2021 Radioaktivität in Lebensmitteln in Bq/kg(FM)

HPN	Probe	Imp	Staat	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144
Bremen										
2101N11A0	Rohmilch			5.09E+01	< 3.61E-02	< 3.20E-02	< 3.92E-02	< 2.97E-02	< 3.53E-02	< 2.74E-01
2102N11A0	Rohmilch			5.28E+01	< 5.61E-02	< 4.93E-02	< 6.84E-02	< 4.74E-02	9.94E-02	< 4.02E-01
2103N11A0	Rohmilch			4.76E+01	< 4.42E-02	< 4.09E-02	< 4.72E-02	< 4.12E-02	7.90E-02	< 3.64E-01
2104N11A0	Rohmilch			4.25E+01	< 3.63E-02	< 3.23E-02	< 3.60E-02	< 2.91E-02	1.54E-01	< 2.00E-01
2105N11A0	Rohmilch			4.85E+01	< 3.06E-02	< 2.62E-02	< 3.50E-02	< 2.44E-02	3.00E-02	< 2.18E-01
2106N11A0	Rohmilch			5.08E+01	< 5.93E-02	< 4.85E-02	< 6.93E-02	< 4.32E-02	1.27E-01	< 4.03E-01
2107N11A0	Rohmilch			5.05E+01	< 6.26E-02	< 5.67E-02	< 6.53E-02	< 5.24E-02	2.32E-01	< 4.28E-01
2108N11A0	Rohmilch			4.21E+01	< 5.21E-02	< 4.71E-02	< 5.11E-02	< 4.47E-02	1.45E-01	< 3.01E-01
2109N11A0	Rohmilch			4.83E+01	< 5.64E-02	< 5.55E-02	< 8.19E-02	< 4.73E-02	1.49E-01	< 4.16E-01
2110N11A0	Rohmilch			4.33E+01	< 6.41E-02	< 5.37E-02	< 7.17E-02	< 5.01E-02	< 6.66E-02	< 3.35E-01
2111N11A0	Rohmilch			4.95E+01	< 5.09E-02	< 4.90E-02	< 5.54E-02	< 4.57E-02	< 6.02E-02	< 3.95E-01
2112N11A0	Rohmilch			4.46E+01	< 5.79E-02	< 5.50E-02	< 7.38E-02	< 4.70E-02	1.44E-01	< 4.16E-01
2101N21A0	Kopfsalat	X	Belgien	9.05E+01	< 7.53E-02	< 6.55E-02	< 8.12E-02	< 6.55E-02	< 8.23E-02	< 5.68E-01
2104N21A0	Spinat			1.68E+02	< 8.54E-02	< 7.05E-02	< 8.23E-02	< 6.29E-02	< 7.76E-02	< 4.10E-01
2106N21A0	Kopfsalat			9.75E+01	< 1.28E-01	< 1.42E-01	< 4.30E-01	< 1.08E-01	1.32E-01	< 9.50E-01
2107N21A0	Weißkohl. Spitzkohl			6.35E+01	< 1.16E-01	< 8.99E-02	< 1.16E-01	< 9.26E-02	< 1.15E-01	< 8.32E-01
2109N21A0	Porree			5.49E+01	< 1.04E-01	< 1.18E-01	< 2.12E-01	< 9.43E-02	< 1.25E-01	< 8.99E-01
2112N21A0	Grünkohl			9.96E+01	< 9.69E-02	< 8.98E-02	< 1.30E-01	< 8.39E-02	< 9.24E-02	< 7.34E-01
2107N22A0	Erbse ohne Schote			3.16E+01	< 4.66E-02	< 4.33E-02	< 5.33E-02	< 3.91E-02	< 4.77E-02	< 3.61E-01
2108N21A0	Rote Bete			8.99E+01	< 4.03E-02	< 3.39E-02	< 4.26E-02	< 3.12E-02	< 3.66E-02	< 2.63E-01
2108N23A0	Bohne grüne			9.78E+01	< 5.19E-02	< 4.85E-02	< 1.24E-01	< 3.97E-02	< 4.31E-02	< 3.37E-01
2102N21A0	Zwiebel	X	Spanien	3.14E+01	< 8.49E-02	< 7.78E-02	< 8.82E-02	< 7.22E-02	< 8.46E-02	< 6.51E-01
2105N21A0	Kohlrabi			7.85E+01	< 4.97E-02	< 4.41E-02	< 5.58E-02	< 4.13E-02	< 5.13E-02	< 2.60E-01
2107N23A0	Blumenkohl			8.12E+01	< 9.08E-02	< 7.98E-02	< 8.58E-02	< 7.70E-02	< 8.51E-02	< 6.55E-01
2103N21A0	Kartoffeln	X	Frankreich	1.35E+02	< 5.26E-02	< 4.31E-02	< 5.39E-02	< 4.10E-02	< 4.74E-02	< 3.47E-01
2104N22A0	Kartoffeln	X	Frankreich	1.37E+02	< 7.21E-02	< 6.10E-02	< 1.00E-01	< 5.78E-02	< 6.62E-02	< 4.80E-01
2109N22A0	Kartoffeln			1.46E+02	< 9.31E-02	< 8.02E-02	< 1.33E-01	< 6.63E-02	< 7.91E-02	< 5.79E-01
2102N31A0	Weizenkörner	X	Österreich	1.08E+02	< 4.20E-02	< 3.72E-02	< 5.60E-02	< 3.40E-02	< 3.99E-02	< 2.19E-01
2106N31A0	Weizenkörner			1.10E+02	< 4.04E-02	< 3.34E-02	< 3.71E-02	< 3.11E-02	< 3.84E-02	< 2.03E-01
2108N31A0	Weizenkörner			9.48E+01	< 7.81E-02	< 6.64E-02	< 7.98E-02	< 6.41E-02	< 7.28E-02	< 4.22E-01
2109N31A0	Roggenkörner			1.46E+02	< 9.84E-02	< 7.76E-02	< 9.18E-02	< 7.19E-02	1.57E-01	< 5.82E-01
2110N31A0	Roggenkörner			1.59E+02	< 6.53E-02	< 6.08E-02	< 1.29E-01	< 5.16E-02	< 6.57E-02	< 4.69E-01
2102N32A0	Roggenkörner	X	Tschechische Republik	1.17E+02	< 6.77E-02	< 6.11E-02	< 6.23E-02	< 5.88E-02	< 6.29E-02	< 3.98E-01

2021 Radioaktivität in Lebensmitteln in Bq/kg(FM)

HPN	Probe	Imp	Staat	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144
Bremen										
2101N41A0	Orange	X	Italien	3.65E+01	< 5.04E-02	< 4.55E-02	< 5.44E-02	< 3.93E-02	< 4.42E-02	< 3.71E-01
2102N41A0	Orange	X	Spanien	4.02E+01	< 5.68E-02	< 4.83E-02	< 5.59E-02	< 4.78E-02	< 5.52E-02	< 3.26E-01
2107N41A0	Süßkirsche			5.77E+01	< 3.14E-02	< 2.82E-02	< 3.71E-02	< 2.62E-02	< 2.99E-02	< 2.33E-01
2111N41A0	Tafelweintraube weiß	X	Peru	5.78E+01	< 6.46E-02	< 5.78E-02	< 6.33E-02	< 5.47E-02	< 1.01E-01	< 4.55E-01
2107N42A0	Johannisbeere rot			7.16E+01	< 3.73E-02	< 3.35E-02	< 4.21E-02	< 3.02E-02	< 3.54E-02	< 2.05E-01
2109N42A0	Pflaume			8.50E+01	< 8.33E-02	< 7.94E-02	< 1.18E-01	< 7.26E-02	< 7.53E-02	< 4.57E-01
2107N43A0	Stachelbeere			4.72E+01	< 5.39E-02	< 4.63E-02	< 4.82E-02	< 4.46E-02	< 4.91E-02	< 3.05E-01
2102N51A0	Rindfleisch			9.41E+01	< 7.28E-02	< 5.55E-02	< 6.52E-02	< 5.35E-02	< 7.16E-02	< 3.54E-01
2103N51A0	Rindfleisch	X	Irland	1.01E+02	< 9.58E-02	< 8.53E-02	< 1.36E-01	< 7.63E-02	6.76E-02	< 4.47E-01
2106N51A0	Rindfleisch			7.26E+01	< 6.56E-02	< 7.29E-02	< 2.24E-01	< 4.89E-02	1.49E-01	< 3.57E-01
2108N51A0	Rindfleisch			9.33E+01	< 5.09E-02	< 5.84E-02	< 3.09E-01	< 4.03E-02	7.18E-02	< 3.91E-01
2110N51A0	Rindfleisch	X	Irland	1.08E+02	< 6.36E-02	< 5.19E-02	< 6.55E-02	< 4.55E-02	< 6.34E-02	< 4.35E-01
2111N51A0	Rindfleisch			9.44E+01	< 7.11E-02	< 6.46E-02	< 8.22E-02	< 5.74E-02	< 7.03E-02	< 4.08E-01
2112N51A0	Rindfleisch			9.02E+01	< 6.50E-02	< 5.27E-02	< 8.00E-02	< 4.77E-02	7.10E-01	< 4.41E-01
2102N52A0	Kalbfleisch			1.12E+02	< 7.47E-02	< 5.53E-02	< 6.67E-02	< 5.25E-02	1.91E-01	< 4.42E-01
2103N52A0	Kalbfleisch	X	Niederlande	1.01E+02	< 9.17E-02	< 8.05E-02	< 1.27E-01	< 7.75E-02	3.57E-01	< 5.84E-01
2106N52A0	Kalbfleisch			1.13E+02	< 7.15E-02	< 6.93E-02	< 1.86E-01	< 5.48E-02	2.19E-01	< 4.58E-01
2111N52A0	Kalbfleisch	X	Niederlande	1.06E+02	< 7.26E-02	< 6.17E-02	< 8.22E-02	< 5.61E-02	3.01E-01	< 4.91E-01
2102N53A0	Schweinefleisch			1.08E+02	< 6.16E-02	< 4.91E-02	< 6.41E-02	< 4.85E-02	8.09E-02	< 4.38E-01
2103N53A0	Schweinefleisch	X	Griechenland	1.06E+02	< 7.06E-02	< 7.05E-02	< 1.81E-01	< 5.76E-02	< 6.57E-02	< 3.56E-01
2104N52A0	Schweinefleisch			8.28E+01	< 6.22E-02	< 6.13E-02	< 1.16E-01	< 4.81E-02	1.51E-01	< 3.12E-01
2105N51A0	Schweinefleisch			9.22E+01	< 6.36E-02	< 5.38E-02	< 7.66E-02	< 4.88E-02	5.66E-02	< 3.11E-01
2108N52A0	Schweinefleisch			8.70E+01	< 6.32E-02	< 7.60E-02	< 3.57E-01	< 5.16E-02	< 6.70E-02	< 3.59E-01
2110N53A0	Schweinefleisch	X	Spanien	1.05E+02	< 7.14E-02	< 5.90E-02	< 6.57E-02	< 5.66E-02	< 6.63E-02	< 4.54E-01
2111N53A0	Schweinefleisch			8.65E+01	< 7.50E-02	< 6.68E-02	< 8.86E-02	< 6.13E-02	< 8.78E-02	< 4.89E-01
2112N52A0	Schweinefleisch			1.03E+02	< 8.26E-02	< 6.14E-02	< 7.67E-02	< 6.08E-02	3.99E-02	< 5.13E-01
2102N54A0	Ente			6.39E+01	< 7.82E-02	< 8.69E-02	< 1.55E-01	< 7.12E-02	< 8.48E-02	< 4.47E-01
2103N54A0	Gans		Polen	7.38E+01	< 8.07E-02	< 7.86E-02	< 1.54E-01	< 7.02E-02	< 8.26E-02	< 5.73E-01
2110N54A0	Gans			9.36E+01	< 4.69E-02	< 4.36E-02	< 8.19E-02	< 3.53E-02	< 4.29E-02	< 3.04E-01
2110N55A0	Pute	X	Ungarn	1.06E+02	< 6.08E-02	< 5.54E-02	< 9.13E-02	< 4.73E-02	< 5.70E-02	< 4.50E-01
2102N91A0	Käse aus Kuhmilch	X	Italien	2.92E+01	< 1.03E-01	< 9.30E-02	< 1.08E-01	< 9.86E-02	< 1.11E-01	< 7.83E-01
2108N91A0	Käse aus Kuhmilch	X	Schweiz	2.31E+01	< 7.14E-02	< 7.00E-02	< 9.73E-02	< 6.54E-02	< 7.26E-02	< 4.16E-01

2021 Radioaktivität in Lebensmitteln in Bq/kg(FM)

HPN	Probe	Imp	Staat	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144
Bremerhaven										
2110N21B0	Kartoffeln			1.17E+02	< 4.46E-02	< 3.84E-02	< 5.50E-02	< 3.52E-02	< 4.31E-02	< 3.24E-01
2108N22B0	Mohrrübe; Karotte; Möhre			1.25E+02	< 1.10E-01	< 9.39E-02	< 1.14E-01	< 8.43E-02	< 9.63E-02	< 6.98E-01
2112N22B0	Grünkohl			1.08E+02	< 1.16E-01	< 1.04E-01	< 1.34E-01	< 1.02E-01	< 1.14E-01	< 6.82E-01
2108N32B0	Weizenkörner			1.05E+02	< 7.38E-02	< 6.90E-02	< 1.21E-01	< 6.11E-02	< 6.67E-02	< 3.77E-01
2109N32B0	Roggenkörner			1.69E+02	< 8.77E-02	< 7.44E-02	< 1.41E-01	< 6.20E-02	< 7.36E-02	< 5.19E-01
2106N41B0	Erdbeere			5.03E+01	< 5.57E-02	< 4.91E-02	< 8.21E-02	< 4.56E-02	< 5.54E-02	< 3.92E-01
2109N41B0	Apfel			3.90E+01	< 8.45E-02	< 9.01E-02	< 1.64E-01	< 7.73E-02	< 8.21E-02	< 6.67E-01
2111N42B0	Banane	X	Guatemala	1.16E+02	< 6.15E-02	< 5.36E-02	< 6.47E-02	< 5.00E-02	< 6.21E-02	< 4.69E-01
2104N51B0	Rindfleisch			8.03E+01	< 6.22E-02	< 6.65E-02	< 1.85E-01	< 4.82E-02	2.85E-01	< 4.25E-01
2110N52B0	Kalbfleisch			1.07E+02	< 7.01E-02	< 6.69E-02	< 1.24E-01	< 5.77E-02	1.27E-01	< 4.97E-01
2101N51B0	Schweinefleisch			1.03E+02	< 7.43E-02	< 6.29E-02	< 1.15E-01	< 5.51E-02	< 7.16E-02	< 4.57E-01
2106N53B0	Schweinefleisch			1.02E+02	< 6.94E-02	< 5.98E-02	< 1.00E-01	< 5.53E-02	< 6.93E-02	< 3.50E-01
2101N61B0	Schellfisch	X	Norwegen	1.10E+02	< 1.20E-01	< 1.30E-01	< 3.85E-01	< 9.21E-02	< 1.19E-01	< 5.83E-01
2102N61B0	Rotbarsch	X	Island	9.81E+01	< 8.59E-02	< 7.78E-02	< 1.14E-01	< 7.61E-02	1.34E-01	< 5.84E-01
2103N61B0	Seelachs	x	Norwegen	1.16E+02	< 1.07E-01	< 1.05E-01	< 2.49E-01	< 8.98E-02	1.10E-01	< 5.54E-01
2104N61B0	Rotbarsch	X	Island	9.99E+01	< 6.59E-02	< 5.47E-02	< 9.02E-02	< 4.65E-02	6.50E-02	< 4.07E-01
2105N61B0	Seefische andere	X	Griechenland	1.04E+02	< 9.87E-02	< 9.91E-02	< 2.58E-01	< 7.88E-02	< 1.01E-01	< 6.42E-01
2106N61B0	Rotbarsch	X	Island	7.77E+01	< 1.10E-01	< 1.08E-01	< 1.87E-01	< 9.03E-02	< 1.12E-01	< 5.29E-01
2107N61B0	Rotbarsch	X	Island	9.40E+01	< 1.47E-01	< 1.30E-01	< 2.16E-01	< 1.10E-01	1.19E-01	< 6.69E-01
2108N61B0	Schellfisch	X	Norwegen	1.21E+02	< 9.33E-02	< 9.63E-02	< 3.02E-01	< 7.06E-02	1.64E-01	< 6.70E-01
2109N61B0	Rotbarsch	X	Island	8.61E+01	< 9.39E-02	< 1.09E-01	< 3.43E-01	< 7.48E-02	< 9.02E-02	< 4.69E-01
2110N61B0	Angler	X	Norwegen	7.14E+01	< 9.02E-02	< 8.82E-02	< 1.38E-01	< 8.07E-02	< 9.72E-02	< 5.02E-01
2111N61B0	Rotbarsch	X	Island	1.06E+02	< 1.08E-01	< 9.31E-02	< 1.23E-01	< 9.02E-02	< 1.31E-01	< 7.27E-01
2112N61B0	Schwarzer Heilbutt	X	Dänemark	7.45E+01	< 8.90E-02	< 8.79E-02	< 1.23E-01	< 8.03E-02	< 1.06E-01	< 5.22E-01

Maximalwerte:	1.69E+02	1.47E-01	1.42E-01	4.30E-01	1.10E-01	7.10E-01	9.50E-01
Minimalwerte:	2.31E+01	3.06E-02	2.62E-02	3.50E-02	2.44E-02	2.99E-02	2.00E-01
Mittelwerte:	8.69E+01	7.27E-02	6.69E-02	1.17E-01	5.90E-02	1.03E-01	4.59E-01

Achtung: Berechnete Minimal-. Maximal- und Mittelwerte stellen nur Arbeitshilfen dar. da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Sr-90 Messungen: 2101N11A, 2102N11A, 2103N11A, 2104N11A, 2104N21A, 2105N11A, 2105N21A, 2106N11A, 2107N11A, 2107N23A, 2108N11A, 2109N11A, 2110N11A, 2111N11A, 2112N11A

2021 Radioaktivität in der Gesamtnahrung in Bq/(d*p) und in der Säuglingsnahrung in Bq/kg(FM)

HPN	Probe	K 40	Co 60	Ru 103	Cs 134	Cs 137	Ce 144
2101N82A0	Gesamtnahrung	8.38E+01	< 2.52E-02	< 2.33E-02	< 1.97E-02	< 3.53E-02	< 1.07E-01
2101N83A0	Gesamtnahrung	7.65E+01	< 2.69E-02	< 2.67E-02	< 2.04E-02	1.55E-02	< 1.10E-01
2102N82A0	Gesamtnahrung	6.41E+01	< 2.85E-02	< 2.92E-02	< 2.28E-02	< 3.64E-02	< 1.22E-01
2102N83A0	Gesamtnahrung	8.23E+01	< 2.38E-02	< 3.16E-02	< 1.98E-02	8.72E-02	< 1.14E-01
2103N82A0	Gesamtnahrung	6.98E+01	< 4.77E-02	< 4.89E-02	< 3.41E-02	< 4.27E-02	< 1.90E-01
2103N83A0	Gesamtnahrung	6.40E+01	< 3.03E-02	< 3.83E-02	< 2.31E-02	3.51E-01	< 1.32E-01
2104N82A0	Gesamtnahrung	6.17E+01	< 5.22E-02	< 5.58E-02	< 3.80E-02	< 4.42E-02	< 2.13E-01
2104N83A0	Gesamtnahrung	5.56E+01	< 3.58E-02	< 5.04E-02	< 3.31E-02	< 3.36E-02	< 1.80E-01
2104N84A0	Gesamtnahrung	7.21E+01	< 5.32E-02	< 5.34E-02	< 4.05E-02	< 4.60E-02	< 2.29E-01
2105N82A0	Gesamtnahrung	9.73E+01	< 2.69E-02	< 3.11E-02	< 2.04E-02	4.73E-02	< 1.14E-01
2105N83A0	Gesamtnahrung	9.66E+01	< 2.46E-02	< 2.41E-02	< 1.98E-02	1.60E-02	< 1.12E-01
2106N82A0	Gesamtnahrung	8.65E+01	< 5.05E-02	< 6.71E-02	< 3.64E-02	6.22E-01	< 2.08E-01
2106N83A0	Gesamtnahrung	8.63E+01	< 4.58E-02	< 5.06E-02	< 3.37E-02	< 4.01E-02	< 1.90E-01
2107N82A0	Gesamtnahrung	7.88E+01	< 4.56E-02	< 9.15E-02	< 3.47E-02	< 4.71E-02	< 2.19E-01
2107N83A0	Gesamtnahrung	7.88E+01	< 2.39E-02	< 2.77E-02	< 1.83E-02	3.55E-02	< 1.13E-01
2108N82A0	Gesamtnahrung	6.17E+01	< 4.63E-02	< 4.45E-02	< 3.76E-02	< 4.27E-02	< 1.92E-01
2108N83A0	Gesamtnahrung	8.56E+01	< 4.70E-02	< 4.16E-02	< 3.42E-02	3.26E-02	< 1.82E-01
2109N82A0	Gesamtnahrung	6.79E+01	< 4.48E-02	< 4.05E-02	< 3.28E-02	< 4.21E-02	< 1.81E-01
2109N83A0	Gesamtnahrung	7.74E+01	< 3.77E-02	< 4.14E-02	< 3.06E-02	< 3.51E-02	< 1.65E-01
2109N84A0	Gesamtnahrung	7.85E+01	< 5.69E-02	< 5.44E-02	< 4.12E-02	< 7.58E-02	< 2.46E-01
2109N86A0	Gesamtnahrung	7.89E+01	< 2.55E-02	< 2.83E-02	< 1.95E-02	2.11E-02	< 1.17E-01
2110N82A0	Gesamtnahrung	7.70E+01	< 4.73E-02	< 4.89E-02	< 3.63E-02	< 4.10E-02	< 2.12E-01
2110N83A0	Gesamtnahrung	8.39E+01	< 3.35E-02	< 3.18E-02	< 2.45E-02	3.68E-01	< 1.57E-01
2111N82A0	Gesamtnahrung	5.09E+01	< 4.91E-02	< 4.87E-02	< 4.12E-02	< 4.52E-02	< 2.50E-01
2111N83A0	Gesamtnahrung	6.22E+01	< 3.04E-02	< 3.30E-02	< 2.64E-02	2.01E-01	< 1.49E-01
2112N82A0	Gesamtnahrung	5.43E+01	< 4.31E-02	< 7.10E-02	< 3.53E-02	< 6.30E-02	< 2.22E-01
2112N83A0	Gesamtnahrung	8.14E+01	< 4.12E-02	< 5.31E-02	< 3.27E-02	< 4.21E-02	< 1.91E-01
2101N81A0	Kindernahrung	8.45E+01	< 4.01E-02	< 3.27E-02	< 2.69E-02	< 3.30E-02	< 1.59E-01
2102N81A0	Kindernahrung	6.88E+01	< 4.04E-02	< 3.78E-02	< 2.81E-02	< 3.47E-02	< 1.63E-01
2103N81A0	Kindernahrung	8.78E+01	< 5.40E-02	< 4.64E-02	< 3.75E-02	3.14E-02	< 2.09E-01
2104N81A0	Kindernahrung	4.78E+01	< 3.70E-02	< 4.01E-02	< 3.06E-02	< 3.61E-02	< 1.58E-01
2105N81A0	Kindernahrung	7.09E+01	< 3.21E-02	< 2.61E-02	< 2.23E-02	< 2.54E-02	< 1.26E-01
2106N81A0	Kindernahrung	8.89E+01	< 3.49E-02	< 5.74E-02	< 2.47E-02	4.18E-02	< 1.55E-01

2021 Radioaktivität in der Gesamtnahrung in Bq/(d*p) und in der Säuglingsnahrung in Bq/kg(FM)

HPN	Probe	K 40	Co 60	Ru 103	Cs 134	Cs 137	Ce 144
2107N81A0	Kindernahrung	8.49E+01	< 3.05E-02	< 3.39E-02	< 2.39E-02	4.53E-02	< 1.29E-01
2108N81A0	Kindernahrung	4.93E+01	< 4.05E-02	< 4.12E-02	< 2.98E-02	< 3.58E-02	< 1.68E-01
2109N81A0	Kindernahrung	8.93E+01	< 3.62E-02	< 3.96E-02	< 2.85E-02	1.89E-02	< 1.63E-01
2110N81A0	Kindernahrung	8.36E+01	< 2.70E-02	< 2.95E-02	< 2.05E-02	< 4.55E-02	< 1.23E-01
2111N81A0	Kindernahrung	6.38E+01	< 4.24E-02	< 4.36E-02	< 3.29E-02	< 5.95E-02	< 2.01E-01
2112N81A0	Kindernahrung	8.51E+01	< 2.74E-02	< 3.49E-02	< 2.07E-02	4.93E-02	< 1.15E-01

Maximalwerte:	9.73E+01	5.69E-02	9.15E-02	4.12E-02	6.22E-01	2.50E-01
Minimalwerte:	4.78E+01	2.38E-02	2.41E-02	1.83E-02	1.55E-02	1.10E-01
Mittelwerte:	7.46E+01	3.84E-02	4.28E-02	2.93E-02	7.71E-02	1.68E-01

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Sr-90 Messungen: 2103N84A, 2104N81A, 2106N84A, 2109N81A,2109N85A,2112N85A

2021 Radioaktivität im Trinkwasser (Bq/l)

HPN	Probe	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	H 3	U 234	U 235	U 238	Pu 238	Pu 23940
Bremen														
2102N71A0	Trinkwasser Reinwasser	1.11E+00	< 4.44E-02	< 8.10E-02	< 1.10E+00	< 4.15E-02	< 4.43E-02	< 2.75E-01	< 3.55E+00	3.35E-03	< 5.00E-04	2.99E-03	< 3.61E-04	< 3.21E-04
2105N71A0	Trinkwasser Rohwasser	1.03E-01	< 5.76E-03	< 6.56E-03	< 1.10E-02	< 6.01E-03	< 6.57E-03	< 3.80E-02	< 3.66E+00	9.57E-03	4.49E-04	9.01E-03	< 4.28E-04	< 4.14E-04
2108N71A0	Trinkwasser Reinwasser	1.29E-01	< 3.14E-03	< 3.89E-03	< 8.83E-03	< 3.01E-03	< 3.44E-03	< 2.66E-02	< 3.60E+00	4.29E-03	2.34E-04	3.43E-03		
2111N71A0	Trinkwasser Reinwasser	1.14E-01	< 5.88E-03	< 7.90E-03	< 2.02E-02	< 5.85E-03	< 6.72E-03	< 4.99E-02						
Bremerhaven														
2102N72B0	Trinkwasser Reinwasser	< 8.11E-02	< 3.11E-03	< 5.72E-03	< 8.67E-02	< 3.14E-03	< 3.34E-03	< 2.72E-02	< 4.57E+00	4.55E-04	< 5.81E-04	3.23E-04	< 3.98E-04	< 3.84E-04
2105N72B0	Trinkwasser Rohwasser	< 7.58E-02	< 2.91E-03	< 3.50E-03	< 1.07E-02	< 2.81E-03	< 3.11E-03	< 2.45E-02	< 3.67E+00	4.54E-04	< 4.57E-04	3.88E-04	< 5.21E-04	< 4.40E-04
2108N72B0	Trinkwasser Reinwasser	< 1.17E-01	< 6.28E-03	< 1.45E-02	< 2.29E-01	< 6.70E-03	< 7.17E-03	< 5.85E-02	< 3.62E+00	1.24E-03	< 8.72E-04	< 1.68E-03		
2111N72B0	Trinkwasser Reinwasser	8.45E-02	< 6.95E-03	< 9.37E-03	< 3.72E-02	< 6.31E-03	< 7.33E-03	< 4.42E-02						
Maximalwerte:		1.11E+00	4.44E-02	8.10E-02	1.10E+00	4.15E-02	4.43E-02	2.75E-01	4.57E+00	9.57E-03	8.72E-04	9.01E-03	5.21E-04	4.40E-04
Minimalwerte:		7.58E-02	2.91E-03	3.50E-03	8.83E-03	2.81E-03	3.11E-03	2.45E-02	3.55E+00	4.54E-04	2.34E-04	3.23E-04	3.61E-04	3.21E-04
Mittelwerte:		2.27E-01	9.80E-03	1.66E-02	1.88E-01	9.42E-03	1.02E-02	6.80E-02	3.78E+00	3.23E-03	5.16E-04	2.97E-03	4.27E-04	3.90E-04

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Sr-90 Messungen: 2102N71A, 2102N72B, 2105N71A, 2105N72B, 2108N71A, 2108N72B
Fehlende Pu-238/Pu-23940 Messungen: 2108N71A, 2108N72B

2021 Radioaktivität in Indikatorpflanzen in Bq/kg(TM)

HPN	Probe	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	Be 7	Pb 210
Bremen										
2105I11A0	Gras	1.45E+02	< 3.52E-01	< 3.81E-01	< 4.92E-01	< 3.55E-01	1.76E+00	< 2.57E+00	1.86E+02	
2111I11A0	Blätter. Buche	4.38E+02	< 4.27E-01	< 4.55E-01	< 5.37E-01	< 4.26E-01	8.62E-01	< 4.34E+00	3.20E+02	1.31E+02
2111I13A0	Nadeln. Fichte	1.91E+02	< 2.53E-01	< 2.21E-01	< 2.31E-01	< 2.18E-01	3.93E+00	< 2.28E+00	3.71E+01	2.62E+02
Bremerhaven										
2111I12B0	Blätter. Buche	1.21E+02	< 4.96E-01	< 5.02E-01	< 6.59E-01	< 4.94E-01	5.56E+00	< 3.86E+00	4.11E+02	

Maximalwerte:	4.38E+02	4.96E-01	5.02E-01	6.59E-01	4.94E-01	5.56E+00	4.34E+00	4.11E+02	2.62E+02
Minimalwerte:	1.21E+02	2.53E-01	2.21E-01	2.31E-01	2.18E-01	8.62E-01	2.28E+00	3.71E+01	1.31E+02
Mittelwerte:	2.24E+02	3.82E-01	3.90E-01	4.80E-01	3.73E-01	3.03E+00	3.26E+00	2.39E+02	1.97E+02

Achtung: Berechnete Minimal-. Maximal- und Mittelwerte stellen nur Arbeitshilfen dar. da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Probe: 2105I12B

2021 Radioaktivität in Futtermitteln in Bq/kg(FM)

HPN	Probe	Imp	Staat	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144
Bremen										
2101F31A0	Hafer	X	Lettland	1.27E+02	< 1.01E-01	< 1.02E-01	< 1.96E-01	< 8.36E-02	1.30E-01	< 7.21E-01
2101F61A0	Sonnenblumenkernschrot	X	Ungarn	4.67E+02	< 1.48E-01	< 1.10E-01	< 1.47E-01	< 1.03E-01	< 1.23E-01	< 6.22E-01
2101F62A0	Roggen	X	Polen	1.36E+02	< 7.80E-02	< 7.27E-02	< 1.30E-01	< 6.51E-02	6.96E-02	< 5.70E-01
2103F61A0	Sonnenblumenkernschrot	X	Russische Föderation	4.30E+02	< 1.09E-01	< 8.54E-02	< 9.37E-02	< 8.83E-02	1.92E-01	< 6.83E-01
2105F11A0	Weidegras			1.93E+02	< 8.23E-02	< 7.82E-02	< 1.01E-01	< 7.30E-02	< 8.24E-02	< 4.79E-01
2105F31A0	Roggen	X	Finnland	1.35E+02	< 8.15E-02	< 6.78E-02	< 1.14E-01	< 5.87E-02	< 6.91E-02	< 5.03E-01
2105F32A0	Roggen	X	Polen	1.39E+02	< 7.70E-02	< 6.63E-02	< 8.31E-02	< 6.35E-02	5.77E-02	< 4.18E-01
2105F61A0	Palmkernschrot	X	Indonesien	2.04E+02	< 1.11E-01	< 1.06E-01	< 3.55E-01	< 8.15E-02	1.58E-01	< 6.95E-01
2105F62A0	Rapsschrot	X	Tschechische Republik	3.49E+02	< 1.25E-01	< 1.22E-01	< 3.36E-01	< 9.65E-02	1.94E-01	< 6.26E-01
2105F63A0	Sonnenblumenkernschrot	X	Ukraine	3.62E+02	< 1.10E-01	< 8.76E-02	< 1.41E-01	< 8.40E-02	2.50E-01	< 6.82E-01
2108F31A0	Maiskörner	X	Tschechische Republik	1.02E+02	< 5.92E-02	< 6.75E-02	< 2.13E-01	< 5.06E-02	< 6.42E-02	< 4.88E-01
2109F31A0	Weizen	X	Lettland	1.09E+02	< 6.49E-02	< 5.68E-02	< 6.62E-02	< 5.84E-02	< 6.96E-02	< 4.99E-01
2109F61A0	Rapsschrot	X	Polen	4.44E+02	< 1.41E-01	< 1.02E-01	< 1.06E-01	< 9.92E-02	1.73E-01	< 7.48E-01
2109F62A0	Sojaschrot	X	Brasilien	6.86E+02	< 8.87E-02	< 8.95E-02	< 3.18E-01	< 6.49E-02	2.80E-01	< 5.09E-01
2109F63A0	Palmkernschrot	X	Indonesien	1.91E+02	< 5.89E-02	< 6.54E-02	< 2.45E-01	< 4.76E-02	2.02E-01	< 3.06E-01
2109F64A0	Rapsschrot	X	Vereinigtes Königreich	3.18E+02	< 1.17E-01	< 9.22E-02	< 9.46E-02	< 8.93E-02	< 1.09E-01	< 5.72E-01
2110F31A0	Maiskörner			8.25E+01	< 7.58E-02	< 8.30E-02	< 2.59E-01	< 5.95E-02	< 7.26E-02	< 5.27E-01
2110F32A0	Maiskörner			9.07E+01	< 3.40E-02	< 3.19E-02	< 4.84E-02	< 2.82E-02	2.02E-02	< 2.29E-01
2111F31A0	Roggen			1.36E+02	< 8.37E-02	< 7.44E-02	< 9.21E-02	< 7.06E-02	7.12E-02	< 4.83E-01
2111F41A0	Gehaltsfutterrübe			8.49E+01	< 4.87E-02	< 4.49E-02	< 6.09E-02	< 4.07E-02	5.23E-02	< 2.87E-01
2112F31A0	Weizen	X	Lettland	1.26E+02	< 6.83E-02	< 5.69E-02	< 7.32E-02	< 5.58E-02	< 6.70E-02	< 4.83E-01
2112F61A0	Sojaschrot	X	Indien	6.13E+02	< 1.52E-01	< 1.20E-01	< 1.34E-01	< 1.19E-01	1.09E-01	< 7.55E-01
Bremerhaven										
2105F12B0	Weidegras			1.85E+02	< 7.65E-02	< 7.29E-02	< 9.91E-02	< 6.49E-02	< 7.62E-02	< 6.17E-01
Maximalwerte:				6.86E+02	1.52E-01	1.22E-01	3.55E-01	1.19E-01	2.80E-01	7.55E-01
Minimalwerte:				8.25E+01	3.40E-02	3.19E-02	4.84E-02	2.82E-02	2.02E-02	2.29E-01
Mittelwerte:				2.50E+02	9.14E-02	8.09E-02	1.54E-01	7.18E-02	1.18E-01	5.41E-01

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!
Fehlende Sr-90 Messungen: 2105F12B

2021 Radioaktivität in Böden Bq/kg(TM)

HPN	Probe	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	Be 7	Pb 210
Bremen										
2105B31A0	Ackerböden	3.63E+02	< 8.98E-02	< 8.58E-02	< 9.92E-02	< 7.92E-02	8.01E+00	< 8.28E-01	2.10E+00	7.12E+01
2105B32A0	Ackerböden	6.51E+02	< 1.10E-01	< 1.04E-01	< 1.26E-01	< 9.62E-02	7.58E+00	< 1.03E+00	1.99E+00	
2105B33A0	Ackerböden	2.63E+02	< 1.12E-01	< 1.14E-01	< 1.37E-01	< 1.17E-01	7.09E+00	< 1.13E+00	4.06E+00	2.63E+01
2108B31A0	Weideböden	5.14E+02	< 1.19E-01	< 1.21E-01	< 1.52E-01	< 1.09E-01	1.22E+01	< 1.14E+00	8.42E+00	2.26E+02
2108B32A0	Weideböden	4.28E+02	< 1.32E-01	< 1.32E-01	< 1.59E-01	< 1.20E-01	1.32E+01	< 1.27E+00	4.93E+00	3.16E+01
Maximalwerte:		6.51E+02	1.32E-01	1.32E-01	1.59E-01	1.20E-01	1.32E+01	1.27E+00	8.42E+00	2.26E+02
Minimalwerte:		2.63E+02	8.98E-02	8.58E-02	9.92E-02	7.92E-02	7.09E+00	8.28E-01	1.99E+00	2.63E+01
Mittelwerte:		4.44E+02	1.13E-01	1.11E-01	1.35E-01	1.04E-01	9.62E+00	1.08E+00	4.30E+00	8.88E+01

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Sr-90 Messungen: 2105B31A, 2105B32A

2021 Radioaktivität im Grundwasser (Bq/l)

HPN	Probe	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	H 3	U 234	U 235	U 238	Pu 238	Pu 23940
Bremen														
2105G41A0	Grundwasser	8.82E-02	< 4.04E-03	< 4.70E-03	< 9.00E-03	< 3.97E-03	< 4.32E-03	< 3.47E-02	< 3.65E+00	2.33E-04	< 5.96E-04	2.68E-04	< 5.55E-04	< 2.37E-04
2111G41A0	Grundwasser	7.25E-02	< 4.24E-03	< 5.77E-03	< 1.79E-02	< 4.05E-03	< 4.36E-03	< 3.55E-02	< 3.57E+00	3.66E-04	< 8.59E-04	6.08E-04	< 8.54E-04	< 6.08E-04
Bremerhaven														
2105G42B0	Grundwasser	4.05E-01	< 3.40E-03	< 4.31E-03	< 1.21E-02	< 3.18E-03	< 3.57E-03	< 2.04E-02	< 3.67E+00	4.50E-04	< 1.14E-03	< 8.65E-04	< 6.00E-04	< 4.81E-04
2111G42B0	Grundwasser	3.12E-01	< 5.38E-03	< 6.64E-03	< 2.33E-02	< 5.31E-03	< 5.82E-03	< 4.59E-02	< 3.57E+00	< 6.99E-04	< 3.61E-04	2.56E-04	< 1.24E-03	< 7.51E-04
Maximalwerte:		4.05E-01	5.38E-03	6.64E-03	2.33E-02	5.31E-03	5.82E-03	4.59E-02	3.67E+00	6.99E-04	1.14E-03	8.65E-04	1.24E-03	7.51E-04
Minimalwerte:		7.25E-02	3.40E-03	4.31E-03	9.00E-03	3.18E-03	3.57E-03	2.04E-02	3.57E+00	2.33E-04	3.61E-04	2.56E-04	5.55E-04	2.37E-04
Mittelwerte:		2.19E-01	4.27E-03	5.36E-03	1.56E-02	4.13E-03	4.52E-03	3.41E-02	3.62E+00	4.37E-04	7.39E-04	4.99E-04	8.12E-04	5.19E-04

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Sr-90 Messungen: 2105G41A, 2105G42B, 2111G41A, 2105G42B

2021 Radioaktivität im Oberflächenwasser (Bq/l) und Sediment Bq/kg(TM)

HPN	Probe	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	Be 7	Pb 210	H 3	U 234	U 235	U 238	Pu 238	Pu 23940
Bremen																
2103G11A0	Oberflächenwasser	2.95E-01	< 3.24E-03	< 1.52E-02	< 3.67E+00	< 3.38E-03	< 3.50E-03	< 3.26E-02	< 8.78E-02	< 1.05E-01	< 3.75E+00	1.78E-03	< 2.95E-04	4.45E-04	< 5.88E-04	< 2.35E-04
2106G11A0	Oberflächenwasser	1.70E-01	< 7.04E-03	< 2.65E-02	< 3.66E+00	< 7.06E-03	< 7.41E-03	< 4.86E-02	< 1.63E-01		< 3.69E+00	1.39E-03	< 3.38E-04	< 8.15E-04	< 1.08E-03	< 6.06E-04
2109G11A0	Oberflächenwasser	2.33E-01	< 7.77E-03	< 1.87E-02	< 2.24E-01	< 8.08E-03	< 8.81E-03	< 5.36E-02	< 1.29E-01		< 3.64E+00					
2112G11A0	Oberflächenwasser	2.20E-01	< 4.24E-03	< 1.09E-02	< 3.23E-01	< 4.30E-03	< 4.75E-03	< 4.00E-02	< 7.76E-02	< 1.52E-01	< 3.59E+00					
2103G13A0	Sediment	3.48E+02	< 3.97E-01	< 4.61E-01	< 6.35E-01	< 3.99E-01	1.98E+01	< 4.12E+00	2.83E+02	3.93E+02						
2106G13A0	Sediment	3.75E+02	< 9.95E-01	< 1.13E+00	< 1.72E+00	< 1.01E+00	1.71E+01	< 9.74E+00	3.93E+02	2.27E+02						
2109G13A0	Sediment	3.67E+02	< 5.10E-01	< 5.37E-01	< 6.43E-01	< 4.79E-01	1.38E+01	< 4.70E+00	9.71E+01	1.54E+02						
2112G13A0	Sediment	2.12E+02	< 2.59E-01	< 2.92E-01	< 4.01E-01	< 2.59E-01	1.54E+01	< 2.90E+00	4.67E+01	1.79E+02						
Bremerhaven																
2109G12B0	Oberflächenwasser	1.35E-01	< 2.95E-03	< 7.52E-03	< 6.95E-02	< 2.77E-03	< 3.32E-03	< 2.79E-02	< 5.41E-02	< 9.74E-02	< 3.65E+00					
2112G12B0	Oberflächenwasser	1.68E-01	< 4.98E-03	< 1.39E-02	< 4.59E-01	< 4.64E-03	< 5.40E-03	< 3.56E-02	< 9.22E-02		< 3.59E+00					
2109G14B0	Sediment	4.89E+02	< 3.39E-01	< 3.48E-01	< 5.65E-01	< 3.19E-01	6.93E+00	< 2.83E+00	1.82E+02							
2112G14B0	Sediment	6.44E+02	< 8.28E-01	< 9.11E-01	< 1.08E+00	< 8.02E-01	9.68E+00	< 8.01E+00	3.59E+02	2.46E+02						

Maximalwerte:	6.44E+02	9.95E-01	1.13E+00	3.67E+00	1.01E+00	1.98E+01	9.74E+00	3.93E+02	3.93E+02	3.75E+00	1.78E-03	3.38E-04	8.15E-04	1.08E-03	6.06E-04
Minimalwerte:	1.35E-01	2.95E-03	7.52E-03	6.95E-02	2.77E-03	3.32E-03	2.79E-02	5.41E-02	9.74E-02	3.59E+00	1.39E-03	2.95E-04	4.45E-04	5.88E-04	2.35E-04
Mittelwerte:	2.03E+02	2.80E-01	3.14E-01	1.12E+00	2.75E-01	6.90E+00	2.71E+00	1.13E+02	1.50E+02	3.65E+00	1.59E-03	3.17E-04	6.30E-04	8.34E-04	4.21E-04

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Probe: 2103G11B, 2103G14B, 2106G11B, 2106G14B
Fehlende Sr-90 Messungen: 2103G11A, 2106G11A

2021 Radioaktivität in Reststoffen aus der Müllverbrennung und im Kompost in Bq/kg(TM) bzw. Bq/l

HPN	Umweltbereich	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	H 3
Bremen									
2104A21A0	Feste Rückstände aus Rauchgaswäsche	1.28E+02	< 1.06E-01	< 9.70E-02	3.33E-01	< 9.38E-02	1.94E+00	< 8.30E-01	
2104A22A0	Kesselasche. Schlacke	3.44E+02	< 1.10E-01	< 1.01E-01	< 1.21E-01	< 9.65E-02	3.17E+00	< 7.42E-01	
2104A23A0	Feste Rückstände aus Rauchgaswäsche	1.59E+03	< 3.07E-01	< 2.61E-01	< 3.37E-01	< 2.30E-01	2.88E+01	< 1.96E+00	
2104A24A0	Kesselasche. Schlacke	2.71E+02	< 1.06E-01	< 1.06E-01	< 1.37E-01	< 1.00E-01	8.99E-01	< 1.10E+00	
2110A21A0	Feste Rückstände aus Rauchgaswäsche	2.91E+02	< 1.09E-01	< 9.52E-02	6.03E+00	< 8.88E-02	4.15E+00	< 7.73E-01	
2110A22A0	Kesselasche. Schlacke	2.14E+02	< 9.80E-02	< 9.41E-02	< 1.10E-01	< 8.77E-02	9.13E-01	< 9.22E-01	
2110A23A0	Feste Rückstände aus Rauchgaswäsche	1.65E+03	< 2.97E-01	< 2.39E-01	< 3.10E-01	< 2.21E-01	2.44E+01	< 2.03E+00	
2110A24A0	Kesselasche. Schlacke	2.31E+02	< 1.17E-01	< 1.15E-01	< 1.39E-01	< 1.10E-01	5.88E-01	< 1.05E+00	
2110A41A0	Kompost	4.67E+02	< 9.33E-02	< 8.59E-02	< 1.17E-01	< 7.89E-02	7.04E+00	< 7.48E-01	
Bremerhaven									
2104A25B0	Kesselasche. Schlacke	2.01E+02	< 7.87E-02	< 8.05E-02	< 9.77E-02	< 8.22E-02	1.18E+00	< 8.53E-01	
2104A26B0	Feste Rückstände aus Rauchgaswäsche	4.82E+01	< 9.49E-02	< 9.83E-02	3.64E-01	< 9.65E-02	7.81E-01	< 1.00E+00	
2104A27B0	Filterstaub. Filterasche	1.55E+03	< 2.09E-01	< 1.68E-01	< 1.76E-01	< 1.57E-01	3.30E+01	< 1.10E+00	
2104A28B0	Flüssige Rückstände aus Rauchgaswäsche	1.21E+01	< 4.66E-02	< 4.41E-02	2.87E-01	< 4.06E-02	1.02E-01	< 2.83E-01	
2110A25B0	Kesselasche. Schlacke	3.07E+02	< 1.44E-01	< 1.34E-01	< 1.59E-01	< 1.31E-01	1.44E+00	< 1.34E+00	
2110A26B0	Feste Rückstände aus Rauchgaswäsche	3.25E+01	< 6.40E-02	< 6.94E-02	1.96E-01	< 6.60E-02	3.41E-01	< 7.31E-01	
2110A27B0	Filterstaub. Filterasche	1.41E+03	< 2.15E-01	< 1.76E-01	< 2.01E-01	< 1.66E-01	2.40E+01	< 1.18E+00	
2110A28B0	Flüssige Rückstände aus Rauchgaswäsche	7.81E+00	< 4.64E-02	< 4.65E-02	1.29E+00	< 4.37E-02	< 5.55E-02	< 4.02E-01	
2104A31B0	Sicker- und Grundwasser	1.34E+01	< 3.83E-02	< 3.81E-02	< 5.03E-02	< 3.67E-02	< 4.64E-02	< 3.53E-01	6.63E+00
2110A31B0	Sicker- und Grundwasser	1.30E+01	< 4.31E-02	< 4.21E-02	< 5.50E-02	< 3.78E-02	< 5.27E-02	< 3.78E-01	7.91E+00

Maximalwerte:	1.65E+03	3.07E-01	2.61E-01	6.03E+00	2.30E-01	3.30E+01	2.03E+00	7.91E+00
Minimalwerte:	7.81E+00	3.83E-02	3.81E-02	5.03E-02	3.67E-02	4.64E-02	2.83E-01	6.63E+00
Mittelwerte:	4.62E+02	1.22E-01	1.10E-01	5.53E-01	1.03E-01	6.99E+00	9.36E-01	7.27E+00

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Probe: 2104A41A

2021 Radioaktivität in KA-Abwasser in Bq/l und Klärschlamm in Bq/kg(TM)

HPN	Probe	K 40	Co 60	Ru 103	I 131	Cs 134	Cs 137	Ce 144	Be 7	Pb 210	U 234	U 235	U 238	Pu 238	Pu 23940
Bremen															
2102A11A0	Abwasser	9.17E-01	< 5.28E-02	< 5.22E-02	1.26E-01	< 4.92E-02	< 5.77E-02	< 3.22E-01	< 4.40E-01		5.65E-04	< 1.81E-03	3.53E-04	< 1.76E-03	< 7.10E-04
2105A11A0	Abwasser	8.65E-01	< 4.28E-02	< 4.14E-02	4.70E-02	< 3.98E-02	< 4.50E-02	< 3.02E-01	< 3.76E-01						
2108A11A0	Abwasser	6.13E-01	< 3.70E-02	< 4.21E-02	< 5.82E-02	< 3.90E-02	< 4.17E-02	< 3.76E-01	< 3.73E-01	< 2.67E+00					
2111A11A0	Abwasser	7.44E-01	< 3.80E-02	< 3.89E-02	< 5.11E-02	< 3.66E-02	< 4.33E-02	< 3.70E-01	< 3.51E-01	< 1.87E+00					
2102A13A0	Klärschlamm	3.90E+02	< 2.81E+00	< 2.57E+00	6.01E+01	< 2.57E+00	< 2.93E+00	< 2.87E+01	1.13E+02	< 2.11E+02	7.36E+00	< 7.34E-01	6.42E+00		
2105A13A0	Klärschlamm	2.14E+02	< 1.28E+00	< 1.33E+00	2.10E+01	< 1.25E+00	< 1.58E+00	< 1.30E+01							
2108A13A0	Klärschlamm	3.19E+02	< 2.09E+00	< 2.10E+00	3.26E+01	< 1.81E+00	< 2.33E+00	< 1.69E+01	3.70E+02		7.96E+00	< 6.53E-01	5.79E+00	< 1.71E-01	< 1.14E-01
2111A13A0	Klärschlamm	3.23E+02	< 2.39E+00	< 2.54E+00	4.76E+01	< 2.44E+00	< 2.76E+00	< 2.23E+01	2.17E+02						
Bremerhaven															
2102A12B0	Abwasser	6.85E-01	< 4.20E-02	< 4.71E-02	< 8.09E-02	< 4.22E-02	< 4.85E-02	< 3.83E-01	< 4.32E-01	< 2.23E+00	2.28E-03	< 3.21E-03	2.27E-03	< 1.55E-03	< 1.29E-03
2105A12B0	Abwasser	8.90E-01	< 2.02E-02	< 2.27E-02	6.28E-02	< 1.88E-02	< 2.15E-02	< 1.83E-01	< 1.96E-01	< 1.05E+00					
2108A12B0	Abwasser	7.60E-01	< 3.88E-02	< 4.22E-02	6.15E-02	< 3.65E-02	< 4.19E-02	< 3.55E-01	< 3.69E-01	< 2.21E+00					
2111A12B0	Abwasser	< 9.78E-01	< 4.78E-02	< 4.67E-02	< 6.63E-02	< 4.31E-02	< 5.24E-02	< 3.95E-01	< 4.06E-01	< 2.28E+00					
2102A14B0	Klärschlamm	2.20E+02	< 1.14E+00	< 1.22E+00	7.33E+00	< 1.07E+00	< 1.34E+00	< 7.49E+00	4.92E+01					< 1.58E-01	< 9.02E-02
2105A14B0	Klärschlamm	4.22E+02	< 1.63E+00	< 1.86E+00	4.63E+01	< 1.61E+00	1.08E+00	< 1.48E+01	1.52E+02	< 9.29E+01					
2108A14B0	Klärschlamm	2.97E+02	< 1.78E+00	< 1.75E+00	1.31E+01	< 1.61E+00	< 2.03E+00	< 1.16E+01	1.68E+02		8.95E+00	< 1.10E+00	9.10E+00	< 1.96E-01	< 1.35E-01
2111A14B0	Klärschlamm	2.84E+02	< 1.95E+00	< 1.83E+00	4.70E+01	< 1.70E+00	< 3.83E+00	< 1.60E+01	1.12E+02	< 1.05E+02					

Maximalwerte:	4.22E+02	2.81E+00	2.57E+00	6.01E+01	2.57E+00	3.83E+00	2.87E+01	2.17E+02	2.11E+02	8.95E+00	1.10E+00	9.10E+00	1.96E-01	1.35E-01
Minimalwerte:	6.13E-01	2.02E-02	2.27E-02	4.70E-02	1.88E-02	2.15E-02	1.83E-01	1.96E-01	1.05E+00	5.65E-04	1.81E-03	3.53E-04	1.55E-03	7.10E-04
Mittelwerte:	1.55E+02	9.62E-01	9.71E-01	1.72E+01	8.98E-01	1.14E+00	8.34E+00	7.89E+01	4.68E+01	4.85E+00	4.98E-01	4.26E+00	1.06E-01	6.82E-02

Achtung: Berechnete Minimal-, Maximal- und Mittelwerte stellen nur Arbeitshilfen dar, da sie die Bedeutung von Werten unter der Nachweisgrenze nicht berücksichtigen!

Fehlende Sr-90 Messungen: 2102A11A, 2102A12B, 2102A13A, 2102A14B, 2108A11A, 2108A12B, 2108A13A, 2108A14B
Fehlende U-234/U-235/U-238 Messungen: 2108A11A, 2108A12B
Fehlende Pu-238/Pu-23940 Messungen: 2108A11A, 2108A12B