

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012722\
 Data File : VL038313.D
 Acq On : 28 Jan 2022 8:33
 Operator : SY/AP
 Sample : QC012722 CAN 10667
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC012722 CAN 10667

Quant Time: Jan 29 06:03:21 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	735334	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	1985065	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	1651706	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1242229	9.91	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	24794	0.158	ppbv 90
3) Chlorodifluoromethane	2.99	51	26377	0.180	ppbv 99
4) Chloromethane	3.14	50	8641	0.172	ppbv 89
5) Vinyl Chloride	3.26	62	7578	0.151	ppbv # 88
6) Bromomethane	3.47	94	1526	0.056	ppbv # 31
7) Chloroethane	3.56	64	1781	0.105	ppbv # 85
8) Dichlorotetrafluoroethane	3.19	85	19761	0.163	ppbv 97
9) Propene	3.01	41	4307	0.090	ppbv # 15
10) Heptane	8.10	43	4578	0.037	ppbv # 28
11) Trichlorofluoromethane	3.95	101	20333	0.167	ppbv 91
12) 1,1,2-Trichlorotrifluoroet	4.48	101	9997	0.108	ppbv # 51
13) Ethanol	3.61	45	858	0.168	ppbv # 37
14) Bromoethene	3.74	108	4961	0.138	ppbv 85
15) Acetone	3.86	43	18092	0.279	ppbv # 83
16) 1,3-Butadiene	3.33	39	7285	0.157	ppbv 96
18) 1,1-Dichloroethene	4.29	96	4981	0.124	ppbv # 57
19) Isopropyl Alcohol	3.99	45	2801	0.069	ppbv # 64
20) Methylene Chloride	4.34	84	10662	0.283	ppbv # 89
21) Allyl Chloride	4.41	41	6349	0.111	ppbv # 49
22) trans-1,2-Dichloroethene	4.88	96	4745	0.115	ppbv 84
23) Vinyl Acetate	5.07	43	3486	0.037	ppbv # 95
24) 1,1-Dichloroethane	5.01	63	8010	0.095	ppbv # 96
25) Ethyl Acetate	5.68	43	23595	0.130	ppbv # 95
26) Hexane	5.66	57	3631	0.043	ppbv # 1
27) Carbon Disulfide	4.54	76	6337	0.064	ppbv # 79
28) Methyl tert-Butyl Ether	5.04	73	4383	0.050	ppbv # 53
29) Chloroform	5.74	83	21948	0.159	ppbv # 80
30) Cyclohexane	7.12	84	7084	0.096	ppbv # 9
31) cis-1,2-Dichloroethene	5.54	61	5149	0.070	ppbv # 84
32) 1,1,1-Trichloroethane	6.49	97	7454	0.054	ppbv # 22
34) 2-Butanone	5.25	43	3930	0.061	ppbv # 1
35) Carbon Tetrachloride	7.01	117	12420	0.089	ppbv 91
36) Benzene	6.87	78	26038	0.148	ppbv # 90
37) 1,2-Dichloroethane	6.29	62	6251	0.062	ppbv # 62
38) Trichloroethene	7.82	130	3719	0.057	ppbv # 27
39) 1,2-Dichloropropane	7.60	63	10740	0.151	ppbv # 72
41) Tetrahydrofuran	6.08	42	2620	0.060	ppbv # 49
42) Bromodichloromethane	7.77	83	9787	0.066	ppbv 89
43) Methyl Methacrylate	8.01	69	5052	0.081	ppbv # 46
44) 2,2,4-Trimethylpentane	7.85	57	39791	0.129	ppbv # 91
46) cis-1,3-Dichloropropene	8.69	75	5124	0.076	ppbv # 67

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

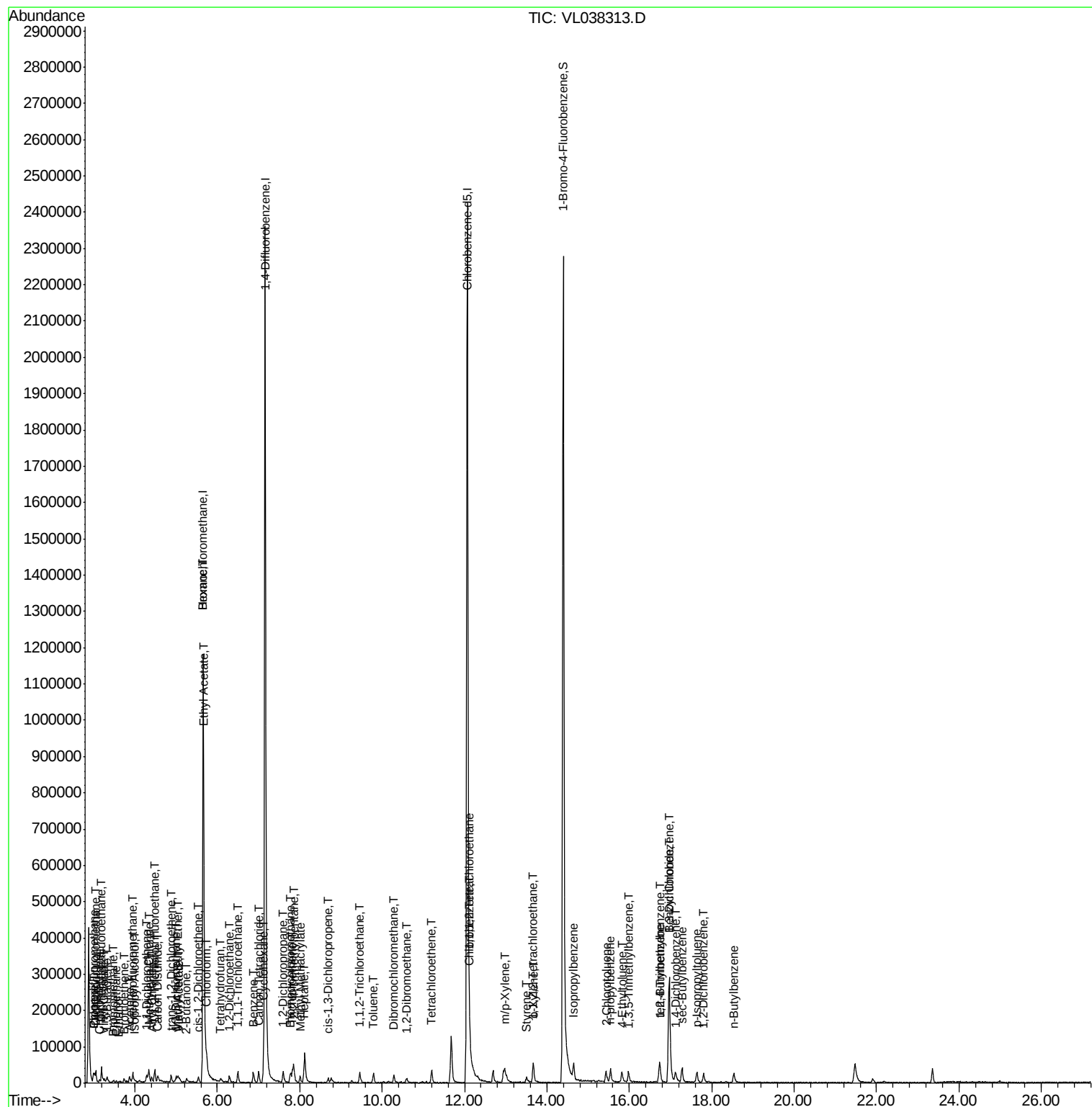
47) 1,1,2-Trichloroethane	9.46	97	8311	0.119	ppbv	# 70
48) Dibromochloromethane	10.28	129	4041	0.034	ppbv	# 10
52) Tetrachloroethene	11.20	164	4179	0.069	ppbv	# 79
53) Toluene	9.79	91	12049	0.062	ppbv	# 21
54) 1,2-Dibromoethane	10.59	107	10574	0.106	ppbv	# 87
56) 1,1,1,2-Tetrachloroethane	12.12	131	2715	0.038	ppbv	# 8
57) Chlorobenzene	12.13	112	9411	0.071	ppbv	# 68
59) m/p-Xylene	12.98	91	21752	0.105	ppbv	# 19
60) o-Xylene	13.67	91	20934	0.109	ppbv	# 95
61) Styrene	13.50	104	4118	0.046	ppbv	# 1
62) Isopropylbenzene	14.64	105	13802	0.054	ppbv	# 49
63) 1,1,2,2-Tetrachloroethane	13.65	83	9570	0.067	ppbv	# 16
64) n-propylbenzene	15.54	120	2474	0.040	ppbv	# 1
65) tert-Butylbenzene	16.73	119	10585	0.050	ppbv	# 17
66) Benzyl Chloride	16.96	91	329	0.034	ppbv	# 1
67) sec-Butylbenzene	17.28	105	33319	0.113	ppbv	# 100
69) p-Isopropyltoluene	17.63	119	7910	0.035	ppbv	# 48
70) n-Butylbenzene	18.54	91	16288	0.074	ppbv	# 74
71) 2-Chlorotoluene	15.43	91	10501	0.055	ppbv	# 30
72) 4-Ethyltoluene	15.82	105	10276	0.051	ppbv	# 46
73) 1,3,5-Trimethylbenzene	15.96	105	5515	0.030	ppbv	# 91
74) 1,2,4-Trimethylbenzene	16.74	105	9729	0.051	ppbv	# 80
75) 1,3-Dichlorobenzene	16.97	146	5779	0.056	ppbv	# 1
76) 1,4-Dichlorobenzene	17.11	146	3332	0.034	ppbv	# 1
77) 1,2-Dichlorobenzene	17.80	146	3942	0.041	ppbv	# 22

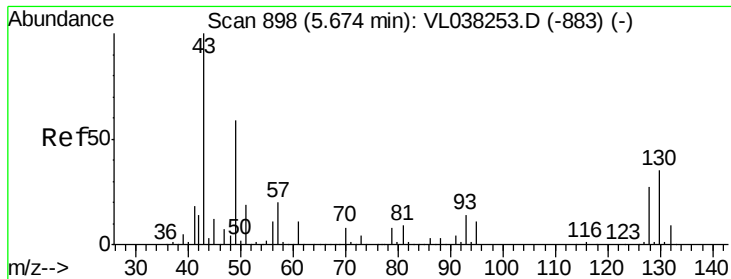
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: QC012722 CAN 10667

Acq: 28 Jan 2022 8:33

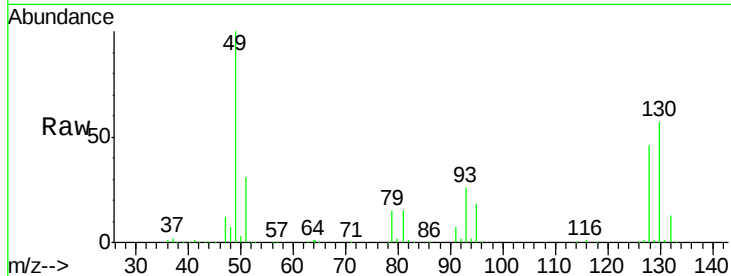
Tgt Ion: 49 Resp: 735334

Ion Ratio Lower Upper

49 100

128 46.3 24.5 73.5

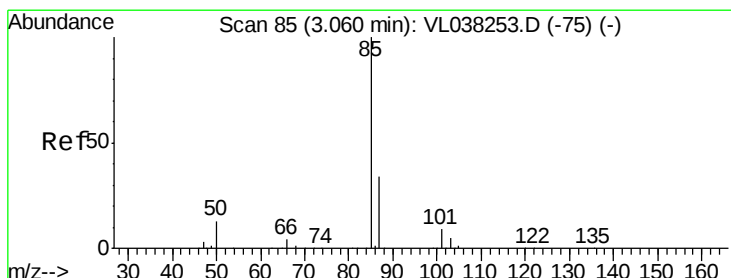
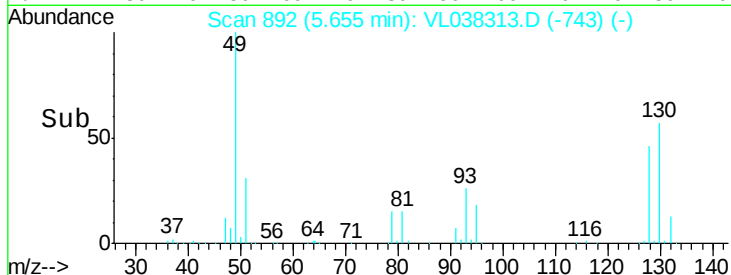
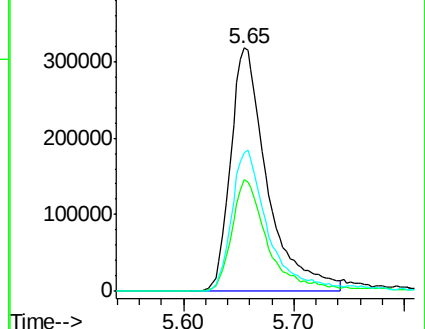
130 60.5 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.158 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL038313.D

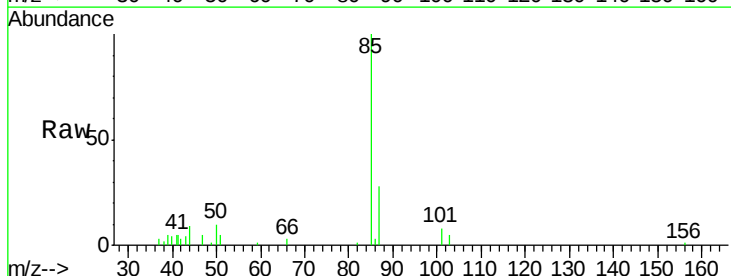
Acq: 28 Jan 2022 8:33

Tgt Ion: 85 Resp: 24794

Ion Ratio Lower Upper

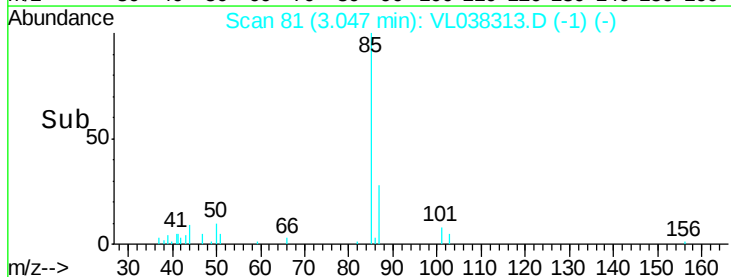
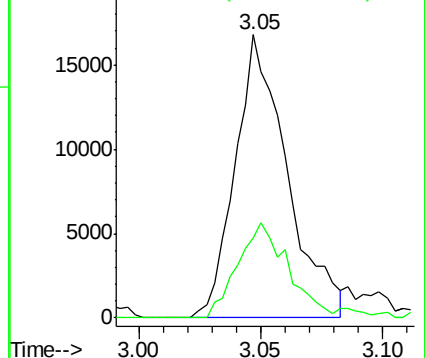
85 100

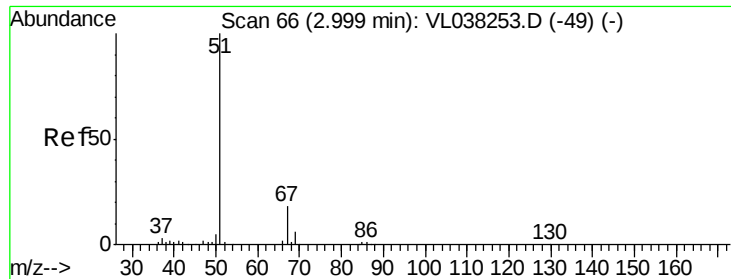
87 28.3 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.180 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: QC012722 CAN 10667

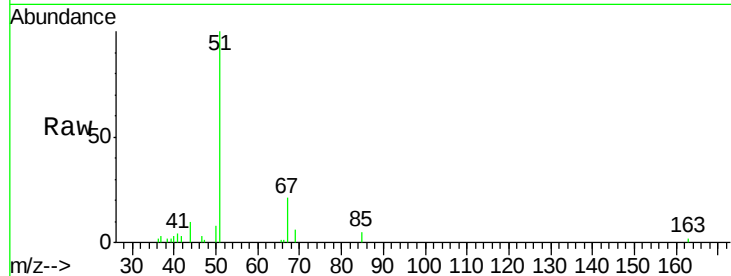
Acq: 28 Jan 2022 8:33

Tgt Ion: 51 Resp: 26377

Ion Ratio Lower Upper

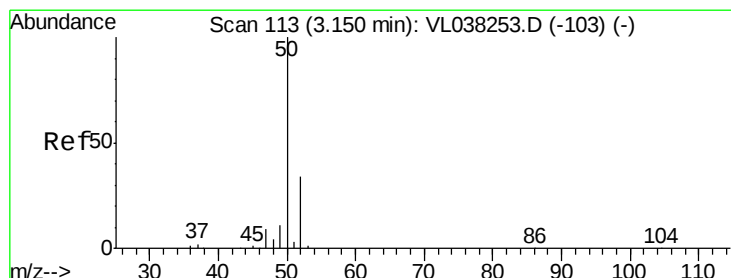
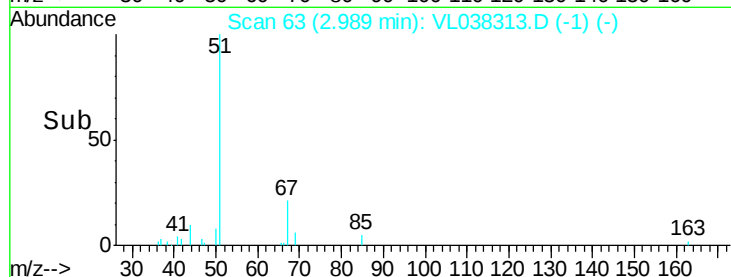
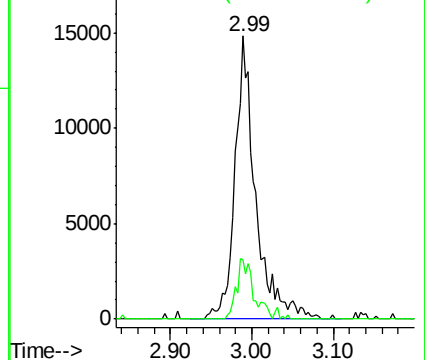
51 100

67 18.3 14.4 21.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.172 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL038313.D

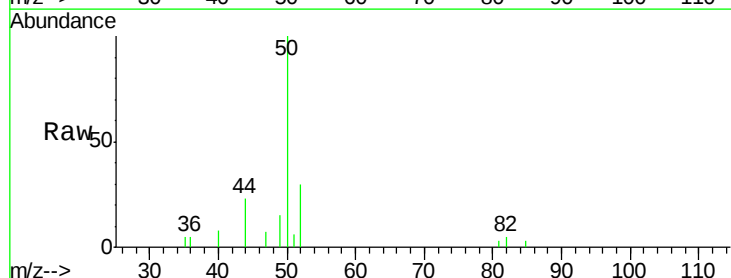
Acq: 28 Jan 2022 8:33

Tgt Ion: 50 Resp: 8641

Ion Ratio Lower Upper

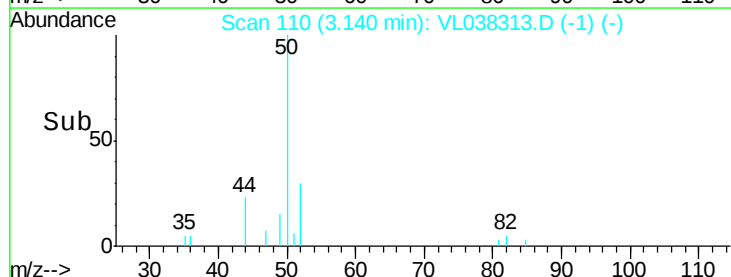
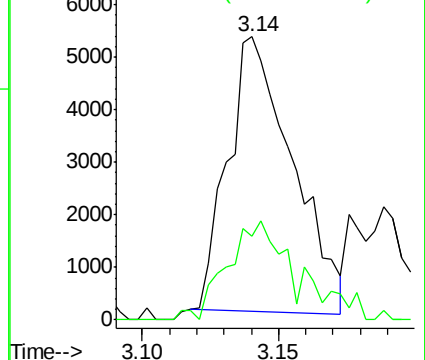
50 100

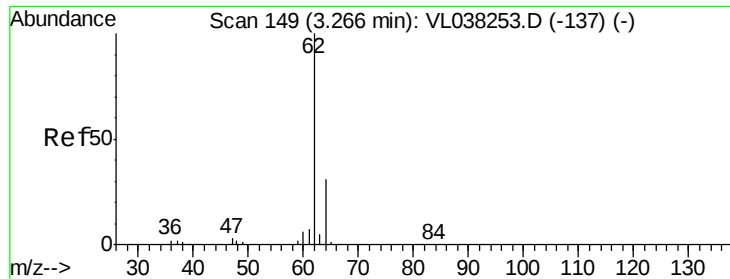
52 27.4 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.151 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

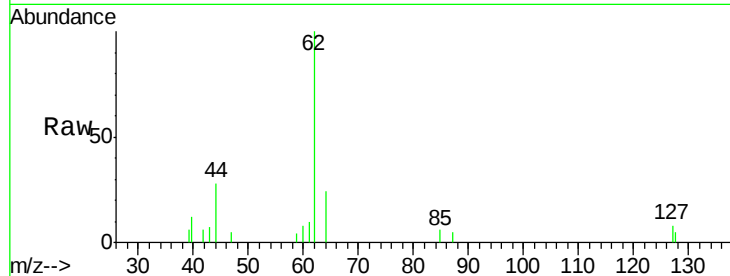
Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

Tgt Ion: 62 Resp: 7578

Ion Ratio Lower Upper

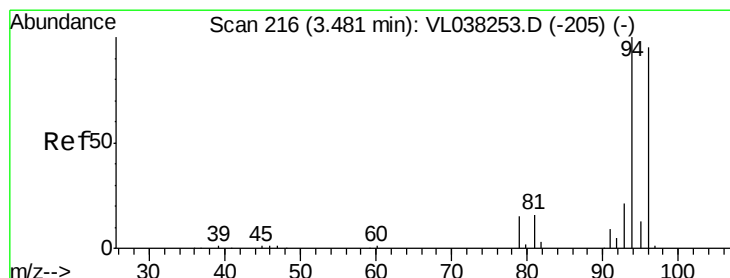
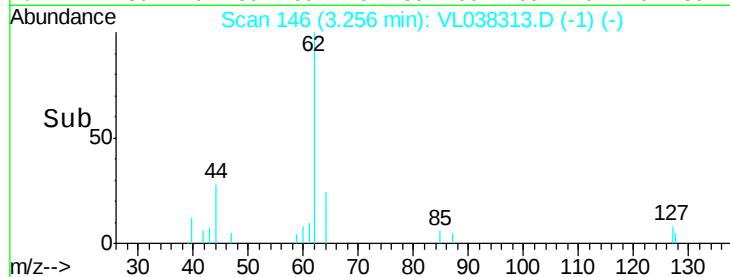
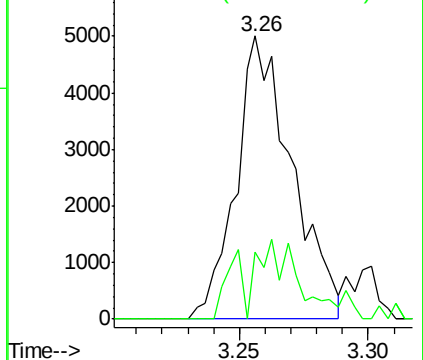
62 100

64 23.7 24.4 36.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.056 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL038313.D

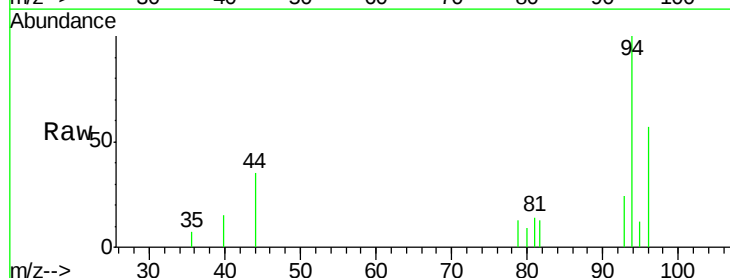
Acq: 28 Jan 2022 8:33

Tgt Ion: 94 Resp: 1526

Ion Ratio Lower Upper

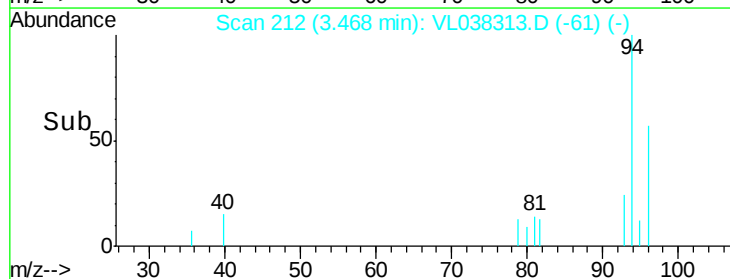
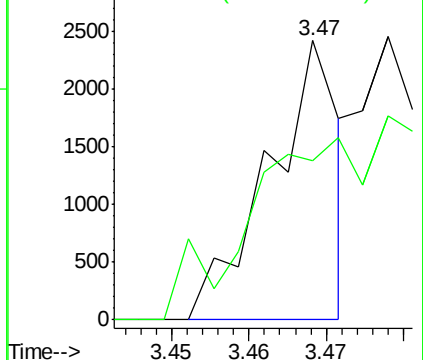
94 100

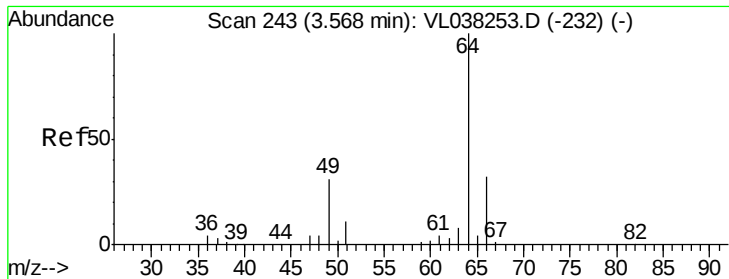
96 27.9 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.105 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

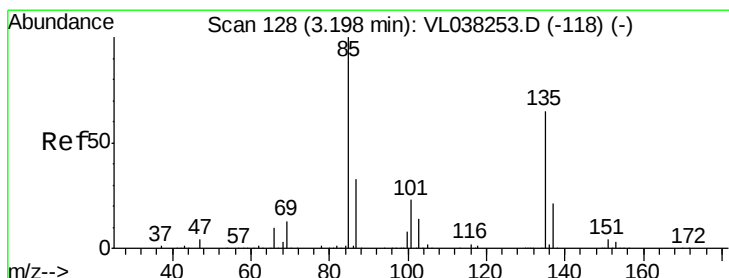
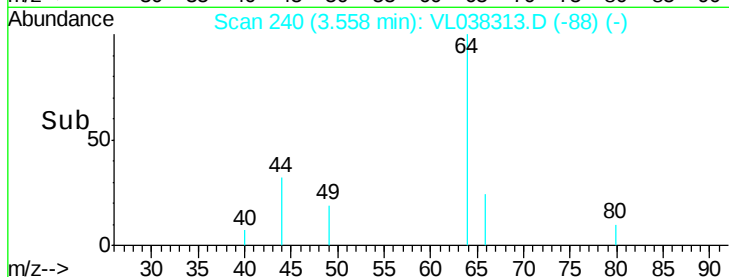
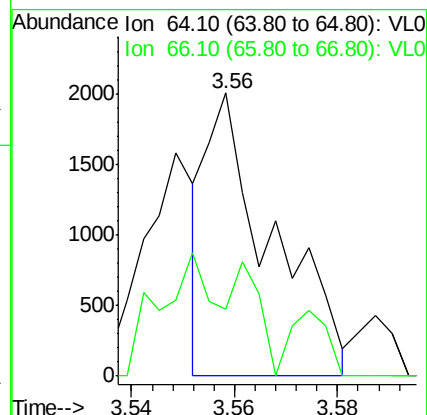
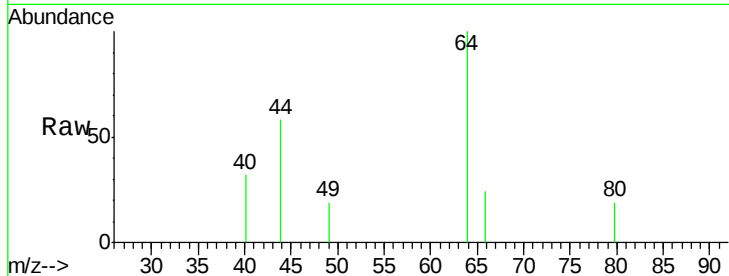
Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

Tgt Ion: 64 Resp: 1781

Ion Ratio Lower Upper

64 100

66 23.9 25.8 38.6#



#8

Dichlorotetrafluoroethane

Concen: 0.163 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.01 min

Lab File: VL038313.D

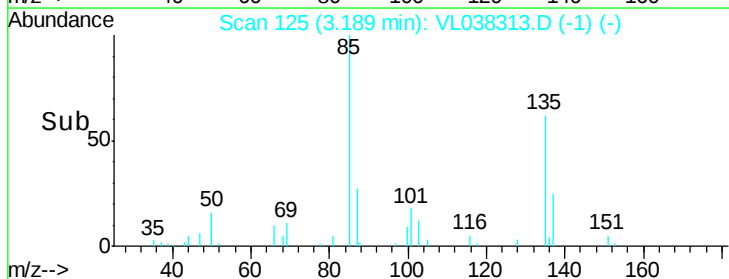
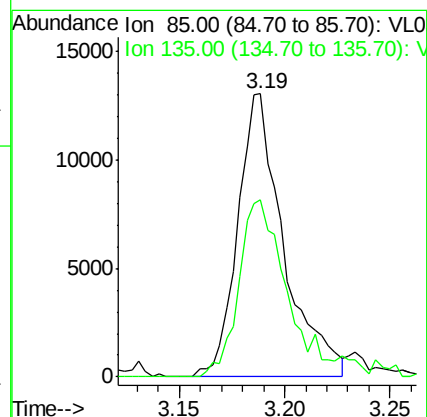
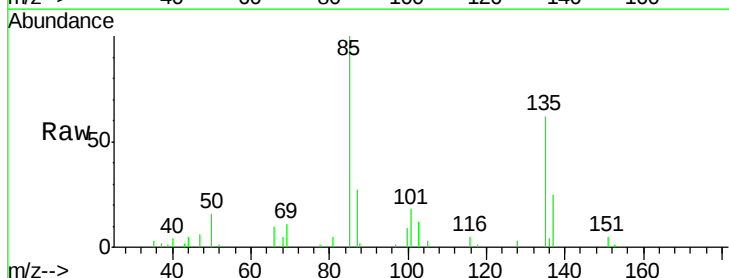
Acq: 28 Jan 2022 8:33

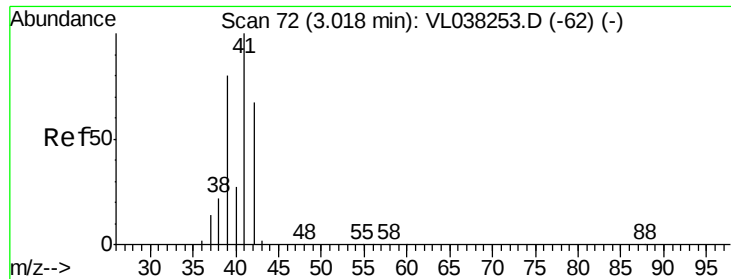
Tgt Ion: 85 Resp: 19761

Ion Ratio Lower Upper

85 100

135 69.6 53.7 80.5





#9

Propene

Concen: 0.090 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

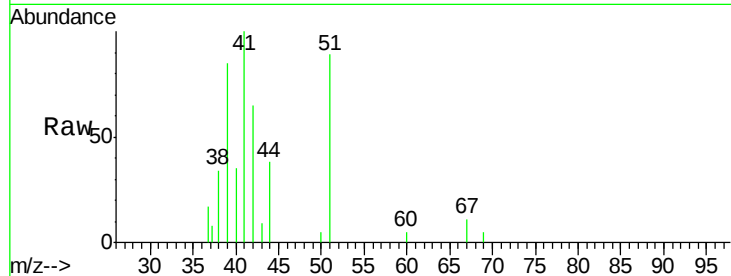
Acq: 28 Jan 2022 8:33

Tgt Ion: 41 Resp: 4307

Ion Ratio Lower Upper

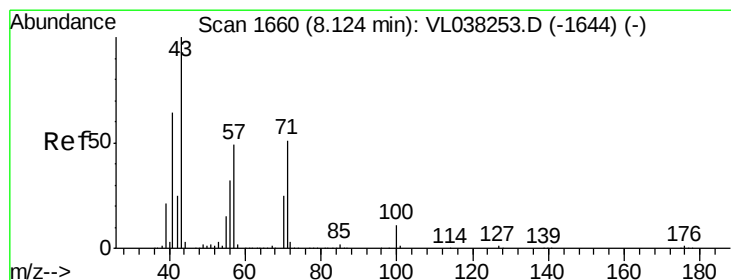
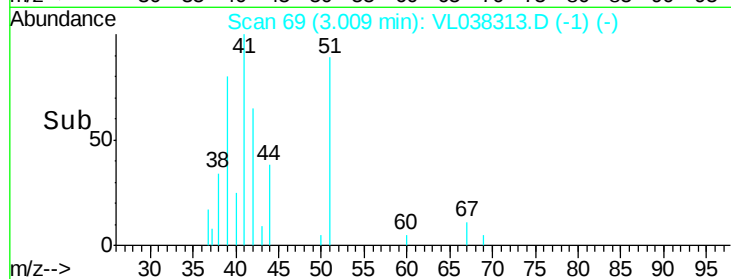
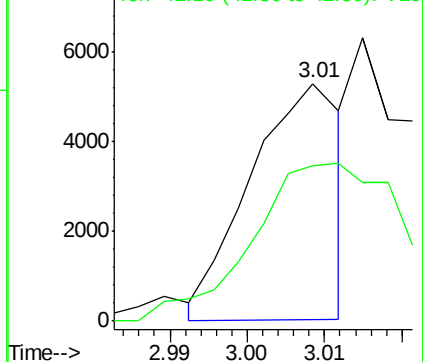
41 100

42 0.0 54.9 82.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.037 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.03 min

Lab File: VL038313.D

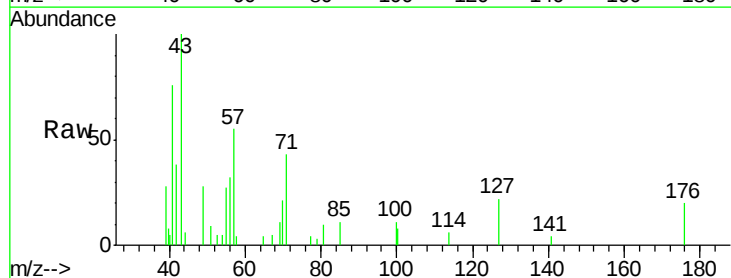
Acq: 28 Jan 2022 8:33

Tgt Ion: 43 Resp: 4578

Ion Ratio Lower Upper

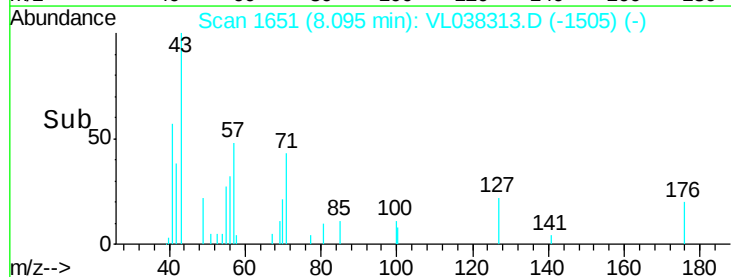
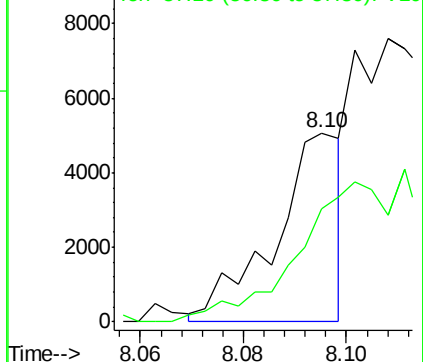
43 100

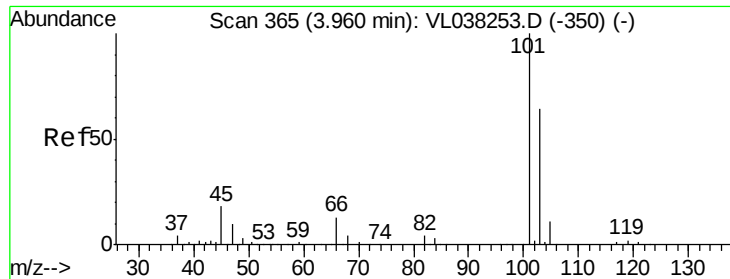
57 0.0 39.5 59.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

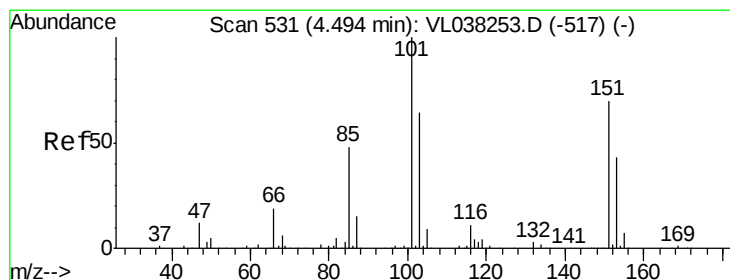
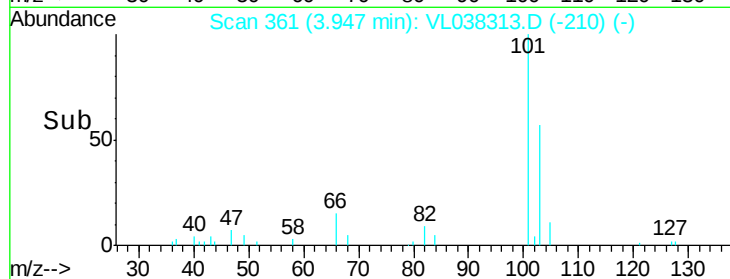
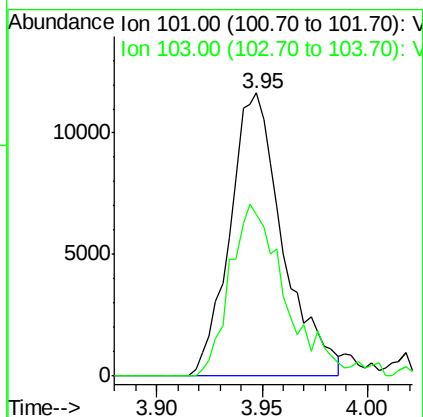
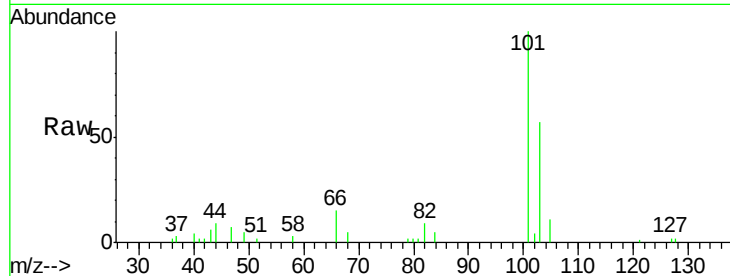
Ion 57.10 (56.80 to 57.80): VL0





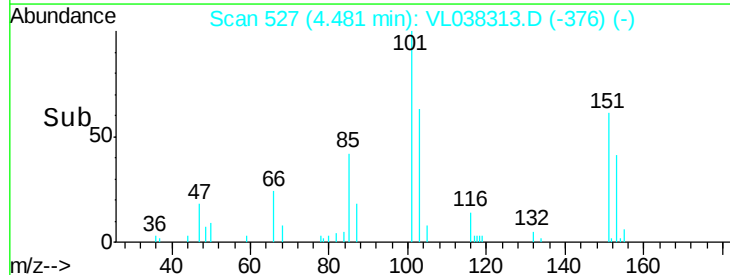
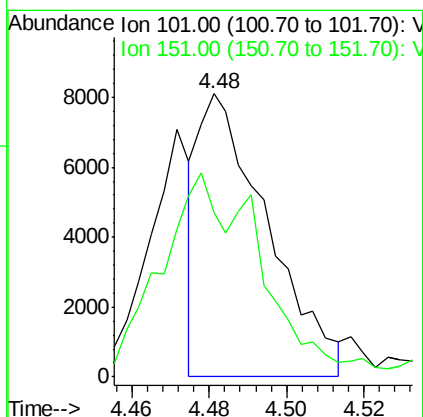
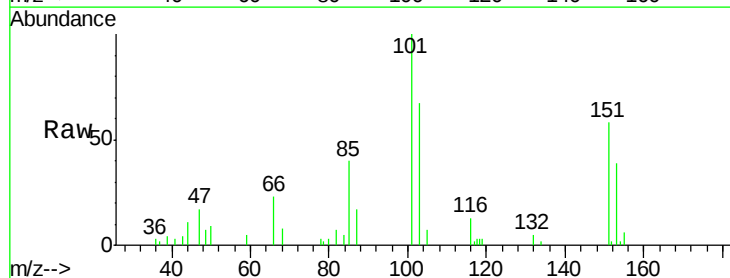
#11
 Trichlorofluoromethane
 Concen: 0.167 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 QC012722 CAN 10667
 Acq: 28 Jan 2022 8:33

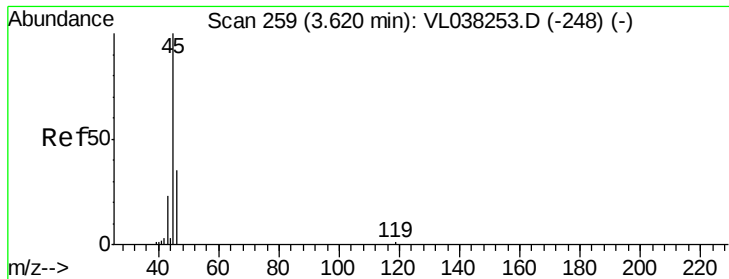
Tgt Ion:101 Resp: 20333
 Ion Ratio Lower Upper
 101 100
 103 57.2 51.2 76.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.108 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.01 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

Tgt Ion:101 Resp: 9997
 Ion Ratio Lower Upper
 101 100
 151 109.4 55.3 82.9#





#13

Ethanol

Concen: 0.168 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

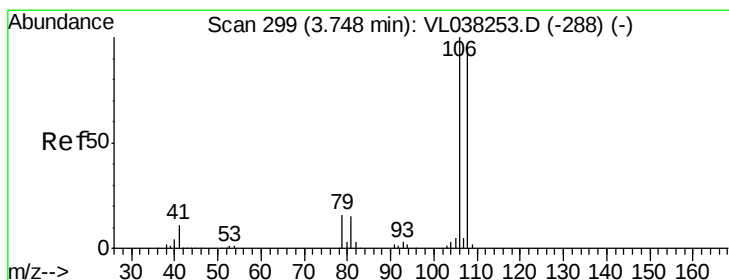
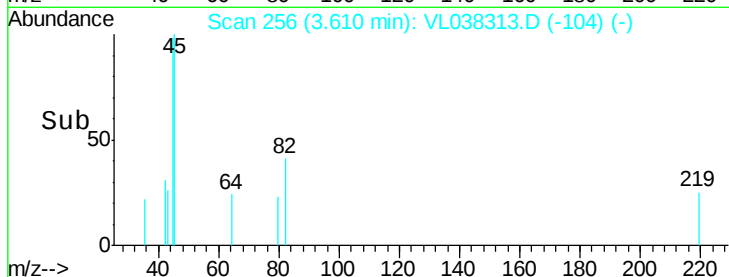
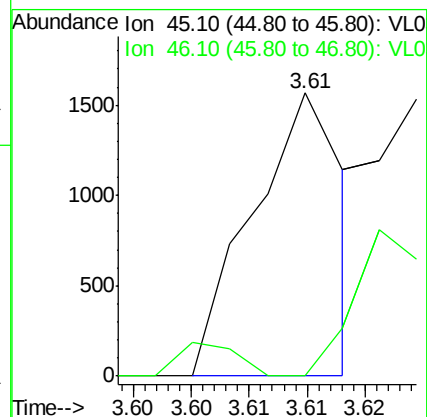
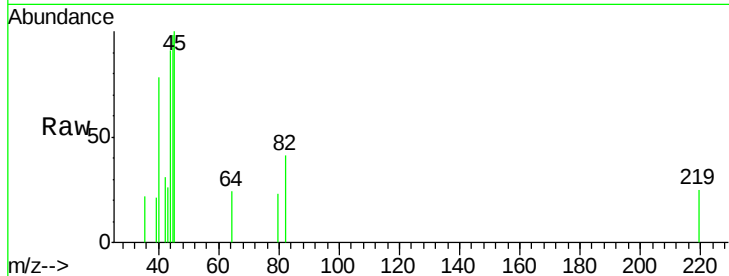
Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

Tgt Ion: 45 Resp: 858

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.6#



#14

Bromoethene

Concen: 0.138 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.01 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

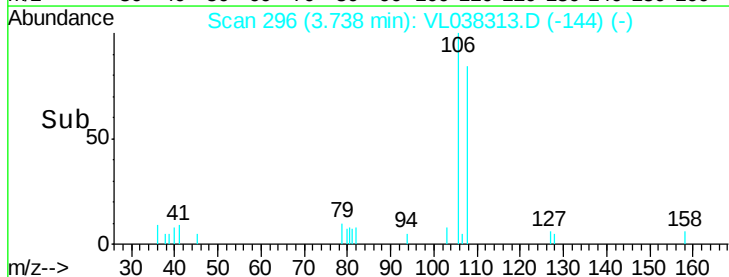
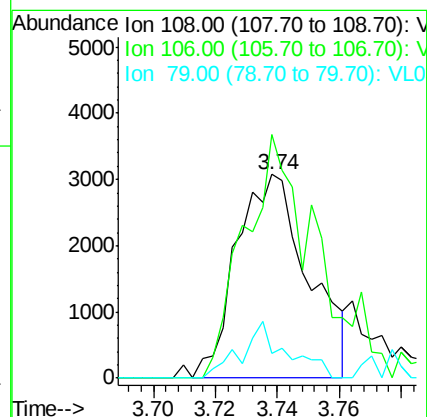
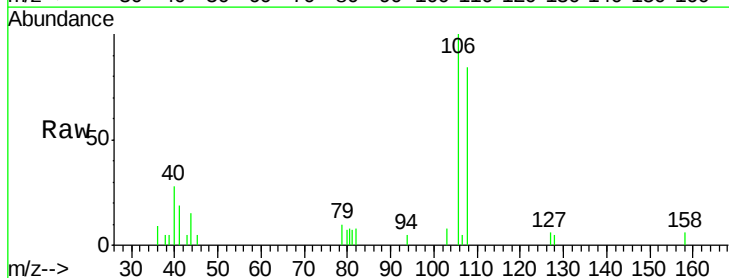
Tgt Ion: 108 Resp: 4961

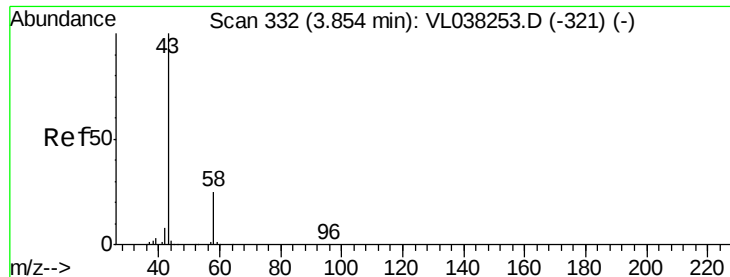
Ion Ratio Lower Upper

108 100

106 125.9 86.4 129.6

79 17.5 14.1 21.1





#15

Acetone

Concen: 0.279 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

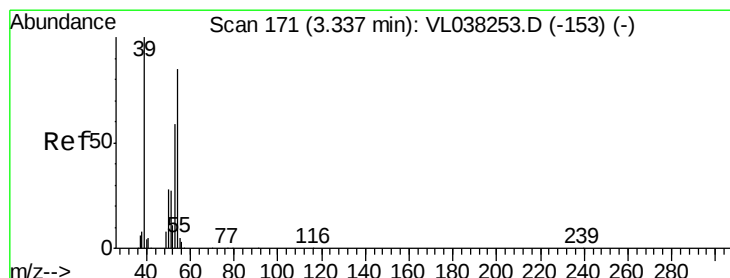
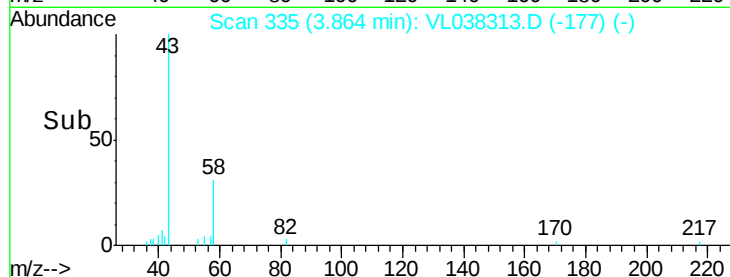
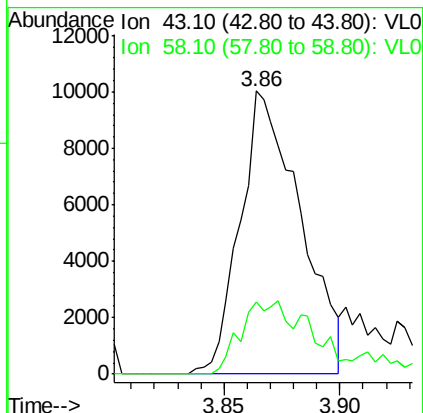
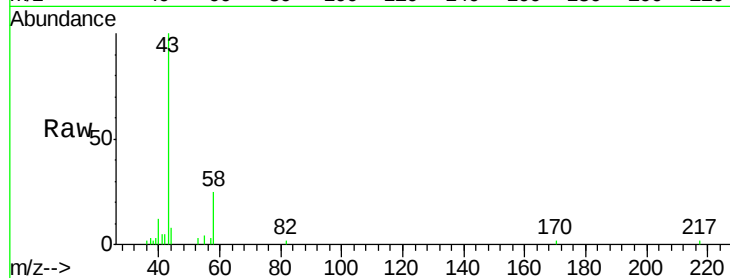
Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

Tgt Ion: 43 Resp: 18092

Ion Ratio Lower Upper

43 100

58 35.8 21.5 32.3#



#16

1,3-Butadiene

Concen: 0.157 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.01 min

Lab File: VL038313.D

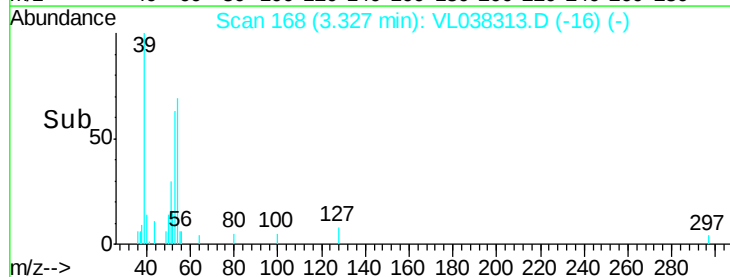
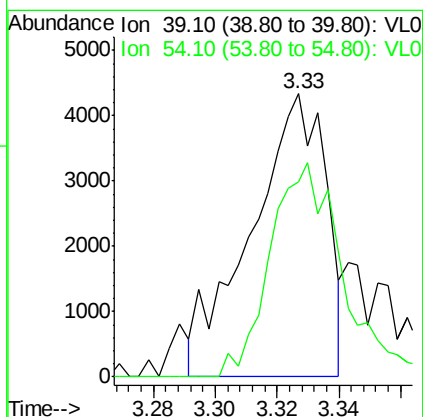
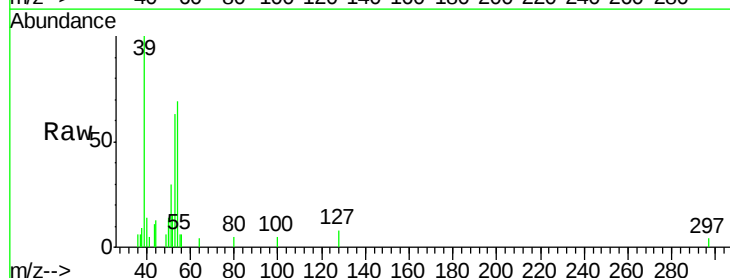
Acq: 28 Jan 2022 8:33

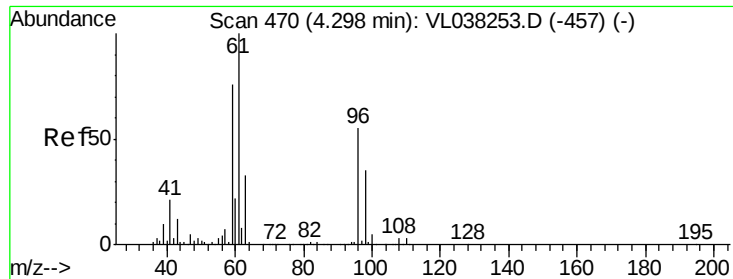
Tgt Ion: 39 Resp: 7285

Ion Ratio Lower Upper

39 100

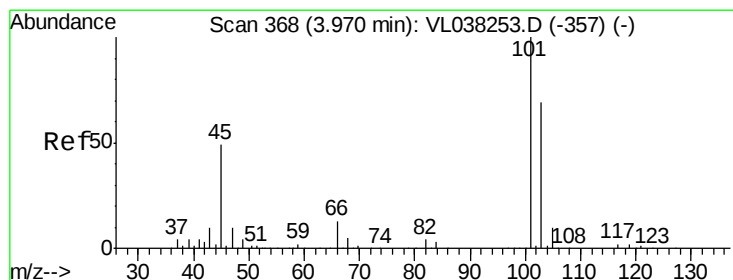
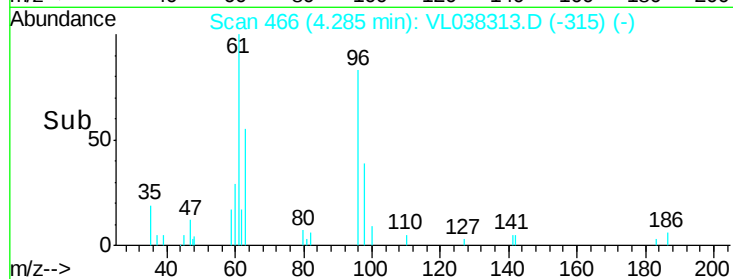
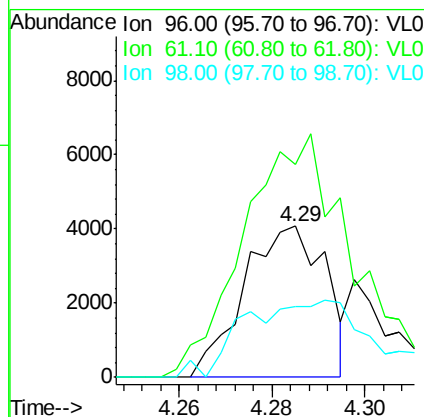
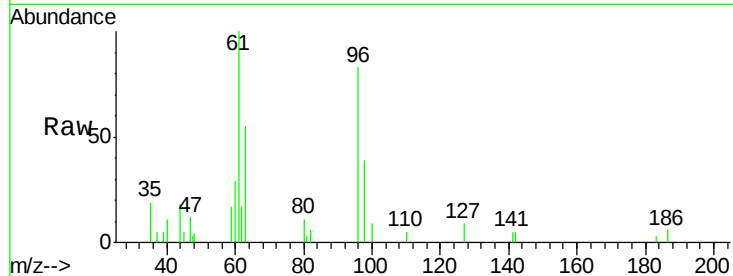
54 74.5 62.6 94.0





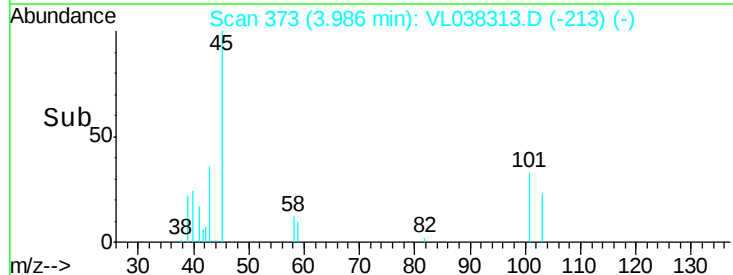
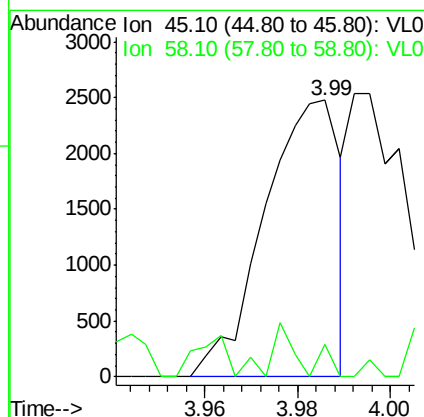
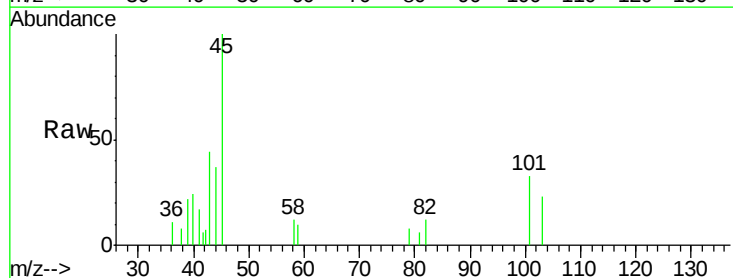
#18
 1,1-Dichloroethene
 Concen: 0.124 ppbv
 RT: 4.29
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jan 2022 8:33
 QC012722 CAN 10667

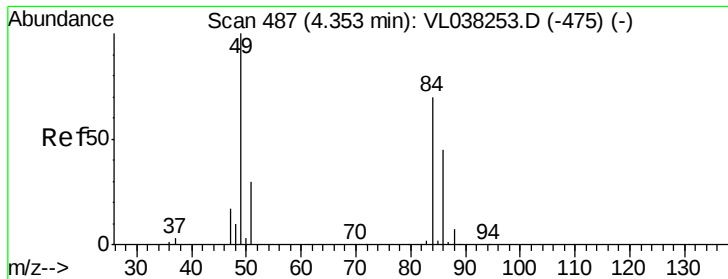
Tgt Ion: 96 Resp: 4981
 Ion Ratio Lower Upper
 96 100
 61 119.0 146.5 219.7#
 98 36.1 51.9 77.9#



#19
 Isopropyl Alcohol
 Concen: 0.069 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.02 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

Tgt Ion: 45 Resp: 2801
 Ion Ratio Lower Upper
 45 100
 58 15.0 2.3 3.5#

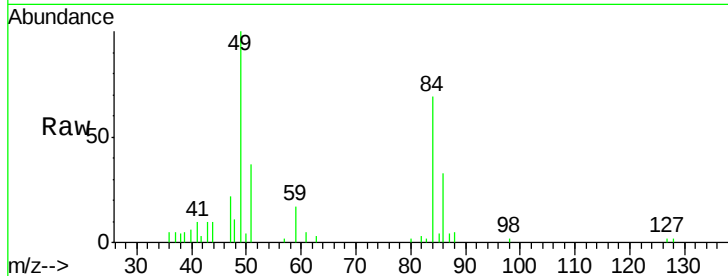




#20
Methylene Chloride
Concen: 0.283 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

Tgt Ion: 84 Resp: 10662

Ion	Ratio	Lower	Upper
84	100		
49	136.6	115.0	172.6
51	50.1	35.0	52.6
86	45.5	51.4	77.0#

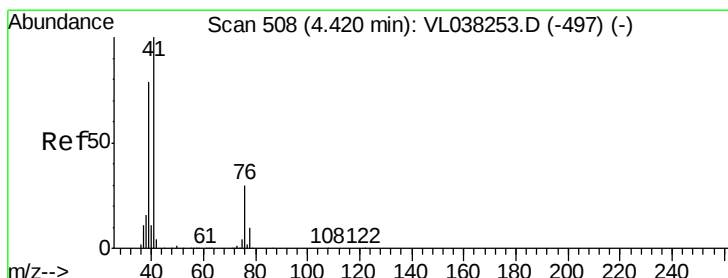
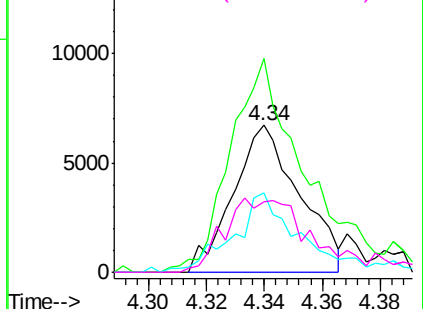
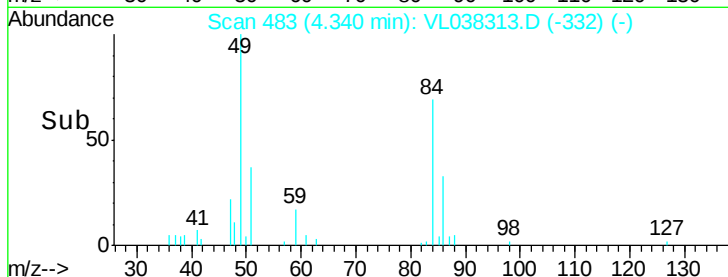


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

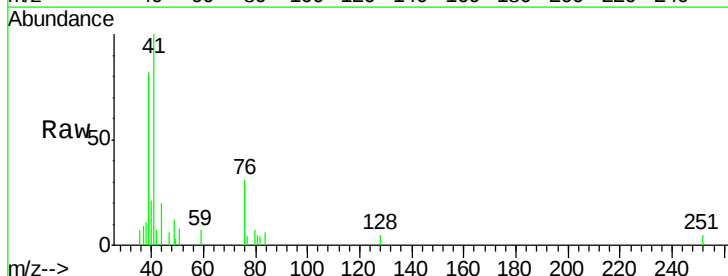
Ion 86.00 (85.70 to 86.70): VL0



#21
Allyl Chloride
Concen: 0.111 ppbv
RT: 4.41 min Scan# 505
Delta R.T. -0.01 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

Tgt Ion: 41 Resp: 6349

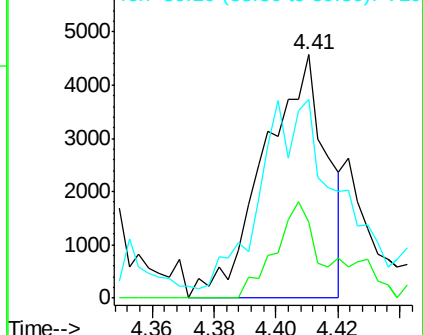
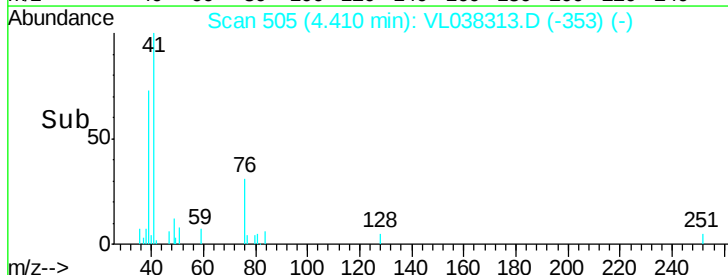
Ion	Ratio	Lower	Upper
41	100		
76	37.7	25.0	37.6#
39	136.8	63.0	94.6#

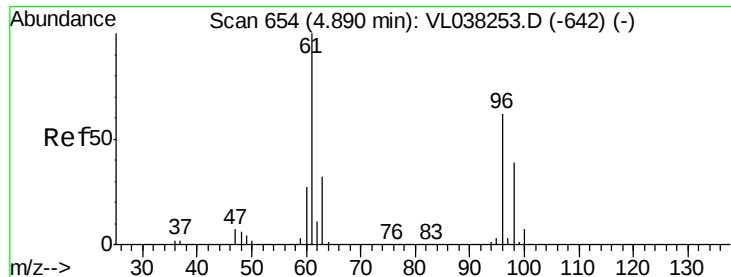


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.115 ppbv

RT: 4.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

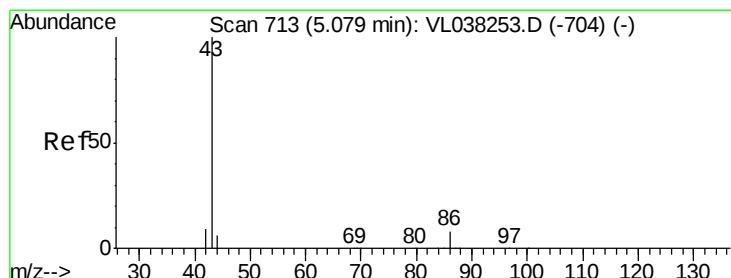
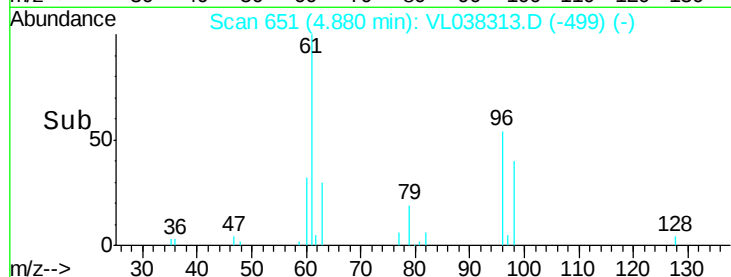
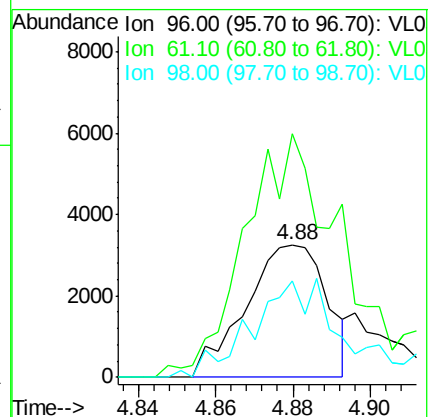
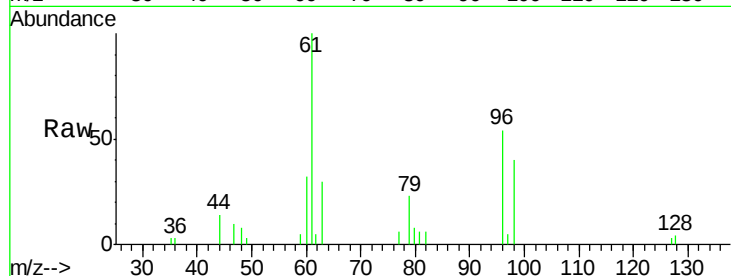
Tgt Ion: 96 Resp: 4745

Ion Ratio Lower Upper

96 100

61 183.7 128.8 193.2

98 73.2 49.8 74.8



#23

Vinyl Acetate

Concen: 0.037 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

Tgt Ion: 43 Resp: 3486

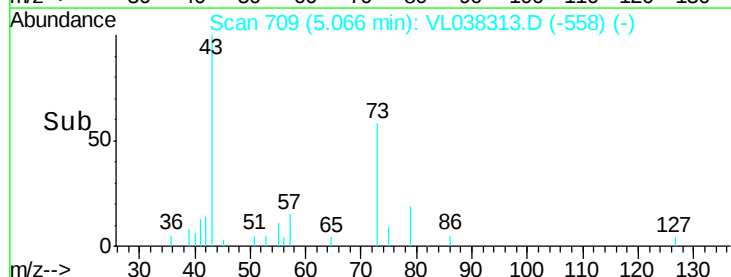
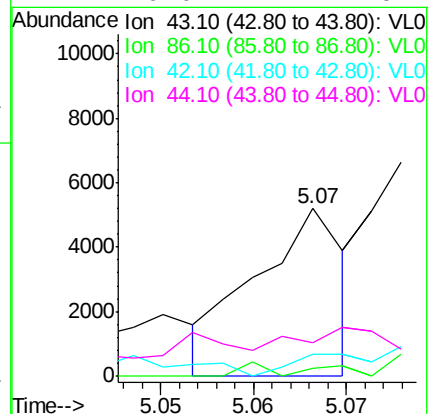
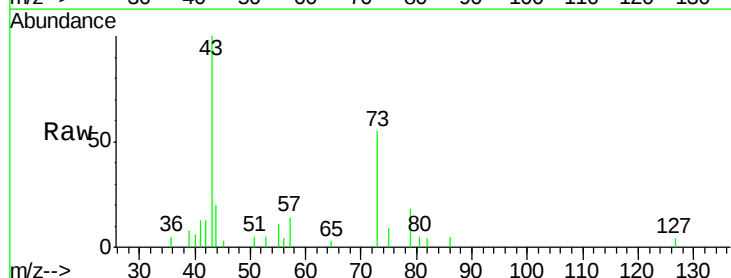
Ion Ratio Lower Upper

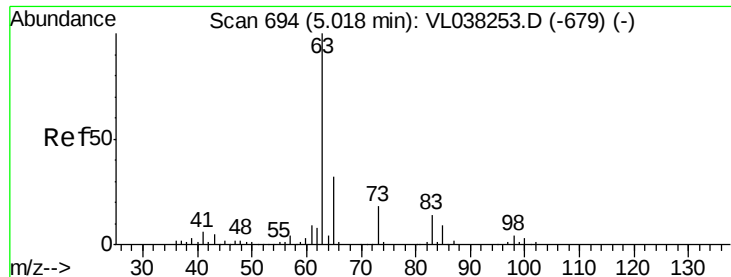
43 100

86 6.6 5.7 8.5

42 9.3 7.7 11.5

44 0.0 4.2 6.4#





#24

1,1-Dichloroethane

Concen: 0.095 ppbv

RT: 5.01 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 28 Jan 2022 8:33

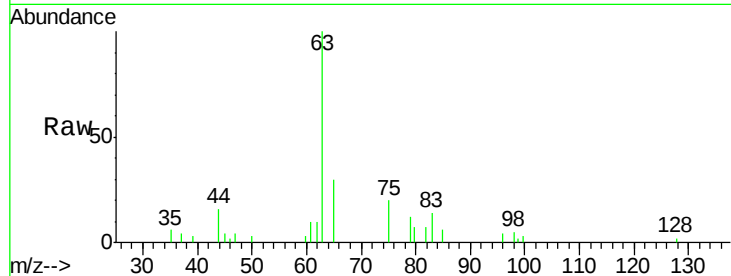
Tgt Ion: 63 Resp: 8010

Ion Ratio Lower Upper

63 100

98 5.4 2.3 6.8

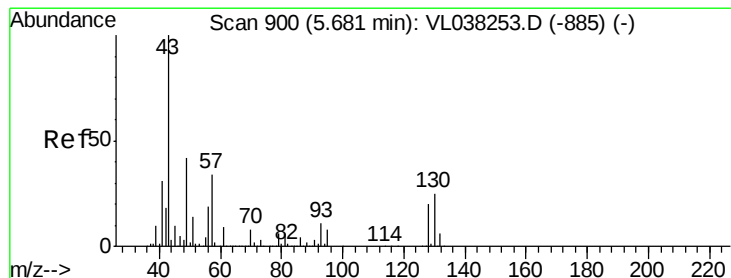
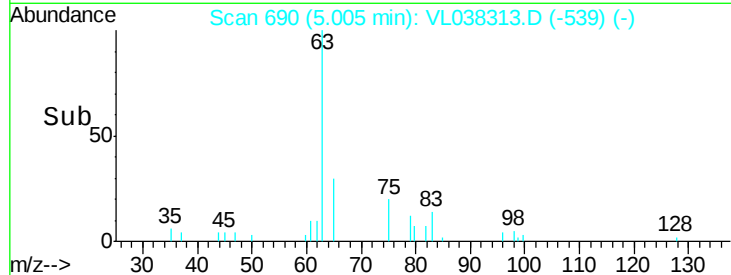
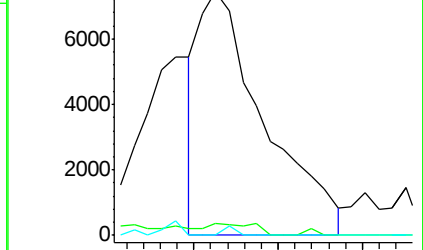
100 0.0 1.3 3.9#



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: 0.130 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

Tgt Ion: 43 Resp: 23595

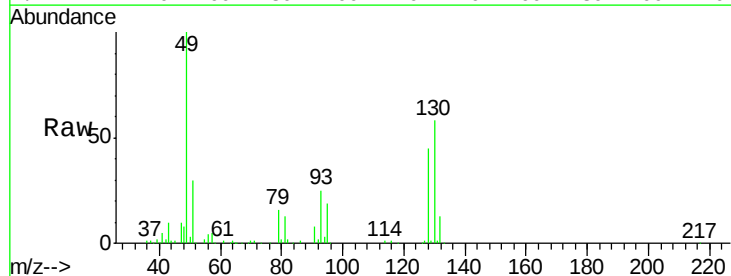
Ion Ratio Lower Upper

43 100

45 13.5 7.9 11.9#

61 11.3 7.8 11.8

70 7.1 5.4 8.0

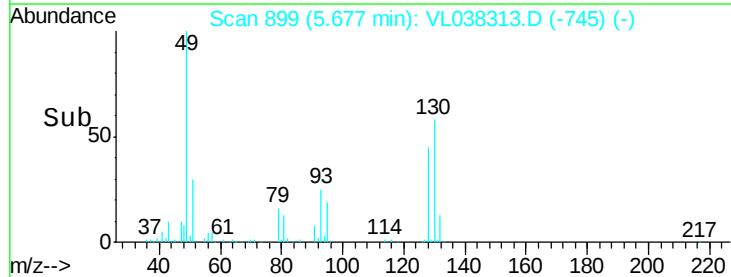
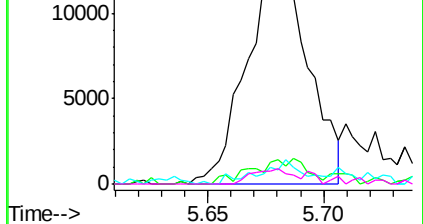


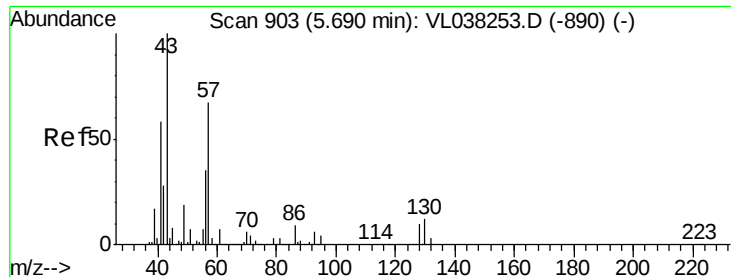
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

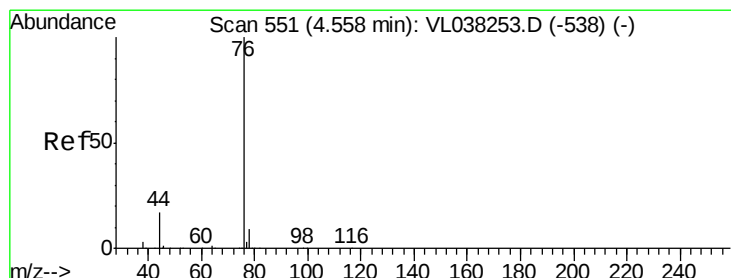
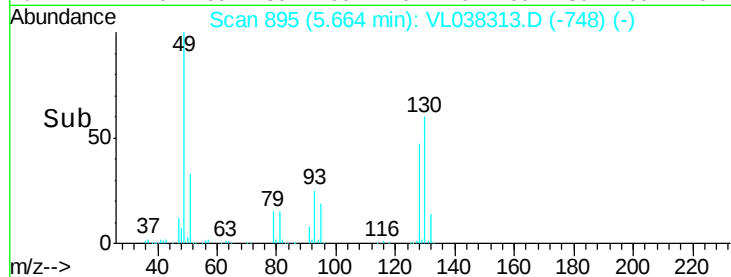
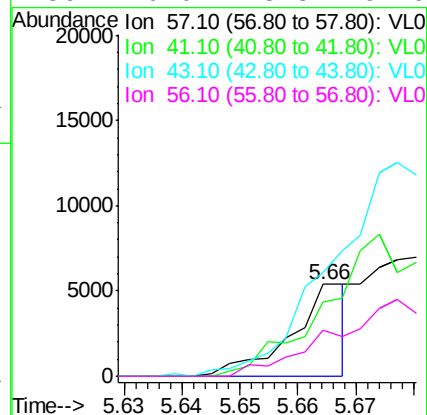
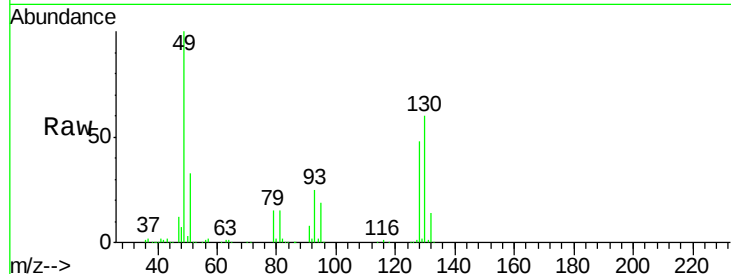
Ion 70.10 (69.80 to 70.80): VL0





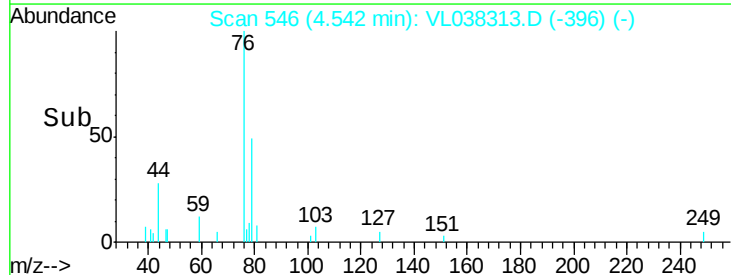
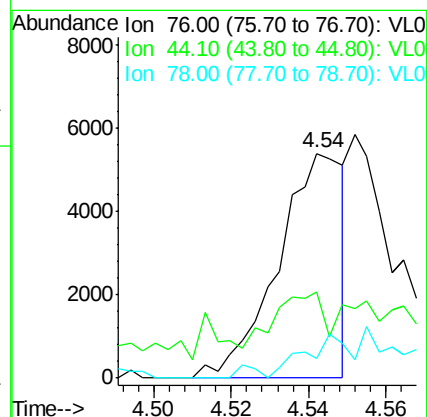
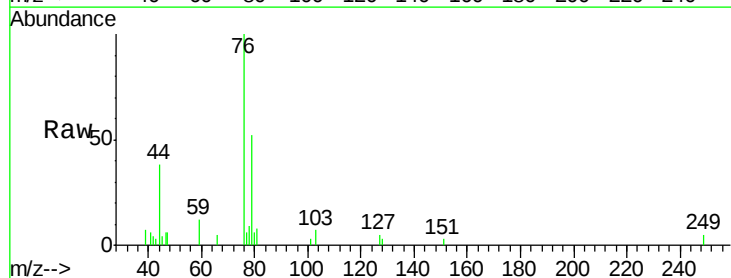
#26
Hexane
Concen: 0.043 ppbv
RT: 5.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

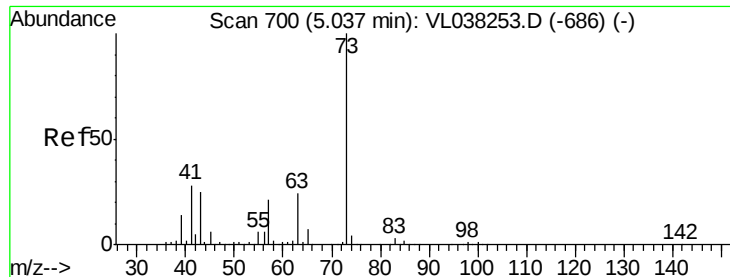
Tgt Ion:	57	Resp:	3631
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.8	109.2#
43	0.0	177.0	265.6#
56	0.0	43.3	64.9#



#27
Carbon Disulfide
Concen: 0.064 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

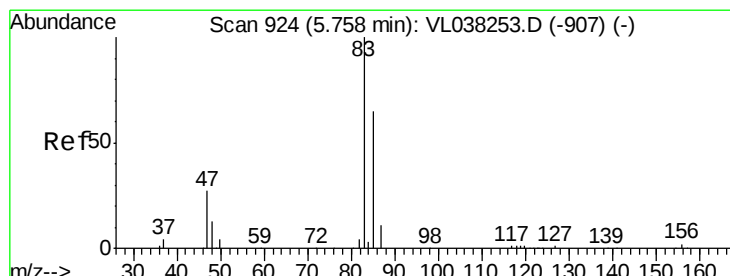
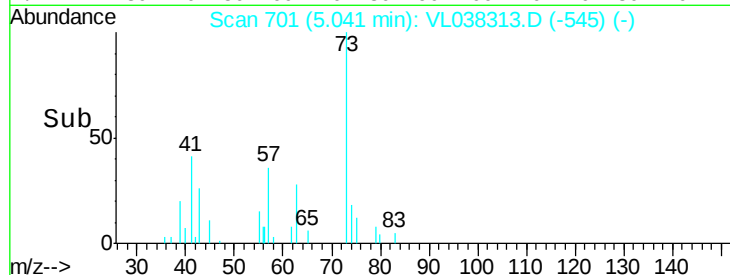
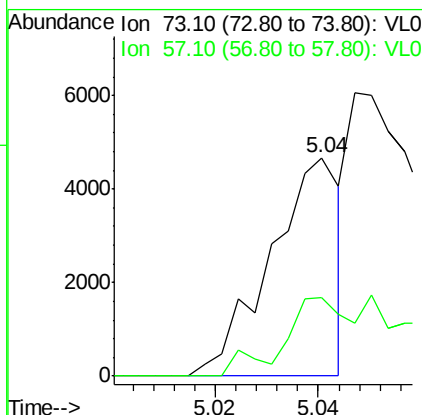
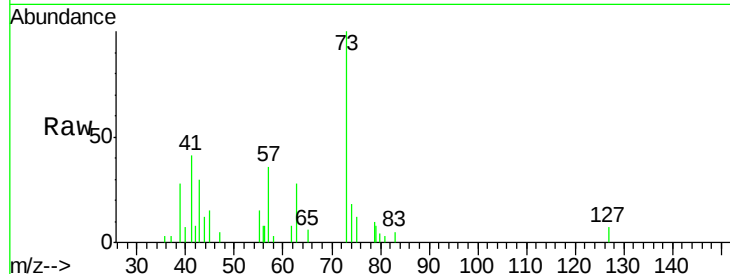
Tgt Ion:	76	Resp:	6337
Ion	Ratio	Lower	Upper
76	100		
44	26.4	14.8	22.2#
78	0.0	7.9	11.9#





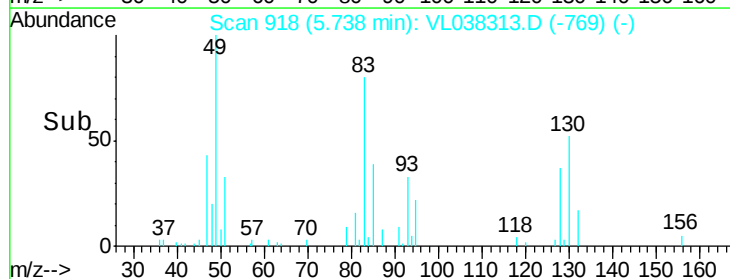
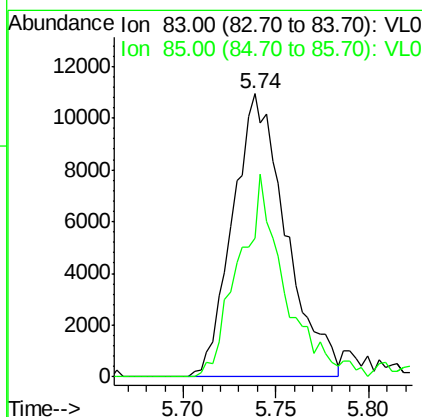
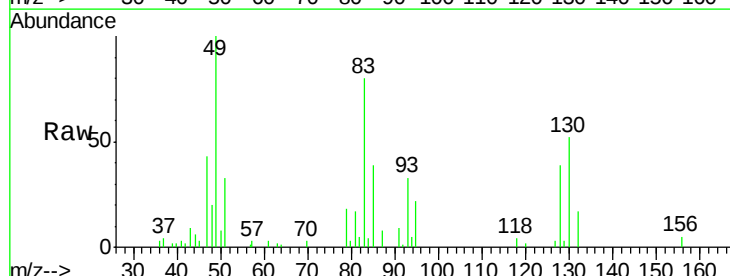
#28
Methyl tert-Butyl Ether
Concen: 0.050 ppbv
RT: 5.04
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
QC012722 CAN 10667
Acq: 28 Jan 2022 8:33

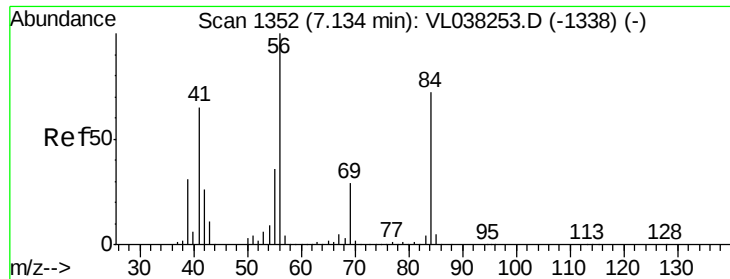
Tgt Ion: 73 Resp: 4383
Ion Ratio Lower Upper
73 100
57 0.0 18.2 27.4#



#29
Chloroform
Concen: 0.159 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

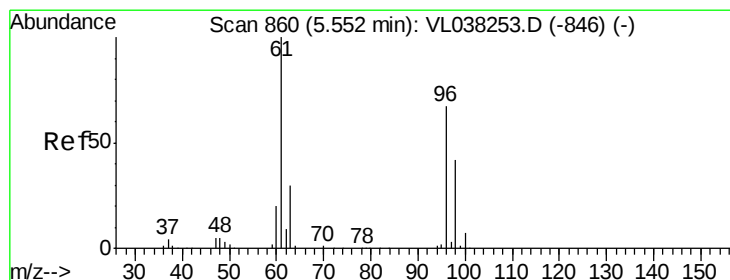
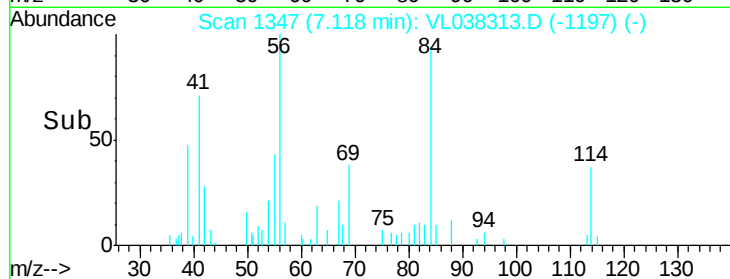
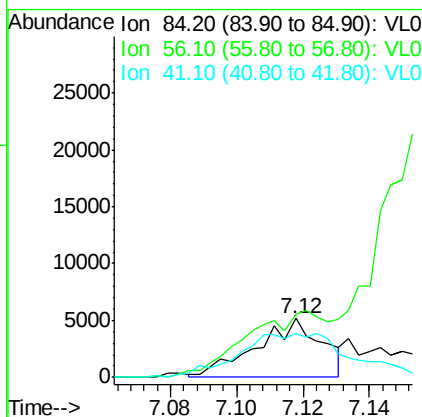
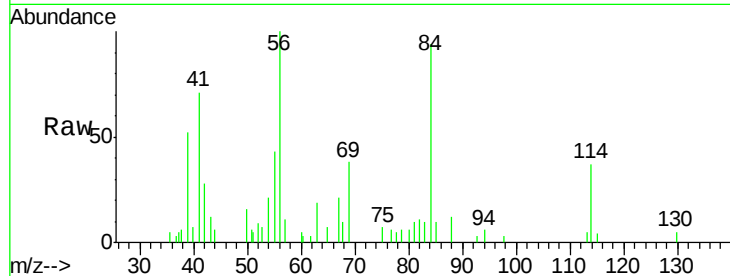
Tgt Ion: 83 Resp: 21948
Ion Ratio Lower Upper
83 100
85 48.9 51.9 77.9#





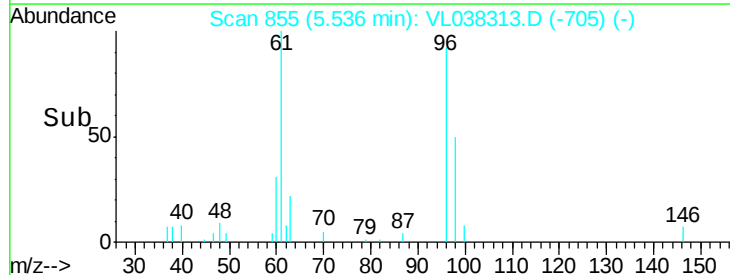
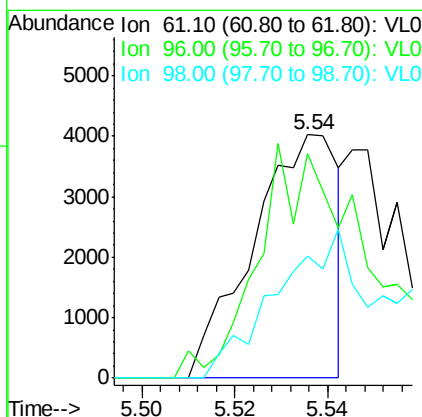
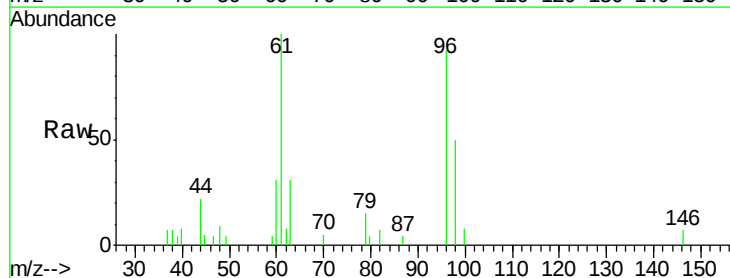
#30
Cyclohexane
Concen: 0.096 ppbv
RT: 7.12
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

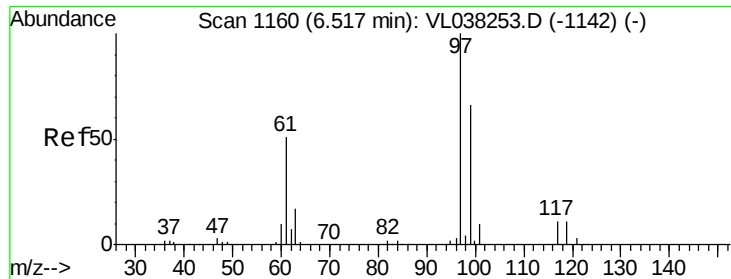
Tgt Ion: 84 Resp: 7084
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 136.9 71.1 106.7#



#31
cis-1,2-Dichloroethene
Concen: 0.070 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

Tgt Ion: 61 Resp: 5149
Ion Ratio Lower Upper
61 100
96 80.9 53.3 79.9#
98 50.3 33.7 50.5





#32

1,1,1-Trichloroethane

Concen: 0.054 ppbv

RT: 6.49 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

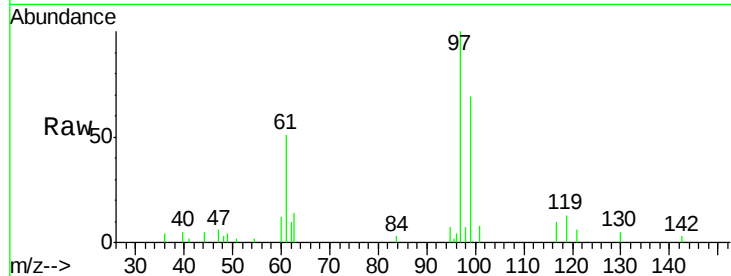
Tgt Ion: 97 Resp: 7454

Ion Ratio Lower Upper

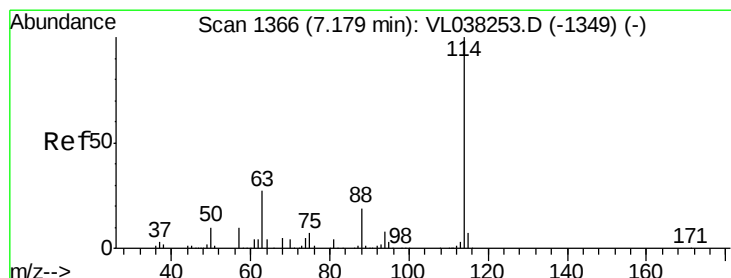
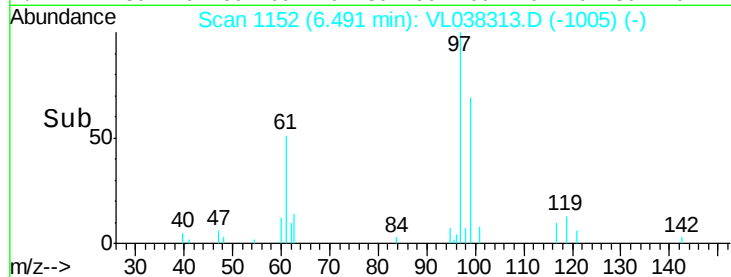
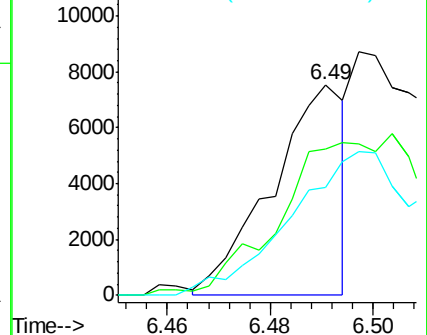
97 100

99 0.0 51.5 77.3#

61 0.0 40.5 60.7#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

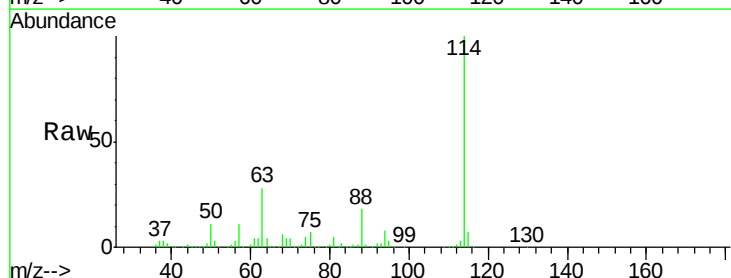
Tgt Ion: 114 Resp: 1985065

Ion Ratio Lower Upper

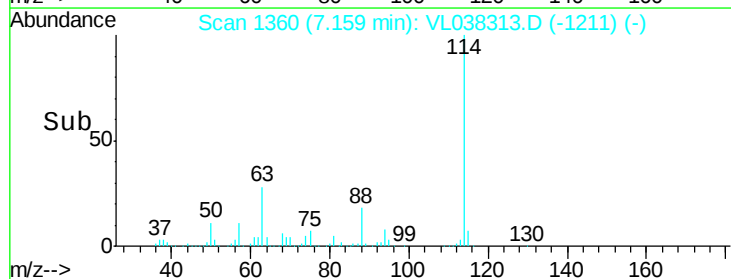
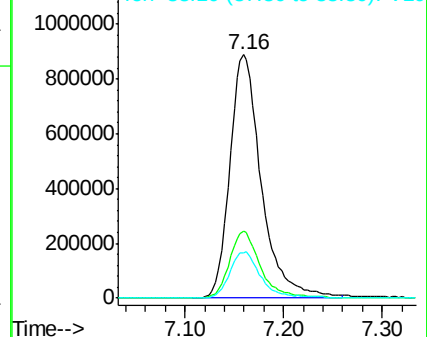
114 100

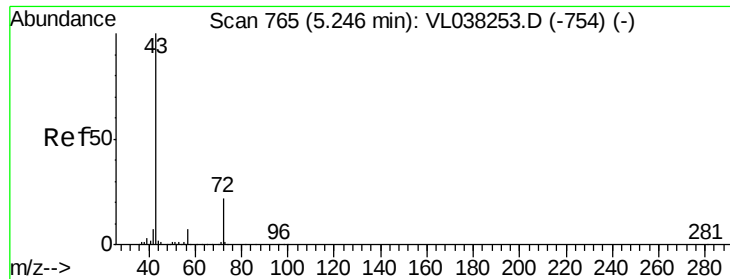
63 27.4 22.0 33.0

88 18.8 15.0 22.6



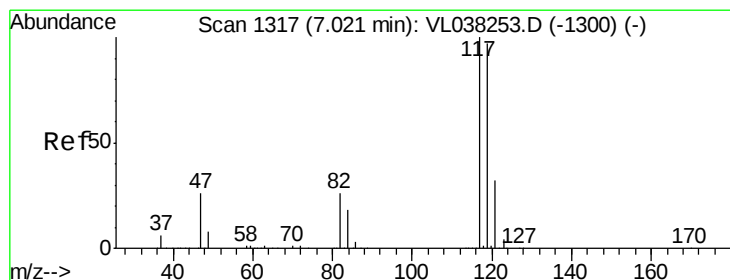
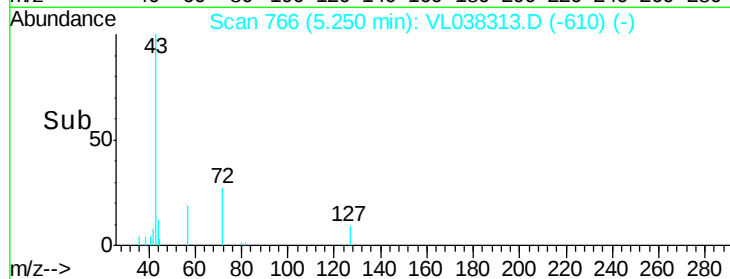
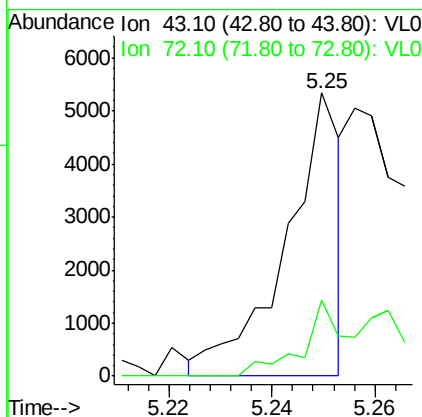
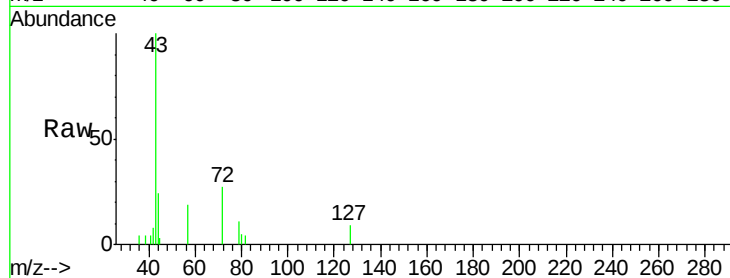
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





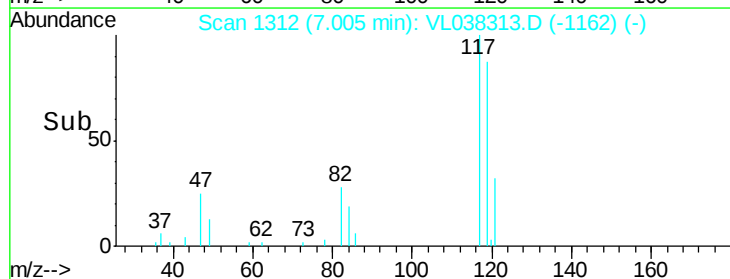
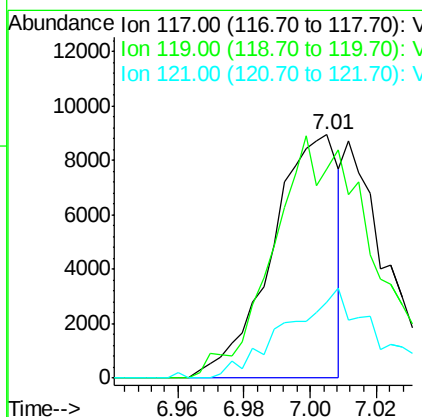
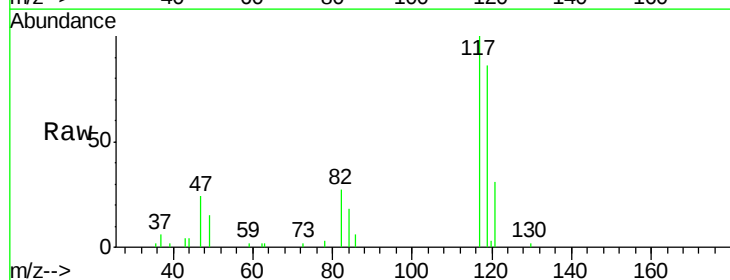
#34
 2-Butanone
 Concen: 0.061 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 OC012722 CAN 10667
 Acq: 28 Jan 2022 8:33

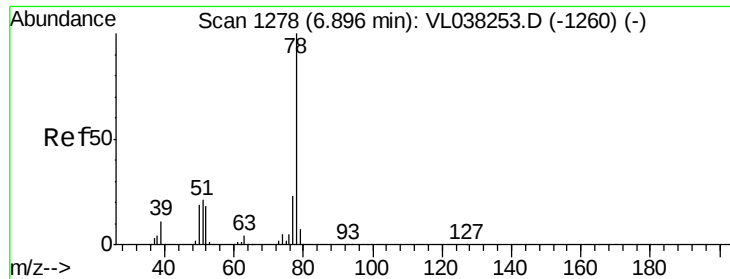
Tgt Ion: 43 Resp: 3930
 Ion Ratio Lower Upper
 43 100
 72 72.0 18.1 27.1#



#35
 Carbon Tetrachloride
 Concen: 0.089 ppbv
 RT: 7.01 min Scan# 1312
 Delta R.T. -0.02 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

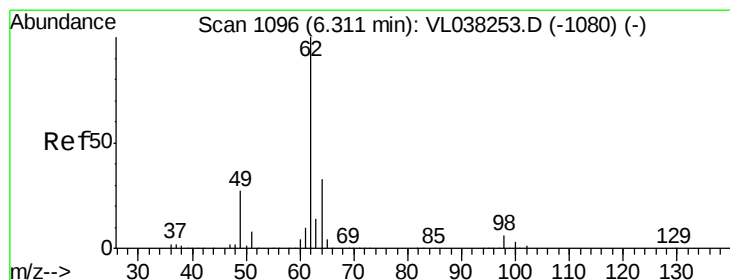
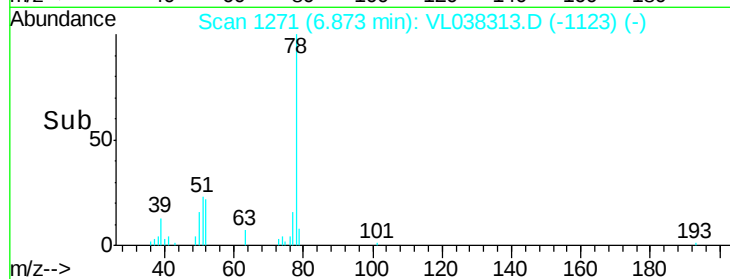
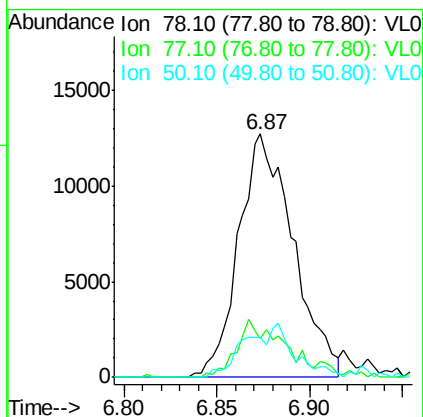
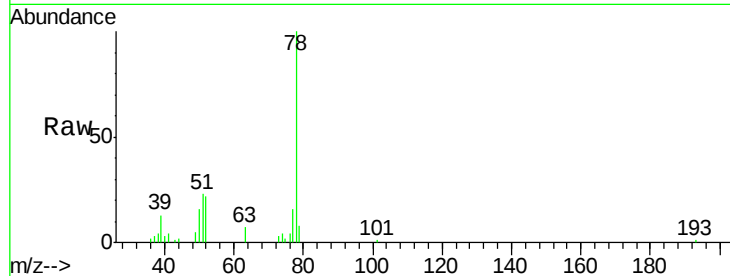
Tgt Ion: 117 Resp: 12420
 Ion Ratio Lower Upper
 117 100
 119 85.8 77.9 116.9
 121 31.4 25.4 38.2





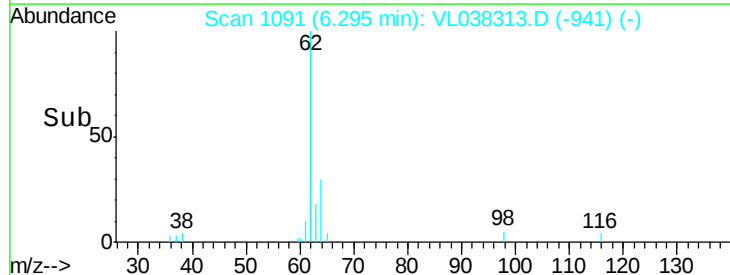
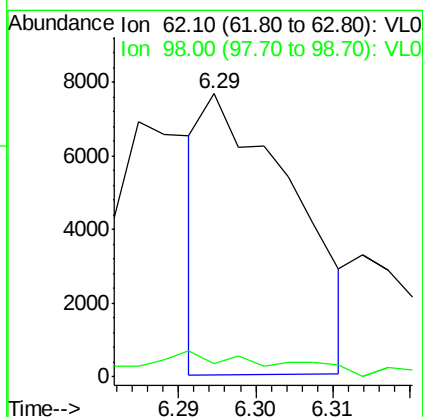
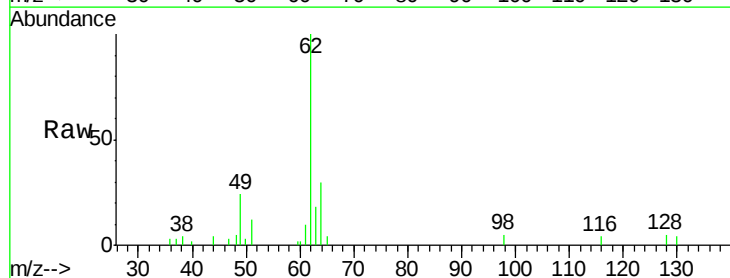
#36
Benzene
Concen: 0.148 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

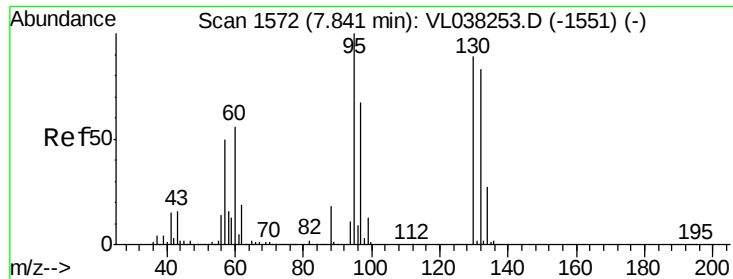
Tgt Ion: 78 Resp: 26038
Ion Ratio Lower Upper
78 100
77 16.2 18.2 27.2#
50 16.5 15.1 22.7



#37
1,2-Dichloroethane
Concen: 0.062 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

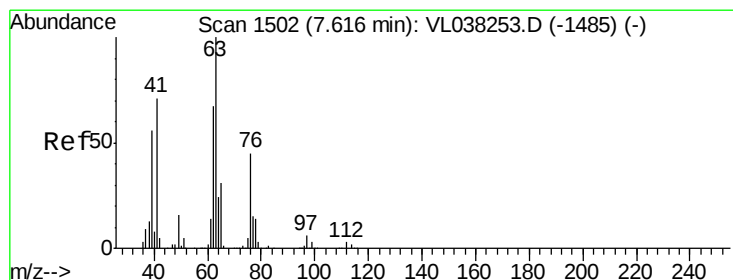
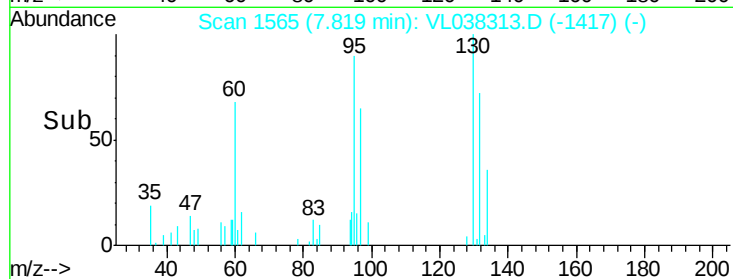
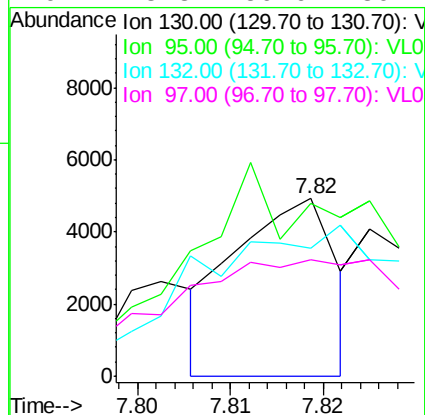
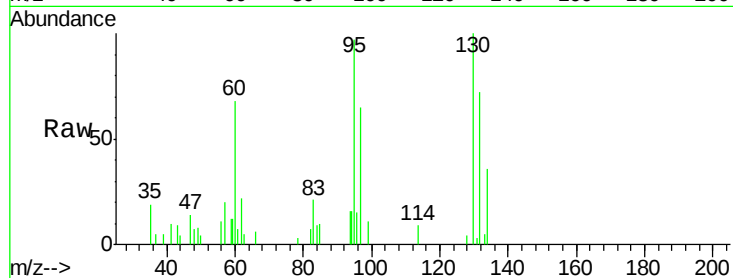
Tgt Ion: 62 Resp: 6251
Ion Ratio Lower Upper
62 100
98 18.4 4.5 6.7#





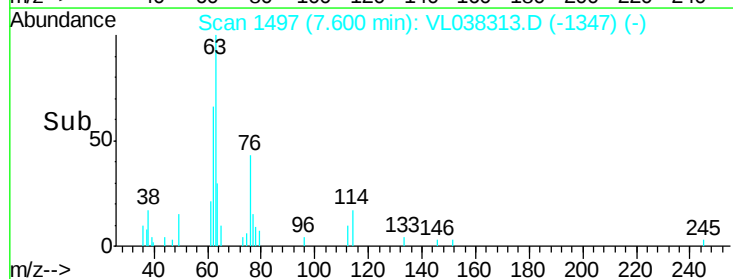
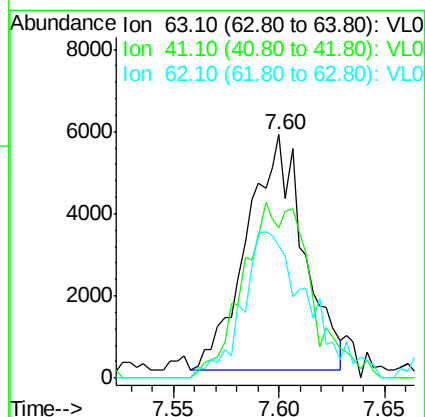
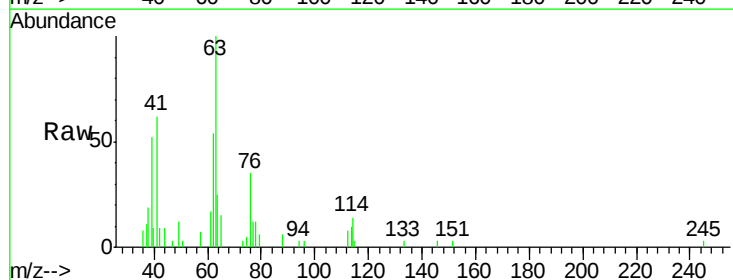
#38
 Trichloroethene
 Concen: 0.057 ppbv
 RT: 7.82 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 QC012722 CAN 10667
 Acq: 28 Jan 2022 8:33

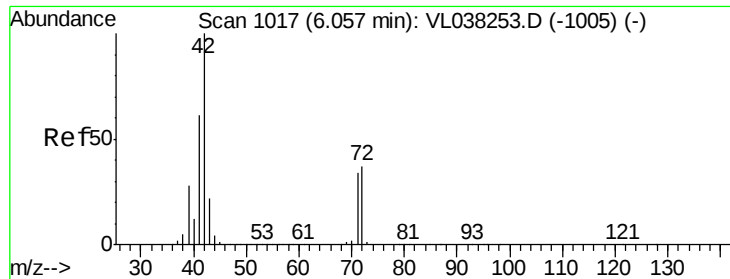
Tgt Ion:	130	Resp:	3719
Ion	Ratio	Lower	Upper
130	100		
95	34.4	89.4	134.2#
132	8.0	74.6	111.8#
97	28.3	59.6	89.4#



#39
 1,2-Dichloropropane
 Concen: 0.151 ppbv
 RT: 7.60 min Scan# 1497
 Delta R.T.: -0.02 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

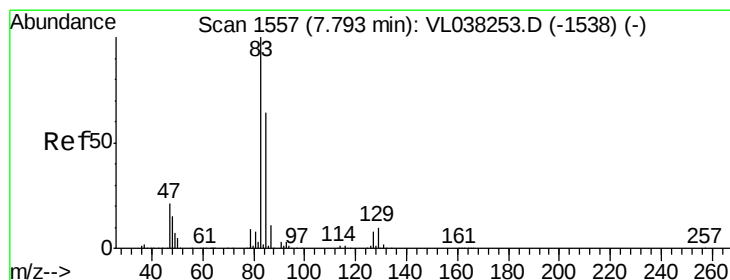
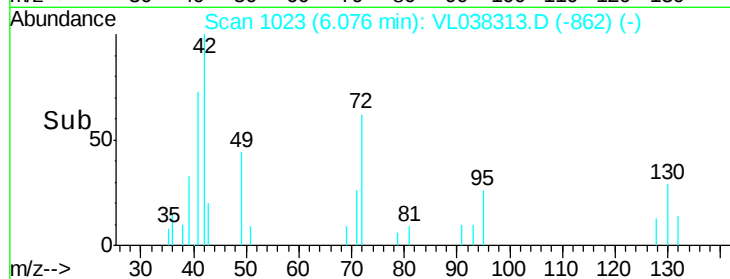
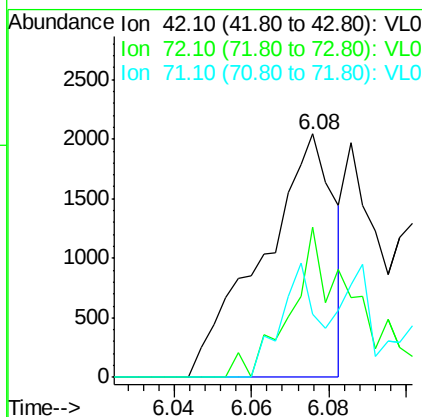
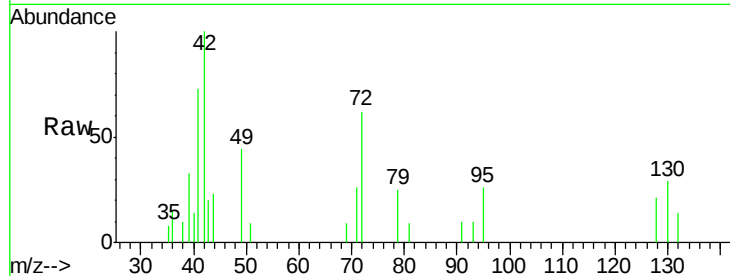
Tgt Ion:	63	Resp:	10740
Ion	Ratio	Lower	Upper
63	100		
41	50.7	56.6	85.0#
62	42.0	53.9	80.9#





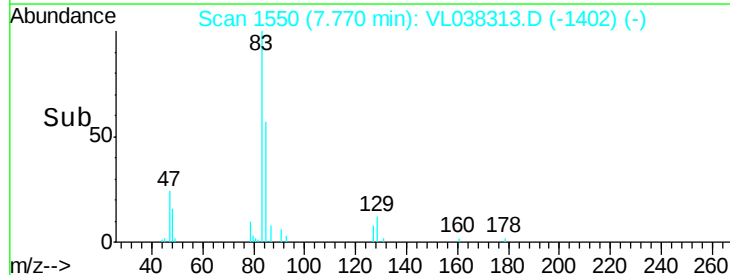
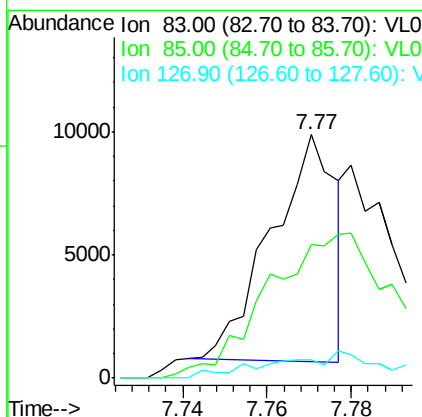
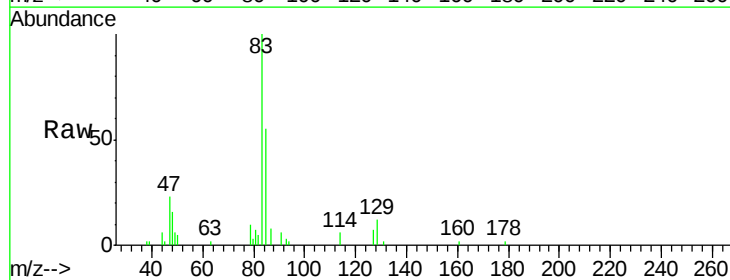
#41
Tetrahydrofuran
Concen: 0.060 ppbv
RT: 6.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

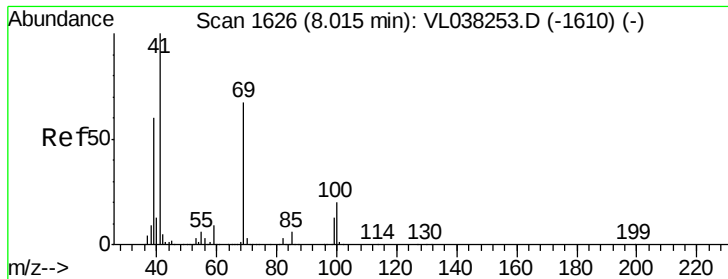
Tgt Ion: 42 Resp: 2620
Ion Ratio Lower Upper
42 100
72 61.8 29.7 44.5#
71 72.4 29.4 44.2#



#42
Bromodichloromethane
Concen: 0.066 ppbv
RT: 7.77 min Scan# 1550
Delta R.T.: -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

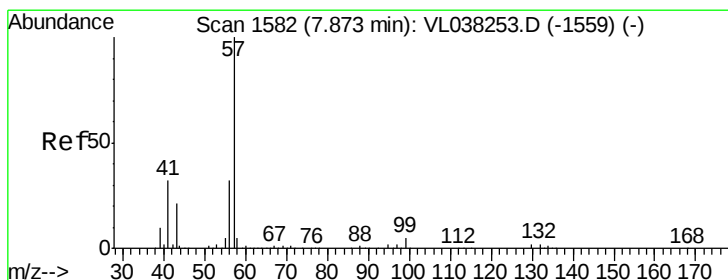
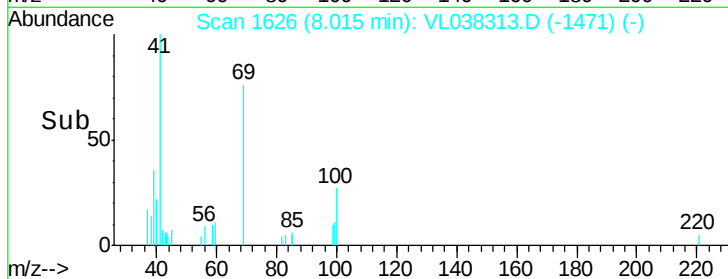
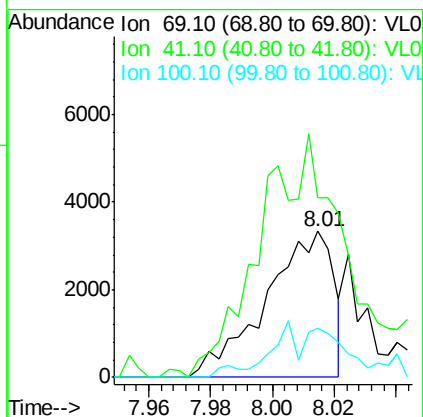
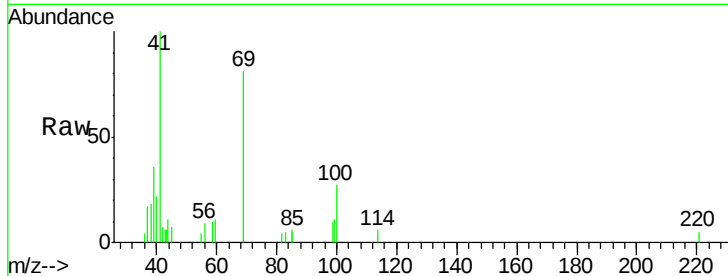
Tgt Ion: 83 Resp: 9787
Ion Ratio Lower Upper
83 100
85 54.8 51.5 77.3
127 8.1 6.2 9.4





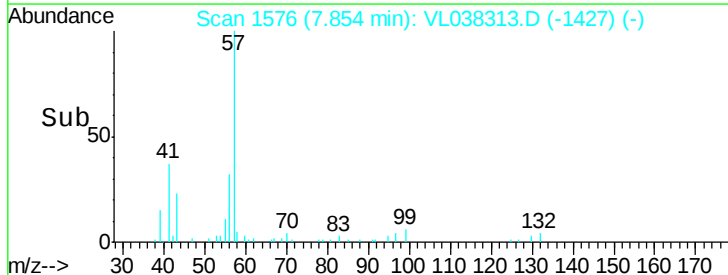
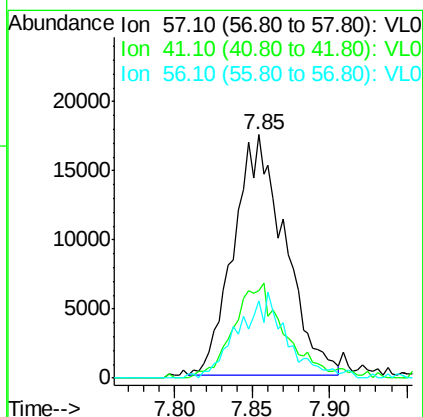
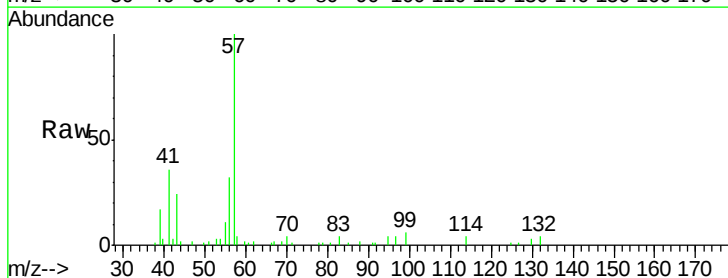
#43
Methyl Methacrylate
Concen: 0.081 ppbv
RT: 8.01 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

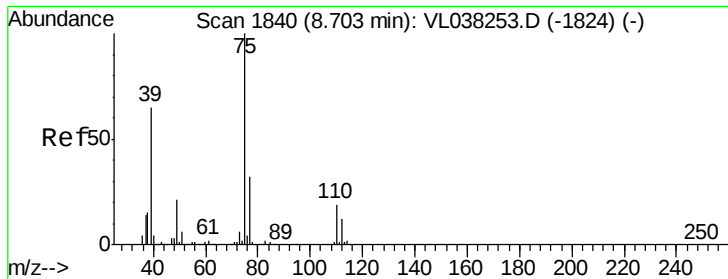
Tgt Ion: 69 Resp: 5052
Ion Ratio Lower Upper
69 100
41 227.7 120.9 181.3#
100 40.0 23.4 35.0#



#44
2,2,4-Trimethylpentane
Concen: 0.129 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

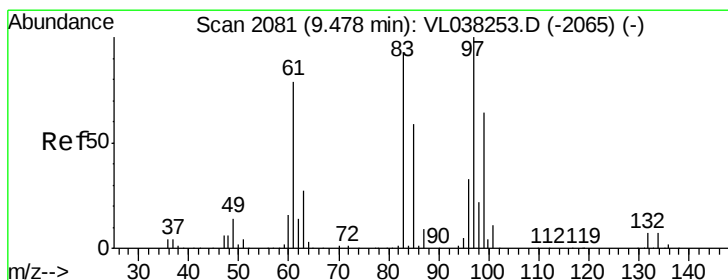
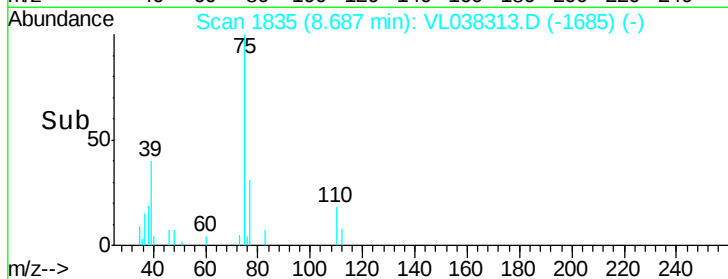
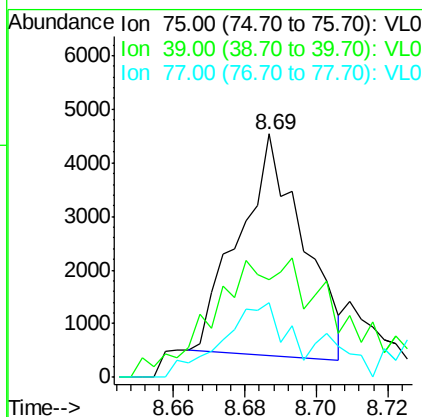
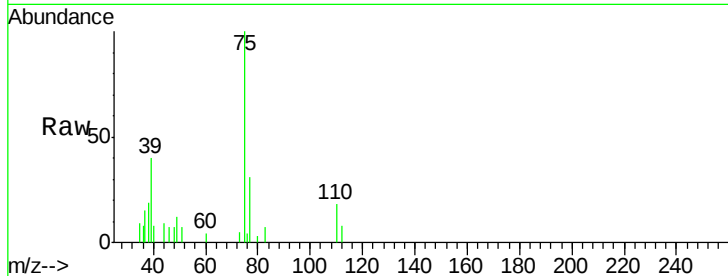
Tgt Ion: 57 Resp: 39791
Ion Ratio Lower Upper
57 100
41 40.9 26.3 39.5#
56 34.0 25.2 37.8





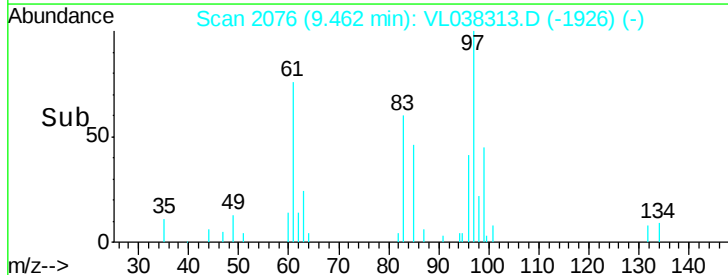
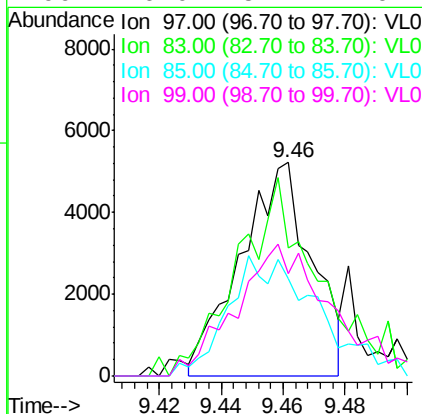
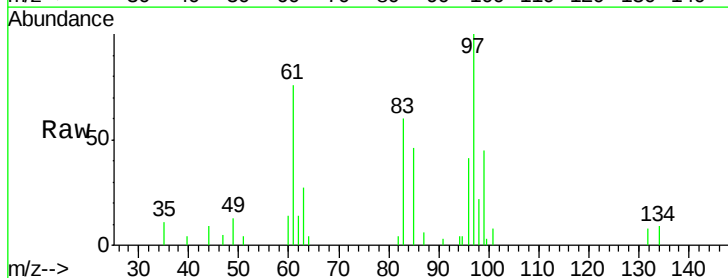
#46
 cis-1,3-Dichloropropene
 Concen: 0.076 ppbv
 RT: 8.69
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 QC012722 CAN 10667
 Acq: 28 Jan 2022 8:33

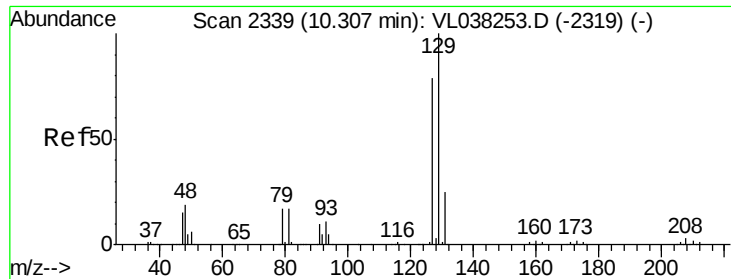
Tgt Ion: 75 Resp: 5124
 Ion Ratio Lower Upper
 75 100
 39 30.3 52.3 78.5#
 77 26.7 25.4 38.0



#47
 1,1,2-Trichloroethane
 Concen: 0.119 ppbv
 RT: 9.46 min Scan# 2076
 Delta R.T. -0.02 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

Tgt Ion: 97 Resp: 8311
 Ion Ratio Lower Upper
 97 100
 83 54.6 74.3 111.5#
 85 43.5 47.5 71.3#
 99 46.0 51.1 76.7#





#48

Dibromochloromethane

Concen: 0.034 ppbv

RT: 10.28 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

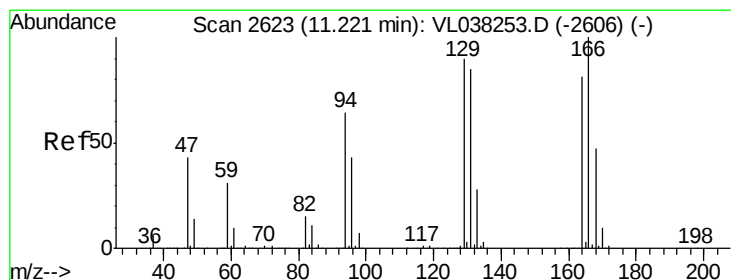
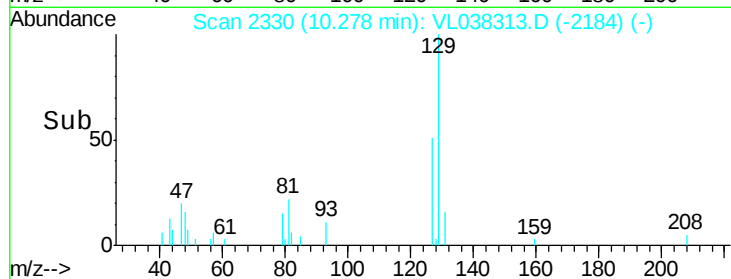
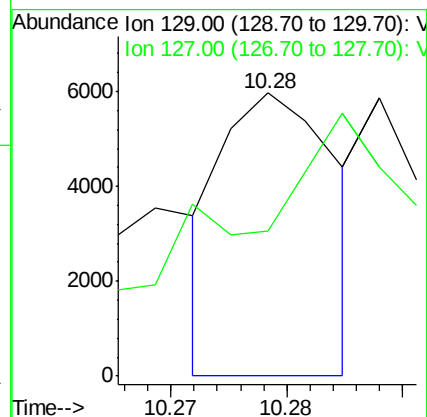
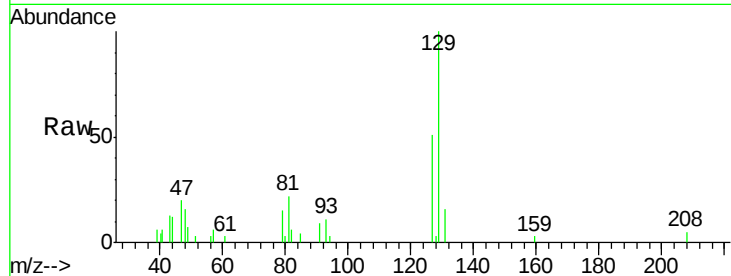
Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

Tgt Ion:129 Resp: 4041

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



#52

Tetrachloroethene

Concen: 0.069 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.02 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

Tgt Ion:164 Resp: 4179

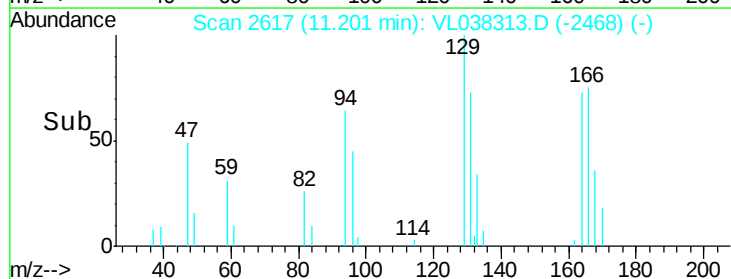
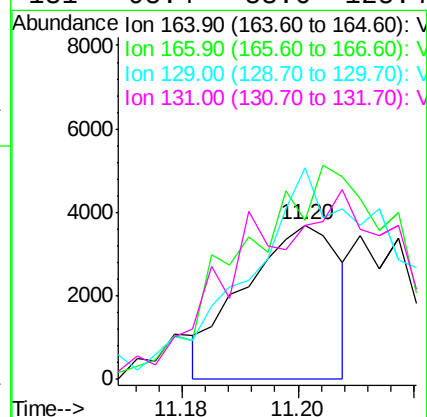
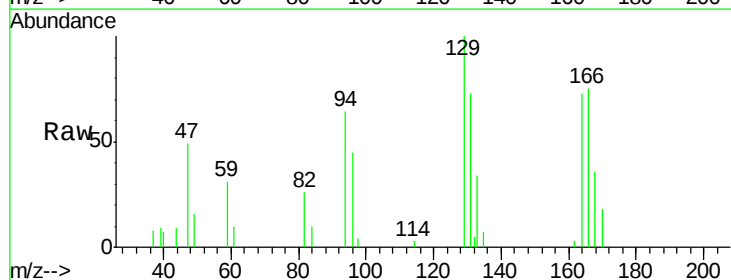
Ion Ratio Lower Upper

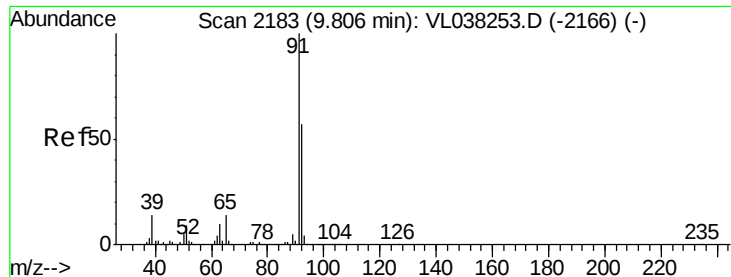
164 100

166 110.4 98.8 148.2

129 158.0 89.2 133.8#

131 95.4 83.6 125.4





#53

Toluene

Concen: 0.062 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

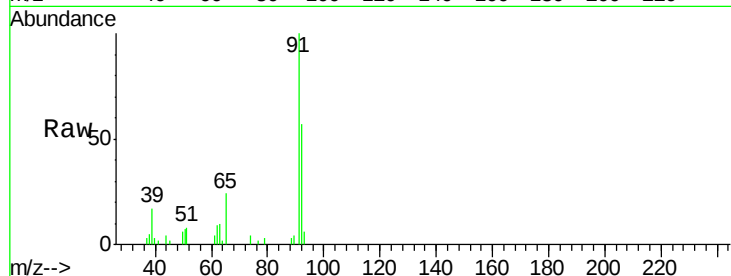
Acq: 28 Jan 2022 8:33 QC012722 CAN 10667

Tgt Ion: 91 Resp: 12049

Ion Ratio Lower Upper

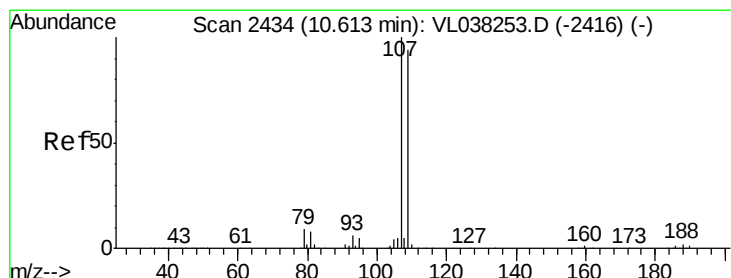
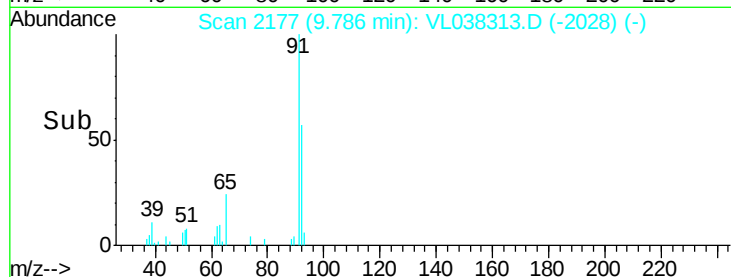
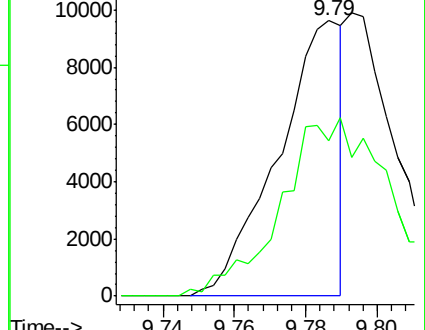
91 100

92 0.0 47.4 71.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.106 ppbv

RT: 10.59 min Scan# 2427

Delta R.T. -0.02 min

Lab File: VL038313.D

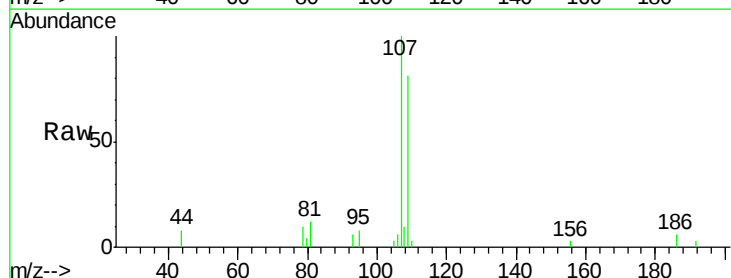
Acq: 28 Jan 2022 8:33

Tgt Ion: 107 Resp: 10574

Ion Ratio Lower Upper

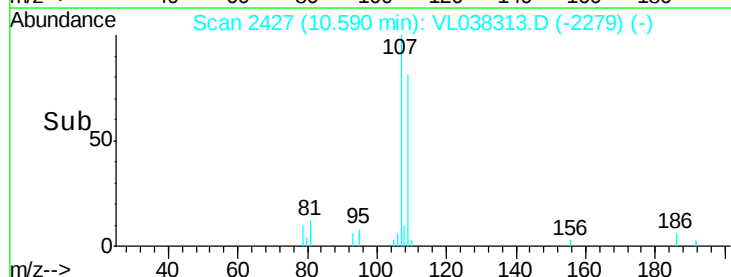
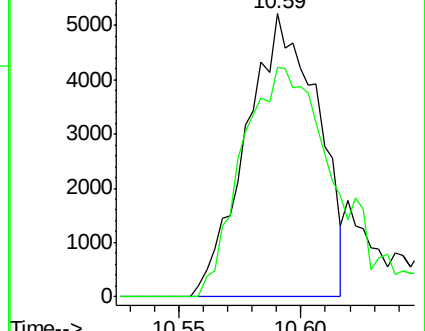
107 100

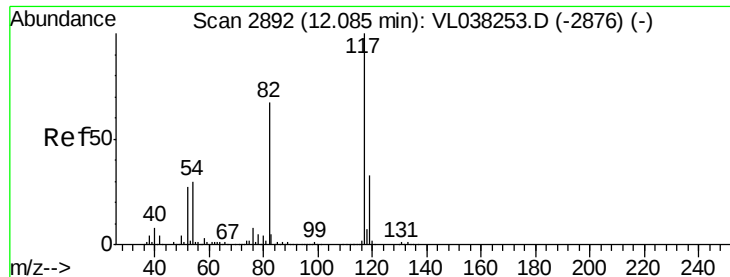
109 81.2 75.4 113.0



Abundance Ion 107.00 (106.70 to 107.70): V

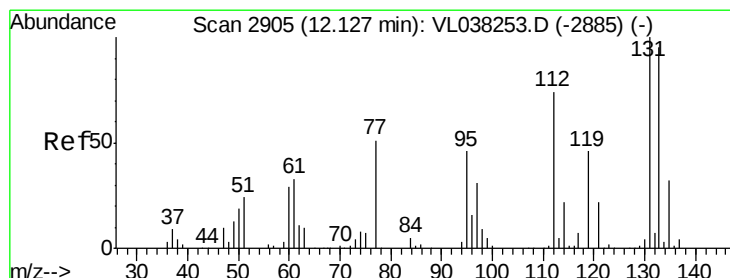
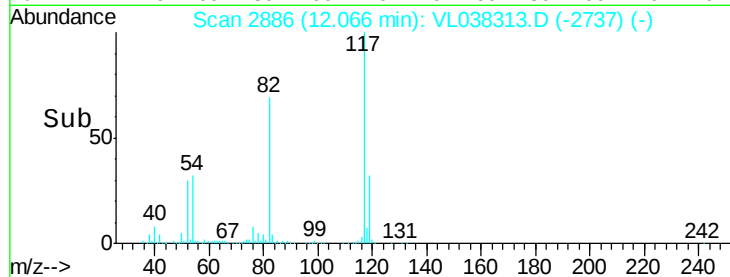
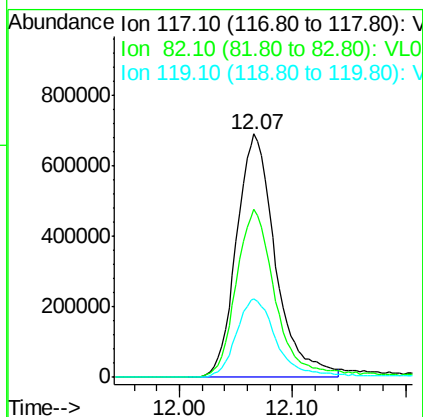
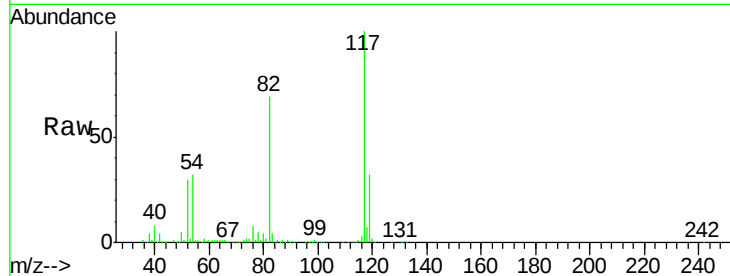
Ion 109.00 (108.70 to 109.70): V





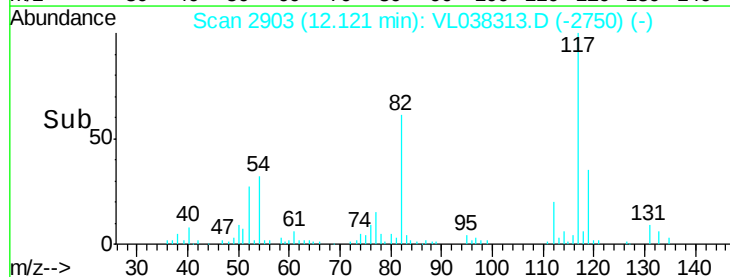
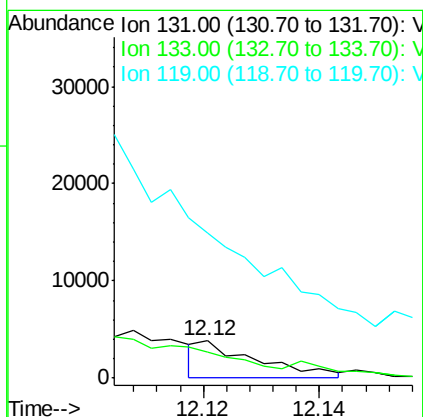
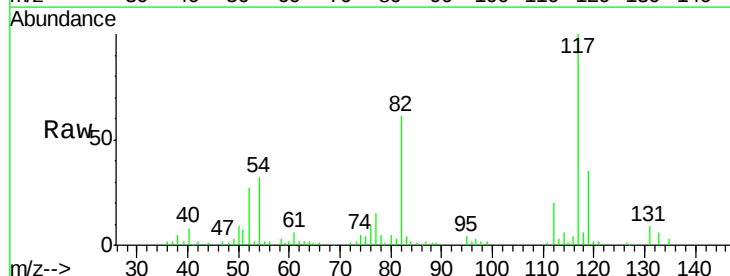
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
QC012722 CAN 10667
Acq: 28 Jan 2022 8:33

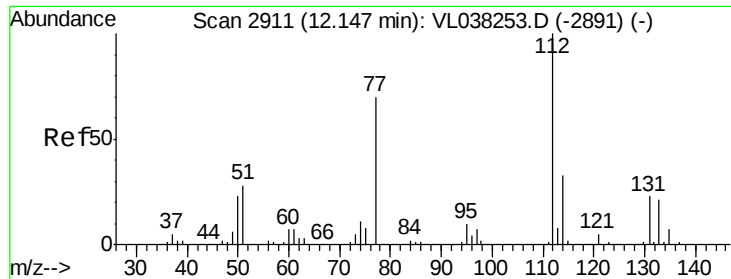
Tgt Ion:117 Resp: 1651706
Ion Ratio Lower Upper
117 100
82 72.4 54.4 81.6
119 34.8 45.9 68.9#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.038 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.01 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

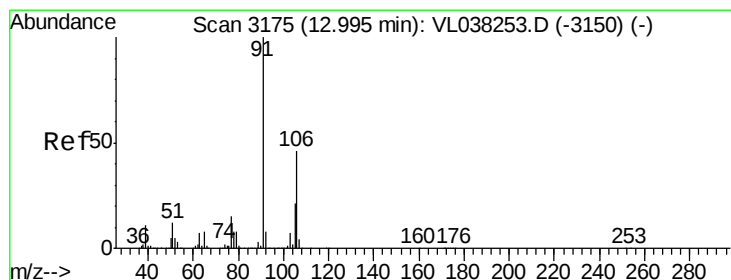
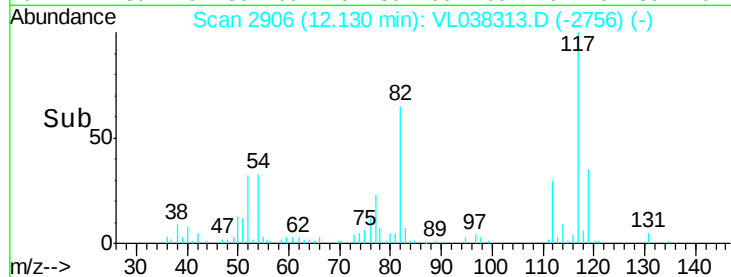
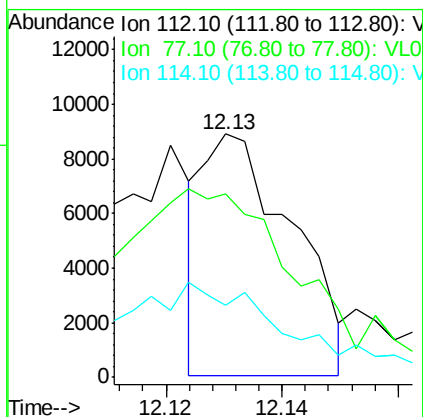
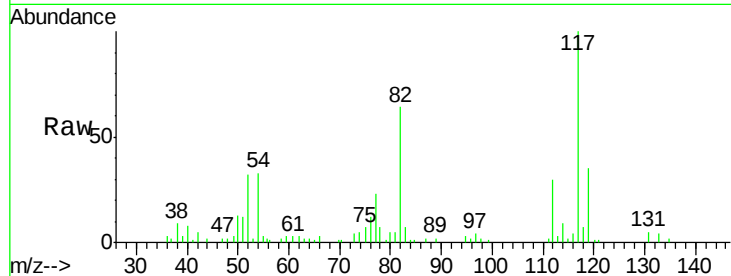
Tgt Ion:131 Resp: 2715
Ion Ratio Lower Upper
131 100
133 0.0 76.0 114.0#
119 0.0 53.0 79.4#





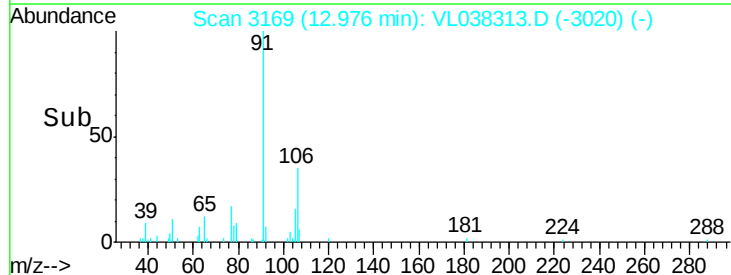
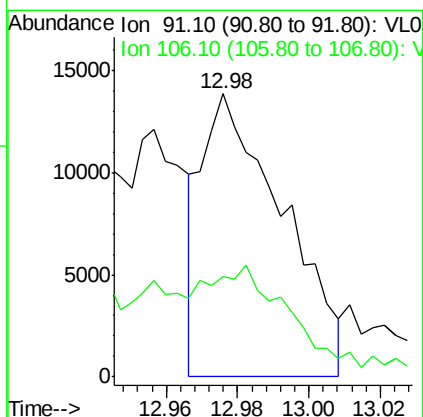
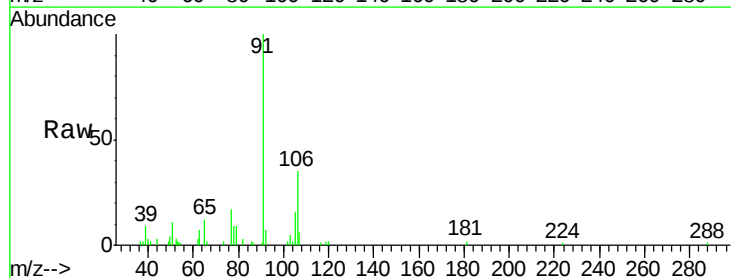
#57
Chlorobenzene
Concen: 0.071 ppbv
RT: 12.13
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
QC012722 CAN 10667
Acq: 28 Jan 2022 8:33

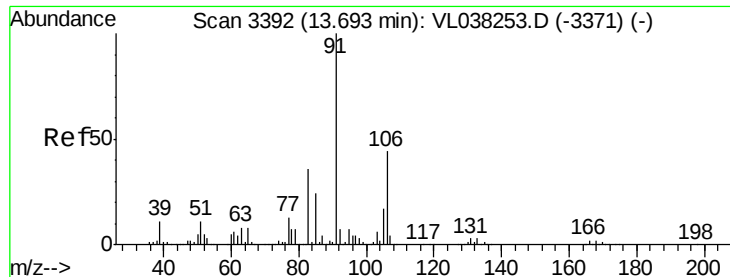
Tgt Ion: 112 Resp: 9411
Ion Ratio Lower Upper
112 100
77 36.2 55.9 83.9#
114 26.2 29.3 35.9#



#59
m/p-Xylene
Concen: 0.105 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

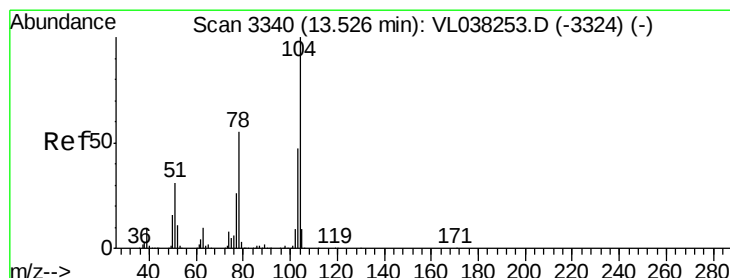
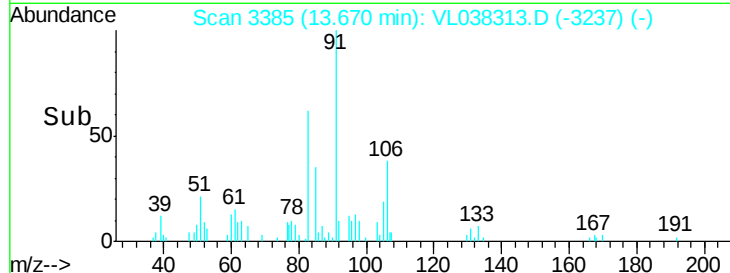
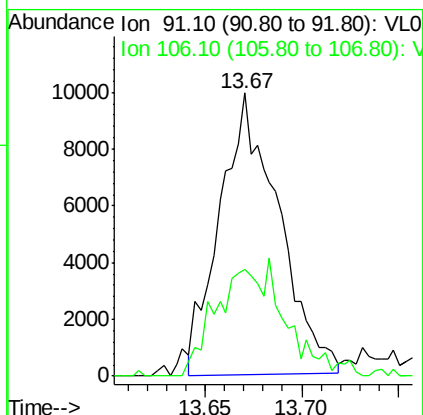
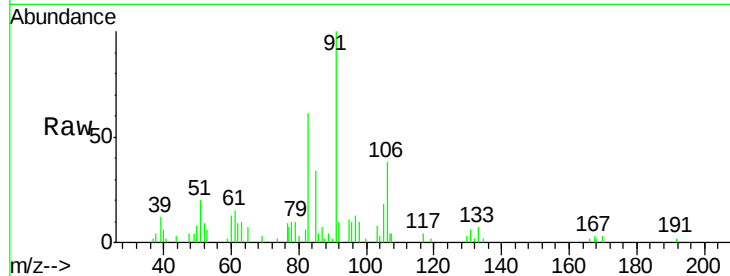
Tgt Ion: 91 Resp: 21752
Ion Ratio Lower Upper
91 100
106 95.8 34.8 52.2#





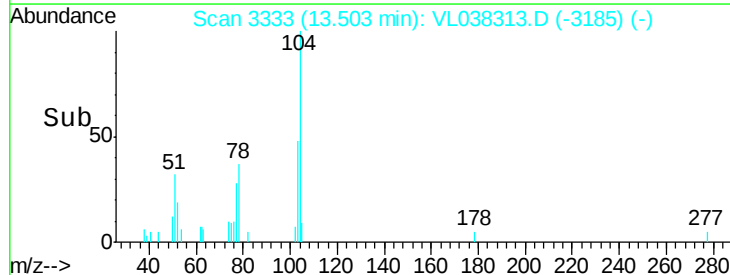
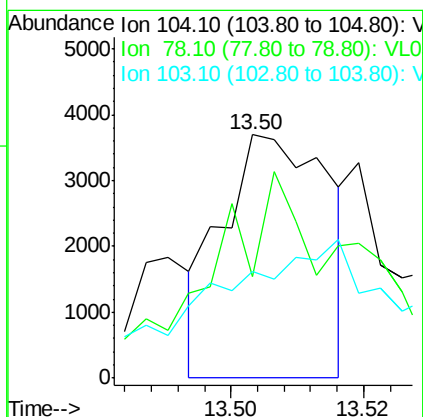
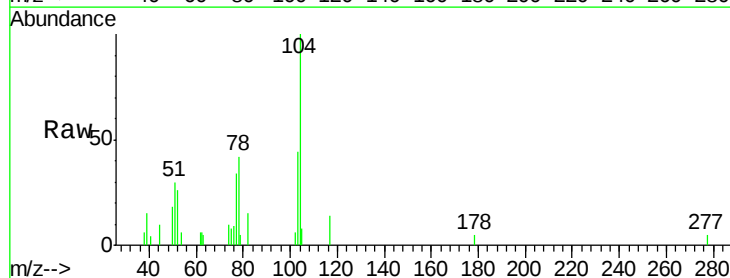
#60
o-Xylene
Concen: 0.109 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

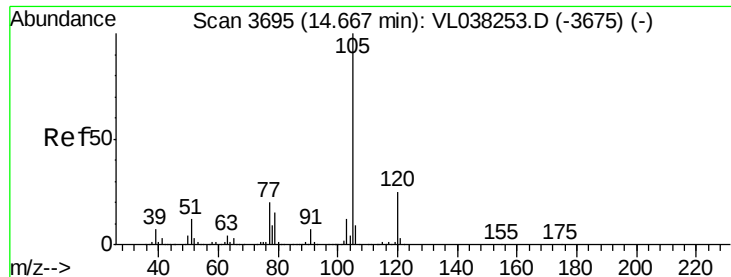
Tgt Ion: 91 Resp: 20934
Ion Ratio Lower Upper
91 100
106 47.4 22.2 66.6



#61
Styrene
Concen: 0.046 ppbv
RT: 13.50 min Scan# 3333
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

Tgt Ion: 104 Resp: 4118
Ion Ratio Lower Upper
104 100
78 146.6 44.2 66.4#
103 0.0 38.2 57.4#





#62

Isopropylbenzene

Concen: 0.054 ppbv

RT: 14.64

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

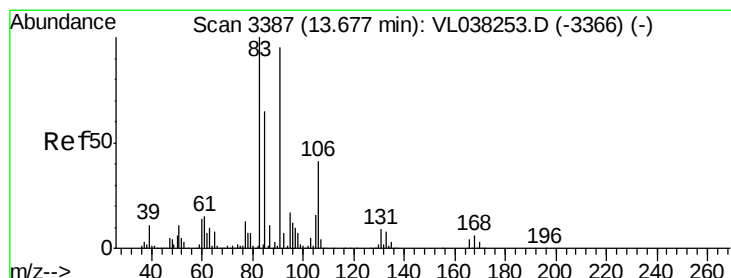
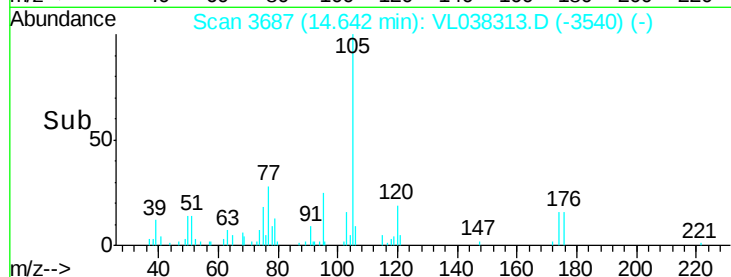
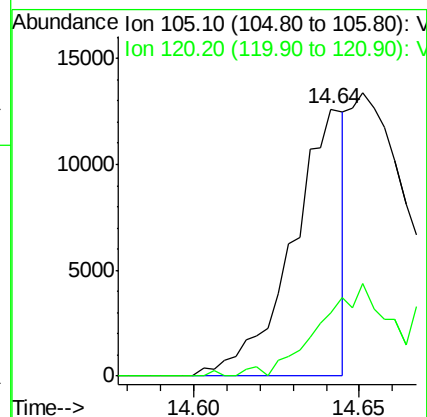
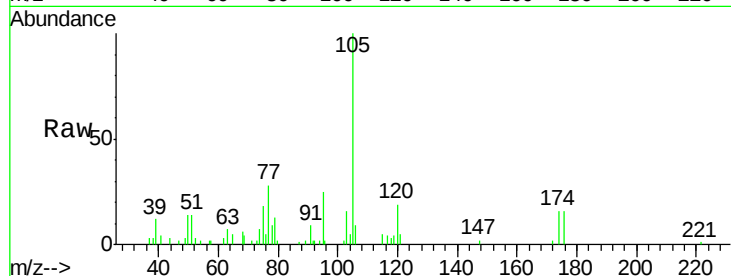
Acq: 28 Jan 2022 8:33

Tgt Ion: 105 Resp: 13802

Ion Ratio Lower Upper

105 100

120 0.0 20.5 30.7#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.067 ppbv

RT: 13.65 min Scan# 3380

Delta R.T. -0.02 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

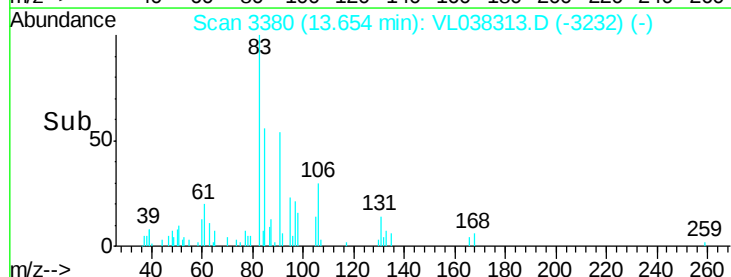
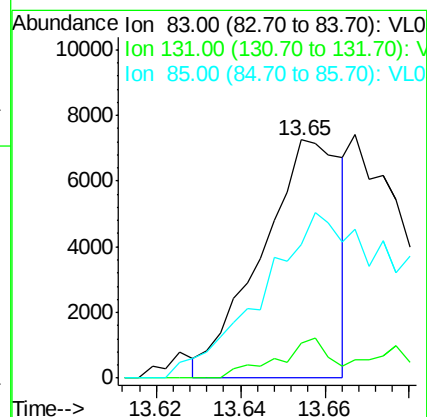
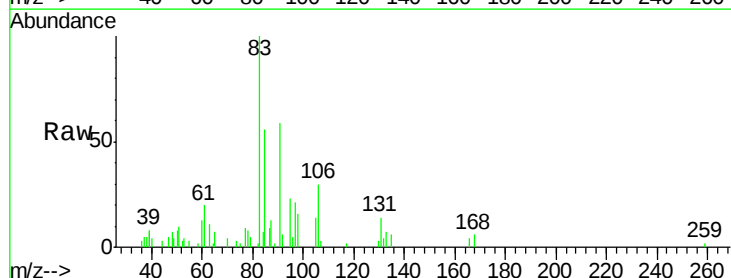
Tgt Ion: 83 Resp: 9570

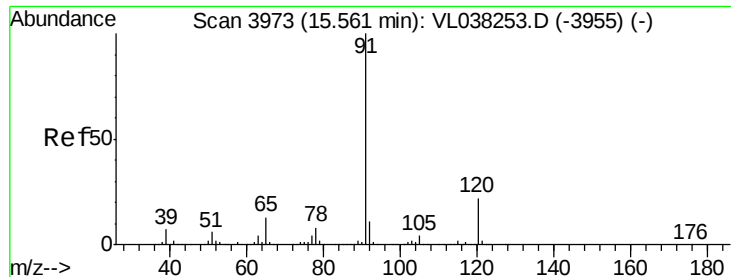
Ion Ratio Lower Upper

83 100

131 20.7 4.5 13.5#

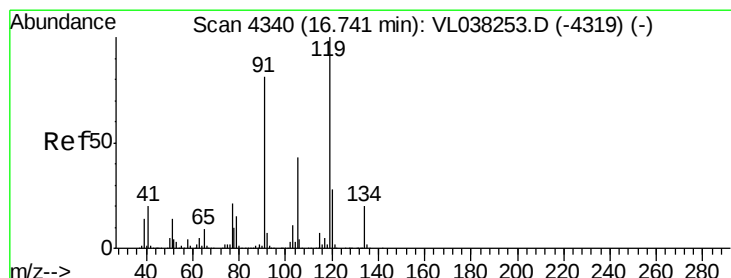
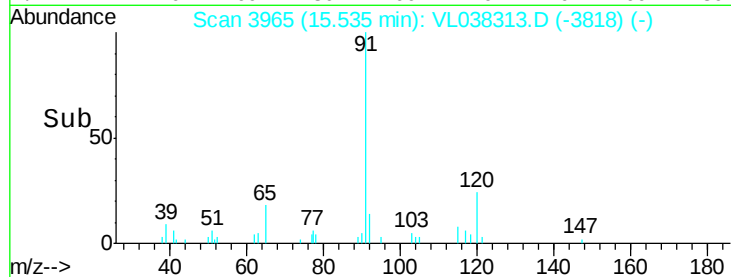
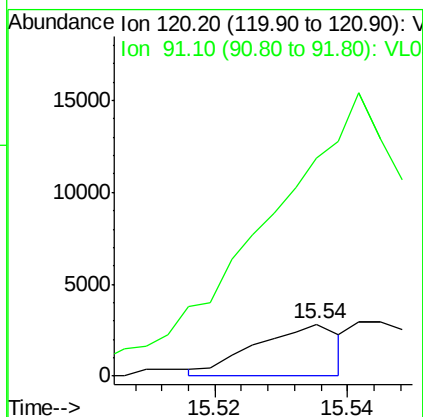
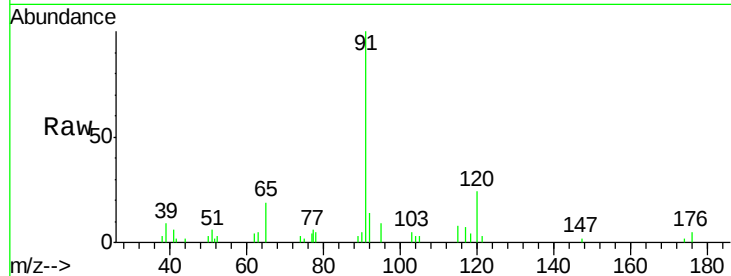
85 137.8 32.8 98.4#





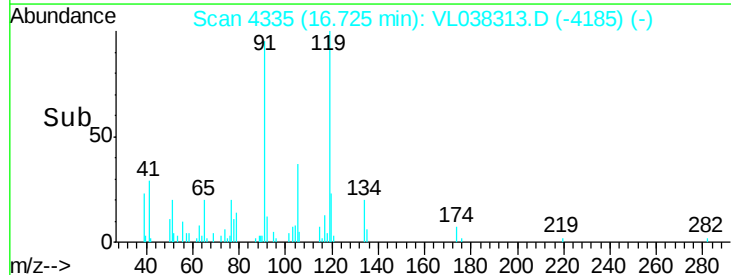
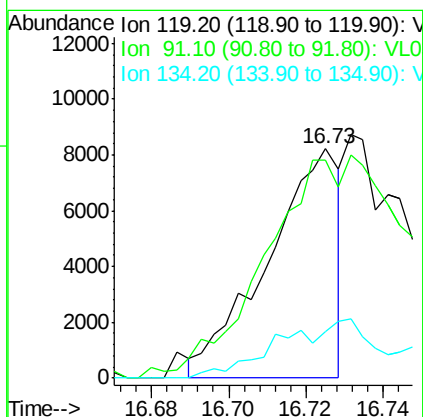
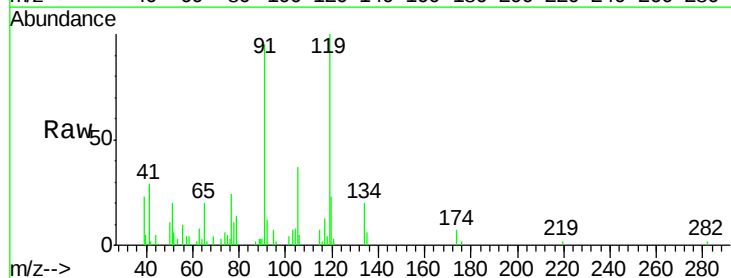
#64
n-propylbenzene
Concen: 0.040 ppbv
RT: 15.54 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
QC012722 CAN 10667
Acq: 28 Jan 2022 8:33

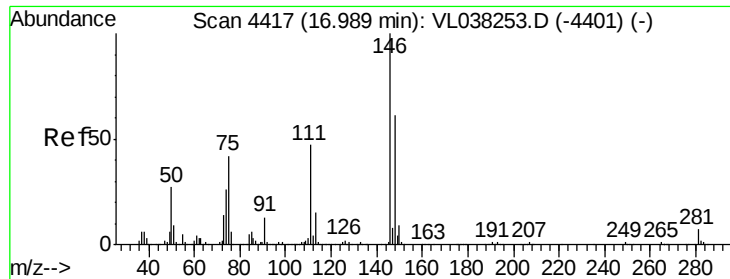
Tgt Ion:120 Resp: 2474
Ion Ratio Lower Upper
120 100
91 0.0 390.8 586.2#



#65
tert-Butylbenzene
Concen: 0.050 ppbv
RT: 16.73 min Scan# 4335
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

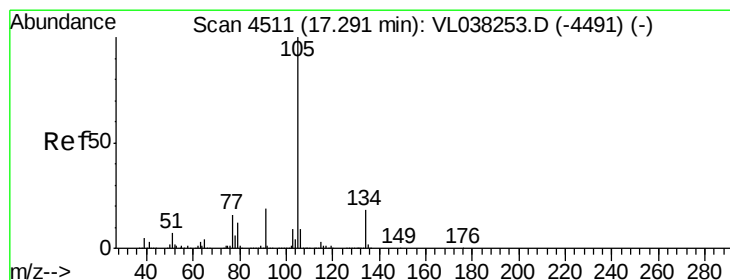
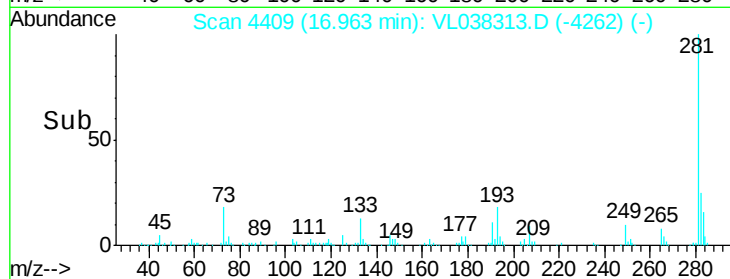
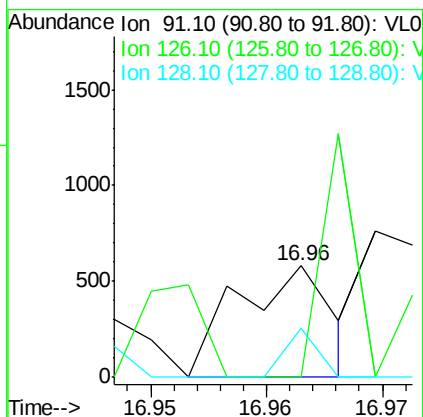
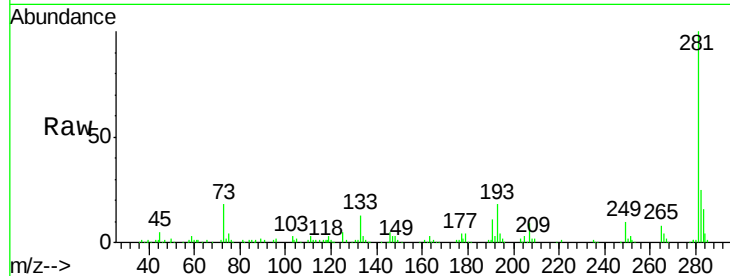
Tgt Ion:119 Resp: 10585
Ion Ratio Lower Upper
119 100
91 0.0 66.6 100.0#
134 0.0 15.8 23.6#





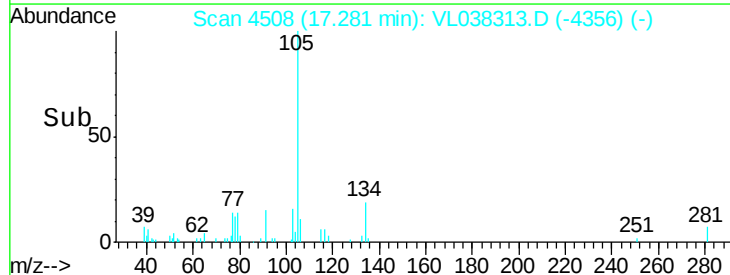
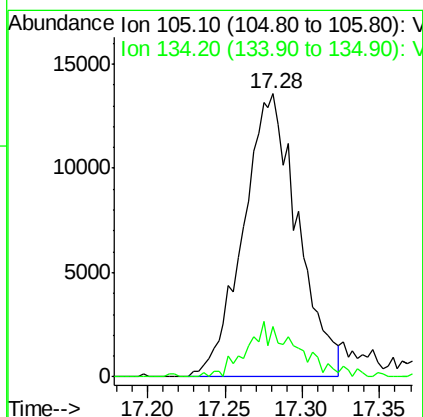
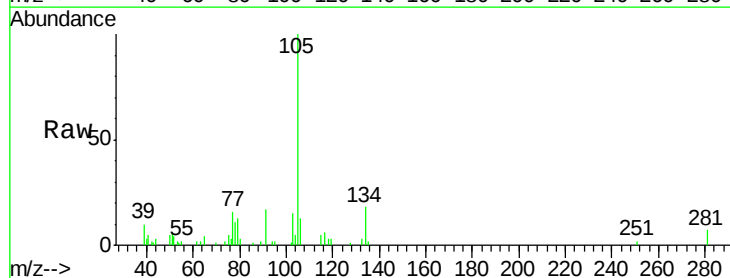
#66
Benzyl Chloride
Concen: 0.034 ppbv
RT: 16.96 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

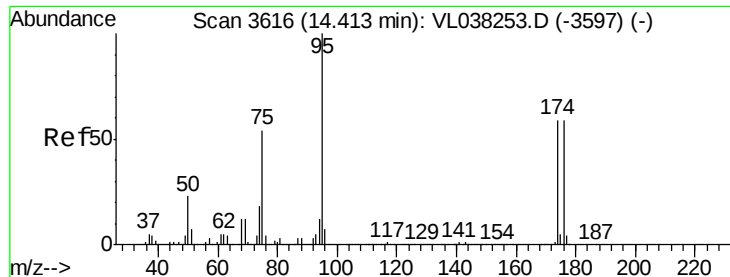
Tgt Ion: 91 Resp: 329
Ion Ratio Lower Upper
91 100
126 144.4 12.6 18.8#
128 24.6 4.3 6.5#



#67
sec-Butylbenzene
Concen: 0.113 ppbv
RT: 17.28 min Scan# 4508
Delta R.T. -0.01 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

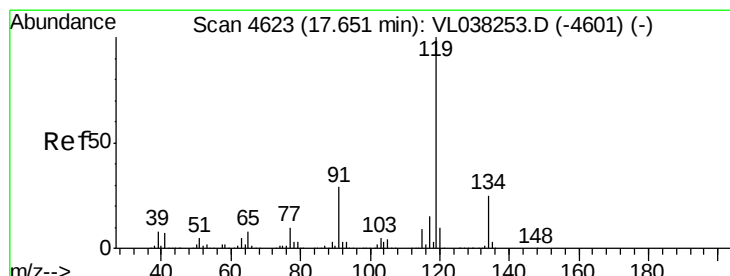
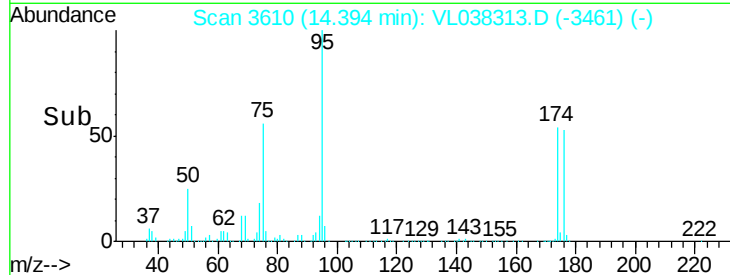
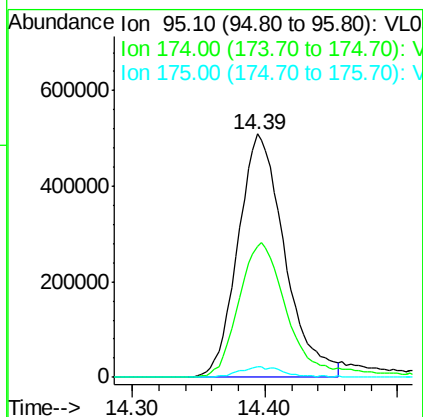
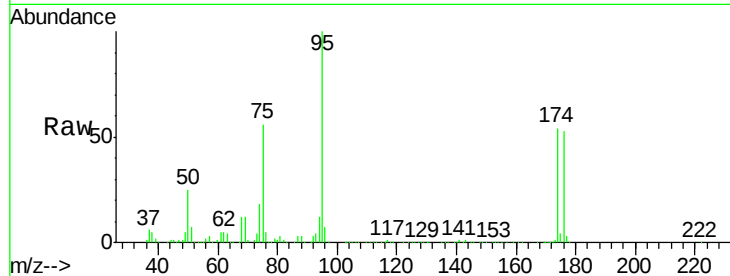
Tgt Ion: 105 Resp: 33319
Ion Ratio Lower Upper
105 100
134 18.1 14.3 21.5





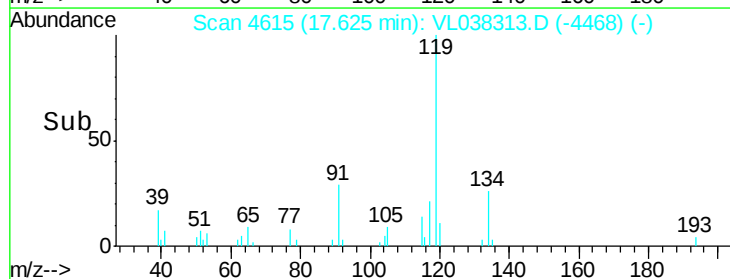
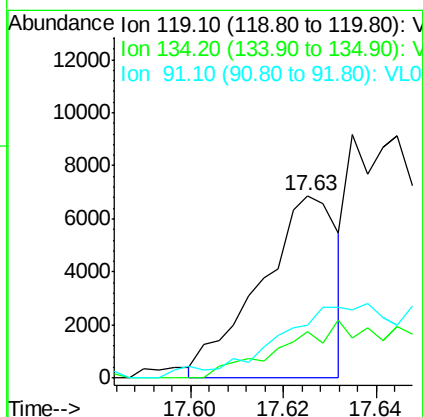
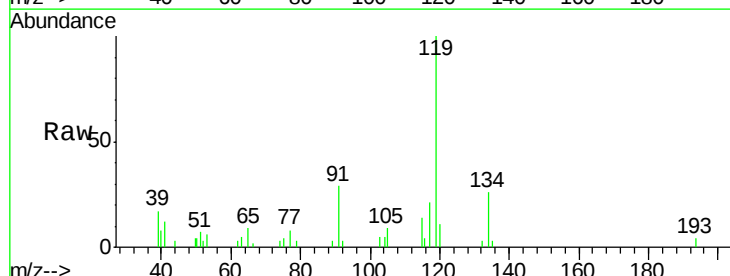
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.909 ppbv
 RT: 14.39
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 OC012722 CAN 10667
 Acq: 28 Jan 2022 8:33

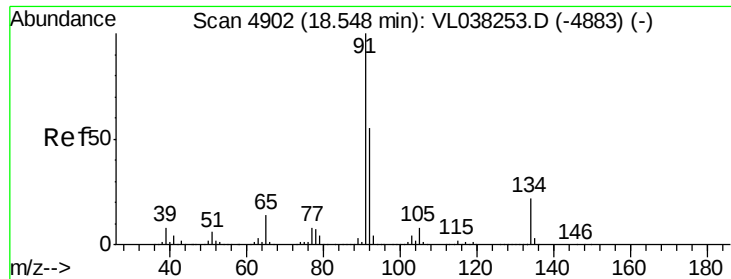
Tgt Ion: 95 Resp: 1242229
 Ion Ratio Lower Upper
 95 100
 174 60.8 48.3 72.5
 175 4.6 3.5 5.3



#69
 p-Isopropyltoluene
 Concen: 0.035 ppbv
 RT: 17.63 min Scan# 4615
 Delta R.T. -0.03 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

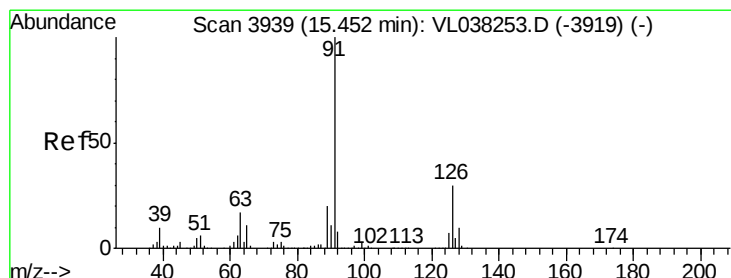
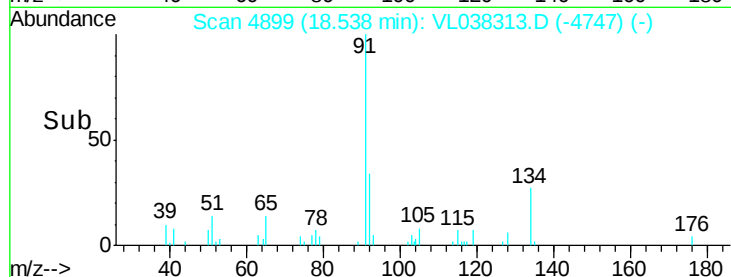
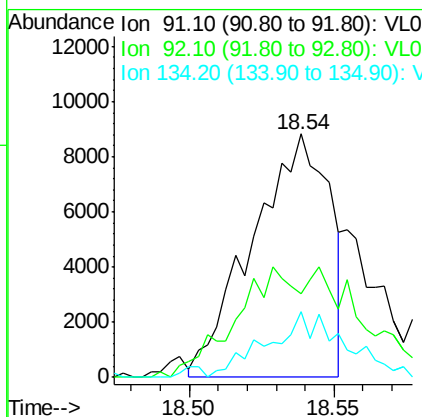
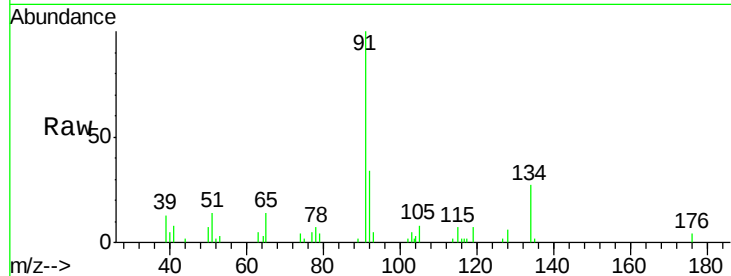
Tgt Ion: 119 Resp: 7910
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.2 30.2#
 91 0.0 23.2 34.8#





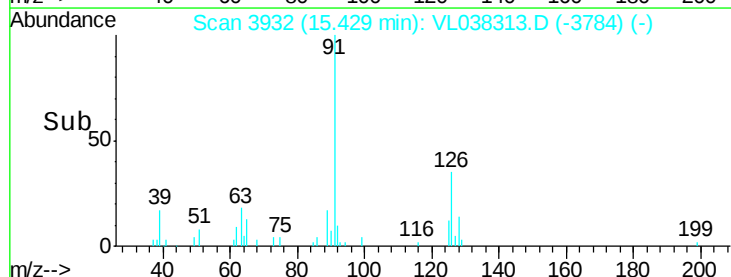
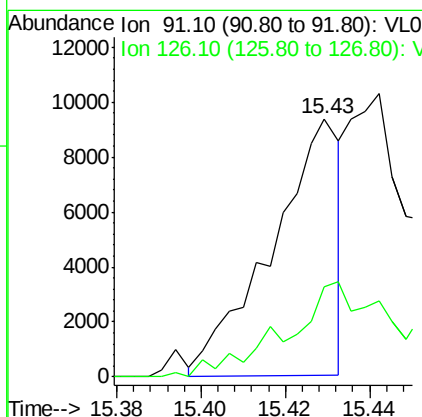
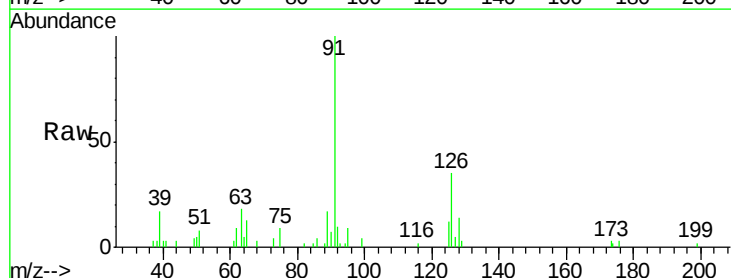
#70
n-Butylbenzene
Concen: 0.074 ppbv
RT: 18.54 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jan 2022 8:33
QC012722 CAN 10667

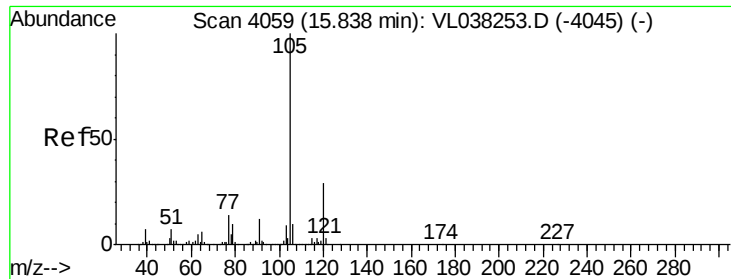
Tgt Ion: 91 Resp: 16288
Ion Ratio Lower Upper
91 100
92 75.6 43.4 65.0#
134 29.5 17.3 25.9#



#71
2-Chlorotoluene
Concen: 0.055 ppbv
RT: 15.43 min Scan# 3932
Delta R.T. -0.02 min
Lab File: VL038313.D
Acq: 28 Jan 2022 8:33

Tgt Ion: 91 Resp: 10501
Ion Ratio Lower Upper
91 100
126 68.6 12.1 48.5#





#72

4-Ethyltoluene

Concen: 0.051 ppbv

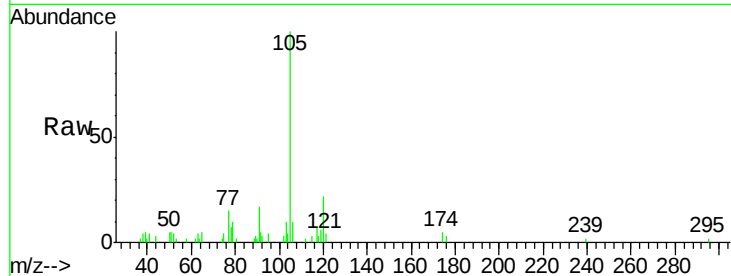
RT: 15.82

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jan 2022 8:33

Tgt Ion:	105	Resp:	10276
Ion	Ratio	Lower	Upper
105	100		
120	60.8	23.8	35.8#
91	39.1	10.2	15.4#
77	0.0	11.7	17.5#

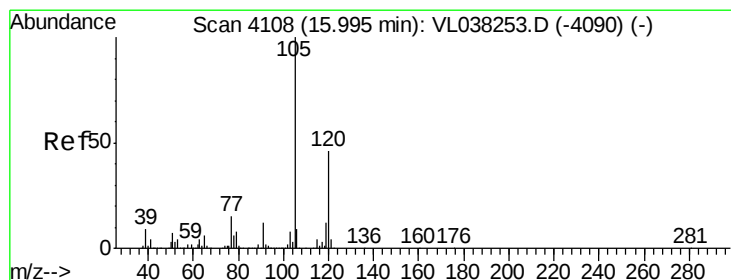
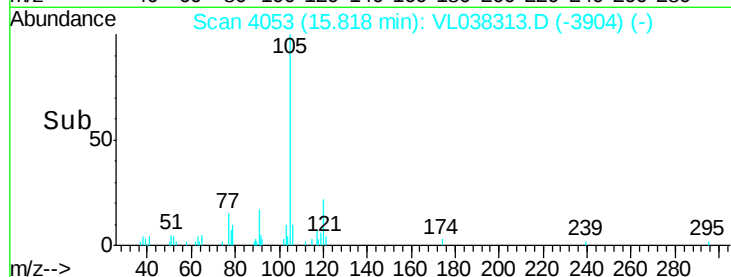
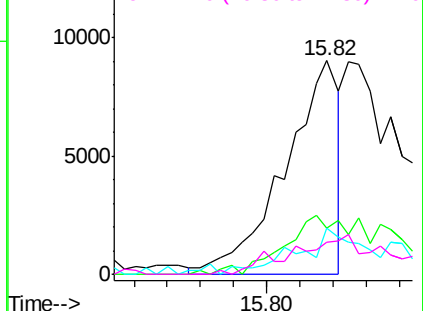


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.030 ppbv

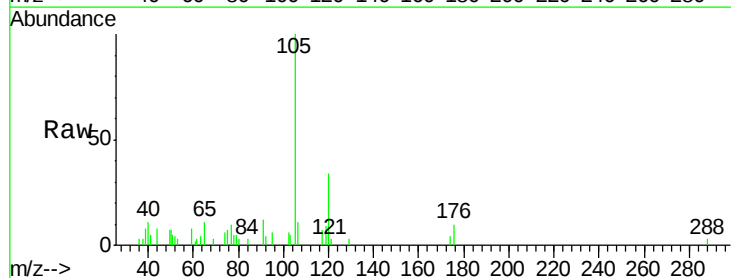
RT: 15.96 min Scan# 4098

Delta R.T. -0.03 min

Lab File: VL038313.D

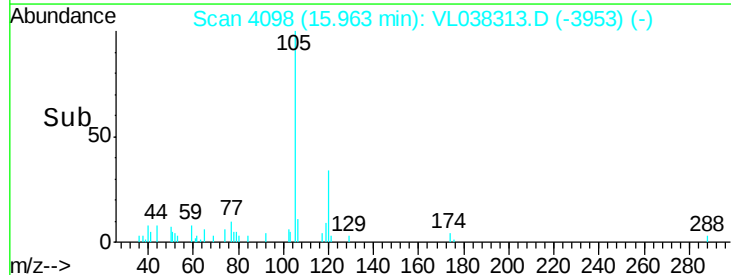
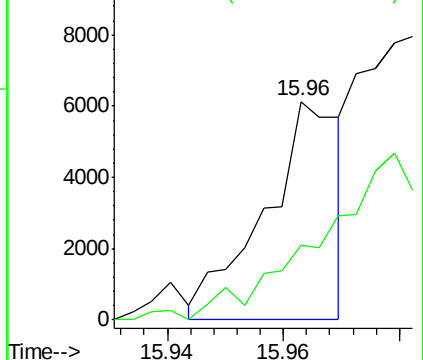
Acq: 28 Jan 2022 8:33

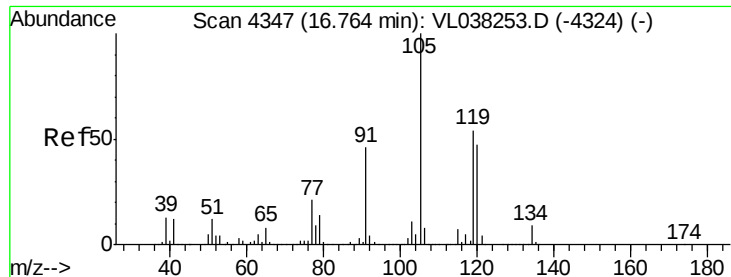
Tgt Ion:	105	Resp:	5515
Ion	Ratio	Lower	Upper
105	100		
120	39.5	36.6	55.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.051 ppbv

RT: 16.74

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jan 2022 8:33

Tgt Ion:105 Resp: 9729

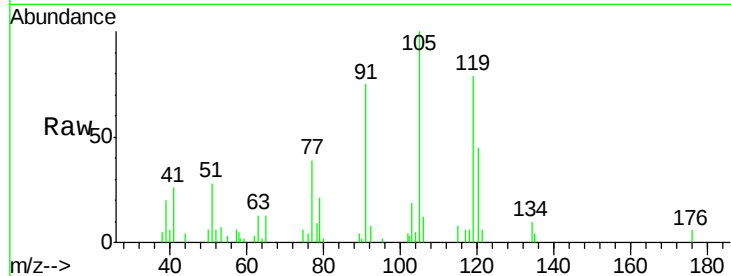
Ion Ratio Lower Upper

105 100

120 40.4 37.2 55.8

91 22.4 36.6 55.0#

77 26.9 16.9 25.3#



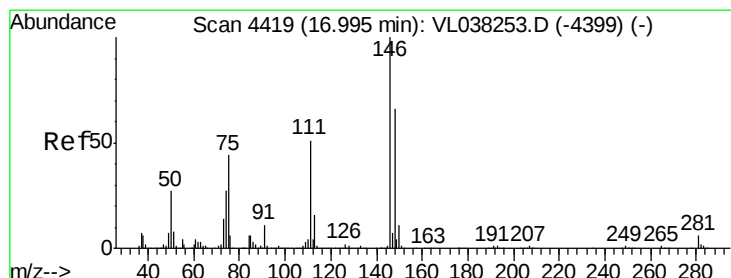
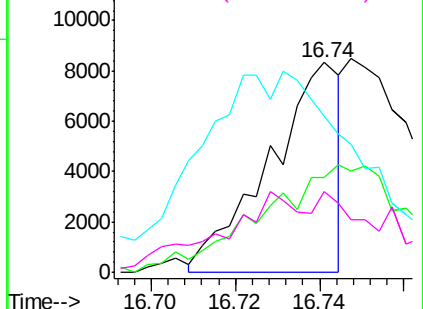
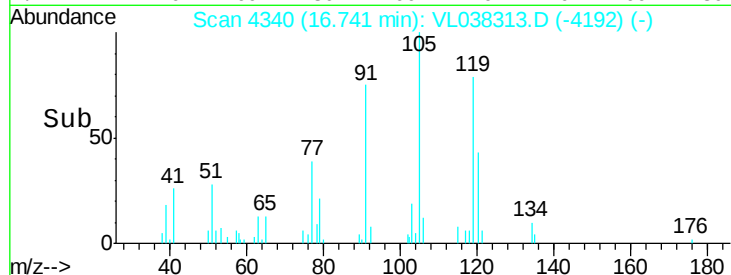
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO



#75

1,3-Dichlorobenzene

Concen: 0.056 ppbv

RT: 16.97 min Scan# 4412

Delta R.T. -0.02 min

Lab File: VL038313.D

Acq: 28 Jan 2022 8:33

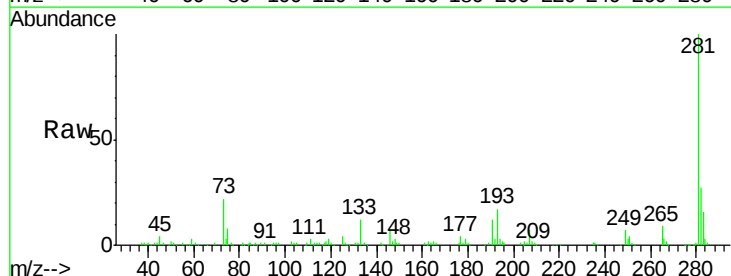
Tgt Ion:146 Resp: 5779

Ion Ratio Lower Upper

146 100

111 161.8 24.1 72.4#

148 0.0 32.1 96.5#

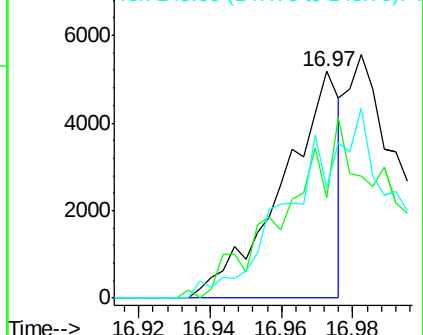
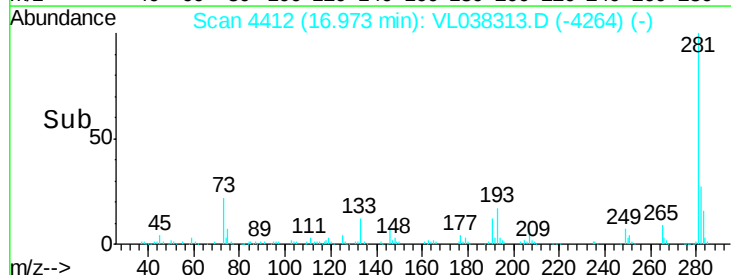


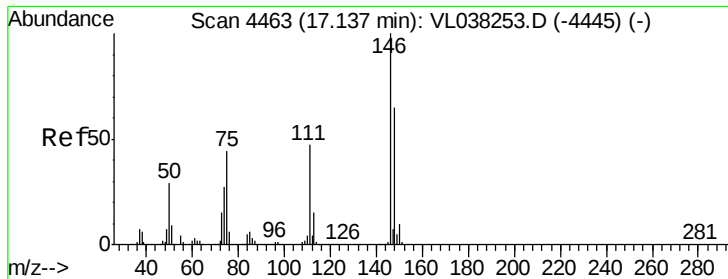
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

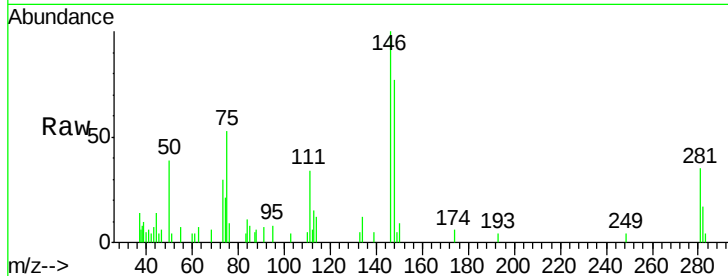
Ion 148.00 (147.70 to 148.70): V



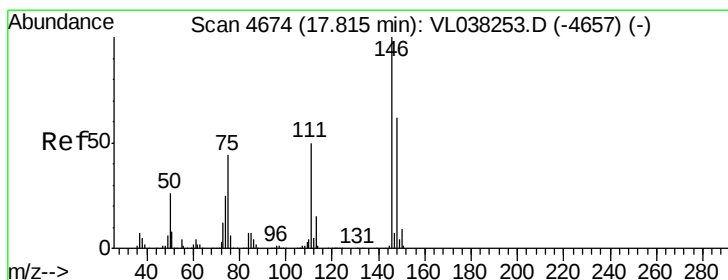
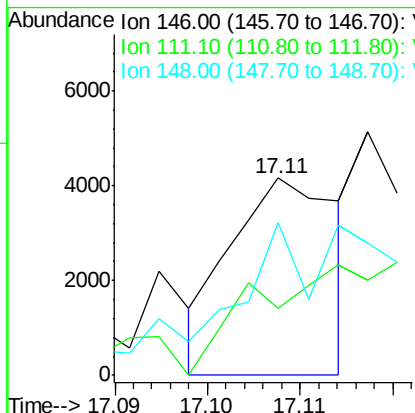
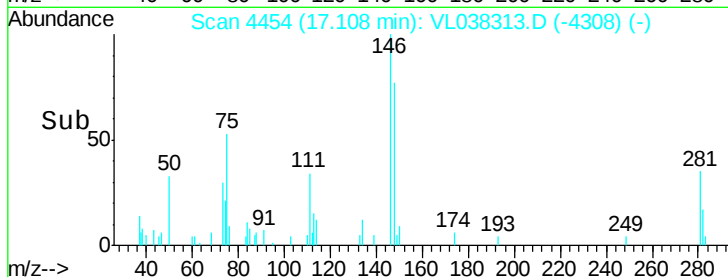


#76
 1,4-Dichlorobenzene
 Concen: 0.034 ppbv
 RT: 17.11 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 QC012722 CAN 10667
 Acq: 28 Jan 2022 8:33

Tgt Ion:146 Resp: 3332
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.2 69.6#
 148 249.9 32.4 97.0#

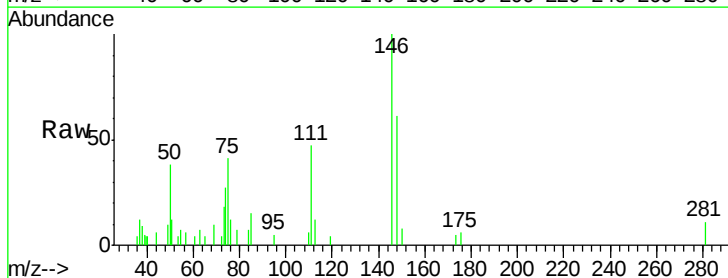


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V



#77
 1,2-Dichlorobenzene
 Concen: 0.041 ppbv
 RT: 17.80 min Scan# 4668
 Delta R.T. -0.02 min
 Lab File: VL038313.D
 Acq: 28 Jan 2022 8:33

Tgt Ion:146 Resp: 3942
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.2 75.6#
 148 0.0 32.6 97.8#



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

