

TRIP Intercomparison Results: May 11, 2012

First Semester QC Sample Results Reference time: 12:00 EST, March 16, 2012

¹²⁵ I	Sample activity in Bq	Uncertainty in Bq
Certified value*	1.60E+04	5.20E+02

I-125 Results

¹²⁵ I	Lowest value – 25%	Highest value +50%	Root Mean Squared Error of relative bias and relative precision
ANSI 13.30 acceptance criteria	1.20E+04	2.40E+04	<0.25

Facility code	Facility average result in Bq	Facility average uncertainty in Bq	ANSI 13.30 1996 calculated bias	ANSI N13.30 2011 RMSE*	Meets ANSI 13.30 1996 acceptance criteria –25% to +50%	Meets ANSI 13.30 2011 acceptance criteria RMSE <0.25*
5	3.01E+04	1.47E+02	0.88	0.88	No	No
15	1.37E+04	9.92E+01	–0.14	N/A	Yes	N/A
25	1.52E+04	6.67E+03	–0.05	0.05	Yes	Yes
35	1.65E+04	6.59E+02	0.03	0.05	Yes	Yes
45	1.57E+04	1.49E+01	–0.02	0.05	Yes	Yes
55	1.78E+04	3.07E+02	0.11	0.14	Yes	Yes
65	3.23E+04	7.37E+03	1.02	1.02	No	No
75	2.69E+04	6.94E+02	0.68	0.67	No	No
85	1.68E+04	3.88E+02	0.05	0.05	Yes	Yes
87	1.68E+04	3.87E+02	0.05	0.05	Yes	Yes
99	1.68E+04	5.10E+02	0.05	0.05	Yes	Yes

*Five replicates required for RMSE NR = Not reported

¹³¹ I	Sample activity (Bq)	Uncertainty (Bq)
Certified value	2.19E+04	7.10E+02

I-131 Results

¹³¹ I	Lowest value (Bq) – 25%	Highest value (Bq) +50%	Root Mean Squared Error of relative bias and relative precision
ANSI 13.30 acceptance criteria	1.64E+04	3.29E+04	<0.25

Facility code	Facility average result in Bq	Facility average uncertainty in Bq	ANSI 13.30 1996 calculated bias	ANSI N13.30 2011 RMSE*	Meets ANSI 13.30 1996 acceptance criteria –25% to +50%	Meets ANSI 13.30 2011 acceptance criteria RMSE <0.25*
5	2.35E+04	2.98E+02	0.07	0.07	Yes	Yes

