

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL021319\  
 Data File : VL033186.D  
 Acq On : 13 Feb 2019 13:53  
 Operator : SY/AP  
 Sample : VL0213ABL01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0213ABL01

Manual Integrations  
 APPROVED

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 2/20/2019 12:23:26 PM

Quant Time: Feb 20 07:16:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Feb 20 07:16:01 2019  
 QLast Update : Wed Feb 20 06:00:52 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 977217   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2246978  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2283006  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 2048125  | 11.51    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 115.10% |

| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Qvalue |
|------------------------|------|------|----------|-------|-------|--------|
| 15) Acetone            | 3.93 | 43   | 12936m   | 0.117 | ppbv  |        |
| 20) Methylene Chloride | 4.41 | 84   | 5388m    | 0.123 | ppbv  |        |

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

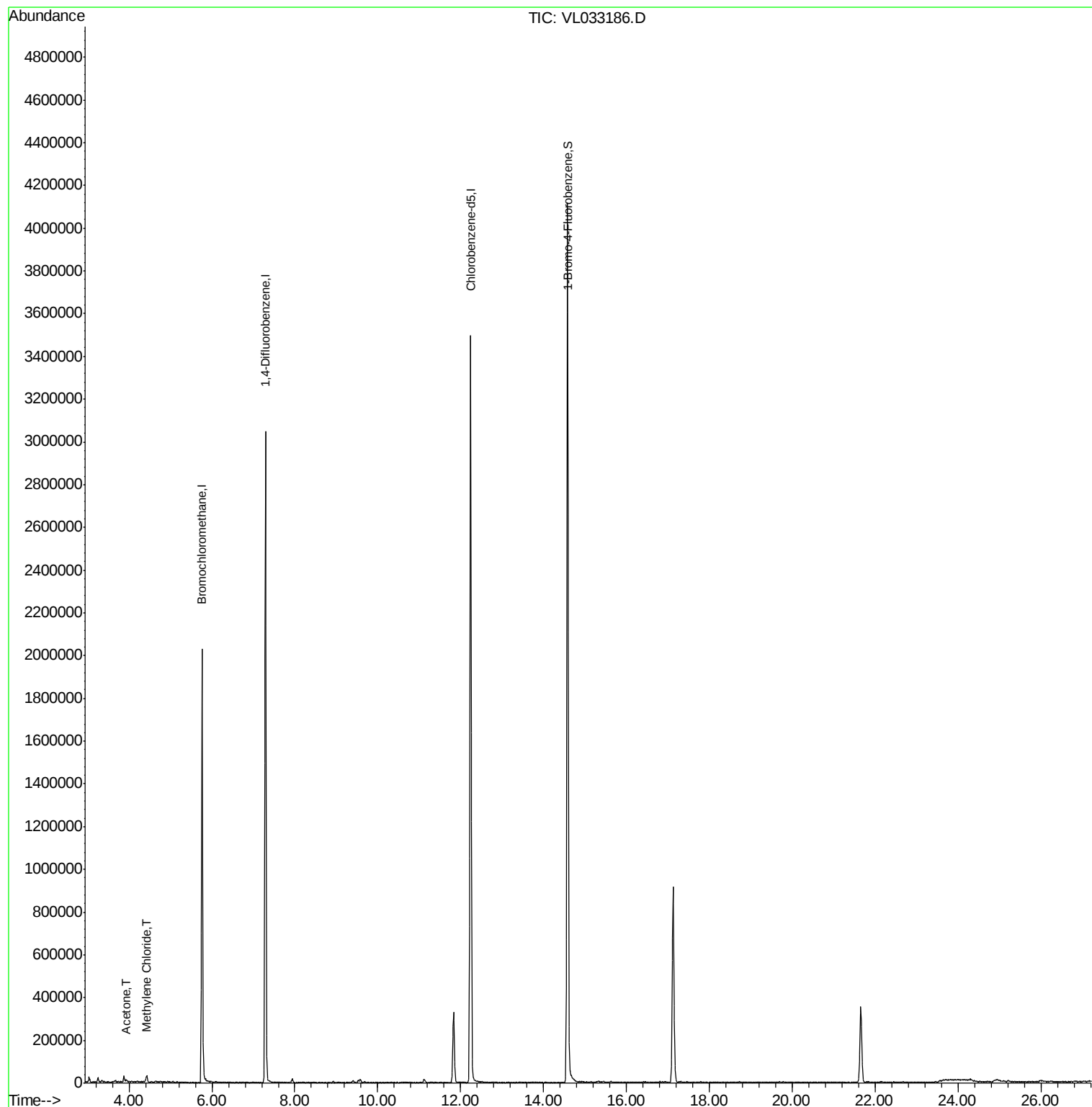
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_L\DATA\VL021319\  
Data File : VL033186.D  
Acq On : 13 Feb 2019 13:53  
Operator : SY/AP  
Sample : VL0213ABL01  
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ALS Vial : 1 Sample Multiplier: 1

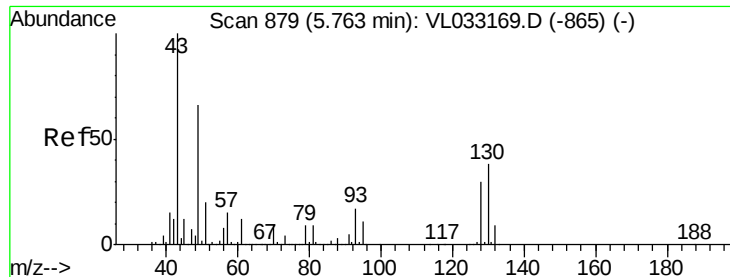
Instrument :  
MSVOA\_L  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_L\METHODS\VL020519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Feb  
QLast Update : Wed Feb 20 06:00:52 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033186.D

Acq: 13 Feb 2019 13:53

Instrument :

MSVOA\_L

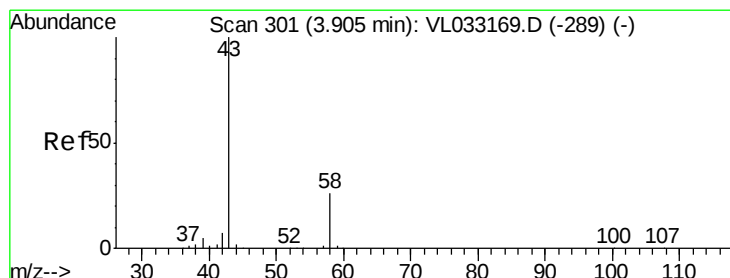
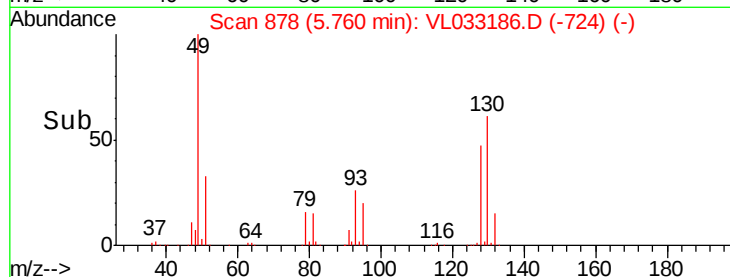
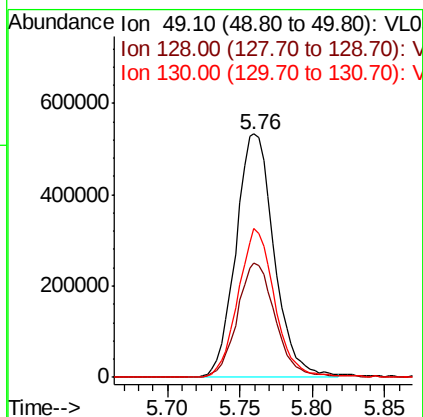
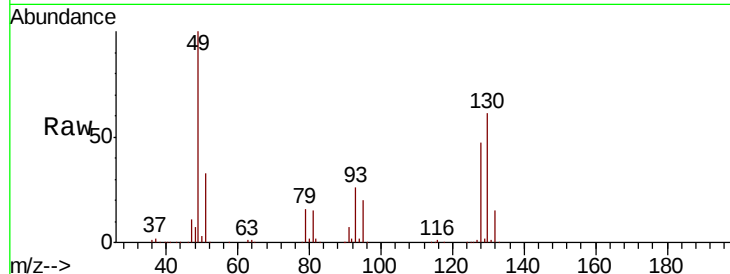
ClientSampleId :

VL0213ABL01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 49    | Resp: | 977217 |
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 128       | 47.0  | 23.6  | 71.0   |
| 130       | 59.2  | 30.3  | 91.0   |

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#15

Acetone

Concen: 0.117 ppbv m

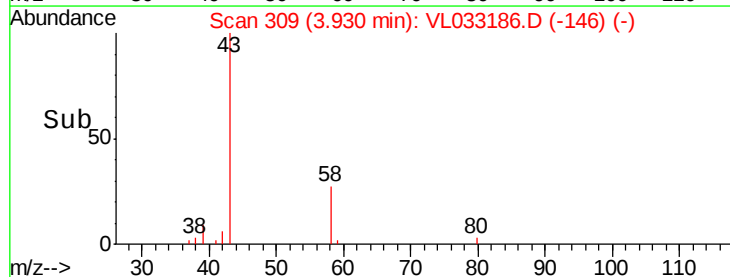
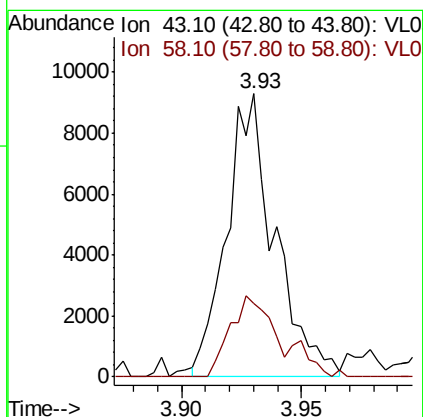
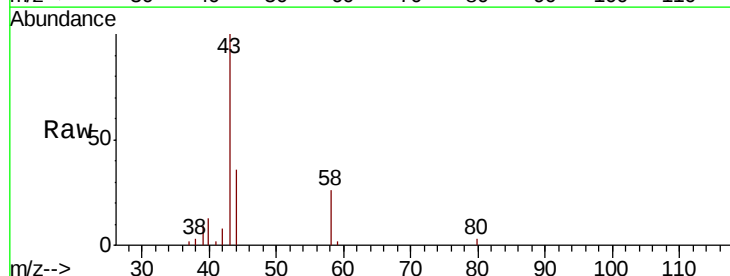
RT: 3.93 min Scan# 309

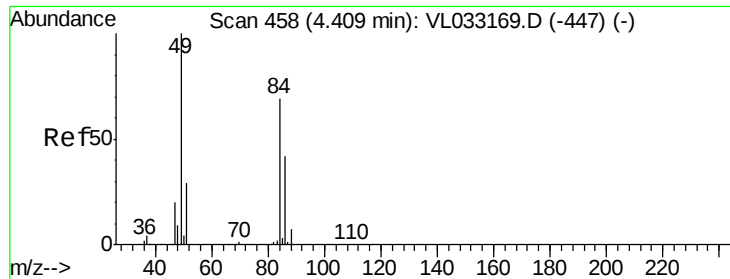
Delta R.T. 0.03 min

Lab File: VL033186.D

Acq: 13 Feb 2019 13:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 12936 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 58        | 0.0   | 21.1  | 31.7# |





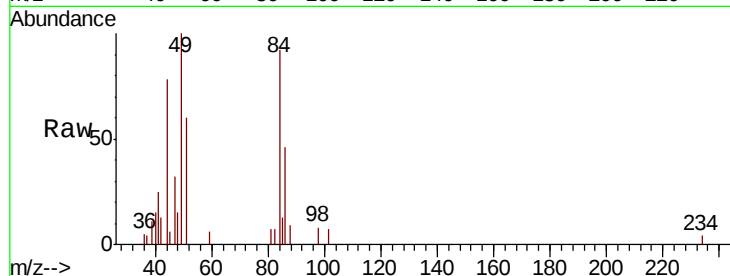
#20  
Methylene Chloride  
Concen: 0.123 ppbv  
RT: 4.41 min Scan# 457  
Delta R.T. -0.00 min  
Lab File: VL033186.D  
Acq: 13 Feb 2019 13:53

Instrument :  
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VL0213ABL01

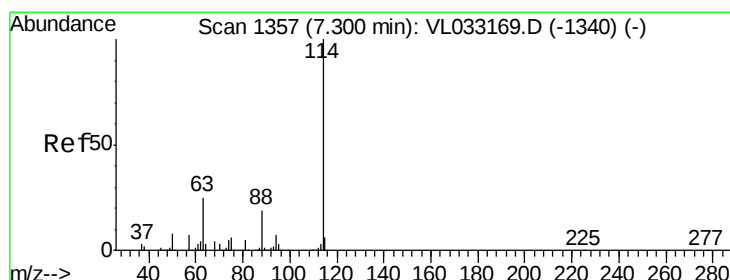
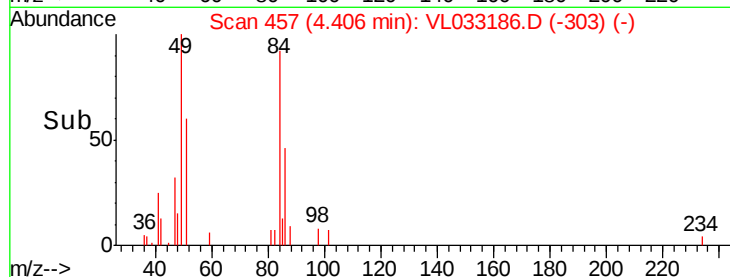
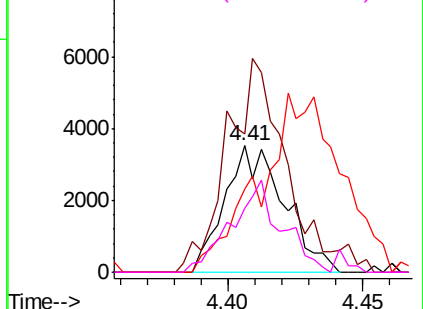
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 109.2 | 115.8 | 173.8# |
| 51      | 65.6  | 33.0  | 49.6#  |
| 86      | 50.8  | 48.2  | 72.2   |

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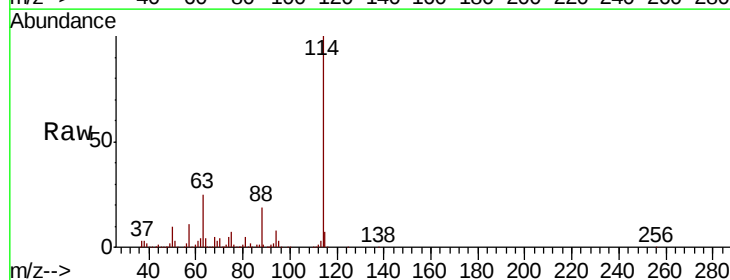


Abundance Ion 84.00 (83.70 to 84.70): VL0  
Ion 49.10 (48.80 to 49.80): VL0  
Ion 51.10 (50.80 to 51.80): VL0  
Ion 86.00 (85.70 to 86.70): VL0

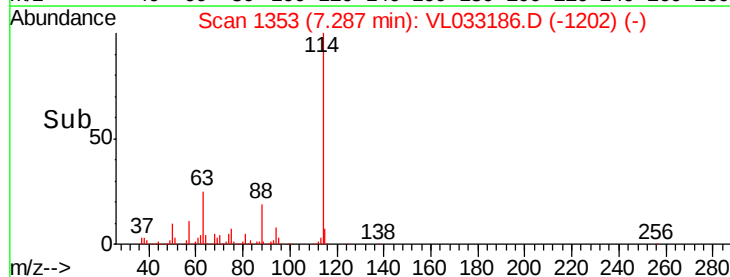
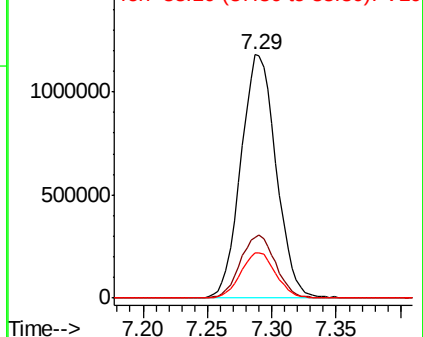


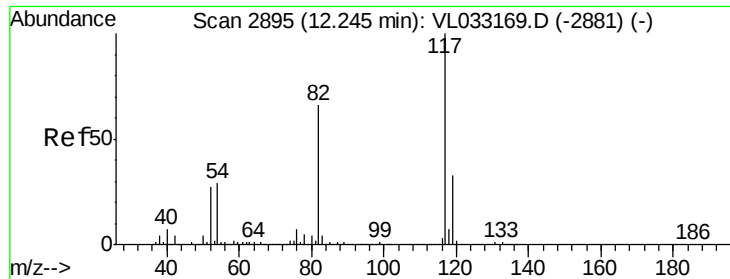
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.29 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: VL033186.D  
Acq: 13 Feb 2019 13:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.9  | 20.8  | 31.2  |
| 88      | 18.4  | 14.6  | 22.0  |



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0





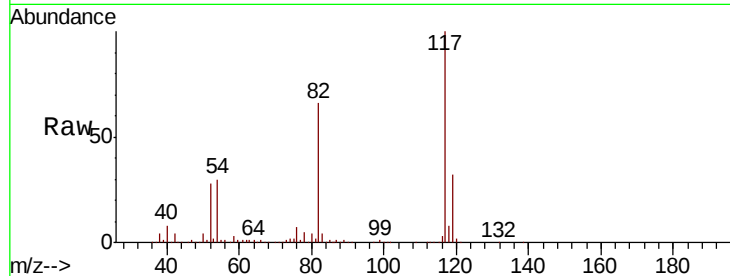
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.24 min Scan# 2893  
Delta R.T. -0.01 min  
Lab File: VL033186.D  
Acq: 13 Feb 2019 13:53

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0213ABL01

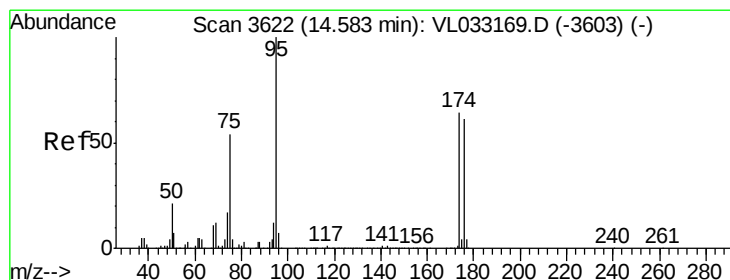
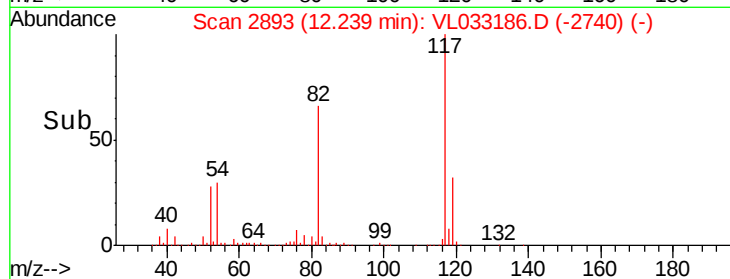
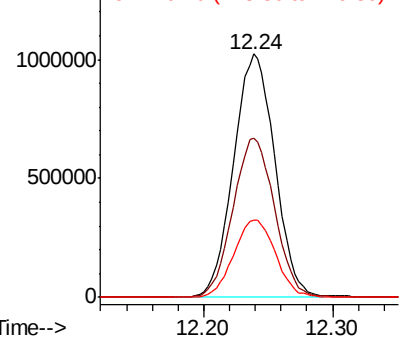
Tgt Ion: 117 Resp: 2283006  
Ion Ratio Lower Upper  
117 100  
82 66.4 53.8 80.8  
119 32.4 46.9 70.3#

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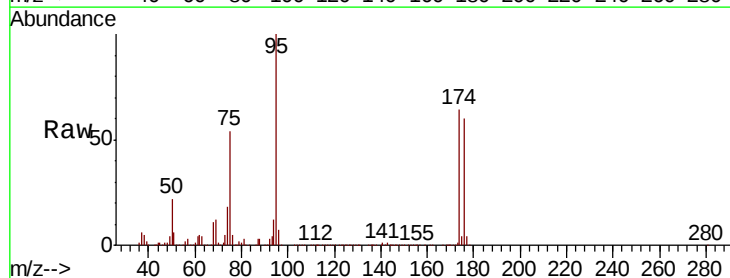


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V



#68  
1-Bromo-4-Fluorobenzene  
Concen: 11.512 ppbv  
RT: 14.58 min Scan# 3620  
Delta R.T. -0.01 min  
Lab File: VL033186.D  
Acq: 13 Feb 2019 13:53

Tgt Ion: 95 Resp: 2048125  
Ion Ratio Lower Upper  
95 100  
174 64.5 51.1 76.7  
175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0  
Ion 174.00 (173.70 to 174.70): V  
Ion 175.00 (174.70 to 175.70): V

