

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052919\  
 Data File : VL033849.D  
 Acq On : 30 May 2019 00:11  
 Operator : SY/AP  
 Sample : K3067-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-20190523-ODL

Manual Integrations  
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 5/31/2019 12:45:35 PM

Quant Time: May 30 02:48:58 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri May 1  
 QLast Update : Fri May 17 08:15:41 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.75  | 49   | 750707   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 1672011  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.23 | 117  | 1665427  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1373363  | 10.17    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.70% |

| Target Compounds       | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|------------------------|-------|------|----------|-------|-------|--------|
| 13) Ethanol            | 3.65  | 45   | 24024m   | 2.032 | ppbv  |        |
| 15) Acetone            | 3.90  | 43   | 68326    | 0.656 | ppbv  | 98     |
| 19) Isopropyl Alcohol  | 4.04  | 45   | 26572m   | 0.396 | ppbv  |        |
| 20) Methylene Chloride | 4.41  | 84   | 6128m    | 0.153 | ppbv  |        |
| 26) Hexane             | 5.78  | 57   | 9337m    | 0.119 | ppbv  |        |
| 29) Chloroform         | 5.84  | 83   | 15290m   | 0.106 | ppbv  |        |
| 34) 2-Butanone         | 5.34  | 43   | 11837m   | 0.114 | ppbv  |        |
| 52) Tetrachloroethene  | 11.36 | 164  | 12848m   | 0.240 | ppbv  |        |

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

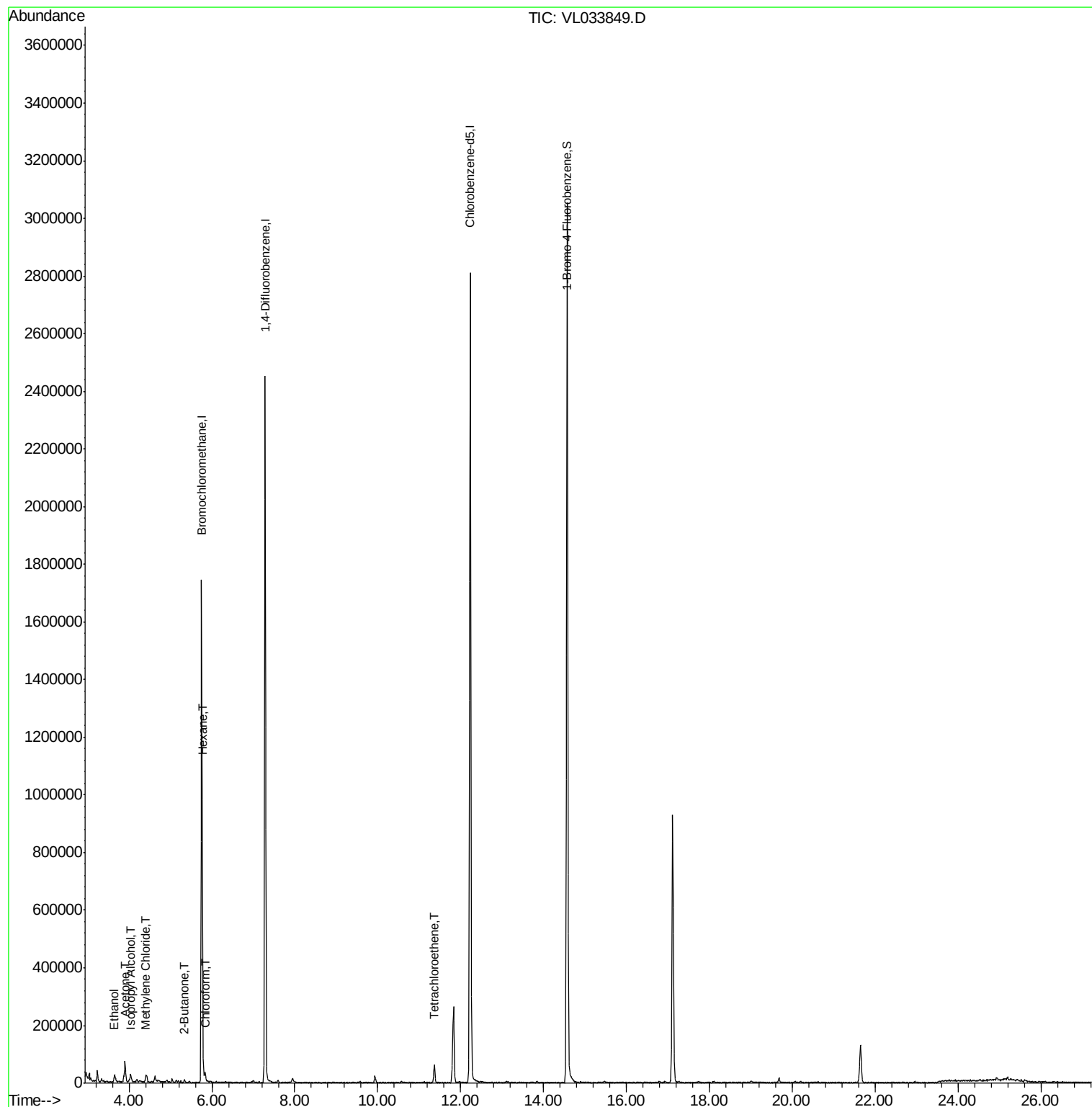
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052919\  
Data File : VL033849.D  
Acq On : 30 May 2019 00:11  
Operator : SY/AP  
Sample : K3067-03DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

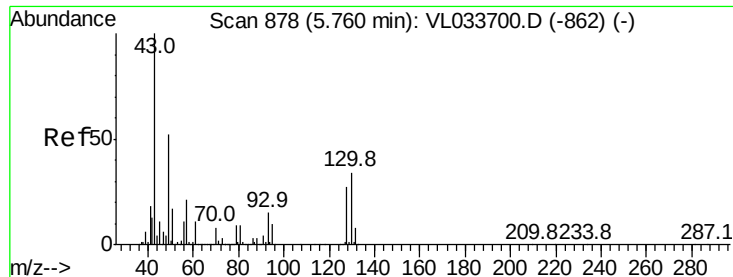
Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-20190523-ODL

Manual Integrations  
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Quant Time: May 30 02:48:58 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri May  
QLast Update : Fri May 17 08:15:41 2019  
Response via : Initial Calibration





#1

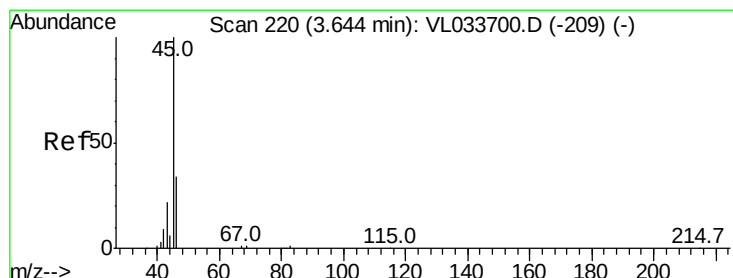
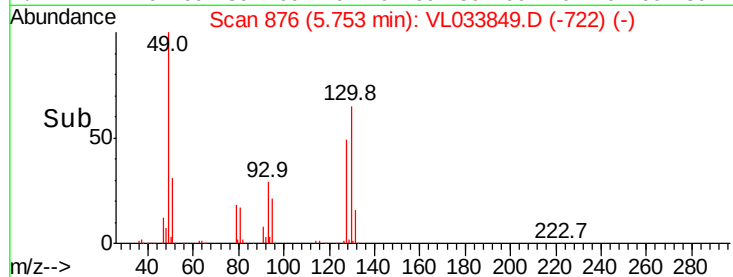
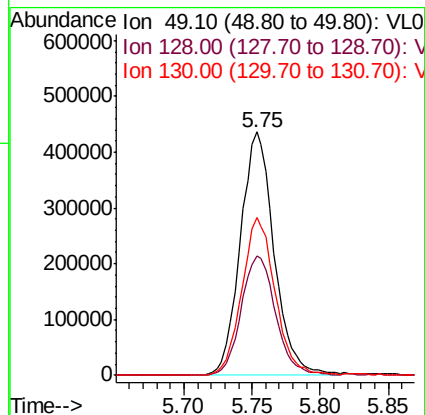
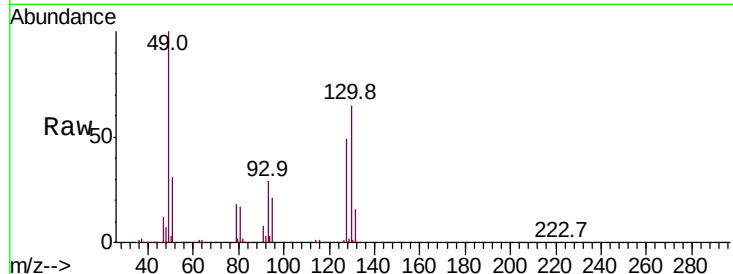
Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.75 min Scan# 876  
 Delta R.T. -0.01 min  
 Lab File: VL033849.D  
 Acq: 30 May 2019 00:11

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SG-6-20190523-0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 128     | 50.0  | 25.2  | 75.6  |
| 130     | 64.9  | 32.5  | 97.5  |

Manual Integrations  
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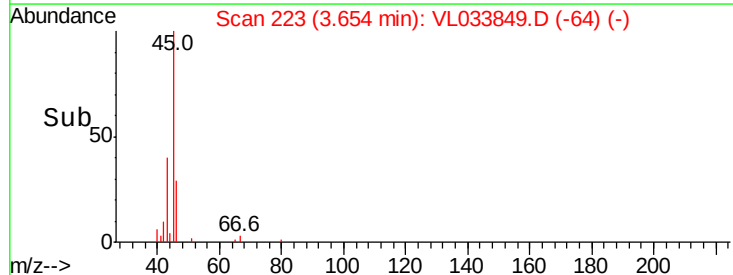
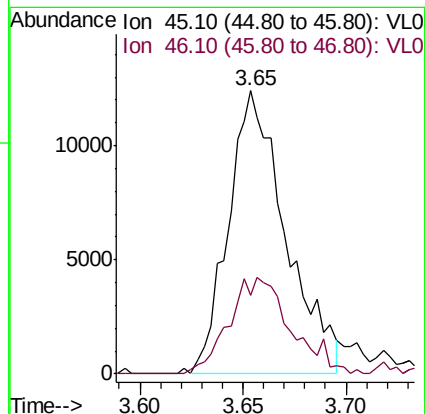
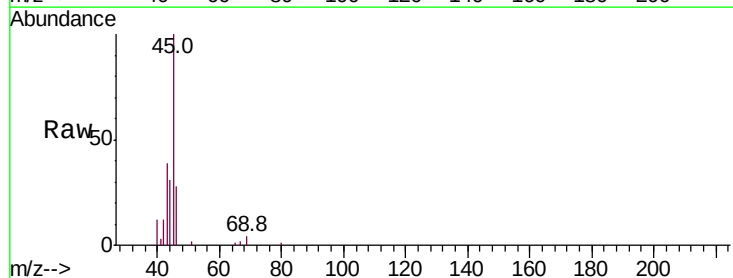
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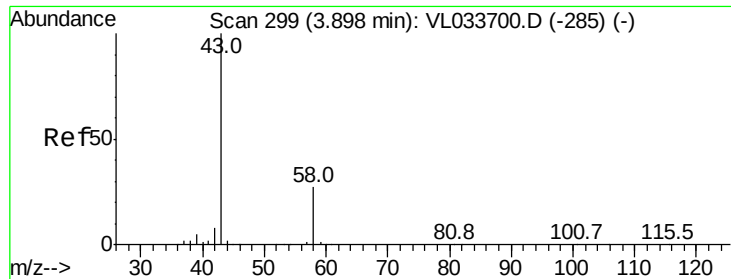


#13

Ethanol  
 Concen: 2.032 ppbv m  
 RT: 3.65 min Scan# 223  
 Delta R.T. 0.01 min  
 Lab File: VL033849.D  
 Acq: 30 May 2019 00:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 36.7  | 14.8  | 59.0  |





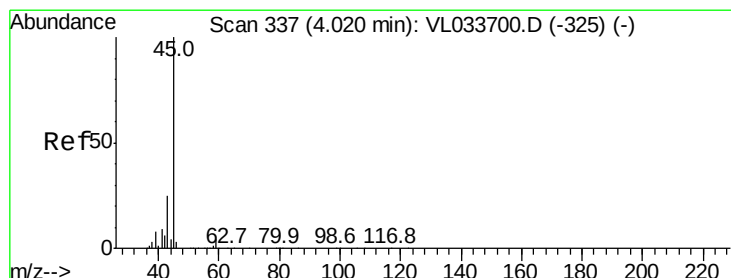
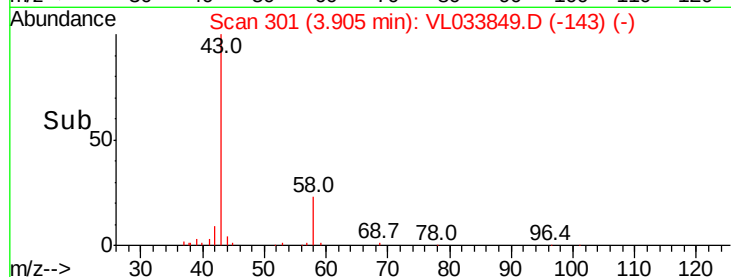
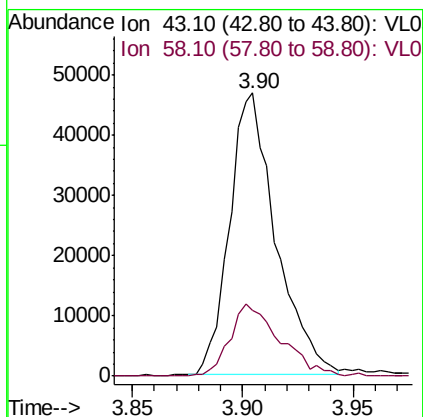
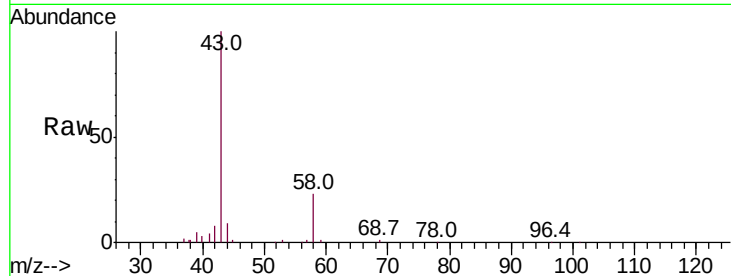
#15  
Acetone  
Concen: 0.656 ppbv  
RT: 3.90 min Scan# 301  
Delta R.T. 0.01 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-20190523-ODL

Tot Ion: 43 Resp: 68326  
Ion Ratio Lower Upper  
43 100  
58 27.8 21.3 31.9

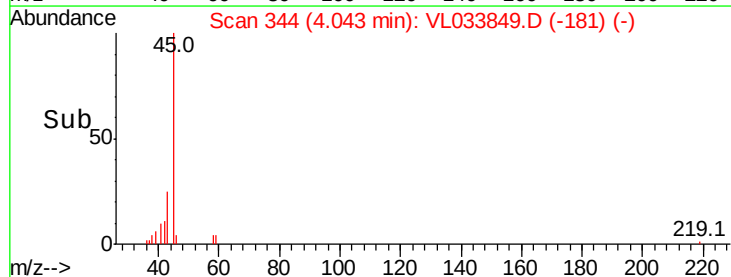
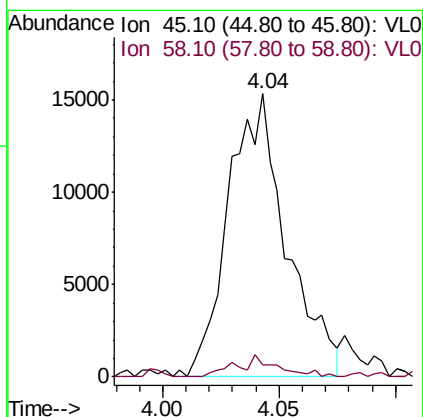
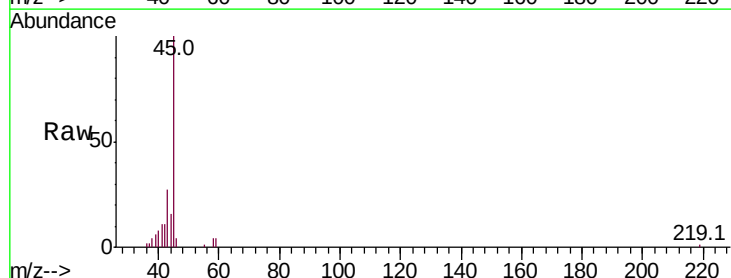
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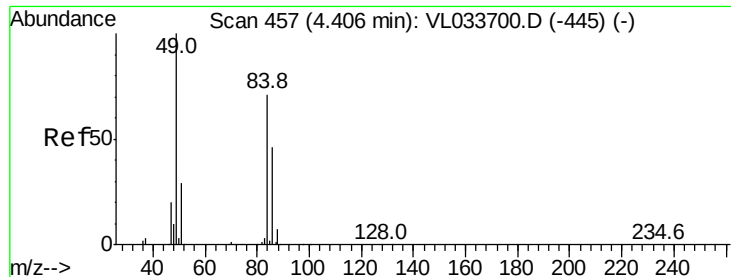
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#19  
Isopropyl Alcohol  
Concen: 0.396 ppbv m  
RT: 4.04 min Scan# 344  
Delta R.T. 0.02 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Tgt Ion: 45 Resp: 26572  
Ion Ratio Lower Upper  
45 100  
58 5.4 1.6 2.4#





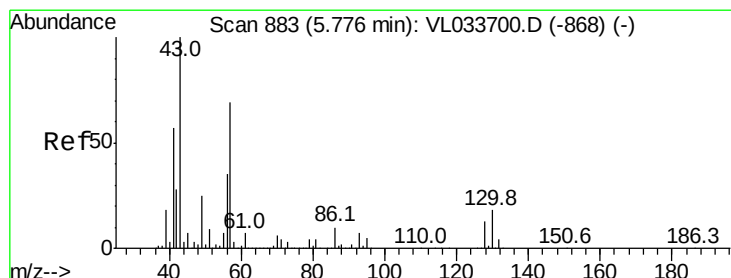
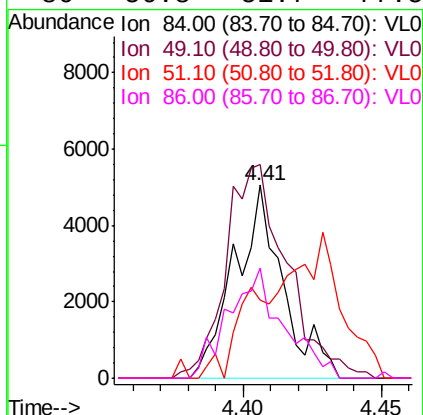
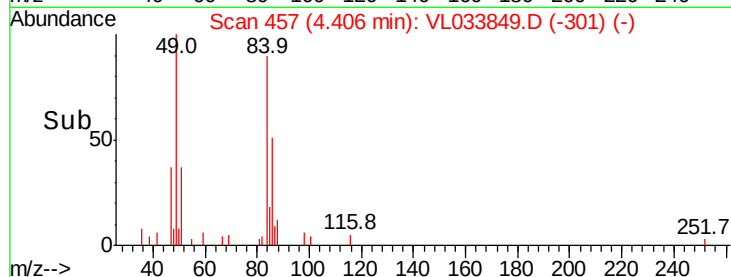
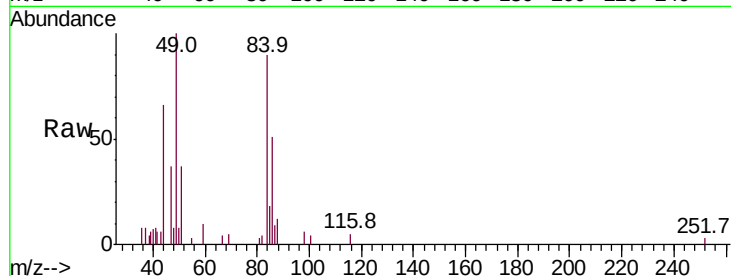
#20  
Methylene Chloride  
Concen: 0.153 ppbv m  
RT: 4.41 min Scan# 457  
Delta R.T. 0.00 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-20190523-0DL

Tot Ion: 84 Resp: 6128  
Ion Ratio Lower Upper  
84 100  
49 110.8 112.8 169.2#  
51 40.5 33.4 50.0  
86 56.8 51.7 77.5

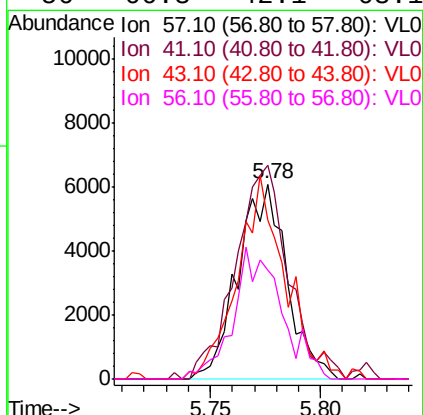
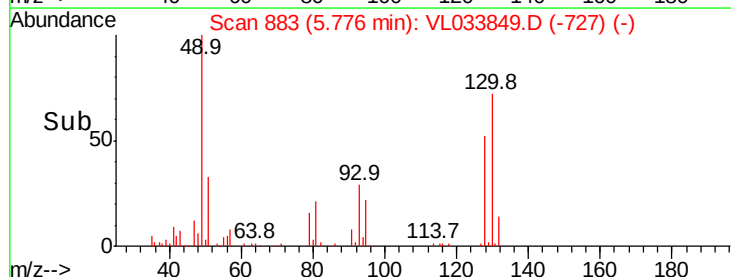
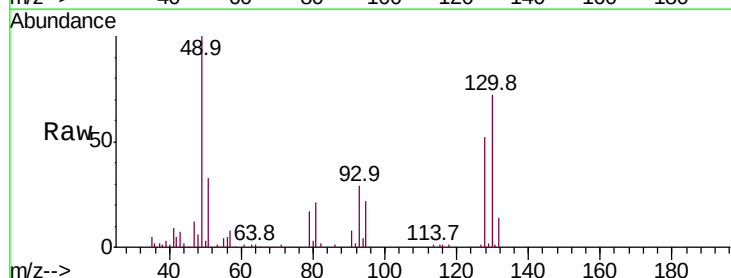
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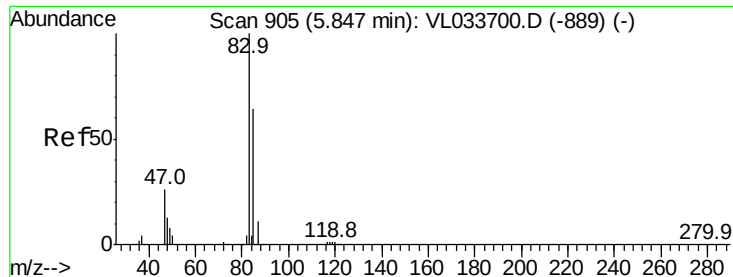
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#26  
Hexane  
Concen: 0.119 ppbv m  
RT: 5.78 min Scan# 883  
Delta R.T. 0.00 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Tgt Ion: 57 Resp: 9337  
Ion Ratio Lower Upper  
57 100  
41 0.0 69.8 104.6#  
43 0.0 181.8 272.6#  
56 66.3 42.1 63.1#





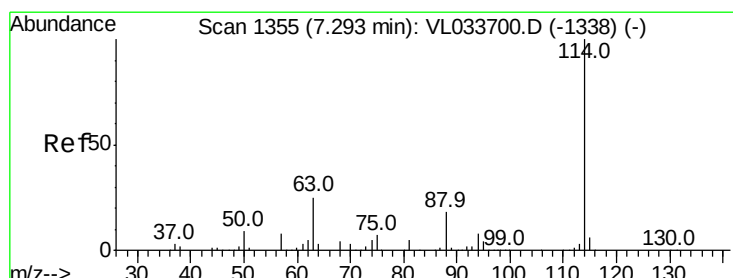
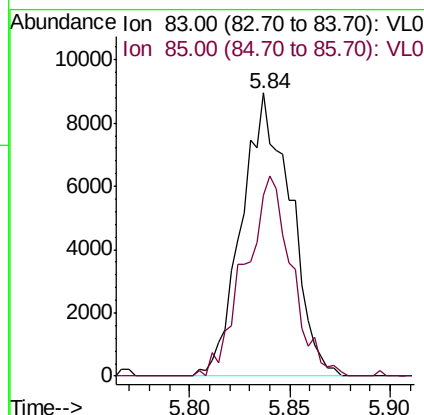
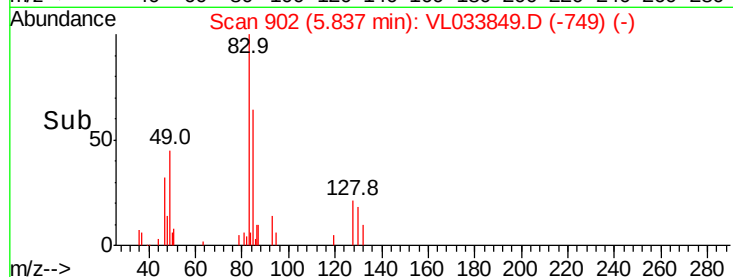
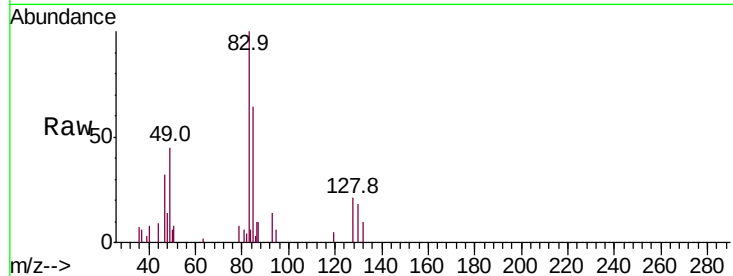
#29  
Chloroform  
Concen: 0.106 ppbv m  
RT: 5.84 min Scan# 902  
Delta R.T. -0.01 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-20190523-ODL

Tot Ion: 83 Resp: 15290  
Ion Ratio Lower Upper  
83 100  
85 64.2 51.5 77.3

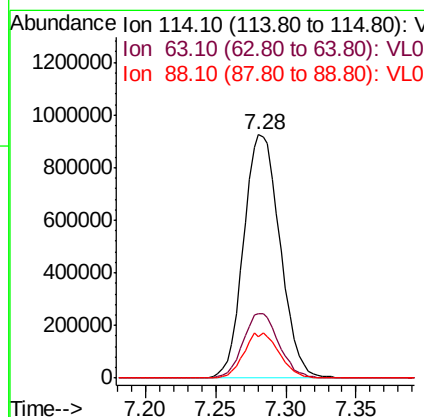
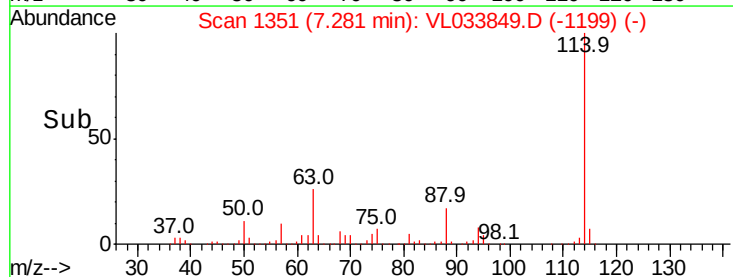
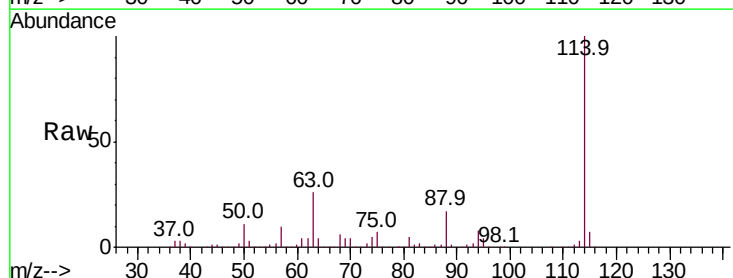
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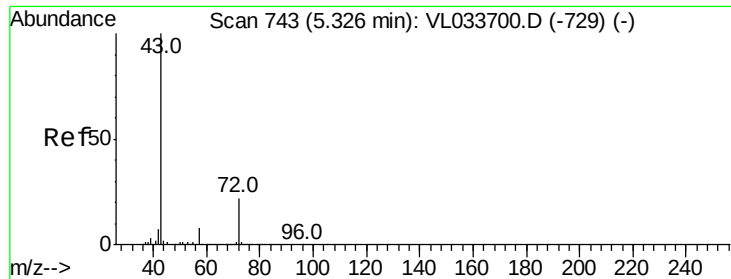
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#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.28 min Scan# 1351  
Delta R.T. -0.01 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Tgt Ion: 114 Resp: 1672011  
Ion Ratio Lower Upper  
114 100  
63 26.3 20.9 31.3  
88 18.0 14.3 21.5





#34

2-Butanone

Concen: 0.114 ppbv m

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033849.D

Acq: 30 May 2019 00:11

Instrument :

MSVOA\_L

ClientSampleId :

SG-6-20190523-0DL

Tot Ion: 43 Resp: 11837

Ion Ratio Lower Upper

43 100

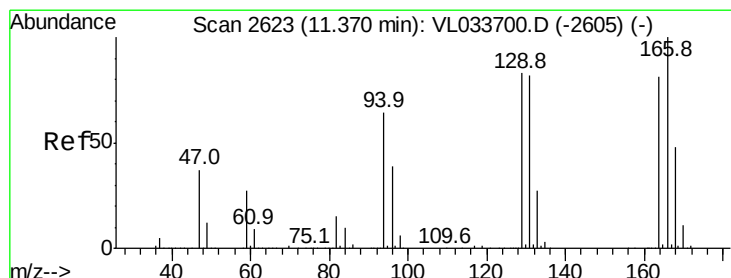
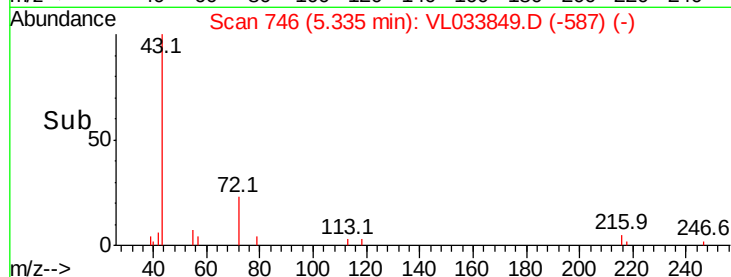
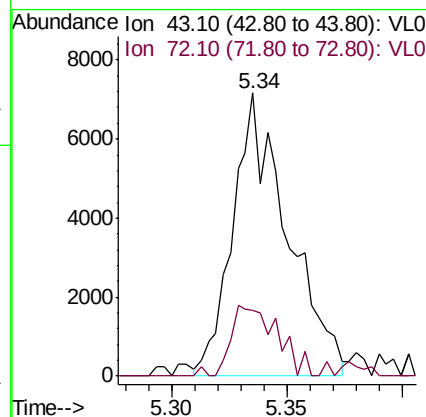
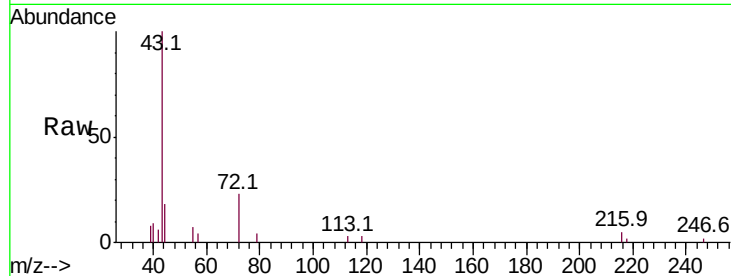
72 0.0 17.8 26.6#

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#52

Tetrachloroethene

Concen: 0.240 ppbv m

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033849.D

Acq: 30 May 2019 00:11

Tgt Ion: 164 Resp: 12848

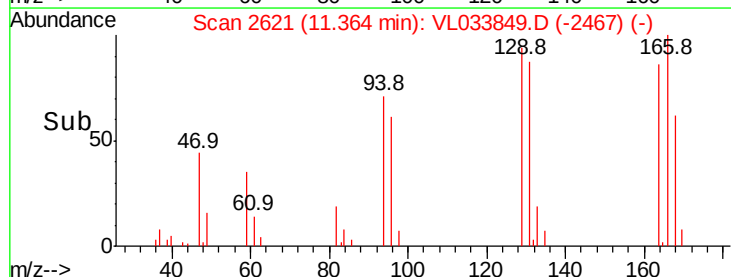
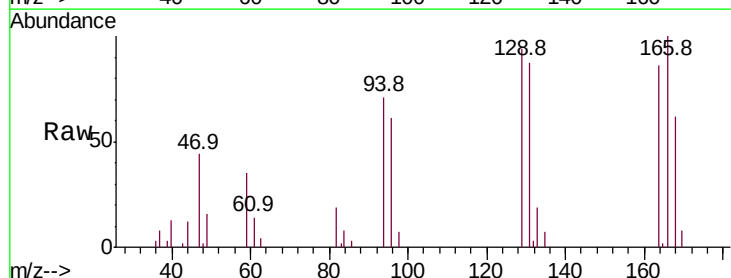
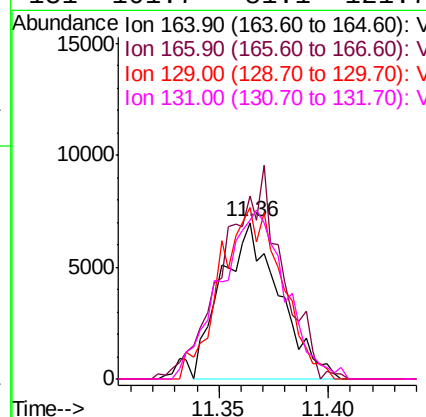
Ion Ratio Lower Upper

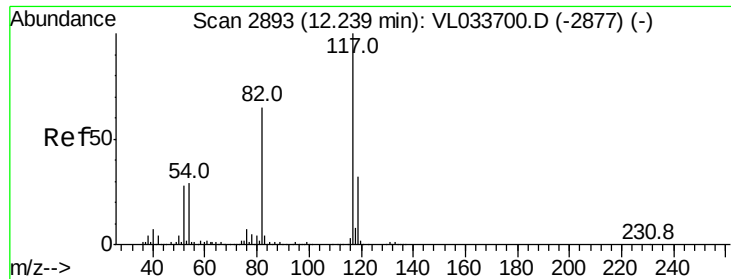
164 100

166 116.7 98.9 148.3

129 109.5 81.8 122.6

131 101.7 81.1 121.7





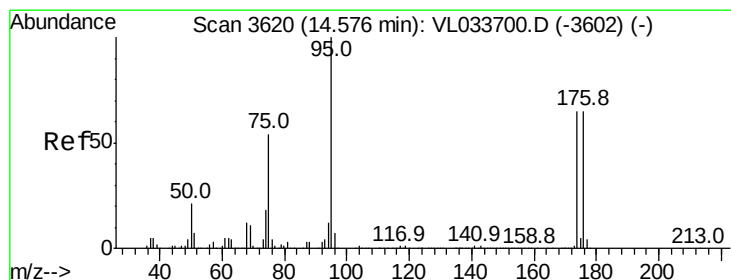
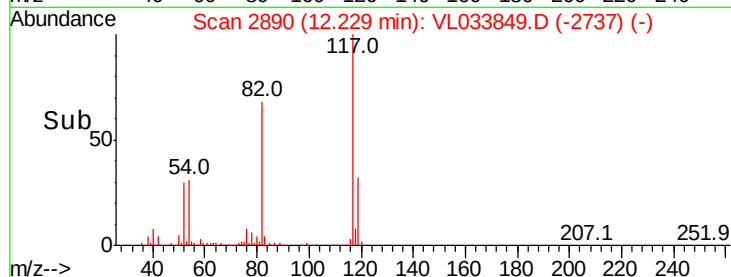
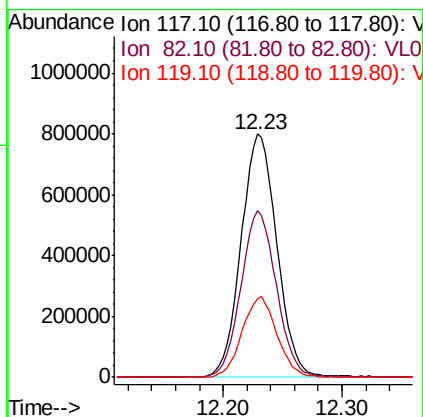
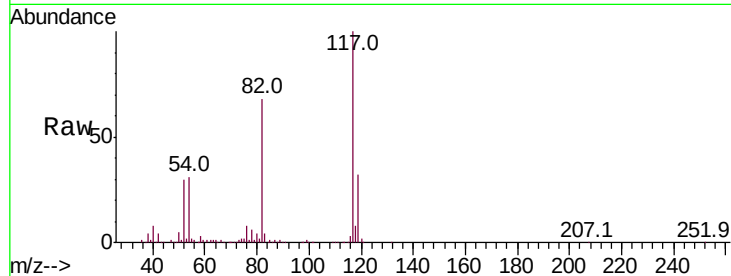
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Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.23 min Scan# 2890  
Delta R.T. -0.01 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

Instrument :  
MSVOA\_L  
ClientSampleId :  
SG-6-20190523-ODL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 68.1  | 49.4  | 74.0  |
| 119     | 32.5  | 24.9  | 37.3  |

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#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.172 ppbv  
RT: 14.57 min Scan# 3618  
Delta R.T. -0.01 min  
Lab File: VL033849.D  
Acq: 30 May 2019 00:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 65.4  | 53.9  | 80.9  |
| 175     | 4.6   | 3.8   | 5.8   |

