

FORM 14-IN

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51821 MA No.: SDG No.: MJNKA0
 Instrument ID: P7 Start Date : 12/27/2024
 Run Batch: LB134112 End Date : 12/28/2024

EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
		6Li		45Sc		89Y		103Rh		159Tb	
S0	1436	100		100		100		100		100	
S01	1446	101		101		102		102		101	
S02	1449	103		104		104		103		102	
S03	1452	104		102		102		102		103	
S04	1455	102		96		99		97		102	
S05	1458	103		93		97		94		102	
S06	1501	99		88		93		90		99	
S07	1504	98		86		92		86		99	
S08	1507	95		87		90		81		96	
ICV002	1530	103		95		97		96		100	
ICB002	1538	104		96		98		97		99	
ICSA002	1542	98		88		94		87		99	
ICSAB002	1545	98		93		98		92		104	
CCV011	1548	96		90		95		87		101	
CCB011	1551	99		88		93		91		97	
ZZZZZZ	1557										
ZZZZZZ	1601										
ZZZZZZ	1604										
ZZZZZZ	1607										
ZZZZZZ	1610										
ZZZZZZ	1613										
ZZZZZZ	1616										
ZZZZZZ	1619										
CCV012	1623	95		92		96		88		102	
CCB012	1625	104		95		100		99		106	
ZZZZZZ	1629										
ZZZZZZ	1632										
ZZZZZZ	1635										
ZZZZZZ	1641										
ZZZZZZ	1644										
ZZZZZZ	1647										
ZZZZZZ	1650										
ZZZZZZ	1653										
ZZZZZZ	1657										
ZZZZZZ	1700										
ZZZZZZ	1703										
ZZZZZZ	1706										
ZZZZZZ	1709										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	1712										
ZZZZZZ	1716										
ZZZZZZ	1720										
ZZZZZZ	1723										
ZZZZZZ	1726										
ZZZZZZ	1729										
ZZZZZZ	1733										
ZZZZZZ	1736										
ZZZZZZ	1739										
ZZZZZZ	1742										
ZZZZZZ	1745										
ZZZZZZ	1749										
PBW859	1752	101		100		102		102		103	
LCS859	1755	103		102		105		105		106	
CCV013	1801	97		89		93		86		101	
CCB013	1811	104		95		100		99		105	
ZZZZZZ	1814										
ZZZZZZ	1818										
PBS866	1821	102		98		102		100		103	
LCS866	1824	104		100		103		102		104	
ZZZZZZ	1828										
ZZZZZZ	1831										
ZZZZZZ	1834										
ZZZZZZ	1837										
ZZZZZZ	1840										
ZZZZZZ	1843										
ZZZZZZ	1846										
ZZZZZZ	1849										
ZZZZZZ	1852										
ZZZZZZ	1856										
ZZZZZZ	1859										
ZZZZZZ	1902										
MJNKA6	1905	103		98		104		101		108	
MJNKA6D	1908	102		99		107		102		108	
MJNKA6L	1911	101		100		104		103		106	
MJNKA6	1915	103		101		107		104		108	
ZZZZZZ	1918										
CCV014	1921	96		91		95		88		102	

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element		Element		Element		Element		Element	
		6Li	Q	45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q
CCB014	1924	99		90		97		97		104	
ZZZZZZ	1927										
ZZZZZZ	1931										
ZZZZZZ	1934										
ZZZZZZ	1937										
ZZZZZZ	1940										
ZZZZZZ	1944										
ZZZZZZ	1947										
ZZZZZZ	1950										
ZZZZZZ	1954										
ZZZZZZ	1957										
ZZZZZZ	2000										
MJNLE3	2004	96		92		99		96		105	
MJNLF9	2007	97		94		100		98		105	
MJNLG0	2010	101		95		102		101		107	
ZZZZZZ	2013										
ZZZZZZ	2017										
ZZZZZZ	2020										
ZZZZZZ	2023										
ZZZZZZ	2026										
ZZZZZZ	2029										
ZZZZZZ	2032										
ZZZZZZ	2036										
ZZZZZZ	2039										
ZZZZZZ	2042										
ZZZZZZ	2045										
ZZZZZZ	2049										
ZZZZZZ	2052										
CCV015	2055	93		88		94		87		102	
CCB015	2106	99		93		100		99		105	
ZZZZZZ	2109										
ZZZZZZ	2112										
ZZZZZZ	2115										
ZZZZZZ	2119										
ZZZZZZ	2122										
ZZZZZZ	2125										
ZZZZZZ	2128										
MJNKA0	2132	106		101		110		107		114	

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
		6Li		45Sc		89Y		103Rh		159Tb	
MJNKA2	2135	102		101		109		104		110	
MJNKA6S	2138	101		99		106		103		109	
MJNKA3	2141	102		103		110		105		111	
MJNKA4	2144	104		104		111		106		110	
MJNKA5	2147	105		109		115		108		115	
MJNKB6	2150	101		105		112		104		109	
MJNKC4	2153	104		104		110		107		111	
MJNKG9	2156	103		102		109		105		110	
MJNKH0	2159	103		104		112		107		112	
MJNKA0	2202	101		100		107		103		109	
CCV016	2232	89		91		94		86		99	
CCB016	2235	93		87		93		93		100	
ZZZZZZ	2241										
ZZZZZZ	2243										
ZZZZZZ	2247										
ZZZZZZ	2250										
ZZZZZZ	2253										
ZZZZZZ	2256										
CCV017	2344	86		86		90		83		97	
CCB017	2347	90		83		90		90		97	
ZZZZZZ	2351										
ZZZZZZ	2354										
ZZZZZZ	2357										
ZZZZZZ	0000										
ZZZZZZ	0003										
ZZZZZZ	0006										
ZZZZZZ	0009										
ZZZZZZ	0012										
ZZZZZZ	0016										
ZZZZZZ	0019										
ZZZZZZ	0022										
ZZZZZZ	0025										
ZZZZZZ	0028										
ZZZZZZ	0032										
ZZZZZZ	0035										
ZZZZZZ	0038										
ZZZZZZ	0041										
ZZZZZZ	0044										

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EPA Sample No.	Time	Internal Standard %RI For: Non-Collision Cell									
		Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	0047										
MJNKA2	0050	103		104		108		105		108	
MJNKA2	0054	99		102		105		104		106	
MJNKA3	0057	101		102		105		104		107	
CCV018	0100	92		85		91		84		98	
CCB018	0103	97		85		92		92		101	
MJNKA4	0106	100		92		99		97		104	
MJNKA4	0109	100		97		102		102		107	
MJNKA5	0112	102		100		106		102		108	
MJNKA5	0115	102		99		104		103		107	
MJNKA5	0118	100		96		102		101		107	
MJNKB6	0122	102		99		105		100		107	
MJNKB6	0125	101		97		103		101		107	
MJNKB6	0128	96		93		98		96		101	
MJNKB6	0131	99		96		101		101		105	
ZZZZZZ	0134										
ZZZZZZ	0137										
ZZZZZZ	0140										
ZZZZZZ	0143										
ZZZZZZ	0147										
CCV019	0150	92		84		91		84		99	
CCB019	0153	99		86		94		94		103	

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
S0	1436	100		100		100		100		100	
S01	1446	103		103		103		102		101	
S02	1449	102		102		103		102		101	
S03	1452	98		99		99		100		100	
S04	1455	92		94		95		99		99	
S05	1458	86		90		90		98		98	
S06	1501	82		87		87		97		97	
S07	1504	82		87		85		97		97	
S08	1507	87		88		80		93		94	
ICV002	1530	89		92		94		97		97	
ICB002	1538	96		96		98		99		98	
ICSA002	1542	87		92		89		100		100	
ICSAB002	1545	90		93		91		101		101	
CCV011	1548	88		91		86		98		98	
CCB011	1551	93		96		99		103		102	
ZZZZZZ	1557										
ZZZZZZ	1601										
ZZZZZZ	1604										
ZZZZZZ	1607										
ZZZZZZ	1610										
ZZZZZZ	1613										
ZZZZZZ	1616										
ZZZZZZ	1619										
CCV012	1623	88		91		86		98		98	
CCB012	1625	92		96		98		102		102	
ZZZZZZ	1629										
ZZZZZZ	1632										
ZZZZZZ	1635										
ZZZZZZ	1641										
ZZZZZZ	1644										
ZZZZZZ	1647										
ZZZZZZ	1650										
ZZZZZZ	1653										
ZZZZZZ	1657										
ZZZZZZ	1700										
ZZZZZZ	1703										
ZZZZZZ	1706										
ZZZZZZ	1709										

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	1712										
ZZZZZZ	1716										
ZZZZZZ	1720										
ZZZZZZ	1723										
ZZZZZZ	1726										
ZZZZZZ	1729										
ZZZZZZ	1733										
ZZZZZZ	1736										
ZZZZZZ	1739										
ZZZZZZ	1742										
ZZZZZZ	1745										
ZZZZZZ	1749										
PBW859	1752	99		100		102		102		102	
LCS859	1755	100		101		102		102		102	
CCV013	1801	85		89		85		98		99	
CCB013	1811	92		96		99		102		102	
ZZZZZZ	1814										
ZZZZZZ	1818										
PBS866	1821	95		98		100		102		101	
LCS866	1824	98		100		102		103		103	
ZZZZZZ	1828										
ZZZZZZ	1831										
ZZZZZZ	1834										
ZZZZZZ	1837										
ZZZZZZ	1840										
ZZZZZZ	1843										
ZZZZZZ	1846										
ZZZZZZ	1849										
ZZZZZZ	1852										
ZZZZZZ	1856										
ZZZZZZ	1859										
ZZZZZZ	1902										
MJNKA6	1905	94		99		101		105		105	
MJNKA6D	1908	96		101		102		105		104	
MJNKA6L	1911	97		100		102		103		102	
MJNKA6	1915	97		102		102		104		105	
ZZZZZZ	1918										
CCV014	1921	84		88		84		97		97	

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EPA Sample No.	Time	Internal Standard %RI For: Collision Cell									
		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
CCB014	1924	87		93		96		101		100	
ZZZZZZ	1927										
ZZZZZZ	1931										
ZZZZZZ	1934										
ZZZZZZ	1937										
ZZZZZZ	1940										
ZZZZZZ	1944										
ZZZZZZ	1947										
ZZZZZZ	1950										
ZZZZZZ	1954										
ZZZZZZ	1957										
ZZZZZZ	2000										
MJNLE3	2004	88		93		96		102		102	
MJNLF9	2007	90		94		96		102		102	
MJNLG0	2010	90		95		98		102		102	
ZZZZZZ	2013										
ZZZZZZ	2017										
ZZZZZZ	2020										
ZZZZZZ	2023										
ZZZZZZ	2026										
ZZZZZZ	2029										
ZZZZZZ	2032										
ZZZZZZ	2036										
ZZZZZZ	2039										
ZZZZZZ	2042										
ZZZZZZ	2045										
ZZZZZZ	2049										
ZZZZZZ	2052										
CCV015	2055	82		87		85		97		98	
CCB015	2106	89		94		98		101		101	
ZZZZZZ	2109										
ZZZZZZ	2112										
ZZZZZZ	2115										
ZZZZZZ	2119										
ZZZZZZ	2122										
ZZZZZZ	2125										
ZZZZZZ	2128										
MJNKA0	2132	96		102		103		106		105	

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		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
MJNKA2	2135	98		104		104		107		107	
MJNKA6S	2138	91		97		99		101		102	
MJNKA3	2141	100		105		104		107		106	
MJNKA4	2144	101		105		104		107		107	
MJNKA5	2147	104		107		105		107		106	
MJNKB6	2150	101		106		103		106		107	
MJNKC4	2153	98		102		104		105		106	
MJNKG9	2156	97		102		103		105		105	
MJNKH0	2159	96		103		103		105		105	
MJNKA0	2202	95		101		102		105		105	
CCV016	2232	80		85		82		94		95	
CCB016	2235	84		90		93		97		99	
ZZZZZZ	2241										
ZZZZZZ	2243										
ZZZZZZ	2247										
ZZZZZZ	2250										
ZZZZZZ	2253										
ZZZZZZ	2256										
CCV017	2344	79		84		81		94		93	
CCB017	2347	82		88		92		97		96	
ZZZZZZ	2351										
ZZZZZZ	2354										
ZZZZZZ	2357										
ZZZZZZ	0000										
ZZZZZZ	0003										
ZZZZZZ	0006										
ZZZZZZ	0009										
ZZZZZZ	0012										
ZZZZZZ	0016										
ZZZZZZ	0019										
ZZZZZZ	0022										
ZZZZZZ	0025										
ZZZZZZ	0028										
ZZZZZZ	0032										
ZZZZZZ	0035										
ZZZZZZ	0038										
ZZZZZZ	0041										
ZZZZZZ	0044										

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		Element		Element		Element		Element		Element	
		45Sc	Q	89Y	Q	103Rh	Q	159Tb	Q	165Ho	Q
ZZZZZZ	0047										
MJNKA2	0050	101		104		105		105		106	
MJNKA2	0054	98		101		103		105		104	
MJNKA3	0057	98		101		102		104		103	
CCV018	0100	78		84		81		94		95	
CCB018	0103	82		88		91		98		99	
MJNKA4	0106	92		98		99		104		104	
MJNKA4	0109	94		99		101		104		104	
MJNKA5	0112	99		102		104		106		106	
MJNKA5	0115	94		99		102		104		103	
MJNKA5	0118	93		97		100		103		103	
MJNKB6	0122	95		100		100		104		105	
MJNKB6	0125	93		98		100		103		104	
MJNKB6	0128	92		97		99		102		103	
MJNKB6	0131	92		96		99		102		103	
ZZZZZZ	0134										
ZZZZZZ	0137										
ZZZZZZ	0140										
ZZZZZZ	0143										
ZZZZZZ	0147										
CCV019	0150	79		85		83		96		96	
CCB019	0153	82		89		92		98		99	