

Data File : VL033564.D  
Acq On : 10 Apr 2019 14:35  
Operator : SY/AP  
Sample : VL0410ABL01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0410ABL01

Quant Time: Apr 11 03:43:01 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 26 16:00:50 2019  
QLast Update : Tue Mar 26 16:00:50 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 1013126  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 2502132  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 2584459  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 2103392  | 10.38    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.80% |

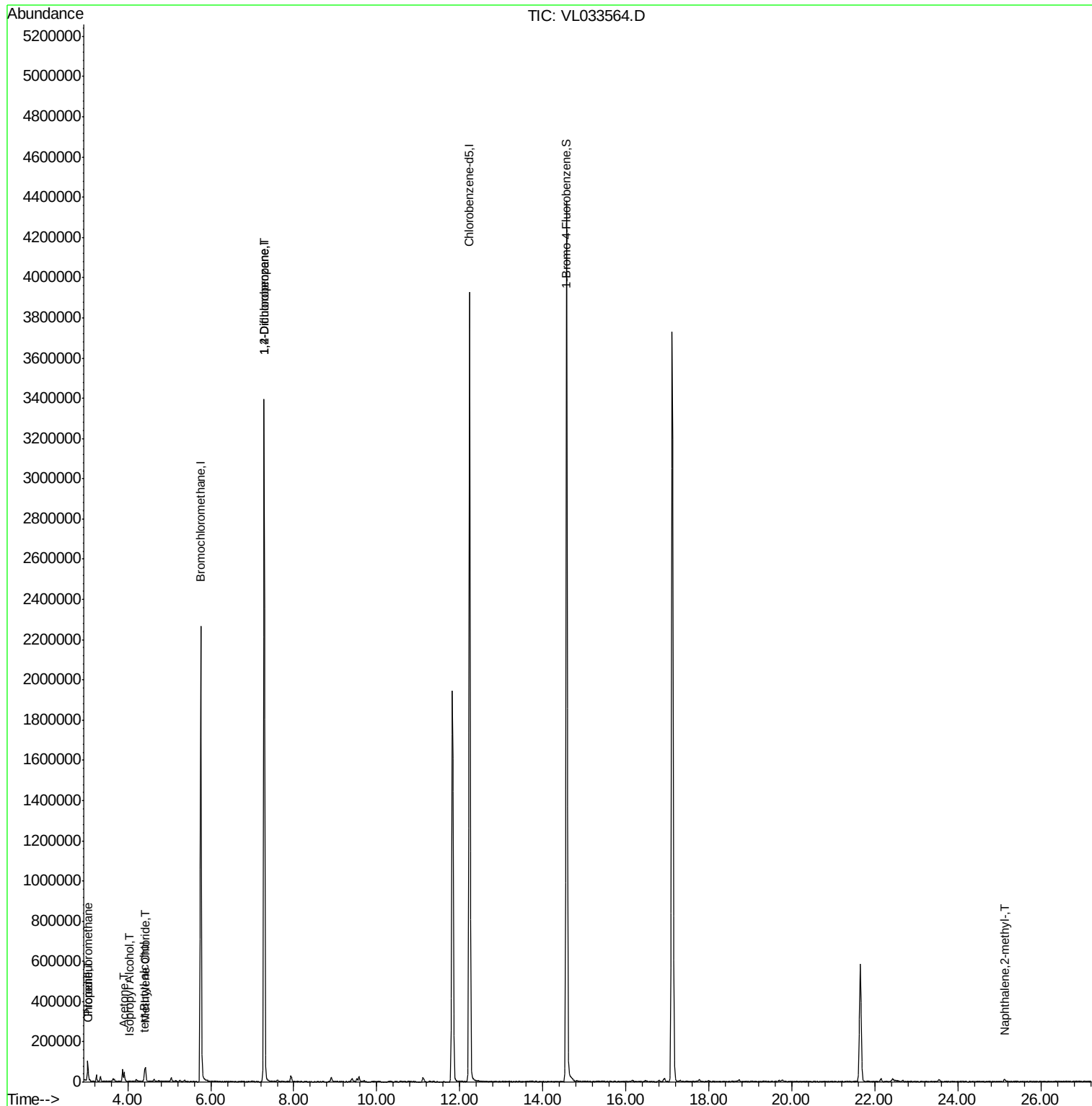
| Target Compounds          | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|---------------------------|-------|------|----------|-------|--------|--------|
| 3) Chlorodifluoromethane  | 3.02  | 51   | 5483     | 0.047 | ppbv   | 93     |
| 9) Propene                | 3.04  | 41   | 2855     | 0.058 | ppbv # | 16     |
| 15) Acetone               | 3.91  | 43   | 47639    | 0.391 | ppbv   | 91     |
| 17) tert-Butyl alcohol    | 4.38  | 59   | 2390     | 0.107 | ppbv # | 73     |
| 19) Isopropyl Alcohol     | 4.05  | 45   | 2771     | 0.036 | ppbv # | 95     |
| 20) Methylene Chloride    | 4.41  | 84   | 18685    | 0.361 | ppbv # | 84     |
| 39) 1,2-Dichloropropane   | 7.28  | 63   | 610562   | 7.424 | ppbv # | 23     |
| 80) Naphthalene,2-methyl- | 25.12 | 142  | 7410     | 0.075 | ppbv   | 90     |

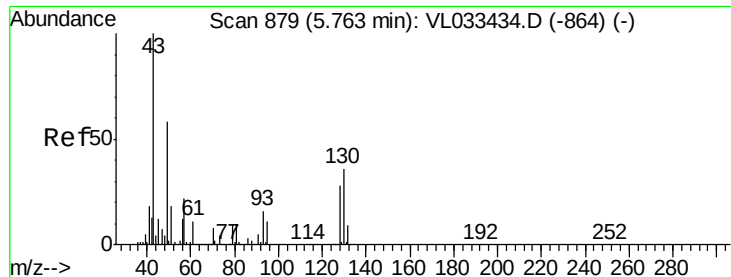
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

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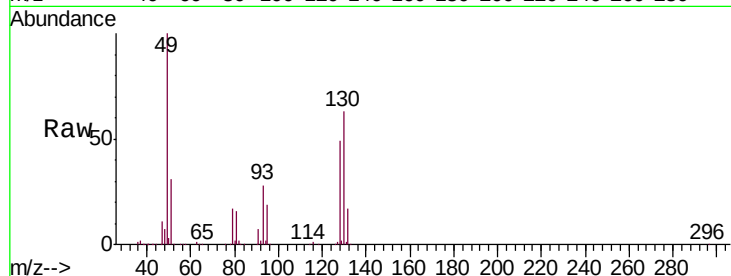
Tgt Ion: 49 Resp: 1013126

Ion Ratio Lower Upper

49 100

128 51.3 24.0 72.0

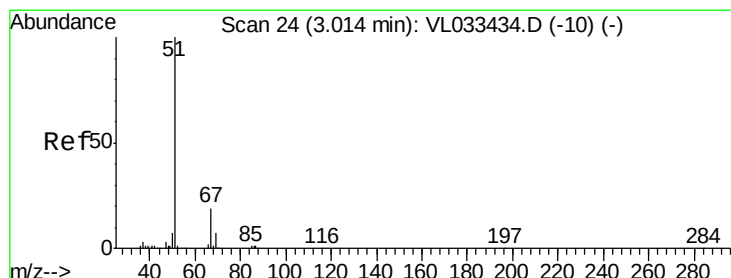
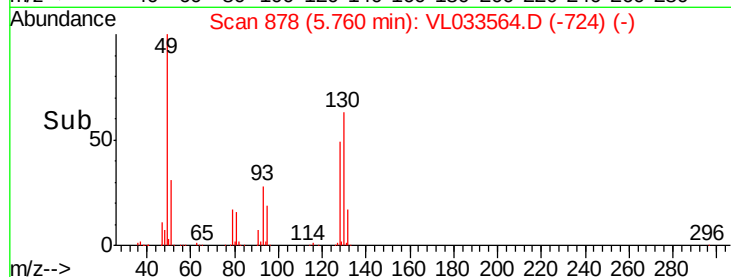
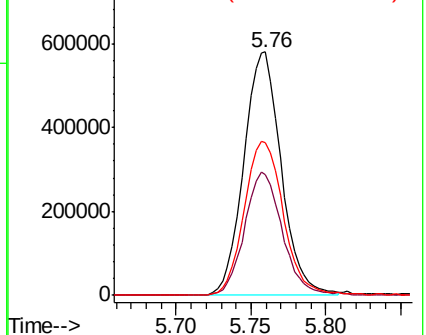
130 66.7 31.2 93.6



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



#3

Chlorodifluoromethane

Concen: 0.047 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.01 min

Lab File: VL033564.D

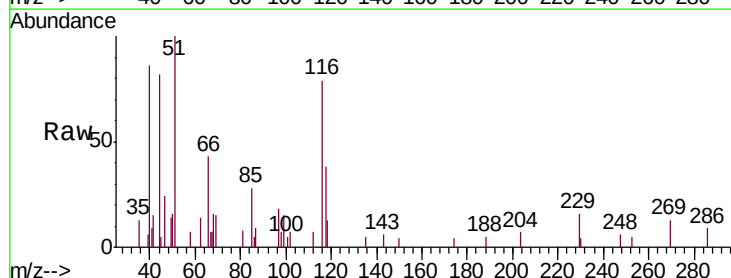
Acq: 10 Apr 2019 14:35

Tgt Ion: 51 Resp: 5483

Ion Ratio Lower Upper

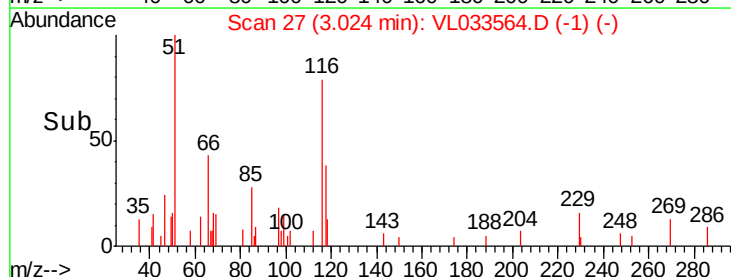
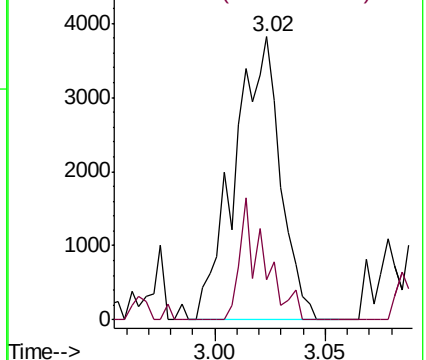
51 100

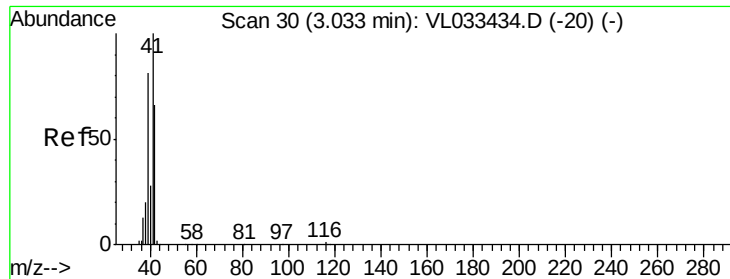
67 23.0 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.058 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.01 min

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Instrument :

MSVOA\_L

ClientSampleId :

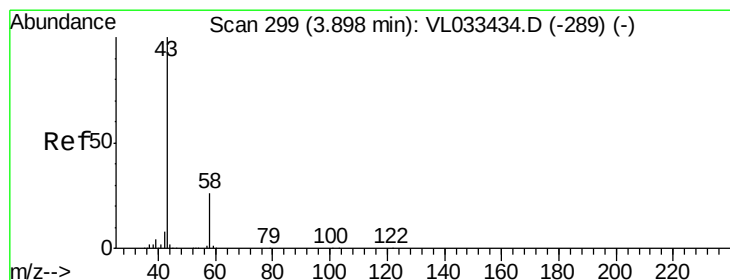
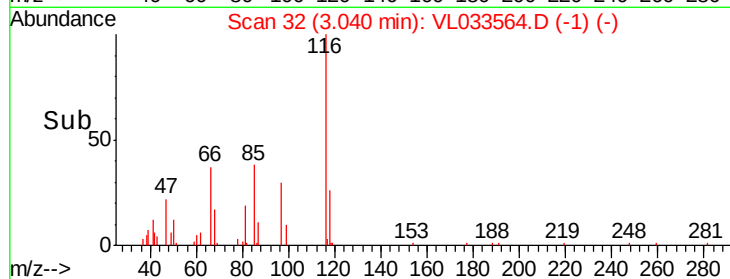
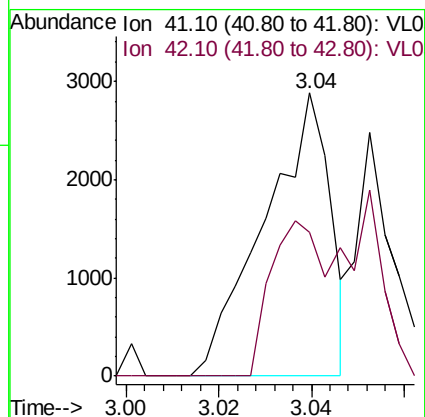
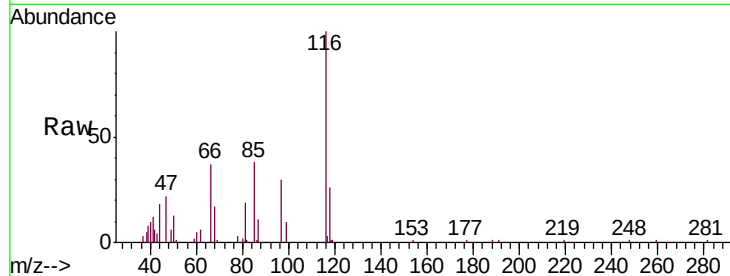
VL0410ABL01

Tgt Ion: 41 Resp: 2855

Ion Ratio Lower Upper

41 100

42 0.0 53.9 80.9#



#15

Acetone

Concen: 0.391 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033564.D

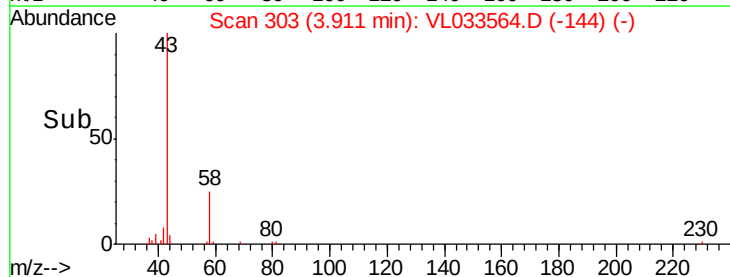
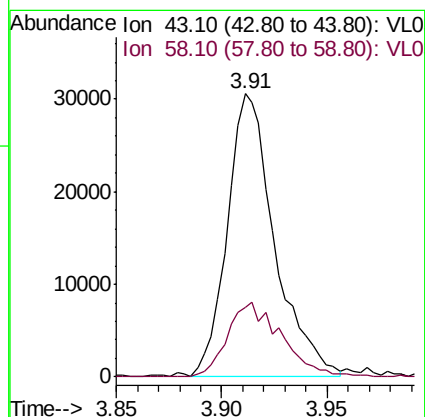
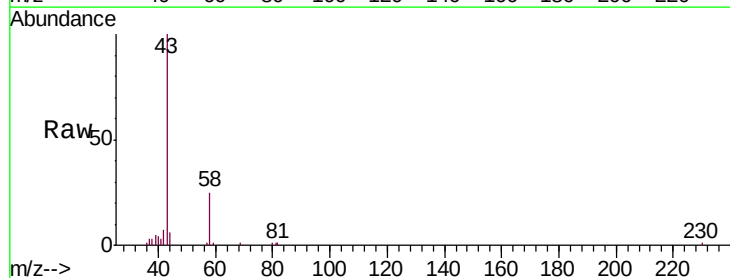
Acq: 10 Apr 2019 14:35

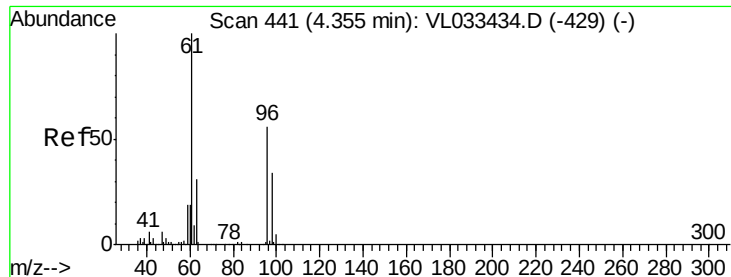
Tgt Ion: 43 Resp: 47639

Ion Ratio Lower Upper

43 100

58 30.0 20.5 30.7



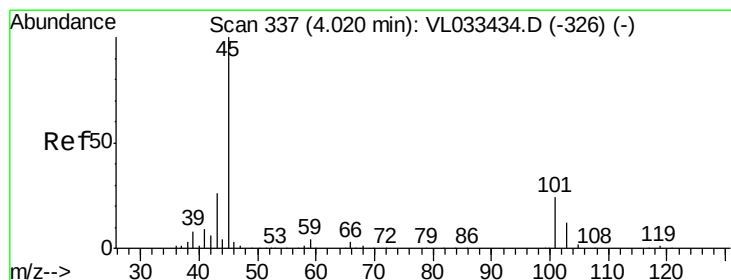
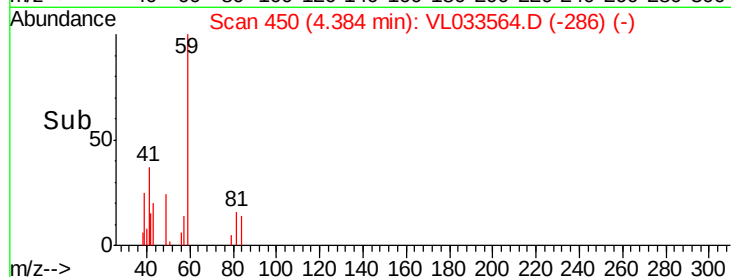
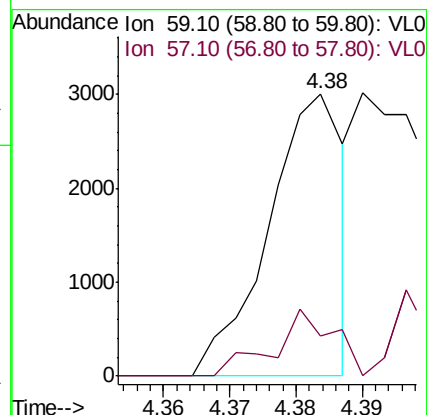
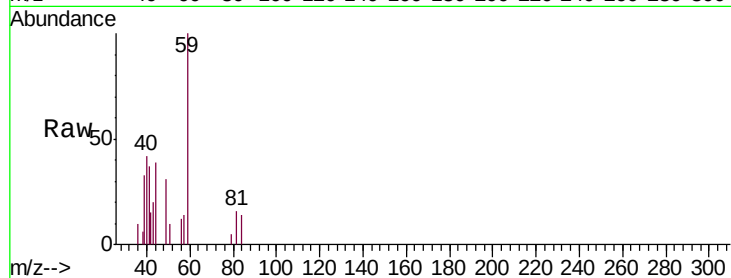


#17

tert-Butyl alcohol  
 Concen: 0.107 ppbv  
 RT: 4.38 min Scan# 450  
 Delta R.T. 0.03 min  
 Lab File: VL033564.D  
 Acq: 10 Apr 2019 14:35

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0410ABL01

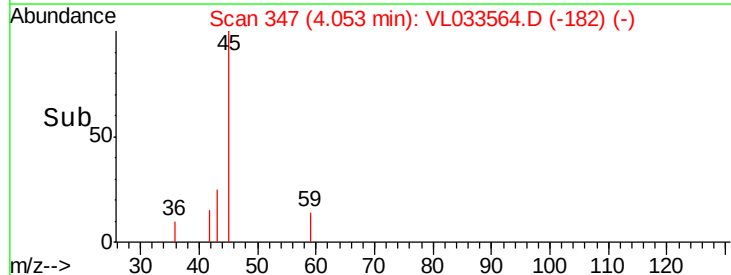
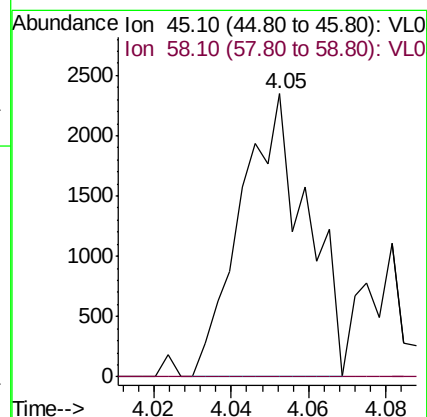
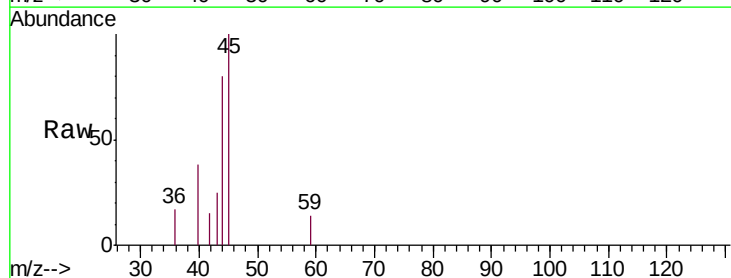
Tgt Ion: 59 Resp: 2390  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.8 11.8#

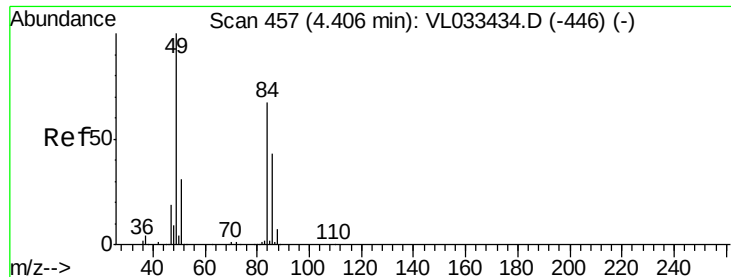


#19

Isopropyl Alcohol  
 Concen: 0.036 ppbv  
 RT: 4.05 min Scan# 347  
 Delta R.T. 0.03 min  
 Lab File: VL033564.D  
 Acq: 10 Apr 2019 14:35

Tgt Ion: 45 Resp: 2771  
 Ion Ratio Lower Upper  
 45 100  
 58 0.0 1.4 2.2#

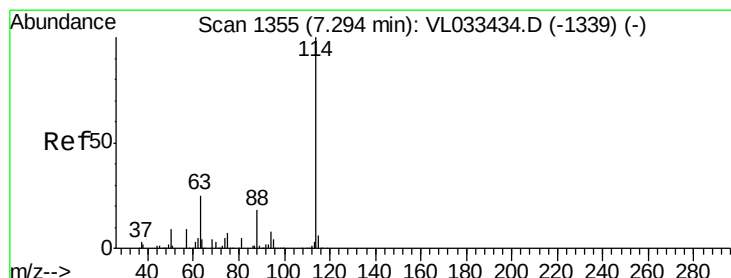
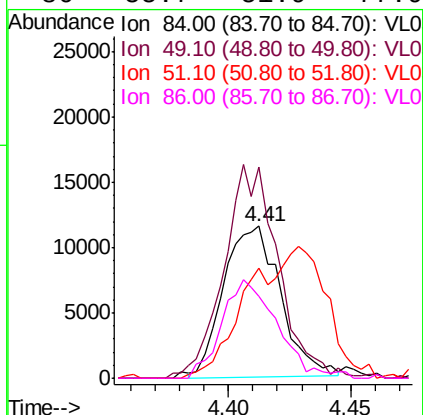
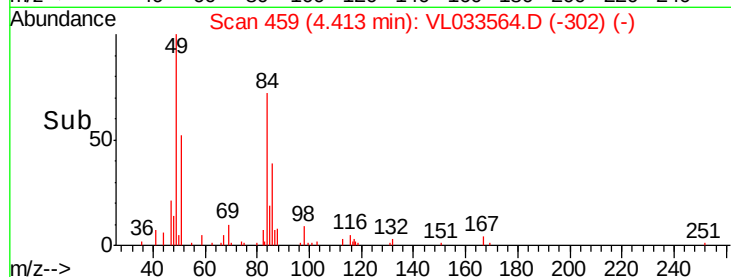
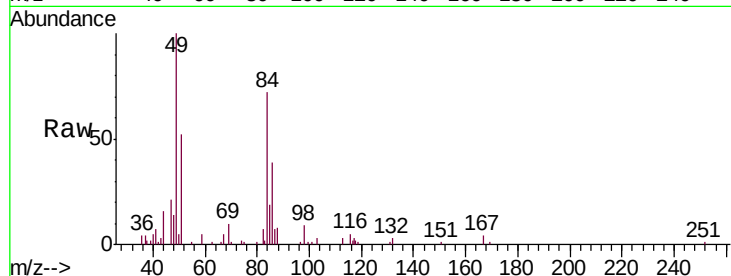




#20  
Methylene Chloride  
Concen: 0.361 ppbv  
RT: 4.41 min Scan# 459  
Delta R.T. 0.01 min  
Lab File: VL033564.D  
Acq: 10 Apr 2019 14:35

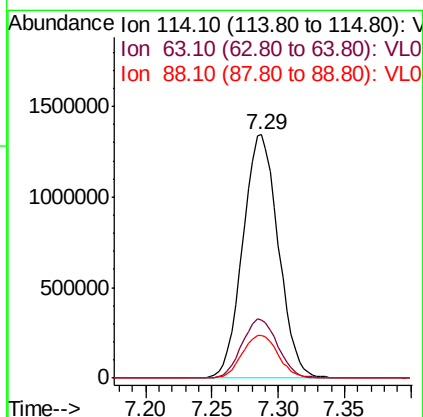
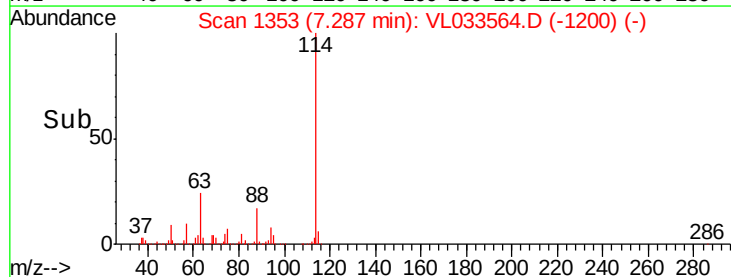
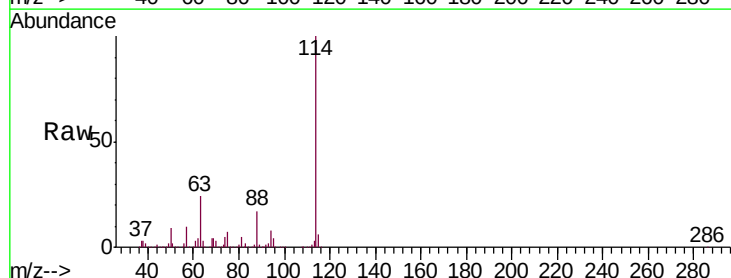
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0410ABL01

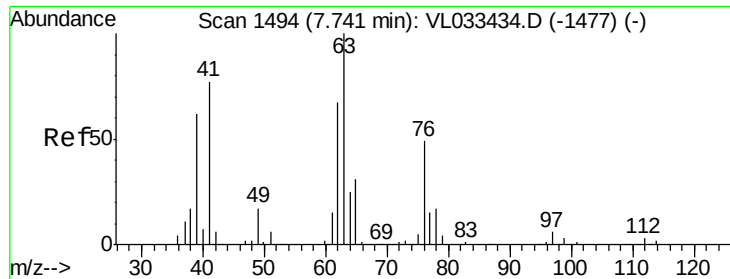
Tgt Ion: 84 Resp: 18685  
Ion Ratio Lower Upper  
84 100  
49 137.7 120.0 180.0  
51 72.7 36.7 55.1#  
86 55.7 51.9 77.9



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.29 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: VL033564.D  
Acq: 10 Apr 2019 14:35

Tgt Ion: 114 Resp: 2502132  
Ion Ratio Lower Upper  
114 100  
63 24.6 21.5 32.3  
88 17.8 14.5 21.7

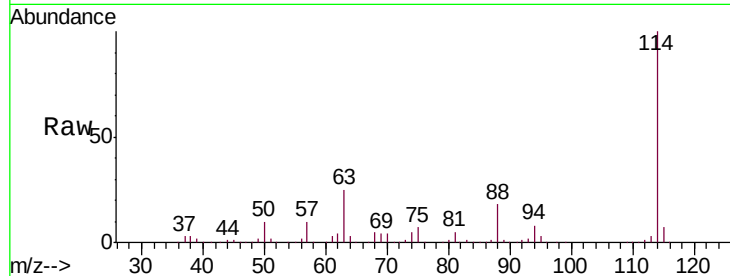




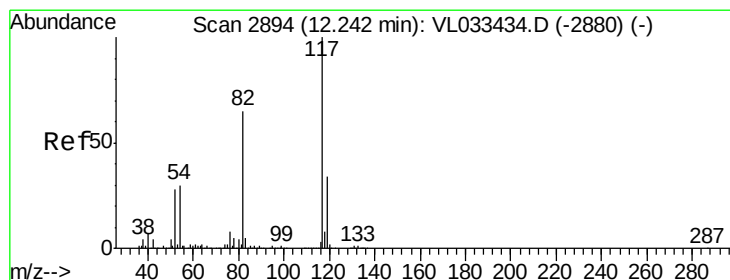
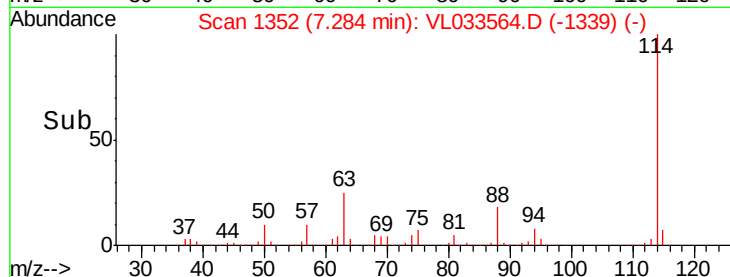
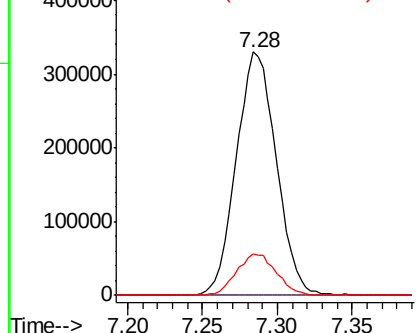
#39  
 1,2-Dichloropropane  
 Concen: 7.424 ppbv  
 RT: 7.28 min Scan# 1352  
 Delta R.T. -0.46 min  
 Lab File: VL033564.D  
 Acq: 10 Apr 2019 14:35

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0410ABL01

Tgt Ion: 63 Resp: 610562  
 Ion Ratio Lower Upper  
 63 100  
 41 0.1 61.2 91.8#  
 62 16.9 54.0 81.0#

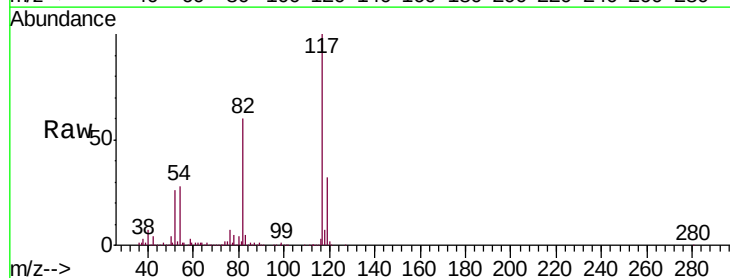


Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0

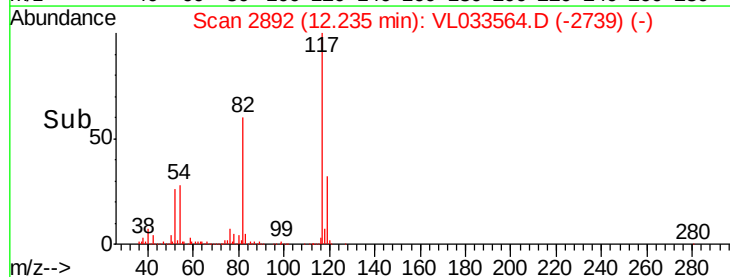
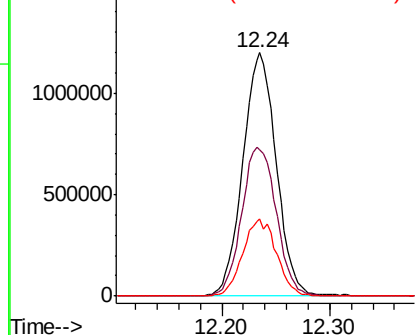


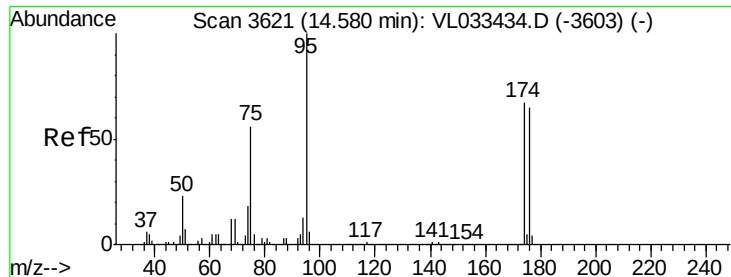
#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.24 min Scan# 2892  
 Delta R.T. -0.01 min  
 Lab File: VL033564.D  
 Acq: 10 Apr 2019 14:35

Tgt Ion: 117 Resp: 2584459  
 Ion Ratio Lower Upper  
 117 100  
 82 64.0 51.5 77.3  
 119 32.3 25.5 38.3



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: 10.381 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033564.D

Acq: 10 Apr 2019 14:35

Instrument :

MSVOA\_L

ClientSampleId :

VL0410ABL01

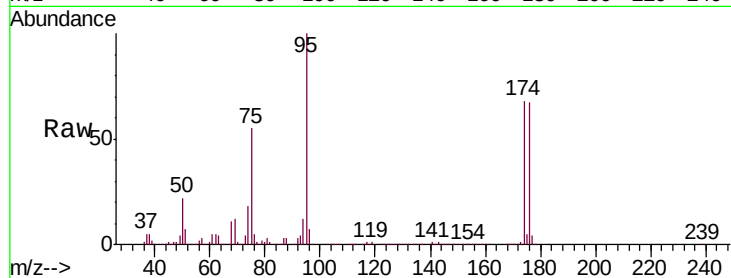
Tgt Ion: 95 Resp: 2103392

Ion Ratio Lower Upper

95 100

174 69.5 52.9 79.3

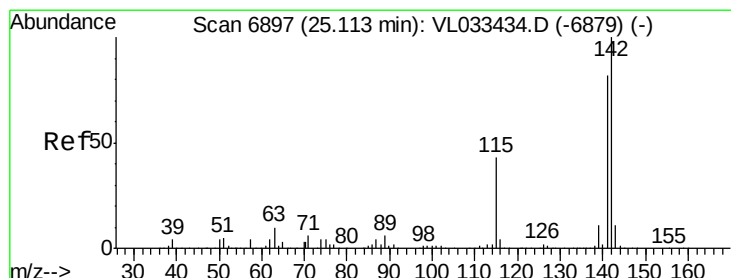
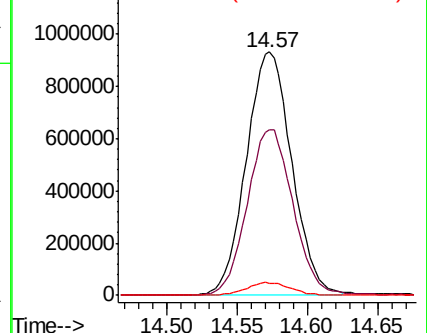
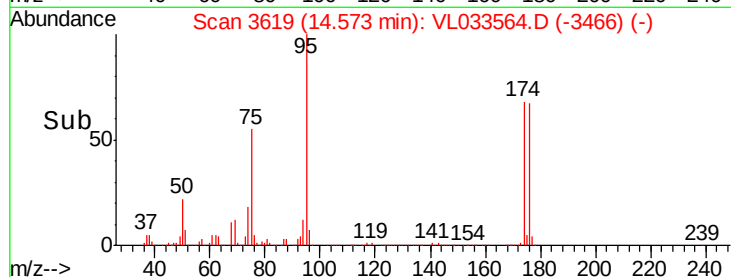
175 5.2 3.8 5.6



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



#80

Naphthalene, 2-methyl-

Concen: 0.075 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. 0.01 min

Lab File: VL033564.D

Acq: 10 Apr 2019 14:35

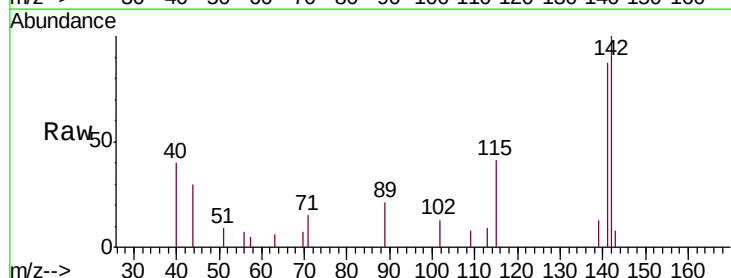
Tgt Ion: 142 Resp: 7410

Ion Ratio Lower Upper

142 100

141 92.7 66.6 99.8

115 49.0 34.4 51.6



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

