

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038396.D
 Acq On : 22 Feb 2022 20:15
 Operator : SY/AP
 Sample : N1607-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-6DL

Quant Time: Mar 14 08:01:38 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	938605	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2196336	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2015733	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1680431	10.08	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

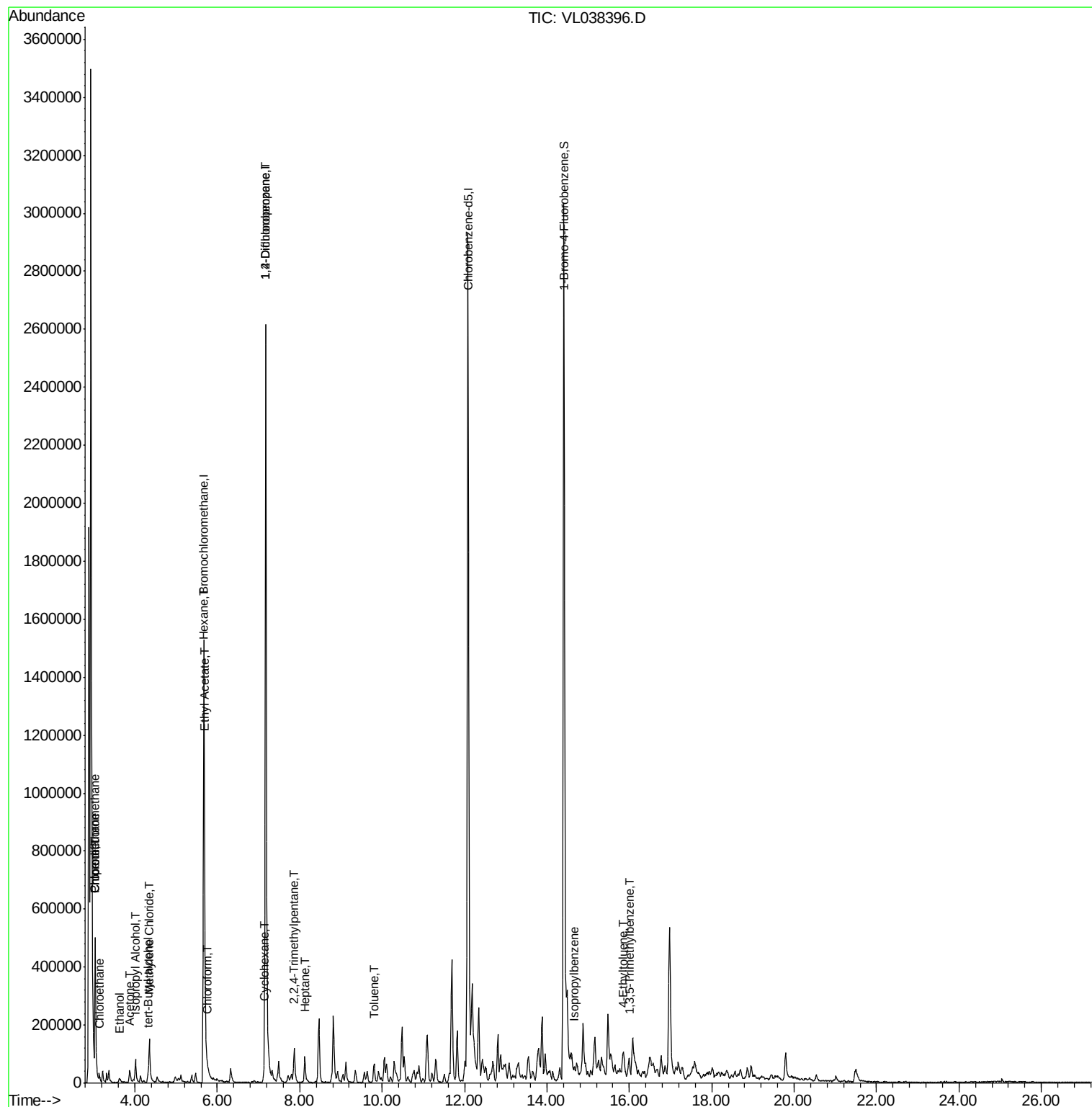
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.03	51	245241	1.48	ppbv #	60
4) Chloromethane	3.04	50	3150	0.05	ppbv	97
7) Chloroethane	3.14	64	783	0.04	ppbv #	80
9) Propene	3.02	41	12019	0.22	ppbv	89
10) Heptane	8.12	43	20824	0.16	ppbv #	33
13) Ethanol	3.62	45	7319	1.34	ppbv #	31
15) Acetone	3.87	43	17476	0.22	ppbv #	48
17) tert-Butyl alcohol	4.32	59	26804	0.34	ppbv #	85
19) Isopropyl Alcohol	4.01	45	24172	0.52	ppbv #	93
20) Methylene Chloride	4.35	84	52943	1.34	ppbv	97
25) Ethyl Acetate	5.69	43	47304	0.22	ppbv #	77
26) Hexane	5.69	57	30740	0.32	ppbv #	1
29) Chloroform	5.75	83	5031	0.03	ppbv	94
30) Cyclohexane	7.13	84	12059	0.15	ppbv #	15
39) 1,2-Dichloropropane	7.18	63	579069	7.52	ppbv #	26
44) 2,2,4-Trimethylpentane	7.87	57	80155	0.24	ppbv #	66
53) Toluene	9.81	91	33171	0.16	ppbv	99
62) Isopropylbenzene	14.66	105	14406	0.05	ppbv #	69
72) 4-Ethyltoluene	15.84	105	8404	0.03	ppbv #	50
73) 1,3,5-Trimethylbenzene	16.00	105	27747	0.12	ppbv	93

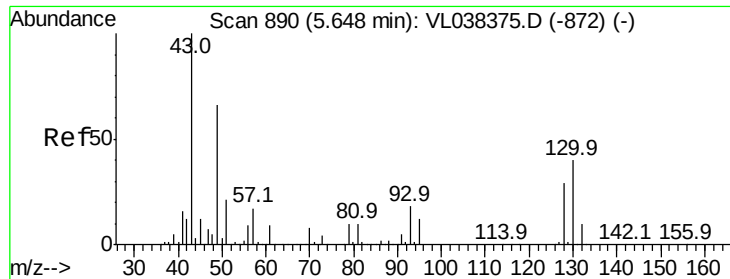
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-6DL

Acq: 22 Feb 2022 20:15

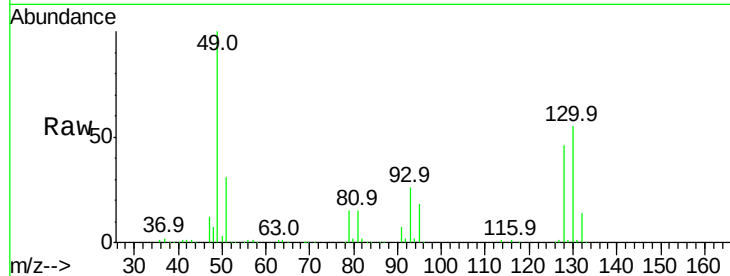
Tgt Ion: 49 Resp: 938605

Ion Ratio Lower Upper

49 100

128 45.6 24.3 72.9

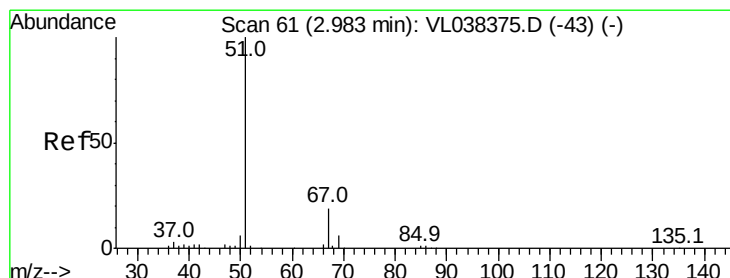
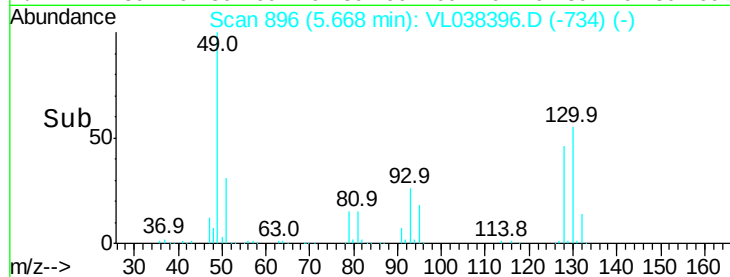
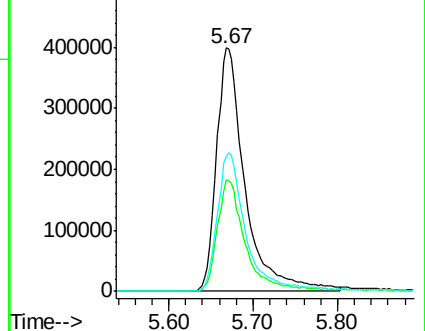
130 57.4 30.1 90.5



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: 1.48 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.05 min

Lab File: VL038396.D

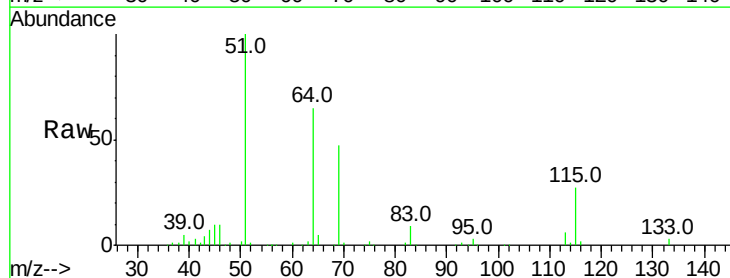
Acq: 22 Feb 2022 20:15

Tgt Ion: 51 Resp: 245241

Ion Ratio Lower Upper

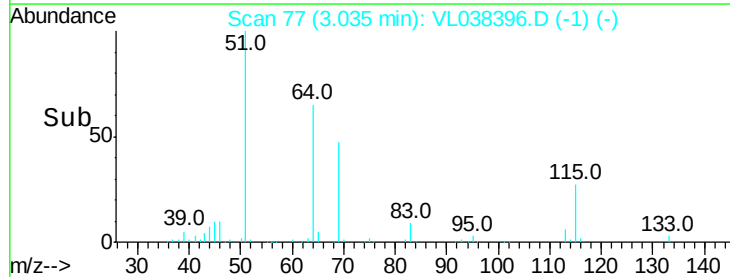
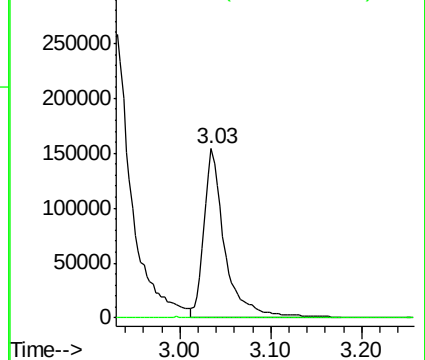
51 100

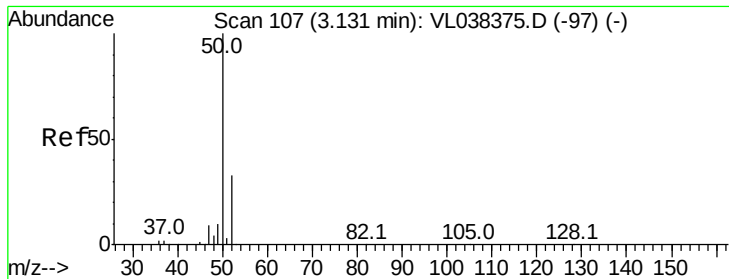
67 0.5 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.05 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

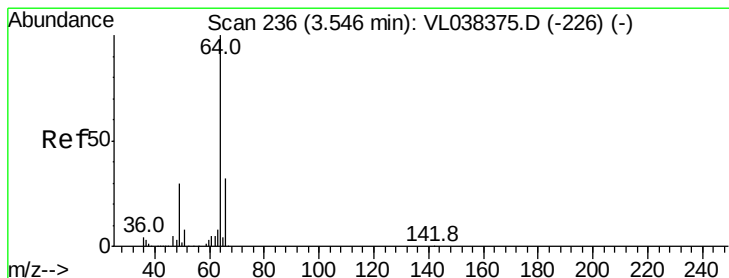
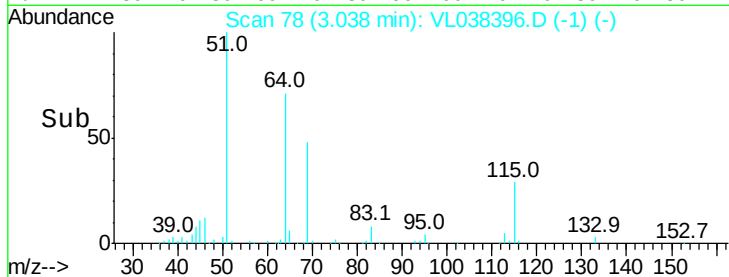
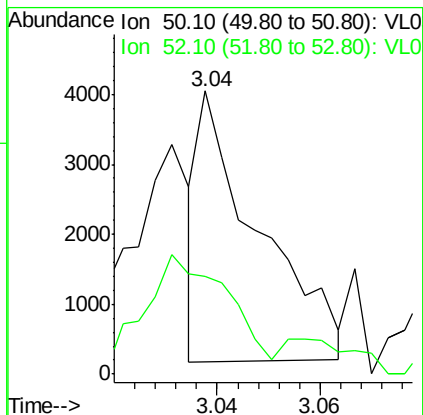
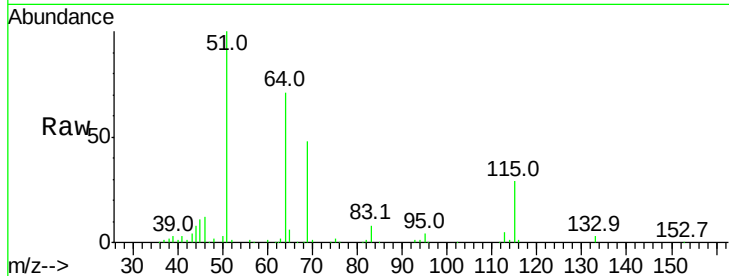
Acq: 22 Feb 2022 20:15

Tgt Ion: 50 Resp: 3150

Ion Ratio Lower Upper

50 100

52 31.7 26.5 39.7



#7

Chloroethane

Concen: 0.04 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.41 min

Lab File: VL038396.D

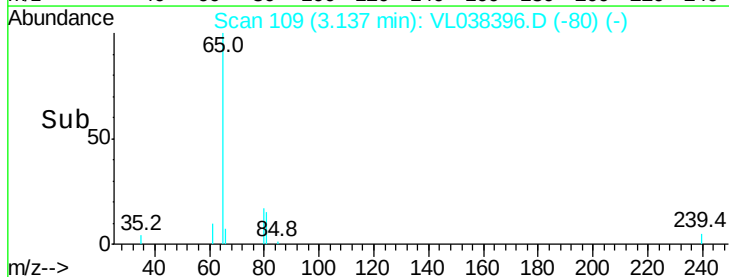
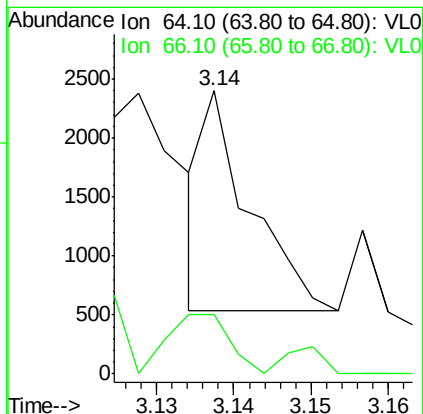
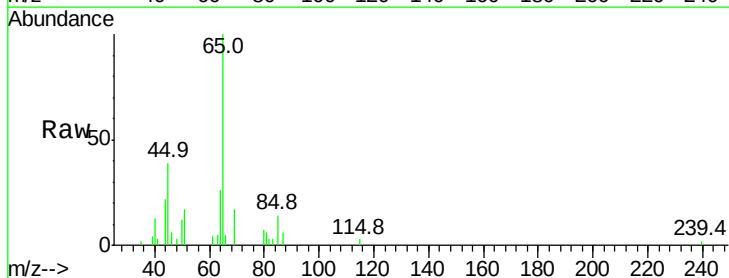
Acq: 22 Feb 2022 20:15

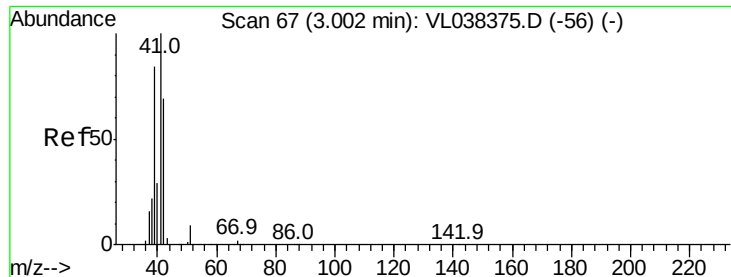
Tgt Ion: 64 Resp: 783

Ion Ratio Lower Upper

64 100

66 21.0 25.9 38.9#





#9

Propene

Concen: 0.22 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. 0.03 min

Lab File: ClientSampleId: MP-6DL

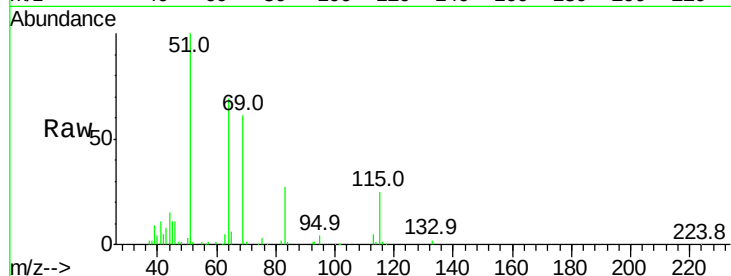
Acq: 22 Feb 2022 20:15

Tgt Ion: 41 Resp: 12019

Ion Ratio Lower Upper

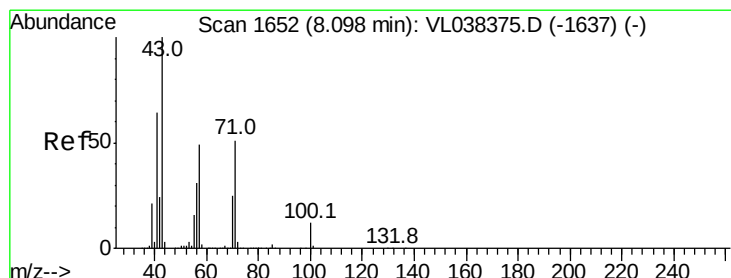
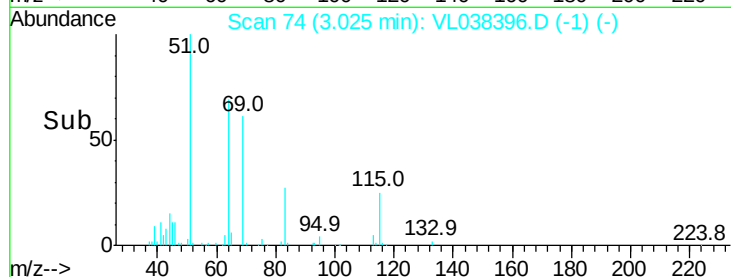
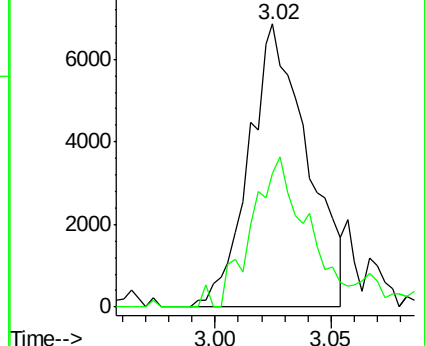
41 100

42 59.3 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.16 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.03 min

Lab File: VL038396.D

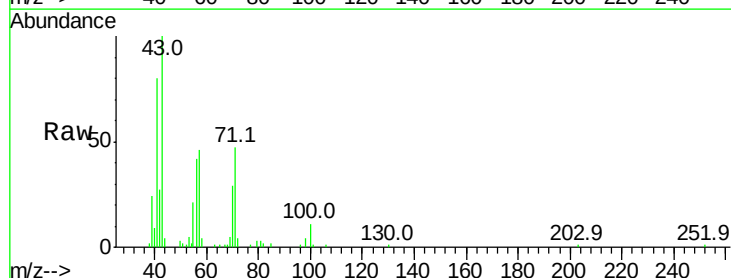
Acq: 22 Feb 2022 20:15

Tgt Ion: 43 Resp: 20824

Ion Ratio Lower Upper

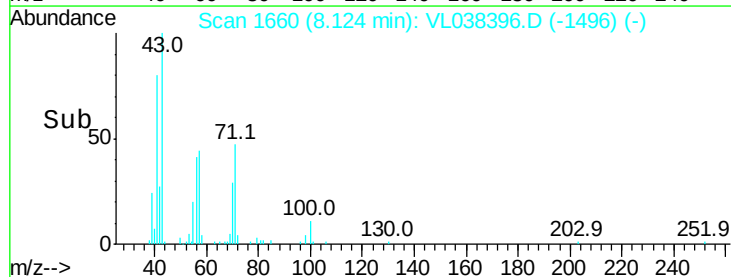
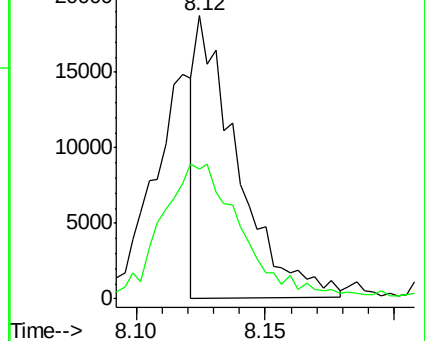
43 100

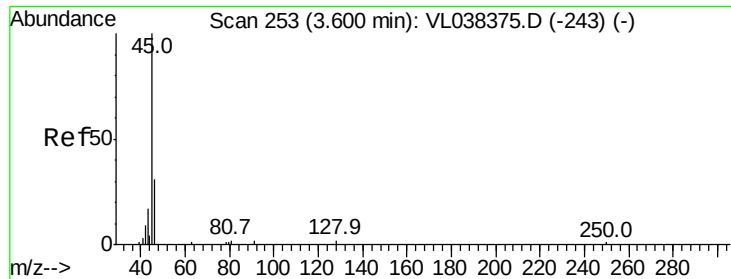
57 95.8 39.8 59.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 1.34 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

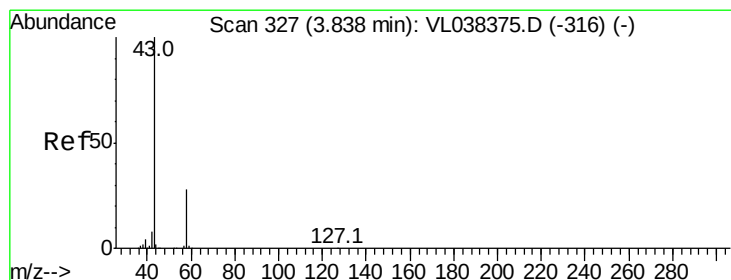
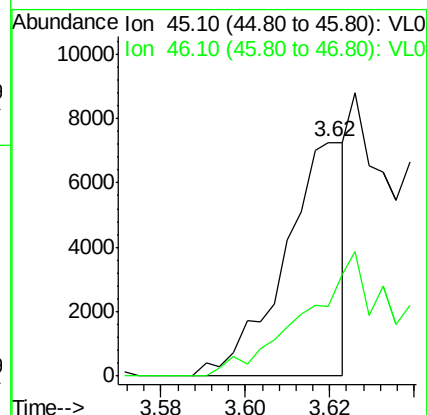
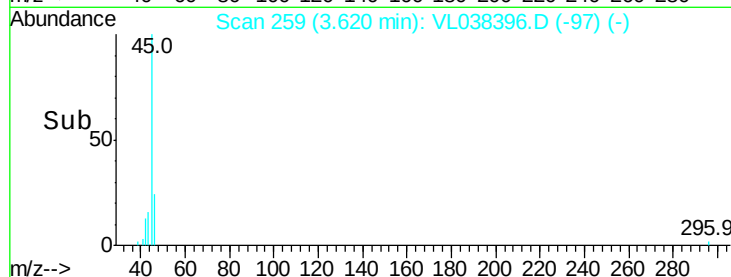
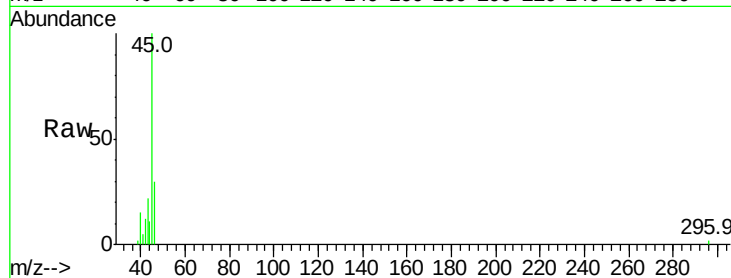
Acq: 22 Feb 2022 20:15 MP-6DL

Tgt Ion: 45 Resp: 7319

Ion Ratio Lower Upper

45 100

46 0.0 18.2 72.8#



#15

Acetone

Concen: 0.22 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.03 min

Lab File: VL038396.D

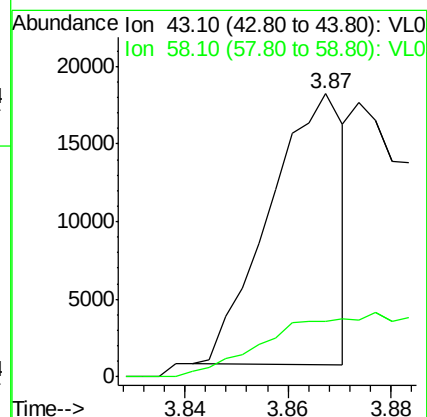
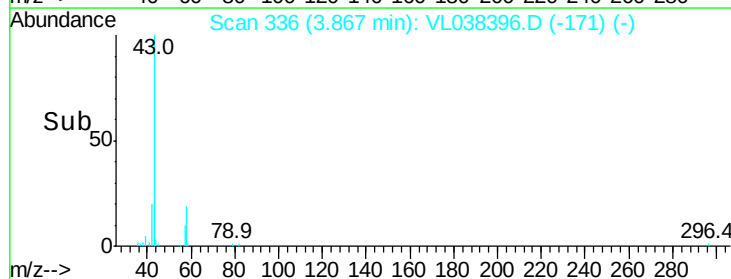
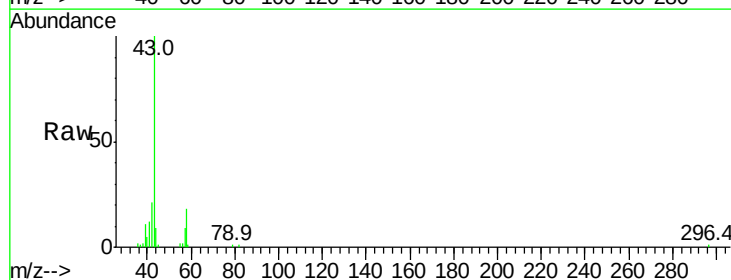
Acq: 22 Feb 2022 20:15

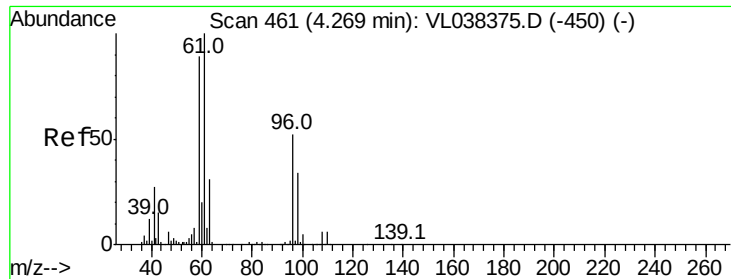
Tgt Ion: 43 Resp: 17476

Ion Ratio Lower Upper

43 100

58 0.0 21.7 32.5#





#17

tert-Butyl alcohol

Concen: 0.34 ppbv

RT: 4.32

Instrument: MSVOA_1

Delta R.T.

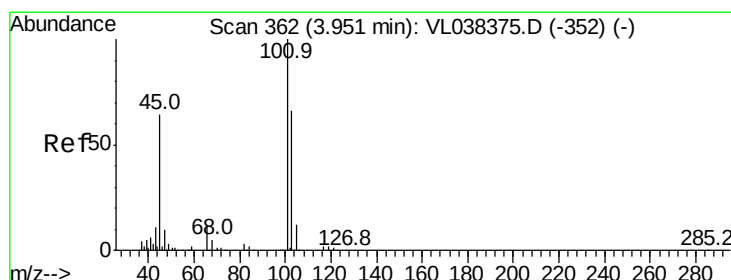
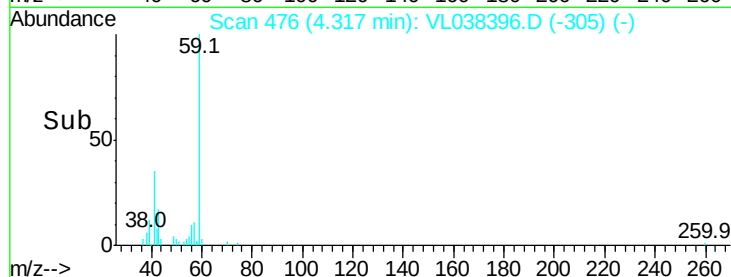
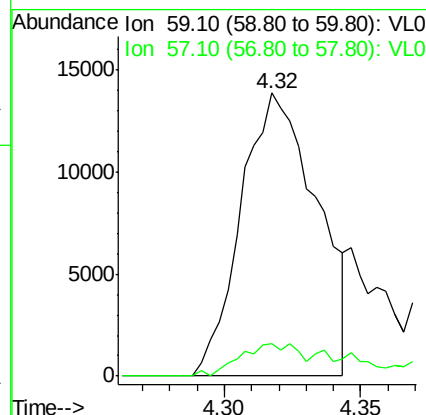
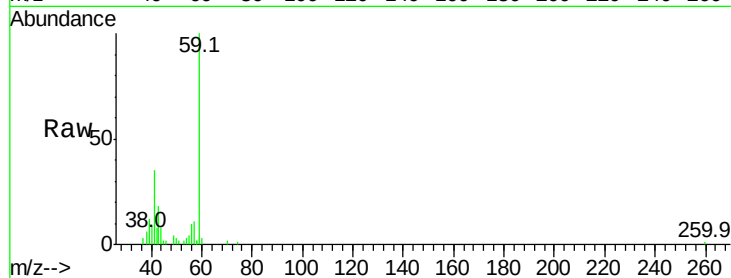
Lab File: ClientSampleId:

MP-6DL

Acq: 22 Feb 2022 20:15

Tgt Ion: 59 Resp: 26804

Ion	Ratio	Lower	Upper
59	100		
57	16.3	8.4	12.6#



#19

Isopropyl Alcohol

Concen: 0.52 ppbv

RT: 4.01 min Scan# 381

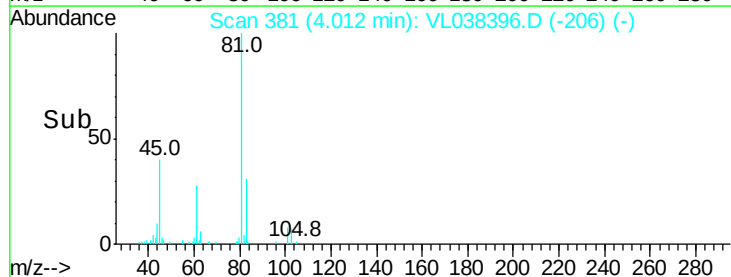
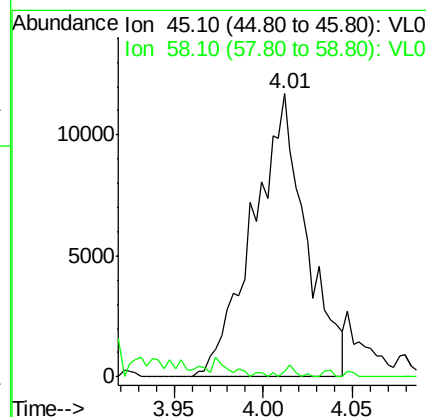
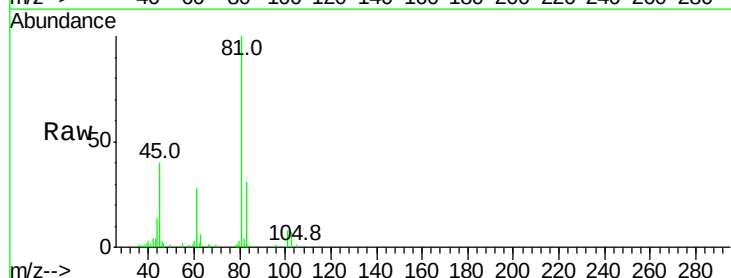
Delta R.T. 0.06 min

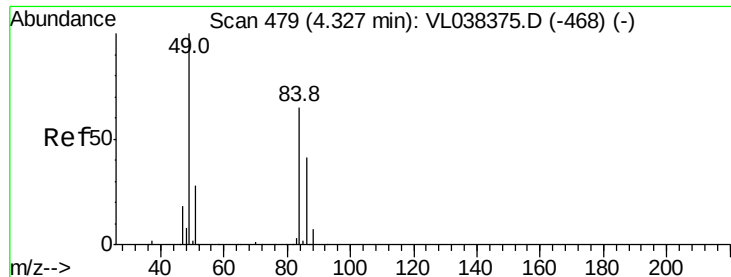
Lab File: VL038396.D

Acq: 22 Feb 2022 20:15

Tgt Ion: 45 Resp: 24172

Ion	Ratio	Lower	Upper
45	100		
58	4.6	1.8	2.8#

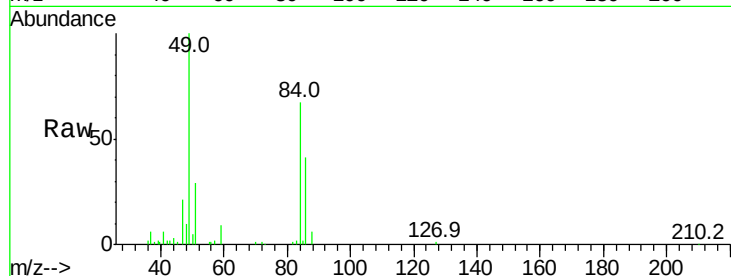




#20
Methylene Chloride
Concen: 1.34 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
MP-6DL
Acq: 22 Feb 2022 20:15

Tgt Ion: 84 Resp: 52943

Ion	Ratio	Lower	Upper
84	100		
49	147.8	122.4	183.6
51	41.9	33.3	49.9
86	61.7	50.7	76.1

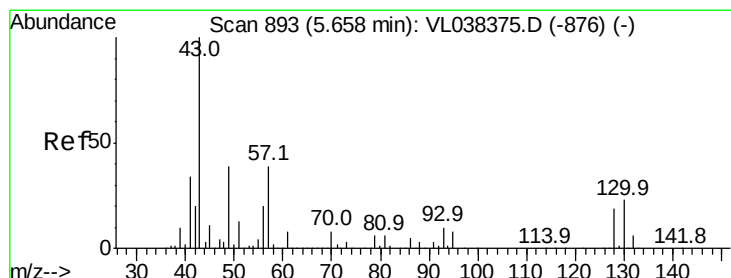
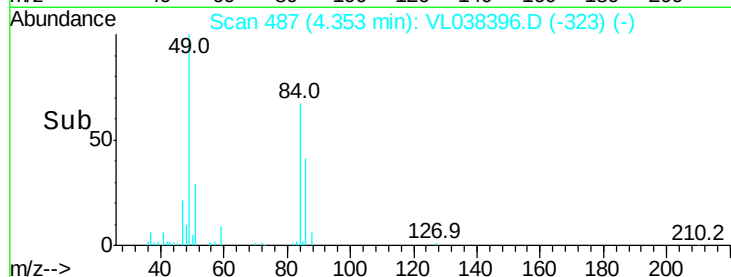
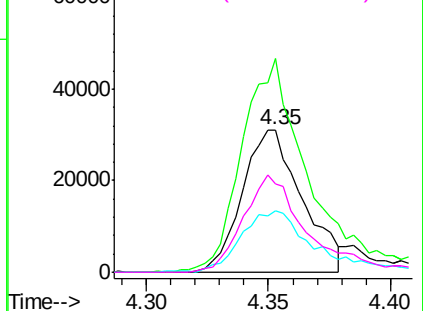


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

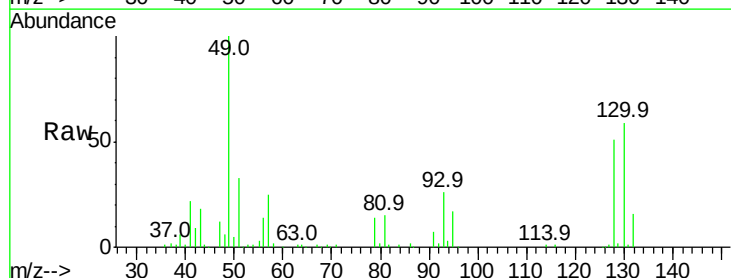
Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.22 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.04 min
Lab File: VL038396.D
Acq: 22 Feb 2022 20:15

Tgt Ion: 43 Resp: 47304

Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.8	11.6#
61	0.1	7.5	11.3#
70	1.0	5.4	8.0#

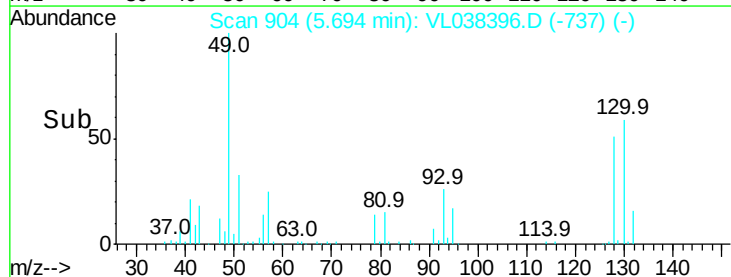
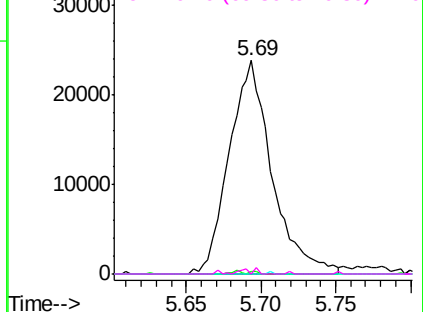


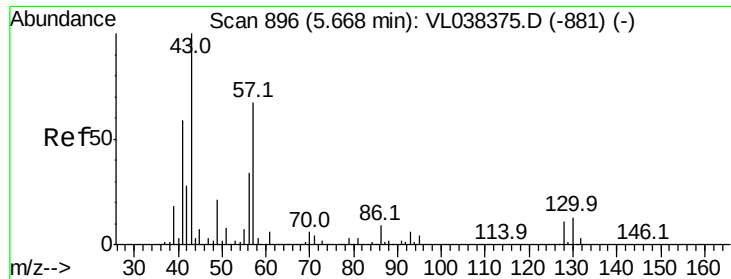
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 0.32 ppbv

RT: 5.69 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 22 Feb 2022 20:15

Tgt Ion: 57 Resp: 30740

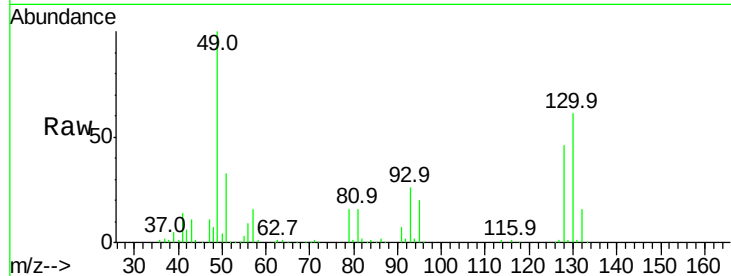
Ion Ratio Lower Upper

57 100

41 0.0 73.1 109.7#

43 0.0 181.0 271.4#

56 121.5 43.4 65.0#



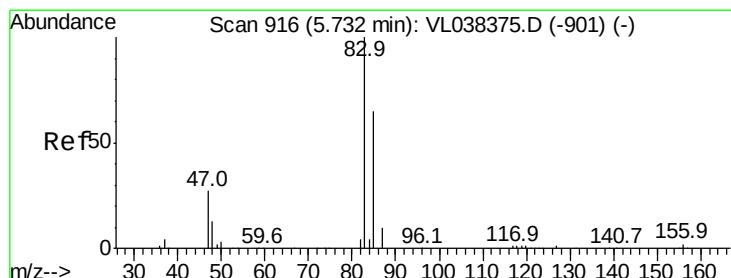
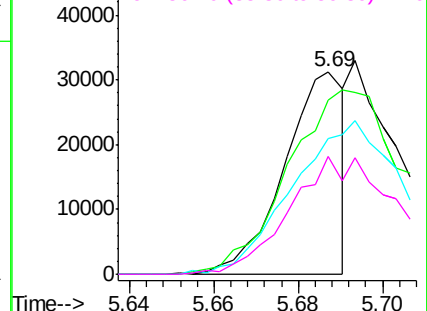
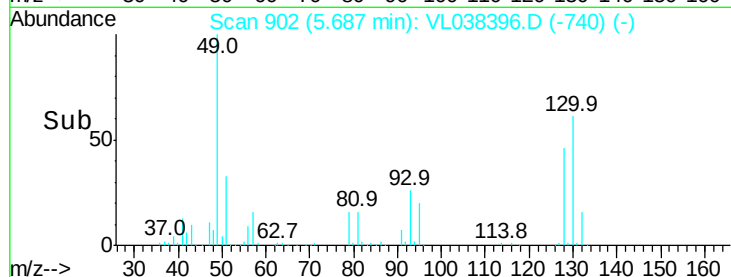
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29

Chloroform

Concen: 0.03 ppbv

RT: 5.75 min Scan# 923

Delta R.T. 0.02 min

Lab File: VL038396.D

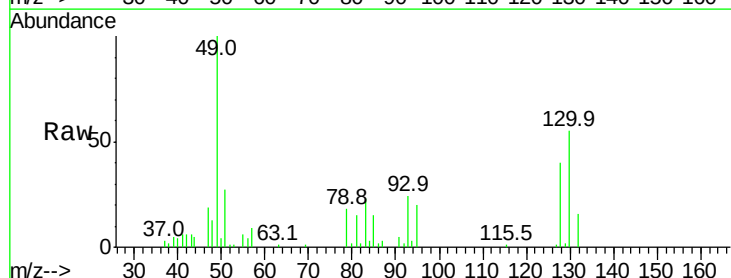
Acq: 22 Feb 2022 20:15

Tgt Ion: 83 Resp: 5031

Ion Ratio Lower Upper

83 100

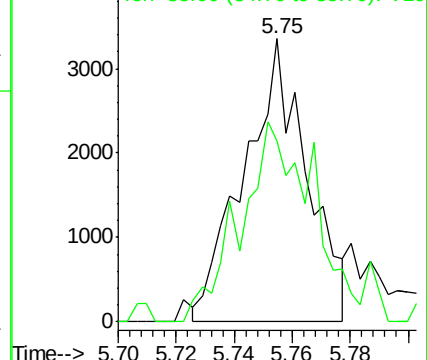
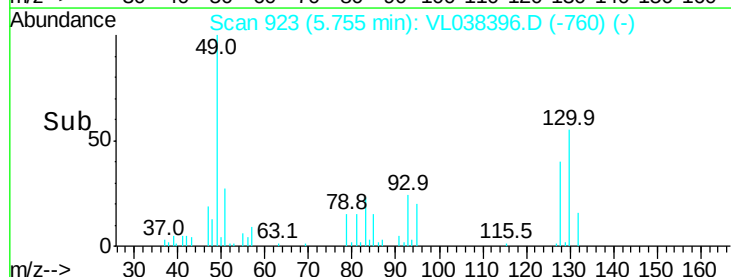
85 59.7 51.6 77.4

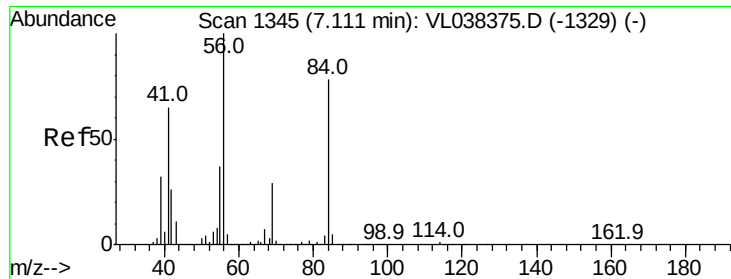


Abundance

Ion 83.00 (82.70 to 83.70): VL0

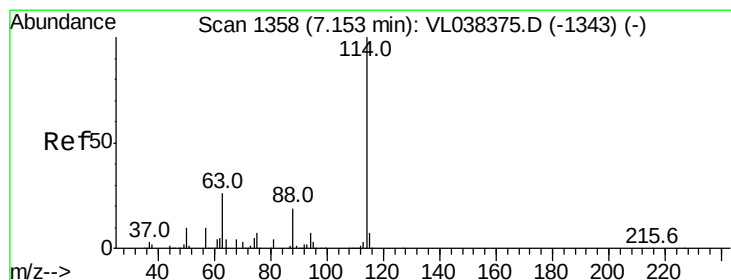
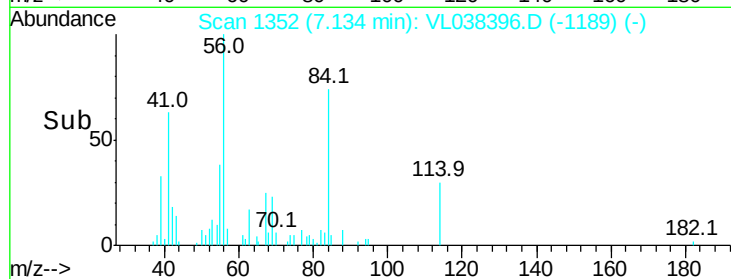
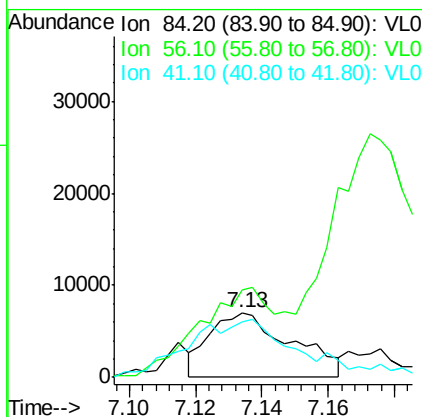
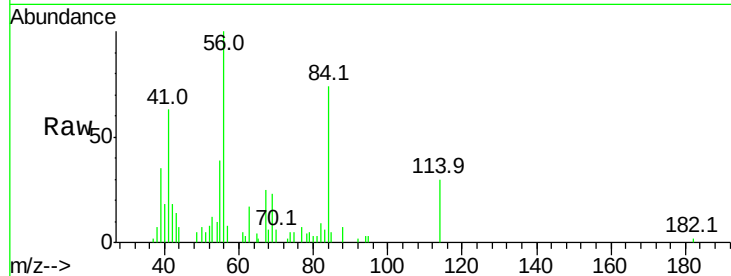
Ion 85.00 (84.70 to 85.70): VL0





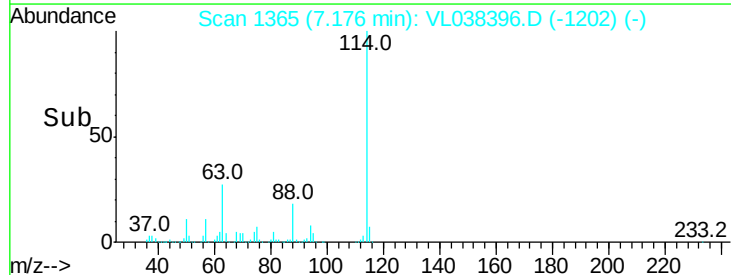
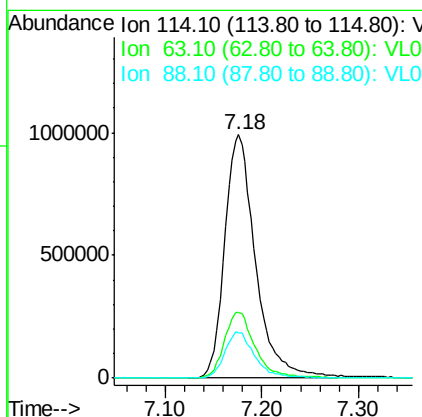
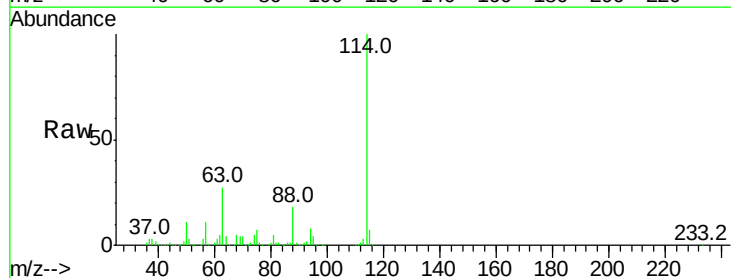
#30
Cyclohexane
Concen: 0.15 ppbv
RT: 7.13
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 22 Feb 2022 20:15

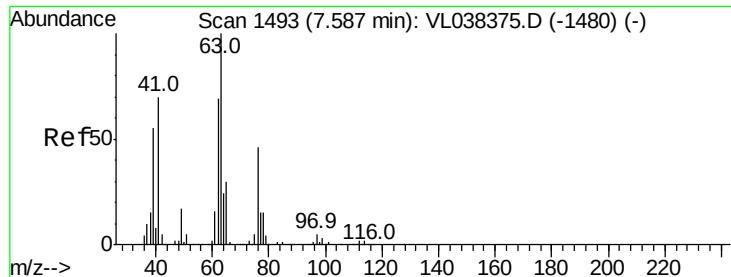
Tgt Ion: 84 Resp: 12059
Ion Ratio Lower Upper
84 100
56 0.0 116.2 174.4#
41 128.0 74.3 111.5#



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.02 min
Lab File: VL038396.D
Acq: 22 Feb 2022 20:15

Tgt Ion: 114 Resp: 2196336
Ion Ratio Lower Upper
114 100
63 27.5 22.2 33.2
88 18.9 15.2 22.8





#39

1,2-Dichloropropane

Concen: 7.52 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 20:15

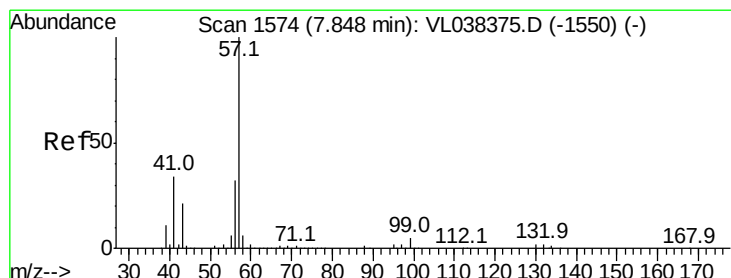
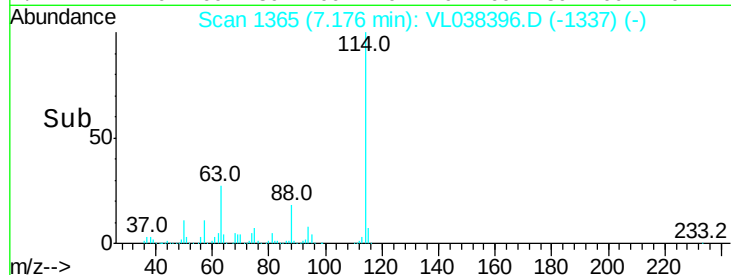
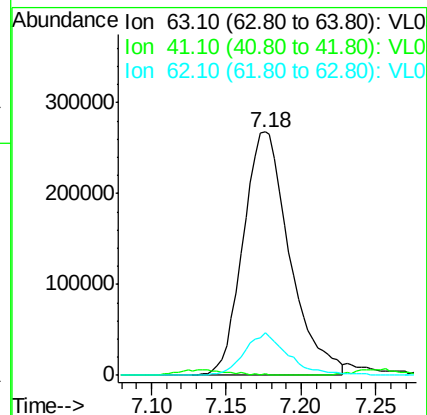
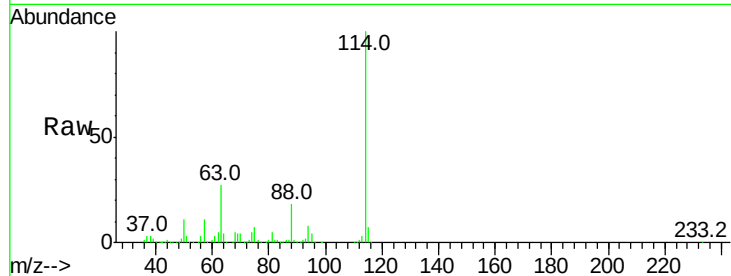
Tgt Ion: 63 Resp: 579069

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

62 17.6 55.5 83.3#



#44

2,2,4-Trimethylpentane

Concen: 0.24 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VL038396.D

Acq: 22 Feb 2022 20:15

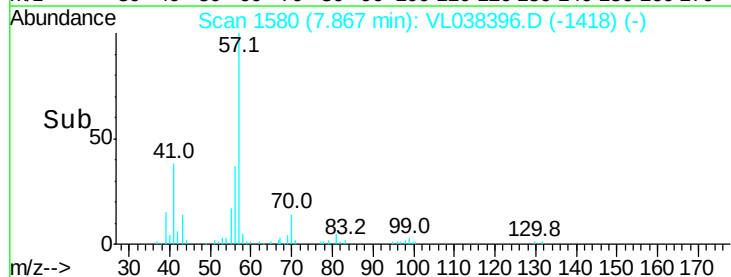
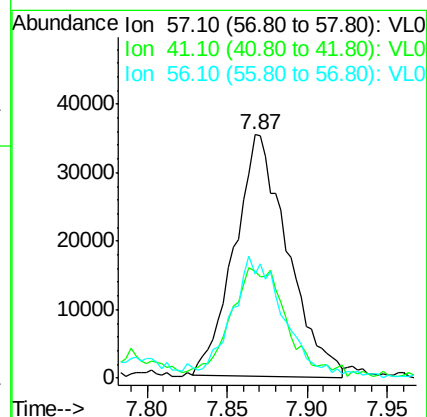
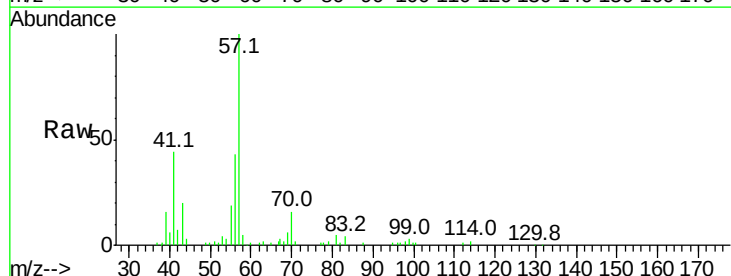
Tgt Ion: 57 Resp: 80155

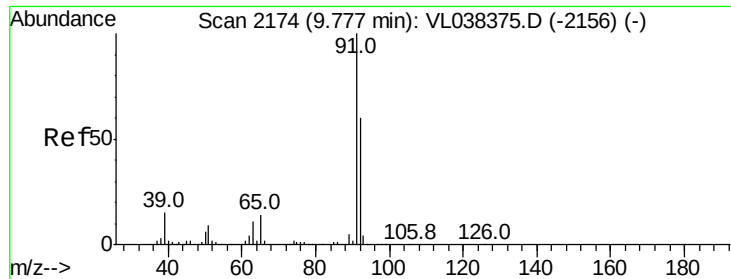
Ion Ratio Lower Upper

57 100

41 50.2 26.6 39.8#

56 52.2 25.0 37.6#





#53

Toluene

Concen: 0.16 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

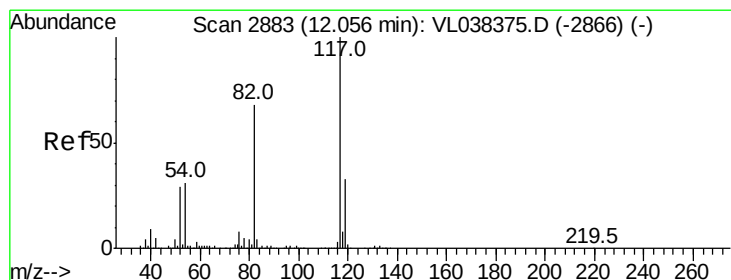
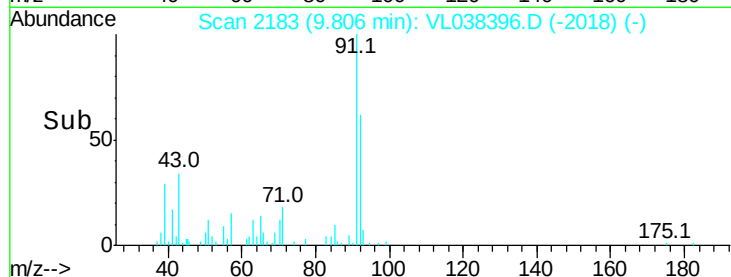
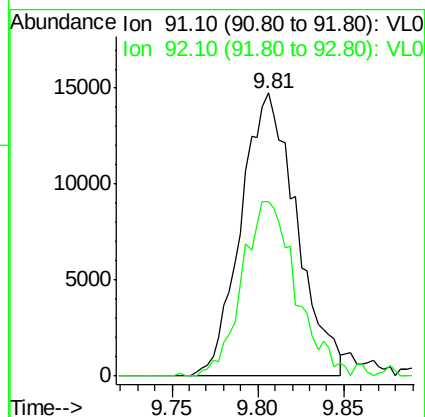
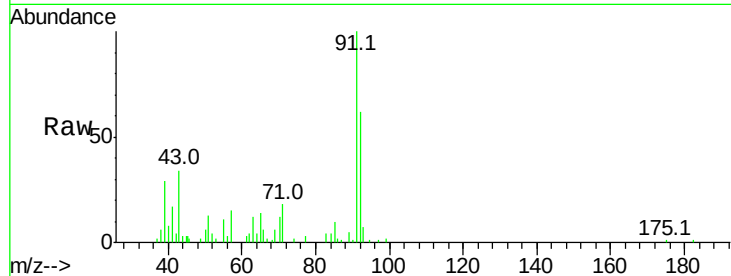
Acq: 22 Feb 2022 20:15 MP-6DL

Tgt Ion: 91 Resp: 33171

Ion Ratio Lower Upper

91 100

92 61.3 48.2 72.4



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. 0.03 min

Lab File: VL038396.D

Acq: 22 Feb 2022 20:15

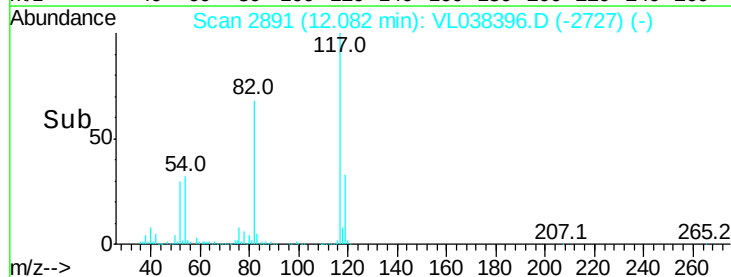
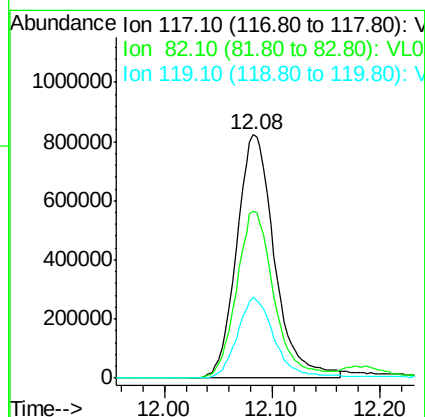
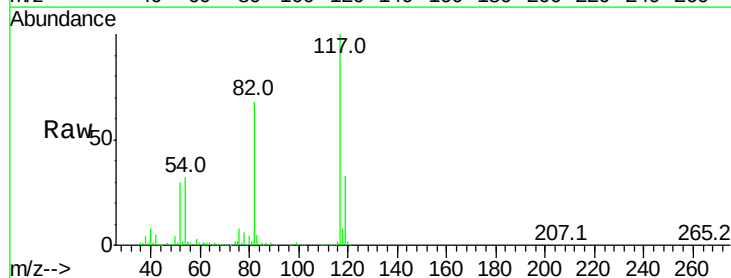
Tgt Ion: 117 Resp: 2015733

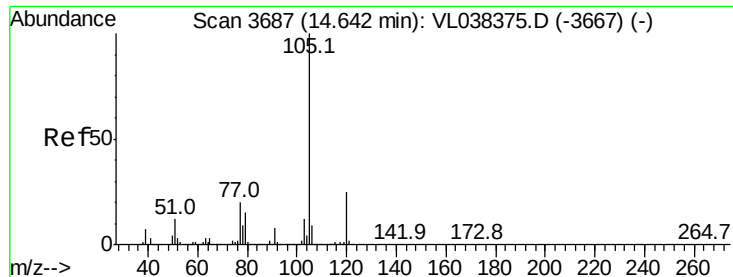
Ion Ratio Lower Upper

117 100

82 67.7 54.9 82.3

119 33.4 46.1 69.1#





#62

Isopropylbenzene

Concen: 0.05 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

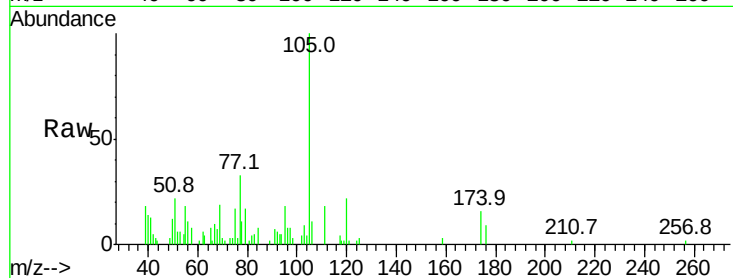
Acq: 22 Feb 2022 20:15

Tgt Ion: 105 Resp: 14406

Ion Ratio Lower Upper

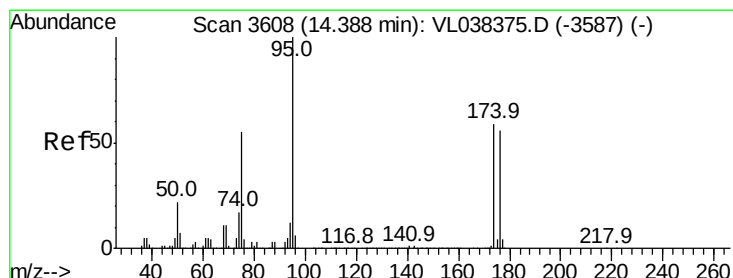
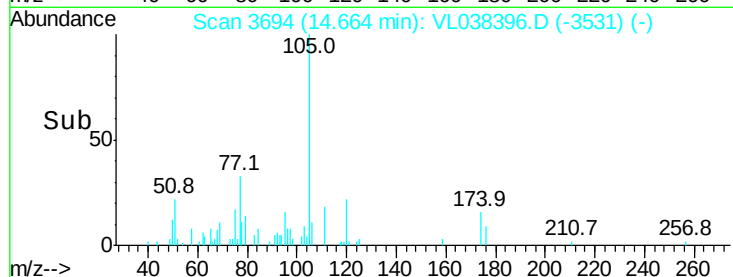
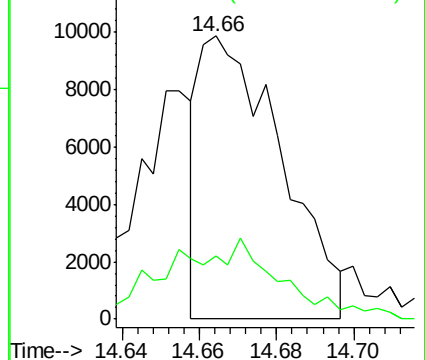
105 100

120 41.4 20.6 30.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.08 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.03 min

Lab File: VL038396.D

Acq: 22 Feb 2022 20:15

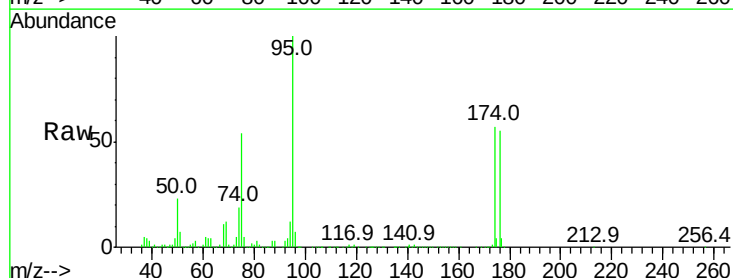
Tgt Ion: 95 Resp: 1680431

Ion Ratio Lower Upper

95 100

174 60.7 49.0 73.4

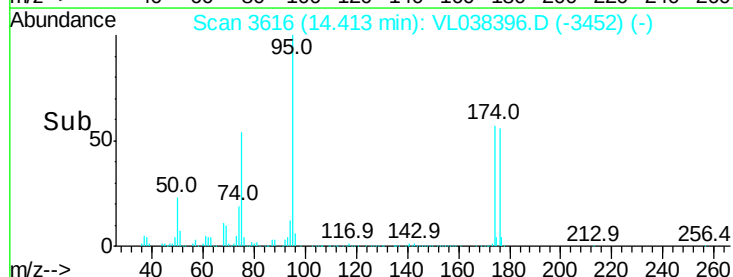
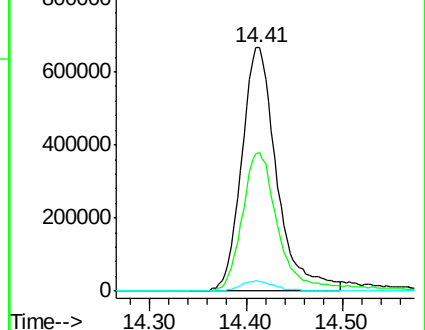
175 4.4 3.6 5.4

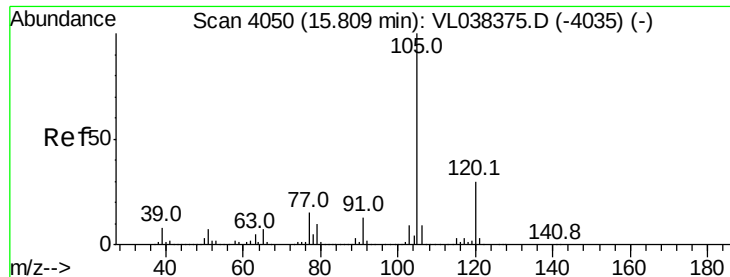


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

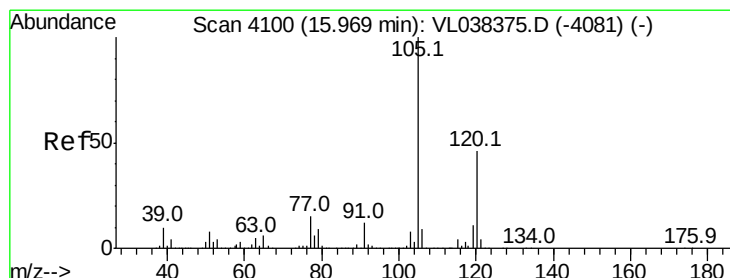
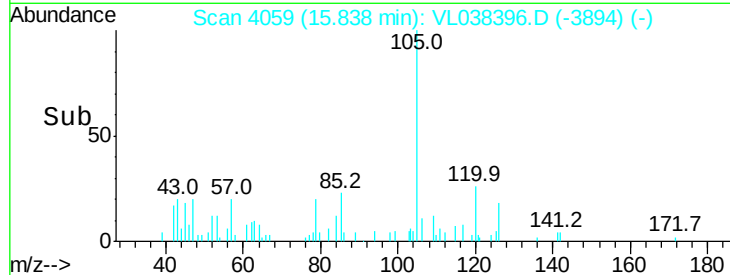
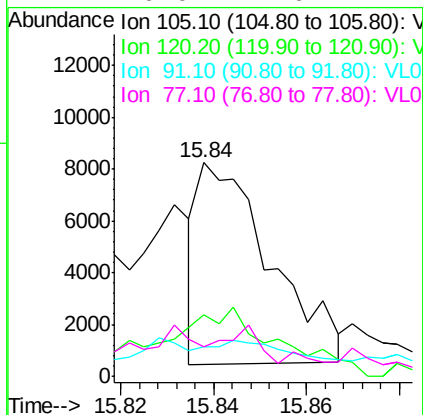
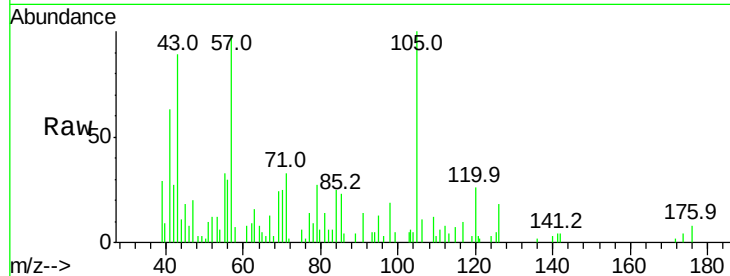
Ion 175.00 (174.70 to 175.70): V





#72
 4-Ethyltoluene
 Concen: 0.03 ppbv
 RT: 15.84 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-6DL
 Acq: 22 Feb 2022 20:15

Tgt Ion:	105	Resp:	8404
Ion Ratio	Lower	Upper	
105	100		
120	64.2	23.4	35.2#
91	0.0	10.4	15.6#
77	0.0	11.6	17.4#



#73
 1,3,5-Trimethylbenzene
 Concen: 0.12 ppbv
 RT: 16.00 min Scan# 4108
 Delta R.T. 0.03 min
 Lab File: VL038396.D
 Acq: 22 Feb 2022 20:15

Tgt Ion:	105	Resp:	27747
Ion Ratio	Lower	Upper	
105	100		
120	41.0	36.6	55.0

