

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 :

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%

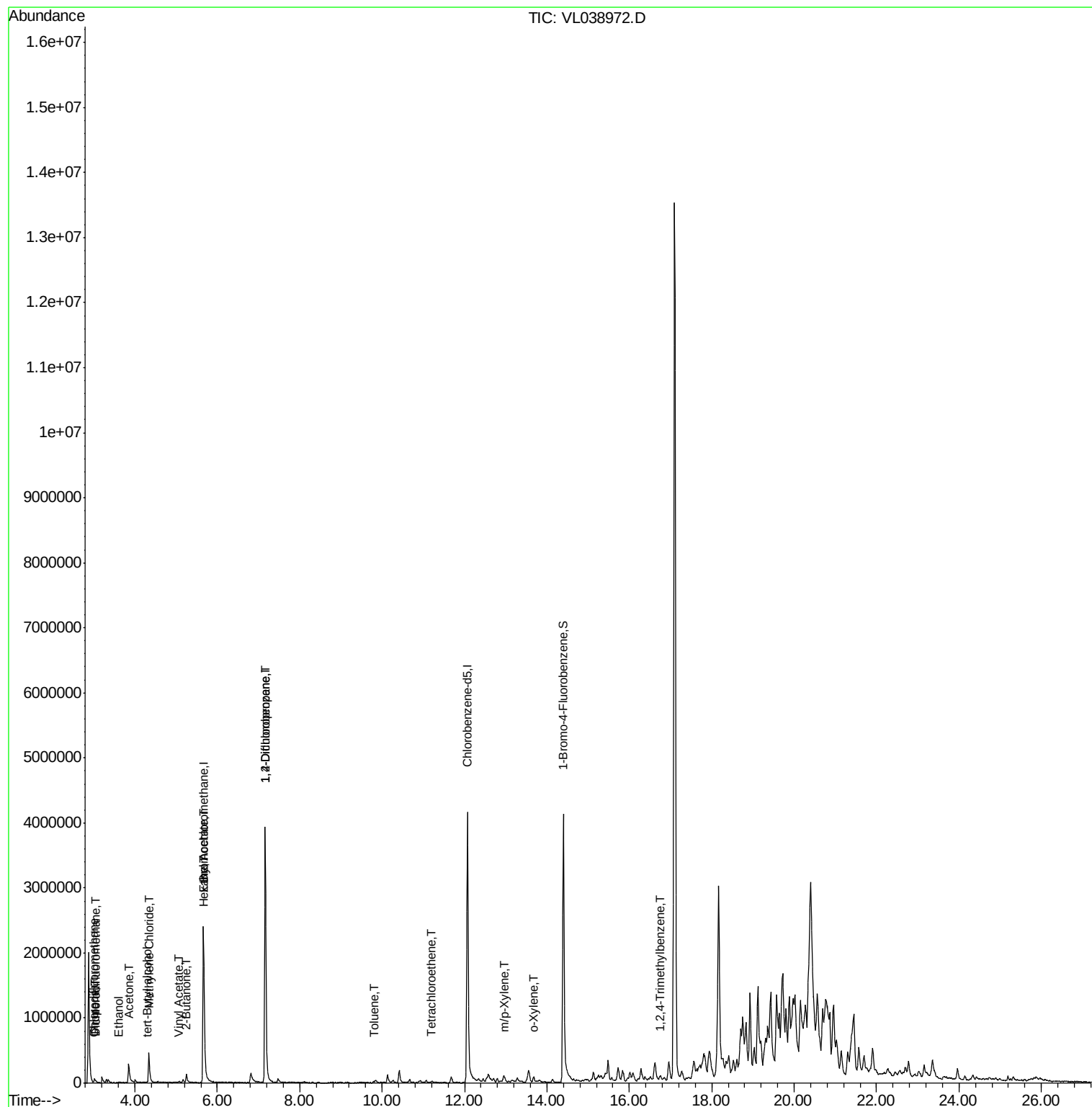
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	13618	0.066 ppbv	96
3) Chlorodifluoromethane	2.99	51	12393	0.076 ppbv	98
9) Propene	3.02	41	10715	0.151 ppbv #	62
13) Ethanol	3.61	45	7761	1.403 ppbv #	55
15) Acetone	3.85	43	414100	3.358 ppbv #	89
17) tert-Butyl alcohol	4.30	59	2943	0.031 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

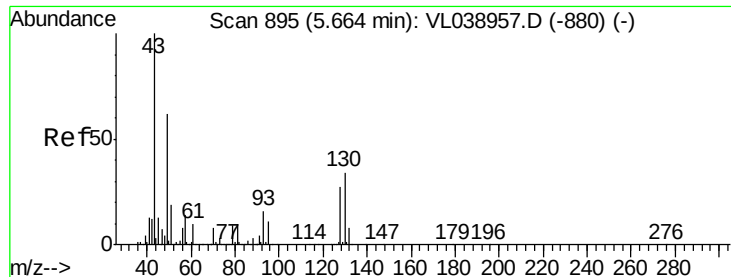
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:40

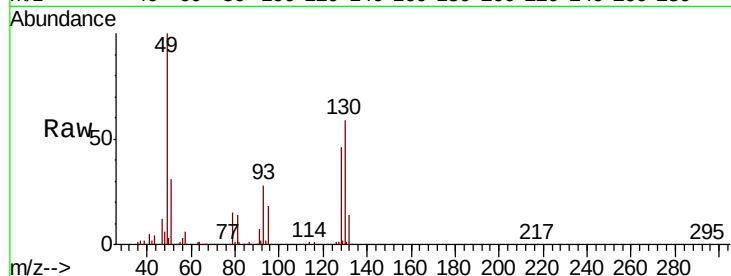
Tot Ion: 49 Resp: 1307372

Ion Ratio Lower Upper

49 100

128 48.9 23.3 69.8

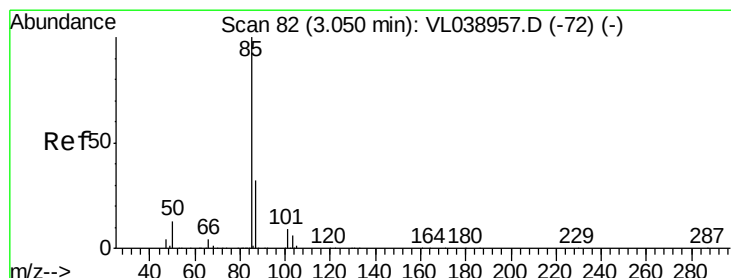
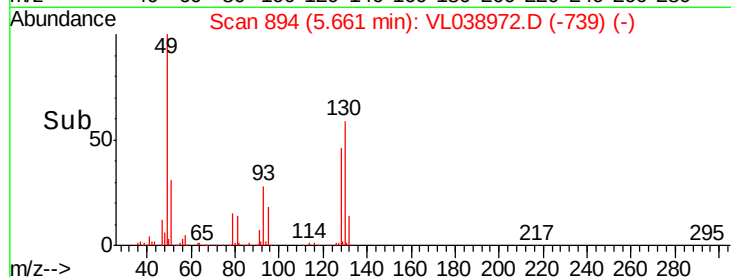
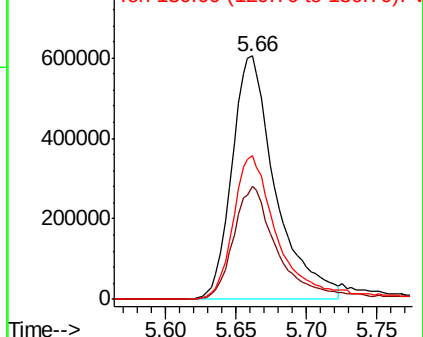
130 63.0 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.066 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL038972.D

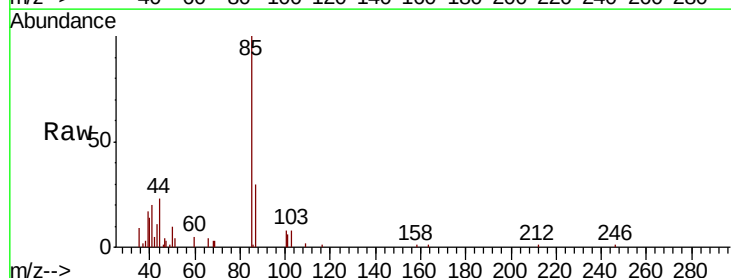
Acq: 5 May 2022 14:40

Tgt Ion: 85 Resp: 13618

Ion Ratio Lower Upper

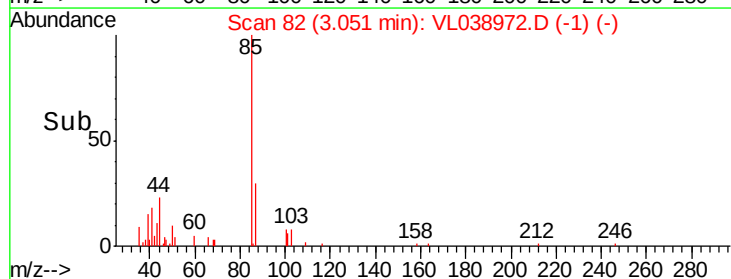
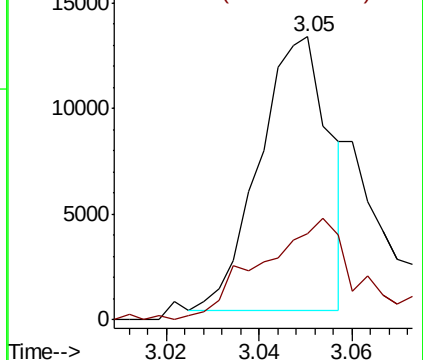
85 100

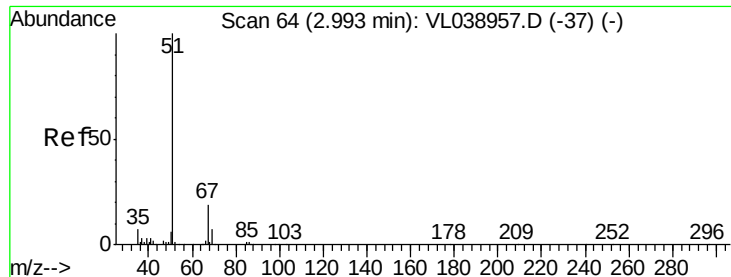
87 29.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.076 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

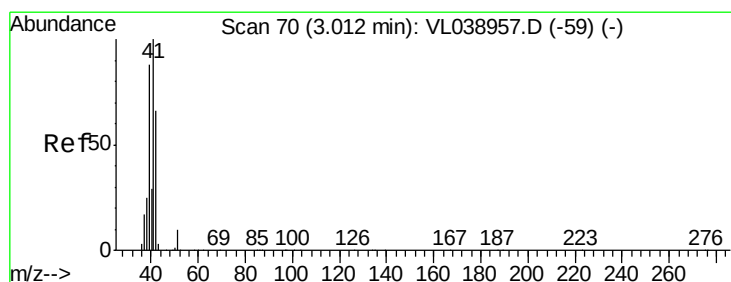
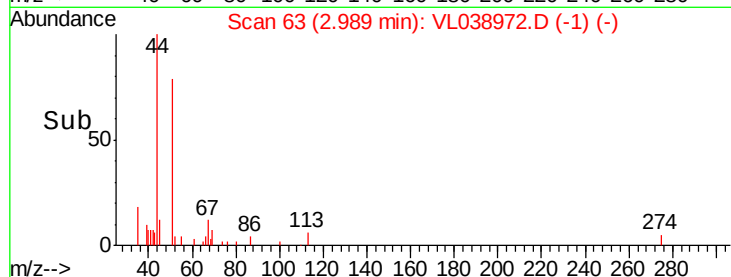
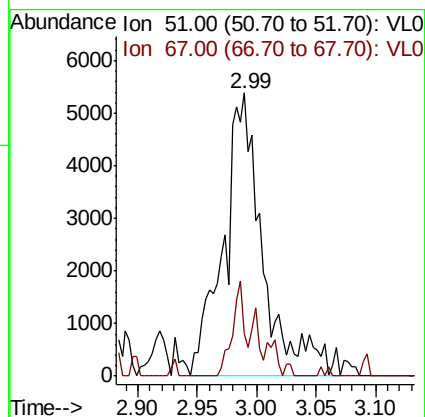
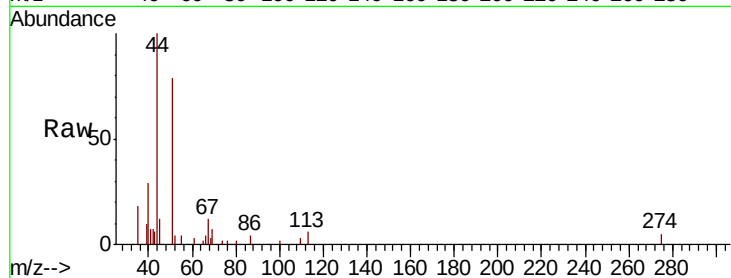
Acq: 5 May 2022 14:40

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

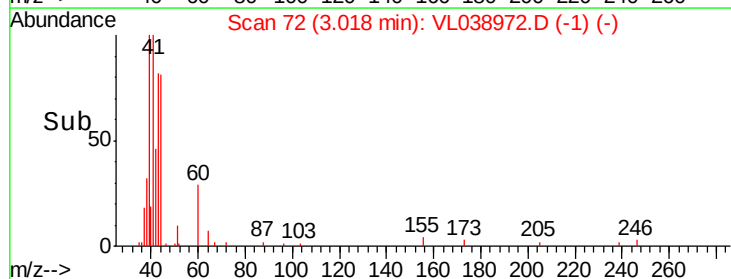
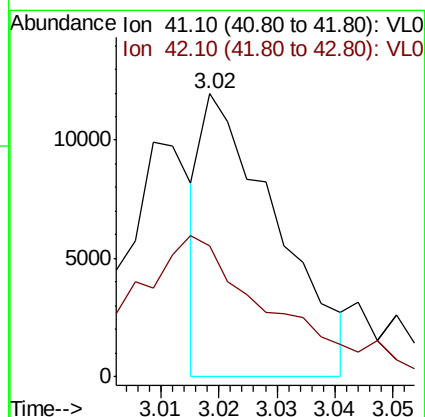
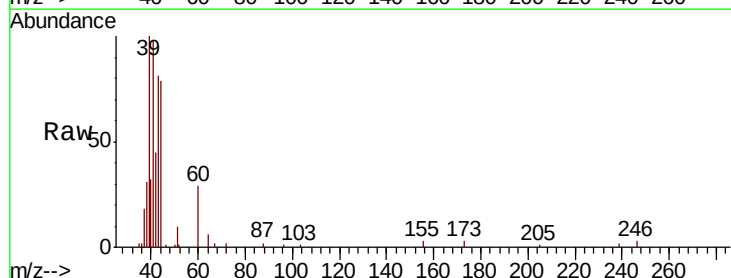
Acq: 5 May 2022 14:40

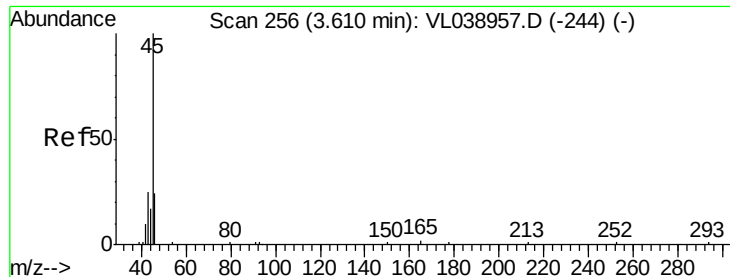
Tgt Ion: 41 Resp: 10715

Ion Ratio Lower Upper

41 100

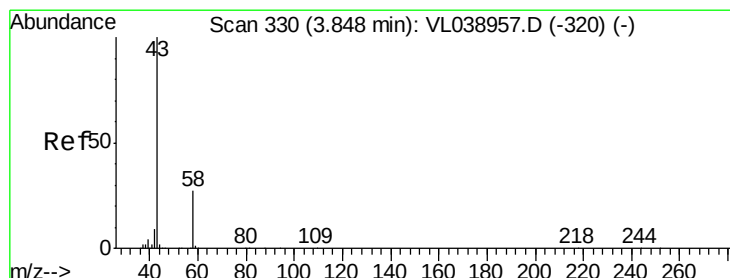
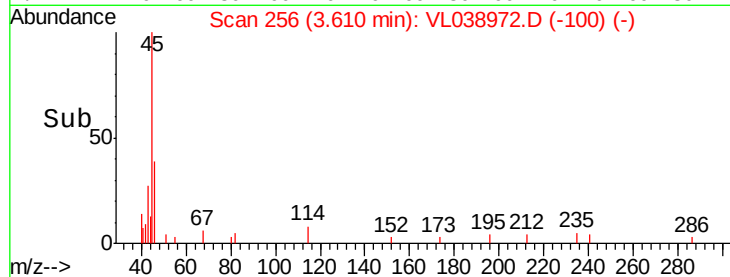
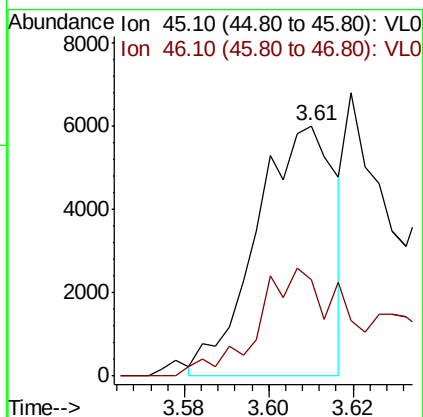
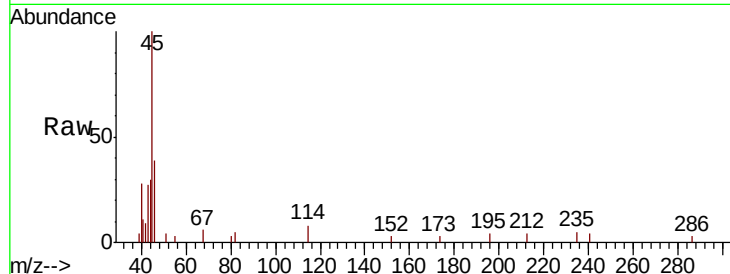
42 104.9 58.3 87.5#





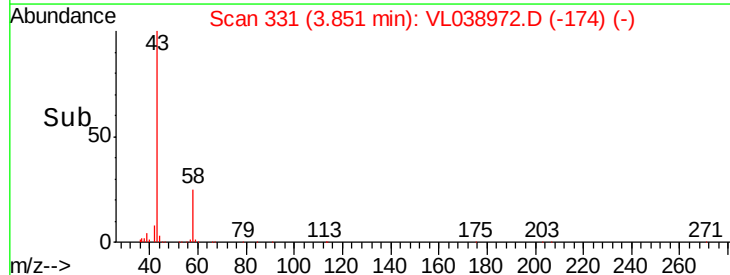
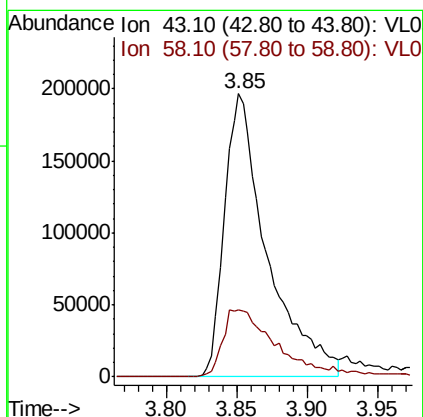
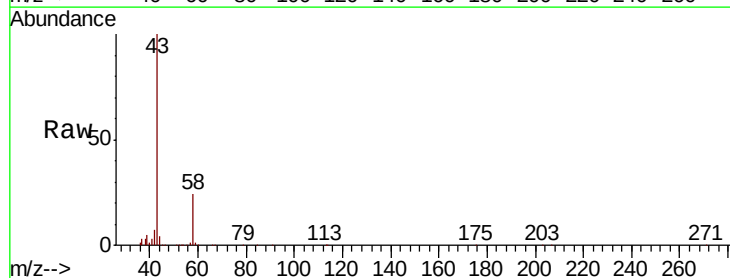
#13
Ethanol
Concen: 1.403 ppbv
RT: 3.61 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 5 May 2022 14:40

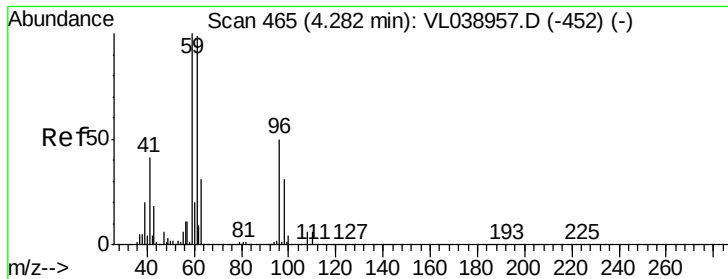
Tot Ion: 45 Resp: 7761
Ion Ratio Lower Upper
45 100
46 74.5 18.0 72.2#



#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 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

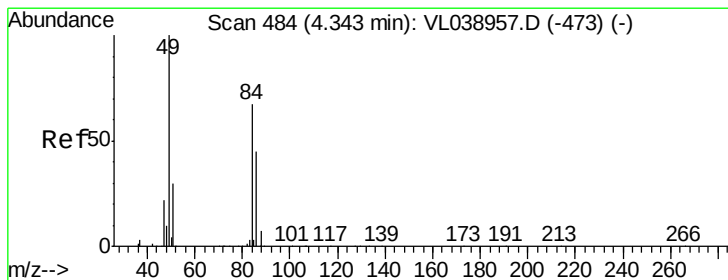
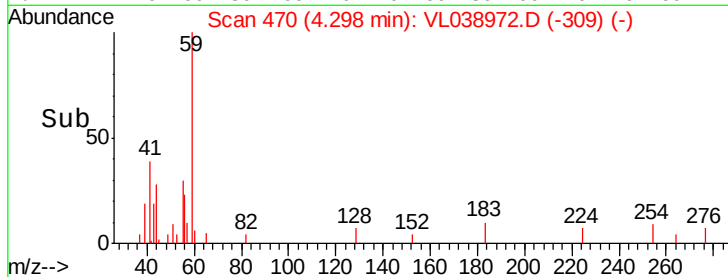
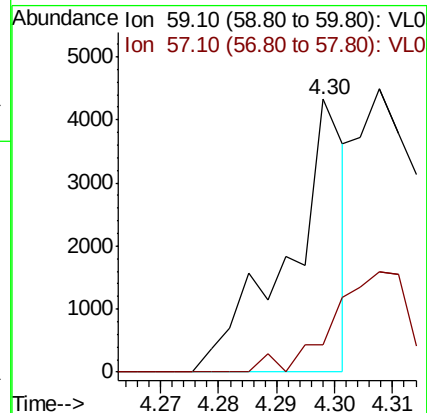
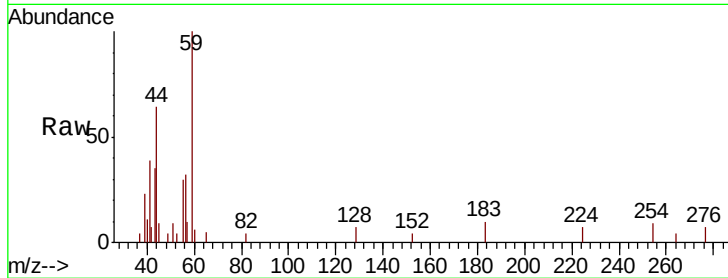
Acq: 5 May 2022 14:40

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

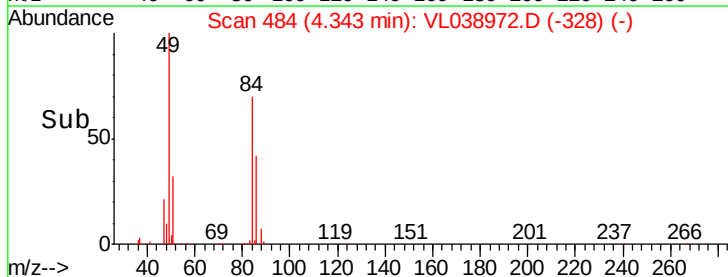
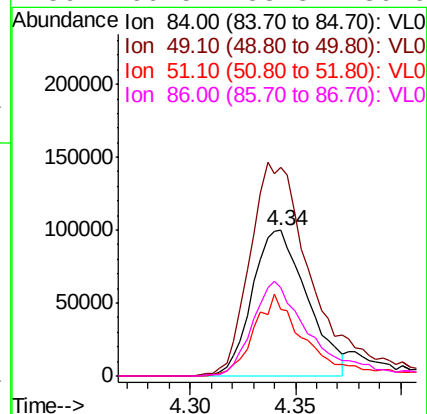
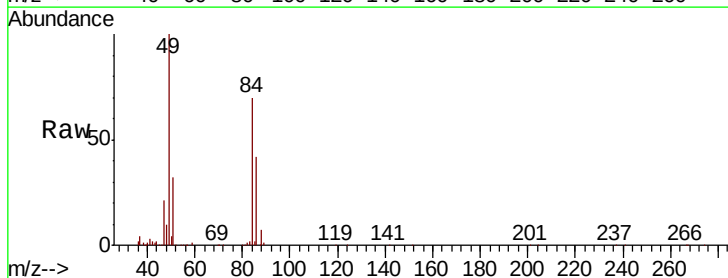
Ion Ratio Lower Upper

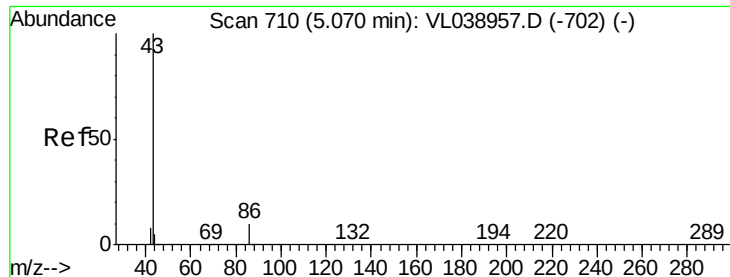
84 100

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:

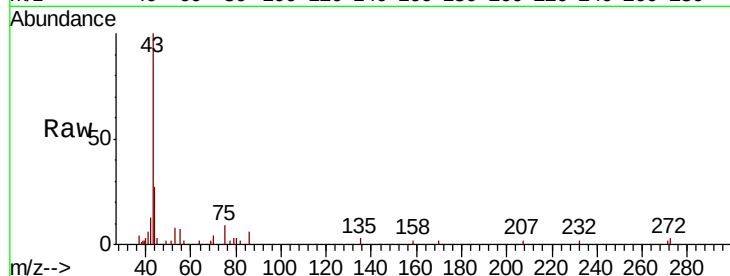
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:40

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

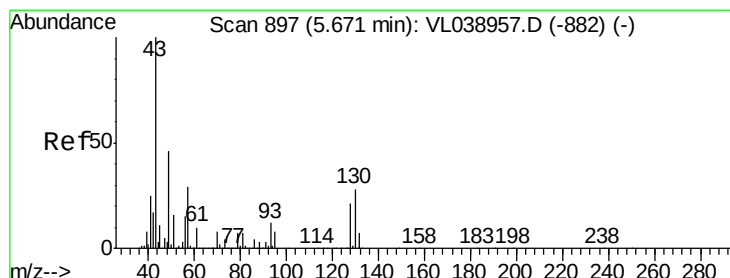
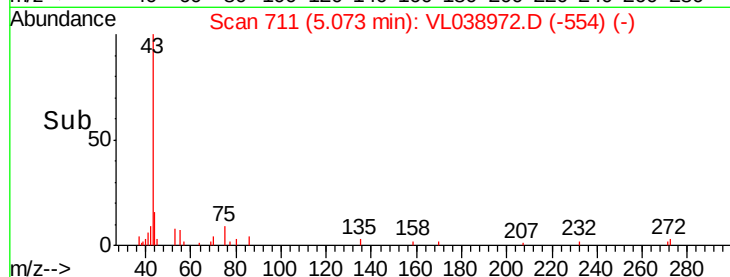
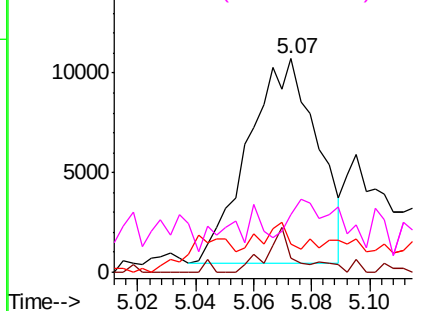


Abundance Ion 43.10 (42.80 to 43.80): VL0

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

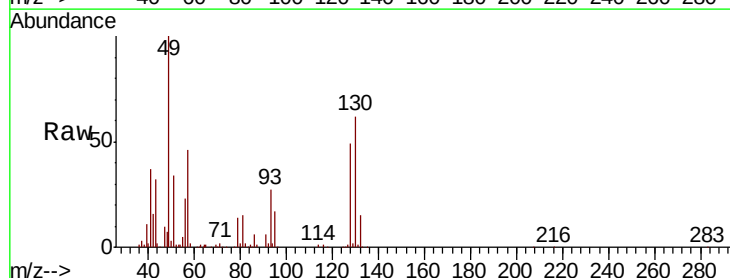
Delta R.T. 0.01 min

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#

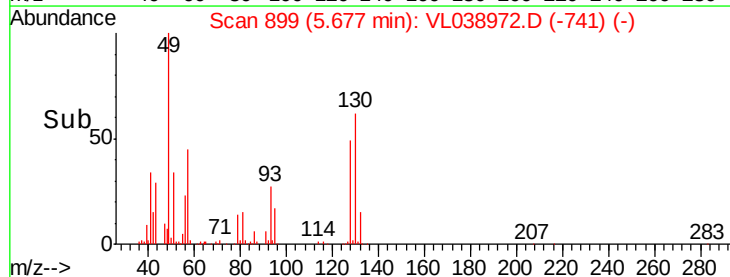
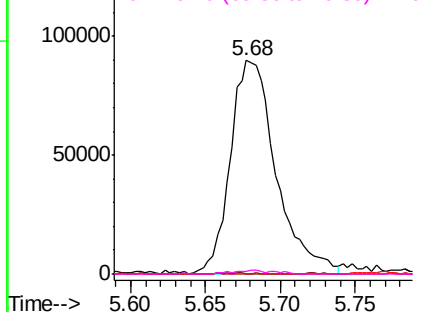


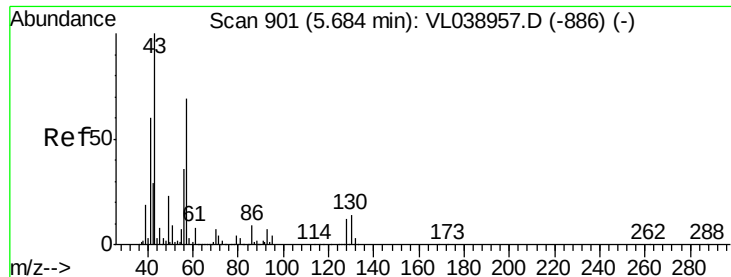
Abundance Ion 43.10 (42.80 to 43.80): VL0

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:

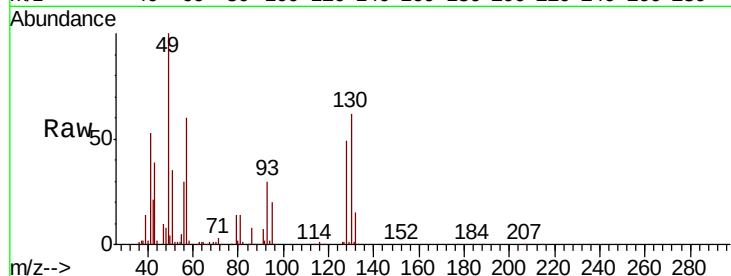
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 14:40

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

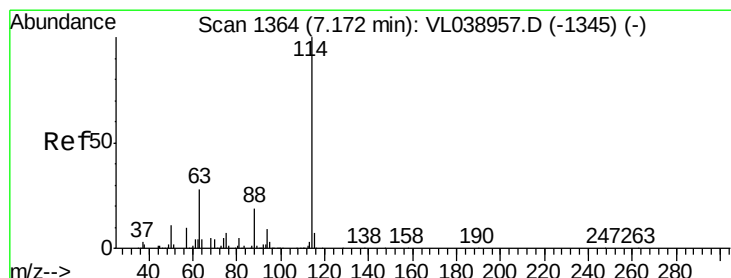
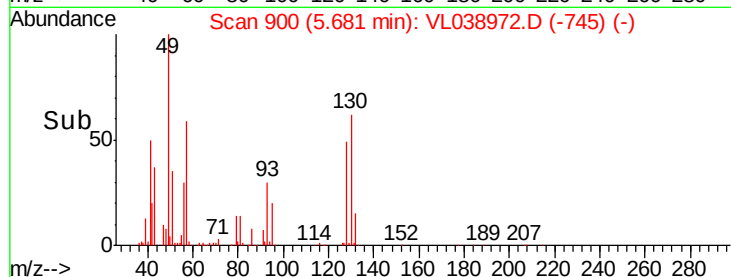
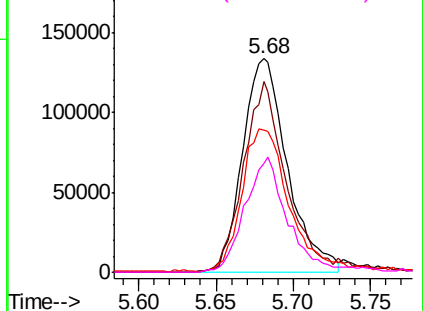


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.16 min Scan# 1361

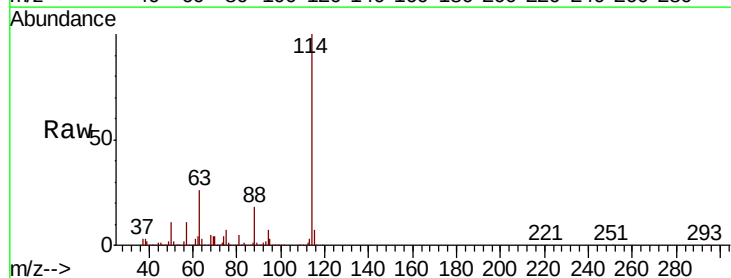
Delta R.T. -0.01 min

Lab File: VL038972.D

Acq: 5 May 2022 14:40

Tgt Ion: 114 Resp: 3402933

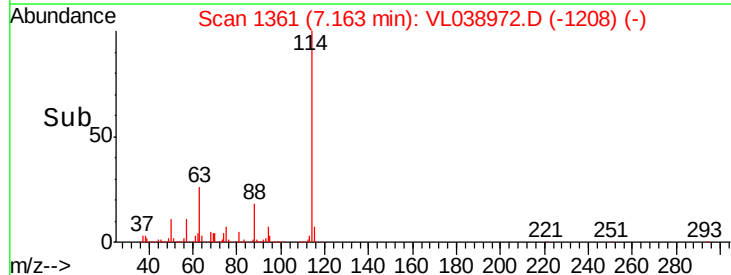
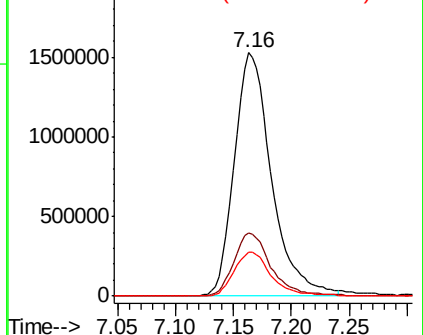
Ion	Ratio	Lower	Upper
114	100		
63	26.3	22.6	33.8
88	18.4	15.4	23.0

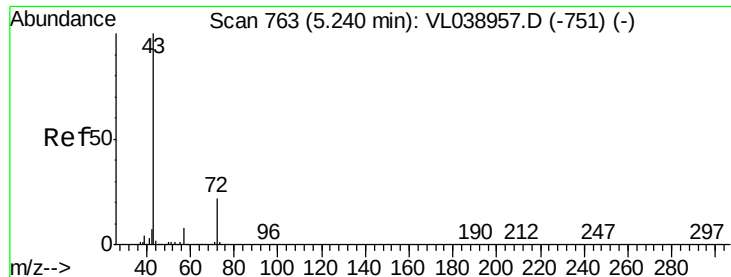


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

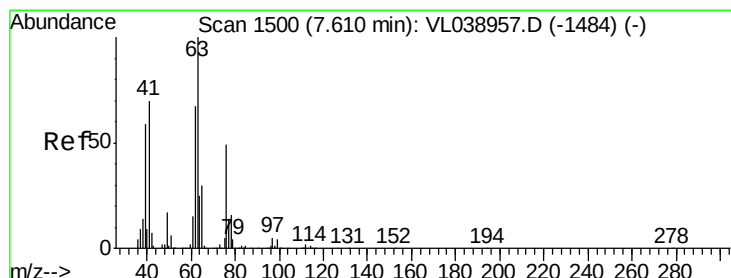
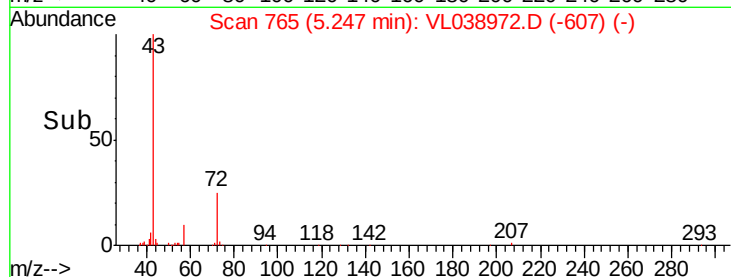
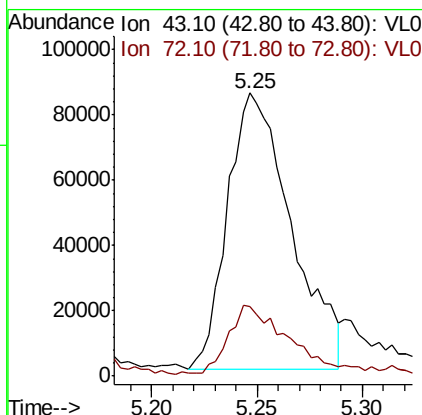
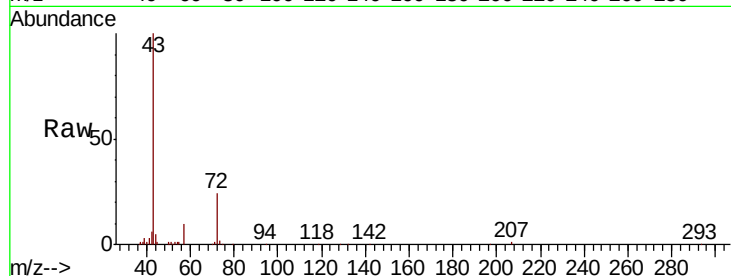
Ion 88.10 (87.80 to 88.80): VL0





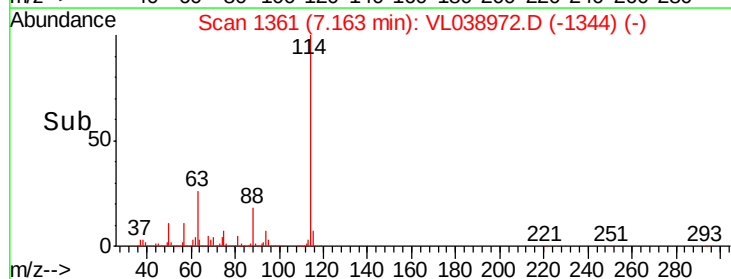
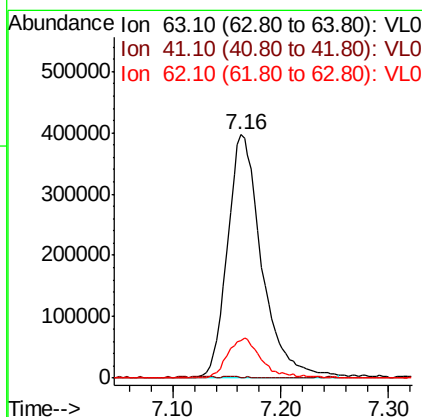
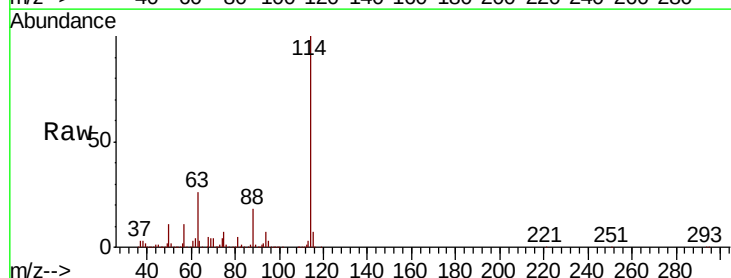
#34
2-Butanone
Concen: 1.021 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 14:40

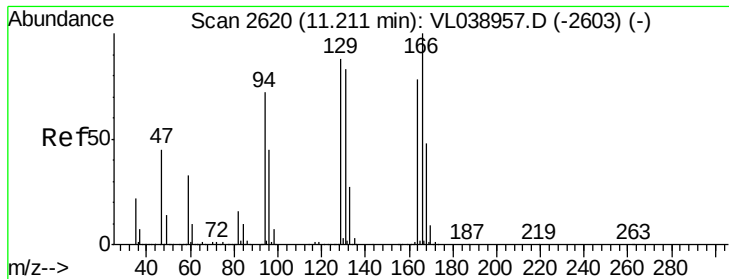
Tot Ion: 43 Resp: 177287
Ion Ratio Lower Upper
43 100
72 27.7 17.8 26.6#



#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:

Acq: 5 May 2022 14:40

Tot Ion:164 Resp: 4132

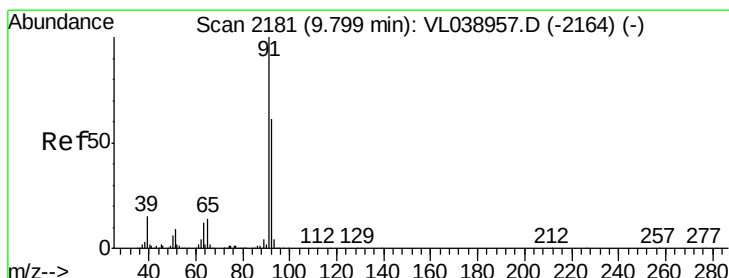
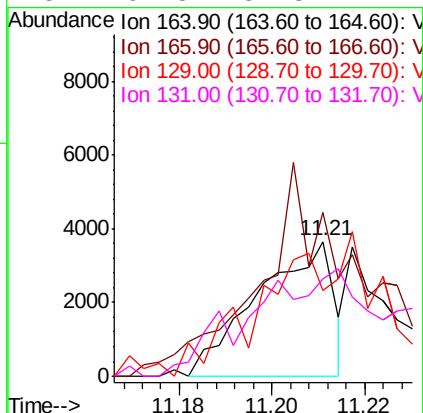
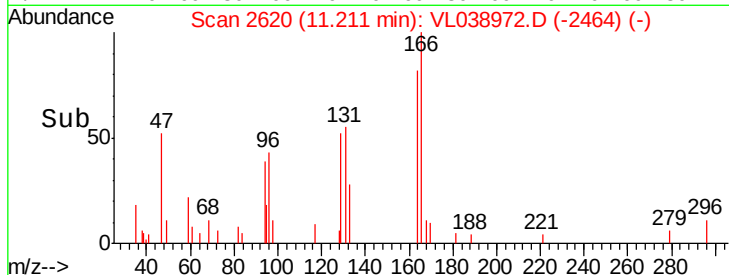
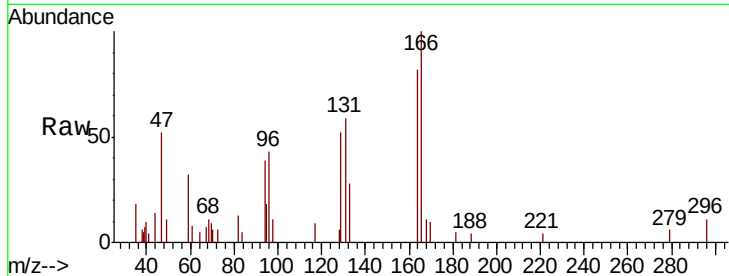
Ion Ratio Lower Upper

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

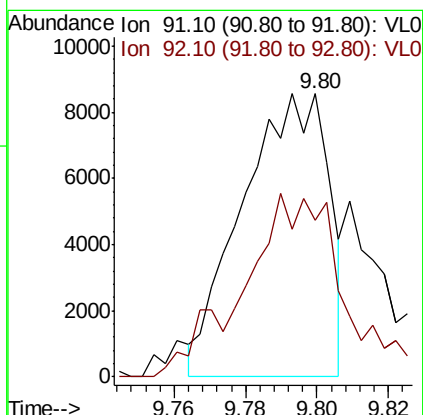
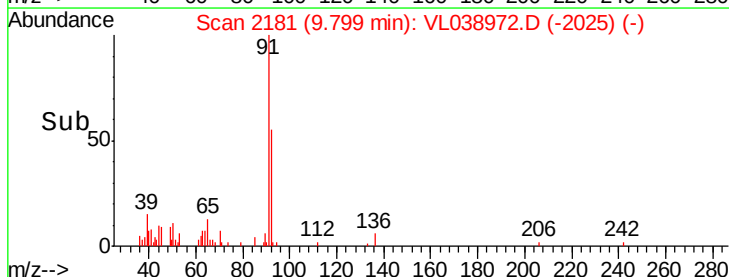
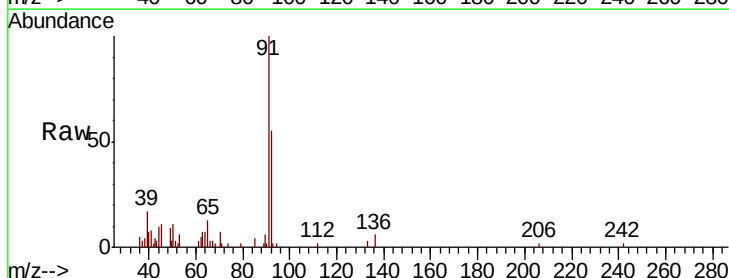
Acq: 5 May 2022 14:40

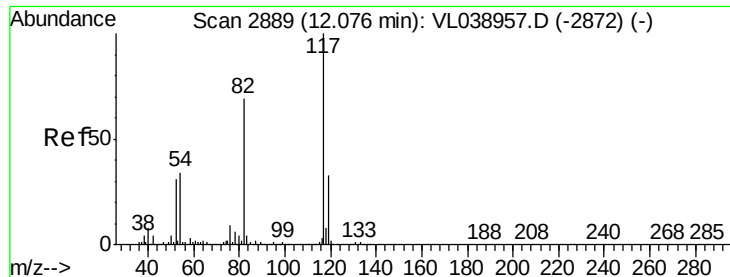
Tgt Ion: 91 Resp: 14338

Ion Ratio Lower Upper

91 100

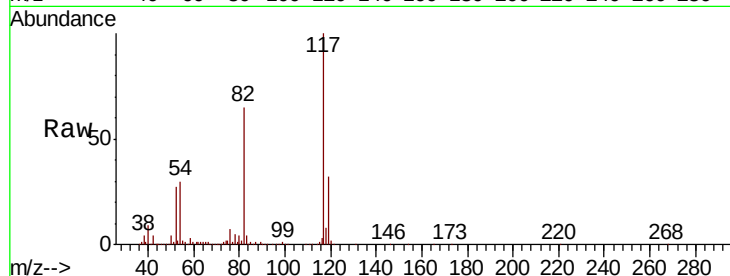
92 80.1 48.2 72.2#



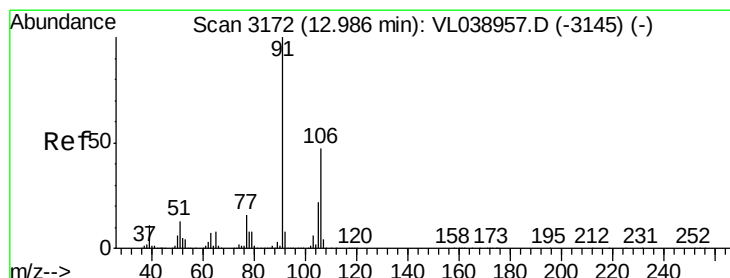
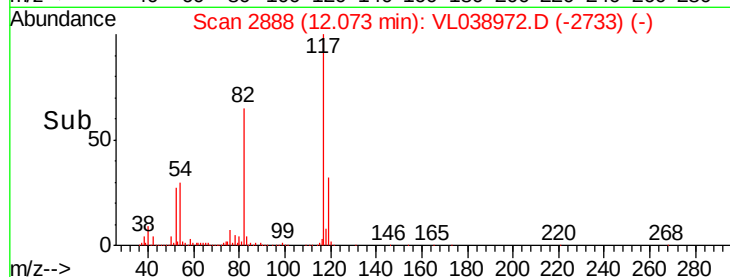
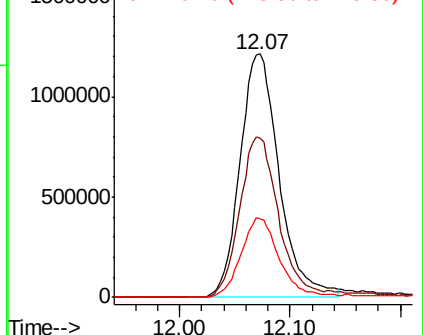


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 14:40

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

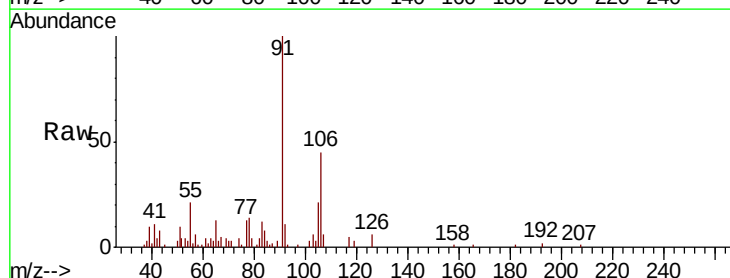


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

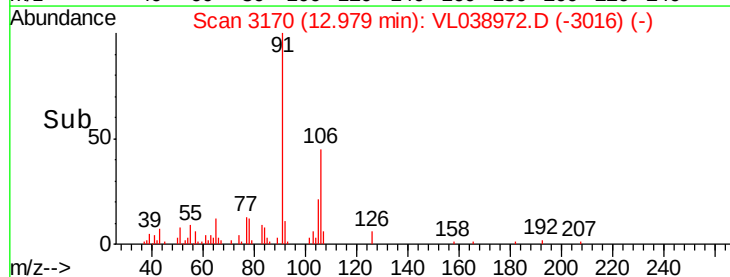
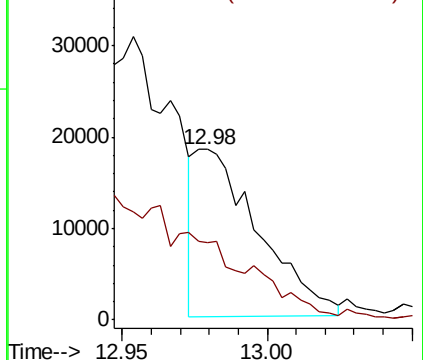


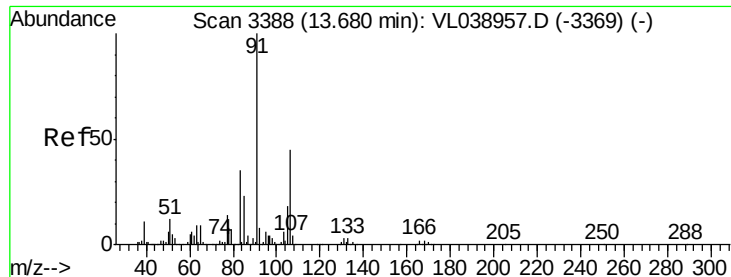
#59
m/p-Xylene
Concen: 0.076 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL038972.D
Acq: 5 May 2022 14:40

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:

Acq: 5 May 2022 14:40

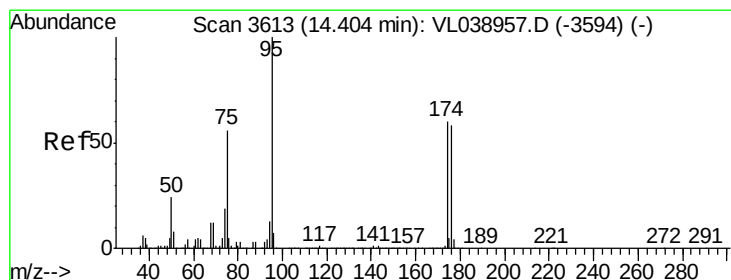
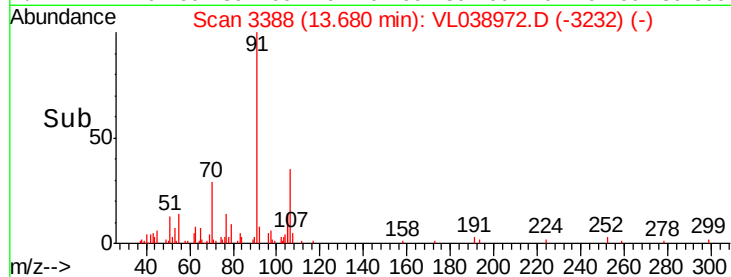
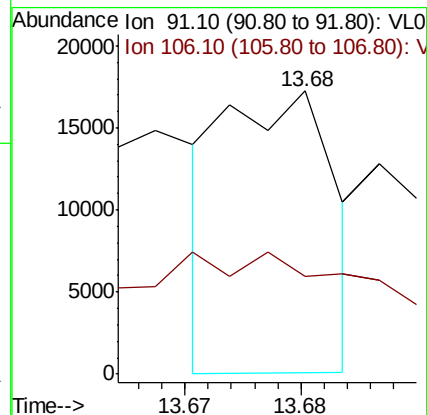
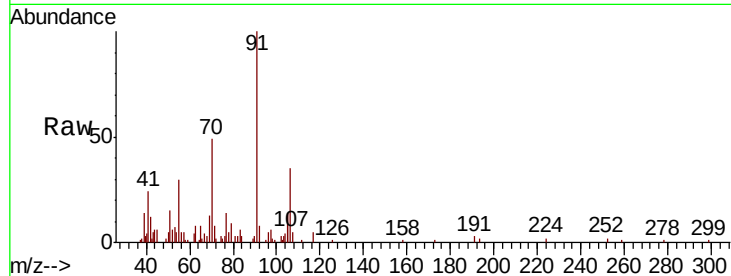
Instrument :
ClientSampleId :

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

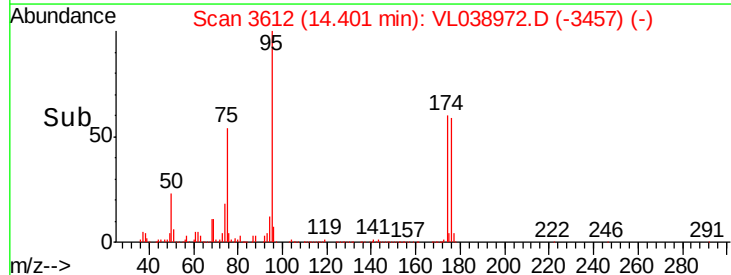
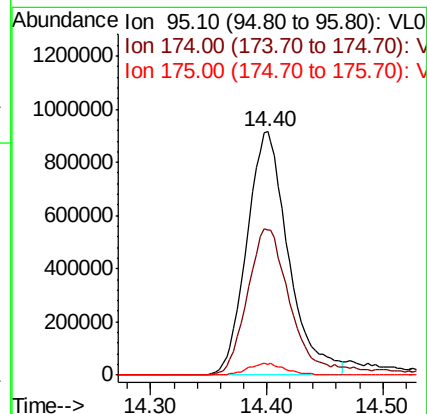
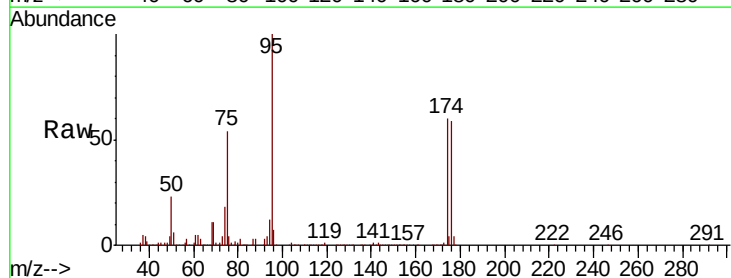
Tgt Ion: 95 Resp: 2288531

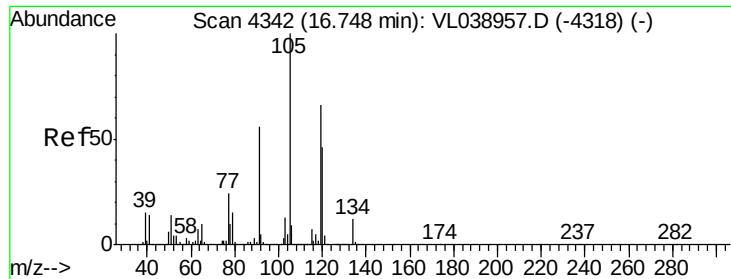
Ion Ratio Lower Upper

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 :

Acq: 5 May 2022 14:40

Tot Ion:105 Resp: 18468

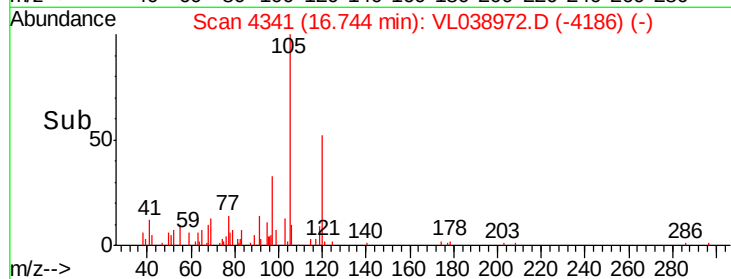
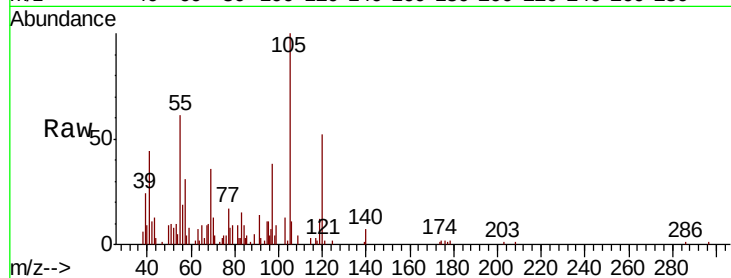
Ion Ratio Lower Upper

105 100

120 53.2 36.9 55.3

91 19.7 45.0 67.4#

77 16.1 19.2 28.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

