

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039172.D
 Acq On : 4 Jun 2022 10:33
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VIBLK

Quant Time: Jun 06 00:42:10 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1250339	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3384881	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2932658	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2305861	9.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	17233	0.078 ppbv	94
3) Chlorodifluoromethane	3.00	51	17067	0.107 ppbv	98
4) Chloromethane	3.15	50	4905	0.060 ppbv #	88
5) Vinyl Chloride	3.27	62	5178	0.068 ppbv	99
6) Bromomethane	3.47	94	1377	0.037 ppbv #	43
7) Chloroethane	3.56	64	812	0.031 ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	13068	0.065 ppbv #	24
9) Propene	3.02	41	10559	0.152 ppbv #	41
10) Heptane	8.12	43	9835	0.061 ppbv #	35
12) 1,1,2-Trichlorotrifluoroet	4.49	101	10820	0.082 ppbv #	69
13) Ethanol	3.61	45	228	0.060 ppbv #	100
14) Bromoethene	3.75	108	4255	0.072 ppbv #	52
15) Acetone	3.87	43	23537	0.181 ppbv #	77
16) 1,3-Butadiene	3.34	39	3575	0.051 ppbv #	1
18) 1,1-Dichloroethene	4.29	96	3926	0.067 ppbv #	83
20) Methylene Chloride	4.35	84	3765	0.069 ppbv #	37
21) Allyl Chloride	4.41	41	4483	0.051 ppbv #	20
24) 1,1-Dichloroethane	5.01	63	9943	0.067 ppbv #	94
25) Ethyl Acetate	5.69	43	27336	0.093 ppbv #	92
26) Hexane	5.69	57	8636	0.067 ppbv #	1
27) Carbon Disulfide	4.56	76	7498	0.056 ppbv #	1
29) Chloroform	5.75	83	22736	0.105 ppbv	87
31) cis-1,2-Dichloroethene	5.55	61	4989	0.038 ppbv #	88
35) Carbon Tetrachloride	7.02	117	13694	0.055 ppbv #	79
36) Benzene	6.89	78	27255	0.099 ppbv #	92
38) Trichloroethene	7.83	130	4412	0.035 ppbv #	15
39) 1,2-Dichloropropane	7.18	63	827834	7.574 ppbv #	24
41) Tetrahydrofuran	6.08	42	4043	0.037 ppbv #	14
42) Bromodichloromethane	7.79	83	11025	0.044 ppbv	97
43) Methyl Methacrylate	8.02	69	6732	0.063 ppbv #	64
44) 2,2,4-Trimethylpentane	7.87	57	26902	0.056 ppbv #	46
46) cis-1,3-Dichloropropene	8.70	75	5629	0.038 ppbv #	78
47) 1,1,2-Trichloroethane	9.47	97	4047	0.035 ppbv #	91
52) Tetrachloroethene	11.22	164	4410	0.041 ppbv #	47
54) 1,2-Dibromoethane	10.61	107	6248	0.041 ppbv	88
57) Chlorobenzene	12.14	112	8776	0.040 ppbv #	42
59) m/p-Xylene	12.99	91	23225	0.065 ppbv #	7
60) o-Xylene	13.68	91	21445	0.064 ppbv	86
62) Isopropylbenzene	14.66	105	40866	0.082 ppbv #	89
65) tert-Butylbenzene	16.74	119	18815	0.041 ppbv #	17
67) sec-Butylbenzene	17.28	105	20998	0.034 ppbv #	59

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ClientSampleId :
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration

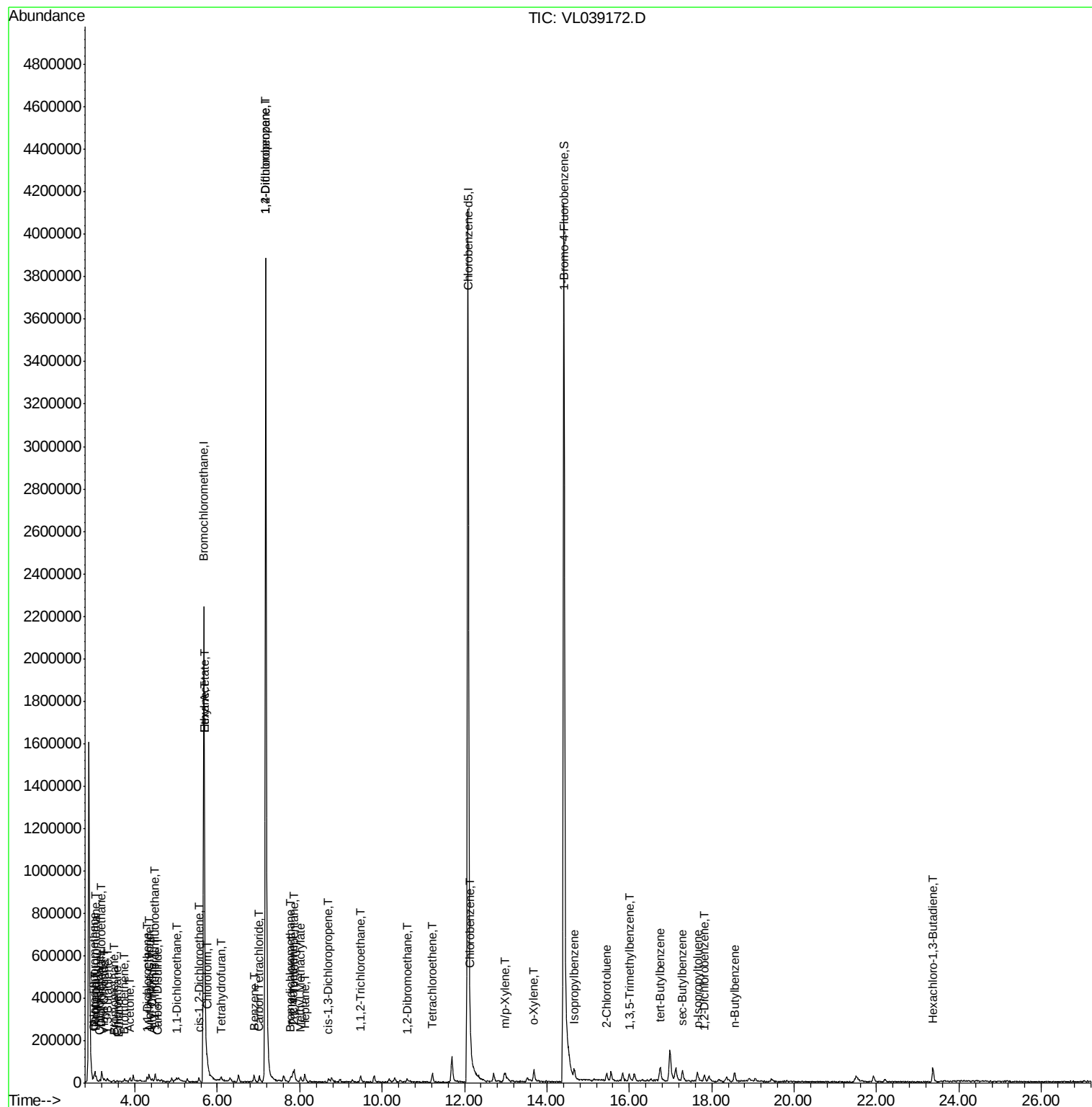
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.65	119	23116	0.044	ppbv #	61
70) n-Butylbenzene	18.55	91	17955	0.033	ppbv #	39
71) 2-Chlorotoluene	15.45	91	13878	0.037	ppbv #	44
73) 1,3,5-Trimethylbenzene	16.00	105	13240	0.037	ppbv #	75
77) 1,2-Dichlorobenzene	17.81	146	7188	0.032	ppbv #	22
78) Hexachloro-1,3-Butadiene	23.36	225	7226	0.035	ppbv #	1

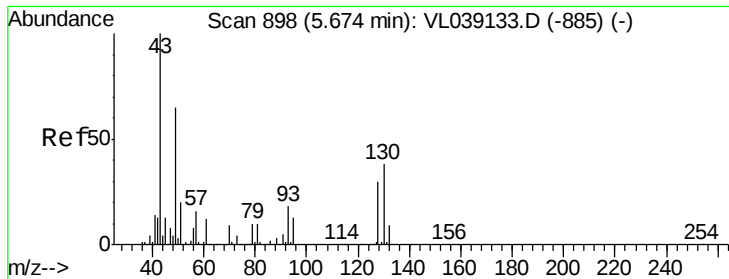
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

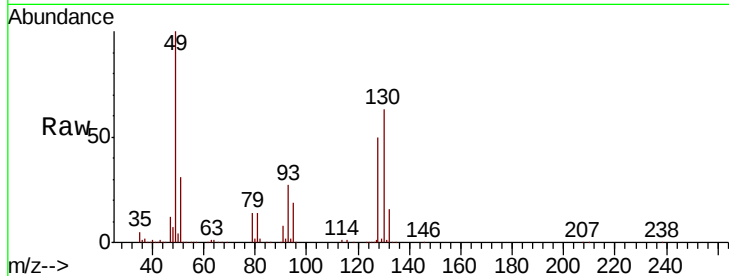
Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 4 Jun 2022 10:33

Tot Ion: 49 Resp: 1250339

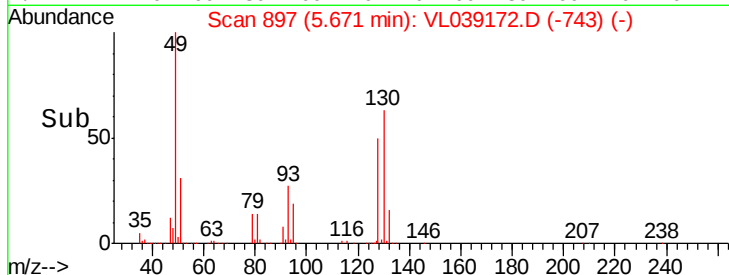
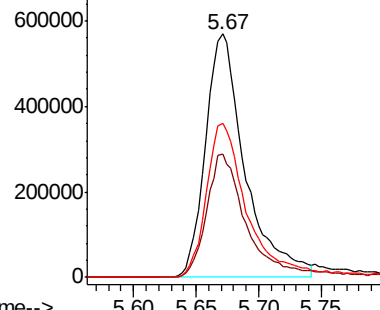
Ion	Ratio	Lower	Upper
49	100		
128	52.6	24.7	74.1
130	69.0	31.4	94.0



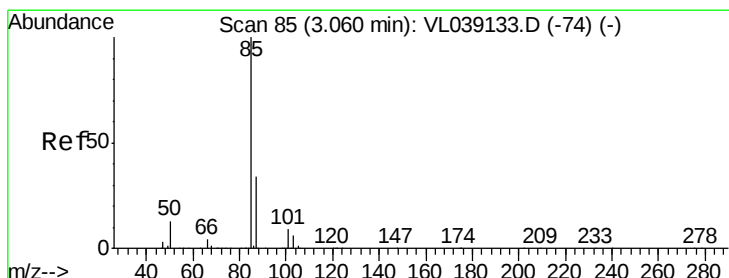
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 0.078 ppbv

RT: 3.06 min Scan# 84

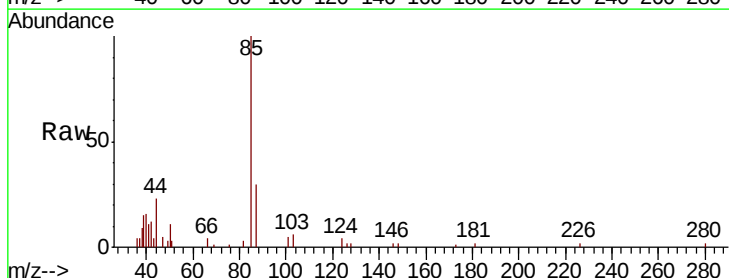
Delta R.T. -0.00 min

Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

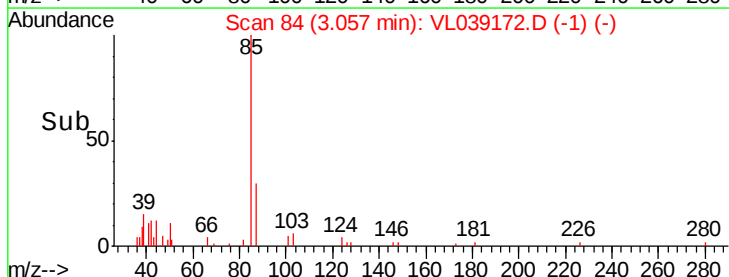
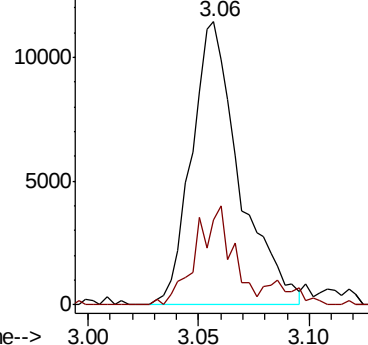
Tgt Ion: 85 Resp: 17233

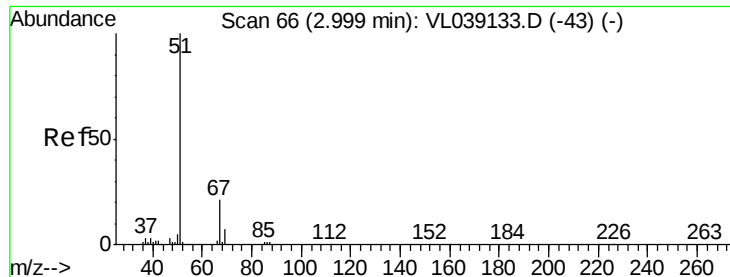
Ion	Ratio	Lower	Upper
85	100		
87	30.1	26.9	40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

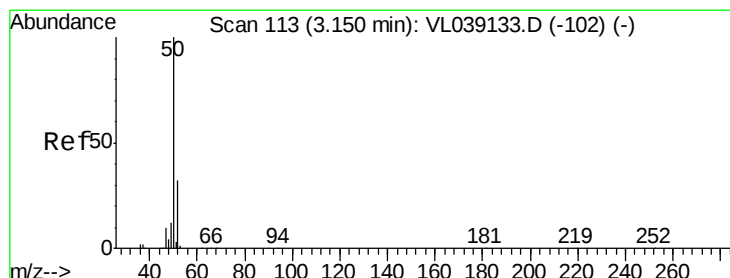
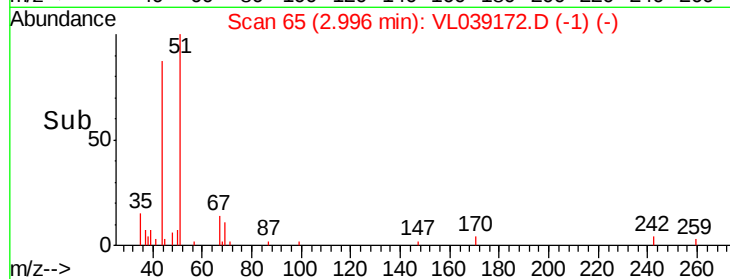
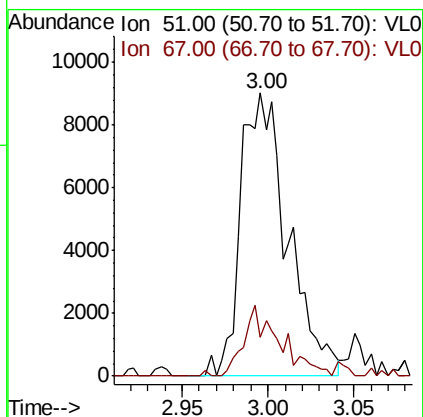
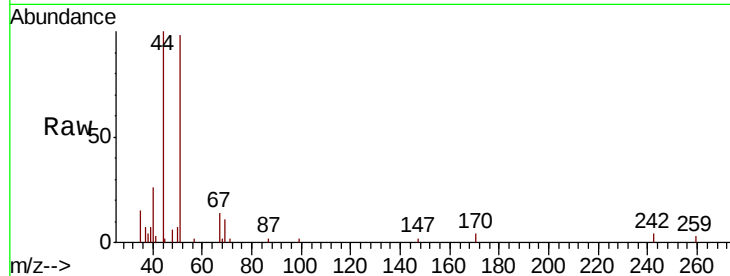
Ion 87.00 (86.70 to 87.70): VL0





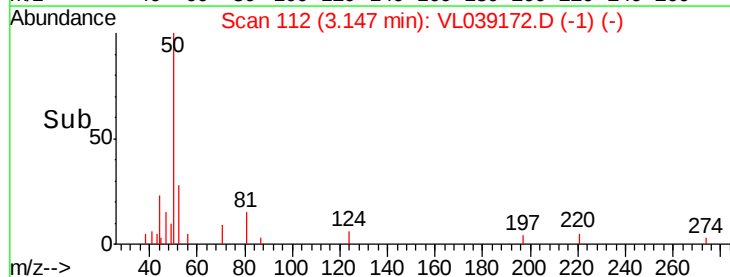
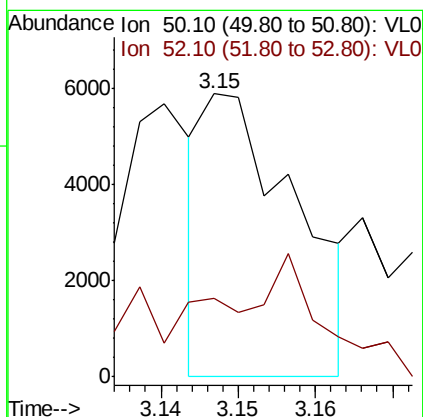
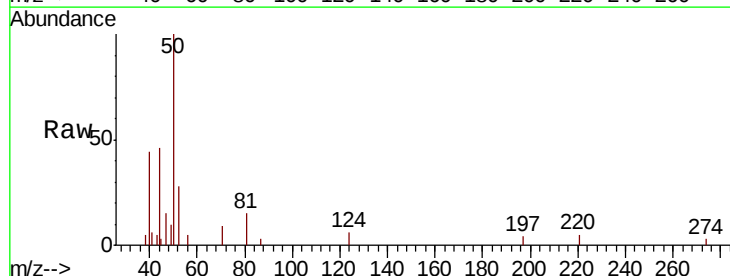
#3
 Chlorodifluoromethane
 Concen: 0.107 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VIBLK
 Acq: 4 Jun 2022 10:33

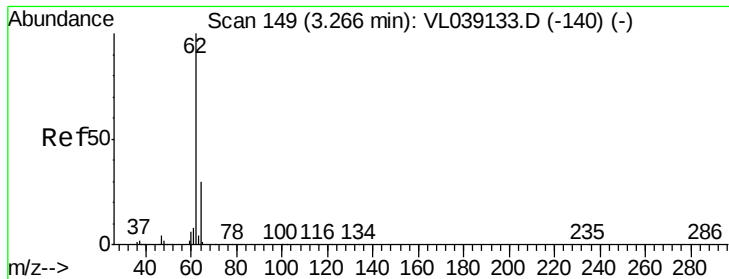
Tot Ion: 51 Resp: 17067
 Ion Ratio Lower Upper
 51 100
 67 21.2 16.2 24.4



#4
 Chloromethane
 Concen: 0.060 ppbv
 RT: 3.15 min Scan# 112
 Delta R.T. -0.00 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

Tgt Ion: 50 Resp: 4905
 Ion Ratio Lower Upper
 50 100
 52 25.8 25.9 38.9#





#5

Vinyl Chloride

Concen: 0.068 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

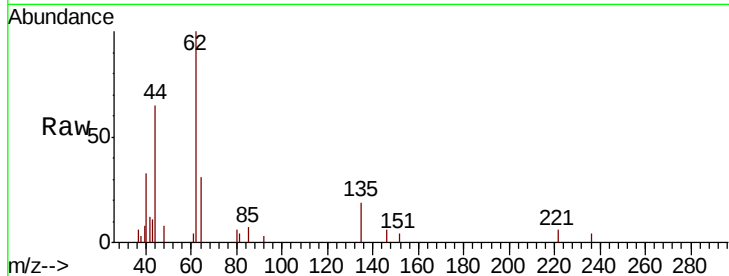
Acq: 4 Jun 2022 10:33

Tot Ion: 62 Resp: 5178

Ion Ratio Lower Upper

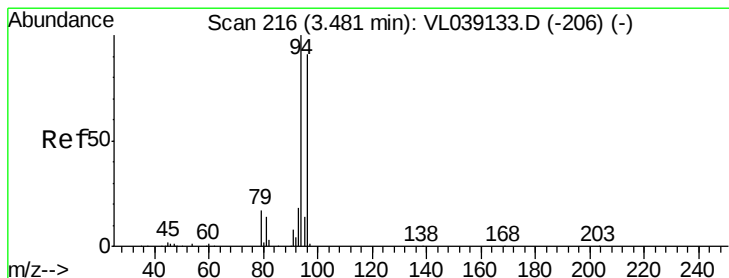
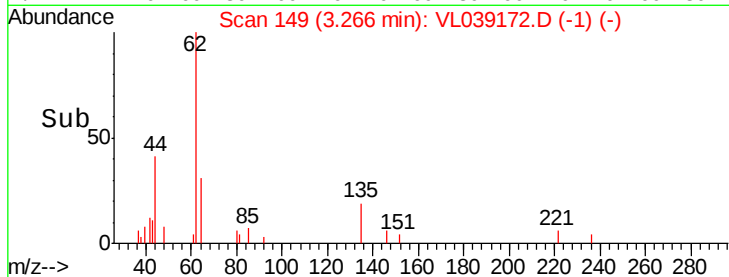
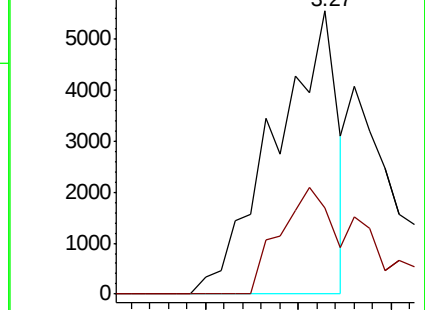
62 100

64 30.5 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.037 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL039172.D

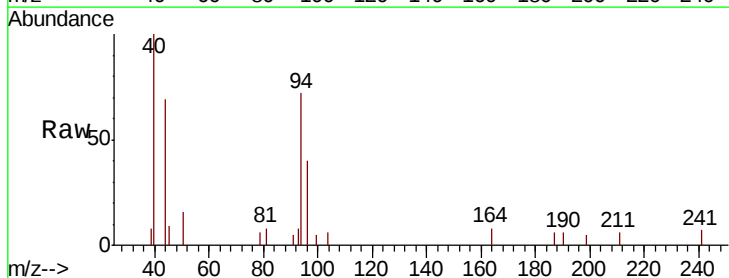
Acq: 4 Jun 2022 10:33

Tgt Ion: 94 Resp: 1377

Ion Ratio Lower Upper

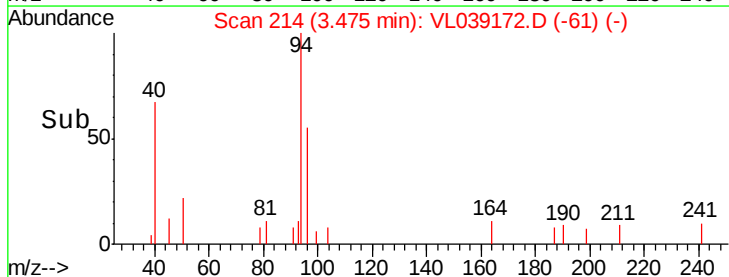
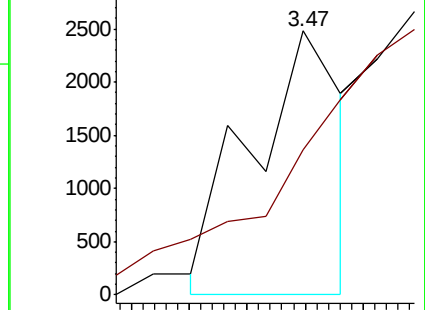
94 100

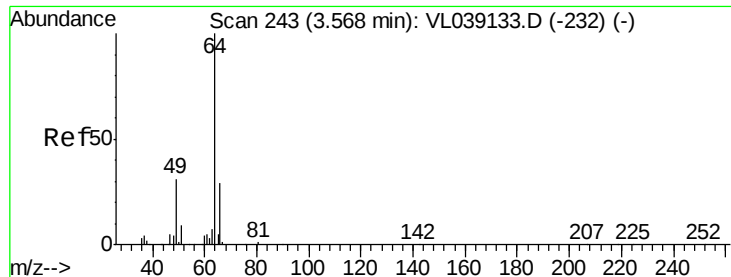
96 36.9 73.0 109.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.031 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

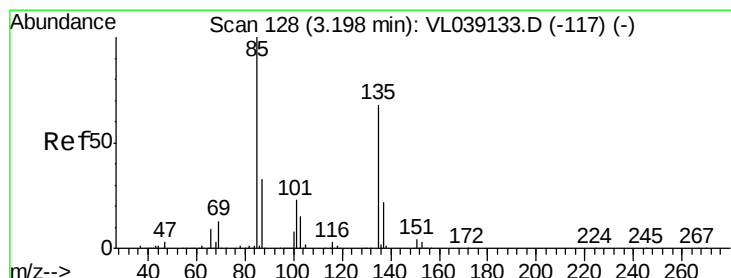
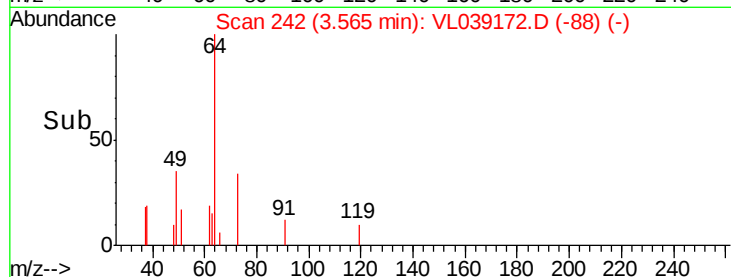
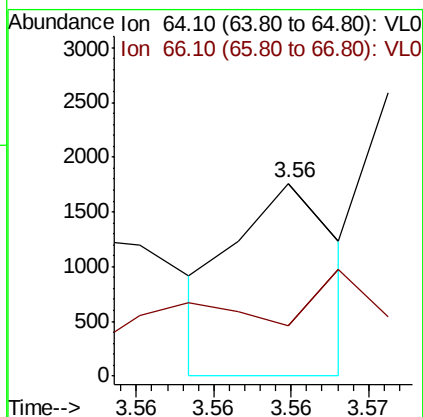
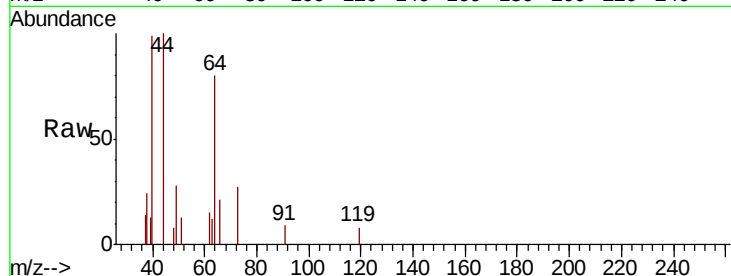
Acq: 4 Jun 2022 10:33

Tot Ion: 64 Resp: 812

Ion Ratio Lower Upper

64 100

66 26.3 23.6 35.4



#8

Dichlorotetrafluoroethane

Concen: 0.065 ppbv

RT: 3.19 min Scan# 126

Delta R.T. -0.01 min

Lab File: VL039172.D

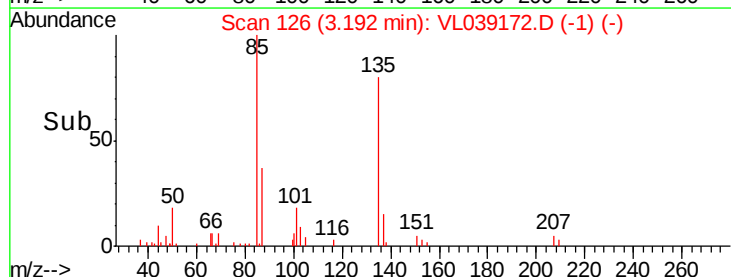
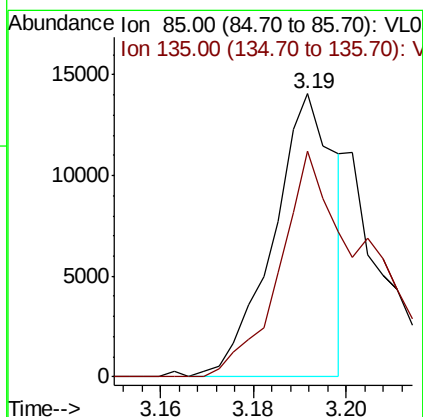
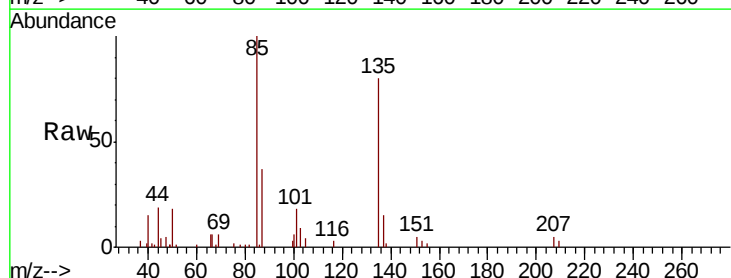
Acq: 4 Jun 2022 10:33

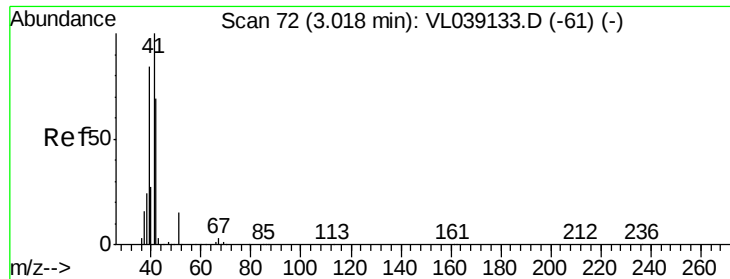
Tgt Ion: 85 Resp: 13068

Ion Ratio Lower Upper

85 100

135 130.1 55.0 82.4#





#9

Propene

Concen: 0.152 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

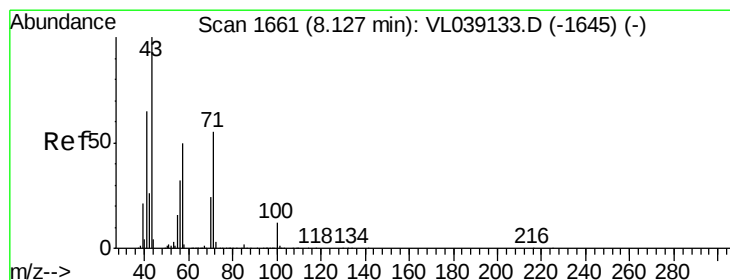
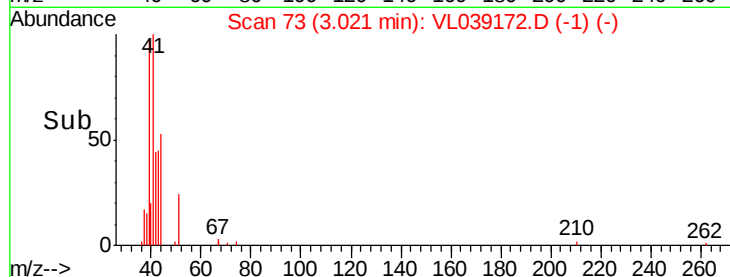
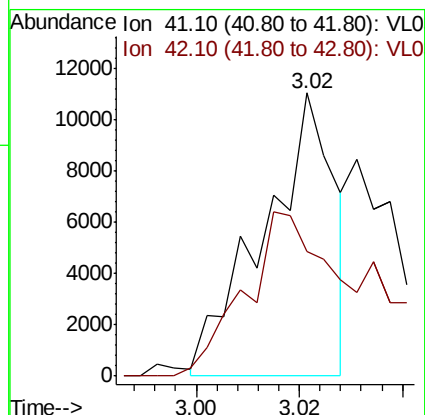
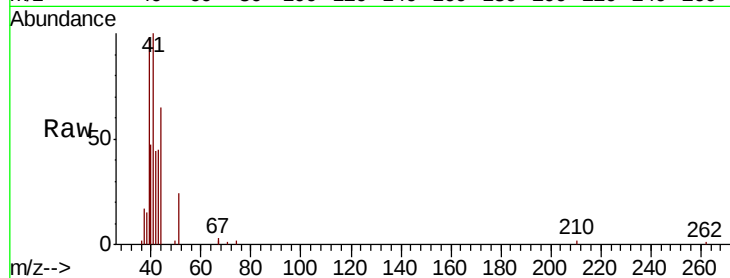
Acq: 4 Jun 2022 10:33

Tot Ion: 41 Resp: 10559

Ion Ratio Lower Upper

41 100

42 117.2 55.4 83.2#



#10

Heptane

Concen: 0.061 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL039172.D

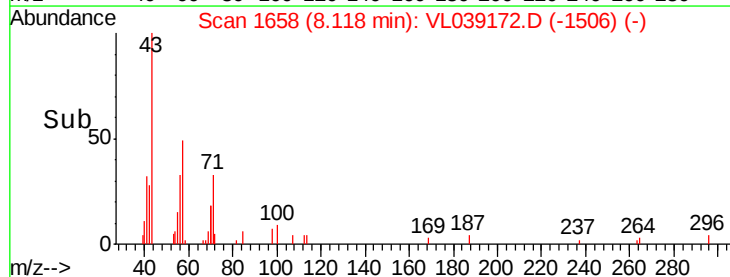
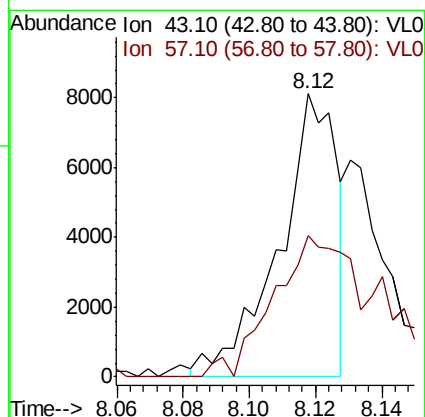
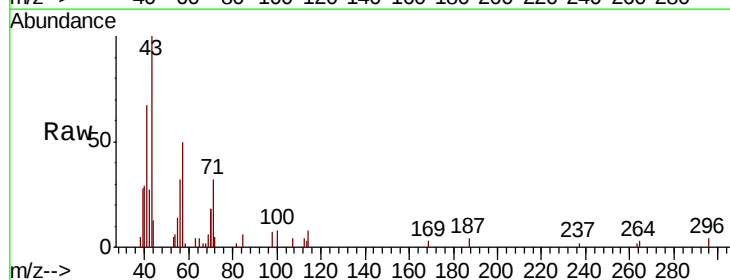
Acq: 4 Jun 2022 10:33

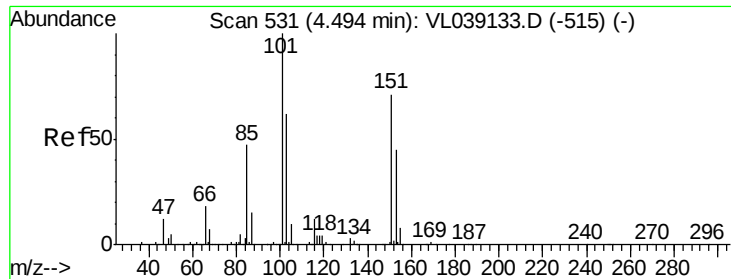
Tgt Ion: 43 Resp: 9835

Ion Ratio Lower Upper

43 100

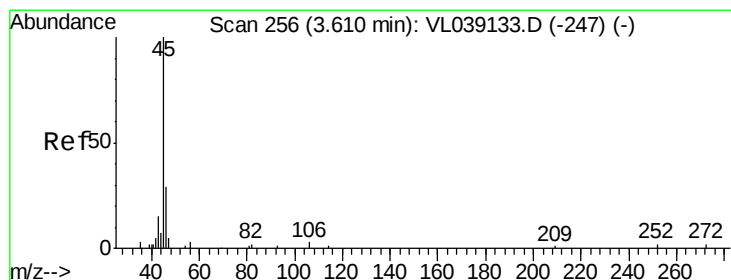
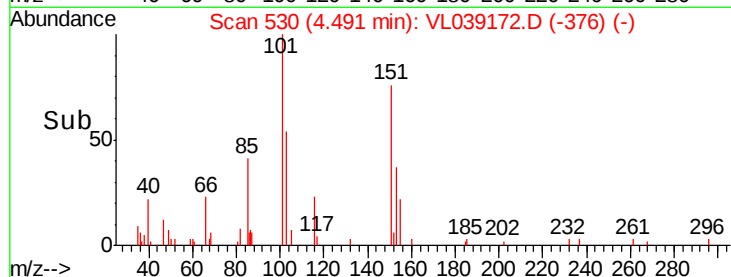
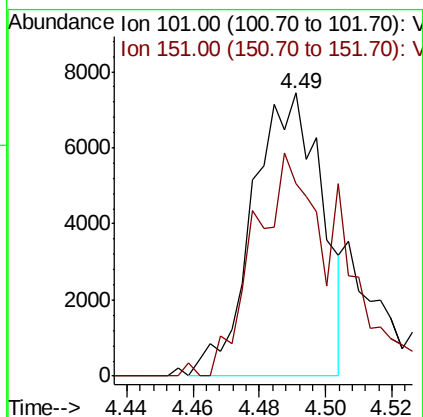
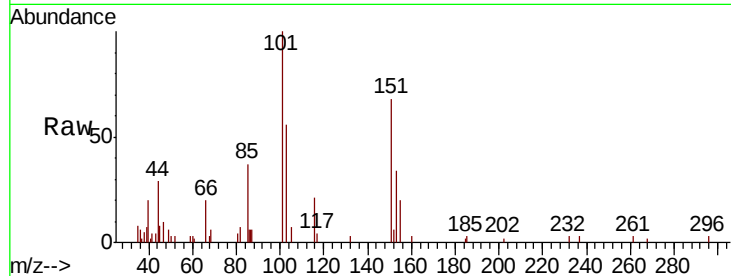
57 97.5 41.4 62.2#





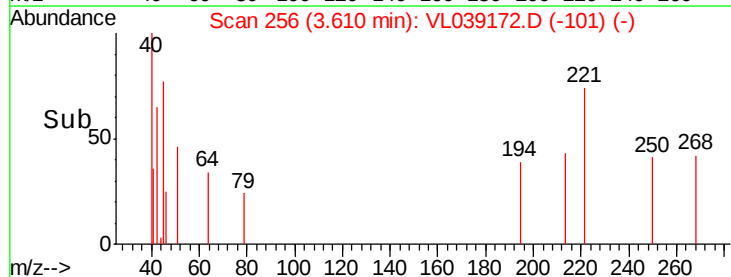
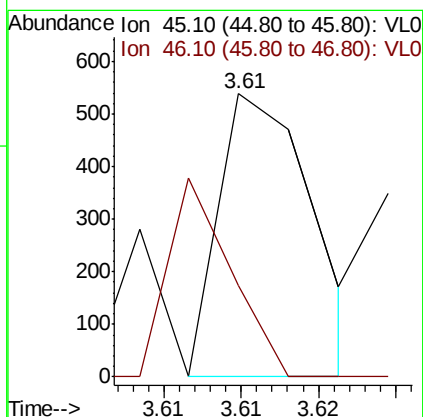
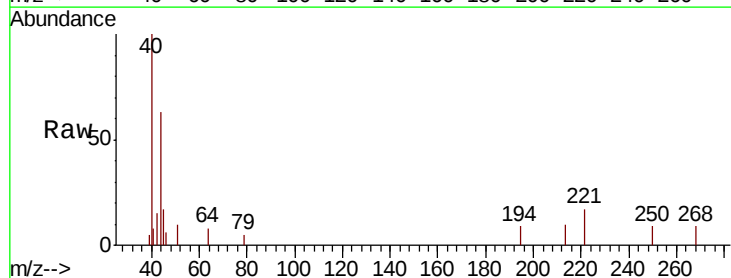
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.082 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 10:33

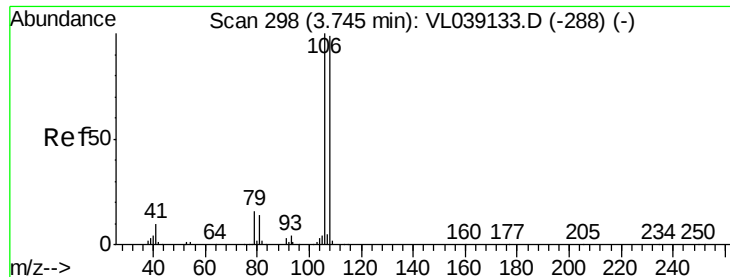
Tot Ion: 101 Resp: 10820
 Ion Ratio Lower Upper
 101 100
 151 100.5 59.4 89.0#



#13
 Ethanol
 Concen: 0.060 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. -0.00 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

Tgt Ion: 45 Resp: 228
 Ion Ratio Lower Upper
 45 100
 46 0.0 0.0 0.0





#14

Bromoethene

Concen: 0.072 ppbv

RT: 3.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

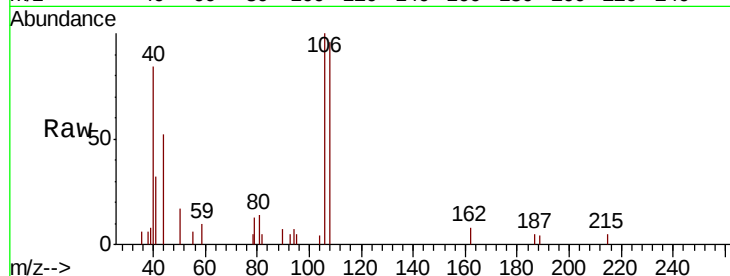
Tot Ion:108 Resp: 4255

Ion Ratio Lower Upper

108 100

106 166.3 88.4 132.6#

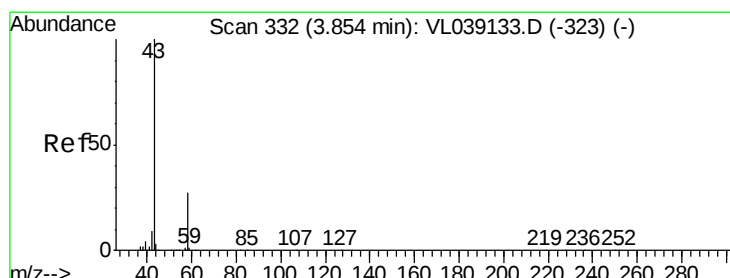
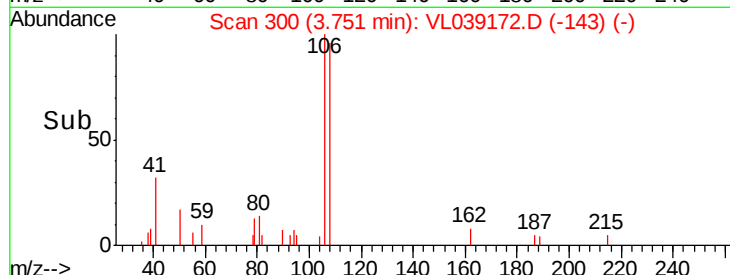
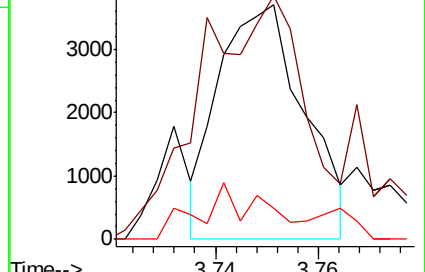
79 24.8 13.4 20.2#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO



#15

Acetone

Concen: 0.181 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL039172.D

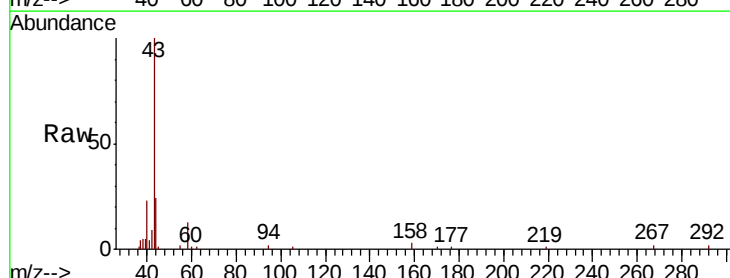
Acq: 4 Jun 2022 10:33

Tgt Ion: 43 Resp: 23537

Ion Ratio Lower Upper

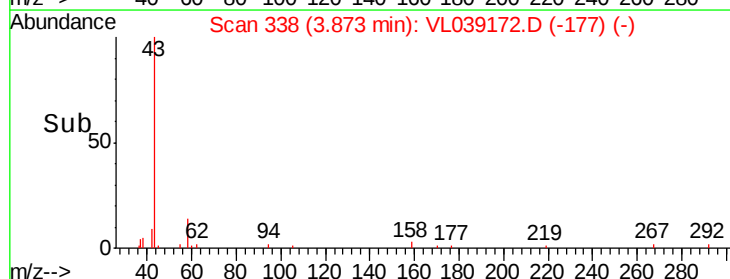
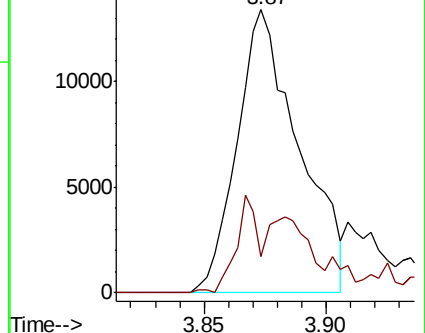
43 100

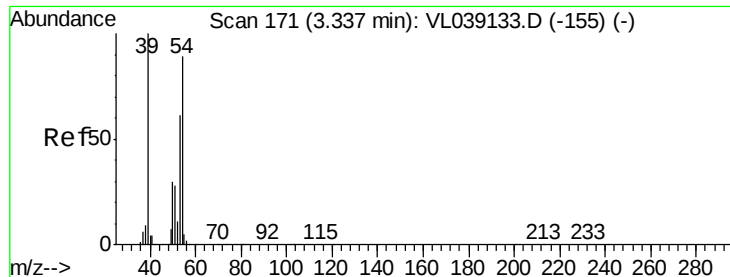
58 40.3 22.5 33.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

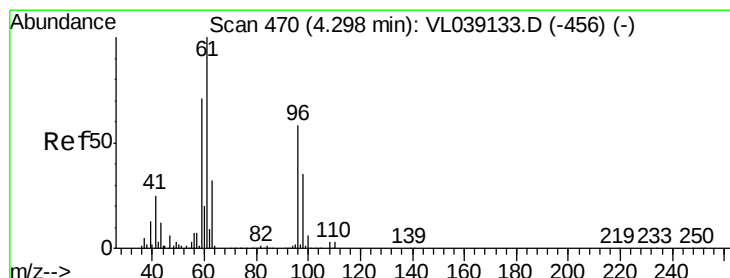
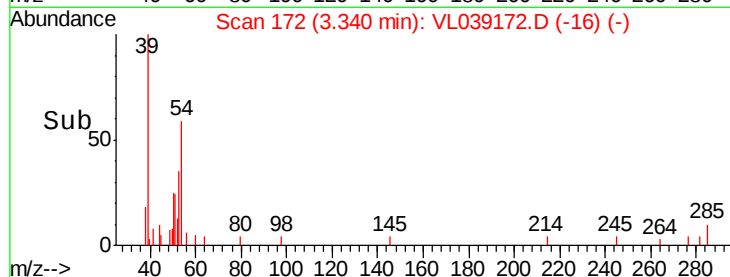
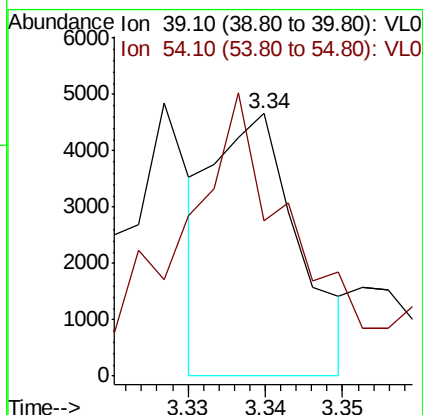
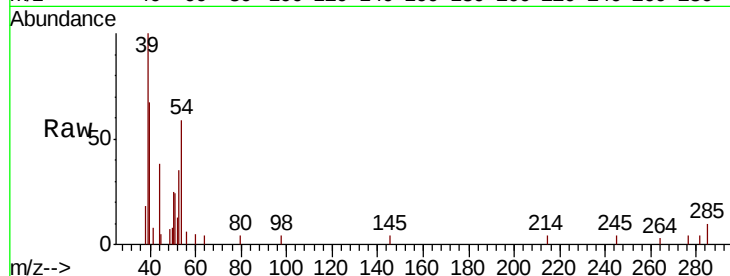
Ion 58.10 (57.80 to 58.80): VL0





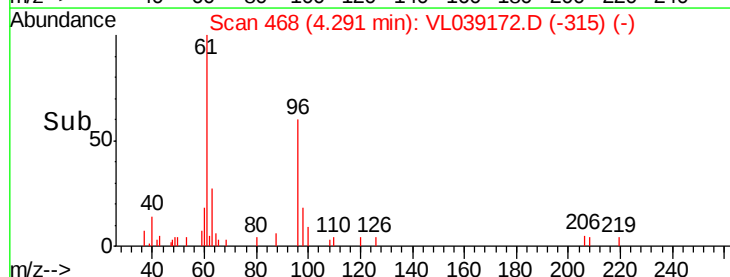
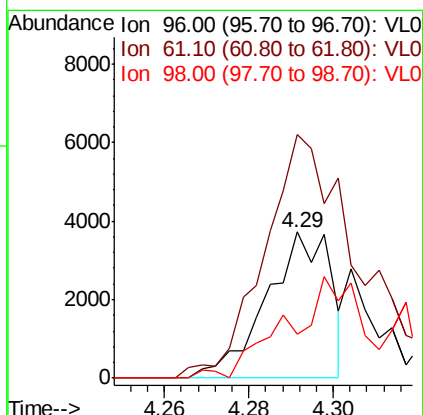
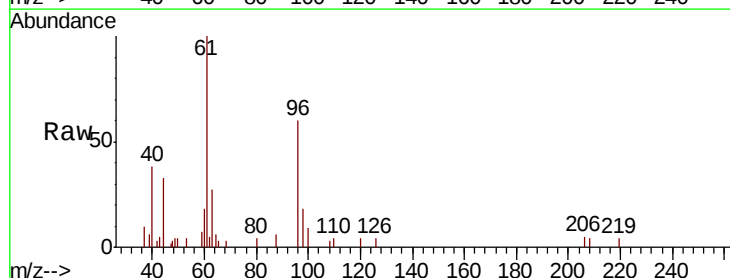
#16
 1,3-Butadiene
 Concen: 0.051 ppbv
 RT: 3.34 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 10:33

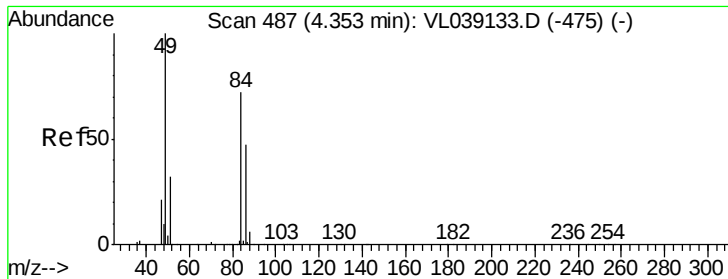
Tot Ion: 39 Resp: 3575
 Ion Ratio Lower Upper
 39 100
 54 177.1 65.8 98.6#



#18
 1,1-Dichloroethene
 Concen: 0.067 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

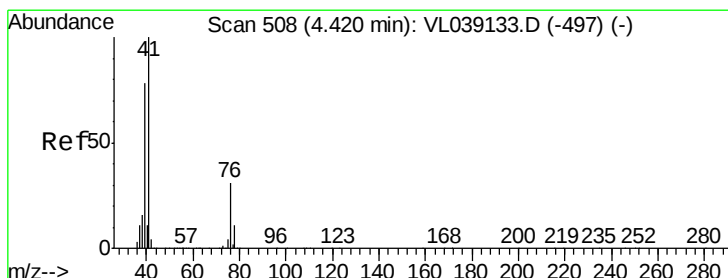
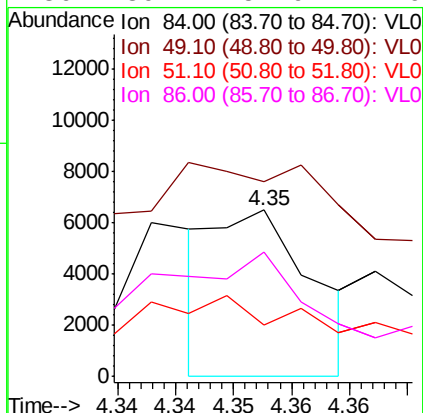
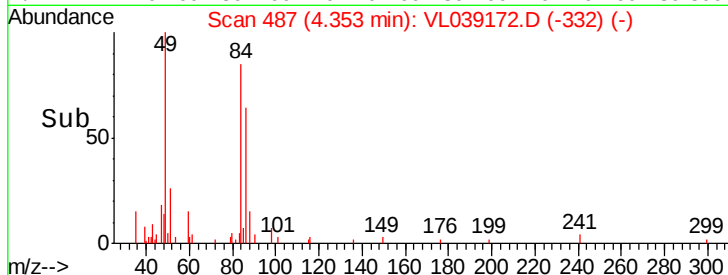
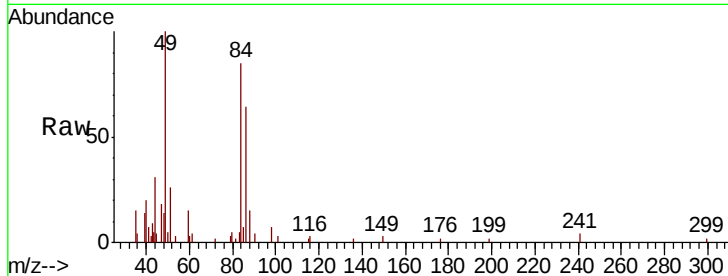
Tgt Ion: 96 Resp: 3926
 Ion Ratio Lower Upper
 96 100
 61 159.3 138.4 207.6
 98 30.2 47.8 71.8#





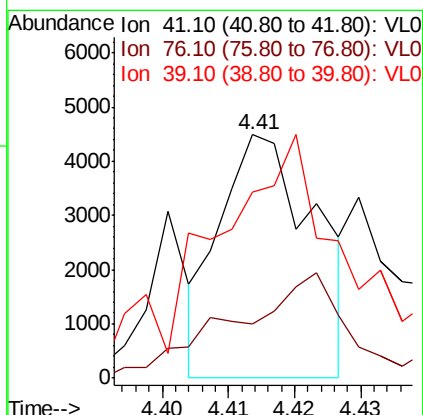
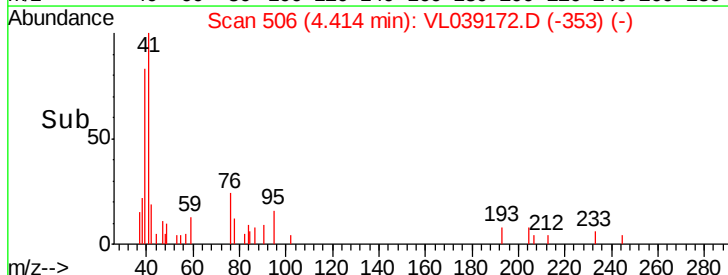
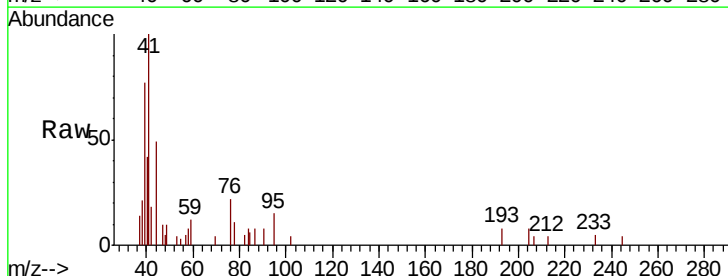
#20
Methvlene Chloride
Concen: 0.069 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 10:33

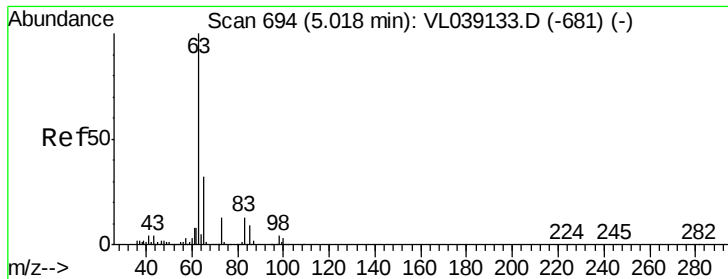
Tot Ion:	84	Resp:	3765
Ion	Ratio	Lower	Upper
84	100		
49	40.8	111.1	166.7#
51	10.7	35.3	52.9#
86	89.2	51.9	77.9#



#21
Allyl Chloride
Concen: 0.051 ppbv
RT: 4.41 min Scan# 506
Delta R.T. -0.01 min
Lab File: VL039172.D
Acq: 4 Jun 2022 10:33

Tgt Ion:	41	Resp:	4483
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.2#
39	0.0	62.2	93.2#





#24

1,1-Dichloroethane

Concen: 0.067 ppbv

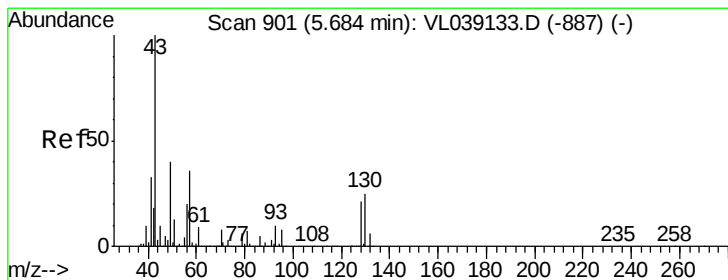
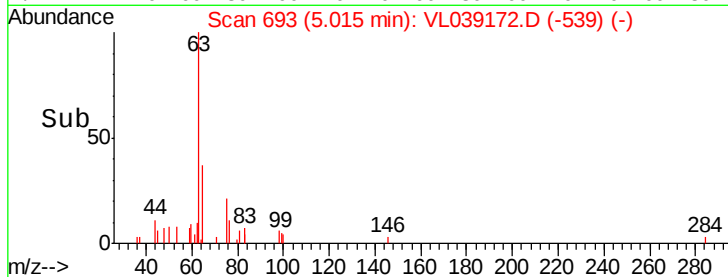
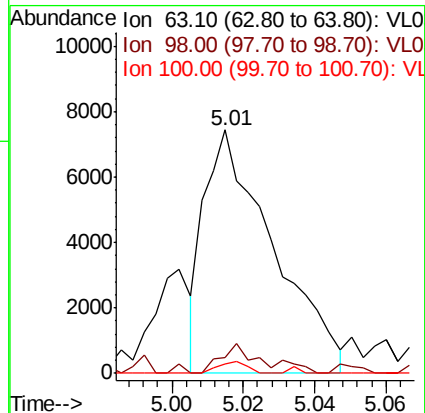
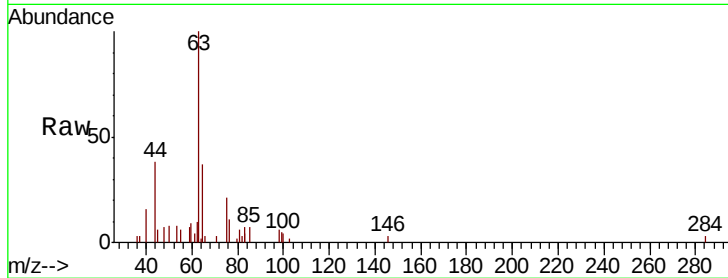
RT: 5.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

Tot Ion:	63	Resp:	9943
Ion	Ratio	Lower	Upper
63	100		
98	7.0	2.1	6.2#
100	4.1	1.5	4.5



#25

Ethyl Acetate

Concen: 0.093 ppbv

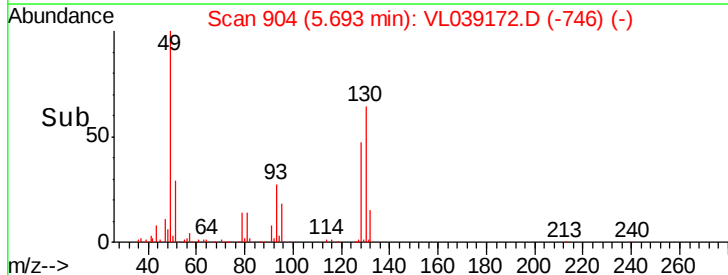
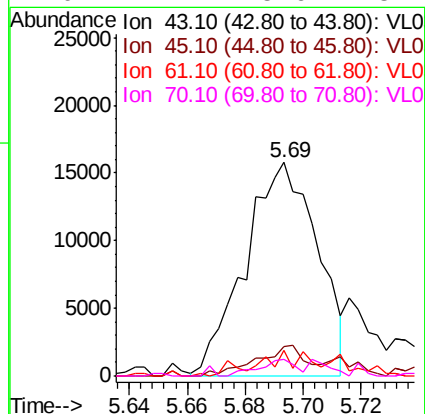
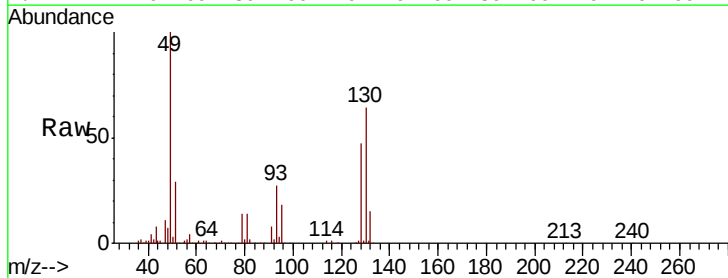
RT: 5.69 min Scan# 904

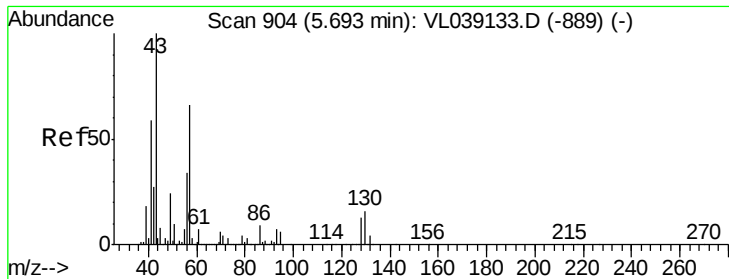
Delta R.T. 0.01 min

Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

Tgt Ion:	43	Resp:	27336
Ion	Ratio	Lower	Upper
43	100		
45	15.2	8.2	12.2#
61	12.6	8.4	12.6#
70	7.7	5.6	8.4





#26

Hexane

Concen: 0.067 ppbv

RT: 5.69 Instrument:

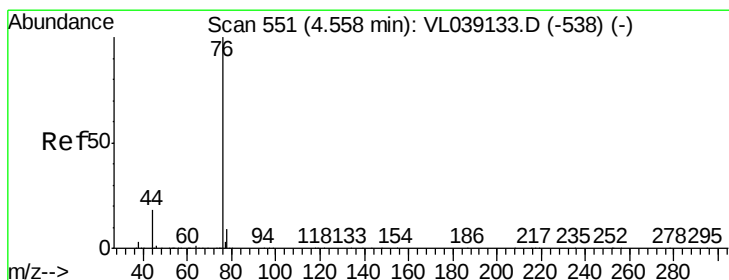
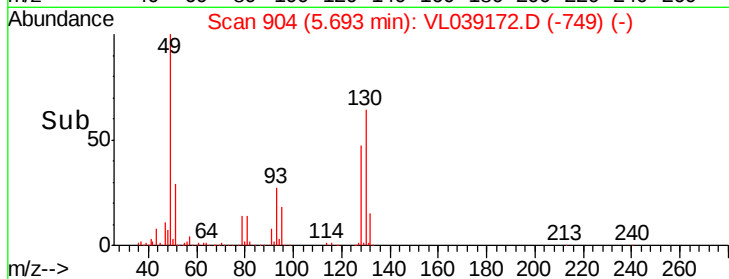
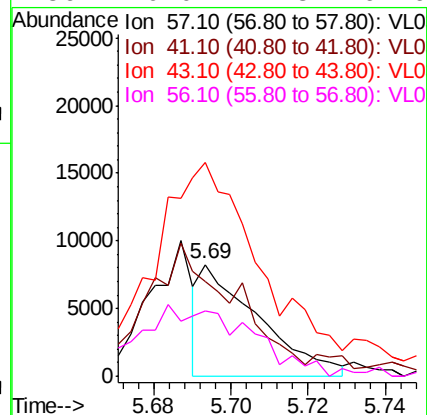
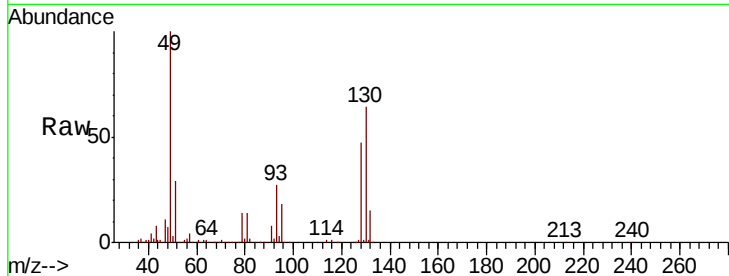
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

Tot Ion: 57 Resp: 8636

Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.4	108.6#
43	427.9	187.0	280.6#
56	0.0	41.8	62.6#



#27

Carbon Disulfide

Concen: 0.056 ppbv

RT: 4.56 min Scan# 551

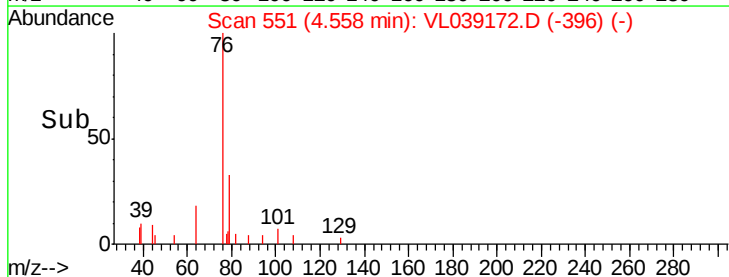
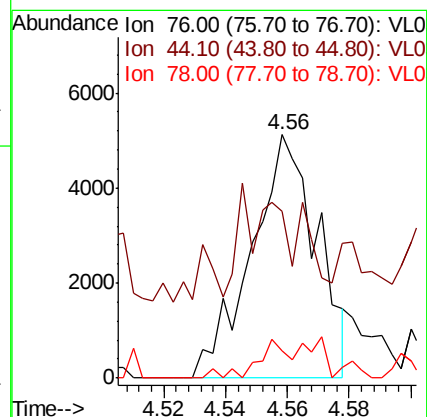
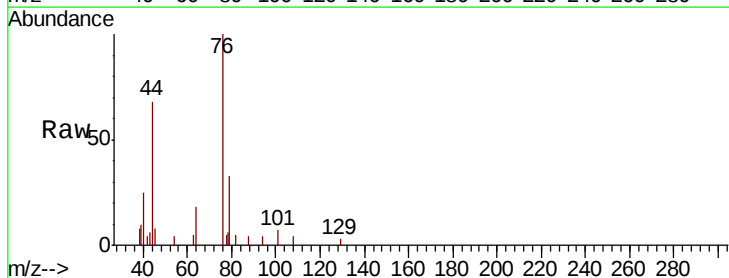
Delta R.T. -0.00 min

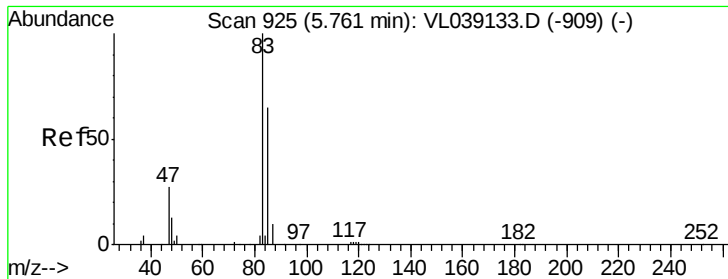
Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

Tgt Ion: 76 Resp: 7498

Ion	Ratio	Lower	Upper
76	100		
44	88.3	14.4	21.6#
78	0.0	7.7	11.5#





#29

Chloroform

Concen: 0.105 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

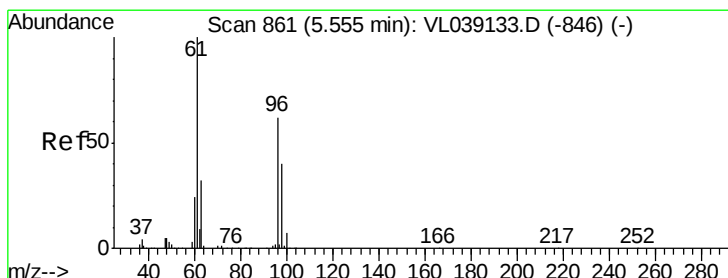
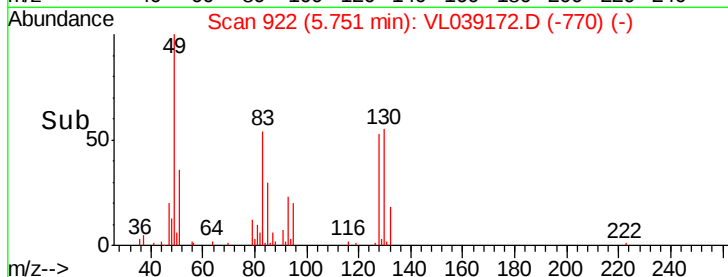
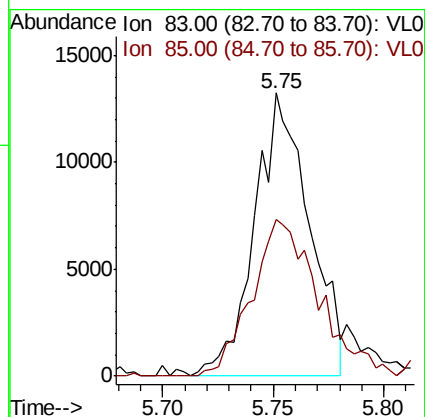
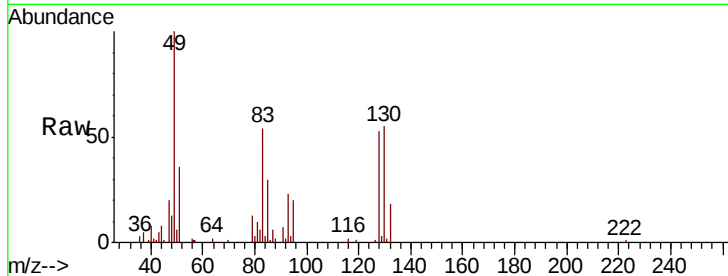
Acq: 4 Jun 2022 10:33

Tot Ion: 83 Resp: 22736

Ion Ratio Lower Upper

83 100

85 55.4 52.4 78.6



#31

cis-1,2-Dichloroethene

Concen: 0.038 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.01 min

Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

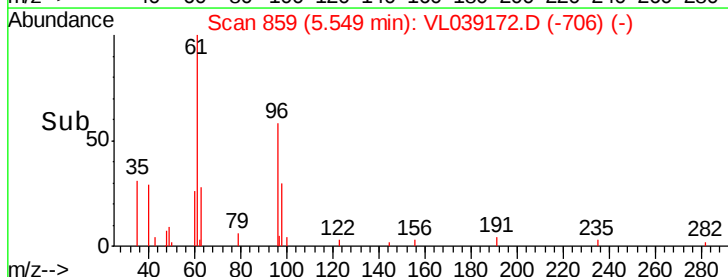
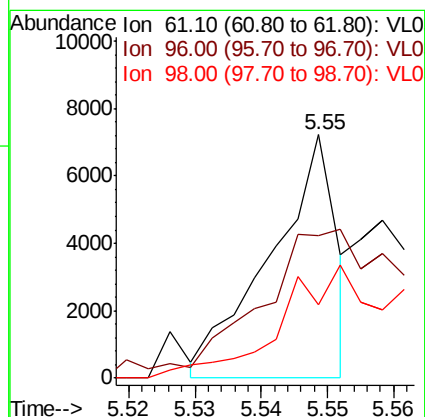
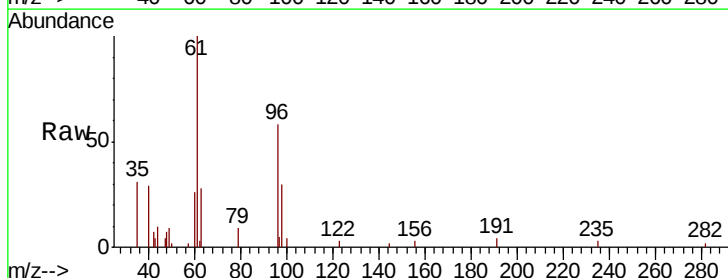
Tgt Ion: 61 Resp: 4989

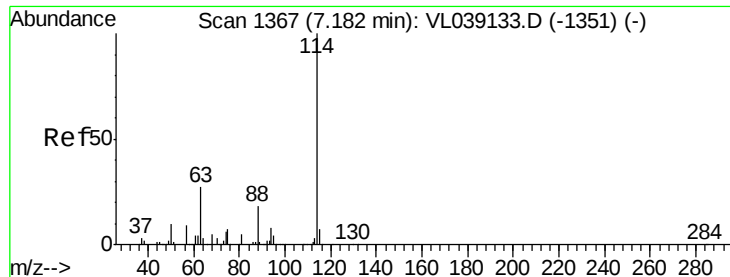
Ion Ratio Lower Upper

61 100

96 58.1 49.9 74.9

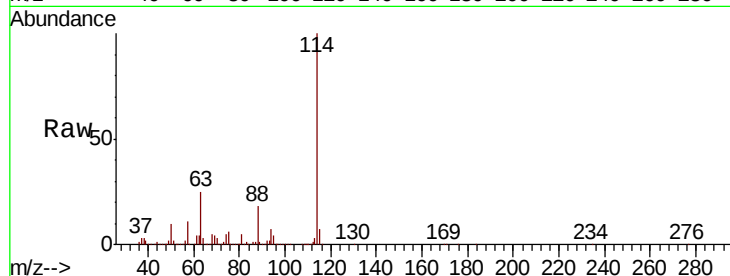
98 26.4 32.0 48.0#



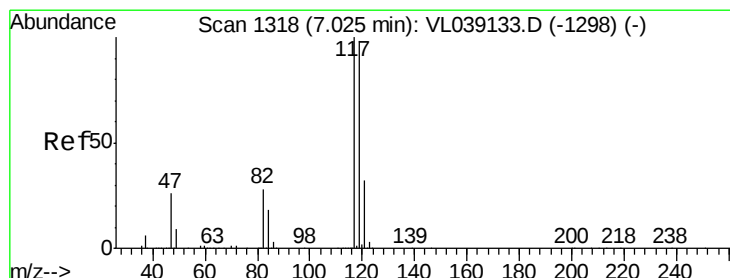
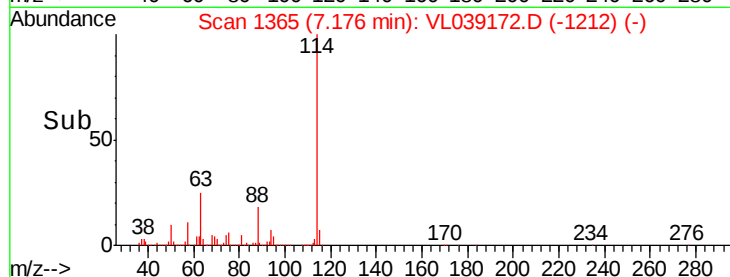
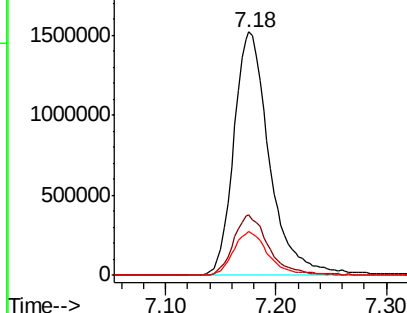


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 10:33

Tot Ion:114 Resp: 3384881
 Ion Ratio Lower Upper
 114 100
 63 25.1 21.7 32.5
 88 17.9 14.8 22.2

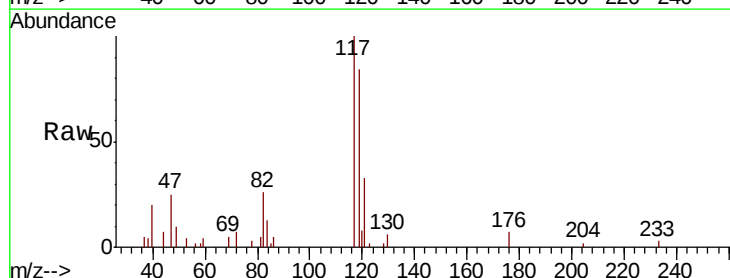


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

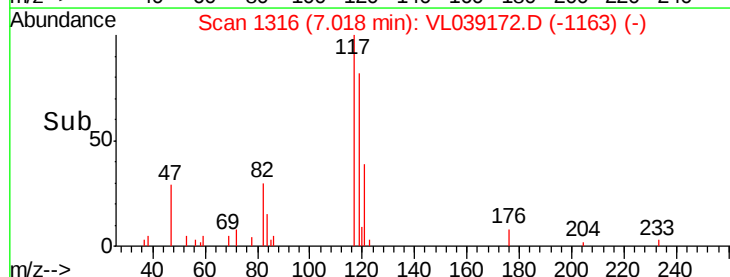
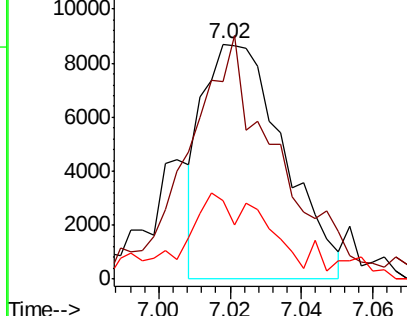


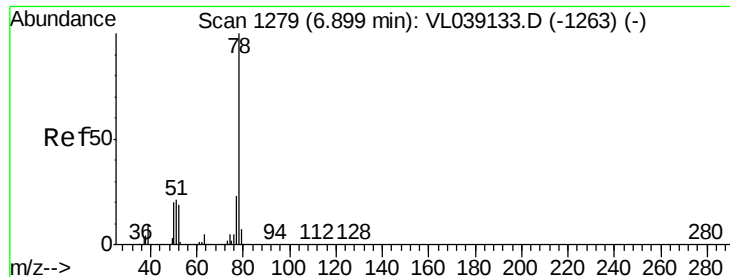
#35
 Carbon Tetrachloride
 Concen: 0.055 ppbv
 RT: 7.02 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

Tgt Ion:117 Resp: 13694
 Ion Ratio Lower Upper
 117 100
 119 72.1 78.6 118.0#
 121 29.2 25.4 38.0



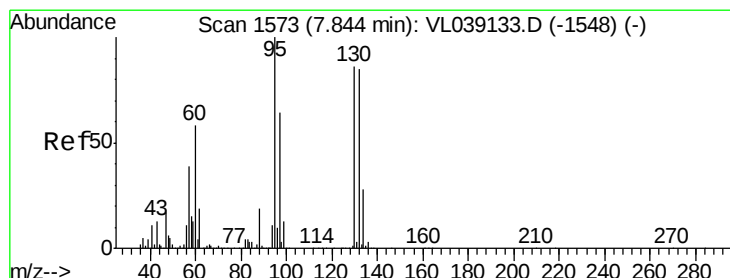
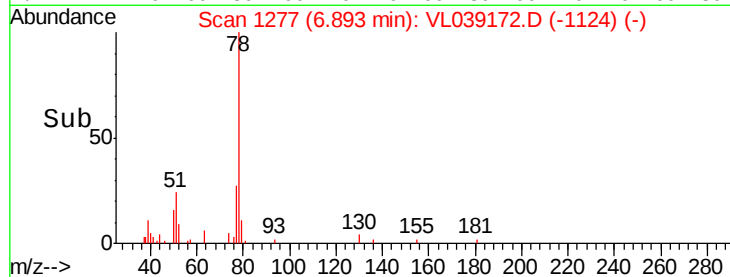
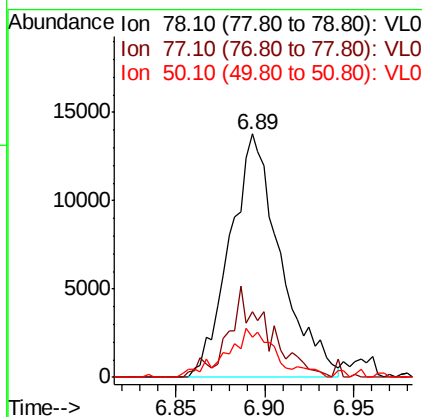
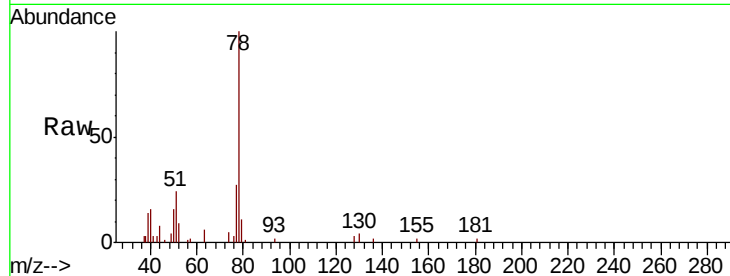
Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V





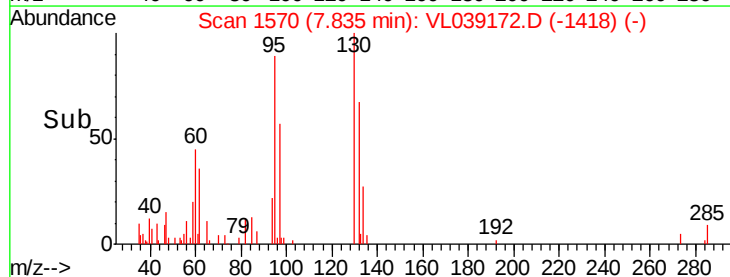
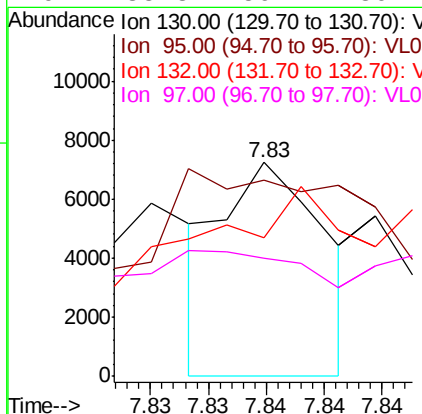
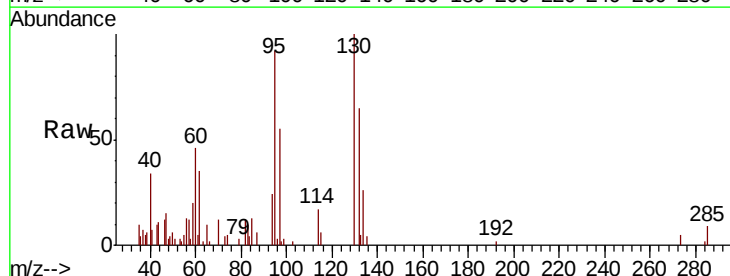
#36
Benzene
Concen: 0.099 ppbv
RT: 6.89
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 10:33

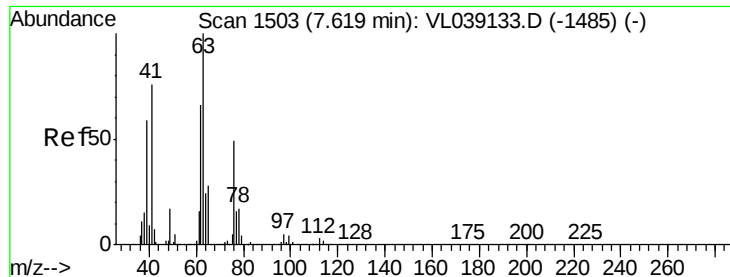
Tot Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.6	27.8
50	13.6	15.8	23.8#



#38
Trichloroethene
Concen: 0.035 ppbv
RT: 7.83 min Scan# 1570
Delta R.T.: -0.01 min
Lab File: VL039172.D
Acq: 4 Jun 2022 10:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	6.4	93.3	139.9#
132	2.4	79.0	118.4#
97	35.8	59.4	89.2#





#39

1,2-Dichloropropane

Concen: 7.574 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

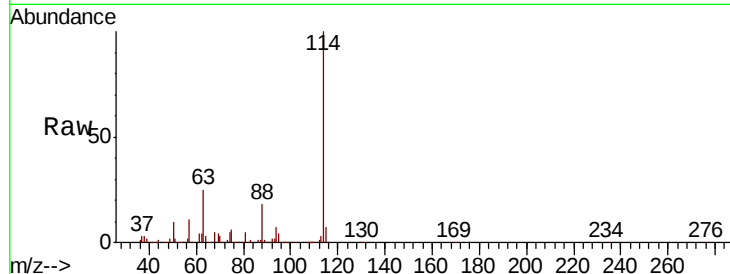
Tot Ion: 63 Resp: 827834

Ion Ratio Lower Upper

63 100

41 0.2 60.8 91.2#

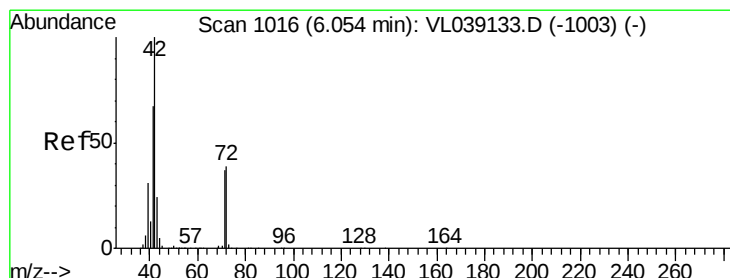
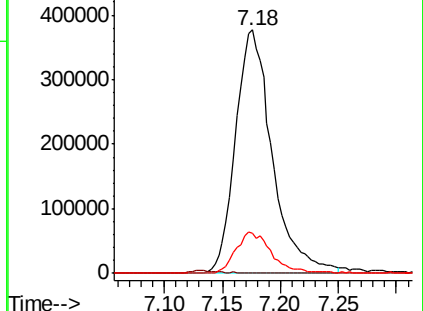
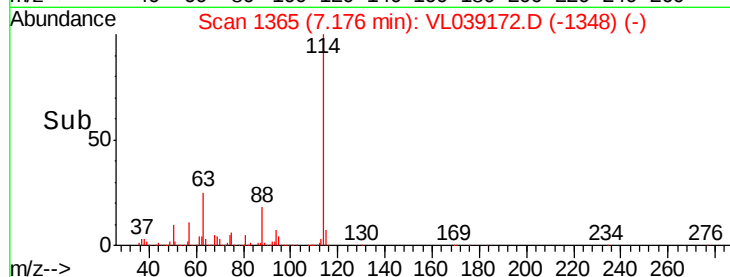
62 16.4 52.9 79.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.037 ppbv

RT: 6.08 min Scan# 1025

Delta R.T. 0.03 min

Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

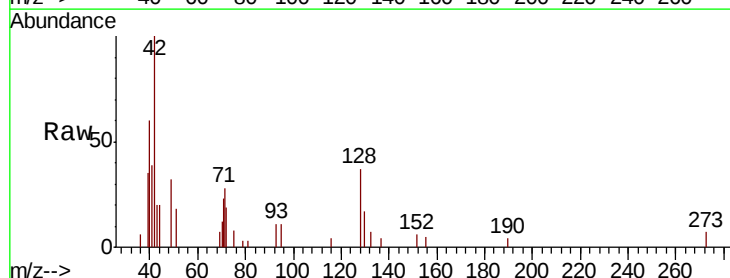
Tgt Ion: 42 Resp: 4043

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

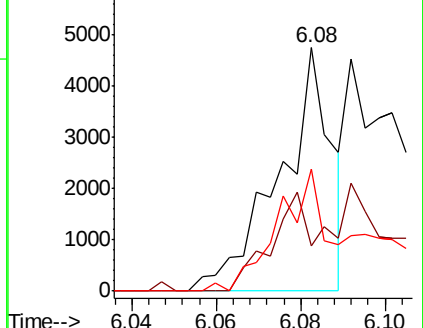
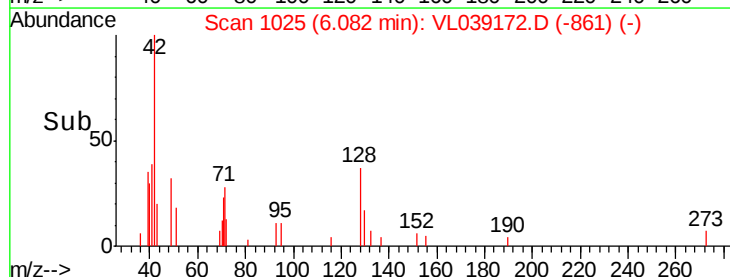
71 105.0 31.1 46.7#

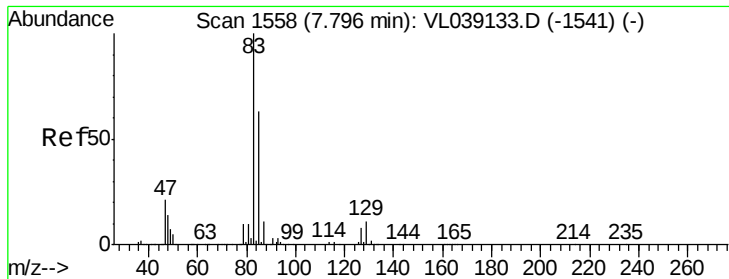


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.044 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

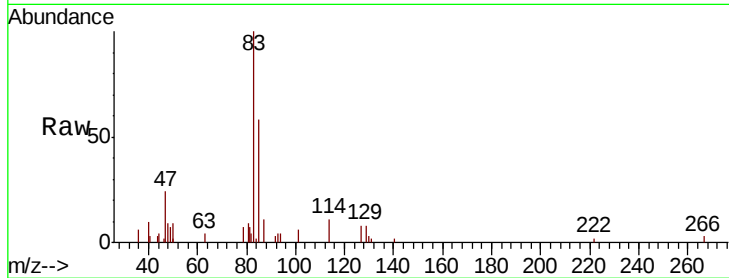
Tot Ion: 83 Resp: 11025

Ion Ratio Lower Upper

83 100

85 60.8 50.2 75.4

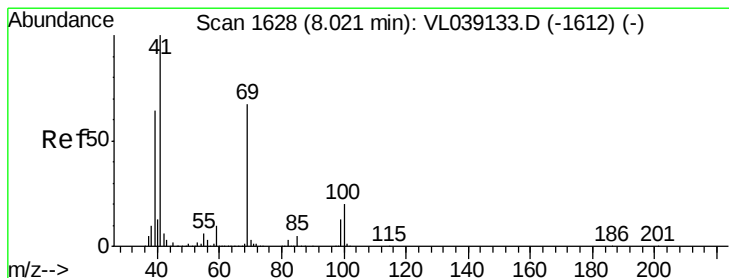
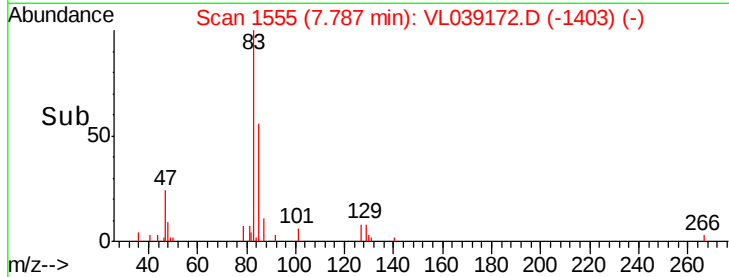
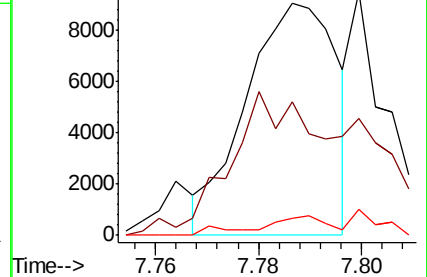
127 9.2 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.063 ppbv

RT: 8.02 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

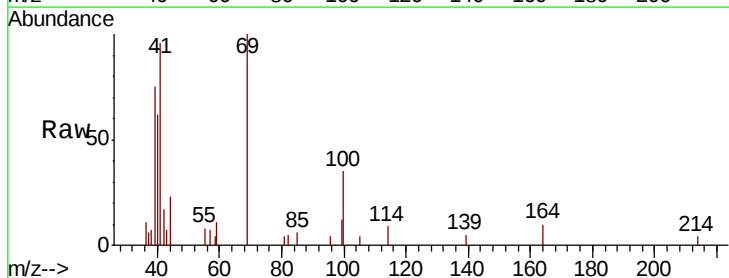
Tgt Ion: 69 Resp: 6732

Ion Ratio Lower Upper

69 100

41 197.2 121.9 182.9#

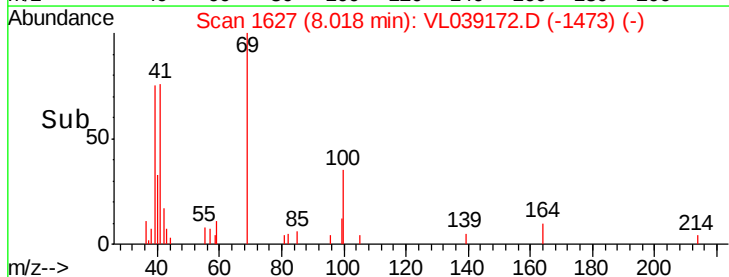
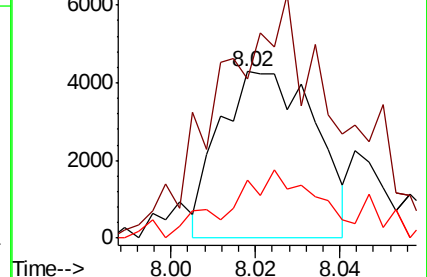
100 52.2 24.1 36.1#

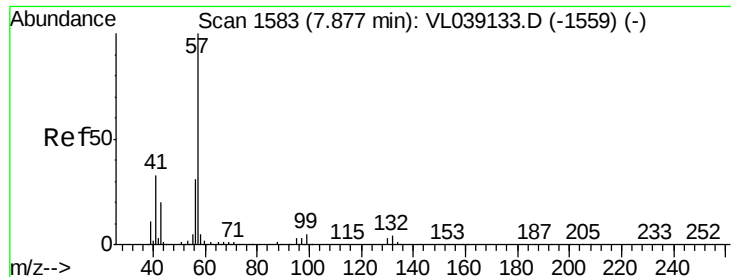


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.056 ppbv

RT: 7.87 Instrument:

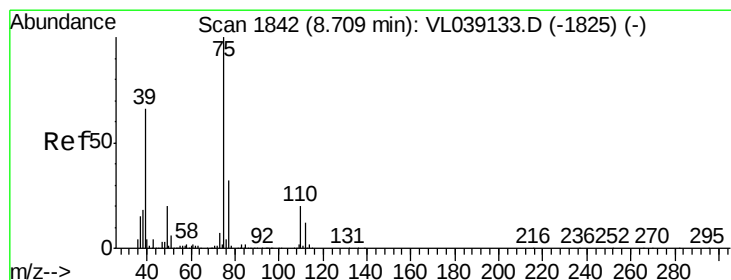
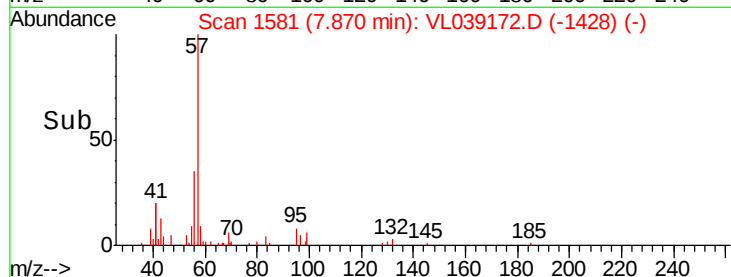
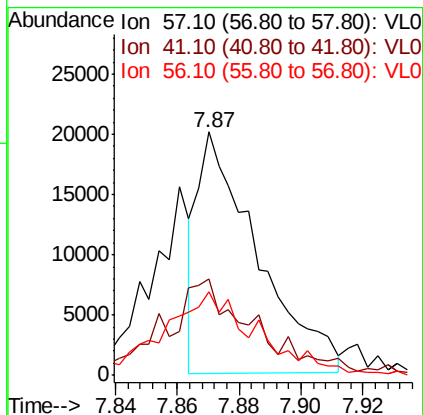
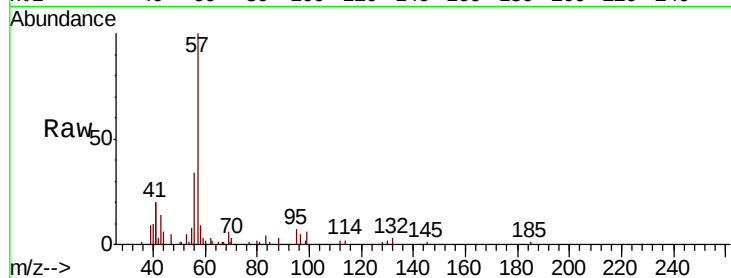
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

Tot Ion: 57 Resp: 26902

Ion	Ratio	Lower	Upper
57	100		
41	66.1	26.2	39.4#
56	57.2	24.7	37.1#



#46

cis-1,3-Dichloropropene

Concen: 0.038 ppbv

RT: 8.70 min Scan# 1839

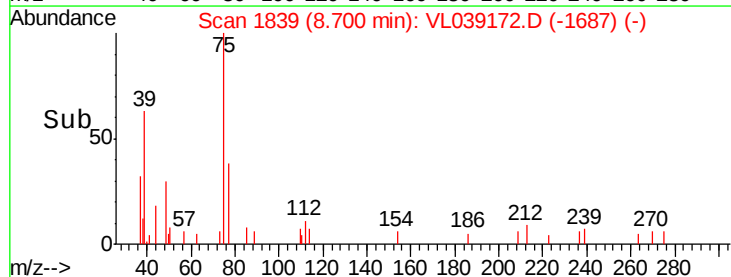
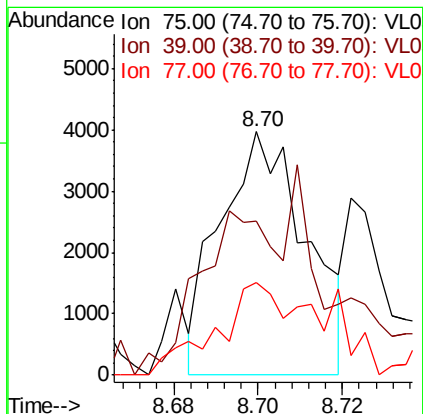
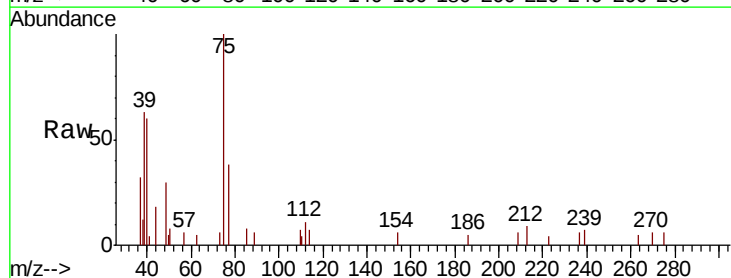
Delta R.T. -0.01 min

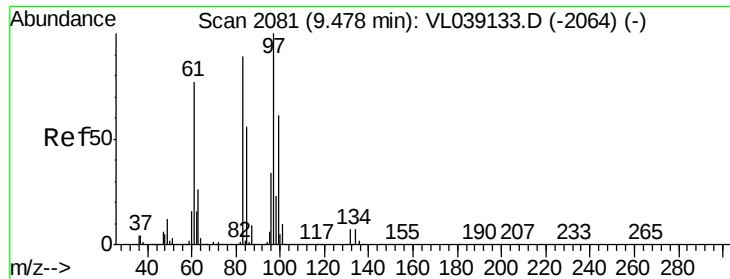
Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

Tgt Ion: 75 Resp: 5629

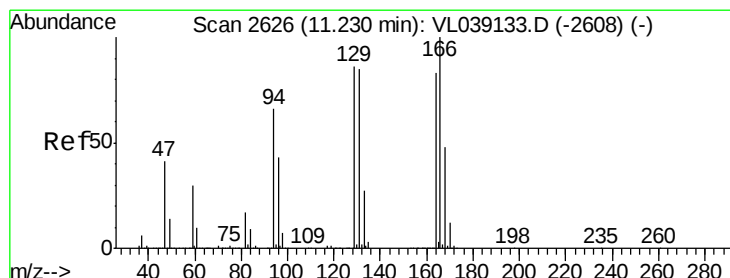
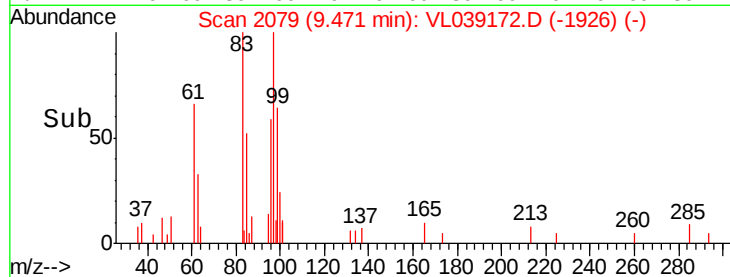
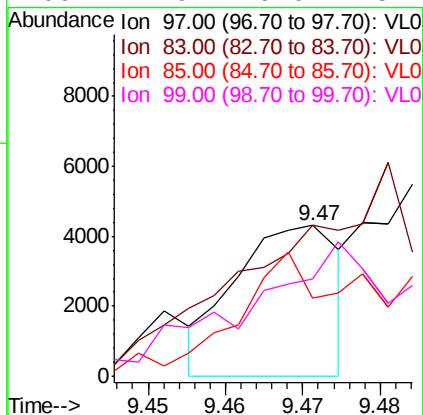
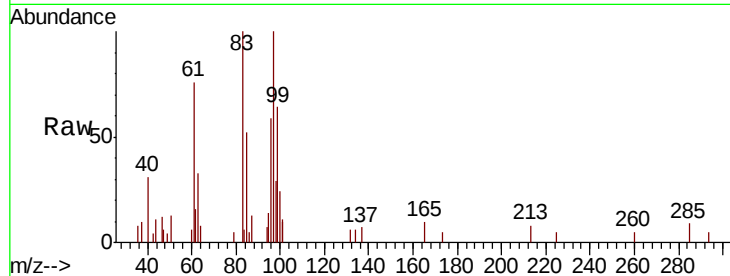
Ion	Ratio	Lower	Upper
75	100		
39	41.1	52.4	78.6#
77	29.5	25.5	38.3





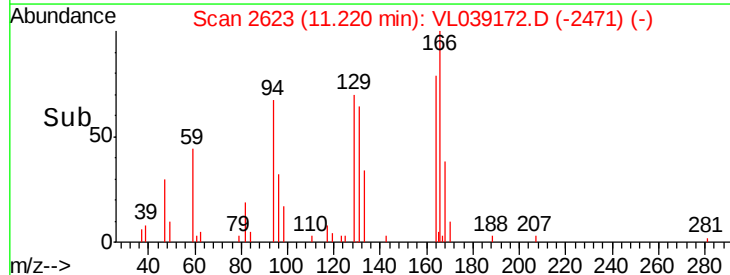
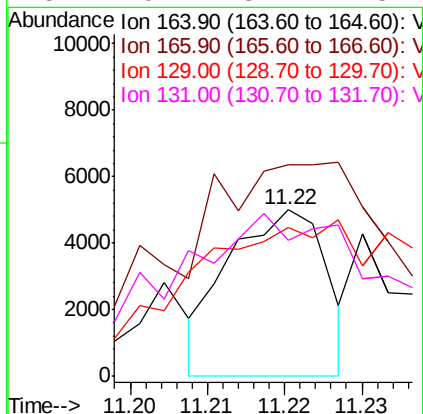
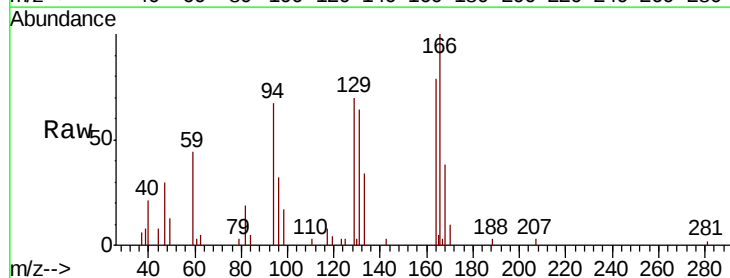
#47
 1,1,2-Trichloroethane
 Concen: 0.035 ppbv
 RT: 9.47
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 VIBLK
 Acq: 4 Jun 2022 10:33

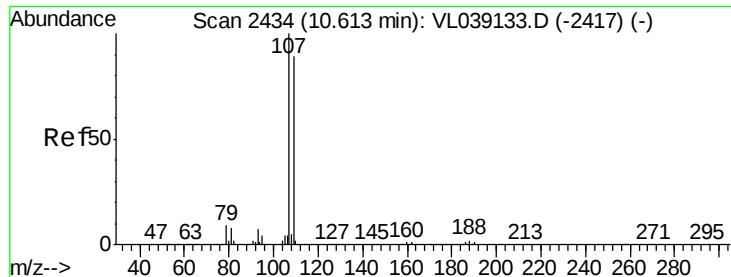
Tot Ion:	97	Resp:	4047
Ion	Ratio	Lower	Upper
97	100		
83	82.4	71.6	107.4
85	55.3	44.8	67.2
99	47.9	49.0	73.4#



#52
 Tetrachloroethene
 Concen: 0.041 ppbv
 RT: 11.22 min Scan# 2623
 Delta R.T. -0.01 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

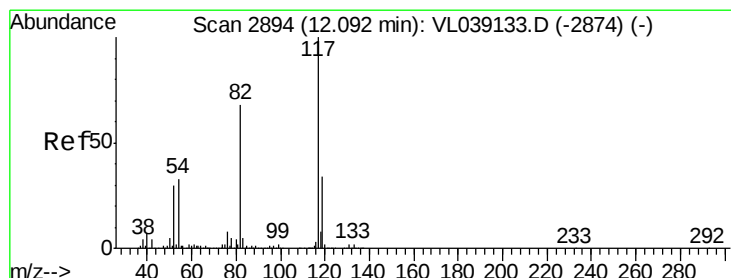
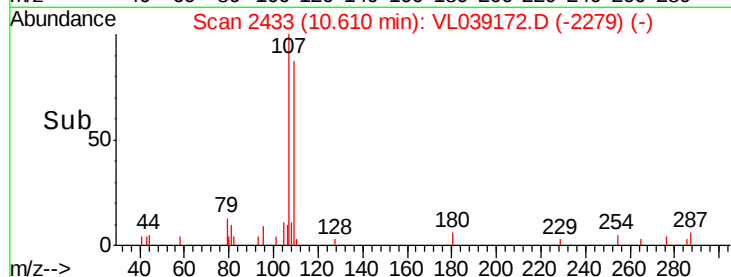
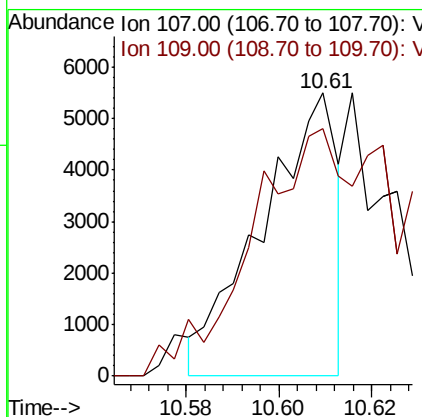
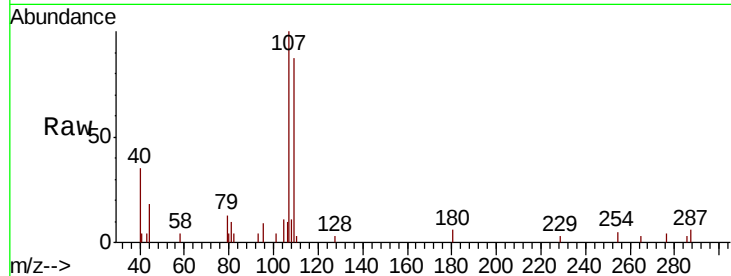
Tgt Ion:	164	Resp:	4410
Ion	Ratio	Lower	Upper
164	100		
166	104.3	96.3	144.5
129	41.5	82.5	123.7#
131	9.4	82.1	123.1#





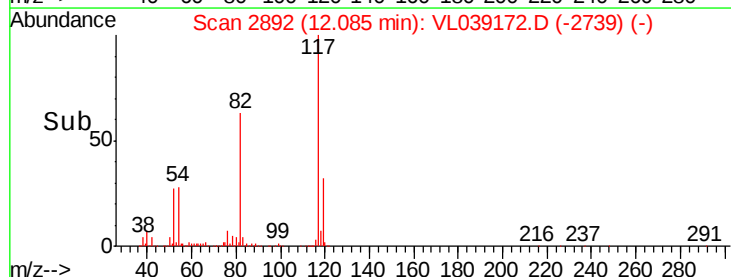
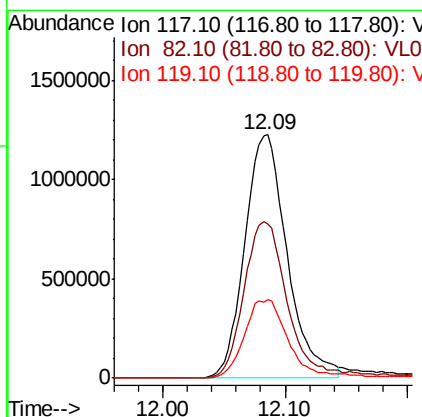
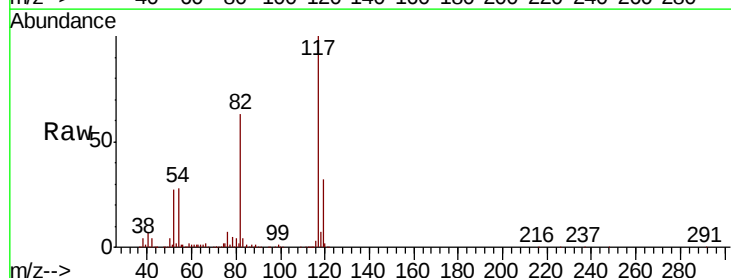
#54
 1,2-Dibromoethane
 Concen: 0.041 ppbv
 RT: 10.61 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 10:33

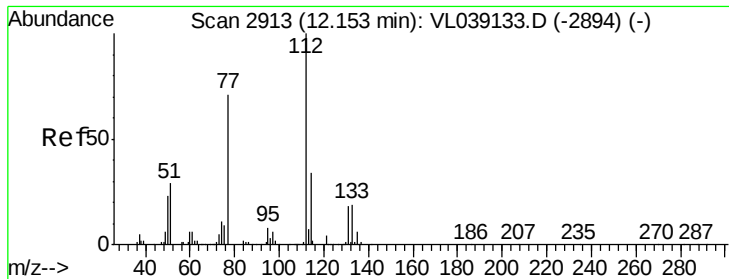
Tot Ion: 107 Resp: 6248
 Ion Ratio Lower Upper
 107 100
 109 77.9 71.4 107.0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2892
 Delta R.T.: -0.01 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

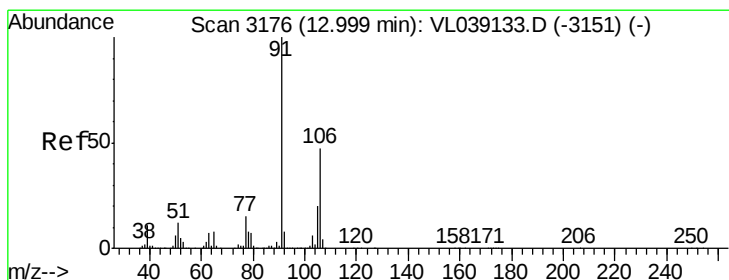
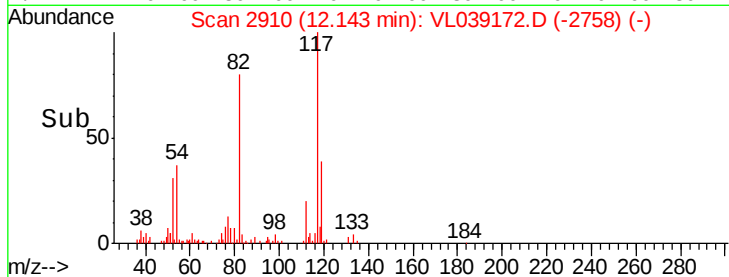
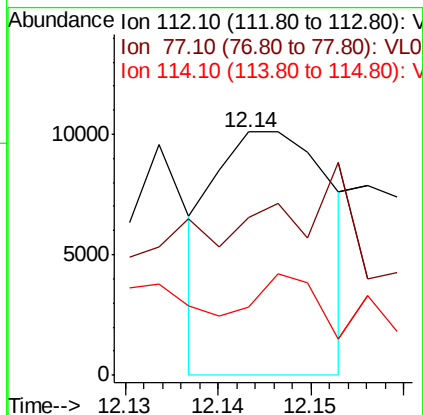
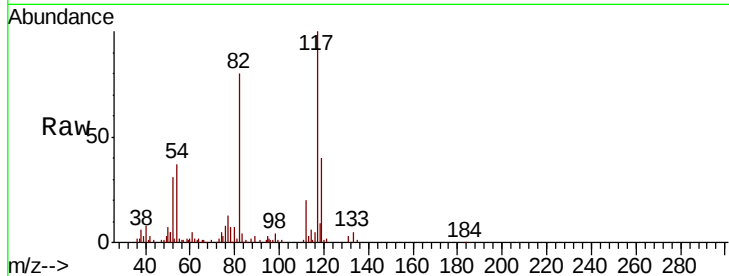
Tgt Ion: 117 Resp: 2932658
 Ion Ratio Lower Upper
 117 100
 82 69.7 55.1 82.7
 119 33.8 24.7 37.1





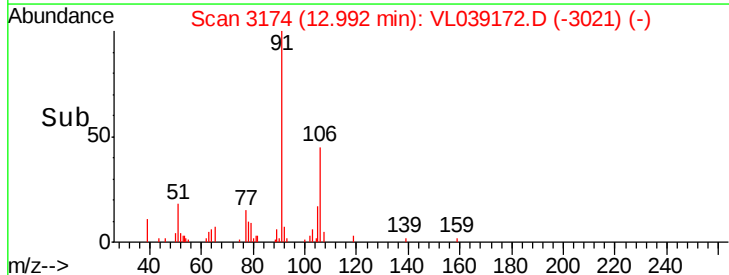
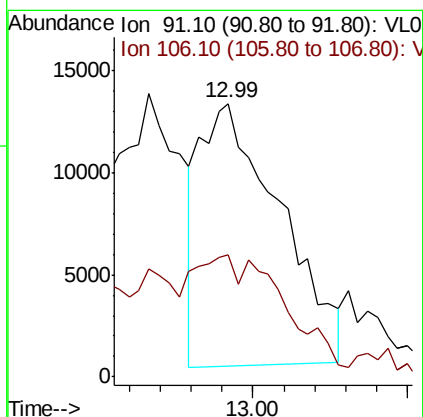
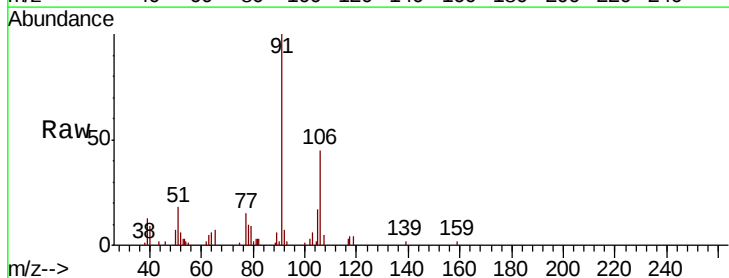
#57
Chlorobenzene
Concen: 0.040 ppbv
RT: 12.14 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 10:33

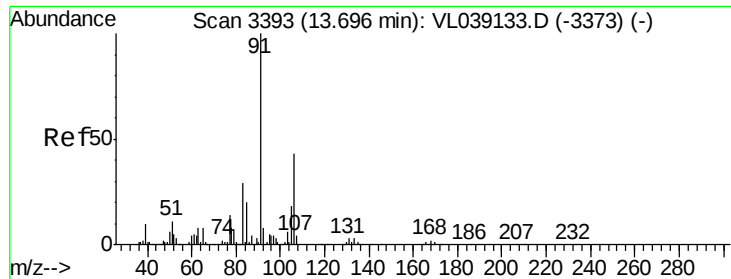
Tot Ion: 112 Resp: 8776
Ion Ratio Lower Upper
112 100
77 2.6 56.5 84.7#
114 37.7 30.3 37.1#



#59
m/p-Xylene
Concen: 0.065 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL039172.D
Acq: 4 Jun 2022 10:33

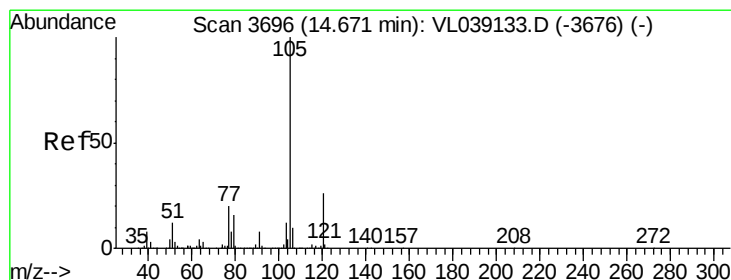
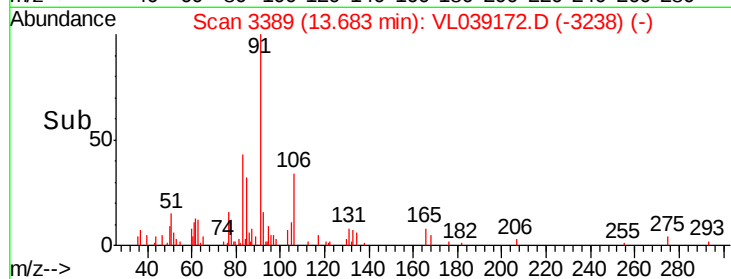
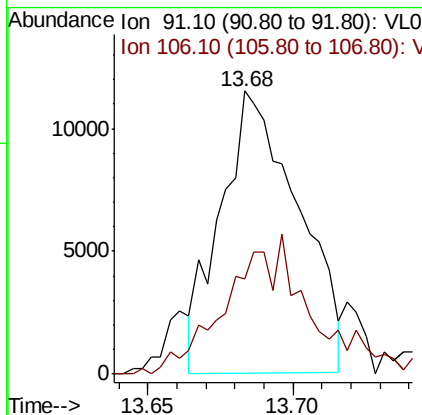
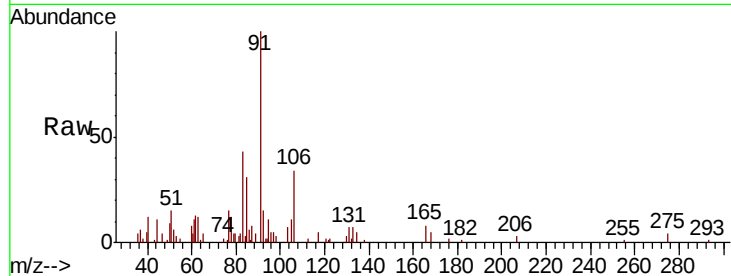
Tgt Ion: 91 Resp: 23225
Ion Ratio Lower Upper
91 100
106 102.0 34.3 51.5#





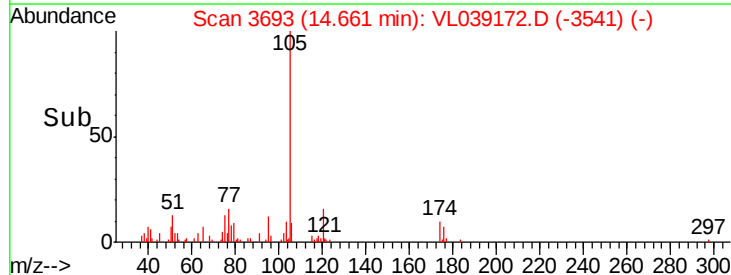
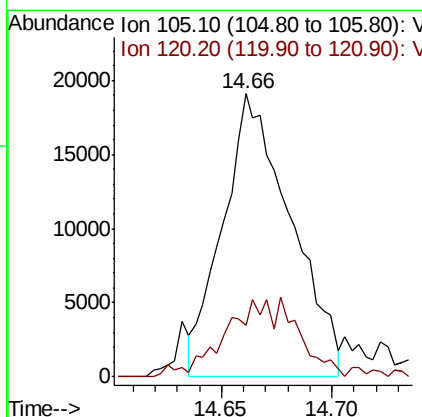
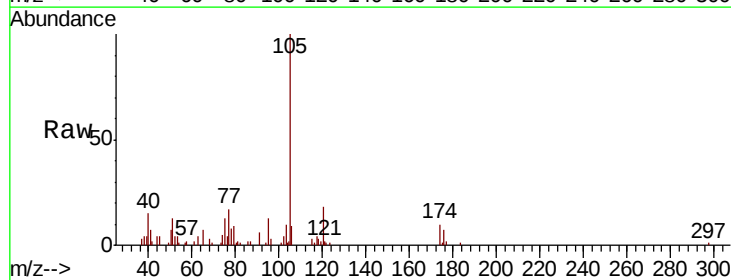
#60
o-Xylene
Concen: 0.064 ppbv
RT: 13.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 10:33

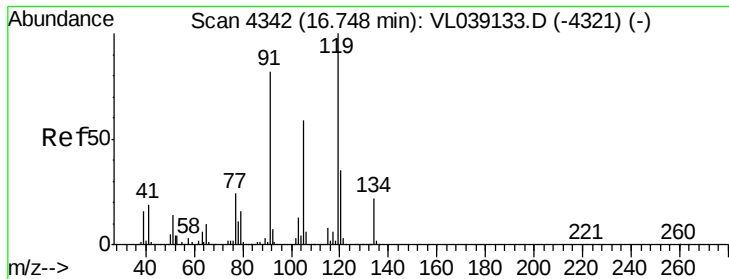
Tot Ion: 91 Resp: 21445
Ion Ratio Lower Upper
91 100
106 53.7 22.3 66.9



#62
Isopropylbenzene
Concen: 0.082 ppbv
RT: 14.66 min Scan# 3693
Delta R.T. -0.01 min
Lab File: VL039172.D
Acq: 4 Jun 2022 10:33

Tgt Ion: 105 Resp: 40866
Ion Ratio Lower Upper
105 100
120 30.9 20.3 30.5#





#65

tert-Butylbenzene

Concen: 0.041 ppbv

RT: 16.74 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 4 Jun 2022 10:33

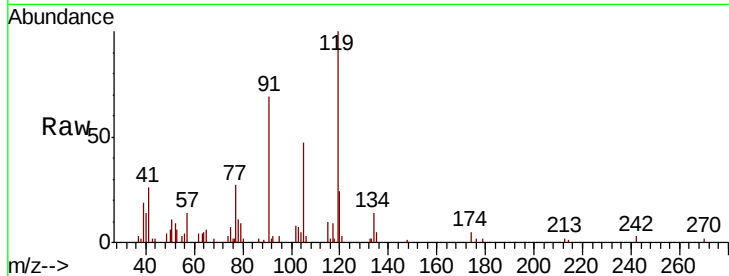
Tot Ion:119 Resp: 18815

Ion Ratio Lower Upper

119 100

91 0.0 67.1 100.7#

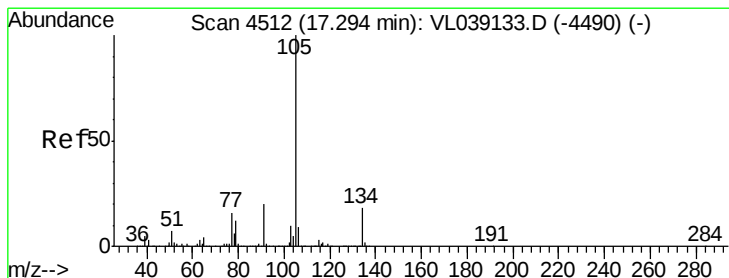
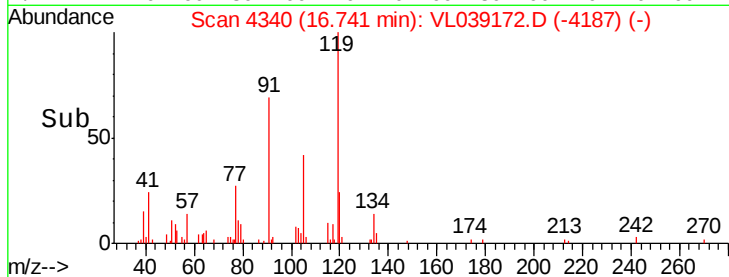
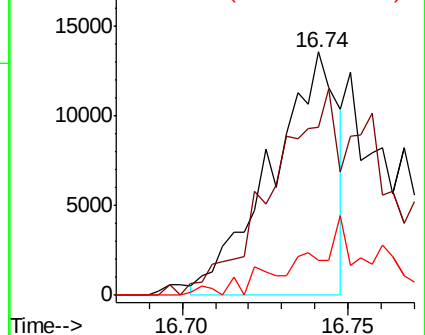
134 0.0 15.8 23.8#



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



#67

sec-Butylbenzene

Concen: 0.034 ppbv

RT: 17.28 min Scan# 4508

Delta R.T. -0.01 min

Lab File: VL039172.D

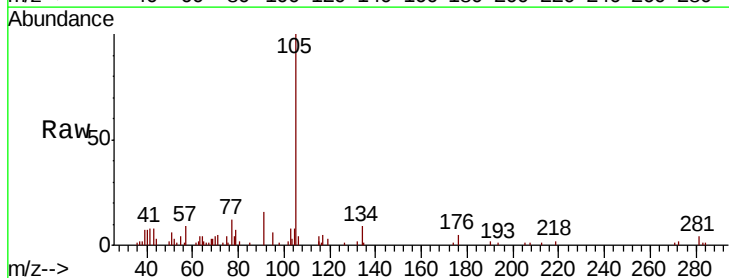
Acq: 4 Jun 2022 10:33

Tgt Ion:105 Resp: 20998

Ion Ratio Lower Upper

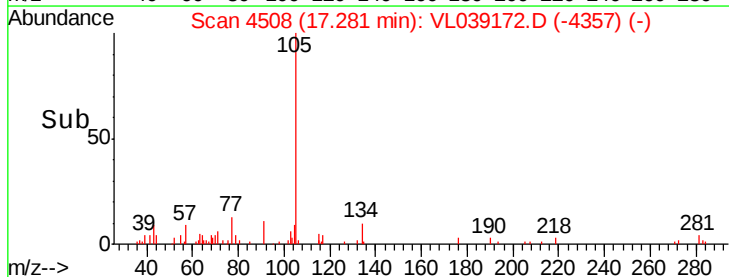
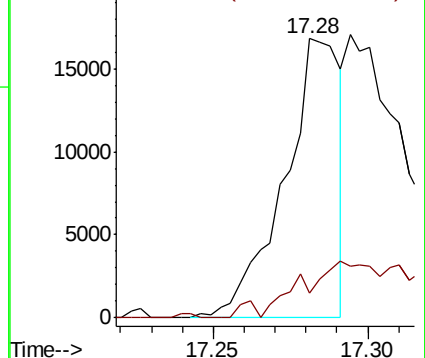
105 100

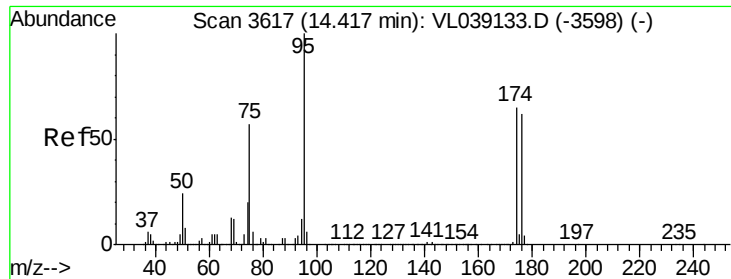
134 0.0 14.4 21.6#



Abundance Ion 105.10 (104.80 to 105.80): V

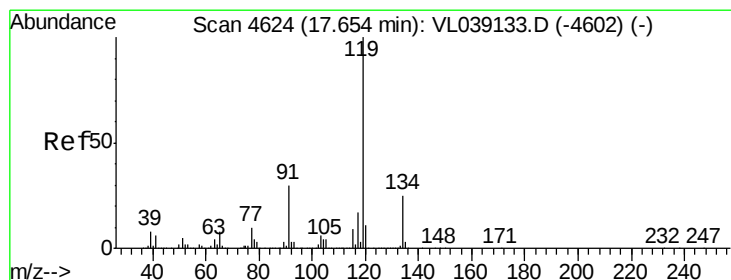
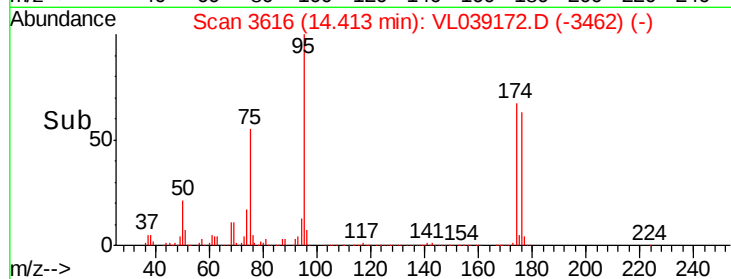
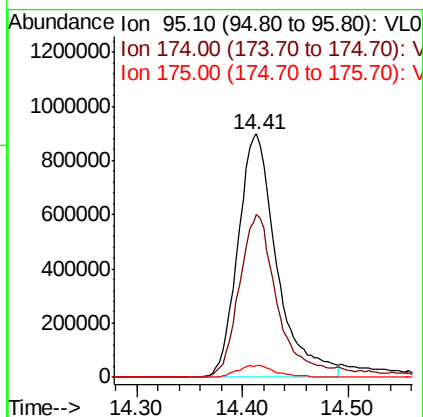
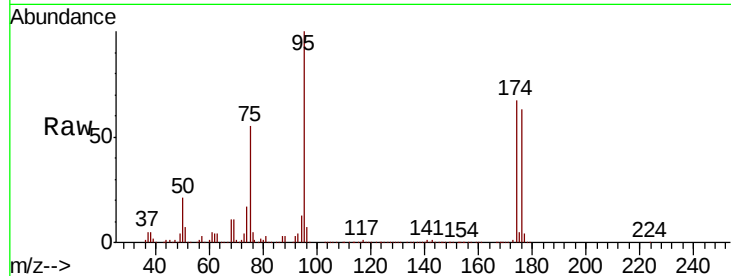
Ion 134.20 (133.90 to 134.90): V





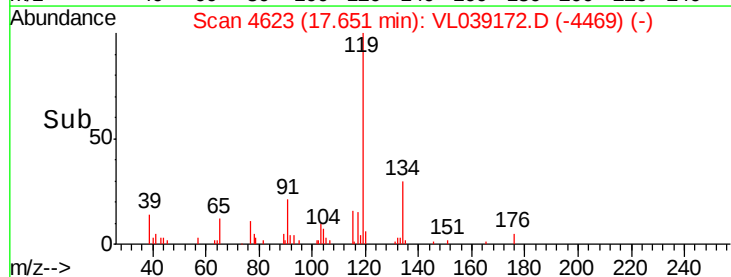
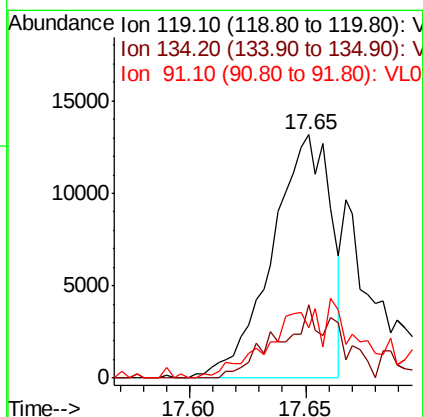
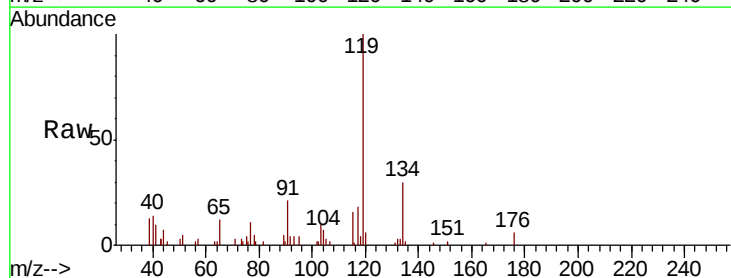
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.511 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 4 Jun 2022 10:33

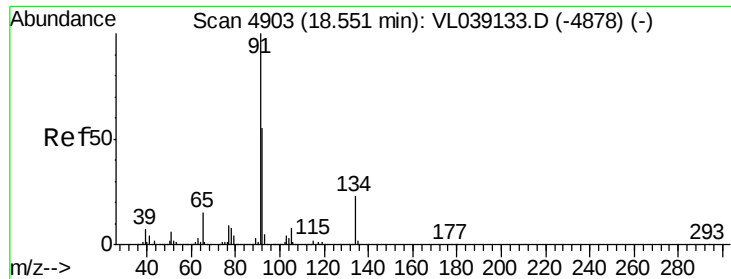
Tot Ion: 95 Resp: 2305861
 Ion Ratio Lower Upper
 95 100
 174 71.0 53.8 80.8
 175 5.3 4.1 6.1



#69
 p-Isopropyltoluene
 Concen: 0.044 ppbv
 RT: 17.65 min Scan# 4623
 Delta R.T. -0.00 min
 Lab File: VL039172.D
 Acq: 4 Jun 2022 10:33

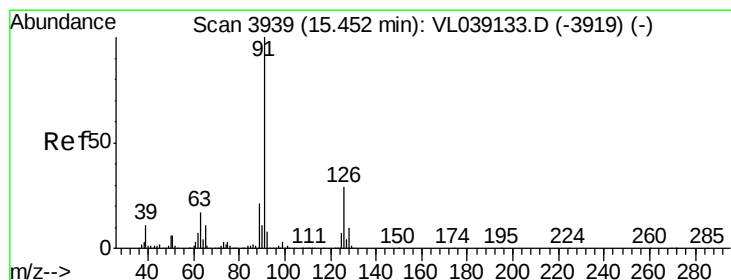
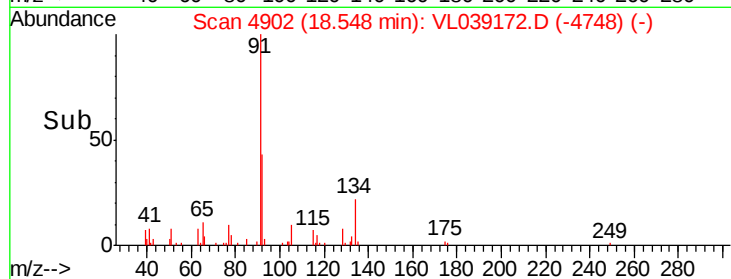
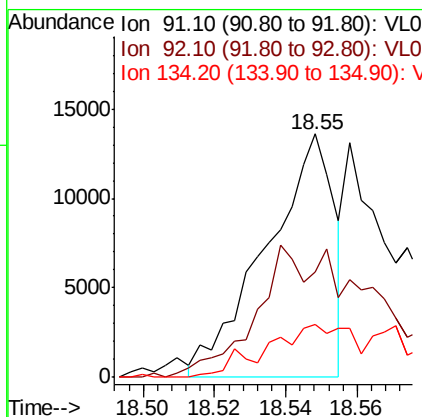
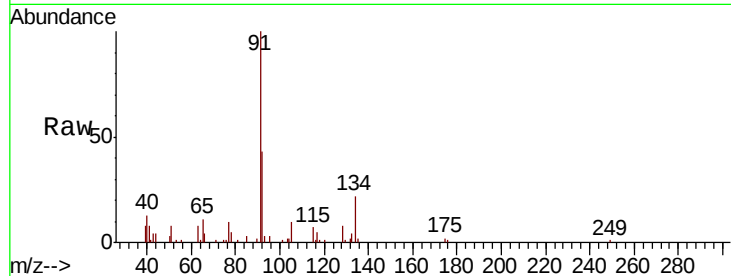
Tgt Ion: 119 Resp: 23116
 Ion Ratio Lower Upper
 119 100
 134 35.6 20.4 30.6#
 91 0.0 24.2 36.4#





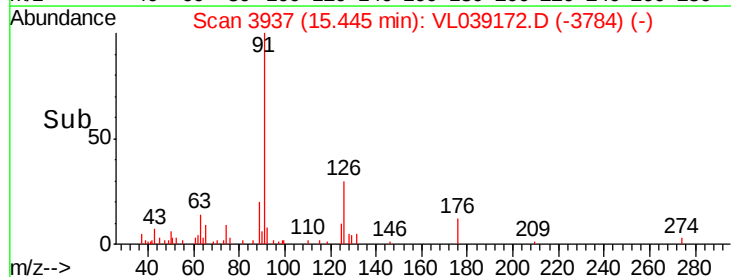
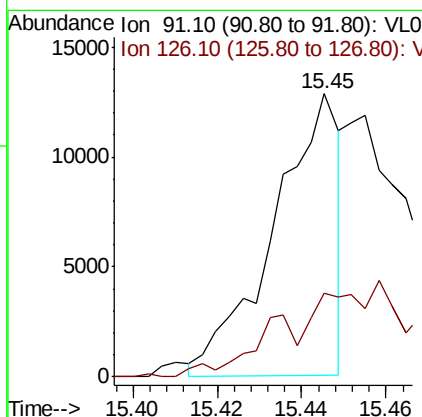
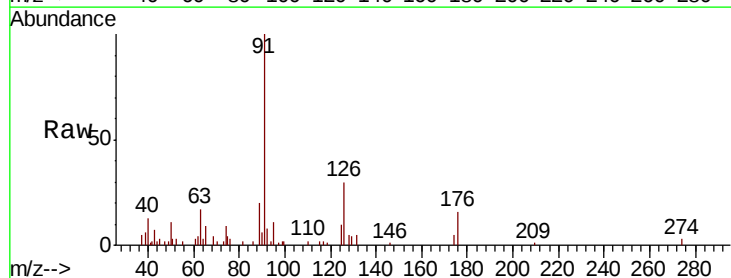
#70
n-Butylbenzene
Concen: 0.033 ppbv
RT: 18.55
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 10:33

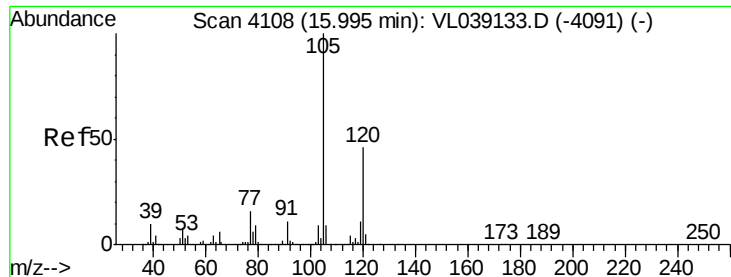
Tot Ion	91	Resp	17955
Ion Ratio	Lower	Upper	
91	100		
92	101.7	43.6	65.4#
134	46.2	17.7	26.5#



#71
2-Chlorotoluene
Concen: 0.037 ppbv
RT: 15.45 min Scan# 3937
Delta R.T. -0.01 min
Lab File: VL039172.D
Acq: 4 Jun 2022 10:33

Tgt Ion	91	Resp	13878
Ion Ratio	Lower	Upper	
91	100		
126	0.0	12.2	48.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.037 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

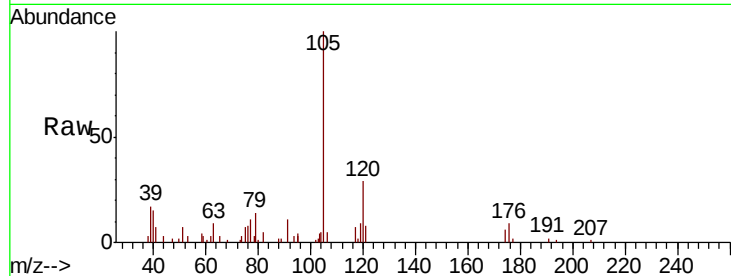
Acq: 4 Jun 2022 10:33

Tot Ion:105 Resp: 13240

Ion Ratio Lower Upper

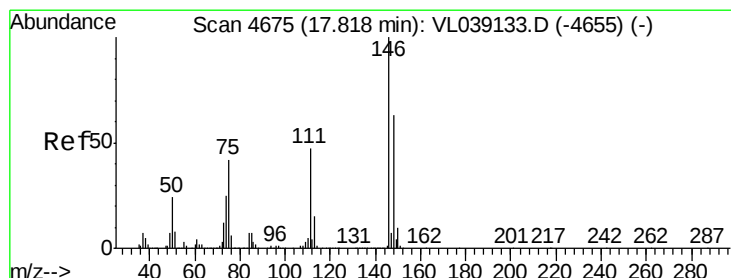
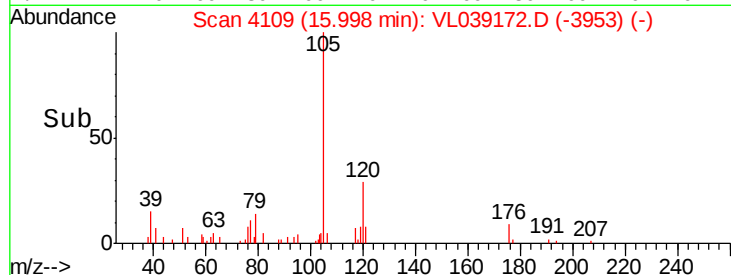
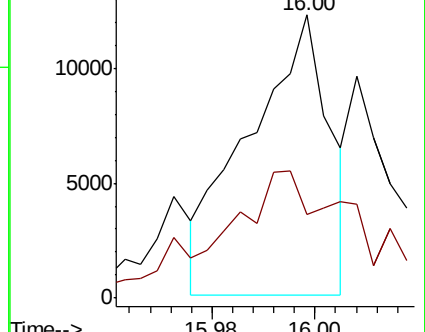
105 100

120 29.4 36.7 55.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#77

1,2-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.81 min Scan# 4672

Delta R.T. -0.01 min

Lab File: VL039172.D

Acq: 4 Jun 2022 10:33

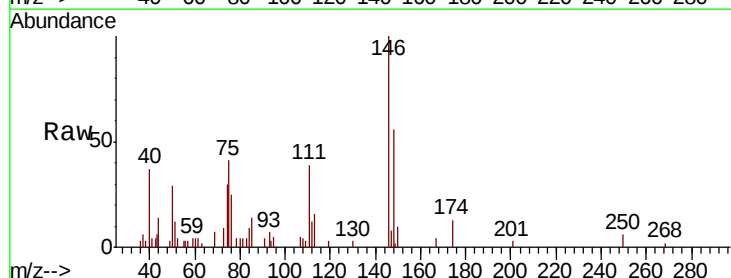
Tgt Ion:146 Resp: 7188

Ion Ratio Lower Upper

146 100

111 0.0 24.4 73.4#

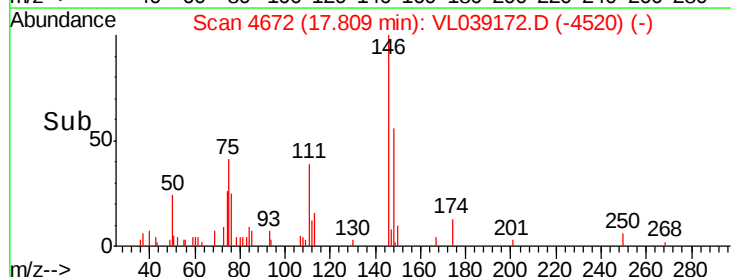
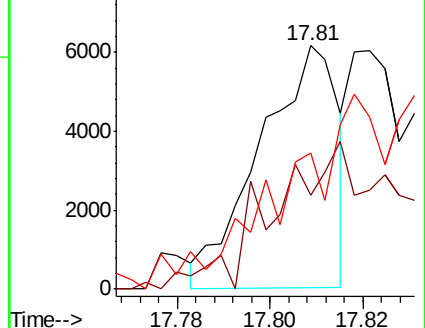
148 0.0 32.1 96.5#

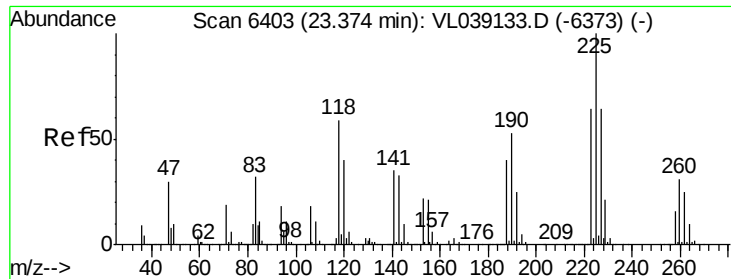


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78
 Hexachloro-1,3-Butadiene
 Concen: 0.035 ppbv
 RT: 23.36
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 VIBLK
 Acq: 4 Jun 2022 10:33

Tot Ion	Ratio	Lower	Upper
225	100		
223	145.9	51.4	77.0#
227	161.2	50.6	75.8#

