

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038195.D
 Acq On : 16 Dec 2021 18:49
 Operator : SY/AP
 Sample : M5136-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 05:09:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1011912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2741186	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2364556	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1783263	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds					Ovalue
3) Chlorodifluoromethane	3.00	51	6799	0.032	ppbv 98
7) Chloroethane	3.56	64	2655	0.105	ppbv # 71
9) Propene	3.03	41	8643	0.110	ppbv 87
12) 1,1,2-Trichlorotrifluoroet	4.49	101	10675	0.095	ppbv 96
13) Ethanol	3.62	45	41226	5.451	ppbv 82
15) Acetone	3.88	43	42871	0.489	ppbv 96
18) 1,1-Dichloroethene	4.30	96	6834	0.132	ppbv # 77
19) Isopropyl Alcohol	3.99	45	47012	0.742	ppbv # 90
20) Methylene Chloride	4.35	84	46673	0.950	ppbv 96
24) 1,1-Dichloroethane	5.02	63	142754	1.350	ppbv 98
25) Ethyl Acetate	5.69	43	10260	0.035	ppbv # 78
26) Hexane	5.70	57	18551	0.132	ppbv # 54
32) 1,1,1-Trichloroethane	6.52	97	1029862	4.899	ppbv 97
37) 1,2-Dichloroethane	6.51	62	72338	0.548	ppbv # 1
39) 1,2-Dichloropropane	7.18	63	714505	6.812	ppbv # 27

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 18:49

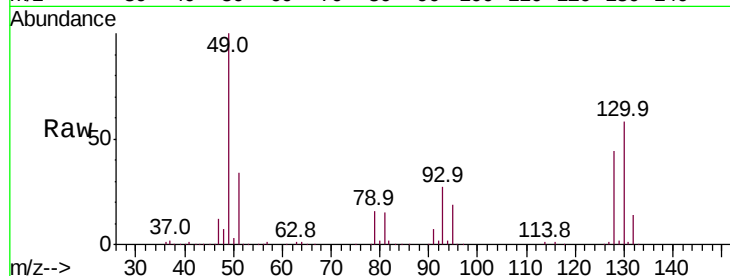
Tot Ion: 49 Resp: 1011912

Ion Ratio Lower Upper

49 100

128 48.3 26.5 79.5

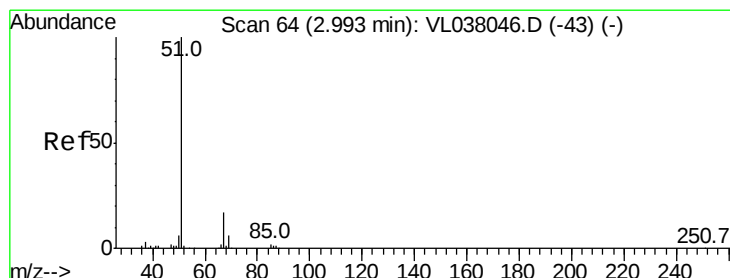
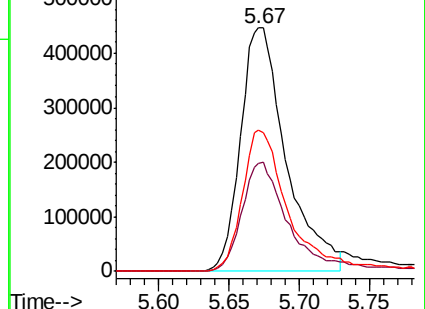
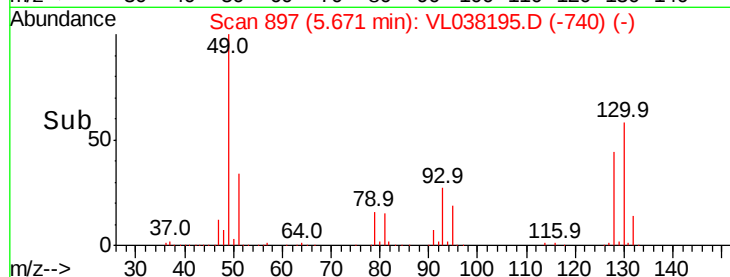
130 60.9 32.5 97.4



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



#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL038195.D

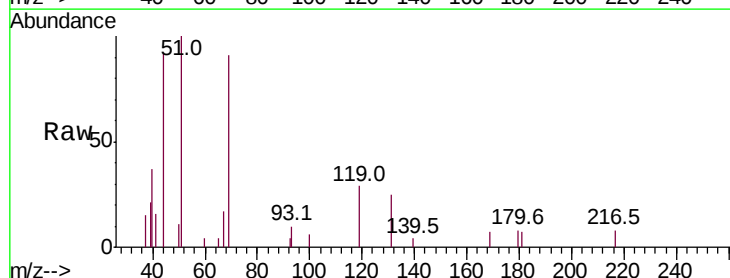
Acq: 16 Dec 2021 18:49

Tgt Ion: 51 Resp: 6799

Ion Ratio Lower Upper

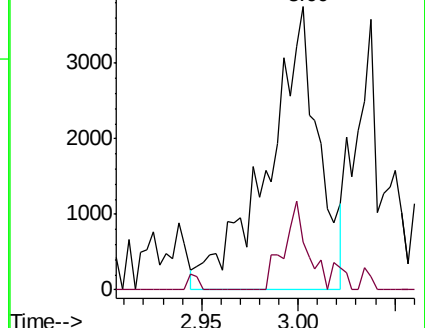
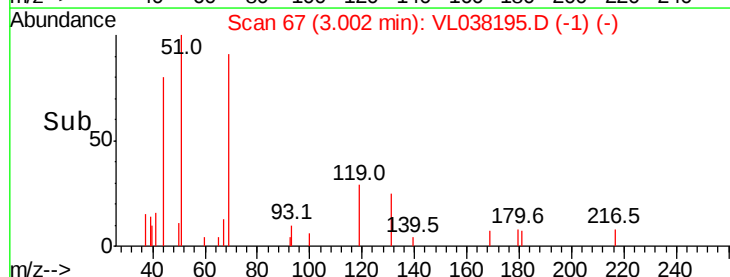
51 100

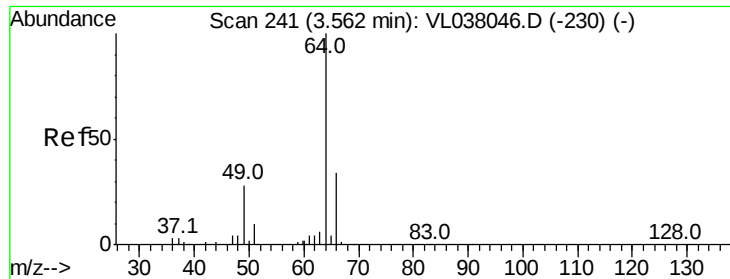
67 18.2 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#7

Chloroethane

Concen: 0.105 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

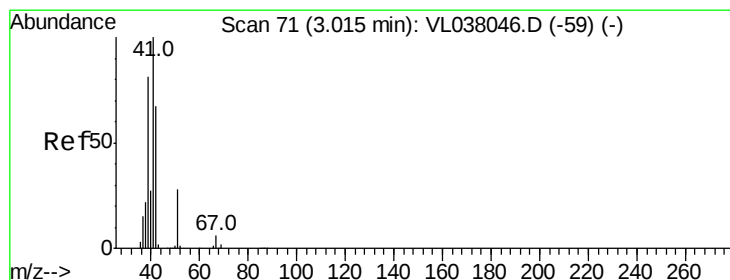
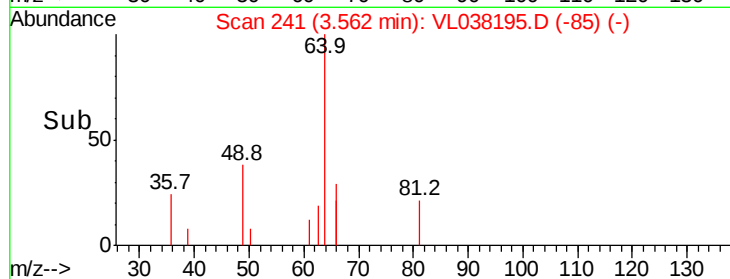
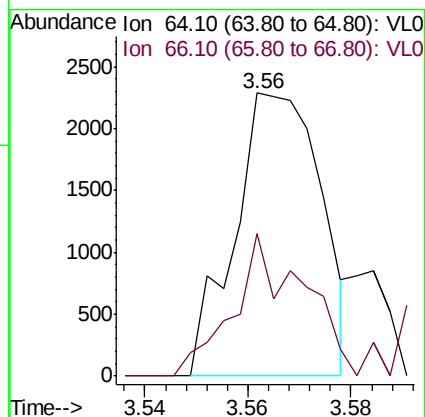
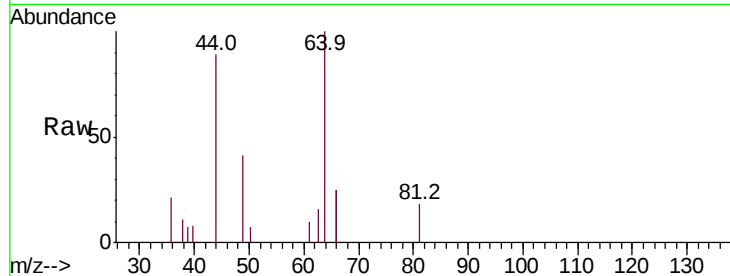
Acq: 16 Dec 2021 18:49

Tot Ion: 64 Resp: 2655

Ion Ratio Lower Upper

64 100

66 50.4 27.2 40.8#



#9

Propene

Concen: 0.110 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL038195.D

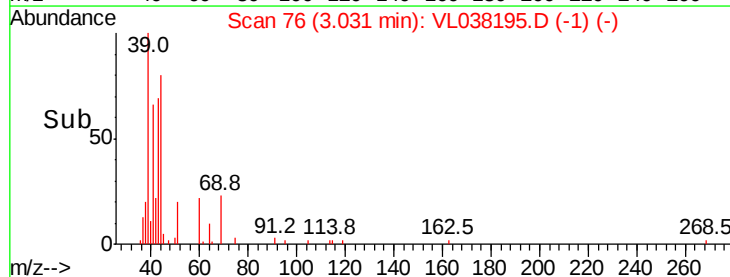
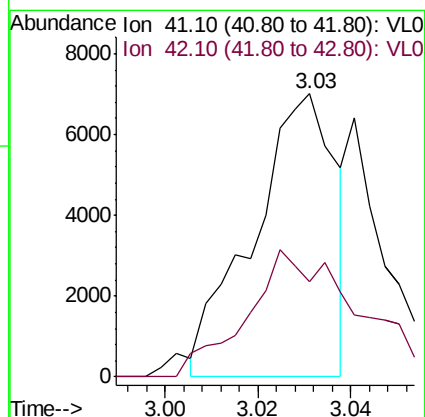
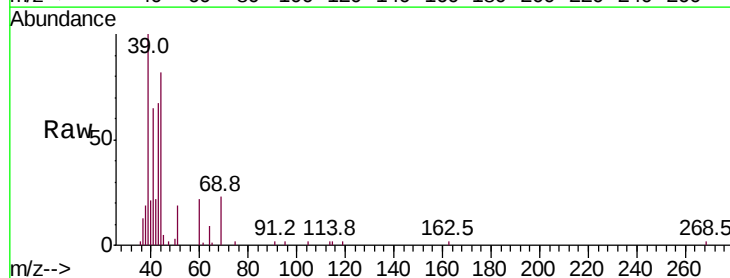
Acq: 16 Dec 2021 18:49

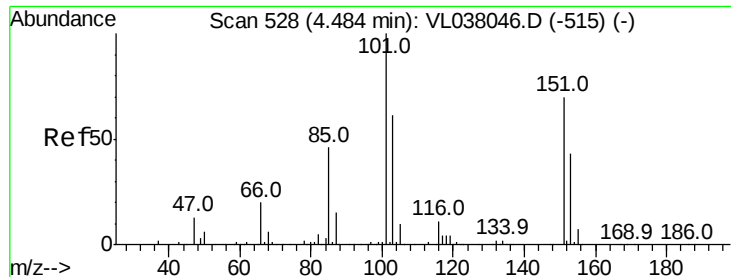
Tgt Ion: 41 Resp: 8643

Ion Ratio Lower Upper

41 100

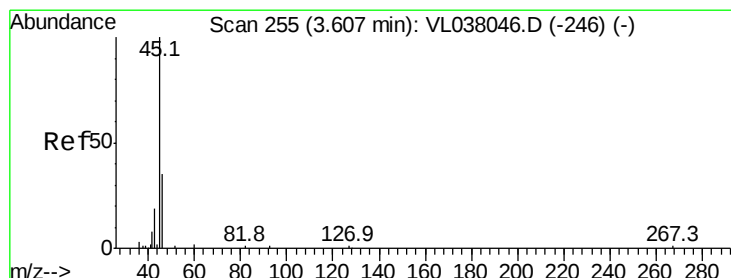
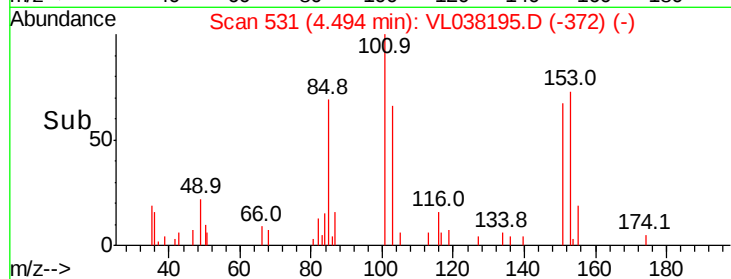
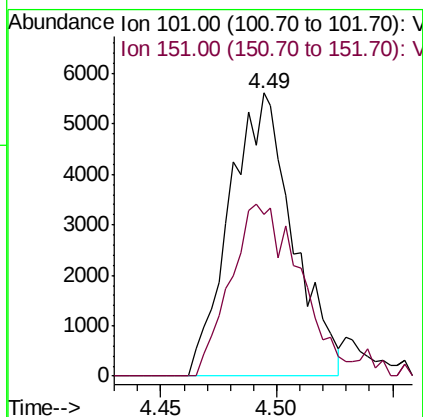
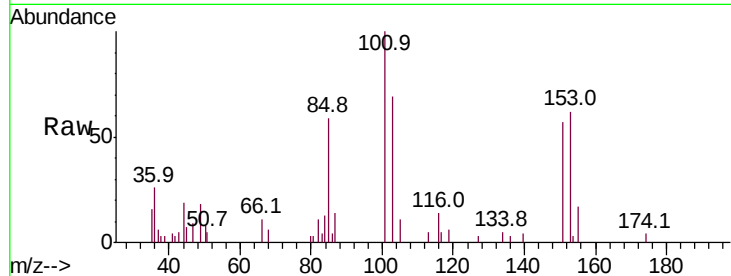
42 77.6 53.8 80.8





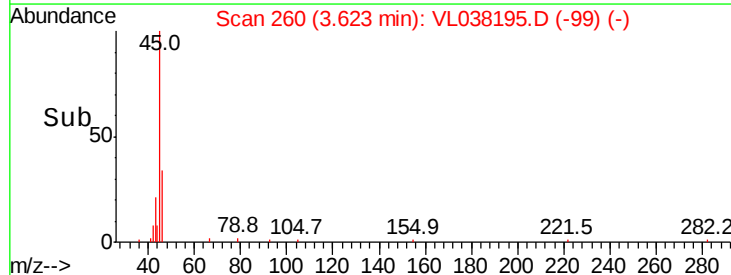
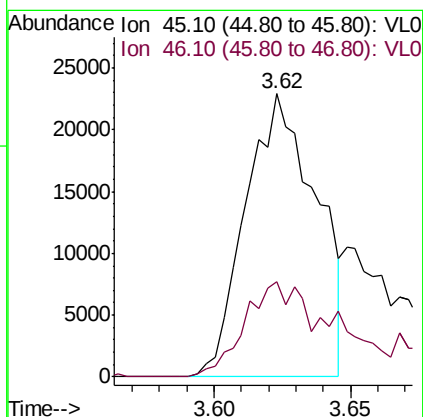
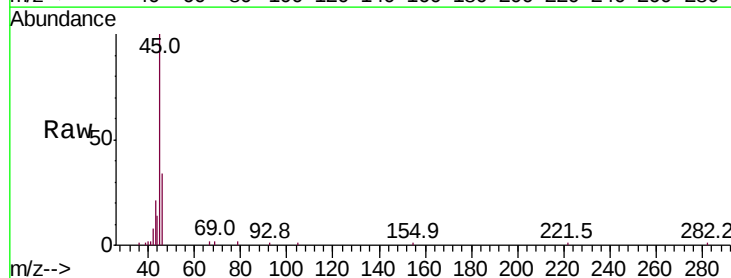
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.095 ppbv
 RT: 4.49
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 18:49

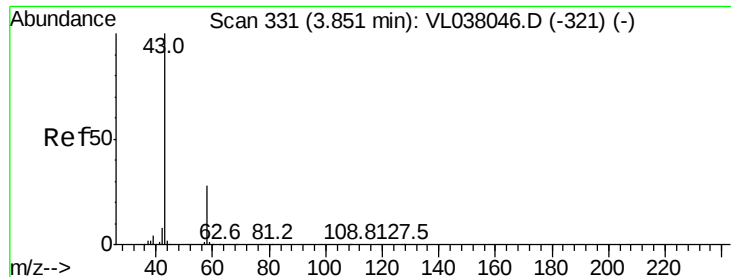
Tot Ion:101 Resp: 10675
 Ion Ratio Lower Upper
 101 100
 151 70.1 59.0 88.4



#13
 Ethanol
 Concen: 5.451 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.02 min
 Lab File: VL038195.D
 Acq: 16 Dec 2021 18:49

Tgt Ion: 45 Resp: 41226
 Ion Ratio Lower Upper
 45 100
 46 55.3 17.6 70.2





#15

Acetone

Concen: 0.489 ppbv

RT: 3.88 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

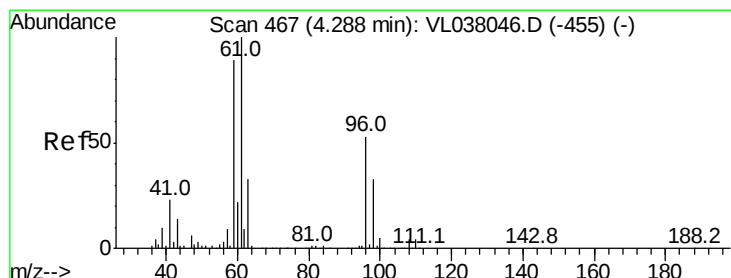
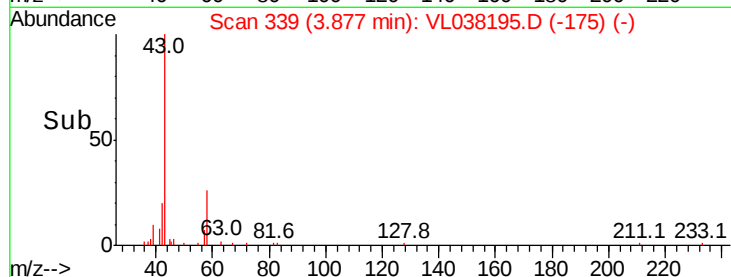
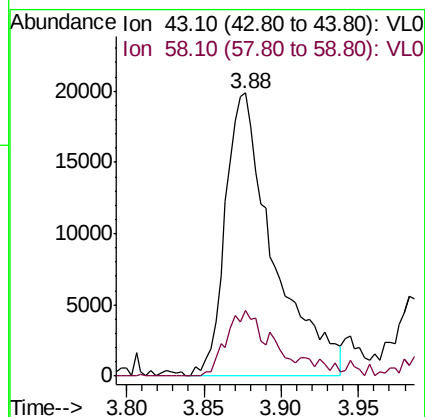
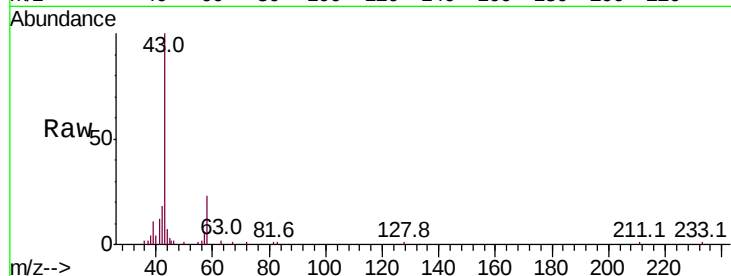
Acq: 16 Dec 2021 18:49

Tot Ion: 43 Resp: 42871

Ion Ratio Lower Upper

43 100

58 26.0 22.4 33.6



#18

1,1-Dichloroethene

Concen: 0.132 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL038195.D

Acq: 16 Dec 2021 18:49

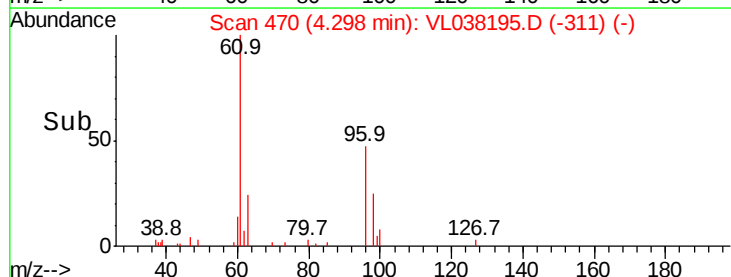
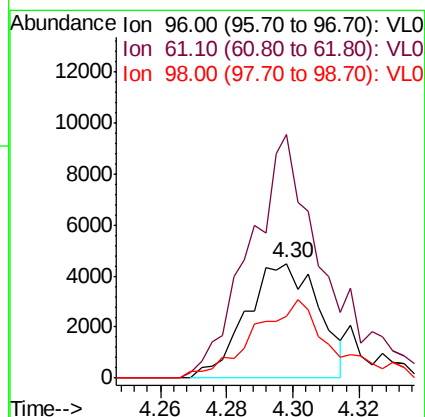
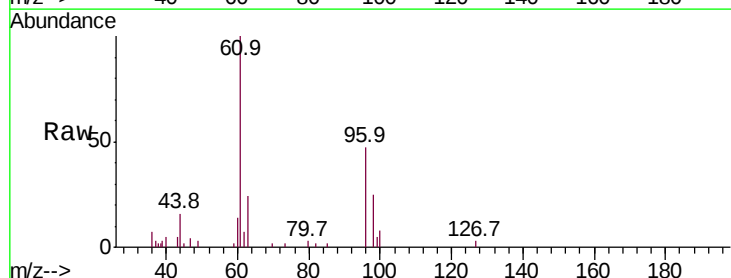
Tgt Ion: 96 Resp: 6834

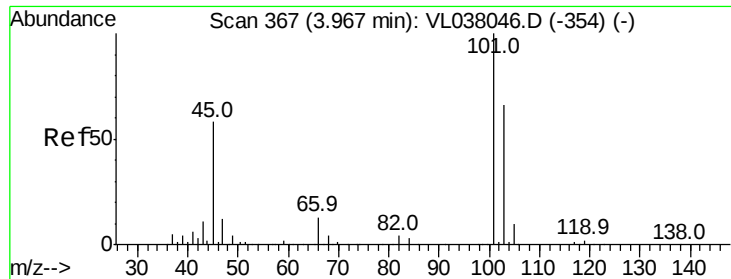
Ion Ratio Lower Upper

96 100

61 222.1 149.8 224.8

98 47.1 50.2 75.2#





#19

Isopropyl Alcohol

Concen: 0.742 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

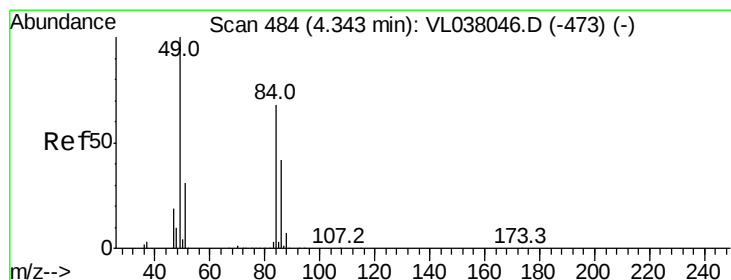
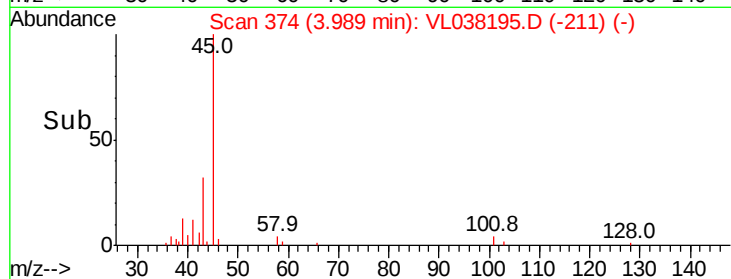
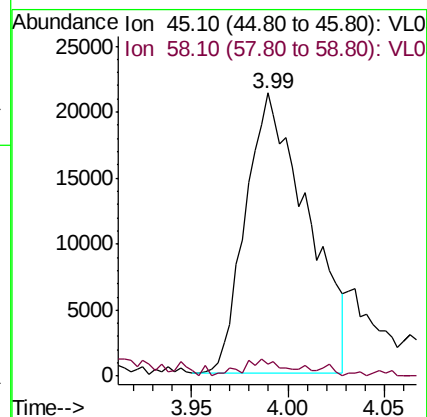
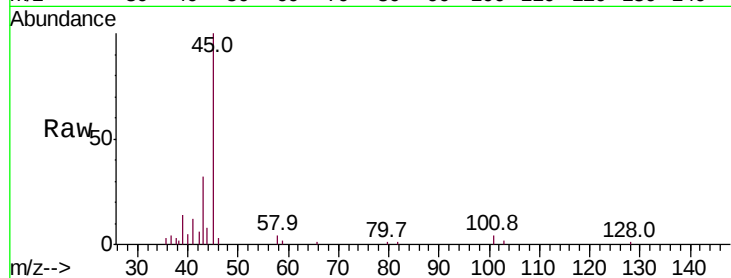
Acq: 16 Dec 2021 18:49

Tot Ion: 45 Resp: 47012

Ion Ratio Lower Upper

45 100

58 5.3 1.4 2.0#



#20

Methylene Chloride

Concen: 0.950 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038195.D

Acq: 16 Dec 2021 18:49

Tgt Ion: 84 Resp: 46673

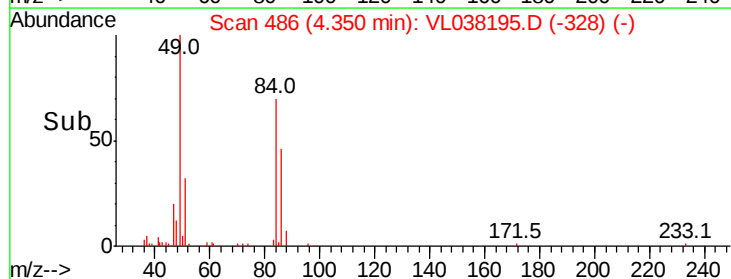
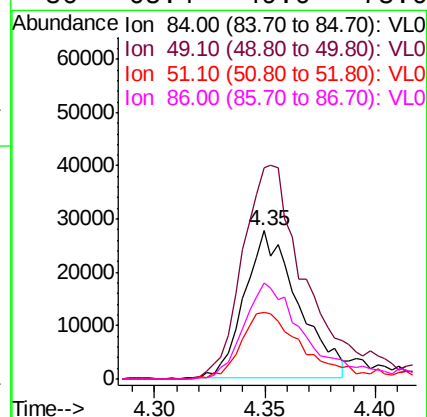
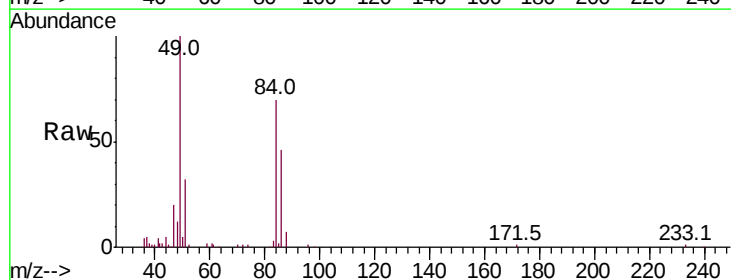
Ion Ratio Lower Upper

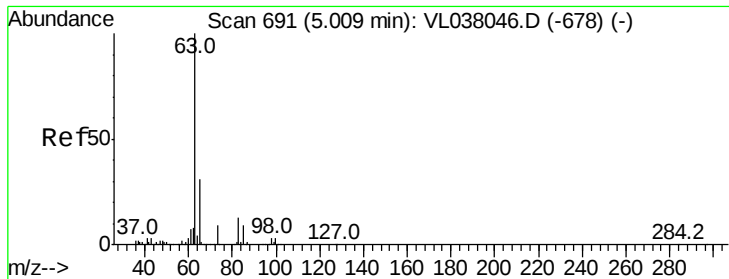
84 100

49 142.8 118.2 177.2

51 45.7 36.8 55.2

86 65.4 49.0 73.6





#24

1,1-Dichloroethane

Concen: 1.350 ppbv

RT: 5.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Dec 2021 18:49

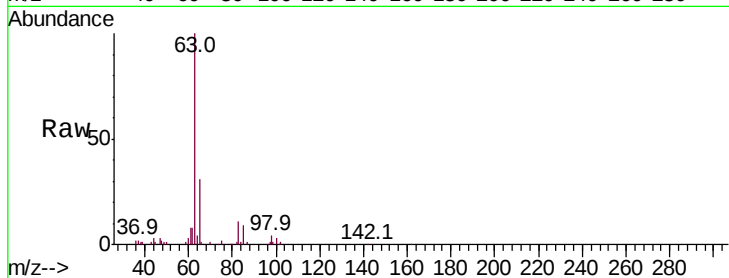
Tot Ion: 63 Resp: 142754

Ion Ratio Lower Upper

63 100

98 4.4 1.8 5.4

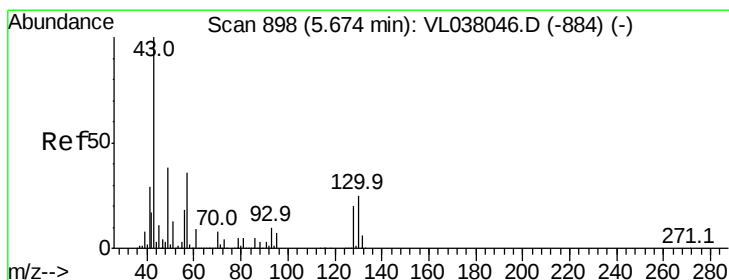
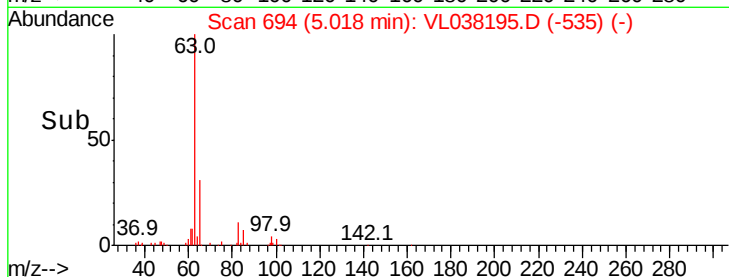
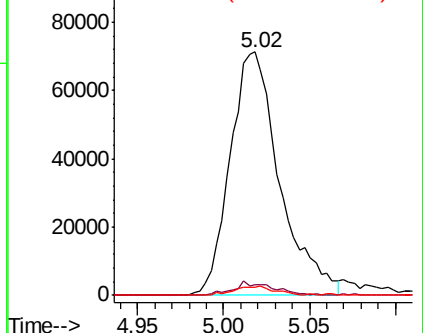
100 3.4 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.035 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL038195.D

Acq: 16 Dec 2021 18:49

Tgt Ion: 43 Resp: 10260

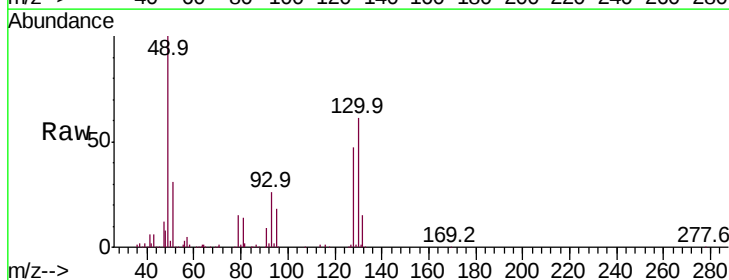
Ion Ratio Lower Upper

43 100

45 3.1 7.9 11.9#

61 0.0 7.8 11.6#

70 0.0 5.8 8.8#

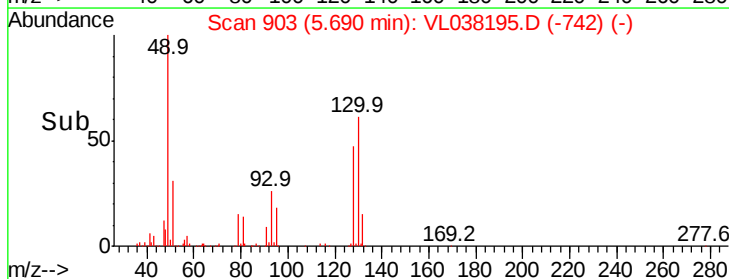
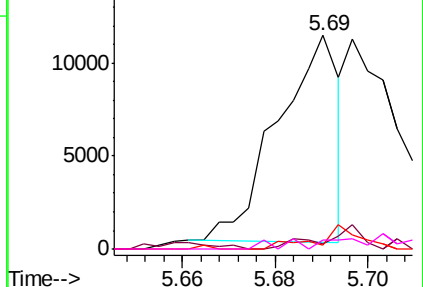


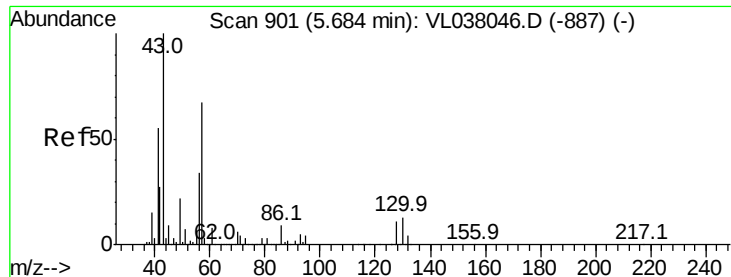
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.132 ppbv

RT: 5.70 Instrument:

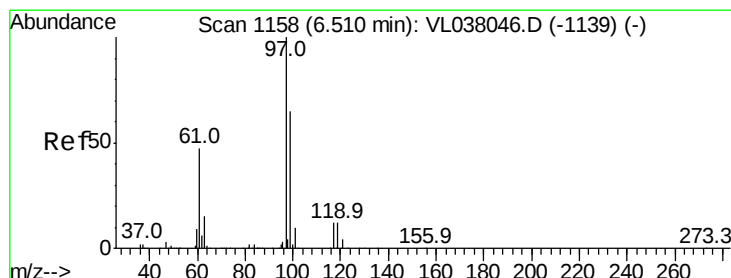
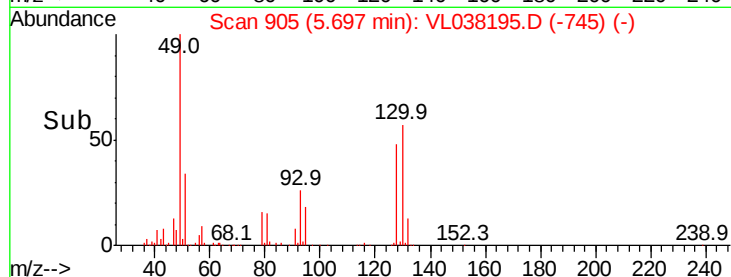
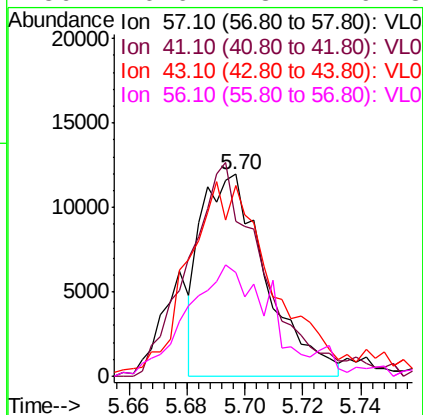
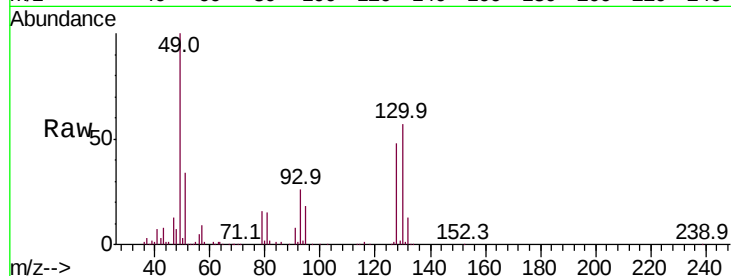
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 18:49

Tot Ion: 57 Resp: 18551

Ion	Ratio	Lower	Upper
57	100		
41	127.4	71.4	107.2#
43	135.5	174.6	261.8#
56	76.6	43.2	64.8#



#32

1,1,1-Trichloroethane

Concen: 4.899 ppbv

RT: 6.52 min Scan# 1160

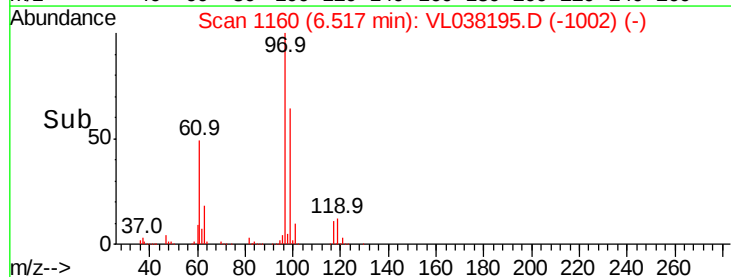
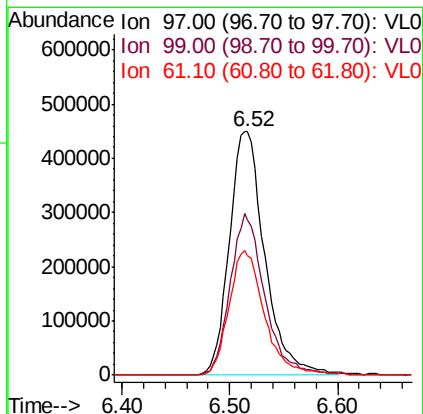
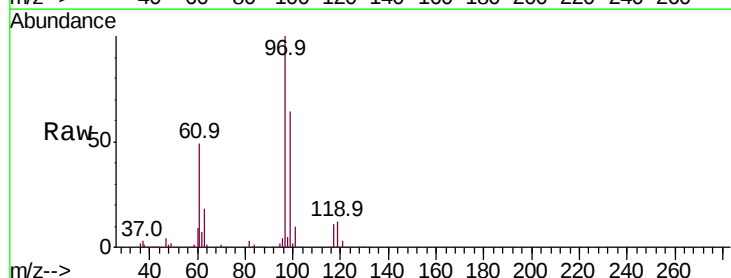
Delta R.T. 0.01 min

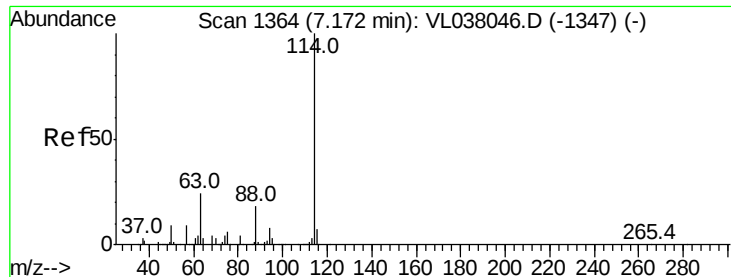
Lab File: VL038195.D

Acq: 16 Dec 2021 18:49

Tgt Ion: 97 Resp: 1029862

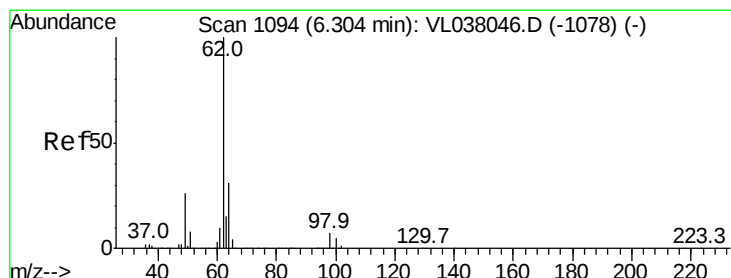
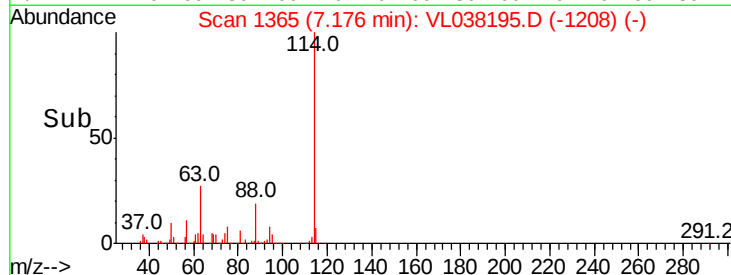
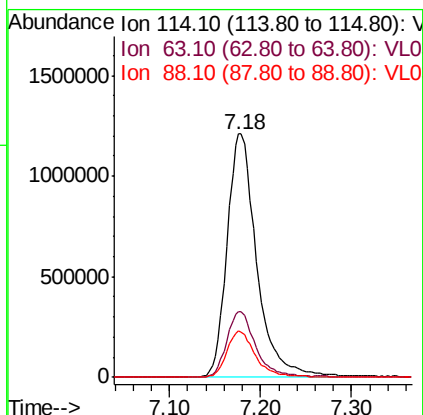
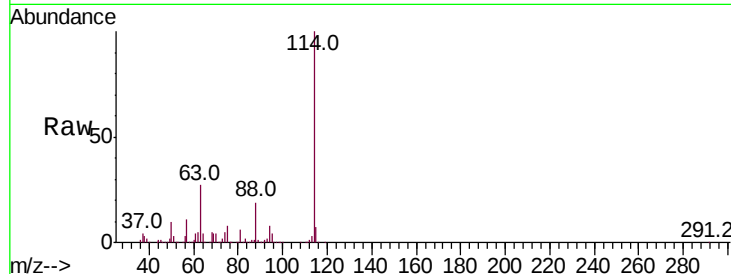
Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.2	78.4
61	51.3	37.7	56.5



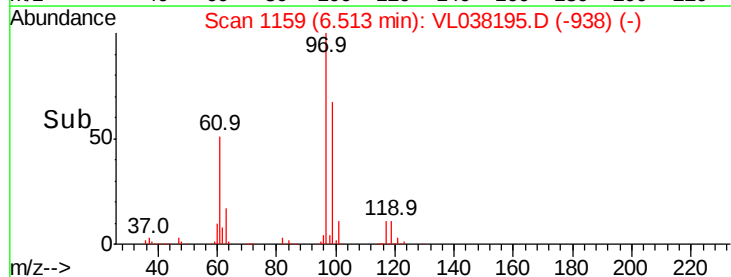
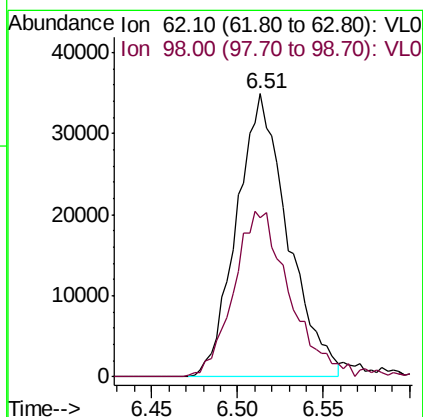
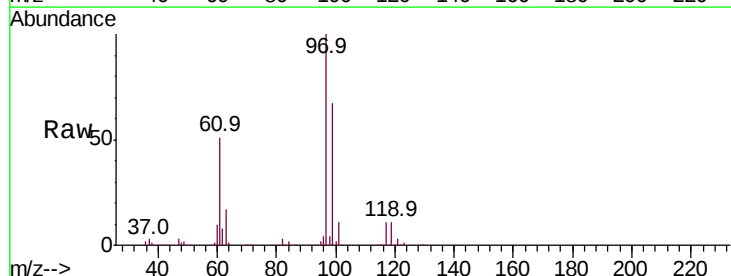


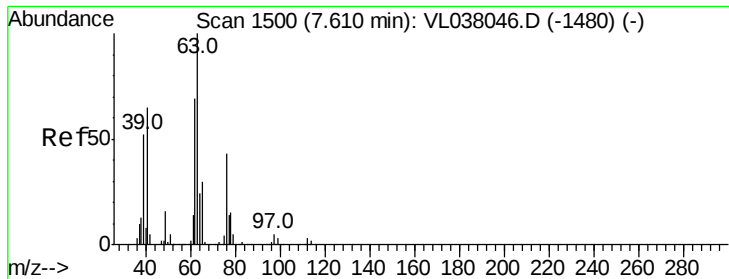
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 18:49

Tot Ion: 114 Resp: 2741186
 Ion Ratio Lower Upper
 114 100
 63 27.0 19.7 29.5
 88 18.7 14.4 21.6



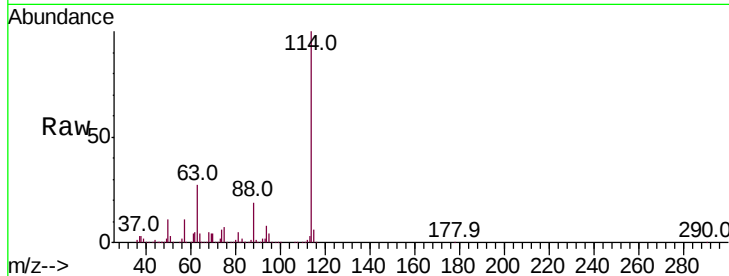
#37
 1,2-Dichloroethane
 Concen: 0.548 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T.: 0.21 min
 Lab File: VL038195.D
 Acq: 16 Dec 2021 18:49
 Tgt Ion: 62 Resp: 72338
 Ion Ratio Lower Upper
 62 100
 98 65.0 5.8 8.6#





#39
 1,2-Dichloropropane
 Concen: 6.812 ppbv
 RT: 7.18 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 18:49

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	16.9	55.1	82.7#

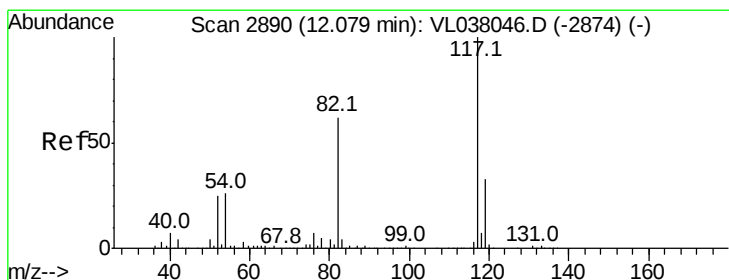
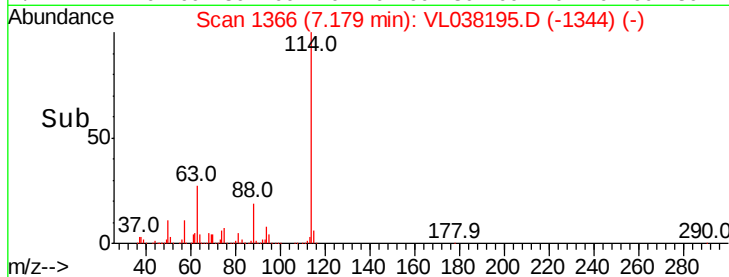
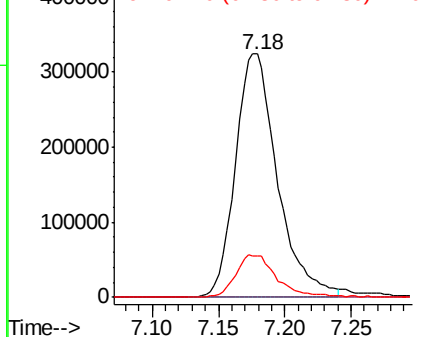


Abundance

Ion 63.10 (62.80 to 63.80): VL0

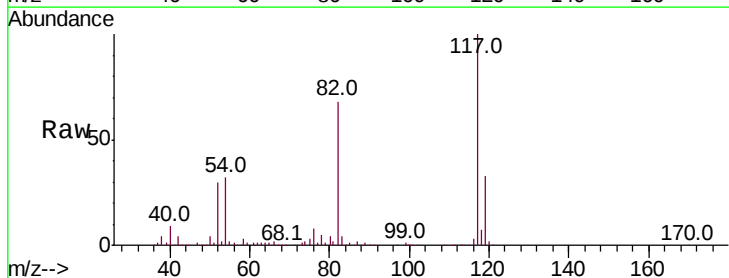
Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2892
 Delta R.T.: 0.01 min
 Lab File: VL038195.D
 Acq: 16 Dec 2021 18:49

Tgt Ion	Ratio	Lower	Upper
117	100		
82	71.2	52.8	79.2
119	34.0	26.8	40.2

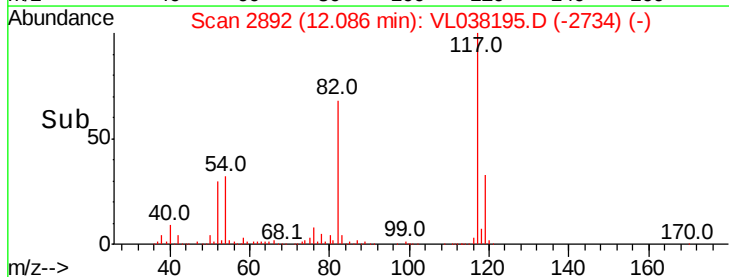
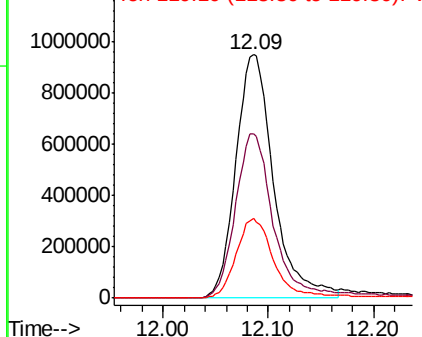


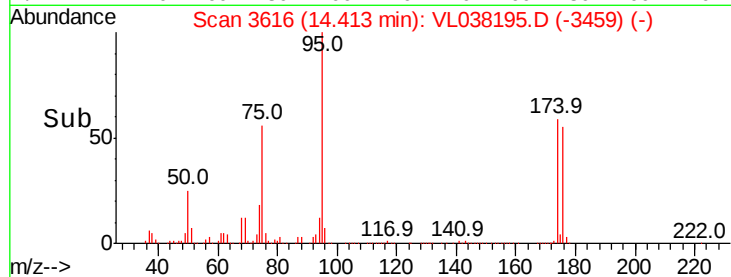
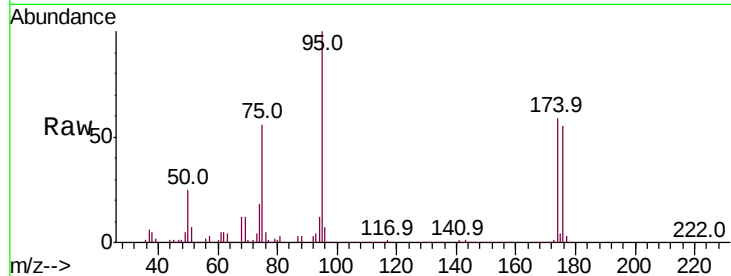
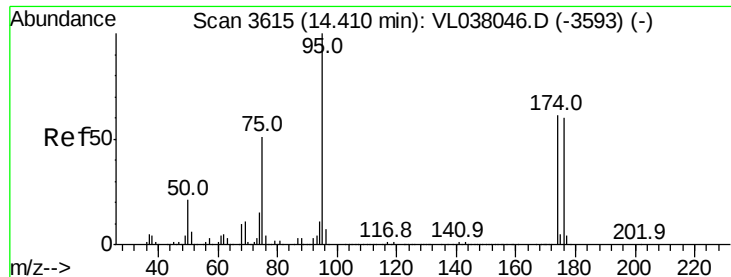
Abundance

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: 10.455 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 16 Dec 2021 18:49

Tot Ion: 95 Resp: 1783263

Ion Ratio Lower Upper

95 100

174 63.3 53.1 79.7

175 4.8 4.0 6.0

