

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039052.D
 Acq On : 14 May 2022 1:13
 Operator : SY/AP
 Sample : N2828-01DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: May 14 03:47:32 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 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	876030	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2082637	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1707861	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1389485	10.27	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

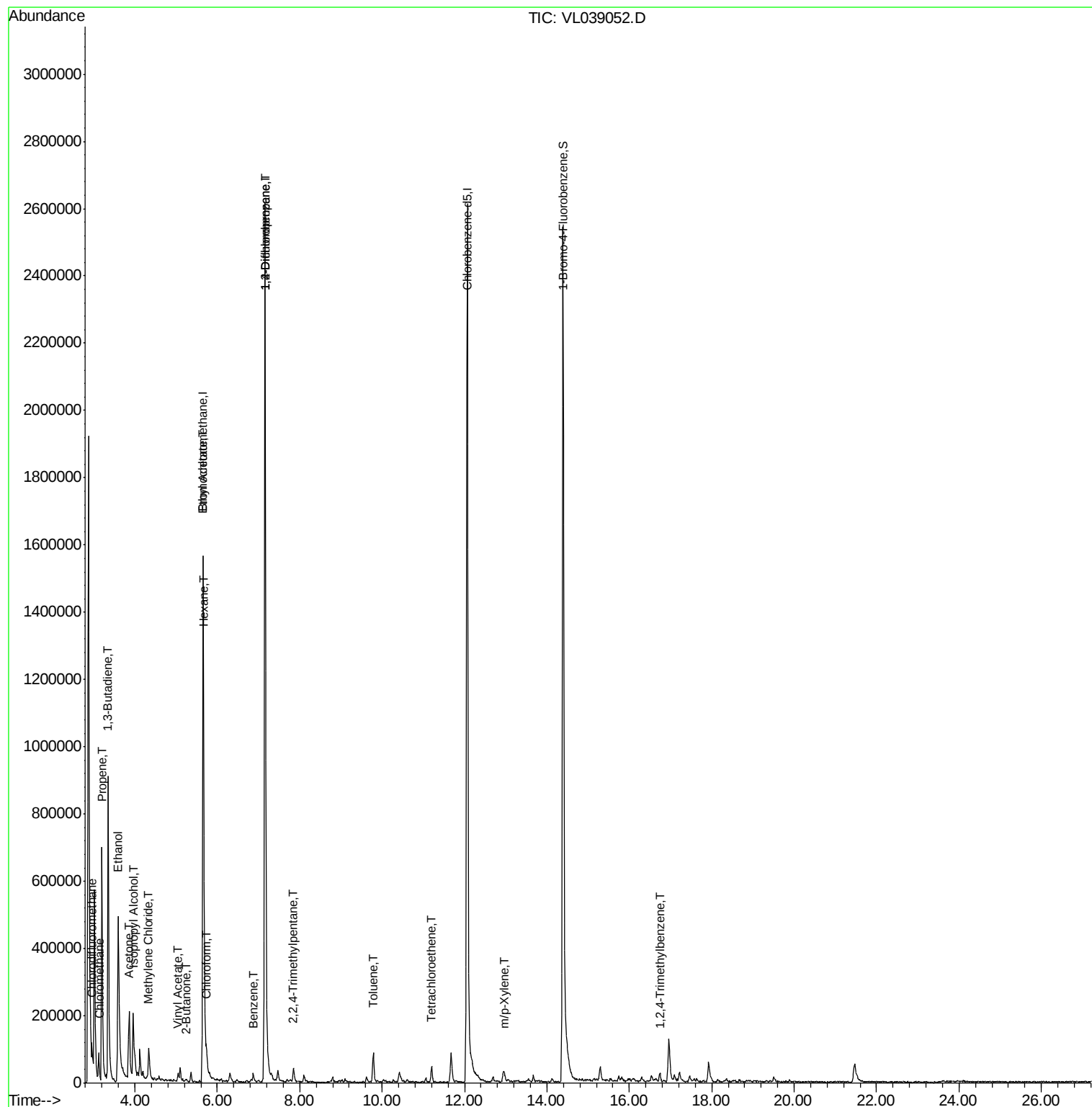
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	106528	0.980	ppbv #	70
4) Chloromethane	3.14	50	5004	0.092	ppbv #	58
9) Propene	3.20	41	260250	5.482	ppbv	88
13) Ethanol	3.59	45	441523	131.426	ppbv	65
15) Acetone	3.84	43	131559	1.592	ppbv	90
16) 1,3-Butadiene	3.35	39	131966	2.780	ppbv #	12
19) Isopropyl Alcohol	3.96	45	256812	6.536	ppbv	100
20) Methylene Chloride	4.33	84	17957	0.577	ppbv	93
23) Vinyl Acetate	5.05	43	10038	0.154	ppbv #	1
25) Ethyl Acetate	5.66	43	39134	0.198	ppbv #	83
26) Hexane	5.67	57	45132	0.514	ppbv #	73
29) Chloroform	5.74	83	32220	0.227	ppbv #	76
34) 2-Butanone	5.24	43	8912	0.084	ppbv #	72
36) Benzene	6.87	78	15761	0.088	ppbv #	84
39) 1,2-Dichloropropane	7.16	63	582655	8.402	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	35348	0.113	ppbv #	80
52) Tetrachloroethene	11.19	164	4052	0.064	ppbv #	83
53) Toluene	9.78	91	42091	0.211	ppbv #	62
59) m/p-Xylene	12.97	91	7017	0.033	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.73	105	7247	0.033	ppbv #	48

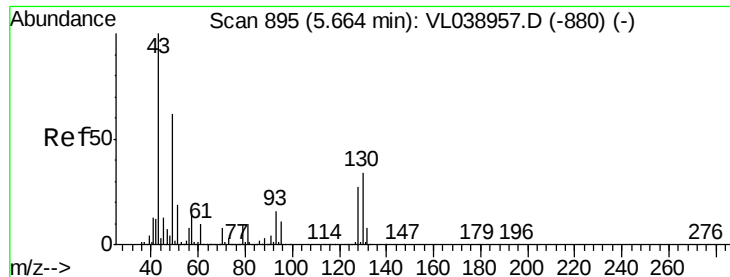
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA2DL

Acq: 14 May 2022 1:13

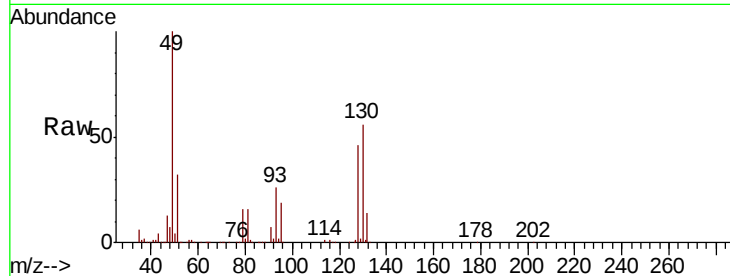
Tot Ion: 49 Resp: 876030

Ion Ratio Lower Upper

49 100

128 47.7 23.3 69.8

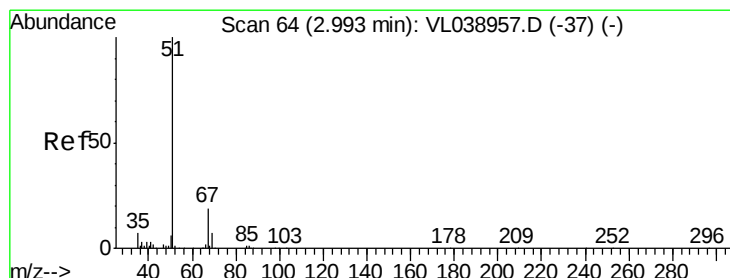
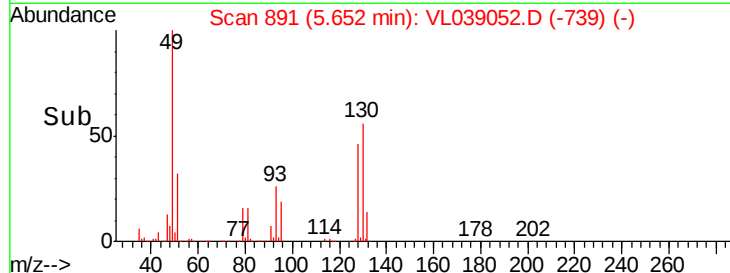
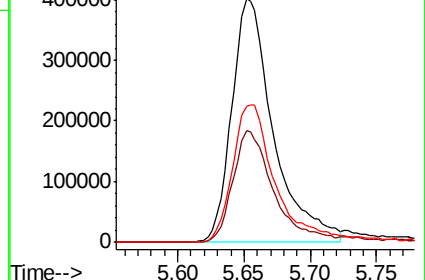
130 59.6 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.980 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL039052.D

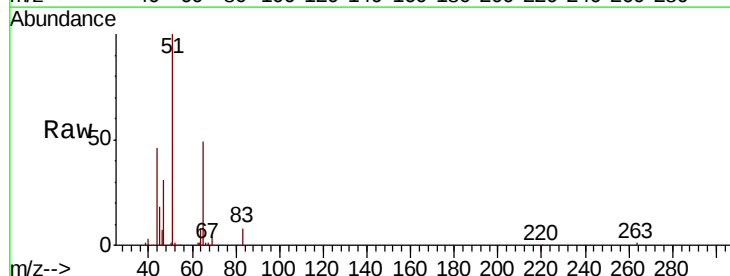
Acq: 14 May 2022 1:13

Tgt Ion: 51 Resp: 106528

Ion Ratio Lower Upper

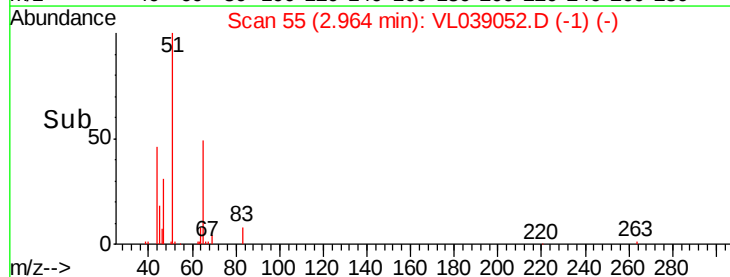
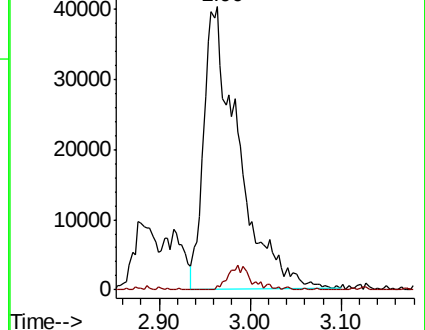
51 100

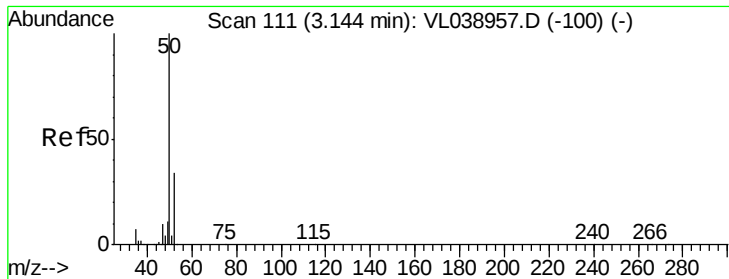
67 6.1 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.092 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

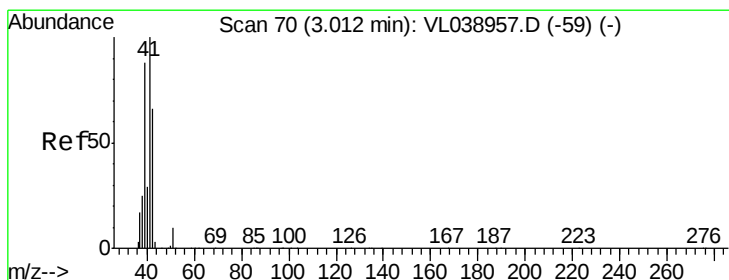
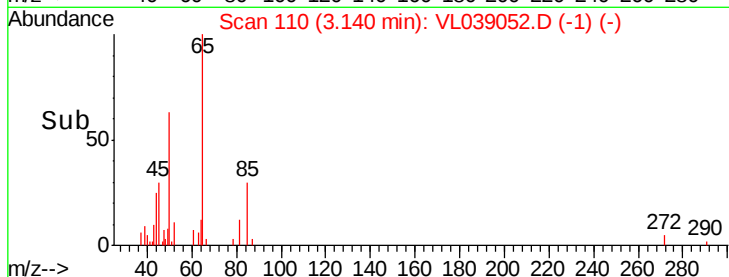
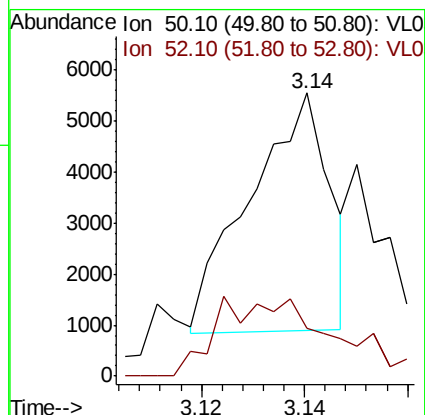
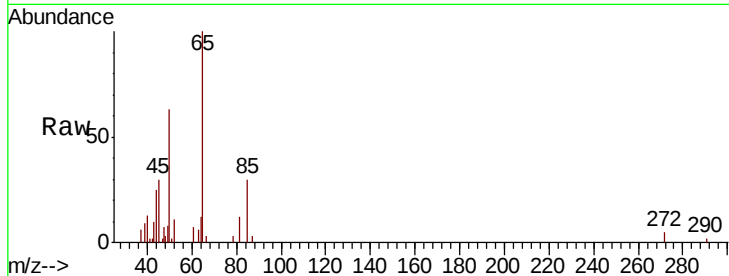
Acq: 14 May 2022 1:13

Tot Ion: 50 Resp: 5004

Ion Ratio Lower Upper

50 100

52 9.9 27.3 40.9#



#9

Propene

Concen: 5.482 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.19 min

Lab File: VL039052.D

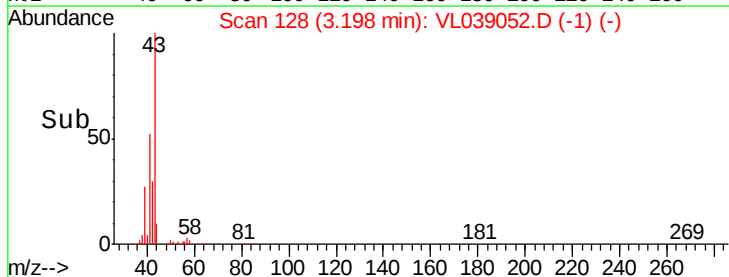
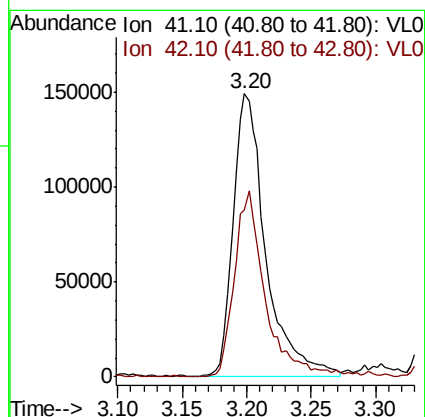
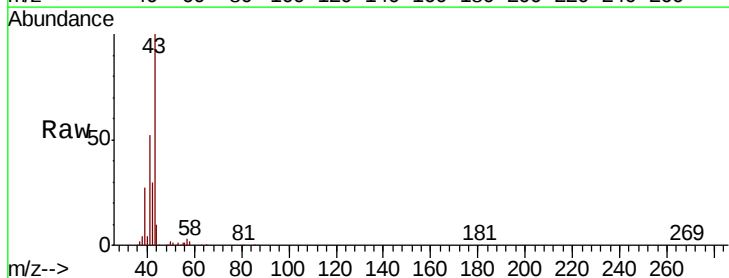
Acq: 14 May 2022 1:13

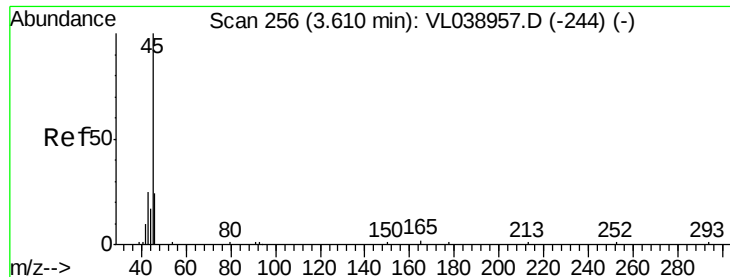
Tgt Ion: 41 Resp: 260250

Ion Ratio Lower Upper

41 100

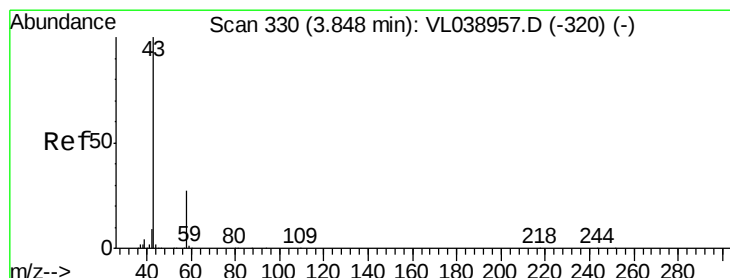
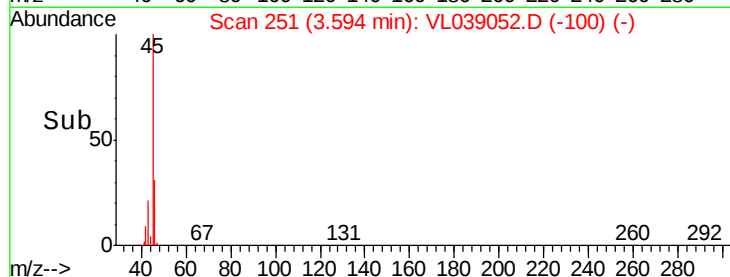
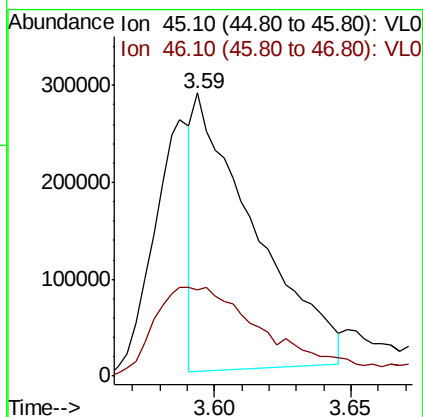
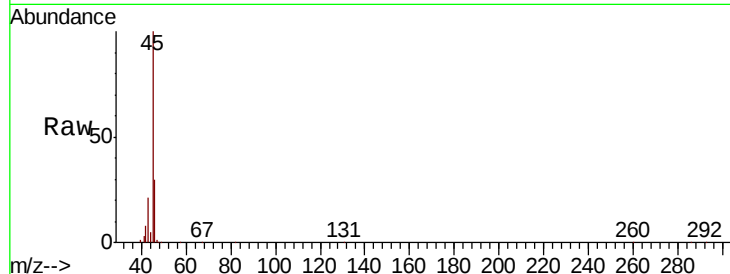
42 62.6 58.3 87.5





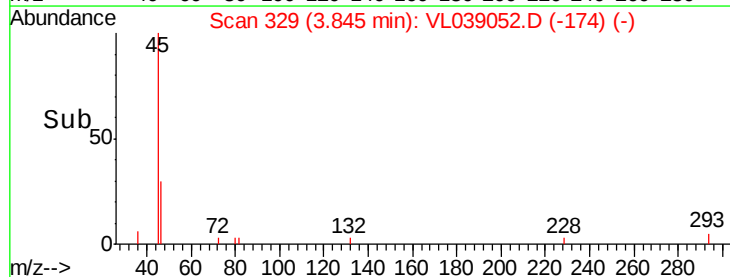
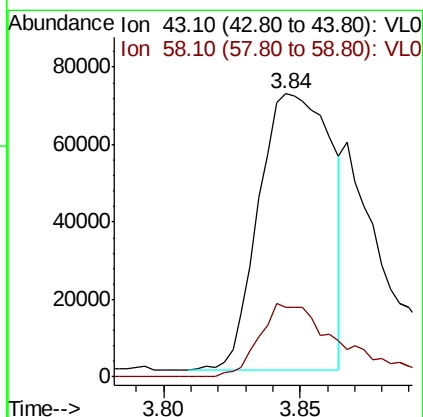
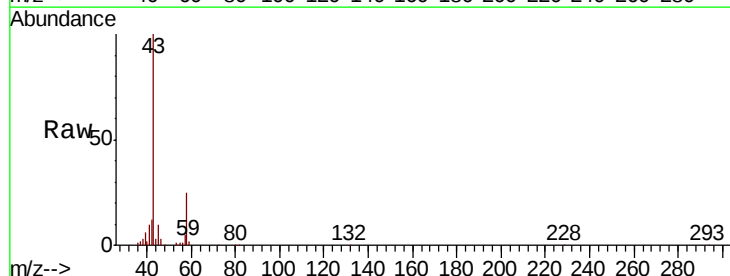
#13
Ethanol
Concen: 131.426 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:13

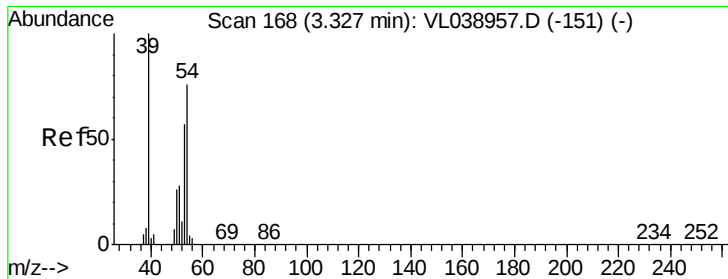
Tot Ion: 45 Resp: 441523
Ion Ratio Lower Upper
45 100
46 68.2 18.0 72.2



#15
Acetone
Concen: 1.592 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL039052.D
Acq: 14 May 2022 1:13

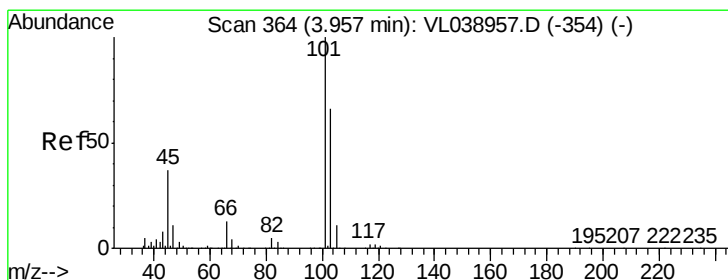
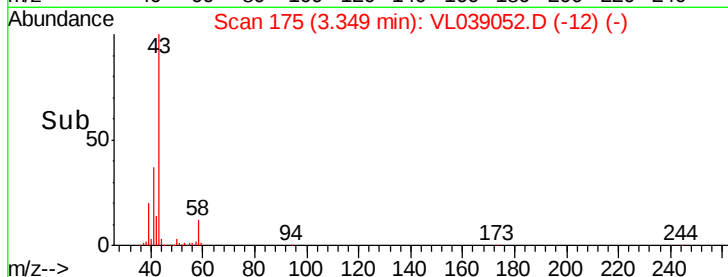
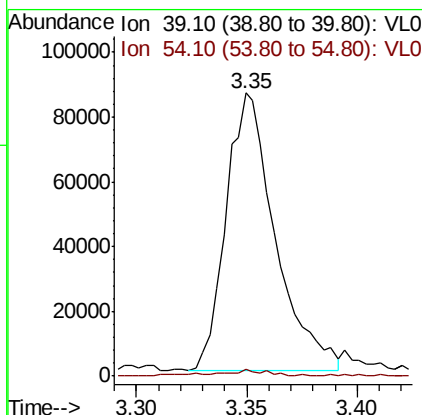
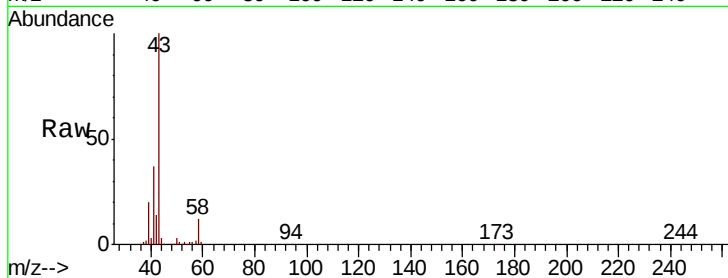
Tgt Ion: 43 Resp: 131559
Ion Ratio Lower Upper
43 100
58 31.8 21.3 31.9





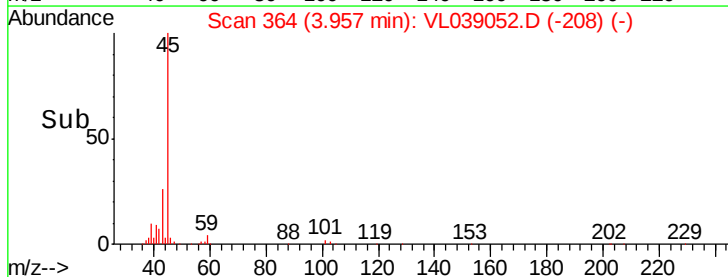
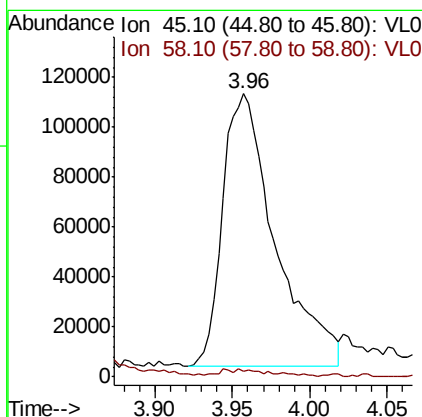
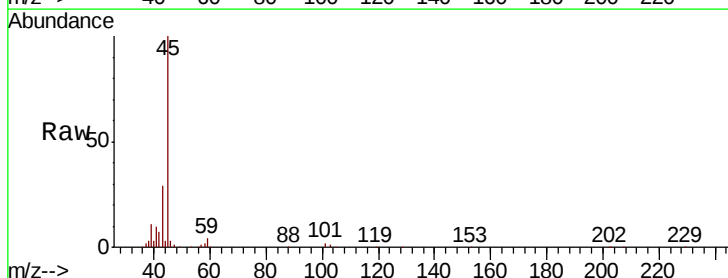
#16
 1,3-Butadiene
 Concen: 2.780 ppbv
 RT: 3.35
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 1:13

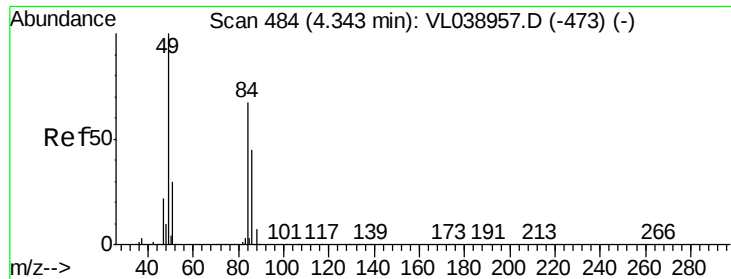
Tot Ion: 39 Resp: 131966
 Ion Ratio Lower Upper
 39 100
 54 2.6 65.2 97.8#



#19
 Isopropyl Alcohol
 Concen: 6.536 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL039052.D
 Acq: 14 May 2022 1:13

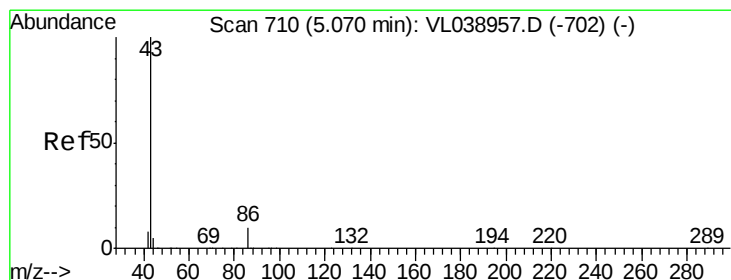
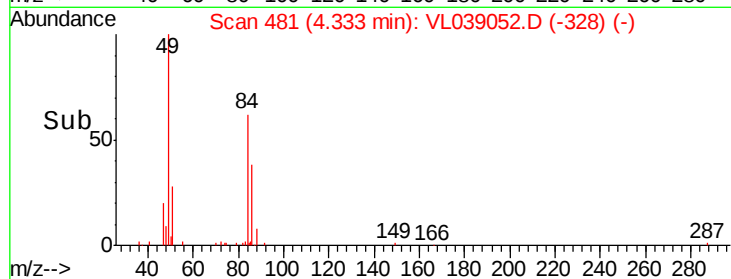
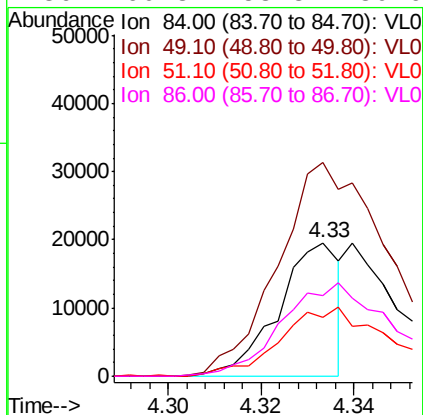
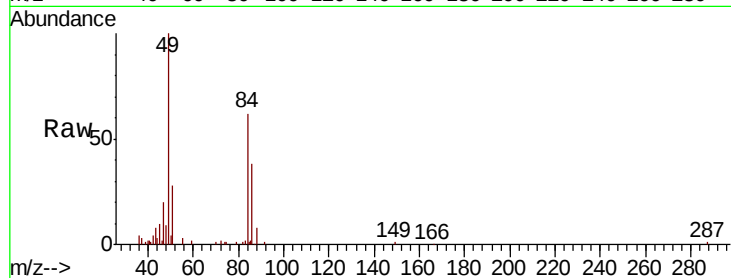
Tgt Ion: 45 Resp: 256812
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.4 2.2





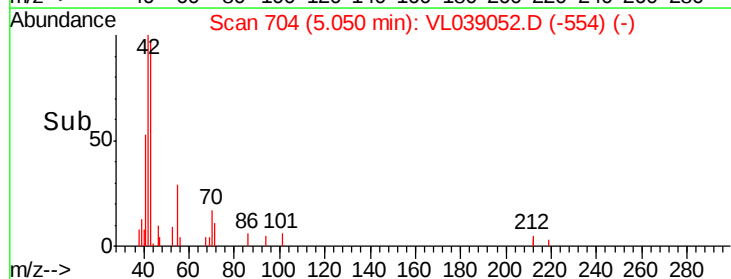
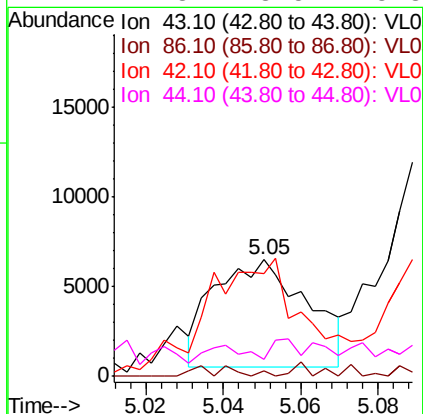
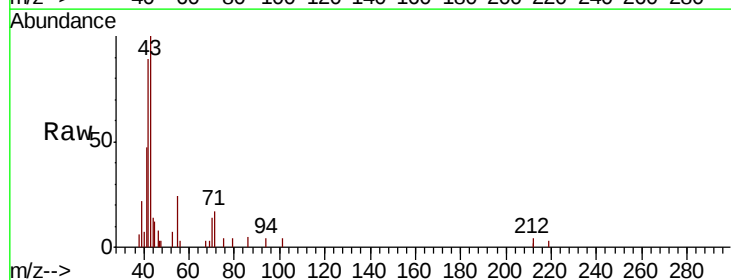
#20
Methvlene Chloride
Concen: 0.577 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:13

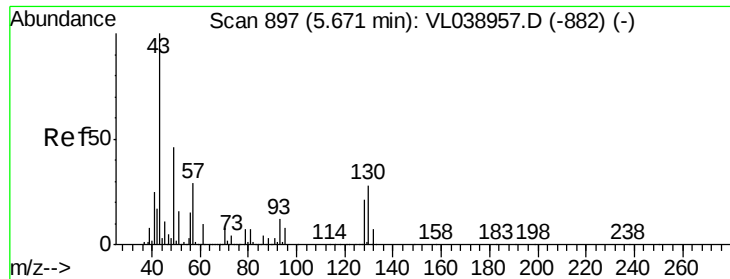
Tot Ion:	84	Resp:	17957
Ion	Ratio	Lower	Upper
84	100		
49	159.2	119.9	179.9
51	44.3	35.7	53.5
86	60.3	53.8	80.6



#23
Vinyl Acetate
Concen: 0.154 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.02 min
Lab File: VL039052.D
Acq: 14 May 2022 1:13

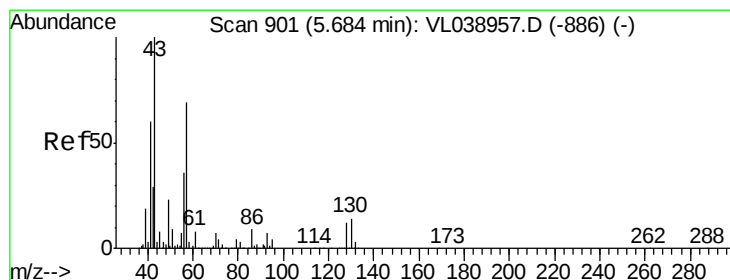
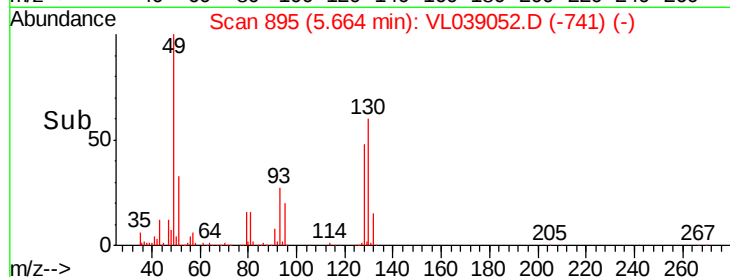
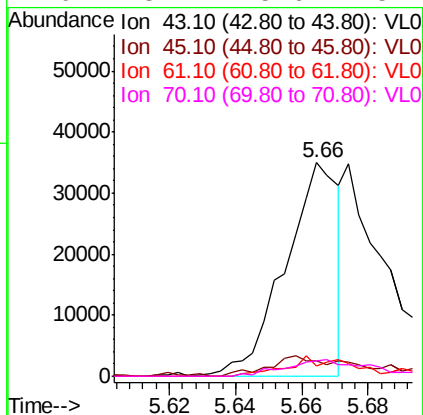
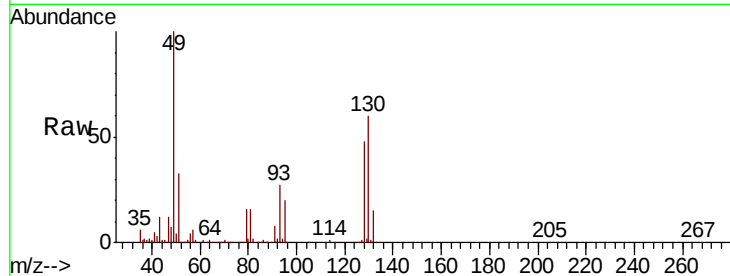
Tgt Ion:	43	Resp:	10038
Ion	Ratio	Lower	Upper
43	100		
86	7.1	6.6	9.8
42	103.3	8.1	12.1#
44	22.8	3.5	5.3#





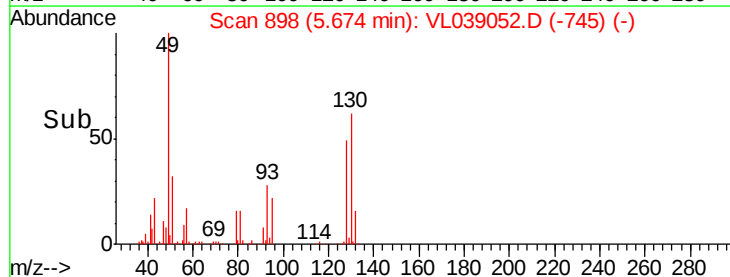
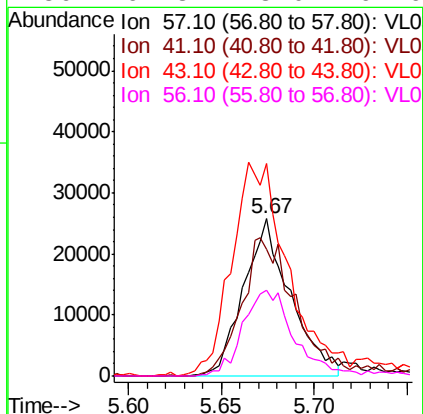
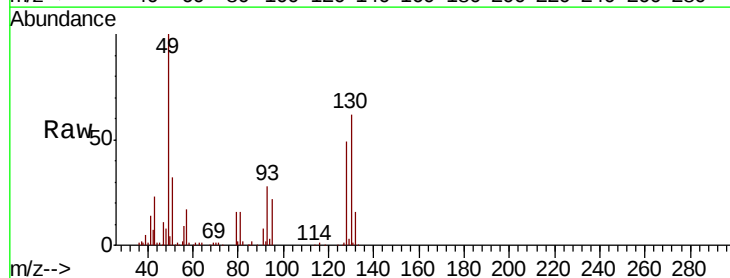
#25
Ethyl Acetate
Concen: 0.198 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
IA2DL
Acq: 14 May 2022 1:13

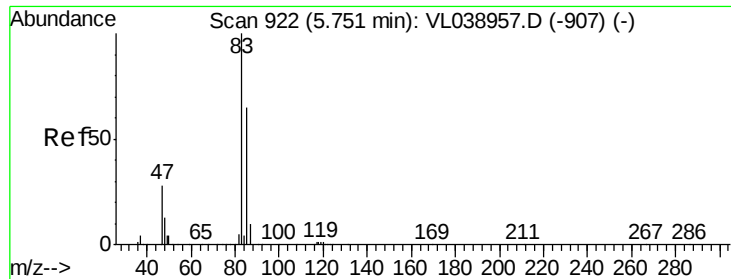
Tot Ion:	43	Resp:	39134
Ion	Ratio	Lower	Upper
43	100		
45	18.3	8.1	12.1#
61	13.8	7.8	11.6#
70	13.2	5.6	8.4#



#26
Hexane
Concen: 0.514 ppbv
RT: 5.67 min Scan# 898
Delta R.T.: -0.01 min
Lab File: VL039052.D
Acq: 14 May 2022 1:13

Tgt Ion:	57	Resp:	45132
Ion	Ratio	Lower	Upper
57	100		
41	106.6	75.2	112.8
43	177.6	190.8	286.2#
56	61.3	43.0	64.6





#29

Chloroform

Concen: 0.227 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

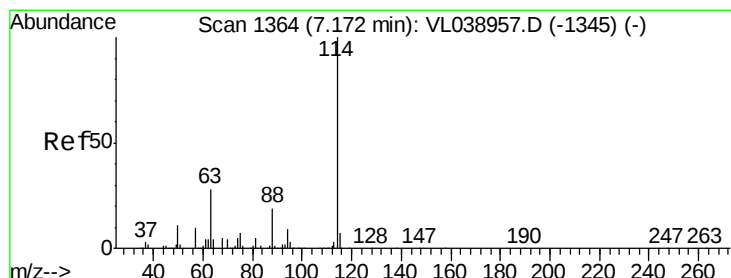
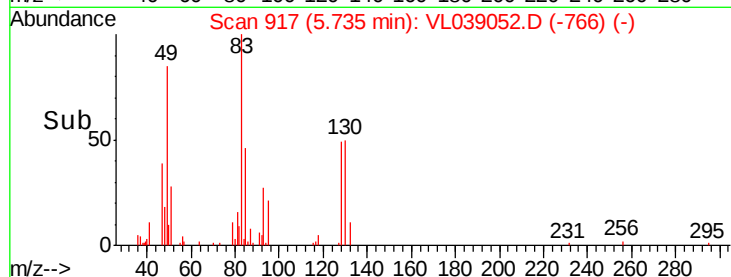
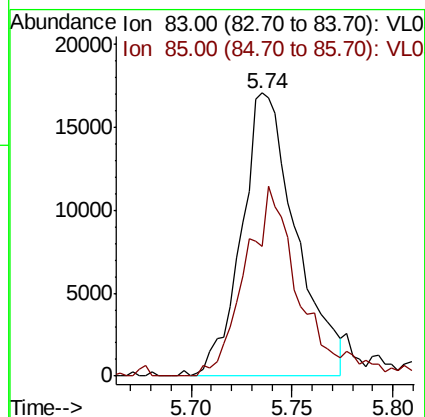
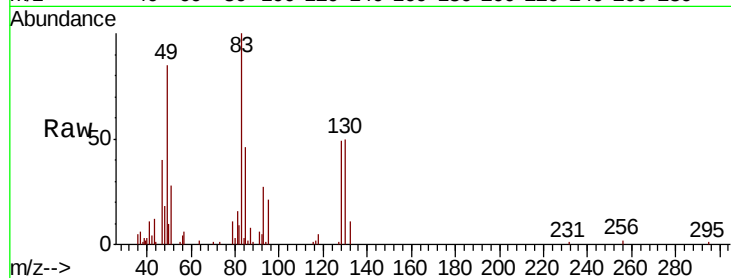
Acq: 14 May 2022 1:13

Tot Ion: 83 Resp: 32220

Ion Ratio Lower Upper

83 100

85 46.1 51.8 77.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VL039052.D

Acq: 14 May 2022 1:13

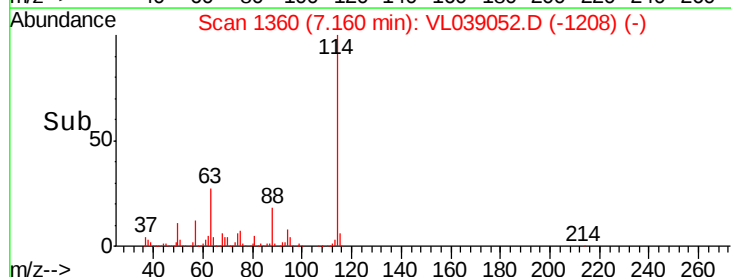
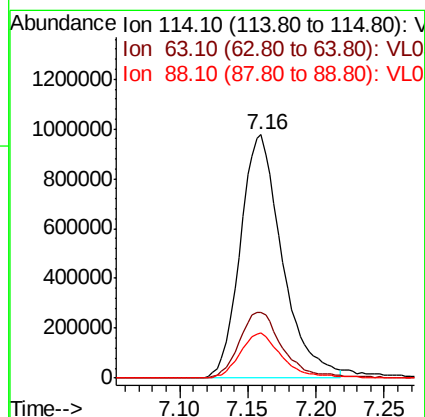
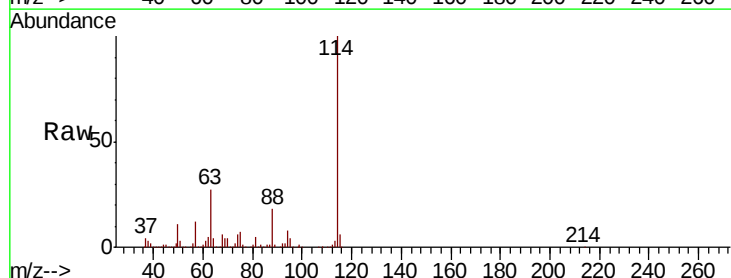
Tgt Ion: 114 Resp: 2082637

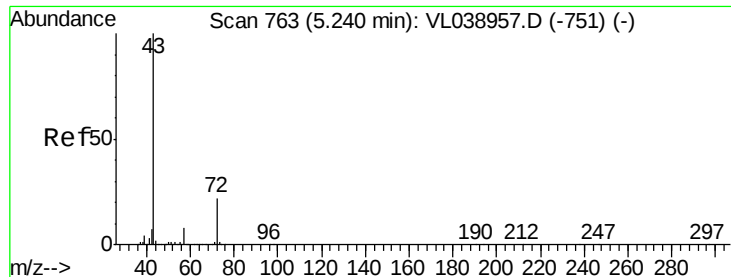
Ion Ratio Lower Upper

114 100

63 28.3 22.6 33.8

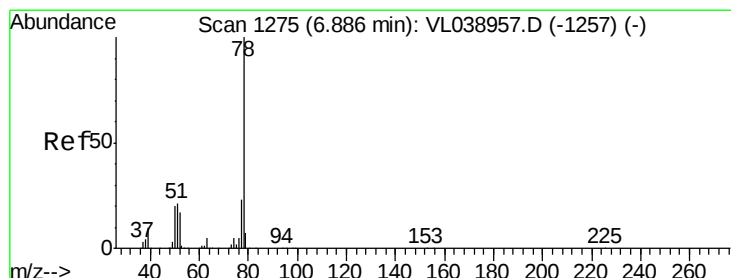
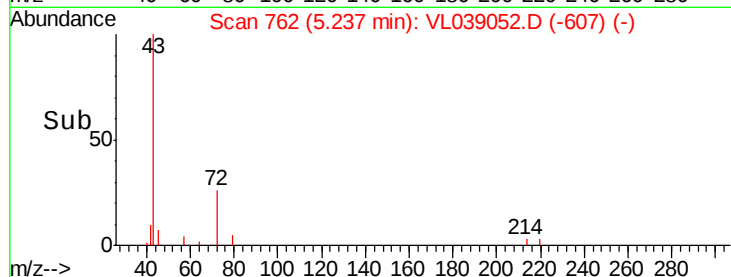
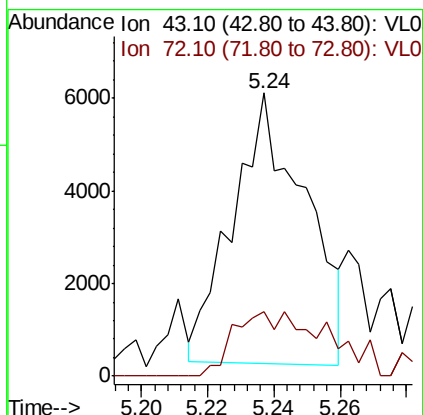
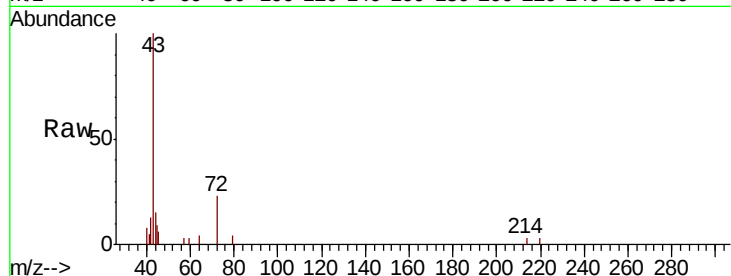
88 19.0 15.4 23.0





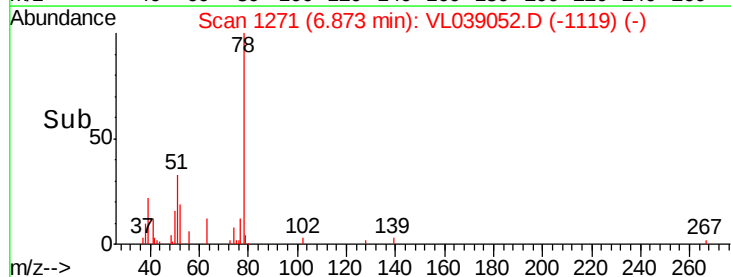
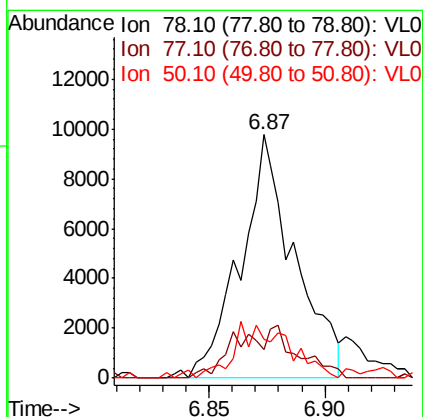
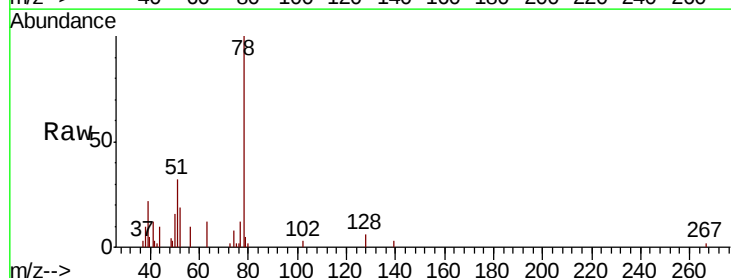
#34
2-Butanone
Concen: 0.084 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 May 2022 1:13

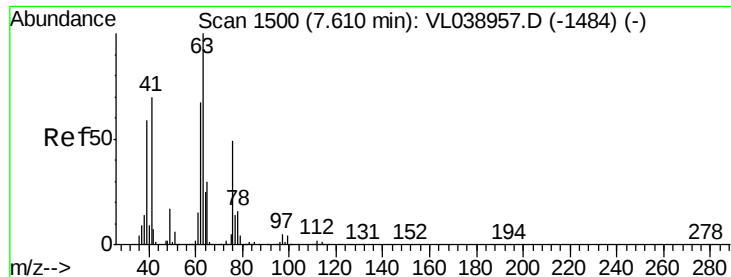
Tot Ion: 43 Resp: 8912
Ion Ratio Lower Upper
43 100
72 35.7 17.8 26.6#



#36
Benzene
Concen: 0.088 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VL039052.D
Acq: 14 May 2022 1:13

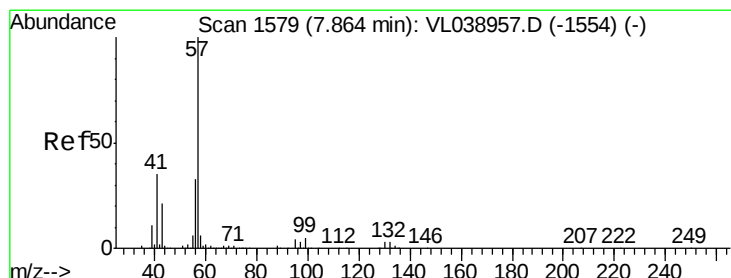
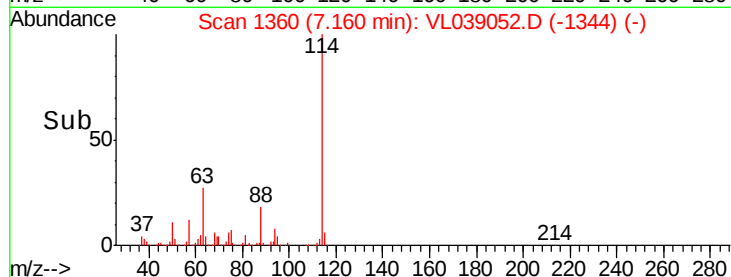
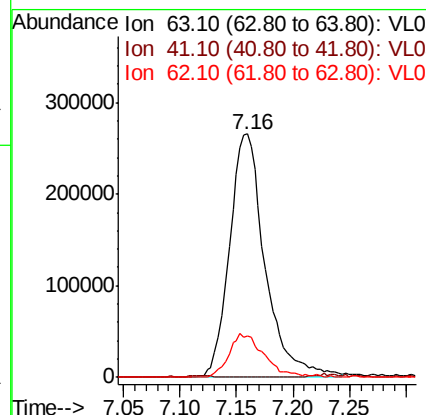
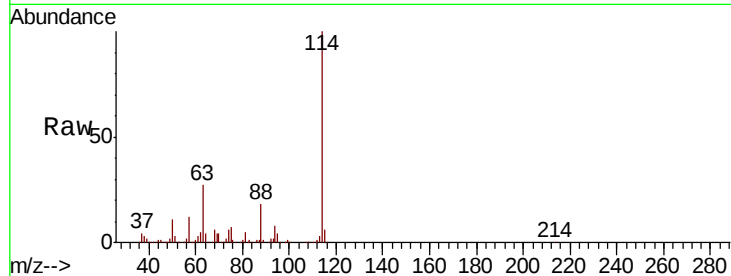
Tgt Ion: 78 Resp: 15761
Ion Ratio Lower Upper
78 100
77 11.9 18.6 28.0#
50 16.1 15.6 23.4





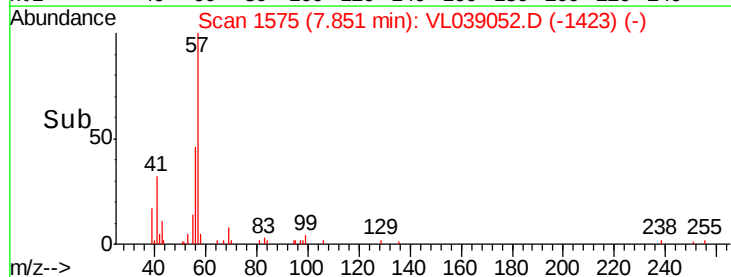
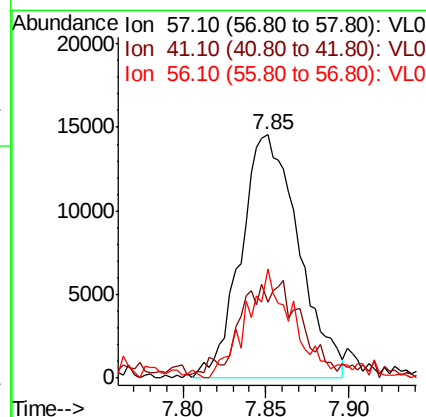
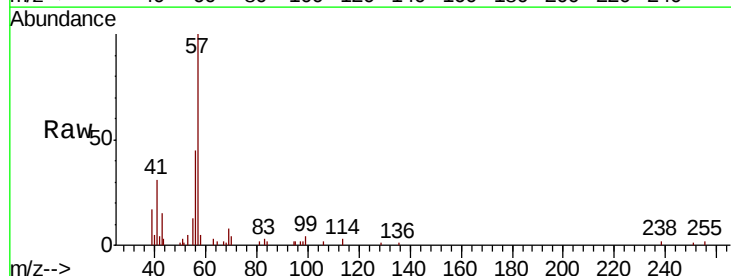
#39
 1,2-Dichloropropane
 Concen: 8.402 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 1:13

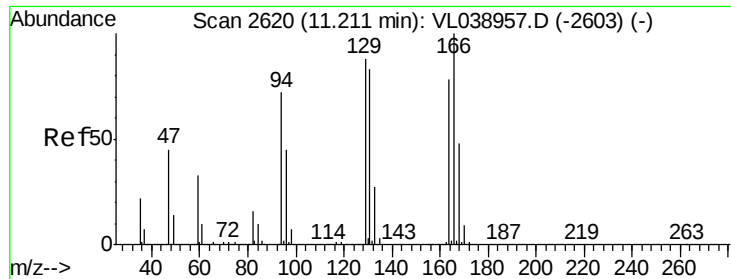
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	16.9	53.8	80.6#



#44
 2,2,4-Trimethylpentane
 Concen: 0.113 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: VL039052.D
 Acq: 14 May 2022 1:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	46.1	26.3	39.5#
56	39.7	24.6	37.0#





#52

Tetrachloroethene

Concen: 0.064 ppbv

RT: 11.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 1:13

Tot Ion:164 Resp: 4052

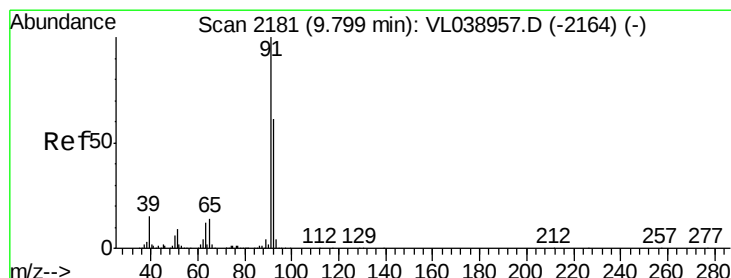
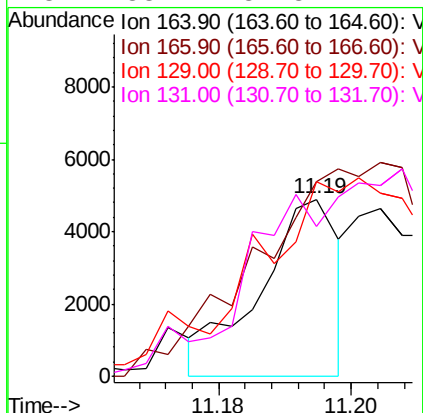
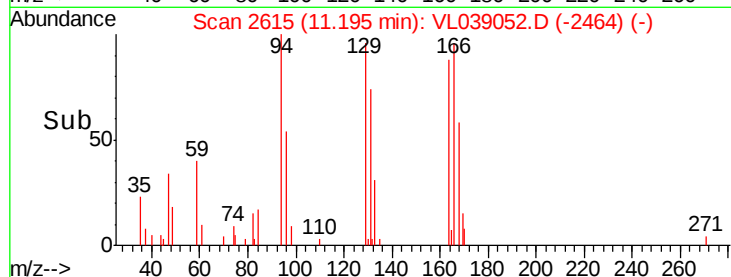
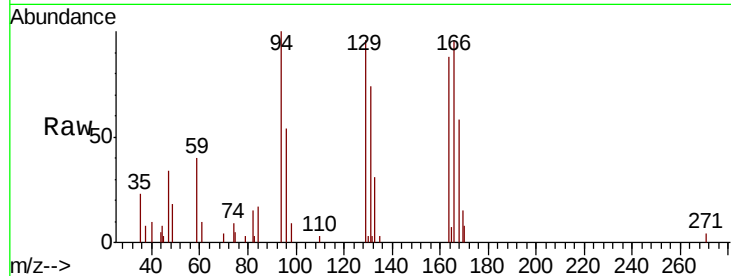
Ion Ratio Lower Upper

164 100

166 104.3 102.5 153.7

129 105.0 90.1 135.1

131 83.2 84.8 127.2#



#53

Toluene

Concen: 0.211 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL039052.D

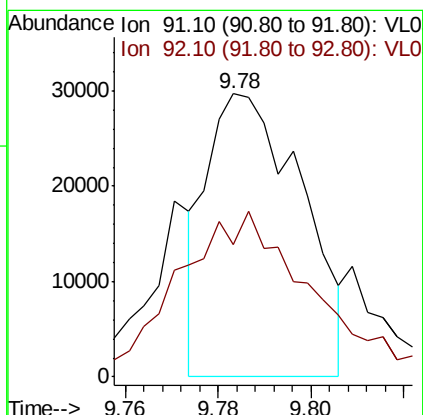
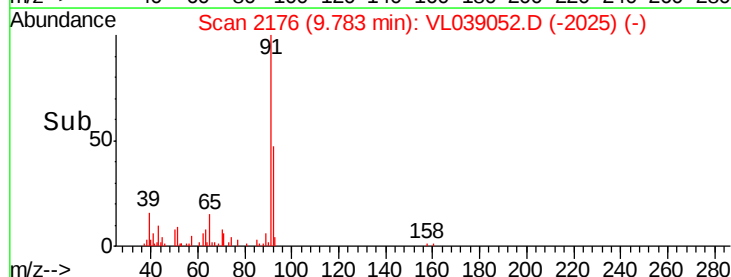
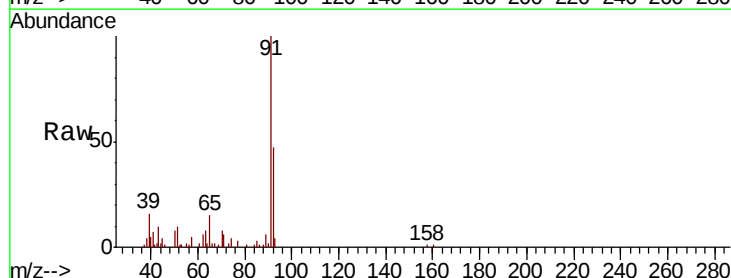
Acq: 14 May 2022 1:13

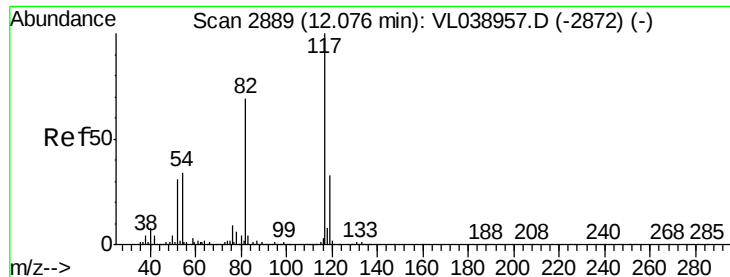
Tgt Ion: 91 Resp: 42091

Ion Ratio Lower Upper

91 100

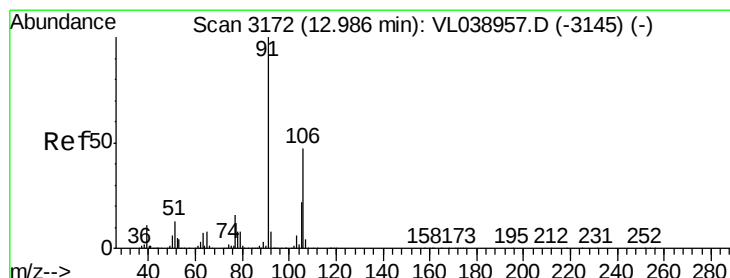
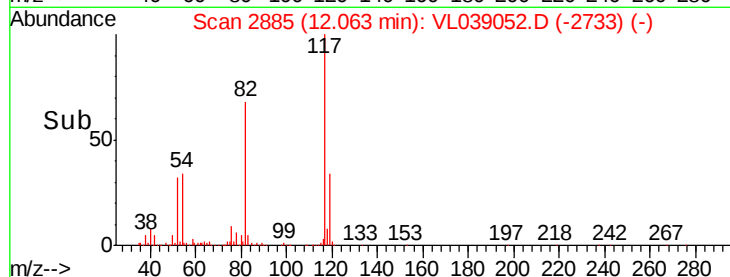
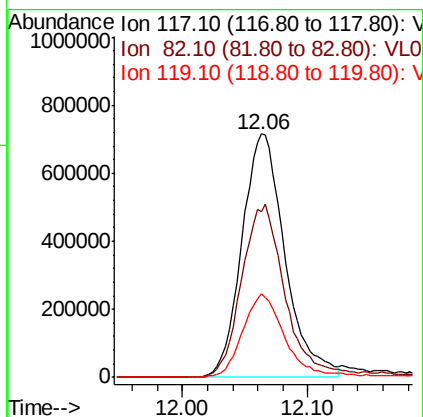
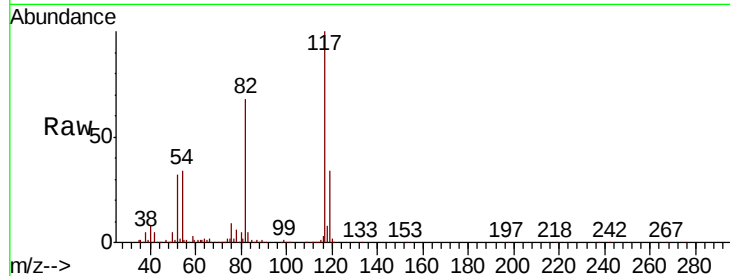
92 89.1 48.2 72.2#





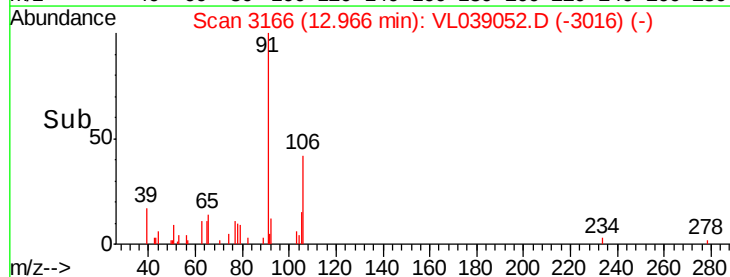
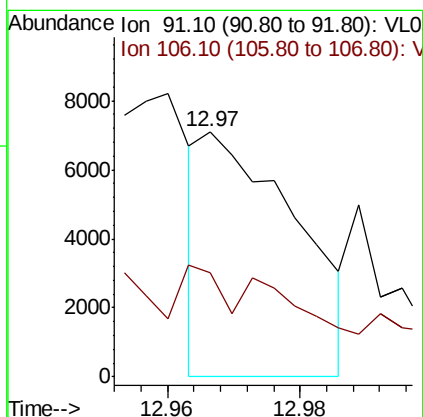
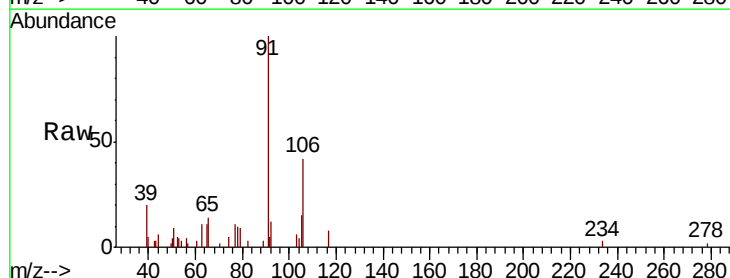
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 1:13

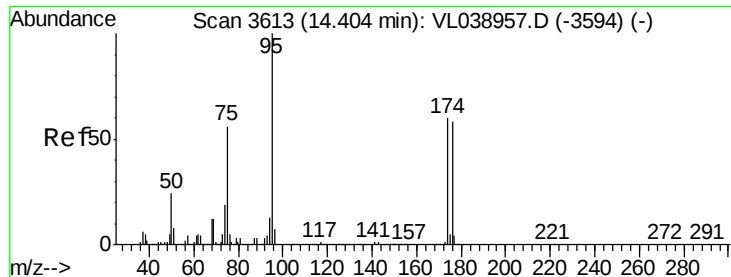
Tot Ion: 117 Resp: 1707861
Ion Ratio Lower Upper
117 100
82 74.4 57.0 85.6
119 34.9 27.2 40.8



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 12.97 min Scan# 3166
Delta R.T.: -0.02 min
Lab File: VL039052.D
Acq: 14 May 2022 1:13

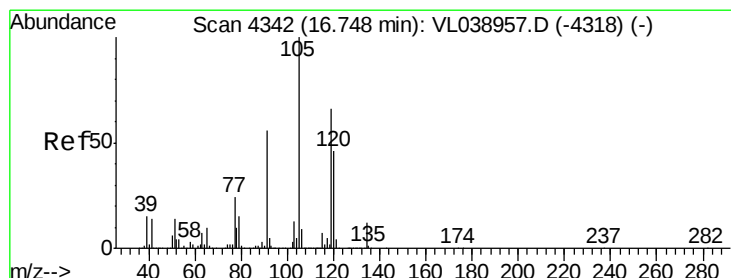
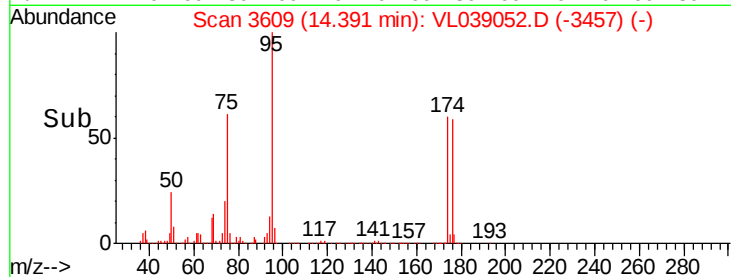
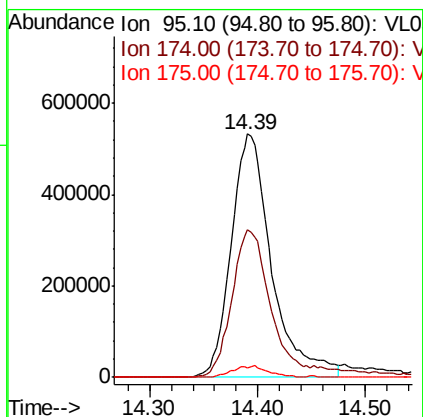
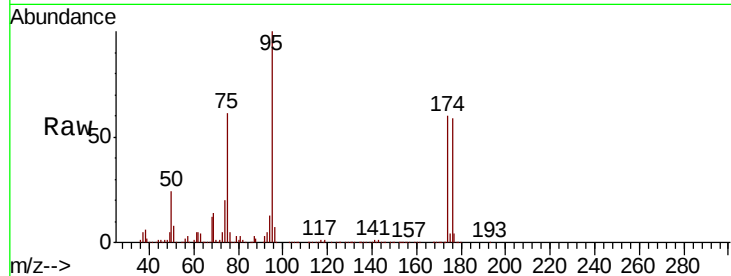
Tgt Ion: 91 Resp: 7017
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.273 ppbv
 RT: 14.39 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 1:13

Tot Ion: 95 Resp: 1389485
 Ion Ratio Lower Upper
 95 100
 174 63.8 50.8 76.2
 175 4.5 3.8 5.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.033 ppbv
 RT: 16.73 min Scan# 4337
 Delta R.T. -0.02 min
 Lab File: VL039052.D
 Acq: 14 May 2022 1:13

Tgt Ion:105 Resp: 7247
 Ion Ratio Lower Upper
 105 100
 120 15.1 36.9 55.3#
 91 3.4 45.0 67.4#
 77 15.8 19.2 28.8#

