

TRIP Intercomparison Results: May 25, 2010

First Semester QC Sample Results Reference time: 12:00 GMT, March 1, 2010

¹²⁵ I low	Sample activity (dpm)	Uncertainty (dpm)
Certified value*	6.24E+04	5.4E+03

I-125 Results

¹²⁵ I low	Lowest value (dpm) –25%	Highest value (dpm) +50%
ANSI 13.30 acceptance criteria	4.68E+04	9.36E+04

Facility Code	¹²⁵ I (dpm)	Uncertainty (dpm)	Bias	Meets ANSI acceptance criteria
5	5.74E+04	2.39E+03	–0.08	Yes
15	6.28E+04	1.47E+03	0.01	Yes
25	6.05E+04	1.18E+03	–0.03	Yes
35	1.36E+05	2.81E+04	1.19	No
45	7.99E+04	5.25E+02	0.28	Yes
55	7.44E+04	4.27E+03	0.19	Yes
65	5.81E+04	1.64E+04	–0.07	Yes
75	1.05E+05	1.37E+03	0.69	No
85	6.27E+04	7.51E+03	0.01	Yes
86	NR	NR	NR	NR
87	6.53E+04	7.66E+02	0.05	Yes
95	2.61E+04	2.78E+03	–0.58	No

Bias = (measured value - certified value) / certified value NR = Not reported *This value is below the current ANSI MTL of 81 nCi.

¹²⁵ I high	Sample activity (dpm)	Uncertainty (dpm)
Certified value	7.58E+05	6.60E+04

I-131 Results

¹²⁵ I high	Lowest value (dpm) –25%	Highest value (dpm) +50%
ANSI 13.30 acceptance criteria	5.69E+05	1.14E+06

Facility Code	¹²⁵ I (dpm)	Uncertainty (dpm)	Bias	Meets ANSI acceptance criteria
5	6.68E+05	5.87E+03	–0.12	Yes
15	7.79E+05	4.90E+03	0.03	Yes
25	7.33E+05	1.23E+04	–0.03	Yes
35	1.51E+06	1.80E+05	0.99	No
45	6.60E+05	1.51E+03	–0.13	Yes

55	8.39E+05	1.47E+04	0.11	Yes
65	6.68E+05	1.41E+05	−0.10	Yes
75	1.25E+06	4.74E+03	0.65	No
85	7.34E+05	2.57E+03	−0.03	Yes
86	NR	NR	NR	NR
87	8.48E+05	2.72E+03	0.12	Yes
95	3.16E+05	2.80E+04	−0.58	No
Bias = (measured value - certified value) / certified value NR = Not reported				

¹³¹ I	Sample activity (dpm)	Uncertainty (dpm)
Certified value	9.43E+05	8.22E+04

¹³¹ I	Lowest value (dpm) −25%	Highest value (dpm) +50%
ANSI 13.30 acceptance criteria	7.07E+05	1.41E+06

Facility Code	¹³¹ I (dpm)	Uncertainty (dpm)	Bias	Meets ANSI acceptance criteria
5	8.12E+05	1.71E+04	−0.14	Yes
15	7.70E+05	1.09E+04	−0.18	Yes
25	9.58E+05	1.77E+04	0.02	Yes
35	1.37E+06	2.81E+04	0.46	Yes
45	8.35E+05	1.70E+03	−5.50	Yes
55	NR	NR	NR	NR
65	8.91E+05	2.94E+05	−0.06	Yes
75	1.08E+06	4.41E+03	0.15	Yes
85	NR	NR	NR	NR
86	NR	NR	NR	NR
87	NR	NR	NR	NR
95	1.92E+06	1.75E+05	1.03	No
Bias = (measured value - certified value) / certified value NR = Not reported				