

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038986.D
 Acq On : 5 May 2022 23:55
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Quant Time: May 06 07:30:32 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	954689	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2164977	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1804301	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1503272	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.19	85	21947	0.147 ppbv	96
3) Chlorodifluoromethane	2.99	51	19844	0.168 ppbv	99
4) Chloromethane	3.14	50	6962	0.117 ppbv #	79
5) Vinyl Chloride	3.26	62	5919	0.109 ppbv	92
6) Bromomethane	3.48	94	1785	0.070 ppbv #	37
7) Chloroethane	3.56	64	1761	0.097 ppbv	89
8) Dichlorotetrafluoroethane	3.19	85	21947	0.162 ppbv	98
10) Heptane	8.11	43	6952	0.055 ppbv #	1
11) Trichlorofluoromethane	3.95	101	21404	0.167 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	9918	0.112 ppbv #	15
14) Bromoethene	3.74	108	2062	0.057 ppbv #	1
15) Acetone	3.87	43	18733	0.208 ppbv	94
16) 1,3-Butadiene	3.32	39	1774	0.034 ppbv #	9
18) 1,1-Dichloroethene	4.29	96	4144	0.109 ppbv #	89
20) Methylene Chloride	4.34	84	3792	0.112 ppbv #	42
21) Allyl Chloride	4.41	41	3624	0.059 ppbv #	19
22) trans-1,2-Dichloroethene	4.88	96	2148	0.052 ppbv #	33
23) Vinyl Acetate	5.07	43	2651	0.037 ppbv #	77
24) 1,1-Dichloroethane	5.01	63	6760	0.082 ppbv #	94
25) Ethyl Acetate	5.69	43	14556	0.068 ppbv #	66
26) Hexane	5.68	57	11346	0.118 ppbv #	81
27) Carbon Disulfide	4.55	76	3820	0.042 ppbv #	57
28) Methyl tert-Butyl Ether	5.05	73	7716	0.106 ppbv #	56
29) Chloroform	5.75	83	25383	0.164 ppbv	99
30) Cyclohexane	7.12	84	3858	0.048 ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	7560	0.077 ppbv	95
32) 1,1,1-Trichloroethane	6.50	97	9317	0.060 ppbv #	9
35) Carbon Tetrachloride	7.01	117	12642	0.089 ppbv #	90
36) Benzene	6.89	78	24007	0.130 ppbv	98
37) 1,2-Dichloroethane	6.29	62	5546	0.048 ppbv #	83
38) Trichloroethene	7.83	130	5774	0.070 ppbv #	69
39) 1,2-Dichloropropane	7.20	63	20982	0.291 ppbv #	26
41) Tetrahydrofuran	6.08	42	2971	0.040 ppbv #	29
42) Bromodichloromethane	7.79	83	9380	0.060 ppbv #	92
43) Methyl Methacrylate	8.01	69	2575	0.034 ppbv #	1
44) 2,2,4-Trimethylpentane	7.86	57	21365	0.066 ppbv #	32
46) cis-1,3-Dichloropropene	8.68	75	2961	0.031 ppbv #	84
47) 1,1,2-Trichloroethane	9.47	97	2382	0.032 ppbv #	58
48) Dibromochloromethane	10.30	129	4617	0.038 ppbv #	1
52) Tetrachloroethene	11.21	164	5265	0.080 ppbv #	66
54) 1,2-Dibromoethane	10.61	107	4020	0.039 ppbv	97

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Instrument :
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 ClientSampleId :
 VSTDCCC010EC

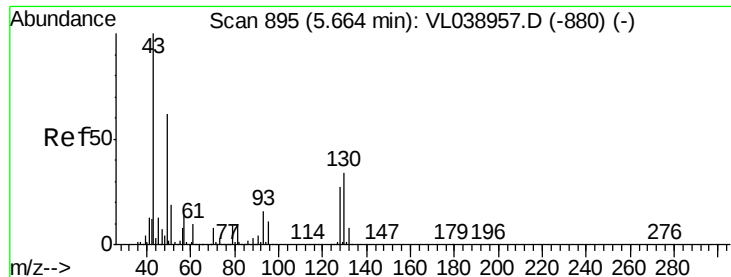
Quant Time: May 06 07:30:32 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

56) 1,1,1,2-Tetrachloroethane	12.11	131	4123	0.052	ppbv #	9
57) Chlorobenzene	12.13	112	15180	0.112	ppbv #	36
58) Ethyl Benzene	12.71	91	9773	0.038	ppbv	98
59) m/p-Xylene	12.99	91	11375	0.051	ppbv #	1
60) o-Xylene	13.67	91	10885	0.052	ppbv #	15
61) Styrene	13.52	104	4959	0.045	ppbv #	1
62) Isopropylbenzene	14.65	105	15656	0.059	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.66	83	5690	0.046	ppbv #	1
64) n-propylbenzene	15.55	120	3685	0.050	ppbv #	1
65) tert-Butylbenzene	16.73	119	9576	0.036	ppbv #	1
66) Benzyl Chloride	16.97	91	1239	0.035	ppbv #	70
67) sec-Butylbenzene	17.28	105	35307	0.092	ppbv #	84
69) p-Isopropyltoluene	17.64	119	12965	0.042	ppbv #	23
70) n-Butylbenzene	18.54	91	24081	0.073	ppbv #	54
71) 2-Chlorotoluene	15.44	91	10890	0.046	ppbv #	19
72) 4-Ethyltoluene	15.82	105	14158	0.060	ppbv #	44
73) 1,3,5-Trimethylbenzene	15.98	105	15594	0.073	ppbv #	80
74) 1,2,4-Trimethylbenzene	16.74	105	9116	0.039	ppbv #	50
75) 1,3-Dichlorobenzene	16.97	146	5985	0.047	ppbv #	1
76) 1,4-Dichlorobenzene	17.12	146	8668	0.069	ppbv #	18
77) 1,2-Dichlorobenzene	17.79	146	4094	0.032	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.36	225	20448	0.175	ppbv #	62
79) Naphthalene	22.17	128	7468	0.039	ppbv #	97
80) Naphthalene,2-methyl-	24.98	142	2454	0.043	ppbv #	34
81) 1,2,4-Trichlorobenzene	21.91	180	7870	0.071	ppbv #	1

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId: VSTDCCC010EC

Acq: 5 May 2022 23:55

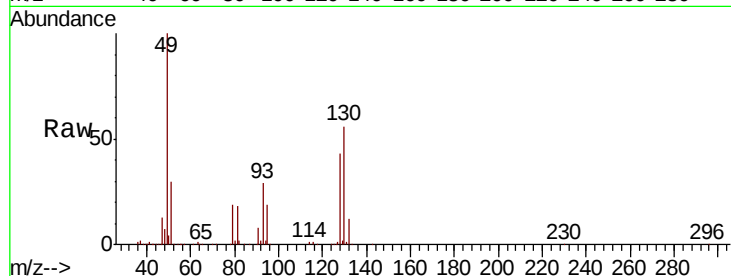
Tot Ion: 49 Resp: 954689

Ion Ratio Lower Upper

49 100

128 45.2 23.3 69.8

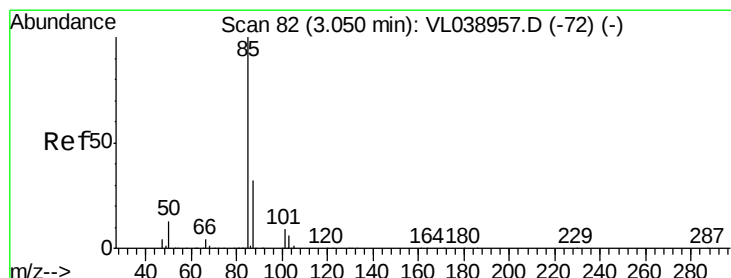
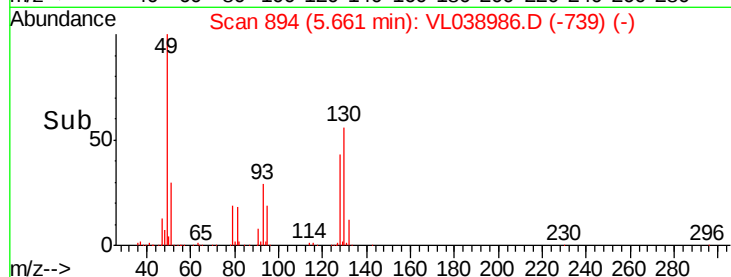
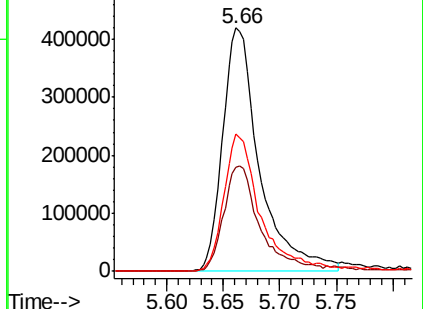
130 57.6 29.8 89.3



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: 0.147 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.14 min

Lab File: VL038986.D

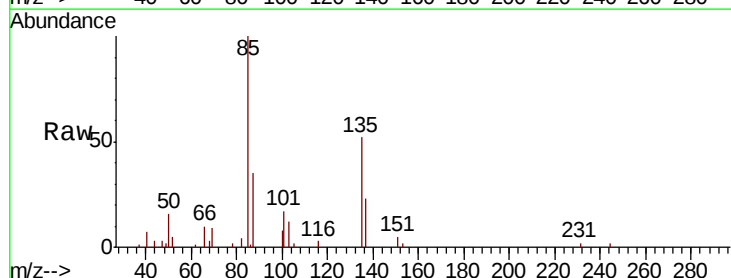
Acq: 5 May 2022 23:55

Tgt Ion: 85 Resp: 21947

Ion Ratio Lower Upper

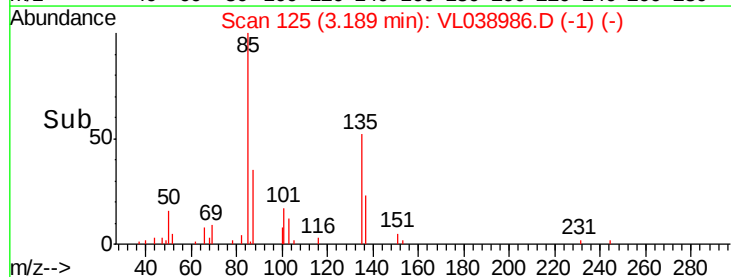
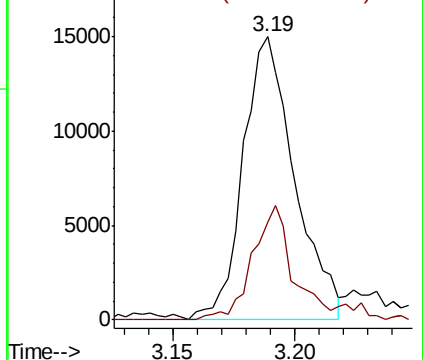
85 100

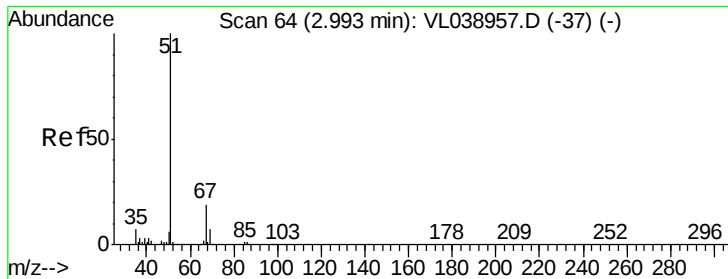
87 34.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

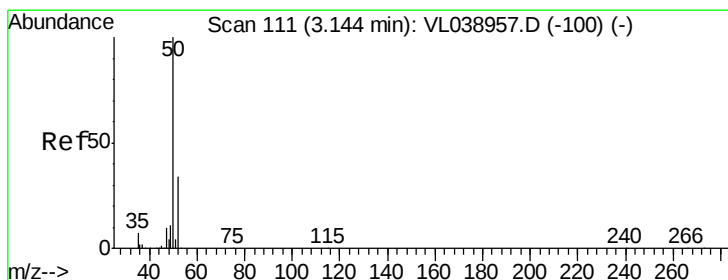
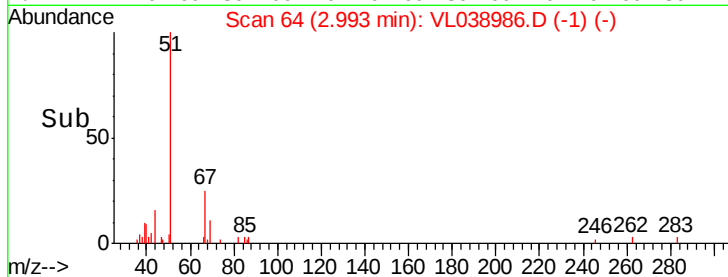
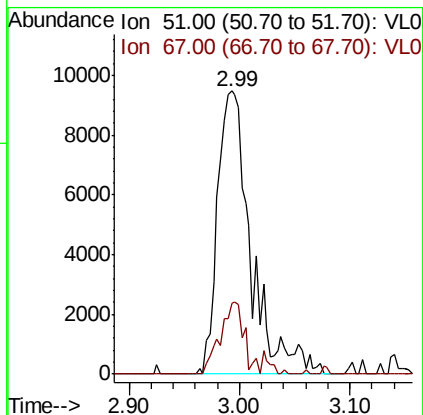
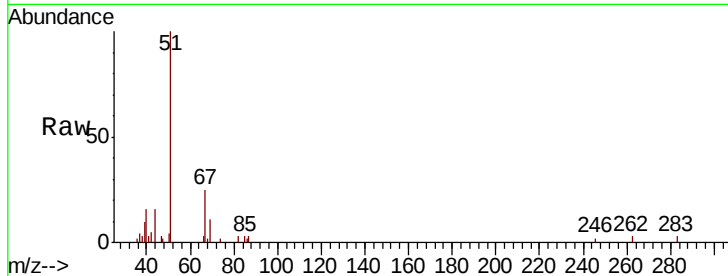
Ion 87.00 (86.70 to 87.70): VL0





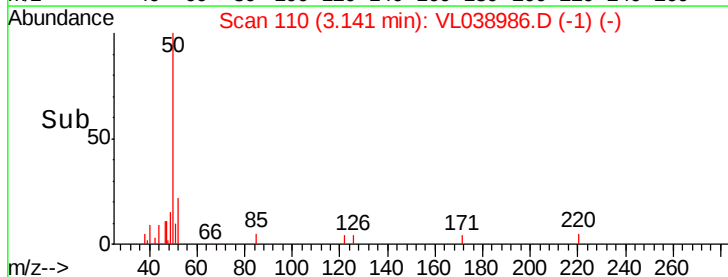
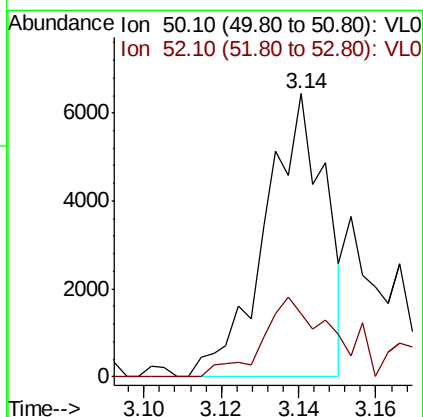
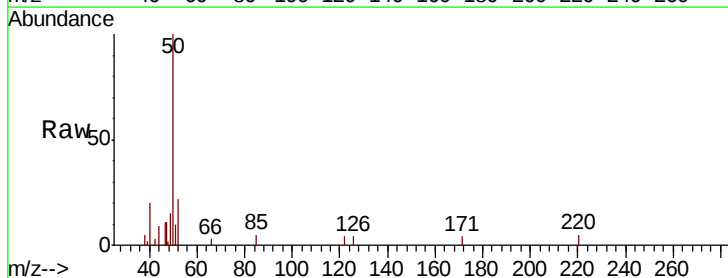
#3
Chlorodifluoromethane
Concen: 0.168 ppbv
RT: 2.99
Instrument: MSVOA.L
Delta R.T.:
Lab File: ClientSampleId :
VSTDCCC010EC
Acq: 5 May 2022 23:55

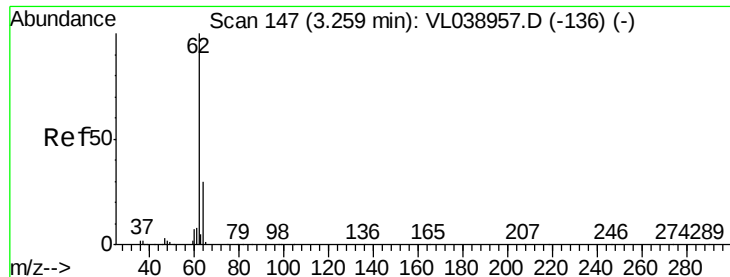
Tot Ion: 51 Resp: 19844
Ion Ratio Lower Upper
51 100
67 20.2 15.8 23.8



#4
Chloromethane
Concen: 0.117 ppbv
RT: 3.14 min Scan# 110
Delta R.T.: -0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion: 50 Resp: 6962
Ion Ratio Lower Upper
50 100
52 22.3 27.3 40.9#





#5

Vinyl Chloride

Concen: 0.109 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

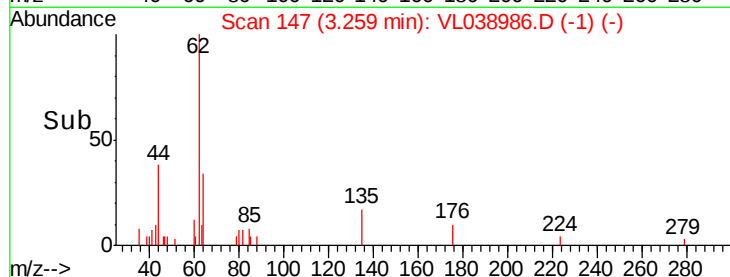
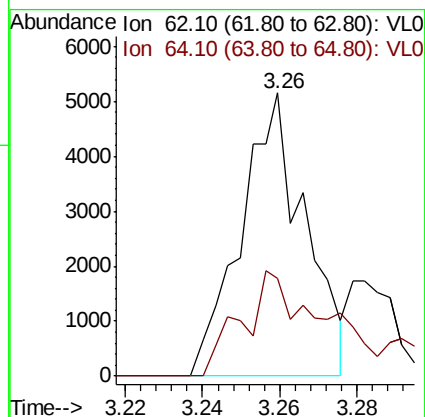
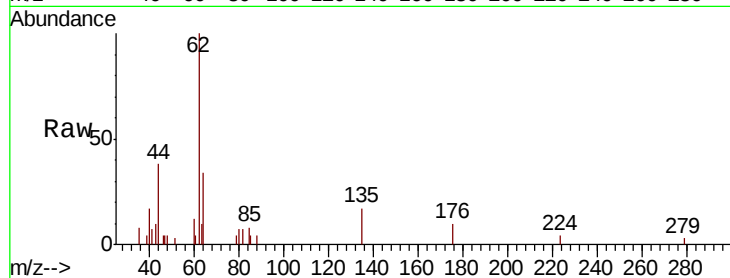
Acq: 5 May 2022 23:55 VSTDCCC010EC

Tot Ion: 62 Resp: 5919

Ion Ratio Lower Upper

62 100

64 34.5 24.2 36.4



#6

Bromomethane

Concen: 0.070 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.00 min

Lab File: VL038986.D

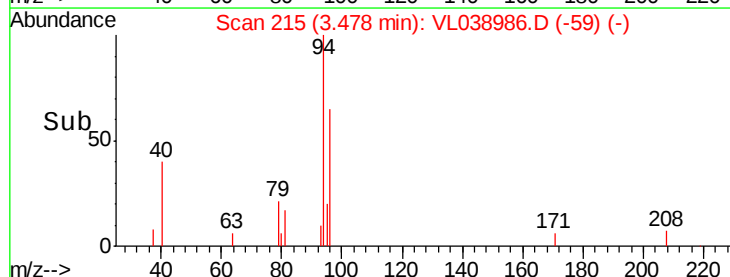
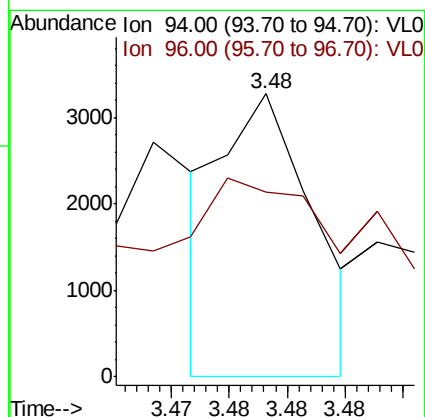
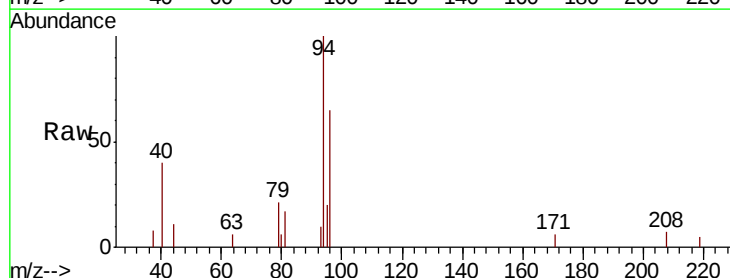
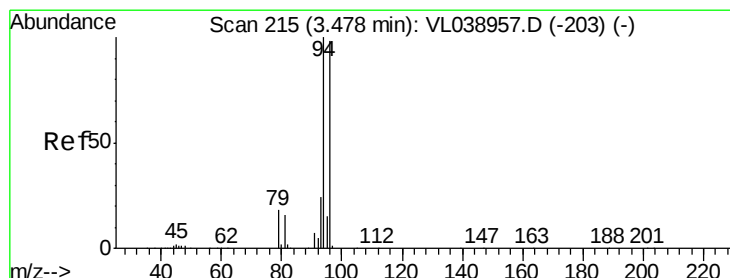
Acq: 5 May 2022 23:55

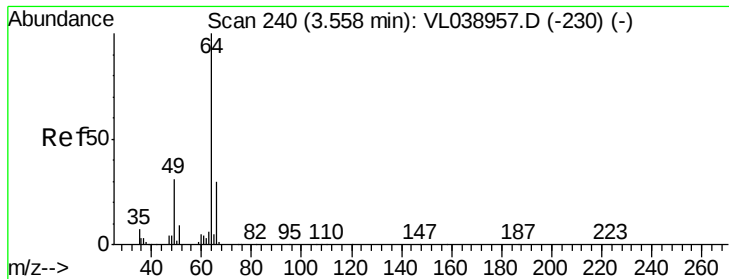
Tgt Ion: 94 Resp: 1785

Ion Ratio Lower Upper

94 100

96 35.2 78.1 117.1#





#7

Chloroethane

Concen: 0.097 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

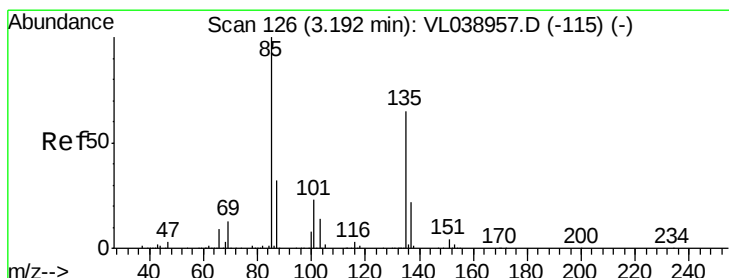
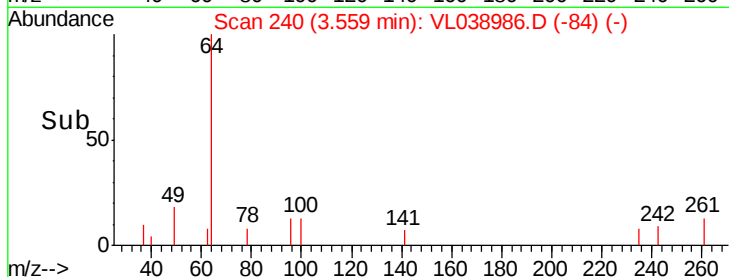
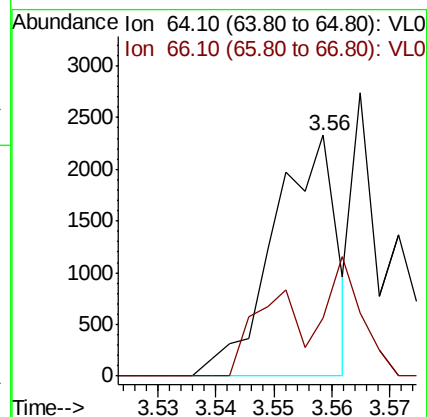
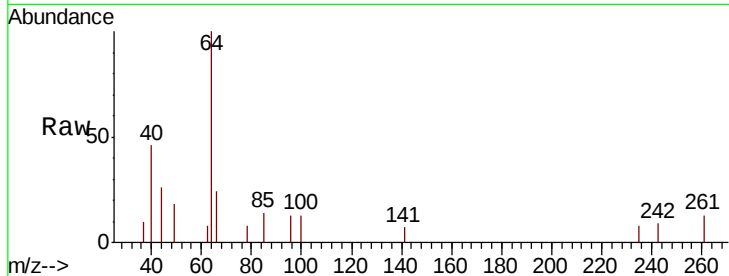
Acq: 5 May 2022 23:55 VSTDCCC010EC

Tot Ion: 64 Resp: 1761

Ion Ratio Lower Upper

64 100

66 23.9 23.8 35.8



#8

Dichlorotetrafluoroethane

Concen: 0.162 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.00 min

Lab File: VL038986.D

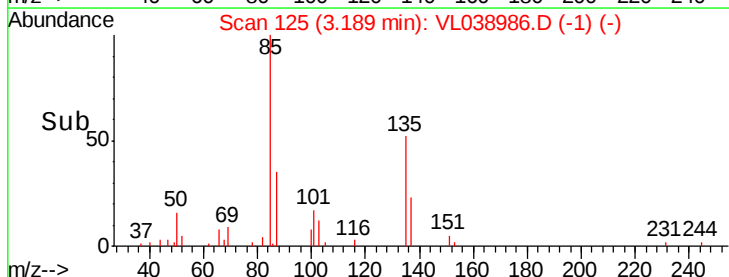
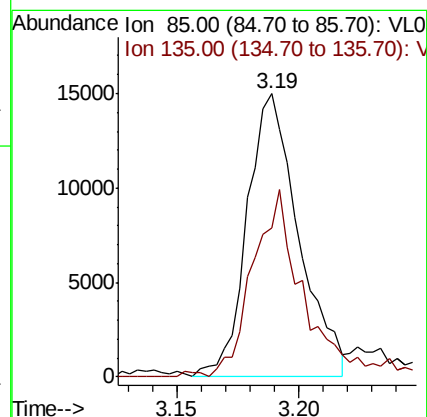
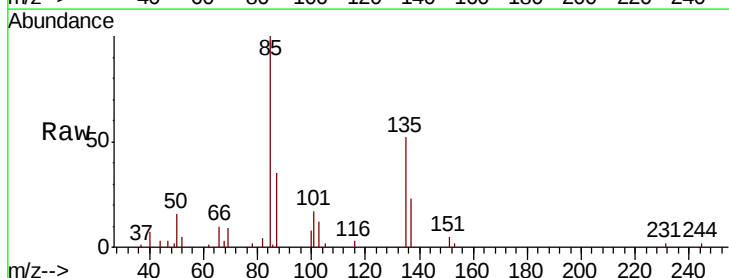
Acq: 5 May 2022 23:55

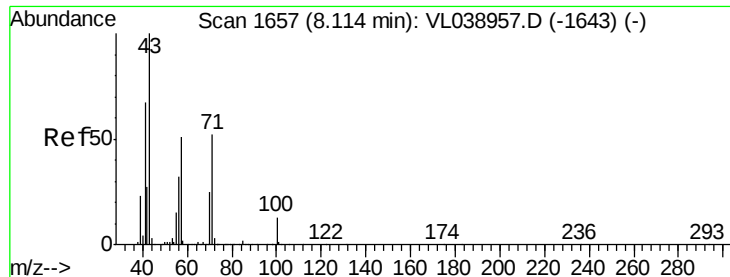
Tgt Ion: 85 Resp: 21947

Ion Ratio Lower Upper

85 100

135 68.3 53.6 80.4





#10

Heptane

Concen: 0.055 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

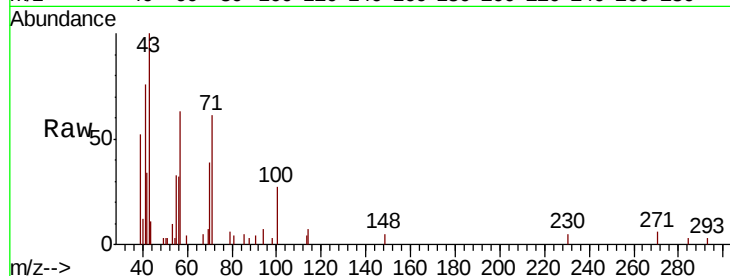
Acq: 5 May 2022 23:55 VSTDCCC010EC

Tot Ion: 43 Resp: 6952

Ion Ratio Lower Upper

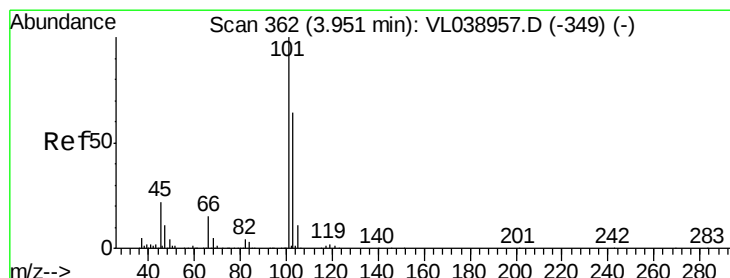
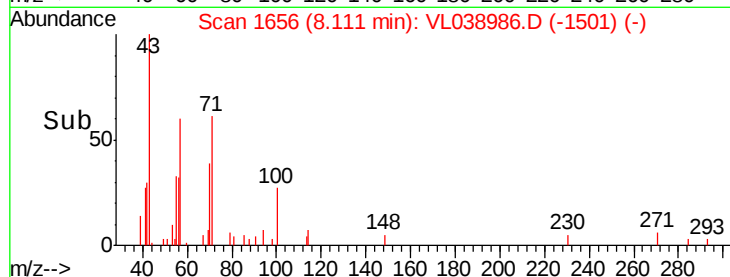
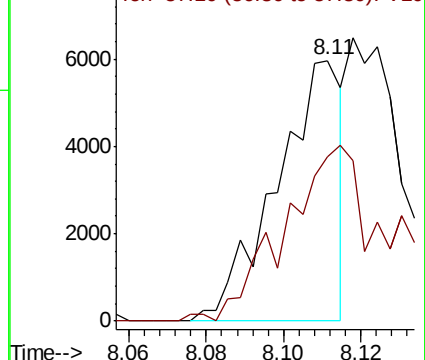
43 100

57 126.4 40.5 60.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.167 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL038986.D

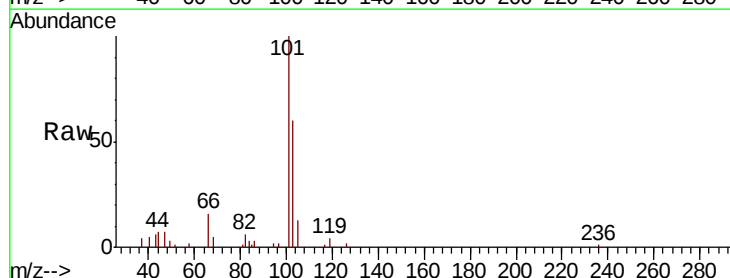
Acq: 5 May 2022 23:55

Tgt Ion:101 Resp: 21404

Ion Ratio Lower Upper

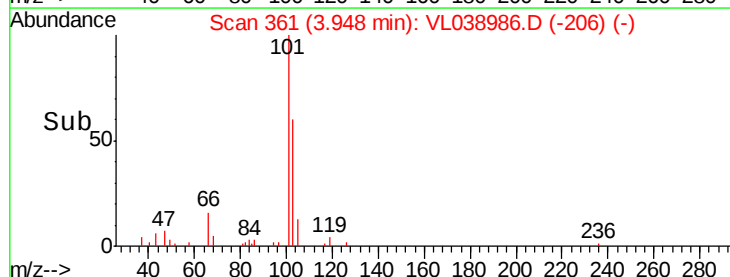
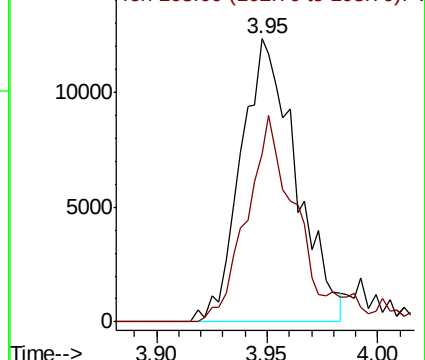
101 100

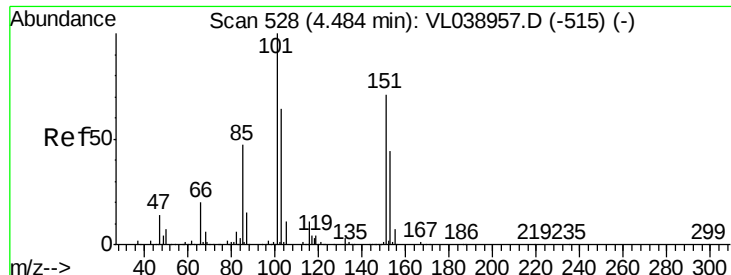
103 59.6 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

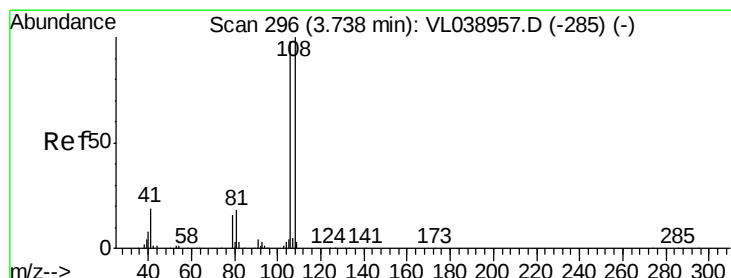
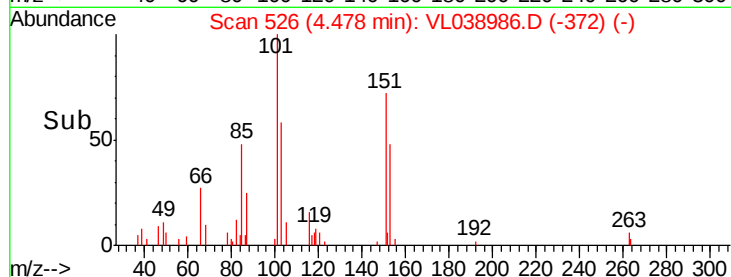
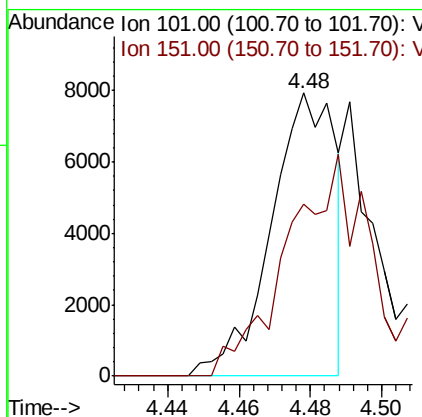
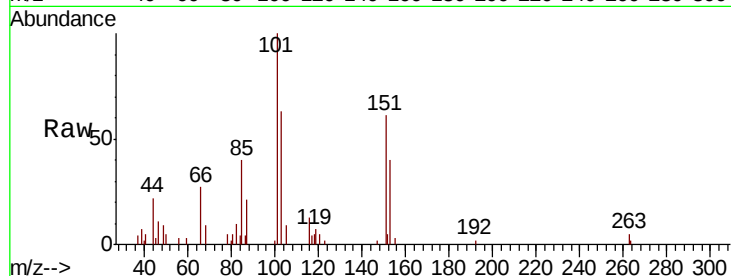
Ion 103.00 (102.70 to 103.70): V





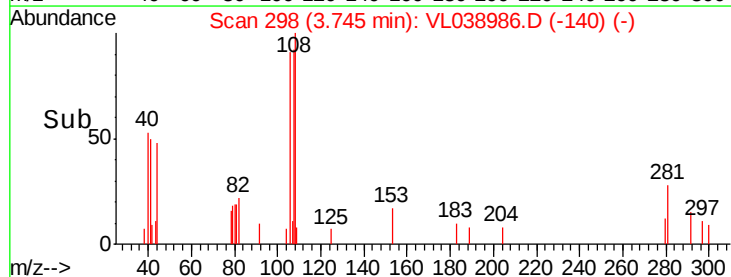
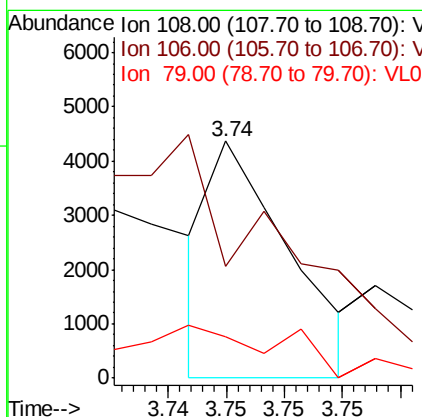
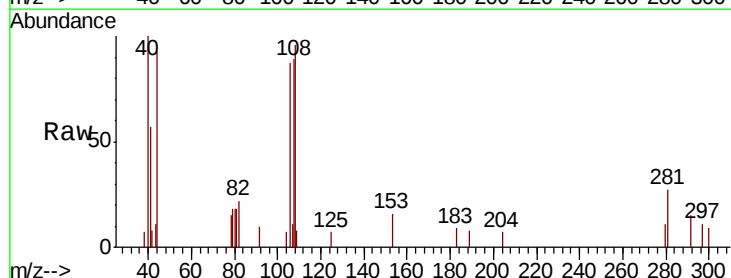
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.112 ppbv
 RT: 4.48
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

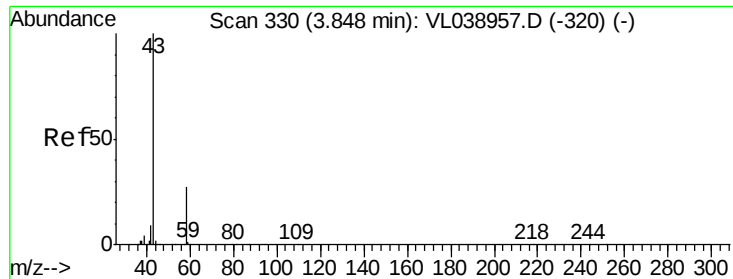
Tot Ion:101 Resp: 9918
 Ion Ratio Lower Upper
 101 100
 151 0.0 55.4 83.0#



#14
 Bromoethene
 Concen: 0.057 ppbv
 RT: 3.74 min Scan# 298
 Delta R.T.: 0.01 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion:108 Resp: 2062
 Ion Ratio Lower Upper
 108 100
 106 371.8 90.3 135.5#
 79 75.6 14.9 22.3#





#15

Acetone

Concen: 0.208 ppbv

RT: 3.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

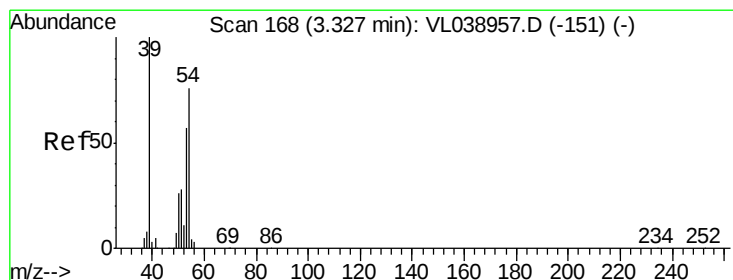
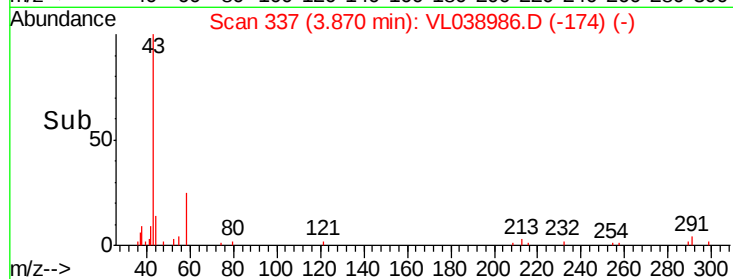
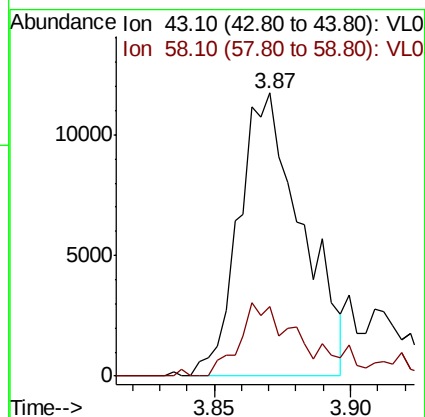
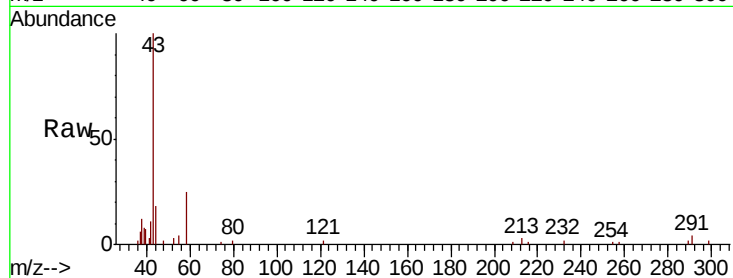
Acq: 5 May 2022 23:55

Tot Ion: 43 Resp: 18733

Ion Ratio Lower Upper

43 100

58 29.5 21.3 31.9



#16

1,3-Butadiene

Concen: 0.034 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL038986.D

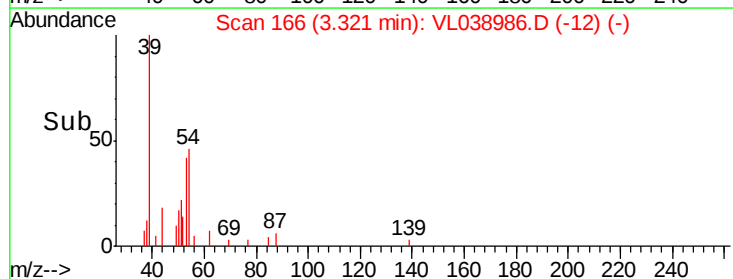
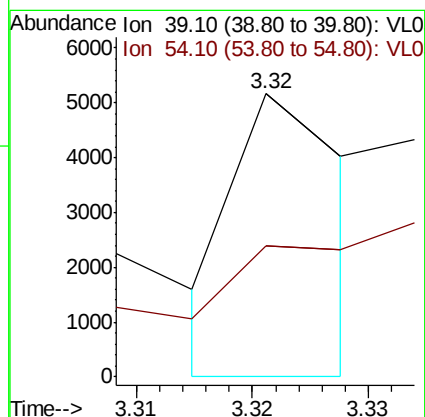
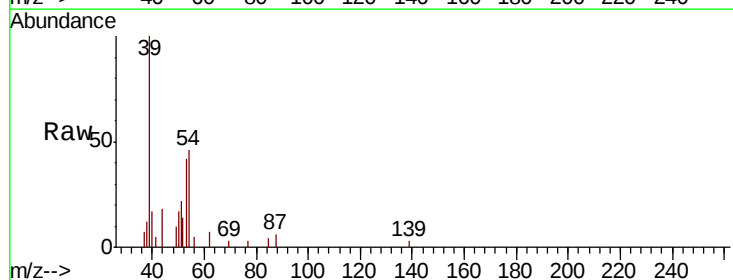
Acq: 5 May 2022 23:55

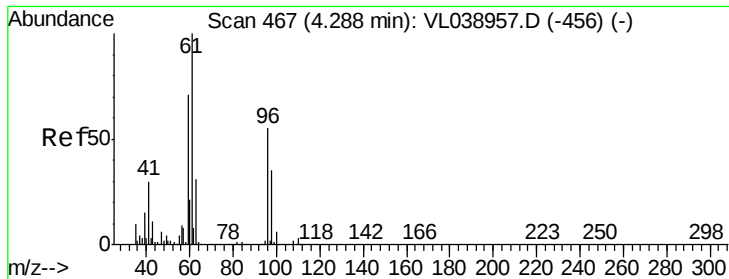
Tgt Ion: 39 Resp: 1774

Ion Ratio Lower Upper

39 100

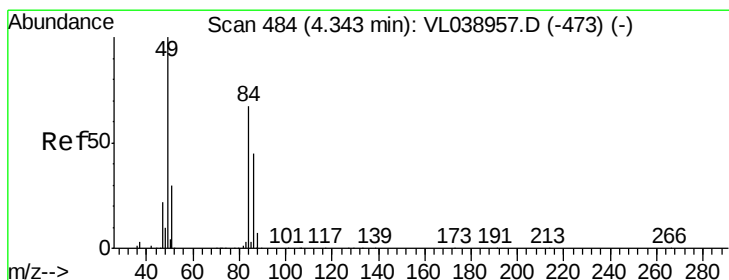
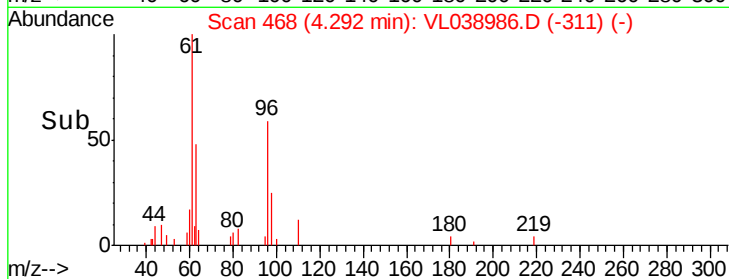
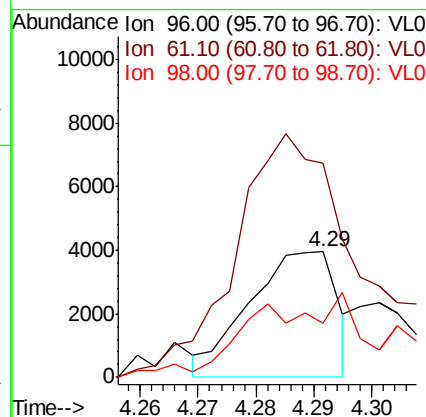
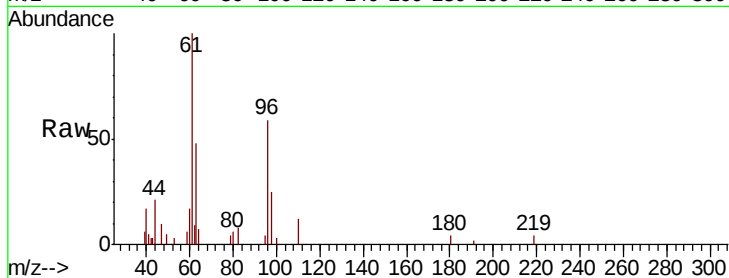
54 0.0 65.2 97.8#





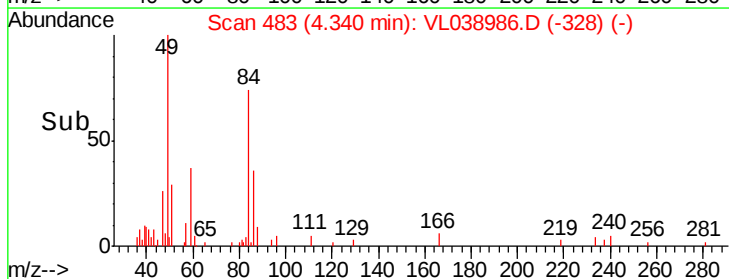
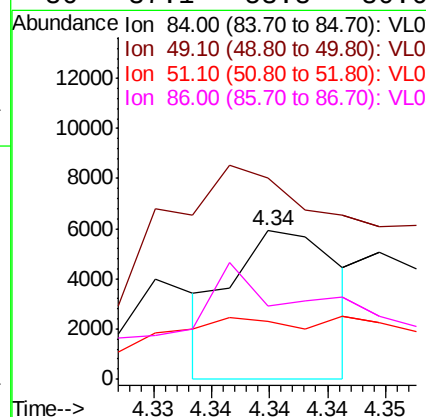
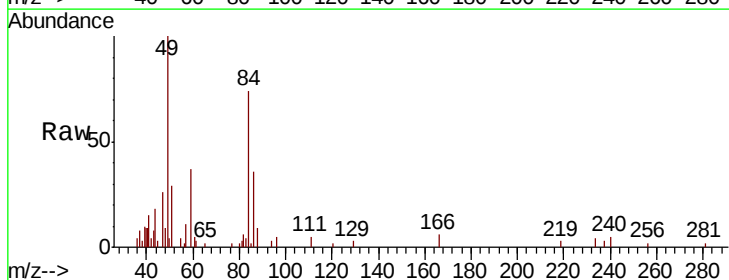
#18
 1,1-Dichloroethene
 Concen: 0.109 ppbv
 RT: 4.29
 Instrument: MSVOA_L
 Delta R.T.:
 ClientSampleId:
 Lab File: VSTDCCC010EC
 Acq: 5 May 2022 23:55

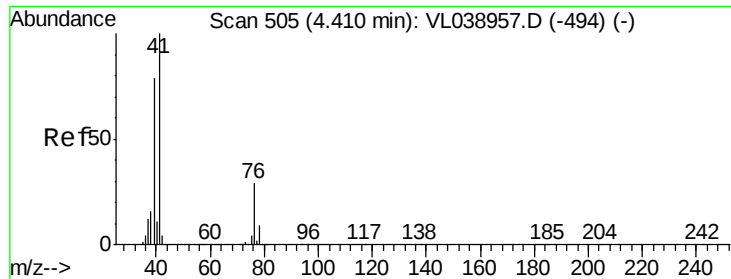
Tot Ion: 96 Resp: 4144
 Ion Ratio Lower Upper
 96 100
 61 171.8 146.3 219.5
 98 47.0 50.6 75.8#



#20
 Methylene Chloride
 Concen: 0.112 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

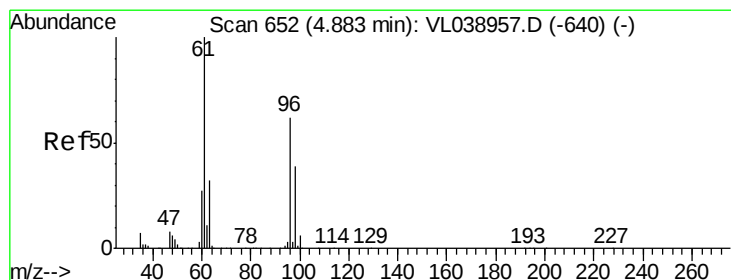
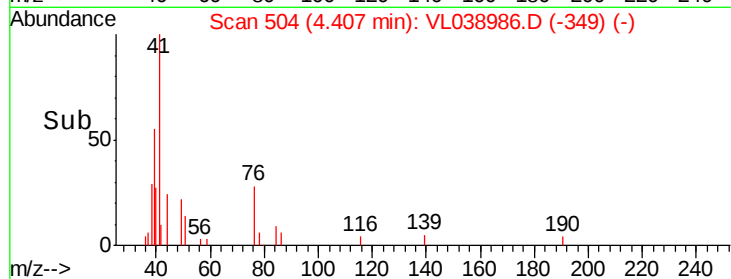
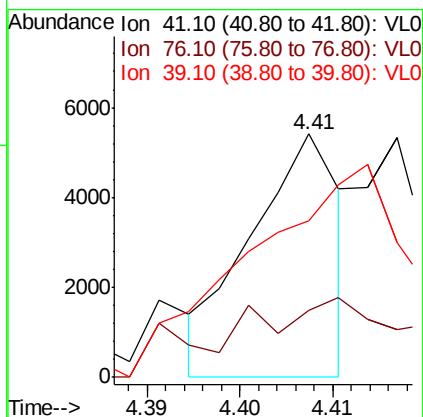
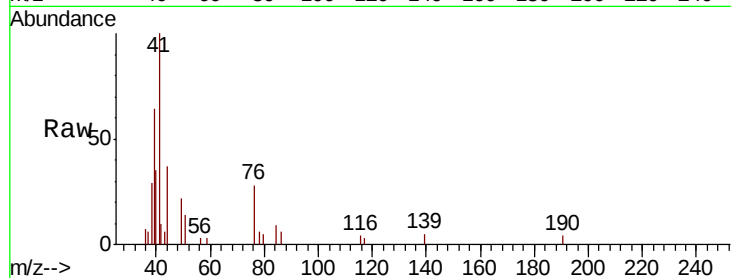
Tgt Ion: 84 Resp: 3792
 Ion Ratio Lower Upper
 84 100
 49 61.3 119.9 179.9#
 51 11.7 35.7 53.5#
 86 37.1 53.8 80.6#





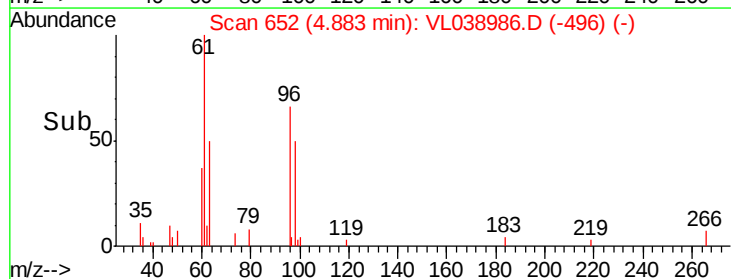
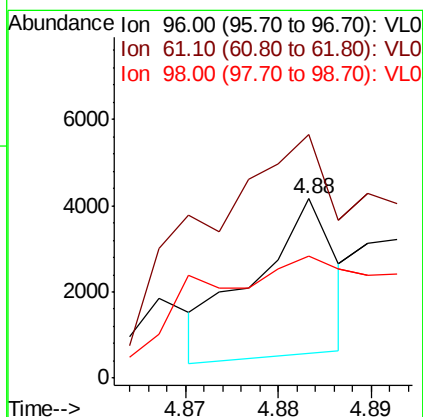
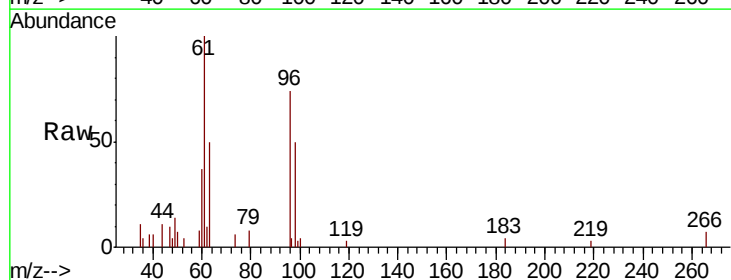
#21
Allvl Chloride
Concen: 0.059 ppbv
RT: 4.41 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
VSTDCCC010EC
Acq: 5 May 2022 23:55

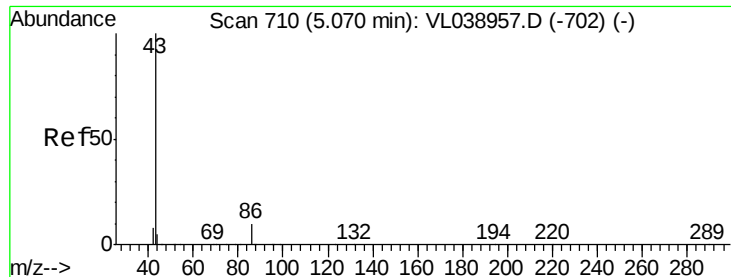
Tot Ion: 41 Resp: 3624
Ion Ratio Lower Upper
41 100
76 0.0 24.2 36.4#
39 0.0 63.8 95.8#



#22
trans-1,2-Dichloroethene
Concen: 0.052 ppbv
RT: 4.88 min Scan# 652
Delta R.T.: 0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion: 96 Resp: 2148
Ion Ratio Lower Upper
96 100
61 68.4 128.2 192.2#
98 15.3 50.1 75.1#





#23

Vinyl Acetate

Concen: 0.037 ppbv

RT: 5.07 Instrument: MSVOA_1

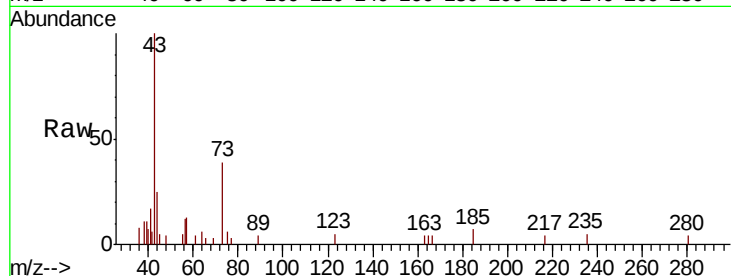
Delta R.T. ClientSampleId:

Lab File: VSTDCCC010EC

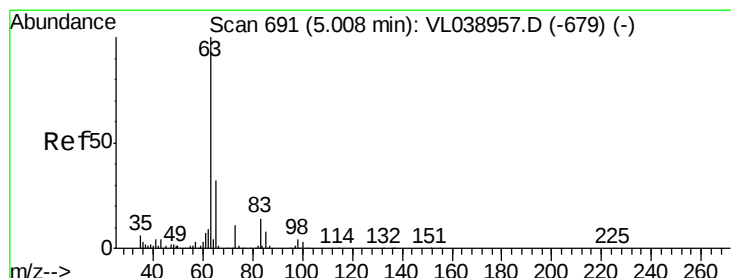
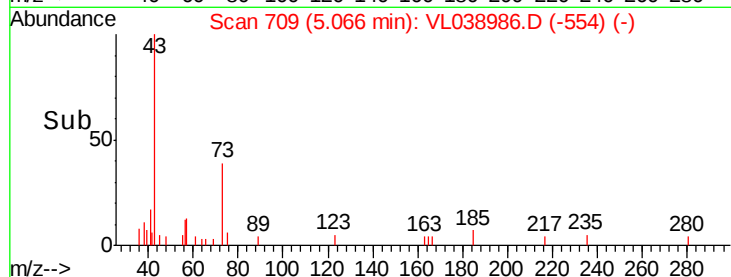
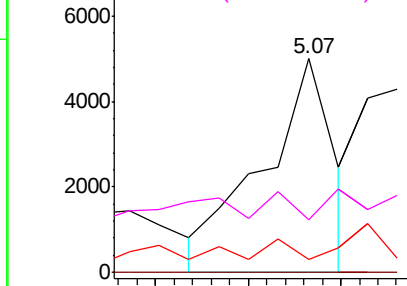
Acq: 5 May 2022 23:55

Tot Ion: 43 Resp: 2651

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	0.0	8.1	12.1#
44	0.0	3.5	5.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.082 ppbv

RT: 5.01 min Scan# 691

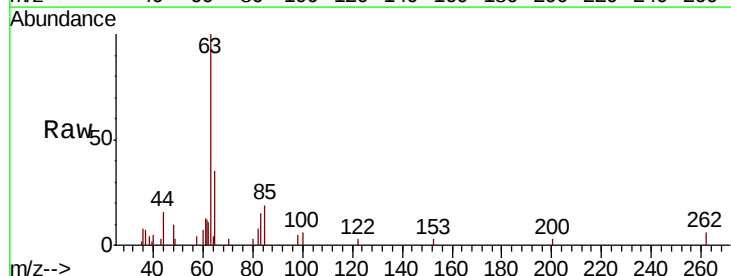
Delta R.T. 0.00 min

Lab File: VL038986.D

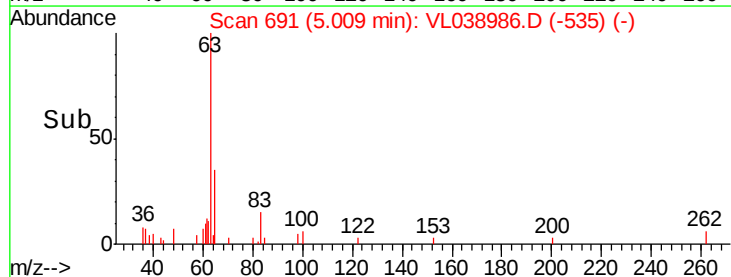
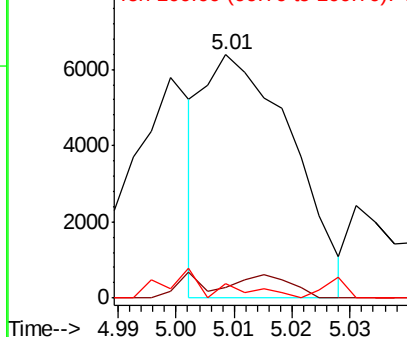
Acq: 5 May 2022 23:55

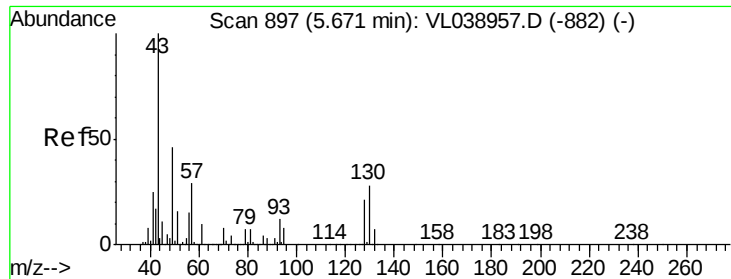
Tgt Ion: 63 Resp: 6760

Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.1	6.2
100	0.0	1.4	4.2#



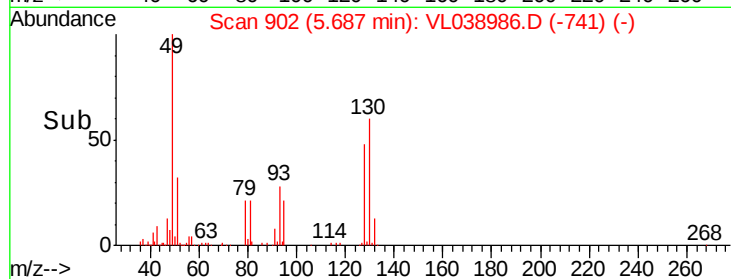
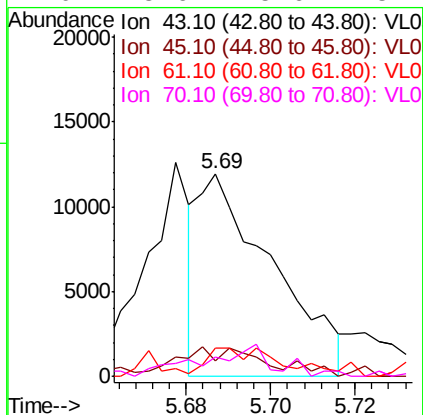
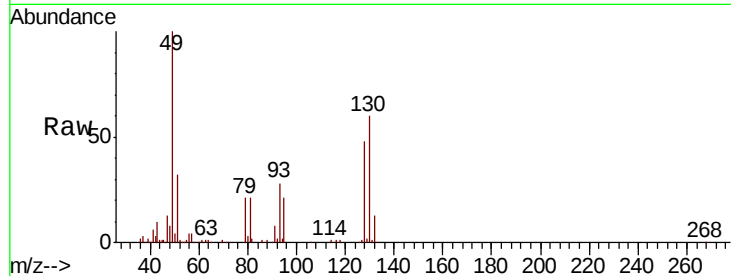
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





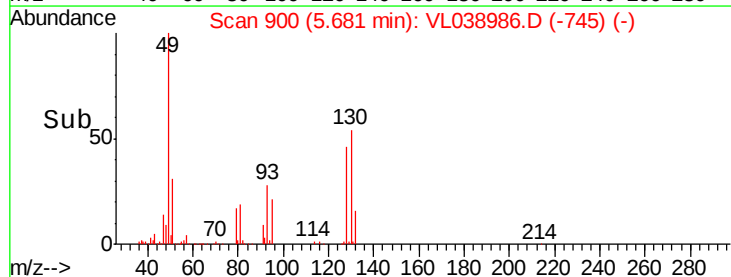
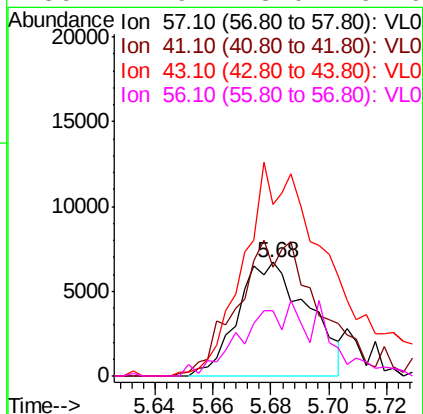
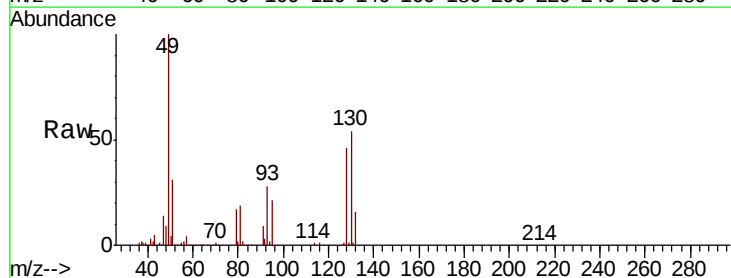
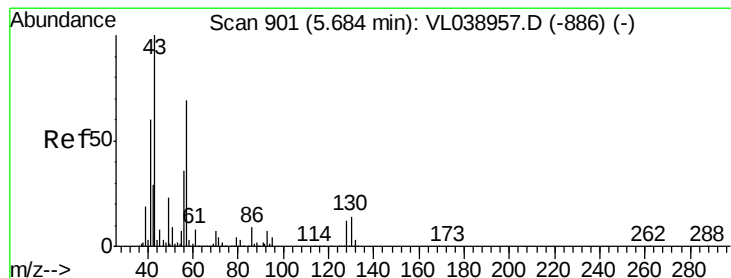
#25
Ethyl Acetate
Concen: 0.068 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VSTDCCC010EC
Acq: 5 May 2022 23:55

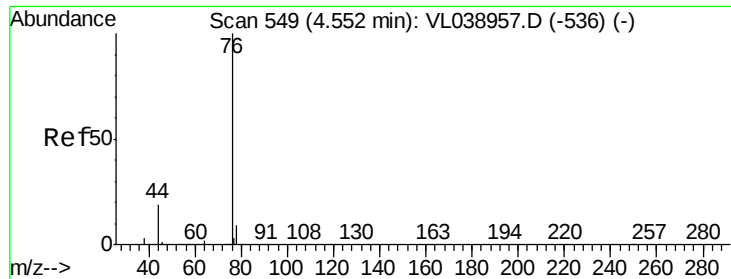
Tot Ion:	43	Resp:	14556
Ion	Ratio	Lower	Upper
43	100		
45	21.7	8.1	12.1#
61	25.4	7.8	11.6#
70	15.6	5.6	8.4#



#26
Hexane
Concen: 0.118 ppbv
RT: 5.68 min Scan# 900
Delta R.T.: -0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion:	57	Resp:	11346
Ion	Ratio	Lower	Upper
57	100		
41	150.0	75.2	112.8#
43	240.9	190.8	286.2
56	74.9	43.0	64.6#





#27

Carbon Disulfide

Concen: 0.042 ppbv

RT: 4.55 Instrument:

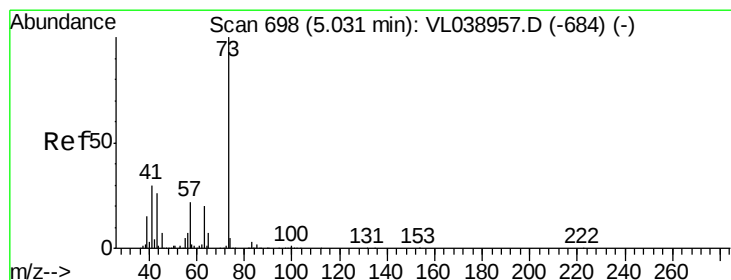
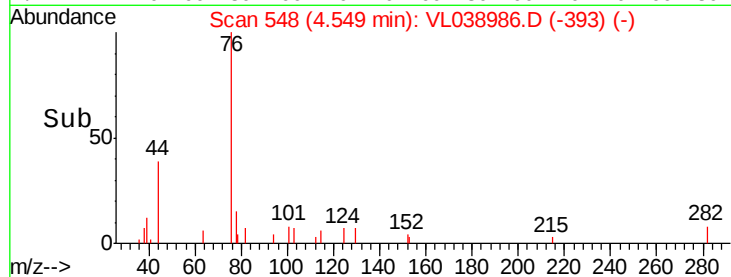
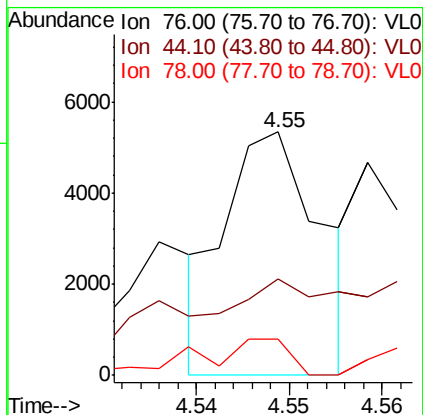
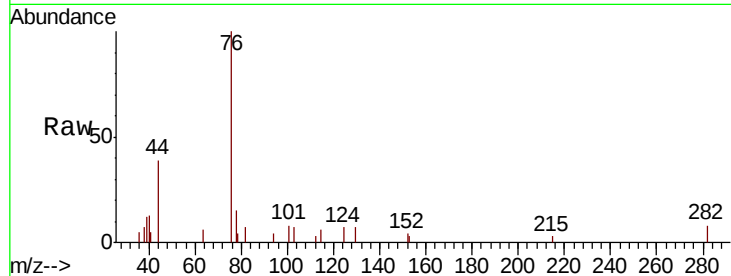
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 23:55 VSTDCCC010EC

Tot Ion: 76 Resp: 3820

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.3	22.9#
78	26.7	8.2	12.2#



#28

Methyl tert-Butyl Ether

Concen: 0.106 ppbv

RT: 5.05 min Scan# 703

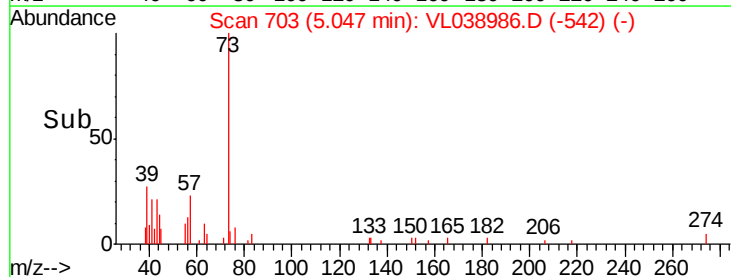
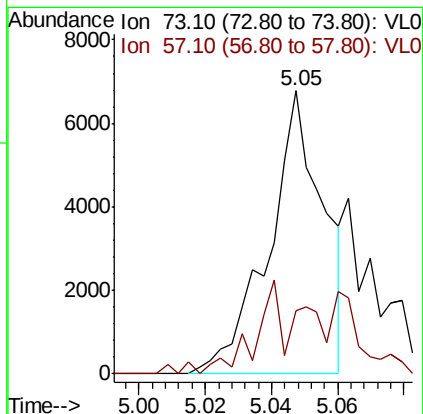
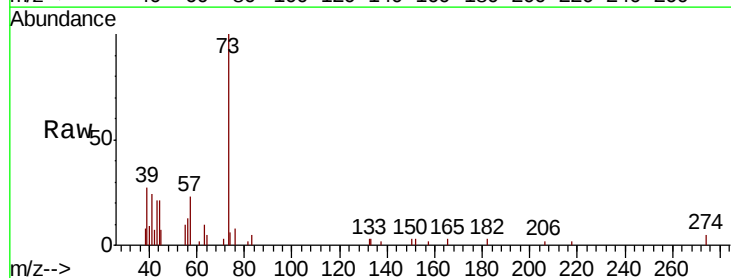
Delta R.T. 0.02 min

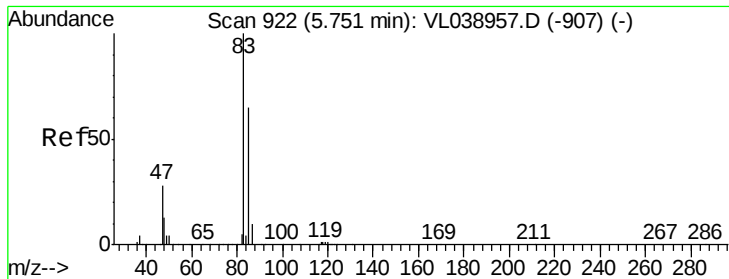
Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion: 73 Resp: 7716

Ion	Ratio	Lower	Upper
73	100		
57	45.0	18.8	28.2#





#29

Chloroform

Concen: 0.164 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

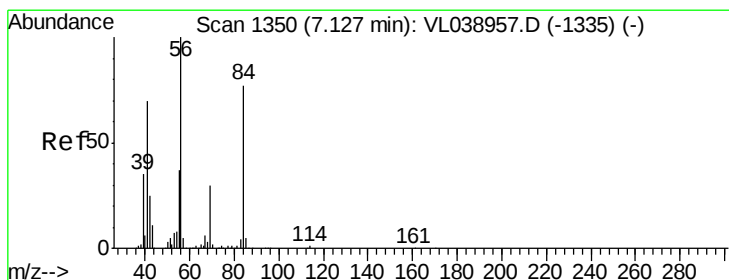
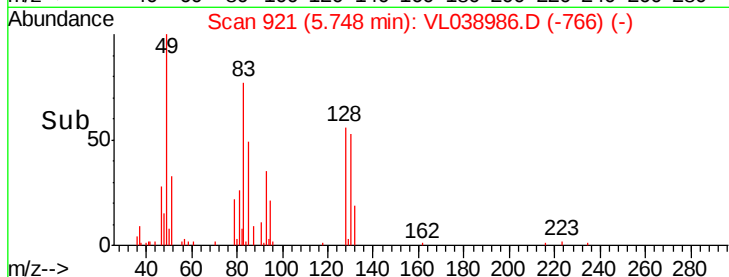
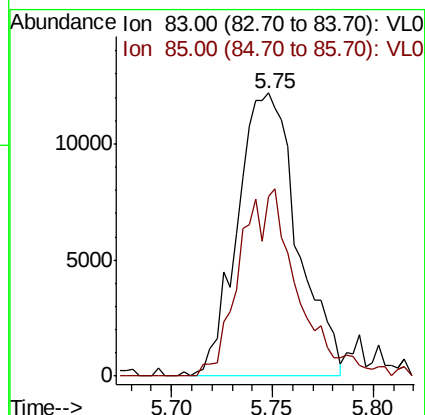
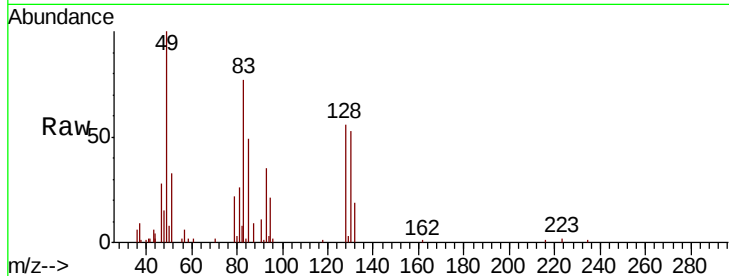
Acq: 5 May 2022 23:55 VSTDCCC010EC

Tot Ion: 83 Resp: 25383

Ion Ratio Lower Upper

83 100

85 63.6 51.8 77.6



#30

Cyclohexane

Concen: 0.048 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.00 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

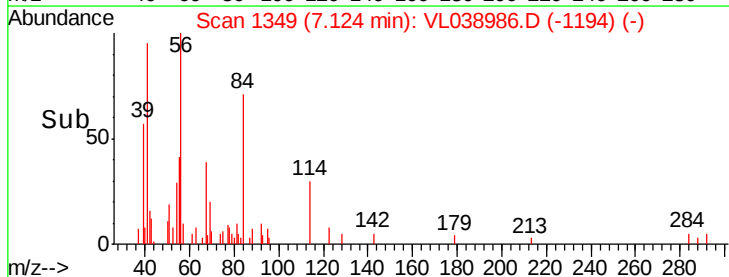
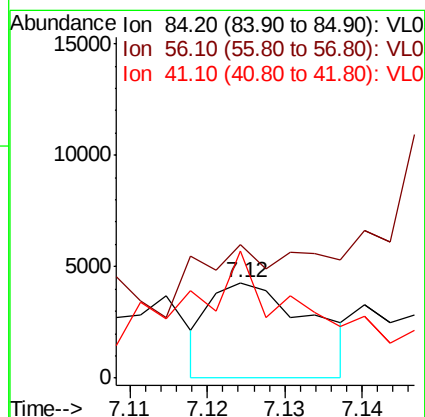
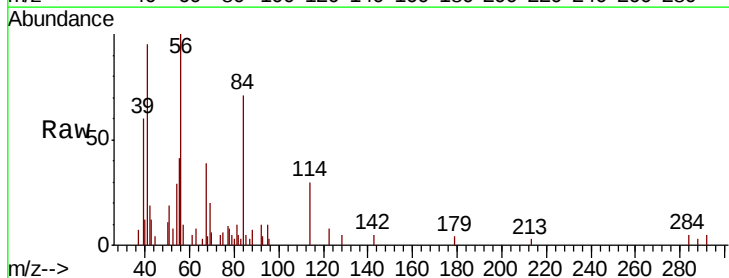
Tgt Ion: 84 Resp: 3858

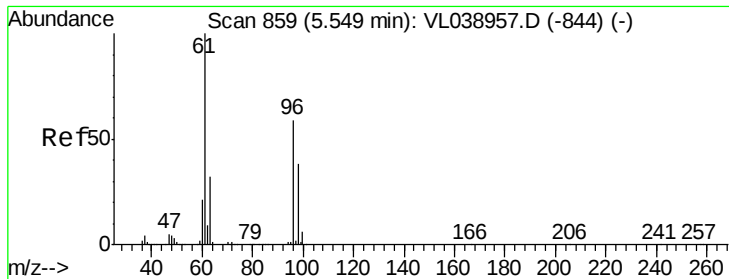
Ion Ratio Lower Upper

84 100

56 0.0 115.3 172.9#

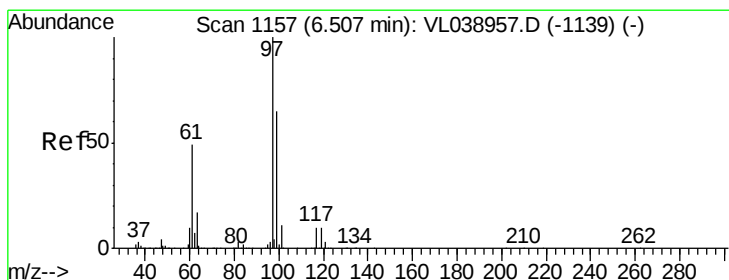
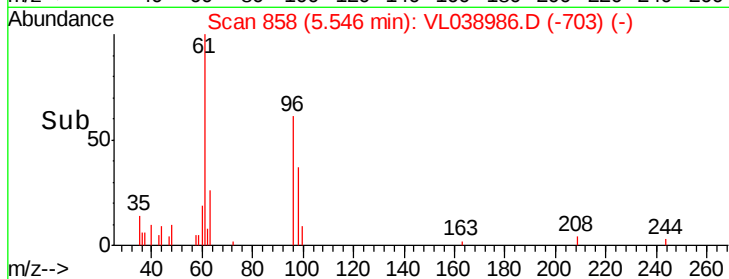
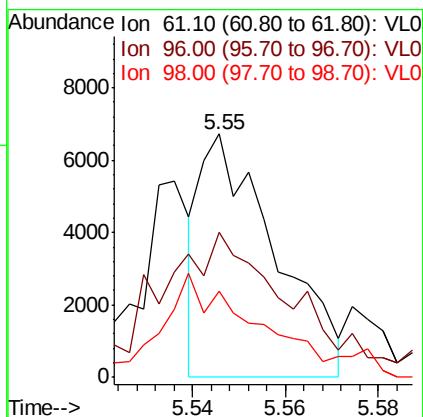
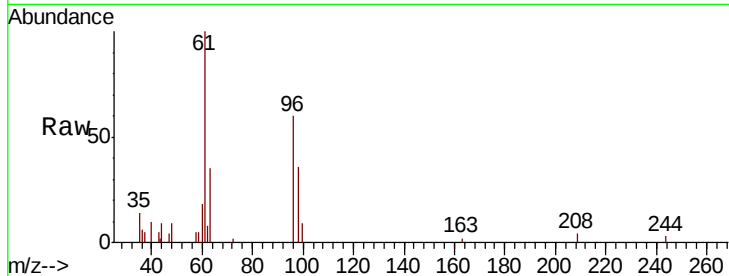
41 263.7 72.0 108.0#





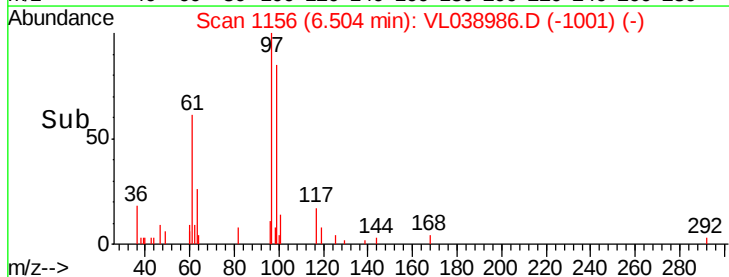
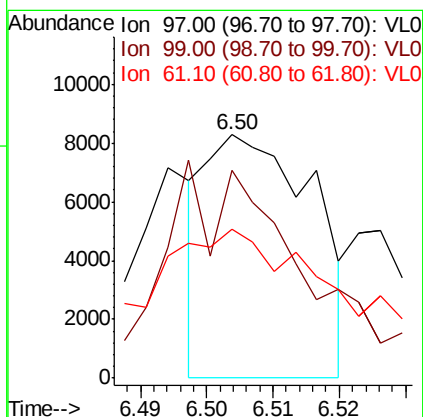
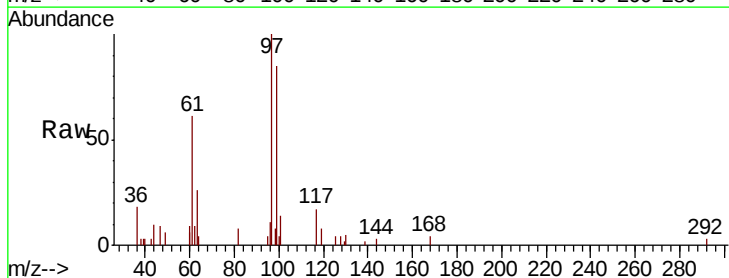
#31
 cis-1,2-Dichloroethene
 Concen: 0.077 ppbv
 RT: 5.55
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

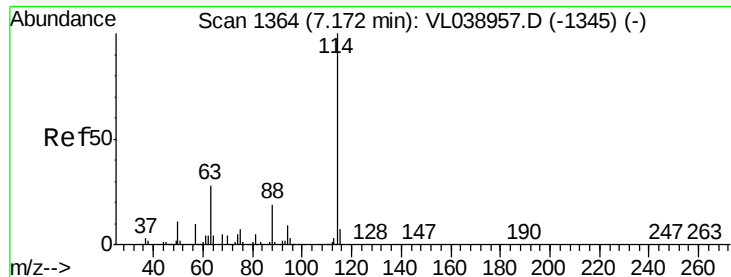
Tot Ion: 61 Resp: 7560
 Ion Ratio Lower Upper
 61 100
 96 57.8 47.4 71.0
 98 32.2 30.6 45.8



#32
 1,1,1-Trichloroethane
 Concen: 0.060 ppbv
 RT: 6.50 min Scan# 1156
 Delta R.T.: -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion: 97 Resp: 9317
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.9 77.9#
 61 122.8 40.9 61.3#

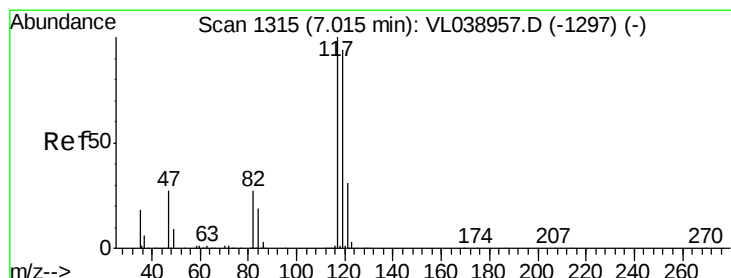
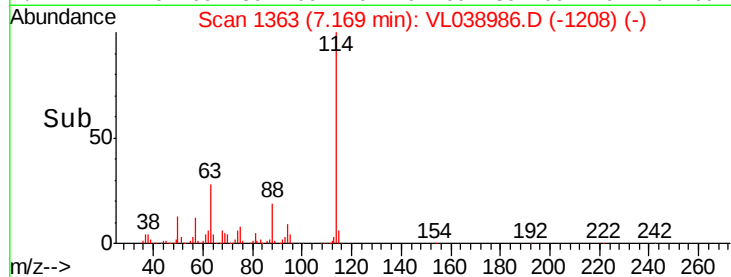
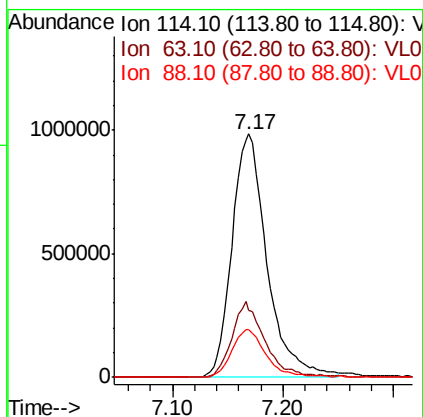
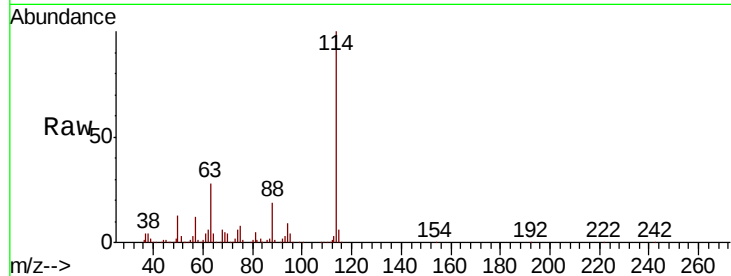




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

Tot Ion:114 Resp: 2164977

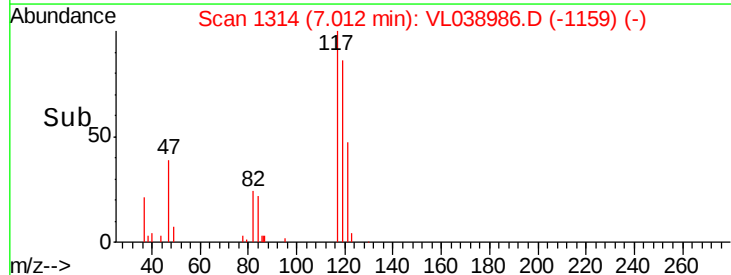
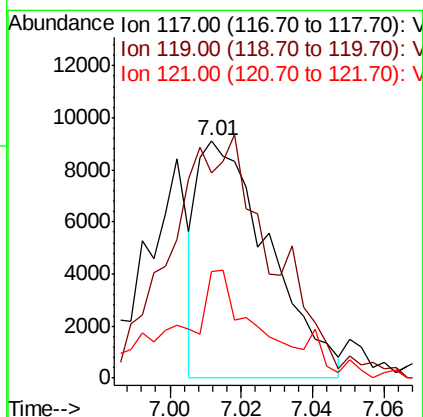
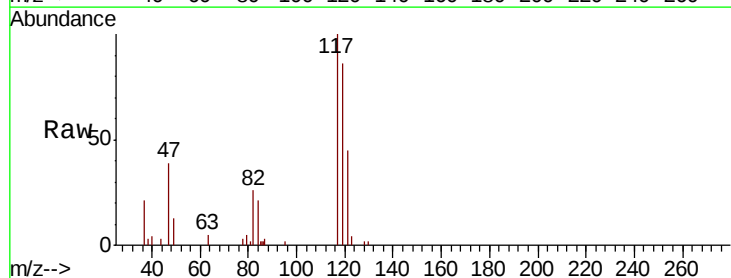
Ion	Ratio	Lower	Upper
114	100		
63	29.7	22.6	33.8
88	19.5	15.4	23.0

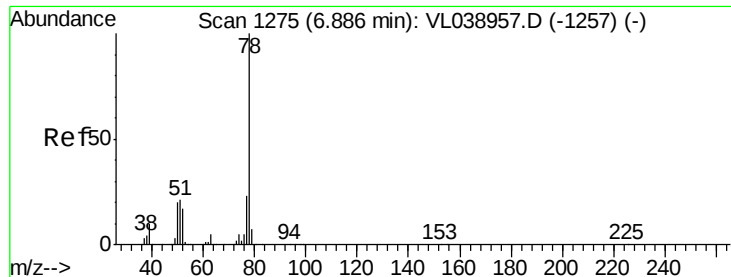


#35
 Carbon Tetrachloride
 Concen: 0.089 ppbv
 RT: 7.01 min Scan# 1314
 Delta R.T.: -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion:117 Resp: 12642

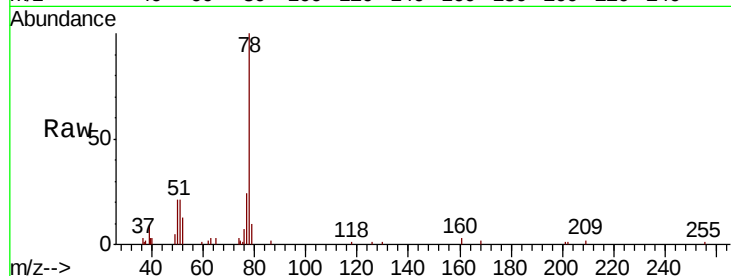
Ion	Ratio	Lower	Upper
117	100		
119	90.4	75.2	112.8
121	46.9	24.6	37.0



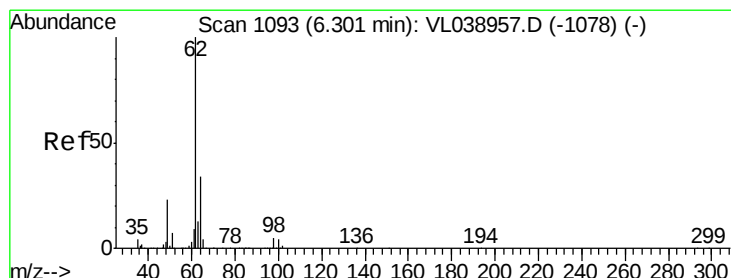
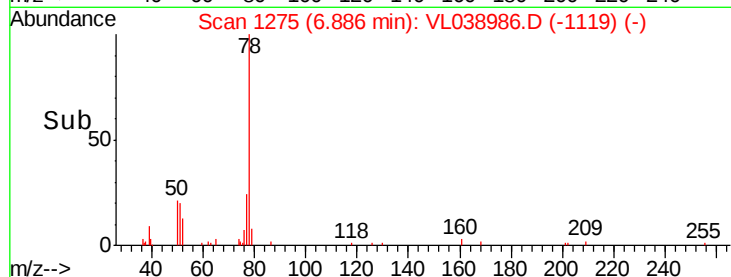
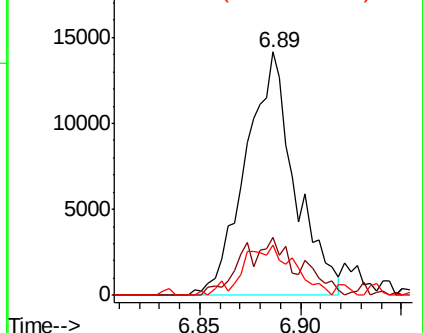


#36
Benzene
Concen: 0.130 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 23:55

Tot Ion: 78 Resp: 24007
Ion Ratio Lower Upper
78 100
77 23.7 18.6 28.0
50 20.7 15.6 23.4

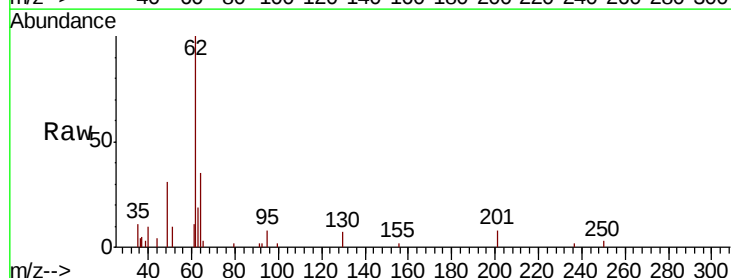


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

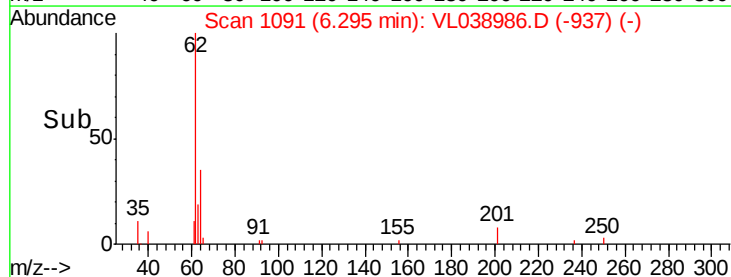
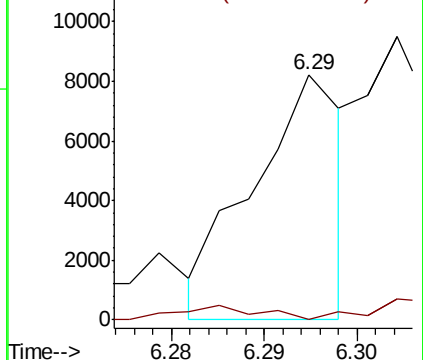


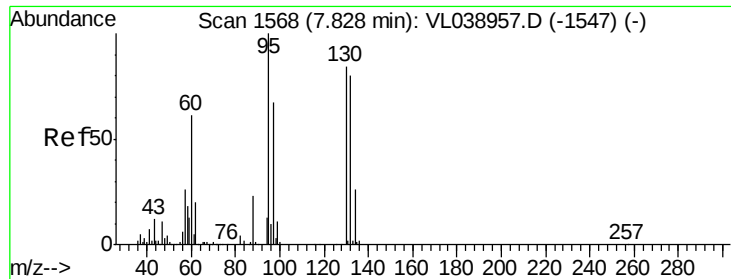
#37
1,2-Dichloroethane
Concen: 0.048 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion: 62 Resp: 5546
Ion Ratio Lower Upper
62 100
98 0.0 4.5 6.7#



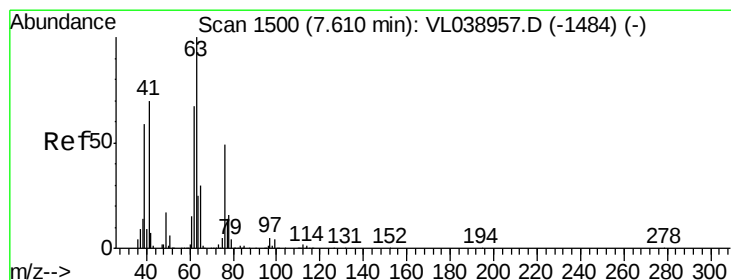
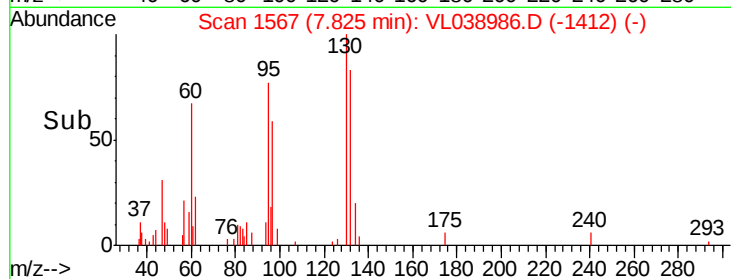
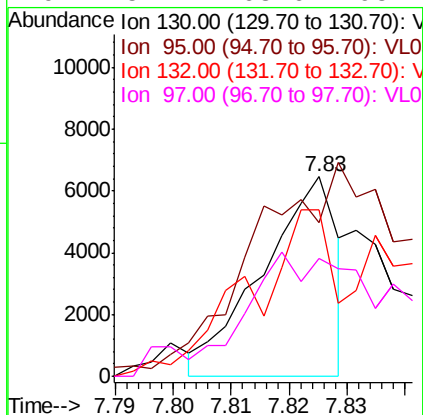
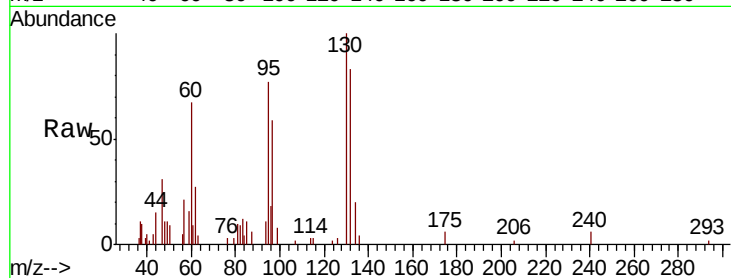
Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





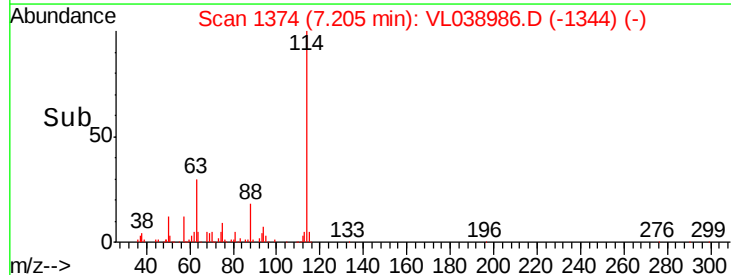
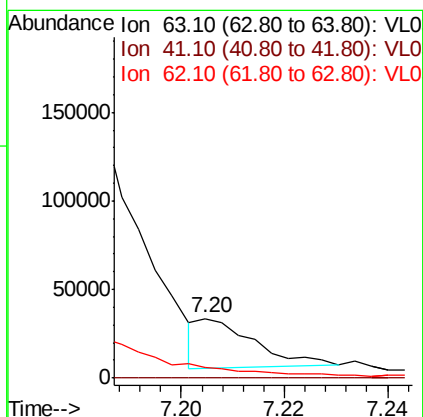
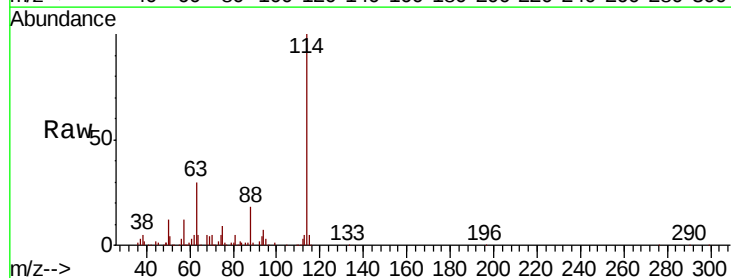
#38
 Trichloroethene
 Concen: 0.070 ppbv
 RT: 7.83
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

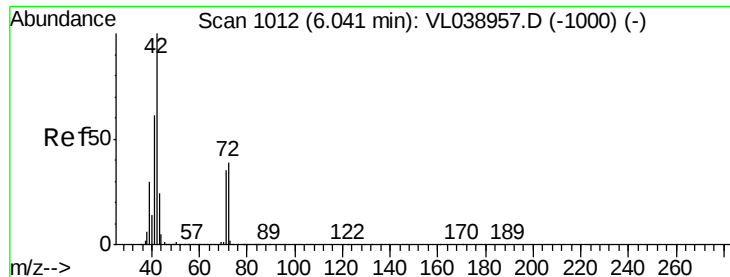
Tot Ion:130 Resp: 5774
 Ion Ratio Lower Upper
 130 100
 95 67.9 94.8 142.2#
 132 79.2 75.8 113.8
 97 57.2 63.6 95.4#



#39
 1,2-Dichloropropane
 Concen: 0.291 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. -0.41 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion: 63 Resp: 20982
 Ion Ratio Lower Upper
 63 100
 41 0.9 55.9 83.9#
 62 16.2 53.8 80.6#





#41

Tetrahydrofuran

Concen: 0.040 ppbv

RT: 6.08 Instrument: MSVOA_1

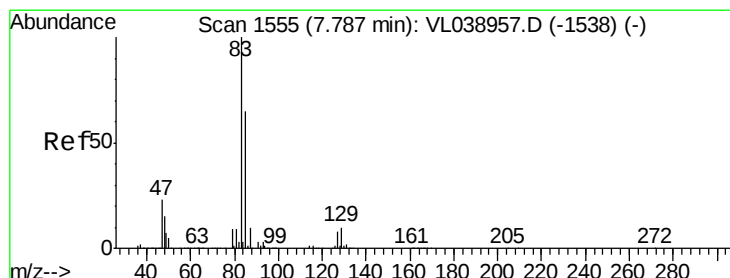
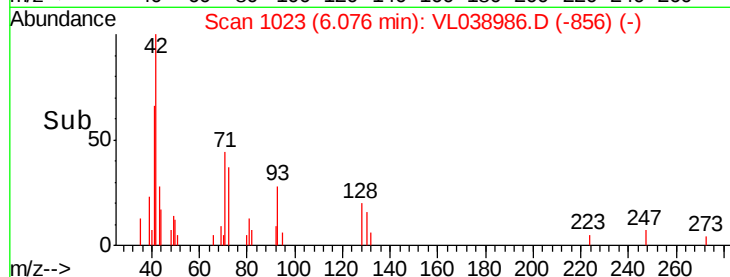
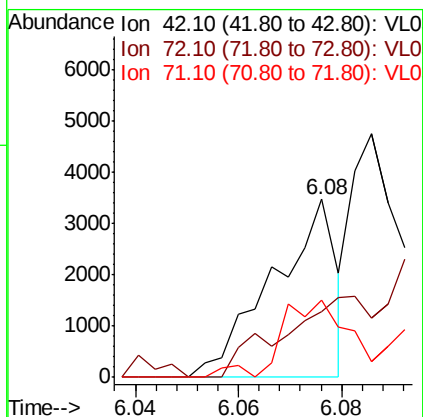
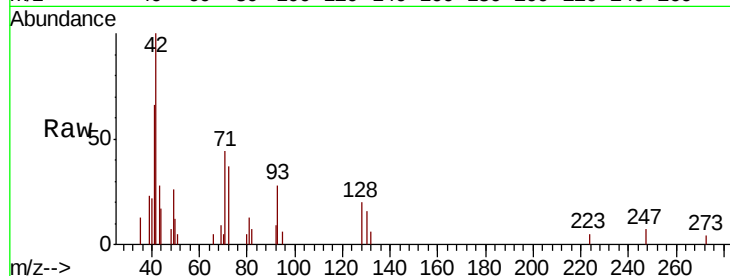
Delta R.T. 0.00 min

Lab File: ClientSampleId: VSTDCCC010EC

Acq: 5 May 2022 23:55

Tot Ion: 42 Resp: 2971

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.8	47.6#
71	84.7	30.6	45.8#



#42

Bromodichloromethane

Concen: 0.060 ppbv

RT: 7.79 min Scan# 1555

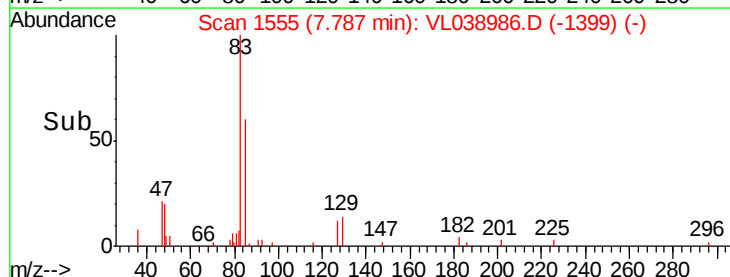
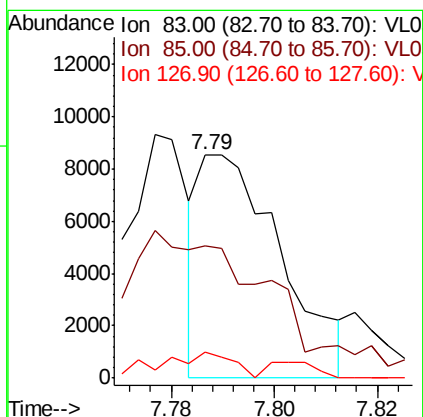
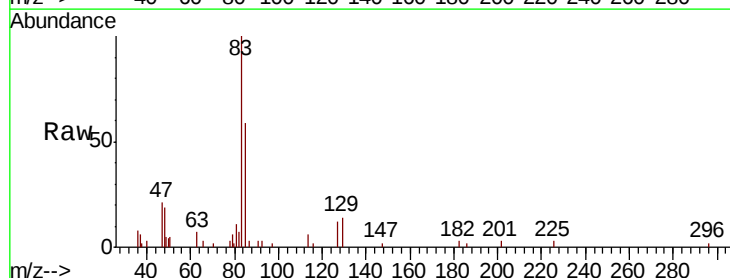
Delta R.T. 0.00 min

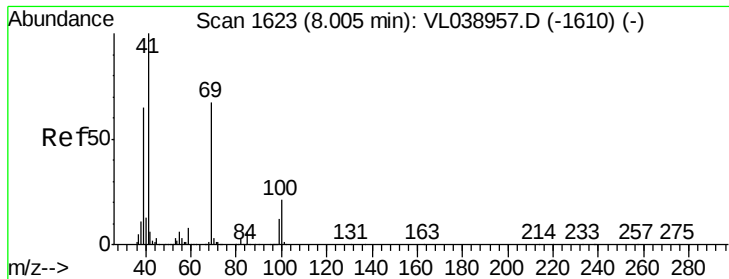
Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion: 83 Resp: 9380

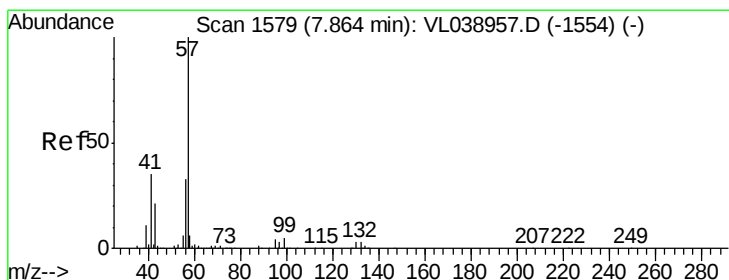
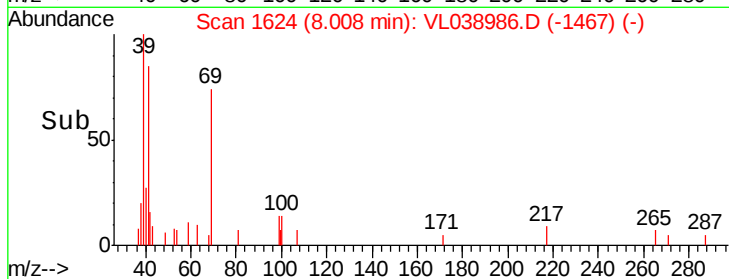
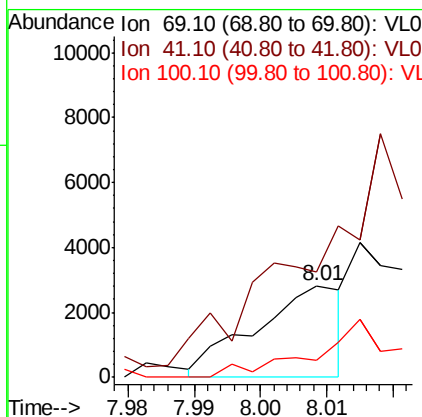
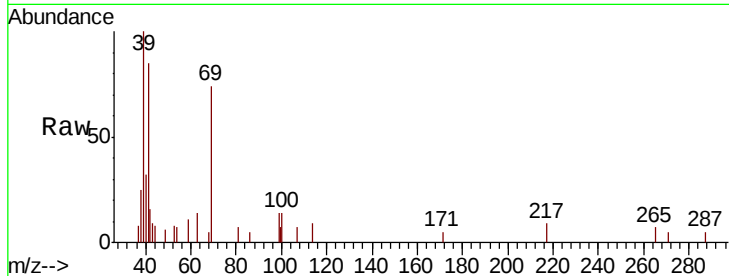
Ion	Ratio	Lower	Upper
83	100		
85	60.2	52.0	78.0
127	15.9	6.0	9.0#





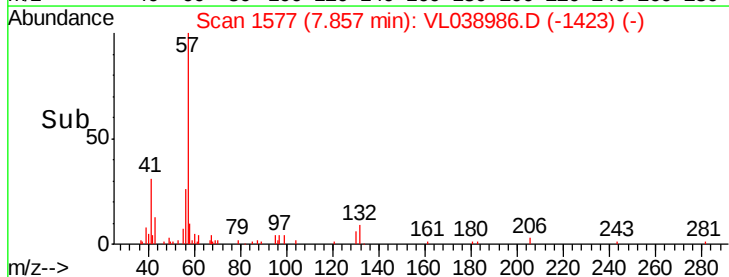
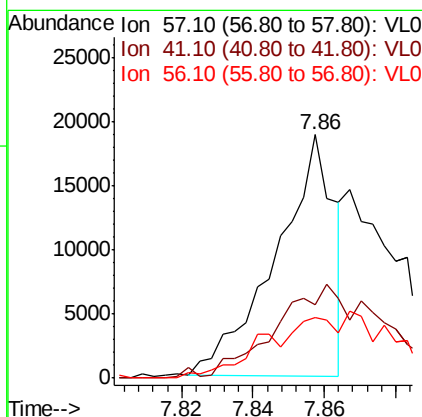
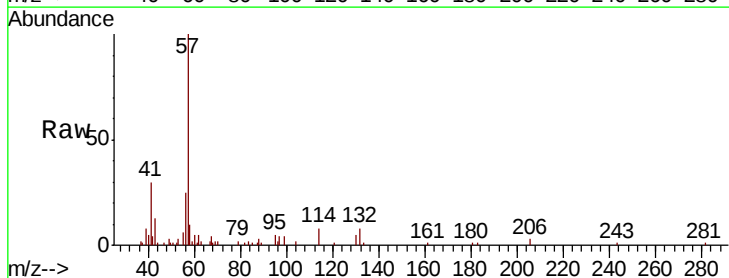
#43
Methvl Methacrilate
Concen: 0.034 ppbv
RT: 8.01
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: VSTDCCC010EC
Acq: 5 May 2022 23:55

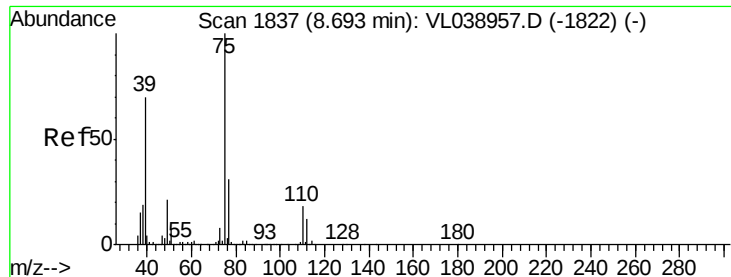
Tot Ion: 69 Resp: 2575
Ion Ratio Lower Upper
69 100
41 0.0 121.9 182.9#
100 0.0 24.6 36.8#



#44
2,2,4-Trimethylpentane
Concen: 0.066 ppbv
RT: 7.86 min Scan# 1577
Delta R.T. -0.01 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

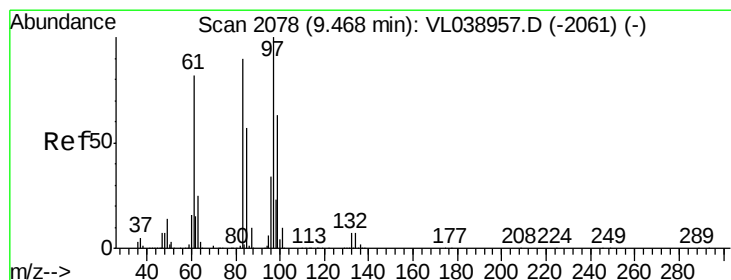
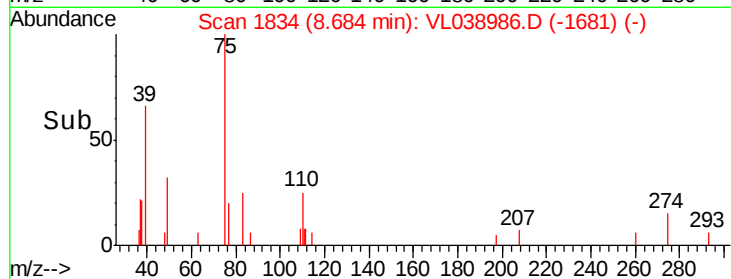
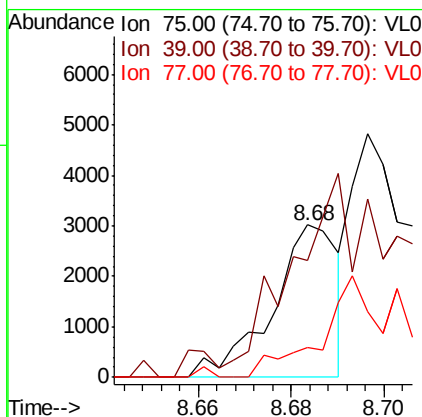
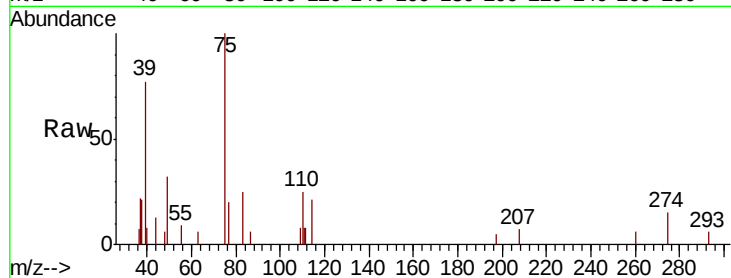
Tgt Ion: 57 Resp: 21365
Ion Ratio Lower Upper
57 100
41 78.0 26.3 39.5#
56 0.0 24.6 37.0#





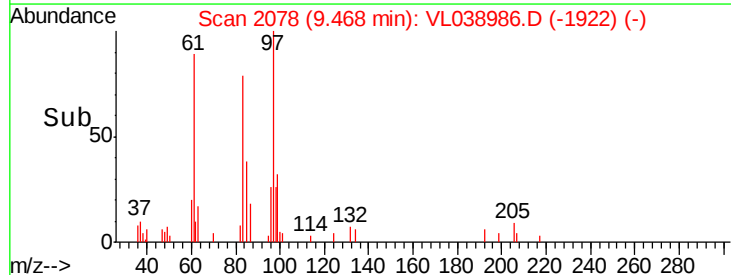
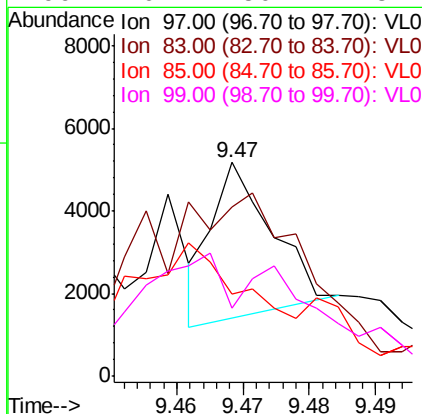
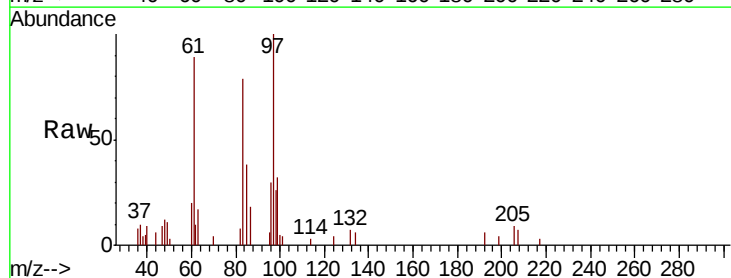
#46
 cis-1,3-Dichloropropene
 Concen: 0.031 ppbv
 RT: 8.68 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: VSTDCCC010EC
 Acq: 5 May 2022 23:55

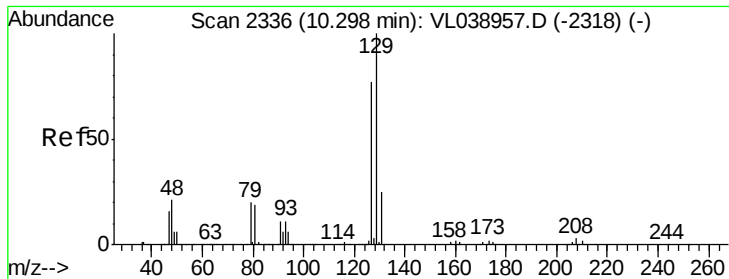
Tot Ion: 75 Resp: 2961
 Ion Ratio Lower Upper
 75 100
 39 58.8 55.8 83.6
 77 19.5 24.8 37.2#



#47
 1,1,2-Trichloroethane
 Concen: 0.032 ppbv
 RT: 9.47 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion: 97 Resp: 2382
 Ion Ratio Lower Upper
 97 100
 83 72.2 72.0 108.0
 85 9.4 45.7 68.5#
 99 20.2 50.2 75.4#





#48

Dibromochloromethane

Concen: 0.038 ppbv

RT: 10.30

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

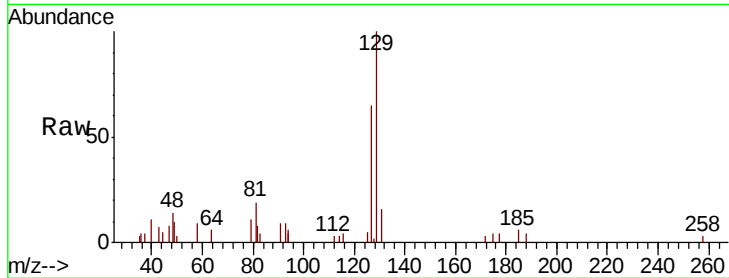
Acq: 5 May 2022 23:55

Tot Ion:129 Resp: 4617

Ion Ratio Lower Upper

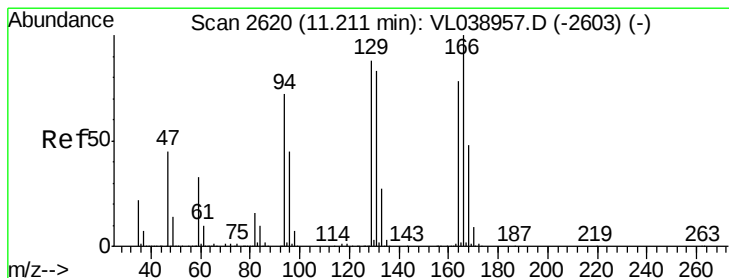
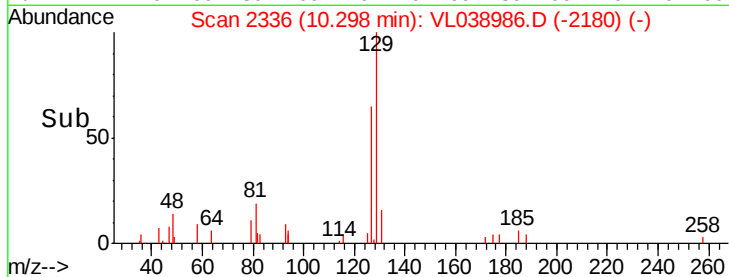
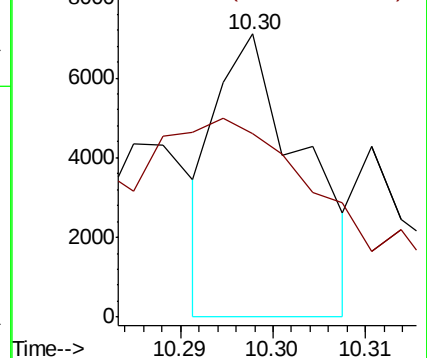
129 100

127 243.8 39.3 117.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#52

Tetrachloroethene

Concen: 0.080 ppbv

RT: 11.21 min Scan# 2619

Delta R.T. -0.00 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion:164 Resp: 5265

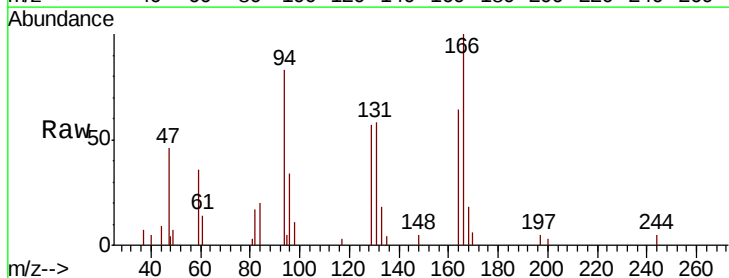
Ion Ratio Lower Upper

164 100

166 114.2 102.5 153.7

129 58.4 90.1 135.1#

131 61.7 84.8 127.2#

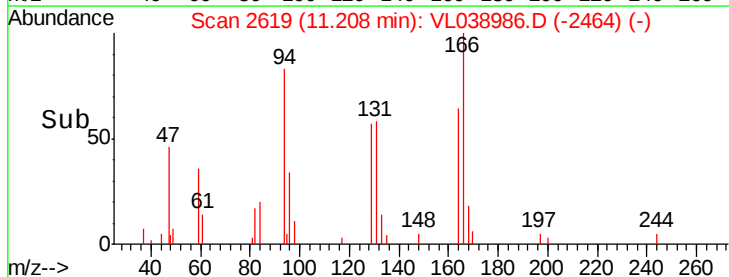
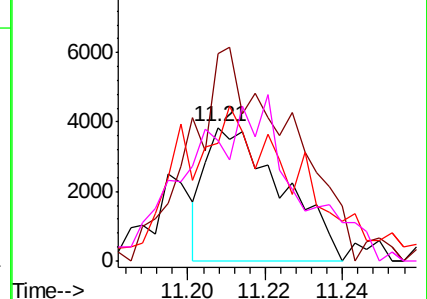


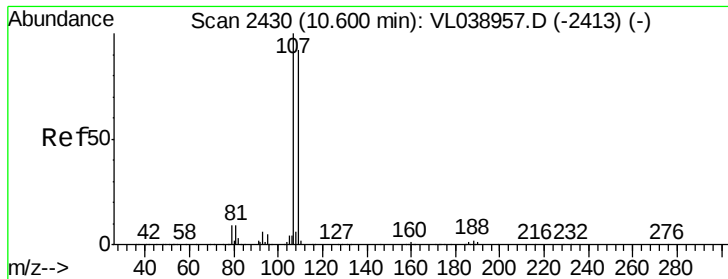
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

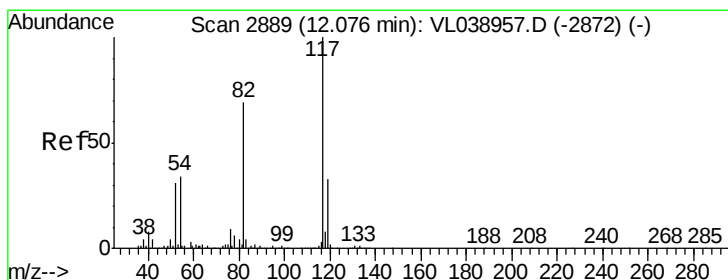
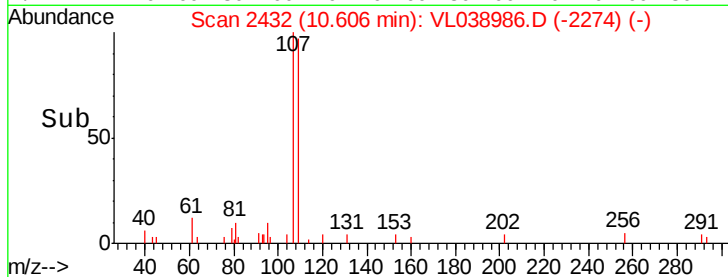
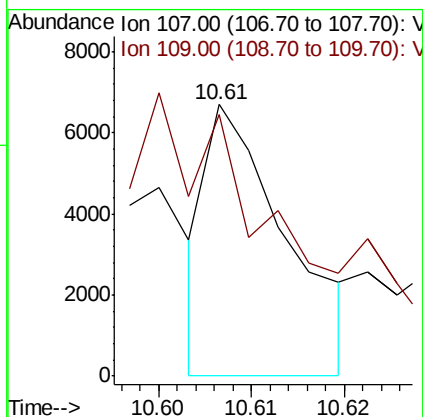
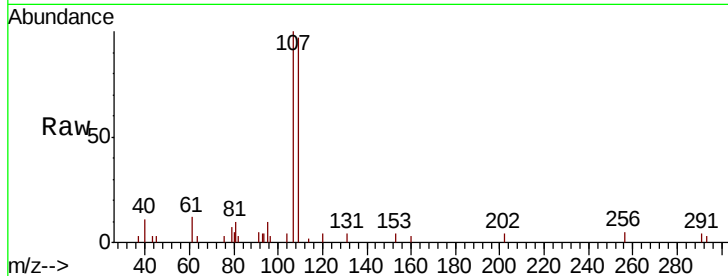
Ion 131.00 (130.70 to 131.70): V





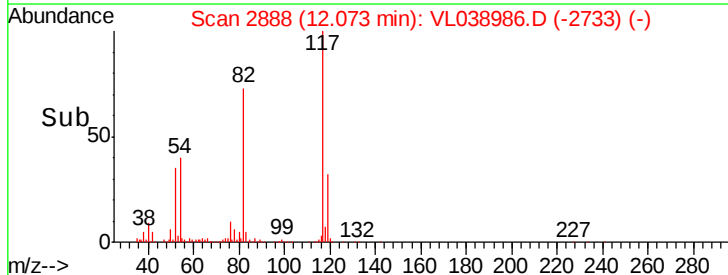
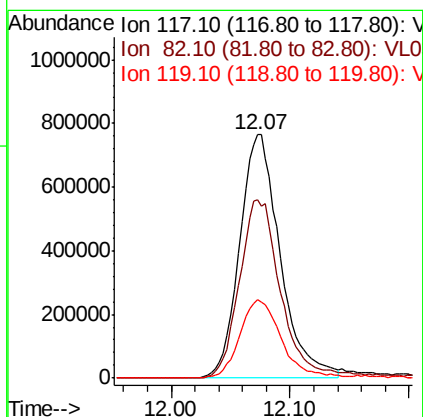
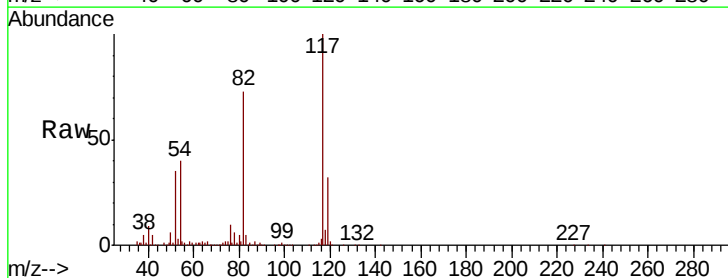
#54
 1,2-Dibromoethane
 Concen: 0.039 ppbv
 RT: 10.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

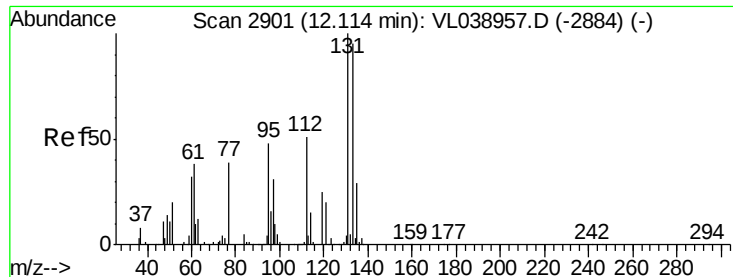
Tot Ion:107 Resp: 4020
 Ion Ratio Lower Upper
 107 100
 109 89.5 73.8 110.8



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2888
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

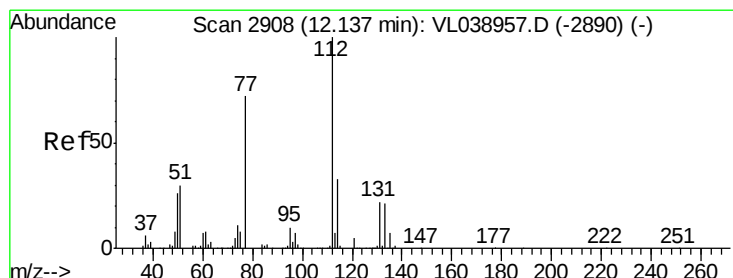
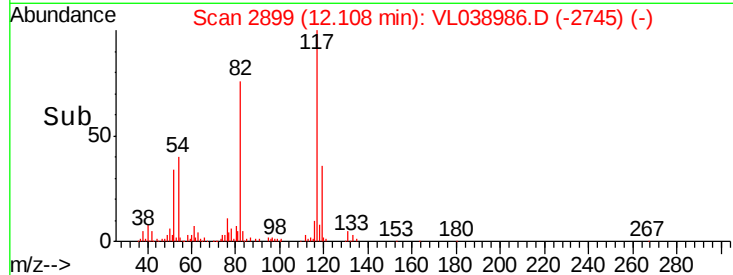
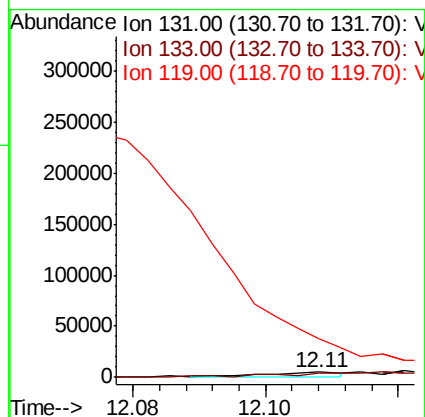
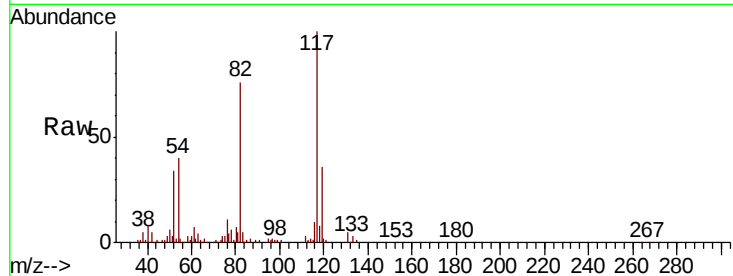
Tgt Ion:117 Resp: 1804301
 Ion Ratio Lower Upper
 117 100
 82 76.8 57.0 85.6
 119 33.9 27.2 40.8





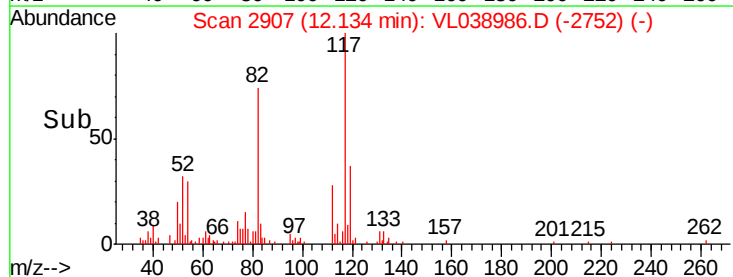
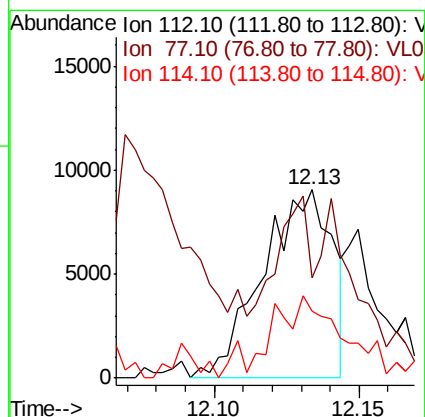
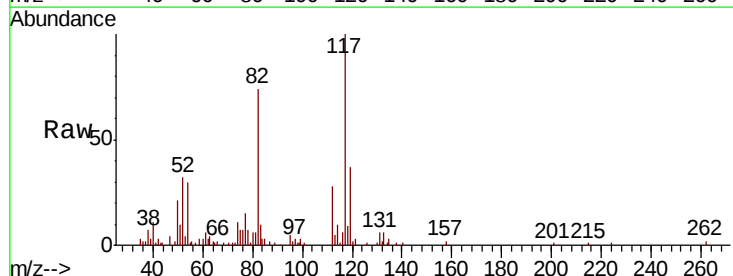
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.052 ppbv
 RT: 12.11 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

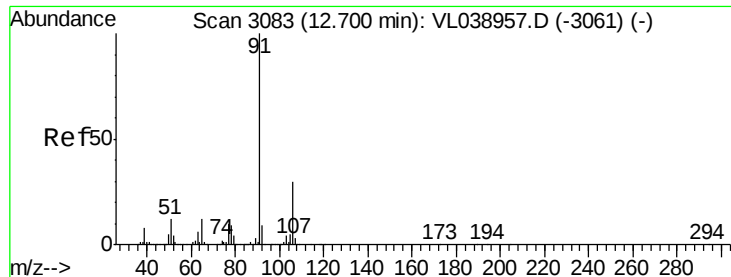
Tot Ion:131 Resp: 4123
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.9 115.3#
 119 0.0 47.4 71.0#



#57
 Chlorobenzene
 Concen: 0.112 ppbv
 RT: 12.13 min Scan# 2907
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

Tgt Ion:112 Resp: 15180
 Ion Ratio Lower Upper
 112 100
 77 0.0 57.7 86.5#
 114 24.1 30.1 36.7#





#58

Ethyl Benzene

Concen: 0.038 ppbv

RT: 12.71 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

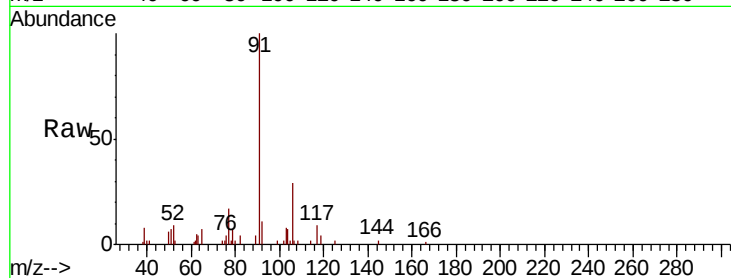
Acq: 5 May 2022 23:55

Tot Ion: 91 Resp: 9773

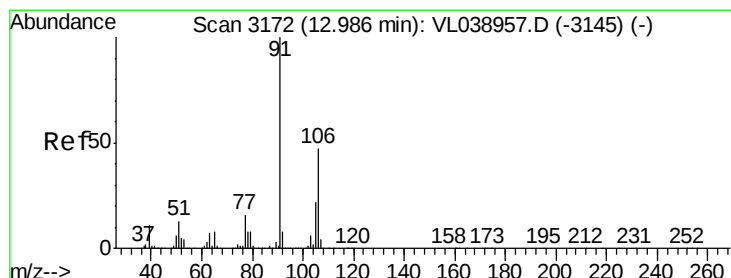
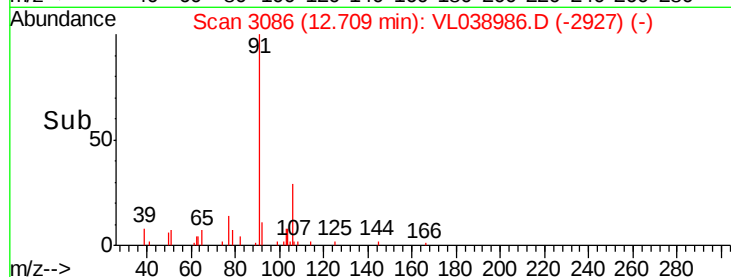
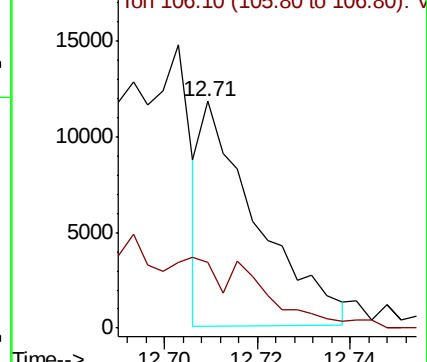
Ion Ratio Lower Upper

91 100

106 31.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0



#59

m/p-Xylene

Concen: 0.051 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL038986.D

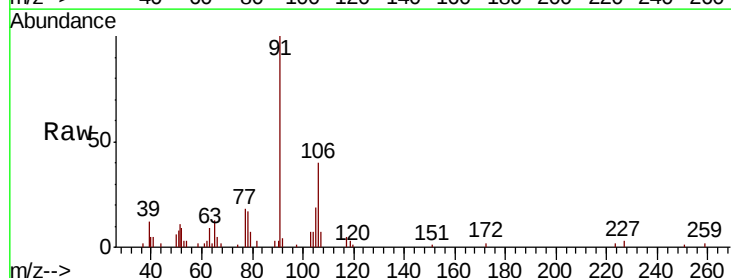
Acq: 5 May 2022 23:55

Tgt Ion: 91 Resp: 11375

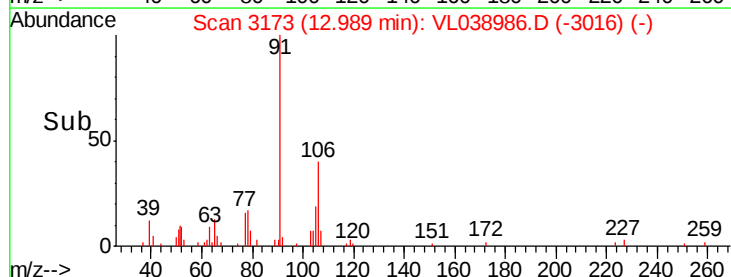
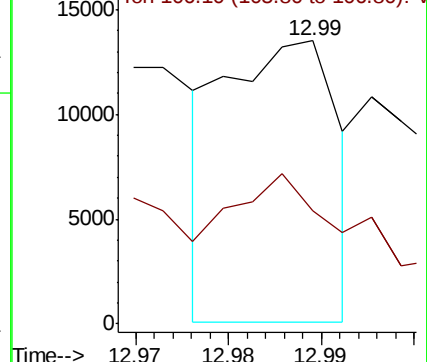
Ion Ratio Lower Upper

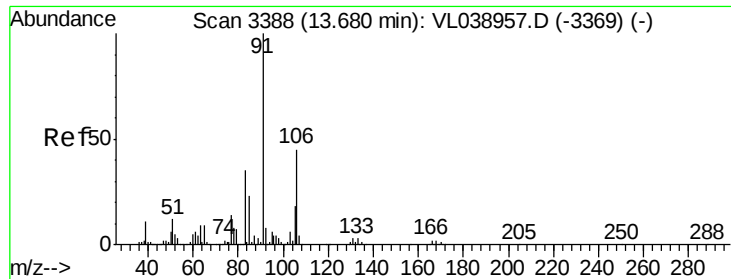
91 100

106 206.8 34.6 52.0#



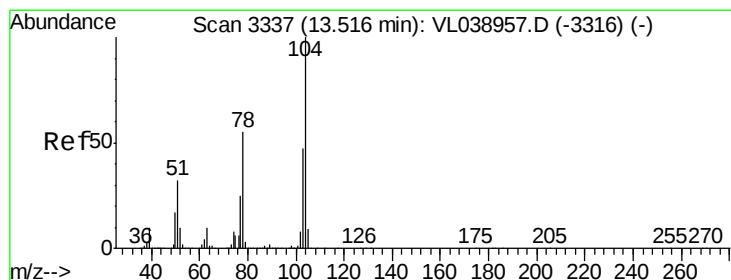
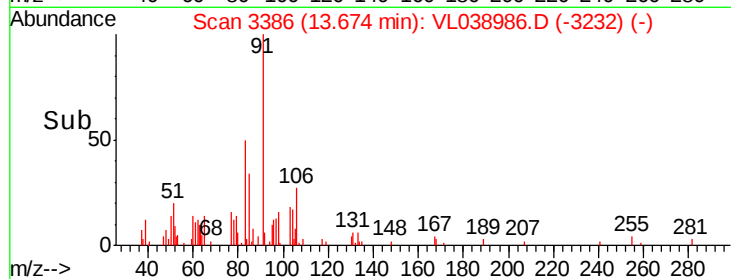
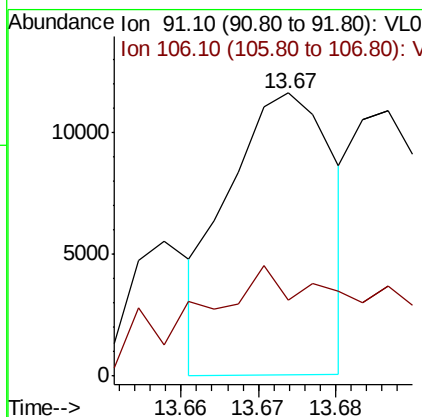
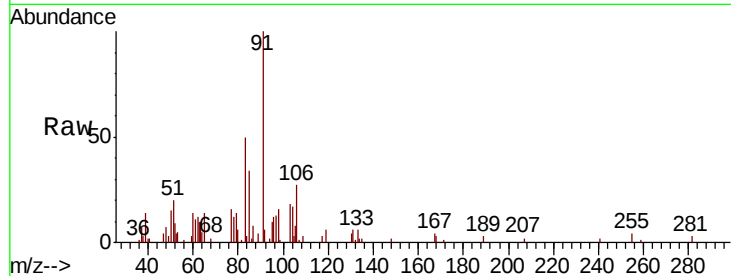
Abundance Ion 91.10 (90.80 to 91.80): VL0





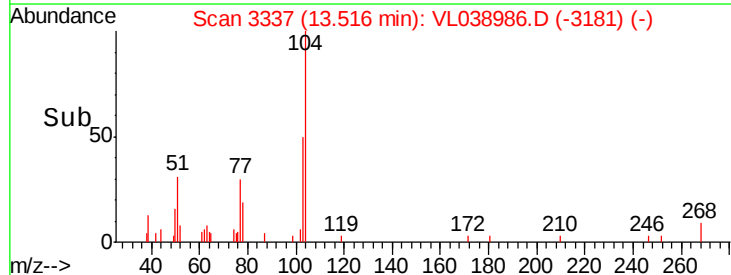
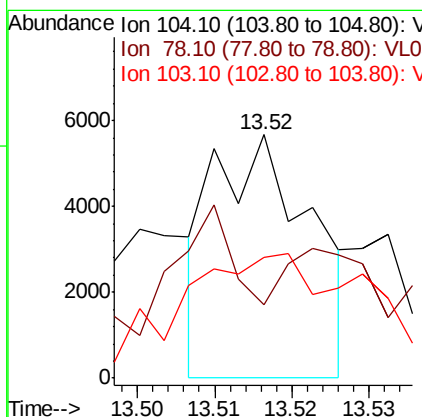
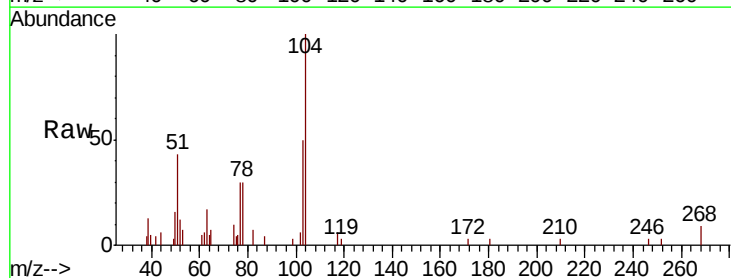
#60
o-Xylene
Concen: 0.052 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 23:55

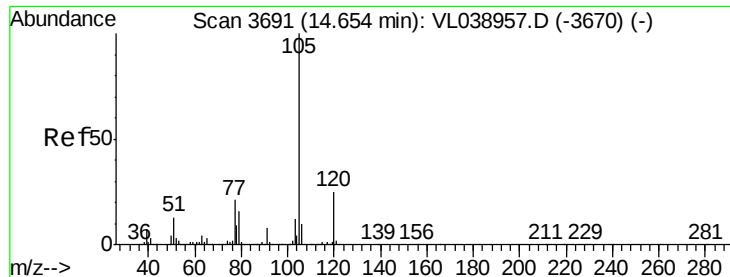
Tot Ion: 91 Resp: 10885
Ion Ratio Lower Upper
91 100
106 99.8 22.2 66.6#



#61
Styrene
Concen: 0.045 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. 0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion:104 Resp: 4959
Ion Ratio Lower Upper
104 100
78 154.2 46.4 69.6#
103 128.4 39.3 58.9#





#62

Isopropylbenzene

Concen: 0.059 ppbv

RT: 14.65

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

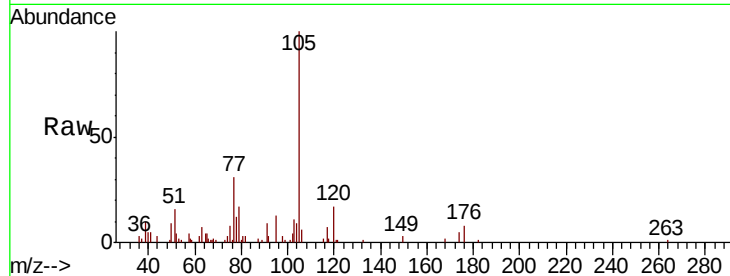
Acq: 5 May 2022 23:55

Tot Ion: 105 Resp: 15656

Ion Ratio Lower Upper

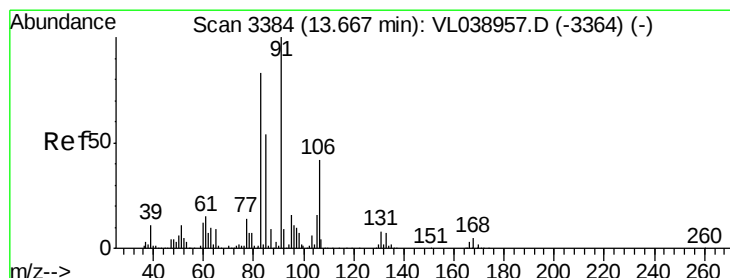
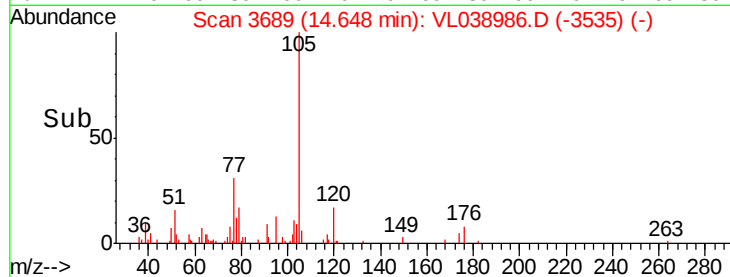
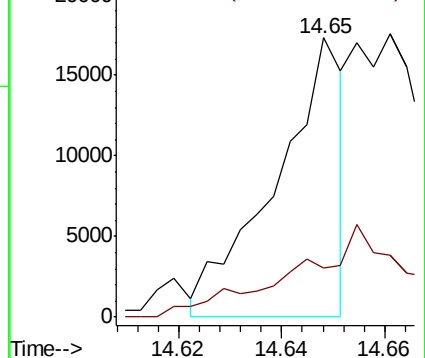
105 100

120 0.0 20.5 30.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

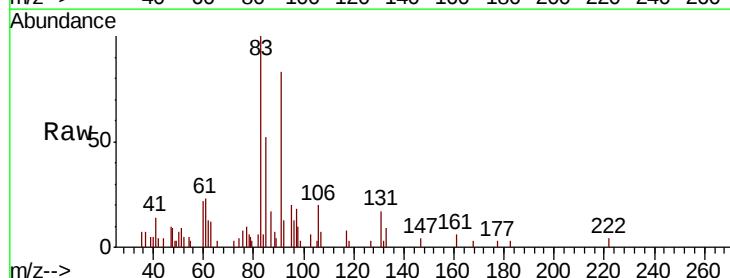
Tgt Ion: 83 Resp: 5690

Ion Ratio Lower Upper

83 100

131 34.8 4.5 13.7#

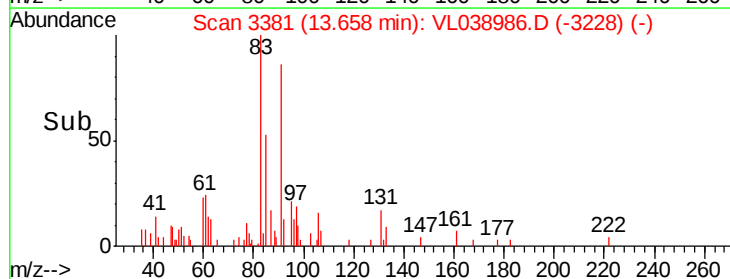
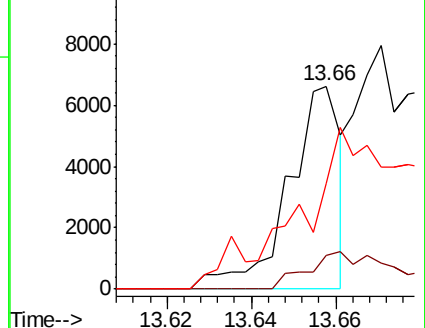
85 228.8 32.8 98.3#

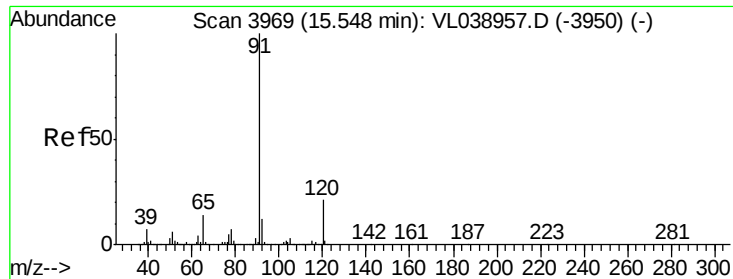


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 0.050 ppbv

RT: 15.55 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

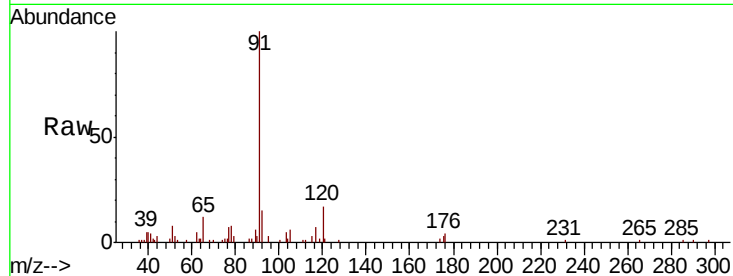
Acq: 5 May 2022 23:55

Tot Ion:120 Resp: 3685

Ion Ratio Lower Upper

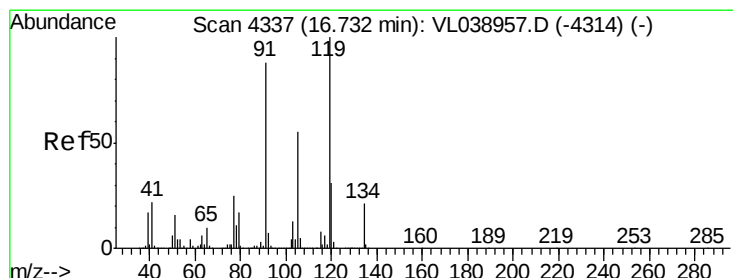
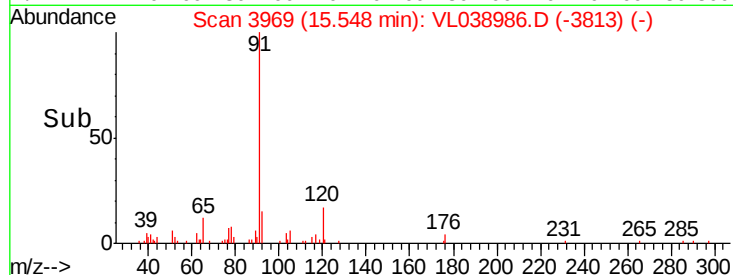
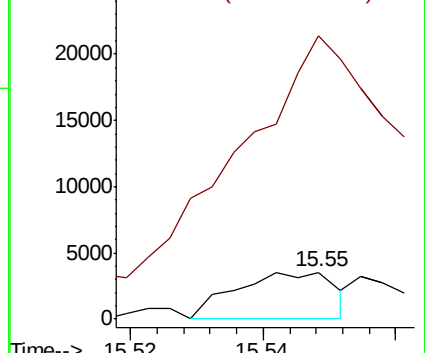
120 100

91 1482.6 400.6 601.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.036 ppbv

RT: 16.73 min Scan# 4338

Delta R.T. 0.00 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

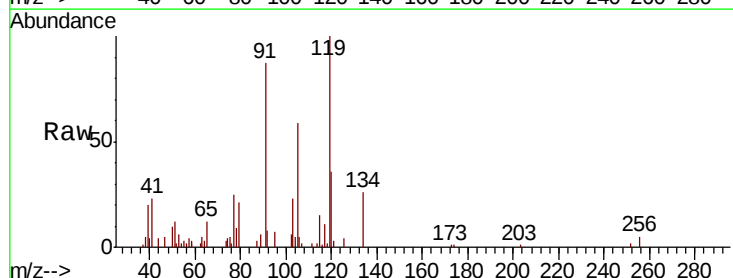
Tgt Ion:119 Resp: 9576

Ion Ratio Lower Upper

119 100

91 0.0 69.4 104.2#

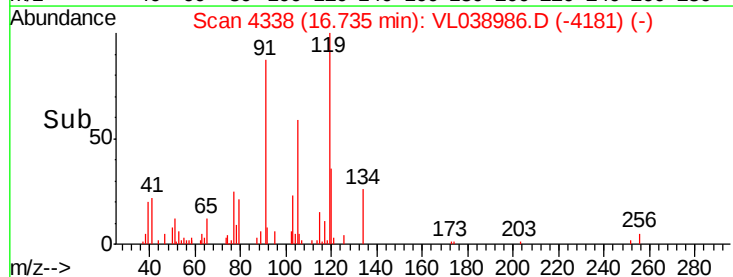
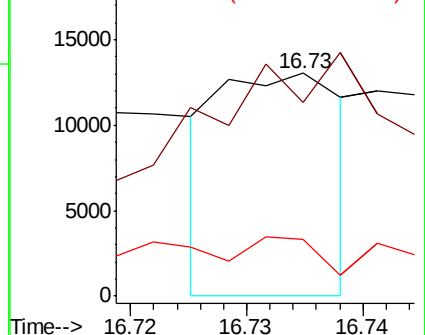
134 78.8 15.8 23.8#

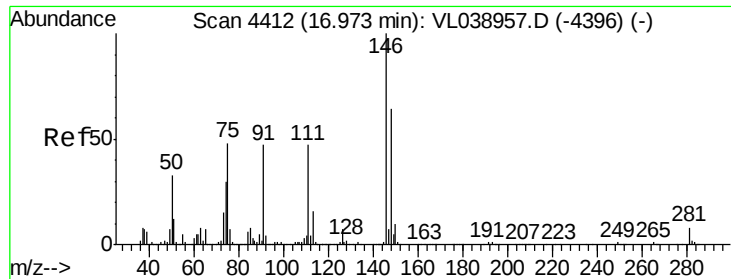


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

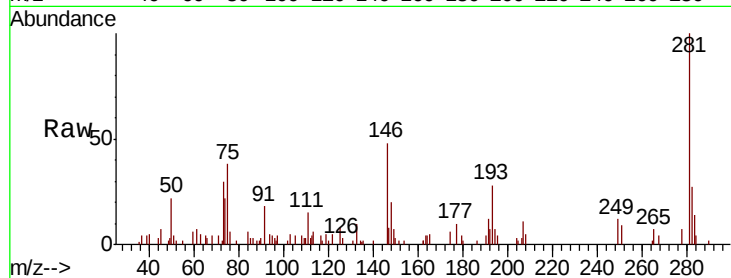
Ion 134.20 (133.90 to 134.90): V





#66
Benzyl Chloride
Concen: 0.035 ppbv
RT: 16.97 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : VSTDCCC010EC
Acq: 5 May 2022 23:55

Tot Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.2	6.2#

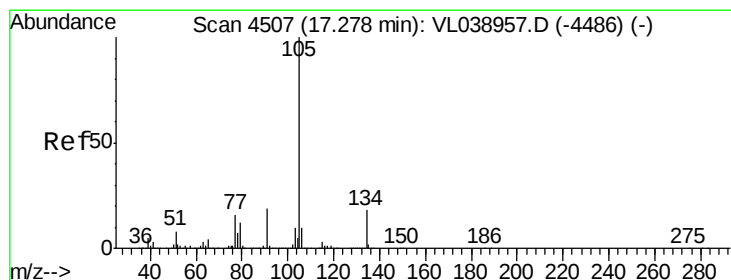
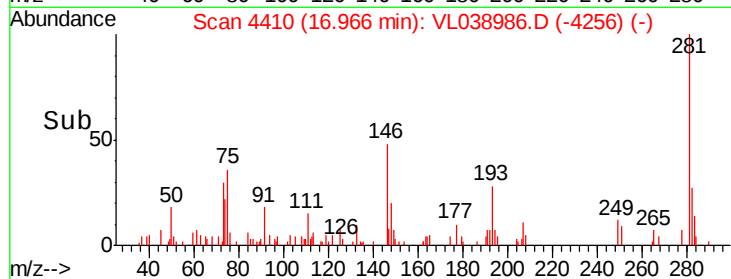
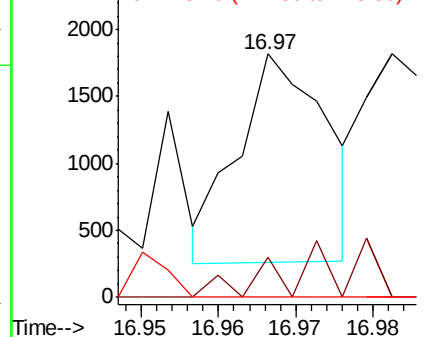


Abundance

Ion 91.10 (90.80 to 91.80): VL038957.D (-4396) (-)

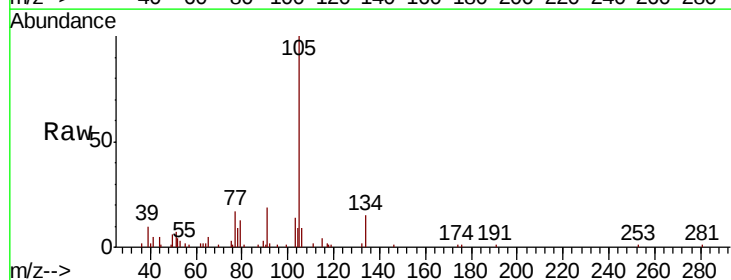
Ion 126.10 (125.80 to 126.80): VL038957.D (-4396) (-)

Ion 128.10 (127.80 to 128.80): VL038957.D (-4396) (-)



#67
sec-Butylbenzene
Concen: 0.092 ppbv
RT: 17.28 min Scan# 4507
Delta R.T.: 0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

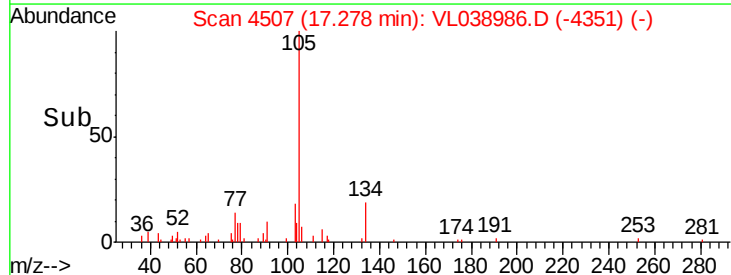
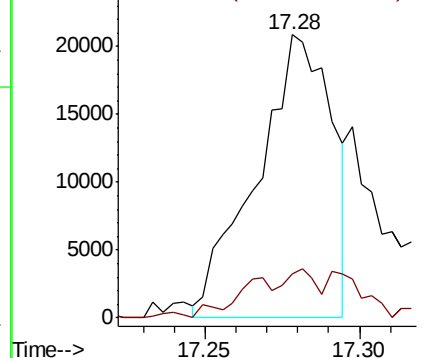
Tgt Ion	Ratio	Lower	Upper
105	100		
134	24.7	14.2	21.4#

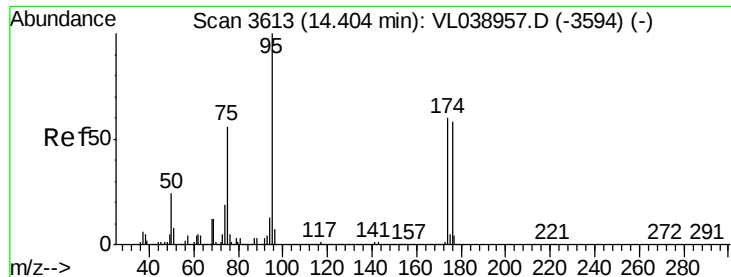


Abundance

Ion 105.10 (104.80 to 105.80): VL038957.D (-4486) (-)

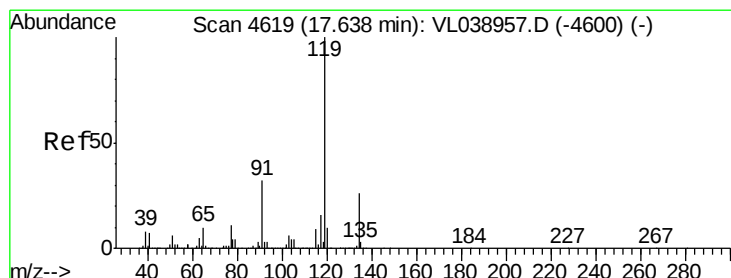
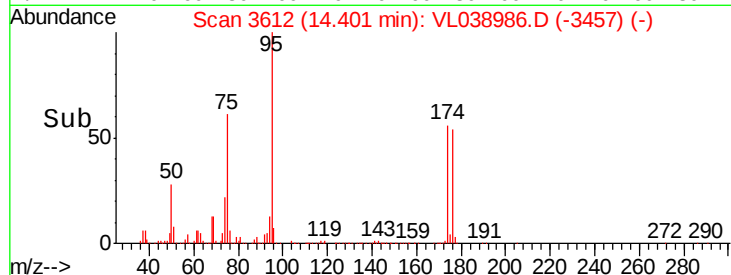
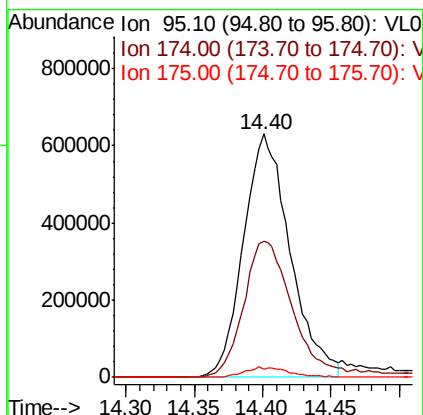
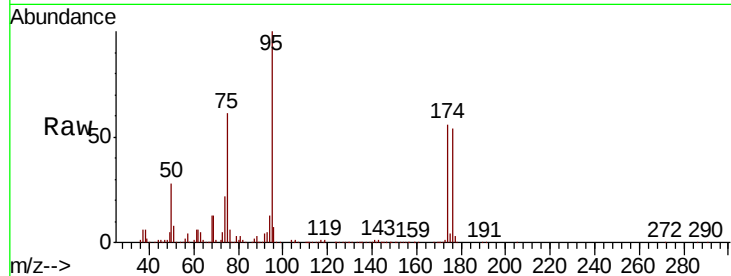
Ion 134.20 (133.90 to 134.90): VL038957.D (-4486) (-)





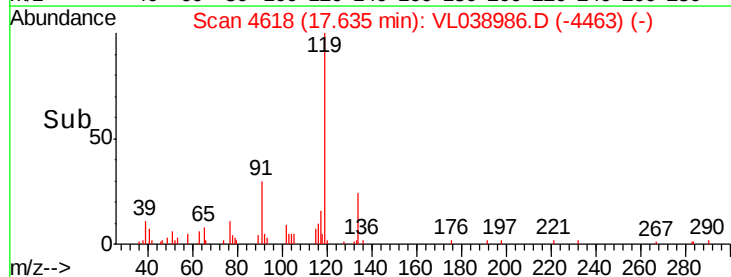
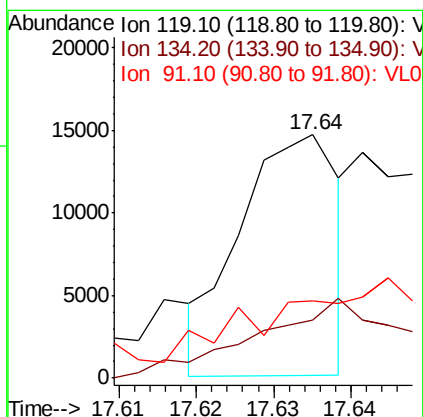
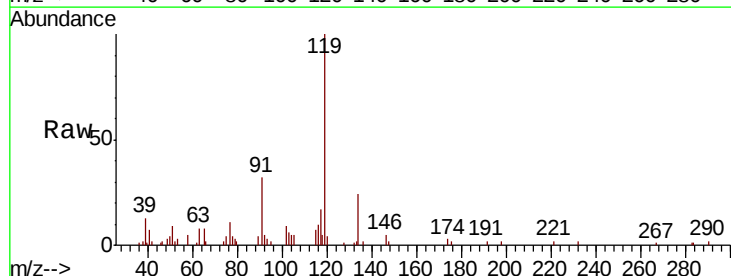
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.520 ppbv
 RT: 14.40 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

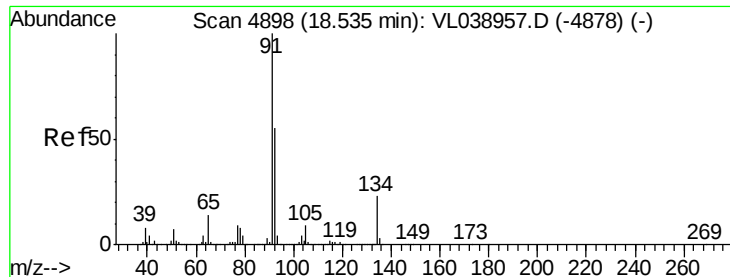
Tot Ion: 95 Resp: 1503272
 Ion Ratio Lower Upper
 95 100
 174 62.9 50.8 76.2
 175 4.5 3.8 5.6



#69
 p-Isopropyltoluene
 Concen: 0.042 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. -0.00 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

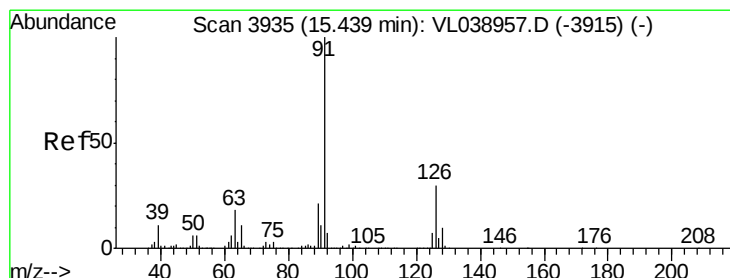
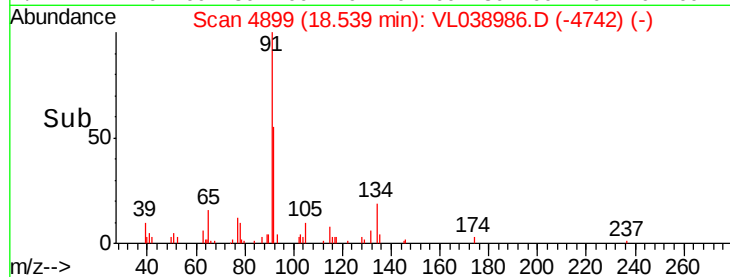
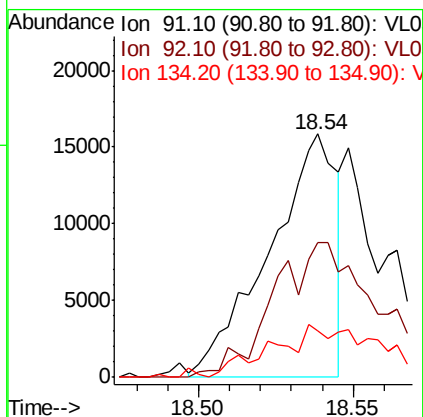
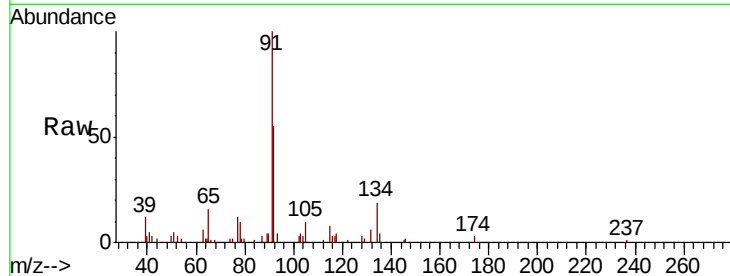
Tgt Ion: 119 Resp: 12965
 Ion Ratio Lower Upper
 119 100
 134 76.3 20.0 30.0#
 91 0.0 24.8 37.2#





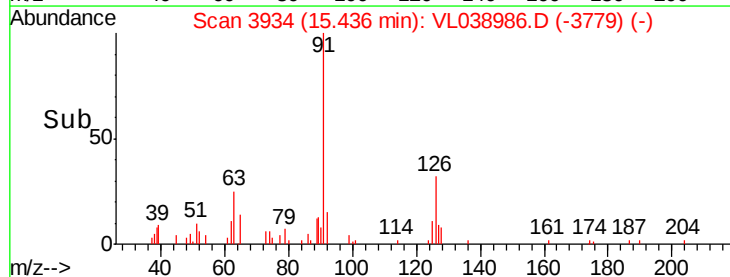
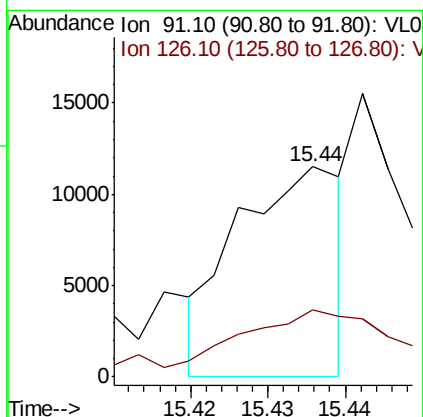
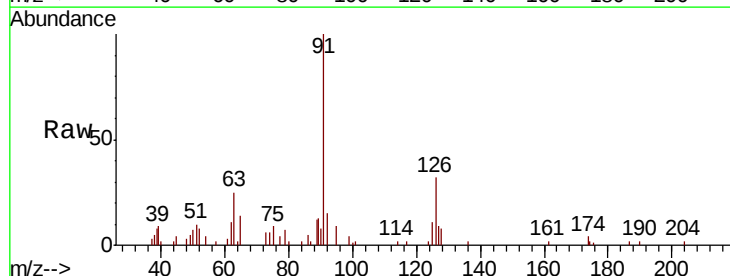
#70
n-Butylbenzene
Concen: 0.073 ppbv
RT: 18.54 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId : VSTDCCC010EC
Acq: 5 May 2022 23:55

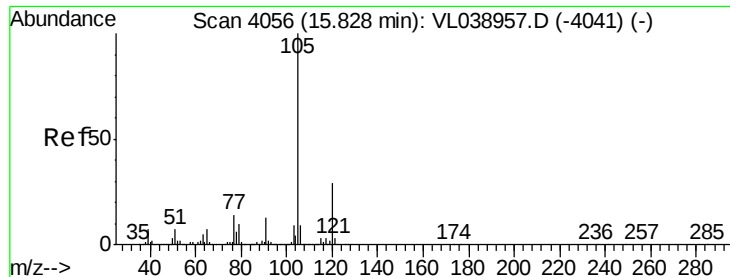
Tot Ion: 91 Resp: 24081
Ion Ratio Lower Upper
91 100
92 90.6 43.1 64.7#
134 36.1 17.0 25.4#



#71
2-Chlorotoluene
Concen: 0.046 ppbv
RT: 15.44 min Scan# 3934
Delta R.T. -0.00 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion: 91 Resp: 10890
Ion Ratio Lower Upper
91 100
126 73.3 11.9 47.5#





#72

4-Ethyltoluene

Concen: 0.060 ppbv

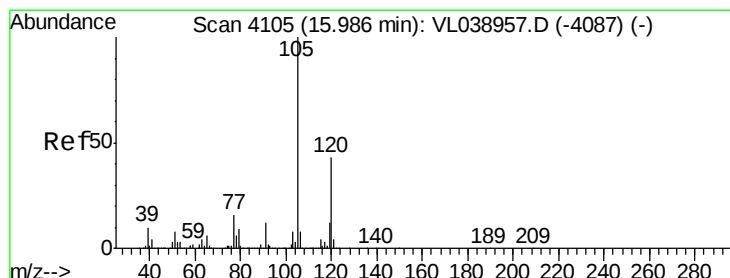
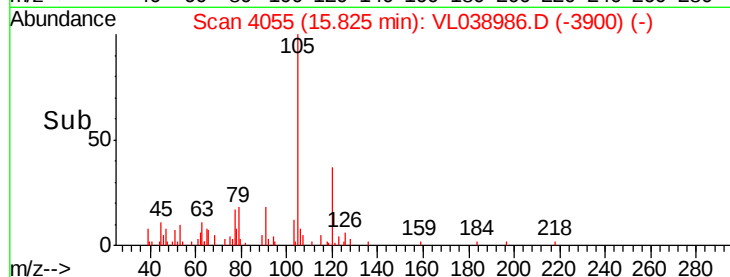
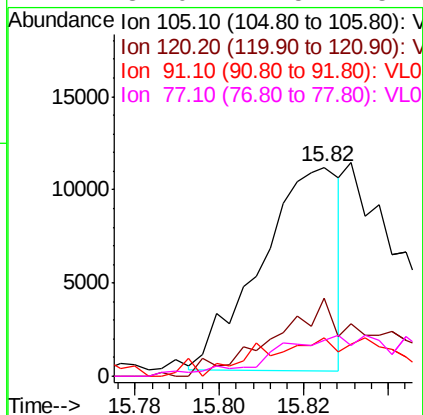
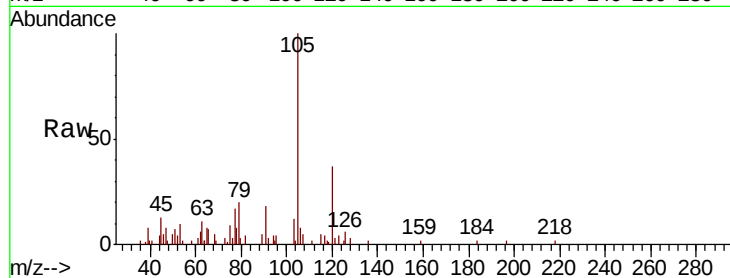
RT: 15.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 23:55

Tot Ion:	105	Resp:	14158
Ion	Ratio	Lower	Upper
105	100		
120	58.8	23.4	35.0#
91	38.8	10.6	16.0#
77	37.0	12.5	18.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.073 ppbv

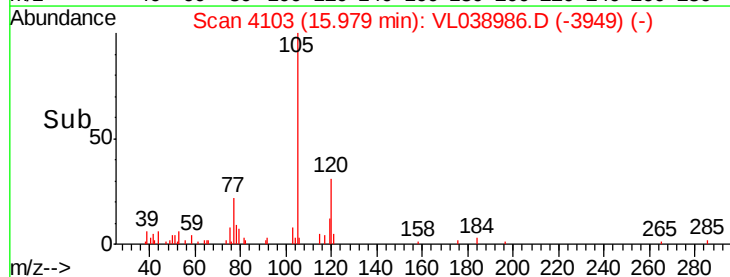
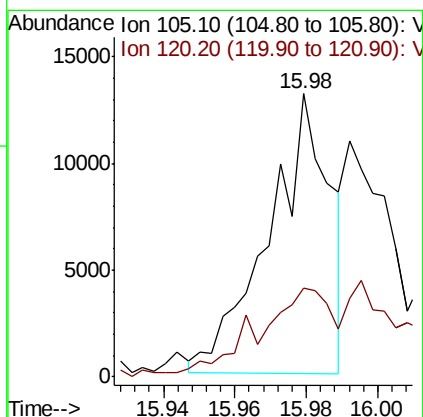
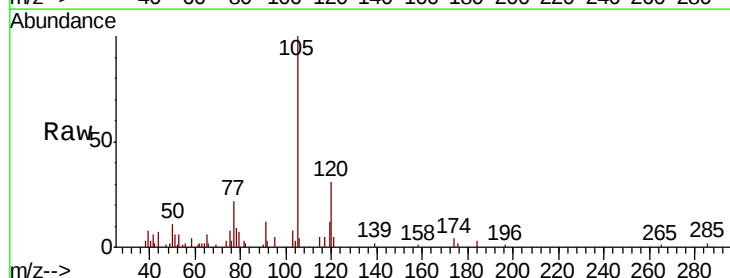
RT: 15.98 min Scan# 4103

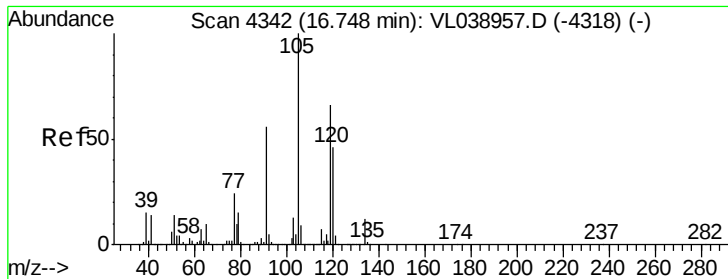
Delta R.T. -0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

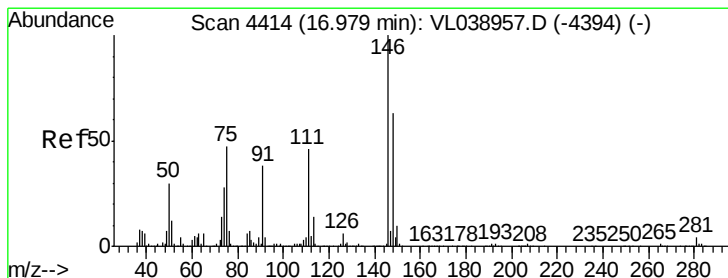
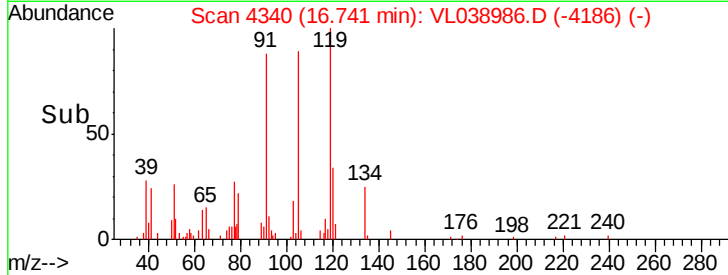
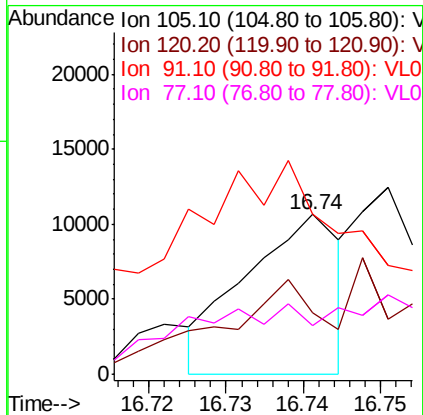
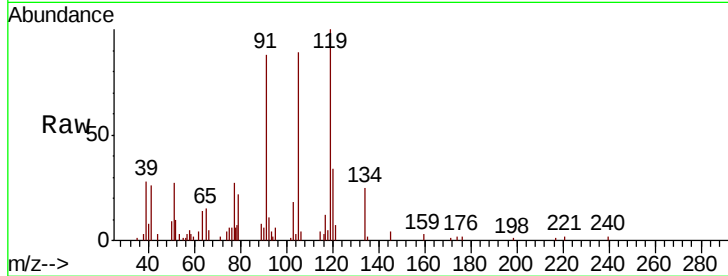
Tgt Ion:	105	Resp:	15594
Ion	Ratio	Lower	Upper
105	100		
120	30.1	34.4	51.6#





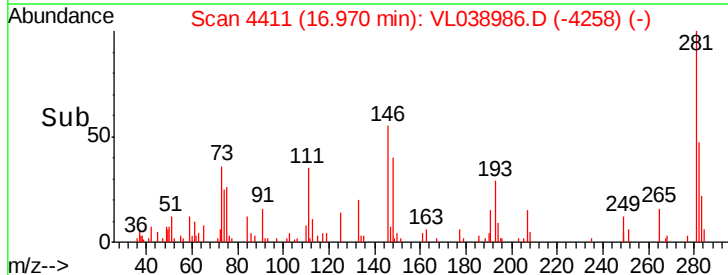
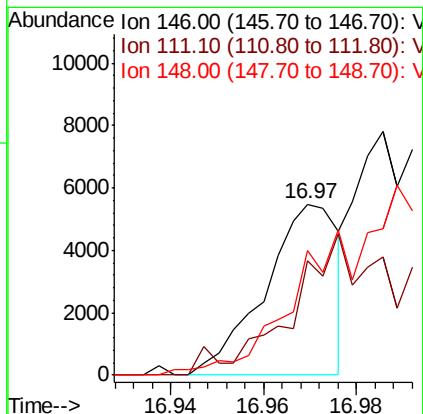
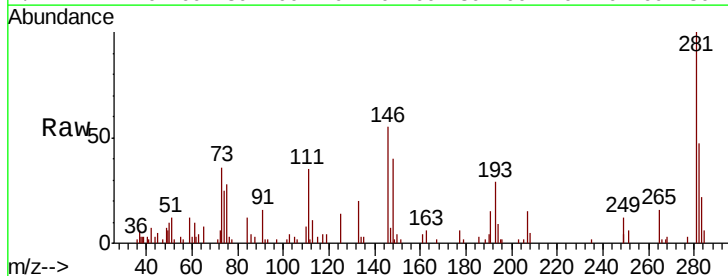
#74
 1,2,4-Trimethylbenzene
 Concen: 0.039 ppbv
 RT: 16.74 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VSTDCCC010EC
 Acq: 5 May 2022 23:55

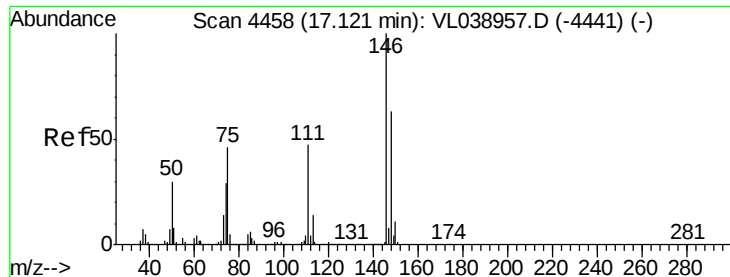
Tot Ion:	105	Resp:	9116
Ion	Ratio	Lower	Upper
105	100		
120	15.2	36.9	55.3#
91	16.2	45.0	67.4#
77	2.8	19.2	28.8#



#75
 1,3-Dichlorobenzene
 Concen: 0.047 ppbv
 RT: 16.97 min Scan# 4411
 Delta R.T. -0.01 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

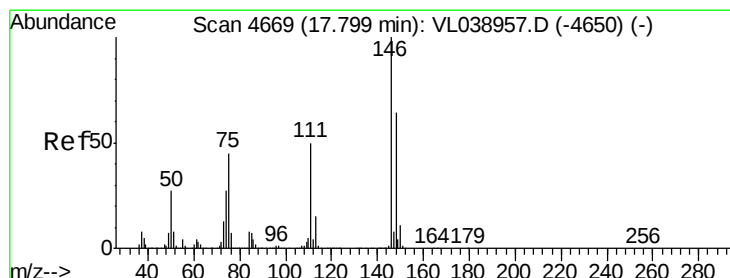
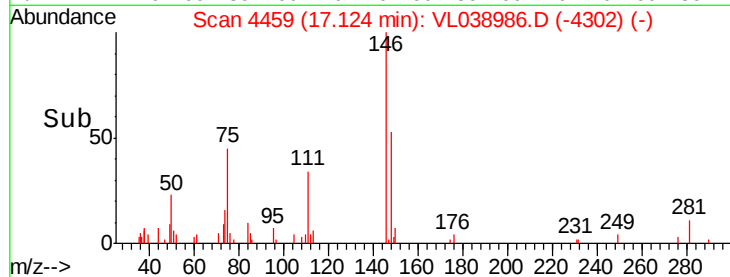
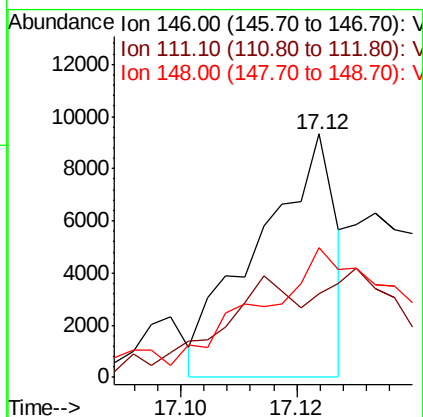
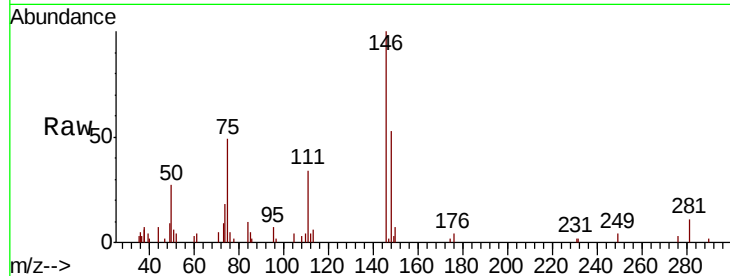
Tgt Ion:	146	Resp:	5985
Ion	Ratio	Lower	Upper
146	100		
111	173.0	24.1	72.2#
148	0.0	32.4	97.2#





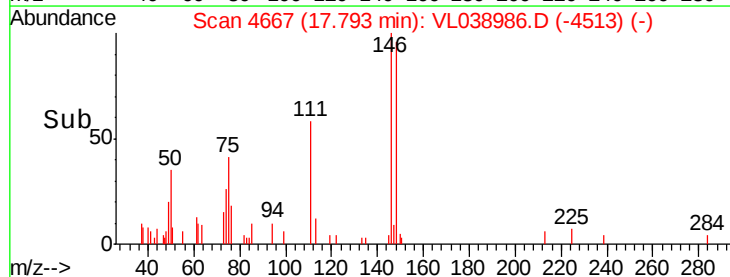
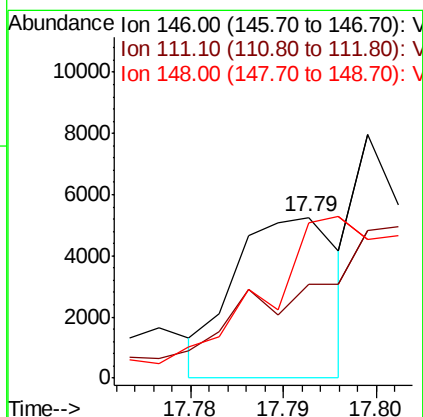
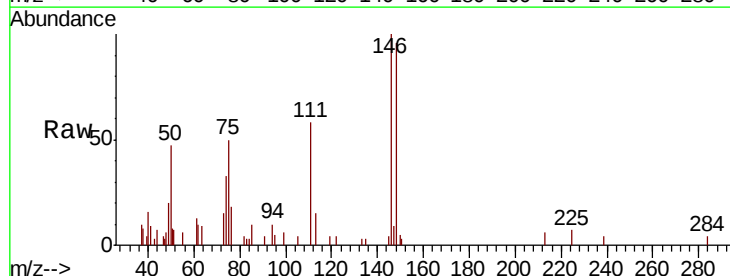
#76
 1,4-Dichlorobenzene
 Concen: 0.069 ppbv
 RT: 17.12 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 5 May 2022 23:55

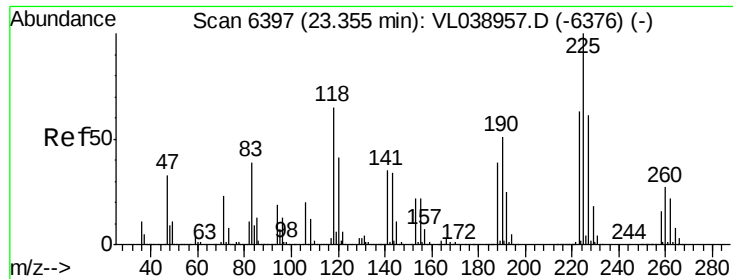
Tot Ion:146 Resp: 8668
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.6 71.0#
 148 134.8 32.2 96.6#



#77
 1,2-Dichlorobenzene
 Concen: 0.032 ppbv
 RT: 17.79 min Scan# 4667
 Delta R.T. -0.01 min
 Lab File: VL038986.D
 Acq: 5 May 2022 23:55

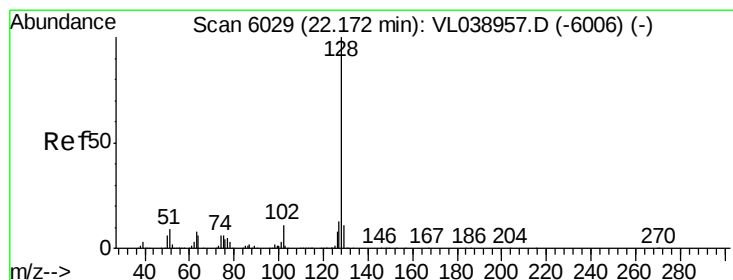
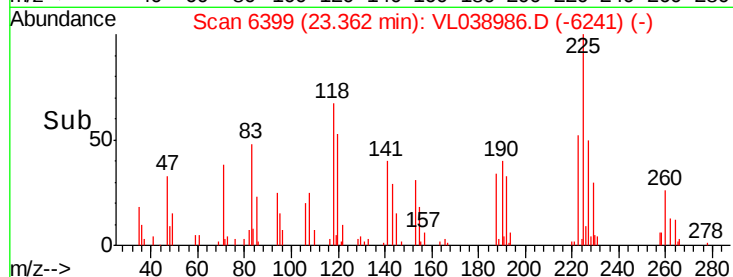
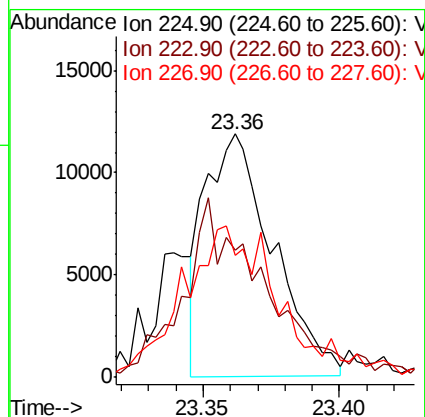
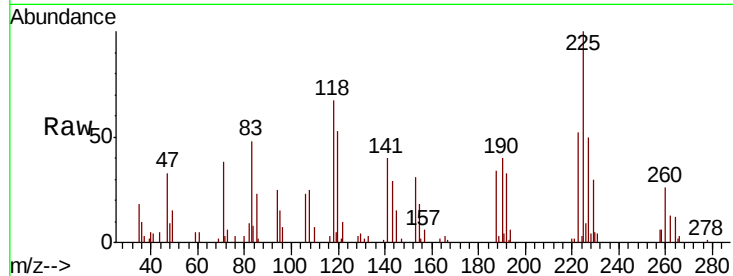
Tgt Ion:146 Resp: 4094
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.3 75.9#
 148 0.0 32.3 96.9#





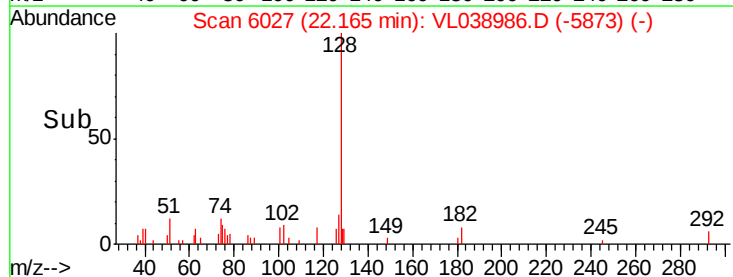
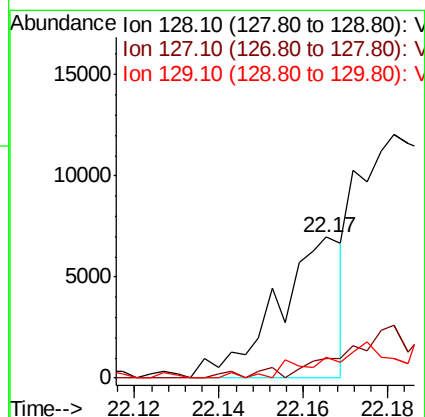
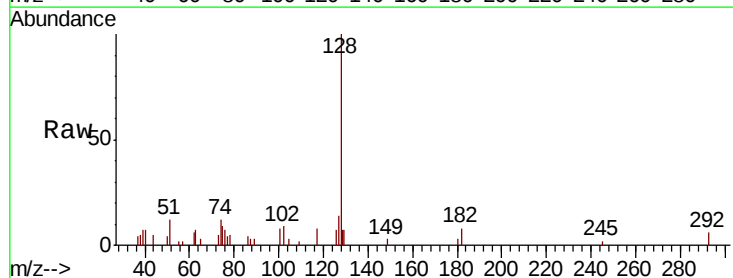
#78
Hexachloro-1,3-Butadiene
Concen: 0.175 ppbv
RT: 23.36
Instrument: MSVOA_1
Delta R.T.:
Client Sample Id:
Lab File: VSTDCCC010EC
Acq: 5 May 2022 23:55

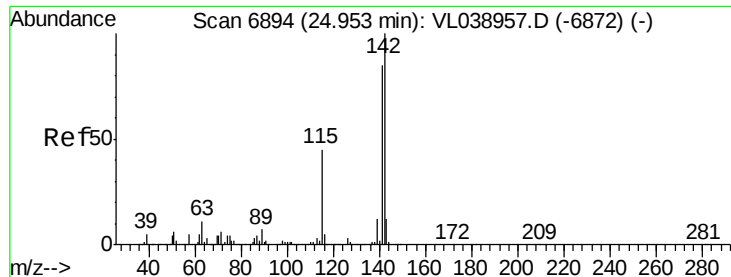
Tot Ion: 225 Resp: 20448
Ion Ratio Lower Upper
225 100
223 94.4 51.4 77.0#
227 92.9 51.4 77.0#



#79
Naphthalene
Concen: 0.039 ppbv
RT: 22.17 min Scan# 6027
Delta R.T. -0.01 min
Lab File: VL038986.D
Acq: 5 May 2022 23:55

Tgt Ion: 128 Resp: 7468
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 13.7 8.9 13.3#





#80

Naphthalene, 2-methyl-

Concen: 0.043 ppbv

RT: 24.98

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDCCC010EC

Acq: 5 May 2022 23:55

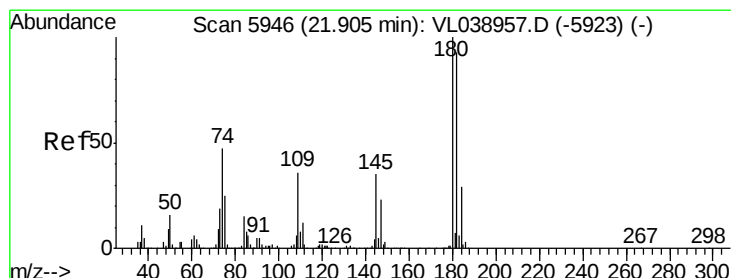
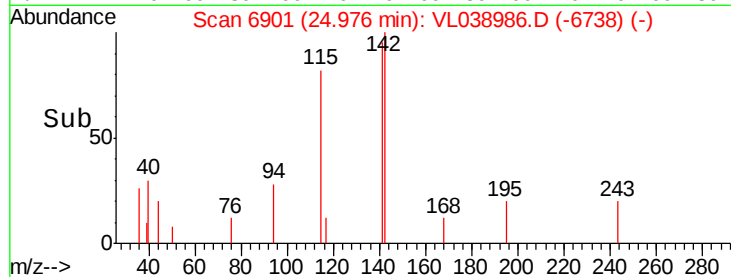
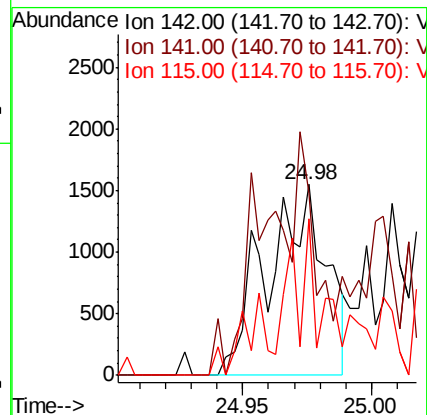
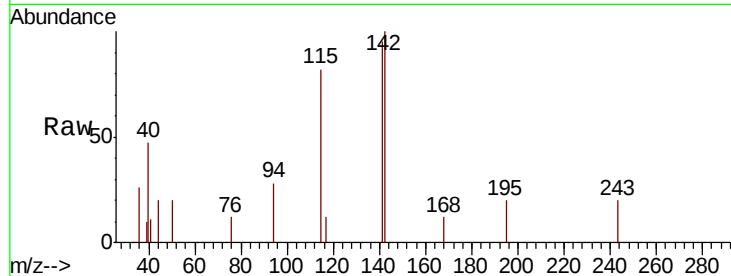
Tot Ion:142 Resp: 2454

Ion Ratio Lower Upper

142 100

141 172.4 70.8 106.2#

115 56.4 35.1 52.7#



#81

1,2,4-Trichlorobenzene

Concen: 0.071 ppbv

RT: 21.91 min Scan# 5948

Delta R.T. 0.01 min

Lab File: VL038986.D

Acq: 5 May 2022 23:55

Tgt Ion:180 Resp: 7870

Ion Ratio Lower Upper

180 100

182 0.0 78.4 117.6#

184 92.0 24.4 36.6#

