

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041619\
 Data File : VL033592.D
 Acq On : 16 Apr 2019 14:59
 Operator : SY/AP
 Sample : K2241-14 0.06 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Quant Time: Apr 17 08:13:13 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	852214	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2087103	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2077154	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1664507	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

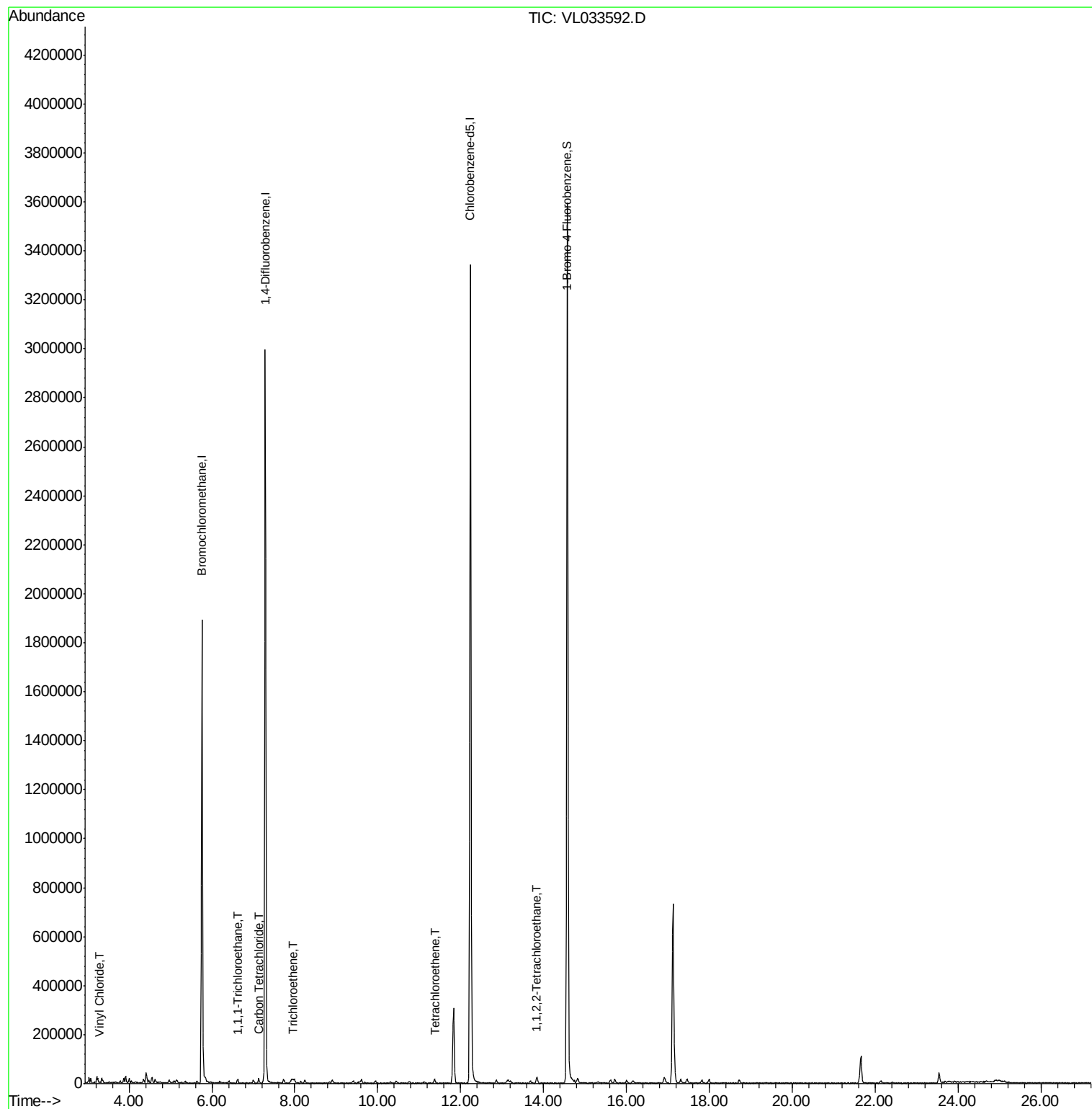
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	3934m	0.077	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	8810	0.064	ppbv	97
35) Carbon Tetrachloride	7.13	117	9248	0.063	ppbv	96
38) Trichloroethene	7.96	130	3888m	0.059	ppbv	
52) Tetrachloroethene	11.37	164	4009m	0.061	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	9969m	0.057	ppbv	

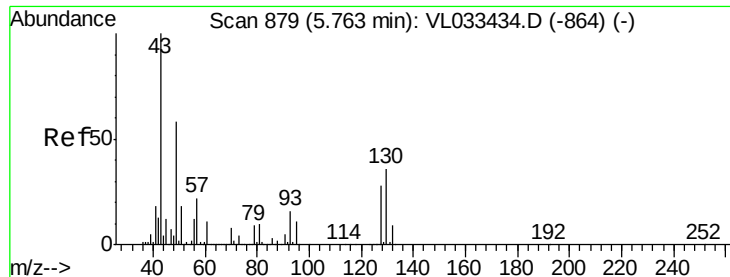
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033592.D

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Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

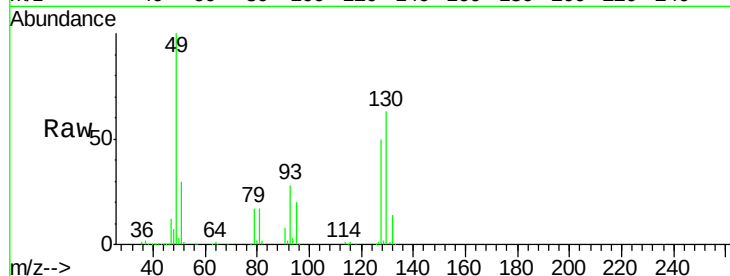
Tot Ion: 49 Resp: 852214

Ion Ratio Lower Upper

49 100

128 50.7 24.0 72.0

130 64.1 31.2 93.6



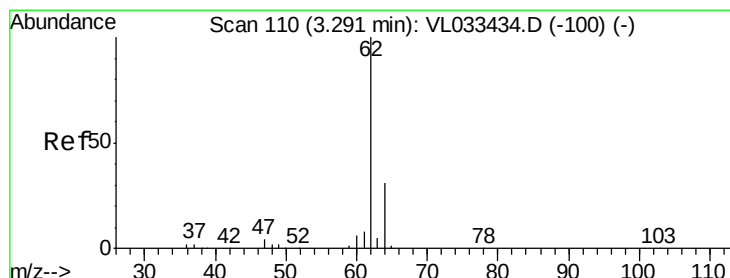
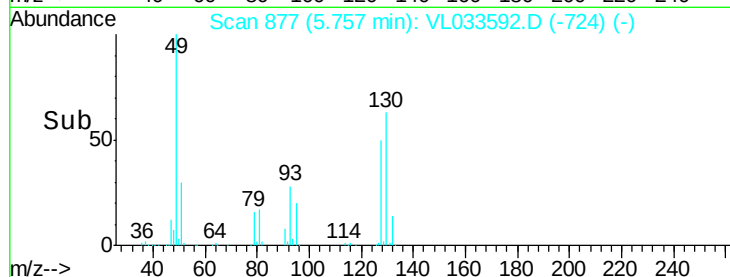
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.76

Time-->



#5

Vinyl Chloride

Concen: 0.077 ppbv m

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033592.D

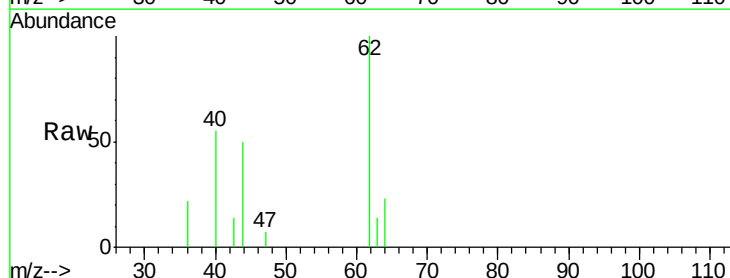
Acq: 16 Apr 2019 14:59

Tgt Ion: 62 Resp: 3934

Ion Ratio Lower Upper

62 100

64 23.2 24.9 37.3#

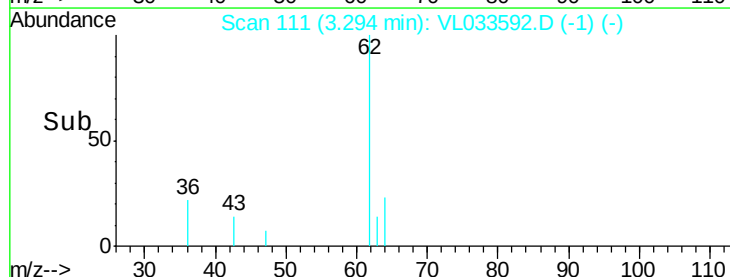


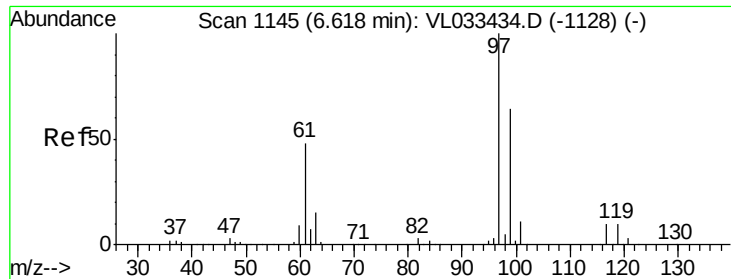
Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

Time-->





#32

1,1,1-Trichloroethane

Concen: 0.064 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033592.D

Acq: 16 Apr 2019 14:59

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

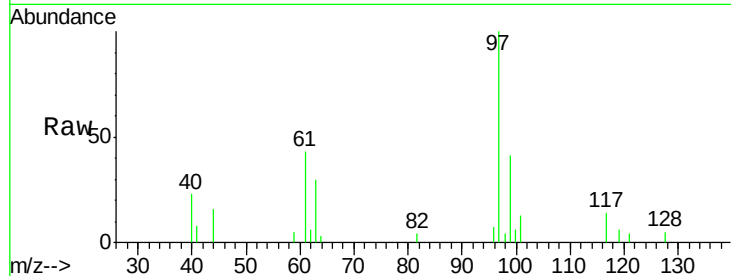
Tot Ion: 97 Resp: 8810

Ion Ratio Lower Upper

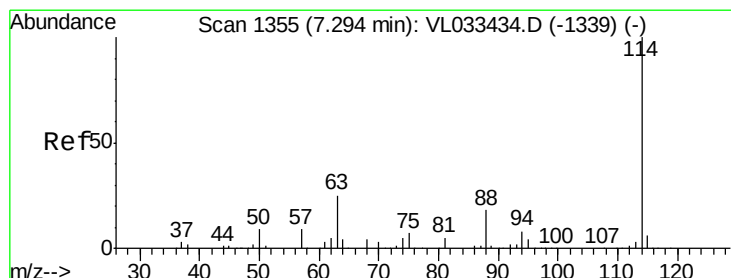
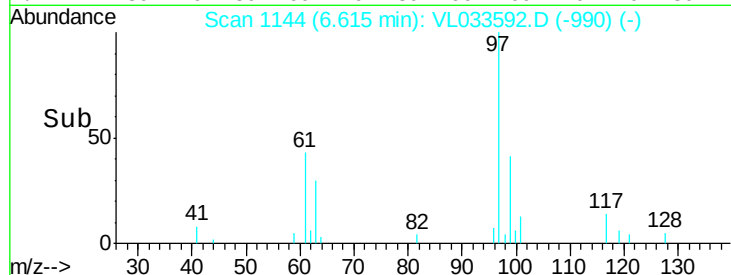
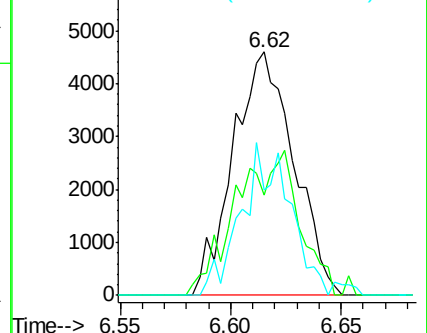
97 100

99 62.8 51.5 77.3

61 51.2 38.8 58.2



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033592.D

Acq: 16 Apr 2019 14:59

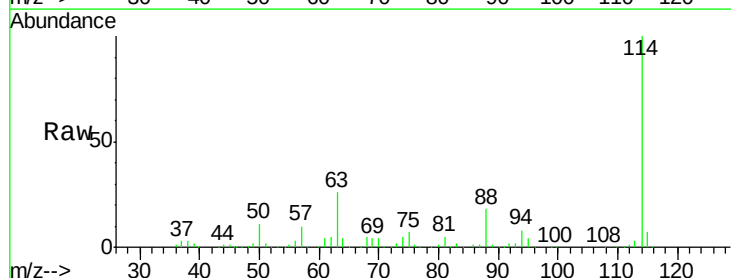
Tgt Ion: 114 Resp: 2087103

Ion Ratio Lower Upper

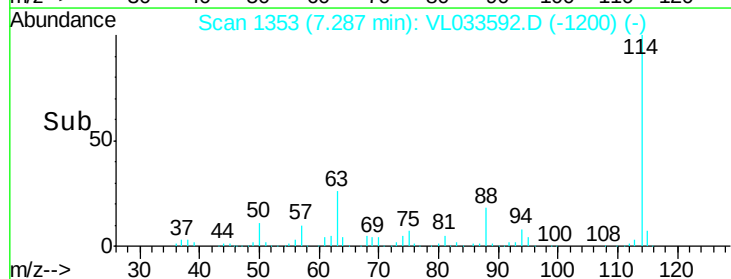
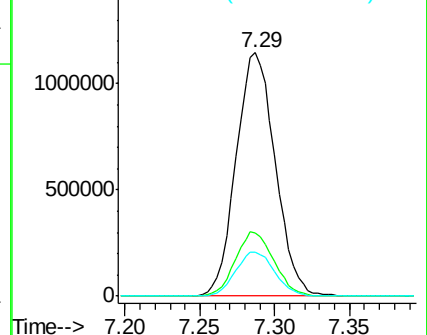
114 100

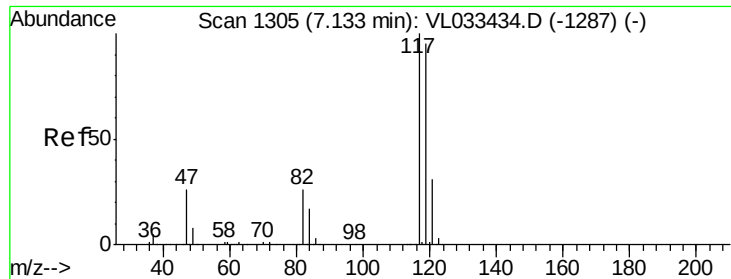
63 26.2 21.5 32.3

88 18.3 14.5 21.7



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

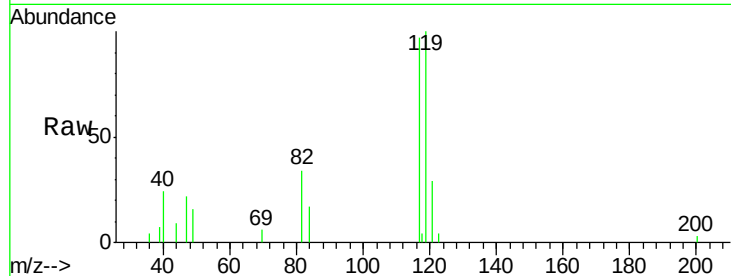




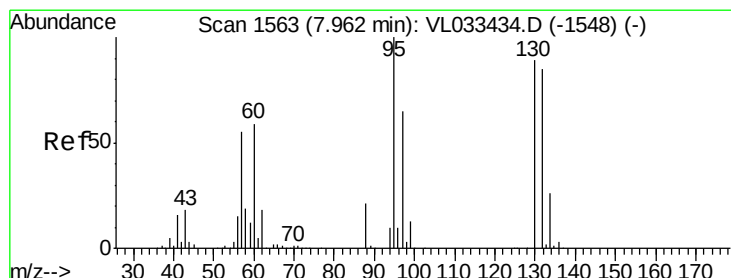
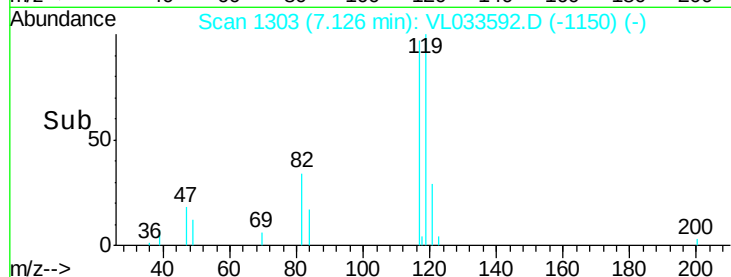
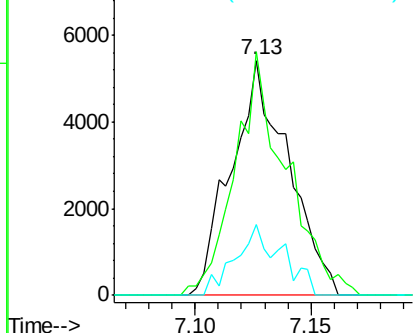
#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 7.13 min Scan# 1303
Delta R.T. -0.01 min
Lab File: VL033592.D
Acq: 16 Apr 2019 14:59

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion:117 Resp: 9248
Ion Ratio Lower Upper
117 100
119 99.4 75.8 113.8
121 29.9 24.7 37.1

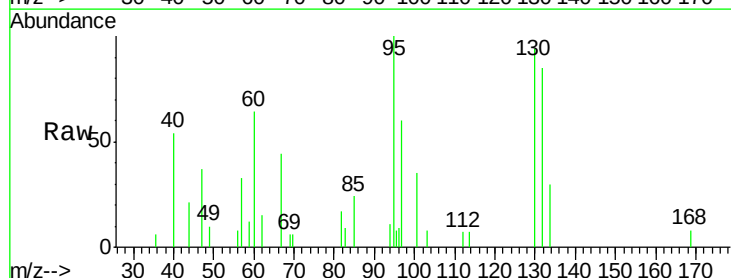


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

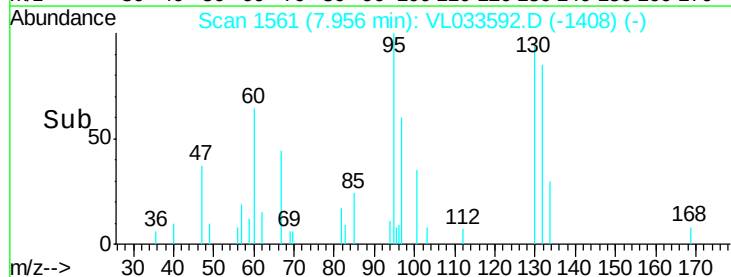
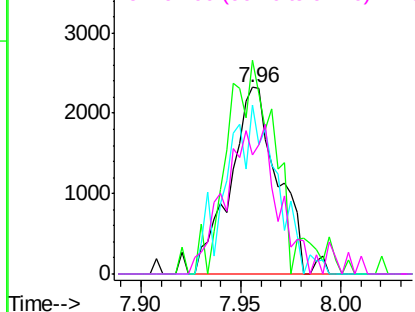


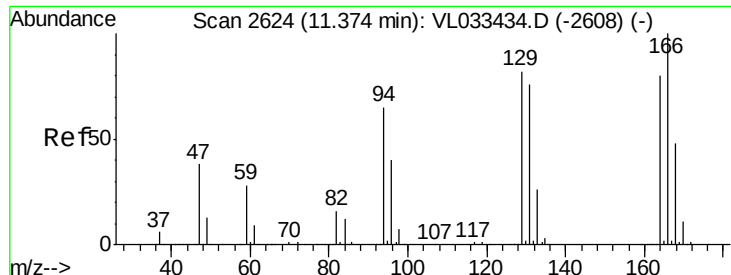
#38
Trichloroethene
Concen: 0.059 ppbv m
RT: 7.96 min Scan# 1561
Delta R.T. -0.01 min
Lab File: VL033592.D
Acq: 16 Apr 2019 14:59

Tgt Ion:130 Resp: 3888
Ion Ratio Lower Upper
130 100
95 106.0 89.8 134.8
132 90.3 76.6 115.0
97 63.7 58.6 88.0



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





#52

Tetrachloroethene

Concen: 0.061 ppbv m

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033592.D

Acq: 16 Apr 2019 14:59

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:164 Resp: 4009

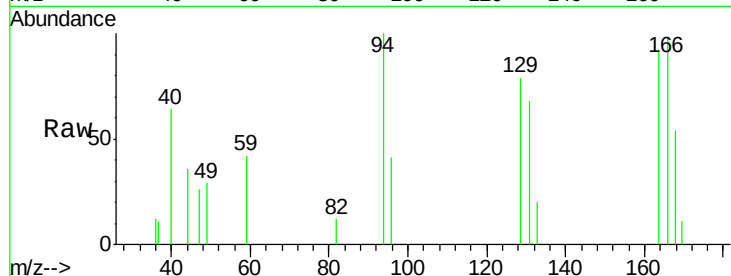
Ion Ratio Lower Upper

164 100

166 106.3 99.5 149.3

129 85.3 81.4 122.2

131 73.5 75.6 113.4#

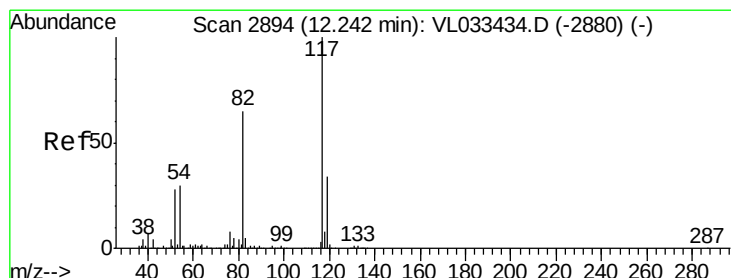
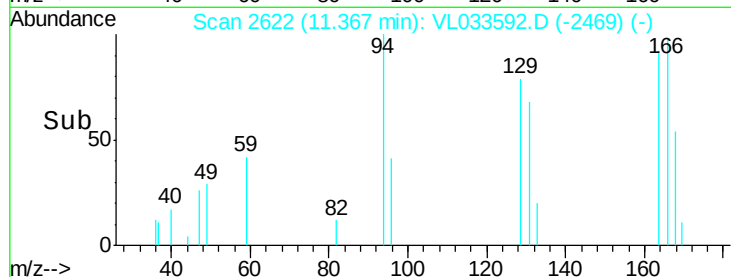
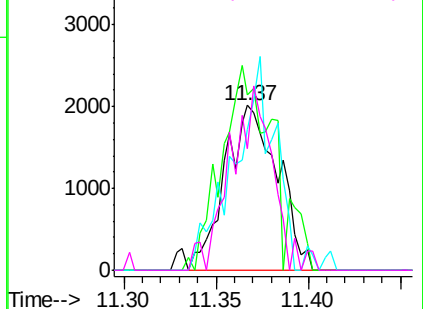


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033592.D

Acq: 16 Apr 2019 14:59

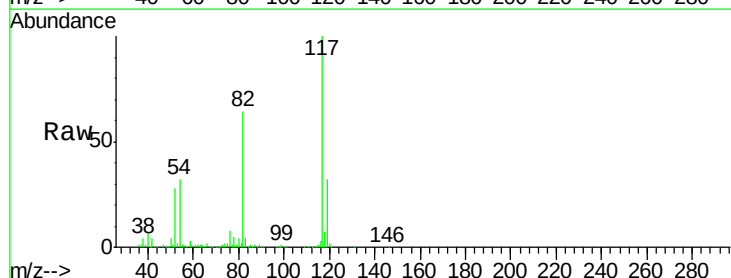
Tgt Ion:117 Resp: 2077154

Ion Ratio Lower Upper

117 100

82 66.1 51.5 77.3

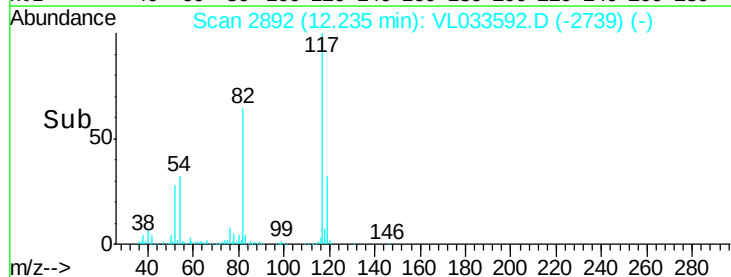
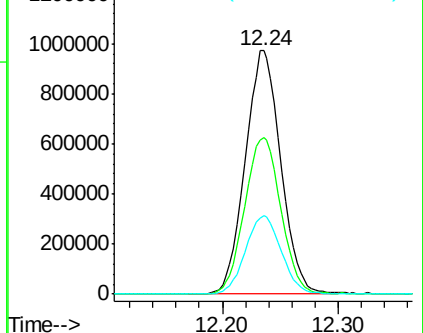
119 32.7 25.5 38.3

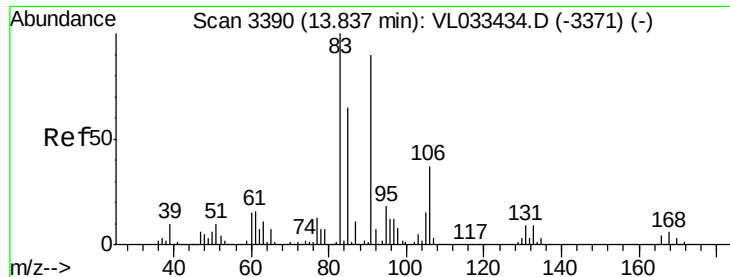


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

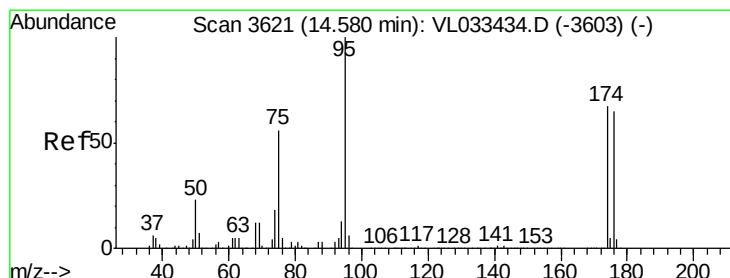
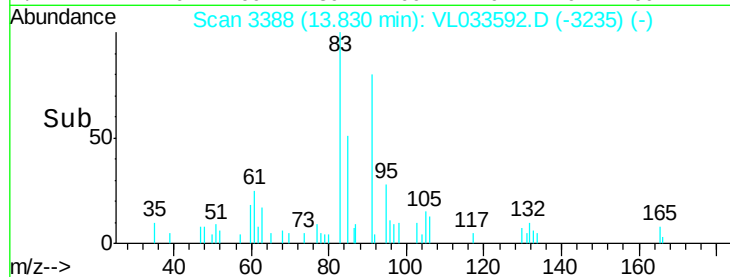
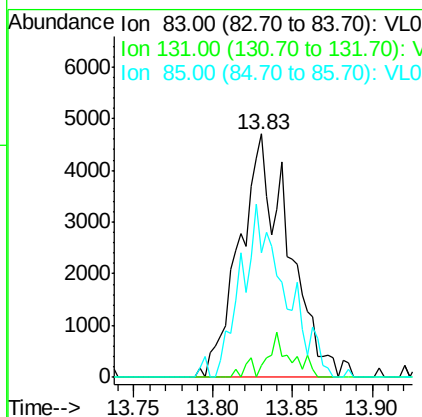
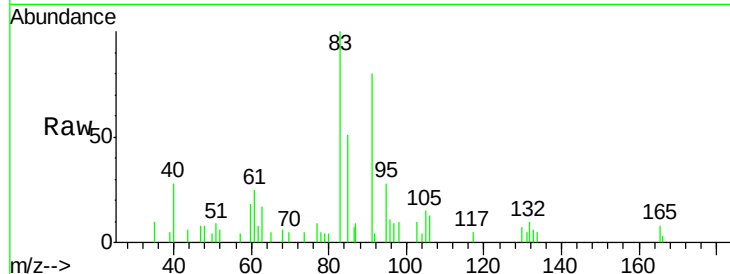




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.057 ppbv m
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.01 min
 Lab File: VL033592.D
 Acq: 16 Apr 2019 14:59

Instrument :
 MSVOA_L
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 LOQ-AIR-02-QT2-2019

Tot Ion: 83 Resp: 9969
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.7 14.0#
 85 64.8 32.7 98.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.222 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033592.D
 Acq: 16 Apr 2019 14:59

Tgt Ion: 95 Resp: 1664507
 Ion Ratio Lower Upper
 95 100
 174 67.3 52.9 79.3
 175 4.9 3.8 5.6

