

US EPA Tune Check Sample Report

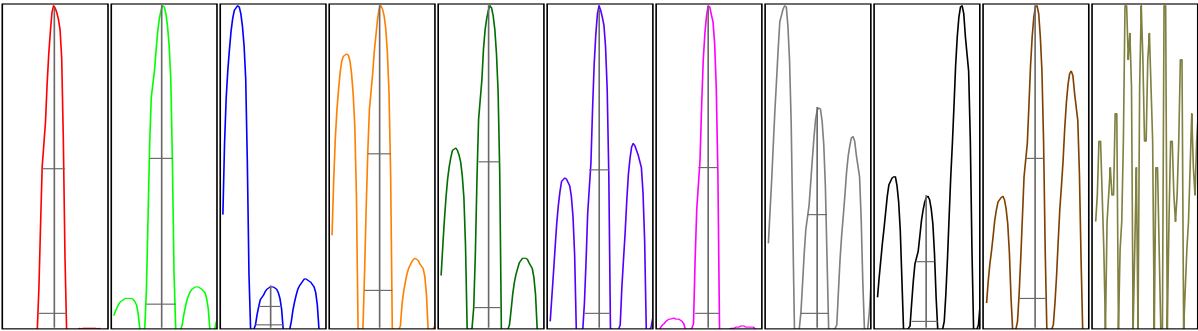
Batch Folder D:\ICP-MS Data\P7012717.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 21632           | 1.22             | 5.00               |                |
| 24   | 3994867         | 0.83             | 5.00               |                |
| 25   | 527986          | 0.75             | 5.00               |                |
| 26   | 610736          | 0.47             | 5.00               |                |
| 59   | 381001          | 0.83             | 5.00               |                |
| 113  | 83729           | 0.84             | 5.00               |                |
| 115  | 1437653         | 0.94             | 5.00               |                |
| 206  | 127409          | 1.03             | 5.00               |                |
| 207  | 112895          | 1.09             | 5.00               |                |
| 208  | 269203          | 1.02             | 5.00               |                |
| 220  | 4               | 29.24            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 21340                | 21406                | 21643                | 21806                | 21966                |
| 24   | 3961382              | 3978837              | 3983348              | 4047921              | 4002849              |
| 25   | 523443               | 524494               | 529352               | 532964               | 529677               |
| 26   | 608203               | 608147               | 610246               | 615013               | 612070               |
| 59   | 376381               | 379096               | 382367               | 383186               | 383974               |
| 113  | 82581                | 83553                | 84268                | 84203                | 84040                |
| 115  | 1417049              | 1432159              | 1440505              | 1450060              | 1448490              |
| 206  | 125157               | 127390               | 127971               | 128354               | 128173               |
| 207  | 111020               | 112444               | 113170               | 113686               | 114157               |
| 208  | 264788               | 268440               | 270310               | 271652               | 270823               |
| 220  | 2                    | 5                    | 5                    | 4                    | 4                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 3691           | 9.00             | 8.9 - 9.1          |                | 0.820                | 0.900                  |                        |
| 24   | 638908         | 23.95            | 23.9 - 24.1        |                | 0.845                | 0.900                  |                        |
| 25   | 84545          | 24.95            | 24.9 - 25.1        |                | 0.795                | 0.900                  |                        |
| 26   | 99353          | 25.95            | 25.9 - 26.1        |                | 0.803                | 0.900                  |                        |
| 59   | 63417          | 58.95            | 58.9 - 59.1        |                | 0.794                | 0.900                  |                        |
| 113  | 15461          | 113.00           | 112.9 - 113.1      |                | 0.764                | 0.900                  |                        |
| 115  | 266241         | 115.00           | 114.9 - 115.1      |                | 0.736                | 0.900                  |                        |
| 206  | 23900          | 206.00           | 205.9 - 206.1      |                | 0.792                | 0.900                  |                        |
| 207  | 20787          | 207.00           | 206.9 - 207.1      |                | 0.777                | 0.900                  |                        |
| 208  | 50554          | 208.00           | 207.9 - 208.1      |                | 0.790                | 0.900                  |                        |
| 220  |                |                  | -                  |                |                      |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName | Value | Unit |
|---------------|-------|------|----------------|-------|-------|---------------|-------|------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min |               |       |      |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     |               |       |      |
| Smpl Depth    | 10.0  | mm   | Nebulizer Pump | 0.10  | rps   |               |       |      |
| S/C Temp      | 2     | °C   |                |       |       |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.9   | V    |               |       |      |
| Extract 2     | -185.0 | V    | Cell Entrance | -30   | V    |               |       |      |
| Omega Bias    | -75    | V    | Cell Exit     | -50   | V    |               |       |      |
| Deflect       | 14.2   | V    |               |       |      |               |       |      |

## Cell Parameters ##

| ParameterName         | Value | Unit   | ParameterName | Value | Unit | ParameterName | Value | Unit |
|-----------------------|-------|--------|---------------|-------|------|---------------|-------|------|
| Use Gas               | false |        | OctP Bias     | -8.0  | V    |               |       |      |
| He Flow               | 0.0   | mL/min | OctP RF       | 170   | V    |               |       |      |
| Energy Discrimination | 5.0   | V      |               |       |      |               |       |      |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 115470          | 0.16             |                    |
| 89   | 7316            | 1.10             |                    |
| 205  | 123217          | 0.59             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 115687               | 115206               | 115477               | 115419               | 115564               |
| 89   | 7354                 | 7270                 | 7303                 | 7430                 | 7221                 |
| 205  | 123799               | 122552               | 123086               | 124137               | 122510               |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName | Value | Unit |
|---------------|-------|------|----------------|-------|-------|---------------|-------|------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min |               |       |      |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     |               |       |      |
| Smpl Depth    | 10.0  | mm   | Nebulizer Pump | 0.10  | rps   |               |       |      |
| S/C Temp      | 2     | °C   |                |       |       |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.9   | V    |               |       |      |
| Extract 2     | -195.0 | V    | Cell Entrance | -40   | V    |               |       |      |
| Omega Bias    | -90    | V    | Cell Exit     | -60   | V    |               |       |      |
| Deflect       | 2.6    | V    |               |       |      |               |       |      |

## Cell Parameters ##

| ParameterName         | Value | Unit   | ParameterName | Value | Unit | ParameterName | Value | Unit |
|-----------------------|-------|--------|---------------|-------|------|---------------|-------|------|
| Use Gas               | true  |        | OctP Bias     | -18.0 | V    |               |       |      |
| He Flow               | 4.1   | mL/min | OctP RF       | 200   | V    |               |       |      |
| Energy Discrimination | 5.0   | V      |               |       |      |               |       |      |