

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038456.D
 Acq On : 1 Mar 2022 18:31
 Operator : SY/AP
 Sample : N1720-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Mar 02 03:06:25 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	856528	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2179476	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	1828345	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1359778	8.99	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.90%

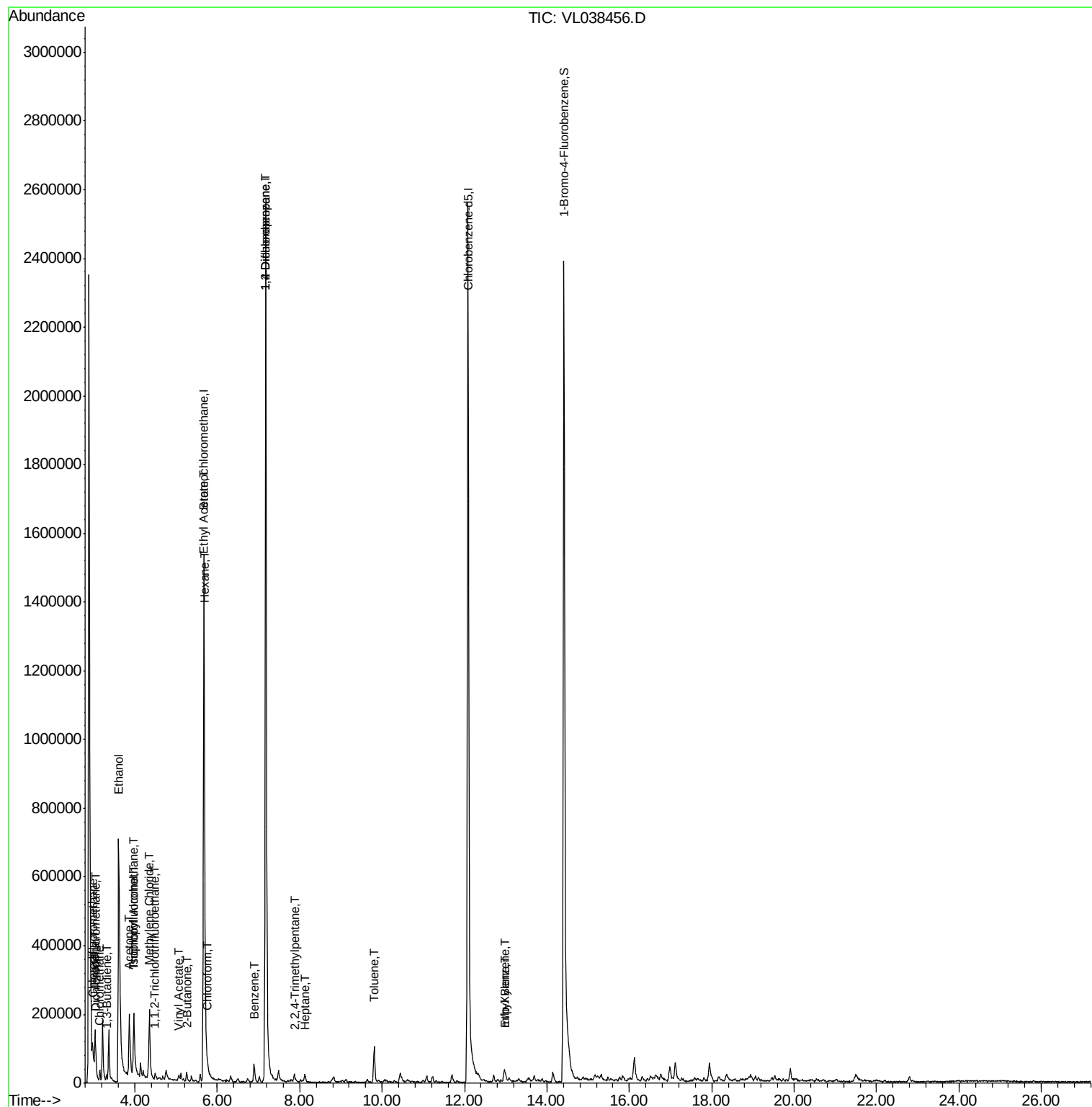
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	29638	0.22	ppbv	94
3) Chlorodifluoromethane	2.97	51	117588	0.78	ppbv #	74
4) Chloromethane	3.15	50	29627	0.56	ppbv	95
9) Propene	3.03	41	36710	0.74	ppbv	86
10) Heptane	8.12	43	9662	0.08	ppbv	91
11) Trichlorofluoromethane	3.96	101	28152	0.22	ppbv #	83
12) 1,1,2-Trichlorotrifluoroet	4.50	101	4186	0.04	ppbv #	47
13) Ethanol	3.61	45	1084121	217.53	ppbv	92
15) Acetone	3.86	43	242918	3.33	ppbv	97
16) 1,3-Butadiene	3.32	39	3217	0.07	ppbv #	12
19) Isopropyl Alcohol	3.97	45	208011	4.93	ppbv #	95
20) Methylene Chloride	4.35	84	79194	2.19	ppbv	99
23) Vinyl Acetate	5.07	43	7333	0.08	ppbv #	45
25) Ethyl Acetate	5.69	43	75218	0.38	ppbv #	91
26) Hexane	5.69	57	79662	0.90	ppbv #	51
29) Chloroform	5.76	83	5167	0.04	ppbv	96
34) 2-Butanone	5.25	43	15491	0.23	ppbv #	31
36) Benzene	6.89	78	42900	0.22	ppbv #	90
39) 1,2-Dichloropropane	7.18	63	548822	7.18	ppbv #	24
44) 2,2,4-Trimethylpentane	7.87	57	17890	0.05	ppbv #	71
53) Toluene	9.81	91	35540	0.17	ppbv #	6
58) Ethyl Benzene	13.00	91	10693	0.04	ppbv	94
59) m/p-Xylene	13.00	91	10693	0.05	ppbv #	33

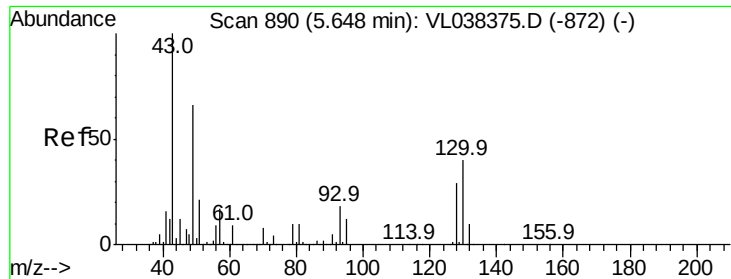
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
Data File : VL038456.D
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Operator : SY/AP
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

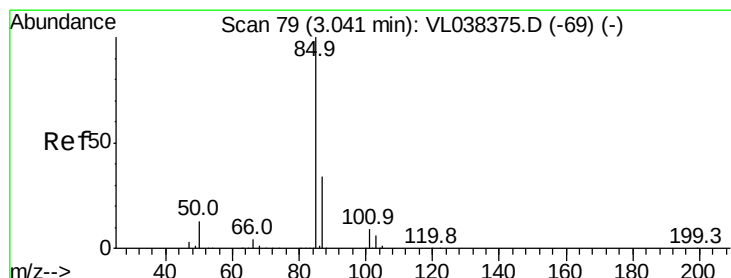
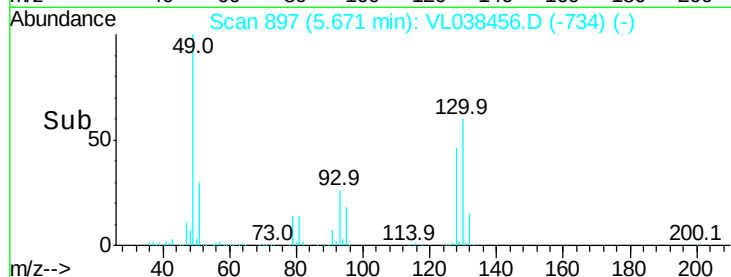
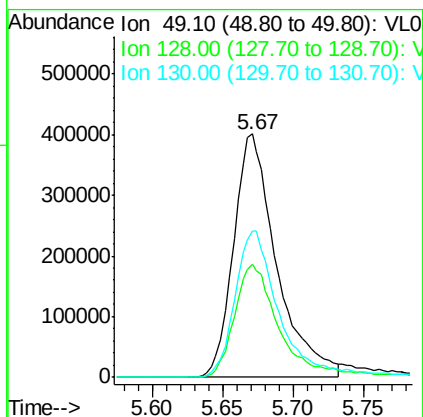
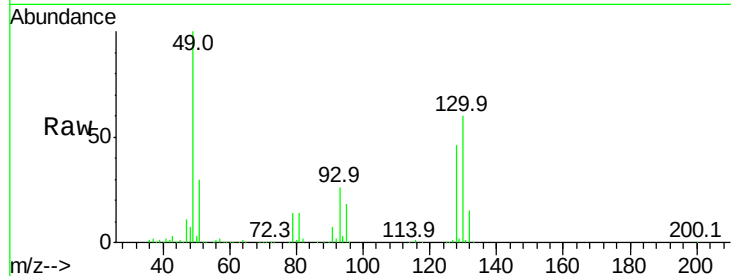
Quant Time: Mar 02 03:06:25 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
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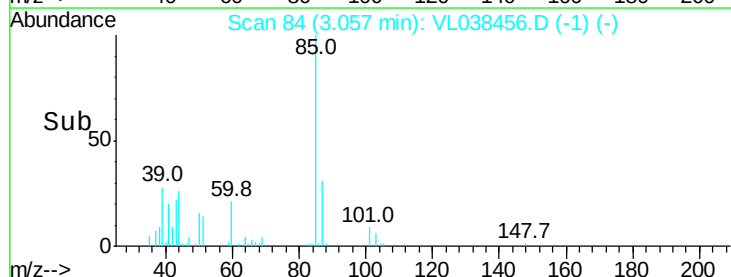
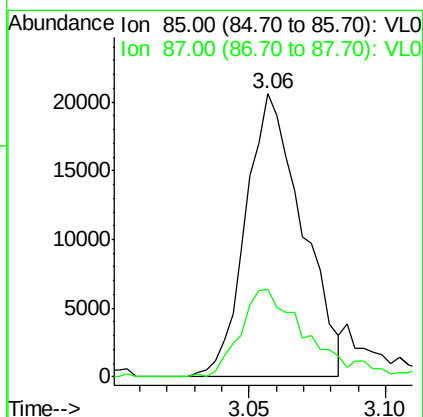
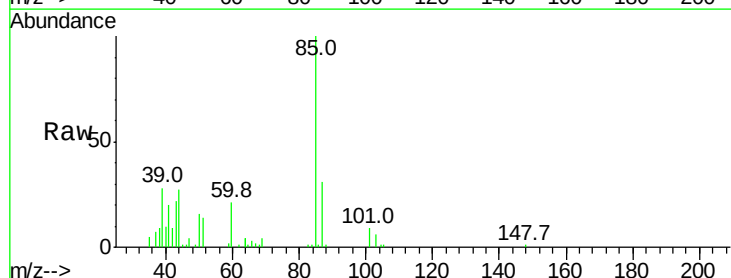
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 18:31

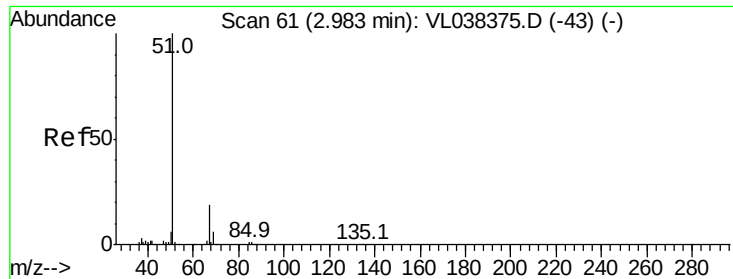
Tgt Ion: 49 Resp: 856528
 Ion Ratio Lower Upper
 49 100
 128 49.7 24.3 72.9
 130 63.9 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.22 ppbv
 RT: 3.06 min Scan# 84
 Delta R.T. 0.02 min
 Lab File: VL038456.D
 Acq: 1 Mar 2022 18:31

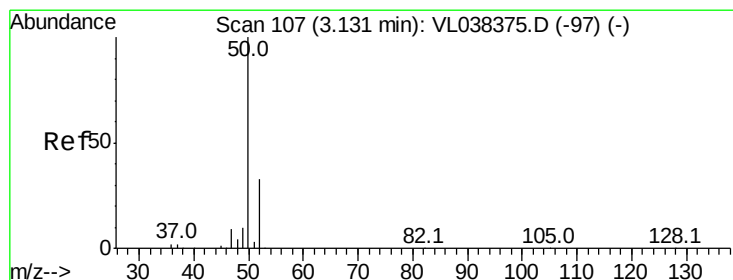
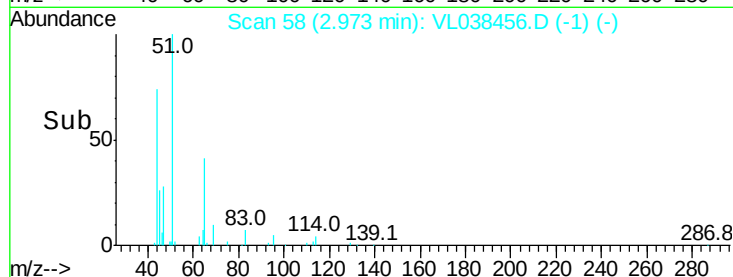
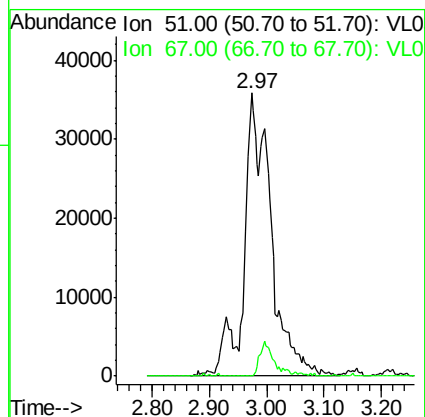
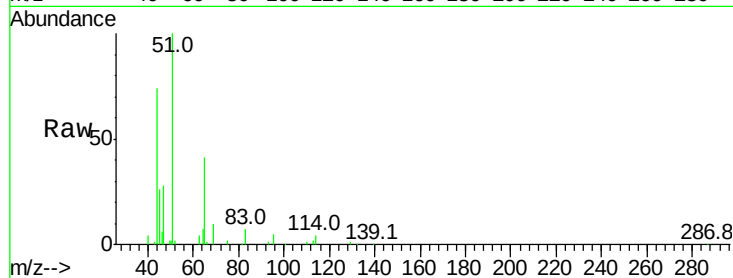
Tgt Ion: 85 Resp: 29638
 Ion Ratio Lower Upper
 85 100
 87 31.0 27.4 41.0





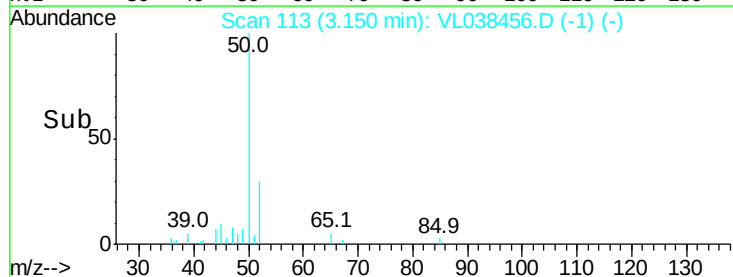
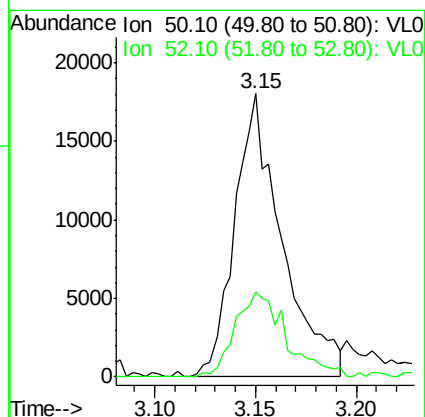
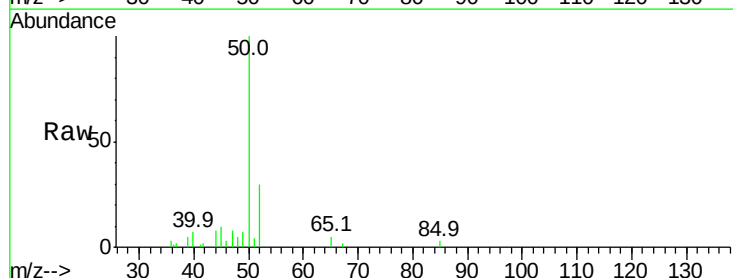
#3
 Chlorodifluoromethane
 Concen: 0.78 ppbv
 RT: 2.97
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 18:31

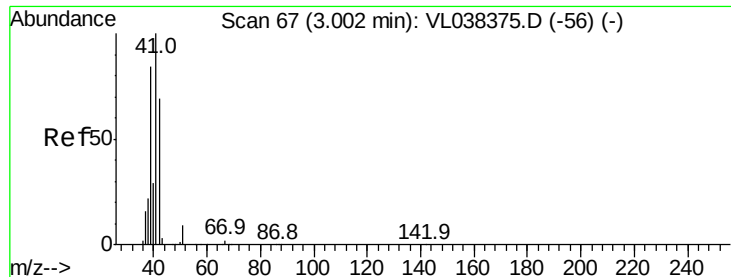
Tgt Ion: 51 Resp: 117588
 Ion Ratio Lower Upper
 51 100
 67 6.8 14.7 22.1#



#4
 Chloromethane
 Concen: 0.56 ppbv
 RT: 3.15 min Scan# 113
 Delta R.T. 0.02 min
 Lab File: VL038456.D
 Acq: 1 Mar 2022 18:31

Tgt Ion: 50 Resp: 29627
 Ion Ratio Lower Upper
 50 100
 52 30.2 26.5 39.7





#9

Propene

Concen: 0.74 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. 0.03

Lab File: ClientSampleId: A1DUP

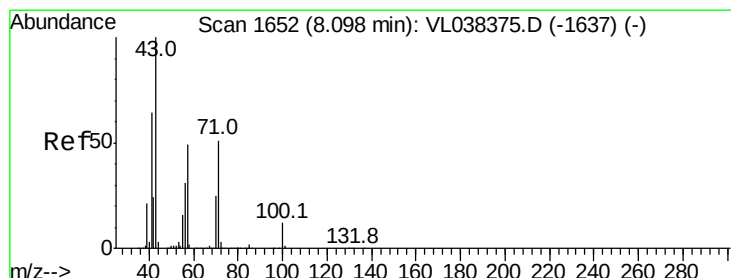
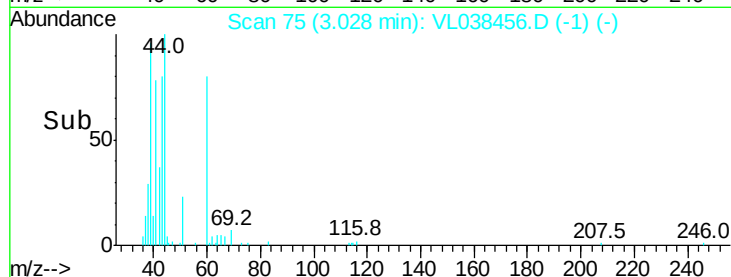
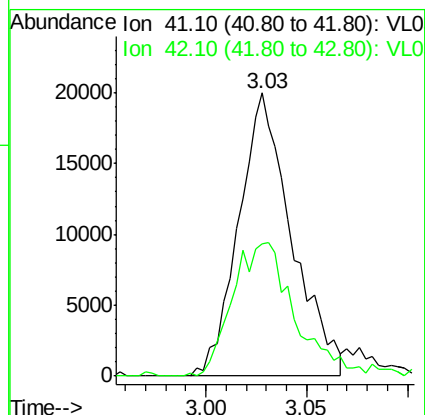
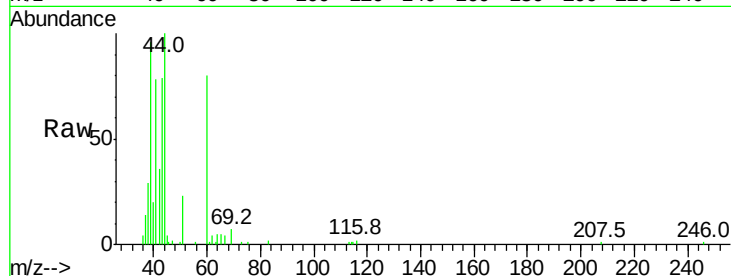
Acq: 1 Mar 2022 18:31

Tgt Ion: 41 Resp: 36710

Ion Ratio Lower Upper

41 100

42 56.6 54.6 82.0



#10

Heptane

Concen: 0.08 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.03 min

Lab File: VL038456.D

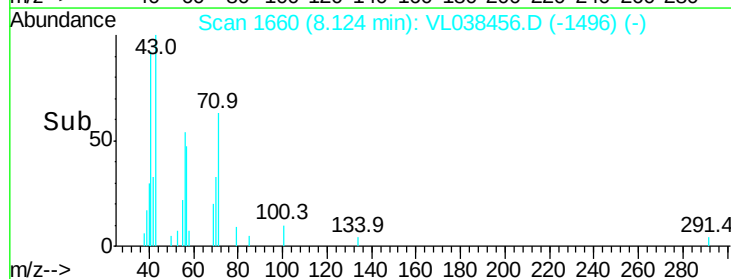
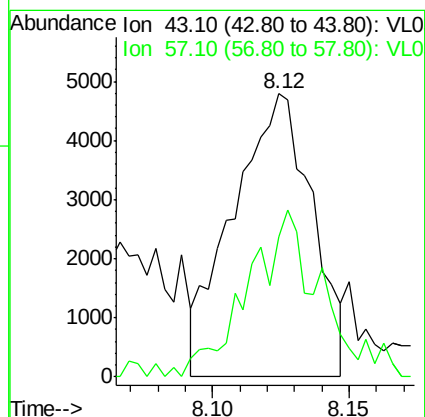
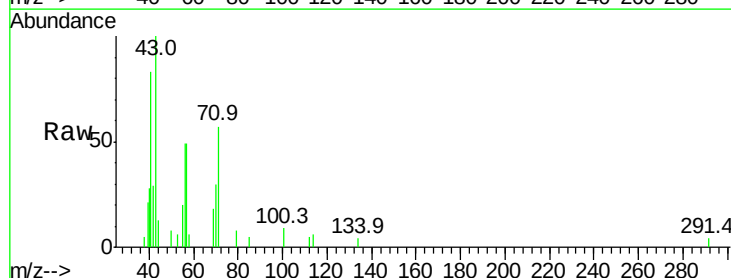
Acq: 1 Mar 2022 18:31

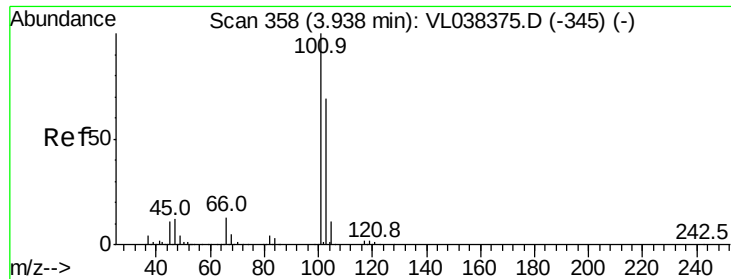
Tgt Ion: 43 Resp: 9662

Ion Ratio Lower Upper

43 100

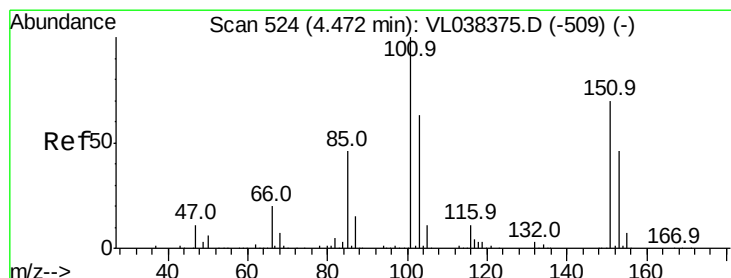
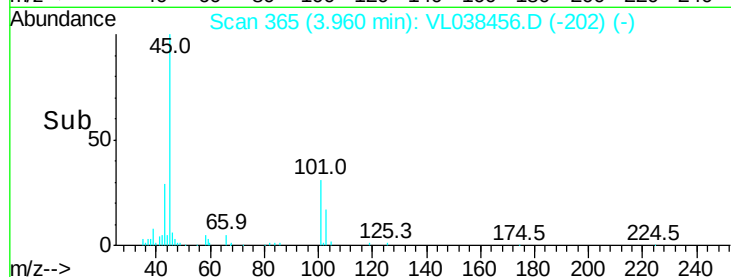
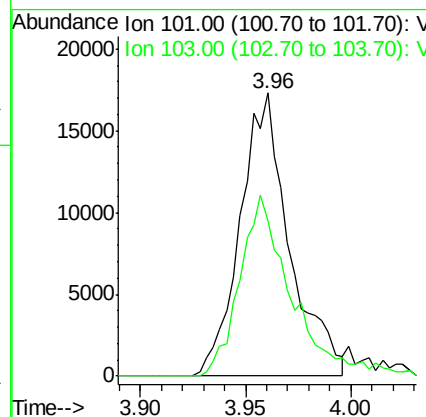
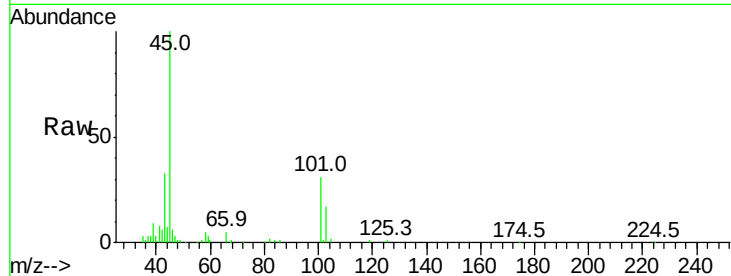
57 56.0 39.8 59.8





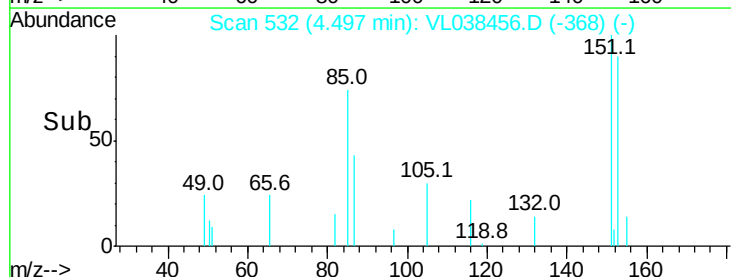
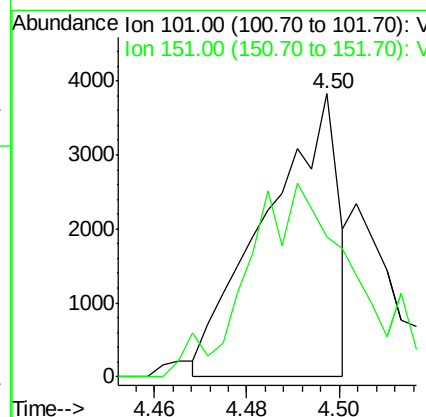
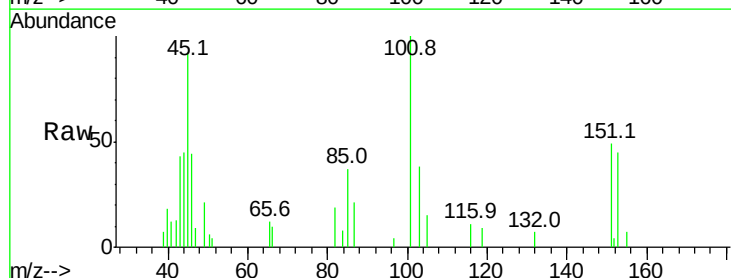
#11
 Trichlorofluoromethane
 Concen: 0.22 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 18:31

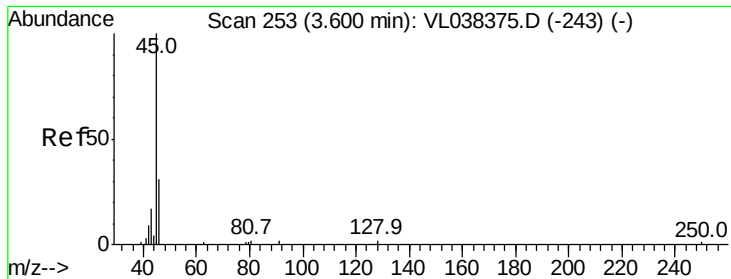
Tgt Ion:101 Resp: 28152
 Ion Ratio Lower Upper
 101 100
 103 54.9 55.0 82.4#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.04 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.03 min
 Lab File: VL038456.D
 Acq: 1 Mar 2022 18:31

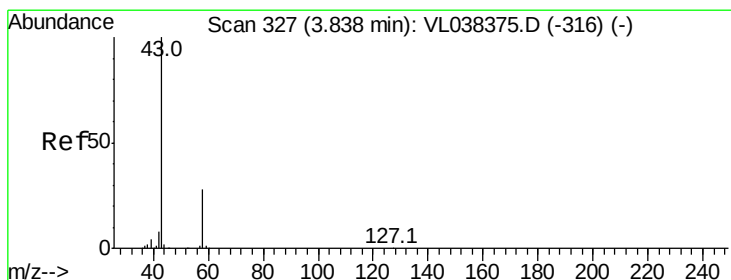
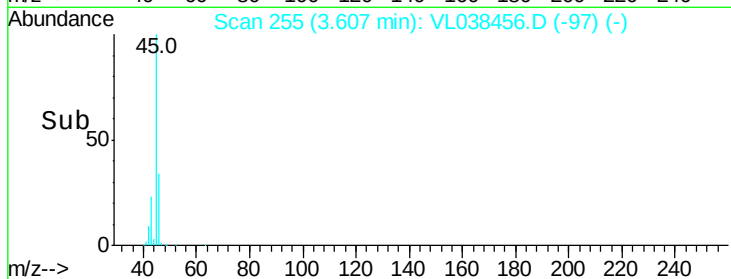
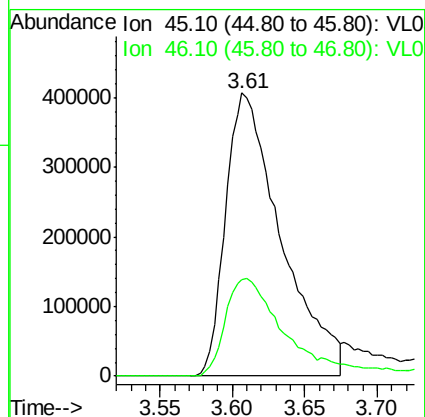
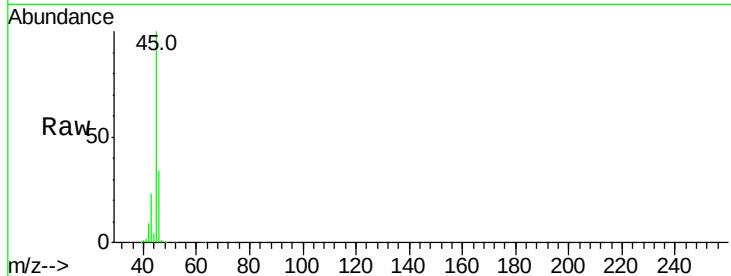
Tgt Ion:101 Resp: 4186
 Ion Ratio Lower Upper
 101 100
 151 113.7 55.9 83.9#





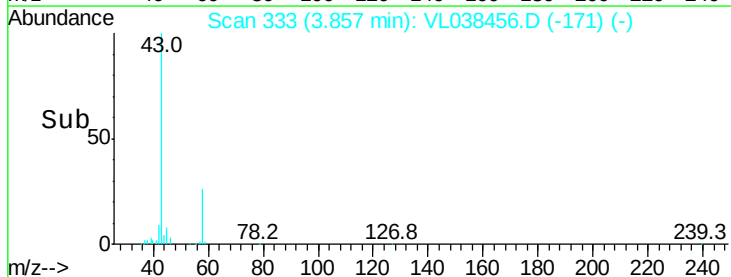
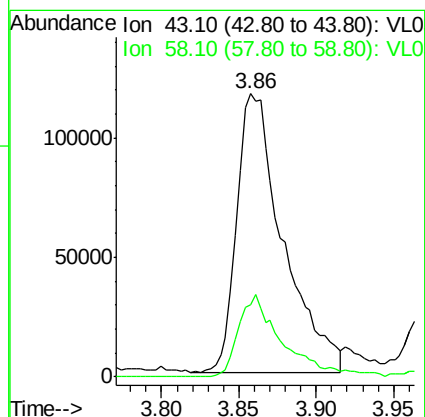
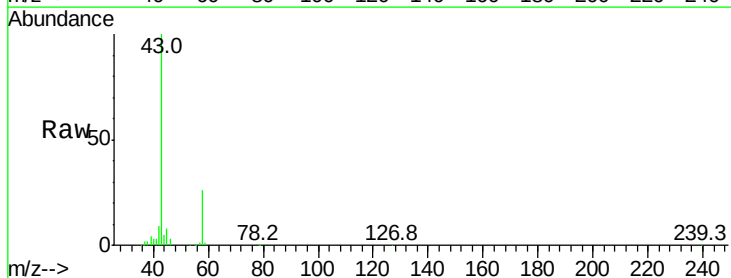
#13
Ethanol
Concen: 217.53 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Mar 2022 18:31

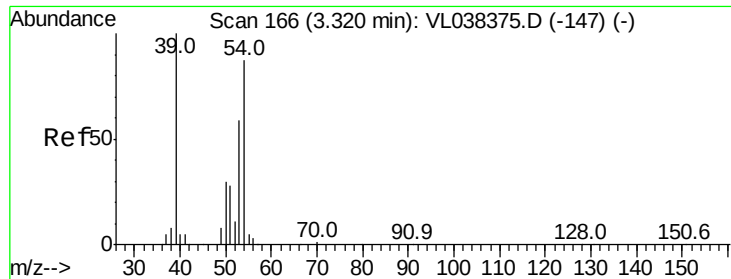
Tgt Ion: 45 Resp: 1084121
Ion Ratio Lower Upper
45 100
46 40.1 18.2 72.8



#15
Acetone
Concen: 3.33 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL038456.D
Acq: 1 Mar 2022 18:31

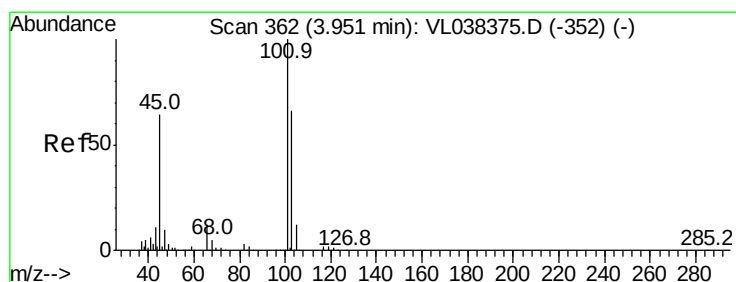
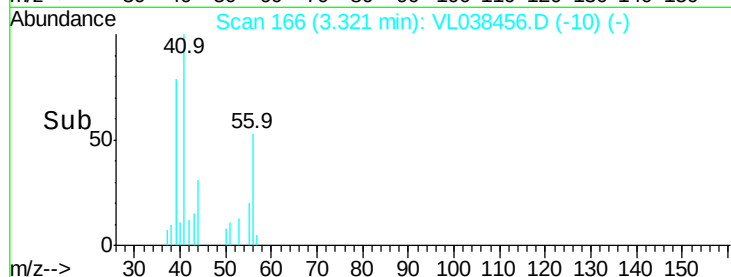
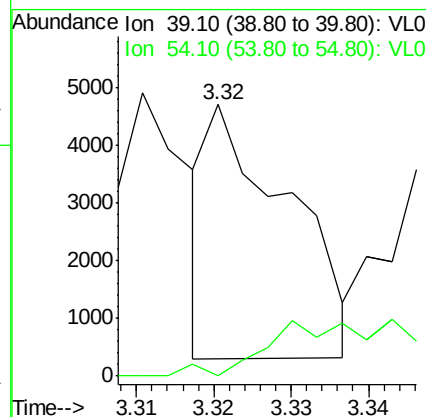
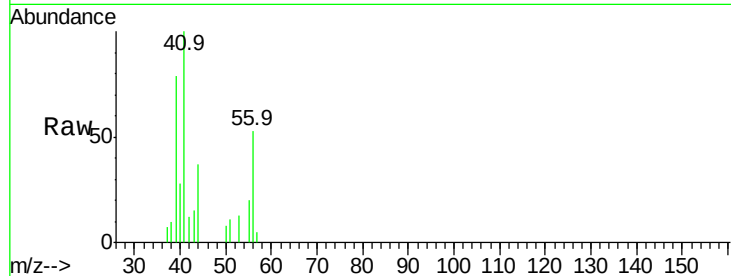
Tgt Ion: 43 Resp: 242918
Ion Ratio Lower Upper
43 100
58 28.4 21.7 32.5





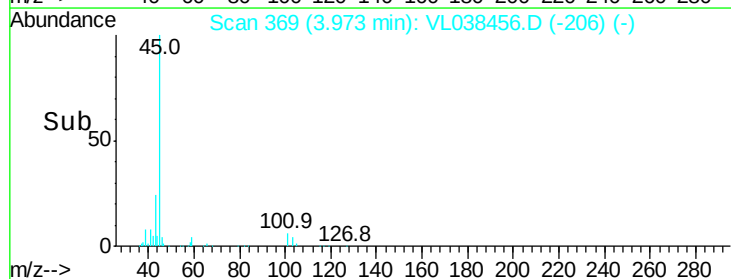
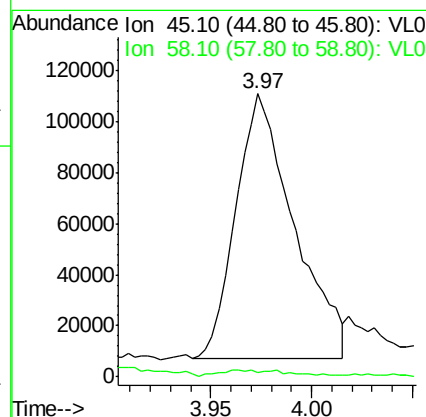
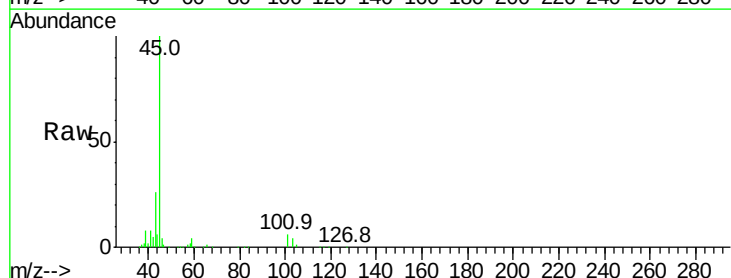
#16
 1,3-Butadiene
 Concen: 0.07 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 1 Mar 2022 18:31

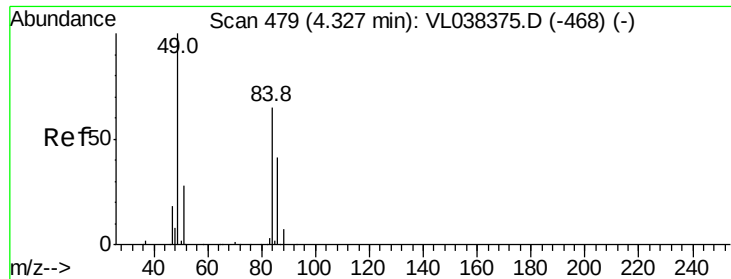
Tgt Ion: 39 Resp: 3217
 Ion Ratio Lower Upper
 39 100
 54 0.0 60.3 90.5#



#19
 Isopropyl Alcohol
 Concen: 4.93 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VL038456.D
 Acq: 1 Mar 2022 18:31

Tgt Ion: 45 Resp: 208011
 Ion Ratio Lower Upper
 45 100
 58 3.9 1.8 2.8#





#20

Methylene Chloride

Concen: 2.19 ppbv

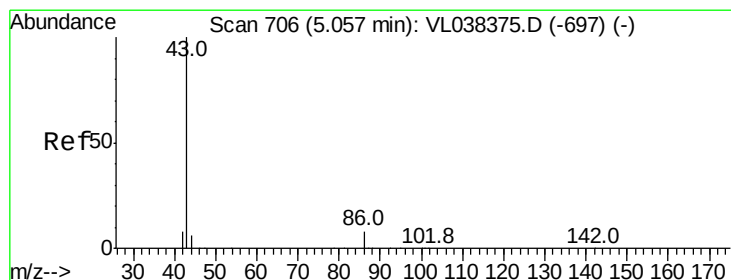
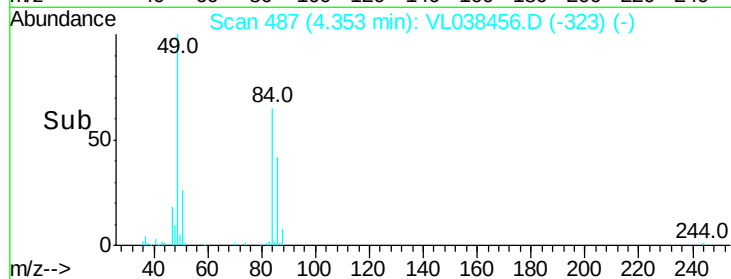
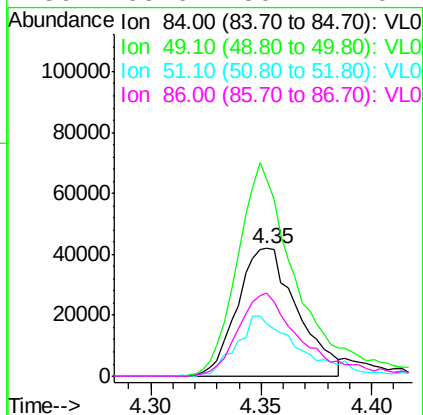
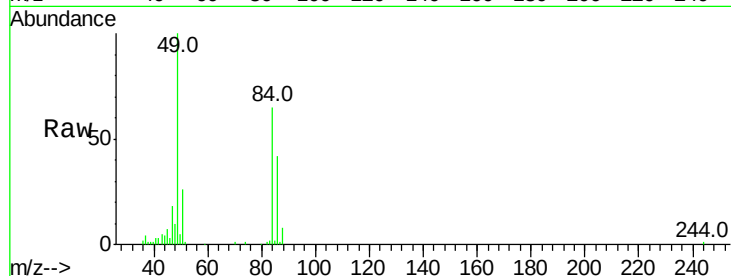
RT: 4.35

Delta R.T. MSVOA_L

Lab File: ClientSampleId : IA1DUP

Acq: 1 Mar 2022 18:31

Tgt Ion:	84	Resp:	79194
Ion	Ratio	Lower	Upper
84	100		
49	153.8	122.4	183.6
51	41.6	33.3	49.9
86	65.6	50.7	76.1



#23

Vinyl Acetate

Concen: 0.08 ppbv

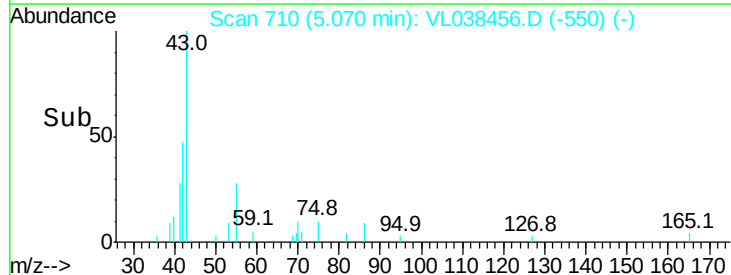
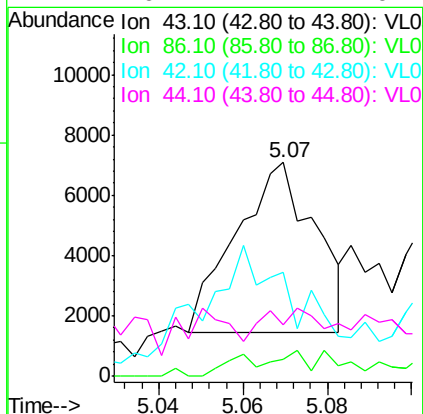
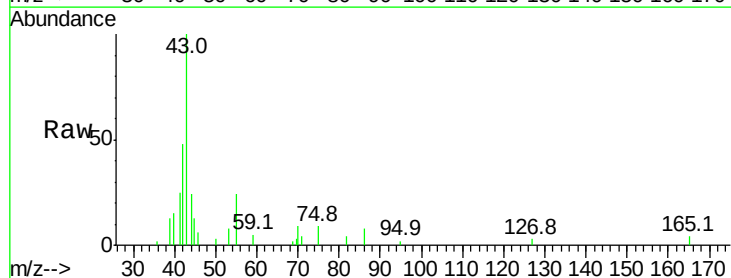
RT: 5.07 min Scan# 710

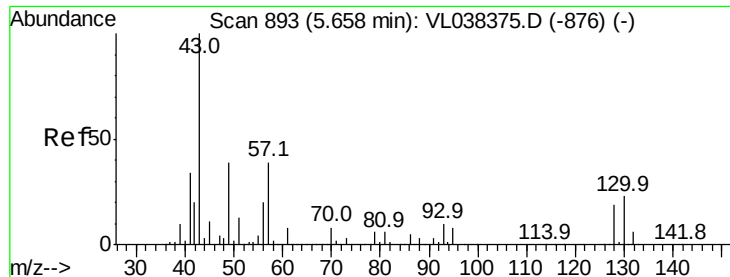
Delta R.T. 0.01 min

Lab File: VL038456.D

Acq: 1 Mar 2022 18:31

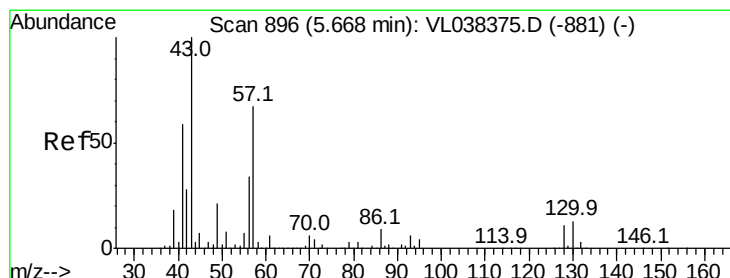
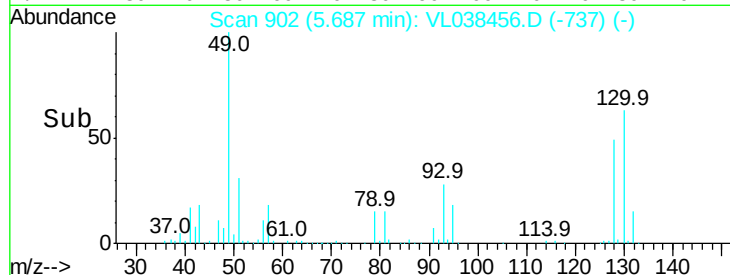
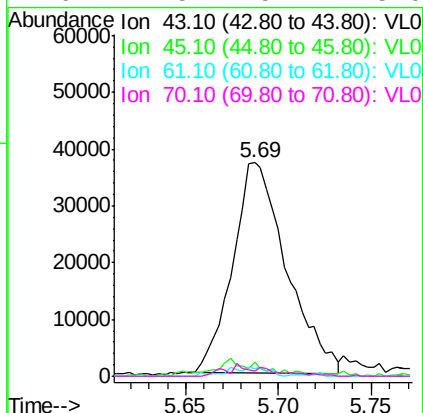
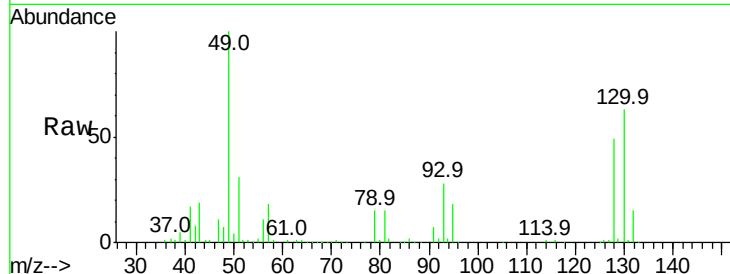
Tgt Ion:	43	Resp:	7333
Ion	Ratio	Lower	Upper
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86	12.5	5.8	8.6#
42	48.1	7.4	11.0#
44	10.4	4.2	6.2#





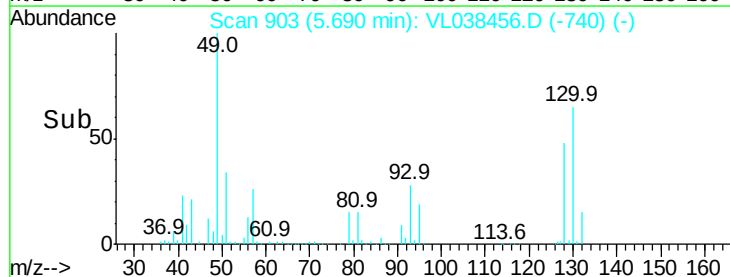
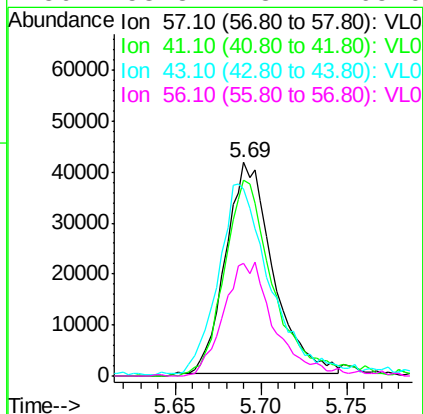
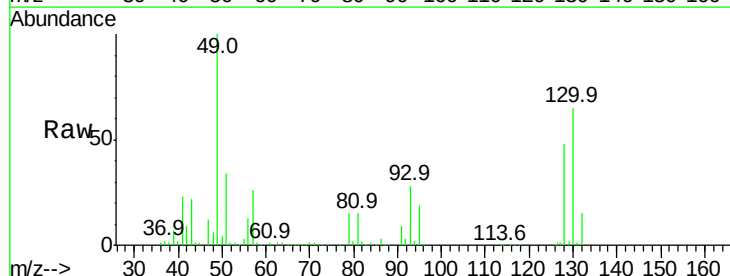
#25
Ethyl Acetate
Concen: 0.38 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 1 Mar 2022 18:31

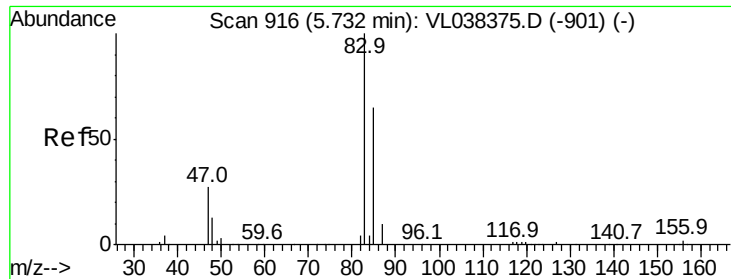
Tgt Ion:	43	Resp:	75218
Ion	Ratio	Lower	Upper
43	100		
45	8.1	7.8	11.6
61	3.8	7.5	11.3#
70	4.5	5.4	8.0#



#26
Hexane
Concen: 0.90 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.02 min
Lab File: VL038456.D
Acq: 1 Mar 2022 18:31

Tgt Ion:	57	Resp:	79662
Ion	Ratio	Lower	Upper
57	100		
41	97.2	73.1	109.7
43	100.8	181.0	271.4#
56	58.8	43.4	65.0





#29

Chloroform

Concen: 0.04 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

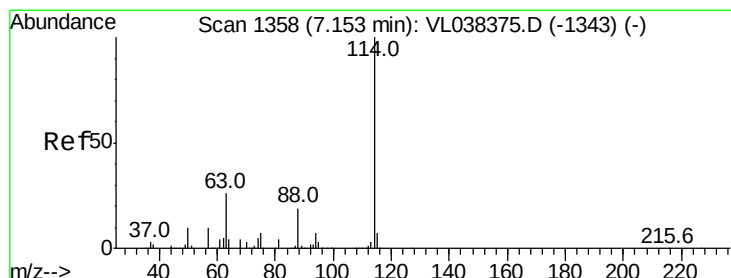
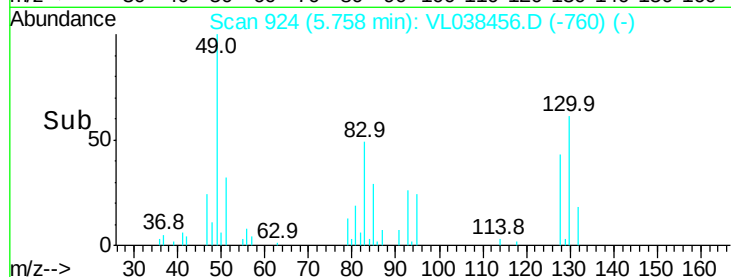
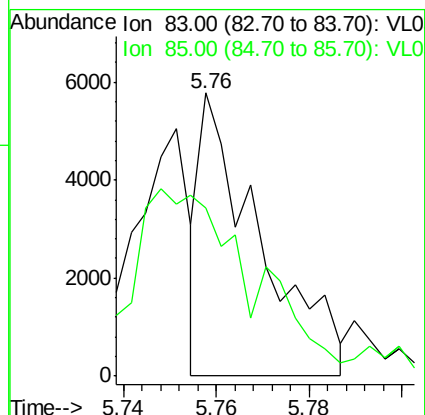
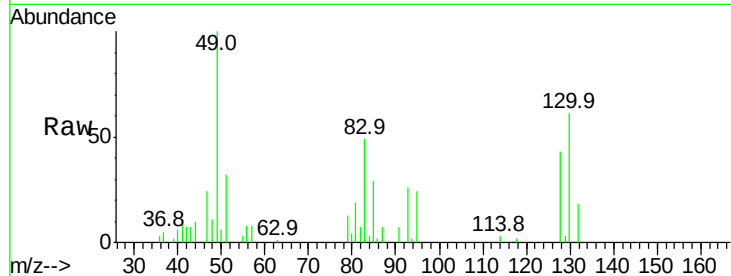
Acq: 1 Mar 2022 18:31

Tgt Ion: 83 Resp: 5167

Ion Ratio Lower Upper

83 100

85 61.6 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.02 min

Lab File: VL038456.D

Acq: 1 Mar 2022 18:31

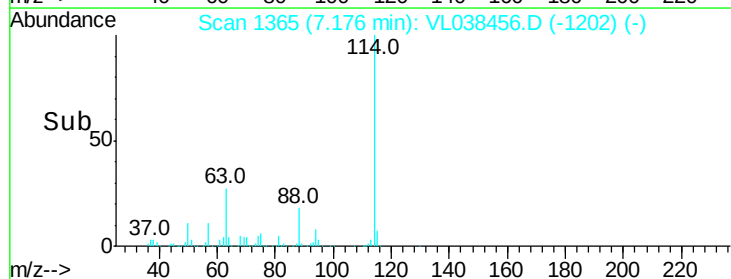
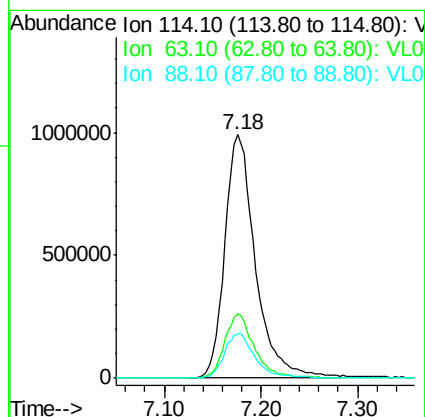
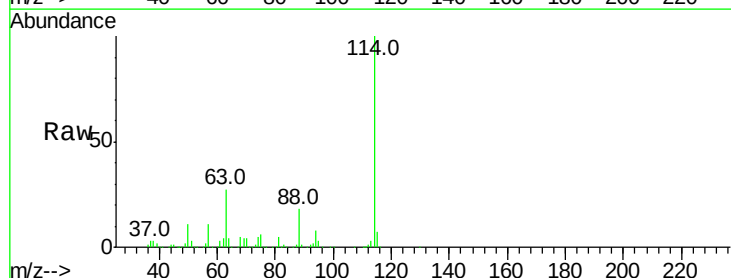
Tgt Ion: 114 Resp: 2179476

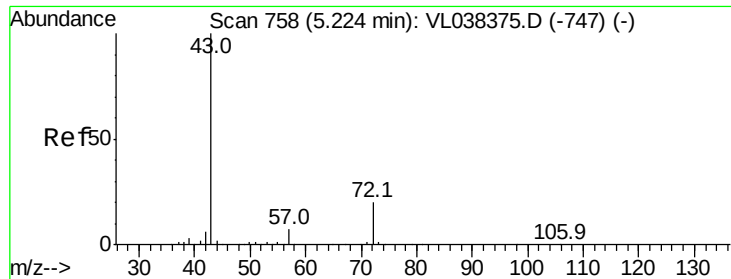
Ion Ratio Lower Upper

114 100

63 26.2 22.2 33.2

88 18.4 15.2 22.8





#34

2-Butanone

Concen: 0.23 ppbv

RT: 5.25 Instrument: MSVOA_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: A1DUP

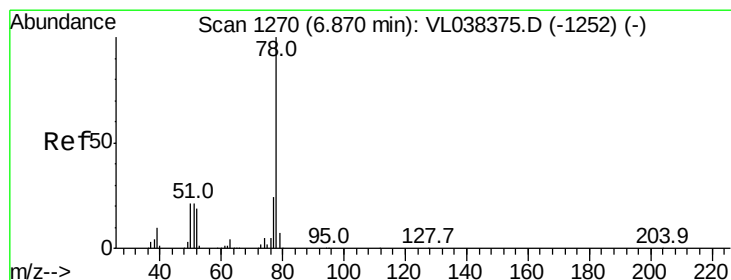
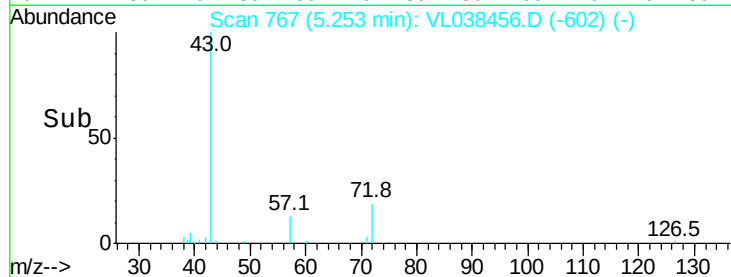
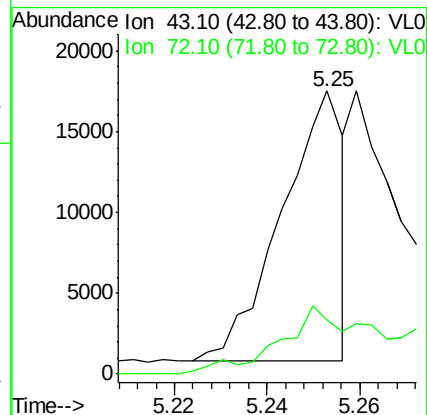
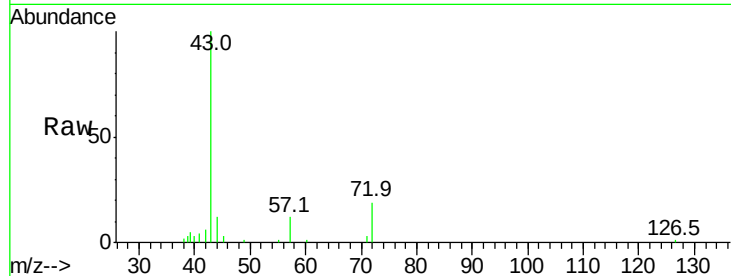
Acq: 1 Mar 2022 18:31

Tgt Ion: 43 Resp: 15491

Ion Ratio Lower Upper

43 100

72 54.7 17.4 26.2#



#36

Benzene

Concen: 0.22 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. 0.02 min

Lab File: VL038456.D

Acq: 1 Mar 2022 18:31

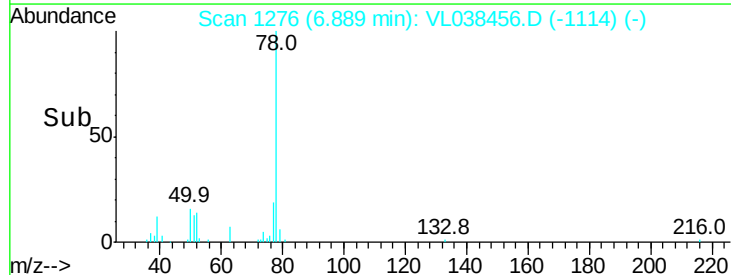
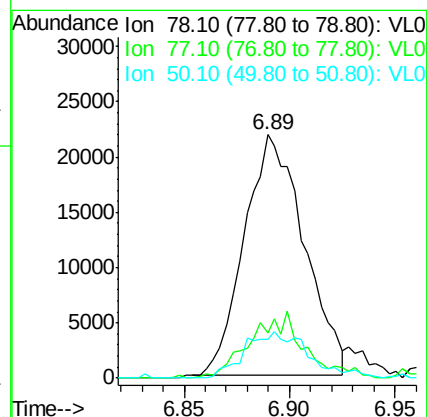
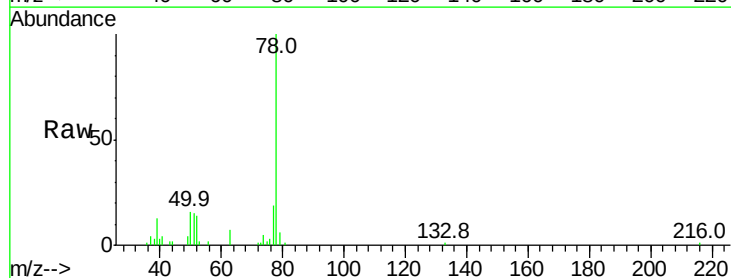
Tgt Ion: 78 Resp: 42900

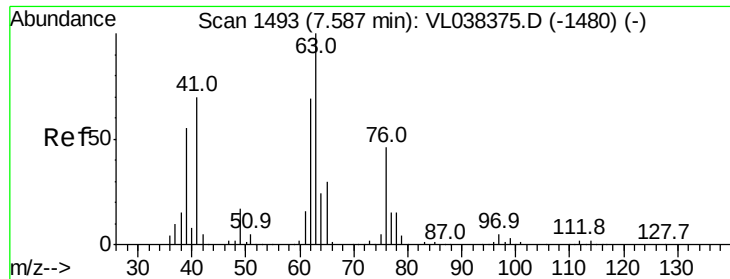
Ion Ratio Lower Upper

78 100

77 18.9 19.0 28.6#

50 16.3 16.6 24.8#





#39

1,2-Dichloropropane

Concen: 7.18 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 1 Mar 2022 18:31

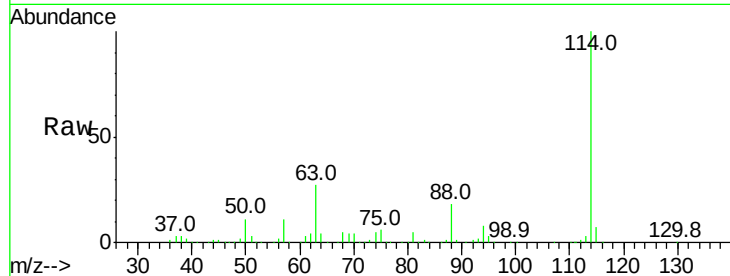
Tgt Ion: 63 Resp: 548822

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

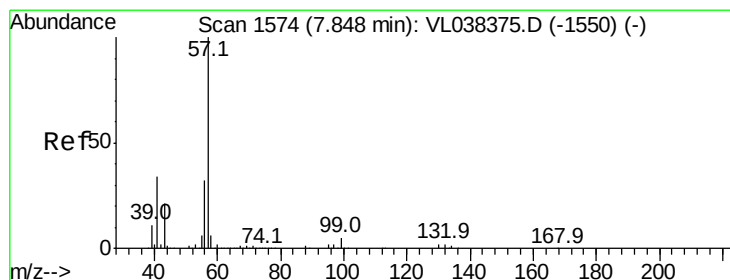
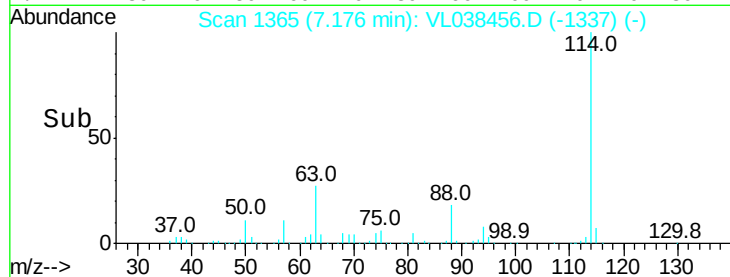
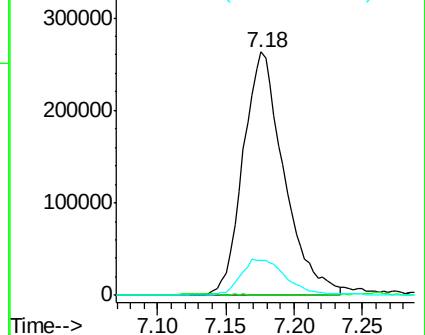
62 14.4 55.5 83.3#



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: 0.05 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VL038456.D

Acq: 1 Mar 2022 18:31

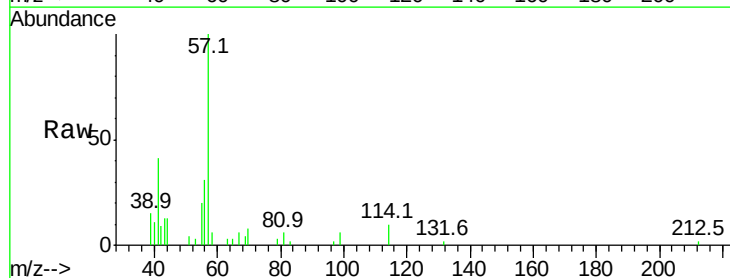
Tgt Ion: 57 Resp: 17890

Ion Ratio Lower Upper

57 100

41 52.1 26.6 39.8#

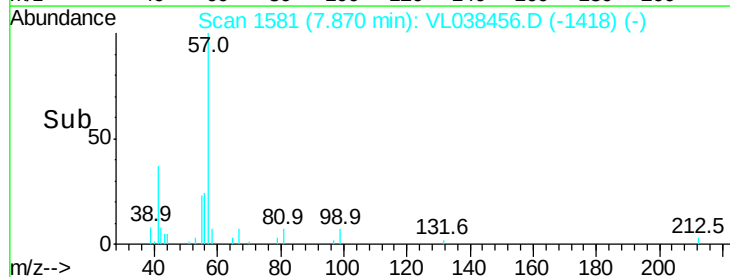
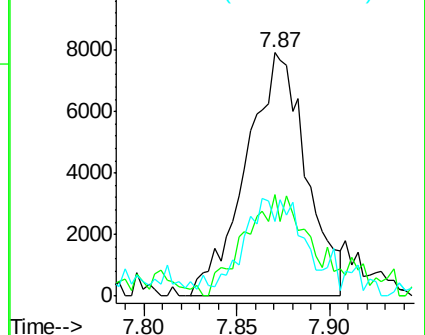
56 45.1 25.0 37.6#

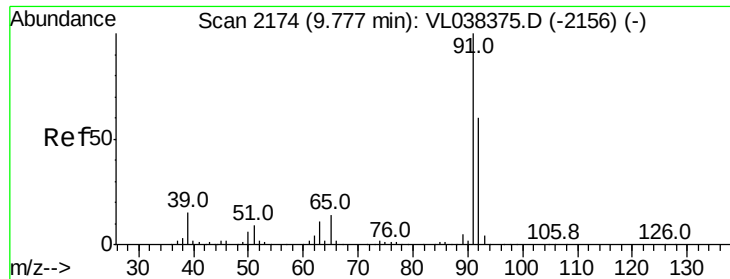


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.17 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

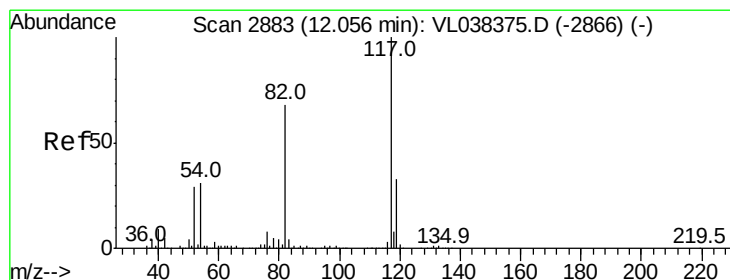
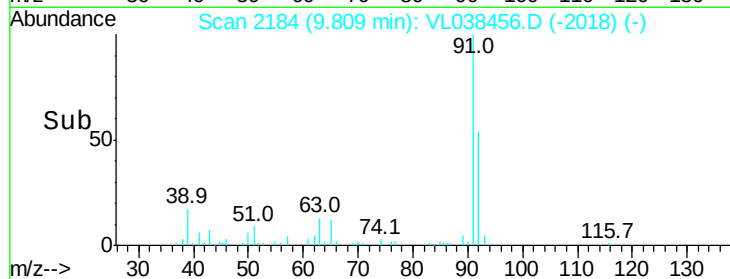
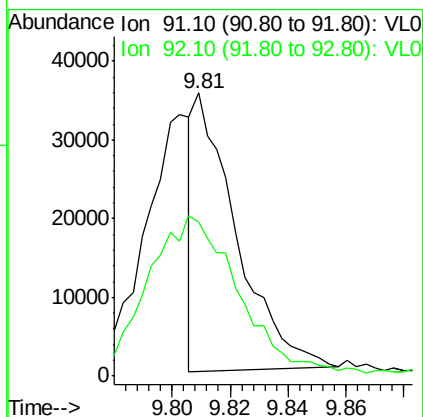
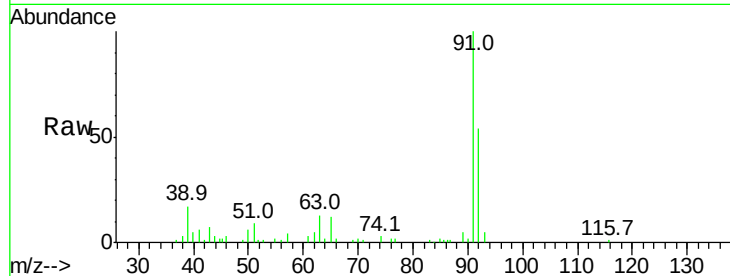
Acq: 1 Mar 2022 18:31

Tgt Ion: 91 Resp: 35540

Ion Ratio Lower Upper

91 100

92 131.4 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.03 min

Lab File: VL038456.D

Acq: 1 Mar 2022 18:31

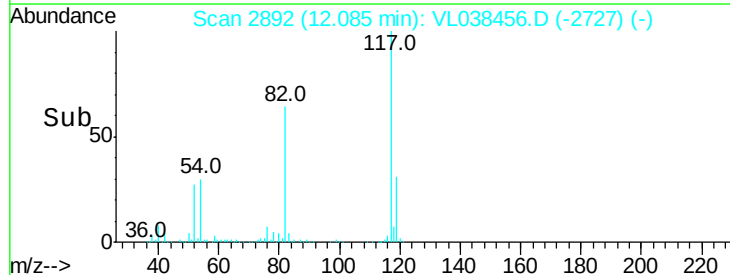
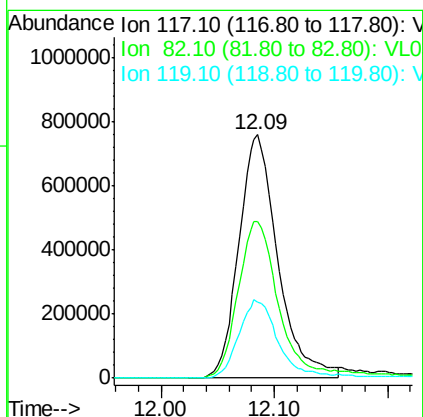
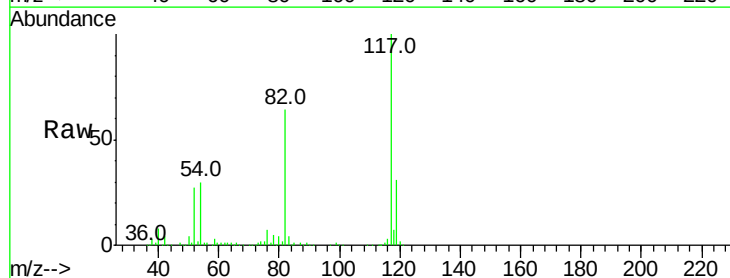
Tgt Ion: 117 Resp: 1828345

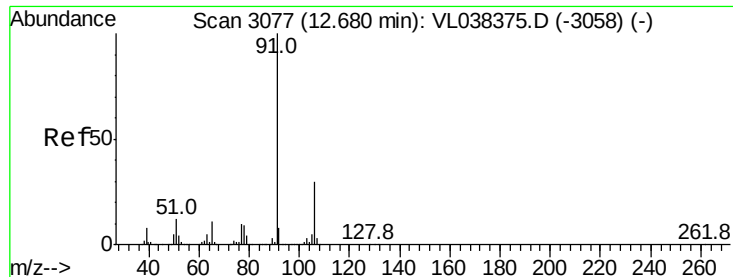
Ion Ratio Lower Upper

117 100

82 70.7 54.9 82.3

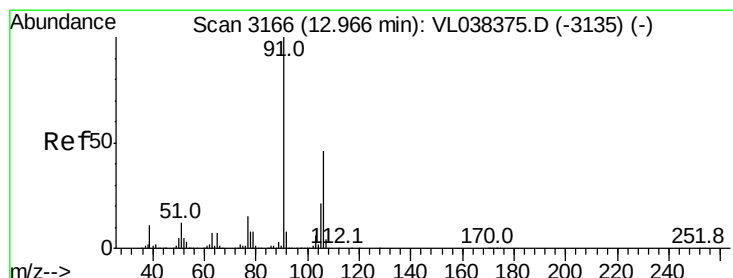
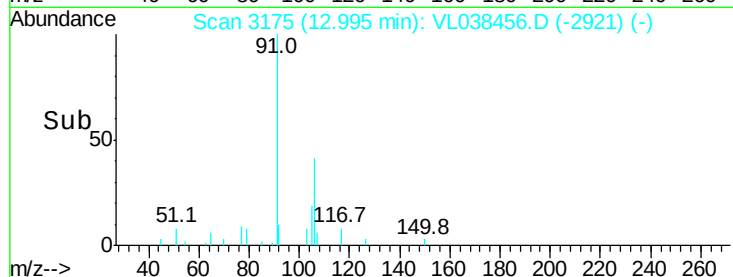
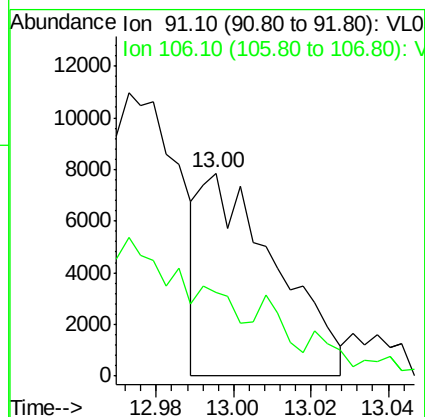
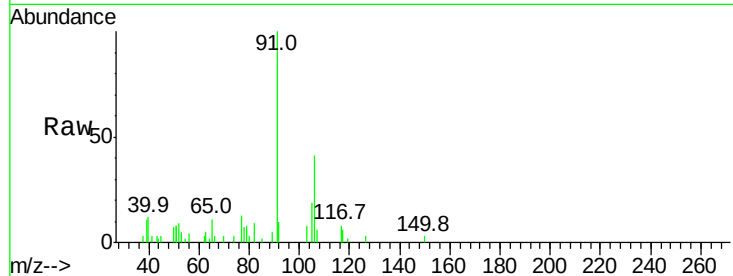
119 34.0 46.1 69.1#





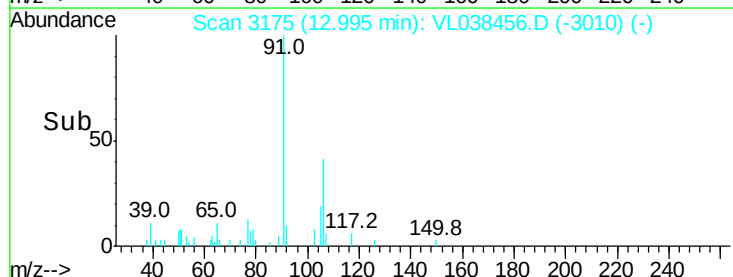
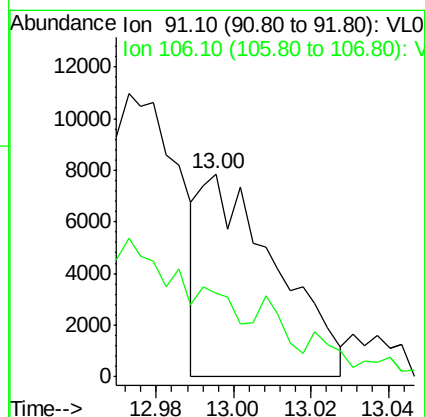
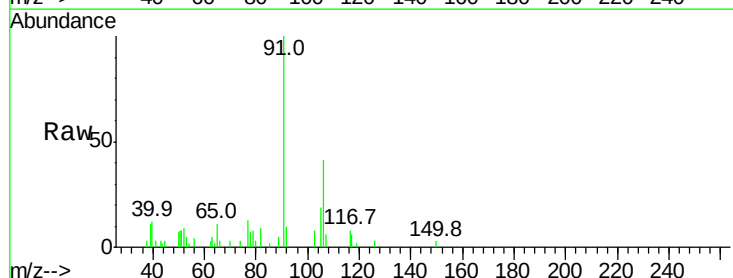
#58
Ethyl Benzene
Concen: 0.04 ppbv
RT: 13.00 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 1 Mar 2022 18:31

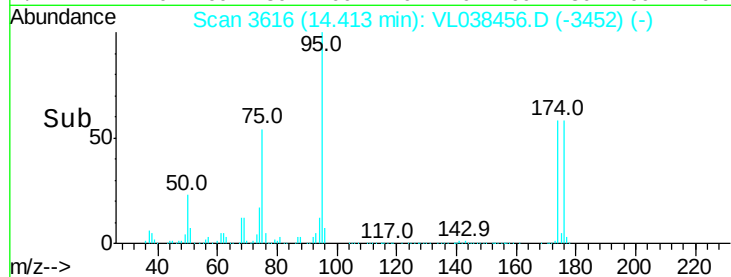
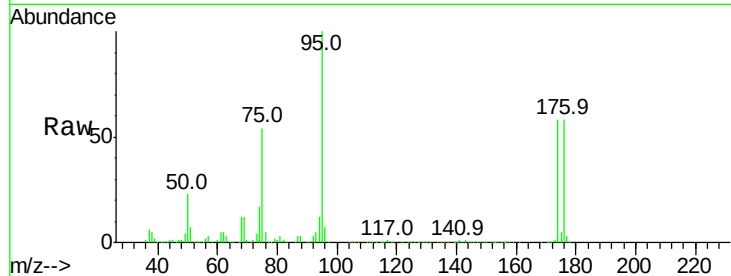
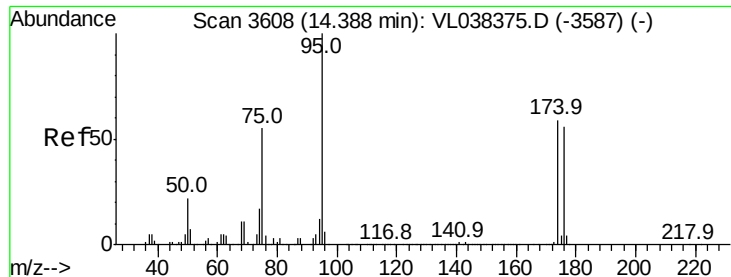
Tgt Ion: 91 Resp: 10693
Ion Ratio Lower Upper
91 100
106 33.0 24.0 36.0



#59
m/p-Xylene
Concen: 0.05 ppbv
RT: 13.00 min Scan# 3175
Delta R.T. 0.03 min
Lab File: VL038456.D
Acq: 1 Mar 2022 18:31

Tgt Ion: 91 Resp: 10693
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 8.99 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

IA1DUP

Acq: 1 Mar 2022 18:31

Tgt Ion: 95 Resp: 1359778

Ion Ratio Lower Upper

95 100

174 66.7 49.0 73.4

175 4.7 3.6 5.4

