

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120721\
 Data File : VL038147.D
 Acq On : 7 Dec 2021 12:53
 Operator : SY/AP
 Sample : M4827-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Dec 07 14:50:13 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	5.66	49	914865	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2431707	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2106946	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1665977	10.96	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.60%

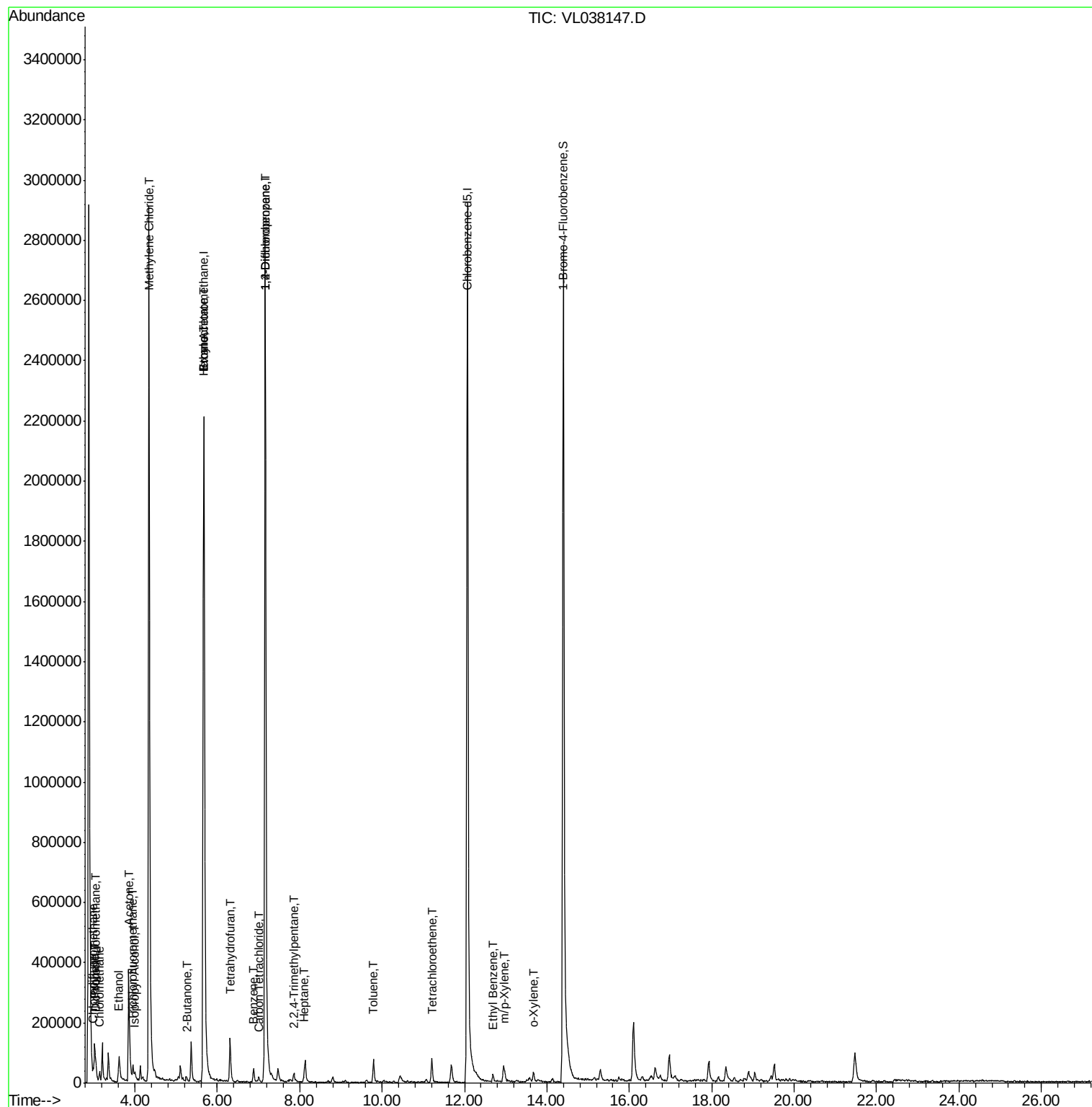
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	45484	0.301	ppbv	92
3) Chlorodifluoromethane	2.99	51	47757	0.249	ppbv	97
4) Chloromethane	3.14	50	30806	0.471	ppbv	97
9) Propene	3.02	41	30911	0.437	ppbv	84
10) Heptane	8.10	43	6691	0.038	ppbv #	27
11) Trichlorofluoromethane	3.95	101	16664	0.116	ppbv	89
13) Ethanol	3.60	45	42312	6.188	ppbv #	32
15) Acetone	3.85	43	456669	5.757	ppbv	99
19) Isopropyl Alcohol	3.98	45	8828	0.154	ppbv #	95
20) Methylene Chloride	4.34	84	1319681	29.703	ppbv	98
25) Ethyl Acetate	5.68	43	496456	1.883	ppbv #	77
26) Hexane	5.68	57	708552	5.576	ppbv #	44
34) 2-Butanone	5.24	43	14553	0.148	ppbv	92
35) Carbon Tetrachloride	7.01	117	8794	0.051	ppbv #	60
36) Benzene	6.88	78	25529	0.105	ppbv	98
39) 1,2-Dichloropropane	7.16	63	631503	6.787	ppbv #	27
41) Tetrahydrofuran	6.31	42	14294	0.235	ppbv #	37
44) 2,2,4-Trimethylpentane	7.85	57	12373	0.030	ppbv #	16
52) Tetrachloroethene	11.21	164	18570	0.207	ppbv #	82
53) Toluene	9.79	91	53744	0.193	ppbv	99
58) Ethyl Benzene	12.69	91	10485	0.030	ppbv	98
59) m/p-Xylene	12.97	91	19108	0.065	ppbv #	29
60) o-Xylene	13.68	91	11978	0.044	ppbv #	37

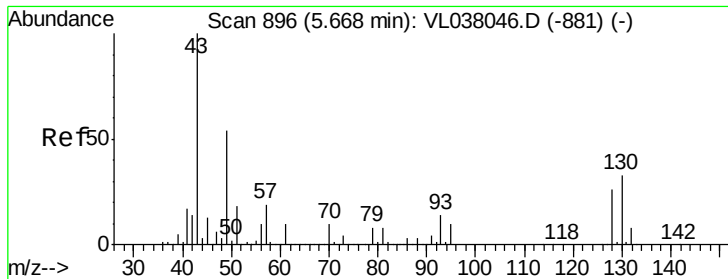
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: AA-1

Acq: 7 Dec 2021 12:55

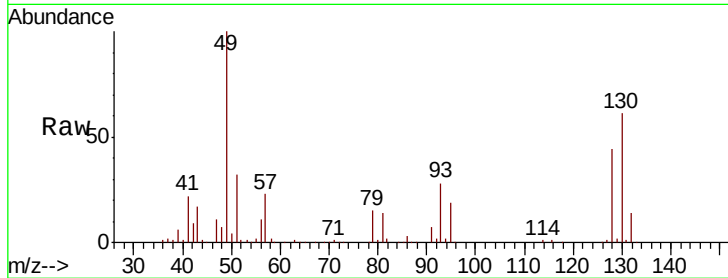
Tot Ion: 49 Resp: 914865

Ion Ratio Lower Upper

49 100

128 47.6 26.5 79.5

130 60.7 32.5 97.4



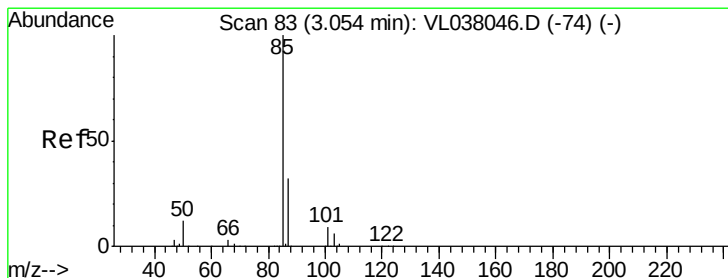
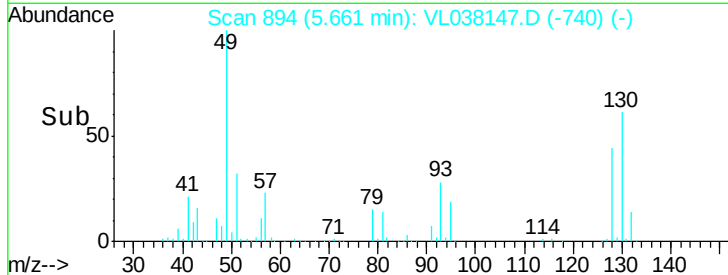
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.66

Time--> 5.55 5.60 5.65 5.70 5.75



#2

Dichlorodifluoromethane

Concen: 0.301 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038147.D

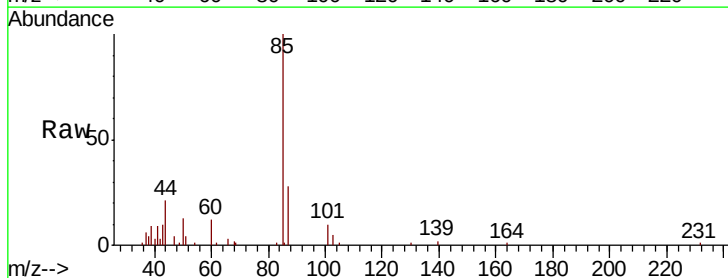
Acq: 7 Dec 2021 12:53

Tgt Ion: 85 Resp: 45484

Ion Ratio Lower Upper

85 100

87 27.8 25.8 38.6

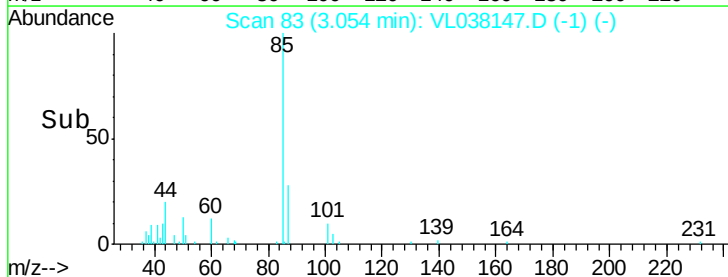


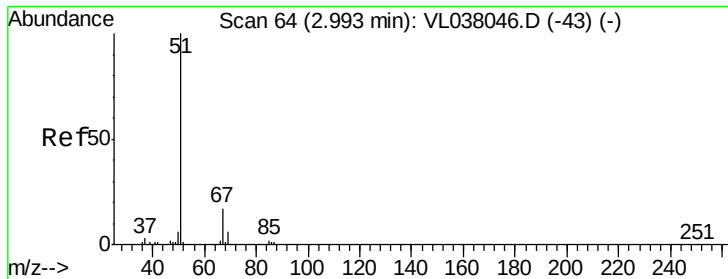
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time--> 3.00 3.05





#3

Chlorodifluoromethane

Concen: 0.249 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-1

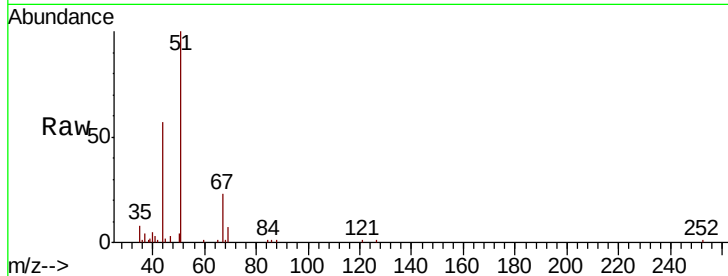
Acq: 7 Dec 2021 12:55

Tot Ion: 51 Resp: 47757

Ion Ratio Lower Upper

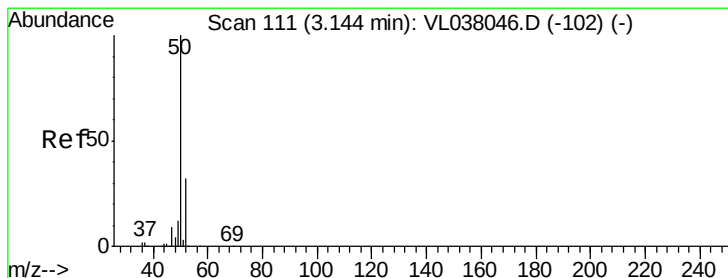
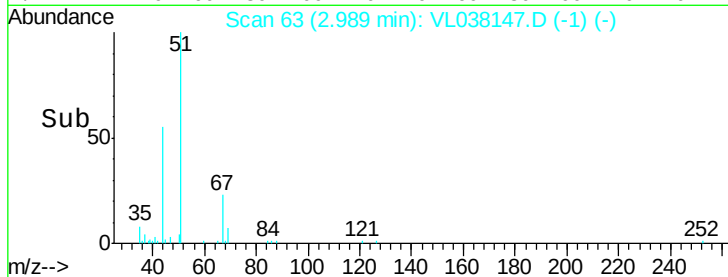
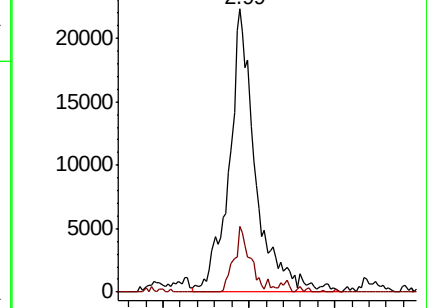
51 100

67 16.0 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.471 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038147.D

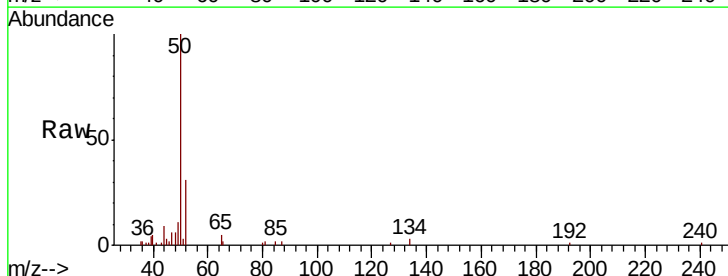
Acq: 7 Dec 2021 12:53

Tgt Ion: 50 Resp: 30806

Ion Ratio Lower Upper

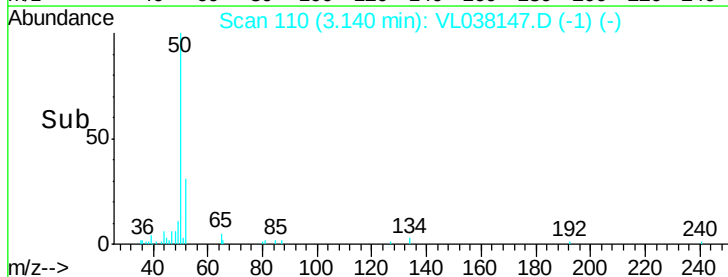
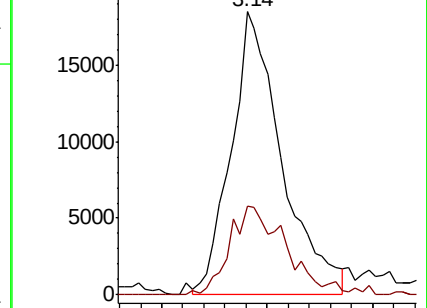
50 100

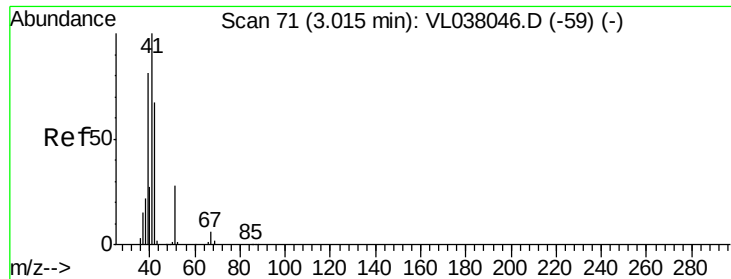
52 30.2 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.437 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

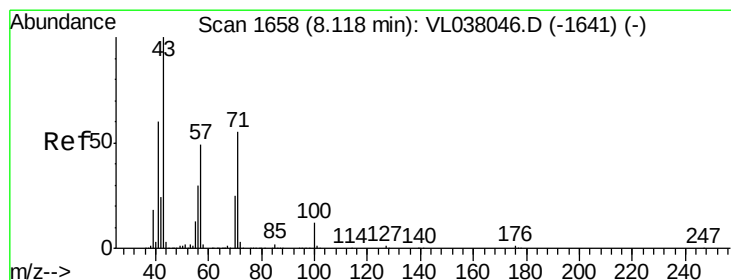
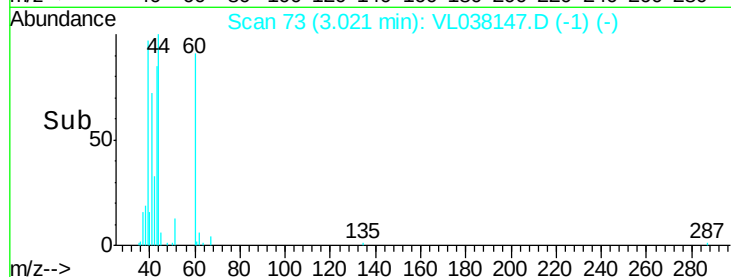
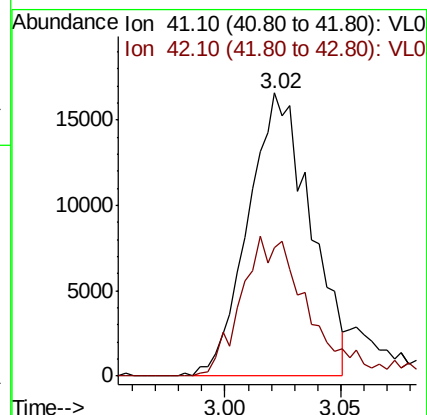
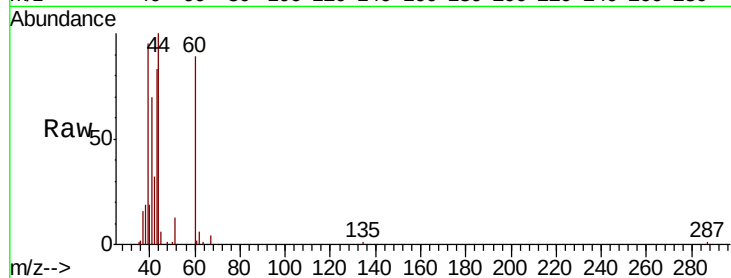
Acq: 7 Dec 2021 12:55

Tot Ion: 41 Resp: 30911

Ion Ratio Lower Upper

41 100

42 54.7 53.8 80.8



#10

Heptane

Concen: 0.038 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.01 min

Lab File: VL038147.D

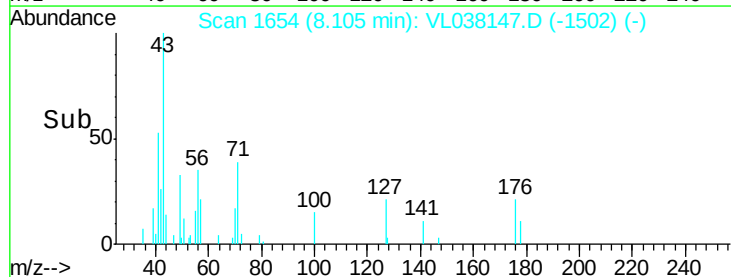
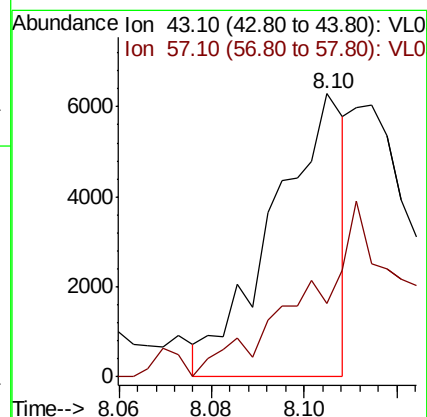
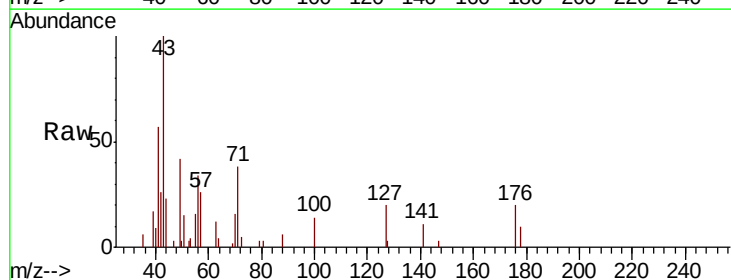
Acq: 7 Dec 2021 12:53

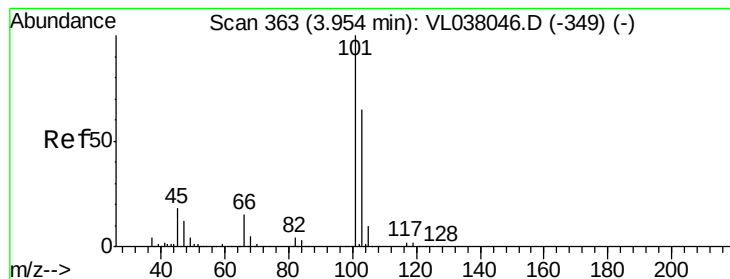
Tgt Ion: 43 Resp: 6691

Ion Ratio Lower Upper

43 100

57 0.0 40.4 60.6#





#11

Trichlorofluoromethane

Concen: 0.116 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

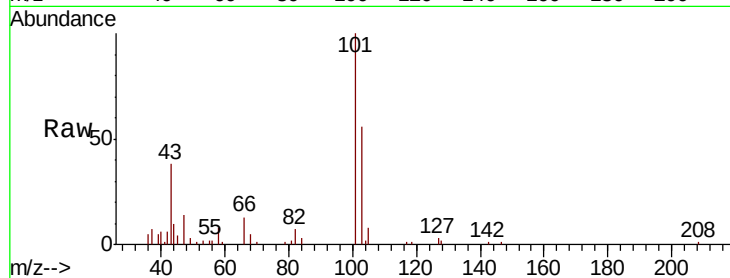
Acq: 7 Dec 2021 12:55

Tot Ion:101 Resp: 16664

Ion Ratio Lower Upper

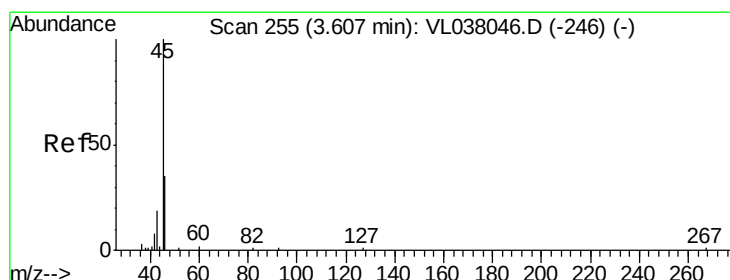
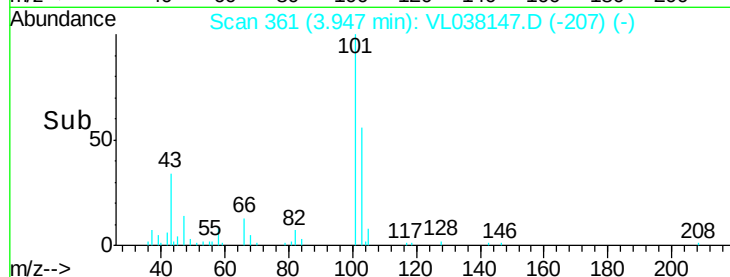
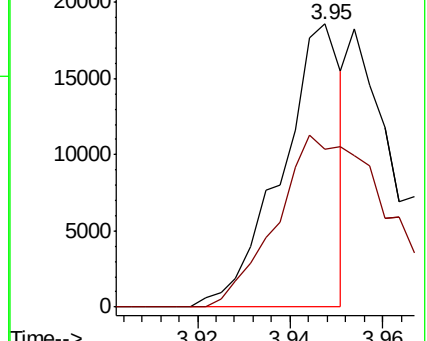
101 100

103 55.9 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 6.188 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL038147.D

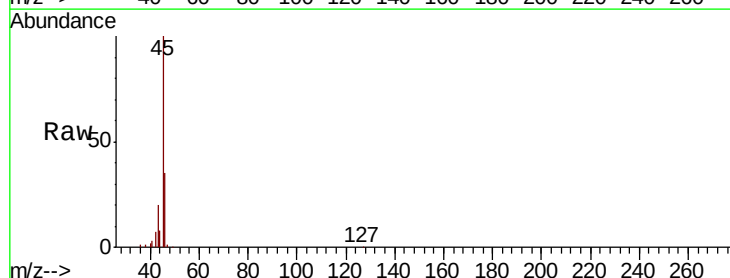
Acq: 7 Dec 2021 12:53

Tgt Ion: 45 Resp: 42312

Ion Ratio Lower Upper

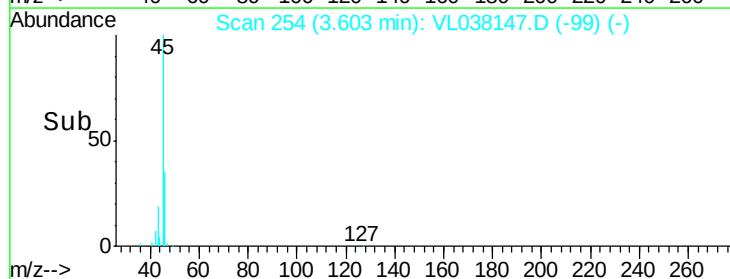
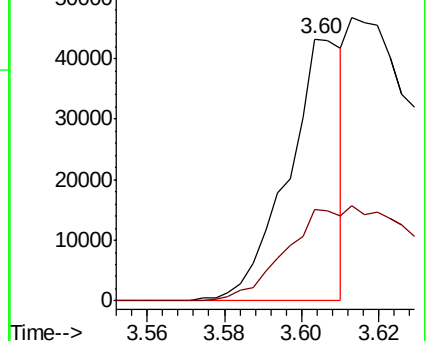
45 100

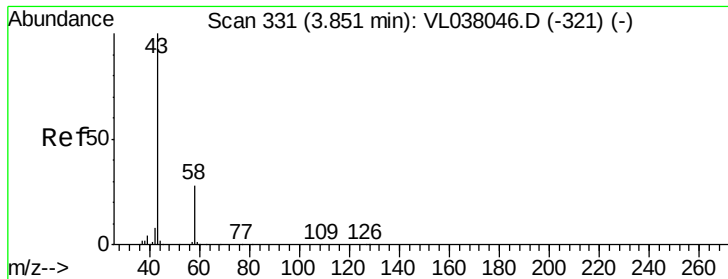
46 0.0 17.6 70.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

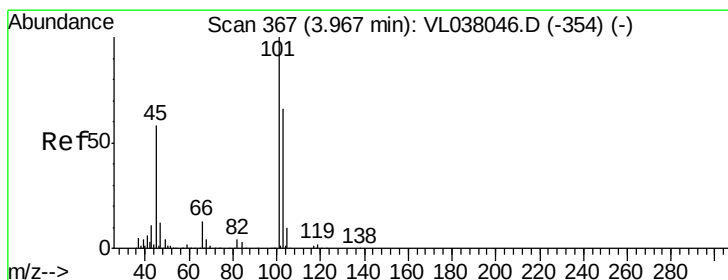
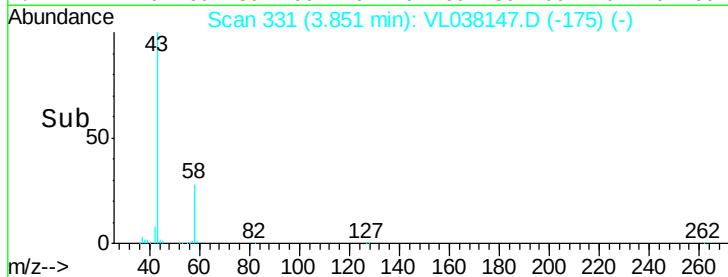
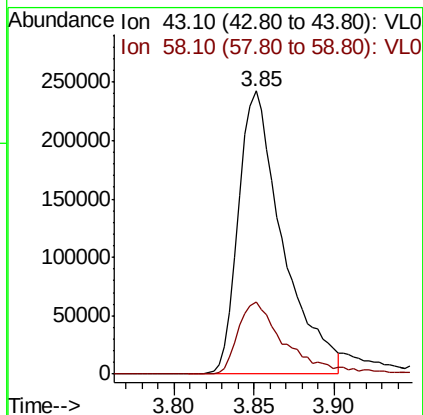
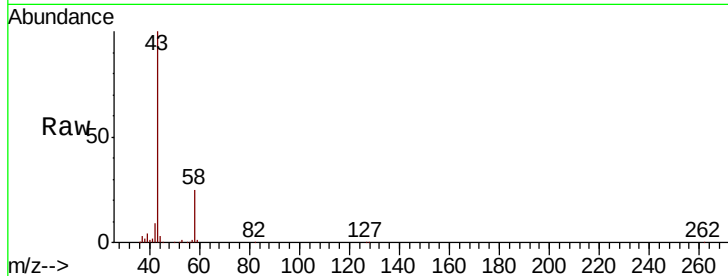
Ion 46.10 (45.80 to 46.80): VL0





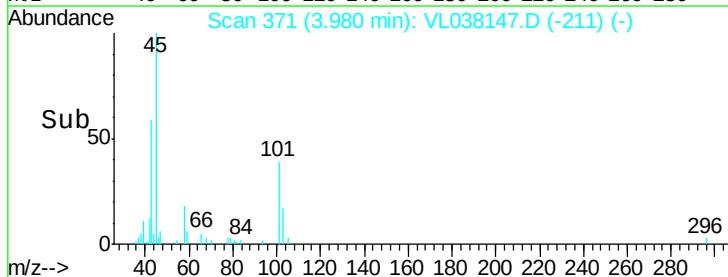
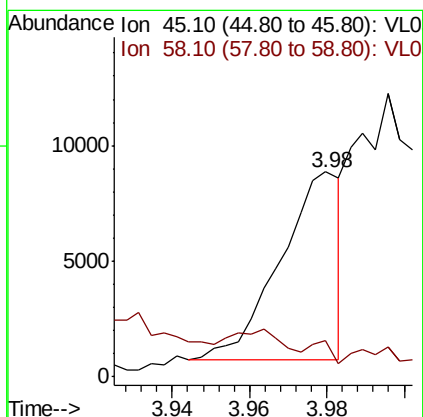
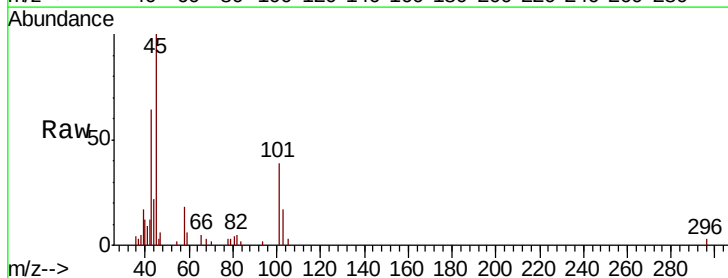
#15
Acetone
Concen: 5.757 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:53

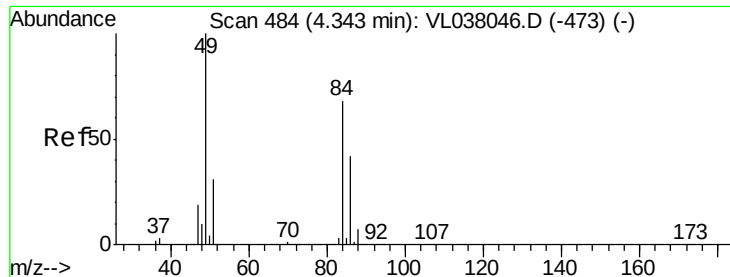
Tot Ion: 43 Resp: 456669
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6



#19
Isopropyl Alcohol
Concen: 0.154 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion: 45 Resp: 8828
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.0#

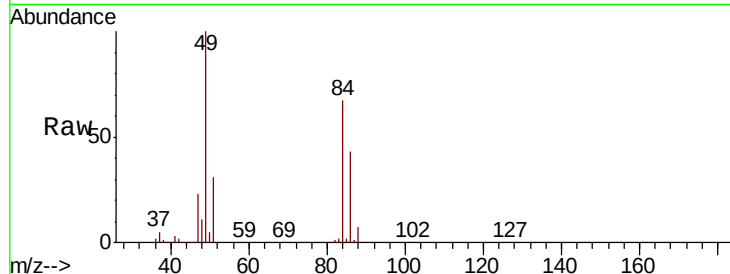




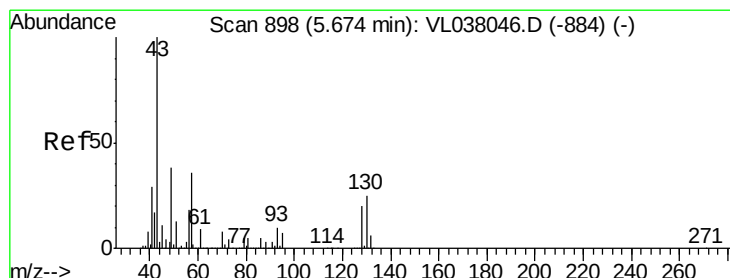
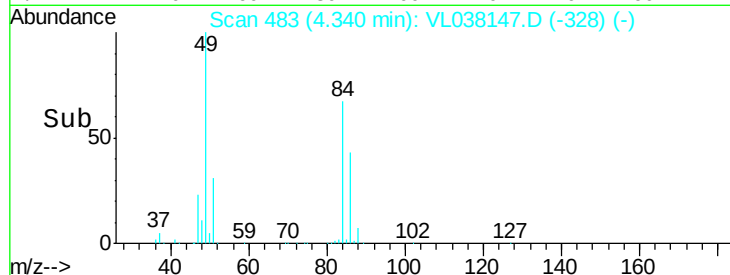
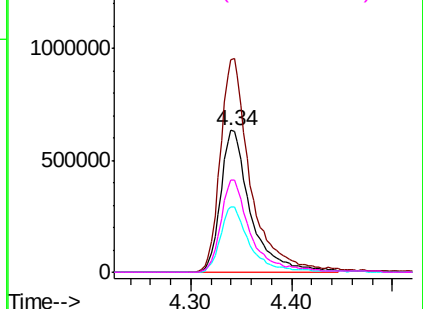
#20
Methylene Chloride
Concen: 29.703 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion: 84 Resp: 1319681

Ion	Ratio	Lower	Upper
84	100		
49	150.2	118.2	177.2
51	46.5	36.8	55.2
86	64.7	49.0	73.6



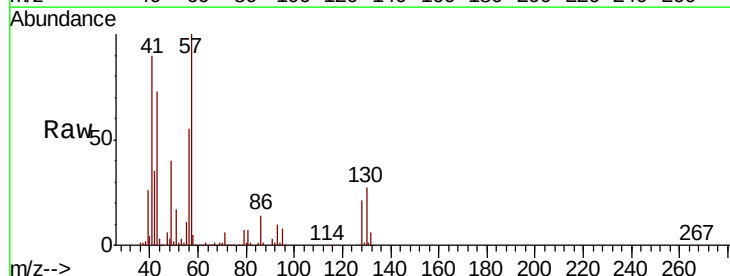
Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0



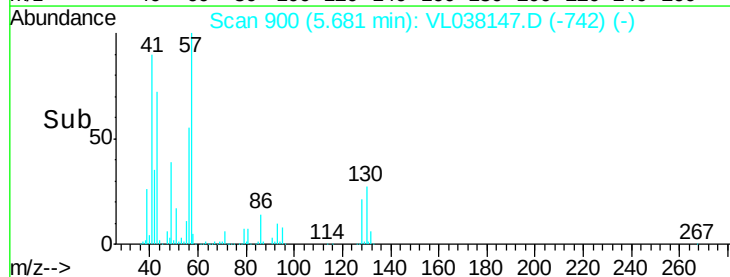
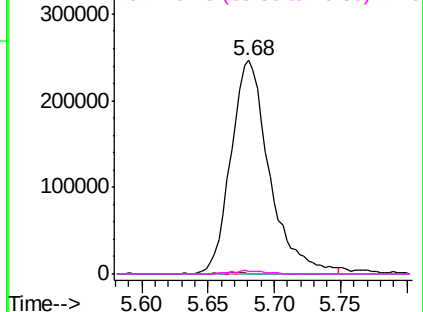
#25
Ethyl Acetate
Concen: 1.883 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

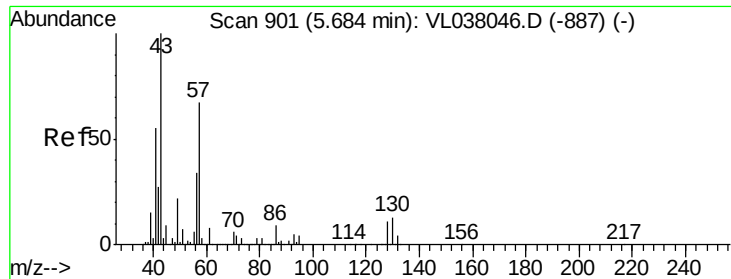
Tgt Ion: 43 Resp: 496456

Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.9	11.9#
61	0.3	7.8	11.6#
70	1.5	5.8	8.8#



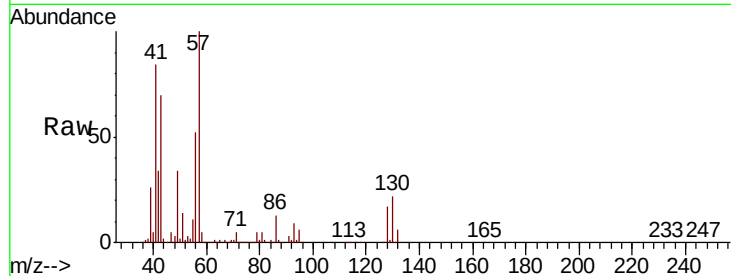
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26
Hexane
Concen: 5.576 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

Tot Ion:	57	Resp:	708552
Ion	Ratio	Lower	Upper
57	100		
41	90.6	71.4	107.2
43	72.0	174.6	261.8#
56	54.1	43.2	64.8



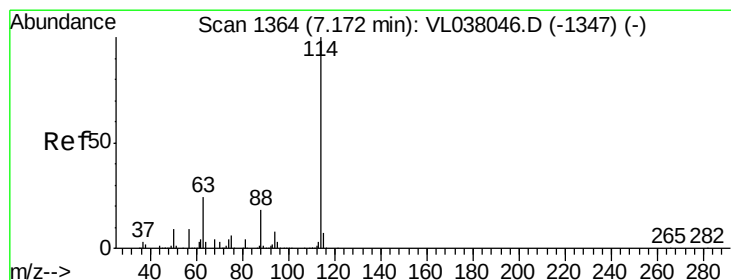
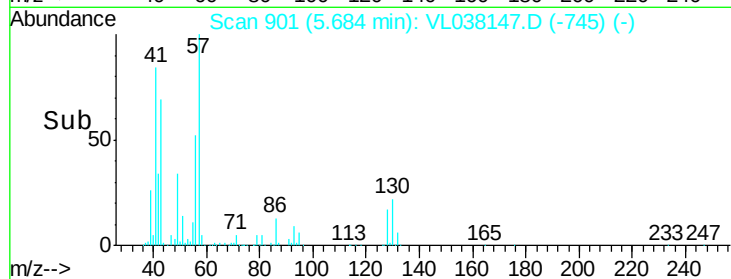
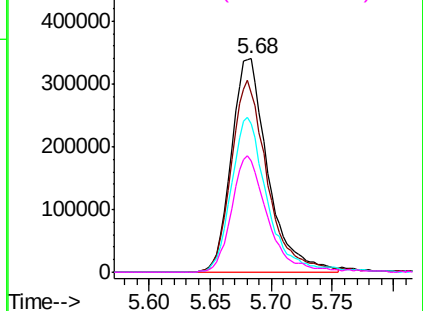
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

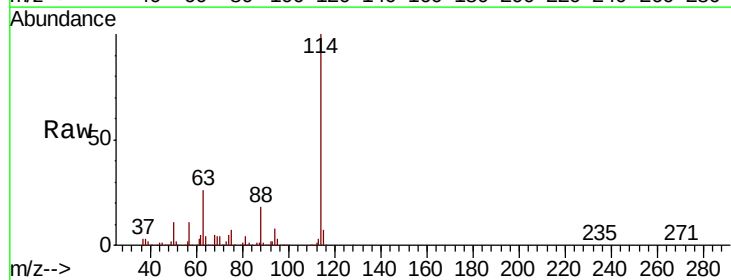
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion:	114	Resp:	2431707
Ion	Ratio	Lower	Upper
114	100		
63	26.5	19.7	29.5
88	18.7	14.4	21.6

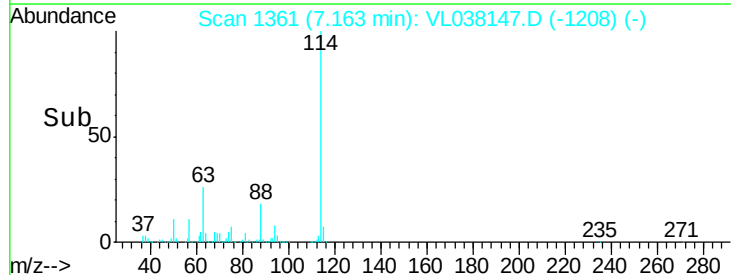
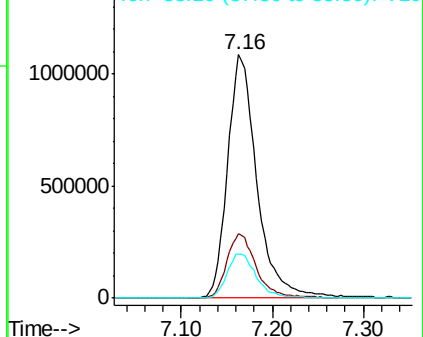


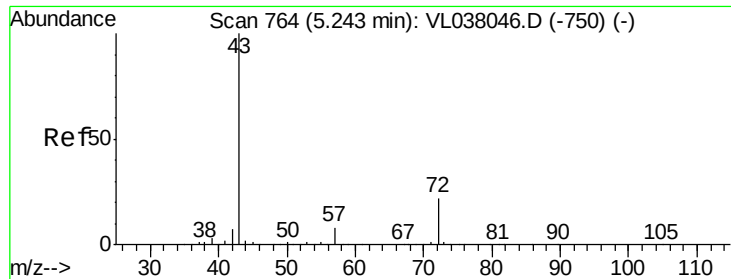
Abundance

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: 0.148 ppbv

RT: 5.24 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

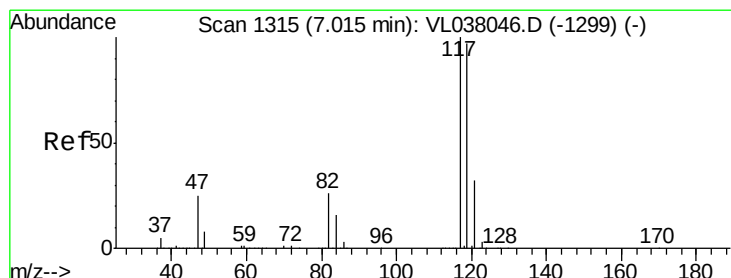
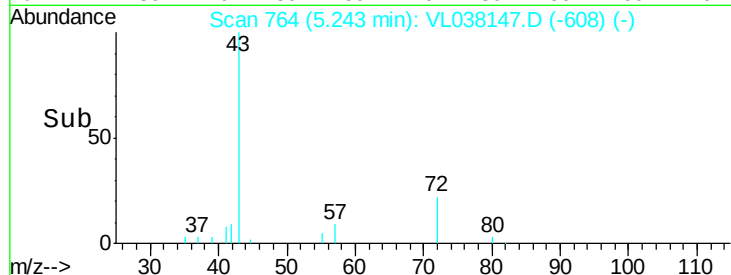
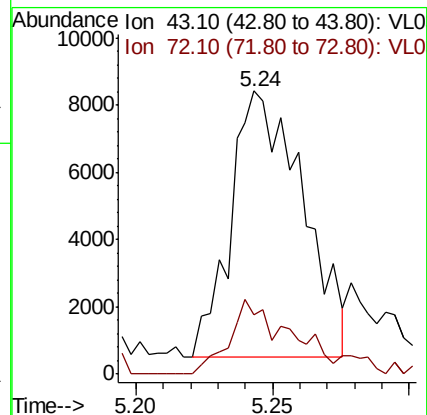
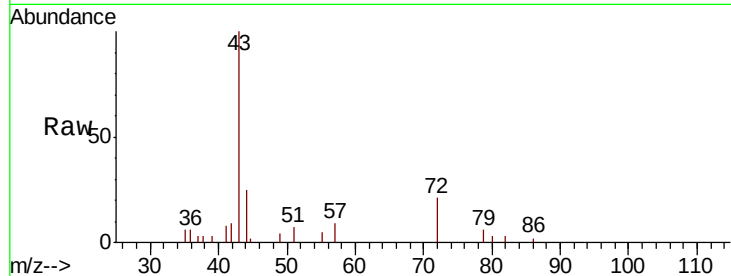
Acq: 7 Dec 2021 12:55

Tot Ion: 43 Resp: 14553

Ion Ratio Lower Upper

43 100

72 27.4 18.8 28.2



#35

Carbon Tetrachloride

Concen: 0.051 ppbv

RT: 7.01 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VL038147.D

Acq: 7 Dec 2021 12:53

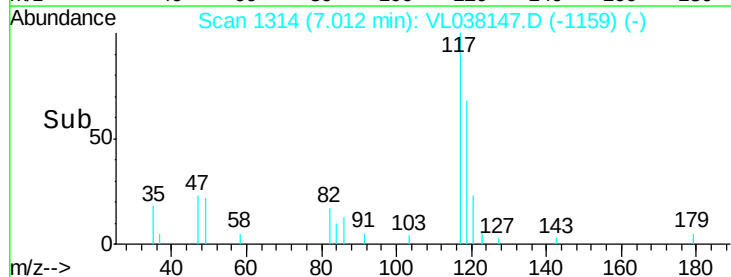
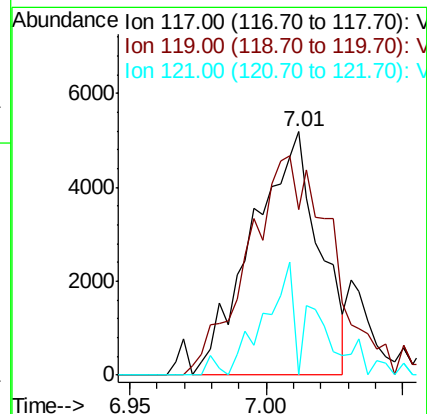
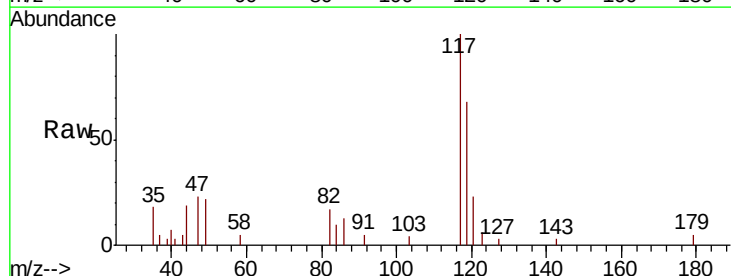
Tgt Ion: 117 Resp: 8794

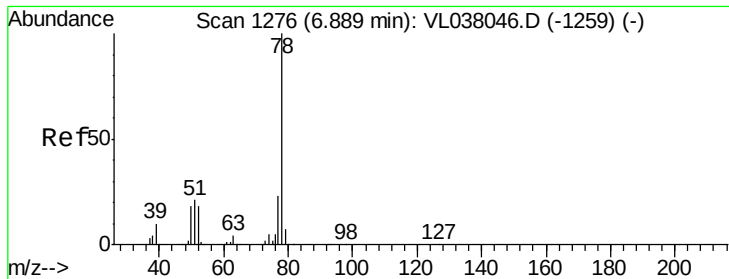
Ion Ratio Lower Upper

117 100

119 64.0 77.7 116.5#

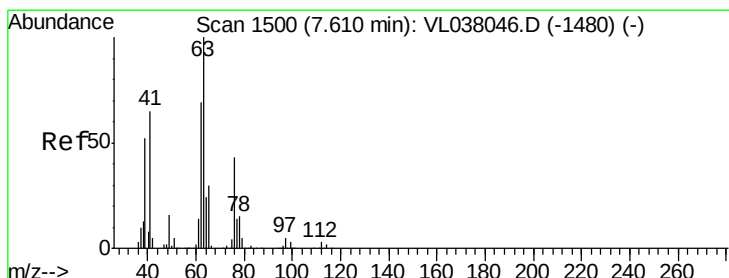
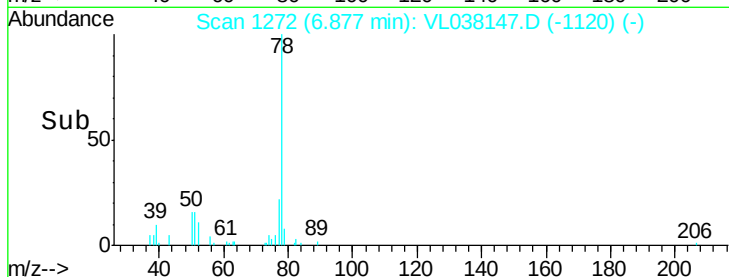
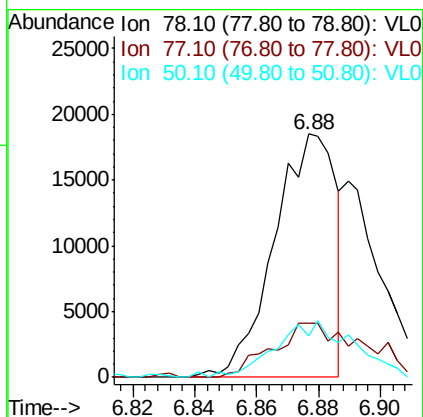
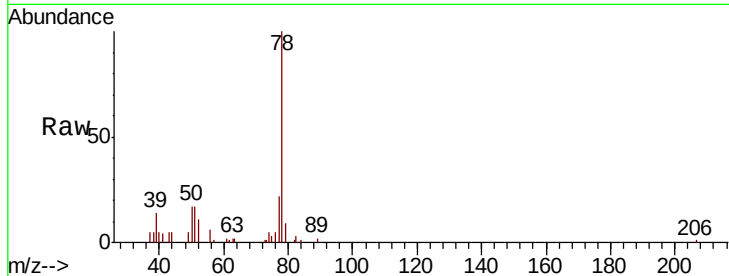
121 0.0 25.6 38.4#





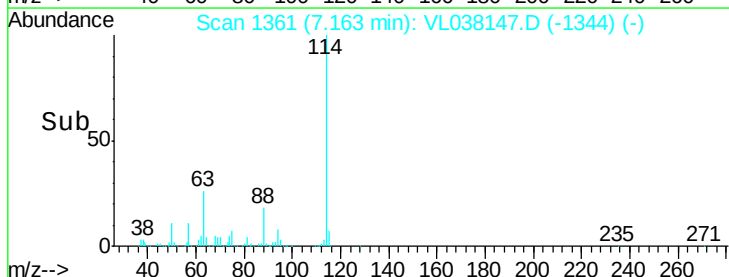
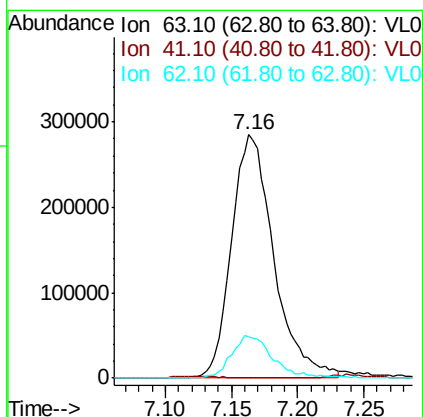
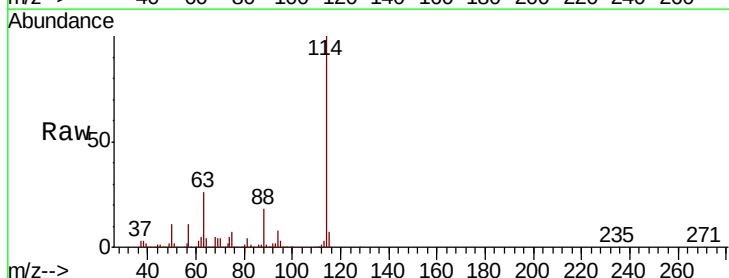
#36
Benzene
Concen: 0.105 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

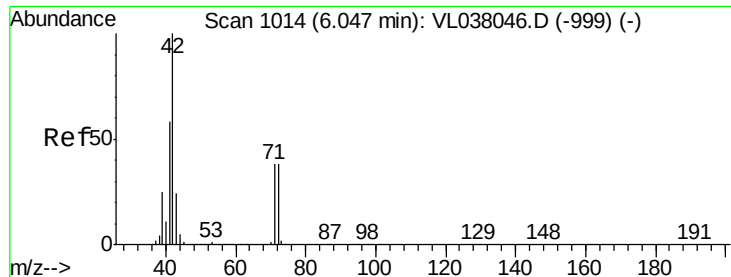
Tot Ion	78	Resp	25529
Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.2	27.4
50	16.9	14.7	22.1



#39
1,2-Dichloropropane
Concen: 6.787 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.45 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

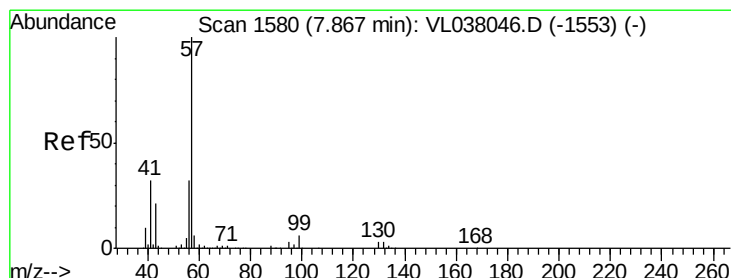
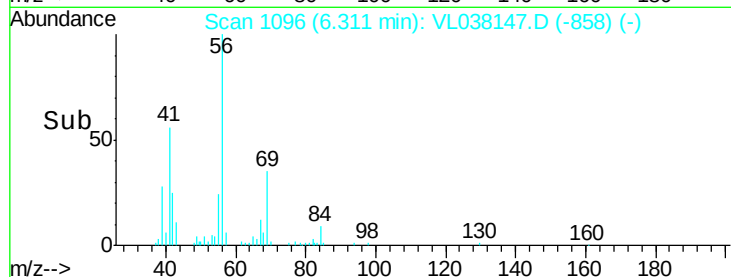
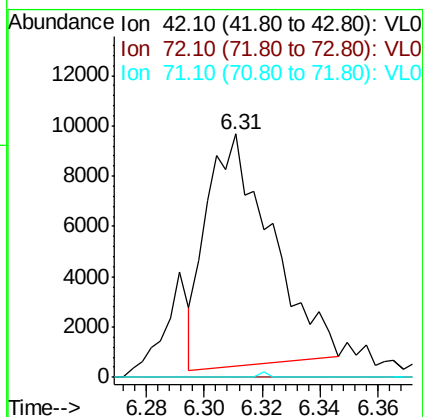
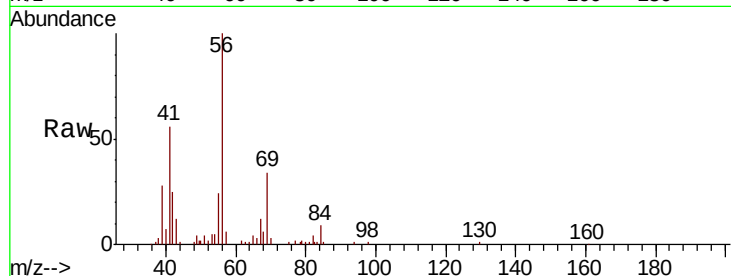
Tgt Ion	63	Resp	631503
Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	17.2	55.1	82.7#





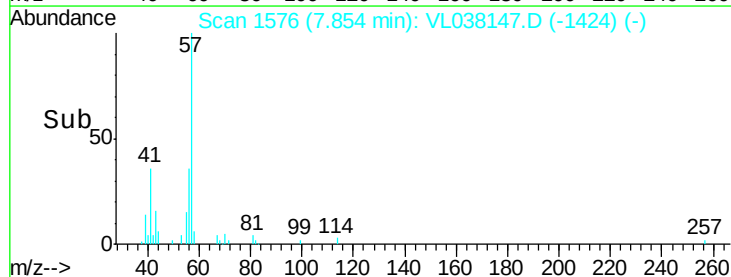
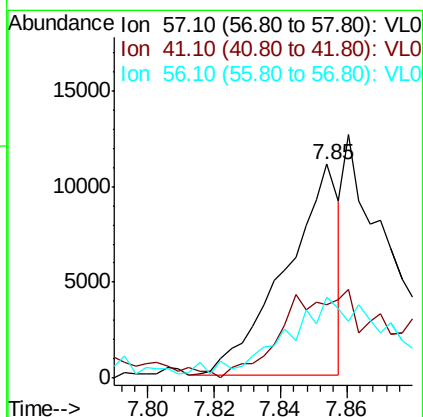
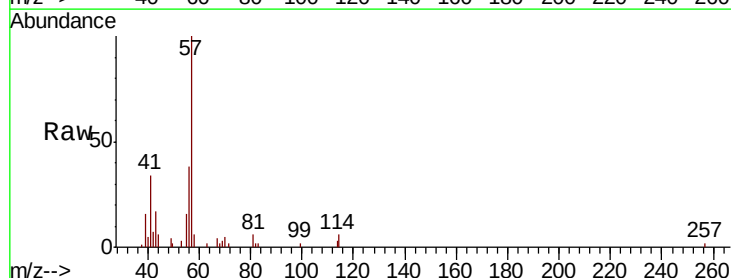
#41
 Tetrahydrofuran
 Concen: 0.235 ppbv
 RT: 6.31
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 7 Dec 2021 12:55

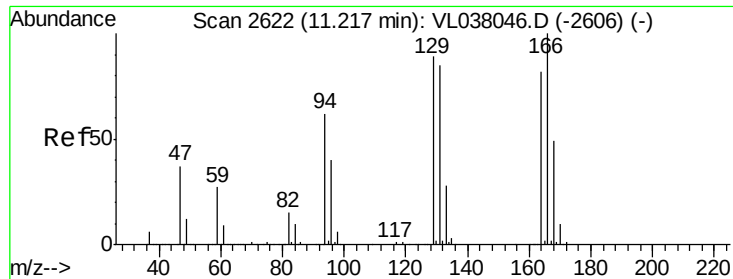
Tot Ion: 42 Resp: 14294
 Ion Ratio Lower Upper
 42 100
 72 0.8 31.7 47.5#
 71 0.0 30.6 46.0#



#44
 2,2,4-Trimethylpentane
 Concen: 0.030 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: VL038147.D
 Acq: 7 Dec 2021 12:53

Tgt Ion: 57 Resp: 12373
 Ion Ratio Lower Upper
 57 100
 41 0.0 25.8 38.6#
 56 93.7 25.6 38.4#





#52

Tetrachloroethene

Concen: 0.207 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 12:55

Tot Ion:164 Resp: 18570

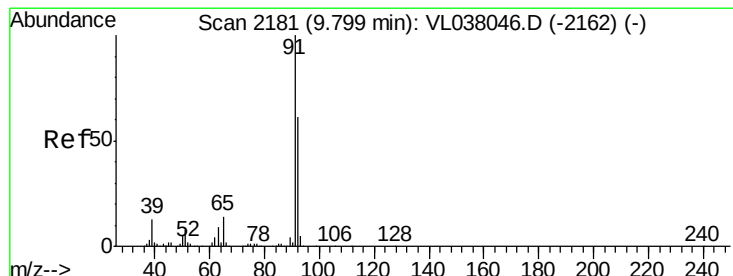
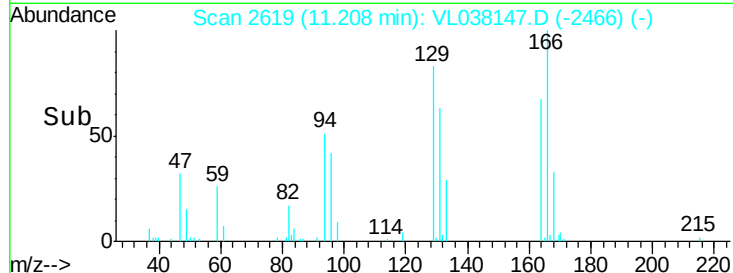
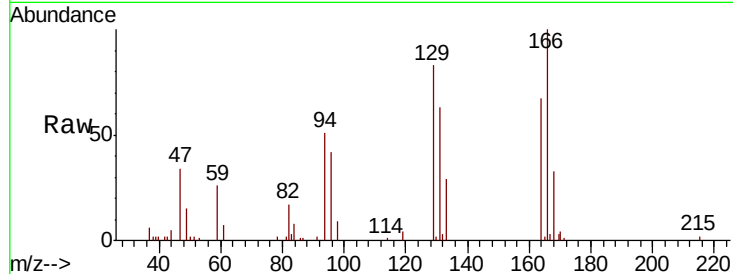
Ion Ratio Lower Upper

164 100

166 146.2 97.2 145.8#

129 122.1 86.9 130.3

131 84.9 82.8 124.2



#53

Toluene

Concen: 0.193 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL038147.D

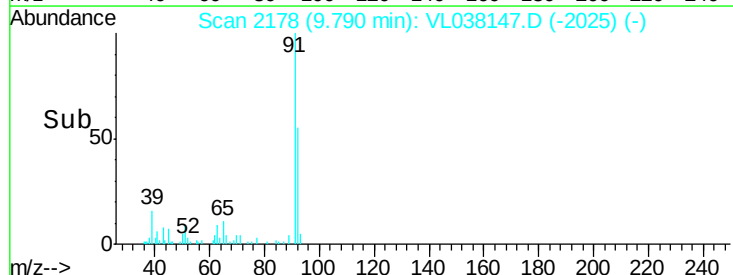
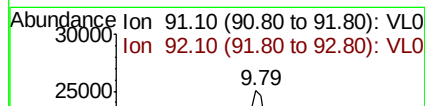
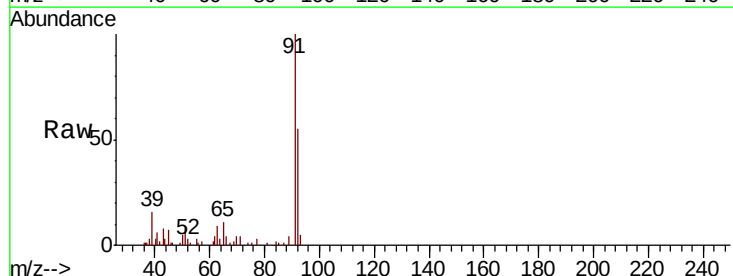
Acq: 7 Dec 2021 12:53

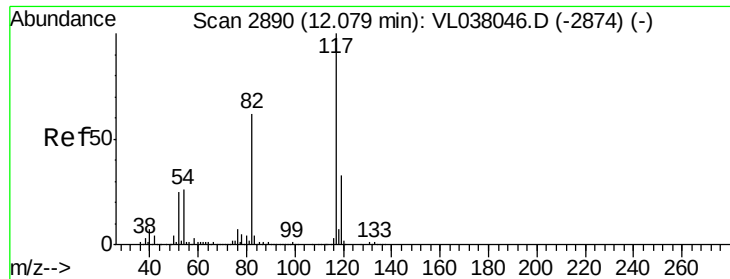
Tgt Ion: 91 Resp: 53744

Ion Ratio Lower Upper

91 100

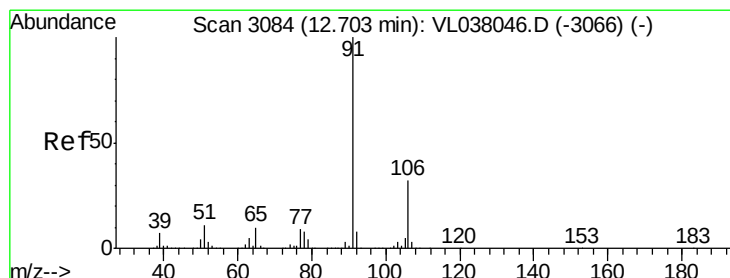
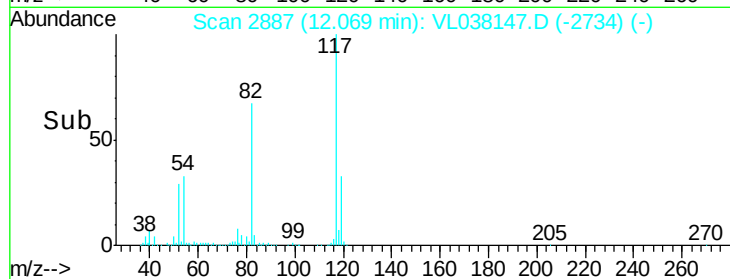
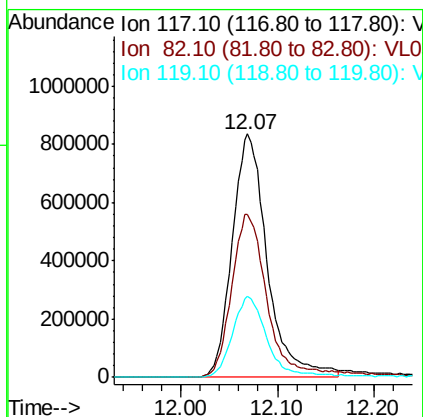
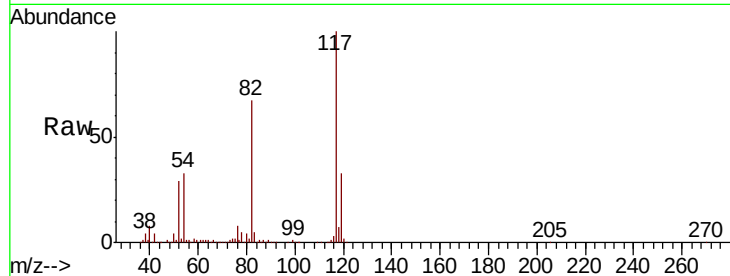
92 61.6 49.7 74.5





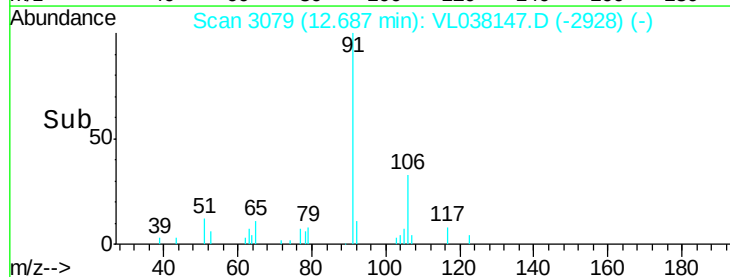
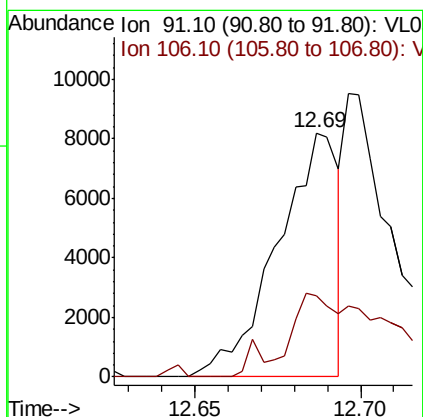
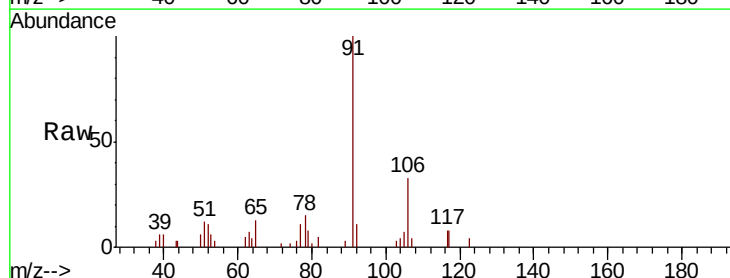
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Dec 2021 12:55

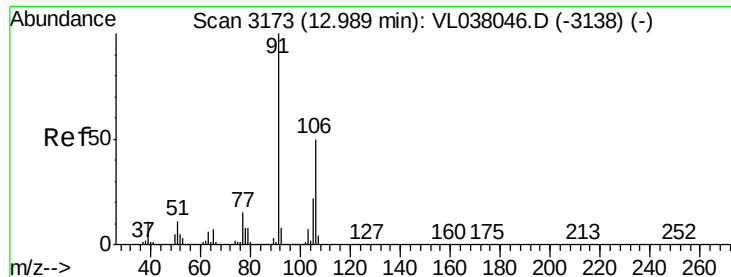
Tot Ion: 117 Resp: 2106946
Ion Ratio Lower Upper
117 100
82 70.2 52.8 79.2
119 33.5 26.8 40.2



#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.02 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

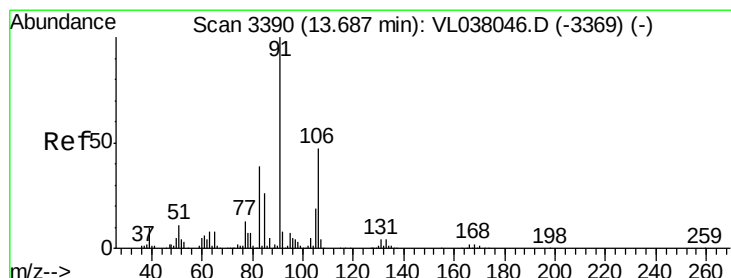
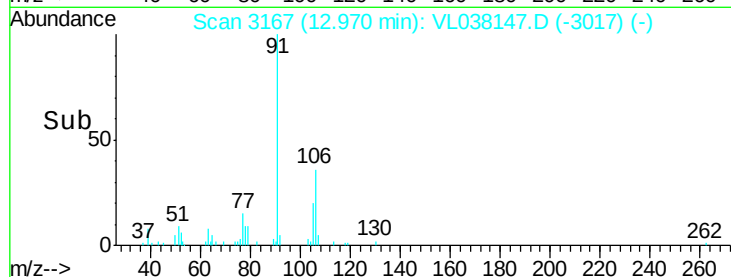
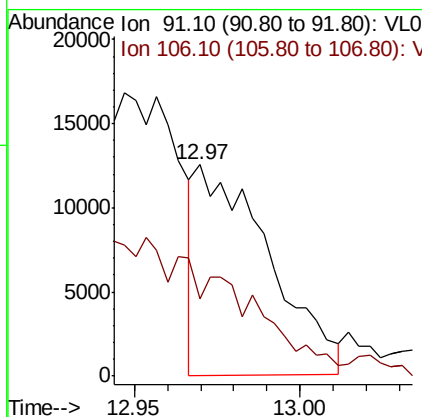
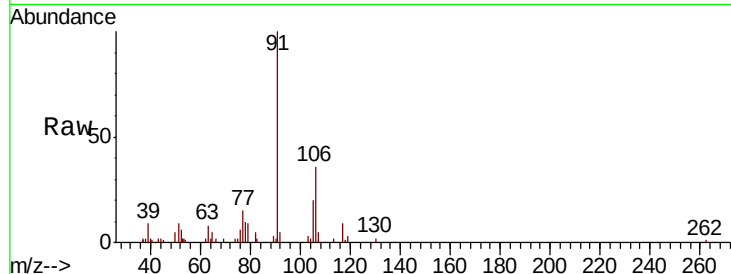
Tgt Ion: 91 Resp: 10485
Ion Ratio Lower Upper
91 100
106 33.4 25.8 38.6





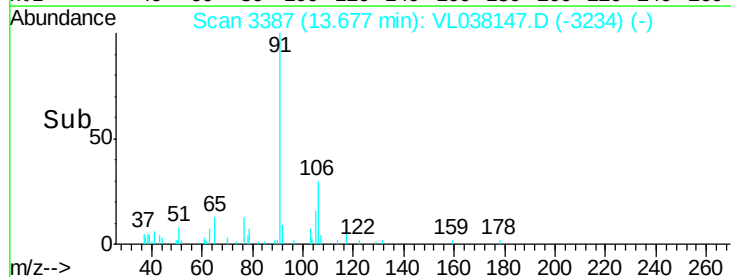
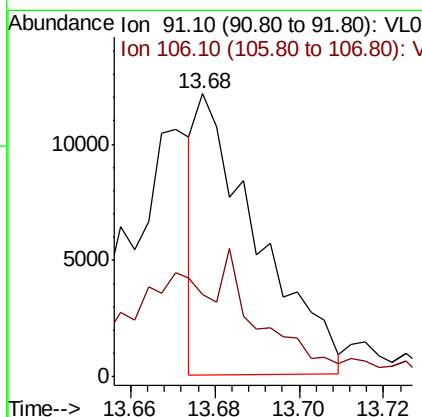
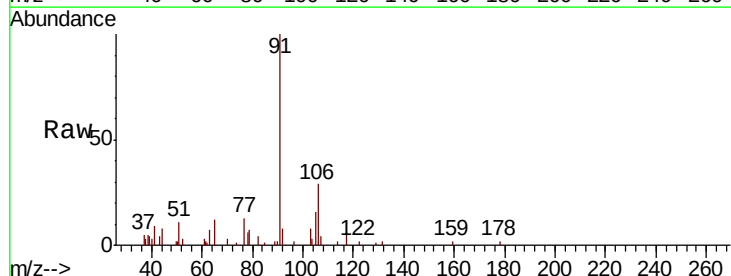
#59
m/p-Xylene
Concen: 0.065 ppbv
RT: 12.97
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Dec 2021 12:55

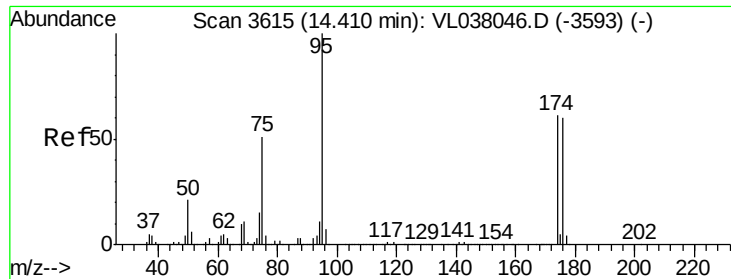
Tot Ion: 91 Resp: 19108
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#



#60
o-Xylene
Concen: 0.044 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.01 min
Lab File: VL038147.D
Acq: 7 Dec 2021 12:53

Tgt Ion: 91 Resp: 11978
Ion Ratio Lower Upper
91 100
106 90.9 24.2 72.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.962 ppbv

RT: 14.40

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 7 Dec 2021 12:55

Tot Ion: 95 Resp: 1665977

Ion Ratio Lower Upper

95 100

174 61.0 53.1 79.7

175 4.3 4.0 6.0

