

Data File : VL033727.D  
Acq On : 20 May 2019 16:52  
Operator : SY/AP  
Sample : CAN 10670  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
CAN 10670

Quant Time: May 21 01:32:46 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL051719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri May 17 08:15:41 2019  
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   | 839770   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 1998694  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.23 | 117  | 2009456  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.56  | 95    | 1740807  | 10.69    | ppbv | -0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.90% |

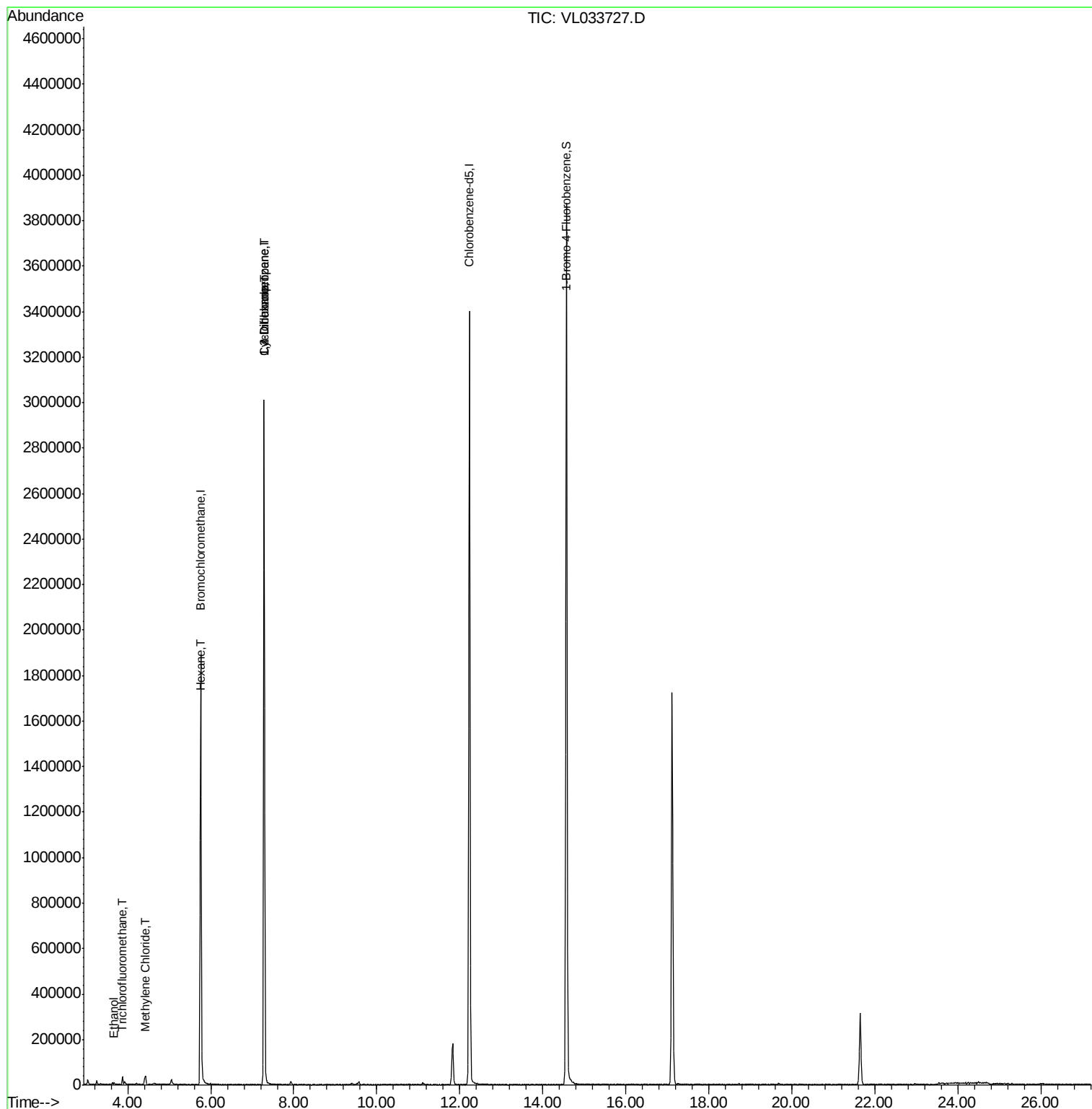
| Target Compounds           | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|------|------|----------|-------|--------|--------|
| 11) Trichlorofluoromethane | 3.88 | 101  | 1941     | 0.011 | ppbv   | 99     |
| 13) Ethanol                | 3.68 | 45   | 1369     | 0.104 | ppbv # | 57     |
| 20) Methylene Chloride     | 4.40 | 84   | 10307    | 0.230 | ppbv # | 80     |
| 26) Hexane                 | 5.77 | 57   | 1506     | 0.017 | ppbv # | 1      |
| 30) Cyclohexane            | 7.28 | 84   | 2814     | 0.038 | ppbv # | 1      |
| 39) 1,2-Dichloropropane    | 7.28 | 63   | 528861   | 7.802 | ppbv # | 22     |

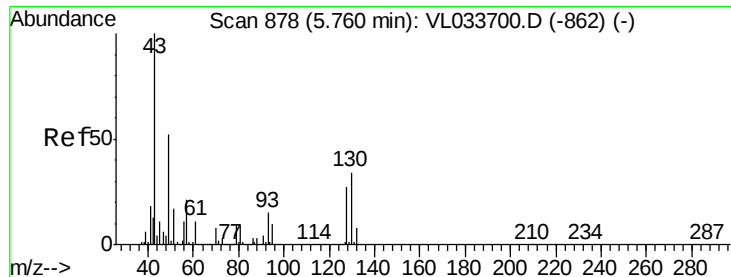
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

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CAN 10670

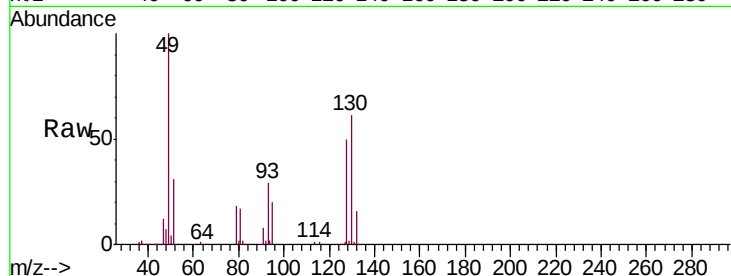
Tgt Ion: 49 Resp: 839770

Ion Ratio Lower Upper

49 100

128 50.1 25.2 75.6

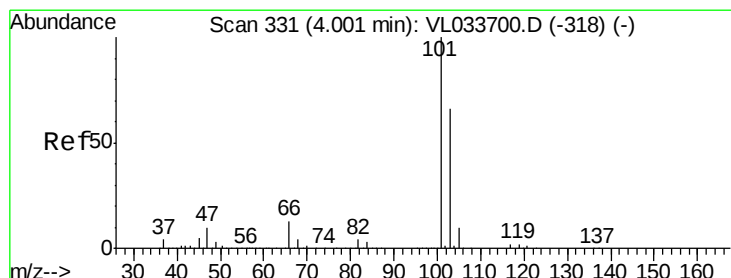
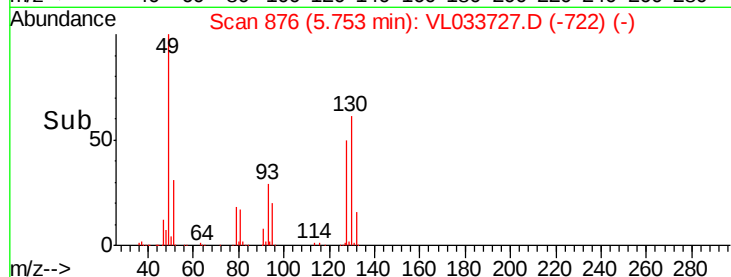
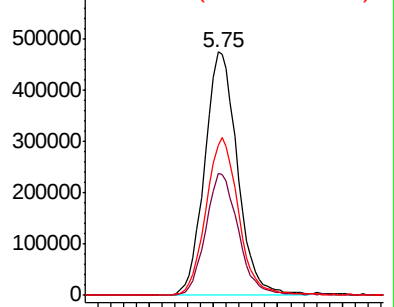
130 64.8 32.5 97.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#11

Trichlorofluoromethane

Concen: 0.011 ppbv

RT: 3.88 min Scan# 293

Delta R.T. -0.12 min

Lab File: VL033727.D

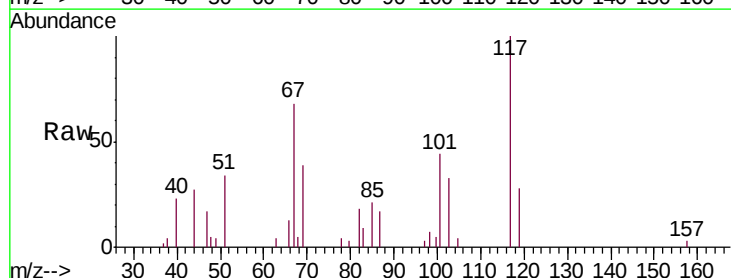
Acq: 20 May 2019 16:52

Tgt Ion: 101 Resp: 1941

Ion Ratio Lower Upper

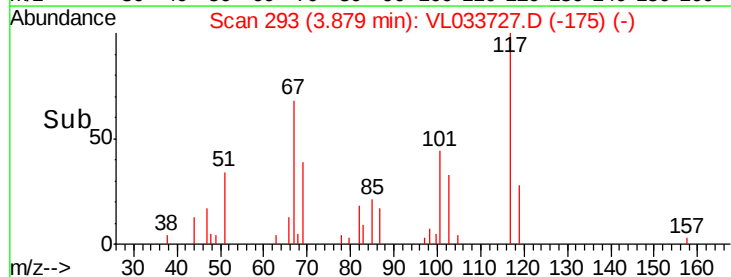
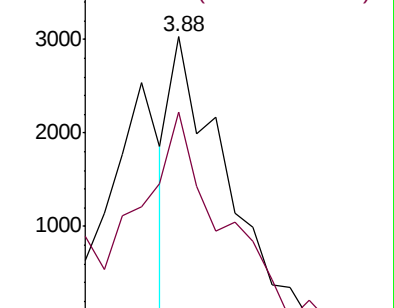
101 100

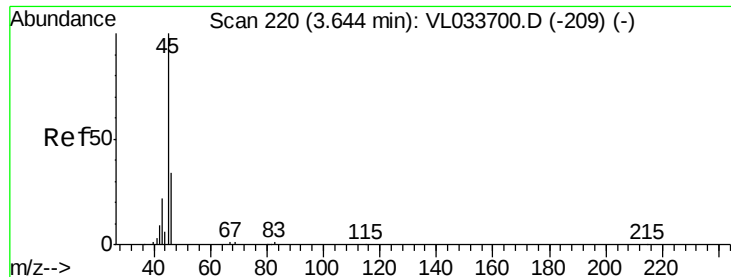
103 66.7 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

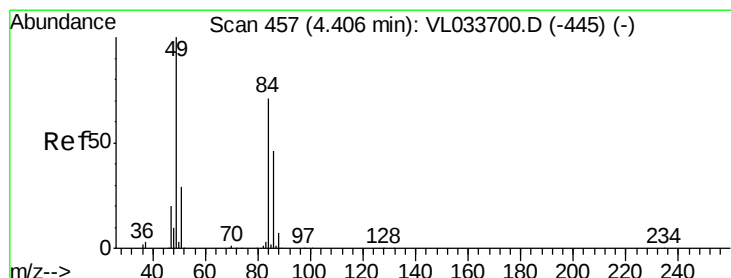
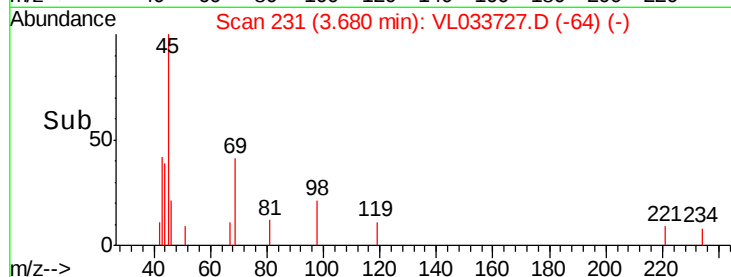
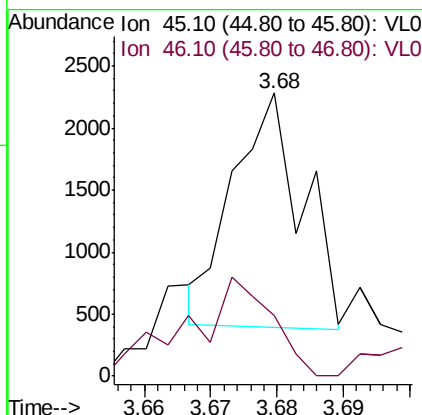
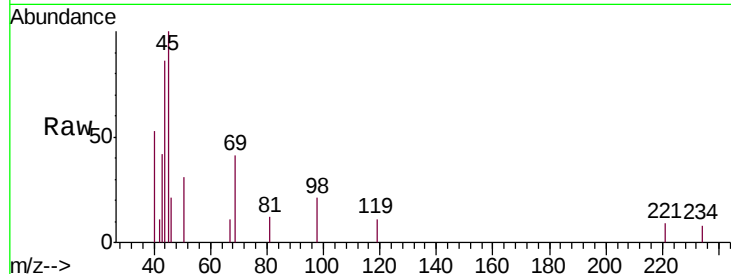




#13  
 Ethanol  
 Concen: 0.104 ppbv  
 RT: 3.68 min Scan# 231  
 Delta R.T. 0.04 min  
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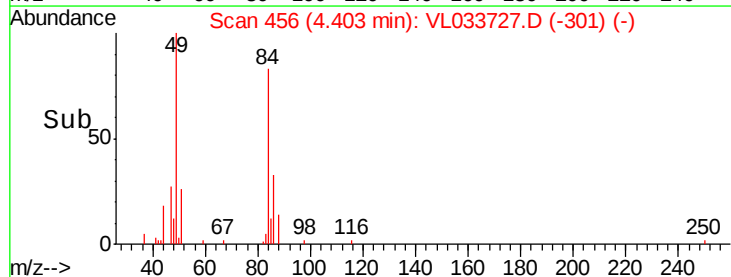
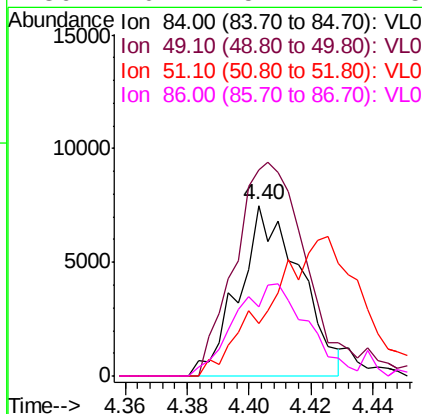
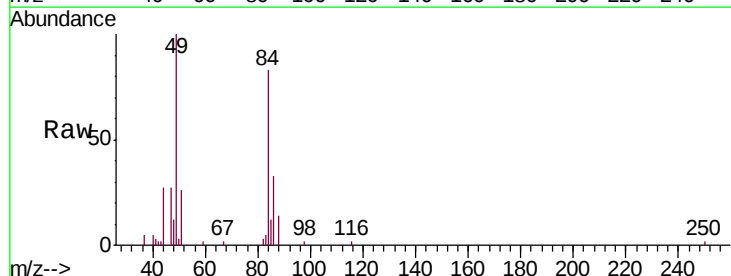
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 CAN 10670

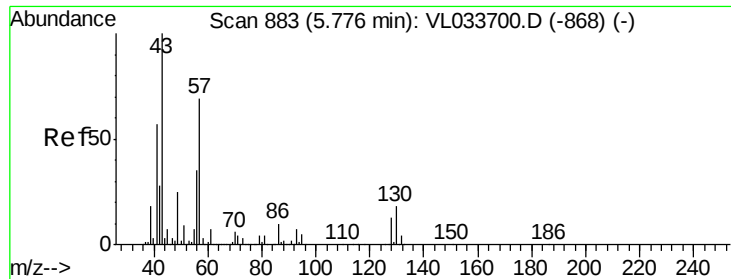
Tgt Ion: 45 Resp: 1369  
 Ion Ratio Lower Upper  
 45 100  
 46 62.5 14.8 59.0#



#20  
 Methylene Chloride  
 Concen: 0.230 ppbv  
 RT: 4.40 min Scan# 456  
 Delta R.T. -0.00 min  
 Lab File: VL033727.D  
 Acq: 20 May 2019 16:52

Tgt Ion: 84 Resp: 10307  
 Ion Ratio Lower Upper  
 84 100  
 49 121.1 112.8 169.2  
 51 30.9 33.4 50.0#  
 86 40.4 51.7 77.5#





#26

Hexane

Concen: 0.017 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.00 min

Lab File: VL033727.D

Acq: 20 May 2019 16:52

Instrument :

MSVOA\_L

ClientSampleId :

CAN 10670

Tgt Ion: 57 Resp: 1506

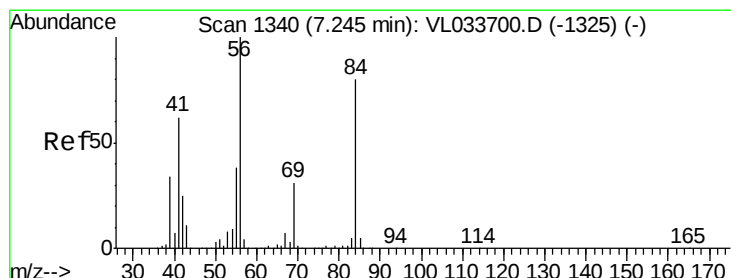
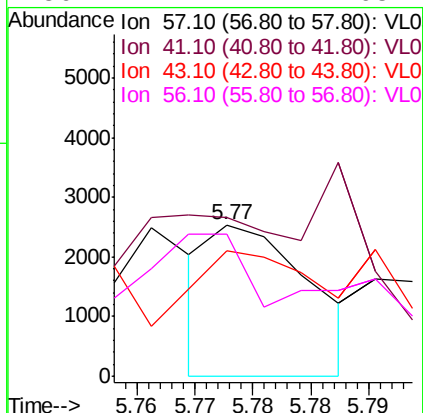
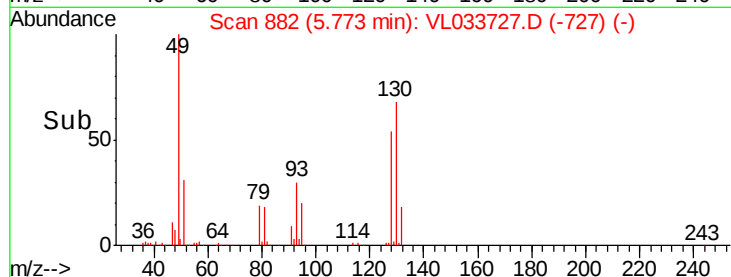
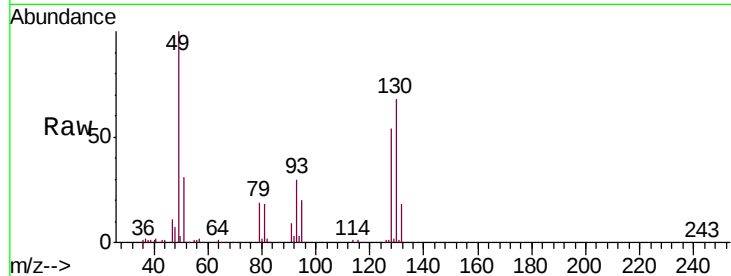
Ion Ratio Lower Upper

57 100

41 0.0 69.8 104.6#

43 0.0 181.8 272.6#

56 247.4 42.1 63.1#



#30

Cyclohexane

Concen: 0.038 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. 0.03 min

Lab File: VL033727.D

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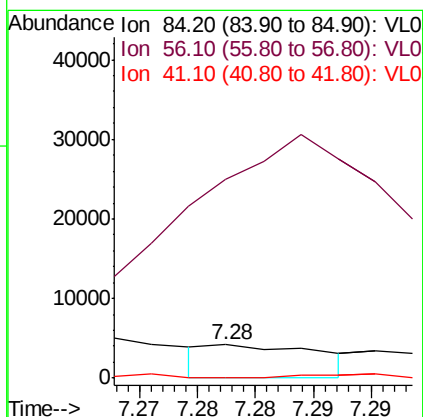
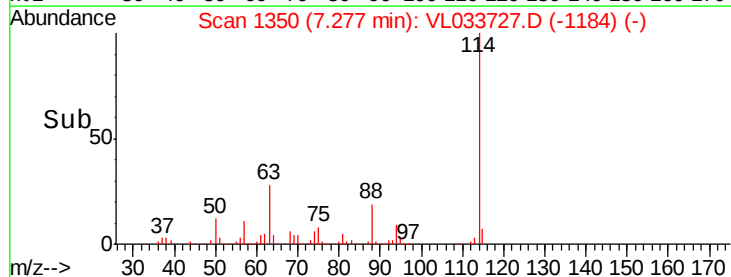
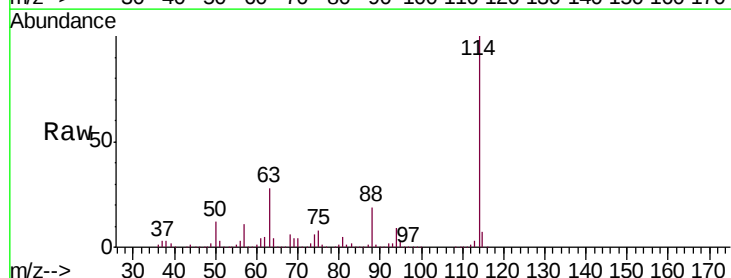
Tgt Ion: 84 Resp: 2814

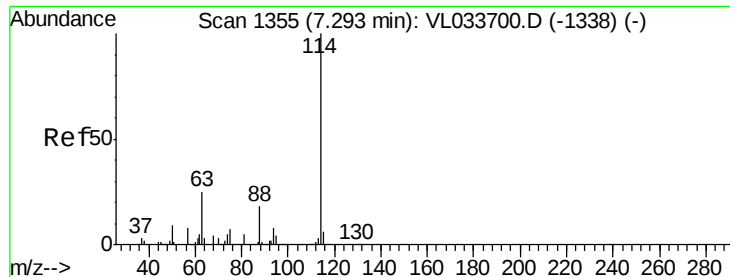
Ion Ratio Lower Upper

84 100

56 0.0 107.7 161.5#

41 0.0 66.0 99.0#

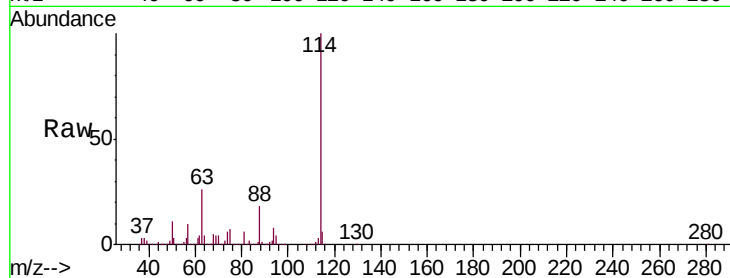




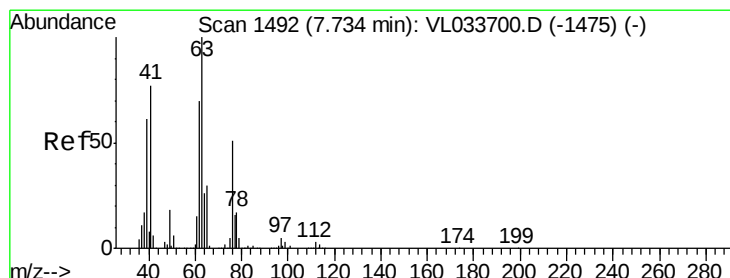
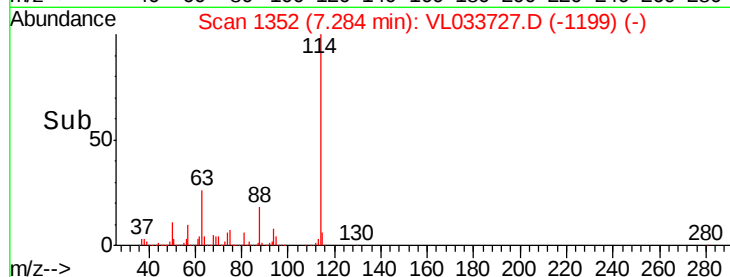
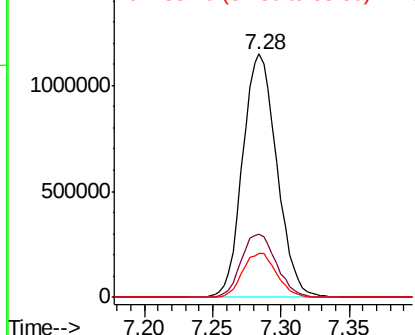
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.28 min Scan# 1352  
 Delta R.T. -0.01 min  
 Lab File: VL033727.D  
 Acq: 20 May 2019 16:52

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 ClientSampleId :  
 CAN 10670

Tgt Ion: 114 Resp: 1998694  
 Ion Ratio Lower Upper  
 114 100  
 63 26.8 20.9 31.3  
 88 18.1 14.3 21.5

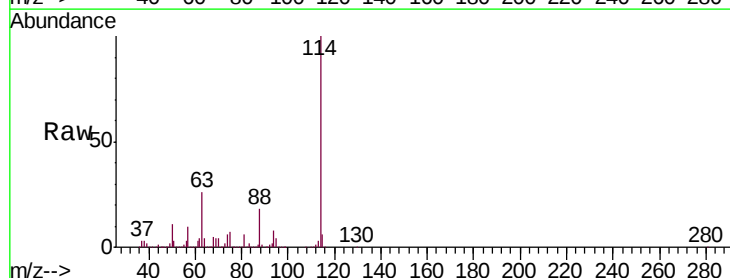


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

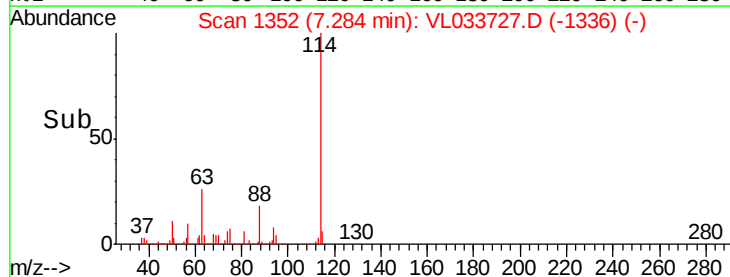
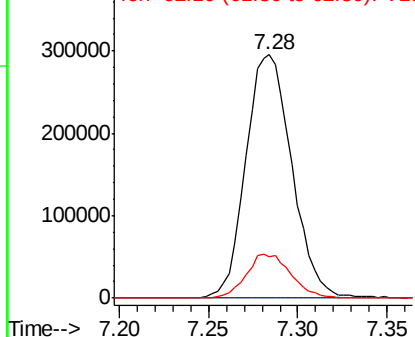


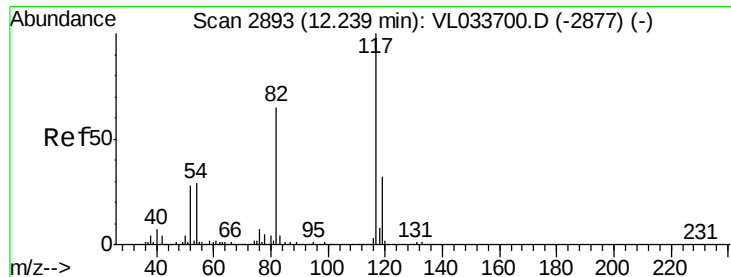
#39  
 1,2-Dichloropropane  
 Concen: 7.802 ppbv  
 RT: 7.28 min Scan# 1352  
 Delta R.T. -0.45 min  
 Lab File: VL033727.D  
 Acq: 20 May 2019 16:52

Tgt Ion: 63 Resp: 528861  
 Ion Ratio Lower Upper  
 63 100  
 41 0.1 61.5 92.3#  
 62 16.8 56.2 84.4#



Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0

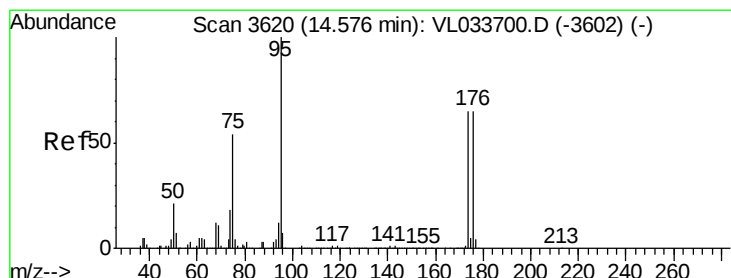
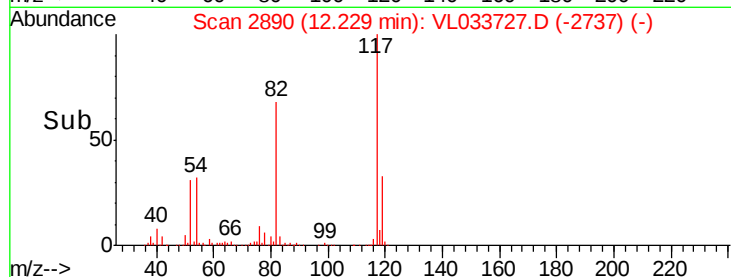
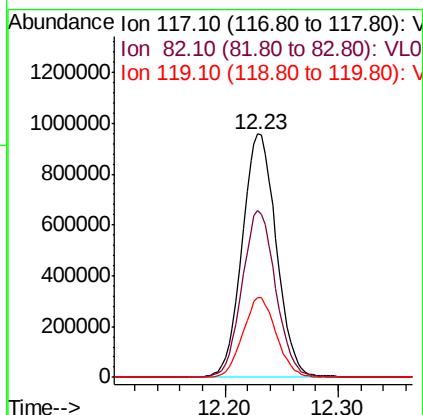
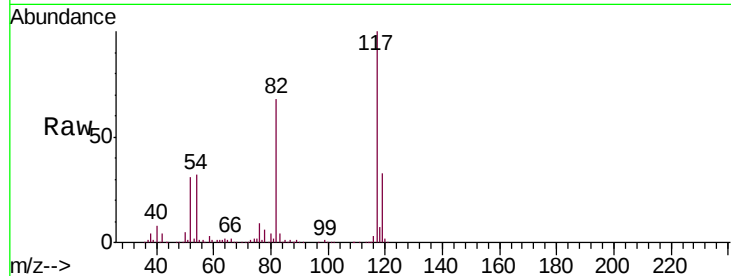




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.23 min Scan# 2890  
Delta R.T. -0.01 min  
Lab File: VL033727.D  
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Tgt Ion: 117 Resp: 2009456  
Ion Ratio Lower Upper  
117 100  
82 67.8 49.4 74.0  
119 32.4 24.9 37.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.686 ppbv  
RT: 14.56 min Scan# 3616  
Delta R.T. -0.01 min  
Lab File: VL033727.D  
Acq: 20 May 2019 16:52

Tgt Ion: 95 Resp: 1740807  
Ion Ratio Lower Upper  
95 100  
174 66.5 53.9 80.9  
175 4.8 3.8 5.8

