

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038972.D
 Acq On : 5 May 2022 14:40
 Operator : SY/AP
 Sample : N2698-01DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: May 06 07:28:17 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1307372	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3402933	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2977161	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2288531	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

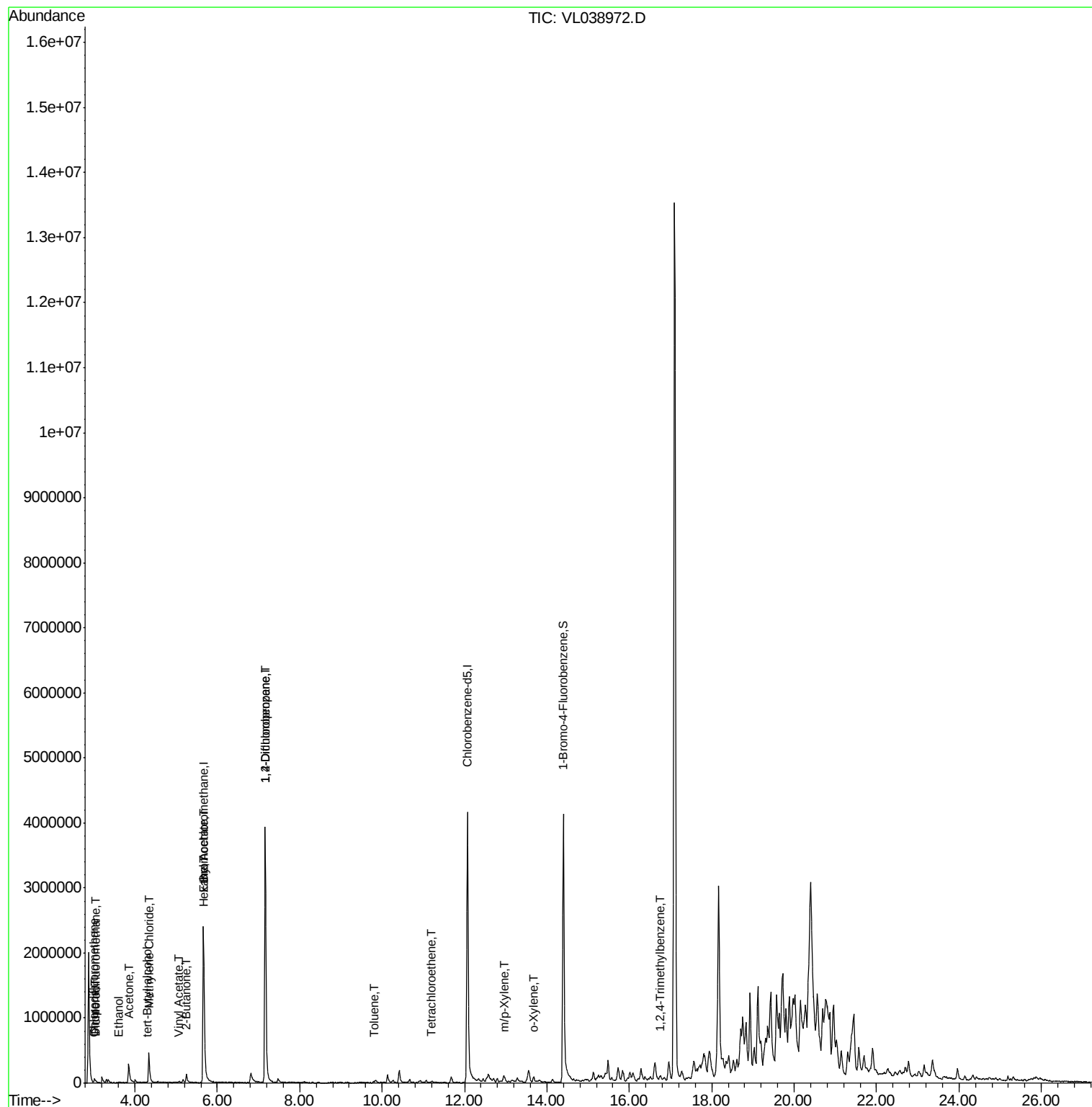
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	13618	0.066 ppbv	96
3) Chlorodifluoromethane	2.99	51	12393	0.076 ppbv	98
9) Propene	3.02	41	10715	0.151 ppbv #	62
13) Ethanol	3.61	45	7761	1.403 ppbv #	55
15) Acetone	3.85	43	414100	3.358 ppbv #	89
17) tert-Butyl alcohol	4.30	59	2943	0.031 ppbv #	70
20) Methylene Chloride	4.34	84	181556	3.906 ppbv	95
23) Vinyl Acetate	5.07	43	17031	0.175 ppbv #	92
25) Ethyl Acetate	5.68	43	190171	0.644 ppbv #	76
26) Hexane	5.68	57	269432	2.054 ppbv #	39
34) 2-Butanone	5.25	43	177287	1.021 ppbv #	89
39) 1,2-Dichloropropane	7.16	63	882766	7.791 ppbv #	25
52) Tetrachloroethene	11.21	164	4132	0.040 ppbv #	55
53) Toluene	9.80	91	14338	0.044 ppbv #	74
59) m/p-Xylene	12.98	91	27632	0.076 ppbv #	33
60) o-Xylene	13.68	91	11324	0.033 ppbv #	32
74) 1,2,4-Trimethylbenzene	16.74	105	18468	0.048 ppbv #	71

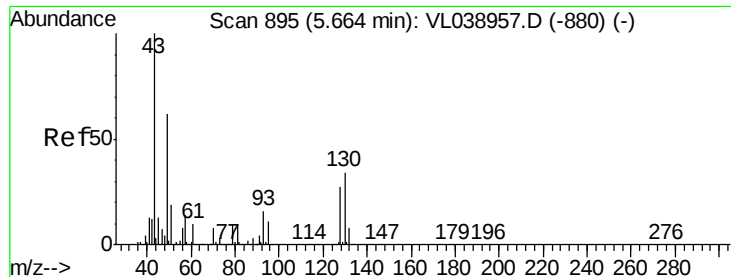
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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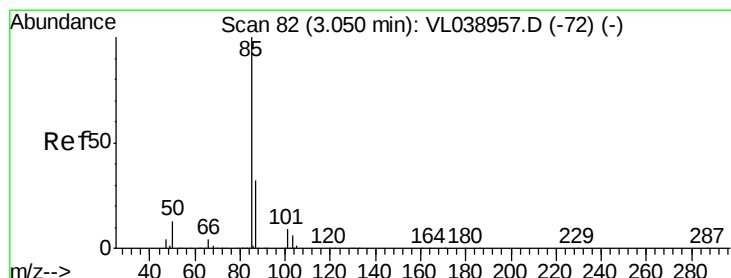
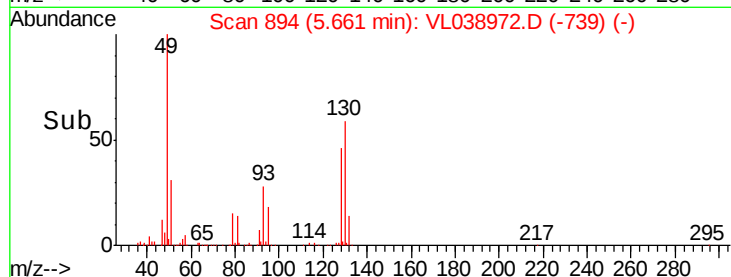
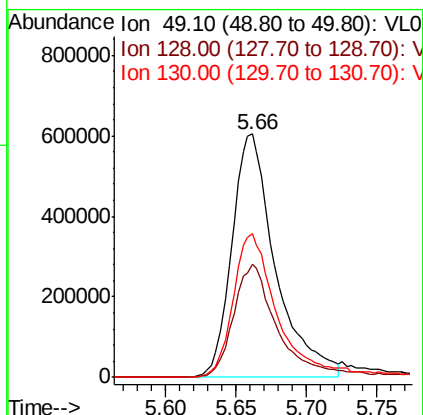
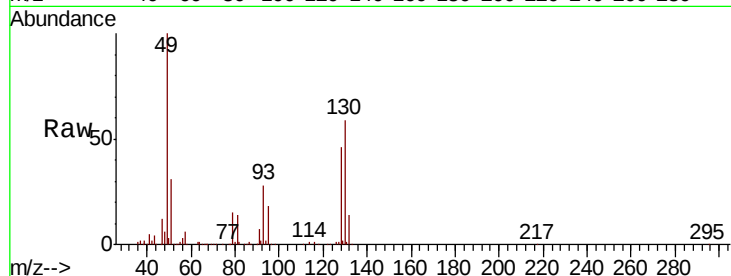
Quant Time: May 06 07:28:17 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
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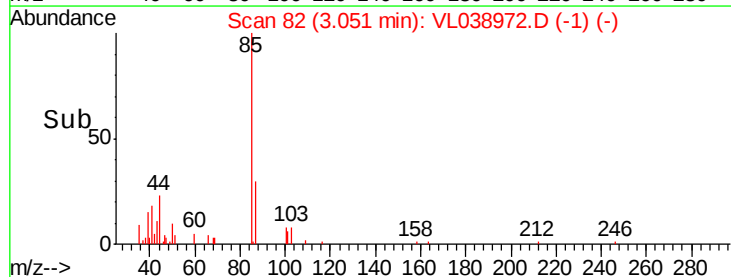
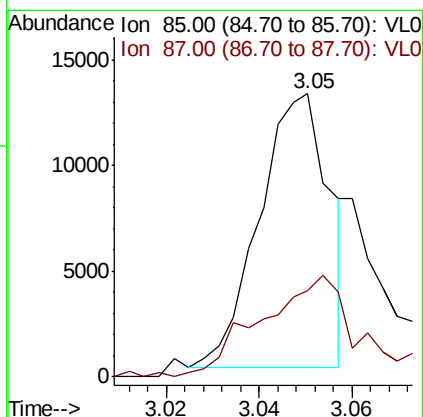
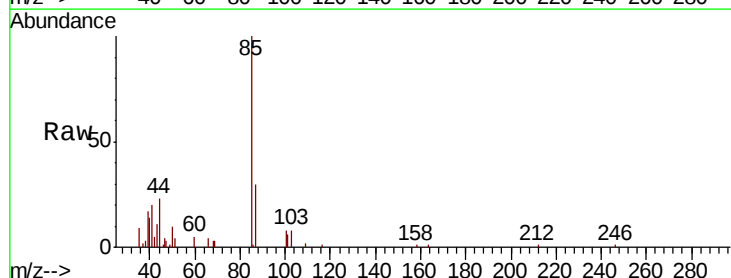
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SV1DL
 Acq: 5 May 2022 14:40

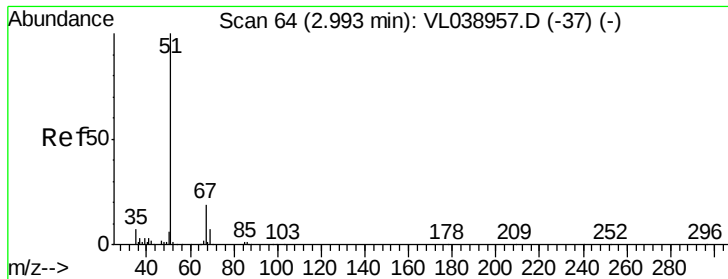
Tot Ion: 49 Resp: 1307372
 Ion Ratio Lower Upper
 49 100
 128 48.9 23.3 69.8
 130 63.0 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.066 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VL038972.D
 Acq: 5 May 2022 14:40

Tgt Ion: 85 Resp: 13618
 Ion Ratio Lower Upper
 85 100
 87 29.8 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.076 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1DL

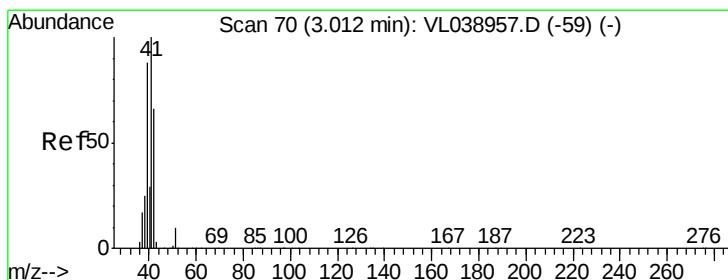
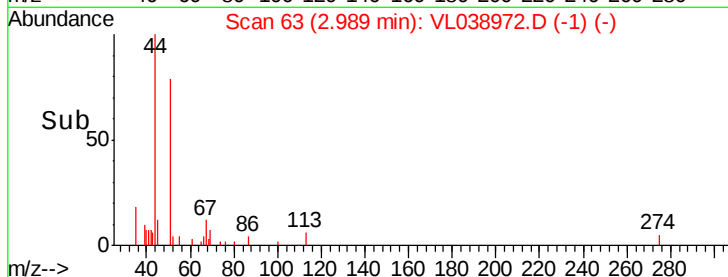
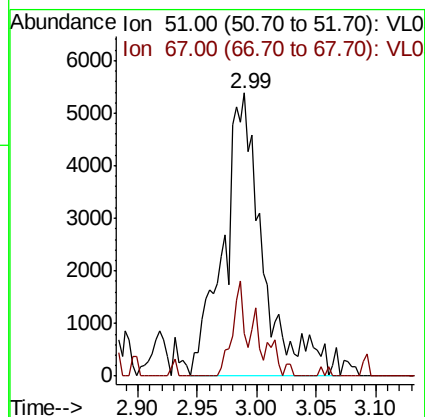
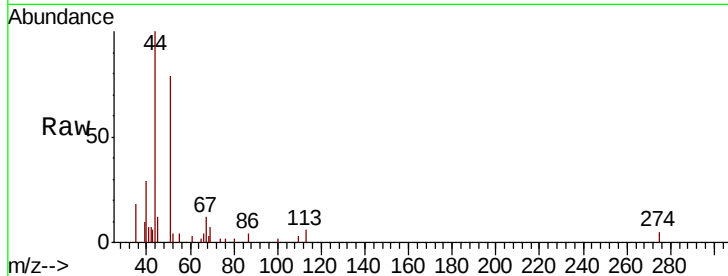
Acq: 5 May 2022 14:40

Tot Ion: 51 Resp: 12393

Ion Ratio Lower Upper

51 100

67 18.8 15.8 23.8



#9

Propene

Concen: 0.151 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL038972.D

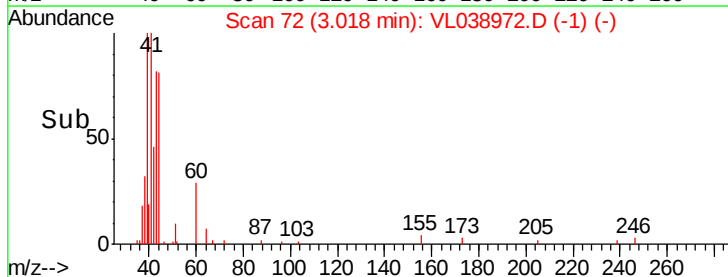
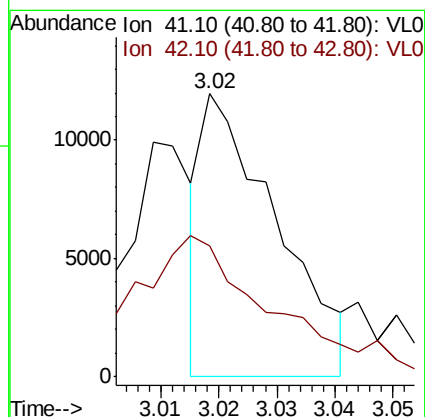
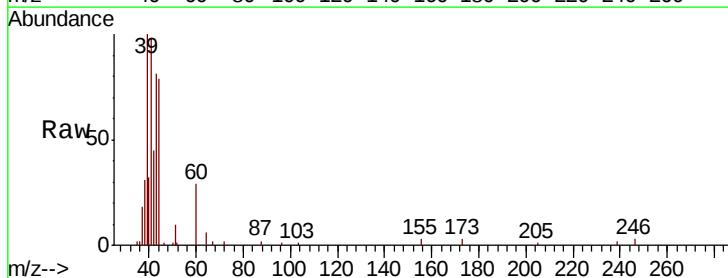
Acq: 5 May 2022 14:40

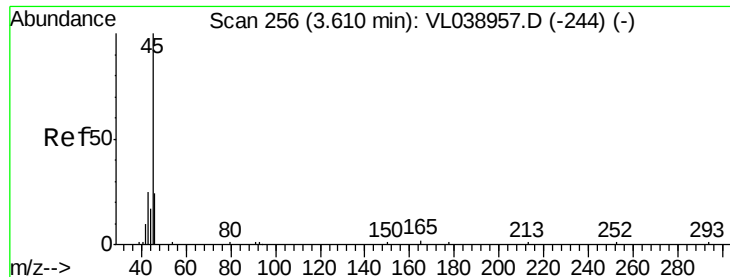
Tgt Ion: 41 Resp: 10715

Ion Ratio Lower Upper

41 100

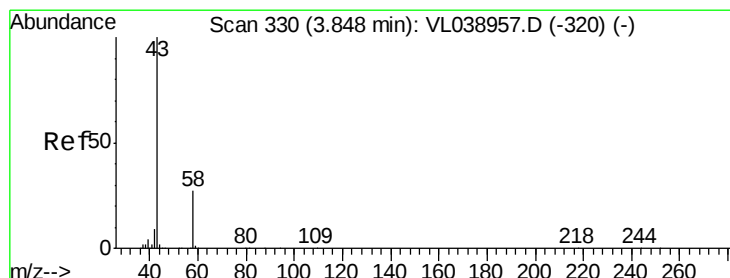
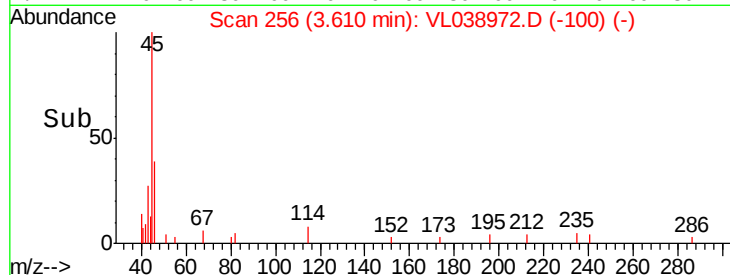
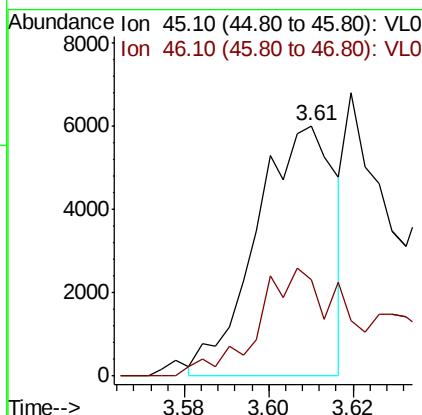
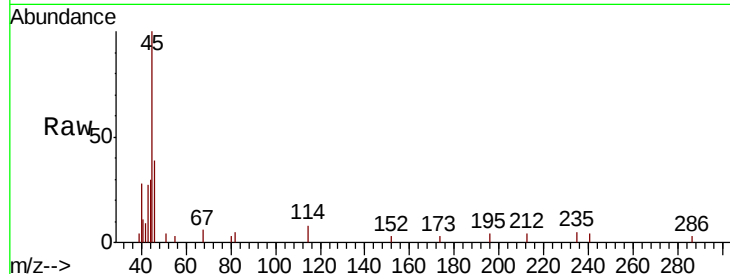
42 104.9 58.3 87.5#





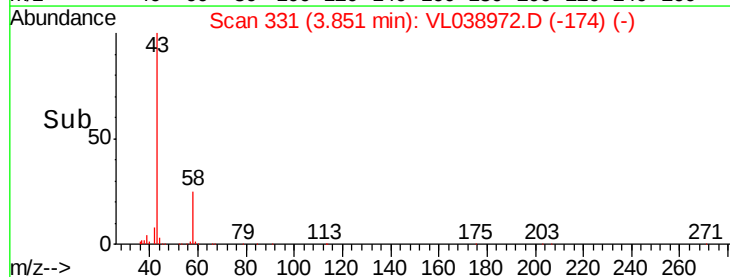
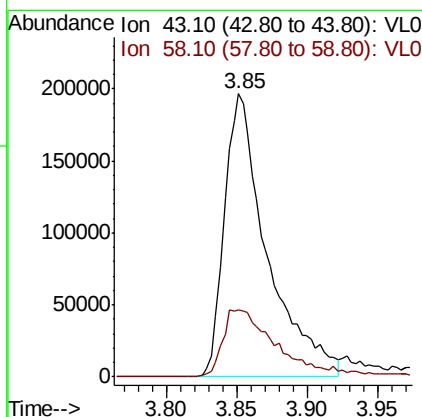
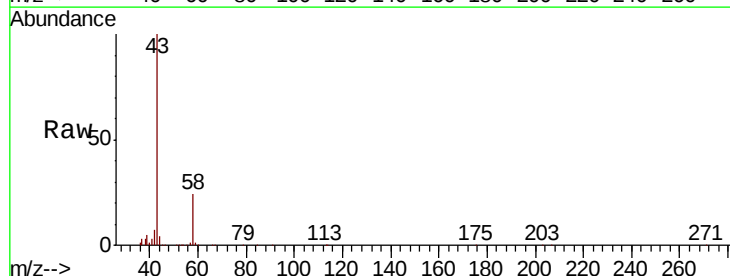
#13
Ethanol
Concen: 1.403 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 5 May 2022 14:40

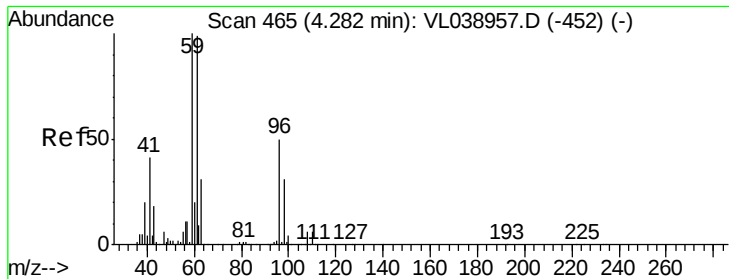
Tot Ion: 45 Resp: 7761
Ion Ratio Lower Upper
45 100
46 74.5 18.0 72.2#



#15
Acetone
Concen: 3.358 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL038972.D
Acq: 5 May 2022 14:40

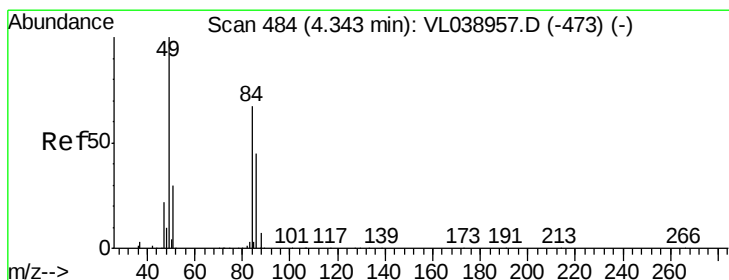
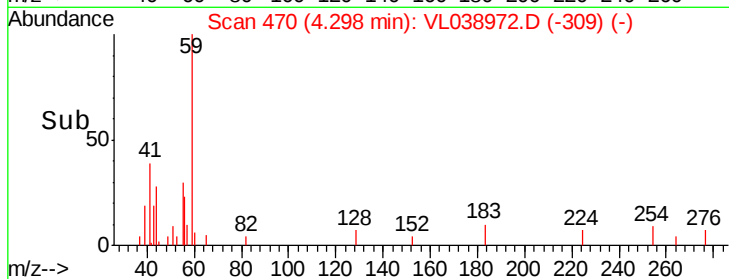
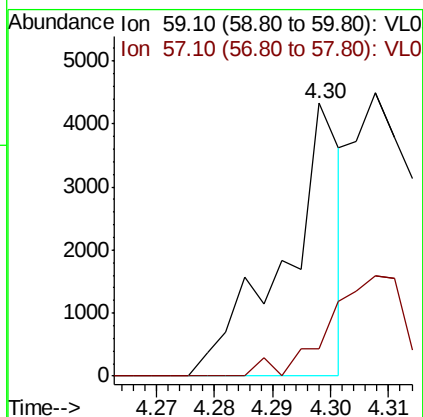
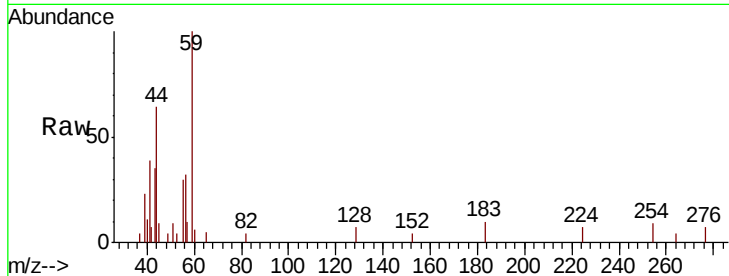
Tgt Ion: 43 Resp: 414100
Ion Ratio Lower Upper
43 100
58 32.1 21.3 31.9#





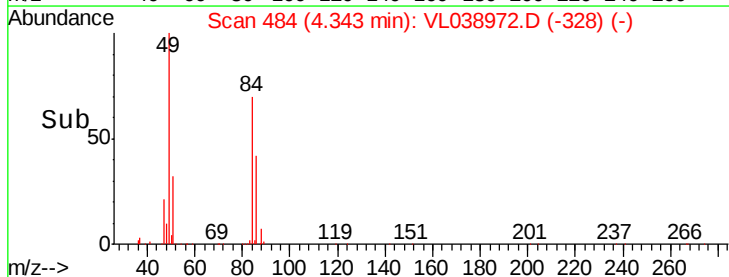
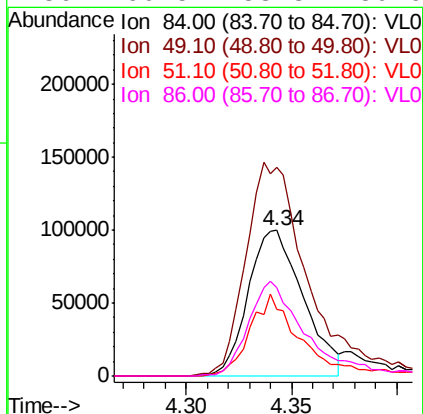
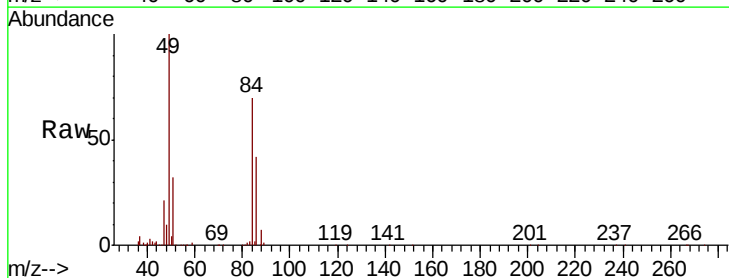
#17
 tert-Butyl alcohol
 Concen: 0.031 ppbv
 RT: 4.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 5 May 2022 14:40

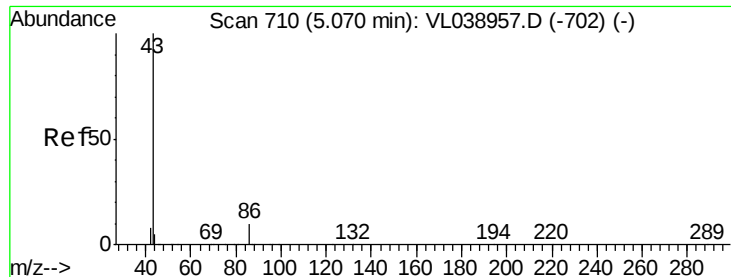
Tot Ion: 59 Resp: 2943
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.2 13.8#



#20
 Methylene Chloride
 Concen: 3.906 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. 0.00 min
 Lab File: VL038972.D
 Acq: 5 May 2022 14:40

Tgt Ion: 84 Resp: 181556
 Ion Ratio Lower Upper
 84 100
 49 143.2 119.9 179.9
 51 45.7 35.7 53.5
 86 60.5 53.8 80.6





#23

Vinyl Acetate

Concen: 0.175 ppbv

RT: 5.07 Instrument:

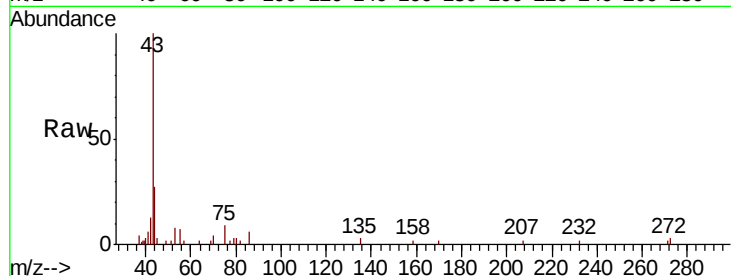
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:40 SV1DL

Tot Ion: 43 Resp: 17031

Ion	Ratio	Lower	Upper
43	100		
86	6.6	6.6	9.8
42	4.8	8.1	12.1#
44	4.2	3.5	5.3

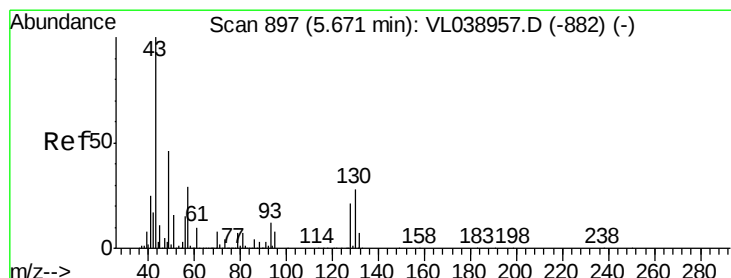
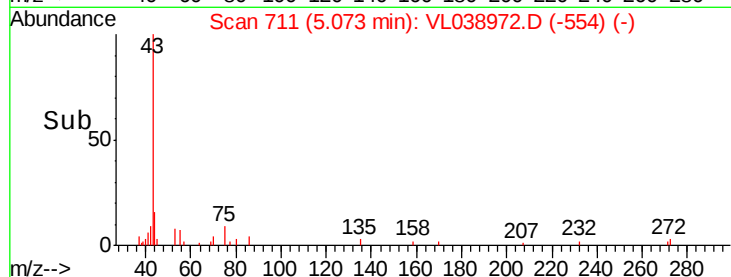
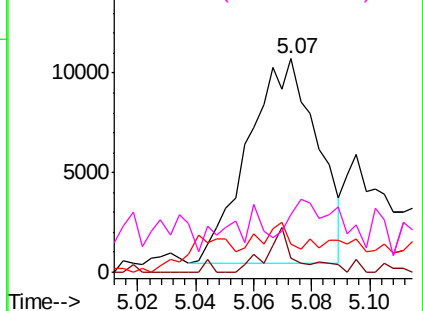


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.644 ppbv

RT: 5.68 min Scan# 899

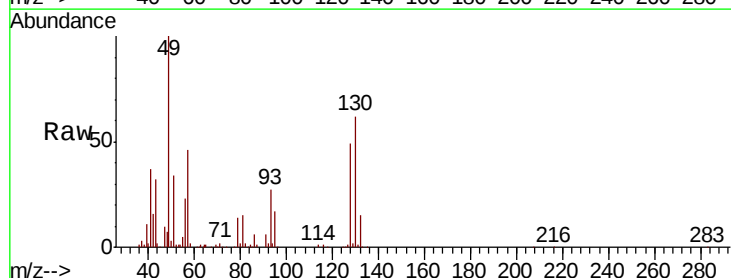
Delta R.T. 0.01 min

Lab File: VL038972.D

Acq: 5 May 2022 14:40

Tgt Ion: 43 Resp: 190171

Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.1	12.1#
61	0.1	7.8	11.6#
70	1.5	5.6	8.4#

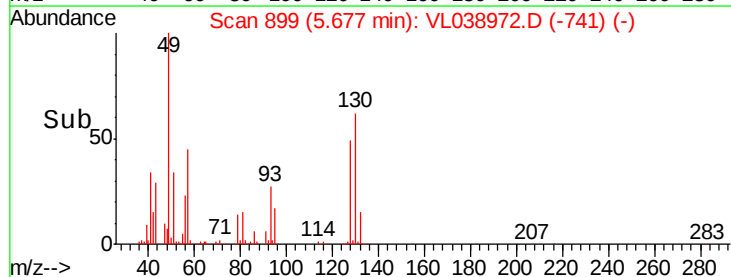
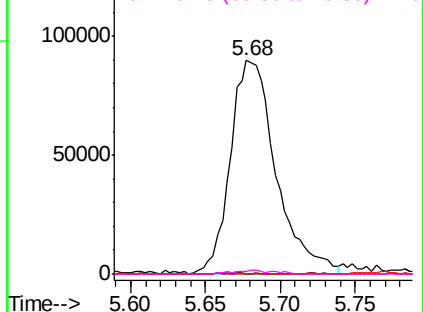


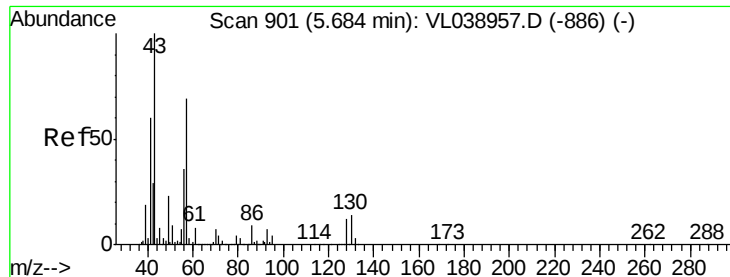
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.054 ppbv

RT: 5.68 Instrument:

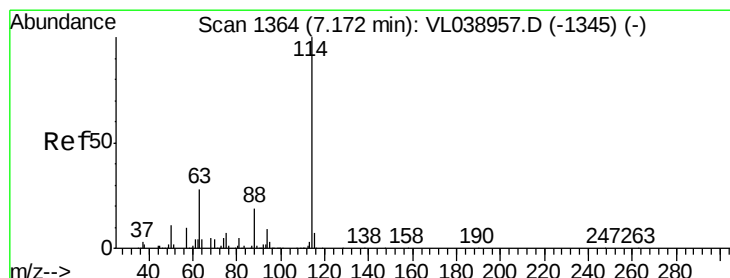
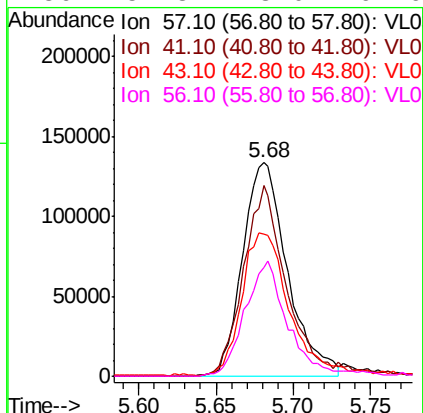
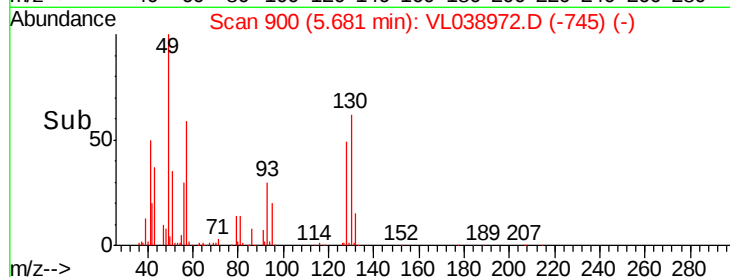
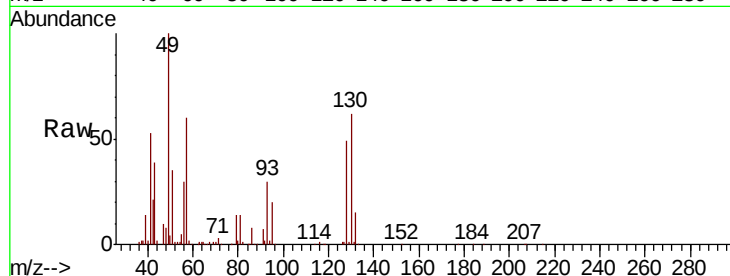
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:40 SV1DL

Tot Ion: 57 Resp: 269432

Ion	Ratio	Lower	Upper
57	100		
41	88.6	75.2	112.8
43	75.4	190.8	286.2#
56	51.8	43.0	64.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

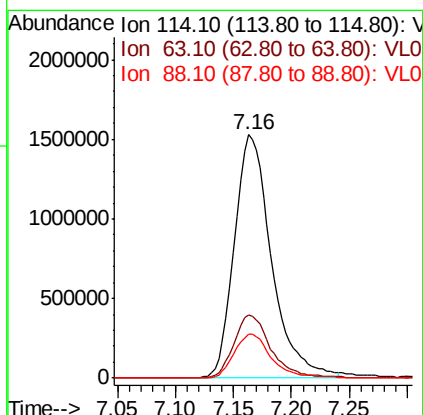
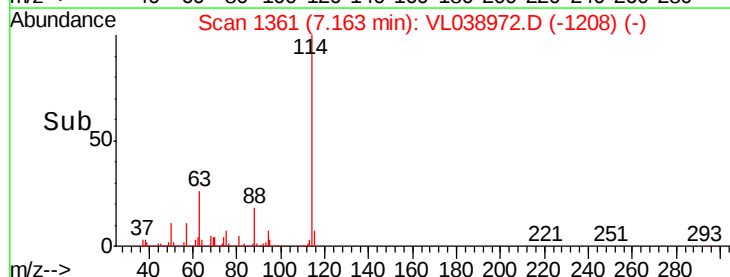
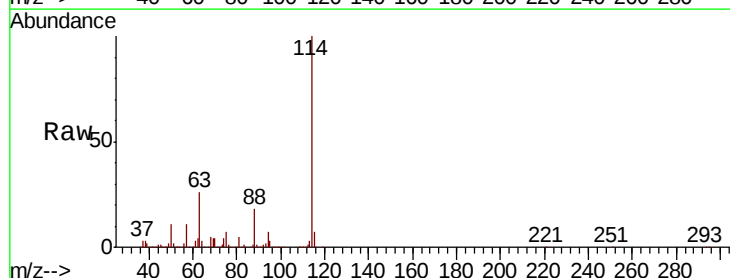
Delta R.T. -0.01 min

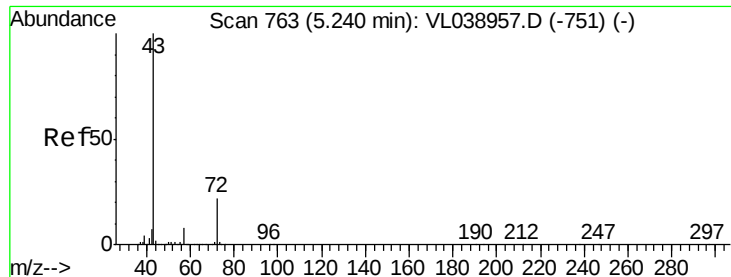
Lab File: VL038972.D

Acq: 5 May 2022 14:40

Tgt Ion: 114 Resp: 3402933

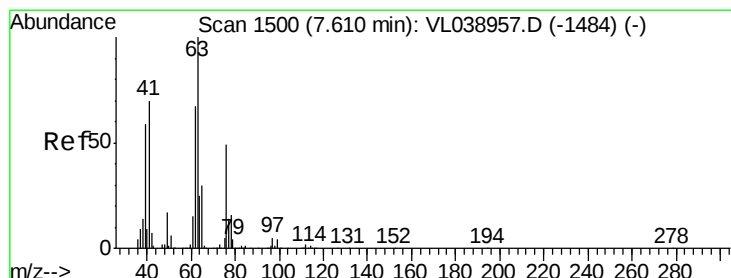
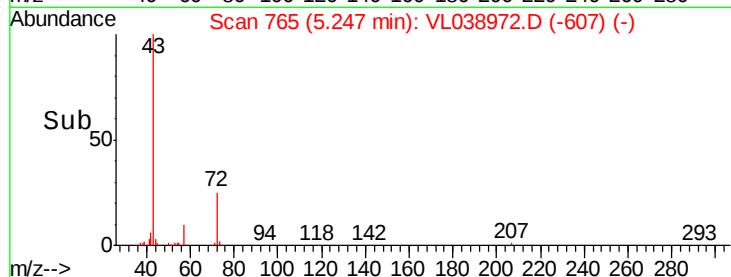
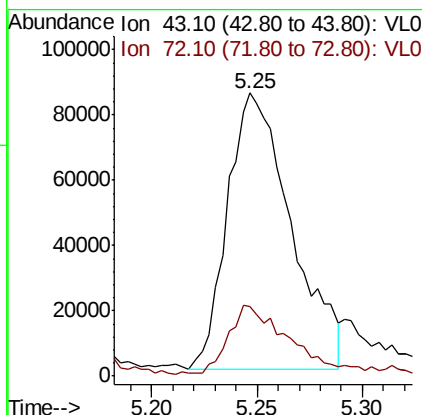
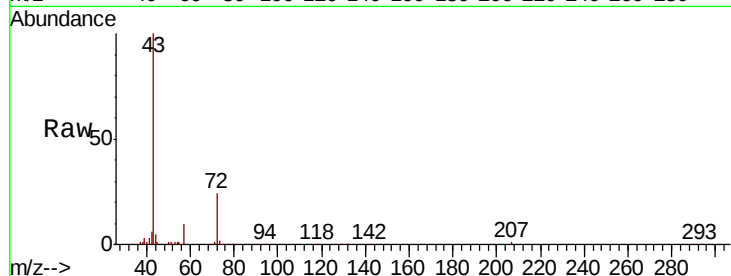
Ion	Ratio	Lower	Upper
114	100		
63	26.3	22.6	33.8
88	18.4	15.4	23.0





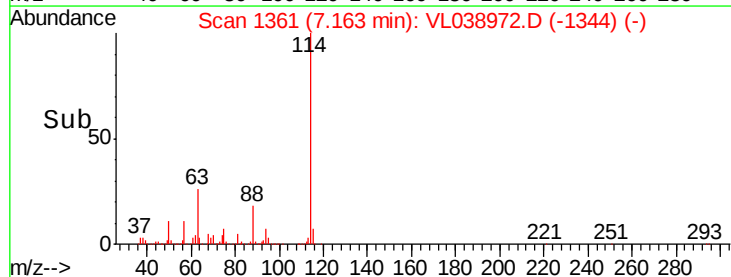
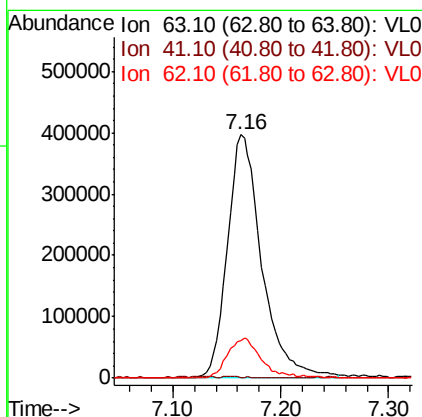
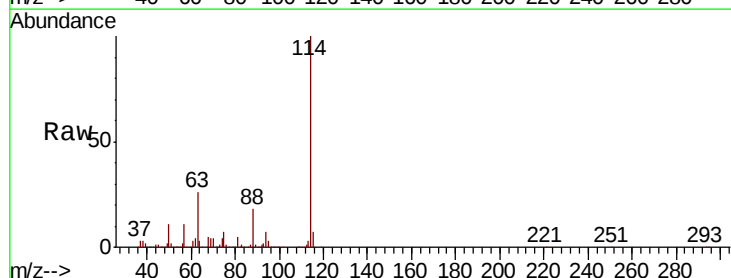
#34
 2-Butanone
 Concen: 1.021 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 5 May 2022 14:40

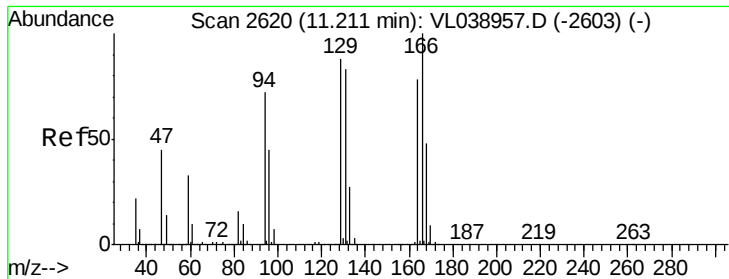
Tot Ion: 43 Resp: 177287
 Ion Ratio Lower Upper
 43 100
 72 27.7 17.8 26.6#



#39
 1,2-Dichloropropane
 Concen: 7.791 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.45 min
 Lab File: VL038972.D
 Acq: 5 May 2022 14:40

Tgt Ion: 63 Resp: 882766
 Ion Ratio Lower Upper
 63 100
 41 0.1 55.9 83.9#
 62 15.6 53.8 80.6#





#52

Tetrachloroethene

Concen: 0.040 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 14:40

Tot Ion:164 Resp: 4132

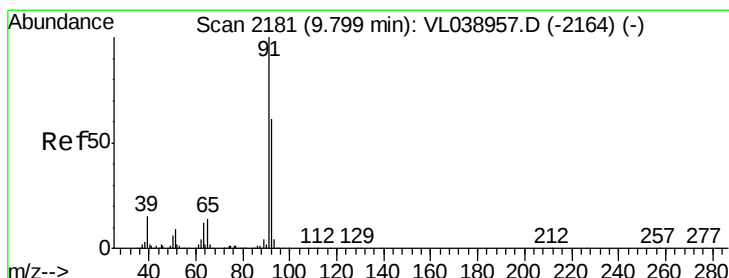
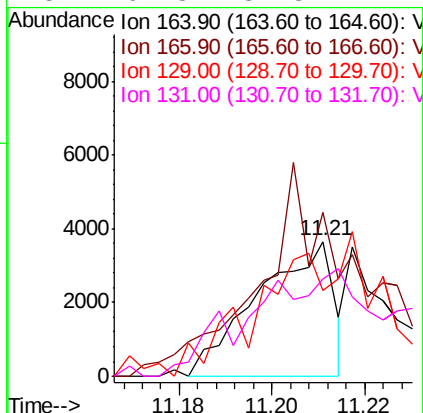
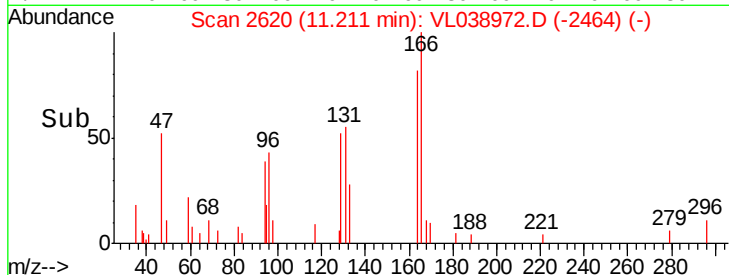
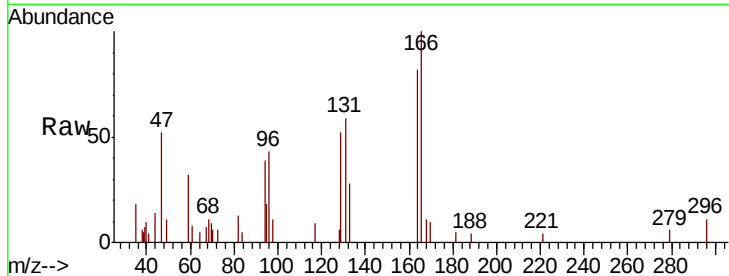
Ion Ratio Lower Upper

164 100

166 96.3 102.5 153.7#

129 39.3 90.1 135.1#

131 61.8 84.8 127.2#



#53

Toluene

Concen: 0.044 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL038972.D

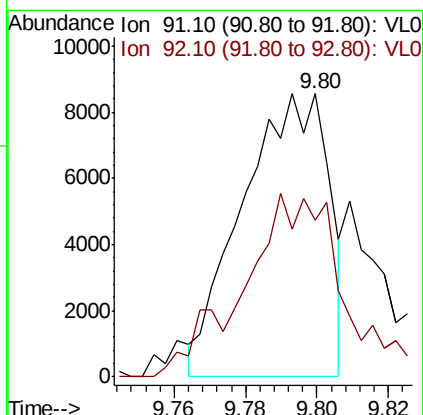
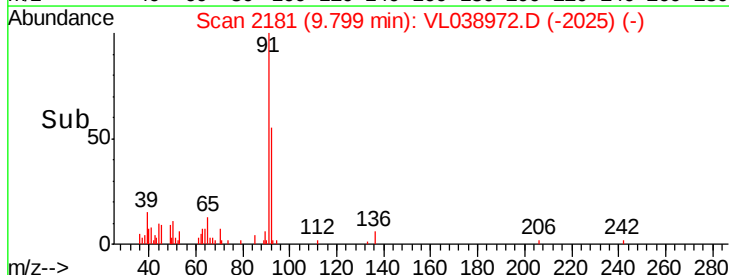
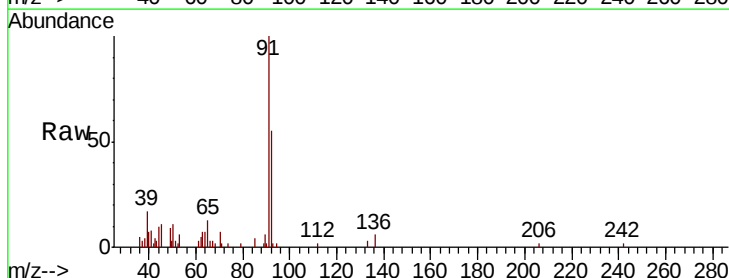
Acq: 5 May 2022 14:40

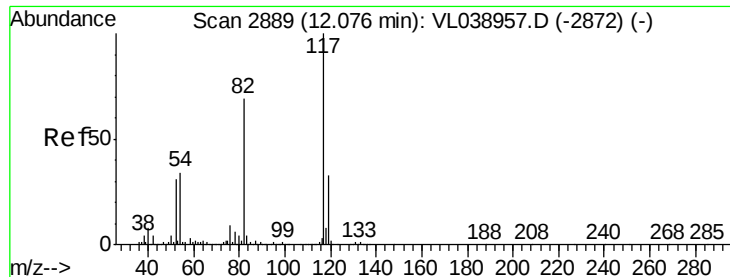
Tgt Ion: 91 Resp: 14338

Ion Ratio Lower Upper

91 100

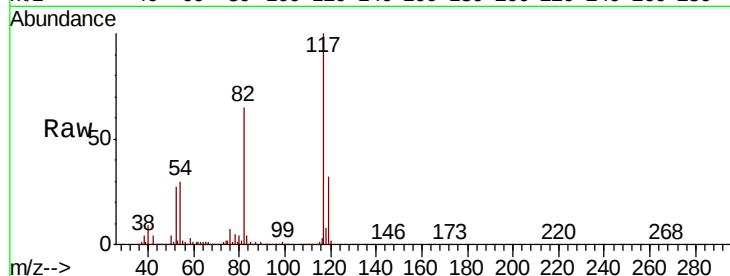
92 80.1 48.2 72.2#



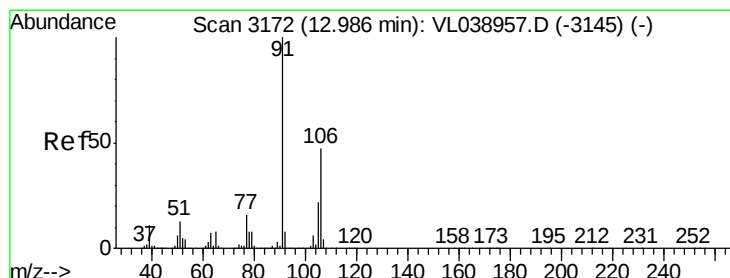
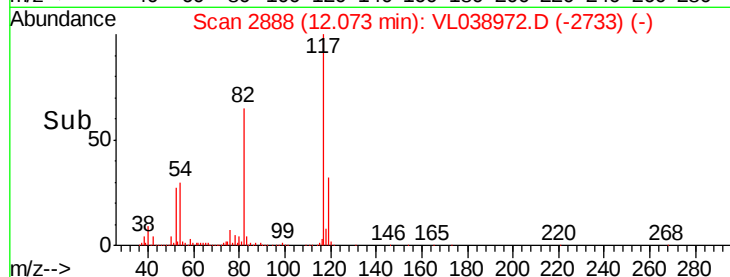
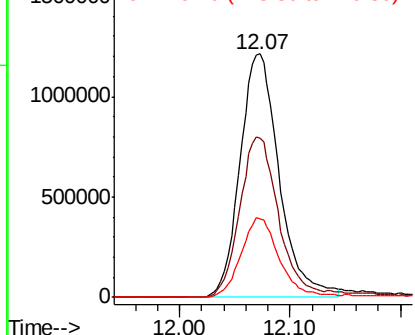


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 5 May 2022 14:40

Tot Ion:117 Resp: 2977161
Ion Ratio Lower Upper
117 100
82 70.6 57.0 85.6
119 33.8 27.2 40.8

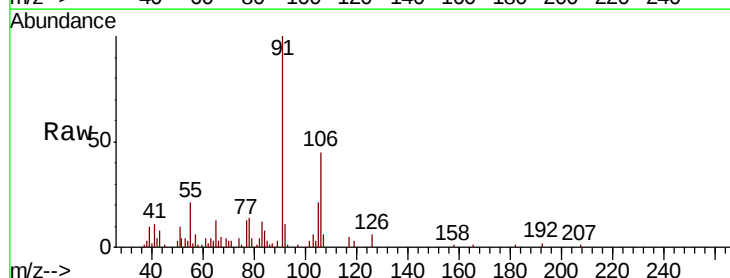


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

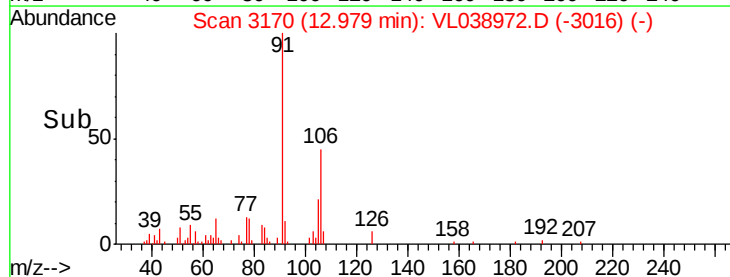
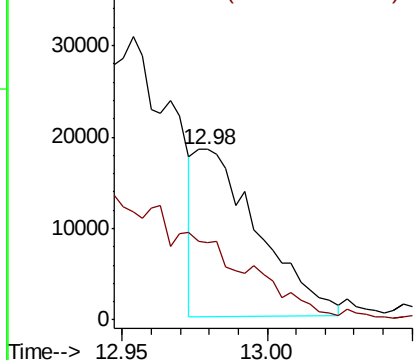


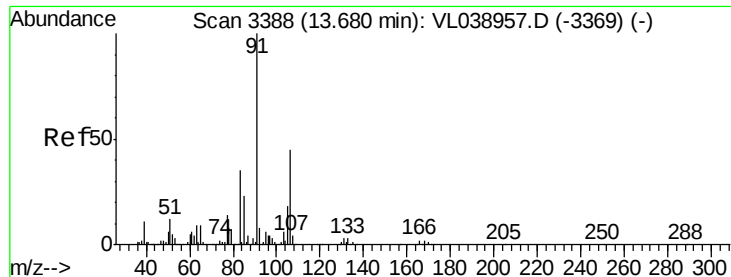
#59
m/p-Xylene
Concen: 0.076 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL038972.D
Acq: 5 May 2022 14:40

Tgt Ion: 91 Resp: 27632
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#



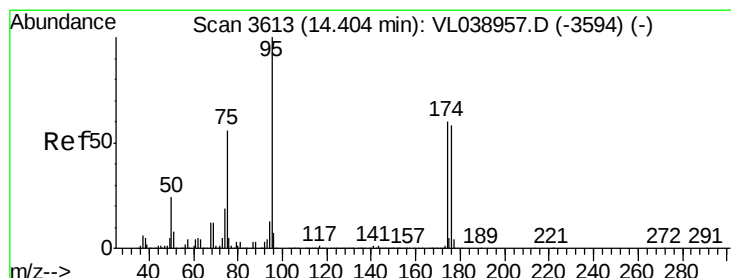
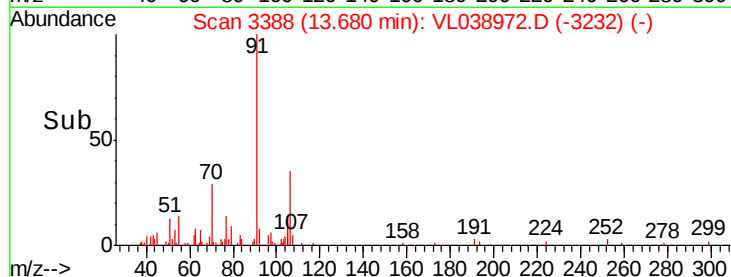
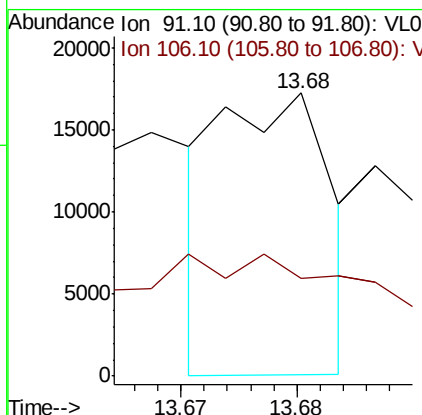
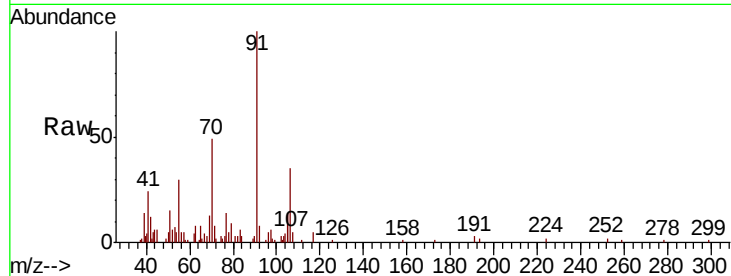
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





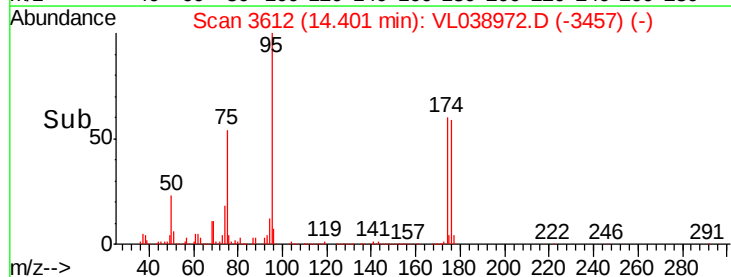
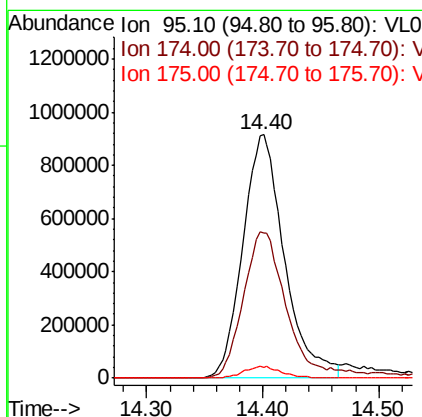
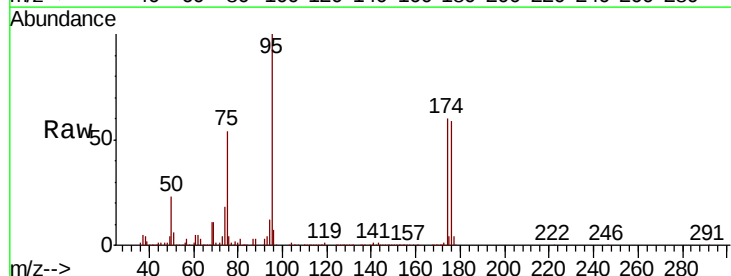
#60
o-Xylene
Concen: 0.033 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 5 May 2022 14:40

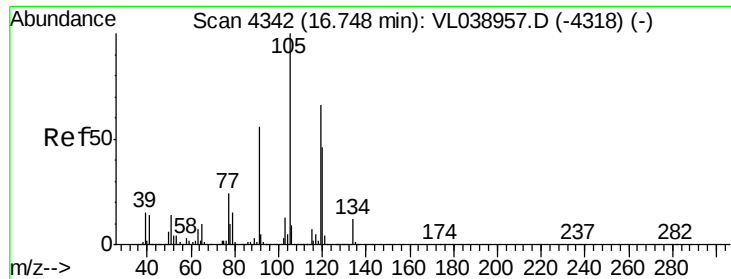
Tot Ion: 91 Resp: 11324
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.706 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.00 min
Lab File: VL038972.D
Acq: 5 May 2022 14:40

Tgt Ion: 95 Resp: 2288531
Ion Ratio Lower Upper
95 100
174 66.1 50.8 76.2
175 4.7 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.048 ppbv
 RT: 16.74
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 5 May 2022 14:40

Tot Ion:	105	Resp:	18468
Ion	Ratio	Lower	Upper
105	100		
120	53.2	36.9	55.3
91	19.7	45.0	67.4#
77	16.1	19.2	28.8#

