

Data File : VL033380.D
Acq On : 19 Mar 2019 5:11
Operator : SY/AP
Sample : K1805-04DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-1DL

Quant Time: Mar 19 10:21:32 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	812962	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1777087	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1749097	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1332598	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

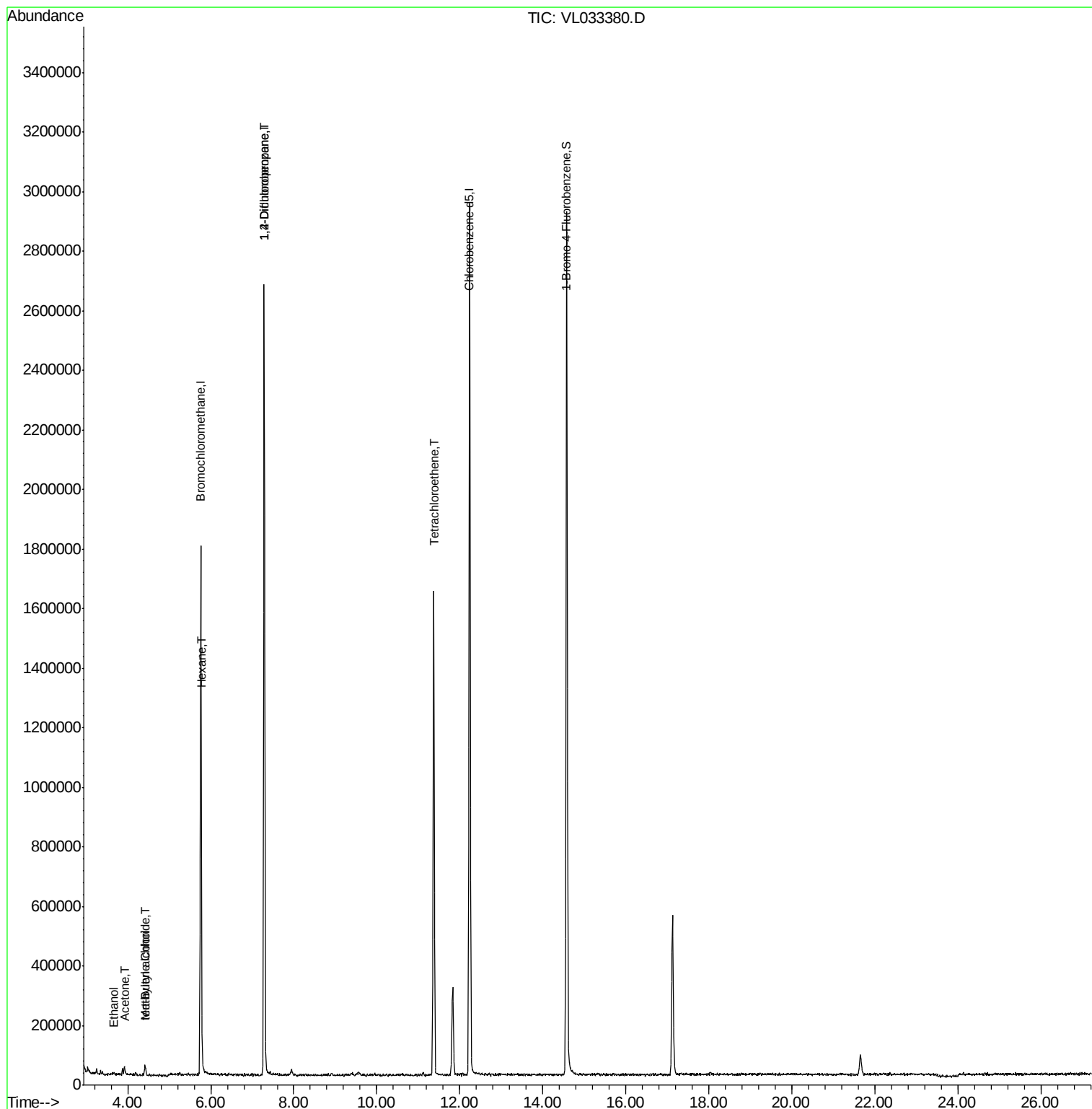
Target Compounds						Qvalue
13) Ethanol	3.67	45	2378	0.120	ppbv	92
15) Acetone	3.92	43	24033	0.190	ppbv	92
17) tert-Butyl alcohol	4.40	59	549	0.031	ppbv #	74
20) Methylene Chloride	4.41	84	4034	0.098	ppbv	90
26) Hexane	5.78	57	4922	0.060	ppbv #	38
39) 1,2-Dichloropropane	7.29	63	489912	8.226	ppbv #	24
52) Tetrachloroethene	11.37	164	380884	5.749	ppbv	98

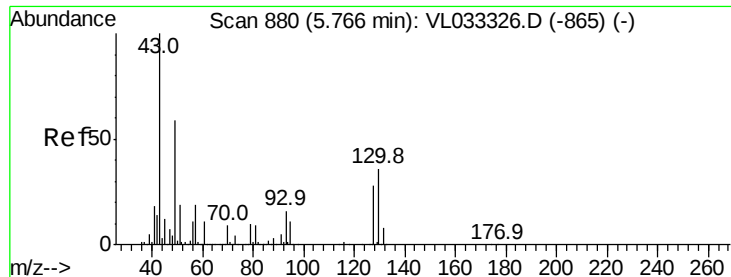
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1DL

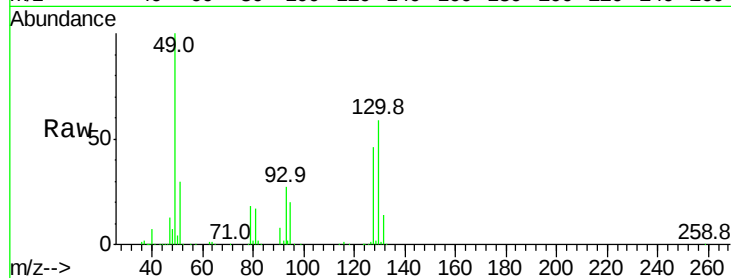
Tgt Ion: 49 Resp: 812962

Ion Ratio Lower Upper

49 100

128 47.5 23.5 70.6

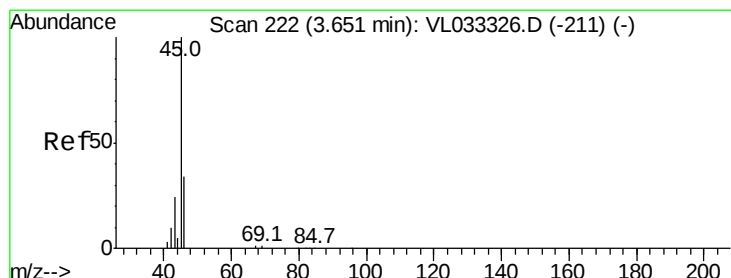
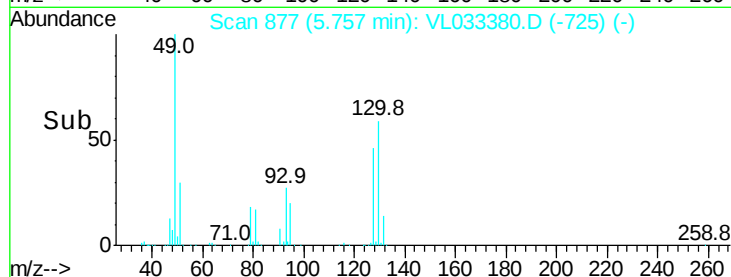
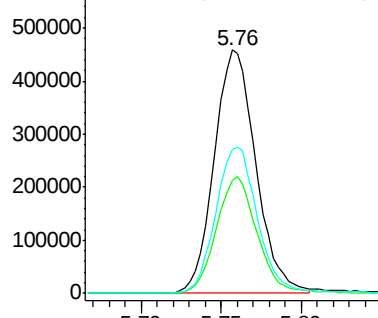
130 61.2 30.1 90.3



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



#13

Ethanol

Concen: 0.120 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL033380.D

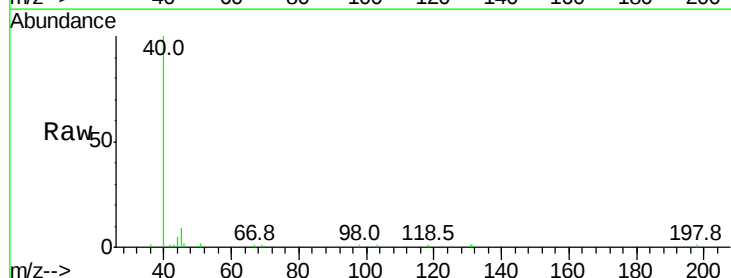
Acq: 19 Mar 2019 5:11

Tgt Ion: 45 Resp: 2378

Ion Ratio Lower Upper

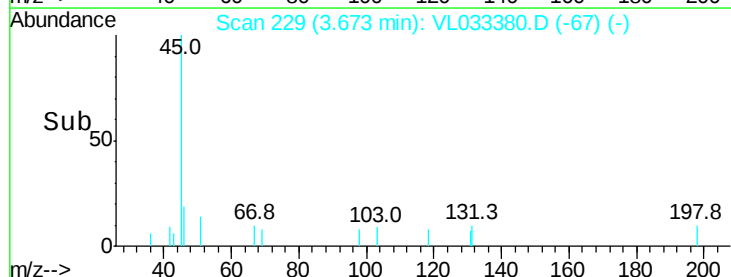
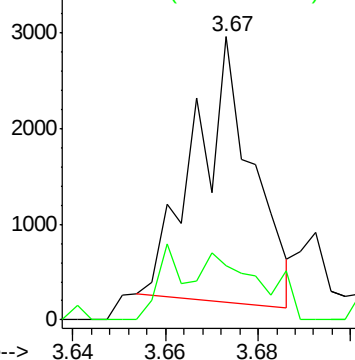
45 100

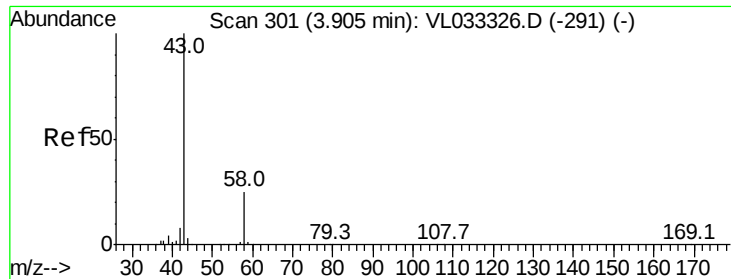
46 42.1 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.190 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

Instrument :

MSVOA_L

ClientSampleId :

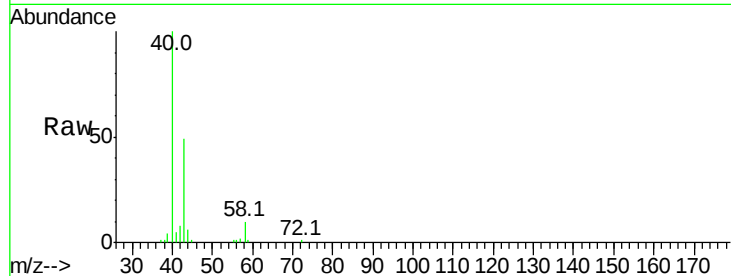
ST-SS-1DL

Tgt Ion: 43 Resp: 24033

Ion Ratio Lower Upper

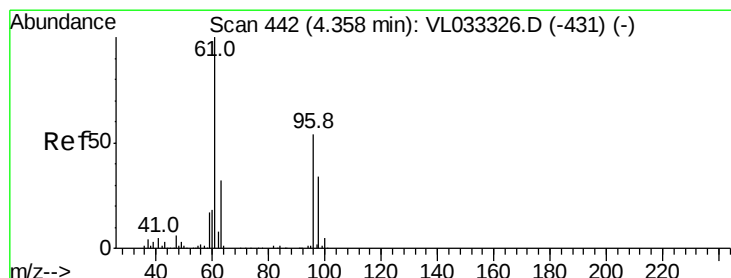
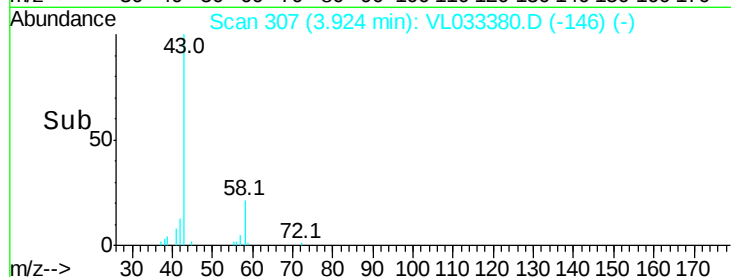
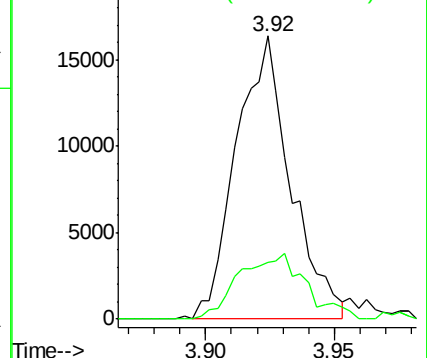
43 100

58 29.5 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.031 ppbv

RT: 4.40 min Scan# 456

Delta R.T. 0.04 min

Lab File: VL033380.D

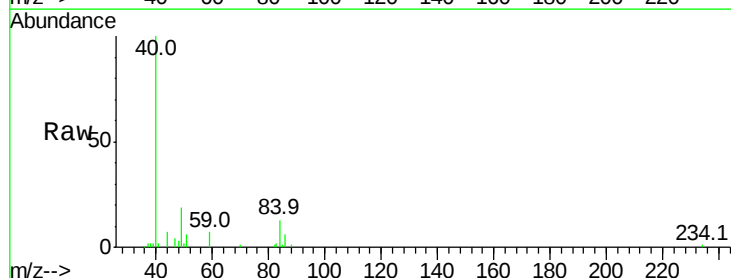
Acq: 19 Mar 2019 5:11

Tgt Ion: 59 Resp: 549

Ion Ratio Lower Upper

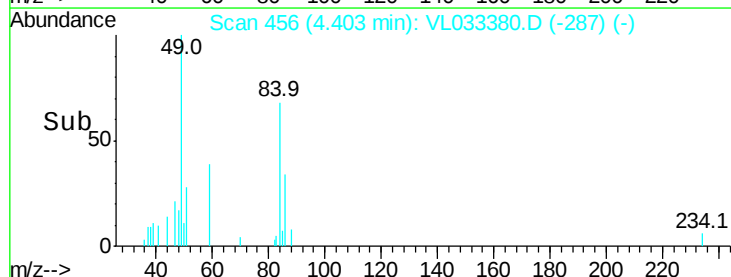
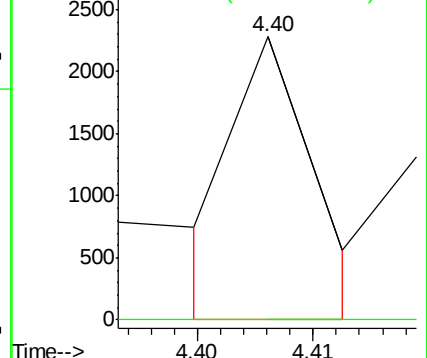
59 100

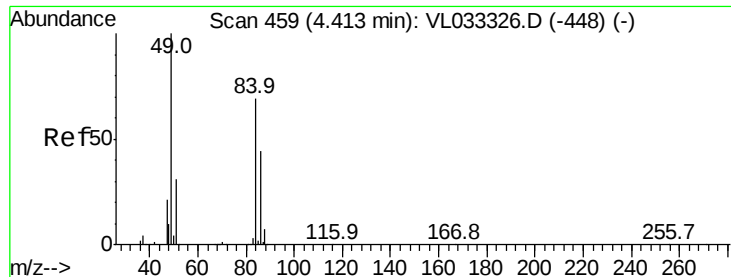
57 0.0 7.7 11.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

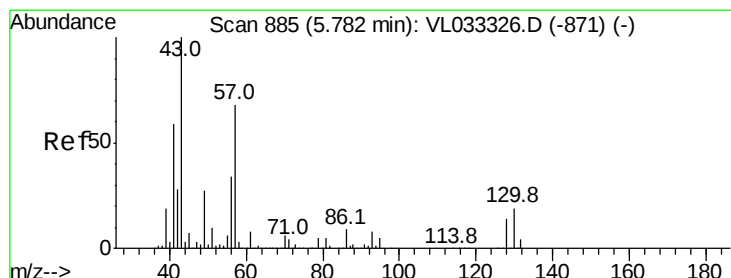
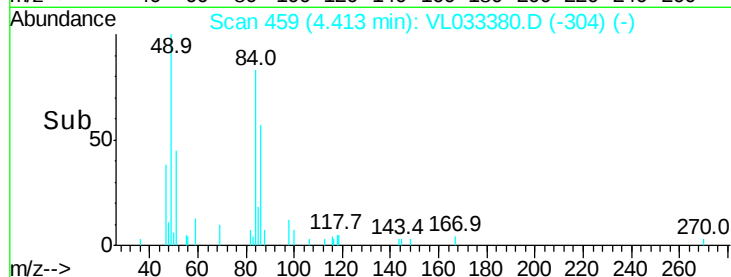
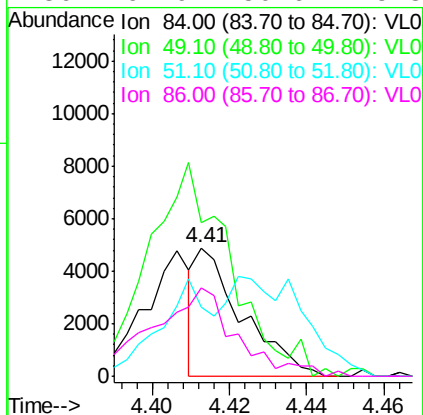
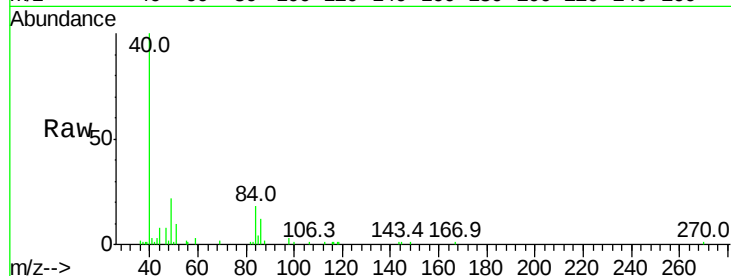




#20
Methylene Chloride
Concen: 0.098 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL033380.D
Acq: 19 Mar 2019 5:11

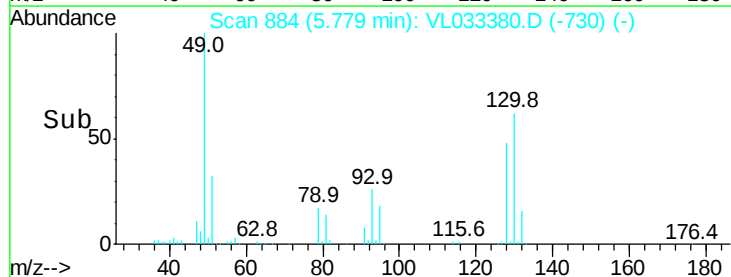
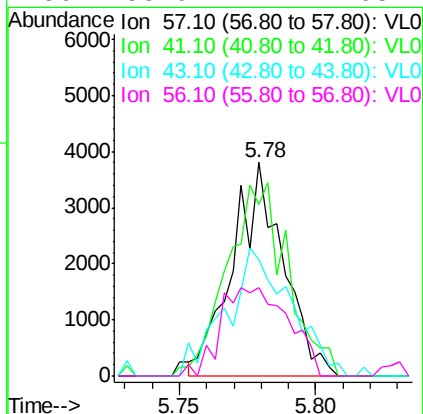
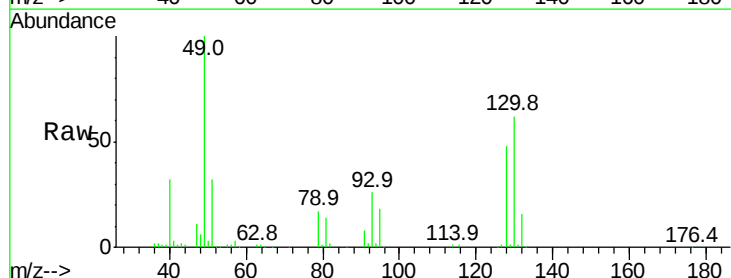
Instrument :
MSVOA_L
ClientSampleId :
ST-SS-1DL

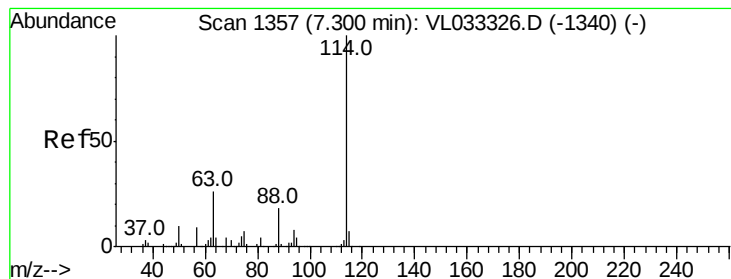
Tgt Ion:	84	Resp:	4034
Ion	Ratio	Lower	Upper
84	100		
49	128.1	115.4	173.0
51	37.0	35.8	53.6
86	64.9	50.6	75.8



#26
Hexane
Concen: 0.060 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033380.D
Acq: 19 Mar 2019 5:11

Tgt Ion:	57	Resp:	4922
Ion	Ratio	Lower	Upper
57	100		
41	106.9	70.5	105.7#
43	75.9	181.8	272.8#
56	55.9	42.2	63.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1DL

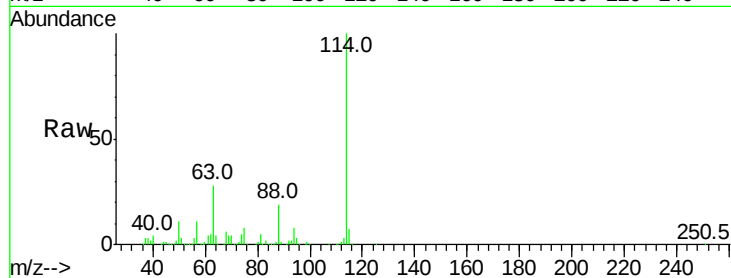
Tgt Ion:114 Resp: 1777087

Ion Ratio Lower Upper

114 100

63 27.7 21.4 32.2

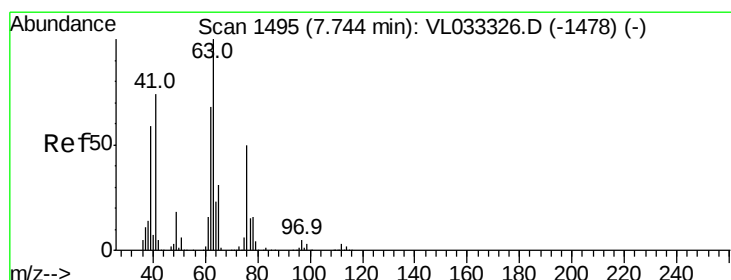
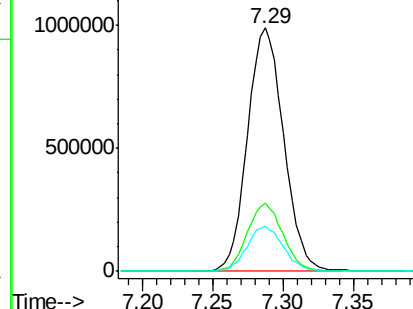
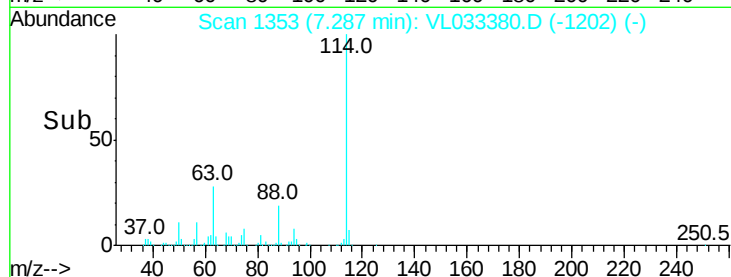
88 18.4 14.5 21.7



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



#39

1,2-Dichloropropane

Concen: 8.226 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.46 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

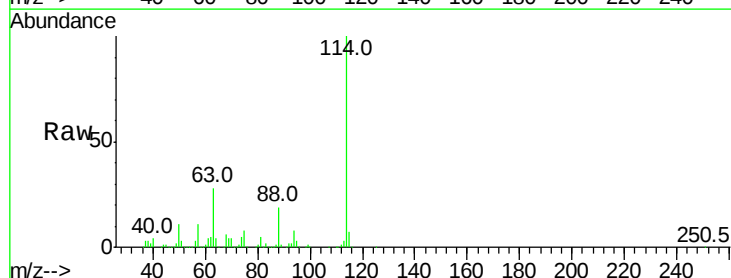
Tgt Ion: 63 Resp: 489912

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

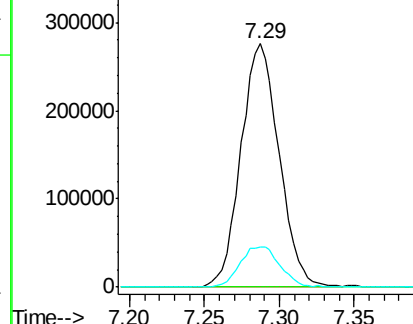
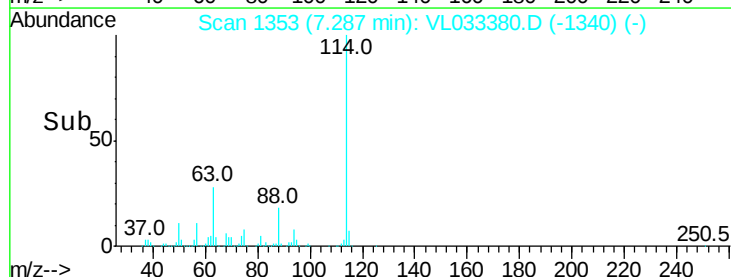
62 16.5 54.7 82.1#

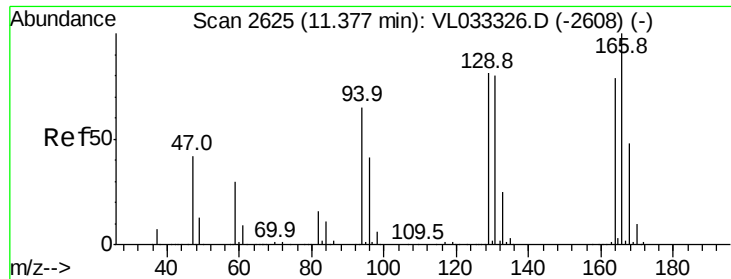


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 5.749 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1DL

Tgt Ion:164 Resp: 380884

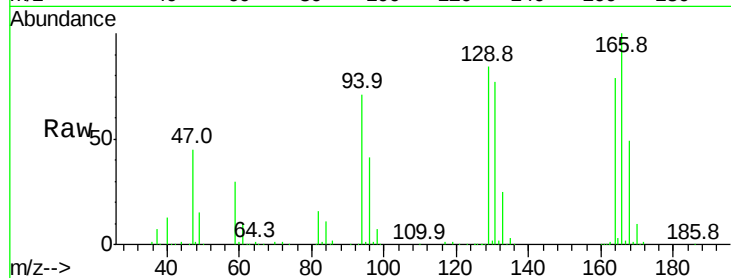
Ion Ratio Lower Upper

164 100

166 126.4 101.5 152.3

129 106.1 82.2 123.2

131 97.3 81.1 121.7

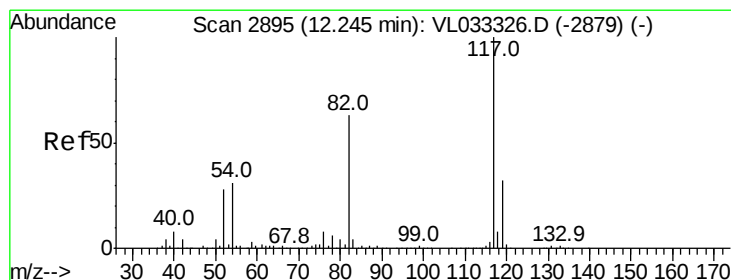
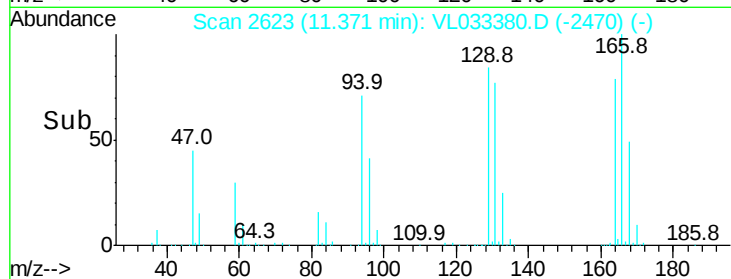
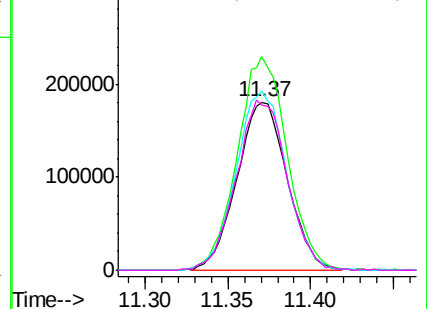


Abundance Ion 163.90 (163.60 to 164.60): V

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# 2892

Delta R.T. -0.01 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

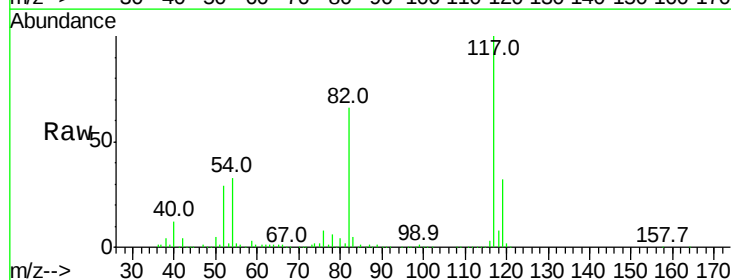
Tgt Ion:117 Resp: 1749097

Ion Ratio Lower Upper

117 100

82 68.1 53.4 80.2

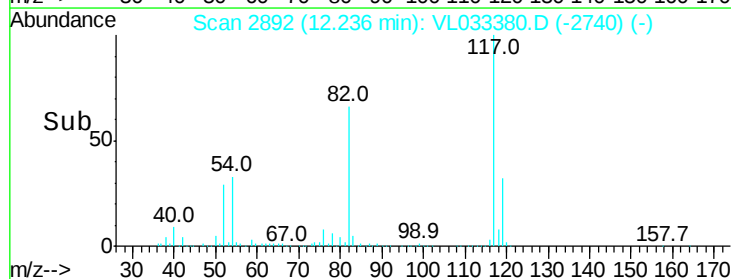
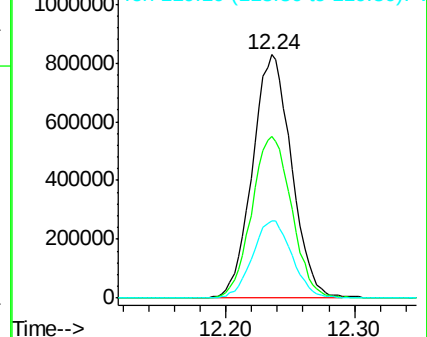
119 32.2 27.3 40.9

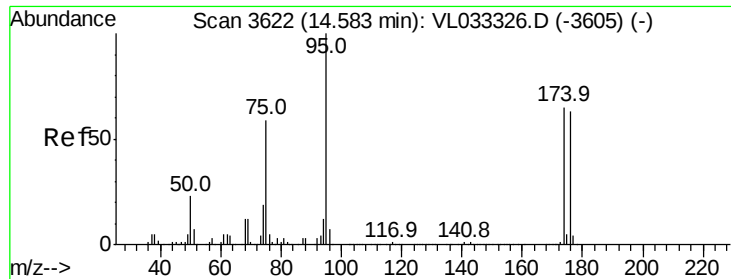


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.282 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033380.D

Acq: 19 Mar 2019 5:11

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-1DL

Tgt Ion: 95 Resp: 1332598

Ion Ratio Lower Upper

95 100

174 64.7 51.5 77.3

175 4.7 3.8 5.6

