

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061521\
 Data File : VL037157.D
 Acq On : 15 Jun 2021 15:07
 Operator : SY/AP
 Sample : M2702-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 16 01:44:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jun 14 16:49:11 2021
 QLast Update : Mon Jun 14 16:49:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1411326	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4094778	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3686196	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2837692	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	55168	0.245	ppbv 91
3) Chlorodifluoromethane	2.97	51	330145	1.247	ppbv # 71
4) Chloromethane	3.15	50	98009	1.086	ppbv 97
7) Chloroethane	3.57	64	1870	0.055	ppbv 92
9) Propene	3.03	41	267115	3.059	ppbv # 74
10) Heptane	8.14	43	186703	0.897	ppbv 98
11) Trichlorofluoromethane	3.96	101	74878	0.294	ppbv 89
12) 1,1,2-Trichlorotrifluoroet	4.50	101	7137	0.041	ppbv # 44
13) Ethanol	3.62	45	4346320	360.210	ppbv 99
15) Acetone	3.86	43	4780501	28.307	ppbv 100
16) 1,3-Butadiene	3.34	39	11918	0.131	ppbv # 1
17) tert-Butyl alcohol	3.98	59	242741	1.661	ppbv 97
19) Isopropyl Alcohol	3.99	45	6448145	69.579	ppbv 100
20) Methylene Chloride	4.36	84	5269404	71.594	ppbv 94
21) Allyl Chloride	4.36	41	211890	1.878	ppbv # 18
23) Vinyl Acetate	5.08	43	361891	1.632	ppbv # 64
25) Ethyl Acetate	5.70	43	1436742	4.342	ppbv # 85
26) Hexane	5.70	57	1641736	9.976	ppbv # 54
27) Carbon Disulfide	4.56	76	3914	0.023	ppbv # 49
29) Chloroform	5.77	83	191220	0.720	ppbv 91
30) Cyclohexane	7.15	84	4164	0.029	ppbv # 1
31) cis-1,2-Dichloroethene	5.69	61	44366	0.280	ppbv # 24
34) 2-Butanone	5.26	43	372292	2.421	ppbv 97
35) Carbon Tetrachloride	7.03	117	6852	0.027	ppbv 86
36) Benzene	6.91	78	112329	0.346	ppbv 99
37) 1,2-Dichloroethane	6.32	62	5822	0.031	ppbv # 91
39) 1,2-Dichloropropane	7.19	63	977126	7.877	ppbv # 24
41) Tetrahydrofuran	6.05	42	11828	0.158	ppbv # 77
43) Methyl Methacrylate	8.03	69	4967	0.045	ppbv # 1
44) 2,2,4-Trimethylpentane	7.89	57	115066	0.212	ppbv # 85
50) 4-Methyl-2-Pentanone	8.76	43	14806	0.065	ppbv # 39
51) 2-Hexanone	10.16	43	219490	1.944	ppbv # 97
52) Tetrachloroethene	11.24	164	94741	0.705	ppbv 89
53) Toluene	9.83	91	502559	1.301	ppbv 100
58) Ethyl Benzene	12.73	91	352114	0.705	ppbv 97
59) m/p-Xylene	12.99	91	291340	0.687	ppbv # 50
60) o-Xylene	13.71	91	175179	0.430	ppbv 98
61) Styrene	13.55	104	20192	0.094	ppbv # 51
62) Isopropylbenzene	14.68	105	13644	0.023	ppbv # 54
64) n-propylbenzene	15.58	120	8550	0.058	ppbv # 1
65) tert-Butylbenzene	16.77	119	33798	0.064	ppbv # 9

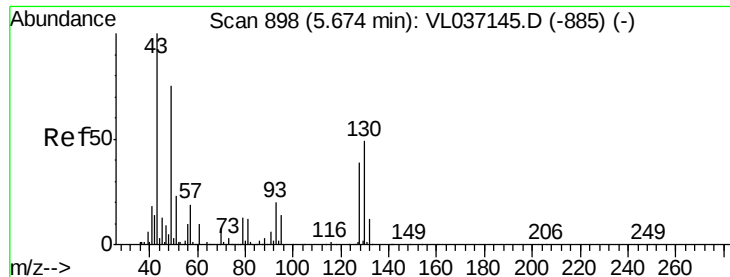
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061521\
 Data File : VL037157.D
 Acq On : 15 Jun 2021 15:07
 Operator : SY/AP
 Sample : M2702-01
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Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 16 01:44:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jun 14 16:49:11 2021
 QLast Update : Mon Jun 14 16:49:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
66) Benzyl Chloride	16.99	91	640	0.028	ppbv	#	1
67) sec-Butylbenzene	17.31	105	49873	0.071	ppbv		96
69) p-Isopropyltoluene	17.67	119	110681	0.189	ppbv		99
70) n-Butylbenzene	18.57	91	76449	0.143	ppbv	#	72
72) 4-Ethyltoluene	15.86	105	43618	0.092	ppbv	#	57
73) 1,3,5-Trimethylbenzene	16.01	105	95795	0.213	ppbv	#	83
74) 1,2,4-Trimethylbenzene	16.78	105	420963	0.922	ppbv	#	73
75) 1,3-Dichlorobenzene	17.15	146	185603	0.660	ppbv		93
76) 1,4-Dichlorobenzene	17.15	146	185603	0.664	ppbv		92
78) Hexachloro-1,3-Butadiene	23.39	225	5934	0.030	ppbv	#	1
79) Naphthalene	22.22	128	185865	0.676	ppbv		98
80) Naphthalene,2-methyl-	24.99	142	11400	0.171	ppbv	#	61

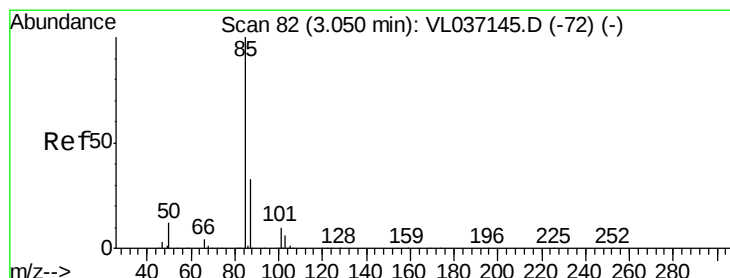
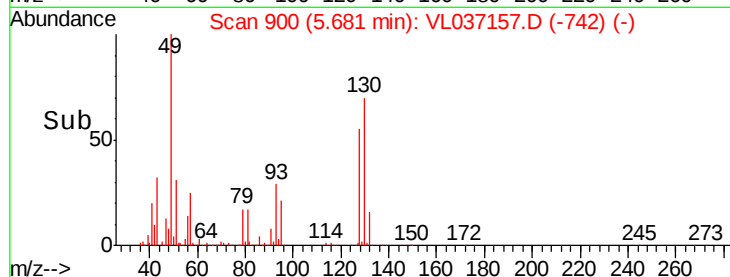
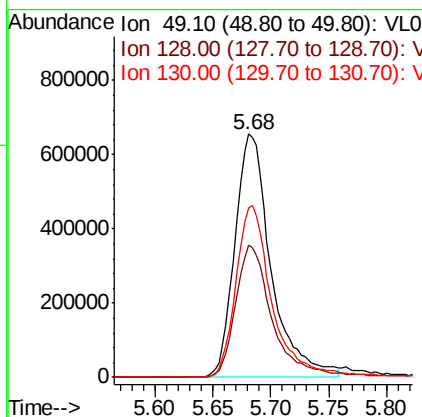
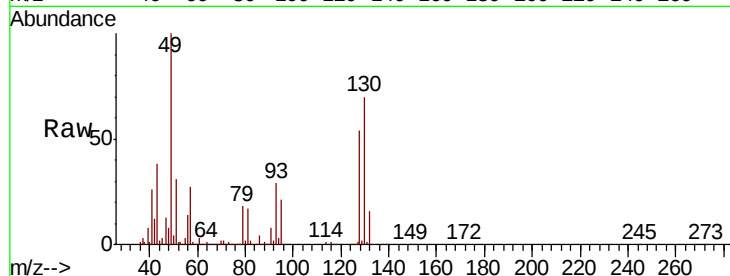
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

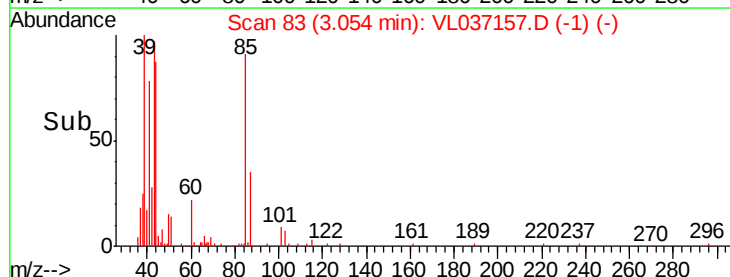
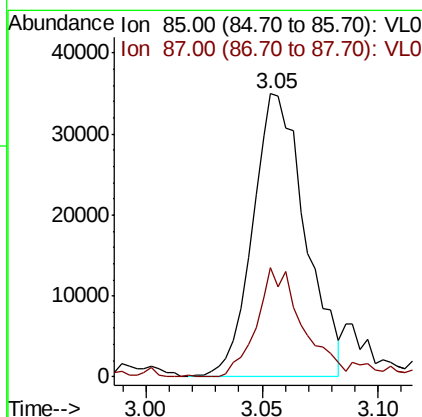
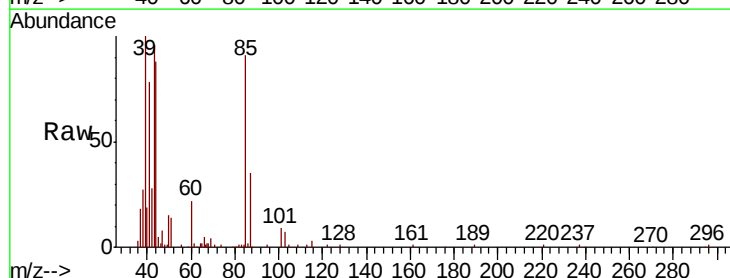
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 MSVOA_L
 ClientSampleId :

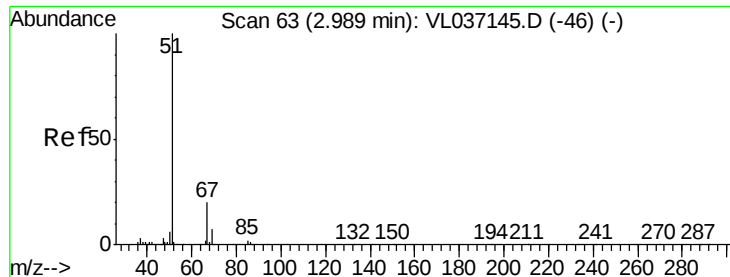
Tot Ion: 49 Resp: 1411326
 Ion Ratio Lower Upper
 49 100
 128 55.9 28.8 86.5
 130 72.5 36.0 108.0



#2
 Dichlorodifluoromethane
 Concen: 0.245 ppbv
 RT: 3.05 min Scan# 83
 Delta R.T. 0.00 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

Tgt Ion: 85 Resp: 55168
 Ion Ratio Lower Upper
 85 100
 87 38.1 26.4 39.6





#3

Chlorodifluoromethane

Concen: 1.247 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

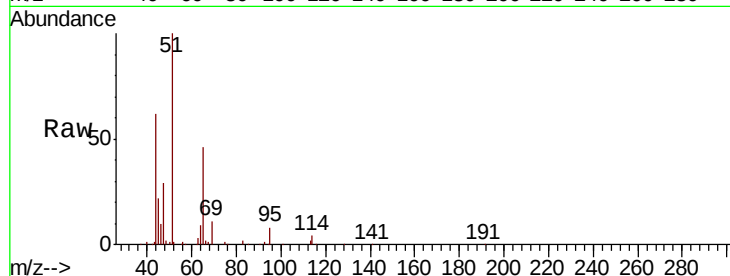
ClientSampleId :

Tot Ion: 51 Resp: 330145

Ion Ratio Lower Upper

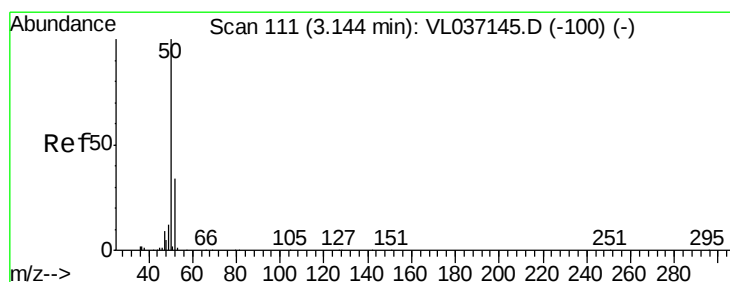
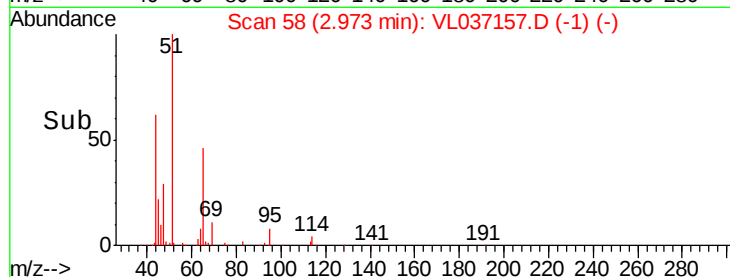
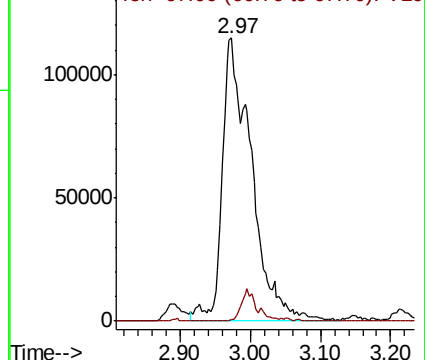
51 100

67 6.5 15.9 23.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.086 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL037157.D

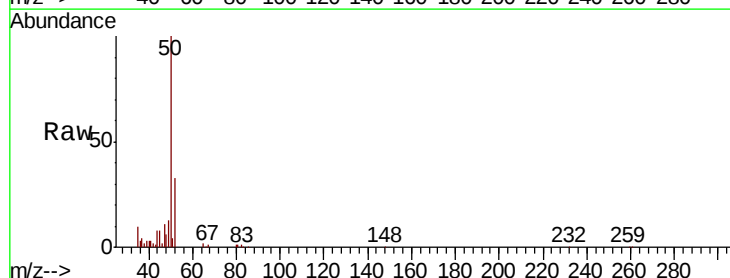
Acq: 15 Jun 2021 15:07

Tgt Ion: 50 Resp: 98009

Ion Ratio Lower Upper

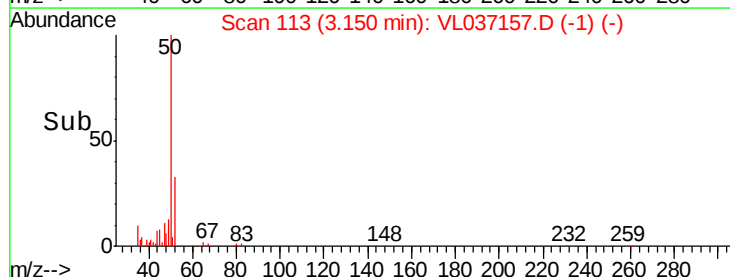
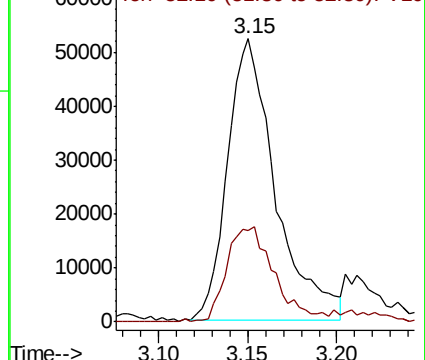
50 100

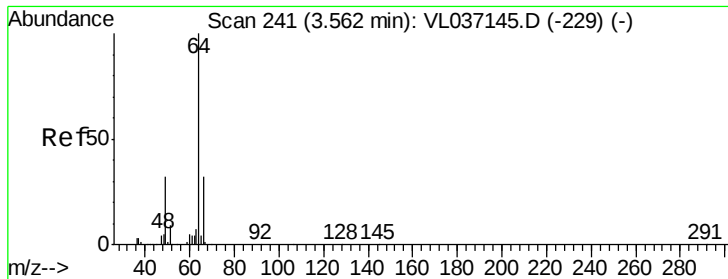
52 32.7 27.4 41.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.055 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

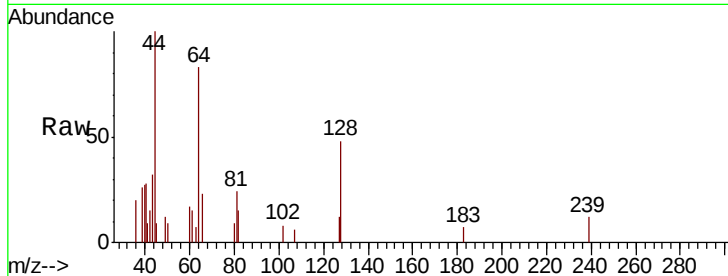
ClientSampleId :

Tot Ion: 64 Resp: 1870

Ion Ratio Lower Upper

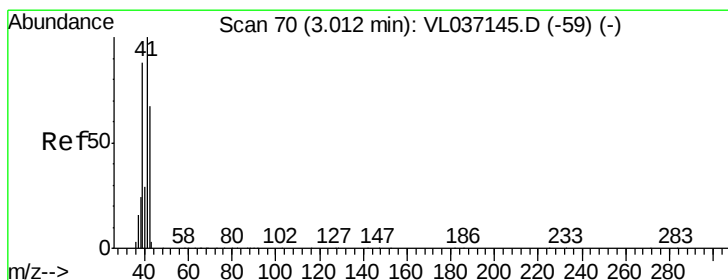
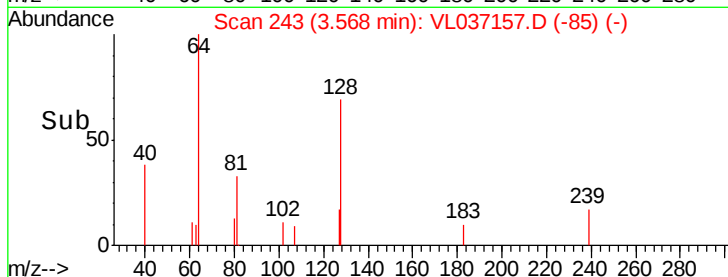
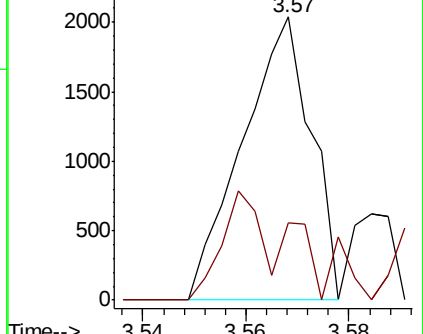
64 100

66 27.2 25.3 37.9



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 3.059 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL037157.D

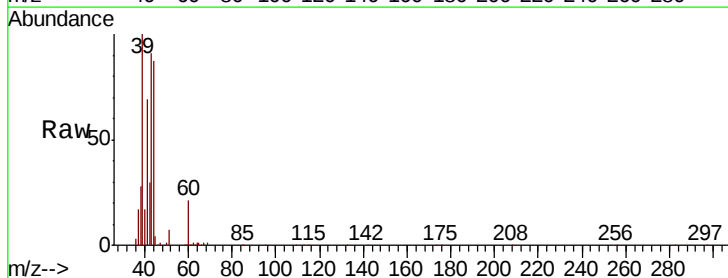
Acq: 15 Jun 2021 15:07

Tgt Ion: 41 Resp: 267115

Ion Ratio Lower Upper

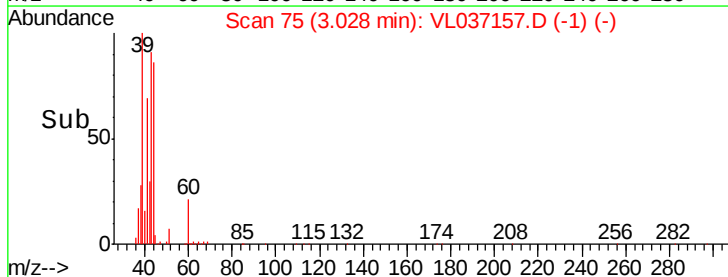
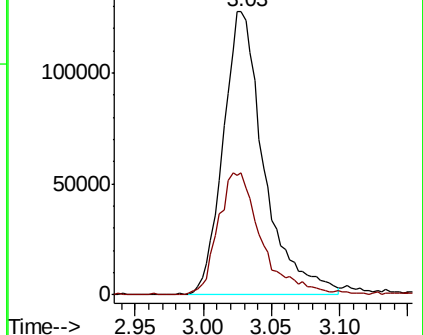
41 100

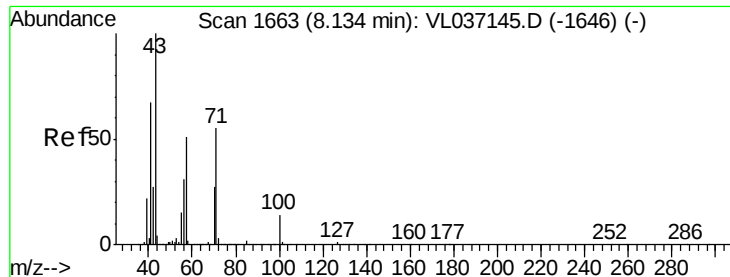
42 46.6 53.8 80.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

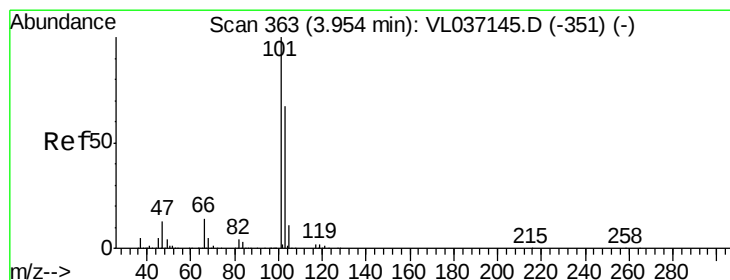
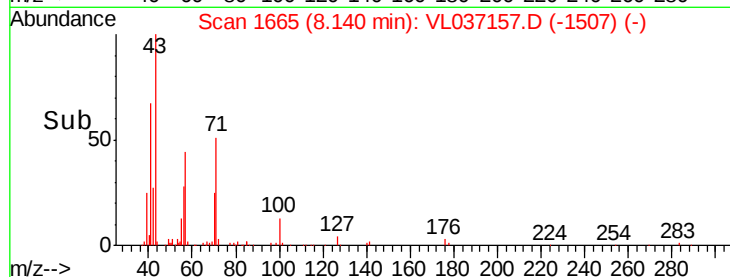
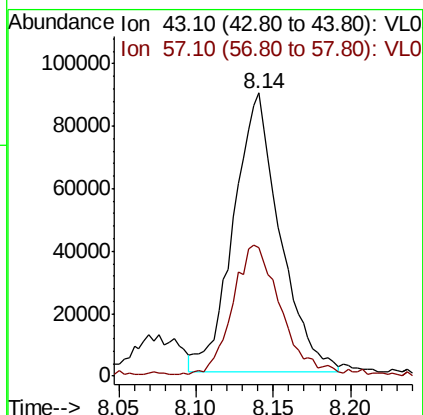
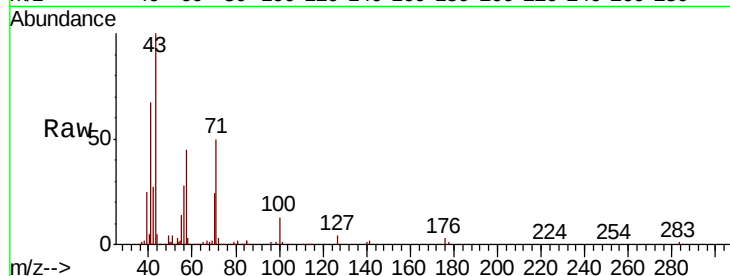




#10
 Heptane
 Concen: 0.897 ppbv
 RT: 8.14 min Scan# 1665
 Delta R.T. 0.01 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

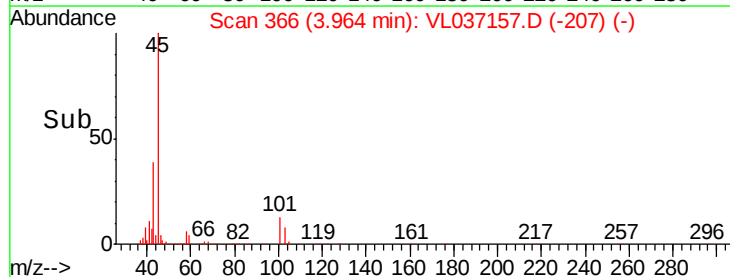
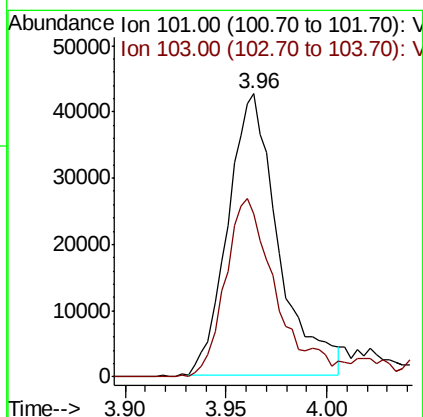
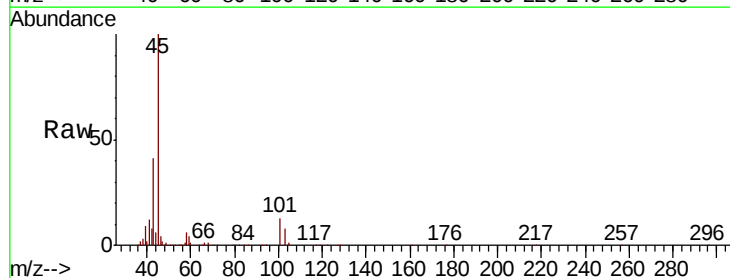
Instrument :
 MSVOA_L
 ClientSampleId :

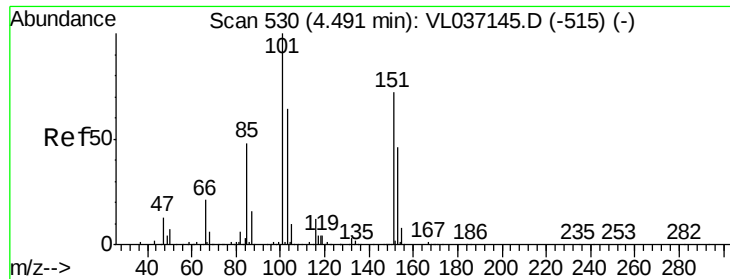
Tot Ion: 43 Resp: 186703
 Ion Ratio Lower Upper
 43 100
 57 49.5 40.5 60.7



#11
 Trichlorofluoromethane
 Concen: 0.294 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

Tgt Ion: 101 Resp: 74878
 Ion Ratio Lower Upper
 101 100
 103 58.0 53.6 80.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.041 ppbv

RT: 4.50 min Scan# 533

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

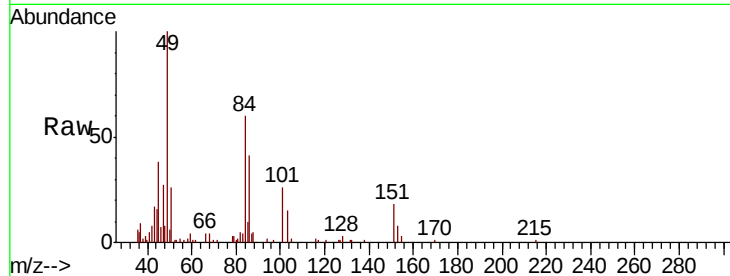
ClientSampleId :

Tot Ion:101 Resp: 7137

Ion Ratio Lower Upper

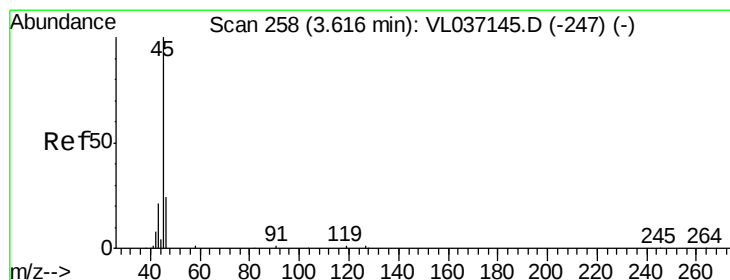
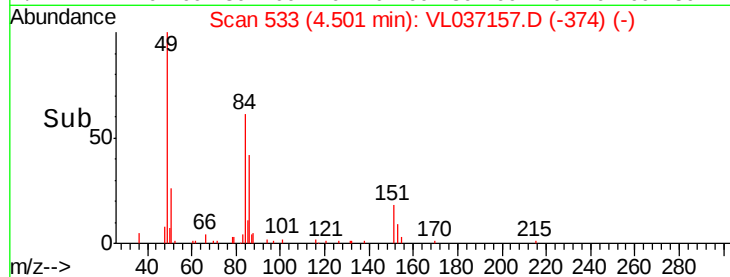
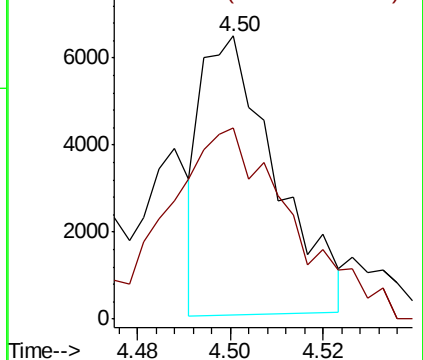
101 100

151 123.3 60.5 90.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 360.210 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.00 min

Lab File: VL037157.D

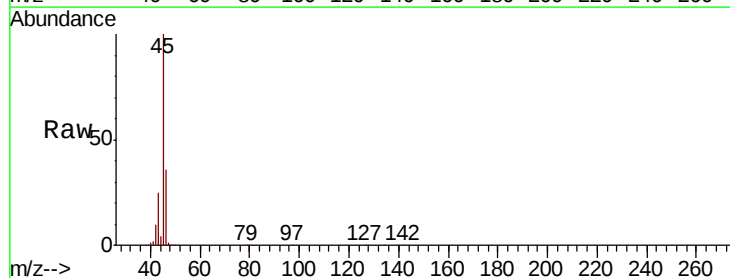
Acq: 15 Jun 2021 15:07

Tgt Ion: 45 Resp: 4346320

Ion Ratio Lower Upper

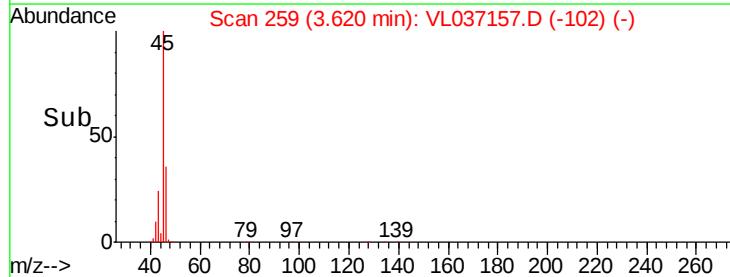
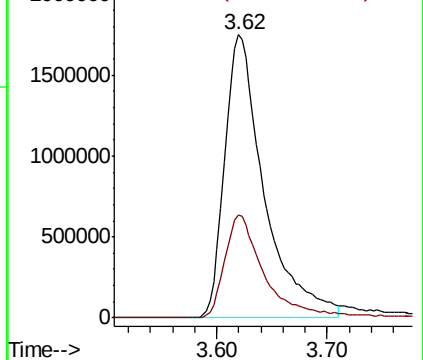
45 100

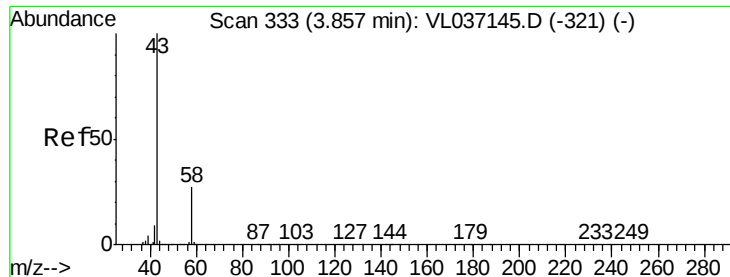
46 37.7 15.4 61.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 28.307 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

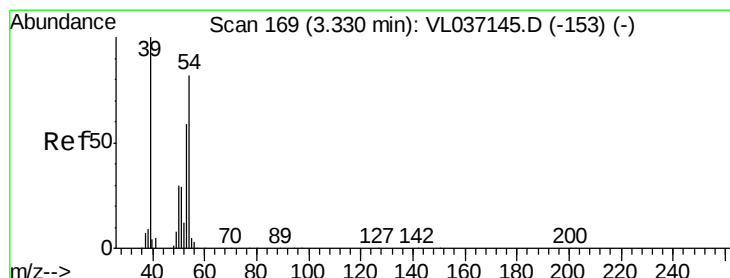
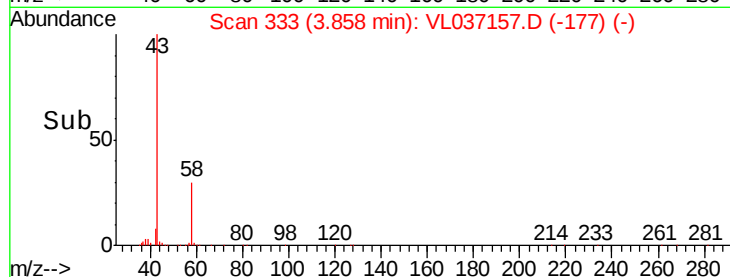
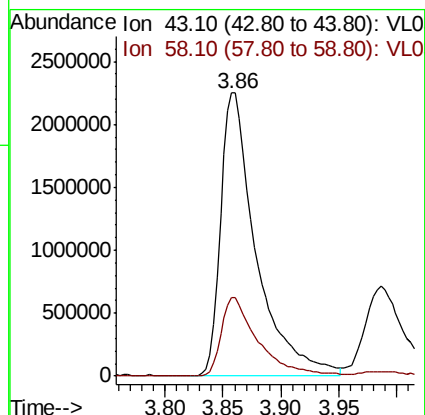
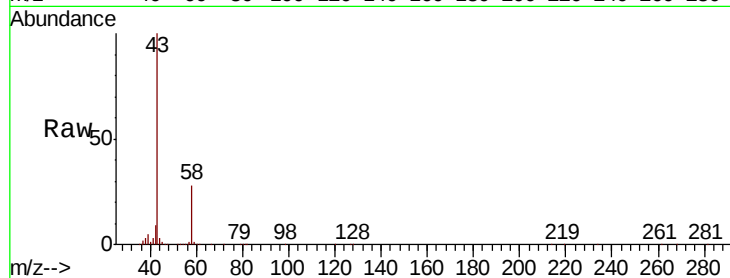
ClientSampleId :

Tot Ion: 43 Resp: 4780501

Ion Ratio Lower Upper

43 100

58 29.0 23.0 34.6



#16

1,3-Butadiene

Concen: 0.131 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL037157.D

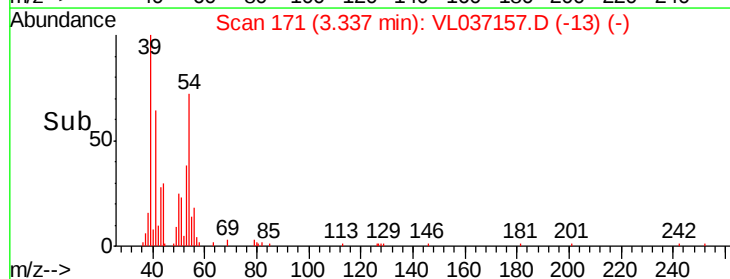
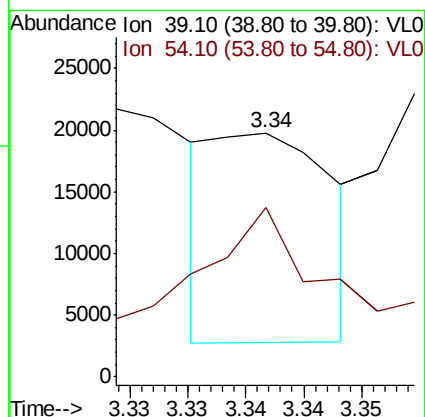
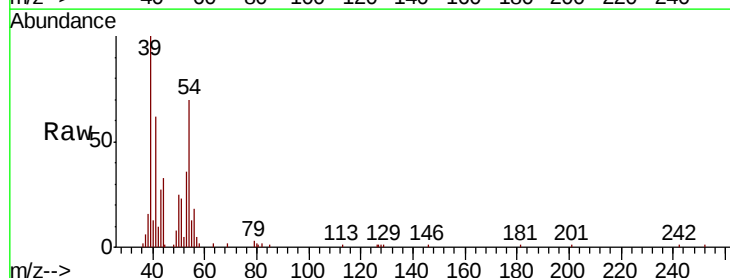
Acq: 15 Jun 2021 15:07

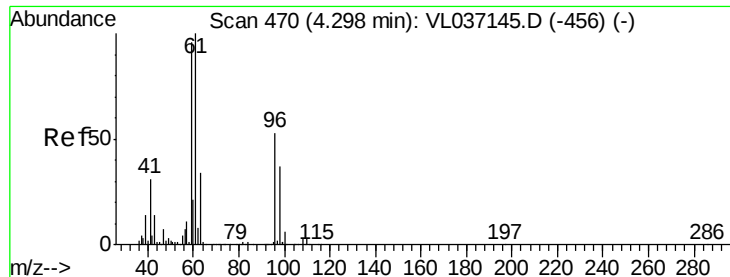
Tgt Ion: 39 Resp: 11918

Ion Ratio Lower Upper

39 100

54 179.0 61.8 92.6#



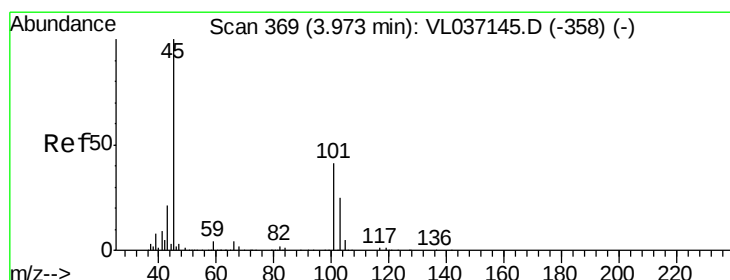
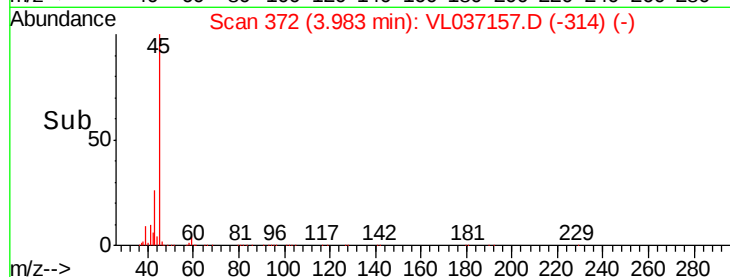
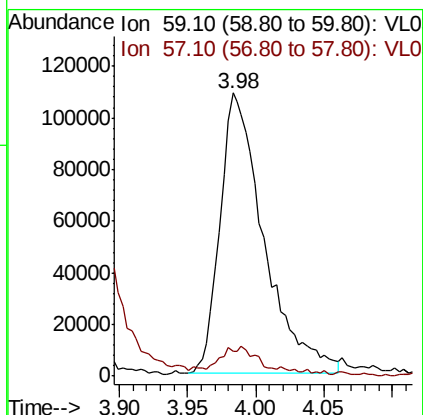
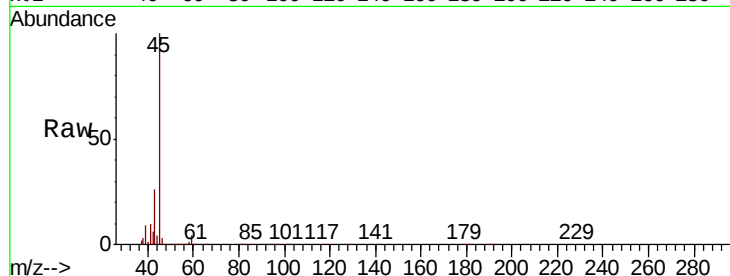


#17

tert-Butyl alcohol
Concen: 1.661 ppbv
RT: 3.98 min Scan# 372
Delta R.T. -0.31 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Instrument :
MSVOA_L
ClientSampleId :

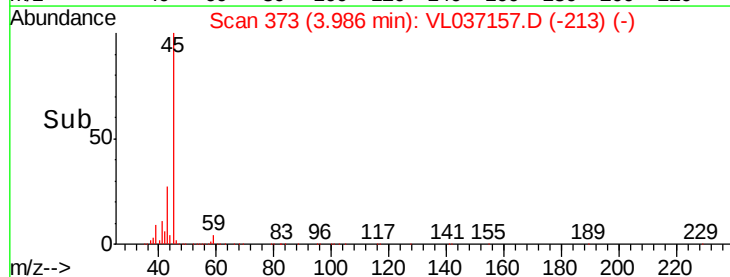
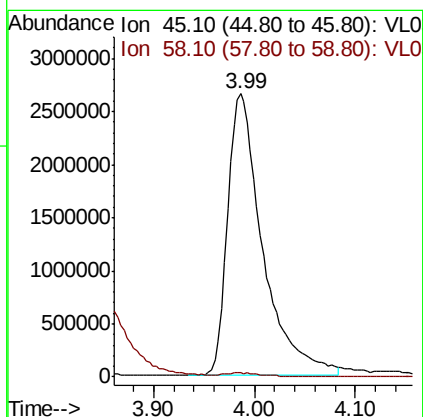
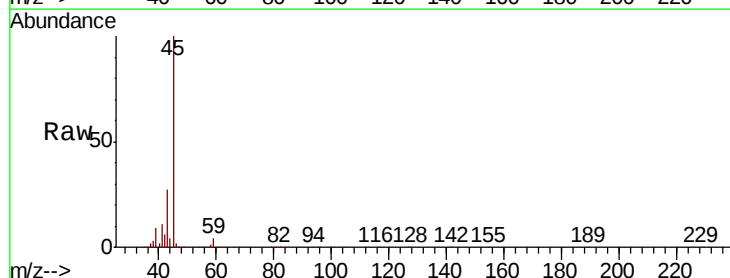
Tot Ion: 59 Resp: 242741
Ion Ratio Lower Upper
59 100
57 12.1 8.8 13.2

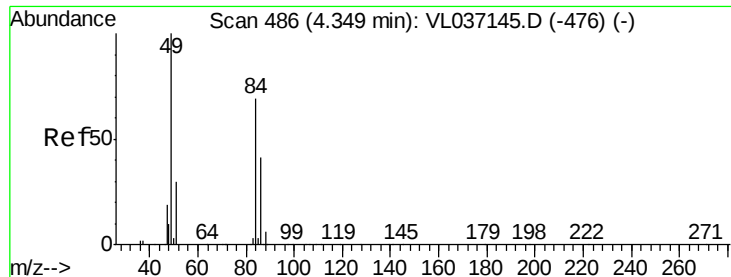


#19

Isopropyl Alcohol
Concen: 69.579 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 45 Resp: 6448145
Ion Ratio Lower Upper
45 100
58 1.8 1.4 2.2





#20

Methylene Chloride

Concen: 71.594 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 84 Resp: 5269404

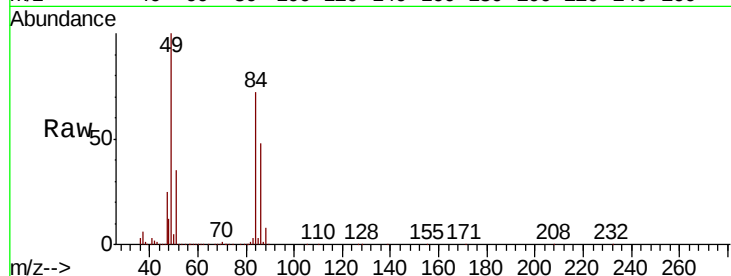
Ion Ratio Lower Upper

84 100

49 139.3 115.3 172.9

51 48.4 34.2 51.4

86 67.1 47.8 71.6

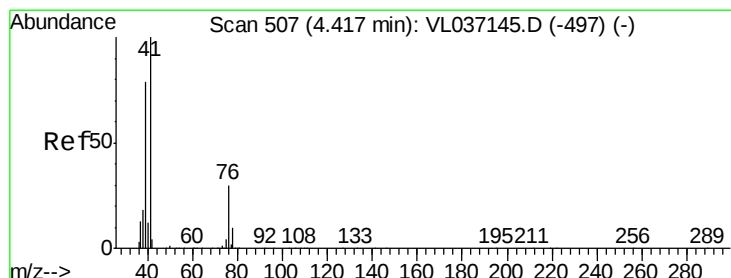
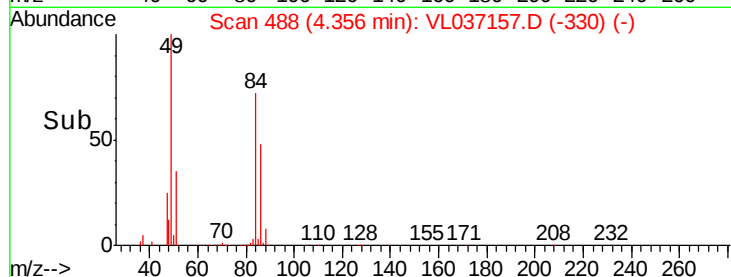
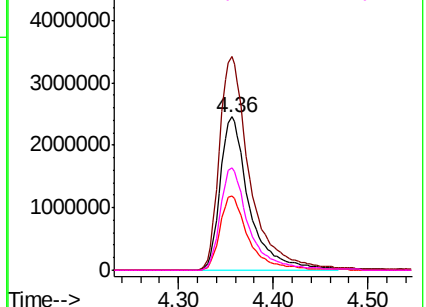


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#21

Allyl Chloride

Concen: 1.878 ppbv

RT: 4.36 min Scan# 488

Delta R.T. -0.06 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

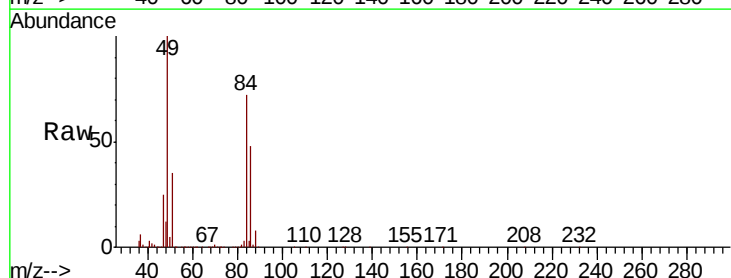
Tgt Ion: 41 Resp: 211890

Ion Ratio Lower Upper

41 100

76 0.0 25.2 37.8#

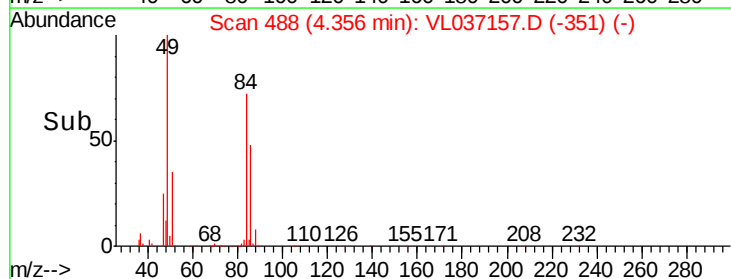
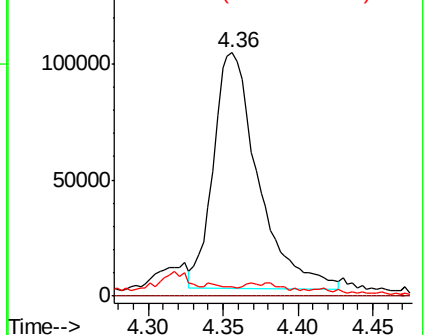
39 0.0 66.2 99.2#

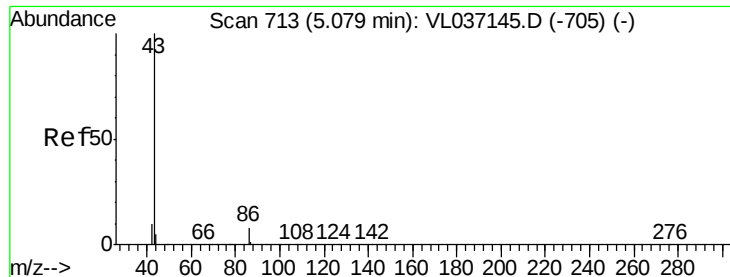


Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 1.632 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 361891

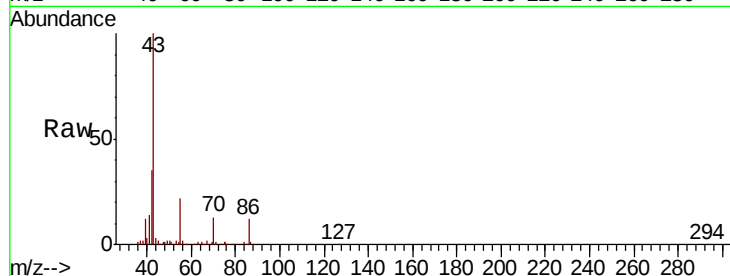
Ion Ratio Lower Upper

43 100

86 11.3 5.4 8.2#

42 34.7 8.6 12.8#

44 2.1 3.8 5.6#

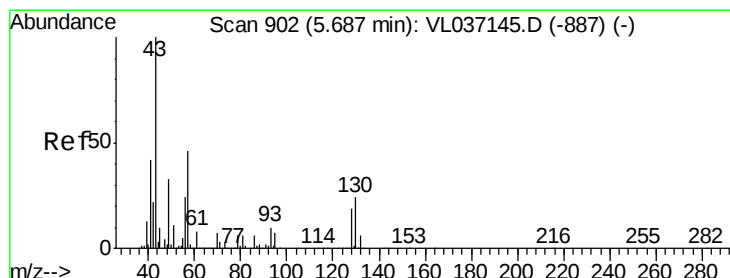
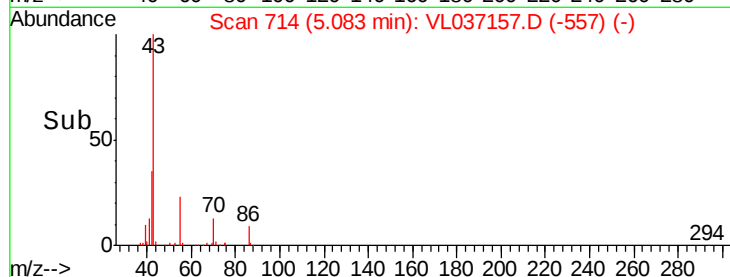
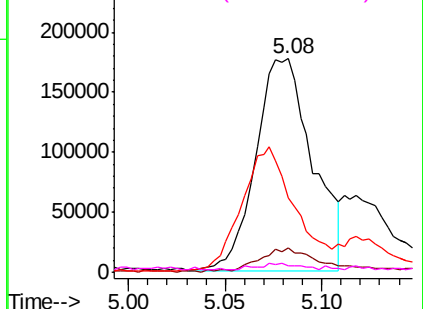


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 4.342 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Tgt Ion: 43 Resp: 1436742

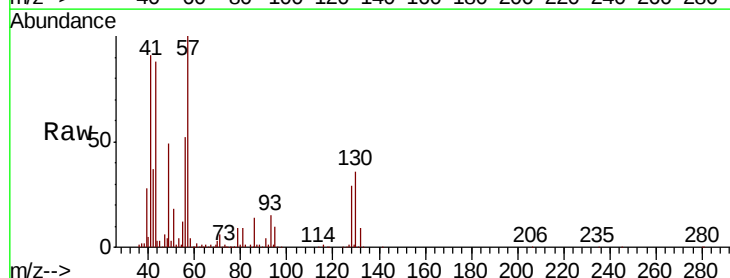
Ion Ratio Lower Upper

43 100

45 3.7 7.8 11.8#

61 3.2 7.5 11.3#

70 3.6 5.7 8.5#

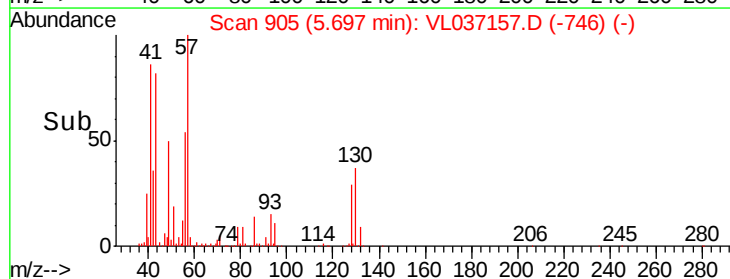
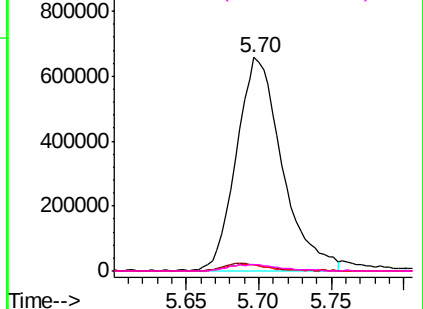


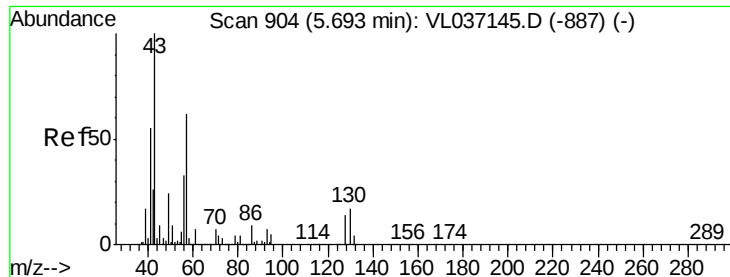
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

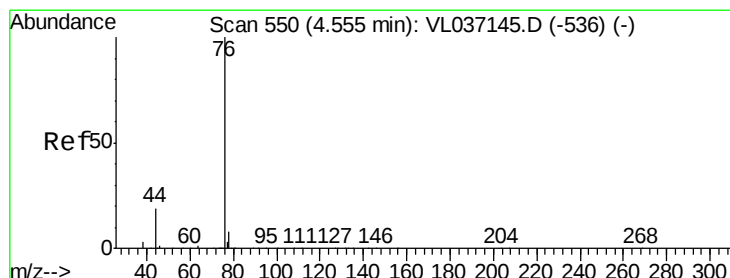
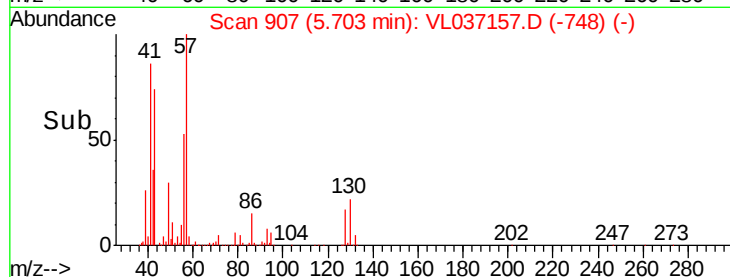
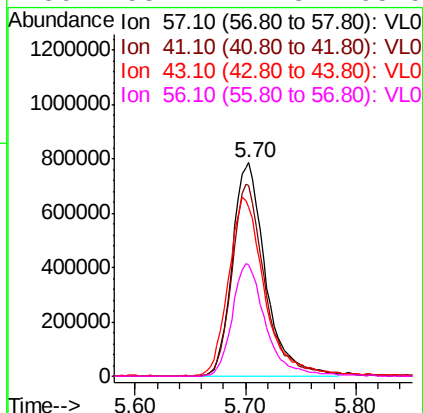
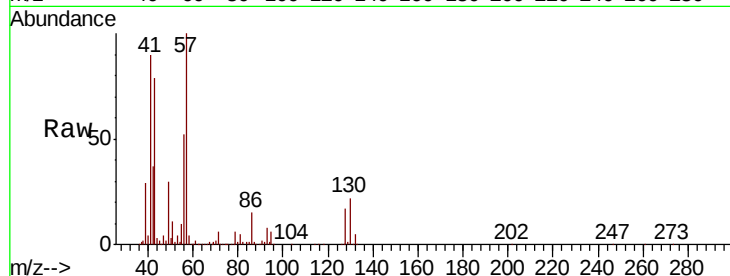




#26
Hexane
Concen: 9.976 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

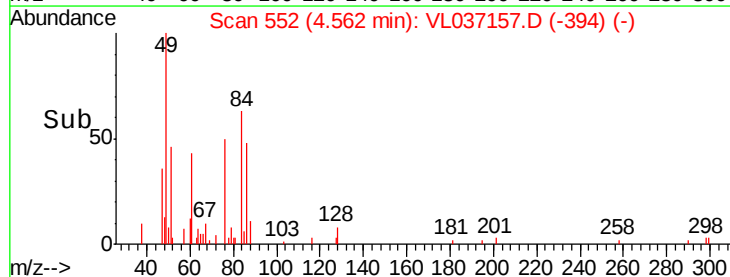
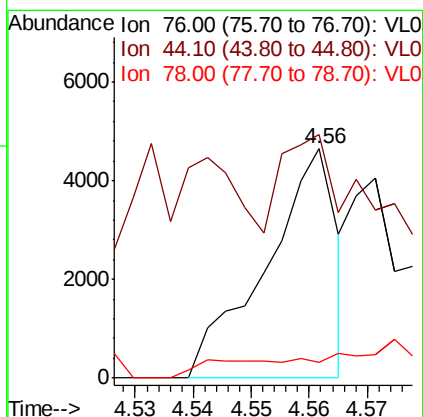
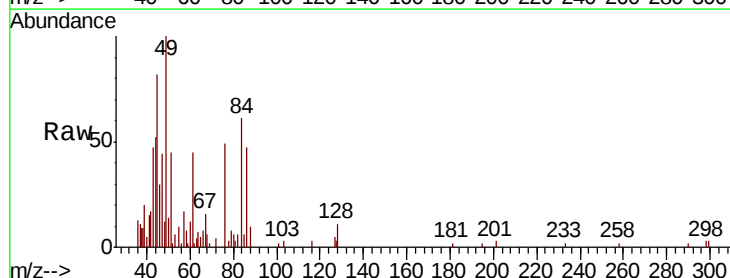
Instrument :
MSVOA_L
ClientSampleId :

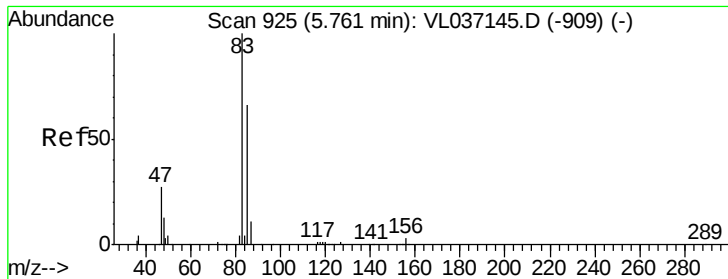
Tot Ion: 57 Resp: 1641736
Ion Ratio Lower Upper
57 100
41 90.2 73.6 110.4
43 90.9 168.8 253.2#
56 53.4 42.3 63.5



#27
Carbon Disulfide
Concen: 0.023 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 76 Resp: 3914
Ion Ratio Lower Upper
76 100
44 48.0 15.6 23.4#
78 0.0 7.6 11.4#

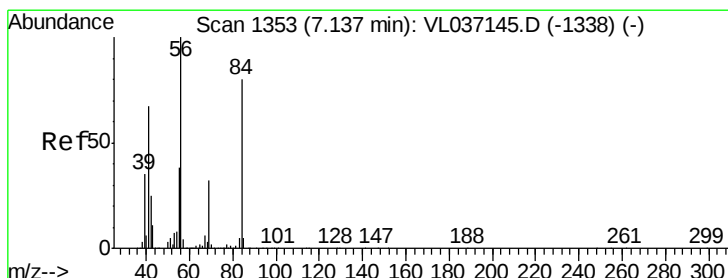
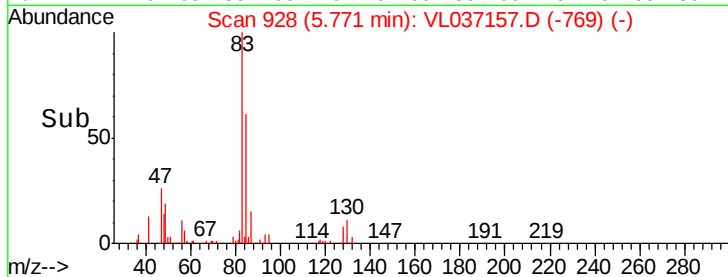
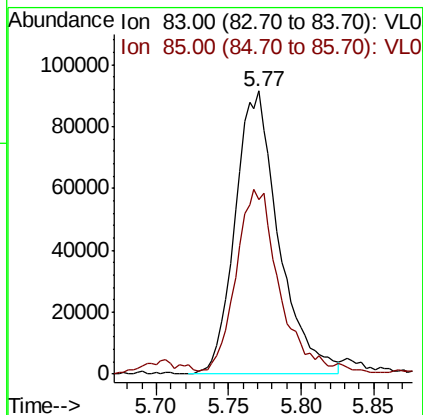
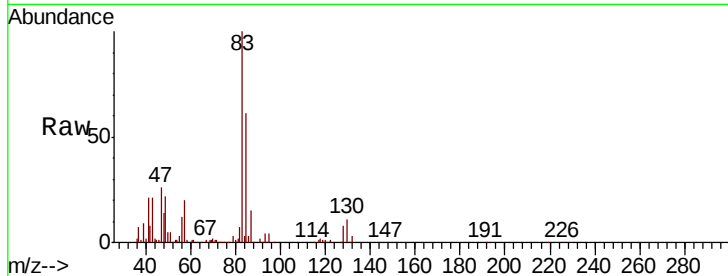




#29
Chloroform
Concen: 0.720 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

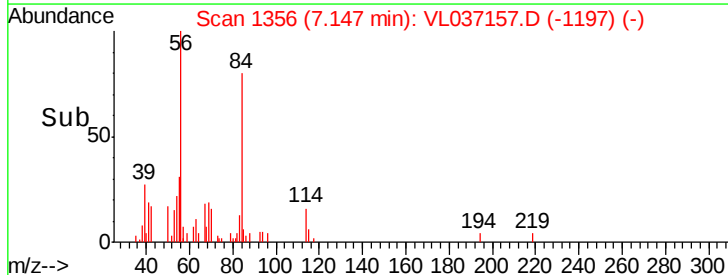
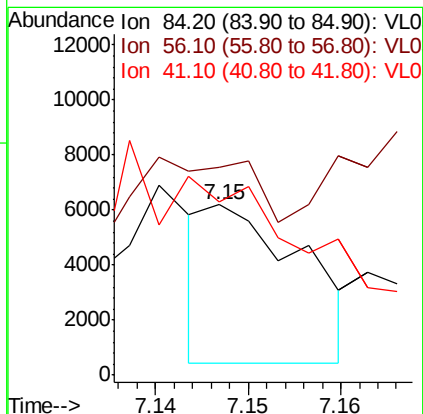
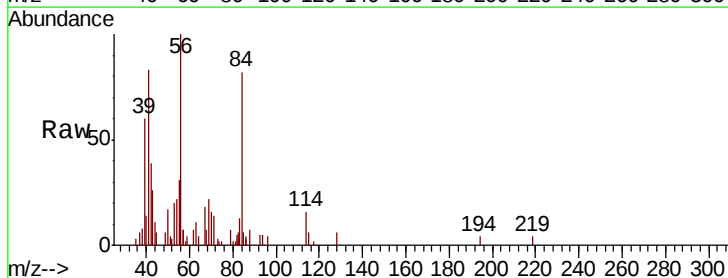
Instrument :
MSVOA_L
ClientSampled :

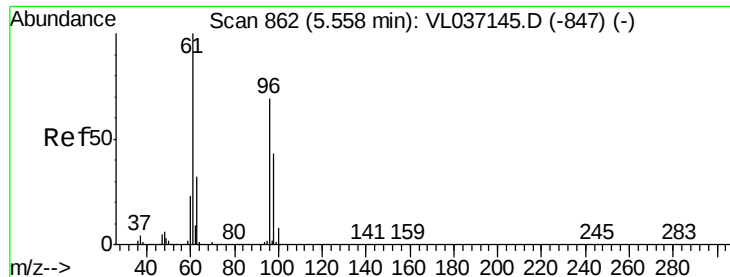
Tot Ion: 83 Resp: 191220
Ion Ratio Lower Upper
83 100
85 58.2 52.6 78.8



#30
Cyclohexane
Concen: 0.029 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 84 Resp: 4164
Ion Ratio Lower Upper
84 100
56 0.0 103.9 155.9#
41 0.0 66.5 99.7#



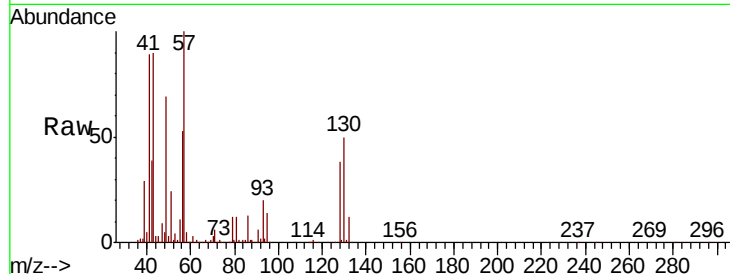


#31

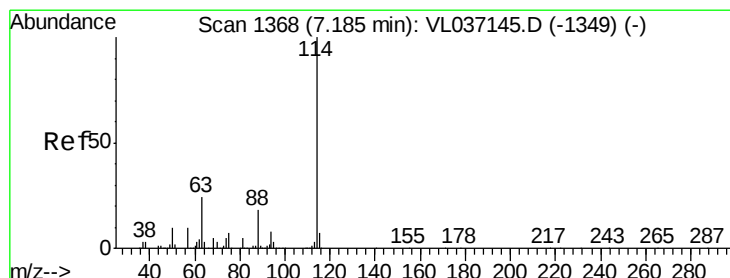
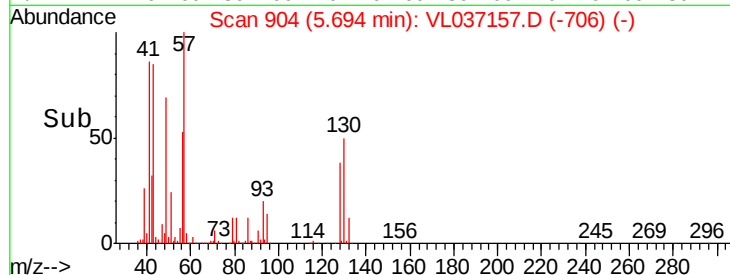
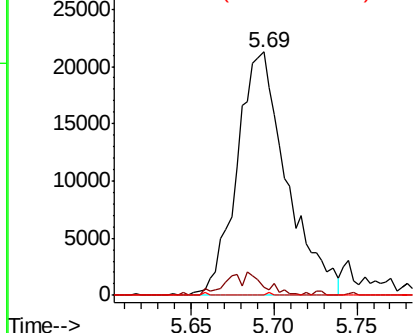
cis-1,2-Dichloroethene
 Concen: 0.280 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.14 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
61	100		
96	3.4	55.3	82.9#
98	0.0	34.7	52.1#



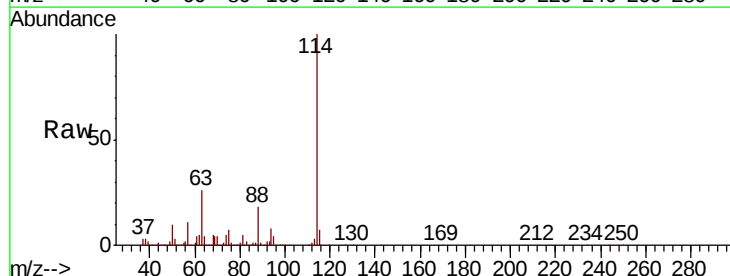
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



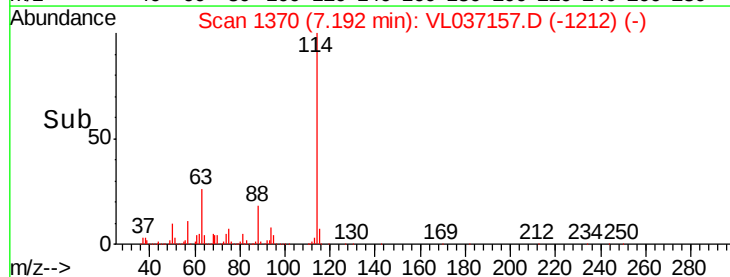
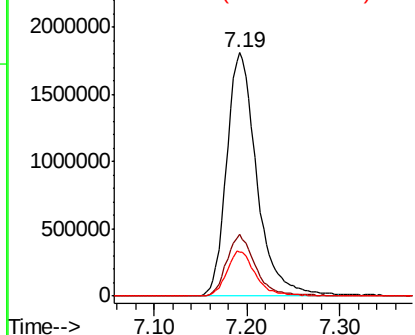
#33

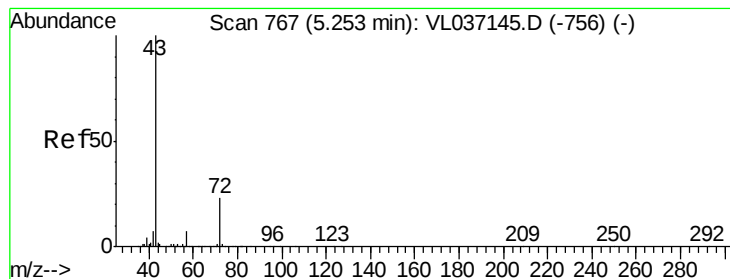
1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.8	29.6
88	17.9	14.3	21.5



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





#34

2-Butanone

Concen: 2.421 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

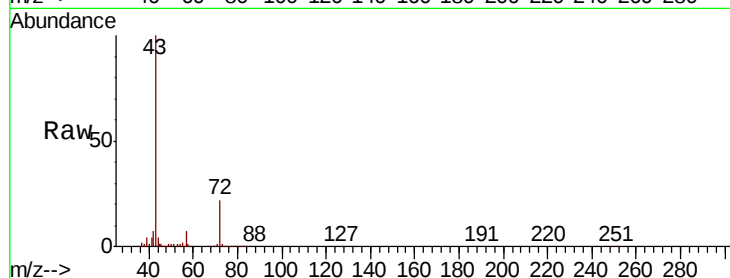
ClientSampleId :

Tot Ion: 43 Resp: 372292

Ion Ratio Lower Upper

43 100

72 24.7 18.6 28.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

200000

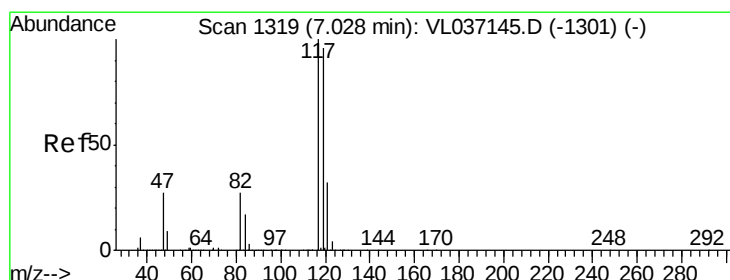
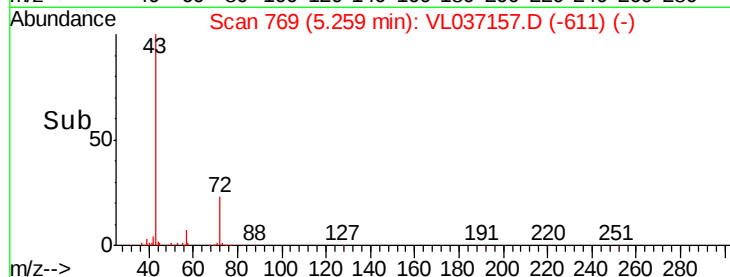
150000

100000

50000

0

Time-->



#35

Carbon Tetrachloride

Concen: 0.027 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

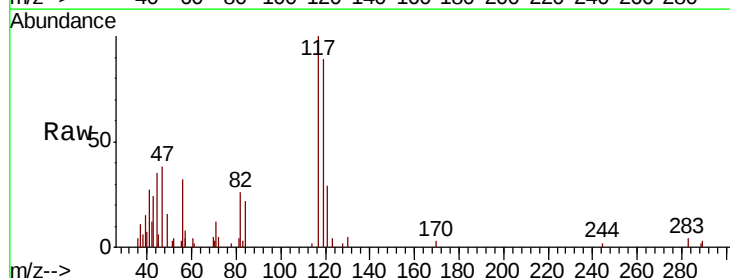
Tgt Ion: 117 Resp: 6852

Ion Ratio Lower Upper

117 100

119 79.4 77.0 115.4

121 29.3 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

12000

10000

8000

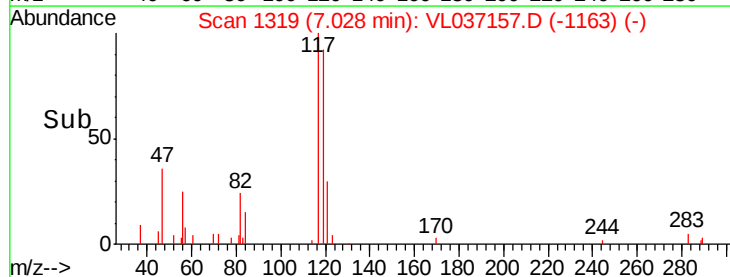
6000

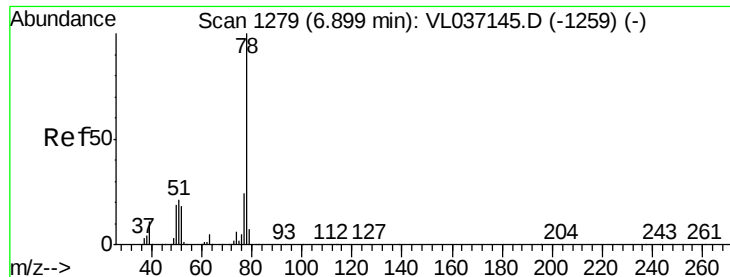
4000

2000

0

Time-->





#36

Benzene

Concen: 0.346 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

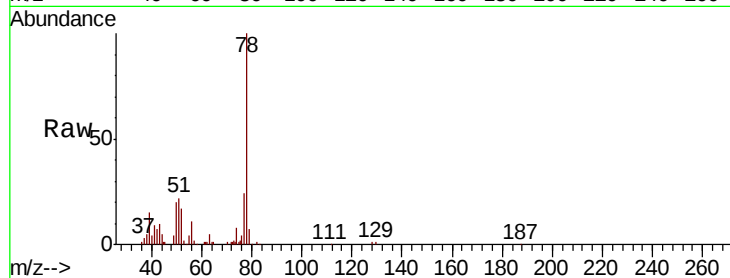
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 78 Resp: 112329

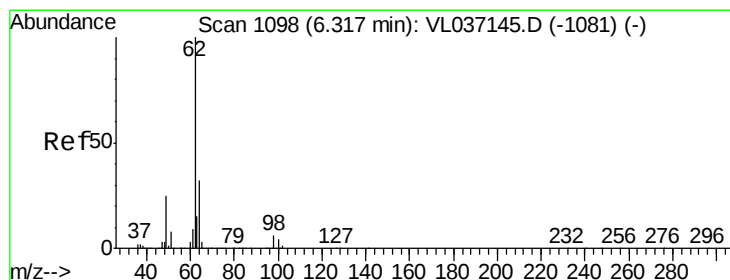
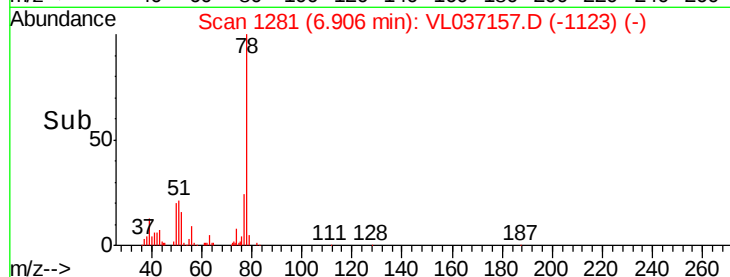
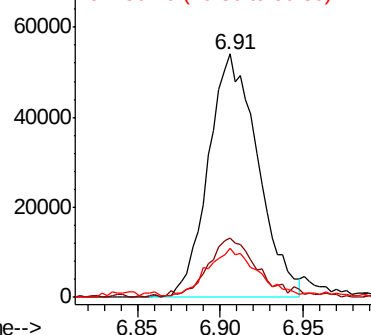
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.5	29.3
50	19.3	15.5	23.3



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



#37

1,2-Dichloroethane

Concen: 0.031 ppbv

RT: 6.32 min Scan# 1099

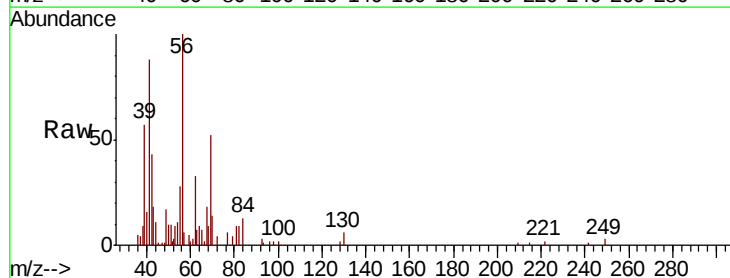
Delta R.T. 0.00 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

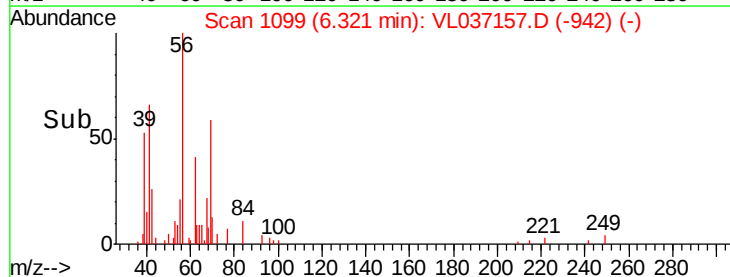
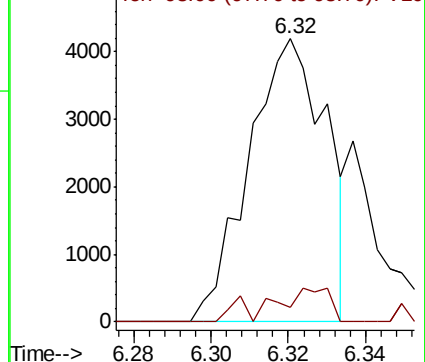
Tgt Ion: 62 Resp: 5822

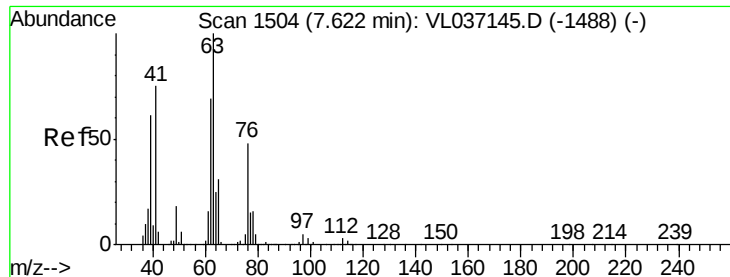
Ion	Ratio	Lower	Upper
62	100		
98	9.6	5.1	7.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 7.877 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.43 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

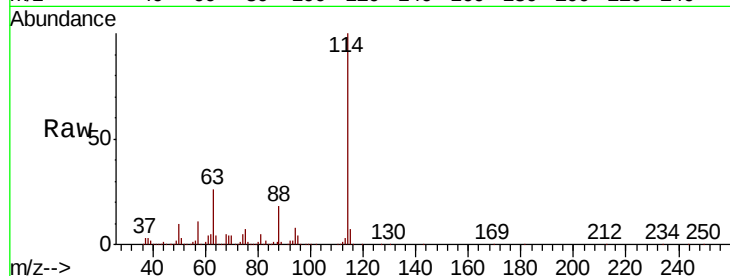
Tot Ion: 63 Resp: 977126

Ion Ratio Lower Upper

63 100

41 0.0 60.0 90.0#

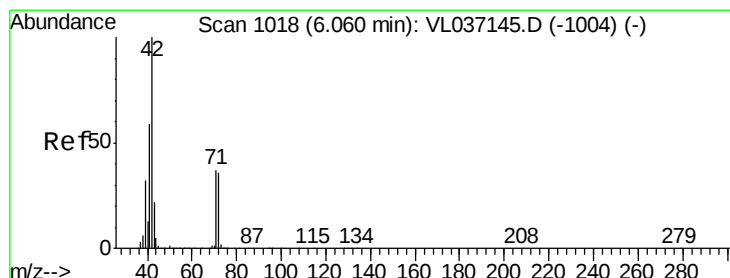
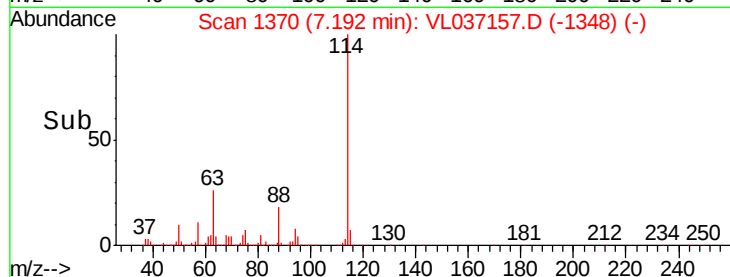
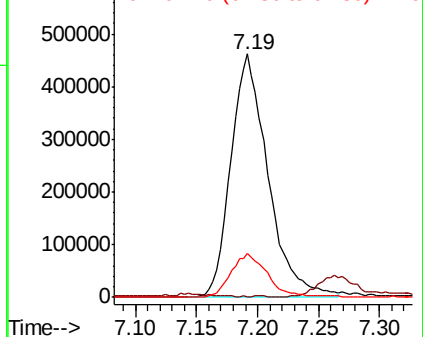
62 18.0 55.4 83.0#



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



#41

Tetrahydrofuran

Concen: 0.158 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

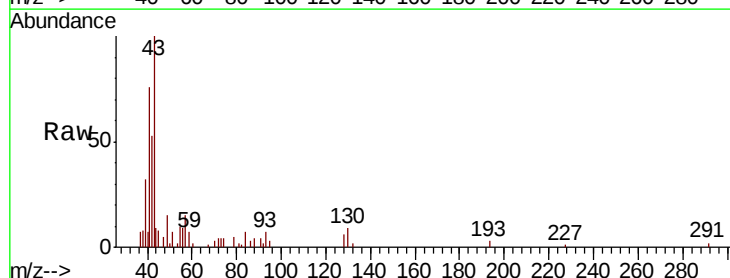
Tgt Ion: 42 Resp: 11828

Ion Ratio Lower Upper

42 100

72 65.6 31.7 47.5#

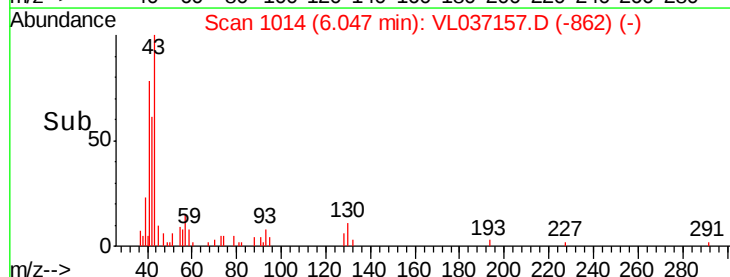
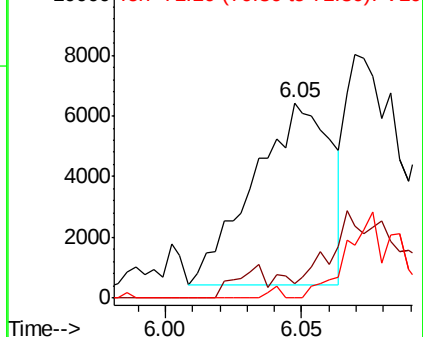
71 40.9 31.0 46.6

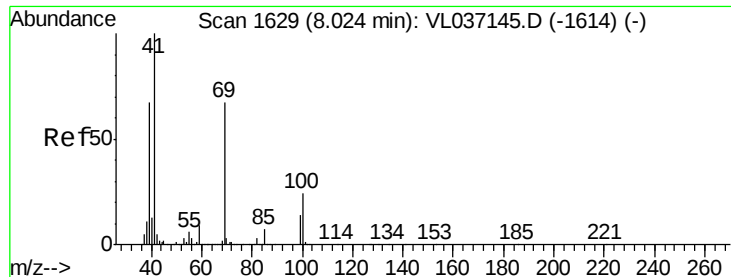


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0

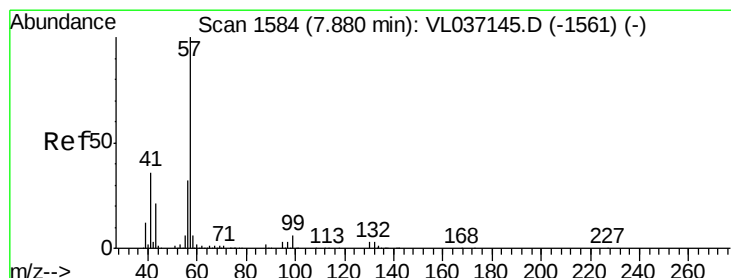
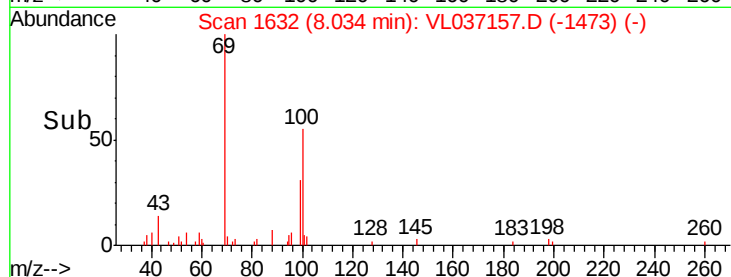
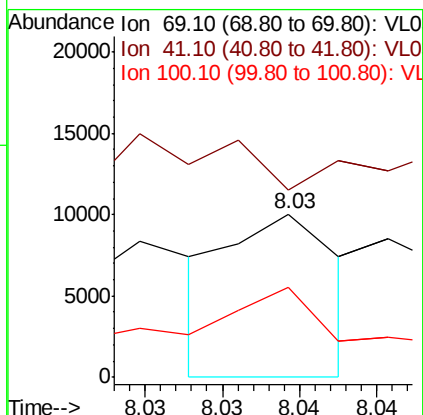
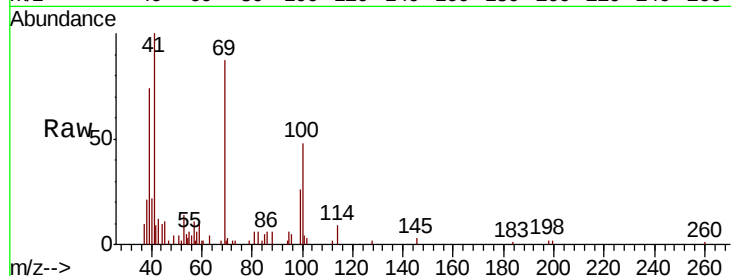




#43
Methvl Methacrylate
Concen: 0.045 ppbv
RT: 8.03 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

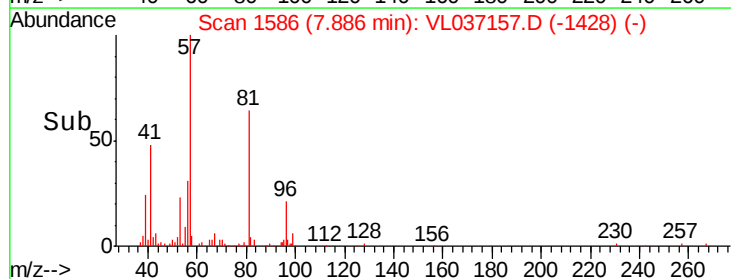
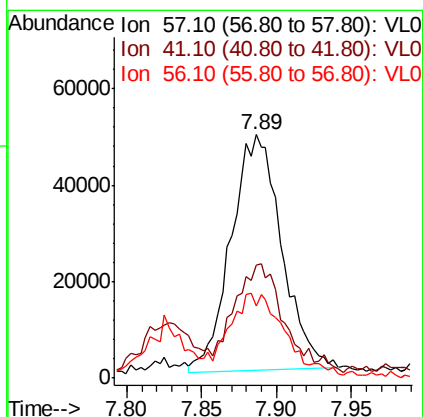
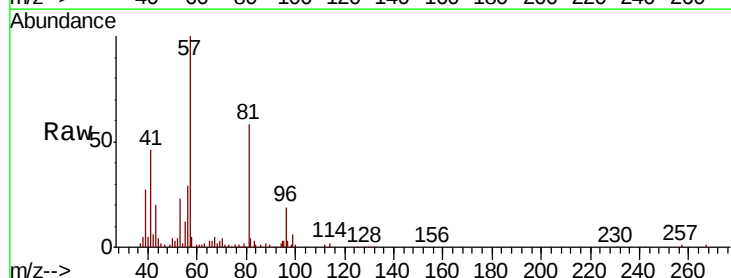
Instrument :
MSVOA_L
ClientSampleId :

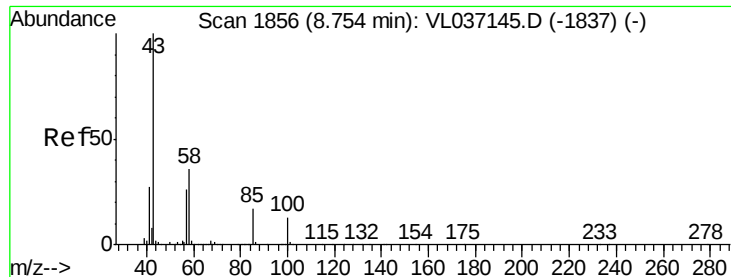
Tot Ion: 69 Resp: 4967
Ion Ratio Lower Upper
69 100
41 0.0 117.7 176.5#
100 157.6 27.9 41.9#



#44
2,2,4-Trimethylpentane
Concen: 0.212 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 57 Resp: 115066
Ion Ratio Lower Upper
57 100
41 45.9 28.1 42.1#
56 38.4 25.4 38.2#

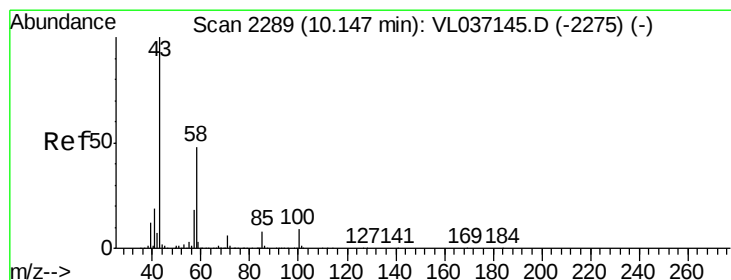
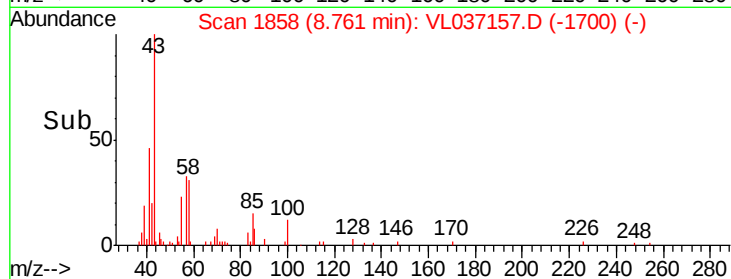
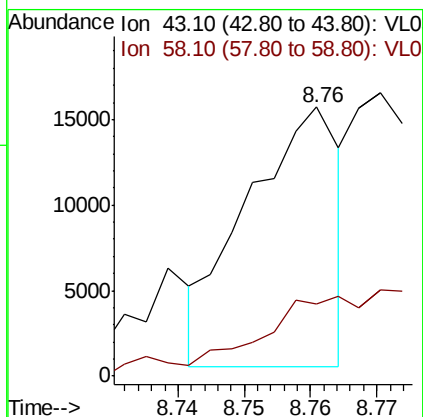
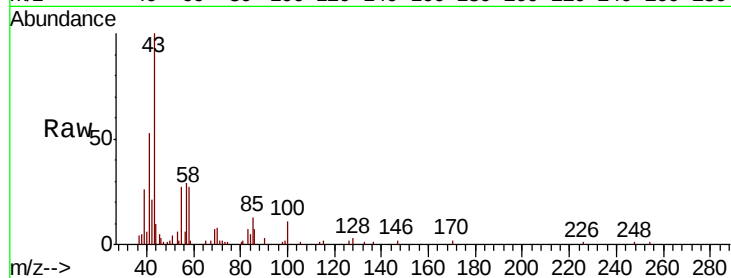




#50
4-Methyl-2-Pentanone
Concen: 0.065 ppbv
RT: 8.76 min Scan# 1856
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

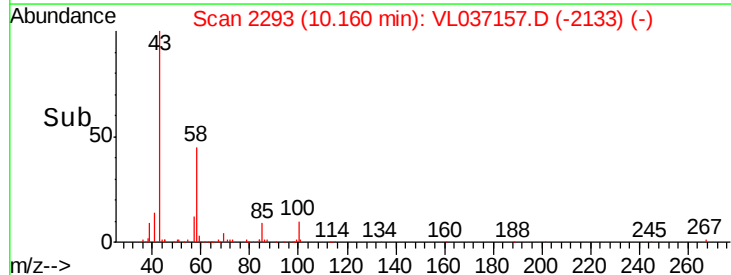
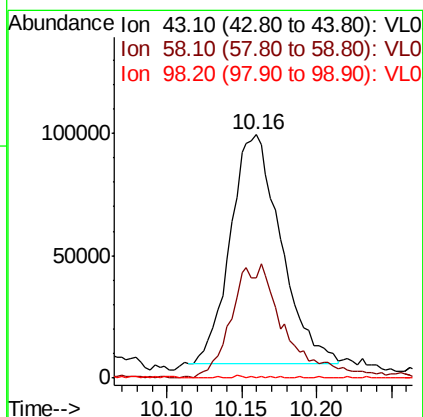
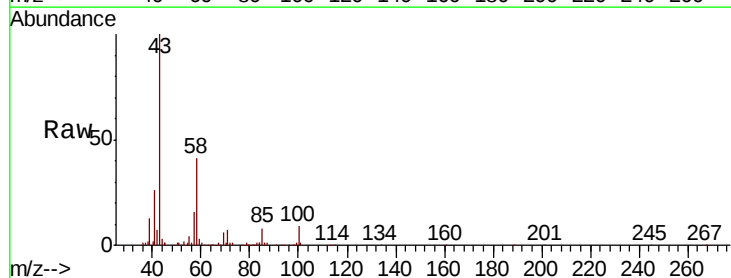
Instrument :
MSVOA_L
ClientSampled :

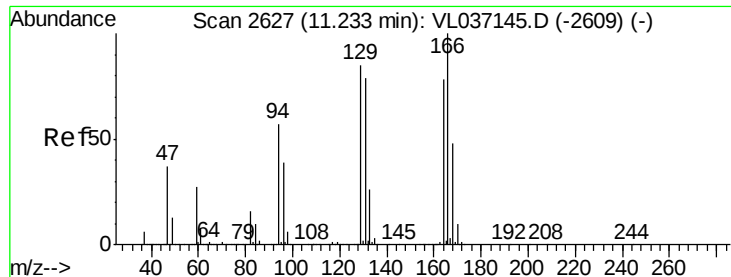
Tot Ion: 43 Resp: 14806
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#



#51
2-Hexanone
Concen: 1.944 ppbv
RT: 10.16 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 43 Resp: 219490
Ion Ratio Lower Upper
43 100
58 52.5 40.1 60.1
98 0.8 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.705 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 94741

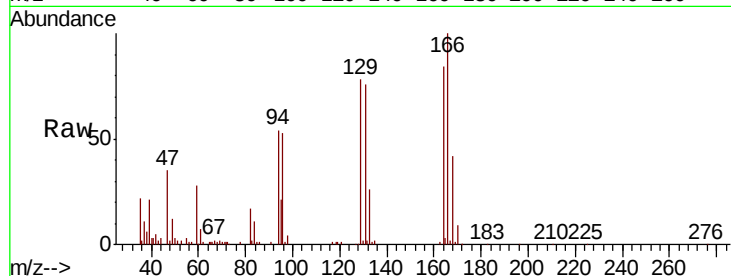
Ion Ratio Lower Upper

164 100

166 119.2 102.6 154.0

129 92.2 87.4 131.2

131 91.2 81.4 122.2

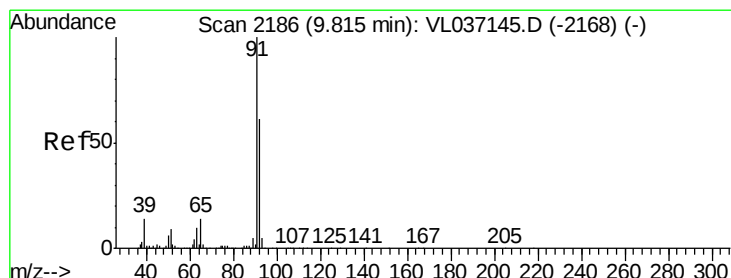
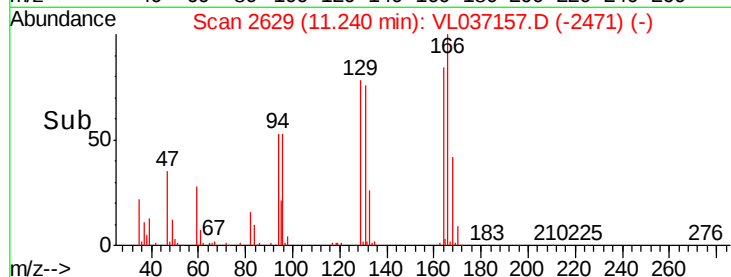
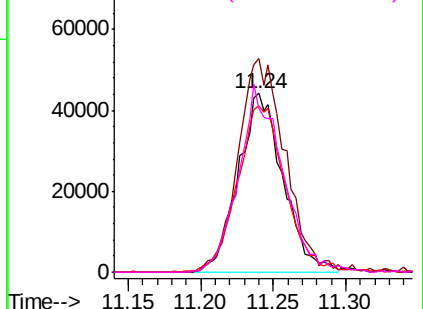


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 1.301 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.01 min

Lab File: VL037157.D

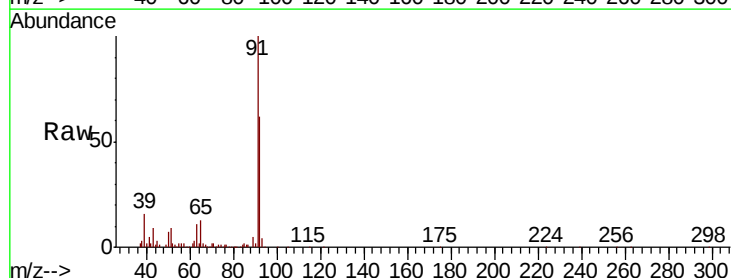
Acq: 15 Jun 2021 15:07

Tgt Ion: 91 Resp: 502559

Ion Ratio Lower Upper

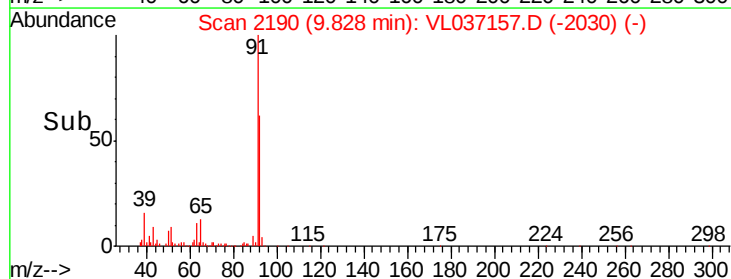
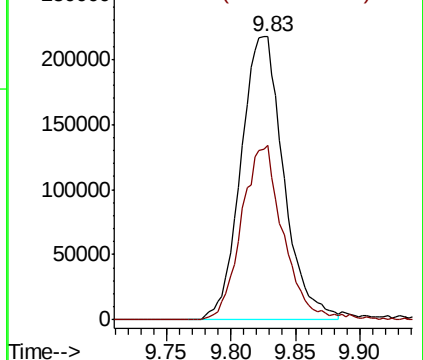
91 100

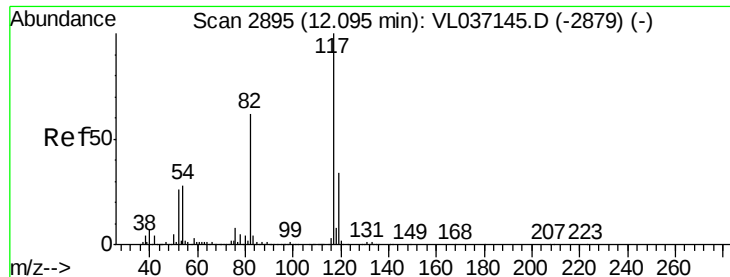
92 60.4 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

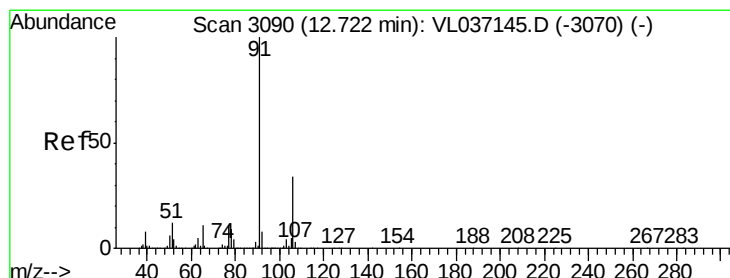
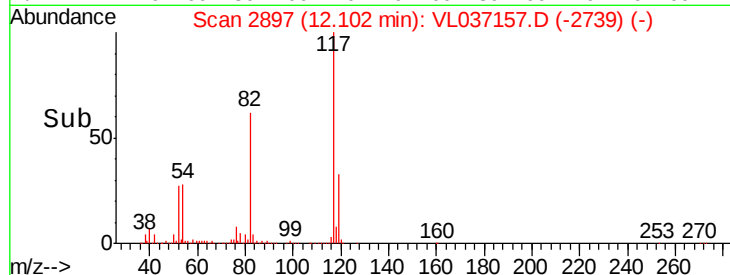
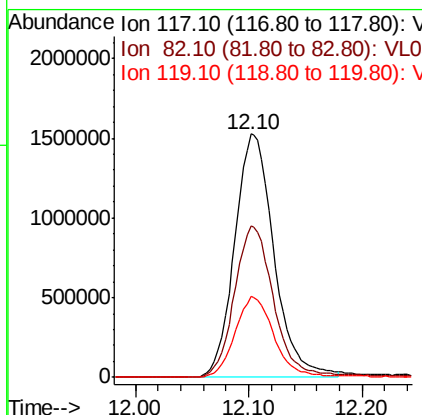
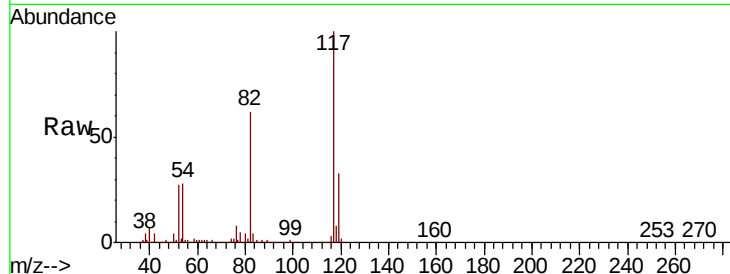




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

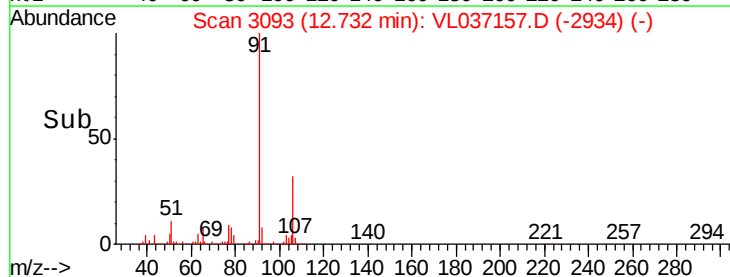
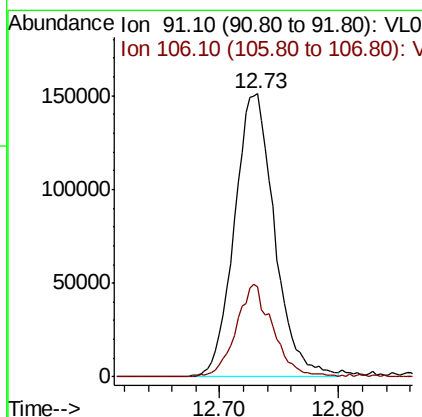
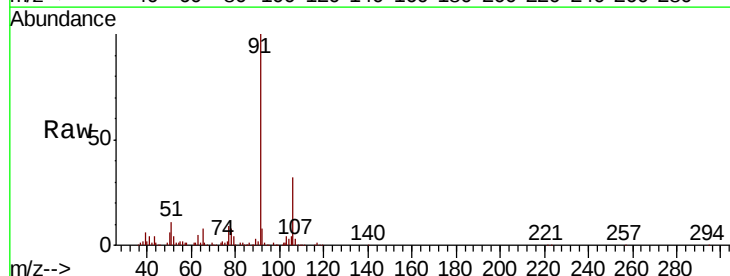
Instrument :
MSVOA_L
ClientSampleId :

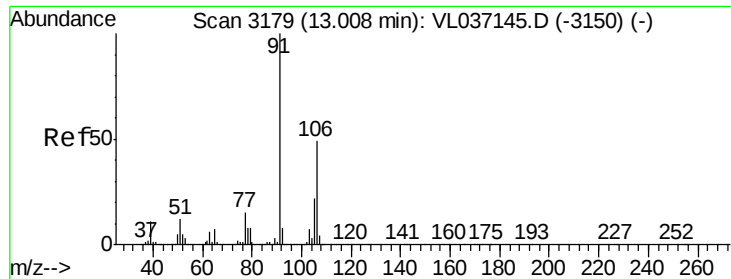
Tot Ion:117 Resp: 3686196
Ion Ratio Lower Upper
117 100
82 63.4 50.6 76.0
119 33.9 27.1 40.7



#58
Ethyl Benzene
Concen: 0.705 ppbv
RT: 12.73 min Scan# 3093
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 91 Resp: 352114
Ion Ratio Lower Upper
91 100
106 31.7 26.8 40.2

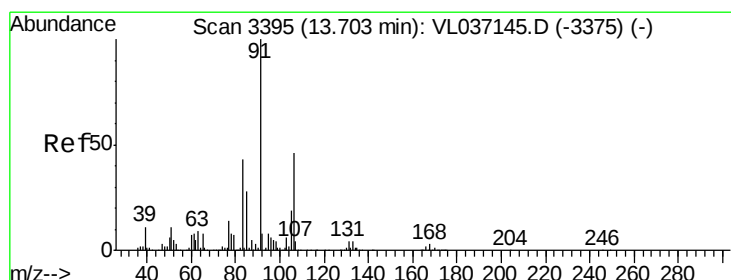
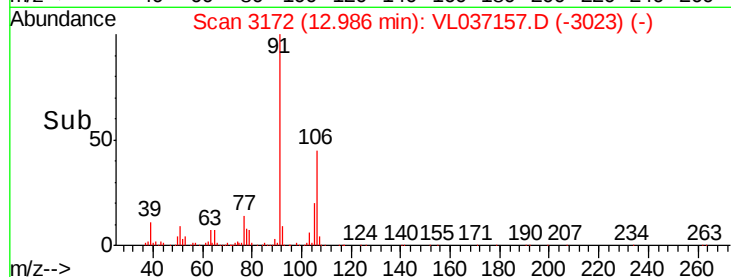
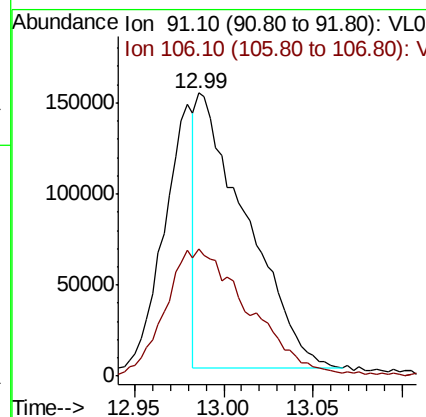
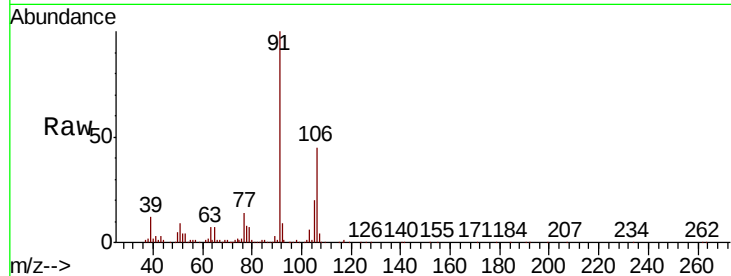




#59
m/p-Xylene
Concen: 0.687 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.02 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

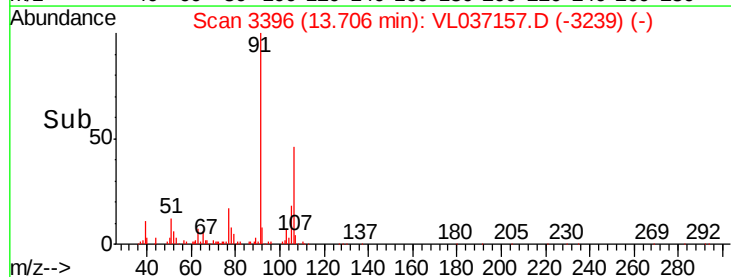
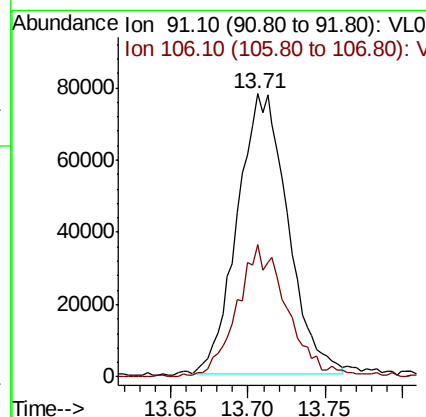
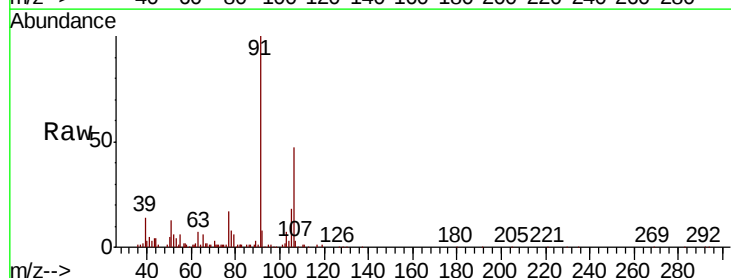
Instrument :
MSVOA_L
ClientSampleId :

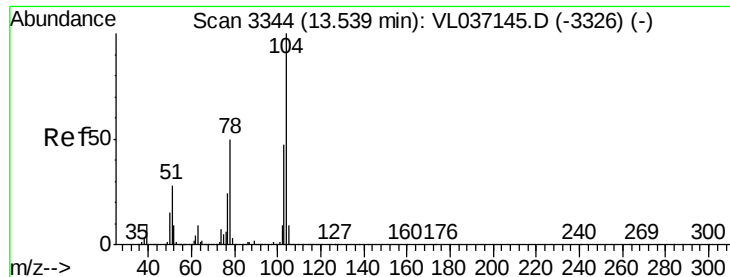
Tot Ion: 91 Resp: 291340
Ion Ratio Lower Upper
91 100
106 78.9 36.9 55.3#



#60
o-Xylene
Concen: 0.430 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 91 Resp: 175179
Ion Ratio Lower Upper
91 100
106 47.7 23.1 69.3





#61

Stvrene

Concen: 0.094 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

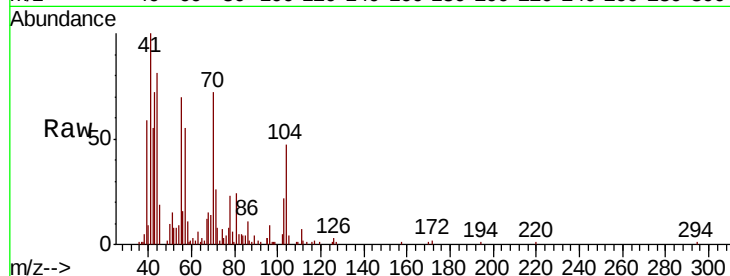
Tot Ion:104 Resp: 20192

Ion Ratio Lower Upper

104 100

78 90.3 40.9 61.3#

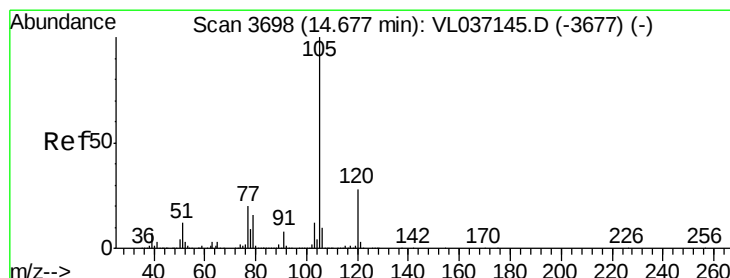
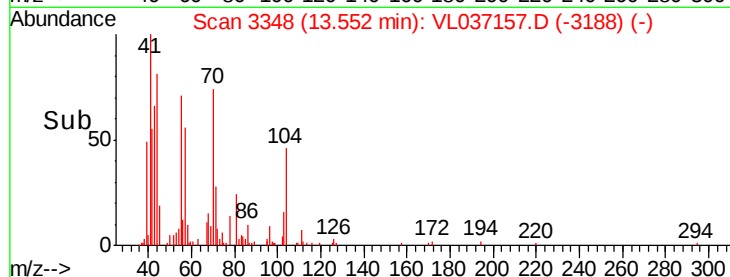
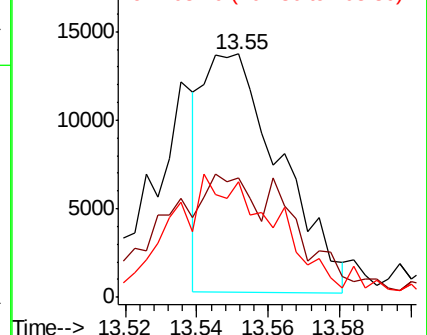
103 76.5 38.6 58.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.023 ppbv

RT: 14.68 min Scan# 3700

Delta R.T. 0.01 min

Lab File: VL037157.D

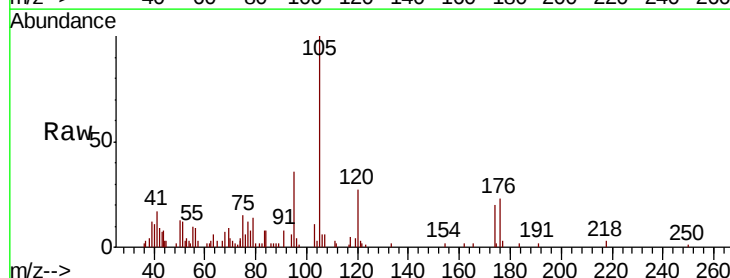
Acq: 15 Jun 2021 15:07

Tgt Ion:105 Resp: 13644

Ion Ratio Lower Upper

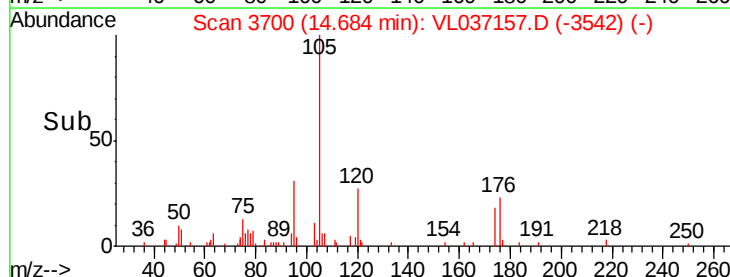
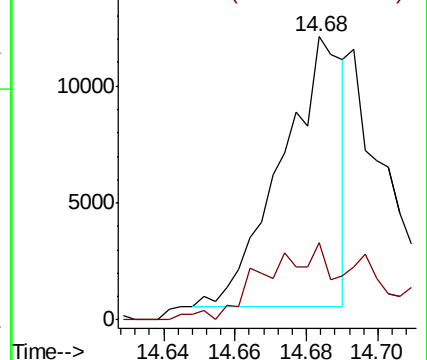
105 100

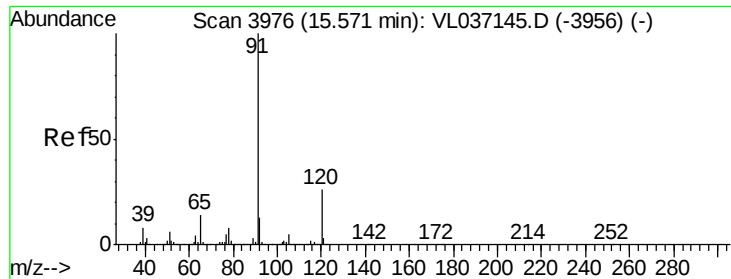
120 51.2 21.8 32.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

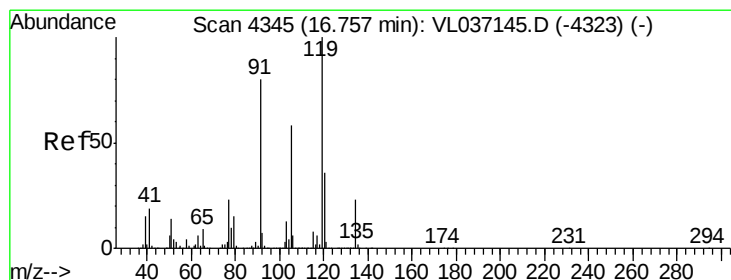
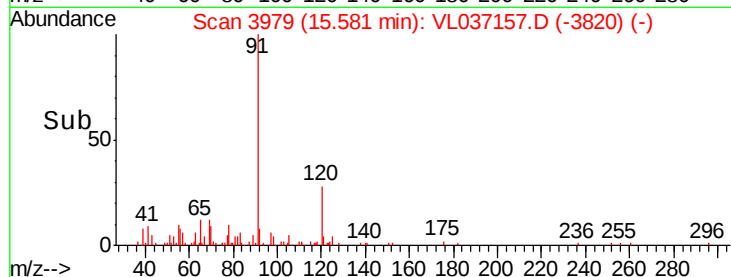
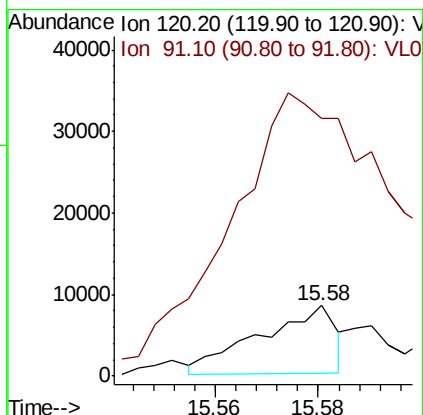
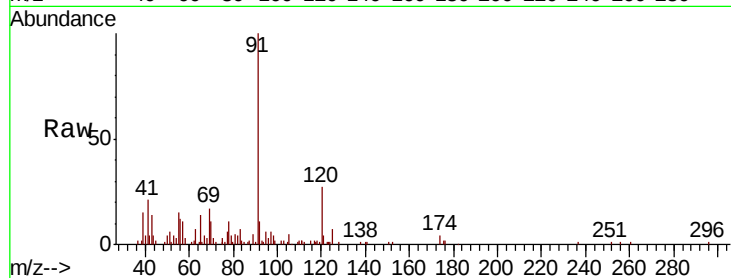




#64
n-propylbenzene
Concen: 0.058 ppbv
RT: 15.58 min Scan# 3979
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

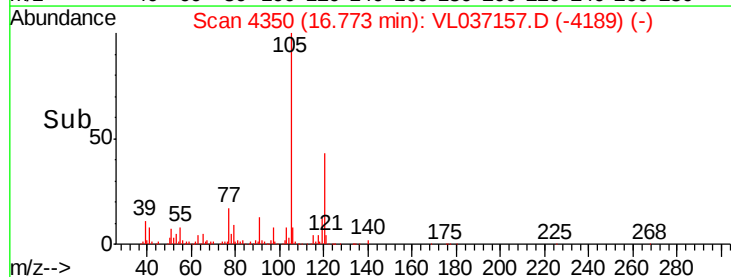
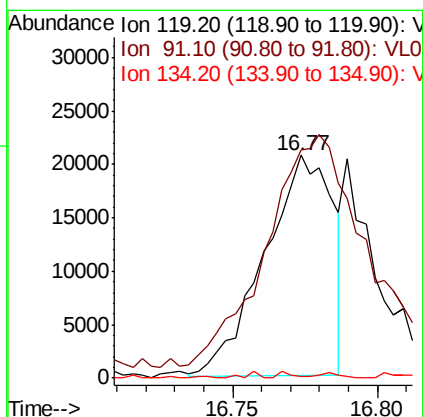
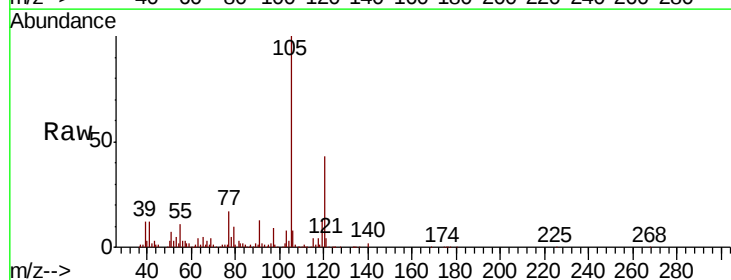
Instrument :
MSVOA_L
ClientSampleId :

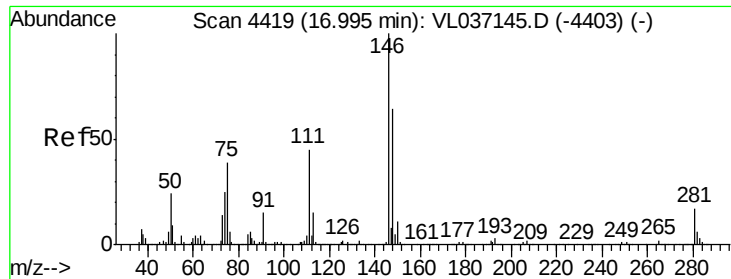
Tot Ion:120 Resp: 8550
Ion Ratio Lower Upper
120 100
91 1068.6 342.2 513.4#



#65
tert-Butylbenzene
Concen: 0.064 ppbv
RT: 16.77 min Scan# 4350
Delta R.T. 0.02 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion:119 Resp: 33798
Ion Ratio Lower Upper
119 100
91 170.2 62.8 94.2#
134 2.4 16.5 24.7#

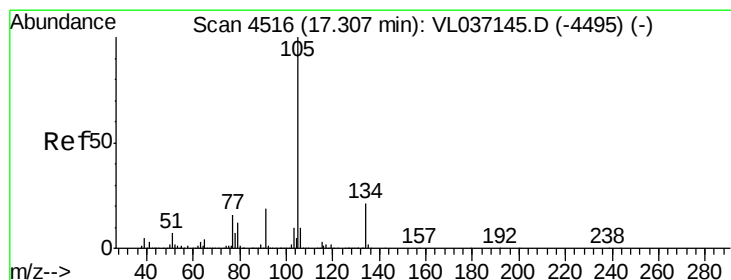
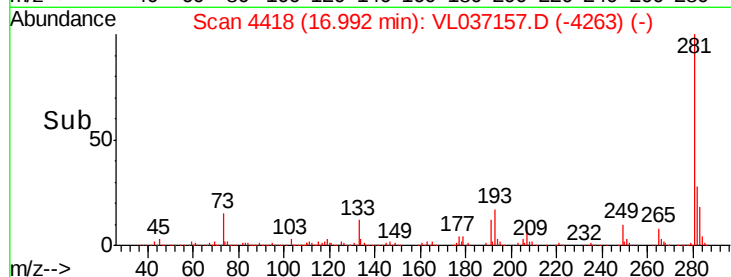
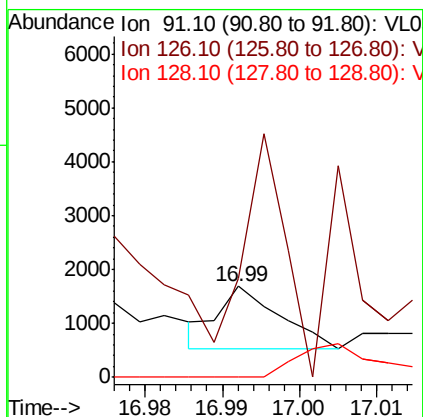
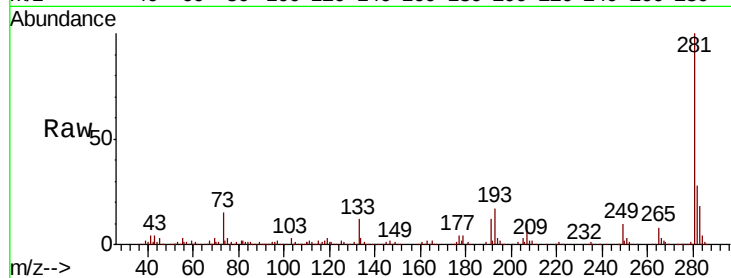




#66
Benzyl Chloride
Concen: 0.028 ppbv
RT: 16.99 min Scan# 4418
Delta R.T. -0.00 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

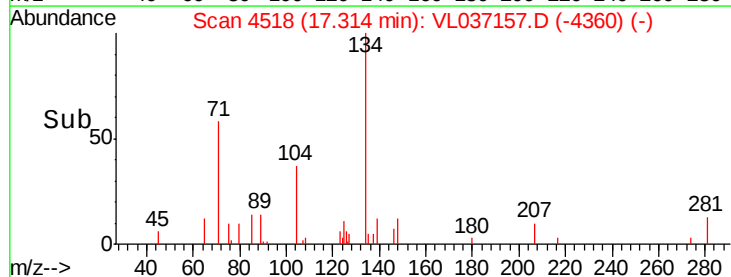
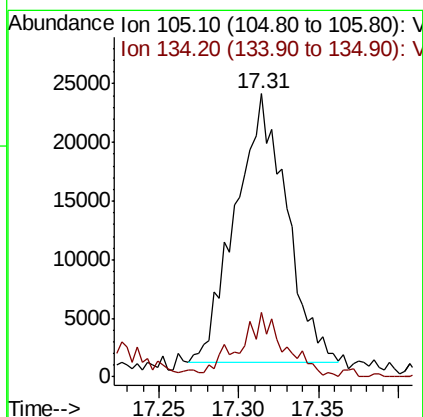
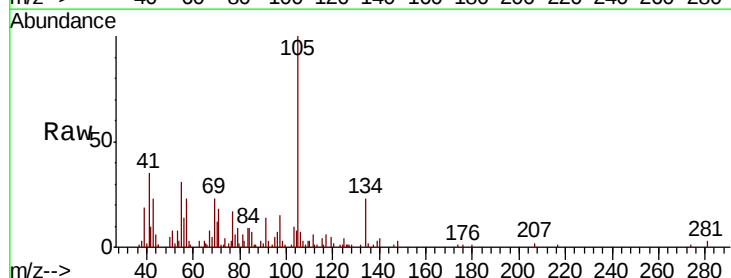
Instrument :
MSVOA_L
ClientSampleId :

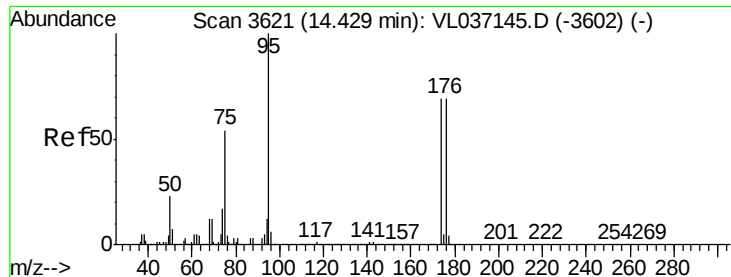
Tot Ion: 91 Resp: 640
Ion Ratio Lower Upper
91 100
126 974.2 16.4 24.6#
128 108.0 5.7 8.5#



#67
sec-Butylbenzene
Concen: 0.071 ppbv
RT: 17.31 min Scan# 4518
Delta R.T. 0.01 min
Lab File: VL037157.D
Acq: 15 Jun 2021 15:07

Tgt Ion: 105 Resp: 49873
Ion Ratio Lower Upper
105 100
134 22.0 16.0 24.0

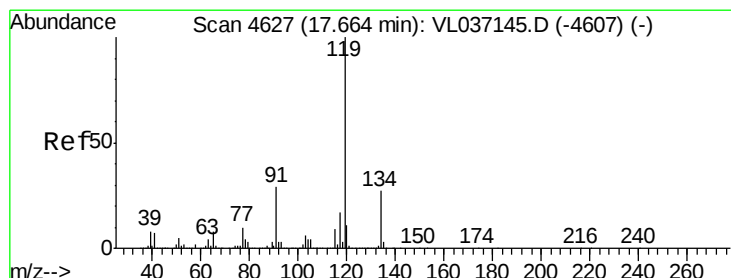
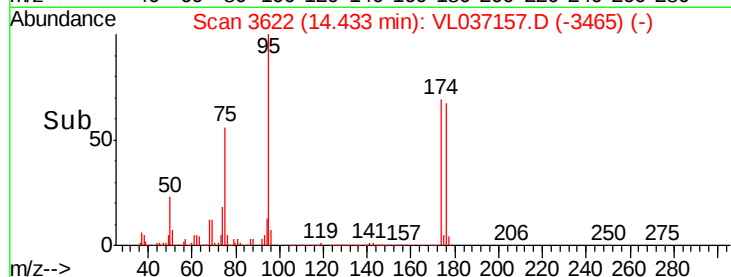
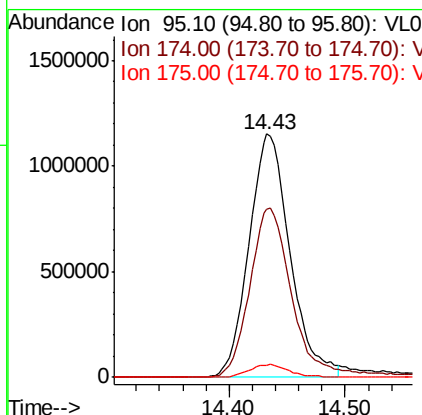
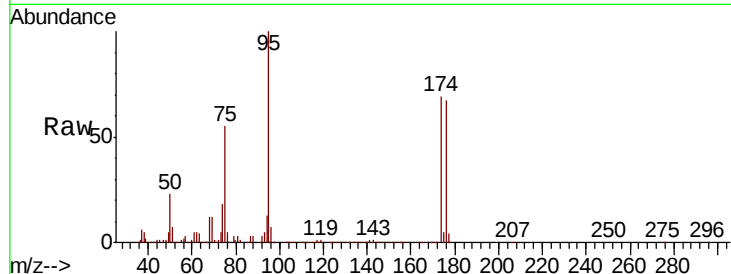




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.451 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. 0.00 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

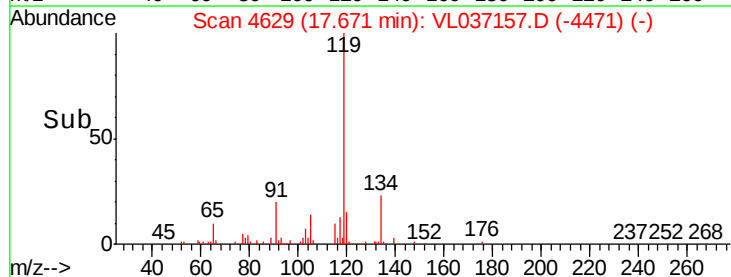
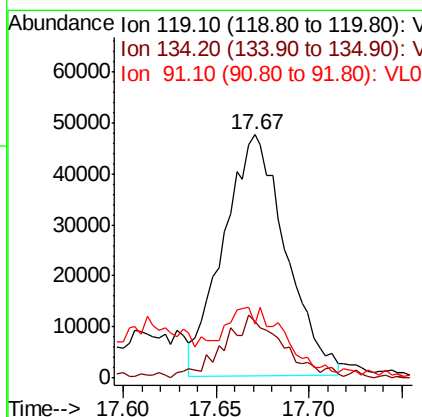
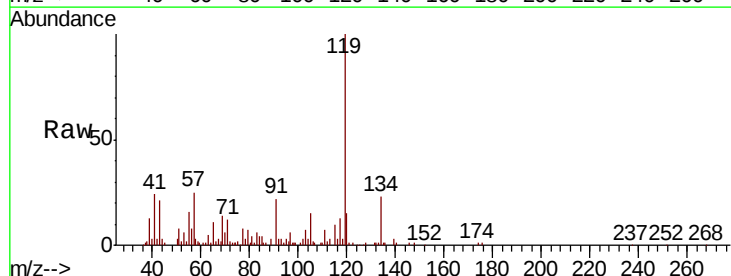
Instrument :
 MSVOA_L
 ClientSampleId :

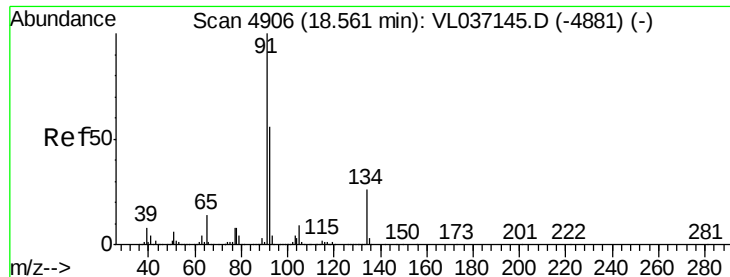
Tot Ion: 95 Resp: 2837692
 Ion Ratio Lower Upper
 95 100
 174 73.7 57.6 86.4
 175 5.4 4.4 6.6



#69
 p-Isopropyltoluene
 Concen: 0.189 ppbv
 RT: 17.67 min Scan# 4629
 Delta R.T. 0.01 min
 Lab File: VL037157.D
 Acq: 15 Jun 2021 15:07

Tgt Ion: 119 Resp: 110681
 Ion Ratio Lower Upper
 119 100
 134 26.1 21.2 31.8
 91 28.9 22.9 34.3





#70

n-Butylbenzene

Concen: 0.143 ppbv

RT: 18.57 min Scan# 4909

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

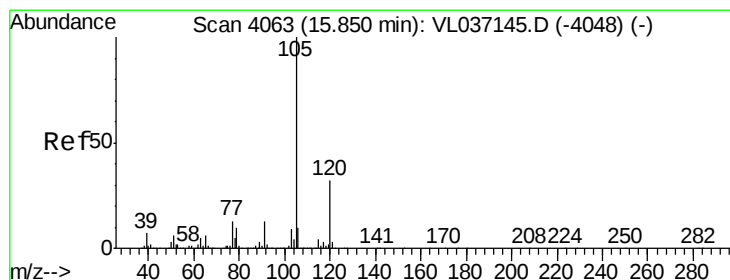
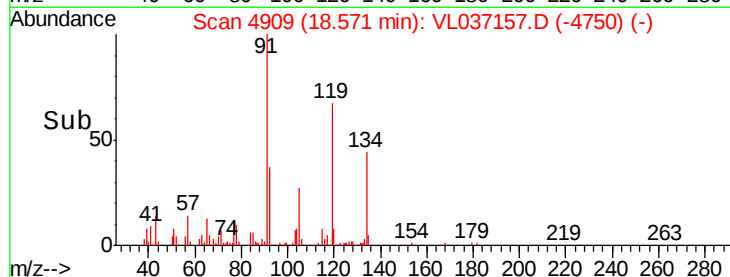
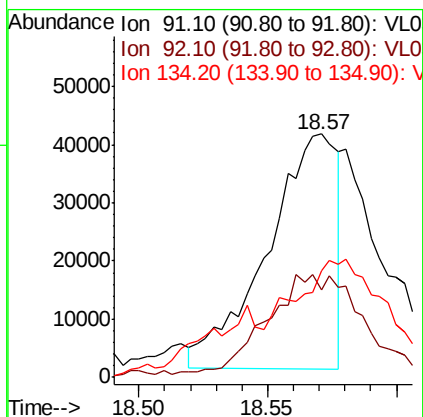
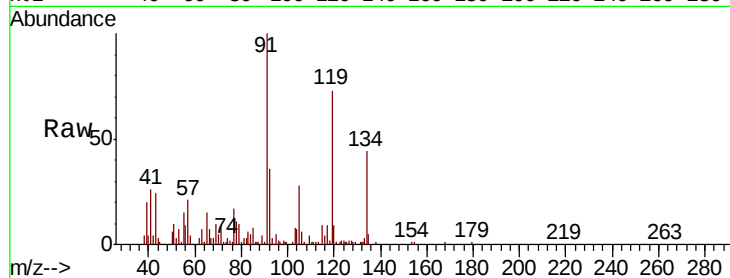
Tot Ion: 91 Resp: 76449

Ion Ratio Lower Upper

91 100

92 67.6 44.0 66.0#

134 0.0 20.4 30.6#



#72

4-Ethyltoluene

Concen: 0.092 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Tgt Ion: 105 Resp: 43618

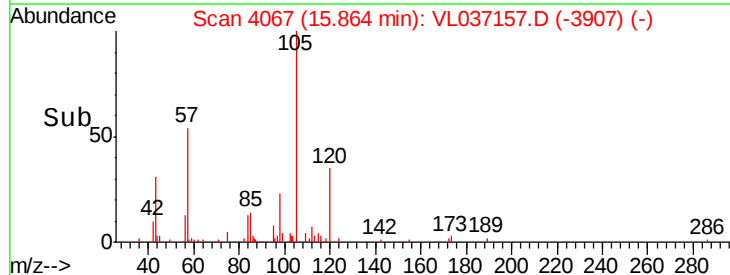
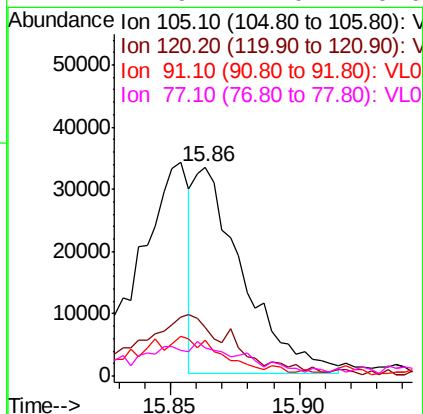
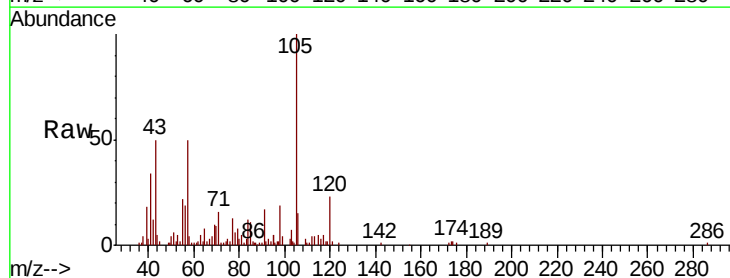
Ion Ratio Lower Upper

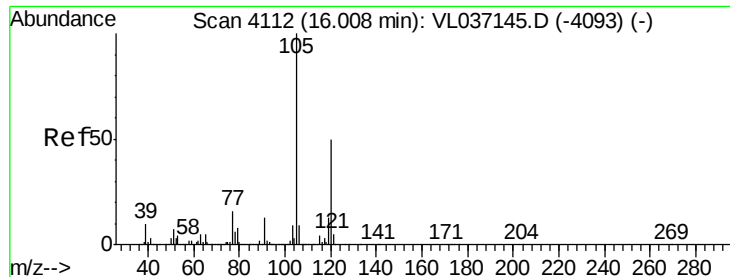
105 100

120 59.0 25.1 37.7#

91 0.0 10.3 15.5#

77 27.9 11.0 16.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.213 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

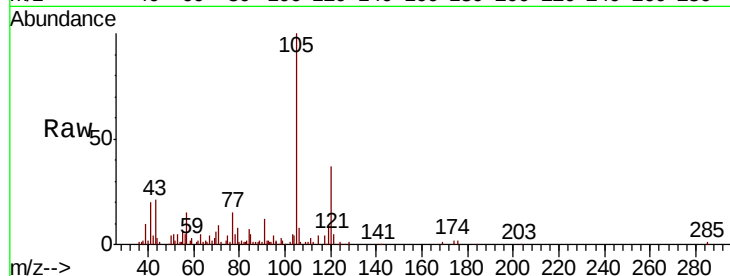
ClientSampled :

Tot Ion:105 Resp: 95795

Ion Ratio Lower Upper

105 100

120 38.1 39.7 59.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.01

50000

40000

30000

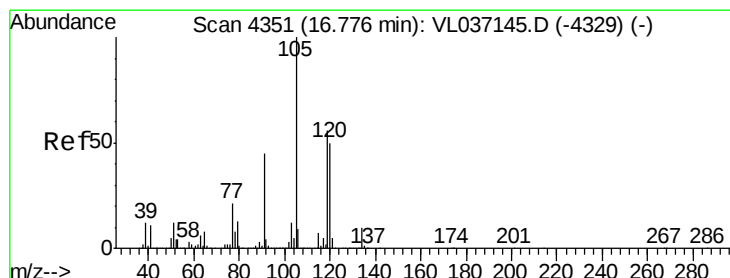
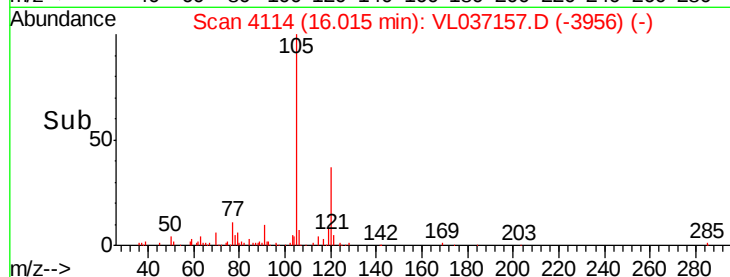
20000

10000

0

15.95 16.00 16.05

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.922 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.00 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Tgt Ion:105 Resp: 420963

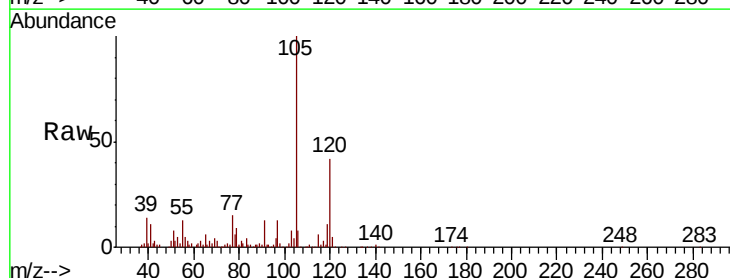
Ion Ratio Lower Upper

105 100

120 42.1 39.7 59.5

91 11.8 35.8 53.8#

77 13.3 16.7 25.1#



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

250000

200000

150000

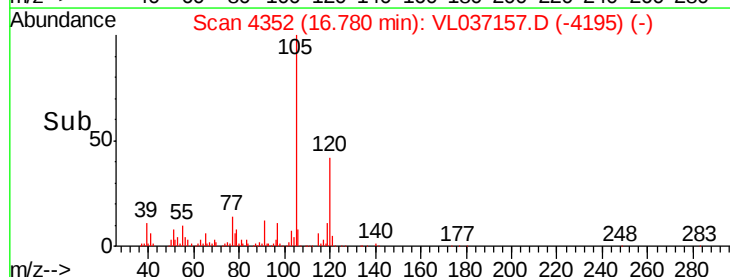
100000

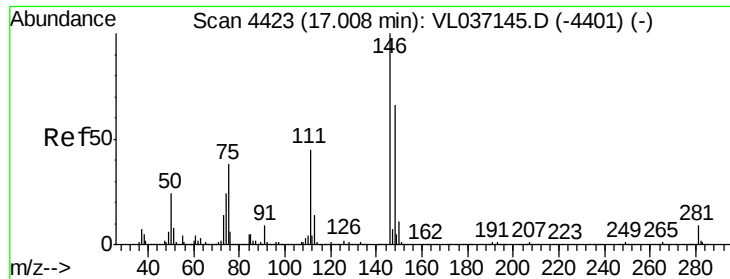
50000

0

16.70 16.75 16.80 16.85

Time-->





#75

1,3-Dichlorobenzene

Concen: 0.660 ppbv

RT: 17.15 min Scan# 4468

Delta R.T. 0.14 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

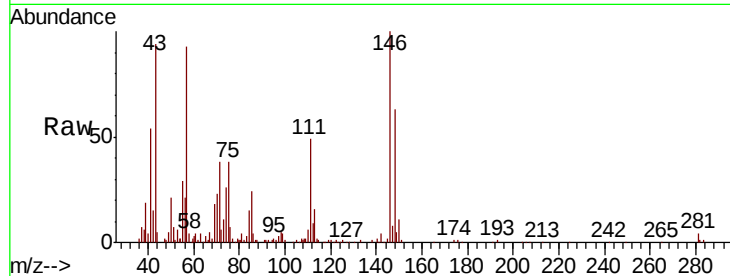
Tot Ion:146 Resp: 185603

Ion Ratio Lower Upper

146 100

111 50.5 22.4 67.2

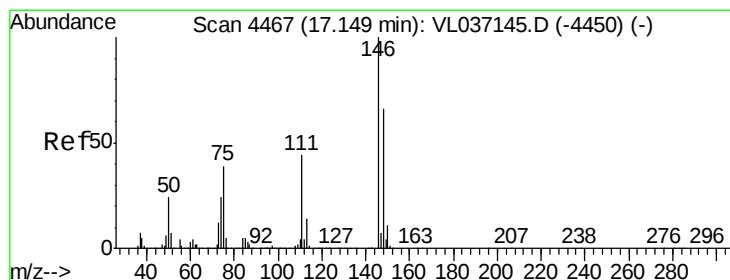
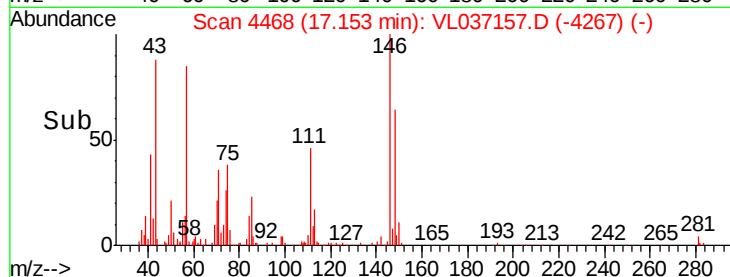
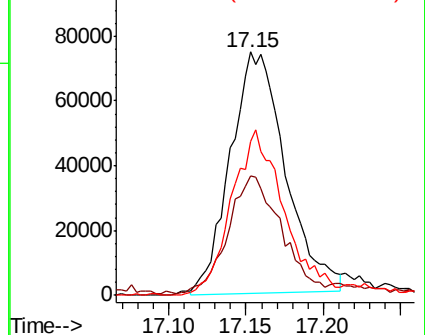
148 69.0 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.664 ppbv

RT: 17.15 min Scan# 4468

Delta R.T. 0.00 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

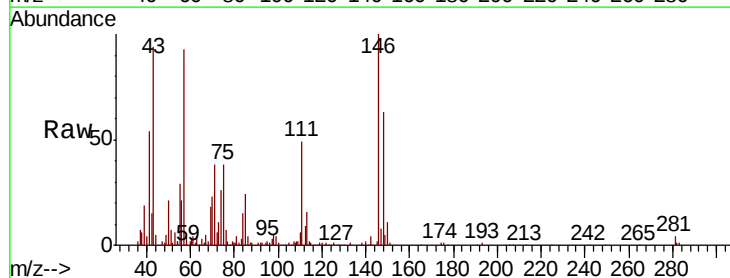
Tgt Ion:146 Resp: 185603

Ion Ratio Lower Upper

146 100

111 51.2 21.9 65.5

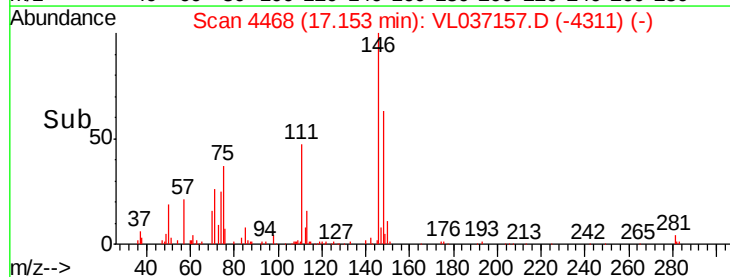
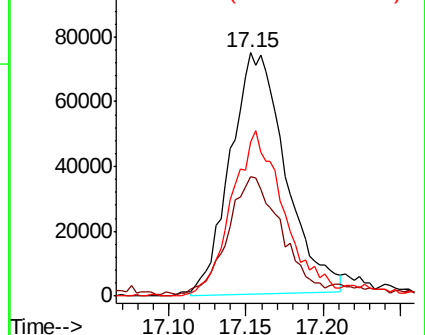
148 69.7 32.4 97.0

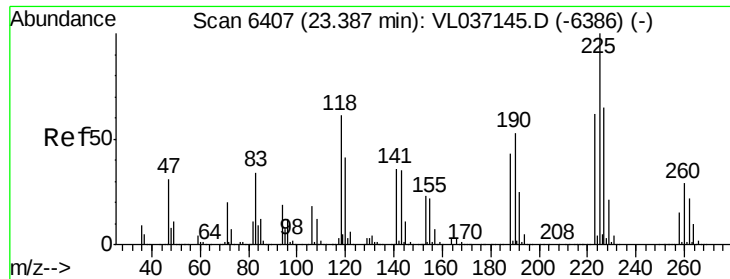


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.030 ppbv

RT: 23.39 min Scan# 6409

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampled :

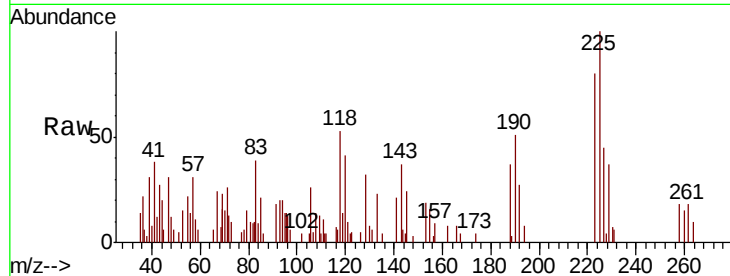
Tot Ion:225 Resp: 5934

Ion Ratio Lower Upper

225 100

223 157.9 52.2 78.2#

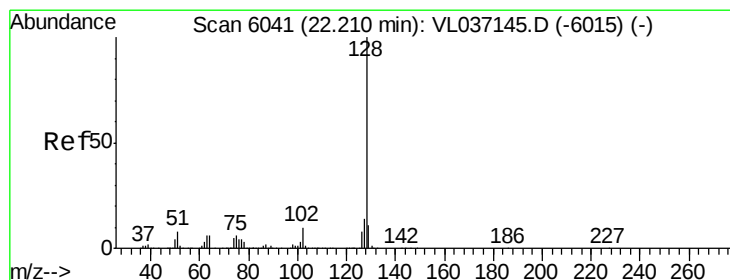
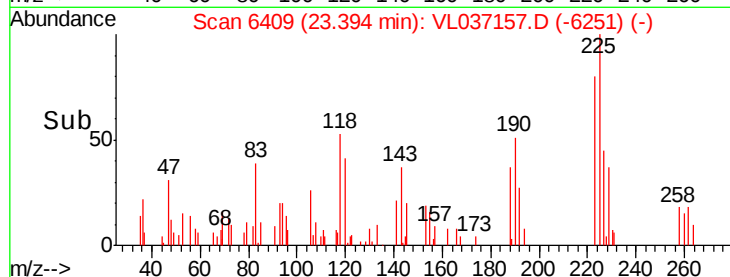
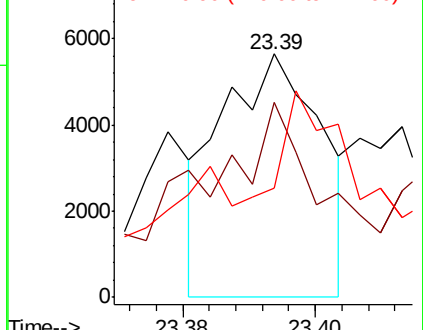
227 162.3 51.5 77.3#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.676 ppbv

RT: 22.22 min Scan# 6044

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

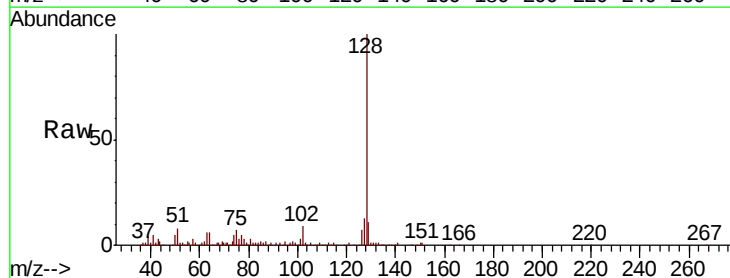
Tgt Ion:128 Resp: 185865

Ion Ratio Lower Upper

128 100

127 12.5 10.9 16.3

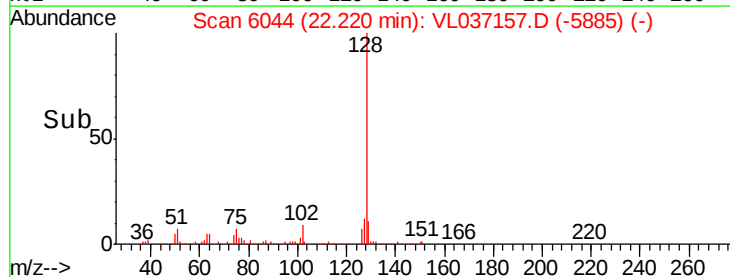
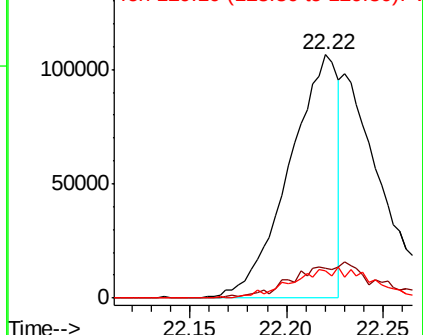
129 11.0 9.0 13.4

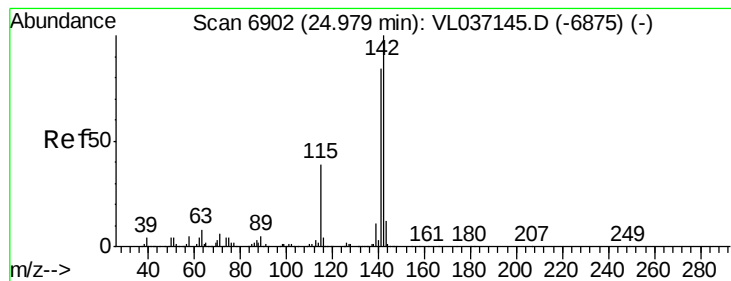


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.171 ppbv

RT: 24.99 min Scan# 6905

Delta R.T. 0.01 min

Lab File: VL037157.D

Acq: 15 Jun 2021 15:07

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:142 Resp: 11400

Ion Ratio Lower Upper

142 100

141 117.9 66.7 100.1#

115 65.3 32.2 48.2#

