



ICP-MS	INTERNAL	STANDARD	RELATIVE	INTENSITY	SUMMARY
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Contract: JAC005

Sas No.: P3440 SDG No.: P3440

Start Date : 08/25/2024

End Date : 08/26/2024

[illegible]

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3440

Sas No.: P3440 SDG No.: P3440

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1438	100		100		100		100		100	
S2	S2	1442	101		102		103		102		100	
S3	S3	1445	105		103		103		101		103	
S4	S4	1448	109		104		104		102		104	
S5	S5	1451	111		104		101		100		105	
S6	S6	1454	114		101		103		99		105	
S7	S7	1457	112		104		105		98		105	
S8	S8	1459	110		101		99		88		101	
ICV01	ICV01	1638	107		105		105		104		103	
LLICV	LLICV	1702	103		104		104		103		102	
ICB01	ICB01	1705	105		105		106		105		105	
ICSA01	ICSA01	1708	114		106		103		97		104	
ICSAB01	ICSAB01	1711	107		105		105		98		107	
CCV01	CCV01	1714	109		105		105		96		105	
CCB01	CCB01	1723	106		103		103		103		103	
CRI	CRI	1726	105		102		101		102		103	
PB162950BL	PB162950BL	1731	107		103		102		99		101	
PB162950BS	PB162950BS	1734	110		105		104		98		105	
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
ZZZZZZ	ZZZZZZ	1747										
ZZZZZZ	ZZZZZZ	1750										
ZZZZZZ	ZZZZZZ	1753										
ZZZZZZ	ZZZZZZ	1757										
ZZZZZZ	ZZZZZZ	1800										
CCV02	CCV02	1803	113		104		104		94		104	
CCB02	CCB02	1809	108		104		103		102		102	
P3440-01	923-K1-WS-01	1813	112		106		103		100		104	
P3440-01DUP	923-K1-WS-01	1816	113		107		105		101		105	
P3440-01L	923-K1-WS-01	1819	114		106		105		105		104	
P3440-04	922-K1-WS-01	1822	110		106		105		101		106	
P3440-02	923-K1-WS-01	1825	116		109		106		103		108	
P3440-03	923-K1-WS-01	1828	115		108		105		100		106	
P3440-01A	923-K1-WS-01	1831	117		109		106		102		107	
ZZZZZZ	ZZZZZZ	1834										
ZZZZZZ	ZZZZZZ	1837										

Internal Standard %RI Limit: 70 - 130

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ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3440

Sas No.: P3440 SDG No.: P3440

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	1840										
CCV03	CCV03	1843	118		107		105		96		106	
CCB03	CCB03	1849	109		103		102		102		101	
ZZZZZZ	ZZZZZZ	1855										
ZZZZZZ	ZZZZZZ	1858										
ZZZZZZ	ZZZZZZ	1902										
ZZZZZZ	ZZZZZZ	1905										
ZZZZZZ	ZZZZZZ	1908										
ZZZZZZ	ZZZZZZ	1911										
ZZZZZZ	ZZZZZZ	1914										
ZZZZZZ	ZZZZZZ	1917										
ZZZZZZ	ZZZZZZ	1921										
ZZZZZZ	ZZZZZZ	1924										
CCV04	CCV04	1927	108		106		105		98		104	
CCB04	CCB04	1933	107		108		104		105		104	
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1940										
ZZZZZZ	ZZZZZZ	1948										
ZZZZZZ	ZZZZZZ	1951										
ZZZZZZ	ZZZZZZ	1954										
ZZZZZZ	ZZZZZZ	1958										
ZZZZZZ	ZZZZZZ	2001										
ZZZZZZ	ZZZZZZ	2004										
ZZZZZZ	ZZZZZZ	2007										
ZZZZZZ	ZZZZZZ	2011										
CCV05	CCV05	2014	109		107		106		97		105	
CCB05	CCB05	2029	101		105		103		101		99	
ZZZZZZ	ZZZZZZ	2032										
ZZZZZZ	ZZZZZZ	2035										
ZZZZZZ	ZZZZZZ	2039										
ZZZZZZ	ZZZZZZ	2042										
ZZZZZZ	ZZZZZZ	2045										
ZZZZZZ	ZZZZZZ	2048										
ZZZZZZ	ZZZZZZ	2051										
ZZZZZZ	ZZZZZZ	2054										
ZZZZZZ	ZZZZZZ	2056										

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ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3440

Sas No.: P3440 SDG No.: P3440

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
P3440-02	923-K1-WS-0	2059	113		104		104		98		104	
CCV06	CCV06	2102	119		108		105		96		105	
CCB06	CCB06	2114	109		105		102		102		101	
P3440-03	923-K1-WS-0	2117	112		107		104		99		104	
P3440-01A	923-K1-WS-0	2120	89		82		80		76		80	
ZZZZZZ	ZZZZZZ	2122										
ZZZZZZ	ZZZZZZ	2126										
ZZZZZZ	ZZZZZZ	2129										
ZZZZZZ	ZZZZZZ	2132										
ZZZZZZ	ZZZZZZ	2135										
ZZZZZZ	ZZZZZZ	2138										
ZZZZZZ	ZZZZZZ	2141										
ZZZZZZ	ZZZZZZ	2144										
CCV07	CCV07	2147	115		108		106		95		105	
CCB07	CCB07	2155	109		108		107		105		105	
ZZZZZZ	ZZZZZZ	2200										
ZZZZZZ	ZZZZZZ	2203										
ZZZZZZ	ZZZZZZ	2206										
ZZZZZZ	ZZZZZZ	2209										
ZZZZZZ	ZZZZZZ	2212										
ZZZZZZ	ZZZZZZ	2216										
ZZZZZZ	ZZZZZZ	2219										
ZZZZZZ	ZZZZZZ	2222										
ZZZZZZ	ZZZZZZ	2225										
ZZZZZZ	ZZZZZZ	2228										
CCV08	CCV08	2231	110		109		108		100		107	
CCB08	CCB08	2250	103		108		105		104		102	
ZZZZZZ	ZZZZZZ	2254										
ZZZZZZ	ZZZZZZ	2257										
ZZZZZZ	ZZZZZZ	2300										
ZZZZZZ	ZZZZZZ	2303										
ZZZZZZ	ZZZZZZ	2306										
ZZZZZZ	ZZZZZZ	2309										
ZZZZZZ	ZZZZZZ	2312										
ZZZZZZ	ZZZZZZ	2315										
ZZZZZZ	ZZZZZZ	2319										

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Contract: JACO05

Lab Code: CHEM Case no.: P3440

Sas No.: P3440 SDG No.: P3440

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	2322										
CCV09	CCV09	2334	106		107		102		94		101	
CCB09	CCB09	2343	107		109		105		103		101	
ZZZZZZ	ZZZZZZ	2346										
ZZZZZZ	ZZZZZZ	2350										
ZZZZZZ	ZZZZZZ	2353										
ZZZZZZ	ZZZZZZ	2356										
ZZZZZZ	ZZZZZZ	2359										
ZZZZZZ	ZZZZZZ	0003										
ZZZZZZ	ZZZZZZ	0006										
ZZZZZZ	ZZZZZZ	0009										
ZZZZZZ	ZZZZZZ	0012										
ZZZZZZ	ZZZZZZ	0014										
CCV10	CCV10	0042	110		108		104		95		102	
CCB10	CCB10	0052	114		109		105		103		102	
ZZZZZZ	ZZZZZZ	0055										
ZZZZZZ	ZZZZZZ	0058										
P3440-01A	923-K1-WS-0	0115	119		110		104		98		103	
CCV11	CCV11	0117	120		107		103		94		102	
CCB11	CCB11	0130	109		107		102		102		100	

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Sas No.: P3440 SDG No.: P3440

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1438	100		100		100		100		100	
S2	S2	1442	103		102		102		101		103	
S3	S3	1445	104		103		102		103		105	
S4	S4	1448	102		102		102		104		106	
S5	S5	1451	99		98		98		104		105	
S6	S6	1454	97		99		97		105		106	
S7	S7	1457	99		100		98		106		108	
S8	S8	1459	98		97		88		101		103	
ICV01	ICV01	1638	102		101		101		103		104	
LLICV	LLICV	1702	104		104		104		103		104	
ICB01	ICB01	1705	105		103		103		103		106	
ICSA01	ICSA01	1708	98		99		96		104		107	
ICSAB01	ICSAB01	1711	99		101		98		104		105	
CCV01	CCV01	1714	100		100		95		105		107	
CCB01	CCB01	1723	99		100		102		102		104	
CRI	CRI	1726	99		99		103		102		104	
PB162950BL	PB162950BL	1731	99		99		101		101		102	
PB162950BS	PB162950BS	1734	97		99		97		104		106	
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
ZZZZZZ	ZZZZZZ	1747										
ZZZZZZ	ZZZZZZ	1750										
ZZZZZZ	ZZZZZZ	1753										
ZZZZZZ	ZZZZZZ	1757										
ZZZZZZ	ZZZZZZ	1800										
CCV02	CCV02	1803	98		99		94		105		106	
CCB02	CCB02	1809	101		101		102		103		106	
P3440-01	923-K1-WS-01	1813	102		101		100		104		108	
P3440-01DUP	923-K1-WS-01	1816	101		102		102		105		107	
P3440-01L	923-K1-WS-01	1819	101		102		104		105		106	
P3440-04	922-K1-WS-01	1822	101		101		99		102		106	
P3440-02	923-K1-WS-01	1825	104		104		101		108		110	
P3440-03	923-K1-WS-01	1828	101		103		100		106		109	
P3440-01A	923-K1-WS-01	1831	103		102		100		107		110	
ZZZZZZ	ZZZZZZ	1834										
ZZZZZZ	ZZZZZZ	1837										

Internal Standard %RI Limit: 70 - 130

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Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	1840										
CCV03	CCV03	1843	101		99		95		105		109	
CCB03	CCB03	1849	102		102		104		104		106	
ZZZZZZ	ZZZZZZ	1855										
ZZZZZZ	ZZZZZZ	1858										
ZZZZZZ	ZZZZZZ	1902										
ZZZZZZ	ZZZZZZ	1905										
ZZZZZZ	ZZZZZZ	1908										
ZZZZZZ	ZZZZZZ	1911										
ZZZZZZ	ZZZZZZ	1914										
ZZZZZZ	ZZZZZZ	1917										
ZZZZZZ	ZZZZZZ	1921										
ZZZZZZ	ZZZZZZ	1924										
CCV04	CCV04	1927	100		100		96		105		107	
CCB04	CCB04	1933	103		105		106		105		106	
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1940										
ZZZZZZ	ZZZZZZ	1948										
ZZZZZZ	ZZZZZZ	1951										
ZZZZZZ	ZZZZZZ	1954										
ZZZZZZ	ZZZZZZ	1958										
ZZZZZZ	ZZZZZZ	2001										
ZZZZZZ	ZZZZZZ	2004										
ZZZZZZ	ZZZZZZ	2007										
ZZZZZZ	ZZZZZZ	2011										
CCV05	CCV05	2014	99		101		95		106		106	
CCB05	CCB05	2029	102		104		104		104		104	
ZZZZZZ	ZZZZZZ	2032										
ZZZZZZ	ZZZZZZ	2035										
ZZZZZZ	ZZZZZZ	2039										
ZZZZZZ	ZZZZZZ	2042										
ZZZZZZ	ZZZZZZ	2045										
ZZZZZZ	ZZZZZZ	2048										
ZZZZZZ	ZZZZZZ	2051										
ZZZZZZ	ZZZZZZ	2054										
ZZZZZZ	ZZZZZZ	2056										

Internal Standard %RI Limit: 70 - 130

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Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
P3440-02	923-K1-WS-0	2059	98		100		97		104		107	
CCV06	CCV06	2102	99		101		97		107		109	
CCB06	CCB06	2114	99		100		102		102		104	
P3440-03	923-K1-WS-0	2117	99		102		99		104		106	
P3440-01A	923-K1-WS-0	2120	100		102		100		106		107	
ZZZZZZ	ZZZZZZ	2122										
ZZZZZZ	ZZZZZZ	2126										
ZZZZZZ	ZZZZZZ	2129										
ZZZZZZ	ZZZZZZ	2132										
ZZZZZZ	ZZZZZZ	2135										
ZZZZZZ	ZZZZZZ	2138										
ZZZZZZ	ZZZZZZ	2141										
ZZZZZZ	ZZZZZZ	2144										
CCV07	CCV07	2147	101		103		96		104		108	
CCB07	CCB07	2155	103		105		105		106		107	
ZZZZZZ	ZZZZZZ	2200										
ZZZZZZ	ZZZZZZ	2203										
ZZZZZZ	ZZZZZZ	2206										
ZZZZZZ	ZZZZZZ	2209										
ZZZZZZ	ZZZZZZ	2212										
ZZZZZZ	ZZZZZZ	2216										
ZZZZZZ	ZZZZZZ	2219										
ZZZZZZ	ZZZZZZ	2222										
ZZZZZZ	ZZZZZZ	2225										
ZZZZZZ	ZZZZZZ	2228										
CCV08	CCV08	2231	101		105		98		108		110	
CCB08	CCB08	2250	104		105		107		105		105	
ZZZZZZ	ZZZZZZ	2254										
ZZZZZZ	ZZZZZZ	2257										
ZZZZZZ	ZZZZZZ	2300										
ZZZZZZ	ZZZZZZ	2303										
ZZZZZZ	ZZZZZZ	2306										
ZZZZZZ	ZZZZZZ	2309										
ZZZZZZ	ZZZZZZ	2312										
ZZZZZZ	ZZZZZZ	2315										
ZZZZZZ	ZZZZZZ	2319										

Internal Standard %RI Limit: 70 - 130

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Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	2322										
CCV09	CCV09	2334	98		101		95		103		105	
CCB09	CCB09	2343	102		105		106		104		107	
ZZZZZZ	ZZZZZZ	2346										
ZZZZZZ	ZZZZZZ	2350										
ZZZZZZ	ZZZZZZ	2353										
ZZZZZZ	ZZZZZZ	2356										
ZZZZZZ	ZZZZZZ	2359										
ZZZZZZ	ZZZZZZ	0003										
ZZZZZZ	ZZZZZZ	0006										
ZZZZZZ	ZZZZZZ	0009										
ZZZZZZ	ZZZZZZ	0012										
ZZZZZZ	ZZZZZZ	0014										
CCV10	CCV10	0042	99		103		96		106		107	
CCB10	CCB10	0052	100		105		105		104		106	
ZZZZZZ	ZZZZZZ	0055										
ZZZZZZ	ZZZZZZ	0058										
P3440-01A	923-K1-WS-0	0115	98		101		99		105		106	
CCV11	CCV11	0117	96		100		95		104		109	
CCB11	CCB11	0130	100		105		106		107		108	