

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036644.D
 Acq On : 2 Apr 2021 14:26
 Operator : SY/AP
 Sample : M1797-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 03 02:56:10 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	5.65	49	1352954	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3420287	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3034929	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2405091	9.94	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds

					Ovalue	
3) Chlorodifluoromethane	2.98	51	93606	0.370	ppbv	# 91
4) Chloromethane	3.13	50	36389	0.408	ppbv	# 87
5) Vinyl Chloride	3.25	62	4015	0.044	ppbv	# 73
6) Bromomethane	3.46	94	1144	0.023	ppbv	# 69
7) Chloroethane	3.54	64	1398	0.044	ppbv	# 90
9) Propene	3.01	41	25342	0.314	ppbv	# 60
10) Heptane	8.11	43	27743	0.135	ppbv	# 68
11) Trichlorofluoromethane	3.94	101	42917	0.191	ppbv	# 91
12) 1,1,2-Trichlorotrifluoroet	4.47	101	3964	0.028	ppbv	# 11
13) Ethanol	3.60	45	3037134	316.486	ppbv	# 92
14) Bromoethene	3.73	108	1330	0.022	ppbv	# 8
15) Acetone	3.84	43	6739910	50.614	ppbv	# 99
16) 1,3-Butadiene	3.31	39	6898	0.074	ppbv	# 13
17) tert-Butyl alcohol	4.30	59	56419	0.487	ppbv	# 81
19) Isopropyl Alcohol	3.97	45	414276	5.655	ppbv	# 1
20) Methylene Chloride	4.33	84	1461735	23.445	ppbv	# 90
22) trans-1,2-Dichloroethene	4.88	96	1831	0.031	ppbv	# 72
23) Vinyl Acetate	5.06	43	23449	0.103	ppbv	# 69
24) 1,1-Dichloroethane	5.00	63	4135	0.025	ppbv	# 90
25) Ethyl Acetate	5.67	43	1467334	4.635	ppbv	# 78
26) Hexane	5.67	57	1973395	13.432	ppbv	# 47
27) Carbon Disulfide	4.54	76	39099	0.270	ppbv	# 70
29) Chloroform	5.74	83	57594	0.245	ppbv	# 95
30) Cyclohexane	7.11	84	9495	0.080	ppbv	# 1
32) 1,1,1-Trichloroethane	6.50	97	115240	0.487	ppbv	# 63
34) 2-Butanone	5.24	43	434124	2.600	ppbv	# 100
35) Carbon Tetrachloride	7.00	117	6835	0.026	ppbv	# 42
36) Benzene	6.88	78	69459	0.220	ppbv	# 89
37) 1,2-Dichloroethane	6.30	62	7225	0.039	ppbv	# 82
39) 1,2-Dichloropropane	7.16	63	896596	7.007	ppbv	# 23
40) 1,4-Dioxane	7.83	88	1410	0.047	ppbv	# 1
41) Tetrahydrofuran	6.04	42	9016	0.117	ppbv	# 43
43) Methyl Methacrylate	8.00	69	5128	0.048	ppbv	# 1
44) 2,2,4-Trimethylpentane	7.86	57	46279	0.083	ppbv	# 8
50) 4-Methyl-2-Pentanone	8.73	43	12734	0.053	ppbv	# 40
52) Tetrachloroethene	11.20	164	6472	0.056	ppbv	# 87
53) Toluene	9.80	91	371796	1.107	ppbv	# 99
56) 1,1,1,2-Tetrachloroethane	12.11	131	4575	0.033	ppbv	# 9
57) Chlorobenzene	12.13	112	8939	0.035	ppbv	# 72
58) Ethyl Benzene	12.70	91	76065	0.172	ppbv	# 95
59) m/p-Xylene	12.98	91	46745	0.121	ppbv	# 32

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

60) o-Xylene	13.68	91	114876	0.308	ppbv	96
61) Styrene	13.52	104	5260	0.028	ppbv #	1
62) Isopropylbenzene	14.65	105	14380	0.029	ppbv #	1
65) tert-Butylbenzene	16.75	119	168777	0.388	ppbv #	83
66) Benzyl Chloride	16.87	91	1873	0.039	ppbv #	1
67) sec-Butylbenzene	17.28	105	199935	0.326	ppbv	99
69) p-Isopropyltoluene	17.64	119	230281	0.480	ppbv	97
70) n-Butylbenzene	18.55	91	606036	1.219	ppbv #	41
72) 4-Ethyltoluene	15.82	105	146263	0.358	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.99	105	348033	0.914	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	1143489	2.806	ppbv #	70
75) 1,3-Dichlorobenzene	16.98	146	9297	0.041	ppbv #	22
76) 1,4-Dichlorobenzene	17.11	146	6942	0.030	ppbv #	1
77) 1,2-Dichlorobenzene	17.80	146	10478	0.049	ppbv #	21
78) Hexachloro-1,3-Butadiene	23.33	225	4314	0.022	ppbv #	18
79) Naphthalene	22.19	128	249056	1.047	ppbv	95
80) Naphthalene, 2-methyl-	24.96	142	203703	4.344	ppbv	97
81) 1,2,4-Trichlorobenzene	21.92	180	25401	0.173	ppbv #	10

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.02 min

Lab File: VL036644.D

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Instrument :

MSVOA_L

ClientSampleId :

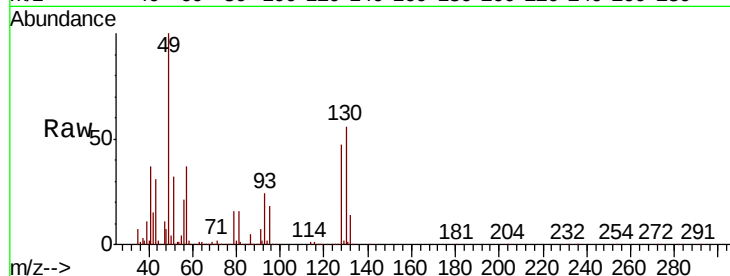
Tot Ion: 49 Resp: 1352954

Ion Ratio Lower Upper

49 100

128 47.4 23.5 70.6

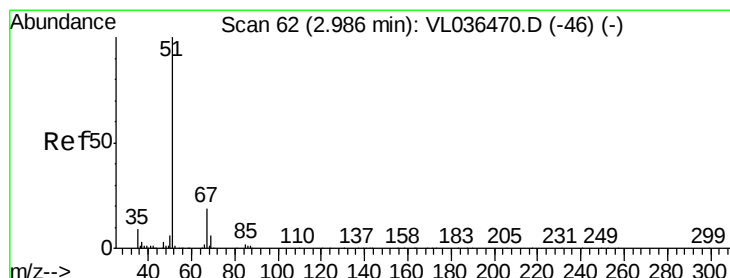
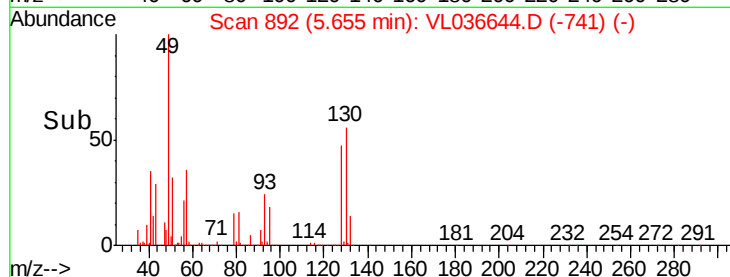
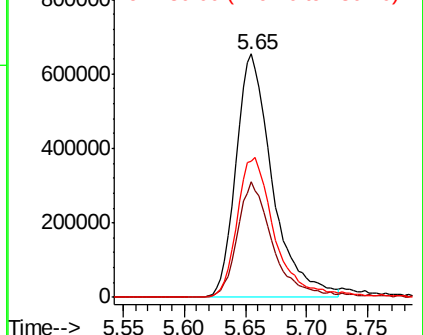
130 60.7 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.370 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036644.D

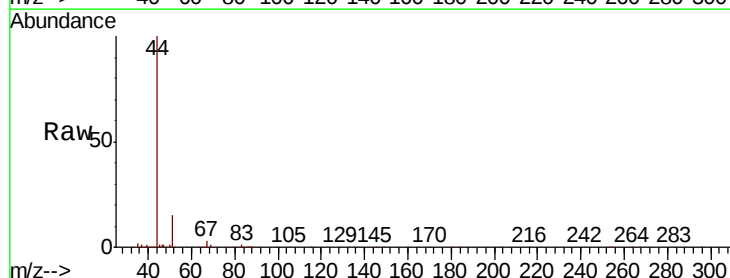
Acq: 2 Apr 2021 14:26

Tgt Ion: 51 Resp: 93606

Ion Ratio Lower Upper

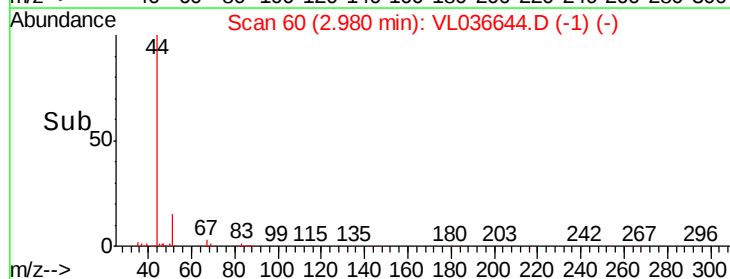
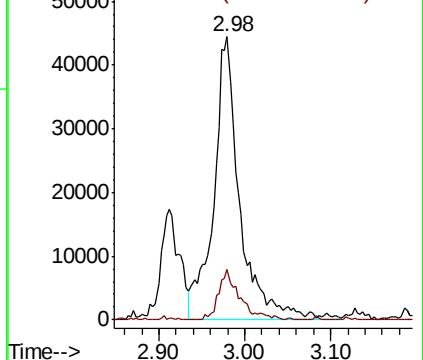
51 100

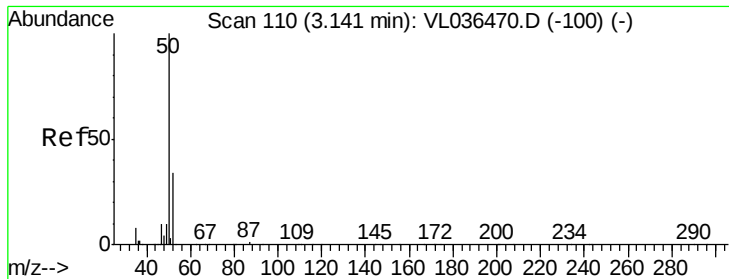
67 14.5 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.408 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

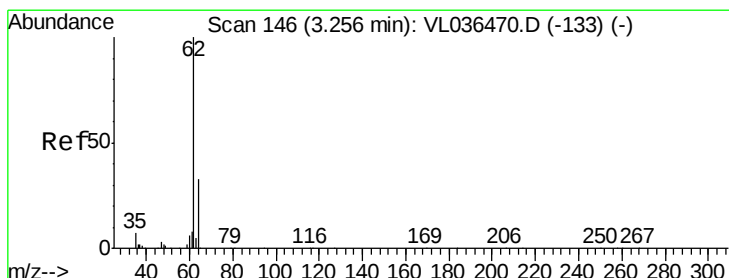
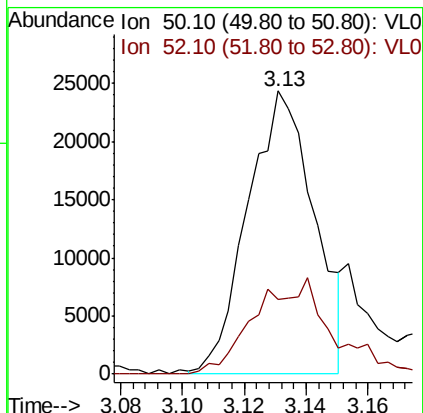
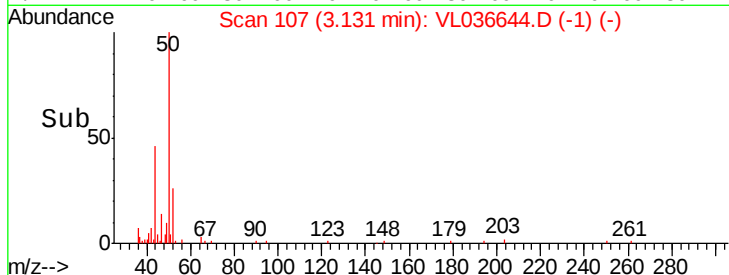
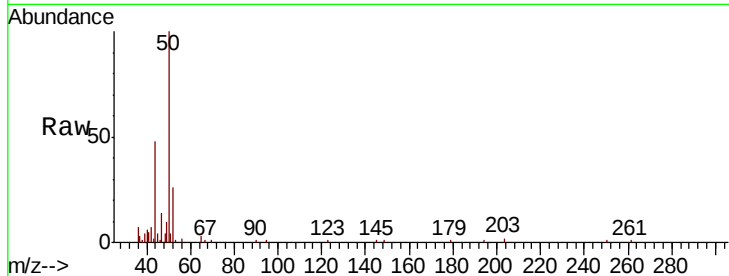
ClientSampled :

Tot Ion: 50 Resp: 36389

Ion Ratio Lower Upper

50 100

52 26.6 27.0 40.6#



#5

Vinyl Chloride

Concen: 0.044 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL036644.D

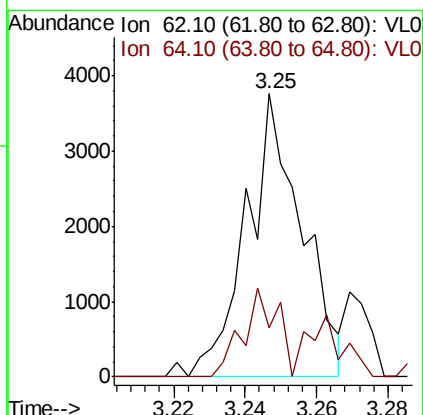
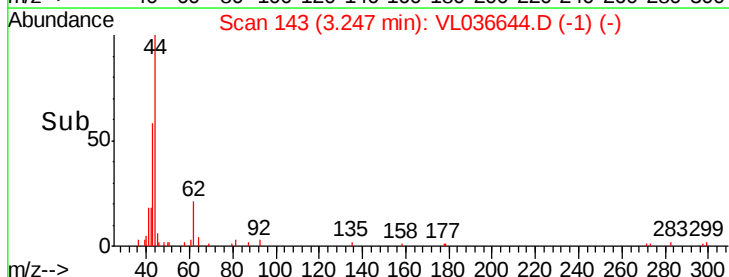
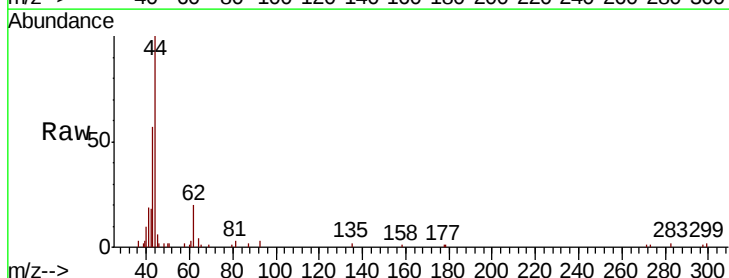
Acq: 2 Apr 2021 14:26

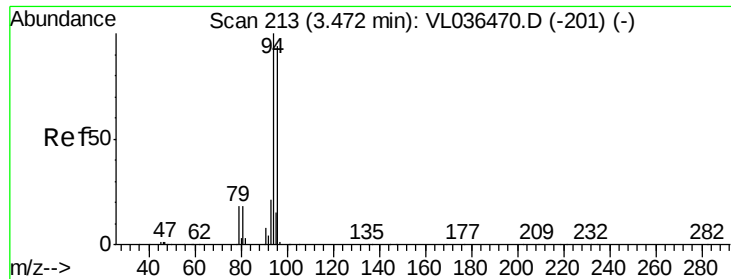
Tgt Ion: 62 Resp: 4015

Ion Ratio Lower Upper

62 100

64 17.6 26.4 39.6#





#6

Bromomethane

Concen: 0.023 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.01 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

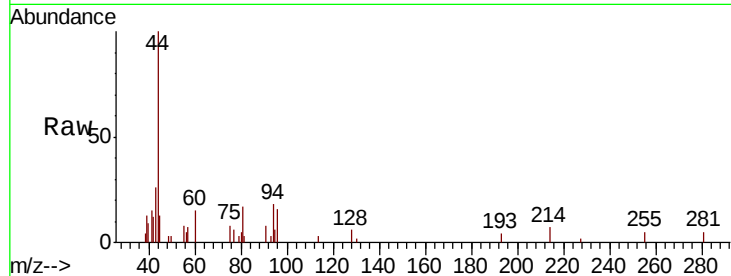
ClientSampleId :

Tot Ion: 94 Resp: 1144

Ion Ratio Lower Upper

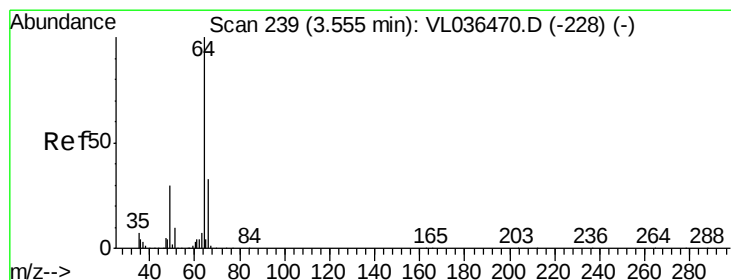
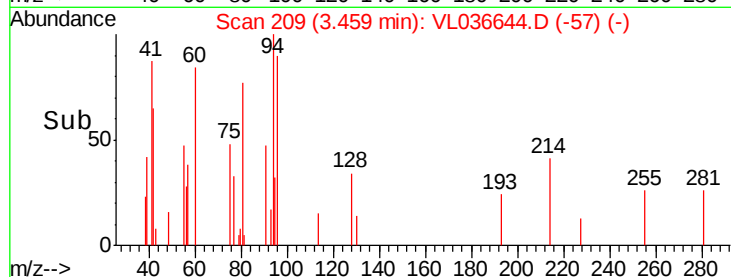
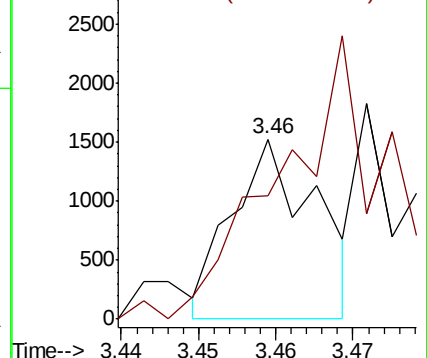
94 100

96 63.8 74.9 112.3#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.044 ppbv

RT: 3.54 min Scan# 235

Delta R.T. -0.01 min

Lab File: VL036644.D

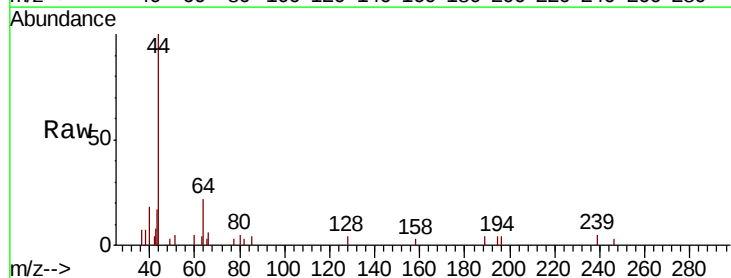
Acq: 2 Apr 2021 14:26

Tgt Ion: 64 Resp: 1398

Ion Ratio Lower Upper

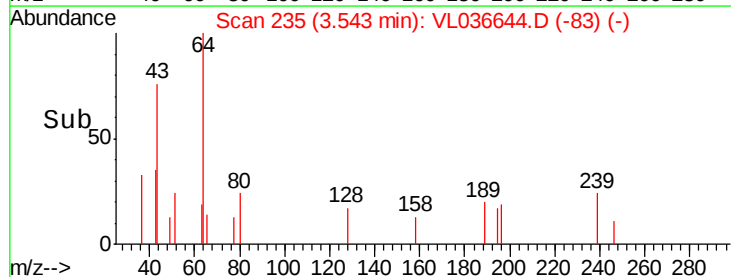
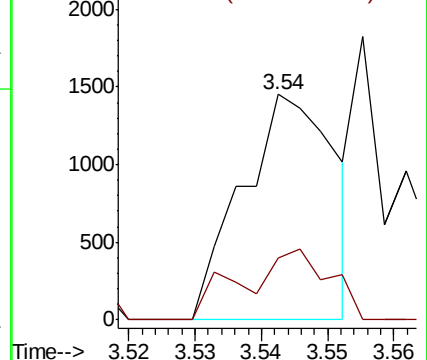
64 100

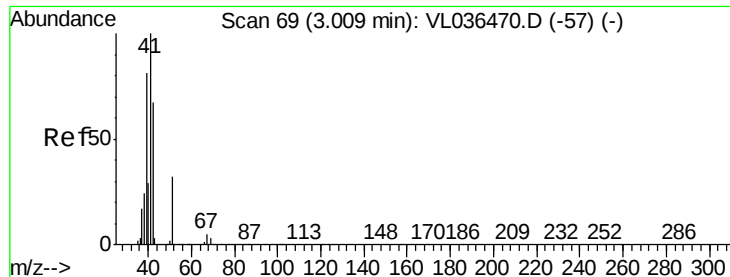
66 27.3 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.314 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

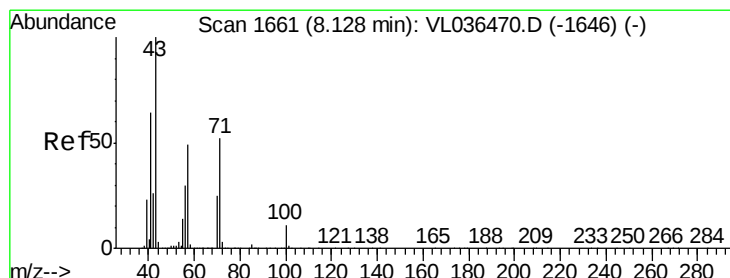
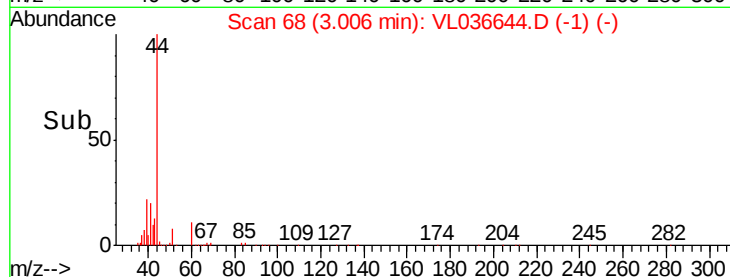
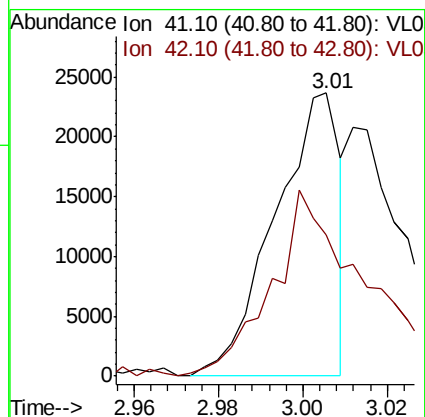
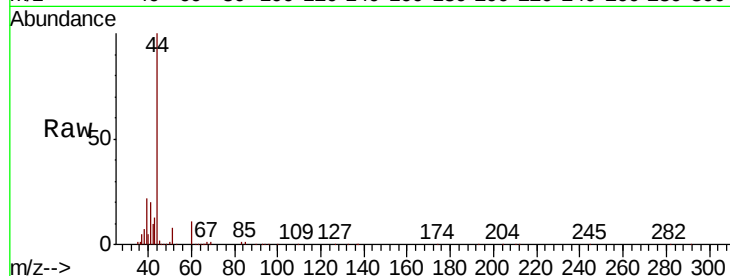
ClientSampleId :

Tot Ion: 41 Resp: 25342

Ion Ratio Lower Upper

41 100

42 104.5 57.0 85.4#



#10

Heptane

Concen: 0.135 ppbv

RT: 8.11 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL036644.D

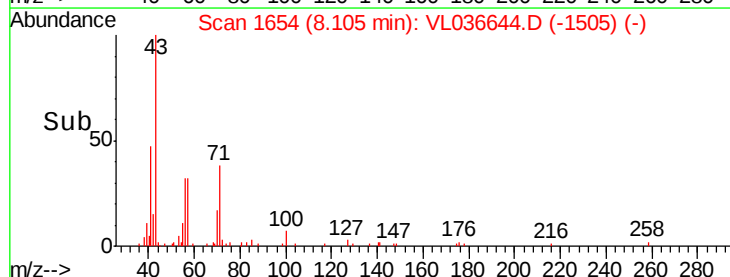
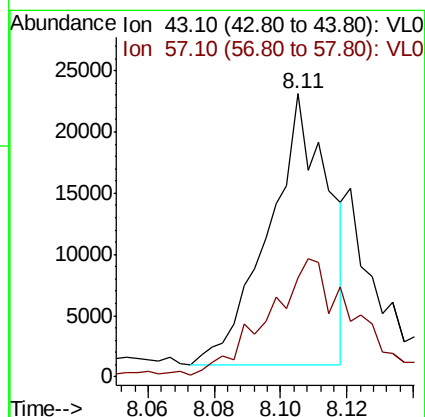
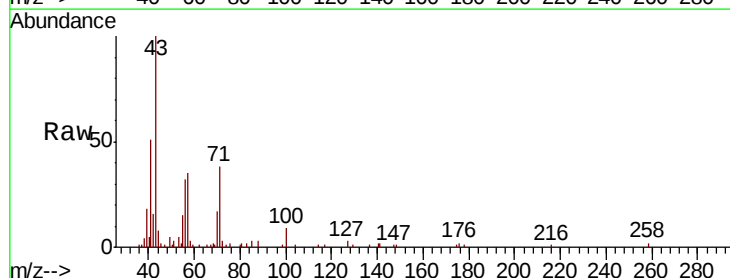
Acq: 2 Apr 2021 14:26

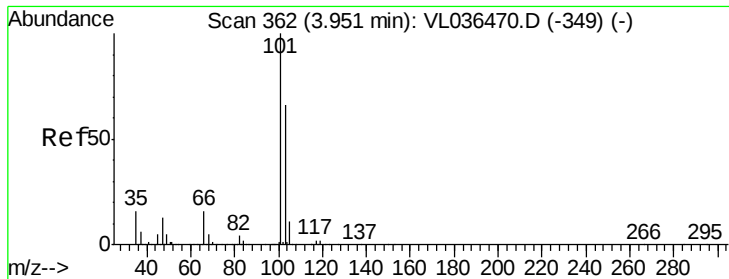
Tgt Ion: 43 Resp: 27743

Ion Ratio Lower Upper

43 100

57 70.7 39.0 58.6#

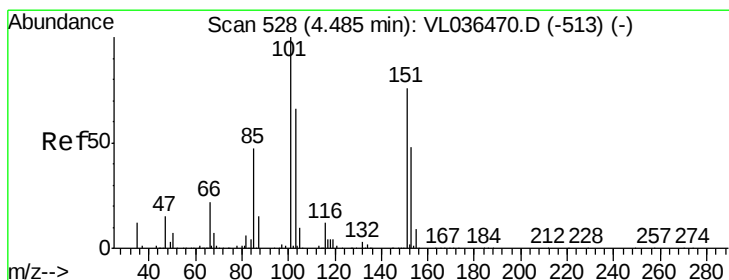
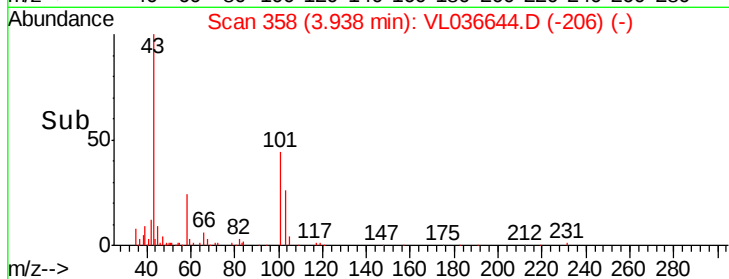
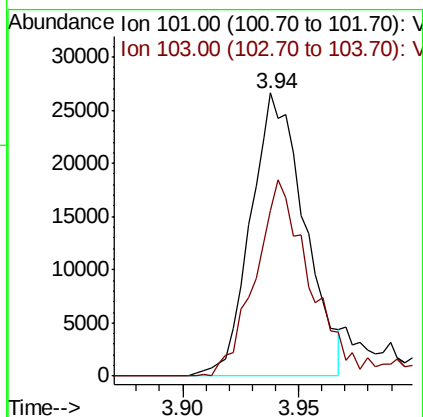
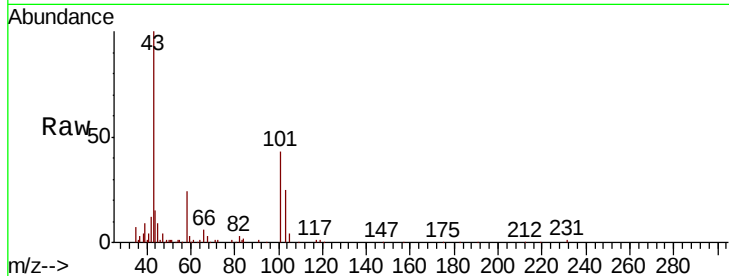




#11
 Trichlorofluoromethane
 Concen: 0.191 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

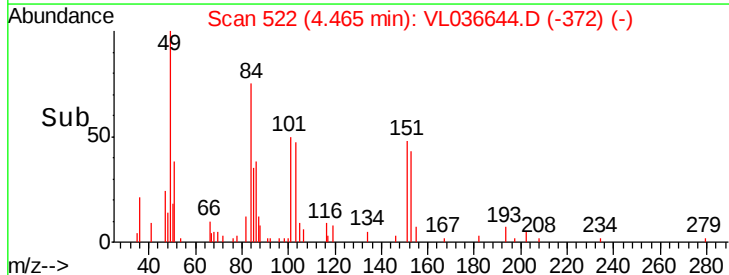
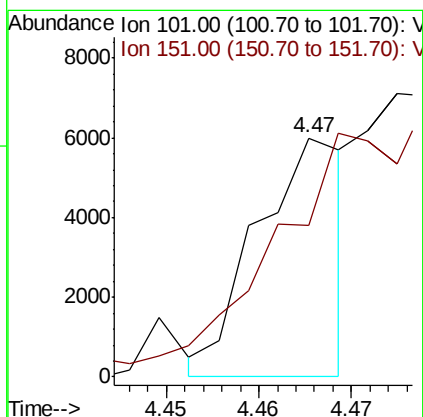
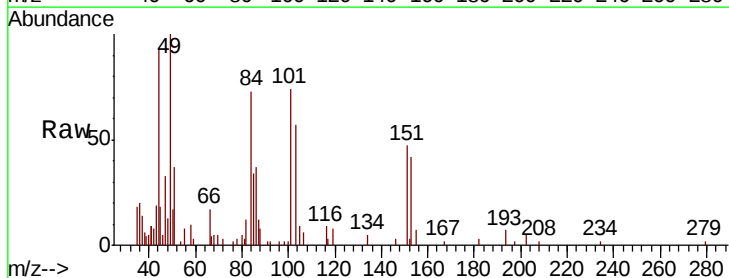
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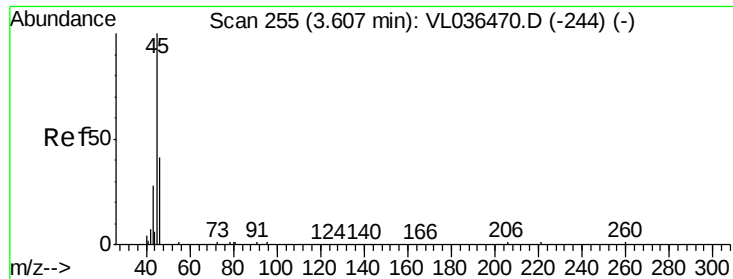
Tot Ion:101 Resp: 42917
 Ion Ratio Lower Upper
 101 100
 103 58.6 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.028 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.02 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

Tgt Ion:101 Resp: 3964
 Ion Ratio Lower Upper
 101 100
 151 0.0 60.9 91.3#

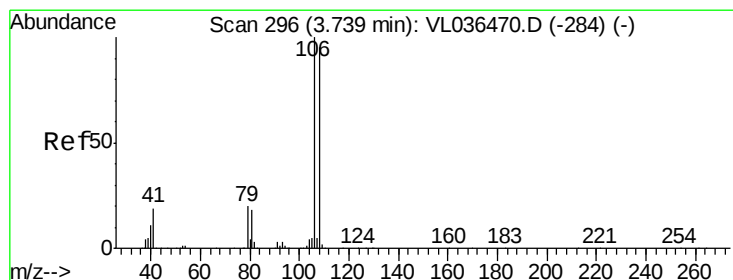
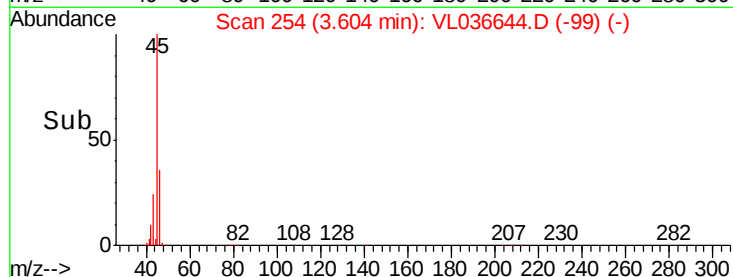
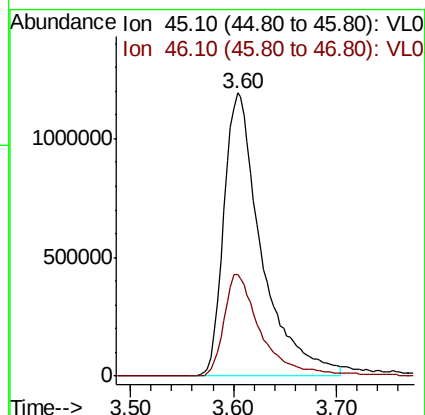
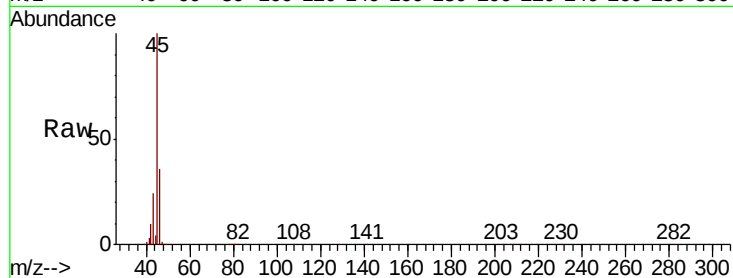




#13
Ethanol
Concen: 316.486 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

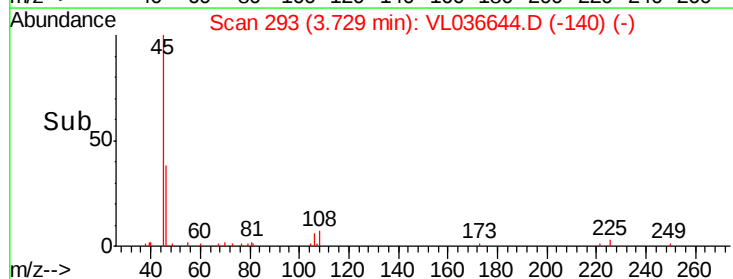
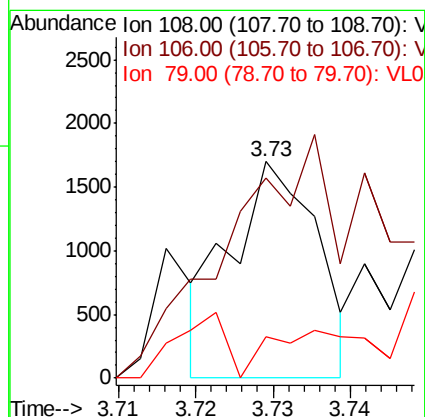
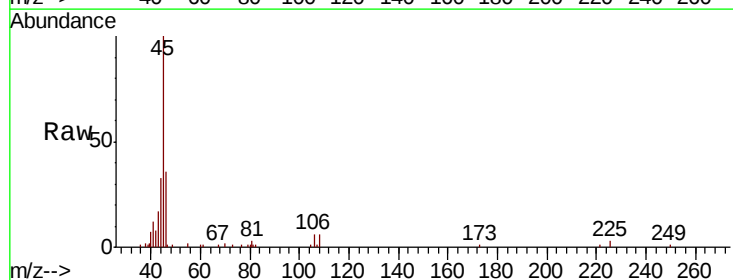
Instrument :
MSVOA_L
ClientSampleId :

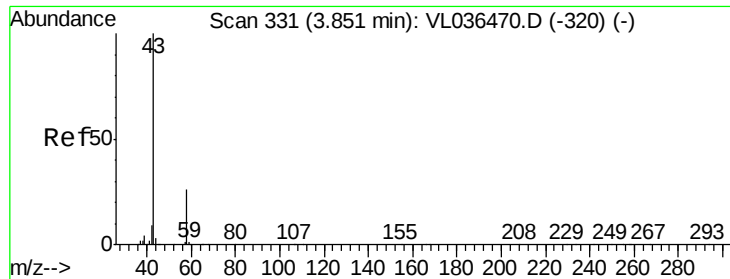
Tot Ion: 45 Resp: 3037134
Ion Ratio Lower Upper
45 100
46 36.3 16.6 66.2



#14
Bromoethene
Concen: 0.022 ppbv
RT: 3.73 min Scan# 293
Delta R.T. -0.01 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion:108 Resp: 1330
Ion Ratio Lower Upper
108 100
106 219.2 89.0 133.6#
79 0.0 16.6 25.0#





#15

Acetone

Concen: 50.614 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

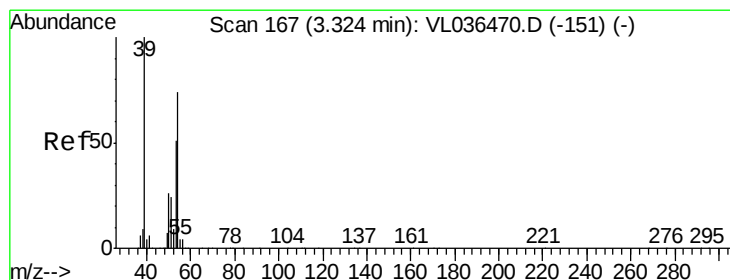
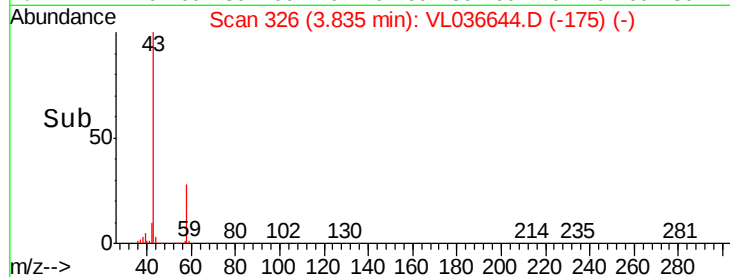
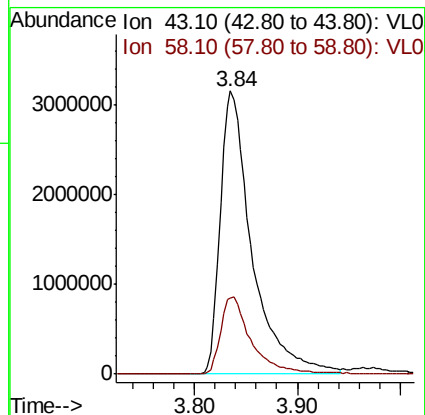
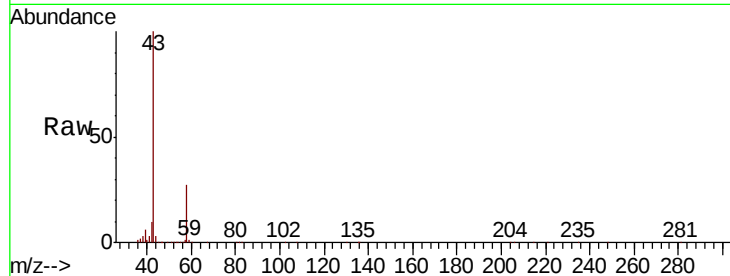
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 6739910

Ion Ratio Lower Upper

43 100

58 27.1 21.2 31.8



#16

1,3-Butadiene

Concen: 0.074 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.01 min

Lab File: VL036644.D

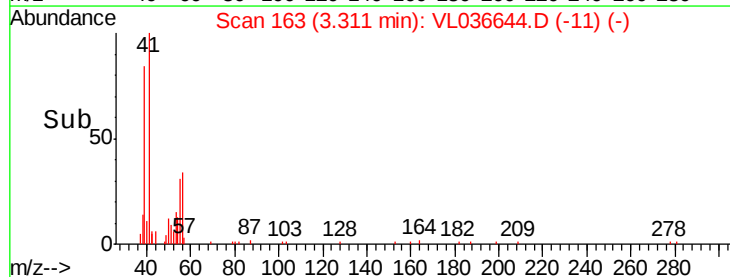
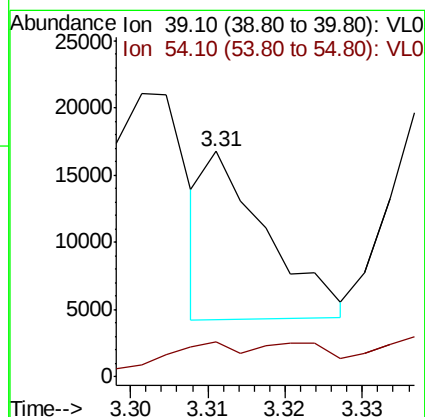
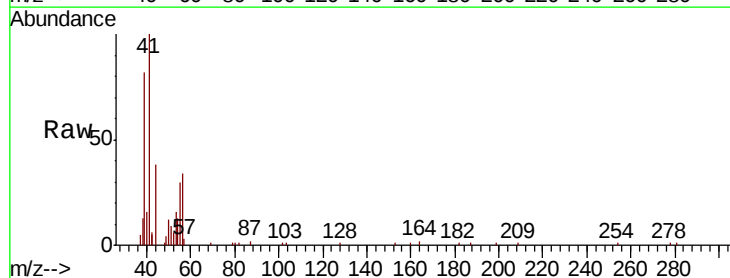
Acq: 2 Apr 2021 14:26

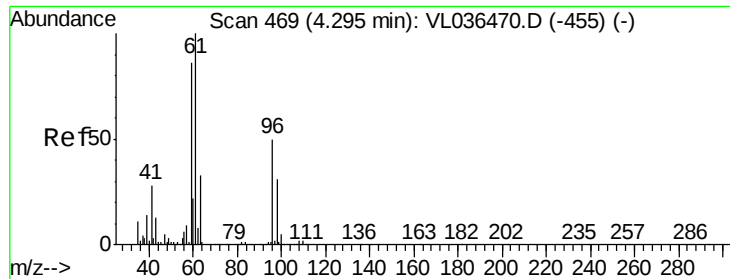
Tgt Ion: 39 Resp: 6898

Ion Ratio Lower Upper

39 100

54 0.0 58.8 88.2#



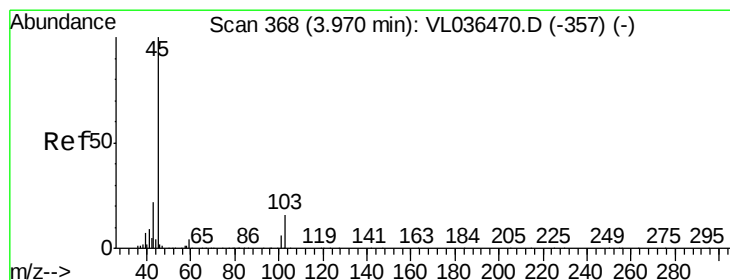
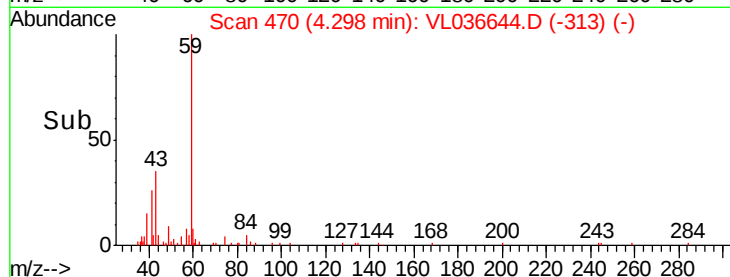
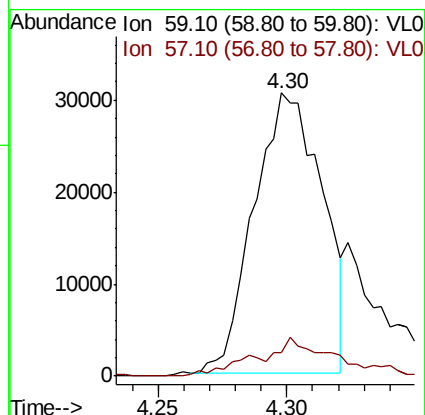
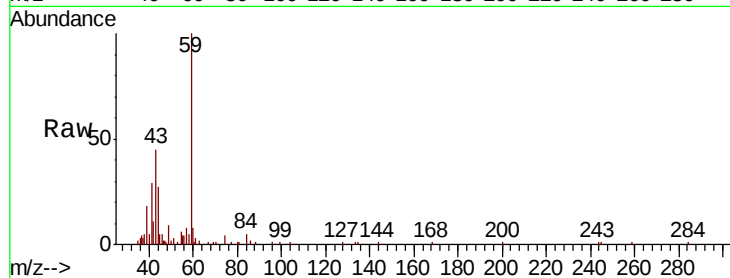


#17

tert-Butyl alcohol
Concen: 0.487 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.00 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Instrument :
MSVOA_L
ClientSampleId :

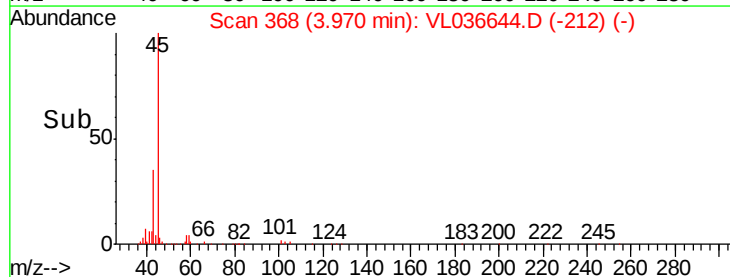
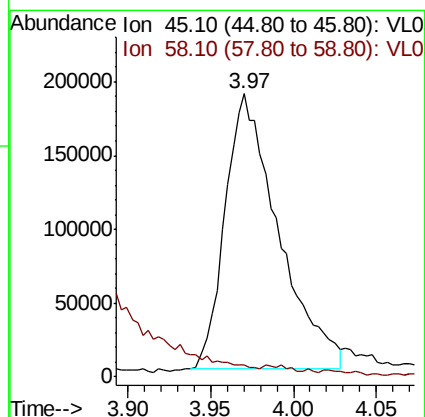
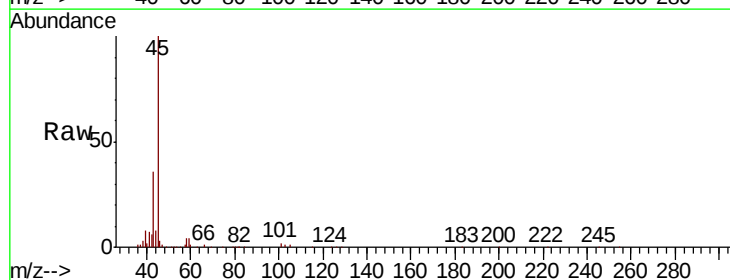
Tot Ion: 59 Resp: 56419
Ion Ratio Lower Upper
59 100
57 17.9 8.6 12.8#

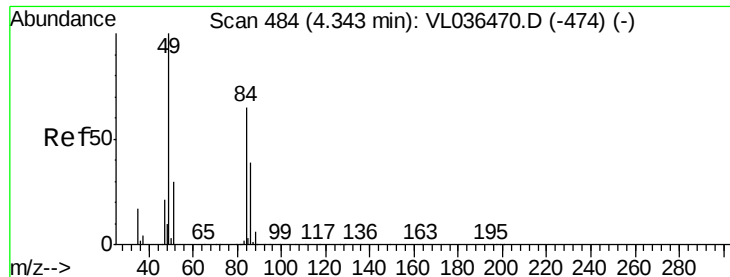


#19

Isopropyl Alcohol
Concen: 5.655 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.00 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 45 Resp: 414276
Ion Ratio Lower Upper
45 100
58 441.5 2.9 4.3#

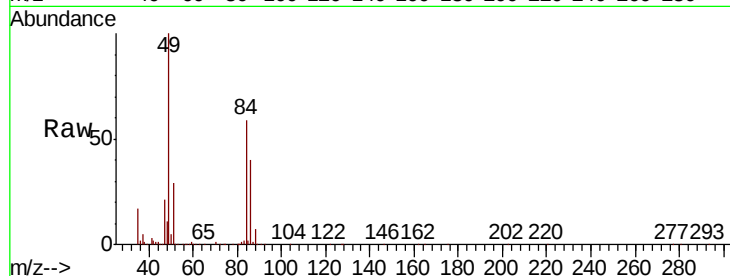




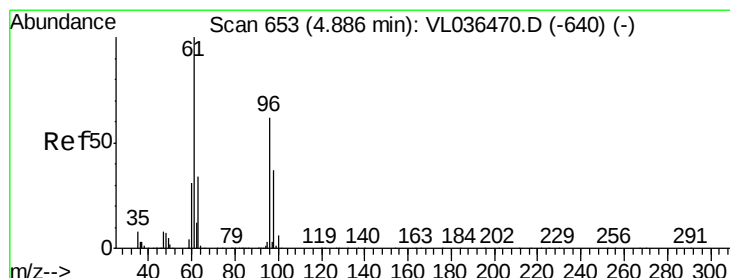
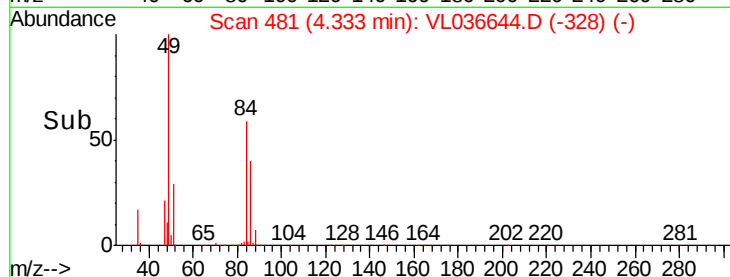
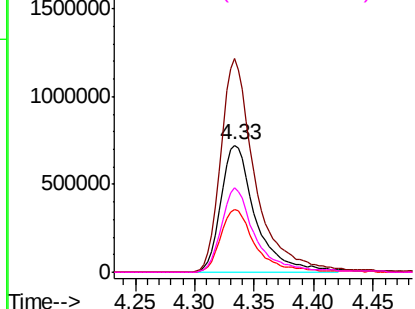
#20
Methylene Chloride
Concen: 23.445 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 84 Resp: 1461735
Ion Ratio Lower Upper
84 100
49 168.4 122.9 184.3
51 49.6 36.9 55.3
86 66.7 48.2 72.4

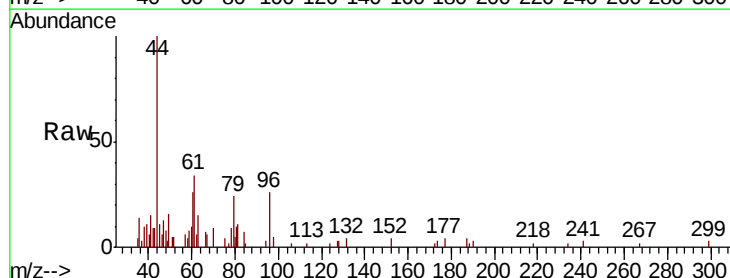


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

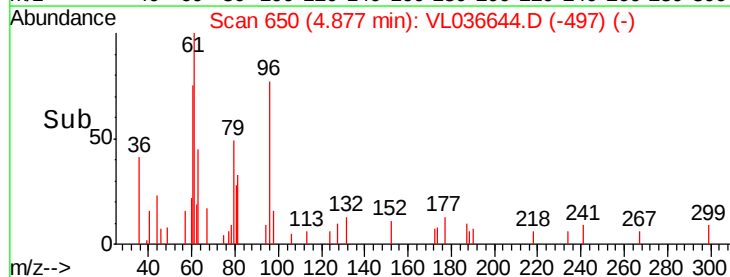
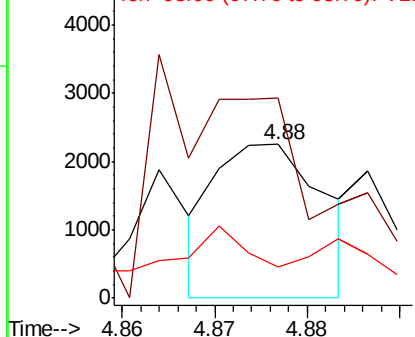


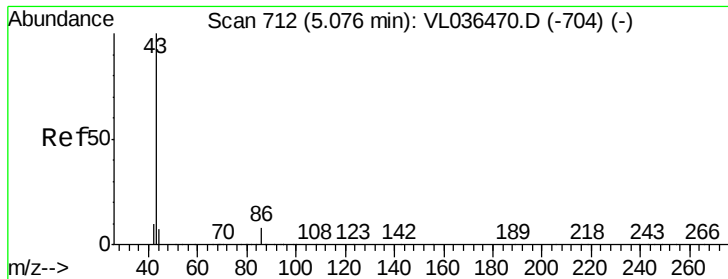
#22
trans-1,2-Dichloroethene
Concen: 0.031 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.01 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 96 Resp: 1831
Ion Ratio Lower Upper
96 100
61 149.4 129.4 194.0
98 0.0 48.2 72.4#



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





#23

Vinyl Acetate

Concen: 0.103 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 23449

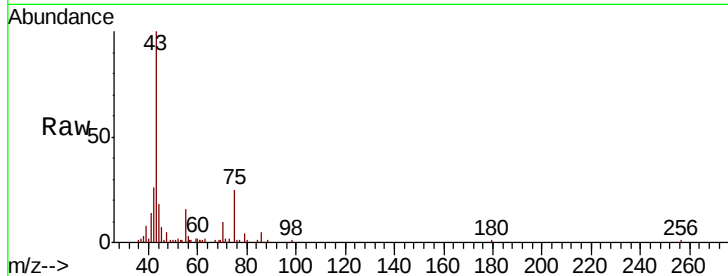
Ion Ratio Lower Upper

43 100

86 2.8 5.4 8.0#

42 29.9 8.5 12.7#

44 10.9 4.6 7.0#

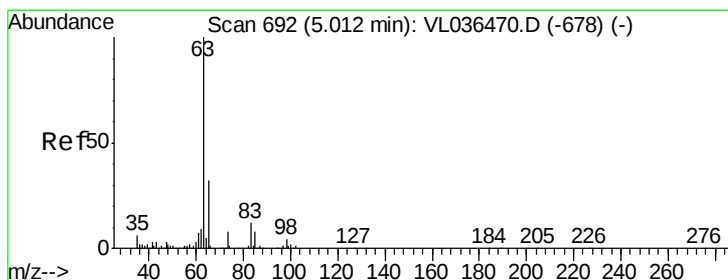
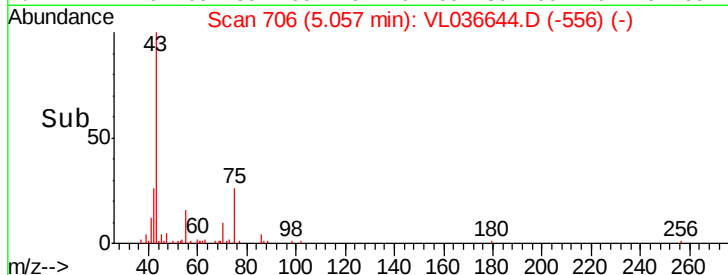
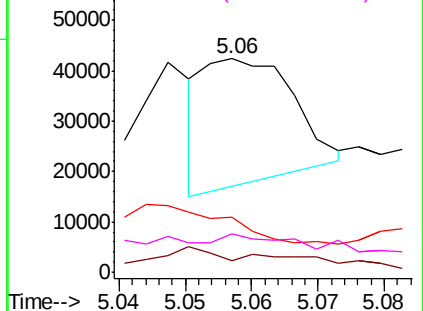


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.025 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

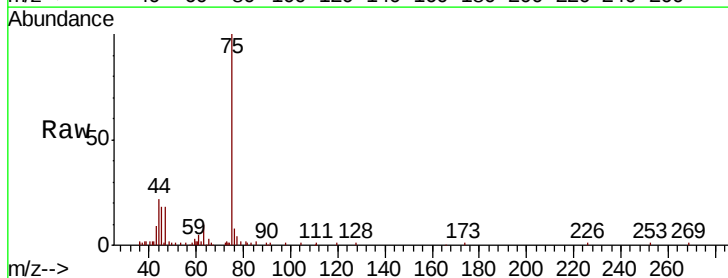
Tgt Ion: 63 Resp: 4135

Ion Ratio Lower Upper

63 100

98 7.9 2.1 6.2#

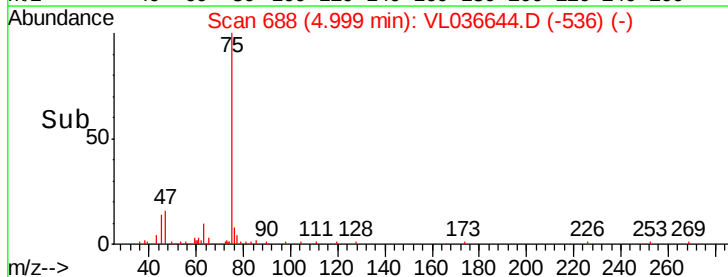
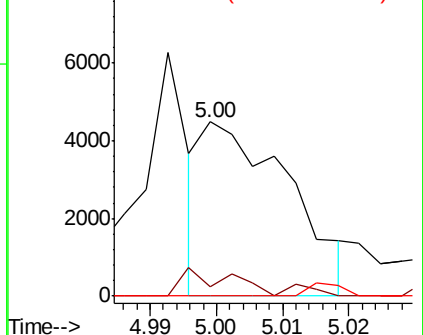
100 0.0 0.9 2.8#

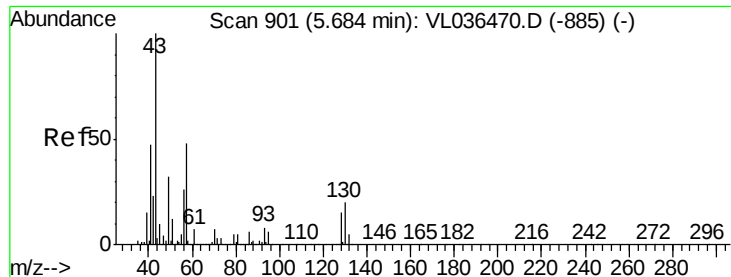


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 4.635 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

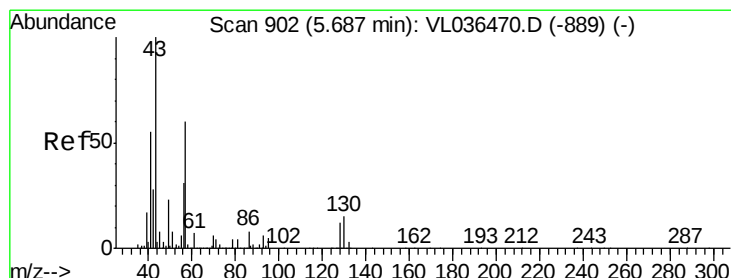
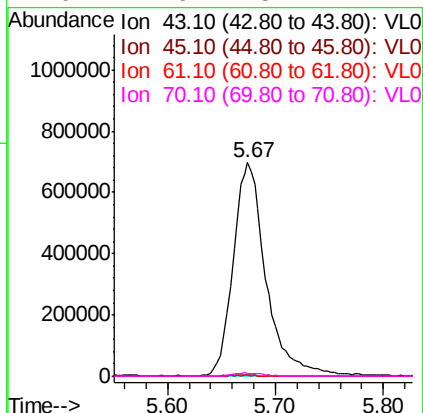
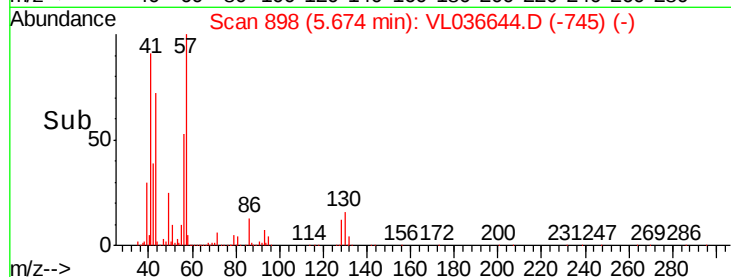
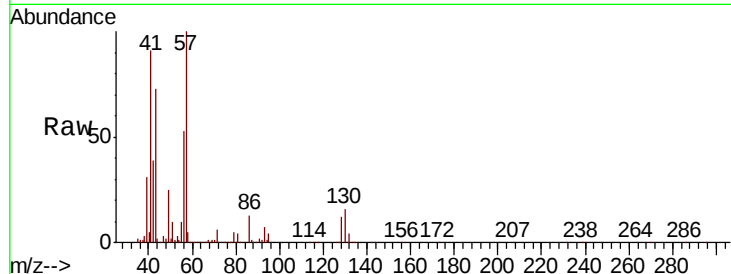
Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1467334

Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.9	11.9#
61	0.5	7.4	11.2#
70	1.6	5.1	7.7#



#26

Hexane

Concen: 13.432 ppbv

RT: 5.67 min Scan# 898

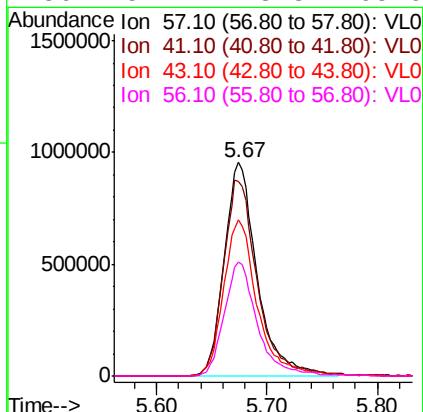
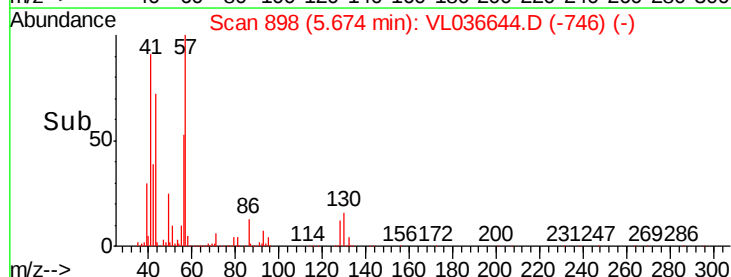
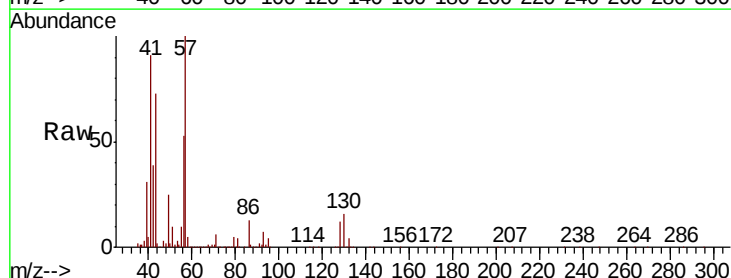
Delta R.T. -0.01 min

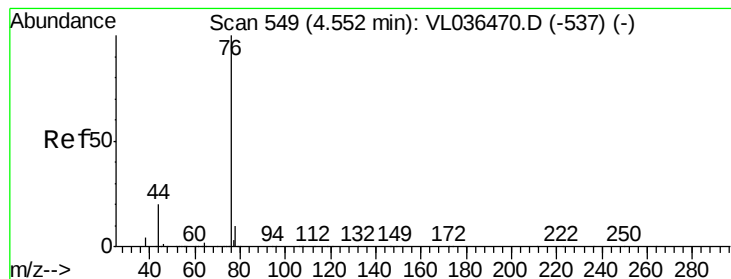
Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Tgt Ion: 57 Resp: 1973395

Ion	Ratio	Lower	Upper
57	100		
41	95.5	77.2	115.8
43	75.0	173.8	260.6#
56	54.2	43.8	65.6





#27

Carbon Disulfide

Concen: 0.270 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.01 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

ClientSampleId :

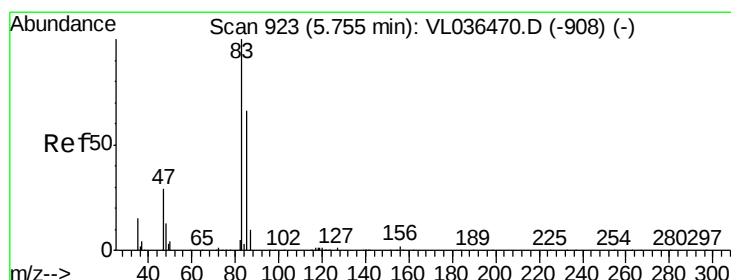
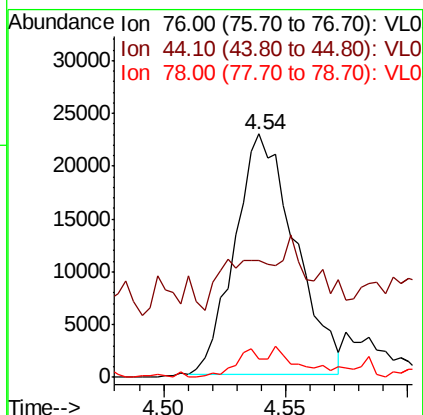
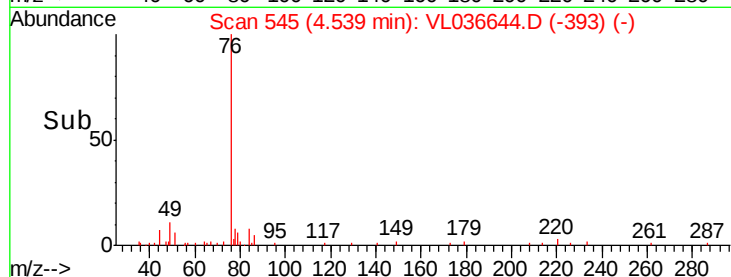
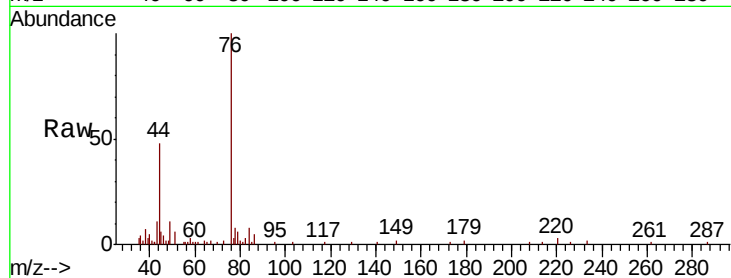
Tot Ion: 76 Resp: 39099

Ion Ratio Lower Upper

76 100

44 40.9 17.5 26.3#

78 14.1 8.6 13.0#



#29

Chloroform

Concen: 0.245 ppbv

RT: 5.74 min Scan# 919

Delta R.T. -0.01 min

Lab File: VL036644.D

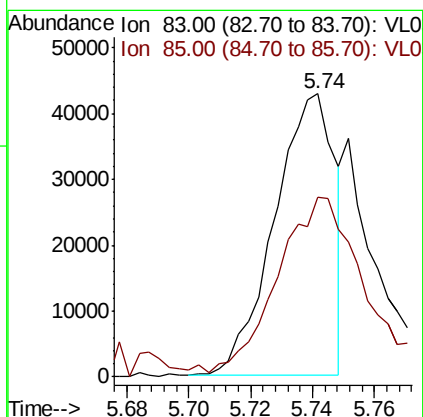
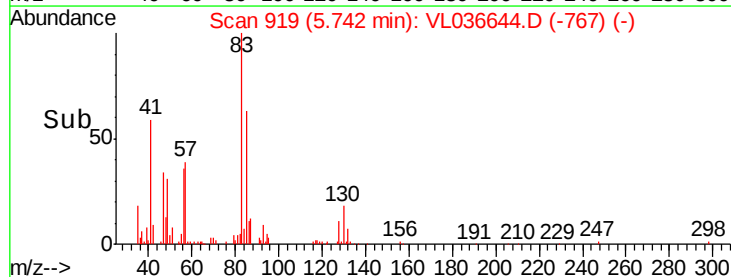
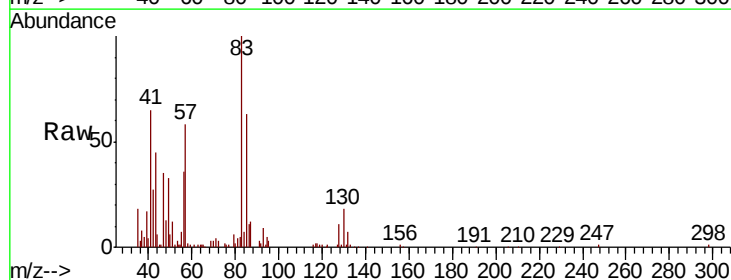
Acq: 2 Apr 2021 14:26

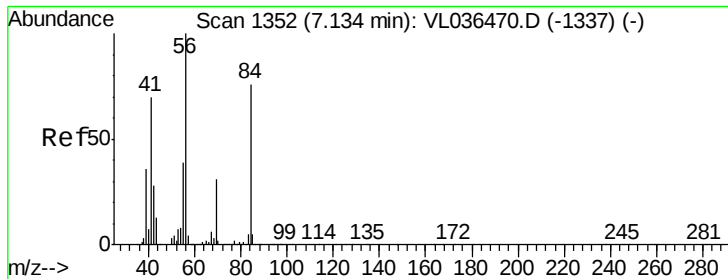
Tgt Ion: 83 Resp: 57594

Ion Ratio Lower Upper

83 100

85 61.4 52.6 78.8

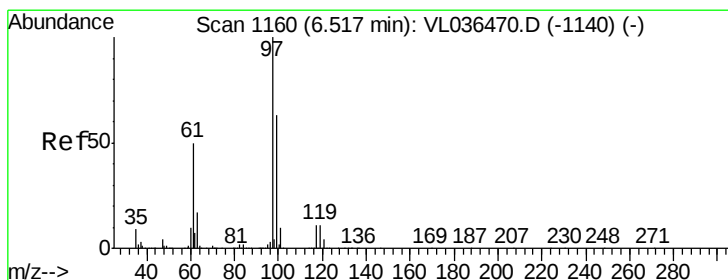
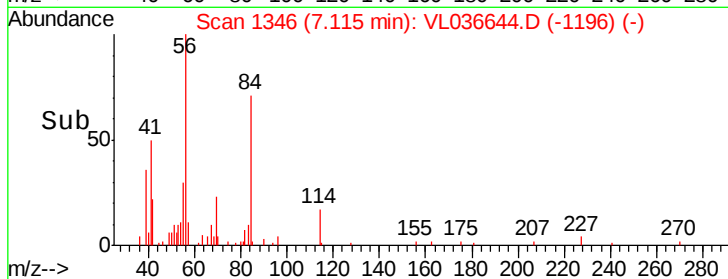
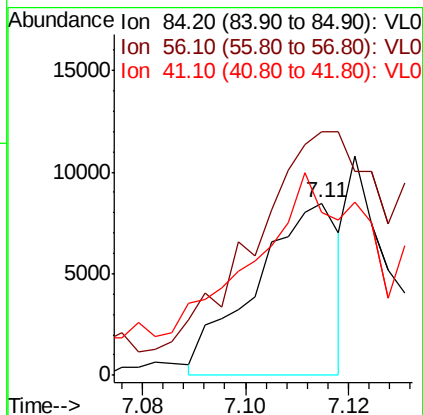
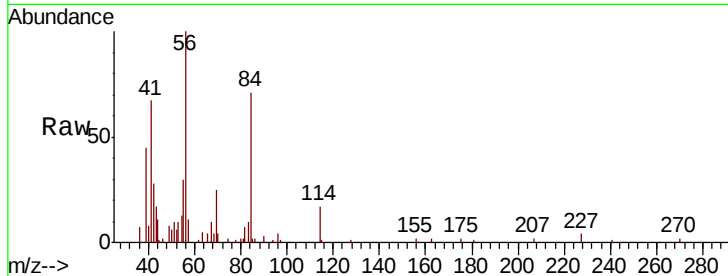




#30
Cvclohexane
Concen: 0.080 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

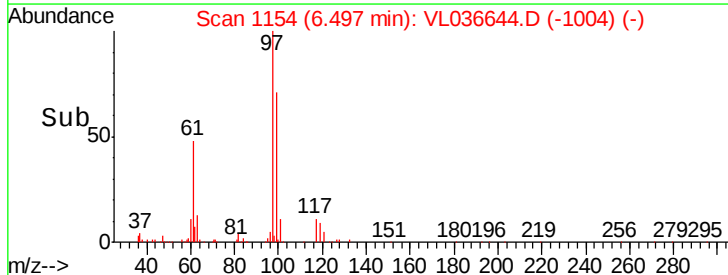
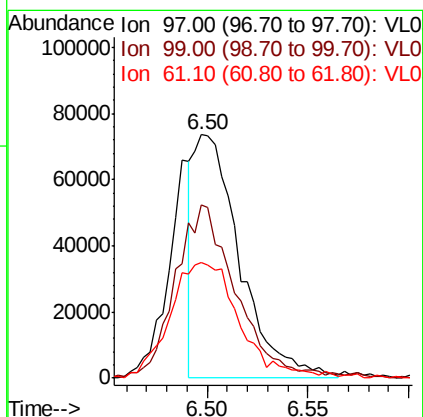
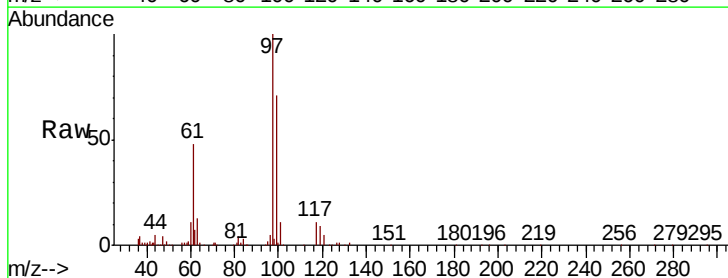
Instrument :
MSVOA_L
ClientSampled :

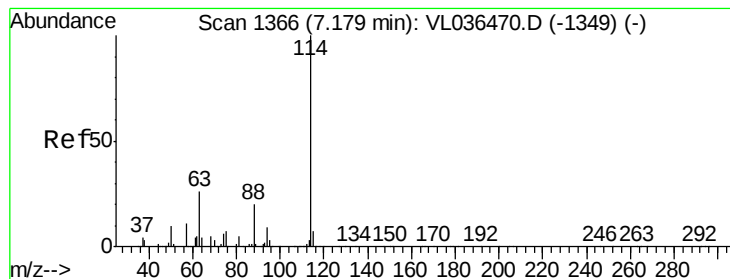
Tot Ion: 84 Resp: 9495
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 259.4 75.3 112.9#



#32
1,1,1-Trichloroethane
Concen: 0.487 ppbv
RT: 6.50 min Scan# 1154
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 97 Resp: 115240
Ion Ratio Lower Upper
97 100
99 95.9 51.4 77.0#
61 73.4 40.6 60.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

ClientSampleId :

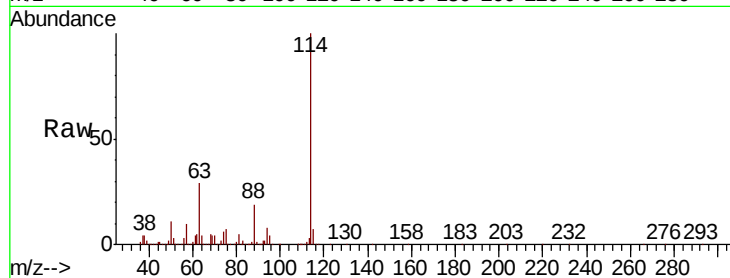
Tot Ion:114 Resp: 3420287

Ion Ratio Lower Upper

114 100

63 26.8 22.4 33.6

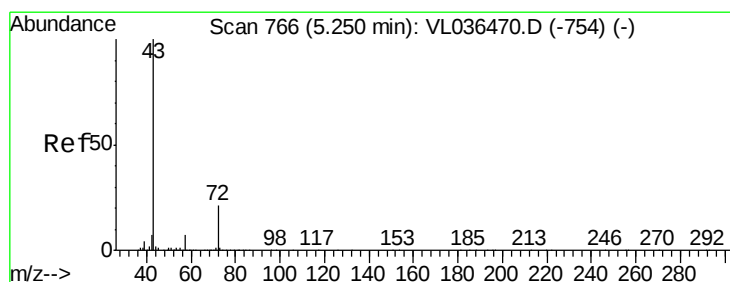
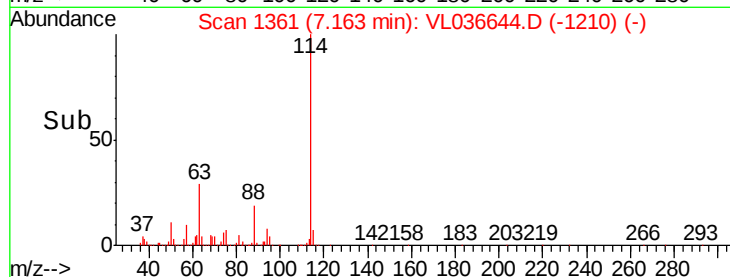
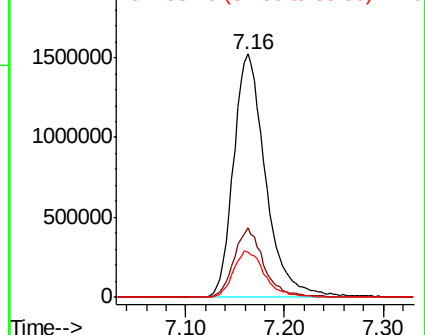
88 19.0 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.600 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL036644.D

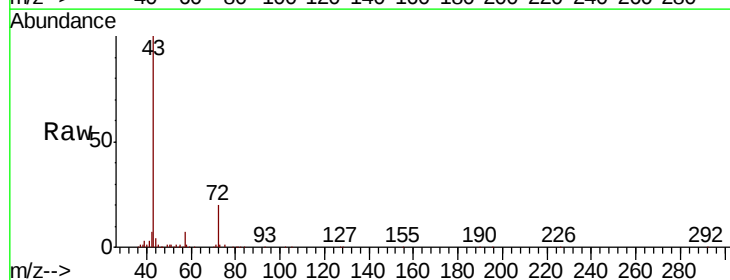
Acq: 2 Apr 2021 14:26

Tgt Ion: 43 Resp: 434124

Ion Ratio Lower Upper

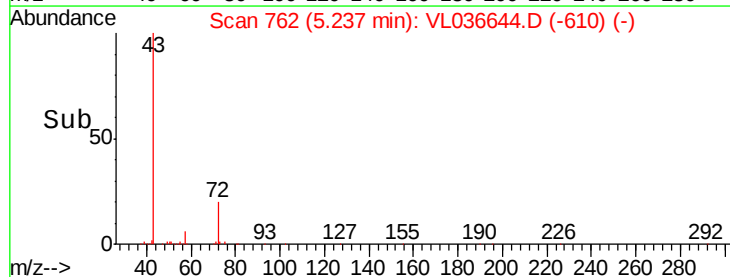
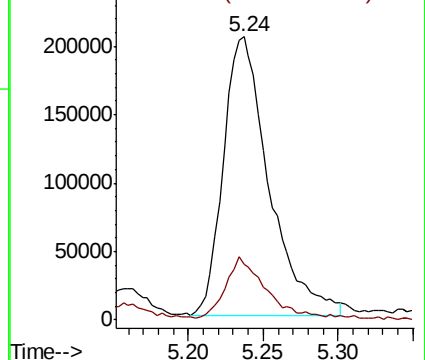
43 100

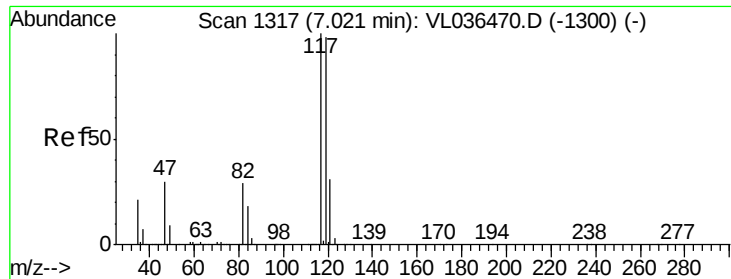
72 21.2 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

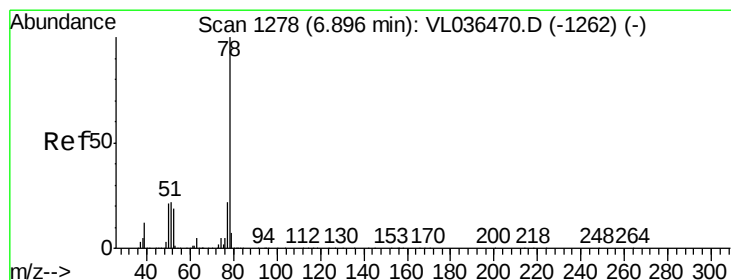
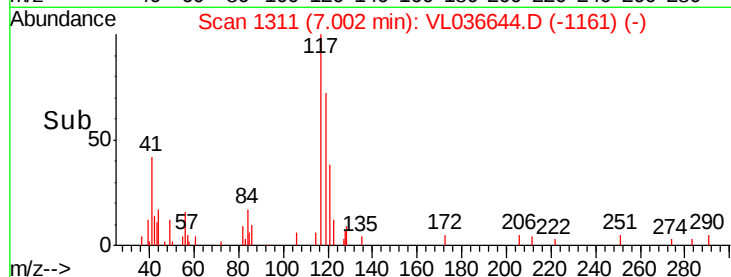
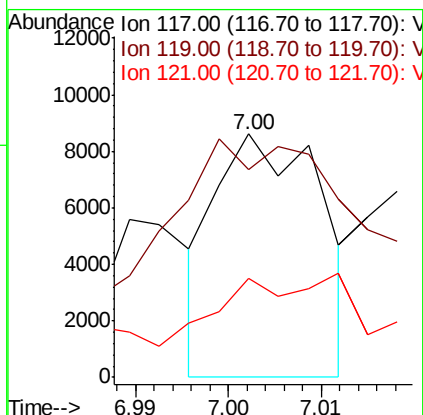
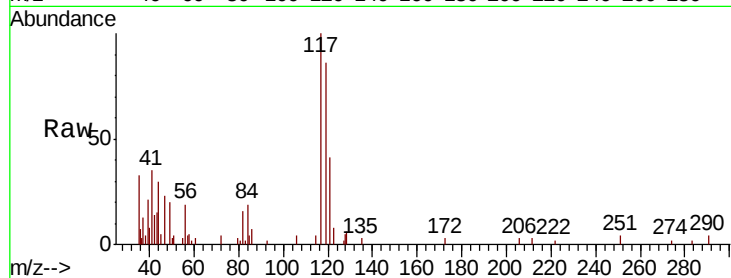




#35
Carbon Tetrachloride
Concen: 0.026 ppbv
RT: 7.00 min Scan# 1311
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

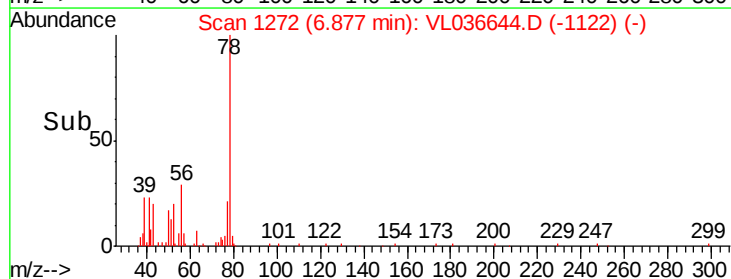
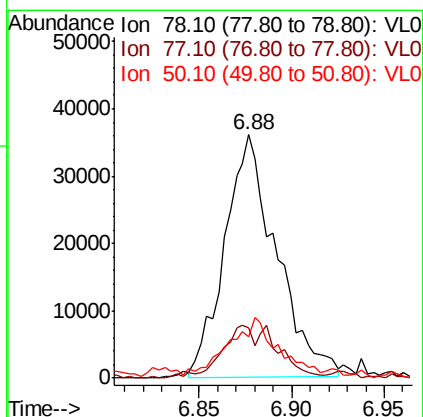
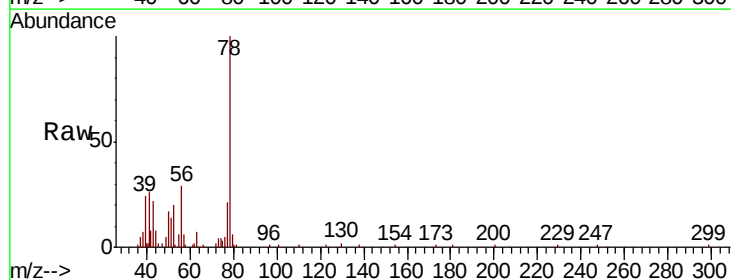
Instrument :
MSVOA_L
ClientSampleId :

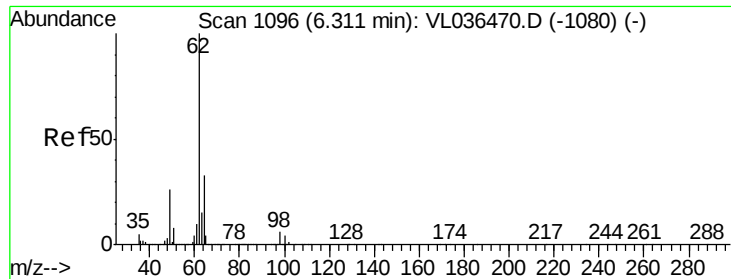
Tot Ion:117 Resp: 6835
Ion Ratio Lower Upper
117 100
119 27.0 78.2 117.2#
121 39.1 24.5 36.7#



#36
Benzene
Concen: 0.220 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 78 Resp: 69459
Ion Ratio Lower Upper
78 100
77 19.0 18.0 27.0
50 13.8 16.5 24.7#

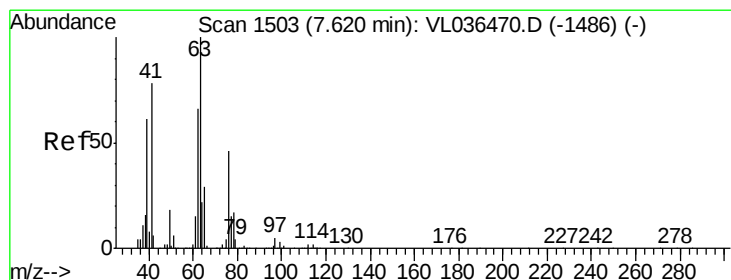
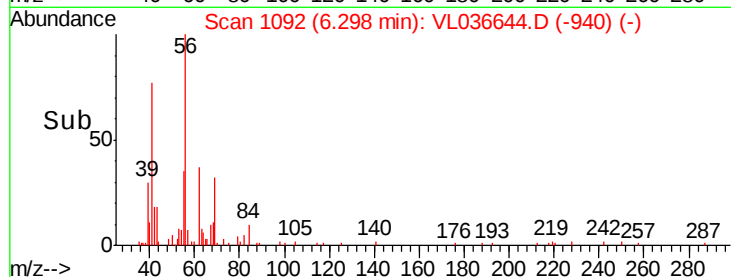
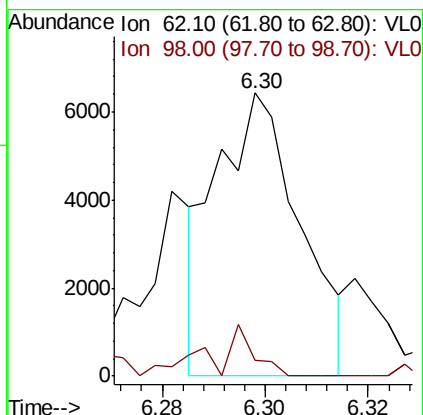
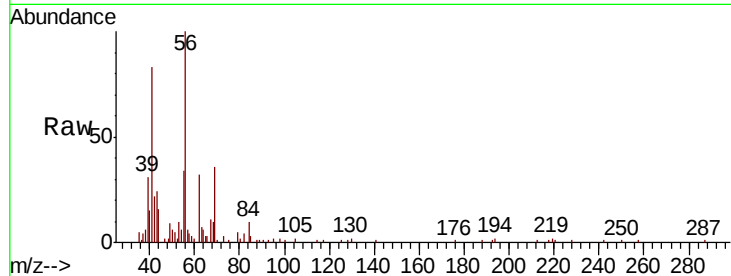




#37
 1,2-Dichloroethane
 Concen: 0.039 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. -0.01 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

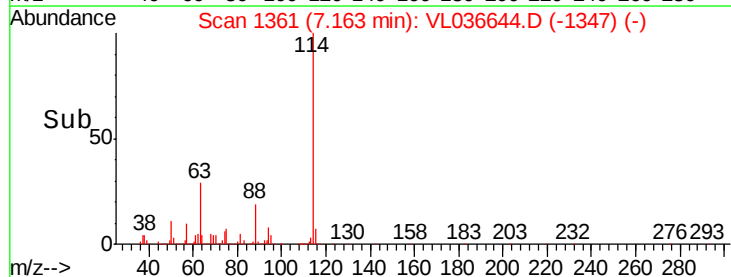
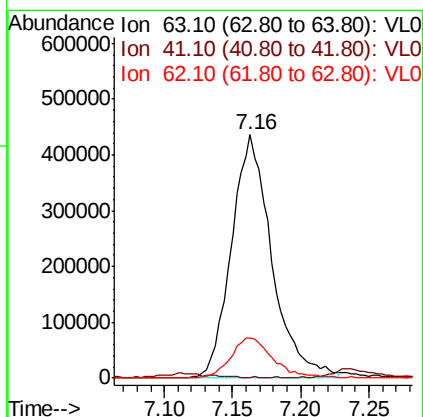
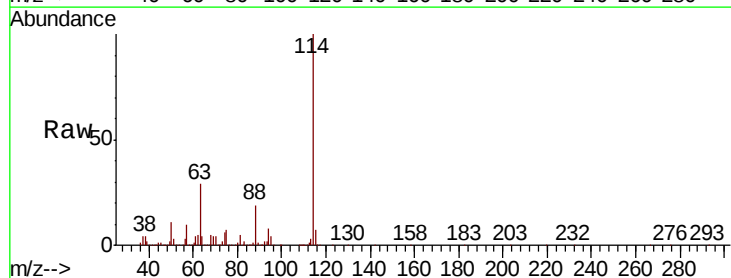
Instrument :
 MSVOA_L
 ClientSampleId :

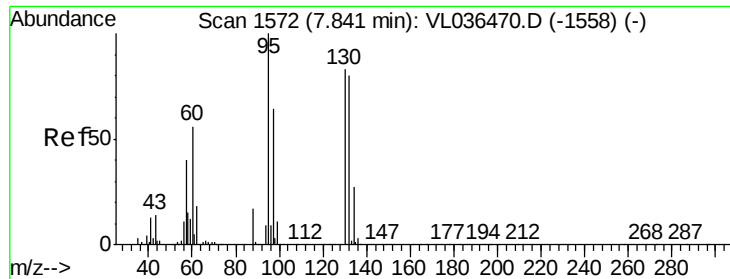
Tot Ion: 62 Resp: 7225
 Ion Ratio Lower Upper
 62 100
 98 12.2 4.9 7.3#



#39
 1,2-Dichloropropane
 Concen: 7.007 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.46 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

Tgt Ion: 63 Resp: 896596
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 16.4 52.8 79.2#

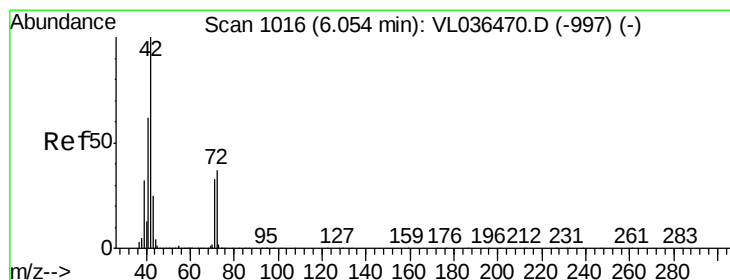
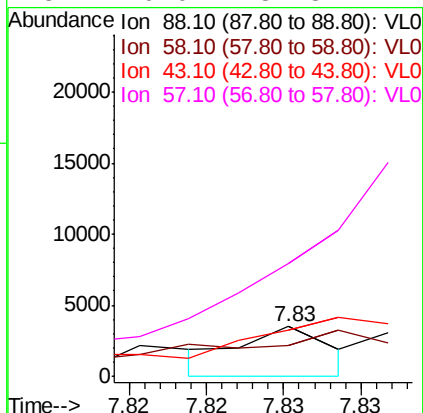
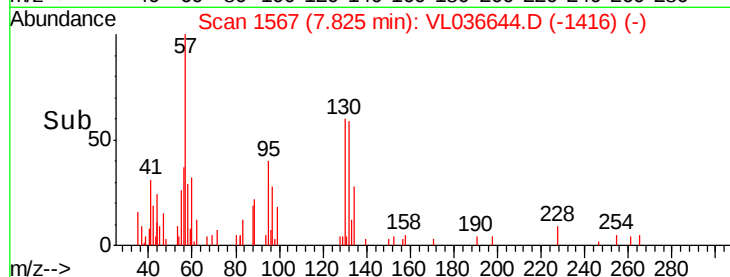
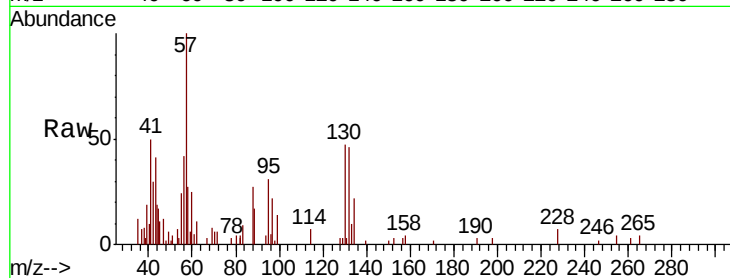




#40
1,4-Dioxane
Concen: 0.047 ppbv
RT: 7.83 min Scan# 1567
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

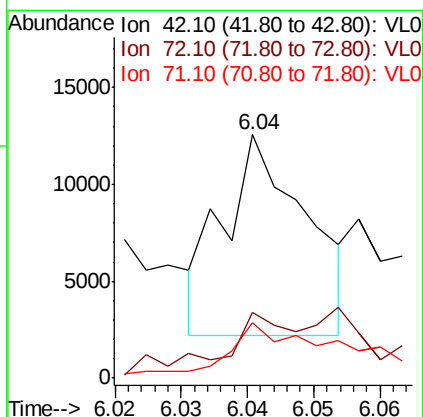
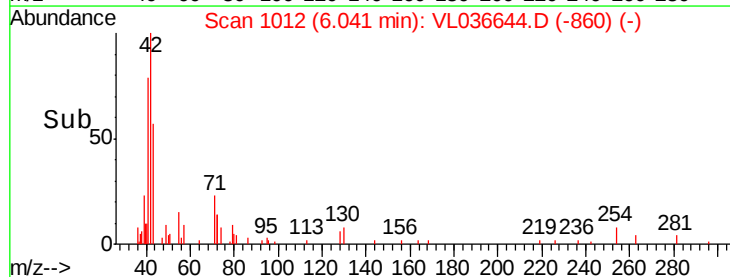
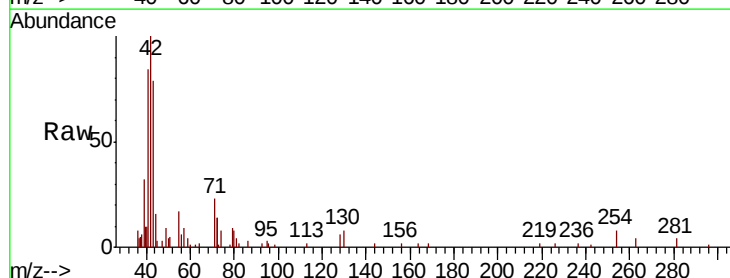
Instrument :
MSVOA_L
ClientSampled :

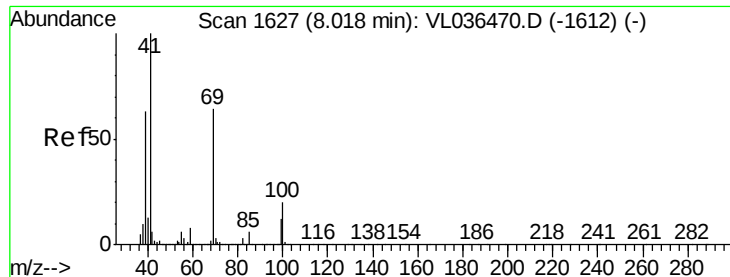
Tot Ion: 88 Resp: 1410
Ion Ratio Lower Upper
88 100
58 0.0 134.1 201.1#
43 0.0 346.6 520.0#
57 0.0 1481.8 2222.8#



#41
Tetrahydrofuran
Concen: 0.117 ppbv
RT: 6.04 min Scan# 1012
Delta R.T. -0.01 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 42 Resp: 9016
Ion Ratio Lower Upper
42 100
72 79.1 27.6 41.4#
71 54.7 27.0 40.4#

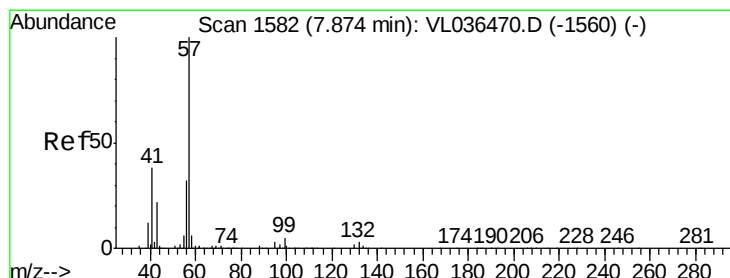
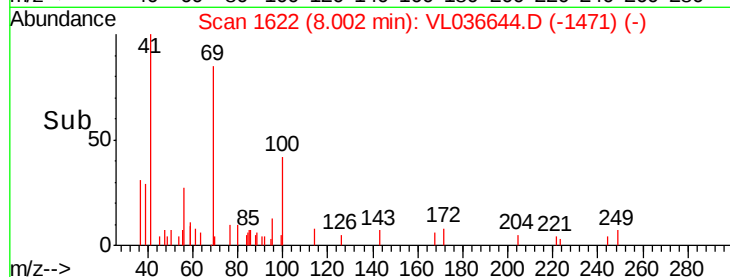
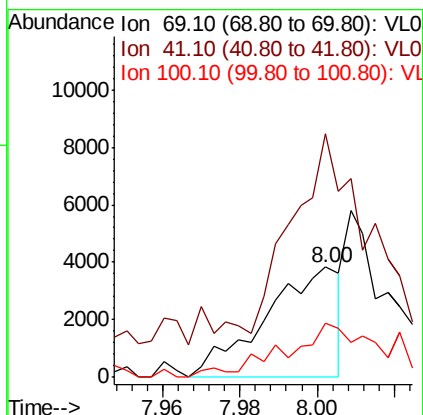
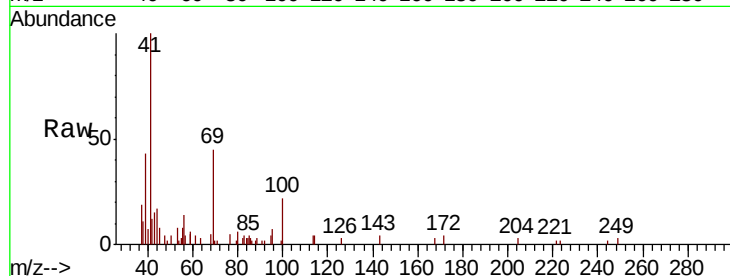




#43
Methyl Methacrylate
Concen: 0.048 ppbv
RT: 8.00 min Scan# 1622
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

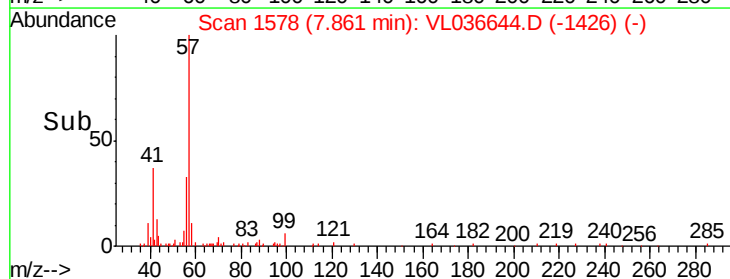
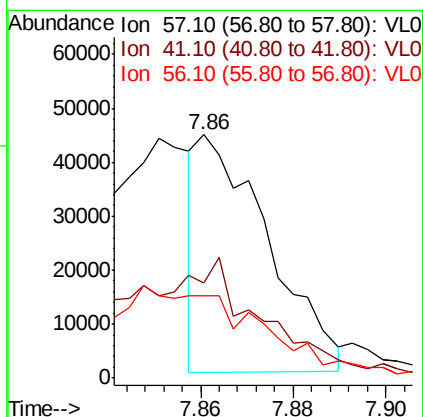
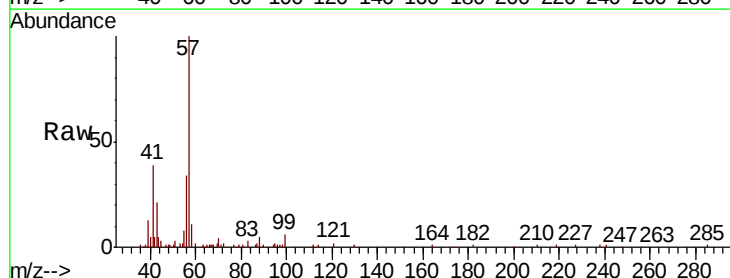
Instrument :
MSVOA_L
ClientSampled :

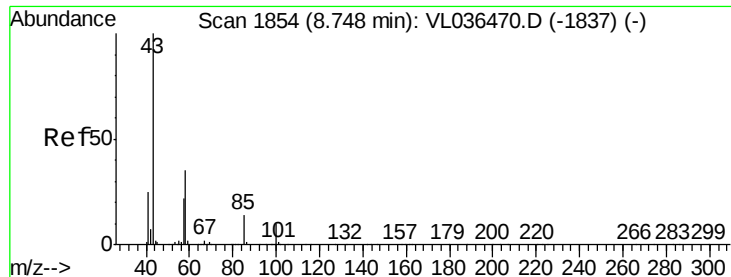
Tot Ion: 69 Resp: 5128
Ion Ratio Lower Upper
69 100
41 365.9 126.8 190.2#
100 69.3 24.9 37.3#



#44
2,2,4-Trimethylpentane
Concen: 0.083 ppbv
RT: 7.86 min Scan# 1578
Delta R.T. -0.01 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 57 Resp: 46279
Ion Ratio Lower Upper
57 100
41 108.5 28.8 43.2#
56 0.0 26.1 39.1#

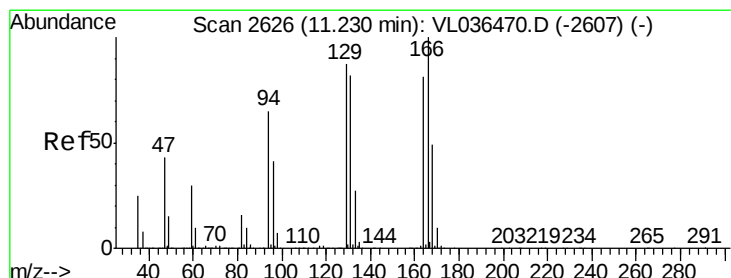
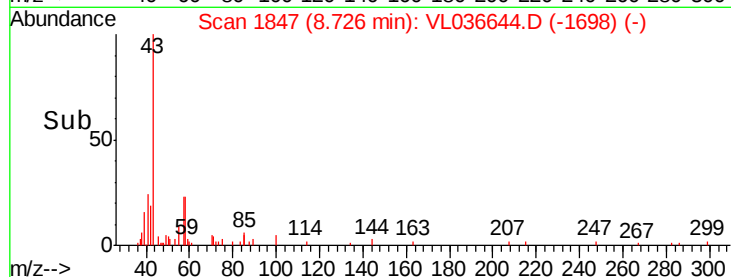
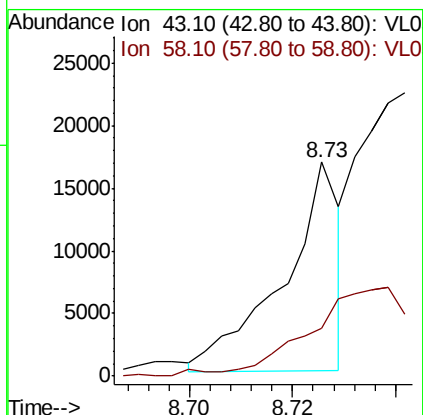
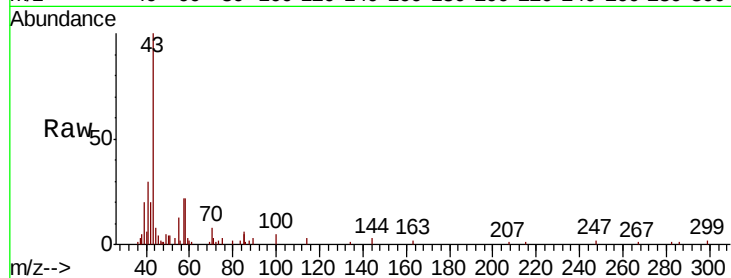




#50
4-Methyl-2-Pentanone
Concen: 0.053 ppbv
RT: 8.73 min Scan# 1847
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

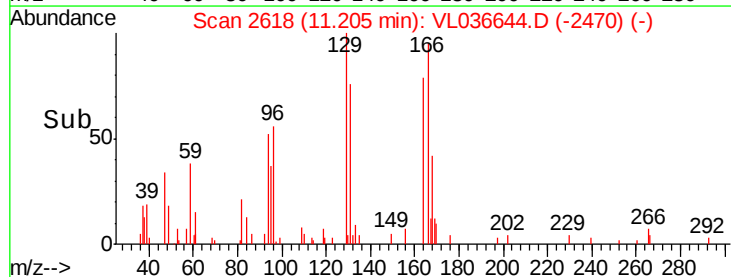
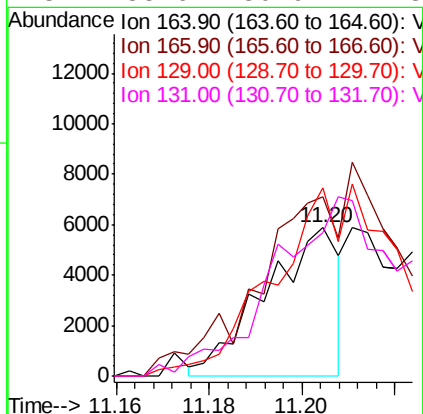
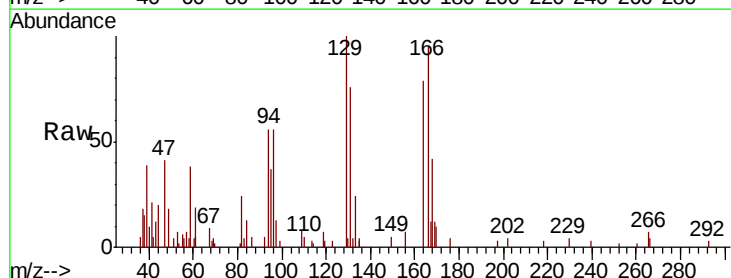
Instrument :
MSVOA_L
ClientSampled :

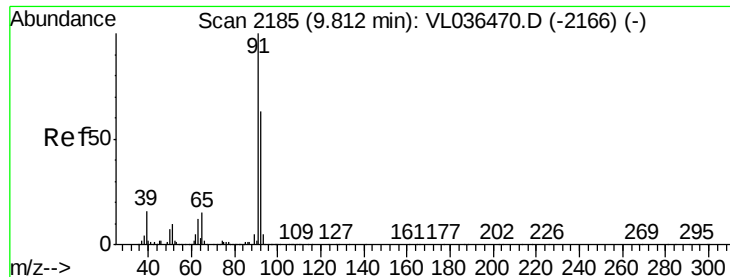
Tot Ion: 43 Resp: 12734
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.2#



#52
Tetrachloroethene
Concen: 0.056 ppbv
RT: 11.20 min Scan# 2618
Delta R.T. -0.03 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 164 Resp: 6472
Ion Ratio Lower Upper
164 100
166 113.5 98.3 147.5
129 127.7 85.8 128.8
131 88.6 80.9 121.3





#53

Toluene

Concen: 1.107 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

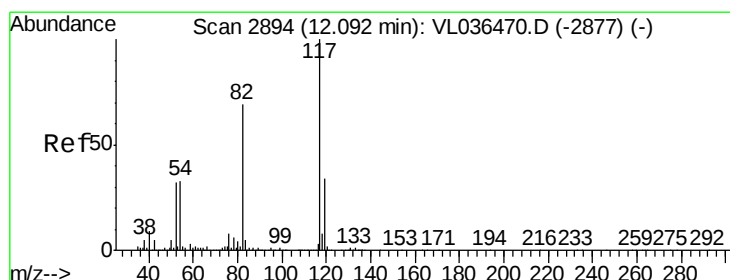
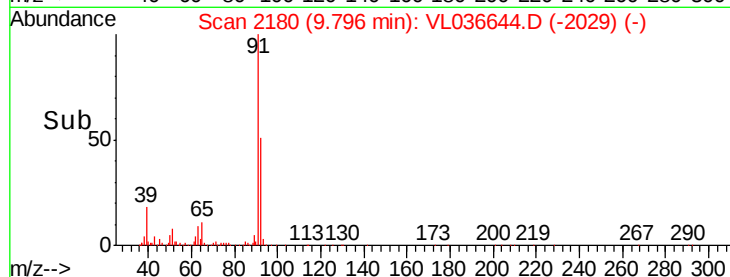
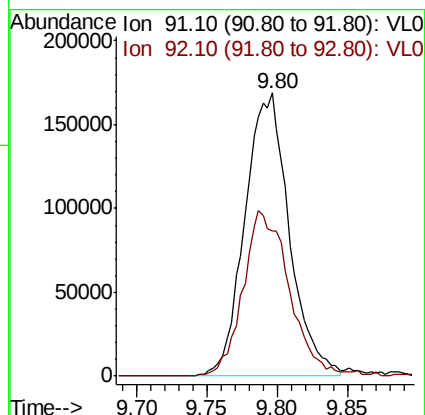
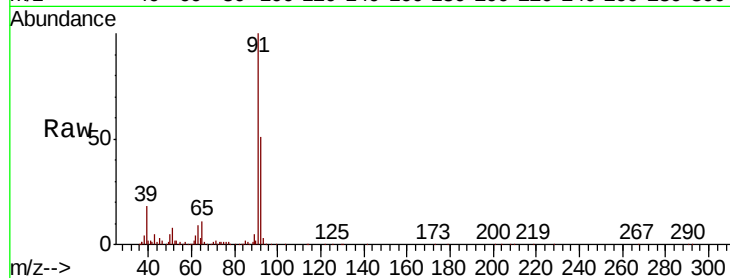
ClientSampleId :

Tot Ion: 91 Resp: 371796

Ion Ratio Lower Upper

91 100

92 61.5 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

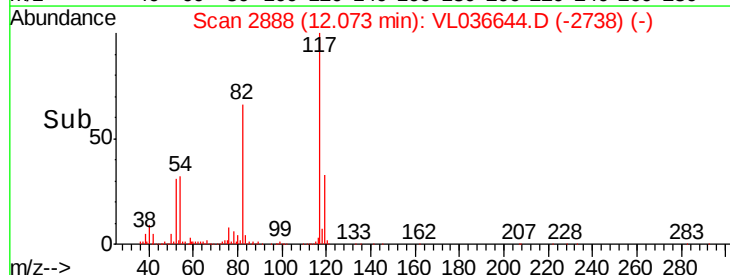
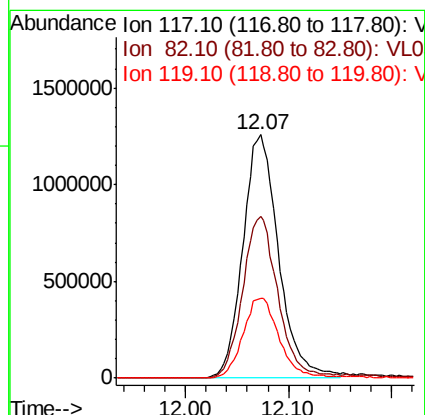
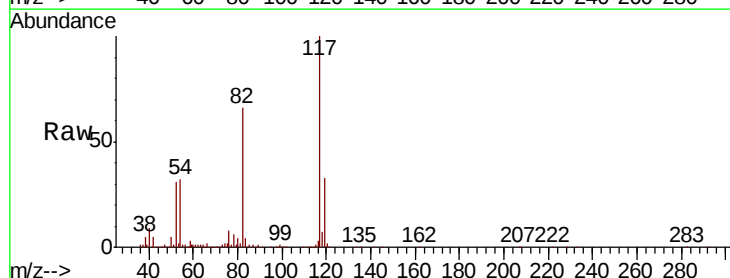
Tgt Ion: 117 Resp: 3034929

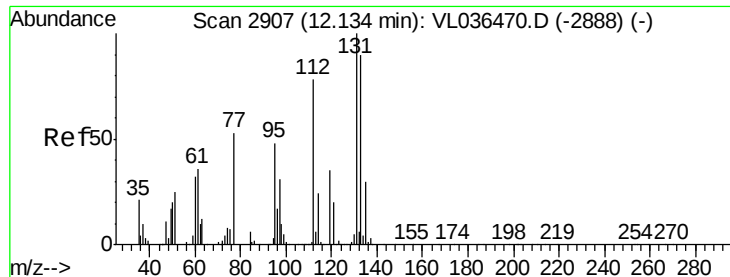
Ion Ratio Lower Upper

117 100

82 67.7 57.4 86.0

119 33.9 47.4 71.0#

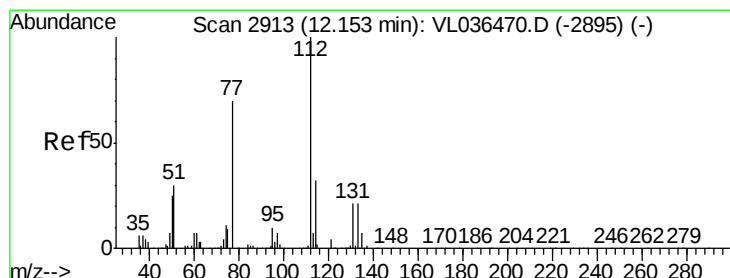
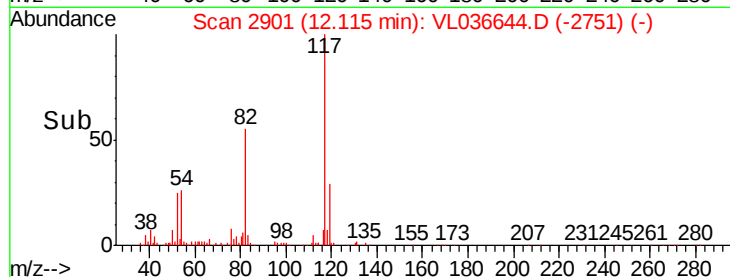
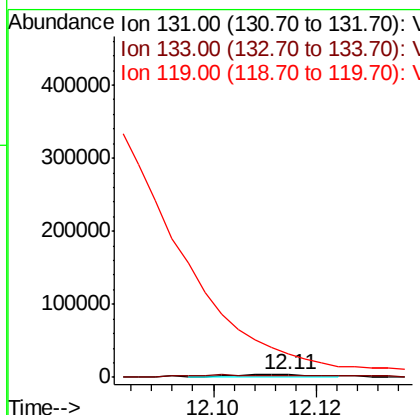
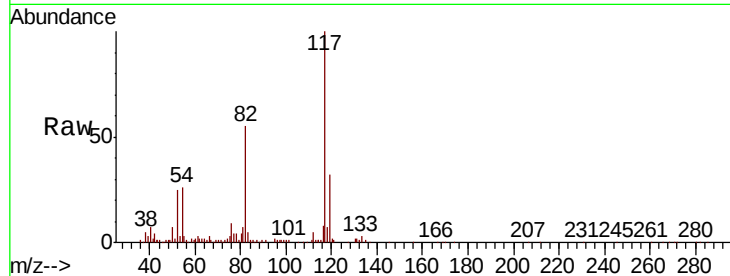




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.033 ppbv
 RT: 12.11 min Scan# 2901
 Delta R.T. -0.02 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

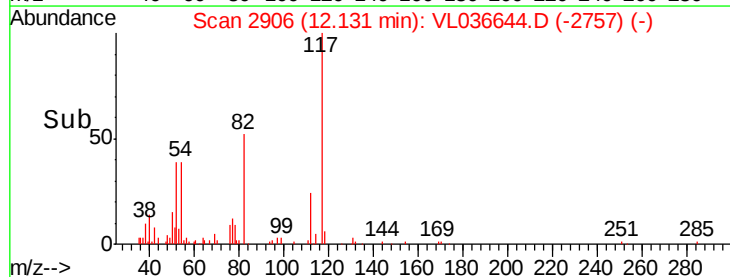
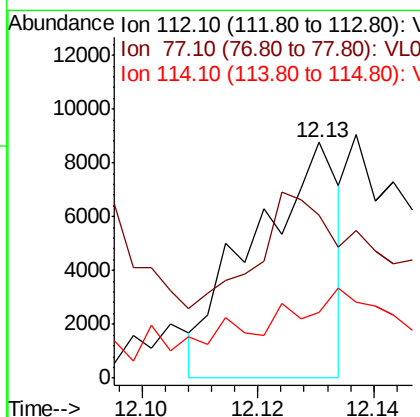
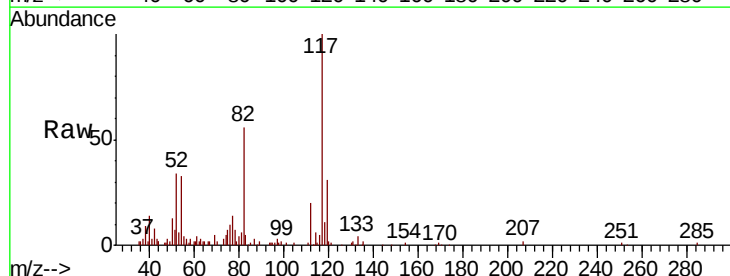
Instrument :
 MSVOA_L
 ClientSampleId :

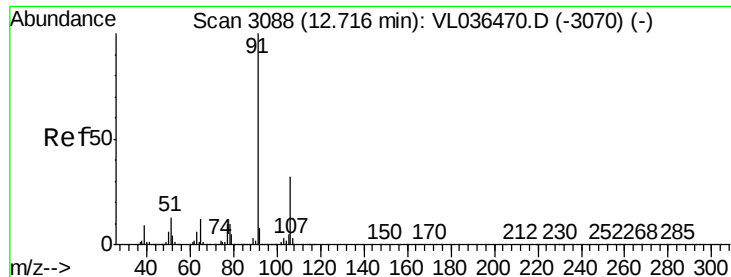
Tot Ion:131 Resp: 4575
 Ion Ratio Lower Upper
 131 100
 133 0.0 75.8 113.6#
 119 0.0 48.7 73.1#



#57
 Chlorobenzene
 Concen: 0.035 ppbv
 RT: 12.13 min Scan# 2906
 Delta R.T. -0.02 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

Tgt Ion:112 Resp: 8939
 Ion Ratio Lower Upper
 112 100
 77 49.2 56.0 84.0#
 114 12.6 29.0 35.4#





#58

Ethyl Benzene

Concen: 0.172 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

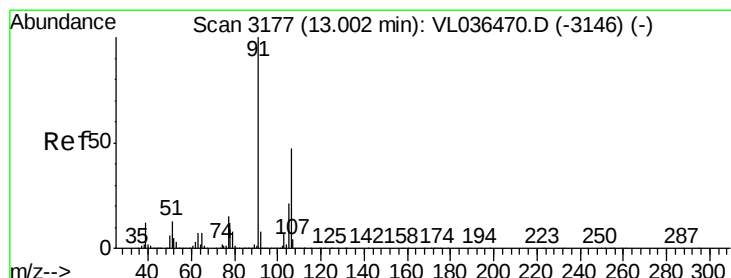
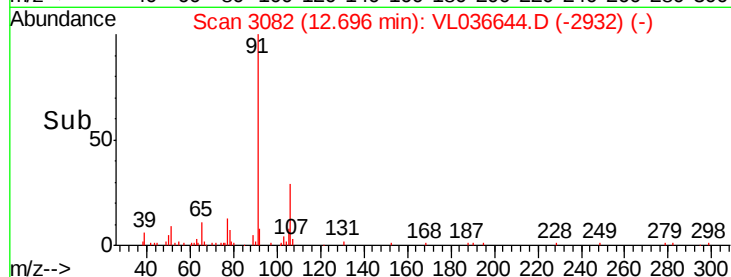
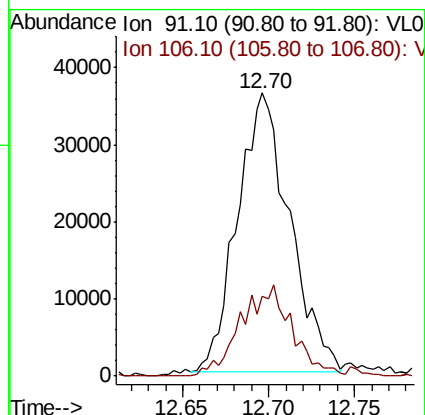
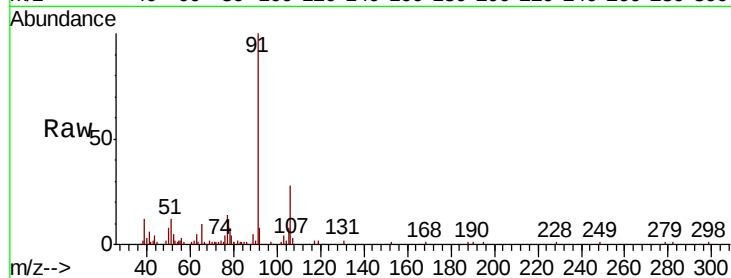
ClientSampleId :

Tot Ion: 91 Resp: 76065

Ion Ratio Lower Upper

91 100

106 28.9 25.3 37.9



#59

m/p-Xylene

Concen: 0.121 ppbv

RT: 12.98 min Scan# 3171

Delta R.T. -0.02 min

Lab File: VL036644.D

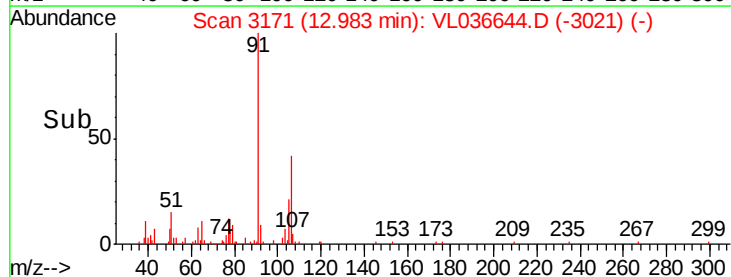
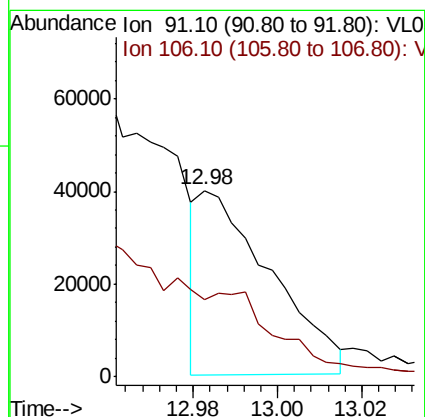
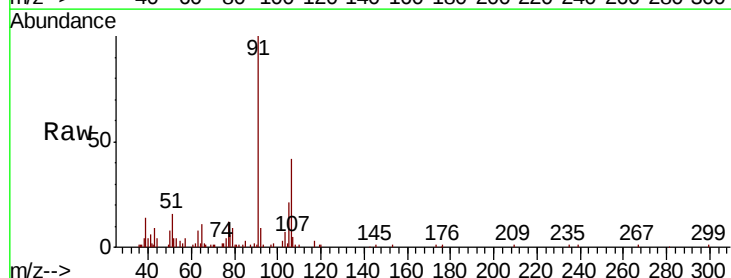
Acq: 2 Apr 2021 14:26

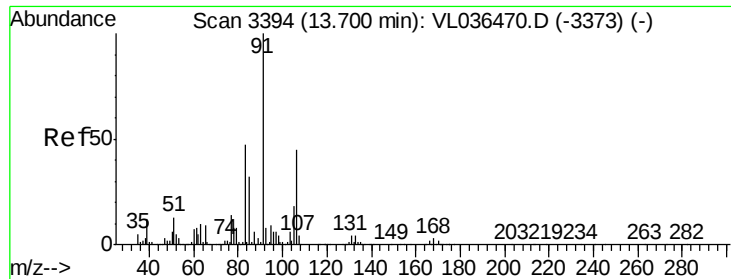
Tgt Ion: 91 Resp: 46745

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

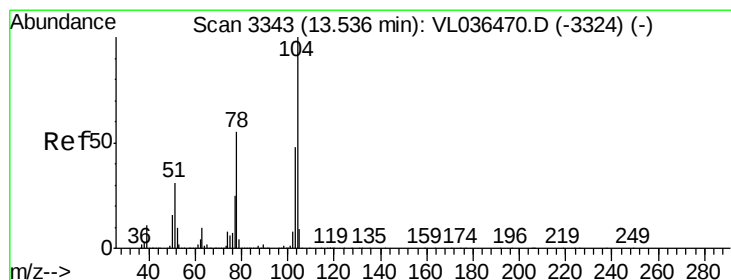
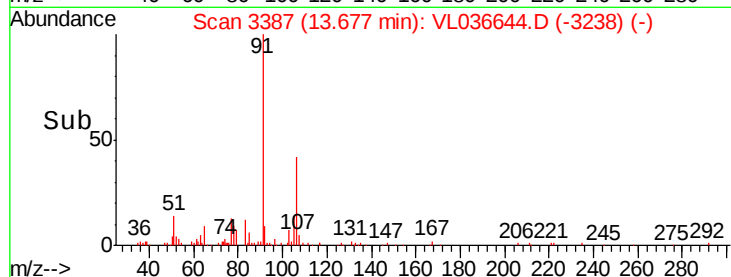
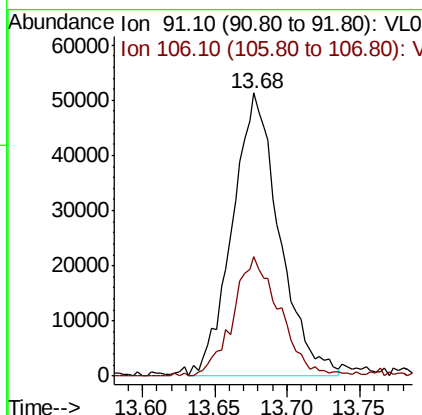
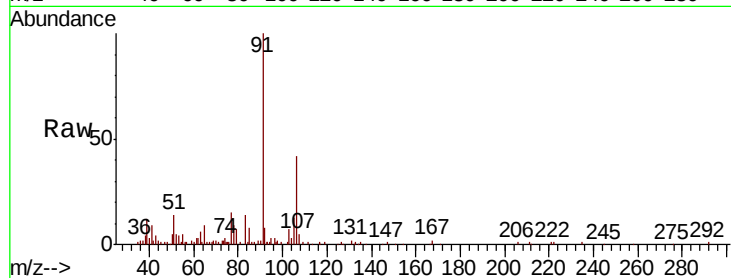




#60
o-Xylene
Concen: 0.308 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

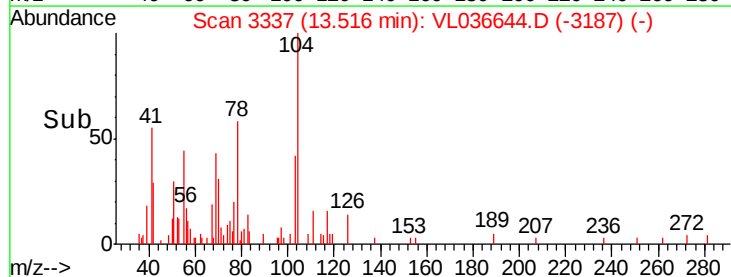
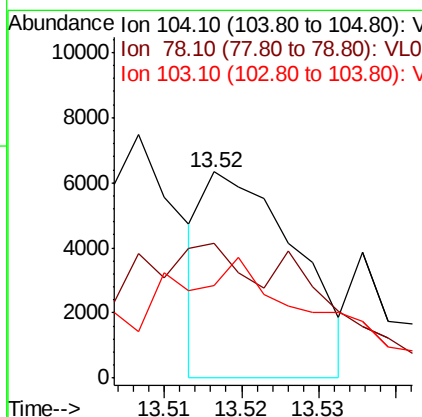
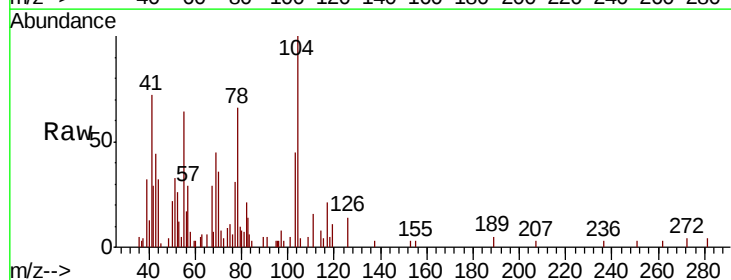
Instrument :
MSVOA_L
ClientSampled :

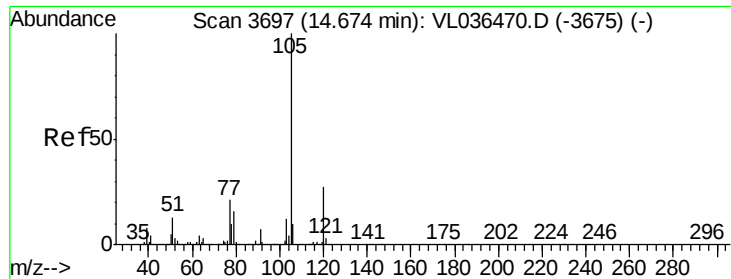
Tot Ion: 91 Resp: 114876
Ion Ratio Lower Upper
91 100
106 42.3 22.3 66.9



#61
Styrene
Concen: 0.028 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 104 Resp: 5260
Ion Ratio Lower Upper
104 100
78 195.7 43.8 65.8#
103 154.7 38.3 57.5#





#62

Isopropylbenzene

Concen: 0.029 ppbv

RT: 14.65 min Scan# 3691

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

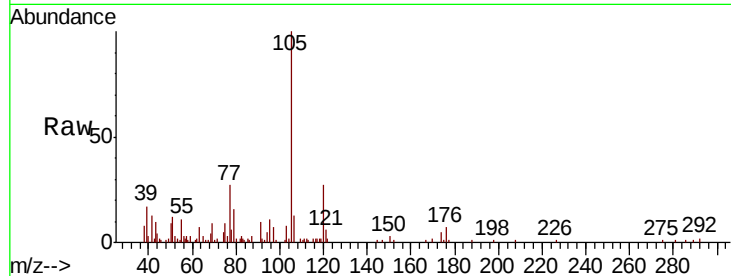
ClientSampleId :

Tot Ion:105 Resp: 14380

Ion Ratio Lower Upper

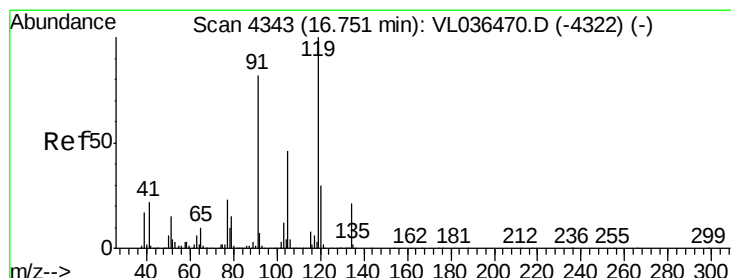
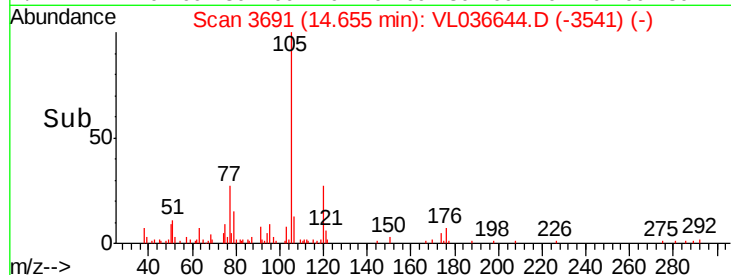
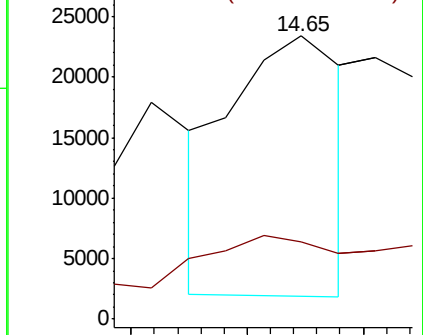
105 100

120 104.3 20.6 31.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#65

tert-Butylbenzene

Concen: 0.388 ppbv

RT: 16.75 min Scan# 4342

Delta R.T. -0.00 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

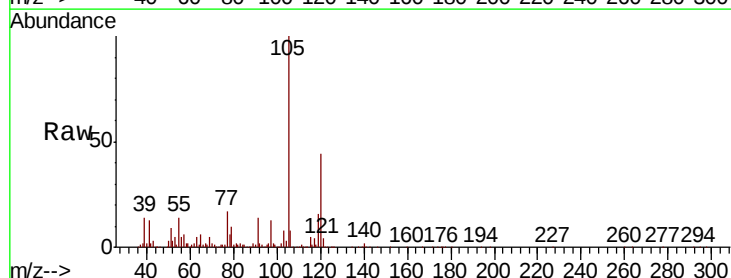
Tgt Ion:119 Resp: 168777

Ion Ratio Lower Upper

119 100

91 97.0 67.5 101.3

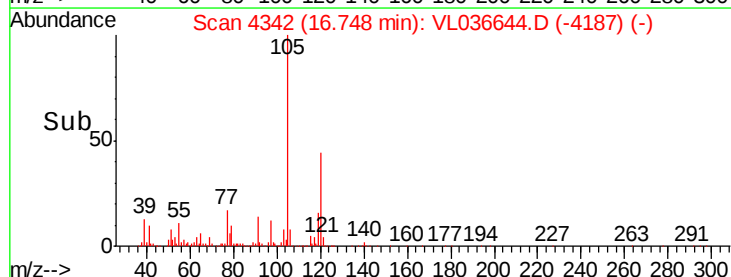
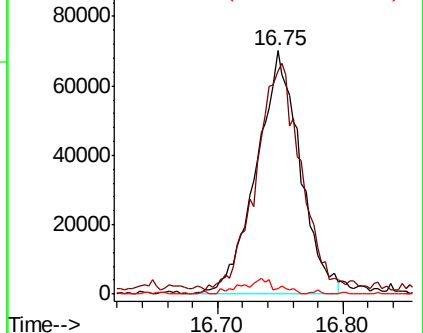
134 5.8 15.8 23.8#

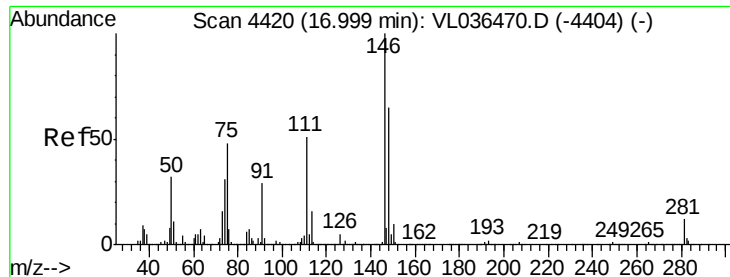


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 134.20 (133.90 to 134.90): V

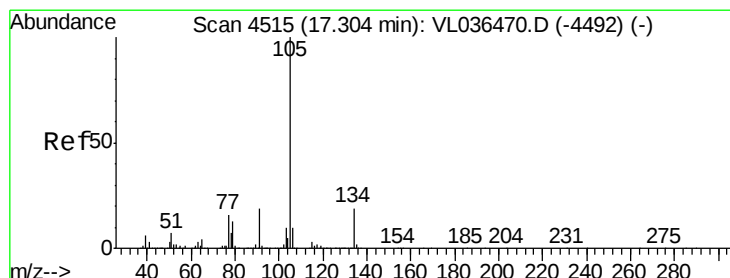
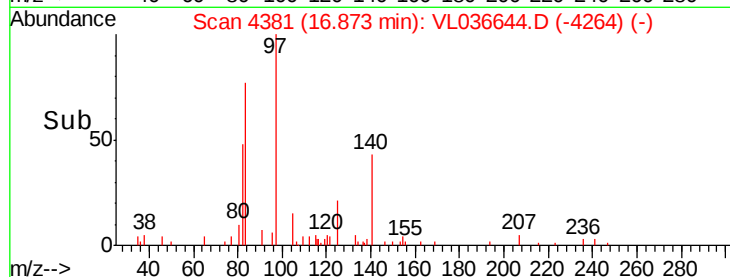
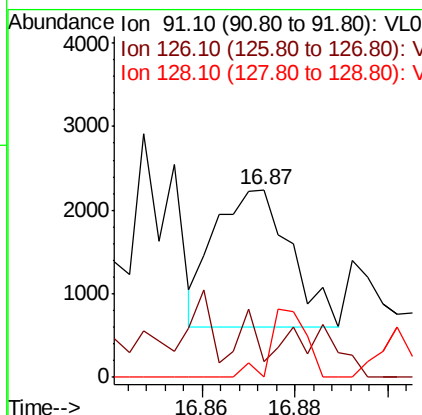
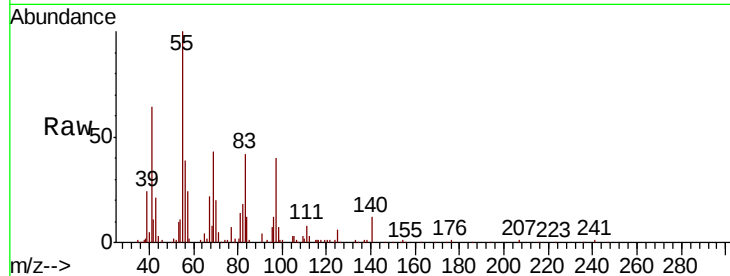




#66
Benzyl Chloride
Concen: 0.039 ppbv
RT: 16.87 min Scan# 4381
Delta R.T. -0.13 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

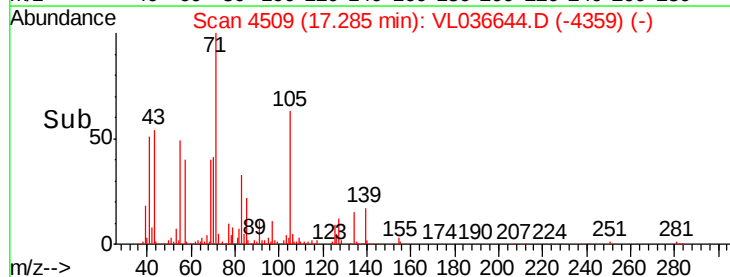
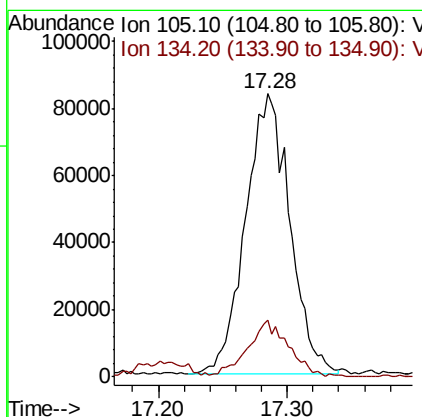
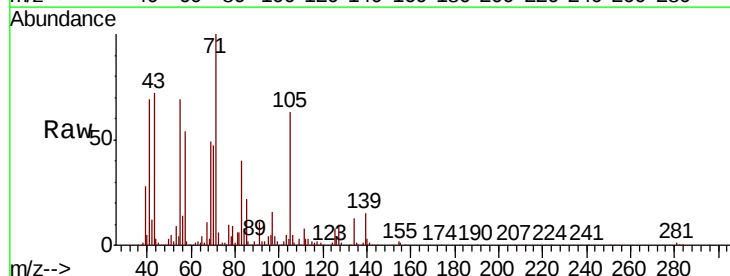
Instrument :
MSVOA_L
ClientSampleId :

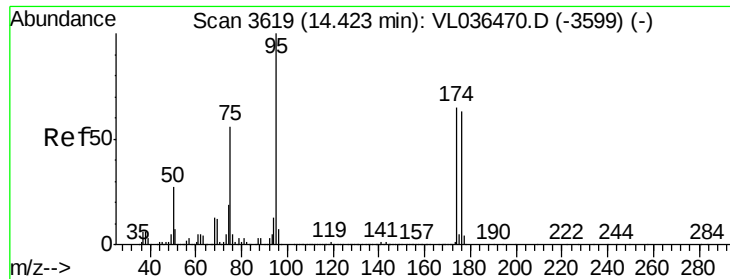
Tot Ion: 91 Resp: 1873
Ion Ratio Lower Upper
91 100
126 83.3 13.5 20.3#
128 25.3 4.2 6.4#



#67
sec-Butylbenzene
Concen: 0.326 ppbv
RT: 17.28 min Scan# 4509
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 105 Resp: 199935
Ion Ratio Lower Upper
105 100
134 18.6 14.7 22.1

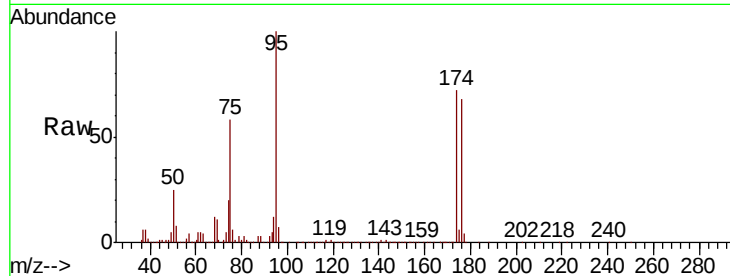




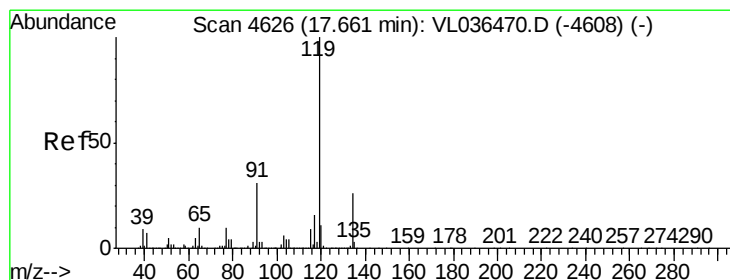
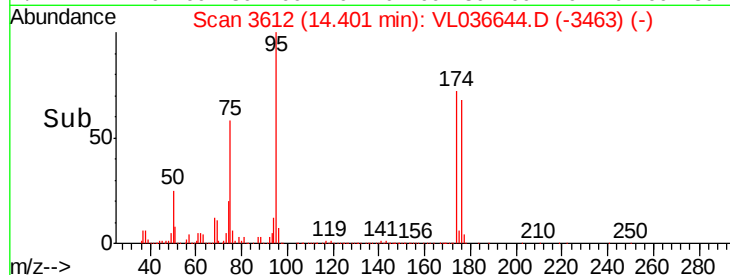
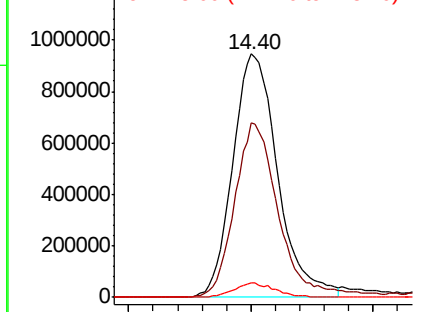
#68
1-Bromo-4-Fluorobenzene
Concen: 9.943 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 95 Resp: 2405091
Ion Ratio Lower Upper
95 100
174 72.9 51.0 76.6
175 5.6 3.9 5.9

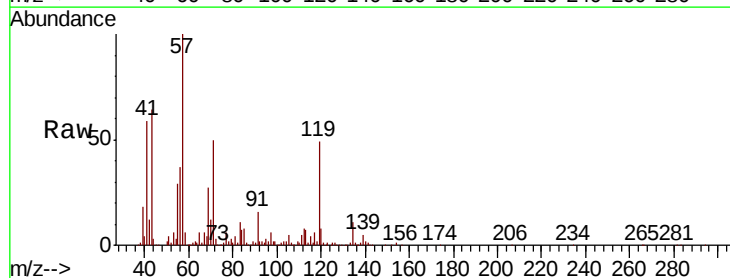


Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

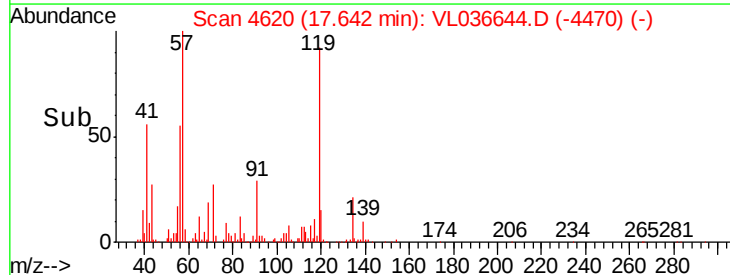
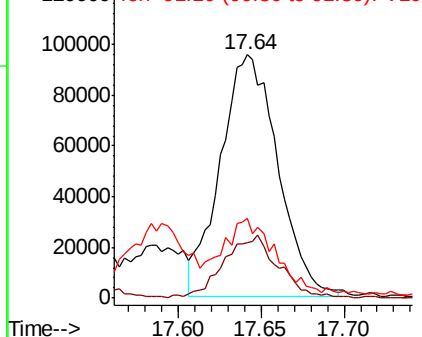


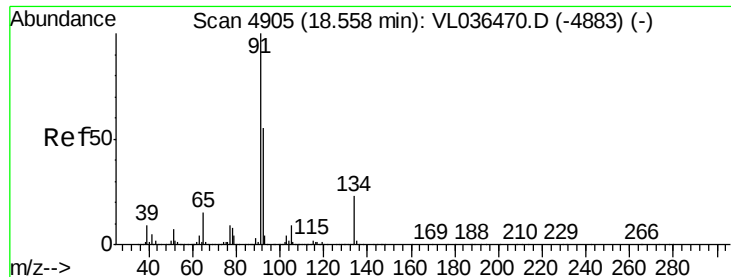
#69
p-Isopropyltoluene
Concen: 0.480 ppbv
RT: 17.64 min Scan# 4620
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 119 Resp: 230281
Ion Ratio Lower Upper
119 100
134 24.9 20.6 30.8
91 29.3 25.0 37.6



Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): VL0

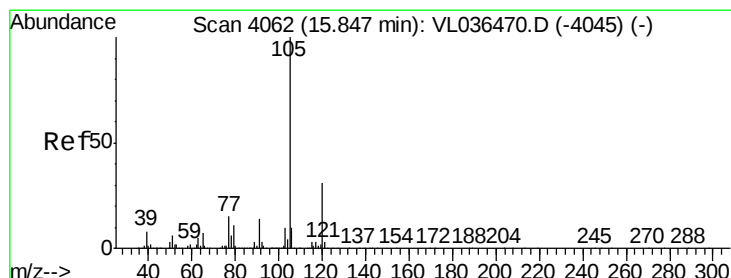
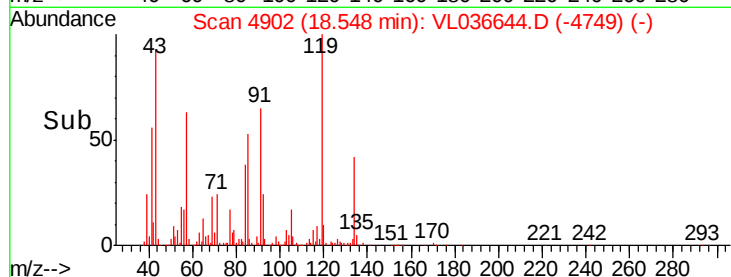
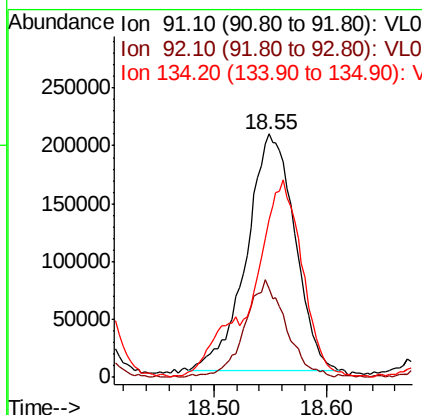
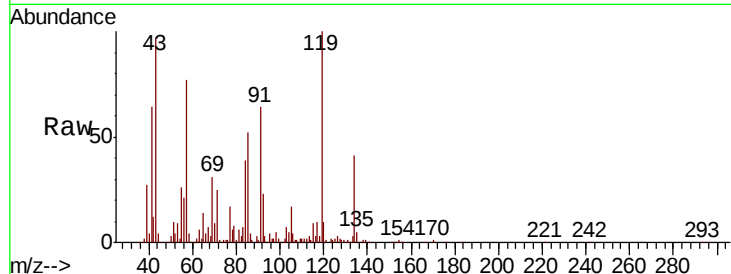




#70
n-Butylbenzene
Concen: 1.219 ppbv
RT: 18.55 min Scan# 4902
Delta R.T. -0.01 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

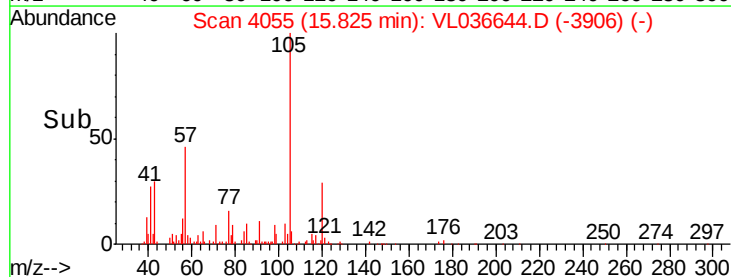
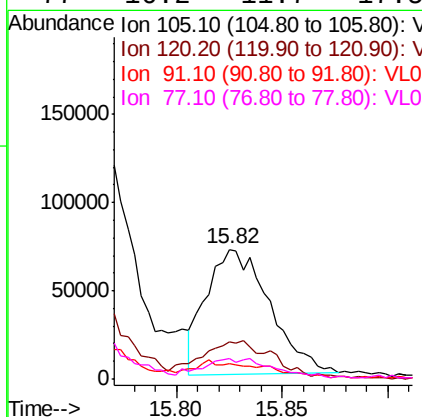
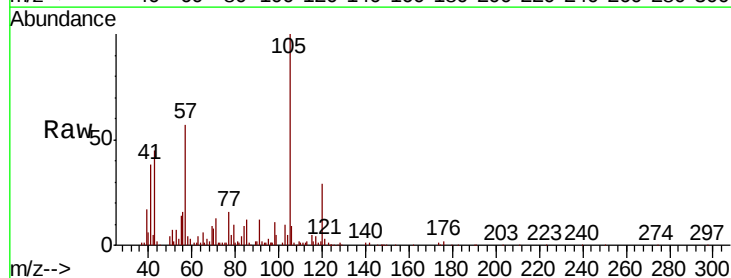
Instrument :
MSVOA_L
ClientSampleId :

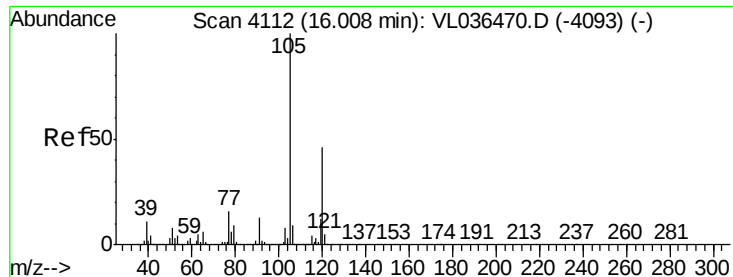
Tot Ion: 91 Resp: 606036
Ion Ratio Lower Upper
91 100
92 35.0 43.8 65.8#
134 87.6 18.0 27.0#



#72
4-Ethyltoluene
Concen: 0.358 ppbv
RT: 15.82 min Scan# 4055
Delta R.T. -0.02 min
Lab File: VL036644.D
Acq: 2 Apr 2021 14:26

Tgt Ion: 105 Resp: 146263
Ion Ratio Lower Upper
105 100
120 37.4 24.0 36.0#
91 17.0 11.0 16.4#
77 16.2 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 0.914 ppbv

RT: 15.99 min Scan# 4106

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

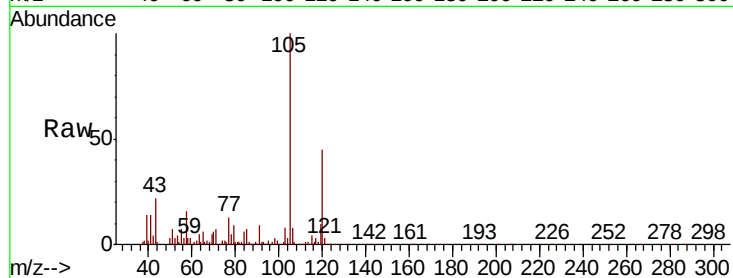
ClientSampleId :

Tot Ion:105 Resp: 348033

Ion Ratio Lower Upper

105 100

120 45.5 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.99

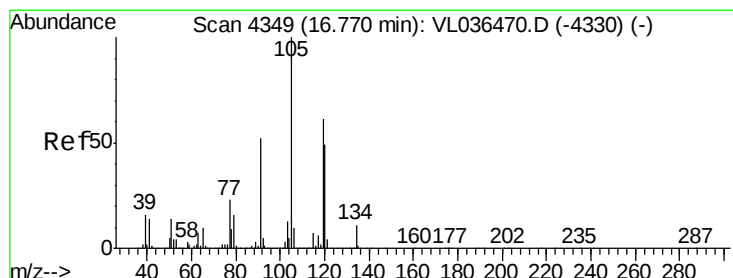
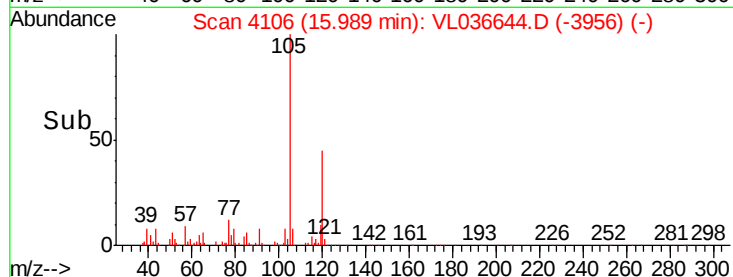
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.806 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Tgt Ion:105 Resp: 1143489

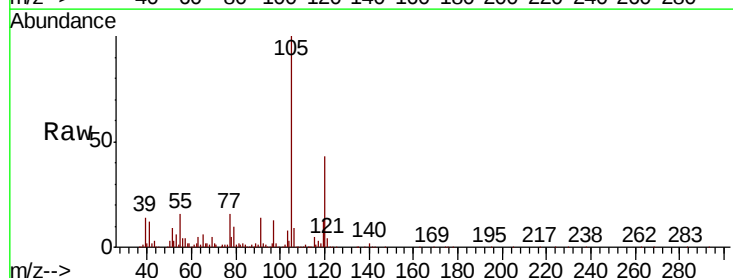
Ion Ratio Lower Upper

105 100

120 43.0 39.2 58.8

91 13.7 42.6 64.0#

77 15.2 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

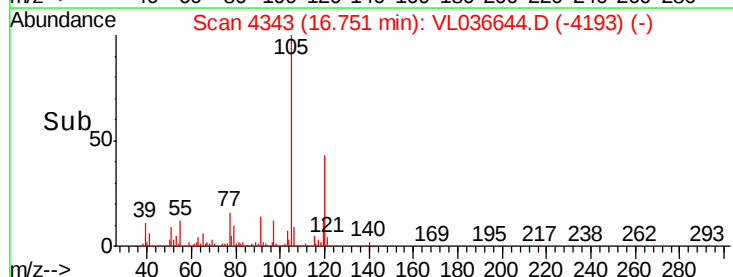
600000

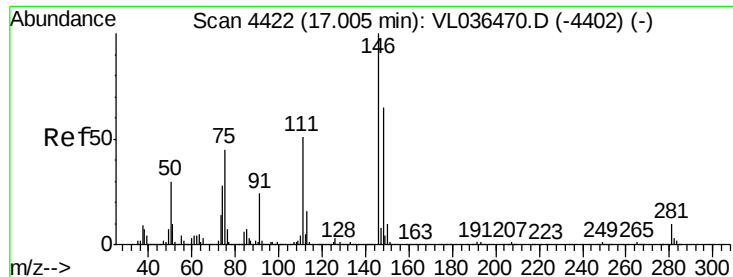
400000

200000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 0.041 ppbv

RT: 16.98 min Scan# 4415

Delta R.T. -0.02 min

Lab File: VL036644.D

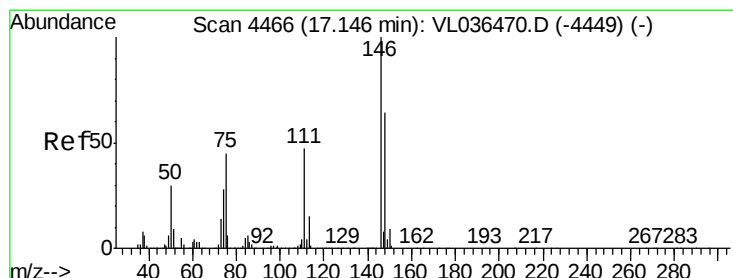
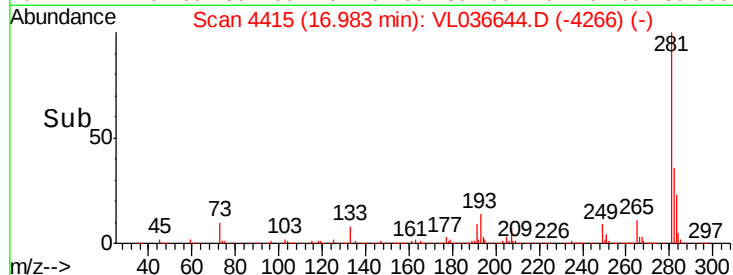
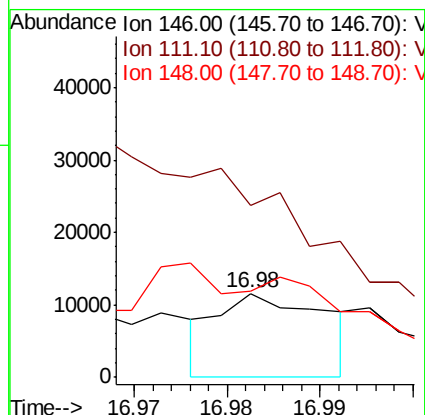
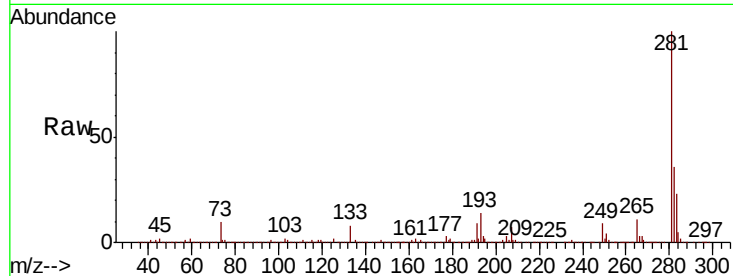
Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.5	73.5#
148	0.0	32.3	96.9#



#76

1,4-Dichlorobenzene

Concen: 0.030 ppbv

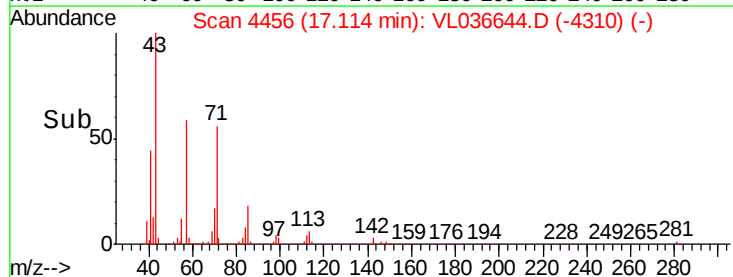
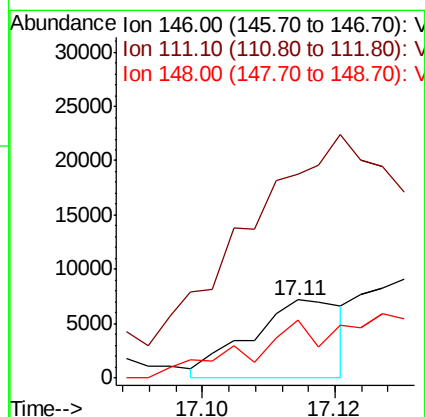
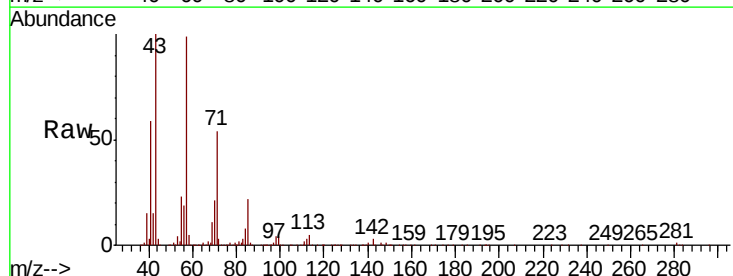
RT: 17.11 min Scan# 4456

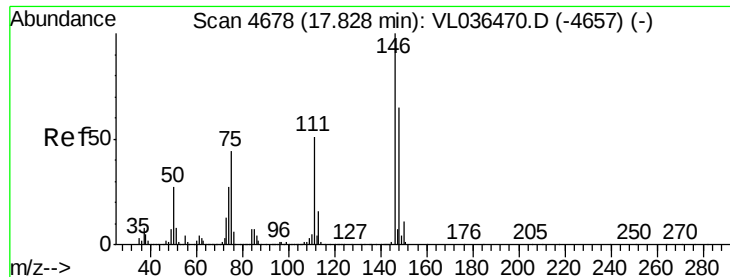
Delta R.T. -0.03 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	740.7	24.3	72.8#
148	0.0	33.0	98.9#





#77

1,2-Dichlorobenzene

Concen: 0.049 ppbv

RT: 17.80 min Scan# 4670

Delta R.T. -0.03 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

ClientSampleId :

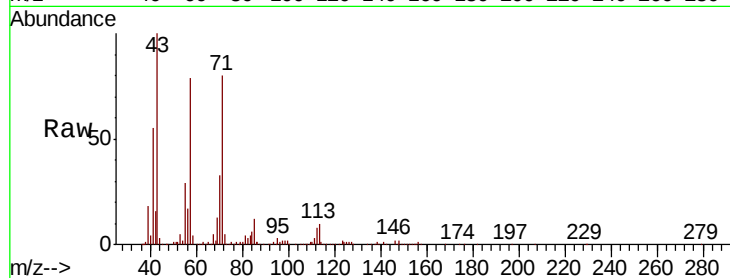
Tot Ion:146 Resp: 10478

Ion Ratio Lower Upper

146 100

111 0.0 25.5 76.5#

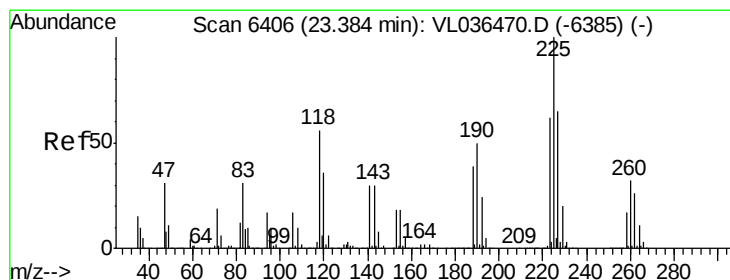
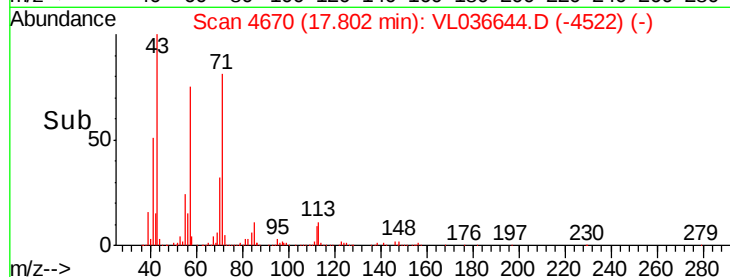
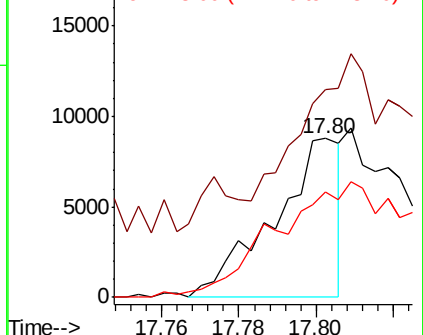
148 0.0 32.9 98.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.022 ppbv

RT: 23.33 min Scan# 6389

Delta R.T. -0.05 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

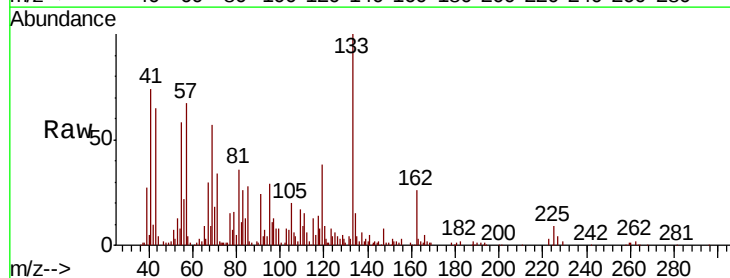
Tgt Ion:225 Resp: 4314

Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

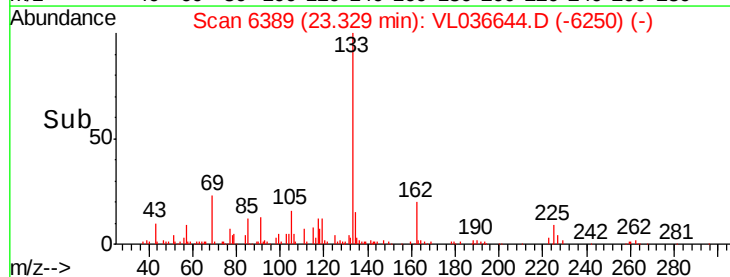
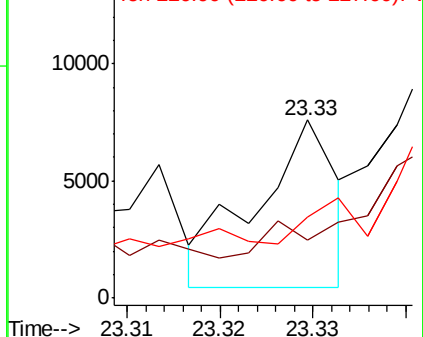
227 0.0 52.2 78.2#

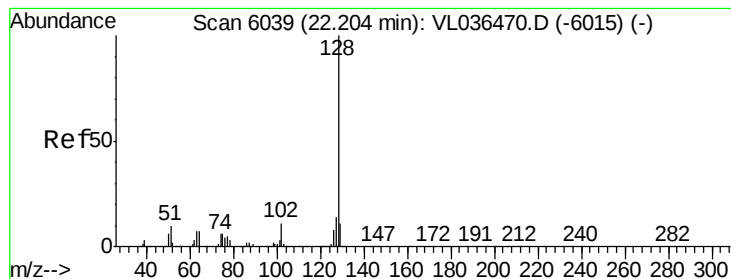


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 1.047 ppbv

RT: 22.19 min Scan# 6034

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

Instrument :

MSVOA_L

ClientSampleId :

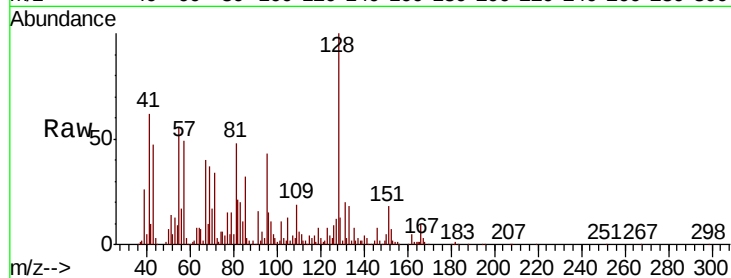
Tot Ion:128 Resp: 249056

Ion Ratio Lower Upper

128 100

127 11.2 10.9 16.3

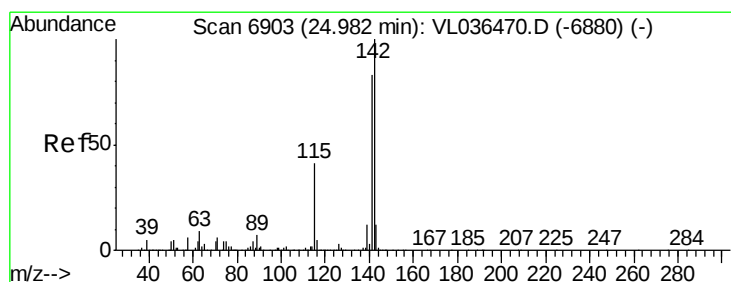
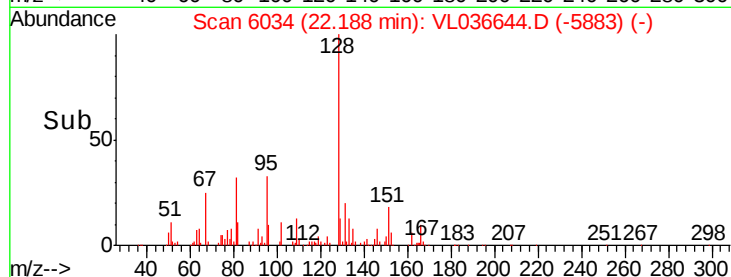
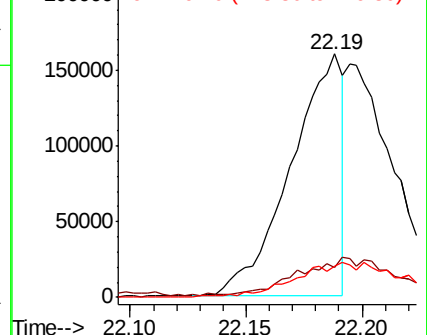
129 12.4 9.0 13.4



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: 4.344 ppbv

RT: 24.96 min Scan# 6896

Delta R.T. -0.02 min

Lab File: VL036644.D

Acq: 2 Apr 2021 14:26

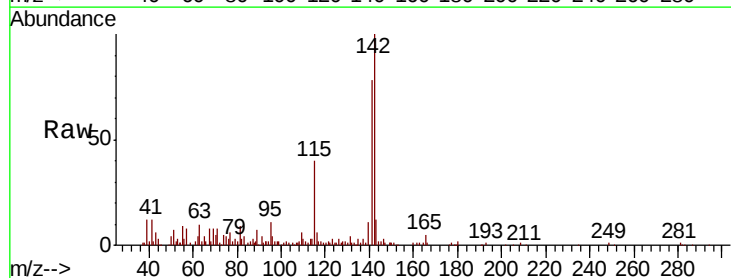
Tgt Ion:142 Resp: 203703

Ion Ratio Lower Upper

142 100

141 81.8 67.8 101.8

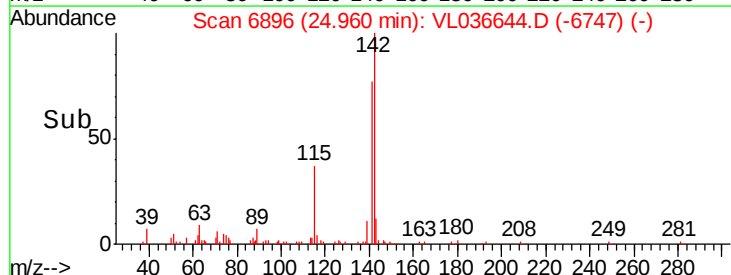
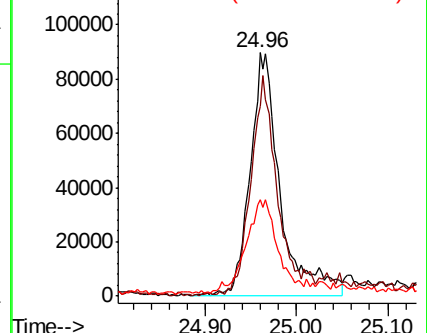
115 43.8 34.0 51.0

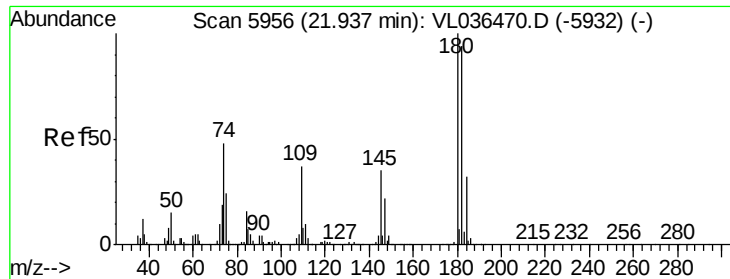


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

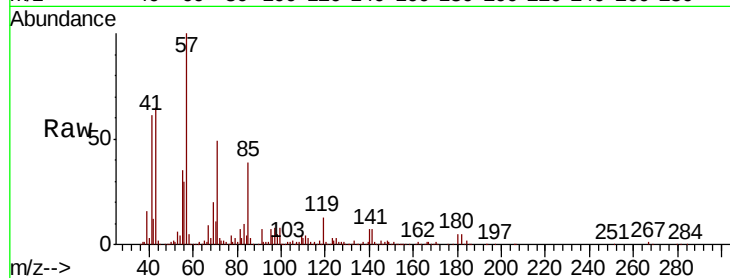




#81
 1,2,4-Trichlorobenzene
 Concen: 0.173 ppbv
 RT: 21.92 min Scan# 5950
 Delta R.T. -0.02 min
 Lab File: VL036644.D
 Acq: 2 Apr 2021 14:26

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 25401
 Ion Ratio Lower Upper
 180 100
 182 201.9 80.8 121.2#
 184 0.0 25.0 37.4#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

