



The IAEA-TEL-2021-03 world wide open proficiency test on the determination of anthropogenic and natural radionuclides in water, Japanese bamboo and simulated swipe samples

**Laboratory's Final Report
Laboratory Code: 53 (CuNo: 13949)
Total Pages (with cover): 10**



Data Summary Report

for the World Wide Proficiency Test IAEA-TEL-2021-03

Individual Data Summary Report for Laboratory Nr. 53

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Proficiency Test IAEA-TEL-2021-03 Data Summary Report

Created on 2021-11-01

Sample 01

Sample Code	Analyte	Measured by	Reported Value	Reported Uncertainty
1	Am-241gamma	gamma	59.7	2.1
1	Co-57	gamma		
1	Co-60	gamma	77.1	3.5
1	Cs-134	gamma	113.9	5.1
1	Cs-137	gamma	68.3	4.2
1	Eu-152	gamma		

Values and Uncertainties for Sample 01 (water) in Bq/kg.

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Sample 02

Sample Code	Analyte	Measured by	Reported Value	Reported Uncertainty
2	Am-241gamma	gamma	98.6	4.0
2	Ba-133	gamma	132.6	5.4
2	Cs-137	gamma	145.7	7.7
2	Eu-152	gamma		
2	Sn-113	gamma		

Values and Uncertainties for Sample 02 (water) in Bq/kg.

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Sample 04

Sample Code	Analyte	Measured by	Reported Value	Reported Uncertainty
4	Cs-134	gamma	89.0	5.0
4	Cs-137	gamma	2030	100
4	K-40	gamma		

Values and Uncertainties for Sample 04 (bamboo) in Bq/kg d.w. .

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Sample 05

Sample Code	Analyte	Measured by	Reported Value	Reported Uncertainty
5	Am-241gamma	gamma	4.45	0.25
5	Cs-134	gamma	19.9	1.2
5	Cs-137	gamma	25.6	1.5

Values and Uncertainties for Sample 05 (water) in Bq/kg.

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Sample 07

Sample Code	Analyte	Measured by	Reported Value	Reported Uncertainty
7	gross_alpha	alpha/beta	6.5	1.6
7	gross_beta	alpha/beta	10.4	1.9
7	Am-241gamma	gamma	0.0361	0.0070
7	Cs-137	gamma	11.7	1.4

Values and Uncertainties for Sample 07 (simulated swipe) in Bq/sample.

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IAEA-TEL-2021-04 Summary Tables

Labcode:53

Record	Labcode	Sample	Method	Isotope	Activity Value	Activity Uncertainty Coverage Factor k=1	Detection Limit	Unit
Rec. 0	53	1	alpha/beta	gross_alpha				[Bq/kg]
Rec. 1	53	1	alpha/beta	gross_beta				[Bq/kg]
Rec. 2	53	2	alpha/beta	gross_alpha				[Bq/kg]
Rec. 3	53	2	alpha/beta	gross_beta				[Bq/kg]
Rec. 4	53	2	alpha/beta	H-3				[Bq/kg]
Rec. 5	53	2	alpha/beta	Sr-90				[Bq/kg]
Rec. 6	53	5	alpha/beta	Cm-244				[Bq/kg]
Rec. 7	53	5	alpha/beta	gross_alpha				[Bq/kg]
Rec. 8	53	5	alpha/beta	gross_beta				[Bq/kg]
Rec. 9	53	5	alpha/beta	Pu-239				[Bq/kg]
Rec. 10	53	7	alpha/beta	gross_alpha	6.5	1.6	0.024	[Bq/filter]
Rec. 11	53	7	alpha/beta	gross_beta	10.4	1.9	0.23	[Bq/filter]
Rec. 12	53	7	alpha/beta	Pu-239				[Bq/sample]
Rec. 13	53	1	gamma	Am-241gamma	59.7	2.1	1.2	[Bq/kg]

Rec. 14	53	1	gamma	Co-57			1.8	[Bq/kg]
Rec. 15	53	1	gamma	Co-60	77.1	3.5	3.5	[Bq/kg]
Rec. 16	53	1	gamma	Cs-134	113.9	5.1	2.6	[Bq/kg]
Rec. 17	53	1	gamma	Cs-137	68.3	4.2	3.8	[Bq/kg]
Rec. 18	53	1	gamma	Eu-152			2.8	[Bq/kg]
Rec. 19	53	2	gamma	Am-241gamma	98.6	4.0	0.98	[Bq/kg]
Rec. 20	53	2	gamma	Ba-133	132.6	5.4	0.90	[Bq/kg]
Rec. 21	53	2	gamma	Cs-137	145.7	7.7	3.4	[Bq/kg]
Rec. 22	53	2	gamma	Eu-152			3.0	[Bq/kg]
Rec. 23	53	2	gamma	Sn-113			10	[Bq/kg]
Rec. 24	53	4	gamma	Cs-134	89.0	5.0	5.2	[Bq/kg]
Rec. 25	53	4	gamma	Cs-137	2030	100	8.2	[Bq/kg]
Rec. 26	53	4	gamma	K-40			200	[Bq/kg]
Rec. 27	53	5	gamma	Am-241gamma	4.45	0.25	0.69	[Bq/kg]
Rec. 28	53	5	gamma	Cs-134	19.9	1.2	1.9	[Bq/kg]
Rec. 29	53	5	gamma	Cs-137	25.6	1.5	2.9	[Bq/kg]
Rec. 30	53	7	gamma	Am-241gamma	0.0361	0.0070	0.022	[Bq/filter]
Rec. 31	53	7	gamma	Cs-137	11.7	1.4	0.12	[Bq/sample]

Data submitted: [download the final data report](#)

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