

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038158.D
 Acq On : 7 Dec 2021 20:02
 Operator : SY/AP
 Sample : M4897-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL

Quant Time: Dec 08 02:03:32 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	5.65	49	764452	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2217683	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	1893394	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1588604	11.63	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	116.30%

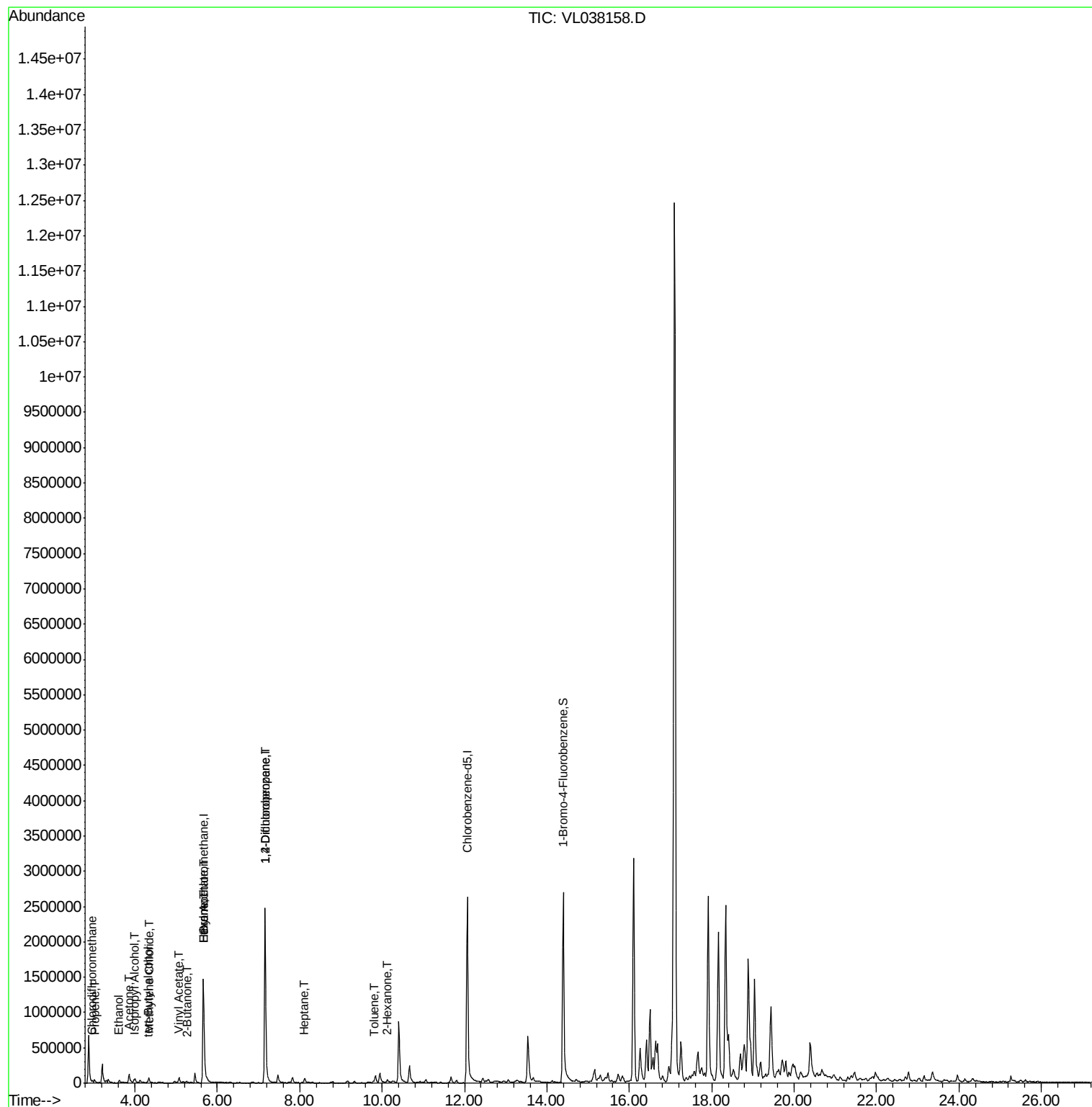
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	29740	0.185	ppbv #	68
9) Propene	3.02	41	14183	0.240	ppbv #	82
10) Heptane	8.10	43	6535	0.045	ppbv #	27
13) Ethanol	3.61	45	32284	5.650	ppbv	76
15) Acetone	3.86	43	168299	2.539	ppbv #	86
17) tert-Butyl alcohol	4.30	59	7036	0.088	ppbv #	49
19) Isopropyl Alcohol	3.98	45	43276	0.904	ppbv #	72
20) Methylene Chloride	4.34	84	24722	0.666	ppbv	97
23) Vinyl Acetate	5.07	43	107759	1.123	ppbv #	94
25) Ethyl Acetate	5.67	43	116973	0.531	ppbv #	80
26) Hexane	5.67	57	79218	0.746	ppbv #	19
34) 2-Butanone	5.25	43	6544	0.073	ppbv #	52
39) 1,2-Dichloropropane	7.16	63	558791	6.585	ppbv #	26
51) 2-Hexanone	10.12	43	29675	0.464	ppbv #	66
53) Toluene	9.79	91	11706	0.046	ppbv #	41

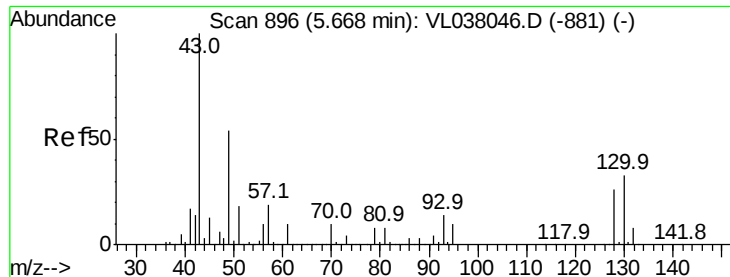
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120721\
Data File : VL038158.D
Acq On : 7 Dec 2021 20:02
Operator : SY/AP
Sample : M4897-01DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL

Quant Time: Dec 08 02:03:32 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-1DL

Acq: 7 Dec 2021 20:02

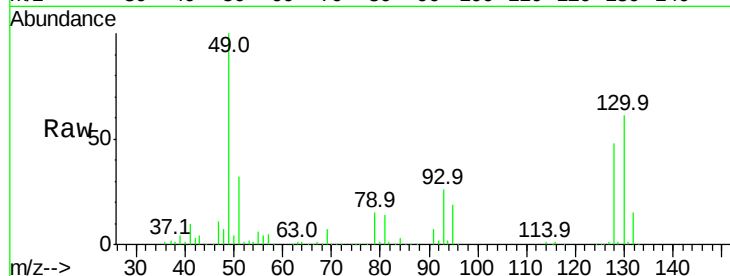
Tot Ion: 49 Resp: 764452

Ion Ratio Lower Upper

49 100

128 50.3 26.5 79.5

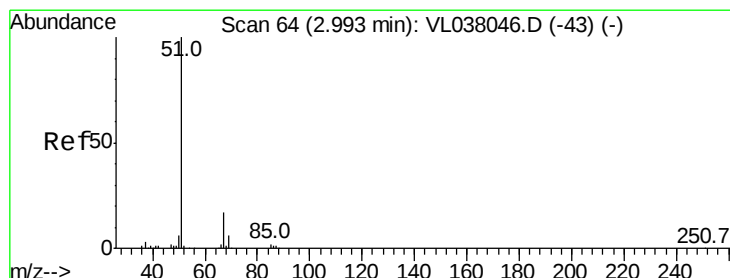
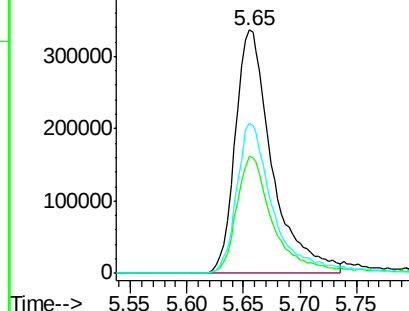
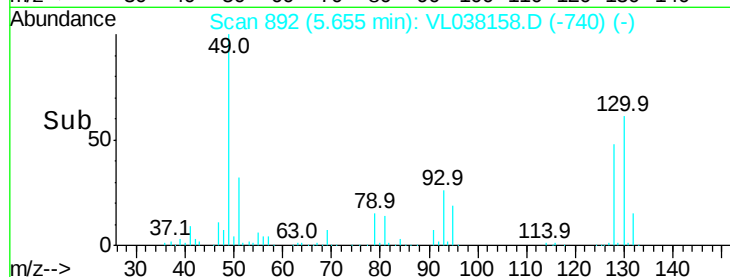
130 62.9 32.5 97.4



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



#3

Chlorodifluoromethane

Concen: 0.185 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL038158.D

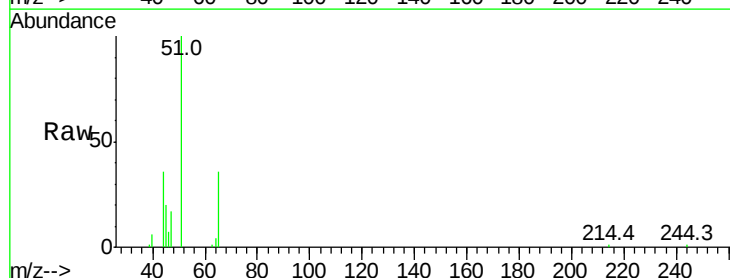
Acq: 7 Dec 2021 20:02

Tgt Ion: 51 Resp: 29740

Ion Ratio Lower Upper

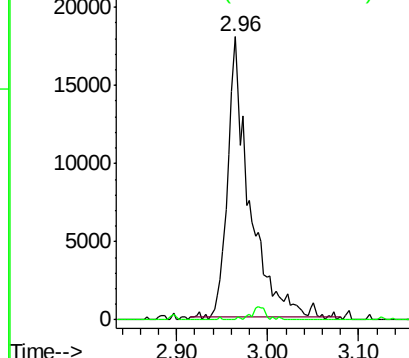
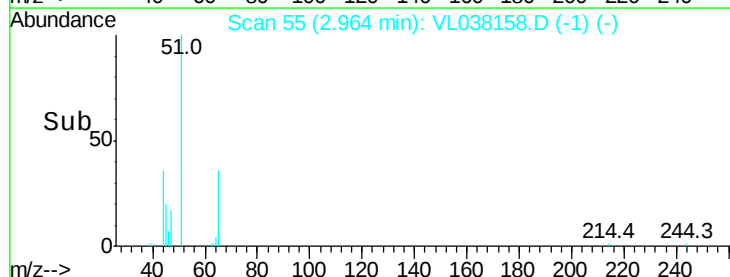
51 100

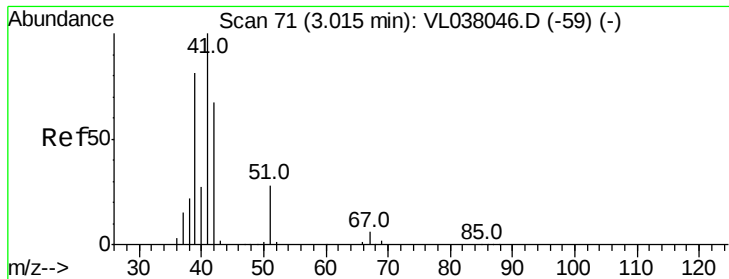
67 3.3 13.8 20.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.240 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

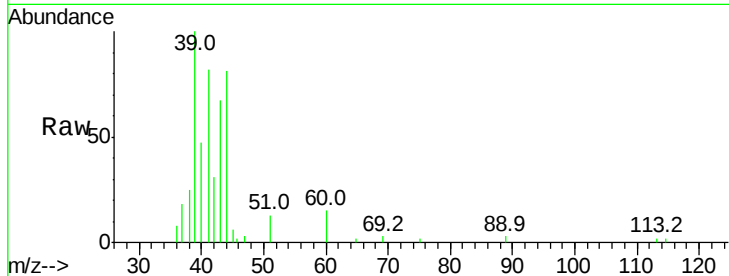
Acq: 7 Dec 2021 20:02 SV-1DL

Tot Ion: 41 Resp: 14183

Ion Ratio Lower Upper

41 100

42 53.0 53.8 80.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.02

8000

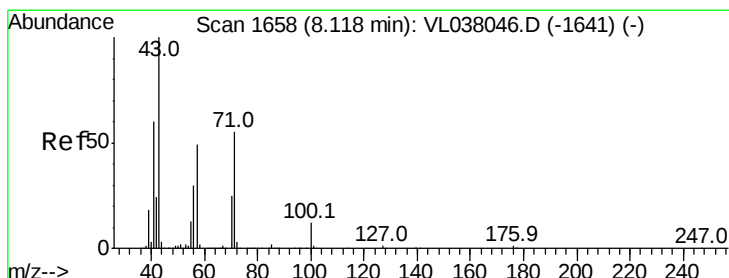
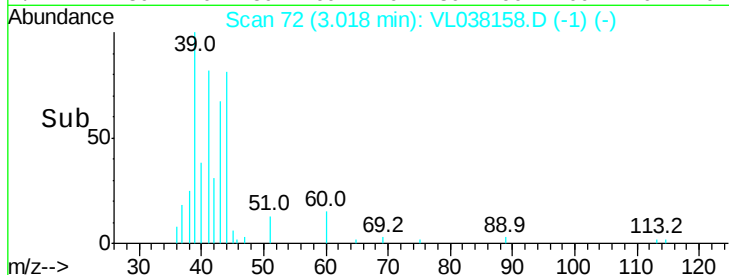
6000

4000

2000

0

Time--> 2.95 3.00 3.05



#10

Heptane

Concen: 0.045 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.02 min

Lab File: VL038158.D

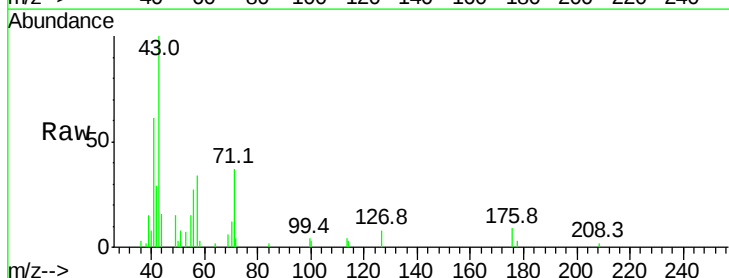
Acq: 7 Dec 2021 20:02

Tgt Ion: 43 Resp: 6535

Ion Ratio Lower Upper

43 100

57 0.0 40.4 60.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.10

8000

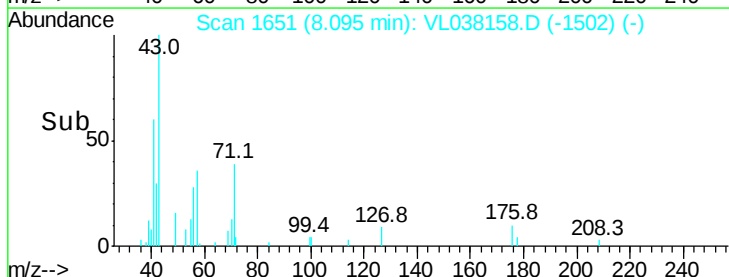
6000

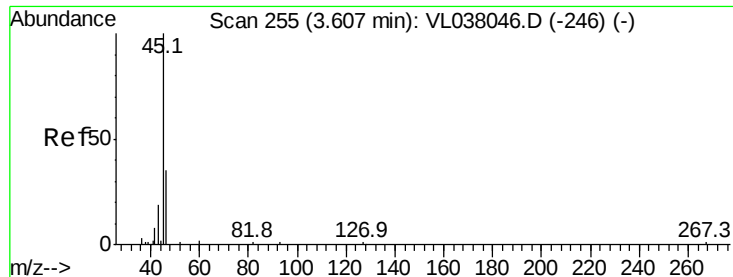
4000

2000

0

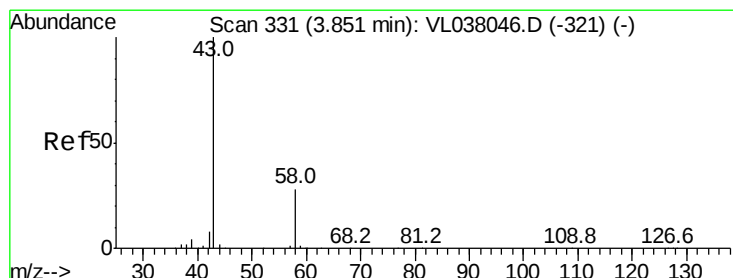
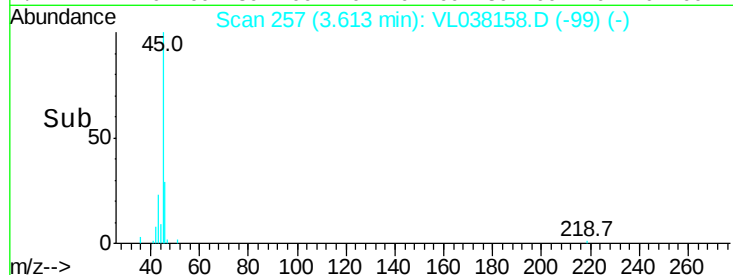
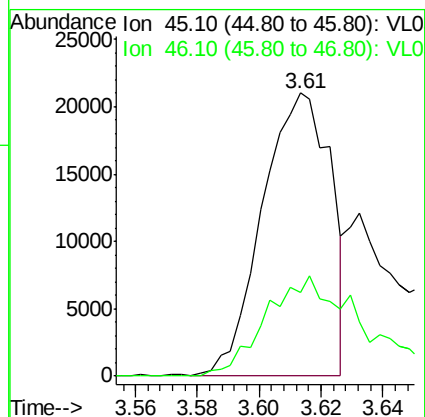
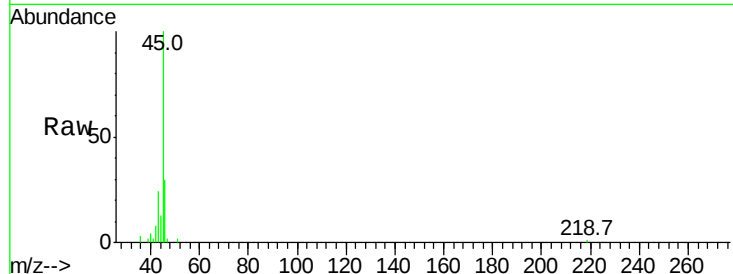
Time--> 8.07 8.08 8.09 8.10 8.11





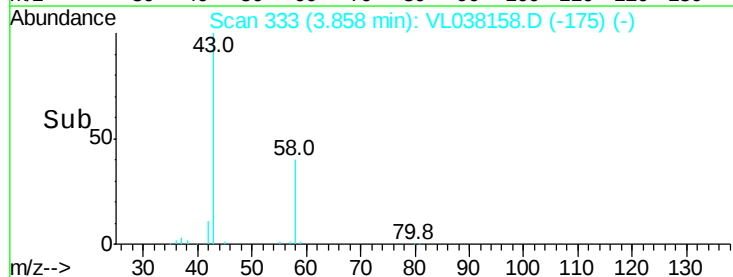
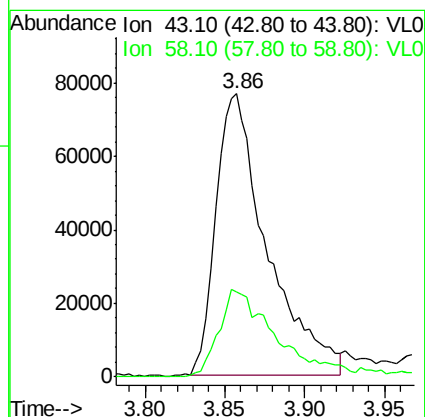
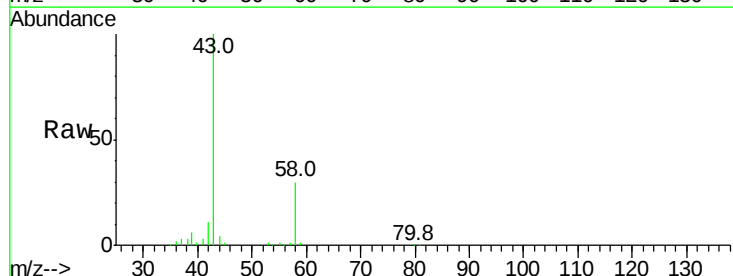
#13
Ethanol
Concen: 5.650 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 20:02

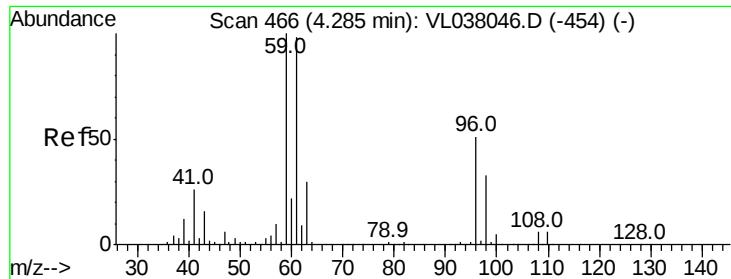
Tot Ion: 45 Resp: 32284
Ion Ratio Lower Upper
45 100
46 59.2 17.6 70.2



#15
Acetone
Concen: 2.539 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL038158.D
Acq: 7 Dec 2021 20:02

Tgt Ion: 43 Resp: 168299
Ion Ratio Lower Upper
43 100
58 35.6 22.4 33.6#





#17

tert-Butyl alcohol

Concen: 0.088 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

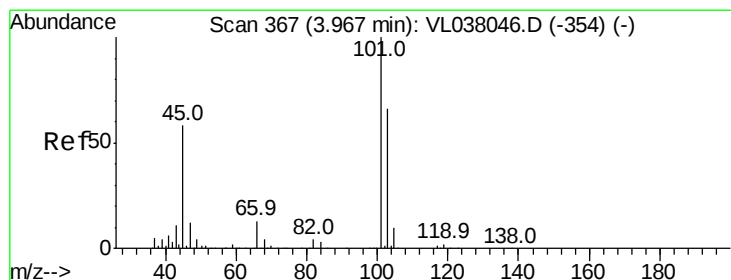
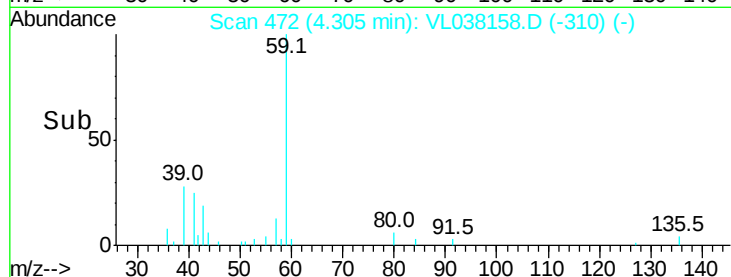
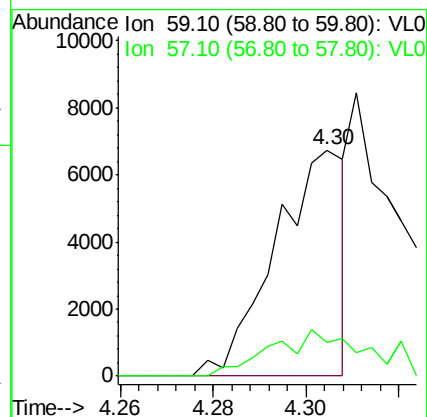
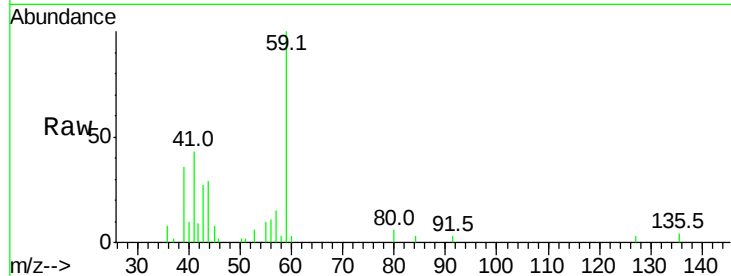
Acq: 7 Dec 2021 20:02 SV-1DL

Tot Ion: 59 Resp: 7036

Ion Ratio Lower Upper

59 100

57 30.2 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 0.904 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL038158.D

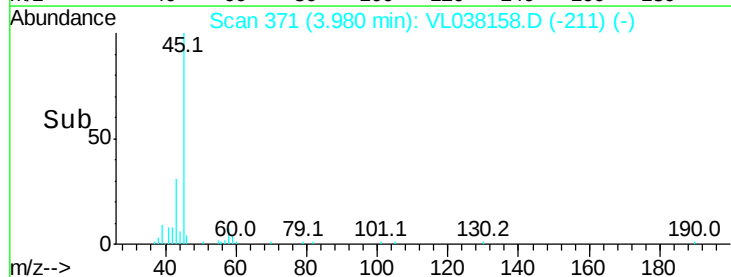
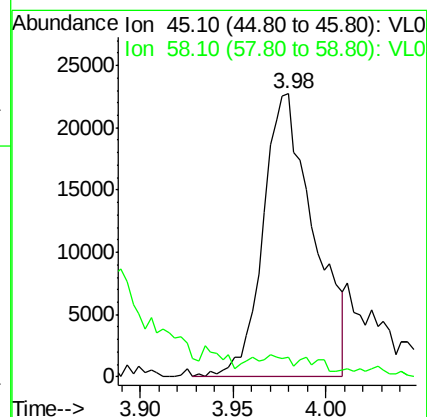
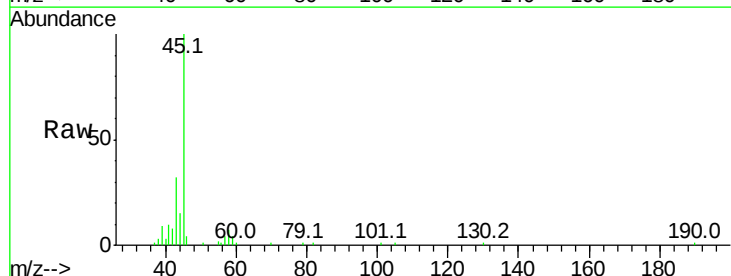
Acq: 7 Dec 2021 20:02

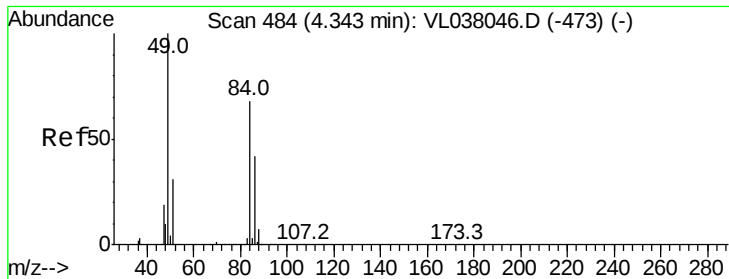
Tgt Ion: 45 Resp: 43276

Ion Ratio Lower Upper

45 100

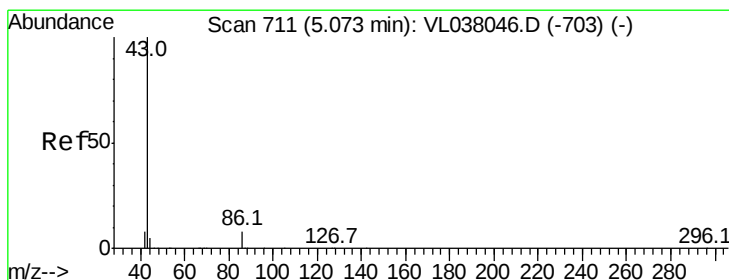
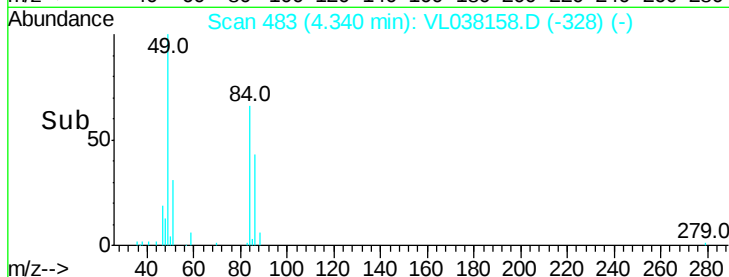
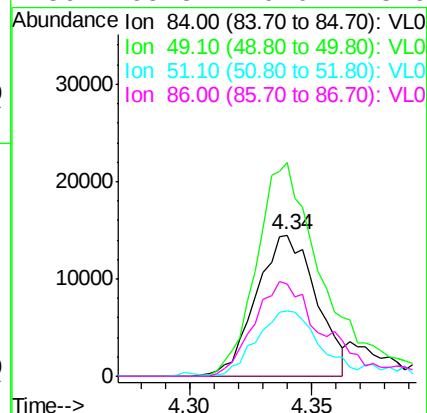
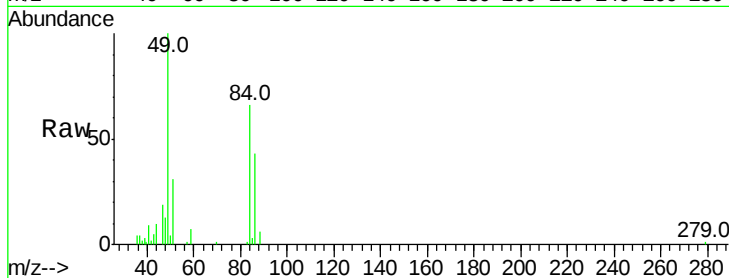
58 12.1 1.4 2.0#





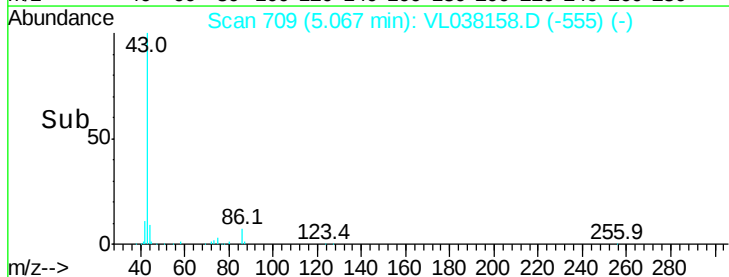
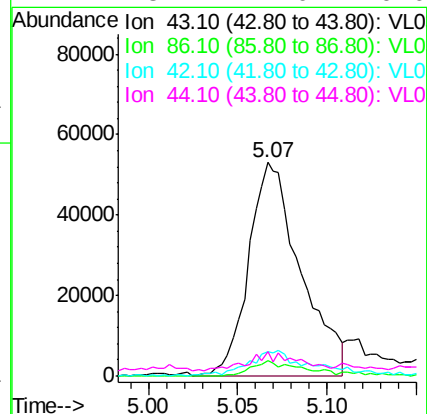
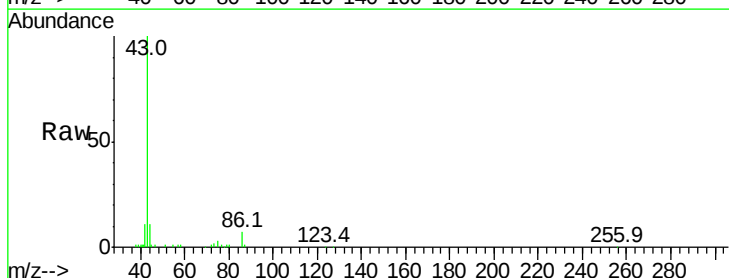
#20
Methylene Chloride
Concen: 0.666 ppbv
RT: 4.34
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 7 Dec 2021 20:02

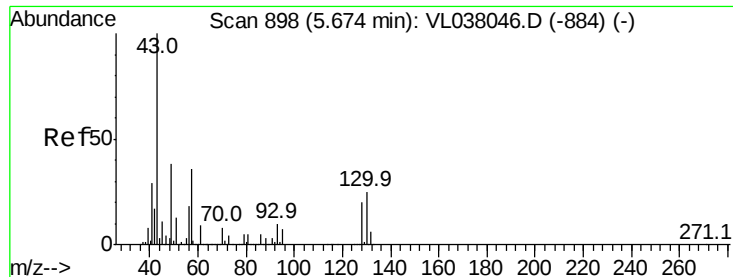
Tot Ion:	84	Resp:	24722
Ion	Ratio	Lower	Upper
84	100		
49	151.2	118.2	177.2
51	44.7	36.8	55.2
86	65.3	49.0	73.6



#23
Vinyl Acetate
Concen: 1.123 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL038158.D
Acq: 7 Dec 2021 20:02

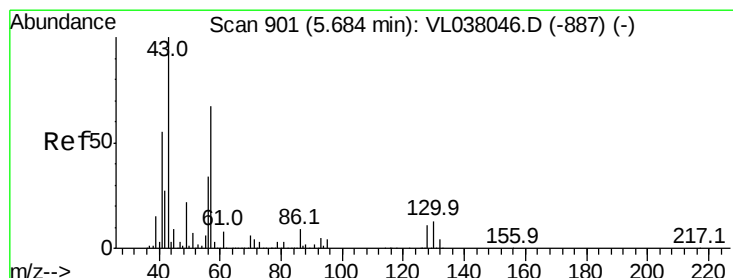
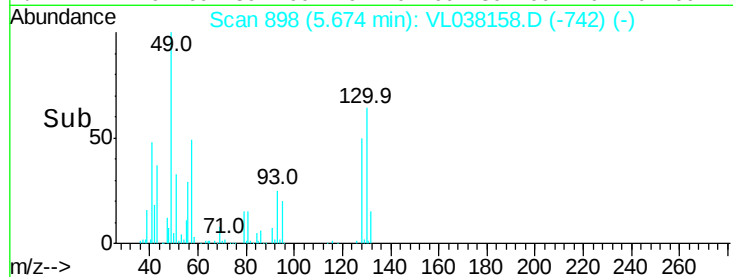
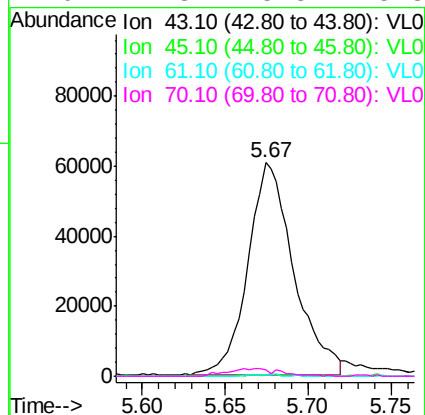
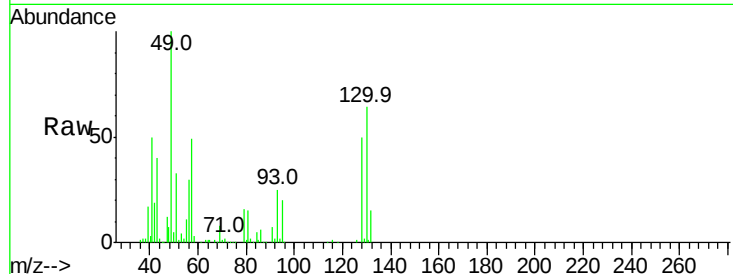
Tgt Ion:	43	Resp:	107759
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.3	7.9
42	11.1	7.0	10.6#
44	8.7	4.0	6.0#





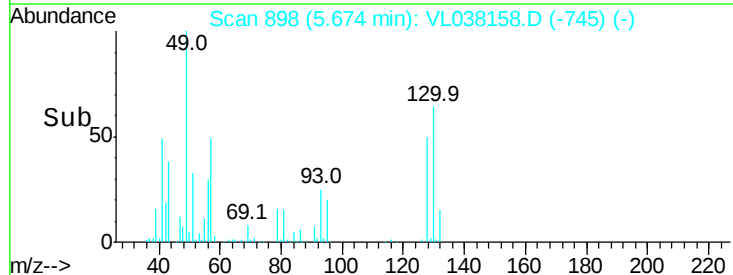
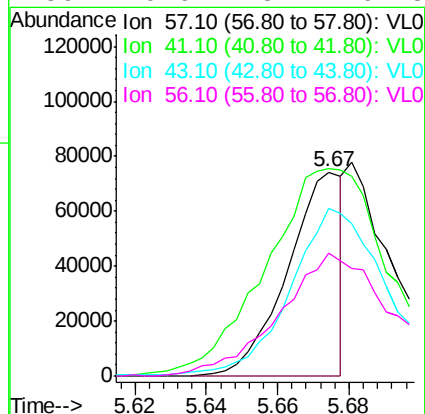
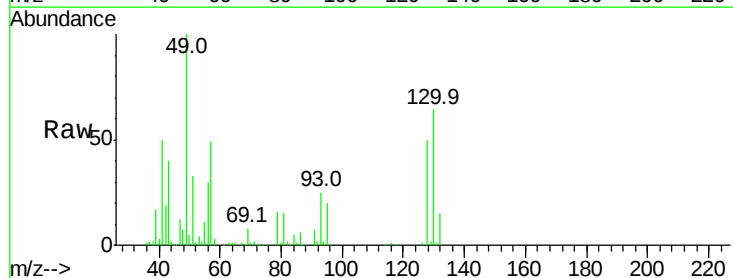
#25
Ethyl Acetate
Concen: 0.531 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 20:02

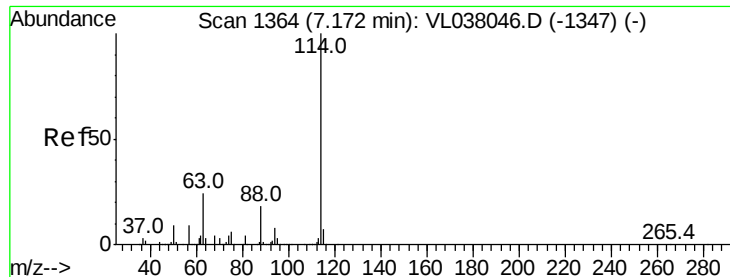
Tot Ion:	43	Resp:	116973
Ion	Ratio	Lower	Upper
43	100		
45	0.9	7.9	11.9#
61	0.5	7.8	11.6#
70	4.3	5.8	8.8#



#26
Hexane
Concen: 0.746 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL038158.D
Acq: 7 Dec 2021 20:02

Tgt Ion:	57	Resp:	79218
Ion	Ratio	Lower	Upper
57	100		
41	247.1	71.4	107.2#
43	156.5	174.6	261.8#
56	129.6	43.2	64.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Dec 2021 20:02 SV-1DL

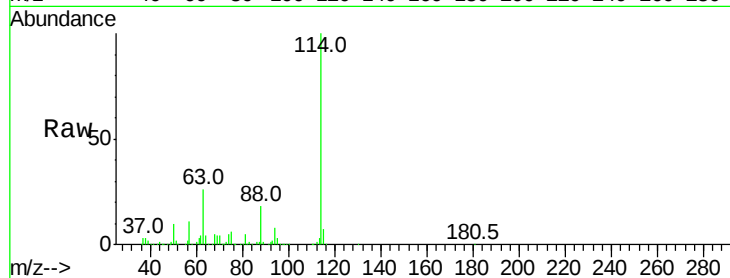
Tot Ion:114 Resp: 2217683

Ion Ratio Lower Upper

114 100

63 25.8 19.7 29.5

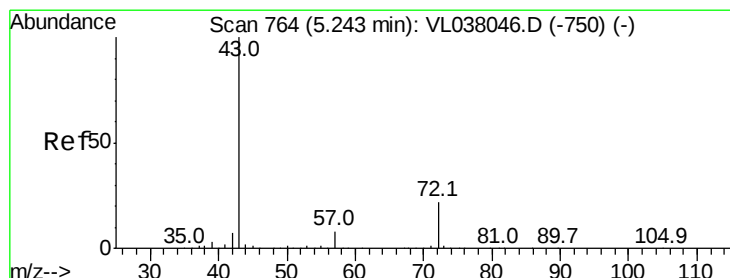
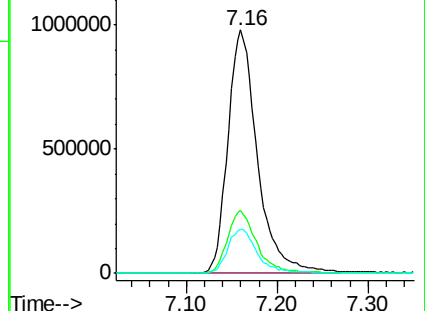
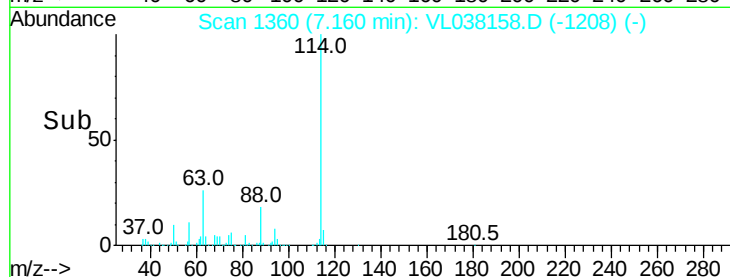
88 18.3 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.073 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.00 min

Lab File: VL038158.D

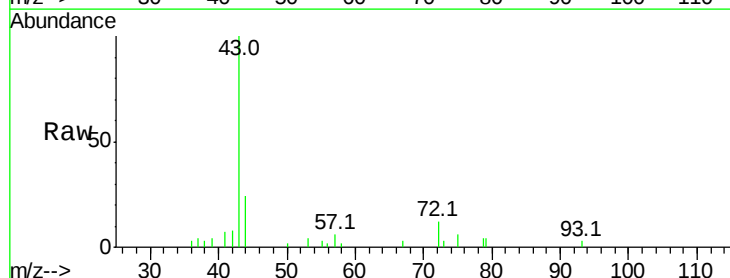
Acq: 7 Dec 2021 20:02

Tgt Ion: 43 Resp: 6544

Ion Ratio Lower Upper

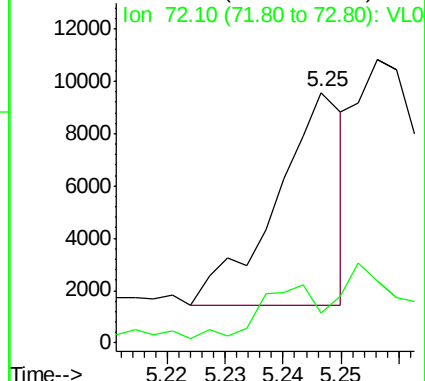
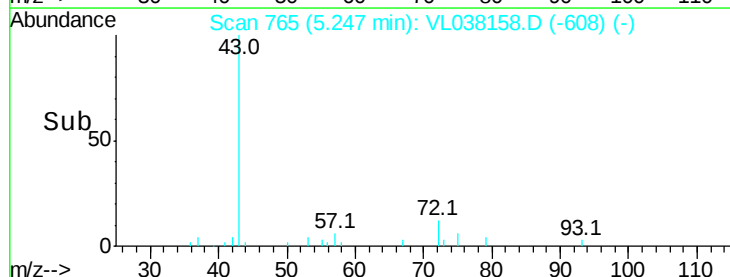
43 100

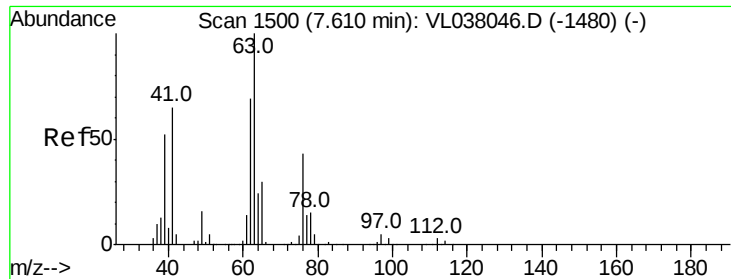
72 0.0 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

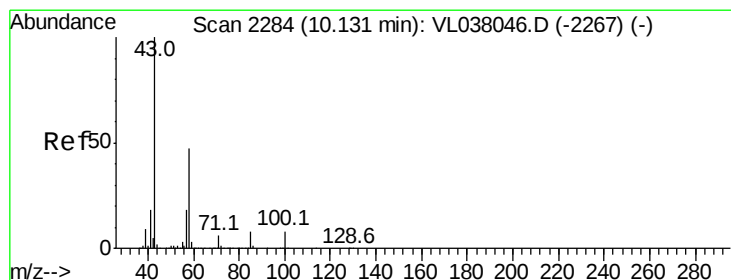
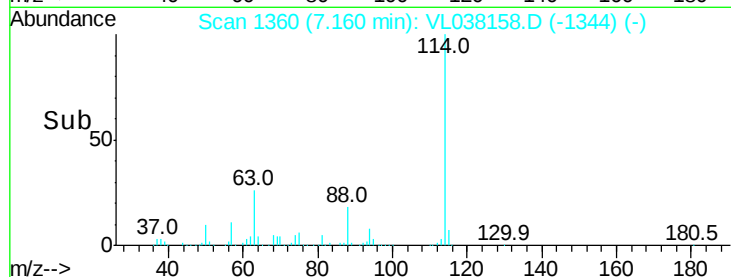
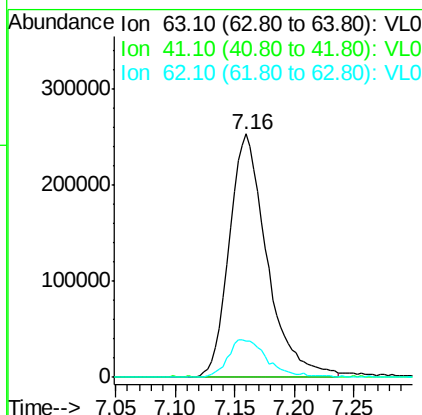
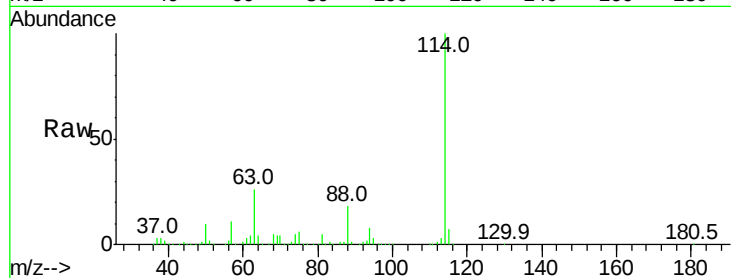
Ion 72.10 (71.80 to 72.80): VL0





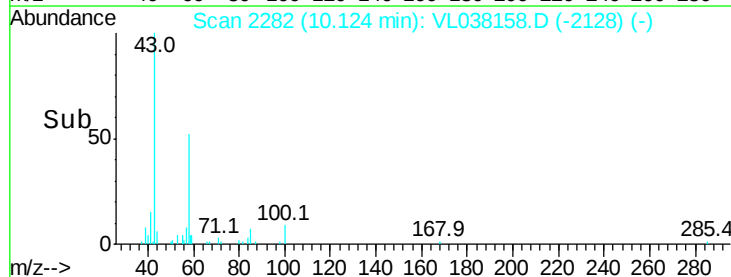
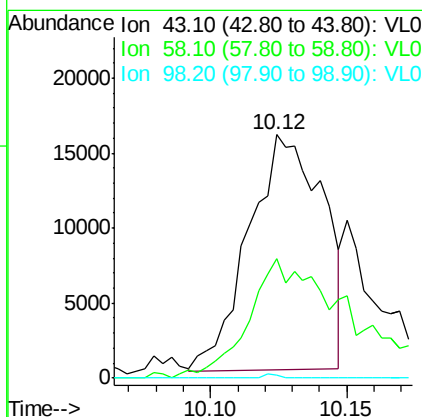
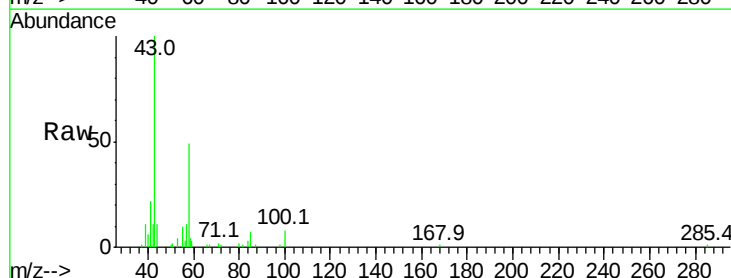
#39
 1,2-Dichloropropane
 Concen: 6.585 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Dec 2021 20:02

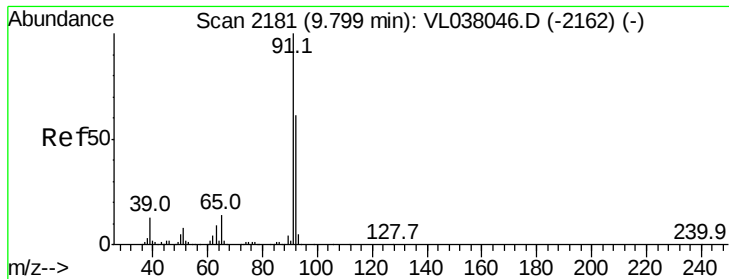
Tot Ion	63	Resp	558791
Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	14.9	55.1	82.7#



#51
 2-Hexanone
 Concen: 0.464 ppbv
 RT: 10.12 min Scan# 2282
 Delta R.T. -0.01 min
 Lab File: VL038158.D
 Acq: 7 Dec 2021 20:02

Tgt Ion	43	Resp	29675
Ion	Ratio	Lower	Upper
43	100		
58	75.2	41.1	61.7#
98	0.3	0.1	0.1#





#53

Toluene

Concen: 0.046 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

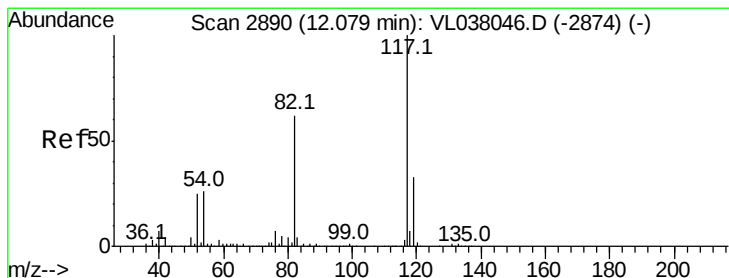
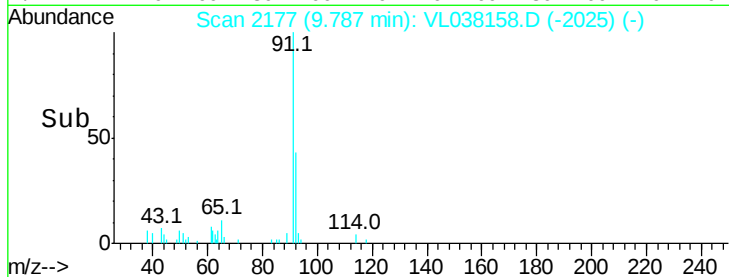
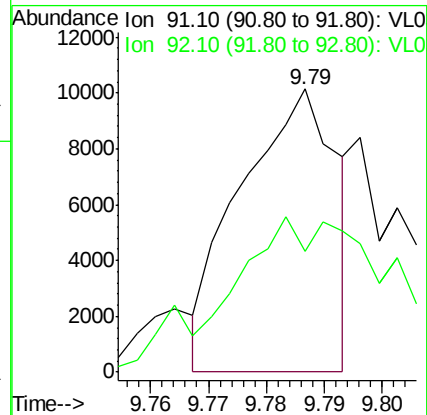
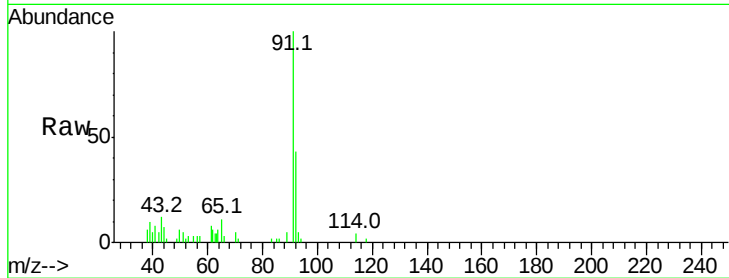
Acq: 7 Dec 2021 20:02 SV-1DL

Tot Ion: 91 Resp: 11706

Ion Ratio Lower Upper

91 100

92 107.6 49.7 74.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL038158.D

Acq: 7 Dec 2021 20:02

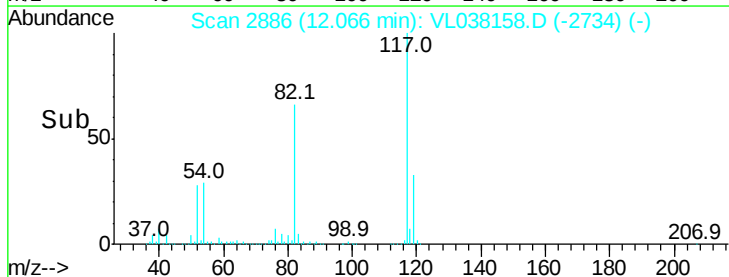
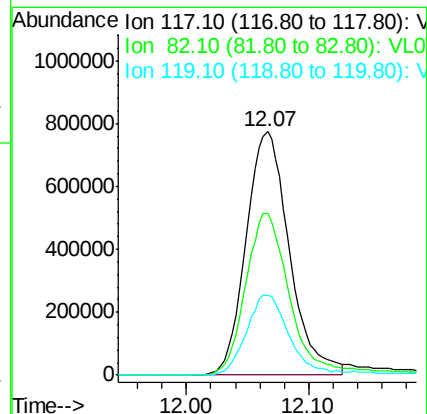
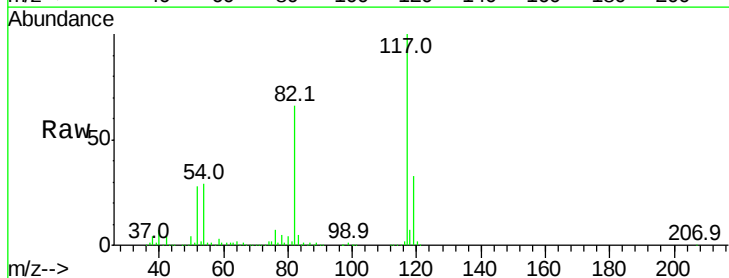
Tgt Ion: 117 Resp: 1893394

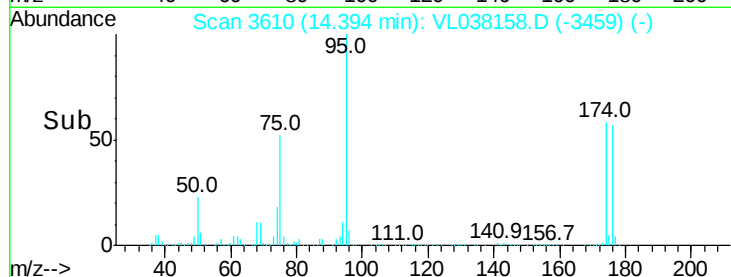
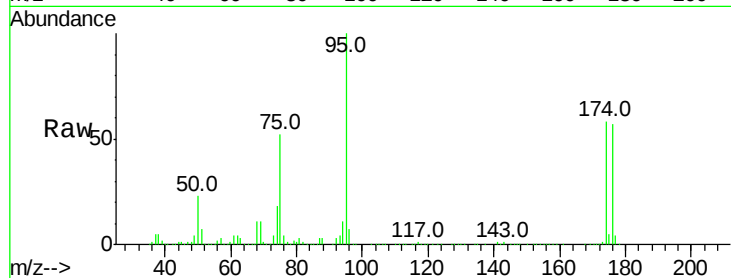
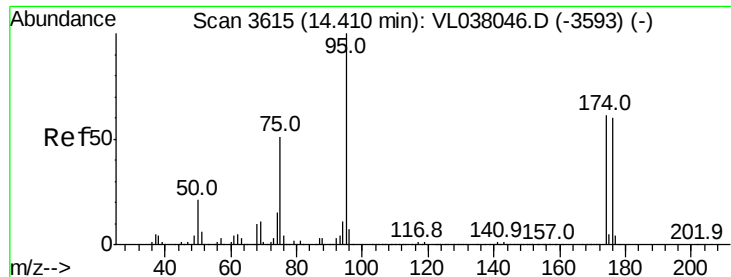
Ion Ratio Lower Upper

117 100

82 70.3 52.8 79.2

119 34.3 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 11.632 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Dec 2021 20:02 SV-1DL

Tot Ion: 95 Resp: 1588604

Ion Ratio Lower Upper

95 100

174 60.8 53.1 79.7

175 4.3 4.0 6.0

