

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039054.D
 Acq On : 14 May 2022 2:34
 Operator : SY/AP
 Sample : N2828-02DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: May 14 03:48:13 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	876139	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2119081	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1727380	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1329640	9.72	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

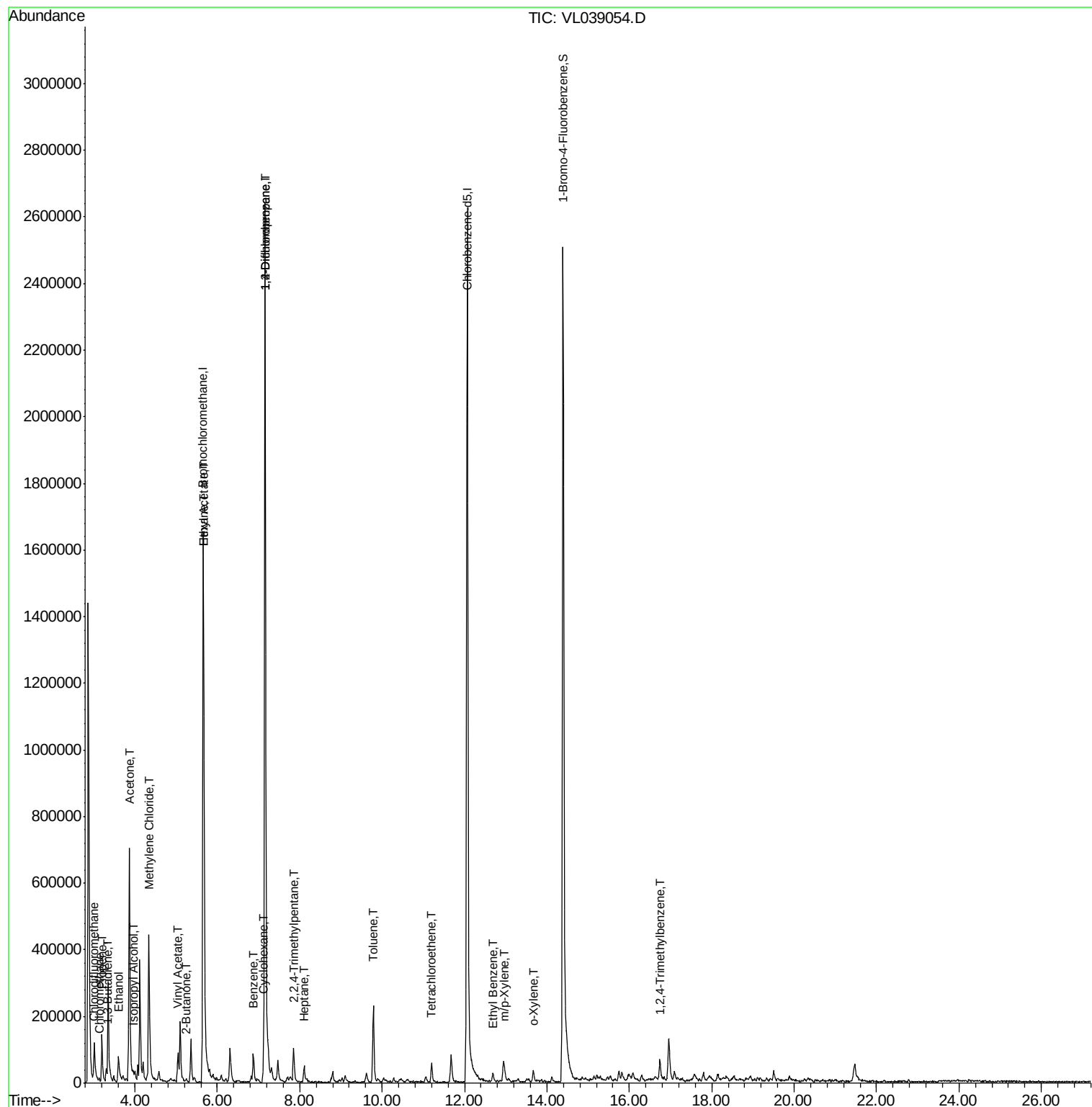
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	14843	0.137 ppbv	# 88
4) Chloromethane	3.13	50	8212	0.151 ppbv	# 69
9) Propene	3.20	41	41763	0.880 ppbv	91
10) Heptane	8.11	43	21225	0.182 ppbv	97
13) Ethanol	3.60	45	103624	30.841 ppbv	97
15) Acetone	3.86	43	383332	4.638 ppbv	# 71
16) 1,3-Butadiene	3.32	39	3329	0.070 ppbv	# 1
19) Isopropyl Alcohol	3.96	45	8915	0.227 ppbv	# 57
20) Methylene Chloride	4.34	84	175049	5.620 ppbv	97
23) Vinyl Acetate	5.05	43	34334	0.525 ppbv	# 1
25) Ethyl Acetate	5.67	43	157731	0.797 ppbv	# 78
26) Hexane	5.67	57	226920	2.582 ppbv	# 39
30) Cyclohexane	7.12	84	6277	0.085 ppbv	# 1
34) 2-Butanone	5.25	43	5353	0.050 ppbv	# 47
36) Benzene	6.87	78	38215	0.211 ppbv	# 90
39) 1,2-Dichloropropane	7.16	63	567240	8.039 ppbv	# 26
44) 2,2,4-Trimethylpentane	7.85	57	86672	0.272 ppbv	# 83
52) Tetrachloroethene	11.20	164	10286	0.159 ppbv	# 62
53) Toluene	9.78	91	85585	0.421 ppbv	# 21
58) Ethyl Benzene	12.68	91	9403	0.038 ppbv	91
59) m/p-Xylene	12.97	91	7354	0.035 ppbv	# 33
60) o-Xylene	13.67	91	13648	0.068 ppbv	# 32
74) 1,2,4-Trimethylbenzene	16.73	105	38911	0.173 ppbv	# 65

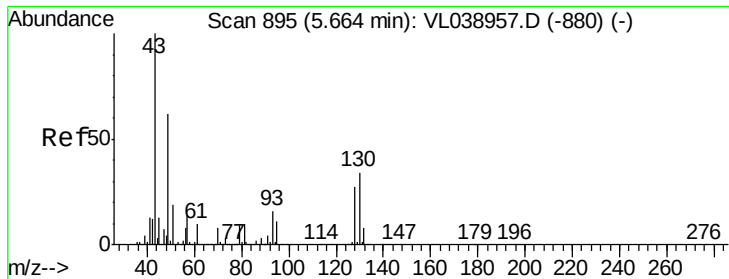
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 14 May 2022 2:34

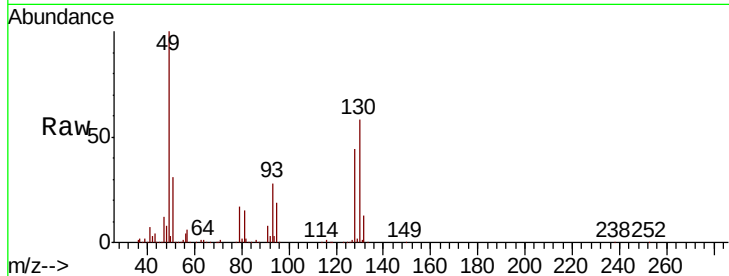
Tot Ion: 49 Resp: 876139

Ion Ratio Lower Upper

49 100

128 45.7 23.3 69.8

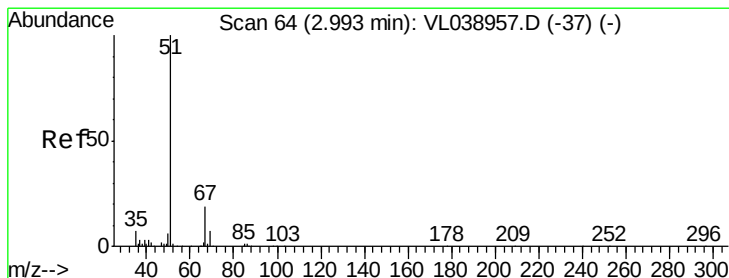
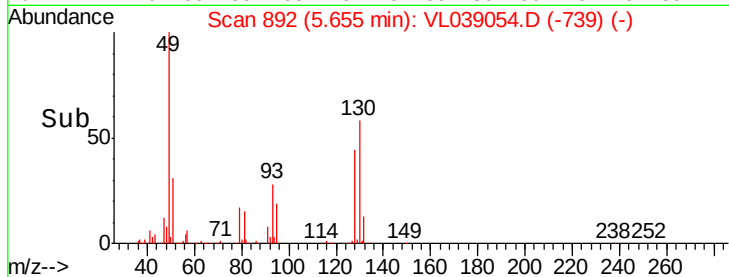
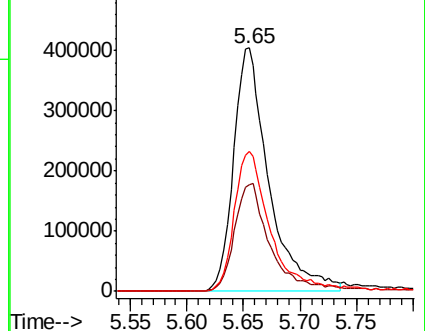
130 59.9 29.8 89.3



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



#3

Chlorodifluoromethane

Concen: 0.137 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL039054.D

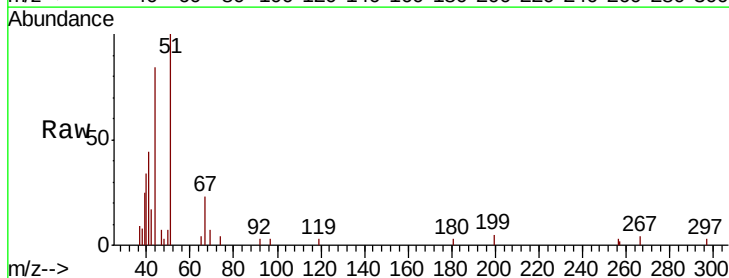
Acq: 14 May 2022 2:34

Tgt Ion: 51 Resp: 14843

Ion Ratio Lower Upper

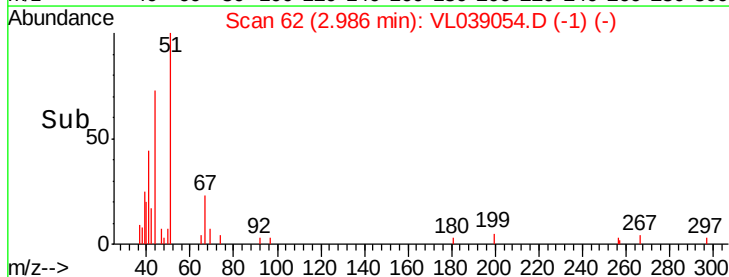
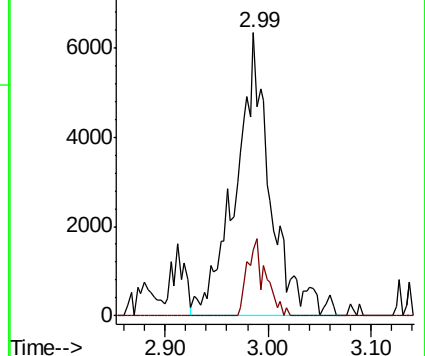
51 100

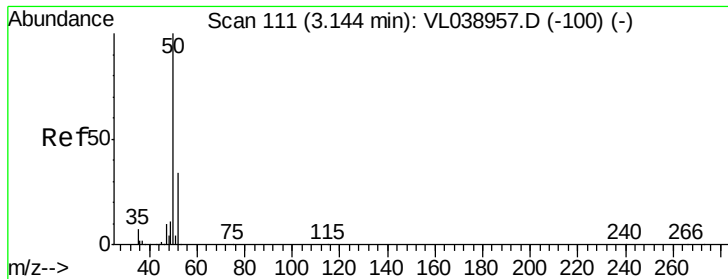
67 14.3 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.151 ppbv

RT: 3.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

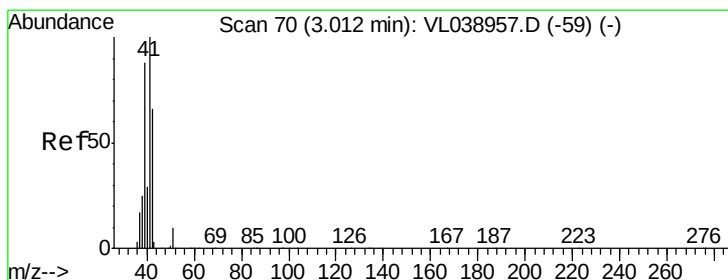
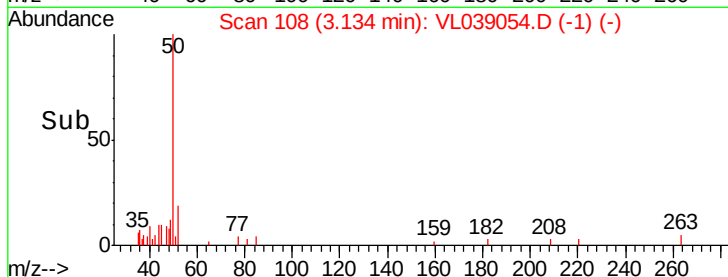
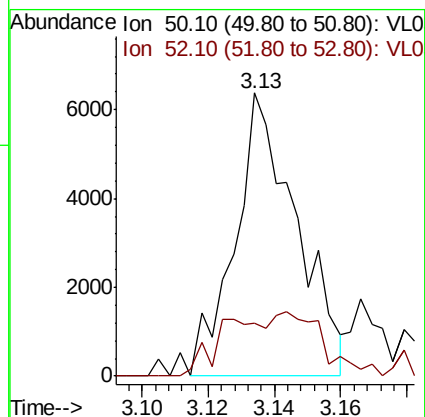
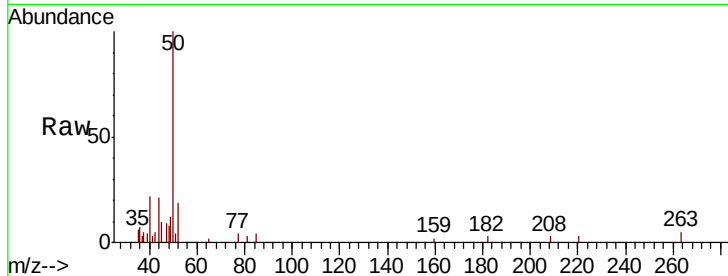
Acq: 14 May 2022 2:34

Tot Ion: 50 Resp: 8212

Ion Ratio Lower Upper

50 100

52 16.2 27.3 40.9#



#9

Propene

Concen: 0.880 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.19 min

Lab File: VL039054.D

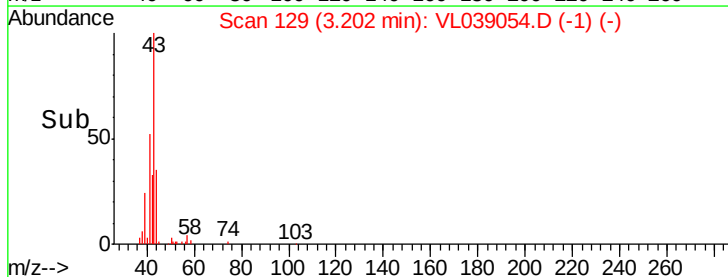
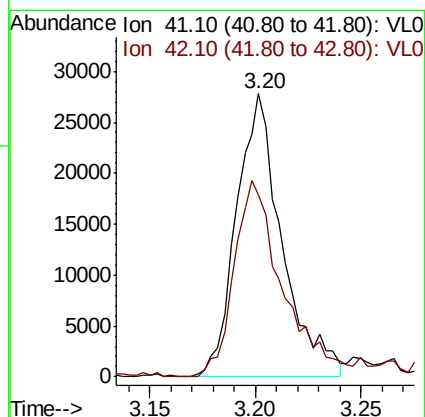
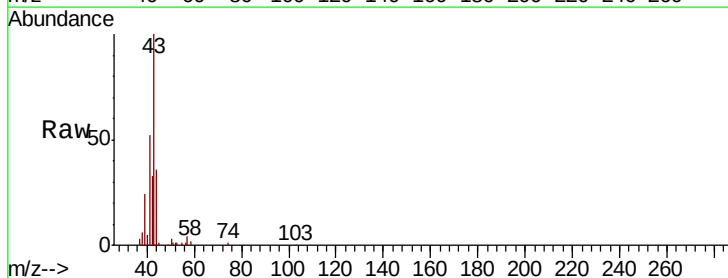
Acq: 14 May 2022 2:34

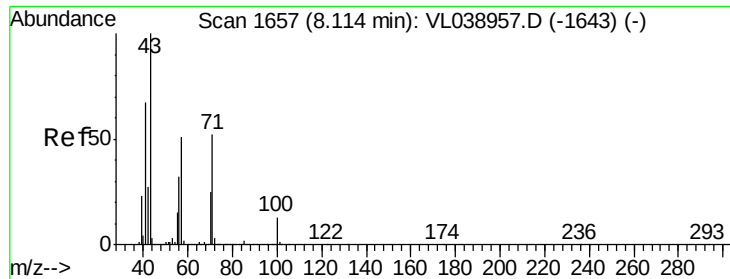
Tgt Ion: 41 Resp: 41763

Ion Ratio Lower Upper

41 100

42 80.7 58.3 87.5





#10

Heptane

Concen: 0.182 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

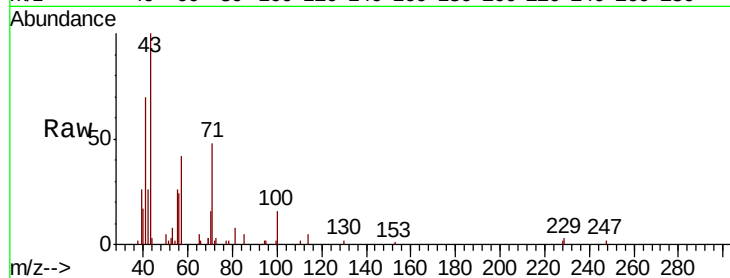
Acq: 14 May 2022 2:34

Tot Ion: 43 Resp: 21225

Ion Ratio Lower Upper

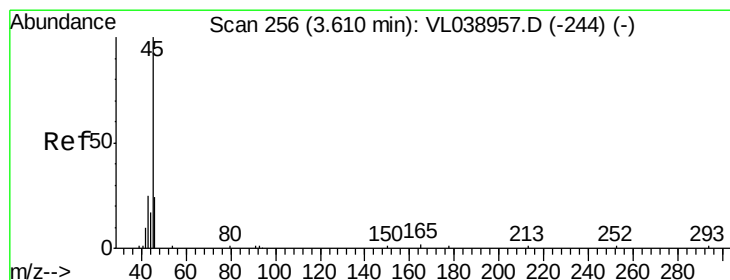
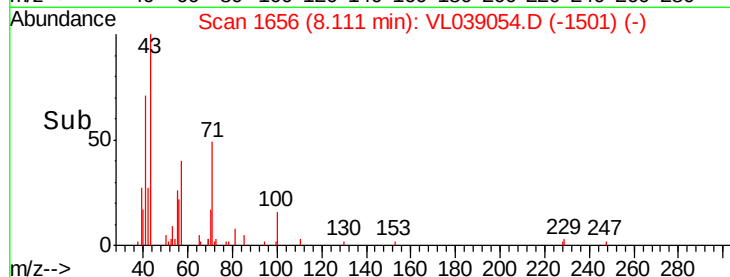
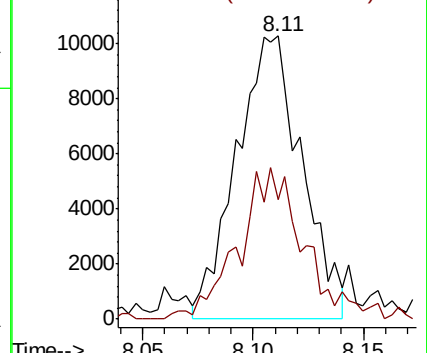
43 100

57 52.7 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 30.841 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL039054.D

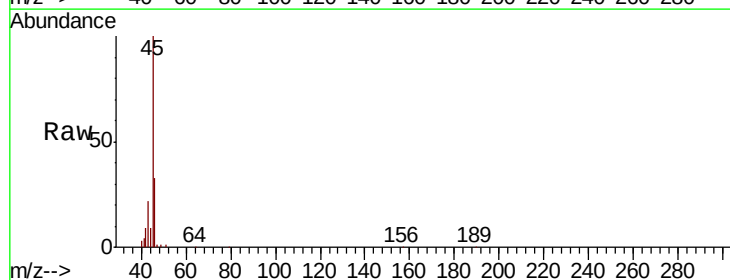
Acq: 14 May 2022 2:34

Tgt Ion: 45 Resp: 103624

Ion Ratio Lower Upper

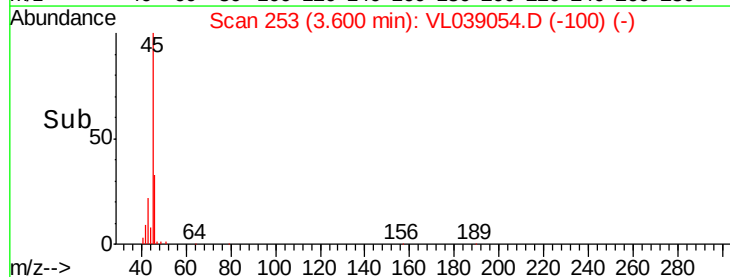
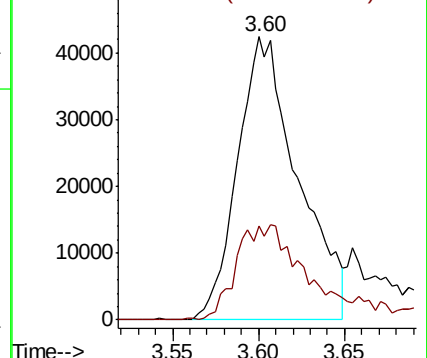
45 100

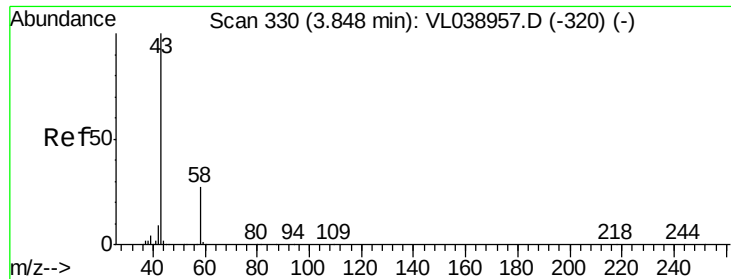
46 43.3 18.0 72.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.638 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

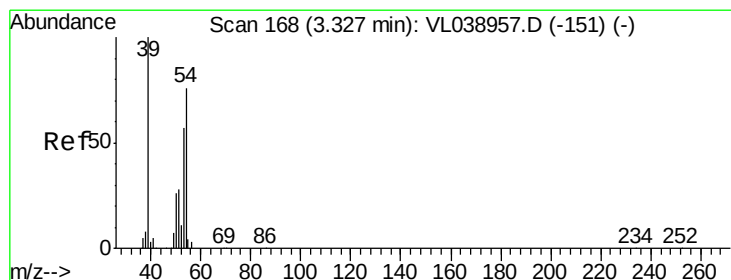
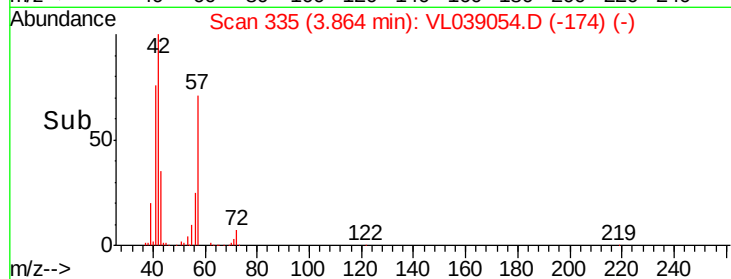
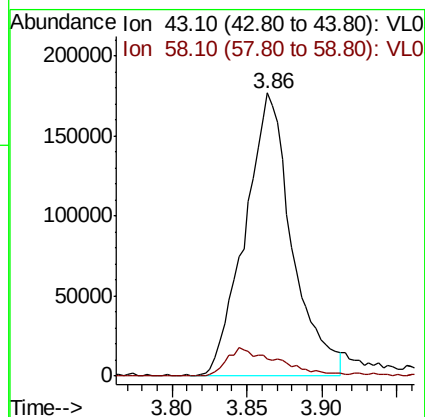
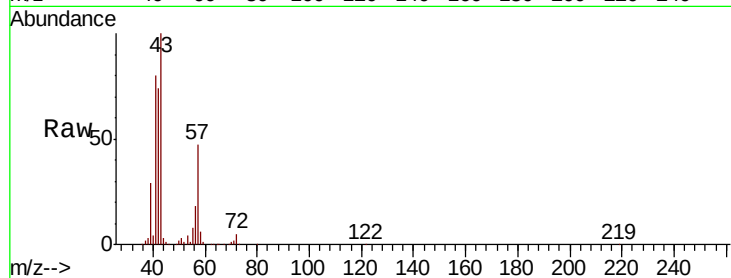
Acq: 14 May 2022 2:34

Tot Ion: 43 Resp: 383332

Ion Ratio Lower Upper

43 100

58 11.6 21.3 31.9#



#16

1,3-Butadiene

Concen: 0.070 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL039054.D

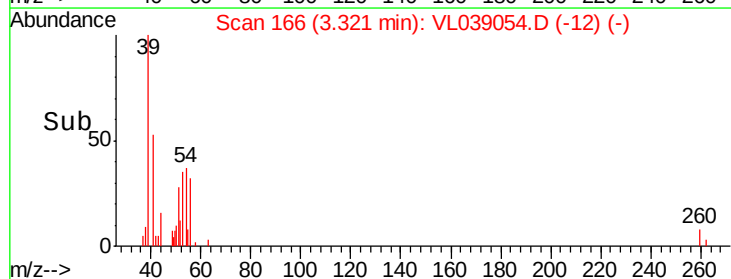
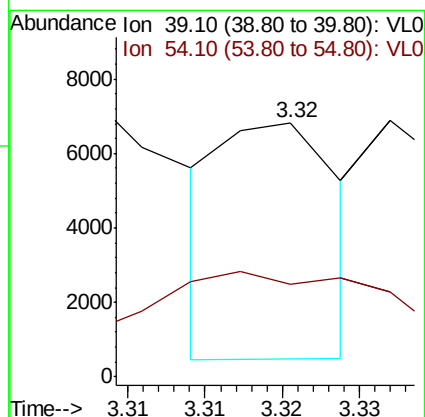
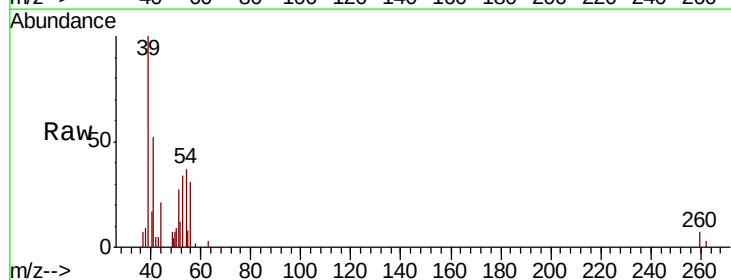
Acq: 14 May 2022 2:34

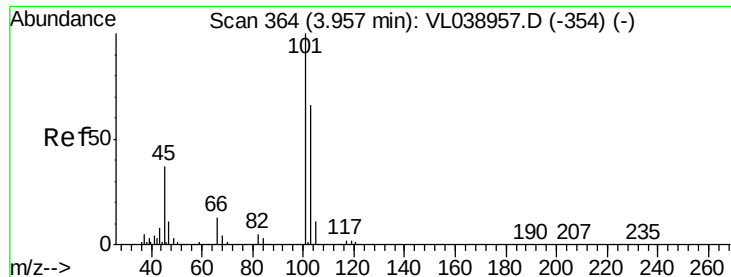
Tgt Ion: 39 Resp: 3329

Ion Ratio Lower Upper

39 100

54 180.8 65.2 97.8#





#19

Isopropyl Alcohol

Concen: 0.227 ppbv

RT: 3.96 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

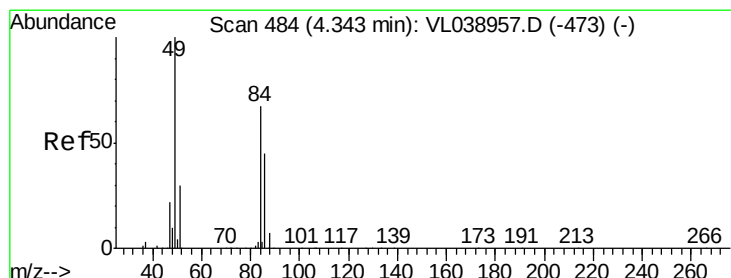
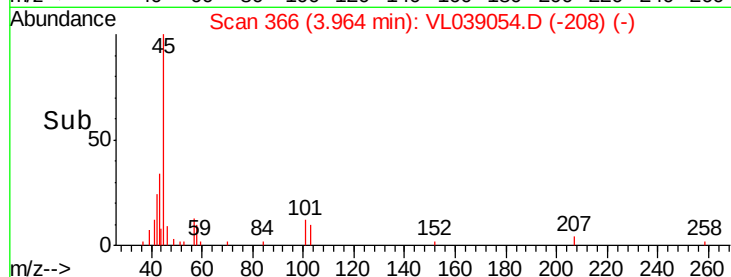
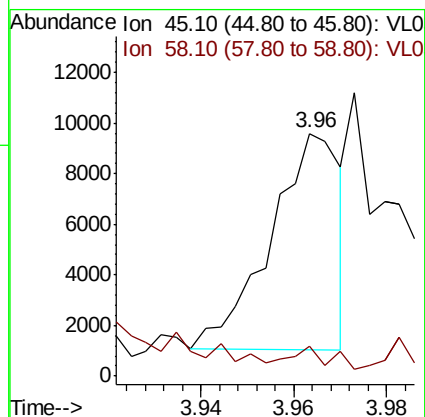
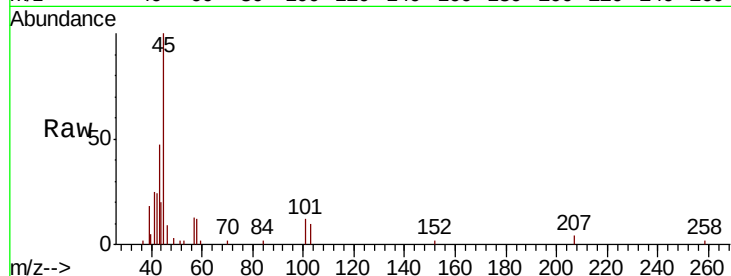
Acq: 14 May 2022 2:34

Tot Ion: 45 Resp: 8915

Ion Ratio Lower Upper

45 100

58 17.5 1.4 2.2#



#20

Methylene Chloride

Concen: 5.620 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL039054.D

Acq: 14 May 2022 2:34

Tgt Ion: 84 Resp: 175049

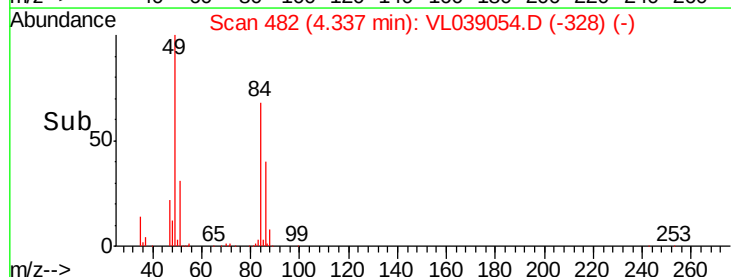
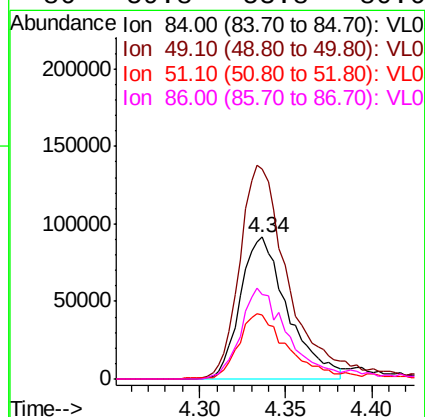
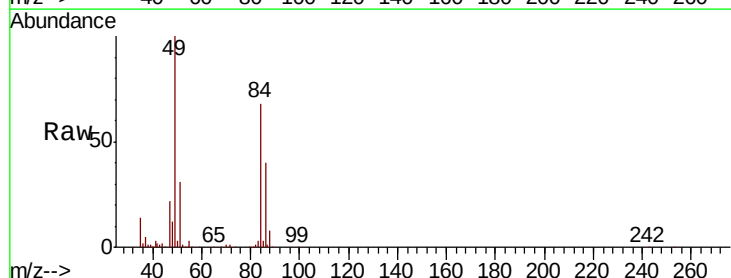
Ion Ratio Lower Upper

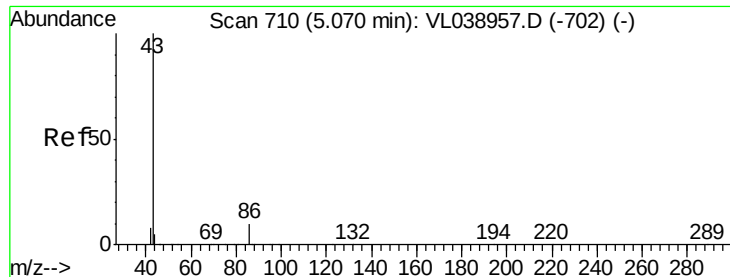
84 100

49 147.8 119.9 179.9

51 44.8 35.7 53.5

86 59.8 53.8 80.6





#23

Vinyl Acetate

Concen: 0.525 ppbv

RT: 5.05 Instrument: MSVOA_1

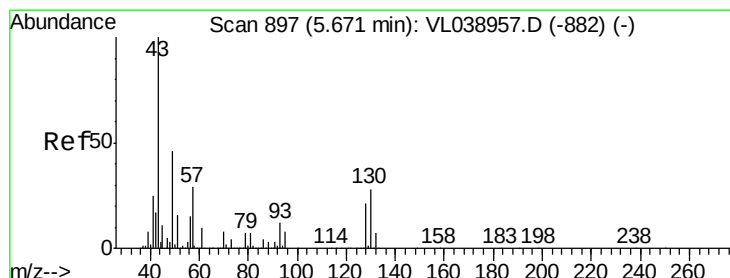
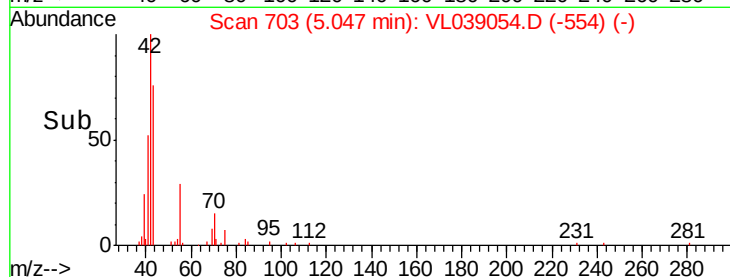
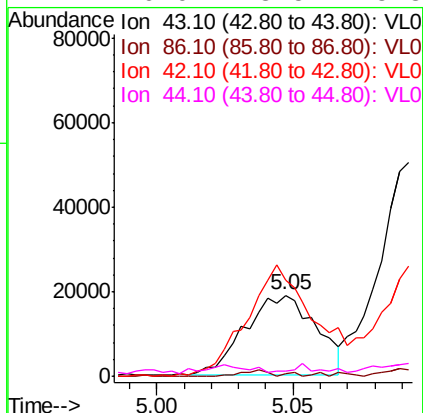
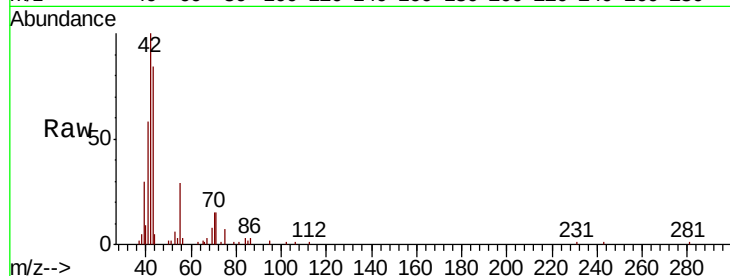
Delta R.T.

Lab File: ClientSampleId:

Acq: 14 May 2022 2:34

Tot Ion: 43 Resp: 34334

Ion	Ratio	Lower	Upper
43	100		
86	3.3	6.6	9.8#
42	118.2	8.1	12.1#
44	0.0	3.5	5.3#



#25

Ethyl Acetate

Concen: 0.797 ppbv

RT: 5.67 min Scan# 898

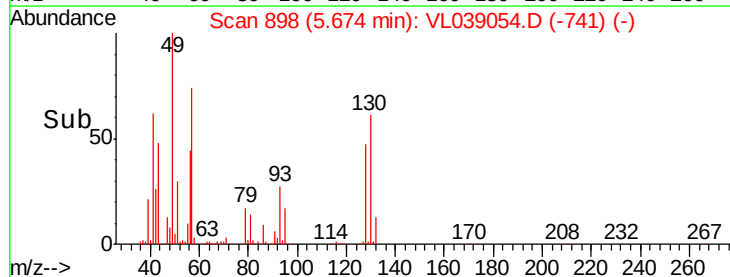
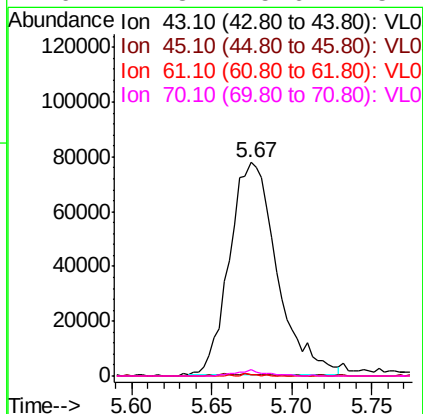
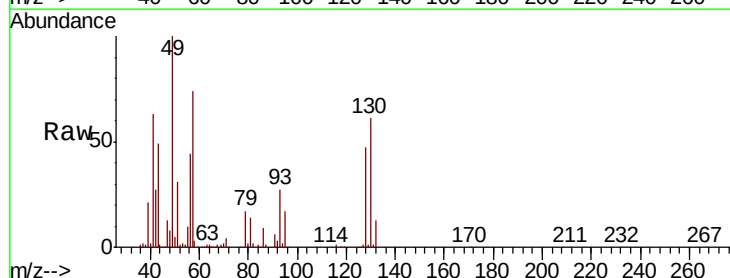
Delta R.T. 0.00 min

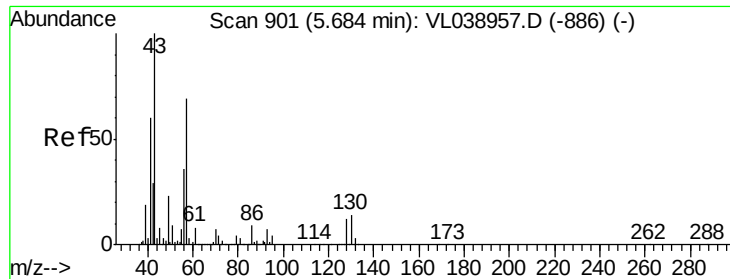
Lab File: VL039054.D

Acq: 14 May 2022 2:34

Tgt Ion: 43 Resp: 157731

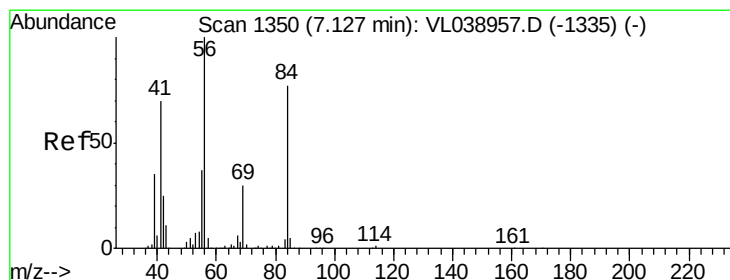
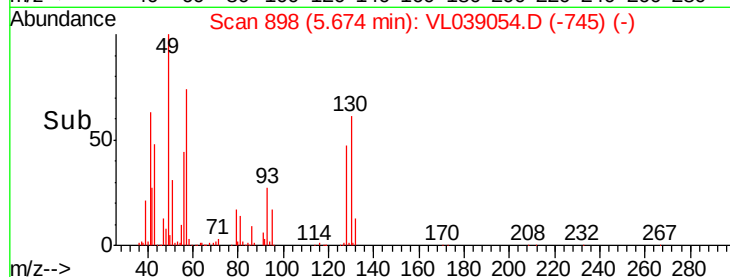
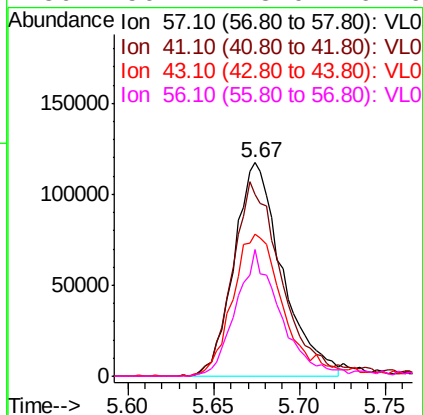
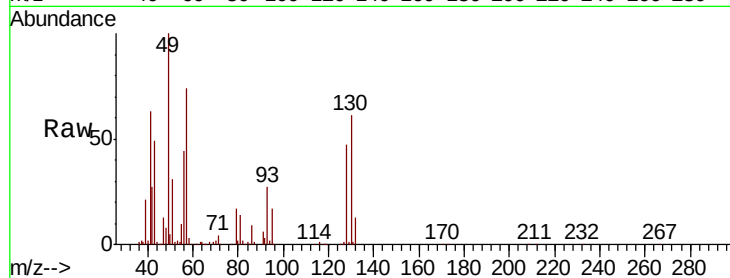
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.1	12.1#
61	0.4	7.8	11.6#
70	1.8	5.6	8.4#





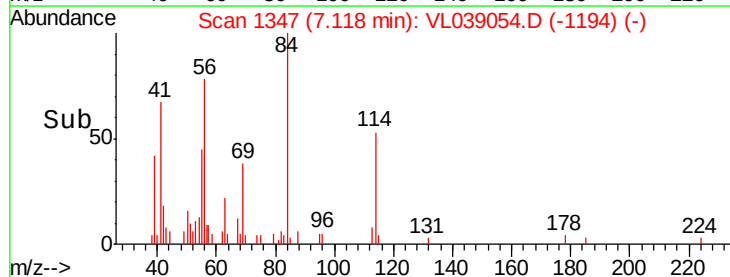
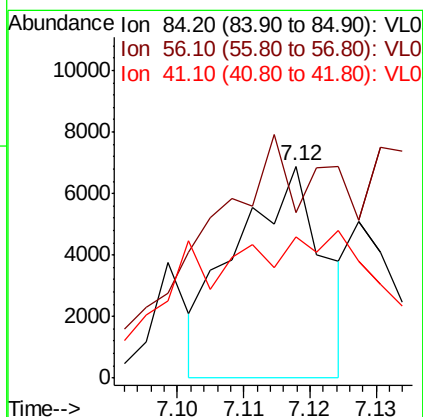
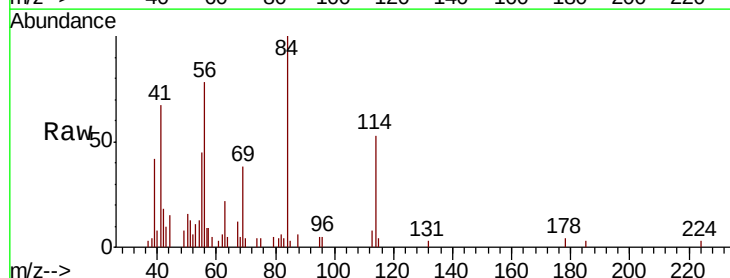
#26
Hexane
Concen: 2.582 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 2:34

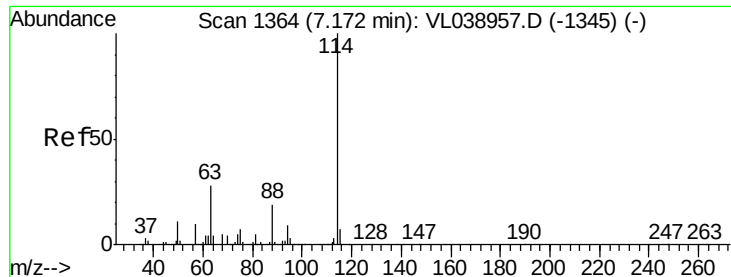
Tot Ion:	57	Resp:	226920
Ion	Ratio	Lower	Upper
57	100		
41	97.0	75.2	112.8
43	74.3	190.8	286.2#
56	56.1	43.0	64.6



#30
Cyclohexane
Concen: 0.085 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL039054.D
Acq: 14 May 2022 2:34

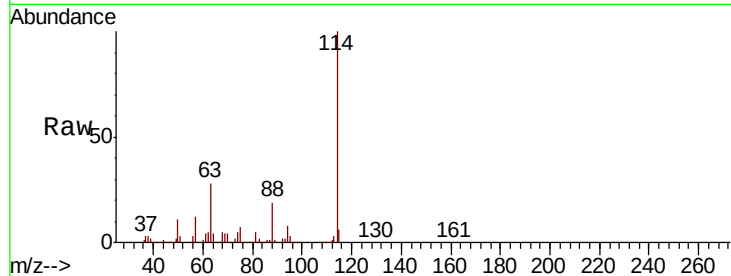
Tgt Ion:	84	Resp:	6277
Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.3	172.9#
41	0.0	72.0	108.0#



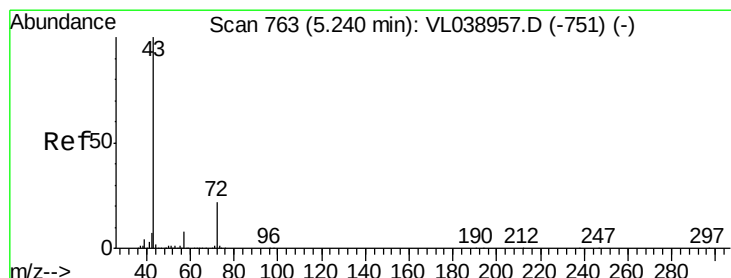
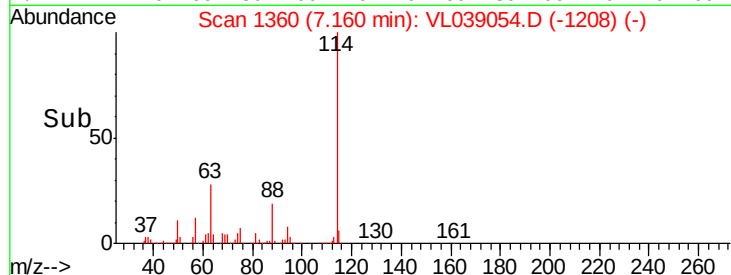
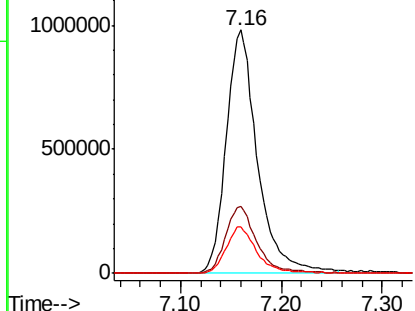


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 2:34

Tot Ion:114 Resp: 2119081
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.6 33.8
 88 19.1 15.4 23.0

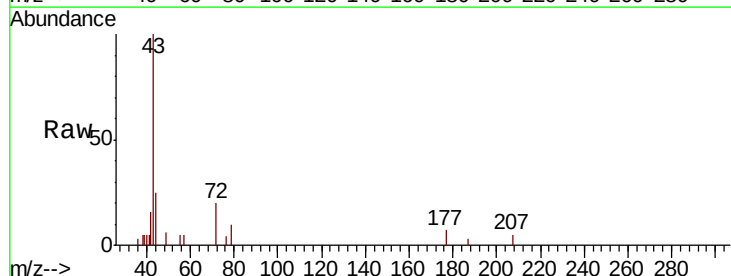


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

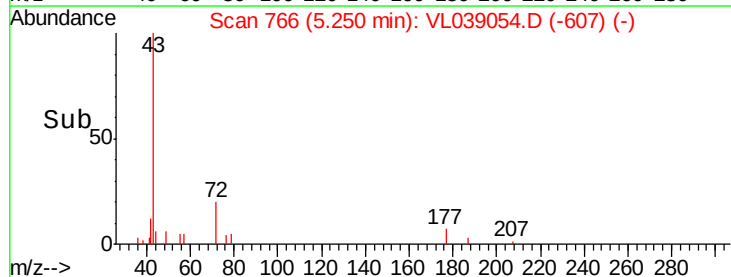
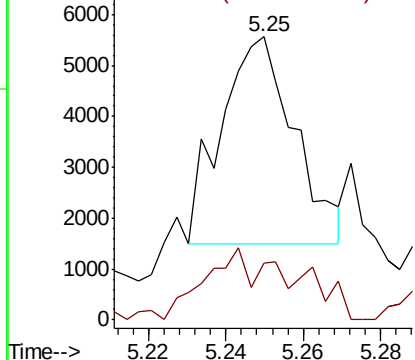


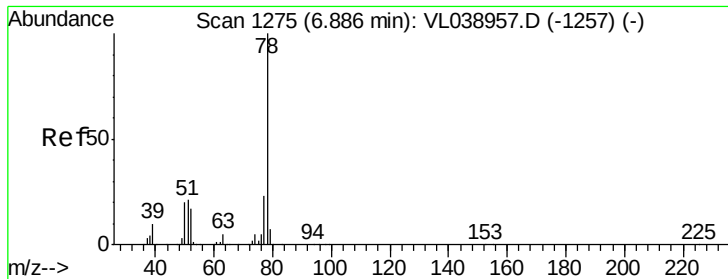
#34
 2-Butanone
 Concen: 0.050 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL039054.D
 Acq: 14 May 2022 2:34

Tgt Ion: 43 Resp: 5353
 Ion Ratio Lower Upper
 43 100
 72 47.5 17.8 26.6#



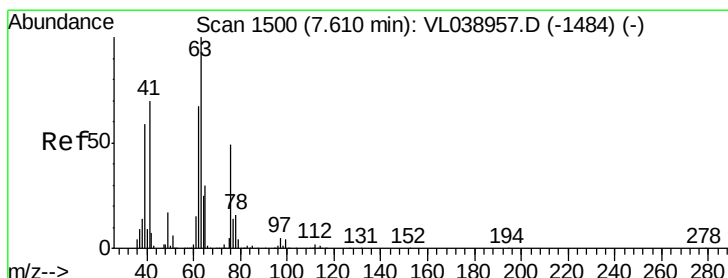
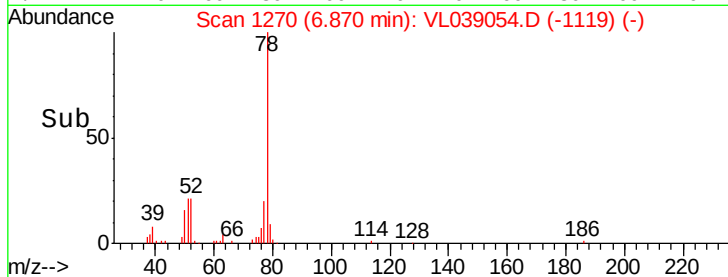
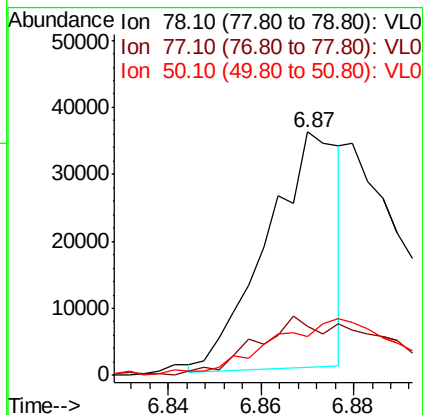
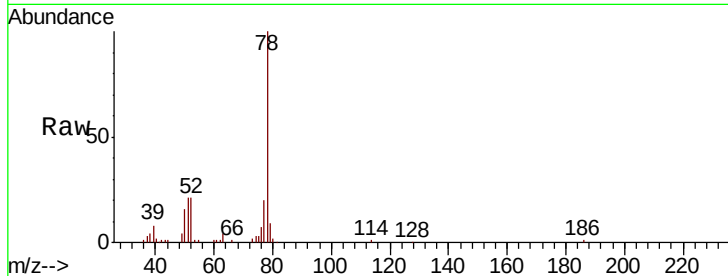
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





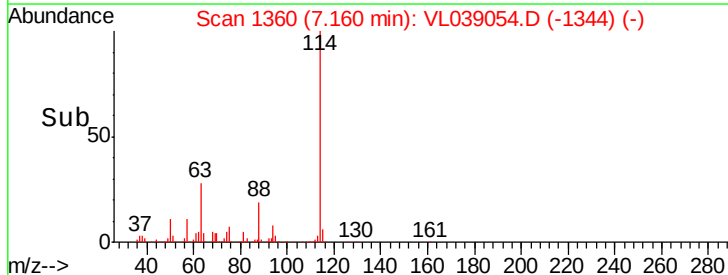
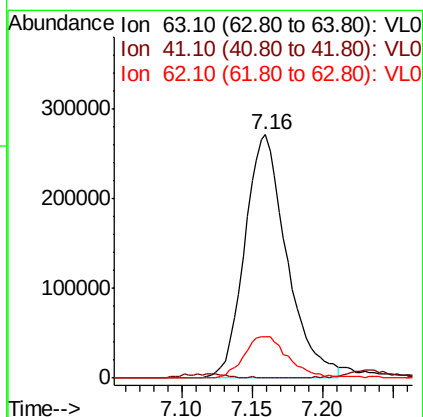
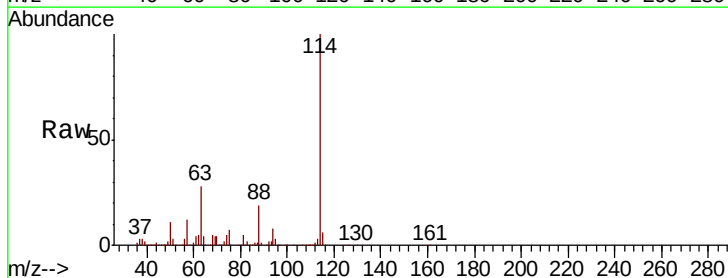
#36
Benzene
Concen: 0.211 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 2:34

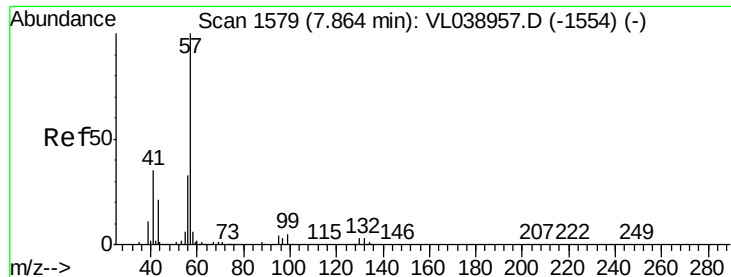
Tot Ion	Ratio	Lower	Upper
78	100		
77	18.8	18.6	28.0
50	14.5	15.6	23.4#



#39
1,2-Dichloropropane
Concen: 8.039 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.45 min
Lab File: VL039054.D
Acq: 14 May 2022 2:34

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	17.2	53.8	80.6#





#44

2,2,4-Trimethylpentane

Concen: 0.272 ppbv

RT: 7.85 Instrument: MSVOA_1

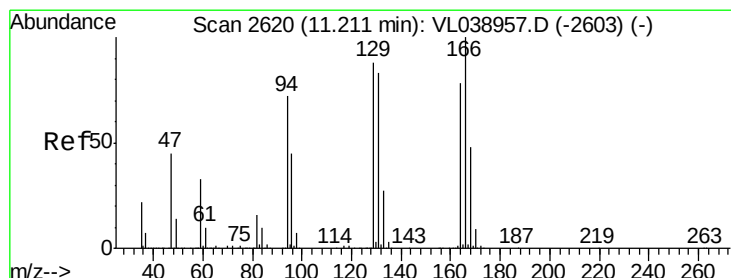
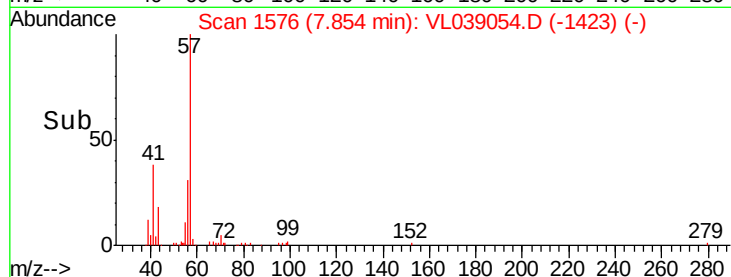
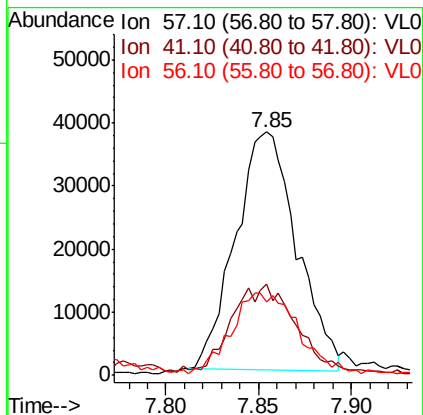
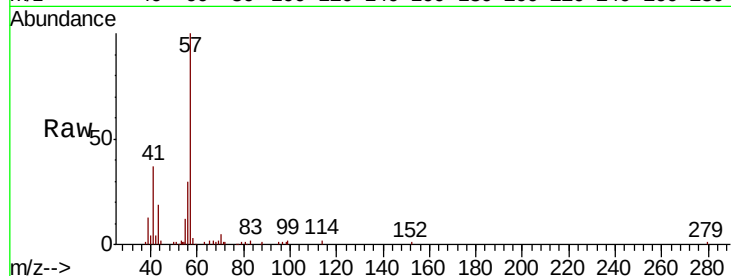
Delta R.T.

Lab File: ClientSampleId:

Acq: 14 May 2022 2:34

Tot Ion: 57 Resp: 86672

Ion	Ratio	Lower	Upper
57	100		
41	43.1	26.3	39.5#
56	39.3	24.6	37.0#



#52

Tetrachloroethene

Concen: 0.159 ppbv

RT: 11.20 min Scan# 2618

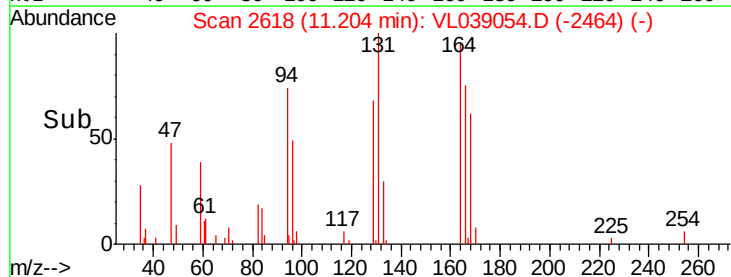
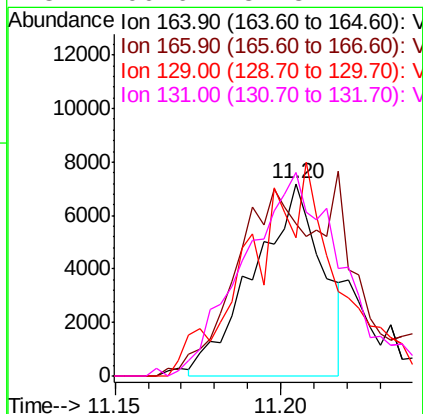
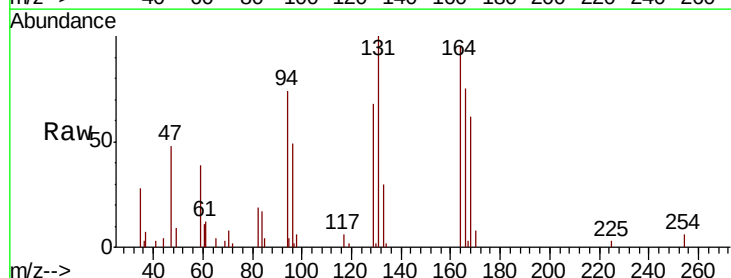
Delta R.T. -0.01 min

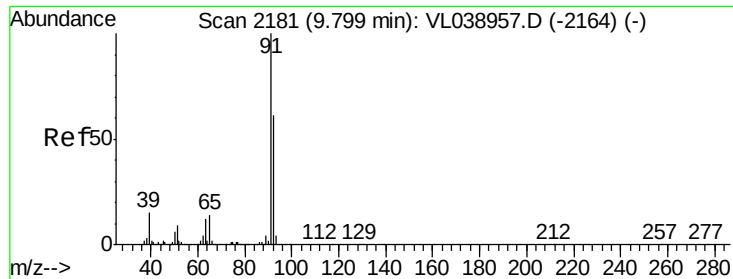
Lab File: VL039054.D

Acq: 14 May 2022 2:34

Tgt Ion: 164 Resp: 10286

Ion	Ratio	Lower	Upper
164	100		
166	69.9	102.5	153.7#
129	55.2	90.1	135.1#
131	100.6	84.8	127.2





#53

Toluene

Concen: 0.421 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

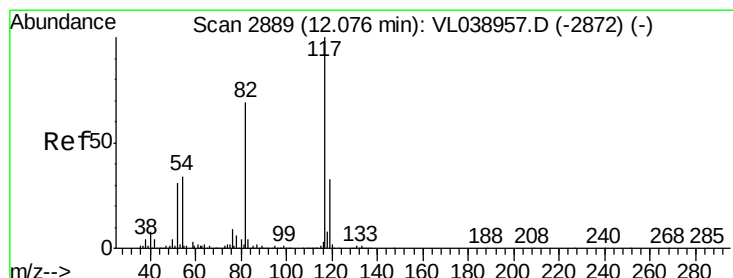
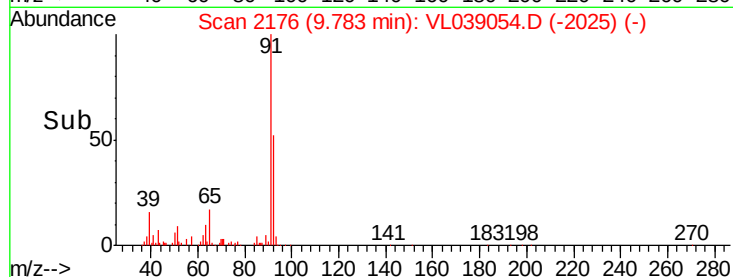
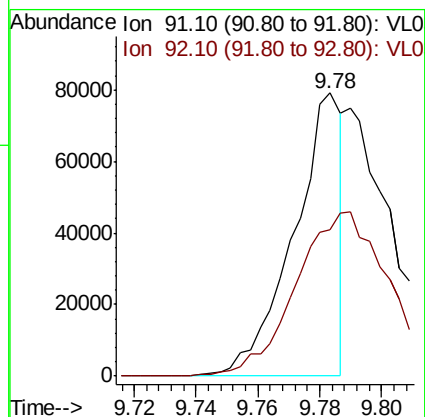
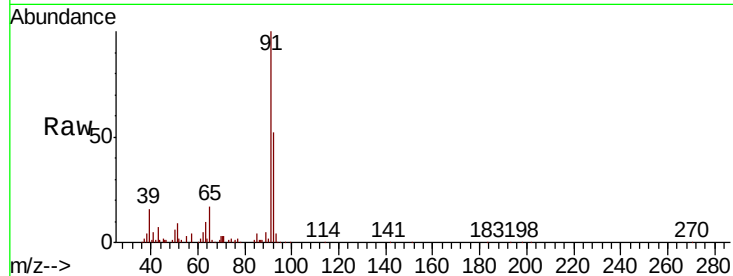
Acq: 14 May 2022 2:34

Tot Ion: 91 Resp: 85585

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL039054.D

Acq: 14 May 2022 2:34

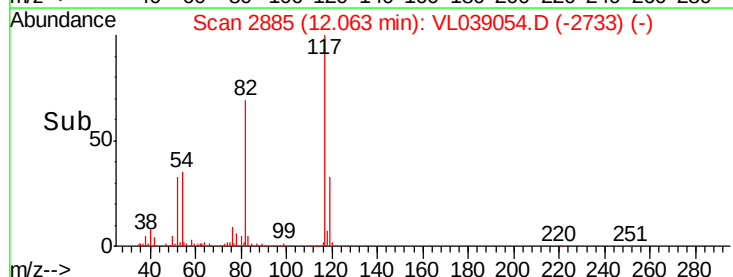
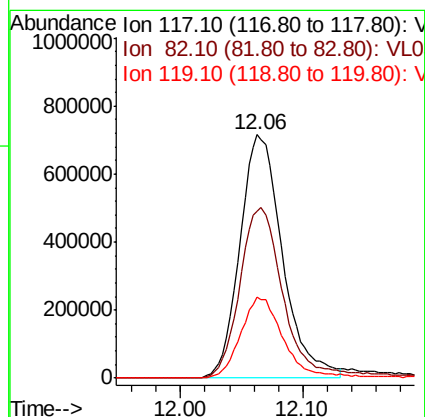
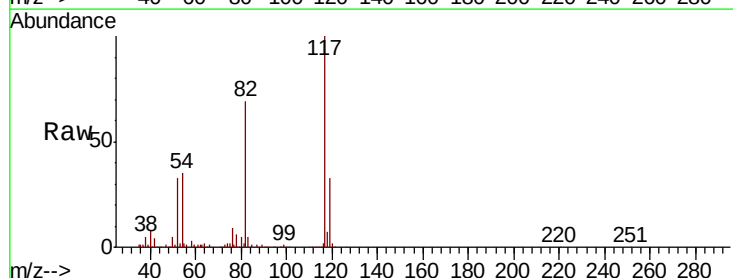
Tgt Ion: 117 Resp: 1727380

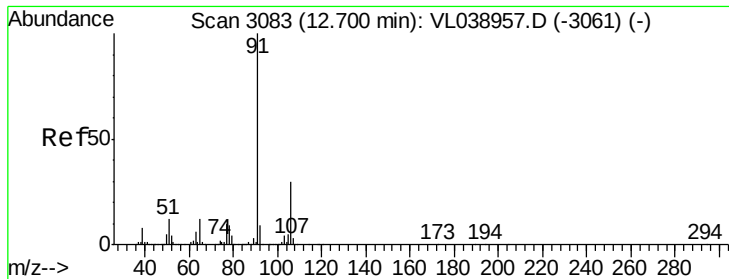
Ion Ratio Lower Upper

117 100

82 74.7 57.0 85.6

119 34.9 27.2 40.8





#58

Ethyl Benzene

Concen: 0.038 ppbv

RT: 12.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

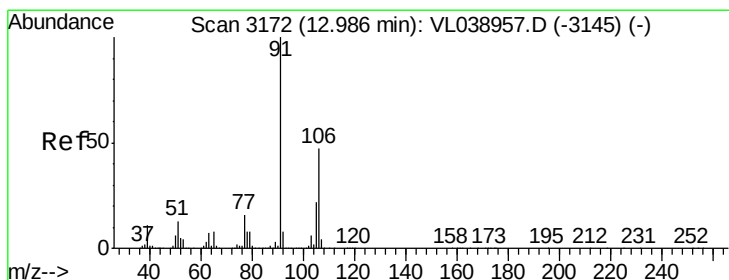
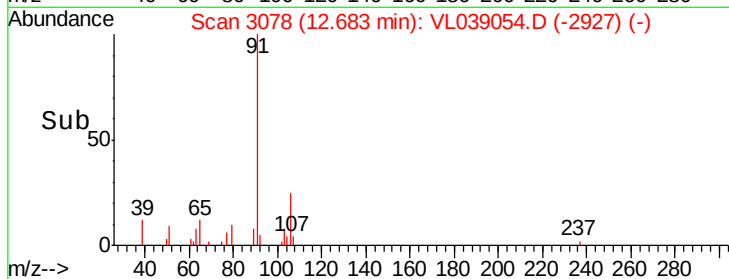
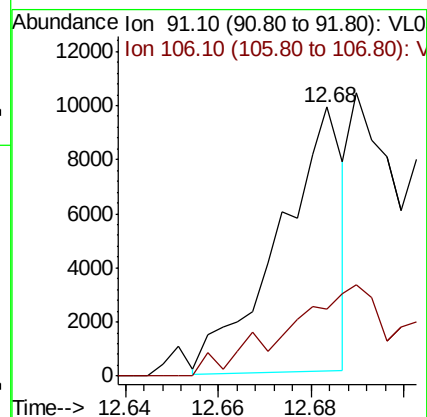
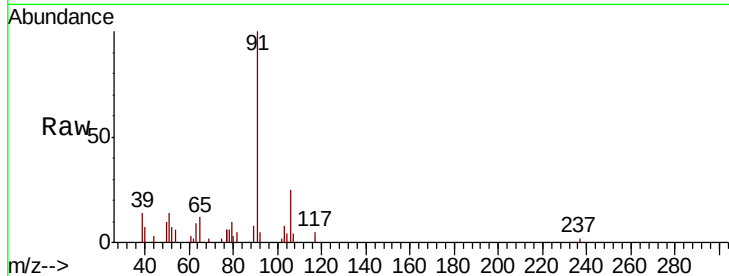
Acq: 14 May 2022 2:34

Tot Ion: 91 Resp: 9403

Ion Ratio Lower Upper

91 100

106 25.4 24.2 36.4



#59

m/p-Xylene

Concen: 0.035 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL039054.D

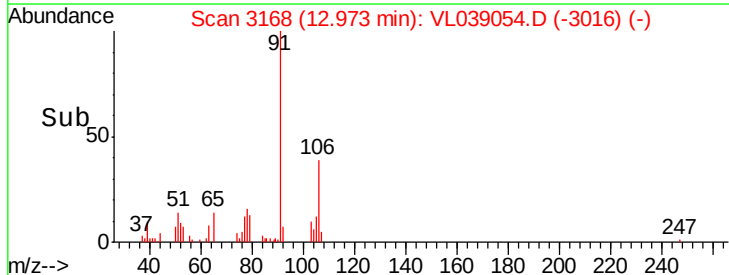
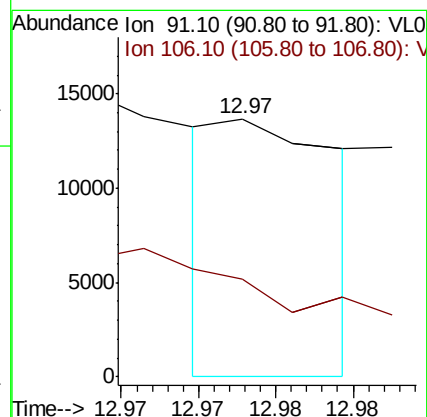
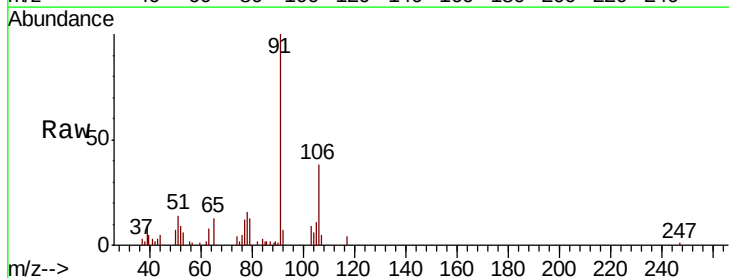
Acq: 14 May 2022 2:34

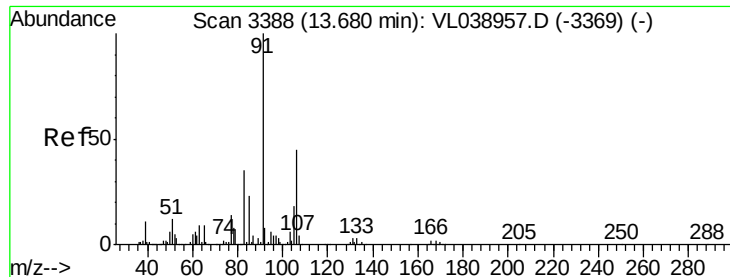
Tgt Ion: 91 Resp: 7354

Ion Ratio Lower Upper

91 100

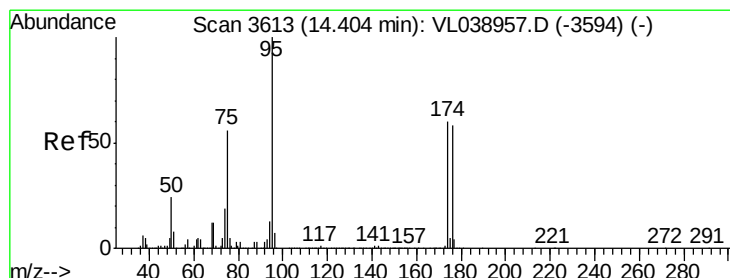
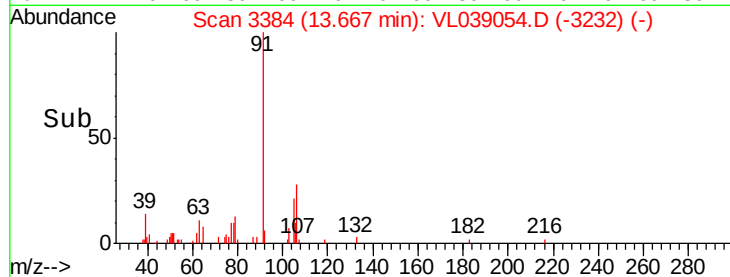
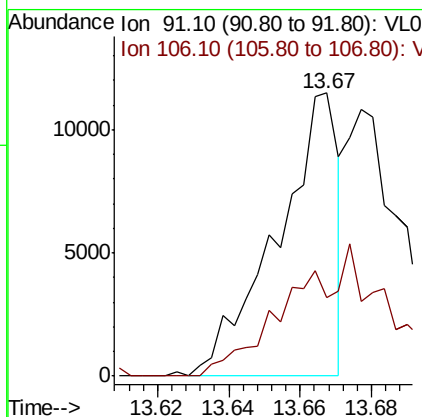
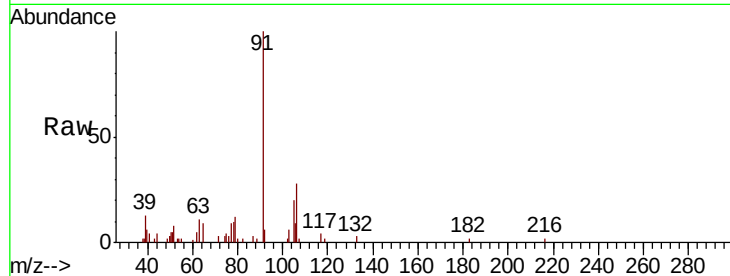
106 0.0 34.6 52.0#





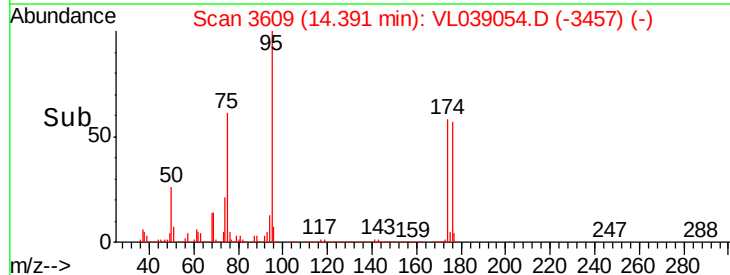
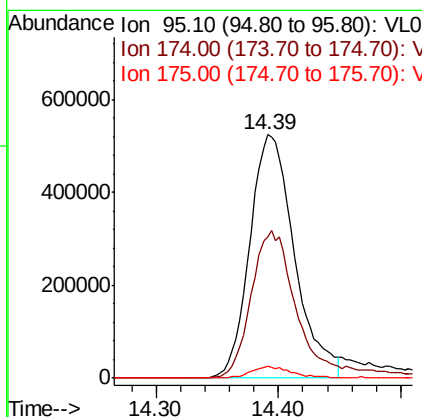
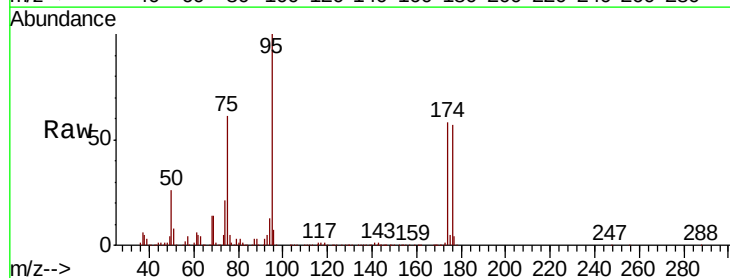
#60
o-Xylene
Concen: 0.068 ppbv
RT: 13.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 2:34

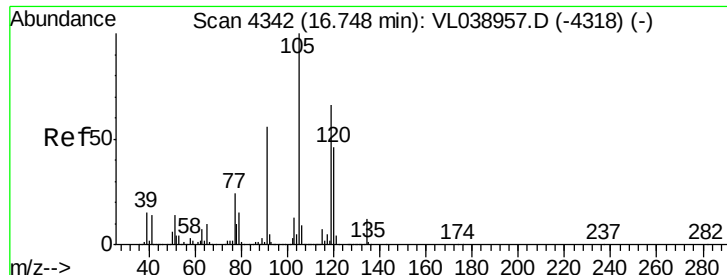
Tot Ion	91	Resp	13648
Ion Ratio	100		
Lower	22.2		
Upper	66.6		



#68
1-Bromo-4-Fluorobenzene
Concen: 9.720 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.01 min
Lab File: VL039054.D
Acq: 14 May 2022 2:34

Tgt Ion	95	Resp	1329640
Ion Ratio	100		
Lower	50.8		
Upper	76.2		
174	66.5		
175	4.4		





#74
 1,2,4-Trimethylbenzene
 Concen: 0.173 ppbv
 RT: 16.73
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 2:34

Tot Ion:	105	Resp:	38911
Ion Ratio	Lower	Upper	
105	100		
120	34.6	36.9	55.3#
91	16.9	45.0	67.4#
77	12.9	19.2	28.8#

