

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038970.D
 Acq On : 5 May 2022 13:20
 Operator : SY/AP
 Sample : N2682-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 2DL

Quant Time: May 06 07:27:50 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1286942	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3009428	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2557190	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2062000	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

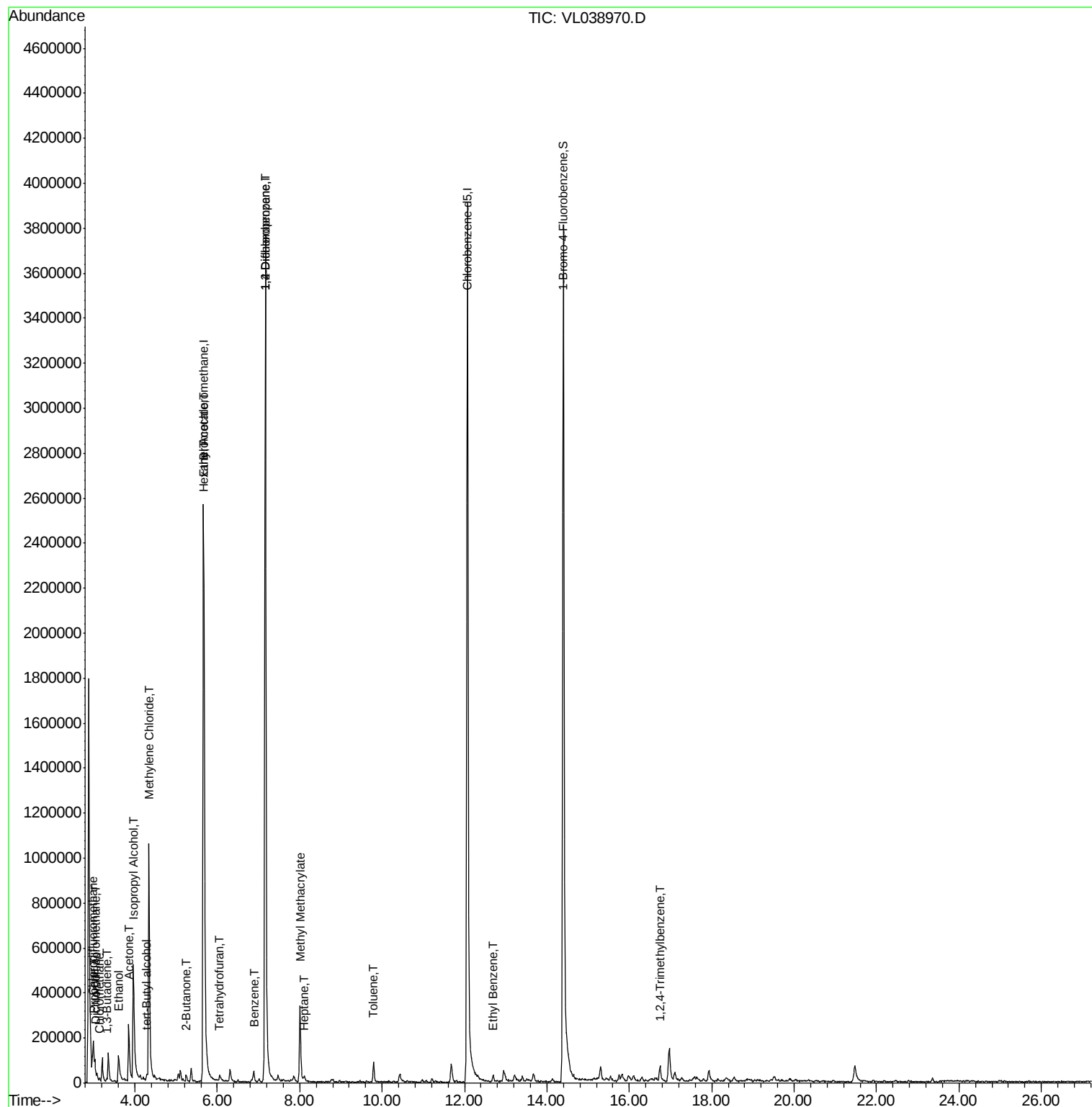
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	24697	0.122	ppbv #	87
3) Chlorodifluoromethane	2.99	51	263303	1.649	ppbv #	87
4) Chloromethane	3.14	50	10735	0.134	ppbv	92
9) Propene	3.01	41	7635	0.109	ppbv #	1
10) Heptane	8.11	43	5722	0.033	ppbv #	66
13) Ethanol	3.60	45	89684	16.468	ppbv #	36
15) Acetone	3.85	43	317359	2.614	ppbv	99
16) 1,3-Butadiene	3.32	39	2927	0.042	ppbv #	1
17) tert-Butyl alcohol	4.29	59	8285	0.089	ppbv #	70
19) Isopropyl Alcohol	3.96	45	743294	12.878	ppbv #	98
20) Methylene Chloride	4.34	84	416283	9.098	ppbv	99
25) Ethyl Acetate	5.68	43	374004	1.287	ppbv #	78
26) Hexane	5.68	57	533010	4.129	ppbv #	40
34) 2-Butanone	5.24	43	14519	0.095	ppbv #	1
36) Benzene	6.88	78	33487	0.130	ppbv	98
39) 1,2-Dichloropropane	7.16	63	846873	8.451	ppbv #	27
41) Tetrahydrofuran	6.06	42	7934	0.077	ppbv #	36
43) Methyl Methacrylate	8.01	69	141022	1.349	ppbv	91
53) Toluene	9.79	91	69092	0.239	ppbv	98
58) Ethyl Benzene	12.69	91	11568	0.031	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	32192	0.097	ppbv #	55

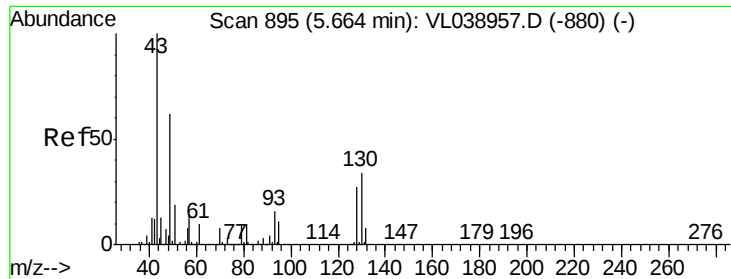
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 05 07:41:27 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: 2DL

Acq: 5 May 2022 13:20

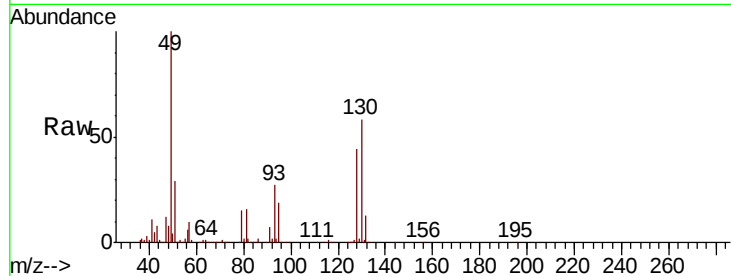
Tot Ion: 49 Resp: 1286942

Ion	Ratio	Lower	Upper
49	100		
128	45.2	23.3	69.8
130	59.5	29.8	89.3

49 100

128 45.2 23.3 69.8

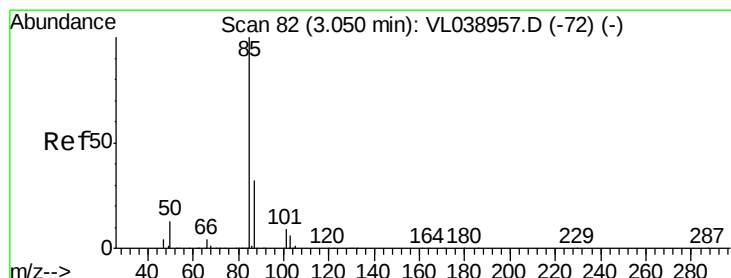
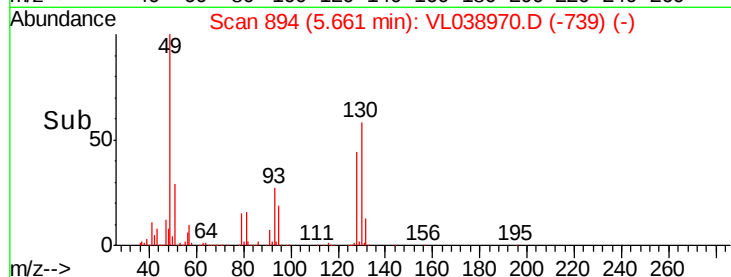
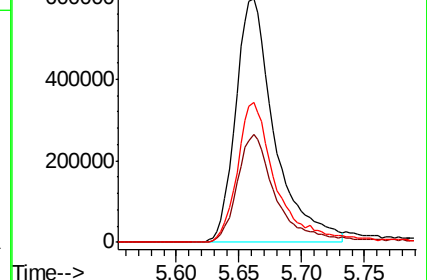
130 59.5 29.8 89.3



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: 0.122 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038970.D

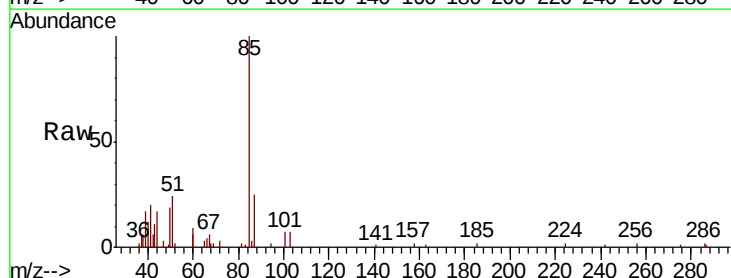
Acq: 5 May 2022 13:20

Tgt Ion: 85 Resp: 24697

Ion	Ratio	Lower	Upper
85	100		
87	24.7	25.7	38.5#

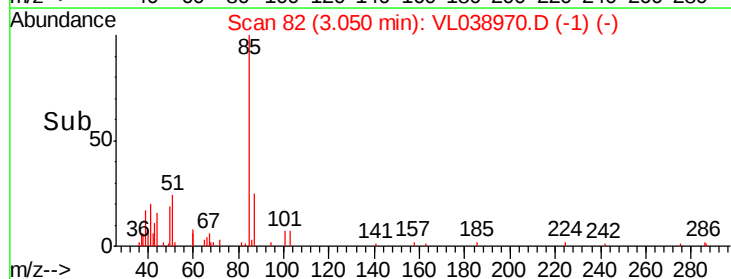
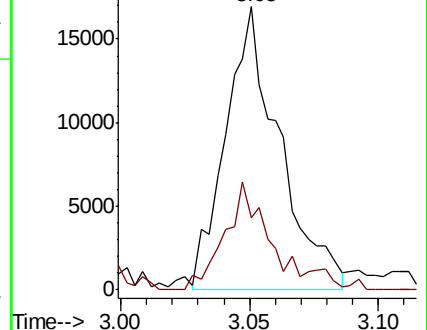
85 100

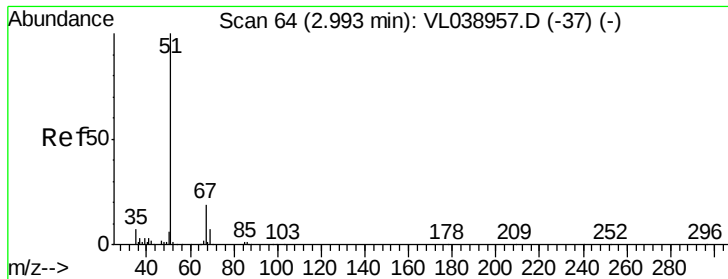
87 24.7 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.649 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

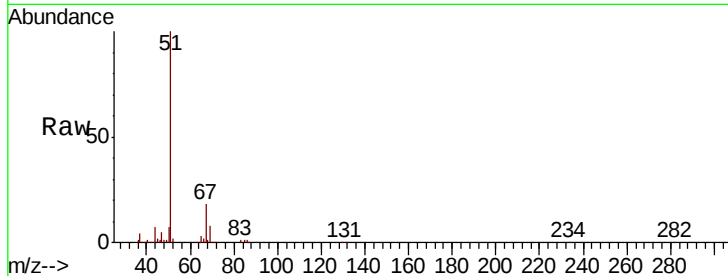
Acq: 5 May 2022 13:20

Tot Ion: 51 Resp: 263303

Ion Ratio Lower Upper

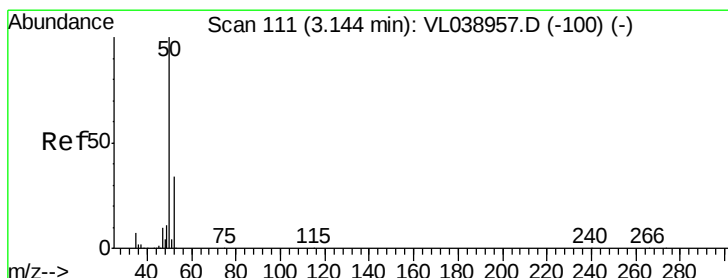
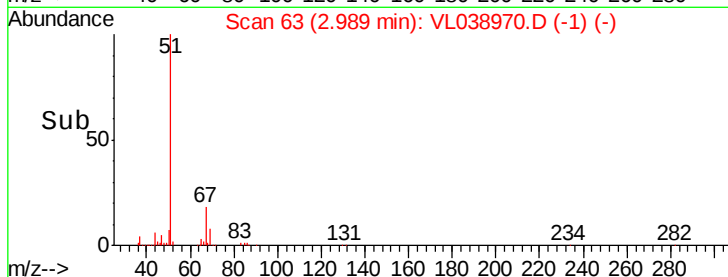
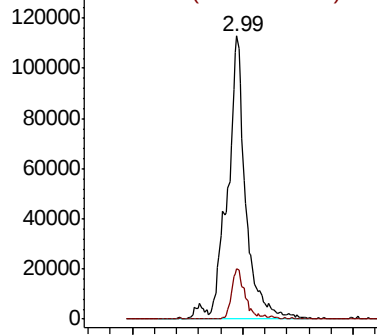
51 100

67 13.6 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.134 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038970.D

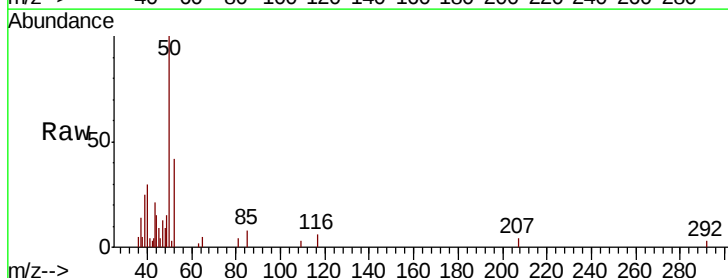
Acq: 5 May 2022 13:20

Tgt Ion: 50 Resp: 10735

Ion Ratio Lower Upper

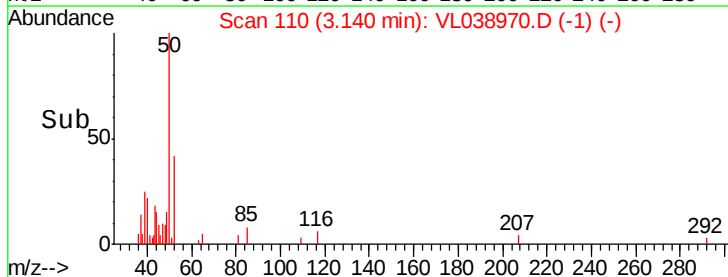
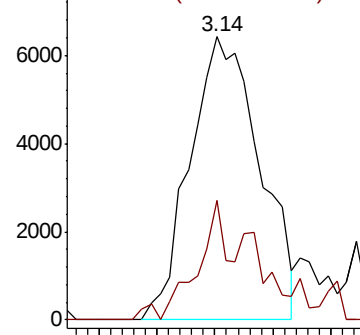
50 100

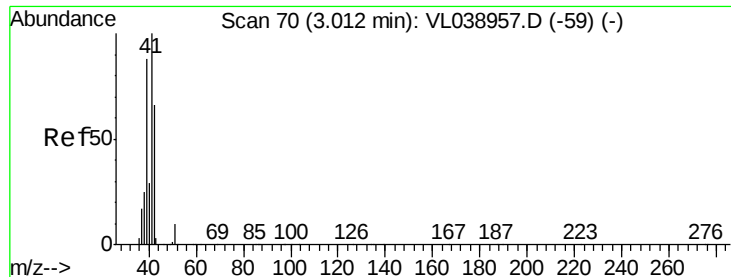
52 38.9 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

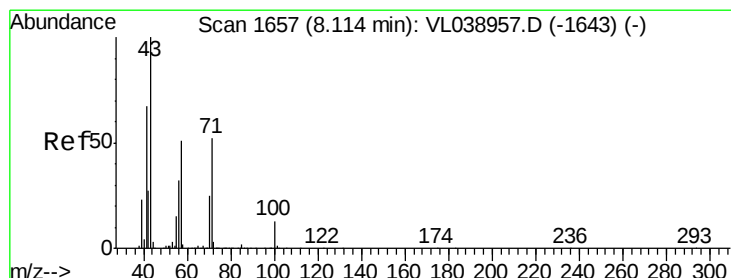
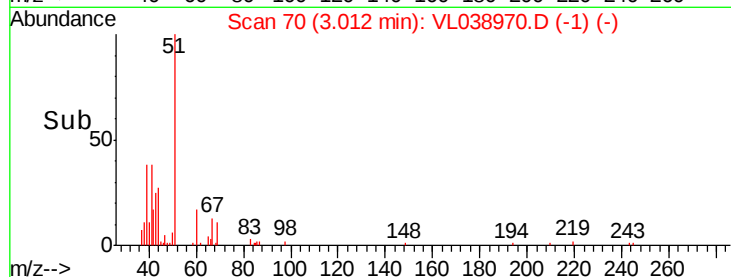
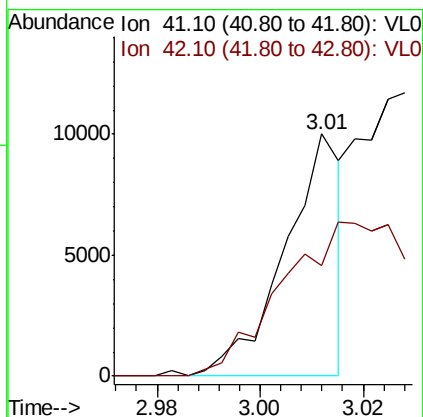
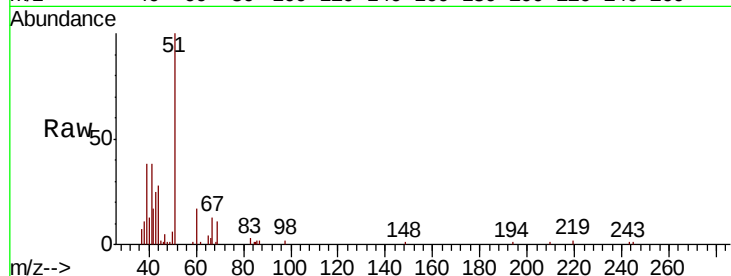
Ion 52.10 (51.80 to 52.80): VL0





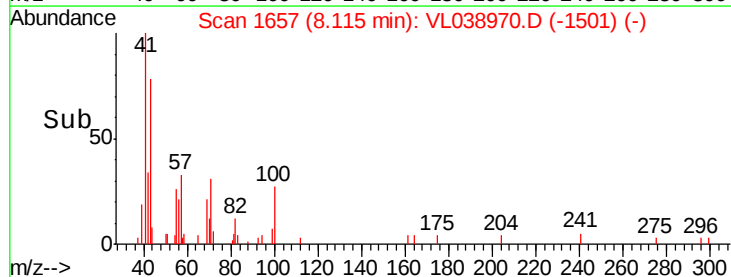
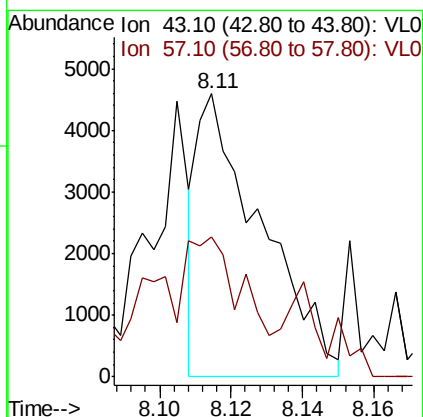
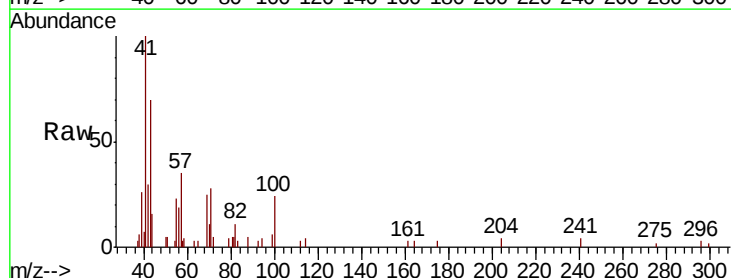
#9
 Propene
 Concen: 0.109 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 2DL
 Acq: 5 May 2022 13:20

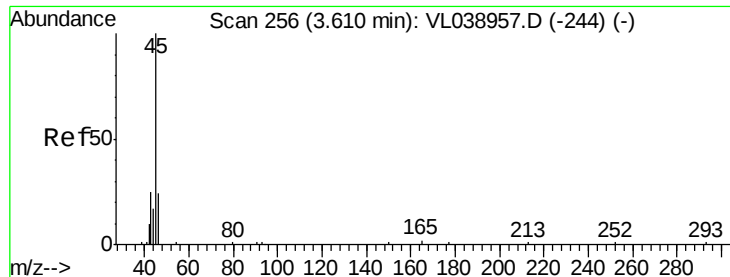
Tot Ion: 41 Resp: 7635
 Ion Ratio Lower Upper
 41 100
 42 184.7 58.3 87.5#



#10
 Heptane
 Concen: 0.033 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. 0.00 min
 Lab File: VL038970.D
 Acq: 5 May 2022 13:20

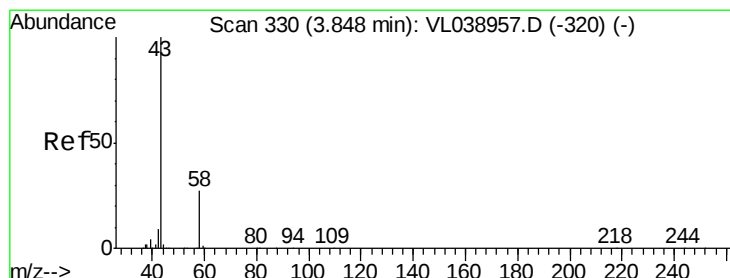
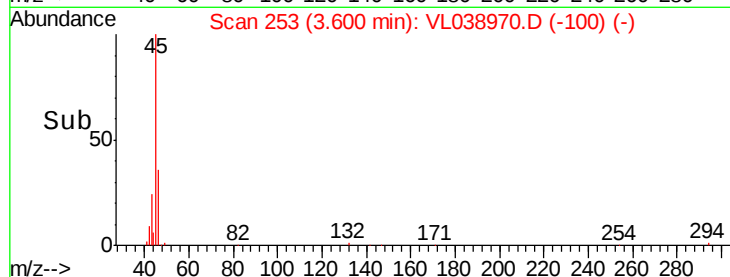
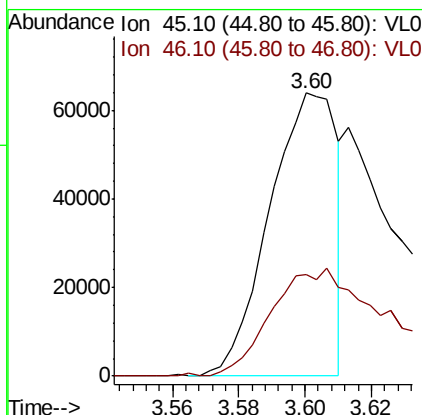
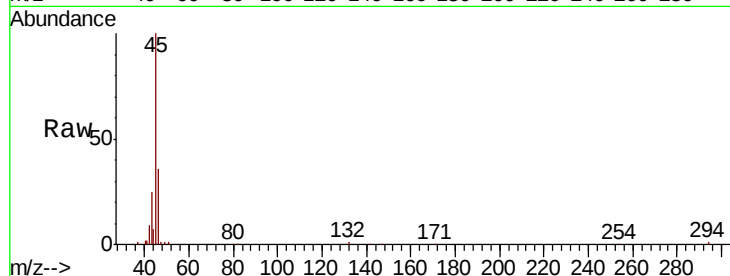
Tgt Ion: 43 Resp: 5722
 Ion Ratio Lower Upper
 43 100
 57 74.3 40.5 60.7#





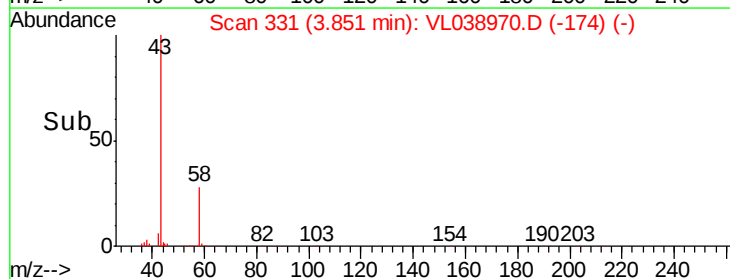
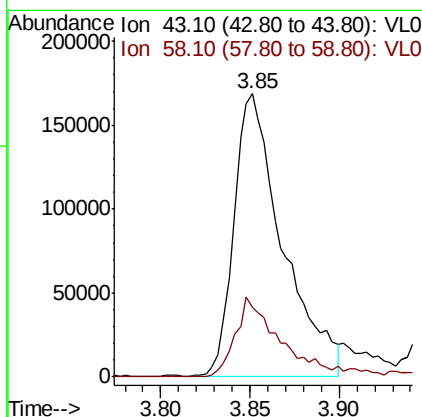
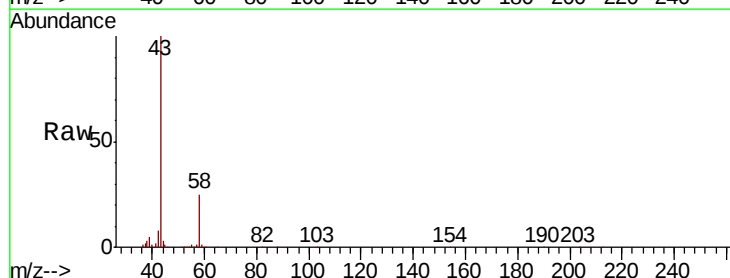
#13
 Ethanol
 Concen: 16.468 ppbv
 RT: 3.60
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 2DL
 Acq: 5 May 2022 13:20

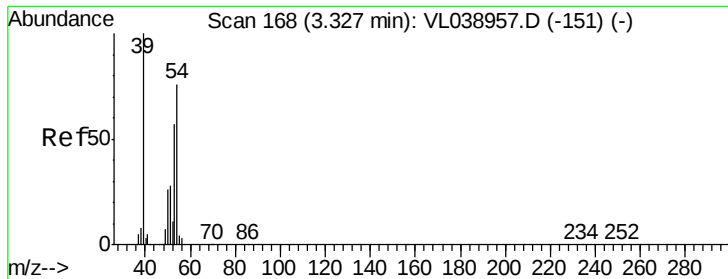
Tot Ion: 45 Resp: 89684
 Ion Ratio Lower Upper
 45 100
 46 86.9 18.0 72.2#



#15
 Acetone
 Concen: 2.614 ppbv
 RT: 3.85 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VL038970.D
 Acq: 5 May 2022 13:20

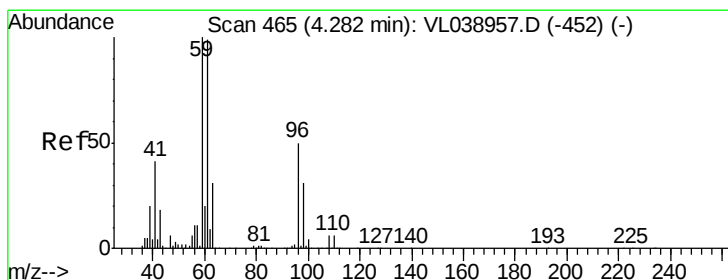
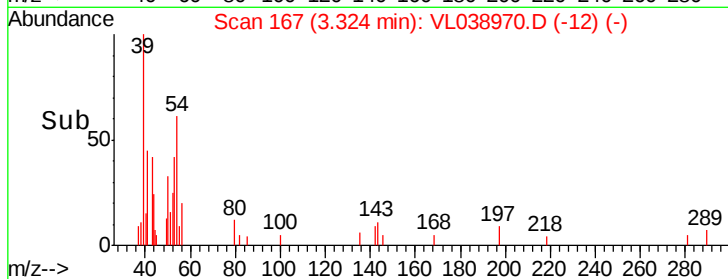
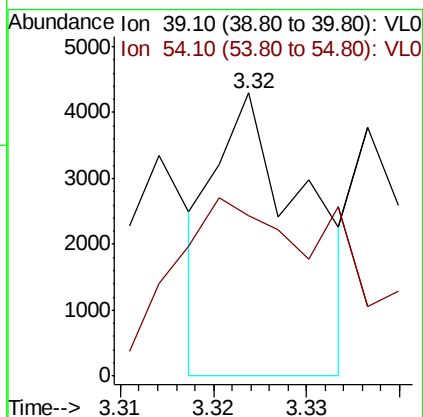
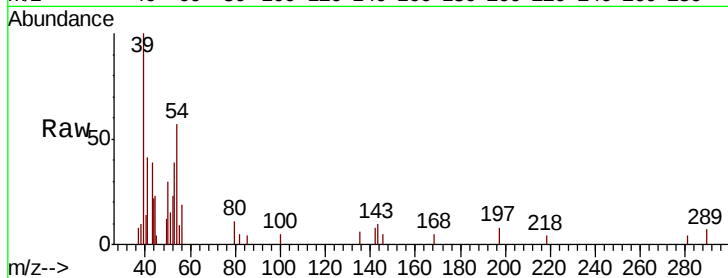
Tgt Ion: 43 Resp: 317359
 Ion Ratio Lower Upper
 43 100
 58 27.3 21.3 31.9





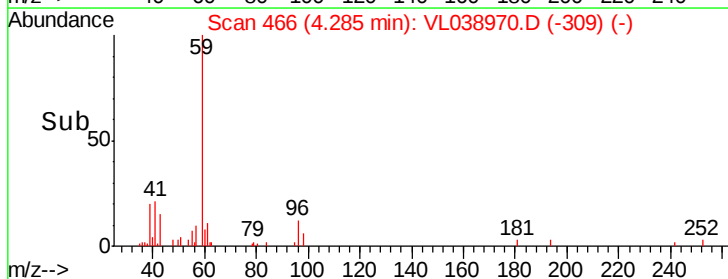
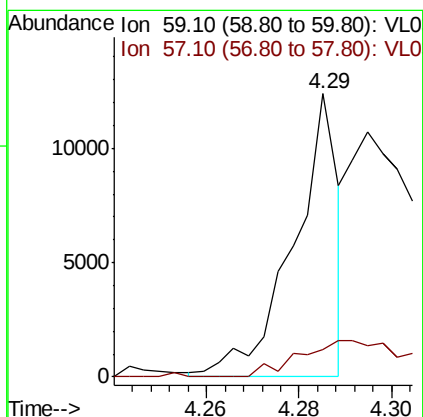
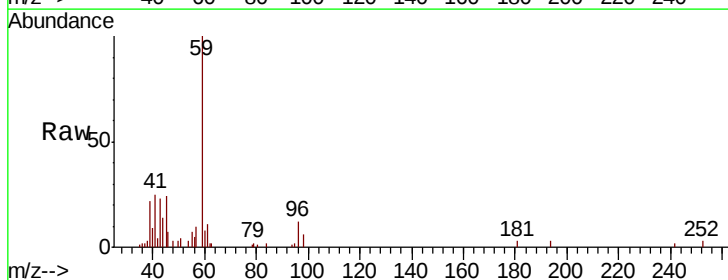
#16
 1,3-Butadiene
 Concen: 0.042 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 2DL
 Acq: 5 May 2022 13:20

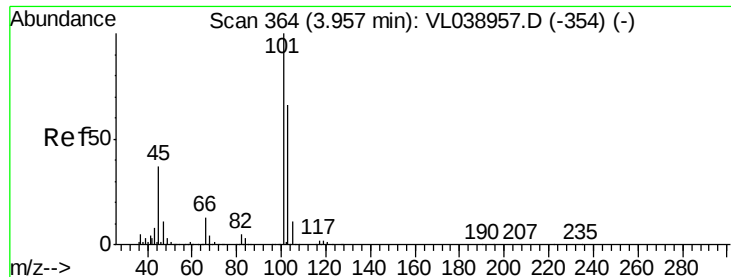
Tot Ion: 39 Resp: 2927
 Ion Ratio Lower Upper
 39 100
 54 177.9 65.2 97.8#



#17
 tert-Butyl alcohol
 Concen: 0.089 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. 0.00 min
 Lab File: VL038970.D
 Acq: 5 May 2022 13:20

Tgt Ion: 59 Resp: 8285
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.2 13.8#





#19

Isopropyl Alcohol

Concen: 12.878 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

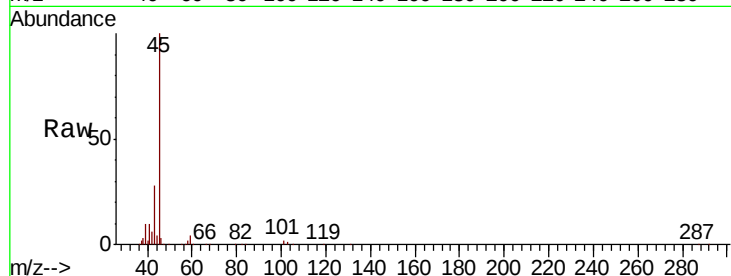
Acq: 5 May 2022 13:20

Tot Ion: 45 Resp: 743294

Ion Ratio Lower Upper

45 100

58 2.7 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

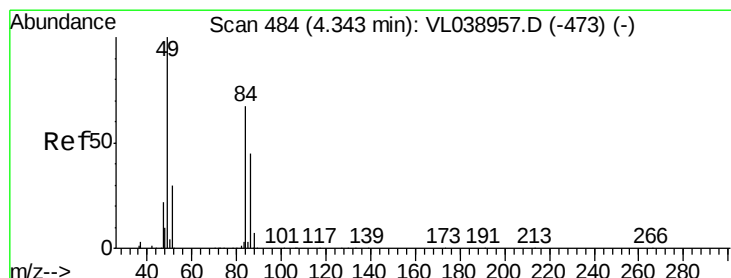
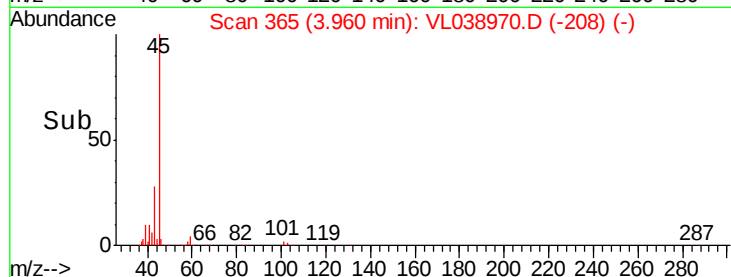
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.098 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL038970.D

Acq: 5 May 2022 13:20

Tgt Ion: 84 Resp: 416283

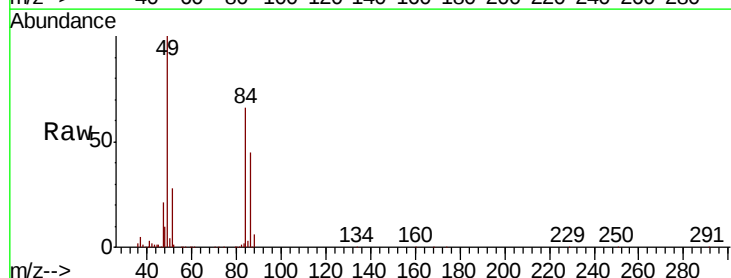
Ion Ratio Lower Upper

84 100

49 150.4 119.9 179.9

51 41.9 35.7 53.5

86 68.2 53.8 80.6



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

500000

400000

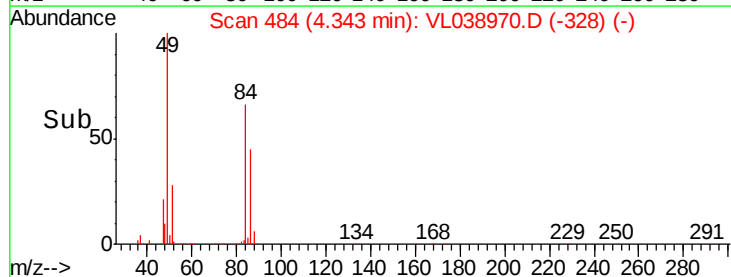
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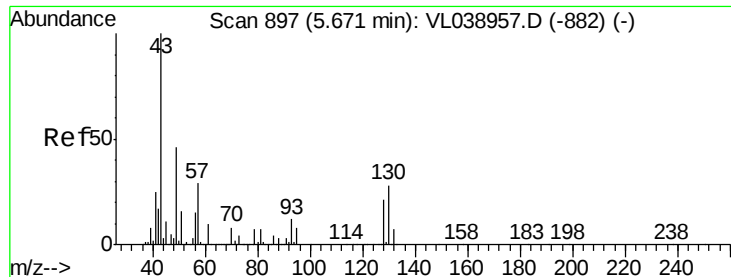
200000

100000

0

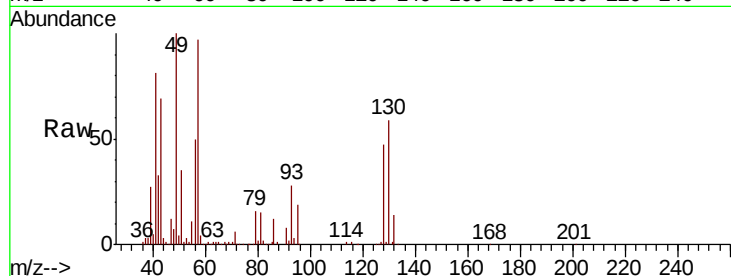
Time-->



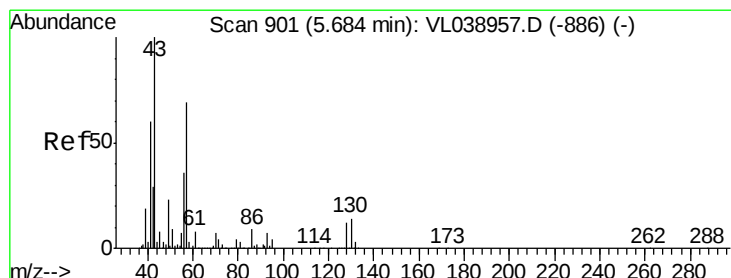
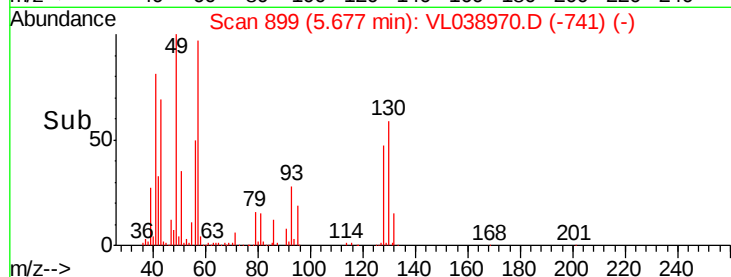
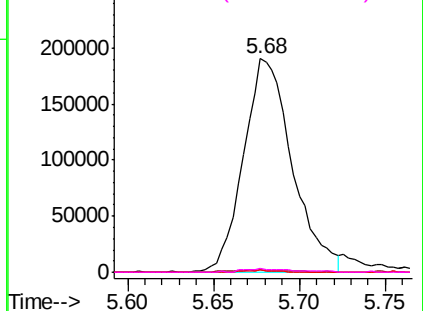


#25
Ethyl Acetate
Concen: 1.287 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 13:20

Tot Ion:	43	Resp:	374004
Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.1	12.1#
61	0.8	7.8	11.6#
70	1.8	5.6	8.4#

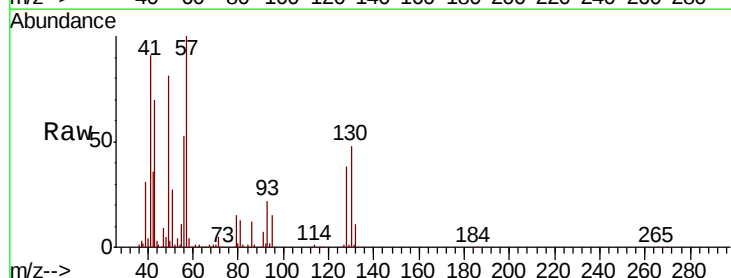


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

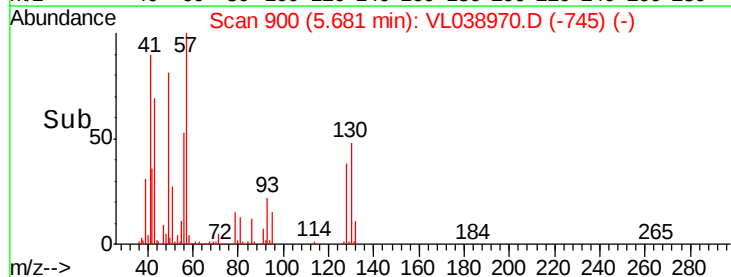
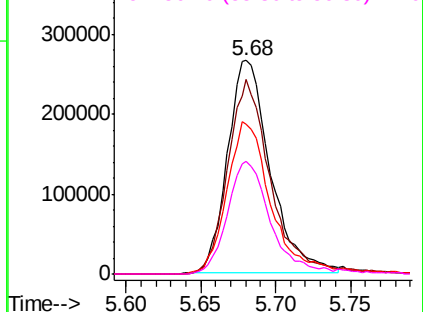


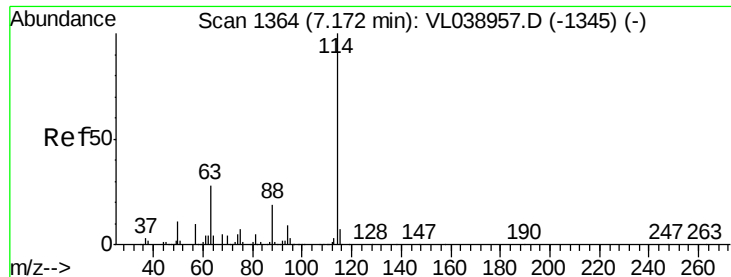
#26
Hexane
Concen: 4.129 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL038970.D
Acq: 5 May 2022 13:20

Tgt Ion:	57	Resp:	533010
Ion	Ratio	Lower	Upper
57	100		
41	92.2	75.2	112.8
43	75.0	190.8	286.2#
56	54.1	43.0	64.6



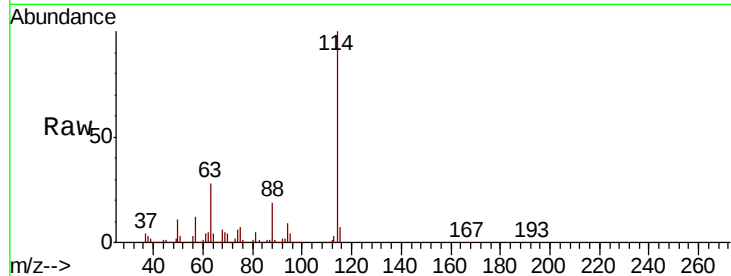
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



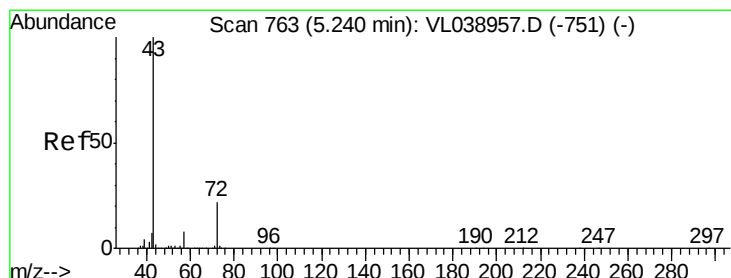
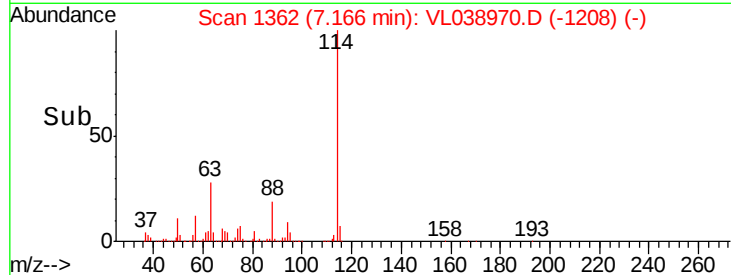
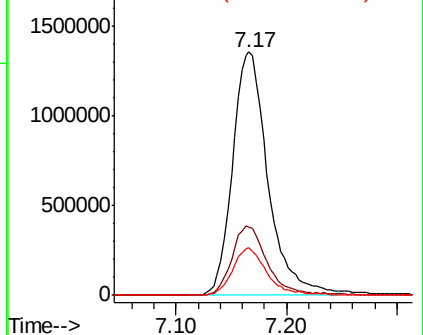


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 13:20

Tot Ion:114 Resp: 3009428
 Ion Ratio Lower Upper
 114 100
 63 29.0 22.6 33.8
 88 19.3 15.4 23.0

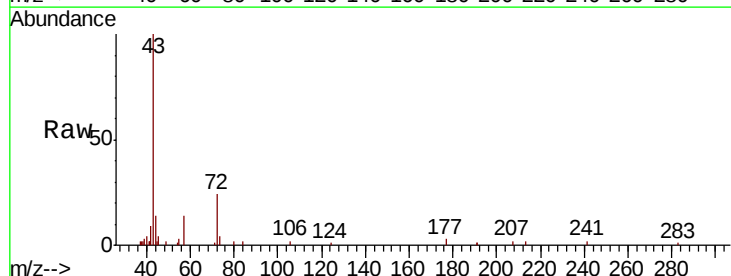


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

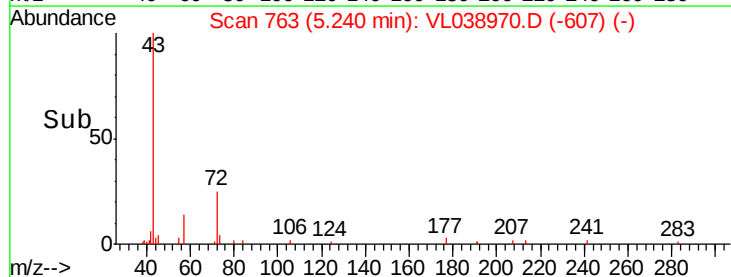
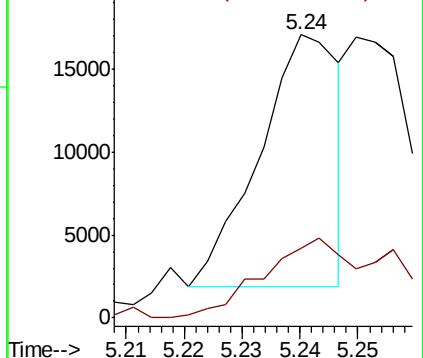


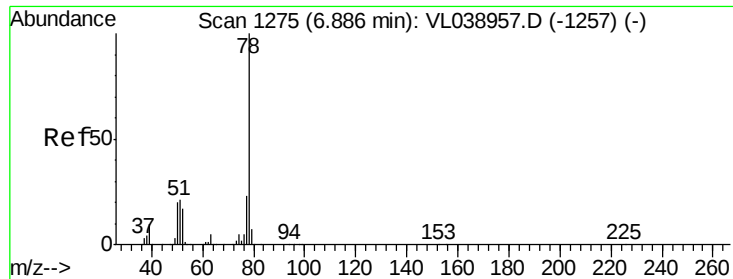
#34
 2-Butanone
 Concen: 0.095 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: VL038970.D
 Acq: 5 May 2022 13:20

Tgt Ion: 43 Resp: 14519
 Ion Ratio Lower Upper
 43 100
 72 72.5 17.8 26.6#



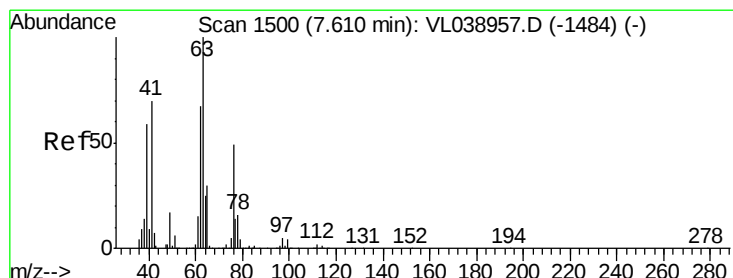
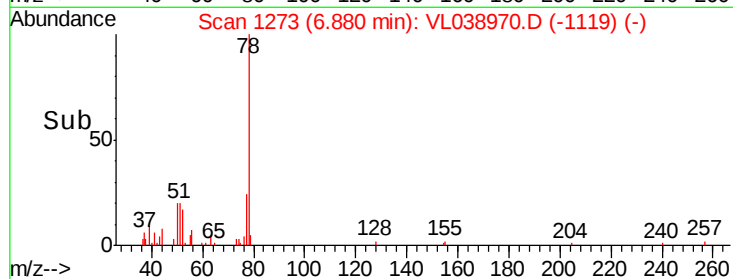
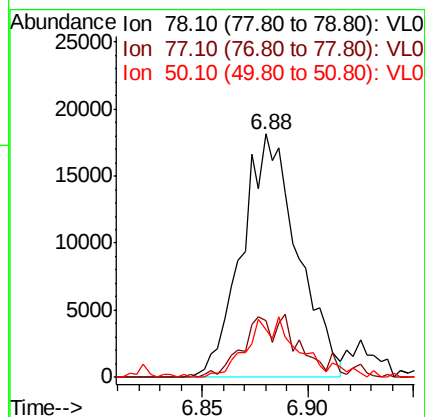
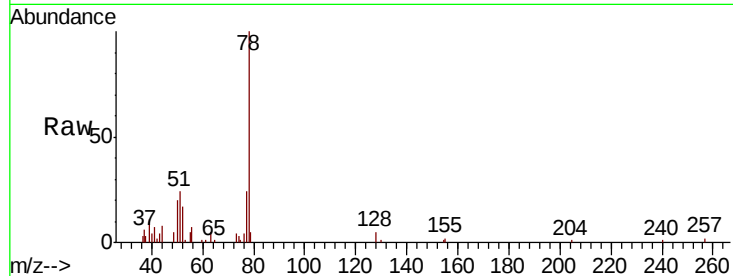
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





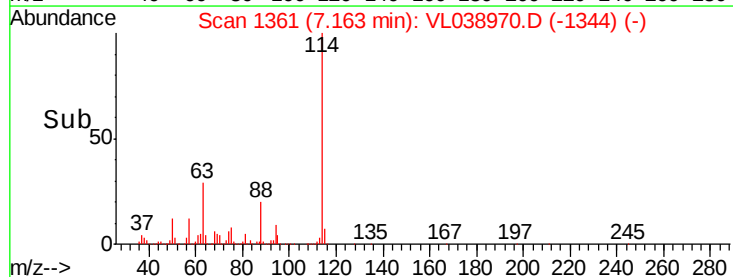
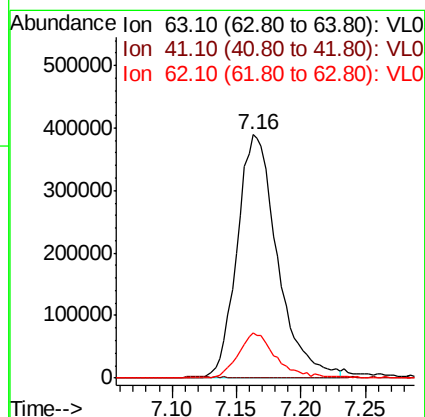
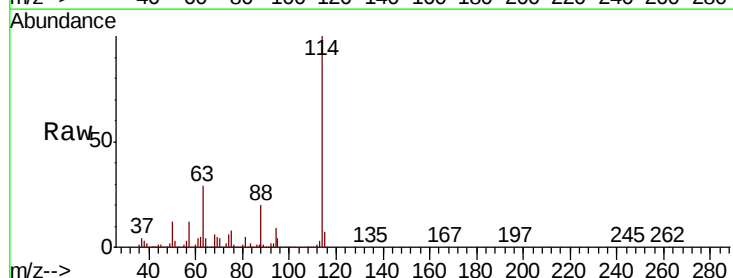
#36
Benzene
Concen: 0.130 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 13:20

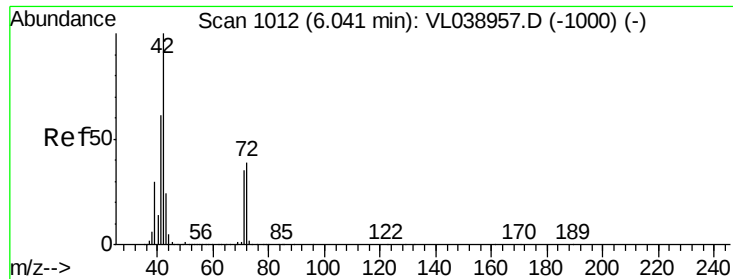
Tot Ion	78	Resp	33487
Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.6	28.0
50	19.8	15.6	23.4



#39
1,2-Dichloropropane
Concen: 8.451 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.45 min
Lab File: VL038970.D
Acq: 5 May 2022 13:20

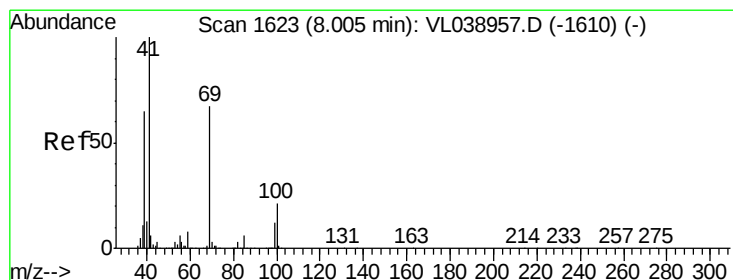
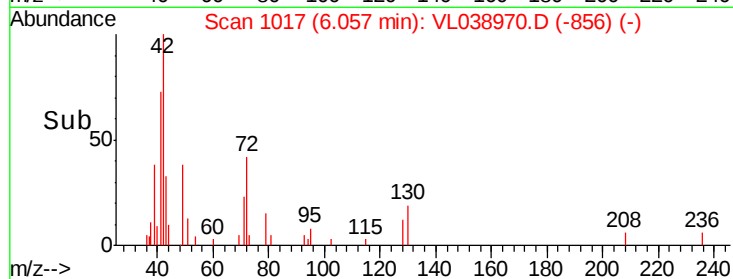
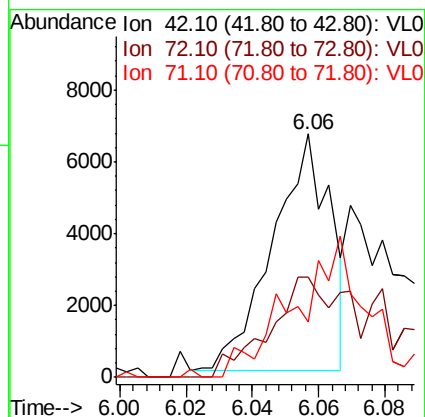
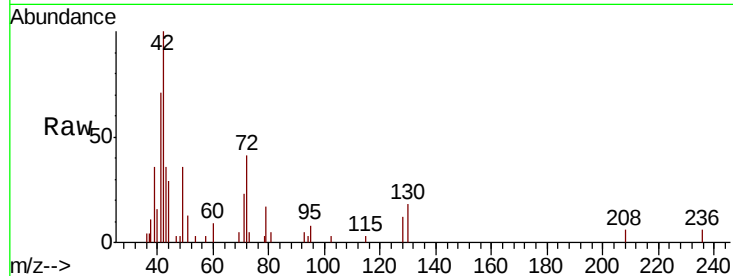
Tgt Ion	63	Resp	846873
Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	18.5	53.8	80.6#





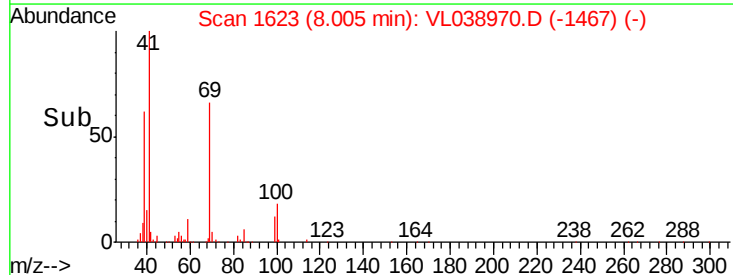
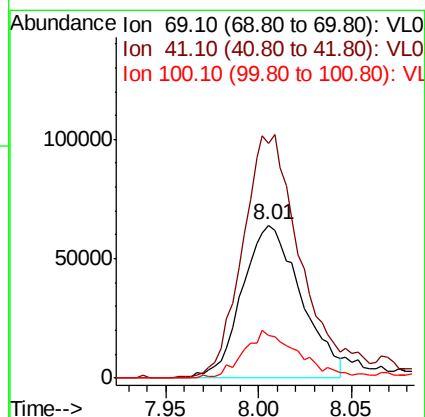
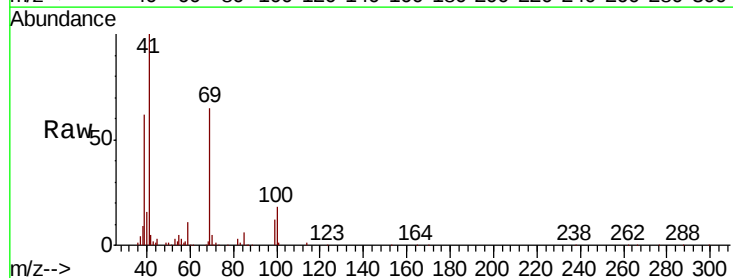
#41
Tetrahydrofuran
Concen: 0.077 ppbv
RT: 6.06
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 13:20

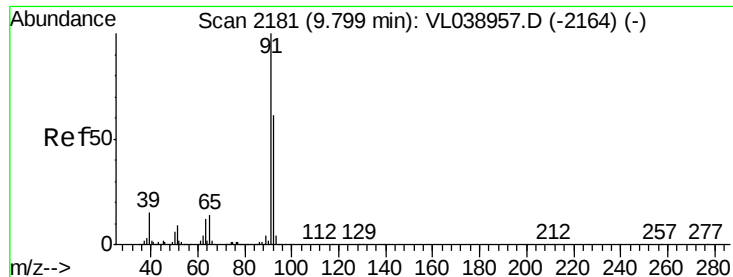
Tot Ion: 42 Resp: 7934
Ion Ratio Lower Upper
42 100
72 79.8 31.8 47.6#
71 0.0 30.6 45.8#



#43
Methyl Methacrylate
Concen: 1.349 ppbv
RT: 8.01 min Scan# 1623
Delta R.T.: 0.00 min
Lab File: VL038970.D
Acq: 5 May 2022 13:20

Tgt Ion: 69 Resp: 141022
Ion Ratio Lower Upper
69 100
41 165.6 121.9 182.9
100 31.3 24.6 36.8





#53

Toluene

Concen: 0.239 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

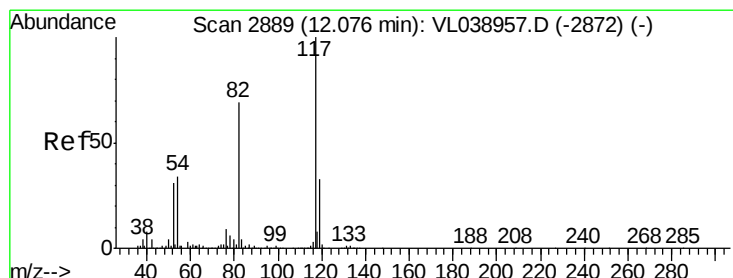
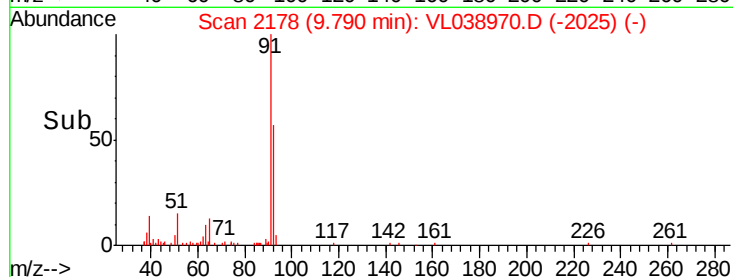
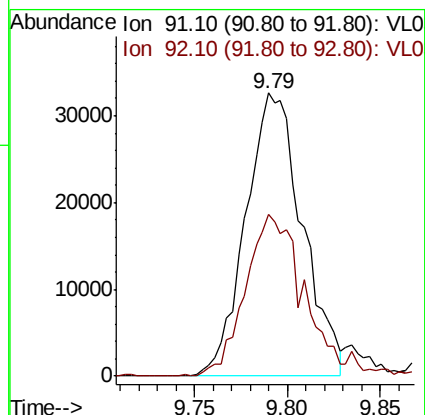
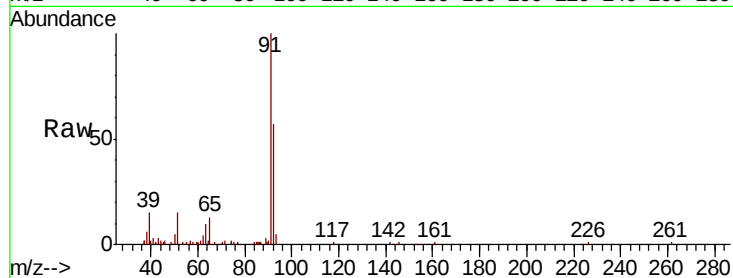
Acq: 5 May 2022 13:20

Tot Ion: 91 Resp: 69092

Ion Ratio Lower Upper

91 100

92 61.8 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL038970.D

Acq: 5 May 2022 13:20

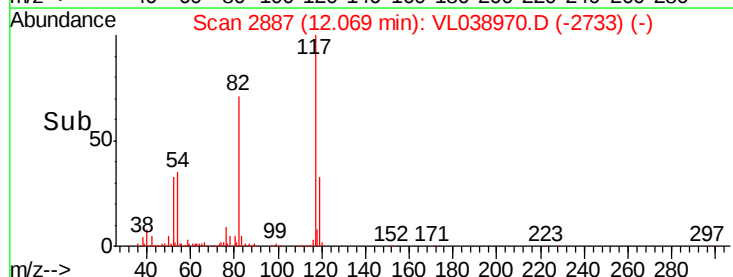
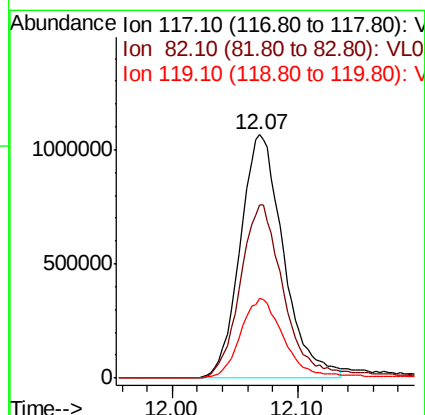
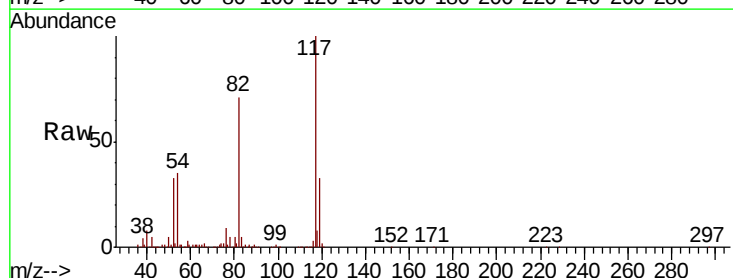
Tgt Ion: 117 Resp: 2557190

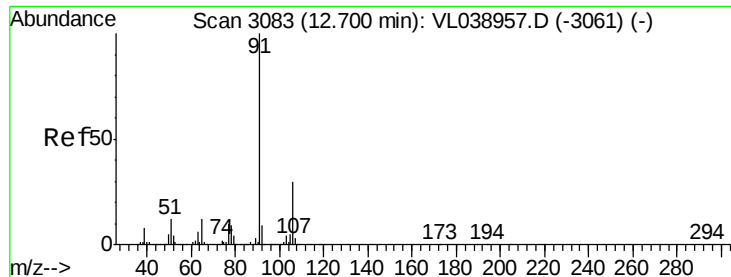
Ion Ratio Lower Upper

117 100

82 75.9 57.0 85.6

119 34.1 27.2 40.8





#58

Ethyl Benzene

Concen: 0.031 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

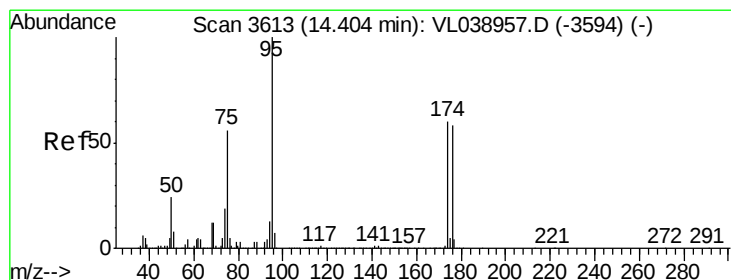
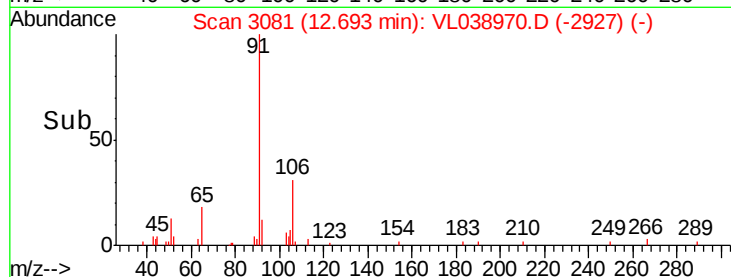
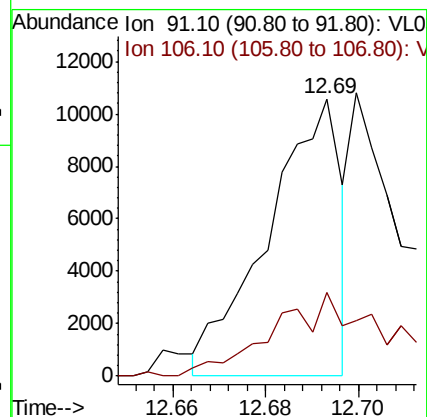
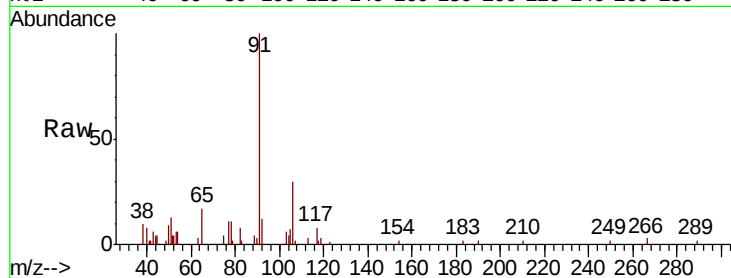
Acq: 5 May 2022 13:20

Tot Ion: 91 Resp: 11568

Ion Ratio Lower Upper

91 100

106 29.5 24.2 36.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. -0.01 min

Lab File: VL038970.D

Acq: 5 May 2022 13:20

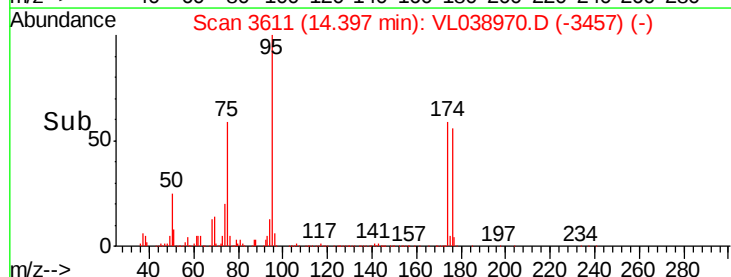
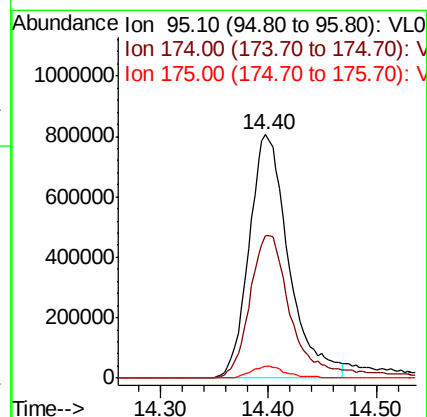
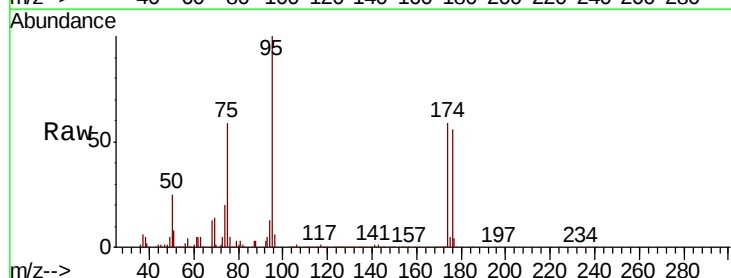
Tgt Ion: 95 Resp: 2062000

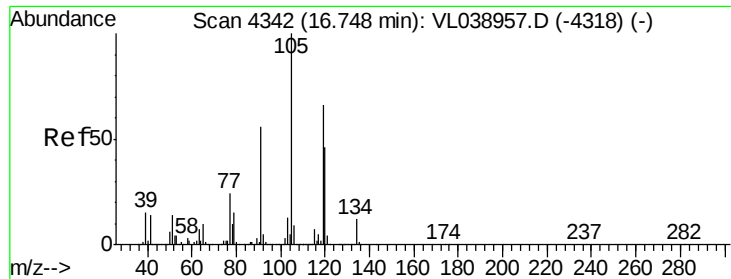
Ion Ratio Lower Upper

95 100

174 64.3 50.8 76.2

175 4.5 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.097 ppbv
 RT: 16.74
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 2DL
 Acq: 5 May 2022 15:20

Tot Ion:	105	Resp:	32192
Ion Ratio	Lower	Upper	
105	100		
120	26.5	36.9	55.3#
91	8.5	45.0	67.4#
77	11.2	19.2	28.8#

