

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL053122\
 Data File : VL039137.D
 Acq On : 31 May 2022 19:02
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: May 31 19:54:04 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 31 17:05:54 2022

QLast Update : Tue May 31 17:05:54 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1245227	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3165790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2716671	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2256076	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	27461	0.14	ppbv	92
3) Chlorodifluoromethane	3.00	51	15890	0.10	ppbv	94
4) Chloromethane	3.14	50	2989	0.04	ppbv #	86
5) Vinyl Chloride	3.27	62	7452	0.11	ppbv	94
6) Bromomethane	3.48	94	1199	0.04	ppbv #	41
7) Chloroethane	3.57	64	2241	0.09	ppbv	89
8) Dichlorotetrafluoroethane	3.20	85	19473	0.11	ppbv	89
10) Heptane	8.13	43	11320	0.07	ppbv #	71
11) Trichlorofluoromethane	3.96	101	19361	0.12	ppbv #	69
12) 1,1,2-Trichlorotrifluoroet	4.49	101	9362	0.08	ppbv #	65
13) Ethanol	3.62	45	348	0.07	ppbv #	100
14) Bromoethene	3.75	108	3244	0.07	ppbv #	1
15) Acetone	3.88	43	3906	0.03	ppbv #	1
18) 1,1-Dichloroethene	4.29	96	2889	0.06	ppbv #	66
20) Methylene Chloride	4.35	84	5916	0.13	ppbv #	79
22) trans-1,2-Dichloroethene	4.89	96	2161	0.04	ppbv #	41
24) 1,1-Dichloroethane	5.02	63	5630	0.05	ppbv	96
25) Ethyl Acetate	5.69	43	13967	0.05	ppbv #	74
26) Hexane	5.69	57	5790	0.05	ppbv #	1
27) Carbon Disulfide	4.56	76	3787	0.03	ppbv #	64
28) Methyl tert-Butyl Ether	5.05	73	4801	0.05	ppbv #	52
29) Chloroform	5.76	83	11775	0.06	ppbv	91
31) cis-1,2-Dichloroethene	5.55	61	6191	0.05	ppbv #	67
34) 2-Butanone	5.27	43	7177	0.04	ppbv #	53
36) Benzene	6.89	78	9584	0.04	ppbv #	63
38) Trichloroethene	7.85	130	4670	0.04	ppbv	94
39) 1,2-Dichloropropane	7.18	63	838692	7.96	ppbv #	25
42) Bromodichloromethane	7.80	83	16387	0.07	ppbv #	83
44) 2,2,4-Trimethylpentane	7.88	57	24829	0.05	ppbv #	52
45) t-1,3-Dichloropropene	9.29	75	3273	0.03	ppbv #	76
47) 1,1,2-Trichloroethane	9.48	97	4406	0.04	ppbv #	56
48) Dibromochloromethane	10.31	129	8002	0.04	ppbv #	25
52) Tetrachloroethene	11.23	164	4326	0.04	ppbv #	56
53) Toluene	9.81	91	9346	0.03	ppbv #	1
59) m/p-Xylene	13.00	91	20818	0.06	ppbv #	33
62) Isopropylbenzene	14.67	105	23831	0.05	ppbv #	68
63) 1,1,2,2-Tetrachloroethane	13.68	83	7949	0.04	ppbv #	25
65) tert-Butylbenzene	16.74	119	12819	0.03	ppbv #	14
69) p-Isopropyltoluene	17.66	119	26946	0.06	ppbv #	71
70) n-Butylbenzene	18.55	91	32763	0.07	ppbv	94
72) 4-Ethyltoluene	15.84	105	13096	0.04	ppbv #	46

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Quant Time: May 31 19:54:04 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 31 17:05:54 2022
QLast Update : Tue May 31 17:05:54 2022
Response via : Initial Calibration

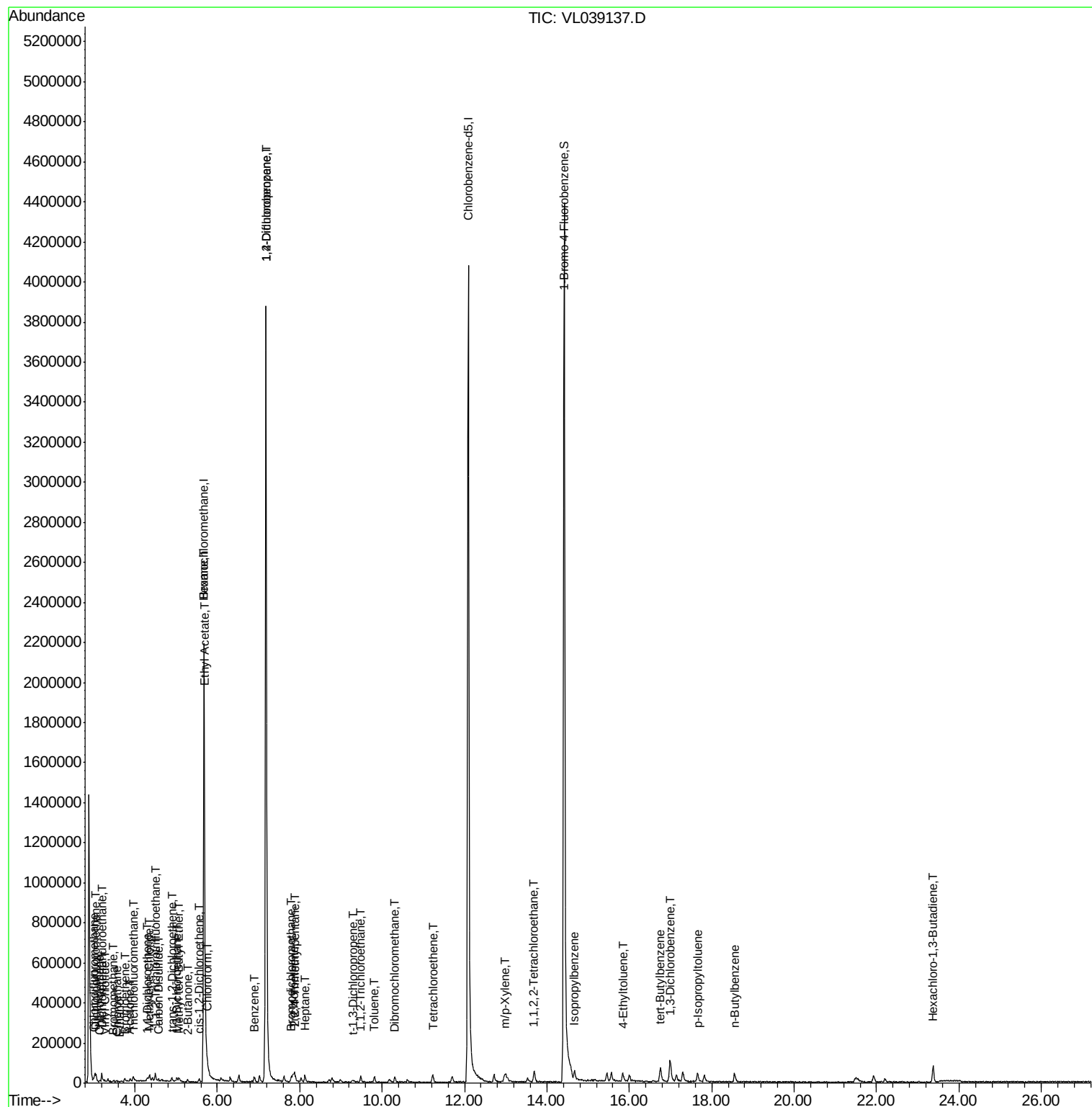
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,3-Dichlorobenzene	17.00	146	9024	0.05	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.36	225	6376	0.04	ppbv #	18

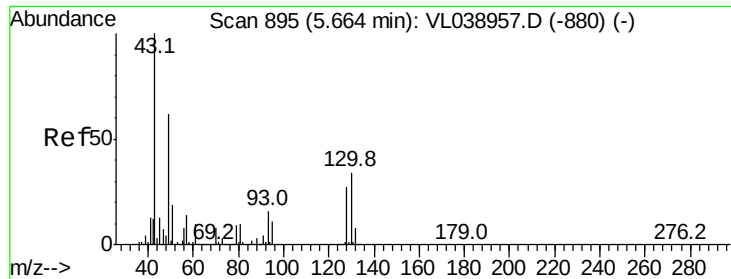
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC0.1

Acq: 31 May 2022 19:02

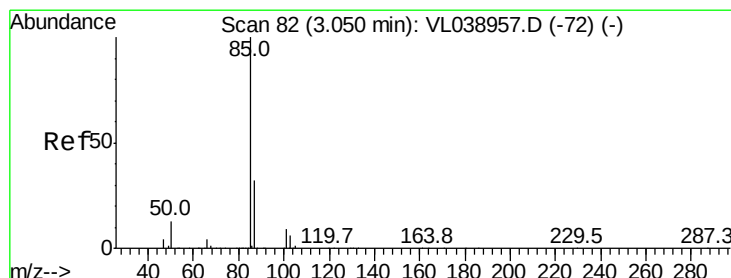
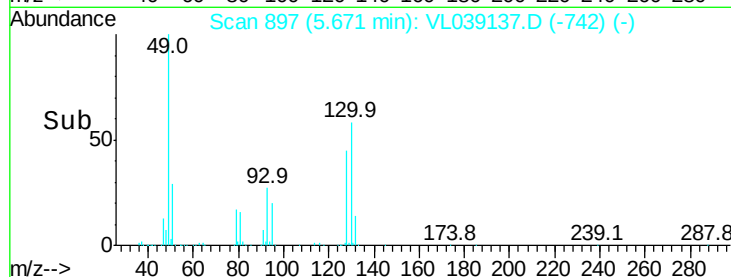
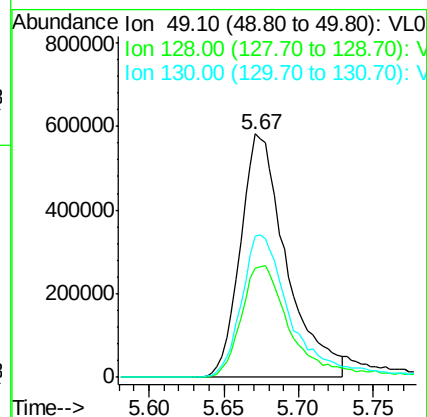
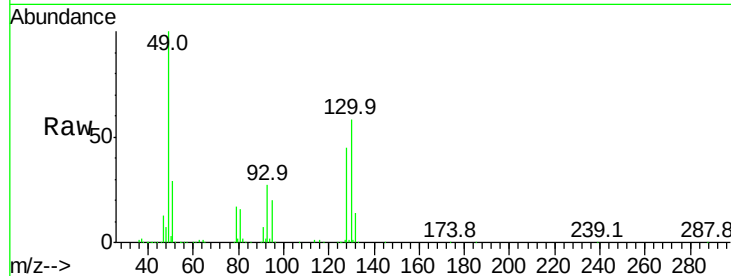
Tgt Ion: 49 Resp: 1245227

Ion Ratio Lower Upper

49 100

128 51.5 24.7 74.1

130 64.8 31.4 94.0



#2

Dichlorodifluoromethane

Concen: 0.14 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL039137.D

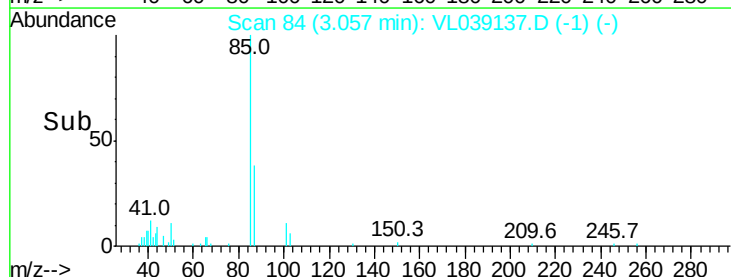
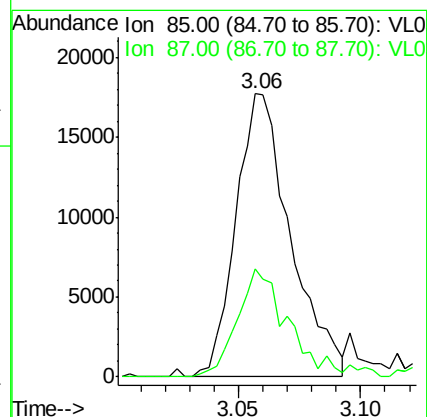
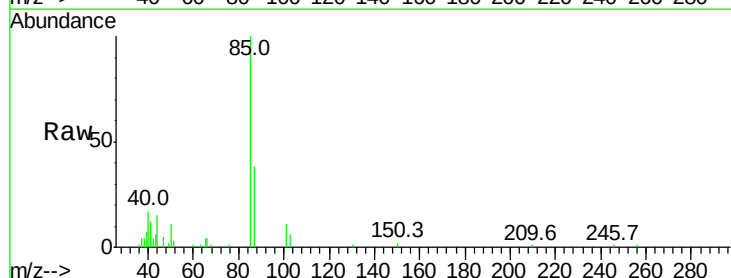
Acq: 31 May 2022 19:02

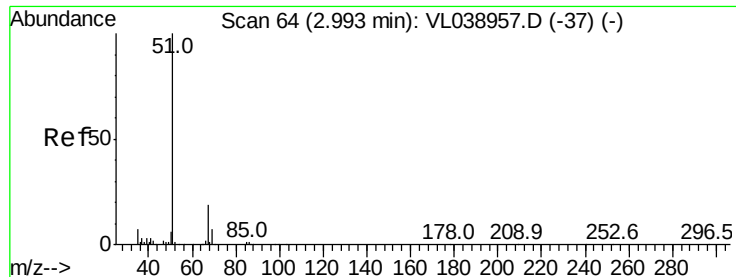
Tgt Ion: 85 Resp: 27461

Ion Ratio Lower Upper

85 100

87 38.4 26.9 40.3





#3

Chlorodifluoromethane

Concen: 0.10 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

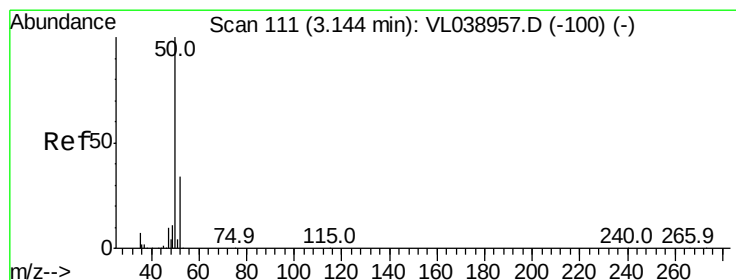
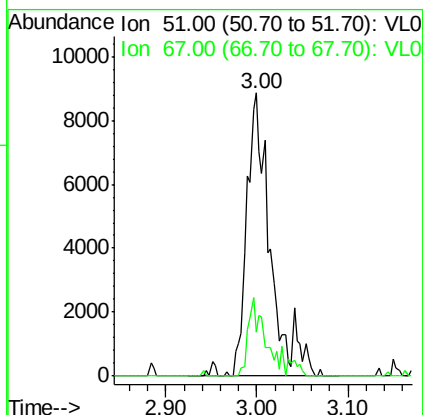
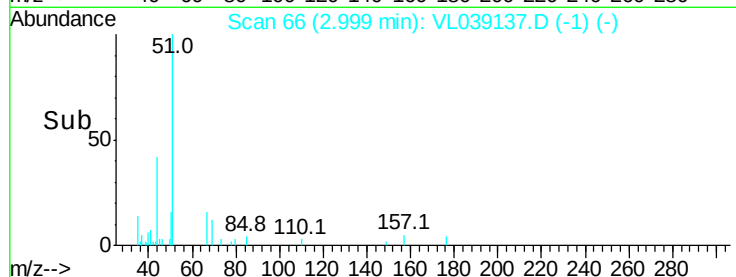
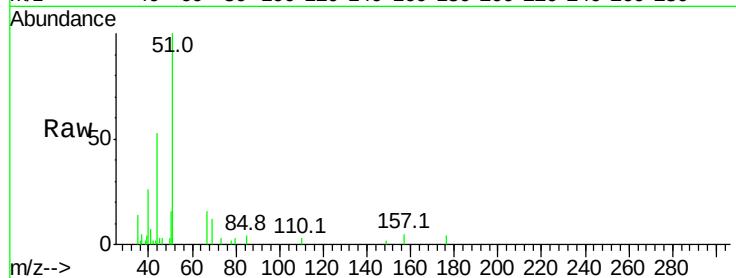
Acq: 31 May 2022 19:02

Tgt Ion: 51 Resp: 15890

Ion Ratio Lower Upper

51 100

67 23.0 16.2 24.4



#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.01 min

Lab File: VL039137.D

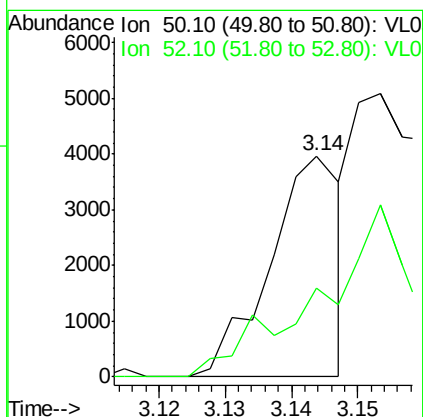
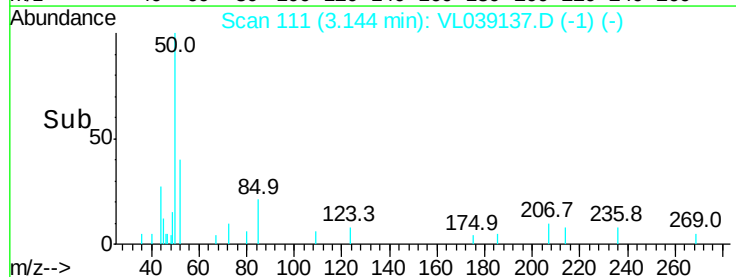
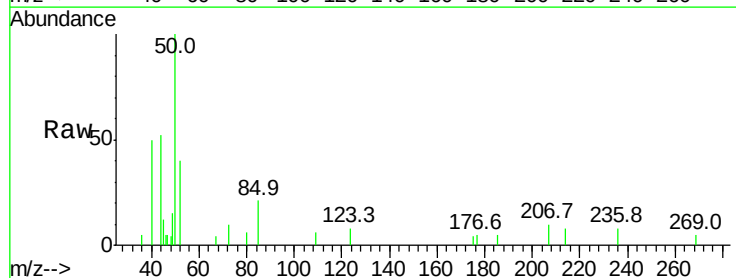
Acq: 31 May 2022 19:02

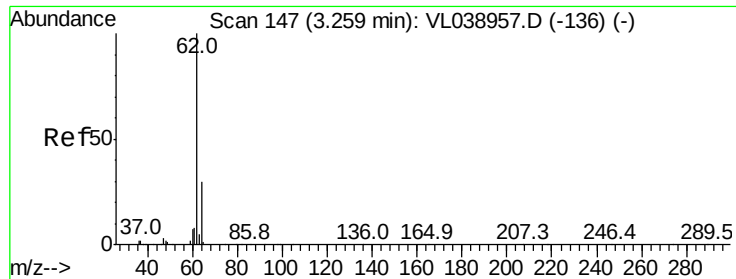
Tgt Ion: 50 Resp: 2989

Ion Ratio Lower Upper

50 100

52 40.0 25.9 38.9#





#5

Vinyl Chloride

Concen: 0.11 ppbv

RT: 3.27 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC0.1

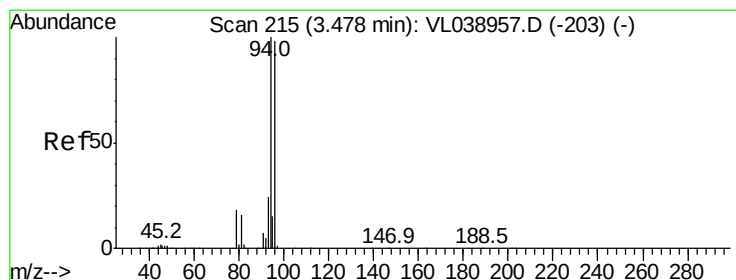
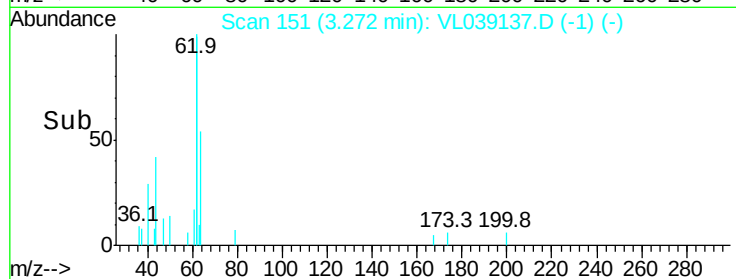
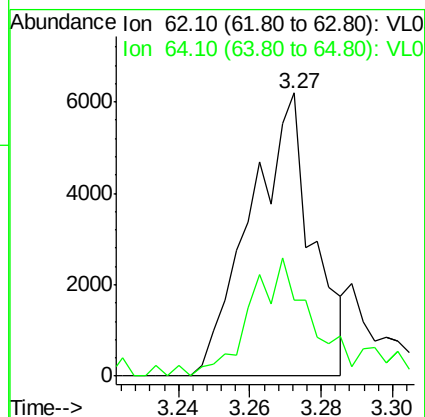
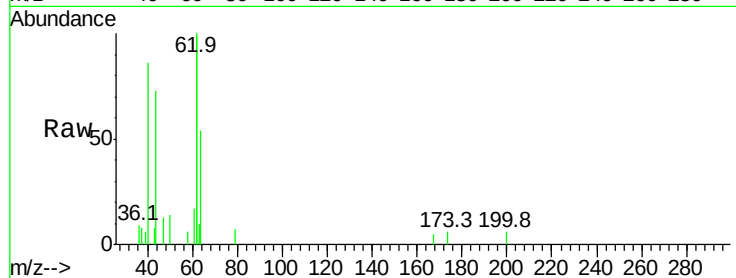
Acq: 31 May 2022 19:02

Tgt Ion: 62 Resp: 7452

Ion Ratio Lower Upper

62 100

64 27.0 24.2 36.2



#6

Bromomethane

Concen: 0.04 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.00 min

Lab File: VL039137.D

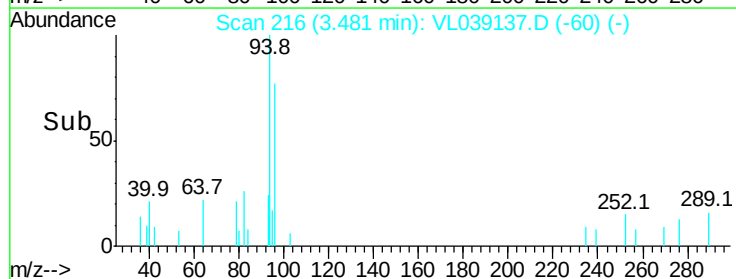
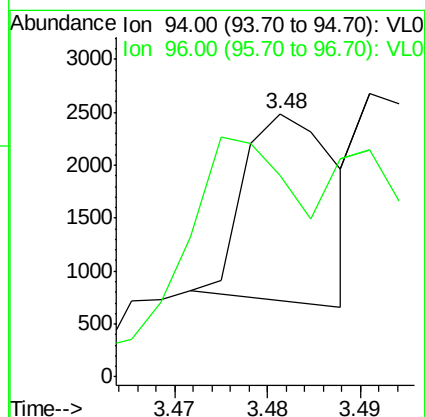
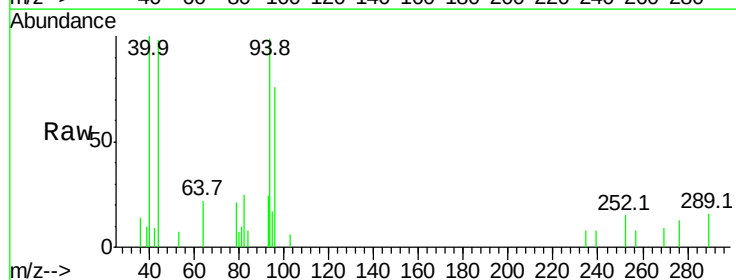
Acq: 31 May 2022 19:02

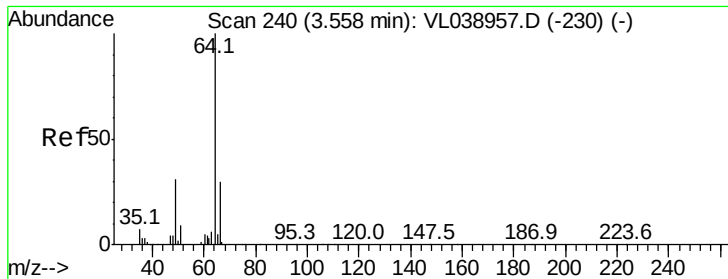
Tgt Ion: 94 Resp: 1199

Ion Ratio Lower Upper

94 100

96 35.0 73.0 109.4#





#7

Chloroethane

Concen: 0.09 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

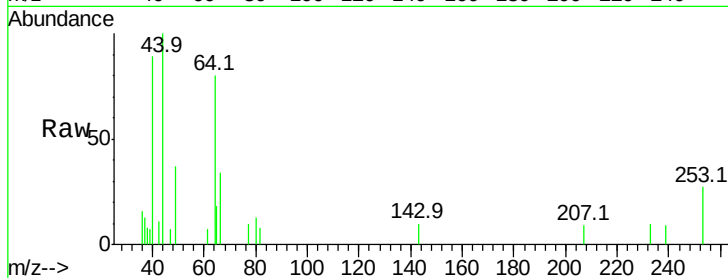
Acq: 31 May 2022 19:02

Tgt Ion: 64 Resp: 2241

Ion Ratio Lower Upper

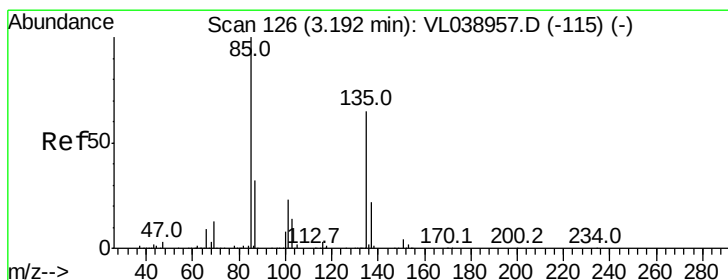
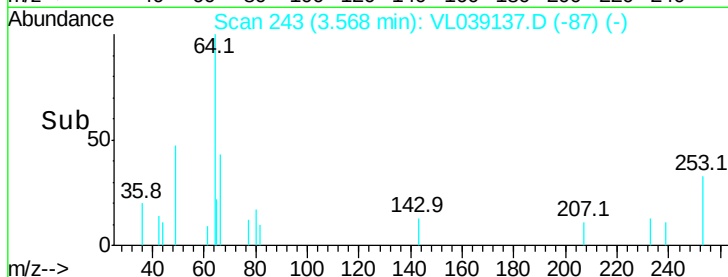
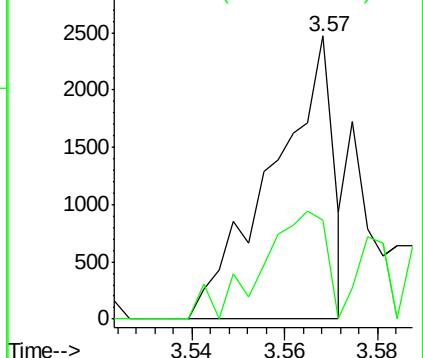
64 100

66 35.2 23.6 35.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.11 ppbv

RT: 3.20 min Scan# 127

Delta R.T. -0.00 min

Lab File: VL039137.D

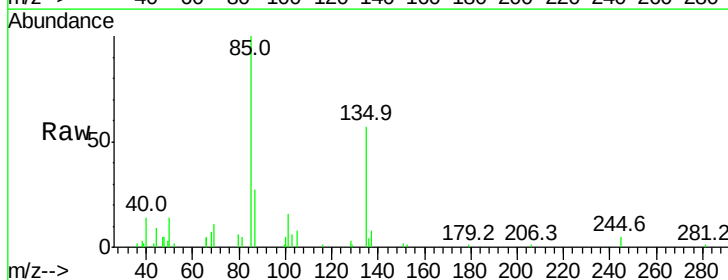
Acq: 31 May 2022 19:02

Tgt Ion: 85 Resp: 19473

Ion Ratio Lower Upper

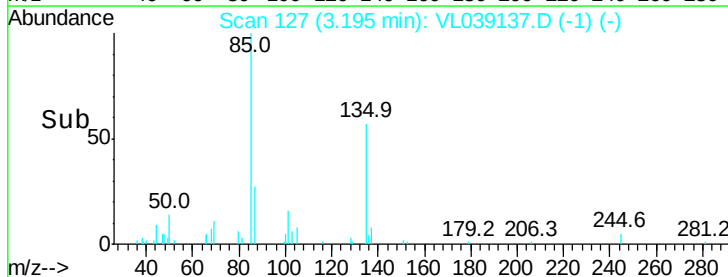
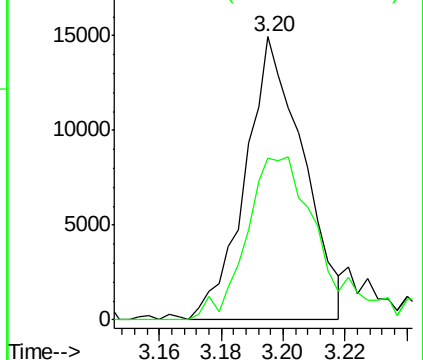
85 100

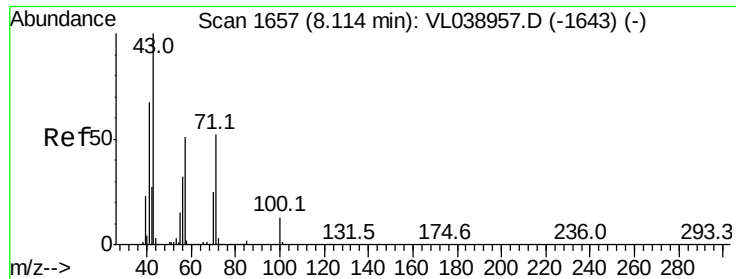
135 77.4 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#10

Heptane

Concen: 0.07 ppbv

RT: 8.13 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

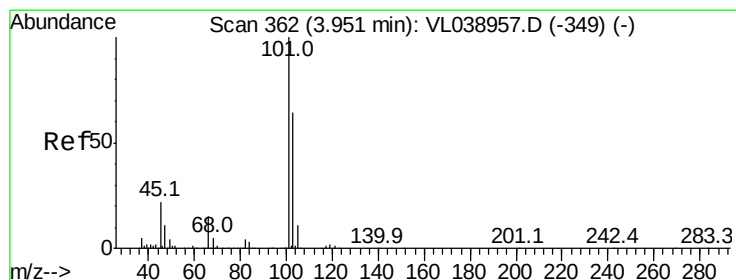
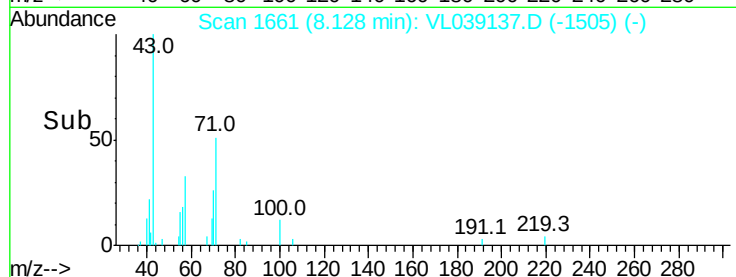
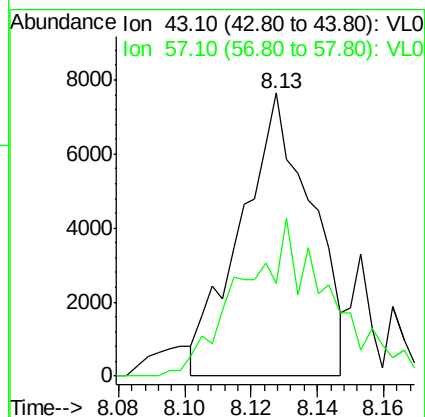
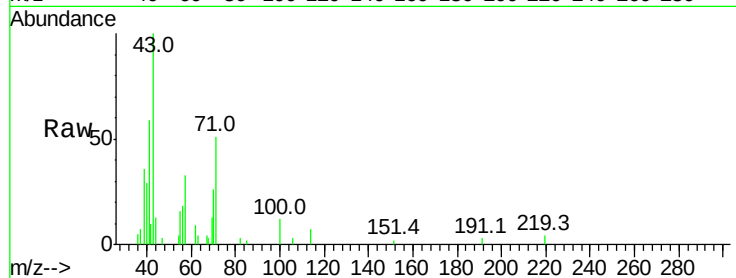
Acq: 31 May 2022 19:02 VSTDIC0.1

Tgt Ion: 43 Resp: 11320

Ion Ratio Lower Upper

43 100

57 72.2 41.4 62.2#



#11

Trichlorofluoromethane

Concen: 0.12 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL039137.D

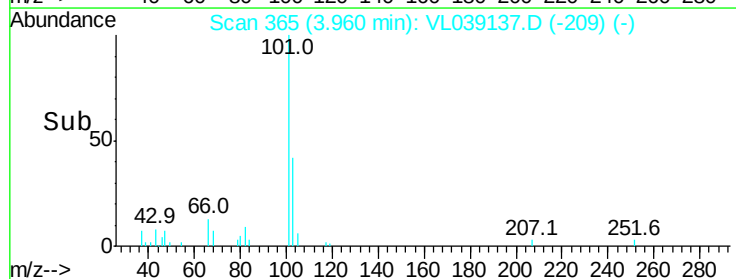
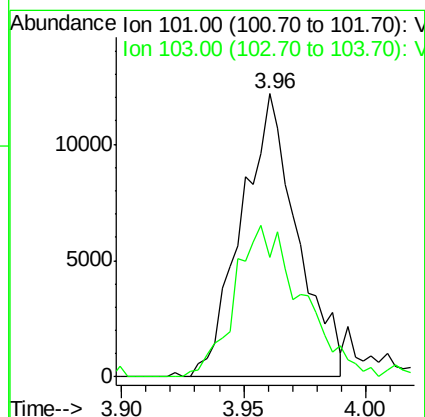
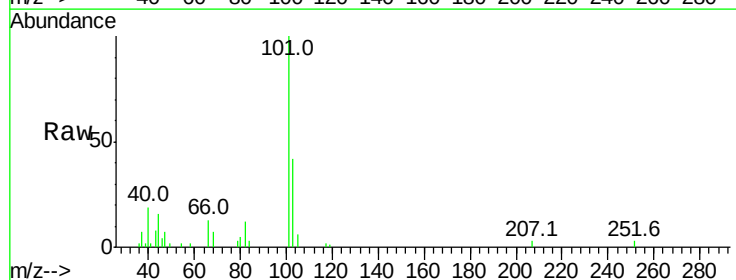
Acq: 31 May 2022 19:02

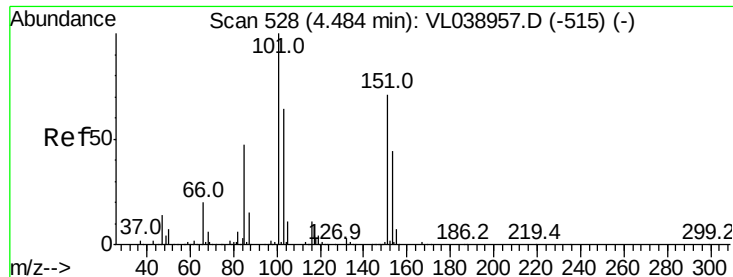
Tgt Ion: 101 Resp: 19361

Ion Ratio Lower Upper

101 100

103 40.2 51.7 77.5#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.08 ppbv

RT: 4.49 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

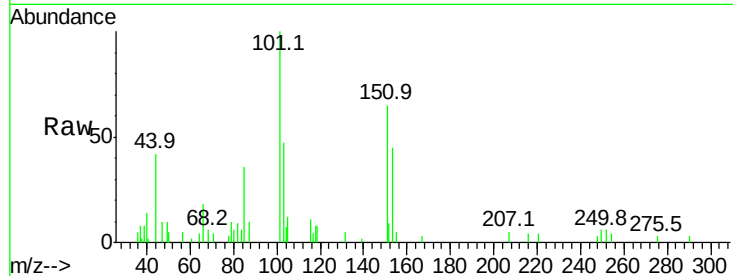
Acq: 31 May 2022 19:02 VSTDIC0.1

Tgt Ion: 101 Resp: 9362

Ion Ratio Lower Upper

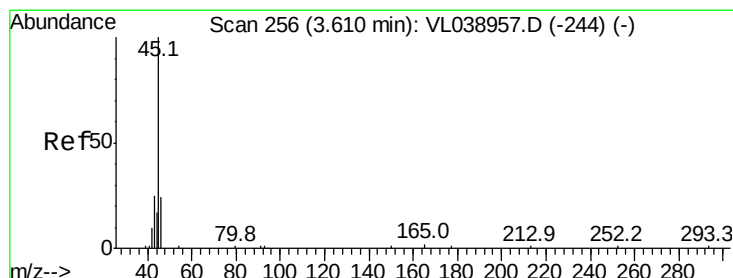
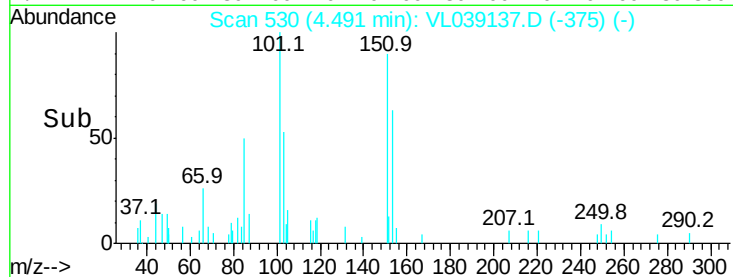
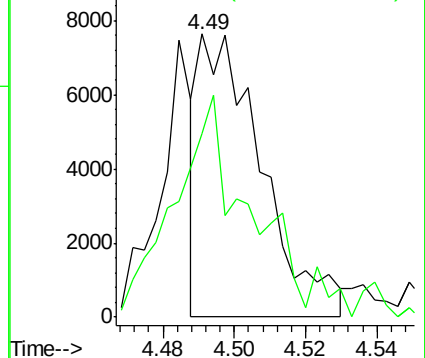
101 100

151 103.7 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.07 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL039137.D

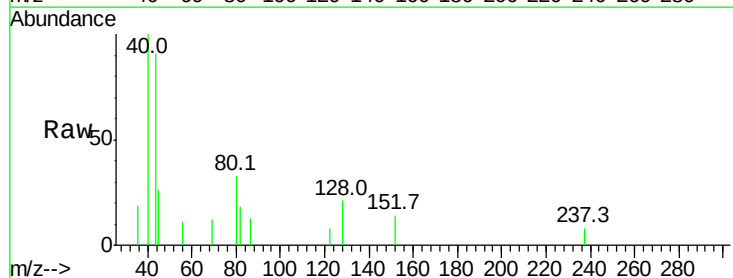
Acq: 31 May 2022 19:02

Tgt Ion: 45 Resp: 348

Ion Ratio Lower Upper

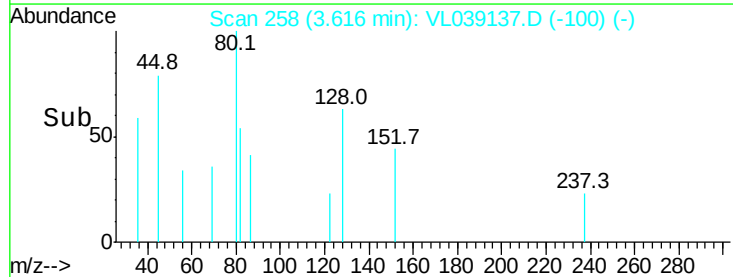
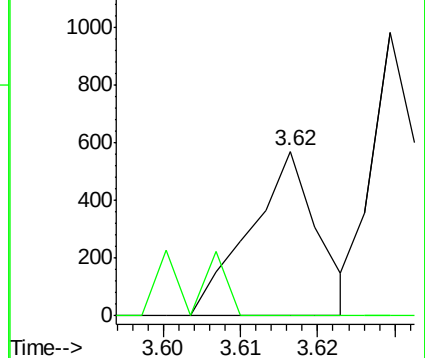
45 100

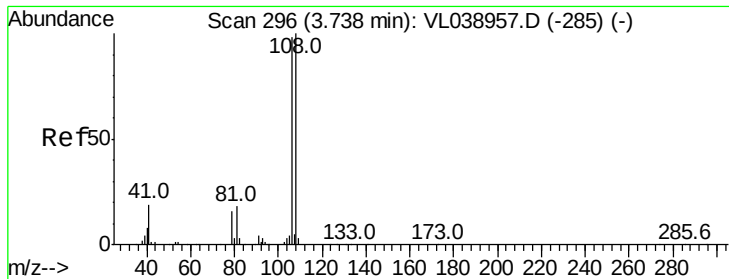
46 40.5 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.07 ppbv

RT: 3.75 Instrument:

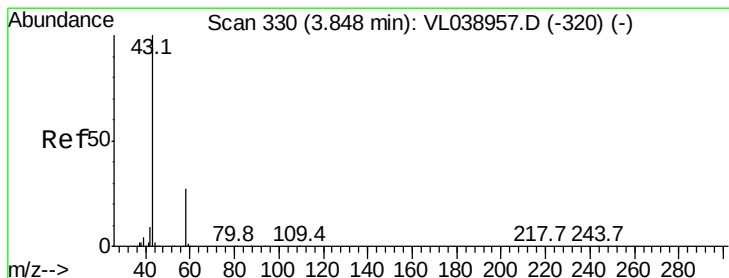
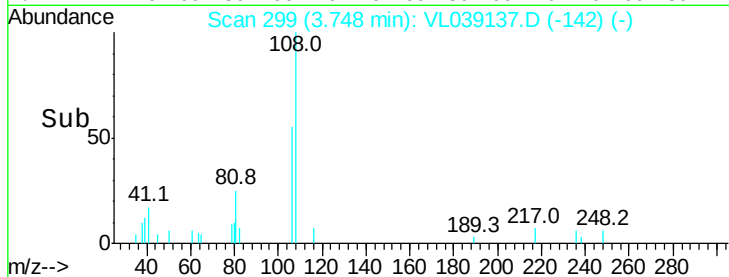
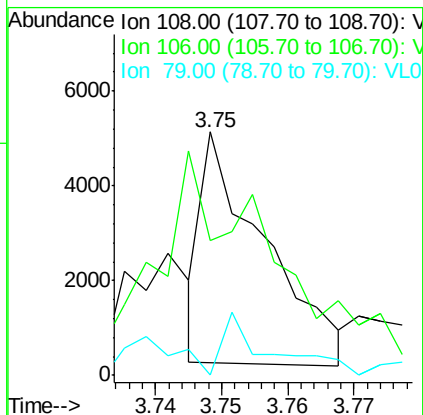
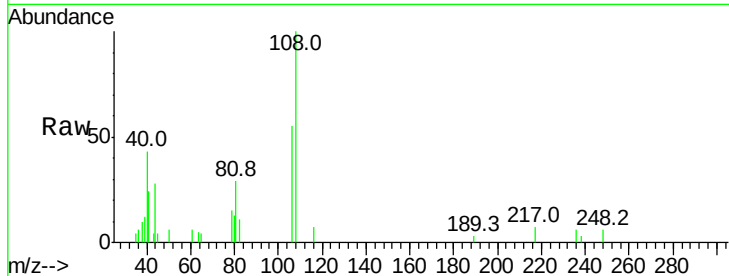
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

Tgt Ion: 108 Resp: 3244

Ion	Ratio	Lower	Upper
108	100		
106	0.0	88.4	132.6#
79	53.3	13.4	20.2#



#15

Acetone

Concen: 0.03 ppbv

RT: 3.88 min Scan# 341

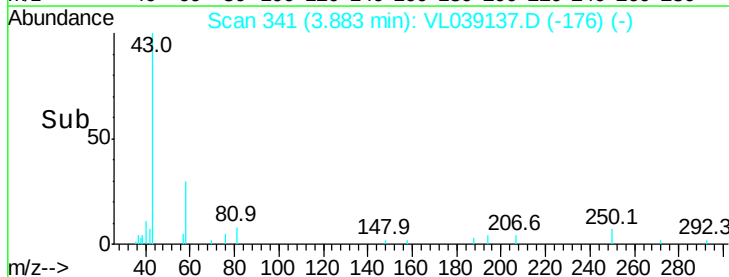
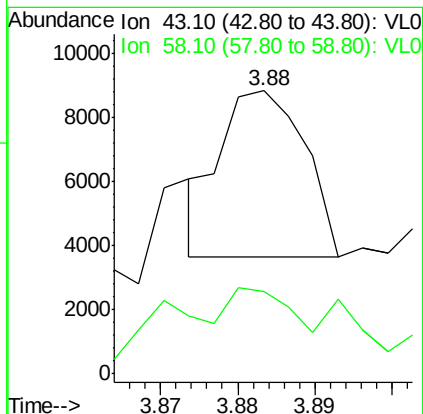
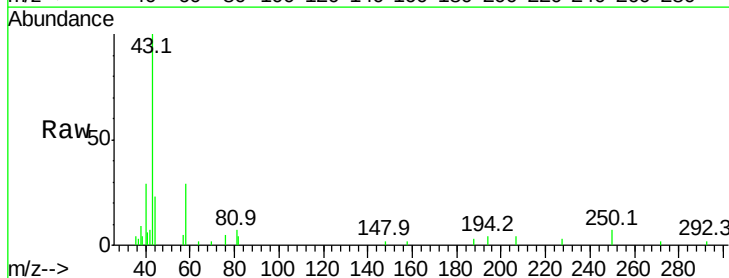
Delta R.T. 0.03 min

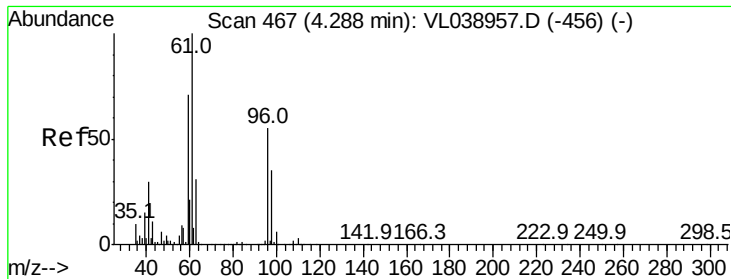
Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion: 43 Resp: 3906

Ion	Ratio	Lower	Upper
43	100		
58	131.3	22.5	33.7#





#18

1,1-Dichloroethene

Concen: 0.06 ppbv

RT: 4.29

Instrument: MSVOA_1

Delta R.T.

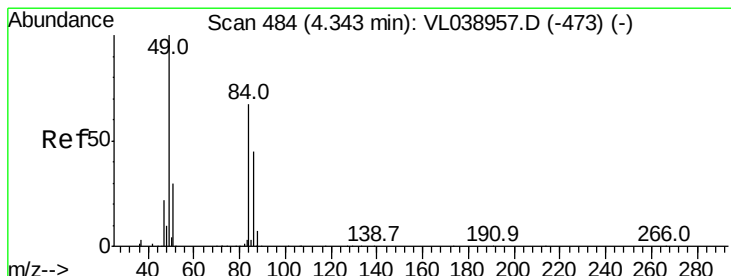
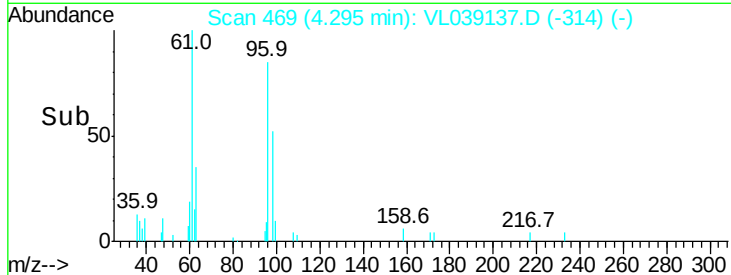
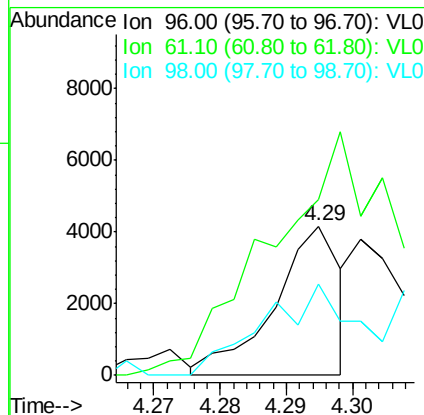
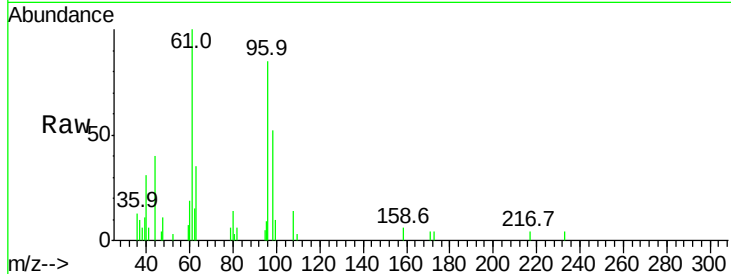
Client Sample Id:

Lab File: VSTDIC01

Acq: 31 May 2022 19:02

Tgt Ion: 96 Resp: 2889

Ion	Ratio	Lower	Upper
96	100		
61	112.6	138.4	207.6#
98	64.1	47.8	71.8



#20

Methylene Chloride

Concen: 0.13 ppbv

RT: 4.35 min Scan# 486

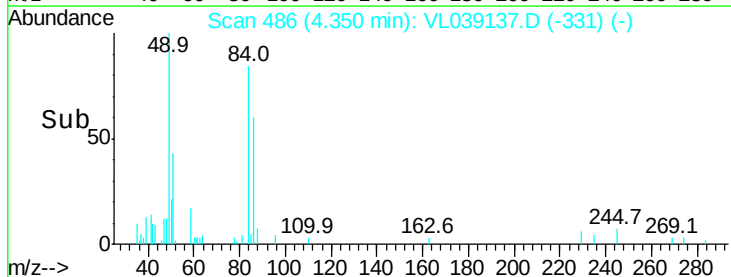
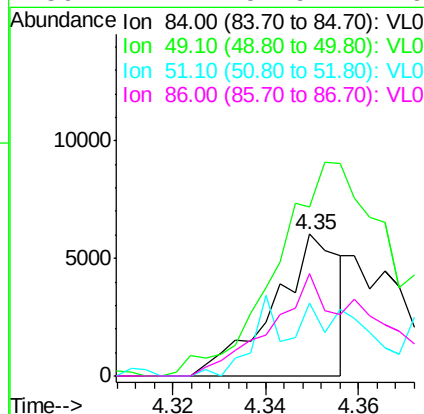
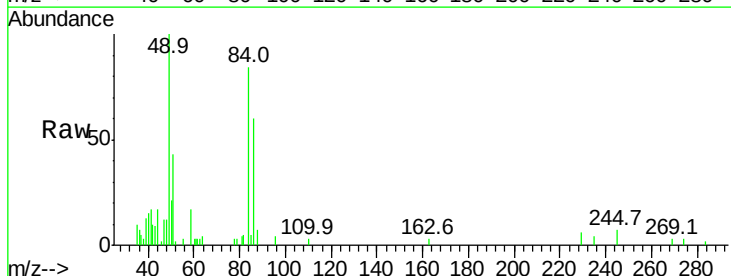
Delta R.T. -0.00 min

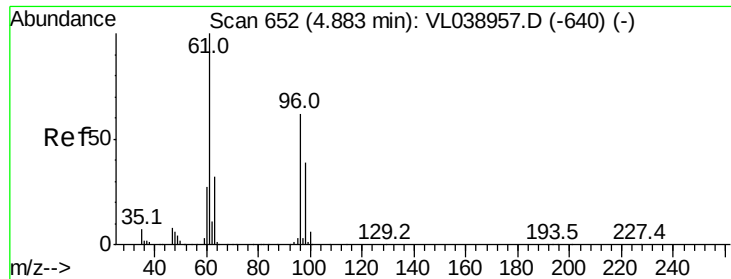
Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion: 84 Resp: 5916

Ion	Ratio	Lower	Upper
84	100		
49	102.5	111.1	166.7#
51	51.7	35.3	52.9
86	72.1	51.9	77.9





#22

trans-1,2-Dichloroethene

Concen: 0.04 ppbv

RT: 4.89 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02 VSTDIC0.1

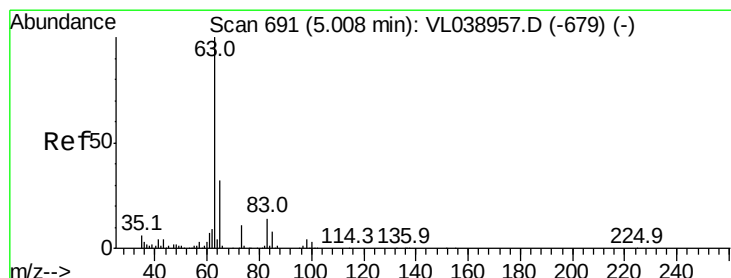
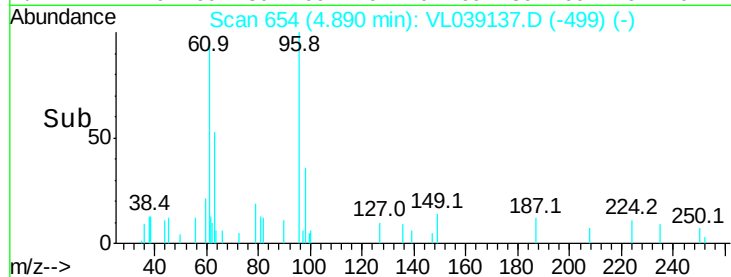
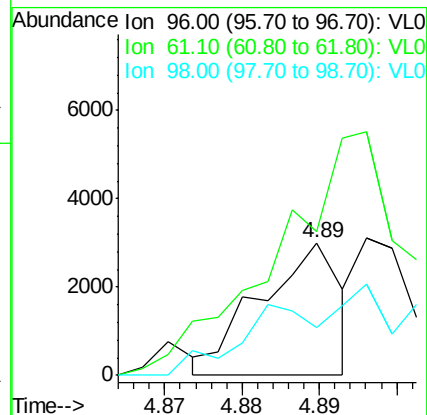
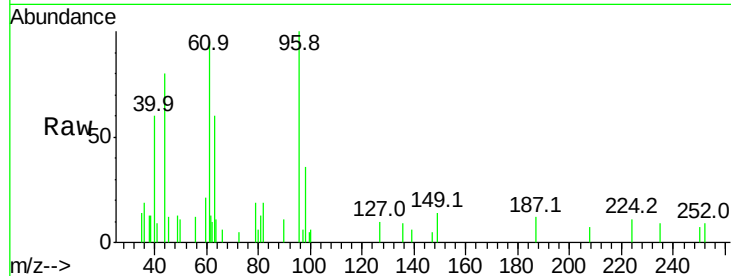
Tgt Ion: 96 Resp: 2161

Ion Ratio Lower Upper

96 100

61 79.2 126.6 190.0#

98 20.2 52.5 78.7#



#24

1,1-Dichloroethane

Concen: 0.05 ppbv

RT: 5.02 min Scan# 695

Delta R.T. 0.00 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

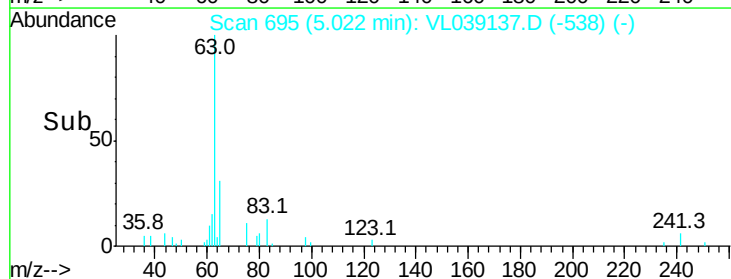
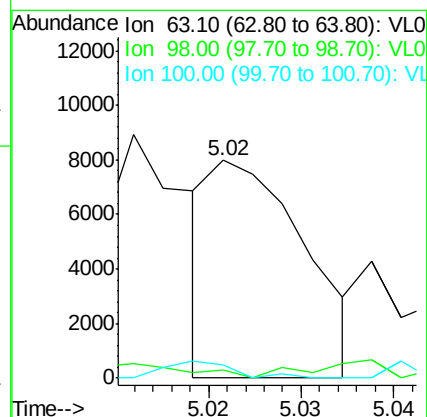
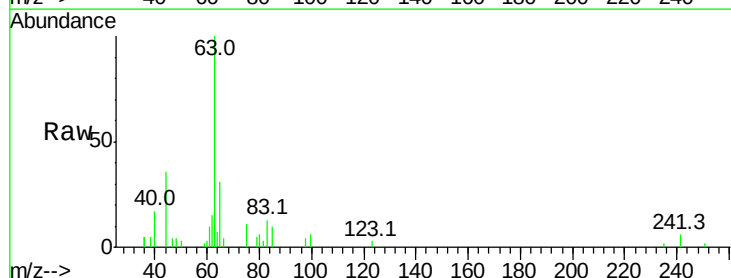
Tgt Ion: 63 Resp: 5630

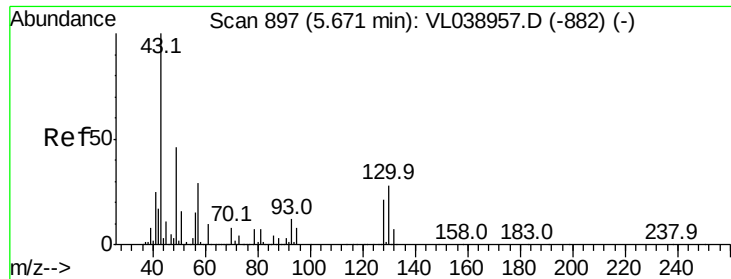
Ion Ratio Lower Upper

63 100

98 2.5 2.1 6.2

100 3.9 1.5 4.5





#25

Ethyl Acetate

Concen: 0.05 ppbv

RT: 5.69 Instrument:

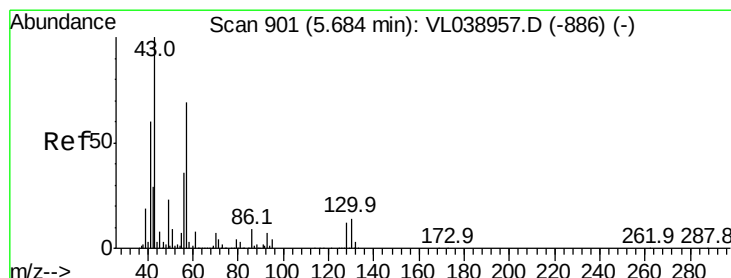
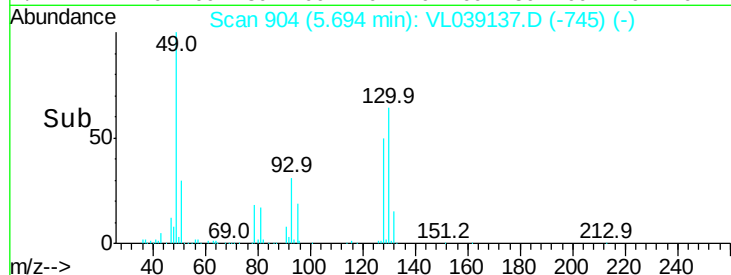
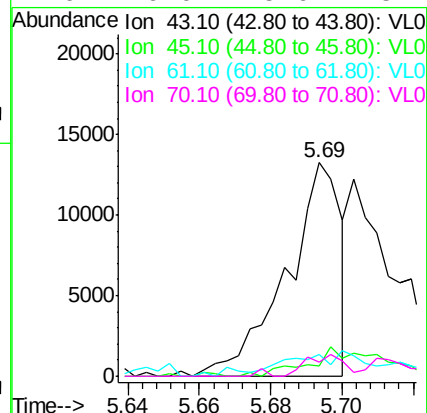
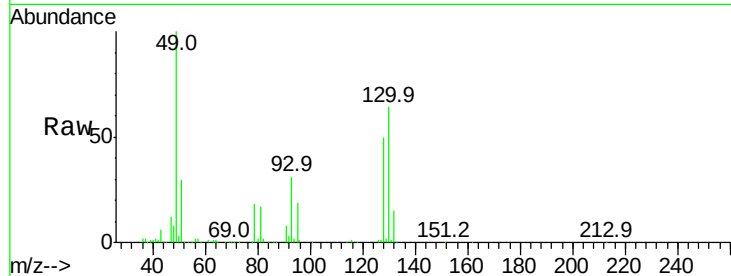
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

Tgt Ion: 43 Resp: 13967

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.0	8.4	12.6#
70	0.0	5.6	8.4#



#26

Hexane

Concen: 0.05 ppbv

RT: 5.69 min Scan# 902

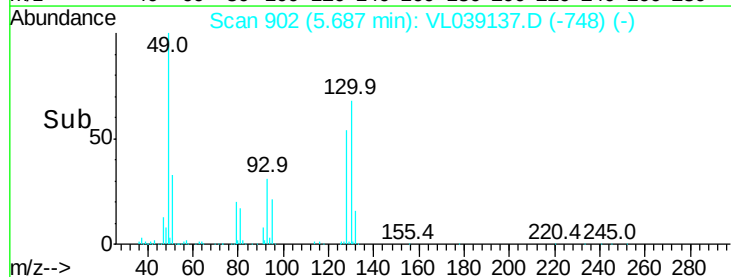
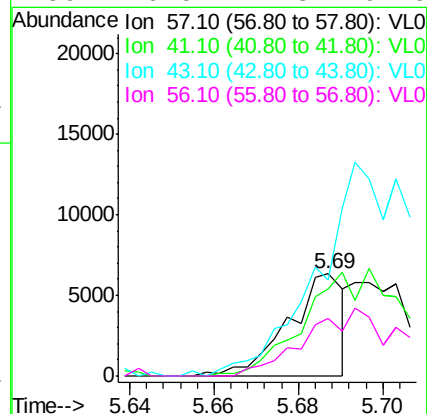
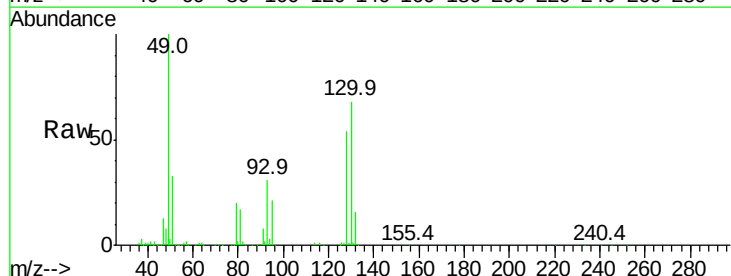
Delta R.T. -0.01 min

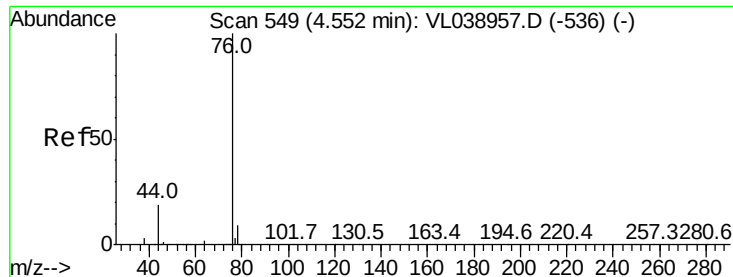
Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion: 57 Resp: 5790

Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.4	108.6#
43	0.0	187.0	280.6#
56	0.0	41.8	62.6#





#27

Carbon Disulfide

Concen: 0.03 ppbv

RT: 4.56

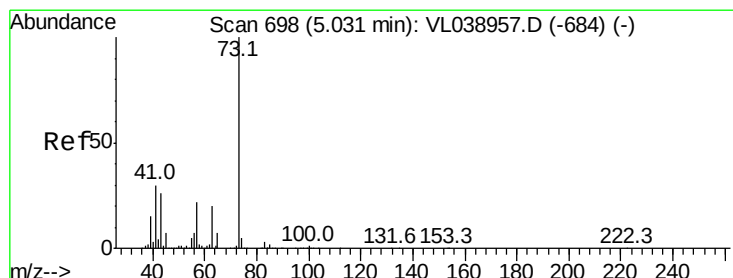
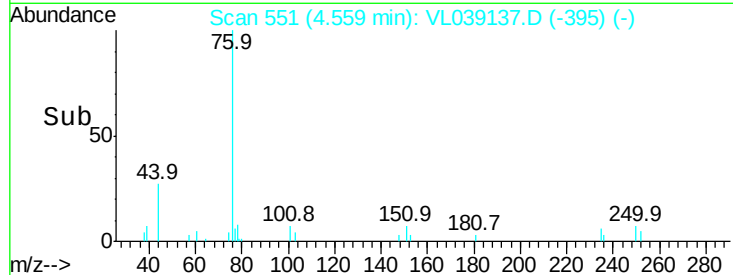
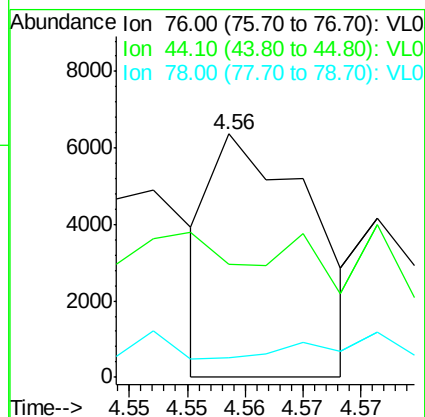
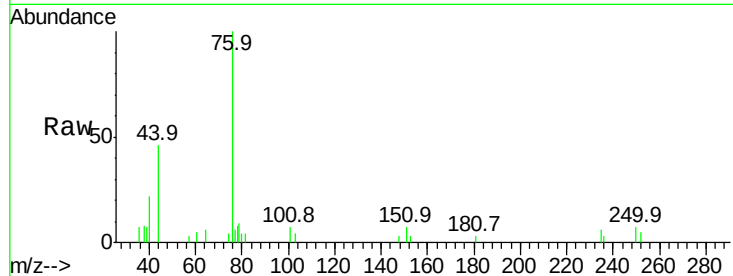
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

Tgt Ion: 76 Resp: 3787

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.4	21.6#
78	0.0	7.7	11.5#



#28

Methyl tert-Butyl Ether

Concen: 0.05 ppbv

RT: 5.05 min Scan# 705

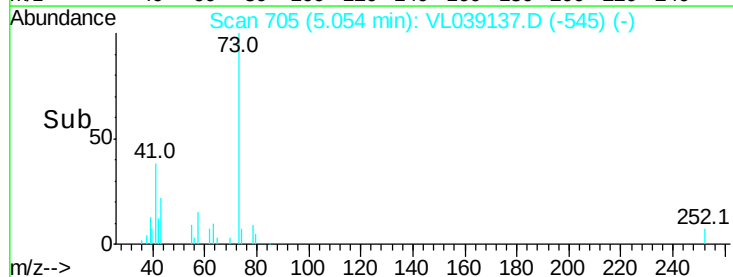
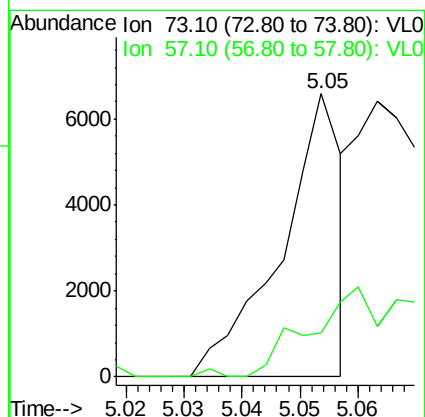
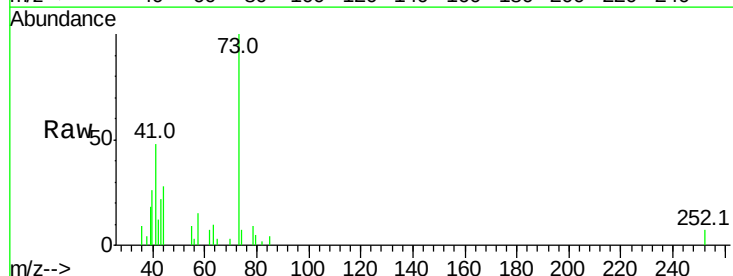
Delta R.T. 0.01 min

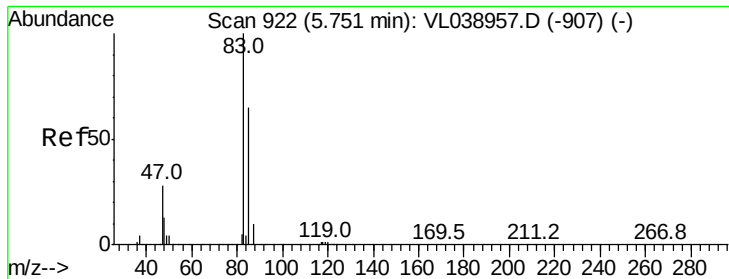
Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion: 73 Resp: 4801

Ion	Ratio	Lower	Upper
73	100		
57	0.0	18.6	27.8#





#29

Chloroform

Concen: 0.06 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

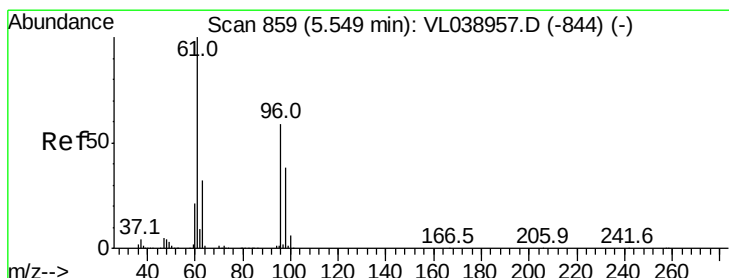
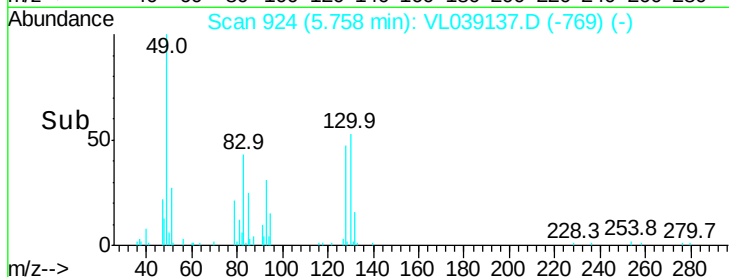
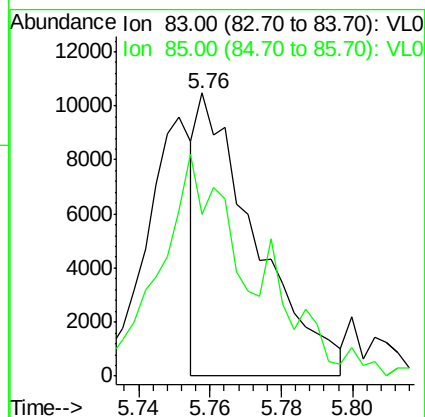
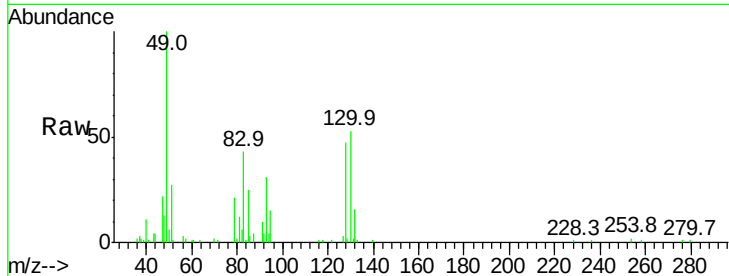
Acq: 31 May 2022 19:02

Tgt Ion: 83 Resp: 11775

Ion Ratio Lower Upper

83 100

85 58.5 52.4 78.6



#31

cis-1,2-Dichloroethene

Concen: 0.05 ppbv

RT: 5.55 min Scan# 860

Delta R.T. -0.00 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

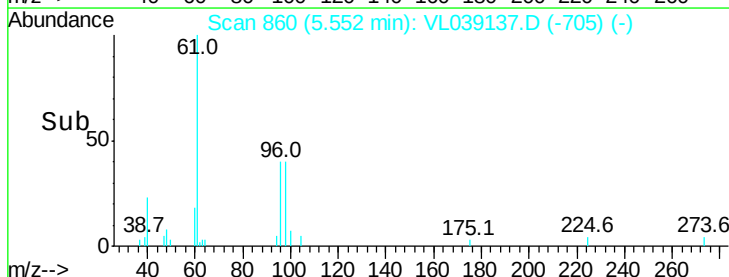
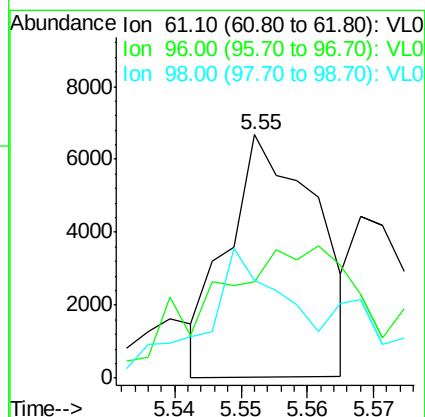
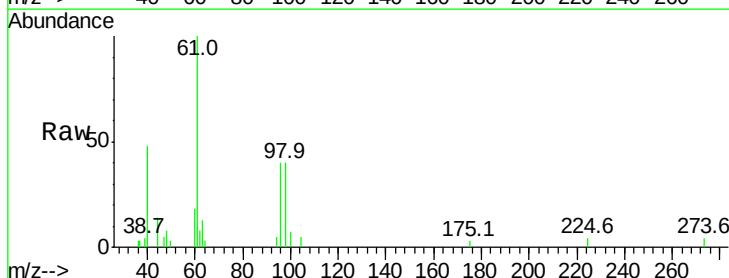
Tgt Ion: 61 Resp: 6191

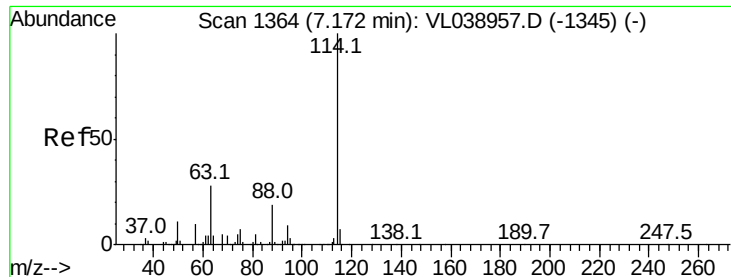
Ion Ratio Lower Upper

61 100

96 28.2 49.9 74.9#

98 30.2 32.0 48.0#

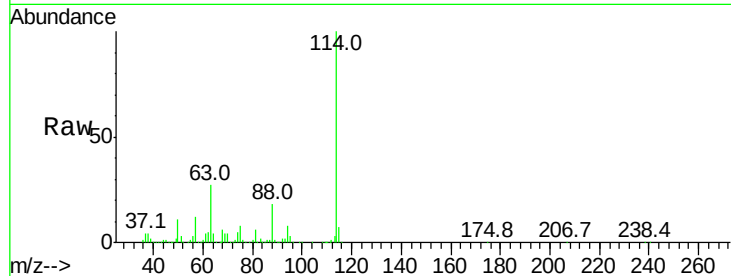




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VSTDIC0.1
 Acq: 31 May 2022 19:02

Tgt Ion: 114 Resp: 3165790

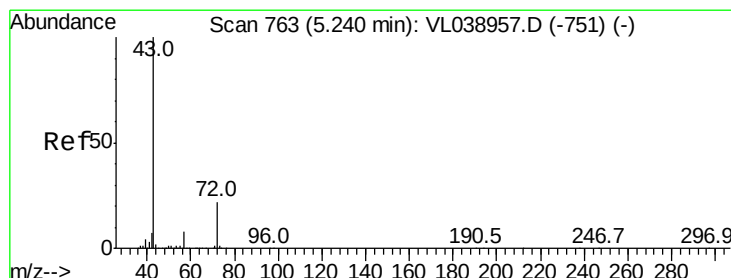
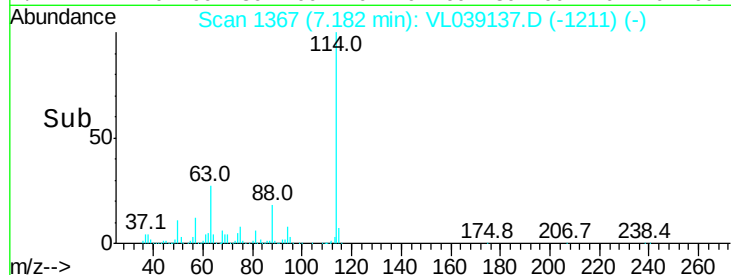
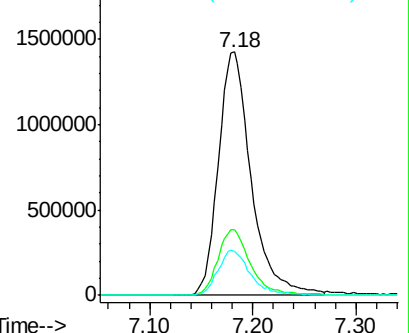
Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.7	32.5
88	18.8	14.8	22.2



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

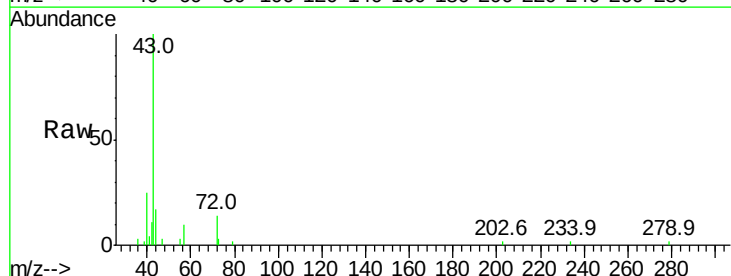
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 0.04 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T.: 0.02 min
 Lab File: VL039137.D
 Acq: 31 May 2022 19:02

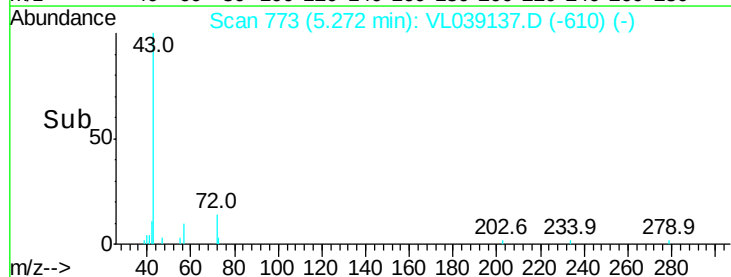
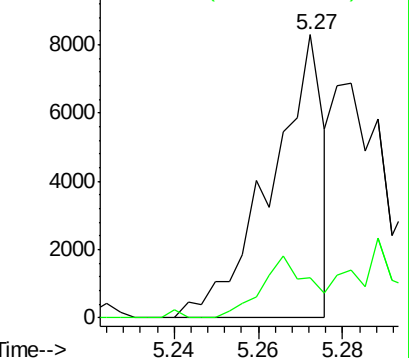
Tgt Ion: 43 Resp: 7177

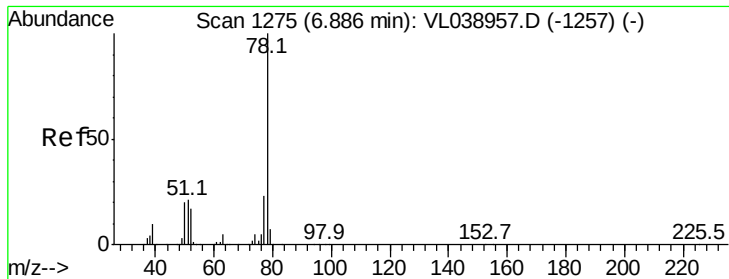
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.04 ppbv

RT: 6.89 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: VSTDIC0.1

Acq: 31 May 2022 19:02

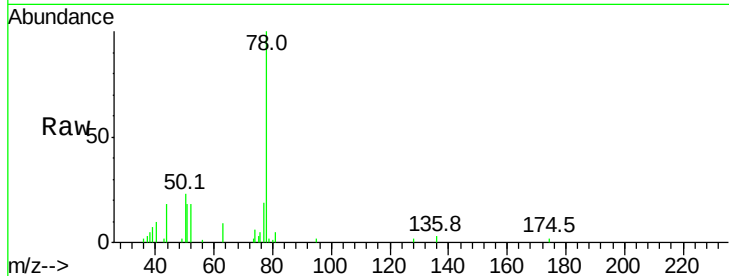
Tgt Ion: 78 Resp: 9584

Ion Ratio Lower Upper

78 100

77 0.0 18.6 27.8#

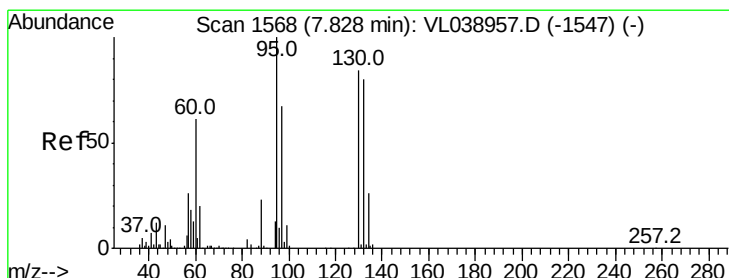
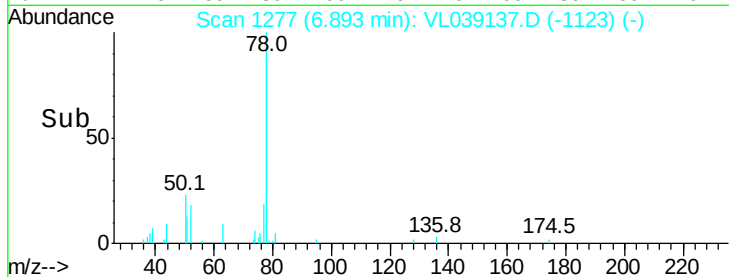
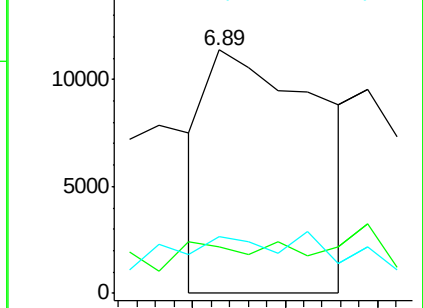
50 31.3 15.8 23.8#



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



#38

Trichloroethene

Concen: 0.04 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion: 130 Resp: 4670

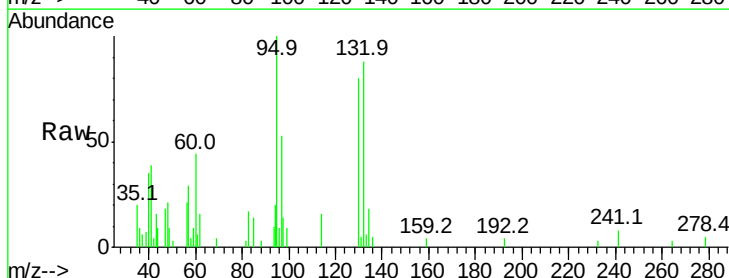
Ion Ratio Lower Upper

130 100

95 114.6 93.3 139.9

132 93.5 79.0 118.4

97 61.6 59.4 89.2

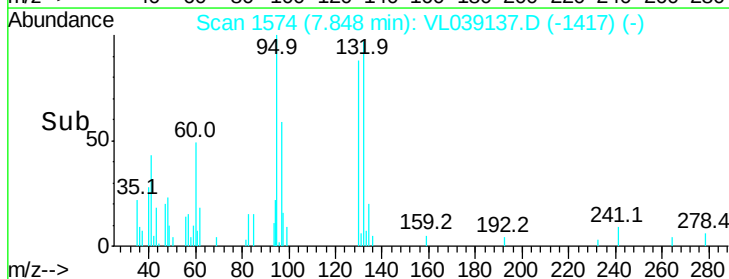
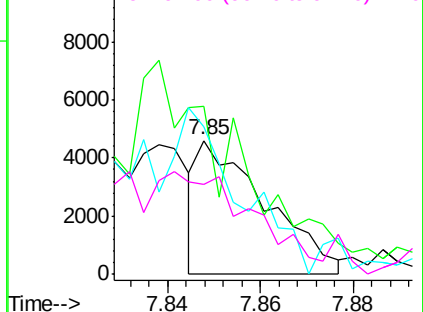


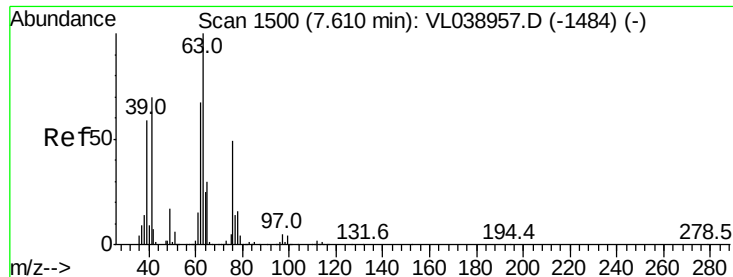
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 7.96 ppbv

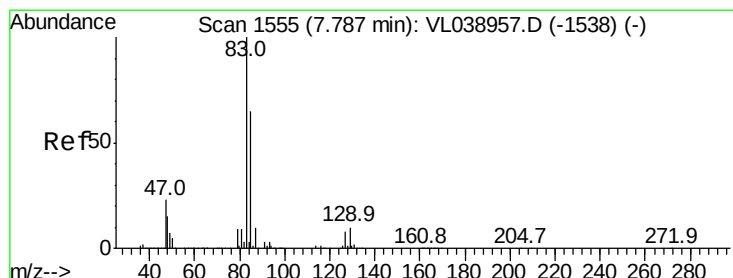
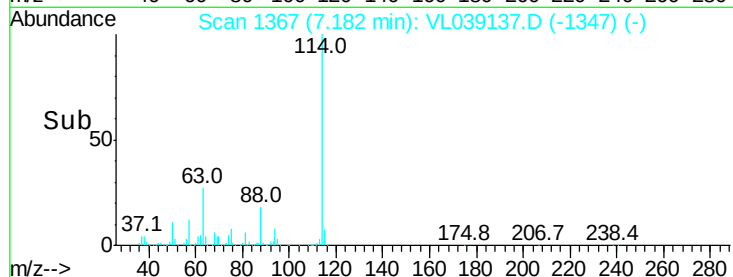
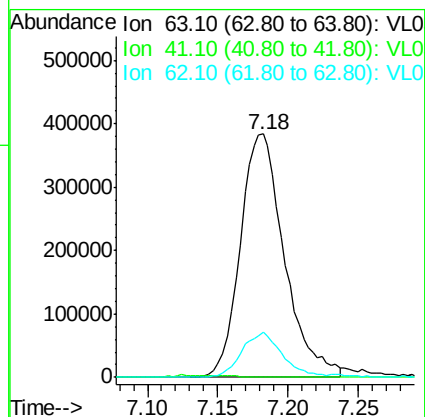
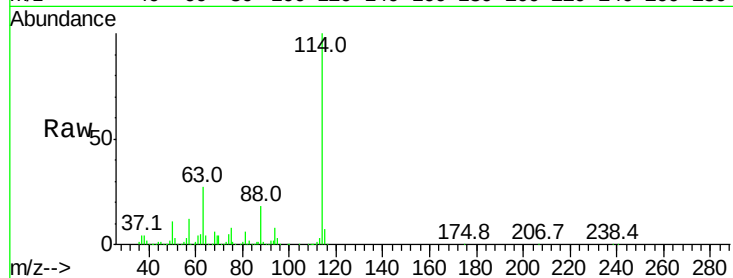
RT: 7.18

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

Tgt Ion:	63	Resp:	838692
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	18.4	52.9	79.3#



#42

Bromodichloromethane

Concen: 0.07 ppbv

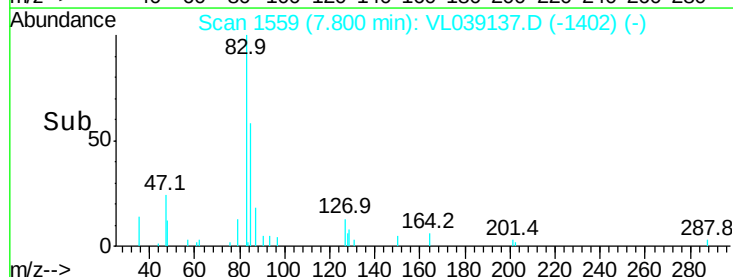
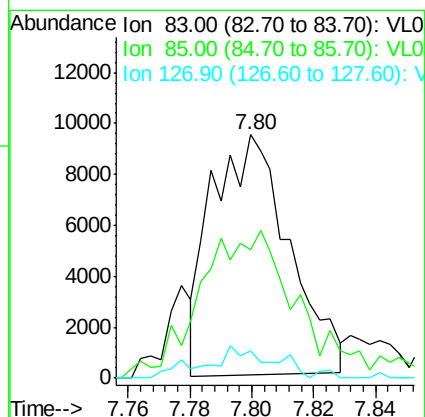
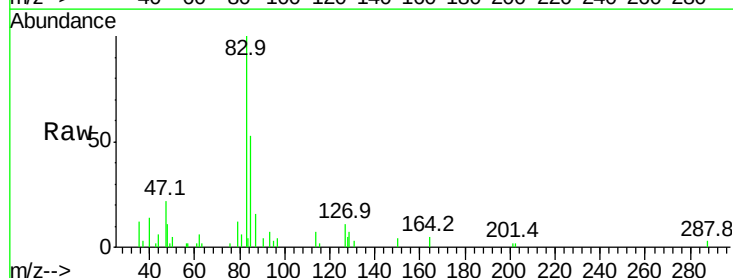
RT: 7.80 min Scan# 1559

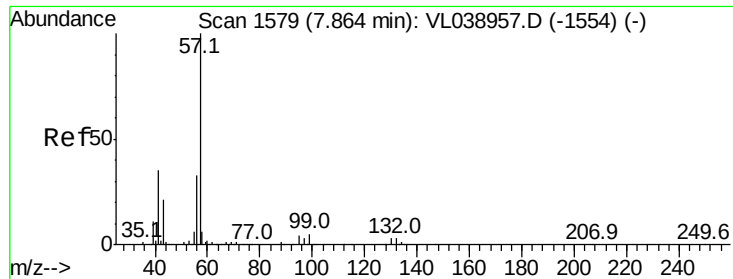
Delta R.T. 0.00 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion:	83	Resp:	16387
Ion Ratio	Lower	Upper	
83	100		
85	49.0	50.2	75.4#
127	13.3	6.6	9.8#





#44

2,2,4-Trimethylpentane

Concen: 0.05 ppbv

RT: 7.88 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02 VSTDIC0.1

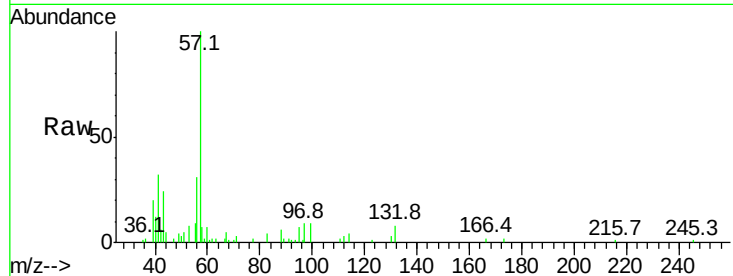
Tgt Ion: 57 Resp: 24829

Ion Ratio Lower Upper

57 100

41 64.9 26.2 39.4#

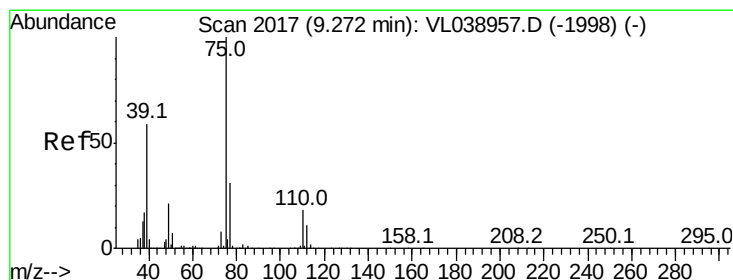
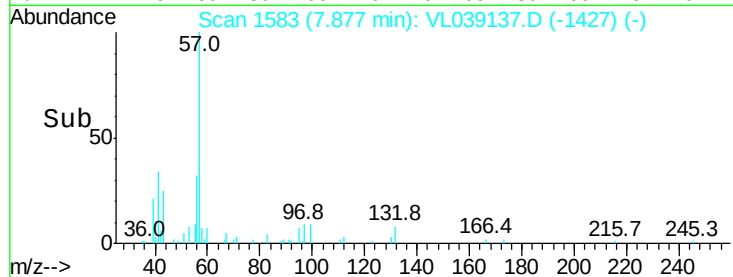
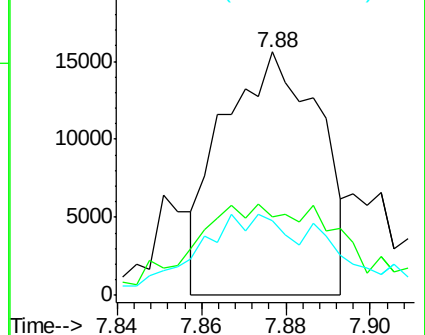
56 51.7 24.7 37.1#



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



#45

t-1,3-Dichloropropene

Concen: 0.03 ppbv

RT: 9.29 min Scan# 2022

Delta R.T. 0.00 min

Lab File: VL039137.D

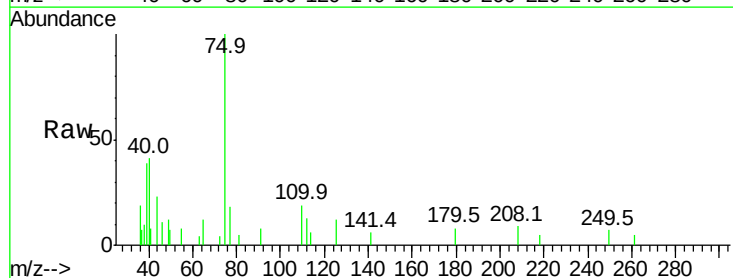
Acq: 31 May 2022 19:02

Tgt Ion: 75 Resp: 3273

Ion Ratio Lower Upper

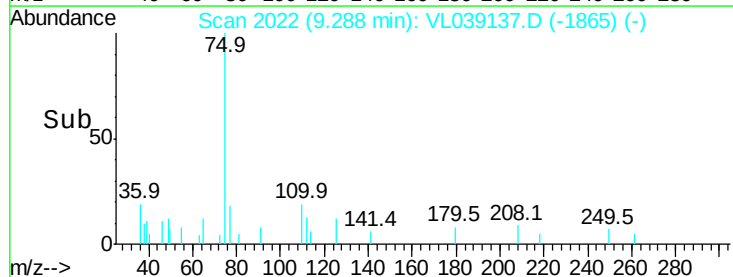
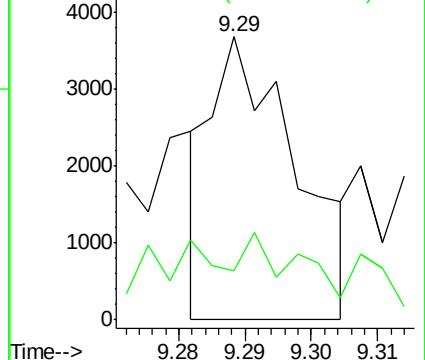
75 100

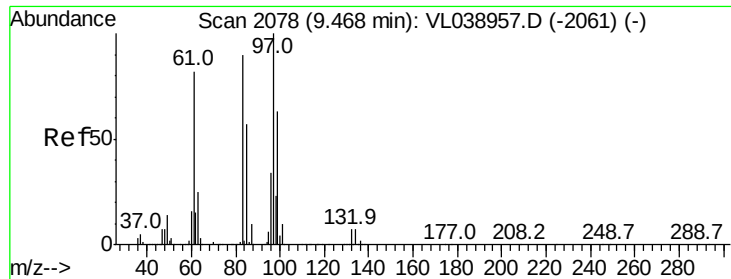
77 17.5 24.4 36.6#



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#47

1,1,2-Trichloroethane

Concen: 0.04 ppbv

RT: 9.48 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

Tgt Ion: 97 Resp: 4406

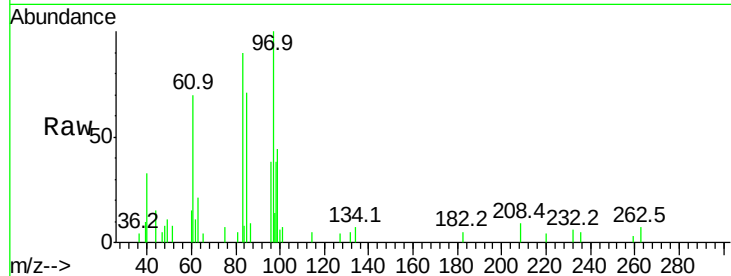
Ion Ratio Lower Upper

97 100

83 37.4 71.6 107.4#

85 61.8 44.8 67.2

99 15.3 49.0 73.4#

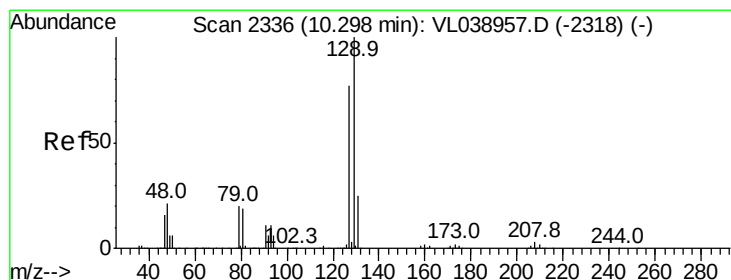
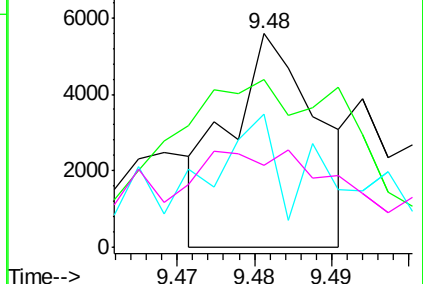
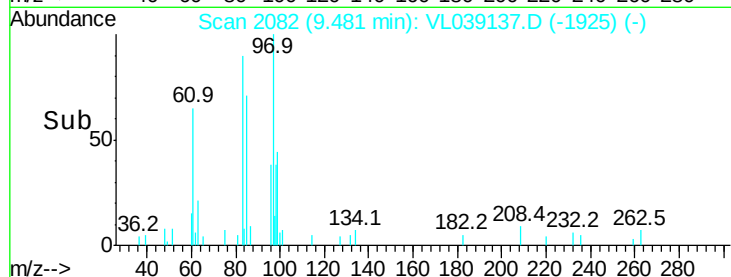


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.04 ppbv

RT: 10.31 min Scan# 2339

Delta R.T. 0.00 min

Lab File: VL039137.D

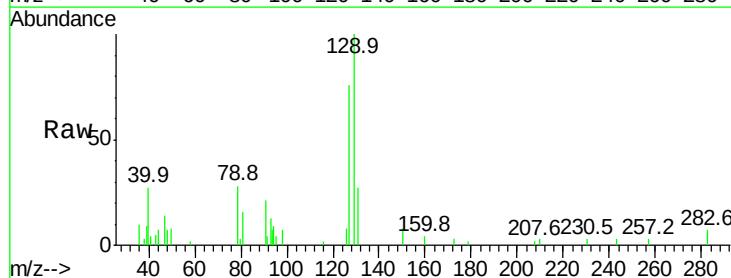
Acq: 31 May 2022 19:02

Tgt Ion: 129 Resp: 8002

Ion Ratio Lower Upper

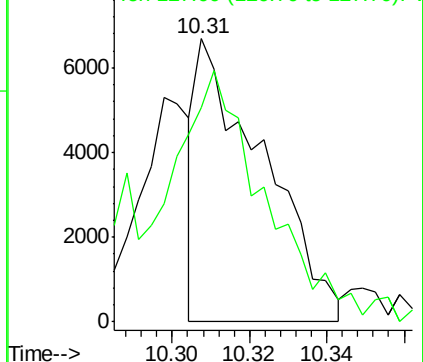
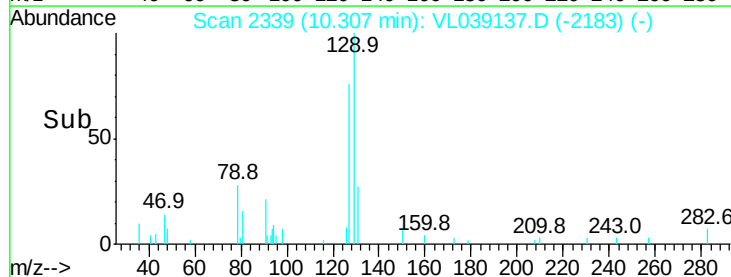
129 100

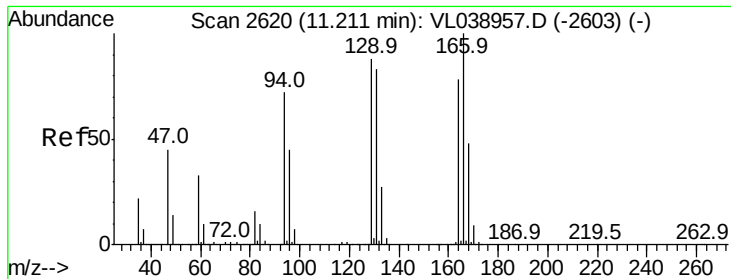
127 146.4 40.0 119.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Tetrachloroethene

Concen: 0.04 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

Tgt Ion: 164 Resp: 4326

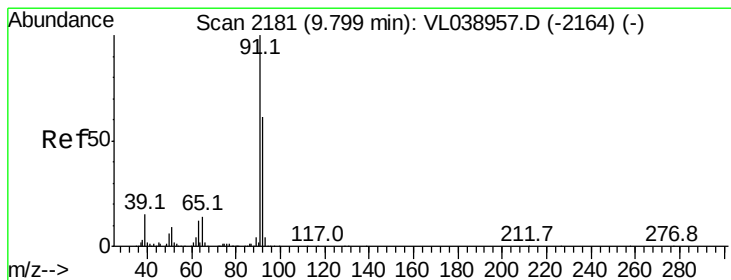
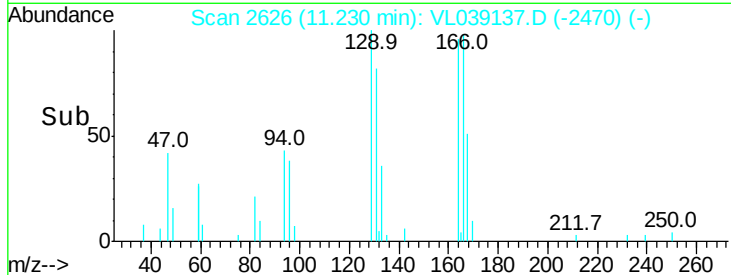
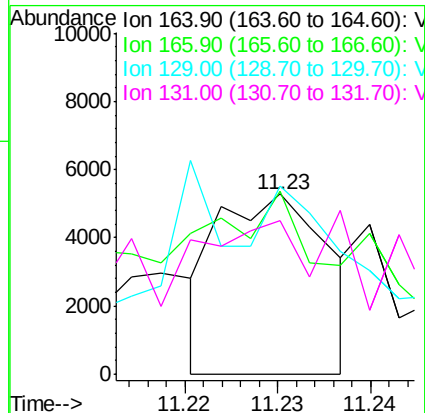
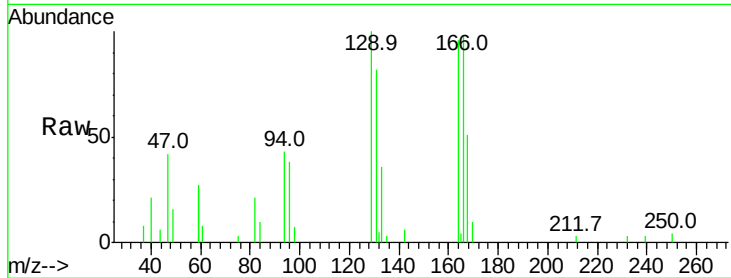
Ion Ratio Lower Upper

164 100

166 88.5 96.3 144.5#

129 75.8 82.5 123.7#

131 22.6 82.1 123.1#



#53

Toluene

Concen: 0.03 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL039137.D

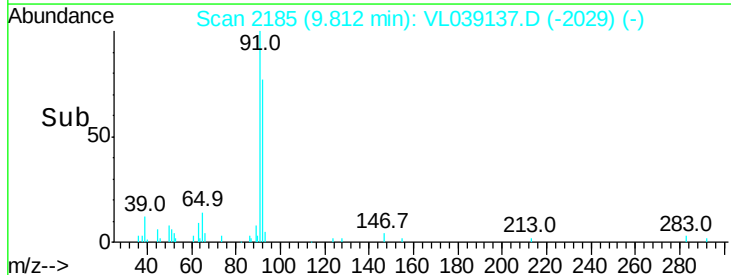
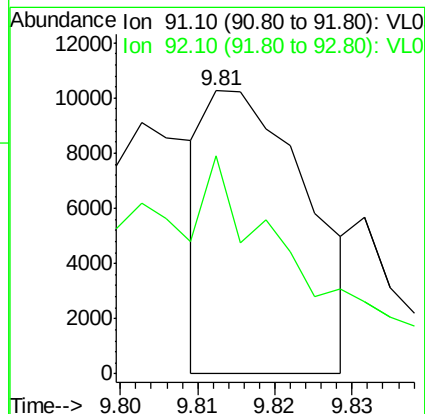
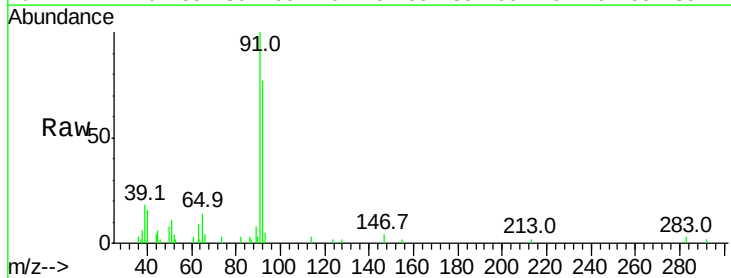
Acq: 31 May 2022 19:02

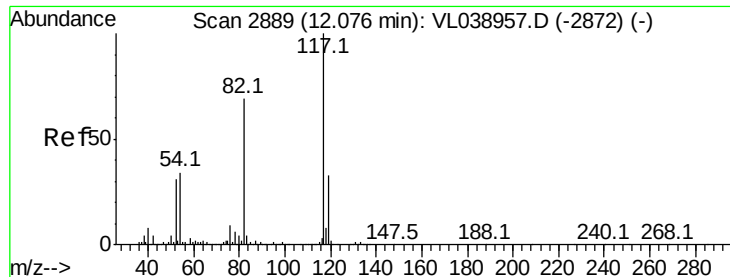
Tgt Ion: 91 Resp: 9346

Ion Ratio Lower Upper

91 100

92 159.7 48.1 72.1#

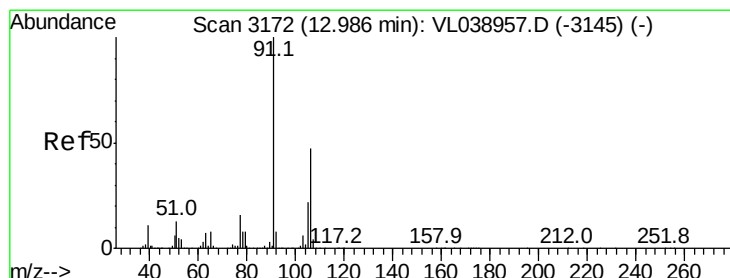
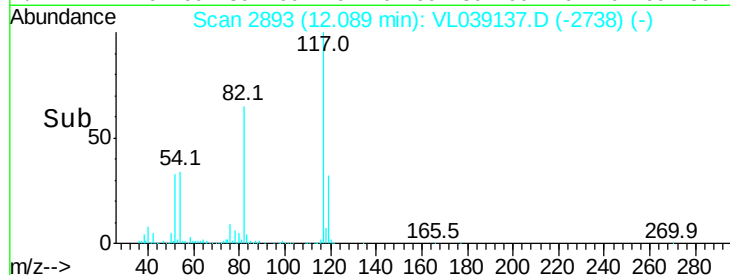
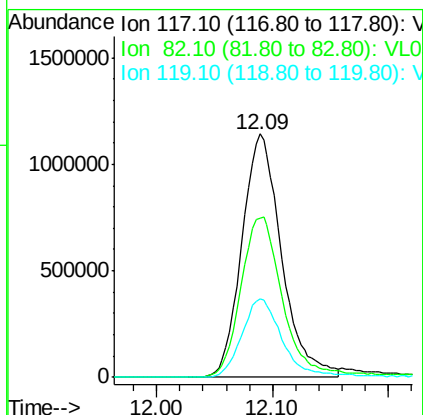
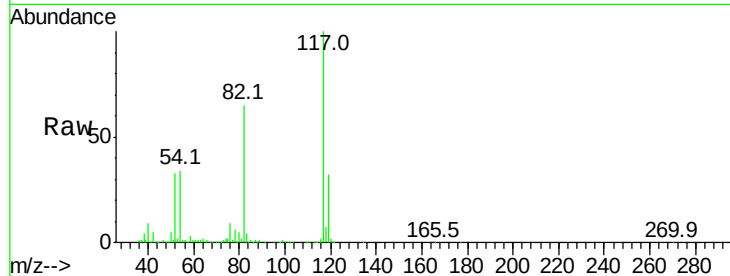




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 31 May 2022 19:02

Tgt Ion: 117 Resp: 2716671

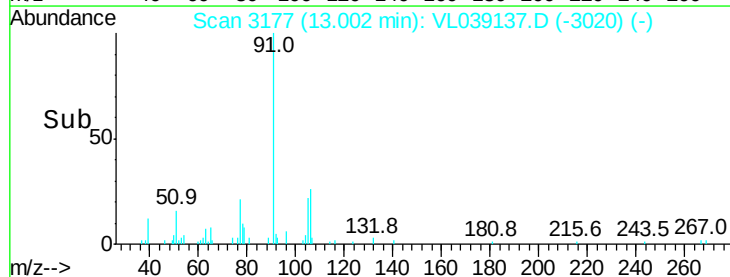
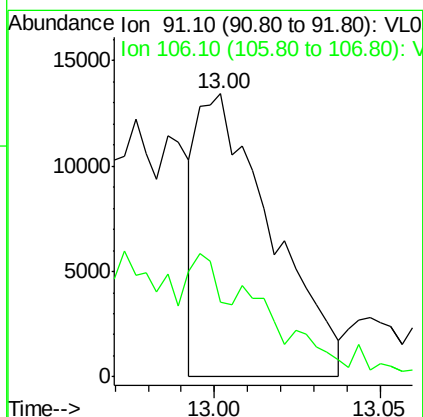
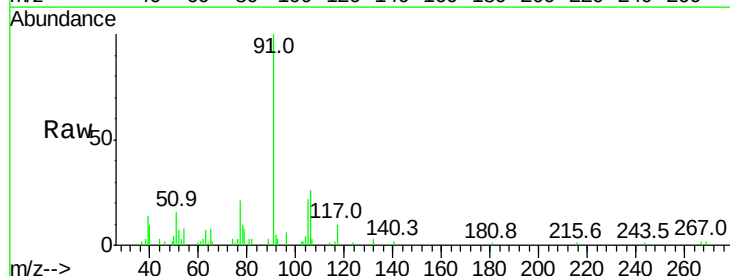
Ion	Ratio	Lower	Upper
117	100		
82	71.8	55.1	82.7
119	33.7	24.7	37.1

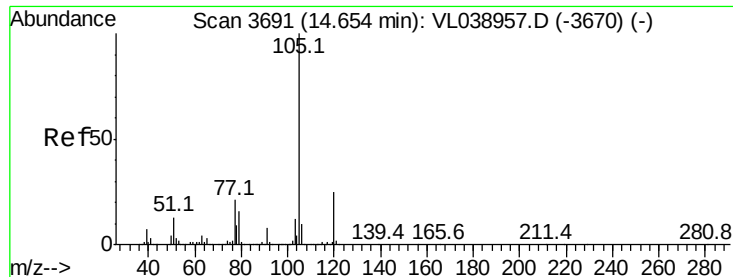


#59
m/p-Xylene
Concen: 0.06 ppbv
RT: 13.00 min Scan# 3177
Delta R.T.: 0.00 min
Lab File: VL039137.D
Acq: 31 May 2022 19:02

Tgt Ion: 91 Resp: 20818

Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.3	51.5#





#62

Isopropylbenzene

Concen: 0.05 ppbv

RT: 14.67

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

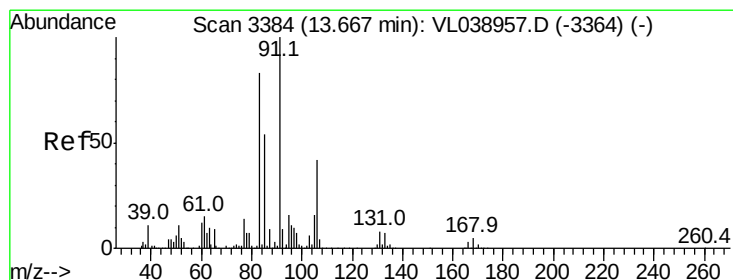
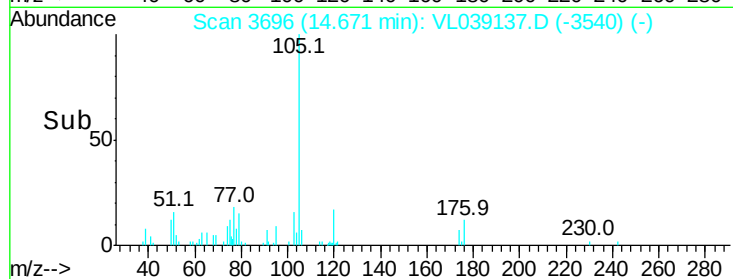
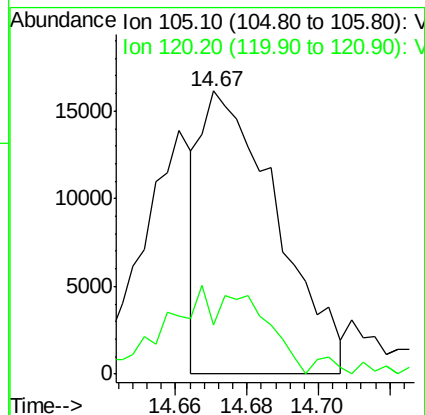
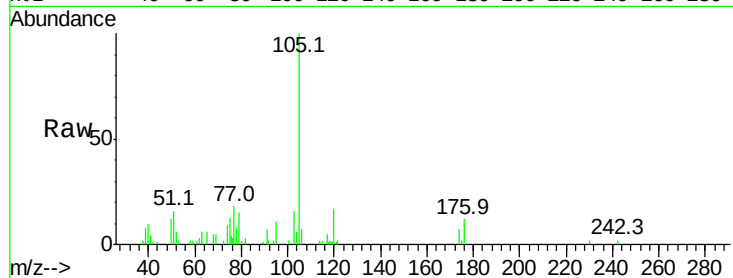
Acq: 31 May 2022 19:02

Tgt Ion: 105 Resp: 23831

Ion Ratio Lower Upper

105 100

120 41.5 20.3 30.5#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.04 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. -0.00 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

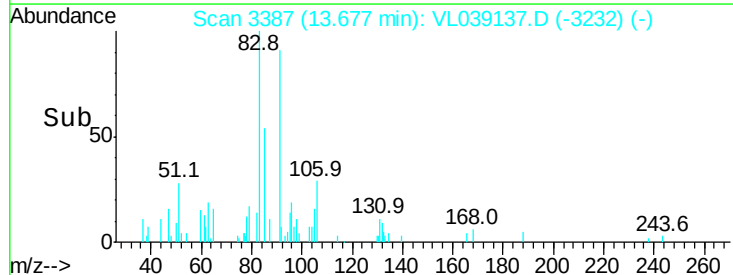
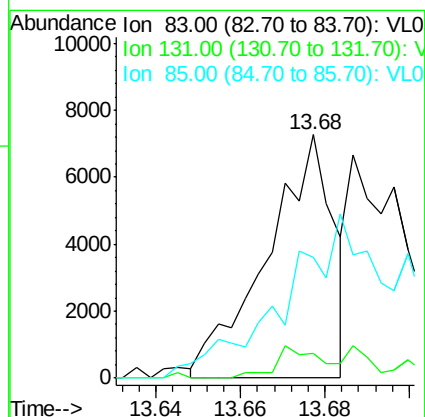
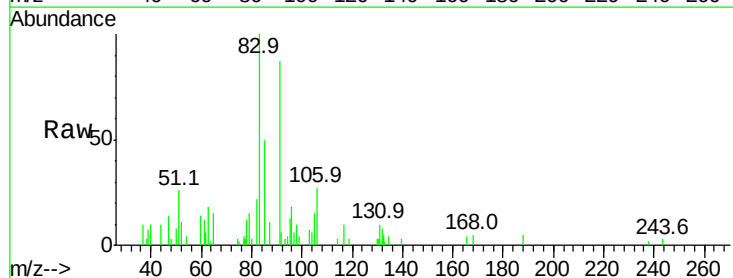
Tgt Ion: 83 Resp: 7949

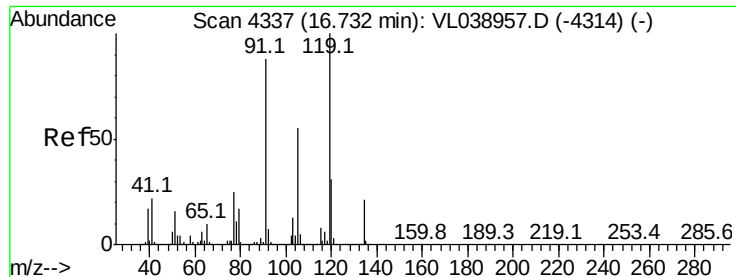
Ion Ratio Lower Upper

83 100

131 17.6 4.8 14.3#

85 0.0 33.0 99.0#





#65

tert-Butylbenzene

Concen: 0.03 ppbv

RT: 16.74

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 31 May 2022 19:02

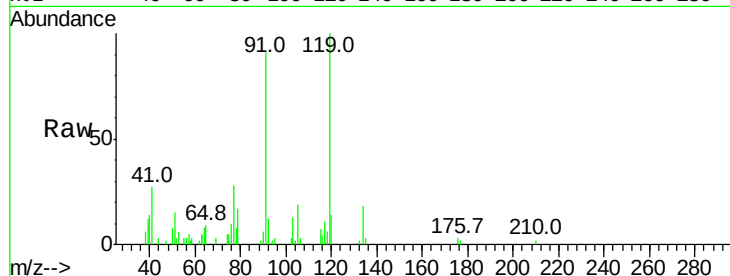
Tgt Ion: 119 Resp: 12819

Ion Ratio Lower Upper

119 100

91 0.0 67.1 100.7#

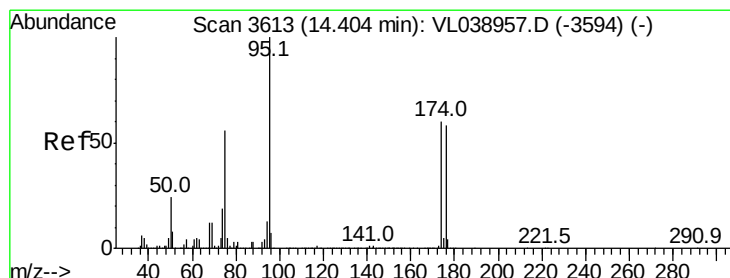
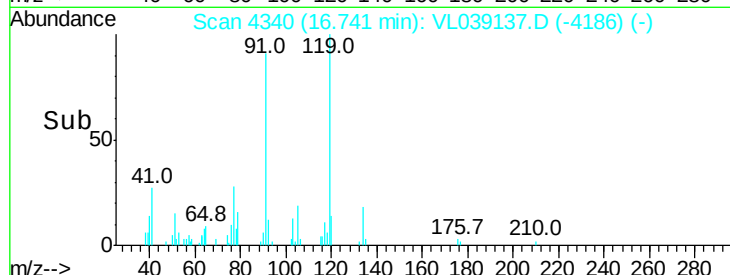
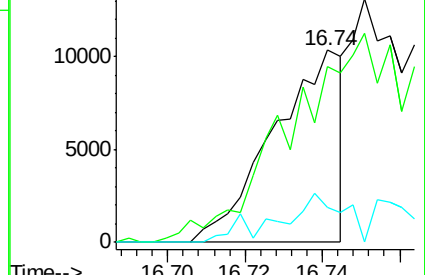
134 47.2 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.49 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

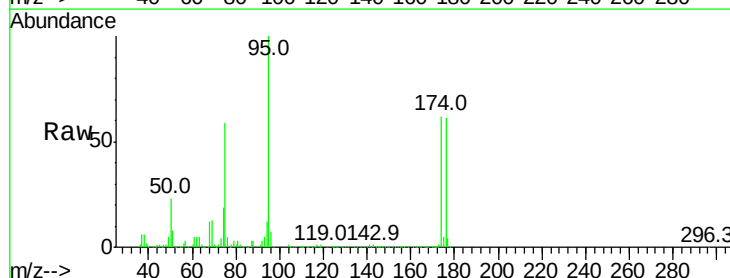
Tgt Ion: 95 Resp: 2256076

Ion Ratio Lower Upper

95 100

174 67.1 53.8 80.8

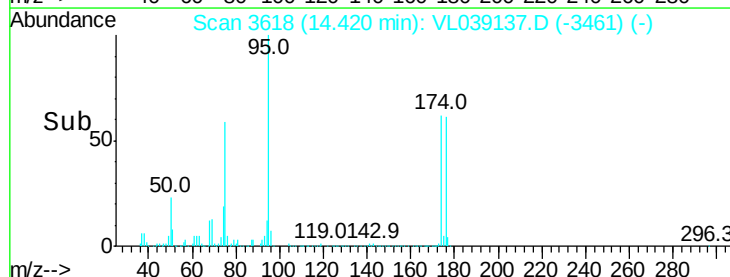
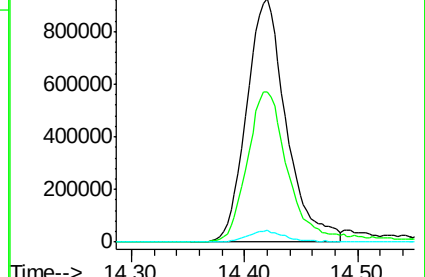
175 4.8 4.1 6.1

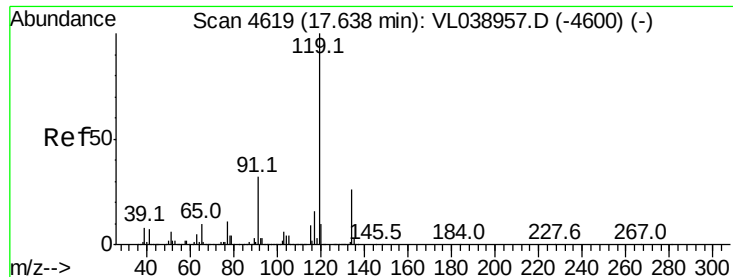


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

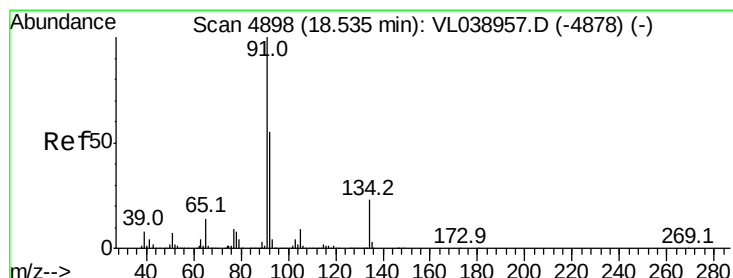
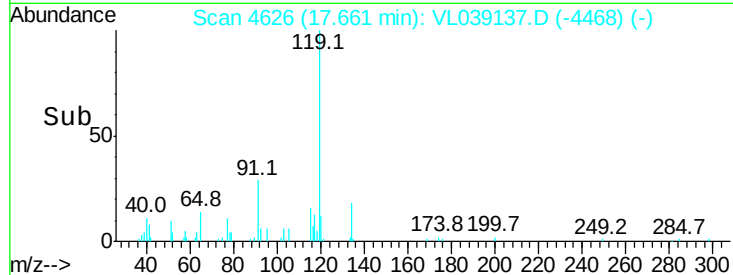
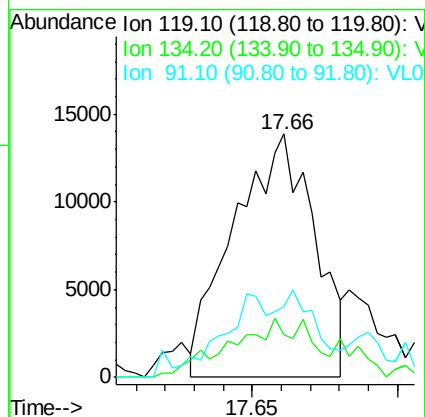
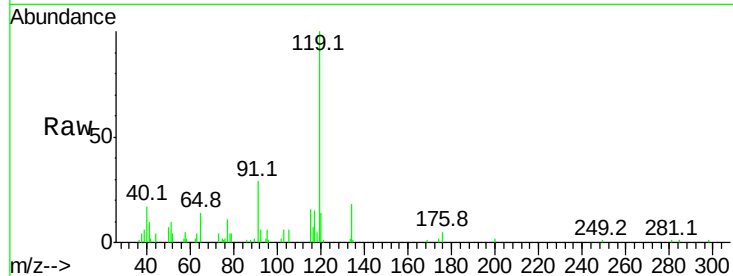
Ion 175.00 (174.70 to 175.70): V





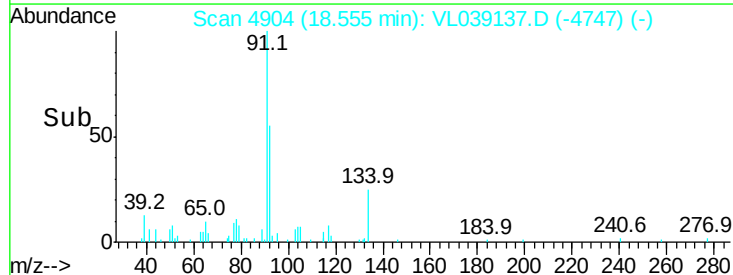
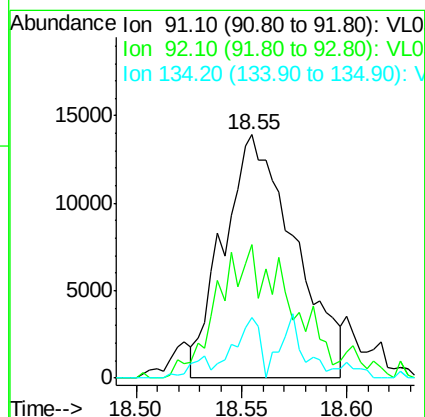
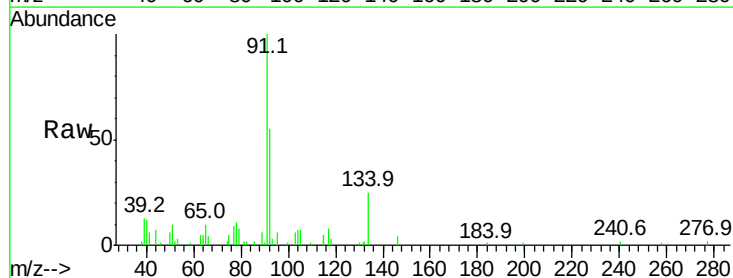
#69
 p-Isopropyltoluene
 Concen: 0.06 ppbv
 RT: 17.66
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : VSTDIC01
 Acq: 31 May 2022 19:02

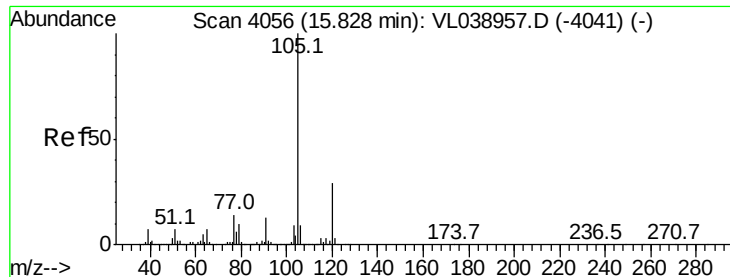
Tgt Ion	Ratio	Lower	Upper
119	100		
134	34.3	20.4	30.6#
91	51.1	24.2	36.4#



#70
 n-Butylbenzene
 Concen: 0.07 ppbv
 RT: 18.55 min Scan# 4904
 Delta R.T. 0.00 min
 Lab File: VL039137.D
 Acq: 31 May 2022 19:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.5	43.6	65.4
134	21.9	17.7	26.5





#72

4-Ethyltoluene

Concen: 0.04 ppbv

RT: 15.84 min

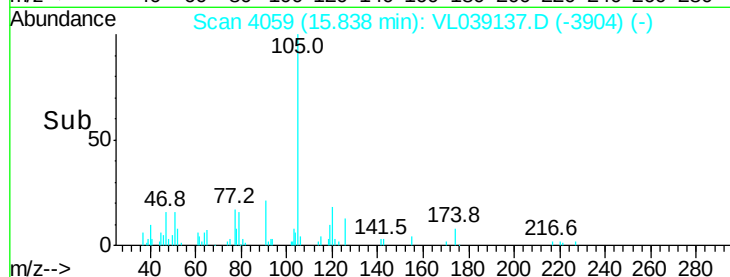
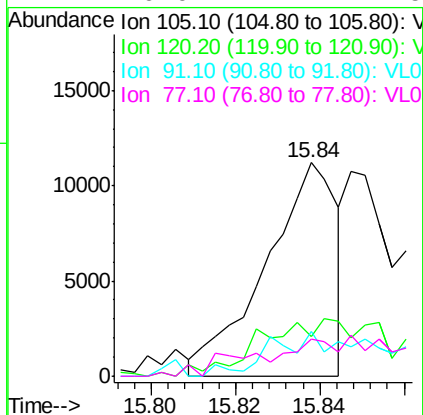
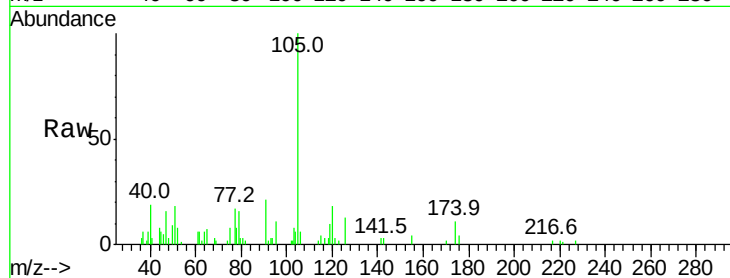
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDIC0.1

Acq: 31 May 2022 19:02

Tgt Ion:	105	Resp:	13096
Ion Ratio	Lower	Upper	
105	100		
120	62.1	23.9	35.9#
91	38.2	10.6	16.0#
77	0.0	11.7	17.5#



#75

1,3-Dichlorobenzene

Concen: 0.05 ppbv

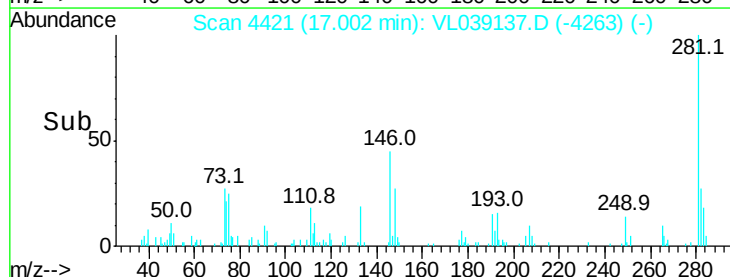
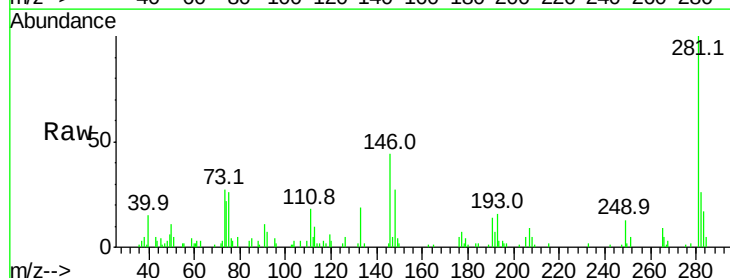
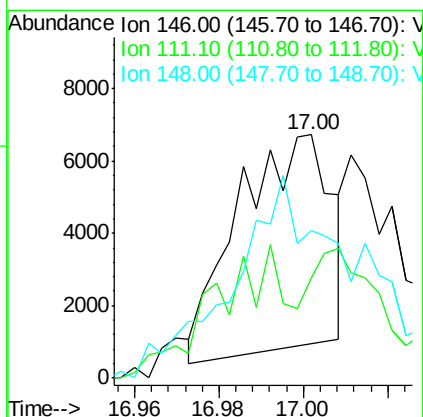
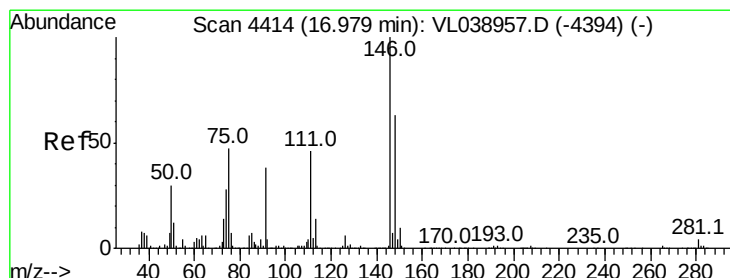
RT: 17.00 min Scan# 4421

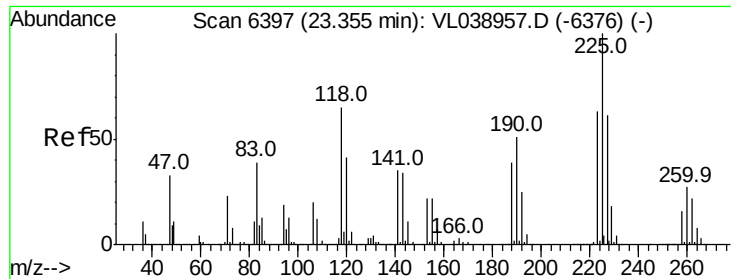
Delta R.T. 0.01 min

Lab File: VL039137.D

Acq: 31 May 2022 19:02

Tgt Ion:	146	Resp:	9024
Ion Ratio	Lower	Upper	
146	100		
111	113.0	23.8	71.4#
148	143.4	32.4	97.0#





#78

Hexachloro-1,3-Butadiene

Concen: 0.04 ppbv

RT: 23.36 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

VSTDIC0.1

Acq: 31 May 2022 19:02

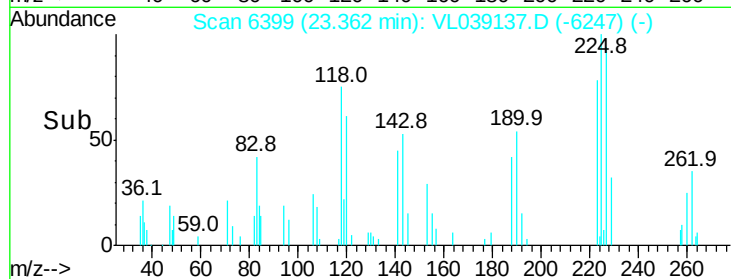
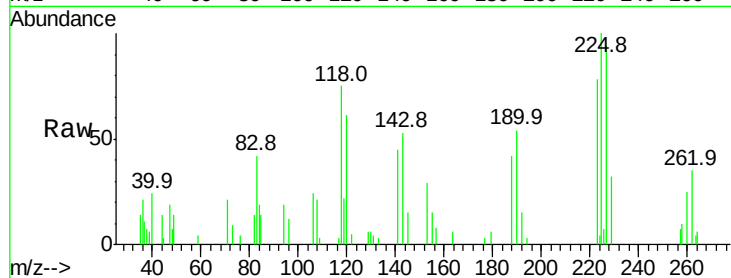
Tgt Ion: 225 Resp: 6376

Ion Ratio Lower Upper

225 100

223 0.0 51.4 77.0#

227 0.0 50.6 75.8#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

