

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\
 Data File : VL038111.D
 Acq On : 23 Nov 2021 22:34
 Operator : SY/AP
 Sample : M4805-12DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-CURVY-BRIDEDL

Quant Time: Nov 26 04:17:04 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	888833	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2525752	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2135315	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1743147	11.32	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.20%	

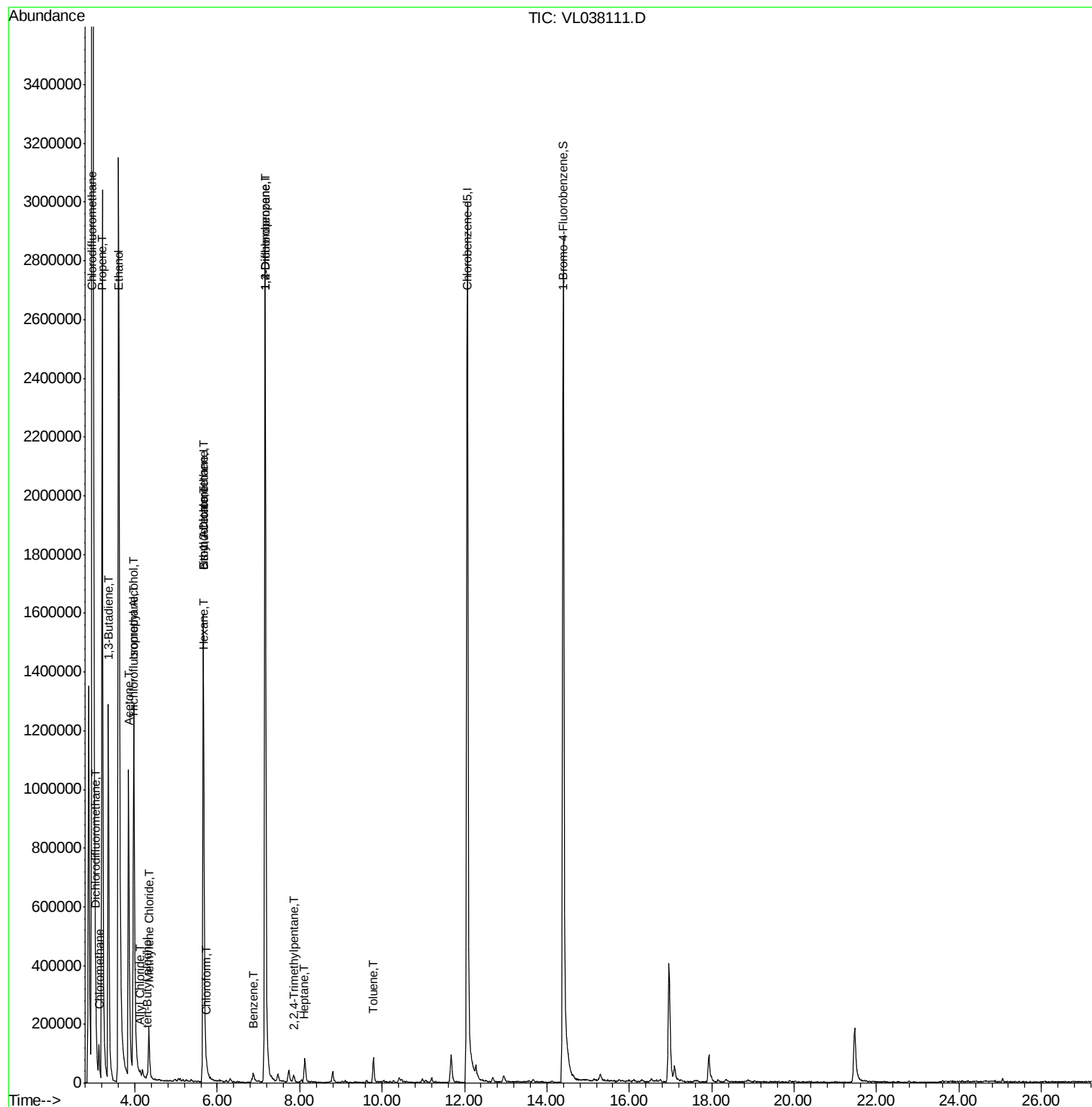
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	8205	0.056	ppbv #	76
3) Chlorodifluoromethane	2.96	51	9325152	49.958	ppbv #	60
4) Chloromethane	3.14	50	3872	0.061	ppbv #	81
9) Propene	3.20	41	1187660	17.277	ppbv	96
10) Heptane	8.10	43	7293	0.043	ppbv #	1
11) Trichlorofluoromethane	3.95	101	13470	0.096	ppbv	94
13) Ethanol	3.60	45	4839929	728.555	ppbv	90
15) Acetone	3.84	43	1375960	17.855	ppbv	97
16) 1,3-Butadiene	3.36	39	186235	3.098	ppbv #	11
17) tert-Butyl alcohol	4.29	59	5813	0.062	ppbv #	71
19) Isopropyl Alcohol	3.97	45	1888317	33.913	ppbv	100
20) Methylene Chloride	4.34	84	69784	1.617	ppbv	95
21) Allyl Chloride	4.13	41	4222	0.059	ppbv #	36
25) Ethyl Acetate	5.66	43	164933	0.644	ppbv #	93
26) Hexane	5.68	57	41926	0.340	ppbv #	11
29) Chloroform	5.74	83	6441	0.035	ppbv	97
31) cis-1,2-Dichloroethene	5.65	61	4540	0.039	ppbv #	27
36) Benzene	6.87	78	8885	0.035	ppbv #	95
39) 1,2-Dichloropropane	7.16	63	636835	6.589	ppbv #	28
44) 2,2,4-Trimethylpentane	7.85	57	16529	0.039	ppbv #	51
53) Toluene	9.79	91	66624	0.230	ppbv	100

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-CURVY-BRIDEDL

Acq: 23 Nov 2021 22:34

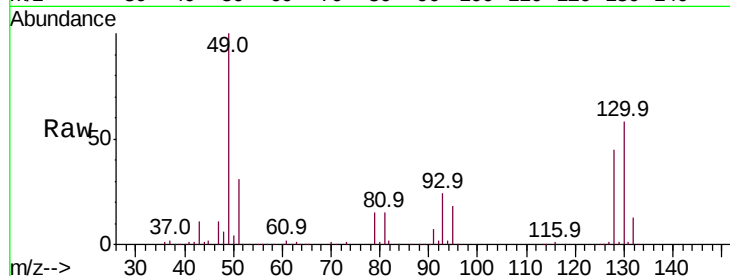
Tot Ion: 49 Resp: 888833

Ion Ratio Lower Upper

49 100

128 47.5 26.5 79.5

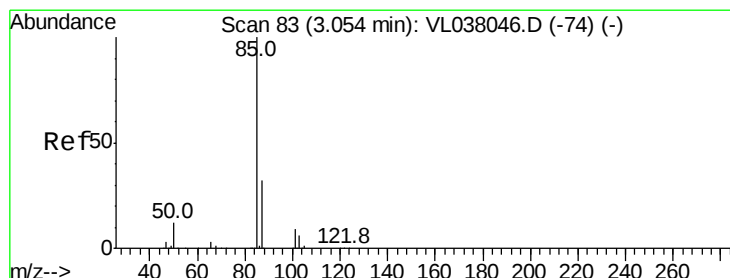
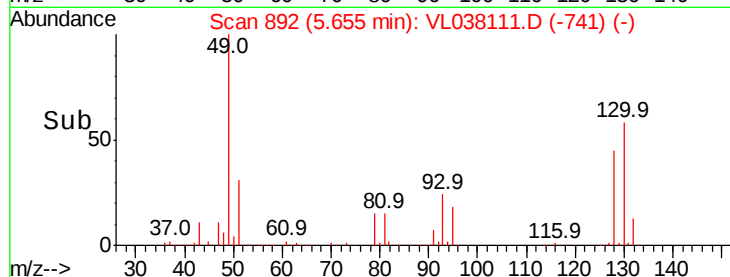
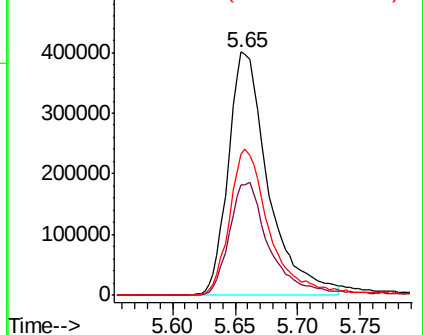
130 61.7 32.5 97.4



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



#2

Dichlorodifluoromethane

Concen: 0.056 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038111.D

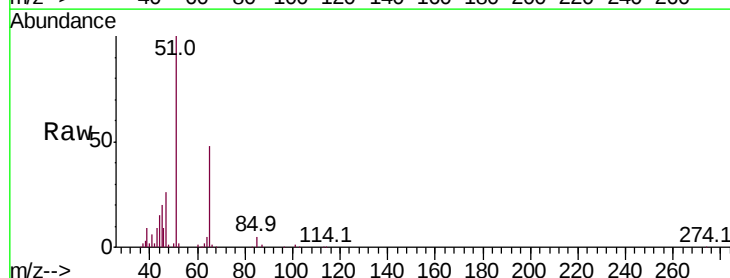
Acq: 23 Nov 2021 22:34

Tgt Ion: 85 Resp: 8205

Ion Ratio Lower Upper

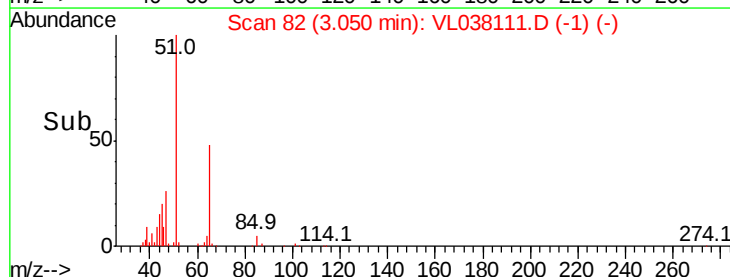
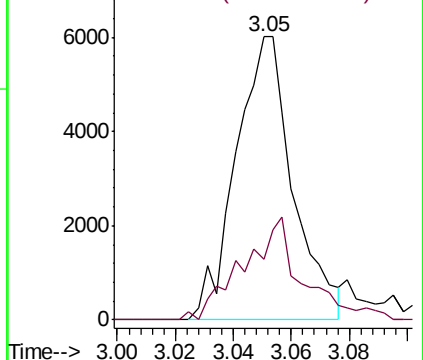
85 100

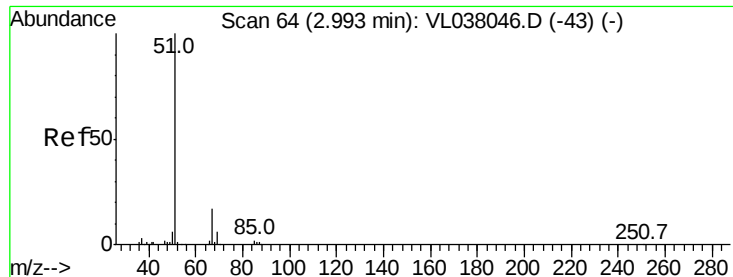
87 18.9 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 49.958 ppbv

RT: 2.96 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-CURVY-BRIDEDL

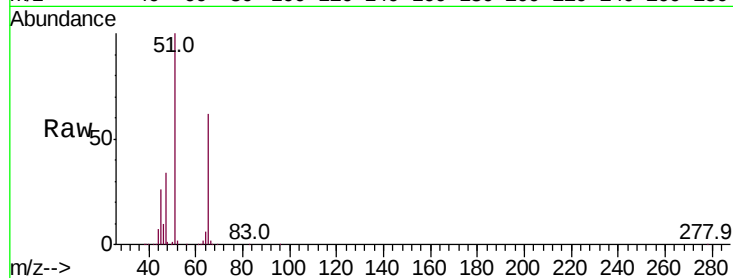
Acq: 23 Nov 2021 22:34

Tot Ion: 51 Resp: 9325152

Ion Ratio Lower Upper

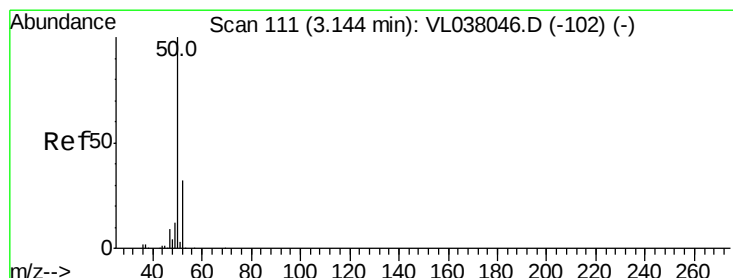
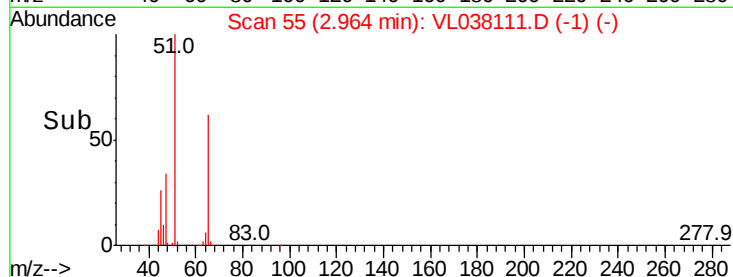
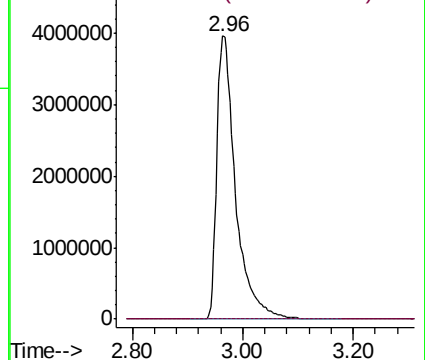
51 100

67 0.0 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: 0.061 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL038111.D

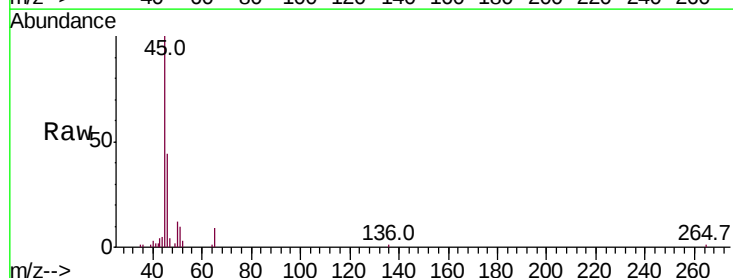
Acq: 23 Nov 2021 22:34

Tgt Ion: 50 Resp: 3872

Ion Ratio Lower Upper

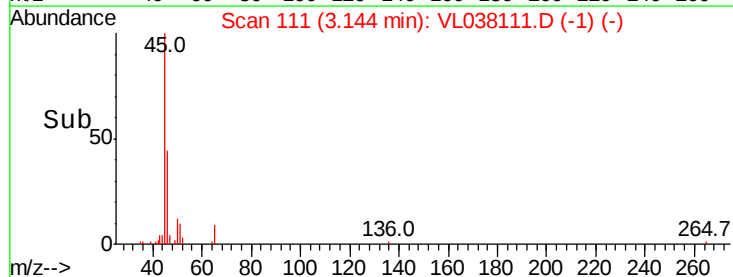
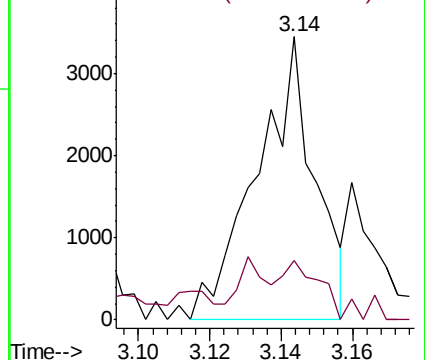
50 100

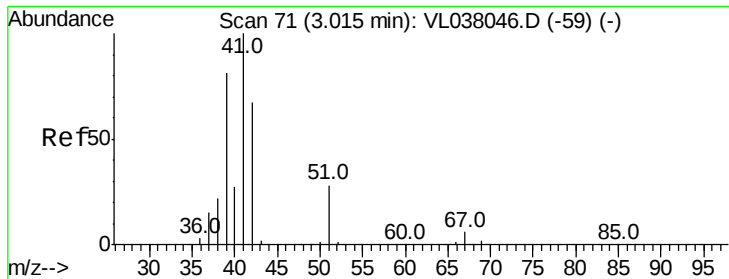
52 21.0 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 17.277 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

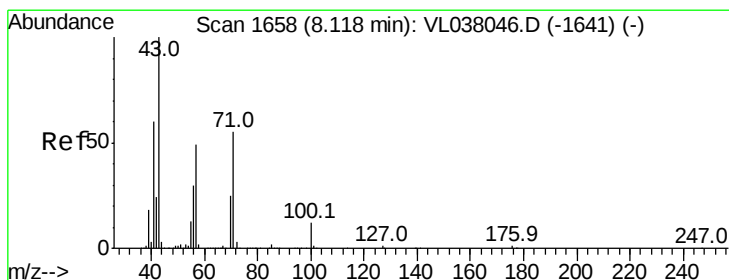
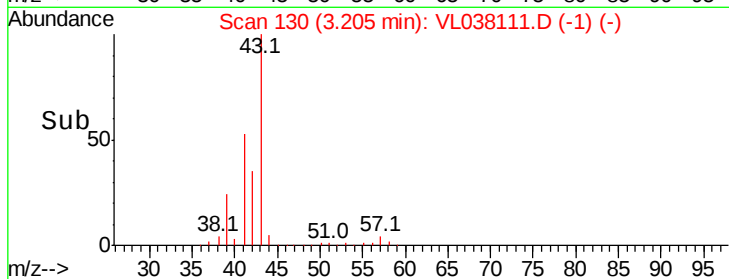
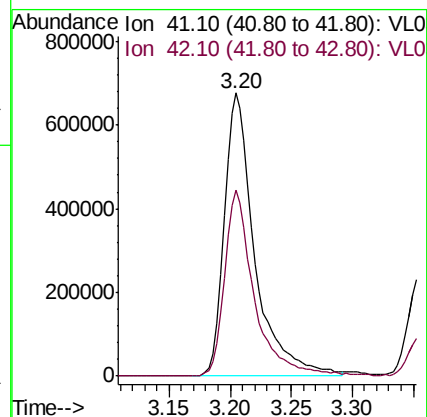
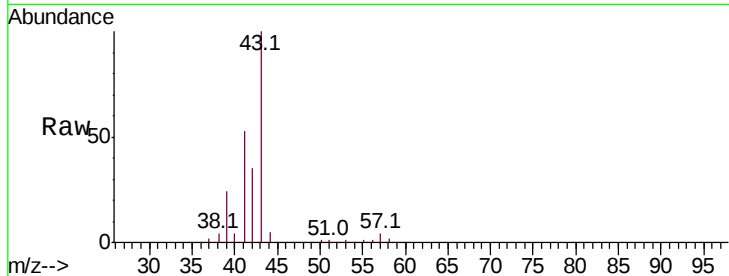
Acq: 23 Nov 2021 22:34

Tot Ion: 41 Resp: 1187660

Ion Ratio Lower Upper

41 100

42 64.3 53.8 80.8



#10

Heptane

Concen: 0.043 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL038111.D

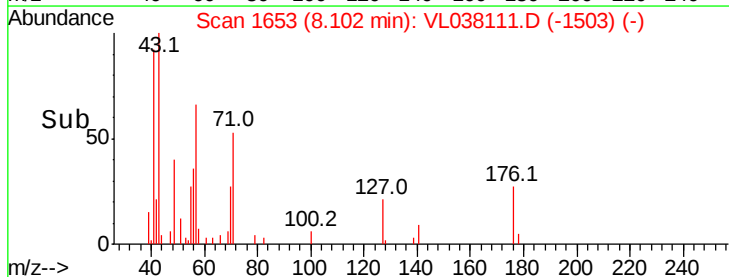
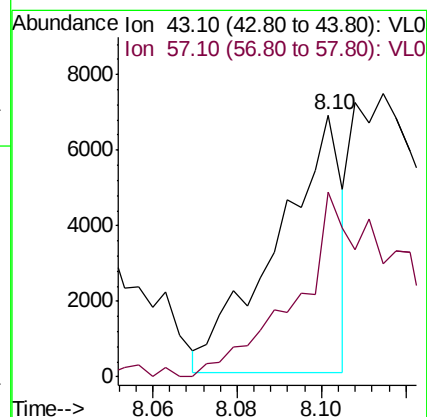
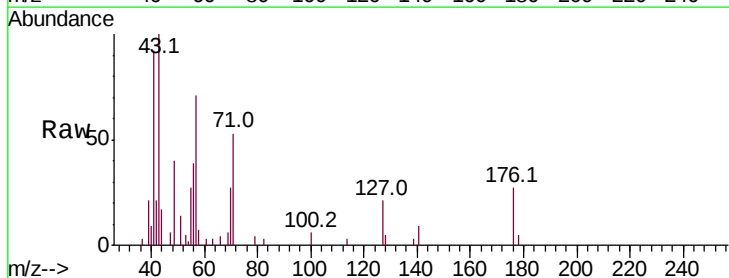
Acq: 23 Nov 2021 22:34

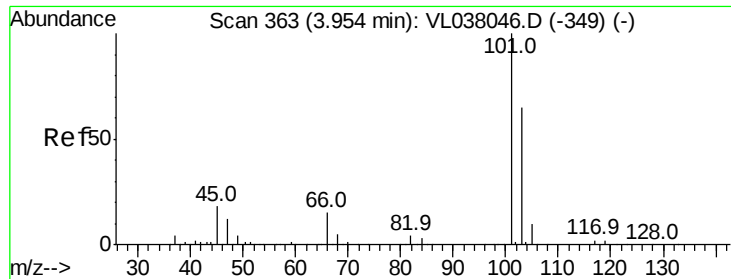
Tgt Ion: 43 Resp: 7293

Ion Ratio Lower Upper

43 100

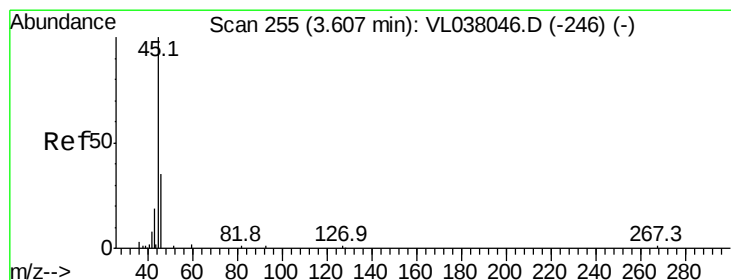
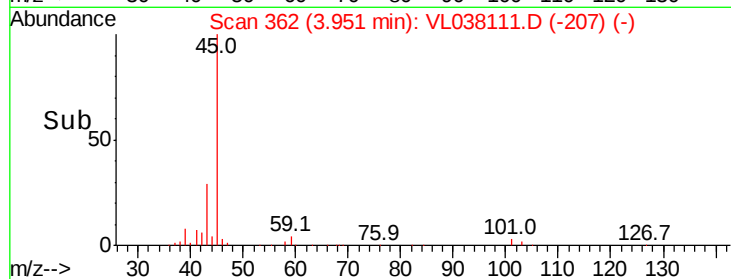
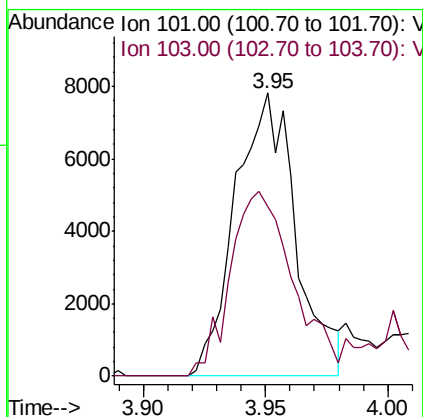
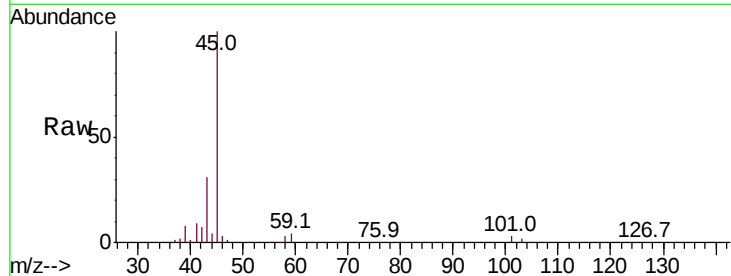
57 127.8 40.4 60.6#





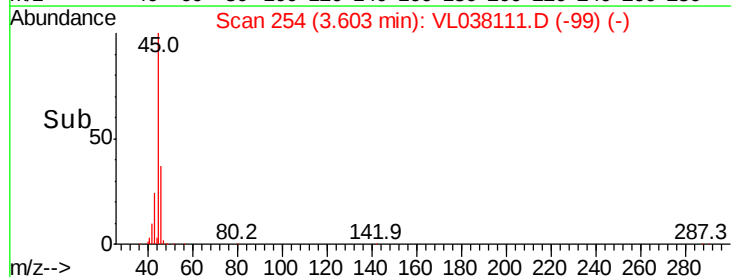
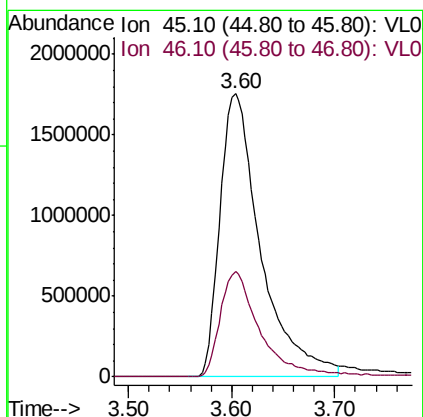
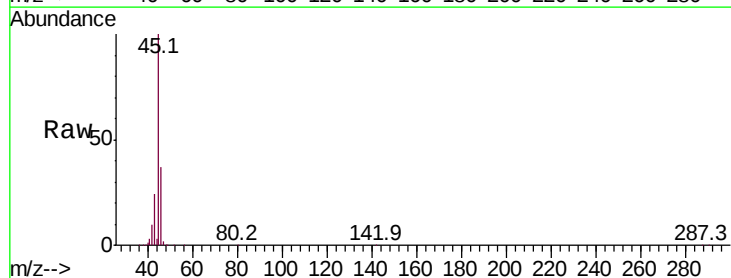
#11
 Trichlorofluoromethane
 Concen: 0.096 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Nov 2021 22:34

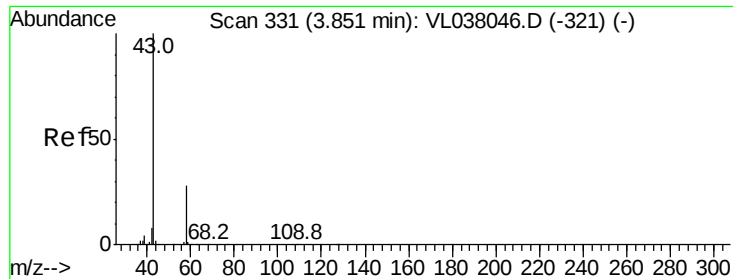
Tot Ion:101 Resp: 13470
 Ion Ratio Lower Upper
 101 100
 103 59.9 51.8 77.6



#13
 Ethanol
 Concen: 728.555 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T.: -0.00 min
 Lab File: VL038111.D
 Acq: 23 Nov 2021 22:34

Tgt Ion: 45 Resp: 4839929
 Ion Ratio Lower Upper
 45 100
 46 37.3 17.6 70.2





#15

Acetone

Concen: 17.855 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

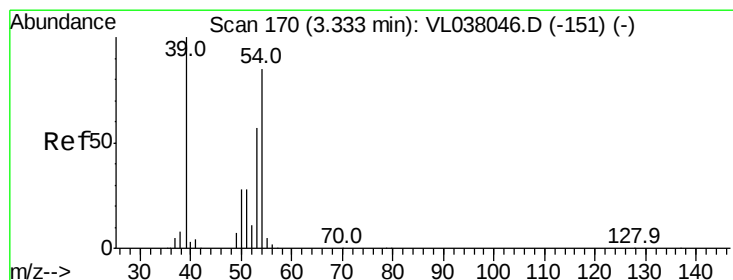
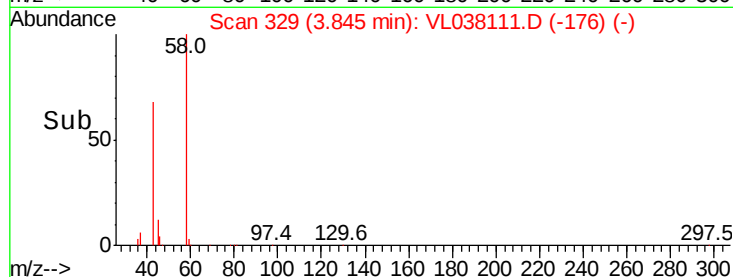
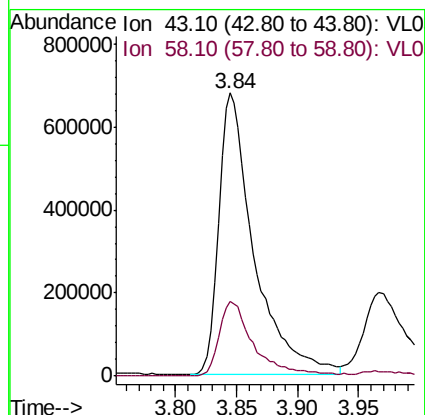
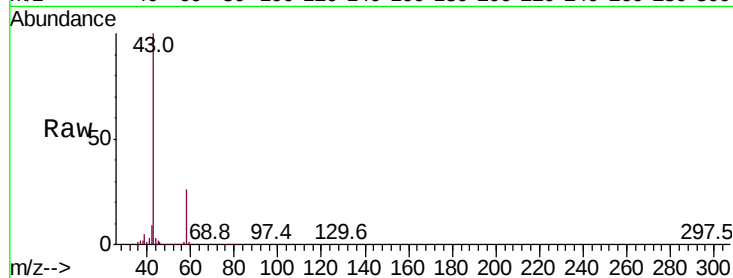
Acq: 23 Nov 2021 22:34

Tot Ion: 43 Resp: 1375960

Ion Ratio Lower Upper

43 100

58 26.5 22.4 33.6



#16

1,3-Butadiene

Concen: 3.098 ppbv

RT: 3.36 min Scan# 177

Delta R.T. 0.02 min

Lab File: VL038111.D

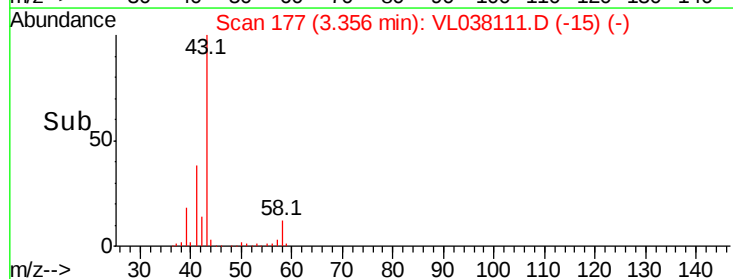
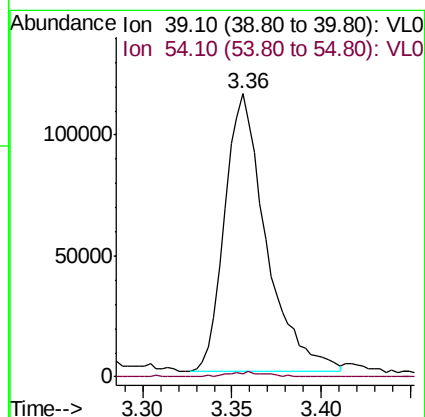
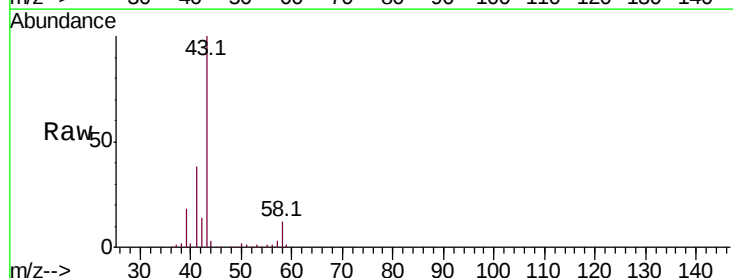
Acq: 23 Nov 2021 22:34

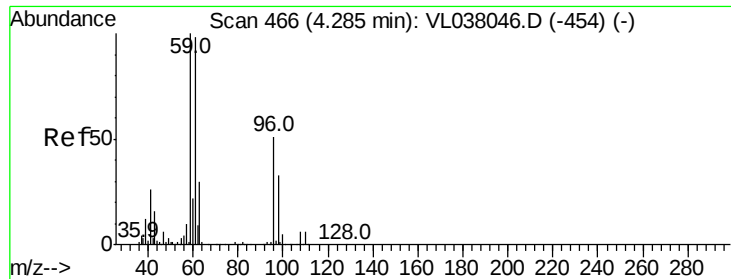
Tgt Ion: 39 Resp: 186235

Ion Ratio Lower Upper

39 100

54 1.8 64.4 96.6#





#17

tert-Butyl alcohol

Concen: 0.062 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

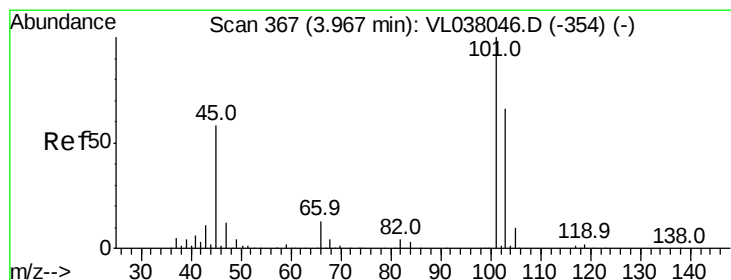
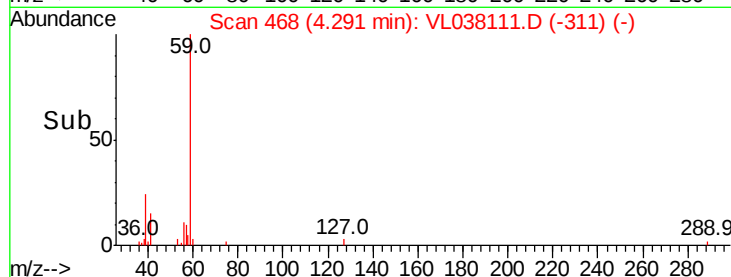
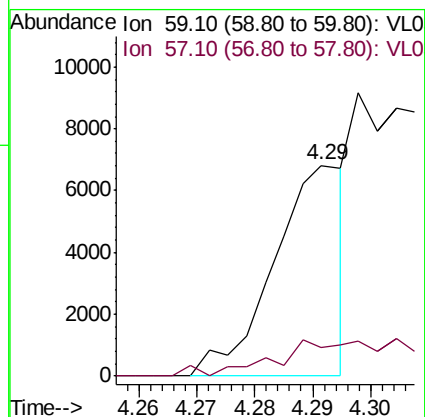
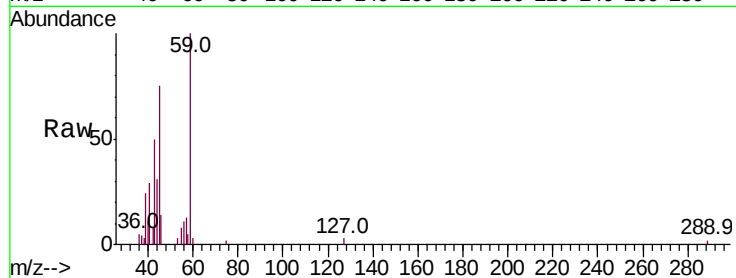
Acq: 23 Nov 2021 22:34

Tot Ion: 59 Resp: 5813

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 33.913 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL038111.D

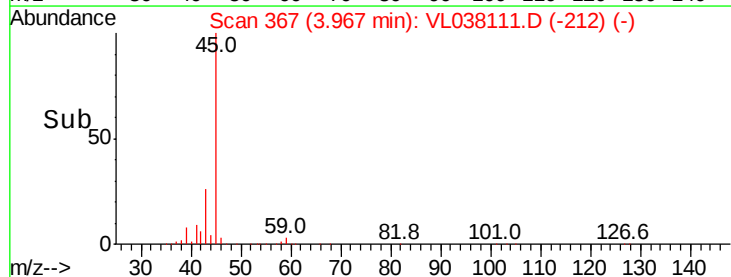
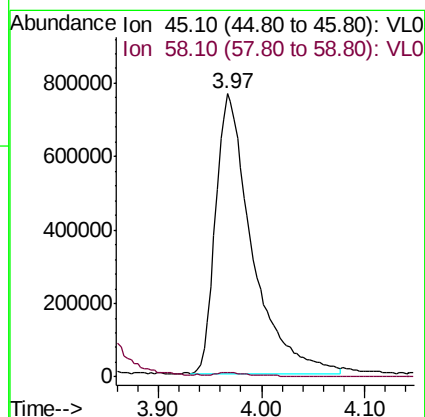
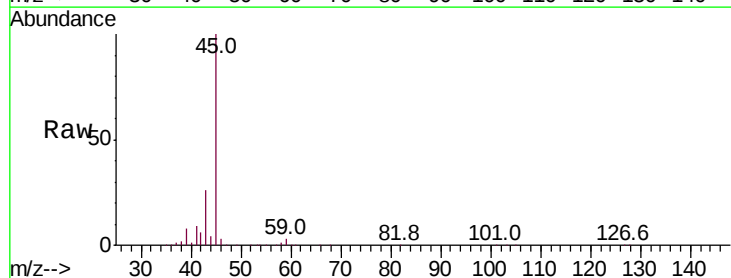
Acq: 23 Nov 2021 22:34

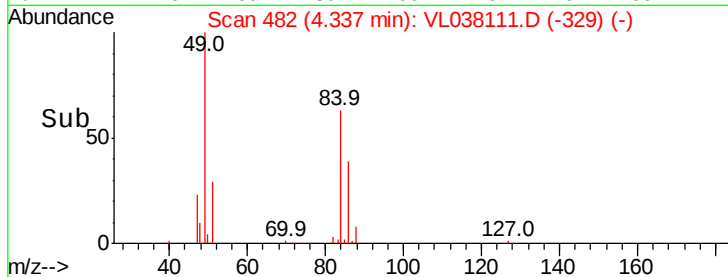
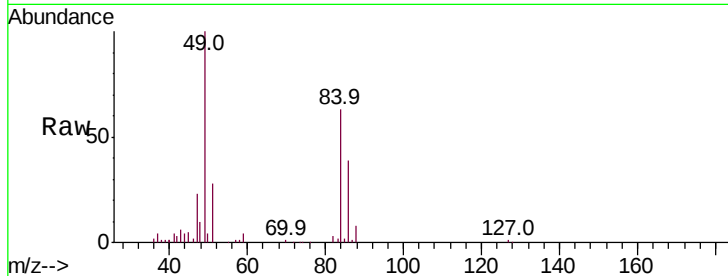
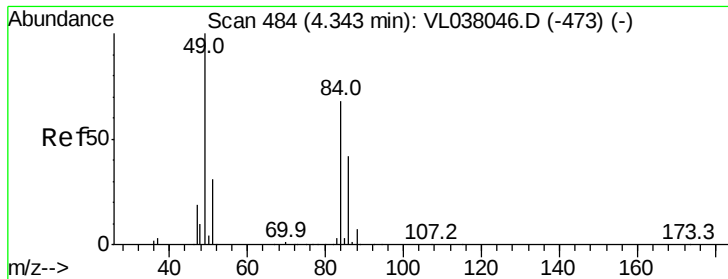
Tgt Ion: 45 Resp: 1888317

Ion Ratio Lower Upper

45 100

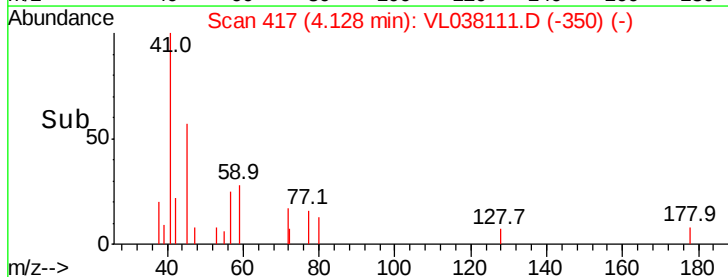
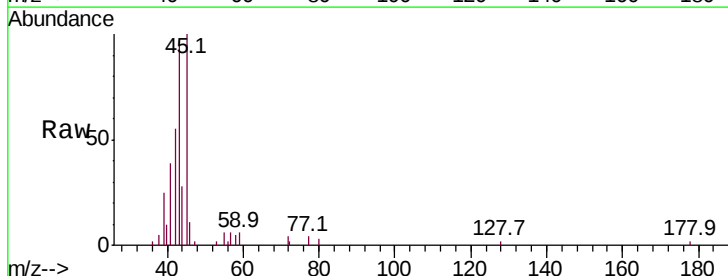
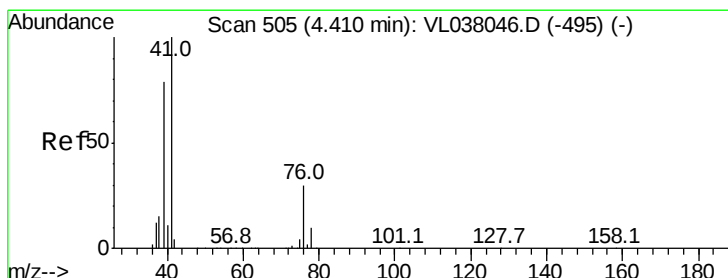
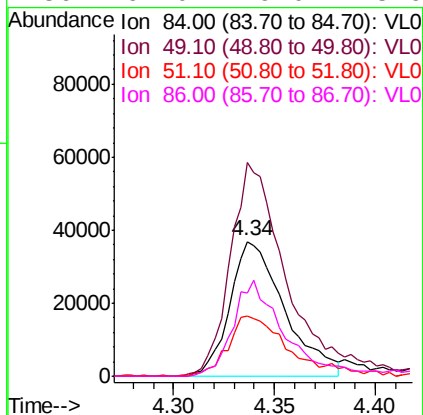
58 1.7 1.4 2.0





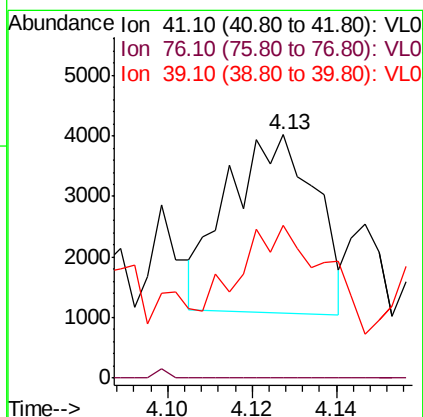
#20
Methylene Chloride
Concen: 1.617 ppbv
RT: 4.34
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 22:34

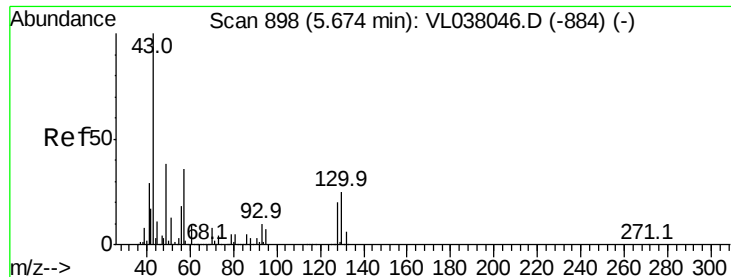
Tot Ion: 84 Resp: 69784
Ion Ratio Lower Upper
84 100
49 157.1 118.2 177.2
51 44.3 36.8 55.2
86 62.0 49.0 73.6



#21
Allyl Chloride
Concen: 0.059 ppbv
RT: 4.13 min Scan# 417
Delta R.T. -0.28 min
Lab File: VL038111.D
Acq: 23 Nov 2021 22:34

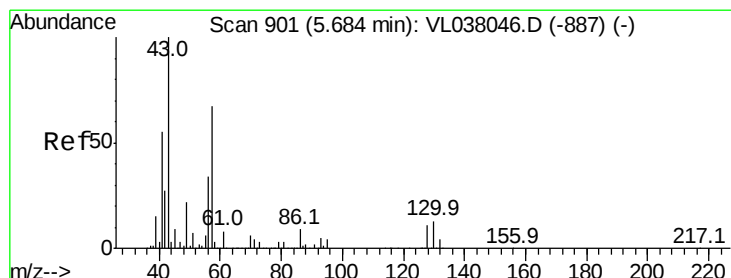
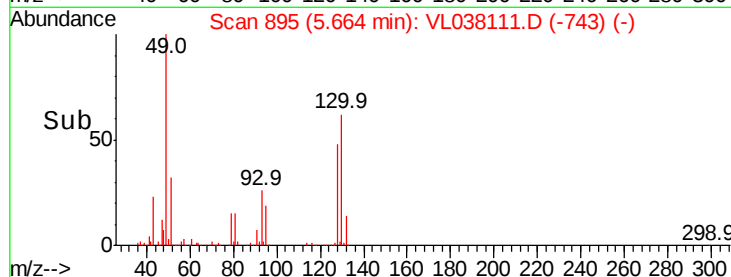
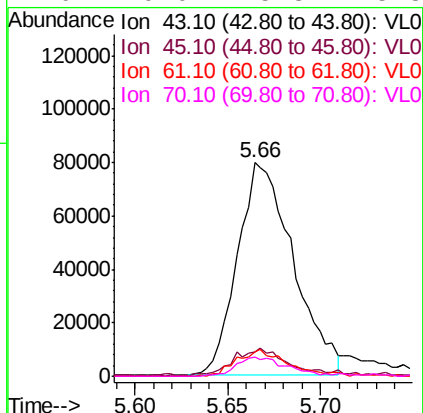
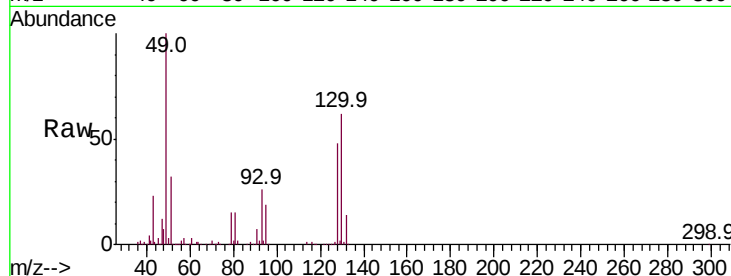
Tgt Ion: 41 Resp: 4222
Ion Ratio Lower Upper
41 100
76 0.7 24.6 36.8#
39 139.0 63.4 95.0#





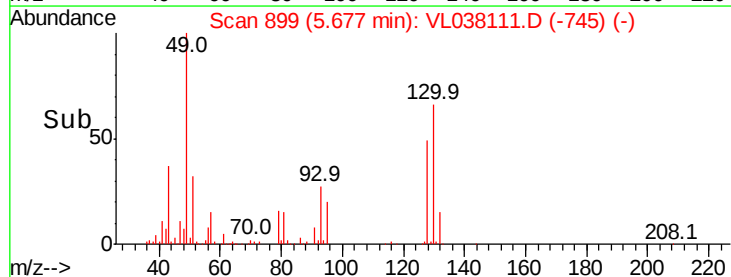
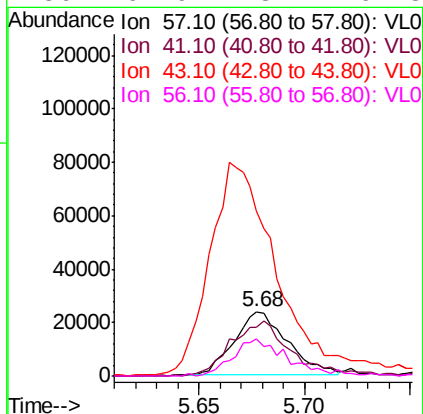
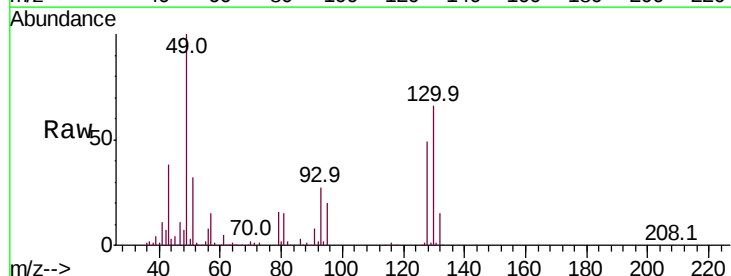
#25
Ethyl Acetate
Concen: 0.644 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Nov 2021 22:34

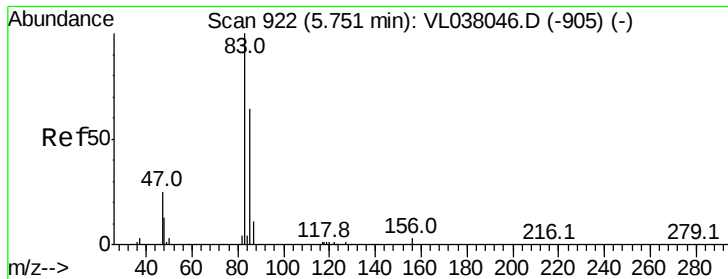
Tot Ion:	43	Resp:	164933
Ion	Ratio	Lower	Upper
43	100		
45	13.7	7.9	11.9#
61	11.9	7.8	11.6#
70	9.0	5.8	8.8#



#26
Hexane
Concen: 0.340 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL038111.D
Acq: 23 Nov 2021 22:34

Tgt Ion:	57	Resp:	41926
Ion	Ratio	Lower	Upper
57	100		
41	103.6	71.4	107.2
43	440.6	174.6	261.8#
56	61.9	43.2	64.8





#29

Chloroform

Concen: 0.035 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

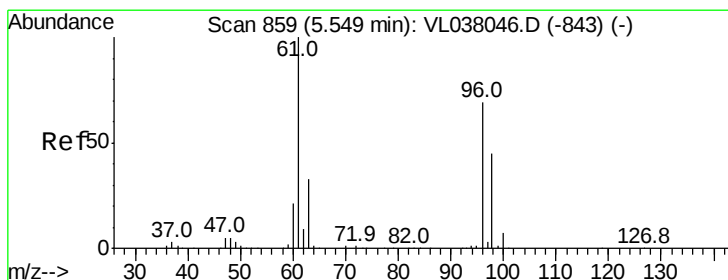
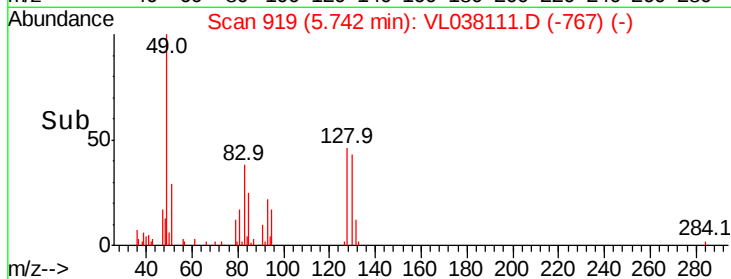
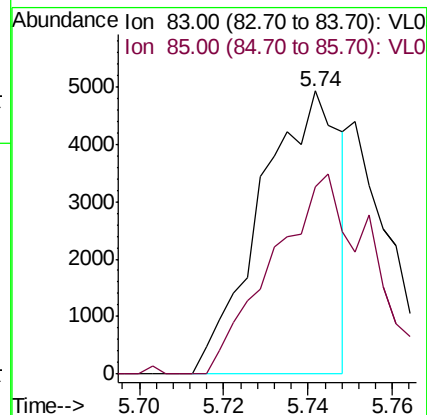
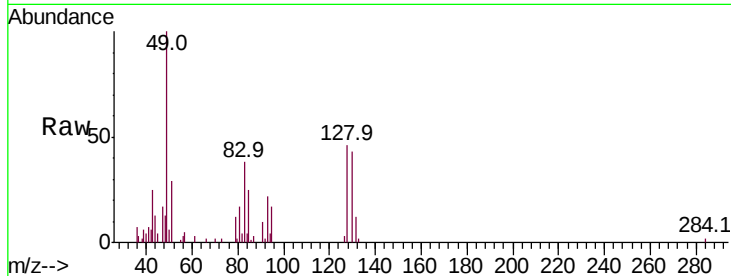
Acq: 23 Nov 2021 22:34

Tot Ion: 83 Resp: 6441

Ion Ratio Lower Upper

83 100

85 66.0 51.0 76.6



#31

cis-1,2-Dichloroethene

Concen: 0.039 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.11 min

Lab File: VL038111.D

Acq: 23 Nov 2021 22:34

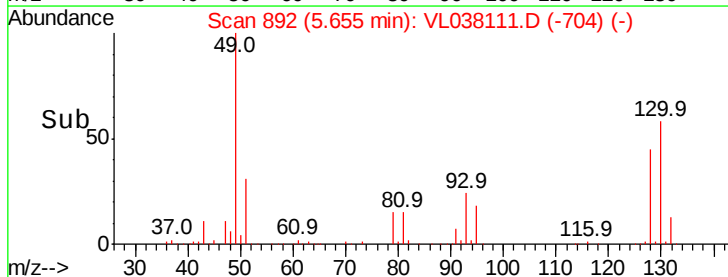
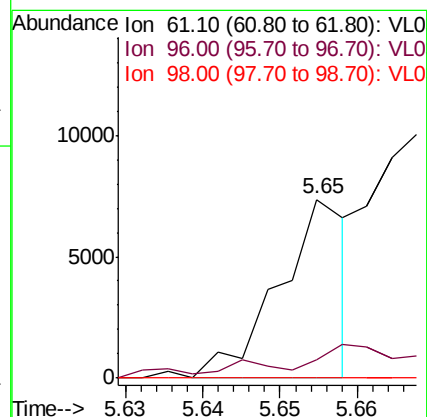
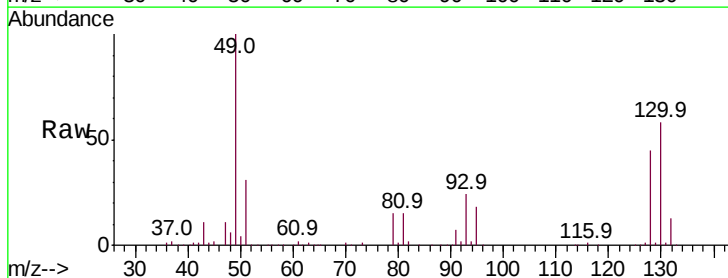
Tgt Ion: 61 Resp: 4540

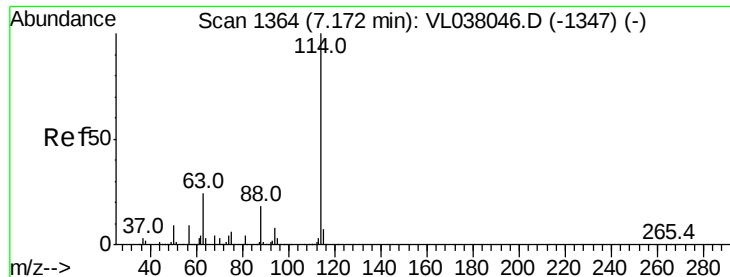
Ion Ratio Lower Upper

61 100

96 7.2 55.4 83.2#

98 0.0 35.7 53.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 23 Nov 2021 22:34

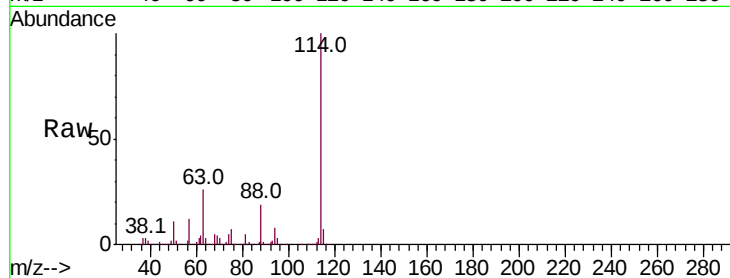
Tot Ion:114 Resp: 2525752

Ion Ratio Lower Upper

114 100

63 26.1 19.7 29.5

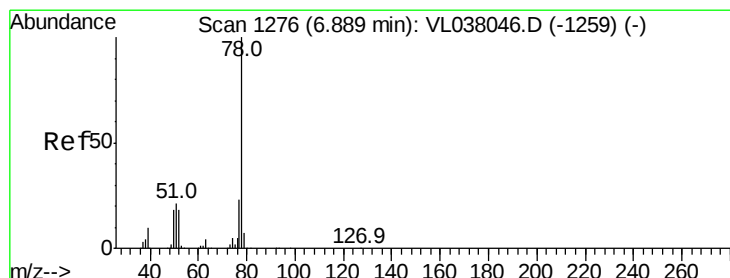
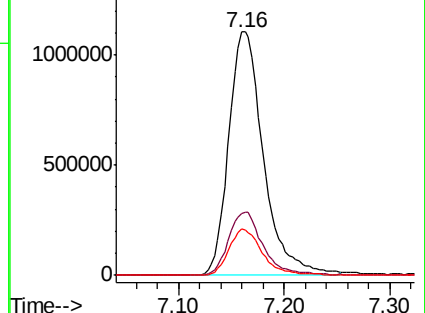
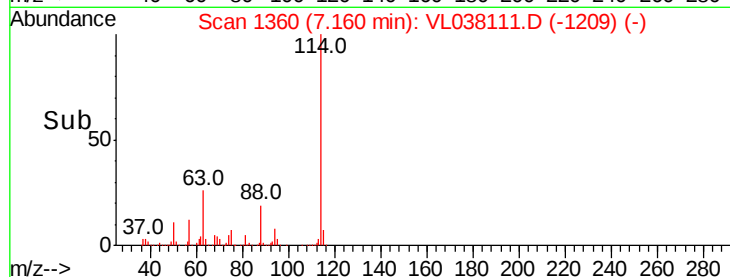
88 18.7 14.4 21.6



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



#36

Benzene

Concen: 0.035 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VL038111.D

Acq: 23 Nov 2021 22:34

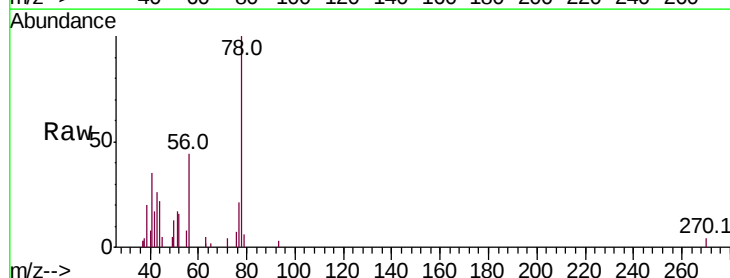
Tgt Ion: 78 Resp: 8885

Ion Ratio Lower Upper

78 100

77 22.4 18.2 27.4

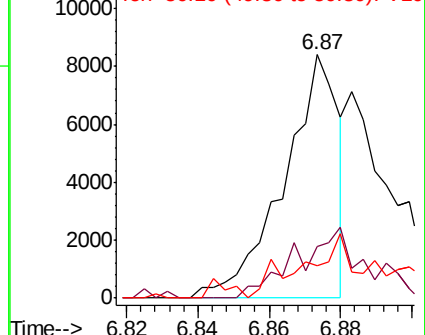
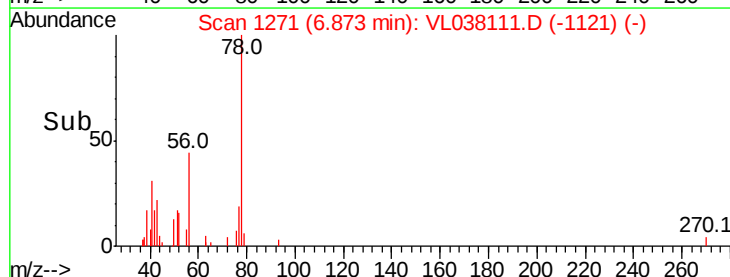
50 13.9 14.7 22.1#

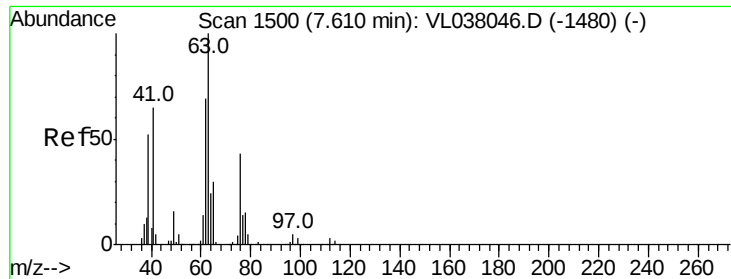


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 6.589 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 22:34

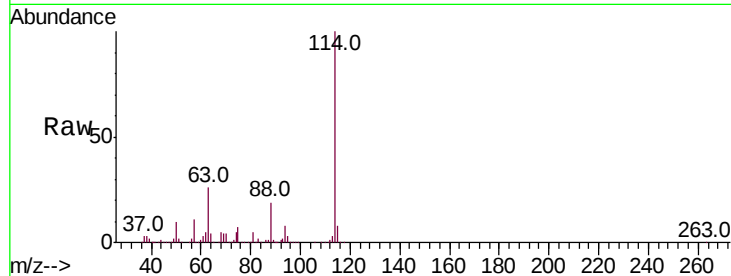
Tot Ion: 63 Resp: 636835

Ion Ratio Lower Upper

63 100

41 0.0 52.3 78.5#

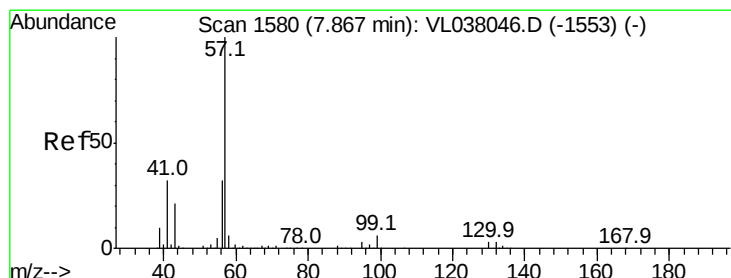
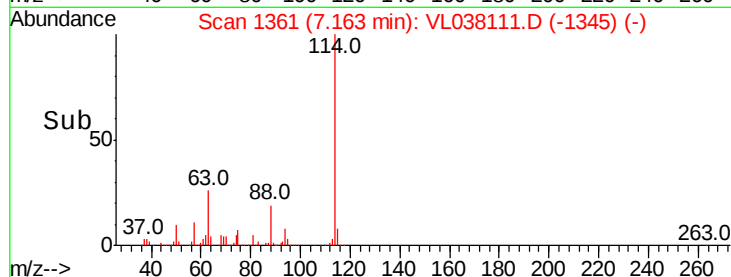
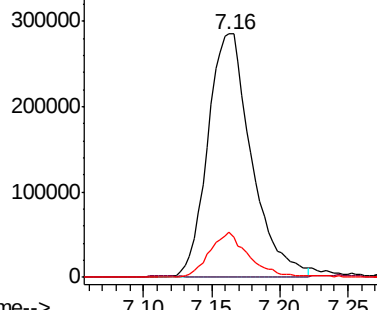
62 18.7 55.1 82.7#



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



#44

2,2,4-Trimethylpentane

Concen: 0.039 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. -0.02 min

Lab File: VL038111.D

Acq: 23 Nov 2021 22:34

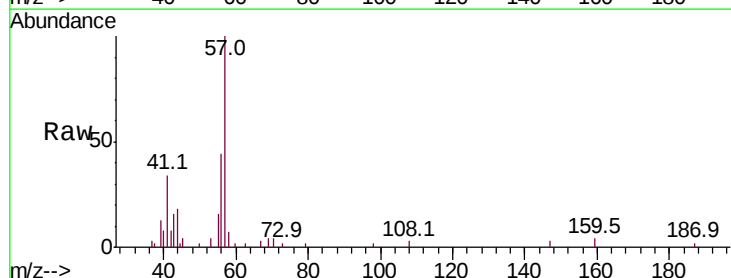
Tgt Ion: 57 Resp: 16529

Ion Ratio Lower Upper

57 100

41 59.6 25.8 38.6#

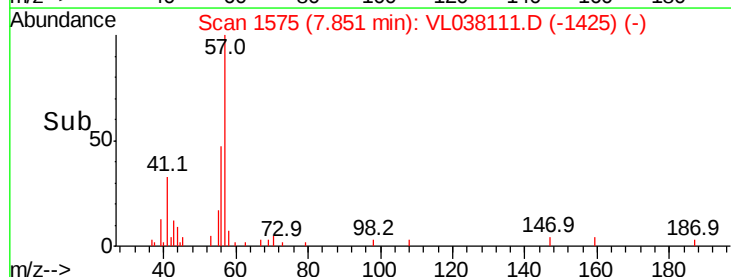
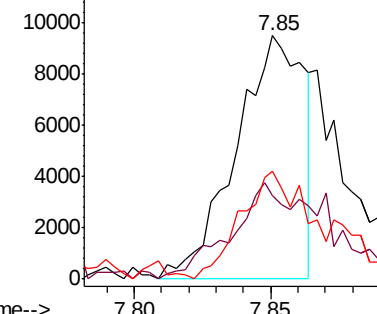
56 58.8 25.6 38.4#

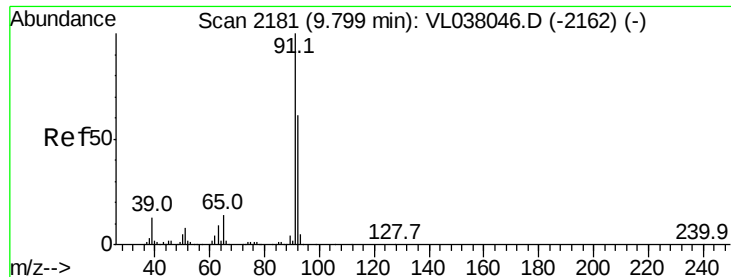


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.230 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

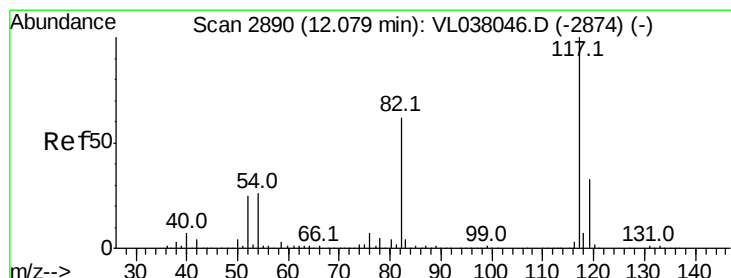
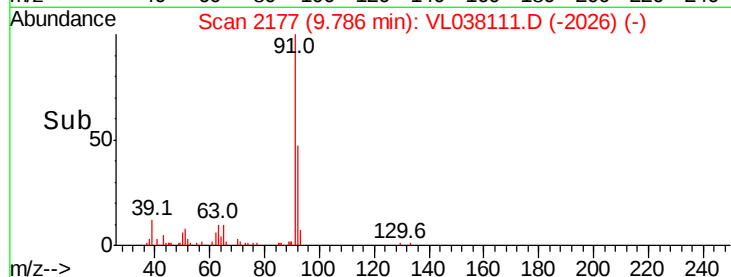
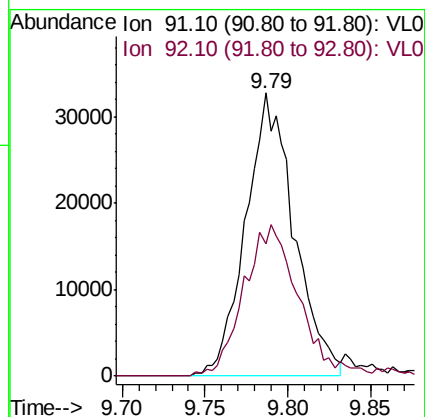
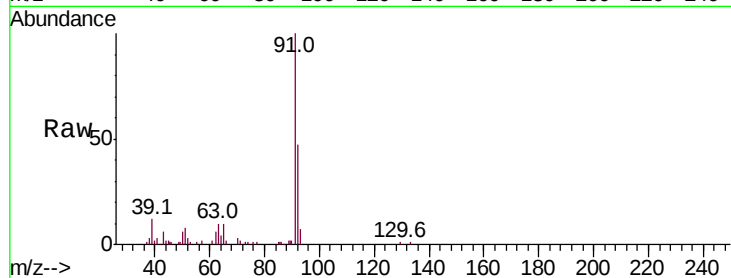
Acq: 23 Nov 2021 22:34

Tot Ion: 91 Resp: 66624

Ion Ratio Lower Upper

91 100

92 62.0 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: VL038111.D

Acq: 23 Nov 2021 22:34

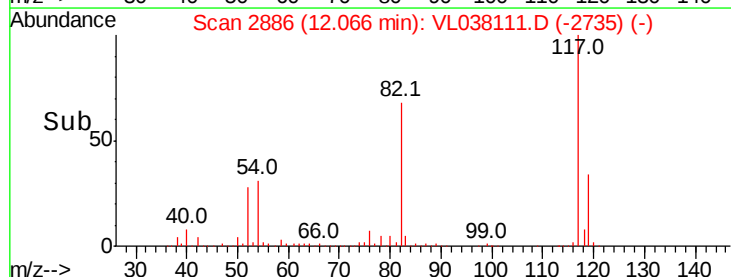
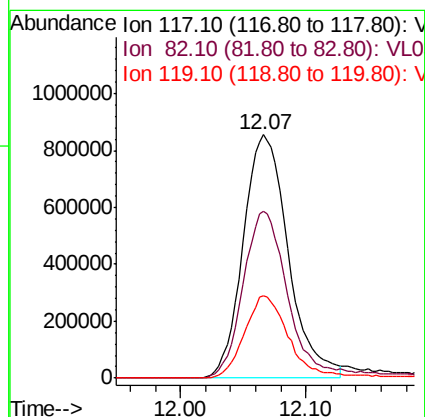
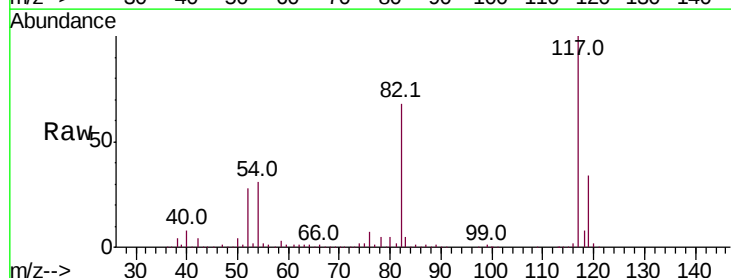
Tgt Ion: 117 Resp: 2135315

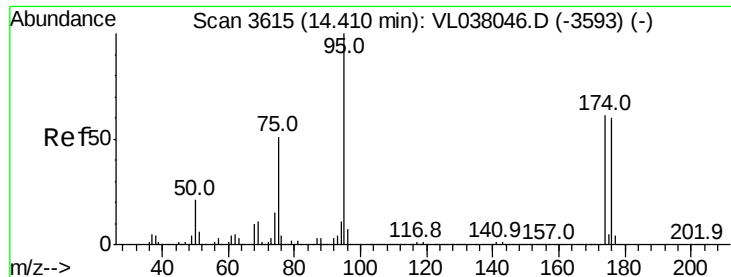
Ion Ratio Lower Upper

117 100

82 72.9 52.8 79.2

119 35.1 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 11.317 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Nov 2021 22:34

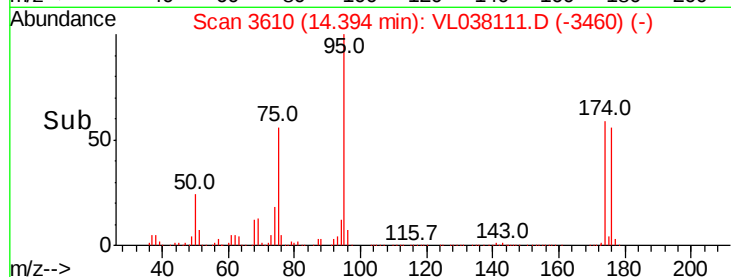
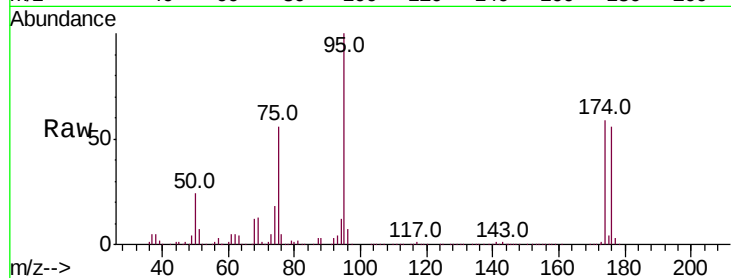
Tot Ion: 95 Resp: 1743147

Ion Ratio Lower Upper

95 100

174 60.4 53.1 79.7

175 4.3 4.0 6.0



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

