

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032969.D
 Acq On : 12 Dec 2018 00:35
 Operator : SY/AP
 Sample : J6338-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 02:23:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1324487	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3297114	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3019647	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2159125	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

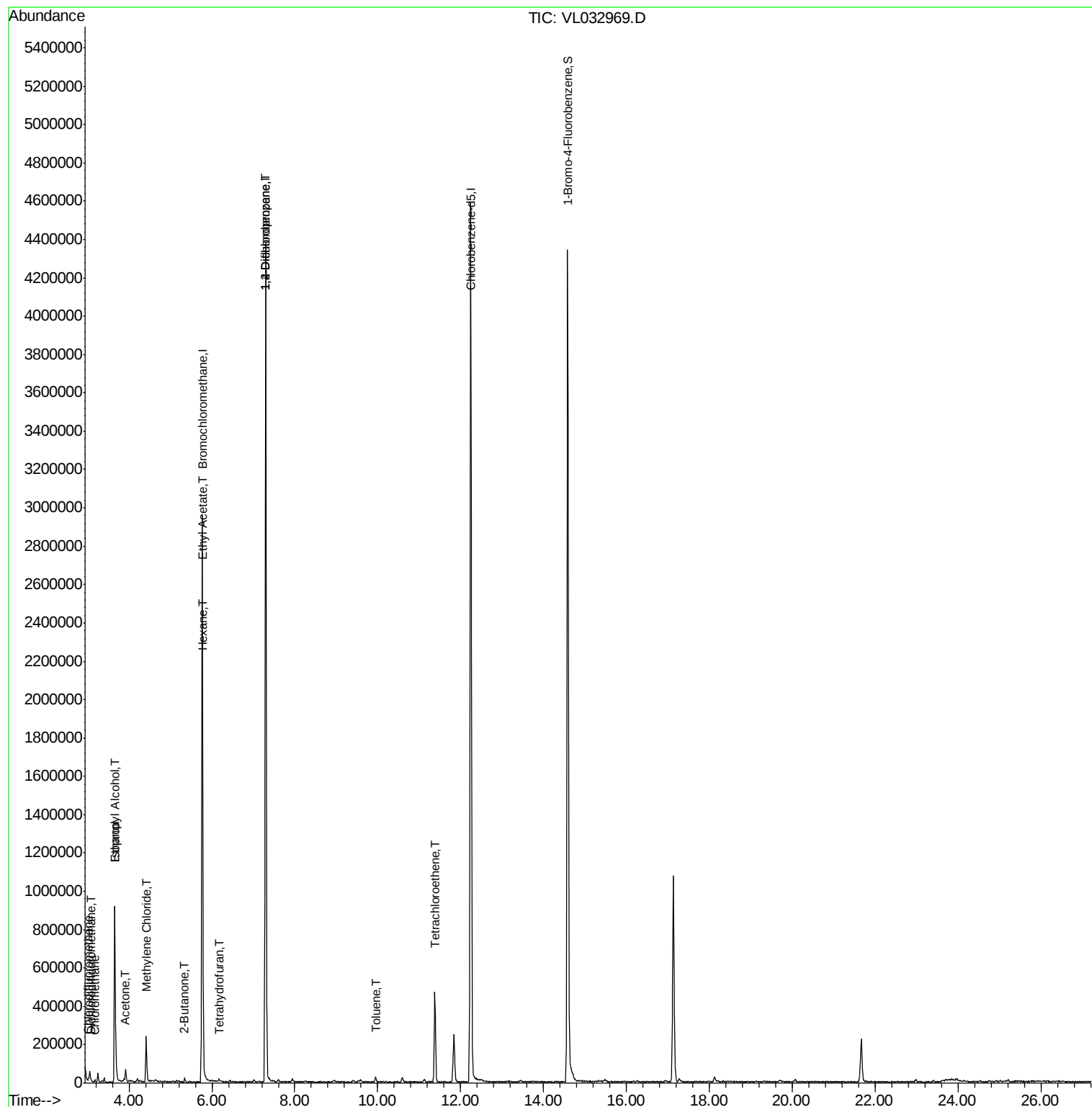
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	10215	0.058	ppbv	90
3) Chlorodifluoromethane	3.02	51	8670	0.086	ppbv	97
4) Chloromethane	3.17	50	5974	0.102	ppbv	98
13) Ethanol	3.65	45	1014321	74.275	ppbv	96
15) Acetone	3.92	43	54988	0.484	ppbv #	90
19) Isopropyl Alcohol	3.65	45	1014321	14.207	ppbv #	95
20) Methylene Chloride	4.42	84	84266	1.517	ppbv	91
25) Ethyl Acetate	5.78	43	36303	0.135	ppbv #	93
26) Hexane	5.79	57	36611	0.295	ppbv #	57
34) 2-Butanone	5.34	43	22982	0.160	ppbv	97
39) 1,2-Dichloropropane	7.30	63	777991	8.459	ppbv #	21
41) Tetrahydrofuran	6.17	42	3121	0.035	ppbv #	53
52) Tetrachloroethene	11.38	164	57788	0.655	ppbv	93
53) Toluene	9.95	91	18195	0.071	ppbv	90

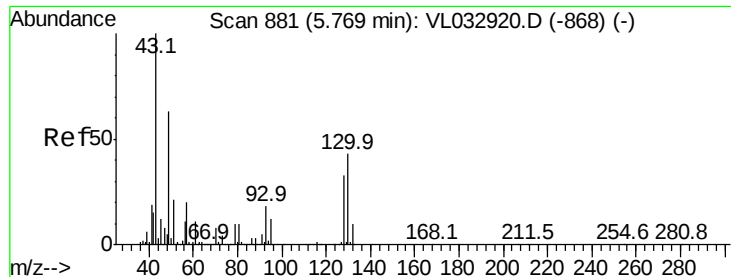
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

Instrument :
MSVOA_L
ClientSampleId :

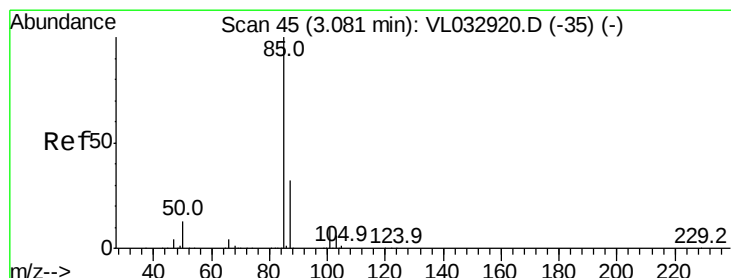
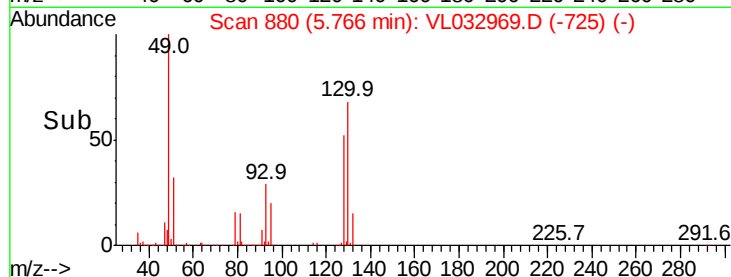
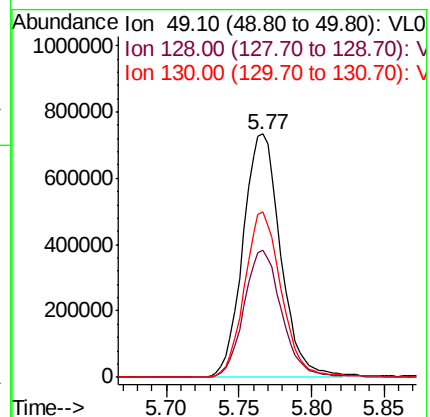
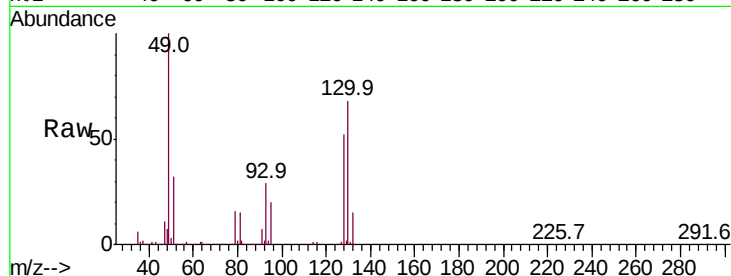
Tot Ion: 49 Resp: 1324487

Ion Ratio Lower Upper

49 100

128 52.9 26.3 78.8

130 67.2 33.9 101.7



#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032969.D

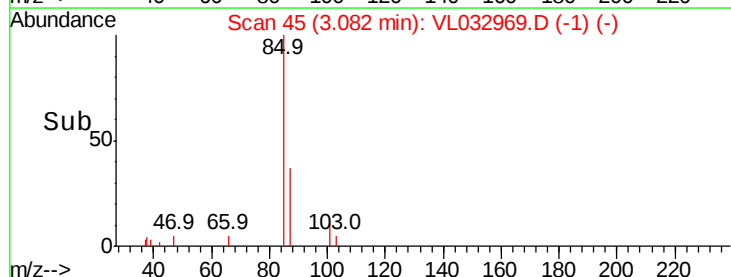
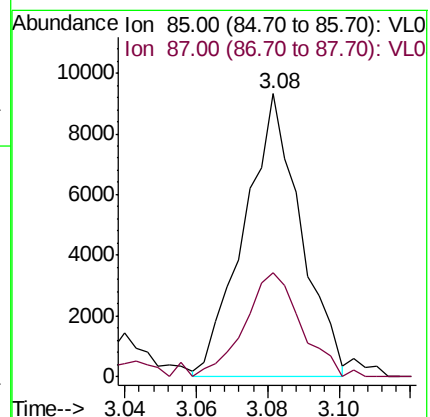
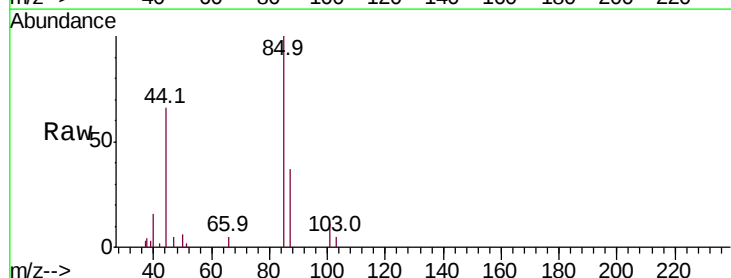
Acq: 12 Dec 2018 00:35

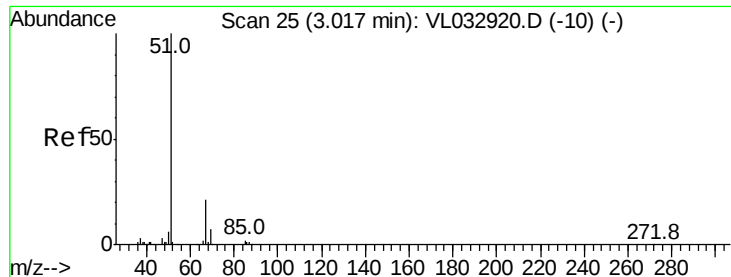
Tgt Ion: 85 Resp: 10215

Ion Ratio Lower Upper

85 100

87 37.5 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.086 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

Instrument :

MSVOA_L

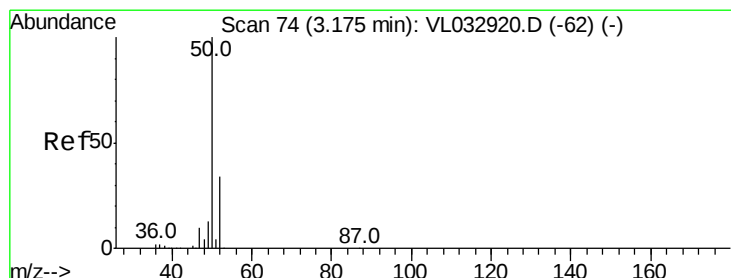
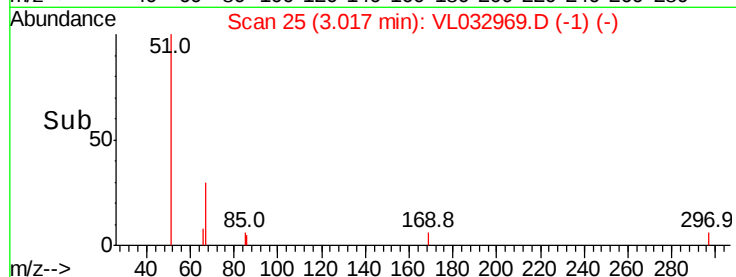
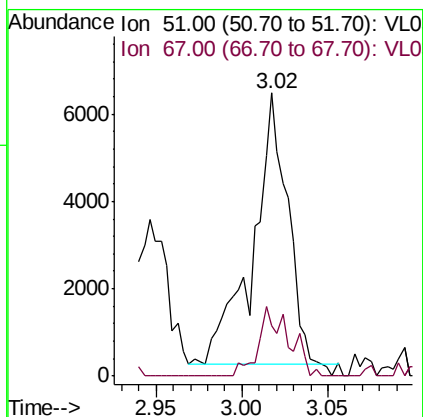
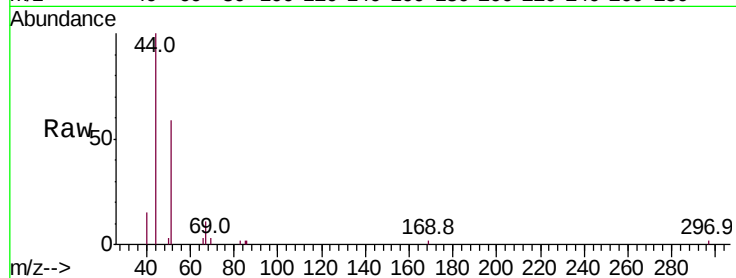
ClientSampleId :

Tot Ion: 51 Resp: 8670

Ion Ratio Lower Upper

51 100

67 22.3 16.8 25.2



#4

Chloromethane

Concen: 0.102 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032969.D

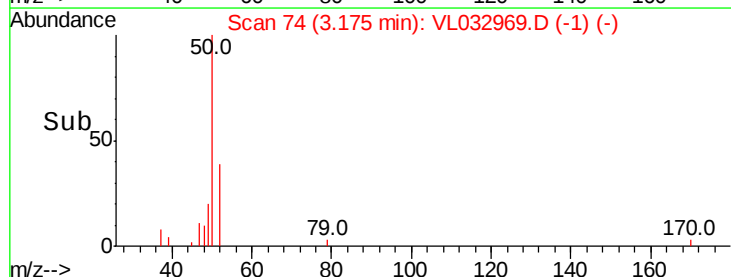
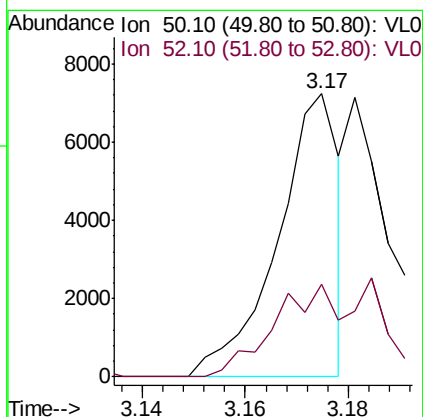
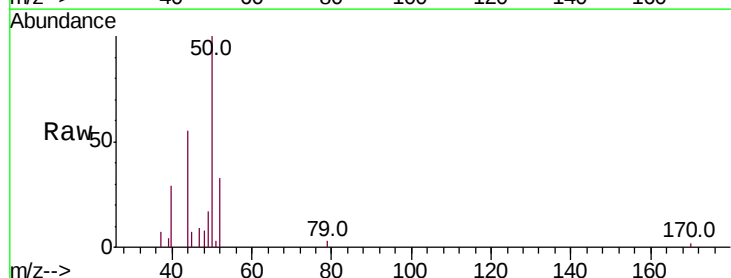
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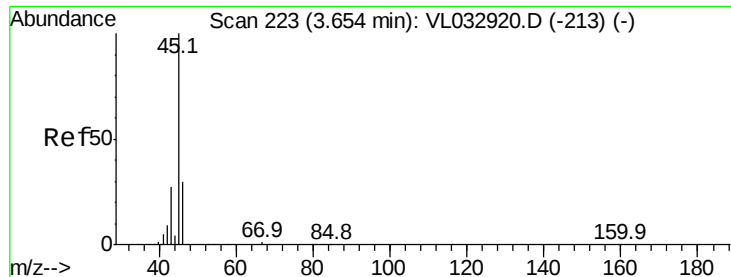
Tgt Ion: 50 Resp: 5974

Ion Ratio Lower Upper

50 100

52 32.8 27.3 40.9

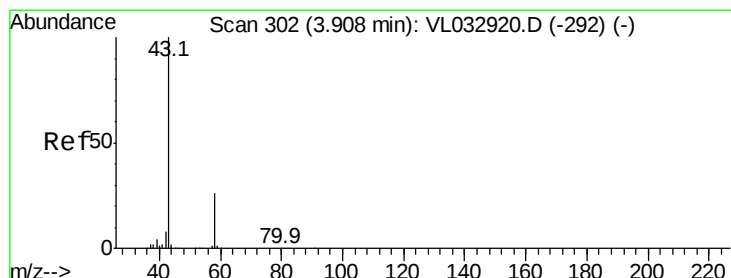
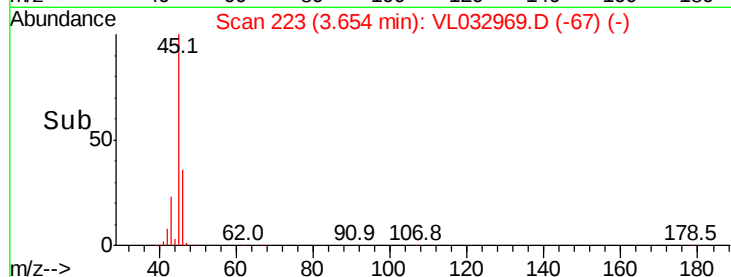
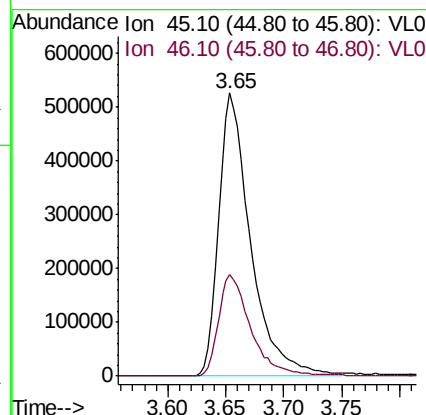
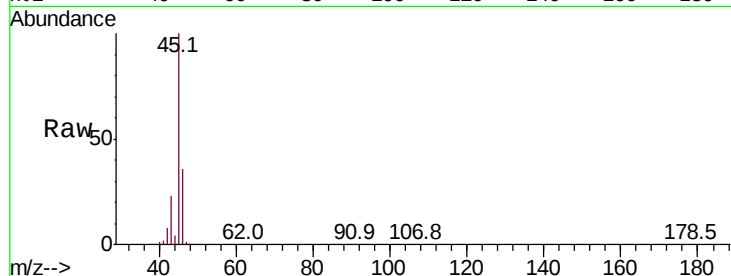




#13
Ethanol
Concen: 74.275 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL032969.D
Acq: 12 Dec 2018 00:35

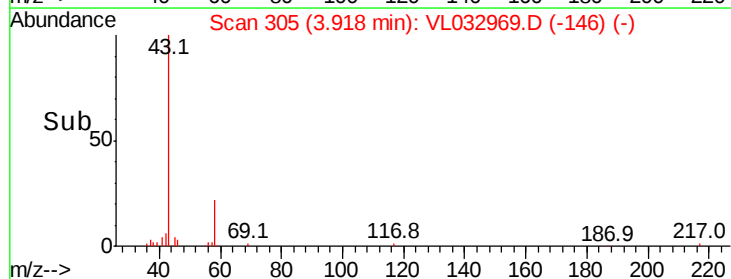
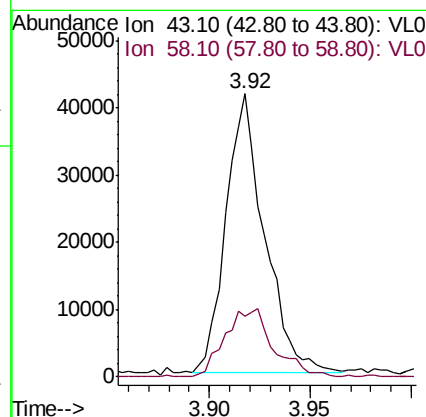
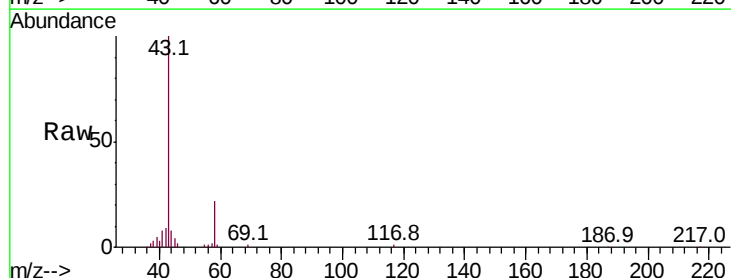
Instrument :
MSVOA_L
ClientSampleId :

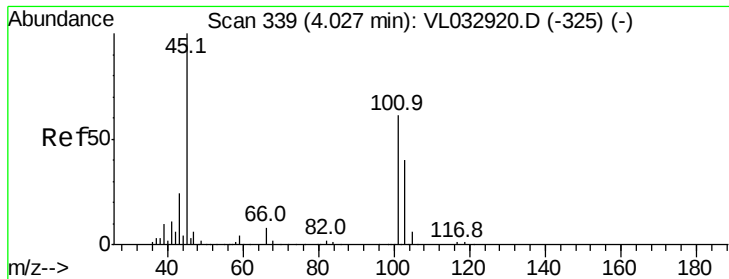
Tot Ion: 45 Resp: 1014321
Ion Ratio Lower Upper
45 100
46 36.8 13.8 55.4



#15
Acetone
Concen: 0.484 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.01 min
Lab File: VL032969.D
Acq: 12 Dec 2018 00:35

Tgt Ion: 43 Resp: 54988
Ion Ratio Lower Upper
43 100
58 31.0 20.6 30.8#



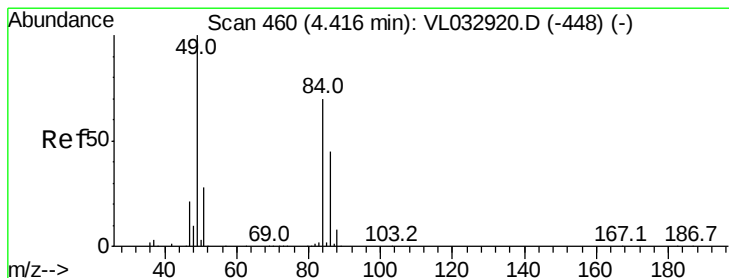
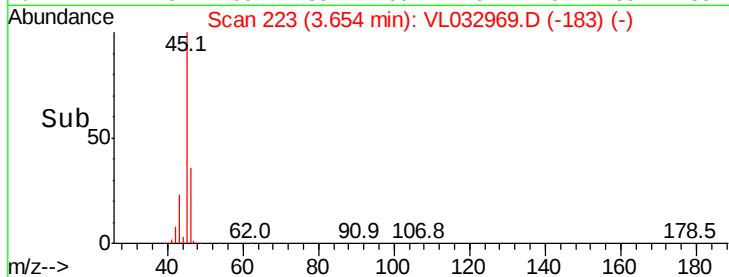
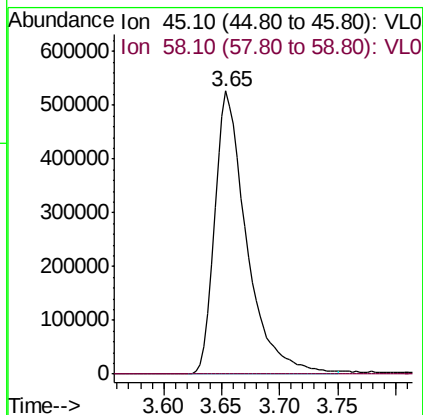
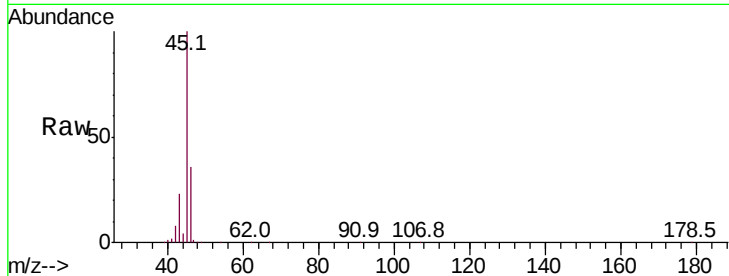


#19

Isopropyl Alcohol
 Concen: 14.207 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. -0.37 min
 Lab File: VL032969.D
 Acq: 12 Dec 2018 00:35

Instrument :
 MSVOA_L
 ClientSampleId :

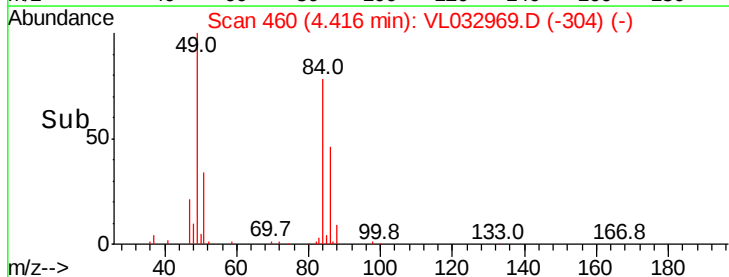
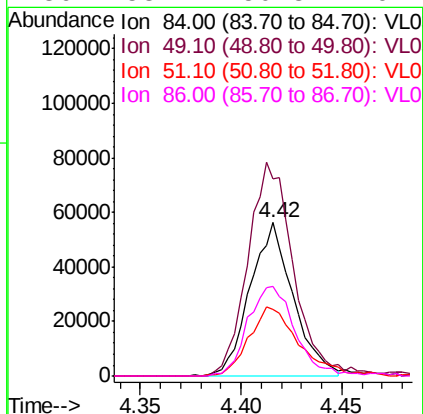
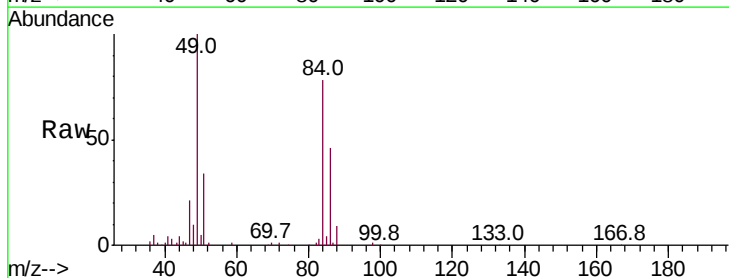
Tot Ion: 45 Resp: 1014321
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#

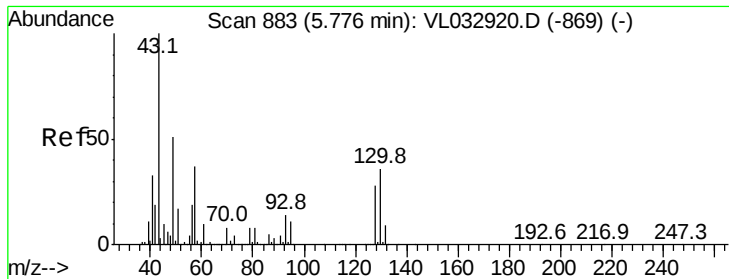


#20

Methylene Chloride
 Concen: 1.517 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL032969.D
 Acq: 12 Dec 2018 00:35

Tgt Ion: 84 Resp: 84266
 Ion Ratio Lower Upper
 84 100
 49 128.2 113.8 170.8
 51 43.1 31.8 47.8
 86 58.4 50.8 76.2





#25

Ethyl Acetate

Concen: 0.135 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

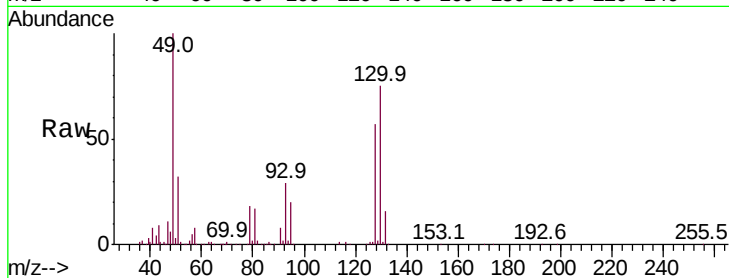
Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 36303

Ion	Ratio	Lower	Upper
43	100		
45	7.3	7.8	11.6#
61	6.3	7.4	11.2#
70	5.0	5.7	8.5#



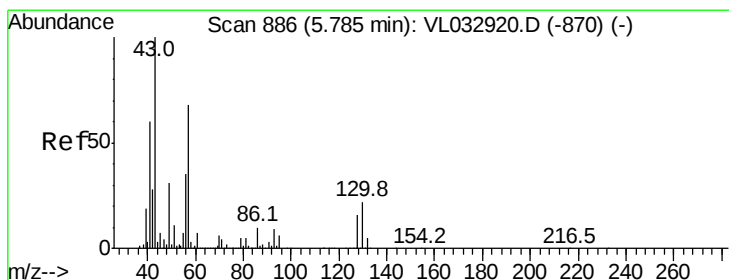
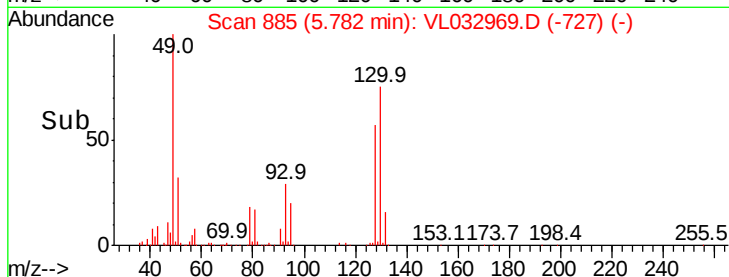
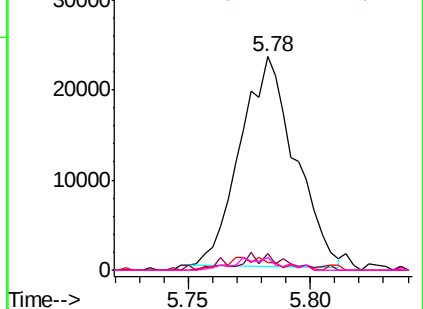
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.295 ppbv

RT: 5.79 min Scan# 886

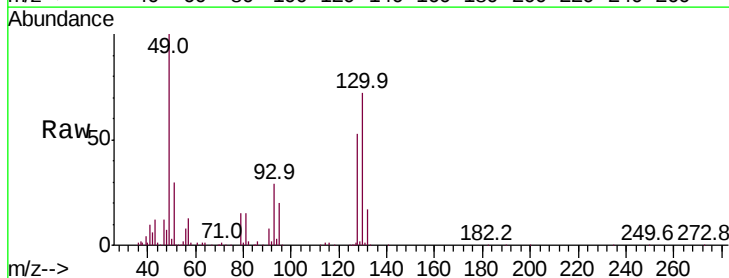
Delta R.T. 0.00 min

Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

Tgt Ion: 57 Resp: 36611

Ion	Ratio	Lower	Upper
57	100		
41	90.6	72.2	108.2
43	105.7	171.9	257.9#
56	58.7	42.2	63.2



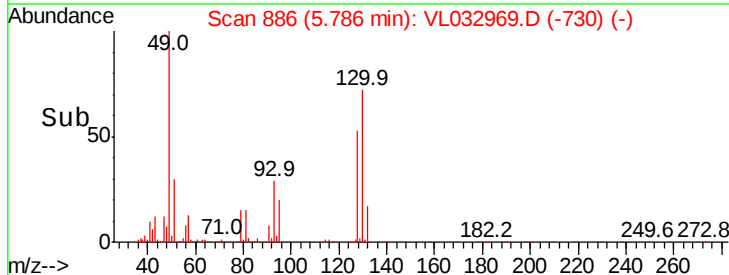
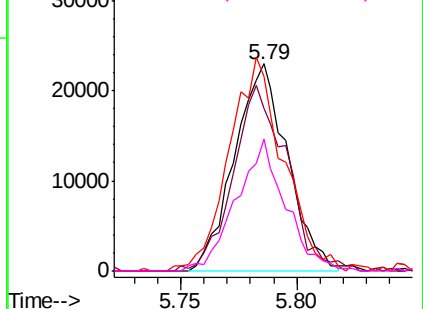
Abundance

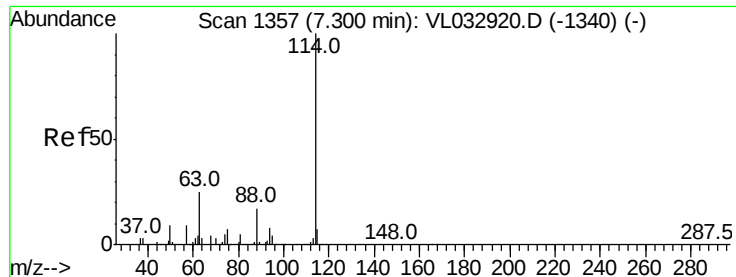
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

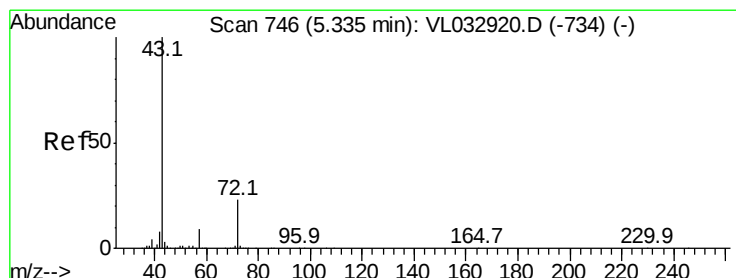
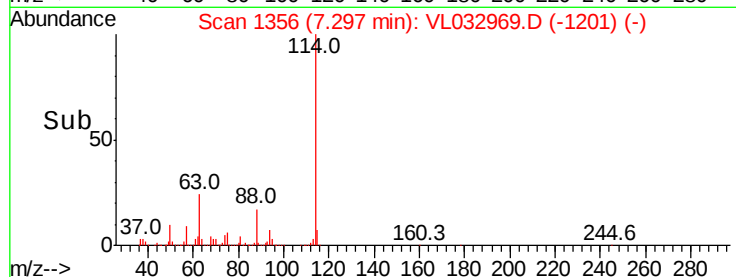
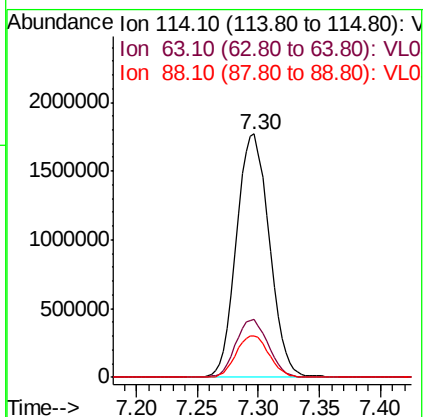
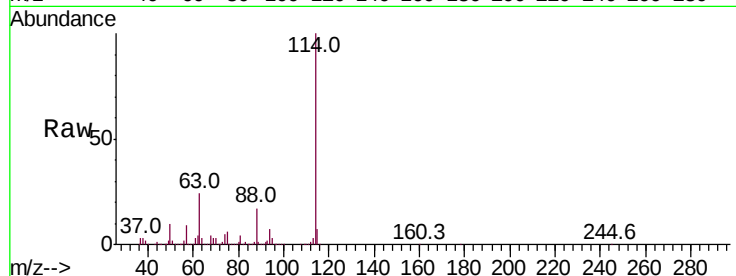




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VL032969.D
 Acq: 12 Dec 2018 00:35

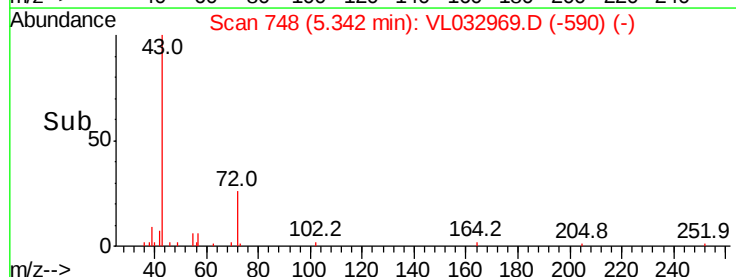
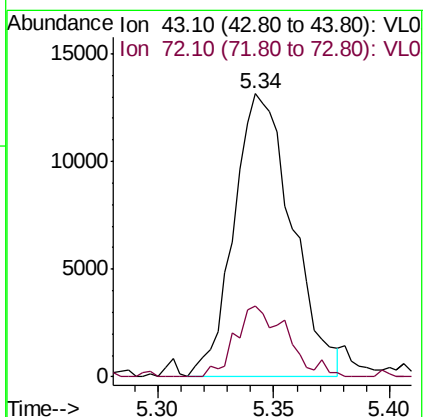
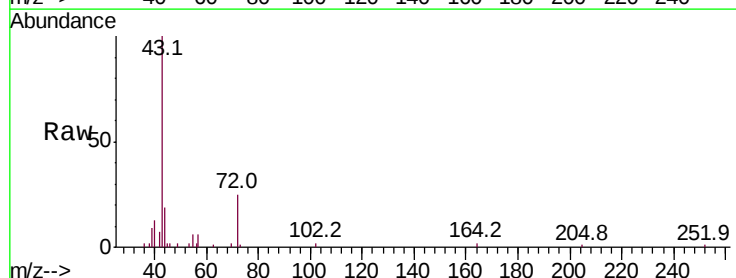
Instrument :
 MSVOA_L
 ClientSampleId :

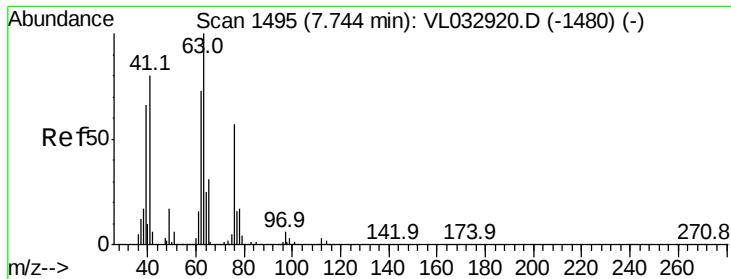
Tot Ion:114 Resp: 3297114
 Ion Ratio Lower Upper
 114 100
 63 23.7 20.1 30.1
 88 17.3 14.2 21.4



#34
 2-Butanone
 Concen: 0.160 ppbv
 RT: 5.34 min Scan# 748
 Delta R.T. 0.01 min
 Lab File: VL032969.D
 Acq: 12 Dec 2018 00:35

Tgt Ion: 43 Resp: 22982
 Ion Ratio Lower Upper
 43 100
 72 22.1 18.8 28.2





#39

1,2-Dichloropropane

Concen: 8.459 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

Instrument :

MSVOA_L

ClientSampleId :

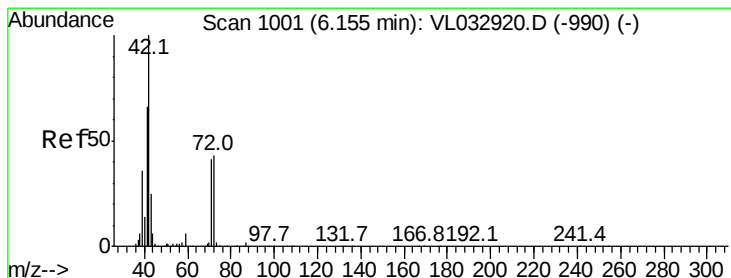
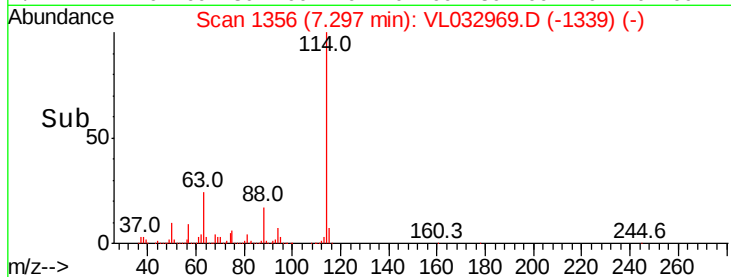
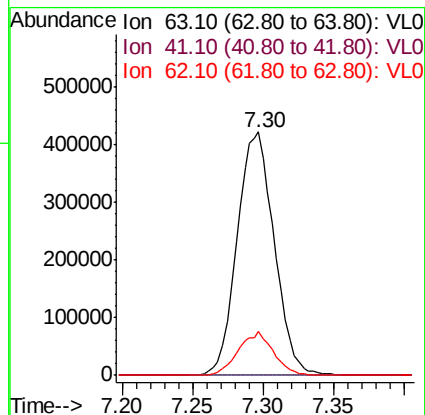
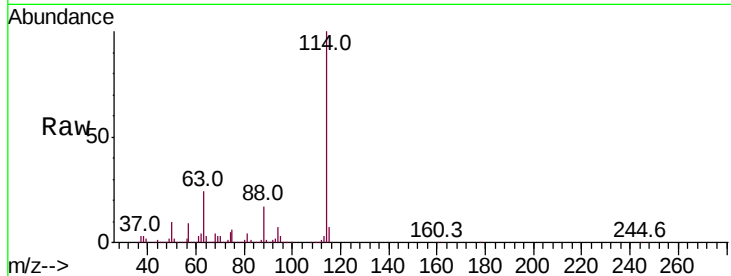
Tot Ion: 63 Resp: 777991

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

62 18.0 58.8 88.2#



#41

Tetrahydrofuran

Concen: 0.035 ppbv

RT: 6.17 min Scan# 1006

Delta R.T. 0.02 min

Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

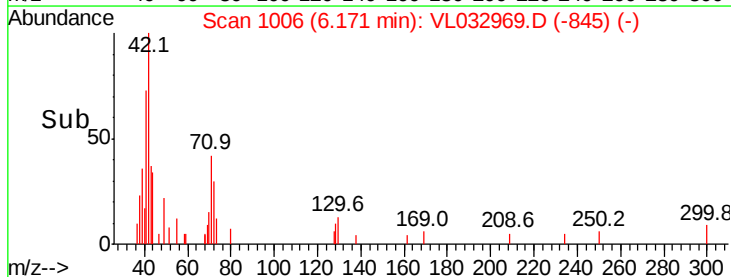
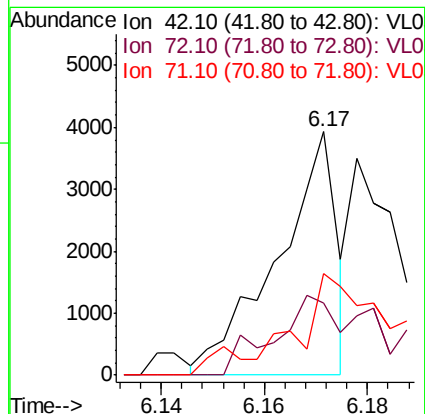
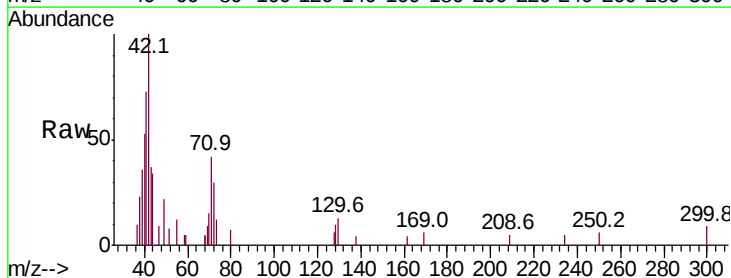
Tgt Ion: 42 Resp: 3121

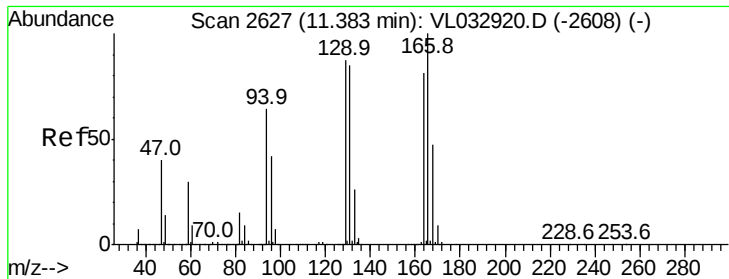
Ion Ratio Lower Upper

42 100

72 65.0 32.9 49.3#

71 74.1 32.0 48.0#





#52

Tetrachloroethene

Concen: 0.655 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL032969.D

Acq: 12 Dec 2018 00:35

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 57788

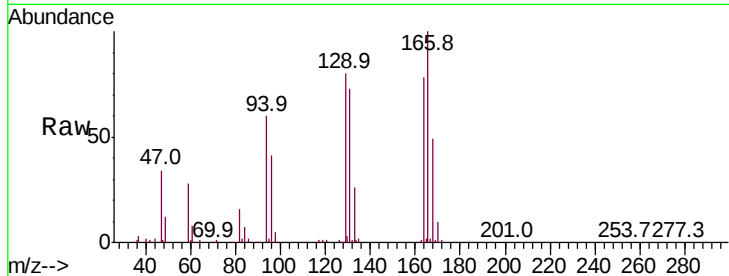
Ion Ratio Lower Upper

164 100

166 129.1 98.8 148.2

129 101.8 85.5 128.3

131 94.0 84.4 126.6

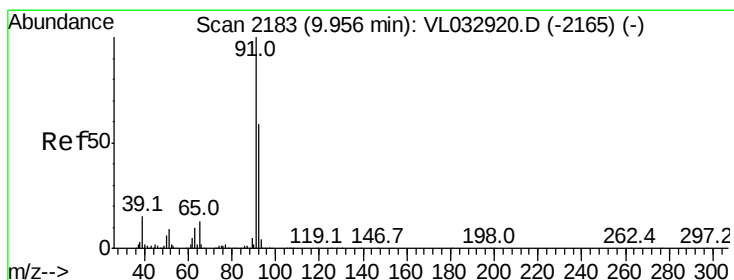
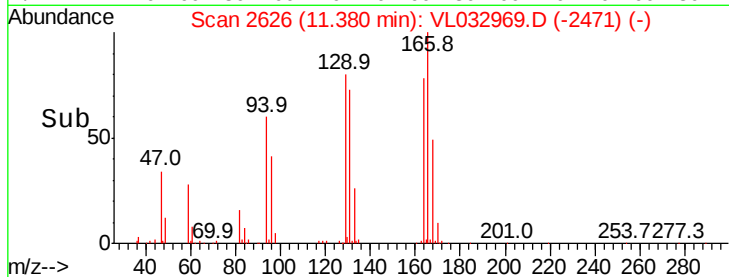
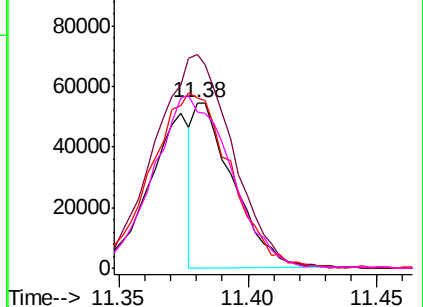


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.071 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL032969.D

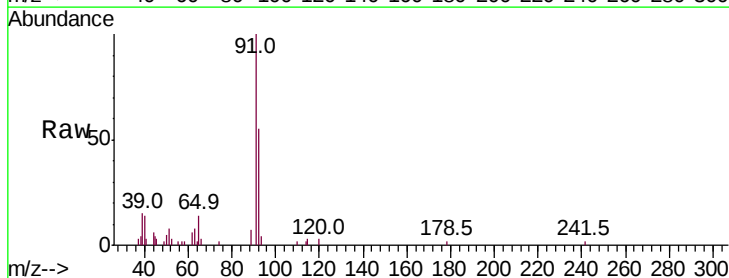
Acq: 12 Dec 2018 00:35

Tgt Ion: 91 Resp: 18195

Ion Ratio Lower Upper

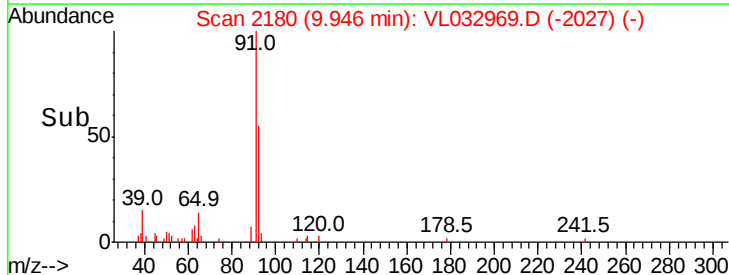
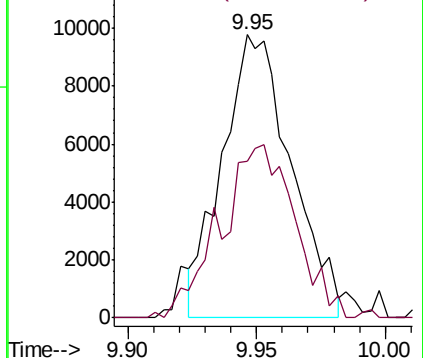
91 100

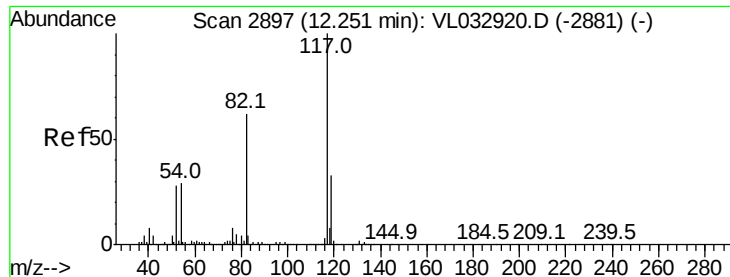
92 66.7 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

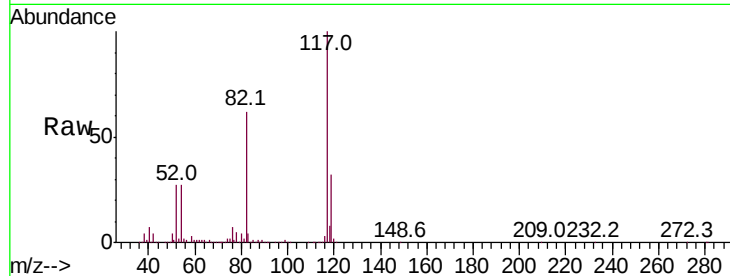




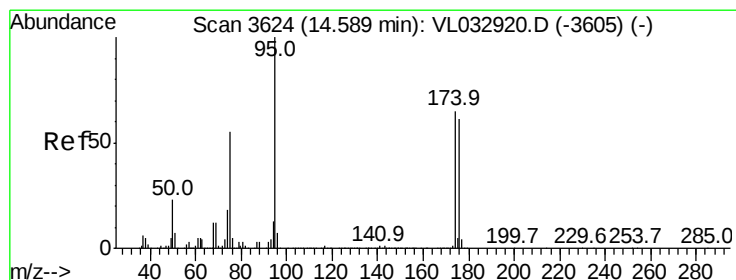
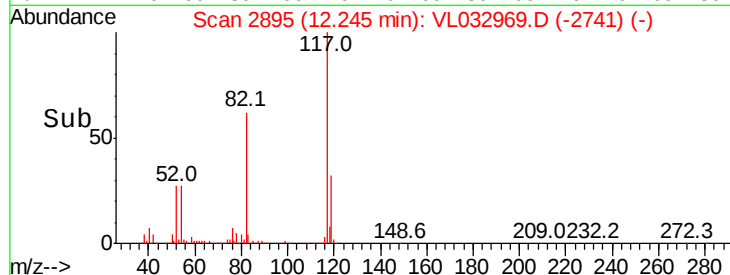
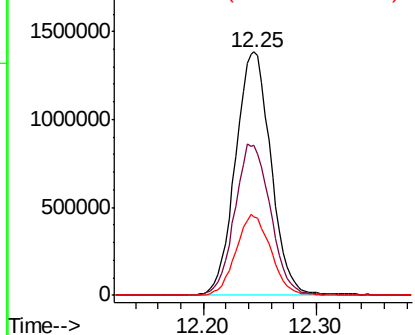
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032969.D
Acq: 12 Dec 2018 00:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3019647
Ion Ratio Lower Upper
117 100
82 63.2 47.8 71.8
119 32.8 43.1 64.7#

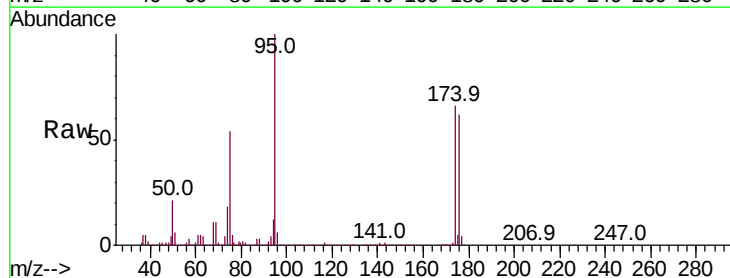


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.678 ppbv
RT: 14.58 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL032969.D
Acq: 12 Dec 2018 00:35

Tgt Ion: 95 Resp: 2159125
Ion Ratio Lower Upper
95 100
174 66.3 51.4 77.0
175 4.8 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

