

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036649.D
 Acq On : 2 Apr 2021 17:47
 Operator : SY/AP
 Sample : M1841-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 03 02:57:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1297712	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3470962	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3105998	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2457462	9.93	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.95	51	1560489	6.436	ppbv # 60
4) Chloromethane	3.13	50	24896	0.291	ppbv # 91
7) Chloroethane	3.55	64	1104	0.036	ppbv # 38
9) Propene	3.20	41	5465328	70.707	ppbv # 99
10) Heptane	8.14	43	8930040	45.350	ppbv # 95
11) Trichlorofluoromethane	3.94	101	55785	0.259	ppbv # 98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3219	0.023	ppbv # 11
13) Ethanol	3.61	45	2973304	323.024	ppbv # 94
15) Acetone	3.83	43	9368360	73.348	ppbv # 1
16) 1,3-Butadiene	3.34	39	14193841	159.620	ppbv # 15
17) tert-Butyl alcohol	4.30	59	978131	8.797	ppbv # 72
19) Isopropyl Alcohol	3.97	45	9233045	131.411	ppbv # 1
20) Methylene Chloride	4.34	84	2711403	45.340	ppbv # 95
21) Allyl Chloride	4.37	41	7490424	73.567	ppbv # 60
23) Vinyl Acetate	5.07	43	20578051	94.188	ppbv # 1
24) 1,1-Dichloroethane	5.06	63	83715	0.526	ppbv # 90
25) Ethyl Acetate	5.70	43	14675614	48.329	ppbv # 77
26) Hexane	5.70	57	18493520	131.238	ppbv # 46
27) Carbon Disulfide	4.55	76	135894	0.979	ppbv # 69
28) Methyl tert-Butyl Ether	5.04	73	226767	1.365	ppbv # 52
30) Cyclohexane	7.14	84	3737378	32.703	ppbv # 94
32) 1,1,1-Trichloroethane	6.51	97	5505	0.024	ppbv # 22
34) 2-Butanone	5.24	43	2462684	14.535	ppbv # 91
36) Benzene	6.89	78	7556358	23.605	ppbv # 95
37) 1,2-Dichloroethane	6.33	62	65429	0.347	ppbv # 82
39) 1,2-Dichloropropane	7.73	63	17188	0.132	ppbv # 1
40) 1,4-Dioxane	7.83	88	995	0.033	ppbv # 1
41) Tetrahydrofuran	6.12	42	679748	8.701	ppbv # 41
42) Bromodichloromethane	7.81	83	1327588	5.180	ppbv # 25
43) Methyl Methacrylate	8.00	69	604584	5.624	ppbv # 1
44) 2,2,4-Trimethylpentane	7.91	57	7538258	13.380	ppbv # 1
50) 4-Methyl-2-Pentanone	8.78	43	310392	1.266	ppbv # 90
51) 2-Hexanone	10.11	43	2529314	20.445	ppbv # 32
52) Tetrachloroethene	11.23	164	9317	0.079	ppbv # 78
53) Toluene	9.82	91	845945	2.481	ppbv # 99
58) Ethyl Benzene	12.71	91	600355	1.329	ppbv # 98
59) m/p-Xylene	12.96	91	1607220	4.078	ppbv # 95
60) o-Xylene	13.68	91	796609	2.090	ppbv # 99
61) Styrene	13.52	104	22723	0.119	ppbv # 35
62) Isopropylbenzene	14.67	105	50863	0.099	ppbv # 49
64) n-propylbenzene	15.55	120	35567	0.283	ppbv # 1

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Instrument :
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.76	119	156360	0.351	ppbv #	66
66) Benzyl Chloride	17.17	91	1937	0.039	ppbv #	88
67) sec-Butylbenzene	17.29	105	33360	0.053	ppbv #	62
69) p-Isopropyltoluene	17.64	119	38576	0.079	ppbv #	64
70) n-Butylbenzene	18.54	91	45835	0.090	ppbv #	55
71) 2-Chlorotoluene	15.55	91	315722	0.821	ppbv #	45
72) 4-Ethyltoluene	15.83	105	366784	0.878	ppbv	96
73) 1,3,5-Trimethylbenzene	15.99	105	474240	1.217	ppbv	95
74) 1,2,4-Trimethylbenzene	16.75	105	1431108	3.431	ppbv #	70
79) Naphthalene	22.20	128	32568	0.134	ppbv #	90
80) Naphthalene,2-methyl-	24.97	142	2713	0.057	ppbv #	80

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

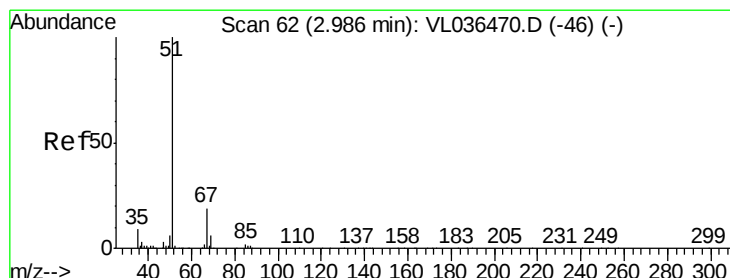
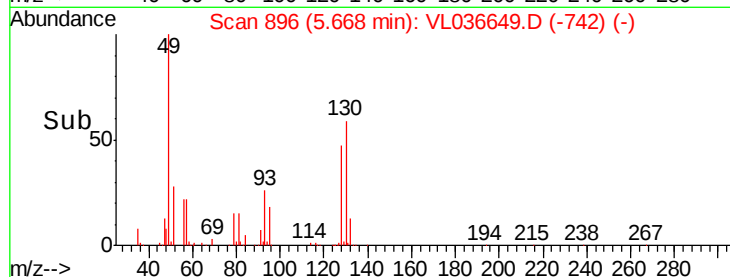
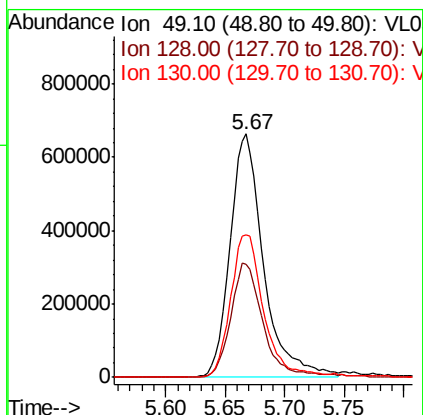
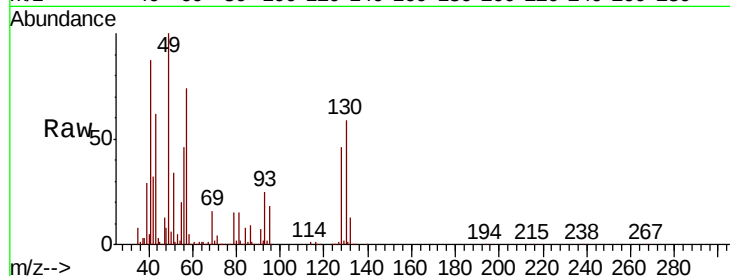


#1

Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.00 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Instrument :
 MSVOA_L
 ClientSampleId :

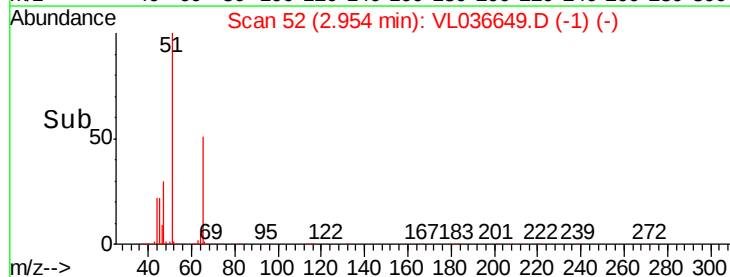
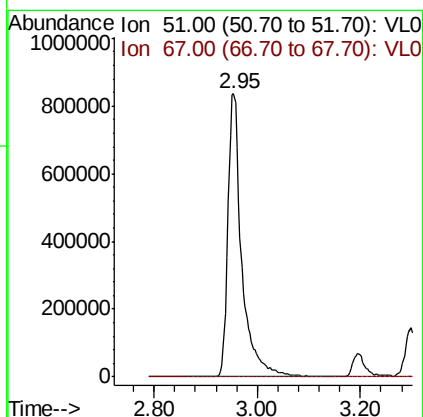
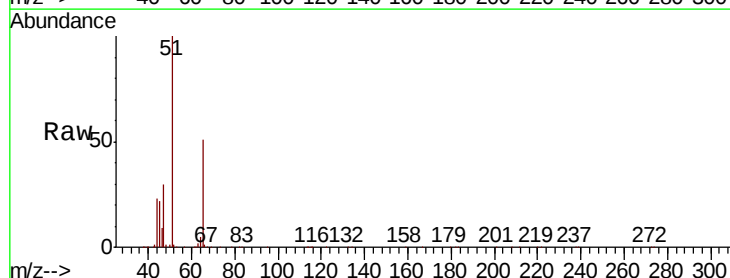
Tot Ion: 49 Resp: 1297712
 Ion Ratio Lower Upper
 49 100
 128 46.1 23.5 70.6
 130 59.3 29.1 87.4

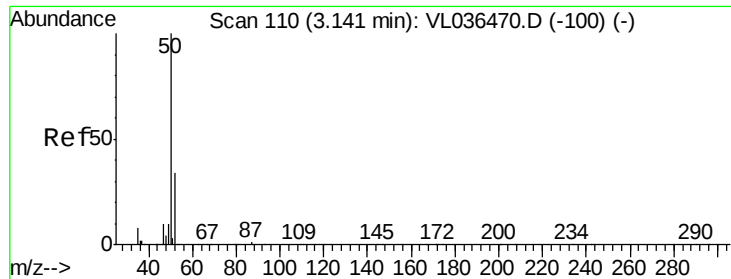


#3

Chlorodifluoromethane
 Concen: 6.436 ppbv
 RT: 2.95 min Scan# 52
 Delta R.T. -0.03 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Tgt Ion: 51 Resp: 1560489
 Ion Ratio Lower Upper
 51 100
 67 0.4 14.7 22.1#





#4

Chloromethane

Concen: 0.291 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

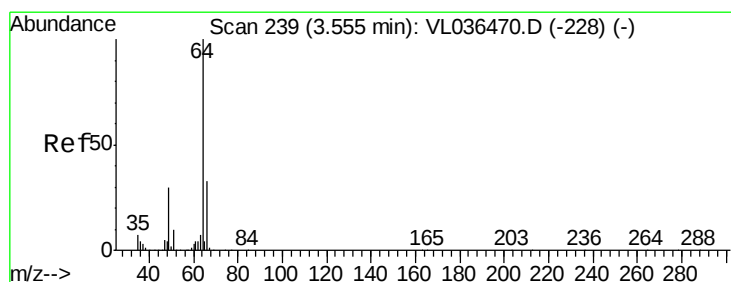
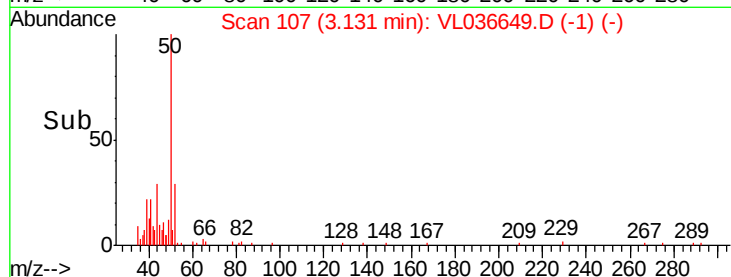
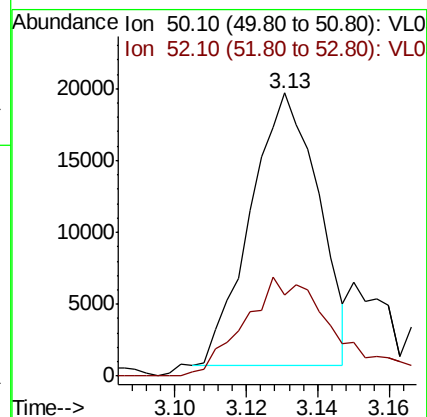
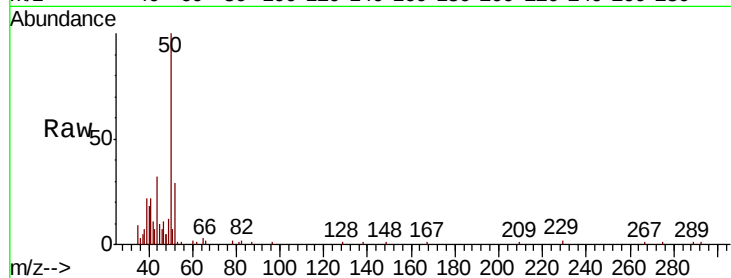
ClientSampleId :

Tot Ion: 50 Resp: 24896

Ion Ratio Lower Upper

50 100

52 28.6 27.0 40.6



#7

Chloroethane

Concen: 0.036 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL036649.D

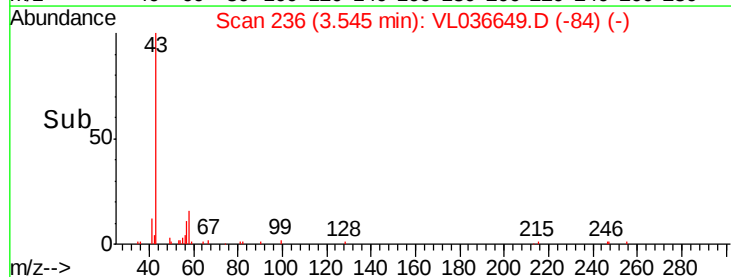
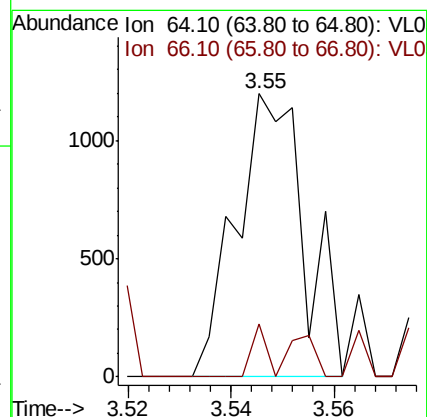
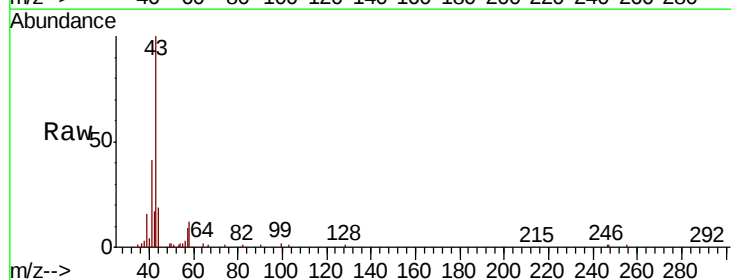
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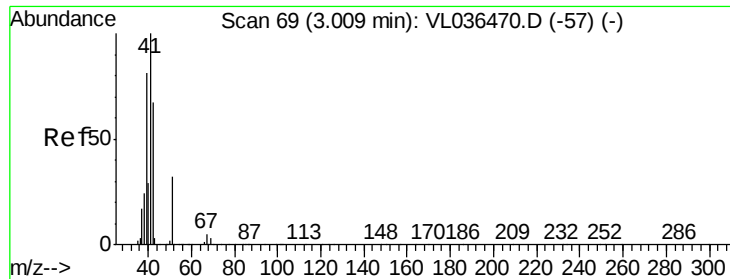
Tgt Ion: 64 Resp: 1104

Ion Ratio Lower Upper

64 100

66 67.8 26.2 39.2#





#9

Propene

Concen: 70.707 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.19 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

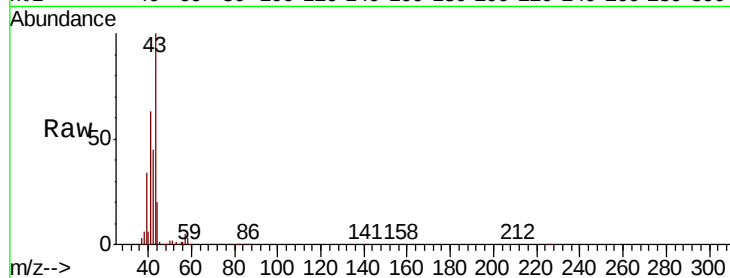
ClientSampleId :

Tot Ion: 41 Resp: 5465328

Ion Ratio Lower Upper

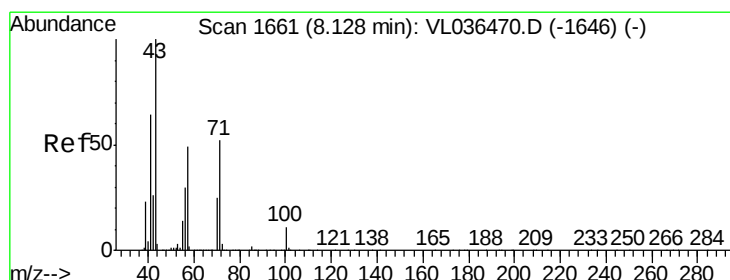
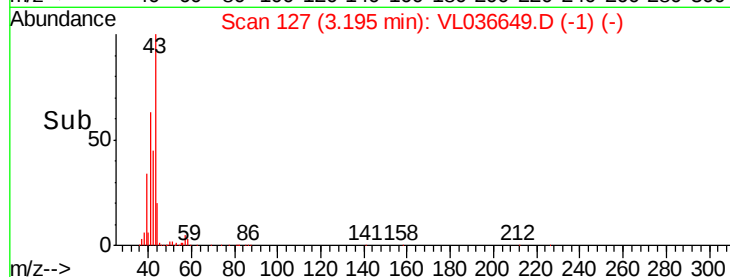
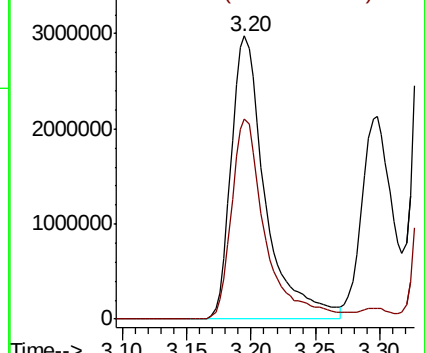
41 100

42 70.5 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 45.350 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL036649.D

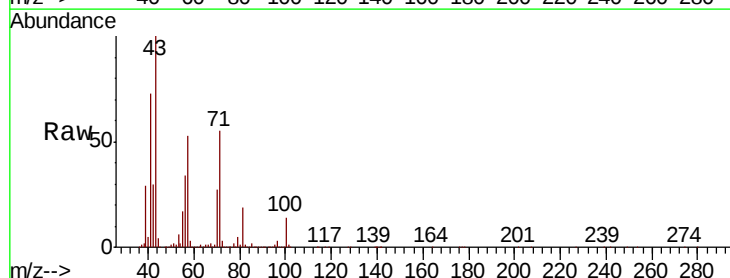
Acq: 2 Apr 2021 17:47

Tgt Ion: 43 Resp: 8930040

Ion Ratio Lower Upper

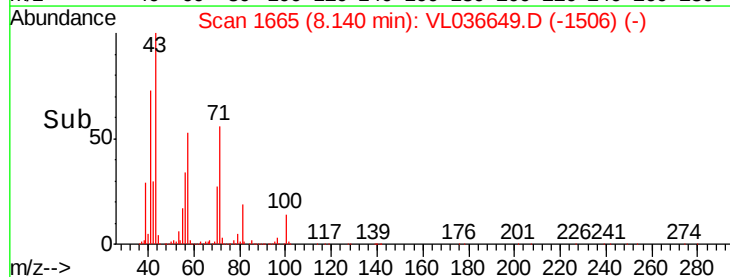
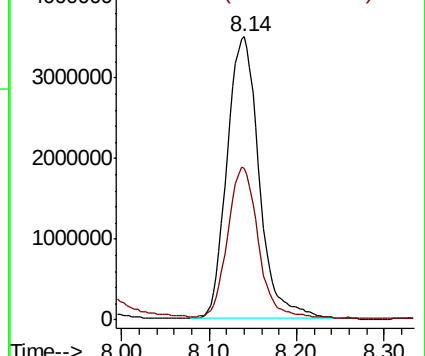
43 100

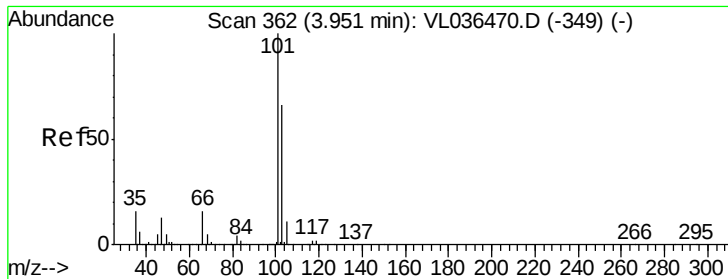
57 51.9 39.0 58.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.259 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

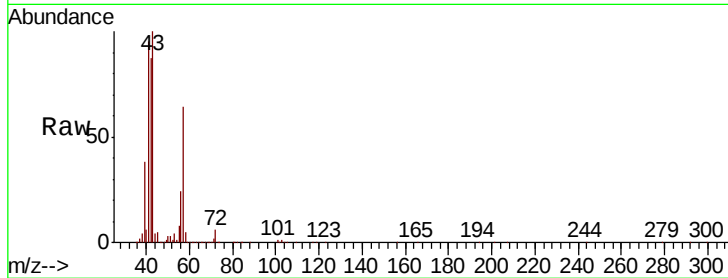
ClientSampleId :

Tot Ion:101 Resp: 55785

Ion Ratio Lower Upper

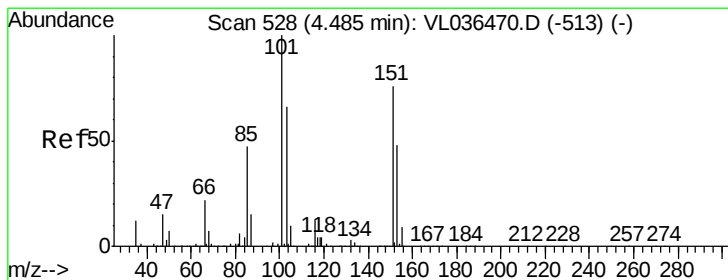
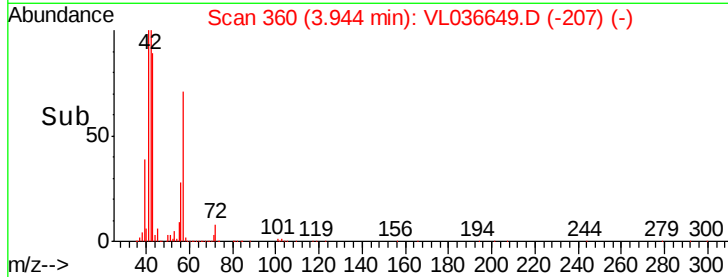
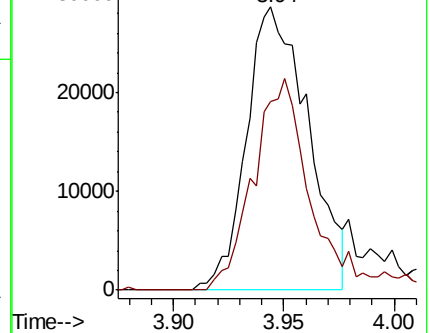
101 100

103 66.8 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.023 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL036649.D

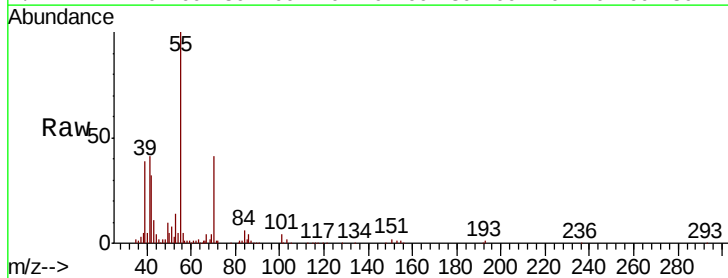
Acq: 2 Apr 2021 17:47

Tgt Ion:101 Resp: 3219

Ion Ratio Lower Upper

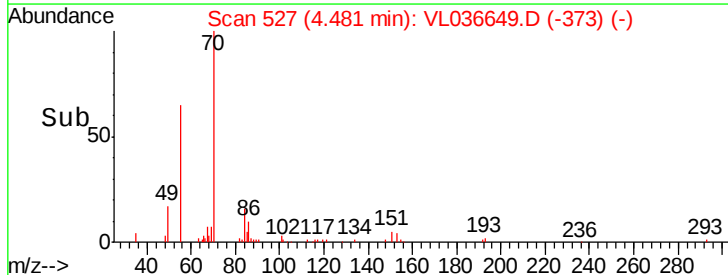
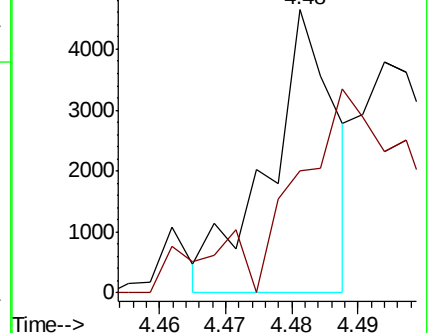
101 100

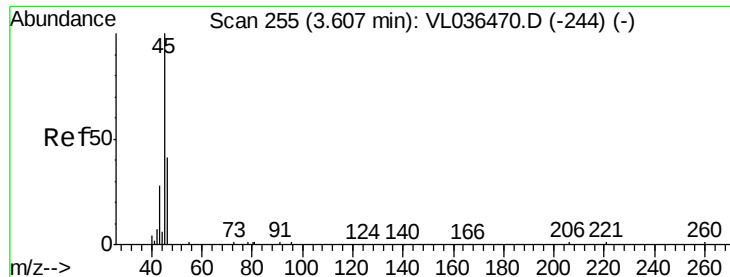
151 0.0 60.9 91.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 323.024 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

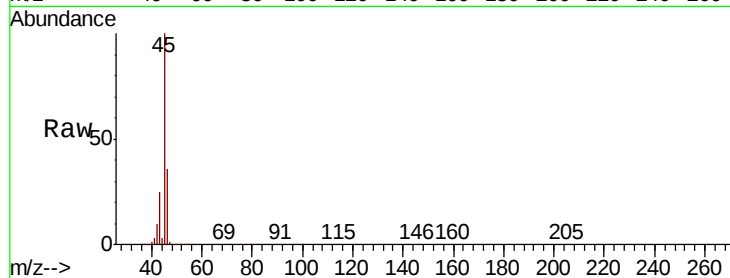
ClientSampled :

Tot Ion: 45 Resp: 2973304

Ion Ratio Lower Upper

45 100

46 37.7 16.6 66.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

1500000

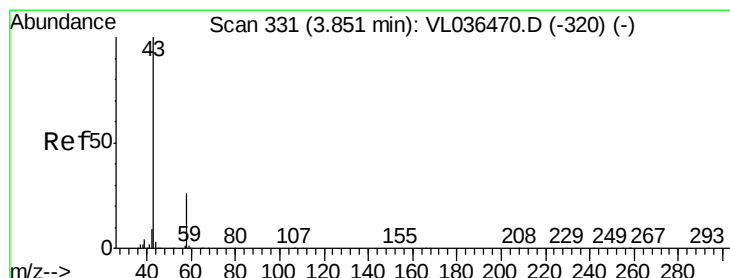
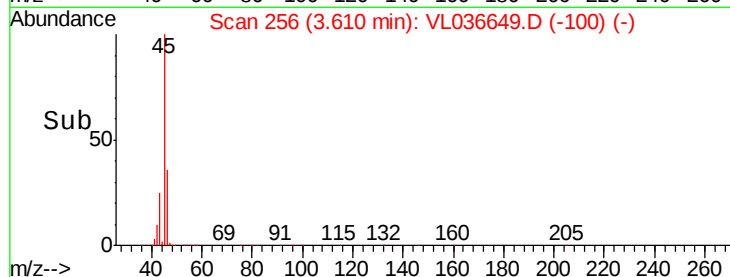
1000000

500000

0

3.50 3.55 3.60 3.65 3.70

Time-->



#15

Acetone

Concen: 73.348 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036649.D

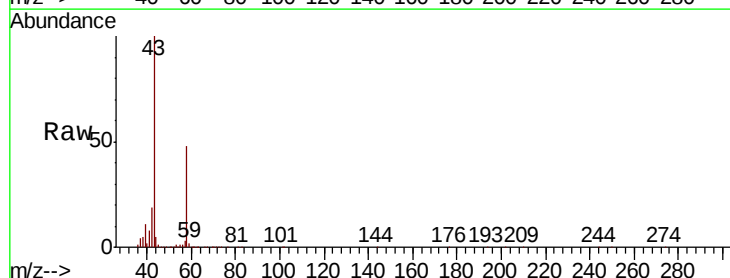
Acq: 2 Apr 2021 17:47

Tgt Ion: 43 Resp: 9368360

Ion Ratio Lower Upper

43 100

58 96.4 21.2 31.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8000000

6000000

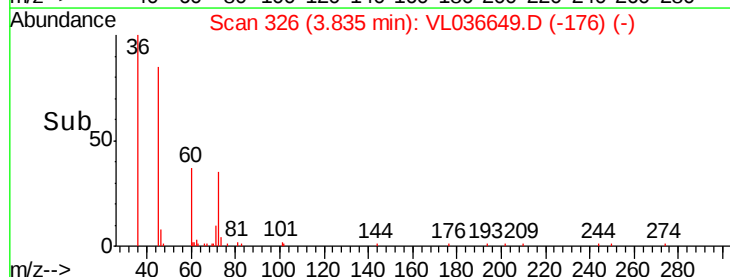
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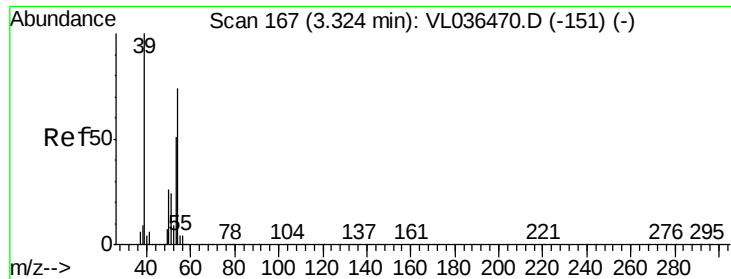
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0

3.78 3.80 3.82 3.84 3.86

Time-->

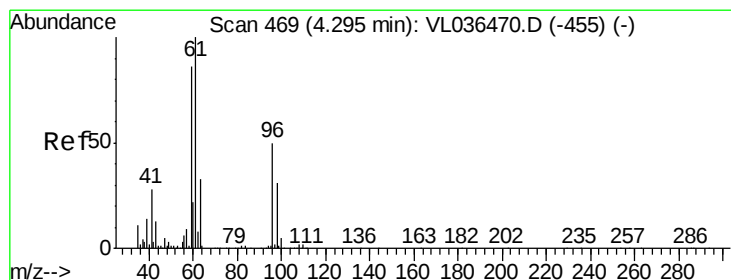
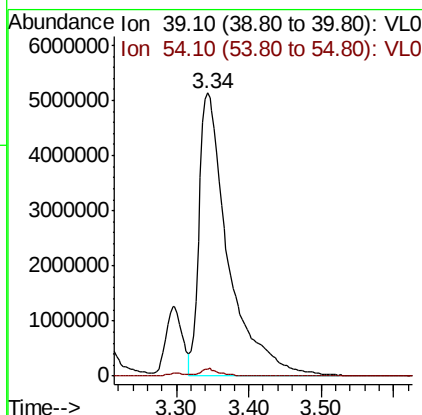
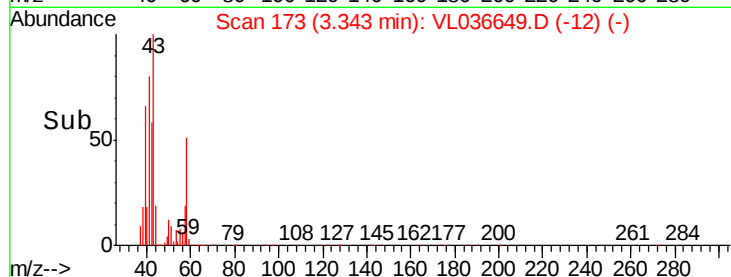
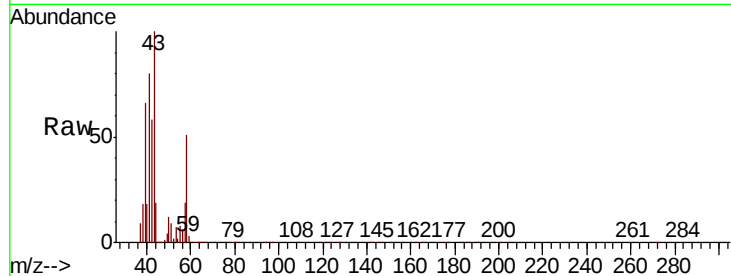




#16
 1,3-Butadiene
 Concen: 159.620 ppbv
 RT: 3.34 min Scan# 173
 Delta R.T. 0.02 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

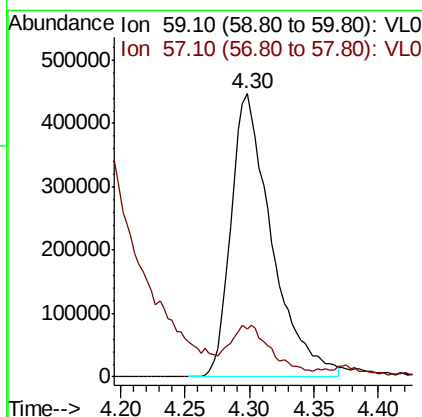
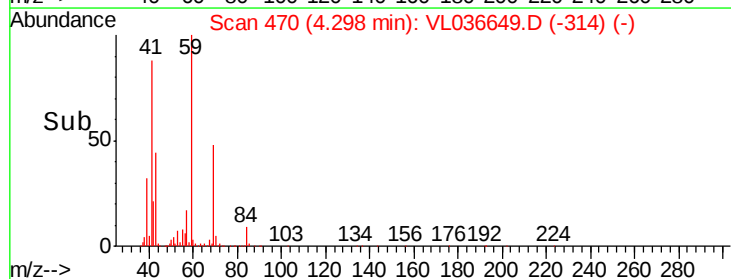
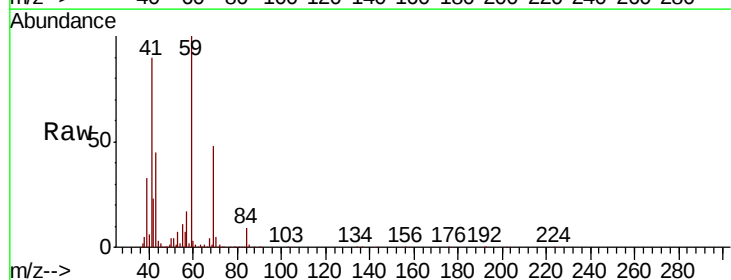
Instrument :
 MSVOA_L
 ClientSampled :

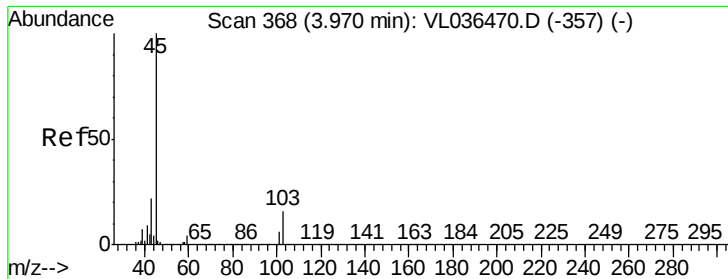
Tot Ion: 39 Resp:14193841
 Ion Ratio Lower Upper
 39 100
 54 2.0 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 8.797 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.00 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Tgt Ion: 59 Resp: 978131
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#



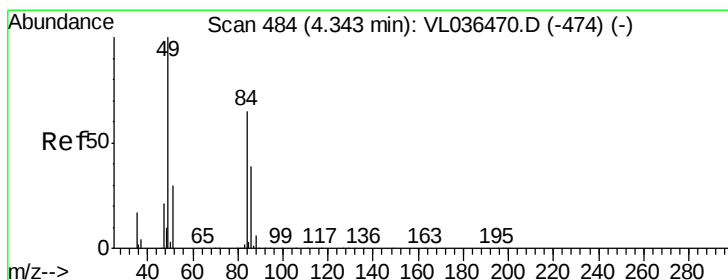
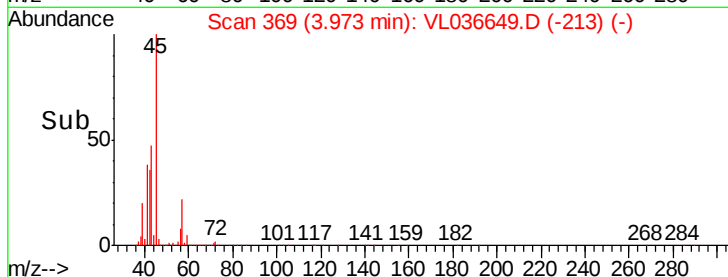
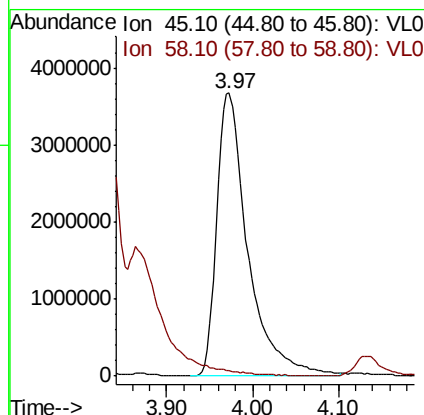
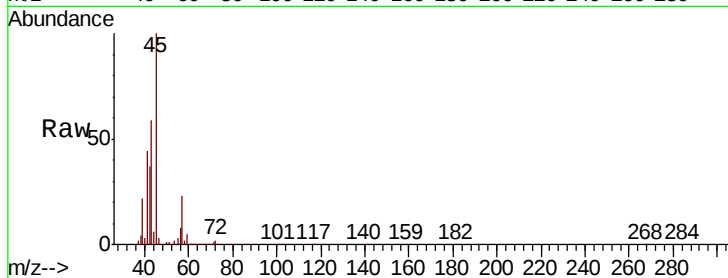


#19

Isopropyl Alcohol
 Concen: 131.411 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Instrument :
 MSVOA_L
 ClientSampleID :

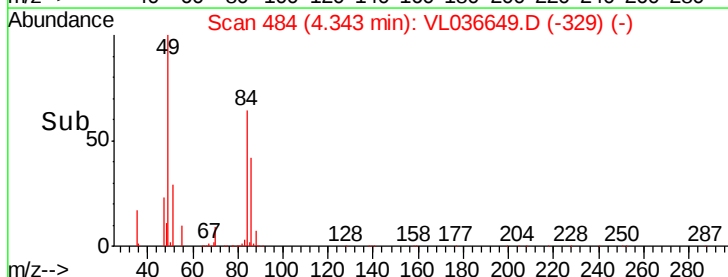
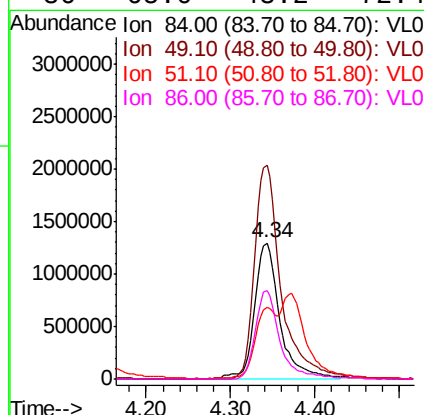
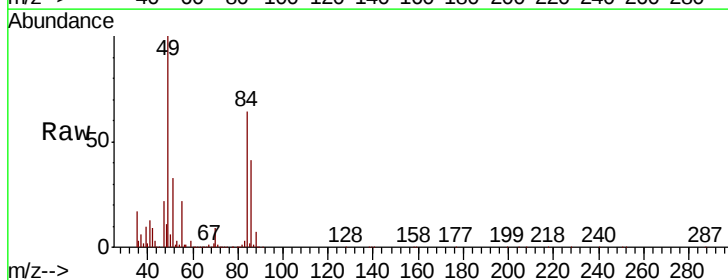
Tot Ion: 45 Resp: 9233045
 Ion Ratio Lower Upper
 45 100
 58 97.8 2.9 4.3#

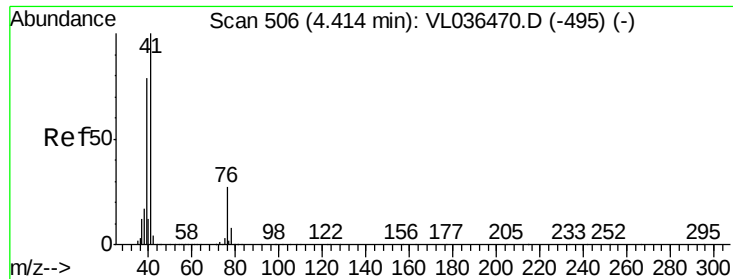


#20

Methylene Chloride
 Concen: 45.340 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. -0.00 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Tgt Ion: 84 Resp: 2711403
 Ion Ratio Lower Upper
 84 100
 49 157.3 122.9 184.3
 51 52.2 36.9 55.3
 86 65.0 48.2 72.4

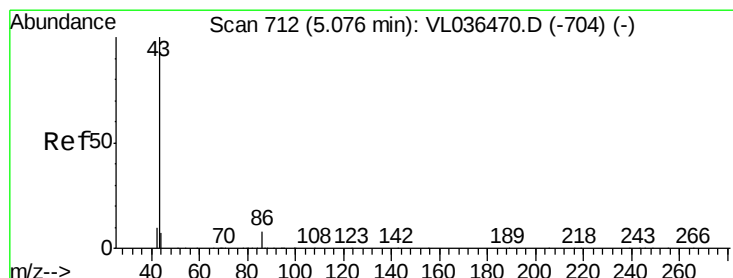
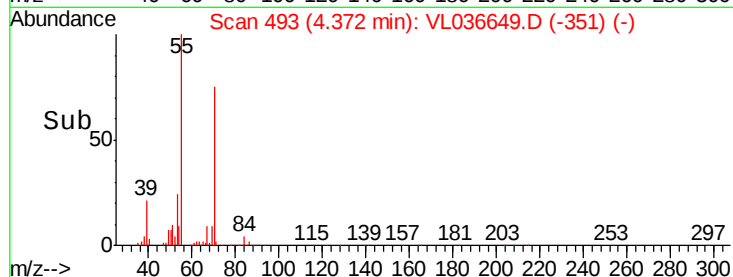
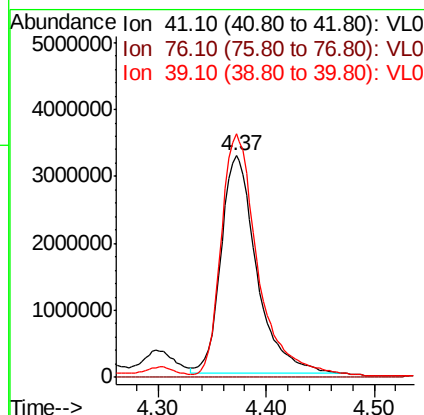
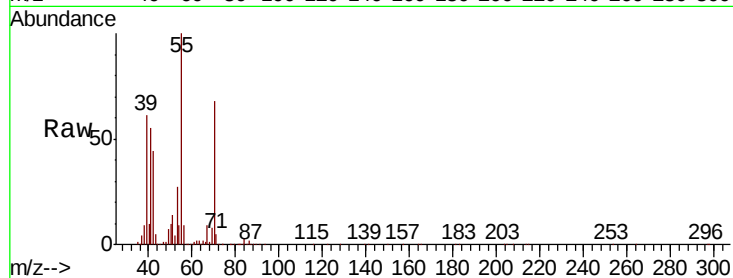




#21
Allvl Chloride
Concen: 73.567 ppbv
RT: 4.37 min Scan# 493
Delta R.T. -0.04 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

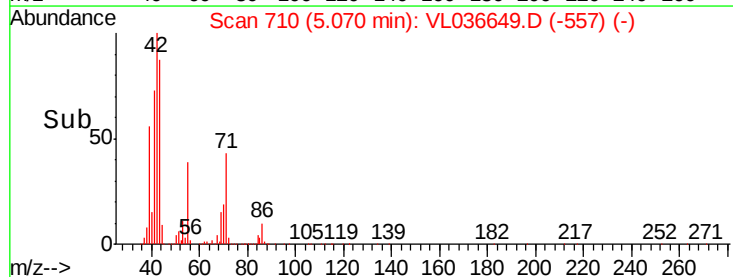
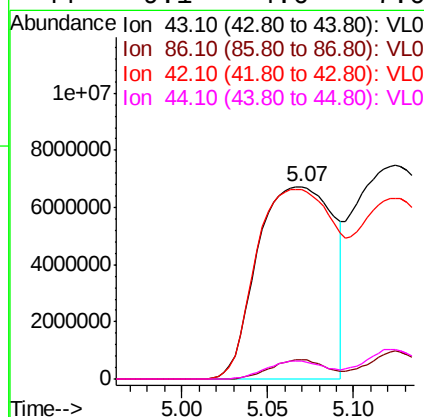
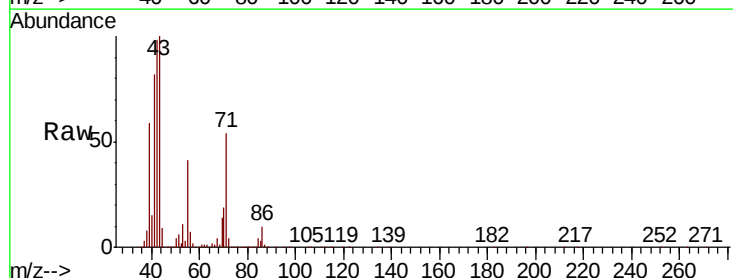
Instrument :
MSVOA_L
ClientSampleId :

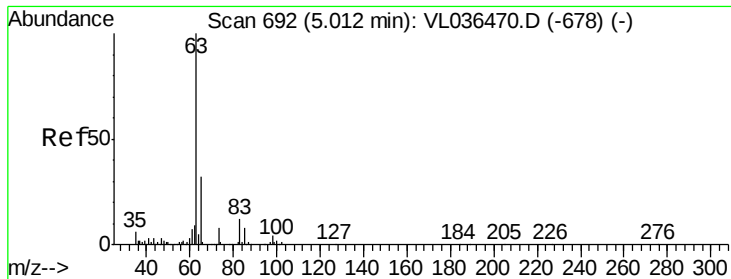
Tot Ion: 41 Resp: 7490424
Ion Ratio Lower Upper
41 100
76 0.0 22.9 34.3#
39 116.4 67.3 100.9#



#23
Vinyl Acetate
Concen: 94.188 ppbv
RT: 5.07 min Scan# 710
Delta R.T. -0.01 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

Tgt Ion: 43 Resp: 20578051
Ion Ratio Lower Upper
43 100
86 10.1 5.4 8.0#
42 98.2 8.5 12.7#
44 9.1 4.6 7.0#





#24

1,1-Dichloroethane

Concen: 0.526 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.05 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampleId :

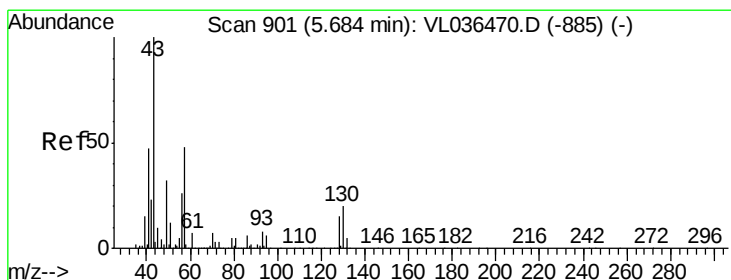
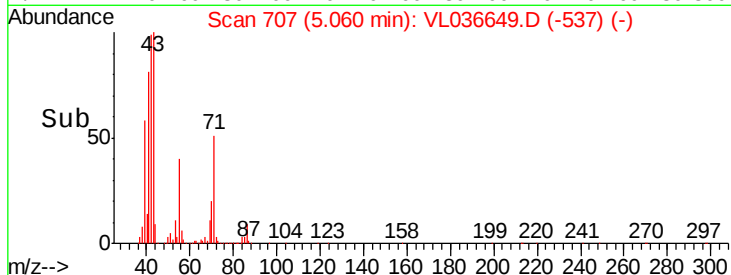
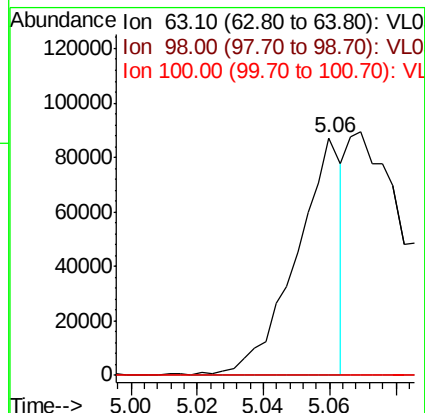
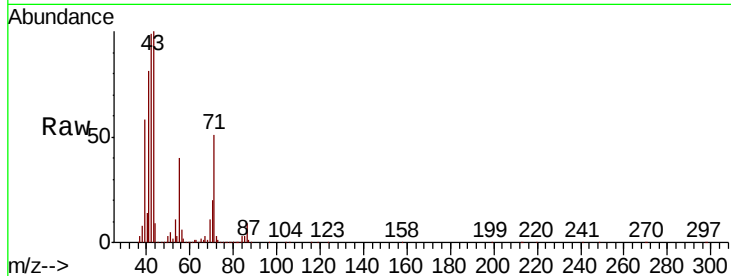
Tot Ion: 63 Resp: 83715

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

100 0.0 0.9 2.8#



#25

Ethyl Acetate

Concen: 48.329 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Tgt Ion: 43 Resp: 14675614

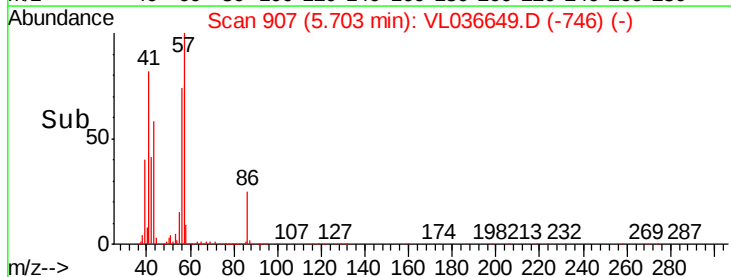
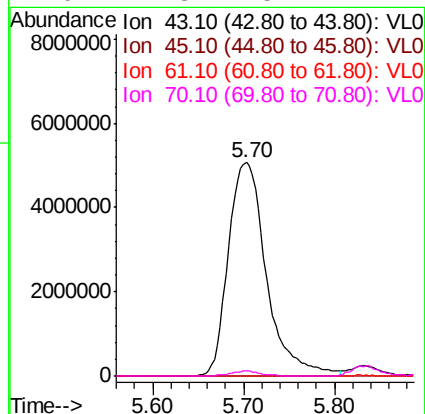
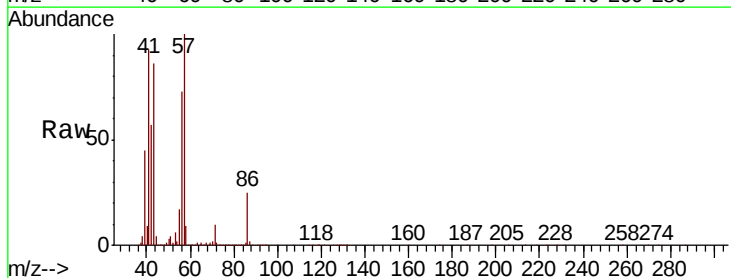
Ion Ratio Lower Upper

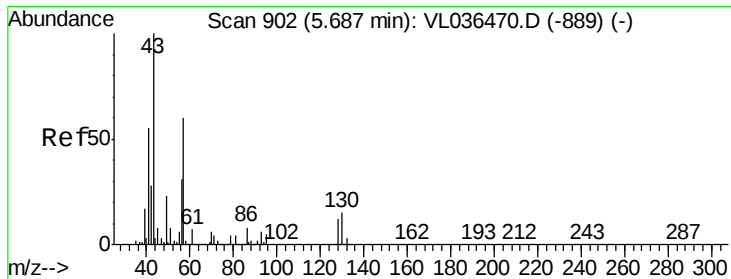
43 100

45 0.2 7.9 11.9#

61 0.2 7.4 11.2#

70 1.8 5.1 7.7#

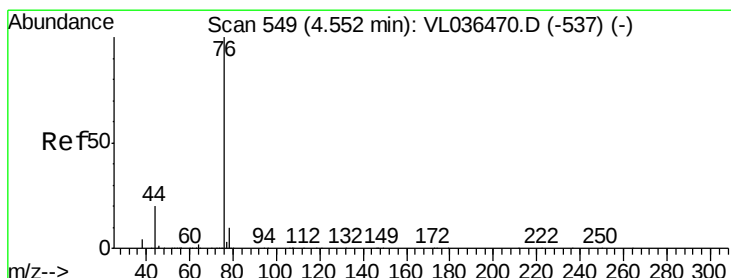
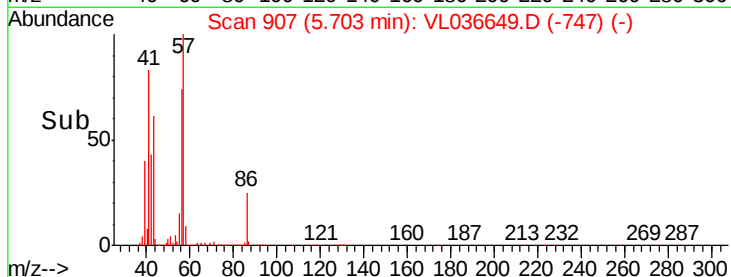
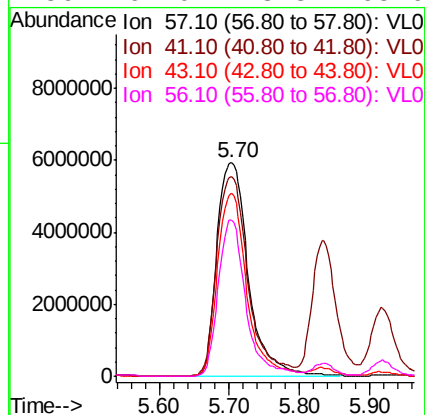
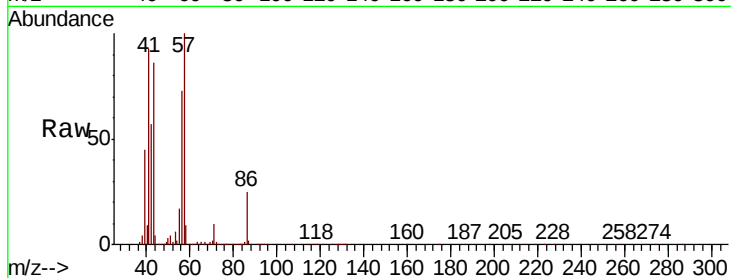




#26
Hexane
Concen: 131.238 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

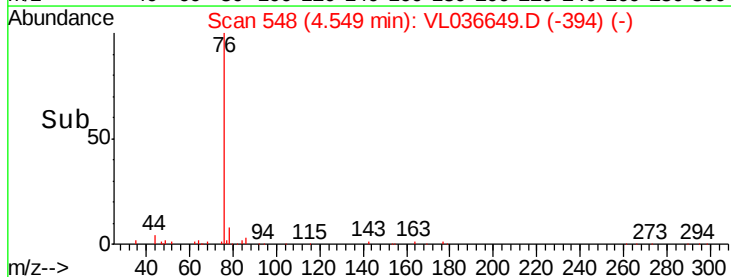
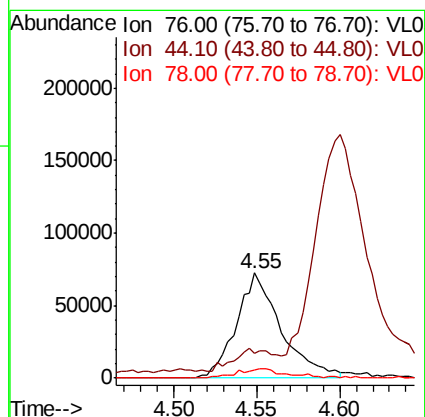
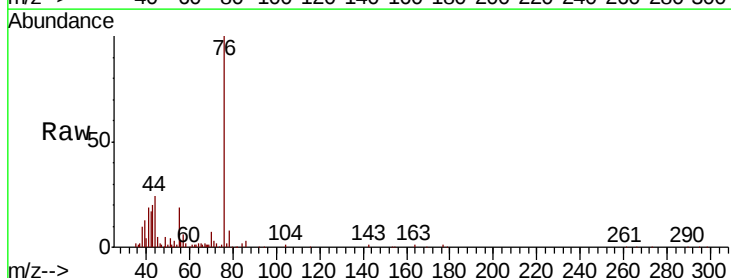
Instrument :
MSVOA_L
ClientSampleId :

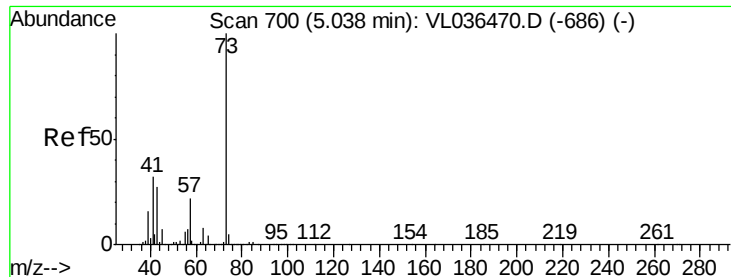
Tot Ion: 57 Resp:18493520
Ion Ratio Lower Upper
57 100
41 93.1 77.2 115.8
43 79.3 173.8 260.6#
56 64.0 43.8 65.6



#27
Carbon Disulfide
Concen: 0.979 ppbv
RT: 4.55 min Scan# 548
Delta R.T. -0.00 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

Tgt Ion: 76 Resp: 135894
Ion Ratio Lower Upper
76 100
44 0.0 17.5 26.3#
78 10.1 8.6 13.0



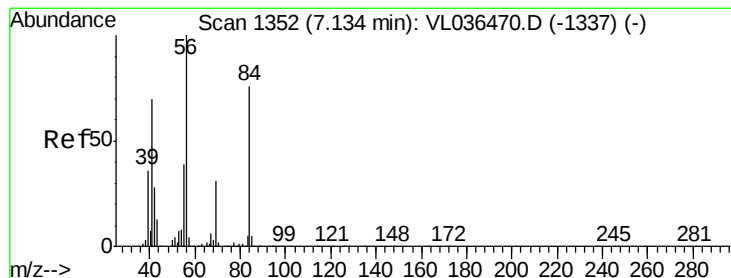
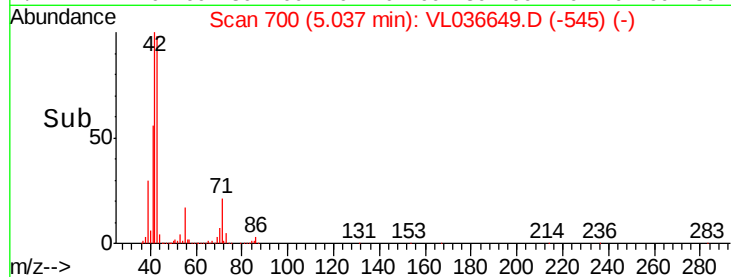
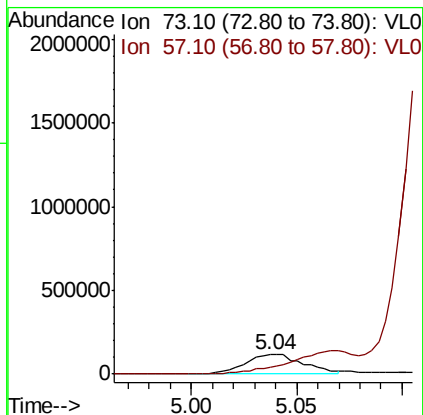
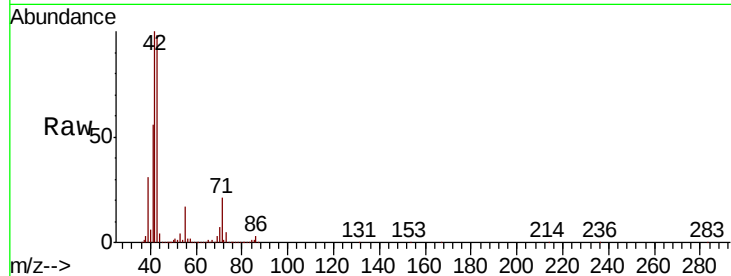


#28

Methvl tert-Butvl Ether
 Concen: 1.365 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Instrument :
 MSVOA_L
 ClientSampleId :

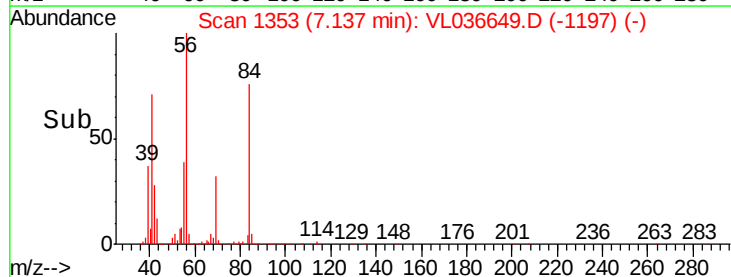
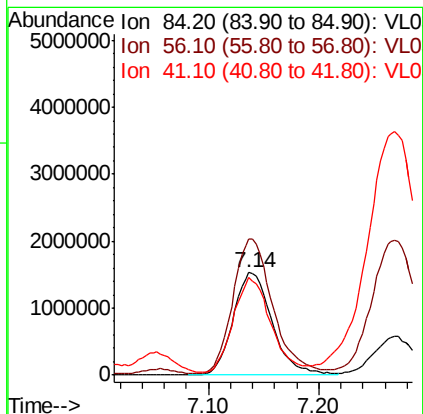
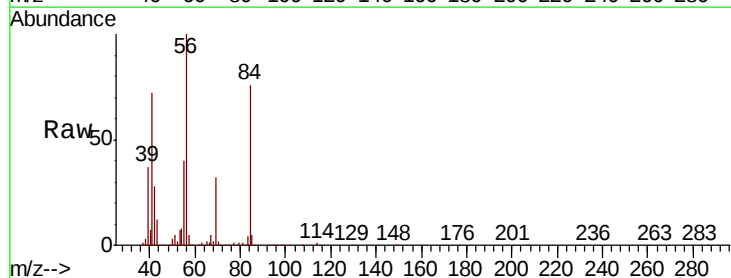
Tot Ion: 73 Resp: 226767
 Ion Ratio Lower Upper
 73 100
 57 0.0 18.5 27.7#

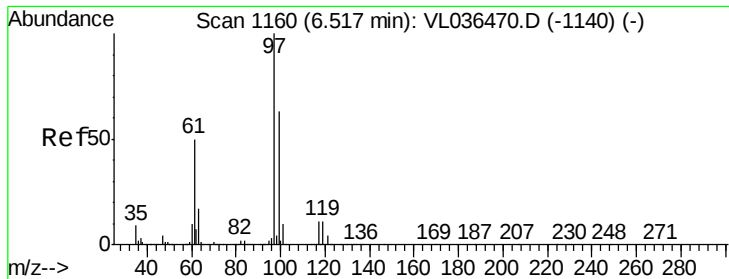


#30

Cyclohexane
 Concen: 32.703 ppbv
 RT: 7.14 min Scan# 1353
 Delta R.T. 0.00 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Tgt Ion: 84 Resp: 3737378
 Ion Ratio Lower Upper
 84 100
 56 135.4 114.6 171.8
 41 87.8 75.3 112.9





#32

1,1,1-Trichloroethane

Concen: 0.024 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampleId :

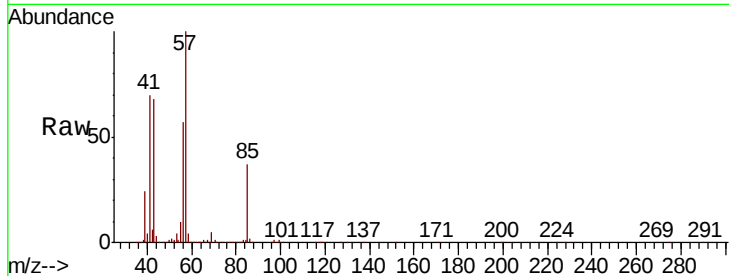
Tot Ion: 97 Resp: 5505

Ion Ratio Lower Upper

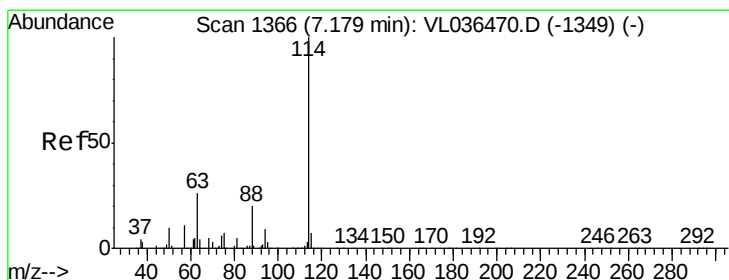
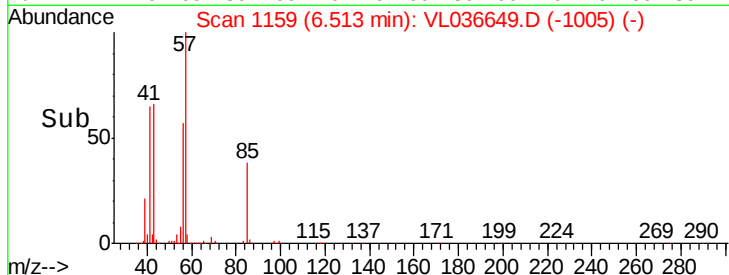
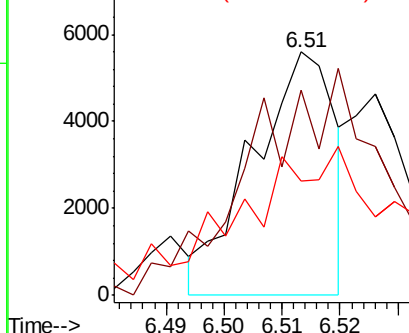
97 100

99 0.0 51.4 77.0#

61 0.0 40.6 60.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

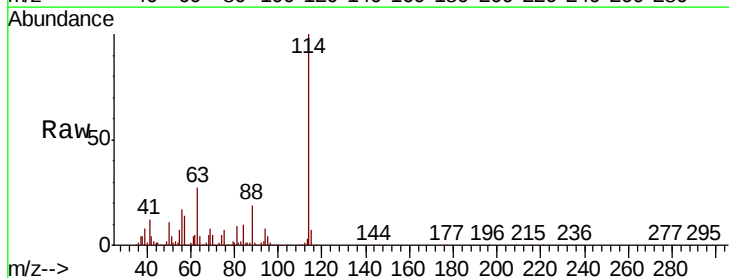
Tgt Ion: 114 Resp: 3470962

Ion Ratio Lower Upper

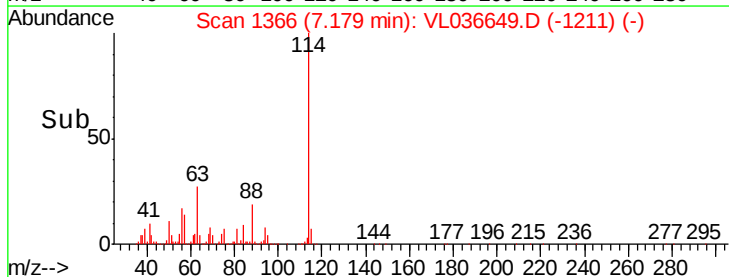
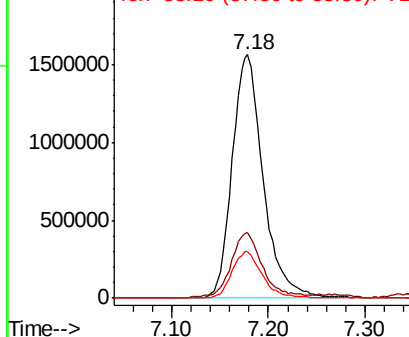
114 100

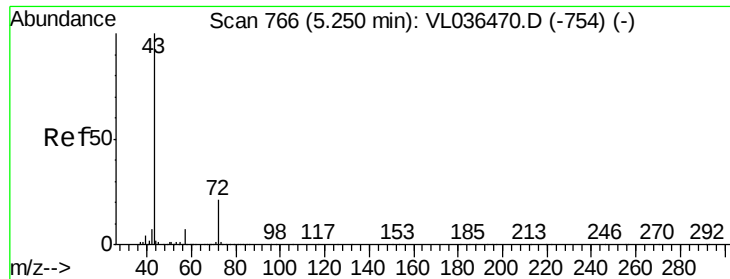
63 27.6 22.4 33.6

88 18.9 15.4 23.0



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

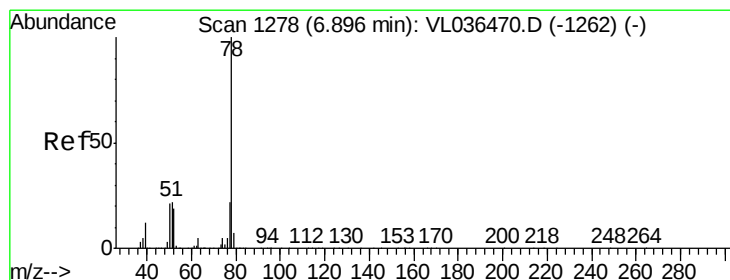
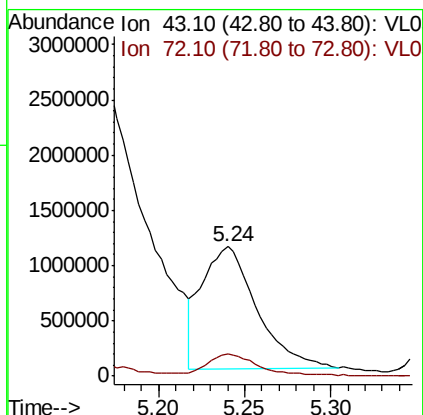
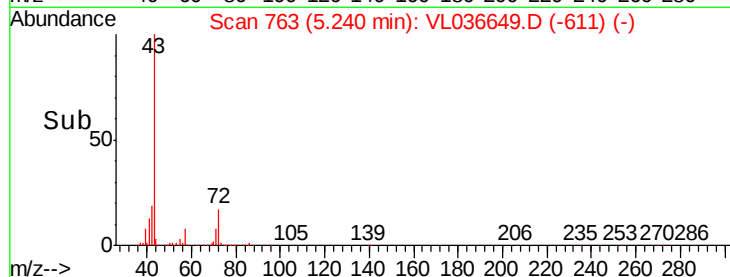
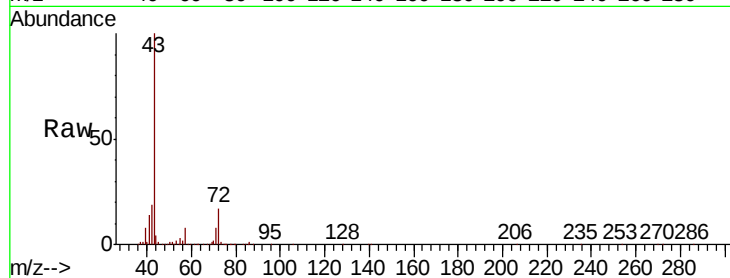




#34
2-Butanone
Concen: 14.535 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.01 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

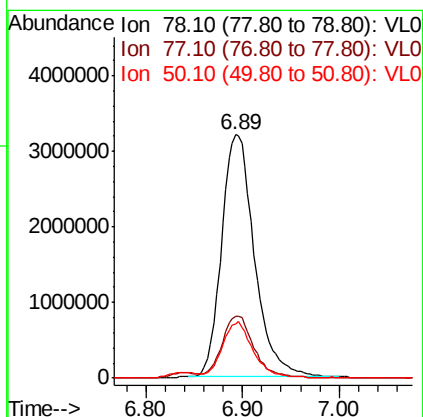
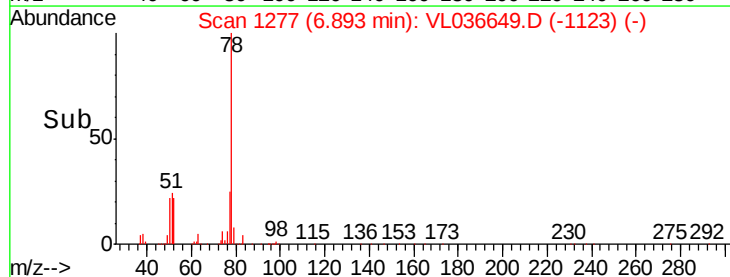
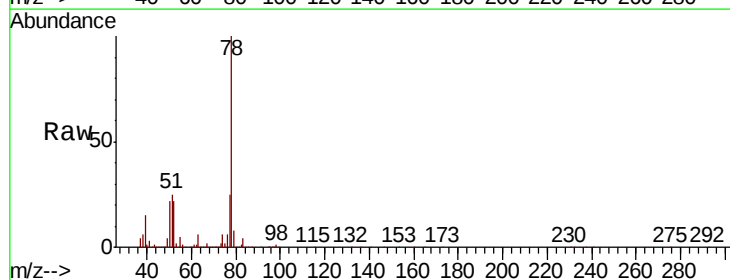
Instrument :
MSVOA_L
ClientSampleId :

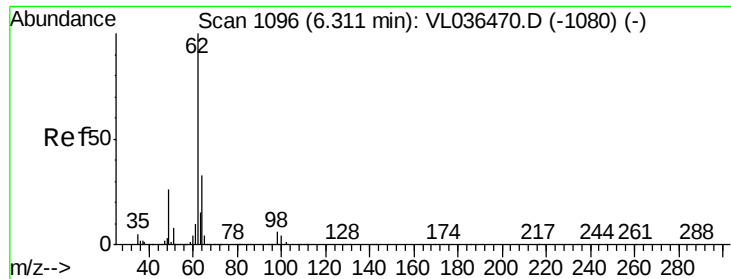
Tot Ion: 43 Resp: 2462684
Ion Ratio Lower Upper
43 100
72 17.3 17.0 25.6



#36
Benzene
Concen: 23.605 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

Tgt Ion: 78 Resp: 7556358
Ion Ratio Lower Upper
78 100
77 25.4 18.0 27.0
50 21.9 16.5 24.7

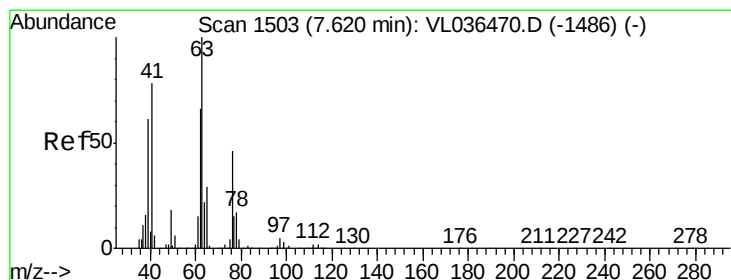
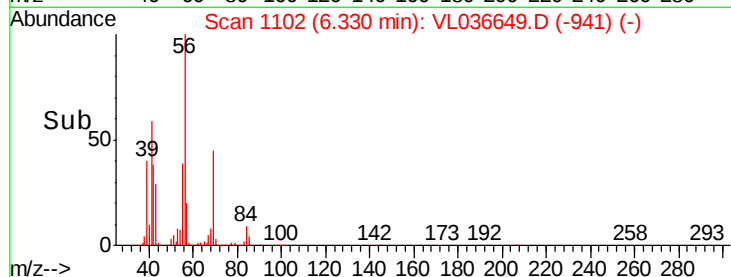
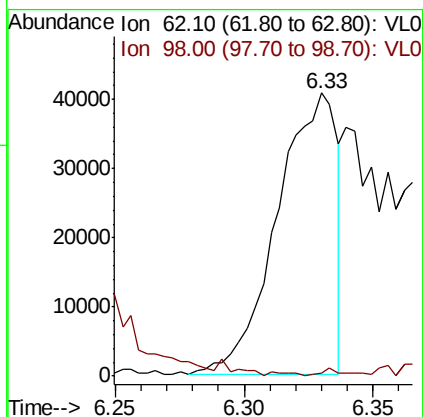
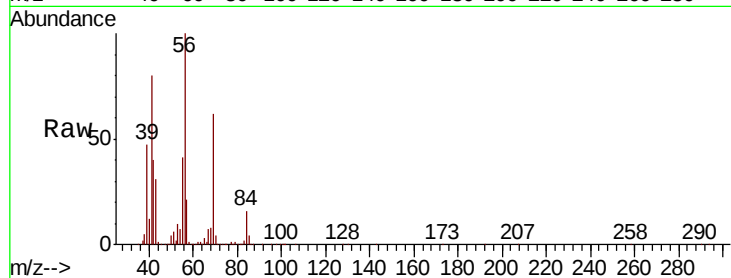




#37
 1,2-Dichloroethane
 Concen: 0.347 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. 0.02 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

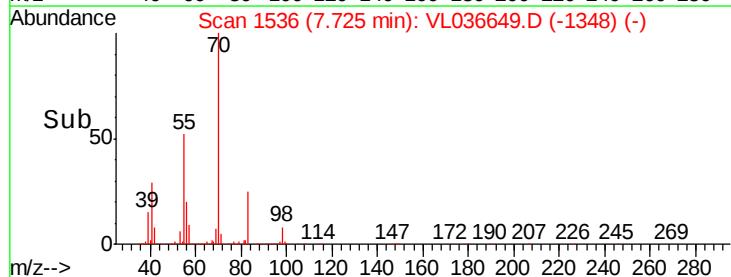
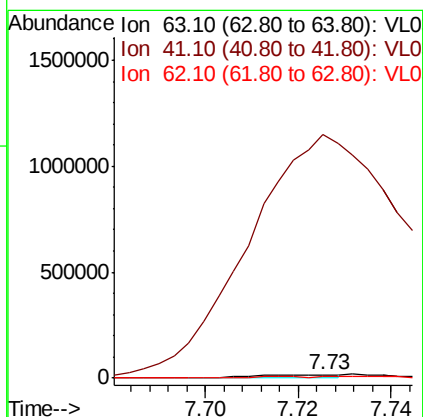
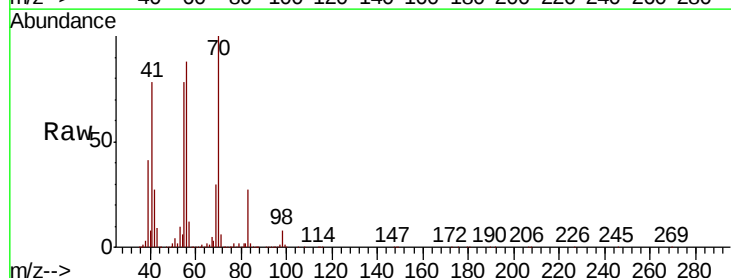
Instrument :
 MSVOA_L
 ClientSampleId :

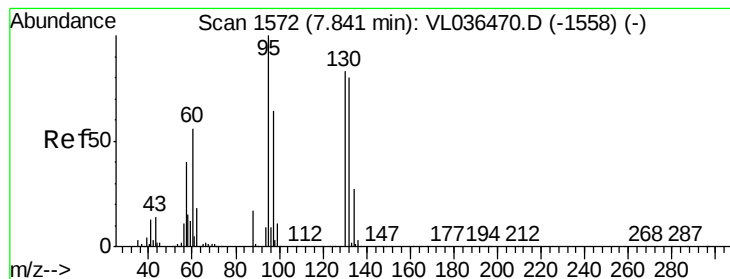
Tot Ion: 62 Resp: 65429
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.9 7.3#



#39
 1,2-Dichloropropane
 Concen: 0.132 ppbv
 RT: 7.73 min Scan# 1536
 Delta R.T. 0.11 min
 Lab File: VL036649.D
 Acq: 2 Apr 2021 17:47

Tgt Ion: 63 Resp: 17188
 Ion Ratio Lower Upper
 63 100
 41 7088.3 62.4 93.6#
 62 38.1 52.8 79.2#





#40

1,4-Dioxane

Concen: 0.033 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 88 Resp: 995

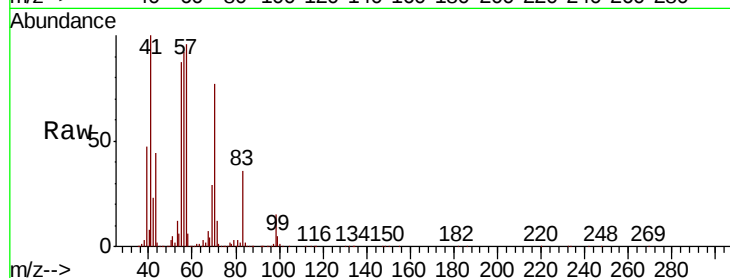
Ion Ratio Lower Upper

88 100

58 0.0 134.1 201.1#

43 0.0 346.6 520.0#

57 0.0 1481.8 2222.8#

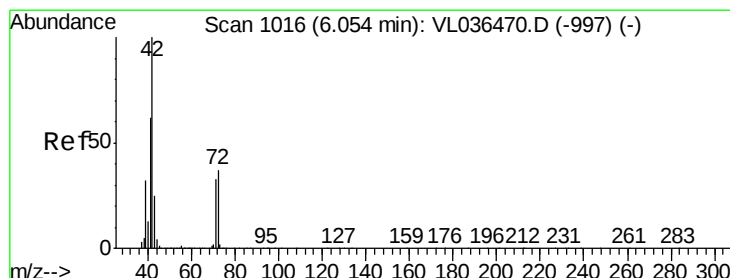
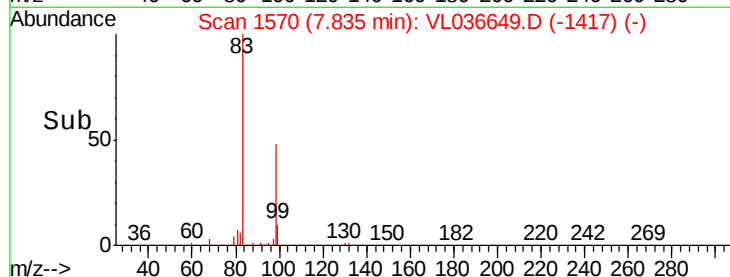
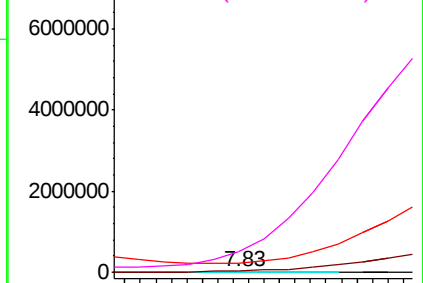


Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#41

Tetrahydrofuran

Concen: 8.701 ppbv

RT: 6.12 min Scan# 1037

Delta R.T. 0.07 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

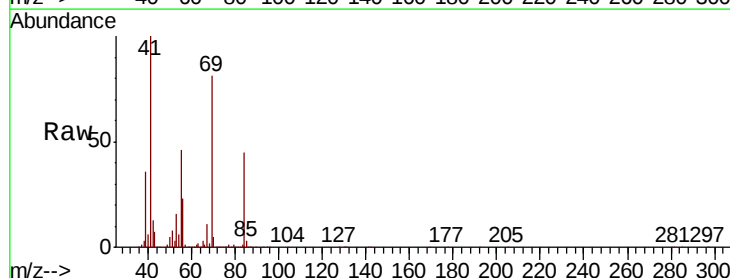
Tgt Ion: 42 Resp: 679748

Ion Ratio Lower Upper

42 100

72 0.9 27.6 41.4#

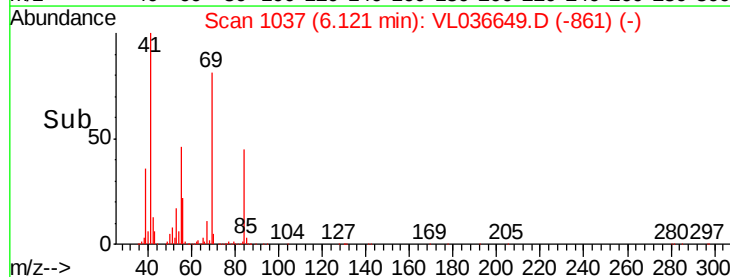
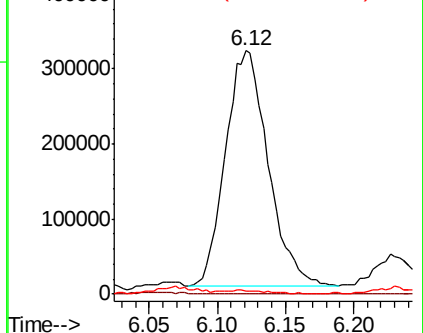
71 0.0 27.0 40.4#

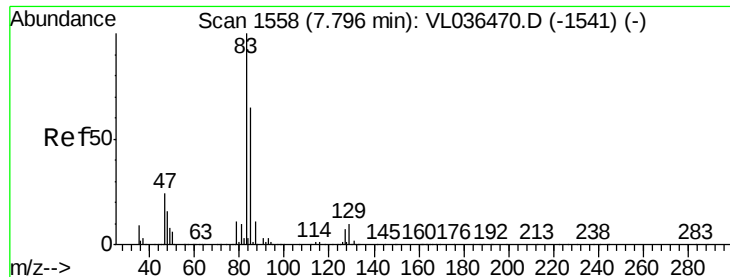


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 5.180 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampled :

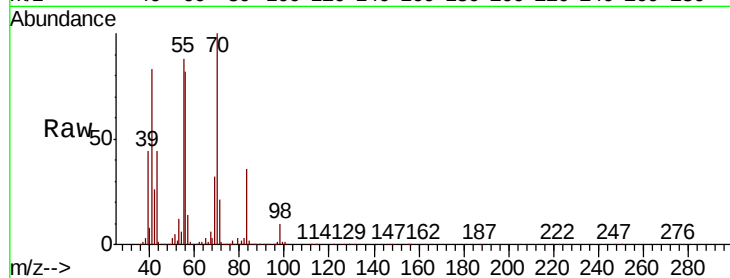
Tot Ion: 83 Resp: 1327588

Ion Ratio Lower Upper

83 100

85 0.7 51.8 77.6#

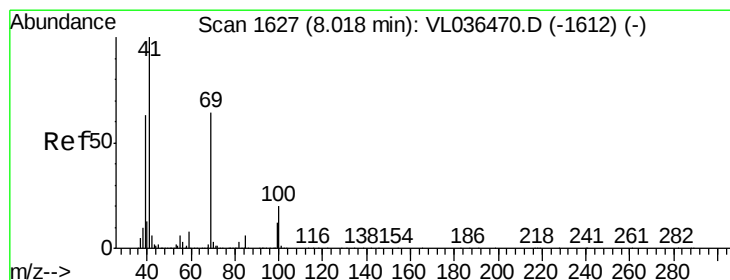
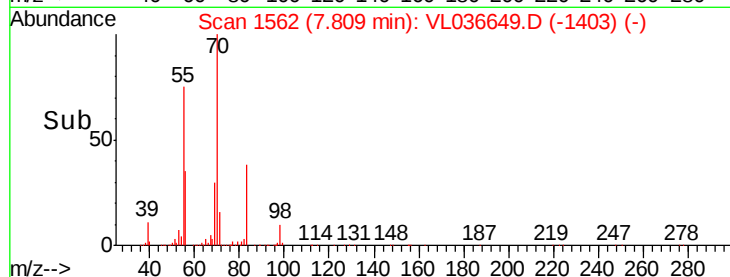
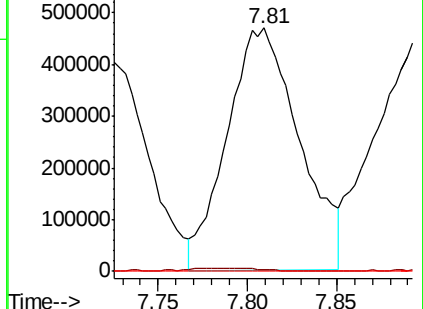
127 0.1 5.8 8.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 5.624 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

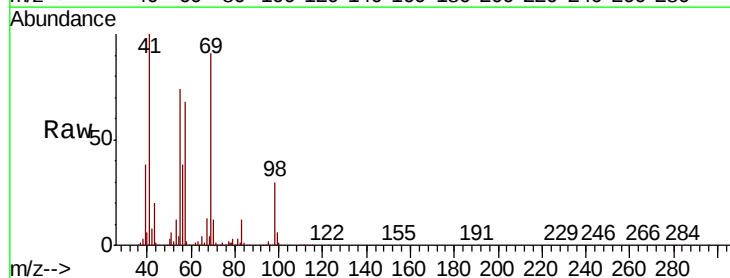
Tgt Ion: 69 Resp: 604584

Ion Ratio Lower Upper

69 100

41 0.0 126.8 190.2#

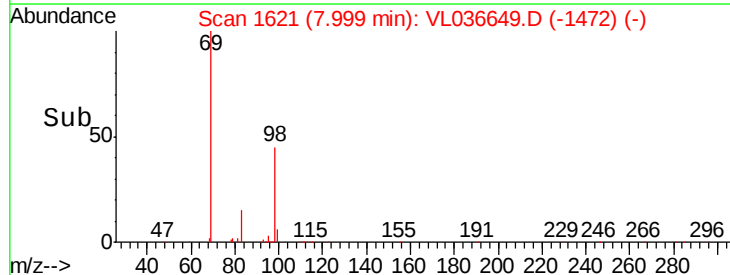
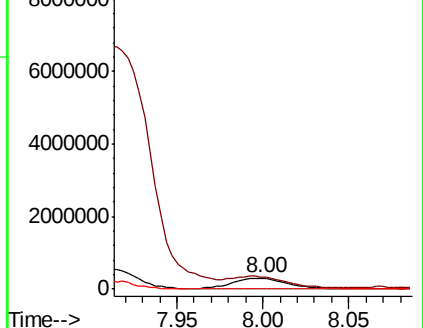
100 0.0 24.9 37.3#

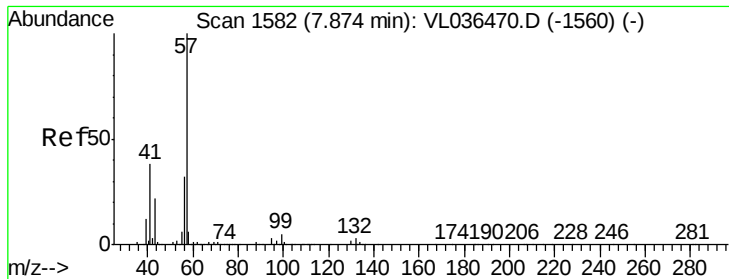


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 13.380 ppbv

RT: 7.91 min Scan# 1592

Delta R.T. 0.03 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampleId :

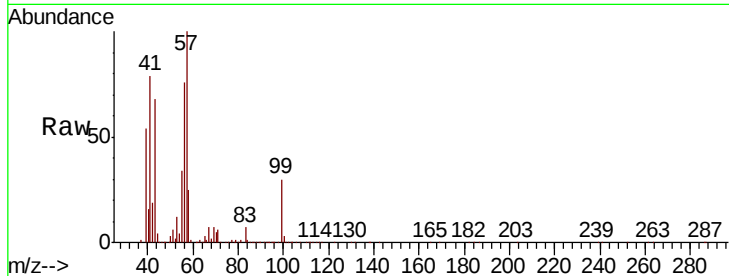
Tot Ion: 57 Resp: 7538258

Ion Ratio Lower Upper

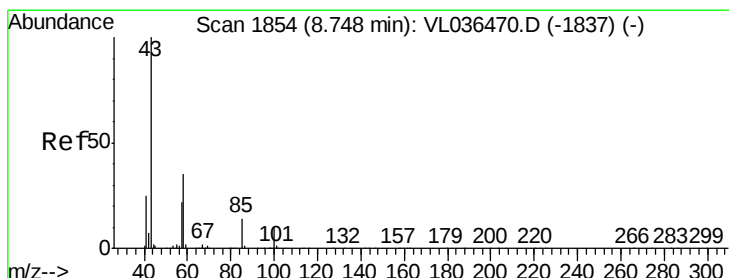
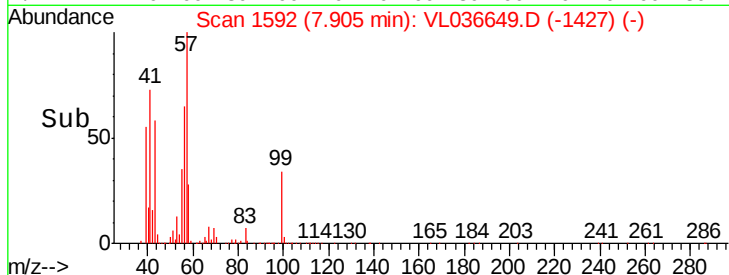
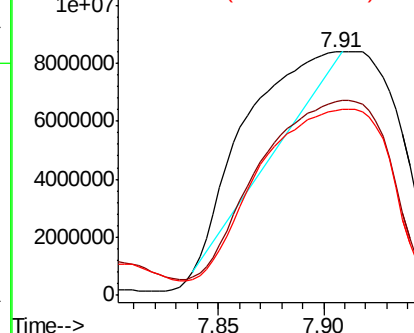
57 100

41 394.5 28.8 43.2#

56 383.3 26.1 39.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 1.266 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. 0.03 min

Lab File: VL036649.D

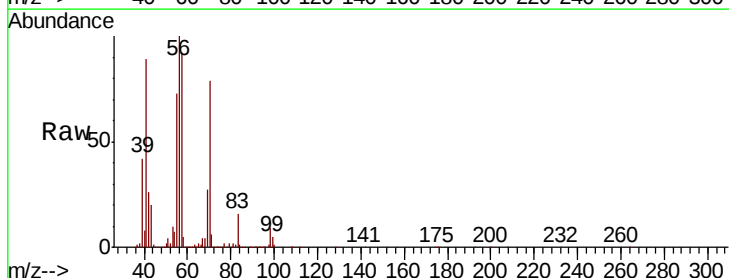
Acq: 2 Apr 2021 17:47

Tgt Ion: 43 Resp: 310392

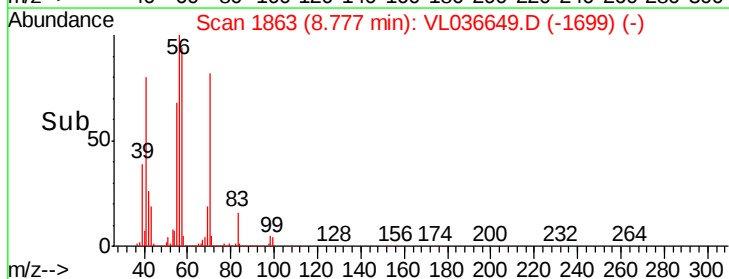
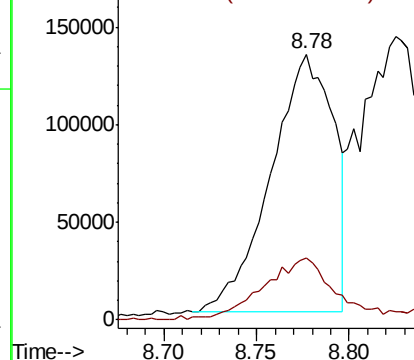
Ion Ratio Lower Upper

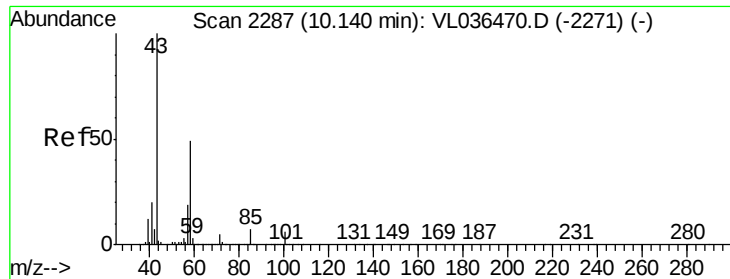
43 100

58 29.5 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0

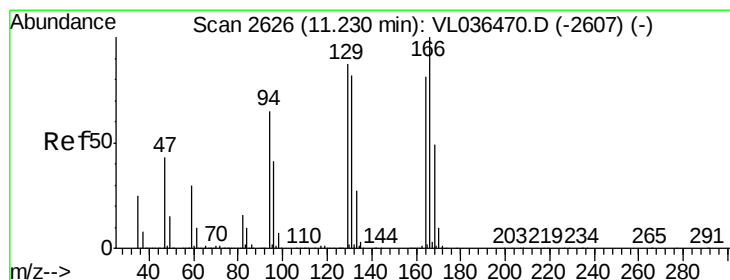
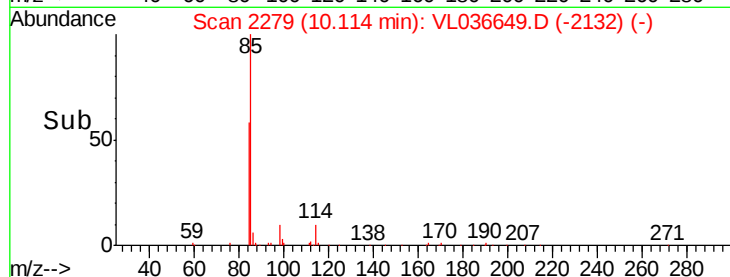
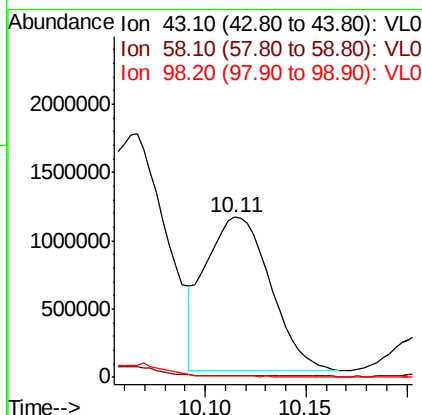
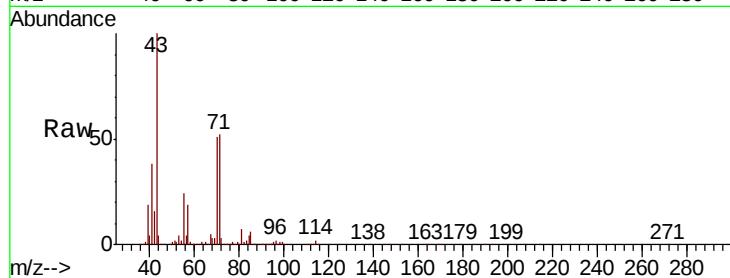




#51
2-Hexanone
Concen: 20.445 ppbv
RT: 10.11 min Scan# 2279
Delta R.T. -0.03 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

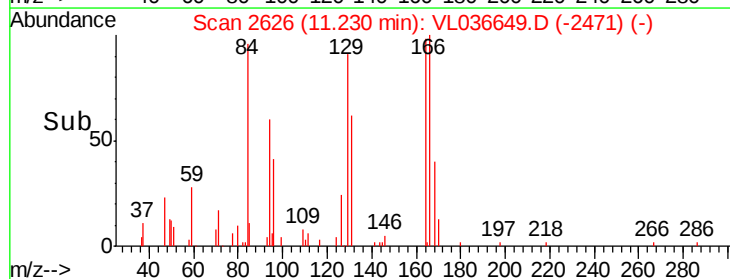
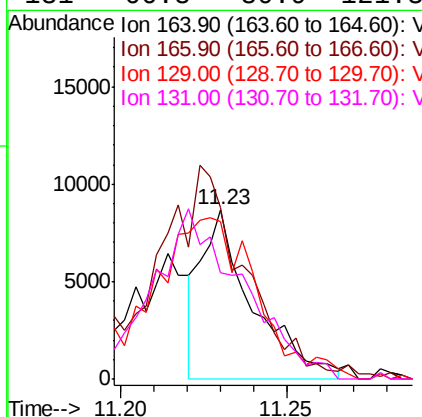
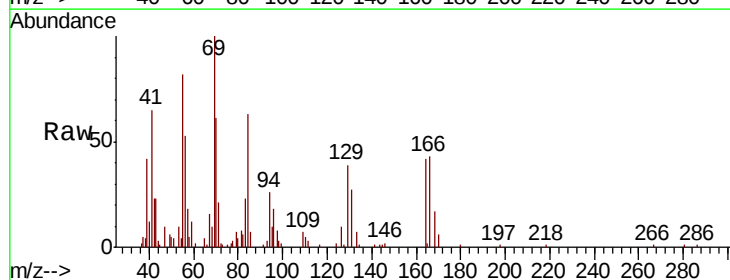
Instrument :
MSVOA_L
ClientSampleId :

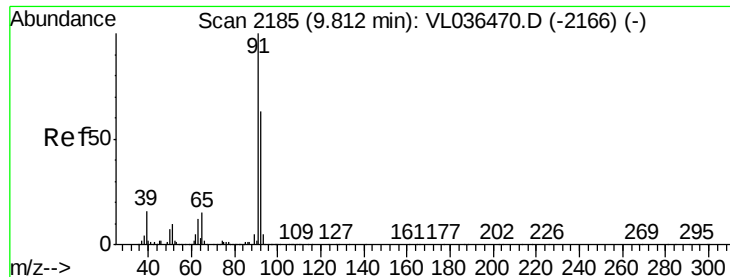
Tot Ion: 43 Resp: 2529314
Ion Ratio Lower Upper
43 100
58 1.5 37.7 56.5#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.079 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

Tgt Ion: 164 Resp: 9317
Ion Ratio Lower Upper
164 100
166 102.8 98.3 147.5
129 92.4 85.8 128.8
131 66.8 80.9 121.3#





#53

Toluene

Concen: 2.481 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

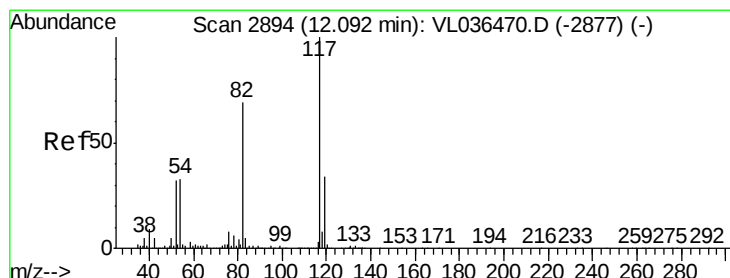
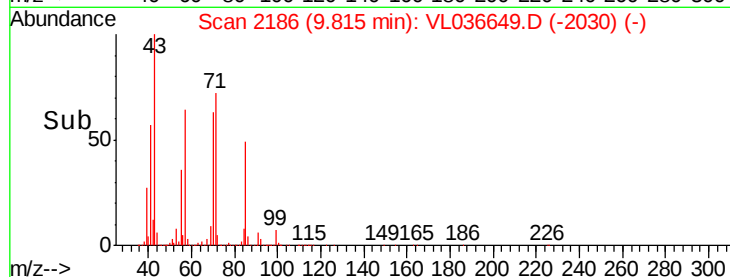
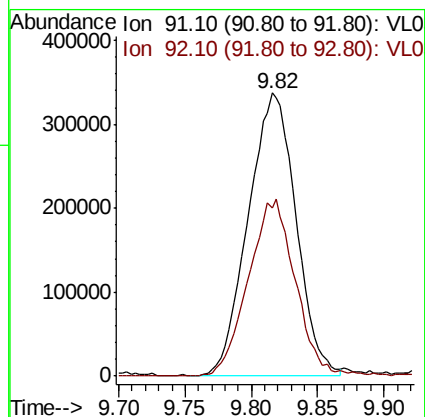
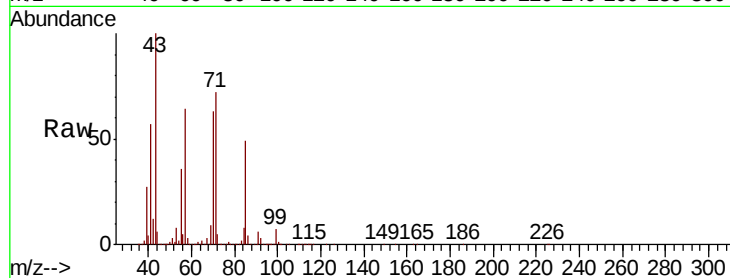
ClientSampleId :

Tot Ion: 91 Resp: 845945

Ion Ratio Lower Upper

91 100

92 61.7 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

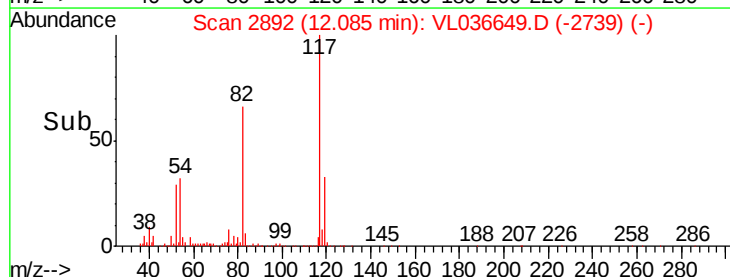
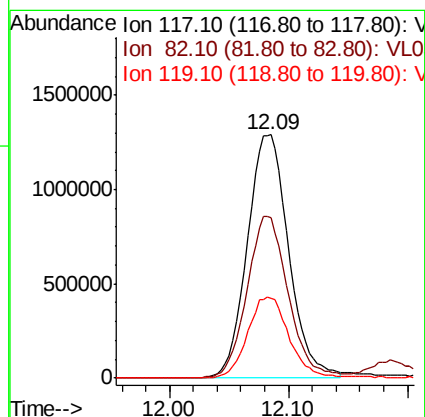
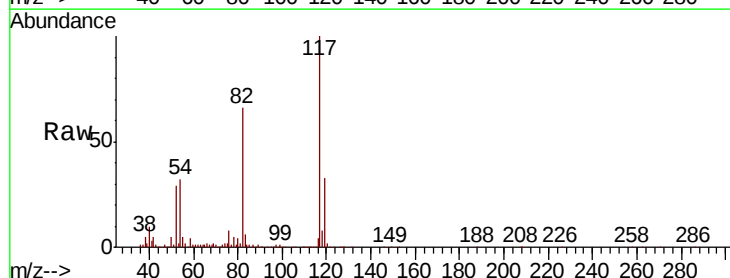
Tgt Ion: 117 Resp: 3105998

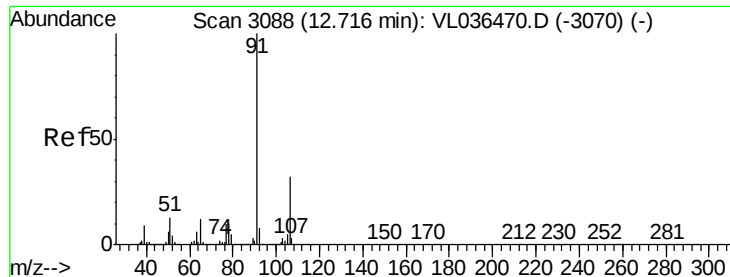
Ion Ratio Lower Upper

117 100

82 66.6 57.4 86.0

119 33.8 47.4 71.0#





#58

Ethyl Benzene

Concen: 1.329 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

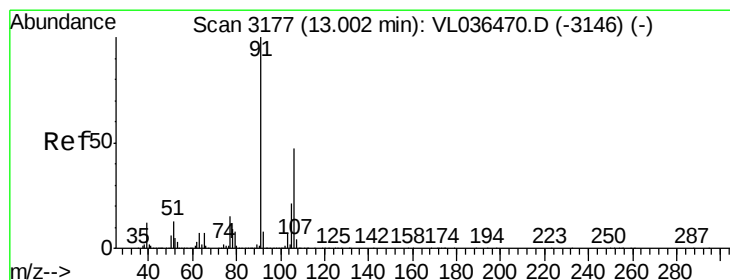
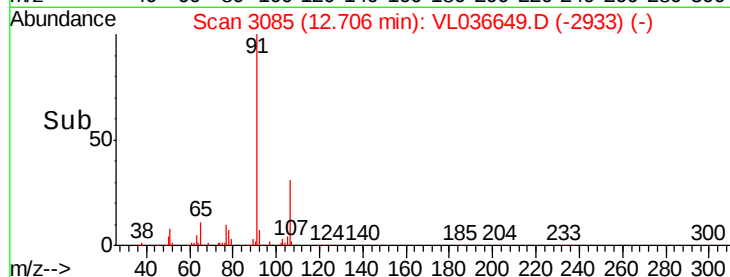
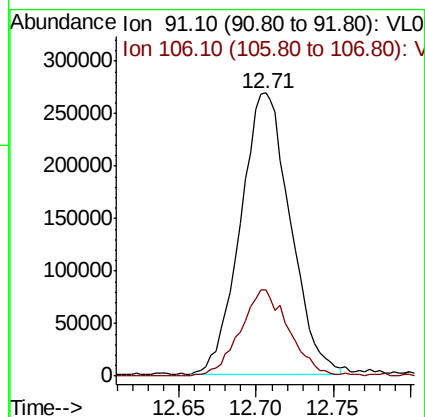
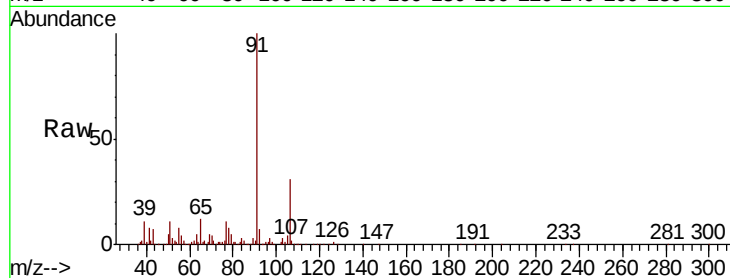
ClientSampleId :

Tot Ion: 91 Resp: 600355

Ion Ratio Lower Upper

91 100

106 30.6 25.3 37.9



#59

m/p-Xylene

Concen: 4.078 ppbv

RT: 12.96 min Scan# 3164

Delta R.T. -0.04 min

Lab File: VL036649.D

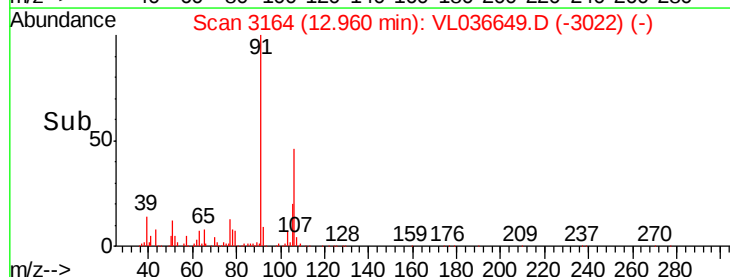
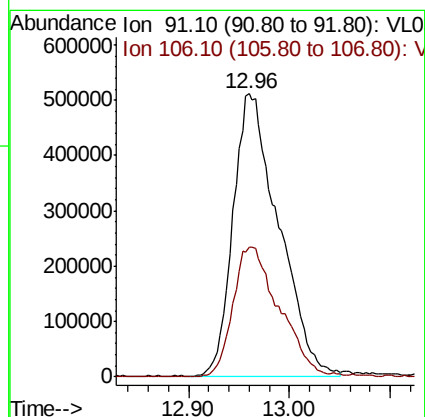
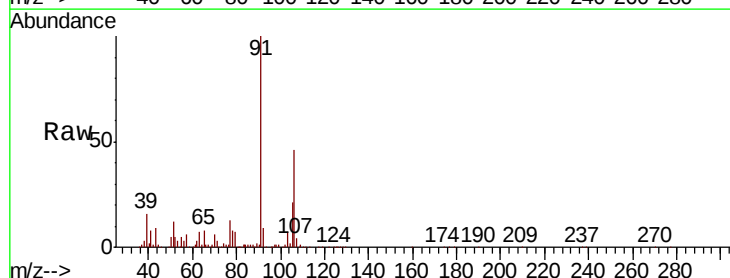
Acq: 2 Apr 2021 17:47

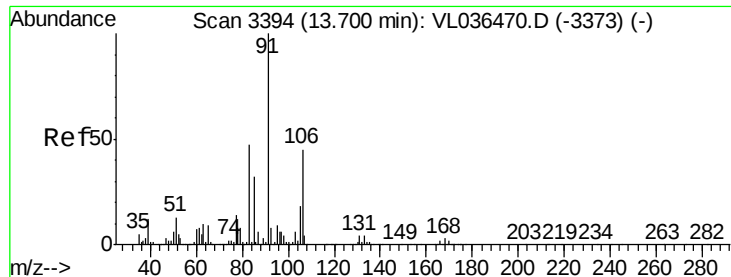
Tgt Ion: 91 Resp: 1607220

Ion Ratio Lower Upper

91 100

106 47.3 35.3 52.9

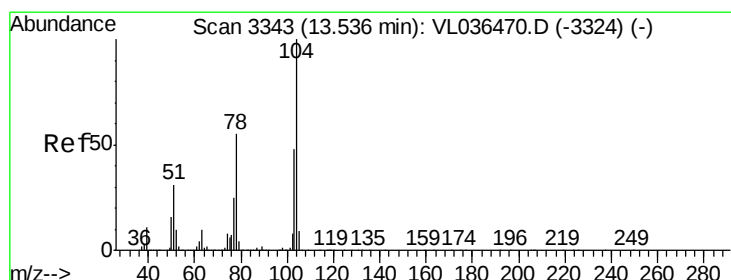
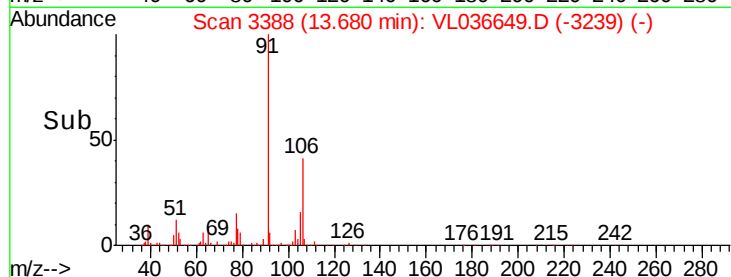
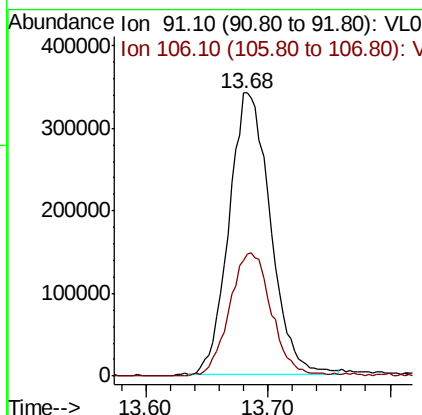
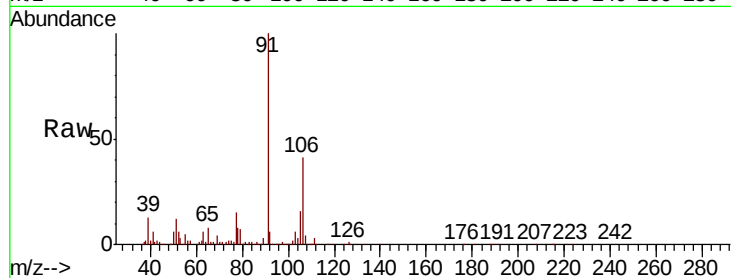




#60
o-Xylene
Concen: 2.090 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.02 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

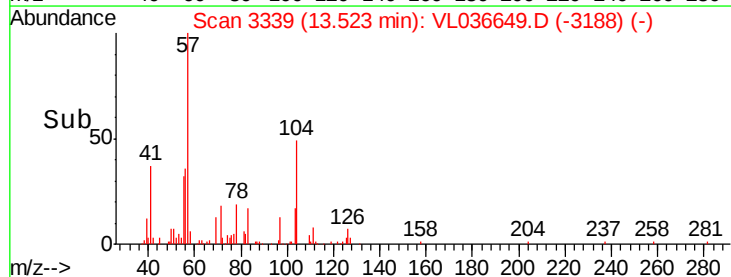
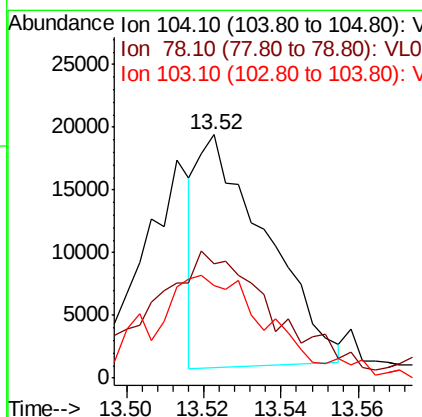
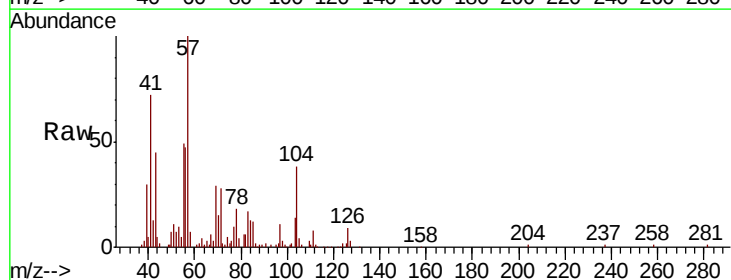
Instrument :
MSVOA_L
ClientSampleId :

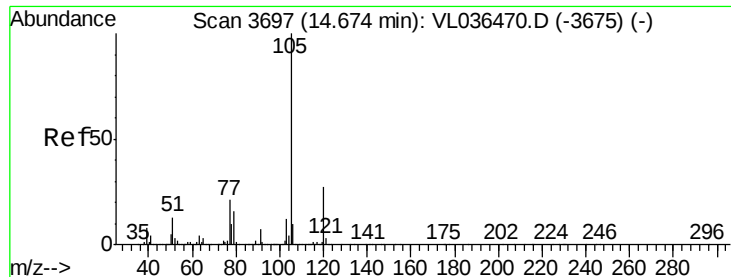
Tot Ion: 91 Resp: 796609
Ion Ratio Lower Upper
91 100
106 45.2 22.3 66.9



#61
Styrene
Concen: 0.119 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. -0.01 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

Tgt Ion: 104 Resp: 22723
Ion Ratio Lower Upper
104 100
78 107.9 43.8 65.8#
103 84.8 38.3 57.5#





#62

Isopropylbenzene

Concen: 0.099 ppbv

RT: 14.67 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

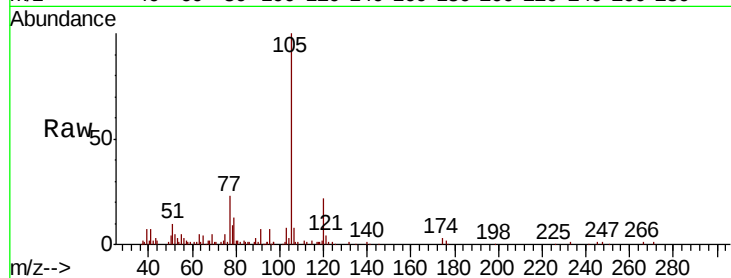
ClientSampleId :

Tot Ion:105 Resp: 50863

Ion Ratio Lower Upper

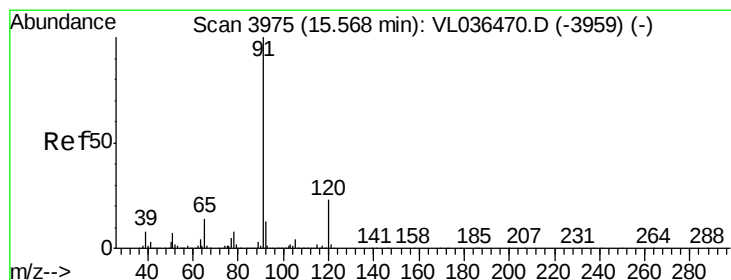
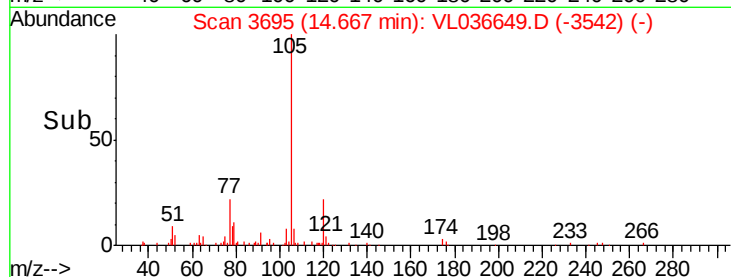
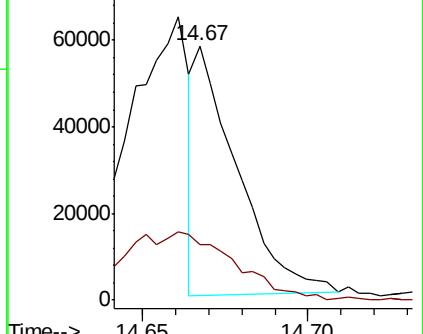
105 100

120 0.0 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.283 ppbv

RT: 15.55 min Scan# 3971

Delta R.T. -0.01 min

Lab File: VL036649.D

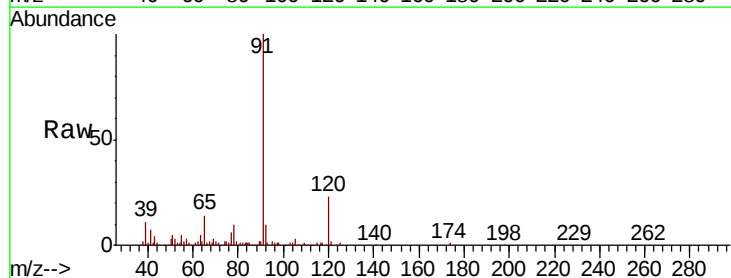
Acq: 2 Apr 2021 17:47

Tgt Ion:120 Resp: 35567

Ion Ratio Lower Upper

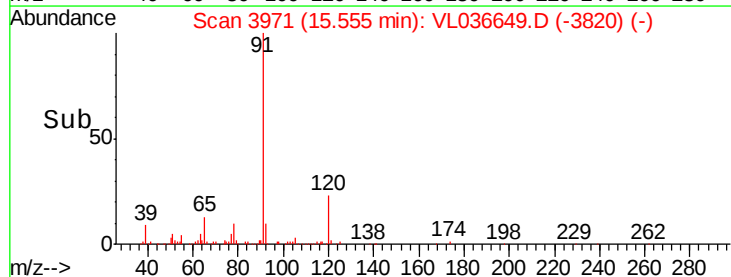
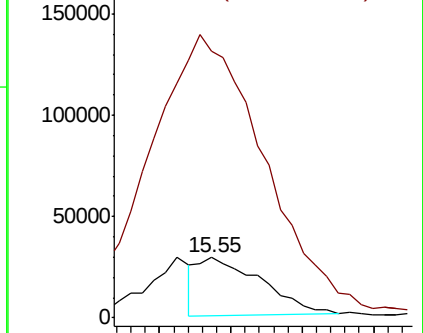
120 100

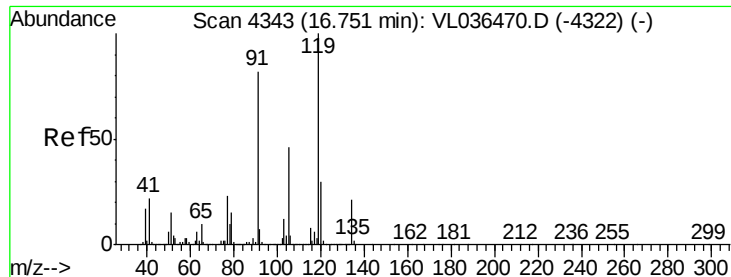
91 910.2 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.351 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampled :

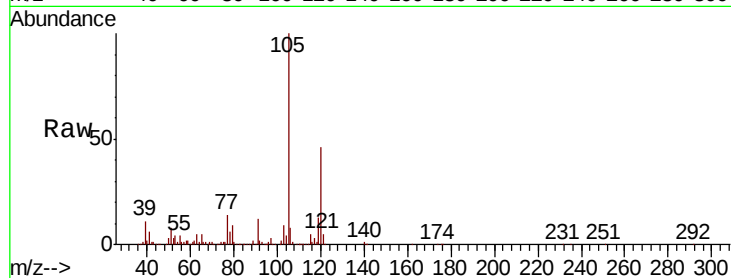
Tot Ion:119 Resp: 156360

Ion Ratio Lower Upper

119 100

91 112.9 67.5 101.3#

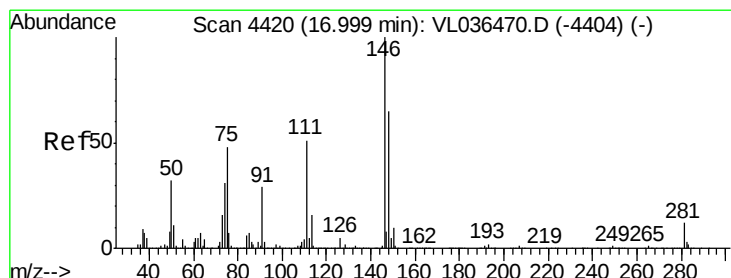
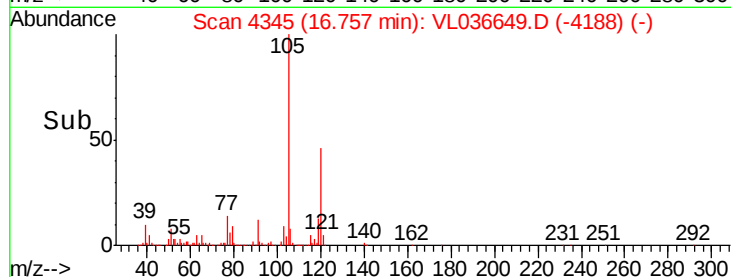
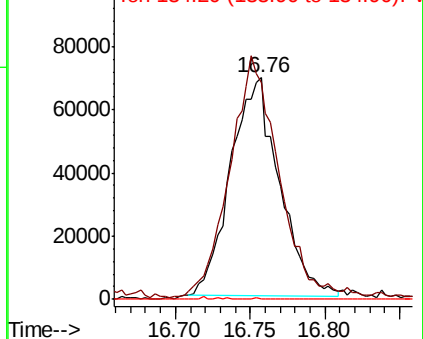
134 0.0 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.039 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. 0.17 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

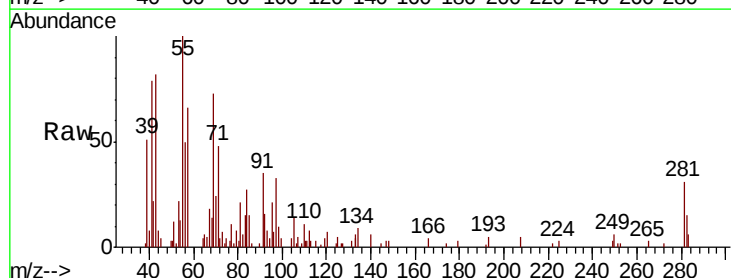
Tgt Ion: 91 Resp: 1937

Ion Ratio Lower Upper

91 100

126 21.4 13.5 20.3#

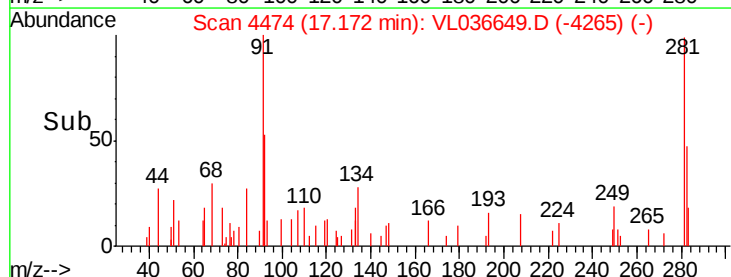
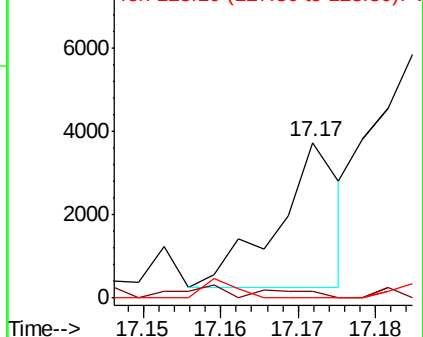
128 0.0 4.2 6.4#

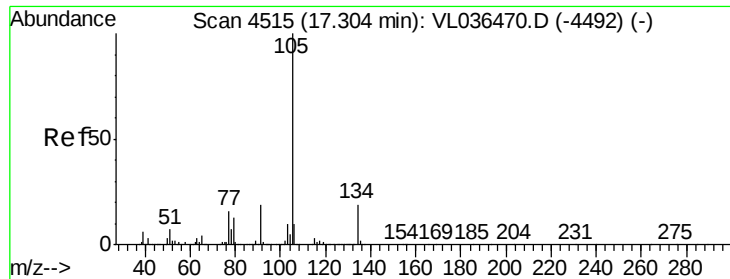


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.053 ppbv

RT: 17.29 min Scan# 4510

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

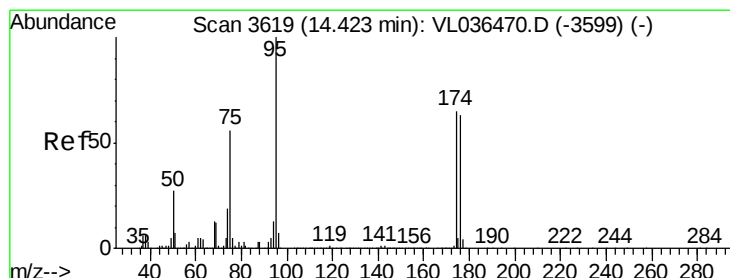
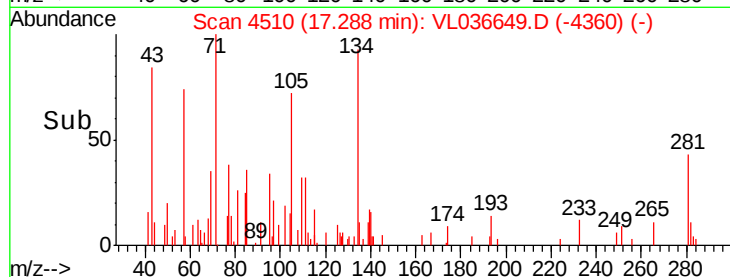
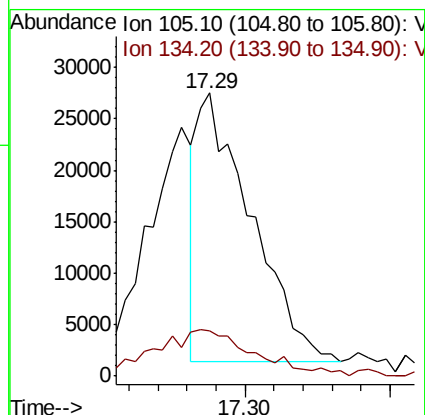
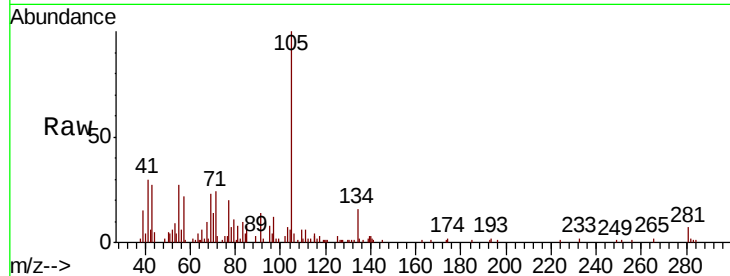
ClientSampleId :

Tot Ion:105 Resp: 33360

Ion Ratio Lower Upper

105 100

134 35.2 14.7 22.1#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.927 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

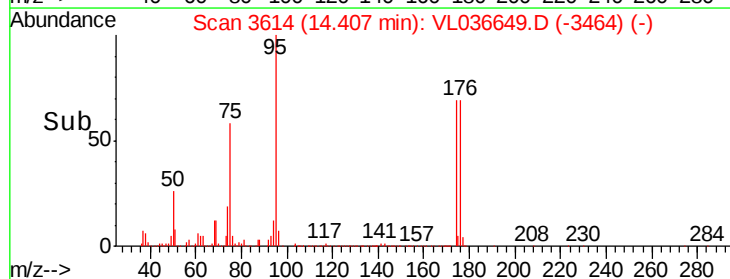
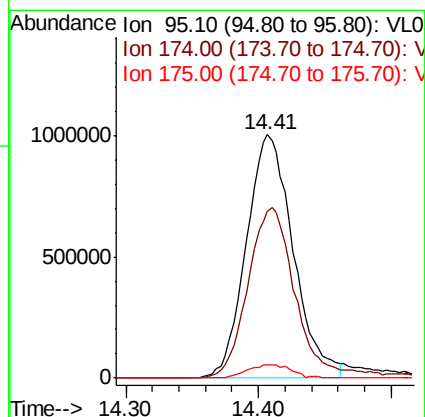
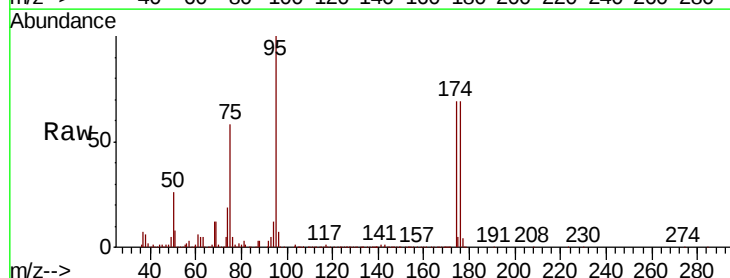
Tgt Ion: 95 Resp: 2457462

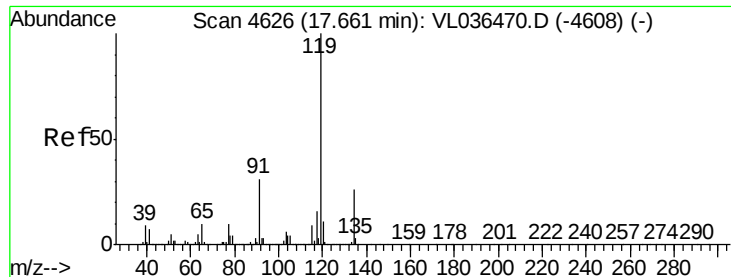
Ion Ratio Lower Upper

95 100

174 74.2 51.0 76.6

175 5.6 3.9 5.9





#69

p-Isopropyltoluene

Concen: 0.079 ppbv

RT: 17.64 min Scan# 4619

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampled :

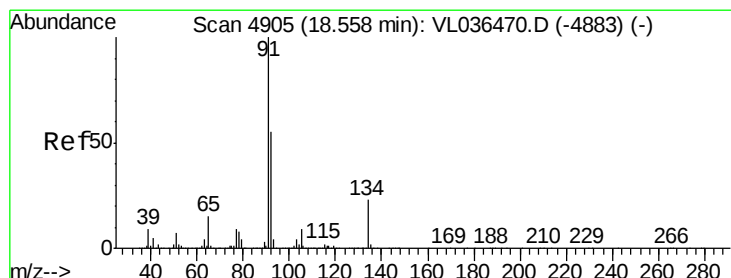
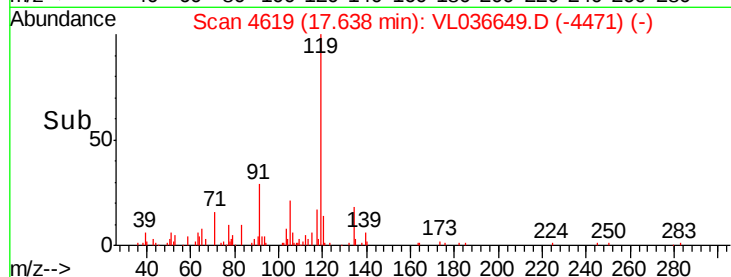
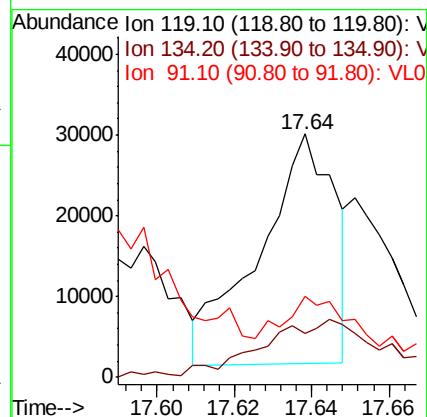
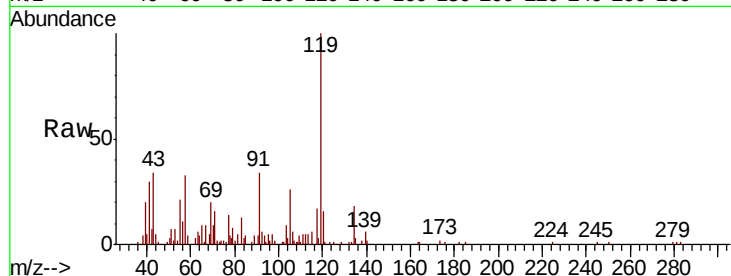
Tot Ion: 119 Resp: 38576

Ion Ratio Lower Upper

119 100

134 42.0 20.6 30.8#

91 53.1 25.0 37.6#



#70

n-Butylbenzene

Concen: 0.090 ppbv

RT: 18.54 min Scan# 4900

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

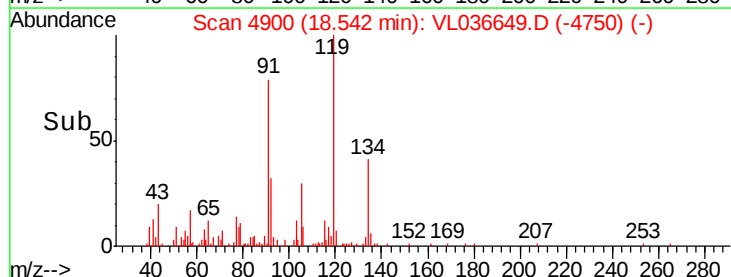
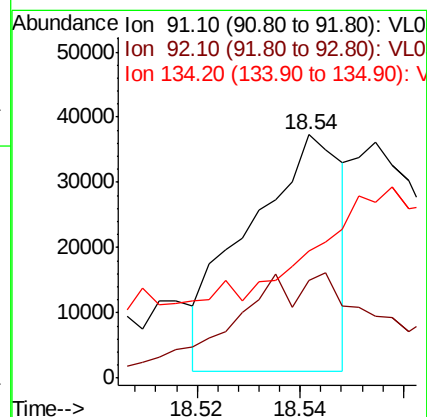
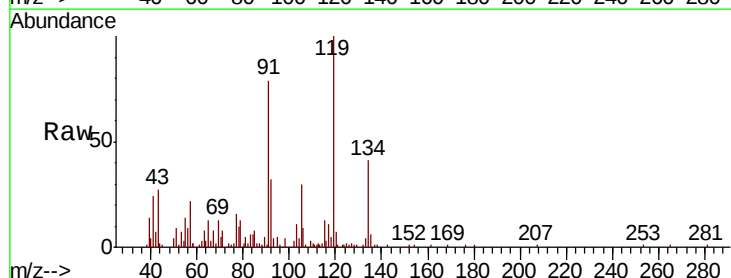
Tgt Ion: 91 Resp: 45835

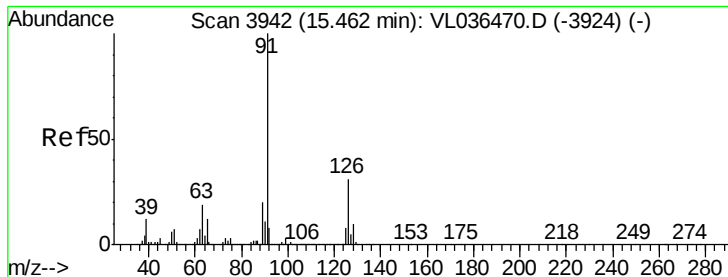
Ion Ratio Lower Upper

91 100

92 87.2 43.8 65.8#

134 0.0 18.0 27.0#

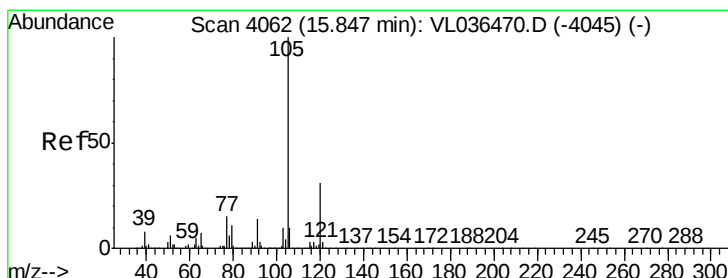
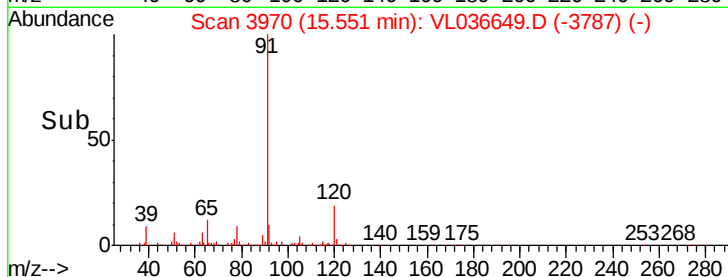
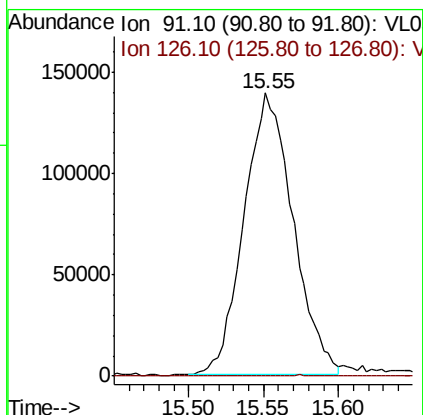
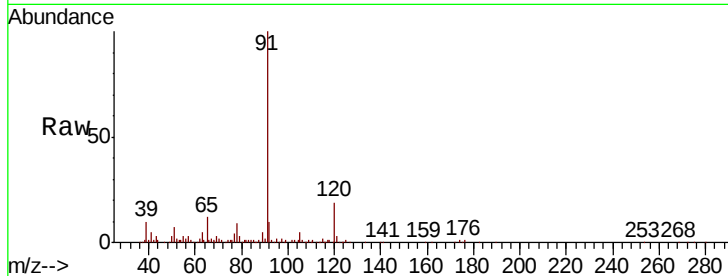




#71
2-Chlorotoluene
Concen: 0.821 ppbv
RT: 15.55 min Scan# 3970
Delta R.T. 0.09 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

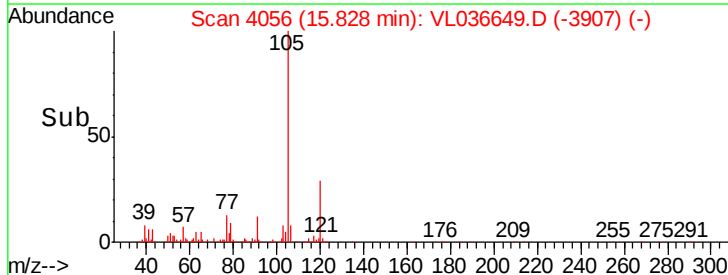
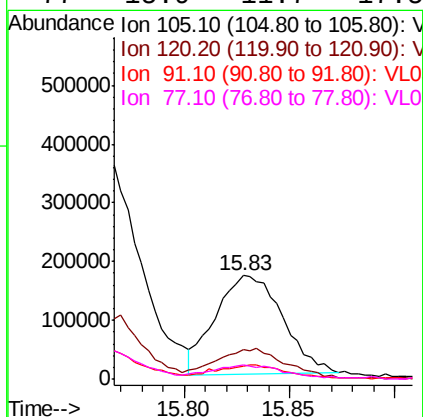
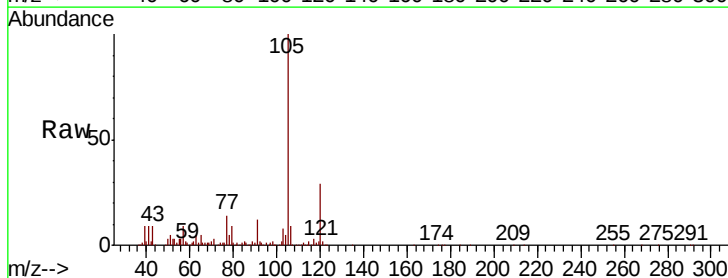
Instrument :
MSVOA_L
ClientSampleId :

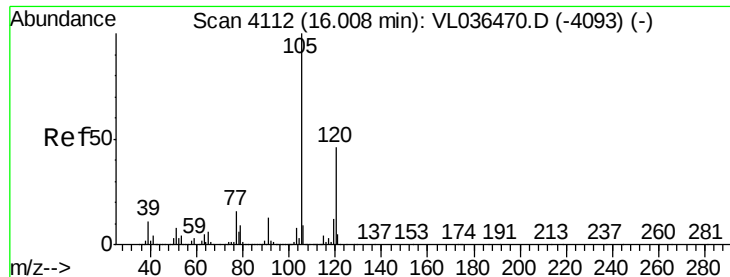
Tot Ion: 91 Resp: 315722
Ion Ratio Lower Upper
91 100
126 0.3 12.1 48.5#



#72
4-Ethyltoluene
Concen: 0.878 ppbv
RT: 15.83 min Scan# 4056
Delta R.T. -0.02 min
Lab File: VL036649.D
Acq: 2 Apr 2021 17:47

Tgt Ion: 105 Resp: 366784
Ion Ratio Lower Upper
105 100
120 33.0 24.0 36.0
91 14.2 11.0 16.4
77 15.9 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 1.217 ppbv

RT: 15.99 min Scan# 4106

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

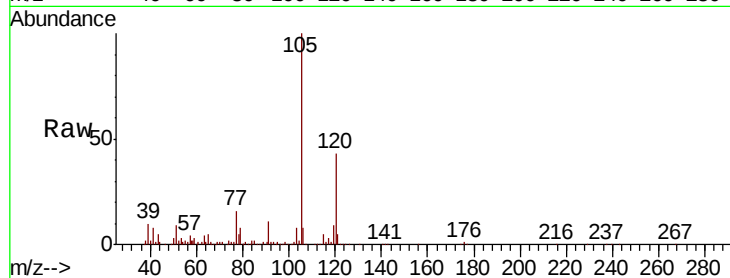
ClientSampleId :

Tot Ion:105 Resp: 474240

Ion Ratio Lower Upper

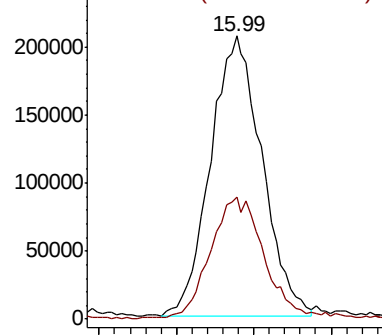
105 100

120 42.7 36.6 54.8

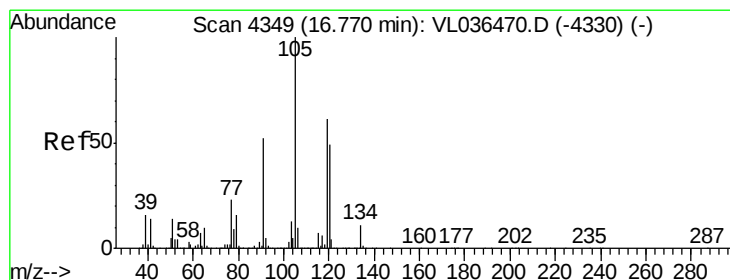
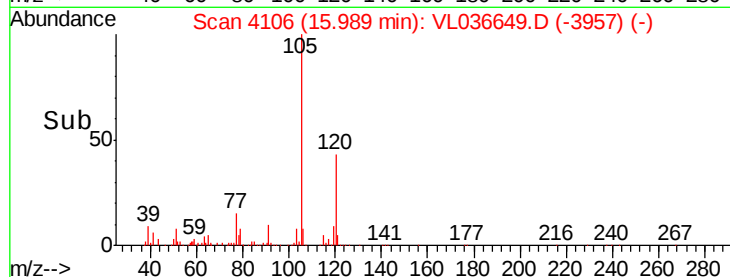


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



Time-->



#74

1,2,4-Trimethylbenzene

Concen: 3.431 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Tgt Ion:105 Resp: 1431108

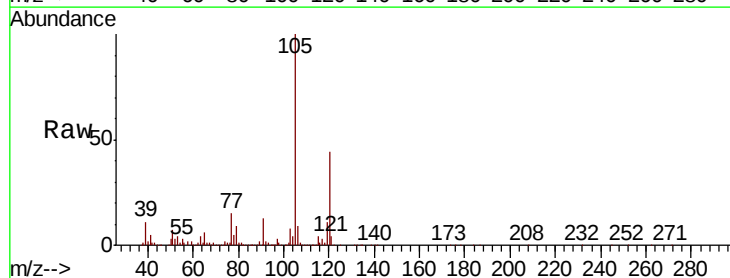
Ion Ratio Lower Upper

105 100

120 43.9 39.2 58.8

91 12.9 42.6 64.0#

77 14.7 18.6 28.0#

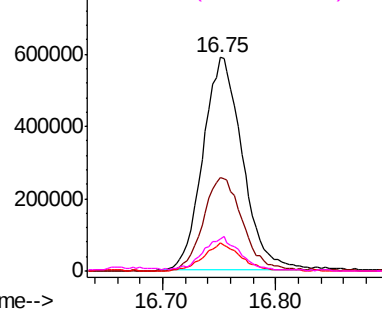


Abundance Ion 105.10 (104.80 to 105.80): V

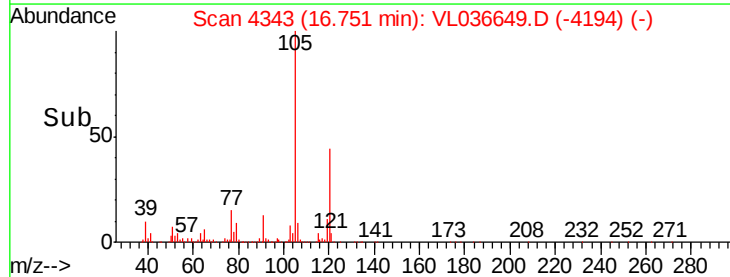
Ion 120.20 (119.90 to 120.90): V

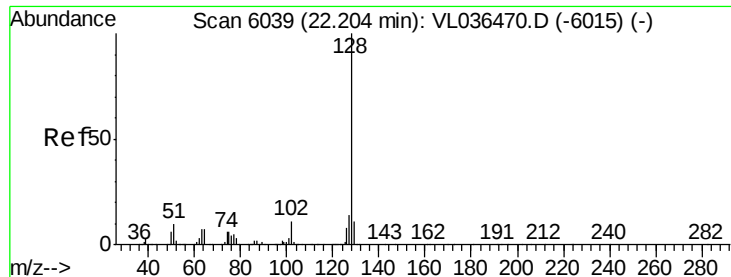
Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time-->





#79

Naphthalene

Concen: 0.134 ppbv

RT: 22.20 min Scan# 6037

Delta R.T. -0.01 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

Instrument :

MSVOA_L

ClientSampleId :

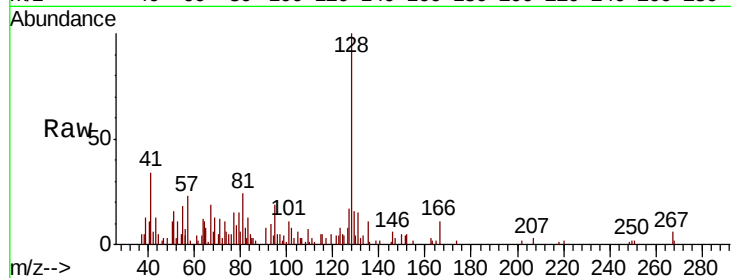
Tot Ion:128 Resp: 32568

Ion Ratio Lower Upper

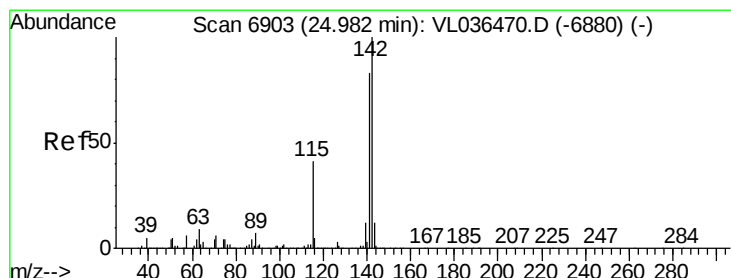
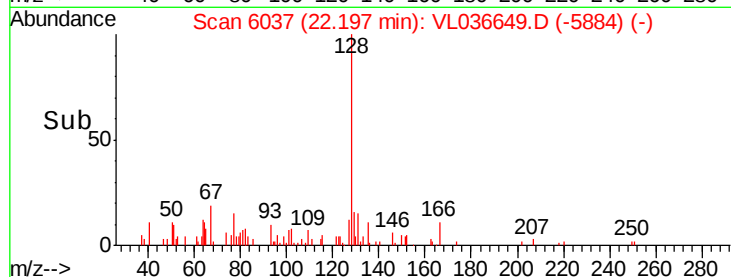
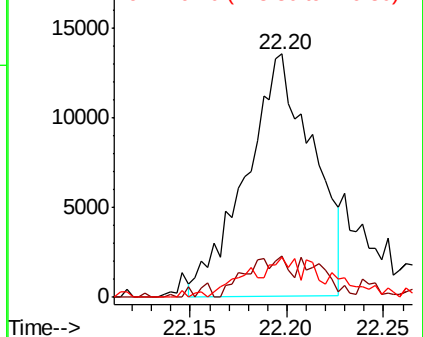
128 100

127 15.3 10.9 16.3

129 17.3 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: 0.057 ppbv

RT: 24.97 min Scan# 6898

Delta R.T. -0.02 min

Lab File: VL036649.D

Acq: 2 Apr 2021 17:47

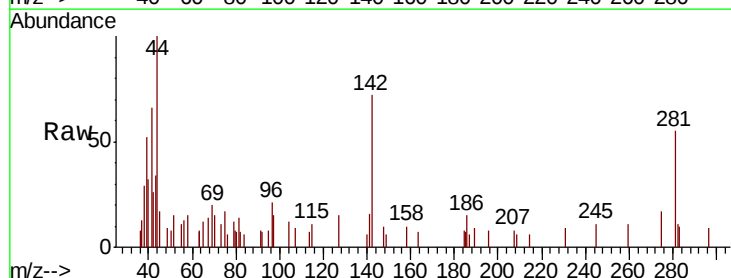
Tgt Ion:142 Resp: 2713

Ion Ratio Lower Upper

142 100

141 63.0 67.8 101.8#

115 34.8 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

