

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033356.D
 Acq On : 16 Mar 2019 7:42
 Operator : SY/AP
 Sample : K1805-01DL2 800X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 18 07:53:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	713228	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1555449	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1739715	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1345215	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

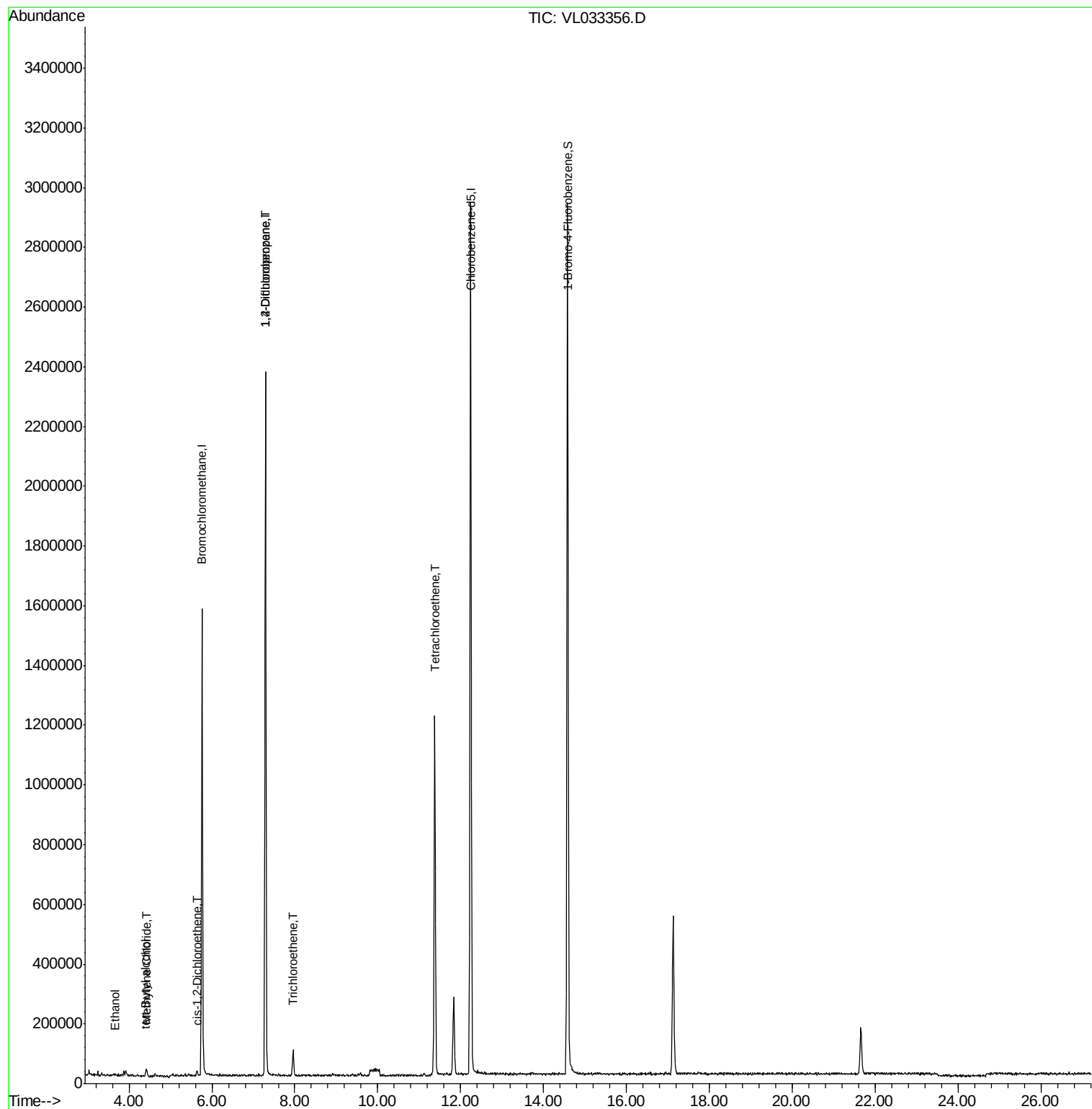
Target Compounds					Ovalue
13) Ethanol	3.66	45	872	0.050 ppbv #	38
17) tert-Butyl alcohol	4.39	59	428	0.027 ppbv #	74
20) Methylene Chloride	4.41	84	3597	0.099 ppbv #	81
31) cis-1,2-Dichloroethene	5.63	61	4513	0.063 ppbv #	76
38) Trichloroethene	7.96	130	19119	0.363 ppbv #	82
39) 1,2-Dichloropropane	7.29	63	435517	8.354 ppbv #	24
52) Tetrachloroethene	11.38	164	280011	4.828 ppbv	98

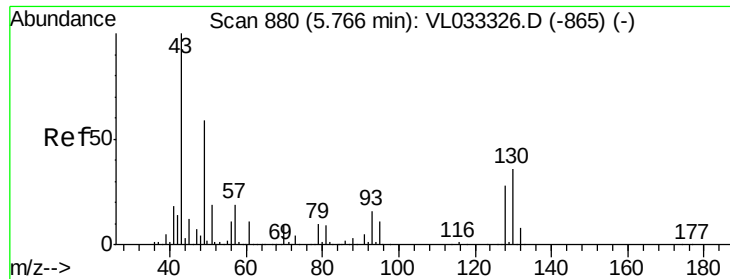
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
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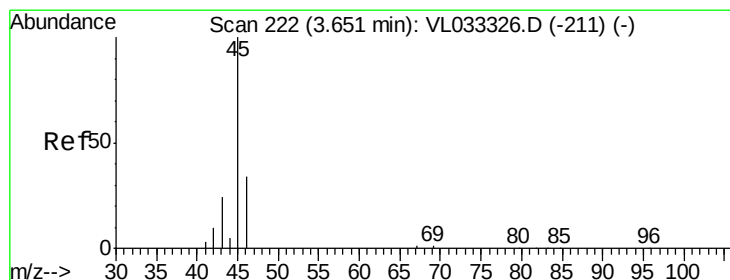
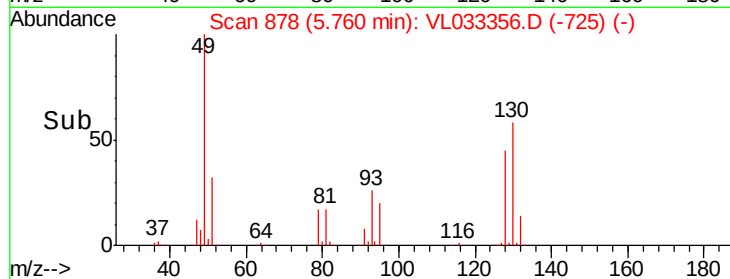
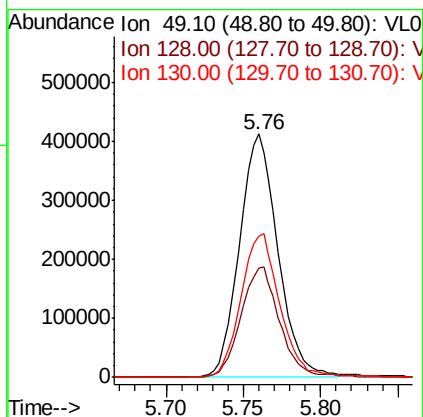
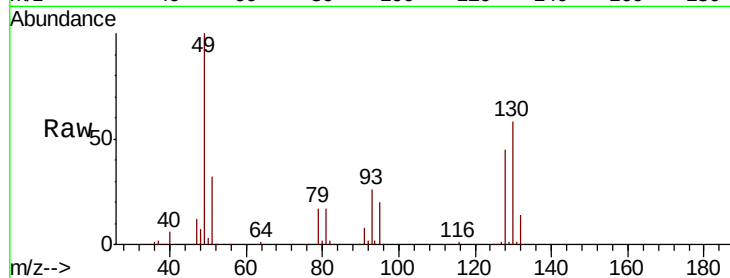




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033356.D
Acq: 16 Mar 2019 7:42

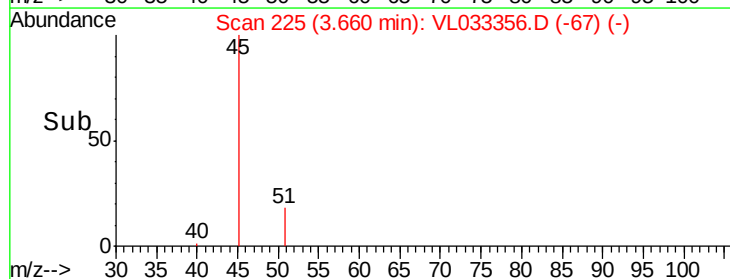
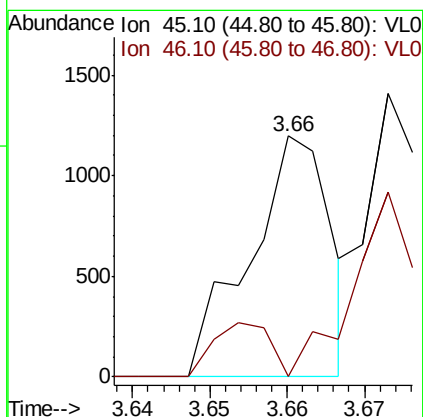
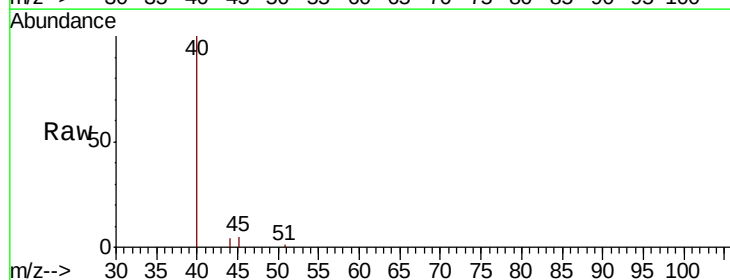
Instrument :
MSVOA_L
ClientSampleId :

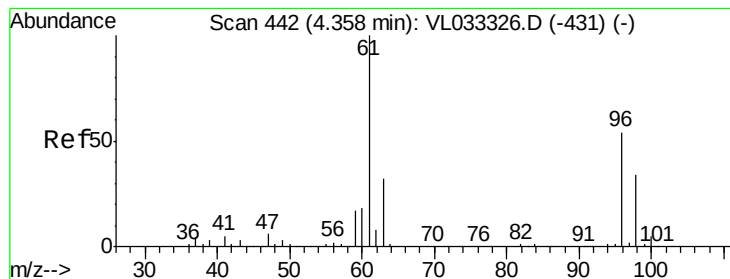
Tot Ion: 49 Resp: 713228
Ion Ratio Lower Upper
49 100
128 46.1 23.5 70.6
130 60.2 30.1 90.3



#13
Ethanol
Concen: 0.050 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033356.D
Acq: 16 Mar 2019 7:42

Tgt Ion: 45 Resp: 872
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.7#





#17

tert-Butyl alcohol

Concen: 0.027 ppbv

RT: 4.39 min Scan# 451

Delta R.T. 0.03 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

Instrument :

MSVOA_L

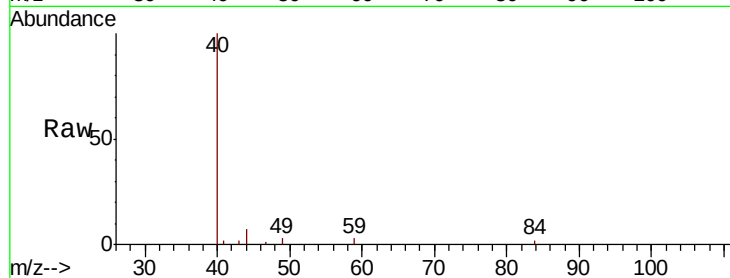
ClientSampleId :

Tot Ion: 59 Resp: 428

Ion Ratio Lower Upper

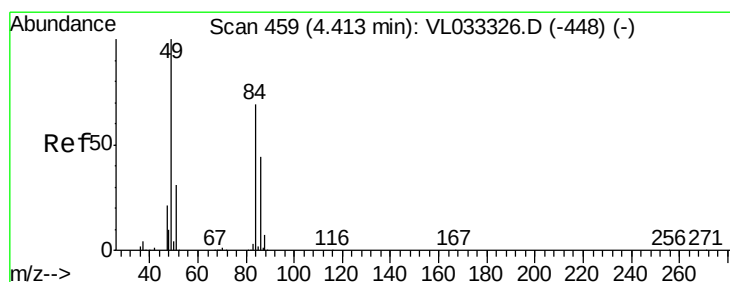
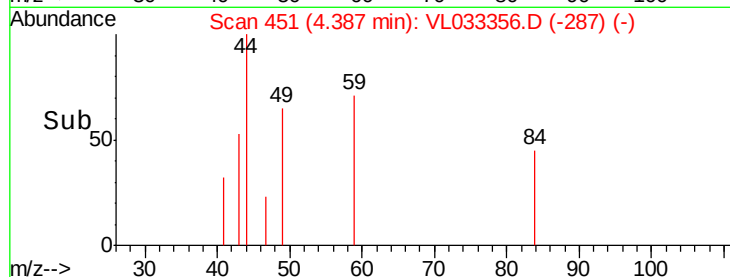
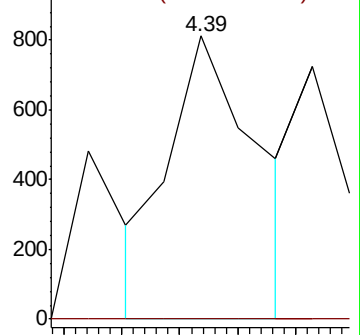
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#20

Methylene Chloride

Concen: 0.099 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

Tgt Ion: 84 Resp: 3597

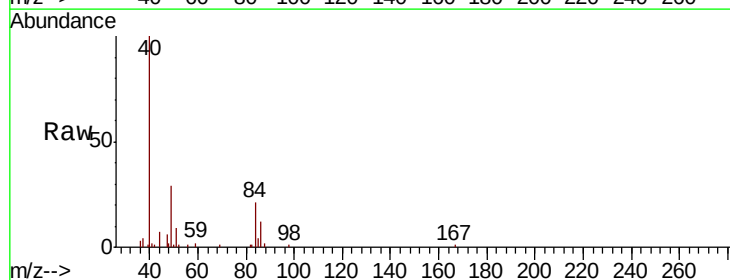
Ion Ratio Lower Upper

84 100

49 130.5 115.4 173.0

51 5.2 35.8 53.6#

86 56.9 50.6 75.8

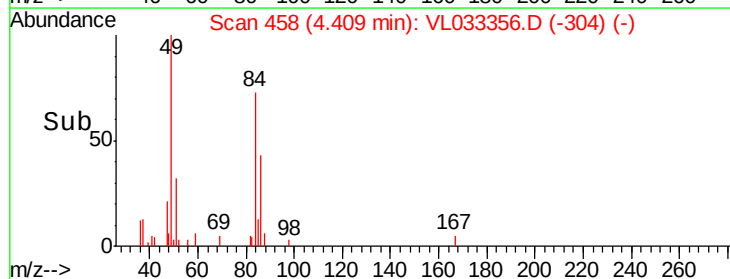
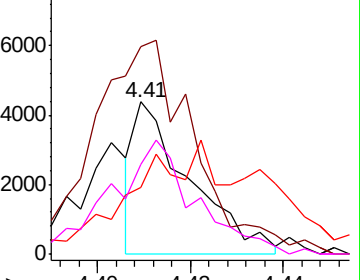


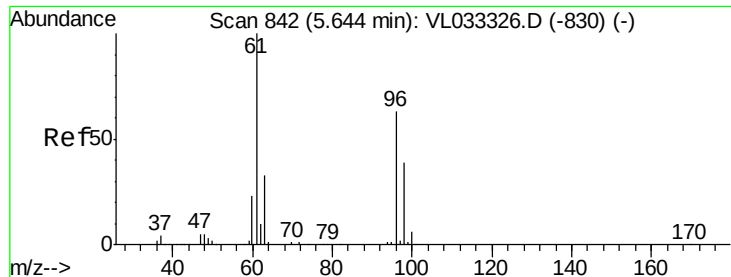
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.063 ppbv

RT: 5.63 min Scan# 839

Delta R.T. -0.01 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

Instrument :

MSVOA_L

ClientSampleId :

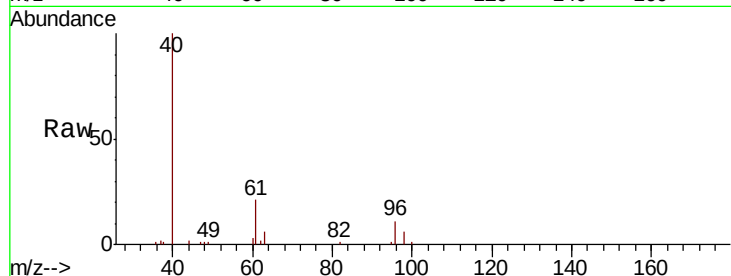
Tot Ion: 61 Resp: 4513

Ion Ratio Lower Upper

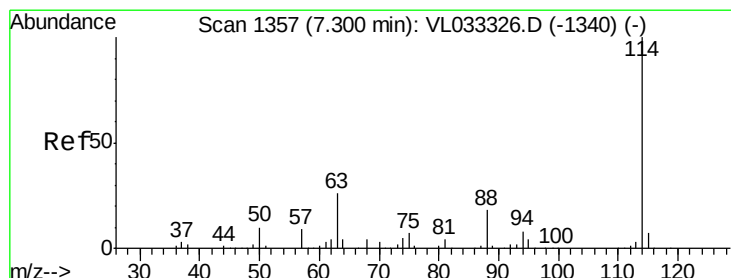
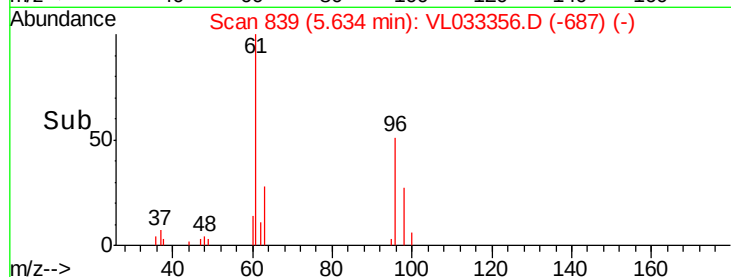
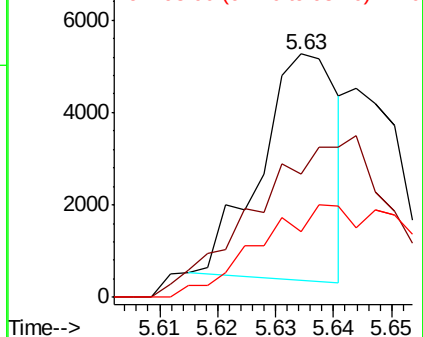
61 100

96 43.8 50.3 75.5#

98 24.6 31.5 47.3#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

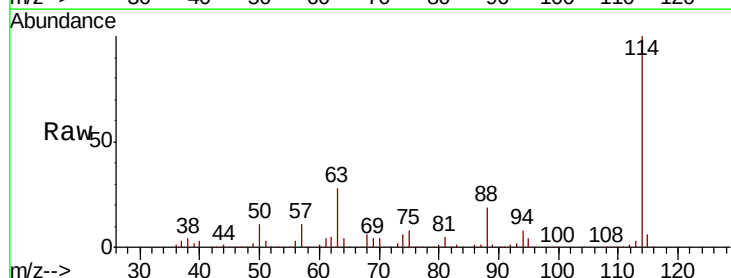
Tgt Ion: 114 Resp: 1555449

Ion Ratio Lower Upper

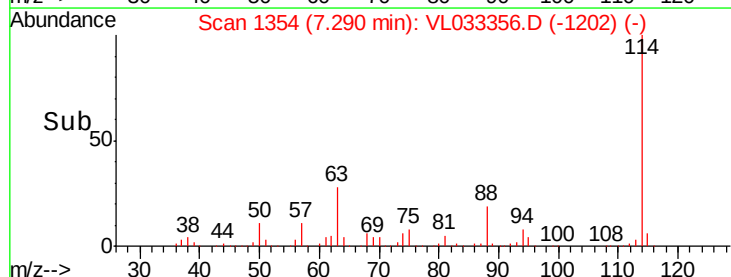
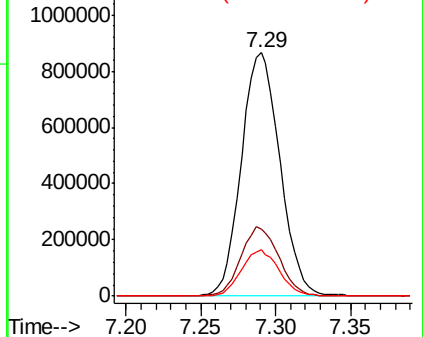
114 100

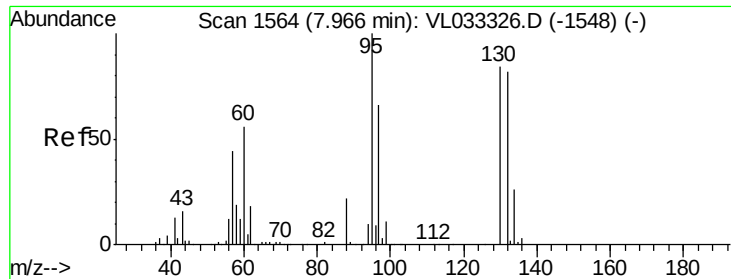
63 28.2 21.4 32.2

88 18.6 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

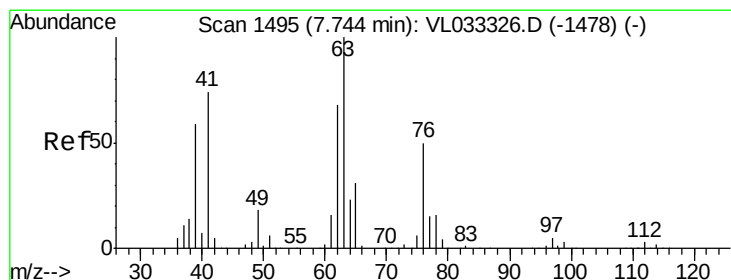
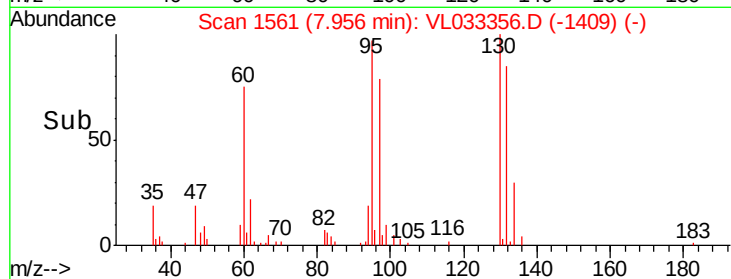
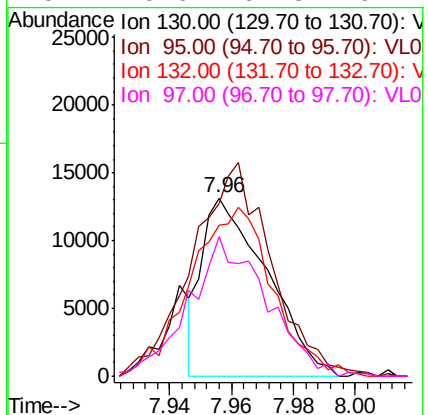
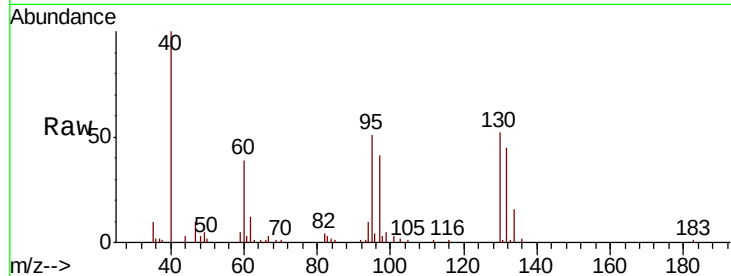




#38
 Trichloroethene
 Concen: 0.363 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033356.D
 Acq: 16 Mar 2019 7:42

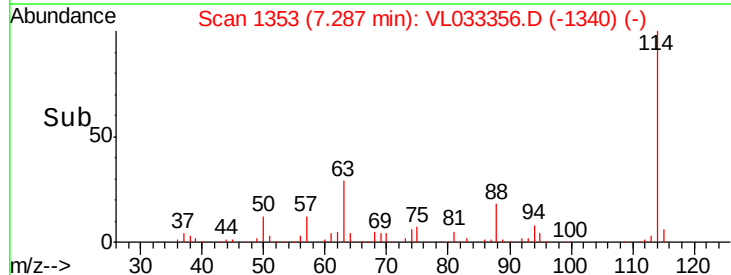
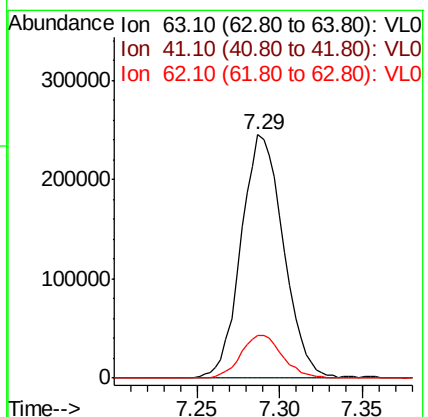
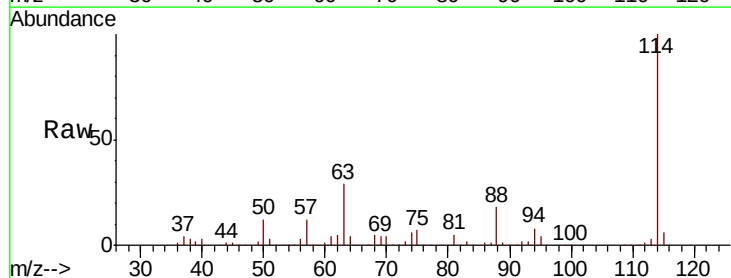
Instrument :
 MSVOA_L
 ClientSampleId :

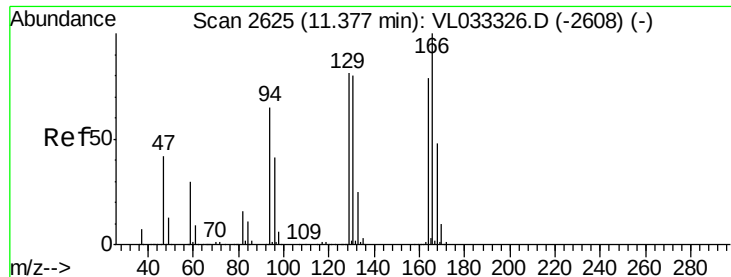
Tot Ion:130 Resp: 19119
 Ion Ratio Lower Upper
 130 100
 95 89.2 95.2 142.8#
 132 79.0 77.7 116.5
 97 76.6 62.8 94.2



#39
 1,2-Dichloropropane
 Concen: 8.354 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.46 min
 Lab File: VL033356.D
 Acq: 16 Mar 2019 7:42

Tgt Ion: 63 Resp: 435517
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.5 89.3#
 62 17.5 54.7 82.1#





#52

Tetrachloroethene

Concen: 4.828 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 280011

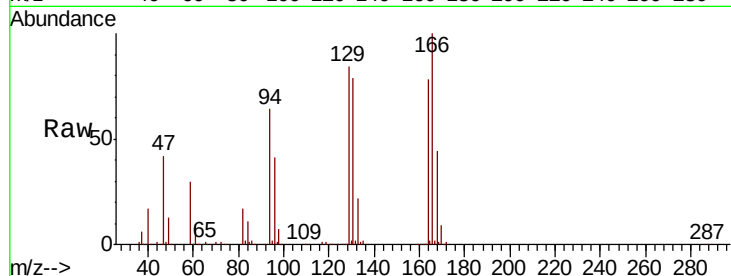
Ion Ratio Lower Upper

164 100

166 127.2 101.5 152.3

129 107.5 82.2 123.2

131 100.1 81.1 121.7

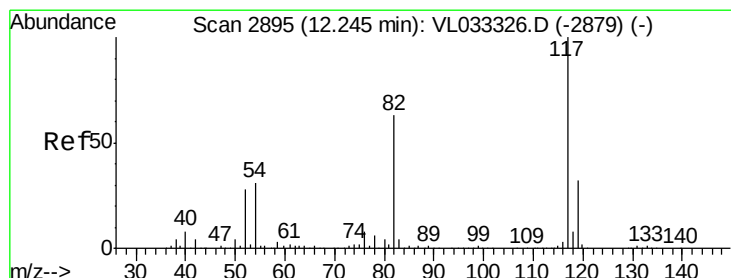
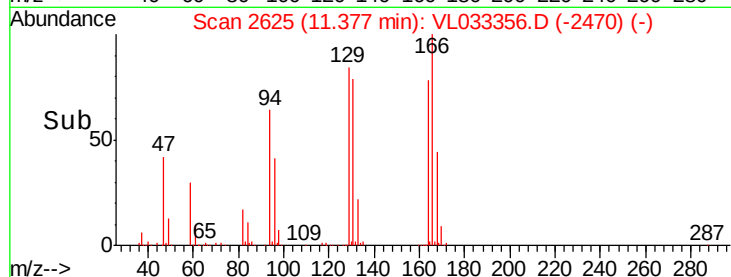
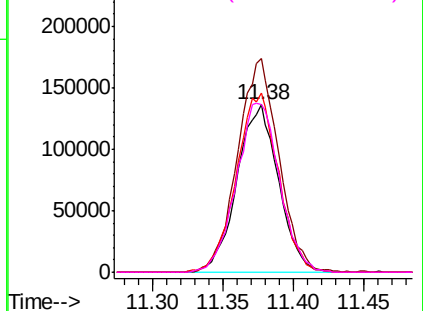


Abundance Ion 163.90 (163.60 to 164.60): V

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# 2893

Delta R.T. -0.01 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

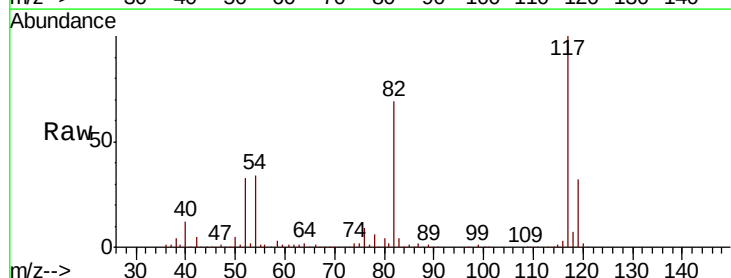
Tgt Ion:117 Resp: 1739715

Ion Ratio Lower Upper

117 100

82 68.8 53.4 80.2

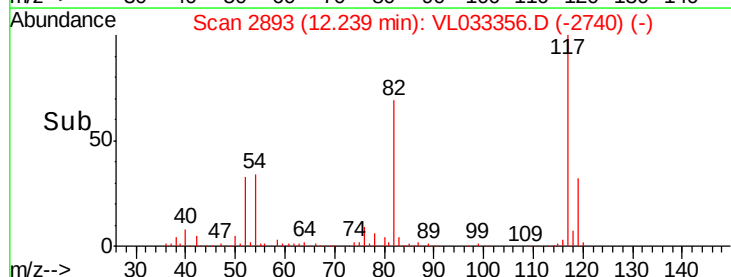
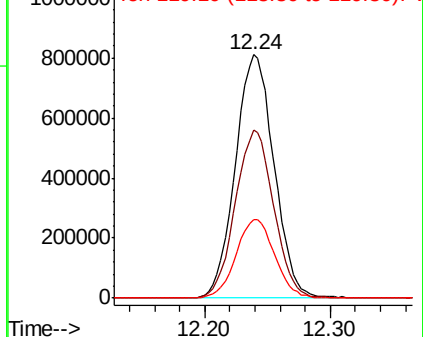
119 32.4 27.3 40.9

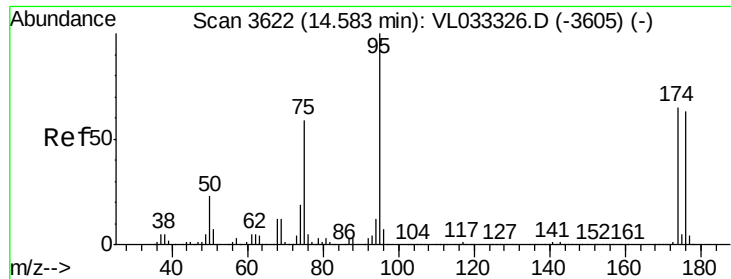


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.435 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033356.D

Acq: 16 Mar 2019 7:42

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 1345215

Ion Ratio Lower Upper

95 100

174 63.7 51.5 77.3

175 4.4 3.8 5.6

