

Deckblatt



BUNDESGESELLSCHAFT
FÜR ENDLAGERUNG

Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd. Nr.	Rev.	Blatt: 1
NAAN	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AAAA	AA	NNNN	NN	
9A	65153000				LE	PF	0037	00	Stand: 01.02.2024

Titel der Unterlage:

ERGEBNISSE DER INTERNEN GAMMASPEKTROMETRISCHEN MESSUNGEN VON SALZLÖSUNGEN FÜR DAS JAHR 2021
ANLAGE 1 VON 2 ZUM JAHRESBERICHT 2021 ÜBER DAS RADIOLOGISCHE SALZLÖSUNGSMONITORING IM RAHMEN DES BETRIEBLICHEN STRAHLENSCHUTZES DER SCHACHTANLAGE ASSE II

Ersteller/Unterschrift:

ASE-ST.1/

Prüfer/Unterschrift:

Stempelfeld:

UVST: 12. FEB. 2024 Datum und Unterschrift	bergrechtlich verantwortliche Person: 13. FEB. 2024 Datum und Unterschrift	atomrechtlich verantwortliche Person: Datum und Unterschrift	Bereichsleitung: 15. FEB. 2024 Datum und Unterschrift	Freigabe zur Anwendung: 15. FEB. 2024 Datum und Unterschrift
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Diese Unterlage unterliegt samt Inhalt dem Schutz des Urheberrechts sowie der Pflicht zur vertraulichen Behandlung auch bei Beförderung und Vernichtung und darf vom Empfänger nur auftragsbezogen genutzt, vervielfältigt und Dritten zugänglich gemacht werden. Eine andere Verwendung und Weitergabe bedarf der ausdrücklichen Zustimmung der BGE.



Stand: 01.02.2024

Blatt: 1

DECKBLATT

Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NAAN	NNNNNNNNNN	NNAANN	AANNNA	AANN	AAAA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Kurztitel der Unterlage:

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021

Ersteller / Unterschrift:



Prüfer / Unterschrift:



Titel der Unterlage:

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021

Anlage 1 von 2 zum

Jahresbericht 2021 über das radiologische Salzlösungsmonitoring im Rahmen des betrieblichen Strahlenschutzes der Schachanlage Asse II

Freigabevermerk:

Projekt	PSP Element	Funktion/Thema	Komponente	
9A	65100000			
Baugruppe	Aufgabe	UA	Lfd. Nr.	Rev.
	LE	PF	003700	

Freigabedurchlauf

Fachbereich: ASE-ST

Datum:

07.02.2024

Name:



Unterschrift

Stabsstelle Qualitätssicherung:

Datum:

12. FEB. 2024

Name:



Unterschrift

Endfreigabe: Leiter Bereich Asse

Datum:

15. FEB. 2024

Name:



REVISIONSBLATT

Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NAAN	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AAAA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Kurztitel der Unterlage:

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021

Rev	Revisionsstand Datum	Verantwortl. Stelle	revidierte Blätter	Kat. *)	Erläuterung der Revision
00	01.02.2024	ASE-ST.1	-	-	Ersterstellung

*) Kategorie R = redaktionelle Korrektur, Kategorie V = verdeutlichende Verbesserung, Kategorie S = substantielle Änderung. Mindestens bei der Kategorie S müssen Erläuterungen angegeben werden.

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 3

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Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 4

1 Messergebnisse Laugenmessstelle L553007

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 5

Auswertung des Gammaskopimetrischen: T2101066

Bezugsdatum:	14.01.2021 06:35:00	Detektor:	GMX2
Messdatum:	14.01.2021 12:45:00	Messzeit: (life)	6000.00 s
Alter der Probe:	22200 Sekunden	Messzeit: (real)	6002.34 s
Probenmasse/Volumen:	1	Totzeit:	0.04 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	10.108 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	14.01.2021 14:33:44	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210114/01 PW1879 21/0055	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Wirkungs- grad [%]	Zerfall- konstante [1/a]	z.H.E. [Bq]	Wirkungs- grad [%]
1	BE-7	---	---	---	2,428E+00	5,811E+00
2	K-40	1,176E+03	20,5	2,412E+02	3,336E+00	8,374E+00
3	MN-54	---	---	---	4,123E-01	9,856E-01
4	CO-57	---	---	---	1,741E-01	4,105E-01
5	CO-60	---	---	---	5,574E-01	1,346E+00
6	ZN-65	---	---	---	1,219E+00	2,890E+00
7	SE-75	---	---	---	3,283E-01	7,819E-01
8	SR-85	---	---	---	2,980E-01	7,101E-01
9	Y-88	---	---	---	1,745E-01	5,094E-01
10	NB-94	---	---	---	3,996E-01	9,590E-01
11	RU-106	---	---	---	3,025E+00	7,313E+00
12	AG-108M	---	---	---	4,444E-01	1,069E+00
13	AG-110M	---	---	---	4,061E-01	9,741E-01
14	CD-109	---	---	---	4,488E+00	1,061E+01
15	SN-113	---	---	---	3,599E-01	8,570E-01
16	SB-125	---	---	---	7,834E-01	1,878E+00
17	I-129	---	---	---	4,958E+00	1,286E+01
18	CS-134	---	---	---	3,081E-01	7,431E-01
19	CS-137	---	---	---	3,771E-01	9,045E-01
20	CE-139	---	---	---	1,880E-01	4,449E-01
21	CE-144	---	---	---	1,346E+00	3,177E+00
22	EU-152	---	---	---	7,552E-01	1,808E+00
23	EU-154	---	---	---	1,962E+00	4,704E+00
24	HG-203	---	---	---	2,410E-01	5,708E-01
25	TL-208	---	---	---	3,698E-01	8,876E-01
26	PB-210	---	---	---	6,704E+00	1,662E+01
27	PB-212	---	---	---	4,828E-01	1,135E+00
28	PB-214	---	---	---	5,545E-01	1,327E+00
29	BI-212	---	---	---	5,474E+00	1,311E+01
30	BI-214	---	---	---	7,242E-01	1,736E+00
31	RA-226	---	---	---	4,584E+00	1,082E+01
32	AC-228	---	---	---	1,749E+00	4,181E+00
33	TH-227	---	---	---	1,549E+00	3,865E+00
34	TH-230	---	---	---	5,143E+01	1,277E+02
35	TH-234	---	---	---	5,497E+00	1,445E+01
36	PA-234M	---	---	---	6,432E+01	1,529E+02
37	U-235	---	---	---	1,417E+00	3,338E+00
38	AM-241	---	---	---	5,707E-01	1,372E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 6

Auswertung des Gammaskopimetrischen: T2102082

Bezugsdatum:	18.02.2021 06:40:00	Detektor:	GMX4
Messdatum:	18.02.2021 12:35:00	Messzeit: (life)	3600.00 s
Alter der Probe:	21300 Sekunden	Messzeit: (real)	3601.20 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	13.118 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.02.2021 13:37:45	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210218/01 PW1892 21/0205	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	aktiviert (cps)	effiz. (%)	aktiviert (cps)	BRF (cps)	BRF (cps)
1	BE-7	---	---	---	2,156E+00	5,212E+00
2	K-40	1,212E+03	20,6	2,494E+02	2,635E+00	6,752E+00
3	MN-54	---	---	---	3,272E-01	7,931E-01
4	CO-57	---	---	---	2,013E-01	4,743E-01
5	CO-60	---	---	---	4,649E-01	1,136E+00
6	ZN-65	---	---	---	1,072E+00	2,553E+00
7	SE-75	---	---	---	4,318E-01	1,024E+00
8	SR-85	---	---	---	2,459E-01	5,937E-01
9	Y-88	---	---	---	1,470E-01	4,421E-01
10	NB-94	---	---	---	3,840E-01	9,229E-01
11	RU-106	---	---	---	3,145E+00	7,608E+00
12	AG-108M	---	---	---	4,040E-01	9,820E-01
13	AG-110M	---	---	---	3,326E-01	8,124E-01
14	CD-109	---	---	---	5,213E+00	1,227E+01
15	SN-113	---	---	---	3,410E-01	8,171E-01
16	SB-125	---	---	---	7,063E-01	1,712E+00
17	I-129	---	---	---	6,749E+00	1,695E+01
18	CS-134	---	---	---	3,116E-01	7,545E-01
19	CS-137	---	---	---	3,601E-01	8,664E-01
20	CE-139	---	---	---	2,180E-01	5,164E-01
21	CE-144	---	---	---	1,538E+00	3,629E+00
22	EU-152	---	---	---	6,926E-01	1,679E+00
23	EU-154	---	---	---	1,736E+00	4,209E+00
24	HG-203	---	---	---	2,466E-01	5,837E-01
25	TL-208	---	---	---	3,434E-01	8,325E-01
26	PB-210	---	---	---	8,182E+00	1,984E+01
27	PB-212	---	---	---	4,595E-01	1,087E+00
28	PB-214	---	---	---	6,299E-01	1,502E+00
29	BI-212	---	---	---	5,357E+00	1,285E+01
30	BI-214	---	---	---	6,827E-01	1,647E+00
31	RA-223	---	---	---	4,822E+00	1,155E+01
32	RA-226	---	---	---	4,874E+00	1,154E+01
33	AC-228	---	---	---	1,529E+00	3,681E+00
34	TH-227	---	---	---	1,601E+00	4,018E+00
35	TH-230	---	---	---	6,277E+01	1,542E+02
36	TH-234	---	---	---	6,479E+00	1,684E+01
37	PA-234M	---	---	---	5,247E+01	1,260E+02
38	U-235	---	---	---	1,494E+00	3,530E+00
39	AM-241	---	---	---	6,892E-01	1,636E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 7

Auswertung des Gammaskpektrums: T2103116

Bezugsdatum:	18.03.2021 06:45:00	Detektor:	GMX4
Messdatum:	18.03.2021 14:50:00	Messzeit: (life)	3600.00 s
Alter der Probe:	29100 Sekunden	Messzeit: (real)	3601.27 s
Probenmasse/Volumen:	1	Totzeit:	0.04 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	13.995 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.03.2021 17:29:13	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210318/01 PW1909 21/0371	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Nuklid [g]	Gamma [Bq]	Gamma [Bq]	Gamma [Bq]	ENC [Bq]	MWE [Bq]
1	BE-7	---	---	---	---	2,246E+00	5,414E+00
2	K-40	1,327E+03	20,6	2,730E+02	2,853E+00	7,245E+00	
3	MN-54	---	---	---	3,551E-01	8,561E-01	
4	CO-57	---	---	---	2,083E-01	4,900E-01	
5	CO-60	---	---	---	4,368E-01	1,072E+00	
6	ZN-65	---	---	---	1,091E+00	2,598E+00	
7	SE-75	---	---	---	3,510E-01	8,405E-01	
8	SR-85	---	---	---	2,588E-01	6,228E-01	
9	Y-88	---	---	---	1,440E-01	4,353E-01	
10	NB-94	---	---	---	3,961E-01	9,500E-01	
11	RU-106	---	---	---	2,913E+00	7,083E+00	
12	AG-108M	---	---	---	4,007E-01	9,745E-01	
13	AG-110M	---	---	---	3,358E-01	8,198E-01	
14	CD-109	---	---	---	5,718E+00	1,342E+01	
15	SN-113	---	---	---	3,097E-01	7,465E-01	
16	SB-125	---	---	---	7,348E-01	1,777E+00	
17	I-129	---	---	---	6,545E+00	1,646E+01	
18	CS-134	---	---	---	3,140E-01	7,599E-01	
19	CS-137	---	---	---	3,346E-01	8,089E-01	
20	CE-139	---	---	---	2,356E-01	5,563E-01	
21	CE-144	---	---	---	1,516E+00	3,578E+00	
22	EU-152	---	---	---	8,592E-01	2,055E+00	
23	EU-154	---	---	---	1,708E+00	4,146E+00	
24	HG-203	---	---	---	2,573E-01	6,103E-01	
25	TL-208	---	---	---	3,409E-01	8,268E-01	
26	PB-210	---	---	---	8,307E+00	2,014E+01	
27	PB-212	---	---	---	5,017E-01	1,182E+00	
28	PB-214	---	---	---	5,869E-01	1,405E+00	
29	BI-212	---	---	---	5,290E+00	1,270E+01	
30	BI-214	---	---	---	6,395E-01	1,549E+00	
31	RA-223	---	---	---	5,240E+00	1,250E+01	
32	RA-226	---	---	---	5,022E+00	1,187E+01	
33	AC-228	---	---	---	1,468E+00	3,543E+00	
34	TH-227	---	---	---	1,750E+00	4,375E+00	
35	TH-230	---	---	---	6,747E+01	1,654E+02	
36	TH-234	---	---	---	6,753E+00	1,753E+01	
37	PA-234M	---	---	---	4,909E+01	1,184E+02	
38	U-235	---	---	---	1,618E+00	3,810E+00	
39	AM-241	---	---	---	7,269E-01	1,722E+00	

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 8

Auswertung des Gammaskopimetrischen: T2104062

Bezugsdatum:	15.04.2021 06:52:00	Detektor:	GMX4
Messdatum:	16.04.2021 08:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	1.07 Tage	Messzeit: (real)	3601.23 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	13.582 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.04.2021 09:53:19	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210415/01 PW1924 21/0519	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität (Bq)	E _{eff} (keV)	T _{eff} (min)	ERG (mSv/h)	NWC (Bq/l)
1	BE-7	---	---	---	2,384E+00	5,730E+00
2	K-40	1,313E+03	20,6	2,701E+02	2,324E+00	6,050E+00
3	MN-54	---	---	---	3,483E-01	8,409E-01
4	CO-57	---	---	---	2,028E-01	4,776E-01
5	CO-60	---	---	---	5,138E-01	1,246E+00
6	ZN-65	---	---	---	1,082E+00	2,578E+00
7	SE-75	---	---	---	3,871E-01	9,226E-01
8	SR-85	---	---	---	2,832E-01	6,783E-01
9	Y-88	---	---	---	1,447E-01	4,374E-01
10	NB-94	---	---	---	3,537E-01	8,546E-01
11	RU-106	---	---	---	2,636E+00	6,457E+00
12	AG-108M	---	---	---	4,333E-01	1,048E+00
13	AG-110M	---	---	---	3,427E-01	8,354E-01
14	CD-109	---	---	---	5,330E+00	1,254E+01
15	SN-113	---	---	---	3,546E-01	8,481E-01
16	SB-125	---	---	---	7,183E-01	1,739E+00
17	I-129	---	---	---	6,374E+00	1,604E+01
18	CS-134	---	---	---	2,905E-01	7,069E-01
19	CS-137	---	---	---	3,770E-01	9,046E-01
20	CE-139	---	---	---	2,183E-01	5,171E-01
21	CE-144	---	---	---	1,633E+00	3,843E+00
22	EU-152	---	---	---	7,392E-01	1,784E+00
23	EU-154	---	---	---	1,858E+00	4,486E+00
24	HG-203	---	---	---	2,632E-01	6,238E-01
25	TL-208	---	---	---	3,435E-01	8,326E-01
26	PB-210	---	---	---	8,575E+00	2,077E+01
27	PB-212	---	---	---	5,089E-01	1,198E+00
28	PB-214	---	---	---	5,576E-01	1,339E+00
29	BI-212	---	---	---	4,262E+00	1,039E+01
30	BI-214	---	---	---	6,511E-01	1,575E+00
31	RA-223	---	---	---	5,121E+00	1,223E+01
32	RA-226	---	---	---	4,859E+00	1,150E+01
33	AC-228	---	---	---	1,529E+00	3,682E+00
34	TH-227	---	---	---	1,745E+00	4,361E+00
35	TH-230	---	---	---	6,478E+01	1,590E+02
36	TH-234	---	---	---	6,233E+00	1,622E+01
37	PA-234M	---	---	---	5,954E+01	1,419E+02
38	U-235	---	---	---	1,590E+00	3,747E+00
39	AM-241	---	---	---	6,913E-01	1,641E+00

Bemerkung

Ergebnisse der internen gammasspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 9

Auswertung des Gammaskpektrums: T2105091

Bezugsdatum:	12.05.2021 06:50:00	Detektor:	GMX6
Messdatum:	12.05.2021 12:45:00	Messzeit: (life)	3600.00 s
Alter der Probe:	21300 Sekunden	Messzeit: (real)	3602.36 s
Probenmasse/Volumen:	1	Totzeit:	0.07 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	14.210 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	12.05.2021 13:49:52	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L553007/20210512/01 PW1942 21/0696	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Standard [s]	Standard [s]	Standard [s]	Standard [s]	Standard [s]
1	BE-7	---	---	---	---	2,091E+00	5,046E+00
2	K-40	1,291E+03	20,6	2,656E+02	2,503E+00	6,392E+00	
3	MN-54	---	---	---	---	2,800E-01	6,836E-01
4	CO-57	---	---	---	---	1,721E-01	4,072E-01
5	CO-60	---	---	---	---	4,815E-01	1,167E+00
6	ZN-65	---	---	---	---	1,075E+00	2,552E+00
7	SE-75	---	---	---	---	3,492E-01	8,354E-01
8	SR-85	---	---	---	---	2,389E-01	5,759E-01
9	Y-88	---	---	---	---	1,703E-01	4,864E-01
10	NB-94	---	---	---	---	3,445E-01	8,304E-01
11	RU-106	---	---	---	---	3,074E+00	7,422E+00
12	AG-108M	---	---	---	---	3,845E-01	9,348E-01
13	AG-110M	---	---	---	---	3,092E-01	7,566E-01
14	CD-109	---	---	---	---	4,408E+00	1,043E+01
15	SN-113	---	---	---	---	2,967E-01	7,150E-01
16	SB-125	---	---	---	---	7,057E-01	1,704E+00
17	I-129	---	---	---	---	6,062E+00	1,562E+01
18	CS-134	---	---	---	---	3,089E-01	7,459E-01
19	CS-137	---	---	---	---	2,684E-01	6,567E-01
20	CE-139	---	---	---	---	1,996E-01	4,736E-01
21	CE-144	---	---	---	---	1,401E+00	3,310E+00
22	EU-152	---	---	---	---	8,107E-01	1,941E+00
23	EU-154	---	---	---	---	1,620E+00	3,934E+00
24	HG-203	---	---	---	---	2,337E-01	5,560E-01
25	TL-208	---	---	---	---	3,636E-01	8,753E-01
26	PB-210	---	---	---	---	7,585E+00	1,873E+01
27	PB-212	---	---	---	---	4,723E-01	1,114E+00
28	PB-214	---	---	---	---	5,696E-01	1,363E+00
29	BI-212	---	---	---	---	4,570E+00	1,104E+01
30	BI-214	---	---	---	---	6,218E-01	1,504E+00
31	RA-223	---	---	---	---	4,718E+00	1,129E+01
32	RA-226	---	---	---	---	4,495E+00	1,066E+01
33	AC-228	---	---	---	---	1,449E+00	3,487E+00
34	TH-227	---	---	---	---	1,650E+00	4,128E+00
35	TH-230	---	---	---	---	5,790E+01	1,431E+02
36	TH-234	---	---	---	---	6,060E+00	1,586E+01
37	PA-234M	---	---	---	---	4,885E+01	1,173E+02
38	U-235	---	---	---	---	1,486E+00	3,506E+00
39	AM-241	---	---	---	---	6,712E-01	1,605E+00

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 10

Auswertung des Gammaskopmetrischen: T2106299

Bezugsdatum:	24.06.2021 07:00:00	Detektor:	GMX2
Messdatum:	24.06.2021 21:00:00	Messzeit: (life)	25251.82 s
Alter der Probe:	50400 Sekunden	Messzeit: (real)	25255.60 s
Probenmasse/Volumen:	0,3	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.258 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	25.06.2021 07:14:36	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210624/01 PW1971 21/1067	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität Bq/l	Fehler (%)	Lebenszeit (h)	BITE Bq/l	NW17 Bq/l
1	BE-7	---	---	---	2,340E+00	5,544E+00
2	K-40	5,780E+02	20,6	1,188E+02	4,808E+00	1,152E+01
3	MN-54	---	---	---	3,489E-01	8,312E-01
4	CO-57	---	---	---	1,616E-01	3,790E-01
5	CO-60	---	---	---	4,385E-01	1,059E+00
6	ZN-65	---	---	---	8,662E-01	2,066E+00
7	SE-75	---	---	---	3,594E-01	8,445E-01
8	SR-85	---	---	---	2,705E-01	6,403E-01
9	Y-88	---	---	---	3,395E-01	8,584E-01
10	NB-94	---	---	---	3,574E-01	8,517E-01
11	RU-106	---	---	---	2,886E+00	6,901E+00
12	AG-108M	---	---	---	3,708E-01	8,896E-01
13	AG-110M	---	---	---	3,484E-01	8,321E-01
14	CD-109	---	---	---	4,286E+00	1,007E+01
15	SN-113	---	---	---	3,473E-01	8,192E-01
16	SB-125	---	---	---	7,385E-01	1,754E+00
17	I-129	---	---	---	4,339E+00	1,122E+01
18	CS-134	---	---	---	2,869E-01	6,854E-01
19	CS-137	---	---	---	3,135E-01	7,496E-01
20	CE-139	---	---	---	1,989E-01	4,658E-01
21	CE-144	---	---	---	1,337E+00	3,130E+00
22	EU-152	---	---	---	8,637E-01	2,031E+00
23	EU-154	---	---	---	1,626E+00	3,888E+00
24	HG-203	---	---	---	2,404E-01	5,640E-01
25	TL-208	---	---	---	3,847E-01	9,103E-01
26	PB-210	---	---	---	5,734E+00	1,418E+01
27	PB-212	---	---	---	4,874E-01	1,136E+00
28	PB-214	---	---	---	5,786E-01	1,366E+00
29	BI-212	---	---	---	4,884E+00	1,162E+01
30	BI-214	---	---	---	8,008E-01	1,888E+00
31	RA-226	---	---	---	5,078E+00	1,185E+01
32	AC-228	---	---	---	1,550E+00	3,682E+00
33	TH-227	---	---	---	1,580E+00	3,904E+00
34	TH-230	---	---	---	4,466E+01	1,106E+02
35	TH-234	---	---	---	5,782E+00	1,509E+01
36	PA-234M	---	---	---	5,113E+01	1,215E+02
37	U-235	---	---	---	1,343E+00	3,145E+00
38	AM-241	---	---	---	4,985E-01	1,195E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 11

Auswertung des Gammaskopimetrischen: T2107120

Bezugsdatum:	15.07.2021 06:50:00	Detektor:	GMX6
Messdatum:	15.07.2021 12:45:00	Messzeit: (life)	66200.00 s
Alter der Probe:	21300 Sekunden	Messzeit: (real)	66215.85 s
Probenmasse/Volumen:	0,1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	2.876 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_LO2.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	16.07.2021 07:53:12	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L553007/20210715/01 PW1996 21/1242	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	MINIM [Bq/l]	PAULI [Bq]	THOR [Bq]	KGC [Bq/l]	MWG [Bq/l]
1	BE-7	---	---	---	2,284E+00	5,323E+00
2	K-40	1,376E+03	20,6	2,828E+02	3,652E+00	8,640E+00
3	MN-54	---	---	---	3,320E-01	7,763E-01
4	CO-57	---	---	---	1,739E-01	4,017E-01
5	CO-60	---	---	---	4,264E-01	1,006E+00
6	ZN-65	---	---	---	9,767E-01	2,271E+00
7	SE-75	---	---	---	3,871E-01	8,995E-01
8	SR-85	---	---	---	2,787E-01	6,478E-01
9	Y-88	---	---	---	3,123E-01	7,604E-01
10	NB-94	---	---	---	3,262E-01	7,637E-01
11	RU-106	---	---	---	2,940E+00	6,896E+00
12	AG-108M	---	---	---	3,918E-01	9,211E-01
13	AG-110M	---	---	---	3,566E-01	8,369E-01
14	CD-109	---	---	---	4,586E+00	1,058E+01
15	SN-113	---	---	---	3,459E-01	8,037E-01
16	SB-125	---	---	---	7,452E-01	1,740E+00
17	I-129	---	---	---	3,979E+00	9,398E+00
18	CS-134	---	---	---	3,219E-01	7,527E-01
19	CS-137	---	---	---	3,114E-01	7,291E-01
20	CE-139	---	---	---	2,082E-01	4,819E-01
21	CE-144	---	---	---	1,404E+00	3,244E+00
22	EU-152	---	---	---	8,539E-01	1,985E+00
23	EU-154	---	---	---	1,659E+00	3,894E+00
24	HG-203	---	---	---	2,827E-01	6,522E-01
25	TL-208	---	---	---	3,576E-01	8,365E-01
26	PB-210	---	---	---	5,936E+00	1,387E+01
27	PB-212	---	---	---	4,447E-01	1,028E+00
28	PB-214	---	---	---	6,182E-01	1,435E+00
29	BI-212	---	---	---	4,259E+00	9,989E+00
30	BI-214	---	---	---	7,399E-01	1,723E+00
31	RA-223	---	---	---	5,313E+00	1,232E+01
32	RA-226	---	---	---	4,949E+00	1,143E+01
33	AC-228	---	---	---	1,344E+00	3,147E+00
34	TH-227	---	---	---	1,725E+00	4,214E+00
35	TH-230	---	---	---	4,902E+01	1,181E+02
36	TH-234	---	---	---	5,063E+00	1,287E+01
37	PA-234M	---	---	---	4,637E+01	1,084E+02
38	U-235	---	---	---	1,431E+00	3,306E+00
39	AM-241	---	---	---	5,356E-01	1,242E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 12

Auswertung des Gammaskopimetrischen: T2108084

Bezugsdatum:	12.08.2021 06:45:00	Detektor:	GMX2
Messdatum:	16.08.2021 08:15:00	Messzeit: (life)	35600.00 s
Alter der Probe:	4.06 Tage	Messzeit: (real)	35606.28 s
Probenmasse/Volumen:	0,25	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.997 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L00.ABS vom 02.08.2013 14:01:53	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.08.2021 18:41:40	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210812/01 PW2026 21/1491	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (Bq)	Isotop (%)	Isotop (Bq)	EBW (Bq)	MWE (Bq)
1	BE-7	---	---	---	2,629E+00	6,160E+00
2	K-40	1,174E+03	20,5	2,406E+02	4,767E+00	1,132E+01
3	MN-54	---	---	---	3,965E-01	9,315E-01
4	CO-57	---	---	---	1,754E-01	4,058E-01
5	CO-60	---	---	---	5,022E-01	1,192E+00
6	ZN-65	---	---	---	1,145E+00	2,677E+00
7	SE-75	---	---	---	3,922E-01	9,130E-01
8	SR-85	---	---	---	3,029E-01	7,093E-01
9	Y-88	---	---	---	3,164E-01	7,935E-01
10	NB-94	---	---	---	3,772E-01	8,889E-01
11	RU-106	---	---	---	3,329E+00	7,842E+00
12	AG-108M	---	---	---	4,233E-01	1,000E+00
13	AG-110M	---	---	---	3,855E-01	9,092E-01
14	CD-109	---	---	---	4,387E+00	1,013E+01
15	SN-113	---	---	---	3,760E-01	8,782E-01
16	SB-125	---	---	---	8,271E-01	1,939E+00
17	I-129	---	---	---	4,247E+00	9,817E+00
18	CS-134	---	---	---	3,580E-01	8,398E-01
19	CS-137	---	---	---	3,812E-01	8,952E-01
20	CE-139	---	---	---	2,009E-01	4,665E-01
21	CE-144	---	---	---	1,339E+00	3,104E+00
22	EU-152	---	---	---	8,482E-01	1,981E+00
23	EU-154	---	---	---	1,822E+00	4,295E+00
24	HG-203	---	---	---	2,700E-01	6,276E-01
25	TL-208	---	---	---	3,876E-01	9,100E-01
26	PB-210	---	---	---	5,796E+00	1,336E+01
27	PB-212	---	---	---	4,984E-01	1,153E+00
28	PB-214	---	---	---	6,605E-01	1,540E+00
29	BI-212	---	---	---	5,073E+00	1,195E+01
30	BI-214	---	---	---	8,796E-01	2,053E+00
31	RA-226	---	---	---	5,443E+00	1,258E+01
32	AC-228	---	---	---	1,703E+00	3,998E+00
33	TH-227	---	---	---	1,637E+00	4,010E+00
34	TH-230	---	---	---	4,933E+01	1,184E+02
35	TH-234	---	---	---	5,682E+00	1,433E+01
36	PA-234M	---	---	---	5,784E+01	1,357E+02
37	U-235	---	---	---	1,490E+00	3,447E+00
38	AM-241	---	---	---	5,201E-01	1,200E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 13

Auswertung des Gammaskopimetrischen: T2109088

Bezugsdatum:	16.09.2021 06:45:00	Detektor:	GMX2
Messdatum:	16.09.2021 12:15:00	Messzeit: (life)	5400.00 s
Alter der Probe:	19800 Sekunden	Messzeit: (real)	5402.35 s
Probenmasse/Volumen:	1	Totzeit:	0.04 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	10.857 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.09.2021 13:46:14	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L553007/20210916/01 PW2040 21/1653	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität [Bq]	Effiz. (%)	Erhöhter Anteil (%)	UNSICHTBAR [Bq]	NWZ [Bq]
1	BE-7	---	---	---	2,311E+00	5,585E+00
2	K-40	1,306E+03	20,5	2,679E+02	3,671E+00	9,225E+00
3	MN-54	---	---	---	4,060E-01	9,778E-01
4	CO-57	---	---	---	1,841E-01	4,350E-01
5	CO-60	---	---	---	4,972E-01	1,220E+00
6	ZN-65	---	---	---	1,371E+00	3,248E+00
7	SE-75	---	---	---	3,791E-01	9,012E-01
8	SR-85	---	---	---	2,490E-01	6,037E-01
9	Y-88	---	---	---	2,168E-01	6,178E-01
10	NB-94	---	---	---	4,185E-01	1,008E+00
11	RU-106	---	---	---	3,187E+00	7,733E+00
12	AG-108M	---	---	---	4,544E-01	1,099E+00
13	AG-110M	---	---	---	3,968E-01	9,593E-01
14	CD-109	---	---	---	4,757E+00	1,126E+01
15	SN-113	---	---	---	3,769E-01	9,004E-01
16	SB-125	---	---	---	7,950E-01	1,916E+00
17	I-129	---	---	---	5,243E+00	1,362E+01
18	CS-134	---	---	---	3,356E-01	8,103E-01
19	CS-137	---	---	---	3,561E-01	8,631E-01
20	CE-139	---	---	---	2,012E-01	4,768E-01
21	CE-144	---	---	---	1,485E+00	3,506E+00
22	EU-152	---	---	---	8,785E-01	2,098E+00
23	EU-154	---	---	---	1,977E+00	4,766E+00
24	HG-203	---	---	---	2,672E-01	6,328E-01
25	TL-208	---	---	---	4,145E-01	9,945E-01
26	PB-210	---	---	---	7,258E+00	1,800E+01
27	PB-212	---	---	---	5,097E-01	1,200E+00
28	PB-214	---	---	---	6,647E-01	1,584E+00
29	BI-212	---	---	---	5,639E+00	1,357E+01
30	BI-214	---	---	---	7,919E-01	1,900E+00
31	RA-226	---	---	---	5,430E+00	1,278E+01
32	AC-228	---	---	---	1,868E+00	4,475E+00
33	TH-227	---	---	---	1,739E+00	4,337E+00
34	TH-230	---	---	---	5,766E+01	1,431E+02
35	TH-234	---	---	---	6,056E+00	1,593E+01
36	PA-234M	---	---	---	5,921E+01	1,423E+02
37	U-235	---	---	---	1,526E+00	3,600E+00
38	AM-241	---	---	---	6,232E-01	1,499E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 14

Auswertung des Gammaskopimetrischen: T2110087

Bezugsdatum:	14.10.2021 06:46:00	Detektor:	GMX6
Messdatum:	14.10.2021 13:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	24240 Sekunden	Messzeit: (real)	3602.18 s
Probenmasse/Volumen:	0,9	Totzeit:	0.06 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	13.230 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	14.10.2021 15:10:08	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L553007/20211014/01 PW2055 21/1812	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AKTIVITÄT [Bq]	REINHEIT [%]	REINHEIT [keV]	UNTERSCHWELLE [Bq]	UNTERSCHWELLE [keV]
1	BE-7	---	---	---	1,996E+00	4,870E+00
2	K-40	1,343E+03	20,6	2,763E+02	2,385E+00	6,209E+00
3	MN-54	---	---	---	3,263E-01	7,938E-01
4	CO-57	---	---	---	1,896E-01	4,486E-01
5	CO-60	---	---	---	5,028E-01	1,224E+00
6	ZN-65	---	---	---	1,180E+00	2,803E+00
7	SE-75	---	---	---	3,860E-01	9,237E-01
8	SR-85	---	---	---	2,854E-01	6,848E-01
9	Y-88	---	---	---	1,692E-01	4,954E-01
10	NB-94	---	---	---	3,454E-01	8,385E-01
11	RU-106	---	---	---	2,986E+00	7,275E+00
12	AG-108M	---	---	---	3,886E-01	9,514E-01
13	AG-110M	---	---	---	3,865E-01	9,378E-01
14	CD-109	---	---	---	4,519E+00	1,073E+01
15	SN-113	---	---	---	3,148E-01	7,610E-01
16	SB-125	---	---	---	7,596E-01	1,838E+00
17	I-129	---	---	---	6,697E+00	1,726E+01
18	CS-134	---	---	---	3,595E-01	8,656E-01
19	CS-137	---	---	---	3,082E-01	7,522E-01
20	CE-139	---	---	---	2,296E-01	5,440E-01
21	CE-144	---	---	---	1,507E+00	3,568E+00
22	EU-152	---	---	---	8,812E-01	2,112E+00
23	EU-154	---	---	---	1,655E+00	4,042E+00
24	HG-203	---	---	---	2,417E-01	5,772E-01
25	TL-208	---	---	---	3,299E-01	8,050E-01
26	PB-210	---	---	---	8,597E+00	2,121E+01
27	PB-212	---	---	---	4,766E-01	1,129E+00
28	PB-214	---	---	---	6,141E-01	1,472E+00
29	BI-212	---	---	---	5,239E+00	1,263E+01
30	BI-214	---	---	---	6,962E-01	1,683E+00
31	RA-223	---	---	---	4,955E+00	1,190E+01
32	RA-226	---	---	---	4,937E+00	1,172E+01
33	AC-228	---	---	---	1,428E+00	3,463E+00
34	TH-227	---	---	---	1,779E+00	4,457E+00
35	TH-230	---	---	---	5,996E+01	1,486E+02
36	TH-234	---	---	---	6,315E+00	1,657E+01
37	PA-234M	---	---	---	5,702E+01	1,366E+02
38	U-235	---	---	---	1,507E+00	3,570E+00
39	AM-241	---	---	---	7,316E-01	1,751E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 15

Auswertung des Gammaskopimetrischen: T2111123

Bezugsdatum:	18.11.2021 07:00:00	Detektor:	GMX6
Messdatum:	18.11.2021 15:45:00	Messzeit: (life)	57600.00 s
Alter der Probe:	31500 Sekunden	Messzeit: (real)	57610.01 s
Probenmasse/Volumen:	0,1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	1.616 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2110T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	19.11.2021 08:09:24	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L553007/20211118/01 PW2070 21/1987	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AMW/M [g/l]	Erhöht [µBq]	Faktor [µBq]	Erhöht [Bq]	AMW [g/l]	MW/ [g/l]
1	BE-7	---	---	---	---	2,128E+00	5,005E+00
2	K-40	3,400E+01	22,6	7,700E+00	3,574E+00	8,532E+00	8,532E+00
3	MN-54	---	---	---	2,622E-01	6,238E-01	6,238E-01
4	CO-57	---	---	---	1,584E-01	3,694E-01	3,694E-01
5	CO-60	---	---	---	2,802E-01	6,828E-01	6,828E-01
6	ZN-65	---	---	---	5,412E-01	1,301E+00	1,301E+00
7	SE-75	---	---	---	3,390E-01	7,954E-01	7,954E-01
8	SR-85	---	---	---	2,400E-01	5,642E-01	5,642E-01
9	Y-88	---	---	---	3,237E-01	7,956E-01	7,956E-01
10	NB-94	---	---	---	2,662E-01	6,338E-01	6,338E-01
11	RU-106	---	---	---	2,757E+00	6,528E+00	6,528E+00
12	AG-108M	---	---	---	3,218E-01	7,688E-01	7,688E-01
13	AG-110M	---	---	---	3,247E-01	7,703E-01	7,703E-01
14	CD-109	---	---	---	4,269E+00	9,962E+00	9,962E+00
15	SN-113	---	---	---	3,523E-01	8,229E-01	8,229E-01
16	SB-125	---	---	---	7,035E-01	1,657E+00	1,657E+00
17	I-129	---	---	---	4,521E+00	1,157E+01	1,157E+01
18	CS-134	---	---	---	3,104E-01	7,314E-01	7,314E-01
19	CS-137	---	---	---	2,905E-01	6,871E-01	6,871E-01
20	CE-139	---	---	---	2,106E-01	4,901E-01	4,901E-01
21	CE-144	---	---	---	1,396E+00	3,247E+00	3,247E+00
22	EU-152	---	---	---	8,074E-01	1,891E+00	1,891E+00
23	EU-154	---	---	---	1,369E+00	3,265E+00	3,265E+00
24	HG-203	---	---	---	2,526E-01	5,875E-01	5,875E-01
25	TL-208	---	---	---	3,360E-01	7,927E-01	7,927E-01
26	PB-210	---	---	---	5,779E+00	1,417E+01	1,417E+01
27	PB-212	---	---	---	4,483E-01	1,042E+00	1,042E+00
28	PB-214	---	---	---	6,424E-01	1,497E+00	1,497E+00
29	BI-212	---	---	---	3,717E+00	8,838E+00	8,838E+00
30	BI-214	---	---	---	7,712E-01	1,803E+00	1,803E+00
31	RA-223	---	---	---	4,653E+00	1,090E+01	1,090E+01
32	RA-226	---	---	---	4,991E+00	1,159E+01	1,159E+01
33	AC-228	---	---	---	1,155E+00	2,742E+00	2,742E+00
34	TH-227	---	---	---	1,424E+00	3,516E+00	3,516E+00
35	TH-230	---	---	---	4,640E+01	1,138E+02	1,138E+02
36	TH-234	---	---	---	4,703E+00	1,223E+01	1,223E+01
37	PA-234M	---	---	---	3,013E+01	7,243E+01	7,243E+01
38	U-235	---	---	---	1,268E+00	2,957E+00	2,957E+00
39	AM-241	---	---	---	5,040E-01	1,198E+00	1,198E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 16

2 Messergebnisse Laugenmessstelle L658008

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 17

Auswertung des Gammaskopimetrischen: T2101041

Bezugsdatum:	08.01.2021 12:00:00	Detektor:	GMX6
Messdatum:	08.01.2021 16:00:00	Messzeit: (life)	242000.00 s
Alter der Probe:	14400 Sekunden	Messzeit: (real)	242031.35 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	1.930 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2008T6.NUL	Halbwertsbreite:	1.12 keV - 2.10 keV
Auswertedatum:	11.01.2021 12:19:12	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L658008/20210108/01 Kontrolle CS-137 21/0036	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Effizien [%]	Gamma [Bq]	BW [keV]	NW [Bq]
1	BE-7	---	---	---	4,917E-01	1,128E+00
2	K-40	9,475E+01	20,5	1,943E+01	9,252E-01	2,128E+00
3	MN-54	---	---	---	5,709E-02	1,317E-01
4	CO-57	---	---	---	4,285E-02	9,780E-02
5	CO-60	---	---	---	6,071E-02	1,412E-01
6	ZN-65	---	---	---	1,313E-01	3,033E-01
7	SE-75	---	---	---	8,576E-02	1,964E-01
8	SR-85	---	---	---	7,127E-02	1,629E-01
9	Y-88	---	---	---	5,541E-02	1,304E-01
10	NB-94	---	---	---	7,180E-02	1,649E-01
11	RU-106	---	---	---	5,924E-01	1,365E+00
12	AG-108M	---	---	---	6,525E-02	1,510E-01
13	AG-110M	---	---	---	6,071E-02	1,403E-01
14	CD-109	---	---	---	1,319E+00	3,005E+00
15	SN-113	---	---	---	7,689E-02	1,761E-01
16	SB-125	---	---	---	1,704E-01	3,915E-01
17	I-129	---	---	---	9,581E-01	2,230E+00
18	CS-134	---	---	---	6,388E-02	1,468E-01
19	CS-137	---	---	---	6,330E-02	1,456E-01
20	CE-139	---	---	---	5,181E-02	1,185E-01
21	CE-144	---	---	---	3,485E-01	7,959E-01
22	EU-152	---	---	---	1,902E-01	4,356E-01
23	EU-154	---	---	---	2,828E-01	6,529E-01
24	HG-203	---	---	---	7,984E-02	1,818E-01
25	TL-208	8,824E-01	21,7	1,915E-01	8,854E-02	2,028E-01
26	PB-210	---	---	---	1,665E+00	3,834E+00
27	PB-212	2,841E+00	20,7	5,867E-01	1,035E-01	2,364E-01
28	PB-214	1,467E+00	21,4	3,141E-01	1,784E-01	4,071E-01
29	BI-212	2,756E+00	27,5	7,573E-01	7,819E-01	1,805E+00
30	BI-214	1,299E+00	22,4	2,909E-01	2,146E-01	4,894E-01
31	RA-226	---	---	---	1,431E+00	3,261E+00
32	AC-228	6,567E-01	25,2	1,653E-01	2,164E-01	5,004E-01
33	TH-227	---	---	---	3,865E-01	9,317E-01
34	TH-230	---	---	---	1,718E+01	4,078E+01
35	TH-234	---	---	---	1,450E+00	3,638E+00
36	PA-234M	---	---	---	6,967E+00	1,612E+01
37	U-235	---	---	---	3,470E-01	7,920E-01
38	AM-241	---	---	---	1,352E-01	3,097E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 18
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2101073

Bezugsdatum:	14.01.2021 06:50:00	Detektor:	GMX4
Messdatum:	14.01.2021 18:50:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.87 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.023 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	15.01.2021 08:40:24	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210114/01 PW1878 21/0054	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AKTIVITÄT (Bq)	FEHLER (Bq)	FEHLER (%)	ZITG (min)	DWTG (min)
1	BE-7	---	---	---	3,299E-01	7,744E-01
2	K-40	9,563E+01	20,6	1,968E+01	5,325E-01	1,272E+00
3	MN-54	---	---	---	4,746E-02	1,118E-01
4	CO-57	---	---	---	2,993E-02	6,916E-02
5	CO-60	---	---	---	5,733E-02	1,369E-01
6	ZN-65	---	---	---	1,225E-01	2,883E-01
7	SE-75	---	---	---	6,027E-02	1,405E-01
8	SR-85	---	---	---	4,491E-02	1,047E-01
9	Y-88	---	---	---	4,500E-02	1,113E-01
10	NB-94	---	---	---	4,624E-02	1,092E-01
11	RU-106	---	---	---	4,442E-01	1,048E+00
12	AG-108M	---	---	---	5,573E-02	1,320E-01
13	AG-110M	---	---	---	5,344E-02	1,261E-01
14	CD-109	---	---	---	7,228E-01	1,668E+00
15	SN-113	---	---	---	5,015E-02	1,173E-01
16	SB-125	---	---	---	1,125E-01	2,642E-01
17	I-129	---	---	---	7,211E-01	1,667E+00
18	CS-134	---	---	---	4,436E-02	1,047E-01
19	CS-137	---	---	---	4,884E-02	1,148E-01
20	CE-139	---	---	---	3,248E-02	7,543E-02
21	CE-144	---	---	---	2,318E-01	5,363E-01
22	EU-152	---	---	---	1,270E-01	2,967E-01
23	EU-154	---	---	---	2,353E-01	5,569E-01
24	HG-203	---	---	---	4,125E-02	9,563E-02
25	TL-208	8,529E-01	21,5	1,831E-01	4,992E-02	1,177E-01
26	PB-210	---	---	---	9,442E-01	2,177E+00
27	PB-212	2,347E+00	20,7	4,869E-01	6,452E-02	1,499E-01
28	PB-214	9,789E-01	21,8	2,133E-01	9,431E-02	2,198E-01
29	BI-212	2,381E+00	26,2	6,236E-01	6,147E-01	1,454E+00
30	BI-214	8,808E-01	22,4	1,970E-01	9,878E-02	2,322E-01
31	RA-223	---	---	---	7,947E-01	1,852E+00
32	RA-226	---	---	---	8,130E-01	1,881E+00
33	AC-228	6,704E-01	23,7	1,592E-01	1,730E-01	4,104E-01
34	TH-227	---	---	---	2,544E-01	6,242E-01
35	TH-230	---	---	---	9,482E+00	2,267E+01
36	TH-234	---	---	---	9,348E-01	2,357E+00
37	PA-234M	---	---	---	6,138E+00	1,451E+01
38	U-235	---	---	---	2,407E-01	5,566E-01
39	AM-241	---	---	---	9,565E-02	2,200E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 19

Auswertung des Gammaskopimetrischen: T2101115

Bezugsdatum:	21.01.2021 07:30:00	Detektor:	GMX4
Messdatum:	21.01.2021 19:30:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.20 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.204 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	22.01.2021 09:35:38	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210121/01 PW1882 21/0102	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Faktor (%)	Faktor (Bq)	Energie (keV)	FWHM (keV)
1	BE-7	---	---	---	3,550E-01	8,310E-01
2	K-40	9,425E+01	20,6	1,940E+01	5,077E-01	1,216E+00
3	MN-54	---	---	---	4,773E-02	1,124E-01
4	CO-57	---	---	---	3,053E-02	7,053E-02
5	CO-60	---	---	---	5,531E-02	1,324E-01
6	ZN-65	---	---	---	1,190E-01	2,804E-01
7	SE-75	---	---	---	5,753E-02	1,343E-01
8	SR-85	---	---	---	4,137E-02	9,671E-02
9	Y-88	---	---	---	5,179E-02	1,267E-01
10	NB-94	---	---	---	4,669E-02	1,102E-01
11	RU-106	---	---	---	4,454E-01	1,050E+00
12	AG-108M	---	---	---	5,555E-02	1,316E-01
13	AG-110M	---	---	---	5,300E-02	1,251E-01
14	CD-109	---	---	---	7,443E-01	1,717E+00
15	SN-113	---	---	---	5,311E-02	1,239E-01
16	SB-125	---	---	---	1,219E-01	2,855E-01
17	I-129	---	---	---	7,697E-01	1,777E+00
18	CS-134	---	---	---	5,045E-02	1,184E-01
19	CS-137	---	---	---	4,576E-02	1,079E-01
20	CE-139	---	---	---	3,435E-02	7,966E-02
21	CE-144	---	---	---	2,371E-01	5,485E-01
22	EU-152	---	---	---	1,328E-01	3,098E-01
23	EU-154	---	---	---	2,334E-01	5,524E-01
24	HG-203	---	---	---	4,053E-02	9,401E-02
25	TL-208	7,843E-01	21,7	1,700E-01	5,177E-02	1,219E-01
26	PB-210	---	---	---	9,249E-01	2,133E+00
27	PB-212	2,090E+00	20,9	4,365E-01	6,969E-02	1,616E-01
28	PB-214	9,343E-01	22,1	2,065E-01	9,952E-02	2,316E-01
29	BI-212	1,972E+00	31,6	6,239E-01	6,725E-01	1,584E+00
30	BI-214	1,008E+00	22,3	2,246E-01	1,148E-01	2,684E-01
31	RA-223	---	---	---	8,016E-01	1,868E+00
32	RA-226	---	---	---	8,452E-01	1,954E+00
33	AC-228	4,656E-01	30,5	1,421E-01	1,970E-01	4,646E-01
34	TH-227	---	---	---	2,602E-01	6,381E-01
35	TH-230	---	---	---	9,535E+00	2,280E+01
36	TH-234	---	---	---	9,159E-01	2,310E+00
37	PA-234M	---	---	---	6,075E+00	1,437E+01
38	U-235	---	---	---	2,459E-01	5,684E-01
39	AM-241	---	---	---	9,431E-02	2,170E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 20

Auswertung des Gammaskopimetrischen: T2101154

Bezugsdatum:	28.01.2021 19:20:00	Detektor:	GMX4
Messdatum:	28.01.2021 19:20:00	Messzeit: (life)	43200.00 s
Alter der Probe:	0 Sekunden	Messzeit: (real)	43204.97 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.049 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	29.01.2021 10:20:52	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210128/01 PW1884 21/0133	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	aktivität [dpm]	Anteil [%]	Reinheit [%]	BKG [dpm]	NWZ [dpm]
1	BE-7	---	---	---	3,487E-01	8,165E-01
2	K-40	9,263E+01	20,6	1,907E+01	5,030E-01	1,205E+00
3	MN-54	---	---	---	4,631E-02	1,092E-01
4	CO-57	---	---	---	2,971E-02	6,867E-02
5	CO-60	---	---	---	5,500E-02	1,317E-01
6	ZN-65	---	---	---	1,147E-01	2,705E-01
7	SE-75	---	---	---	5,826E-02	1,359E-01
8	SR-85	---	---	---	4,228E-02	9,875E-02
9	Y-88	---	---	---	4,664E-02	1,150E-01
10	NB-94	---	---	---	4,180E-02	9,920E-02
11	RU-106	---	---	---	4,219E-01	9,971E-01
12	AG-108M	---	---	---	5,651E-02	1,338E-01
13	AG-110M	---	---	---	5,293E-02	1,250E-01
14	CD-109	---	---	---	7,844E-01	1,807E+00
15	SN-113	---	---	---	5,276E-02	1,231E-01
16	SB-125	---	---	---	1,209E-01	2,831E-01
17	I-129	---	---	---	7,452E-01	1,722E+00
18	CS-134	---	---	---	4,537E-02	1,069E-01
19	CS-137	---	---	---	4,884E-02	1,148E-01
20	CE-139	---	---	---	3,363E-02	7,803E-02
21	CE-144	---	---	---	2,427E-01	5,611E-01
22	EU-152	---	---	---	1,295E-01	3,024E-01
23	EU-154	---	---	---	2,414E-01	5,707E-01
24	HG-203	---	---	---	3,811E-02	8,852E-02
25	TL-208	7,035E-01	21,6	1,517E-01	5,030E-02	1,186E-01
26	PB-210	---	---	---	9,014E-01	2,080E+00
27	PB-212	2,182E+00	20,8	4,539E-01	6,591E-02	1,531E-01
28	PB-214	8,786E-01	21,7	1,907E-01	9,199E-02	2,146E-01
29	BI-212	2,540E+00	28,9	7,329E-01	6,681E-01	1,574E+00
30	BI-214	8,985E-01	22,0	1,978E-01	1,020E-01	2,395E-01
31	RA-223	---	---	---	7,618E-01	1,778E+00
32	RA-226	---	---	---	8,194E-01	1,896E+00
33	AC-228	3,968E-01	27,5	1,093E-01	1,858E-01	4,394E-01
34	TH-227	---	---	---	2,489E-01	6,110E-01
35	TH-230	---	---	---	9,910E+00	2,368E+01
36	TH-234	---	---	---	9,452E-01	2,383E+00
37	PA-234M	---	---	---	6,222E+00	1,470E+01
38	U-235	---	---	---	2,371E-01	5,485E-01
39	AM-241	---	---	---	9,606E-02	2,209E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 21

Auswertung des Gammaskpektrums: T2102031

Bezugsdatum:	04.02.2021 07:15:00	Detektor:	GMX4
Messdatum:	04.02.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.77 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.900 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	05.02.2021 09:30:29	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210204/01 PW1887 21/0164 Marinelli entspricht nicht der Geometrie	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität (Bq)	Faktor (dpm)	Faktor (cpm)	BKG (dpm)	FWHM (dpm)
1	BE-7	---	---	---	3,435E-01	9,170E-01
2	K-40	8,478E+01	28,7	2,429E+01	4,879E-01	1,334E+00
3	MN-54	---	---	---	4,479E-02	1,205E-01
4	CO-57	---	---	---	2,946E-02	7,758E-02
5	CO-60	---	---	---	5,761E-02	1,567E-01
6	ZN-65	---	---	---	1,244E-01	3,331E-01
7	SE-75	---	---	---	5,538E-02	1,475E-01
8	SR-85	---	---	---	3,549E-02	9,506E-02
9	Y-88	---	---	---	4,620E-02	1,300E-01
10	NB-94	---	---	---	4,455E-02	1,200E-01
11	RU-106	---	---	---	4,394E-01	1,181E+00
12	AG-108M	---	---	---	5,325E-02	1,441E-01
13	AG-110M	---	---	---	5,059E-02	1,364E-01
14	CD-109	---	---	---	7,399E-01	1,944E+00
15	SN-113	---	---	---	5,272E-02	1,402E-01
16	SB-125	---	---	---	1,163E-01	3,108E-01
17	I-129	---	---	---	7,205E-01	1,898E+00
18	CS-134	---	---	---	4,855E-02	1,300E-01
19	CS-137	---	---	---	4,951E-02	1,325E-01
20	CE-139	---	---	---	3,444E-02	9,101E-02
21	CE-144	---	---	---	2,288E-01	6,035E-01
22	EU-152	---	---	---	1,244E-01	3,313E-01
23	EU-154	---	---	---	2,278E-01	6,151E-01
24	HG-203	---	---	---	3,868E-02	1,023E-01
25	TL-208	7,337E-01	29,6	2,169E-01	4,796E-02	1,291E-01
26	PB-210	---	---	---	9,198E-01	2,417E+00
27	PB-212	2,197E+00	28,8	6,335E-01	6,553E-02	1,734E-01
28	PB-214	8,909E-01	29,5	2,631E-01	9,297E-02	2,470E-01
29	BI-212	2,375E+00	35,0	8,303E-01	6,620E-01	1,777E+00
30	BI-214	8,022E-01	30,5	2,449E-01	1,073E-01	2,864E-01
31	RA-223	---	---	---	8,016E-01	2,128E+00
32	RA-226	---	---	---	7,421E-01	1,961E+00
33	AC-228	---	---	---	1,747E-01	4,719E-01
34	TH-227	---	---	---	2,527E-01	7,121E-01
35	TH-230	---	---	---	9,278E+00	2,543E+01
36	TH-234	---	---	---	8,974E-01	2,615E+00
37	PA-234M	---	---	---	5,725E+00	1,547E+01
38	U-235	---	---	---	2,355E-01	6,206E-01
39	AM-241	---	---	---	9,618E-02	2,519E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 22

Auswertung des Gammaskopimetrischen: T2102046

Bezugsdatum:	11.02.2021 07:10:00	Detektor:	GMX4
Messdatum:	11.02.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.71 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.864 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.02.2021 07:54:32	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210211/01 PW1888 21/0175	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Amplitude [cpd]	Peak [keV]	Peak [keV]	BRG [cpd]	NWA [cpd]
1	BE-7	---	---	---	3,148E-01	7,404E-01
2	K-40	9,400E+01	20,5	1,931E+01	5,036E-01	1,206E+00
3	MN-54	---	---	---	4,479E-02	1,058E-01
4	CO-57	---	---	---	2,802E-02	6,486E-02
5	CO-60	---	---	---	5,761E-02	1,376E-01
6	ZN-65	---	---	---	1,226E-01	2,884E-01
7	SE-75	---	---	---	5,478E-02	1,280E-01
8	SR-85	---	---	---	4,163E-02	9,729E-02
9	Y-88	---	---	---	4,439E-02	1,099E-01
10	NB-94	---	---	---	4,521E-02	1,069E-01
11	RU-106	---	---	---	4,430E-01	1,045E+00
12	AG-108M	---	---	---	5,421E-02	1,286E-01
13	AG-110M	---	---	---	5,044E-02	1,193E-01
14	CD-109	---	---	---	7,198E-01	1,661E+00
15	SN-113	---	---	---	5,005E-02	1,170E-01
16	SB-125	---	---	---	1,110E-01	2,608E-01
17	I-129	---	---	---	7,116E-01	1,646E+00
18	CS-134	---	---	---	4,310E-02	1,018E-01
19	CS-137	---	---	---	4,633E-02	1,092E-01
20	CE-139	---	---	---	3,099E-02	7,206E-02
21	CE-144	---	---	---	2,251E-01	5,212E-01
22	EU-152	---	---	---	1,223E-01	2,861E-01
23	EU-154	---	---	---	2,268E-01	5,377E-01
24	HG-203	---	---	---	3,800E-02	8,830E-02
25	TL-208	7,342E-01	21,6	1,584E-01	5,158E-02	1,215E-01
26	PB-210	---	---	---	9,210E-01	2,124E+00
27	PB-212	2,104E+00	20,8	4,384E-01	6,620E-02	1,537E-01
28	PB-214	7,435E-01	22,2	1,647E-01	9,411E-02	2,194E-01
29	BI-212	2,171E+00	29,4	6,376E-01	6,517E-01	1,537E+00
30	BI-214	7,432E-01	23,1	1,719E-01	9,643E-02	2,269E-01
31	RA-223	---	---	---	7,356E-01	1,719E+00
32	RA-226	---	---	---	7,636E-01	1,769E+00
33	AC-228	6,079E-01	24,1	1,467E-01	1,550E-01	3,698E-01
34	TH-227	---	---	---	2,487E-01	6,106E-01
35	TH-230	---	---	---	9,577E+00	2,290E+01
36	TH-234	---	---	---	9,168E-01	2,312E+00
37	PA-234M	---	---	---	6,201E+00	1,465E+01
38	U-235	---	---	---	2,365E-01	5,470E-01
39	AM-241	---	---	---	9,138E-02	2,104E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 23

Auswertung des Gammaskopimetrischen: T2102089

Bezugsdatum:	18.02.2021 07:00:00	Detektor:	GMX4
Messdatum:	18.02.2021 19:00:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.91 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.026 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.02.2021 07:21:58	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210218/01 PW1891 21/0204	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (Bq)	FWHM (keV)	FWHM (keV)	SKO (Bq)	NW (Bq)
1	BE-7	---	---	---	3,137E-01	7,378E-01
2	K-40	9,232E+01	20,6	1,900E+01	4,549E-01	1,097E+00
3	MN-54	---	---	---	4,756E-02	1,121E-01
4	CO-57	---	---	---	2,965E-02	6,855E-02
5	CO-60	---	---	---	5,756E-02	1,374E-01
6	ZN-65	---	---	---	1,198E-01	2,822E-01
7	SE-75	---	---	---	5,720E-02	1,335E-01
8	SR-85	---	---	---	3,833E-02	8,986E-02
9	Y-88	---	---	---	4,847E-02	1,192E-01
10	NB-94	---	---	---	4,635E-02	1,095E-01
11	RU-106	---	---	---	4,415E-01	1,041E+00
12	AG-108M	---	---	---	5,170E-02	1,229E-01
13	AG-110M	---	---	---	5,266E-02	1,244E-01
14	CD-109	---	---	---	7,529E-01	1,736E+00
15	SN-113	---	---	---	5,411E-02	1,262E-01
16	SB-125	---	---	---	1,167E-01	2,738E-01
17	I-129	---	---	---	7,006E-01	1,621E+00
18	CS-134	---	---	---	4,590E-02	1,081E-01
19	CS-137	---	---	---	4,615E-02	1,088E-01
20	CE-139	---	---	---	3,327E-02	7,723E-02
21	CE-144	---	---	---	2,316E-01	5,359E-01
22	EU-152	---	---	---	1,300E-01	3,035E-01
23	EU-154	---	---	---	2,252E-01	5,339E-01
24	HG-203	---	---	---	3,807E-02	8,847E-02
25	TL-208	7,769E-01	21,5	1,674E-01	5,044E-02	1,189E-01
26	PB-210	---	---	---	9,307E-01	2,146E+00
27	PB-212	2,020E+00	20,8	4,209E-01	6,717E-02	1,559E-01
28	PB-214	8,201E-01	21,9	1,797E-01	9,401E-02	2,192E-01
29	BI-212	2,184E+00	27,6	6,019E-01	6,608E-01	1,558E+00
30	BI-214	8,274E-01	22,6	1,869E-01	1,089E-01	2,551E-01
31	RA-223	---	---	---	7,872E-01	1,835E+00
32	RA-226	---	---	---	7,740E-01	1,793E+00
33	AC-228	---	---	---	2,025E-01	4,771E-01
34	TH-227	---	---	---	2,566E-01	6,296E-01
35	TH-230	---	---	---	9,676E+00	2,313E+01
36	TH-234	---	---	---	9,319E-01	2,350E+00
37	PA-234M	---	---	---	6,154E+00	1,455E+01
38	U-235	---	---	---	2,364E-01	5,468E-01
39	AM-241	---	---	---	9,315E-02	2,144E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 24

Auswertung des Gammaskopimetrischen: T2102141

Bezugsdatum:	25.02.2021 07:20:00	Detektor:	GMX4
Messdatum:	25.02.2021 19:20:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.72 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.915 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	26.02.2021 08:44:37	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210225/01 PW1896 21/0259	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Abgammelt (Bq/l)	Faktor (Bq)	Faktor (Bq/l)	BKE (Bq/l)	WWG (Bq/l)
1	BE-7	---	---	---	3,271E-01	7,680E-01
2	K-40	9,269E+01	20,6	1,908E+01	4,773E-01	1,147E+00
3	MN-54	---	---	---	4,823E-02	1,136E-01
4	CO-57	---	---	---	2,952E-02	6,824E-02
5	CO-60	---	---	---	5,642E-02	1,349E-01
6	ZN-65	---	---	---	1,231E-01	2,896E-01
7	SE-75	---	---	---	5,791E-02	1,351E-01
8	SR-85	---	---	---	3,939E-02	9,225E-02
9	Y-88	---	---	---	4,246E-02	1,056E-01
10	NB-94	---	---	---	4,885E-02	1,151E-01
11	RU-106	---	---	---	4,498E-01	1,060E+00
12	AG-108M	---	---	---	5,554E-02	1,316E-01
13	AG-110M	---	---	---	4,899E-02	1,161E-01
14	CD-109	---	---	---	7,260E-01	1,675E+00
15	SN-113	---	---	---	5,052E-02	1,181E-01
16	SB-125	---	---	---	1,136E-01	2,667E-01
17	I-129	---	---	---	7,174E-01	1,659E+00
18	CS-134	---	---	---	4,055E-02	9,603E-02
19	CS-137	---	---	---	4,470E-02	1,055E-01
20	CE-139	---	---	---	3,351E-02	7,776E-02
21	CE-144	---	---	---	2,358E-01	5,454E-01
22	EU-152	---	---	---	1,264E-01	2,953E-01
23	EU-154	---	---	---	2,346E-01	5,552E-01
24	HG-203	---	---	---	3,716E-02	8,640E-02
25	TL-208	8,164E-01	21,4	1,748E-01	4,811E-02	1,137E-01
26	PB-210	---	---	---	9,169E-01	2,115E+00
27	PB-212	2,103E+00	20,9	4,386E-01	6,904E-02	1,601E-01
28	PB-214	9,130E-01	21,8	1,990E-01	9,213E-02	2,149E-01
29	BI-212	2,429E+00	29,9	7,257E-01	6,502E-01	1,534E+00
30	BI-214	9,040E-01	22,6	2,046E-01	9,985E-02	2,346E-01
31	RA-223	---	---	---	7,838E-01	1,827E+00
32	RA-226	---	---	---	7,813E-01	1,809E+00
33	AC-228	5,336E-01	25,2	1,346E-01	1,691E-01	4,016E-01
34	TH-227	---	---	---	2,596E-01	6,367E-01
35	TH-230	---	---	---	9,129E+00	2,185E+01
36	TH-234	---	---	---	9,040E-01	2,281E+00
37	PA-234M	---	---	---	5,941E+00	1,406E+01
38	U-235	---	---	---	2,315E-01	5,358E-01
39	AM-241	---	---	---	9,553E-02	2,197E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 25

Auswertung des Gammaskopimetrischen: T2103041

Bezugsdatum:	04.03.2021 07:30:00	Detektor:	GMX4
Messdatum:	04.03.2021 19:30:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.86 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.008 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	05.03.2021 07:54:59	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210304/01 PW1899 21/0299	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Wahrsch. (kg)	Reinheit (%)	Reinheit (µg)	BKG (cps)	MWG (cps)
1	BE-7	---	---	---	3,666E-01	8,572E-01
2	K-40	9,610E+01	20,6	1,978E+01	4,595E-01	1,107E+00
3	MN-54	---	---	---	4,562E-02	1,077E-01
4	CO-57	---	---	---	2,903E-02	6,714E-02
5	CO-60	---	---	---	5,728E-02	1,368E-01
6	ZN-65	---	---	---	1,179E-01	2,779E-01
7	SE-75	---	---	---	5,534E-02	1,293E-01
8	SR-85	---	---	---	3,936E-02	9,218E-02
9	Y-88	---	---	---	4,791E-02	1,179E-01
10	NB-94	---	---	---	4,813E-02	1,135E-01
11	RU-106	---	---	---	4,636E-01	1,091E+00
12	AG-108M	---	---	---	5,642E-02	1,336E-01
13	AG-110M	---	---	---	5,281E-02	1,247E-01
14	CD-109	---	---	---	7,662E-01	1,766E+00
15	SN-113	---	---	---	5,268E-02	1,230E-01
16	SB-125	---	---	---	1,230E-01	2,880E-01
17	I-129	---	---	---	7,117E-01	1,646E+00
18	CS-134	---	---	---	5,014E-02	1,177E-01
19	CS-137	---	---	---	4,304E-02	1,018E-01
20	CE-139	---	---	---	3,356E-02	7,788E-02
21	CE-144	---	---	---	2,325E-01	5,380E-01
22	EU-152	---	---	---	1,263E-01	2,952E-01
23	EU-154	---	---	---	2,392E-01	5,657E-01
24	HG-203	---	---	---	4,215E-02	9,766E-02
25	TL-208	7,860E-01	21,5	1,693E-01	4,955E-02	1,169E-01
26	PB-210	---	---	---	9,082E-01	2,095E+00
27	PB-212	2,136E+00	20,9	4,460E-01	6,760E-02	1,569E-01
28	PB-214	7,868E-01	22,6	1,781E-01	9,607E-02	2,238E-01
29	BI-212	2,455E+00	27,5	6,754E-01	6,738E-01	1,587E+00
30	BI-214	7,769E-01	23,4	1,818E-01	1,109E-01	2,596E-01
31	RA-223	---	---	---	7,812E-01	1,822E+00
32	RA-226	---	---	---	7,809E-01	1,809E+00
33	AC-228	5,633E-01	26,5	1,493E-01	1,893E-01	4,473E-01
34	TH-227	---	---	---	2,528E-01	6,203E-01
35	TH-230	---	---	---	9,872E+00	2,359E+01
36	TH-234	---	---	---	9,457E-01	2,384E+00
37	PA-234M	---	---	---	6,598E+00	1,555E+01
38	U-235	---	---	---	2,415E-01	5,583E-01
39	AM-241	---	---	---	9,653E-02	2,220E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 26

Auswertung des Gammaskopimetrischen: T2103066

Bezugsdatum:	11.03.2021 07:15:00	Detektor:	GMX4
Messdatum:	11.03.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.02 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.106 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.03.2021 08:16:31	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210311/01 PW1906 21/0317	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Effizienz [%]	Erwart. [Bq]	Erz. [Bq]	HWZ [Bq]
1	BE-7	---	---	---	3,271E-01	7,680E-01
2	K-40	9,335E+01	20,6	1,921E+01	5,296E-01	1,265E+00
3	MN-54	---	---	---	4,632E-02	1,093E-01
4	CO-57	---	---	---	3,143E-02	7,256E-02
5	CO-60	---	---	---	5,813E-02	1,387E-01
6	ZN-65	---	---	---	1,208E-01	2,843E-01
7	SE-75	---	---	---	5,745E-02	1,341E-01
8	SR-85	---	---	---	4,049E-02	9,474E-02
9	Y-88	---	---	---	3,981E-02	9,958E-02
10	NB-94	---	---	---	4,856E-02	1,144E-01
11	RU-106	---	---	---	4,427E-01	1,044E+00
12	AG-108M	---	---	---	5,722E-02	1,354E-01
13	AG-110M	---	---	---	5,177E-02	1,224E-01
14	CD-109	---	---	---	7,758E-01	1,788E+00
15	SN-113	---	---	---	5,161E-02	1,206E-01
16	SB-125	---	---	---	1,152E-01	2,702E-01
17	I-129	---	---	---	7,017E-01	1,623E+00
18	CS-134	---	---	---	4,839E-02	1,138E-01
19	CS-137	---	---	---	4,880E-02	1,148E-01
20	CE-139	---	---	---	3,353E-02	7,781E-02
21	CE-144	---	---	---	2,361E-01	5,462E-01
22	EU-152	---	---	---	1,315E-01	3,069E-01
23	EU-154	---	---	---	2,406E-01	5,688E-01
24	HG-203	---	---	---	3,832E-02	8,902E-02
25	TL-208	7,859E-01	21,5	1,687E-01	4,782E-02	1,130E-01
26	PB-210	---	---	---	9,370E-01	2,161E+00
27	PB-212	2,351E+00	21,0	4,930E-01	6,600E-02	1,533E-01
28	PB-214	8,869E-01	21,9	1,944E-01	9,925E-02	2,310E-01
29	BI-212	2,560E+00	27,0	6,922E-01	6,277E-01	1,483E+00
30	BI-214	8,714E-01	22,4	1,954E-01	1,069E-01	2,505E-01
31	RA-223	---	---	---	8,021E-01	1,869E+00
32	RA-226	---	---	---	7,761E-01	1,798E+00
33	AC-228	5,262E-01	25,6	1,346E-01	1,828E-01	4,326E-01
34	TH-227	---	---	---	2,512E-01	6,165E-01
35	TH-230	---	---	---	1,020E+01	2,437E+01
36	TH-234	---	---	---	9,396E-01	2,369E+00
37	PA-234M	---	---	---	6,322E+00	1,493E+01
38	U-235	---	---	---	2,420E-01	5,595E-01
39	AM-241	---	---	---	9,762E-02	2,244E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 27

Auswertung des Gammaskopimetrischen: T2103118

Bezugsdatum:	18.03.2021 07:05:00	Detektor:	GMX4
Messdatum:	18.03.2021 19:05:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.94 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.085 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.03.2021 07:27:07	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210318/01 PW1908 21/0367	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Arriviert (cps)	Gamma (%)	Gamma (cps)	ERG (Bq/l)	NWT (Bq/l)
1	BE-7	---	---	---	3,540E-01	8,287E-01
2	K-40	9,744E+01	20,6	2,005E+01	5,023E-01	1,204E+00
3	MN-54	---	---	---	4,824E-02	1,136E-01
4	CO-57	---	---	---	3,038E-02	7,019E-02
5	CO-60	---	---	---	5,841E-02	1,394E-01
6	ZN-65	---	---	---	1,224E-01	2,880E-01
7	SE-75	---	---	---	6,045E-02	1,409E-01
8	SR-85	---	---	---	3,710E-02	8,708E-02
9	Y-88	---	---	---	4,311E-02	1,071E-01
10	NB-94	---	---	---	4,636E-02	1,095E-01
11	RU-106	---	---	---	4,294E-01	1,014E+00
12	AG-108M	---	---	---	5,804E-02	1,373E-01
13	AG-110M	---	---	---	4,899E-02	1,161E-01
14	CD-109	---	---	---	7,816E-01	1,801E+00
15	SN-113	---	---	---	5,093E-02	1,190E-01
16	SB-125	---	---	---	1,206E-01	2,825E-01
17	I-129	---	---	---	7,693E-01	1,776E+00
18	CS-134	---	---	---	4,612E-02	1,086E-01
19	CS-137	---	---	---	4,853E-02	1,142E-01
20	CE-139	---	---	---	3,482E-02	8,073E-02
21	CE-144	---	---	---	2,363E-01	5,467E-01
22	EU-152	---	---	---	1,314E-01	3,068E-01
23	EU-154	---	---	---	2,441E-01	5,766E-01
24	HG-203	---	---	---	3,962E-02	9,196E-02
25	TL-208	8,297E-01	21,4	1,776E-01	4,902E-02	1,157E-01
26	PB-210	---	---	---	9,493E-01	2,188E+00
27	PB-212	2,106E+00	20,8	4,377E-01	6,568E-02	1,525E-01
28	PB-214	1,022E+00	21,8	2,229E-01	9,241E-02	2,155E-01
29	BI-212	2,150E+00	27,6	5,928E-01	6,441E-01	1,520E+00
30	BI-214	1,137E+00	21,7	2,465E-01	1,075E-01	2,518E-01
31	RA-223	---	---	---	7,976E-01	1,859E+00
32	RA-226	---	---	---	8,338E-01	1,928E+00
33	AC-228	4,582E-01	26,3	1,206E-01	1,898E-01	4,484E-01
34	TH-227	---	---	---	2,485E-01	6,102E-01
35	TH-230	---	---	---	9,693E+00	2,317E+01
36	TH-234	---	---	---	9,489E-01	2,392E+00
37	PA-234M	---	---	---	5,766E+00	1,367E+01
38	U-235	---	---	---	2,402E-01	5,555E-01
39	AM-241	---	---	---	9,555E-02	2,198E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 28

Auswertung des Gammaskopimetrischen: T2103175

Bezugsdatum:	25.03.2021 07:30:00	Detektor:	GMX4
Messdatum:	25.03.2021 19:30:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.83 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.009 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	26.03.2021 08:23:10	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210325/01 PW1916 21/0448	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	Aktivität (Bq/l)	Inhalt (%)	Lebensdauer (a)	BKG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	3,349E-01	7,856E-01
2	K-40	9,710E+01	20,5	1,995E+01	4,843E-01	1,163E+00
3	MN-54	---	---	---	4,315E-02	1,021E-01
4	CO-57	---	---	---	2,980E-02	6,887E-02
5	CO-60	---	---	---	5,701E-02	1,362E-01
6	ZN-65	---	---	---	1,226E-01	2,884E-01
7	SE-75	---	---	---	5,560E-02	1,299E-01
8	SR-85	---	---	---	3,867E-02	9,063E-02
9	Y-88	---	---	---	4,436E-02	1,099E-01
10	NB-94	---	---	---	4,421E-02	1,046E-01
11	RU-106	---	---	---	4,257E-01	1,006E+00
12	AG-108M	---	---	---	5,130E-02	1,220E-01
13	AG-110M	---	---	---	4,931E-02	1,168E-01
14	CD-109	---	---	---	7,133E-01	1,647E+00
15	SN-113	---	---	---	5,201E-02	1,215E-01
16	SB-125	---	---	---	1,147E-01	2,691E-01
17	I-129	---	---	---	7,319E-01	1,692E+00
18	CS-134	---	---	---	4,662E-02	1,098E-01
19	CS-137	---	---	---	4,485E-02	1,058E-01
20	CE-139	---	---	---	3,429E-02	7,953E-02
21	CE-144	---	---	---	2,440E-01	5,640E-01
22	EU-152	---	---	---	1,293E-01	3,019E-01
23	EU-154	---	---	---	2,179E-01	5,175E-01
24	HG-203	---	---	---	4,048E-02	9,389E-02
25	TL-208	7,436E-01	21,5	1,597E-01	5,076E-02	1,197E-01
26	PB-210	---	---	---	9,287E-01	2,142E+00
27	PB-212	2,114E+00	21,0	4,433E-01	6,897E-02	1,600E-01
28	PB-214	1,062E+00	21,6	2,298E-01	8,772E-02	2,050E-01
29	BI-212	2,470E+00	26,8	6,622E-01	6,567E-01	1,548E+00
30	BI-214	9,490E-01	22,3	2,114E-01	1,070E-01	2,508E-01
31	RA-223	---	---	---	8,168E-01	1,902E+00
32	RA-226	---	---	---	8,108E-01	1,876E+00
33	AC-228	5,410E-01	25,2	1,365E-01	1,768E-01	4,191E-01
34	TH-227	---	---	---	2,599E-01	6,373E-01
35	TH-230	---	---	---	9,776E+00	2,337E+01
36	TH-234	---	---	---	9,185E-01	2,317E+00
37	PA-234M	---	---	---	6,212E+00	1,468E+01
38	U-235	---	---	---	2,349E-01	5,435E-01
39	AM-241	---	---	---	9,555E-02	2,198E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 29

Auswertung des Gammaskpektrums: T2103213

Bezugsdatum:	31.03.2021 06:50:00	Detektor:	GMX4
Messdatum:	31.03.2021 13:20:00	Messzeit: (life)	4400.00 s
Alter der Probe:	23400 Sekunden	Messzeit: (real)	4400.53 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.178 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	31.03.2021 15:17:53	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210331/01 PW1918 21/0458	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Fehler [%]	Fehler [Bq]	EWG [Bq]	MWG [Bq]
1	BE-7	---	---	---	9,905E-01	2,531E+00
2	K-40	9,620E+01	21,1	2,030E+01	1,412E+00	3,872E+00
3	MN-54	---	---	---	1,691E-01	4,286E-01
4	CO-57	---	---	---	8,990E-02	2,184E-01
5	CO-60	---	---	---	1,856E-01	4,922E-01
6	ZN-65	---	---	---	3,746E-01	9,619E-01
7	SE-75	---	---	---	1,695E-01	4,222E-01
8	SR-85	---	---	---	1,353E-01	3,386E-01
9	Y-88	---	---	---	1,618E-01	4,593E-01
10	NB-94	---	---	---	1,599E-01	4,092E-01
11	RU-106	---	---	---	1,459E+00	3,722E+00
12	AG-108M	---	---	---	1,655E-01	4,320E-01
13	AG-110M	---	---	---	1,224E-01	3,279E-01
14	CD-109	---	---	---	2,211E+00	5,349E+00
15	SN-113	---	---	---	1,361E-01	3,479E-01
16	SB-125	---	---	---	3,895E-01	9,790E-01
17	I-129	---	---	---	2,230E+00	5,412E+00
18	CS-134	---	---	---	1,574E-01	3,984E-01
19	CS-137	---	---	---	1,288E-01	3,369E-01
20	CE-139	---	---	---	1,083E-01	2,641E-01
21	CE-144	---	---	---	7,341E-01	1,780E+00
22	EU-152	---	---	---	4,524E-01	1,119E+00
23	EU-154	---	---	---	6,739E-01	1,766E+00
24	HG-203	---	---	---	1,472E-01	3,571E-01
25	TL-208	8,432E-01	26,9	2,268E-01	1,619E-01	4,136E-01
26	PB-210	---	---	---	2,958E+00	7,127E+00
27	PB-212	2,687E+00	22,3	6,004E-01	2,255E-01	5,507E-01
28	PB-214	1,310E+00	25,4	3,327E-01	3,005E-01	7,468E-01
29	BI-212	---	---	---	2,656E+00	6,648E+00
30	BI-214	9,162E-01	32,5	2,975E-01	3,831E-01	9,547E-01
31	RA-223	---	---	---	2,408E+00	6,001E+00
32	RA-226	---	---	---	2,609E+00	6,329E+00
33	AC-228	---	---	---	7,595E-01	1,911E+00
34	TH-227	---	---	---	7,792E-01	2,024E+00
35	TH-230	---	---	---	3,152E+01	7,793E+01
36	TH-234	---	---	---	3,202E+00	8,344E+00
37	PA-234M	---	---	---	1,653E+01	4,378E+01
38	U-235	---	---	---	8,360E-01	2,014E+00
39	AM-241	---	---	---	3,266E-01	7,780E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 30

Auswertung des Gammaskopimetrischen: T2104019

Bezugsdatum:	08.04.2021 07:20:00	Detektor:	GMX4
Messdatum:	08.04.2021 19:20:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.86 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.028 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	09.04.2021 08:37:31	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210408/01 PW1922 21/0486	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AMWERT [g/g]	Faktor [s]	Faktor [s]	ERG [Bq/g]	FWG [Bq/g]
1	BE-7	---	---	---	3,441E-01	8,065E-01
2	K-40	9,401E+01	20,6	1,935E+01	4,978E-01	1,193E+00
3	MN-54	---	---	---	4,687E-02	1,105E-01
4	CO-57	---	---	---	3,039E-02	7,021E-02
5	CO-60	---	---	---	5,498E-02	1,316E-01
6	ZN-65	---	---	---	1,150E-01	2,712E-01
7	SE-75	---	---	---	5,807E-02	1,355E-01
8	SR-85	---	---	---	3,840E-02	9,001E-02
9	Y-88	---	---	---	5,176E-02	1,266E-01
10	NB-94	---	---	---	4,740E-02	1,118E-01
11	RU-106	---	---	---	4,367E-01	1,031E+00
12	AG-108M	---	---	---	5,379E-02	1,276E-01
13	AG-110M	---	---	---	5,025E-02	1,189E-01
14	CD-109	---	---	---	7,652E-01	1,764E+00
15	SN-113	---	---	---	5,337E-02	1,245E-01
16	SB-125	---	---	---	1,201E-01	2,813E-01
17	I-129	---	---	---	7,484E-01	1,729E+00
18	CS-134	---	---	---	4,480E-02	1,056E-01
19	CS-137	---	---	---	4,853E-02	1,142E-01
20	CE-139	---	---	---	3,282E-02	7,621E-02
21	CE-144	---	---	---	2,504E-01	5,785E-01
22	EU-152	---	---	---	1,343E-01	3,133E-01
23	EU-154	---	---	---	2,280E-01	5,404E-01
24	HG-203	---	---	---	3,978E-02	9,233E-02
25	TL-208	8,237E-01	21,7	1,790E-01	4,981E-02	1,175E-01
26	PB-210	---	---	---	9,472E-01	2,184E+00
27	PB-212	2,220E+00	20,9	4,630E-01	6,933E-02	1,608E-01
28	PB-214	1,091E+00	21,5	2,346E-01	8,575E-02	2,005E-01
29	BI-212	2,137E+00	32,0	6,829E-01	6,373E-01	1,504E+00
30	BI-214	1,076E+00	22,0	2,370E-01	1,043E-01	2,447E-01
31	RA-223	---	---	---	7,988E-01	1,861E+00
32	RA-226	---	---	---	8,174E-01	1,891E+00
33	AC-228	---	---	---	1,909E-01	4,509E-01
34	TH-227	---	---	---	2,566E-01	6,296E-01
35	TH-230	---	---	---	8,625E+00	2,066E+01
36	TH-234	---	---	---	9,107E-01	2,297E+00
37	PA-234M	---	---	---	6,401E+00	1,510E+01
38	U-235	---	---	---	2,392E-01	5,531E-01
39	AM-241	---	---	---	9,279E-02	2,135E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 31

Auswertung des Gammaskopimetrischen: T2104061

Bezugsdatum:	15.04.2021 07:10:00	Detektor:	GMX4
Messdatum:	15.04.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.81 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.985 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.04.2021 07:49:04	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210415/01 PW1923 21/0517	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Genauigkeit [%]	Ergebnis [Bq]	Ergebnis [cps]	Ergebnis [cps]
1	BE-7	---	---	---	3,612E-01	8,449E-01
2	K-40	9,491E+01	20,6	1,953E+01	5,303E-01	1,267E+00
3	MN-54	---	---	---	4,660E-02	1,099E-01
4	CO-57	---	---	---	3,064E-02	7,078E-02
5	CO-60	---	---	---	6,113E-02	1,455E-01
6	ZN-65	---	---	---	1,185E-01	2,792E-01
7	SE-75	---	---	---	5,864E-02	1,368E-01
8	SR-85	---	---	---	3,858E-02	9,042E-02
9	Y-88	---	---	---	4,497E-02	1,113E-01
10	NB-94	---	---	---	4,681E-02	1,105E-01
11	RU-106	---	---	---	4,545E-01	1,071E+00
12	AG-108M	---	---	---	5,319E-02	1,263E-01
13	AG-110M	---	---	---	5,025E-02	1,189E-01
14	CD-109	---	---	---	7,648E-01	1,763E+00
15	SN-113	---	---	---	5,308E-02	1,239E-01
16	SB-125	---	---	---	1,175E-01	2,756E-01
17	I-129	---	---	---	7,257E-01	1,678E+00
18	CS-134	---	---	---	4,005E-02	9,491E-02
19	CS-137	---	---	---	4,840E-02	1,138E-01
20	CE-139	---	---	---	3,166E-02	7,357E-02
21	CE-144	---	---	---	2,414E-01	5,581E-01
22	EU-152	---	---	---	1,279E-01	2,988E-01
23	EU-154	---	---	---	2,246E-01	5,325E-01
24	HG-203	---	---	---	4,066E-02	9,431E-02
25	TL-208	7,474E-01	21,5	1,608E-01	4,646E-02	1,099E-01
26	PB-210	---	---	---	9,444E-01	2,177E+00
27	PB-212	2,160E+00	20,8	4,487E-01	6,483E-02	1,506E-01
28	PB-214	1,205E+00	21,3	2,563E-01	8,150E-02	1,909E-01
29	BI-212	2,172E+00	28,3	6,142E-01	6,320E-01	1,492E+00
30	BI-214	1,182E+00	21,9	2,585E-01	9,793E-02	2,303E-01
31	RA-223	---	---	---	7,976E-01	1,859E+00
32	RA-226	---	---	---	7,947E-01	1,840E+00
33	AC-228	6,390E-01	24,7	1,581E-01	1,700E-01	4,037E-01
34	TH-227	---	---	---	2,474E-01	6,074E-01
35	TH-230	---	---	---	8,847E+00	2,118E+01
36	TH-234	---	---	---	8,954E-01	2,260E+00
37	PA-234M	---	---	---	6,092E+00	1,441E+01
38	U-235	---	---	---	2,384E-01	5,514E-01
39	AM-241	---	---	---	9,483E-02	2,181E-01

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 32

Auswertung des Gammaskopmetrischen: T2104122

Bezugsdatum:	22.04.2021 07:10:00	Detektor:	GMX4
Messdatum:	22.04.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.75 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.929 cps
Ausbeutekurve:	RS4_REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	23.04.2021 08:12:55	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210422/01 PW1928 21/0554	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Effizienz [%]	Zählrate [cps]	ERG. [Bq]	MWG [a]
1	BE-7	---	---	---	3,164E-01	7,440E-01
2	K-40	9,280E+01	20,6	1,910E+01	4,985E-01	1,195E+00
3	MN-54	---	---	---	5,034E-02	1,183E-01
4	CO-57	---	---	---	2,926E-02	6,766E-02
5	CO-60	---	---	---	5,348E-02	1,282E-01
6	ZN-65	---	---	---	1,165E-01	2,746E-01
7	SE-75	---	---	---	5,517E-02	1,289E-01
8	SR-85	---	---	---	3,845E-02	9,013E-02
9	Y-88	---	---	---	5,122E-02	1,254E-01
10	NB-94	---	---	---	4,799E-02	1,132E-01
11	RU-106	---	---	---	4,367E-01	1,031E+00
12	AG-108M	---	---	---	5,705E-02	1,350E-01
13	AG-110M	---	---	---	5,132E-02	1,213E-01
14	CD-109	---	---	---	7,492E-01	1,728E+00
15	SN-113	---	---	---	5,073E-02	1,186E-01
16	SB-125	---	---	---	1,165E-01	2,732E-01
17	I-129	---	---	---	6,812E-01	1,577E+00
18	CS-134	---	---	---	4,376E-02	1,033E-01
19	CS-137	---	---	---	4,485E-02	1,058E-01
20	CE-139	---	---	---	3,318E-02	7,702E-02
21	CE-144	---	---	---	2,293E-01	5,308E-01
22	EU-152	---	---	---	1,271E-01	2,970E-01
23	EU-154	---	---	---	2,410E-01	5,698E-01
24	HG-203	---	---	---	4,014E-02	9,312E-02
25	TL-208	8,465E-01	21,3	1,806E-01	4,789E-02	1,132E-01
26	PB-210	---	---	---	9,465E-01	2,182E+00
27	PB-212	2,229E+00	20,9	4,658E-01	6,720E-02	1,560E-01
28	PB-214	9,352E-01	21,6	2,016E-01	8,558E-02	2,001E-01
29	BI-212	2,477E+00	26,2	6,494E-01	6,592E-01	1,554E+00
30	BI-214	9,454E-01	21,9	2,070E-01	1,002E-01	2,354E-01
31	RA-223	---	---	---	7,541E-01	1,761E+00
32	RA-226	---	---	---	7,793E-01	1,805E+00
33	AC-228	6,301E-01	25,0	1,578E-01	1,771E-01	4,197E-01
34	TH-227	---	---	---	2,443E-01	6,001E-01
35	TH-230	---	---	---	8,579E+00	2,055E+01
36	TH-234	---	---	---	8,833E-01	2,230E+00
37	PA-234M	---	---	---	6,071E+00	1,436E+01
38	U-235	---	---	---	2,329E-01	5,390E-01
39	AM-241	---	---	---	9,090E-02	2,093E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 33

Auswertung des Gammaskopimetrischen: T2104181

Bezugsdatum:	29.04.2021 07:35:00	Detektor:	GMX4
Messdatum:	29.04.2021 19:35:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.88 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.986 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	30.04.2021 09:56:43	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210429/01 PW1931 21/0606	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

IN	Isotop	AMT (Bq/l)	Fehler (%)	Fehler (Bq/l)	EL (Bq/l)	NWZ (Bq/l)
1	BE-7	---	---	---	3,433E-01	8,046E-01
2	K-40	9,285E+01	20,6	1,911E+01	5,138E-01	1,229E+00
3	MN-54	---	---	---	4,505E-02	1,064E-01
4	CO-57	---	---	---	2,988E-02	6,906E-02
5	CO-60	---	---	---	5,162E-02	1,240E-01
6	ZN-65	---	---	---	1,113E-01	2,629E-01
7	SE-75	---	---	---	6,075E-02	1,416E-01
8	SR-85	---	---	---	4,073E-02	9,528E-02
9	Y-88	---	---	---	4,676E-02	1,153E-01
10	NB-94	---	---	---	4,857E-02	1,145E-01
11	RU-106	---	---	---	4,403E-01	1,039E+00
12	AG-108M	---	---	---	5,589E-02	1,324E-01
13	AG-110M	---	---	---	4,978E-02	1,179E-01
14	CD-109	---	---	---	7,719E-01	1,779E+00
15	SN-113	---	---	---	5,211E-02	1,217E-01
16	SB-125	---	---	---	1,165E-01	2,732E-01
17	I-129	---	---	---	6,932E-01	1,604E+00
18	CS-134	---	---	---	4,984E-02	1,170E-01
19	CS-137	---	---	---	4,826E-02	1,135E-01
20	CE-139	---	---	---	3,229E-02	7,500E-02
21	CE-144	---	---	---	2,300E-01	5,324E-01
22	EU-152	---	---	---	1,281E-01	2,992E-01
23	EU-154	---	---	---	2,361E-01	5,587E-01
24	HG-203	---	---	---	4,028E-02	9,345E-02
25	TL-208	7,495E-01	21,6	1,622E-01	4,960E-02	1,170E-01
26	PB-210	---	---	---	9,309E-01	2,147E+00
27	PB-212	2,078E+00	20,9	4,342E-01	6,920E-02	1,605E-01
28	PB-214	7,422E-01	22,2	1,650E-01	8,987E-02	2,098E-01
29	BI-212	2,077E+00	31,0	6,434E-01	6,592E-01	1,554E+00
30	BI-214	6,676E-01	23,7	1,585E-01	1,099E-01	2,574E-01
31	RA-223	---	---	---	7,626E-01	1,780E+00
32	RA-226	---	---	---	8,061E-01	1,866E+00
33	AC-228	---	---	---	1,658E-01	3,941E-01
34	TH-227	---	---	---	2,534E-01	6,219E-01
35	TH-230	---	---	---	8,957E+00	2,144E+01
36	TH-234	---	---	---	8,993E-01	2,269E+00
37	PA-234M	---	---	---	6,361E+00	1,501E+01
38	U-235	---	---	---	2,340E-01	5,415E-01
39	AM-241	---	---	---	9,267E-02	2,133E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 34

Auswertung des Gammaskopimetrischen: T2105042

Bezugsdatum:	06.05.2021 07:10:00	Detektor:	GMX4
Messdatum:	06.05.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.95 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.064 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	07.05.2021 08:46:45	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210506/01 PW1934 21/0642	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Amplitude [Bq]	Fehler (%)	Fehler [Bq]	EKG [Bq]	HWG [Bq]
1	BE-7	---	---	---	3,349E-01	7,856E-01
2	K-40	9,357E+01	20,6	1,926E+01	5,287E-01	1,263E+00
3	MN-54	---	---	---	4,619E-02	1,090E-01
4	CO-57	---	---	---	3,022E-02	6,982E-02
5	CO-60	---	---	---	5,586E-02	1,336E-01
6	ZN-65	---	---	---	1,202E-01	2,831E-01
7	SE-75	---	---	---	5,807E-02	1,355E-01
8	SR-85	---	---	---	3,936E-02	9,217E-02
9	Y-88	---	---	---	4,904E-02	1,205E-01
10	NB-94	---	---	---	4,373E-02	1,035E-01
11	RU-106	---	---	---	4,636E-01	1,092E+00
12	AG-108M	---	---	---	5,848E-02	1,383E-01
13	AG-110M	---	---	---	5,370E-02	1,267E-01
14	CD-109	---	---	---	7,764E-01	1,789E+00
15	SN-113	---	---	---	5,221E-02	1,219E-01
16	SB-125	---	---	---	1,193E-01	2,796E-01
17	I-129	---	---	---	7,356E-01	1,700E+00
18	CS-134	---	---	---	4,737E-02	1,115E-01
19	CS-137	---	---	---	4,687E-02	1,104E-01
20	CE-139	---	---	---	3,295E-02	7,650E-02
21	CE-144	---	---	---	2,395E-01	5,538E-01
22	EU-152	---	---	---	1,339E-01	3,123E-01
23	EU-154	---	---	---	2,474E-01	5,842E-01
24	HG-203	---	---	---	4,033E-02	9,356E-02
25	TL-208	8,041E-01	21,5	1,728E-01	4,729E-02	1,118E-01
26	PB-210	---	---	---	9,696E-01	2,234E+00
27	PB-212	2,100E+00	20,8	4,370E-01	6,651E-02	1,544E-01
28	PB-214	9,724E-01	21,5	2,095E-01	8,889E-02	2,076E-01
29	BI-212	2,179E+00	32,6	7,110E-01	6,481E-01	1,529E+00
30	BI-214	9,664E-01	22,4	2,167E-01	1,058E-01	2,481E-01
31	RA-223	---	---	---	7,955E-01	1,854E+00
32	RA-226	---	---	---	8,132E-01	1,882E+00
33	AC-228	---	---	---	1,639E-01	3,899E-01
34	TH-227	---	---	---	2,478E-01	6,085E-01
35	TH-230	---	---	---	8,913E+00	2,134E+01
36	TH-234	---	---	---	8,949E-01	2,258E+00
37	PA-234M	---	---	---	6,259E+00	1,478E+01
38	U-235	---	---	---	2,380E-01	5,506E-01
39	AM-241	---	---	---	9,717E-02	2,234E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 35

Auswertung des Gammaskopimetrischen: T2105096

Bezugsdatum:	12.05.2021 07:10:00	Detektor:	GMX4
Messdatum:	12.05.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.90 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.073 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	17.05.2021 07:17:24	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210512/01 PW1941 21/0693	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AKTIVITÄT [Bq]	FEHLER [%]	LEBENSZEIT [a]	HALBWEITSZEIT [a]	EKG [Bq]	NWG [Bq]
1	BE-7	---	---	---	---	3,620E-01	8,467E-01
2	K-40	9,297E+01	20,6	1,914E+01	---	5,111E-01	1,223E+00
3	MN-54	---	---	---	---	4,590E-02	1,083E-01
4	CO-57	---	---	---	---	3,198E-02	7,381E-02
5	CO-60	---	---	---	---	5,615E-02	1,342E-01
6	ZN-65	---	---	---	---	1,158E-01	2,731E-01
7	SE-75	---	---	---	---	5,767E-02	1,346E-01
8	SR-85	---	---	---	---	3,794E-02	8,898E-02
9	Y-88	---	---	---	---	4,904E-02	1,205E-01
10	NB-94	---	---	---	---	4,814E-02	1,135E-01
11	RU-106	---	---	---	---	4,427E-01	1,044E+00
12	AG-108M	---	---	---	---	5,649E-02	1,337E-01
13	AG-110M	---	---	---	---	5,223E-02	1,234E-01
14	CD-109	---	---	---	---	7,509E-01	1,732E+00
15	SN-113	---	---	---	---	5,073E-02	1,186E-01
16	SB-125	---	---	---	---	1,122E-01	2,637E-01
17	I-129	---	---	---	---	6,745E-01	1,562E+00
18	CS-134	---	---	---	---	4,676E-02	1,101E-01
19	CS-137	---	---	---	---	4,812E-02	1,132E-01
20	CE-139	---	---	---	---	3,341E-02	7,753E-02
21	CE-144	---	---	---	---	2,343E-01	5,420E-01
22	EU-152	---	---	---	---	1,275E-01	2,979E-01
23	EU-154	---	---	---	---	2,403E-01	5,681E-01
24	HG-203	---	---	---	---	4,071E-02	9,441E-02
25	TL-208	7,781E-01	21,8	1,697E-01	---	5,105E-02	1,203E-01
26	PB-210	---	---	---	---	9,512E-01	2,193E+00
27	PB-212	2,093E+00	20,9	4,368E-01	---	6,909E-02	1,602E-01
28	PB-214	1,227E+00	21,2	2,602E-01	---	8,683E-02	2,029E-01
29	BI-212	2,781E+00	24,6	6,844E-01	---	6,171E-01	1,459E+00
30	BI-214	1,182E+00	21,8	2,575E-01	---	1,065E-01	2,496E-01
31	RA-223	---	---	---	---	7,505E-01	1,752E+00
32	RA-226	---	---	---	---	8,216E-01	1,901E+00
33	AC-228	---	---	---	---	1,797E-01	4,256E-01
34	TH-227	---	---	---	---	2,501E-01	6,140E-01
35	TH-230	---	---	---	---	9,217E+00	2,205E+01
36	TH-234	---	---	---	---	9,053E-01	2,284E+00
37	PA-234M	---	---	---	---	6,560E+00	1,546E+01
38	U-235	---	---	---	---	2,457E-01	5,680E-01
39	AM-241	---	---	---	---	9,594E-02	2,206E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 36
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopetrs: T2105155

Bezugsdatum:	20.05.2021 07:30:00	Detektor:	GMX4
Messdatum:	20.05.2021 19:30:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.90 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.028 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	21.05.2021 07:58:52	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210520/01 PW1950 21/0749	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	Aktivität (Bq)	Effizienz (%)	Effizienz (kcal)	EKE (keV)	NWL (cpd)
1	BE-7	---	---	---	3,366E-01	7,894E-01
2	K-40	9,165E+01	20,6	1,886E+01	5,179E-01	1,239E+00
3	MN-54	---	---	---	4,300E-02	1,018E-01
4	CO-57	---	---	---	3,058E-02	7,063E-02
5	CO-60	---	---	---	6,006E-02	1,431E-01
6	ZN-65	---	---	---	1,040E-01	2,464E-01
7	SE-75	---	---	---	5,798E-02	1,353E-01
8	SR-85	---	---	---	3,836E-02	8,993E-02
9	Y-88	---	---	---	4,617E-02	1,140E-01
10	NB-94	---	---	---	4,591E-02	1,085E-01
11	RU-106	---	---	---	4,545E-01	1,071E+00
12	AG-108M	---	---	---	5,918E-02	1,398E-01
13	AG-110M	---	---	---	4,883E-02	1,157E-01
14	CD-109	---	---	---	7,644E-01	1,762E+00
15	SN-113	---	---	---	5,152E-02	1,204E-01
16	SB-125	---	---	---	1,173E-01	2,750E-01
17	I-129	---	---	---	7,048E-01	1,630E+00
18	CS-134	---	---	---	4,650E-02	1,095E-01
19	CS-137	---	---	---	4,630E-02	1,091E-01
20	CE-139	---	---	---	3,263E-02	7,576E-02
21	CE-144	---	---	---	2,355E-01	5,449E-01
22	EU-152	---	---	---	1,344E-01	3,134E-01
23	EU-154	---	---	---	2,485E-01	5,866E-01
24	HG-203	---	---	---	3,958E-02	9,186E-02
25	TL-208	8,605E-01	21,3	1,837E-01	4,895E-02	1,155E-01
26	PB-210	---	---	---	9,479E-01	2,185E+00
27	PB-212	2,332E+00	20,8	4,842E-01	6,885E-02	1,597E-01
28	PB-214	9,990E-01	21,5	2,151E-01	8,913E-02	2,081E-01
29	BI-212	2,434E+00	27,3	6,642E-01	6,389E-01	1,508E+00
30	BI-214	1,000E+00	21,8	2,183E-01	1,009E-01	2,370E-01
31	RA-223	---	---	---	7,721E-01	1,801E+00
32	RA-226	---	---	---	8,139E-01	1,883E+00
33	AC-228	4,881E-01	25,4	1,240E-01	1,764E-01	4,181E-01
34	TH-227	---	---	---	2,540E-01	6,232E-01
35	TH-230	---	---	---	8,698E+00	2,083E+01
36	TH-234	---	---	---	8,863E-01	2,237E+00
37	PA-234M	---	---	---	6,007E+00	1,421E+01
38	U-235	---	---	---	2,396E-01	5,542E-01
39	AM-241	---	---	---	9,443E-02	2,172E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 37
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2105192

Bezugsdatum:	27.05.2021 07:25:00	Detektor:	GMX4
Messdatum:	27.05.2021 19:25:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.69 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.871 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	28.05.2021 10:34:40	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210527/01 PW1953 21/0773	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivit. [Bq]	Formul. [g]	Erhob. [min]	BKG [cpm]	HWZ [s]
1	BE-7	---	---	---	3,466E-01	8,121E-01
2	K-40	9,179E+01	20,6	1,889E+01	5,087E-01	1,218E+00
3	MN-54	---	---	---	4,239E-02	1,004E-01
4	CO-57	---	---	---	2,910E-02	6,729E-02
5	CO-60	---	---	---	5,814E-02	1,387E-01
6	ZN-65	---	---	---	1,179E-01	2,777E-01
7	SE-75	---	---	---	5,627E-02	1,314E-01
8	SR-85	---	---	---	3,950E-02	9,250E-02
9	Y-88	---	---	---	4,617E-02	1,140E-01
10	NB-94	---	---	---	4,452E-02	1,053E-01
11	RU-106	---	---	---	4,556E-01	1,073E+00
12	AG-108M	---	---	---	5,767E-02	1,364E-01
13	AG-110M	---	---	---	5,208E-02	1,231E-01
14	CD-109	---	---	---	7,738E-01	1,783E+00
15	SN-113	---	---	---	5,221E-02	1,219E-01
16	SB-125	---	---	---	1,131E-01	2,655E-01
17	I-129	---	---	---	7,093E-01	1,641E+00
18	CS-134	---	---	---	4,577E-02	1,078E-01
19	CS-137	---	---	---	4,826E-02	1,135E-01
20	CE-139	---	---	---	3,369E-02	7,818E-02
21	CE-144	---	---	---	2,325E-01	5,379E-01
22	EU-152	---	---	---	1,287E-01	3,005E-01
23	EU-154	---	---	---	2,439E-01	5,763E-01
24	HG-203	---	---	---	3,762E-02	8,745E-02
25	TL-208	7,083E-01	21,7	1,537E-01	4,867E-02	1,149E-01
26	PB-210	---	---	---	9,157E-01	2,112E+00
27	PB-212	2,061E+00	20,9	4,314E-01	6,702E-02	1,556E-01
28	PB-214	5,560E-01	23,0	1,278E-01	8,571E-02	2,004E-01
29	BI-212	2,859E+00	25,7	7,347E-01	6,408E-01	1,512E+00
30	BI-214	4,913E-01	25,3	1,242E-01	1,059E-01	2,482E-01
31	RA-223	---	---	---	7,377E-01	1,723E+00
32	RA-226	---	---	---	7,729E-01	1,791E+00
33	AC-228	---	---	---	1,793E-01	4,247E-01
34	TH-227	---	---	---	2,409E-01	5,920E-01
35	TH-230	---	---	---	8,565E+00	2,052E+01
36	TH-234	---	---	---	8,583E-01	2,168E+00
37	PA-234M	---	---	---	5,653E+00	1,342E+01
38	U-235	---	---	---	2,242E-01	5,192E-01
39	AM-241	---	---	---	8,858E-02	2,041E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 38
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2106045

Bezugsdatum: 03.06.2021 07:15:00	Detektor: GMX4
Messdatum: 03.06.2021 19:15:00	Messzeit: (life) 43200.00 s
Alter der Probe: 43200 Sekunden	Messzeit: (real) 43204.86 s
Probenmasse/Volumen: 0,95	Totzeit: 0.01 %
Nuklidtabelle: RS4_REF3.ISO	Zählrate: 3.031 cps
Ausbeutekurve: RS4REF_1.EFF	Fensterbreite:
Absorbtionskurve: RS4_L00.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2103T4.NUL	Halbwertsbreite: 0.92 keV - 2.28 keV
Auswertedatum: 04.06.2021 08:36:10	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: L658008/20210603/01 PW1957 21/0841	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Fehler (%)	Faktor (Bq)	Rate (cps)	nPW (Bq)
1	BE-7	---	---	---	3,433E-01	8,046E-01
2	K-40	9,485E+01	20,6	1,952E+01	5,407E-01	1,290E+00
3	MN-54	---	---	---	4,633E-02	1,093E-01
4	CO-57	---	---	---	3,190E-02	7,362E-02
5	CO-60	---	---	---	5,348E-02	1,282E-01
6	ZN-65	---	---	---	1,224E-01	2,880E-01
7	SE-75	---	---	---	5,660E-02	1,322E-01
8	SR-85	---	---	---	3,787E-02	8,881E-02
9	Y-88	---	---	---	4,558E-02	1,126E-01
10	NB-94	---	---	---	4,606E-02	1,088E-01
11	RU-106	---	---	---	4,367E-01	1,031E+00
12	AG-108M	---	---	---	5,737E-02	1,357E-01
13	AG-110M	---	---	---	4,963E-02	1,175E-01
14	CD-109	---	---	---	7,776E-01	1,792E+00
15	SN-113	---	---	---	5,142E-02	1,201E-01
16	SB-125	---	---	---	1,173E-01	2,750E-01
17	I-129	---	---	---	7,288E-01	1,685E+00
18	CS-134	---	---	---	4,495E-02	1,060E-01
19	CS-137	---	---	---	4,743E-02	1,117E-01
20	CE-139	---	---	---	3,519E-02	8,156E-02
21	CE-144	---	---	---	2,364E-01	5,469E-01
22	EU-152	---	---	---	1,314E-01	3,067E-01
23	EU-154	---	---	---	2,416E-01	5,712E-01
24	HG-203	---	---	---	3,942E-02	9,151E-02
25	TL-208	8,025E-01	21,6	1,736E-01	4,984E-02	1,176E-01
26	PB-210	---	---	---	9,416E-01	2,171E+00
27	PB-212	2,132E+00	20,8	4,431E-01	6,658E-02	1,546E-01
28	PB-214	1,100E+00	21,4	2,353E-01	9,221E-02	2,151E-01
29	BI-212	2,145E+00	27,8	5,961E-01	6,366E-01	1,503E+00
30	BI-214	1,148E+00	21,6	2,484E-01	1,096E-01	2,567E-01
31	RA-223	---	---	---	8,279E-01	1,927E+00
32	RA-226	---	---	---	7,997E-01	1,851E+00
33	AC-228	3,989E-01	28,4	1,131E-01	1,930E-01	4,555E-01
34	TH-227	---	---	---	2,474E-01	6,075E-01
35	TH-230	---	---	---	9,053E+00	2,167E+01
36	TH-234	---	---	---	8,975E-01	2,264E+00
37	PA-234M	---	---	---	6,071E+00	1,436E+01
38	U-235	---	---	---	2,344E-01	5,423E-01
39	AM-241	---	---	---	9,412E-02	2,165E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 39

Auswertung des Gammaskpektrums: T2106145

Bezugsdatum: 10.06.2021 07:15:00 Messdatum: 10.06.2021 19:15:00 Alter der Probe: 43200 Sekunden Probenmasse/Volumen: 1 Nuklidtabelle: RS4_REF3.ISO Ausbeutekurve: RS4REF_1.EFF Absorbtionskurve: RS4_L00.ABS Nulldatei: UR2103T4.NUL Auswertedatum: 11.06.2021 09:27:40 Kommentar: L658008/20210610/01 PW1960 21/0925	Detektor: GMX4 Messzeit: (life) 43200.00 s Messzeit: (real) 43204.79 s Totzeit: 0.01 % Zählrate: 2.972 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.92 keV - 2.28 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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Nr.	Isotop	Aktivität (Bq)	Fehler (%)	Faktor (Bq)	RHS (Bq)	LWS (Bq)
1	BE-7	---	---	---	3,222E-01	7,554E-01
2	K-40	8,962E+01	20,6	1,845E+01	5,091E-01	1,215E+00
3	MN-54	---	---	---	4,388E-02	1,035E-01
4	CO-57	---	---	---	2,873E-02	6,638E-02
5	CO-60	---	---	---	5,416E-02	1,294E-01
6	ZN-65	---	---	---	1,106E-01	2,607E-01
7	SE-75	---	---	---	5,377E-02	1,256E-01
8	SR-85	---	---	---	3,631E-02	8,514E-02
9	Y-88	---	---	---	4,442E-02	1,095E-01
10	NB-94	---	---	---	4,347E-02	1,027E-01
11	RU-106	---	---	---	3,977E-01	9,402E-01
12	AG-108M	---	---	---	5,145E-02	1,221E-01
13	AG-110M	---	---	---	5,004E-02	1,182E-01
14	CD-109	---	---	---	7,295E-01	1,681E+00
15	SN-113	---	---	---	4,694E-02	1,098E-01
16	SB-125	---	---	---	1,131E-01	2,651E-01
17	I-129	---	---	---	6,817E-01	1,576E+00
18	CS-134	---	---	---	4,805E-02	1,128E-01
19	CS-137	---	---	---	4,275E-02	1,009E-01
20	CE-139	---	---	---	3,084E-02	7,162E-02
21	CE-144	---	---	---	2,251E-01	5,207E-01
22	EU-152	---	---	---	1,225E-01	2,861E-01
23	EU-154	---	---	---	2,207E-01	5,225E-01
24	HG-203	---	---	---	3,959E-02	9,177E-02
25	TL-208	8,372E-01	21,4	1,789E-01	4,509E-02	1,066E-01
26	PB-210	---	---	---	8,809E-01	2,032E+00
27	PB-212	2,031E+00	20,9	4,235E-01	6,413E-02	1,488E-01
28	PB-214	9,479E-01	21,9	2,078E-01	8,437E-02	1,970E-01
29	BI-212	2,505E+00	26,1	6,529E-01	5,953E-01	1,406E+00
30	BI-214	8,699E-01	22,2	1,933E-01	1,042E-01	2,440E-01
31	RA-223	---	---	---	7,323E-01	1,708E+00
32	RA-226	---	---	---	7,658E-01	1,772E+00
33	AC-228	---	---	---	1,656E-01	3,928E-01
34	TH-227	---	---	---	2,347E-01	5,764E-01
35	TH-230	---	---	---	8,776E+00	2,100E+01
36	TH-234	---	---	---	8,408E-01	2,122E+00
37	PA-234M	---	---	---	5,222E+00	1,241E+01
38	U-235	---	---	---	2,196E-01	5,083E-01
39	AM-241	---	---	---	9,065E-02	2,085E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 40
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2106195

Bezugsdatum: 17.06.2021 09:30:00	Detektor: GMX4
Messdatum: 17.06.2021 21:30:00	Messzeit: (life) 43200.00 s
Alter der Probe: 43200 Sekunden	Messzeit: (real) 43205.88 s
Probenmasse/Volumen: 0,95	Totzeit: 0.01 %
Nuklidlabelle: RS4_REF3.ISO	Zählrate: 4.093 cps
Ausbeutekurve: RS4REF_1.EFF	Fensterbreite:
Absorbtiionskurve: RS4_L00.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2103T4.NUL	Halbwertsbreite: 0.92 keV - 2.28 keV
Auswertedatum: 18.06.2021 09:58:17	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: L658008/20210617/01 PW1961 21/0970	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	ISO	Amplitude [cpm]	Energie [keV]	Energie [keV]	ERZ [cpm]	RWC [cpm]
1	BE-7	---	---	---	3,872E-01	9,035E-01
2	K-40	2,011E+02	20,5	4,132E+01	5,484E-01	1,308E+00
3	MN-54	---	---	---	5,685E-02	1,330E-01
4	CO-57	---	---	---	3,431E-02	7,907E-02
5	CO-60	---	---	---	7,188E-02	1,698E-01
6	ZN-65	---	---	---	1,490E-01	3,479E-01
7	SE-75	---	---	---	6,775E-02	1,574E-01
8	SR-85	---	---	---	4,344E-02	1,014E-01
9	Y-88	---	---	---	5,176E-02	1,266E-01
10	NB-94	---	---	---	5,739E-02	1,344E-01
11	RU-106	---	---	---	5,174E-01	1,213E+00
12	AG-108M	---	---	---	6,651E-02	1,564E-01
13	AG-110M	---	---	---	5,856E-02	1,377E-01
14	CD-109	---	---	---	8,809E-01	2,025E+00
15	SN-113	---	---	---	5,837E-02	1,358E-01
16	SB-125	---	---	---	1,339E-01	3,126E-01
17	I-129	---	---	---	8,644E-01	1,991E+00
18	CS-134	---	---	---	5,341E-02	1,251E-01
19	CS-137	---	---	---	5,246E-02	1,230E-01
20	CE-139	---	---	---	3,766E-02	8,716E-02
21	CE-144	---	---	---	2,764E-01	6,373E-01
22	EU-152	---	---	---	1,424E-01	3,315E-01
23	EU-154	---	---	---	2,806E-01	6,593E-01
24	HG-203	---	---	---	4,143E-02	9,604E-02
25	TL-208	8,786E-01	21,4	1,878E-01	5,238E-02	1,233E-01
26	PB-210	---	---	---	1,131E+00	2,599E+00
27	PB-212	2,350E+00	20,8	4,881E-01	7,901E-02	1,826E-01
28	PB-214	1,708E+00	21,0	3,584E-01	9,622E-02	2,241E-01
29	BI-212	2,388E+00	29,0	6,915E-01	8,033E-01	1,879E+00
30	BI-214	1,696E+00	21,3	3,610E-01	1,187E-01	2,771E-01
31	RA-223	---	---	---	8,874E-01	2,061E+00
32	RA-226	---	---	---	8,561E-01	1,978E+00
33	AC-228	4,616E-01	28,9	1,334E-01	2,189E-01	5,139E-01
34	TH-227	---	---	---	2,986E-01	7,297E-01
35	TH-230	---	---	---	1,042E+01	2,488E+01
36	TH-234	---	---	---	1,046E+00	2,631E+00
37	PA-234M	---	---	---	7,339E+00	1,722E+01
38	U-235	---	---	---	2,759E-01	6,362E-01
39	AM-241	---	---	---	1,095E-01	2,512E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 41

Auswertung des Gammaskopimetrischen: T2106289

Bezugsdatum:	24.06.2021 07:15:00	Detektor:	GMX4
Messdatum:	24.06.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.48 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.670 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	25.06.2021 10:36:29	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210624/01 PW1970 21/1052	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Formel (g)	Werte (Bq)	ERG (Bq/l)	DWV (Bq)
1	BE-7	---	---	---	3,458E-01	8,102E-01
2	K-40	1,713E+02	20,5	3,520E+01	4,825E-01	1,159E+00
3	MN-54	---	---	---	4,930E-02	1,160E-01
4	CO-57	---	---	---	3,280E-02	7,565E-02
5	CO-60	---	---	---	6,841E-02	1,619E-01
6	ZN-65	---	---	---	1,445E-01	3,378E-01
7	SE-75	---	---	---	6,295E-02	1,465E-01
8	SR-85	---	---	---	4,371E-02	1,020E-01
9	Y-88	---	---	---	4,617E-02	1,140E-01
10	NB-94	---	---	---	5,284E-02	1,241E-01
11	RU-106	---	---	---	4,955E-01	1,164E+00
12	AG-108M	---	---	---	6,162E-02	1,454E-01
13	AG-110M	---	---	---	5,680E-02	1,337E-01
14	CD-109	---	---	---	8,545E-01	1,966E+00
15	SN-113	---	---	---	5,551E-02	1,294E-01
16	SB-125	---	---	---	1,262E-01	2,952E-01
17	I-129	---	---	---	8,260E-01	1,904E+00
18	CS-134	---	---	---	4,977E-02	1,169E-01
19	CS-137	---	---	---	5,106E-02	1,198E-01
20	CE-139	---	---	---	3,682E-02	8,526E-02
21	CE-144	---	---	---	2,575E-01	5,946E-01
22	EU-152	---	---	---	1,462E-01	3,402E-01
23	EU-154	---	---	---	2,565E-01	6,048E-01
24	HG-203	---	---	---	4,271E-02	9,893E-02
25	TL-208	8,468E-01	21,6	1,827E-01	5,561E-02	1,306E-01
26	PB-210	---	---	---	1,068E+00	2,456E+00
27	PB-212	2,113E+00	20,9	4,415E-01	7,831E-02	1,811E-01
28	PB-214	9,322E-01	21,9	2,041E-01	9,945E-02	2,314E-01
29	BI-212	3,206E+00	26,0	8,325E-01	6,873E-01	1,617E+00
30	BI-214	9,141E-01	22,7	2,072E-01	1,168E-01	2,728E-01
31	RA-223	---	---	---	8,067E-01	1,879E+00
32	RA-226	---	---	---	8,402E-01	1,943E+00
33	AC-228	---	---	---	2,073E-01	4,879E-01
34	TH-227	---	---	---	2,765E-01	6,770E-01
35	TH-230	---	---	---	9,382E+00	2,244E+01
36	TH-234	---	---	---	9,987E-01	2,515E+00
37	PA-234M	---	---	---	7,271E+00	1,707E+01
38	U-235	---	---	---	2,567E-01	5,927E-01
39	AM-241	---	---	---	1,036E-01	2,380E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 42

Auswertung des Gammaskpektrums: T2107014

Bezugsdatum:	01.07.2021 07:10:00	Detektor:	GMX4
Messdatum:	01.07.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.26 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.441 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	02.07.2021 08:01:14	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210701/01 PW1988 21/1127	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Wirkungswert [Bq]	Lebensdauer [a]	Erhaltene [Bq]	Ergebnis [Bq]	NWB [Bq]
1	BE-7	---	---	---	3,713E-01	8,678E-01
2	K-40	1,333E+02	20,6	2,742E+01	5,512E-01	1,314E+00
3	MN-54	---	---	---	5,034E-02	1,183E-01
4	CO-57	---	---	---	3,245E-02	7,485E-02
5	CO-60	---	---	---	6,912E-02	1,635E-01
6	ZN-65	---	---	---	1,322E-01	3,100E-01
7	SE-75	---	---	---	6,035E-02	1,407E-01
8	SR-85	---	---	---	4,387E-02	1,023E-01
9	Y-88	---	---	---	5,122E-02	1,254E-01
10	NB-94	---	---	---	4,530E-02	1,071E-01
11	RU-106	---	---	---	4,475E-01	1,055E+00
12	AG-108M	---	---	---	6,090E-02	1,437E-01
13	AG-110M	---	---	---	4,963E-02	1,175E-01
14	CD-109	---	---	---	8,112E-01	1,868E+00
15	SN-113	---	---	---	5,524E-02	1,287E-01
16	SB-125	---	---	---	1,221E-01	2,858E-01
17	I-129	---	---	---	7,687E-01	1,775E+00
18	CS-134	---	---	---	5,348E-02	1,253E-01
19	CS-137	---	---	---	4,988E-02	1,172E-01
20	CE-139	---	---	---	3,642E-02	8,435E-02
21	CE-144	---	---	---	2,449E-01	5,661E-01
22	EU-152	---	---	---	1,365E-01	3,183E-01
23	EU-154	---	---	---	2,525E-01	5,958E-01
24	HG-203	---	---	---	4,357E-02	1,009E-01
25	TL-208	8,302E-01	21,5	1,784E-01	5,304E-02	1,248E-01
26	PB-210	---	---	---	1,013E+00	2,331E+00
27	PB-212	2,369E+00	20,8	4,938E-01	7,465E-02	1,728E-01
28	PB-214	1,442E+00	21,2	3,054E-01	9,299E-02	2,168E-01
29	BI-212	2,479E+00	27,5	6,809E-01	6,843E-01	1,610E+00
30	BI-214	1,315E+00	21,5	2,821E-01	1,092E-01	2,557E-01
31	RA-223	---	---	---	8,257E-01	1,922E+00
32	RA-226	---	---	---	8,361E-01	1,933E+00
33	AC-228	---	---	---	2,118E-01	4,980E-01
34	TH-227	---	---	---	2,686E-01	6,581E-01
35	TH-230	---	---	---	9,323E+00	2,230E+01
36	TH-234	---	---	---	9,573E-01	2,413E+00
37	PA-234M	---	---	---	6,792E+00	1,599E+01
38	U-235	---	---	---	2,465E-01	5,696E-01
39	AM-241	---	---	---	1,029E-01	2,363E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 43

Auswertung des Gammaskpektrums: T2107048

Bezugsdatum: 08.07.2021 07:15:00 Messdatum: 08.07.2021 19:15:00 Alter der Probe: 43200 Sekunden Probenmasse/Volumen: 0,95 Nuklidtabelle: RS4_REF3.ISO Ausbeutekurve: RS4REF_1.EFF Absorbtionskurve: RS4_L00.ABS Nulldatei: UR2103T4.NUL Auswertedatum: 09.07.2021 08:03:35 Kommentar: L658008/20210708/01 PW1990 21/1162	Detektor: GMX4 Messzeit: (life) 43200.00 s Messzeit: (real) 43204.96 s Totzeit: 0.01 % Zählrate: 3.142 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.92 keV - 2.28 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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N	Isotop	Aktivität [Bq]	Effizienz [%]	Erwartete [Bq]	EWG [Bq]	HWG [Bq]
1	BE-7	---	---	---	3,620E-01	8,467E-01
2	K-40	1,220E+02	20,6	2,510E+01	5,537E-01	1,320E+00
3	MN-54	---	---	---	4,810E-02	1,133E-01
4	CO-57	---	---	---	2,965E-02	6,854E-02
5	CO-60	---	---	---	5,672E-02	1,355E-01
6	ZN-65	---	---	---	1,241E-01	2,917E-01
7	SE-75	---	---	---	5,904E-02	1,377E-01
8	SR-85	---	---	---	4,088E-02	9,561E-02
9	Y-88	---	---	---	5,433E-02	1,324E-01
10	NB-94	---	---	---	4,784E-02	1,128E-01
11	RU-106	---	---	---	4,343E-01	1,025E+00
12	AG-108M	---	---	---	5,959E-02	1,408E-01
13	AG-110M	---	---	---	5,341E-02	1,261E-01
14	CD-109	---	---	---	8,021E-01	1,847E+00
15	SN-113	---	---	---	5,002E-02	1,170E-01
16	SB-125	---	---	---	1,188E-01	2,785E-01
17	I-129	---	---	---	7,206E-01	1,666E+00
18	CS-134	---	---	---	4,943E-02	1,161E-01
19	CS-137	---	---	---	4,974E-02	1,169E-01
20	CE-139	---	---	---	3,561E-02	8,252E-02
21	CE-144	---	---	---	2,405E-01	5,560E-01
22	EU-152	---	---	---	1,263E-01	2,951E-01
23	EU-154	---	---	---	2,504E-01	5,909E-01
24	HG-203	---	---	---	4,015E-02	9,315E-02
25	TL-208	8,009E-01	21,5	1,724E-01	5,225E-02	1,230E-01
26	PB-210	---	---	---	9,744E-01	2,245E+00
27	PB-212	2,303E+00	20,8	4,796E-01	6,948E-02	1,611E-01
28	PB-214	6,353E-01	23,7	1,505E-01	9,103E-02	2,124E-01
29	BI-212	2,642E+00	26,1	6,890E-01	6,437E-01	1,519E+00
30	BI-214	6,105E-01	25,3	1,542E-01	1,076E-01	2,520E-01
31	RA-223	---	---	---	8,217E-01	1,913E+00
32	RA-226	---	---	---	8,132E-01	1,882E+00
33	AC-228	---	---	---	1,829E-01	4,327E-01
34	TH-227	---	---	---	2,555E-01	6,268E-01
35	TH-230	---	---	---	9,540E+00	2,281E+01
36	TH-234	---	---	---	9,285E-01	2,341E+00
37	PA-234M	---	---	---	6,341E+00	1,497E+01
38	U-235	---	---	---	2,378E-01	5,499E-01
39	AM-241	---	---	---	9,666E-02	2,223E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 44
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopetrums: T2107130

Bezugsdatum:	15.07.2021 07:10:00	Detektor:	GMX4
Messdatum:	15.07.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.34 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.547 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.07.2021 08:07:02	Peaksuch-Parameter:	2.50 / 2.50 (20.keV - 2000 keV)
Kommentar:	L658008/20210715/01 PW1995 21/1241	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AMU (g/l)	Faktor (g/l)	Peak (keV)	ERG (g/l)	INWG (g/l)
1	BE-7	---	---	---	3,604E-01	8,431E-01
2	K-40	1,437E+02	20,6	2,955E+01	5,401E-01	1,289E+00
3	MN-54	---	---	---	4,743E-02	1,118E-01
4	CO-57	---	---	---	3,325E-02	7,667E-02
5	CO-60	---	---	---	6,721E-02	1,592E-01
6	ZN-65	---	---	---	1,346E-01	3,154E-01
7	SE-75	---	---	---	6,129E-02	1,428E-01
8	SR-85	---	---	---	4,067E-02	9,513E-02
9	Y-88	---	---	---	4,848E-02	1,192E-01
10	NB-94	---	---	---	4,741E-02	1,118E-01
11	RU-106	---	---	---	4,923E-01	1,156E+00
12	AG-108M	---	---	---	5,818E-02	1,376E-01
13	AG-110M	---	---	---	5,541E-02	1,306E-01
14	CD-109	---	---	---	8,494E-01	1,954E+00
15	SN-113	---	---	---	5,615E-02	1,308E-01
16	SB-125	---	---	---	1,281E-01	2,995E-01
17	I-129	---	---	---	7,947E-01	1,834E+00
18	CS-134	---	---	---	5,251E-02	1,231E-01
19	CS-137	---	---	---	4,757E-02	1,120E-01
20	CE-139	---	---	---	3,460E-02	8,024E-02
21	CE-144	---	---	---	2,431E-01	5,619E-01
22	EU-152	---	---	---	1,351E-01	3,150E-01
23	EU-154	---	---	---	2,477E-01	5,849E-01
24	HG-203	---	---	---	4,340E-02	1,005E-01
25	TL-208	9,849E-01	21,3	2,100E-01	5,338E-02	1,256E-01
26	PB-210	---	---	---	1,038E+00	2,389E+00
27	PB-212	2,245E+00	20,8	4,664E-01	7,303E-02	1,691E-01
28	PB-214	1,415E+00	21,1	2,989E-01	9,813E-02	2,285E-01
29	BI-212	2,340E+00	26,6	6,219E-01	7,138E-01	1,677E+00
30	BI-214	1,440E+00	21,4	3,086E-01	1,126E-01	2,635E-01
31	RA-223	---	---	---	8,528E-01	1,983E+00
32	RA-226	---	---	---	8,584E-01	1,984E+00
33	AC-228	---	---	---	1,934E-01	4,565E-01
34	TH-227	---	---	---	2,683E-01	6,575E-01
35	TH-230	---	---	---	1,018E+01	2,431E+01
36	TH-234	---	---	---	1,004E+00	2,528E+00
37	PA-234M	---	---	---	7,034E+00	1,653E+01
38	U-235	---	---	---	2,469E-01	5,707E-01
39	AM-241	---	---	---	1,016E-01	2,334E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 45

Auswertung des Gammaskopimetrischen: T2107273

Bezugsdatum:	22.07.2021 07:15:00	Detektor:	GMX4
Messdatum:	22.07.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.13 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.353 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	23.07.2021 09:40:48	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210722/01 PW2007 21/1374	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AMPAK [cpd]	Fehler [%]	Faktor [cpd]	ERG [cpd]	DWG [cpd]
1	BE-7	---	---	---	3,580E-01	8,377E-01
2	K-40	1,421E+02	20,6	2,921E+01	4,936E-01	1,184E+00
3	MN-54	---	---	---	4,633E-02	1,093E-01
4	CO-57	---	---	---	3,190E-02	7,362E-02
5	CO-60	---	---	---	6,271E-02	1,491E-01
6	ZN-65	---	---	---	1,276E-01	2,996E-01
7	SE-75	---	---	---	5,914E-02	1,379E-01
8	SR-85	---	---	---	4,057E-02	9,492E-02
9	Y-88	---	---	---	4,247E-02	1,056E-01
10	NB-94	---	---	---	5,190E-02	1,220E-01
11	RU-106	---	---	---	4,837E-01	1,137E+00
12	AG-108M	---	---	---	5,390E-02	1,279E-01
13	AG-110M	---	---	---	5,355E-02	1,264E-01
14	CD-109	---	---	---	8,186E-01	1,885E+00
15	SN-113	---	---	---	5,384E-02	1,256E-01
16	SB-125	---	---	---	1,248E-01	2,919E-01
17	I-129	---	---	---	7,804E-01	1,801E+00
18	CS-134	---	---	---	4,829E-02	1,135E-01
19	CS-137	---	---	---	5,001E-02	1,175E-01
20	CE-139	---	---	---	3,561E-02	8,252E-02
21	CE-144	---	---	---	2,484E-01	5,741E-01
22	EU-152	---	---	---	1,330E-01	3,102E-01
23	EU-154	---	---	---	2,296E-01	5,440E-01
24	HG-203	---	---	---	3,949E-02	9,167E-02
25	TL-208	8,264E-01	21,6	1,788E-01	5,180E-02	1,220E-01
26	PB-210	---	---	---	1,029E+00	2,368E+00
27	PB-212	2,217E+00	20,9	4,630E-01	7,112E-02	1,648E-01
28	PB-214	8,524E-01	22,1	1,888E-01	9,409E-02	2,193E-01
29	BI-212	2,398E+00	26,8	6,434E-01	6,515E-01	1,536E+00
30	BI-214	8,056E-01	22,9	1,846E-01	1,098E-01	2,570E-01
31	RA-223	---	---	---	8,301E-01	1,932E+00
32	RA-226	---	---	---	8,128E-01	1,881E+00
33	AC-228	---	---	---	1,972E-01	4,651E-01
34	TH-227	---	---	---	2,609E-01	6,397E-01
35	TH-230	---	---	---	9,745E+00	2,329E+01
36	TH-234	---	---	---	9,437E-01	2,379E+00
37	PA-234M	---	---	---	6,923E+00	1,628E+01
38	U-235	---	---	---	2,484E-01	5,740E-01
39	AM-241	---	---	---	9,855E-02	2,265E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 46
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2107318

Bezugsdatum:	29.07.2021 07:05:00	Detektor:	GMX4
Messdatum:	29.07.2021 19:05:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.27 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.453 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	30.07.2021 09:59:22	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210729/01 PW2013 21/1409	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq/l)	Effizienz (%)	Faktor (Bq/l)	EKG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	3,483E-01	8,158E-01
2	K-40	1,384E+02	20,6	2,846E+01	5,271E-01	1,259E+00
3	MN-54	---	---	---	4,906E-02	1,154E-01
4	CO-57	---	---	---	3,173E-02	7,323E-02
5	CO-60	---	---	---	6,648E-02	1,576E-01
6	ZN-65	---	---	---	1,353E-01	3,171E-01
7	SE-75	---	---	---	6,317E-02	1,471E-01
8	SR-85	---	---	---	3,791E-02	8,892E-02
9	Y-88	---	---	---	4,904E-02	1,205E-01
10	NB-94	---	---	---	4,871E-02	1,148E-01
11	RU-106	---	---	---	4,891E-01	1,149E+00
12	AG-108M	---	---	---	6,234E-02	1,470E-01
13	AG-110M	---	---	---	5,456E-02	1,287E-01
14	CD-109	---	---	---	8,028E-01	1,849E+00
15	SN-113	---	---	---	5,505E-02	1,283E-01
16	SB-125	---	---	---	1,193E-01	2,796E-01
17	I-129	---	---	---	7,791E-01	1,798E+00
18	CS-134	---	---	---	4,918E-02	1,155E-01
19	CS-137	---	---	---	4,907E-02	1,154E-01
20	CE-139	---	---	---	3,664E-02	8,485E-02
21	CE-144	---	---	---	2,528E-01	5,839E-01
22	EU-152	---	---	---	1,482E-01	3,446E-01
23	EU-154	---	---	---	2,645E-01	6,229E-01
24	HG-203	---	---	---	4,000E-02	9,282E-02
25	TL-208	8,281E-01	21,4	1,775E-01	5,064E-02	1,194E-01
26	PB-210	---	---	---	9,954E-01	2,292E+00
27	PB-212	2,322E+00	20,8	4,836E-01	6,984E-02	1,619E-01
28	PB-214	1,227E+00	21,3	2,618E-01	9,540E-02	2,223E-01
29	BI-212	2,301E+00	28,7	6,600E-01	7,229E-01	1,697E+00
30	BI-214	1,228E+00	21,6	2,651E-01	1,120E-01	2,621E-01
31	RA-223	---	---	---	8,171E-01	1,903E+00
32	RA-226	---	---	---	8,348E-01	1,930E+00
33	AC-228	4,957E-01	27,5	1,361E-01	1,952E-01	4,606E-01
34	TH-227	---	---	---	2,557E-01	6,274E-01
35	TH-230	---	---	---	9,030E+00	2,161E+01
36	TH-234	---	---	---	9,288E-01	2,342E+00
37	PA-234M	---	---	---	6,979E+00	1,641E+01
38	U-235	---	---	---	2,544E-01	5,876E-01
39	AM-241	---	---	---	9,940E-02	2,285E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 47
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2108040

Bezugsdatum:	05.08.2021 07:00:00	Detektor:	GMX4
Messdatum:	05.08.2021 19:00:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.08 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.225 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	06.08.2021 09:12:31	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210805/01 PW2018 21/1453	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq/l)	Fehler (%)	Faktor (Bq/l)	EKG (Bq/l)	NWU (Bq/l)
1	BE-7	---	---	---	3,304E-01	7,756E-01
2	K-40	1,155E+02	20,6	2,375E+01	5,063E-01	1,213E+00
3	MN-54	---	---	---	4,715E-02	1,111E-01
4	CO-57	---	---	---	3,196E-02	7,376E-02
5	CO-60	---	---	---	5,786E-02	1,381E-01
6	ZN-65	---	---	---	1,201E-01	2,827E-01
7	SE-75	---	---	---	5,840E-02	1,362E-01
8	SR-85	---	---	---	4,269E-02	9,969E-02
9	Y-88	---	---	---	4,558E-02	1,126E-01
10	NB-94	---	---	---	5,068E-02	1,192E-01
11	RU-106	---	---	---	4,591E-01	1,081E+00
12	AG-108M	---	---	---	5,604E-02	1,327E-01
13	AG-110M	---	---	---	5,611E-02	1,322E-01
14	CD-109	---	---	---	8,178E-01	1,883E+00
15	SN-113	---	---	---	5,567E-02	1,297E-01
16	SB-125	---	---	---	1,243E-01	2,908E-01
17	I-129	---	---	---	7,580E-01	1,751E+00
18	CS-134	---	---	---	4,689E-02	1,104E-01
19	CS-137	---	---	---	4,658E-02	1,098E-01
20	CE-139	---	---	---	3,385E-02	7,854E-02
21	CE-144	---	---	---	2,529E-01	5,842E-01
22	EU-152	---	---	---	1,331E-01	3,104E-01
23	EU-154	---	---	---	2,308E-01	5,467E-01
24	HG-203	---	---	---	3,928E-02	9,119E-02
25	TL-208	8,738E-01	21,4	1,869E-01	5,146E-02	1,212E-01
26	PB-210	---	---	---	9,619E-01	2,217E+00
27	PB-212	2,157E+00	20,8	4,482E-01	7,006E-02	1,624E-01
28	PB-214	1,194E+00	21,3	2,548E-01	9,208E-02	2,148E-01
29	BI-212	2,092E+00	29,5	6,177E-01	6,605E-01	1,557E+00
30	BI-214	1,102E+00	21,8	2,400E-01	1,012E-01	2,376E-01
31	RA-223	---	---	---	7,747E-01	1,807E+00
32	RA-226	---	---	---	8,463E-01	1,957E+00
33	AC-228	3,840E-01	28,3	1,088E-01	1,886E-01	4,456E-01
34	TH-227	---	---	---	2,549E-01	6,255E-01
35	TH-230	---	---	---	9,146E+00	2,189E+01
36	TH-234	---	---	---	9,389E-01	2,367E+00
37	PA-234M	---	---	---	6,716E+00	1,581E+01
38	U-235	---	---	---	2,440E-01	5,641E-01
39	AM-241	---	---	---	9,940E-02	2,284E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 48

Auswertung des Gammaskpektrums: T2108076

Bezugsdatum:	12.08.2021 07:00:00	Detektor:	GMX4
Messdatum:	12.08.2021 19:00:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.96 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.169 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	13.08.2021 09:47:53	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210812/01 PW2025 21/1479	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (Bq)	Effizienz (%)	Effizienz (1/g)	EKG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	3,466E-01	8,121E-01
2	K-40	1,183E+02	20,6	2,433E+01	4,743E-01	1,140E+00
3	MN-54	---	---	---	4,491E-02	1,061E-01
4	CO-57	---	---	---	3,125E-02	7,216E-02
5	CO-60	---	---	---	5,408E-02	1,296E-01
6	ZN-65	---	---	---	1,251E-01	2,940E-01
7	SE-75	---	---	---	5,727E-02	1,337E-01
8	SR-85	---	---	---	3,915E-02	9,172E-02
9	Y-88	---	---	---	4,848E-02	1,192E-01
10	NB-94	---	---	---	4,770E-02	1,125E-01
11	RU-106	---	---	---	4,498E-01	1,060E+00
12	AG-108M	---	---	---	5,732E-02	1,356E-01
13	AG-110M	---	---	---	5,312E-02	1,254E-01
14	CD-109	---	---	---	8,075E-01	1,859E+00
15	SN-113	---	---	---	5,083E-02	1,188E-01
16	SB-125	---	---	---	1,193E-01	2,796E-01
17	I-129	---	---	---	7,496E-01	1,732E+00
18	CS-134	---	---	---	4,990E-02	1,172E-01
19	CS-137	---	---	---	5,183E-02	1,216E-01
20	CE-139	---	---	---	3,451E-02	8,003E-02
21	CE-144	---	---	---	2,379E-01	5,502E-01
22	EU-152	---	---	---	1,290E-01	3,011E-01
23	EU-154	---	---	---	2,413E-01	5,703E-01
24	HG-203	---	---	---	4,205E-02	9,744E-02
25	TL-208	8,503E-01	21,5	1,825E-01	4,574E-02	1,083E-01
26	PB-210	---	---	---	1,010E+00	2,325E+00
27	PB-212	2,461E+00	20,8	5,131E-01	6,945E-02	1,611E-01
28	PB-214	9,440E-01	21,5	2,032E-01	9,182E-02	2,142E-01
29	BI-212	2,780E+00	26,9	7,474E-01	6,475E-01	1,527E+00
30	BI-214	9,383E-01	22,0	2,065E-01	1,089E-01	2,551E-01
31	RA-223	---	---	---	7,590E-01	1,771E+00
32	RA-226	---	---	---	8,090E-01	1,872E+00
33	AC-228	---	---	---	1,810E-01	4,285E-01
34	TH-227	---	---	---	2,525E-01	6,196E-01
35	TH-230	---	---	---	9,476E+00	2,266E+01
36	TH-234	---	---	---	8,708E-01	2,199E+00
37	PA-234M	---	---	---	6,481E+00	1,528E+01
38	U-235	---	---	---	2,435E-01	5,629E-01
39	AM-241	---	---	---	9,831E-02	2,260E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 49

Auswertung des Gammaskopimetrischen: T2108111

Bezugsdatum:	19.08.2021 07:15:00	Detektor:	GMX4
Messdatum:	19.08.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.91 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.073 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	20.08.2021 08:19:30	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210819/01 PW2029 21/1517	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	AK (Wkt) [Bq/l]	Formul. [g/l]	Frakt. [Bq/l]	ERG [Bq/l]	MWG [Bq/l]
1	BE-7	---	---	---	3,425E-01	8,027E-01
2	K-40	1,053E+02	20,6	2,167E+01	5,779E-01	1,374E+00
3	MN-54	---	---	---	4,619E-02	1,090E-01
4	CO-57	---	---	---	2,918E-02	6,747E-02
5	CO-60	---	---	---	5,897E-02	1,406E-01
6	ZN-65	---	---	---	1,300E-01	3,052E-01
7	SE-75	---	---	---	5,660E-02	1,322E-01
8	SR-85	---	---	---	4,128E-02	9,652E-02
9	Y-88	---	---	---	4,247E-02	1,056E-01
10	NB-94	---	---	---	4,828E-02	1,138E-01
11	RU-106	---	---	---	4,343E-01	1,025E+00
12	AG-108M	---	---	---	5,721E-02	1,354E-01
13	AG-110M	---	---	---	5,238E-02	1,237E-01
14	CD-109	---	---	---	7,706E-01	1,776E+00
15	SN-113	---	---	---	4,920E-02	1,151E-01
16	SB-125	---	---	---	1,201E-01	2,813E-01
17	I-129	---	---	---	7,081E-01	1,638E+00
18	CS-134	---	---	---	4,493E-02	1,059E-01
19	CS-137	---	---	---	4,687E-02	1,104E-01
20	CE-139	---	---	---	3,269E-02	7,591E-02
21	CE-144	---	---	---	2,342E-01	5,418E-01
22	EU-152	---	---	---	1,331E-01	3,106E-01
23	EU-154	---	---	---	2,417E-01	5,712E-01
24	HG-203	---	---	---	4,236E-02	9,815E-02
25	TL-208	8,907E-01	21,5	1,914E-01	4,823E-02	1,139E-01
26	PB-210	---	---	---	9,474E-01	2,184E+00
27	PB-212	2,224E+00	20,8	4,632E-01	6,732E-02	1,562E-01
28	PB-214	7,464E-01	22,3	1,661E-01	9,176E-02	2,141E-01
29	BI-212	2,963E+00	24,9	7,373E-01	6,689E-01	1,576E+00
30	BI-214	7,279E-01	24,2	1,758E-01	1,061E-01	2,487E-01
31	RA-223	---	---	---	7,649E-01	1,785E+00
32	RA-226	---	---	---	8,254E-01	1,909E+00
33	AC-228	---	---	---	1,893E-01	4,471E-01
34	TH-227	---	---	---	2,551E-01	6,258E-01
35	TH-230	---	---	---	9,426E+00	2,254E+01
36	TH-234	---	---	---	9,164E-01	2,311E+00
37	PA-234M	---	---	---	5,920E+00	1,402E+01
38	U-235	---	---	---	2,435E-01	5,630E-01
39	AM-241	---	---	---	9,682E-02	2,226E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 50

Auswertung des Gammaskpektrums: T2108142

Bezugsdatum:	26.08.2021 07:25:00	Detektor:	GMX4
Messdatum:	26.08.2021 19:25:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.91 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.058 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	27.08.2021 08:33:59	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210826/01 PW2032 21/1537	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	Aktivität (Bq)	Fehler (%)	Fehler (Bq)	HKG (Bq)	NWG (Bq)
1	BE-7	---	---	---	3,408E-01	7,990E-01
2	K-40	9,657E+01	20,6	1,988E+01	5,337E-01	1,274E+00
3	MN-54	---	---	---	4,491E-02	1,061E-01
4	CO-57	---	---	---	2,950E-02	6,820E-02
5	CO-60	---	---	---	5,672E-02	1,355E-01
6	ZN-65	---	---	---	1,213E-01	2,854E-01
7	SE-75	---	---	---	5,594E-02	1,307E-01
8	SR-85	---	---	---	3,892E-02	9,119E-02
9	Y-88	---	---	---	4,734E-02	1,166E-01
10	NB-94	---	---	---	4,540E-02	1,073E-01
11	RU-106	---	---	---	4,391E-01	1,036E+00
12	AG-108M	---	---	---	5,489E-02	1,301E-01
13	AG-110M	---	---	---	4,754E-02	1,128E-01
14	CD-109	---	---	---	7,558E-01	1,743E+00
15	SN-113	---	---	---	5,240E-02	1,224E-01
16	SB-125	---	---	---	1,157E-01	2,715E-01
17	I-129	---	---	---	7,276E-01	1,682E+00
18	CS-134	---	---	---	4,836E-02	1,137E-01
19	CS-137	---	---	---	4,514E-02	1,065E-01
20	CE-139	---	---	---	3,279E-02	7,614E-02
21	CE-144	---	---	---	2,327E-01	5,384E-01
22	EU-152	---	---	---	1,337E-01	3,118E-01
23	EU-154	---	---	---	2,294E-01	5,434E-01
24	HG-203	---	---	---	3,878E-02	9,006E-02
25	TL-208	8,434E-01	21,4	1,804E-01	5,048E-02	1,190E-01
26	PB-210	---	---	---	9,137E-01	2,108E+00
27	PB-212	2,192E+00	20,9	4,575E-01	6,770E-02	1,571E-01
28	PB-214	1,050E+00	21,6	2,270E-01	8,838E-02	2,064E-01
29	BI-212	2,196E+00	27,4	6,019E-01	6,571E-01	1,549E+00
30	BI-214	9,338E-01	22,0	2,058E-01	1,123E-01	2,628E-01
31	RA-223	---	---	---	7,907E-01	1,843E+00
32	RA-226	---	---	---	8,323E-01	1,925E+00
33	AC-228	5,609E-01	25,6	1,434E-01	1,870E-01	4,419E-01
34	TH-227	---	---	---	2,618E-01	6,418E-01
35	TH-230	---	---	---	9,350E+00	2,237E+01
36	TH-234	---	---	---	9,143E-01	2,306E+00
37	PA-234M	---	---	---	6,320E+00	1,492E+01
38	U-235	---	---	---	2,471E-01	5,711E-01
39	AM-241	---	---	---	9,624E-02	2,213E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 51
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2109017

Bezugsdatum: 01.09.2021 07:20:00	Detektor: GMX4
Messdatum: 01.09.2021 19:20:00	Messzeit: (life) 43200.00 s
Alter der Probe: 43200 Sekunden	Messzeit: (real) 43204.76 s
Probenmasse/Volumen: 0,95	Totzeit: 0.01 %
Nuklidtabelle: RS4_REF3.ISO	Zählrate: 2.968 cps
Ausbeutekurve: RS4REF_1.EFF	Fensterbreite:
Absorbtionskurve: RS4_L00.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2108T4.NUL	Halbwertsbreite: 0.92 keV - 2.28 keV
Auswertedatum: 02.09.2021 08:51:08	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: L658008/20210901/01 PW2033 21/1595	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Nuklid	AM (Bq/l)	Effiz. (%)	Effiz. (rel.)	FKG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	3,383E-01	7,933E-01
2	K-40	9,946E+01	20,6	2,047E+01	4,977E-01	1,193E+00
3	MN-54	---	---	---	4,131E-02	9,796E-02
4	CO-57	---	---	---	2,945E-02	6,809E-02
5	CO-60	---	---	---	6,450E-02	1,531E-01
6	ZN-65	---	---	---	1,155E-01	2,724E-01
7	SE-75	---	---	---	5,560E-02	1,299E-01
8	SR-85	---	---	---	3,679E-02	8,640E-02
9	Y-88	---	---	---	4,182E-02	1,041E-01
10	NB-94	---	---	---	4,530E-02	1,071E-01
11	RU-106	---	---	---	4,144E-01	9,803E-01
12	AG-108M	---	---	---	5,478E-02	1,299E-01
13	AG-110M	---	---	---	4,915E-02	1,164E-01
14	CD-109	---	---	---	7,473E-01	1,723E+00
15	SN-113	---	---	---	5,172E-02	1,208E-01
16	SB-125	---	---	---	1,114E-01	2,618E-01
17	I-129	---	---	---	7,238E-01	1,673E+00
18	CS-134	---	---	---	4,557E-02	1,074E-01
19	CS-137	---	---	---	4,658E-02	1,098E-01
20	CE-139	---	---	---	3,216E-02	7,471E-02
21	CE-144	---	---	---	2,409E-01	5,570E-01
22	EU-152	---	---	---	1,294E-01	3,022E-01
23	EU-154	---	---	---	2,326E-01	5,508E-01
24	HG-203	---	---	---	4,123E-02	9,560E-02
25	TL-208	8,250E-01	21,5	1,771E-01	5,042E-02	1,189E-01
26	PB-210	---	---	---	9,267E-01	2,137E+00
27	PB-212	2,392E+00	20,7	4,961E-01	6,218E-02	1,446E-01
28	PB-214	8,959E-01	21,7	1,944E-01	8,710E-02	2,036E-01
29	BI-212	2,512E+00	28,4	7,130E-01	6,746E-01	1,589E+00
30	BI-214	8,981E-01	22,3	2,007E-01	1,024E-01	2,404E-01
31	RA-223	---	---	---	7,709E-01	1,798E+00
32	RA-226	---	---	---	8,198E-01	1,897E+00
33	AC-228	5,318E-01	26,1	1,387E-01	1,704E-01	4,045E-01
34	TH-227	---	---	---	2,424E-01	5,956E-01
35	TH-230	---	---	---	9,988E+00	2,387E+01
36	TH-234	---	---	---	9,108E-01	2,297E+00
37	PA-234M	---	---	---	6,113E+00	1,445E+01
38	U-235	---	---	---	2,352E-01	5,442E-01
39	AM-241	---	---	---	9,423E-02	2,168E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 52
NNAA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2109064

Bezugsdatum: 09.09.2021 07:15:00	Detektor: GMX4
Messdatum: 09.09.2021 19:15:00	Messzeit: (life) 43200.00 s
Alter der Probe: 43200 Sekunden	Messzeit: (real) 43204.93 s
Probenmasse/Volumen: 0,95	Totzeit: 0.01 %
Nuklidtabelle: RS4_REF3.ISO	Zählrate: 3.068 cps
Ausbeutekurve: RS4REF_1.EFF	Fensterbreite:
Absorbtionskurve: RS4_L00.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2108T4.NUL	Halbwertsbreite: 0.92 keV - 2.28 keV
Auswertedatum: 10.09.2021 08:04:23	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: L658008/20210909/01 PW 2036 21/1631	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (Bq)	Effizienz (%)	Faktor (Bq)	EKG (Bq)	NWB (Bq)
1	BE-7	---	---	---	3,491E-01	8,177E-01
2	K-40	9,238E+01	20,6	1,902E+01	6,020E-01	1,429E+00
3	MN-54	---	---	---	5,107E-02	1,200E-01
4	CO-57	---	---	---	2,936E-02	6,788E-02
5	CO-60	---	---	---	5,468E-02	1,309E-01
6	ZN-65	---	---	---	1,237E-01	2,909E-01
7	SE-75	---	---	---	5,823E-02	1,359E-01
8	SR-85	---	---	---	3,892E-02	9,120E-02
9	Y-88	---	---	---	4,676E-02	1,153E-01
10	NB-94	---	---	---	5,026E-02	1,183E-01
11	RU-106	---	---	---	4,220E-01	9,974E-01
12	AG-108M	---	---	---	5,976E-02	1,412E-01
13	AG-110M	---	---	---	5,238E-02	1,237E-01
14	CD-109	---	---	---	7,599E-01	1,752E+00
15	SN-113	---	---	---	5,063E-02	1,183E-01
16	SB-125	---	---	---	1,165E-01	2,732E-01
17	I-129	---	---	---	7,301E-01	1,687E+00
18	CS-134	---	---	---	4,975E-02	1,168E-01
19	CS-137	---	---	---	4,798E-02	1,129E-01
20	CE-139	---	---	---	3,442E-02	7,982E-02
21	CE-144	---	---	---	2,248E-01	5,206E-01
22	EU-152	---	---	---	1,303E-01	3,042E-01
23	EU-154	---	---	---	2,518E-01	5,942E-01
24	HG-203	---	---	---	4,121E-02	9,555E-02
25	TL-208	8,110E-01	21,7	1,756E-01	5,466E-02	1,285E-01
26	PB-210	---	---	---	9,552E-01	2,201E+00
27	PB-212	2,241E+00	20,8	4,665E-01	6,754E-02	1,567E-01
28	PB-214	8,858E-01	22,5	1,991E-01	9,296E-02	2,168E-01
29	BI-212	2,620E+00	29,4	7,704E-01	6,740E-01	1,587E+00
30	BI-214	7,192E-01	23,9	1,717E-01	1,128E-01	2,638E-01
31	RA-223	---	---	---	8,022E-01	1,869E+00
32	RA-226	---	---	---	7,971E-01	1,845E+00
33	AC-228	---	---	---	1,780E-01	4,218E-01
34	TH-227	---	---	---	2,524E-01	6,195E-01
35	TH-230	---	---	---	9,956E+00	2,379E+01
36	TH-234	---	---	---	8,875E-01	2,240E+00
37	PA-234M	---	---	---	6,238E+00	1,474E+01
38	U-235	---	---	---	2,493E-01	5,760E-01
39	AM-241	---	---	---	9,486E-02	2,182E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 53

Auswertung des Gammaskopimetrischen: T2109096

Bezugsdatum:	16.09.2021 07:15:00	Detektor:	GMX4
Messdatum:	16.09.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.96 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.107 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	17.09.2021 08:04:26	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210916/01 PW2039 21/1652	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

#	Isotop	Aktivität		Fehler		Richtkoeffizient	
		Bq/l	(%)	Bq/l	(%)	Bq/l	(%)
1	BE-7	---	---	---	---	3,606E-01	8,436E-01
2	K-40	9,596E+01	20,6	1,975E+01	---	5,078E-01	1,216E+00
3	MN-54	---	---	---	---	4,491E-02	1,061E-01
4	CO-57	---	---	---	---	3,045E-02	7,034E-02
5	CO-60	---	---	---	---	5,952E-02	1,419E-01
6	ZN-65	---	---	---	---	1,218E-01	2,867E-01
7	SE-75	---	---	---	---	5,887E-02	1,373E-01
8	SR-85	---	---	---	---	3,756E-02	8,812E-02
9	Y-88	---	---	---	---	4,497E-02	1,113E-01
10	NB-94	---	---	---	---	4,711E-02	1,112E-01
11	RU-106	---	---	---	---	4,564E-01	1,075E+00
12	AG-108M	---	---	---	---	5,817E-02	1,376E-01
13	AG-110M	---	---	---	---	4,899E-02	1,161E-01
14	CD-109	---	---	---	---	7,752E-01	1,787E+00
15	SN-113	---	---	---	---	5,083E-02	1,188E-01
16	SB-125	---	---	---	---	1,185E-01	2,779E-01
17	I-129	---	---	---	---	7,325E-01	1,693E+00
18	CS-134	---	---	---	---	4,546E-02	1,071E-01
19	CS-137	---	---	---	---	4,785E-02	1,126E-01
20	CE-139	---	---	---	---	3,531E-02	8,184E-02
21	CE-144	---	---	---	---	2,379E-01	5,503E-01
22	EU-152	---	---	---	---	1,327E-01	3,096E-01
23	EU-154	---	---	---	---	2,459E-01	5,807E-01
24	HG-203	---	---	---	---	4,274E-02	9,899E-02
25	TL-208	7,764E-01	21,6	1,676E-01	---	5,417E-02	1,274E-01
26	PB-210	---	---	---	---	9,531E-01	2,197E+00
27	PB-212	2,266E+00	20,8	4,705E-01	---	6,661E-02	1,546E-01
28	PB-214	1,187E+00	21,3	2,531E-01	---	9,146E-02	2,134E-01
29	BI-212	2,166E+00	29,1	6,302E-01	---	6,785E-01	1,597E+00
30	BI-214	1,074E+00	21,8	2,337E-01	---	1,056E-01	2,475E-01
31	RA-223	---	---	---	---	7,861E-01	1,833E+00
32	RA-226	---	---	---	---	8,191E-01	1,895E+00
33	AC-228	4,834E-01	26,0	1,258E-01	---	1,749E-01	4,148E-01
34	TH-227	---	---	---	---	2,584E-01	6,337E-01
35	TH-230	---	---	---	---	1,015E+01	2,426E+01
36	TH-234	---	---	---	---	9,239E-01	2,330E+00
37	PA-234M	---	---	---	---	6,441E+00	1,519E+01
38	U-235	---	---	---	---	2,445E-01	5,653E-01
39	AM-241	---	---	---	---	9,594E-02	2,207E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 54

Auswertung des Gammaspektrums: T2109166

Bezugsdatum:	24.09.2021 07:15:00	Detektor:	GMX4
Messdatum:	27.09.2021 17:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	3.42 Tage	Messzeit: (real)	3600.40 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.001 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	27.09.2021 18:36:53	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210924/01 PW2046 21/1717	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AKTIVITÄT [Bq/l]	Faktor [1/s]	Faktor [Bq/l]	ERR [Bq/l]	HWF [Bq]
1	BE-7	---	---	---	9,783E-01	2,566E+00
2	K-40	8,826E+01	21,3	1,876E+01	1,626E+00	4,465E+00
3	MN-54	---	---	---	1,543E-01	4,031E-01
4	CO-57	---	---	---	1,044E-01	2,537E-01
5	CO-60	---	---	---	1,840E-01	5,004E-01
6	ZN-65	---	---	---	4,257E-01	1,097E+00
7	SE-75	---	---	---	1,772E-01	4,465E-01
8	SR-85	---	---	---	1,537E-01	3,868E-01
9	Y-88	---	---	---	1,918E-01	5,443E-01
10	NB-94	---	---	---	1,205E-01	3,282E-01
11	RU-106	---	---	---	1,488E+00	3,857E+00
12	AG-108M	---	---	---	2,054E-01	5,316E-01
13	AG-110M	---	---	---	1,697E-01	4,436E-01
14	CD-109	---	---	---	2,743E+00	6,608E+00
15	SN-113	---	---	---	1,810E-01	4,566E-01
16	SB-125	---	---	---	4,704E-01	1,178E+00
17	I-129	---	---	---	2,300E+00	5,632E+00
18	CS-134	---	---	---	1,563E-01	4,030E-01
19	CS-137	---	---	---	1,437E-01	3,781E-01
20	CE-139	---	---	---	9,038E-02	2,268E-01
21	CE-144	---	---	---	8,120E-01	1,977E+00
22	EU-152	---	---	---	4,291E-01	1,082E+00
23	EU-154	---	---	---	8,955E-01	2,306E+00
24	HG-203	---	---	---	1,348E-01	3,347E-01
25	TL-208	6,331E-01	28,2	1,788E-01	1,141E-01	3,131E-01
26	PB-210	---	---	---	2,803E+00	6,852E+00
27	PB-212	9,234E-01	28,2	2,607E-01	2,353E-01	5,794E-01
28	PB-214	8,832E-01	28,1	2,482E-01	2,795E-01	7,105E-01
29	BI-212	---	---	---	2,518E+00	6,443E+00
30	BI-214	8,788E-01	35,1	3,087E-01	3,786E-01	9,590E-01
31	RA-223	---	---	---	2,880E+00	7,158E+00
32	RA-226	---	---	---	2,637E+00	6,462E+00
33	AC-228	---	---	---	8,648E-01	2,180E+00
34	TH-227	---	---	---	8,113E-01	2,127E+00
35	TH-230	---	---	---	3,032E+01	7,573E+01
36	TH-234	---	---	---	2,501E+00	6,676E+00
37	PA-234M	---	---	---	1,736E+01	4,669E+01
38	U-235	---	---	---	8,201E-01	1,999E+00
39	AM-241	---	---	---	2,884E-01	6,984E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 55
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2109196

Bezugsdatum:	30.09.2021 07:15:00	Detektor:	GMX4
Messdatum:	30.09.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.87 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.008 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	01.10.2021 08:19:43	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20210930/01 PW 2047 21/1742	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq/l]	Halbwertszeit [Tage]	Portion [g/l]	ERL [Bq/l]	NWF [Bq/l]
1	BE-7	---	---	---	3,357E-01	7,875E-01
2	K-40	9,006E+01	20,6	1,854E+01	5,238E-01	1,252E+00
3	MN-54	---	---	---	4,646E-02	1,096E-01
4	CO-57	---	---	---	3,049E-02	7,043E-02
5	CO-60	---	---	---	5,952E-02	1,419E-01
6	ZN-65	---	---	---	1,303E-01	3,058E-01
7	SE-75	---	---	---	5,693E-02	1,329E-01
8	SR-85	---	---	---	4,049E-02	9,474E-02
9	Y-88	---	---	---	4,436E-02	1,099E-01
10	NB-94	---	---	---	4,355E-02	1,031E-01
11	RU-106	---	---	---	4,207E-01	9,946E-01
12	AG-108M	---	---	---	5,609E-02	1,328E-01
13	AG-110M	---	---	---	4,770E-02	1,132E-01
14	CD-109	---	---	---	7,743E-01	1,785E+00
15	SN-113	---	---	---	5,211E-02	1,217E-01
16	SB-125	---	---	---	1,198E-01	2,808E-01
17	I-129	---	---	---	7,029E-01	1,626E+00
18	CS-134	---	---	---	4,300E-02	1,016E-01
19	CS-137	---	---	---	4,529E-02	1,068E-01
20	CE-139	---	---	---	3,341E-02	7,753E-02
21	CE-144	---	---	---	2,417E-01	5,587E-01
22	EU-152	---	---	---	1,302E-01	3,039E-01
23	EU-154	---	---	---	2,406E-01	5,688E-01
24	HG-203	---	---	---	3,809E-02	8,852E-02
25	TL-208	8,105E-01	21,5	1,742E-01	5,367E-02	1,262E-01
26	PB-210	---	---	---	9,524E-01	2,195E+00
27	PB-212	2,324E+00	20,8	4,823E-01	6,384E-02	1,484E-01
28	PB-214	1,301E+00	21,2	2,759E-01	8,565E-02	2,003E-01
29	BI-212	2,602E+00	25,8	6,709E-01	6,170E-01	1,459E+00
30	BI-214	1,202E+00	21,7	2,604E-01	1,027E-01	2,410E-01
31	RA-223	---	---	---	7,633E-01	1,781E+00
32	RA-226	---	---	---	8,184E-01	1,893E+00
33	AC-228	5,669E-01	25,0	1,415E-01	1,901E-01	4,491E-01
34	TH-227	---	---	---	2,379E-01	5,848E-01
35	TH-230	---	---	---	9,639E+00	2,305E+01
36	TH-234	---	---	---	9,071E-01	2,288E+00
37	PA-234M	---	---	---	6,259E+00	1,478E+01
38	U-235	---	---	---	2,432E-01	5,623E-01
39	AM-241	---	---	---	9,348E-02	2,151E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 56

Auswertung des Gammaskpektrums: T2110047

Bezugsdatum:	07.10.2021 07:15:00	Detektor:	GMX4
Messdatum:	07.10.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.69 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.894 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	08.10.2021 07:34:46	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211007/01 PW2050 21/1780	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	ARITHM [cpv]	Faktor [cpv]	Faktor [Bq]	EKG [Bq]	NWCS [Bq]
1	BE-7	---	---	---	3,173E-01	7,460E-01
2	K-40	8,833E+01	20,6	1,818E+01	5,239E-01	1,252E+00
3	MN-54	---	---	---	4,633E-02	1,093E-01
4	CO-57	---	---	---	2,938E-02	6,793E-02
5	CO-60	---	---	---	5,841E-02	1,394E-01
6	ZN-65	---	---	---	1,141E-01	2,692E-01
7	SE-75	---	---	---	5,552E-02	1,297E-01
8	SR-85	---	---	---	3,866E-02	9,060E-02
9	Y-88	---	---	---	4,374E-02	1,085E-01
10	NB-94	---	---	---	4,127E-02	9,799E-02
11	RU-106	---	---	---	4,245E-01	1,003E+00
12	AG-108M	---	---	---	5,328E-02	1,265E-01
13	AG-110M	---	---	---	5,071E-02	1,200E-01
14	CD-109	---	---	---	7,529E-01	1,736E+00
15	SN-113	---	---	---	4,910E-02	1,149E-01
16	SB-125	---	---	---	1,160E-01	2,721E-01
17	I-129	---	---	---	7,099E-01	1,642E+00
18	CS-134	---	---	---	4,684E-02	1,103E-01
19	CS-137	---	---	---	4,558E-02	1,075E-01
20	CE-139	---	---	---	3,369E-02	7,818E-02
21	CE-144	---	---	---	2,257E-01	5,226E-01
22	EU-152	---	---	---	1,261E-01	2,948E-01
23	EU-154	---	---	---	2,246E-01	5,327E-01
24	HG-203	---	---	---	4,201E-02	9,736E-02
25	TL-208	7,502E-01	21,6	1,621E-01	5,209E-02	1,226E-01
26	PB-210	---	---	---	9,323E-01	2,150E+00
27	PB-212	2,196E+00	20,8	4,559E-01	6,479E-02	1,505E-01
28	PB-214	1,106E+00	21,3	2,358E-01	8,870E-02	2,072E-01
29	BI-212	2,805E+00	25,4	7,116E-01	6,159E-01	1,456E+00
30	BI-214	8,920E-01	22,8	2,030E-01	1,087E-01	2,546E-01
31	RA-223	---	---	---	8,078E-01	1,882E+00
32	RA-226	---	---	---	7,690E-01	1,782E+00
33	AC-228	---	---	---	1,882E-01	4,447E-01
34	TH-227	---	---	---	2,441E-01	5,996E-01
35	TH-230	---	---	---	9,433E+00	2,256E+01
36	TH-234	---	---	---	9,110E-01	2,298E+00
37	PA-234M	---	---	---	5,788E+00	1,372E+01
38	U-235	---	---	---	2,378E-01	5,500E-01
39	AM-241	---	---	---	9,231E-02	2,125E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 57

Auswertung des Gammaskpektrums: T2110095

Bezugsdatum: 14.10.2021 07:00:00 Messdatum: 14.10.2021 19:00:00 Alter der Probe: 43200 Sekunden Probenmasse/Volumen: 0,95 Nuklidtabelle: RS4_REF3.ISO Ausbeutekurve: RS4REF_1.EFF Absorbtionskurve: RS4_L00.ABS Nulldatei: UR2108T4.NUL Auswertedatum: 15.10.2021 09:39:15 Kommentar: L658008/20211014/01 PW2054 21/1811 Begleitprobe zur Laugencharakterisierung!	Detektor: GMX4 Messzeit: (life) 43200.00 s Messzeit: (real) 43204.89 s Totzeit: 0.01 % Zählrate: 3.076 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.92 keV - 2.28 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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Nr	Isotop	Aktivität [Bq]	Anteil [%]	Verhältnis [Bq]	HKG [Bq/l]	INWG [Bq/l]
1	BE-7	---	---	---	3,416E-01	8,008E-01
2	K-40	9,254E+01	20,6	1,905E+01	5,236E-01	1,252E+00
3	MN-54	---	---	---	4,605E-02	1,086E-01
4	CO-57	---	---	---	3,027E-02	6,994E-02
5	CO-60	---	---	---	5,586E-02	1,336E-01
6	ZN-65	---	---	---	1,175E-01	2,769E-01
7	SE-75	---	---	---	5,775E-02	1,348E-01
8	SR-85	---	---	---	3,807E-02	8,927E-02
9	Y-88	---	---	---	4,960E-02	1,217E-01
10	NB-94	---	---	---	4,956E-02	1,167E-01
11	RU-106	---	---	---	4,463E-01	1,052E+00
12	AG-108M	---	---	---	5,643E-02	1,336E-01
13	AG-110M	---	---	---	4,981E-02	1,179E-01
14	CD-109	---	---	---	8,019E-01	1,847E+00
15	SN-113	---	---	---	5,211E-02	1,217E-01
16	SB-125	---	---	---	1,208E-01	2,830E-01
17	I-129	---	---	---	7,251E-01	1,676E+00
18	CS-134	---	---	---	4,670E-02	1,099E-01
19	CS-137	---	---	---	4,616E-02	1,088E-01
20	CE-139	---	---	---	3,395E-02	7,875E-02
21	CE-144	---	---	---	2,284E-01	5,288E-01
22	EU-152	---	---	---	1,317E-01	3,074E-01
23	EU-154	---	---	---	2,414E-01	5,706E-01
24	HG-203	---	---	---	3,931E-02	9,125E-02
25	TL-208	8,634E-01	21,4	1,848E-01	5,135E-02	1,210E-01
26	PB-210	---	---	---	9,593E-01	2,211E+00
27	PB-212	2,329E+00	20,8	4,833E-01	6,820E-02	1,582E-01
28	PB-214	1,288E+00	21,2	2,729E-01	8,903E-02	2,079E-01
29	BI-212	3,037E+00	24,5	7,431E-01	6,201E-01	1,466E+00
30	BI-214	1,125E+00	21,8	2,448E-01	1,078E-01	2,526E-01
31	RA-223	---	---	---	7,744E-01	1,806E+00
32	RA-226	---	---	---	8,114E-01	1,877E+00
33	AC-228	6,538E-01	24,1	1,573E-01	1,850E-01	4,376E-01
34	TH-227	---	---	---	2,581E-01	6,332E-01
35	TH-230	---	---	---	9,771E+00	2,335E+01
36	TH-234	---	---	---	9,170E-01	2,313E+00
37	PA-234M	---	---	---	6,238E+00	1,474E+01
38	U-235	---	---	---	2,509E-01	5,797E-01
39	AM-241	---	---	---	1,003E-01	2,305E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 58

Auswertung des Gammaskopimetrischen: T2110131

Bezugsdatum:	21.10.2021 07:20:00	Detektor:	GMX4
Messdatum:	21.10.2021 19:20:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.91 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.547 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	22.10.2021 07:42:45	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211021/01 PW2058 21/1845	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AKWISIT (Bq/l)	Faktor (%)	FRÜH (Bq/l)	FRÜH (Bq/l)	NWIS (Bq/l)	NWIS (Bq/l)
1	BE-7	---	---	---	---	3,532E-01	8,268E-01
2	K-40	1,006E+02	20,6	2,071E+01	---	5,663E-01	1,348E+00
3	MN-54	---	---	---	---	4,930E-02	1,160E-01
4	CO-57	---	---	---	---	3,246E-02	7,489E-02
5	CO-60	---	---	---	---	6,399E-02	1,520E-01
6	ZN-65	---	---	---	---	1,284E-01	3,016E-01
7	SE-75	---	---	---	---	6,129E-02	1,428E-01
8	SR-85	---	---	---	---	4,316E-02	1,007E-01
9	Y-88	---	---	---	---	5,122E-02	1,254E-01
10	NB-94	---	---	---	---	4,770E-02	1,125E-01
11	RU-106	---	---	---	---	4,648E-01	1,094E+00
12	AG-108M	---	---	---	---	6,007E-02	1,419E-01
13	AG-110M	---	---	---	---	5,513E-02	1,300E-01
14	CD-109	---	---	---	---	8,148E-01	1,876E+00
15	SN-113	---	---	---	---	5,515E-02	1,285E-01
16	SB-125	---	---	---	---	1,193E-01	2,796E-01
17	I-129	---	---	---	---	7,862E-01	1,814E+00
18	CS-134	---	---	---	---	5,218E-02	1,223E-01
19	CS-137	---	---	---	---	5,001E-02	1,175E-01
20	CE-139	---	---	---	---	3,645E-02	8,441E-02
21	CE-144	---	---	---	---	2,501E-01	5,778E-01
22	EU-152	---	---	---	---	1,394E-01	3,247E-01
23	EU-154	---	---	---	---	2,537E-01	5,984E-01
24	HG-203	---	---	---	---	4,406E-02	1,020E-01
25	TL-208	8,591E-01	21,5	1,847E-01	---	5,877E-02	1,378E-01
26	PB-210	---	---	---	---	1,014E+00	2,333E+00
27	PB-212	2,537E+00	20,8	5,277E-01	---	7,324E-02	1,696E-01
28	PB-214	1,448E+00	21,8	3,150E-01	---	9,818E-02	2,286E-01
29	BI-212	2,830E+00	29,0	8,199E-01	---	6,965E-01	1,638E+00
30	BI-214	1,302E+00	21,5	2,795E-01	---	1,226E-01	2,859E-01
31	RA-223	---	---	---	---	8,432E-01	1,962E+00
32	RA-226	---	---	---	---	8,707E-01	2,011E+00
33	AC-228	7,102E-01	25,1	1,786E-01	---	1,990E-01	4,690E-01
34	TH-227	---	---	---	---	2,796E-01	6,844E-01
35	TH-230	---	---	---	---	1,036E+01	2,473E+01
36	TH-234	---	---	---	---	9,742E-01	2,455E+00
37	PA-234M	---	---	---	---	6,279E+00	1,483E+01
38	U-235	---	---	---	---	2,609E-01	6,022E-01
39	AM-241	---	---	---	---	1,018E-01	2,340E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 59

Auswertung des Gammaskpektrums: T2110173

Bezugsdatum:	28.10.2021 07:40:00	Detektor:	GMX4
Messdatum:	28.10.2021 19:40:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.80 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.955 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	29.10.2021 08:49:16	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211028/01 PW2063 21/1880	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	(isotop)	Aktivität (Bq)	Fehler (%)	Fenster (keV)	BKG (Bq)	NW- (Bq)
1	BE-7	---	---	---	3,236E-01	7,601E-01
2	K-40	8,260E+01	20,6	1,701E+01	5,456E-01	1,301E+00
3	MN-54	---	---	---	4,505E-02	1,064E-01
4	CO-57	---	---	---	2,922E-02	6,757E-02
5	CO-60	---	---	---	5,612E-02	1,342E-01
6	ZN-65	---	---	---	1,138E-01	2,685E-01
7	SE-75	---	---	---	5,722E-02	1,336E-01
8	SR-85	---	---	---	3,602E-02	8,464E-02
9	Y-88	---	---	---	5,069E-02	1,242E-01
10	NB-94	---	---	---	5,026E-02	1,183E-01
11	RU-106	---	---	---	4,498E-01	1,060E+00
12	AG-108M	---	---	---	5,292E-02	1,257E-01
13	AG-110M	---	---	---	5,199E-02	1,229E-01
14	CD-109	---	---	---	7,597E-01	1,752E+00
15	SN-113	---	---	---	5,083E-02	1,188E-01
16	SB-125	---	---	---	1,084E-01	2,550E-01
17	I-129	---	---	---	7,188E-01	1,662E+00
18	CS-134	---	---	---	4,810E-02	1,131E-01
19	CS-137	---	---	---	4,719E-02	1,111E-01
20	CE-139	---	---	---	3,324E-02	7,716E-02
21	CE-144	---	---	---	2,316E-01	5,360E-01
22	EU-152	---	---	---	1,246E-01	2,913E-01
23	EU-154	---	---	---	2,261E-01	5,360E-01
24	HG-203	---	---	---	3,879E-02	9,009E-02
25	TL-208	7,824E-01	21,5	1,684E-01	5,201E-02	1,225E-01
26	PB-210	---	---	---	9,628E-01	2,219E+00
27	PB-212	2,170E+00	20,8	4,507E-01	6,618E-02	1,537E-01
28	PB-214	9,398E-01	21,6	2,029E-01	8,586E-02	2,008E-01
29	BI-212	2,559E+00	25,7	6,586E-01	6,032E-01	1,428E+00
30	BI-214	8,996E-01	22,1	1,992E-01	1,046E-01	2,454E-01
31	RA-223	---	---	---	7,953E-01	1,853E+00
32	RA-226	---	---	---	8,212E-01	1,900E+00
33	AC-228	---	---	---	1,868E-01	4,415E-01
34	TH-227	---	---	---	2,507E-01	6,153E-01
35	TH-230	---	---	---	9,296E+00	2,224E+01
36	TH-234	---	---	---	9,157E-01	2,310E+00
37	PA-234M	---	---	---	5,953E+00	1,409E+01
38	U-235	---	---	---	2,401E-01	5,553E-01
39	AM-241	---	---	---	9,249E-02	2,129E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 60

Auswertung des Gammaskpektrums: T2111026

Bezugsdatum:	04.11.2021 08:20:00	Detektor:	GMX4
Messdatum:	04.11.2021 20:20:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.71 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.878 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	05.11.2021 08:54:13	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211104/01 PW2064 21/1909	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Anteil [%]	Gamma [Bq]	BWG [Bq]	NWG [Bq]
1	BE-7	---	---	---	3,173E-01	7,460E-01
2	K-40	8,484E+01	20,6	1,747E+01	5,122E-01	1,226E+00
3	MN-54	---	---	---	4,505E-02	1,064E-01
4	CO-57	---	---	---	2,816E-02	6,517E-02
5	CO-60	---	---	---	5,348E-02	1,282E-01
6	ZN-65	---	---	---	1,098E-01	2,596E-01
7	SE-75	---	---	---	5,610E-02	1,310E-01
8	SR-85	---	---	---	3,831E-02	8,982E-02
9	Y-88	---	---	---	5,228E-02	1,278E-01
10	NB-94	---	---	---	4,453E-02	1,053E-01
11	RU-106	---	---	---	4,207E-01	9,946E-01
12	AG-108M	---	---	---	5,446E-02	1,292E-01
13	AG-110M	---	---	---	4,867E-02	1,154E-01
14	CD-109	---	---	---	7,517E-01	1,733E+00
15	SN-113	---	---	---	5,152E-02	1,204E-01
16	SB-125	---	---	---	1,095E-01	2,575E-01
17	I-129	---	---	---	6,997E-01	1,619E+00
18	CS-134	---	---	---	4,481E-02	1,057E-01
19	CS-137	---	---	---	4,410E-02	1,042E-01
20	CE-139	---	---	---	3,392E-02	7,868E-02
21	CE-144	---	---	---	2,261E-01	5,234E-01
22	EU-152	---	---	---	1,241E-01	2,902E-01
23	EU-154	---	---	---	2,290E-01	5,425E-01
24	HG-203	---	---	---	4,230E-02	9,800E-02
25	TL-208	7,481E-01	21,6	1,614E-01	5,091E-02	1,200E-01
26	PB-210	---	---	---	9,034E-01	2,085E+00
27	PB-212	2,092E+00	20,8	4,347E-01	6,686E-02	1,552E-01
28	PB-214	9,027E-01	22,2	2,002E-01	9,064E-02	2,115E-01
29	BI-212	2,726E+00	25,4	6,912E-01	5,758E-01	1,366E+00
30	BI-214	8,859E-01	22,4	1,980E-01	1,021E-01	2,397E-01
31	RA-223	---	---	---	7,768E-01	1,812E+00
32	RA-226	---	---	---	7,892E-01	1,827E+00
33	AC-228	4,265E-01	27,2	1,161E-01	1,805E-01	4,274E-01
34	TH-227	---	---	---	2,555E-01	6,269E-01
35	TH-230	---	---	---	9,977E+00	2,384E+01
36	TH-234	---	---	---	8,563E-01	2,163E+00
37	PA-234M	---	---	---	5,942E+00	1,407E+01
38	U-235	---	---	---	2,406E-01	5,564E-01
39	AM-241	---	---	---	9,423E-02	2,168E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 61

Auswertung des Gammaskpektrums: T2111066

Bezugsdatum:	11.11.2021 07:45:00	Detektor:	GMX4
Messdatum:	11.11.2021 19:45:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.71 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.877 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.11.2021 08:09:16	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211111/01 PW2067 21/1944	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

ID	ISOID	ACTIVIA Bq/l	FOHIA %	FÄHIA Bq/l	UKG Bq/l	NWG Bq/l
1	BE-7	---	---	---	3,262E-01	7,661E-01
2	K-40	8,564E+01	20,6	1,763E+01	5,398E-01	1,288E+00
3	MN-54	---	---	---	4,433E-02	1,048E-01
4	CO-57	---	---	---	2,750E-02	6,368E-02
5	CO-60	---	---	---	5,924E-02	1,412E-01
6	ZN-65	---	---	---	1,153E-01	2,719E-01
7	SE-75	---	---	---	5,435E-02	1,271E-01
8	SR-85	---	---	---	3,747E-02	8,791E-02
9	Y-88	---	---	---	4,617E-02	1,140E-01
10	NB-94	---	---	---	4,436E-02	1,050E-01
11	RU-106	---	---	---	4,220E-01	9,974E-01
12	AG-108M	---	---	---	5,674E-02	1,343E-01
13	AG-110M	---	---	---	4,536E-02	1,078E-01
14	CD-109	---	---	---	7,719E-01	1,779E+00
15	SN-113	---	---	---	5,250E-02	1,226E-01
16	SB-125	---	---	---	1,084E-01	2,550E-01
17	I-129	---	---	---	7,592E-01	1,753E+00
18	CS-134	---	---	---	4,069E-02	9,636E-02
19	CS-137	---	---	---	4,587E-02	1,082E-01
20	CE-139	---	---	---	3,213E-02	7,464E-02
21	CE-144	---	---	---	2,223E-01	5,149E-01
22	EU-152	---	---	---	1,237E-01	2,892E-01
23	EU-154	---	---	---	2,408E-01	5,692E-01
24	HG-203	---	---	---	4,177E-02	9,682E-02
25	TL-208	7,633E-01	21,6	1,651E-01	4,985E-02	1,176E-01
26	PB-210	---	---	---	9,303E-01	2,145E+00
27	PB-212	2,178E+00	20,9	4,545E-01	6,692E-02	1,553E-01
28	PB-214	9,068E-01	22,0	1,993E-01	8,517E-02	1,992E-01
29	BI-212	2,070E+00	30,9	6,395E-01	6,660E-01	1,569E+00
30	BI-214	1,091E+00	22,5	2,455E-01	1,003E-01	2,357E-01
31	RA-223	---	---	---	7,756E-01	1,809E+00
32	RA-226	---	---	---	7,738E-01	1,793E+00
33	AC-228	---	---	---	1,878E-01	4,438E-01
34	TH-227	---	---	---	2,575E-01	6,315E-01
35	TH-230	---	---	---	9,659E+00	2,309E+01
36	TH-234	---	---	---	8,794E-01	2,220E+00
37	PA-234M	---	---	---	5,676E+00	1,347E+01
38	U-235	---	---	---	2,417E-01	5,588E-01
39	AM-241	---	---	---	8,763E-02	2,019E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 62

Auswertung des Gammaskopimetrischen: T2111126

Bezugsdatum:	18.11.2021 07:15:00	Detektor:	GMX4
Messdatum:	18.11.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.82 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.996 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.11.2021 08:25:23	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211118/01 PW2069 21/1986	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Effizienz (%)	Effizienz (Bq)	Effizienz (Bq)	NWG (Bq)
1	BE-7	---	---	---	3,306E-01	7,759E-01
2	K-40	8,793E+01	20,6	1,810E+01	5,671E-01	1,350E+00
3	MN-54	---	---	---	4,702E-02	1,108E-01
4	CO-57	---	---	---	2,934E-02	6,783E-02
5	CO-60	---	---	---	5,924E-02	1,412E-01
6	ZN-65	---	---	---	1,238E-01	2,912E-01
7	SE-75	---	---	---	5,880E-02	1,371E-01
8	SR-85	---	---	---	3,848E-02	9,020E-02
9	Y-88	---	---	---	4,792E-02	1,179E-01
10	NB-94	---	---	---	4,621E-02	1,091E-01
11	RU-106	---	---	---	4,106E-01	9,716E-01
12	AG-108M	---	---	---	5,766E-02	1,364E-01
13	AG-110M	---	---	---	4,883E-02	1,157E-01
14	CD-109	---	---	---	7,997E-01	1,842E+00
15	SN-113	---	---	---	5,162E-02	1,206E-01
16	SB-125	---	---	---	1,196E-01	2,802E-01
17	I-129	---	---	---	7,269E-01	1,680E+00
18	CS-134	---	---	---	4,648E-02	1,094E-01
19	CS-137	---	---	---	4,380E-02	1,035E-01
20	CE-139	---	---	---	3,374E-02	7,829E-02
21	CE-144	---	---	---	2,302E-01	5,329E-01
22	EU-152	---	---	---	1,360E-01	3,170E-01
23	EU-154	---	---	---	2,426E-01	5,733E-01
24	HG-203	---	---	---	3,780E-02	8,785E-02
25	TL-208	7,869E-01	21,8	1,714E-01	5,142E-02	1,211E-01
26	PB-210	---	---	---	9,718E-01	2,239E+00
27	PB-212	2,362E+00	20,8	4,914E-01	6,650E-02	1,544E-01
28	PB-214	1,337E+00	21,2	2,832E-01	9,280E-02	2,164E-01
29	BI-212	2,242E+00	27,0	6,060E-01	6,083E-01	1,439E+00
30	BI-214	1,238E+00	21,6	2,673E-01	1,099E-01	2,573E-01
31	RA-223	---	---	---	7,383E-01	1,725E+00
32	RA-226	---	---	---	8,104E-01	1,875E+00
33	AC-228	---	---	---	1,700E-01	4,037E-01
34	TH-227	---	---	---	2,504E-01	6,147E-01
35	TH-230	---	---	---	9,431E+00	2,256E+01
36	TH-234	---	---	---	9,047E-01	2,283E+00
37	PA-234M	---	---	---	6,361E+00	1,501E+01
38	U-235	---	---	---	2,463E-01	5,692E-01
39	AM-241	---	---	---	9,411E-02	2,165E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 63
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2111171

Bezugsdatum:	25.11.2021 07:20:00	Detektor:	GMX4
Messdatum:	25.11.2021 19:20:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43205.00 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.068 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	26.11.2021 08:10:55	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211125/01 PW2074 21/2039	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Anteil (%)	Anteil (Bq)	BKG (Bq)	NWG (Bq)
1	BE-7	---	---	---	3,572E-01	8,359E-01
2	K-40	9,078E+01	20,6	1,869E+01	5,271E-01	1,260E+00
3	MN-54	---	---	---	5,047E-02	1,186E-01
4	CO-57	---	---	---	2,945E-02	6,809E-02
5	CO-60	---	---	---	6,166E-02	1,467E-01
6	ZN-65	---	---	---	1,170E-01	2,757E-01
7	SE-75	---	---	---	5,759E-02	1,344E-01
8	SR-85	---	---	---	3,830E-02	8,979E-02
9	Y-88	---	---	---	4,734E-02	1,166E-01
10	NB-94	---	---	---	4,591E-02	1,085E-01
11	RU-106	---	---	---	4,510E-01	1,063E+00
12	AG-108M	---	---	---	5,358E-02	1,272E-01
13	AG-110M	---	---	---	5,223E-02	1,234E-01
14	CD-109	---	---	---	7,413E-01	1,710E+00
15	SN-113	---	---	---	5,289E-02	1,234E-01
16	SB-125	---	---	---	1,255E-01	2,936E-01
17	I-129	---	---	---	7,423E-01	1,715E+00
18	CS-134	---	---	---	4,980E-02	1,170E-01
19	CS-137	---	---	---	4,974E-02	1,169E-01
20	CE-139	---	---	---	3,445E-02	7,989E-02
21	CE-144	---	---	---	2,381E-01	5,506E-01
22	EU-152	---	---	---	1,331E-01	3,106E-01
23	EU-154	---	---	---	2,262E-01	5,363E-01
24	HG-203	---	---	---	4,122E-02	9,557E-02
25	TL-208	7,196E-01	21,7	1,558E-01	5,371E-02	1,263E-01
26	PB-210	---	---	---	9,670E-01	2,228E+00
27	PB-212	2,190E+00	20,8	4,548E-01	6,706E-02	1,556E-01
28	PB-214	9,785E-01	21,6	2,115E-01	9,538E-02	2,222E-01
29	BI-212	2,554E+00	26,7	6,825E-01	6,289E-01	1,486E+00
30	BI-214	9,115E-01	22,2	2,020E-01	1,095E-01	2,564E-01
31	RA-223	---	---	---	7,739E-01	1,805E+00
32	RA-226	---	---	---	8,540E-01	1,974E+00
33	AC-228	5,909E-01	25,4	1,501E-01	1,916E-01	4,525E-01
34	TH-227	---	---	---	2,611E-01	6,403E-01
35	TH-230	---	---	---	9,661E+00	2,310E+01
36	TH-234	---	---	---	9,103E-01	2,296E+00
37	PA-234M	---	---	---	6,541E+00	1,542E+01
38	U-235	---	---	---	2,524E-01	5,829E-01
39	AM-241	---	---	---	9,699E-02	2,230E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 64
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2112026

Bezugsdatum:	02.12.2021 07:15:00	Detektor:	GMX4
Messdatum:	02.12.2021 19:15:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.93 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.038 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	03.12.2021 07:53:57	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211202/01 PW2078 21/2083	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Anteil [%]	Fehler [Bq]	ERL [Bq/l]	NWC [Bq/l]
1	BE-7	---	---	---	3,515E-01	8,232E-01
2	K-40	8,751E+01	20,5	1,798E+01	5,262E-01	1,257E+00
3	MN-54	---	---	---	4,646E-02	1,096E-01
4	CO-57	---	---	---	2,941E-02	6,799E-02
5	CO-60	---	---	---	5,317E-02	1,275E-01
6	ZN-65	---	---	---	1,191E-01	2,805E-01
7	SE-75	---	---	---	5,618E-02	1,312E-01
8	SR-85	---	---	---	3,780E-02	8,867E-02
9	Y-88	---	---	---	4,792E-02	1,179E-01
10	NB-94	---	---	---	4,711E-02	1,112E-01
11	RU-106	---	---	---	4,355E-01	1,028E+00
12	AG-108M	---	---	---	5,437E-02	1,290E-01
13	AG-110M	---	---	---	5,471E-02	1,290E-01
14	CD-109	---	---	---	7,892E-01	1,818E+00
15	SN-113	---	---	---	5,041E-02	1,179E-01
16	SB-125	---	---	---	1,165E-01	2,732E-01
17	I-129	---	---	---	7,011E-01	1,622E+00
18	CS-134	---	---	---	4,438E-02	1,047E-01
19	CS-137	---	---	---	4,798E-02	1,129E-01
20	CE-139	---	---	---	3,420E-02	7,932E-02
21	CE-144	---	---	---	2,345E-01	5,426E-01
22	EU-152	---	---	---	1,372E-01	3,198E-01
23	EU-154	---	---	---	2,300E-01	5,449E-01
24	HG-203	---	---	---	4,153E-02	9,626E-02
25	TL-208	8,182E-01	21,5	1,757E-01	5,127E-02	1,208E-01
26	PB-210	---	---	---	9,453E-01	2,179E+00
27	PB-212	2,097E+00	20,8	4,358E-01	6,784E-02	1,574E-01
28	PB-214	1,099E+00	21,4	2,355E-01	8,855E-02	2,068E-01
29	BI-212	2,183E+00	31,9	6,967E-01	6,415E-01	1,514E+00
30	BI-214	1,094E+00	22,0	2,403E-01	1,049E-01	2,460E-01
31	RA-223	---	---	---	7,331E-01	1,713E+00
32	RA-226	---	---	---	8,254E-01	1,909E+00
33	AC-228	4,198E-01	26,6	1,115E-01	1,774E-01	4,203E-01
34	TH-227	---	---	---	2,587E-01	6,345E-01
35	TH-230	---	---	---	9,746E+00	2,330E+01
36	TH-234	---	---	---	9,023E-01	2,276E+00
37	PA-234M	---	---	---	6,541E+00	1,542E+01
38	U-235	---	---	---	2,406E-01	5,564E-01
39	AM-241	---	---	---	9,453E-02	2,175E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 65

Auswertung des Gammaspektrums: T2112064

Bezugsdatum:	09.12.2021 07:25:00	Detektor:	GMX4
Messdatum:	09.12.2021 19:25:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.72 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.805 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	10.12.2021 07:46:55	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211209/01 PW2081 21/2125	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Amplitude (cps)	Faktor (%)	Faktor (cps)	KKG (cps)	NWG (cps)
1	BE-7	---	---	---	3,450E-01	8,084E-01
2	K-40	7,569E+01	20,6	1,559E+01	4,851E-01	1,165E+00
3	MN-54	---	---	---	4,224E-02	1,001E-01
4	CO-57	---	---	---	2,818E-02	6,522E-02
5	CO-60	---	---	---	4,970E-02	1,197E-01
6	ZN-65	---	---	---	1,151E-01	2,715E-01
7	SE-75	---	---	---	5,526E-02	1,291E-01
8	SR-85	---	---	---	3,404E-02	8,018E-02
9	Y-88	---	---	---	4,848E-02	1,192E-01
10	NB-94	---	---	---	4,243E-02	1,006E-01
11	RU-106	---	---	---	4,463E-01	1,052E+00
12	AG-108M	---	---	---	5,758E-02	1,362E-01
13	AG-110M	---	---	---	4,915E-02	1,164E-01
14	CD-109	---	---	---	7,428E-01	1,713E+00
15	SN-113	---	---	---	5,043E-02	1,179E-01
16	SB-125	---	---	---	1,162E-01	2,726E-01
17	I-129	---	---	---	6,938E-01	1,606E+00
18	CS-134	---	---	---	4,588E-02	1,081E-01
19	CS-137	---	---	---	4,729E-02	1,114E-01
20	CE-139	---	---	---	3,376E-02	7,832E-02
21	CE-144	---	---	---	2,200E-01	5,097E-01
22	EU-152	---	---	---	1,269E-01	2,965E-01
23	EU-154	---	---	---	2,439E-01	5,763E-01
24	HG-203	---	---	---	3,986E-02	9,249E-02
25	TL-208	6,873E-01	21,9	1,503E-01	5,469E-02	1,285E-01
26	PB-210	---	---	---	8,937E-01	2,063E+00
27	PB-212	1,836E+00	20,9	3,839E-01	6,368E-02	1,480E-01
28	PB-214	6,270E-01	22,9	1,437E-01	8,882E-02	2,074E-01
29	BI-212	1,828E+00	30,5	5,574E-01	6,817E-01	1,605E+00
30	BI-214	5,976E-01	24,0	1,433E-01	1,056E-01	2,477E-01
31	RA-223	---	---	---	7,861E-01	1,833E+00
32	RA-226	---	---	---	7,544E-01	1,749E+00
33	AC-228	---	---	---	1,729E-01	4,101E-01
34	TH-227	---	---	---	2,384E-01	5,861E-01
35	TH-230	---	---	---	9,309E+00	2,227E+01
36	TH-234	---	---	---	8,480E-01	2,142E+00
37	PA-234M	---	---	---	6,155E+00	1,455E+01
38	U-235	---	---	---	2,418E-01	5,591E-01
39	AM-241	---	---	---	8,750E-02	2,016E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 66

Auswertung des Gammaskpektrums: T2112093

Bezugsdatum:	16.12.2021 07:10:00	Detektor:	GMX4
Messdatum:	16.12.2021 19:10:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.62 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.866 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	17.12.2021 07:42:08	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211216/01 PW2083 21/2155	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	AMOUNT [Bq]	Ratio [%]	Formel [g]	ERR [Bq]	NWG [g]
1	BE-7	---	---	---	3,297E-01	7,739E-01
2	K-40	8,875E+01	20,6	1,827E+01	5,091E-01	1,219E+00
3	MN-54	---	---	---	4,344E-02	1,028E-01
4	CO-57	---	---	---	2,871E-02	6,641E-02
5	CO-60	---	---	---	5,527E-02	1,323E-01
6	ZN-65	---	---	---	1,135E-01	2,679E-01
7	SE-75	---	---	---	5,726E-02	1,337E-01
8	SR-85	---	---	---	3,738E-02	8,773E-02
9	Y-88	---	---	---	4,182E-02	1,041E-01
10	NB-94	---	---	---	4,621E-02	1,091E-01
11	RU-106	---	---	---	4,002E-01	9,481E-01
12	AG-108M	---	---	---	5,603E-02	1,327E-01
13	AG-110M	---	---	---	4,823E-02	1,143E-01
14	CD-109	---	---	---	7,700E-01	1,775E+00
15	SN-113	---	---	---	4,700E-02	1,102E-01
16	SB-125	---	---	---	1,133E-01	2,661E-01
17	I-129	---	---	---	7,176E-01	1,659E+00
18	CS-134	---	---	---	4,490E-02	1,059E-01
19	CS-137	---	---	---	4,721E-02	1,112E-01
20	CE-139	---	---	---	3,285E-02	7,628E-02
21	CE-144	---	---	---	2,223E-01	5,149E-01
22	EU-152	---	---	---	1,295E-01	3,024E-01
23	EU-154	---	---	---	2,390E-01	5,651E-01
24	HG-203	---	---	---	3,799E-02	8,828E-02
25	TL-208	7,904E-01	21,4	1,694E-01	4,705E-02	1,112E-01
26	PB-210	---	---	---	9,318E-01	2,149E+00
27	PB-212	2,218E+00	20,8	4,624E-01	6,316E-02	1,468E-01
28	PB-214	1,103E+00	21,4	2,358E-01	8,638E-02	2,019E-01
29	BI-212	2,632E+00	26,6	6,990E-01	6,717E-01	1,582E+00
30	BI-214	1,071E+00	21,9	2,344E-01	1,076E-01	2,522E-01
31	RA-223	---	---	---	7,563E-01	1,765E+00
32	RA-226	---	---	---	8,085E-01	1,871E+00
33	AC-228	6,239E-01	24,1	1,502E-01	1,659E-01	3,944E-01
34	TH-227	---	---	---	2,366E-01	5,817E-01
35	TH-230	---	---	---	9,641E+00	2,305E+01
36	TH-234	---	---	---	8,850E-01	2,234E+00
37	PA-234M	---	---	---	5,942E+00	1,407E+01
38	U-235	---	---	---	2,426E-01	5,610E-01
39	AM-241	---	---	---	9,267E-02	2,133E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 67

Auswertung des Gammaskpektrums: T2112117

Bezugsdatum:	22.12.2021 06:50:00	Detektor:	GMX4
Messdatum:	22.12.2021 18:50:00	Messzeit: (life)	43200.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	43204.87 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.999 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	23.12.2021 07:48:28	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211222/01 PW2087 21/2166	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AKTIVITÄT (Bq)	Fehler (%)	Faktor (Bq)	EKG (cpm)	NWI (Bq/l)
1	BE-7	---	---	---	3,450E-01	8,084E-01
2	K-40	8,647E+01	20,6	1,777E+01	5,231E-01	1,250E+00
3	MN-54	---	---	---	4,756E-02	1,121E-01
4	CO-57	---	---	---	2,915E-02	6,741E-02
5	CO-60	---	---	---	4,937E-02	1,189E-01
6	ZN-65	---	---	---	1,173E-01	2,764E-01
7	SE-75	---	---	---	5,768E-02	1,346E-01
8	SR-85	---	---	---	3,594E-02	8,447E-02
9	Y-88	---	---	---	4,497E-02	1,113E-01
10	NB-94	---	---	---	4,814E-02	1,135E-01
11	RU-106	---	---	---	4,282E-01	1,011E+00
12	AG-108M	---	---	---	5,723E-02	1,354E-01
13	AG-110M	---	---	---	5,087E-02	1,203E-01
14	CD-109	---	---	---	7,839E-01	1,806E+00
15	SN-113	---	---	---	5,032E-02	1,177E-01
16	SB-125	---	---	---	1,196E-01	2,802E-01
17	I-129	---	---	---	7,294E-01	1,686E+00
18	CS-134	---	---	---	4,934E-02	1,159E-01
19	CS-137	---	---	---	4,894E-02	1,151E-01
20	CE-139	---	---	---	3,491E-02	8,094E-02
21	CE-144	---	---	---	2,379E-01	5,503E-01
22	EU-152	---	---	---	1,318E-01	3,076E-01
23	EU-154	---	---	---	2,393E-01	5,658E-01
24	HG-203	---	---	---	3,975E-02	9,225E-02
25	TL-208	8,077E-01	21,6	1,746E-01	5,159E-02	1,215E-01
26	PB-210	---	---	---	9,202E-01	2,123E+00
27	PB-212	2,169E+00	20,8	4,519E-01	6,698E-02	1,555E-01
28	PB-214	1,016E+00	21,7	2,201E-01	9,114E-02	2,127E-01
29	BI-212	1,810E+00	29,7	5,369E-01	6,074E-01	1,437E+00
30	BI-214	1,010E+00	23,0	2,328E-01	1,111E-01	2,600E-01
31	RA-223	---	---	---	7,815E-01	1,822E+00
32	RA-226	---	---	---	8,212E-01	1,900E+00
33	AC-228	6,711E-01	25,1	1,684E-01	1,832E-01	4,335E-01
34	TH-227	---	---	---	2,556E-01	6,270E-01
35	TH-230	---	---	---	9,434E+00	2,256E+01
36	TH-234	---	---	---	8,687E-01	2,193E+00
37	PA-234M	---	---	---	5,788E+00	1,372E+01
38	U-235	---	---	---	2,464E-01	5,694E-01
39	AM-241	---	---	---	9,527E-02	2,191E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2022



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 68

Auswertung des Gammaskpektrums: T2201016

Bezugsdatum:	30.12.2021 06:20:00	Detektor:	GMX2
Messdatum:	11.01.2022 09:15:00	Messzeit: (life)	5400.00 s
Alter der Probe:	12.12 Tage	Messzeit: (real)	5400.68 s
Probenmasse/Volumen:	0,95	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.684 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS2_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	11.01.2022 10:48:26	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L658008/20211230/01 PW2089 22/0006	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Bezeichnung	AMIBI (Bq)	Fehler (%)	Fehler (Bq)	EMG (Bq)	NWG (Bq)
1	BE-7	---	---	---	1,584E+00	4,021E+00
2	K-40	8,699E+01	21,5	1,866E+01	3,015E+00	7,785E+00
3	MN-54	---	---	---	1,754E-01	4,621E-01
4	CO-57	---	---	---	1,031E-01	2,501E-01
5	CO-60	---	---	---	2,004E-01	5,543E-01
6	ZN-65	---	---	---	4,660E-01	1,221E+00
7	SE-75	---	---	---	2,000E-01	4,996E-01
8	SR-85	---	---	---	1,855E-01	4,677E-01
9	Y-88	---	---	---	1,900E-01	5,734E-01
10	NB-94	---	---	---	2,126E-01	5,464E-01
11	RU-106	---	---	---	2,099E+00	5,302E+00
12	AG-108M	---	---	---	2,401E-01	6,166E-01
13	AG-110M	---	---	---	2,360E-01	6,002E-01
14	CD-109	---	---	---	2,714E+00	6,520E+00
15	SN-113	---	---	---	2,422E-01	6,017E-01
16	SB-125	---	---	---	4,307E-01	1,099E+00
17	I-129	---	---	---	2,395E+00	5,795E+00
18	CS-134	---	---	---	2,027E-01	5,128E-01
19	CS-137	---	---	---	2,395E-01	6,026E-01
20	CE-139	---	---	---	1,253E-01	3,057E-01
21	CE-144	---	---	---	8,281E-01	2,010E+00
22	EU-152	---	---	---	4,947E-01	1,234E+00
23	EU-154	---	---	---	1,116E+00	2,834E+00
24	HG-203	---	---	---	2,106E-01	5,112E-01
25	TL-208	---	---	---	2,504E-01	6,260E-01
26	PB-210	---	---	---	3,286E+00	7,905E+00
27	PB-212	3,404E-01	44,9	1,528E-01	2,665E-01	6,510E-01
28	PB-214	---	---	---	4,280E-01	1,051E+00
29	BI-212	---	---	---	2,606E+00	6,763E+00
30	BI-214	---	---	---	4,789E-01	1,197E+00
31	RA-226	---	---	---	3,023E+00	7,330E+00
32	AC-228	---	---	---	1,164E+00	2,896E+00
33	TH-227	---	---	---	9,268E-01	2,399E+00
34	TH-230	---	---	---	2,701E+01	6,768E+01
35	TH-234	---	---	---	3,342E+00	8,731E+00
36	PA-234M	---	---	---	2,727E+01	7,055E+01
37	U-235	---	---	---	8,654E-01	2,095E+00
38	AM-241	---	---	---	2,613E-01	6,347E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 69

3 Messergebnisse Laugenmessstelle P725004

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 70
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2101068

Bezugsdatum: 14.01.2021 07:15:00	Detektor: GMX6
Messdatum: 14.01.2021 13:50:00	Messzeit: (life) 2200.00 s
Alter der Probe: 23700 Sekunden	Messzeit: (real) 2200.46 s
Probenmasse/Volumen: 1	Totzeit: 0.02 %
Nuklidtabelle: RS6_REF1.ISO	Zählrate: 4.103 cps
Ausbeutekurve: RS6REF_1.EFF	Fensterbreite:
Absorbtiionskurve: RS6_L01.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2005T6.NUL	Halbwertsbreite: 1.12 keV - 2.10 keV
Auswertedatum: 14.01.2021 14:28:54	Peaksuch-Parameter: 2.50 / 2.50 (15 keV - 2020 keV)
Kommentar: P725004/20210114/01 PW1879 21/0057	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Anteil (%)	Fehler (Bq)	ERG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	1,685E+00	4,347E+00
2	K-40	2,660E+02	20,9	5,557E+01	1,907E+00	5,519E+00
3	MN-54	---	---	---	2,462E-01	6,408E-01
4	CO-57	---	---	---	1,522E-01	3,735E-01
5	CO-60	---	---	---	2,924E-01	7,910E-01
6	ZN-65	---	---	---	7,248E-01	1,845E+00
7	SE-75	---	---	---	2,996E-01	7,517E-01
8	SR-85	---	---	---	2,359E-01	5,930E-01
9	Y-88	---	---	---	2,183E-01	6,594E-01
10	NB-94	---	---	---	1,977E-01	5,340E-01
11	RU-106	---	---	---	2,124E+00	5,576E+00
12	AG-108M	---	---	---	2,147E-01	5,914E-01
13	AG-110M	---	---	---	3,355E-01	8,524E-01
14	CD-109	---	---	---	3,599E+00	8,865E+00
15	SN-113	---	---	---	2,076E-01	5,440E-01
16	SB-125	---	---	---	4,802E-01	1,267E+00
17	I-129	---	---	---	4,961E+00	1,331E+01
18	CS-134	---	---	---	1,967E-01	5,228E-01
19	CS-137	---	---	---	1,986E-01	5,328E-01
20	CE-139	---	---	---	1,761E-01	4,348E-01
21	CE-144	---	---	---	1,171E+00	2,881E+00
22	EU-152	---	---	---	6,325E-01	1,610E+00
23	EU-154	---	---	---	1,026E+00	2,763E+00
24	HG-203	---	---	---	2,291E-01	5,641E-01
25	TL-208	---	---	---	2,470E-01	6,457E-01
26	PB-210	---	---	---	6,440E+00	1,647E+01
27	PB-212	---	---	---	3,746E-01	9,250E-01
28	PB-214	---	---	---	4,787E-01	1,208E+00
29	BI-212	---	---	---	2,467E+00	6,765E+00
30	BI-214	---	---	---	6,823E-01	1,705E+00
31	RA-223	---	---	---	4,113E+00	1,034E+01
32	RA-226	---	---	---	4,612E+00	1,126E+01
33	AC-228	---	---	---	9,988E-01	2,610E+00
34	TH-227	---	---	---	1,356E+00	3,551E+00
35	TH-230	---	---	---	4,903E+01	1,251E+02
36	TH-234	---	---	---	4,890E+00	1,326E+01
37	PA-234M	---	---	---	3,418E+01	8,875E+01
38	U-235	---	---	---	1,176E+00	2,901E+00
39	AM-241	---	---	---	5,359E-01	1,329E+00

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 71

Auswertung des Gammaskpektrums: T2102083

Bezugsdatum:	18.02.2021 07:40:00	Detektor:	GMX4
Messdatum:	18.02.2021 14:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	23700 Sekunden	Messzeit: (real)	3600.48 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.969 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.02.2021 15:21:18	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20210218/01 PW1892 21/0206	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Anteil (%)	Fehler (Bq)	EK4 (Bq)	NWR (Bq)
1	BE-7	---	---	---	1,324E+00	3,337E+00
2	K-40	2,544E+02	20,8	5,288E+01	1,494E+00	4,176E+00
3	MN-54	---	---	---	1,498E-01	3,934E-01
4	CO-57	---	---	---	1,138E-01	2,761E-01
5	CO-60	---	---	---	2,079E-01	5,553E-01
6	ZN-65	---	---	---	5,831E-01	1,452E+00
7	SE-75	---	---	---	1,983E-01	4,945E-01
8	SR-85	---	---	---	1,400E-01	3,551E-01
9	Y-88	---	---	---	1,439E-01	4,351E-01
10	NB-94	---	---	---	1,833E-01	4,705E-01
11	RU-106	---	---	---	1,880E+00	4,747E+00
12	AG-108M	---	---	---	2,446E-01	6,212E-01
13	AG-110M	---	---	---	2,417E-01	6,069E-01
14	CD-109	---	---	---	2,941E+00	7,114E+00
15	SN-113	---	---	---	1,957E-01	4,897E-01
16	SB-125	---	---	---	3,729E-01	9,593E-01
17	I-129	---	---	---	3,625E+00	9,365E+00
18	CS-134	---	---	---	1,615E-01	4,154E-01
19	CS-137	---	---	---	1,885E-01	4,798E-01
20	CE-139	---	---	---	1,247E-01	3,051E-01
21	CE-144	---	---	---	7,419E-01	1,825E+00
22	EU-152	---	---	---	4,296E-01	1,085E+00
23	EU-154	---	---	---	1,034E+00	2,623E+00
24	HG-203	---	---	---	1,375E-01	3,400E-01
25	TL-208	---	---	---	2,098E-01	5,304E-01
26	PB-210	---	---	---	4,468E+00	1,112E+01
27	PB-212	---	---	---	2,910E-01	7,064E-01
28	PB-214	---	---	---	3,719E-01	9,204E-01
29	BI-212	---	---	---	2,695E+00	6,853E+00
30	BI-214	---	---	---	3,919E-01	9,905E-01
31	RA-223	---	---	---	3,373E+00	8,283E+00
32	RA-226	---	---	---	2,920E+00	7,118E+00
33	AC-228	---	---	---	6,076E-01	1,602E+00
34	TH-227	---	---	---	9,473E-01	2,457E+00
35	TH-230	---	---	---	3,386E+01	8,544E+01
36	TH-234	---	---	---	3,373E+00	9,018E+00
37	PA-234M	---	---	---	2,623E+01	6,680E+01
38	U-235	---	---	---	8,725E-01	2,124E+00
39	AM-241	---	---	---	3,711E-01	9,052E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 72

Auswertung des Gammaskopimetrischen: T2103124

Bezugsdatum:	18.03.2021 08:00:00	Detektor:	GMX2
Messdatum:	19.03.2021 12:15:00	Messzeit: (life)	3500.00 s
Alter der Probe:	1.18 Tage	Messzeit: (real)	3500.57 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.742 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.03.2021 13:15:56	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20210318/01 PW1909 21/0382	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Ident.	Amplitude (cps)	Faktor (%)	Ergebnis (cps)	BKE (cps)	WW (cps)
1	BE-7	---	---	---	2,006E+00	5,106E+00
2	K-40	2,494E+02	20,9	5,224E+01	4,220E+00	1,098E+01
3	MN-54	---	---	---	2,322E-01	6,202E-01
4	CO-57	---	---	---	1,331E-01	3,282E-01
5	CO-60	---	---	---	3,164E-01	8,649E-01
6	ZN-65	---	---	---	8,103E-01	2,072E+00
7	SE-75	---	---	---	2,552E-01	6,445E-01
8	SR-85	---	---	---	2,894E-01	7,183E-01
9	Y-88	---	---	---	2,620E-01	7,906E-01
10	NB-94	---	---	---	2,967E-01	7,686E-01
11	RU-106	---	---	---	2,653E+00	6,812E+00
12	AG-108M	---	---	---	2,988E-01	7,852E-01
13	AG-110M	---	---	---	2,467E-01	6,539E-01
14	CD-109	---	---	---	3,855E+00	9,411E+00
15	SN-113	---	---	---	2,813E-01	7,123E-01
16	SB-125	---	---	---	4,863E-01	1,286E+00
17	I-129	---	---	---	3,734E+00	1,009E+01
18	CS-134	---	---	---	2,571E-01	6,618E-01
19	CS-137	---	---	---	2,999E-01	7,694E-01
20	CE-139	---	---	---	1,628E-01	4,013E-01
21	CE-144	---	---	---	1,150E+00	2,817E+00
22	EU-152	---	---	---	6,712E-01	1,691E+00
23	EU-154	---	---	---	1,337E+00	3,487E+00
24	HG-203	---	---	---	2,096E-01	5,195E-01
25	TL-208	---	---	---	3,590E-01	9,011E-01
26	PB-210	---	---	---	4,964E+00	1,279E+01
27	PB-212	---	---	---	4,081E-01	9,967E-01
28	PB-214	---	---	---	5,590E-01	1,390E+00
29	BI-212	---	---	---	3,768E+00	9,816E+00
30	BI-214	---	---	---	6,554E-01	1,653E+00
31	RA-226	---	---	---	4,865E+00	1,177E+01
32	AC-228	---	---	---	1,577E+00	3,960E+00
33	TH-227	---	---	---	1,331E+00	3,463E+00
34	TH-230	---	---	---	4,005E+01	1,031E+02
35	TH-234	---	---	---	4,725E+00	1,279E+01
36	PA-234M	---	---	---	4,961E+01	1,253E+02
37	U-235	---	---	---	1,293E+00	3,146E+00
38	AM-241	---	---	---	4,317E-01	1,079E+00

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 73

Auswertung des Gammaskpektrums: T2104059

Bezugsdatum:	15.04.2021 07:40:00	Detektor:	GMX4
Messdatum:	15.04.2021 16:35:00	Messzeit: (life)	3100.00 s
Alter der Probe:	32100 Sekunden	Messzeit: (real)	3100.42 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.075 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	15.04.2021 17:27:26	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20210415/01 PW1924 21/0518	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

NI	Isotop	Artwert (Bq)	Gamma (%)	Gamma (Bq)	E _{eff} (Bq)	NW (Bq)
1	BE-7	---	---	---	1,362E+00	3,480E+00
2	K-40	2,564E+02	20,8	5,340E+01	2,328E+00	6,188E+00
3	MN-54	---	---	---	1,931E-01	4,999E-01
4	CO-57	---	---	---	1,232E-01	3,004E-01
5	CO-60	---	---	---	3,055E-01	7,895E-01
6	ZN-65	---	---	---	5,583E-01	1,419E+00
7	SE-75	---	---	---	2,305E-01	5,747E-01
8	SR-85	---	---	---	1,610E-01	4,089E-01
9	Y-88	---	---	---	1,709E-01	5,139E-01
10	NB-94	---	---	---	1,878E-01	4,899E-01
11	RU-106	---	---	---	1,575E+00	4,138E+00
12	AG-108M	---	---	---	2,641E-01	6,761E-01
13	AG-110M	---	---	---	2,188E-01	5,648E-01
14	CD-109	---	---	---	3,246E+00	7,878E+00
15	SN-113	---	---	---	2,106E-01	5,311E-01
16	SB-125	---	---	---	5,458E-01	1,369E+00
17	I-129	---	---	---	3,838E+00	9,974E+00
18	CS-134	---	---	---	2,195E-01	5,544E-01
19	CS-137	---	---	---	2,189E-01	5,572E-01
20	CE-139	---	---	---	1,476E-01	3,606E-01
21	CE-144	---	---	---	9,451E-01	2,309E+00
22	EU-152	---	---	---	5,818E-01	1,447E+00
23	EU-154	---	---	---	1,056E+00	2,718E+00
24	HG-203	---	---	---	1,537E-01	3,813E-01
25	TL-208	---	---	---	2,485E-01	6,269E-01
26	PB-210	---	---	---	4,389E+00	1,103E+01
27	PB-212	---	---	---	3,192E-01	7,781E-01
28	PB-214	---	---	---	4,873E-01	1,194E+00
29	BI-212	---	---	---	3,131E+00	7,959E+00
30	BI-214	---	---	---	4,479E-01	1,134E+00
31	RA-223	---	---	---	3,216E+00	8,036E+00
32	RA-226	---	---	---	3,567E+00	8,665E+00
33	AC-228	---	---	---	7,623E-01	1,989E+00
34	TH-227	---	---	---	1,072E+00	2,786E+00
35	TH-230	---	---	---	3,724E+01	9,425E+01
36	TH-234	---	---	---	3,862E+00	1,033E+01
37	PA-234M	---	---	---	3,196E+01	8,094E+01
38	U-235	---	---	---	9,753E-01	2,382E+00
39	AM-241	---	---	---	3,754E-01	9,235E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 74

Auswertung des Gammaskopimetrischen: T2105089

Bezugsdatum:	12.05.2021 08:05:00	Detektor:	GMX4
Messdatum:	12.05.2021 12:20:00	Messzeit: (life)	3600.00 s
Alter der Probe:	15300 Sekunden	Messzeit: (real)	3600.47 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.871 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.05.2021 13:28:25	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20210512/01 PW1942 21/0695	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Annahme (dpm)	Faktor (%)	Faktor (Bq/d)	ERG (Bq)	MW (dpm)
1	BE-7	---	---	---	1,234E+00	3,132E+00
2	K-40	2,386E+02	20,8	4,964E+01	1,803E+00	4,874E+00
3	MN-54	---	---	---	1,949E-01	4,949E-01
4	CO-57	---	---	---	1,053E-01	2,569E-01
5	CO-60	---	---	---	2,547E-01	6,610E-01
6	ZN-65	---	---	---	5,323E-01	1,338E+00
7	SE-75	---	---	---	2,252E-01	5,554E-01
8	SR-85	---	---	---	1,626E-01	4,060E-01
9	Y-88	---	---	---	1,697E-01	4,934E-01
10	NB-94	---	---	---	1,433E-01	3,804E-01
11	RU-106	---	---	---	1,550E+00	4,002E+00
12	AG-108M	---	---	---	2,213E-01	5,685E-01
13	AG-110M	---	---	---	2,191E-01	5,556E-01
14	CD-109	---	---	---	2,761E+00	6,705E+00
15	SN-113	---	---	---	1,921E-01	4,816E-01
16	SB-125	---	---	---	4,870E-01	1,217E+00
17	I-129	---	---	---	3,204E+00	8,344E+00
18	CS-134	---	---	---	1,647E-01	4,226E-01
19	CS-137	---	---	---	1,885E-01	4,798E-01
20	CE-139	---	---	---	1,391E-01	3,377E-01
21	CE-144	---	---	---	8,142E-01	1,989E+00
22	EU-152	---	---	---	4,121E-01	1,045E+00
23	EU-154	---	---	---	9,354E-01	2,400E+00
24	HG-203	---	---	---	1,343E-01	3,327E-01
25	TL-208	---	---	---	2,180E-01	5,490E-01
26	PB-210	---	---	---	3,571E+00	9,012E+00
27	PB-212	---	---	---	3,068E-01	7,422E-01
28	PB-214	---	---	---	3,723E-01	9,213E-01
29	BI-212	---	---	---	2,485E+00	6,380E+00
30	BI-214	---	---	---	4,341E-01	1,086E+00
31	RA-223	---	---	---	2,724E+00	6,818E+00
32	RA-226	---	---	---	3,028E+00	7,362E+00
33	AC-228	---	---	---	7,017E-01	1,815E+00
34	TH-227	---	---	---	9,213E-01	2,395E+00
35	TH-230	---	---	---	3,403E+01	8,584E+01
36	TH-234	---	---	---	3,625E+00	9,653E+00
37	PA-234M	---	---	---	2,933E+01	7,379E+01
38	U-235	---	---	---	8,322E-01	2,033E+00
39	AM-241	---	---	---	3,584E-01	8,761E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 75
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2106208

Bezugsdatum: 18.06.2021 10:50:00 Messdatum: 21.06.2021 08:55:00 Alter der Probe: 2.92 Tage Probenmasse/Volumen: 1 Nuklidtabelle: RS6_REF1.ISO Ausbeutekurve: RS6REF_1.EFF Absorptionskurve: RS6_L01.ABS Nulldatei: UR2105T6.NUL Auswertedatum: 21.06.2021 10:12:41 Kommentar: P725004/20210618/01 PW1978 21/0985	Detektor: GMX6 Messzeit: (life) 3600.00 s Messzeit: (real) 3601.01 s Totzeit: 0.03 % Zählrate: 3.975 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.67 keV - 2.14 keV Peaksuch-Parameter: 2.50 / 2.50 (15 keV - 2020 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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Nr.	Isotop	Aktivität [Bq]	Dichte [%]	Ergebnis [Bq]	PKG [Bq]	INWA [Bq]
1	BE-7	---	---	---	1,240E+00	3,140E+00
2	K-40	2,332E+02	20,8	4,849E+01	1,715E+00	4,615E+00
3	MN-54	---	---	---	1,380E-01	3,638E-01
4	CO-57	---	---	---	1,101E-01	2,670E-01
5	CO-60	---	---	---	2,410E-01	6,241E-01
6	ZN-65	---	---	---	4,194E-01	1,075E+00
7	SE-75	---	---	---	1,627E-01	4,139E-01
8	SR-85	---	---	---	1,534E-01	3,843E-01
9	Y-88	---	---	---	1,357E-01	4,100E-01
10	NB-94	---	---	---	1,795E-01	4,585E-01
11	RU-106	---	---	---	1,261E+00	3,327E+00
12	AG-108M	---	---	---	2,473E-01	6,243E-01
13	AG-110M	---	---	---	2,225E-01	5,609E-01
14	CD-109	---	---	---	2,392E+00	5,857E+00
15	SN-113	---	---	---	1,791E-01	4,509E-01
16	SB-125	---	---	---	3,822E-01	9,747E-01
17	I-129	---	---	---	3,317E+00	8,836E+00
18	CS-134	---	---	---	1,788E-01	4,520E-01
19	CS-137	---	---	---	1,342E-01	3,545E-01
20	CE-139	---	---	---	1,099E-01	2,711E-01
21	CE-144	---	---	---	7,764E-01	1,899E+00
22	EU-152	---	---	---	4,450E-01	1,116E+00
23	EU-154	---	---	---	9,986E-01	2,528E+00
24	HG-203	---	---	---	1,257E-01	3,138E-01
25	TL-208	---	---	---	1,852E-01	4,719E-01
26	PB-210	---	---	---	4,039E+00	1,031E+01
27	PB-212	---	---	---	2,492E-01	6,111E-01
28	PB-214	---	---	---	3,378E-01	8,403E-01
29	BI-212	---	---	---	1,741E+00	4,660E+00
30	BI-214	---	---	---	4,447E-01	1,104E+00
31	RA-223	---	---	---	2,283E+00	5,801E+00
32	RA-226	---	---	---	2,342E+00	5,802E+00
33	AC-228	---	---	---	7,098E-01	1,819E+00
34	TH-227	---	---	---	9,464E-01	2,450E+00
35	TH-230	---	---	---	2,792E+01	7,157E+01
36	TH-234	---	---	---	2,895E+00	7,866E+00
37	PA-234M	---	---	---	2,426E+01	6,186E+01
38	U-235	---	---	---	7,178E-01	1,770E+00
39	AM-241	---	---	---	3,191E-01	7,924E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 76

Auswertung des Gammaskopimetrischen: T2107119

Bezugsdatum:	15.07.2021 07:50:00	Detektor:	GMX2
Messdatum:	15.07.2021 12:40:00	Messzeit: (life)	5400.00 s
Alter der Probe:	17400 Sekunden	Messzeit: (real)	5400.94 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.918 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	15.07.2021 14:18:14	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20210715/01 PW1996 21/1243	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	AMW [g]	Radioaktivität [Bq]	Radioaktivität [Bq/g]	Radioaktivität [Bq/l]	FWHM [keV]	NWFW [keV]
1	BE-7	---	---	---	---	1,753E+00	4,325E+00
2	K-40	2,504E+02	20,8	5,199E+01	2,726E+00	7,094E+00	
3	MN-54	---	---	---	2,558E-01	6,391E-01	
4	CO-57	---	---	---	1,189E-01	2,868E-01	
5	CO-60	---	---	---	2,511E-01	6,644E-01	
6	ZN-65	---	---	---	6,797E-01	1,691E+00	
7	SE-75	---	---	---	2,221E-01	5,457E-01	
8	SR-85	---	---	---	1,971E-01	4,866E-01	
9	Y-88	---	---	---	1,688E-01	5,092E-01	
10	NB-94	---	---	---	2,381E-01	6,014E-01	
11	RU-106	---	---	---	2,023E+00	5,100E+00	
12	AG-108M	---	---	---	2,588E-01	6,563E-01	
13	AG-110M	---	---	---	2,634E-01	6,577E-01	
14	CD-109	---	---	---	3,296E+00	7,921E+00	
15	SN-113	---	---	---	2,351E-01	5,804E-01	
16	SB-125	---	---	---	5,025E-01	1,256E+00	
17	I-129	---	---	---	3,113E+00	8,276E+00	
18	CS-134	---	---	---	2,798E-01	6,845E-01	
19	CS-137	---	---	---	2,357E-01	5,918E-01	
20	CE-139	---	---	---	1,485E-01	3,574E-01	
21	CE-144	---	---	---	9,085E-01	2,195E+00	
22	EU-152	---	---	---	6,027E-01	1,475E+00	
23	EU-154	---	---	---	1,141E+00	2,879E+00	
24	HG-203	---	---	---	1,738E-01	4,220E-01	
25	TL-208	---	---	---	2,753E-01	6,801E-01	
26	PB-210	---	---	---	4,543E+00	1,148E+01	
27	PB-212	---	---	---	3,411E-01	8,191E-01	
28	PB-214	---	---	---	4,499E-01	1,099E+00	
29	BI-212	---	---	---	3,726E+00	9,255E+00	
30	BI-214	---	---	---	6,184E-01	1,508E+00	
31	RA-226	---	---	---	3,515E+00	8,448E+00	
32	AC-228	---	---	---	1,081E+00	2,698E+00	
33	TH-227	---	---	---	9,735E-01	2,509E+00	
34	TH-230	---	---	---	3,540E+01	8,956E+01	
35	TH-234	---	---	---	3,653E+00	9,798E+00	
36	PA-234M	---	---	---	3,096E+01	7,854E+01	
37	U-235	---	---	---	9,652E-01	2,327E+00	
38	AM-241	---	---	---	3,642E-01	8,963E-01	

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 77

Auswertung des Gammaskopimetrischen: T2108066

Bezugsdatum:	12.08.2021 07:30:00	Detektor:	GMX6
Messdatum:	12.08.2021 12:15:00	Messzeit: (life)	3400.00 s
Alter der Probe:	17100 Sekunden	Messzeit: (real)	3400.96 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	4.159 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	12.08.2021 13:12:35	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P725004/20210812/01 PW2026 21/1480	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Halbw. [T]	Lebens- [T]	ERG [Bq]	NWA [Bq]
1	BE-7	---	---	---	1,358E+00	3,416E+00
2	K-40	2,714E+02	20,8	5,636E+01	1,533E+00	4,247E+00
3	MN-54	---	---	---	1,875E-01	4,781E-01
4	CO-57	---	---	---	1,106E-01	2,691E-01
5	CO-60	---	---	---	2,549E-01	6,602E-01
6	ZN-65	---	---	---	5,170E-01	1,302E+00
7	SE-75	---	---	---	2,007E-01	5,017E-01
8	SR-85	---	---	---	1,667E-01	4,155E-01
9	Y-88	---	---	---	1,612E-01	4,718E-01
10	NB-94	---	---	---	1,850E-01	4,741E-01
11	RU-106	---	---	---	1,486E+00	3,859E+00
12	AG-108M	---	---	---	2,507E-01	6,357E-01
13	AG-110M	---	---	---	2,143E-01	5,453E-01
14	CD-109	---	---	---	2,789E+00	6,781E+00
15	SN-113	---	---	---	1,703E-01	4,331E-01
16	SB-125	---	---	---	4,347E-01	1,099E+00
17	I-129	---	---	---	2,729E+00	7,422E+00
18	CS-134	---	---	---	1,808E-01	4,592E-01
19	CS-137	---	---	---	1,867E-01	4,758E-01
20	CE-139	---	---	---	1,119E-01	2,767E-01
21	CE-144	---	---	---	8,014E-01	1,963E+00
22	EU-152	---	---	---	4,175E-01	1,060E+00
23	EU-154	---	---	---	1,080E+00	2,729E+00
24	HG-203	---	---	---	1,392E-01	3,447E-01
25	TL-208	---	---	---	1,657E-01	4,311E-01
26	PB-210	---	---	---	4,078E+00	1,045E+01
27	PB-212	---	---	---	2,912E-01	7,086E-01
28	PB-214	---	---	---	3,405E-01	8,510E-01
29	BI-212	---	---	---	2,607E+00	6,655E+00
30	BI-214	---	---	---	3,852E-01	9,759E-01
31	RA-223	---	---	---	2,915E+00	7,264E+00
32	RA-226	---	---	---	2,617E+00	6,454E+00
33	AC-228	---	---	---	6,628E-01	1,726E+00
34	TH-227	---	---	---	9,822E-01	2,547E+00
35	TH-230	---	---	---	3,228E+01	8,226E+01
36	TH-234	---	---	---	3,121E+00	8,468E+00
37	PA-234M	---	---	---	2,358E+01	6,072E+01
38	U-235	---	---	---	7,229E-01	1,791E+00
39	AM-241	---	---	---	3,378E-01	8,390E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 78

Auswertung des Gammaskopimetrischen: T2109090

Bezugsdatum:	16.09.2021 07:55:00	Detektor:	GMX4
Messdatum:	16.09.2021 14:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	22800 Sekunden	Messzeit: (real)	3600.50 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.171 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.09.2021 15:16:31	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20210916/01 PW2040 21/1655	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (kBq)	Genauigkeit (%)	Genauigkeit (s)	EIG (s)	NWA (s)
1	BE-7	---	---	---	1,235E+00	3,136E+00
2	K-40	2,641E+02	20,8	5,487E+01	1,918E+00	5,134E+00
3	MN-54	---	---	---	1,662E-01	4,303E-01
4	CO-57	---	---	---	1,061E-01	2,587E-01
5	CO-60	---	---	---	3,014E-01	7,664E-01
6	ZN-65	---	---	---	6,097E-01	1,512E+00
7	SE-75	---	---	---	2,015E-01	5,018E-01
8	SR-85	---	---	---	1,358E-01	3,457E-01
9	Y-88	---	---	---	1,898E-01	5,390E-01
10	NB-94	---	---	---	1,980E-01	5,037E-01
11	RU-106	---	---	---	1,723E+00	4,393E+00
12	AG-108M	---	---	---	2,556E-01	6,460E-01
13	AG-110M	---	---	---	1,583E-01	4,181E-01
14	CD-109	---	---	---	2,975E+00	7,193E+00
15	SN-113	---	---	---	2,060E-01	5,128E-01
16	SB-125	---	---	---	3,942E-01	1,008E+00
17	I-129	---	---	---	3,481E+00	9,016E+00
18	CS-134	---	---	---	1,964E-01	4,941E-01
19	CS-137	---	---	---	2,108E-01	5,299E-01
20	CE-139	---	---	---	1,349E-01	3,282E-01
21	CE-144	---	---	---	9,436E-01	2,282E+00
22	EU-152	---	---	---	5,700E-01	1,402E+00
23	EU-154	---	---	---	1,102E+00	2,777E+00
24	HG-203	---	---	---	1,609E-01	3,928E-01
25	TL-208	---	---	---	2,610E-01	6,461E-01
26	PB-210	---	---	---	4,490E+00	1,117E+01
27	PB-212	---	---	---	3,352E-01	8,063E-01
28	PB-214	---	---	---	3,621E-01	8,983E-01
29	BI-212	---	---	---	2,628E+00	6,700E+00
30	BI-214	---	---	---	4,548E-01	1,132E+00
31	RA-223	---	---	---	3,106E+00	7,681E+00
32	RA-226	---	---	---	2,679E+00	6,574E+00
33	AC-228	---	---	---	8,772E-01	2,210E+00
34	TH-227	---	---	---	1,007E+00	2,600E+00
35	TH-230	---	---	---	3,316E+01	8,376E+01
36	TH-234	---	---	---	3,625E+00	9,653E+00
37	PA-234M	---	---	---	2,624E+01	6,681E+01
38	U-235	---	---	---	9,037E-01	2,195E+00
39	AM-241	---	---	---	3,702E-01	9,031E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 79

Auswertung des Gammaskopimetrischen: T2110088

Bezugsdatum:	14.10.2021 07:45:00	Detektor:	GMX4
Messdatum:	14.10.2021 13:30:00	Messzeit: (life)	1800.00 s
Alter der Probe:	20700 Sekunden	Messzeit: (real)	1800.24 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.215 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	14.10.2021 14:01:17	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20211014/01 PW2055 21/1813	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	aktiviert Bq/l	Titel Bq/l	Faktor Bq/l	ERG Bq/l	NW Bq/l
1	BE-7	---	---	---	1,352E+00	3,752E+00
2	K-40	2,819E+02	21,0	5,916E+01	2,964E+00	8,300E+00
3	MN-54	---	---	---	2,879E-01	7,602E-01
4	CO-57	---	---	---	1,550E-01	3,878E-01
5	CO-60	---	---	---	2,941E-01	8,357E-01
6	ZN-65	---	---	---	8,245E-01	2,134E+00
7	SE-75	---	---	---	2,849E-01	7,359E-01
8	SR-85	---	---	---	2,429E-01	6,265E-01
9	Y-88	---	---	---	2,878E-01	8,700E-01
10	NB-94	---	---	---	1,519E-01	4,572E-01
11	RU-106	---	---	---	1,842E+00	5,159E+00
12	AG-108M	---	---	---	2,951E-01	8,030E-01
13	AG-110M	---	---	---	3,419E-01	8,935E-01
14	CD-109	---	---	---	4,251E+00	1,053E+01
15	SN-113	---	---	---	2,959E-01	7,639E-01
16	SB-125	---	---	---	7,236E-01	1,868E+00
17	I-129	---	---	---	4,601E+00	1,230E+01
18	CS-134	---	---	---	2,138E-01	5,837E-01
19	CS-137	---	---	---	2,796E-01	7,401E-01
20	CE-139	---	---	---	1,856E-01	4,656E-01
21	CE-144	---	---	---	1,166E+00	2,930E+00
22	EU-152	---	---	---	7,085E-01	1,829E+00
23	EU-154	---	---	---	1,323E+00	3,561E+00
24	HG-203	---	---	---	2,353E-01	5,904E-01
25	TL-208	---	---	---	3,176E-01	8,301E-01
26	PB-210	---	---	---	5,826E+00	1,493E+01
27	PB-212	---	---	---	4,060E-01	1,015E+00
28	PB-214	---	---	---	5,871E-01	1,487E+00
29	BI-212	---	---	---	4,176E+00	1,097E+01
30	BI-214	---	---	---	6,807E-01	1,748E+00
31	RA-223	---	---	---	3,979E+00	1,032E+01
32	RA-226	---	---	---	3,784E+00	9,588E+00
33	AC-228	---	---	---	1,265E+00	3,317E+00
34	TH-227	---	---	---	1,533E+00	4,049E+00
35	TH-230	---	---	---	5,253E+01	1,347E+02
36	TH-234	---	---	---	5,374E+00	1,458E+01
37	PA-234M	---	---	---	3,892E+01	1,030E+02
38	U-235	---	---	---	1,287E+00	3,214E+00
39	AM-241	---	---	---	5,103E-01	1,278E+00

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 80

Auswertung des Gammaskopmetrischen: T211118

Bezugsdatum: 18.11.2021 07:45:00 Messdatum: 18.11.2021 12:45:00 Alter der Probe: 18000 Sekunden Probenmasse/Volumen: 1 Nuklidtabelle: RS2_REF2.ISO Ausbeutekurve: RS2REF_1.EFF Absorptionskurve: RS2_L01.ABS Nulldatei: UR2108T2.NUL Auswertedatum: 18.11.2021 13:38:20 Kommentar: P725004/20211118/01 PW2070 21/1963	Detektor: GMX2 Messzeit: (life) 2900.00 s Messzeit: (real) 2900.49 s Totzeit: 0.02 % Zählrate: 3.903 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.67 keV - 2.22 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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Nr.	Isotop	Aktivität [Bq]	Einheit [Bq]	Faktor [Bq]	ERG [Bq]	MWF [Bq]
1	BE-7	---	---	---	1,975E+00	5,148E+00
2	K-40	2,576E+02	21,0	5,415E+01	3,761E+00	1,024E+01
3	MN-54	---	---	---	3,311E-01	8,628E-01
4	CO-57	---	---	---	1,794E-01	4,387E-01
5	CO-60	---	---	---	3,820E-01	1,044E+00
6	ZN-65	---	---	---	8,670E-01	2,250E+00
7	SE-75	---	---	---	2,928E-01	7,429E-01
8	SR-85	---	---	---	2,544E-01	6,523E-01
9	Y-88	---	---	---	4,422E-01	1,237E+00
10	NB-94	---	---	---	4,136E-01	1,053E+00
11	RU-106	---	---	---	4,263E+00	1,062E+01
12	AG-108M	---	---	---	4,203E-01	1,083E+00
13	AG-110M	---	---	---	3,694E-01	9,509E-01
14	CD-109	---	---	---	4,366E+00	1,070E+01
15	SN-113	---	---	---	2,788E-01	7,223E-01
16	SB-125	---	---	---	7,077E-01	1,824E+00
17	I-129	---	---	---	4,078E+00	1,110E+01
18	CS-134	---	---	---	2,712E-01	7,105E-01
19	CS-137	---	---	---	2,913E-01	7,693E-01
20	CE-139	---	---	---	1,912E-01	4,722E-01
21	GE-144	---	---	---	1,301E+00	3,201E+00
22	EU-152	---	---	---	6,806E-01	1,749E+00
23	EU-154	---	---	---	1,864E+00	4,774E+00
24	HG-203	---	---	---	2,378E-01	5,919E-01
25	TL-208	---	---	---	4,296E-01	1,079E+00
26	PB-210	---	---	---	6,086E+00	1,567E+01
27	PB-212	---	---	---	4,717E-01	1,156E+00
28	PB-214	---	---	---	6,911E-01	1,715E+00
29	BI-212	---	---	---	4,462E+00	1,165E+01
30	BI-214	---	---	---	8,911E-01	2,221E+00
31	RA-226	---	---	---	4,697E+00	1,154E+01
32	AC-228	---	---	---	1,819E+00	4,590E+00
33	TH-227	---	---	---	1,756E+00	4,537E+00
34	TH-230	---	---	---	4,875E+01	1,255E+02
35	TH-234	---	---	---	5,528E+00	1,499E+01
36	PA-234M	---	---	---	4,917E+01	1,271E+02
37	U-235	---	---	---	1,376E+00	3,378E+00
38	AM-241	---	---	---	4,728E-01	1,191E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 81

Auswertung des Gammaskopimetrischen: T2112089

Bezugsdatum:	16.12.2021 07:40:00	Detektor:	GMX4
Messdatum:	16.12.2021 17:05:00	Messzeit: (life)	3600.00 s
Alter der Probe:	33900 Sekunden	Messzeit: (real)	3600.48 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.058 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.12.2021 18:07:25	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725004/20211216/01 PW2084 21/2151	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

W	Isotop	Aktivität [Bq]	Faktor [s]	Faktor [Bq]	Faktor [Bq]	NWF [Bq]
1	BE-7	---	---	---	---	1,106E+00
2	K-40	2,674E+02	20,8	5,555E+01	1,997E+00	5,313E+00
3	MN-54	---	---	---	2,200E-01	5,515E-01
4	CO-57	---	---	---	1,095E-01	2,664E-01
5	CO-60	---	---	---	3,014E-01	7,664E-01
6	ZN-65	---	---	---	5,924E-01	1,473E+00
7	SE-75	---	---	---	2,139E-01	5,299E-01
8	SR-85	---	---	---	1,933E-01	4,753E-01
9	Y-88	---	---	---	1,440E-01	4,355E-01
10	NB-94	---	---	---	2,245E-01	5,635E-01
11	RU-106	---	---	---	1,128E+00	3,048E+00
12	AG-108M	---	---	---	2,213E-01	5,685E-01
13	AG-110M	---	---	---	2,331E-01	5,873E-01
14	CD-109	---	---	---	3,076E+00	7,421E+00
15	SN-113	---	---	---	1,697E-01	4,310E-01
16	SB-125	---	---	---	4,145E-01	1,053E+00
17	I-129	---	---	---	3,279E+00	8,526E+00
18	CS-134	---	---	---	1,852E-01	4,688E-01
19	CS-137	---	---	---	2,022E-01	5,106E-01
20	CE-139	---	---	---	1,339E-01	3,259E-01
21	CE-144	---	---	---	9,002E-01	2,184E+00
22	EU-152	---	---	---	5,083E-01	1,263E+00
23	EU-154	---	---	---	8,539E-01	2,216E+00
24	HG-203	---	---	---	1,612E-01	3,935E-01
25	TL-208	---	---	---	2,324E-01	5,816E-01
26	PB-210	---	---	---	4,439E+00	1,105E+01
27	PB-212	---	---	---	2,844E-01	6,916E-01
28	PB-214	---	---	---	2,935E-01	7,436E-01
29	BI-212	---	---	---	2,255E+00	5,861E+00
30	BI-214	---	---	---	3,867E-01	9,787E-01
31	RA-223	---	---	---	3,025E+00	7,499E+00
32	RA-226	---	---	---	2,984E+00	7,264E+00
33	AC-228	---	---	---	6,795E-01	1,764E+00
34	TH-227	---	---	---	9,213E-01	2,395E+00
35	TH-230	---	---	---	3,775E+01	9,469E+01
36	TH-234	---	---	---	3,399E+00	9,084E+00
37	PA-234M	---	---	---	2,689E+01	6,827E+01
38	U-235	---	---	---	8,411E-01	2,053E+00
39	AM-241	---	---	---	3,748E-01	9,136E-01

Bemerkung

**Ergebnisse der internen gammaspektrometrischen
Messungen von Salzlösungen für das Jahr 2021**



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 82

4 Messergebnisse Laugenmessstelle L725005

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 83

Auswertung des Gammaskopimetrischen: T2101072

Bezugsdatum:	14.01.2021 07:00:00	Detektor:	GMX6
Messdatum:	14.01.2021 19:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	43200 Sekunden	Messzeit: (real)	3600.48 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	1.976 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T6.NUL	Halbwertsbreite:	1.12 keV - 2.10 keV
Auswertedatum:	15.01.2021 06:27:39	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L725005/20210114/01 PW1879 21/0061	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Minimat [dpm]	Relativ [%]	Fehler [dpm]	ERG [dpm]	MWL [dpm]
1	BE-7	---	---	---	9,375E-01	2,449E+00
2	K-40	3,591E+01	22,3	7,998E+00	1,492E+00	4,110E+00
3	MN-54	---	---	---	9,521E-02	2,671E-01
4	CO-57	---	---	---	7,086E-02	1,782E-01
5	CO-60	---	---	---	1,051E-01	3,171E-01
6	ZN-65	---	---	---	2,428E-01	6,760E-01
7	SE-75	---	---	---	1,865E-01	4,671E-01
8	SR-85	---	---	---	1,125E-01	2,911E-01
9	Y-88	---	---	---	1,336E-01	4,036E-01
10	NB-94	---	---	---	1,336E-01	3,551E-01
11	RU-106	---	---	---	8,823E-01	2,468E+00
12	AG-108M	---	---	---	1,488E-01	4,012E-01
13	AG-110M	---	---	---	1,071E-01	2,996E-01
14	CD-109	---	---	---	2,145E+00	5,294E+00
15	SN-113	---	---	---	1,498E-01	3,842E-01
16	SB-125	---	---	---	3,427E-01	8,853E-01
17	I-129	---	---	---	2,095E+00	5,816E+00
18	CS-134	---	---	---	1,356E-01	3,544E-01
19	CS-137	---	---	---	1,291E-01	3,429E-01
20	CE-139	---	---	---	9,404E-02	2,350E-01
21	CE-144	---	---	---	6,437E-01	1,598E+00
22	EU-152	---	---	---	3,768E-01	9,616E-01
23	EU-154	---	---	---	5,913E-01	1,607E+00
24	HG-203	---	---	---	1,266E-01	3,147E-01
25	TL-208	---	---	---	1,338E-01	3,559E-01
26	PB-210	---	---	---	3,267E+00	8,480E+00
27	PB-212	---	---	---	2,008E-01	5,020E-01
28	PB-214	---	---	---	2,833E-01	7,175E-01
29	BI-212	---	---	---	9,871E-01	2,960E+00
30	BI-214	---	---	---	3,447E-01	8,787E-01
31	RA-223	---	---	---	2,191E+00	5,594E+00
32	RA-226	---	---	---	2,373E+00	5,873E+00
33	AC-228	---	---	---	4,894E-01	1,322E+00
34	TH-227	---	---	---	7,940E-01	2,087E+00
35	TH-230	---	---	---	2,833E+01	7,255E+01
36	TH-234	---	---	---	2,282E+00	6,317E+00
37	PA-234M	---	---	---	1,868E+01	4,926E+01
38	U-235	---	---	---	7,435E-01	1,828E+00
39	AM-241	---	---	---	2,544E-01	6,432E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 84

Auswertung des Gammaskopimetrischen: T2102092

Bezugsdatum:	18.02.2021 07:25:00	Detektor:	GMX4
Messdatum:	19.02.2021 11:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	1.15 Tage	Messzeit: (real)	3600.31 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	1.928 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.02.2021 12:12:01	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20210218/01 PW1892 21/0210	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

IM	Isotop	ARV (d)	Faktor (%)	FWHM (keV)	ERC (cps)	NWC (cps)
1	BE-7	---	---	---	8,833E-01	2,347E+00
2	K-40	2,579E+01	23,3	6,007E+00	1,703E+00	4,649E+00
3	MN-54	---	---	---	1,381E-01	3,670E-01
4	CO-57	---	---	---	8,899E-02	2,200E-01
5	CO-60	---	---	---	1,471E-01	4,179E-01
6	ZN-65	---	---	---	3,616E-01	9,534E-01
7	SE-75	---	---	---	1,790E-01	4,510E-01
8	SR-85	---	---	---	1,199E-01	3,102E-01
9	Y-88	---	---	---	1,447E-01	4,376E-01
10	NB-94	---	---	---	1,366E-01	3,654E-01
11	RU-106	---	---	---	1,358E+00	3,568E+00
12	AG-108M	---	---	---	1,730E-01	4,591E-01
13	AG-110M	---	---	---	1,448E-01	3,878E-01
14	CD-109	---	---	---	2,219E+00	5,476E+00
15	SN-113	---	---	---	1,341E-01	3,510E-01
16	SB-125	---	---	---	3,001E-01	7,951E-01
17	I-129	---	---	---	2,146E+00	5,775E+00
18	CS-134	---	---	---	1,415E-01	3,701E-01
19	CS-137	---	---	---	1,333E-01	3,554E-01
20	CE-139	---	---	---	1,088E-01	2,692E-01
21	CE-144	---	---	---	5,940E-01	1,491E+00
22	EU-152	---	---	---	3,328E-01	8,661E-01
23	EU-154	---	---	---	6,972E-01	1,861E+00
24	HG-203	---	---	---	1,245E-01	3,111E-01
25	TL-208	---	---	---	1,513E-01	3,981E-01
26	PB-210	---	---	---	2,907E+00	7,452E+00
27	PB-212	---	---	---	2,011E-01	5,034E-01
28	PB-214	---	---	---	2,800E-01	7,130E-01
29	BI-212	---	---	---	2,334E+00	6,039E+00
30	BI-214	---	---	---	3,314E-01	8,539E-01
31	RA-223	---	---	---	2,168E+00	5,562E+00
32	RA-226	---	---	---	2,321E+00	5,763E+00
33	AC-228	---	---	---	4,641E-01	1,279E+00
34	TH-227	---	---	---	8,389E-01	2,198E+00
35	TH-230	---	---	---	2,240E+01	5,816E+01
36	TH-234	---	---	---	2,372E+00	6,500E+00
37	PA-234M	---	---	---	1,312E+01	3,721E+01
38	U-235	---	---	---	6,505E-01	1,622E+00
39	AM-241	---	---	---	2,498E-01	6,265E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 85

Auswertung des Gammaskopimetrischen: T2103136

Bezugsdatum:	18.03.2021 07:45:00	Detektor:	GMX2
Messdatum:	22.03.2021 14:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	4.27 Tage	Messzeit: (real)	3600.43 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.361 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	22.03.2021 16:21:56	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20210318/01 PW1909 21/0387	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Faktor [s]	Faktor [Bq]	Faktor [Bq]	RWF [s]
1	BE-7	---	---	---	2,076E+00	5,271E+00
2	K-40	3,315E+01	24,6	8,156E+00	4,094E+00	1,065E+01
3	MN-54	---	---	---	2,157E-01	5,809E-01
4	CO-57	---	---	---	1,163E-01	2,895E-01
5	CO-60	---	---	---	1,936E-01	5,837E-01
6	ZN-65	---	---	---	5,157E-01	1,403E+00
7	SE-75	---	---	---	2,475E-01	6,263E-01
8	SR-85	---	---	---	2,387E-01	6,043E-01
9	Y-88	---	---	---	2,599E-01	7,842E-01
10	NB-94	---	---	---	2,355E-01	6,280E-01
11	RU-106	---	---	---	2,204E+00	5,781E+00
12	AG-108M	---	---	---	2,575E-01	6,887E-01
13	AG-110M	---	---	---	2,419E-01	6,412E-01
14	CD-109	---	---	---	2,663E+00	6,673E+00
15	SN-113	---	---	---	2,657E-01	6,763E-01
16	SB-125	---	---	---	5,345E-01	1,390E+00
17	I-129	---	---	---	2,896E+00	7,966E+00
18	CS-134	---	---	---	2,431E-01	6,284E-01
19	CS-137	---	---	---	1,582E-01	4,473E-01
20	CE-139	---	---	---	1,355E-01	3,392E-01
21	CE-144	---	---	---	9,599E-01	2,380E+00
22	EU-152	---	---	---	7,141E-01	1,784E+00
23	EU-154	---	---	---	1,164E+00	3,083E+00
24	HG-203	---	---	---	1,805E-01	4,547E-01
25	TL-208	---	---	---	2,703E-01	6,982E-01
26	PB-210	---	---	---	4,118E+00	1,074E+01
27	PB-212	---	---	---	4,153E-01	1,011E+00
28	PB-214	---	---	---	5,103E-01	1,277E+00
29	BI-212	---	---	---	2,991E+00	8,027E+00
30	BI-214	---	---	---	4,570E-01	1,200E+00
31	RA-226	---	---	---	3,914E+00	9,596E+00
32	AC-228	---	---	---	1,163E+00	3,014E+00
33	TH-227	---	---	---	9,536E-01	2,555E+00
34	TH-230	---	---	---	3,425E+01	8,898E+01
35	TH-234	---	---	---	3,923E+00	1,073E+01
36	PA-234M	---	---	---	2,920E+01	7,893E+01
37	U-235	---	---	---	9,811E-01	2,432E+00
38	AM-241	---	---	---	3,403E-01	8,646E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 86

Auswertung des Gammaskopimetrischen: T2104080

Bezugsdatum:	15.04.2021 07:35:00	Detektor:	GMX2
Messdatum:	19.04.2021 15:30:00	Messzeit: (life)	5000.00 s
Alter der Probe:	4.33 Tage	Messzeit: (real)	5000.58 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.351 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.04.2021 16:54:13	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20210415/01 PW1924 21/0531	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	isotop	AMU/1	Energie	Effizien	EWG	NWG
		kgol	keV	-%	Bq/l	Bq/l
1	BE-7	---	---	---	1,286E+00	3,326E+00
2	K-40	3,776E+01	23,1	8,726E+00	3,031E+00	7,856E+00
3	MN-54	---	---	---	1,866E-01	4,890E-01
4	CO-57	---	---	---	9,912E-02	2,434E-01
5	CO-60	---	---	---	2,218E-01	6,061E-01
6	ZN-65	---	---	---	2,936E-01	8,352E-01
7	SE-75	---	---	---	2,245E-01	5,557E-01
8	SR-85	---	---	---	2,241E-01	5,529E-01
9	Y-88	---	---	---	1,872E-01	5,649E-01
10	NB-94	---	---	---	2,006E-01	5,222E-01
11	RU-106	---	---	---	1,705E+00	4,429E+00
12	AG-108M	---	---	---	2,305E-01	5,979E-01
13	AG-110M	---	---	---	2,349E-01	5,991E-01
14	CD-109	---	---	---	2,702E+00	6,597E+00
15	SN-113	---	---	---	2,096E-01	5,283E-01
16	SB-125	---	---	---	4,825E-01	1,221E+00
17	I-129	---	---	---	1,985E+00	5,486E+00
18	CS-134	---	---	---	1,959E-01	4,995E-01
19	CS-137	---	---	---	1,973E-01	5,100E-01
20	CE-139	---	---	---	1,105E-01	2,734E-01
21	CE-144	---	---	---	8,583E-01	2,093E+00
22	EU-152	---	---	---	4,904E-01	1,231E+00
23	EU-154	---	---	---	9,971E-01	2,579E+00
24	HG-203	---	---	---	1,553E-01	3,847E-01
25	TL-208	---	---	---	2,274E-01	5,768E-01
26	PB-210	---	---	---	3,606E+00	9,272E+00
27	PB-212	---	---	---	2,888E-01	7,048E-01
28	PB-214	---	---	---	4,415E-01	1,086E+00
29	BI-212	---	---	---	2,548E+00	6,669E+00
30	BI-214	---	---	---	4,452E-01	1,126E+00
31	RA-226	---	---	---	3,269E+00	7,930E+00
32	AC-228	---	---	---	9,375E-01	2,397E+00
33	TH-227	---	---	---	9,237E-01	2,405E+00
34	TH-230	---	---	---	2,756E+01	7,105E+01
35	TH-234	---	---	---	3,281E+00	8,888E+00
36	PA-234M	---	---	---	2,917E+01	7,519E+01
37	U-235	---	---	---	8,310E-01	2,034E+00
38	AM-241	---	---	---	2,657E-01	6,705E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 87

Auswertung des Gammaskopimetrischen: T2105105

Bezugsdatum:	12.05.2021 07:40:00	Detektor:	GMX4
Messdatum:	17.05.2021 12:50:02	Messzeit: (life)	3600.00 s
Alter der Probe:	5.22 Tage	Messzeit: (real)	3600.34 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.085 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	17.05.2021 14:24:13	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20210512/01 PW1942 21/0700	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität [Bq]	Fehler [%]	Fähigkeit [Bq]	EMF [Bq]	NWF [Bq]
1	BE-7	---	---	---	9,769E-01	2,578E+00
2	K-40	3,617E+01	22,4	8,092E+00	1,545E+00	4,291E+00
3	MN-54	---	---	---	1,732E-01	4,468E-01
4	CO-57	---	---	---	9,006E-02	2,226E-01
5	CO-60	---	---	---	1,614E-01	4,504E-01
6	ZN-65	---	---	---	2,078E-01	6,084E-01
7	SE-75	---	---	---	1,420E-01	3,682E-01
8	SR-85	---	---	---	1,464E-01	3,716E-01
9	Y-88	---	---	---	1,486E-01	4,493E-01
10	NB-94	---	---	---	1,433E-01	3,804E-01
11	RU-106	---	---	---	1,368E+00	3,595E+00
12	AG-108M	---	---	---	1,380E-01	3,799E-01
13	AG-110M	---	---	---	1,670E-01	4,387E-01
14	CD-109	---	---	---	2,344E+00	5,763E+00
15	SN-113	---	---	---	1,205E-01	3,216E-01
16	SB-125	---	---	---	3,515E-01	9,114E-01
17	I-129	---	---	---	2,444E+00	6,498E+00
18	CS-134	---	---	---	1,536E-01	3,976E-01
19	CS-137	---	---	---	1,333E-01	3,555E-01
20	CE-139	---	---	---	9,621E-02	2,411E-01
21	CE-144	---	---	---	7,066E-01	1,747E+00
22	EU-152	---	---	---	4,384E-01	1,105E+00
23	EU-154	---	---	---	5,840E-01	1,606E+00
24	HG-203	---	---	---	1,328E-01	3,317E-01
25	TL-208	---	---	---	1,679E-01	4,356E-01
26	PB-210	---	---	---	2,624E+00	6,787E+00
27	PB-212	---	---	---	2,042E-01	5,105E-01
28	PB-214	---	---	---	3,060E-01	7,718E-01
29	BI-212	---	---	---	1,906E+00	5,074E+00
30	BI-214	---	---	---	2,659E-01	7,060E-01
31	RA-223	---	---	---	2,438E+00	6,172E+00
32	RA-226	---	---	---	2,252E+00	5,607E+00
33	AC-228	---	---	---	6,077E-01	1,603E+00
34	TH-227	---	---	---	6,435E-01	1,731E+00
35	TH-230	---	---	---	2,340E+01	6,054E+01
36	TH-234	---	---	---	2,343E+00	6,425E+00
37	PA-234M	---	---	---	1,659E+01	4,505E+01
38	U-235	---	---	---	6,406E-01	1,600E+00
39	AM-241	---	---	---	1,897E-01	4,884E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 88

Auswertung des Gammaskopimetrischen: T2106209

Bezugsdatum:	18.06.2021 11:10:00	Detektor:	GMX2
Messdatum:	21.06.2021 09:00:00	Messzeit: (life)	5400.00 s
Alter der Probe:	2.91 Tage	Messzeit: (real)	5400.65 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.408 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	21.06.2021 10:36:19	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20210618/01 PW1977 21/0986	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Impuls [%]	Effizienz [%]	EKG [Bq]	NWZ [Bq]
1	BE-7	---	---	---	1,389E+00	3,519E+00
2	K-40	2,854E+01	23,9	6,810E+00	3,200E+00	8,163E+00
3	MN-54	---	---	---	1,788E-01	4,660E-01
4	CO-57	---	---	---	9,928E-02	2,423E-01
5	CO-60	---	---	---	1,451E-01	4,253E-01
6	ZN-65	---	---	---	3,633E-01	9,787E-01
7	SE-75	---	---	---	2,229E-01	5,482E-01
8	SR-85	---	---	---	1,584E-01	4,007E-01
9	Y-88	---	---	---	1,718E-01	5,182E-01
10	NB-94	---	---	---	1,720E-01	4,524E-01
11	RU-106	---	---	---	1,907E+00	4,841E+00
12	AG-108M	---	---	---	2,134E-01	5,536E-01
13	AG-110M	---	---	---	1,678E-01	4,421E-01
14	CD-109	---	---	---	2,356E+00	5,775E+00
15	SN-113	---	---	---	2,049E-01	5,132E-01
16	SB-125	---	---	---	4,360E-01	1,106E+00
17	I-129	---	---	---	1,958E+00	5,380E+00
18	CS-134	---	---	---	1,568E-01	4,068E-01
19	CS-137	---	---	---	1,564E-01	4,130E-01
20	CE-139	---	---	---	1,177E-01	2,879E-01
21	CE-144	---	---	---	8,329E-01	2,025E+00
22	EU-152	---	---	---	4,503E-01	1,131E+00
23	EU-154	---	---	---	8,954E-01	2,325E+00
24	HG-203	---	---	---	1,289E-01	3,217E-01
25	TL-208	---	---	---	1,875E-01	4,821E-01
26	PB-210	---	---	---	3,406E+00	8,747E+00
27	PB-212	---	---	---	2,445E-01	6,007E-01
28	PB-214	---	---	---	4,685E-01	1,141E+00
29	BI-212	---	---	---	2,951E+00	7,509E+00
30	BI-214	---	---	---	5,341E-01	1,318E+00
31	RA-226	---	---	---	3,208E+00	7,753E+00
32	AC-228	---	---	---	9,613E-01	2,430E+00
33	TH-227	---	---	---	7,732E-01	2,031E+00
34	TH-230	---	---	---	2,795E+01	7,165E+01
35	TH-234	---	---	---	3,338E+00	8,994E+00
36	PA-234M	---	---	---	3,096E+01	7,854E+01
37	U-235	---	---	---	7,989E-01	1,950E+00
38	AM-241	---	---	---	2,330E-01	5,905E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 89

Auswertung des Gammaskopimetrischen: T2107128

Bezugsdatum:	15.07.2021 07:30:00	Detektor:	GMX2
Messdatum:	15.07.2021 18:10:00	Messzeit: (life)	2200.00 s
Alter der Probe:	38400 Sekunden	Messzeit: (real)	2200.25 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.275 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	15.07.2021 18:47:47	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20210715/01 PW1996 21/1247	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq/l)	Gamma (%)	Gamma (Bq)	ERG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	1,651E+00	4,641E+00
2	K-40	2,748E+01	28,0	7,691E+00	6,028E+00	1,592E+01
3	MN-54	---	---	---	2,032E-01	6,117E-01
4	CO-57	---	---	---	1,660E-01	4,179E-01
5	CO-60	---	---	---	3,979E-01	1,138E+00
6	ZN-65	---	---	---	7,229E-01	2,019E+00
7	SE-75	---	---	---	3,300E-01	8,526E-01
8	SR-85	---	---	---	3,206E-01	8,267E-01
9	Y-88	---	---	---	4,148E-01	1,252E+00
10	NB-94	---	---	---	2,985E-01	8,319E-01
11	RU-106	---	---	---	1,987E+00	5,786E+00
12	AG-108M	---	---	---	3,112E-01	8,775E-01
13	AG-110M	---	---	---	2,641E-01	7,496E-01
14	CD-109	---	---	---	3,684E+00	9,375E+00
15	SN-113	---	---	---	3,004E-01	8,008E-01
16	SB-125	---	---	---	5,213E-01	1,476E+00
17	I-129	---	---	---	3,204E+00	9,187E+00
18	CS-134	---	---	---	3,287E-01	8,717E-01
19	CS-137	---	---	---	2,588E-01	7,318E-01
20	CE-139	---	---	---	1,884E-01	4,783E-01
21	CE-144	---	---	---	1,116E+00	2,858E+00
22	EU-152	---	---	---	7,620E-01	2,001E+00
23	EU-154	---	---	---	1,453E+00	4,026E+00
24	HG-203	---	---	---	2,080E-01	5,424E-01
25	TL-208	---	---	---	4,131E-01	1,077E+00
26	PB-210	---	---	---	4,332E+00	1,179E+01
27	PB-212	---	---	---	4,149E-01	1,056E+00
28	PB-214	---	---	---	7,459E-01	1,888E+00
29	BI-212	---	---	---	4,470E+00	1,218E+01
30	BI-214	---	---	---	8,114E-01	2,107E+00
31	RA-226	---	---	---	4,653E+00	1,174E+01
32	AC-228	---	---	---	1,318E+00	3,613E+00
33	TH-227	---	---	---	1,129E+00	3,152E+00
34	TH-230	---	---	---	4,386E+01	1,163E+02
35	TH-234	---	---	---	4,678E+00	1,311E+01
36	PA-234M	---	---	---	5,197E+01	1,386E+02
37	U-235	---	---	---	1,148E+00	2,943E+00
38	AM-241	---	---	---	4,190E-01	1,094E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 90

Auswertung des Gammaskopimetrischen: T2108072

Bezugsdatum:	12.08.2021 07:20:00	Detektor:	GMX6
Messdatum:	12.08.2021 15:20:00	Messzeit: (life)	2000.00 s
Alter der Probe:	28800 Sekunden	Messzeit: (real)	2000.40 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	2.037 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	12.08.2021 16:05:09	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L725005/20210812/01 PW2026 21/1485	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Lebens- dauer [a]	Lebens- dauer [a]	EKG [a]	NWC [Bq]
1	BE-7	---	---	---	9,646E-01	2,779E+00
2	K-40	3,172E+01	24,2	7,666E+00	2,790E+00	7,636E+00
3	MN-54	---	---	---	1,594E-01	4,537E-01
4	CO-57	---	---	---	9,769E-02	2,532E-01
5	CO-60	---	---	---	1,938E-01	5,813E-01
6	ZN-65	---	---	---	3,605E-01	1,044E+00
7	SE-75	---	---	---	1,936E-01	5,189E-01
8	SR-85	---	---	---	2,265E-01	5,781E-01
9	Y-88	---	---	---	2,402E-01	7,256E-01
10	NB-94	---	---	---	1,285E-01	3,869E-01
11	RU-106	---	---	---	1,305E+00	3,801E+00
12	AG-108M	---	---	---	2,226E-01	6,197E-01
13	AG-110M	---	---	---	1,591E-01	4,627E-01
14	CD-109	---	---	---	2,337E+00	6,067E+00
15	SN-113	---	---	---	2,336E-01	6,103E-01
16	SB-125	---	---	---	4,169E-01	1,142E+00
17	I-129	---	---	---	3,069E+00	8,736E+00
18	CS-134	---	---	---	1,853E-01	5,050E-01
19	CS-137	---	---	---	2,060E-01	5,578E-01
20	CE-139	---	---	---	1,099E-01	2,888E-01
21	CE-144	---	---	---	8,452E-01	2,168E+00
22	EU-152	---	---	---	4,540E-01	1,225E+00
23	EU-154	---	---	---	9,382E-01	2,608E+00
24	HG-203	---	---	---	1,590E-01	4,111E-01
25	TL-208	---	---	---	1,782E-01	4,988E-01
26	PB-210	---	---	---	3,579E+00	9,799E+00
27	PB-212	---	---	---	2,796E-01	7,188E-01
28	PB-214	---	---	---	2,633E-01	7,355E-01
29	BI-212	---	---	---	2,336E+00	6,589E+00
30	BI-214	---	---	---	5,140E-01	1,341E+00
31	RA-223	---	---	---	2,770E+00	7,420E+00
32	RA-226	---	---	---	2,759E+00	7,157E+00
33	AC-228	---	---	---	7,377E-01	2,056E+00
34	TH-227	---	---	---	8,618E-01	2,403E+00
35	TH-230	---	---	---	2,660E+01	7,236E+01
36	TH-234	---	---	---	1,987E+00	6,012E+00
37	PA-234M	---	---	---	1,689E+01	5,092E+01
38	U-235	---	---	---	9,767E-01	2,474E+00
39	AM-241	---	---	---	3,316E-01	8,661E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 91

Auswertung des Gammaskopimetrischen: T2109091

Bezugsdatum:	16.09.2021 07:45:00	Detektor:	GMX6
Messdatum:	16.09.2021 14:20:00	Messzeit: (life)	3600.00 s
Alter der Probe:	23700 Sekunden	Messzeit: (real)	3600.75 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	1.986 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	16.09.2021 15:21:34	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L725005/20210916/01 PW2040 21/1656	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Effiz. [%]	Effiz. [Bq]	Effiz. [Bq]	MWG [Bq]
1	BE-7	---	---	---	6,559E-01	1,814E+00
2	K-40	2,929E+01	22,7	6,649E+00	1,438E+00	3,990E+00
3	MN-54	---	---	---	1,252E-01	3,347E-01
4	CO-57	---	---	---	7,445E-02	1,863E-01
5	CO-60	---	---	---	1,390E-01	3,937E-01
6	ZN-65	---	---	---	2,986E-01	8,017E-01
7	SE-75	---	---	---	1,681E-01	4,253E-01
8	SR-85	---	---	---	7,555E-02	2,078E-01
9	Y-88	---	---	---	1,523E-01	4,458E-01
10	NB-94	---	---	---	1,426E-01	3,755E-01
11	RU-106	---	---	---	1,255E+00	3,311E+00
12	AG-108M	---	---	---	1,428E-01	3,876E-01
13	AG-110M	---	---	---	1,397E-01	3,732E-01
14	CD-109	---	---	---	1,770E+00	4,443E+00
15	SN-113	---	---	---	1,246E-01	3,275E-01
16	SB-125	---	---	---	4,198E-01	1,059E+00
17	I-129	---	---	---	1,879E+00	5,283E+00
18	CS-134	---	---	---	1,177E-01	3,138E-01
19	CS-137	---	---	---	1,279E-01	3,403E-01
20	CE-139	---	---	---	9,726E-02	2,423E-01
21	CE-144	---	---	---	5,750E-01	1,443E+00
22	EU-152	---	---	---	3,567E-01	9,162E-01
23	EU-154	---	---	---	6,018E-01	1,631E+00
24	HG-203	---	---	---	9,772E-02	2,495E-01
25	TL-208	---	---	---	1,565E-01	4,071E-01
26	PB-210	---	---	---	2,359E+00	6,324E+00
27	PB-212	---	---	---	1,942E-01	4,869E-01
28	PB-214	---	---	---	3,045E-01	7,652E-01
29	BI-212	---	---	---	1,422E+00	3,940E+00
30	BI-214	---	---	---	3,283E-01	8,415E-01
31	RA-223	---	---	---	1,754E+00	4,609E+00
32	RA-226	---	---	---	1,898E+00	4,801E+00
33	AC-228	---	---	---	6,032E-01	1,579E+00
34	TH-227	---	---	---	5,774E-01	1,570E+00
35	TH-230	---	---	---	1,951E+01	5,149E+01
36	TH-234	---	---	---	1,746E+00	4,961E+00
37	PA-234M	---	---	---	9,642E+00	2,886E+01
38	U-235	---	---	---	5,861E-01	1,473E+00
39	AM-241	---	---	---	2,171E-01	5,570E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 92

Auswertung des Gammaskopimetrischen: T2110089

Bezugsdatum:	14.10.2021 07:25:00	Detektor:	GMX2
Messdatum:	14.10.2021 13:30:00	Messzeit: (life)	5400.00 s
Alter der Probe:	21900 Sekunden	Messzeit: (real)	5400.63 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.303 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	14.10.2021 15:22:20	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20211014/01 PW2055 21/1814	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Fehler [%]	Ergebnis [Bq]	Ergebnis [Bq/l]	MWD [Bq]
1	BE-7	---	---	---	1,526E+00	3,814E+00
2	K-40	3,320E+01	23,3	7,722E+00	2,878E+00	7,436E+00
3	MN-54	---	---	---	2,072E-01	5,296E-01
4	CO-57	---	---	---	1,053E-01	2,558E-01
5	CO-60	---	---	---	1,919E-01	5,308E-01
6	ZN-65	---	---	---	3,988E-01	1,058E+00
7	SE-75	---	---	---	2,144E-01	5,283E-01
8	SR-85	---	---	---	1,787E-01	4,453E-01
9	Y-88	---	---	---	1,940E-01	5,662E-01
10	NB-94	---	---	---	1,490E-01	4,007E-01
11	RU-106	---	---	---	1,515E+00	3,952E+00
12	AG-108M	---	---	---	2,071E-01	5,394E-01
13	AG-110M	---	---	---	1,735E-01	4,544E-01
14	CD-109	---	---	---	2,365E+00	5,793E+00
15	SN-113	---	---	---	1,686E-01	4,305E-01
16	SB-125	---	---	---	3,801E-01	9,797E-01
17	I-129	---	---	---	1,818E+00	5,028E+00
18	CS-134	---	---	---	2,213E-01	5,523E-01
19	CS-137	---	---	---	2,001E-01	5,116E-01
20	CE-139	---	---	---	1,096E-01	2,694E-01
21	CE-144	---	---	---	7,186E-01	1,764E+00
22	EU-152	---	---	---	4,639E-01	1,162E+00
23	EU-154	---	---	---	9,229E-01	2,387E+00
24	HG-203	---	---	---	1,435E-01	3,535E-01
25	TL-208	---	---	---	2,421E-01	6,052E-01
26	PB-210	---	---	---	3,483E+00	8,931E+00
27	PB-212	---	---	---	3,205E-01	7,727E-01
28	PB-214	---	---	---	3,911E-01	9,660E-01
29	BI-212	---	---	---	2,514E+00	6,524E+00
30	BI-214	---	---	---	5,365E-01	1,323E+00
31	RA-226	---	---	---	3,356E+00	8,087E+00
32	AC-228	---	---	---	8,292E-01	2,132E+00
33	TH-227	---	---	---	8,996E-01	2,333E+00
34	TH-230	---	---	---	2,820E+01	7,223E+01
35	TH-234	---	---	---	3,110E+00	8,413E+00
36	PA-234M	---	---	---	2,534E+01	6,586E+01
37	U-235	---	---	---	9,227E-01	2,231E+00
38	AM-241	---	---	---	2,441E-01	6,165E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 93

Auswertung des Gammaskopimetrischen: T2111127

Bezugsdatum:	18.11.2021 07:35:00	Detektor:	GMX2
Messdatum:	18.11.2021 20:00:00	Messzeit: (life)	7200.00 s
Alter der Probe:	44700 Sekunden	Messzeit: (real)	7200.81 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.274 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.11.2021 08:01:16	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20211118/01 PW2070 21/1990	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	isotop	Aktivität (Bq)	Faktor (1/g)	Faktor (1/cm³)	ERG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	1,031E+00	2,607E+00
2	K-40	2,779E+01	23,1	6,430E+00	2,391E+00	6,102E+00
3	MN-54	---	---	---	1,595E-01	4,065E-01
4	CO-57	---	---	---	7,840E-02	1,906E-01
5	CO-60	---	---	---	1,804E-01	4,805E-01
6	ZN-65	---	---	---	3,934E-01	1,006E+00
7	SE-75	---	---	---	1,649E-01	4,057E-01
8	SR-85	---	---	---	1,162E-01	2,939E-01
9	Y-88	---	---	---	1,785E-01	4,994E-01
10	NB-94	---	---	---	1,536E-01	3,948E-01
11	RU-106	---	---	---	1,578E+00	3,964E+00
12	AG-108M	---	---	---	1,737E-01	4,461E-01
13	AG-110M	---	---	---	1,655E-01	4,209E-01
14	CD-109	---	---	---	2,028E+00	4,927E+00
15	SN-113	---	---	---	1,423E-01	3,588E-01
16	SB-125	---	---	---	3,704E-01	9,274E-01
17	I-129	---	---	---	1,587E+00	4,331E+00
18	CS-134	---	---	---	1,421E-01	3,605E-01
19	CS-137	---	---	---	1,697E-01	4,278E-01
20	CE-139	---	---	---	9,911E-02	2,403E-01
21	CE-144	---	---	---	6,213E-01	1,510E+00
22	EU-152	---	---	---	3,905E-01	9,673E-01
23	EU-154	---	---	---	7,694E-01	1,965E+00
24	HG-203	---	---	---	1,174E-01	2,873E-01
25	TL-208	---	---	---	1,793E-01	4,488E-01
26	PB-210	---	---	---	2,865E+00	7,306E+00
27	PB-212	---	---	---	2,345E-01	5,662E-01
28	PB-214	---	---	---	3,444E-01	8,398E-01
29	BI-212	---	---	---	1,966E+00	5,073E+00
30	BI-214	---	---	---	4,000E-01	9,872E-01
31	RA-226	---	---	---	2,617E+00	6,294E+00
32	AC-228	---	---	---	7,712E-01	1,935E+00
33	TH-227	---	---	---	7,579E-01	1,948E+00
34	TH-230	---	---	---	2,318E+01	5,907E+01
35	TH-234	---	---	---	2,816E+00	7,541E+00
36	PA-234M	---	---	---	2,200E+01	5,614E+01
37	U-235	---	---	---	7,435E-01	1,790E+00
38	AM-241	---	---	---	2,150E-01	5,367E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 94

Auswertung des Gammaskopimetrischen: T2112110

Bezugsdatum:	16.12.2021 07:30:00	Detektor:	GMX4
Messdatum:	20.12.2021 09:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	4.06 Tage	Messzeit: (real)	3600.31 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	1.873 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	20.12.2021 10:16:34	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725005/20211216/01 PW2084 21/2162	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AKTIVITÄT (Bq)	PERIODE (a)	TOXIZITÄT (Bq)	BIQ (Bq)	DWGE (Bq)
1	BE-7	---	---	---	1,046E+00	2,728E+00
2	K-40	2,482E+01	23,2	5,760E+00	1,354E+00	3,861E+00
3	MN-54	---	---	---	1,257E-01	3,395E-01
4	CO-57	---	---	---	6,918E-02	1,752E-01
5	CO-60	---	---	---	2,082E-01	5,562E-01
6	ZN-65	---	---	---	2,620E-01	7,301E-01
7	SE-75	---	---	---	1,362E-01	3,549E-01
8	SR-85	---	---	---	1,391E-01	3,546E-01
9	Y-88	---	---	---	1,475E-01	4,460E-01
10	NB-94	---	---	---	1,433E-01	3,804E-01
11	RU-106	---	---	---	9,275E-01	2,598E+00
12	AG-108M	---	---	---	1,807E-01	4,766E-01
13	AG-110M	---	---	---	1,131E-01	3,165E-01
14	CD-109	---	---	---	2,002E+00	4,984E+00
15	SN-113	---	---	---	1,311E-01	3,452E-01
16	SB-125	---	---	---	3,512E-01	9,107E-01
17	I-129	---	---	---	2,024E+00	5,478E+00
18	CS-134	---	---	---	1,419E-01	3,712E-01
19	CS-137	---	---	---	1,686E-01	4,351E-01
20	CE-139	---	---	---	8,454E-02	2,145E-01
21	CE-144	---	---	---	7,246E-01	1,788E+00
22	EU-152	---	---	---	3,647E-01	9,383E-01
23	EU-154	---	---	---	7,956E-01	2,084E+00
24	HG-203	---	---	---	1,294E-01	3,233E-01
25	TL-208	---	---	---	1,608E-01	4,196E-01
26	PB-210	---	---	---	2,741E+00	7,062E+00
27	PB-212	---	---	---	1,596E-01	4,097E-01
28	PB-214	---	---	---	2,290E-01	5,980E-01
29	BI-212	---	---	---	1,595E+00	4,372E+00
30	BI-214	---	---	---	3,141E-01	8,148E-01
31	RA-223	---	---	---	1,927E+00	5,019E+00
32	RA-226	---	---	---	2,231E+00	5,561E+00
33	AC-228	---	---	---	6,564E-01	1,712E+00
34	TH-227	---	---	---	7,049E-01	1,878E+00
35	TH-230	---	---	---	2,472E+01	6,368E+01
36	TH-234	---	---	---	2,116E+00	5,854E+00
37	PA-234M	---	---	---	1,760E+01	4,732E+01
38	U-235	---	---	---	6,859E-01	1,702E+00
39	AM-241	---	---	---	2,229E-01	5,647E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 95

5 Messergebnisse Laugenmessstelle L725006

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 96

Auswertung des Gammaskopimetrischen: T2101067

Bezugsdatum:	14.01.2021 07:20:00	Detektor:	GMX4
Messdatum:	14.01.2021 13:40:00	Messzeit: (life)	2700.00 s
Alter der Probe:	22800 Sekunden	Messzeit: (real)	2700.46 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	5.568 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	14.01.2021 14:25:57	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210114/01 PW1879 21/0056	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (µCi)	Fehler (PK)	Fehler (Bq)	KEG (µCi)	NWA (µCi)
1	BE-7	---	---	---	1,563E+00	3,993E+00
2	K-40	4,246E+02	20,7	8,801E+01	2,263E+00	6,181E+00
3	MN-54	---	---	---	2,352E-01	6,044E-01
4	CO-57	---	---	---	1,734E-01	4,172E-01
5	CO-60	---	---	---	3,723E-01	9,551E-01
6	ZN-65	---	---	---	7,647E-01	1,908E+00
7	SE-75	---	---	---	3,619E-01	8,803E-01
8	SR-85	---	---	---	2,509E-01	6,182E-01
9	Y-88	---	---	---	1,919E-01	5,801E-01
10	NB-94	---	---	---	2,883E-01	7,263E-01
11	RU-106	---	---	---	2,007E+00	5,200E+00
12	AG-108M	---	---	---	3,264E-01	8,289E-01
13	AG-110M	---	---	---	2,438E-01	6,316E-01
14	CD-109	---	---	---	3,891E+00	9,416E+00
15	SN-113	---	---	---	2,878E-01	7,133E-01
16	SB-125	---	---	---	7,439E-01	1,836E+00
17	I-129	---	---	---	4,868E+00	1,257E+01
18	CS-134	---	---	---	2,715E-01	6,807E-01
19	CS-137	---	---	---	2,386E-01	6,111E-01
20	CE-139	---	---	---	1,756E-01	4,278E-01
21	CE-144	---	---	---	1,225E+00	2,969E+00
22	EU-152	---	---	---	5,732E-01	1,447E+00
23	EU-154	---	---	---	1,411E+00	3,570E+00
24	HG-203	---	---	---	2,022E-01	4,959E-01
25	TL-208	---	---	---	2,504E-01	6,408E-01
26	PB-210	---	---	---	5,456E+00	1,365E+01
27	PB-212	---	---	---	3,266E-01	8,033E-01
28	PB-214	---	---	---	5,271E-01	1,298E+00
29	BI-212	---	---	---	3,316E+00	8,511E+00
30	BI-214	---	---	---	5,392E-01	1,358E+00
31	RA-223	---	---	---	3,635E+00	9,097E+00
32	RA-226	---	---	---	3,699E+00	9,052E+00
33	AC-228	---	---	---	1,303E+00	3,249E+00
34	TH-227	---	---	---	1,103E+00	2,893E+00
35	TH-230	---	---	---	4,728E+01	1,190E+02
36	TH-234	---	---	---	4,784E+00	1,275E+01
37	PA-234M	---	---	---	3,587E+01	9,108E+01
38	U-235	---	---	---	1,300E+00	3,141E+00
39	AM-241	---	---	---	4,947E-01	1,207E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 97

Auswertung des Gammaskopimetrischen: T2102088

Bezugsdatum:	18.02.2021 08:10:00	Detektor:	GMX4
Messdatum:	18.02.2021 17:20:00	Messzeit: (life)	3600.00 s
Alter der Probe:	33000 Sekunden	Messzeit: (real)	3600.69 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.625 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.02.2021 18:20:32	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210218/01 PW1892 21/0208	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

ID	Identif.	Amplitude (cps)	Faktor (cps)	Effizienz (cps)	SKG (cps)	MWE (cps)
1	BE-7	---	---	---	1,540E+00	3,823E+00
2	K-40	5,306E+02	20,7	1,096E+02	2,169E+00	5,701E+00
3	MN-54	---	---	---	2,562E-01	6,332E-01
4	CO-57	---	---	---	1,450E-01	3,468E-01
5	CO-60	---	---	---	2,790E-01	7,158E-01
6	ZN-65	---	---	---	7,696E-01	1,873E+00
7	SE-75	---	---	---	2,595E-01	6,332E-01
8	SR-85	---	---	---	2,330E-01	5,647E-01
9	Y-88	---	---	---	1,699E-01	4,940E-01
10	NB-94	---	---	---	2,444E-01	6,082E-01
11	RU-106	---	---	---	2,318E+00	5,738E+00
12	AG-108M	---	---	---	2,996E-01	7,457E-01
13	AG-110M	---	---	---	2,817E-01	6,973E-01
14	CD-109	---	---	---	3,927E+00	9,353E+00
15	SN-113	---	---	---	2,311E-01	5,696E-01
16	SB-125	---	---	---	5,501E-01	1,360E+00
17	I-129	---	---	---	4,506E+00	1,150E+01
18	CS-134	---	---	---	2,138E-01	5,334E-01
19	CS-137	---	---	---	2,190E-01	5,485E-01
20	CE-139	---	---	---	1,723E-01	4,128E-01
21	CE-144	---	---	---	1,156E+00	2,763E+00
22	EU-152	---	---	---	6,543E-01	1,592E+00
23	EU-154	---	---	---	1,227E+00	3,060E+00
24	HG-203	---	---	---	1,851E-01	4,474E-01
25	TL-208	---	---	---	2,552E-01	6,331E-01
26	PB-210	---	---	---	5,651E+00	1,390E+01
27	PB-212	---	---	---	3,396E-01	8,161E-01
28	PB-214	---	---	---	4,777E-01	1,159E+00
29	BI-212	---	---	---	3,462E+00	8,582E+00
30	BI-214	---	---	---	6,088E-01	1,480E+00
31	RA-223	---	---	---	3,621E+00	8,842E+00
32	RA-226	---	---	---	3,573E+00	8,595E+00
33	AC-228	---	---	---	1,081E+00	2,671E+00
34	TH-227	---	---	---	1,229E+00	3,130E+00
35	TH-230	---	---	---	4,027E+01	1,007E+02
36	TH-234	---	---	---	4,697E+00	1,235E+01
37	PA-234M	---	---	---	3,935E+01	9,639E+01
38	U-235	---	---	---	1,006E+00	2,428E+00
39	AM-241	---	---	---	4,660E-01	1,123E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 98
NNAA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2103113

Bezugsdatum: 18.03.2021 08:20:00	Detektor: GMX2
Messdatum: 18.03.2021 12:45:00	Messzeit: (life) 3600.00 s
Alter der Probe: 15900 Sekunden	Messzeit: (real) 3600.82 s
Probenmasse/Volumen: 1	Totzeit: 0.02 %
Nuklidtabelle: RS2_REF2.ISO	Zählrate: 5.512 cps
Ausbeutekurve: RS2REF_1.EFF	Fensterbreite:
Absorptionskurve: RS2_L01.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2008T2.NUL	Halbwertsbreite: 0.67 keV - 2.22 keV
Auswertedatum: 18.03.2021 13:55:51	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: L725006/20210318/01 PW1909 21/0368	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Faktor [%]	Faktor [Bq]	BKG [Bq]	NWG [Bq]
1	BE-7	---	---	---	2,172E+00	5,457E+00
2	K-40	5,103E+02	20,7	1,056E+02	4,519E+00	1,161E+01
3	MN-54	---	---	---	3,022E-01	7,752E-01
4	CO-57	---	---	---	1,765E-01	4,259E-01
5	CO-60	---	---	---	4,863E-01	1,244E+00
6	ZN-65	---	---	---	1,111E+00	2,742E+00
7	SE-75	---	---	---	4,083E-01	9,889E-01
8	SR-85	---	---	---	2,607E-01	6,511E-01
9	Y-88	---	---	---	2,531E-01	7,637E-01
10	NB-94	---	---	---	3,330E-01	8,478E-01
11	RU-106	---	---	---	3,267E+00	8,178E+00
12	AG-108M	---	---	---	3,201E-01	8,304E-01
13	AG-110M	---	---	---	3,606E-01	9,086E-01
14	CD-109	---	---	---	4,299E+00	1,041E+01
15	SN-113	---	---	---	3,844E-01	9,424E-01
16	SB-125	---	---	---	6,528E-01	1,656E+00
17	I-129	---	---	---	4,432E+00	1,182E+01
18	CS-134	---	---	---	2,904E-01	7,348E-01
19	CS-137	---	---	---	3,241E-01	8,212E-01
20	CE-139	---	---	---	2,151E-01	5,190E-01
21	CE-144	---	---	---	1,275E+00	3,093E+00
22	EU-152	---	---	---	8,619E-01	2,117E+00
23	EU-154	---	---	---	1,424E+00	3,670E+00
24	HG-203	---	---	---	2,086E-01	5,152E-01
25	TL-208	---	---	---	3,742E-01	9,328E-01
26	PB-210	---	---	---	6,610E+00	1,673E+01
27	PB-212	---	---	---	4,526E-01	1,095E+00
28	PB-214	---	---	---	6,346E-01	1,557E+00
29	BI-212	---	---	---	4,730E+00	1,195E+01
30	BI-214	---	---	---	7,682E-01	1,903E+00
31	RA-226	---	---	---	4,881E+00	1,178E+01
32	AC-228	---	---	---	1,345E+00	3,425E+00
33	TH-227	---	---	---	1,571E+00	4,029E+00
34	TH-230	---	---	---	4,446E+01	1,136E+02
35	TH-234	---	---	---	5,822E+00	1,557E+01
36	PA-234M	---	---	---	5,444E+01	1,358E+02
37	U-235	---	---	---	1,348E+00	3,265E+00
38	AM-241	---	---	---	5,399E-01	1,329E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 99

Auswertung des Gammaskopimetrischen: T2104065

Bezugsdatum:	15.04.2021 07:50:00	Detektor:	GMX2
Messdatum:	16.04.2021 11:15:00	Messzeit: (life)	5400.00 s
Alter der Probe:	1.14 Tage	Messzeit: (real)	5400.98 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.192 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.04.2021 13:23:42	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210415/01 PW1924 21/0523	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	(dpm/100ml)	(Bq/l)	(dpm/l)	(Bq/l)	MVA (Bq/l)
1	BE-7	---	---	---	---	4,127E+00
2	K-40	3,193E+02	20,7	6,610E+01	3,131E+00	8,006E+00
3	MN-54	---	---	---	2,332E-01	5,883E-01
4	CO-57	---	---	---	1,128E-01	2,730E-01
5	CO-60	---	---	---	3,478E-01	8,826E-01
6	ZN-65	---	---	---	6,921E-01	1,719E+00
7	SE-75	---	---	---	2,434E-01	5,942E-01
8	SR-85	---	---	---	2,216E-01	5,424E-01
9	Y-88	---	---	---	2,388E-01	6,682E-01
10	NB-94	---	---	---	2,764E-01	6,878E-01
11	RU-106	---	---	---	2,066E+00	5,200E+00
12	AG-108M	---	---	---	2,882E-01	7,229E-01
13	AG-110M	---	---	---	2,209E-01	5,618E-01
14	CD-109	---	---	---	3,195E+00	7,691E+00
15	SN-113	---	---	---	2,396E-01	5,908E-01
16	SB-125	---	---	---	5,541E-01	1,373E+00
17	I-129	---	---	---	3,078E+00	8,190E+00
18	CS-134	---	---	---	2,001E-01	5,045E-01
19	CS-137	---	---	---	2,829E-01	6,981E-01
20	CE-139	---	---	---	1,278E-01	3,105E-01
21	CE-144	---	---	---	9,411E-01	2,270E+00
22	EU-152	---	---	---	5,638E-01	1,387E+00
23	EU-154	---	---	---	1,205E+00	3,024E+00
24	HG-203	---	---	---	1,683E-01	4,100E-01
25	TL-208	---	---	---	2,804E-01	6,918E-01
26	PB-210	---	---	---	4,375E+00	1,107E+01
27	PB-212	---	---	---	3,653E-01	8,738E-01
28	PB-214	---	---	---	4,515E-01	1,102E+00
29	BI-212	---	---	---	3,568E+00	8,899E+00
30	BI-214	---	---	---	6,467E-01	1,572E+00
31	RA-226	---	---	---	3,289E+00	7,936E+00
32	AC-228	---	---	---	1,222E+00	3,017E+00
33	TH-227	---	---	---	1,144E+00	2,916E+00
34	TH-230	---	---	---	3,765E+01	9,497E+01
35	TH-234	---	---	---	3,984E+00	1,064E+01
36	PA-234M	---	---	---	3,538E+01	8,851E+01
37	U-235	---	---	---	1,003E+00	2,412E+00
38	AM-241	---	---	---	3,723E-01	9,150E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 100

Auswertung des Gammaskopimetrischen: T2105088

Bezugsdatum:	12.05.2021 08:20:00	Detektor:	GMX2
Messdatum:	12.05.2021 12:15:00	Messzeit: (life)	4800.00 s
Alter der Probe:	14100 Sekunden	Messzeit: (real)	4800.89 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.295 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	12.05.2021 13:38:05	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210512/01 PW1942 21/0694	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität Bq/l	Feinheit %	Feinheit Bq/l	EKG Bq/l	NWF Bq/l
1	BE-7	---	---	---	1,741E+00	4,345E+00
2	K-40	3,245E+02	20,7	6,726E+01	3,570E+00	9,115E+00
3	MN-54	---	---	---	2,562E-01	6,480E-01
4	CO-57	---	---	---	1,158E-01	2,819E-01
5	CO-60	---	---	---	3,555E-01	9,121E-01
6	ZN-65	---	---	---	7,996E-01	1,981E+00
7	SE-75	---	---	---	2,673E-01	6,534E-01
8	SR-85	---	---	---	2,522E-01	6,162E-01
9	Y-88	---	---	---	2,670E-01	7,470E-01
10	NB-94	---	---	---	3,159E-01	7,850E-01
11	RU-106	---	---	---	2,451E+00	6,133E+00
12	AG-108M	---	---	---	2,538E-01	6,539E-01
13	AG-110M	---	---	---	2,963E-01	7,398E-01
14	CD-109	---	---	---	3,312E+00	8,007E+00
15	SN-113	---	---	---	2,571E-01	6,364E-01
16	SB-125	---	---	---	5,949E-01	1,480E+00
17	I-129	---	---	---	3,404E+00	9,066E+00
18	CS-134	---	---	---	2,609E-01	6,484E-01
19	CS-137	---	---	---	2,598E-01	6,537E-01
20	CE-139	---	---	---	1,408E-01	3,427E-01
21	CE-144	---	---	---	9,179E-01	2,233E+00
22	EU-152	---	---	---	6,333E-01	1,558E+00
23	EU-154	---	---	---	1,126E+00	2,883E+00
24	HG-203	---	---	---	1,802E-01	4,401E-01
25	TL-208	---	---	---	2,708E-01	6,774E-01
26	PB-210	---	---	---	4,443E+00	1,131E+01
27	PB-212	---	---	---	3,758E-01	9,037E-01
28	PB-214	---	---	---	4,751E-01	1,166E+00
29	BI-212	---	---	---	3,547E+00	8,960E+00
30	BI-214	---	---	---	6,251E-01	1,538E+00
31	RA-226	---	---	---	3,818E+00	9,194E+00
32	AC-228	---	---	---	1,050E+00	2,662E+00
33	TH-227	---	---	---	1,136E+00	2,921E+00
34	TH-230	---	---	---	3,633E+01	9,236E+01
35	TH-234	---	---	---	4,566E+00	1,219E+01
36	PA-234M	---	---	---	4,183E+01	1,042E+02
37	U-235	---	---	---	1,026E+00	2,481E+00
38	AM-241	---	---	---	4,150E-01	1,020E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 101

Auswertung des Gammaskopimetrischen: T2106290

Bezugsdatum:	24.06.2021 08:15:00	Detektor:	GMX2
Messdatum:	24.06.2021 18:40:00	Messzeit: (life)	3600.00 s
Alter der Probe:	37500 Sekunden	Messzeit: (real)	3600.67 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.307 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	24.06.2021 19:42:19	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210624/01 PW1971 21/1058	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Fehler (%)	Fehler (Bq)	HWG (Bq)	MWG (s)
1	BE-7	---	---	---	2,329E+00	5,814E+00
2	K-40	3,078E+02	20,8	6,413E+01	3,957E+00	1,034E+01
3	MN-54	---	---	---	3,188E-01	8,125E-01
4	CO-57	---	---	---	1,556E-01	3,786E-01
5	CO-60	---	---	---	4,350E-01	1,128E+00
6	ZN-65	---	---	---	8,835E-01	2,230E+00
7	SE-75	---	---	---	2,655E-01	6,656E-01
8	SR-85	---	---	---	2,700E-01	6,722E-01
9	Y-88	---	---	---	3,566E-01	9,977E-01
10	NB-94	---	---	---	3,797E-01	9,530E-01
11	RU-106	---	---	---	2,847E+00	7,228E+00
12	AG-108M	---	---	---	3,723E-01	9,486E-01
13	AG-110M	---	---	---	3,536E-01	8,927E-01
14	CD-109	---	---	---	3,828E+00	9,330E+00
15	SN-113	---	---	---	2,652E-01	6,734E-01
16	SB-125	---	---	---	6,372E-01	1,621E+00
17	I-129	---	---	---	3,823E+00	1,029E+01
18	CS-134	---	---	---	2,925E-01	7,396E-01
19	CS-137	---	---	---	2,739E-01	7,081E-01
20	CE-139	---	---	---	1,759E-01	4,300E-01
21	CE-144	---	---	---	1,163E+00	2,839E+00
22	EU-152	---	---	---	6,327E-01	1,600E+00
23	EU-154	---	---	---	1,644E+00	4,167E+00
24	HG-203	---	---	---	2,068E-01	5,113E-01
25	TL-208	---	---	---	3,071E-01	7,814E-01
26	PB-210	---	---	---	5,525E+00	1,412E+01
27	PB-212	---	---	---	4,312E-01	1,047E+00
28	PB-214	---	---	---	5,097E-01	1,275E+00
29	BI-212	---	---	---	4,394E+00	1,119E+01
30	BI-214	---	---	---	5,948E-01	1,511E+00
31	RA-226	---	---	---	4,353E+00	1,059E+01
32	AC-228	---	---	---	1,411E+00	3,575E+00
33	TH-227	---	---	---	1,442E+00	3,720E+00
34	TH-230	---	---	---	4,342E+01	1,111E+02
35	TH-234	---	---	---	5,106E+00	1,374E+01
36	PA-234M	---	---	---	4,920E+01	1,240E+02
37	U-235	---	---	---	1,375E+00	3,325E+00
38	AM-241	---	---	---	4,863E-01	1,204E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 102

Auswertung des Gammaskopimetrischen: T2107121

Bezugsdatum:	15.07.2021 08:05:00	Detektor:	GMX4
Messdatum:	15.07.2021 12:50:00	Messzeit: (life)	3600.00 s
Alter der Probe:	17100 Sekunden	Messzeit: (real)	3600.55 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.693 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	15.07.2021 14:06:21	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210715/01 PW1996 21/1244	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Wirkung (%)	Zeitpunkt (Tag)	ERG (mSv/h)	MWV (mSv/h)
1	BE-7	---	---	---	1,264E+00	3,202E+00
2	K-40	3,349E+02	20,7	6,940E+01	1,990E+00	5,296E+00
3	MN-54	---	---	---	2,119E-01	5,332E-01
4	CO-57	---	---	---	1,195E-01	2,891E-01
5	CO-60	---	---	---	2,711E-01	6,981E-01
6	ZN-65	---	---	---	6,232E-01	1,543E+00
7	SE-75	---	---	---	2,467E-01	6,042E-01
8	SR-85	---	---	---	1,333E-01	3,399E-01
9	Y-88	---	---	---	1,898E-01	5,388E-01
10	NB-94	---	---	---	2,367E-01	5,908E-01
11	RU-106	---	---	---	1,407E+00	3,678E+00
12	AG-108M	---	---	---	2,951E-01	7,354E-01
13	AG-110M	---	---	---	2,093E-01	5,336E-01
14	CD-109	---	---	---	3,124E+00	7,529E+00
15	SN-113	---	---	---	2,124E-01	5,273E-01
16	SB-125	---	---	---	5,116E-01	1,273E+00
17	I-129	---	---	---	3,941E+00	1,013E+01
18	CS-134	---	---	---	1,773E-01	4,509E-01
19	CS-137	---	---	---	2,065E-01	5,203E-01
20	CE-139	---	---	---	1,235E-01	3,023E-01
21	CE-144	---	---	---	9,836E-01	2,373E+00
22	EU-152	---	---	---	4,682E-01	1,172E+00
23	EU-154	---	---	---	1,208E+00	3,015E+00
24	HG-203	---	---	---	1,616E-01	3,944E-01
25	TL-208	---	---	---	2,260E-01	5,670E-01
26	PB-210	---	---	---	4,210E+00	1,051E+01
27	PB-212	---	---	---	3,068E-01	7,422E-01
28	PB-214	---	---	---	3,822E-01	9,437E-01
29	BI-212	---	---	---	2,953E+00	7,434E+00
30	BI-214	---	---	---	5,021E-01	1,239E+00
31	RA-223	---	---	---	3,299E+00	8,117E+00
32	RA-226	---	---	---	2,667E+00	6,546E+00
33	AC-228	---	---	---	9,447E-01	2,363E+00
34	TH-227	---	---	---	9,100E-01	2,368E+00
35	TH-230	---	---	---	3,634E+01	9,134E+01
36	TH-234	---	---	---	3,524E+00	9,399E+00
37	PA-234M	---	---	---	2,814E+01	7,109E+01
38	U-235	---	---	---	9,339E-01	2,263E+00
39	AM-241	---	---	---	3,771E-01	9,189E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 103

Auswertung des Gammaskopimetrischen: T2108067

Bezugsdatum:	12.08.2021 07:40:00	Detektor:	GMX4
Messdatum:	12.08.2021 12:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	16500 Sekunden	Messzeit: (real)	3600.53 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.564 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.08.2021 13:21:58	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210812/01 PW2026 21/1481	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Original Bq	Gamma %	Gamma [cpd]	BKG [cpd]	NWC [cpd]
1	BE-7	---	---	---	1,264E+00	3,201E+00
2	K-40	3,290E+02	20,7	6,817E+01	2,193E+01	5,030E+01
3	MN-54	---	---	---	2,313E-01	5,771E-01
4	CO-57	---	---	---	1,350E-01	3,241E-01
5	CO-60	---	---	---	2,711E-01	6,981E-01
6	ZN-65	---	---	---	6,639E-01	1,635E+00
7	SE-75	---	---	---	2,518E-01	6,157E-01
8	SR-85	---	---	---	1,328E-01	3,387E-01
9	Y-88	---	---	---	1,470E-01	4,420E-01
10	NB-94	---	---	---	2,072E-01	5,245E-01
11	RU-106	---	---	---	1,953E+00	4,914E+00
12	AG-108M	---	---	---	2,151E-01	5,544E-01
13	AG-110M	---	---	---	2,191E-01	5,556E-01
14	CD-109	---	---	---	3,188E+00	7,674E+00
15	SN-113	---	---	---	2,124E-01	5,273E-01
16	SB-125	---	---	---	4,431E-01	1,118E+00
17	I-129	---	---	---	3,506E+00	9,076E+00
18	CS-134	---	---	---	1,964E-01	4,941E-01
19	CS-137	---	---	---	1,932E-01	4,903E-01
20	CE-139	---	---	---	1,211E-01	2,969E-01
21	CE-144	---	---	---	9,285E-01	2,248E+00
22	EU-152	---	---	---	4,296E-01	1,085E+00
23	EU-154	---	---	---	8,819E-01	2,279E+00
24	HG-203	---	---	---	1,556E-01	3,808E-01
25	TL-208	---	---	---	2,180E-01	5,490E-01
26	PB-210	---	---	---	4,183E+00	1,045E+01
27	PB-212	---	---	---	2,504E-01	6,147E-01
28	PB-214	---	---	---	3,773E-01	9,326E-01
29	BI-212	---	---	---	2,762E+00	7,004E+00
30	BI-214	---	---	---	4,486E-01	1,118E+00
31	RA-223	---	---	---	3,025E+00	7,498E+00
32	RA-226	---	---	---	2,667E+00	6,546E+00
33	AC-228	---	---	---	8,594E-01	2,170E+00
34	TH-227	---	---	---	1,178E+00	3,007E+00
35	TH-230	---	---	---	3,559E+01	8,955E+01
36	TH-234	---	---	---	3,545E+00	9,450E+00
37	PA-234M	---	---	---	2,933E+01	7,379E+01
38	U-235	---	---	---	9,727E-01	2,351E+00
39	AM-241	---	---	---	4,159E-01	1,008E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 104

Auswertung des Gammaskopimetrischen: T2109092

Bezugsdatum:	16.09.2021 08:20:00	Detektor:	GMX2
Messdatum:	16.09.2021 14:35:00	Messzeit: (life)	3600.00 s
Alter der Probe:	22500 Sekunden	Messzeit: (real)	3600.66 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.151 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.09.2021 15:36:43	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20210916/01 PW2040 21/1657	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Wirkung (%)	Fehler (%)	BWG (Bq)	MWG (Bq)
1	BE-7	---	---	---	1,744E+00	4,492E+00
2	K-40	3,096E+02	20,8	6,449E+01	3,724E+00	9,817E+00
3	MN-54	---	---	---	2,939E-01	7,564E-01
4	CO-57	---	---	---	1,546E-01	3,761E-01
5	CO-60	---	---	---	3,769E-01	9,971E-01
6	ZN-65	---	---	---	8,066E-01	2,056E+00
7	SE-75	---	---	---	2,773E-01	6,922E-01
8	SR-85	---	---	---	2,144E-01	5,467E-01
9	Y-88	---	---	---	2,532E-01	7,640E-01
10	NB-94	---	---	---	3,495E-01	8,849E-01
11	RU-106	---	---	---	2,503E+00	6,451E+00
12	AG-108M	---	---	---	3,643E-01	9,305E-01
13	AG-110M	---	---	---	2,603E-01	6,816E-01
14	CD-109	---	---	---	3,952E+00	9,614E+00
15	SN-113	---	---	---	2,092E-01	5,471E-01
16	SB-125	---	---	---	5,520E-01	1,429E+00
17	I-129	---	---	---	3,887E+00	1,045E+01
18	CS-134	---	---	---	3,319E-01	8,284E-01
19	CS-137	---	---	---	3,676E-01	9,194E-01
20	CE-139	---	---	---	1,835E-01	4,472E-01
21	CE-144	---	---	---	1,097E+00	2,690E+00
22	EU-152	---	---	---	7,645E-01	1,897E+00
23	EU-154	---	---	---	1,575E+00	4,011E+00
24	HG-203	---	---	---	2,205E-01	5,421E-01
25	TL-208	---	---	---	3,154E-01	8,000E-01
26	PB-210	---	---	---	5,594E+00	1,428E+01
27	PB-212	---	---	---	4,067E-01	9,915E-01
28	PB-214	---	---	---	7,017E-01	1,709E+00
29	BI-212	---	---	---	4,290E+00	1,096E+01
30	BI-214	---	---	---	7,240E-01	1,803E+00
31	RA-226	---	---	---	4,975E+00	1,200E+01
32	AC-228	---	---	---	1,279E+00	3,276E+00
33	TH-227	---	---	---	1,397E+00	3,612E+00
34	TH-230	---	---	---	4,179E+01	1,071E+02
35	TH-234	---	---	---	5,084E+00	1,369E+01
36	PA-234M	---	---	---	5,636E+01	1,402E+02
37	U-235	---	---	---	1,128E+00	2,765E+00
38	AM-241	---	---	---	4,657E-01	1,156E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 105

Auswertung des Gammaskopimetrischen: T2110090

Bezugsdatum:	14.10.2021 08:05:00	Detektor:	GMX4
Messdatum:	14.10.2021 15:35:00	Messzeit: (life)	7200.00 s
Alter der Probe:	27000 Sekunden	Messzeit: (real)	7201.17 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	5.278 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	14.10.2021 17:59:03	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20211014/01 PW2055 21/1815	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

M	Isotop	Amplitude (cps)	Effizienz (%)	Gamma (cps)	EWG (keV)	NWG (cps)
1	BE-7	---	---	---	1,121E+00	2,704E+00
2	K-40	3,722E+02	20,6	7,674E+01	1,256E+00	3,237E+00
3	MN-54	---	---	---	1,583E-01	3,846E-01
4	CO-57	---	---	---	8,576E-02	2,034E-01
5	CO-60	---	---	---	2,371E-01	5,784E-01
6	ZN-65	---	---	---	4,551E-01	1,095E+00
7	SE-75	---	---	---	1,718E-01	4,120E-01
8	SR-85	---	---	---	1,230E-01	2,971E-01
9	Y-88	---	---	---	7,356E-02	2,212E-01
10	NB-94	---	---	---	1,701E-01	4,121E-01
11	RU-106	---	---	---	1,369E+00	3,343E+00
12	AG-108M	---	---	---	1,629E-01	4,024E-01
13	AG-110M	---	---	---	1,550E-01	3,806E-01
14	CD-109	---	---	---	2,384E+00	5,631E+00
15	SN-113	---	---	---	1,665E-01	3,997E-01
16	SB-125	---	---	---	3,493E-01	8,473E-01
17	I-129	---	---	---	2,993E+00	7,551E+00
18	CS-134	---	---	---	1,538E-01	3,729E-01
19	CS-137	---	---	---	1,534E-01	3,732E-01
20	CE-139	---	---	---	9,657E-02	2,300E-01
21	CE-144	---	---	---	6,825E-01	1,618E+00
22	EU-152	---	---	---	3,745E-01	9,031E-01
23	EU-154	---	---	---	7,229E-01	1,777E+00
24	HG-203	---	---	---	1,271E-01	3,017E-01
25	TL-208	2,290E-01	39,1	8,945E-02	1,475E-01	3,616E-01
26	PB-210	---	---	---	3,214E+00	7,862E+00
27	PB-212	5,334E-01	30,8	1,645E-01	1,951E-01	4,652E-01
28	PB-214	---	---	---	3,045E-01	7,277E-01
29	BI-212	---	---	---	1,858E+00	4,577E+00
30	BI-214	---	---	---	3,644E-01	8,754E-01
31	RA-223	---	---	---	2,385E+00	5,719E+00
32	RA-226	---	---	---	2,197E+00	5,225E+00
33	AC-228	---	---	---	7,233E-01	1,748E+00
34	TH-227	---	---	---	7,567E-01	1,904E+00
35	TH-230	---	---	---	2,814E+01	6,939E+01
36	TH-234	---	---	---	3,022E+00	7,871E+00
37	PA-234M	---	---	---	2,272E+01	5,507E+01
38	U-235	---	---	---	7,171E-01	1,698E+00
39	AM-241	---	---	---	3,179E-01	7,566E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 106

Auswertung des Gammaskopimetrischen: T2111120

Bezugsdatum:	18.11.2021 08:10:00	Detektor:	GMX2
Messdatum:	18.11.2021 14:30:00	Messzeit: (life)	5400.00 s
Alter der Probe:	22800 Sekunden	Messzeit: (real)	5401.05 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.595 cps
Ausbeutekurve:	RS2_REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	18.11.2021 16:05:19	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L725006/20211118/01 PW2070 21/1989	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Anteil (%)	Energie keV	BKZ Bq/l	NWG µSv/h
1	BE-7	---	---	---	1,818E+00	4,473E+00
2	K-40	3,903E+02	20,7	8,063E+01	3,307E+00	8,405E+00
3	MN-54	---	---	---	2,771E-01	6,873E-01
4	CO-57	---	---	---	1,184E-01	2,855E-01
5	CO-60	---	---	---	3,627E-01	9,161E-01
6	ZN-65	---	---	---	7,314E-01	1,807E+00
7	SE-75	---	---	---	2,810E-01	6,791E-01
8	SR-85	---	---	---	2,449E-01	5,944E-01
9	Y-88	---	---	---	1,688E-01	5,094E-01
10	NB-94	---	---	---	2,853E-01	7,079E-01
11	RU-106	---	---	---	2,429E+00	6,018E+00
12	AG-108M	---	---	---	2,975E-01	7,439E-01
13	AG-110M	---	---	---	2,406E-01	6,062E-01
14	CD-109	---	---	---	3,171E+00	7,636E+00
15	SN-113	---	---	---	2,536E-01	6,223E-01
16	SB-125	---	---	---	6,583E-01	1,608E+00
17	I-129	---	---	---	3,097E+00	8,236E+00
18	CS-134	---	---	---	2,672E-01	6,559E-01
19	CS-137	---	---	---	2,791E-01	6,895E-01
20	CE-139	---	---	---	1,365E-01	3,304E-01
21	CE-144	---	---	---	1,088E+00	2,603E+00
22	EU-152	---	---	---	5,969E-01	1,462E+00
23	EU-154	---	---	---	1,286E+00	3,207E+00
24	HG-203	---	---	---	1,757E-01	4,262E-01
25	TL-208	---	---	---	2,906E-01	7,147E-01
26	PB-210	---	---	---	4,885E+00	1,230E+01
27	PB-212	---	---	---	3,607E-01	8,635E-01
28	PB-214	---	---	---	4,899E-01	1,189E+00
29	BI-212	---	---	---	3,147E+00	7,951E+00
30	BI-214	---	---	---	5,639E-01	1,385E+00
31	RA-226	---	---	---	3,907E+00	9,337E+00
32	AC-228	---	---	---	1,351E+00	3,308E+00
33	TH-227	---	---	---	1,202E+00	3,055E+00
34	TH-230	---	---	---	3,478E+01	8,808E+01
35	TH-234	---	---	---	4,049E+00	1,081E+01
36	PA-234M	---	---	---	4,316E+01	1,061E+02
37	U-235	---	---	---	1,004E+00	2,416E+00
38	AM-241	---	---	---	3,801E-01	9,331E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 107

Auswertung des Gammaskopimetrischen: T2112088

Bezugsdatum:	16.12.2021 08:00:00	Detektor:	GMX6
Messdatum:	16.12.2021 17:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	32400 Sekunden	Messzeit: (real)	3600.98 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	4.556 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2110T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	16.12.2021 18:09:59	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L725006/20211216/01 PW2084 21/2150	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Fehler [%]	Fehler [Bq]	ERG [d/l]	MWG [Bq/l]
1	BE-7	---	---	---	1,138E+00	2,899E+00
2	K-40	3,229E+02	20,7	6,690E+01	1,786E+00	4,774E+00
3	MN-54	---	---	---	1,900E-01	4,806E-01
4	CO-57	---	---	---	1,037E-01	2,524E-01
5	CO-60	---	---	---	2,326E-01	6,051E-01
6	ZN-65	---	---	---	5,641E-01	1,400E+00
7	SE-75	---	---	---	2,268E-01	5,582E-01
8	SR-85	---	---	---	1,524E-01	3,809E-01
9	Y-88	---	---	---	1,335E-01	4,033E-01
10	NB-94	---	---	---	1,698E-01	4,367E-01
11	RU-106	---	---	---	1,661E+00	4,227E+00
12	AG-108M	---	---	---	1,674E-01	4,434E-01
13	AG-110M	---	---	---	1,822E-01	4,693E-01
14	CD-109	---	---	---	2,320E+00	5,691E+00
15	SN-113	---	---	---	1,593E-01	4,055E-01
16	SB-125	---	---	---	4,012E-01	1,017E+00
17	I-129	---	---	---	3,317E+00	8,836E+00
18	CS-134	---	---	---	1,580E-01	4,048E-01
19	CS-137	---	---	---	1,514E-01	3,932E-01
20	CE-139	---	---	---	1,240E-01	3,027E-01
21	CE-144	---	---	---	7,114E-01	1,751E+00
22	EU-152	---	---	---	4,799E-01	1,194E+00
23	EU-154	---	---	---	7,057E-01	1,866E+00
24	HG-203	---	---	---	1,305E-01	3,234E-01
25	TL-208	---	---	---	1,807E-01	4,618E-01
26	PB-210	---	---	---	3,812E+00	9,773E+00
27	PB-212	---	---	---	2,810E-01	6,827E-01
28	PB-214	---	---	---	3,427E-01	8,515E-01
29	BI-212	---	---	---	2,843E+00	7,144E+00
30	BI-214	---	---	---	3,361E-01	8,591E-01
31	RA-223	---	---	---	2,837E+00	7,051E+00
32	RA-226	---	---	---	2,651E+00	6,499E+00
33	AC-228	---	---	---	7,482E-01	1,906E+00
34	TH-227	---	---	---	1,010E+00	2,603E+00
35	TH-230	---	---	---	3,256E+01	8,265E+01
36	TH-234	---	---	---	3,683E+00	9,856E+00
37	PA-234M	---	---	---	2,946E+01	7,357E+01
38	U-235	---	---	---	9,134E-01	2,212E+00
39	AM-241	---	---	---	3,633E-01	8,944E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 108

6 Messergebnisse Laugenmessstelle P725007

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 109

Auswertung des Gammaskpektrums: T2101071

Bezugsdatum:	14.01.2021 07:30:00	Detektor:	GMX2
Messdatum:	14.01.2021 17:05:00	Messzeit: (life)	2800.00 s
Alter der Probe:	34500 Sekunden	Messzeit: (real)	2800.62 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.393 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	14.01.2021 17:54:14	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210114/01 PW1880 21/0060	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Anniviat Eq/l	Faktor (%)	Anniviat Eq/l	EKT Eq/l	NWE Eq/l
1	BE-7	---	---	---	2,425E+00	6,189E+00
2	K-40	4,828E+02	20,8	1,003E+02	4,306E+00	1,154E+01
3	MN-54	---	---	---	4,098E-01	1,045E+00
4	CO-57	---	---	---	1,844E-01	4,510E-01
5	CO-60	---	---	---	5,415E-01	1,410E+00
6	ZN-65	---	---	---	1,270E+00	3,168E+00
7	SE-75	---	---	---	4,188E-01	1,031E+00
8	SR-85	---	---	---	2,886E-01	7,323E-01
9	Y-88	---	---	---	3,259E-01	9,832E-01
10	NB-94	---	---	---	4,388E-01	1,114E+00
11	RU-106	---	---	---	3,902E+00	9,839E+00
12	AG-108M	---	---	---	4,787E-01	1,220E+00
13	AG-110M	---	---	---	3,842E-01	9,885E-01
14	CD-109	---	---	---	4,974E+00	1,212E+01
15	SN-113	---	---	---	3,635E-01	9,168E-01
16	SB-125	---	---	---	8,192E-01	2,084E+00
17	I-129	---	---	---	5,227E+00	1,402E+01
18	CS-134	---	---	---	3,653E-01	9,264E-01
19	CS-137	1,589E+00	29,8	4,742E-01	4,268E-01	1,079E+00
20	CE-139	---	---	---	2,136E-01	5,245E-01
21	CE-144	---	---	---	1,398E+00	3,431E+00
22	EU-152	---	---	---	1,002E+00	2,482E+00
23	EU-154	---	---	---	2,024E+00	5,154E+00
24	HG-203	---	---	---	2,578E-01	6,392E-01
25	TL-208	---	---	---	4,531E-01	1,136E+00
26	PB-210	---	---	---	6,677E+00	1,713E+01
27	PB-212	---	---	---	5,563E-01	1,350E+00
28	PB-214	---	---	---	7,146E-01	1,774E+00
29	BI-212	---	---	---	6,081E+00	1,536E+01
30	BI-214	---	---	---	8,877E-01	2,221E+00
31	RA-226	---	---	---	5,464E+00	1,332E+01
32	AC-228	---	---	---	1,838E+00	4,649E+00
33	TH-227	---	---	---	1,795E+00	4,642E+00
34	TH-230	---	---	---	5,690E+01	1,454E+02
35	TH-234	---	---	---	6,397E+00	1,724E+01
36	PA-234M	---	---	---	6,712E+01	1,682E+02
37	U-235	---	---	---	1,449E+00	3,552E+00
38	AM-241	---	---	---	6,384E-01	1,579E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 110

Auswertung des Gammaskopimetrischen: T2102100

Bezugsdatum:	18.02.2021 08:00:00	Detektor:	GMX2
Messdatum:	22.02.2021 09:00:00	Messzeit: (life)	4400.00 s
Alter der Probe:	4.04 Tage	Messzeit: (real)	4401.00 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.558 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	22.02.2021 10:15:16	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210218/01 PW1893 21/0217	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq/l]	Anteil [%]	Fehler [Bq/l]	IRK [Bq/l]	NWEG [Bq/l]
1	BE-7	---	---	---	2,089E+00	5,192E+00
2	K-40	4,924E+02	20,7	1,017E+02	3,068E+00	8,081E+00
3	MN-54	---	---	---	3,273E-01	8,153E-01
4	CO-57	---	---	---	1,541E-01	3,708E-01
5	CO-60	---	---	---	4,082E-01	1,041E+00
6	ZN-65	---	---	---	8,820E-01	2,185E+00
7	SE-75	---	---	---	3,192E-01	7,766E-01
8	SR-85	---	---	---	2,683E-01	6,591E-01
9	Y-88	---	---	---	2,123E-01	6,407E-01
10	NB-94	---	---	---	3,392E-01	8,441E-01
11	RU-106	---	---	---	2,180E+00	5,579E+00
12	AG-108M	---	---	---	3,758E-01	9,373E-01
13	AG-110M	---	---	---	3,261E-01	8,144E-01
14	CD-109	---	---	---	3,980E+00	9,575E+00
15	SN-113	---	---	---	3,292E-01	8,055E-01
16	SB-125	---	---	---	7,391E-01	1,818E+00
17	I-129	---	---	---	4,219E+00	1,116E+01
18	CS-134	---	---	---	3,152E-01	7,766E-01
19	CS-137	1,468E+00	26,6	3,902E-01	3,006E-01	7,518E-01
20	CE-139	---	---	---	1,615E-01	3,921E-01
21	CE-144	---	---	---	1,169E+00	2,819E+00
22	EU-152	---	---	---	7,526E-01	1,839E+00
23	EU-154	---	---	---	1,626E+00	4,043E+00
24	HG-203	---	---	---	2,277E-01	5,525E-01
25	TL-208	---	---	---	3,143E-01	7,815E-01
26	PB-210	---	---	---	5,279E+00	1,337E+01
27	PB-212	---	---	---	4,256E-01	1,021E+00
28	PB-214	---	---	---	5,978E-01	1,452E+00
29	BI-212	---	---	---	4,771E+00	1,181E+01
30	BI-214	---	---	---	7,196E-01	1,762E+00
31	RA-226	---	---	---	4,599E+00	1,101E+01
32	AC-228	---	---	---	1,446E+00	3,583E+00
33	TH-227	---	---	---	1,373E+00	3,504E+00
34	TH-230	---	---	---	4,477E+01	1,131E+02
35	TH-234	---	---	---	4,701E+00	1,258E+01
36	PA-234M	---	---	---	4,780E+01	1,185E+02
37	U-235	---	---	---	1,299E+00	3,116E+00
38	AM-241	---	---	---	4,905E-01	1,201E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 111

Auswertung des Gammaskopimetrischen: T2103115

Bezugsdatum:	18.03.2021 08:10:00	Detektor:	GMX2
Messdatum:	18.03.2021 14:30:00	Messzeit: (life)	5400.00 s
Alter der Probe:	22800 Sekunden	Messzeit: (real)	5401.18 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.267 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	18.03.2021 17:04:51	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210318/01 PW1910 21/0370	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Fehler (%)	Faktor	FKG (s)	NWG (Bq)
1	BE-7	---	---	---	---	1,711E+00
2	K-40	4,705E+02	20,6	9,702E+01	---	3,518E+00
3	MN-54	---	---	---	---	2,729E-01
4	CO-57	---	---	---	---	1,290E-01
5	CO-60	---	---	---	---	4,164E-01
6	ZN-65	---	---	---	---	7,695E-01
7	SE-75	---	---	---	---	2,724E-01
8	SR-85	---	---	---	---	2,159E-01
9	Y-88	---	---	---	---	3,066E-01
10	NB-94	---	---	---	---	2,627E-01
11	RU-106	---	---	---	---	2,225E+00
12	AG-108M	---	---	---	---	2,787E-01
13	AG-110M	---	---	---	---	2,785E-01
14	CD-109	---	---	---	---	3,562E+00
15	SN-113	---	---	---	---	2,379E-01
16	SB-125	---	---	---	---	5,288E-01
17	I-129	---	---	---	---	3,735E+00
18	CS-134	---	---	---	---	2,454E-01
19	CS-137	1,736E+00	24,8	4,306E-01	---	2,926E-01
20	CE-139	---	---	---	---	1,573E-01
21	CE-144	---	---	---	---	1,039E+00
22	EU-152	---	---	---	---	6,032E-01
23	EU-154	---	---	---	---	1,246E+00
24	HG-203	---	---	---	---	1,985E-01
25	TL-208	---	---	---	---	3,323E-01
26	PB-210	---	---	---	---	5,099E+00
27	PB-212	---	---	---	---	3,974E-01
28	PB-214	---	---	---	---	5,244E-01
29	BI-212	---	---	---	---	4,135E+00
30	BI-214	---	---	---	---	5,430E-01
31	RA-226	---	---	---	---	4,465E+00
32	AC-228	---	---	---	---	1,348E+00
33	TH-227	---	---	---	---	1,207E+00
34	TH-230	---	---	---	---	3,900E+01
35	TH-234	---	---	---	---	4,360E+00
36	PA-234M	---	---	---	---	4,092E+01
37	U-235	---	---	---	---	1,171E+00
38	AM-241	---	---	---	---	4,077E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 112

Auswertung des Gammaskopimetrischen: T2104067

Bezugsdatum:	15.04.2021 08:00:00	Detektor:	GMX4
Messdatum:	16.04.2021 14:20:00	Messzeit: (life)	3000.00 s
Alter der Probe:	1.26 Tage	Messzeit: (real)	3000.56 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.301 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.04.2021 15:22:21	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210415/01 PW1925 21/0524	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq/l]	Fenster [keV]	Faktor [1/l]	ERG [Bq/l]	NWZ [Bq/l]
1	BE-7	---	---	---	1,501E+00	3,812E+00
2	K-40	4,914E+02	20,7	1,017E+02	2,827E+00	7,347E+00
3	MN-54	---	---	---	2,871E-01	7,141E-01
4	CO-57	---	---	---	1,519E-01	3,661E-01
5	CO-60	---	---	---	3,530E-01	9,003E-01
6	ZN-65	---	---	---	6,976E-01	1,738E+00
7	SE-75	---	---	---	2,470E-01	6,141E-01
8	SR-85	---	---	---	1,844E-01	4,636E-01
9	Y-88	---	---	---	1,738E-01	5,255E-01
10	NB-94	---	---	---	2,644E-01	6,648E-01
11	RU-106	---	---	---	2,071E+00	5,281E+00
12	AG-108M	---	---	---	3,067E-01	7,752E-01
13	AG-110M	---	---	---	2,436E-01	6,233E-01
14	CD-109	---	---	---	4,066E+00	9,756E+00
15	SN-113	---	---	---	2,566E-01	6,369E-01
16	SB-125	---	---	---	5,949E-01	1,484E+00
17	I-129	---	---	---	4,933E+00	1,265E+01
18	CS-134	---	---	---	2,191E-01	5,555E-01
19	CS-137	1,377E+00	26,8	3,689E-01	2,531E-01	6,364E-01
20	CE-139	---	---	---	1,729E-01	4,188E-01
21	CE-144	---	---	---	1,299E+00	3,116E+00
22	EU-152	---	---	---	6,994E-01	1,717E+00
23	EU-154	---	---	---	1,241E+00	3,148E+00
24	HG-203	---	---	---	1,982E-01	4,834E-01
25	TL-208	---	---	---	2,617E-01	6,588E-01
26	PB-210	---	---	---	5,933E+00	1,469E+01
27	PB-212	---	---	---	3,736E-01	9,027E-01
28	PB-214	---	---	---	5,642E-01	1,370E+00
29	BI-212	---	---	---	3,235E+00	8,225E+00
30	BI-214	---	---	---	4,994E-01	1,254E+00
31	RA-223	---	---	---	4,346E+00	1,061E+01
32	RA-226	---	---	---	4,120E+00	9,935E+00
33	AC-228	---	---	---	1,073E+00	2,700E+00
34	TH-227	---	---	---	1,269E+00	3,264E+00
35	TH-230	---	---	---	4,355E+01	1,095E+02
36	TH-234	---	---	---	4,890E+00	1,294E+01
37	PA-234M	---	---	---	3,920E+01	9,757E+01
38	U-235	---	---	---	1,208E+00	2,914E+00
39	AM-241	---	---	---	5,897E-01	1,418E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 113

Auswertung des Gammaskopimetrischen: T2105100

Bezugsdatum:	12.05.2021 08:25:00	Detektor:	GMX4
Messdatum:	17.05.2021 08:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	4.99 Tage	Messzeit: (real)	3600.66 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.222 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	17.05.2021 10:32:42	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210512/01 PW1943 21/0699	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq/l)	Effizienz (%)	Effizienz (Bq/l)	EKG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	1,713E+00	4,234E+00
2	K-40	4,679E+02	20,7	9,670E+01	2,278E+00	5,945E+00
3	MN-54	---	---	---	2,589E-01	6,398E-01
4	CO-57	---	---	---	1,324E-01	3,184E-01
5	CO-60	---	---	---	3,227E-01	8,148E-01
6	ZN-65	---	---	---	6,650E-01	1,639E+00
7	SE-75	---	---	---	2,510E-01	6,151E-01
8	SR-85	---	---	---	1,984E-01	4,887E-01
9	Y-88	---	---	---	1,751E-01	5,091E-01
10	NB-94	---	---	---	2,287E-01	5,728E-01
11	RU-106	---	---	---	2,212E+00	5,502E+00
12	AG-108M	---	---	---	2,905E-01	7,250E-01
13	AG-110M	---	---	---	2,374E-01	5,979E-01
14	CD-109	---	---	---	3,563E+00	8,531E+00
15	SN-113	---	---	---	2,187E-01	5,428E-01
16	SB-125	---	---	---	5,810E-01	1,430E+00
17	I-129	---	---	---	4,430E+00	1,132E+01
18	CS-134	---	---	---	2,316E-01	5,740E-01
19	CS-137	1,768E+00	23,8	4,213E-01	2,072E-01	5,220E-01
20	CE-139	---	---	---	1,550E-01	3,741E-01
21	CE-144	---	---	---	1,071E+00	2,572E+00
22	EU-152	---	---	---	6,200E-01	1,515E+00
23	EU-154	---	---	---	1,189E+00	2,972E+00
24	HG-203	---	---	---	1,843E-01	4,477E-01
25	TL-208	---	---	---	2,687E-01	6,635E-01
26	PB-210	---	---	---	5,197E+00	1,283E+01
27	PB-212	---	---	---	2,918E-01	7,083E-01
28	PB-214	---	---	---	4,820E-01	1,169E+00
29	BI-212	---	---	---	3,667E+00	9,043E+00
30	BI-214	---	---	---	4,896E-01	1,211E+00
31	RA-223	---	---	---	3,690E+00	9,000E+00
32	RA-226	---	---	---	3,529E+00	8,495E+00
33	AC-228	---	---	---	8,594E-01	2,170E+00
34	TH-227	---	---	---	1,133E+00	2,900E+00
35	TH-230	---	---	---	3,973E+01	9,941E+01
36	TH-234	---	---	---	4,607E+00	1,213E+01
37	PA-234M	---	---	---	3,471E+01	8,592E+01
38	U-235	---	---	---	1,166E+00	2,789E+00
39	AM-241	---	---	---	4,261E-01	1,032E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 114

Auswertung des Gammaskopimetrischen: T2106303

Bezugsdatum:	24.06.2021 08:15:00	Detektor:	GMX2
Messdatum:	25.06.2021 08:15:00	Messzeit: (life)	5400.00 s
Alter der Probe:	1.00 Tage	Messzeit: (real)	5401.22 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.497 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	25.06.2021 09:56:21	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210624/01 PW1972 21/1063	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AmWBd (cpd)	Effiz. (%)	Effiz. Beff.	E _{eff} [keV]	NWB (cpd)
1	BE-7	---	---	---	1,956E+00	4,787E+00
2	K-40	5,037E+02	20,6	1,038E+02	3,462E+00	8,754E+00
3	MN-54	---	---	---	2,691E-01	6,694E-01
4	CO-57	---	---	---	1,418E-01	3,389E-01
5	CO-60	---	---	---	3,768E-01	9,480E-01
6	ZN-65	---	---	---	8,256E-01	2,020E+00
7	SE-75	---	---	---	3,022E-01	7,274E-01
8	SR-85	---	---	---	2,355E-01	5,735E-01
9	Y-88	---	---	---	1,696E-01	5,119E-01
10	NB-94	---	---	---	3,475E-01	8,480E-01
11	RU-106	---	---	---	2,292E+00	5,709E+00
12	AG-108M	---	---	---	3,105E-01	7,735E-01
13	AG-110M	---	---	---	3,026E-01	7,464E-01
14	CD-109	---	---	---	3,459E+00	8,293E+00
15	SN-113	---	---	---	2,906E-01	7,059E-01
16	SB-125	---	---	---	6,786E-01	1,654E+00
17	I-129	---	---	---	3,604E+00	9,508E+00
18	CS-134	---	---	---	2,618E-01	6,439E-01
19	CS-137	1,215E+00	27,9	3,393E-01	2,869E-01	7,071E-01
20	CE-139	---	---	---	1,571E-01	3,772E-01
21	CE-144	---	---	---	1,045E+00	2,506E+00
22	EU-152	---	---	---	6,005E-01	1,470E+00
23	EU-154	---	---	---	1,285E+00	3,206E+00
24	HG-203	---	---	---	1,935E-01	4,668E-01
25	TL-208	---	---	---	3,126E-01	7,645E-01
26	PB-210	---	---	---	5,464E+00	1,369E+01
27	PB-212	---	---	---	3,904E-01	9,305E-01
28	PB-214	---	---	---	4,311E-01	1,056E+00
29	BI-212	---	---	---	4,131E+00	1,017E+01
30	BI-214	---	---	---	6,052E-01	1,479E+00
31	RA-226	---	---	---	4,442E+00	1,055E+01
32	AC-228	---	---	---	1,238E+00	3,054E+00
33	TH-227	---	---	---	1,233E+00	3,129E+00
34	TH-230	---	---	---	3,902E+01	9,827E+01
35	TH-234	---	---	---	4,509E+00	1,198E+01
36	PA-234M	---	---	---	4,514E+01	1,105E+02
37	U-235	---	---	---	1,158E+00	2,764E+00
38	AM-241	---	---	---	4,382E-01	1,068E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 115

Auswertung des Gammaskopimetrischen: T2107127

Bezugsdatum:	15.07.2021 08:00:00	Detektor:	GMX4
Messdatum:	15.07.2021 16:25:00	Messzeit: (life)	3600.00 s
Alter der Probe:	30300 Sekunden	Messzeit: (real)	3600.70 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.646 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	15.07.2021 17:36:44	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210715/01 PW1997 21/1246	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Wp (%)	Fehler (Bq)	CSB (Bq)	MWZ (Bq)
1	BE-7	---	---	---	1,659E+00	4,091E+00
2	K-40	5,175E+02	20,7	1,069E+02	1,907E+00	5,109E+00
3	MN-54	---	---	---	2,351E-01	5,857E-01
4	CO-57	---	---	---	1,432E-01	3,426E-01
5	CO-60	---	---	---	2,712E-01	6,982E-01
6	ZN-65	---	---	---	6,563E-01	1,617E+00
7	SE-75	---	---	---	2,851E-01	6,913E-01
8	SR-85	---	---	---	1,957E-01	4,807E-01
9	Y-88	---	---	---	1,440E-01	4,353E-01
10	NB-94	---	---	---	2,834E-01	6,960E-01
11	RU-106	---	---	---	2,378E+00	5,874E+00
12	AG-108M	---	---	---	2,997E-01	7,458E-01
13	AG-110M	---	---	---	2,305E-01	5,814E-01
14	CD-109	---	---	---	4,176E+00	9,919E+00
15	SN-113	---	---	---	2,617E-01	6,385E-01
16	SB-125	---	---	---	5,931E-01	1,457E+00
17	I-129	---	---	---	4,090E+00	1,049E+01
18	CS-134	---	---	---	2,126E-01	5,308E-01
19	CS-137	1,881E+00	23,9	4,491E-01	2,275E-01	5,677E-01
20	CE-139	---	---	---	1,328E-01	3,233E-01
21	CE-144	---	---	---	1,169E+00	2,793E+00
22	EU-152	---	---	---	6,314E-01	1,540E+00
23	EU-154	---	---	---	1,247E+00	3,105E+00
24	HG-203	---	---	---	1,649E-01	4,019E-01
25	TL-208	---	---	---	2,374E-01	5,927E-01
26	PB-210	---	---	---	5,470E+00	1,347E+01
27	PB-212	---	---	---	3,669E-01	8,778E-01
28	PB-214	---	---	---	5,194E-01	1,253E+00
29	BI-212	---	---	---	3,566E+00	8,816E+00
30	BI-214	---	---	---	5,190E-01	1,277E+00
31	RA-223	---	---	---	3,788E+00	9,220E+00
32	RA-226	---	---	---	3,766E+00	9,031E+00
33	AC-228	---	---	---	1,067E+00	2,639E+00
34	TH-227	---	---	---	1,388E+00	3,509E+00
35	TH-230	---	---	---	4,038E+01	1,009E+02
36	TH-234	---	---	---	4,220E+00	1,115E+01
37	PA-234M	---	---	---	3,267E+01	8,131E+01
38	U-235	---	---	---	1,217E+00	2,903E+00
39	AM-241	---	---	---	4,701E-01	1,133E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 116

Auswertung des Gammaskopimetrischen: T2108071

Bezugsdatum:	12.08.2021 07:50:00	Detektor:	GMX4
Messdatum:	12.08.2021 15:15:00	Messzeit: (life)	3000.00 s
Alter der Probe:	26700 Sekunden	Messzeit: (real)	3000.58 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.743 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.08.2021 16:10:44	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210812/01 PW2027 21/1484	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Fehler (%)	Fehler (Bq)	ERG (Bq)	MWG (Bq)
1	BE-7	---	---	---	1,590E+00	4,007E+00
2	K-40	5,103E+02	20,7	1,055E+02	1,893E+00	5,237E+00
3	MN-54	---	---	---	2,821E-01	7,027E-01
4	CO-57	---	---	---	1,644E-01	3,943E-01
5	CO-60	---	---	---	3,946E-01	9,941E-01
6	ZN-65	---	---	---	8,250E-01	2,025E+00
7	SE-75	---	---	---	2,993E-01	7,324E-01
8	SR-85	---	---	---	1,780E-01	4,487E-01
9	Y-88	---	---	---	1,727E-01	5,223E-01
10	NB-94	---	---	---	2,593E-01	6,532E-01
11	RU-106	---	---	---	2,211E+00	5,595E+00
12	AG-108M	---	---	---	3,312E-01	8,308E-01
13	AG-110M	---	---	---	2,772E-01	6,991E-01
14	CD-109	---	---	---	4,354E+00	1,041E+01
15	SN-113	---	---	---	2,432E-01	6,064E-01
16	SB-125	---	---	---	5,534E-01	1,390E+00
17	I-129	---	---	---	5,080E+00	1,301E+01
18	CS-134	---	---	---	2,210E-01	5,597E-01
19	CS-137	1,637E+00	24,6	4,027E-01	2,135E-01	5,472E-01
20	CE-139	---	---	---	1,696E-01	4,112E-01
21	CE-144	---	---	---	1,249E+00	3,004E+00
22	EU-152	---	---	---	6,761E-01	1,664E+00
23	EU-154	---	---	---	1,400E+00	3,507E+00
24	HG-203	---	---	---	1,883E-01	4,604E-01
25	TL-208	---	---	---	2,893E-01	7,213E-01
26	PB-210	---	---	---	5,416E+00	1,347E+01
27	PB-212	---	---	---	3,849E-01	9,284E-01
28	PB-214	1,442E+00	27,4	3,953E-01	4,505E-01	1,114E+00
29	BI-212	---	---	---	3,759E+00	9,405E+00
30	BI-214	2,700E+00	25,3	6,835E-01	4,181E-01	1,071E+00
31	RA-223	---	---	---	3,959E+00	9,740E+00
32	RA-226	---	---	---	4,462E+00	1,071E+01
33	AC-228	---	---	---	1,105E+00	2,770E+00
34	TH-227	---	---	---	1,184E+00	3,060E+00
35	TH-230	---	---	---	4,924E+01	1,230E+02
36	TH-234	---	---	---	5,078E+00	1,342E+01
37	PA-234M	---	---	---	4,563E+01	1,121E+02
38	U-235	---	---	---	1,275E+00	3,065E+00
39	AM-241	---	---	---	5,089E-01	1,232E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 117
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2109093

Bezugsdatum:	16.09.2021 08:15:00	Detektor:	GMX4
Messdatum:	16.09.2021 16:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	28800 Sekunden	Messzeit: (real)	3600.69 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.504 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.09.2021 17:16:17	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20210916/01 PW2041 21/1658	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq/l)	Faktor (%)	Faktor (Bq/l)	BWT (Bq/l)	NWT (Bq/l)
1	BE-7	---	---	---	1,588E+00	3,931E+00
2	K-40	5,198E+02	20,6	1,073E+02	2,108E+00	5,563E+00
3	MN-54	---	---	---	2,757E-01	6,771E-01
4	CO-57	---	---	---	1,431E-01	3,424E-01
5	CO-60	---	---	---	2,631E-01	6,799E-01
6	ZN-65	---	---	---	7,697E-01	1,873E+00
7	SE-75	---	---	---	2,760E-01	6,707E-01
8	SR-85	---	---	---	1,909E-01	4,698E-01
9	Y-88	---	---	---	1,471E-01	4,424E-01
10	NB-94	---	---	---	2,664E-01	6,578E-01
11	RU-106	---	---	---	2,060E+00	5,154E+00
12	AG-108M	---	---	---	2,809E-01	7,034E-01
13	AG-110M	---	---	---	2,813E-01	6,964E-01
14	CD-109	---	---	---	3,796E+00	9,057E+00
15	SN-113	---	---	---	1,958E-01	4,900E-01
16	SB-125	---	---	---	6,068E-01	1,487E+00
17	I-129	---	---	---	4,411E+00	1,127E+01
18	CS-134	---	---	---	1,927E-01	4,859E-01
19	CS-137	1,326E+00	28,5	3,776E-01	2,563E-01	6,326E-01
20	CE-139	---	---	---	1,697E-01	4,069E-01
21	CE-144	---	---	---	1,141E+00	2,728E+00
22	EU-152	---	---	---	6,600E-01	1,605E+00
23	EU-154	---	---	---	1,228E+00	3,060E+00
24	HG-203	---	---	---	1,884E-01	4,548E-01
25	TL-208	---	---	---	2,228E-01	5,597E-01
26	PB-210	---	---	---	5,340E+00	1,317E+01
27	PB-212	---	---	---	3,397E-01	8,163E-01
28	PB-214	---	---	---	4,701E-01	1,142E+00
29	BI-212	---	---	---	3,356E+00	8,343E+00
30	BI-214	---	---	---	5,612E-01	1,373E+00
31	RA-223	---	---	---	3,885E+00	9,438E+00
32	RA-226	---	---	---	3,626E+00	8,714E+00
33	AC-228	---	---	---	1,096E+00	2,703E+00
34	TH-227	---	---	---	1,319E+00	3,344E+00
35	TH-230	---	---	---	4,421E+01	1,101E+02
36	TH-234	---	---	---	4,249E+00	1,122E+01
37	PA-234M	---	---	---	3,569E+01	8,812E+01
38	U-235	---	---	---	1,148E+00	2,747E+00
39	AM-241	---	---	---	4,646E-01	1,120E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 118

Auswertung des Gammaskopimetrischen: T2110091

Bezugsdatum:	14.10.2021 07:50:00	Detektor:	GMX6
Messdatum:	14.10.2021 16:00:00	Messzeit: (life)	2700.00 s
Alter der Probe:	29400 Sekunden	Messzeit: (real)	2700.96 s
Probenmasse/Volumen:	1	Totzeit:	0.04 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	6.618 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	14.10.2021 16:49:59	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P725007/20211014/01 PW2056 21/1816	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Effizienz [%]	Fehler [Bq]	BIBI [Bq]	NWI [µCi]
1	BE-7	---	---	---	1,516E+00	3,864E+00
2	K-40	4,873E+02	20,7	1,009E+02	2,185E+00	5,922E+00
3	MN-54	---	---	---	2,362E-01	6,022E-01
4	CO-57	---	---	---	1,382E-01	3,365E-01
5	CO-60	---	---	---	3,315E-01	8,552E-01
6	ZN-65	---	---	---	7,563E-01	1,877E+00
7	SE-75	---	---	---	2,985E-01	7,355E-01
8	SR-85	---	---	---	1,973E-01	4,947E-01
9	Y-88	---	---	---	1,779E-01	5,375E-01
10	NB-94	---	---	---	2,690E-01	6,782E-01
11	RU-106	---	---	---	2,161E+00	5,515E+00
12	AG-108M	---	---	---	3,366E-01	8,478E-01
13	AG-110M	---	---	---	2,361E-01	6,103E-01
14	CD-109	---	---	---	3,841E+00	9,288E+00
15	SN-113	---	---	---	2,672E-01	6,642E-01
16	SB-125	---	---	---	5,836E-01	1,466E+00
17	I-129	---	---	---	4,706E+00	1,248E+01
18	CS-134	---	---	---	2,655E-01	6,637E-01
19	CS-137	1,574E+00	25,5	4,017E-01	2,528E-01	6,391E-01
20	CE-139	---	---	---	1,705E-01	4,153E-01
21	CE-144	---	---	---	1,075E+00	2,622E+00
22	EU-152	---	---	---	5,257E-01	1,335E+00
23	EU-154	---	---	---	1,419E+00	3,568E+00
24	HG-203	---	---	---	1,969E-01	4,828E-01
25	TL-208	---	---	---	2,851E-01	7,155E-01
26	PB-210	---	---	---	6,216E+00	1,572E+01
27	PB-212	---	---	---	3,458E-01	8,452E-01
28	PB-214	---	---	---	5,268E-01	1,293E+00
29	BI-212	---	---	---	4,021E+00	1,004E+01
30	BI-214	---	---	---	4,792E-01	1,216E+00
31	RA-223	---	---	---	3,779E+00	9,391E+00
32	RA-226	---	---	---	2,891E+00	7,213E+00
33	AC-228	---	---	---	9,198E-01	2,365E+00
34	TH-227	---	---	---	1,208E+00	3,140E+00
35	TH-230	---	---	---	4,260E+01	1,083E+02
36	TH-234	---	---	---	4,355E+00	1,174E+01
37	PA-234M	---	---	---	3,785E+01	9,487E+01
38	U-235	---	---	---	1,115E+00	2,717E+00
39	AM-241	---	---	---	4,809E-01	1,184E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 119

Auswertung des Gammaskopimetrischen: T2111129

Bezugsdatum:	18.11.2021 08:00:00	Detektor:	GMX2
Messdatum:	19.11.2021 09:00:00	Messzeit: (life)	4500.00 s
Alter der Probe:	1.04 Tage	Messzeit: (real)	4500.99 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.326 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.11.2021 10:27:56	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20211118/01 PW2071 21/1991	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität [Bq/l]	Lebensdauer [a]	Lebensdauer [a]	ERG [Bq/l]	WW [Bq/l]
1	BE-7	---	---	---	2,048E+00	5,071E+00
2	K-40	4,968E+02	20,6	1,025E+02	3,323E+00	8,628E+00
3	MN-54	---	---	---	3,023E-01	7,567E-01
4	CO-57	---	---	---	1,385E-01	3,347E-01
5	CO-60	---	---	---	3,894E-01	9,960E-01
6	ZN-65	---	---	---	9,592E-01	2,353E+00
7	SE-75	---	---	---	3,018E-01	7,351E-01
8	SR-85	---	---	---	2,318E-01	5,738E-01
9	Y-88	---	---	---	2,036E-01	6,144E-01
10	NB-94	---	---	---	3,372E-01	8,377E-01
11	RU-106	---	---	---	2,794E+00	6,952E+00
12	AG-108M	---	---	---	3,515E-01	8,804E-01
13	AG-110M	---	---	---	3,347E-01	8,314E-01
14	CD-109	---	---	---	3,623E+00	8,747E+00
15	SN-113	---	---	---	2,912E-01	7,174E-01
16	SB-125	---	---	---	5,471E-01	1,381E+00
17	I-129	---	---	---	4,109E+00	1,087E+01
18	CS-134	---	---	---	2,661E-01	6,641E-01
19	CS-137	1,745E+00	27,3	4,761E-01	2,919E-01	7,305E-01
20	CE-139	---	---	---	1,612E-01	3,906E-01
21	CE-144	---	---	---	1,188E+00	2,858E+00
22	EU-152	---	---	---	7,156E-01	1,753E+00
23	EU-154	---	---	---	1,520E+00	3,795E+00
24	HG-203	---	---	---	2,205E-01	5,338E-01
25	TL-208	---	---	---	3,291E-01	8,134E-01
26	PB-210	---	---	---	5,507E+00	1,391E+01
27	PB-212	---	---	---	4,115E-01	9,880E-01
28	PB-214	---	---	---	5,894E-01	1,430E+00
29	BI-212	---	---	---	4,771E+00	1,178E+01
30	BI-214	---	---	---	6,750E-01	1,659E+00
31	RA-226	---	---	---	3,990E+00	9,622E+00
32	AC-228	---	---	---	1,311E+00	3,271E+00
33	TH-227	---	---	---	1,394E+00	3,549E+00
34	TH-230	---	---	---	4,219E+01	1,068E+02
35	TH-234	---	---	---	4,867E+00	1,299E+01
36	PA-234M	---	---	---	4,605E+01	1,143E+02
37	U-235	---	---	---	1,198E+00	2,882E+00
38	AM-241	---	---	---	4,819E-01	1,180E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 120

Auswertung des Gammaskopimetrischen: T2112097

Bezugsdatum:	16.12.2021 07:55:00	Detektor:	GMX4
Messdatum:	17.12.2021 08:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	1.02 Tage	Messzeit: (real)	3600.66 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	6.378 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	17.12.2021 09:32:06	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725007/20211216/01 PW2085 21/2153	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Effiz. [%]	Effiz. [Bq]	IBK [Bq]	MW [Bq]
1	BE-7	---	---	---	1,673E+00	4,127E+00
2	K-40	4,981E+02	20,7	1,029E+02	2,006E+00	5,332E+00
3	MN-54	---	---	---	1,952E-01	4,958E-01
4	CO-57	---	---	---	1,373E-01	3,293E-01
5	CO-60	---	---	---	3,155E-01	7,983E-01
6	ZN-65	---	---	---	7,434E-01	1,814E+00
7	SE-75	---	---	---	2,580E-01	6,300E-01
8	SR-85	---	---	---	2,111E-01	5,155E-01
9	Y-88	---	---	---	1,446E-01	4,372E-01
10	NB-94	---	---	---	2,767E-01	6,810E-01
11	RU-106	---	---	---	2,411E+00	5,949E+00
12	AG-108M	---	---	---	2,711E-01	6,811E-01
13	AG-110M	---	---	---	2,584E-01	6,448E-01
14	CD-109	---	---	---	3,595E+00	8,600E+00
15	SN-113	---	---	---	2,465E-01	6,044E-01
16	SB-125	---	---	---	5,595E-01	1,381E+00
17	I-129	---	---	---	4,173E+00	1,070E+01
18	CS-134	---	---	---	2,269E-01	5,632E-01
19	CS-137	1,420E+00	26,1	3,700E-01	2,655E-01	6,534E-01
20	CE-139	---	---	---	1,703E-01	4,083E-01
21	CE-144	---	---	---	1,073E+00	2,577E+00
22	EU-152	---	---	---	6,601E-01	1,605E+00
23	EU-154	---	---	---	1,167E+00	2,923E+00
24	HG-203	---	---	---	1,812E-01	4,388E-01
25	TL-208	---	---	---	2,541E-01	6,306E-01
26	PB-210	---	---	---	5,013E+00	1,240E+01
27	PB-212	---	---	---	3,121E-01	7,540E-01
28	PB-214	---	---	---	4,571E-01	1,113E+00
29	BI-212	---	---	---	3,907E+00	9,584E+00
30	BI-214	---	---	---	5,943E-01	1,447E+00
31	RA-223	---	---	---	3,616E+00	8,832E+00
32	RA-226	---	---	---	3,538E+00	8,516E+00
33	AC-228	---	---	---	1,023E+00	2,539E+00
34	TH-227	---	---	---	1,221E+00	3,110E+00
35	TH-230	---	---	---	4,732E+01	1,175E+02
36	TH-234	---	---	---	4,448E+00	1,172E+01
37	PA-234M	---	---	---	3,159E+01	7,889E+01
38	U-235	---	---	---	1,054E+00	2,536E+00
39	AM-241	---	---	---	4,682E-01	1,128E+00

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 121

7 Messergebnisse Laugenmessstelle P725010

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 122

Auswertung des Gammaskopimetrischen: T2101069

Bezugsdatum:	14.01.2021 07:10:00	Detektor:	GMX4
Messdatum:	14.01.2021 16:45:00	Messzeit: (life)	2700.00 s
Alter der Probe:	34500 Sekunden	Messzeit: (real)	2700.45 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	5.484 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	14.01.2021 17:35:03	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210114/01 PW1879 21/0058	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AMTODI [dgt]	Faktor [1/g]	Faktor [dgt]	EFF [dgt]	NWZ [dgt]
1	BE-7	---	---	---	1,808E+00	4,546E+00
2	K-40	3,750E+02	20,8	7,786E+01	2,526E+00	6,774E+00
3	MN-54	---	---	---	2,542E-01	6,471E-01
4	CO-57	---	---	---	1,416E-01	3,453E-01
5	CO-60	---	---	---	3,398E-01	8,819E-01
6	ZN-65	---	---	---	7,402E-01	1,853E+00
7	SE-75	---	---	---	3,082E-01	7,587E-01
8	SR-85	---	---	---	1,583E-01	4,095E-01
9	Y-88	---	---	---	1,920E-01	5,806E-01
10	NB-94	---	---	---	2,940E-01	7,391E-01
11	RU-106	---	---	---	2,354E+00	5,984E+00
12	AG-108M	---	---	---	3,113E-01	7,945E-01
13	AG-110M	---	---	---	2,727E-01	6,970E-01
14	CD-109	---	---	---	4,094E+00	9,879E+00
15	SN-113	---	---	---	2,369E-01	5,987E-01
16	SB-125	---	---	---	6,719E-01	1,674E+00
17	I-129	---	---	---	4,709E+00	1,219E+01
18	CS-134	---	---	---	2,609E-01	6,567E-01
19	CS-137	---	---	---	2,515E-01	6,401E-01
20	CE-139	---	---	---	1,757E-01	4,281E-01
21	CE-144	---	---	---	1,284E+00	3,101E+00
22	EU-152	---	---	---	5,914E-01	1,488E+00
23	EU-154	---	---	---	1,348E+00	3,428E+00
24	HG-203	---	---	---	2,168E-01	5,289E-01
25	TL-208	---	---	---	3,167E-01	7,908E-01
26	PB-210	---	---	---	5,529E+00	1,382E+01
27	PB-212	---	---	---	3,656E-01	8,913E-01
28	PB-214	---	---	---	4,681E-01	1,164E+00
29	BI-212	---	---	---	3,412E+00	8,728E+00
30	BI-214	---	---	---	5,878E-01	1,468E+00
31	RA-223	---	---	---	4,091E+00	1,013E+01
32	RA-226	---	---	---	3,811E+00	9,304E+00
33	AC-228	---	---	---	9,931E-01	2,549E+00
34	TH-227	---	---	---	1,268E+00	3,288E+00
35	TH-230	---	---	---	5,096E+01	1,278E+02
36	TH-234	---	---	---	4,968E+00	1,321E+01
37	PA-234M	---	---	---	3,587E+01	9,108E+01
38	U-235	---	---	---	1,131E+00	2,759E+00
39	AM-241	---	---	---	4,885E-01	1,192E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 123

Auswertung des Gammaskopimetrischen: T2102086

Bezugsdatum:	18.02.2021 07:35:00	Detektor:	GMX4
Messdatum:	18.02.2021 16:00:00	Messzeit: (life)	2600.00 s
Alter der Probe:	30300 Sekunden	Messzeit: (real)	2600.42 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	5.222 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.02.2021 16:44:59	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210218/01 PW1892 21/0207	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Effiz. %	Effiz. Bq/l	ERD Bq/l	NW Bq/l
1	BE-7	---	---	---	1,835E+00	4,625E+00
2	K-40	3,666E+02	20,8	7,616E+01	2,327E+00	6,365E+00
3	MN-54	---	---	---	2,373E-01	6,119E-01
4	CO-57	---	---	---	1,518E-01	3,692E-01
5	CO-60	---	---	---	3,862E-01	9,911E-01
6	ZN-65	---	---	---	8,185E-01	2,036E+00
7	SE-75	---	---	---	2,611E-01	6,541E-01
8	SR-85	---	---	---	2,658E-01	6,539E-01
9	Y-88	---	---	---	1,994E-01	6,028E-01
10	NB-94	---	---	---	2,538E-01	6,515E-01
11	RU-106	---	---	---	2,083E+00	5,397E+00
12	AG-108M	---	---	---	2,797E-01	7,266E-01
13	AG-110M	---	---	---	2,367E-01	6,187E-01
14	CD-109	---	---	---	4,155E+00	1,004E+01
15	SN-113	---	---	---	2,403E-01	6,089E-01
16	SB-125	---	---	---	6,006E-01	1,519E+00
17	I-129	---	---	---	4,503E+00	1,172E+01
18	CS-134	---	---	---	2,281E-01	5,851E-01
19	CS-137	---	---	---	2,260E-01	5,855E-01
20	CE-139	---	---	---	1,561E-01	3,849E-01
21	CE-144	---	---	---	1,180E+00	2,874E+00
22	EU-152	---	---	---	6,181E-01	1,554E+00
23	EU-154	---	---	---	1,182E+00	3,067E+00
24	HG-203	---	---	---	1,988E-01	4,897E-01
25	TL-208	---	---	---	2,662E-01	6,795E-01
26	PB-210	---	---	---	5,736E+00	1,434E+01
27	PB-212	---	---	---	3,550E-01	8,699E-01
28	PB-214	---	---	---	5,059E-01	1,254E+00
29	BI-212	---	---	---	3,441E+00	8,832E+00
30	BI-214	---	---	---	4,634E-01	1,192E+00
31	RA-223	---	---	---	4,189E+00	1,038E+01
32	RA-226	---	---	---	3,797E+00	9,301E+00
33	AC-228	---	---	---	1,139E+00	2,890E+00
34	TH-227	---	---	---	1,241E+00	3,233E+00
35	TH-230	---	---	---	4,844E+01	1,220E+02
36	TH-234	---	---	---	4,525E+00	1,212E+01
37	PA-234M	---	---	---	4,298E+01	1,075E+02
38	U-235	---	---	---	1,141E+00	2,791E+00
39	AM-241	---	---	---	5,102E-01	1,245E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 124

Auswertung des Gammaskopimetrischen: T2103129

Bezugsdatum:	18.03.2021 07:55:00	Detektor:	GMX2
Messdatum:	19.03.2021 14:00:00	Messzeit: (life)	4000.00 s
Alter der Probe:	1.25 Tage	Messzeit: (real)	4000.76 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.499 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.03.2021 15:10:26	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210318/01 PW1909 21/0383	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	aktive Zahl	Anteil %	Energie [keV]	ERT [min]	RWT [Hq]
1	BE-7	---	---	---	2,152E+00	5,363E+00
2	K-40	3,638E+02	20,7	7,548E+01	4,090E+00	1,050E+01
3	MN-54	---	---	---	2,945E-01	7,486E-01
4	CO-57	---	---	---	1,576E-01	3,805E-01
5	CO-60	---	---	---	2,937E-01	7,947E-01
6	ZN-65	---	---	---	1,003E+00	2,475E+00
7	SE-75	---	---	---	3,261E-01	7,966E-01
8	SR-85	---	---	---	2,848E-01	6,998E-01
9	Y-88	---	---	---	2,634E-01	7,690E-01
10	NB-94	---	---	---	3,546E-01	8,868E-01
11	RU-106	---	---	---	2,385E+00	6,105E+00
12	AG-108M	---	---	---	3,953E-01	9,900E-01
13	AG-110M	---	---	---	2,762E-01	7,087E-01
14	CD-109	---	---	---	3,705E+00	8,992E+00
15	SN-113	---	---	---	3,150E-01	7,787E-01
16	SB-125	---	---	---	6,415E-01	1,613E+00
17	I-129	---	---	---	3,815E+00	1,020E+01
18	CS-134	---	---	---	3,134E-01	7,788E-01
19	CS-137	---	---	---	3,601E-01	8,932E-01
20	CE-139	---	---	---	1,425E-01	3,513E-01
21	CE-144	---	---	---	1,165E+00	2,825E+00
22	EU-152	---	---	---	6,638E-01	1,653E+00
23	EU-154	---	---	---	1,735E+00	4,328E+00
24	HG-203	---	---	---	2,306E-01	5,612E-01
25	TL-208	---	---	---	3,640E-01	9,010E-01
26	PB-210	---	---	---	5,144E+00	1,312E+01
27	PB-212	---	---	---	3,901E-01	9,467E-01
28	PB-214	---	---	---	5,270E-01	1,302E+00
29	BI-212	---	---	---	3,808E+00	9,739E+00
30	BI-214	---	---	---	7,331E-01	1,807E+00
31	RA-226	---	---	---	3,835E+00	9,344E+00
32	AC-228	---	---	---	1,387E+00	3,481E+00
33	TH-227	---	---	---	1,271E+00	3,285E+00
34	TH-230	---	---	---	4,347E+01	1,105E+02
35	TH-234	---	---	---	4,669E+00	1,256E+01
36	PA-234M	---	---	---	4,258E+01	1,078E+02
37	U-235	---	---	---	1,201E+00	2,910E+00
38	AM-241	---	---	---	4,669E-01	1,152E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 125

Auswertung des Gammaskopimetrischen: T2104076

Bezugsdatum:	15.04.2021 07:45:00	Detektor:	GMX2
Messdatum:	19.04.2021 12:15:00	Messzeit: (life)	5400.00 s
Alter der Probe:	4.19 Tage	Messzeit: (real)	5401.07 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.634 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.04.2021 14:38:09	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210415/01 PW1924 21/0528	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Erhalt (%)	Erhalt. Bq/l	BWG Bq/l	MWG Bq/l
1	BE-7	---	---	---	1,730E+00	4,294E+00
2	K-40	3,659E+02	20,7	7,563E+01	3,536E+00	8,920E+00
3	MN-54	---	---	---	2,580E-01	6,448E-01
4	CO-57	---	---	---	1,083E-01	2,628E-01
5	CO-60	---	---	---	3,405E-01	8,662E-01
6	ZN-65	---	---	---	7,781E-01	1,914E+00
7	SE-75	---	---	---	2,627E-01	6,387E-01
8	SR-85	---	---	---	2,502E-01	6,082E-01
9	Y-88	---	---	---	1,732E-01	5,226E-01
10	NB-94	---	---	---	2,852E-01	7,076E-01
11	RU-106	---	---	---	1,997E+00	5,045E+00
12	AG-108M	---	---	---	2,835E-01	7,123E-01
13	AG-110M	---	---	---	2,479E-01	6,234E-01
14	CD-109	---	---	---	3,238E+00	7,790E+00
15	SN-113	---	---	---	2,440E-01	6,018E-01
16	SB-125	---	---	---	6,098E-01	1,499E+00
17	I-129	---	---	---	3,180E+00	8,446E+00
18	CS-134	---	---	---	2,292E-01	5,704E-01
19	CS-137	---	---	---	2,668E-01	6,618E-01
20	CE-139	---	---	---	1,605E-01	3,851E-01
21	CE-144	---	---	---	9,581E-01	2,310E+00
22	EU-152	---	---	---	6,083E-01	1,488E+00
23	EU-154	---	---	---	1,226E+00	3,073E+00
24	HG-203	---	---	---	1,810E-01	4,401E-01
25	TL-208	---	---	---	2,804E-01	6,918E-01
26	PB-210	---	---	---	4,708E+00	1,187E+01
27	PB-212	---	---	---	3,444E-01	8,266E-01
28	PB-214	---	---	---	4,216E-01	1,035E+00
29	BI-212	---	---	---	4,135E+00	1,018E+01
30	BI-214	---	---	---	5,795E-01	1,421E+00
31	RA-226	---	---	---	3,520E+00	8,459E+00
32	AC-228	---	---	---	1,188E+00	2,941E+00
33	TH-227	---	---	---	1,092E+00	2,793E+00
34	TH-230	---	---	---	3,833E+01	9,661E+01
35	TH-234	---	---	---	4,195E+00	1,118E+01
36	PA-234M	---	---	---	4,260E+01	1,048E+02
37	U-235	---	---	---	1,054E+00	2,528E+00
38	AM-241	---	---	---	3,810E-01	9,353E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 126

Auswertung des Gammaskopimetrischen: T2105093

Bezugsdatum:	12.05.2021 07:55:00	Detektor:	GMX2
Messdatum:	12.05.2021 14:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	22800 Sekunden	Messzeit: (real)	3600.69 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.534 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	12.05.2021 15:30:53	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210512/01 PW1942 21/0697	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

IM	Isotop	AR (W/L)	Faktor (W/L)	ER (W/L)	EWG (W/L)	IWL (W/L)
1	BE-7	---	---	---	1,883E+00	4,806E+00
2	K-40	3,252E+02	20,8	6,772E+01	4,984E+00	1,266E+01
3	MN-54	---	---	---	3,417E-01	8,641E-01
4	CO-57	---	---	---	1,629E-01	3,951E-01
5	CO-60	---	---	---	3,262E-01	8,827E-01
6	ZN-65	---	---	---	8,831E-01	2,228E+00
7	SE-75	---	---	---	3,001E-01	7,439E-01
8	SR-85	---	---	---	1,845E-01	4,793E-01
9	Y-88	---	---	---	2,532E-01	7,641E-01
10	NB-94	---	---	---	3,413E-01	8,664E-01
11	RU-106	---	---	---	2,781E+00	7,078E+00
12	AG-108M	---	---	---	2,799E-01	7,394E-01
13	AG-110M	---	---	---	2,886E-01	7,456E-01
14	CD-109	---	---	---	4,129E+00	1,002E+01
15	SN-113	---	---	---	2,957E-01	7,422E-01
16	SB-125	---	---	---	6,210E-01	1,584E+00
17	I-129	---	---	---	3,791E+00	1,021E+01
18	CS-134	---	---	---	3,147E-01	7,896E-01
19	CS-137	---	---	---	3,536E-01	8,877E-01
20	CE-139	---	---	---	1,713E-01	4,197E-01
21	CE-144	---	---	---	1,224E+00	2,979E+00
22	EU-152	---	---	---	7,019E-01	1,756E+00
23	EU-154	---	---	---	1,256E+00	3,290E+00
24	HG-203	---	---	---	2,303E-01	5,644E-01
25	TL-208	---	---	---	3,298E-01	8,326E-01
26	PB-210	---	---	---	5,625E+00	1,436E+01
27	PB-212	---	---	---	5,224E-01	1,253E+00
28	PB-214	---	---	---	6,415E-01	1,573E+00
29	BI-212	---	---	---	4,730E+00	1,195E+01
30	BI-214	---	---	---	7,463E-01	1,853E+00
31	RA-226	---	---	---	5,032E+00	1,213E+01
32	AC-228	---	---	---	1,378E+00	3,500E+00
33	TH-227	---	---	---	1,411E+00	3,647E+00
34	TH-230	---	---	---	4,302E+01	1,101E+02
35	TH-234	---	---	---	5,695E+00	1,524E+01
36	PA-234M	---	---	---	4,717E+01	1,194E+02
37	U-235	---	---	---	1,348E+00	3,265E+00
38	AM-241	---	---	---	4,694E-01	1,165E+00

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 127

Auswertung des Gammaskpektrums: T2106302

Bezugsdatum: 24.06.2021 07:55:00 Messdatum: 25.06.2021 08:10:00 Alter der Probe: 1.01 Tage Probenmasse/Volumen: 1 Nuklidtabelle: RS4_REF3.ISO Ausbeutekurve: RS4REF_1.EFF Absorbtionskurve: RS4_L01.ABS Nulldatei: UR2103T4.NUL Auswertedatum: 25.06.2021 09:54:42 Kommentar: P725010/20210624/01 PW1971 21/1061	Detektor: GMX4 Messzeit: (life) 3600.00 s Messzeit: (real) 3600.58 s Totzeit: 0.02 % Zählrate: 5.249 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.92 keV - 2.28 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Nr.	Isotop	AMV [Bq]	Effizienz [%]	Korrekturfaktor [%]	EMG [Bq]	AMG [Bq]
1	BE-7	---	---	---	1,366E+00	3,435E+00
2	K-40	3,735E+02	20,7	7,733E+01	1,911E+00	5,119E+00
3	MN-54	---	---	---	2,427E-01	6,028E-01
4	CO-57	---	---	---	1,382E-01	3,315E-01
5	CO-60	---	---	---	2,548E-01	6,612E-01
6	ZN-65	---	---	---	6,161E-01	1,527E+00
7	SE-75	---	---	---	2,453E-01	6,011E-01
8	SR-85	---	---	---	1,730E-01	4,297E-01
9	Y-88	---	---	---	1,706E-01	4,961E-01
10	NB-94	---	---	---	2,072E-01	5,245E-01
11	RU-106	---	---	---	1,766E+00	4,491E+00
12	AG-108M	---	---	---	2,711E-01	6,811E-01
13	AG-110M	---	---	---	2,379E-01	5,984E-01
14	CD-109	---	---	---	3,523E+00	8,437E+00
15	SN-113	---	---	---	2,230E-01	5,513E-01
16	SB-125	---	---	---	5,277E-01	1,309E+00
17	I-129	---	---	---	3,831E+00	9,866E+00
18	CS-134	---	---	---	1,928E-01	4,862E-01
19	CS-137	---	---	---	2,529E-01	6,249E-01
20	CE-139	---	---	---	1,459E-01	3,532E-01
21	CE-144	---	---	---	9,553E-01	2,309E+00
22	EU-152	---	---	---	5,084E-01	1,263E+00
23	EU-154	---	---	---	1,146E+00	2,875E+00
24	HG-203	---	---	---	1,621E-01	3,958E-01
25	TL-208	---	---	---	2,180E-01	5,490E-01
26	PB-210	---	---	---	4,811E+00	1,193E+01
27	PB-212	---	---	---	3,281E-01	7,902E-01
28	PB-214	---	---	---	4,241E-01	1,038E+00
29	BI-212	---	---	---	3,410E+00	8,464E+00
30	BI-214	---	---	---	4,625E-01	1,150E+00
31	RA-223	---	---	---	3,185E+00	7,859E+00
32	RA-226	---	---	---	3,178E+00	7,701E+00
33	AC-228	---	---	---	7,846E-01	2,002E+00
34	TH-227	---	---	---	1,133E+00	2,900E+00
35	TH-230	---	---	---	3,973E+01	9,941E+01
36	TH-234	---	---	---	3,857E+00	1,024E+01
37	PA-234M	---	---	---	2,933E+01	7,379E+01
38	U-235	---	---	---	1,013E+00	2,442E+00
39	AM-241	---	---	---	3,883E-01	9,446E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 128

Auswertung des Gammaskopimetrischen: T2107126

Bezugsdatum:	15.07.2021 07:45:00	Detektor:	GMX2
Messdatum:	15.07.2021 15:50:00	Messzeit: (life)	5400.00 s
Alter der Probe:	29100 Sekunden	Messzeit: (real)	5401.03 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.387 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	15.07.2021 17:25:33	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210715/01 PW1996 21/1245	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität Bq/l	FWHM %	FWHM Bq/l	EKG Bq/l	NWG Bq/l
1	BE-7	---	---	---	1,551E+00	3,871E+00
2	K-40	3,505E+02	20,7	7,249E+01	3,470E+00	8,772E+00
3	MN-54	---	---	---	2,514E-01	6,293E-01
4	CO-57	---	---	---	1,308E-01	3,137E-01
5	CO-60	---	---	---	2,989E-01	7,722E-01
6	ZN-65	---	---	---	8,153E-01	1,996E+00
7	SE-75	---	---	---	2,612E-01	6,344E-01
8	SR-85	---	---	---	2,117E-01	5,196E-01
9	Y-88	---	---	---	1,940E-01	5,663E-01
10	NB-94	---	---	---	2,329E-01	5,896E-01
11	RU-106	---	---	---	2,023E+00	5,101E+00
12	AG-108M	---	---	---	2,928E-01	7,333E-01
13	AG-110M	---	---	---	2,500E-01	6,273E-01
14	CD-109	---	---	---	2,987E+00	7,215E+00
15	SN-113	---	---	---	2,288E-01	5,663E-01
16	SB-125	---	---	---	5,373E-01	1,335E+00
17	I-129	---	---	---	3,044E+00	8,102E+00
18	CS-134	---	---	---	2,320E-01	5,764E-01
19	CS-137	---	---	---	2,495E-01	6,228E-01
20	CE-139	---	---	---	1,469E-01	3,539E-01
21	CE-144	---	---	---	9,342E-01	2,254E+00
22	EU-152	---	---	---	5,166E-01	1,281E+00
23	EU-154	---	---	---	1,324E+00	3,292E+00
24	HG-203	---	---	---	1,602E-01	3,913E-01
25	TL-208	---	---	---	2,826E-01	6,968E-01
26	PB-210	---	---	---	4,186E+00	1,062E+01
27	PB-212	---	---	---	3,383E-01	8,129E-01
28	PB-214	---	---	---	4,727E-01	1,150E+00
29	BI-212	---	---	---	3,506E+00	8,759E+00
30	BI-214	---	---	---	5,544E-01	1,364E+00
31	RA-226	---	---	---	3,503E+00	8,421E+00
32	AC-228	---	---	---	1,221E+00	3,016E+00
33	TH-227	---	---	---	1,120E+00	2,860E+00
34	TH-230	---	---	---	3,396E+01	8,611E+01
35	TH-234	---	---	---	4,185E+00	1,115E+01
36	PA-234M	---	---	---	3,960E+01	9,803E+01
37	U-235	---	---	---	1,070E+00	2,565E+00
38	AM-241	---	---	---	3,808E-01	9,348E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 129

Auswertung des Gammaskopimetrischen: T2108068

Bezugsdatum:	12.08.2021 07:25:00	Detektor:	GMX2
Messdatum:	12.08.2021 12:15:00	Messzeit: (life)	3800.00 s
Alter der Probe:	17400 Sekunden	Messzeit: (real)	3800.76 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.640 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	12.08.2021 13:50:35	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20210812/01 PW2026 21/1482	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

No.	Isotop	AMT (Bq/l)	Faktor (%)	Faktor (Bq/l)	ERG (Bq/l)	NW4 (Bq/l)
1	BE-7	---	---	---	2,166E+00	5,415E+00
2	K-40	3,974E+02	20,7	8,239E+01	3,948E+00	1,025E+01
3	MN-54	---	---	---	2,943E-01	7,524E-01
4	CO-57	---	---	---	1,524E-01	3,698E-01
5	CO-60	---	---	---	3,992E-01	1,040E+00
6	ZN-65	---	---	---	1,025E+00	2,536E+00
7	SE-75	---	---	---	3,329E-01	8,146E-01
8	SR-85	---	---	---	2,726E-01	6,747E-01
9	Y-88	---	---	---	2,398E-01	7,236E-01
10	NB-94	---	---	---	3,235E-01	8,212E-01
11	RU-106	---	---	---	2,989E+00	7,506E+00
12	AG-108M	---	---	---	3,894E-01	9,817E-01
13	AG-110M	---	---	---	2,735E-01	7,066E-01
14	CD-109	---	---	---	3,700E+00	9,007E+00
15	SN-113	---	---	---	2,577E-01	6,526E-01
16	SB-125	---	---	---	6,333E-01	1,603E+00
17	I-129	---	---	---	3,797E+00	1,019E+01
18	CS-134	---	---	---	3,091E-01	7,728E-01
19	CS-137	---	---	---	2,764E-01	7,089E-01
20	CE-139	---	---	---	1,709E-01	4,170E-01
21	CE-144	---	---	---	1,231E+00	2,984E+00
22	EU-152	---	---	---	7,243E-01	1,797E+00
23	EU-154	---	---	---	1,653E+00	4,163E+00
24	HG-203	---	---	---	2,116E-01	5,197E-01
25	TL-208	---	---	---	3,760E-01	9,323E-01
26	PB-210	---	---	---	5,279E+00	1,348E+01
27	PB-212	---	---	---	4,908E-01	1,178E+00
28	PB-214	---	---	---	6,533E-01	1,593E+00
29	BI-212	---	---	---	4,796E+00	1,203E+01
30	BI-214	---	---	---	7,447E-01	1,841E+00
31	RA-226	---	---	---	3,950E+00	9,639E+00
32	AC-228	---	---	---	1,069E+00	2,782E+00
33	TH-227	---	---	---	1,489E+00	3,818E+00
34	TH-230	---	---	---	4,555E+01	1,158E+02
35	TH-234	---	---	---	5,123E+00	1,375E+01
36	PA-234M	---	---	---	5,507E+01	1,366E+02
37	U-235	---	---	---	1,187E+00	2,889E+00
38	AM-241	---	---	---	4,519E-01	1,121E+00

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 130
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopmetrischen: T2109094

Bezugsdatum:	16.09.2021 07:50:00	Detektor:	GMX6
Messdatum:	16.09.2021 16:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	30300 Sekunden	Messzeit: (real)	3601.17 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	5.164 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	16.09.2021 17:18:28	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P725010/20210916/01 PW2040 21/1659	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Amplitude [cpv]	Energie [keV]	FWHM [keV]	EWG [cpv]	NWG [cpv]
1	BE-7	---	---	---	1,367E+00	3,416E+00
2	K-40	3,735E+02	20,7	7,728E+01	1,368E+00	3,832E+00
3	MN-54	---	---	---	1,980E-01	4,988E-01
4	CO-57	---	---	---	1,170E-01	2,826E-01
5	CO-60	---	---	---	2,563E-01	6,587E-01
6	ZN-65	---	---	---	5,517E-01	1,373E+00
7	SE-75	---	---	---	2,432E-01	5,953E-01
8	SR-85	---	---	---	1,816E-01	4,468E-01
9	Y-88	---	---	---	1,334E-01	4,032E-01
10	NB-94	---	---	---	1,975E-01	4,991E-01
11	RU-106	---	---	---	1,661E+00	4,227E+00
12	AG-108M	---	---	---	2,201E-01	5,625E-01
13	AG-110M	---	---	---	1,767E-01	4,570E-01
14	CD-109	---	---	---	2,827E+00	6,842E+00
15	SN-113	---	---	---	1,905E-01	4,758E-01
16	SB-125	---	---	---	4,632E-01	1,157E+00
17	I-129	---	---	---	3,348E+00	8,913E+00
18	CS-134	---	---	---	1,501E-01	3,871E-01
19	CS-137	---	---	---	2,063E-01	5,169E-01
20	CE-139	---	---	---	1,279E-01	3,115E-01
21	CE-144	---	---	---	8,400E-01	2,042E+00
22	EU-152	---	---	---	4,973E-01	1,234E+00
23	EU-154	---	---	---	9,516E-01	2,422E+00
24	HG-203	---	---	---	1,515E-01	3,707E-01
25	TL-208	---	---	---	2,100E-01	5,279E-01
26	PB-210	---	---	---	4,481E+00	1,136E+01
27	PB-212	---	---	---	2,812E-01	6,831E-01
28	PB-214	---	---	---	3,777E-01	9,302E-01
29	BI-212	---	---	---	2,660E+00	6,730E+00
30	BI-214	---	---	---	4,381E-01	1,089E+00
31	RA-223	---	---	---	2,879E+00	7,145E+00
32	RA-226	---	---	---	3,166E+00	7,664E+00
33	AC-228	---	---	---	8,531E-01	2,142E+00
34	TH-227	---	---	---	9,382E-01	2,431E+00
35	TH-230	---	---	---	3,124E+01	7,949E+01
36	TH-234	---	---	---	3,432E+00	9,223E+00
37	PA-234M	---	---	---	2,783E+01	6,991E+01
38	U-235	---	---	---	8,861E-01	2,150E+00
39	AM-241	---	---	---	3,391E-01	8,386E-01

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 131

Auswertung des Gammaskopms: T2110092

Bezugsdatum:	14.10.2021 07:35:00	Detektor:	GMX2
Messdatum:	14.10.2021 16:00:00	Messzeit: (life)	4000.00 s
Alter der Probe:	30300 Sekunden	Messzeit: (real)	4000.77 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.547 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	14.10.2021 17:11:09	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20211014/01 PW2055 21/1817	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

n	Isotop	Aktivität Bq/l	Faktor (%)	Faktor [Bq]	BKG [Bq]	NWG [Bq]
1	BE-7	---	---	---	2,062E+00	5,155E+00
2	K-40	3,607E+02	20,7	7,483E+01	3,619E+00	9,439E+00
3	MN-54	---	---	---	3,144E-01	7,932E-01
4	CO-57	---	---	---	1,512E-01	3,659E-01
5	CO-60	---	---	---	4,268E-01	1,095E+00
6	ZN-65	---	---	---	8,744E-01	2,185E+00
7	SE-75	---	---	---	2,623E-01	6,518E-01
8	SR-85	---	---	---	2,358E-01	5,889E-01
9	Y-88	---	---	---	2,280E-01	6,881E-01
10	NB-94	---	---	---	3,353E-01	8,432E-01
11	RU-106	---	---	---	2,943E+00	7,366E+00
12	AG-108M	---	---	---	3,633E-01	9,175E-01
13	AG-110M	---	---	---	2,599E-01	6,716E-01
14	CD-109	---	---	---	3,506E+00	8,537E+00
15	SN-113	---	---	---	2,559E-01	6,451E-01
16	SB-125	---	---	---	6,908E-01	1,724E+00
17	I-129	---	---	---	3,687E+00	9,881E+00
18	CS-134	---	---	---	2,439E-01	6,219E-01
19	CS-137	---	---	---	3,545E-01	8,808E-01
20	CE-139	---	---	---	1,496E-01	3,672E-01
21	CE-144	---	---	---	1,178E+00	2,853E+00
22	EU-152	---	---	---	7,074E-01	1,751E+00
23	EU-154	---	---	---	1,599E+00	4,020E+00
24	HG-203	---	---	---	1,969E-01	4,846E-01
25	TL-208	---	---	---	3,324E-01	8,297E-01
26	PB-210	---	---	---	5,736E+00	1,454E+01
27	PB-212	---	---	---	4,154E-01	1,004E+00
28	PB-214	---	---	---	5,410E-01	1,334E+00
29	BI-212	---	---	---	3,868E+00	9,874E+00
30	BI-214	---	---	---	6,232E-01	1,559E+00
31	RA-226	---	---	---	4,443E+00	1,072E+01
32	AC-228	---	---	---	1,518E+00	3,776E+00
33	TH-227	---	---	---	1,206E+00	3,130E+00
34	TH-230	---	---	---	4,216E+01	1,074E+02
35	TH-234	---	---	---	4,923E+00	1,320E+01
36	PA-234M	---	---	---	4,999E+01	1,245E+02
37	U-235	---	---	---	1,160E+00	2,817E+00
38	AM-241	---	---	---	4,760E-01	1,173E+00

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 132

Auswertung des Gammespektrums: T2111119

Bezugsdatum:	18.11.2021 07:45:00	Detektor:	GMX4
Messdatum:	18.11.2021 13:45:00	Messzeit: (life)	5400.00 s
Alter der Probe:	21600 Sekunden	Messzeit: (real)	5400.81 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.725 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.11.2021 16:10:07	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20211118/01 PW2070 21/1988	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Indrop	Aktivität [Bq]	Effizienz [%]	Effizienz [1/g]	ERG [Bq]	NWG [Bq]
1	BE-7	---	---	---	1,008E+00	2,507E+00
2	K-40	3,418E+02	20,7	7,060E+01	1,889E+00	4,800E+00
3	MN-54	---	---	---	1,662E-01	4,118E-01
4	CO-57	---	---	---	1,005E-01	2,398E-01
5	CO-60	---	---	---	2,320E-01	5,811E-01
6	ZN-65	---	---	---	5,231E-01	1,271E+00
7	SE-75	---	---	---	1,729E-01	4,219E-01
8	SR-85	---	---	---	1,387E-01	3,390E-01
9	Y-88	---	---	---	9,803E-02	2,948E-01
10	NB-94	---	---	---	1,752E-01	4,332E-01
11	RU-106	---	---	---	1,681E+00	4,133E+00
12	AG-108M	---	---	---	2,227E-01	5,490E-01
13	AG-110M	---	---	---	1,828E-01	4,535E-01
14	CD-109	---	---	---	2,661E+00	6,333E+00
15	SN-113	---	---	---	1,709E-01	4,175E-01
16	SB-125	---	---	---	3,767E-01	9,288E-01
17	I-129	---	---	---	3,128E+00	7,972E+00
18	CS-134	---	---	---	1,707E-01	4,194E-01
19	CS-137	---	---	---	1,686E-01	4,166E-01
20	CE-139	---	---	---	1,065E-01	2,563E-01
21	CE-144	---	---	---	7,805E-01	1,865E+00
22	EU-152	---	---	---	4,547E-01	1,103E+00
23	EU-154	---	---	---	9,411E-01	2,318E+00
24	HG-203	---	---	---	1,224E-01	2,960E-01
25	TL-208	---	---	---	1,681E-01	4,173E-01
26	PB-210	---	---	---	3,668E+00	9,033E+00
27	PB-212	---	---	---	2,619E-01	6,243E-01
28	PB-214	---	---	---	3,264E-01	7,907E-01
29	BI-212	---	---	---	2,542E+00	6,248E+00
30	BI-214	---	---	---	3,910E-01	9,532E-01
31	RA-223	---	---	---	2,297E+00	5,632E+00
32	RA-226	---	---	---	2,345E+00	5,645E+00
33	AC-228	---	---	---	6,512E-01	1,623E+00
34	TH-227	---	---	---	7,910E-01	2,019E+00
35	TH-230	---	---	---	2,963E+01	7,374E+01
36	TH-234	---	---	---	2,832E+00	7,482E+00
37	PA-234M	---	---	---	2,347E+01	5,802E+01
38	U-235	---	---	---	8,073E-01	1,927E+00
39	AM-241	---	---	---	3,060E-01	7,381E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 133

Auswertung des Gammaskopimetrischen: T2112090

Bezugsdatum:	16.12.2021 07:45:00	Detektor:	GMX2
Messdatum:	16.12.2021 17:05:00	Messzeit: (life)	4200.00 s
Alter der Probe:	33600 Sekunden	Messzeit: (real)	4200.77 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidlabelle:	RS2_REF2.ISO	Zählrate:	4.278 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.12.2021 18:16:15	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725010/20211216/01 PW2084 21/2152	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Anteil [%]	Standardabweichung [Bq]	IBIS [Bq]	NWZ [Bq]
1	BE-7	---	---	---	1,692E+00	4,296E+00
2	K-40	3,408E+02	20,7	7,071E+01	3,672E+00	9,498E+00
3	MN-54	---	---	---	2,866E-01	7,265E-01
4	CO-57	---	---	---	1,352E-01	3,285E-01
5	CO-60	---	---	---	4,373E-01	1,112E+00
6	ZN-65	---	---	---	7,414E-01	1,875E+00
7	SE-75	---	---	---	2,757E-01	6,795E-01
8	SR-85	---	---	---	2,456E-01	6,081E-01
9	Y-88	---	---	---	2,495E-01	7,284E-01
10	NB-94	---	---	---	3,192E-01	8,028E-01
11	RU-106	---	---	---	2,802E+00	7,013E+00
12	AG-108M	---	---	---	3,122E-01	7,973E-01
13	AG-110M	---	---	---	2,835E-01	7,209E-01
14	CD-109	---	---	---	3,508E+00	8,517E+00
15	SN-113	---	---	---	2,632E-01	6,583E-01
16	SB-125	---	---	---	6,909E-01	1,716E+00
17	I-129	---	---	---	3,485E+00	9,343E+00
18	CS-134	---	---	---	2,436E-01	6,177E-01
19	CS-137	---	---	---	2,711E-01	6,889E-01
20	CE-139	---	---	---	1,673E-01	4,061E-01
21	CE-144	---	---	---	1,100E+00	2,669E+00
22	EU-152	---	---	---	5,753E-01	1,446E+00
23	EU-154	---	---	---	1,318E+00	3,367E+00
24	HG-203	---	---	---	1,997E-01	4,890E-01
25	TL-208	---	---	---	2,902E-01	7,305E-01
26	PB-210	---	---	---	4,909E+00	1,252E+01
27	PB-212	---	---	---	3,781E-01	9,166E-01
28	PB-214	---	---	---	5,223E-01	1,286E+00
29	BI-212	---	---	---	4,107E+00	1,036E+01
30	BI-214	---	---	---	6,535E-01	1,620E+00
31	RA-226	---	---	---	4,637E+00	1,113E+01
32	AC-228	---	---	---	1,424E+00	3,548E+00
33	TH-227	---	---	---	1,197E+00	3,095E+00
34	TH-230	---	---	---	4,174E+01	1,061E+02
35	TH-234	---	---	---	4,475E+00	1,203E+01
36	PA-234M	---	---	---	4,248E+01	1,070E+02
37	U-235	---	---	---	1,267E+00	3,050E+00
38	AM-241	---	---	---	4,362E-01	1,078E+00

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 134

8 Messergebnisse Laugenmessstelle P725019

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 135
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2103032

Bezugsdatum:	03.03.2021 07:40:00	Detektor:	GMX2
Messdatum:	03.03.2021 19:30:00	Messzeit: (life)	5400.00 s
Alter der Probe:	42600 Sekunden	Messzeit: (real)	5400.97 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.097 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	04.03.2021 08:02:37	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725019/20210303/01 PW 1902 21/0295	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität [Bq]	Zeitpunkt [Min]	Lebensdauer [Min]	ICG [Bq]	MWG [Bq/l]
1	BE-7	---	---	---	1,266E+00	3,228E+00
2	K-40	2,731E+02	20,7	5,665E+01	3,196E+00	8,154E+00
3	MN-54	---	---	---	2,559E-01	6,395E-01
4	CO-57	---	---	---	1,171E-01	2,828E-01
5	CO-60	---	---	---	3,076E-01	7,918E-01
6	ZN-65	---	---	---	7,413E-01	1,830E+00
7	SE-75	---	---	---	2,430E-01	5,931E-01
8	SR-85	---	---	---	2,120E-01	5,203E-01
9	Y-88	---	---	---	1,691E-01	5,102E-01
10	NB-94	---	---	---	2,580E-01	6,462E-01
11	RU-106	---	---	---	2,254E+00	5,622E+00
12	AG-108M	---	---	---	2,973E-01	7,436E-01
13	AG-110M	---	---	---	2,967E-01	7,330E-01
14	CD-109	---	---	---	2,977E+00	7,192E+00
15	SN-113	---	---	---	2,355E-01	5,814E-01
16	SB-125	---	---	---	6,008E-01	1,478E+00
17	I-129	---	---	---	3,214E+00	8,529E+00
18	CS-134	---	---	---	2,645E-01	6,499E-01
19	CS-137	---	---	---	2,310E-01	5,811E-01
20	CE-139	---	---	---	1,384E-01	3,347E-01
21	CE-144	---	---	---	9,739E-01	2,344E+00
22	EU-152	---	---	---	5,228E-01	1,294E+00
23	EU-154	---	---	---	1,285E+00	3,205E+00
24	HG-203	---	---	---	1,980E-01	4,768E-01
25	TL-208	---	---	---	3,042E-01	7,454E-01
26	PB-210	---	---	---	4,317E+00	1,093E+01
27	PB-212	---	---	---	2,969E-01	7,192E-01
28	PB-214	---	---	---	4,471E-01	1,092E+00
29	BI-212	---	---	---	3,025E+00	7,674E+00
30	BI-214	---	---	---	5,199E-01	1,286E+00
31	RA-226	---	---	---	3,639E+00	8,730E+00
32	AC-228	---	---	---	1,271E+00	3,127E+00
33	TH-227	---	---	---	1,125E+00	2,871E+00
34	TH-230	---	---	---	3,616E+01	9,139E+01
35	TH-234	---	---	---	4,180E+00	1,114E+01
36	PA-234M	---	---	---	4,205E+01	1,035E+02
37	U-235	---	---	---	1,083E+00	2,594E+00
38	AM-241	---	---	---	3,683E-01	9,057E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 136

Auswertung des Gammaskopimetrischen: T2103053

Bezugsdatum:	08.03.2021 07:15:00	Detektor:	GMX2
Messdatum:	08.03.2021 18:00:00	Messzeit: (life)	7200.00 s
Alter der Probe:	38700 Sekunden	Messzeit: (real)	7201.27 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.098 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	09.03.2021 07:40:47	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725019/20210308/01 PW1904 21/0310	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Relativ [%]	Relativ [Bq]	Erk. [Bq]	MWG [Bq]
1	BE-7	---	---	---	1,569E+00	3,818E+00
2	K-40	2,973E+02	20,7	6,140E+01	2,927E+00	7,311E+00
3	MN-54	---	---	---	1,672E-01	4,238E-01
4	CO-57	---	---	---	1,062E-01	2,538E-01
5	CO-60	---	---	---	2,664E-01	6,744E-01
6	ZN-65	---	---	---	6,440E-01	1,571E+00
7	SE-75	---	---	---	2,029E-01	4,916E-01
8	SR-85	---	---	---	1,639E-01	4,014E-01
9	Y-88	---	---	---	1,926E-01	5,312E-01
10	NB-94	---	---	---	2,265E-01	5,591E-01
11	RU-106	---	---	---	2,013E+00	4,948E+00
12	AG-108M	---	---	---	2,853E-01	6,986E-01
13	AG-110M	---	---	---	2,195E-01	5,430E-01
14	CD-109	---	---	---	2,716E+00	6,497E+00
15	SN-113	---	---	---	2,093E-01	5,098E-01
16	SB-125	---	---	---	3,836E-01	9,574E-01
17	I-129	---	---	---	2,854E+00	7,510E+00
18	CS-134	---	---	---	2,120E-01	5,182E-01
19	CS-137	---	---	---	2,264E-01	5,557E-01
20	GE-139	---	---	---	1,158E-01	2,781E-01
21	CE-144	---	---	---	8,126E-01	1,945E+00
22	EU-152	---	---	---	5,012E-01	1,217E+00
23	EU-154	---	---	---	1,163E+00	2,852E+00
24	HG-203	---	---	---	1,537E-01	3,693E-01
25	TL-208	---	---	---	2,672E-01	6,473E-01
26	PB-210	---	---	---	3,743E+00	9,416E+00
27	PB-212	---	---	---	2,885E-01	6,883E-01
28	PB-214	---	---	---	3,334E-01	8,151E-01
29	BI-212	---	---	---	2,991E+00	7,386E+00
30	BI-214	---	---	---	5,015E-01	1,216E+00
31	RA-226	---	---	---	3,126E+00	7,444E+00
32	AC-228	---	---	---	1,108E+00	2,696E+00
33	TH-227	---	---	---	9,337E-01	2,368E+00
34	TH-230	---	---	---	2,958E+01	7,445E+01
35	TH-234	---	---	---	3,228E+00	8,594E+00
36	PA-234M	---	---	---	3,139E+01	7,733E+01
37	U-235	---	---	---	7,982E-01	1,914E+00
38	AM-241	---	---	---	3,394E-01	8,264E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 137

Auswertung des Gammaskopimetrischen: T2105030

Bezugsdatum:	05.05.2021 07:20:00	Detektor:	GMX2
Messdatum:	06.05.2021 08:50:00	Messzeit: (life)	5400.00 s
Alter der Probe:	1.06 Tage	Messzeit: (real)	5401.00 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.234 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	06.05.2021 10:58:51	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725019/20210505/01 PW1933 21/0639	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Zähler (%)	Zähler [cp/l]	ERG [Bq/l]	MWV [cp/l]
1	BE-7	---	---	---	1,465E+00	3,680E+00
2	K-40	3,026E+02	20,7	6,268E+01	2,973E+00	7,650E+00
3	MN-54	---	---	---	2,282E-01	5,771E-01
4	CO-57	---	---	---	1,310E-01	3,143E-01
5	CO-60	---	---	---	3,401E-01	8,653E-01
6	ZN-65	---	---	---	6,814E-01	1,695E+00
7	SE-75	---	---	---	2,736E-01	6,626E-01
8	SR-85	---	---	---	1,666E-01	4,182E-01
9	Y-88	---	---	---	1,949E-01	5,689E-01
10	NB-94	---	---	---	2,580E-01	6,462E-01
11	RU-106	---	---	---	2,105E+00	5,288E+00
12	AG-108M	---	---	---	2,835E-01	7,123E-01
13	AG-110M	---	---	---	2,312E-01	5,850E-01
14	CD-109	---	---	---	3,039E+00	7,333E+00
15	SN-113	---	---	---	2,855E-01	6,943E-01
16	SB-125	---	---	---	4,557E-01	1,151E+00
17	I-129	---	---	---	3,438E+00	9,091E+00
18	CS-134	---	---	---	2,274E-01	5,662E-01
19	CS-137	---	---	---	2,582E-01	6,426E-01
20	CE-139	---	---	---	1,361E-01	3,295E-01
21	CE-144	---	---	---	9,526E-01	2,296E+00
22	EU-152	---	---	---	5,299E-01	1,310E+00
23	EU-154	---	---	---	1,163E+00	2,929E+00
24	HG-203	---	---	---	1,936E-01	4,671E-01
25	TL-208	---	---	---	2,840E-01	6,997E-01
26	PB-210	---	---	---	4,394E+00	1,112E+01
27	PB-212	---	---	---	3,169E-01	7,644E-01
28	PB-214	---	---	---	4,852E-01	1,179E+00
29	BI-212	---	---	---	3,511E+00	8,772E+00
30	BI-214	---	---	---	4,826E-01	1,202E+00
31	RA-226	---	---	---	3,521E+00	8,461E+00
32	AC-228	---	---	---	1,081E+00	2,699E+00
33	TH-227	---	---	---	1,140E+00	2,907E+00
34	TH-230	---	---	---	3,625E+01	9,162E+01
35	TH-234	---	---	---	4,092E+00	1,092E+01
36	PA-234M	---	---	---	3,794E+01	9,428E+01
37	U-235	---	---	---	1,083E+00	2,594E+00
38	AM-241	---	---	---	3,855E-01	9,457E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 138

Auswertung des Gammaskopimetrischen: T2106327

Bezugsdatum:	28.06.2021 14:10:00	Detektor:	GMX4
Messdatum:	28.06.2021 18:45:00	Messzeit: (life)	3600.00 s
Alter der Probe:	16500 Sekunden	Messzeit: (real)	3600.51 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.376 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	29.06.2021 07:03:29	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725019/20201120/01 PW1985 21/1101	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AWV(GE) [dpm]	Fehler [%]	FWHM [keV]	BKE [dpm]	NWG [dpm]
1	BE-7	---	---	---	1,323E+00	3,334E+00
2	K-40	2,531E+02	20,8	5,261E+01	2,122E+00	5,594E+00
3	MN-54	---	---	---	2,036E-01	5,145E-01
4	CO-57	---	---	---	1,139E-01	2,763E-01
5	CO-60	---	---	---	2,461E-01	6,415E-01
6	ZN-65	---	---	---	5,267E-01	1,325E+00
7	SE-75	---	---	---	2,467E-01	6,041E-01
8	SR-85	---	---	---	1,654E-01	4,123E-01
9	Y-88	---	---	---	1,897E-01	5,388E-01
10	NB-94	---	---	---	2,367E-01	5,908E-01
11	RU-106	---	---	---	1,639E+00	4,202E+00
12	AG-108M	---	---	---	2,213E-01	5,685E-01
13	AG-110M	---	---	---	2,238E-01	5,663E-01
14	CD-109	---	---	---	2,995E+00	7,237E+00
15	SN-113	---	---	---	1,991E-01	4,973E-01
16	SB-125	---	---	---	4,954E-01	1,236E+00
17	I-129	---	---	---	3,695E+00	9,536E+00
18	CS-134	---	---	---	1,614E-01	4,150E-01
19	CS-137	---	---	---	2,309E-01	5,753E-01
20	CE-139	---	---	---	1,293E-01	3,155E-01
21	CE-144	---	---	---	9,029E-01	2,190E+00
22	EU-152	---	---	---	4,861E-01	1,212E+00
23	EU-154	---	---	---	9,860E-01	2,514E+00
24	HG-203	---	---	---	1,572E-01	3,842E-01
25	TL-208	---	---	---	1,923E-01	4,908E-01
26	PB-210	---	---	---	4,595E+00	1,142E+01
27	PB-212	---	---	---	3,164E-01	7,639E-01
28	PB-214	1,120E+00	27,7	3,106E-01	3,625E-01	8,992E-01
29	BI-212	---	---	---	2,557E+00	6,542E+00
30	BI-214	2,718E+00	25,2	6,861E-01	4,159E-01	1,045E+00
31	RA-223	---	---	---	3,066E+00	7,590E+00
32	RA-226	---	---	---	2,667E+00	6,546E+00
33	AC-228	---	---	---	8,772E-01	2,210E+00
34	TH-227	---	---	---	9,435E-01	2,448E+00
35	TH-230	---	---	---	3,634E+01	9,134E+01
36	TH-234	---	---	---	4,040E+00	1,070E+01
37	PA-234M	---	---	---	2,814E+01	7,109E+01
38	U-235	---	---	---	8,772E-01	2,135E+00
39	AM-241	---	---	---	4,034E-01	9,794E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 139

Auswertung des Gammaskopimetrischen: T2108028

Bezugsdatum:	04.08.2021 07:45:00	Detektor:	GMX4
Messdatum:	04.08.2021 17:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	35100 Sekunden	Messzeit: (real)	3600.54 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.714 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	04.08.2021 18:40:29	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725019/20210804/01 PW2017 21/1441	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität [Bq]	Einheit [Bq]	Faktor [Bq]	ER7 [Bq]	MW1 [Bq]
1	BE-7	---	---	---	1,174E+00	2,999E+00
2	K-40	3,232E+02	20,7	6,699E+01	1,856E+00	4,994E+00
3	MN-54	---	---	---	1,812E-01	4,641E-01
4	CO-57	---	---	---	1,106E-01	2,689E-01
5	CO-60	---	---	---	2,547E-01	6,610E-01
6	ZN-65	---	---	---	5,327E-01	1,339E+00
7	SE-75	---	---	---	2,761E-01	6,710E-01
8	SR-85	---	---	---	1,418E-01	3,593E-01
9	Y-88	---	---	---	2,081E-01	5,806E-01
10	NB-94	---	---	---	2,245E-01	5,635E-01
11	RU-106	---	---	---	1,551E+00	4,003E+00
12	AG-108M	---	---	---	2,333E-01	5,956E-01
13	AG-110M	---	---	---	2,095E-01	5,339E-01
14	CD-109	---	---	---	3,092E+00	7,457E+00
15	SN-113	---	---	---	2,028E-01	5,057E-01
16	SB-125	---	---	---	4,786E-01	1,198E+00
17	I-129	---	---	---	3,578E+00	9,251E+00
18	CS-134	---	---	---	1,852E-01	4,688E-01
19	CS-137	---	---	---	1,885E-01	4,798E-01
20	CE-139	---	---	---	1,446E-01	3,502E-01
21	CE-144	---	---	---	9,841E-01	2,374E+00
22	EU-152	---	---	---	4,936E-01	1,229E+00
23	EU-154	---	---	---	1,034E+00	2,623E+00
24	HG-203	---	---	---	1,665E-01	4,054E-01
25	TL-208	---	---	---	2,180E-01	5,490E-01
26	PB-210	---	---	---	4,470E+00	1,112E+01
27	PB-212	---	---	---	2,969E-01	7,198E-01
28	PB-214	---	---	---	3,967E-01	9,763E-01
29	BI-212	---	---	---	3,014E+00	7,571E+00
30	BI-214	---	---	---	4,827E-01	1,195E+00
31	RA-223	---	---	---	3,223E+00	7,945E+00
32	RA-226	---	---	---	3,202E+00	7,756E+00
33	AC-228	---	---	---	7,647E-01	1,957E+00
34	TH-227	---	---	---	1,057E+00	2,720E+00
35	TH-230	---	---	---	3,726E+01	9,354E+01
36	TH-234	---	---	---	3,857E+00	1,024E+01
37	PA-234M	---	---	---	2,992E+01	7,511E+01
38	U-235	---	---	---	1,026E+00	2,471E+00
39	AM-241	---	---	---	3,838E-01	9,344E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 140

Auswertung des Gammaskopimetrischen: T2110077

Bezugsdatum:	13.10.2021 08:35:00	Detektor:	GMX6
Messdatum:	13.10.2021 15:30:00	Messzeit: (life)	3000.00 s
Alter der Probe:	24900 Sekunden	Messzeit: (real)	3000.87 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	4.657 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	13.10.2021 16:23:29	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P725019/20211013/01 PW2053 21/1804	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	aktiviert [dpm]	Erhalt [y]	Zähler [cpm]	EKG [cpm]	WVC [dpm]
1	BE-7	---	---	---	1,325E+00	3,389E+00
2	K-40	3,050E+02	20,8	6,333E+01	1,553E+00	4,397E+00
3	MN-54	---	---	---	1,841E-01	4,778E-01
4	CO-57	---	---	---	9,864E-02	2,446E-01
5	CO-60	---	---	---	3,499E-01	8,860E-01
6	ZN-65	---	---	---	7,195E-01	1,777E+00
7	SE-75	---	---	---	2,235E-01	5,596E-01
8	SR-85	---	---	---	1,707E-01	4,298E-01
9	Y-88	---	---	---	1,601E-01	4,836E-01
10	NB-94	---	---	---	1,781E-01	4,663E-01
11	RU-106	---	---	---	1,627E+00	4,246E+00
12	AG-108M	---	---	---	2,009E-01	5,321E-01
13	AG-110M	---	---	---	1,984E-01	5,173E-01
14	CD-109	---	---	---	2,882E+00	7,052E+00
15	SN-113	---	---	---	2,025E-01	5,123E-01
16	SB-125	---	---	---	5,146E-01	1,295E+00
17	I-129	---	---	---	3,543E+00	9,524E+00
18	CS-134	---	---	---	2,227E-01	5,608E-01
19	CS-137	---	---	---	1,682E-01	4,414E-01
20	CE-139	---	---	---	1,493E-01	3,644E-01
21	CE-144	---	---	---	8,545E-01	2,103E+00
22	EU-152	---	---	---	5,525E-01	1,380E+00
23	EU-154	---	---	---	8,469E-01	2,239E+00
24	HG-203	---	---	---	1,576E-01	3,902E-01
25	TL-208	---	---	---	2,274E-01	5,781E-01
26	PB-210	---	---	---	5,048E+00	1,285E+01
27	PB-212	---	---	---	2,796E-01	6,894E-01
28	PB-214	---	---	---	3,925E-01	9,794E-01
29	BI-212	---	---	---	2,511E+00	6,543E+00
30	BI-214	---	---	---	4,900E-01	1,227E+00
31	RA-223	---	---	---	2,336E+00	6,050E+00
32	RA-226	---	---	---	3,151E+00	7,731E+00
33	AC-228	---	---	---	9,835E-01	2,480E+00
34	TH-227	---	---	---	1,237E+00	3,182E+00
35	TH-230	---	---	---	3,095E+01	7,979E+01
36	TH-234	---	---	---	3,718E+00	1,006E+01
37	PA-234M	---	---	---	3,272E+01	8,237E+01
38	U-235	---	---	---	9,112E-01	2,237E+00
39	AM-241	---	---	---	3,495E-01	8,738E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 141

9 Messergebnisse Laugenmessstelle P725020

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 142

Auswertung des Gammaskopimetrischen: T2103034

Bezugsdatum:	03.03.2021 07:55:00	Detektor:	GMX2
Messdatum:	04.03.2021 09:10:00	Messzeit: (life)	5400.00 s
Alter der Probe:	1.05 Tage	Messzeit: (real)	5401.20 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.315 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	04.03.2021 11:30:51	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725020/20210303/01 PW1902 21/0296	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AMOUNT (Bq)	Faktor (1/s)	Faktor (Bq/l)	BK (Bq)	MW (Bq/l)
1	BE-7	---	---	---	2,015E+00	4,921E+00
2	K-40	4,828E+02	20,6	9,953E+01	3,004E+00	7,720E+00
3	MN-54	---	---	---	2,562E-01	6,403E-01
4	CO-57	---	---	---	1,299E-01	3,117E-01
5	CO-60	---	---	---	3,478E-01	8,825E-01
6	ZN-65	---	---	---	8,345E-01	2,040E+00
7	SE-75	---	---	---	2,822E-01	6,820E-01
8	SR-85	---	---	---	2,061E-01	5,075E-01
9	Y-88	---	---	---	1,949E-01	5,689E-01
10	NB-94	---	---	---	2,808E-01	6,978E-01
11	RU-106	---	---	---	2,465E+00	6,100E+00
12	AG-108M	---	---	---	3,191E-01	7,928E-01
13	AG-110M	---	---	---	2,350E-01	5,936E-01
14	CD-109	---	---	---	3,553E+00	8,509E+00
15	SN-113	---	---	---	2,719E-01	6,637E-01
16	SB-125	---	---	---	5,459E-01	1,354E+00
17	I-129	---	---	---	3,320E+00	8,796E+00
18	CS-134	---	---	---	2,828E-01	6,913E-01
19	CS-137	1,786E+00	24,9	4,451E-01	2,285E-01	5,756E-01
20	CE-139	---	---	---	1,423E-01	3,436E-01
21	CE-144	---	---	---	1,041E+00	2,496E+00
22	EU-152	---	---	---	6,081E-01	1,487E+00
23	EU-154	---	---	---	1,397E+00	3,458E+00
24	HG-203	---	---	---	2,124E-01	5,095E-01
25	TL-208	---	---	---	3,009E-01	7,380E-01
26	PB-210	---	---	---	4,898E+00	1,233E+01
27	PB-212	---	---	---	3,553E-01	8,512E-01
28	PB-214	---	---	---	5,046E-01	1,222E+00
29	BI-212	---	---	---	3,337E+00	8,379E+00
30	BI-214	---	---	---	7,004E-01	1,693E+00
31	RA-226	---	---	---	4,089E+00	9,748E+00
32	AC-228	---	---	---	1,477E+00	3,593E+00
33	TH-227	---	---	---	1,373E+00	3,464E+00
34	TH-230	---	---	---	3,737E+01	9,431E+01
35	TH-234	---	---	---	4,355E+00	1,159E+01
36	PA-234M	---	---	---	4,205E+01	1,035E+02
37	U-235	---	---	---	1,135E+00	2,712E+00
38	AM-241	---	---	---	4,231E-01	1,033E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 143

Auswertung des Gammaskopimetrischen: T2105094

Bezugsdatum:	12.05.2021 08:15:00	Detektor:	GMX6
Messdatum:	12.05.2021 14:20:00	Messzeit: (life)	3600.00 s
Alter der Probe:	21900 Sekunden	Messzeit: (real)	3601.31 s
Probenmasse/Volumen:	1	Totzeit:	0.04 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	6.301 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	12.05.2021 15:27:07	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P725020/20210512/01 PW1945 21/0698	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Effizienz [%]	Effizienz [3σ]	EMG [Bq]	MWG [3σ]
1	BE-7	---	---	---	1,442E+00	3,584E+00
2	K-40	4,716E+02	20,7	9,743E+01	1,820E+00	4,851E+00
3	MN-54	---	---	---	2,019E-01	5,076E-01
4	CO-57	---	---	---	1,170E-01	2,825E-01
5	CO-60	---	---	---	2,780E-01	7,077E-01
6	ZN-65	---	---	---	6,525E-01	1,600E+00
7	SE-75	---	---	---	2,523E-01	6,160E-01
8	SR-85	---	---	---	1,985E-01	4,849E-01
9	Y-88	---	---	---	1,334E-01	4,029E-01
10	NB-94	---	---	---	2,436E-01	6,030E-01
11	RU-106	---	---	---	2,174E+00	5,387E+00
12	AG-108M	---	---	---	2,142E-01	5,492E-01
13	AG-110M	---	---	---	1,915E-01	4,904E-01
14	CD-109	---	---	---	2,985E+00	7,203E+00
15	SN-113	---	---	---	2,304E-01	5,656E-01
16	SB-125	---	---	---	4,794E-01	1,194E+00
17	I-129	---	---	---	3,529E+00	9,361E+00
18	CS-134	---	---	---	2,214E-01	5,482E-01
19	CS-137	1,570E+00	24,0	3,768E-01	1,951E-01	4,916E-01
20	CE-139	---	---	---	1,365E-01	3,310E-01
21	CE-144	---	---	---	8,969E-01	2,171E+00
22	EU-152	---	---	---	6,062E-01	1,479E+00
23	EU-154	---	---	---	9,275E-01	2,367E+00
24	HG-203	---	---	---	1,842E-01	4,444E-01
25	TL-208	---	---	---	1,824E-01	4,657E-01
26	PB-210	---	---	---	5,257E+00	1,320E+01
27	PB-212	---	---	---	2,969E-01	7,186E-01
28	PB-214	---	---	---	3,533E-01	8,752E-01
29	BI-212	---	---	---	2,959E+00	7,406E+00
30	BI-214	---	---	---	5,126E-01	1,257E+00
31	RA-223	---	---	---	3,039E+00	7,506E+00
32	RA-226	---	---	---	2,991E+00	7,268E+00
33	AC-228	---	---	---	9,010E-01	2,250E+00
34	TH-227	---	---	---	1,070E+00	2,745E+00
35	TH-230	---	---	---	3,434E+01	8,689E+01
36	TH-234	---	---	---	3,764E+00	1,006E+01
37	PA-234M	---	---	---	3,650E+01	8,947E+01
38	U-235	---	---	---	9,738E-01	2,348E+00
39	AM-241	---	---	---	4,736E-01	1,149E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 144

Auswertung des Gammaskopimetrischen: T2108029

Bezugsdatum:	04.08.2021 08:00:00	Detektor:	GMX2
Messdatum:	04.08.2021 17:30:00	Messzeit: (life)	4900.00 s
Alter der Probe:	34200 Sekunden	Messzeit: (real)	4901.07 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.196 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	04.08.2021 18:54:02	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725020/20210804/01 PW2017 21/1442	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	AMT/BRK Bq/l	Faktor (%)	Faktor (kD)	ERG Bq/l	NWZ Bq/l
1	BE-7	---	---	---	1,840E+00	4,562E+00
2	K-40	4,533E+02	20,7	9,361E+01	3,684E+00	9,351E+00
3	MN-54	---	---	---	2,821E-01	7,050E-01
4	CO-57	---	---	---	1,555E-01	3,717E-01
5	CO-60	---	---	---	3,296E-01	8,515E-01
6	ZN-65	---	---	---	9,184E-01	2,245E+00
7	SE-75	---	---	---	3,048E-01	7,374E-01
8	SR-85	---	---	---	2,461E-01	6,017E-01
9	Y-88	---	---	---	3,026E-01	8,247E-01
10	NB-94	---	---	---	2,791E-01	7,005E-01
11	RU-106	---	---	---	2,677E+00	6,634E+00
12	AG-108M	---	---	---	3,126E-01	7,853E-01
13	AG-110M	---	---	---	2,860E-01	7,151E-01
14	CD-109	---	---	---	3,746E+00	8,989E+00
15	SN-113	---	---	---	2,732E-01	6,715E-01
16	SB-125	---	---	---	6,706E-01	1,648E+00
17	I-129	---	---	---	3,841E+00	1,015E+01
18	CS-134	---	---	---	2,558E-01	6,356E-01
19	CS-137	1,917E+00	25,8	4,947E-01	2,781E-01	6,936E-01
20	CE-139	---	---	---	1,564E-01	3,775E-01
21	CE-144	---	---	---	9,790E-01	2,369E+00
22	EU-152	---	---	---	7,354E-01	1,786E+00
23	EU-154	---	---	---	1,373E+00	3,435E+00
24	HG-203	---	---	---	1,891E-01	4,595E-01
25	TL-208	---	---	---	3,471E-01	8,483E-01
26	PB-210	---	---	---	4,717E+00	1,195E+01
27	PB-212	---	---	---	3,571E-01	8,602E-01
28	PB-214	---	---	---	6,360E-01	1,527E+00
29	BI-212	---	---	---	4,655E+00	1,144E+01
30	BI-214	---	---	---	6,366E-01	1,561E+00
31	RA-226	---	---	---	4,615E+00	1,099E+01
32	AC-228	---	---	---	1,547E+00	3,777E+00
33	TH-227	---	---	---	1,394E+00	3,531E+00
34	TH-230	---	---	---	4,085E+01	1,031E+02
35	TH-234	---	---	---	4,779E+00	1,272E+01
36	PA-234M	---	---	---	4,734E+01	1,164E+02
37	U-235	---	---	---	1,170E+00	2,805E+00
38	AM-241	---	---	---	4,110E-01	1,010E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 145

Auswertung des Gammaskopimetrischen: T2110078

Bezugsdatum:	13.10.2021 08:00:00	Detektor:	GMX2
Messdatum:	13.10.2021 16:18:19	Messzeit: (life)	5000.00 s
Alter der Probe:	29899 Sekunden	Messzeit: (real)	5001.19 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.352 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	13.10.2021 17:50:26	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P725020/20211013/01 PW2053 21/1805	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Faktor [%]	Faktor [Bq]	EKG [keV]	MW/G [Bq]
1	BE-7	---	---	---	1,988E+00	4,886E+00
2	K-40	4,686E+02	20,6	9,668E+01	3,458E+00	8,819E+00
3	MN-54	---	---	---	2,618E-01	6,577E-01
4	CO-57	---	---	---	1,444E-01	3,461E-01
5	CO-60	---	---	---	3,324E-01	8,566E-01
6	ZN-65	---	---	---	9,892E-01	2,401E+00
7	SE-75	---	---	---	2,623E-01	6,402E-01
8	SR-85	---	---	---	2,607E-01	6,335E-01
9	Y-88	---	---	---	1,824E-01	5,504E-01
10	NB-94	---	---	---	2,735E-01	6,865E-01
11	RU-106	---	---	---	2,900E+00	7,127E+00
12	AG-108M	---	---	---	3,309E-01	8,252E-01
13	AG-110M	---	---	---	2,672E-01	6,712E-01
14	CD-109	---	---	---	3,555E+00	8,543E+00
15	SN-113	---	---	---	2,985E-01	7,274E-01
16	SB-125	---	---	---	6,651E-01	1,633E+00
17	I-129	---	---	---	3,764E+00	9,947E+00
18	CS-134	---	---	---	2,828E-01	6,953E-01
19	CS-137	1,737E+00	24,5	4,256E-01	2,121E-01	5,433E-01
20	CE-139	---	---	---	1,596E-01	3,844E-01
21	CE-144	---	---	---	1,083E+00	2,602E+00
22	EU-152	---	---	---	6,774E-01	1,653E+00
23	EU-154	---	---	---	1,471E+00	3,648E+00
24	HG-203	---	---	---	1,925E-01	4,667E-01
25	TL-208	---	---	---	3,797E-01	9,206E-01
26	PB-210	---	---	---	5,444E+00	1,369E+01
27	PB-212	---	---	---	4,111E-01	9,812E-01
28	PB-214	---	---	---	5,575E-01	1,348E+00
29	BI-212	---	---	---	3,720E+00	9,311E+00
30	BI-214	---	---	---	7,575E-01	1,831E+00
31	RA-226	---	---	---	3,942E+00	9,454E+00
32	AC-228	---	---	---	1,487E+00	3,637E+00
33	TH-227	---	---	---	1,349E+00	3,421E+00
34	TH-230	---	---	---	4,116E+01	1,038E+02
35	TH-234	---	---	---	4,419E+00	1,179E+01
36	PA-234M	---	---	---	4,769E+01	1,170E+02
37	U-235	---	---	---	1,230E+00	2,939E+00
38	AM-241	---	---	---	4,262E-01	1,044E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 146

10 Messergebnisse Laugenmessstelle P750006

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 147

Auswertung des Gammaskopimetrischen: T2101112

Bezugsdatum:	21.01.2021 07:55:00	Detektor:	GMX2
Messdatum:	21.01.2021 12:45:00	Messzeit: (life)	5400.00 s
Alter der Probe:	17400 Sekunden	Messzeit: (real)	5401.15 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.054 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	21.01.2021 14:39:30	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750006/20210121/01 PW1883 21/0103	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Artwkt/Bq	Faktor (%)	Fehler (Bq)	PKG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	1,774E+00	4,373E+00
2	K-40	4,247E+02	20,6	8,766E+01	3,165E+00	8,085E+00
3	MN-54	---	---	---	2,850E-01	7,049E-01
4	CO-57	---	---	---	1,250E-01	3,005E-01
5	CO-60	---	---	---	3,322E-01	8,474E-01
6	ZN-65	---	---	---	7,109E-01	1,761E+00
7	SE-75	---	---	---	2,951E-01	7,110E-01
8	SR-85	---	---	---	2,205E-01	5,395E-01
9	Y-88	---	---	---	1,688E-01	5,092E-01
10	NB-94	---	---	---	2,719E-01	6,777E-01
11	RU-106	---	---	---	2,216E+00	5,537E+00
12	AG-108M	---	---	---	2,689E-01	6,793E-01
13	AG-110M	---	---	---	2,885E-01	7,145E-01
14	CD-109	---	---	---	3,426E+00	8,218E+00
15	SN-113	---	---	---	2,943E-01	7,140E-01
16	SB-125	---	---	---	6,155E-01	1,511E+00
17	I-129	---	---	---	2,973E+00	7,925E+00
18	CS-134	---	---	---	2,284E-01	5,683E-01
19	CS-137	---	---	---	3,163E-01	7,733E-01
20	CE-139	---	---	---	1,526E-01	3,667E-01
21	CE-144	---	---	---	1,034E+00	2,481E+00
22	EU-152	---	---	---	6,435E-01	1,567E+00
23	EU-154	---	---	---	1,205E+00	3,023E+00
24	HG-203	---	---	---	1,850E-01	4,472E-01
25	TL-208	---	---	---	2,769E-01	6,838E-01
26	PB-210	---	---	---	5,196E+00	1,305E+01
27	PB-212	---	---	---	3,122E-01	7,538E-01
28	PB-214	---	---	---	4,648E-01	1,132E+00
29	BI-212	---	---	---	3,511E+00	8,772E+00
30	BI-214	---	---	---	7,004E-01	1,693E+00
31	RA-226	---	---	---	3,829E+00	9,158E+00
32	AC-228	---	---	---	1,392E+00	3,402E+00
33	TH-227	---	---	---	1,192E+00	3,031E+00
34	TH-230	---	---	---	4,054E+01	1,019E+02
35	TH-234	---	---	---	4,340E+00	1,155E+01
36	PA-234M	---	---	---	4,578E+01	1,120E+02
37	U-235	---	---	---	1,044E+00	2,506E+00
38	AM-241	---	---	---	4,093E-01	1,001E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 148

Auswertung des Gammaskopimetrischen: T2102133

Bezugsdatum:	25.02.2021 07:40:00	Detektor:	GMX2
Messdatum:	25.02.2021 12:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	15600 Sekunden	Messzeit: (real)	3600.75 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.021 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	25.02.2021 13:08:02	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750006/20210225/01 PW1897 21/0262	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AR (Bq/l)	Faktor (%)	IFaktor (Bq)	ERG (Bq/l)	MVE (Bq/l)
1	BE-7	---	---	---	2,496E+00	6,189E+00
2	K-40	4,517E+02	20,7	9,353E+01	3,362E+00	9,000E+00
3	MN-54	---	---	---	2,849E-01	7,362E-01
4	CO-57	---	---	---	1,576E-01	3,831E-01
5	CO-60	---	---	---	4,068E-01	1,065E+00
6	ZN-65	---	---	---	8,453E-01	2,143E+00
7	SE-75	---	---	---	3,451E-01	8,457E-01
8	SR-85	---	---	---	2,031E-01	5,214E-01
9	Y-88	---	---	---	2,531E-01	7,636E-01
10	NB-94	---	---	---	3,246E-01	8,288E-01
11	RU-106	---	---	---	3,267E+00	8,178E+00
12	AG-108M	---	---	---	4,034E-01	1,019E+00
13	AG-110M	---	---	---	3,383E-01	8,581E-01
14	CD-109	---	---	---	4,035E+00	9,803E+00
15	SN-113	---	---	---	3,067E-01	7,670E-01
16	SB-125	---	---	---	6,682E-01	1,691E+00
17	I-129	---	---	---	4,618E+00	1,228E+01
18	CS-134	---	---	---	2,967E-01	7,489E-01
19	CS-137	---	---	---	3,392E-01	8,552E-01
20	CE-139	---	---	---	1,643E-01	4,037E-01
21	CE-144	---	---	---	1,363E+00	3,293E+00
22	EU-152	---	---	---	7,590E-01	1,885E+00
23	EU-154	---	---	---	1,776E+00	4,464E+00
24	HG-203	---	---	---	2,009E-01	4,979E-01
25	TL-208	---	---	---	3,742E-01	9,328E-01
26	PB-210	---	---	---	6,495E+00	1,645E+01
27	PB-212	---	---	---	4,526E-01	1,095E+00
28	PB-214	---	---	---	7,011E-01	1,708E+00
29	BI-212	---	---	---	4,123E+00	1,058E+01
30	BI-214	---	---	---	6,640E-01	1,667E+00
31	RA-226	---	---	---	4,386E+00	1,066E+01
32	AC-228	---	---	---	1,535E+00	3,854E+00
33	TH-227	---	---	---	1,585E+00	4,063E+00
34	TH-230	---	---	---	5,063E+01	1,284E+02
35	TH-234	---	---	---	5,193E+00	1,397E+01
36	PA-234M	---	---	---	4,246E+01	1,088E+02
37	U-235	---	---	---	1,383E+00	3,344E+00
38	AM-241	---	---	---	4,975E-01	1,231E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 149

Auswertung des Gammaskopimetrischen: T2107266

Bezugsdatum:	22.07.2021 07:30:00	Detektor:	GMX2
Messdatum:	22.07.2021 13:30:00	Messzeit: (life)	5400.00 s
Alter der Probe:	21600 Sekunden	Messzeit: (real)	5401.02 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	4.411 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	22.07.2021 15:21:34	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750006/20210722/01 PW2008 21/1376	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Ri	Isotop	Aktivität [Bq]	Fehler (%)	Fehler [Bq]	BKG [Bq]	INWG [Bq]
1	BE-7	---	---	---	1,549E+00	3,867E+00
2	K-40	3,571E+02	20,7	7,385E+01	3,601E+00	9,068E+00
3	MN-54	---	---	---	2,468E-01	6,190E-01
4	CO-57	---	---	---	1,296E-01	3,111E-01
5	CO-60	---	---	---	2,614E-01	6,875E-01
6	ZN-65	---	---	---	6,798E-01	1,691E+00
7	SE-75	---	---	---	2,400E-01	5,862E-01
8	SR-85	---	---	---	2,030E-01	5,000E-01
9	Y-88	---	---	---	1,688E-01	5,094E-01
10	NB-94	---	---	---	2,531E-01	6,354E-01
11	RU-106	---	---	---	1,940E+00	4,914E+00
12	AG-108M	---	---	---	2,882E-01	7,229E-01
13	AG-110M	---	---	---	2,307E-01	5,836E-01
14	CD-109	---	---	---	3,043E+00	7,342E+00
15	SN-113	---	---	---	2,572E-01	6,302E-01
16	SB-125	---	---	---	5,373E-01	1,335E+00
17	I-129	---	---	---	3,147E+00	8,361E+00
18	CS-134	---	---	---	2,548E-01	6,280E-01
19	CS-137	---	---	---	2,625E-01	6,522E-01
20	CE-139	---	---	---	1,435E-01	3,461E-01
21	CE-144	---	---	---	9,390E-01	2,265E+00
22	EU-152	---	---	---	5,513E-01	1,359E+00
23	EU-154	---	---	---	1,304E+00	3,249E+00
24	HG-203	---	---	---	1,600E-01	3,908E-01
25	TL-208	---	---	---	2,719E-01	6,725E-01
26	PB-210	---	---	---	4,412E+00	1,116E+01
27	PB-212	---	---	---	3,536E-01	8,474E-01
28	PB-214	---	---	---	4,557E-01	1,112E+00
29	BI-212	---	---	---	3,562E+00	8,886E+00
30	BI-214	---	---	---	5,893E-01	1,443E+00
31	RA-226	---	---	---	3,661E+00	8,779E+00
32	AC-228	---	---	---	1,270E+00	3,127E+00
33	TH-227	---	---	---	1,000E+00	2,574E+00
34	TH-230	---	---	---	3,781E+01	9,537E+01
35	TH-234	---	---	---	4,201E+00	1,119E+01
36	PA-234M	---	---	---	4,019E+01	9,936E+01
37	U-235	---	---	---	1,033E+00	2,482E+00
38	AM-241	---	---	---	3,814E-01	9,362E-01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 150
NNA	NNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2108113

Bezugsdatum: 19.08.2021 07:45:00	Detektor: GMX6
Messdatum: 19.08.2021 20:30:00	Messzeit: (life) 3600.00 s
Alter der Probe: 45900 Sekunden	Messzeit: (real) 3601.16 s
Probenmasse/Volumen: 1	Totzeit: 0.03 %
Nuklidlabelle: RS6_REF1.ISO	Zählrate: 5.240 cps
Ausbeutekurve: RS6REF_1.EFF	Fensterbreite:
Absorbtiionskurve: RS6_L01.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2105T6.NUL	Halbwertsbreite: 0.67 keV - 2.14 keV
Auswertedatum: 20.08.2021 07:57:32	Peaksuch-Parameter: 2.50 / 2.50 (15 keV - 2020 keV)
Kommentar: P750006/20210819/01 PW2030 21/1519	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Genauigkeit (%)	Fehler (Bq)	KW/G (Bq)
1	BE-7	---	---	---	1,316E+00
2	K-40	3,679E+02	20,7	7,613E+01	1,747E+00
3	MN-54	---	---	---	2,020E-01
4	CO-57	---	---	---	1,012E-01
5	CO-60	---	---	---	2,563E-01
6	ZN-65	---	---	---	5,604E-01
7	SE-75	---	---	---	2,212E-01
8	SR-85	---	---	---	1,461E-01
9	Y-88	---	---	---	1,336E-01
10	NB-94	---	---	---	1,841E-01
11	RU-106	---	---	---	1,848E+00
12	AG-108M	---	---	---	2,623E-01
13	AG-110M	---	---	---	2,339E-01
14	CD-109	---	---	---	2,548E+00
15	SN-113	---	---	---	2,009E-01
16	SB-125	---	---	---	4,875E-01
17	I-129	---	---	---	3,317E+00
18	CS-134	---	---	---	1,857E-01
19	CS-137	---	---	---	1,982E-01
20	CE-139	---	---	---	1,356E-01
21	CE-144	---	---	---	8,424E-01
22	EU-152	---	---	---	4,368E-01
23	EU-154	---	---	---	1,021E+00
24	HG-203	---	---	---	1,288E-01
25	TL-208	---	---	---	2,100E-01
26	PB-210	---	---	---	4,383E+00
27	PB-212	---	---	---	2,957E-01
28	PB-214	---	---	---	3,378E-01
29	BI-212	---	---	---	2,959E+00
30	BI-214	---	---	---	3,956E-01
31	RA-223	---	---	---	3,264E+00
32	RA-226	---	---	---	2,766E+00
33	AC-228	---	---	---	7,847E-01
34	TH-227	---	---	---	9,575E-01
35	TH-230	---	---	---	3,413E+01
36	TH-234	---	---	---	3,243E+00
37	PA-234M	---	---	---	2,727E+01
38	U-235	---	---	---	8,705E-01
39	AM-241	---	---	---	3,710E-01

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 151

Auswertung des Gammaskopmetrischen: T2109089

Bezugsdatum:	16.09.2021 07:30:00	Detektor:	GMX4
Messdatum:	16.09.2021 12:20:00	Messzeit: (life)	3600.00 s
Alter der Probe:	17400 Sekunden	Messzeit: (real)	3600.63 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	5.669 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.09.2021 13:21:07	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750006/20210916/01 PW2042 21/1654	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Erwartete Aktivität [Bq]	Erwartete Rate [cps]	Erwartete Rate [Bq]	Erwartete Rate [cps]	Erwartete Rate [cps]
1	BE-7	---	---	---	1,585E+00	3,924E+00
2	K-40	4,314E+02	20,7	8,920E+01	1,938E+00	5,178E+00
3	MN-54	---	---	---	2,036E-01	5,145E-01
4	CO-57	---	---	---	1,270E-01	3,061E-01
5	CO-60	---	---	---	3,353E-01	8,431E-01
6	ZN-65	---	---	---	7,273E-01	1,777E+00
7	SE-75	---	---	---	2,568E-01	6,270E-01
8	SR-85	---	---	---	1,959E-01	4,810E-01
9	Y-88	---	---	---	1,898E-01	5,388E-01
10	NB-94	---	---	---	2,664E-01	6,578E-01
11	RU-106	---	---	---	2,127E+00	5,305E+00
12	AG-108M	---	---	---	3,130E-01	7,760E-01
13	AG-110M	---	---	---	2,584E-01	6,446E-01
14	CD-109	---	---	---	3,328E+00	7,992E+00
15	SN-113	---	---	---	2,397E-01	5,887E-01
16	SB-125	---	---	---	4,786E-01	1,198E+00
17	I-129	---	---	---	4,152E+00	1,065E+01
18	CS-134	---	---	---	2,138E-01	5,334E-01
19	CS-137	---	---	---	2,564E-01	6,328E-01
20	CE-139	---	---	---	1,463E-01	3,540E-01
21	CE-144	---	---	---	9,859E-01	2,378E+00
22	EU-152	---	---	---	5,502E-01	1,357E+00
23	EU-154	---	---	---	1,323E+00	3,276E+00
24	HG-203	---	---	---	1,608E-01	3,924E-01
25	TL-208	---	---	---	2,362E-01	5,901E-01
26	PB-210	---	---	---	4,990E+00	1,235E+01
27	PB-212	---	---	---	2,871E-01	6,976E-01
28	PB-214	---	---	---	3,967E-01	9,763E-01
29	BI-212	---	---	---	3,463E+00	8,583E+00
30	BI-214	---	---	---	5,322E-01	1,307E+00
31	RA-223	---	---	---	3,226E+00	7,950E+00
32	RA-226	---	---	---	3,402E+00	8,209E+00
33	AC-228	---	---	---	1,038E+00	2,573E+00
34	TH-227	---	---	---	9,969E-01	2,575E+00
35	TH-230	---	---	---	4,036E+01	1,009E+02
36	TH-234	---	---	---	4,512E+00	1,189E+01
37	PA-234M	---	---	---	3,159E+01	7,889E+01
38	U-235	---	---	---	1,102E+00	2,644E+00
39	AM-241	---	---	---	4,139E-01	1,003E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 152

Auswertung des Gammaskopimetrischen: T2110062

Bezugsdatum:	12.10.2021 08:50:00	Detektor:	GMX4
Messdatum:	12.10.2021 12:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	13200 Sekunden	Messzeit: (real)	3600.61 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	5.536 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.10.2021 14:58:33	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750006/20211012/01 21/1793	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität [Bq]	Fehler (%)	Fehler [Bq]	EKT [keV]	NWA [Bq/l]
1	BE-7	---	---	---	1,459E+00	3,640E+00
2	K-40	4,212E+02	20,7	8,710E+01	1,646E+00	4,520E+00
3	MN-54	---	---	---	2,350E-01	5,854E-01
4	CO-57	---	---	---	1,307E-01	3,143E-01
5	CO-60	---	---	---	3,154E-01	7,980E-01
6	ZN-65	---	---	---	6,748E-01	1,659E+00
7	SE-75	---	---	---	2,592E-01	6,324E-01
8	SR-85	---	---	---	2,207E-01	5,370E-01
9	Y-88	---	---	---	1,469E-01	4,419E-01
10	NB-94	---	---	---	2,287E-01	5,728E-01
11	RU-106	---	---	---	2,059E+00	5,152E+00
12	AG-108M	---	---	---	3,086E-01	7,661E-01
13	AG-110M	---	---	---	2,460E-01	6,165E-01
14	CD-109	---	---	---	3,312E+00	7,957E+00
15	SN-113	---	---	---	2,249E-01	5,554E-01
16	SB-125	---	---	---	4,954E-01	1,236E+00
17	I-129	---	---	---	4,090E+00	1,049E+01
18	CS-134	---	---	---	1,812E-01	4,599E-01
19	CS-137	---	---	---	2,230E-01	5,576E-01
20	CE-139	---	---	---	1,463E-01	3,540E-01
21	CE-144	---	---	---	9,245E-01	2,239E+00
22	EU-152	---	---	---	5,155E-01	1,279E+00
23	EU-154	---	---	---	1,377E+00	3,398E+00
24	HG-203	---	---	---	1,665E-01	4,052E-01
25	TL-208	---	---	---	2,127E-01	5,368E-01
26	PB-210	---	---	---	4,711E+00	1,169E+01
27	PB-212	---	---	---	2,946E-01	7,145E-01
28	PB-214	---	---	---	4,196E-01	1,028E+00
29	BI-212	---	---	---	3,132E+00	7,838E+00
30	BI-214	---	---	---	4,950E-01	1,223E+00
31	RA-223	---	---	---	3,587E+00	8,765E+00
32	RA-226	---	---	---	3,309E+00	7,997E+00
33	AC-228	---	---	---	1,081E+00	2,671E+00
34	TH-227	---	---	---	1,015E+00	2,618E+00
35	TH-230	---	---	---	3,955E+01	9,897E+01
36	TH-234	---	---	---	4,108E+00	1,087E+01
37	PA-234M	---	---	---	3,370E+01	8,365E+01
38	U-235	---	---	---	9,385E-01	2,274E+00
39	AM-241	---	---	---	4,332E-01	1,048E+00

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 153

Auswertung des Gammaskopimetrischen: T2111170

Bezugsdatum:	25.11.2021 07:35:00	Detektor:	GMX2
Messdatum:	25.11.2021 17:05:00	Messzeit: (life)	5400.00 s
Alter der Probe:	34200 Sekunden	Messzeit: (real)	5401.14 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	5.033 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	25.11.2021 18:44:06	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750006/20211125/01 PW2075 21/2040	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AK (W/F)	Gamma	Fehler	SIG	NWC
		ROI	(%)	(%)	(%)	(ROI)
1	BE-7	---	---	---	1,715E+00	4,240E+00
2	K-40	4,049E+02	20,6	8,359E+01	3,278E+00	8,338E+00
3	MN-54	---	---	---	3,117E-01	7,653E-01
4	CO-57	---	---	---	1,390E-01	3,325E-01
5	CO-60	---	---	---	3,973E-01	9,943E-01
6	ZN-65	---	---	---	8,506E-01	2,076E+00
7	SE-75	---	---	---	2,727E-01	6,603E-01
8	SR-85	---	---	---	2,248E-01	5,493E-01
9	Y-88	---	---	---	1,690E-01	5,098E-01
10	NB-94	---	---	---	3,219E-01	7,903E-01
11	RU-106	---	---	---	2,290E+00	5,706E+00
12	AG-108M	---	---	---	3,550E-01	8,742E-01
13	AG-110M	---	---	---	2,358E-01	5,954E-01
14	CD-109	---	---	---	3,482E+00	8,345E+00
15	SN-113	---	---	---	2,448E-01	6,025E-01
16	SB-125	---	---	---	5,935E-01	1,461E+00
17	I-129	---	---	---	3,264E+00	8,656E+00
18	CS-134	---	---	---	2,429E-01	6,011E-01
19	CS-137	---	---	---	2,405E-01	6,026E-01
20	CE-139	---	---	---	1,552E-01	3,726E-01
21	CE-144	---	---	---	9,979E-01	2,399E+00
22	EU-152	---	---	---	6,331E-01	1,543E+00
23	EU-154	---	---	---	1,502E+00	3,694E+00
24	HG-203	---	---	---	2,009E-01	4,832E-01
25	TL-208	---	---	---	2,973E-01	7,299E-01
26	PB-210	---	---	---	4,902E+00	1,234E+01
27	PB-212	---	---	---	3,620E-01	8,665E-01
28	PB-214	---	---	---	4,979E-01	1,207E+00
29	BI-212	---	---	---	3,985E+00	9,839E+00
30	BI-214	---	---	---	5,485E-01	1,351E+00
31	RA-226	---	---	---	3,759E+00	9,002E+00
32	AC-228	---	---	---	1,289E+00	3,169E+00
33	TH-227	---	---	---	1,226E+00	3,113E+00
34	TH-230	---	---	---	3,801E+01	9,584E+01
35	TH-234	---	---	---	4,385E+00	1,166E+01
36	PA-234M	---	---	---	4,093E+01	1,010E+02
37	U-235	---	---	---	1,075E+00	2,576E+00
38	AM-241	---	---	---	4,431E-01	1,080E+00

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 154

Auswertung des Gammaskpektrums: T2112115

Bezugsdatum:	22.12.2021 07:30:00	Detektor:	GMX6
Messdatum:	22.12.2021 18:20:00	Messzeit: (life)	20000.00 s
Alter der Probe:	39000 Sekunden	Messzeit: (real)	20004.14 s
Probenmasse/Volumen:	0,3	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	2.824 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L00.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2110T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	23.12.2021 07:37:33	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750006/20211222/01 PW2088 21/2165	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	aktivität [Bq/l]	Radio- [Bq]	Radio- [Bq]	ETG [Bq/l]	RWTF [%]
1	BE-7	---	---	---	1,424E+00	3,408E+00
2	K-40	4,175E+02	20,6	8,605E+01	2,167E+00	5,332E+00
3	MN-54	---	---	---	2,001E-01	4,823E-01
4	CO-57	---	---	---	1,149E-01	2,696E-01
5	CO-60	---	---	---	2,301E-01	5,672E-01
6	ZN-65	---	---	---	5,187E-01	1,246E+00
7	SE-75	---	---	---	2,462E-01	5,837E-01
8	SR-85	---	---	---	1,662E-01	3,969E-01
9	Y-88	---	---	---	1,975E-01	5,067E-01
10	NB-94	---	---	---	2,164E-01	5,198E-01
11	RU-106	---	---	---	1,889E+00	4,551E+00
12	AG-108M	---	---	---	2,385E-01	5,783E-01
13	AG-110M	---	---	---	2,071E-01	5,024E-01
14	CD-109	---	---	---	2,885E+00	6,752E+00
15	SN-113	---	---	---	2,135E-01	5,085E-01
16	SB-125	---	---	---	4,859E-01	1,163E+00
17	I-129	---	---	---	3,167E+00	7,542E+00
18	CS-134	---	---	---	2,010E-01	4,826E-01
19	CS-137	---	---	---	2,054E-01	4,937E-01
20	CE-139	---	---	---	1,359E-01	3,201E-01
21	CE-144	---	---	---	9,499E-01	2,227E+00
22	EU-152	---	---	---	5,586E-01	1,326E+00
23	EU-154	---	---	---	9,895E-01	2,398E+00
24	HG-203	---	---	---	1,647E-01	3,884E-01
25	TL-208	---	---	---	2,144E-01	5,164E-01
26	PB-210	---	---	---	4,131E+00	9,761E+00
27	PB-212	---	---	---	3,135E-01	7,356E-01
28	PB-214	---	---	---	3,931E-01	9,327E-01
29	BI-212	---	---	---	3,160E+00	7,561E+00
30	BI-214	---	---	---	4,755E-01	1,133E+00
31	RA-223	---	---	---	3,023E+00	7,203E+00
32	RA-226	---	---	---	3,026E+00	7,128E+00
33	AC-228	---	---	---	8,338E-01	2,011E+00
34	TH-227	---	---	---	9,525E-01	2,384E+00
35	TH-230	---	---	---	3,197E+01	7,801E+01
36	TH-234	---	---	---	3,307E+00	8,514E+00
37	PA-234M	---	---	---	2,776E+01	6,686E+01
38	U-235	---	---	---	9,000E-01	2,116E+00
39	AM-241	---	---	---	3,597E-01	8,448E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 155

11 Messergebnisse Laugenmessstelle P750039

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 156

Auswertung des Gammaskopimetrischen: T2101088

Bezugsdatum:	14.01.2021 09:10:00	Detektor:	GMX4
Messdatum:	18.01.2021 17:35:00	Messzeit: (life)	3600.00 s
Alter der Probe:	4.35 Tage	Messzeit: (real)	3600.32 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	1.952 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	18.01.2021 18:41:41	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210114/01 PW1879 21/0067	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Faktor (%)	Ergebnis Bq/l	BKZ Bq/l	NWZ Bq/l
1	BE-7	---	---	---	1,051E+00	2,740E+00
2	K-40	2,746E+01	23,1	6,331E+00	1,757E+00	4,769E+00
3	MN-54	---	---	---	1,454E-01	3,838E-01
4	CO-57	---	---	---	7,518E-02	1,888E-01
5	CO-60	---	---	---	1,132E-01	3,415E-01
6	ZN-65	---	---	---	3,179E-01	8,562E-01
7	SE-75	---	---	---	1,931E-01	4,838E-01
8	SR-85	---	---	---	1,721E-01	4,292E-01
9	Y-88	---	---	---	1,478E-01	4,468E-01
10	NB-94	---	---	---	9,669E-02	2,754E-01
11	RU-106	---	---	---	1,199E+00	3,212E+00
12	AG-108M	---	---	---	1,651E-01	4,412E-01
13	AG-110M	---	---	---	1,534E-01	4,077E-01
14	CD-109	---	---	---	2,114E+00	5,238E+00
15	SN-113	---	---	---	1,739E-01	4,416E-01
16	SB-125	---	---	---	3,144E-01	8,276E-01
17	I-129	---	---	---	2,226E+00	5,969E+00
18	CS-134	---	---	---	1,259E-01	3,350E-01
19	CS-137	---	---	---	1,193E-01	3,240E-01
20	CE-139	---	---	---	7,826E-02	2,003E-01
21	CE-144	---	---	---	6,743E-01	1,674E+00
22	EU-152	---	---	---	3,441E-01	8,917E-01
23	EU-154	---	---	---	6,983E-01	1,864E+00
24	HG-203	---	---	---	1,348E-01	3,356E-01
25	TL-208	---	---	---	1,571E-01	4,113E-01
26	PB-210	---	---	---	2,580E+00	6,685E+00
27	PB-212	---	---	---	1,732E-01	4,405E-01
28	PB-214	---	---	---	3,237E-01	8,115E-01
29	BI-212	---	---	---	1,810E+00	4,856E+00
30	BI-214	---	---	---	4,244E-01	1,064E+00
31	RA-223	---	---	---	2,170E+00	5,568E+00
32	RA-226	---	---	---	2,146E+00	5,369E+00
33	AC-228	---	---	---	6,799E-01	1,765E+00
34	TH-227	---	---	---	7,753E-01	2,046E+00
35	TH-230	---	---	---	2,620E+01	6,720E+01
36	TH-234	---	---	---	2,076E+00	5,753E+00
37	PA-234M	---	---	---	1,857E+01	4,950E+01
38	U-235	---	---	---	7,354E-01	1,814E+00
39	AM-241	---	---	---	2,047E-01	5,229E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 157

Auswertung des Gammaskopimetrischen: T2102097

Bezugsdatum:	18.02.2021 09:45:00	Detektor:	GMX4
Messdatum:	19.02.2021 15:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	1.22 Tage	Messzeit: (real)	3600.31 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	1.885 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.02.2021 16:08:35	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210218/01 PW1892 21/0216	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq/l]	Fraktion [%]	Fraktion [Bq/l]	FRS [Bq/l]	NWT [Bq/l]
1	BE-7	---	---	---	1,083E+00	2,797E+00
2	K-40	2,153E+01	23,7	5,093E+00	1,360E+00	3,873E+00
3	MN-54	---	---	---	1,558E-01	4,070E-01
4	CO-57	---	---	---	8,686E-02	2,151E-01
5	CO-60	---	---	---	1,740E-01	4,788E-01
6	ZN-65	---	---	---	3,617E-01	9,536E-01
7	SE-75	---	---	---	1,718E-01	4,346E-01
8	SR-85	---	---	---	1,065E-01	2,799E-01
9	Y-88	---	---	---	1,448E-01	4,378E-01
10	NB-94	---	---	---	1,222E-01	3,328E-01
11	RU-106	---	---	---	1,358E+00	3,568E+00
12	AG-108M	---	---	---	1,565E-01	4,217E-01
13	AG-110M	---	---	---	1,449E-01	3,879E-01
14	CD-109	---	---	---	2,054E+00	5,100E+00
15	SN-113	---	---	---	1,897E-01	4,763E-01
16	SB-125	---	---	---	2,862E-01	7,636E-01
17	I-129	---	---	---	1,937E+00	5,268E+00
18	CS-134	---	---	---	1,364E-01	3,585E-01
19	CS-137	---	---	---	1,333E-01	3,554E-01
20	CE-139	---	---	---	9,354E-02	2,346E-01
21	CE-144	---	---	---	5,202E-01	1,324E+00
22	EU-152	---	---	---	3,745E-01	9,604E-01
23	EU-154	---	---	---	5,834E-01	1,604E+00
24	HG-203	---	---	---	1,186E-01	2,977E-01
25	TL-208	---	---	---	1,259E-01	3,407E-01
26	PB-210	---	---	---	2,747E+00	7,077E+00
27	PB-212	---	---	---	2,011E-01	5,034E-01
28	PB-214	---	---	---	3,056E-01	7,707E-01
29	BI-212	---	---	---	1,705E+00	4,619E+00
30	BI-214	---	---	---	3,314E-01	8,539E-01
31	RA-223	---	---	---	2,385E+00	6,053E+00
32	RA-226	---	---	---	2,387E+00	5,914E+00
33	AC-228	---	---	---	3,508E-01	1,023E+00
34	TH-227	---	---	---	6,748E-01	1,806E+00
35	TH-230	---	---	---	2,374E+01	6,135E+01
36	TH-234	---	---	---	2,039E+00	5,662E+00
37	PA-234M	---	---	---	1,855E+01	4,946E+01
38	U-235	---	---	---	6,794E-01	1,688E+00
39	AM-241	---	---	---	2,245E-01	5,684E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 158

Auswertung des Gammaskopimetrischen: T2103134

Bezugsdatum:	18.03.2021 10:15:00	Detektor:	GMX2
Messdatum:	22.03.2021 11:55:00	Messzeit: (life)	3600.00 s
Alter der Probe:	4.07 Tage	Messzeit: (real)	3600.42 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.425 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	22.03.2021 13:28:04	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210318/01 PW1909 21/0385	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Rel. Irr. [%]	Th. Irr. [Bq]	EKT [keV]	NWA [s]
1	BE-7	---	---	---	1,882E+00	4,832E+00
2	K-40	2,523E+01	26,6	6,723E+00	4,017E+00	1,048E+01
3	MN-54	---	---	---	1,901E-01	5,232E-01
4	CO-57	---	---	---	1,103E-01	2,758E-01
5	CO-60	---	---	---	2,178E-01	6,382E-01
6	ZN-65	---	---	---	3,644E-01	1,062E+00
7	SE-75	---	---	---	1,858E-01	4,864E-01
8	SR-85	---	---	---	2,491E-01	6,278E-01
9	Y-88	---	---	---	2,596E-01	7,832E-01
10	NB-94	---	---	---	1,970E-01	5,413E-01
11	RU-106	---	---	---	2,027E+00	5,379E+00
12	AG-108M	---	---	---	3,106E-01	8,088E-01
13	AG-110M	---	---	---	2,728E-01	7,110E-01
14	CD-109	---	---	---	3,149E+00	7,782E+00
15	SN-113	---	---	---	2,517E-01	6,448E-01
16	SB-125	---	---	---	3,194E-01	9,040E-01
17	I-129	---	---	---	2,543E+00	7,083E+00
18	CS-134	---	---	---	1,719E-01	4,675E-01
19	CS-137	---	---	---	2,647E-01	6,873E-01
20	CE-139	---	---	---	1,624E-01	3,999E-01
21	CE-144	---	---	---	8,295E-01	2,084E+00
22	EU-152	---	---	---	5,563E-01	1,427E+00
23	EU-154	---	---	---	1,385E+00	3,582E+00
24	HG-203	---	---	---	1,832E-01	4,606E-01
25	TL-208	---	---	---	2,863E-01	7,344E-01
26	PB-210	---	---	---	4,209E+00	1,096E+01
27	PB-212	---	---	---	3,076E-01	7,675E-01
28	PB-214	---	---	---	4,741E-01	1,195E+00
29	BI-212	---	---	---	2,838E+00	7,681E+00
30	BI-214	---	---	---	5,700E-01	1,455E+00
31	RA-226	---	---	---	3,761E+00	9,249E+00
32	AC-228	---	---	---	9,464E-01	2,526E+00
33	TH-227	---	---	---	1,179E+00	3,093E+00
34	TH-230	---	---	---	3,458E+01	8,978E+01
35	TH-234	---	---	---	4,120E+00	1,123E+01
36	PA-234M	---	---	---	3,096E+01	8,288E+01
37	U-235	---	---	---	1,008E+00	2,494E+00
38	AM-241	---	---	---	3,253E-01	8,296E-01

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 159

Auswertung des Gammaskopmetrischen: T2104074

Bezugsdatum:	15.04.2021 09:35:00	Detektor:	GMX2
Messdatum:	19.04.2021 09:15:00	Messzeit: (life)	5400.00 s
Alter der Probe:	3.99 Tage	Messzeit: (real)	5400.63 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.372 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	19.04.2021 11:29:54	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210415/01 PW1924 21/0526	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Wirkungsfaktor (eff)	Anteil (%)	Kontrastfaktor (Kf)	ERG (Bq)	NWA (Lq)
1	BE-7	---	---	---	1,379E+00	3,502E+00
2	K-40	3,681E+01	23,1	8,488E+00	3,203E+00	8,169E+00
3	MN-54	---	---	---	1,916E-01	4,950E-01
4	CO-57	---	---	---	1,003E-01	2,447E-01
5	CO-60	---	---	---	1,920E-01	5,312E-01
6	ZN-65	---	---	---	2,975E-01	8,310E-01
7	SE-75	---	---	---	1,983E-01	4,929E-01
8	SR-85	---	---	---	2,117E-01	5,213E-01
9	Y-88	---	---	---	2,221E-01	6,328E-01
10	NB-94	---	---	---	1,923E-01	4,982E-01
11	RU-106	---	---	---	1,411E+00	3,722E+00
12	AG-108M	---	---	---	2,315E-01	5,945E-01
13	AG-110M	---	---	---	1,882E-01	4,883E-01
14	CD-109	---	---	---	2,169E+00	5,349E+00
15	SN-113	---	---	---	1,854E-01	4,696E-01
16	SB-125	---	---	---	4,040E-01	1,034E+00
17	I-129	---	---	---	2,064E+00	5,645E+00
18	CS-134	---	---	---	2,007E-01	5,059E-01
19	CS-137	---	---	---	1,764E-01	4,582E-01
20	CE-139	---	---	---	1,105E-01	2,718E-01
21	CE-144	---	---	---	7,248E-01	1,780E+00
22	EU-152	---	---	---	5,301E-01	1,311E+00
23	EU-154	---	---	---	1,001E+00	2,564E+00
24	HG-203	---	---	---	1,435E-01	3,553E-01
25	TL-208	---	---	---	2,072E-01	5,264E-01
26	PB-210	---	---	---	3,282E+00	8,448E+00
27	PB-212	---	---	---	2,402E-01	5,910E-01
28	PB-214	---	---	---	4,150E-01	1,020E+00
29	BI-212	---	---	---	2,600E+00	6,718E+00
30	BI-214	---	---	---	4,796E-01	1,195E+00
31	RA-226	---	---	---	2,997E+00	7,276E+00
32	AC-228	---	---	---	9,826E-01	2,478E+00
33	TH-227	---	---	---	9,384E-01	2,425E+00
34	TH-230	---	---	---	2,723E+01	6,989E+01
35	TH-234	---	---	---	3,203E+00	8,649E+00
36	PA-234M	---	---	---	3,115E+01	7,897E+01
37	U-235	---	---	---	8,681E-01	2,107E+00
38	AM-241	---	---	---	2,544E-01	6,404E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 160

Auswertung des Gammaskopimetrischen: T2105112

Bezugsdatum:	12.05.2021 10:50:00	Detektor:	GMX2
Messdatum:	18.05.2021 10:45:00	Messzeit: (life)	5400.00 s
Alter der Probe:	6.00 Tage	Messzeit: (real)	5400.65 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.445 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	18.05.2021 12:32:58	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210512/01 PW1942 21/0709	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Faktor (%)	Erwart. (Bq)	EM (µg)	MW (µg)
1	BE-7	---	---	---	1,820E+00	4,506E+00
2	K-40	4,745E+01	22,4	1,064E+01	3,140E+00	8,026E+00
3	MN-54	---	---	---	1,667E-01	4,391E-01
4	CO-57	---	---	---	9,699E-02	2,372E-01
5	CO-60	---	---	---	1,922E-01	5,316E-01
6	ZN-65	---	---	---	5,036E-01	1,297E+00
7	SE-75	---	---	---	1,975E-01	4,915E-01
8	SR-85	---	---	---	1,398E-01	3,601E-01
9	Y-88	---	---	---	1,752E-01	5,287E-01
10	NB-94	---	---	---	2,047E-01	5,262E-01
11	RU-106	---	---	---	1,782E+00	4,563E+00
12	AG-108M	---	---	---	1,866E-01	4,930E-01
13	AG-110M	---	---	---	1,693E-01	4,459E-01
14	CD-109	---	---	---	2,608E+00	6,352E+00
15	SN-113	---	---	---	2,192E-01	5,463E-01
16	SB-125	---	---	---	4,264E-01	1,085E+00
17	I-129	---	---	---	2,189E+00	5,959E+00
18	CS-134	---	---	---	1,904E-01	4,828E-01
19	CS-137	---	---	---	2,056E-01	5,239E-01
20	CE-139	---	---	---	1,105E-01	2,719E-01
21	CE-144	---	---	---	7,979E-01	1,946E+00
22	EU-152	---	---	---	5,160E-01	1,279E+00
23	EU-154	---	---	---	8,381E-01	2,196E+00
24	HG-203	---	---	---	1,509E-01	3,730E-01
25	TL-208	---	---	---	2,384E-01	5,968E-01
26	PB-210	---	---	---	3,552E+00	9,097E+00
27	PB-212	---	---	---	2,653E-01	6,478E-01
28	PB-214	---	---	---	3,633E-01	9,034E-01
29	BI-212	---	---	---	2,092E+00	5,571E+00
30	BI-214	---	---	---	5,332E-01	1,316E+00
31	RA-226	---	---	---	2,902E+00	7,060E+00
32	AC-228	---	---	---	9,186E-01	2,333E+00
33	TH-227	---	---	---	8,393E-01	2,189E+00
34	TH-230	---	---	---	2,765E+01	7,091E+01
35	TH-234	---	---	---	3,349E+00	9,021E+00
36	PA-234M	---	---	---	2,534E+01	6,587E+01
37	U-235	---	---	---	8,107E-01	1,977E+00
38	AM-241	---	---	---	2,620E-01	6,582E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 161

Auswertung des Gammaskopimetrischen: T2106291

Bezugsdatum:	24.06.2021 09:35:00	Detektor:	GMX6
Messdatum:	24.06.2021 19:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	33900 Sekunden	Messzeit: (real)	3600.81 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	2.531 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	24.06.2021 20:02:03	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750039/20210624/01 PW1971 21/1059	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

ID	Name	Aktivität [Bq]	Effizienz [%]	Effizienz [Bq]	HKG [Bq]	NW [Bq]
1	BE-7	---	---	---	1,003E+00	2,597E+00
2	K-40	8,096E+01	21,3	1,725E+01	1,993E+00	5,241E+00
3	MN-54	---	---	---	1,188E-01	3,203E-01
4	CO-57	---	---	---	8,329E-02	2,063E-01
5	CO-60	---	---	---	1,523E-01	4,237E-01
6	ZN-65	---	---	---	3,285E-01	8,693E-01
7	SE-75	---	---	---	1,563E-01	3,987E-01
8	SR-85	---	---	---	1,482E-01	3,716E-01
9	Y-88	---	---	---	1,335E-01	4,033E-01
10	NB-94	---	---	---	1,426E-01	3,755E-01
11	RU-106	---	---	---	1,146E+00	3,064E+00
12	AG-108M	---	---	---	1,336E-01	3,667E-01
13	AG-110M	---	---	---	1,593E-01	4,176E-01
14	CD-109	---	---	---	1,986E+00	4,933E+00
15	SN-113	---	---	---	1,485E-01	3,812E-01
16	SB-125	---	---	---	3,390E-01	8,770E-01
17	I-129	---	---	---	2,323E+00	6,381E+00
18	CS-134	---	---	---	1,402E-01	3,647E-01
19	CS-137	---	---	---	1,070E-01	2,933E-01
20	CE-139	---	---	---	8,470E-02	2,139E-01
21	GE-144	---	---	---	7,044E-01	1,736E+00
22	EU-152	---	---	---	3,031E-01	7,954E-01
23	EU-154	---	---	---	5,630E-01	1,543E+00
24	HG-203	---	---	---	1,267E-01	3,149E-01
25	TL-208	---	---	---	1,761E-01	4,515E-01
26	PB-210	---	---	---	2,808E+00	7,391E+00
27	PB-212	---	---	---	2,055E-01	5,124E-01
28	PB-214	---	---	---	2,925E-01	7,383E-01
29	BI-212	---	---	---	2,010E+00	5,267E+00
30	BI-214	8,497E-01	41,9	3,557E-01	2,966E-01	7,701E-01
31	RA-223	---	---	---	2,481E+00	6,248E+00
32	RA-226	---	---	---	1,979E+00	4,983E+00
33	AC-228	---	---	---	5,796E-01	1,525E+00
34	TH-227	---	---	---	8,037E-01	2,110E+00
35	TH-230	---	---	---	2,561E+01	6,604E+01
36	TH-234	---	---	---	1,990E+00	5,580E+00
37	PA-234M	---	---	---	1,574E+01	4,263E+01
38	U-235	---	---	---	7,512E-01	1,846E+00
39	AM-241	---	---	---	2,417E-01	6,139E-01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 162

Auswertung des Gammaskopmetrischen: T2107141

Bezugsdatum:	15.07.2021 10:10:00	Detektor:	GMX2
Messdatum:	16.07.2021 12:30:00	Messzeit: (life)	5000.00 s
Alter der Probe:	1.10 Tage	Messzeit: (real)	5000.73 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.067 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.07.2021 13:56:07	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210715/01 PW1996 21/1257	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Quantität (Bq)	Genauigkeit (%)	Fähigkeit (Bq)	FKG (Bq)	MW (Bq)
1	BE-7	---	---	---	1,434E+00	3,642E+00
2	K-40	1,478E+02	21,0	3,110E+01	3,368E+00	8,618E+00
3	MN-54	---	---	---	2,180E-01	5,593E-01
4	CO-57	---	---	---	1,026E-01	2,511E-01
5	CO-60	---	---	---	2,072E-01	5,731E-01
6	ZN-65	---	---	---	4,868E-01	1,269E+00
7	SE-75	---	---	---	2,350E-01	5,787E-01
8	SR-85	---	---	---	2,314E-01	5,678E-01
9	Y-88	---	---	---	1,833E-01	5,531E-01
10	NB-94	---	---	---	2,077E-01	5,380E-01
11	RU-106	---	---	---	1,908E+00	4,883E+00
12	AG-108M	---	---	---	2,958E-01	7,457E-01
13	AG-110M	---	---	---	2,209E-01	5,667E-01
14	CD-109	---	---	---	2,932E+00	7,121E+00
15	SN-113	---	---	---	2,447E-01	6,064E-01
16	SB-125	---	---	---	5,431E-01	1,358E+00
17	I-129	---	---	---	2,590E+00	7,002E+00
18	CS-134	---	---	---	2,182E-01	5,496E-01
19	CS-137	---	---	---	2,277E-01	5,786E-01
20	CE-139	---	---	---	1,304E-01	3,183E-01
21	CE-144	---	---	---	8,320E-01	2,033E+00
22	EU-152	---	---	---	5,657E-01	1,401E+00
23	EU-154	---	---	---	1,279E+00	3,215E+00
24	HG-203	---	---	---	1,732E-01	4,235E-01
25	TL-208	---	---	---	2,722E-01	6,778E-01
26	PB-210	---	---	---	3,685E+00	9,462E+00
27	PB-212	---	---	---	3,228E-01	7,817E-01
28	PB-214	---	---	---	5,138E-01	1,250E+00
29	BI-212	---	---	---	2,955E+00	7,586E+00
30	BI-214	---	---	---	5,588E-01	1,383E+00
31	RA-226	---	---	---	3,539E+00	8,542E+00
32	AC-228	---	---	---	1,100E+00	2,763E+00
33	TH-227	---	---	---	9,594E-01	2,491E+00
34	TH-230	---	---	---	3,316E+01	8,452E+01
35	TH-234	---	---	---	3,241E+00	8,785E+00
36	PA-234M	---	---	---	3,648E+01	9,168E+01
37	U-235	---	---	---	9,283E-01	2,255E+00
38	AM-241	---	---	---	3,196E-01	7,962E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 163
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2108079

Bezugsdatum: 12.08.2021 09:40:00	Detektor: GMX2
Messdatum: 13.08.2021 07:10:00	Messzeit: (life) 4500.00 s
Alter der Probe: 77400 Sekunden	Messzeit: (real) 4500.67 s
Probenmasse/Volumen: 1	Totzeit: 0.01 %
Nuklidtabelle: RS2_REF2.ISO	Zählrate: 3.248 cps
Ausbeutekurve: RS2REF_1.EFF	Fensterbreite:
Absorptionskurve: RS2_L01.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2101T2.NUL	Halbwertsbreite: 0.67 keV - 2.22 keV
Auswertedatum: 13.08.2021 08:27:18	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: P750039/20210812/01 PW2026 21/1489	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (Bq)	Fehler (%)	Fehler (Bq)	TTC (Bq)	RWE (Bq)
1	BE-7	---	---	---	1,846E+00	4,615E+00
2	K-40	1,484E+02	21,1	3,136E+01	3,452E+00	8,920E+00
3	MN-54	---	---	---	1,713E-01	4,614E-01
4	CO-57	---	---	---	1,052E-01	2,591E-01
5	CO-60	---	---	---	3,139E-01	8,256E-01
6	ZN-65	---	---	---	6,780E-01	1,719E+00
7	SE-75	---	---	---	2,216E-01	5,534E-01
8	SR-85	---	---	---	1,974E-01	4,963E-01
9	Y-88	---	---	---	2,034E-01	6,138E-01
10	NB-94	---	---	---	2,149E-01	5,622E-01
11	RU-106	---	---	---	2,063E+00	5,298E+00
12	AG-108M	---	---	---	2,779E-01	7,137E-01
13	AG-110M	---	---	---	2,522E-01	6,448E-01
14	CD-109	---	---	---	2,961E+00	7,233E+00
15	SN-113	---	---	---	2,376E-01	5,963E-01
16	SB-125	---	---	---	6,036E-01	1,509E+00
17	I-129	---	---	---	2,983E+00	8,045E+00
18	CS-134	---	---	---	2,131E-01	5,444E-01
19	CS-137	---	---	---	2,334E-01	5,987E-01
20	CE-139	---	---	---	1,460E-01	3,562E-01
21	CE-144	---	---	---	8,945E-01	2,190E+00
22	EU-152	---	---	---	6,620E-01	1,632E+00
23	EU-154	---	---	---	1,171E+00	3,008E+00
24	HG-203	---	---	---	1,827E-01	4,483E-01
25	TL-208	---	---	---	2,963E-01	7,393E-01
26	PB-210	---	---	---	4,083E+00	1,048E+01
27	PB-212	---	---	---	3,560E-01	8,625E-01
28	PB-214	---	---	---	4,647E-01	1,149E+00
29	BI-212	---	---	---	3,364E+00	8,610E+00
30	BI-214	---	---	---	5,351E-01	1,343E+00
31	RA-226	---	---	---	3,687E+00	8,935E+00
32	AC-228	---	---	---	1,216E+00	3,057E+00
33	TH-227	---	---	---	1,149E+00	2,966E+00
34	TH-230	---	---	---	3,282E+01	8,424E+01
35	TH-234	---	---	---	3,862E+00	1,043E+01
36	PA-234M	---	---	---	3,204E+01	8,272E+01
37	U-235	---	---	---	9,832E-01	2,396E+00
38	AM-241	---	---	---	3,550E-01	8,845E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 164

Auswertung des Gammaskopimetrischen: T2109095

Bezugsdatum:	16.09.2021 09:00:00	Detektor:	GMX2
Messdatum:	16.09.2021 16:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	27000 Sekunden	Messzeit: (real)	3600.51 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.076 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	16.09.2021 17:30:45	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20210916/01 PW2040 21/1660	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AKTIVITÄT [Bq]	Effizienz [%]	Gamma [cp]	Z (keV)	NWA [cp]
1	BE-7	---	---	---	1,539E+00	4,031E+00
2	K-40	1,369E+02	21,4	2,924E+01	3,686E+00	9,731E+00
3	MN-54	---	---	---	2,365E-01	6,269E-01
4	CO-57	---	---	---	1,275E-01	3,147E-01
5	CO-60	---	---	---	3,264E-01	8,831E-01
6	ZN-65	---	---	---	7,437E-01	1,914E+00
7	SE-75	---	---	---	3,216E-01	7,926E-01
8	SR-85	---	---	---	2,621E-01	6,544E-01
9	Y-88	---	---	---	2,533E-01	7,643E-01
10	NB-94	---	---	---	2,980E-01	7,690E-01
11	RU-106	---	---	---	2,014E+00	5,344E+00
12	AG-108M	---	---	---	3,008E-01	7,868E-01
13	AG-110M	---	---	---	2,166E-01	5,828E-01
14	CD-109	---	---	---	3,613E+00	8,839E+00
15	SN-113	---	---	---	2,530E-01	6,459E-01
16	SB-125	---	---	---	6,532E-01	1,657E+00
17	I-129	---	---	---	2,244E+00	6,332E+00
18	CS-134	---	---	---	2,571E-01	6,596E-01
19	CS-137	---	---	---	2,123E-01	5,692E-01
20	CE-139	---	---	---	1,576E-01	3,886E-01
21	CE-144	---	---	---	9,642E-01	2,388E+00
22	EU-152	---	---	---	6,589E-01	1,659E+00
23	EU-154	---	---	---	1,300E+00	3,391E+00
24	HG-203	---	---	---	1,899E-01	4,732E-01
25	TL-208	---	---	---	2,524E-01	6,578E-01
26	PB-210	---	---	---	4,595E+00	1,188E+01
27	PB-212	---	---	---	3,985E-01	9,729E-01
28	PB-214	---	---	---	5,990E-01	1,477E+00
29	BI-212	---	---	---	3,731E+00	9,696E+00
30	BI-214	---	---	---	7,007E-01	1,750E+00
31	RA-226	---	---	---	4,293E+00	1,046E+01
32	AC-228	---	---	---	1,279E+00	3,276E+00
33	TH-227	---	---	---	1,214E+00	3,176E+00
34	TH-230	---	---	---	3,636E+01	9,406E+01
35	TH-234	---	---	---	4,623E+00	1,251E+01
36	PA-234M	---	---	---	3,262E+01	8,663E+01
37	U-235	---	---	---	1,199E+00	2,926E+00
38	AM-241	---	---	---	4,154E-01	1,039E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 165
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2110093

Bezugsdatum: 14.10.2021 09:15:00	Detektor: GMX6
Messdatum: 14.10.2021 17:56:45	Messzeit: (life) 1200.00 s
Alter der Probe: 31305 Sekunden	Messzeit: (real) 1200.26 s
Probenmasse/Volumen: 1	Totzeit: 0.02 %
Nuklidtabelle: RS6_REF1.ISO	Zählrate: 2.799 cps
Ausbeutekurve: RS6REF_1.EFF	Fensterbreite:
Absorptionskurve: RS6_L01.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2105T6.NUL	Halbwertsbreite: 0.67 keV - 2.14 keV
Auswertedatum: 14.10.2021 18:18:39	Peaksuch-Parameter: 2.50 / 2.50 (15 keV - 2020 keV)
Kommentar: P750039/20211014/01 PW2055 21/1818	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Dosis [Sv]	Kontrast [Bq]	EWG [Bq]	NWG [Bq]
1	BE-7	---	---	---	1,393E+00	4,148E+00
2	K-40	9,890E+01	22,3	2,203E+01	3,220E+00	9,497E+00
3	MN-54	---	---	---	2,078E-01	6,257E-01
4	CO-57	---	---	---	1,478E-01	3,880E-01
5	CO-60	---	---	---	3,152E-01	9,512E-01
6	ZN-65	---	---	---	7,771E-01	2,138E+00
7	SE-75	---	---	---	4,024E-01	1,046E+00
8	SR-85	---	---	---	2,929E-01	7,728E-01
9	Y-88	---	---	---	4,003E-01	1,210E+00
10	NB-94	---	---	---	2,142E-01	6,449E-01
11	RU-106	---	---	---	2,174E+00	6,336E+00
12	AG-108M	---	---	---	3,710E-01	1,033E+00
13	AG-110M	---	---	---	2,260E-01	6,828E-01
14	CD-109	---	---	---	2,567E+00	7,097E+00
15	SN-113	---	---	---	1,871E-01	5,615E-01
16	SB-125	---	---	---	7,878E-01	2,114E+00
17	I-129	---	---	---	3,348E+00	1,020E+01
18	CS-134	---	---	---	2,865E-01	7,910E-01
19	CS-137	---	---	---	2,067E-01	6,220E-01
20	CE-139	---	---	---	2,156E-01	5,546E-01
21	CE-144	---	---	---	1,091E+00	2,895E+00
22	EU-152	---	---	---	6,178E-01	1,728E+00
23	EU-154	---	---	---	1,427E+00	4,038E+00
24	HG-203	---	---	---	1,991E-01	5,367E-01
25	TL-208	---	---	---	2,710E-01	7,729E-01
26	PB-210	---	---	---	5,449E+00	1,511E+01
27	PB-212	---	---	---	4,660E-01	1,198E+00
28	PB-214	---	---	---	5,278E-01	1,426E+00
29	BI-212	---	---	---	3,016E+00	9,003E+00
30	BI-214	---	---	---	7,096E-01	1,904E+00
31	RA-223	---	---	---	3,430E+00	9,692E+00
32	RA-226	---	---	---	4,113E+00	1,083E+01
33	AC-228	---	---	---	8,626E-01	2,600E+00
34	TH-227	---	---	---	1,225E+00	3,501E+00
35	TH-230	---	---	---	3,936E+01	1,087E+02
36	TH-234	---	---	---	4,382E+00	1,272E+01
37	PA-234M	---	---	---	3,340E+01	9,669E+01
38	U-235	---	---	---	1,448E+00	3,718E+00
39	AM-241	---	---	---	4,874E-01	1,293E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 166

Auswertung des Gammaskopimetrischen: T2111130

Bezugsdatum:	18.11.2021 11:00:00	Detektor:	GMX6
Messdatum:	19.11.2021 09:10:00	Messzeit: (life)	3600.00 s
Alter der Probe:	79800 Sekunden	Messzeit: (real)	3600.73 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	2.358 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2110T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	19.11.2021 10:13:14	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750039/20211118/01 PW2070 21/1992	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AKTIVITÄT (Bq)	Genauigkeit (%)	Faktor (Bq)	HLW (keV)	HLW (keV)
1	BE-7	---	---	---	1,046E+00	2,695E+00
2	K-40	8,254E+01	21,3	1,757E+01	1,846E+00	4,910E+00
3	MN-54	---	---	---	1,254E-01	3,352E-01
4	CO-57	---	---	---	7,458E-02	1,866E-01
5	CO-60	---	---	---	1,966E-01	5,239E-01
6	ZN-65	---	---	---	3,356E-01	8,855E-01
7	SE-75	---	---	---	1,687E-01	4,269E-01
8	SR-85	---	---	---	1,353E-01	3,427E-01
9	Y-88	---	---	---	1,339E-01	4,047E-01
10	NB-94	---	---	---	1,009E-01	2,813E-01
11	RU-106	---	---	---	1,496E+00	3,855E+00
12	AG-108M	---	---	---	1,336E-01	3,667E-01
13	AG-110M	---	---	---	1,171E-01	3,222E-01
14	CD-109	---	---	---	1,702E+00	4,288E+00
15	SN-113	---	---	---	1,514E-01	3,880E-01
16	SB-125	---	---	---	3,277E-01	8,514E-01
17	I-129	---	---	---	2,088E+00	5,800E+00
18	CS-134	---	---	---	1,502E-01	3,873E-01
19	CS-137	---	---	---	1,279E-01	3,404E-01
20	CE-139	---	---	---	8,386E-02	2,121E-01
21	CE-144	---	---	---	5,652E-01	1,421E+00
22	EU-152	---	---	---	3,526E-01	9,070E-01
23	EU-154	---	---	---	4,759E-01	1,346E+00
24	HG-203	---	---	---	1,204E-01	3,009E-01
25	TL-208	---	---	---	1,278E-01	3,422E-01
26	PB-210	---	---	---	2,473E+00	6,594E+00
27	PB-212	---	---	---	2,254E-01	5,575E-01
28	PB-214	---	---	---	2,841E-01	7,194E-01
29	BI-212	---	---	---	1,741E+00	4,660E+00
30	BI-214	---	---	---	4,006E-01	1,005E+00
31	RA-223	---	---	---	2,065E+00	5,308E+00
32	RA-226	---	---	---	2,198E+00	5,478E+00
33	AC-228	---	---	---	4,426E-01	1,216E+00
34	TH-227	---	---	---	6,771E-01	1,808E+00
35	TH-230	---	---	---	2,150E+01	5,624E+01
36	TH-234	---	---	---	2,208E+00	6,130E+00
37	PA-234M	---	---	---	1,473E+01	4,034E+01
38	U-235	---	---	---	7,178E-01	1,770E+00
39	AM-241	---	---	---	2,605E-01	6,572E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 167

Auswertung des Gammaskopimetrischen: T2112108

Bezugsdatum:	16.12.2021 08:50:00	Detektor:	GMX2
Messdatum:	17.12.2021 14:45:00	Messzeit: (life)	5400.00 s
Alter der Probe:	1.25 Tage	Messzeit: (real)	5400.63 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.400 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	20.12.2021 07:43:05	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750039/20211216/01 PW 2084 21/2160	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Faktor (%)	Faktor (Bq)	EKT (keV)	NWT (Bq)
1	BE-7	---	---	---	1,415E+00	3,569E+00
2	K-40	4,995E+01	22,2	1,108E+01	2,641E+00	6,902E+00
3	MN-54	---	---	---	1,517E-01	4,047E-01
4	CO-57	---	---	---	9,580E-02	2,343E-01
5	CO-60	---	---	---	2,176E-01	5,888E-01
6	ZN-65	---	---	---	3,998E-01	1,060E+00
7	SE-75	---	---	---	1,760E-01	4,416E-01
8	SR-85	---	---	---	1,710E-01	4,284E-01
9	Y-88	---	---	---	2,182E-01	6,218E-01
10	NB-94	---	---	---	2,047E-01	5,263E-01
11	RU-106	---	---	---	1,858E+00	4,728E+00
12	AG-108M	---	---	---	2,372E-01	6,075E-01
13	AG-110M	---	---	---	2,046E-01	5,250E-01
14	CD-109	---	---	---	2,437E+00	5,960E+00
15	SN-113	---	---	---	2,095E-01	5,229E-01
16	SB-125	---	---	---	4,558E-01	1,151E+00
17	I-129	---	---	---	2,284E+00	6,198E+00
18	CS-134	---	---	---	2,100E-01	5,270E-01
19	CS-137	---	---	---	1,415E-01	3,794E-01
20	CE-139	---	---	---	1,101E-01	2,706E-01
21	CE-144	---	---	---	6,865E-01	1,692E+00
22	EU-152	---	---	---	5,168E-01	1,281E+00
23	EU-154	---	---	---	9,755E-01	2,506E+00
24	HG-203	---	---	---	1,335E-01	3,315E-01
25	TL-208	---	---	---	2,379E-01	5,957E-01
26	PB-210	---	---	---	3,496E+00	8,961E+00
27	PB-212	---	---	---	3,113E-01	7,519E-01
28	PB-214	---	---	---	3,538E-01	8,818E-01
29	BI-212	---	---	---	2,740E+00	7,034E+00
30	BI-214	---	---	---	4,934E-01	1,226E+00
31	RA-226	---	---	---	3,042E+00	7,377E+00
32	AC-228	---	---	---	7,785E-01	2,017E+00
33	TH-227	---	---	---	8,992E-01	2,332E+00
34	TH-230	---	---	---	2,899E+01	7,413E+01
35	TH-234	---	---	---	3,320E+00	8,947E+00
36	PA-234M	---	---	---	2,880E+01	7,366E+01
37	U-235	---	---	---	8,513E-01	2,069E+00
38	AM-241	---	---	---	2,352E-01	5,957E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 168

12 Messergebnisse Laugenmessstelle P750040

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 169
NNAA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2101087

Bezugsdatum: 14.01.2021 09:50:00	Detektor: GMX4
Messdatum: 18.01.2021 15:45:00	Messzeit: (life) 3600.00 s
Alter der Probe: 4.25 Tage	Messzeit: (real) 3600.33 s
Probenmasse/Volumen: 1	Totzeit: 0.01 %
Nuklidtabelle: RS4_REF3.ISO	Zählrate: 1.975 cps
Ausbeutekurve: RS4REF_1.EFF	Fensterbreite:
Absorptionskurve: RS4_L01.ABS	Zerfallskorrektur: 10 Halbwertszeiten max.
Nulldatei: UR2005T4.NUL	Halbwertsbreite: 0.92 keV - 2.28 keV
Auswertedatum: 18.01.2021 16:58:24	Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV)
Kommentar: P750040/20210114/01 PW1879 21/0066	Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	aktivität [Bq]	aktivität [Bq/g]	Standard [Bq]	Standard [Bq/g]	KC [Bq]	KWF [Bq]
1	BE-7	---	---	---	---	8,232E-01	2,227E+00
2	K-40	3,814E+01	22,2	8,481E+00	1,360E+00	3,873E+00	
3	MN-54	---	---	---	1,780E-01	4,574E-01	
4	CO-57	---	---	---	8,649E-02	2,145E-01	
5	CO-60	---	---	---	2,186E-01	5,795E-01	
6	ZN-65	---	---	---	2,820E-01	7,751E-01	
7	SE-75	---	---	---	1,413E-01	3,663E-01	
8	SR-85	---	---	---	1,228E-01	3,180E-01	
9	Y-88	---	---	---	2,307E-01	6,343E-01	
10	NB-94	---	---	---	9,669E-02	2,754E-01	
11	RU-106	---	---	---	1,313E+00	3,470E+00	
12	AG-108M	---	---	---	1,882E-01	4,935E-01	
13	AG-110M	---	---	---	1,387E-01	3,744E-01	
14	CD-109	---	---	---	2,161E+00	5,346E+00	
15	SN-113	---	---	---	1,778E-01	4,505E-01	
16	SB-125	---	---	---	2,870E-01	7,657E-01	
17	I-129	---	---	---	1,983E+00	5,377E+00	
18	CS-134	---	---	---	1,255E-01	3,340E-01	
19	CS-137	---	---	---	1,579E-01	4,108E-01	
20	CE-139	---	---	---	1,035E-01	2,574E-01	
21	CE-144	---	---	---	6,741E-01	1,673E+00	
22	EU-152	---	---	---	3,750E-01	9,614E-01	
23	EU-154	---	---	---	6,983E-01	1,864E+00	
24	HG-203	---	---	---	1,284E-01	3,213E-01	
25	TL-208	---	---	---	1,188E-01	3,246E-01	
26	PB-210	---	---	---	3,061E+00	7,816E+00	
27	PB-212	---	---	---	2,121E-01	5,284E-01	
28	PB-214	---	---	---	2,933E-01	7,429E-01	
29	BI-212	---	---	---	2,001E+00	5,287E+00	
30	BI-214	---	---	---	3,583E-01	9,145E-01	
31	RA-223	---	---	---	2,489E+00	6,288E+00	
32	RA-226	---	---	---	2,486E+00	6,137E+00	
33	AC-228	---	---	---	5,551E-01	1,484E+00	
34	TH-227	---	---	---	7,481E-01	1,981E+00	
35	TH-230	---	---	---	2,672E+01	6,843E+01	
36	TH-234	---	---	---	2,338E+00	6,413E+00	
37	PA-234M	---	---	---	1,857E+01	4,950E+01	
38	U-235	---	---	---	5,996E-01	1,507E+00	
39	AM-241	---	---	---	2,394E-01	6,027E-01	

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 170
NNAA	NNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2102101

Bezugsdatum:	18.02.2021 10:15:00	Detektor:	GMX4
Messdatum:	22.02.2021 09:55:00	Messzeit: (life)	1800.00 s
Alter der Probe:	3.99 Tage	Messzeit: (real)	1800.17 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.384 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	22.02.2021 10:27:07	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20210218/01 PW1892 21/0218	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Gamma [cp]	Gamma [cp]	EKS [keV]	MWG [µm]
1	BE-7	---	---	---	1,739E+00	4,659E+00
2	K-40	2,764E+01	25,5	7,056E+00	3,114E+00	8,637E+00
3	MN-54	---	---	---	2,052E-01	5,749E-01
4	CO-57	---	---	---	1,174E-01	3,029E-01
5	CO-60	---	---	---	2,264E-01	6,830E-01
6	ZN-65	---	---	---	3,788E-01	1,133E+00
7	SE-75	---	---	---	2,521E-01	6,635E-01
8	SR-85	---	---	---	1,369E-01	3,908E-01
9	Y-88	---	---	---	2,949E-01	8,914E-01
10	NB-94	---	---	---	2,117E-01	5,919E-01
11	RU-106	---	---	---	2,700E+00	7,107E+00
12	AG-108M	---	---	---	1,777E-01	5,372E-01
13	AG-110M	---	---	---	2,261E-01	6,328E-01
14	CD-109	---	---	---	3,161E+00	8,055E+00
15	SN-113	---	---	---	3,026E-01	7,812E-01
16	SB-125	---	---	---	6,785E-01	1,767E+00
17	I-129	---	---	---	3,601E+00	9,870E+00
18	CS-134	---	---	---	2,451E-01	6,548E-01
19	CS-137	---	---	---	1,456E-01	4,383E-01
20	CE-139	---	---	---	1,384E-01	3,595E-01
21	CE-144	---	---	---	8,736E-01	2,271E+00
22	EU-152	---	---	---	4,548E-01	1,256E+00
23	EU-154	---	---	---	7,514E-01	2,269E+00
24	HG-203	---	---	---	2,053E-01	5,259E-01
25	TL-208	---	---	---	1,478E-01	4,462E-01
26	PB-210	---	---	---	4,544E+00	1,192E+01
27	PB-212	---	---	---	3,353E-01	8,557E-01
28	PB-214	---	---	---	4,606E-01	1,202E+00
29	BI-212	---	---	---	2,695E+00	7,629E+00
30	BI-214	---	---	---	6,912E-01	1,772E+00
31	RA-223	---	---	---	4,337E+00	1,113E+01
32	RA-226	---	---	---	3,768E+00	9,552E+00
33	AC-228	---	---	---	7,844E-01	2,233E+00
34	TH-227	---	---	---	1,041E+00	2,874E+00
35	TH-230	---	---	---	4,209E+01	1,099E+02
36	TH-234	---	---	---	3,510E+00	9,894E+00
37	PA-234M	---	---	---	2,623E+01	7,442E+01
38	U-235	---	---	---	1,062E+00	2,704E+00
39	AM-241	---	---	---	4,470E-01	1,132E+00

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 171

Auswertung des Gammaskopimetrischen: T2103135

Bezugsdatum:	18.03.2021 09:50:00	Detektor:	GMX4
Messdatum:	22.03.2021 13:10:00	Messzeit: (life)	3600.00 s
Alter der Probe:	4.14 Tage	Messzeit: (real)	3600.32 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	1.890 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	22.03.2021 14:21:24	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20210318/01 PW1909 21/0386	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Wirkungsfaktor	Gamma	Gamma	Gamma	Gamma
		[dpm]	[Bq]	[Bq]	[Bq]	[Bq]
1	BE-7	---	---	---	1,162E+00	2,989E+00
2	K-40	2,836E+01	23,0	6,510E+00	1,701E+00	4,644E+00
3	MN-54	---	---	---	9,373E-02	2,674E-01
4	CO-57	---	---	---	8,187E-02	2,040E-01
5	CO-60	---	---	---	2,082E-01	5,562E-01
6	ZN-65	---	---	---	2,817E-01	7,745E-01
7	SE-75	---	---	---	1,709E-01	4,334E-01
8	SR-85	---	---	---	1,557E-01	3,920E-01
9	Y-88	---	---	---	1,476E-01	4,462E-01
10	NB-94	---	---	---	1,367E-01	3,654E-01
11	RU-106	---	---	---	1,256E+00	3,341E+00
12	AG-108M	---	---	---	1,380E-01	3,799E-01
13	AG-110M	---	---	---	1,461E-01	3,911E-01
14	CD-109	---	---	---	2,112E+00	5,234E+00
15	SN-113	---	---	---	1,197E-01	3,196E-01
16	SB-125	---	---	---	3,848E-01	9,864E-01
17	I-129	---	---	---	2,107E+00	5,678E+00
18	CS-134	---	---	---	1,819E-01	4,616E-01
19	CS-137	---	---	---	1,265E-01	3,401E-01
20	CE-139	---	---	---	1,105E-01	2,733E-01
21	CE-144	---	---	---	7,330E-01	1,806E+00
22	EU-152	---	---	---	4,032E-01	1,025E+00
23	EU-154	---	---	---	5,405E-01	1,507E+00
24	HG-203	---	---	---	1,217E-01	3,061E-01
25	TL-208	---	---	---	1,513E-01	3,981E-01
26	PB-210	---	---	---	2,947E+00	7,546E+00
27	PB-212	---	---	---	2,155E-01	5,360E-01
28	PB-214	---	---	---	2,800E-01	7,131E-01
29	BI-212	---	---	---	1,999E+00	5,284E+00
30	BI-214	---	---	---	3,679E-01	9,362E-01
31	RA-223	---	---	---	1,862E+00	4,871E+00
32	RA-226	---	---	---	2,108E+00	5,283E+00
33	AC-228	---	---	---	5,548E-01	1,483E+00
34	TH-227	---	---	---	7,194E-01	1,913E+00
35	TH-230	---	---	---	2,459E+01	6,336E+01
36	TH-234	---	---	---	2,486E+00	6,787E+00
37	PA-234M	---	---	---	1,437E+01	4,004E+01
38	U-235	---	---	---	5,662E-01	1,432E+00
39	AM-241	---	---	---	2,207E-01	5,597E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 172

Auswertung des Gammaskopimetrischen: T2104073

Bezugsdatum:	15.04.2021 09:15:00	Detektor:	GMX4
Messdatum:	19.04.2021 09:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	3.99 Tage	Messzeit: (real)	3600.45 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.619 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.04.2021 10:06:54	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20210415/01 PW1924 21/0525	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Effizienz [%]	Zählrate [cps]	ERG [Bq]	MWG [min]
1	BE-7	---	---	---	1,420E+00	3,571E+00
2	K-40	2,109E+02	20,8	4,394E+01	1,344E+00	3,837E+00
3	MN-54	---	---	---	1,826E-01	4,678E-01
4	CO-57	---	---	---	1,099E-01	2,674E-01
5	CO-60	---	---	---	2,634E-01	6,808E-01
6	ZN-65	---	---	---	5,480E-01	1,375E+00
7	SE-75	---	---	---	2,122E-01	5,271E-01
8	SR-85	---	---	---	1,475E-01	3,735E-01
9	Y-88	---	---	---	1,474E-01	4,458E-01
10	NB-94	---	---	---	1,833E-01	4,706E-01
11	RU-106	---	---	---	1,735E+00	4,423E+00
12	AG-108M	---	---	---	2,556E-01	6,460E-01
13	AG-110M	---	---	---	1,847E-01	4,784E-01
14	CD-109	---	---	---	2,787E+00	6,768E+00
15	SN-113	---	---	---	1,929E-01	4,845E-01
16	SB-125	---	---	---	4,624E-01	1,162E+00
17	I-129	---	---	---	3,356E+00	8,713E+00
18	CS-134	---	---	---	1,738E-01	4,432E-01
19	CS-137	---	---	---	1,578E-01	4,105E-01
20	CE-139	---	---	---	1,234E-01	3,026E-01
21	CE-144	---	---	---	8,071E-01	1,974E+00
22	EU-152	---	---	---	4,709E-01	1,178E+00
23	EU-154	---	---	---	1,035E+00	2,625E+00
24	HG-203	---	---	---	1,512E-01	3,726E-01
25	TL-208	---	---	---	1,513E-01	3,981E-01
26	PB-210	---	---	---	4,102E+00	1,026E+01
27	PB-212	---	---	---	2,559E-01	6,271E-01
28	PB-214	---	---	---	3,773E-01	9,326E-01
29	BI-212	---	---	---	1,999E+00	5,284E+00
30	BI-214	---	---	---	4,625E-01	1,150E+00
31	RA-223	---	---	---	2,814E+00	7,022E+00
32	RA-226	---	---	---	2,754E+00	6,743E+00
33	AC-228	---	---	---	8,772E-01	2,210E+00
34	TH-227	---	---	---	9,100E-01	2,368E+00
35	TH-230	---	---	---	3,322E+01	8,392E+01
36	TH-234	---	---	---	3,157E+00	8,474E+00
37	PA-234M	---	---	---	2,557E+01	6,531E+01
38	U-235	---	---	---	8,845E-01	2,152E+00
39	AM-241	---	---	---	3,152E-01	7,768E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 173

Auswertung des Gammaskopimetrischen: T2105113

Bezugsdatum:	12.05.2021 10:15:00	Detektor:	GMX6
Messdatum:	18.05.2021 10:50:00	Messzeit: (life)	3600.00 s
Alter der Probe:	6.02 Tage	Messzeit: (real)	3600.96 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	3.630 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	18.05.2021 12:13:21	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750040/20210512/01 PW1942 21/0710	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	AMOUNT (Bq/l)	ERROR (Bq/l)	ERROR (Bq/l)	ERG (Bq/l)	NWG (Bq/l)
1	BE-7	---	---	---	1,500E+00	3,741E+00
2	K-40	2,058E+02	20,8	4,285E+01	1,646E+00	4,459E+00
3	MN-54	---	---	---	1,654E-01	4,259E-01
4	CO-57	---	---	---	9,384E-02	2,304E-01
5	CO-60	---	---	---	1,970E-01	5,248E-01
6	ZN-65	---	---	---	4,768E-01	1,206E+00
7	SE-75	---	---	---	1,925E-01	4,821E-01
8	SR-85	---	---	---	1,957E-01	4,810E-01
9	Y-88	---	---	---	1,768E-01	5,050E-01
10	NB-94	---	---	---	1,887E-01	4,793E-01
11	RU-106	---	---	---	1,554E+00	3,991E+00
12	AG-108M	---	---	---	2,258E-01	5,755E-01
13	AG-110M	---	---	---	1,904E-01	4,889E-01
14	CD-109	---	---	---	2,278E+00	5,599E+00
15	SN-113	---	---	---	1,580E-01	4,043E-01
16	SB-125	---	---	---	3,623E-01	9,300E-01
17	I-129	---	---	---	2,696E+00	7,301E+00
18	CS-134	---	---	---	1,677E-01	4,271E-01
19	CS-137	---	---	---	1,669E-01	4,281E-01
20	CE-139	---	---	---	1,102E-01	2,723E-01
21	CE-144	---	---	---	7,142E-01	1,760E+00
22	EU-152	---	---	---	3,258E-01	8,468E-01
23	EU-154	---	---	---	9,287E-01	2,370E+00
24	HG-203	---	---	---	1,581E-01	3,882E-01
25	TL-208	---	---	---	1,666E-01	4,300E-01
26	PB-210	---	---	---	3,968E+00	1,014E+01
27	PB-212	---	---	---	2,264E-01	5,597E-01
28	PB-214	---	---	---	2,986E-01	7,519E-01
29	BI-212	---	---	---	1,642E+00	4,435E+00
30	BI-214	---	---	---	4,244E-01	1,058E+00
31	RA-223	---	---	---	2,482E+00	6,251E+00
32	RA-226	---	---	---	2,408E+00	5,951E+00
33	AC-228	---	---	---	6,032E-01	1,579E+00
34	TH-227	---	---	---	9,129E-01	2,371E+00
35	TH-230	---	---	---	2,451E+01	6,342E+01
36	TH-234	---	---	---	2,842E+00	7,731E+00
37	PA-234M	---	---	---	2,426E+01	6,186E+01
38	U-235	---	---	---	8,508E-01	2,071E+00
39	AM-241	---	---	---	2,880E-01	7,207E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 174

Auswertung des Gammaskopimetrischen: T2106305

Bezugsdatum:	24.06.2021 09:55:00	Detektor:	GMX4
Messdatum:	25.06.2021 11:30:00	Messzeit: (life)	3600.00 s
Alter der Probe:	1.07 Tage	Messzeit: (real)	3600.47 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	3.824 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	25.06.2021 13:04:05	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20210624/01 PW1971 21/1065	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	A (dpm)	E _{eff} (%)	E _{eff} (1/dm)	ERG (dpm)	NWG (dpm)
1	BE-7	---	---	---	1,338E+00	3,372E+00
2	K-40	2,276E+02	20,8	4,737E+01	1,672E+00	4,578E+00
3	MN-54	---	---	---	1,815E-01	4,648E-01
4	CO-57	---	---	---	1,073E-01	2,615E-01
5	CO-60	---	---	---	2,372E-01	6,214E-01
6	ZN-65	---	---	---	5,900E-01	1,468E+00
7	SE-75	---	---	---	2,024E-01	5,041E-01
8	SR-85	---	---	---	1,668E-01	4,158E-01
9	Y-88	---	---	---	1,908E-01	5,419E-01
10	NB-94	---	---	---	2,072E-01	5,245E-01
11	RU-106	---	---	---	2,028E+00	5,083E+00
12	AG-108M	---	---	---	2,711E-01	6,811E-01
13	AG-110M	---	---	---	1,832E-01	4,745E-01
14	CD-109	---	---	---	2,910E+00	7,044E+00
15	SN-113	---	---	---	2,168E-01	5,373E-01
16	SB-125	---	---	---	4,873E-01	1,218E+00
17	I-129	---	---	---	3,279E+00	8,526E+00
18	CS-134	---	---	---	1,853E-01	4,691E-01
19	CS-137	---	---	---	1,738E-01	4,467E-01
20	CE-139	---	---	---	1,192E-01	2,926E-01
21	CE-144	---	---	---	9,737E-01	2,351E+00
22	EU-152	---	---	---	5,084E-01	1,263E+00
23	EU-154	---	---	---	1,188E+00	2,970E+00
24	HG-203	---	---	---	1,607E-01	3,927E-01
25	TL-208	---	---	---	2,098E-01	5,304E-01
26	PB-210	---	---	---	3,875E+00	9,726E+00
27	PB-212	---	---	---	2,412E-01	5,941E-01
28	PB-214	---	---	---	2,805E-01	7,141E-01
29	BI-212	---	---	---	2,255E+00	5,861E+00
30	BI-214	---	---	---	4,694E-01	1,165E+00
31	RA-223	---	---	---	2,814E+00	7,021E+00
32	RA-226	---	---	---	2,866E+00	6,995E+00
33	AC-228	---	---	---	8,229E-01	2,088E+00
34	TH-227	---	---	---	9,652E-01	2,500E+00
35	TH-230	---	---	---	3,343E+01	8,440E+01
36	TH-234	---	---	---	3,179E+00	8,531E+00
37	PA-234M	---	---	---	2,489E+01	6,377E+01
38	U-235	---	---	---	8,845E-01	2,152E+00
39	AM-241	---	---	---	3,860E-01	9,395E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 175

Auswertung des Gammaskopimetrischen: T2107139

Bezugsdatum:	15.07.2021 10:25:00	Detektor:	GMX4
Messdatum:	16.07.2021 12:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	1.08 Tage	Messzeit: (real)	3600.53 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.539 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.07.2021 13:36:19	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20210715/01 PW1996 21/1255	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Faktor (%)	Faktor (Bq/l)	EW (keV)	NWC Bq/l
1	BE-7	---	---	---	1,651E+00	4,077E+00
2	K-40	2,995E+02	20,7	6,214E+01	2,154E+00	5,665E+00
3	MN-54	---	---	---	1,862E-01	4,754E-01
4	CO-57	---	---	---	1,135E-01	2,753E-01
5	CO-60	---	---	---	2,461E-01	6,417E-01
6	ZN-65	---	---	---	6,076E-01	1,508E+00
7	SE-75	---	---	---	2,263E-01	5,583E-01
8	SR-85	---	---	---	1,713E-01	4,259E-01
9	Y-88	---	---	---	1,707E-01	4,963E-01
10	NB-94	---	---	---	2,367E-01	5,908E-01
11	RU-106	---	---	---	2,028E+00	5,083E+00
12	AG-108M	---	---	---	2,151E-01	5,544E-01
13	AG-110M	---	---	---	1,996E-01	5,117E-01
14	CD-109	---	---	---	2,910E+00	7,044E+00
15	SN-113	---	---	---	2,521E-01	6,171E-01
16	SB-125	---	---	---	4,340E-01	1,097E+00
17	I-129	---	---	---	3,305E+00	8,589E+00
18	CS-134	---	---	---	1,853E-01	4,691E-01
19	CS-137	---	---	---	1,885E-01	4,798E-01
20	CE-139	---	---	---	1,333E-01	3,245E-01
21	CE-144	---	---	---	8,869E-01	2,154E+00
22	EU-152	---	---	---	5,156E-01	1,279E+00
23	EU-154	---	---	---	9,356E-01	2,400E+00
24	HG-203	---	---	---	1,638E-01	3,996E-01
25	TL-208	---	---	---	2,180E-01	5,490E-01
26	PB-210	---	---	---	4,342E+00	1,082E+01
27	PB-212	---	---	---	2,814E-01	6,847E-01
28	PB-214	---	---	---	4,371E-01	1,067E+00
29	BI-212	---	---	---	2,762E+00	7,004E+00
30	BI-214	---	---	---	4,625E-01	1,150E+00
31	RA-223	---	---	---	2,943E+00	7,312E+00
32	RA-226	---	---	---	3,037E+00	7,382E+00
33	AC-228	---	---	---	1,008E+00	2,505E+00
34	TH-227	---	---	---	9,969E-01	2,575E+00
35	TH-230	---	---	---	3,634E+01	9,134E+01
36	TH-234	---	---	---	3,743E+00	9,949E+00
37	PA-234M	---	---	---	2,689E+01	6,827E+01
38	U-235	---	---	---	1,019E+00	2,456E+00
39	AM-241	---	---	---	4,034E-01	9,794E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 176

Auswertung des Gammaskopimetrischen: T2108075

Bezugsdatum:	12.08.2021 09:35:00	Detektor:	GMX4
Messdatum:	12.08.2021 17:05:00	Messzeit: (life)	4200.00 s
Alter der Probe:	27000 Sekunden	Messzeit: (real)	4200.60 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.487 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2103T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	12.08.2021 18:17:11	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20210812/01 PW2026 21/1487	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität Bq/l	Faktor %	Faktor -mal	BRZ Bq/l	NWC Bq/l
1	BE-7	---	---	---	1,059E+00	2,690E+00
2	K-40	2,999E+02	20,7	6,212E+01	2,026E+00	5,262E+00
3	MN-54	---	---	---	1,817E-01	4,572E-01
4	CO-57	---	---	---	1,012E-01	2,450E-01
5	CO-60	---	---	---	2,761E-01	6,972E-01
6	ZN-65	---	---	---	5,556E-01	1,371E+00
7	SE-75	---	---	---	2,160E-01	5,281E-01
8	SR-85	---	---	---	1,405E-01	3,505E-01
9	Y-88	---	---	---	1,234E-01	3,731E-01
10	NB-94	---	---	---	2,128E-01	5,288E-01
11	RU-106	---	---	---	1,643E+00	4,142E+00
12	AG-108M	---	---	---	2,191E-01	5,537E-01
13	AG-110M	---	---	---	1,837E-01	4,671E-01
14	CD-109	---	---	---	2,764E+00	6,651E+00
15	SN-113	---	---	---	2,151E-01	5,265E-01
16	SB-125	---	---	---	4,175E-01	1,043E+00
17	I-129	---	---	---	3,511E+00	9,007E+00
18	CS-134	---	---	---	1,925E-01	4,781E-01
19	CS-137	---	---	---	2,012E-01	5,005E-01
20	CE-139	---	---	---	1,289E-01	3,113E-01
21	CE-144	---	---	---	8,491E-01	2,047E+00
22	EU-152	---	---	---	4,658E-01	1,150E+00
23	EU-154	---	---	---	9,258E-01	2,337E+00
24	HG-203	---	---	---	1,478E-01	3,590E-01
25	TL-208	---	---	---	1,970E-01	4,935E-01
26	PB-210	---	---	---	3,859E+00	9,601E+00
27	PB-212	---	---	---	3,023E-01	7,249E-01
28	PB-214	---	---	---	3,440E-01	8,459E-01
29	BI-212	---	---	---	2,531E+00	6,372E+00
30	BI-214	---	---	---	4,396E-01	1,083E+00
31	RA-223	---	---	---	2,449E+00	6,102E+00
32	RA-226	---	---	---	2,893E+00	6,984E+00
33	AC-228	---	---	---	8,896E-01	2,205E+00
34	TH-227	---	---	---	9,711E-01	2,486E+00
35	TH-230	---	---	---	3,230E+01	8,102E+01
36	TH-234	---	---	---	3,354E+00	8,894E+00
37	PA-234M	---	---	---	2,464E+01	6,211E+01
38	U-235	---	---	---	9,382E-01	2,252E+00
39	AM-241	---	---	---	3,458E-01	8,395E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 177

Auswertung des Gammaskopimetrischen: T2109097

Bezugsdatum:	16.09.2021 09:15:00	Detektor:	GMX6
Messdatum:	16.09.2021 18:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	32400 Sekunden	Messzeit: (real)	3601.09 s
Probenmasse/Volumen:	1	Totzeit:	0.03 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	4.530 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	16.09.2021 19:24:57	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750040/20210916/01 PW2040 21/1661	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Faktor (%)	Faktor (Bq/l)	HLW (min)	RWV (l/l)
1	BE-7	---	---	---	1,199E+00	3,038E+00
2	K-40	3,000E+02	20,7	6,220E+01	1,716E+00	4,617E+00
3	MN-54	---	---	---	1,771E-01	4,517E-01
4	CO-57	---	---	---	1,140E-01	2,758E-01
5	CO-60	---	---	---	3,170E-01	7,957E-01
6	ZN-65	---	---	---	5,167E-01	1,294E+00
7	SE-75	---	---	---	2,090E-01	5,180E-01
8	SR-85	---	---	---	1,329E-01	3,372E-01
9	Y-88	---	---	---	2,155E-01	5,889E-01
10	NB-94	---	---	---	2,140E-01	5,362E-01
11	RU-106	---	---	---	1,775E+00	4,487E+00
12	AG-108M	---	---	---	2,314E-01	5,881E-01
13	AG-110M	---	---	---	2,296E-01	5,766E-01
14	CD-109	---	---	---	2,806E+00	6,796E+00
15	SN-113	---	---	---	1,905E-01	4,759E-01
16	SB-125	---	---	---	4,012E-01	1,017E+00
17	I-129	---	---	---	2,801E+00	7,561E+00
18	CS-134	---	---	---	1,892E-01	4,754E-01
19	CS-137	---	---	---	1,567E-01	4,051E-01
20	CE-139	---	---	---	1,111E-01	2,735E-01
21	CE-144	---	---	---	7,275E-01	1,788E+00
22	EU-152	---	---	---	4,368E-01	1,097E+00
23	EU-154	---	---	---	9,981E-01	2,527E+00
24	HG-203	---	---	---	1,438E-01	3,533E-01
25	TL-208	---	---	---	1,979E-01	5,008E-01
26	PB-210	---	---	---	4,449E+00	1,128E+01
27	PB-212	---	---	---	2,517E-01	6,166E-01
28	PB-214	---	---	---	2,925E-01	7,383E-01
29	BI-212	---	---	---	2,902E+00	7,277E+00
30	BI-214	---	---	---	4,244E-01	1,058E+00
31	RA-223	---	---	---	2,481E+00	6,248E+00
32	RA-226	---	---	---	2,730E+00	6,678E+00
33	AC-228	---	---	---	6,032E-01	1,579E+00
34	TH-227	---	---	---	1,000E+00	2,578E+00
35	TH-230	---	---	---	3,162E+01	8,039E+01
36	TH-234	---	---	---	2,895E+00	7,866E+00
37	PA-234M	---	---	---	3,099E+01	7,704E+01
38	U-235	---	---	---	8,998E-01	2,181E+00
39	AM-241	---	---	---	3,785E-01	9,296E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 178

Auswertung des Gammaskopimetrischen: T2110094

Bezugsdatum:	14.10.2021 09:35:00	Detektor:	GMX2
Messdatum:	14.10.2021 18:00:00	Messzeit: (life)	44000.00 s
Alter der Probe:	30300 Sekunden	Messzeit: (real)	44005.20 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.408 cps
Ausbeutekurve:	RS2_REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	15.10.2021 07:09:21	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20211014/01 PW2055 21/1819	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Erwartete Aktivität (Bq)	Erwartete Halbwertszeit (s)	Erwartete Energie (keV)	Erwartete Energie (keV)	Erwartete Energie (keV)	Erwartete Energie (keV)
1	BE-7	---	---	---	---	4,692E-01	1,104E+00
2	K-40	4,777E+01	20,7	9,884E+00	1,020E+00	2,417E+00	2,417E+00
3	MN-54	---	---	---	---	6,655E-02	1,577E-01
4	CO-57	---	---	---	---	3,498E-02	8,151E-02
5	CO-60	---	---	---	---	6,838E-02	1,663E-01
6	ZN-65	---	---	---	---	1,511E-01	3,600E-01
7	SE-75	---	---	---	---	7,100E-02	1,660E-01
8	SR-85	---	---	---	---	5,535E-02	1,300E-01
9	Y-88	---	---	---	---	6,198E-02	1,557E-01
10	NB-94	---	---	---	---	6,365E-02	1,514E-01
11	RU-106	---	---	---	---	5,903E-01	1,399E+00
12	AG-108M	---	---	---	---	7,329E-02	1,746E-01
13	AG-110M	---	---	---	---	6,893E-02	1,635E-01
14	CD-109	---	---	---	---	8,954E-01	2,094E+00
15	SN-113	---	---	---	---	6,843E-02	1,605E-01
16	SB-125	---	---	---	---	1,525E-01	3,593E-01
17	I-129	---	---	---	---	7,601E-01	1,964E+00
18	CS-134	---	---	---	---	6,391E-02	1,507E-01
19	CS-137	---	---	---	---	6,601E-02	1,562E-01
20	CE-139	---	---	---	---	3,974E-02	9,265E-02
21	CE-144	---	---	---	---	2,656E-01	6,195E-01
22	EU-152	---	---	---	---	1,592E-01	3,735E-01
23	EU-154	---	---	---	---	3,156E-01	7,498E-01
24	HG-203	---	---	---	---	4,918E-02	1,147E-01
25	TL-208	---	---	---	---	7,868E-02	1,848E-01
26	PB-210	---	---	---	---	1,120E+00	2,760E+00
27	PB-212	---	---	---	---	1,020E-01	2,366E-01
28	PB-214	---	---	---	---	1,448E-01	3,371E-01
29	BI-212	---	---	---	---	9,480E-01	2,243E+00
30	BI-214	---	---	---	---	1,574E-01	3,691E-01
31	RA-226	---	---	---	---	1,234E+00	2,855E+00
32	AC-228	---	---	---	---	3,135E-01	7,392E-01
33	TH-227	---	---	---	---	3,135E-01	7,709E-01
34	TH-230	---	---	---	---	1,056E+01	2,595E+01
35	TH-234	---	---	---	---	1,233E+00	3,204E+00
36	PA-234M	---	---	---	---	9,525E+00	2,255E+01
37	U-235	---	---	---	---	3,077E-01	7,147E-01
38	AM-241	---	---	---	---	9,582E-02	2,290E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 179

Auswertung des Gammaskopimetrischen: T2111131

Bezugsdatum:	18.11.2021 11:10:00	Detektor:	GMX4
Messdatum:	19.11.2021 09:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	79500 Sekunden	Messzeit: (real)	3600.51 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	4.328 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	19.11.2021 10:19:11	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20211118/01 PW2070 21/1993	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Mi	Isotop	Aktivität [Bq]	Faktor [%]	Faktor [Bq]	EW [keV]	NWG [Bq]
1	BE-7	---	---	---	1,246E+00	3,163E+00
2	K-40	2,855E+02	20,8	5,925E+01	1,839E+00	4,956E+00
3	MN-54	---	---	---	2,081E-01	5,248E-01
4	CO-57	---	---	---	1,107E-01	2,690E-01
5	CO-60	---	---	---	2,712E-01	6,983E-01
6	ZN-65	---	---	---	5,471E-01	1,371E+00
7	SE-75	---	---	---	2,528E-01	6,183E-01
8	SR-85	---	---	---	1,756E-01	4,356E-01
9	Y-88	---	---	---	1,445E-01	4,370E-01
10	NB-94	---	---	---	1,497E-01	3,948E-01
11	RU-106	---	---	---	1,956E+00	4,920E+00
12	AG-108M	---	---	---	2,556E-01	6,460E-01
13	AG-110M	---	---	---	2,334E-01	5,882E-01
14	CD-109	---	---	---	2,944E+00	7,122E+00
15	SN-113	---	---	---	1,742E-01	4,414E-01
16	SB-125	---	---	---	4,702E-01	1,179E+00
17	I-129	---	---	---	3,481E+00	9,016E+00
18	CS-134	---	---	---	2,105E-01	5,262E-01
19	CS-137	---	---	---	2,065E-01	5,204E-01
20	CE-139	---	---	---	1,364E-01	3,317E-01
21	CE-144	---	---	---	8,673E-01	2,110E+00
22	EU-152	---	---	---	5,635E-01	1,387E+00
23	EU-154	---	---	---	9,861E-01	2,514E+00
24	HG-203	---	---	---	1,564E-01	3,828E-01
25	TL-208	---	---	---	2,168E-01	5,461E-01
26	PB-210	---	---	---	4,490E+00	1,117E+01
27	PB-212	---	---	---	2,871E-01	6,976E-01
28	PB-214	---	---	---	3,514E-01	8,742E-01
29	BI-212	---	---	---	2,628E+00	6,700E+00
30	BI-214	---	---	---	4,686E-01	1,163E+00
31	RA-223	---	---	---	3,299E+00	8,117E+00
32	RA-226	---	---	---	2,904E+00	7,083E+00
33	AC-228	---	---	---	9,116E-01	2,288E+00
34	TH-227	---	---	---	9,213E-01	2,395E+00
35	TH-230	---	---	---	3,702E+01	9,296E+01
36	TH-234	---	---	---	3,462E+00	9,243E+00
37	PA-234M	---	---	---	2,489E+01	6,377E+01
38	U-235	---	---	---	8,915E-01	2,168E+00
39	AM-241	---	---	---	3,948E-01	9,597E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 180

Auswertung des Gammaskopimetrischen: T2112100

Bezugsdatum:	16.12.2021 09:10:00	Detektor:	GMX2
Messdatum:	17.12.2021 10:00:00	Messzeit: (life)	5400.00 s
Alter der Probe:	1.03 Tage	Messzeit: (real)	5400.88 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	3.725 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	17.12.2021 11:32:02	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750040/20211216/01 PW2084 21/2156	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Arbeitskonz.	Filter	Filter	ERG	MWG
		g/l	µg/l	g/l	Bq/l	µg/l
1	BE-7	---	---	---	1,411E+00	3,559E+00
2	K-40	2,372E+02	20,8	4,933E+01	3,623E+00	9,118E+00
3	MN-54	---	---	---	2,331E-01	5,882E-01
4	CO-57	---	---	---	1,108E-01	2,684E-01
5	CO-60	---	---	---	2,809E-01	7,316E-01
6	ZN-65	---	---	---	6,598E-01	1,646E+00
7	SE-75	---	---	---	2,670E-01	6,477E-01
8	SR-85	---	---	---	2,257E-01	5,515E-01
9	Y-88	---	---	---	1,697E-01	5,120E-01
10	NB-94	---	---	---	2,107E-01	5,396E-01
11	RU-106	---	---	---	2,328E+00	5,791E+00
12	AG-108M	---	---	---	2,690E-01	6,794E-01
13	AG-110M	---	---	---	2,410E-01	6,073E-01
14	CD-109	---	---	---	3,034E+00	7,324E+00
15	SN-113	---	---	---	2,457E-01	6,046E-01
16	SB-125	---	---	---	4,752E-01	1,195E+00
17	I-129	---	---	---	2,691E+00	7,218E+00
18	CS-134	---	---	---	2,095E-01	5,258E-01
19	CS-137	---	---	---	2,262E-01	5,702E-01
20	CE-139	---	---	---	1,248E-01	3,037E-01
21	CE-144	---	---	---	9,206E-01	2,223E+00
22	EU-152	---	---	---	6,029E-01	1,475E+00
23	EU-154	---	---	---	1,246E+00	3,117E+00
24	HG-203	---	---	---	1,651E-01	4,027E-01
25	TL-208	---	---	---	2,420E-01	6,050E-01
26	PB-210	---	---	---	4,299E+00	1,089E+01
27	PB-212	---	---	---	3,106E-01	7,503E-01
28	PB-214	---	---	---	4,475E-01	1,093E+00
29	BI-212	---	---	---	3,505E+00	8,758E+00
30	BI-214	---	---	---	4,836E-01	1,204E+00
31	RA-226	---	---	---	3,330E+00	8,029E+00
32	AC-228	---	---	---	1,102E+00	2,747E+00
33	TH-227	---	---	---	1,091E+00	2,790E+00
34	TH-230	---	---	---	3,641E+01	9,200E+01
35	TH-234	---	---	---	3,758E+00	1,007E+01
36	PA-234M	---	---	---	3,732E+01	9,287E+01
37	U-235	---	---	---	9,447E-01	2,281E+00
38	AM-241	---	---	---	3,541E-01	8,726E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 181

13 Messergebnisse Laugenmessstelle P750043

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 182

Auswertung des Gammaskopimetrischen: T2101055

Bezugsdatum:	11.01.2021 16:45:00	Detektor:	GMX5
Messdatum:	13.01.2021 12:24:25	Messzeit: (life)	1200.00 s
Alter der Probe:	1.82 Tage	Messzeit: (real)	1201.15 s
Probenmasse/Volumen:	0,1	Totzeit:	0.10 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	27.058 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	13.01.2021 12:46:49	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210111/01 21/0045	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Id	Isotop	Aktivität [Bq]	Fehler [%]	Wahrsch [Bq]	1/EC [Bq]	1/WC [Bq]
1	BE-7	---	---	---	2,562E+02	6,076E+02
2	K-40	4,801E+02	32,8	1,577E+02	1,388E+02	3,850E+02
3	MN-54	---	---	---	6,540E+00	1,970E+01
4	CO-57	---	---	---	1,170E+01	2,777E+01
5	CO-60	---	---	---	9,811E+00	2,962E+01
6	ZN-65	---	---	---	1,649E+01	4,943E+01
7	SE-75	---	---	---	2,576E+01	6,181E+01
8	SR-85	---	---	---	2,294E+01	5,517E+01
9	Y-88	---	---	---	1,312E+01	3,970E+01
10	NB-94	---	---	---	7,844E+00	2,278E+01
11	RU-106	---	---	---	1,575E+02	3,990E+02
12	AG-108M	---	---	---	7,672E+00	2,319E+01
13	AG-110M	---	---	---	1,948E+01	4,919E+01
14	CD-109	---	---	---	2,326E+02	5,559E+02
15	SN-113	---	---	---	2,910E+01	6,955E+01
16	SB-125	---	---	---	7,804E+01	1,869E+02
17	I-129	---	---	---	1,348E+02	3,292E+02
18	CS-134	---	---	---	1,399E+01	3,586E+01
19	CS-137	8,065E+03	20,4	1,648E+03	1,587E+01	4,059E+01
20	CE-139	---	---	---	1,355E+01	3,250E+01
21	CE-144	---	---	---	8,019E+01	1,918E+02
22	EU-152	---	---	---	6,457E+01	1,548E+02
23	EU-154	---	---	---	3,248E+01	9,813E+01
24	HG-203	---	---	---	1,735E+01	4,147E+01
25	TL-208	---	---	---	2,472E+01	6,056E+01
26	PB-210	---	---	---	2,108E+02	5,117E+02
27	PB-212	---	---	---	3,113E+01	7,400E+01
28	PB-214	---	---	---	4,956E+01	1,183E+02
29	BI-212	---	---	---	8,998E+01	2,710E+02
30	BI-214	---	---	---	3,414E+01	8,612E+01
31	RA-226	---	---	---	3,586E+02	8,481E+02
32	AC-228	---	---	---	2,702E+01	8,147E+01
33	TH-227	---	---	---	1,131E+02	2,851E+02
34	TH-230	---	---	---	2,121E+03	5,319E+03
35	TH-234	---	---	---	2,251E+02	5,939E+02
36	PA-234M	---	---	---	8,880E+02	2,677E+03
37	U-235	---	---	---	9,383E+01	2,229E+02
38	AM-241	---	---	---	2,242E+01	5,414E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 183

Auswertung des Gammaskopimetrischen: T2102080

Bezugsdatum:	16.02.2021 16:35:00	Detektor:	GMX5
Messdatum:	18.02.2021 10:35:00	Messzeit: (life)	900.00 s
Alter der Probe:	1.75 Tage	Messzeit: (real)	900.86 s
Probenmasse/Volumen:	0,1	Totzeit:	0.10 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	25.274 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	18.02.2021 11:02:16	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210216/01 21/0198	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Q (Wkt) [Bq]	Ratio [%]	Ratio [cpm]	Zählzeit [s]	MWC [cpm]
1	BE-7	---	---	---	3,067E+02	7,315E+02
2	K-40	6,579E+02	30,9	2,032E+02	1,337E+02	3,970E+02
3	MN-54	---	---	---	8,718E+00	2,626E+01
4	CO-57	---	---	---	1,170E+01	2,822E+01
5	CO-60	---	---	---	1,308E+01	3,949E+01
6	ZN-65	---	---	---	2,186E+01	6,561E+01
7	SE-75	---	---	---	2,989E+01	7,232E+01
8	SR-85	---	---	---	2,360E+01	5,778E+01
9	Y-88	---	---	---	1,748E+01	5,292E+01
10	NB-94	---	---	---	8,973E+00	2,702E+01
11	RU-106	---	---	---	1,861E+02	4,778E+02
12	AG-108M	---	---	---	1,023E+01	3,092E+01
13	AG-110M	---	---	---	2,034E+01	5,283E+01
14	CD-109	---	---	---	2,418E+02	5,869E+02
15	SN-113	---	---	---	2,843E+01	6,938E+01
16	SB-125	---	---	---	9,366E+01	2,257E+02
17	I-129	---	---	---	1,447E+02	3,589E+02
18	CS-134	---	---	---	1,855E+01	4,758E+01
19	CS-137	7,568E+03	20,5	1,548E+03	1,137E+01	3,206E+01
20	CE-139	---	---	---	1,513E+01	3,667E+01
21	CE-144	---	---	---	9,824E+01	2,361E+02
22	EU-152	---	---	---	7,462E+01	1,805E+02
23	EU-154	---	---	---	4,331E+01	1,308E+02
24	HG-203	---	---	---	1,929E+01	4,665E+01
25	TL-208	---	---	---	2,681E+01	6,685E+01
26	PB-210	---	---	---	2,704E+02	6,580E+02
27	PB-212	---	---	---	3,522E+01	8,449E+01
28	PB-214	---	---	---	5,391E+01	1,303E+02
29	BI-212	---	---	---	1,200E+02	3,614E+02
30	BI-214	---	---	---	4,840E+01	1,213E+02
31	RA-226	---	---	---	3,795E+02	9,084E+02
32	AC-228	---	---	---	3,678E+01	1,103E+02
33	TH-227	---	---	---	1,280E+02	3,257E+02
34	TH-230	---	---	---	2,706E+03	6,806E+03
35	TH-234	---	---	---	2,391E+02	6,401E+02
36	PA-234M	---	---	---	1,184E+03	3,570E+03
37	U-235	---	---	---	1,019E+02	2,448E+02
38	AM-241	---	---	---	2,813E+01	6,819E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 184

Auswertung des Gammaskopimetrischen: T2103085

Bezugsdatum:	15.03.2021 16:15:00	Detektor:	GMX4
Messdatum:	16.03.2021 12:35:29	Messzeit: (life)	900.00 s
Alter der Probe:	73229 Sekunden	Messzeit: (real)	900.28 s
Probenmasse/Volumen:	0,1	Totzeit:	0.03 %
Nuklidtabelle:	NW4_REF1.ISO	Zählrate:	12.452 cps
Ausbeutekurve:	NW4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW4_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2008T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.03.2021 12:51:31	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210315/01 21/0343	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AMVIAI (µg/l)	EMPA (Bq/l)	Faktor (Bq/l)	EMPA (µg/l)	NWA (µg/l)
1	BE-7	---	---	---	2,649E+02	6,528E+02
2	K-40	4,517E+02	39,1	1,768E+02	1,752E+02	5,107E+02
3	MN-54	---	---	---	1,125E+01	3,384E+01
4	CO-57	---	---	---	1,738E+01	4,224E+01
5	CO-60	---	---	---	1,581E+01	4,761E+01
6	ZN-65	---	---	---	2,725E+01	8,173E+01
7	SE-75	---	---	---	3,778E+01	9,224E+01
8	SR-85	---	---	---	2,594E+01	6,472E+01
9	Y-88	---	---	---	2,014E+01	6,067E+01
10	NB-94	---	---	---	1,154E+01	3,472E+01
11	RU-106	---	---	---	2,323E+02	5,993E+02
12	AG-108M	---	---	---	1,266E+01	3,823E+01
13	AG-110M	---	---	---	1,917E+01	5,182E+01
14	CD-109	---	---	---	3,516E+02	8,638E+02
15	SN-113	---	---	---	3,659E+01	9,017E+01
16	SB-125	---	---	---	9,831E+01	2,407E+02
17	I-129	---	---	---	2,221E+02	5,625E+02
18	CS-134	---	---	---	1,784E+01	4,772E+01
19	CS-137	5,040E+03	20,5	1,031E+03	1,567E+01	4,386E+01
20	CE-139	---	---	---	2,080E+01	5,073E+01
21	CE-144	---	---	---	1,321E+02	3,220E+02
22	EU-152	---	---	---	9,403E+01	2,297E+02
23	EU-154	---	---	---	5,495E+01	1,656E+02
24	HG-203	---	---	---	2,356E+01	5,794E+01
25	TL-208	---	---	---	1,991E+01	5,330E+01
26	PB-210	---	---	---	3,372E+02	8,471E+02
27	PB-212	---	---	---	4,295E+01	1,049E+02
28	PB-214	---	---	---	6,619E+01	1,622E+02
29	BI-212	---	---	---	1,568E+02	4,719E+02
30	BI-214	---	---	---	4,891E+01	1,262E+02
31	RA-226	---	---	---	5,428E+02	1,309E+03
32	AC-228	---	---	---	5,875E+01	1,671E+02
33	TH-227	---	---	---	1,503E+02	3,887E+02
34	TH-230	---	---	---	3,883E+03	9,907E+03
35	TH-234	---	---	---	4,193E+02	1,124E+03
36	PA-234M	---	---	---	1,504E+03	4,528E+03
37	U-235	---	---	---	1,241E+02	3,045E+02
38	AM-241	---	---	---	3,531E+01	8,795E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 185

Auswertung des Gammaskopimetrischen: T2104044

Bezugsdatum:	12.04.2021 15:42:00	Detektor:	GMX5
Messdatum:	14.04.2021 09:47:01	Messzeit: (life)	1200.00 s
Alter der Probe:	1.75 Tage	Messzeit: (real)	1201.03 s
Probenmasse/Volumen:	0,1	Totzeit:	0.09 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	22.591 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	14.04.2021 10:11:09	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210412/01 21/0503	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AKW (Bq)	F (Bq)	F (Bq)	EKG (Bq)	MVE (Bq)
1	BE-7	---	---	---	2,210E+02	5,283E+02
2	K-40	8,024E+02	27,7	2,219E+02	1,023E+02	3,023E+02
3	MN-54	---	---	---	6,550E+00	1,972E+01
4	CO-57	---	---	---	1,092E+01	2,599E+01
5	CO-60	---	---	---	9,811E+00	2,962E+01
6	ZN-65	---	---	---	1,897E+01	5,502E+01
7	SE-75	---	---	---	2,638E+01	6,320E+01
8	SR-85	---	---	---	1,871E+01	4,563E+01
9	Y-88	---	---	---	1,311E+01	3,969E+01
10	NB-94	---	---	---	6,730E+00	2,027E+01
11	RU-106	---	---	---	1,396E+02	3,583E+02
12	AG-108M	---	---	---	7,672E+00	2,319E+01
13	AG-110M	---	---	---	1,757E+01	4,487E+01
14	CD-109	---	---	---	2,201E+02	5,277E+02
15	SN-113	---	---	---	2,945E+01	7,035E+01
16	SB-125	---	---	---	7,618E+01	1,827E+02
17	I-129	---	---	---	1,374E+02	3,352E+02
18	CS-134	---	---	---	1,680E+01	4,221E+01
19	CS-137	6,655E+03	20,5	1,361E+03	1,270E+01	3,345E+01
20	CE-139	---	---	---	1,261E+01	3,035E+01
21	CE-144	---	---	---	7,839E+01	1,877E+02
22	EU-152	---	---	---	5,253E+01	1,277E+02
23	EU-154	---	---	---	3,248E+01	9,813E+01
24	HG-203	---	---	---	1,714E+01	4,100E+01
25	TL-208	---	---	---	2,074E+01	5,158E+01
26	PB-210	---	---	---	2,123E+02	5,151E+02
27	PB-212	---	---	---	2,740E+01	6,559E+01
28	PB-214	---	---	---	4,446E+01	1,068E+02
29	BI-212	---	---	---	1,130E+02	3,230E+02
30	BI-214	---	---	---	3,497E+01	8,800E+01
31	RA-226	---	---	---	3,483E+02	8,249E+02
32	AC-228	---	---	---	2,702E+01	8,147E+01
33	TH-227	---	---	---	1,154E+02	2,907E+02
34	TH-230	---	---	---	1,768E+03	4,488E+03
35	TH-234	---	---	---	2,241E+02	5,913E+02
36	PA-234M	---	---	---	8,880E+02	2,677E+03
37	U-235	---	---	---	8,146E+01	1,950E+02
38	AM-241	---	---	---	2,213E+01	5,348E+01

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 186

Auswertung des Gammaskopmetrischen: T2105077

Bezugsdatum:	11.05.2021 09:15:00	Detektor:	GMX5
Messdatum:	11.05.2021 14:15:00	Messzeit: (life)	1800.00 s
Alter der Probe:	18000 Sekunden	Messzeit: (real)	1801.53 s
Probenmasse/Volumen:	0,1	Totzeit:	0.08 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	22.167 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	UNW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	NN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	11.05.2021 14:47:22	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210511/01 21/0688	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

RI	Isotop	Aktivität (Bq)	Effizienz (%)	Zählrate (cps)	BKZ (Bq)	NWL (cps)
1	BE-7	---	---	---	2,022E+02	4,755E+02
2	K-40	5,279E+02	28,1	1,484E+02	8,561E+01	2,409E+02
3	MN-54	---	---	---	6,576E+00	1,812E+01
4	CO-57	---	---	---	8,007E+00	1,897E+01
5	CO-60	---	---	---	7,511E+00	2,194E+01
6	ZN-65	---	---	---	1,270E+01	3,677E+01
7	SE-75	---	---	---	2,097E+01	4,977E+01
8	SR-85	---	---	---	1,664E+01	3,978E+01
9	Y-88	---	---	---	8,654E+00	2,619E+01
10	NB-94	---	---	---	4,490E+00	1,352E+01
11	RU-106	---	---	---	1,186E+02	2,967E+02
12	AG-108M	---	---	---	5,220E+00	1,570E+01
13	AG-110M	---	---	---	1,352E+01	3,399E+01
14	CD-109	---	---	---	1,770E+02	4,201E+02
15	SN-113	---	---	---	2,209E+01	5,241E+01
16	SB-125	---	---	---	6,028E+01	1,433E+02
17	I-129	---	---	---	1,045E+02	2,530E+02
18	CS-134	---	---	---	1,426E+01	3,505E+01
19	CS-137	6,590E+03	20,4	1,346E+03	9,497E+00	2,462E+01
20	CE-139	---	---	---	9,874E+00	2,356E+01
21	CE-144	---	---	---	6,182E+01	1,467E+02
22	EU-152	---	---	---	4,919E+01	1,171E+02
23	EU-154	---	---	---	2,209E+01	6,641E+01
24	HG-203	---	---	---	1,307E+01	3,100E+01
25	TL-208	---	---	---	1,814E+01	4,413E+01
26	PB-210	---	---	---	1,582E+02	3,815E+02
27	PB-212	---	---	---	2,449E+01	5,776E+01
28	PB-214	---	---	---	3,495E+01	8,316E+01
29	BI-212	---	---	---	8,670E+01	2,409E+02
30	BI-214	---	---	---	3,396E+01	8,270E+01
31	RA-226	---	---	---	2,861E+02	6,715E+02
32	AC-228	---	---	---	1,822E+01	5,477E+01
33	TH-227	---	---	---	8,242E+01	2,068E+02
34	TH-230	---	---	---	1,504E+03	3,759E+03
35	TH-234	---	---	---	1,653E+02	4,338E+02
36	PA-234M	---	---	---	5,920E+02	1,785E+03
37	U-235	---	---	---	6,412E+01	1,521E+02
38	AM-241	---	---	---	1,613E+01	3,877E+01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 187

Auswertung des Gammaskpektrums: T2106157

Bezugsdatum:	14.06.2021 16:00:00	Detektor:	GMX5
Messdatum:	15.06.2021 11:34:05	Messzeit: (life)	900.00 s
Alter der Probe:	70445 Sekunden	Messzeit: (real)	900.62 s
Probenmasse/Volumen:	0,1	Totzeit:	0.07 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	17.411 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	15.06.2021 11:50:41	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210614/01 21/0934	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Anteil [%]	Isotop [Bq]	ENP [Bq]	HWZ [Bq]
1	BE-7	---	---	---	2,233E+02	5,430E+02
2	K-40	4,746E+02	34,2	1,625E+02	1,705E+02	4,803E+02
3	MN-54	---	---	---	8,700E+00	2,620E+01
4	CO-57	---	---	---	9,874E+00	2,409E+01
5	CO-60	---	---	---	1,308E+01	3,948E+01
6	ZN-65	---	---	---	2,180E+01	6,544E+01
7	SE-75	---	---	---	2,333E+01	5,744E+01
8	SR-85	---	---	---	2,106E+01	5,203E+01
9	Y-88	---	---	---	1,738E+01	5,259E+01
10	NB-94	---	---	---	1,037E+01	3,017E+01
11	RU-106	---	---	---	1,596E+02	4,179E+02
12	AG-108M	---	---	---	1,023E+01	3,092E+01
13	AG-110M	---	---	---	1,794E+01	4,738E+01
14	CD-109	---	---	---	2,242E+02	5,472E+02
15	SN-113	---	---	---	2,946E+01	7,168E+01
16	SB-125	---	---	---	7,780E+01	1,897E+02
17	I-129	---	---	---	1,238E+02	3,112E+02
18	CS-134	---	---	---	2,251E+01	5,652E+01
19	CS-137	5,192E+03	20,5	1,064E+03	1,112E+01	3,149E+01
20	CE-139	---	---	---	1,227E+01	3,015E+01
21	CE-144	---	---	---	9,018E+01	2,179E+02
22	EU-152	---	---	---	5,938E+01	1,462E+02
23	EU-154	---	---	---	4,330E+01	1,308E+02
24	HG-203	---	---	---	1,746E+01	4,247E+01
25	TL-208	---	---	---	2,479E+01	6,230E+01
26	PB-210	---	---	---	2,150E+02	5,322E+02
27	PB-212	---	---	---	2,959E+01	7,179E+01
28	PB-214	---	---	---	5,213E+01	1,263E+02
29	BI-212	---	---	---	1,416E+02	4,101E+02
30	BI-214	---	---	---	4,168E+01	1,062E+02
31	RA-226	---	---	---	3,474E+02	8,360E+02
32	AC-228	---	---	---	3,603E+01	1,086E+02
33	TH-227	---	---	---	1,209E+02	3,088E+02
34	TH-230	---	---	---	1,937E+03	4,994E+03
35	TH-234	---	---	---	2,033E+02	5,512E+02
36	PA-234M	---	---	---	1,184E+03	3,570E+03
37	U-235	---	---	---	8,010E+01	1,956E+02
38	AM-241	---	---	---	2,153E+01	5,324E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 188

Auswertung des Gammaskopimetrischen: T2107074

Bezugsdatum:	12.07.2021 16:25:00	Detektor:	GMX5
Messdatum:	13.07.2021 12:01:37	Messzeit: (life)	1800.00 s
Alter der Probe:	70597 Sekunden	Messzeit: (real)	1801.27 s
Probenmasse/Volumen:	0,1	Totzeit:	0.07 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	17.662 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L04.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	13.07.2021 12:35:49	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20210712/01 21/1184	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Bezeichnung	Altersfaktor	Faktor	Faktor	EW	MW
		[a/b]	[a/b]	[a/b]	[a/b]	[a/b]
1	BE-7	---	---	---	1,933E+02	4,587E+02
2	K-40	5,663E+02	28,3	1,601E+02	7,525E+01	2,206E+02
3	MN-54	---	---	---	4,682E+00	1,413E+01
4	CO-57	---	---	---	8,078E+00	1,954E+01
5	CO-60	---	---	---	6,962E+00	2,104E+01
6	ZN-65	---	---	---	1,184E+01	3,543E+01
7	SE-75	---	---	---	2,014E+01	4,840E+01
8	SR-85	---	---	---	1,530E+01	3,707E+01
9	Y-88	---	---	---	9,180E+00	2,779E+01
10	NB-94	---	---	---	4,828E+00	1,456E+01
11	RU-106	---	---	---	1,425E+02	3,540E+02
12	AG-108M	---	---	---	6,509E+00	1,897E+01
13	AG-110M	---	---	---	1,734E+01	4,300E+01
14	CD-109	---	---	---	2,071E+02	5,043E+02
15	SN-113	---	---	---	2,189E+01	5,242E+01
16	SB-125	---	---	---	5,970E+01	1,431E+02
17	I-129	---	---	---	1,500E+02	4,391E+02
18	CS-134	---	---	---	1,441E+01	3,570E+01
19	CS-137	5,523E+03	20,6	1,139E+03	1,171E+01	2,993E+01
20	CE-139	---	---	---	1,089E+01	2,626E+01
21	CE-144	---	---	---	6,569E+01	1,584E+02
22	EU-152	---	---	---	4,592E+01	1,108E+02
23	EU-154	---	---	---	2,756E+01	8,025E+01
24	HG-203	---	---	---	1,279E+01	3,072E+01
25	TL-208	---	---	---	1,725E+01	4,248E+01
26	PB-210	---	---	---	2,051E+02	5,582E+02
27	PB-212	---	---	---	2,304E+01	5,510E+01
28	PB-214	---	---	---	3,697E+01	8,849E+01
29	BI-212	---	---	---	7,644E+01	2,219E+02
30	BI-214	---	---	---	3,121E+01	7,719E+01
31	RA-226	---	---	---	2,849E+02	6,774E+02
32	AC-228	---	---	---	1,935E+01	5,843E+01
33	TH-227	---	---	---	8,852E+01	2,240E+02
34	TH-230	---	---	---	1,906E+03	4,983E+03
35	TH-234	---	---	---	1,943E+02	5,418E+02
36	PA-234M	---	---	---	8,010E+02	2,292E+03
37	U-235	---	---	---	6,922E+01	1,665E+02
38	AM-241	---	---	---	1,980E+01	5,070E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 189

Auswertung des Gammaskopimetrischen: T2108054

Bezugsdatum:	09.08.2021 15:30:00	Detektor:	GMX6
Messdatum:	10.08.2021 12:10:00	Messzeit: (life)	5400.00 s
Alter der Probe:	74400 Sekunden	Messzeit: (real)	5403.96 s
Probenmasse/Volumen:	0,1	Totzeit:	0.07 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	16.604 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L02.ABS vom 15.10.2018 15:20:49	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	10.08.2021 13:43:41	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750043/20210809/01 21/1465	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Zählrate [cps]	Faktor [%]	Korrektur [cps]	FWHM [keV]	MW [cps]
1	BE-7	---	---	---	1,300E+02	3,015E+02
2	K-40	5,929E+02	23,1	1,367E+02	3,559E+01	9,818E+01
3	MN-54	---	---	---	2,413E+00	6,739E+00
4	CO-57	---	---	---	6,675E+00	1,555E+01
5	CO-60	---	---	---	4,353E+00	1,167E+01
6	ZN-65	---	---	---	8,314E+00	2,188E+01
7	SE-75	---	---	---	1,532E+01	3,574E+01
8	SR-85	---	---	---	1,012E+01	2,378E+01
9	Y-88	---	---	---	3,894E+00	1,111E+01
10	NB-94	---	---	---	3,061E+00	8,233E+00
11	RU-106	---	---	---	8,435E+01	2,020E+02
12	AG-108M	---	---	---	4,013E+00	1,055E+01
13	AG-110M	---	---	---	9,108E+00	2,191E+01
14	CD-109	---	---	---	1,474E+02	3,443E+02
15	SN-113	---	---	---	1,603E+01	3,735E+01
16	SB-125	---	---	---	4,134E+01	9,627E+01
17	I-129	---	---	---	8,875E+01	2,149E+02
18	CS-134	---	---	---	8,275E+00	1,982E+01
19	CS-137	6,768E+03	20,3	1,377E+03	7,083E+00	1,727E+01
20	CE-139	---	---	---	8,674E+00	2,021E+01
21	CE-144	---	---	---	5,380E+01	1,254E+02
22	EU-152	---	---	---	3,712E+01	8,657E+01
23	EU-154	---	---	---	1,592E+01	4,229E+01
24	HG-203	---	---	---	1,066E+01	2,482E+01
25	TL-208	---	---	---	1,065E+01	2,532E+01
26	PB-210	---	---	---	1,279E+02	3,069E+02
27	PB-212	---	---	---	1,871E+01	4,351E+01
28	PB-214	---	---	---	2,702E+01	6,302E+01
29	BI-212	---	---	---	3,800E+01	1,038E+02
30	BI-214	---	---	---	1,942E+01	4,622E+01
31	RA-226	---	---	---	2,325E+02	5,386E+02
32	AC-228	---	---	---	1,158E+01	3,144E+01
33	TH-227	---	---	---	6,958E+01	1,707E+02
34	TH-230	---	---	---	1,449E+03	3,545E+03
35	TH-234	---	---	---	1,490E+02	3,846E+02
36	PA-234M	---	---	---	3,887E+02	1,052E+03
37	U-235	---	---	---	5,531E+01	1,288E+02
38	AM-241	---	---	---	1,463E+01	3,456E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 190

Auswertung des Gammaskopimetrischen: T2109081

Bezugsdatum:	13.09.2021 15:40:00	Detektor:	GMX6
Messdatum:	15.09.2021 12:00:00	Messzeit: (life)	1200.00 s
Alter der Probe:	1.85 Tage	Messzeit: (real)	1200.78 s
Probenmasse/Volumen:	0,1	Totzeit:	0.07 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	14.239 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	15.09.2021 12:29:57	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750043/20210913/01 21/1640	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Zeit [min]	Faktor [Bq]	EWG [Bq]	NWG [Bq]
1	BE-7	---	---	---	2,297E+02	5,577E+02
2	K-40	5,855E+02	30,8	1,806E+02	1,175E+02	3,456E+02
3	MN-54	---	---	---	7,769E+00	2,338E+01
4	CO-57	---	---	---	1,260E+01	3,062E+01
5	CO-60	---	---	---	1,104E+01	3,326E+01
6	ZN-65	---	---	---	1,954E+01	5,824E+01
7	SE-75	---	---	---	3,169E+01	7,680E+01
8	SR-85	---	---	---	1,993E+01	4,935E+01
9	Y-88	---	---	---	1,381E+01	4,166E+01
10	NB-94	---	---	---	7,962E+00	2,396E+01
11	RU-106	---	---	---	1,373E+02	3,620E+02
12	AG-108M	---	---	---	8,728E+00	2,637E+01
13	AG-110M	---	---	---	1,195E+01	3,298E+01
14	CD-109	---	---	---	3,243E+02	7,828E+02
15	SN-113	---	---	---	2,963E+01	7,238E+01
16	SB-125	---	---	---	8,656E+01	2,088E+02
17	I-129	---	---	---	1,987E+02	5,018E+02
18	CS-134	---	---	---	1,987E+01	5,001E+01
19	CS-137	5,624E+03	20,4	1,148E+03	7,837E+00	2,358E+01
20	CE-139	---	---	---	1,828E+01	4,408E+01
21	CE-144	---	---	---	1,042E+02	2,527E+02
22	EU-152	---	---	---	7,457E+01	1,812E+02
23	EU-154	---	---	---	3,793E+01	1,143E+02
24	HG-203	---	---	---	2,043E+01	4,971E+01
25	TL-208	---	---	---	1,879E+01	4,824E+01
26	PB-210	---	---	---	2,759E+02	6,932E+02
27	PB-212	---	---	---	3,850E+01	9,285E+01
28	PB-214	---	---	---	6,240E+01	1,502E+02
29	BI-212	---	---	---	1,081E+02	3,253E+02
30	BI-214	---	---	---	4,357E+01	1,093E+02
31	RA-226	---	---	---	4,704E+02	1,125E+03
32	AC-228	---	---	---	3,166E+01	9,536E+01
33	TH-227	---	---	---	1,357E+02	3,464E+02
34	TH-230	---	---	---	2,944E+03	7,498E+03
35	TH-234	---	---	---	2,502E+02	6,829E+02
36	PA-234M	---	---	---	1,043E+03	3,141E+03
37	U-235	---	---	---	9,559E+01	2,338E+02
38	AM-241	---	---	---	2,702E+01	6,729E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 191

Auswertung des Gammaskopimetrischen: T2110064

Bezugsdatum:	11.10.2021 14:30:00	Detektor:	GMX5
Messdatum:	12.10.2021 12:02:16	Messzeit: (life)	900.00 s
Alter der Probe:	77536 Sekunden	Messzeit: (real)	900.71 s
Probenmasse/Volumen:	0,1	Totzeit:	0.08 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	20.924 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	12.10.2021 12:25:49	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20211011/01 21/1790	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq/l]	Relativ [%]	Gamma [cpd]	EKG [keV]	NW4 [cpd]
1	BE-7	---	---	---	2,254E+02	5,478E+02
2	K-40	3,743E+02	39,2	1,466E+02	1,523E+02	4,391E+02
3	MN-54	---	---	---	8,702E+00	2,621E+01
4	CO-57	---	---	---	1,178E+01	2,840E+01
5	CO-60	---	---	---	1,308E+01	3,948E+01
6	ZN-65	---	---	---	2,185E+01	6,556E+01
7	SE-75	---	---	---	2,635E+01	6,428E+01
8	SR-85	---	---	---	2,506E+01	6,105E+01
9	Y-88	---	---	---	1,739E+01	5,262E+01
10	NB-94	---	---	---	8,973E+00	2,702E+01
11	RU-106	---	---	---	1,706E+02	4,426E+02
12	AG-108M	---	---	---	1,043E+01	3,138E+01
13	AG-110M	---	---	---	1,993E+01	5,188E+01
14	CD-109	---	---	---	2,386E+02	5,798E+02
15	SN-113	---	---	---	3,595E+01	8,630E+01
16	SB-125	---	---	---	9,156E+01	2,209E+02
17	I-129	---	---	---	1,287E+02	3,223E+02
18	CS-134	---	---	---	1,473E+01	3,895E+01
19	CS-137	6,010E+03	20,5	1,231E+03	1,326E+01	3,632E+01
20	CE-139	---	---	---	1,602E+01	3,866E+01
21	CE-144	---	---	---	8,479E+01	2,057E+02
22	EU-152	---	---	---	7,199E+01	1,746E+02
23	EU-154	---	---	---	4,416E+01	1,328E+02
24	HG-203	---	---	---	1,731E+01	4,214E+01
25	TL-208	---	---	---	2,293E+01	5,811E+01
26	PB-210	---	---	---	2,120E+02	5,253E+02
27	PB-212	---	---	---	2,845E+01	6,922E+01
28	PB-214	---	---	---	5,671E+01	1,366E+02
29	BI-212	---	---	---	1,200E+02	3,614E+02
30	BI-214	---	---	---	4,355E+01	1,104E+02
31	RA-226	---	---	---	4,110E+02	9,794E+02
32	AC-228	---	---	---	3,603E+01	1,086E+02
33	TH-227	---	---	---	1,236E+02	3,153E+02
34	TH-230	---	---	---	2,072E+03	5,312E+03
35	TH-234	---	---	---	2,287E+02	6,143E+02
36	PA-234M	---	---	---	1,184E+03	3,570E+03
37	U-235	---	---	---	9,095E+01	2,201E+02
38	AM-241	---	---	---	2,268E+01	5,585E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 192

Auswertung des Gammaskopimetrischen: T2111094

Bezugsdatum:	15.11.2021 15:45:00	Detektor:	GMX5
Messdatum:	16.11.2021 11:24:34	Messzeit: (life)	800.00 s
Alter der Probe:	70774 Sekunden	Messzeit: (real)	800.53 s
Probenmasse/Volumen:	0,1	Totzeit:	0.07 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	17.501 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	16.11.2021 11:44:10	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750043/20211115/01 21/1957	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Erwartete Zählrate (cps)	Faktor (%)	Erhaltene Zählrate (cps)	ERG Zählrate (cps)	NWG Zählrate (cps)
1	BE-7	---	---	---	2,214E+02	5,436E+02
2	K-40	5,202E+02	38,3	1,992E+02	2,190E+02	6,018E+02
3	MN-54	---	---	---	9,788E+00	2,948E+01
4	CO-57	---	---	---	1,110E+01	2,708E+01
5	CO-60	---	---	---	1,471E+01	4,441E+01
6	ZN-65	---	---	---	2,448E+01	7,352E+01
7	SE-75	---	---	---	2,837E+01	6,943E+01
8	SR-85	---	---	---	2,232E+01	5,544E+01
9	Y-88	---	---	---	1,955E+01	5,917E+01
10	NB-94	---	---	---	1,010E+01	3,040E+01
11	RU-106	---	---	---	1,661E+02	4,397E+02
12	AG-108M	---	---	---	1,151E+01	3,479E+01
13	AG-110M	---	---	---	1,581E+01	4,339E+01
14	CD-109	---	---	---	2,345E+02	5,756E+02
15	SN-113	---	---	---	2,992E+01	7,338E+01
16	SB-125	---	---	---	9,159E+01	2,226E+02
17	I-129	---	---	---	1,146E+02	2,935E+02
18	CS-134	---	---	---	1,756E+01	4,607E+01
19	CS-137	4,928E+03	20,5	1,011E+03	1,038E+01	3,062E+01
20	CE-139	---	---	---	1,683E+01	4,081E+01
21	CE-144	---	---	---	9,968E+01	2,412E+02
22	EU-152	---	---	---	6,505E+01	1,605E+02
23	EU-154	---	---	---	4,871E+01	1,472E+02
24	HG-203	---	---	---	1,761E+01	4,319E+01
25	TL-208	---	---	---	2,171E+01	5,614E+01
26	PB-210	---	---	---	1,821E+02	4,627E+02
27	PB-212	---	---	---	3,295E+01	8,000E+01
28	PB-214	---	---	---	4,896E+01	1,202E+02
29	BI-212	---	---	---	1,350E+02	4,065E+02
30	BI-214	---	---	---	5,084E+01	1,284E+02
31	RA-226	---	---	---	4,244E+02	1,016E+03
32	AC-228	---	---	---	4,054E+01	1,222E+02
33	TH-227	---	---	---	1,213E+02	3,123E+02
34	TH-230	---	---	---	2,474E+03	6,312E+03
35	TH-234	---	---	---	1,987E+02	5,455E+02
36	PA-234M	---	---	---	1,332E+03	4,016E+03
37	U-235	---	---	---	9,939E+01	2,410E+02
38	AM-241	---	---	---	2,577E+01	6,340E+01

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 193

Auswertung des Gammaskpektrums: T2112078

Bezugsdatum:	13.12.2021 16:30:00	Detektor:	GMX6
Messdatum:	14.12.2021 13:00:00	Messzeit: (life)	1000.00 s
Alter der Probe:	73800 Sekunden	Messzeit: (real)	1000.68 s
Probenmasse/Volumen:	0,1	Totzeit:	0.07 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	15.859 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	14.12.2021 13:18:55	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750043/20211213/01 21/2132	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Atomzahl Z	Halbwertszeit T _{1/2}	Lebensdauer τ	BWG B _{eff}	NW/G B _{eff}
1	BE-7	---	---	---	3,048E+02	7,342E+02
2	K-40	5,751E+02	33,9	1,951E+02	1,619E+02	4,620E+02
3	MN-54	---	---	---	9,302E+00	2,799E+01
4	CO-57	---	---	---	1,648E+01	3,980E+01
5	CO-60	---	---	---	1,357E+01	4,063E+01
6	ZN-65	---	---	---	2,323E+01	6,935E+01
7	SE-75	---	---	---	3,500E+01	8,531E+01
8	SR-85	---	---	---	2,344E+01	5,809E+01
9	Y-88	---	---	---	1,647E+01	4,967E+01
10	NB-94	---	---	---	9,555E+00	2,875E+01
11	RU-106	---	---	---	1,502E+02	4,012E+02
12	AG-108M	---	---	---	1,047E+01	3,165E+01
13	AG-110M	---	---	---	1,814E+01	4,815E+01
14	CD-109	---	---	---	3,126E+02	7,663E+02
15	SN-113	---	---	---	3,968E+01	9,611E+01
16	SB-125	---	---	---	8,728E+01	2,131E+02
17	I-129	---	---	---	2,124E+02	5,418E+02
18	CS-134	---	---	---	1,845E+01	4,785E+01
19	CS-137	6,391E+03	20,4	1,305E+03	1,517E+01	4,128E+01
20	CE-139	---	---	---	1,903E+01	4,631E+01
21	CE-144	---	---	---	1,294E+02	3,129E+02
22	EU-152	---	---	---	8,368E+01	2,044E+02
23	EU-154	---	---	---	4,551E+01	1,371E+02
24	HG-203	---	---	---	2,434E+01	5,919E+01
25	TL-208	---	---	---	1,917E+01	5,025E+01
26	PB-210	---	---	---	3,164E+02	7,982E+02
27	PB-212	---	---	---	4,204E+01	1,020E+02
28	PB-214	---	---	---	6,743E+01	1,634E+02
29	BI-212	---	---	---	1,297E+02	3,904E+02
30	BI-214	---	---	---	4,914E+01	1,240E+02
31	RA-226	---	---	---	5,296E+02	1,271E+03
32	AC-228	---	---	---	3,799E+01	1,144E+02
33	TH-227	---	---	---	1,696E+02	4,318E+02
34	TH-230	---	---	---	3,110E+03	8,000E+03
35	TH-234	---	---	---	2,912E+02	7,970E+02
36	PA-234M	---	---	---	1,251E+03	3,769E+03
37	U-235	---	---	---	1,348E+02	3,257E+02
38	AM-241	---	---	---	3,052E+01	7,640E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 194

14 Messergebnisse Laugenmessstelle P750071

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 195

Auswertung des Gammaskopimetrischen: T2101057

Bezugsdatum:	11.01.2021 15:35:00	Detektor:	GMX5
Messdatum:	13.01.2021 12:50:41	Messzeit: (life)	1800.00 s
Alter der Probe:	1.89 Tage	Messzeit: (real)	1802.10 s
Probenmasse/Volumen:	0,1	Totzeit:	0.12 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	32.892 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	13.01.2021 13:36:29	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210111/01 21/0046	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Amplitude (cps)	Lebensdauer (s)	Lebensdauer (min)	ERG (cps)	WWT (cps)
1	BE-7	---	---	---	2,286E+02	5,353E+02
2	K-40	---	---	---	1,303E+02	3,419E+02
3	MN-54	---	---	---	6,662E+00	1,832E+01
4	CO-57	---	---	---	1,036E+01	2,429E+01
5	CO-60	---	---	---	6,541E+00	1,975E+01
6	ZN-65	---	---	---	1,417E+01	4,012E+01
7	SE-75	---	---	---	2,547E+01	5,998E+01
8	SR-85	---	---	---	2,062E+01	4,879E+01
9	Y-88	---	---	---	8,749E+00	2,648E+01
10	NB-94	---	---	---	4,487E+00	1,351E+01
11	RU-106	---	---	---	1,533E+02	3,752E+02
12	AG-108M	---	---	---	5,731E+00	1,686E+01
13	AG-110M	---	---	---	1,719E+01	4,230E+01
14	CD-109	---	---	---	2,072E+02	4,884E+02
15	SN-113	---	---	---	2,729E+01	6,415E+01
16	SB-125	---	---	---	7,256E+01	1,712E+02
17	I-129	---	---	---	1,320E+02	3,158E+02
18	CS-134	---	---	---	1,544E+01	3,770E+01
19	CS-137	9,808E+03	20,4	2,002E+03	1,143E+01	2,897E+01
20	CE-139	---	---	---	1,216E+01	2,875E+01
21	CE-144	---	---	---	8,102E+01	1,901E+02
22	EU-152	---	---	---	6,348E+01	1,493E+02
23	EU-154	---	---	---	2,713E+01	7,781E+01
24	HG-203	---	---	---	1,717E+01	4,028E+01
25	TL-208	---	---	---	1,893E+01	4,590E+01
26	PB-210	---	---	---	1,904E+02	4,546E+02
27	PB-212	---	---	---	2,942E+01	6,886E+01
28	PB-214	---	---	---	4,458E+01	1,049E+02
29	BI-212	---	---	---	6,730E+01	1,972E+02
30	BI-214	---	---	---	3,717E+01	8,995E+01
31	RA-226	---	---	---	3,447E+02	8,038E+02
32	AC-228	---	---	---	1,836E+01	5,509E+01
33	TH-227	---	---	---	1,119E+02	2,773E+02
34	TH-230	---	---	---	2,084E+03	5,125E+03
35	TH-234	---	---	---	1,982E+02	5,156E+02
36	PA-234M	---	---	---	5,920E+02	1,785E+03
37	U-235	---	---	---	8,456E+01	1,982E+02
38	AM-241	---	---	---	2,215E+01	5,241E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 196

Auswertung des Gammaskopimetrischen: T2102079

Bezugsdatum:	16.02.2021 16:55:00	Detektor:	GMX5
Messdatum:	18.02.2021 09:45:00	Messzeit: (life)	900.00 s
Alter der Probe:	1.70 Tage	Messzeit: (real)	900.89 s
Probenmasse/Volumen:	0,1	Totzeit:	0.10 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	26.437 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	18.02.2021 10:08:53	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210216/01 21/0195	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	aktivität [Bq]	Faktor [s]	Faktor [Bq]	ERG [Dose]	rwk [Bq]
1	BE-7	---	---	---	2,928E+02	7,000E+02
2	K-40	---	---	---	2,113E+02	5,724E+02
3	MN-54	---	---	---	8,717E+00	2,625E+01
4	CO-57	---	---	---	1,179E+01	2,842E+01
5	CO-60	---	---	---	1,308E+01	3,949E+01
6	ZN-65	---	---	---	2,186E+01	6,560E+01
7	SE-75	---	---	---	2,965E+01	7,178E+01
8	SR-85	---	---	---	2,151E+01	5,308E+01
9	Y-88	---	---	---	1,748E+01	5,290E+01
10	NB-94	---	---	---	8,973E+00	2,702E+01
11	RU-106	---	---	---	1,961E+02	5,005E+02
12	AG-108M	---	---	---	1,023E+01	3,092E+01
13	AG-110M	---	---	---	2,090E+01	5,409E+01
14	CD-109	---	---	---	2,541E+02	6,147E+02
15	SN-113	---	---	---	3,568E+01	8,571E+01
16	SB-125	---	---	---	9,445E+01	2,275E+02
17	I-129	---	---	---	1,711E+02	4,194E+02
18	CS-134	---	---	---	2,097E+01	5,304E+01
19	CS-137	8,149E+03	20,5	1,667E+03	1,568E+01	4,177E+01
20	CE-139	---	---	---	1,645E+01	3,965E+01
21	CE-144	---	---	---	1,009E+02	2,421E+02
22	EU-152	---	---	---	7,672E+01	1,853E+02
23	EU-154	---	---	---	4,331E+01	1,308E+02
24	HG-203	---	---	---	2,181E+01	5,231E+01
25	TL-208	---	---	---	2,637E+01	6,587E+01
26	PB-210	---	---	---	2,571E+02	6,278E+02
27	PB-212	---	---	---	3,315E+01	7,983E+01
28	PB-214	---	---	---	5,672E+01	1,366E+02
29	BI-212	---	---	---	1,200E+02	3,614E+02
30	BI-214	---	---	---	3,508E+01	9,125E+01
31	RA-226	---	---	---	4,736E+02	1,121E+03
32	AC-228	---	---	---	3,603E+01	1,086E+02
33	TH-227	---	---	---	1,347E+02	3,418E+02
34	TH-230	---	---	---	2,724E+03	6,848E+03
35	TH-234	---	---	---	2,650E+02	7,043E+02
36	PA-234M	---	---	---	1,184E+03	3,570E+03
37	U-235	---	---	---	1,118E+02	2,672E+02
38	AM-241	---	---	---	2,988E+01	7,217E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 197

Auswertung des Gammaskpektrums: T2103086

Bezugsdatum:	15.03.2021 15:40:00	Detektor:	GMX4
Messdatum:	16.03.2021 12:55:17	Messzeit: (life)	900.00 s
Alter der Probe:	76517 Sekunden	Messzeit: (real)	900.45 s
Probenmasse/Volumen:	0,1	Totzeit:	0.05 %
Nuklidtabelle:	NW4_REF1.ISO	Zählrate:	21.381 cps
Ausbeutekurve:	NW4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW4_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2008T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.03.2021 14:18:20	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210315/01 21/0344	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Fehler (%)	Fehler (Bq)	RME (Bq)	MWG (Bq)
1	BE-7	---	---	---	3,616E+02	8,705E+02
2	K-40	---	---	---	2,500E+02	6,795E+02
3	MN-54	---	---	---	1,125E+01	3,384E+01
4	CO-57	---	---	---	2,313E+01	5,522E+01
5	CO-60	---	---	---	1,581E+01	4,761E+01
6	ZN-65	---	---	---	2,725E+01	8,174E+01
7	SE-75	---	---	---	4,612E+01	1,111E+02
8	SR-85	---	---	---	3,116E+01	7,649E+01
9	Y-88	---	---	---	2,015E+01	6,069E+01
10	NB-94	---	---	---	1,154E+01	3,472E+01
11	RU-106	---	---	---	2,761E+02	6,981E+02
12	AG-108M	---	---	---	1,287E+01	3,871E+01
13	AG-110M	---	---	---	1,908E+01	5,162E+01
14	CD-109	---	---	---	4,726E+02	1,138E+03
15	SN-113	---	---	---	5,073E+01	1,220E+02
16	SB-125	---	---	---	1,247E+02	3,002E+02
17	I-129	---	---	---	2,665E+02	6,656E+02
18	CS-134	---	---	---	2,764E+01	6,982E+01
19	CS-137	9,049E+03	20,4	1,846E+03	1,135E+01	3,415E+01
20	CE-139	---	---	---	2,699E+01	6,472E+01
21	CE-144	---	---	---	1,721E+02	4,124E+02
22	EU-152	---	---	---	1,031E+02	2,503E+02
23	EU-154	---	---	---	5,495E+01	1,656E+02
24	HG-203	---	---	---	3,418E+01	8,186E+01
25	TL-208	---	---	---	3,148E+01	7,940E+01
26	PB-210	---	---	---	4,365E+02	1,075E+03
27	PB-212	---	---	---	5,730E+01	1,372E+02
28	PB-214	---	---	---	8,066E+01	1,948E+02
29	BI-212	---	---	---	1,568E+02	4,719E+02
30	BI-214	---	---	---	5,711E+01	1,446E+02
31	RA-226	---	---	---	6,657E+02	1,587E+03
32	AC-228	---	---	---	4,582E+01	1,380E+02
33	TH-227	---	---	---	2,100E+02	5,308E+02
34	TH-230	---	---	---	4,767E+03	1,200E+04
35	TH-234	---	---	---	4,654E+02	1,240E+03
36	PA-234M	---	---	---	1,504E+03	4,528E+03
37	U-235	---	---	---	1,705E+02	4,094E+02
38	AM-241	---	---	---	4,921E+01	1,196E+02

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 198

Auswertung des Gammaskopimetrischen: T2104045

Bezugsdatum:	12.04.2021 15:10:00	Detektor:	GMX5
Messdatum:	14.04.2021 10:15:44	Messzeit: (life)	1200.00 s
Alter der Probe:	1.80 Tage	Messzeit: (real)	1201.26 s
Probenmasse/Volumen:	0,1	Totzeit:	0.10 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	27.933 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	14.04.2021 10:37:38	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210412/01 21/0504	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [dpm]	Fehler [%]	Fehler [dpm]	EKT [Bq/l]	MWC [sw/l]
1	BE-7	---	---	---	2,565E+02	6,083E+02
2	K-40	---	---	---	1,598E+02	4,322E+02
3	MN-54	---	---	---	6,539E+00	1,970E+01
4	CO-57	---	---	---	1,108E+01	2,637E+01
5	CO-60	---	---	---	9,811E+00	2,962E+01
6	ZN-65	---	---	---	1,648E+01	4,940E+01
7	SE-75	---	---	---	2,781E+01	6,645E+01
8	SR-85	---	---	---	1,945E+01	4,728E+01
9	Y-88	---	---	---	1,312E+01	3,970E+01
10	NB-94	---	---	---	6,730E+00	2,027E+01
11	RU-106	---	---	---	1,918E+02	4,765E+02
12	AG-108M	---	---	---	7,672E+00	2,319E+01
13	AG-110M	---	---	---	2,110E+01	5,286E+01
14	CD-109	---	---	---	2,428E+02	5,790E+02
15	SN-113	---	---	---	3,265E+01	7,755E+01
16	SB-125	---	---	---	8,763E+01	2,087E+02
17	I-129	---	---	---	1,355E+02	3,308E+02
18	CS-134	---	---	---	1,796E+01	4,483E+01
19	CS-137	8,546E+03	20,4	1,746E+03	6,379E+00	1,920E+01
20	CE-139	---	---	---	1,520E+01	3,623E+01
21	CE-144	---	---	---	8,705E+01	2,073E+02
22	EU-152	---	---	---	6,517E+01	1,562E+02
23	EU-154	---	---	---	3,248E+01	9,813E+01
24	HG-203	---	---	---	1,896E+01	4,511E+01
25	TL-208	---	---	---	2,312E+01	5,695E+01
26	PB-210	---	---	---	2,289E+02	5,529E+02
27	PB-212	---	---	---	2,835E+01	6,773E+01
28	PB-214	---	---	---	4,963E+01	1,184E+02
29	BI-212	---	---	---	8,998E+01	2,710E+02
30	BI-214	---	---	---	4,192E+01	1,037E+02
31	RA-226	---	---	---	4,045E+02	9,517E+02
32	AC-228	---	---	---	2,702E+01	8,147E+01
33	TH-227	---	---	---	1,116E+02	2,815E+02
34	TH-230	---	---	---	2,336E+03	5,825E+03
35	TH-234	---	---	---	1,944E+02	5,176E+02
36	PA-234M	---	---	---	8,880E+02	2,677E+03
37	U-235	---	---	---	9,071E+01	2,158E+02
38	AM-241	---	---	---	2,572E+01	6,161E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 199

Auswertung des Gammaskopimetrischen: T2105074

Bezugsdatum:	10.05.2021 16:11:00	Detektor:	GMX5
Messdatum:	11.05.2021 12:30:00	Messzeit: (life)	1800.00 s
Alter der Probe:	73140 Sekunden	Messzeit: (real)	1802.01 s
Probenmasse/Volumen:	0,1	Totzeit:	0.11 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	30.276 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	11.05.2021 13:13:47	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210510/01 21/0681	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Effizienz (%)	Gamma (%)	Gamma (keV)	BKG (cps)	NW0 (cps)
1	BE-7	---	---	---	2,182E+02	5,115E+02
2	K-40	---	---	---	1,317E+02	3,450E+02
3	MN-54	---	---	---	4,350E+00	1,310E+01
4	CO-57	---	---	---	9,335E+00	2,197E+01
5	CO-60	---	---	---	6,538E+00	1,974E+01
6	ZN-65	---	---	---	1,416E+01	4,008E+01
7	SE-75	---	---	---	2,376E+01	5,610E+01
8	SR-85	---	---	---	1,931E+01	4,580E+01
9	Y-88	---	---	---	8,690E+00	2,630E+01
10	NB-94	---	---	---	6,350E+00	1,771E+01
11	RU-106	---	---	---	1,509E+02	3,696E+02
12	AG-108M	---	---	---	6,028E+00	1,753E+01
13	AG-110M	---	---	---	1,810E+01	4,436E+01
14	CD-109	---	---	---	1,969E+02	4,651E+02
15	SN-113	---	---	---	2,768E+01	6,502E+01
16	SB-125	---	---	---	7,004E+01	1,654E+02
17	I-129	---	---	---	1,162E+02	2,798E+02
18	CS-134	---	---	---	1,504E+01	3,681E+01
19	CS-137	9,314E+03	20,4	1,902E+03	1,271E+01	3,185E+01
20	CE-139	---	---	---	1,242E+01	2,933E+01
21	CE-144	---	---	---	8,206E+01	1,924E+02
22	EU-152	---	---	---	5,703E+01	1,348E+02
23	EU-154	---	---	---	2,552E+01	7,416E+01
24	HG-203	---	---	---	1,613E+01	3,790E+01
25	TL-208	---	---	---	1,768E+01	4,309E+01
26	PB-210	---	---	---	1,828E+02	4,375E+02
27	PB-212	---	---	---	2,855E+01	6,692E+01
28	PB-214	---	---	---	4,575E+01	1,075E+02
29	BI-212	---	---	---	6,131E+01	1,837E+02
30	BI-214	---	---	---	3,243E+01	7,925E+01
31	RA-226	---	---	---	3,310E+02	7,728E+02
32	AC-228	---	---	---	2,783E+01	7,646E+01
33	TH-227	---	---	---	1,021E+02	2,538E+02
34	TH-230	---	---	---	1,813E+03	4,486E+03
35	TH-234	---	---	---	1,819E+02	4,749E+02
36	PA-234M	---	---	---	8,187E+02	2,296E+03
37	U-235	---	---	---	7,743E+01	1,821E+02
38	AM-241	---	---	---	2,074E+01	4,921E+01

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 200

Auswertung des Gammaskopimetrischen: T2106158

Bezugsdatum:	14.06.2021 15:10:00	Detektor:	GMX5
Messdatum:	15.06.2021 11:56:58	Messzeit: (life)	700.00 s
Alter der Probe:	74818 Sekunden	Messzeit: (real)	700.78 s
Probenmasse/Volumen:	0,1	Totzeit:	0.11 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	30.179 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	15.06.2021 12:11:13	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210614/01 21/0935	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Standard [Bq]	Faktor [%]	Faktor [Bq]	EKG [Bq]	WGC [Bq]
1	BE-7	---	---	---	3,408E+02	8,192E+02
2	K-40	---	---	---	1,722E+02	5,111E+02
3	MN-54	---	---	---	1,119E+01	3,369E+01
4	CO-57	---	---	---	1,527E+01	3,678E+01
5	CO-60	---	---	---	1,681E+01	5,076E+01
6	ZN-65	---	---	---	2,794E+01	8,393E+01
7	SE-75	---	---	---	3,840E+01	9,288E+01
8	SR-85	---	---	---	2,925E+01	7,179E+01
9	Y-88	---	---	---	2,235E+01	6,764E+01
10	NB-94	---	---	---	1,154E+01	3,474E+01
11	RU-106	---	---	---	1,978E+02	5,205E+02
12	AG-108M	---	---	---	1,315E+01	3,976E+01
13	AG-110M	---	---	---	1,847E+01	5,050E+01
14	CD-109	---	---	---	3,170E+02	7,684E+02
15	SN-113	---	---	---	4,227E+01	1,021E+02
16	SB-125	---	---	---	1,164E+02	2,811E+02
17	I-129	---	---	---	1,810E+02	4,500E+02
18	CS-134	---	---	---	2,255E+01	5,825E+01
19	CS-137	9,392E+03	20,5	1,921E+03	1,466E+01	4,131E+01
20	CE-139	---	---	---	2,104E+01	5,072E+01
21	CE-144	---	---	---	1,242E+02	2,989E+02
22	EU-152	---	---	---	9,336E+01	2,263E+02
23	EU-154	---	---	---	5,567E+01	1,682E+02
24	HG-203	---	---	---	2,609E+01	6,282E+01
25	TL-208	---	---	---	3,187E+01	8,010E+01
26	PB-210	---	---	---	2,946E+02	7,254E+02
27	PB-212	---	---	---	4,423E+01	1,063E+02
28	PB-214	---	---	---	6,942E+01	1,677E+02
29	BI-212	---	---	---	1,542E+02	4,646E+02
30	BI-214	---	---	---	5,828E+01	1,471E+02
31	RA-226	---	---	---	5,302E+02	1,263E+03
32	AC-228	---	---	---	4,633E+01	1,397E+02
33	TH-227	---	---	---	1,694E+02	4,303E+02
34	TH-230	---	---	---	2,854E+03	7,278E+03
35	TH-234	---	---	---	3,118E+02	8,338E+02
36	PA-234M	---	---	---	1,522E+03	4,589E+03
37	U-235	---	---	---	1,242E+02	2,994E+02
38	AM-241	---	---	---	3,352E+01	8,168E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 201

Auswertung des Gammaskopimetrischen: T2107075

Bezugsdatum:	12.07.2021 15:10:00	Detektor:	GMX6
Messdatum:	13.07.2021 12:07:19	Messzeit: (life)	1800.00 s
Alter der Probe:	75439 Sekunden	Messzeit: (real)	1801.70 s
Probenmasse/Volumen:	0,1	Totzeit:	0.09 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	22.127 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	13.07.2021 12:40:44	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750071/20210712/01 21/1185	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq/l]	Gamma [Bq]	Gamma [Bq/l]	Erz [Bq/l]	MW [Bq/l]
1	BE-7	---	---	---	2,733E+02	6,481E+02
2	K-40	---	---	---	1,358E+02	3,638E+02
3	MN-54	---	---	---	7,091E+00	2,025E+01
4	CO-57	---	---	---	1,498E+01	3,619E+01
5	CO-60	---	---	---	7,815E+00	2,359E+01
6	ZN-65	---	---	---	1,412E+01	4,201E+01
7	SE-75	---	---	---	3,322E+01	7,958E+01
8	SR-85	---	---	---	2,339E+01	5,619E+01
9	Y-88	---	---	---	9,644E+00	2,911E+01
10	NB-94	---	---	---	5,691E+00	1,718E+01
11	RU-106	---	---	---	1,710E+02	4,255E+02
12	AG-108M	---	---	---	6,264E+00	1,901E+01
13	AG-110M	---	---	---	1,999E+01	4,970E+01
14	CD-109	---	---	---	3,385E+02	8,317E+02
15	SN-113	---	---	---	3,549E+01	8,460E+01
16	SB-125	---	---	---	8,992E+01	2,141E+02
17	I-129	---	---	---	3,169E+02	9,596E+02
18	CS-134	---	---	---	1,740E+01	4,320E+01
19	CS-137	1,016E+04	20,7	2,105E+03	1,384E+01	3,558E+01
20	CE-139	---	---	---	1,895E+01	4,553E+01
21	CE-144	---	---	---	1,245E+02	2,997E+02
22	EU-152	---	---	---	8,195E+01	1,957E+02
23	EU-154	---	---	---	2,722E+01	8,237E+01
24	HG-203	---	---	---	2,231E+01	5,340E+01
25	TL-208	---	---	---	1,835E+01	4,584E+01
26	PB-210	---	---	---	4,387E+02	1,216E+03
27	PB-212	---	---	---	4,156E+01	9,916E+01
28	PB-214	---	---	---	6,267E+01	1,493E+02
29	BI-212	---	---	---	1,136E+02	3,160E+02
30	BI-214	---	---	---	4,125E+01	1,014E+02
31	RA-226	---	---	---	5,369E+02	1,275E+03
32	AC-228	---	---	---	2,631E+01	7,670E+01
33	TH-227	---	---	---	1,597E+02	4,017E+02
34	TH-230	---	---	---	4,183E+03	1,094E+04
35	TH-234	---	---	---	3,443E+02	9,743E+02
36	PA-234M	---	---	---	7,430E+02	2,245E+03
37	U-235	---	---	---	1,245E+02	2,995E+02
38	AM-241	---	---	---	3,869E+01	1,000E+02

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 202
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2108055

Bezugsdatum:	09.08.2021 15:00:00	Detektor:	GMX5
Messdatum:	10.08.2021 12:10:00	Messzeit: (life)	3600.00 s
Alter der Probe:	76200 Sekunden	Messzeit: (real)	3604.80 s
Probenmasse/Volumen:	0,1	Totzeit:	0.13 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	36.236 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	NW5_L02.ABS vom 06.06.2019 09:11:23	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	10.08.2021 13:35:14	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210809/01 21/1468	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	AMTIVIT Bq/l	Fehler [%]	Fehler [Bq/l]	FWHM [keV]	FWHM [keV]
1	BE-7	---	---	---	1,685E+02	3,897E+02
2	K-40	---	---	---	7,630E+01	1,961E+02
3	MN-54	---	---	---	3,517E+00	9,578E+00
4	CO-57	---	---	---	7,515E+00	1,741E+01
5	CO-60	---	---	---	4,196E+00	1,197E+01
6	ZN-65	---	---	---	8,449E+00	2,312E+01
7	SE-75	---	---	---	1,784E+01	4,153E+01
8	SR-85	---	---	---	1,387E+01	3,241E+01
9	Y-88	---	---	---	5,521E+00	1,582E+01
10	NB-94	---	---	---	3,427E+00	9,423E+00
11	RU-106	---	---	---	1,138E+02	2,716E+02
12	AG-108M	---	---	---	4,517E+00	1,217E+01
13	AG-110M	---	---	---	1,255E+01	3,010E+01
14	CD-109	---	---	---	1,530E+02	3,558E+02
15	SN-113	---	---	---	2,209E+01	5,110E+01
16	SB-125	---	---	---	5,673E+01	1,319E+02
17	I-129	---	---	---	8,809E+01	2,085E+02
18	CS-134	---	---	---	1,174E+01	2,793E+01
19	CS-137	1,122E+04	20,4	2,289E+03	7,850E+00	1,930E+01
20	CE-139	---	---	---	9,818E+00	2,285E+01
21	CE-144	---	---	---	5,841E+01	1,355E+02
22	EU-152	---	---	---	4,624E+01	1,074E+02
23	EU-154	---	---	---	1,912E+01	5,147E+01
24	HG-203	---	---	---	1,220E+01	2,827E+01
25	TL-208	---	---	---	1,600E+01	3,771E+01
26	PB-210	---	---	---	1,399E+02	3,291E+02
27	PB-212	---	---	---	2,152E+01	4,980E+01
28	PB-214	---	---	---	3,409E+01	7,903E+01
29	BI-212	---	---	---	4,678E+01	1,282E+02
30	BI-214	---	---	---	2,592E+01	6,155E+01
31	RA-226	---	---	---	2,568E+02	5,923E+02
32	AC-228	---	---	---	1,287E+01	3,588E+01
33	TH-227	---	---	---	7,964E+01	1,951E+02
34	TH-230	---	---	---	1,419E+03	3,450E+03
35	TH-234	---	---	---	1,372E+02	3,523E+02
36	PA-234M	---	---	---	4,418E+02	1,221E+03
37	U-235	---	---	---	6,271E+01	1,452E+02
38	AM-241	---	---	---	1,492E+01	3,490E+01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 203

Auswertung des Gammaskopimetrischen: T2109082

Bezugsdatum:	13.09.2021 15:05:00	Detektor:	GMX4
Messdatum:	15.09.2021 12:05:00	Messzeit: (life)	1200.00 s
Alter der Probe:	1.88 Tage	Messzeit: (real)	1200.72 s
Probenmasse/Volumen:	0,1	Totzeit:	0.06 %
Nuklidtabelle:	NW4_REF1.ISO	Zählrate:	26.048 cps
Ausbeutekurve:	NW4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW4_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2107T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	15.09.2021 12:37:15	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20210913/01 21/1641	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Faktor (Cp)	Faktor (Bq)	BKZ (Bq)	NWID (Cp)
1	BE-7	---	---	---	3,737E+02	8,844E+02
2	K-40	---	---	---	2,323E+02	6,104E+02
3	MN-54	---	---	---	9,552E+00	2,791E+01
4	CO-57	---	---	---	2,202E+01	5,196E+01
5	CO-60	---	---	---	1,187E+01	3,572E+01
6	ZN-65	---	---	---	2,105E+01	6,273E+01
7	SE-75	---	---	---	4,341E+01	1,032E+02
8	SR-85	---	---	---	3,004E+01	7,244E+01
9	Y-88	---	---	---	1,521E+01	4,581E+01
10	NB-94	---	---	---	8,655E+00	2,604E+01
11	RU-106	---	---	---	2,576E+02	6,379E+02
12	AG-108M	---	---	---	1,247E+01	3,539E+01
13	AG-110M	---	---	---	2,245E+01	5,711E+01
14	CD-109	---	---	---	4,784E+02	1,134E+03
15	SN-113	---	---	---	4,720E+01	1,122E+02
16	SB-125	---	---	---	1,319E+02	3,118E+02
17	I-129	---	---	---	2,600E+02	6,387E+02
18	CS-134	---	---	---	2,612E+01	6,451E+01
19	CS-137	1,128E+04	20,4	2,297E+03	1,748E+01	4,581E+01
20	CE-139	---	---	---	2,530E+01	5,998E+01
21	CE-144	---	---	---	1,587E+02	3,764E+02
22	EU-152	---	---	---	1,084E+02	2,577E+02
23	EU-154	---	---	---	5,413E+01	1,533E+02
24	HG-203	---	---	---	3,308E+01	7,822E+01
25	TL-208	---	---	---	2,833E+01	7,020E+01
26	PB-210	---	---	---	3,828E+02	9,338E+02
27	PB-212	---	---	---	5,570E+01	1,316E+02
28	PB-214	---	---	---	7,844E+01	1,866E+02
29	BI-212	---	---	---	1,176E+02	3,539E+02
30	BI-214	---	---	---	5,444E+01	1,346E+02
31	RA-226	---	---	---	6,744E+02	1,585E+03
32	AC-228	---	---	---	3,437E+01	1,035E+02
33	TH-227	---	---	---	2,046E+02	5,101E+02
34	TH-230	---	---	---	4,262E+03	1,062E+04
35	TH-234	---	---	---	4,118E+02	1,086E+03
36	PA-234M	---	---	---	1,128E+03	3,396E+03
37	U-235	---	---	---	1,682E+02	3,980E+02
38	AM-241	---	---	---	4,432E+01	1,066E+02

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 204

Auswertung des Gammaskpektrums: T2110065

Bezugsdatum:	11.10.2021 14:05:00	Detektor:	GMX5
Messdatum:	12.10.2021 14:51:44	Messzeit: (life)	900.00 s
Alter der Probe:	1.03 Tage	Messzeit: (real)	901.11 s
Probenmasse/Volumen:	0,1	Totzeit:	0.12 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	34.084 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	12.10.2021 15:09:11	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750071/20211011/01 21/1791	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Faktor [%]	Fenster [cm]	H(L) [cps]	FWHM [cps]
1	BE-7	---	---	---	3,363E+02	7,977E+02
2	K-40	---	---	---	1,543E+02	4,435E+02
3	MN-54	---	---	---	8,704E+00	2,622E+01
4	CO-57	---	---	---	1,455E+01	3,463E+01
5	CO-60	---	---	---	1,308E+01	3,948E+01
6	ZN-65	---	---	---	2,181E+01	6,548E+01
7	SE-75	---	---	---	3,821E+01	9,113E+01
8	SR-85	---	---	---	2,630E+01	6,384E+01
9	Y-88	---	---	---	1,740E+01	5,267E+01
10	NB-94	---	---	---	8,973E+00	2,702E+01
11	RU-106	---	---	---	2,133E+02	5,391E+02
12	AG-108M	---	---	---	1,043E+01	3,138E+01
13	AG-110M	---	---	---	2,097E+01	5,423E+01
14	CD-109	---	---	---	2,524E+02	6,108E+02
15	SN-113	---	---	---	3,859E+01	9,226E+01
16	SB-125	---	---	---	1,173E+02	2,791E+02
17	I-129	---	---	---	1,841E+02	4,490E+02
18	CS-134	---	---	---	2,788E+01	6,864E+01
19	CS-137	1,047E+04	20,4	2,139E+03	1,376E+01	3,745E+01
20	CE-139	---	---	---	1,906E+01	4,556E+01
21	CE-144	---	---	---	1,101E+02	2,629E+02
22	EU-152	---	---	---	8,786E+01	2,104E+02
23	EU-154	---	---	---	4,416E+01	1,328E+02
24	HG-203	---	---	---	2,400E+01	5,722E+01
25	TL-208	---	---	---	2,689E+01	6,704E+01
26	PB-210	---	---	---	2,782E+02	6,759E+02
27	PB-212	---	---	---	4,161E+01	9,890E+01
28	PB-214	---	---	---	6,024E+01	1,445E+02
29	BI-212	---	---	---	1,200E+02	3,614E+02
30	BI-214	---	---	---	5,793E+01	1,428E+02
31	RA-226	---	---	---	5,000E+02	1,180E+03
32	AC-228	---	---	---	3,603E+01	1,086E+02
33	TH-227	---	---	---	1,533E+02	3,860E+02
34	TH-230	---	---	---	2,766E+03	6,947E+03
35	TH-234	---	---	---	2,890E+02	7,640E+02
36	PA-234M	---	---	---	1,184E+03	3,570E+03
37	U-235	---	---	---	1,202E+02	2,861E+02
38	AM-241	---	---	---	3,093E+01	7,454E+01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 205
NNAA	NNNNNNNNNN	NNAANN	AANNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2111095

Bezugsdatum: 15.11.2021 15:15:00 Messdatum: 16.11.2021 11:50:04 Alter der Probe: 74104 Sekunden Probenmasse/Volumen: 0,1 Nuklidtabelle: NA5_REF3.ISO Ausbeutekurve: NA5REF_1.EFF Absorbtiionskurve: NW5_L02.ABS Nulldatei: UN2005T5.NUL Auswertedatum: 16.11.2021 12:03:55 Kommentar: P750071/20211115/01 21/1958	Detektor: GMX5 Messzeit: (life) 600.00 s Messzeit: (real) 600.68 s Totzeit: 0.11 % Zählrate: 31.415 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.45 keV - 2.52 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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Nr.	Isotop	Aktivität		Fallen [Bq]	Fallen [Bq]	GKS		NWG	
		[Bq]	[Bq]			[Bq]	[Bq]	[Bq]	[Bq]
1	BE-7	---	---	---	---	3,529E+02	---	8,551E+02	---
2	K-40	---	---	---	---	1,994E+02	---	5,929E+02	---
3	MN-54	---	---	---	---	1,974E+01	---	5,439E+01	---
4	CO-57	---	---	---	---	1,686E+01	---	4,077E+01	---
5	CO-60	---	---	---	---	1,962E+01	---	5,922E+01	---
6	ZN-65	---	---	---	---	3,254E+01	---	9,779E+01	---
7	SE-75	---	---	---	---	4,447E+01	---	1,076E+02	---
8	SR-85	---	---	---	---	3,756E+01	---	9,150E+01	---
9	Y-88	---	---	---	---	2,607E+01	---	7,891E+01	---
10	NB-94	---	---	---	---	1,346E+01	---	4,053E+01	---
11	RU-106	---	---	---	---	2,931E+02	---	7,481E+02	---
12	AG-108M	---	---	---	---	1,534E+01	---	4,638E+01	---
13	AG-110M	---	---	---	---	2,900E+01	---	7,579E+01	---
14	CD-109	---	---	---	---	3,125E+02	---	7,670E+02	---
15	SN-113	---	---	---	---	4,805E+01	---	1,162E+02	---
16	SB-125	---	---	---	---	1,308E+02	---	3,165E+02	---
17	I-129	---	---	---	---	2,114E+02	---	5,255E+02	---
18	CS-134	---	---	---	---	3,058E+01	---	7,759E+01	---
19	CS-137	9,679E+03	---	20,5	1,981E+03	1,682E+01	---	4,755E+01	---
20	CE-139	---	---	---	---	2,185E+01	---	5,307E+01	---
21	CE-144	---	---	---	---	1,295E+02	---	3,138E+02	---
22	EU-152	---	---	---	---	1,192E+02	---	2,872E+02	---
23	EU-154	---	---	---	---	6,495E+01	---	1,962E+02	---
24	HG-203	---	---	---	---	2,725E+01	---	6,610E+01	---
25	TL-208	---	---	---	---	3,440E+01	---	8,716E+01	---
26	PB-210	---	---	---	---	3,515E+02	---	8,642E+02	---
27	PB-212	---	---	---	---	5,397E+01	---	1,293E+02	---
28	PB-214	---	---	---	---	7,807E+01	---	1,891E+02	---
29	BI-212	---	---	---	---	1,800E+02	---	5,421E+02	---
30	BI-214	---	---	---	---	6,372E+01	---	1,619E+02	---
31	RA-226	---	---	---	---	5,989E+02	---	1,429E+03	---
32	AC-228	---	---	---	---	5,405E+01	---	1,629E+02	---
33	TH-227	---	---	---	---	1,755E+02	---	4,491E+02	---
34	TH-230	---	---	---	---	3,813E+03	---	9,629E+03	---
35	TH-234	---	---	---	---	3,635E+02	---	9,722E+02	---
36	PA-234M	---	---	---	---	1,776E+03	---	5,354E+03	---
37	U-235	---	---	---	---	1,275E+02	---	3,100E+02	---
38	AM-241	---	---	---	---	3,263E+01	---	8,062E+01	---

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 206

Auswertung des Gammaskopimetrischen: T2112079

Bezugsdatum:	13.12.2021 15:45:00	Detektor:	GMX6
Messdatum:	14.12.2021 14:00:00	Messzeit: (life)	1000.00 s
Alter der Probe:	80100 Sekunden	Messzeit: (real)	1001.14 s
Probenmasse/Volumen:	0,1	Totzeit:	0.11 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	28.755 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	14.12.2021 14:29:06	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750071/20211213/01 21/2133	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	AMW (Bq)	FWHM (%)	Faktor (s/w)	BKG (Bq)	MWG (Bq)
1	BE-7	---	---	---	3,795E+02	9,024E+02
2	K-40	---	---	---	2,477E+02	6,555E+02
3	MN-54	---	---	---	9,303E+00	2,800E+01
4	CO-57	---	---	---	2,125E+01	5,057E+01
5	CO-60	---	---	---	1,324E+01	3,990E+01
6	ZN-65	---	---	---	2,323E+01	6,937E+01
7	SE-75	---	---	---	4,821E+01	1,151E+02
8	SR-85	---	---	---	3,079E+01	7,466E+01
9	Y-88	---	---	---	1,648E+01	4,969E+01
10	NB-94	---	---	---	9,555E+00	2,875E+01
11	RU-106	---	---	---	2,374E+02	5,984E+02
12	AG-108M	---	---	---	1,047E+01	3,165E+01
13	AG-110M	---	---	---	1,749E+01	4,668E+01
14	CD-109	---	---	---	4,490E+02	1,075E+03
15	SN-113	---	---	---	5,134E+01	1,224E+02
16	SB-125	---	---	---	1,191E+02	2,848E+02
17	I-129	---	---	---	2,450E+02	6,173E+02
18	CS-134	---	---	---	2,695E+01	6,702E+01
19	CS-137	1,217E+04	20,4	2,481E+03	1,639E+01	4,403E+01
20	CE-139	---	---	---	2,748E+01	6,541E+01
21	CE-144	---	---	---	1,758E+02	4,177E+02
22	EU-152	---	---	---	1,252E+02	2,979E+02
23	EU-154	---	---	---	4,551E+01	1,371E+02
24	HG-203	---	---	---	3,154E+01	7,542E+01
25	TL-208	---	---	---	3,252E+01	8,038E+01
26	PB-210	---	---	---	4,103E+02	1,014E+03
27	PB-212	---	---	---	5,746E+01	1,368E+02
28	PB-214	---	---	---	8,073E+01	1,934E+02
29	BI-212	---	---	---	1,297E+02	3,904E+02
30	BI-214	---	---	---	5,413E+01	1,353E+02
31	RA-226	---	---	---	7,200E+02	1,701E+03
32	AC-228	---	---	---	3,799E+01	1,144E+02
33	TH-227	---	---	---	2,067E+02	5,199E+02
34	TH-230	---	---	---	4,187E+03	1,055E+04
35	TH-234	---	---	---	4,366E+02	1,160E+03
36	PA-234M	---	---	---	1,251E+03	3,769E+03
37	U-235	---	---	---	1,762E+02	4,193E+02
38	AM-241	---	---	---	4,139E+01	1,011E+02

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 207

15 Messergebnisse Laugenmessstelle P750084

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 208

Auswertung des Gammaskopimetrischen: T2101058

Bezugsdatum:	11.01.2021 15:05:00	Detektor:	GMX5
Messdatum:	13.01.2021 13:40:41	Messzeit: (life)	1000.00 s
Alter der Probe:	1.94 Tage	Messzeit: (real)	1006.82 s
Probenmasse/Volumen:	0,05	Totzeit:	0.68 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	196.611 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	13.01.2021 13:59:59	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210111/01 21/0047	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

ID	Isotop	Amplitude Bq/l	Einheit Bq/l	Einheit Bq/l	Einheit Bq/l	Einheit Bq/l
1	BE-7	---	---	---	1,494E+03	3,439E+03
2	K-40	---	---	---	2,764E+02	7,956E+02
3	MN-54	---	---	---	1,570E+01	4,728E+01
4	CO-57	---	---	---	6,605E+01	1,523E+02
5	CO-60	---	---	---	2,355E+01	7,109E+01
6	ZN-65	---	---	---	3,943E+01	1,183E+02
7	SE-75	---	---	---	1,630E+02	3,773E+02
8	SR-85	---	---	---	1,232E+02	2,860E+02
9	Y-88	---	---	---	3,151E+01	9,537E+01
10	NB-94	---	---	---	1,883E+01	5,467E+01
11	RU-106	---	---	---	9,818E+02	2,323E+03
12	AG-108M	---	---	---	1,841E+01	5,566E+01
13	AG-110M	---	---	---	1,145E+02	2,716E+02
14	CD-109	---	---	---	1,366E+03	3,159E+03
15	SN-113	---	---	---	1,738E+02	4,013E+02
16	SB-125	---	---	---	4,875E+02	1,129E+03
17	I-129	---	---	---	8,150E+02	1,914E+03
18	CS-134	---	---	---	1,013E+02	2,389E+02
19	CS-137	1,235E+05	20,4	2,518E+04	7,804E+01	1,875E+02
20	CE-139	---	---	---	8,638E+01	2,002E+02
21	CE-144	---	---	---	5,288E+02	1,220E+03
22	EU-152	---	---	---	3,964E+02	9,164E+02
23	EU-154	---	---	---	7,795E+01	2,355E+02
24	HG-203	---	---	---	1,102E+02	2,540E+02
25	TL-208	---	---	---	1,190E+02	2,800E+02
26	PB-210	---	---	---	1,278E+03	2,984E+03
27	PB-212	---	---	---	1,823E+02	4,202E+02
28	PB-214	---	---	---	2,821E+02	6,517E+02
29	BI-212	---	---	---	2,423E+02	7,098E+02
30	BI-214	---	---	---	2,240E+02	5,273E+02
31	RA-226	---	---	---	2,363E+03	5,424E+03
32	AC-228	---	---	---	6,486E+01	1,955E+02
33	TH-227	---	---	---	6,788E+02	1,656E+03
34	TH-230	---	---	---	1,349E+04	3,257E+04
35	TH-234	---	---	---	1,303E+03	3,319E+03
36	PA-234M	---	---	---	2,131E+03	6,425E+03
37	U-235	---	---	---	5,475E+02	1,262E+03
38	AM-241	---	---	---	1,401E+02	3,254E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 209

Auswertung des Gammaskopimetrischen: T2102081

Bezugsdatum:	16.02.2021 14:45:00	Detektor:	GMX5
Messdatum:	18.02.2021 11:25:00	Messzeit: (life)	900.00 s
Alter der Probe:	1.86 Tage	Messzeit: (real)	905.26 s
Probenmasse/Volumen:	0,05	Totzeit:	0.58 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	165.311 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	18.02.2021 12:00:06	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210216/01 21/0199	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Gruppe	Aktivität (Bq/l)	Fehler (%)	Faktor (Bq/l)	ERG (Bq/l)	MWG (Bq/l)
1	BE-7	---	---	---	1,512E+03	3,487E+03
2	K-40	---	---	---	4,226E+02	1,145E+03
3	MN-54	---	---	---	1,744E+01	5,253E+01
4	CO-57	---	---	---	6,332E+01	1,465E+02
5	CO-60	---	---	---	2,616E+01	7,899E+01
6	ZN-65	---	---	---	4,373E+01	1,313E+02
7	SE-75	---	---	---	1,574E+02	3,655E+02
8	SR-85	---	---	---	1,151E+02	2,687E+02
9	Y-88	---	---	---	3,499E+01	1,059E+02
10	NB-94	---	---	---	1,795E+01	5,404E+01
11	RU-106	---	---	---	9,773E+02	2,324E+03
12	AG-108M	---	---	---	2,046E+01	6,184E+01
13	AG-110M	---	---	---	1,079E+02	2,578E+02
14	CD-109	---	---	---	1,356E+03	3,143E+03
15	SN-113	---	---	---	1,806E+02	4,176E+02
16	SB-125	---	---	---	4,729E+02	1,099E+03
17	I-129	---	---	---	8,112E+02	1,911E+03
18	CS-134	---	---	---	1,009E+02	2,391E+02
19	CS-137	1,050E+05	20,4	2,141E+04	6,953E+01	1,696E+02
20	CE-139	---	---	---	8,161E+01	1,898E+02
21	CE-144	---	---	---	5,042E+02	1,167E+03
22	EU-152	---	---	---	3,824E+02	8,873E+02
23	EU-154	---	---	---	8,661E+01	2,617E+02
24	HG-203	---	---	---	1,045E+02	2,419E+02
25	TL-208	---	---	---	1,191E+02	2,816E+02
26	PB-210	---	---	---	1,309E+03	3,065E+03
27	PB-212	---	---	---	1,749E+02	4,045E+02
28	PB-214	---	---	---	2,766E+02	6,410E+02
29	BI-212	---	---	---	2,399E+02	7,227E+02
30	BI-214	---	---	---	2,153E+02	5,101E+02
31	RA-226	---	---	---	2,206E+03	5,082E+03
32	AC-228	---	---	---	7,356E+01	2,206E+02
33	TH-227	---	---	---	6,682E+02	1,635E+03
34	TH-230	---	---	---	1,325E+04	3,208E+04
35	TH-234	---	---	---	1,257E+03	3,216E+03
36	PA-234M	---	---	---	2,368E+03	7,139E+03
37	U-235	---	---	---	5,312E+02	1,228E+03
38	AM-241	---	---	---	1,338E+02	3,121E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 210
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2103084

Bezugsdatum:	15.03.2021 15:00:00	Detektor:	GMX4
Messdatum:	16.03.2021 12:13:35	Messzeit: (life)	900.00 s
Alter der Probe:	76415 Sekunden	Messzeit: (real)	902.35 s
Probenmasse/Volumen:	0,05	Totzeit:	0.26 %
Nuklidtabelle:	NW4_REF1.ISO	Zählrate:	121.316 cps
Ausbeutekurve:	NW4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW4_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2008T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	16.03.2021 12:32:10	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210315/01 21/0341	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität Bq/l	Fehler (%)	Fehler (Bq)	ERG Bq/l	NWG Bq/l
1	BE-7	---	---	---	1,889E+03	4,365E+03
2	K-40	---	---	---	5,319E+02	1,431E+03
3	MN-54	---	---	---	2,249E+01	6,768E+01
4	CO-57	---	---	---	1,044E+02	2,417E+02
5	CO-60	---	---	---	3,163E+01	9,523E+01
6	ZN-65	---	---	---	6,116E+01	1,785E+02
7	SE-75	---	---	---	2,157E+02	5,009E+02
8	SR-85	---	---	---	1,518E+02	3,545E+02
9	Y-88	---	---	---	4,029E+01	1,214E+02
10	NB-94	---	---	---	2,308E+01	6,943E+01
11	RU-106	---	---	---	1,171E+03	2,795E+03
12	AG-108M	---	---	---	2,532E+01	7,645E+01
13	AG-110M	---	---	---	1,222E+02	2,929E+02
14	CD-109	---	---	---	2,233E+03	5,190E+03
15	SN-113	---	---	---	2,384E+02	5,523E+02
16	SB-125	---	---	---	6,338E+02	1,468E+03
17	I-129	---	---	---	1,285E+03	3,077E+03
18	CS-134	---	---	---	1,184E+02	2,819E+02
19	CS-137	1,109E+05	20,3	2,255E+04	8,946E+01	2,186E+02
20	CE-139	---	---	---	1,276E+02	2,958E+02
21	CE-144	---	---	---	8,267E+02	1,915E+03
22	EU-152	---	---	---	5,160E+02	1,198E+03
23	EU-154	---	---	---	1,099E+02	3,311E+02
24	HG-203	---	---	---	1,500E+02	3,476E+02
25	TL-208	---	---	---	1,491E+02	3,530E+02
26	PB-210	---	---	---	2,103E+03	4,977E+03
27	PB-212	---	---	---	2,643E+02	6,118E+02
28	PB-214	---	---	---	3,849E+02	8,935E+02
29	BI-212	---	---	---	3,192E+02	9,564E+02
30	BI-214	---	---	---	2,576E+02	6,124E+02
31	RA-226	---	---	---	3,448E+03	7,948E+03
32	AC-228	---	---	---	9,164E+01	2,760E+02
33	TH-227	---	---	---	9,857E+02	2,407E+03
34	TH-230	---	---	---	2,172E+04	5,283E+04
35	TH-234	---	---	---	2,084E+03	5,360E+03
36	PA-234M	---	---	---	3,507E+03	1,018E+04
37	U-235	---	---	---	8,341E+02	1,932E+03
38	AM-241	---	---	---	2,290E+02	5,365E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 211

Auswertung des Gammaskopimetrischen: T2104046

Bezugsdatum:	12.04.2021 14:40:00	Detektor:	GMX5
Messdatum:	14.04.2021 10:43:21	Messzeit: (life)	1200.00 s
Alter der Probe:	1.84 Tage	Messzeit: (real)	1207.44 s
Probenmasse/Volumen:	0,05	Totzeit:	0.62 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	175.311 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.57 keV - 2.21 keV
Auswertedatum:	14.04.2021 11:34:35	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210412/01 21/0505	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Gruppe	Amplitude (cps)	Fehler (%)	Ident. (cps)	BKG (cps)	NW (cps)
1	BE-7	---	---	---	1,292E+03	2,971E+03
2	K-40	---	---	---	2,330E+02	6,690E+02
3	MN-54	---	---	---	1,308E+01	3,939E+01
4	CO-57	---	---	---	5,803E+01	1,337E+02
5	CO-60	---	---	---	1,962E+01	5,924E+01
6	ZN-65	---	---	---	3,303E+01	9,897E+01
7	SE-75	---	---	---	1,355E+02	3,136E+02
8	SR-85	---	---	---	1,046E+02	2,427E+02
9	Y-88	---	---	---	2,624E+01	7,942E+01
10	NB-94	---	---	---	1,346E+01	4,053E+01
11	RU-106	---	---	---	7,896E+02	1,871E+03
12	AG-108M	---	---	---	1,534E+01	4,638E+01
13	AG-110M	---	---	---	9,279E+01	2,203E+02
14	CD-109	---	---	---	1,196E+03	2,763E+03
15	SN-113	---	---	---	1,609E+02	3,705E+02
16	SB-125	---	---	---	4,179E+02	9,673E+02
17	I-129	---	---	---	7,117E+02	1,670E+03
18	CS-134	---	---	---	8,872E+01	2,089E+02
19	CS-137	1,121E+05	20,4	2,287E+04	5,965E+01	1,441E+02
20	CE-139	---	---	---	7,232E+01	1,676E+02
21	CE-144	---	---	---	4,586E+02	1,057E+03
22	EU-152	---	---	---	3,458E+02	7,987E+02
23	EU-154	---	---	---	6,496E+01	1,963E+02
24	HG-203	---	---	---	9,118E+01	2,102E+02
25	TL-208	---	---	---	1,069E+02	2,508E+02
26	PB-210	---	---	---	1,107E+03	2,583E+03
27	PB-212	---	---	---	1,589E+02	3,660E+02
28	PB-214	---	---	---	2,396E+02	5,532E+02
29	BI-212	---	---	---	1,800E+02	5,421E+02
30	BI-214	---	---	---	1,950E+02	4,584E+02
31	RA-226	---	---	---	1,956E+03	4,491E+03
32	AC-228	---	---	---	5,405E+01	1,629E+02
33	TH-227	---	---	---	6,005E+02	1,464E+03
34	TH-230	---	---	---	1,125E+04	2,715E+04
35	TH-234	---	---	---	1,098E+03	2,797E+03
36	PA-234M	---	---	---	1,776E+03	5,354E+03
37	U-235	---	---	---	4,617E+02	1,064E+03
38	AM-241	---	---	---	1,215E+02	2,818E+02

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 212

Auswertung des Gammaskpektrums: T2105075

Bezugsdatum:	10.05.2021 15:35:00	Detektor:	GMX5
Messdatum:	11.05.2021 13:25:00	Messzeit: (life)	1800.00 s
Alter der Probe:	78600 Sekunden	Messzeit: (real)	1811.06 s
Probenmasse/Volumen:	0,05	Totzeit:	0.61 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	174.259 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorbtkurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	11.05.2021 14:02:22	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210510/01 21/0682	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Fehler [%]	Varianz [Bq]	EMG [Bq]	MWB [Bq]
1	BE-7	---	---	---	1,096E+03	2,509E+03
2	K-40	---	---	---	2,420E+02	6,416E+02
3	MN-54	---	---	---	8,702E+00	2,621E+01
4	CO-57	---	---	---	4,585E+01	1,053E+02
5	CO-60	---	---	---	1,308E+01	3,948E+01
6	ZN-65	---	---	---	2,221E+01	6,636E+01
7	SE-75	---	---	---	1,148E+02	2,643E+02
8	SR-85	---	---	---	8,690E+01	2,005E+02
9	Y-88	---	---	---	1,739E+01	5,263E+01
10	NB-94	---	---	---	8,973E+00	2,702E+01
11	RU-106	---	---	---	6,881E+02	1,613E+03
12	AG-108M	---	---	---	1,348E+01	3,827E+01
13	AG-110M	---	---	---	8,769E+01	2,053E+02
14	CD-109	---	---	---	9,318E+02	2,145E+03
15	SN-113	---	---	---	1,292E+02	2,963E+02
16	SB-125	---	---	---	3,530E+02	8,134E+02
17	I-129	---	---	---	5,436E+02	1,271E+03
18	CS-134	---	---	---	7,539E+01	1,759E+02
19	CS-137	1,112E+05	20,4	2,268E+04	5,954E+01	1,406E+02
20	CE-139	---	---	---	6,032E+01	1,391E+02
21	CE-144	---	---	---	3,647E+02	8,377E+02
22	EU-152	---	---	---	2,837E+02	6,524E+02
23	EU-154	---	---	---	5,706E+01	1,619E+02
24	HG-203	---	---	---	7,922E+01	1,816E+02
25	TL-208	---	---	---	8,975E+01	2,090E+02
26	PB-210	---	---	---	8,667E+02	2,015E+03
27	PB-212	---	---	---	1,287E+02	2,952E+02
28	PB-214	---	---	---	2,078E+02	4,772E+02
29	BI-212	---	---	---	1,416E+02	4,101E+02
30	BI-214	---	---	---	1,499E+02	3,505E+02
31	RA-226	---	---	---	1,573E+03	3,601E+03
32	AC-228	---	---	---	4,208E+01	1,223E+02
33	TH-227	---	---	---	4,856E+02	1,179E+03
34	TH-230	---	---	---	8,472E+03	2,039E+04
35	TH-234	---	---	---	8,749E+02	2,220E+03
36	PA-234M	---	---	---	1,184E+03	3,570E+03
37	U-235	---	---	---	3,686E+02	8,463E+02
38	AM-241	---	---	---	9,450E+01	2,185E+02

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 213

Auswertung des Gammaskpektrums: T2106159

Bezugsdatum:	14.06.2021 14:45:00	Detektor:	GMX5
Messdatum:	15.06.2021 12:15:23	Messzeit: (life)	600.00 s
Alter der Probe:	77423 Sekunden	Messzeit: (real)	603.80 s
Probenmasse/Volumen:	0,05	Totzeit:	0.63 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	179.397 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	15.06.2021 12:26:54	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210614/01 21/0936	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	aktivität [Bq]	effiz. [%]	Funktion [Bq]	ERK [Bq]	NWC [Bq]
1	BE-7	---	---	---	1,840E+03	4,266E+03
2	K-40	---	---	---	5,067E+02	1,430E+03
3	MN-54	---	---	---	2,610E+01	7,862E+01
4	CO-57	---	---	---	7,957E+01	1,850E+02
5	CO-60	---	---	---	3,923E+01	1,184E+02
6	ZN-65	---	---	---	6,509E+01	1,956E+02
7	SE-75	---	---	---	1,905E+02	4,450E+02
8	SR-85	---	---	---	1,554E+02	3,641E+02
9	Y-88	---	---	---	5,215E+01	1,579E+02
10	NB-94	---	---	---	2,692E+01	8,107E+01
11	RU-106	---	---	---	1,267E+03	3,036E+03
12	AG-108M	---	---	---	3,069E+01	9,276E+01
13	AG-110M	---	---	---	1,546E+02	3,703E+02
14	CD-109	---	---	---	1,646E+03	3,840E+03
15	SN-113	---	---	---	2,184E+02	5,080E+02
16	SB-125	---	---	---	6,204E+02	1,446E+03
17	I-129	---	---	---	9,574E+02	2,274E+03
18	CS-134	---	---	---	1,295E+02	3,095E+02
19	CS-137	1,150E+05	20,4	2,347E+04	8,742E+01	2,163E+02
20	CE-139	---	---	---	1,022E+02	2,388E+02
21	CE-144	---	---	---	6,351E+02	1,477E+03
22	EU-152	---	---	---	5,186E+02	1,207E+03
23	EU-154	---	---	---	1,299E+02	3,925E+02
24	HG-203	---	---	---	1,348E+02	3,132E+02
25	TL-208	---	---	---	1,481E+02	3,533E+02
26	PB-210	---	---	---	1,403E+03	3,321E+03
27	PB-212	---	---	---	2,330E+02	5,405E+02
28	PB-214	---	---	---	3,719E+02	8,647E+02
29	BI-212	---	---	---	3,599E+02	1,084E+03
30	BI-214	---	---	---	2,525E+02	6,063E+02
31	RA-226	---	---	---	2,743E+03	6,344E+03
32	AC-228	---	---	---	1,081E+02	3,259E+02
33	TH-227	---	---	---	8,553E+02	2,102E+03
34	TH-230	---	---	---	1,522E+04	3,715E+04
35	TH-234	---	---	---	1,543E+03	3,972E+03
36	PA-234M	---	---	---	3,552E+03	1,071E+04
37	U-235	---	---	---	6,415E+02	1,492E+03
38	AM-241	---	---	---	1,588E+02	3,731E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 214

Auswertung des Gammaskopimetrischen: T2107076

Bezugsdatum:	12.07.2021 14:45:00	Detektor:	GMX4
Messdatum:	13.07.2021 12:11:09	Messzeit: (life)	1800.00 s
Alter der Probe:	77169 Sekunden	Messzeit: (real)	1804.84 s
Probenmasse/Volumen:	0,05	Totzeit:	0.27 %
Nuklidtabelle:	NW4_REF1.ISO	Zählrate:	124.199 cps
Ausbeutekurve:	NW4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2008T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	13.07.2021 12:45:35	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210712/01 21/1186	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Gruppe	Quantität (cpm)	relativ (%)	Fehler (cpm)	BK (cpm)	MWE (cpm)
1	BE-7	---	---	---	1,443E+03	3,328E+03
2	K-40	---	---	---	3,072E+02	8,161E+02
3	MN-54	---	---	---	1,207E+01	3,641E+01
4	CO-57	---	---	---	8,595E+01	2,007E+02
5	CO-60	---	---	---	1,954E+01	5,683E+01
6	ZN-65	---	---	---	2,940E+01	8,812E+01
7	SE-75	---	---	---	1,714E+02	3,977E+02
8	SR-85	---	---	---	1,166E+02	2,706E+02
9	Y-88	---	---	---	2,122E+01	6,396E+01
10	NB-94	---	---	---	1,574E+01	4,493E+01
11	RU-106	---	---	---	8,883E+02	2,095E+03
12	AG-108M	---	---	---	2,117E+01	5,840E+01
13	AG-110M	---	---	---	1,028E+02	2,422E+02
14	CD-109	---	---	---	1,941E+03	4,590E+03
15	SN-113	---	---	---	1,891E+02	4,368E+02
16	SB-125	---	---	---	5,006E+02	1,156E+03
17	I-129	---	---	---	1,656E+03	4,566E+03
18	CS-134	---	---	---	9,565E+01	2,247E+02
19	CS-137	1,207E+05	20,6	2,491E+04	8,015E+01	1,904E+02
20	CE-139	---	---	---	1,007E+02	2,344E+02
21	CE-144	---	---	---	6,474E+02	1,511E+03
22	EU-152	---	---	---	4,291E+02	9,926E+02
23	EU-154	---	---	---	9,189E+01	2,529E+02
24	HG-203	---	---	---	1,181E+02	2,734E+02
25	TL-208	---	---	---	1,121E+02	2,630E+02
26	PB-210	---	---	---	2,250E+03	5,813E+03
27	PB-212	---	---	---	2,133E+02	4,937E+02
28	PB-214	---	---	---	3,118E+02	7,213E+02
29	BI-212	---	---	---	2,218E+02	6,294E+02
30	BI-214	---	---	---	2,097E+02	4,918E+02
31	RA-226	---	---	---	2,712E+03	6,277E+03
32	AC-228	---	---	---	4,907E+01	1,481E+02
33	TH-227	---	---	---	7,725E+02	1,889E+03
34	TH-230	---	---	---	1,950E+04	4,911E+04
35	TH-234	---	---	---	1,961E+03	5,263E+03
36	PA-234M	---	---	---	1,607E+03	4,850E+03
37	U-235	---	---	---	6,823E+02	1,589E+03
38	AM-241	---	---	---	2,129E+02	5,221E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 215
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2108063

Bezugsdatum:	10.08.2021 14:50:00	Detektor:	GMX6
Messdatum:	11.08.2021 12:50:00	Messzeit: (life)	3600.00 s
Alter der Probe:	79200 Sekunden	Messzeit: (real)	3617.41 s
Probenmasse/Volumen:	50	Totzeit:	0.48 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	127.274 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	11.08.2021 13:52:27	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750084/20210810/01 21/1471	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Amplitude (cpm)	Fehler (%)	Fehler (cpm)	FKO (cpm)	NW6 (cpm)
1	BE-7	---	---	---	8,449E+02	1,929E+03
2	K-40	---	---	---	1,768E+02	4,524E+02
3	MN-54	---	---	---	7,819E+00	2,153E+01
4	CO-57	---	---	---	4,713E+01	1,078E+02
5	CO-60	---	---	---	7,539E+00	2,257E+01
6	ZN-65	---	---	---	2,113E+01	5,706E+01
7	SE-75	---	---	---	1,065E+02	2,438E+02
8	SR-85	---	---	---	6,995E+01	1,605E+02
9	Y-88	---	---	---	9,154E+00	2,761E+01
10	NB-94	---	---	---	8,098E+00	2,226E+01
11	RU-106	---	---	---	5,217E+02	1,213E+03
12	AG-108M	---	---	---	6,950E+00	2,014E+01
13	AG-110M	---	---	---	5,937E+01	1,382E+02
14	CD-109	---	---	---	9,884E+02	2,268E+03
15	SN-113	---	---	---	1,161E+02	2,652E+02
16	SB-125	---	---	---	2,896E+02	6,624E+02
17	I-129	---	---	---	6,077E+02	1,436E+03
18	CS-134	---	---	---	5,352E+01	1,242E+02
19	CS-137	1,137E+05	20,3	2,313E+04	4,191E+01	9,833E+01
20	CE-139	---	---	---	5,912E+01	1,354E+02
21	CE-144	---	---	---	3,693E+02	8,456E+02
22	EU-152	---	---	---	2,554E+02	5,843E+02
23	EU-154	---	---	---	3,020E+01	8,729E+01
24	HG-203	---	---	---	7,221E+01	1,651E+02
25	TL-208	---	---	---	6,766E+01	1,565E+02
26	PB-210	---	---	---	9,442E+02	2,207E+03
27	PB-212	---	---	---	1,261E+02	2,884E+02
28	PB-214	---	---	---	1,886E+02	4,312E+02
29	BI-212	---	---	---	1,055E+02	2,923E+02
30	BI-214	---	---	---	1,181E+02	2,735E+02
31	RA-226	---	---	---	1,621E+03	3,699E+03
32	AC-228	---	---	---	2,127E+01	6,395E+01
33	TH-227	---	---	---	4,709E+02	1,136E+03
34	TH-230	---	---	---	9,396E+03	2,257E+04
35	TH-234	---	---	---	9,166E+02	2,326E+03
36	PA-234M	---	---	---	9,219E+02	2,605E+03
37	U-235	---	---	---	3,915E+02	8,953E+02
38	AM-241	---	---	---	9,740E+01	2,254E+02

Bemerkung

Ergebnisse der internen gammaskpektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 216
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskpektrums: T2109083

Bezugsdatum:	13.09.2021 14:40:00	Detektor:	GMX4
Messdatum:	15.09.2021 13:00:00	Messzeit: (life)	1200.00 s
Alter der Probe:	1.93 Tage	Messzeit: (real)	1203.73 s
Probenmasse/Volumen:	0,05	Totzeit:	0.31 %
Nuklidtabelle:	NW4_REF1.ISO	Zählrate:	144.070 cps
Ausbeutekurve:	NW4REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	NW4_L99.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2107T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	15.09.2021 13:22:38	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20210913/01 21/1642	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Radionuclid	AMWkt (%)	Fehler (%)	Fehler 3σ	FKG cps	AMW (%)
1	BE-7	---	---	---	1,897E+03	4,363E+03
2	K-40	---	---	---	2,627E+02	7,711E+02
3	MN-54	---	---	---	1,753E+01	5,275E+01
4	CO-57	---	---	---	1,056E+02	2,431E+02
5	CO-60	---	---	---	2,446E+01	7,365E+01
6	ZN-65	---	---	---	4,856E+01	1,411E+02
7	SE-75	---	---	---	2,208E+02	5,096E+02
8	SR-85	---	---	---	1,534E+02	3,556E+02
9	Y-88	---	---	---	3,122E+01	9,403E+01
10	NB-94	---	---	---	1,794E+01	5,397E+01
11	RU-106	---	---	---	1,118E+03	2,642E+03
12	AG-108M	---	---	---	1,972E+01	5,955E+01
13	AG-110M	---	---	---	1,301E+02	3,070E+02
14	CD-109	---	---	---	2,310E+03	5,332E+03
15	SN-113	---	---	---	2,296E+02	5,294E+02
16	SB-125	---	---	---	6,262E+02	1,443E+03
17	I-129	---	---	---	1,768E+03	4,167E+03
18	CS-134	---	---	---	1,256E+02	2,950E+02
19	CS-137	1,380E+05	20,3	2,808E+04	1,008E+02	2,404E+02
20	CE-139	---	---	---	1,268E+02	2,925E+02
21	CE-144	---	---	---	8,340E+02	1,921E+03
22	EU-152	---	---	---	5,323E+02	1,228E+03
23	EU-154	---	---	---	8,560E+01	2,580E+02
24	HG-203	---	---	---	1,541E+02	3,550E+02
25	TL-208	---	---	---	1,461E+02	3,428E+02
26	PB-210	---	---	---	2,457E+03	5,749E+03
27	PB-212	---	---	---	2,628E+02	6,051E+02
28	PB-214	---	---	---	3,866E+02	8,920E+02
29	BI-212	---	---	---	3,516E+02	9,771E+02
30	BI-214	---	---	---	2,296E+02	5,424E+02
31	RA-226	---	---	---	3,386E+03	7,772E+03
32	AC-228	---	---	---	7,118E+01	2,144E+02
33	TH-227	---	---	---	9,837E+02	2,390E+03
34	TH-230	---	---	---	2,225E+04	5,372E+04
35	TH-234	---	---	---	2,247E+03	5,724E+03
36	PA-234M	---	---	---	2,334E+03	7,028E+03
37	U-235	---	---	---	8,412E+02	1,937E+03
38	AM-241	---	---	---	2,431E+02	5,649E+02

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 217

Auswertung des Gammaspektrums: T2110066

Bezugsdatum:	11.10.2021 15:45:00	Detektor:	GMX5
Messdatum:	12.10.2021 15:12:42	Messzeit: (life)	900.00 s
Alter der Probe:	84462 Sekunden	Messzeit: (real)	905.91 s
Probenmasse/Volumen:	0,05	Totzeit:	0.65 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	187.193 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorbtionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	12.10.2021 15:32:15	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20211011/01 21/1792	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	ARVIM (%)	PAHA (%)	Faktor (Bv)	EKG (Bv)	NW (Bv)
1	BE-7	---	---	---	1,593E+03	3,668E+03
2	K-40	---	---	---	3,085E+02	8,871E+02
3	MN-54	---	---	---	1,741E+01	5,242E+01
4	CO-57	---	---	---	6,772E+01	1,564E+02
5	CO-60	---	---	---	2,615E+01	7,896E+01
6	ZN-65	---	---	---	4,362E+01	1,309E+02
7	SE-75	---	---	---	1,725E+02	3,995E+02
8	SR-85	---	---	---	1,319E+02	3,064E+02
9	Y-88	---	---	---	3,479E+01	1,053E+02
10	NB-94	---	---	---	1,795E+01	5,404E+01
11	RU-106	---	---	---	9,873E+02	2,346E+03
12	AG-108M	---	---	---	2,046E+01	6,184E+01
13	AG-110M	---	---	---	1,162E+02	2,766E+02
14	CD-109	---	---	---	1,344E+03	3,117E+03
15	SN-113	---	---	---	1,927E+02	4,448E+02
16	SB-125	---	---	---	5,299E+02	1,228E+03
17	I-129	---	---	---	8,001E+02	1,886E+03
18	CS-134	---	---	---	1,181E+02	2,781E+02
19	CS-137	1,195E+05	20,4	2,438E+04	7,204E+01	1,752E+02
20	CE-139	---	---	---	8,780E+01	2,038E+02
21	CE-144	---	---	---	5,506E+02	1,272E+03
22	EU-152	---	---	---	4,225E+02	9,779E+02
23	EU-154	---	---	---	8,660E+01	2,616E+02
24	HG-203	---	---	---	1,117E+02	2,579E+02
25	TL-208	---	---	---	1,360E+02	3,197E+02
26	PB-210	---	---	---	1,280E+03	2,997E+03
27	PB-212	---	---	---	1,902E+02	4,391E+02
28	PB-214	---	---	---	3,066E+02	7,086E+02
29	BI-212	---	---	---	2,399E+02	7,227E+02
30	BI-214	---	---	---	2,179E+02	5,160E+02
31	RA-226	---	---	---	2,391E+03	5,499E+03
32	AC-228	---	---	---	7,206E+01	2,172E+02
33	TH-227	---	---	---	7,417E+02	1,811E+03
34	TH-230	---	---	---	1,271E+04	3,080E+04
35	TH-234	---	---	---	1,270E+03	3,246E+03
36	PA-234M	---	---	---	2,368E+03	7,139E+03
37	U-235	---	---	---	5,796E+02	1,337E+03
38	AM-241	---	---	---	1,383E+02	3,221E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 218
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2111096

Bezugsdatum:	15.11.2021 14:55:00	Detektor:	GMX5
Messdatum:	16.11.2021 12:09:08	Messzeit: (life)	400.00 s
Alter der Probe:	76448 Sekunden	Messzeit: (real)	402.41 s
Probenmasse/Volumen:	0,05	Totzeit:	0.60 %
Nuklidtabelle:	NA5_REF3.ISO	Zählrate:	172.167 cps
Ausbeutekurve:	NA5REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW5_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2005T5.NUL	Halbwertsbreite:	0.45 keV - 2.52 keV
Auswertedatum:	16.11.2021 12:18:06	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	P750084/20211115/01 21/1959	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität (Bq)	Fehler (Bq)	Fehler (%)	UWG (Bq)	NWG (Bq)
1	BE-7	---	---	---	2,135E+03	4,991E+03
2	K-40	---	---	---	5,899E+02	1,760E+03
3	MN-54	---	---	---	3,916E+01	1,179E+02
4	CO-57	---	---	---	1,006E+02	2,351E+02
5	CO-60	---	---	---	5,885E+01	1,777E+02
6	ZN-65	---	---	---	9,730E+01	2,927E+02
7	SE-75	---	---	---	2,430E+02	5,707E+02
8	SR-85	---	---	---	1,866E+02	4,413E+02
9	Y-88	---	---	---	7,822E+01	2,368E+02
10	NB-94	---	---	---	4,038E+01	1,216E+02
11	RU-106	---	---	---	1,571E+03	3,809E+03
12	AG-108M	---	---	---	4,603E+01	1,391E+02
13	AG-110M	---	---	---	1,892E+02	4,589E+02
14	CD-109	---	---	---	2,069E+03	4,855E+03
15	SN-113	---	---	---	2,730E+02	6,390E+02
16	SB-125	---	---	---	7,810E+02	1,830E+03
17	I-129	---	---	---	1,127E+03	2,703E+03
18	CS-134	---	---	---	1,589E+02	3,844E+02
19	CS-137	1,081E+05	20,4	2,206E+04	1,091E+02	2,749E+02
20	CE-139	---	---	---	1,260E+02	2,963E+02
21	CE-144	---	---	---	7,524E+02	1,763E+03
22	EU-152	---	---	---	5,752E+02	1,353E+03
23	EU-154	---	---	---	1,948E+02	5,887E+02
24	HG-203	---	---	---	1,534E+02	3,597E+02
25	TL-208	---	---	---	1,860E+02	4,485E+02
26	PB-210	---	---	---	1,720E+03	4,106E+03
27	PB-212	---	---	---	2,617E+02	6,129E+02
28	PB-214	---	---	---	4,598E+02	1,076E+03
29	BI-212	---	---	---	5,399E+02	1,626E+03
30	BI-214	---	---	---	3,415E+02	8,253E+02
31	RA-226	---	---	---	3,483E+03	8,094E+03
32	AC-228	---	---	---	1,621E+02	4,888E+02
33	TH-227	---	---	---	1,055E+03	2,609E+03
34	TH-230	---	---	---	1,794E+04	4,421E+04
35	TH-234	---	---	---	1,909E+03	4,949E+03
36	PA-234M	---	---	---	5,328E+03	1,606E+04
37	U-235	---	---	---	8,113E+02	1,897E+03
38	AM-241	---	---	---	1,984E+02	4,696E+02

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 219

Auswertung des Gammaskopimetrischen: T2112081

Bezugsdatum:	13.12.2021 15:00:00	Detektor:	GMX6
Messdatum:	14.12.2021 14:36:12	Messzeit: (life)	1000.00 s
Alter der Probe:	84972 Sekunden	Messzeit: (real)	1006.32 s
Probenmasse/Volumen:	0,05	Totzeit:	0.63 %
Nuklidtabelle:	NW6_REF1.ISO	Zählrate:	168.023 cps
Ausbeutekurve:	NW6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	NW6_L02.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UN2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	14.12.2021 15:12:34	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	P750084/20211213/01 21/2134	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Altkonz. [Bq/l]	Erhöht. [%]	Faktor [Bq/l]	ERG [Bq/l]	INWG [Bq/l]
1	BE-7	---	---	---	1,888E+03	4,348E+03
2	K-40	---	---	---	2,776E+02	8,197E+02
3	MN-54	---	---	---	1,861E+01	5,600E+01
4	CO-57	---	---	---	9,861E+01	2,278E+02
5	CO-60	---	---	---	2,649E+01	7,980E+01
6	ZN-65	---	---	---	4,647E+01	1,388E+02
7	SE-75	---	---	---	2,312E+02	5,346E+02
8	SR-85	---	---	---	1,537E+02	3,569E+02
9	Y-88	---	---	---	3,296E+01	9,942E+01
10	NB-94	---	---	---	1,911E+01	5,750E+01
11	RU-106	---	---	---	1,231E+03	2,905E+03
12	AG-108M	---	---	---	2,095E+01	6,329E+01
13	AG-110M	---	---	---	1,403E+02	3,314E+02
14	CD-109	---	---	---	2,161E+03	5,006E+03
15	SN-113	---	---	---	2,414E+02	5,570E+02
16	SB-125	---	---	---	6,335E+02	1,462E+03
17	I-129	---	---	---	1,227E+03	2,943E+03
18	CS-134	---	---	---	1,225E+02	2,888E+02
19	CS-137	1,501E+05	20,3	3,052E+04	9,692E+01	2,325E+02
20	CE-139	---	---	---	1,331E+02	3,073E+02
21	CE-144	---	---	---	8,086E+02	1,868E+03
22	EU-152	---	---	---	5,690E+02	1,314E+03
23	EU-154	---	---	---	9,103E+01	2,743E+02
24	HG-203	---	---	---	1,624E+02	3,745E+02
25	TL-208	---	---	---	1,367E+02	3,224E+02
26	PB-210	---	---	---	2,030E+03	4,803E+03
27	PB-212	---	---	---	2,789E+02	6,431E+02
28	PB-214	---	---	---	4,274E+02	9,860E+02
29	BI-212	---	---	---	2,687E+02	8,016E+02
30	BI-214	---	---	---	2,638E+02	6,212E+02
31	RA-226	---	---	---	3,505E+03	8,058E+03
32	AC-228	---	---	---	7,658E+01	2,302E+02
33	TH-227	---	---	---	1,004E+03	2,446E+03
34	TH-230	---	---	---	2,051E+04	4,976E+04
35	TH-234	---	---	---	2,038E+03	5,224E+03
36	PA-234M	---	---	---	2,502E+03	7,538E+03
37	U-235	---	---	---	8,473E+02	1,955E+03
38	AM-241	---	---	---	2,165E+02	5,065E+02

Bemerkung

2020-10-26_PM_Textblatt A4 Hochformat_REV02

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 220

16 Messergebnisse Laugenmessstelle L800004

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 221

Auswertung des Gammaskopimetrischen: T2103062

Bezugsdatum:	11.03.2021 08:10:00	Detektor:	GMX4
Messdatum:	11.03.2021 12:20:00	Messzeit: (life)	3600.00 s
Alter der Probe:	15000 Sekunden	Messzeit: (real)	3600.34 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.106 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2005T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	11.03.2021 13:57:09	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210311/01 PW1907 21/0318	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Fehler (%)	Fehler (Bq)	BKGS (Bq/l)	NWID (Bq/l)
1	BE-7	---	---	---	1,202E+00	3,061E+00
2	K-40	2,211E+01	24,0	5,314E+00	2,471E+00	6,382E+00
3	MN-54	---	---	---	1,099E-01	3,034E-01
4	CO-57	---	---	---	8,982E-02	2,218E-01
5	CO-60	---	---	---	1,315E-01	3,827E-01
6	ZN-65	---	---	---	2,968E-01	8,068E-01
7	SE-75	---	---	---	1,707E-01	4,320E-01
8	SR-85	---	---	---	1,266E-01	3,248E-01
9	Y-88	---	---	---	1,897E-01	5,386E-01
10	NB-94	---	---	---	1,497E-01	3,947E-01
11	RU-106	---	---	---	1,247E+00	3,316E+00
12	AG-108M	---	---	---	1,475E-01	4,014E-01
13	AG-110M	---	---	---	1,208E-01	3,334E-01
14	CD-109	---	---	---	2,147E+00	5,310E+00
15	SN-113	---	---	---	1,524E-01	3,920E-01
16	SB-125	---	---	---	3,729E-01	9,592E-01
17	I-129	---	---	---	2,373E+00	6,325E+00
18	CS-134	---	---	---	1,342E-01	3,536E-01
19	CS-137	---	---	---	1,398E-01	3,700E-01
20	CE-139	---	---	---	1,027E-01	2,553E-01
21	CE-144	---	---	---	6,309E-01	1,574E+00
22	EU-152	---	---	---	3,842E-01	9,822E-01
23	EU-154	---	---	---	6,235E-01	1,695E+00
24	HG-203	---	---	---	1,302E-01	3,235E-01
25	TL-208	---	---	---	1,392E-01	3,707E-01
26	PB-210	---	---	---	2,744E+00	7,070E+00
27	PB-212	---	---	---	2,120E-01	5,280E-01
28	PB-214	---	---	---	3,404E-01	8,492E-01
29	BI-212	---	---	---	2,088E+00	5,483E+00
30	BI-214	---	---	---	4,110E-01	1,033E+00
31	RA-223	---	---	---	2,813E+00	7,019E+00
32	RA-226	---	---	---	2,420E+00	5,988E+00
33	AC-228	---	---	---	6,563E-01	1,712E+00
34	TH-227	---	---	---	7,476E-01	1,980E+00
35	TH-230	---	---	---	2,889E+01	7,361E+01
36	TH-234	---	---	---	2,305E+00	6,331E+00
37	PA-234M	---	---	---	1,855E+01	4,946E+01
38	U-235	---	---	---	6,888E-01	1,709E+00
39	AM-241	---	---	---	2,695E-01	6,719E-01

Bemerkung

Ergebnisse der internen gammaspektrometrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 222

Auswertung des Gammaskpektrums: T2104132

Bezugsdatum:	23.04.2021 14:00:00	Detektor:	GMX2
Messdatum:	26.04.2021 10:00:00	Messzeit: (life)	5400.00 s
Alter der Probe:	2.83 Tage	Messzeit: (real)	5400.66 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.491 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorbtiionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2008T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	26.04.2021 11:40:47	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210104/01 1xIBC-Nr:74 Plombe:000823 PW1930 21/0561	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	aktiviert [Bq]	Ertrag [%]	Fenster [Bq]	HTG [Bq]	NWKG [Bq]
1	BE-7	---	---	---	1,329E+00	3,382E+00
2	K-40	4,566E+01	22,4	1,023E+01	2,926E+00	7,545E+00
3	MN-54	---	---	---	1,511E-01	4,035E-01
4	CO-57	---	---	---	8,979E-02	2,207E-01
5	CO-60	---	---	---	1,777E-01	4,989E-01
6	ZN-65	---	---	---	3,632E-01	9,785E-01
7	SE-75	---	---	---	1,670E-01	4,217E-01
8	SR-85	---	---	---	1,790E-01	4,472E-01
9	Y-88	---	---	---	1,717E-01	5,180E-01
10	NB-94	---	---	---	2,106E-01	5,395E-01
11	RU-106	---	---	---	1,818E+00	4,640E+00
12	AG-108M	---	---	---	2,070E-01	5,392E-01
13	AG-110M	---	---	---	2,470E-01	6,211E-01
14	CD-109	---	---	---	2,391E+00	5,854E+00
15	SN-113	---	---	---	1,842E-01	4,664E-01
16	SB-125	---	---	---	4,255E-01	1,082E+00
17	I-129	---	---	---	2,006E+00	5,501E+00
18	CS-134	---	---	---	2,089E-01	5,245E-01
19	CS-137	---	---	---	1,633E-01	4,287E-01
20	CE-139	---	---	---	1,176E-01	2,877E-01
21	CE-144	---	---	---	8,212E-01	1,998E+00
22	EU-152	---	---	---	5,086E-01	1,262E+00
23	EU-154	---	---	---	9,229E-01	2,387E+00
24	HG-203	---	---	---	1,393E-01	3,452E-01
25	TL-208	---	---	---	2,696E-01	6,674E-01
26	PB-210	---	---	---	2,964E+00	7,684E+00
27	PB-212	---	---	---	2,906E-01	7,051E-01
28	PB-214	---	---	---	3,546E-01	8,837E-01
29	BI-212	---	---	---	2,523E+00	6,543E+00
30	BI-214	---	---	---	4,901E-01	1,219E+00
31	RA-226	---	---	---	3,139E+00	7,596E+00
32	AC-228	---	---	---	1,043E+00	2,613E+00
33	TH-227	---	---	---	8,090E-01	2,117E+00
34	TH-230	---	---	---	2,799E+01	7,174E+01
35	TH-234	---	---	---	3,388E+00	9,122E+00
36	PA-234M	---	---	---	2,798E+01	7,182E+01
37	U-235	---	---	---	9,761E-01	2,352E+00
38	AM-241	---	---	---	2,722E-01	6,820E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.	Blatt: 223
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN	
9A	65100000	01STS			LE	LF	0024	00	

Auswertung des Gammaskopimetrischen: T2105043

Bezugsdatum: 06.05.2021 08:20:00 Messdatum: 06.05.2021 19:00:00 Alter der Probe: 38400 Sekunden Probenmasse/Volumen: 1 Nuklidtabelle: RS2_REF2.ISO Ausbeutekurve: RS2REF_1.EFF Absorptionskurve: RS2_L01.ABS Nulldatei: UR2008T2.NUL Auswertedatum: 07.05.2021 08:24:05 Kommentar: L800004/20210506/01 PW1935 21/0644	Detektor: GMX2 Messzeit: (life) 7200.00 s Messzeit: (real) 7200.84 s Totzeit: 0.01 % Zählrate: 2.362 cps Fensterbreite: Zerfallskorrektur: 10 Halbwertszeiten max. Halbwertsbreite: 0.67 keV - 2.22 keV Peaksuch-Parameter: 2.50 / 2.50 (20 keV - 2000 keV) Auswertung: Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)
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N	Inhalt	Aktivität		Fehler		ERG	
		Bq/l	(%)	(%)	(Bq)	Bq/l	(%)
1	BE-7	---	---	---	---	1,222E+00	3,035E+00
2	K-40	2,503E+01	23,5	5,893E+00	---	2,698E+00	6,793E+00
3	MN-54	---	---	---	---	1,554E-01	3,972E-01
4	CO-57	---	---	---	---	7,729E-02	1,881E-01
5	CO-60	---	---	---	---	1,439E-01	3,979E-01
6	ZN-65	---	---	---	---	3,607E-01	9,322E-01
7	SE-75	---	---	---	---	1,629E-01	4,012E-01
8	SR-85	---	---	---	---	1,605E-01	3,936E-01
9	Y-88	---	---	---	---	1,628E-01	4,638E-01
10	NB-94	---	---	---	---	1,824E-01	4,597E-01
11	RU-106	---	---	---	---	1,176E+00	3,053E+00
12	AG-108M	---	---	---	---	1,941E-01	4,923E-01
13	AG-110M	---	---	---	---	1,693E-01	4,294E-01
14	CD-109	---	---	---	---	2,188E+00	5,292E+00
15	SN-113	---	---	---	---	1,422E-01	3,584E-01
16	SB-125	---	---	---	---	4,154E-01	1,029E+00
17	I-129	---	---	---	---	2,003E+00	5,376E+00
18	CS-134	---	---	---	---	1,320E-01	3,376E-01
19	CS-137	---	---	---	---	1,803E-01	4,518E-01
20	CE-139	---	---	---	---	1,064E-01	2,569E-01
21	CE-144	---	---	---	---	6,541E-01	1,585E+00
22	EU-152	---	---	---	---	4,531E-01	1,109E+00
23	EU-154	---	---	---	---	8,047E-01	2,044E+00
24	HG-203	---	---	---	---	1,295E-01	3,147E-01
25	TL-208	---	---	---	---	1,976E-01	4,900E-01
26	PB-210	---	---	---	---	2,726E+00	6,971E+00
27	PB-212	---	---	---	---	2,334E-01	5,638E-01
28	PB-214	---	---	---	---	3,496E-01	8,515E-01
29	BI-212	---	---	---	---	2,268E+00	5,756E+00
30	BI-214	---	---	---	---	4,538E-01	1,109E+00
31	RA-226	---	---	---	---	2,607E+00	6,270E+00
32	AC-228	---	---	---	---	7,221E-01	1,825E+00
33	TH-227	---	---	---	---	7,321E-01	1,887E+00
34	TH-230	---	---	---	---	2,341E+01	5,963E+01
35	TH-234	---	---	---	---	2,917E+00	7,800E+00
36	PA-234M	---	---	---	---	2,374E+01	6,006E+01
37	U-235	---	---	---	---	7,199E-01	1,736E+00
38	AM-241	---	---	---	---	2,359E-01	5,853E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 224

Auswertung des Gammaskopimetrischen: T2106153

Bezugsdatum:	14.06.2021 07:50:00	Detektor:	GMX2
Messdatum:	14.06.2021 16:50:00	Messzeit: (life)	10000.00 s
Alter der Probe:	32400 Sekunden	Messzeit: (real)	10001.23 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.608 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	14.06.2021 21:00:07	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210426/01 PW1965 1TB PI:001229 21/0930	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Faktor [%]	Faktor [µBq]	EKG [Bq]	NWV [µBq]
1	BE-7	---	---	---	1,027E+00	2,517E+00
2	K-40	7,112E+01	21,1	1,502E+01	2,210E+00	5,494E+00
3	MN-54	---	---	---	1,118E-01	2,859E-01
4	CO-57	---	---	---	7,389E-02	1,769E-01
5	CO-60	---	---	---	1,836E-01	4,671E-01
6	ZN-65	---	---	---	3,435E-01	8,600E-01
7	SE-75	---	---	---	1,554E-01	3,750E-01
8	SR-85	---	---	---	1,252E-01	3,052E-01
9	Y-88	---	---	---	1,386E-01	3,823E-01
10	NB-94	---	---	---	1,444E-01	3,604E-01
11	RU-106	---	---	---	1,416E+00	3,487E+00
12	AG-108M	---	---	---	1,531E-01	3,846E-01
13	AG-110M	---	---	---	1,423E-01	3,553E-01
14	CD-109	---	---	---	1,900E+00	4,552E+00
15	SN-113	---	---	---	1,363E-01	3,346E-01
16	SB-125	---	---	---	3,034E-01	7,508E-01
17	I-129	---	---	---	1,771E+00	4,695E+00
18	CS-134	---	---	---	1,233E-01	3,070E-01
19	CS-137	---	---	---	1,463E-01	3,623E-01
20	CE-139	---	---	---	7,520E-02	1,817E-01
21	CE-144	---	---	---	5,942E-01	1,421E+00
22	EU-152	---	---	---	3,448E-01	8,402E-01
23	EU-154	---	---	---	6,506E-01	1,633E+00
24	HG-203	---	---	---	1,096E-01	2,635E-01
25	TL-208	---	---	---	1,974E-01	4,774E-01
26	PB-210	4,861E+00	38,9	1,892E+00	2,213E+00	5,622E+00
27	PB-212	---	---	---	2,230E-01	5,301E-01
28	PB-214	---	---	---	2,841E-01	6,863E-01
29	BI-212	---	---	---	2,122E+00	5,247E+00
30	BI-214	---	---	---	3,570E-01	8,665E-01
31	RA-226	---	---	---	2,249E+00	5,356E+00
32	AC-228	---	---	---	5,779E-01	1,445E+00
33	TH-227	---	---	---	7,364E-01	1,858E+00
34	TH-230	---	---	---	2,185E+01	5,495E+01
35	TH-234	---	---	---	2,432E+00	6,462E+00
36	PA-234M	---	---	---	1,986E+01	4,950E+01
37	U-235	---	---	---	6,395E-01	1,525E+00
38	AM-241	---	---	---	2,197E-01	5,377E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 225

Auswertung des Gammaskopimetrischen: T2107073

Bezugsdatum:	12.07.2021 15:40:00	Detektor:	GMX2
Messdatum:	13.07.2021 12:35:00	Messzeit: (life)	6000.00 s
Alter der Probe:	75300 Sekunden	Messzeit: (real)	6000.77 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.660 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	13.07.2021 15:58:16	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210426/01 1xIBC PW1999 21/1183	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität (Bq)	Anteil (%)	Standard (Bq)	Erkennung (Bq)	Unterschied (Bq)
1	BE-7	---	---	---	1,315E+00	3,304E+00
2	K-40	6,901E+01	21,6	1,492E+01	3,091E+00	7,823E+00
3	MN-54	---	---	---	1,816E-01	4,658E-01
4	CO-57	---	---	---	8,753E-02	2,139E-01
5	CO-60	---	---	---	1,459E-01	4,172E-01
6	ZN-65	---	---	---	4,467E-01	1,150E+00
7	SE-75	---	---	---	2,148E-01	5,251E-01
8	SR-85	---	---	---	1,539E-01	3,853E-01
9	Y-88	---	---	---	1,526E-01	4,603E-01
10	NB-94	---	---	---	1,896E-01	4,856E-01
11	RU-106	---	---	---	1,894E+00	4,757E+00
12	AG-108M	---	---	---	2,030E-01	5,231E-01
13	AG-110M	---	---	---	2,211E-01	5,559E-01
14	CD-109	---	---	---	2,448E+00	5,945E+00
15	SN-113	---	---	---	2,209E-01	5,435E-01
16	SB-125	---	---	---	3,817E-01	9,713E-01
17	I-129	---	---	---	2,320E+00	6,241E+00
18	CS-134	---	---	---	1,781E-01	4,496E-01
19	CS-137	---	---	---	1,643E-01	4,249E-01
20	CE-139	---	---	---	1,095E-01	2,670E-01
21	CE-144	---	---	---	7,356E-01	1,790E+00
22	EU-152	---	---	---	4,777E-01	1,181E+00
23	EU-154	---	---	---	9,006E-01	2,306E+00
24	HG-203	---	---	---	1,257E-01	3,106E-01
25	TL-208	---	---	---	2,394E-01	5,932E-01
26	PB-210	---	---	---	3,151E+00	8,077E+00
27	PB-212	---	---	---	2,816E-01	6,799E-01
28	PB-214	---	---	---	3,818E-01	9,369E-01
29	BI-212	---	---	---	2,409E+00	6,201E+00
30	BI-214	---	---	---	5,199E-01	1,275E+00
31	RA-226	---	---	---	3,111E+00	7,484E+00
32	AC-228	---	---	---	9,946E-01	2,479E+00
33	TH-227	---	---	---	8,917E-01	2,295E+00
34	TH-230	---	---	---	2,807E+01	7,149E+01
35	TH-234	---	---	---	3,268E+00	8,766E+00
36	PA-234M	---	---	---	2,436E+01	6,277E+01
37	U-235	---	---	---	8,569E-01	2,068E+00
38	AM-241	---	---	---	2,884E-01	7,148E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 226

Auswertung des Gammaskopimetrischen: T2108050

Bezugsdatum:	09.08.2021 07:00:00	Detektor:	GMX6
Messdatum:	10.08.2021 07:45:00	Messzeit: (life)	2400.00 s
Alter der Probe:	1.03 Tage	Messzeit: (real)	2400.51 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	2.193 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	10.08.2021 08:25:17	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L800004/20210809/01 PW2023 21/1463	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Werte [Bq]	Faktor [rel]	ERG [Bq]	MWGE [Bq]
1	BE-7	---	---	---	9,070E-01	2,553E+00
2	K-40	4,033E+01	22,8	9,187E+00	1,788E+00	5,151E+00
3	MN-54	---	---	---	1,190E-01	3,470E-01
4	CO-57	---	---	---	9,064E-02	2,320E-01
5	CO-60	---	---	---	1,577E-01	4,757E-01
6	ZN-65	---	---	---	4,200E-01	1,140E+00
7	SE-75	---	---	---	1,620E-01	4,342E-01
8	SR-85	---	---	---	1,581E-01	4,130E-01
9	Y-88	---	---	---	2,011E-01	6,074E-01
10	NB-94	---	---	---	1,513E-01	4,220E-01
11	RU-106	---	---	---	1,089E+00	3,172E+00
12	AG-108M	---	---	---	2,004E-01	5,501E-01
13	AG-110M	---	---	---	1,328E-01	3,864E-01
14	CD-109	---	---	---	2,538E+00	6,397E+00
15	SN-113	---	---	---	1,715E-01	4,566E-01
16	SB-125	---	---	---	4,737E-01	1,237E+00
17	I-129	---	---	---	2,557E+00	7,280E+00
18	CS-134	---	---	---	9,461E-02	2,856E-01
19	CS-137	---	---	---	1,606E-01	4,399E-01
20	CE-139	---	---	---	1,140E-01	2,915E-01
21	CE-144	---	---	---	6,877E-01	1,769E+00
22	EU-152	---	---	---	5,200E-01	1,340E+00
23	EU-154	---	---	---	9,029E-01	2,447E+00
24	HG-203	---	---	---	1,133E-01	2,998E-01
25	TL-208	---	---	---	1,485E-01	4,157E-01
26	PB-210	---	---	---	4,021E+00	1,063E+01
27	PB-212	---	---	---	2,539E-01	6,462E-01
28	PB-214	---	---	---	3,693E-01	9,508E-01
29	BI-212	---	---	---	1,741E+00	5,027E+00
30	BI-214	---	---	---	5,403E-01	1,370E+00
31	RA-223	---	---	---	2,529E+00	6,681E+00
32	RA-226	---	---	---	2,721E+00	6,916E+00
33	AC-228	---	---	---	4,313E-01	1,300E+00
34	TH-227	---	---	---	8,661E-01	2,355E+00
35	TH-230	---	---	---	2,730E+01	7,253E+01
36	TH-234	---	---	---	2,619E+00	7,442E+00
37	PA-234M	---	---	---	1,446E+01	4,330E+01
38	U-235	---	---	---	7,793E-01	1,983E+00
39	AM-241	---	---	---	2,059E-01	5,594E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 227

Auswertung des Gammaskopimetrischen: T2108093

Bezugsdatum:	17.08.2021 07:30:00	Detektor:	GMX2
Messdatum:	17.08.2021 13:45:00	Messzeit: (life)	3600.00 s
Alter der Probe:	22500 Sekunden	Messzeit: (real)	3600.47 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.777 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2101T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	17.08.2021 14:53:13	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210705/01 1xIBC Plombe: 001159 PW2034 21/1502	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Amplitude [cpa]	Anteil [%]	Faktor [cpa]	EKG [keV]	NWC [cpa]
1	BE-7	---	---	---	1,792E+00	4,600E+00
2	K-40	9,040E+01	21,9	1,979E+01	3,855E+00	1,011E+01
3	MN-54	---	---	---	1,426E-01	4,153E-01
4	CO-57	---	---	---	1,423E-01	3,482E-01
5	CO-60	---	---	---	3,264E-01	8,831E-01
6	ZN-65	---	---	---	5,703E-01	1,524E+00
7	SE-75	---	---	---	2,446E-01	6,181E-01
8	SR-85	---	---	---	2,894E-01	7,159E-01
9	Y-88	---	---	---	2,532E-01	7,640E-01
10	NB-94	---	---	---	2,686E-01	7,027E-01
11	RU-106	---	---	---	2,352E+00	6,108E+00
12	AG-108M	---	---	---	2,197E-01	6,031E-01
13	AG-110M	---	---	---	2,500E-01	6,585E-01
14	CD-109	---	---	---	3,069E+00	7,596E+00
15	SN-113	---	---	---	2,321E-01	5,987E-01
16	SB-125	---	---	---	6,047E-01	1,548E+00
17	I-129	---	---	---	2,897E+00	7,969E+00
18	CS-134	---	---	---	2,571E-01	6,595E-01
19	CS-137	---	---	---	2,001E-01	5,418E-01
20	CE-139	---	---	---	1,329E-01	3,325E-01
21	CE-144	---	---	---	1,078E+00	2,646E+00
22	EU-152	---	---	---	6,331E-01	1,600E+00
23	EU-154	---	---	---	1,062E+00	2,853E+00
24	HG-203	---	---	---	1,986E-01	4,927E-01
25	TL-208	---	---	---	2,924E-01	7,481E-01
26	PB-210	---	---	---	3,976E+00	1,040E+01
27	PB-212	---	---	---	3,482E-01	8,593E-01
28	PB-214	---	---	---	5,277E-01	1,316E+00
29	BI-212	---	---	---	3,968E+00	1,023E+01
30	BI-214	---	---	---	6,576E-01	1,653E+00
31	RA-226	---	---	---	3,636E+00	8,967E+00
32	AC-228	---	---	---	1,379E+00	3,503E+00
33	TH-227	---	---	---	1,102E+00	2,908E+00
34	TH-230	---	---	---	3,488E+01	9,050E+01
35	TH-234	---	---	---	4,260E+00	1,159E+01
36	PA-234M	---	---	---	3,551E+01	9,315E+01
37	U-235	---	---	---	1,009E+00	2,496E+00
38	AM-241	---	---	---	3,247E-01	8,283E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 228

Auswertung des Gammaskopimetrischen: T2109075

Bezugsdatum:	13.09.2021 09:00:00	Detektor:	GMX2
Messdatum:	13.09.2021 16:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	25200 Sekunden	Messzeit: (real)	3600.47 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS2_REF2.ISO	Zählrate:	2.715 cps
Ausbeutekurve:	RS2REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS2_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T2.NUL	Halbwertsbreite:	0.67 keV - 2.22 keV
Auswertedatum:	13.09.2021 17:07:53	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210809/01 1xIBC Plombe: 001165 PW2043 21/1637	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Isotop	Aktivität [Bq]	Inhalt [%]	Faktor [Bq]	EKS [keV]	NW [Bq]
1	BE-7	---	---	---	1,539E+00	4,030E+00
2	K-40	7,208E+01	22,2	1,601E+01	3,684E+00	9,727E+00
3	MN-54	---	---	---	2,254E-01	6,021E-01
4	CO-57	---	---	---	1,194E-01	2,964E-01
5	CO-60	---	---	---	1,933E-01	5,828E-01
6	ZN-65	---	---	---	5,411E-01	1,458E+00
7	SE-75	---	---	---	2,867E-01	7,136E-01
8	SR-85	---	---	---	2,017E-01	5,182E-01
9	Y-88	---	---	---	2,910E-01	8,495E-01
10	NB-94	---	---	---	1,666E-01	4,728E-01
11	RU-106	---	---	---	1,920E+00	5,132E+00
12	AG-108M	---	---	---	3,008E-01	7,868E-01
13	AG-110M	---	---	---	2,501E-01	6,586E-01
14	CD-109	---	---	---	3,255E+00	8,023E+00
15	SN-113	---	---	---	3,070E-01	7,878E-01
16	SB-125	---	---	---	4,938E-01	1,297E+00
17	I-129	---	---	---	2,591E+00	7,202E+00
18	CS-134	---	---	---	2,571E-01	6,596E-01
19	CS-137	---	---	---	2,001E-01	5,418E-01
20	CE-139	---	---	---	1,486E-01	3,681E-01
21	CE-144	---	---	---	1,038E+00	2,556E+00
22	EU-152	---	---	---	5,328E-01	1,374E+00
23	EU-154	---	---	---	1,256E+00	3,292E+00
24	HG-203	---	---	---	1,755E-01	4,406E-01
25	TL-208	---	---	---	2,933E-01	7,503E-01
26	PB-210	---	---	---	5,282E+00	1,353E+01
27	PB-212	---	---	---	3,362E-01	8,322E-01
28	PB-214	---	---	---	5,279E-01	1,316E+00
29	BI-212	---	---	---	3,964E+00	1,022E+01
30	BI-214	---	---	---	7,007E-01	1,750E+00
31	RA-226	---	---	---	3,559E+00	8,792E+00
32	AC-228	---	---	---	1,127E+00	2,933E+00
33	TH-227	---	---	---	1,029E+00	2,736E+00
34	TH-230	---	---	---	3,554E+01	9,209E+01
35	TH-234	---	---	---	4,148E+00	1,130E+01
36	PA-234M	---	---	---	3,856E+01	1,000E+02
37	U-235	---	---	---	1,128E+00	2,765E+00
38	AM-241	---	---	---	3,688E-01	9,309E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 229

Auswertung des Gammaskopimetrischen: T2110083

Bezugsdatum:	13.10.2021 10:20:00	Detektor:	GMX6
Messdatum:	13.10.2021 19:00:00	Messzeit: (life)	40000.00 s
Alter der Probe:	31200 Sekunden	Messzeit: (real)	40007.64 s
Probenmasse/Volumen:	1	Totzeit:	0.02 %
Nuklidtabelle:	RS6_REF1.ISO	Zählrate:	1.978 cps
Ausbeutekurve:	RS6REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS6_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2105T6.NUL	Halbwertsbreite:	0.67 keV - 2.14 keV
Auswertedatum:	14.10.2021 06:56:17	Peaksuch-Parameter:	2.50 / 2.50 (15 keV - 2020 keV)
Kommentar:	L800004/20211013/01 PW2053 21/1808	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr.	Isotop	Aktivität [Bq]	Anteil [%]	Fähigkeit [cpd]	BKG [Bq]	MWG [L]
1	BE-7	---	---	---	2,832E-01	6,683E-01
2	K-40	3,135E+01	20,7	6,495E+00	3,880E-01	9,428E-01
3	MN-54	---	---	---	3,365E-02	8,056E-02
4	CO-57	---	---	---	2,176E-02	5,083E-02
5	CO-60	---	---	---	4,441E-02	1,075E-01
6	ZN-65	---	---	---	8,613E-02	2,058E-01
7	SE-75	---	---	---	4,546E-02	1,070E-01
8	SR-85	---	---	---	3,379E-02	7,952E-02
9	Y-88	---	---	---	3,824E-02	9,562E-02
10	NB-94	---	---	---	3,631E-02	8,669E-02
11	RU-106	---	---	---	3,453E-01	8,231E-01
12	AG-108M	---	---	---	3,935E-02	9,488E-02
13	AG-110M	---	---	---	4,071E-02	9,724E-02
14	CD-109	---	---	---	5,332E-01	1,249E+00
15	SN-113	---	---	---	4,129E-02	9,722E-02
16	SB-125	---	---	---	8,339E-02	1,982E-01
17	I-129	---	---	---	6,068E-01	1,557E+00
18	CS-134	---	---	---	3,930E-02	9,313E-02
19	CS-137	---	---	---	3,679E-02	8,757E-02
20	CE-139	---	---	---	2,612E-02	6,107E-02
21	CE-144	---	---	---	1,792E-01	4,181E-01
22	EU-152	---	---	---	9,836E-02	2,320E-01
23	EU-154	---	---	---	1,713E-01	4,116E-01
24	HG-203	---	---	---	3,226E-02	7,534E-02
25	TL-208	1,335E-01	28,9	3,857E-02	3,618E-02	8,658E-02
26	PB-210	2,200E+00	33,8	7,431E-01	8,039E-01	1,973E+00
27	PB-212	2,202E-01	26,2	5,778E-02	5,247E-02	1,227E-01
28	PB-214	---	---	---	7,059E-02	1,662E-01
29	BI-212	---	---	---	5,275E-01	1,255E+00
30	BI-214	1,260E-01	42,0	5,294E-02	8,575E-02	2,026E-01
31	RA-223	---	---	---	5,999E-01	1,412E+00
32	RA-226	---	---	---	6,190E-01	1,444E+00
33	AC-228	---	---	---	1,380E-01	3,310E-01
34	TH-227	---	---	---	2,036E-01	5,030E-01
35	TH-230	---	---	---	6,388E+00	1,569E+01
36	TH-234	---	---	---	6,251E-01	1,629E+00
37	PA-234M	---	---	---	4,396E+00	1,056E+01
38	U-235	---	---	---	1,761E-01	4,112E-01
39	AM-241	---	---	---	6,515E-02	1,554E-01

Bemerkung

Ergebnisse der internen gammaskopmetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNA	NNNNNNNNN	NNAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	6510000	01STS			LE	LF	0024	00

Blatt: 230

Auswertung des Gammaskopmetrischen: T2111006

Bezugsdatum:	01.11.2021 14:45:00	Detektor:	GMX4
Messdatum:	01.11.2021 20:00:00	Messzeit: (life)	3600.00 s
Alter der Probe:	18900 Sekunden	Messzeit: (real)	3600.38 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.607 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	02.11.2021 06:37:15	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20210513/01 PW2065 1xIBC PL:001207 21/1893	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

Nr	Komp	Aktivität Bq/l	Anteil (%)	Anteil Bq/l	BKG Bq/l	NWC Bq/l
1	BE-7	---	---	---	9,153E-01	2,415E+00
2	K-40	5,798E+01	21,7	1,259E+01	1,973E+00	5,258E+00
3	MN-54	---	---	---	1,378E-01	3,663E-01
4	CO-57	---	---	---	9,292E-02	2,288E-01
5	CO-60	---	---	---	1,740E-01	4,787E-01
6	ZN-65	---	---	---	4,021E-01	1,044E+00
7	SE-75	---	---	---	1,677E-01	4,252E-01
8	SR-85	---	---	---	1,187E-01	3,071E-01
9	Y-88	---	---	---	2,246E-01	6,176E-01
10	NB-94	---	---	---	1,497E-01	3,948E-01
11	RU-106	---	---	---	1,504E+00	3,897E+00
12	AG-108M	---	---	---	1,881E-01	4,932E-01
13	AG-110M	---	---	---	1,119E-01	3,132E-01
14	CD-109	---	---	---	2,555E+00	6,238E+00
15	SN-113	---	---	---	1,654E-01	4,213E-01
16	SB-125	---	---	---	3,384E-01	8,815E-01
17	I-129	---	---	---	2,580E+00	6,828E+00
18	CS-134	---	---	---	1,506E-01	3,907E-01
19	CS-137	---	---	---	1,520E-01	3,975E-01
20	CE-139	---	---	---	1,028E-01	2,554E-01
21	CE-144	---	---	---	8,171E-01	1,996E+00
22	EU-152	---	---	---	3,961E-01	1,009E+00
23	EU-154	---	---	---	7,637E-01	2,012E+00
24	HG-203	---	---	---	1,182E-01	2,964E-01
25	TL-208	---	---	---	1,662E-01	4,317E-01
26	PB-210	5,312E+00	39,4	2,092E+00	2,702E+00	6,972E+00
27	PB-212	---	---	---	2,417E-01	5,952E-01
28	PB-214	---	---	---	3,641E-01	9,028E-01
29	BI-212	---	---	---	2,335E+00	6,040E+00
30	BI-214	1,037E+00	37,1	3,844E-01	4,124E-01	1,037E+00
31	RA-223	---	---	---	2,814E+00	7,020E+00
32	RA-226	---	---	---	2,334E+00	5,795E+00
33	AC-228	---	---	---	5,818E-01	1,544E+00
34	TH-227	---	---	---	8,011E-01	2,108E+00
35	TH-230	---	---	---	2,750E+01	7,029E+01
36	TH-234	---	---	---	2,337E+00	6,412E+00
37	PA-234M	---	---	---	2,419E+01	6,219E+01
38	U-235	---	---	---	7,223E-01	1,785E+00
39	AM-241	---	---	---	2,837E-01	7,045E-01

Bemerkung

Ergebnisse der internen gammaskopimetrischen Messungen von Salzlösungen für das Jahr 2021



Projekt	PSP-Element	Funktion/Thema	Komponente	Baugruppe	Aufgabe	UA	Lfd Nr.	Rev.
NNAA	NNNNNNNNNN	NNAAANN	AANNNA	AANN	AA	AA	NNNN	NN
9A	65100000	01STS			LE	LF	0024	00

Blatt: 231

Auswertung des Gammaskopimetrischen: T2112061

Bezugsdatum:	08.12.2021 08:30:00	Detektor:	GMX4
Messdatum:	08.12.2021 17:15:00	Messzeit: (life)	3600.00 s
Alter der Probe:	31500 Sekunden	Messzeit: (real)	3600.38 s
Probenmasse/Volumen:	1	Totzeit:	0.01 %
Nuklidtabelle:	RS4_REF3.ISO	Zählrate:	2.509 cps
Ausbeutekurve:	RS4REF_1.EFF	Fensterbreite:	
Absorptionskurve:	RS4_L01.ABS	Zerfallskorrektur:	10 Halbwertszeiten max.
Nulldatei:	UR2108T4.NUL	Halbwertsbreite:	0.92 keV - 2.28 keV
Auswertedatum:	08.12.2021 19:01:39	Peaksuch-Parameter:	2.50 / 2.50 (20 keV - 2000 keV)
Kommentar:	L800004/20211018/01 1xIBC Plombe:001201 PW2080 21/2119	Auswertung:	Version 7.10.3071 - GE/Dekonvolution (1.00*SIGMA)

N	Isotop	Aktivität (Bq/l)	Ergebnis (Bq)	Korrektur (Bq/l)	ERF (Bq/l)	NWT (Bq/l)
1	BE-7	---	---	---	1,355E+00	3,406E+00
2	K-40	8,108E+01	21,3	1,730E+01	1,454E+00	4,086E+00
3	MN-54	---	---	---	1,663E-01	4,304E-01
4	CO-57	---	---	---	8,223E-02	2,046E-01
5	CO-60	---	---	---	1,973E-01	5,313E-01
6	ZN-65	---	---	---	2,788E-01	7,665E-01
7	SE-75	---	---	---	1,746E-01	4,408E-01
8	SR-85	---	---	---	1,605E-01	4,014E-01
9	Y-88	---	---	---	1,440E-01	4,354E-01
10	NB-94	---	---	---	1,674E-01	4,346E-01
11	RU-106	---	---	---	1,456E+00	3,790E+00
12	AG-108M	---	---	---	1,278E-01	3,567E-01
13	AG-110M	---	---	---	1,583E-01	4,182E-01
14	CD-109	---	---	---	2,496E+00	6,103E+00
15	SN-113	---	---	---	1,813E-01	4,573E-01
16	SB-125	---	---	---	3,729E-01	9,595E-01
17	I-129	---	---	---	2,740E+00	7,218E+00
18	CS-134	---	---	---	1,464E-01	3,811E-01
19	CS-137	---	---	---	1,460E-01	3,841E-01
20	CE-139	---	---	---	1,124E-01	2,772E-01
21	CE-144	---	---	---	7,181E-01	1,772E+00
22	EU-152	---	---	---	4,209E-01	1,065E+00
23	EU-154	---	---	---	6,614E-01	1,780E+00
24	HG-203	---	---	---	1,244E-01	3,103E-01
25	TL-208	---	---	---	2,247E-01	5,641E-01
26	PB-210	---	---	---	3,468E+00	8,770E+00
27	PB-212	---	---	---	2,011E-01	5,035E-01
28	PB-214	---	---	---	3,408E-01	8,502E-01
29	BI-212	---	---	---	1,808E+00	4,853E+00
30	BI-214	---	---	---	3,141E-01	8,148E-01
31	RA-223	---	---	---	2,900E+00	7,216E+00
32	RA-226	---	---	---	2,590E+00	6,372E+00
33	AC-228	---	---	---	6,077E-01	1,603E+00
34	TH-227	---	---	---	9,759E-01	2,525E+00
35	TH-230	---	---	---	2,971E+01	7,554E+01
36	TH-234	---	---	---	2,818E+00	7,622E+00
37	PA-234M	---	---	---	1,760E+01	4,732E+01
38	U-235	---	---	---	6,764E-01	1,681E+00
39	AM-241	---	---	---	2,837E-01	7,045E-01

Bemerkung