

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038394.D
 Acq On : 22 Feb 2022 18:19
 Operator : SY/AP
 Sample : N1607-05DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-11DL

Quant Time: Feb 23 07:05:24 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	933674	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.17	114	2317078	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2091123	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1690804	9.77	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

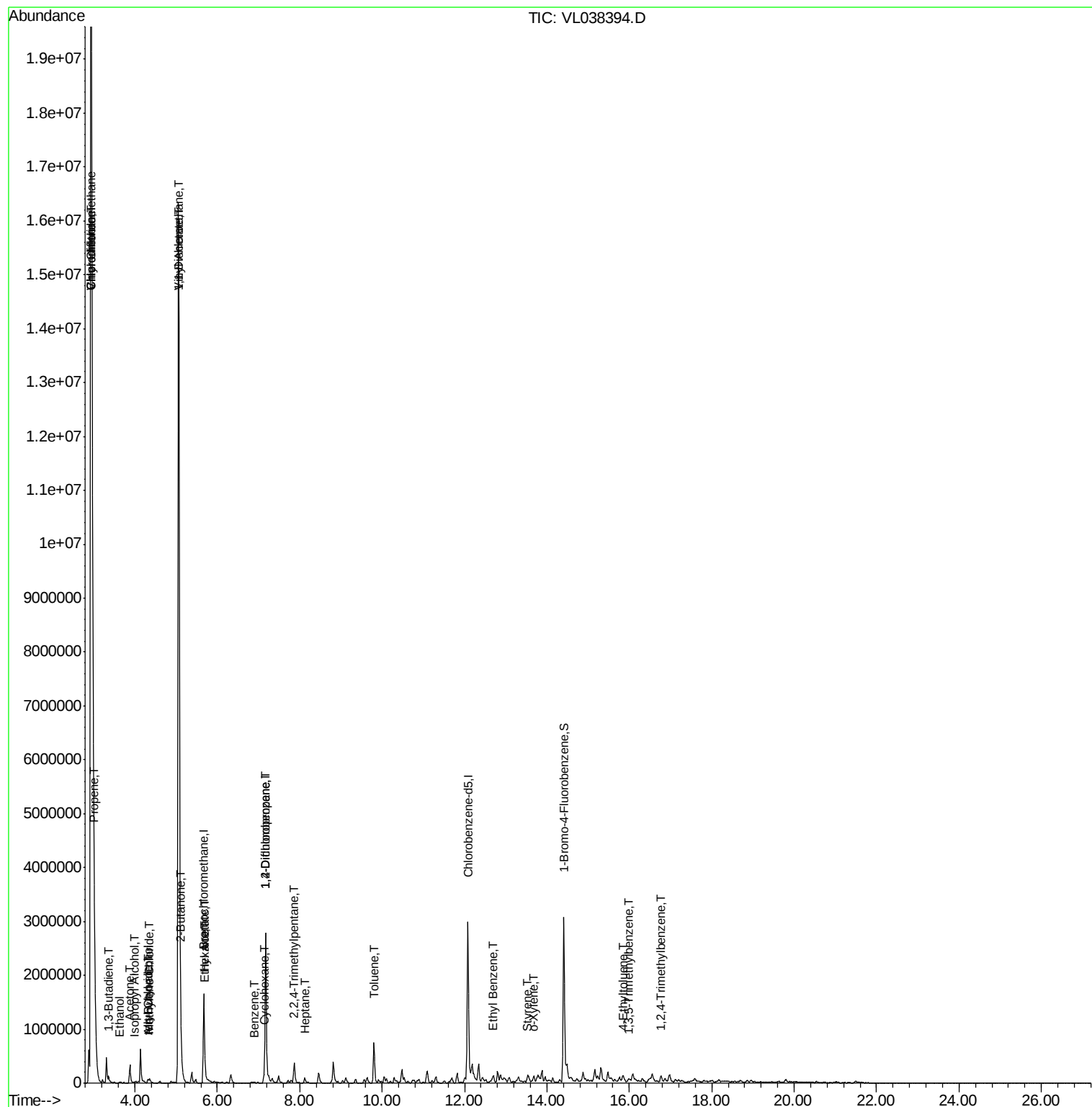
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.93	51	10087288	61.18	ppbv #	59
4) Chloromethane	2.93	50	3838848	67.01	ppbv #	47
5) Vinyl Chloride	2.93	62	284382	4.75	ppbv #	1
9) Propene	3.02	41	41561	0.76	ppbv	95
10) Heptane	8.12	43	44838	0.34	ppbv	92
13) Ethanol	3.63	45	20508	3.77	ppbv	91
15) Acetone	3.88	43	187382	2.36	ppbv #	70
16) 1,3-Butadiene	3.35	39	12337	0.23	ppbv #	12
17) tert-Butyl alcohol	4.32	59	30277	0.38	ppbv #	72
19) Isopropyl Alcohol	3.98	45	4016	0.09	ppbv #	32
20) Methylene Chloride	4.35	84	24471	0.62	ppbv	91
21) Allyl Chloride	4.32	41	2640	0.04	ppbv #	1
23) Vinyl Acetate	5.06	43	593886	5.64	ppbv #	1
24) 1,1-Dichloroethane	5.06	63	103971	1.10	ppbv #	89
25) Ethyl Acetate	5.69	43	48411	0.23	ppbv #	78
26) Hexane	5.69	57	71715	0.74	ppbv #	40
30) Cyclohexane	7.13	84	49824	0.63	ppbv #	80
34) 2-Butanone	5.11	43	94795	1.30	ppbv #	57
36) Benzene	6.89	78	9785	0.05	ppbv #	70
39) 1,2-Dichloropropane	7.17	63	602793	7.42	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	317967	0.91	ppbv #	81
53) Toluene	9.80	91	595211	2.69	ppbv	99
58) Ethyl Benzene	12.71	91	67858	0.24	ppbv	95
60) o-Xylene	13.69	91	88159	0.38	ppbv	98
61) Styrene	13.52	104	18914	0.18	ppbv #	76
72) 4-Ethyltoluene	15.84	105	13265	0.05	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.99	105	39247	0.17	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.76	105	9802	0.04	ppbv #	80

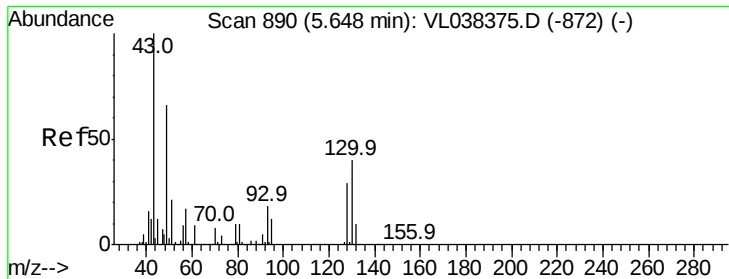
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-11DL

Acq: 22 Feb 2022 18:19

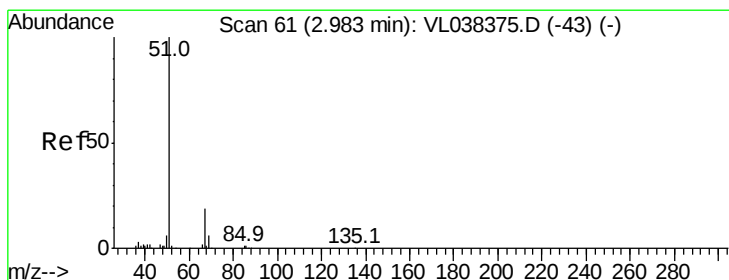
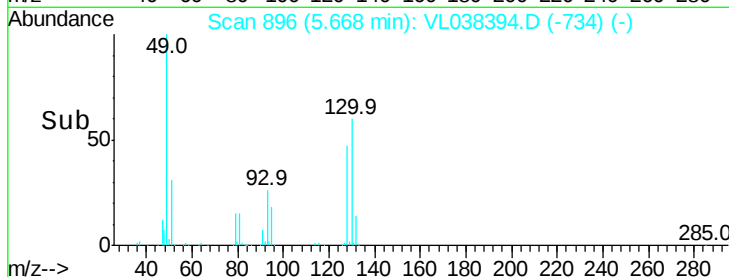
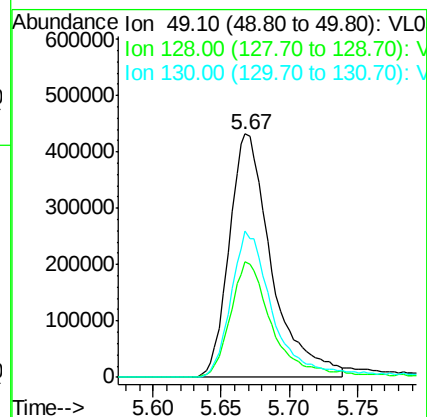
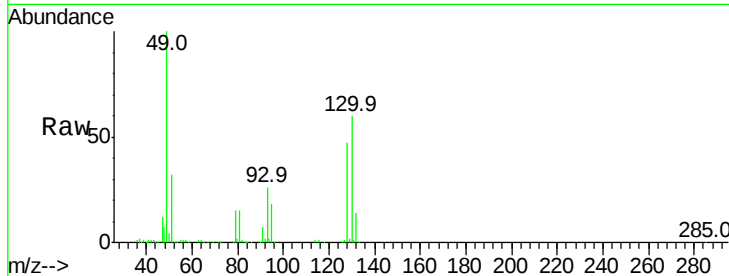
Tgt Ion: 49 Resp: 933674

Ion Ratio Lower Upper

49 100

128 49.2 24.3 72.9

130 61.7 30.1 90.5



#3

Chlorodifluoromethane

Concen: 61.18 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.05 min

Lab File: VL038394.D

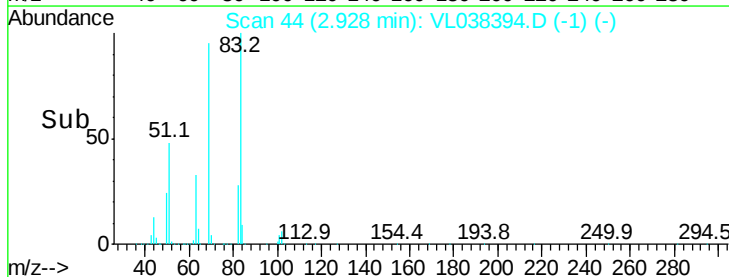
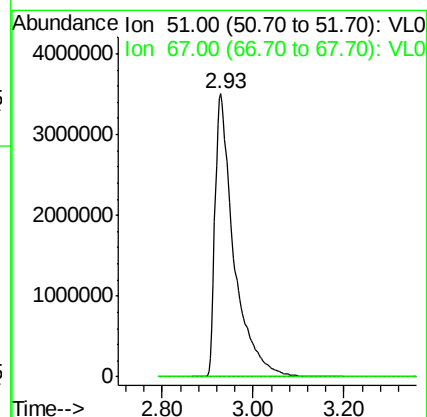
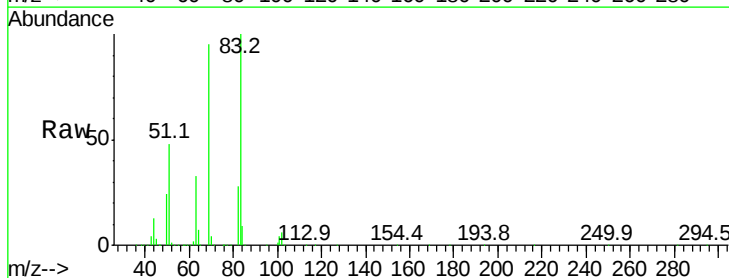
Acq: 22 Feb 2022 18:19

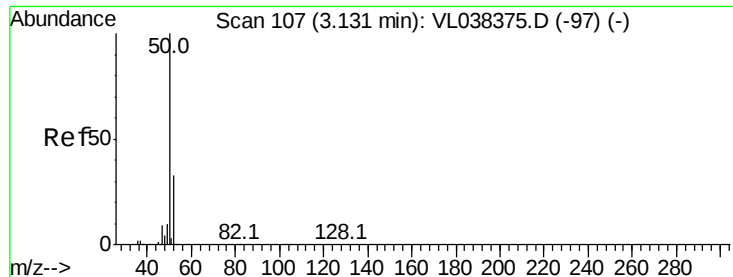
Tgt Ion: 51 Resp: 10087288

Ion Ratio Lower Upper

51 100

67 0.0 14.7 22.1#





#4

Chloromethane

Concen: 67.01 ppbv

RT: 2.93

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

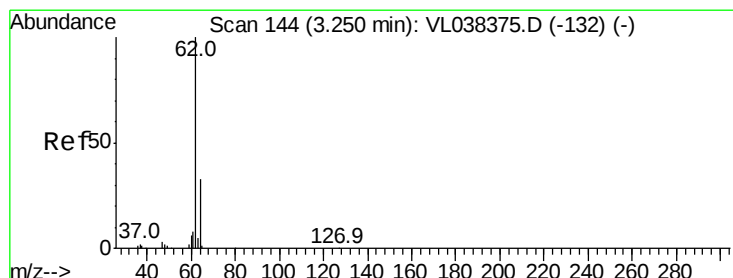
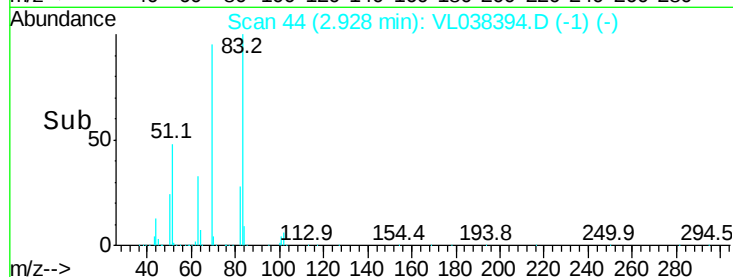
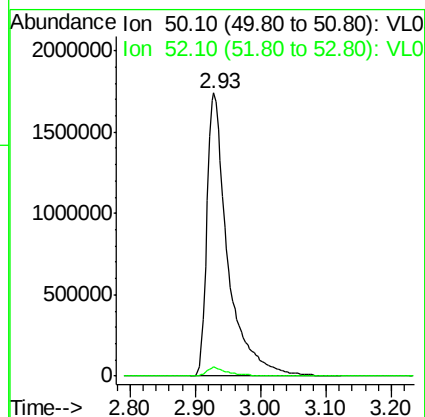
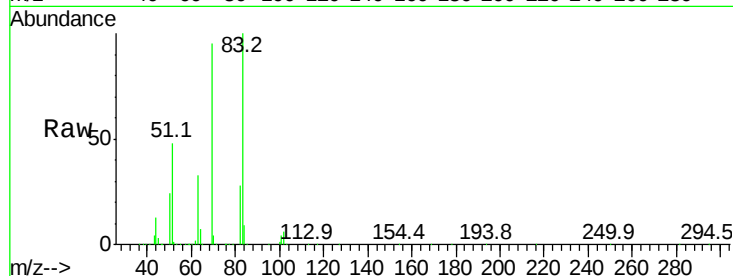
Acq: 22 Feb 2022 18:19

Tgt Ion: 50 Resp: 3838848

Ion Ratio Lower Upper

50 100

52 3.1 26.5 39.7#



#5

Vinyl Chloride

Concen: 4.75 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.32 min

Lab File: VL038394.D

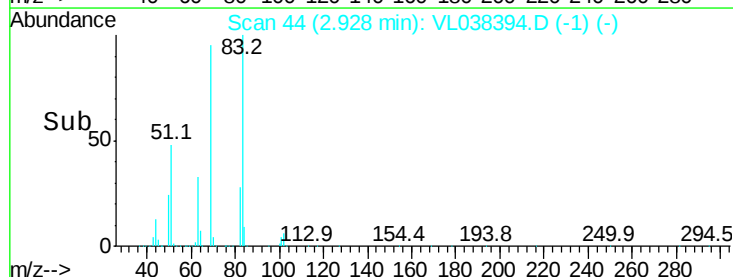
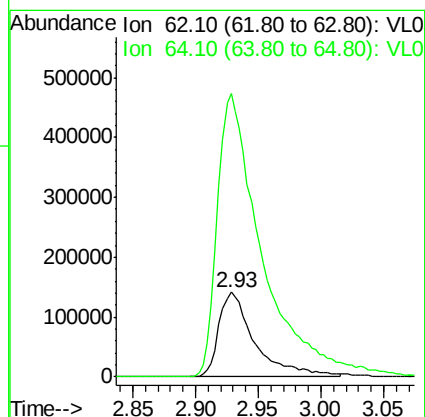
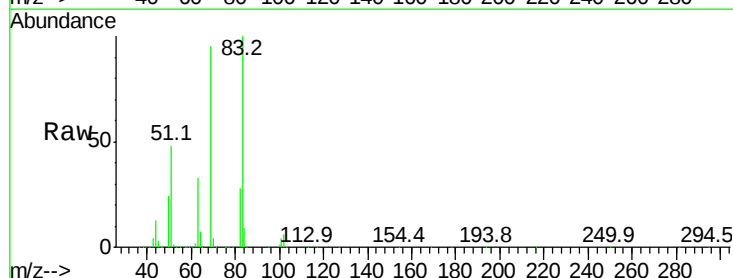
Acq: 22 Feb 2022 18:19

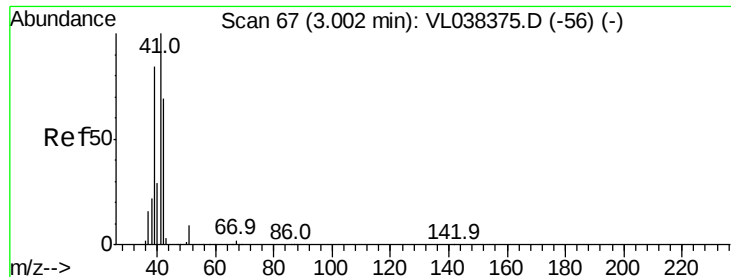
Tgt Ion: 62 Resp: 284382

Ion Ratio Lower Upper

62 100

64 334.3 26.2 39.2#





#9

Propene

Concen: 0.76 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

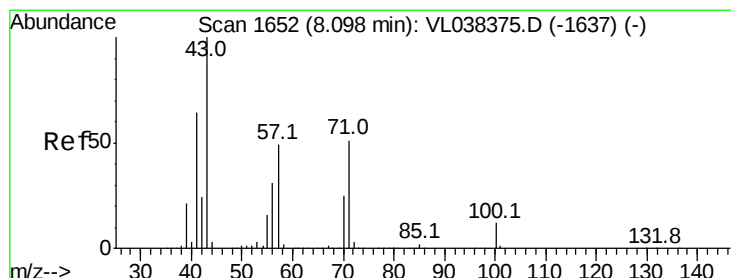
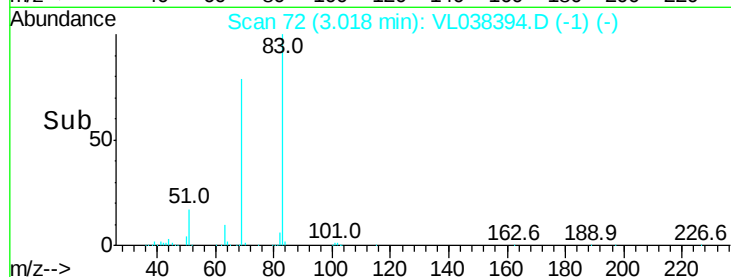
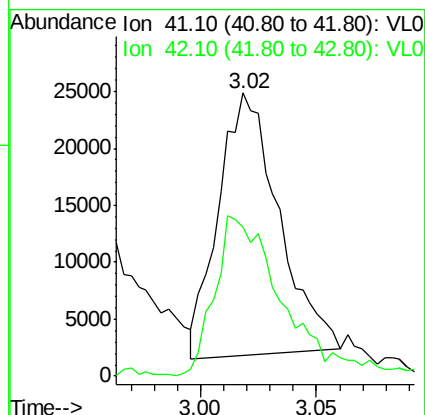
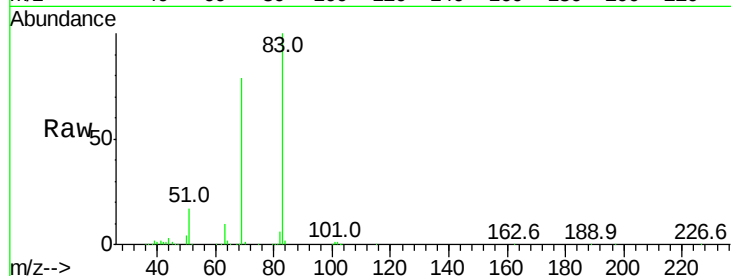
Acq: 22 Feb 2022 18:19 MP-11DL

Tgt Ion: 41 Resp: 41561

Ion Ratio Lower Upper

41 100

42 72.3 54.6 82.0



#10

Heptane

Concen: 0.34 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.02 min

Lab File: VL038394.D

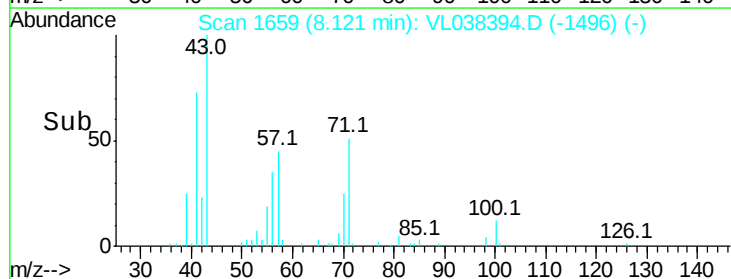
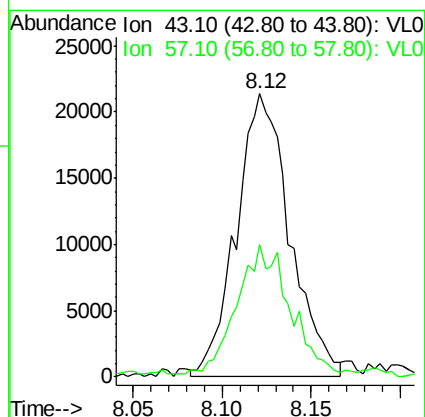
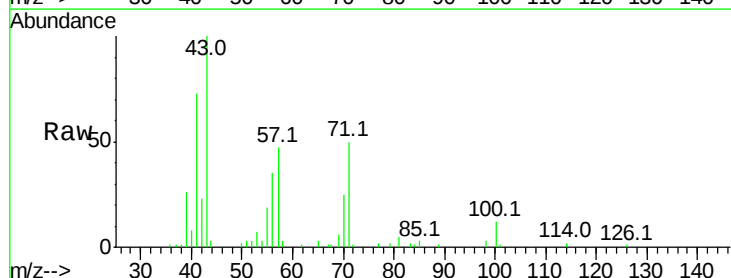
Acq: 22 Feb 2022 18:19

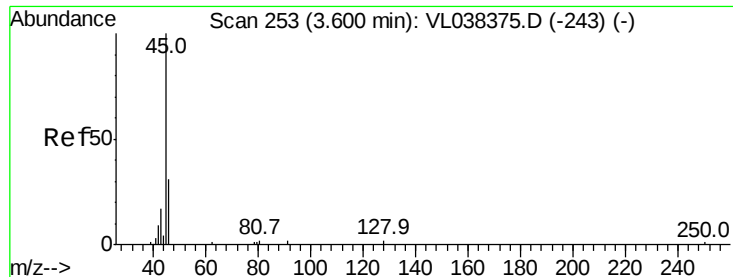
Tgt Ion: 43 Resp: 44838

Ion Ratio Lower Upper

43 100

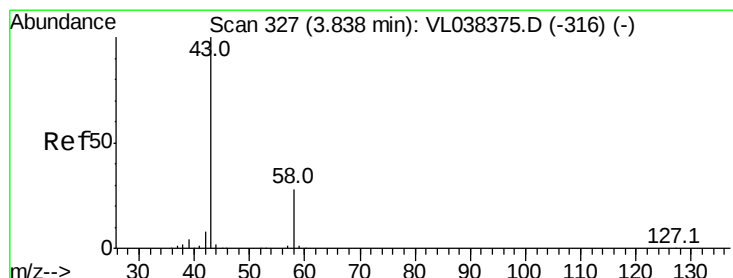
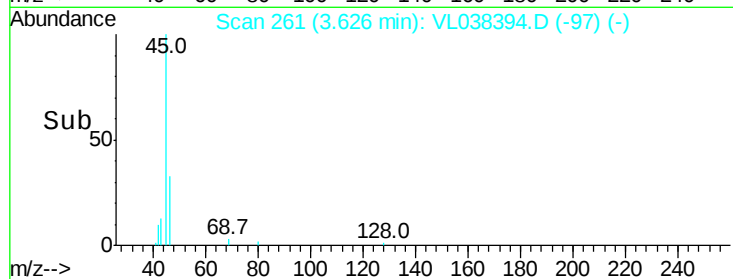
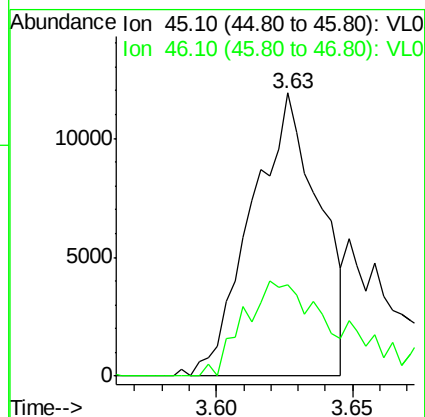
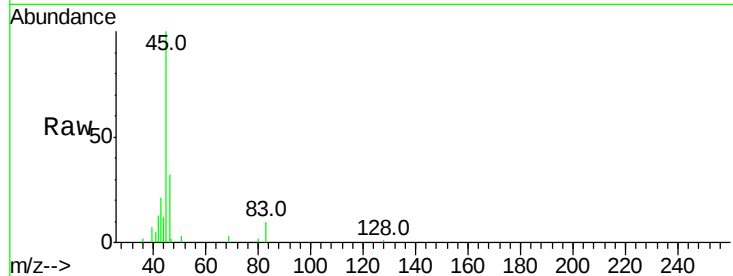
57 44.6 39.8 59.8





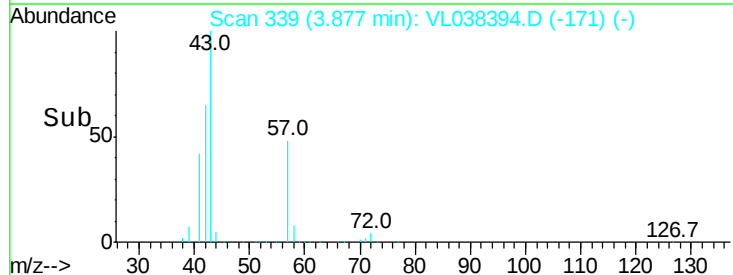
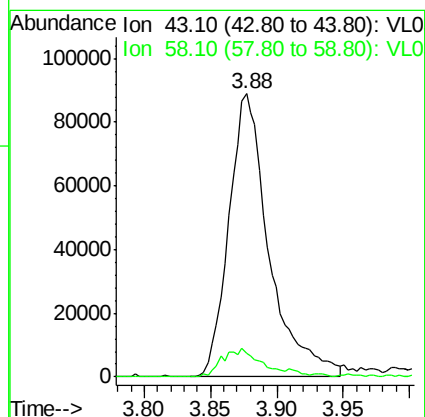
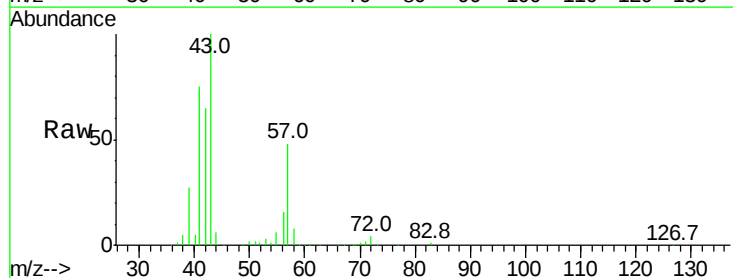
#13
 Ethanol
 Concen: 3.77 ppbv
 RT: 3.63
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 18:19

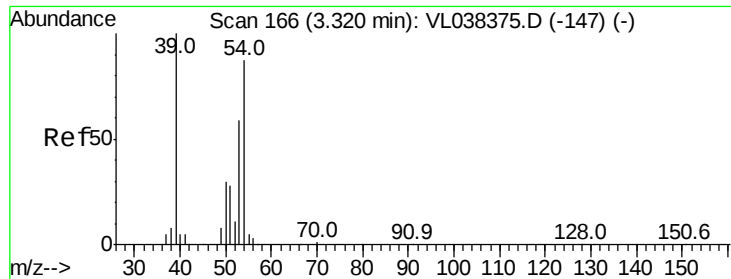
Tgt Ion: 45 Resp: 20508
 Ion Ratio Lower Upper
 45 100
 46 51.7 18.2 72.8



#15
 Acetone
 Concen: 2.36 ppbv
 RT: 3.88 min Scan# 339
 Delta R.T. 0.04 min
 Lab File: VL038394.D
 Acq: 22 Feb 2022 18:19

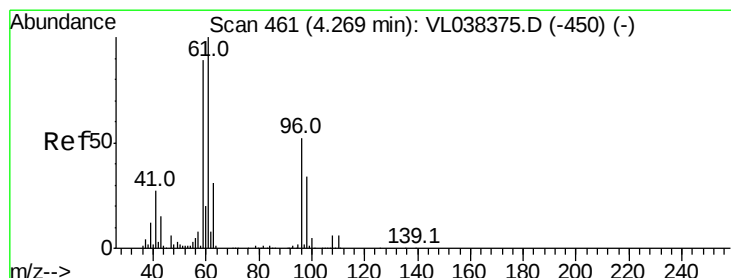
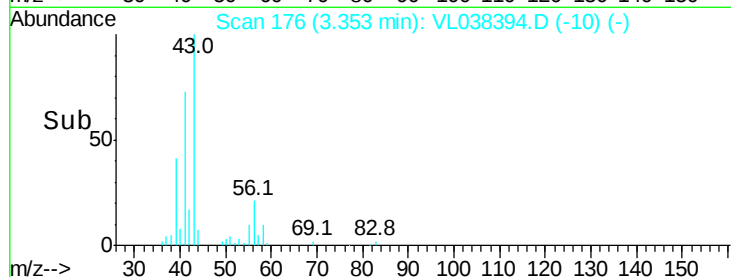
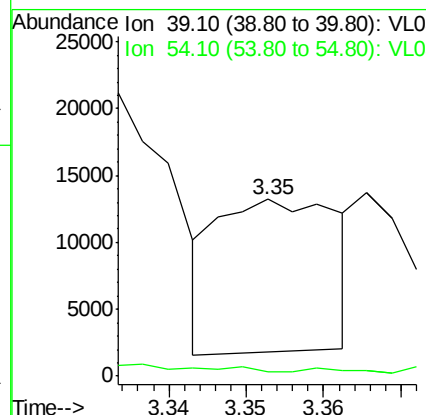
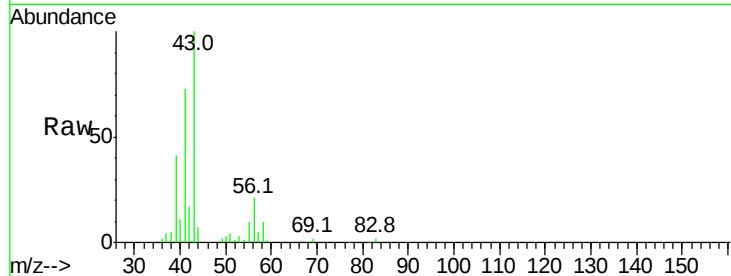
Tgt Ion: 43 Resp: 187382
 Ion Ratio Lower Upper
 43 100
 58 11.3 21.7 32.5#





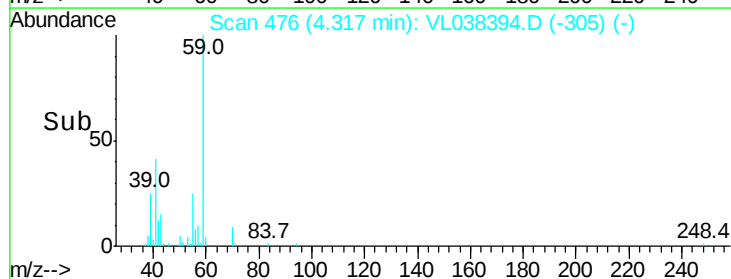
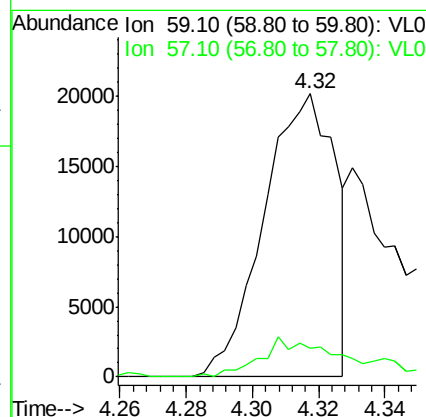
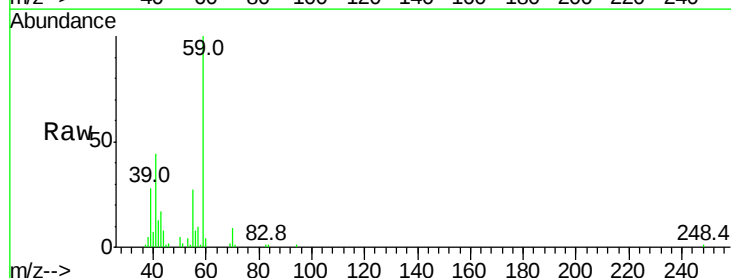
#16
 1,3-Butadiene
 Concen: 0.23 ppbv
 RT: 3.35
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 18:19

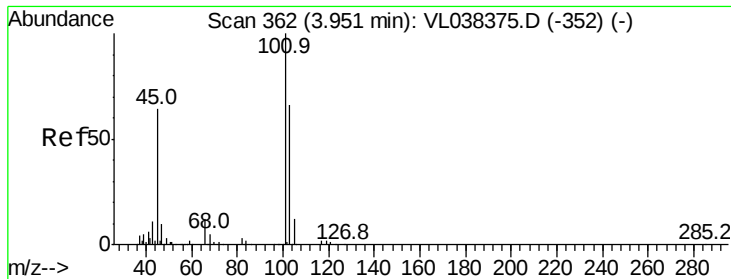
Tgt Ion: 39 Resp: 12337
 Ion Ratio Lower Upper
 39 100
 54 0.0 60.3 90.5#



#17
 tert-Butyl alcohol
 Concen: 0.38 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.05 min
 Lab File: VL038394.D
 Acq: 22 Feb 2022 18:19

Tgt Ion: 59 Resp: 30277
 Ion Ratio Lower Upper
 59 100
 57 20.9 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.09 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

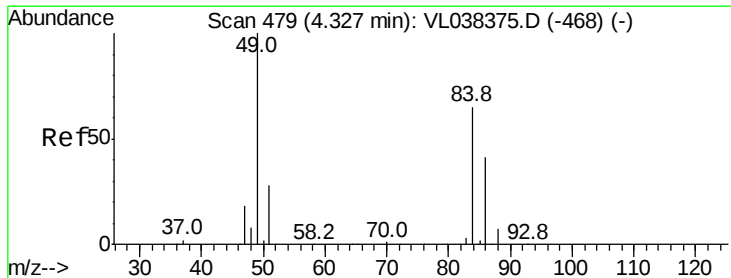
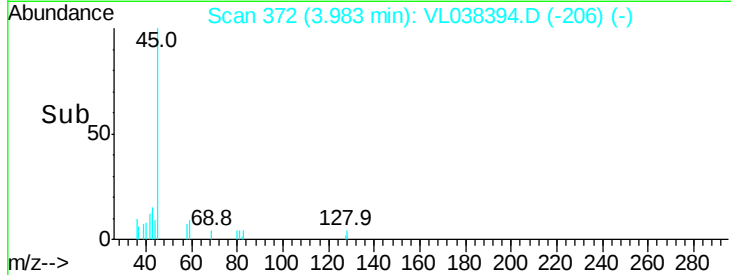
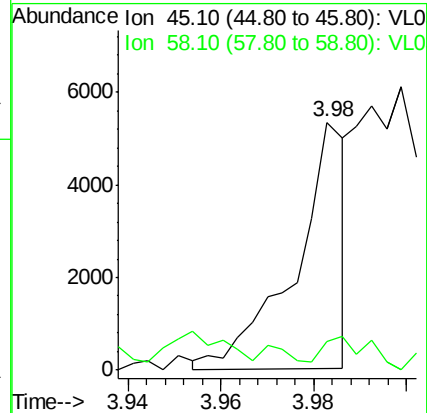
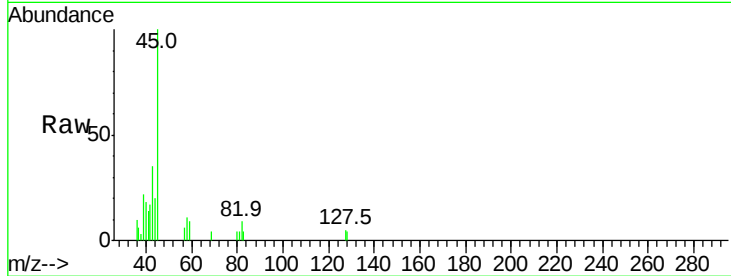
Acq: 22 Feb 2022 18:19 MP-11DL

Tgt Ion: 45 Resp: 4016

Ion Ratio Lower Upper

45 100

58 25.5 1.8 2.8#



#20

Methylene Chloride

Concen: 0.62 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL038394.D

Acq: 22 Feb 2022 18:19

Tgt Ion: 84 Resp: 24471

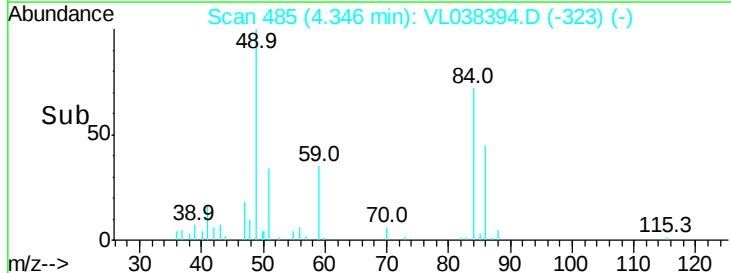
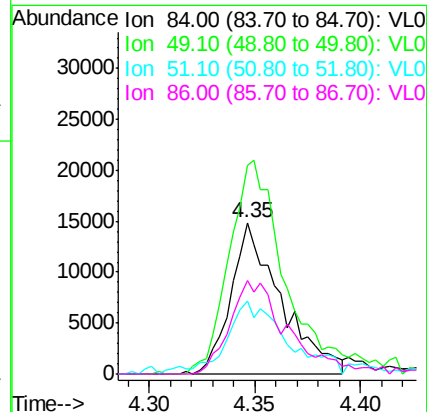
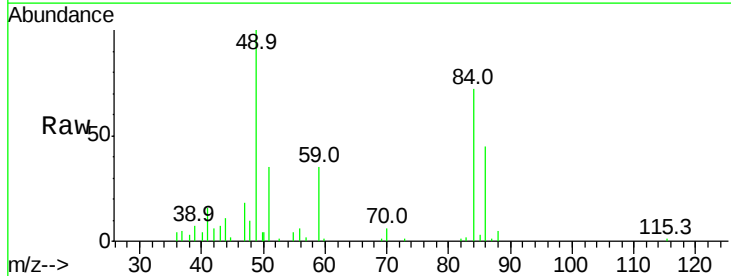
Ion Ratio Lower Upper

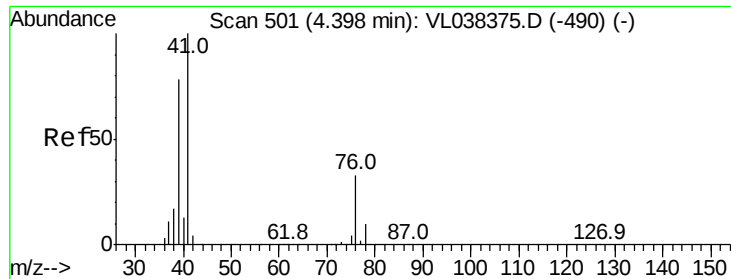
84 100

49 139.4 122.4 183.6

51 48.6 33.3 49.9

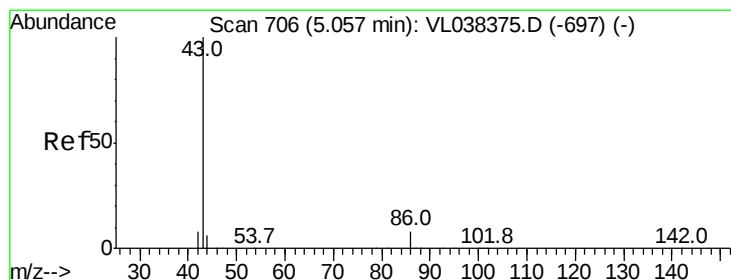
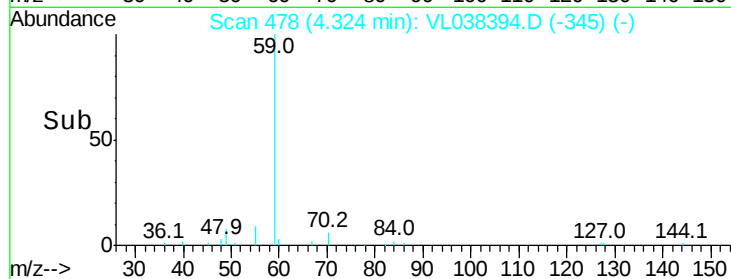
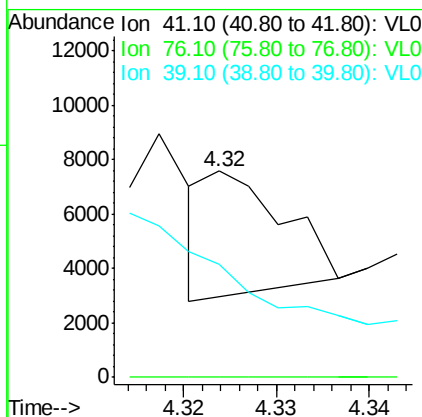
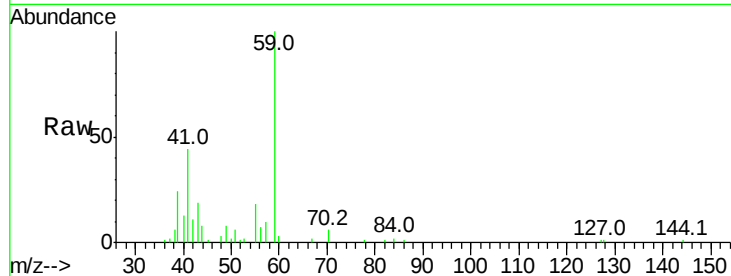
86 61.6 50.7 76.1





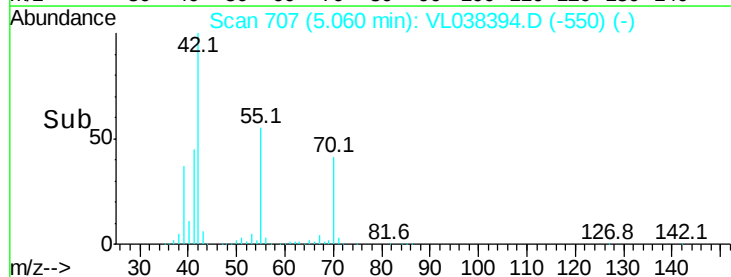
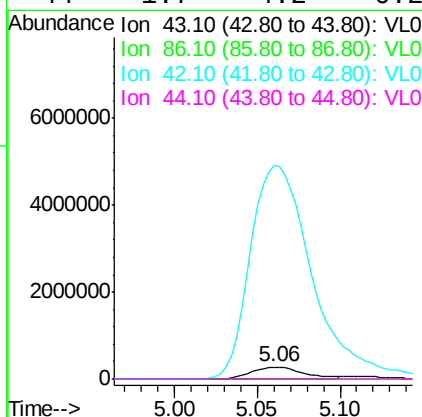
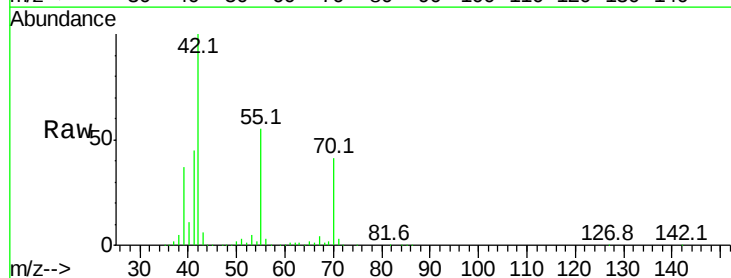
#21
 Allyl Chloride
 Concen: 0.04 ppbv
 RT: 4.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-11DL
 Acq: 22 Feb 2022 18:19

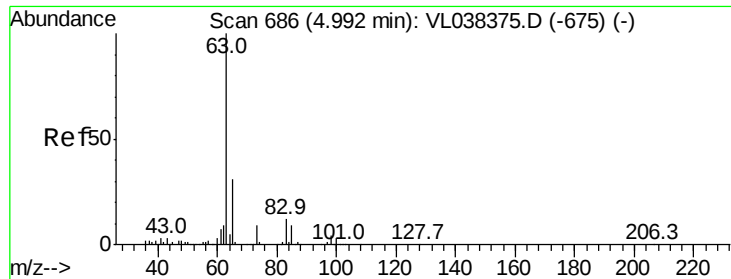
Tgt Ion: 41 Resp: 2640
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.4 38.0#
 39 412.8 63.0 94.6#



#23
 Vinyl Acetate
 Concen: 5.64 ppbv
 RT: 5.06 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VL038394.D
 Acq: 22 Feb 2022 18:19

Tgt Ion: 43 Resp: 593886
 Ion Ratio Lower Upper
 43 100
 86 0.2 5.8 8.6#
 42 1774.2 7.4 11.0#
 44 1.7 4.2 6.2#





#24

1,1-Dichloroethane

Concen: 1.10 ppbv

RT: 5.06 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 22 Feb 2022 18:19

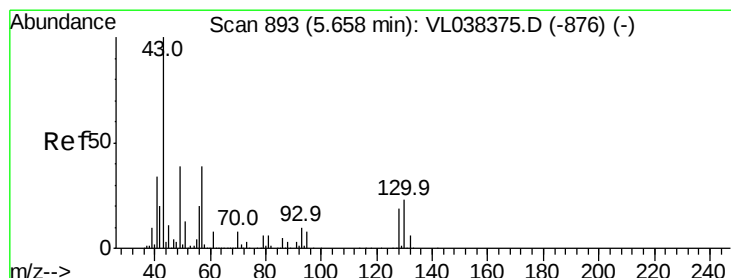
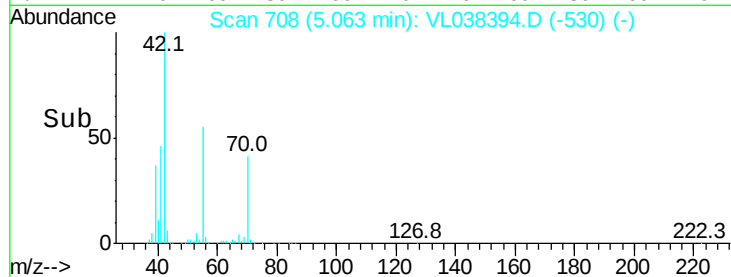
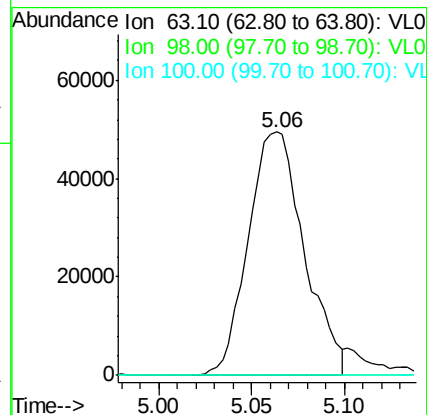
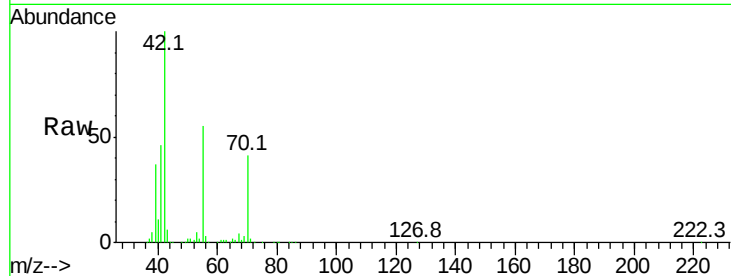
Tgt Ion: 63 Resp: 103971

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.5#

100 0.0 1.4 4.2#



#25

Ethyl Acetate

Concen: 0.23 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.04 min

Lab File: VL038394.D

Acq: 22 Feb 2022 18:19

Tgt Ion: 43 Resp: 48411

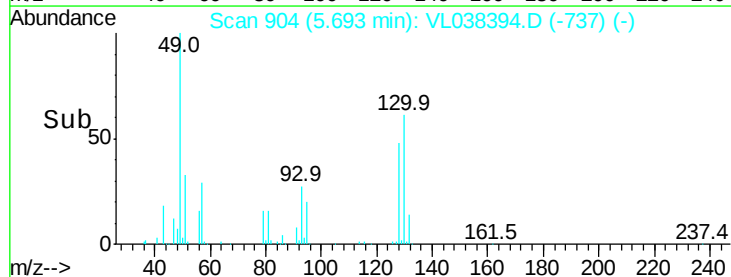
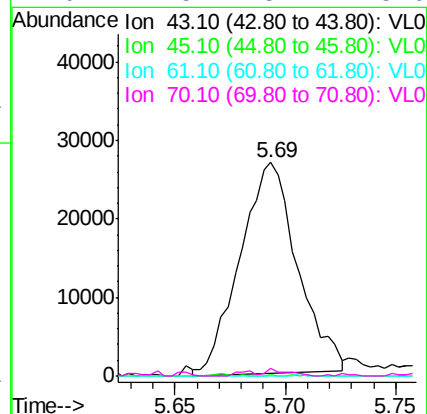
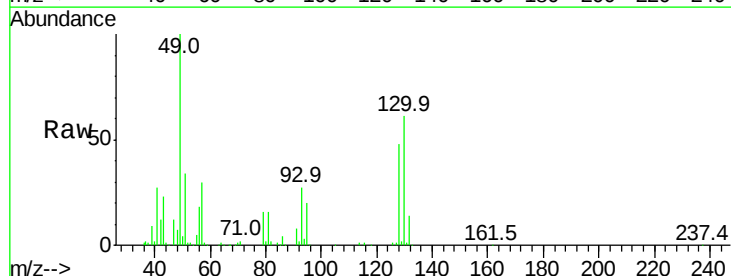
Ion Ratio Lower Upper

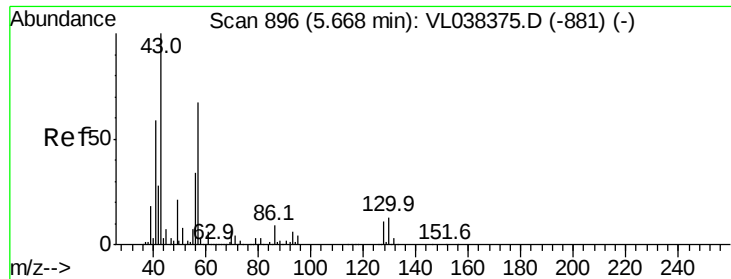
43 100

45 0.3 7.8 11.6#

61 0.0 7.5 11.3#

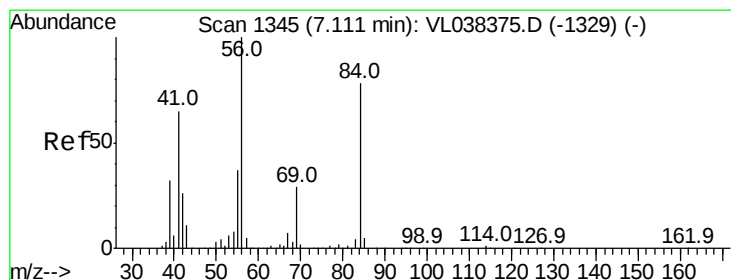
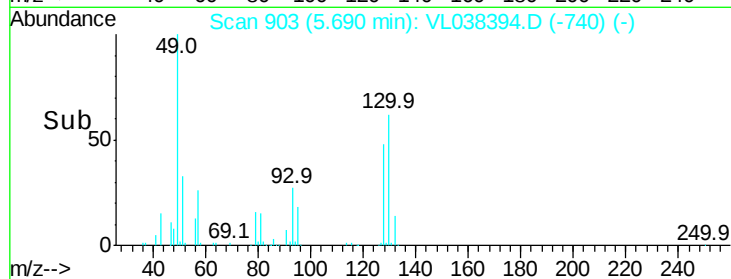
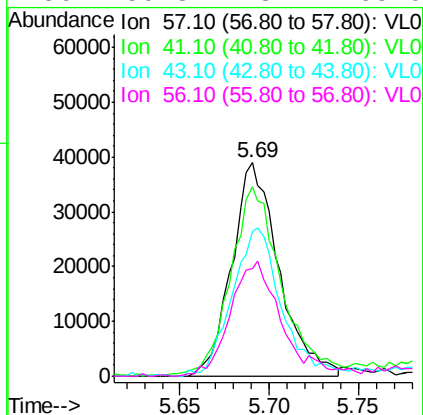
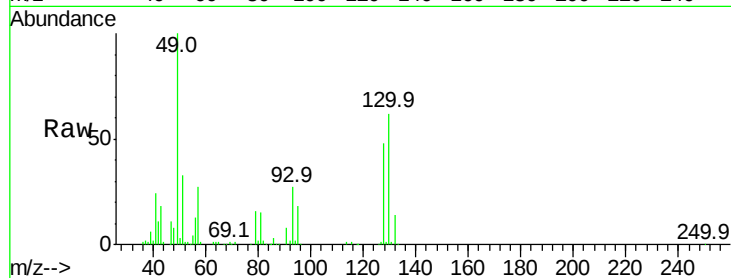
70 2.5 5.4 8.0#





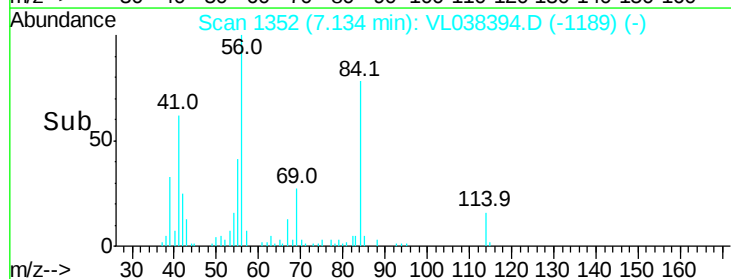
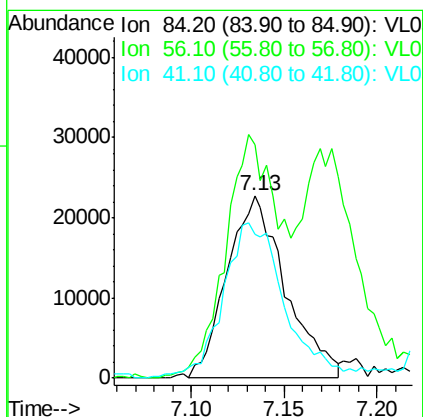
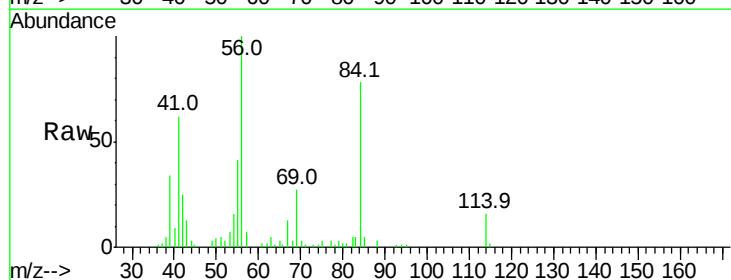
#26
Hexane
Concen: 0.74 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 18:19

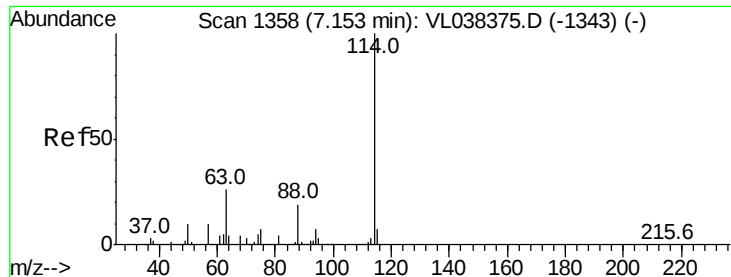
Tgt Ion: 57 Resp: 71715
Ion Ratio Lower Upper
57 100
41 100.7 73.1 109.7
43 73.2 181.0 271.4#
56 59.8 43.4 65.0



#30
Cyclohexane
Concen: 0.63 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.02 min
Lab File: VL038394.D
Acq: 22 Feb 2022 18:19

Tgt Ion: 84 Resp: 49824
Ion Ratio Lower Upper
84 100
56 106.3 116.2 174.4#
41 90.0 74.3 111.5

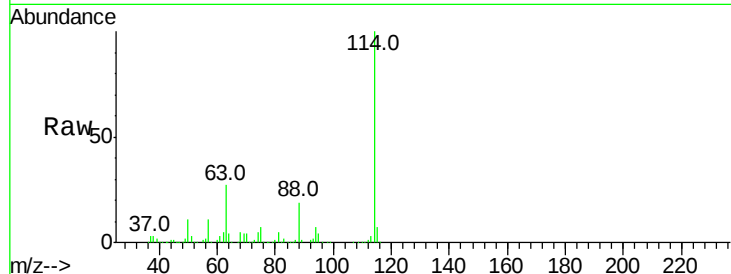




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 18:19

Tgt Ion: 114 Resp: 2317078

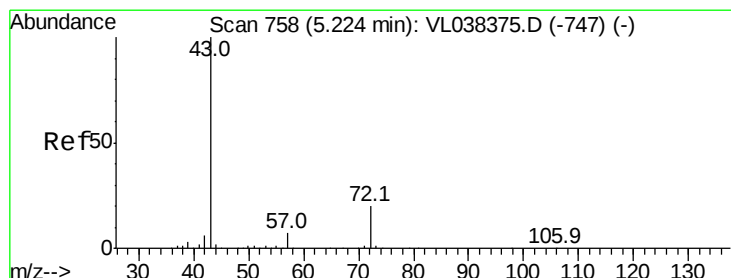
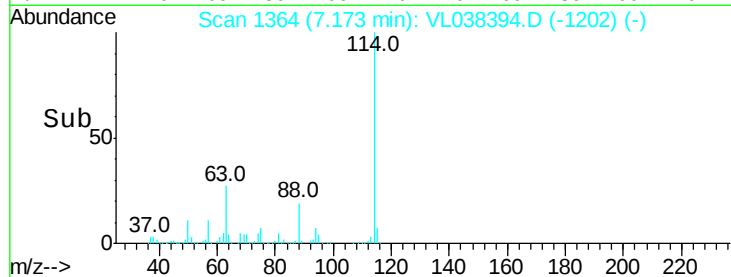
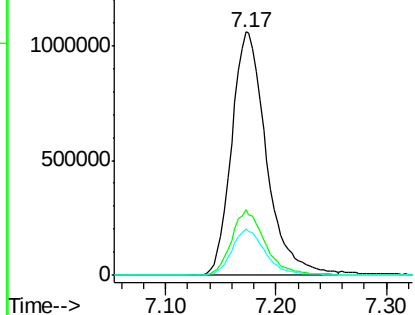
Ion	Ratio	Lower	Upper
114	100		
63	26.6	22.2	33.2
88	18.8	15.2	22.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

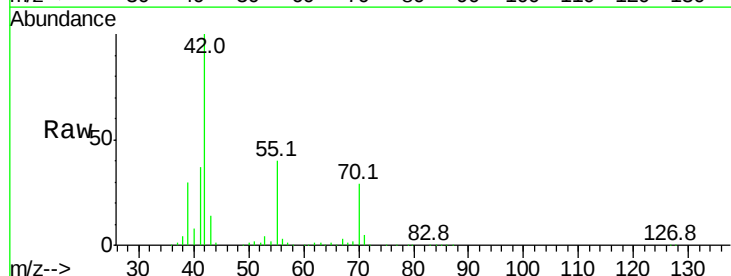
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 1.30 ppbv
 RT: 5.11 min Scan# 724
 Delta R.T. -0.11 min
 Lab File: VL038394.D
 Acq: 22 Feb 2022 18:19

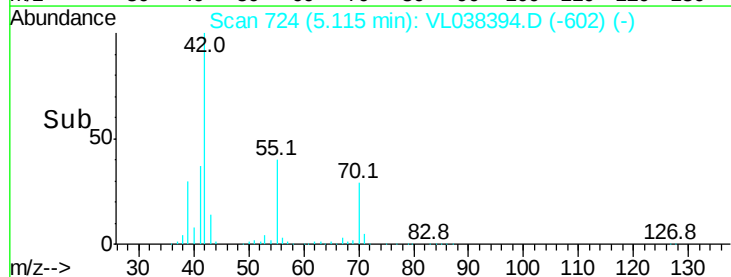
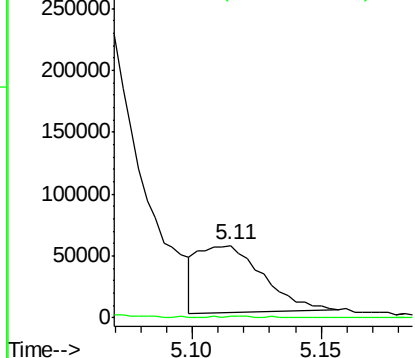
Tgt Ion: 43 Resp: 94795

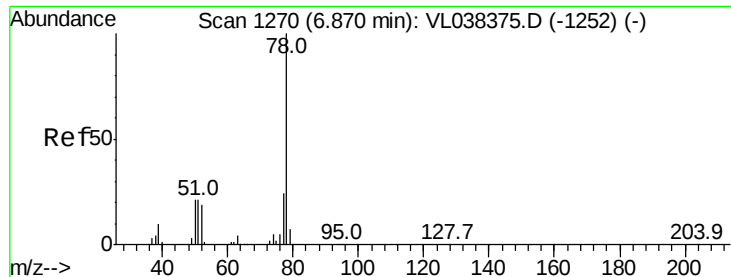
Ion	Ratio	Lower	Upper
43	100		
72	1.5	17.4	26.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.05 ppbv

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 18:19 MP-11DL

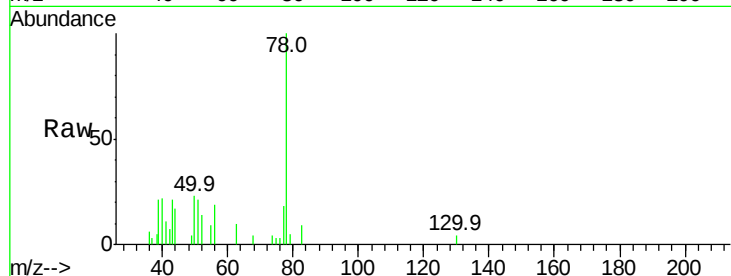
Tgt Ion: 78 Resp: 9785

Ion Ratio Lower Upper

78 100

77 17.6 19.0 28.6#

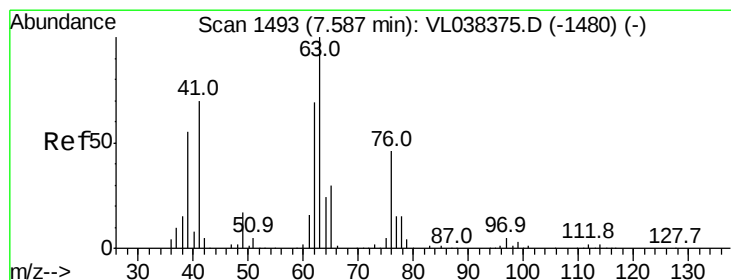
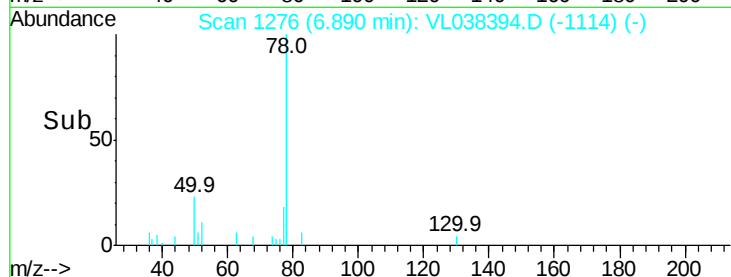
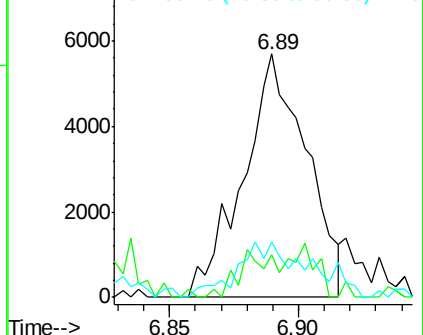
50 43.7 16.6 24.8#



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: 7.42 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.41 min

Lab File: VL038394.D

Acq: 22 Feb 2022 18:19

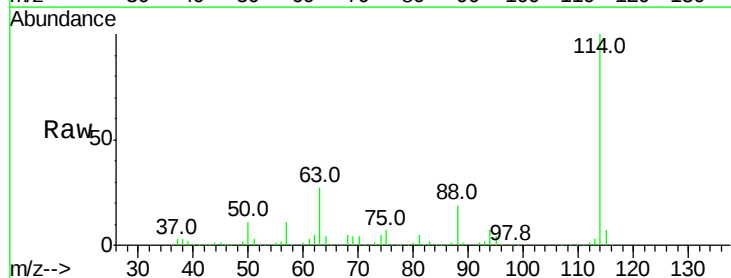
Tgt Ion: 63 Resp: 602793

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

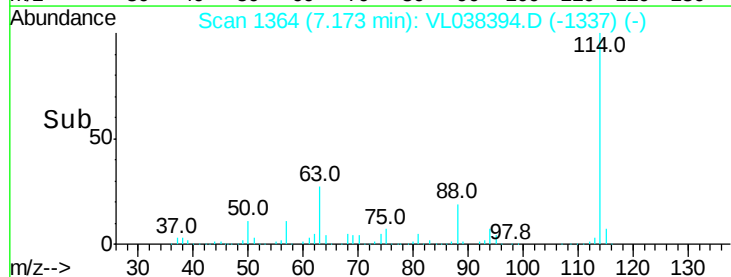
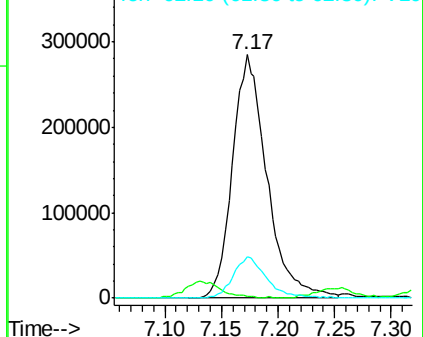
62 17.2 55.5 83.3#

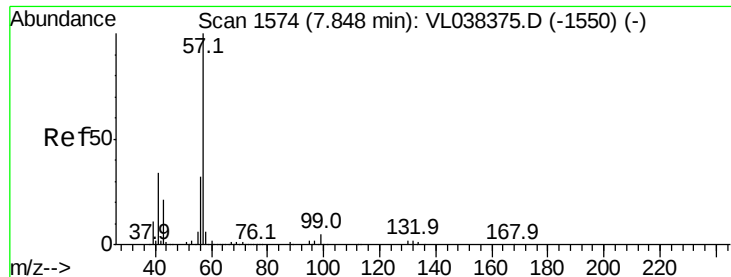


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

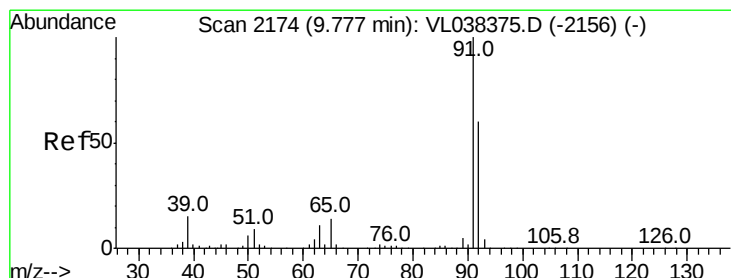
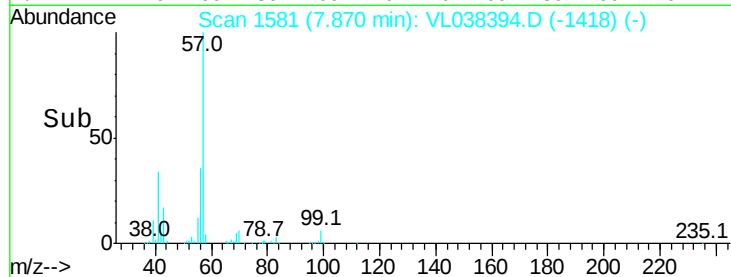
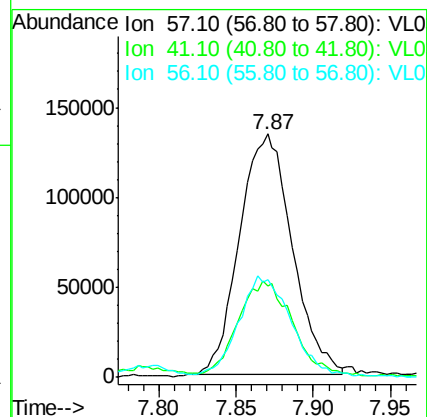
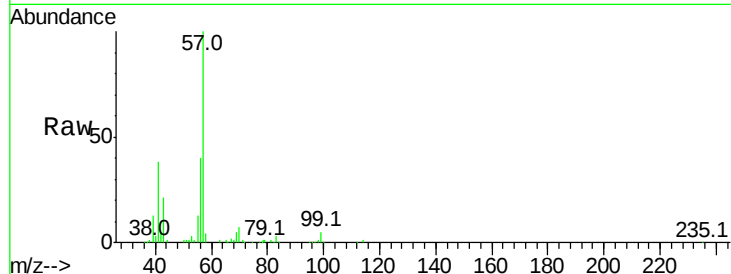
Ion 62.10 (61.80 to 62.80): VL0





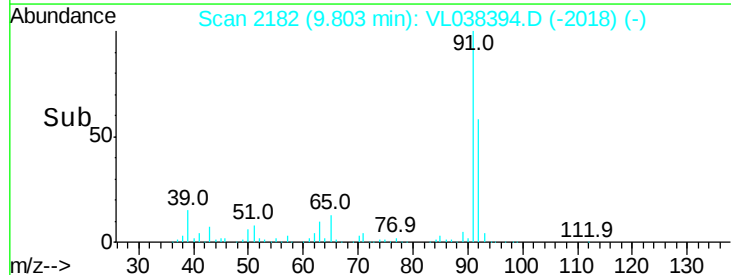
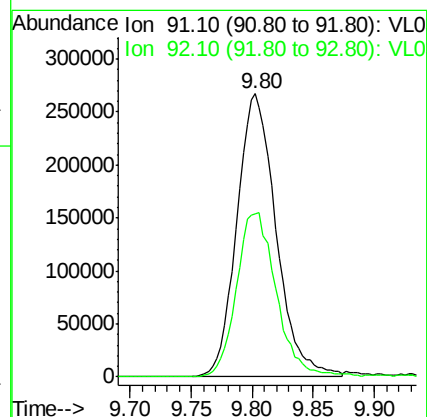
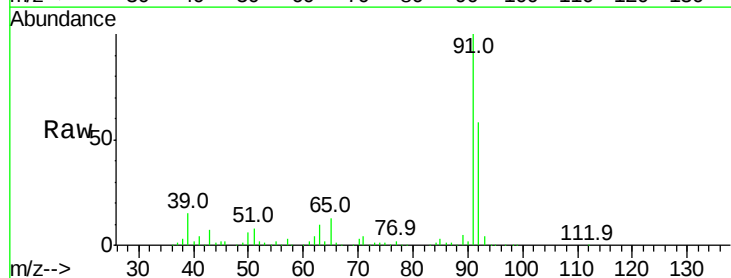
#44
 2,2,4-Trimethylpentane
 Concen: 0.91 ppbv
 RT: 7.87
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 18:19

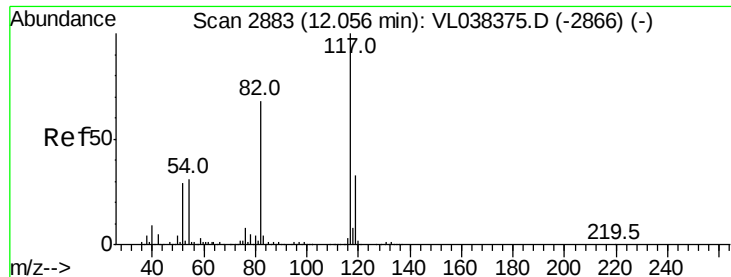
Tgt Ion: 57 Resp: 317967
 Ion Ratio Lower Upper
 57 100
 41 42.4 26.6 39.8#
 56 43.2 25.0 37.6#



#53
 Toluene
 Concen: 2.69 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. 0.03 min
 Lab File: VL038394.D
 Acq: 22 Feb 2022 18:19

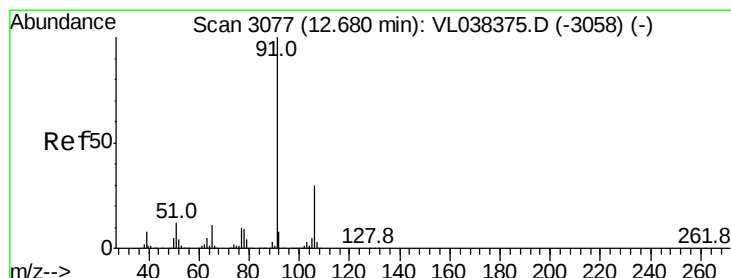
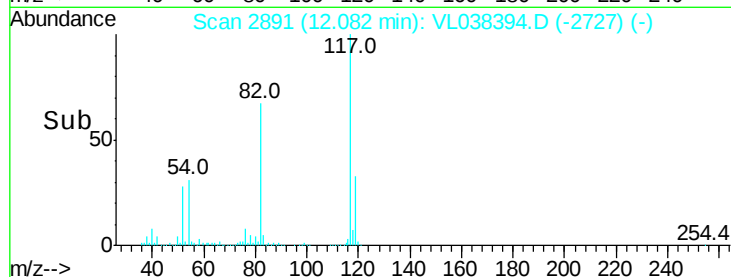
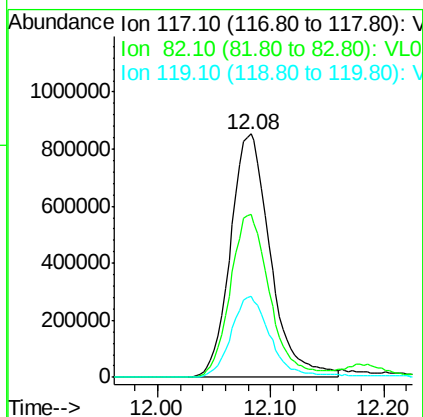
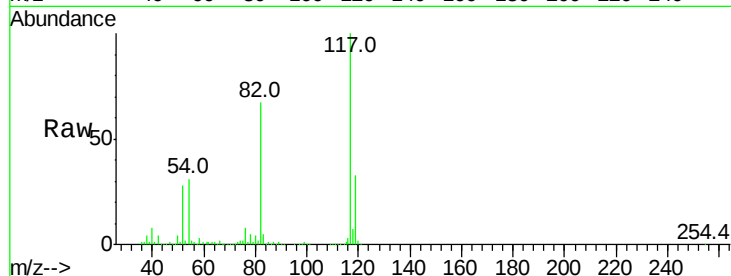
Tgt Ion: 91 Resp: 595211
 Ion Ratio Lower Upper
 91 100
 92 59.8 48.2 72.4





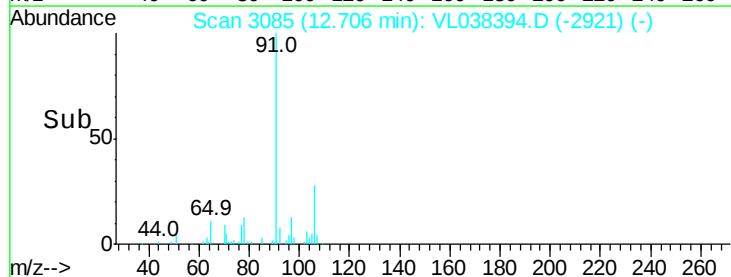
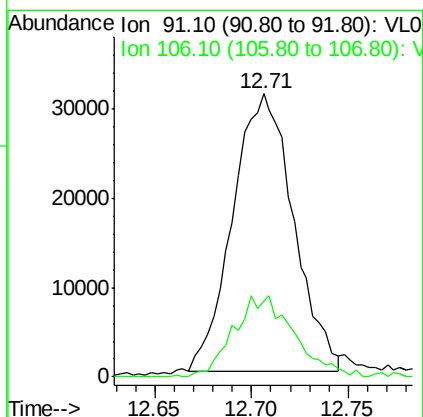
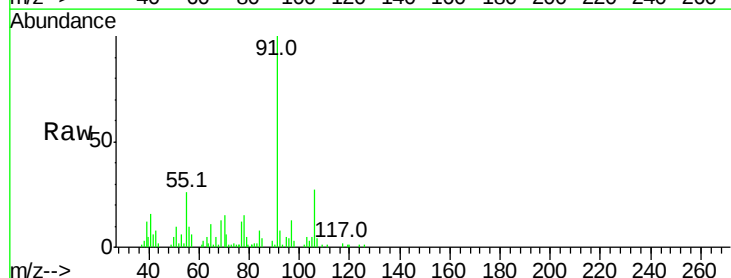
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
MP-11DL
Acq: 22 Feb 2022 18:19

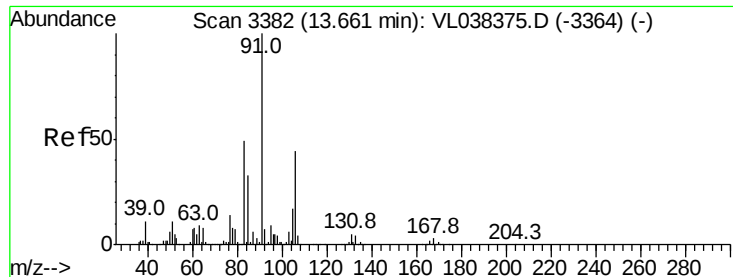
Tgt Ion: 117 Resp: 2091123
Ion Ratio Lower Upper
117 100
82 67.0 54.9 82.3
119 33.8 46.1 69.1#



#58
Ethyl Benzene
Concen: 0.24 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. 0.03 min
Lab File: VL038394.D
Acq: 22 Feb 2022 18:19

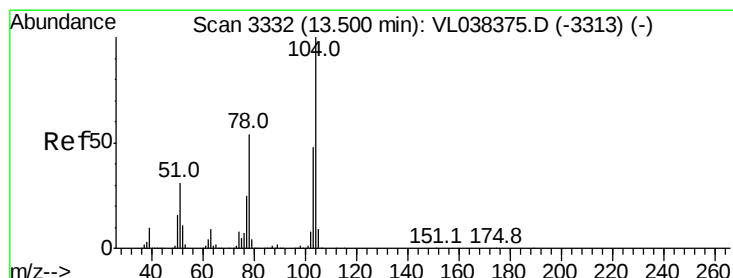
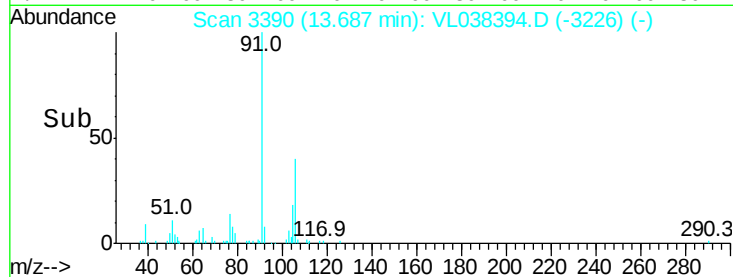
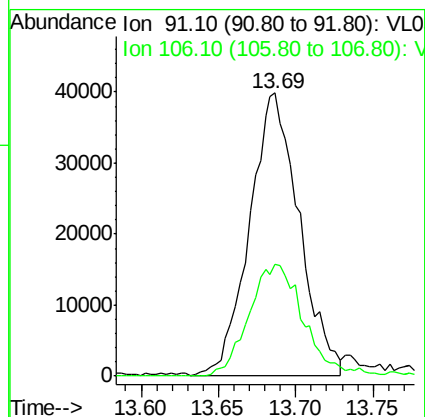
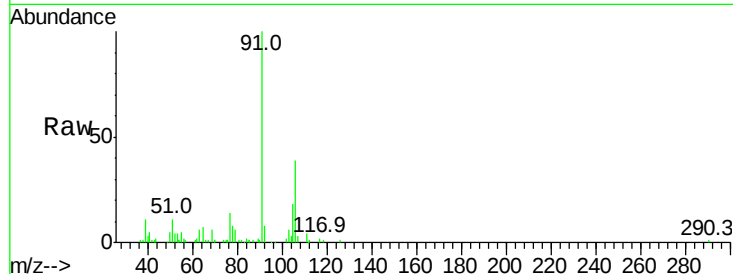
Tgt Ion: 91 Resp: 67858
Ion Ratio Lower Upper
91 100
106 27.5 24.0 36.0





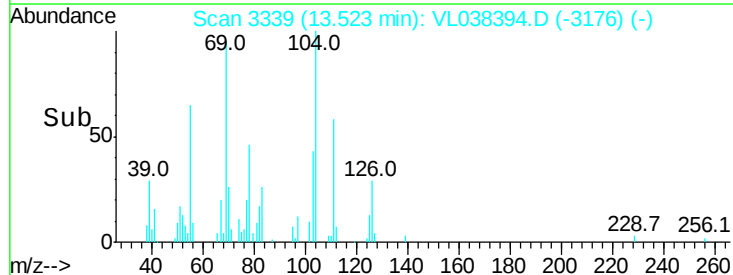
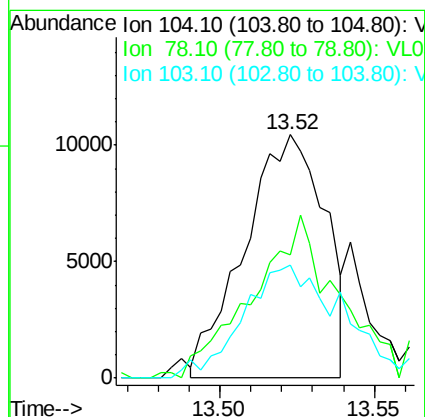
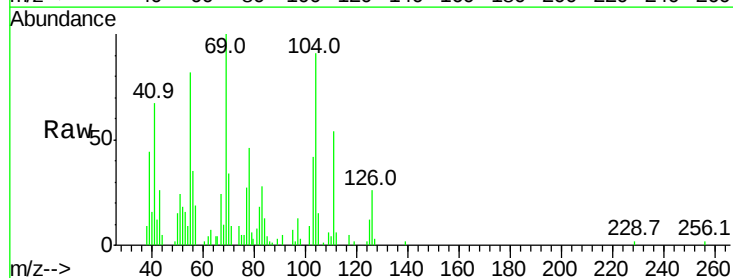
#60
o-Xylene
Concen: 0.38 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 18:19

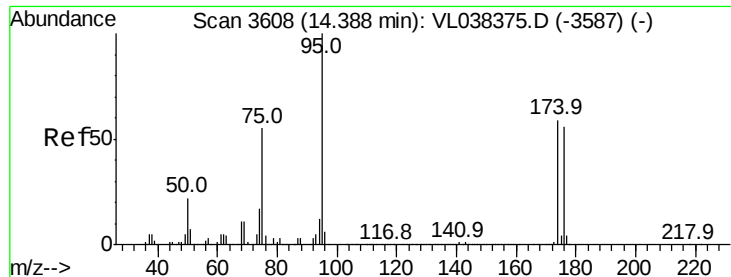
Tgt Ion: 91 Resp: 88159
Ion Ratio Lower Upper
91 100
106 44.7 21.9 65.5



#61
Styrene
Concen: 0.18 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. 0.02 min
Lab File: VL038394.D
Acq: 22 Feb 2022 18:19

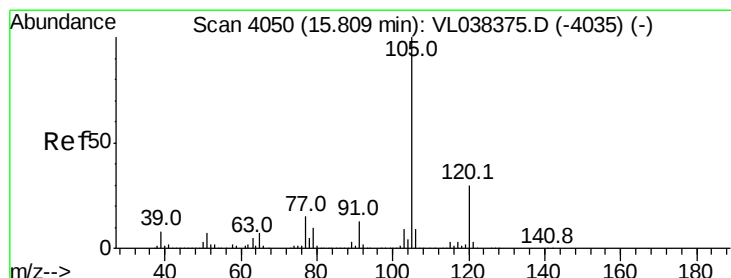
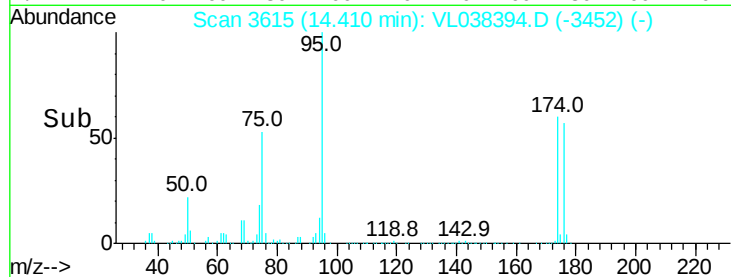
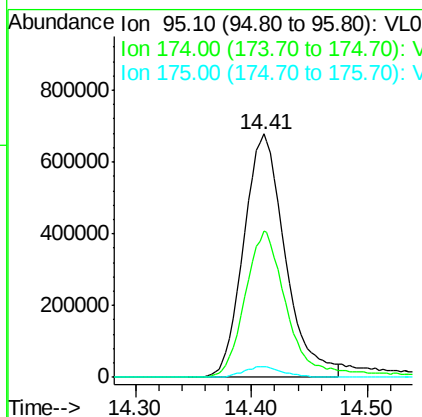
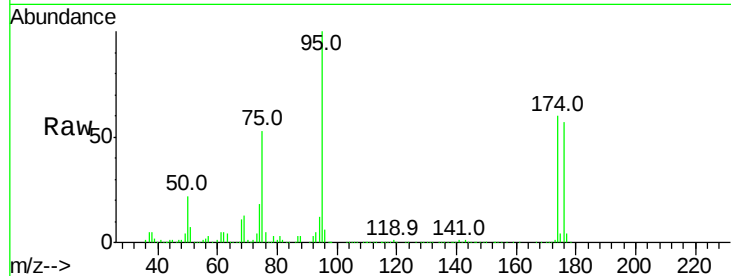
Tgt Ion: 104 Resp: 18914
Ion Ratio Lower Upper
104 100
78 76.0 44.2 66.4#
103 60.0 38.4 57.6#





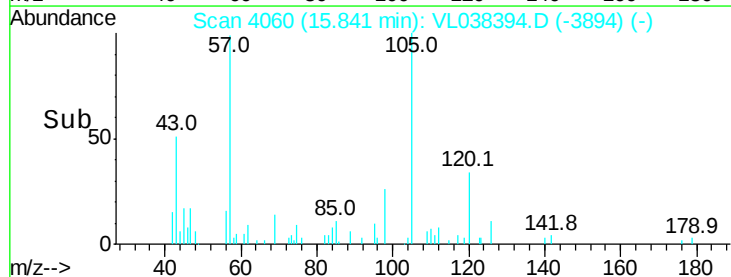
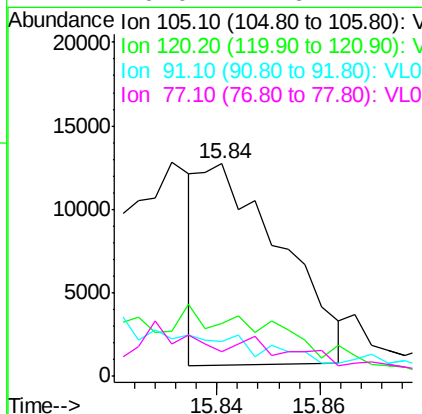
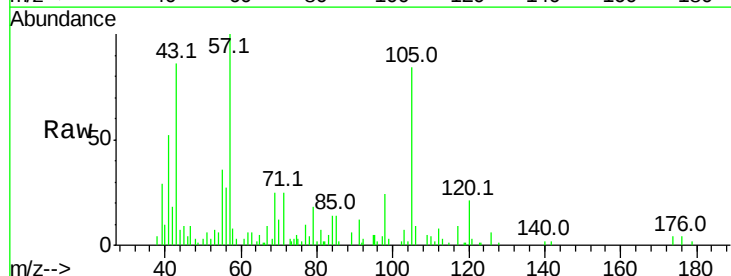
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.77 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 18:19

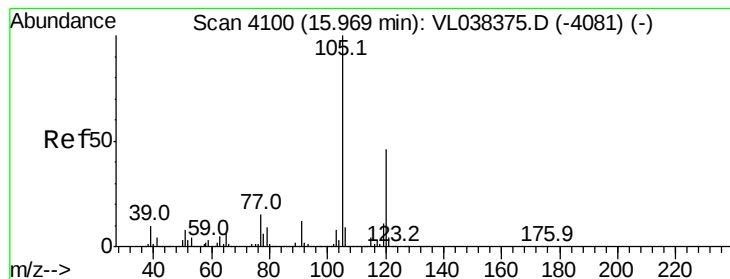
Tgt Ion: 95 Resp: 1690804
 Ion Ratio Lower Upper
 95 100
 174 63.3 49.0 73.4
 175 4.6 3.6 5.4



#72
 4-Ethyltoluene
 Concen: 0.05 ppbv
 RT: 15.84 min Scan# 4060
 Delta R.T. 0.03 min
 Lab File: VL038394.D
 Acq: 22 Feb 2022 18:19

Tgt Ion: 105 Resp: 13265
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.4 35.2#
 91 0.0 10.4 15.6#
 77 0.0 11.6 17.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.17 ppbv

RT: 15.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

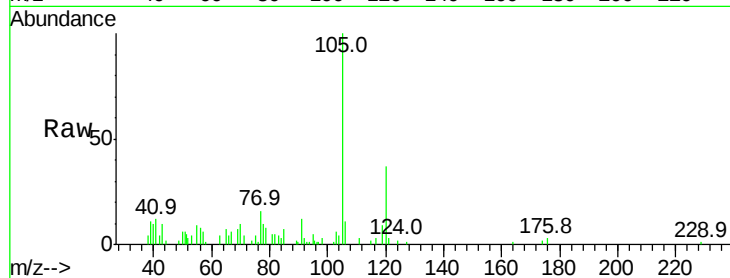
Acq: 22 Feb 2022 18:19

Tgt Ion:105 Resp: 39247

Ion Ratio Lower Upper

105 100

120 36.5 36.6 55.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.99

20000

15000

10000

5000

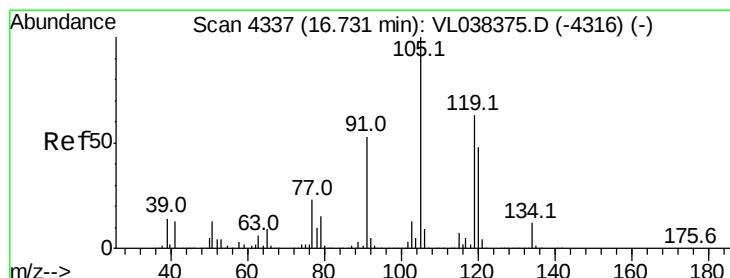
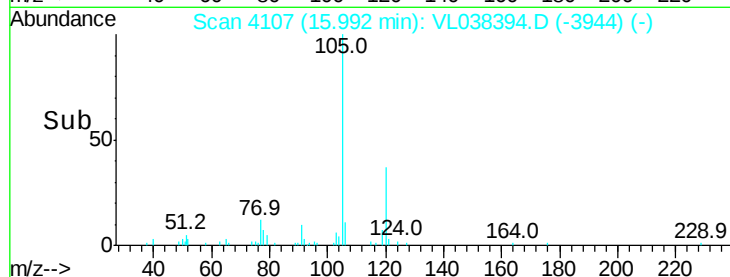
0

Time-->

15.95

16.00

16.05



#74

1,2,4-Trimethylbenzene

Concen: 0.04 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.03 min

Lab File: VL038394.D

Acq: 22 Feb 2022 18:19

Tgt Ion:105 Resp: 9802

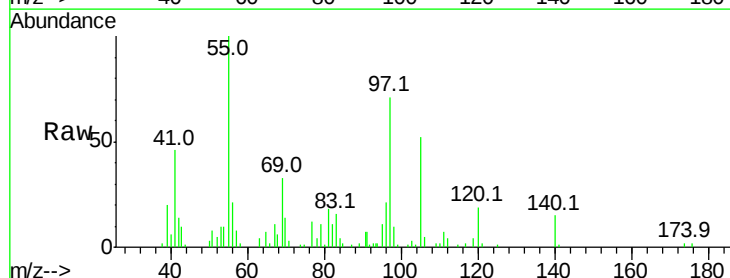
Ion Ratio Lower Upper

105 100

120 36.3 38.2 57.4#

91 31.1 42.7 64.1#

77 23.5 18.5 27.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

15000

10000

5000

0

Time-->

16.76

16.78

16.80

