

### Field Duplicate Z - Score Evaluation

Compare Z-Score to performance criteria of 1.96 or less

*In the event of a 0.0 uncertainty, use the square root of the result as the uncertainty*

Dup #	Type	Sample ID	Nuclide	Result	Uncert	Z-Score	Eval
1	Orig	SU01-01	H-3	-1.1	2.60	0.48	PASS
	Duplicate	SU01-01-DUP	H-3	-2	2.60		
2	Orig	SU01-06	H-3	-1.9	2.50	-1.07	PASS
	Duplicate	SU01-06-DUP	H-3	0.2	2.90		
3	Orig	SU01-12	H-3	0.1	2.80	0.72	PASS
	Duplicate	SU01-12-DUP	H-3	-1.3	2.60		
4	Orig	SU02-37	H-3	0.3	2.80	0.20	PASS
	Duplicate	SU02-37-DUP	H-3	-0.1	2.70		
5	Orig	SU02-38	H-3	-0.7	2.80	-0.35	PASS
	Duplicate	SU02-38-DUP	H-3	0	2.80		
6	Orig	SU02-46	H-3	-0.9	2.70	-2.05	FAIL
	Duplicate	SU02-46-DUP	H-3	3.1	2.70		
7	Orig	SU03-83	H-3	0.9	2.70	0.51	PASS
	Duplicate	SU03-83-DUP	H-3	-0.1	2.70		
8	Orig	SU03-85	H-3	0.2	2.70	-0.25	PASS
	Duplicate	SU03-85-DUP	H-3	0.7	2.80		
9	Orig	SU03-86	H-3	1.9	2.70	2.24	FAIL
	Duplicate	SU03-86-DUP	H-3	-2.3	2.50		
10	Orig	SU01-01	removable alpha	0	0.00	N/A	N/A
	Duplicate	SU01-01-DUP	removable alpha	0	0.00		
11	Orig	SU01-06	removable alpha	0	0.00	N/A	N/A
	Duplicate	SU01-06-DUP	removable alpha	0.8	0.89		
12	Orig	SU01-12	removable alpha	0	0.00	N/A	N/A
	Duplicate	SU01-12-DUP	removable alpha	0	0.00		
13	Orig	SU02-37-BOTTOM	removable alpha	1.7	1.30	N/A	N/A
	Duplicate	SU02-37-BOTTOM-DUP	removable alpha	0	0.00		
14	Orig	SU02-38-BOTTOM	removable alpha	0	0.00	N/A	N/A
	Duplicate	SU02-38-BOTTOM-DUP	removable alpha	0	0.00		
15	Orig	SU02-46-BOTTOM	removable alpha	0	0.00	N/A	N/A
	Duplicate	SU02-46-BOTTOM-DUP	removable alpha	0	0.00		
16	Orig	SU03-83	removable alpha	0	0.00	N/A	N/A
	Duplicate	SU03-83-DUP	removable alpha	0	0.00		
17	Orig	SU03-85	removable alpha	1.7	1.30	1.12	PASS
	Duplicate	SU03-85-DUP	removable alpha	0.8	0.89		
18	Orig	SU03-86	removable alpha	0.8	0.89	0.00	PASS
	Duplicate	SU03-86-DUP	removable alpha	0.8	0.89		
19	Orig	SU01-01	removable beta	176	13.27	-3.39	FAIL
	Duplicate	SU01-01-DUP	removable beta	210	14.49		
20	Orig	SU01-06	removable beta	205	14.32	-0.86	PASS
	Duplicate	SU01-06-DUP	removable beta	214	14.63		
21	Orig	SU01-12	removable beta	207	14.39	2.90	FAIL
	Duplicate	SU01-12-DUP	removable beta	178	13.34		
22	Orig	SU02-37-BOTTOM	removable beta	191	13.82	0.81	PASS
	Duplicate	SU02-37-BOTTOM-DUP	removable beta	183	13.53		
23	Orig	SU02-38-BOTTOM	removable beta	190	13.78	-1.19	PASS
	Duplicate	SU02-38-BOTTOM-DUP	removable beta	202	14.21		
24	Orig	SU02-46-BOTTOM	removable beta	191	13.82	0.30	PASS
	Duplicate	SU02-46-BOTTOM-DUP	removable beta	188	13.71		
25	Orig	SU03-83	removable beta	185	13.60	-0.61	PASS
	Duplicate	SU03-83-DUP	removable beta	191	13.82		
26	Orig	SU03-85	removable beta	174	13.19	-4.26	FAIL
	Duplicate	SU03-85-DUP	removable beta	217	14.73		

27	Orig	SU03-86	removable beta	202	14.21	-1.25	PASS
	Duplicate	SU03-86-DUP	removable beta	215	14.66		
28	Orig	SU01-01	C-14	22.52	4.74	0.75	PASS
	Duplicate	SU01-01-DUP	C-14	20.01	4.47		
29	Orig	SU01-06	C-14	30.02	5.48	0.65	PASS
	Duplicate	SU01-06-DUP	C-14	27.52	5.25		
30	Orig	SU01-12	C-14	37.53	6.13	0.97	PASS
	Duplicate	SU01-12-DUP	C-14	33.36	5.78		
31	Orig	SU02-37	C-14	23.35	4.83	0.24	PASS
	Duplicate	SU02-37-DUP	C-14	22.52	4.74		
32	Orig	SU02-38	C-14	39.19	6.26	3.02	FAIL
	Duplicate	SU02-38-DUP	C-14	26.68	5.17		
33	Orig	SU02-46	C-14	25.85	5.08	-0.67	PASS
	Duplicate	SU02-46-DUP	C-14	28.35	5.32		
34	Orig	SU03-83	C-14	30.85	5.55	1.08	PASS
	Duplicate	SU03-83-DUP	C-14	26.68	5.17		
35	Orig	SU03-85	C-14	31.69	5.63	1.06	PASS
	Duplicate	SU03-85-DUP	C-14	27.52	5.25		
36	Orig	SU03-86	C-14	24.18	4.92	-0.46	PASS
	Duplicate	SU03-86-DUP	C-14	25.85	5.08		
37	Orig	SU01-01	I-129	24.30	4.93	0.78	PASS
	Duplicate	SU01-01-DUP	I-129	21.60	4.65		
38	Orig	SU01-06	I-129	32.40	5.69	0.67	PASS
	Duplicate	SU01-06-DUP	I-129	29.70	5.45		
39	Orig	SU01-12	I-129	40.50	6.36	1.01	PASS
	Duplicate	SU01-12-DUP	I-129	36.00	6.00		
40	Orig	SU02-37	I-129	25.20	5.02	0.25	PASS
	Duplicate	SU02-37-DUP	I-129	24.30	4.93		
41	Orig	SU02-38	I-129	42.30	6.50	3.14	FAIL
	Duplicate	SU02-38-DUP	I-129	28.80	5.37		
42	Orig	SU02-46	I-129	27.90	5.28	-0.69	PASS
	Duplicate	SU02-46-DUP	I-129	30.60	5.53		
43	Orig	SU03-83	I-129	33.30	5.77	1.12	PASS
	Duplicate	SU03-83-DUP	I-129	28.80	5.37		
44	Orig	SU03-85	I-129	34.20	5.85	1.10	PASS
	Duplicate	SU03-85-DUP	I-129	29.70	5.45		
45	Orig	SU03-86	I-129	26.10	5.11	-0.48	PASS
	Duplicate	SU03-86-DUP	I-129	27.90	5.28		
46	Orig	SU01-01	Ni-63	55.24	7.43	1.18	PASS
	Duplicate	SU01-01-DUP	Ni-63	49.10	7.01		
47	Orig	SU01-06	Ni-63	73.65	8.58	1.01	PASS
	Duplicate	SU01-06-DUP	Ni-63	67.51	8.22		
48	Orig	SU01-12	Ni-63	92.06	9.59	1.52	PASS
	Duplicate	SU01-12-DUP	Ni-63	81.83	9.05		
49	Orig	SU02-37	Ni-63	57.28	7.57	0.38	PASS
	Duplicate	SU02-37-DUP	Ni-63	55.24	7.43		
50	Orig	SU02-38	Ni-63	96.15	9.81	4.73	FAIL
	Duplicate	SU02-38-DUP	Ni-63	65.47	8.09		
51	Orig	SU02-46	Ni-63	63.42	7.96	-1.04	PASS
	Duplicate	SU02-46-DUP	Ni-63	69.56	8.34		
52	Orig	SU03-83	Ni-63	75.70	8.70	1.69	PASS
	Duplicate	SU03-83-DUP	Ni-63	65.47	8.09		
53	Orig	SU03-85	Ni-63	77.74	8.82	1.66	PASS
	Duplicate	SU03-85-DUP	Ni-63	67.51	8.22		
54	Orig	SU03-86	Ni-63	59.33	7.70	-0.72	PASS
	Duplicate	SU03-86-DUP	Ni-63	63.42	7.96		