

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040921\  
 Data File : VL036780.D  
 Acq On : 9 Apr 2021 18:48  
 Operator : SY/AP  
 Sample : M1987-03DL 10X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 GOI-AA(2021)DL

Manual Integrations  
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 4/12/2021 5:42:55 PM

Quant Time: Apr 10 07:28:51 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar 25 2021  
 QLast Update : Thu Mar 25 09:42:40 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1292683  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 3150838  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2530563  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1612165  | 7.99     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 79.90% |

| Target Compounds       | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|------------------------|------|------|----------|-------|--------|--------|
| 9) Propene             | 3.02 | 41   | 44519    | 0.578 | ppbv # | 77     |
| 13) Ethanol            | 3.64 | 45   | 17705m   | 1.931 | ppbv   |        |
| 15) Acetone            | 3.86 | 43   | 78348m   | 0.616 | ppbv   |        |
| 20) Methylene Chloride | 4.34 | 84   | 21547    | 0.362 | ppbv # | 87     |
| 26) Hexane             | 5.68 | 57   | 18608m   | 0.133 | ppbv   |        |

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

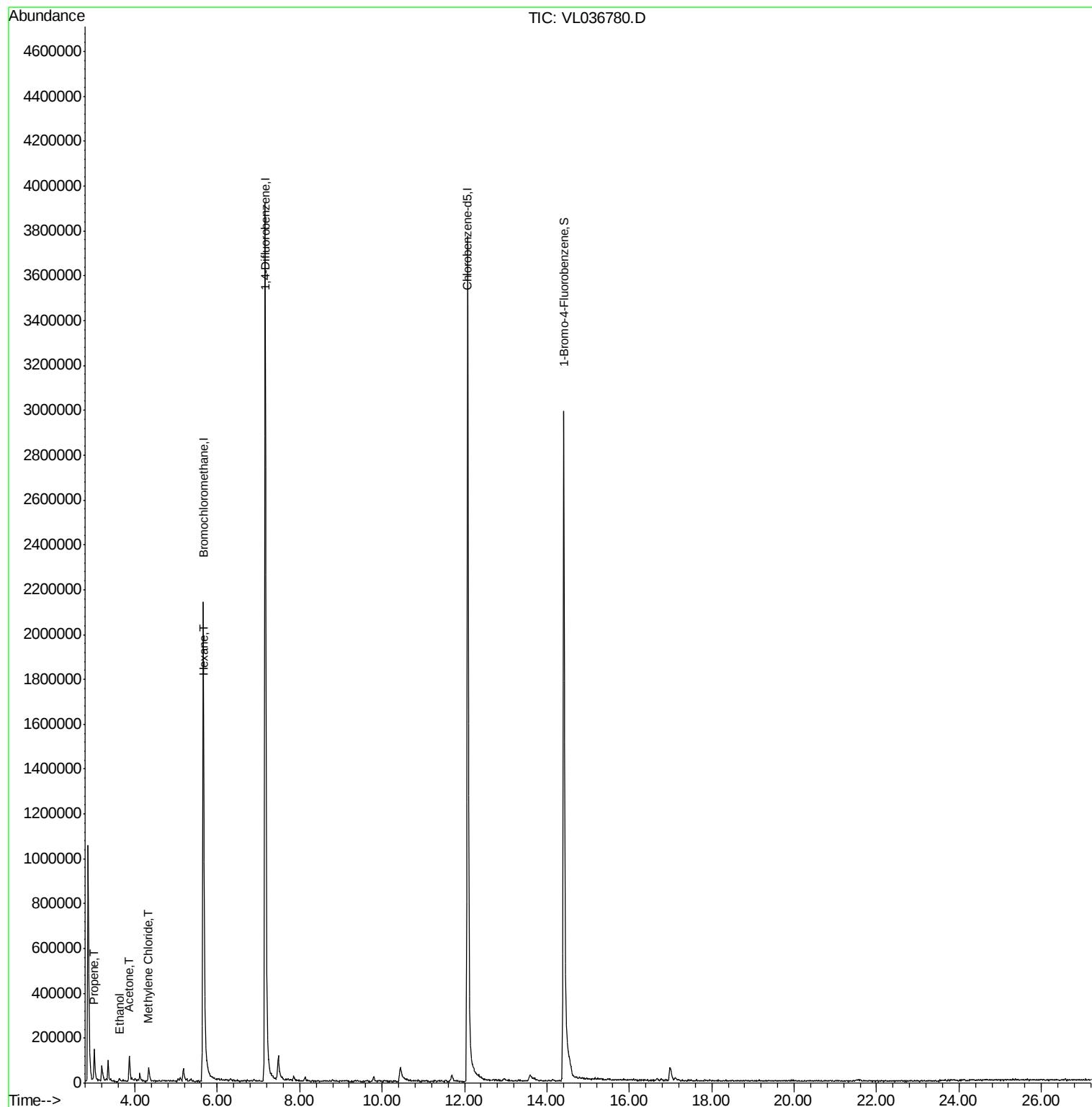
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040921\  
Data File : VL036780.D  
Acq On : 9 Apr 2021 18:48  
Operator : SY/AP  
Sample : M1987-03DL 10X  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

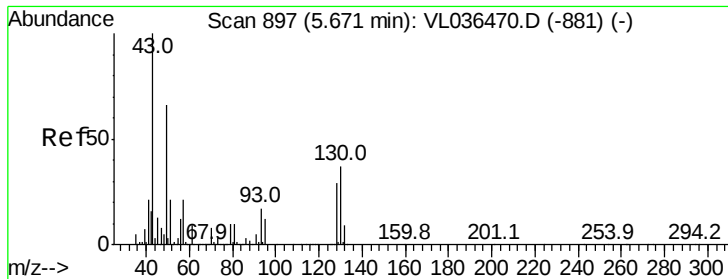
Instrument :  
MSVOA\_L  
ClientSampleId :  
GOI-AA(2021)DL

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Quant Time: Apr 10 07:28:51 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Mar  
QLast Update : Thu Mar 25 09:42:40 2021  
Response via : Initial Calibration





#1

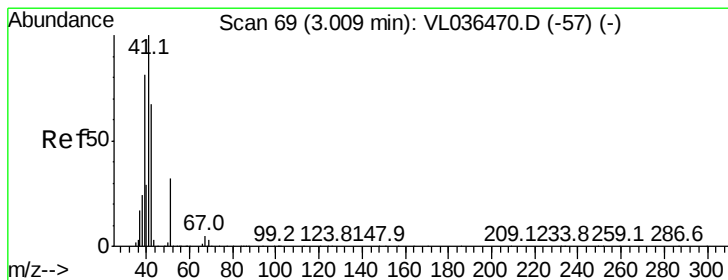
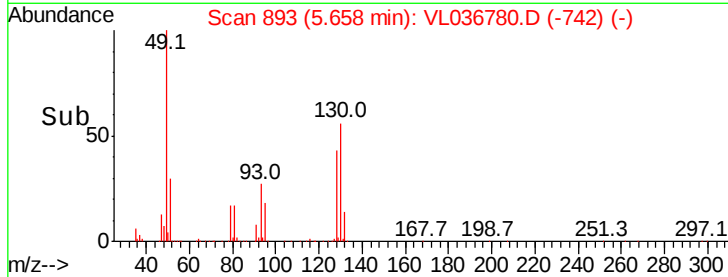
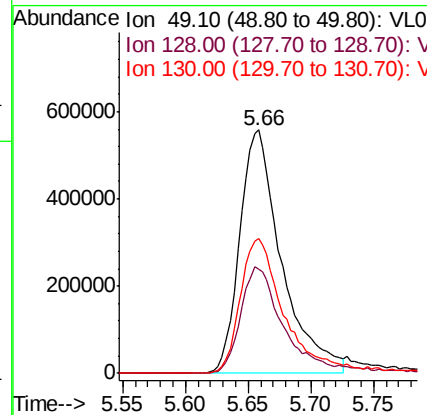
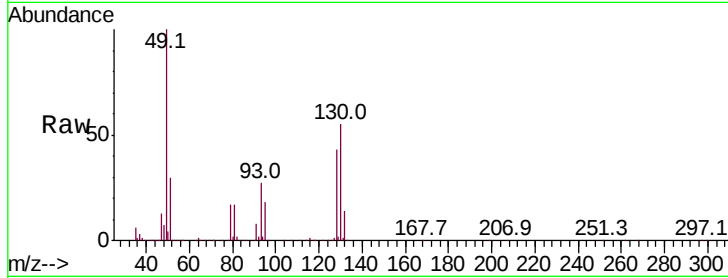
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.66 min Scan# 893  
 Delta R.T. -0.01 min  
 Lab File: VL036780.D  
 Acq: 9 Apr 2021 18:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 GOI-AA(2021)DL

Tot Ion: 49 Resp: 1292683  
 Ion Ratio Lower Upper  
 49 100  
 128 47.5 23.5 70.6  
 130 59.3 29.1 87.4

Manual Integrations  
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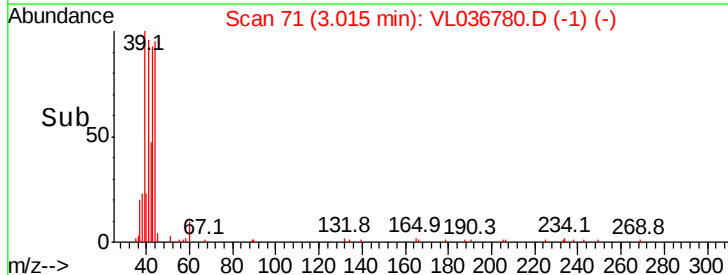
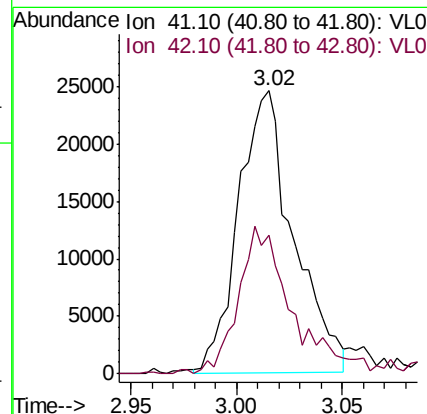
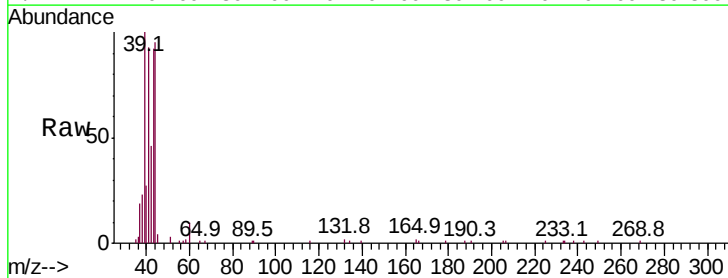
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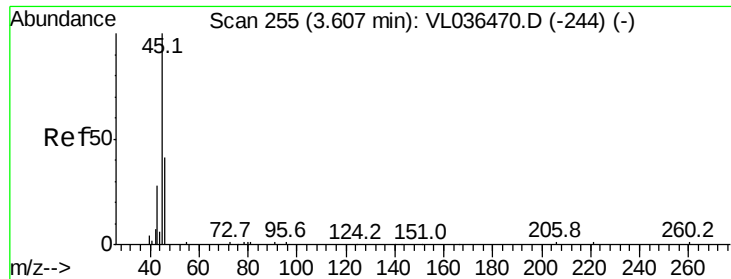


#9

Propene  
 Concen: 0.578 ppbv  
 RT: 3.02 min Scan# 71  
 Delta R.T. 0.01 min  
 Lab File: VL036780.D  
 Acq: 9 Apr 2021 18:48

Tgt Ion: 41 Resp: 44519  
 Ion Ratio Lower Upper  
 41 100  
 42 52.1 57.0 85.4#





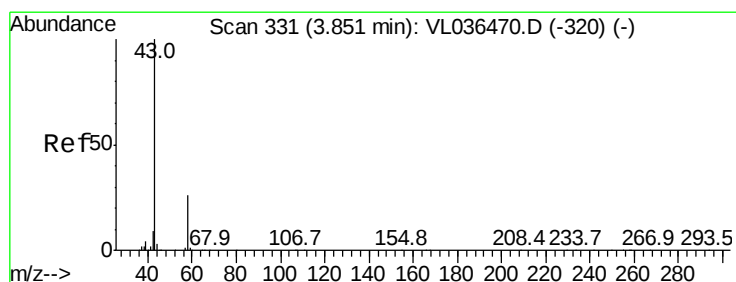
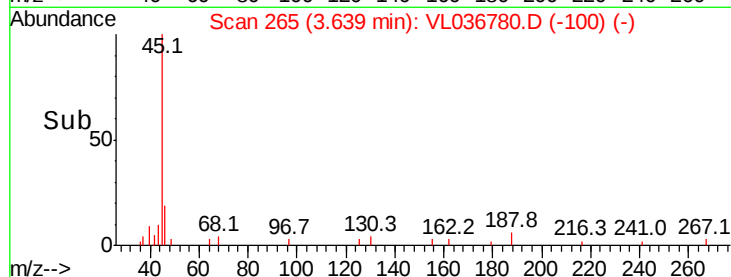
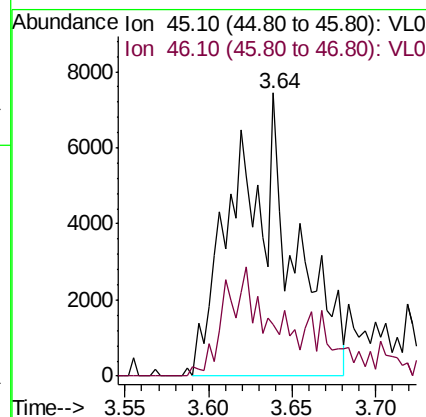
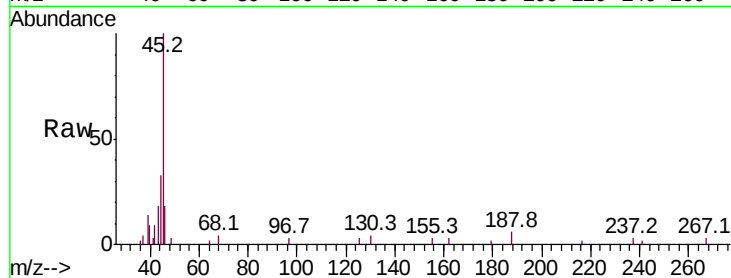
#13  
Ethanol  
Concen: 1.931 ppbv m  
RT: 3.64 min Scan# 265  
Delta R.T. 0.03 min  
Lab File: VL036780.D  
Acq: 9 Apr 2021 18:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
GOI-AA(2021)DL

Tot Ion: 45 Resp: 17705  
Ion Ratio Lower Upper  
45 100  
46 0.0 16.6 66.2#

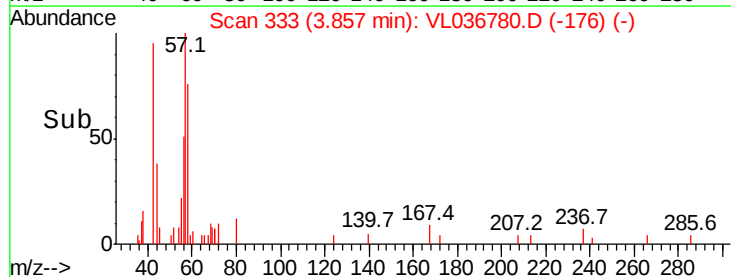
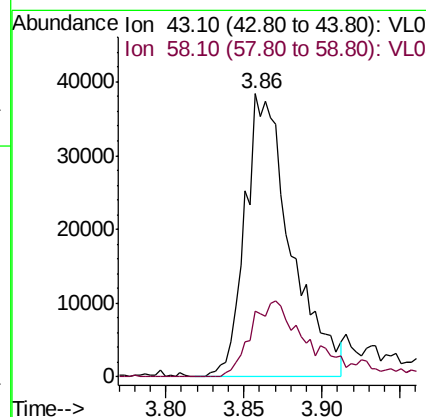
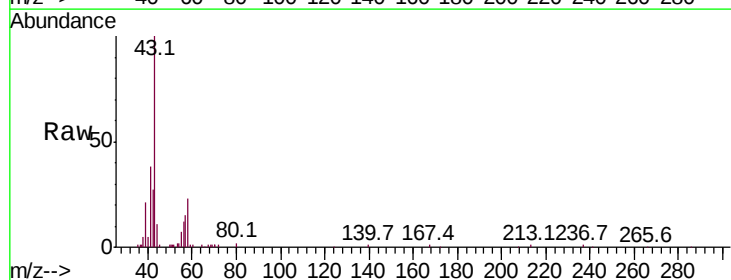
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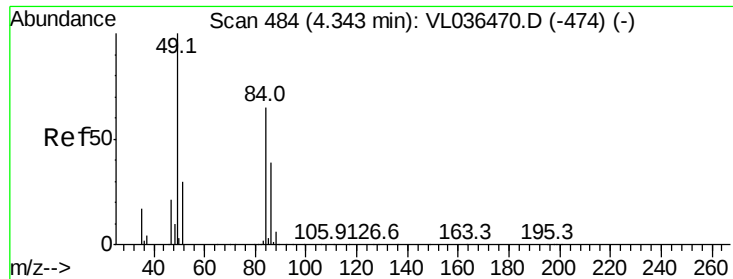
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#15  
Acetone  
Concen: 0.616 ppbv m  
RT: 3.86 min Scan# 333  
Delta R.T. 0.01 min  
Lab File: VL036780.D  
Acq: 9 Apr 2021 18:48

Tgt Ion: 43 Resp: 78348  
Ion Ratio Lower Upper  
43 100  
58 0.0 21.2 31.8#





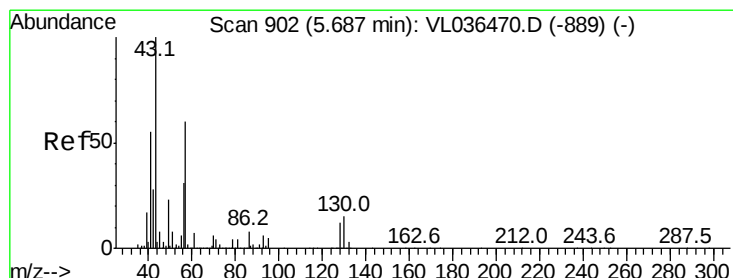
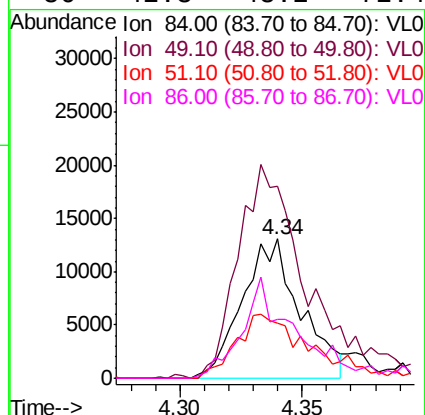
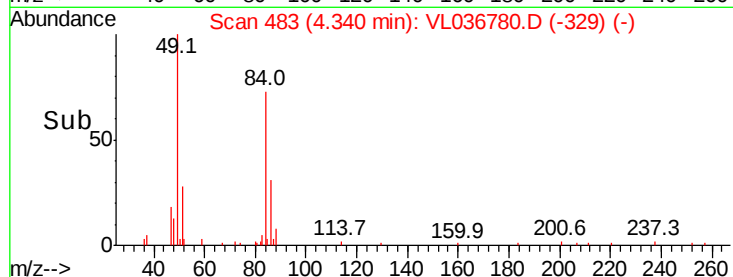
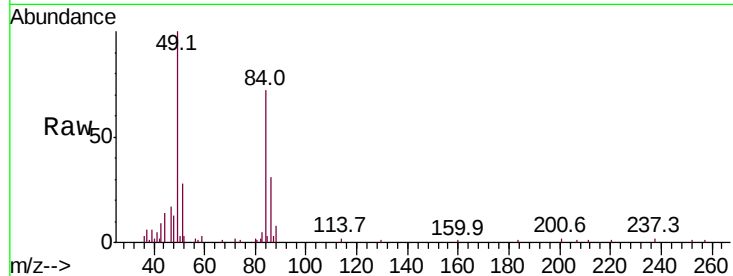
#20  
Methylene Chloride  
Concen: 0.362 ppbv  
RT: 4.34 min Scan# 483  
Delta R.T. -0.00 min  
Lab File: VL036780.D  
Acq: 9 Apr 2021 18:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
GOI-AA(2021)DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 21547 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 138.5 | 122.9 | 184.3 |
| 51       | 42.6  | 36.9  | 55.3  |
| 86       | 42.3  | 48.2  | 72.4# |

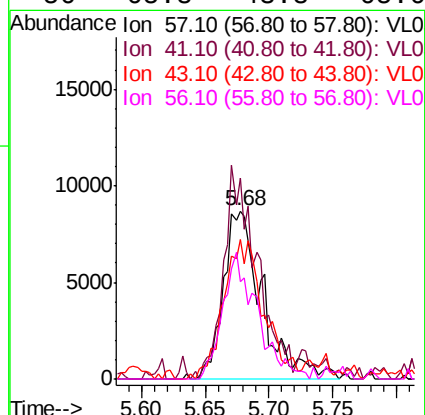
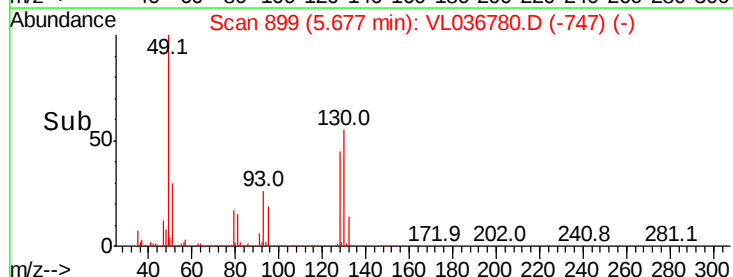
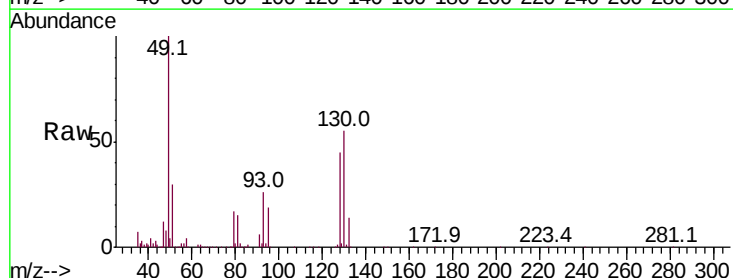
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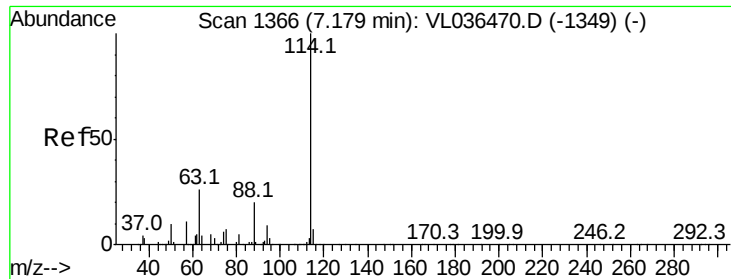
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#26  
Hexane  
Concen: 0.133 ppbv m  
RT: 5.68 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VL036780.D  
Acq: 9 Apr 2021 18:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 18608  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 0.0   | 77.2  | 115.8# |
| 43       | 85.5  | 173.8 | 260.6# |
| 56       | 65.8  | 43.8  | 65.6#  |





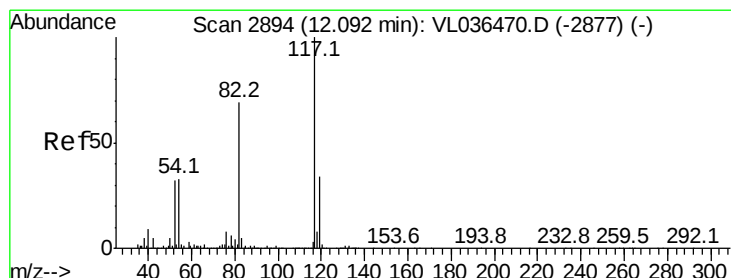
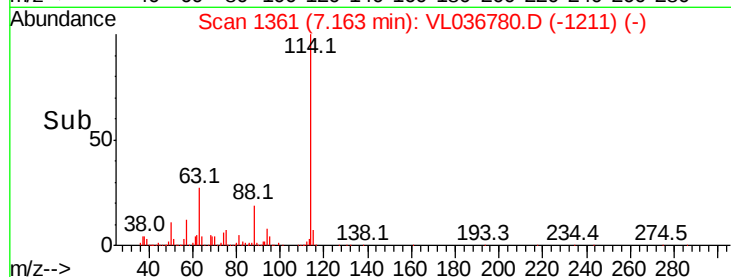
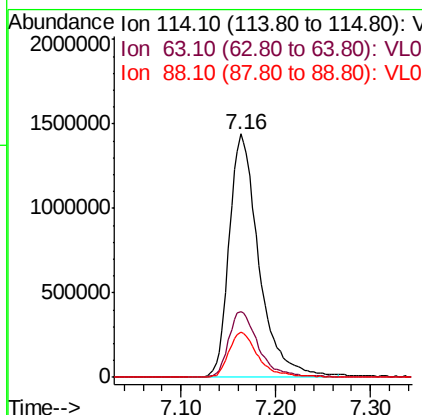
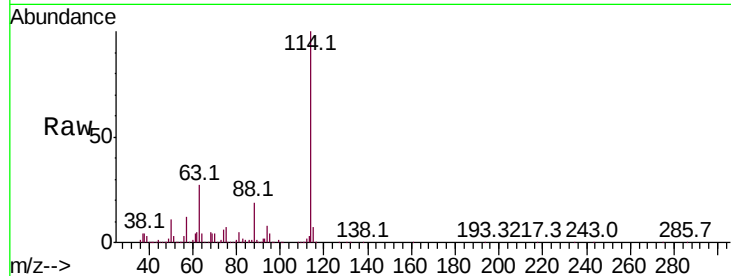
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.16 min Scan# 1361  
 Delta R.T. -0.02 min  
 Lab File: VL036780.D  
 Acq: 9 Apr 2021 18:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 GOI-AA(2021)DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.8  | 22.4  | 33.6  |
| 88      | 18.8  | 15.4  | 23.0  |

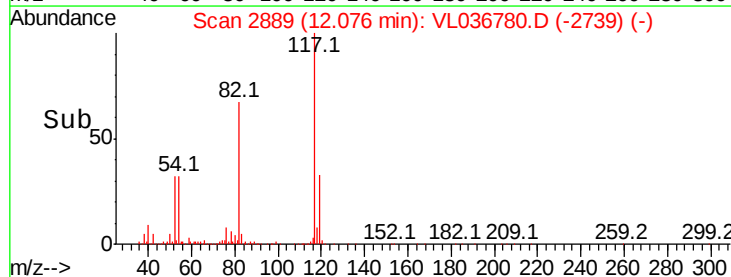
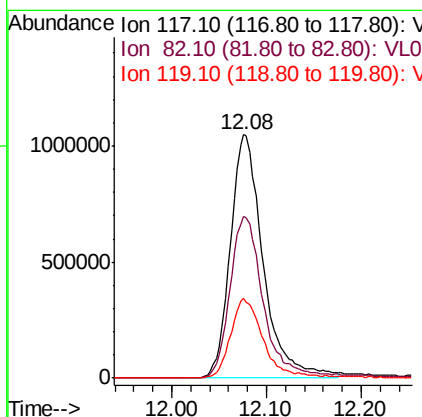
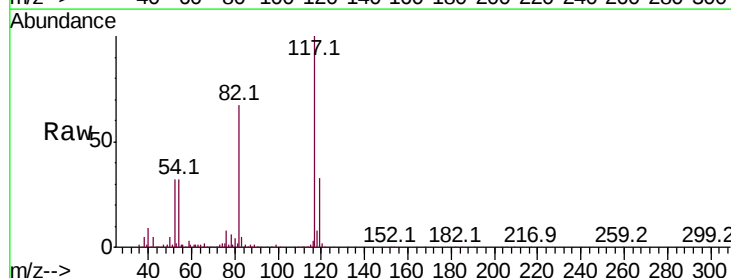
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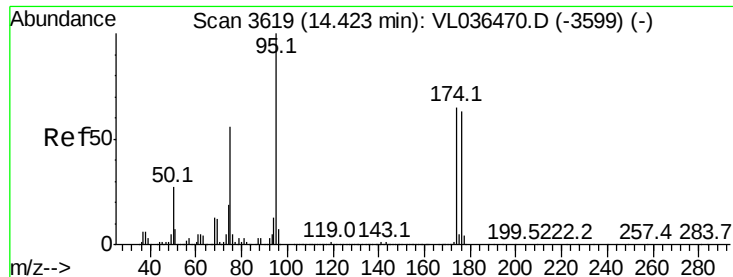
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.08 min Scan# 2889  
 Delta R.T. -0.02 min  
 Lab File: VL036780.D  
 Acq: 9 Apr 2021 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 67.8  | 57.4  | 86.0  |
| 119     | 33.3  | 47.4  | 71.0# |





#68

1-Bromo-4-Fluorobenzene

Concen: 7.993 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL036780.D

Acq: 9 Apr 2021 18:48

Instrument :

MSVOA\_L

ClientSampleId :

GOI-AA(2021)DL

Tot Ion: 95 Resp: 1612165

Ion Ratio Lower Upper

95 100

174 67.3 51.0 76.6

175 4.9 3.9 5.9

Manual Integrations

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