

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032973.D
 Acq On : 12 Dec 2018 3:10
 Operator : SY/AP
 Sample : J6338-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 04:23:29 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	1318167	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3158538	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3144140	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2457154	10.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.80%

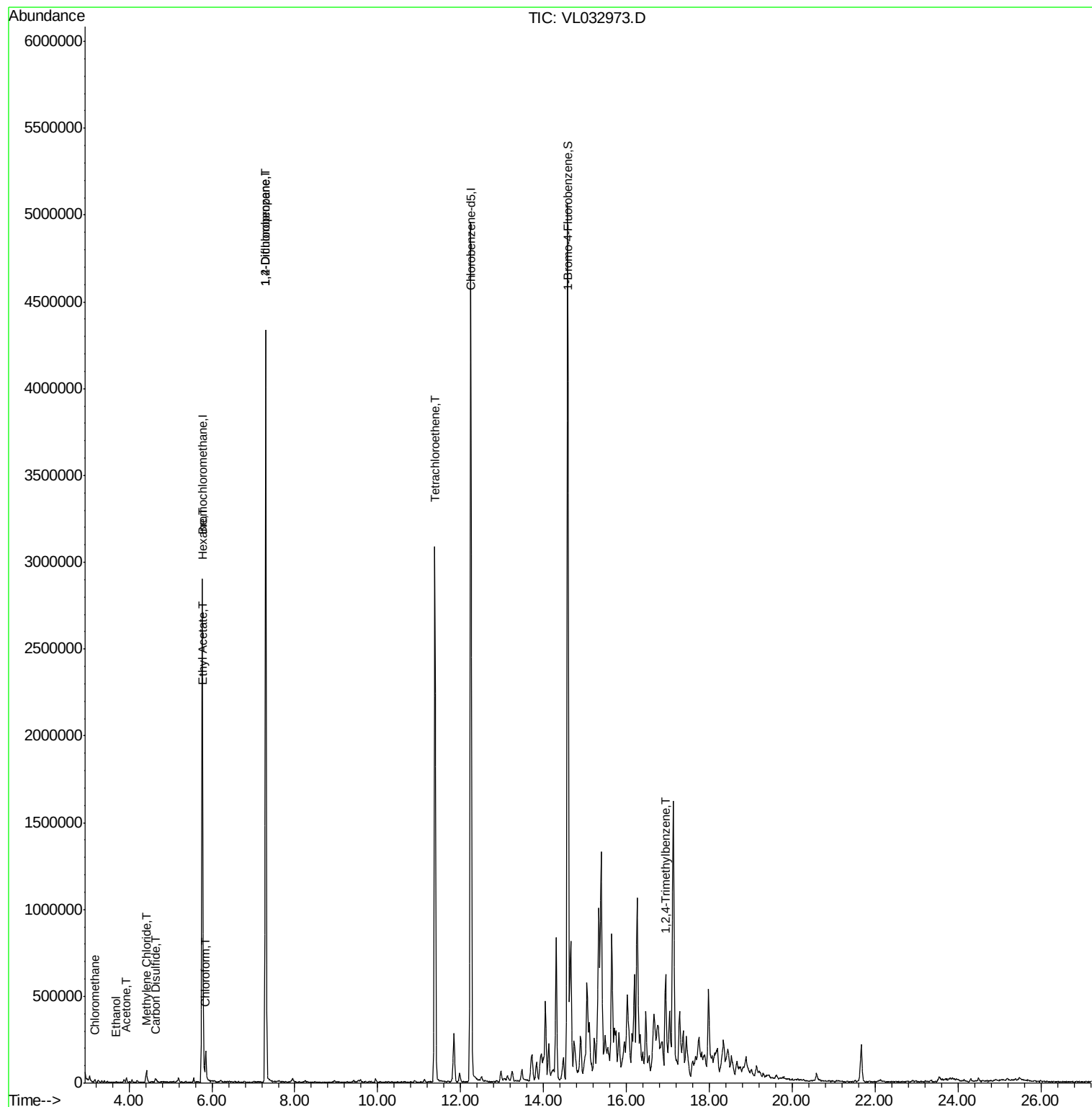
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.18	50	7912	0.136	ppbv #	79
13) Ethanol	3.68	45	1232	0.091	ppbv #	1
15) Acetone	3.93	43	27699	0.245	ppbv	93
20) Methylene Chloride	4.41	84	20235	0.366	ppbv #	84
25) Ethyl Acetate	5.79	43	13872	0.052	ppbv #	79
26) Hexane	5.78	57	8170	0.066	ppbv #	1
27) Carbon Disulfide	4.63	76	14473	0.094	ppbv #	51
29) Chloroform	5.85	83	108215	0.491	ppbv	98
39) 1,2-Dichloropropane	7.30	63	764119	8.673	ppbv #	21
52) Tetrachloroethene	11.38	164	730001	8.638	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	25511	0.068	ppbv #	68

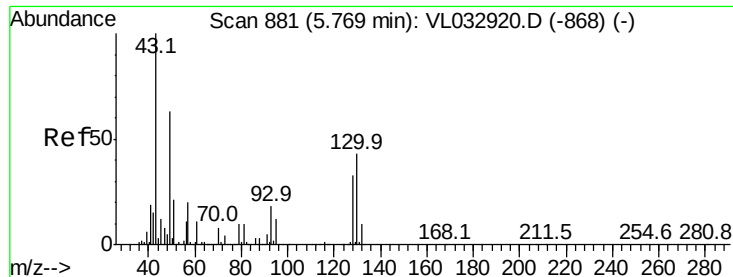
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 04:23:29 2018
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032973.D

Acq: 12 Dec 2018 3:10

Instrument :

MSVOA_L

ClientSampleId :

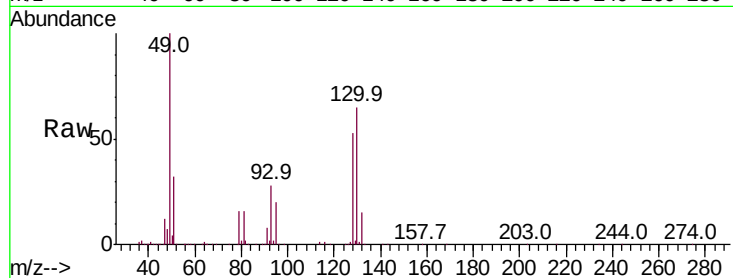
Tot Ion: 49 Resp: 1318167

Ion Ratio Lower Upper

49 100

128 52.2 26.3 78.8

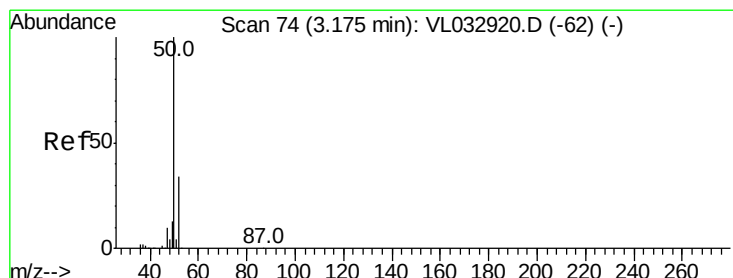
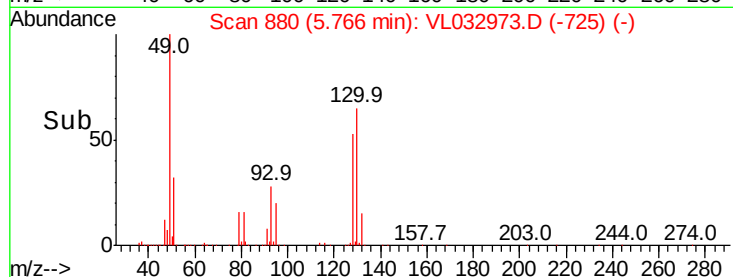
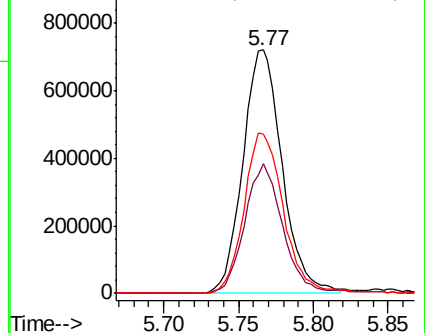
130 67.2 33.9 101.7



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



#4

Chloromethane

Concen: 0.136 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032973.D

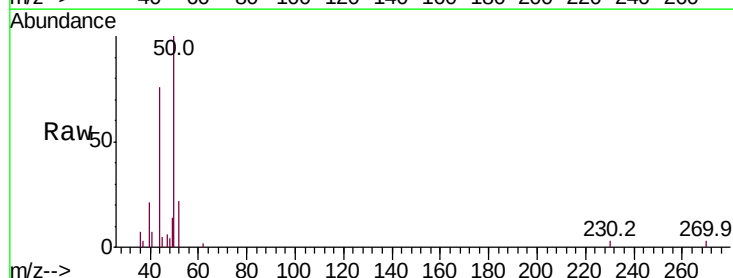
Acq: 12 Dec 2018 3:10

Tgt Ion: 50 Resp: 7912

Ion Ratio Lower Upper

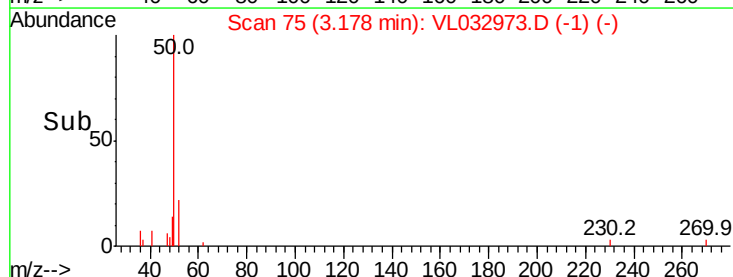
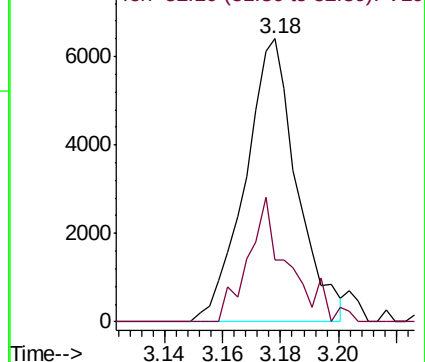
50 100

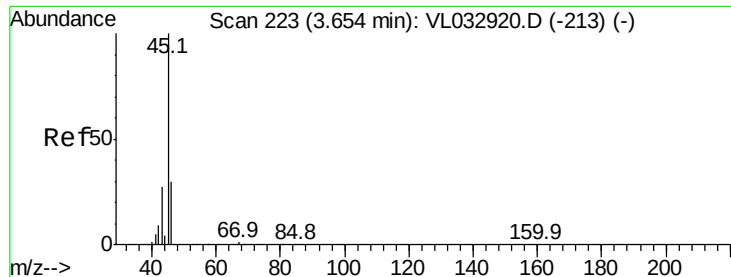
52 22.0 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

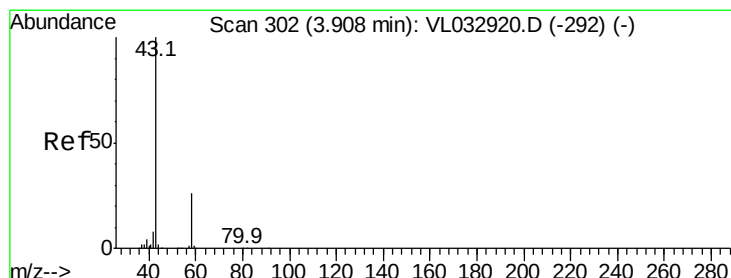
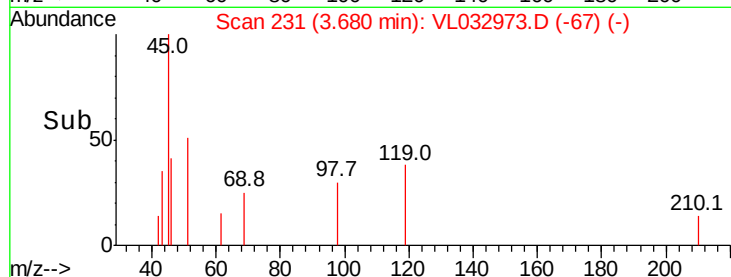
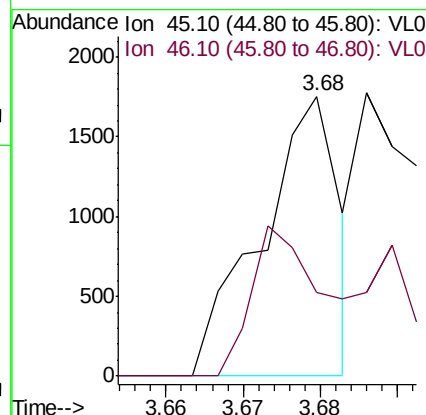
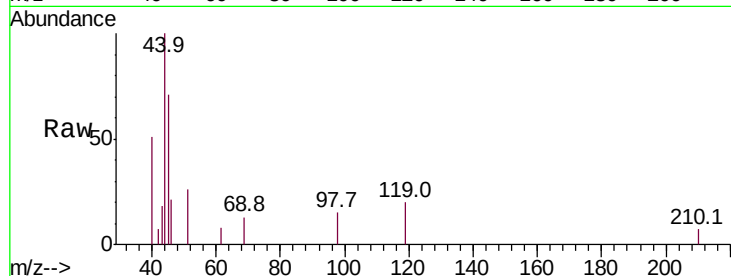




#13
Ethanol
Concen: 0.091 ppbv
RT: 3.68 min Scan# 231
Delta R.T. 0.03 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

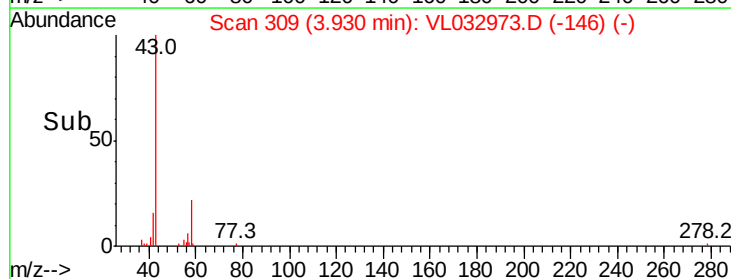
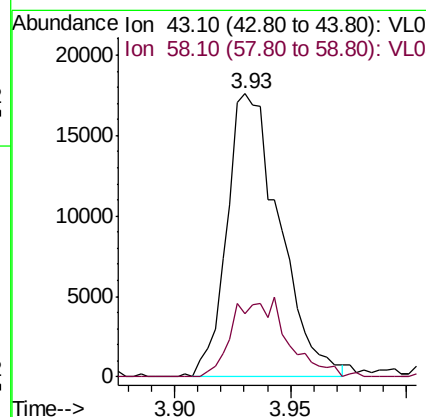
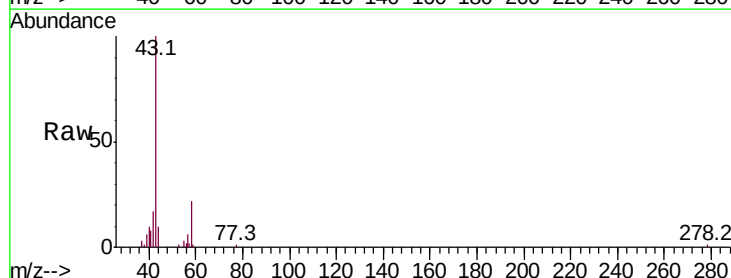
Instrument :
MSVOA_L
ClientSampleId :

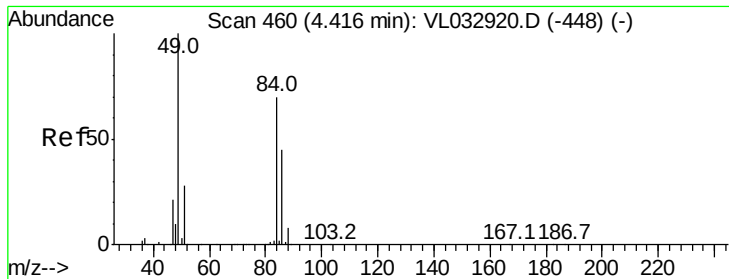
Tot Ion: 45 Resp: 1232
Ion Ratio Lower Upper
45 100
46 92.1 13.8 55.4#



#15
Acetone
Concen: 0.245 ppbv
RT: 3.93 min Scan# 309
Delta R.T. 0.02 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

Tgt Ion: 43 Resp: 27699
Ion Ratio Lower Upper
43 100
58 29.1 20.6 30.8

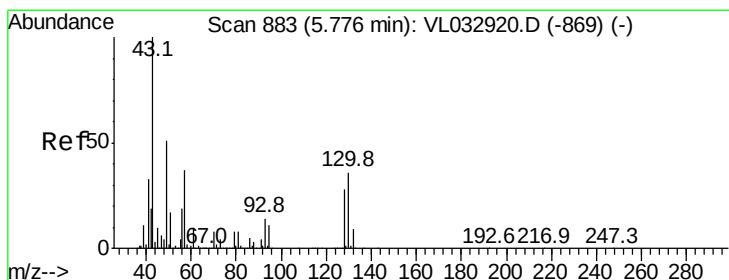
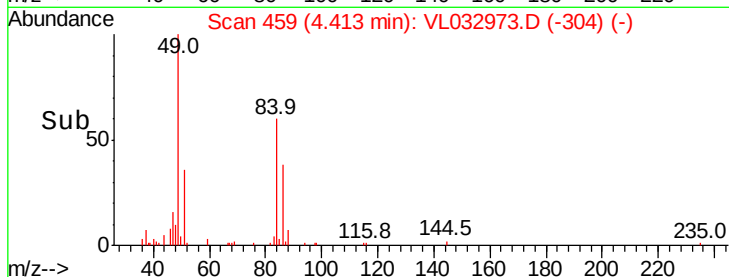
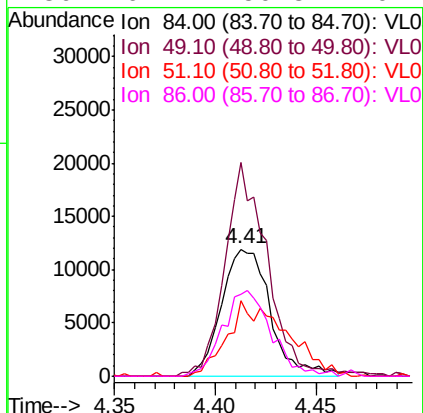
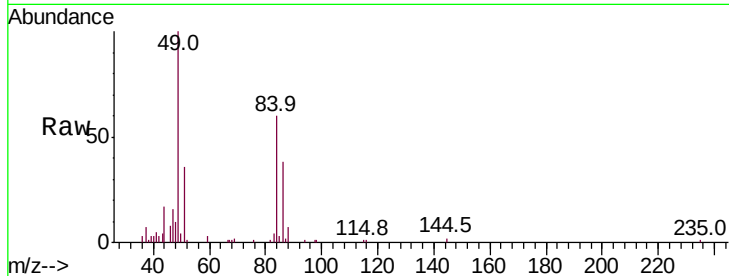




#20
Methylene Chloride
Concen: 0.366 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

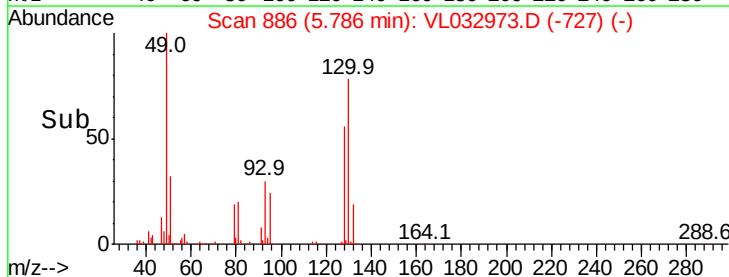
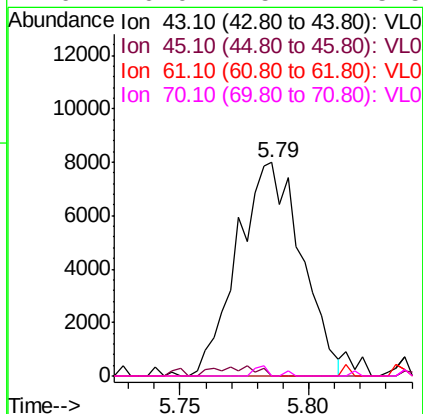
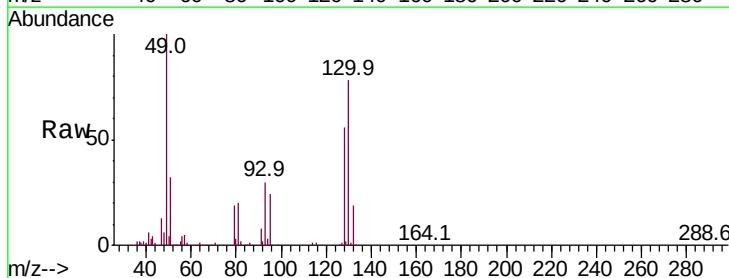
Instrument :
MSVOA_L
ClientSampleId :

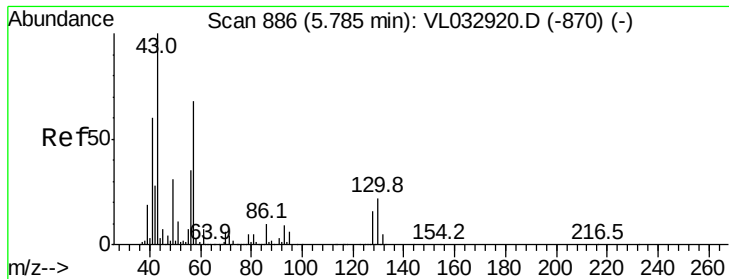
Tot Ion:	84	Resp:	20235
Ion	Ratio	Lower	Upper
84	100		
49	164.6	113.8	170.8
51	59.6	31.8	47.8#
86	62.4	50.8	76.2



#25
Ethyl Acetate
Concen: 0.052 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

Tgt Ion:	43	Resp:	13872
Ion	Ratio	Lower	Upper
43	100		
45	3.5	7.8	11.6#
61	0.0	7.4	11.2#
70	0.0	5.7	8.5#

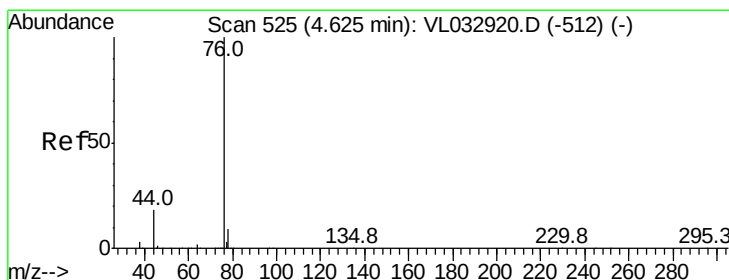
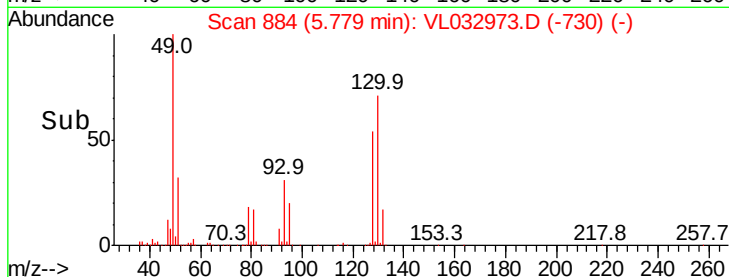
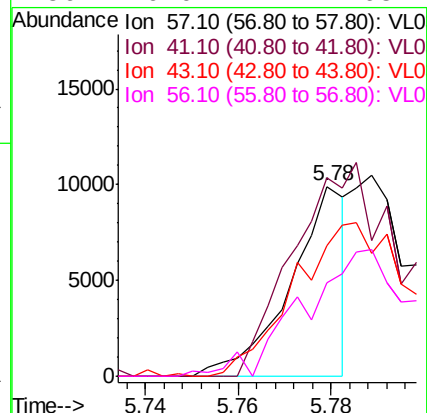
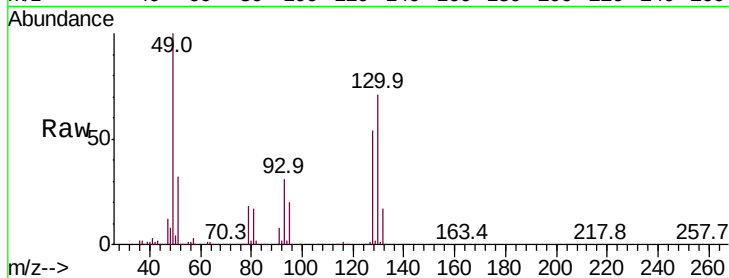




#26
Hexane
Concen: 0.066 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

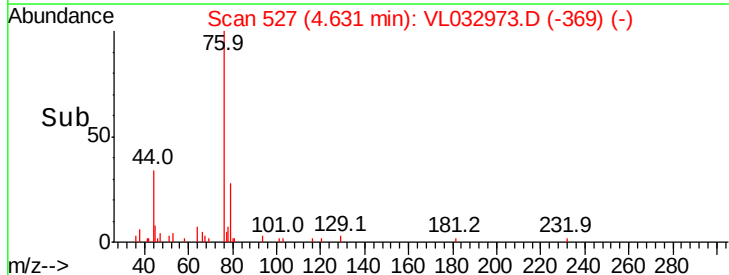
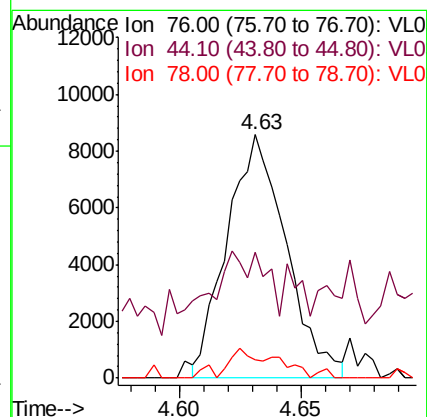
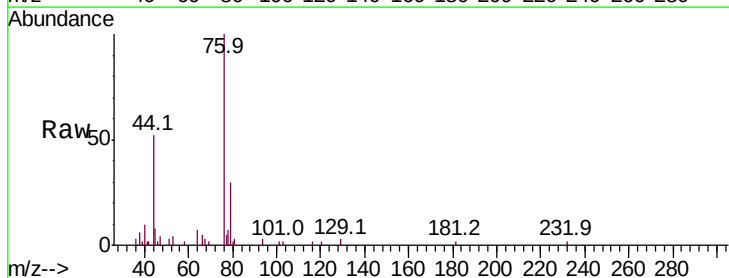
Instrument :
MSVOA_L
ClientSampleId :

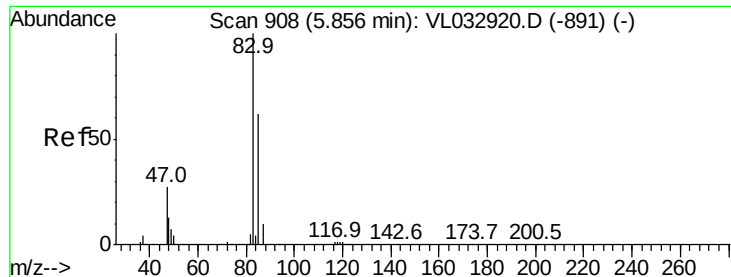
Tot Ion: 57 Resp: 8170
Ion Ratio Lower Upper
57 100
41 0.0 72.2 108.2#
43 0.0 171.9 257.9#
56 0.0 42.2 63.2#



#27
Carbon Disulfide
Concen: 0.094 ppbv
RT: 4.63 min Scan# 527
Delta R.T. 0.01 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

Tgt Ion: 76 Resp: 14473
Ion Ratio Lower Upper
76 100
44 50.5 14.7 22.1#
78 10.9 7.4 11.2

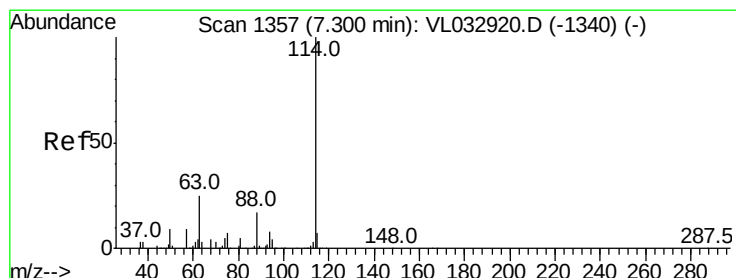
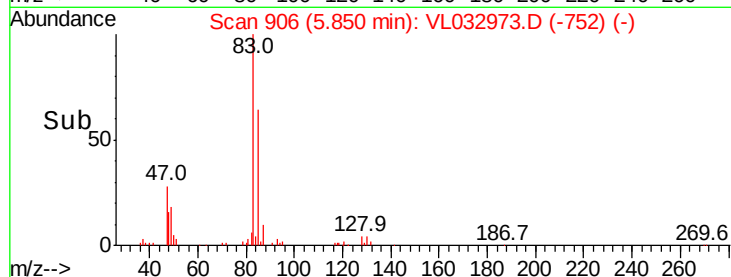
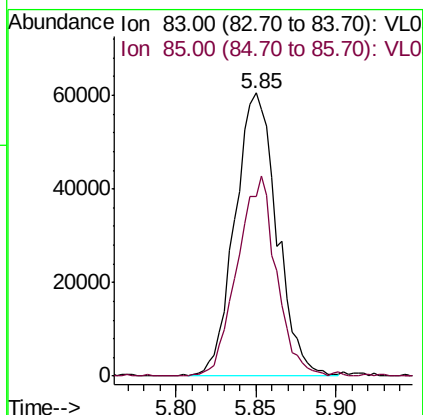
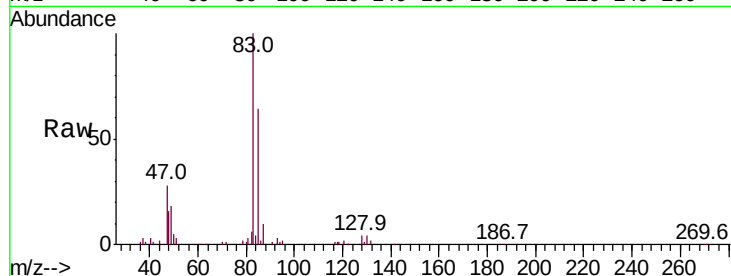




#29
Chloroform
Concen: 0.491 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.01 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

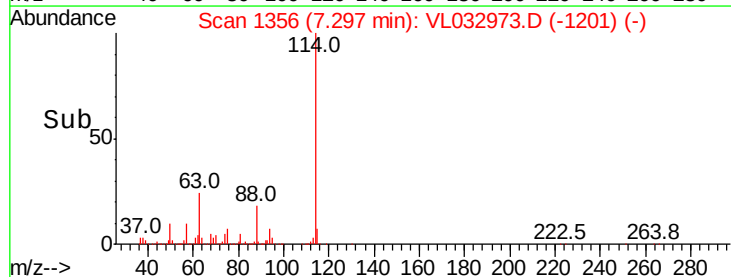
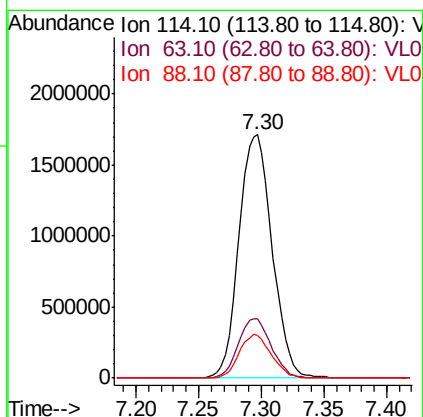
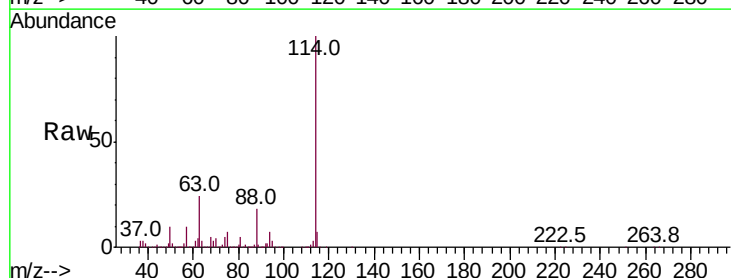
Instrument :
MSVOA_L
ClientSampleId :

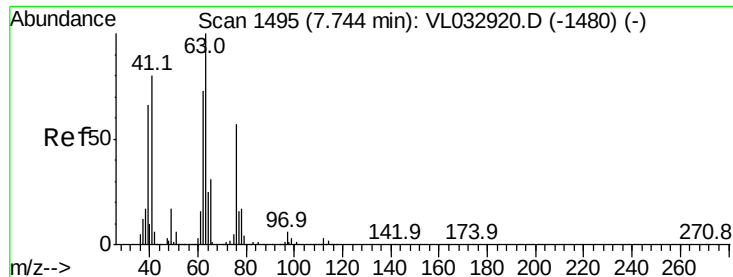
Tot Ion: 83 Resp: 108215
Ion Ratio Lower Upper
83 100
85 63.5 49.8 74.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

Tgt Ion: 114 Resp: 3158538
Ion Ratio Lower Upper
114 100
63 24.3 20.1 30.1
88 17.5 14.2 21.4





#39

1,2-Dichloropropane

Concen: 8.673 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032973.D

Acq: 12 Dec 2018 3:10

Instrument :

MSVOA_L

ClientSampleId :

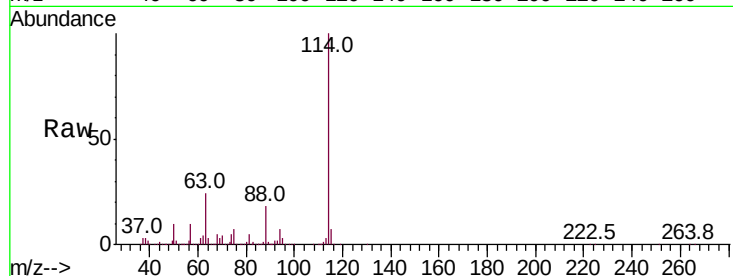
Tot Ion: 63 Resp: 764119

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

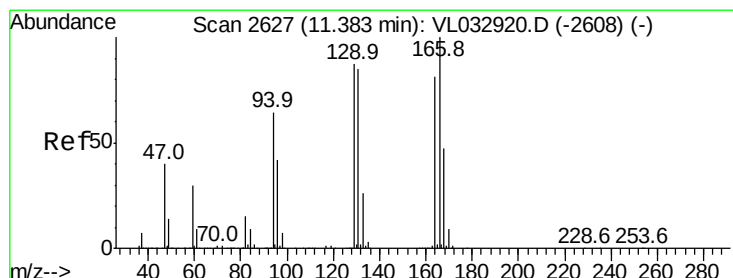
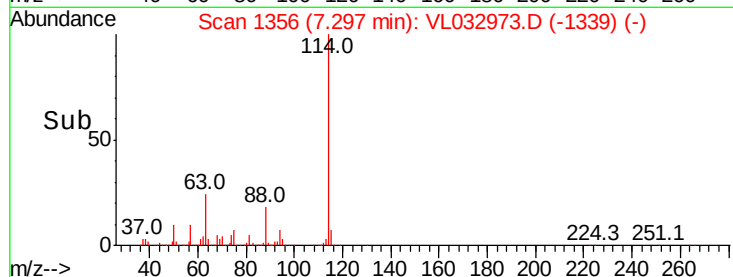
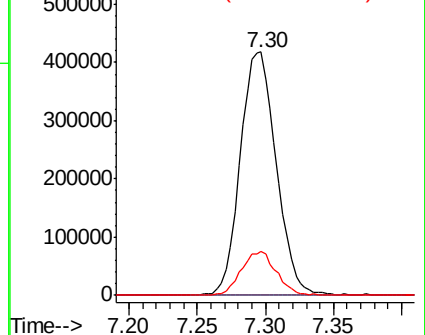
62 18.1 58.8 88.2#



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: 8.638 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL032973.D

Acq: 12 Dec 2018 3:10

Tgt Ion:164 Resp: 730001

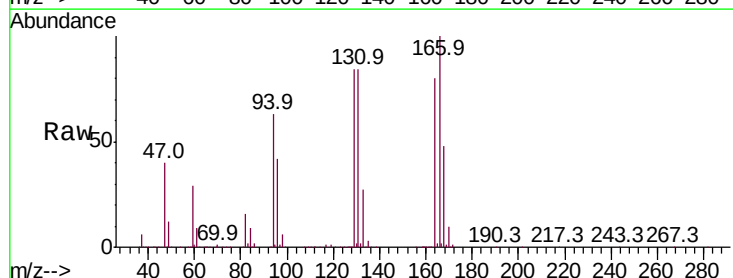
Ion Ratio Lower Upper

164 100

166 124.2 98.8 148.2

129 104.3 85.5 128.3

131 104.6 84.4 126.6

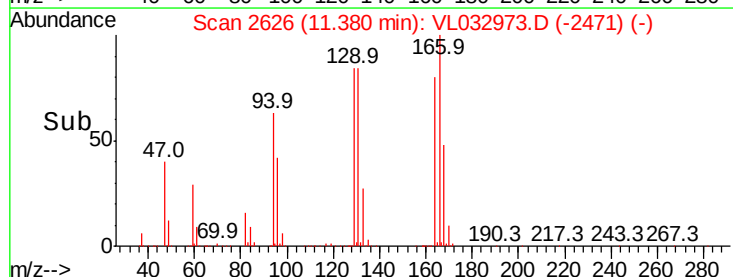
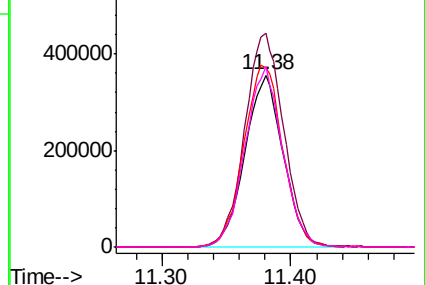


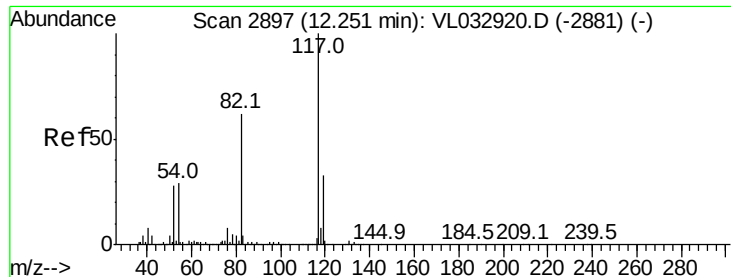
Abundance Ion 163.90 (163.60 to 164.60): V

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

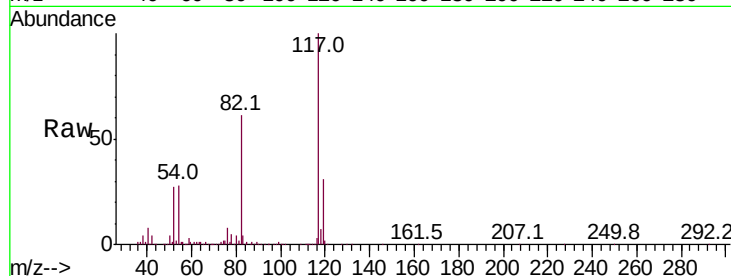




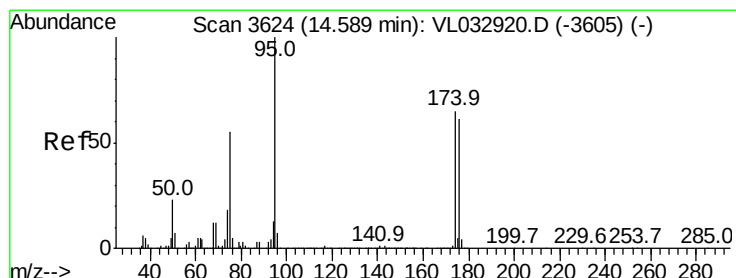
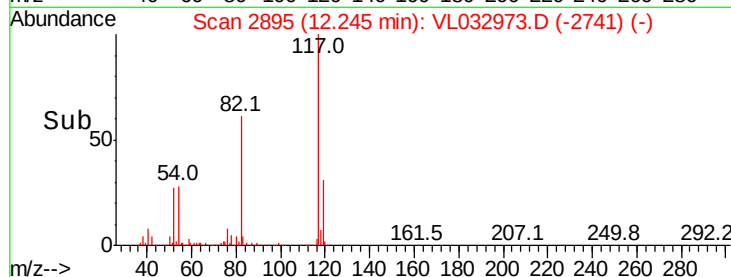
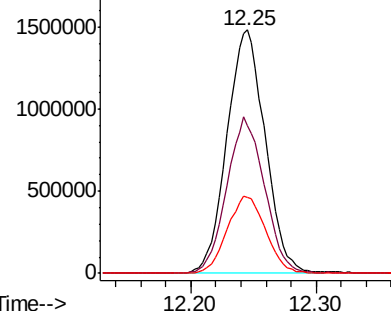
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3144140
Ion Ratio Lower Upper
117 100
82 63.9 47.8 71.8
119 32.3 43.1 64.7#

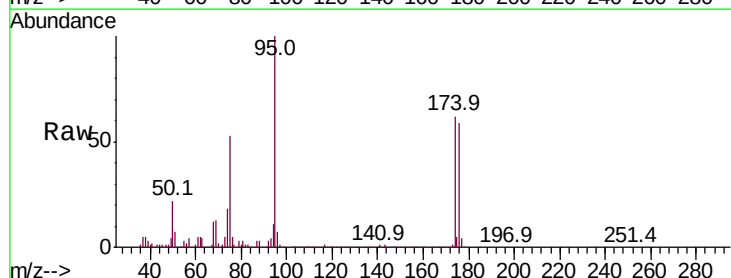


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

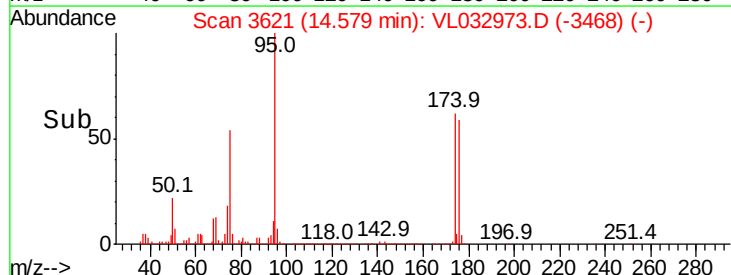
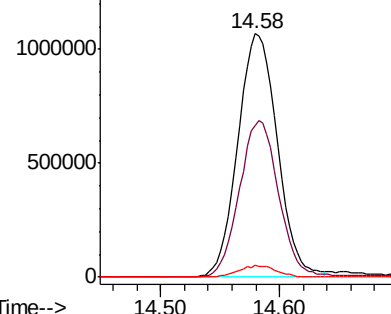


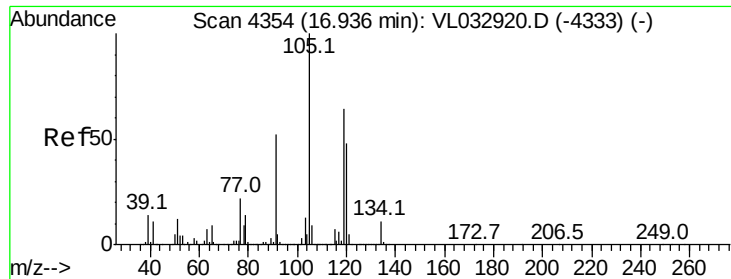
#68
1-Bromo-4-Fluorobenzene
Concen: 10.578 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.01 min
Lab File: VL032973.D
Acq: 12 Dec 2018 3:10

Tgt Ion: 95 Resp: 2457154
Ion Ratio Lower Upper
95 100
174 65.2 51.4 77.0
175 4.7 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





#74
 1,2,4-Trimethylbenzene
 Concen: 0.068 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL032973.D
 Acq: 12 Dec 2018 3:10

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	25511
Ion Ratio	Lower	Upper	
105	100		
120	31.1	38.6	58.0#
91	16.7	41.7	62.5#
77	23.0	17.4	26.2

