

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036603.D
 Acq On : 31 Mar 2021 15:48
 Operator : SY/AP
 Sample : M1840-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:27:15 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	1456680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3438606	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3135554	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2534576	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.96	51	275448	1.012 ppbv	# 65
4) Chloromethane	3.13	50	4998	0.052 ppbv	# 88
5) Vinyl Chloride	3.25	62	22738	0.230 ppbv	# 65
9) Propene	3.02	41	160735	1.853 ppbv	# 81
10) Heptane	8.13	43	85274	0.386 ppbv	95
11) Trichlorofluoromethane	3.95	101	39206	0.162 ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5515	0.036 ppbv	# 39
13) Ethanol	3.60	45	799830	77.412 ppbv	94
15) Acetone	3.84	43	13635743	95.108 ppbv	# 84
16) 1,3-Butadiene	3.31	39	986875	9.887 ppbv	# 20
17) tert-Butyl alcohol	4.29	59	661953	5.304 ppbv	97
19) Isopropyl Alcohol	3.97	45	1200814	15.226 ppbv	# 89
20) Methylene Chloride	4.35	84	567219	8.450 ppbv	92
23) Vinyl Acetate	5.06	43	20350	0.083 ppbv	# 76
25) Ethyl Acetate	5.69	43	675104	1.981 ppbv	# 80
26) Hexane	5.69	57	874676	5.530 ppbv	# 46
27) Carbon Disulfide	4.55	76	42794	0.275 ppbv	# 67
28) Methyl tert-Butyl Ether	5.04	73	5189	0.028 ppbv	# 52
30) Cyclohexane	7.13	84	7581	0.059 ppbv	# 1
32) 1,1,1-Trichloroethane	6.51	97	412992	1.620 ppbv	95
34) 2-Butanone	5.24	43	1989691	11.854 ppbv	96
36) Benzene	6.89	78	158864	0.501 ppbv	92
37) 1,2-Dichloroethane	6.31	62	2392385	12.817 ppbv	100
38) Trichloroethene	7.84	130	3976	0.032 ppbv	# 48
39) 1,2-Dichloropropane	7.18	63	925412	7.194 ppbv	# 23
41) Tetrahydrofuran	6.07	42	5754	0.074 ppbv	# 16
42) Bromodichloromethane	7.79	83	15994	0.063 ppbv	# 96
44) 2,2,4-Trimethylpentane	7.87	57	183373	0.329 ppbv	# 79
51) 2-Hexanone	10.16	43	7895	0.064 ppbv	# 1
52) Tetrachloroethene	11.23	164	12996	0.111 ppbv	# 78
53) Toluene	9.81	91	834464	2.471 ppbv	99
58) Ethyl Benzene	12.72	91	618131	1.355 ppbv	96
59) m/p-Xylene	12.97	91	2360224	5.932 ppbv	97
60) o-Xylene	13.70	91	1215498	3.159 ppbv	99
61) Styrene	13.53	104	12040	0.062 ppbv	# 1
62) Isopropylbenzene	14.67	105	114226	0.220 ppbv	95
64) n-propylbenzene	15.57	120	58303	0.460 ppbv	# 1
65) tert-Butylbenzene	16.77	119	243014	0.541 ppbv	# 62
66) Benzyl Chloride	17.21	91	18568	0.374 ppbv	# 67
67) sec-Butylbenzene	17.29	105	54308	0.086 ppbv	# 79
69) p-Isopropyltoluene	17.66	119	59684	0.121 ppbv	# 93

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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

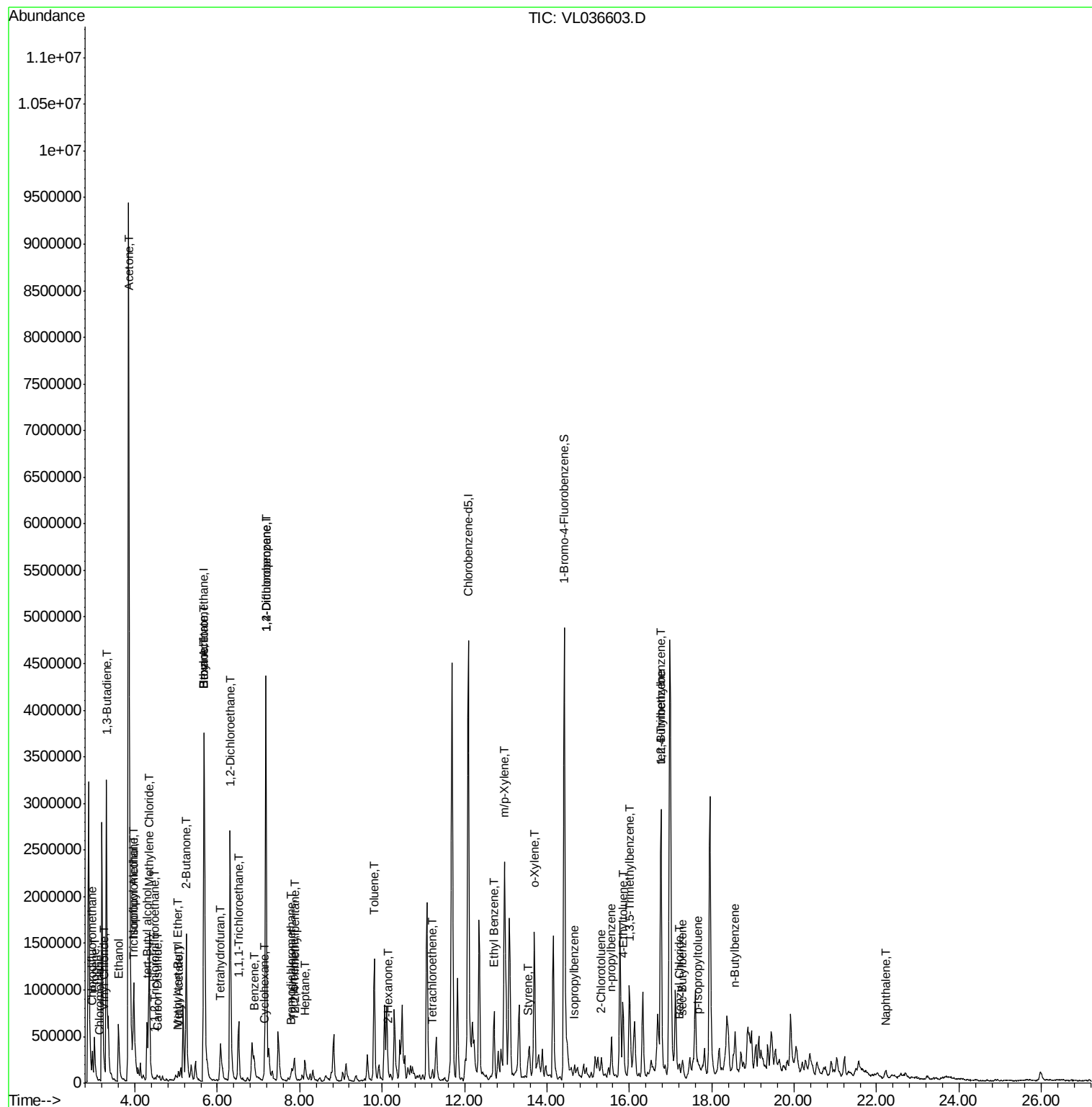
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.56	91	156647	0.305	ppbv #	39
71) 2-Chlorotoluene	15.33	91	17118	0.044	ppbv #	49
72) 4-Ethyltoluene	15.84	105	550070	1.305	ppbv	98
73) 1,3,5-Trimethylbenzene	16.00	105	729660	1.854	ppbv	94
74) 1,2,4-Trimethylbenzene	16.77	105	2226636	5.288	ppbv #	69
79) Naphthalene	22.21	128	9418	0.038	ppbv #	79

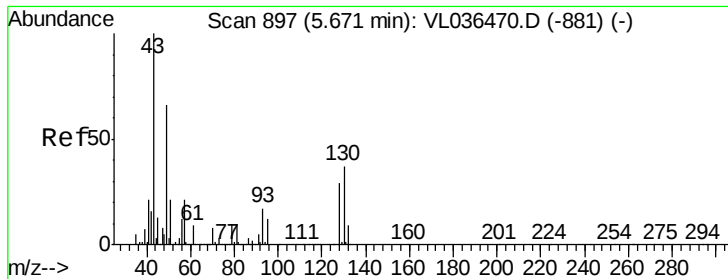
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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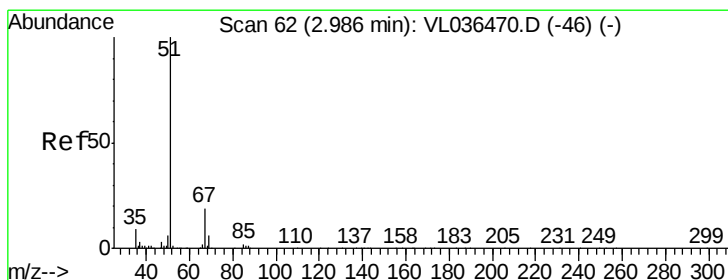
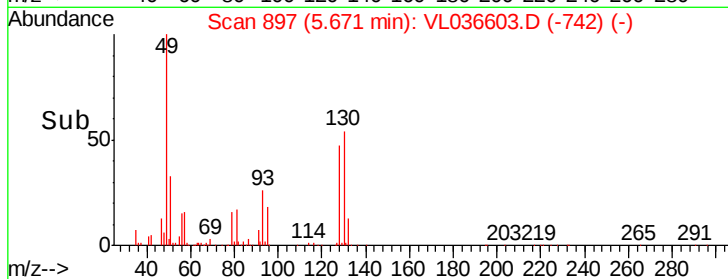
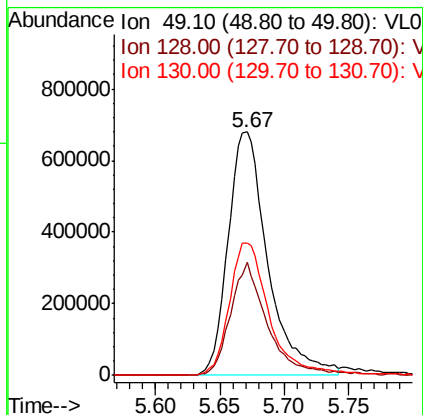
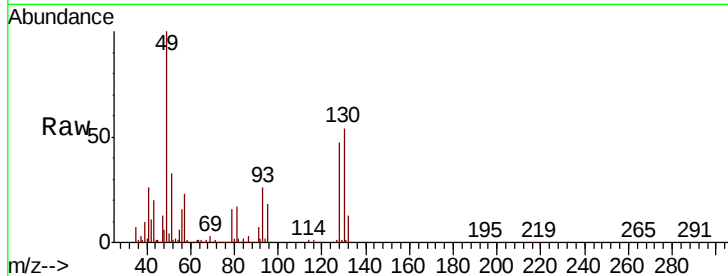


#1

Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Instrument :
 MSVOA_L
 ClientSampled :

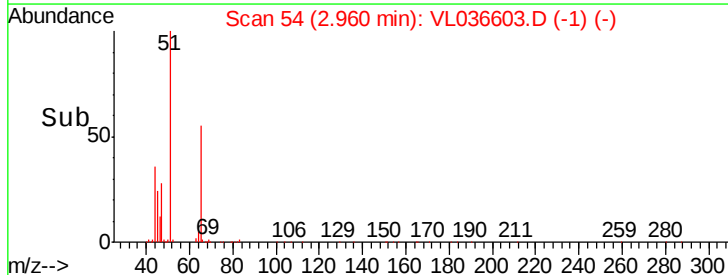
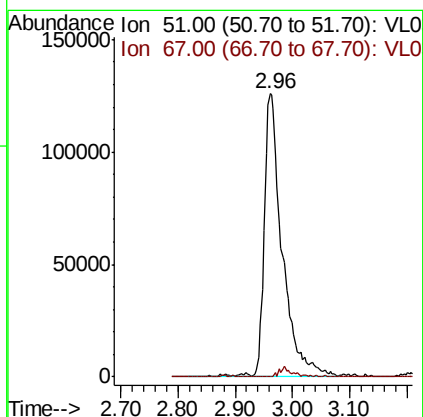
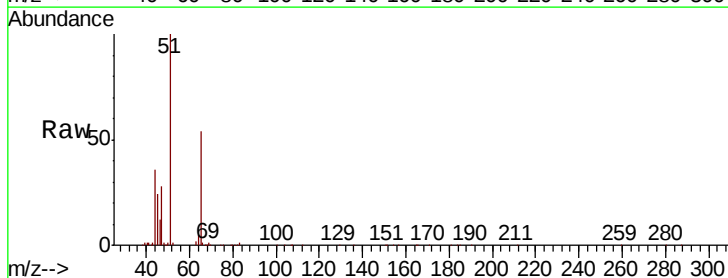
Tot Ion: 49 Resp: 1456680
 Ion Ratio Lower Upper
 49 100
 128 43.8 23.5 70.6
 130 55.4 29.1 87.4

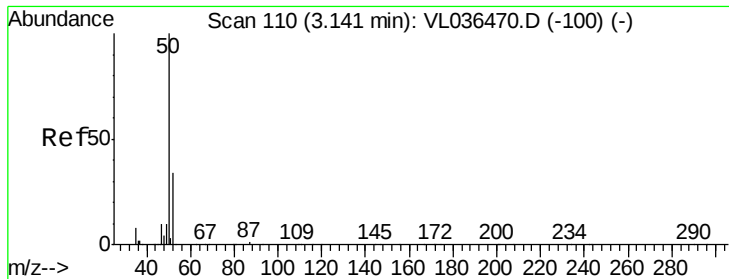


#3

Chlorodifluoromethane
 Concen: 1.012 ppbv
 RT: 2.96 min Scan# 54
 Delta R.T. -0.03 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Tgt Ion: 51 Resp: 275448
 Ion Ratio Lower Upper
 51 100
 67 2.6 14.7 22.1#





#4

Chloromethane

Concen: 0.052 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

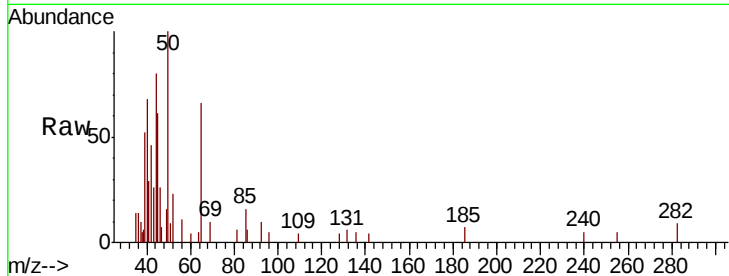
ClientSampleId :

Tot Ion: 50 Resp: 4998

Ion Ratio Lower Upper

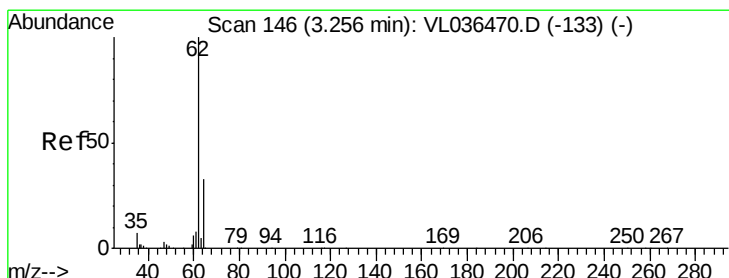
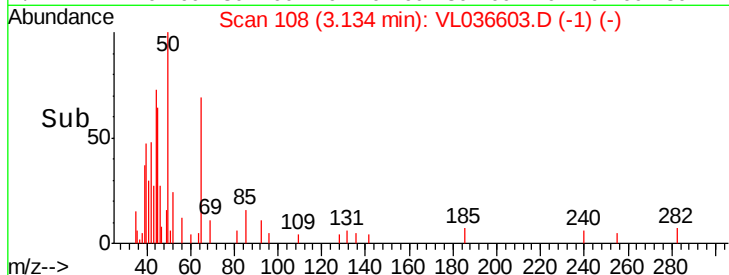
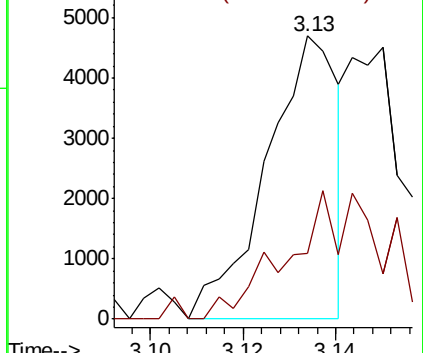
50 100

52 26.9 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.230 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL036603.D

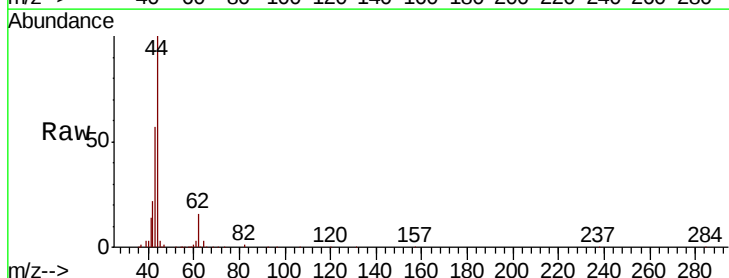
Acq: 31 Mar 2021 15:48

Tgt Ion: 62 Resp: 22738

Ion Ratio Lower Upper

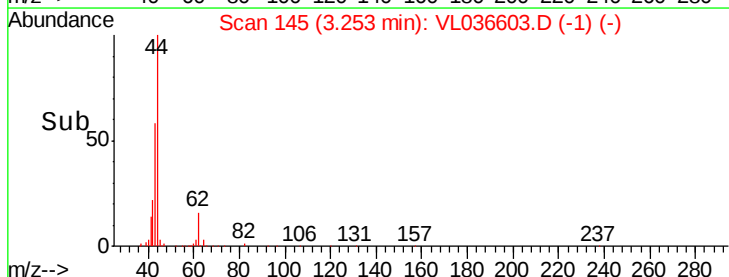
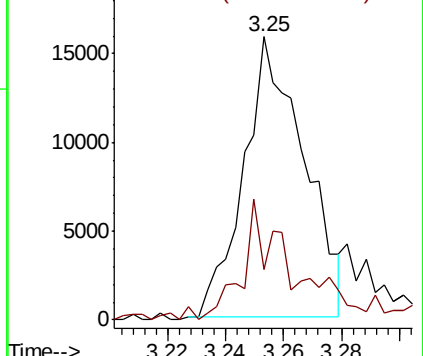
62 100

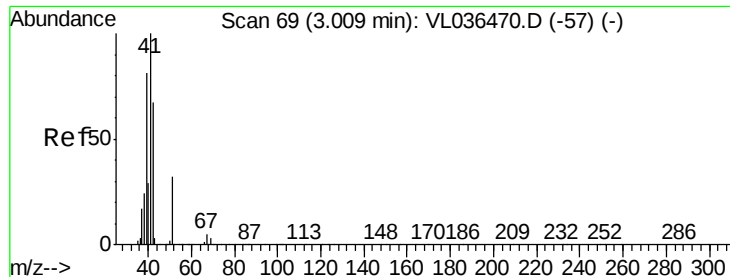
64 13.4 26.4 39.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 1.853 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

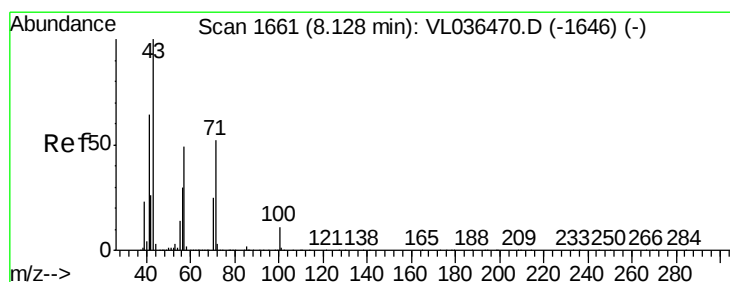
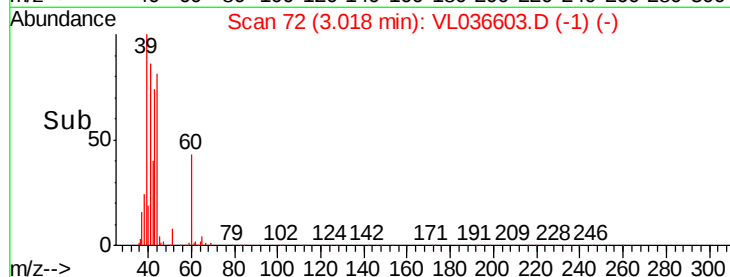
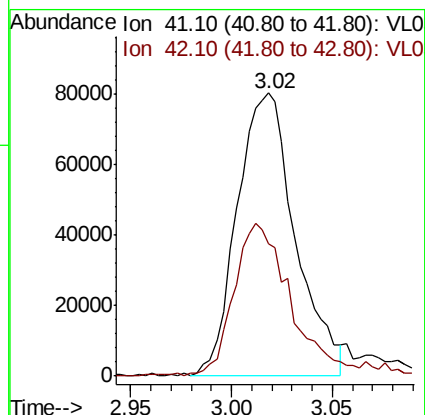
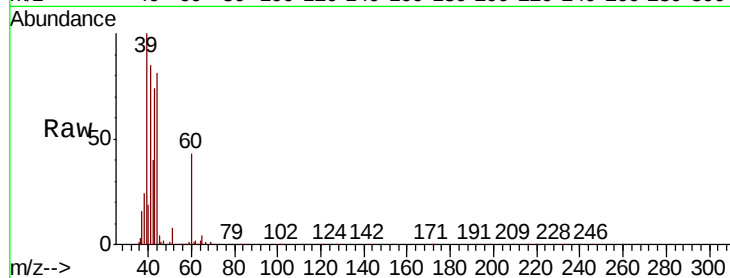
ClientSampleId :

Tot Ion: 41 Resp: 160735

Ion Ratio Lower Upper

41 100

42 55.8 57.0 85.4#



#10

Heptane

Concen: 0.386 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL036603.D

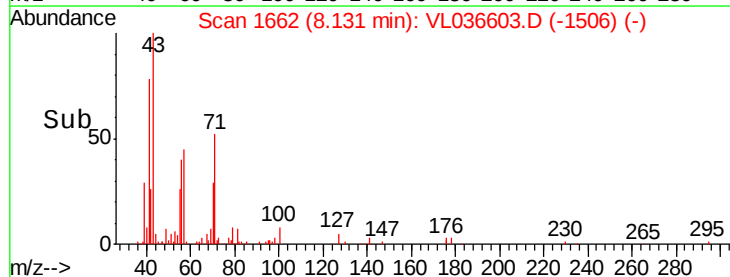
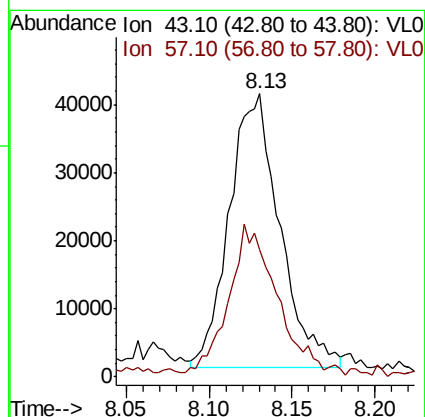
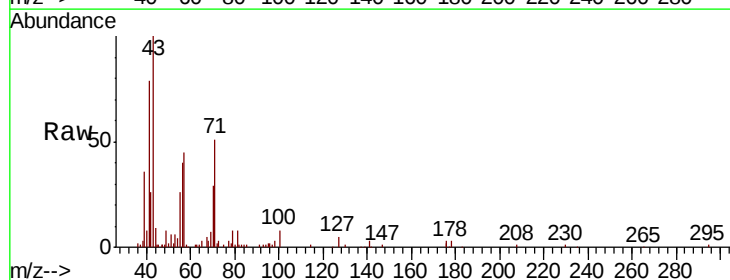
Acq: 31 Mar 2021 15:48

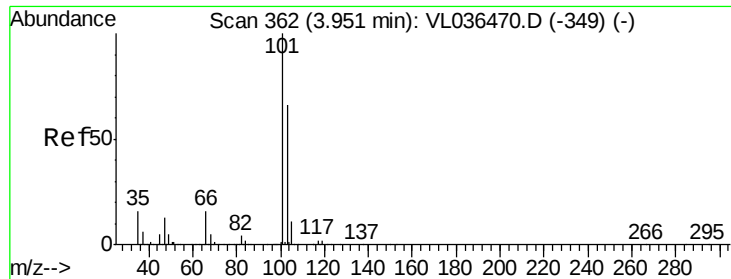
Tgt Ion: 43 Resp: 85274

Ion Ratio Lower Upper

43 100

57 52.2 39.0 58.6

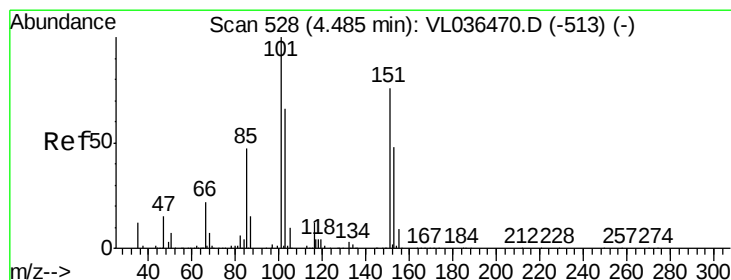
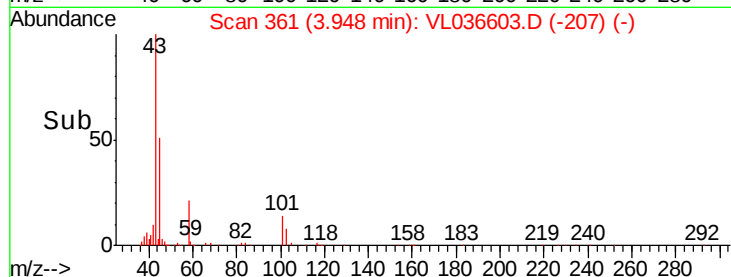
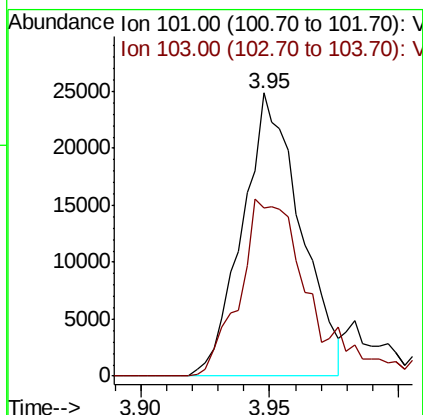
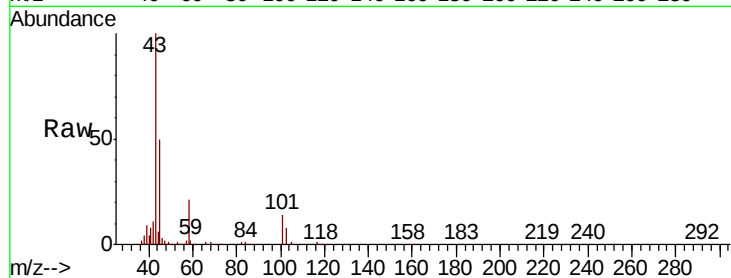




#11
 Trichlorofluoromethane
 Concen: 0.162 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

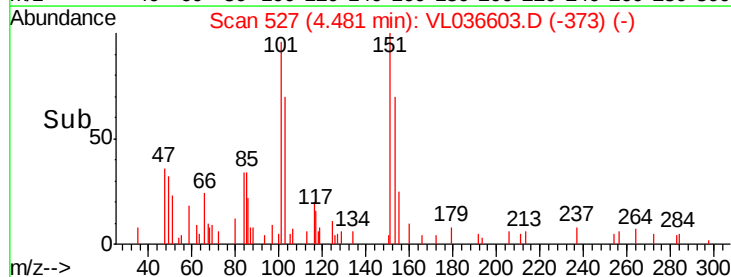
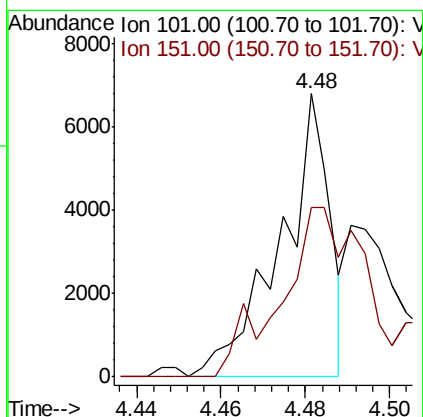
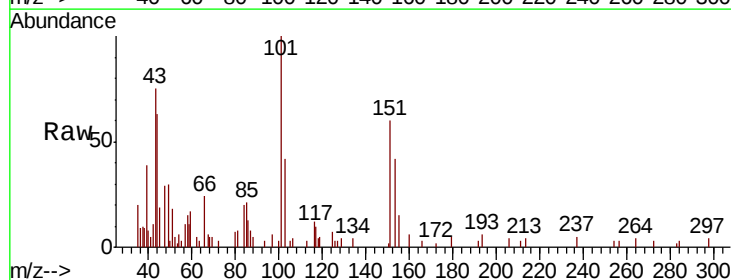
Instrument :
 MSVOA_L
 ClientSampleId :

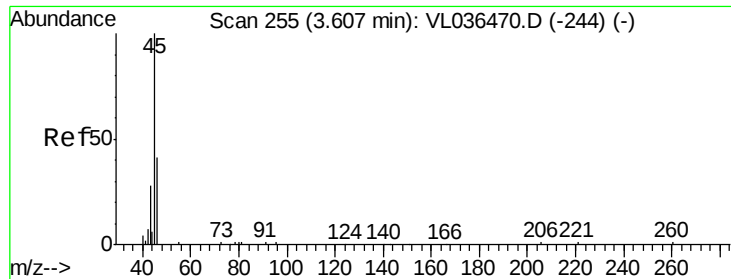
Tot Ion:101 Resp: 39206
 Ion Ratio Lower Upper
 101 100
 103 59.3 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Tgt Ion:101 Resp: 5515
 Ion Ratio Lower Upper
 101 100
 151 128.3 60.9 91.3#

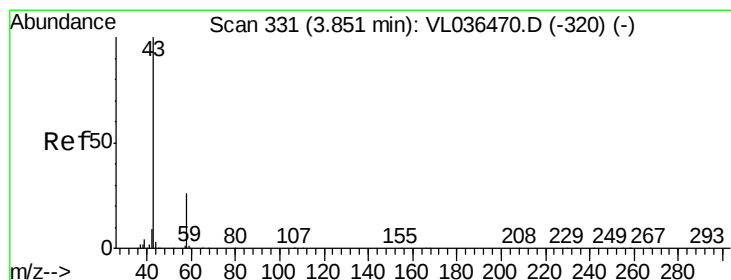
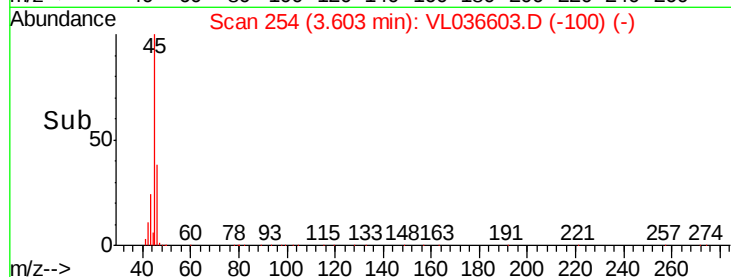
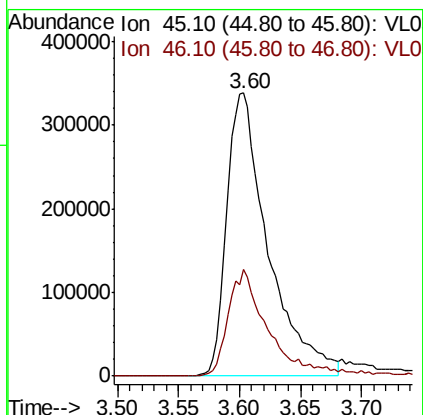
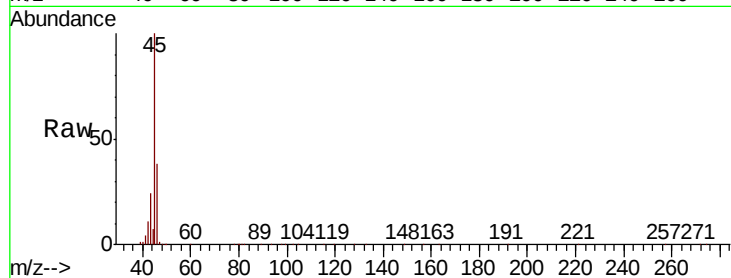




#13
Ethanol
Concen: 77.412 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

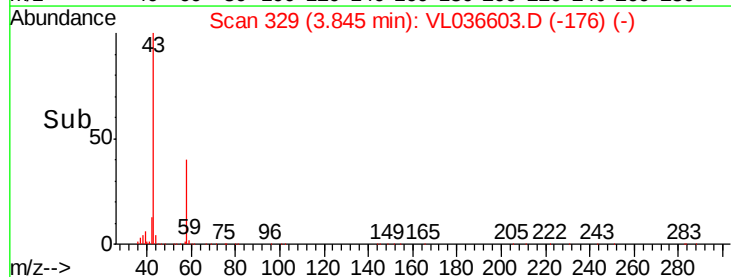
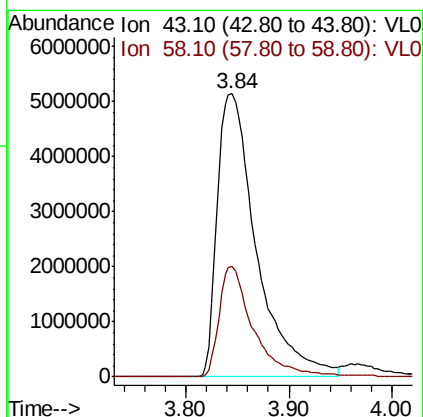
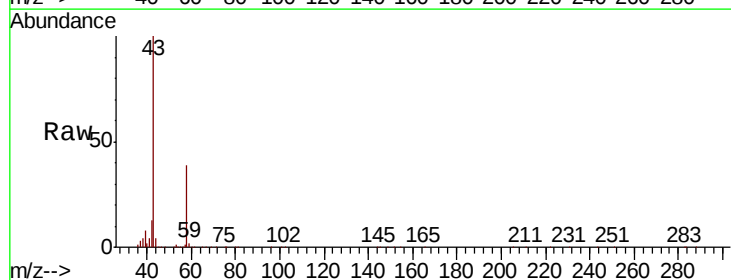
Instrument :
MSVOA_L
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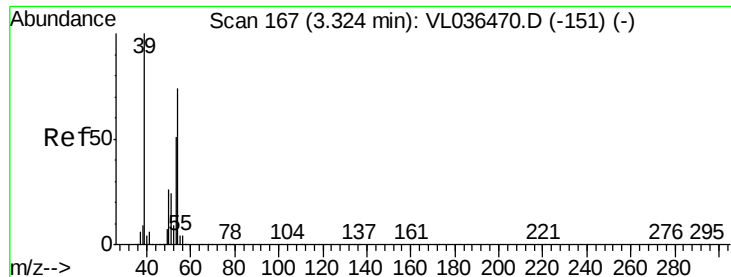
Tot Ion: 45 Resp: 799830
Ion Ratio Lower Upper
45 100
46 37.8 16.6 66.2



#15
Acetone
Concen: 95.108 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

Tgt Ion: 43 Resp: 13635743
Ion Ratio Lower Upper
43 100
58 34.8 21.2 31.8#

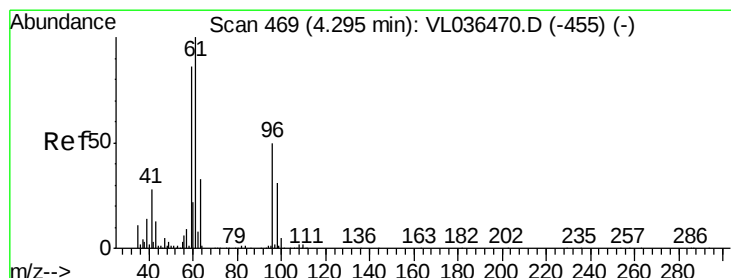
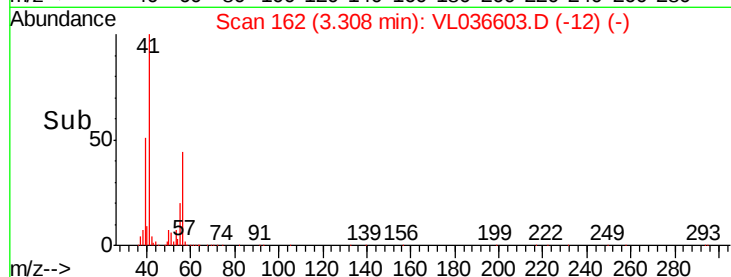
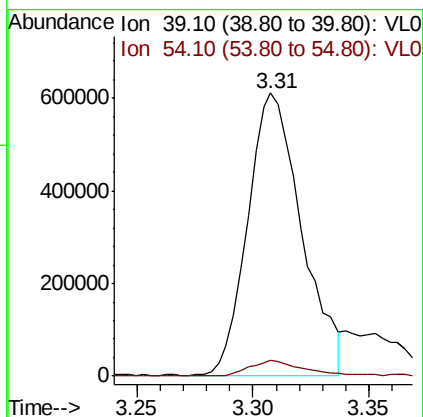
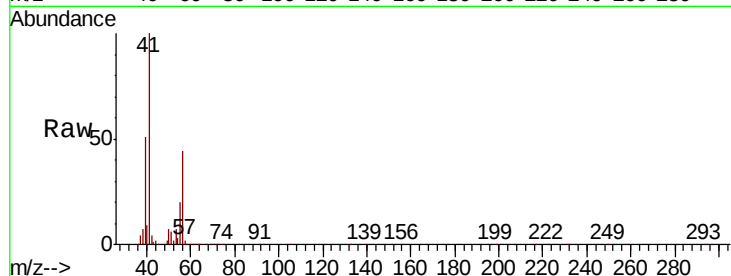




#16
 1,3-Butadiene
 Concen: 9.887 ppbv
 RT: 3.31 min Scan# 162
 Delta R.T. -0.02 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

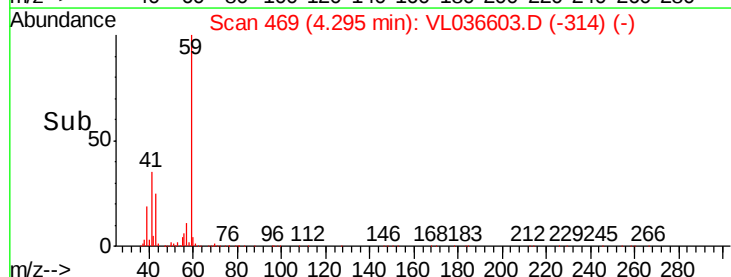
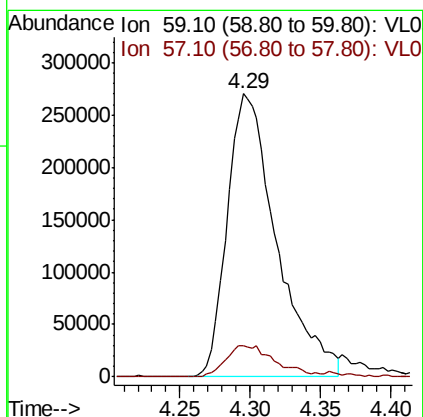
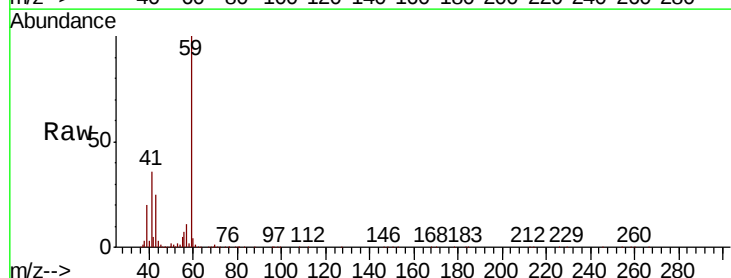
Instrument :
 MSVOA_L
 ClientSampleId :

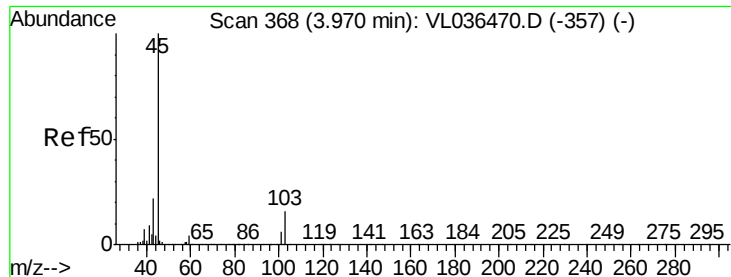
Tot Ion: 39 Resp: 986875
 Ion Ratio Lower Upper
 39 100
 54 6.3 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 5.304 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Tgt Ion: 59 Resp: 661953
 Ion Ratio Lower Upper
 59 100
 57 11.9 8.6 12.8





#19

Isopropyl Alcohol

Concen: 15.226 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

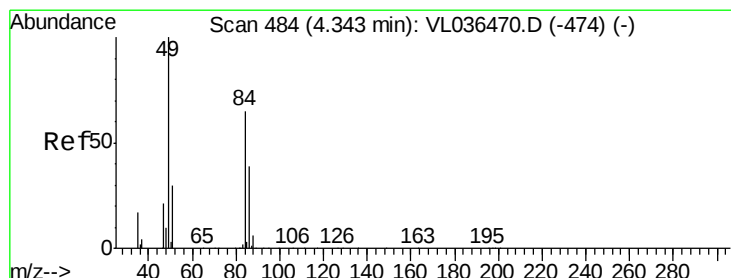
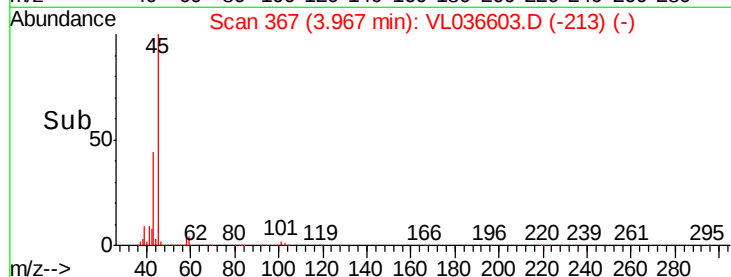
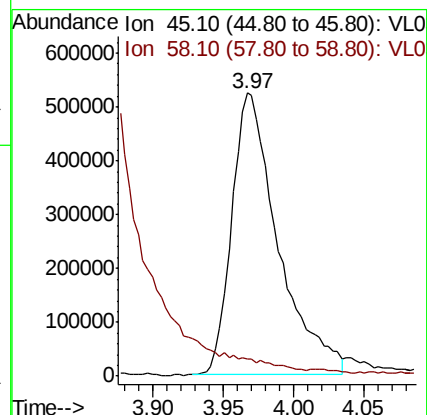
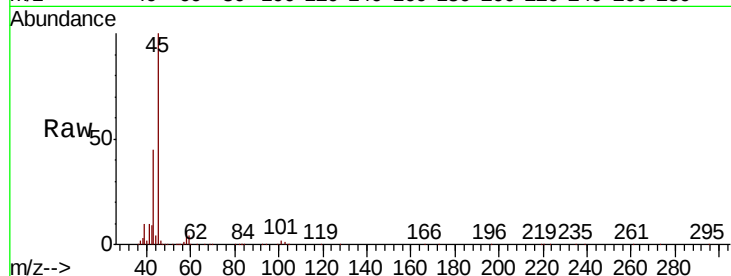
ClientSampleId :

Tot Ion: 45 Resp: 1200814

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 8.450 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Tgt Ion: 84 Resp: 567219

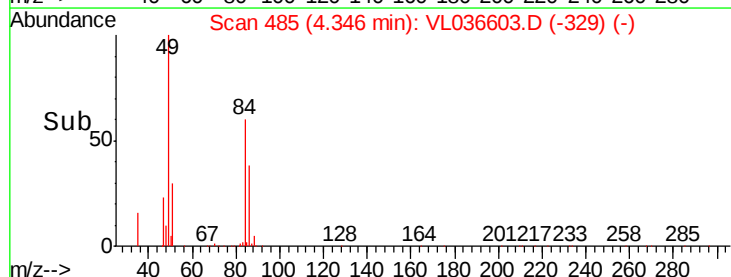
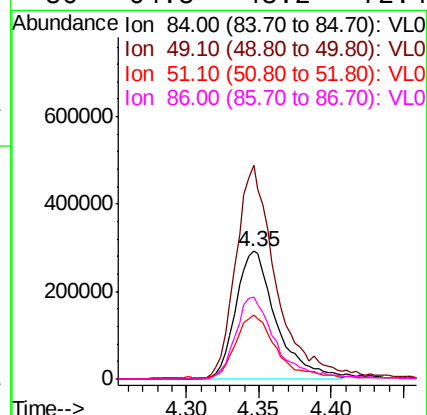
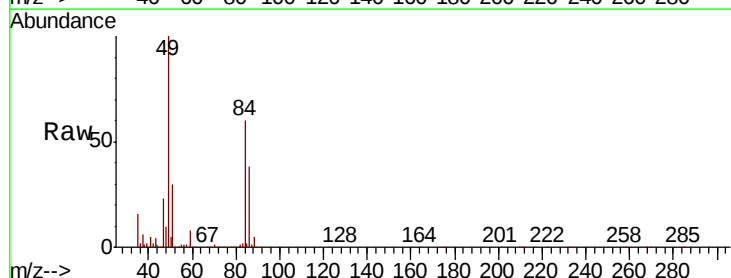
Ion Ratio Lower Upper

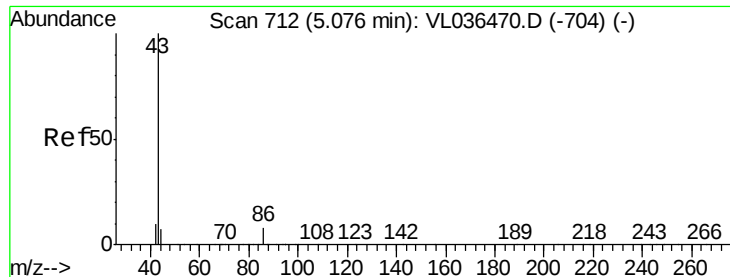
84 100

49 167.4 122.9 184.3

51 48.7 36.9 55.3

86 64.5 48.2 72.4





#23

Vinyl Acetate

Concen: 0.083 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 43 Resp: 20350

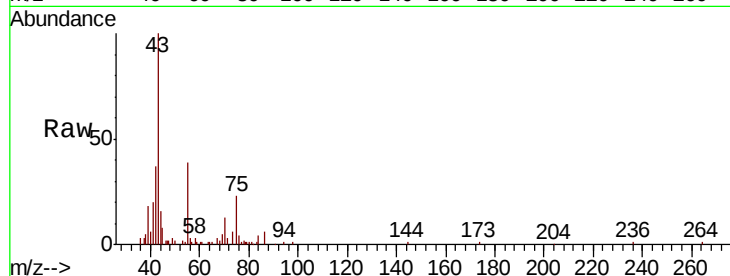
Ion Ratio Lower Upper

43 100

86 4.5 5.4 8.0#

42 28.7 8.5 12.7#

44 5.5 4.6 7.0

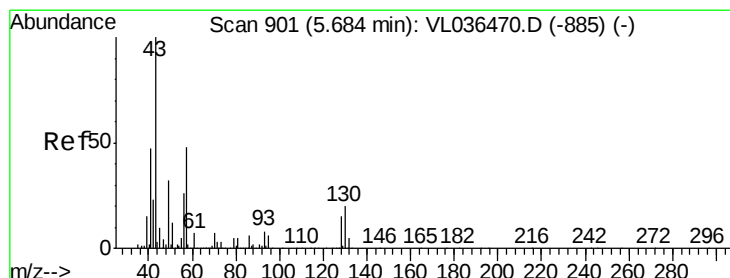
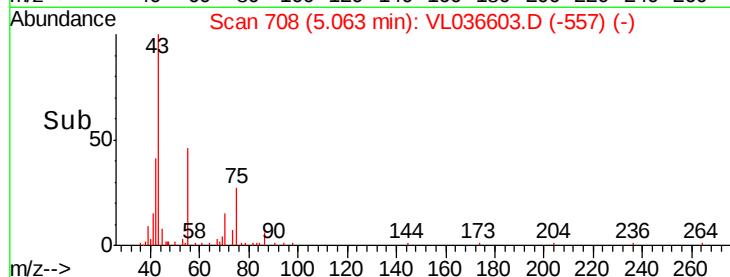
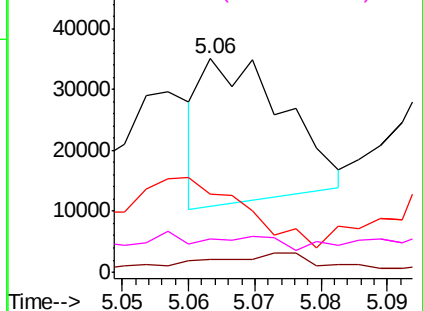


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.981 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Tgt Ion: 43 Resp: 675104

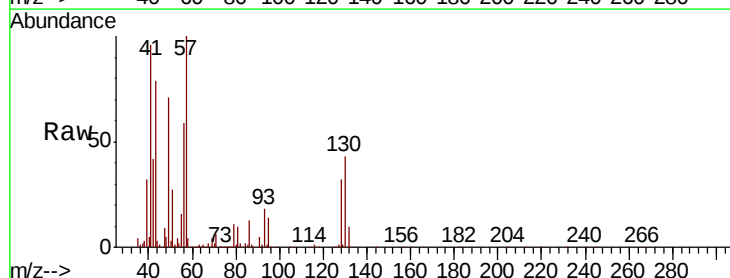
Ion Ratio Lower Upper

43 100

45 2.0 7.9 11.9#

61 0.8 7.4 11.2#

70 2.0 5.1 7.7#

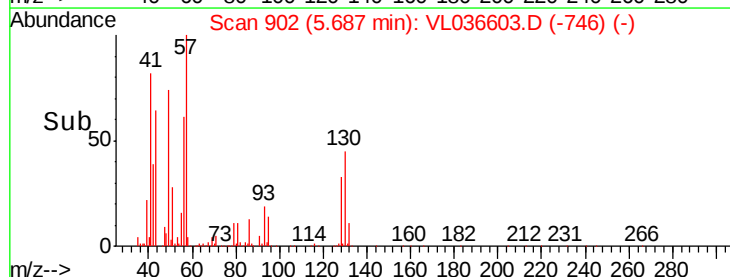
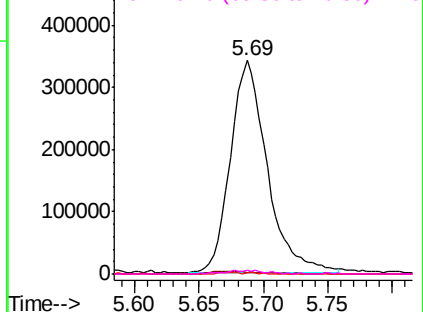


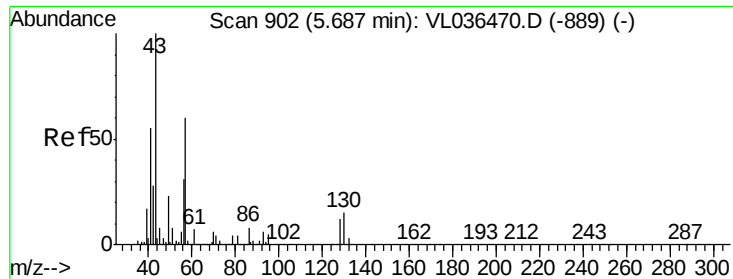
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

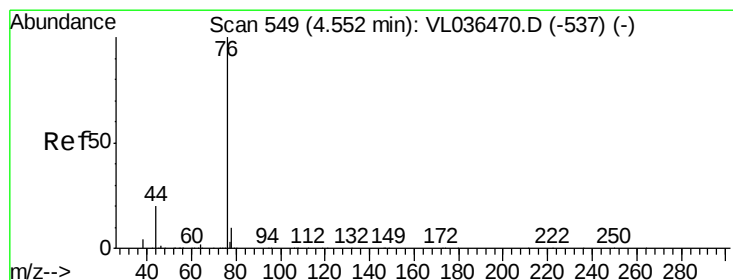
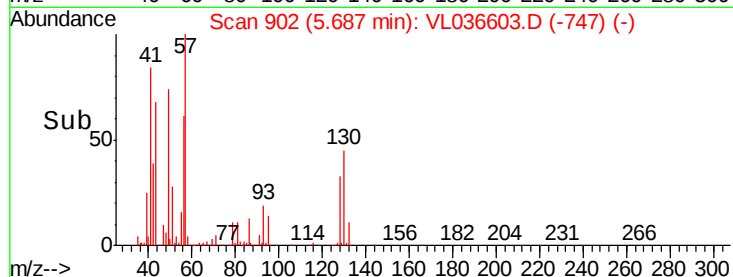
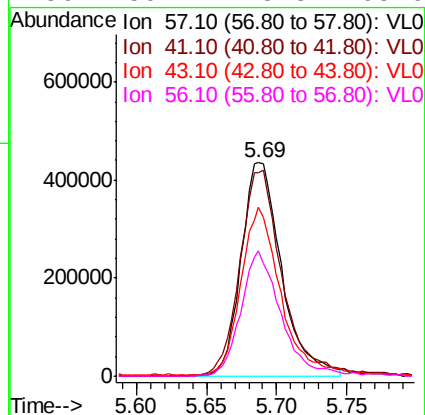
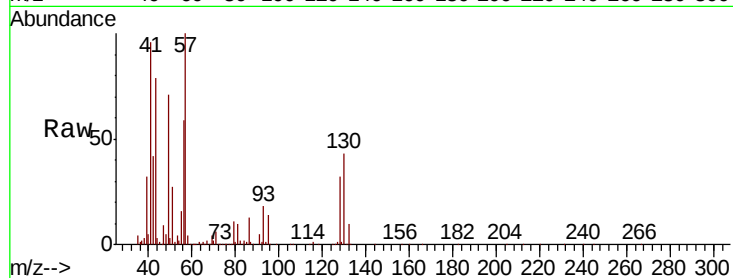




#26
Hexane
Concen: 5.530 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

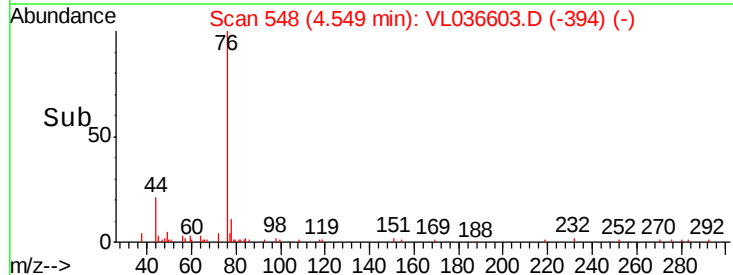
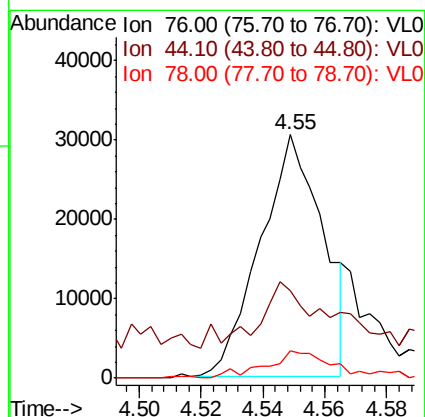
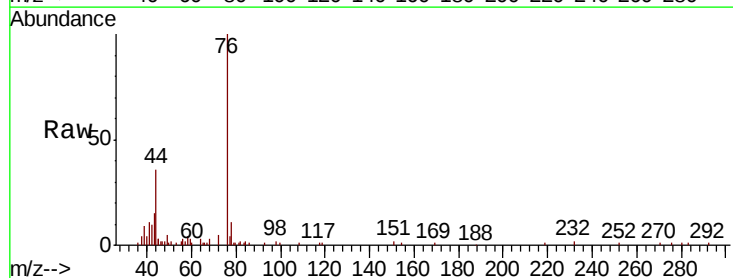
Instrument :
MSVOA_L
ClientSampleId :

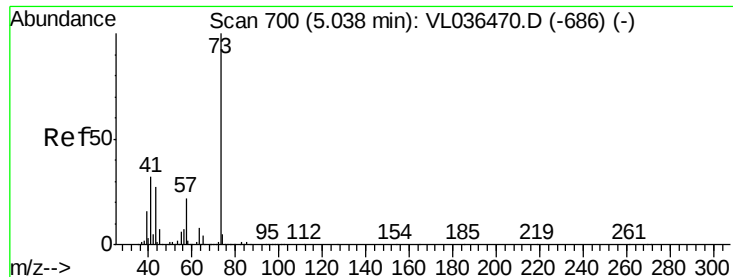
Tot Ion: 57 Resp: 874676
Ion Ratio Lower Upper
57 100
41 103.8 77.2 115.8
43 78.7 173.8 260.6#
56 59.2 43.8 65.6



#27
Carbon Disulfide
Concen: 0.275 ppbv
RT: 4.55 min Scan# 548
Delta R.T. -0.00 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

Tgt Ion: 76 Resp: 42794
Ion Ratio Lower Upper
76 100
44 43.5 17.5 26.3#
78 13.6 8.6 13.0#



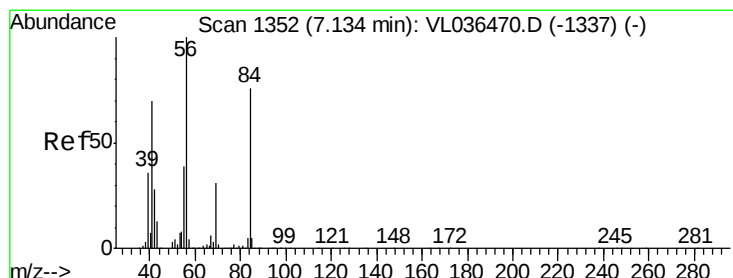
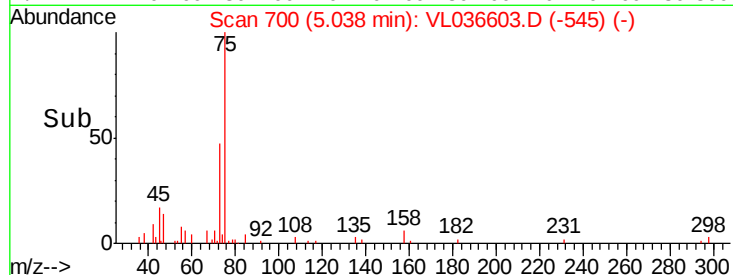
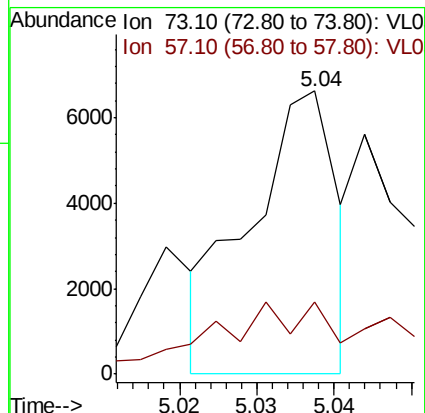
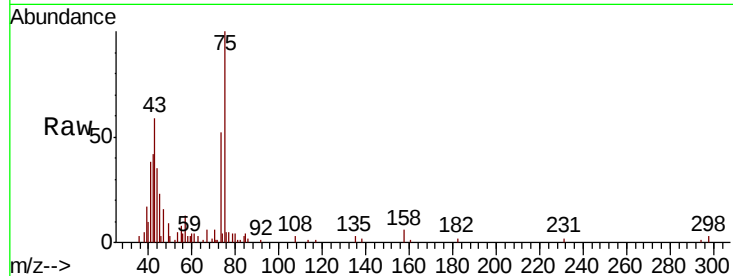


#28

Methvl tert-Butvl Ether
 Concen: 0.028 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Instrument :
 MSVOA_L
 ClientSampleId :

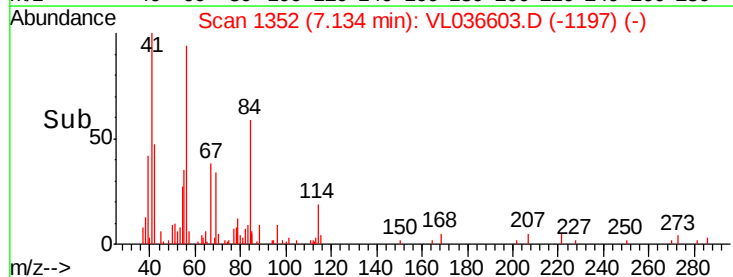
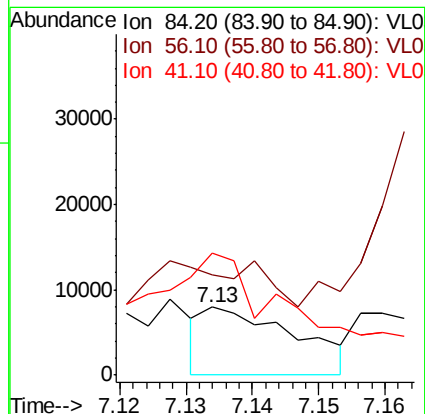
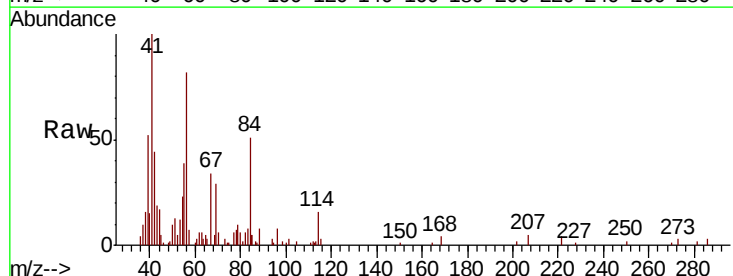
Tot Ion: 73 Resp: 5189
 Ion Ratio Lower Upper
 73 100
 57 0.0 18.5 27.7#

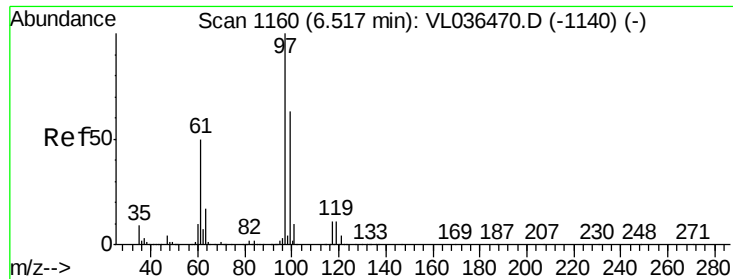


#30

Cyclohexane
 Concen: 0.059 ppbv
 RT: 7.13 min Scan# 1352
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Tgt Ion: 84 Resp: 7581
 Ion Ratio Lower Upper
 84 100
 56 0.0 114.6 171.8#
 41 388.8 75.3 112.9#





#32

1,1,1-Trichloroethane

Concen: 1.620 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

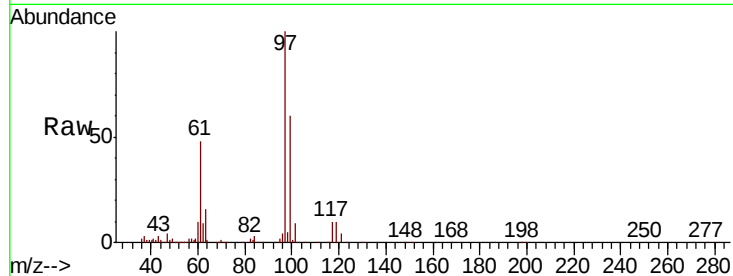
Tot Ion: 97 Resp: 412992

Ion Ratio Lower Upper

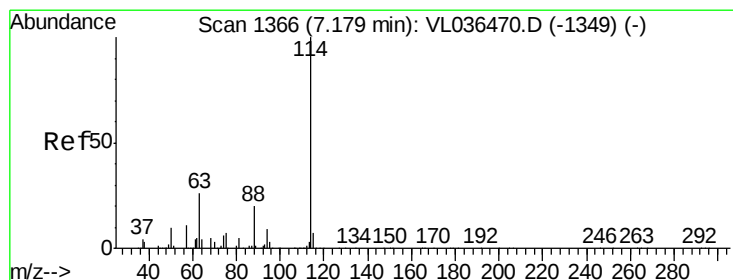
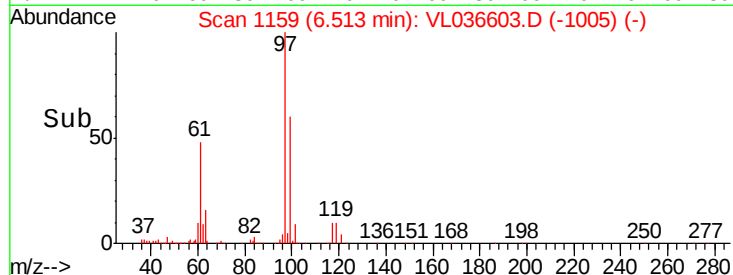
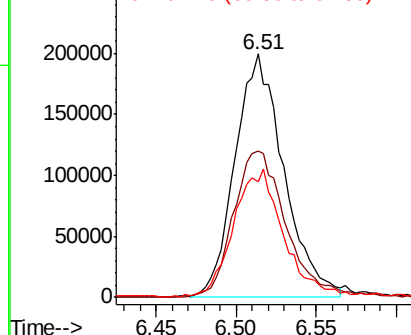
97 100

99 66.0 51.4 77.0

61 56.3 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: VL036603.D

Acq: 31 Mar 2021 15:48

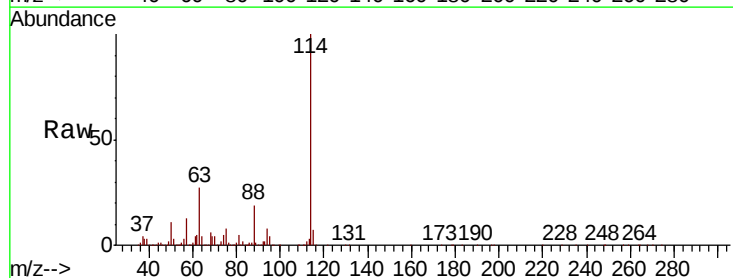
Tgt Ion: 114 Resp: 3438606

Ion Ratio Lower Upper

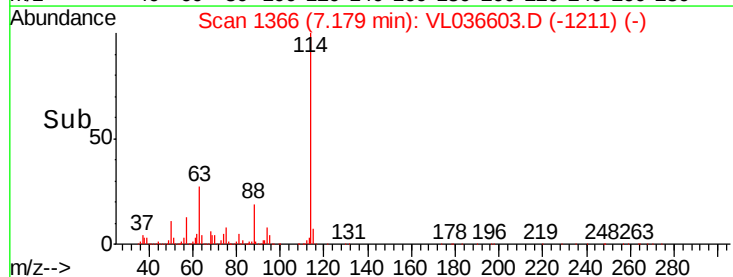
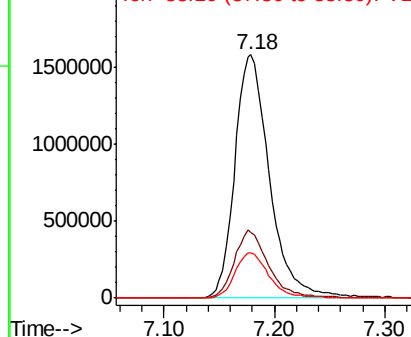
114 100

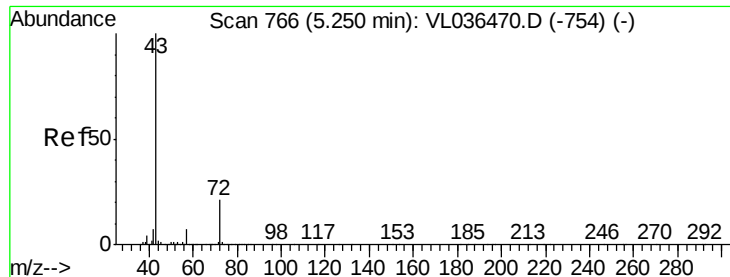
63 27.8 22.4 33.6

88 18.7 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: 11.854 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

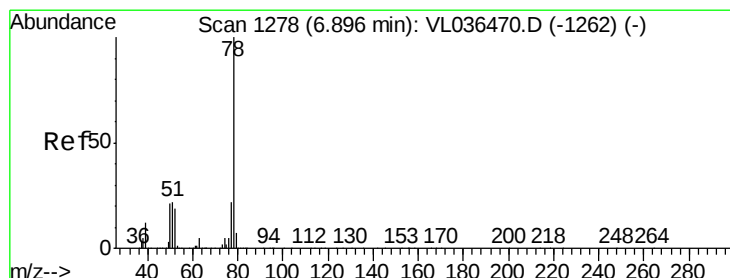
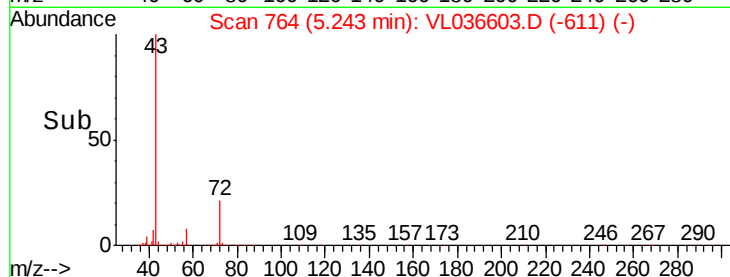
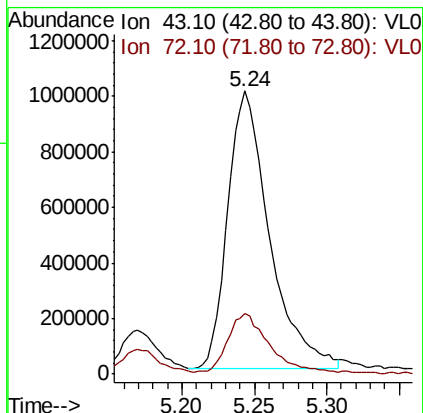
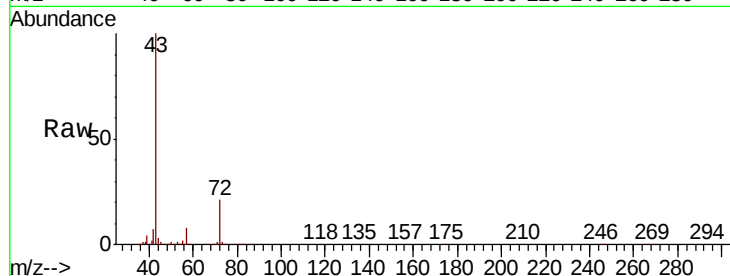
ClientSampleId :

Tot Ion: 43 Resp: 1989691

Ion Ratio Lower Upper

43 100

72 23.4 17.0 25.6



#36

Benzene

Concen: 0.501 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

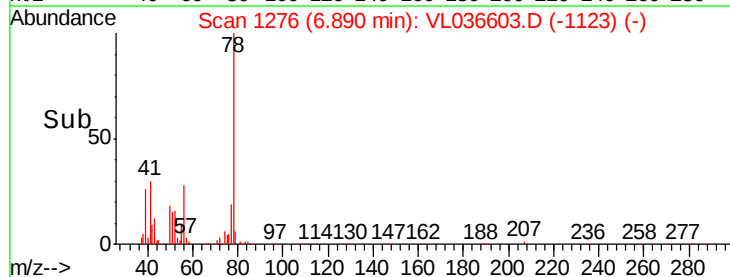
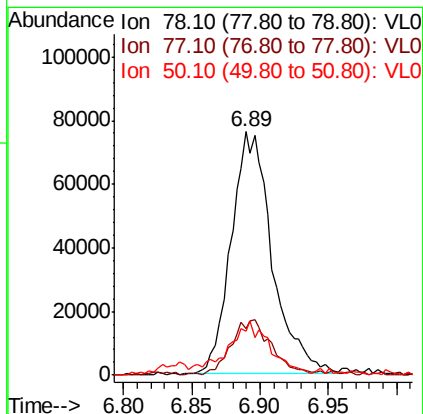
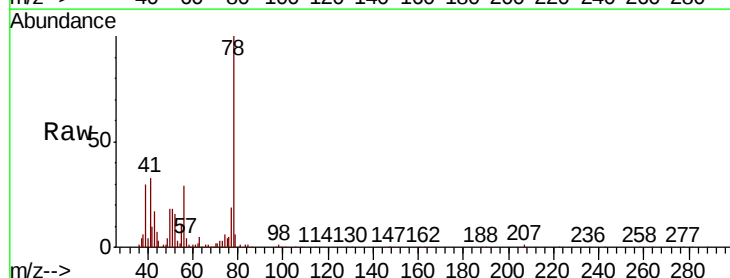
Tgt Ion: 78 Resp: 158864

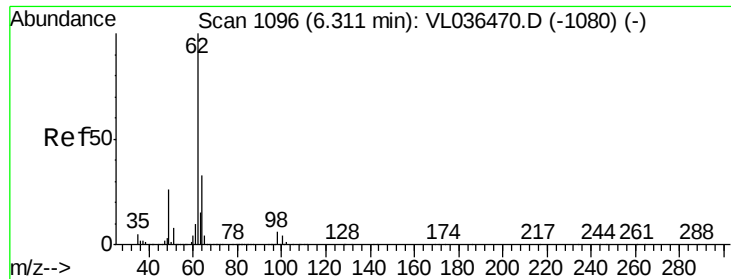
Ion Ratio Lower Upper

78 100

77 18.5 18.0 27.0

50 17.0 16.5 24.7





#37

1,2-Dichloroethane

Concen: 12.817 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

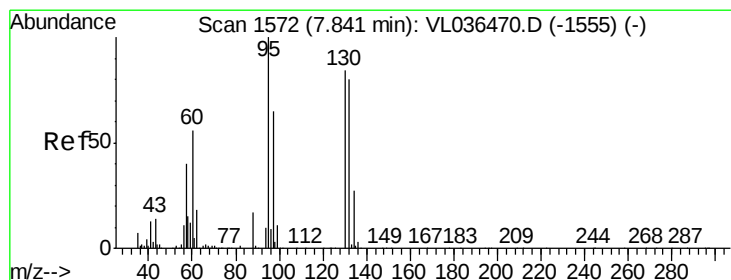
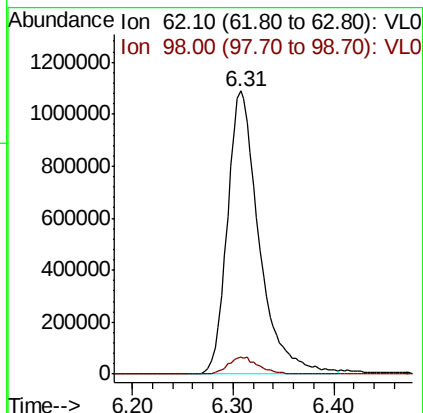
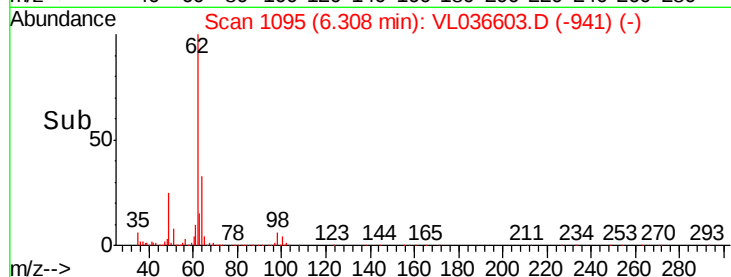
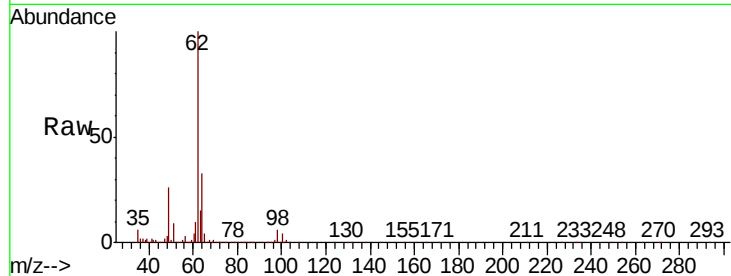
ClientSampleId :

Tot Ion: 62 Resp: 2392385

Ion Ratio Lower Upper

62 100

98 6.0 4.9 7.3



#38

Trichloroethene

Concen: 0.032 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Tgt Ion:130 Resp: 3976

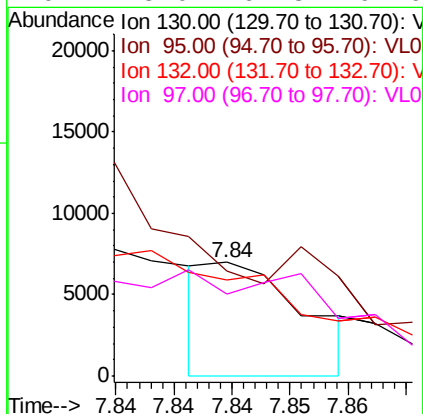
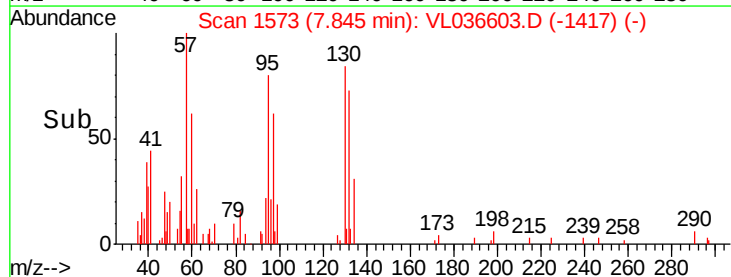
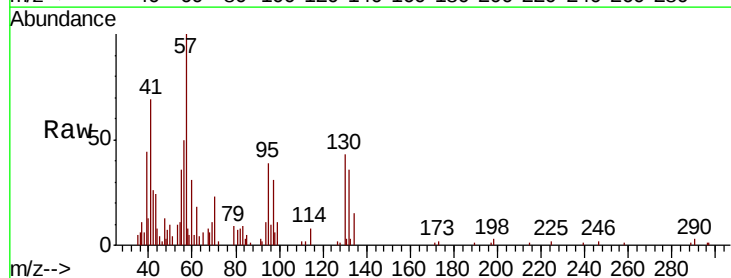
Ion Ratio Lower Upper

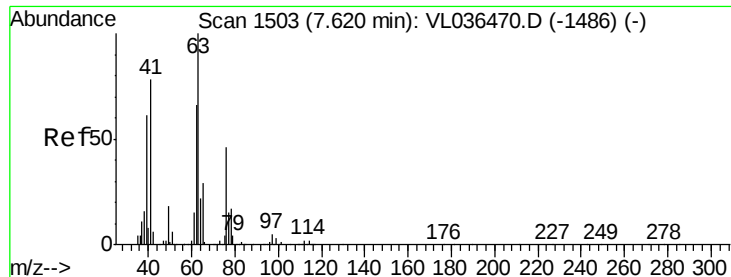
130 100

95 8.6 95.7 143.5#

132 90.4 76.2 114.4

97 45.0 61.8 92.6#





#39

1,2-Dichloropropane

Concen: 7.194 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

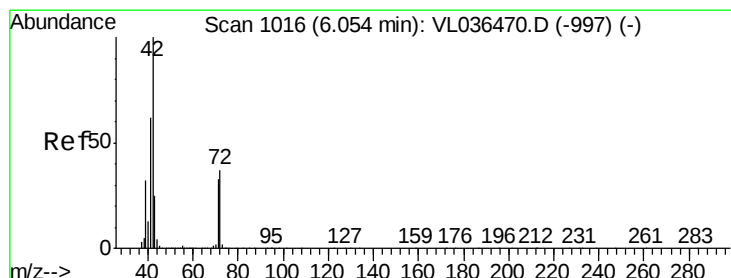
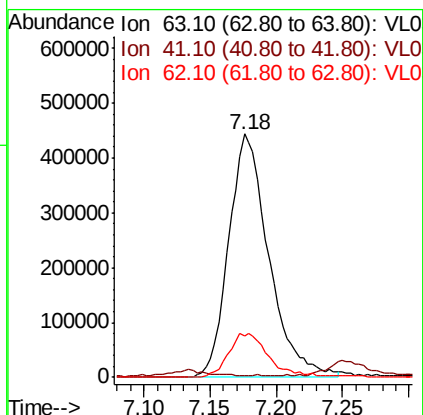
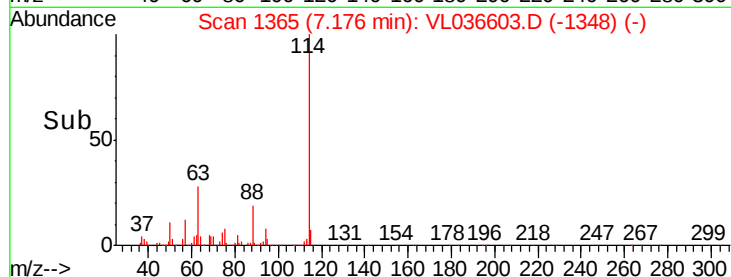
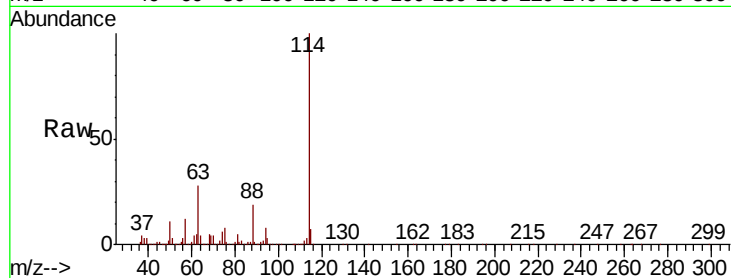
Tot Ion: 63 Resp: 925412

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 17.0 52.8 79.2#



#41

Tetrahydrofuran

Concen: 0.074 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

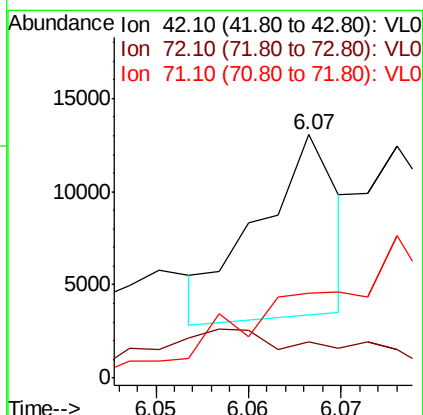
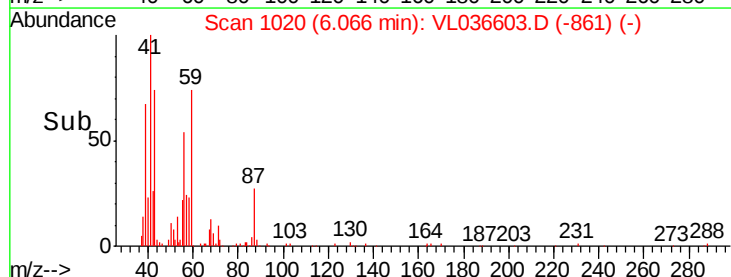
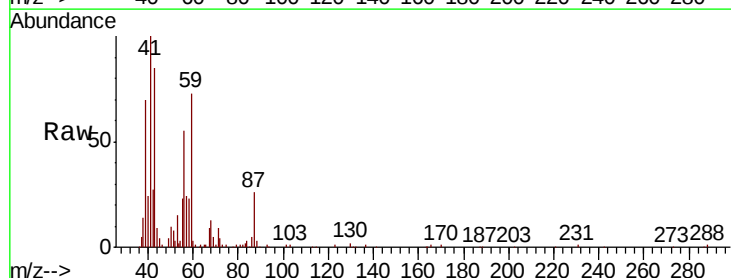
Tgt Ion: 42 Resp: 5754

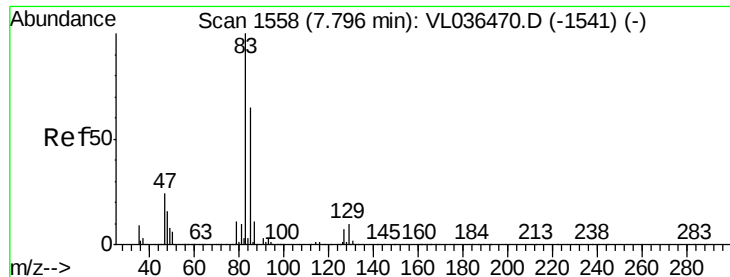
Ion Ratio Lower Upper

42 100

72 96.5 27.6 41.4#

71 0.0 27.0 40.4#





#42

Bromodichloromethane

Concen: 0.063 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

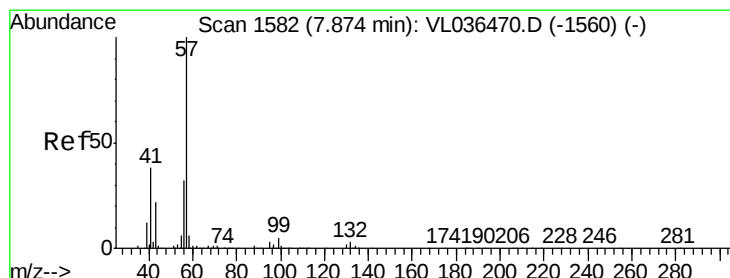
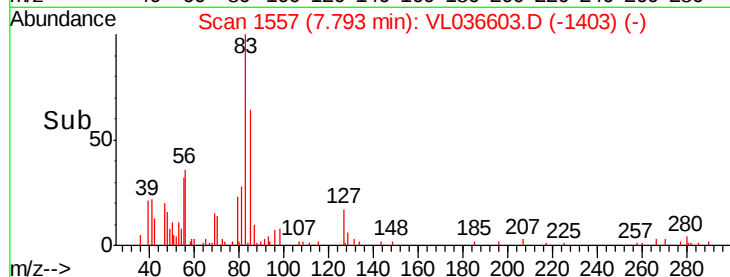
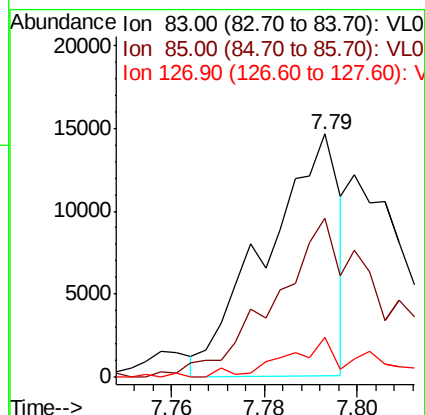
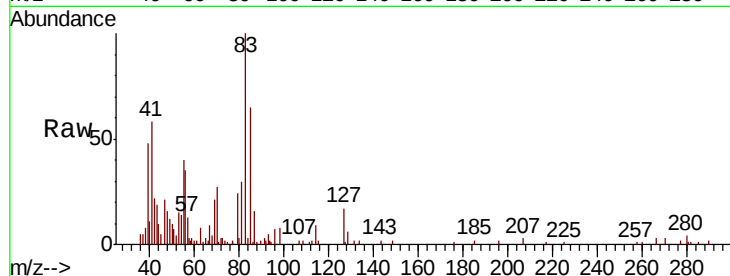
Tot Ion: 83 Resp: 15994

Ion Ratio Lower Upper

83 100

85 64.9 51.8 77.6

127 19.6 5.8 8.8#



#44

2,2,4-Trimethylpentane

Concen: 0.329 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

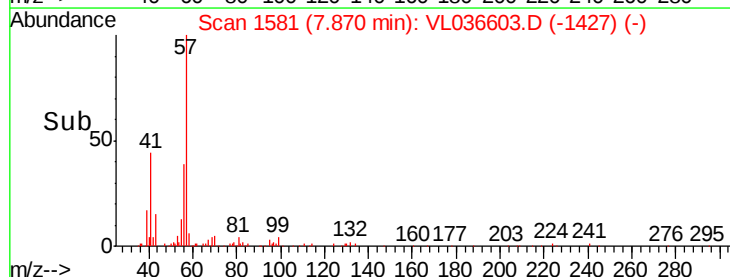
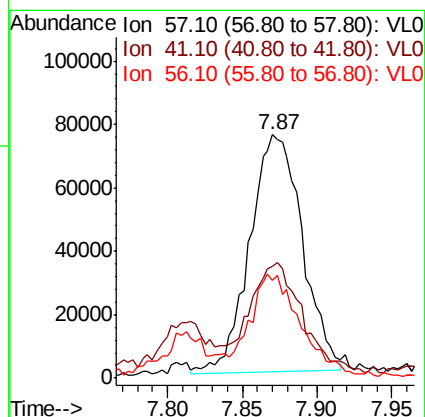
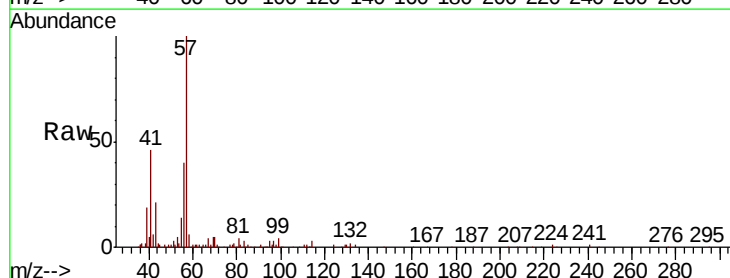
Tgt Ion: 57 Resp: 183373

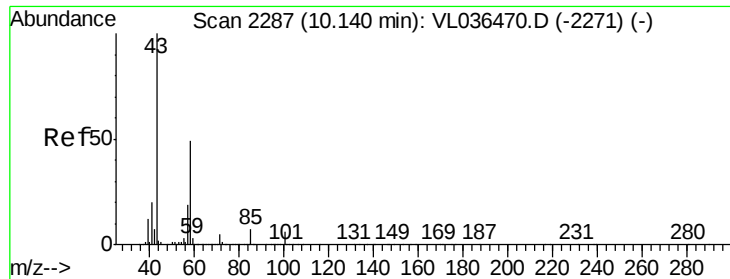
Ion Ratio Lower Upper

57 100

41 48.4 28.8 43.2#

56 44.8 26.1 39.1#

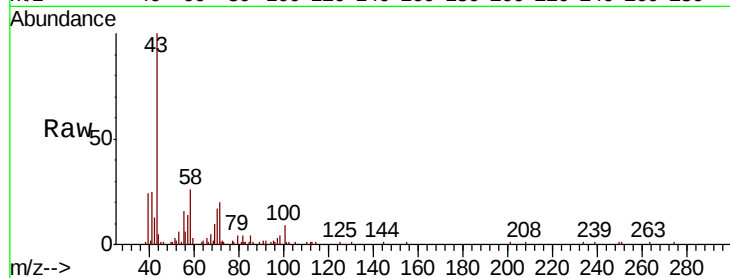




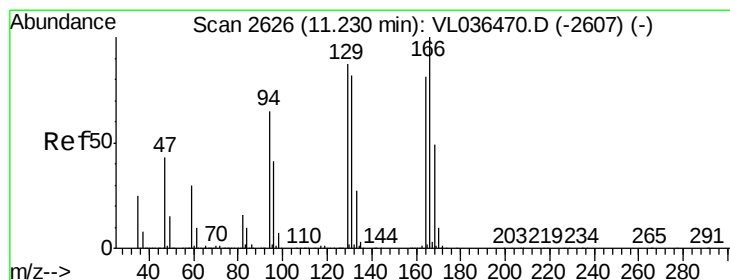
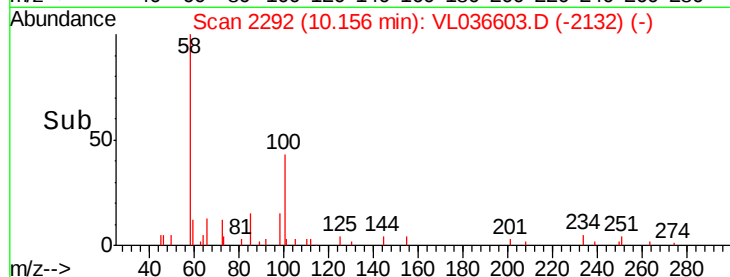
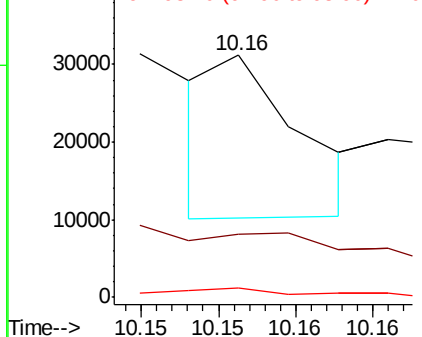
#51
2-Hexanone
Concen: 0.064 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.02 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 7895
Ion Ratio Lower Upper
43 100
58 338.9 37.7 56.5#
98 0.0 0.2 0.2#

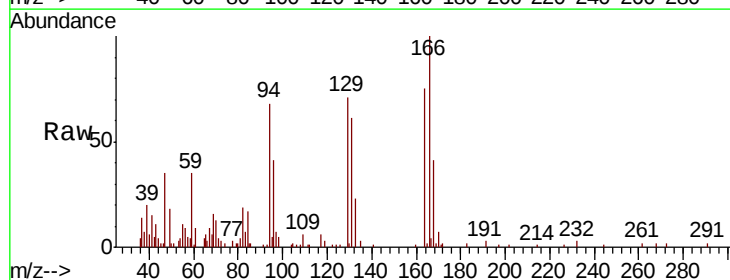


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

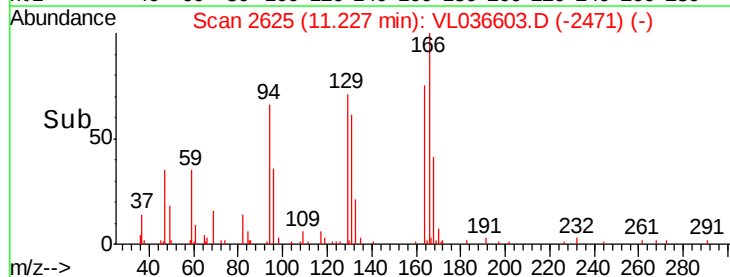
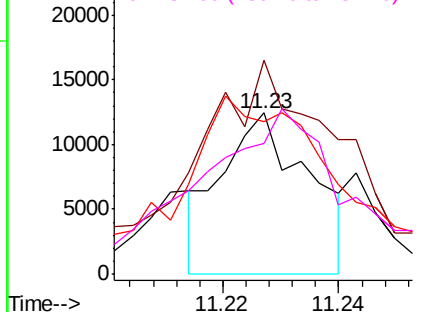


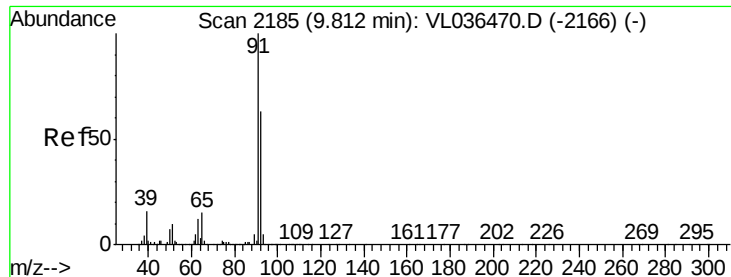
#52
Tetrachloroethene
Concen: 0.111 ppbv
RT: 11.23 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

Tgt Ion: 164 Resp: 12996
Ion Ratio Lower Upper
164 100
166 140.2 98.3 147.5
129 78.1 85.8 128.8#
131 75.9 80.9 121.3#



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: 2.471 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

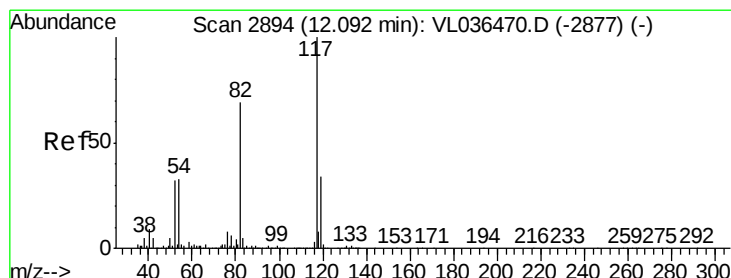
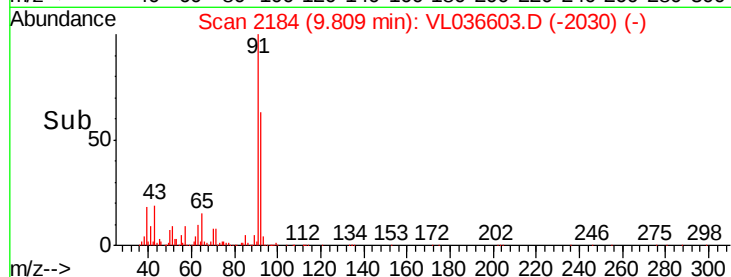
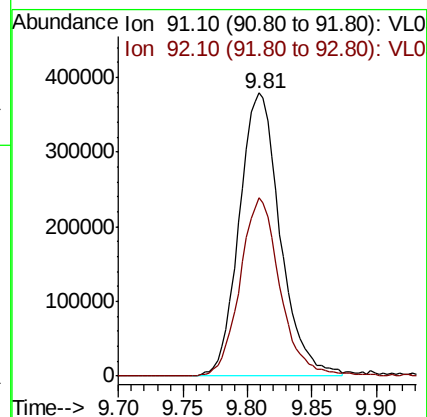
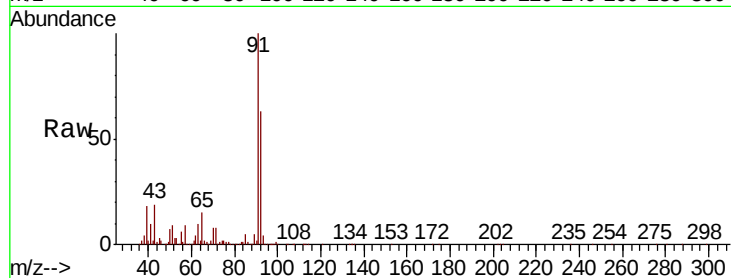
ClientSampleId :

Tot Ion: 91 Resp: 834464

Ion Ratio Lower Upper

91 100

92 62.1 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

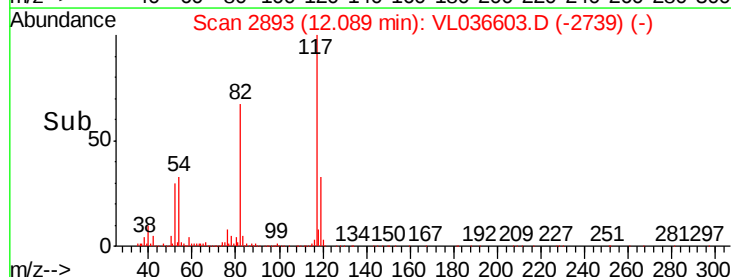
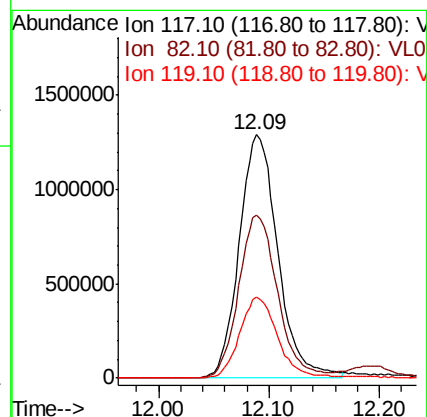
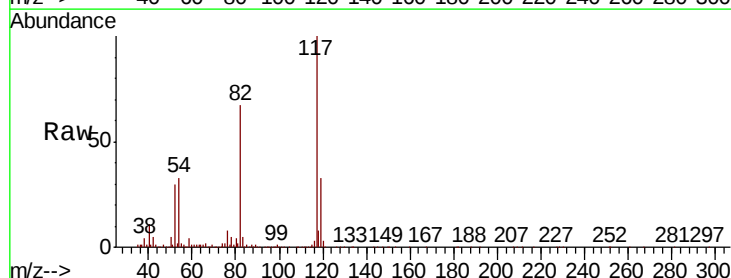
Tgt Ion: 117 Resp: 3135554

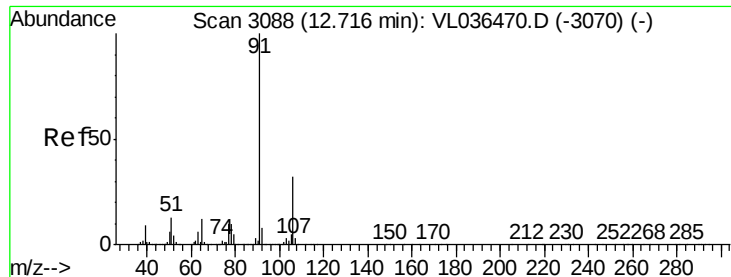
Ion Ratio Lower Upper

117 100

82 67.9 57.4 86.0

119 33.5 47.4 71.0#





#58

Ethyl Benzene

Concen: 1.355 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

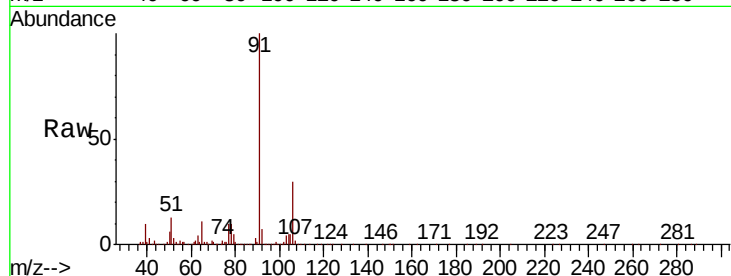
ClientSampleId :

Tot Ion: 91 Resp: 618131

Ion Ratio Lower Upper

91 100

106 29.5 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.72

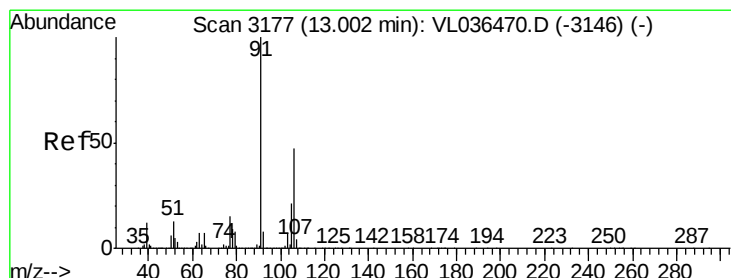
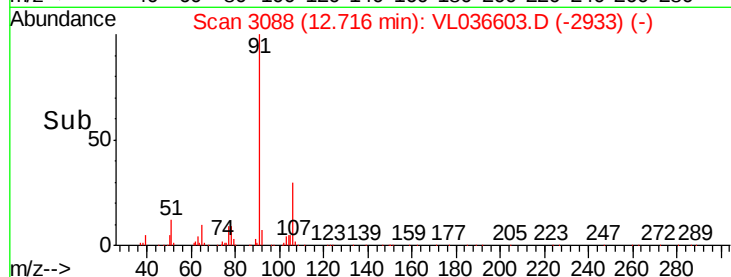
300000

200000

100000

0

Time-->



#59

m/p-Xylene

Concen: 5.932 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.03 min

Lab File: VL036603.D

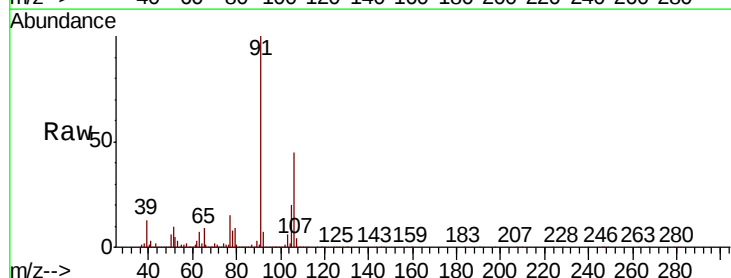
Acq: 31 Mar 2021 15:48

Tgt Ion: 91 Resp: 2360224

Ion Ratio Lower Upper

91 100

106 46.2 35.3 52.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.97

800000

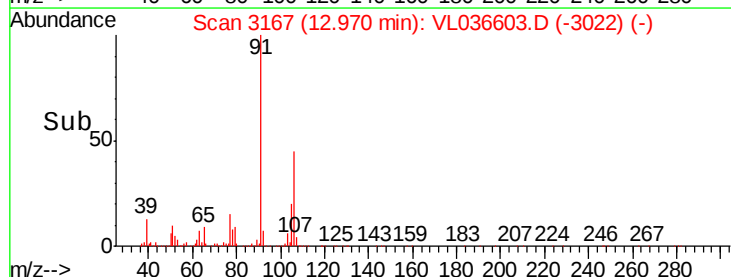
600000

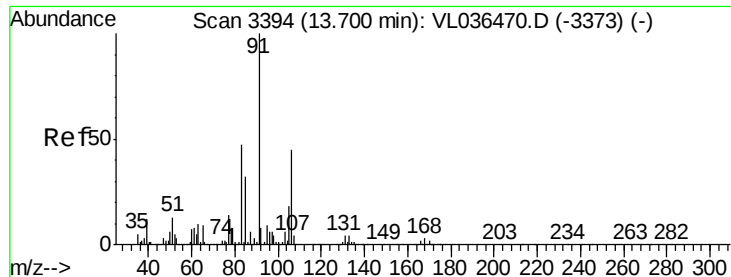
400000

200000

0

Time-->

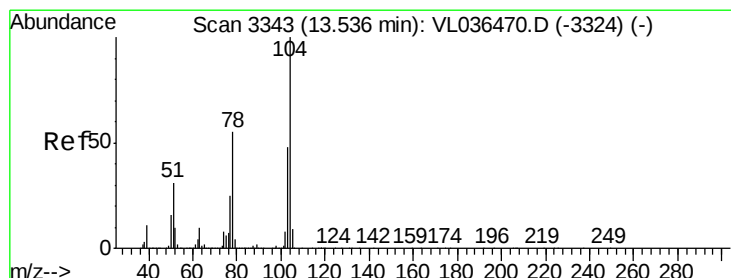
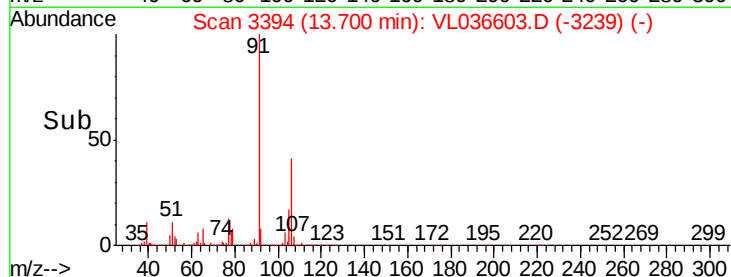
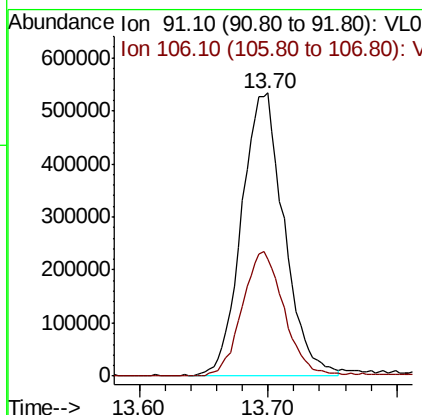
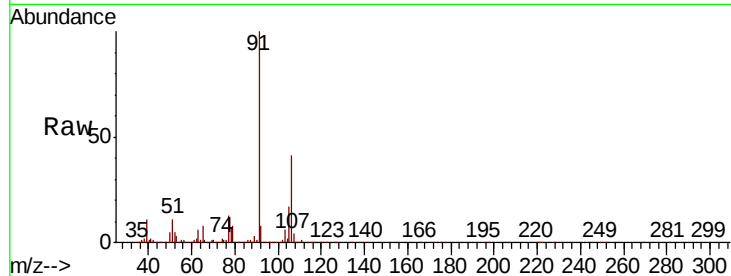




#60
o-Xylene
Concen: 3.159 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

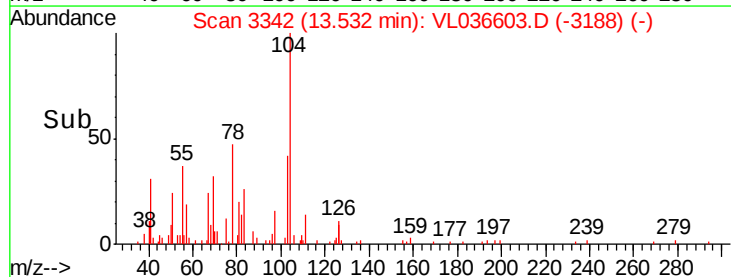
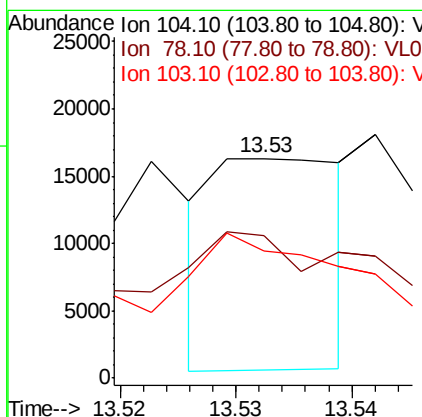
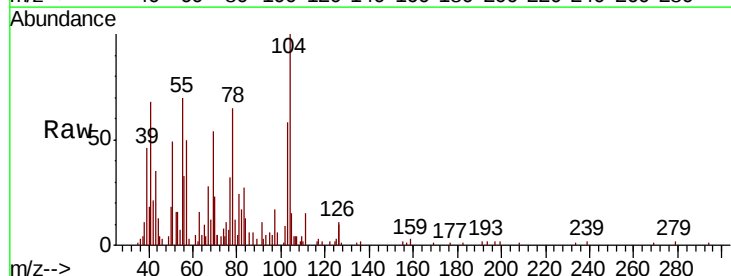
Instrument :
MSVOA_L
ClientSampleId :

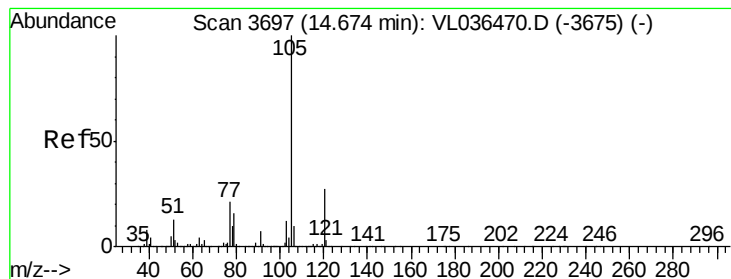
Tot Ion: 91 Resp: 1215498
Ion Ratio Lower Upper
91 100
106 45.2 22.3 66.9



#61
Styrene
Concen: 0.062 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL036603.D
Acq: 31 Mar 2021 15:48

Tgt Ion: 104 Resp: 12040
Ion Ratio Lower Upper
104 100
78 256.5 43.8 65.8#
103 185.2 38.3 57.5#





#62

Isopropylbenzene

Concen: 0.220 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

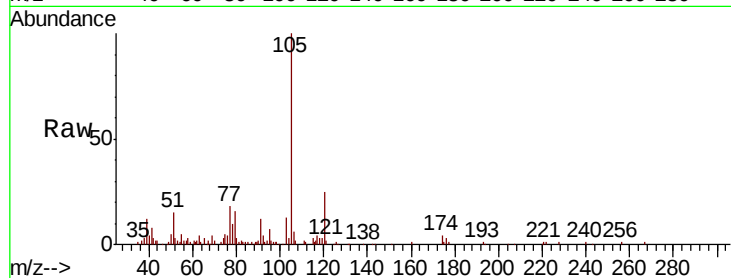
ClientSampleId :

Tot Ion:105 Resp: 114226

Ion Ratio Lower Upper

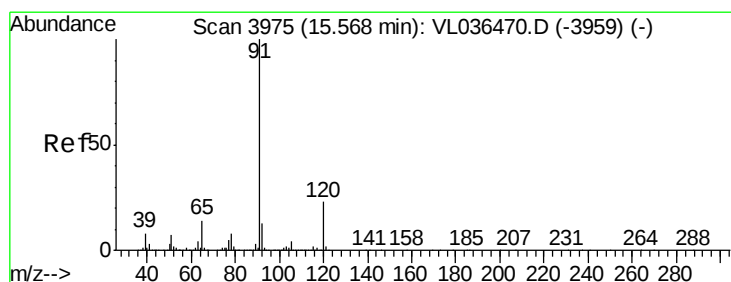
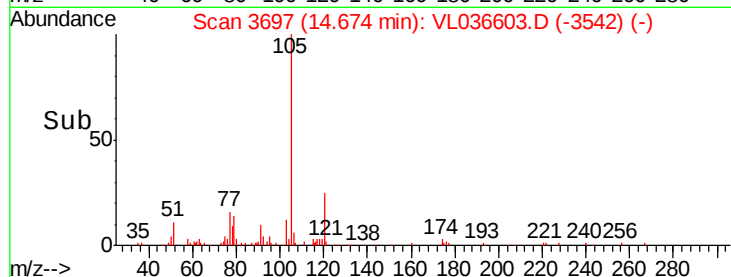
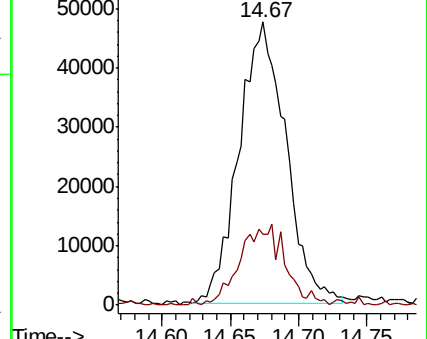
105 100

120 28.5 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: 0.460 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL036603.D

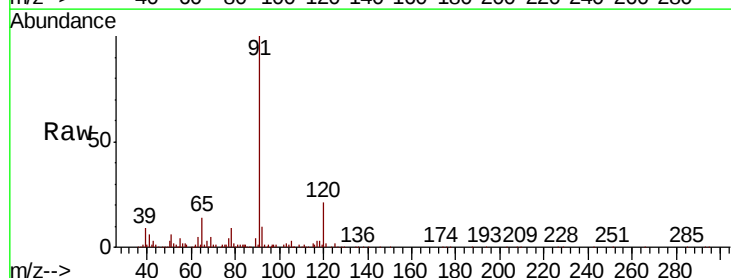
Acq: 31 Mar 2021 15:48

Tgt Ion:120 Resp: 58303

Ion Ratio Lower Upper

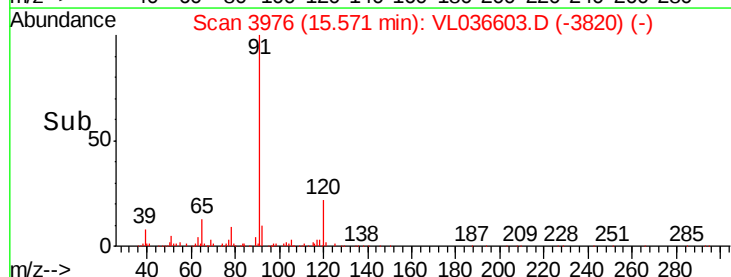
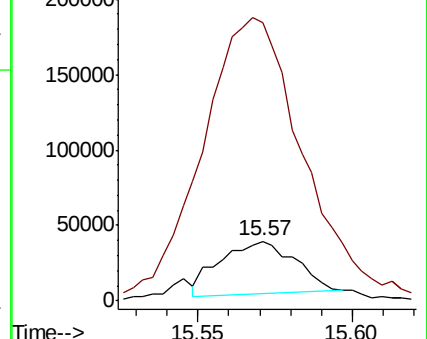
120 100

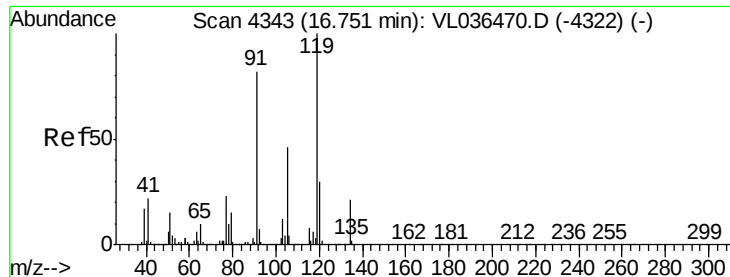
91 751.5 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.541 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.02 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

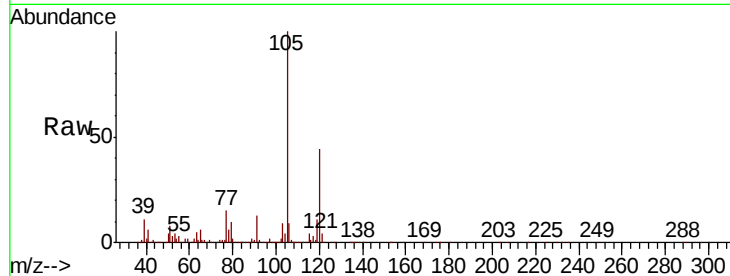
Tot Ion:119 Resp: 243014

Ion Ratio Lower Upper

119 100

91 117.7 67.5 101.3#

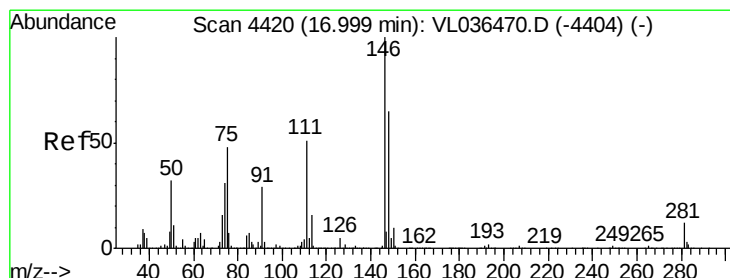
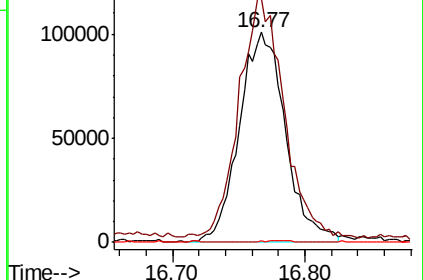
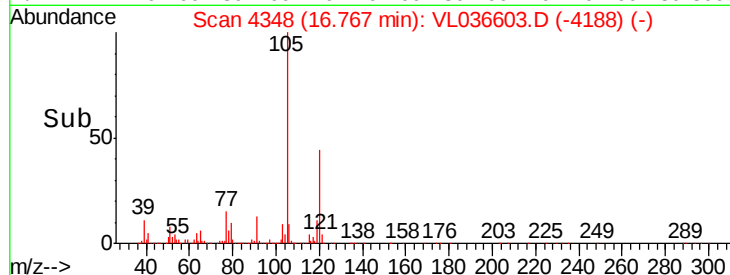
134 0.5 15.8 23.8#



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: 0.374 ppbv

RT: 17.21 min Scan# 4486

Delta R.T. 0.21 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

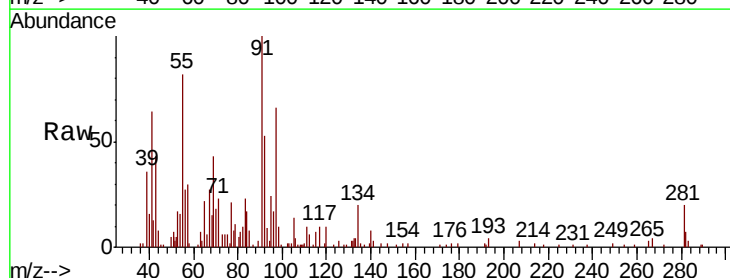
Tgt Ion: 91 Resp: 18568

Ion Ratio Lower Upper

91 100

126 0.0 13.5 20.3#

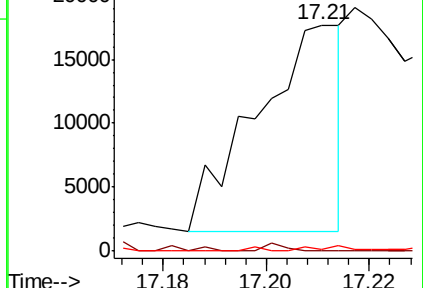
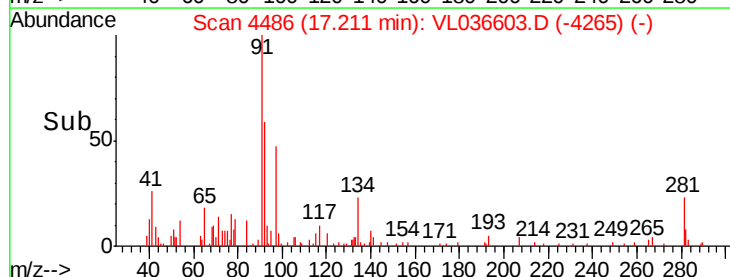
128 1.4 4.2 6.4#

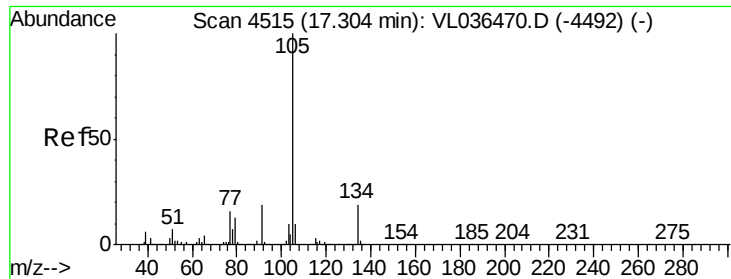


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.086 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. -0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

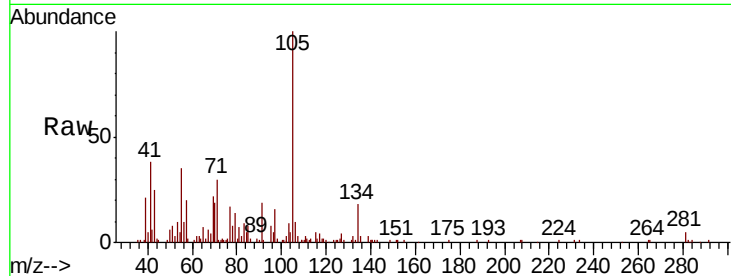
ClientSampleId :

Tot Ion: 105 Resp: 54308

Ion Ratio Lower Upper

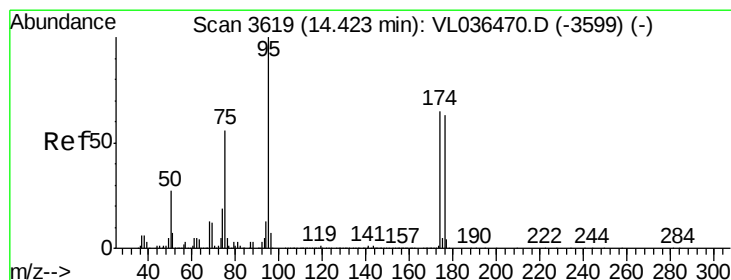
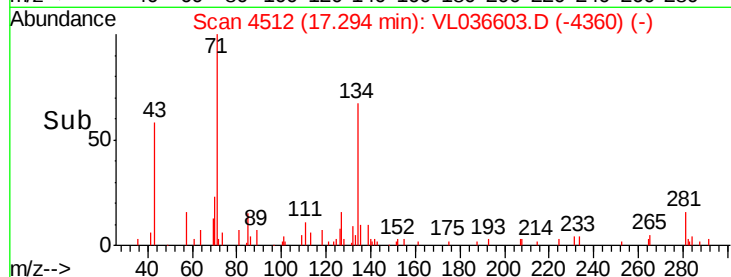
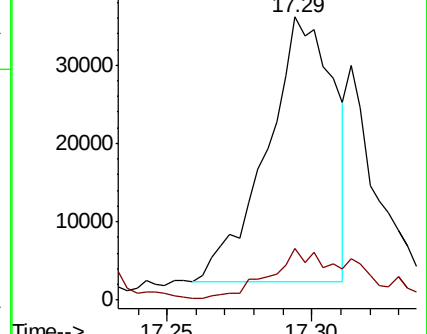
105 100

134 27.7 14.7 22.1#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.142 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

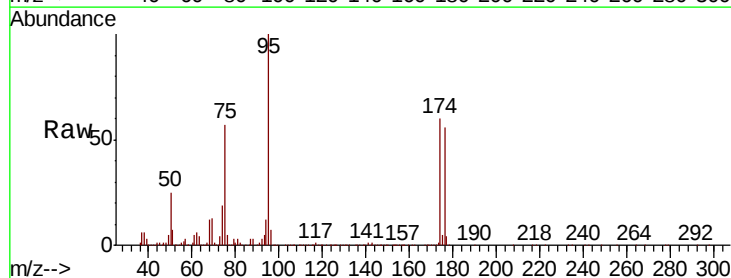
Tgt Ion: 95 Resp: 2534576

Ion Ratio Lower Upper

95 100

174 64.8 51.0 76.6

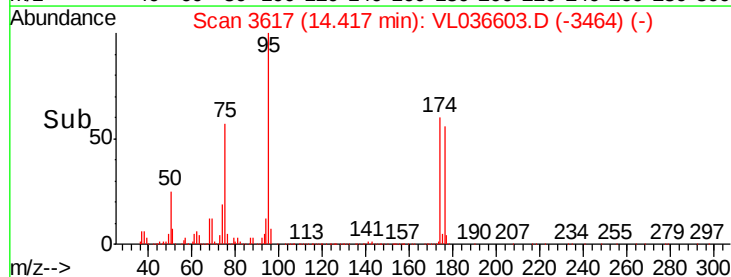
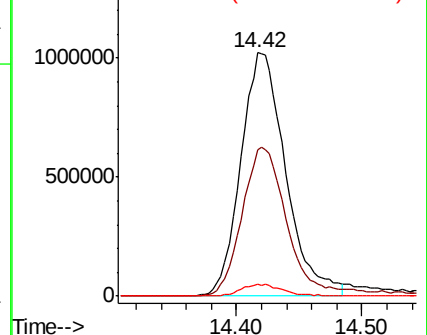
175 4.9 3.9 5.9

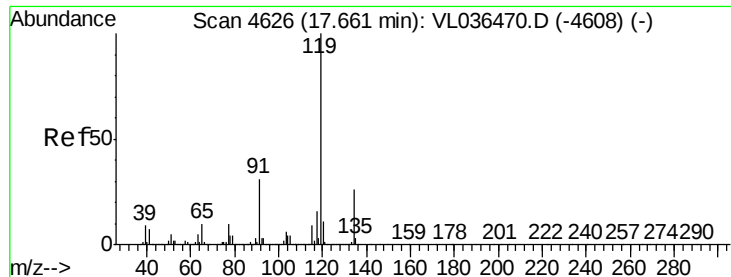


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.121 ppbv

RT: 17.66 min Scan# 4627

Delta R.T. 0.00 min

Lab File: VL036603.D

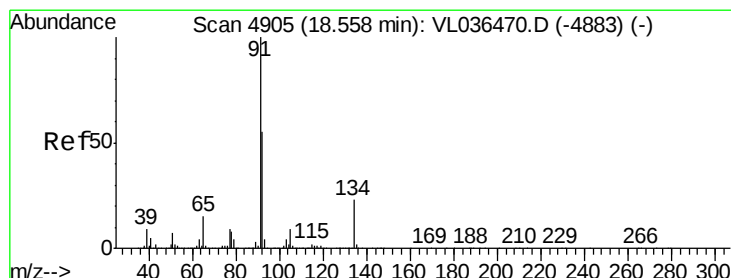
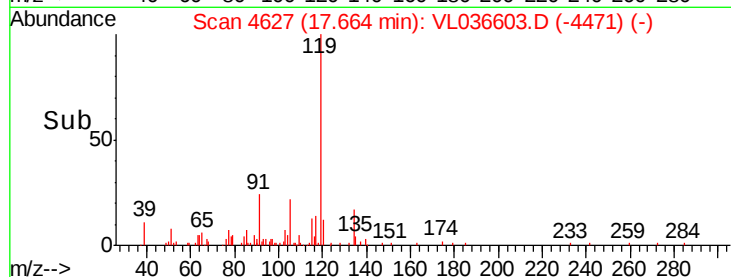
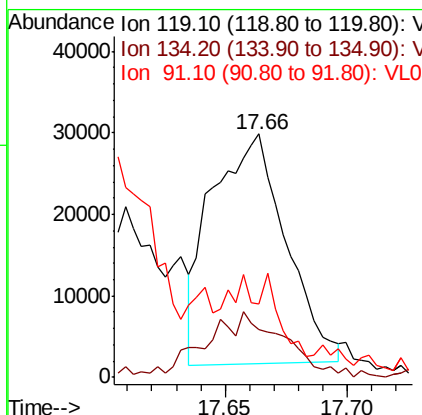
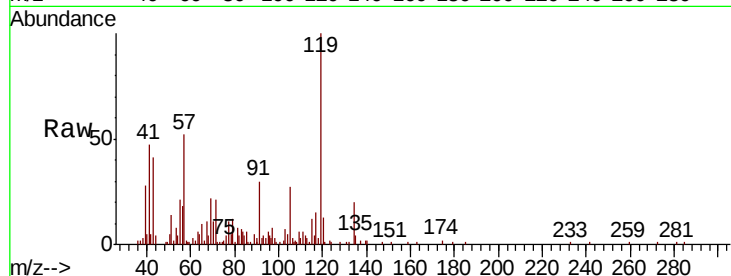
Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	119	Resp:	59684
Ion	Ratio	Lower	Upper
119	100		
134	31.7	20.6	30.8#
91	32.6	25.0	37.6



#70

n-Butylbenzene

Concen: 0.305 ppbv

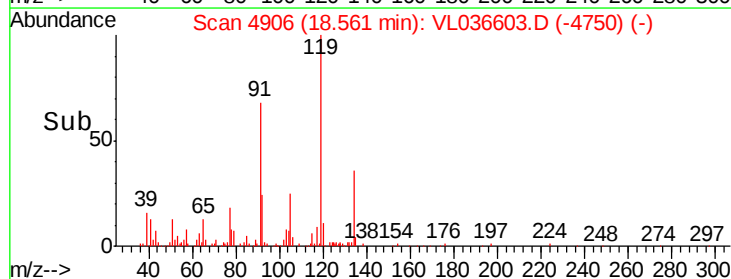
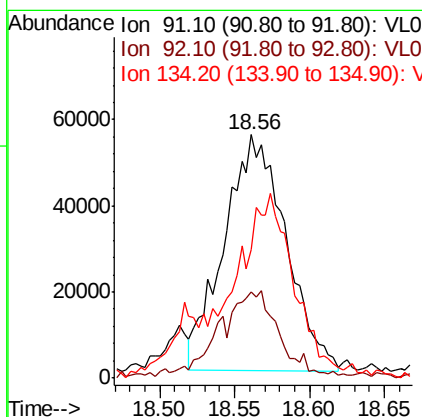
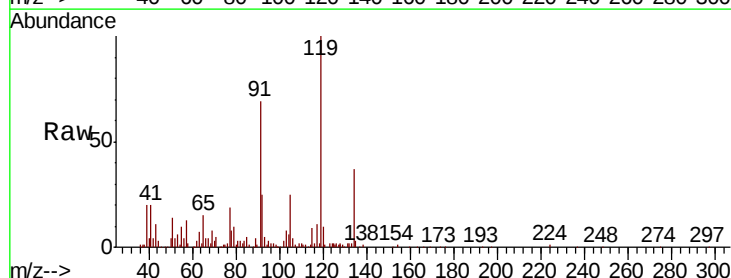
RT: 18.56 min Scan# 4906

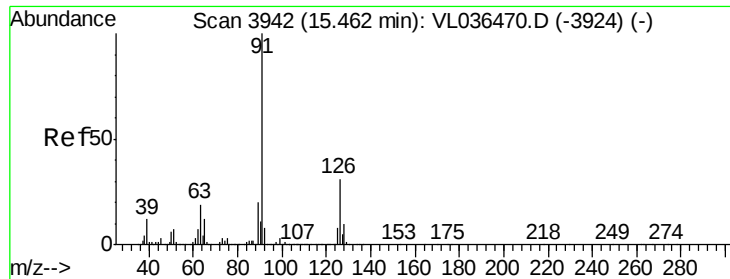
Delta R.T. 0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Tgt Ion:	91	Resp:	156647
Ion	Ratio	Lower	Upper
91	100		
92	35.2	43.8	65.8#
134	91.0	18.0	27.0#

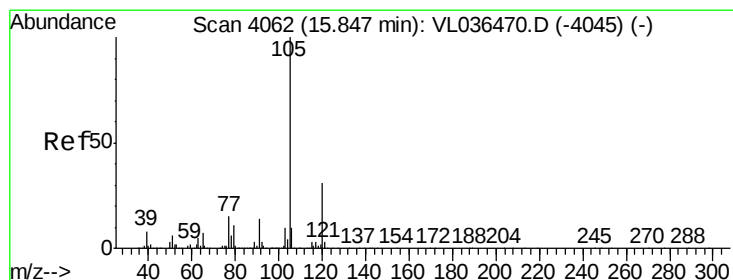
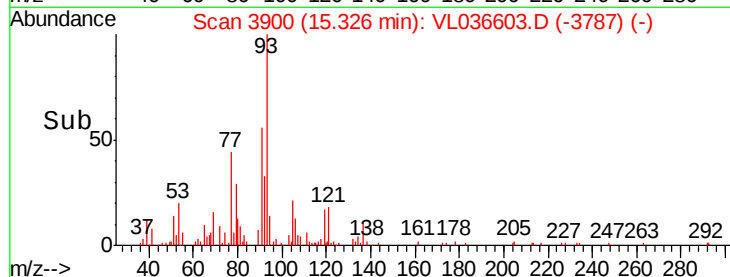
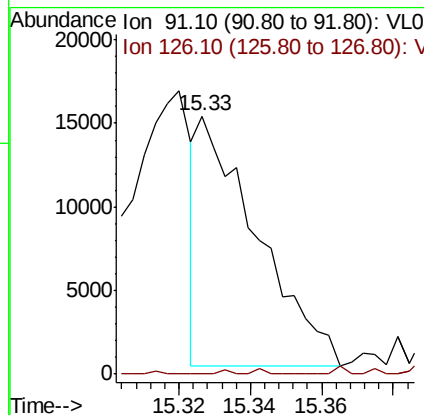
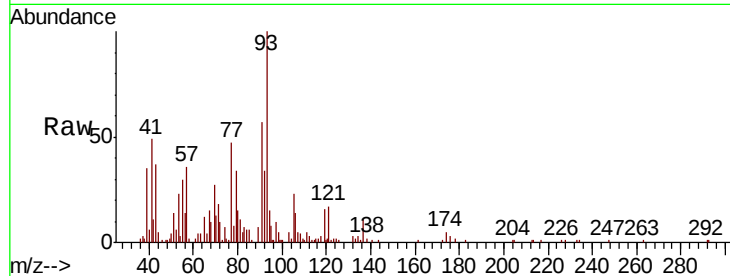




#71
 2-Chlorotoluene
 Concen: 0.044 ppbv
 RT: 15.33 min Scan# 3900
 Delta R.T. -0.14 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

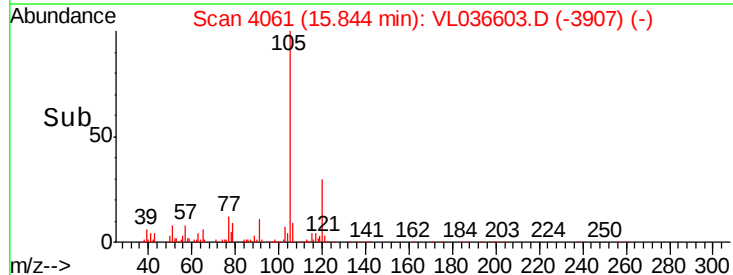
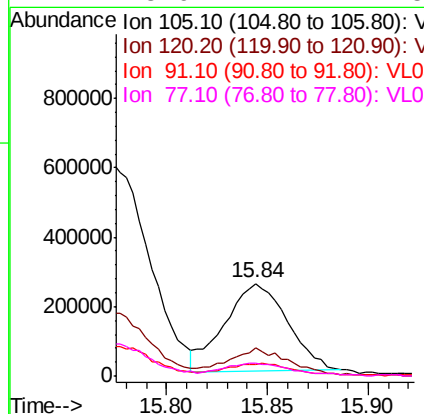
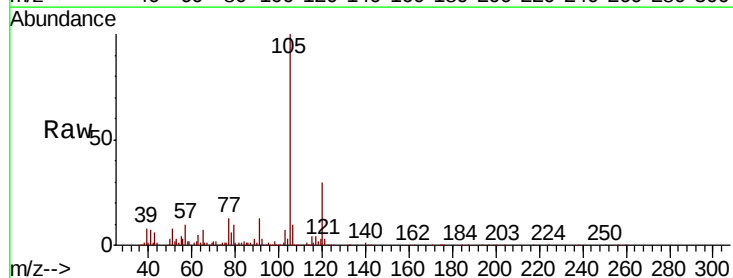
Instrument :
 MSVOA_L
 ClientSampleId :

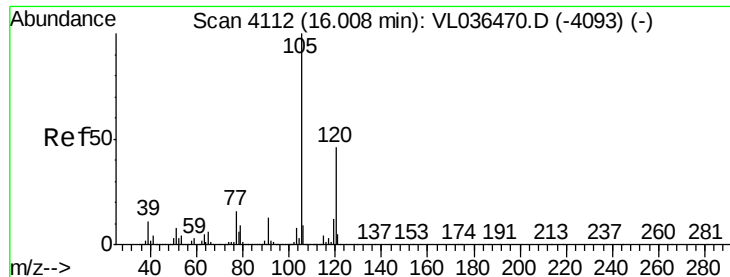
Tot Ion: 91 Resp: 17118
 Ion Ratio Lower Upper
 91 100
 126 2.8 12.1 48.5#



#72
 4-Ethyltoluene
 Concen: 1.305 ppbv
 RT: 15.84 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Tgt Ion: 105 Resp: 550070
 Ion Ratio Lower Upper
 105 100
 120 30.8 24.0 36.0
 91 14.7 11.0 16.4
 77 15.9 11.7 17.5

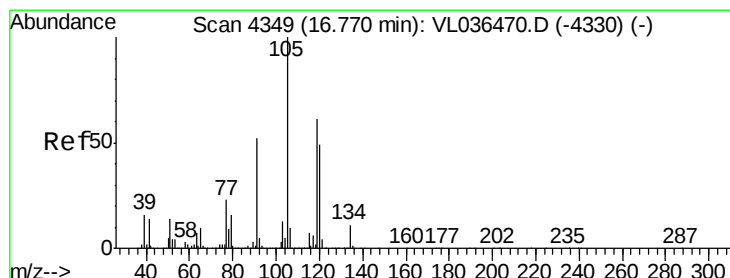
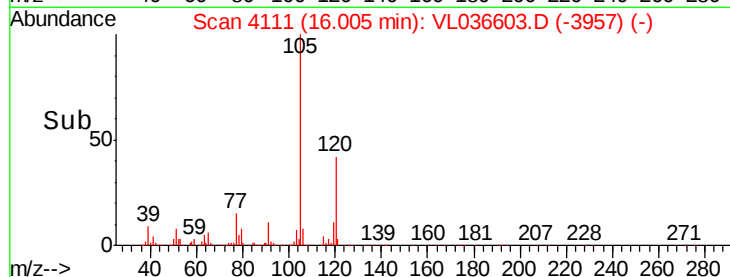
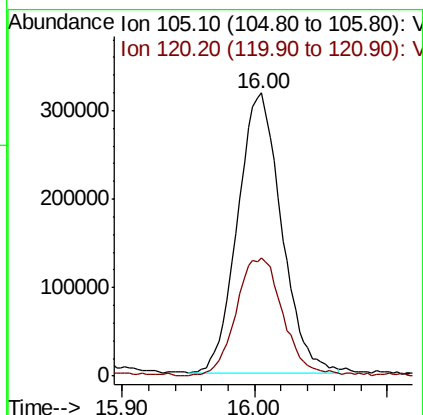
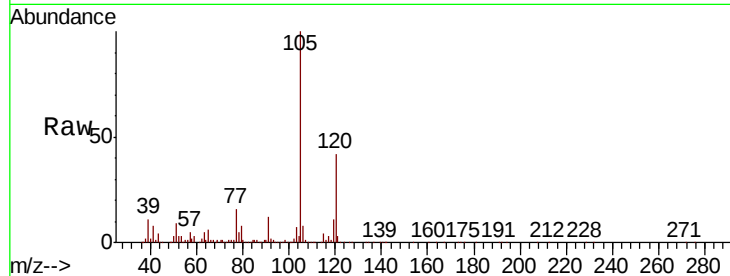




#73
 1,3,5-Trimethylbenzene
 Concen: 1.854 ppbv
 RT: 16.00 min Scan# 4111
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

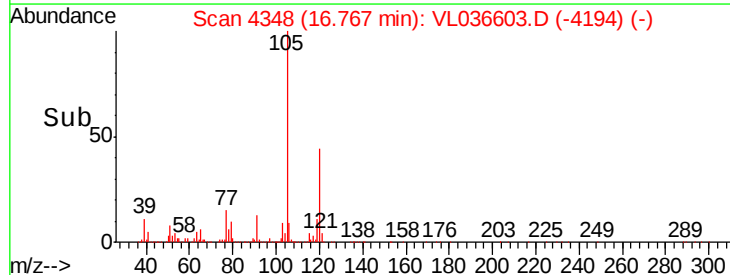
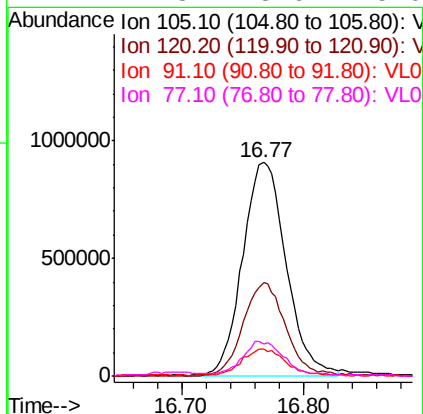
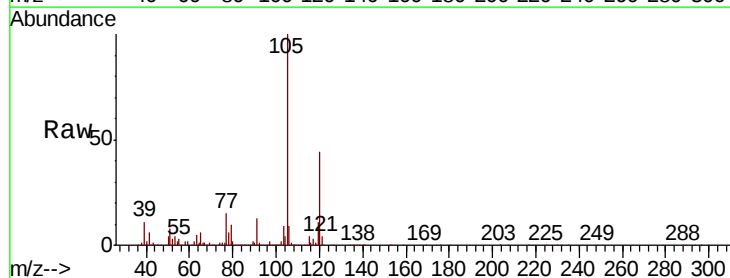
Instrument :
 MSVOA_L
 ClientSampleId :

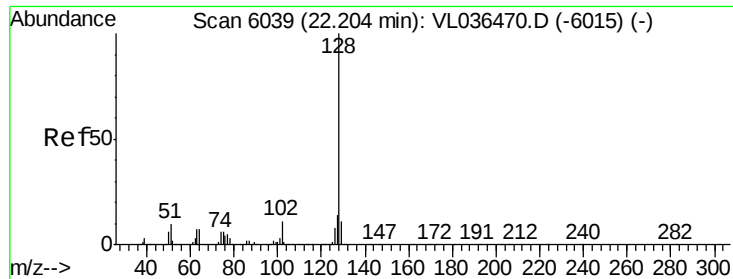
Tot Ion:105 Resp: 729660
 Ion Ratio Lower Upper
 105 100
 120 41.8 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 5.288 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.00 min
 Lab File: VL036603.D
 Acq: 31 Mar 2021 15:48

Tgt Ion:105 Resp: 2226636
 Ion Ratio Lower Upper
 105 100
 120 43.8 39.2 58.8
 91 12.6 42.6 64.0#
 77 14.8 18.6 28.0#





#79

Naphthalene

Concen: 0.038 ppbv

RT: 22.21 min Scan# 6040

Delta R.T. 0.00 min

Lab File: VL036603.D

Acq: 31 Mar 2021 15:48

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:128 Resp: 9418

Ion Ratio Lower Upper

128 100

127 5.6 10.9 16.3#

129 19.6 9.0 13.4#

