

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038976.D
 Acq On : 5 May 2022 17:20
 Operator : SY/AP
 Sample : N2698-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Quant Time: May 06 07:29:08 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	1303271	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3408220	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2986947	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1097673	4.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	46.40%#

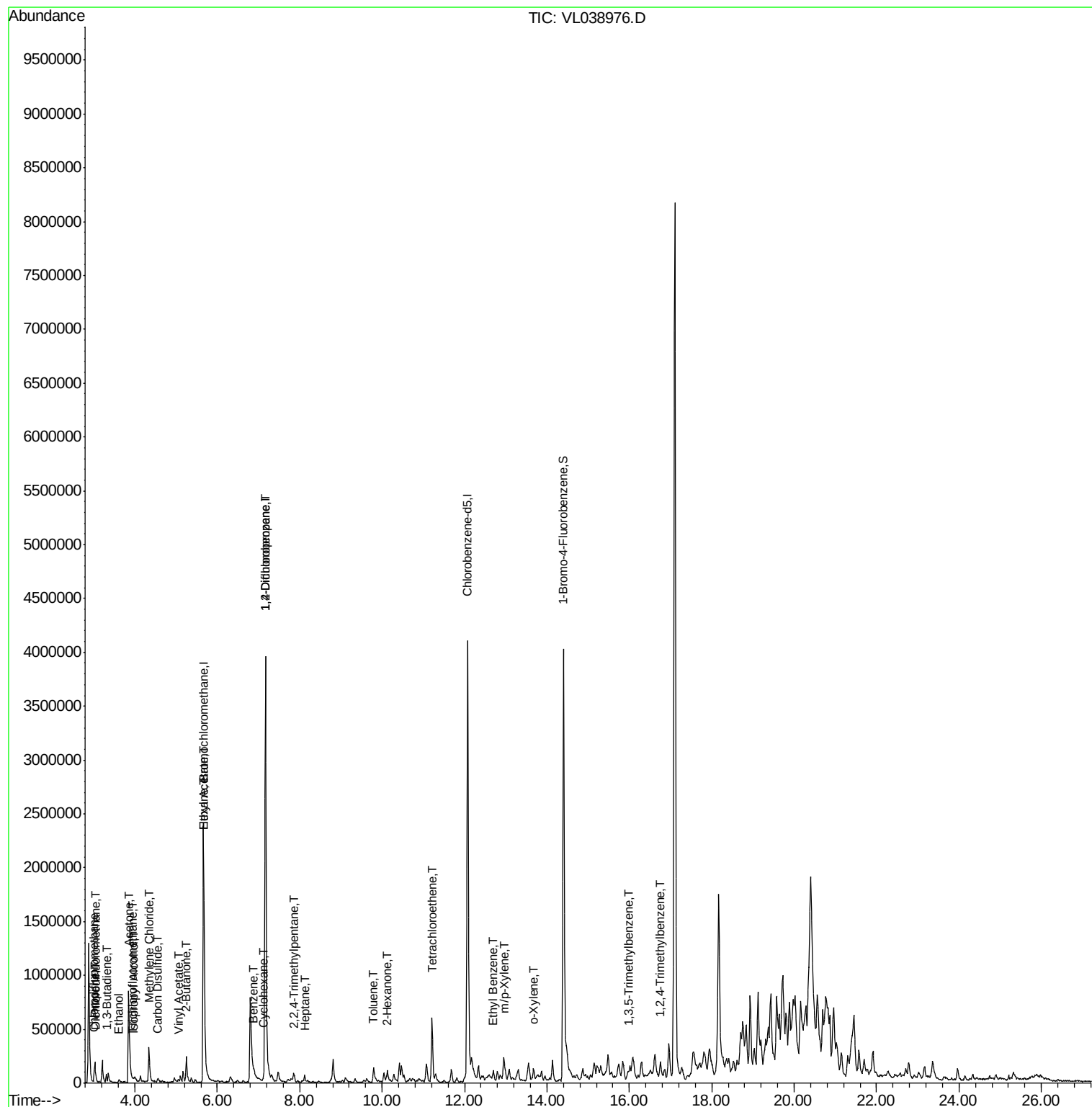
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	28871	0.141 ppbv #	83
3) Chlorodifluoromethane	2.99	51	10556	0.065 ppbv	93
9) Propene	3.02	41	60101	0.851 ppbv #	82
10) Heptane	8.12	43	16615	0.096 ppbv #	30
11) Trichlorofluoromethane	3.95	101	8779	0.050 ppbv	93
13) Ethanol	3.61	45	15016	2.723 ppbv #	2
15) Acetone	3.85	43	1183105	9.624 ppbv	98
16) 1,3-Butadiene	3.32	39	7543	0.107 ppbv #	33
19) Isopropyl Alcohol	3.97	45	14650	0.251 ppbv #	95
20) Methylene Chloride	4.35	84	124655	2.690 ppbv	97
23) Vinyl Acetate	5.05	43	8706	0.090 ppbv #	1
25) Ethyl Acetate	5.68	43	148323	0.504 ppbv #	78
26) Hexane	5.68	57	214546	1.641 ppbv #	37
27) Carbon Disulfide	4.55	76	48249	0.388 ppbv #	81
30) Cyclohexane	7.12	84	5738	0.052 ppbv #	1
34) 2-Butanone	5.25	43	312289	1.796 ppbv #	88
36) Benzene	6.89	78	14320	0.049 ppbv	93
39) 1,2-Dichloropropane	7.17	63	826401	7.282 ppbv #	26
44) 2,2,4-Trimethylpentane	7.86	57	34409	0.067 ppbv #	1
51) 2-Hexanone	10.13	43	95458	0.429 ppbv	93
52) Tetrachloroethene	11.21	164	147392	1.414 ppbv	96
53) Toluene	9.80	91	90256	0.276 ppbv	100
58) Ethyl Benzene	12.70	91	63839	0.149 ppbv	97
59) m/p-Xylene	12.95	91	216827	0.591 ppbv	95
60) o-Xylene	13.68	91	18452	0.053 ppbv #	1
73) 1,3,5-Trimethylbenzene	15.99	105	32035	0.090 ppbv	90
74) 1,2,4-Trimethylbenzene	16.75	105	40633	0.105 ppbv #	68

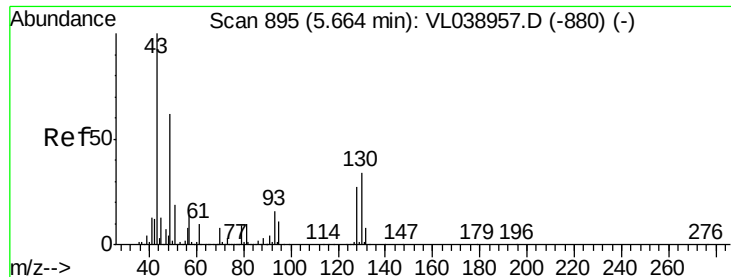
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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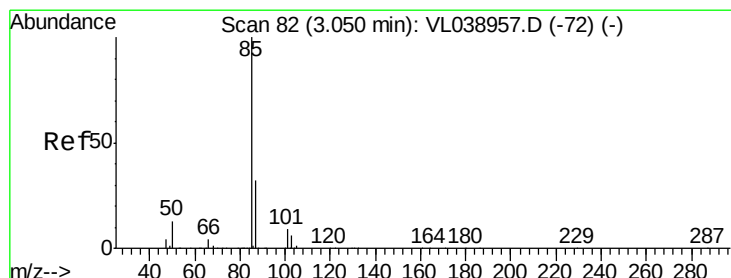
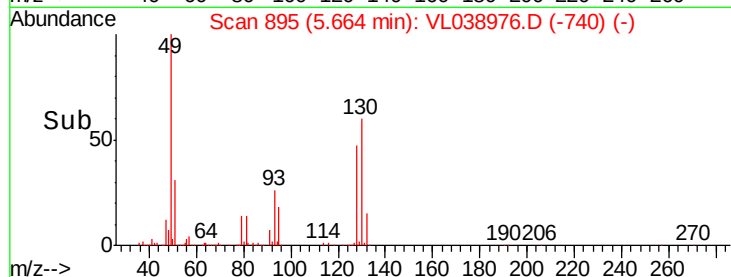
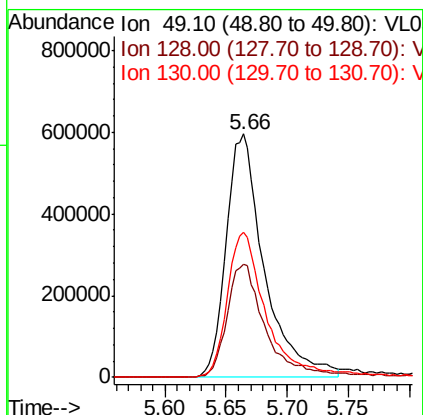
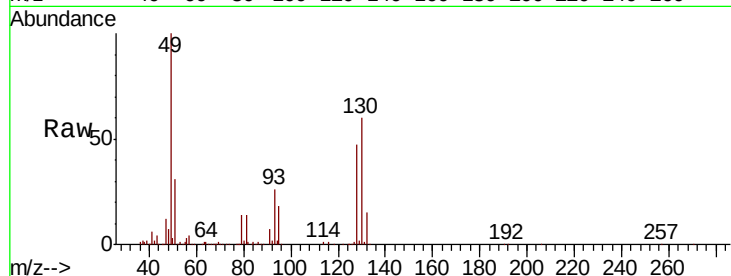
Quant Time: May 06 07:29:08 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
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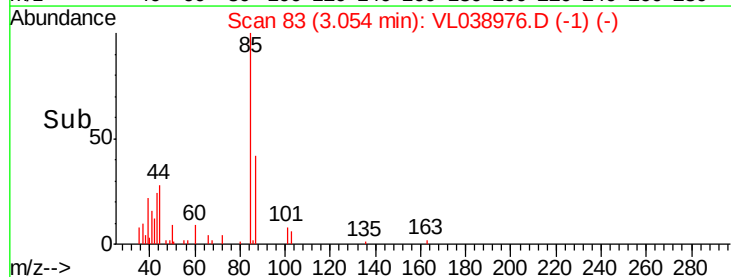
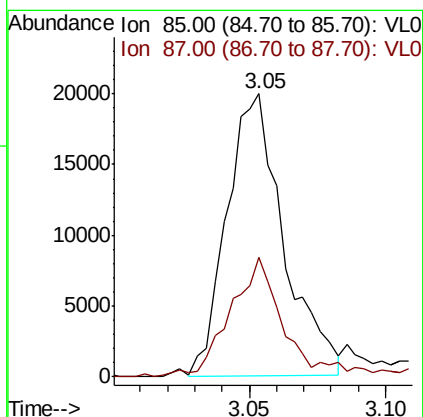
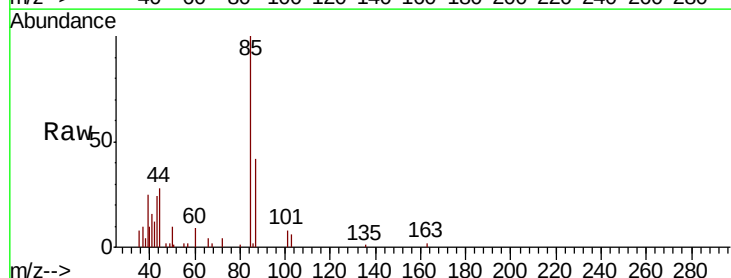
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SV2DL
 Acq: 5 May 2022 17:20

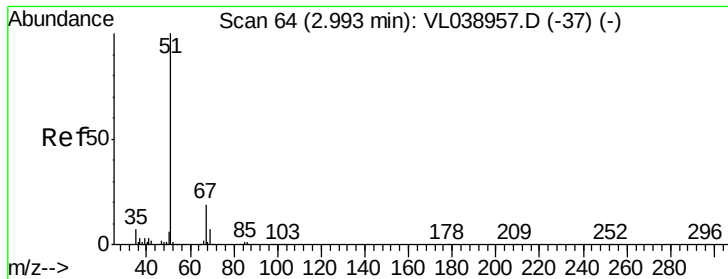
Tot Ion: 49 Resp: 1303271
 Ion Ratio Lower Upper
 49 100
 128 48.5 23.3 69.8
 130 62.0 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.141 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.00 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

Tgt Ion: 85 Resp: 28871
 Ion Ratio Lower Upper
 85 100
 87 41.4 25.7 38.5#





#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV2DL

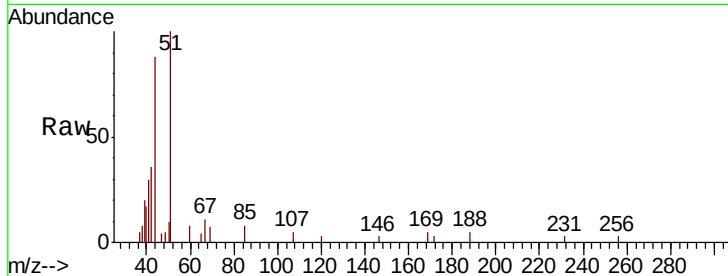
Acq: 5 May 2022 17:20

Tot Ion: 51 Resp: 10556

Ion Ratio Lower Upper

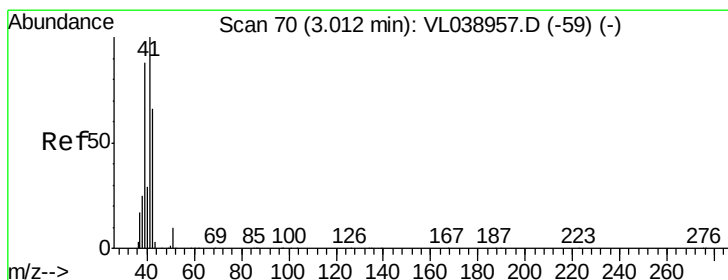
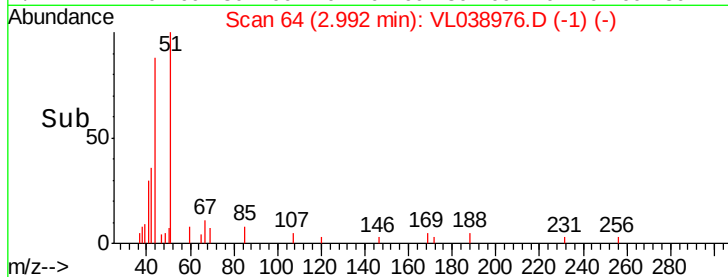
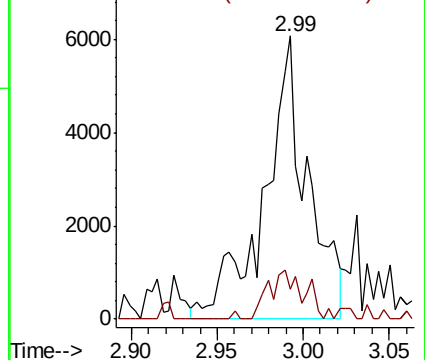
51 100

67 16.4 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.851 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL038976.D

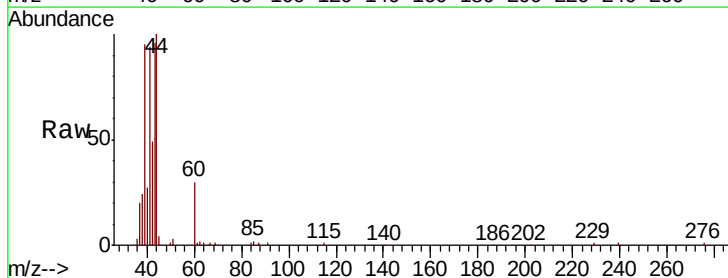
Acq: 5 May 2022 17:20

Tgt Ion: 41 Resp: 60101

Ion Ratio Lower Upper

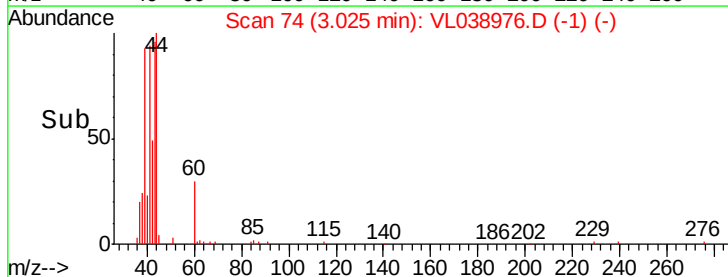
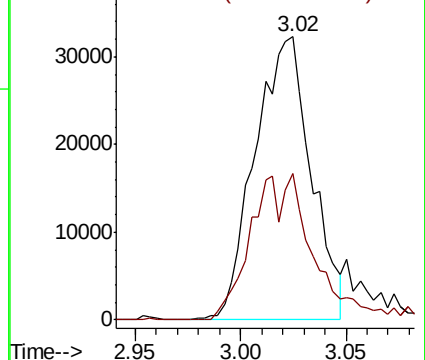
41 100

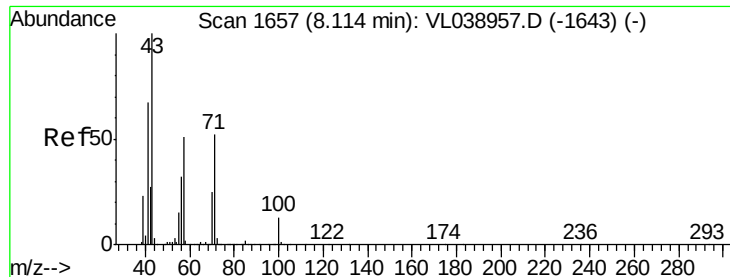
42 57.4 58.3 87.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.096 ppbv

RT: 8.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

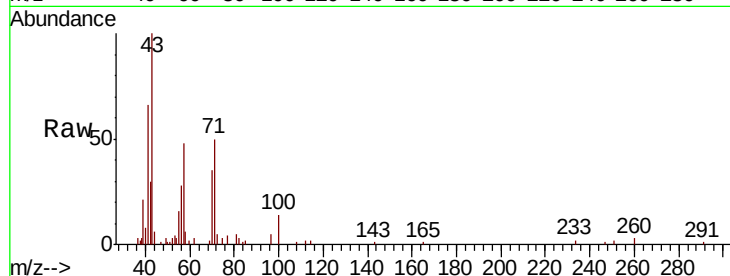
Acq: 5 May 2022 17:20 SV2DL

Tot Ion: 43 Resp: 16615

Ion Ratio Lower Upper

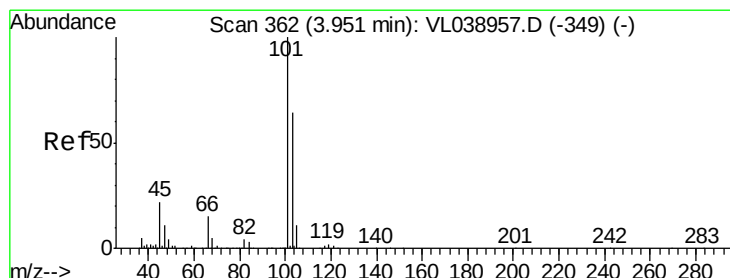
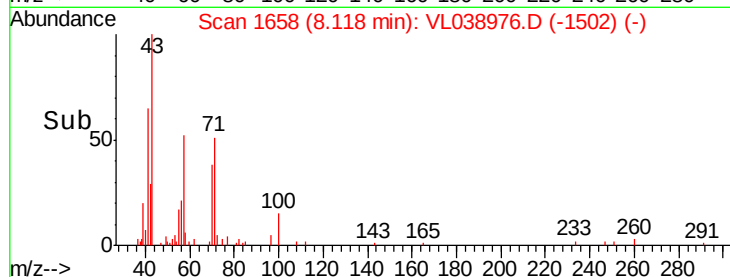
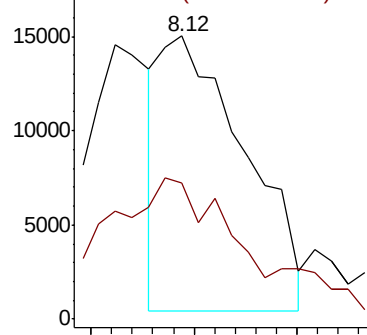
43 100

57 99.1 40.5 60.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.050 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.00 min

Lab File: VL038976.D

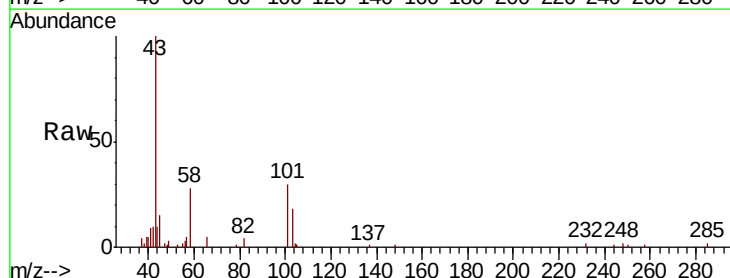
Acq: 5 May 2022 17:20

Tgt Ion:101 Resp: 8779

Ion Ratio Lower Upper

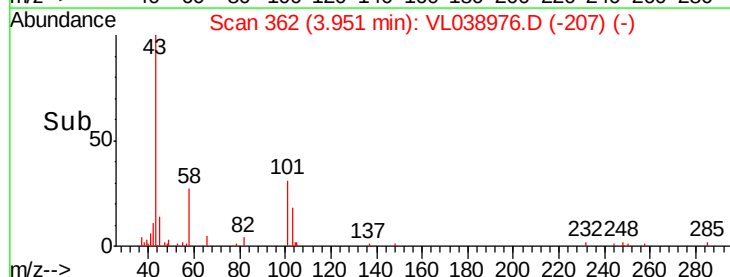
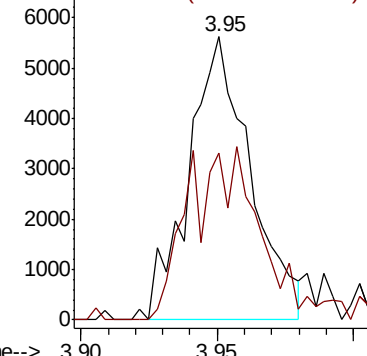
101 100

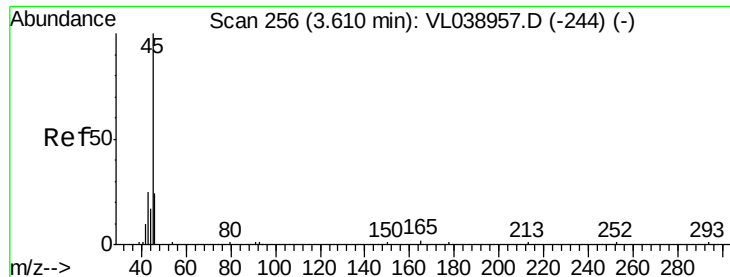
103 59.1 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

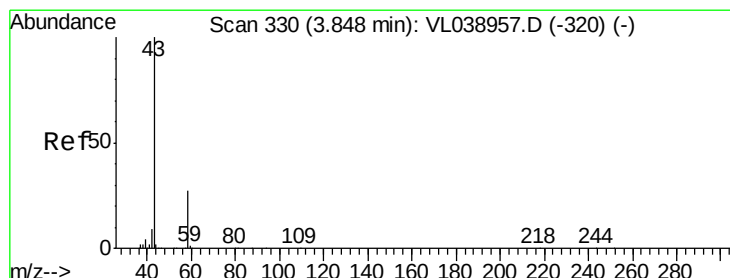
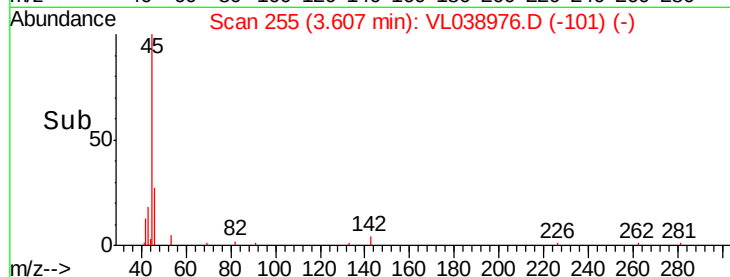
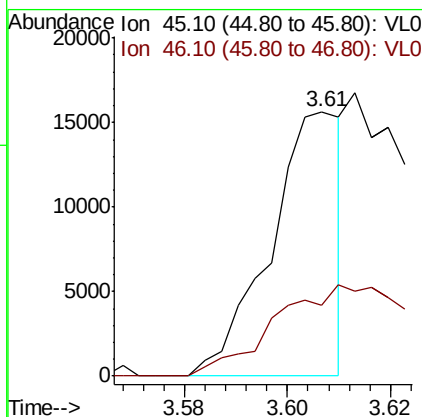
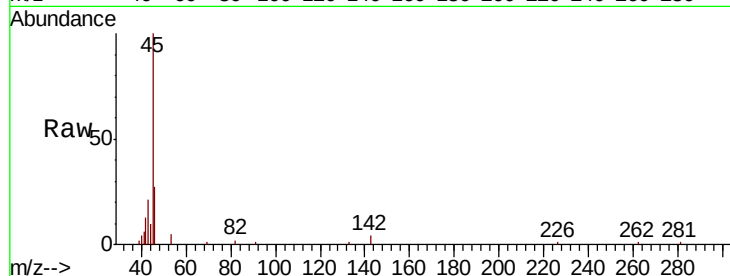
Ion 103.00 (102.70 to 103.70): V





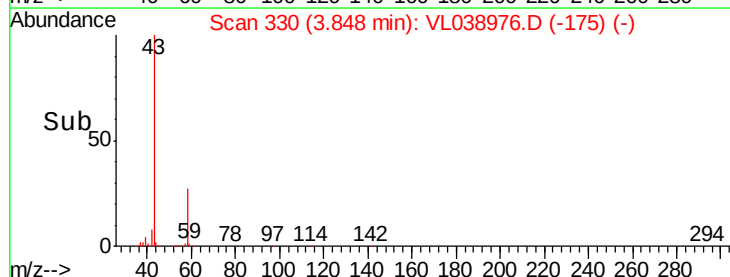
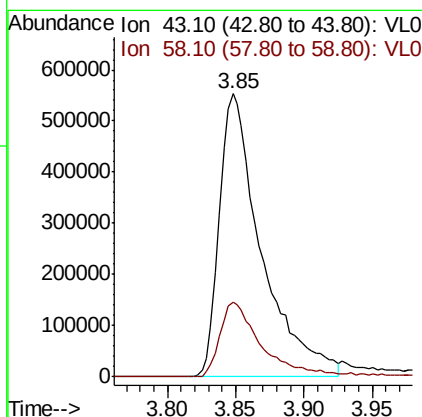
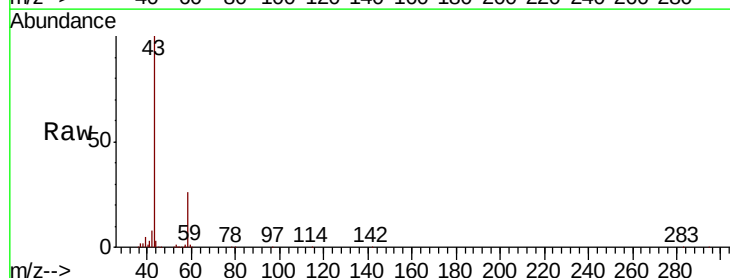
#13
Ethanol
Concen: 2.723 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2DL
Acq: 5 May 2022 17:20

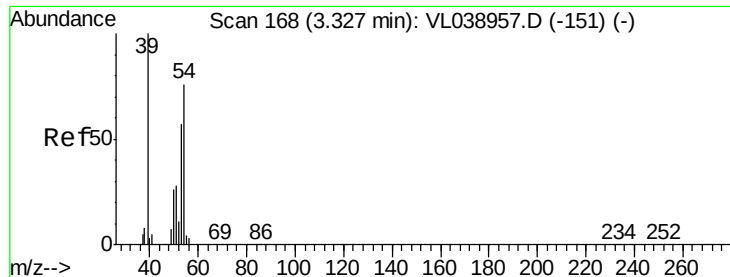
Tot Ion: 45 Resp: 15016
Ion Ratio Lower Upper
45 100
46 109.0 18.0 72.2#



#15
Acetone
Concen: 9.624 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

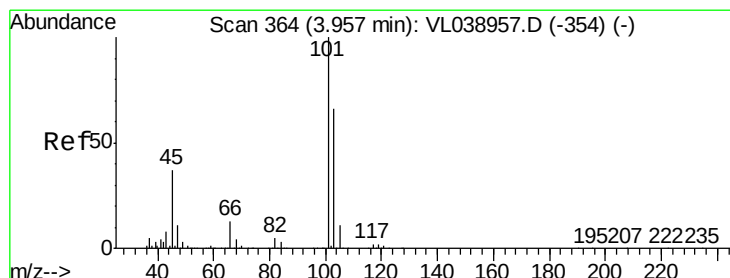
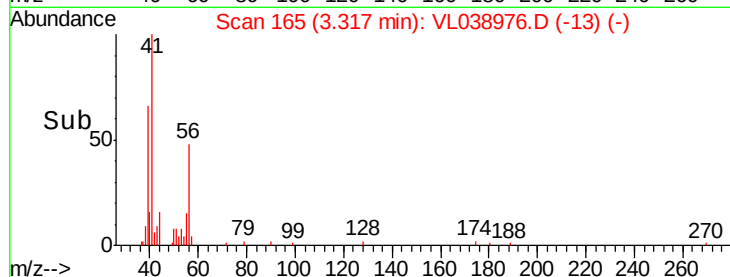
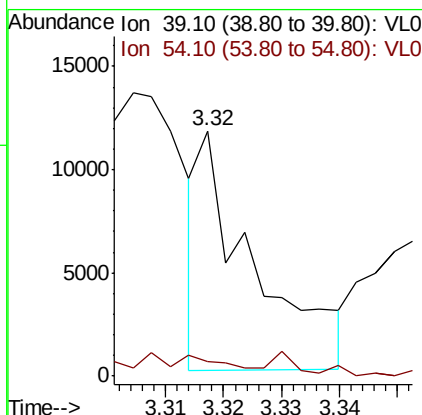
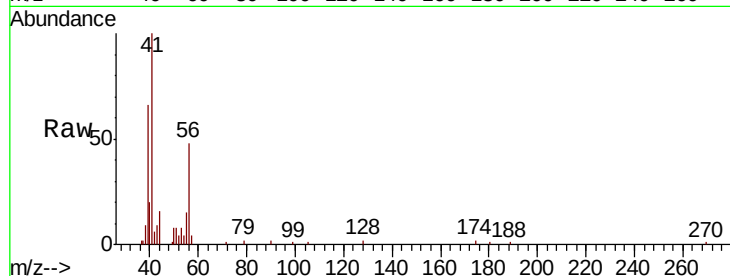
Tgt Ion: 43 Resp: 1183105
Ion Ratio Lower Upper
43 100
58 27.7 21.3 31.9





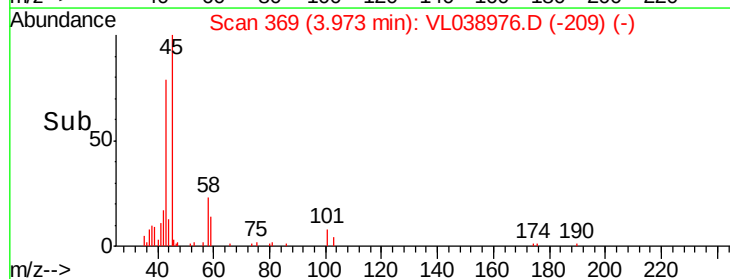
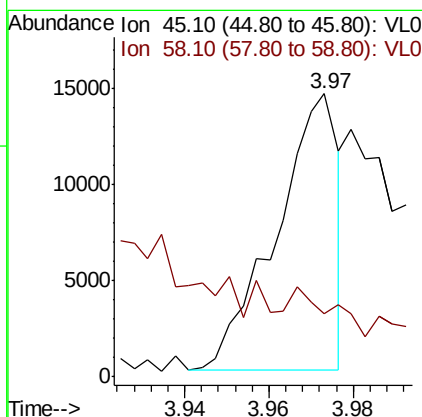
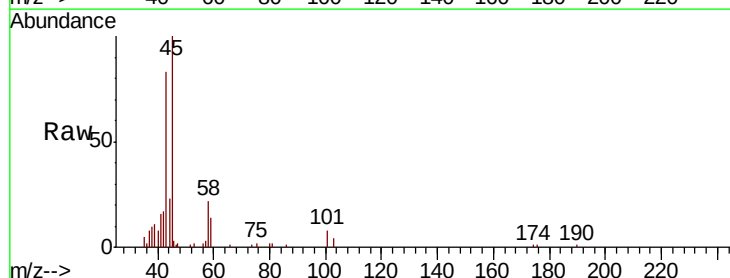
#16
 1,3-Butadiene
 Concen: 0.107 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2DL
 Acq: 5 May 2022 17:20

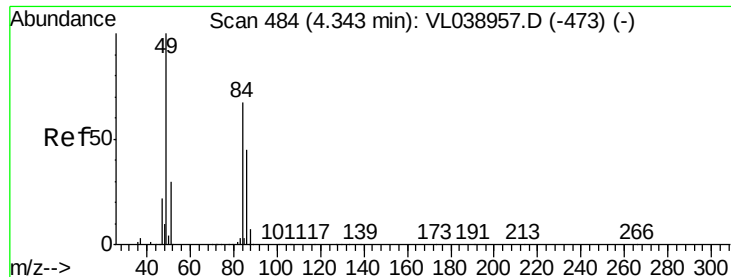
Tot Ion: 39 Resp: 7543
 Ion Ratio Lower Upper
 39 100
 54 21.8 65.2 97.8#



#19
 Isopropyl Alcohol
 Concen: 0.251 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

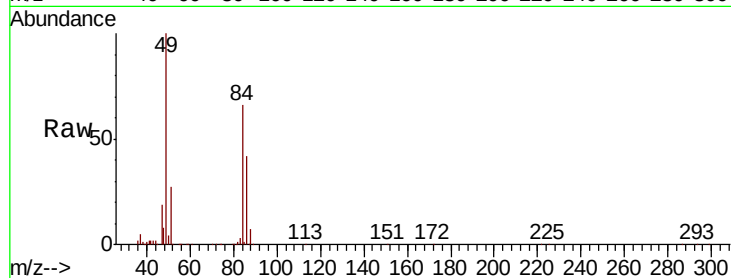
Tgt Ion: 45 Resp: 14650
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#



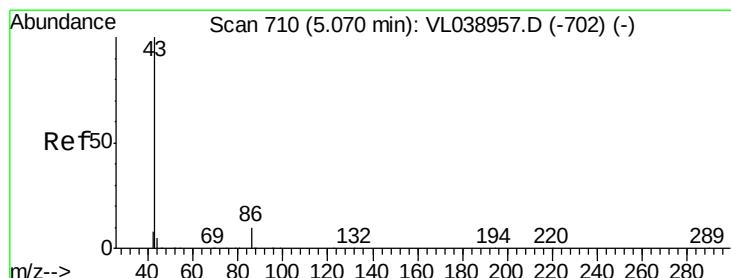
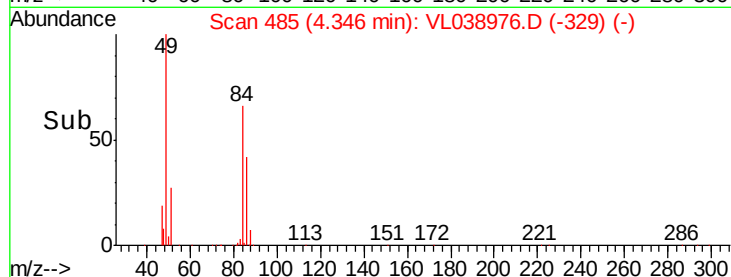
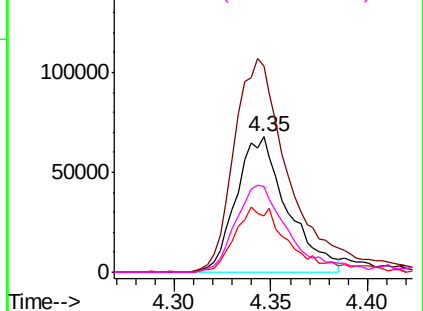


#20
Methvlene Chloride
Concen: 2.690 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2DL
Acq: 5 May 2022 17:20

Tot Ion:	84	Resp:	124655
Ion	Ratio	Lower	Upper
84	100		
49	151.7	119.9	179.9
51	41.0	35.7	53.5
86	63.6	53.8	80.6

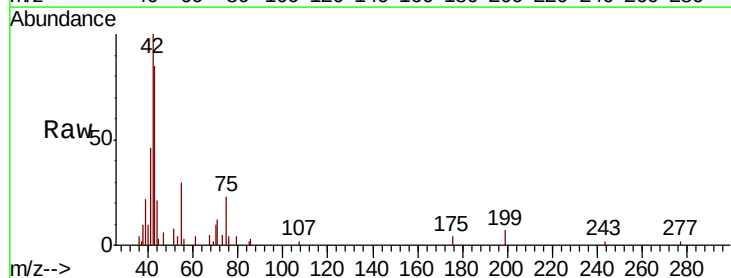


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

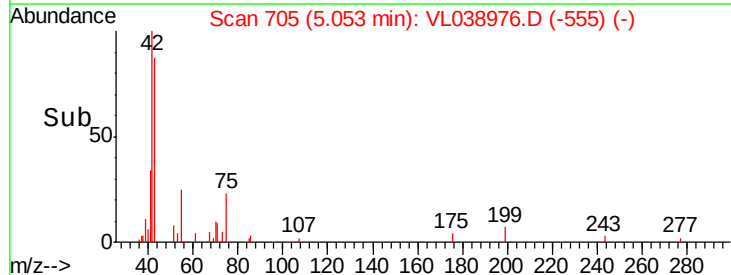
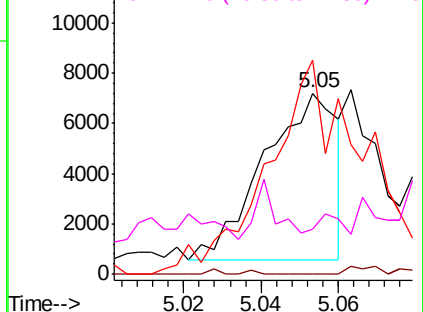


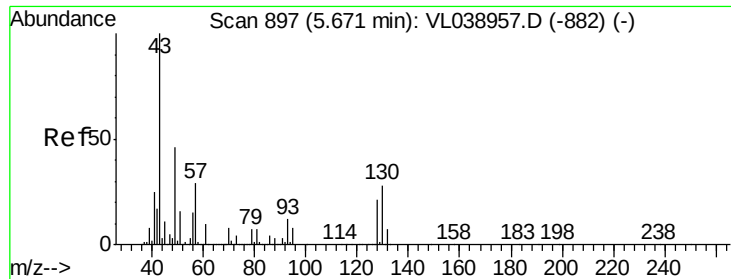
#23
Vinyl Acetate
Concen: 0.090 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

Tgt Ion:	43	Resp:	8706
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	110.6	8.1	12.1#
44	0.0	3.5	5.3#



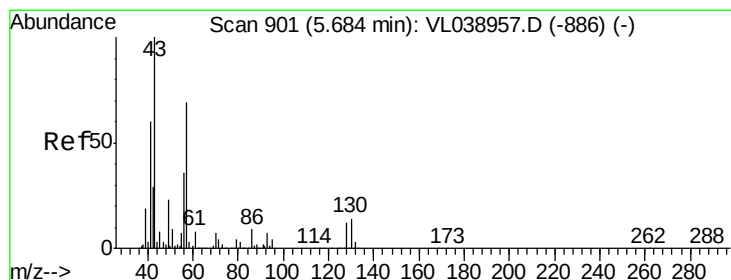
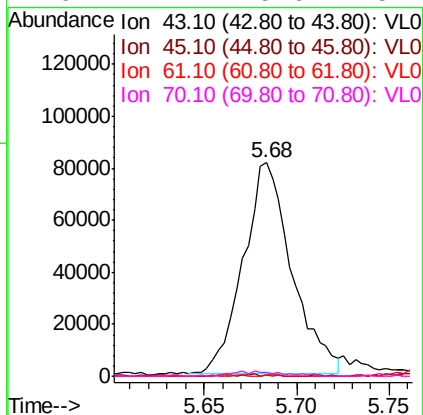
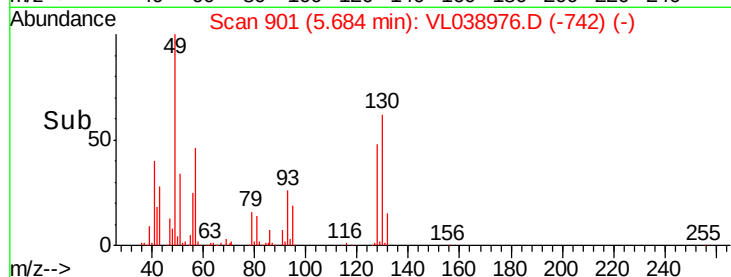
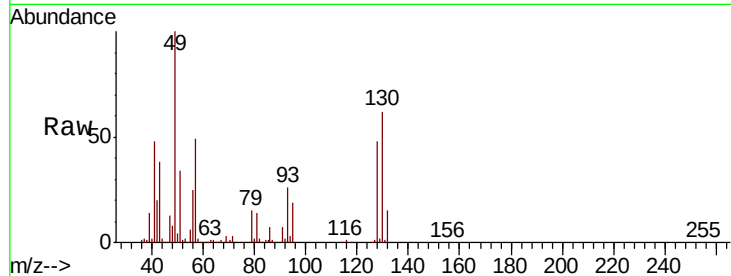
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





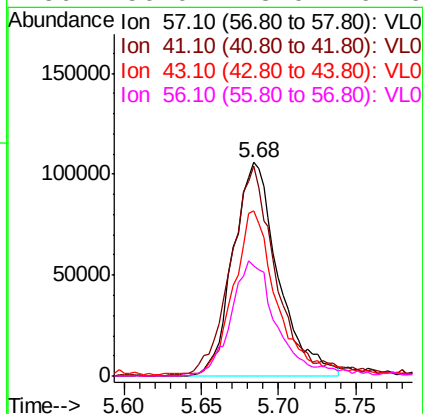
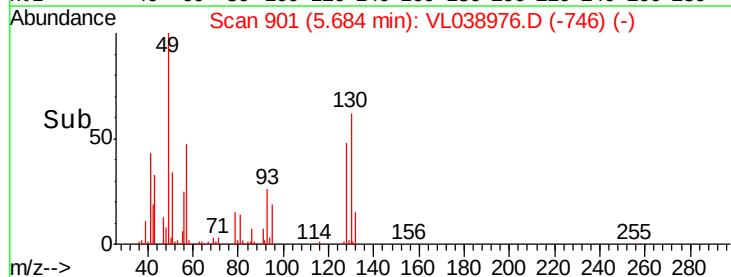
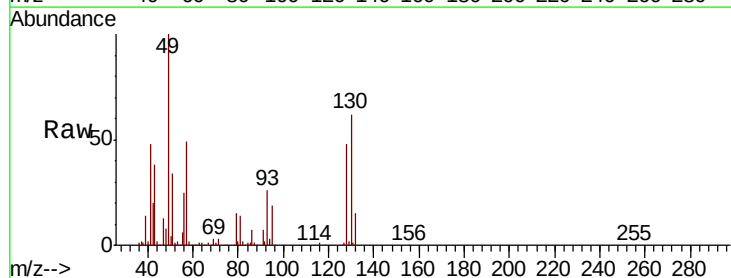
#25
Ethyl Acetate
Concen: 0.504 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV2DL
Acq: 5 May 2022 17:20

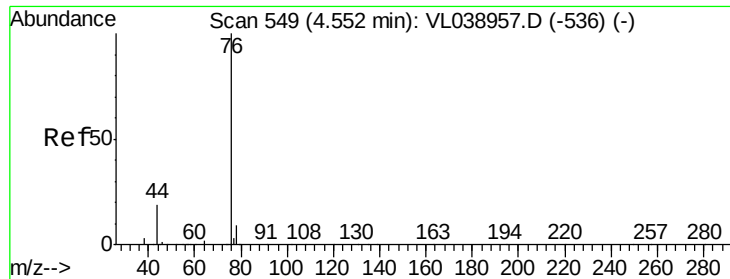
Tot Ion:	43	Resp:	148323
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.1	12.1#
61	0.4	7.8	11.6#
70	2.7	5.6	8.4#



#26
Hexane
Concen: 1.641 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

Tgt Ion:	57	Resp:	214546
Ion	Ratio	Lower	Upper
57	100		
41	101.9	75.2	112.8
43	73.2	190.8	286.2#
56	56.0	43.0	64.6





#27

Carbon Disulfide

Concen: 0.388 ppbv

RT: 4.55 Instrument: MSVOA_1

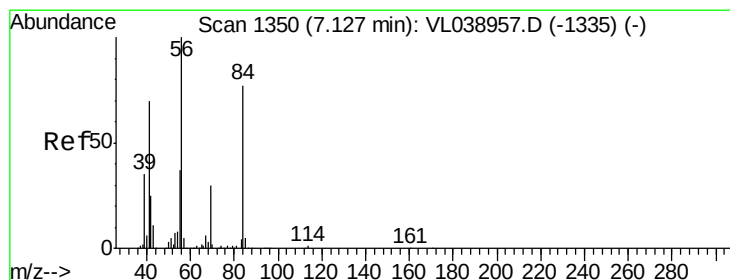
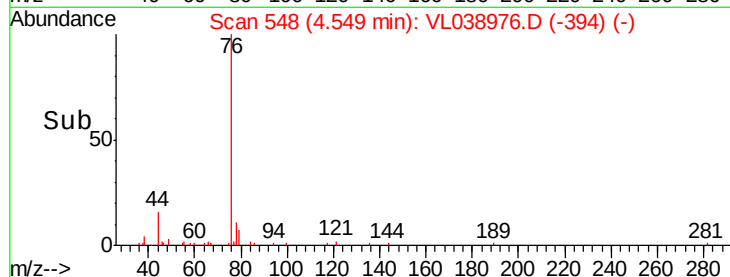
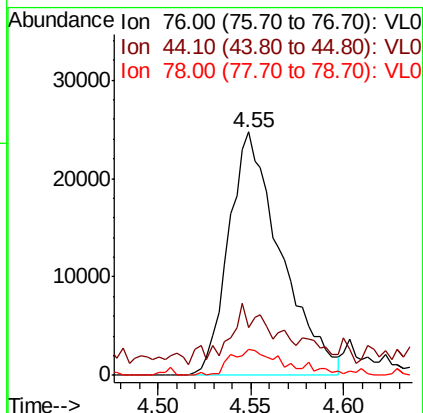
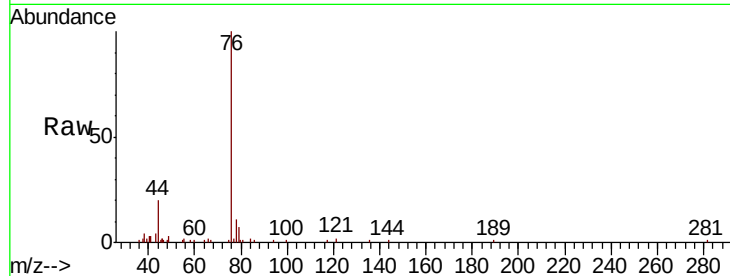
Delta R.T. ClientSampleId:

Lab File: SV2DL

Acq: 5 May 2022 17:20

Tot Ion: 76 Resp: 48249

Ion	Ratio	Lower	Upper
76	100		
44	30.9	15.3	22.9#
78	11.8	8.2	12.2



#30

Cyclohexane

Concen: 0.052 ppbv

RT: 7.12 min Scan# 1348

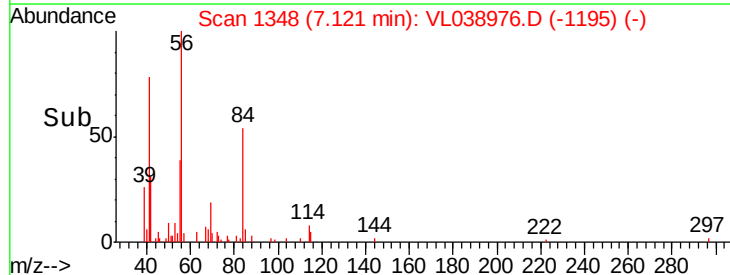
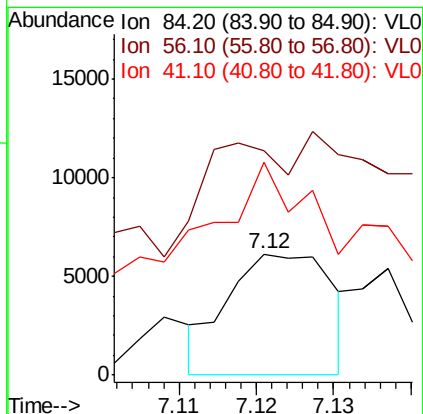
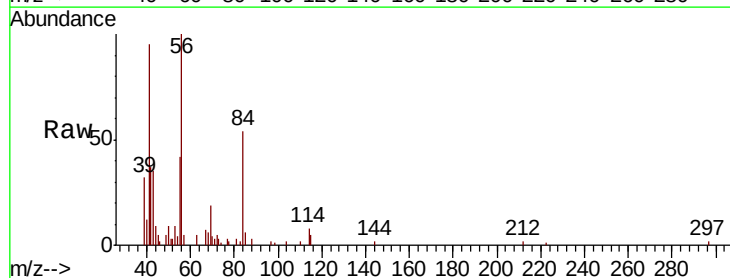
Delta R.T. -0.01 min

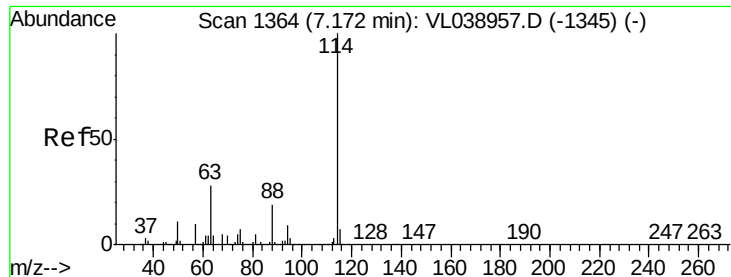
Lab File: VL038976.D

Acq: 5 May 2022 17:20

Tgt Ion: 84 Resp: 5738

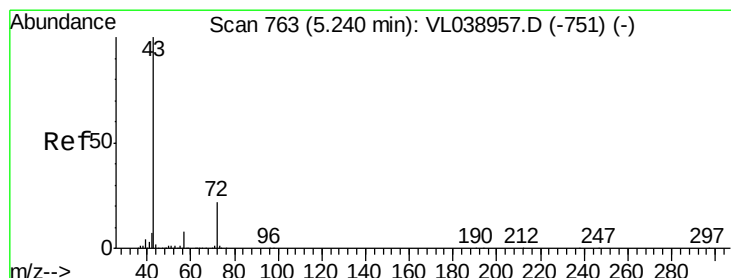
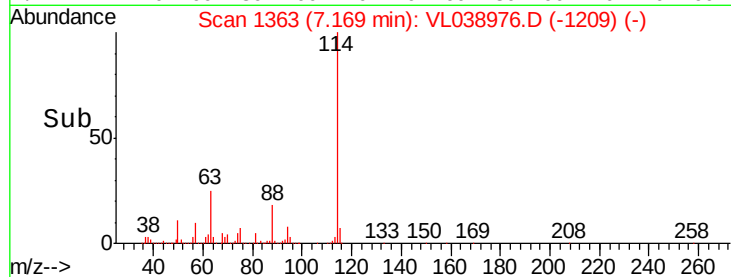
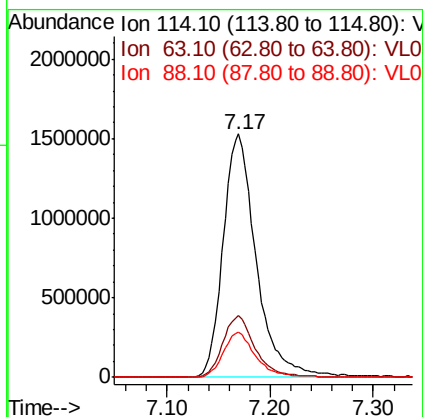
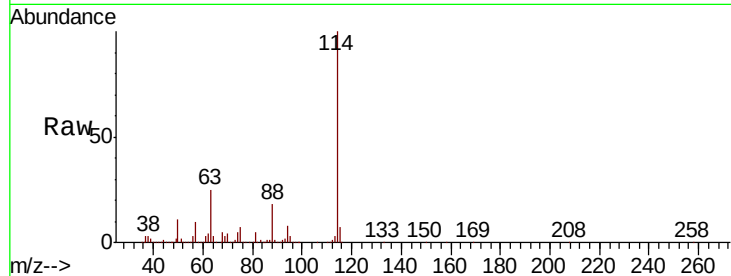
Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.3	172.9#
41	344.8	72.0	108.0#





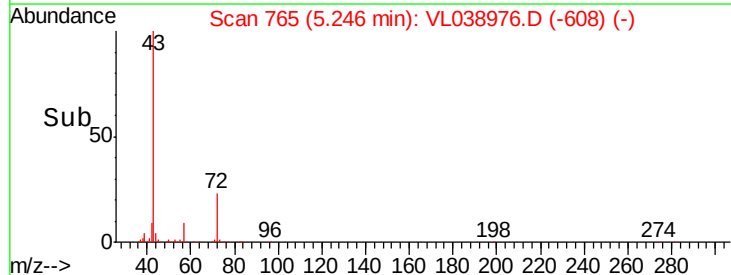
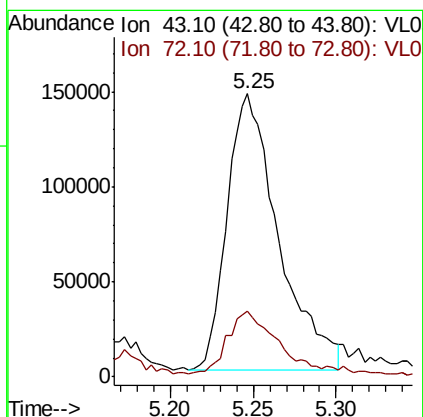
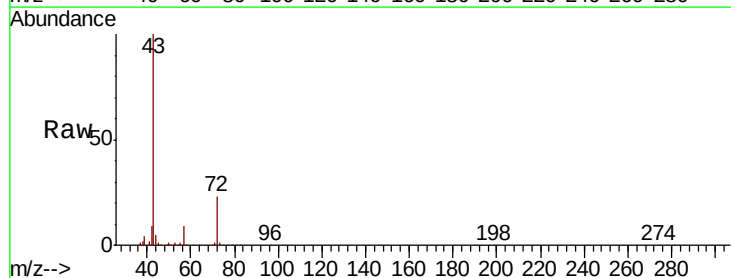
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2DL
 Acq: 5 May 2022 17:20

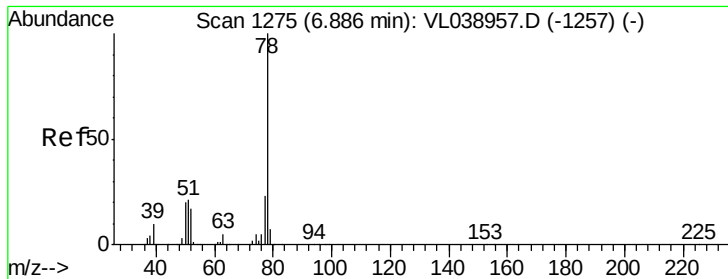
Tot Ion:114 Resp: 3408220
 Ion Ratio Lower Upper
 114 100
 63 25.4 22.6 33.8
 88 18.4 15.4 23.0



#34
 2-Butanone
 Concen: 1.796 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

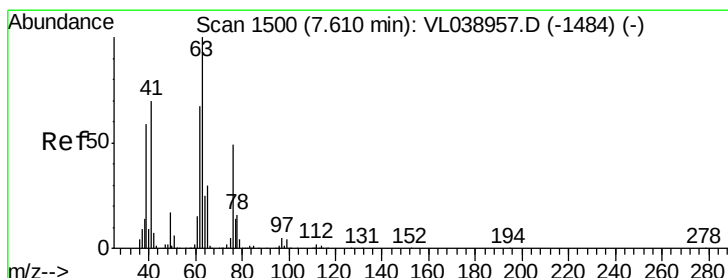
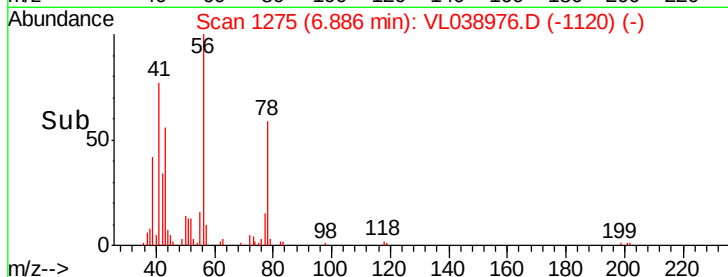
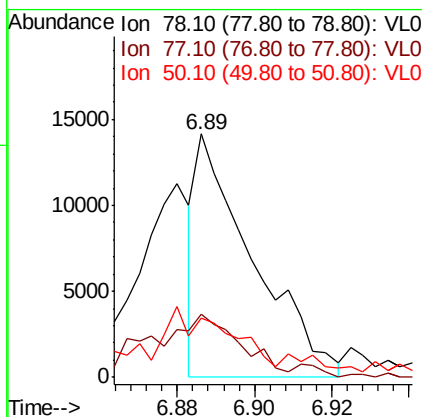
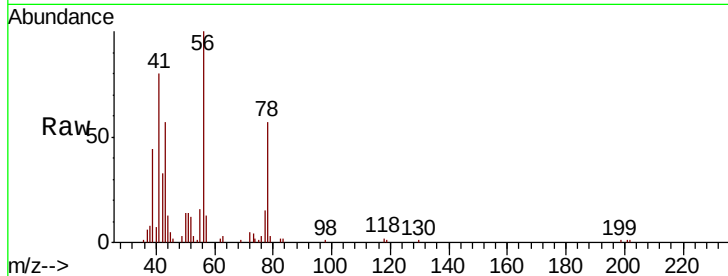
Tgt Ion: 43 Resp: 312289
 Ion Ratio Lower Upper
 43 100
 72 28.0 17.8 26.6#





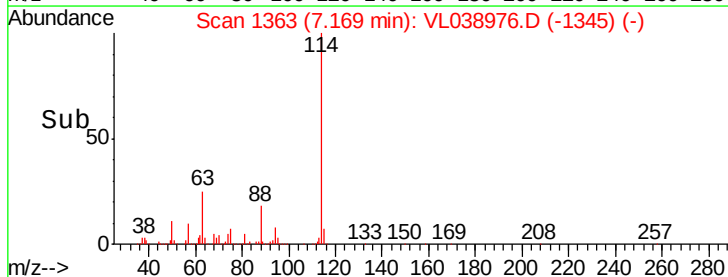
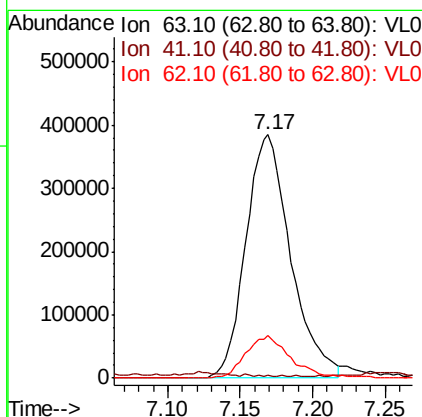
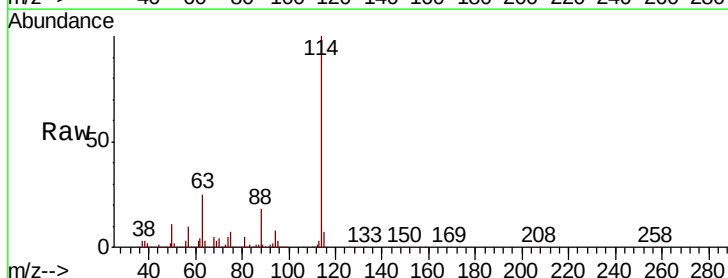
#36
Benzene
Concen: 0.049 ppbv
RT: 6.89
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV2DL
Acq: 5 May 2022 17:20

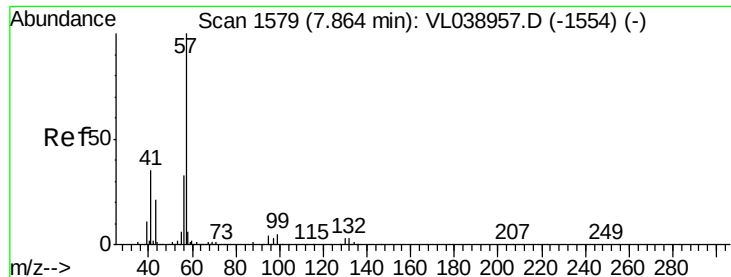
Tot Ion: 78 Resp: 14320
Ion Ratio Lower Upper
78 100
77 27.7 18.6 28.0
50 21.3 15.6 23.4



#39
1,2-Dichloropropane
Concen: 7.282 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.44 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

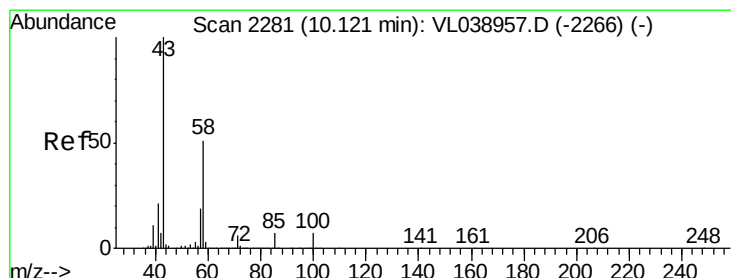
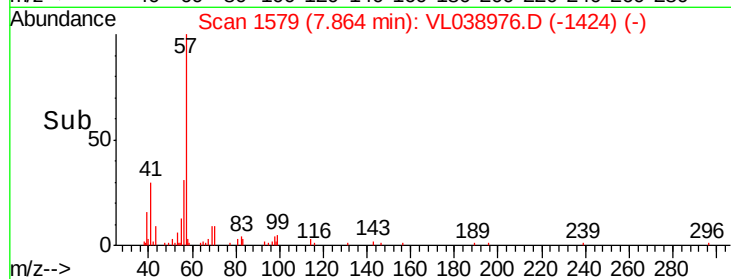
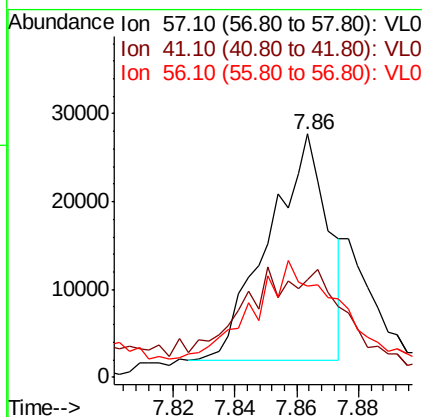
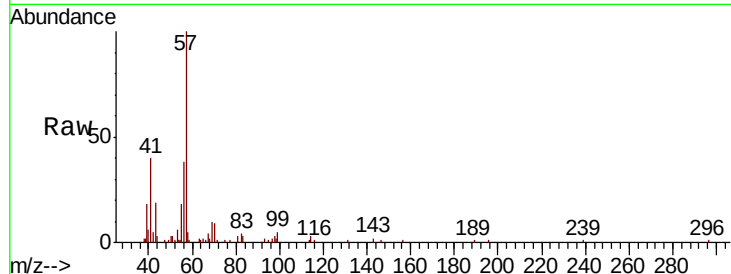
Tgt Ion: 63 Resp: 826401
Ion Ratio Lower Upper
63 100
41 0.0 55.9 83.9#
62 17.3 53.8 80.6#





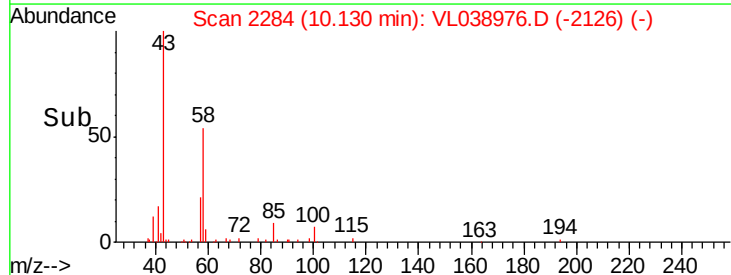
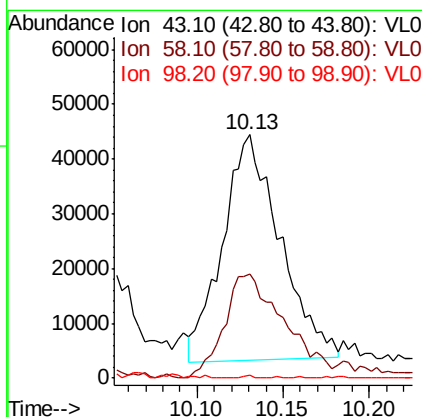
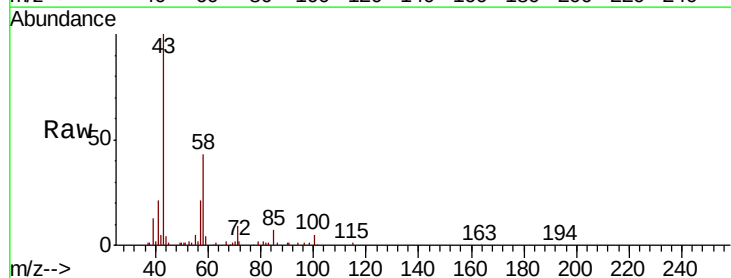
#44
 2,2,4-Trimethylpentane
 Concen: 0.067 ppbv
 RT: 7.86
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 17:20

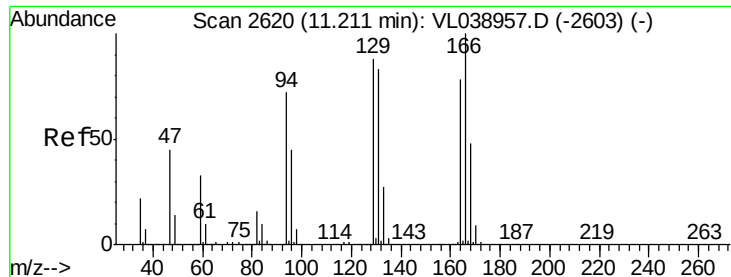
Tot Ion	57	Resp	34409
Ion Ratio	Lower	Upper	
57	100		
41	89.7	26.3	39.5#
56	88.7	24.6	37.0#



#51
 2-Hexanone
 Concen: 0.429 ppbv
 RT: 10.13 min Scan# 2284
 Delta R.T. 0.01 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

Tgt Ion	43	Resp	95458
Ion Ratio	Lower	Upper	
43	100		
58	53.9	39.3	58.9
98	0.2	0.2	0.2





#52

Tetrachloroethene

Concen: 1.414 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 17:20

Tot Ion:164 Resp: 147392

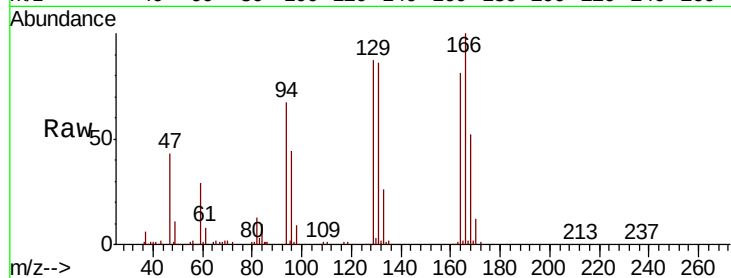
Ion Ratio Lower Upper

164 100

166 122.0 102.5 153.7

129 107.1 90.1 135.1

131 104.9 84.8 127.2



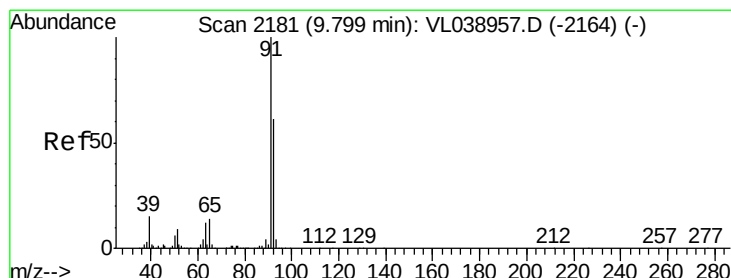
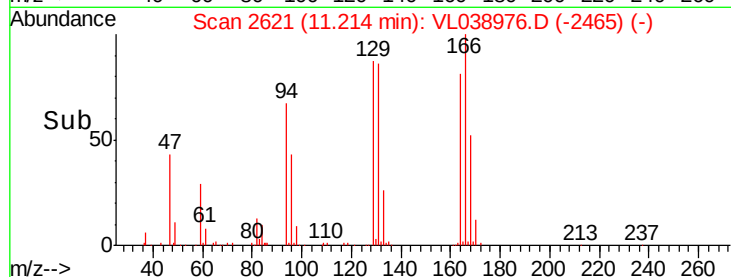
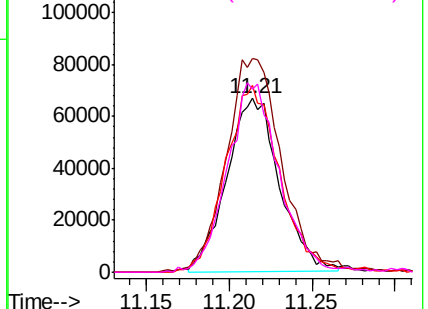
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.276 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL038976.D

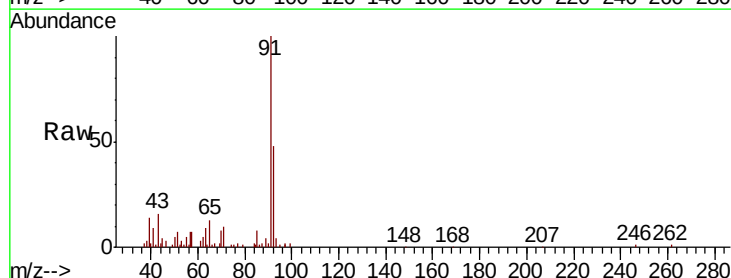
Acq: 5 May 2022 17:20

Tgt Ion: 91 Resp: 90256

Ion Ratio Lower Upper

91 100

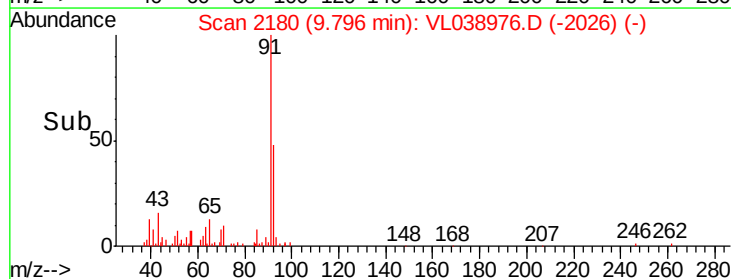
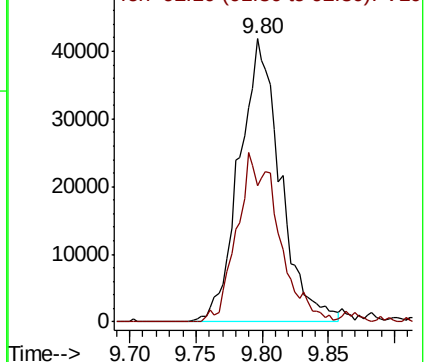
92 60.5 48.2 72.2

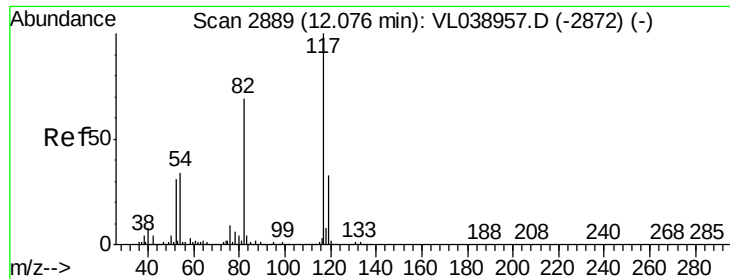


Abundance

Ion 91.10 (90.80 to 91.80): VL0

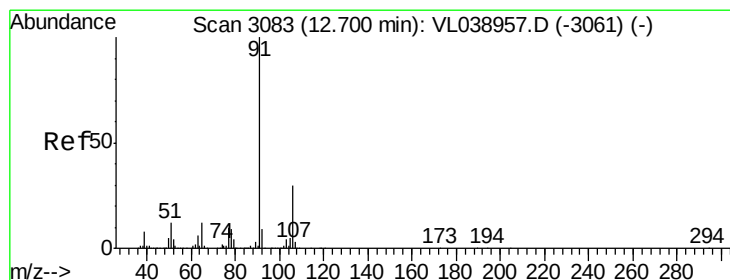
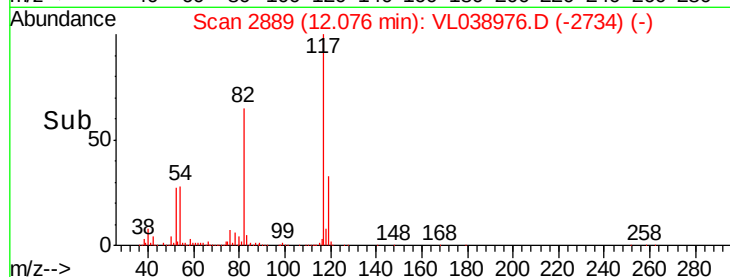
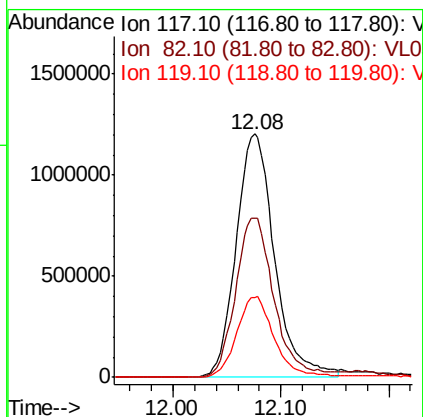
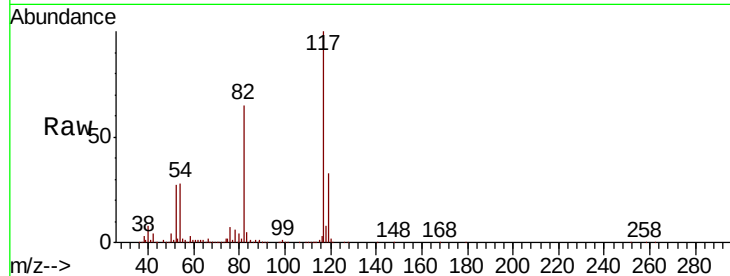
Ion 92.10 (91.80 to 92.80): VL0





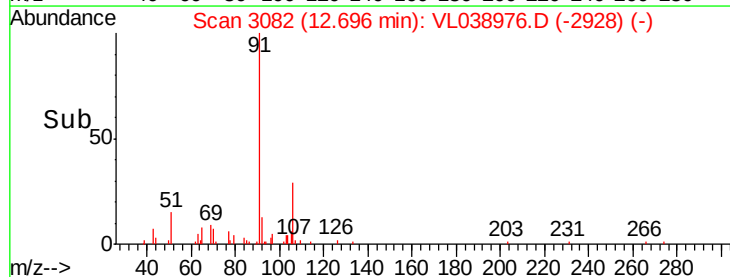
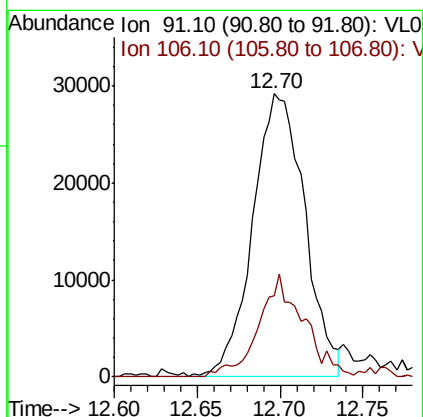
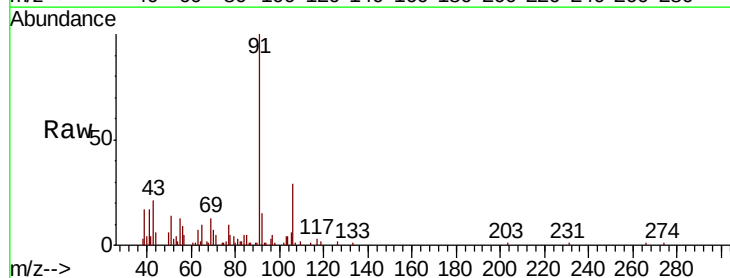
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV2DL
Acq: 5 May 2022 17:20

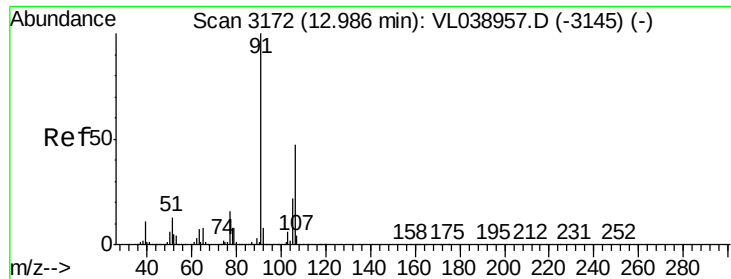
Tot Ion:117 Resp: 2986947
Ion Ratio Lower Upper
117 100
82 65.6 57.0 85.6
119 33.7 27.2 40.8



#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 12.70 min Scan# 3082
Delta R.T. -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

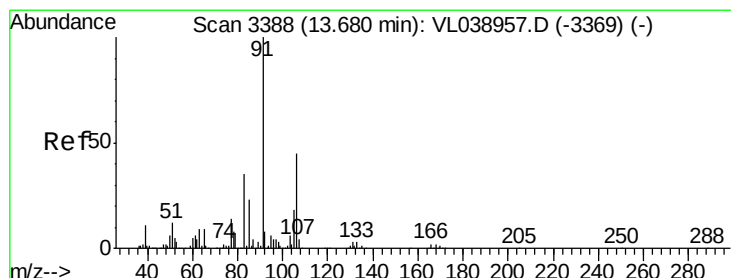
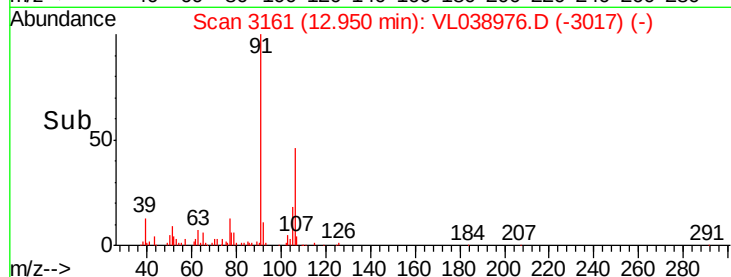
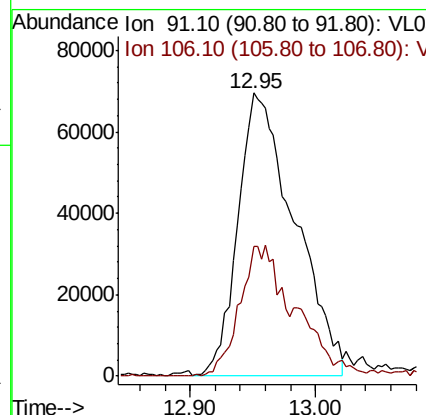
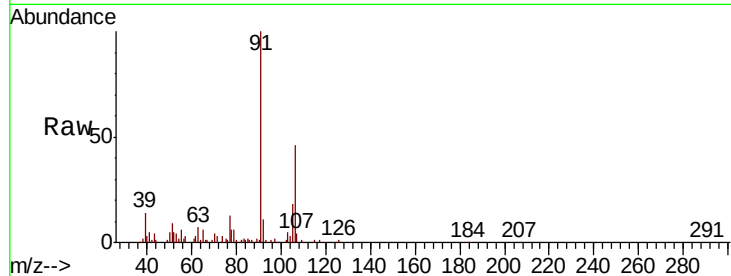
Tgt Ion: 91 Resp: 63839
Ion Ratio Lower Upper
91 100
106 28.6 24.2 36.4





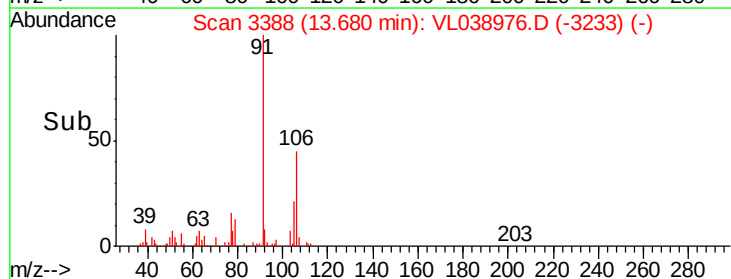
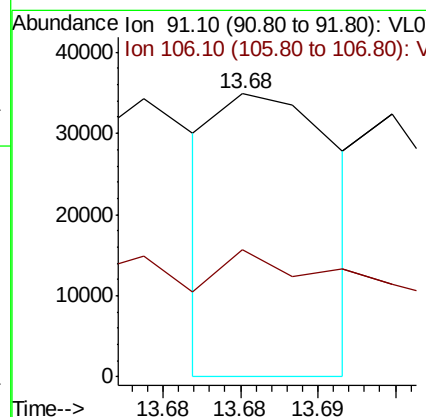
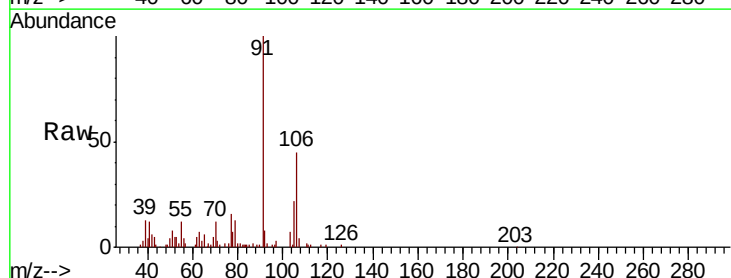
#59
m/p-Xylene
Concen: 0.591 ppbv
RT: 12.95
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 17:20

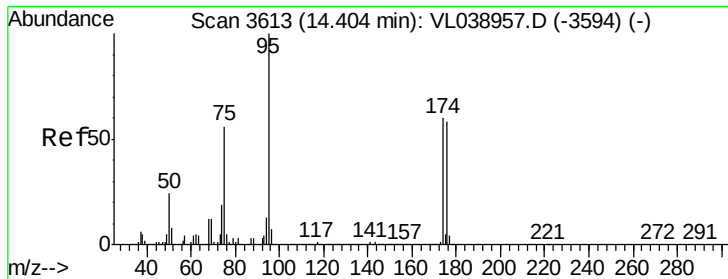
Tot Ion: 91 Resp: 216827
Ion Ratio Lower Upper
91 100
106 46.7 34.6 52.0



#60
o-Xylene
Concen: 0.053 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

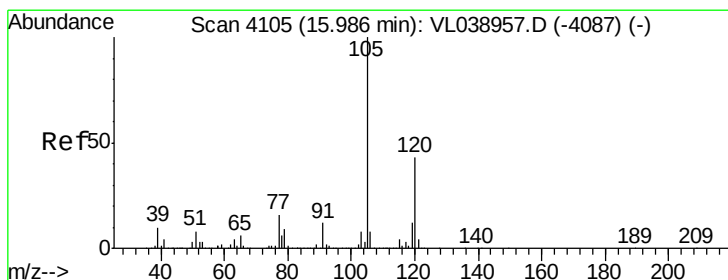
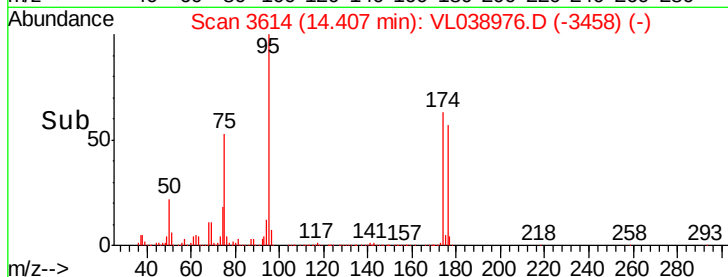
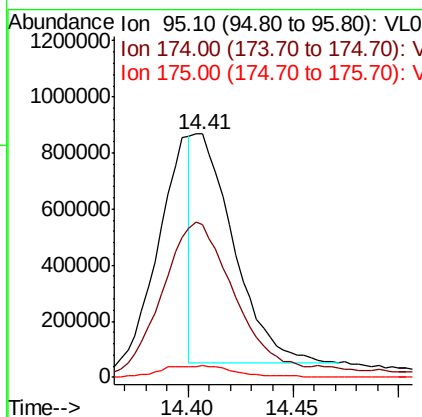
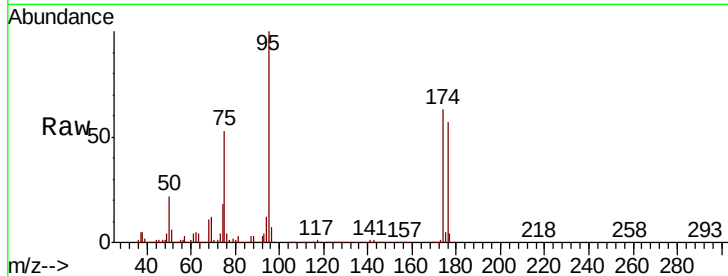
Tgt Ion: 91 Resp: 18452
Ion Ratio Lower Upper
91 100
106 188.5 22.2 66.6#





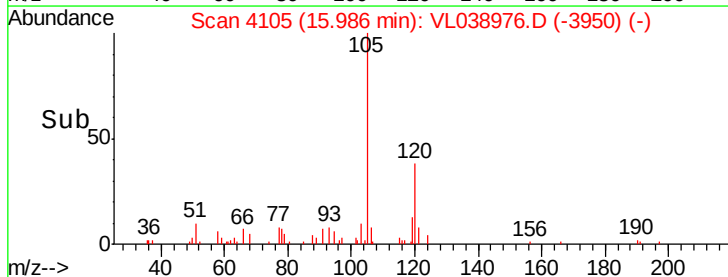
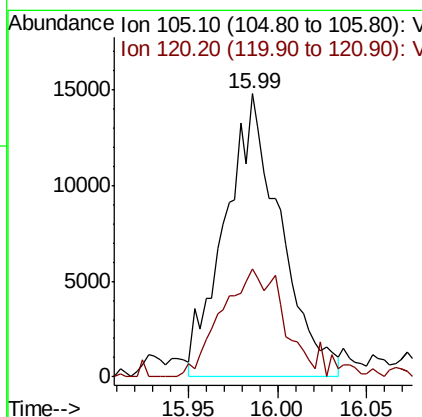
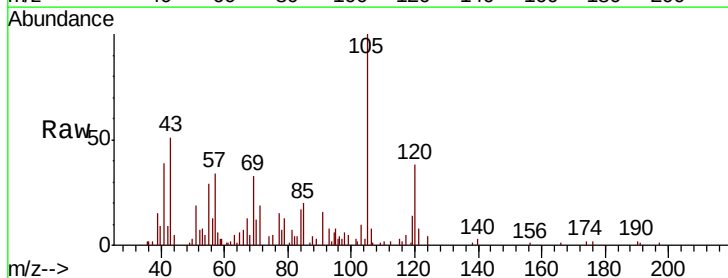
#68
 1-Bromo-4-Fluorobenzene
 Concen: 4.640 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV2DL
 Acq: 5 May 2022 17:20

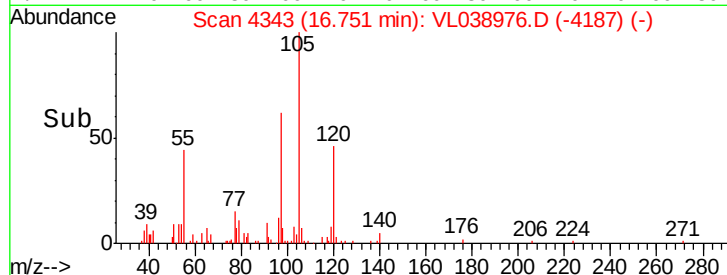
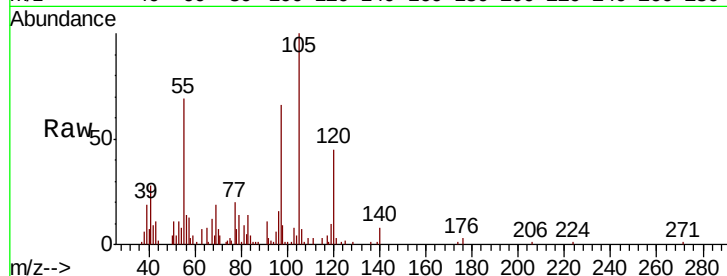
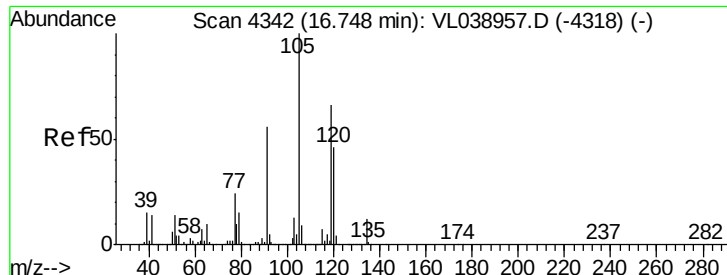
Tot Ion: 95 Resp: 1097673
 Ion Ratio Lower Upper
 95 100
 174 137.1 50.8 76.2#
 175 10.0 3.8 5.6#



#73
 1,3,5-Trimethylbenzene
 Concen: 0.090 ppbv
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

Tgt Ion: 105 Resp: 32035
 Ion Ratio Lower Upper
 105 100
 120 36.4 34.4 51.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV2DL
 Acq: 5 May 2022 17:20

Tot Ion:	105	Resp:	40633
Ion Ratio	Lower	Upper	
105	100		
120	42.4	36.9	55.3
91	9.8	45.0	67.4#
77	20.7	19.2	28.8

