

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120421\  
 Data File : VY006937.D  
 Acq On : 04 Dec 2021 13:36  
 Operator : SY/MD  
 Sample : M4884-07  
 Misc : 4.47g/10.0mL/MSVOA\_Y/soil  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EW9J3

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 12/14/2021  
 Supervised By : Mahesh Dadoda 12/14/2021

Quant Time: Dec 05 07:54:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMLYM120321SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 04 02:26:29 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.691          | 114  | 184932     | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.490         | 117  | 166276     | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.422         | 152  | 73858      | 25.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 2.247          | 65   | 27855      | 11.695   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 46.800%  |        |          |
| 7) Chloroethane-d5            | 2.772          | 69   | 23859      | 12.770   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 51.080%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 3.851          | 63   | 42107      | 8.504    | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 34.000%# |        |          |
| 21) 2-Butanone-d5             | 6.893          | 46   | 32209      | 35.012   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 70.020%  |        |          |
| 24) Chloroform-d              | 7.478          | 84   | 66127      | 14.348   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 57.400%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.143          | 65   | 41884      | 15.140   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 60.560%# |        |          |
| 32) Benzene-d6                | 8.112          | 84   | 120966     | 13.696   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 54.800%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 9.124          | 67   | 42213      | 15.211   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 60.840%# |        |          |
| 41) Toluene-d8                | 10.179         | 98   | 101669     | 12.290   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 49.160%  |        |          |
| 43) trans-1,3-Dichloroprop... | 10.435         | 79   | 18673      | 13.911   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 55.640%  |        |          |
| 47) 2-Hexanone-d5             | 10.788         | 63   | 20072      | 31.251   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 62.500%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.556         | 84   | 32915      | 14.236   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 56.960%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.721         | 152  | 33525      | 13.919   | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 55.680%# |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 13) Acetone                   | 3.954          | 43   | 2127m      | 2.523    | ug/L   |          |
| 33) Benzene                   | 8.161          | 78   | 30860      | 2.761    | ug/L   | 100      |
| 34) Trichloroethene           | 8.941          | 95   | 3009       | 1.093    | ug/L   | 82       |
| 42) Toluene                   | 10.246         | 91   | 31367      | 2.630    | ug/L   | 96       |
| 55) Styrene                   | 12.044         | 104  | 6696       | 0.839    | ug/L   | 99       |
| -----                         |                |      |            |          |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

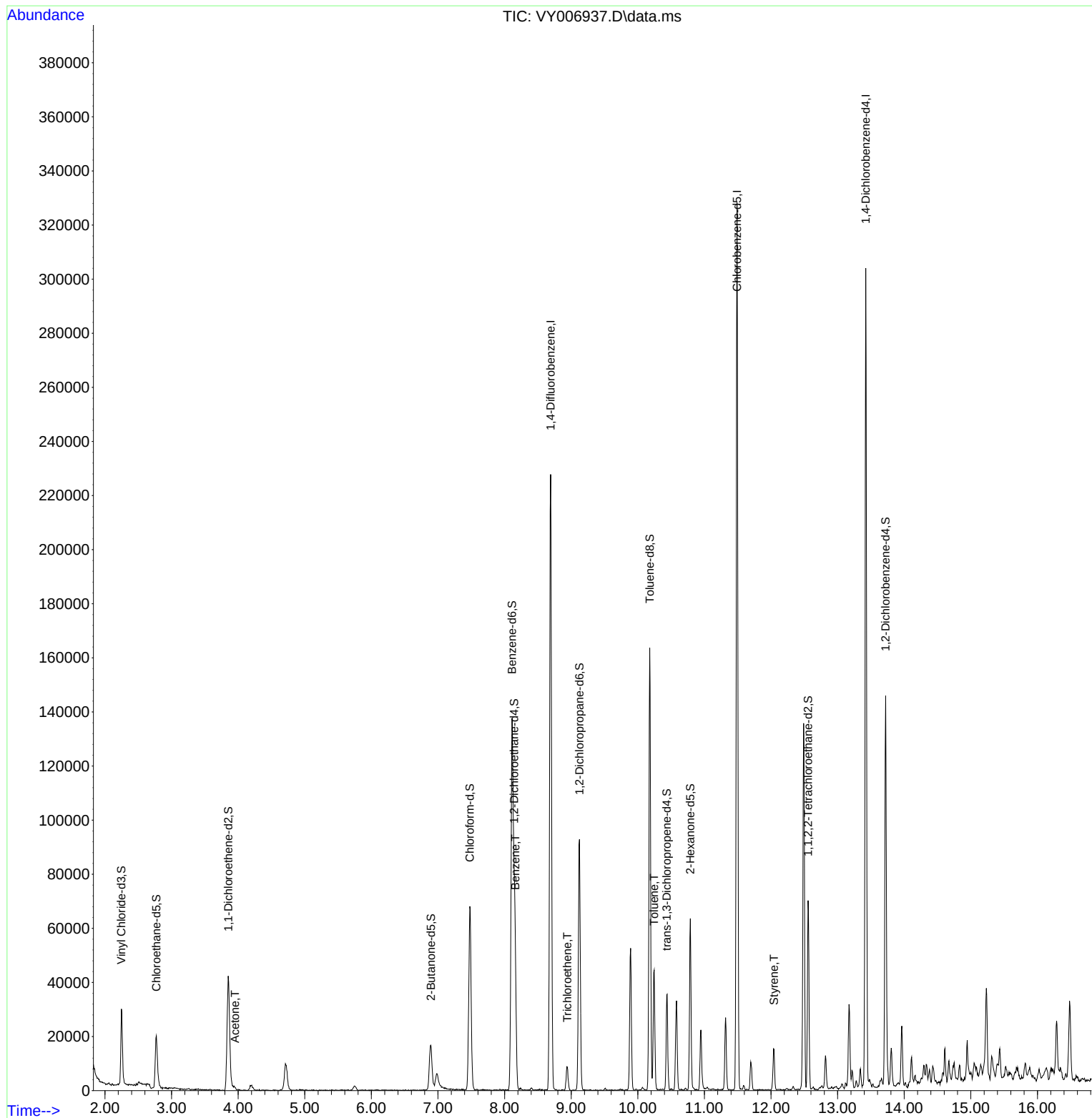
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY120421\  
Data File : VY006937.D  
Acq On : 04 Dec 2021 13:36  
Operator : SY/MD  
Sample : M4884-07  
Misc : 4.47g/10.0mL/MSVOA\_Y/SOIL  
ALS Vial : 11 Sample Multiplier: 1

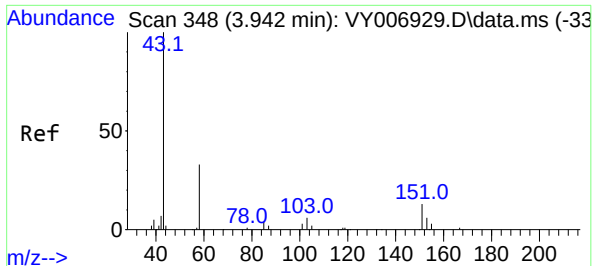
Instrument :  
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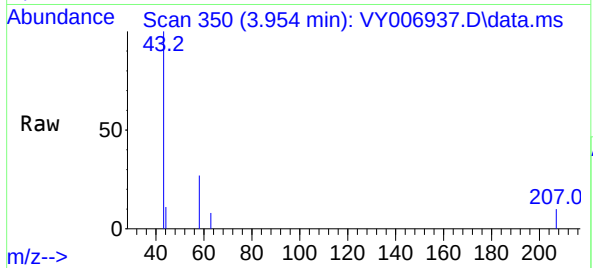
Quant Time: Dec 05 07:54:26 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\SFAMYL120321SMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Dec 04 02:26:29 2021  
Response via : Initial Calibration





#13  
Acetone  
Concen: 2.523 ug/L m  
RT: 3.954 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VY006937.D  
Acq: 04 Dec 2021 13:36

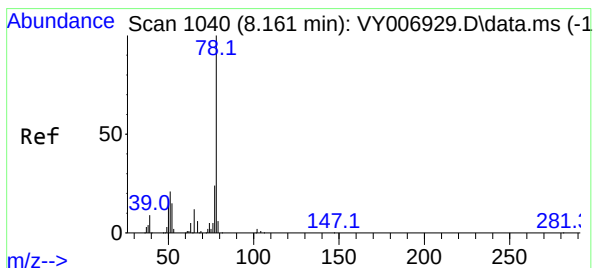
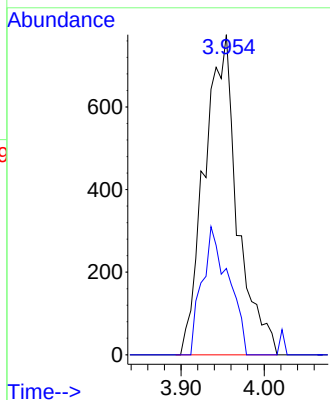
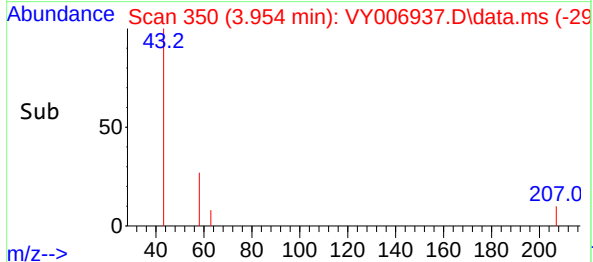
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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Tgt Ion: 43 Resp: 212  
Ion Ratio Lower Upper  
43 100  
58 32.1 0.0 60.8

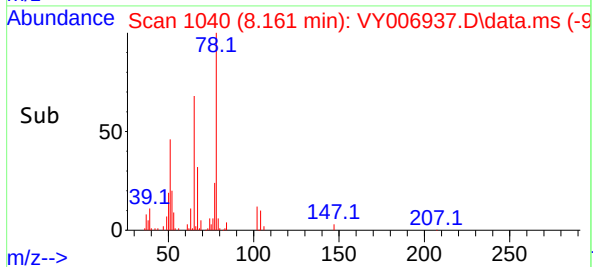
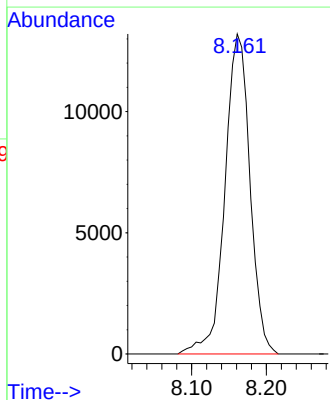
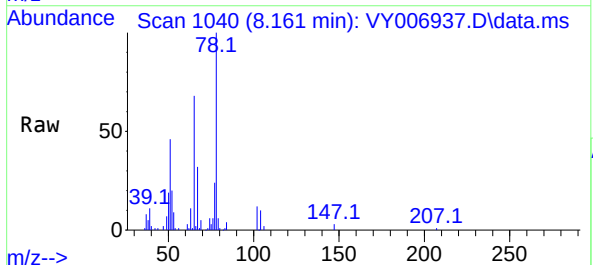
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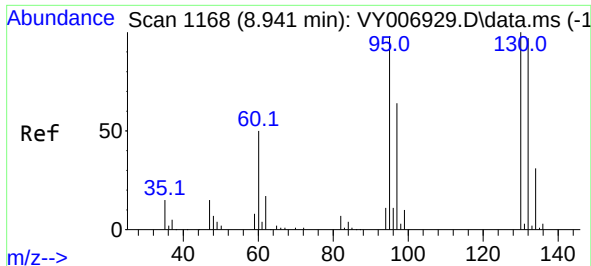
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#33  
Benzene  
Concen: 2.761 ug/L  
RT: 8.161 min Scan# 1040  
Delta R.T. -0.000 min  
Lab File: VY006937.D  
Acq: 04 Dec 2021 13:36

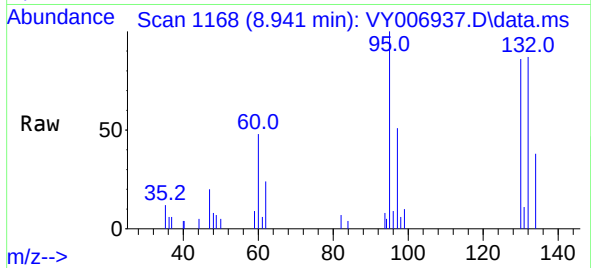
Tgt Ion: 78 Resp: 30860





#34  
Trichloroethene  
Concen: 1.093 ug/L  
RT: 8.941 min Scan# 1168  
Delta R.T. -0.000 min  
Lab File: VY006937.D  
Acq: 04 Dec 2021 13:36

Instrument :  
MSVOA\_Y  
ClientSampleId :  
EW9J3

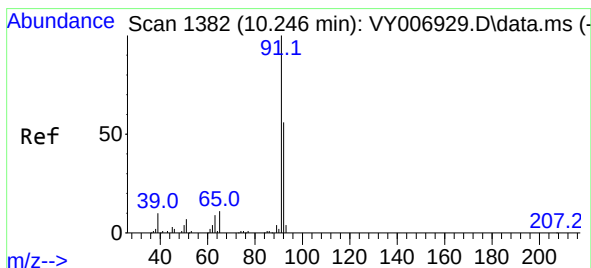
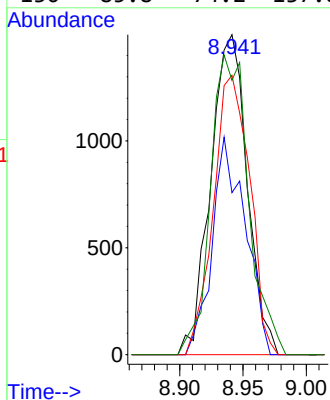
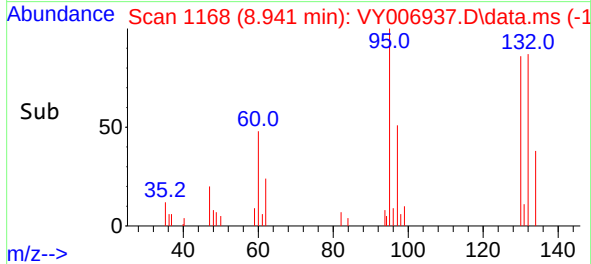


Tgt Ion: 95 Resp: 3009

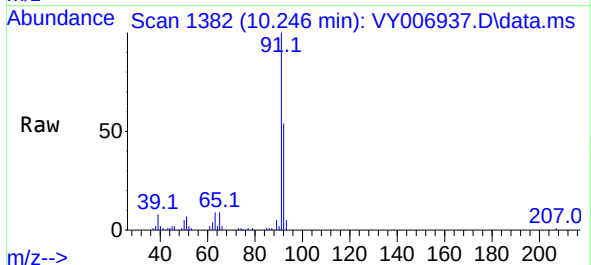
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 50.6  | 47.3  | 87.8  |
| 132 | 87.3  | 71.3  | 132.5 |
| 130 | 85.8  | 74.2  | 137.8 |

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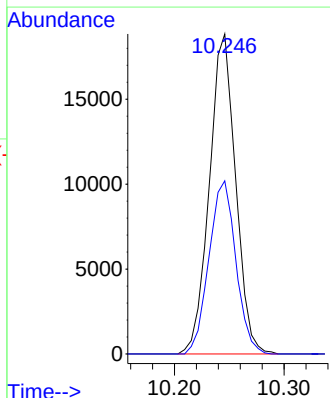
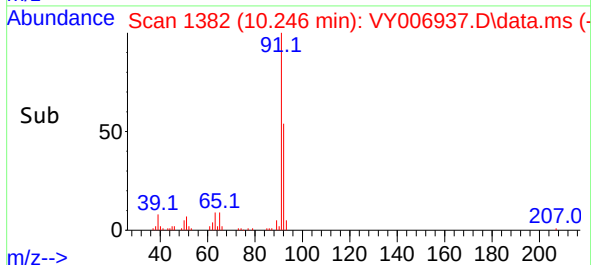


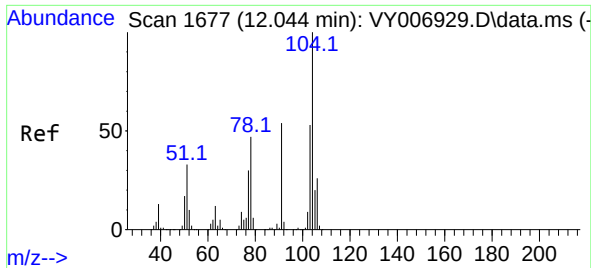
#42  
Toluene  
Concen: 2.630 ug/L  
RT: 10.246 min Scan# 1382  
Delta R.T. -0.000 min  
Lab File: VY006937.D  
Acq: 04 Dec 2021 13:36



Tgt Ion: 91 Resp: 31367

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 54.1  | 39.8  | 74.0  |





#55  
Styrene  
Concen: 0.839 ug/L  
RT: 12.044 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VY006937.D  
Acq: 04 Dec 2021 13:36

Instrument :  
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ClientSampleId :  
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Tgt Ion:104 Resp: 6690  
Ion Ratio Lower Upper  
104 100  
78 44.4 30.8 57.2

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