

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038979.D
 Acq On : 5 May 2022 19:21
 Operator : SY/AP
 Sample : N2698-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 06 07:29:44 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	1157276	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2939162	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2489665	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1808502	9.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.70%

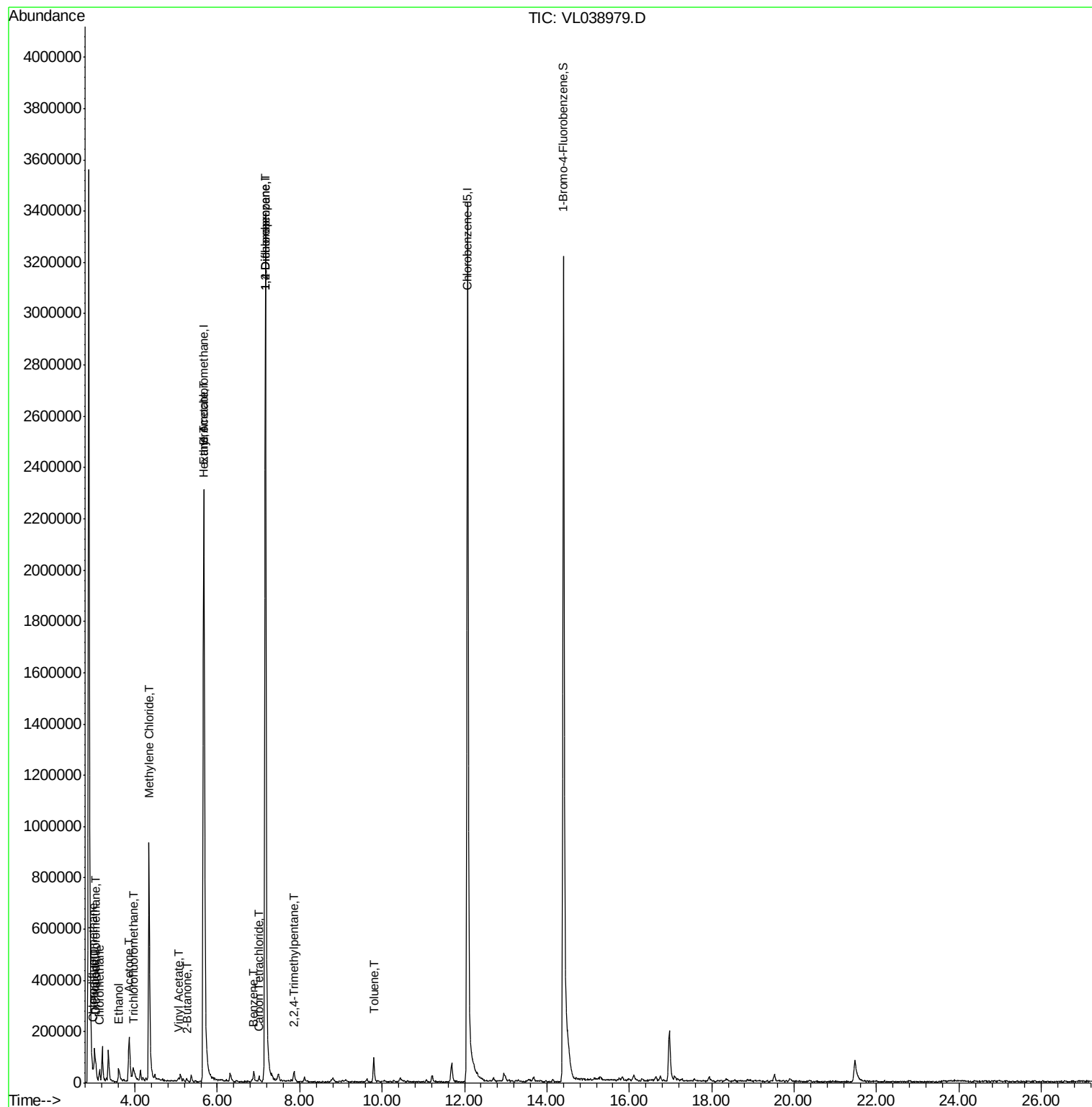
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	52241	0.288 ppbv	98
3) Chlorodifluoromethane	2.99	51	68476	0.477 ppbv #	85
4) Chloromethane	3.14	50	34989	0.487 ppbv	89
9) Propene	3.02	41	7769	0.124 ppbv #	1
11) Trichlorofluoromethane	3.94	101	15243	0.098 ppbv	99
13) Ethanol	3.61	45	29722	6.069 ppbv #	11
15) Acetone	3.85	43	210215	1.926 ppbv	93
20) Methylene Chloride	4.34	84	382029	9.285 ppbv	89
23) Vinyl Acetate	5.07	43	3405	0.039 ppbv #	15
25) Ethyl Acetate	5.68	43	352501	1.349 ppbv #	77
26) Hexane	5.68	57	506313	4.361 ppbv #	38
34) 2-Butanone	5.25	43	9623	0.064 ppbv #	18
35) Carbon Tetrachloride	7.01	117	7562	0.039 ppbv #	62
36) Benzene	6.88	78	17889	0.071 ppbv #	85
39) 1,2-Dichloropropane	7.17	63	741332	7.575 ppbv #	25
44) 2,2,4-Trimethylpentane	7.86	57	21187	0.048 ppbv #	36
53) Toluene	9.80	91	41240	0.146 ppbv #	51

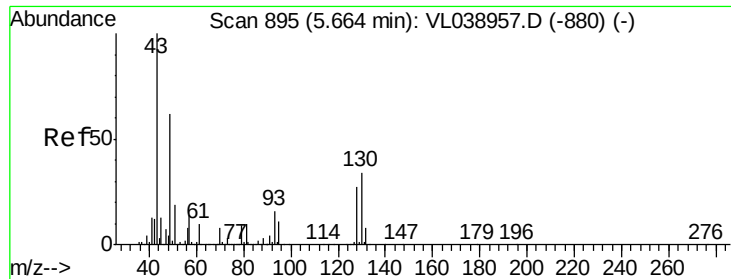
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
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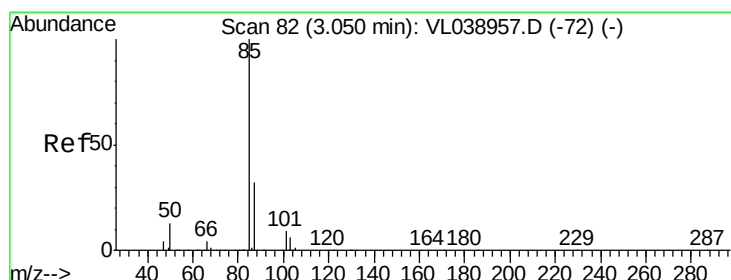
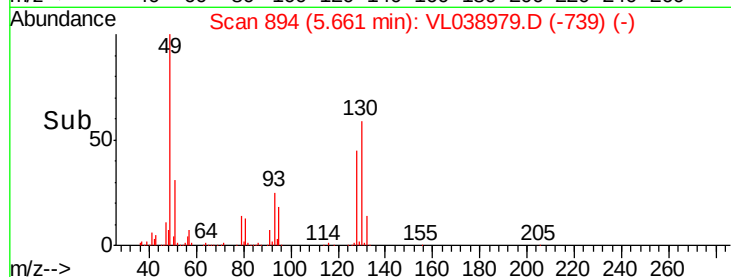
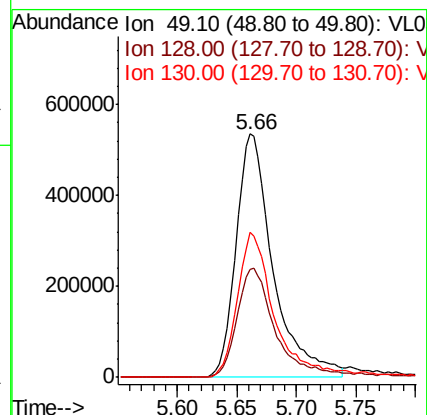
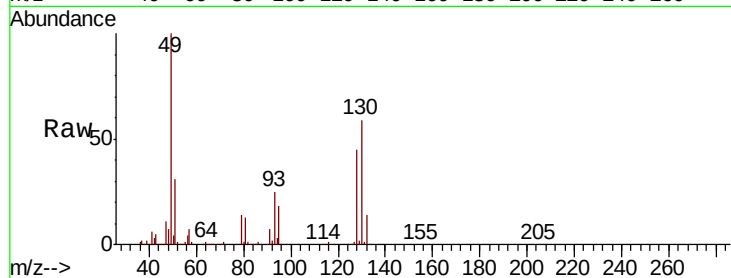
Quant Time: May 06 07:29:44 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
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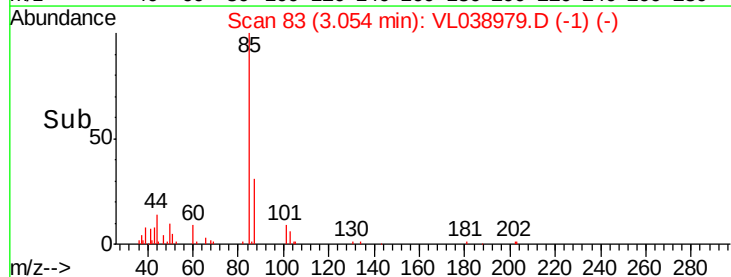
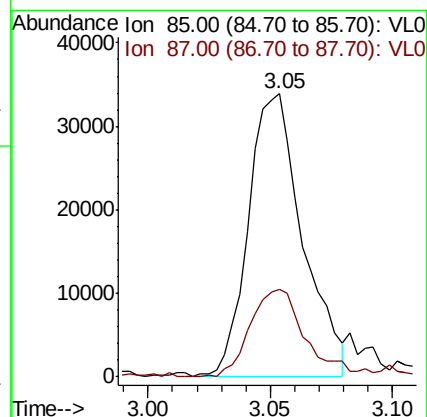
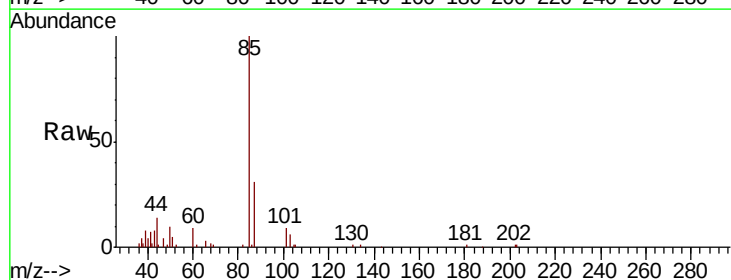
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 5 May 2022 19:21

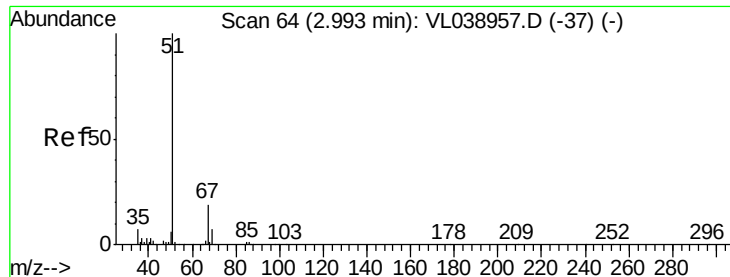
Tot Ion: 49 Resp: 1157276
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.3 69.8
 130 61.5 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.288 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.00 min
 Lab File: VL038979.D
 Acq: 5 May 2022 19:21

Tgt Ion: 85 Resp: 52241
 Ion Ratio Lower Upper
 85 100
 87 30.8 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.477 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

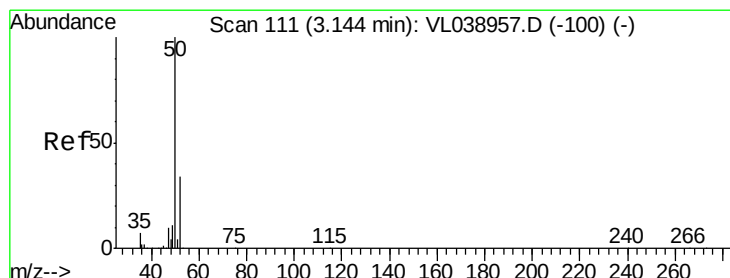
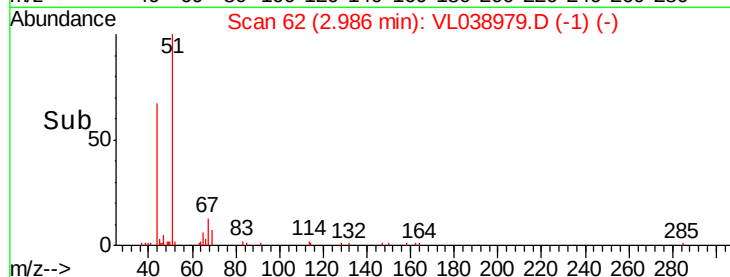
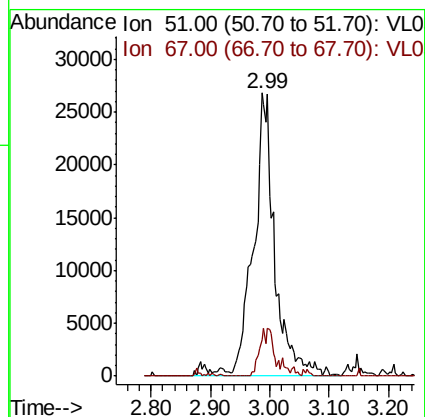
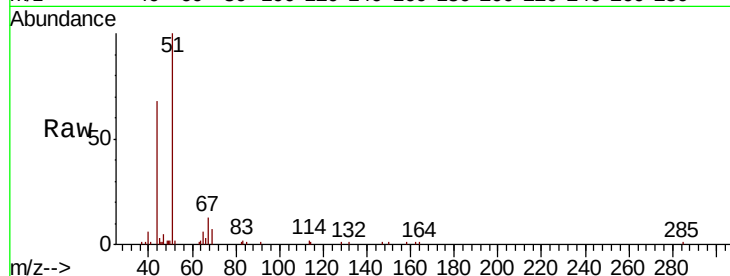
Acq: 5 May 2022 19:21

Tot Ion: 51 Resp: 68476

Ion Ratio Lower Upper

51 100

67 13.2 15.8 23.8#



#4

Chloromethane

Concen: 0.487 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL038979.D

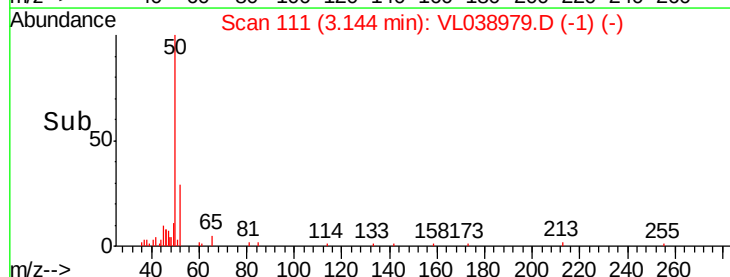
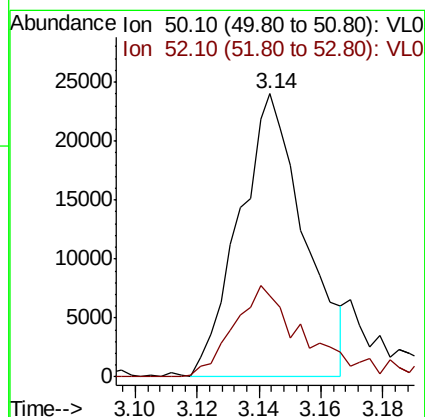
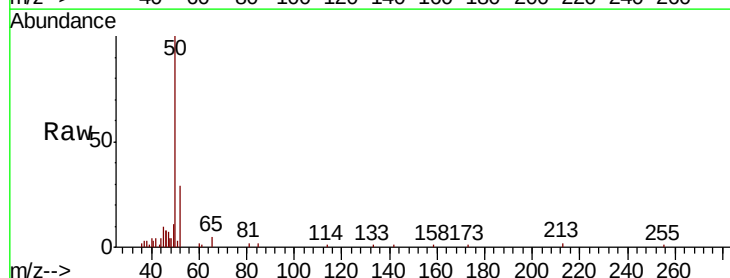
Acq: 5 May 2022 19:21

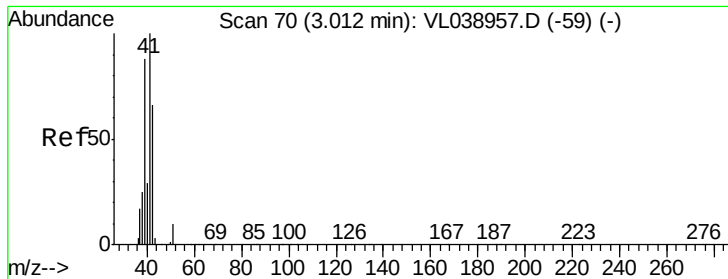
Tgt Ion: 50 Resp: 34989

Ion Ratio Lower Upper

50 100

52 28.1 27.3 40.9





#9

Propene

Concen: 0.124 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

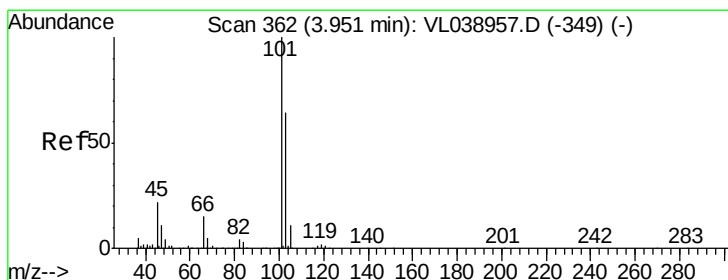
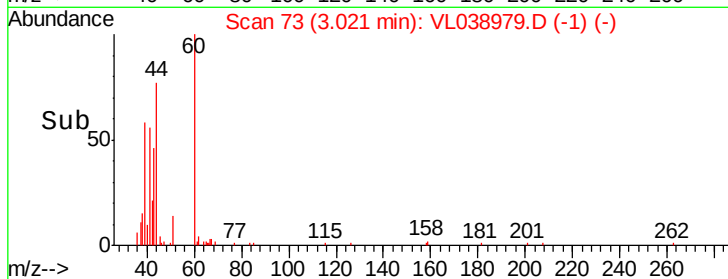
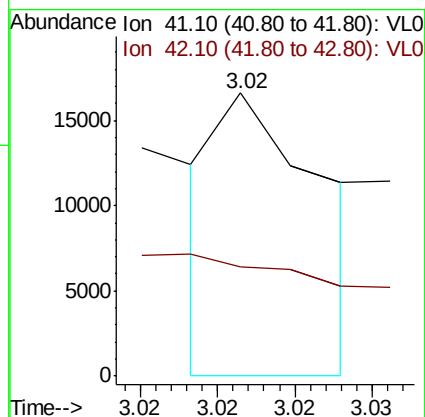
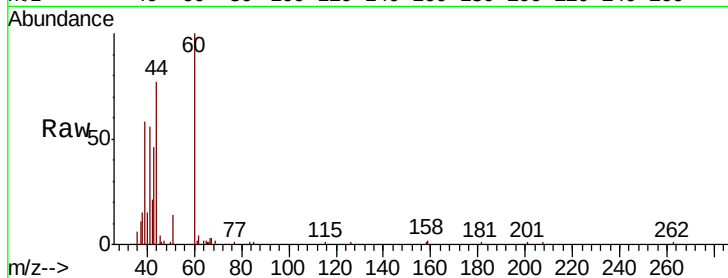
Acq: 5 May 2022 19:21

Tot Ion: 41 Resp: 7769

Ion Ratio Lower Upper

41 100

42 201.6 58.3 87.5#



#11

Trichlorofluoromethane

Concen: 0.098 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL038979.D

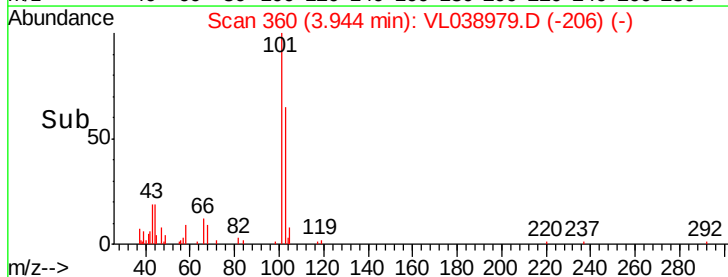
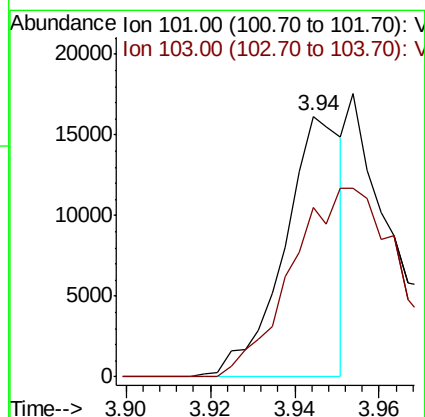
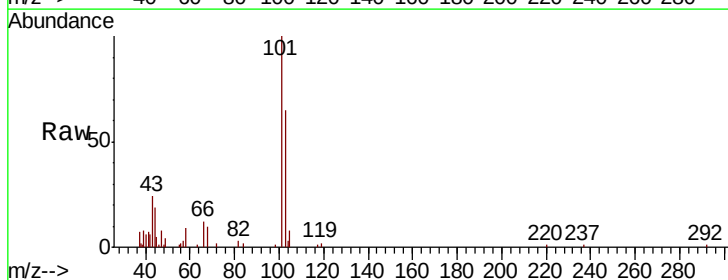
Acq: 5 May 2022 19:21

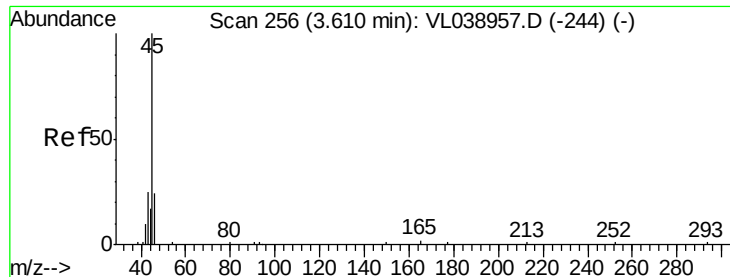
Tgt Ion: 101 Resp: 15243

Ion Ratio Lower Upper

101 100

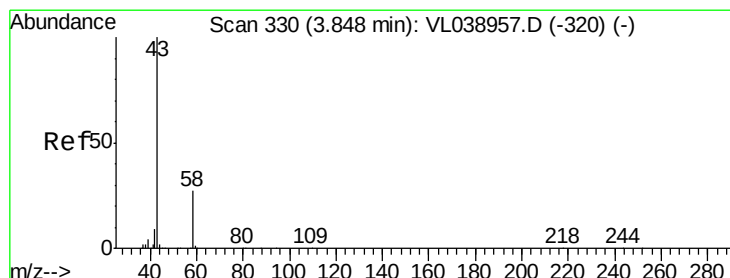
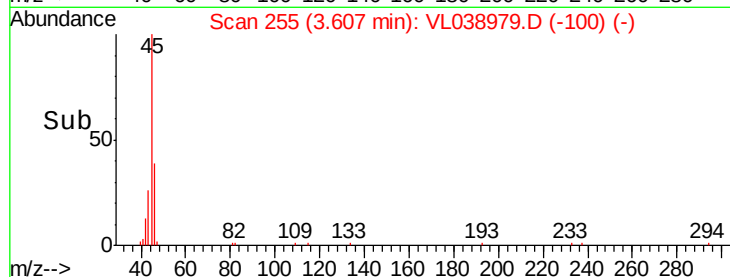
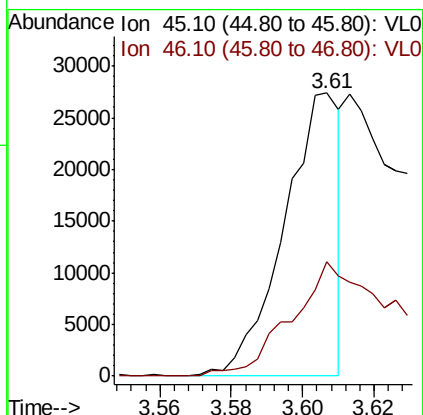
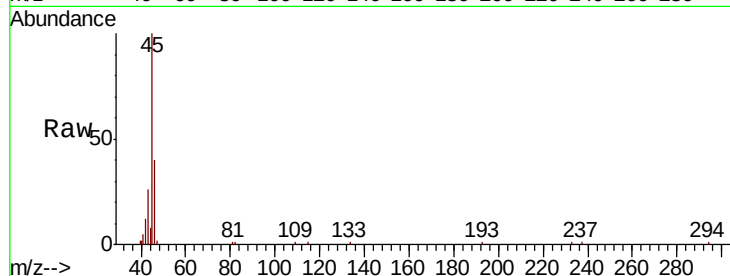
103 65.0 51.5 77.3





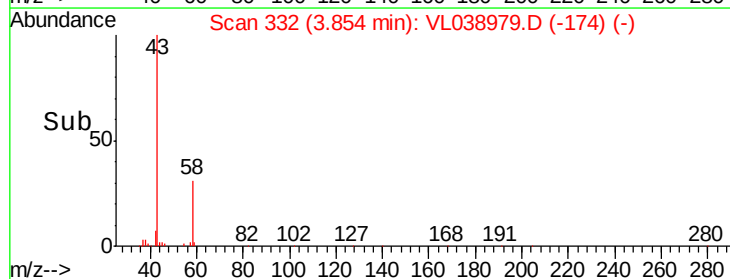
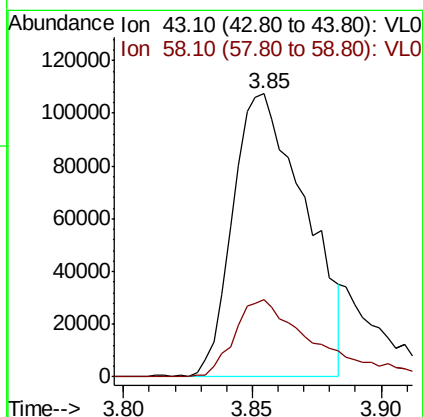
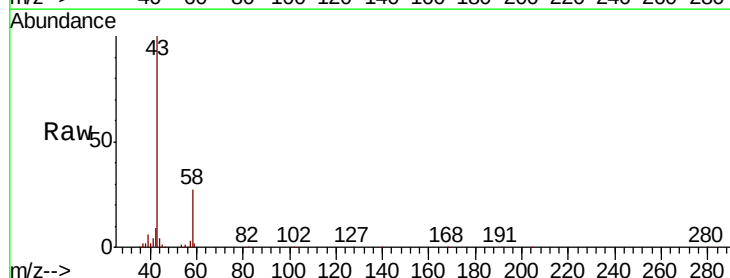
#13
 Ethanol
 Concen: 6.069 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 19:21

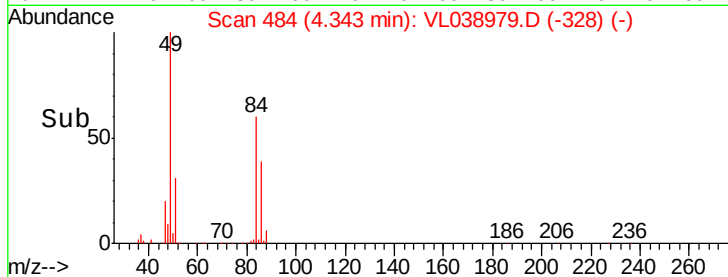
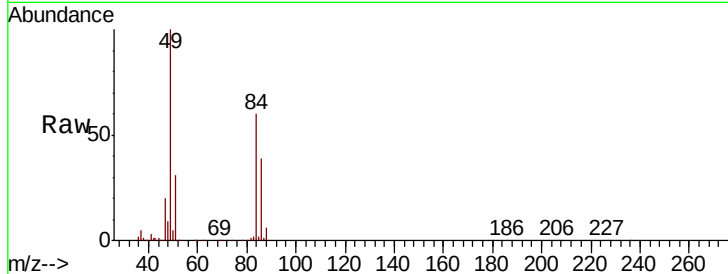
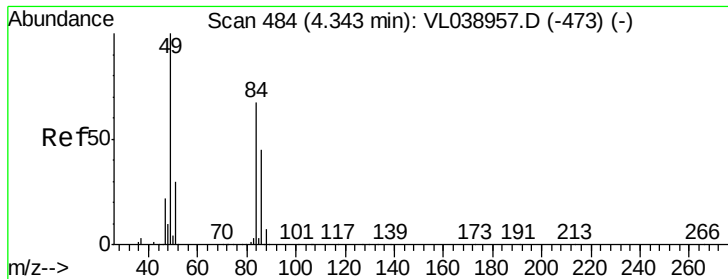
Tot Ion: 45 Resp: 29722
 Ion Ratio Lower Upper
 45 100
 46 103.6 18.0 72.2#



#15
 Acetone
 Concen: 1.926 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL038979.D
 Acq: 5 May 2022 19:21

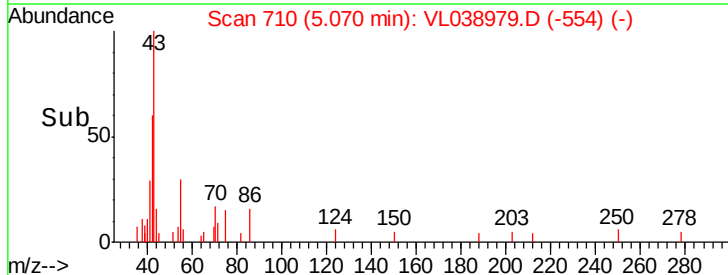
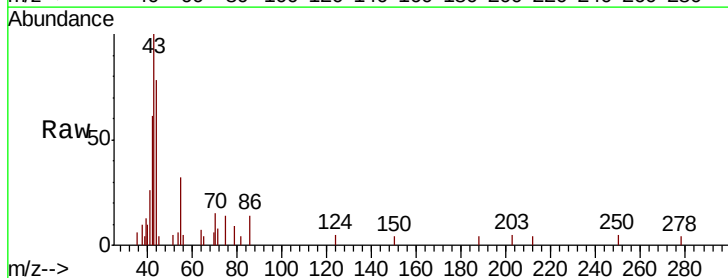
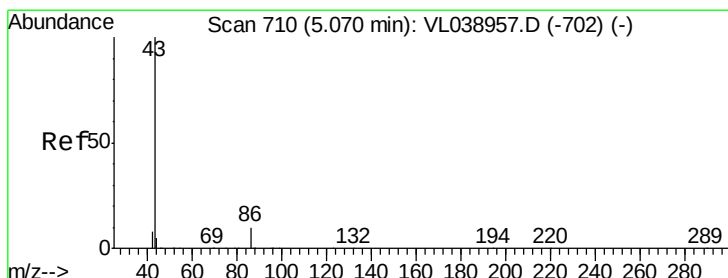
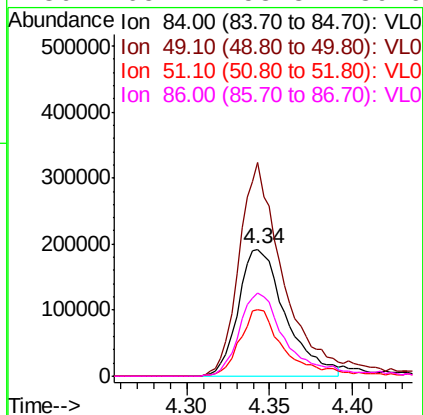
Tgt Ion: 43 Resp: 210215
 Ion Ratio Lower Upper
 43 100
 58 30.4 21.3 31.9





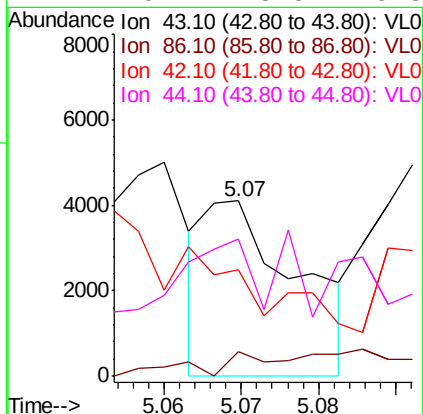
#20
Methvlene Chloride
Concen: 9.285 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 19:21

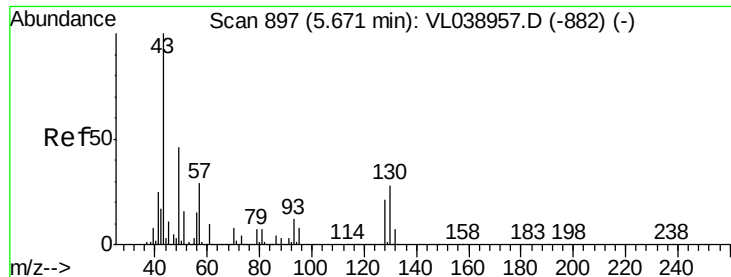
Tot Ion:	84	Resp:	382029
Ion	Ratio	Lower	Upper
84	100		
49	168.0	119.9	179.9
51	52.7	35.7	53.5
86	65.4	53.8	80.6



#23
Vinyl Acetate
Concen: 0.039 ppbv
RT: 5.07 min Scan# 710
Delta R.T. 0.00 min
Lab File: VL038979.D
Acq: 5 May 2022 19:21

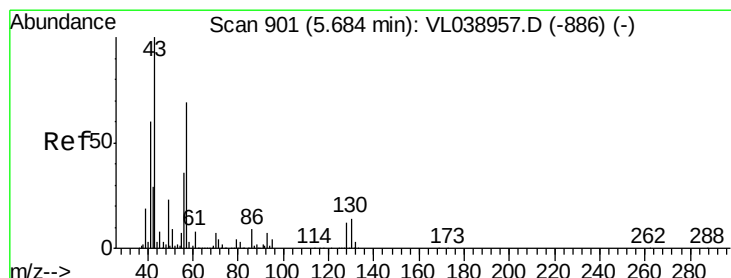
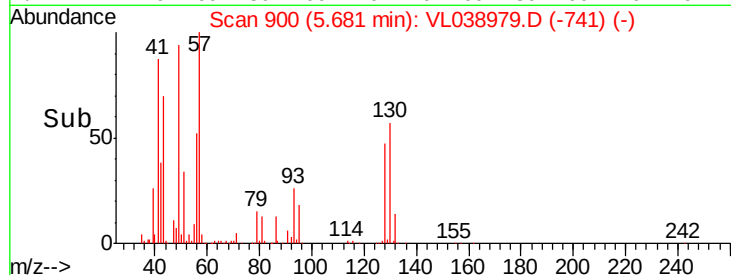
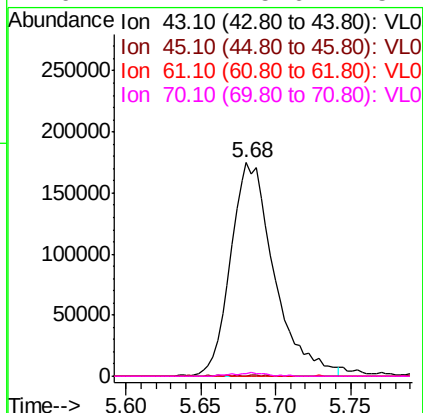
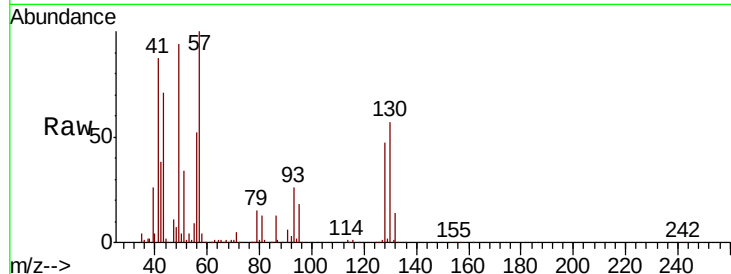
Tgt Ion:	43	Resp:	3405
Ion	Ratio	Lower	Upper
43	100		
86	12.2	6.6	9.8#
42	65.4	8.1	12.1#
44	29.2	3.5	5.3#





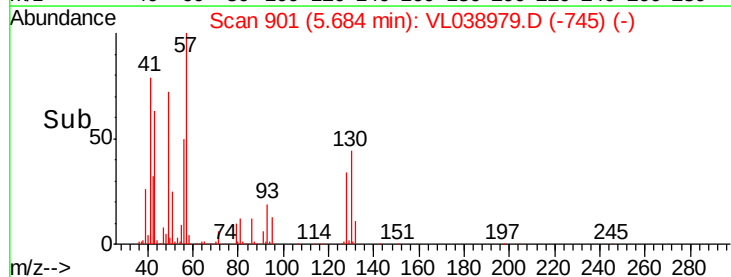
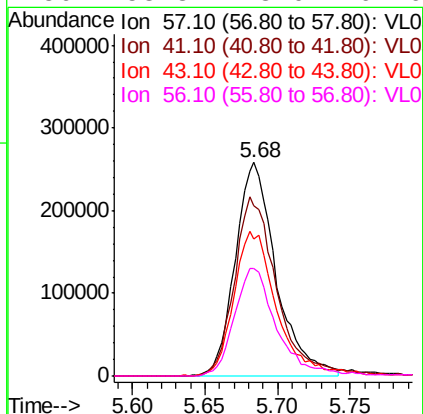
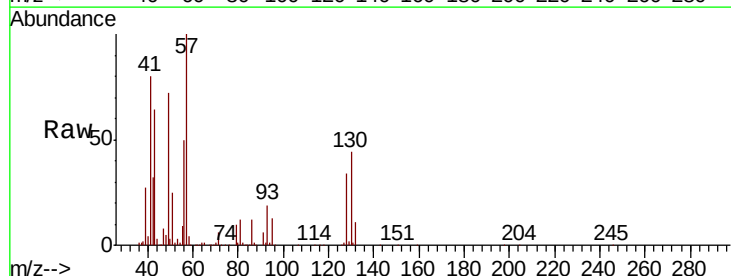
#25
Ethyl Acetate
Concen: 1.349 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 19:21

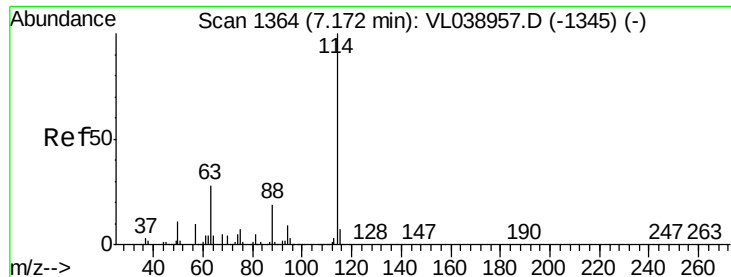
Tot Ion:	43	Resp:	352501
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.1	12.1#
61	0.2	7.8	11.6#
70	1.4	5.6	8.4#



#26
Hexane
Concen: 4.361 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL038979.D
Acq: 5 May 2022 19:21

Tgt Ion:	57	Resp:	506313
Ion	Ratio	Lower	Upper
57	100		
41	88.7	75.2	112.8
43	72.4	190.8	286.2#
56	53.3	43.0	64.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 19:21

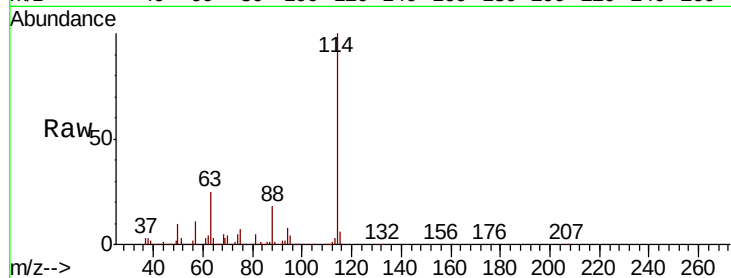
Tot Ion:114 Resp: 2939162

Ion Ratio Lower Upper

114 100

63 26.5 22.6 33.8

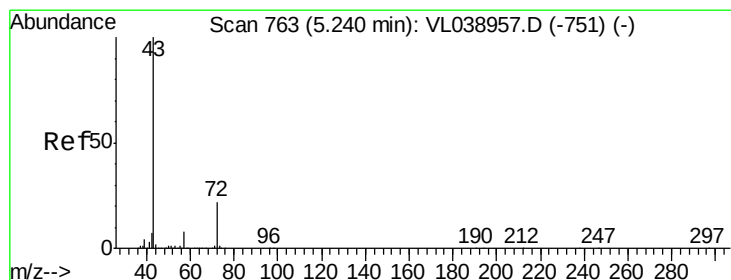
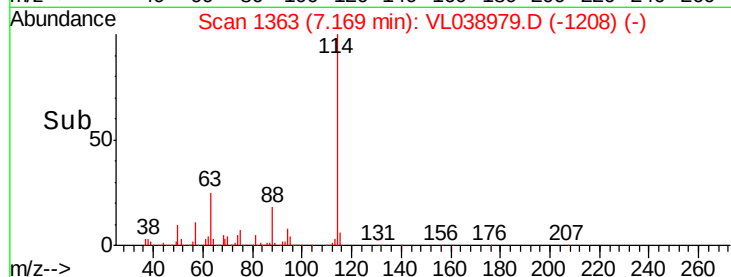
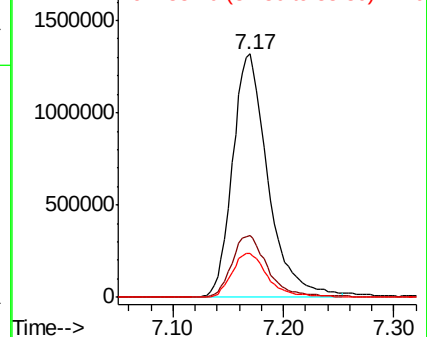
88 18.8 15.4 23.0



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: 0.064 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038979.D

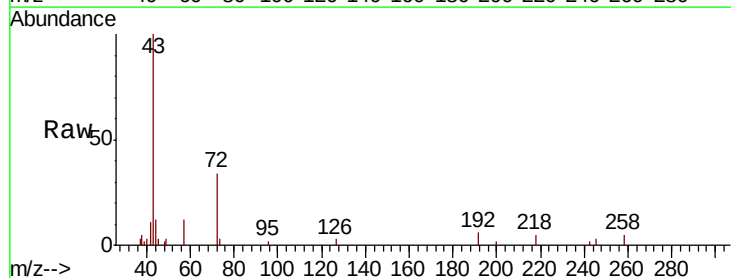
Acq: 5 May 2022 19:21

Tgt Ion: 43 Resp: 9623

Ion Ratio Lower Upper

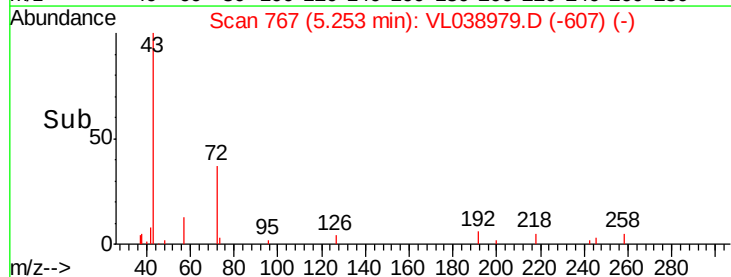
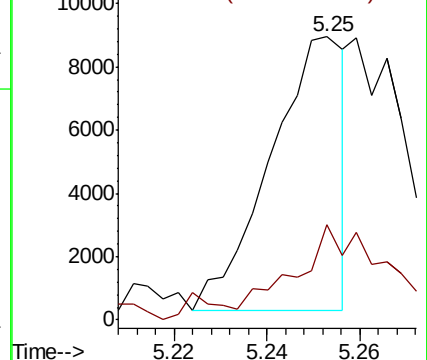
43 100

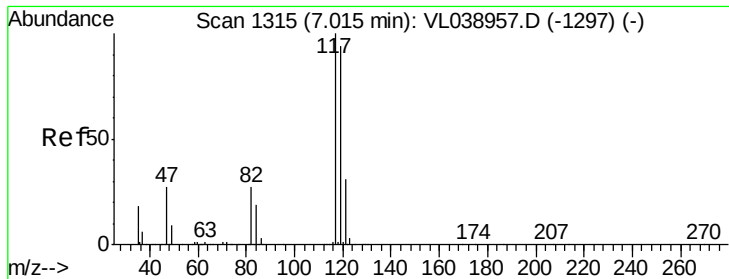
72 61.2 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 19:21

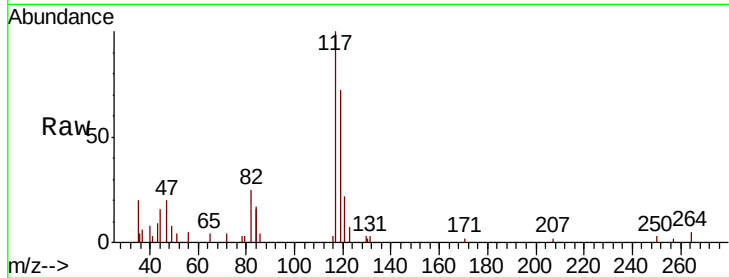
Tot Ion:117 Resp: 7562

Ion Ratio Lower Upper

117 100

119 52.5 75.2 112.8#

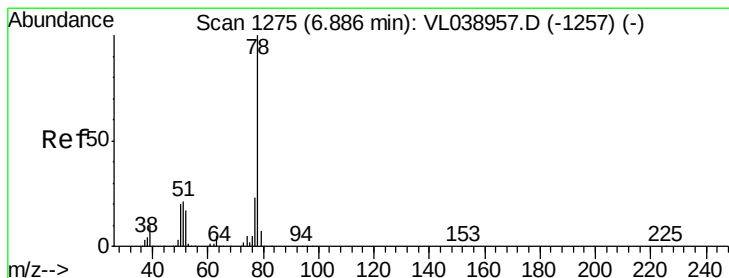
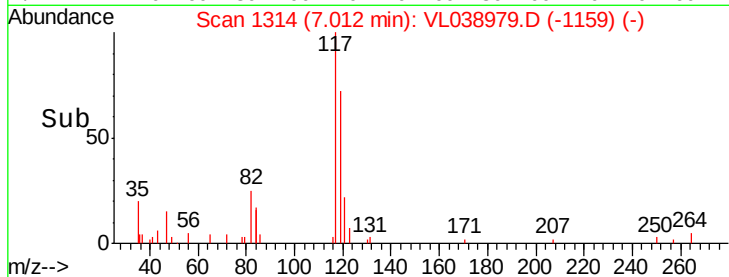
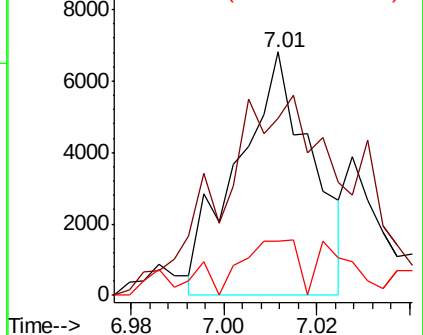
121 17.4 24.6 37.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.071 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL038979.D

Acq: 5 May 2022 19:21

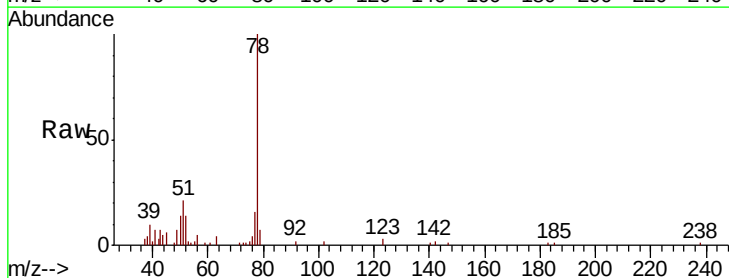
Tgt Ion: 78 Resp: 17889

Ion Ratio Lower Upper

78 100

77 15.8 18.6 28.0#

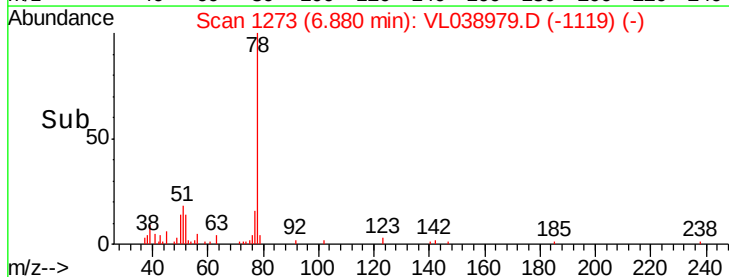
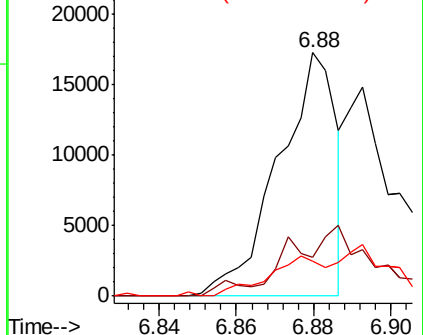
50 12.8 15.6 23.4#

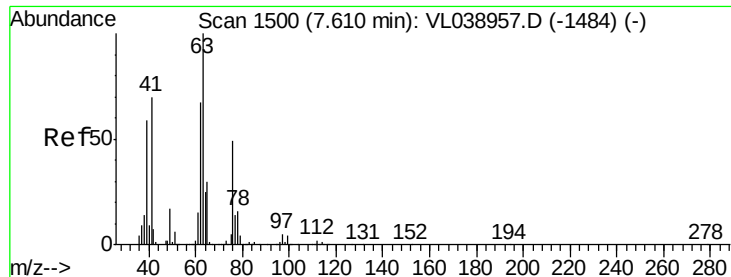


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 7.575 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 19:21

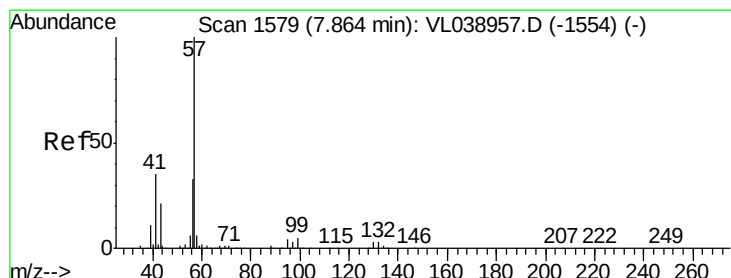
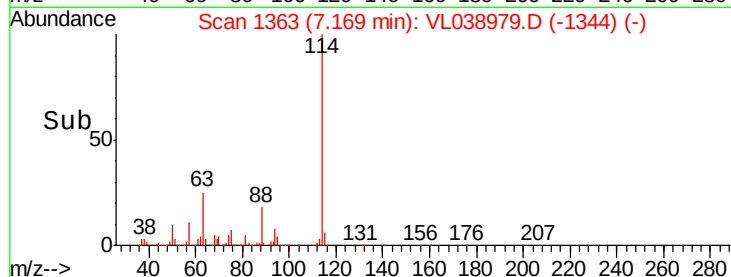
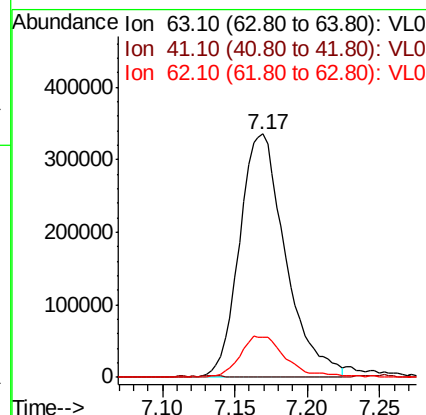
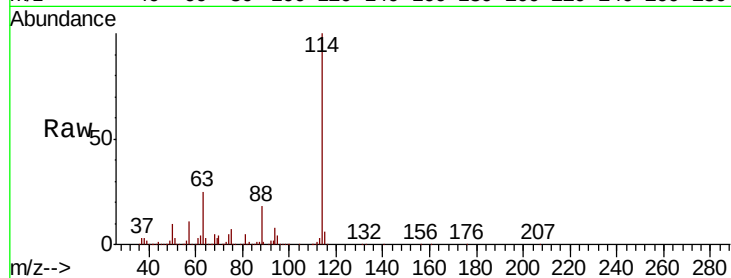
Tot Ion: 63 Resp: 741332

Ion Ratio Lower Upper

63 100

41 0.0 55.9 83.9#

62 16.3 53.8 80.6#



#44

2,2,4-Trimethylpentane

Concen: 0.048 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VL038979.D

Acq: 5 May 2022 19:21

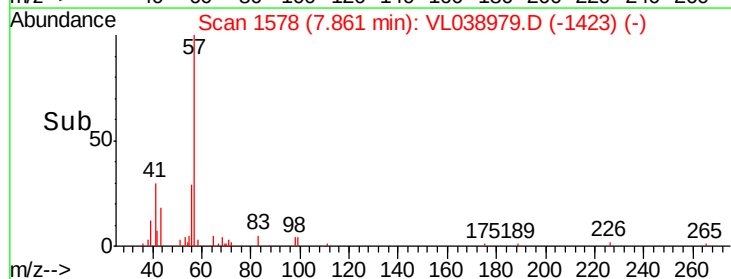
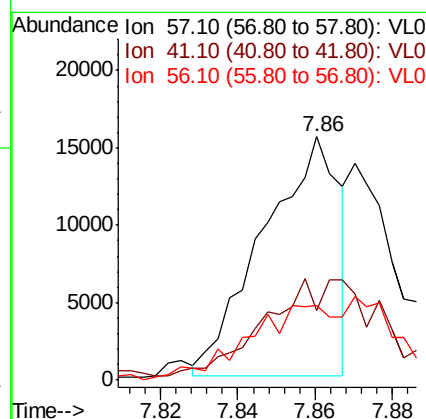
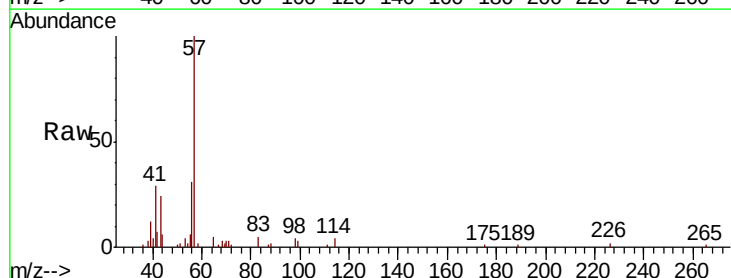
Tgt Ion: 57 Resp: 21187

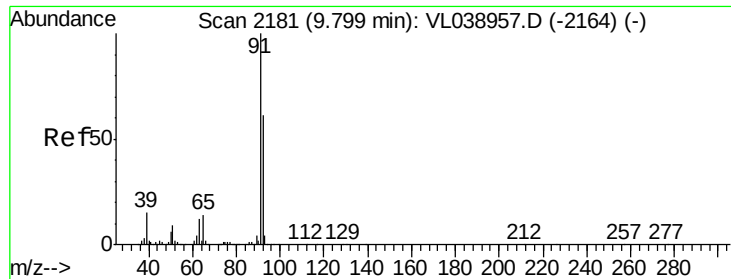
Ion Ratio Lower Upper

57 100

41 72.9 26.3 39.5#

56 0.0 24.6 37.0#





#53

Toluene

Concen: 0.146 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

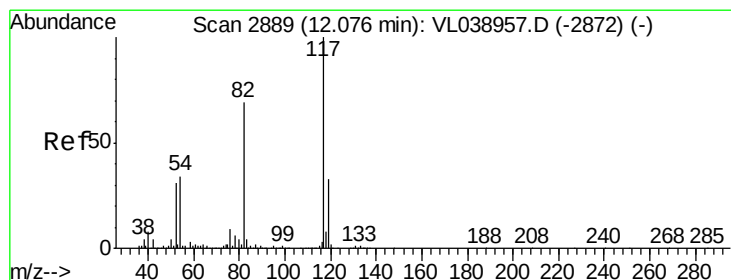
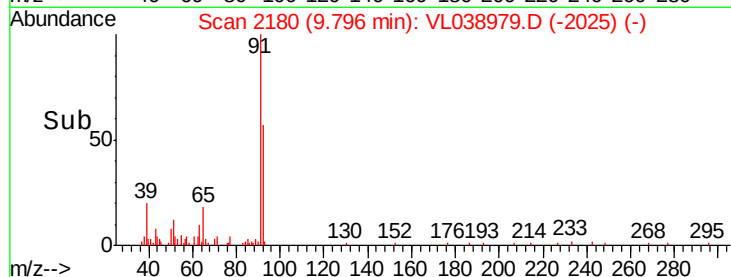
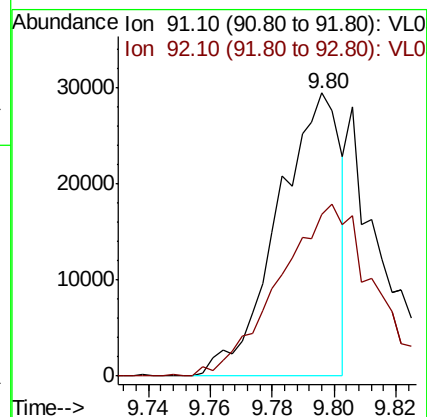
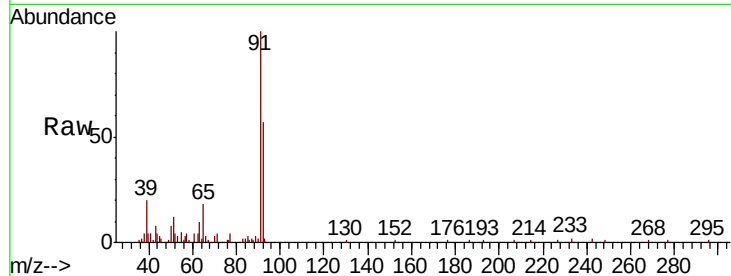
Acq: 5 May 2022 19:21

Tot Ion: 91 Resp: 41240

Ion Ratio Lower Upper

91 100

92 97.1 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL038979.D

Acq: 5 May 2022 19:21

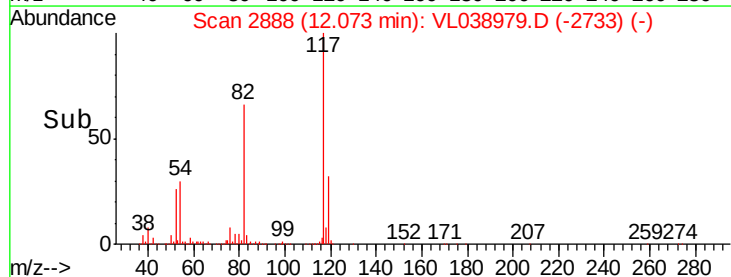
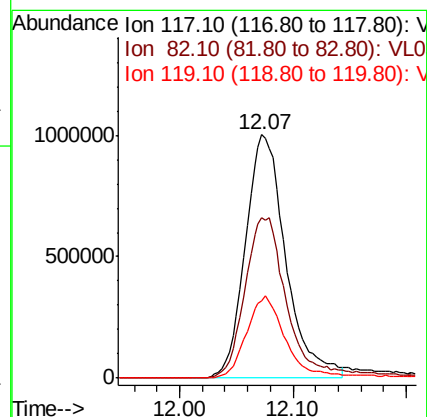
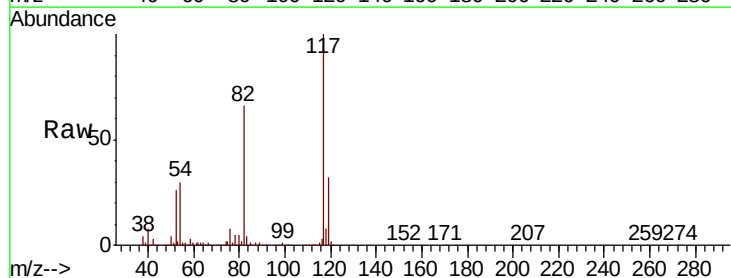
Tgt Ion: 117 Resp: 2489665

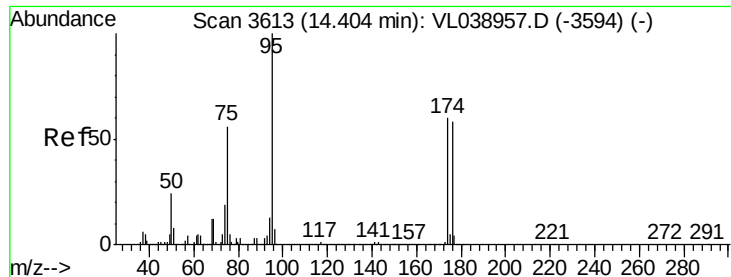
Ion Ratio Lower Upper

117 100

82 73.0 57.0 85.6

119 34.5 27.2 40.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.172 ppbv

RT: 14.40 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 5 May 2022 19:21

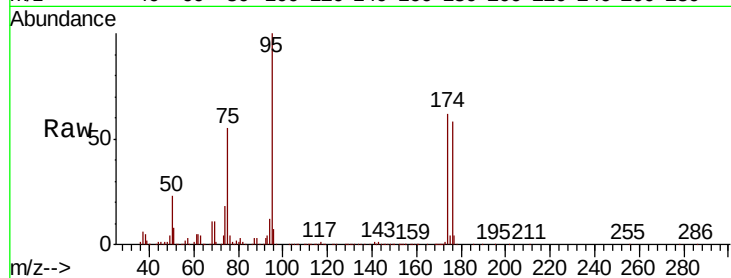
Tot Ion: 95 Resp: 1808502

Ion Ratio Lower Upper

95 100

174 70.7 50.8 76.2

175 5.0 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

