

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036661.D
 Acq On : 3 Apr 2021 1:29
 Operator : SY/AP
 Sample : M1853-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 03 02:59:54 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	5.64	49	1309116	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3398286	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3066224	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2503140	10.24	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

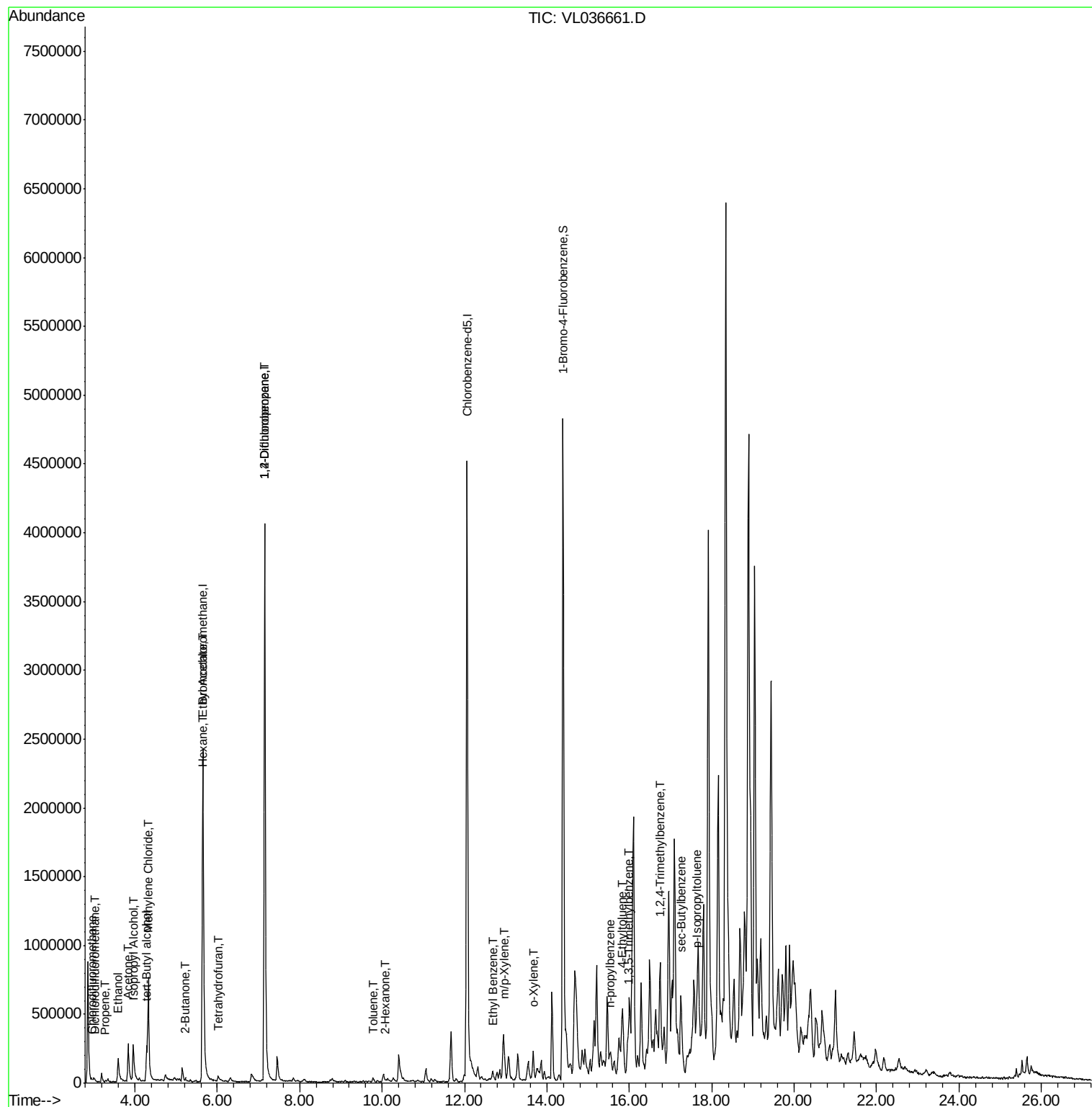
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	5365	0.025	ppbv	98
3) Chlorodifluoromethane	2.96	51	34202	0.140	ppbv #	78
9) Propene	3.28	41	2074	0.027	ppbv	86
13) Ethanol	3.59	45	241641	26.024	ppbv	92
15) Acetone	3.83	43	376857	2.925	ppbv	98
17) tert-Butyl alcohol	4.29	59	312817	2.789	ppbv	99
19) Isopropyl Alcohol	3.96	45	385306	5.436	ppbv	100
20) Methylene Chloride	4.32	84	264522	4.385	ppbv	93
25) Ethyl Acetate	5.66	43	158385	0.517	ppbv #	78
26) Hexane	5.66	57	215255	1.514	ppbv #	45
34) 2-Butanone	5.23	43	11828	0.071	ppbv #	18
39) 1,2-Dichloropropane	7.15	63	882825	6.944	ppbv #	23
41) Tetrahydrofuran	6.02	42	7034	0.092	ppbv #	59
51) 2-Hexanone	10.09	43	4202	0.035	ppbv #	30
53) Toluene	9.78	91	10358	0.031	ppbv #	11
58) Ethyl Benzene	12.68	91	33864	0.076	ppbv #	79
59) m/p-Xylene	12.97	91	83734	0.215	ppbv #	32
60) o-Xylene	13.67	91	162534	0.432	ppbv	98
64) n-propylbenzene	15.53	120	2556	0.021	ppbv #	1
67) sec-Butylbenzene	17.27	105	67710	0.109	ppbv #	90
69) p-Isopropyltoluene	17.63	119	61511	0.127	ppbv	98
72) 4-Ethyltoluene	15.82	105	36057	0.087	ppbv #	52
73) 1,3,5-Trimethylbenzene	15.98	105	126251	0.328	ppbv	94
74) 1,2,4-Trimethylbenzene	16.74	105	379724	0.922	ppbv #	68

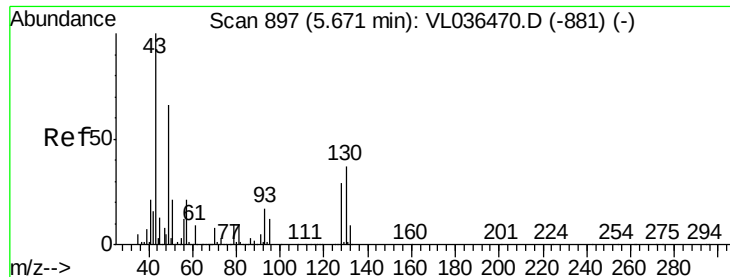
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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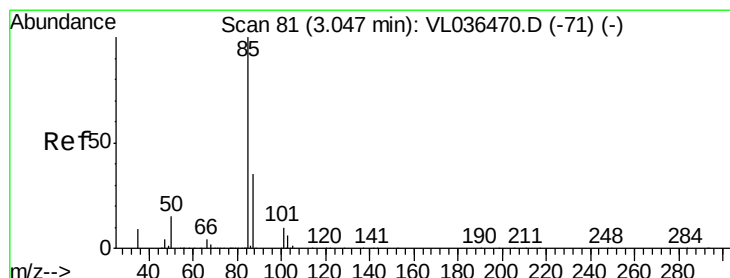
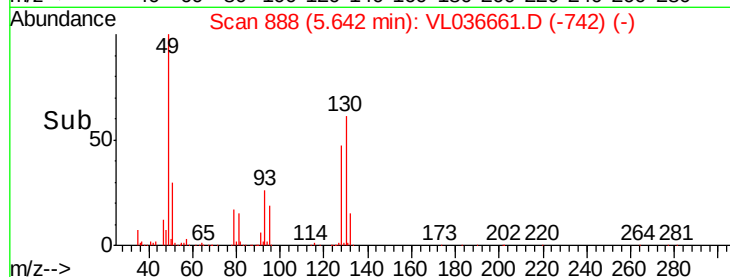
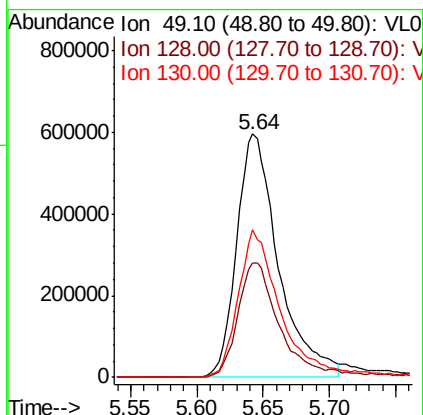
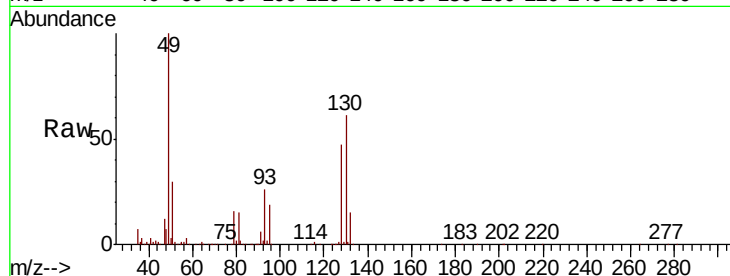




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 888
 Delta R.T. -0.03 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

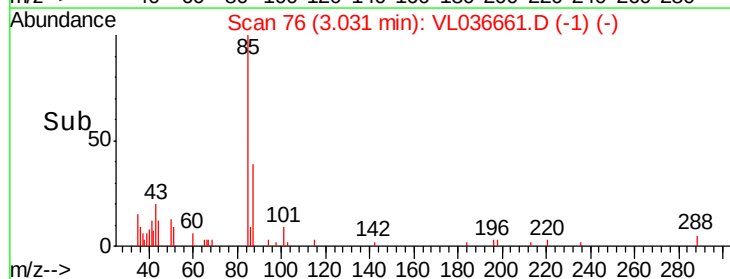
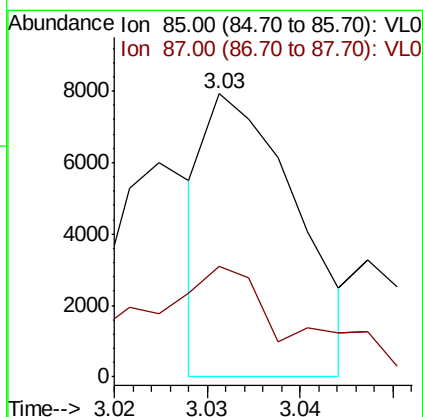
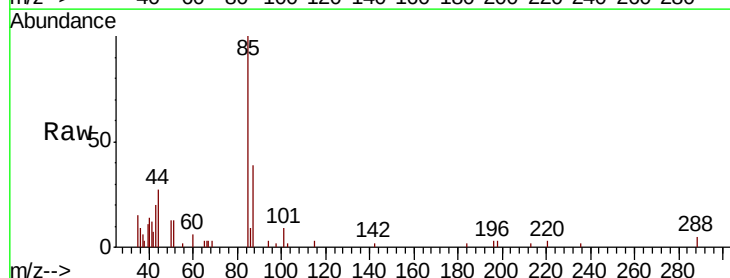
Instrument :
 MSVOA_L
 ClientSampleID :

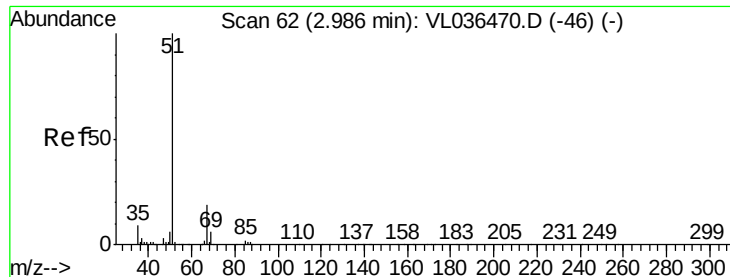
Tot Ion: 49 Resp: 1309116
 Ion Ratio Lower Upper
 49 100
 128 49.2 23.5 70.6
 130 63.1 29.1 87.4



#2
 Dichlorodifluoromethane
 Concen: 0.025 ppbv
 RT: 3.03 min Scan# 76
 Delta R.T. -0.02 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Tgt Ion: 85 Resp: 5365
 Ion Ratio Lower Upper
 85 100
 87 33.8 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.140 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

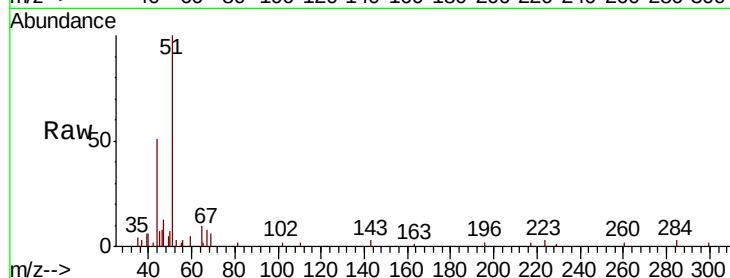
ClientSampleId :

Tot Ion: 51 Resp: 34202

Ion Ratio Lower Upper

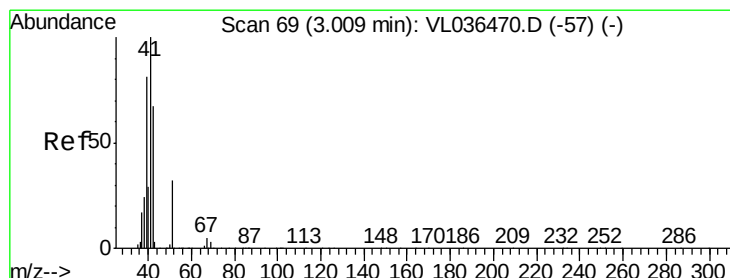
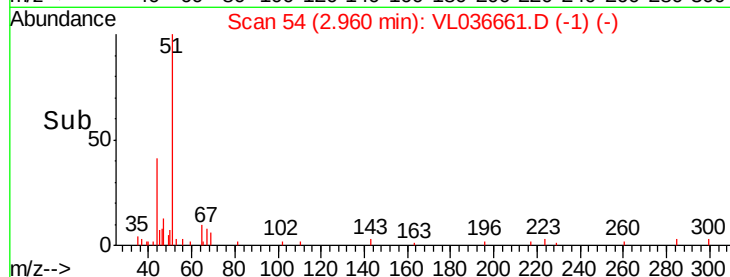
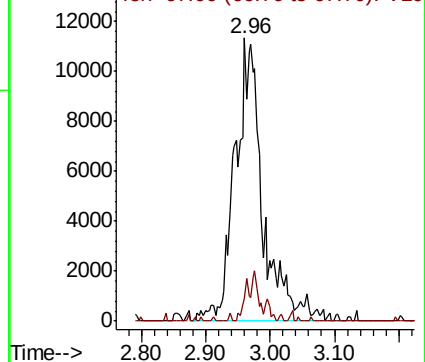
51 100

67 8.7 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.027 ppbv

RT: 3.28 min Scan# 154

Delta R.T. 0.27 min

Lab File: VL036661.D

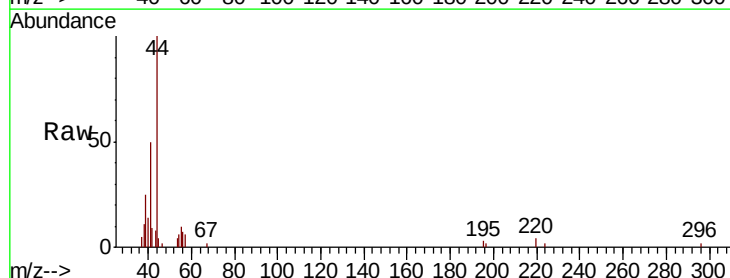
Acq: 3 Apr 2021 1:29

Tgt Ion: 41 Resp: 2074

Ion Ratio Lower Upper

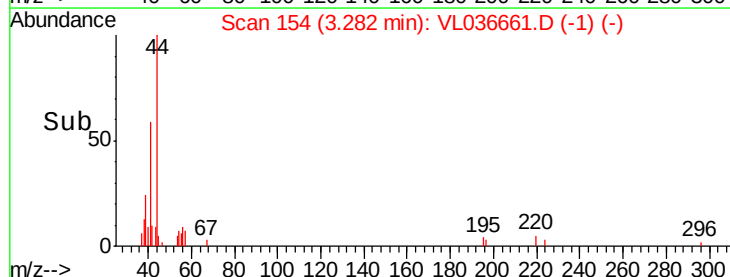
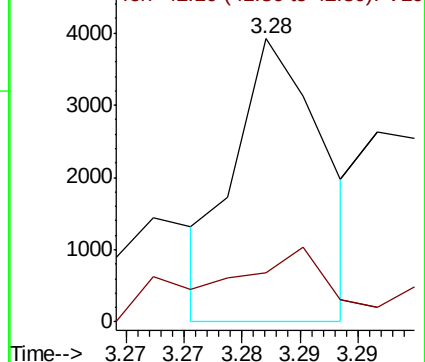
41 100

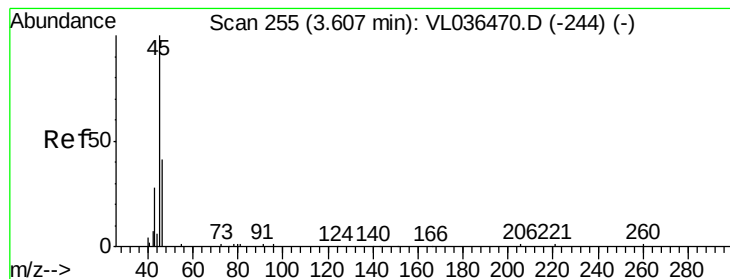
42 59.5 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 26.024 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

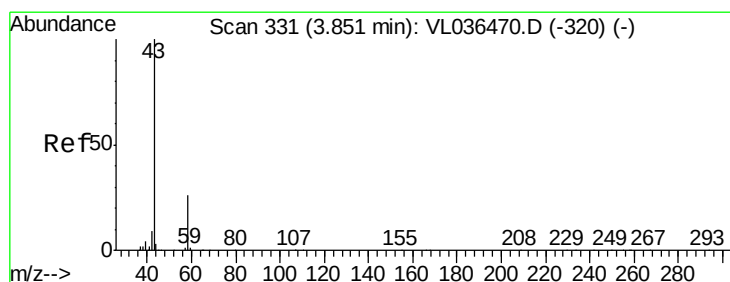
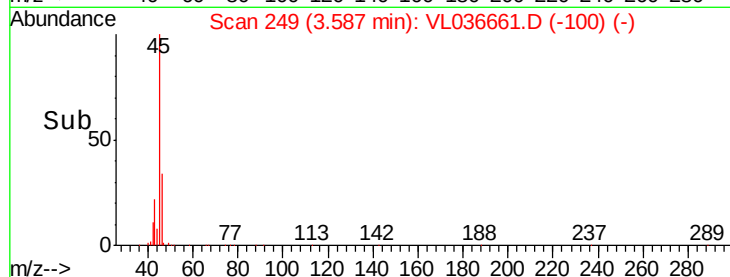
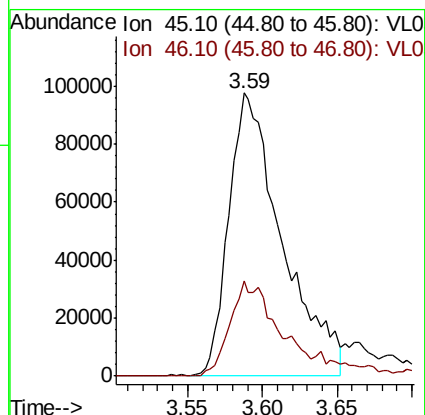
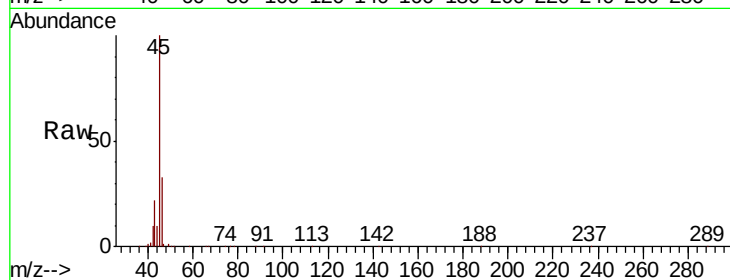
ClientSampled :

Tot Ion: 45 Resp: 241641

Ion Ratio Lower Upper

45 100

46 36.1 16.6 66.2



#15

Acetone

Concen: 2.925 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL036661.D

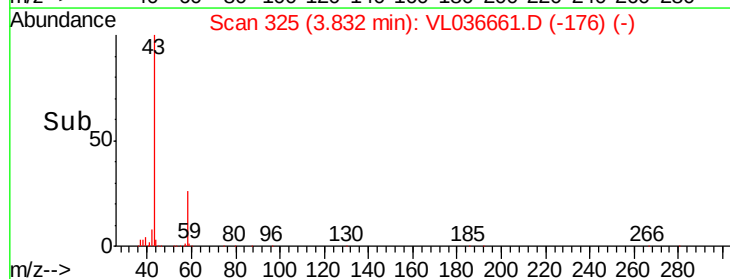
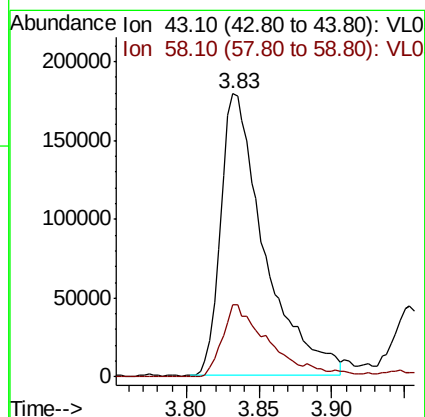
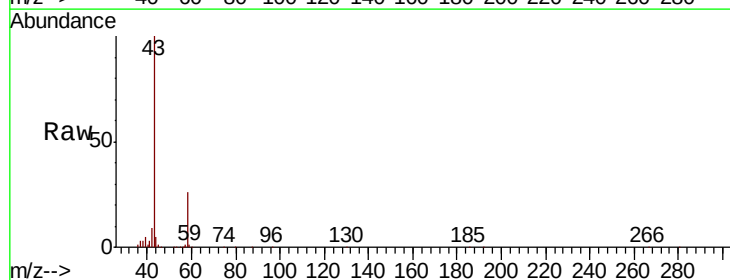
Acq: 3 Apr 2021 1:29

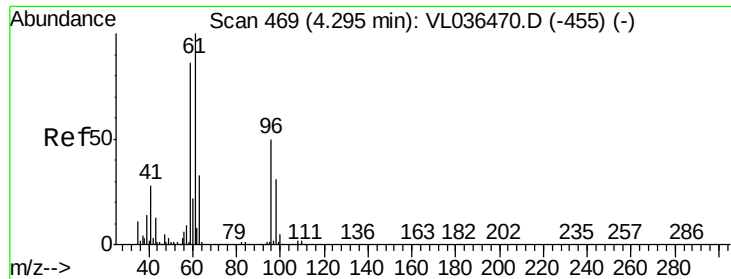
Tgt Ion: 43 Resp: 376857

Ion Ratio Lower Upper

43 100

58 27.7 21.2 31.8



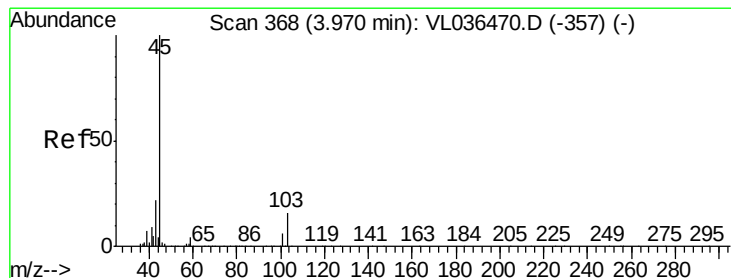
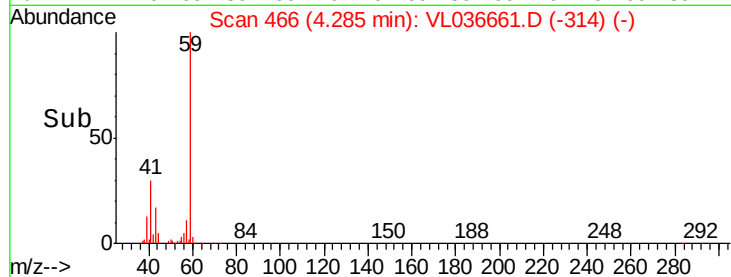
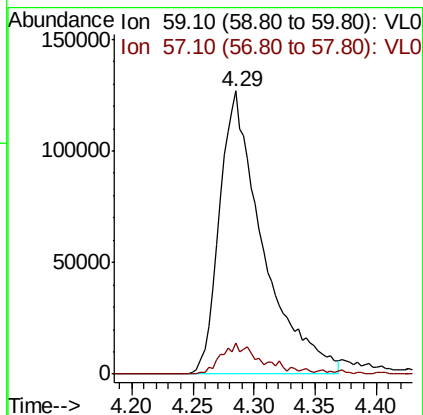
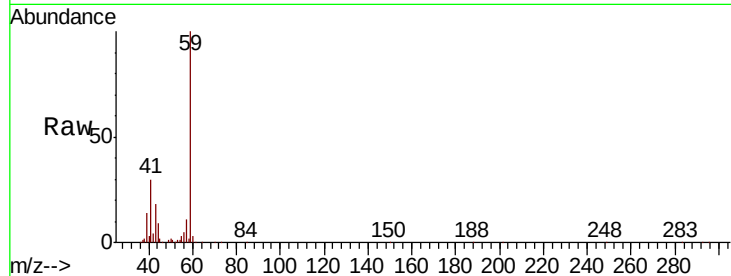


#17

tert-Butyl alcohol
 Concen: 2.789 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.01 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Instrument :
 MSVOA_L
 ClientSampleID :

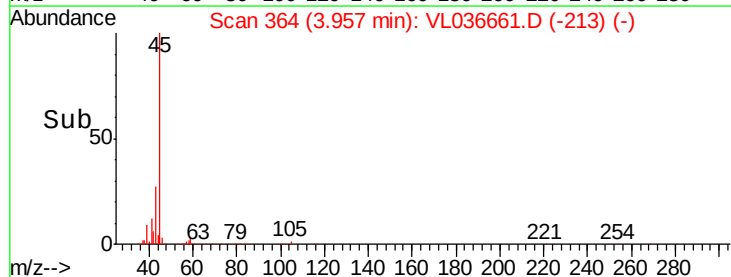
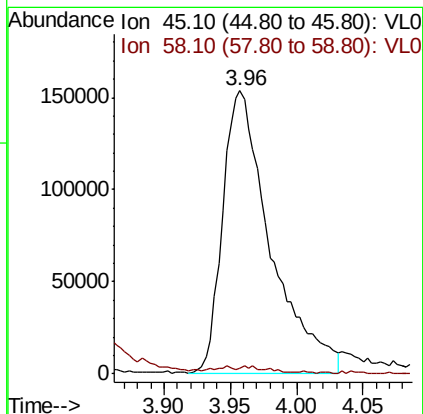
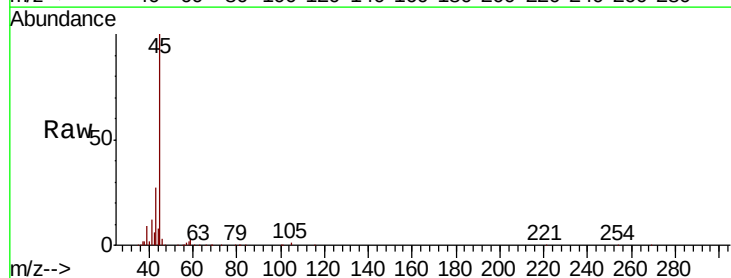
Tot Ion: 59 Resp: 312817
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.6 12.8

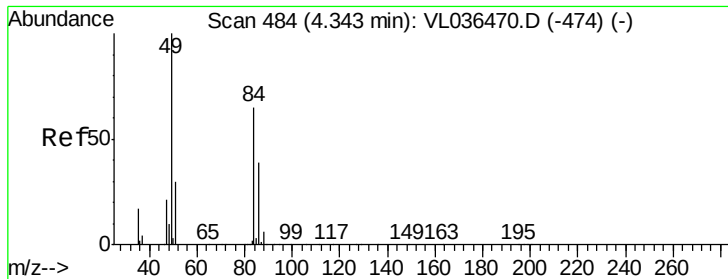


#19

Isopropyl Alcohol
 Concen: 5.436 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. -0.01 min
 Lab File: VL036661.D
 Acq: 3 Apr 2021 1:29

Tgt Ion: 45 Resp: 385306
 Ion Ratio Lower Upper
 45 100
 58 3.7 2.9 4.3

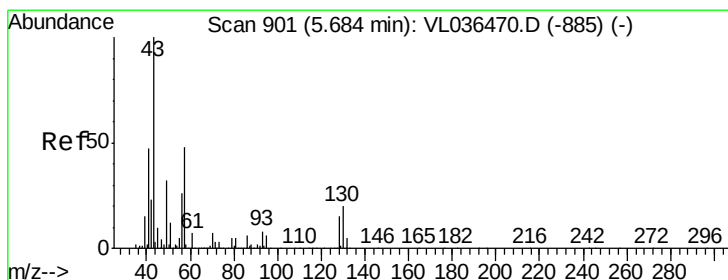
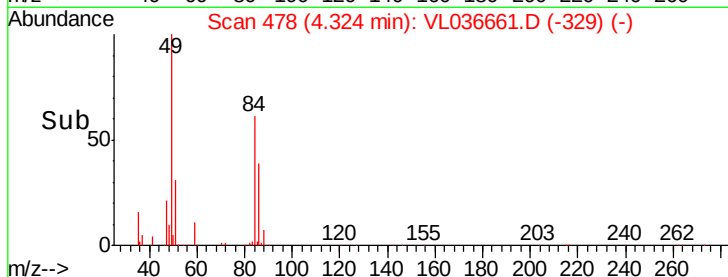
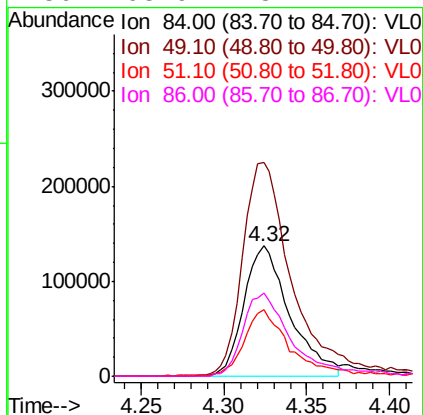
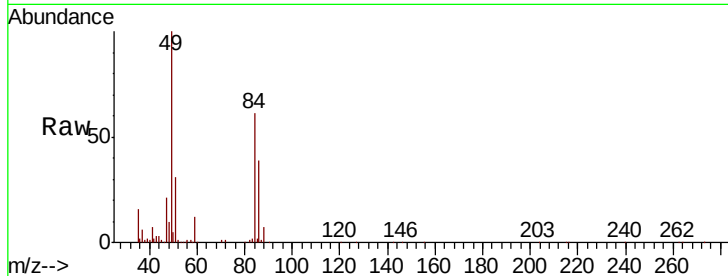




#20
Methvlene Chloride
Concen: 4.385 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

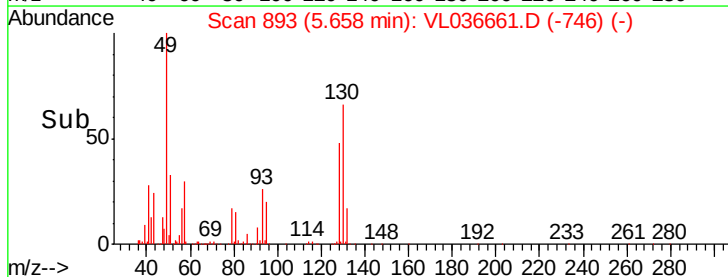
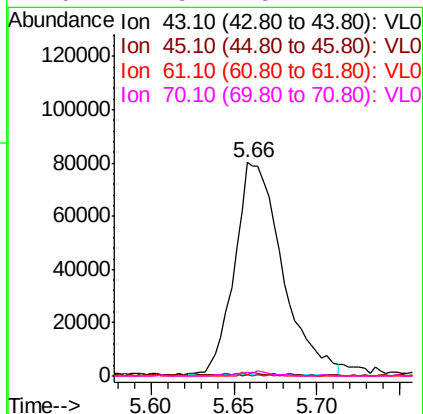
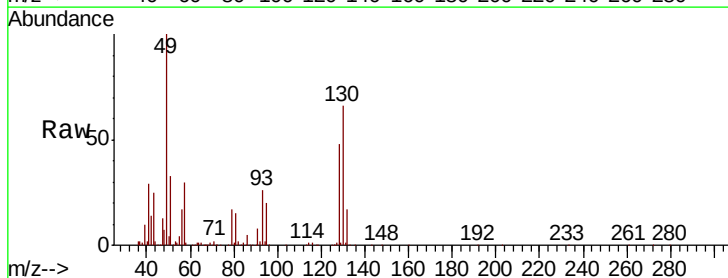
Instrument :
MSVOA_L
ClientSampled :

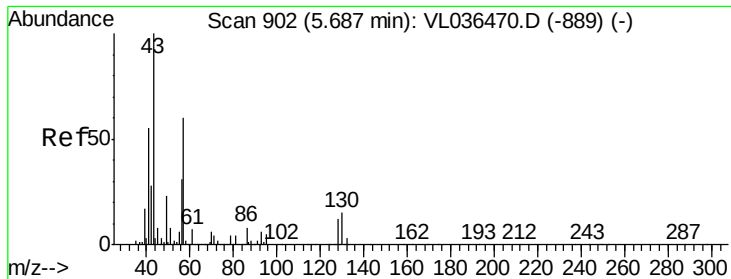
Tot Ion:	84	Resp:	264522
Ion	Ratio	Lower	Upper
84	100		
49	163.6	122.9	184.3
51	50.2	36.9	55.3
86	63.9	48.2	72.4



#25
Ethyl Acetate
Concen: 0.517 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion:	43	Resp:	158385
Ion	Ratio	Lower	Upper
43	100		
45	1.2	7.9	11.9#
61	0.4	7.4	11.2#
70	1.5	5.1	7.7#

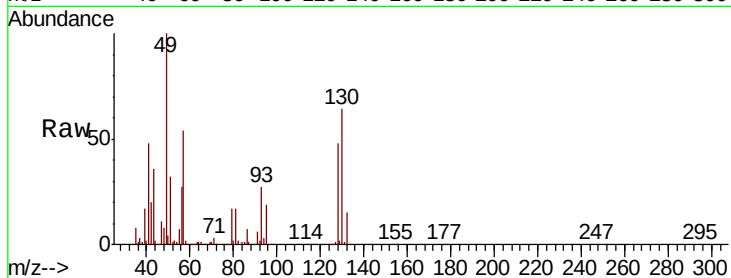




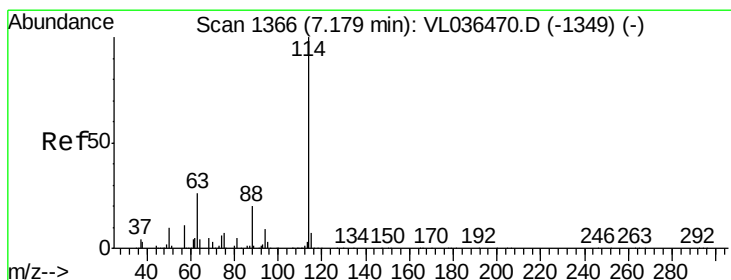
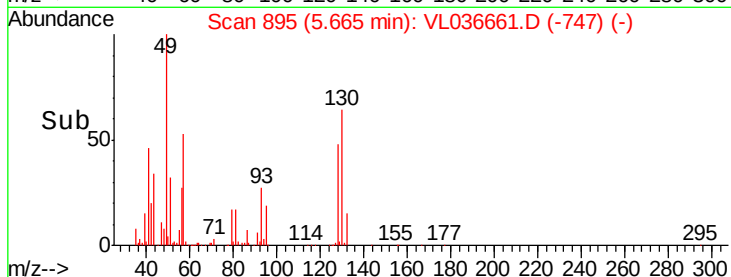
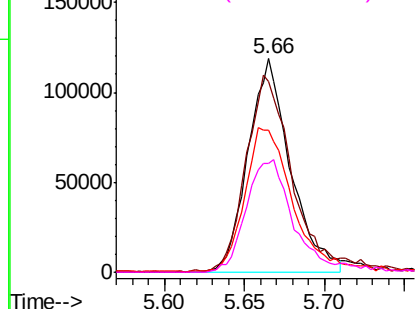
#26
Hexane
Concen: 1.514 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 215255
Ion Ratio Lower Upper
57 100
41 105.2 77.2 115.8
43 77.8 173.8 260.6#
56 60.8 43.8 65.6

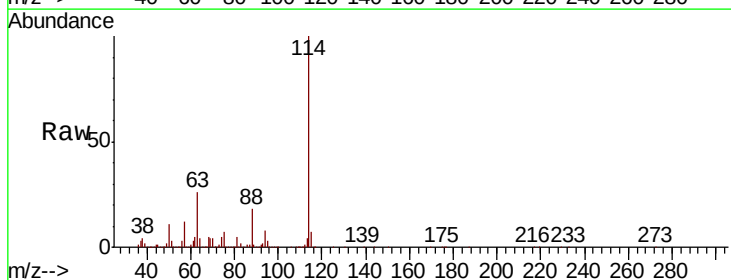


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

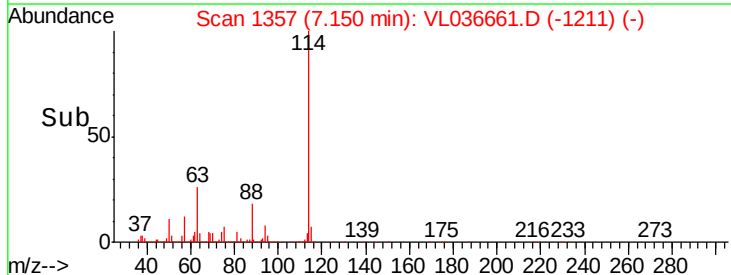
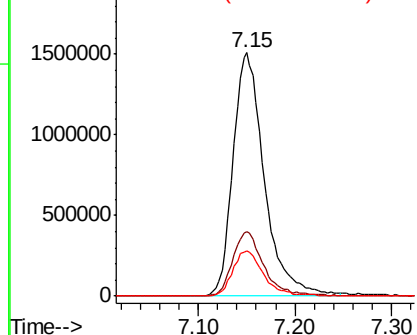


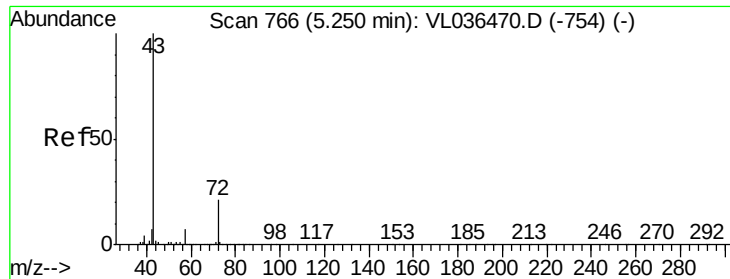
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion:114 Resp: 3398286
Ion Ratio Lower Upper
114 100
63 26.5 22.4 33.6
88 18.6 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

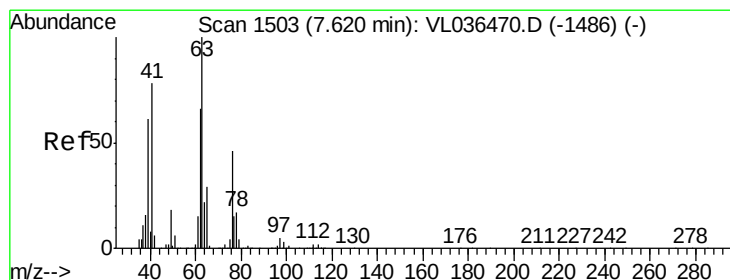
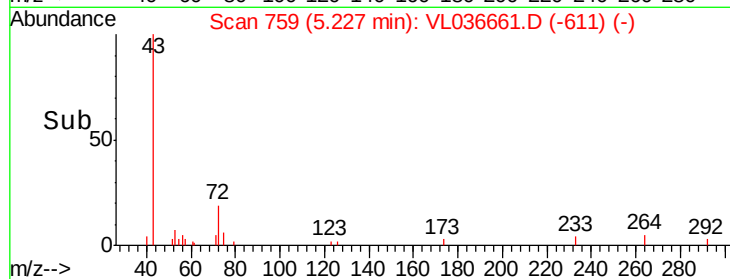
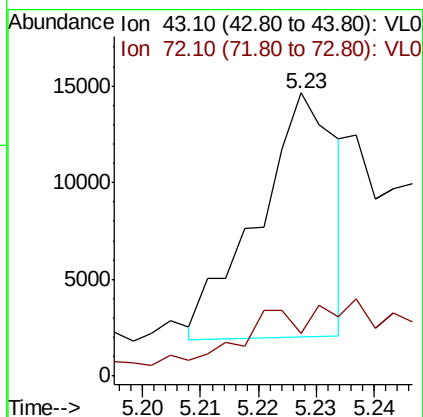
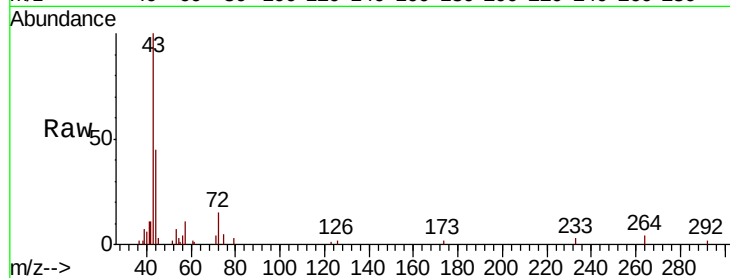




#34
2-Butanone
Concen: 0.071 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

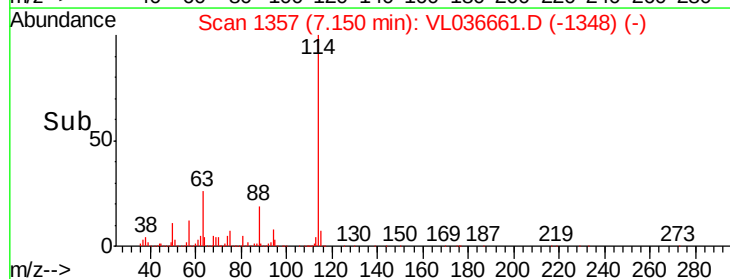
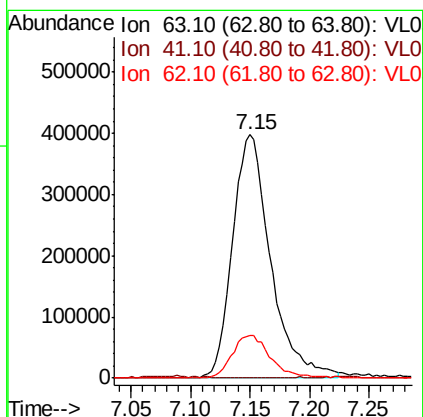
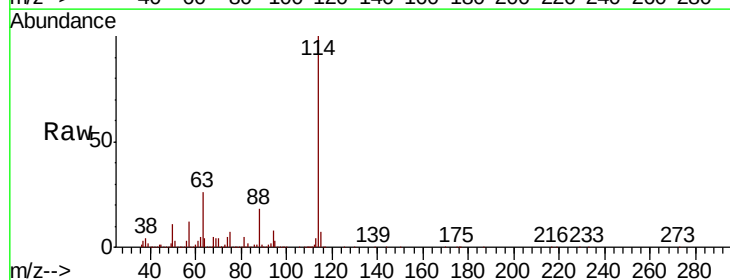
Instrument :
MSVOA_L
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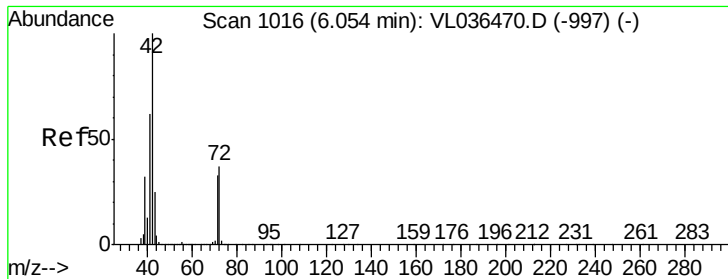
Tot Ion: 43 Resp: 11828
Ion Ratio Lower Upper
43 100
72 59.9 17.0 25.6#



#39
1,2-Dichloropropane
Concen: 6.944 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.47 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion: 63 Resp: 882825
Ion Ratio Lower Upper
63 100
41 0.0 62.4 93.6#
62 17.4 52.8 79.2#





#41

Tetrahydrofuran

Concen: 0.092 ppbv

RT: 6.02 min Scan# 1006

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

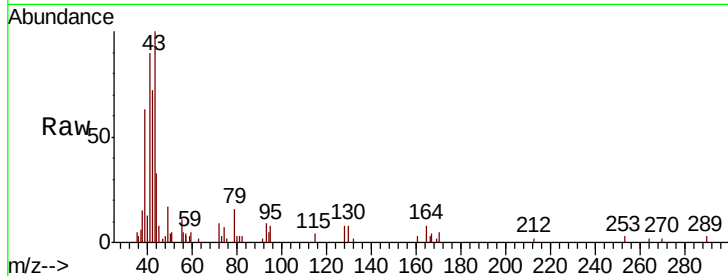
Tot Ion: 42 Resp: 7034

Ion Ratio Lower Upper

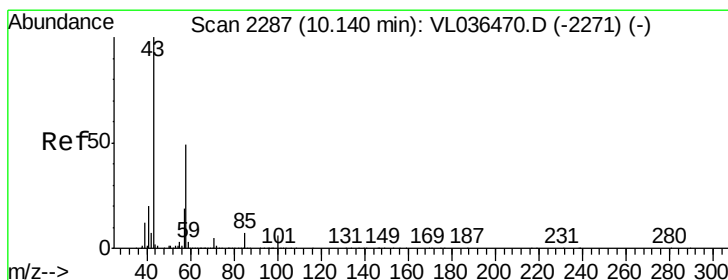
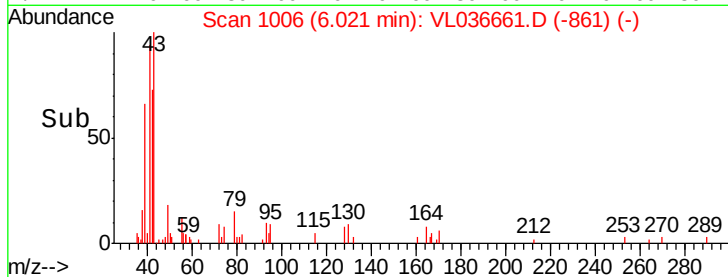
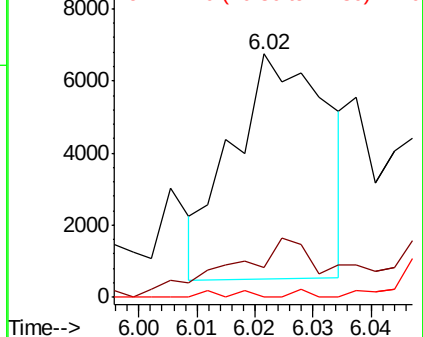
42 100

72 47.5 27.6 41.4#

71 0.0 27.0 40.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#51

2-Hexanone

Concen: 0.035 ppbv

RT: 10.09 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

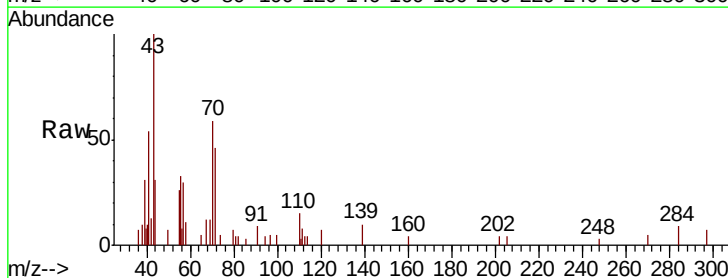
Tgt Ion: 43 Resp: 4202

Ion Ratio Lower Upper

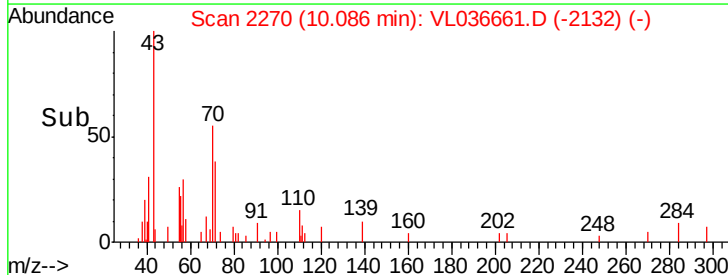
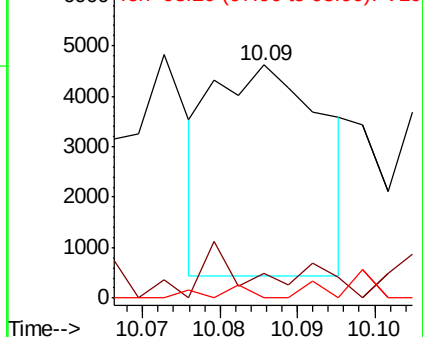
43 100

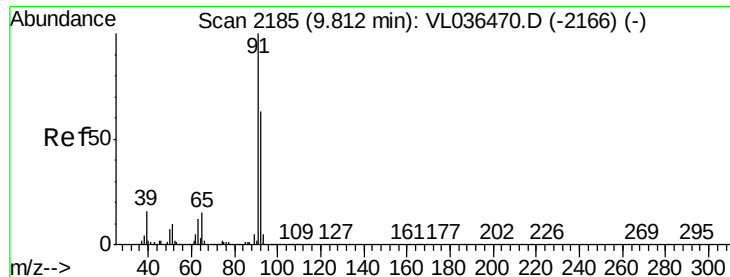
58 0.0 37.7 56.5#

98 6.1 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





#53

Toluene

Concen: 0.031 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

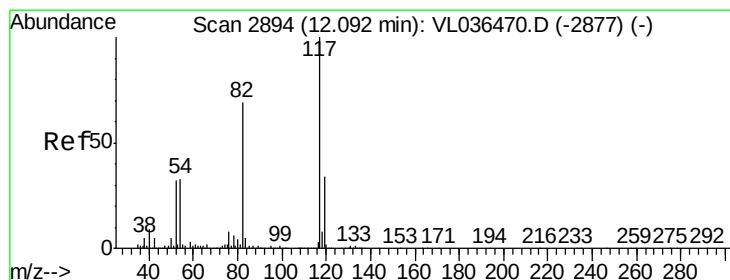
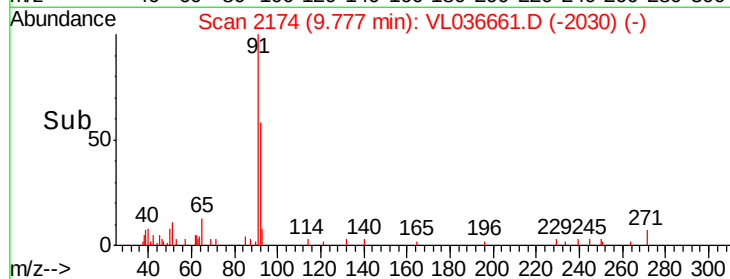
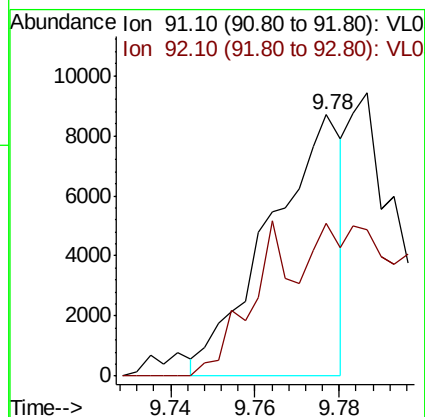
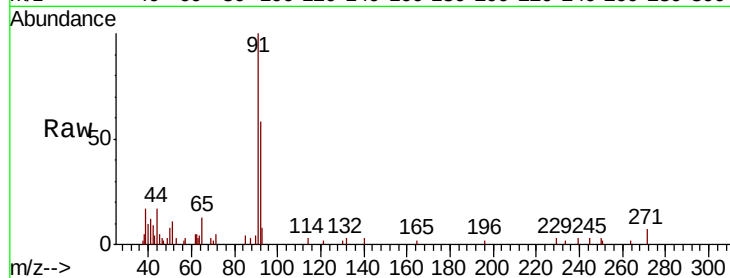
ClientSampleId :

Tot Ion: 91 Resp: 10358

Ion Ratio Lower Upper

91 100

92 128.8 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

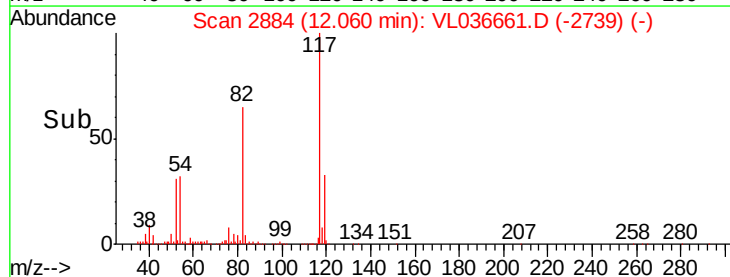
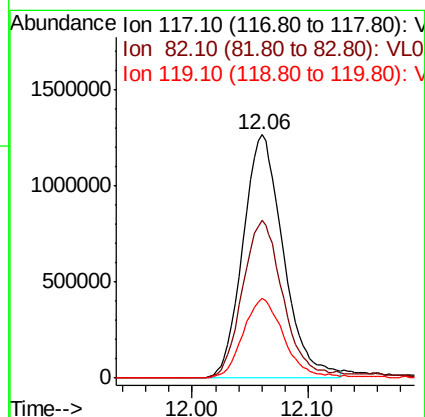
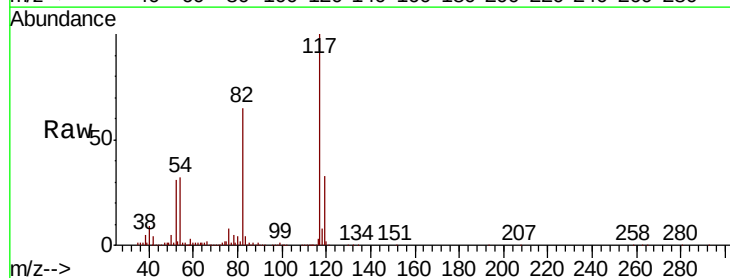
Tgt Ion: 117 Resp: 3066224

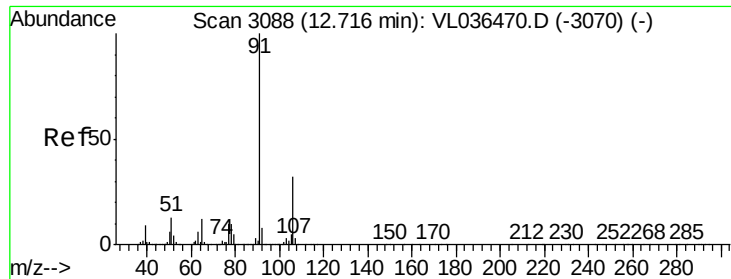
Ion Ratio Lower Upper

117 100

82 68.1 57.4 86.0

119 34.4 47.4 71.0#





#58

Ethyl Benzene

Concen: 0.076 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

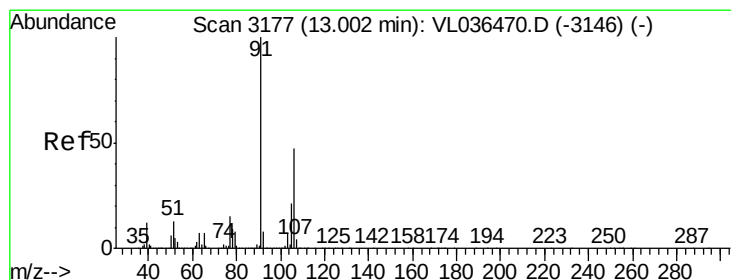
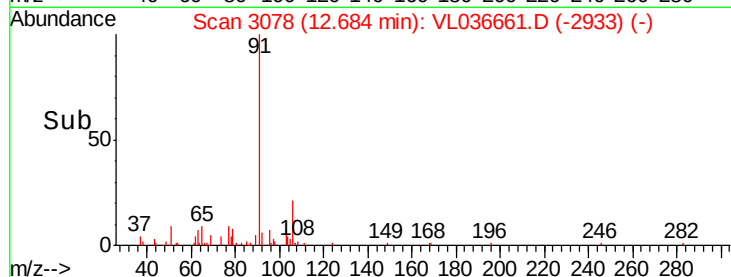
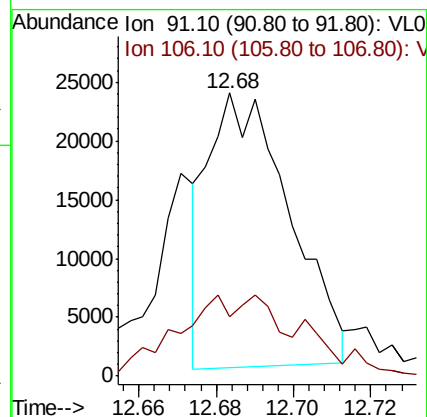
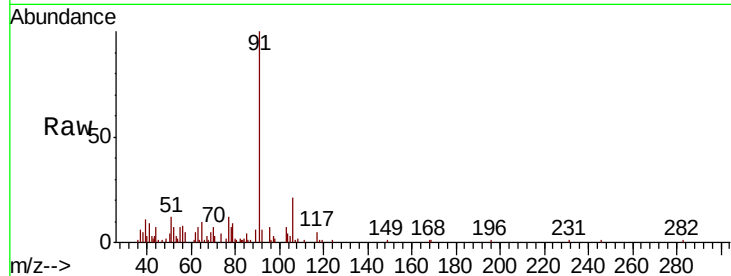
ClientSampleId :

Tot Ion: 91 Resp: 33864

Ion Ratio Lower Upper

91 100

106 20.2 25.3 37.9#



#59

m/p-Xylene

Concen: 0.215 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL036661.D

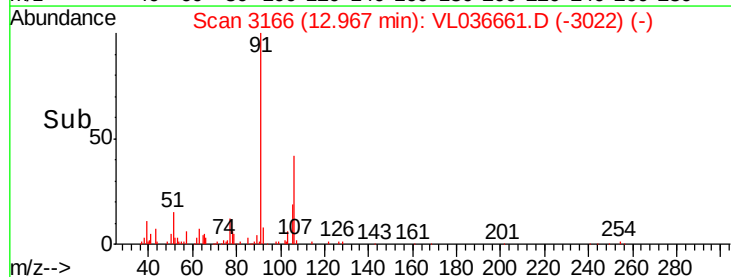
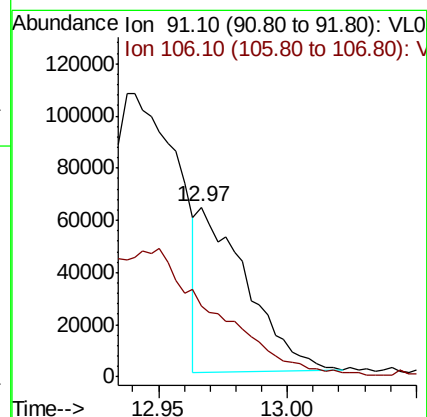
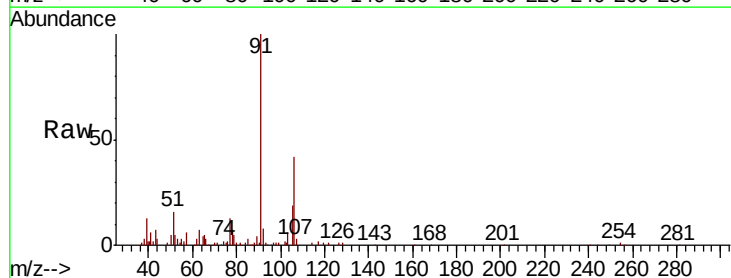
Acq: 3 Apr 2021 1:29

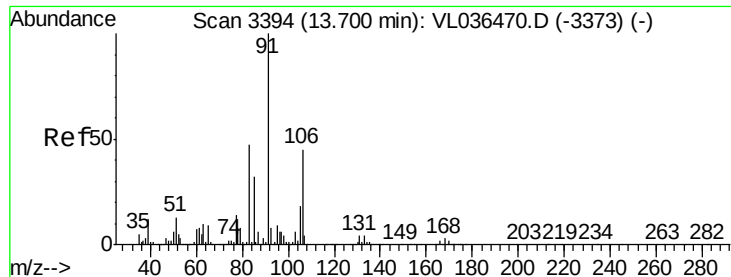
Tgt Ion: 91 Resp: 83734

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

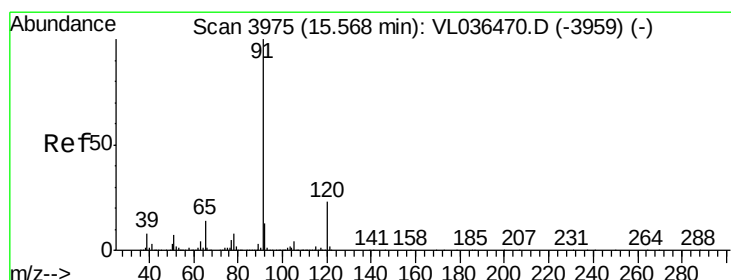
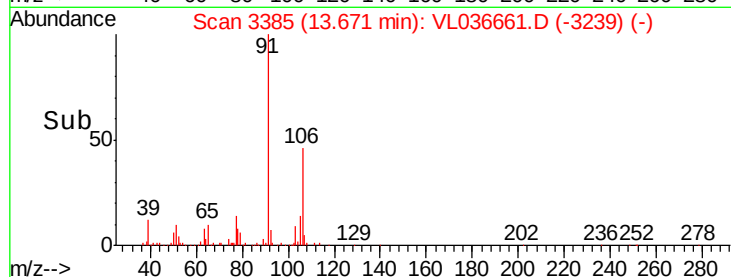
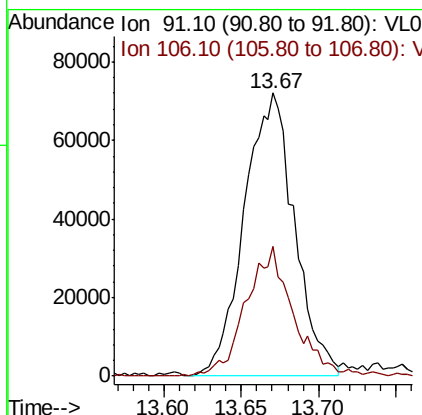
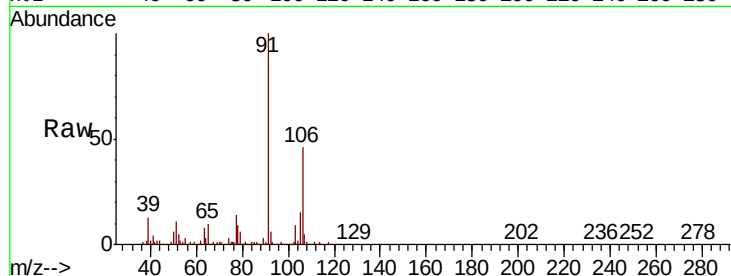




#60
o-Xylene
Concen: 0.432 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.03 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

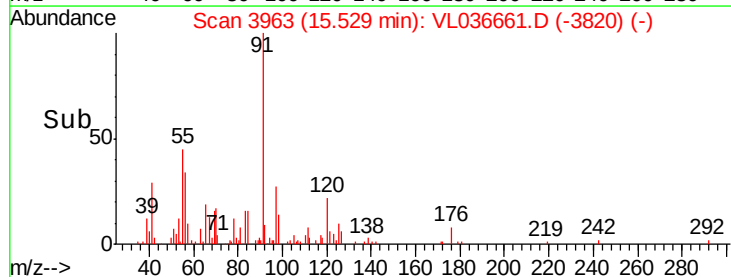
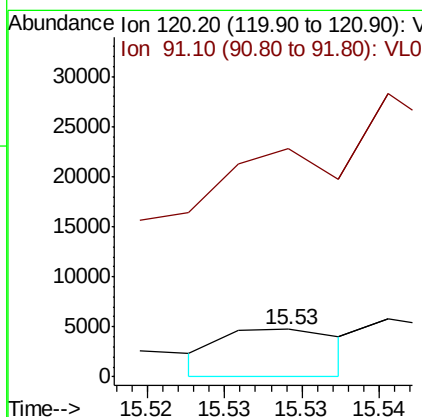
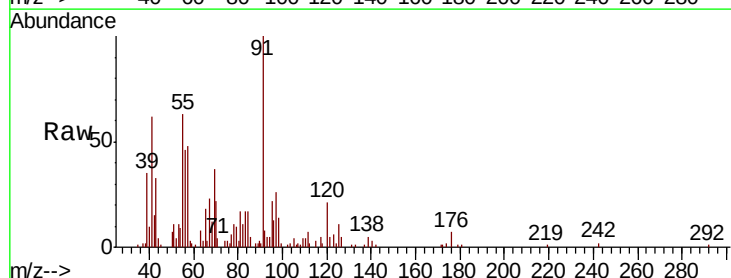
Instrument :
MSVOA_L
ClientSampleId :

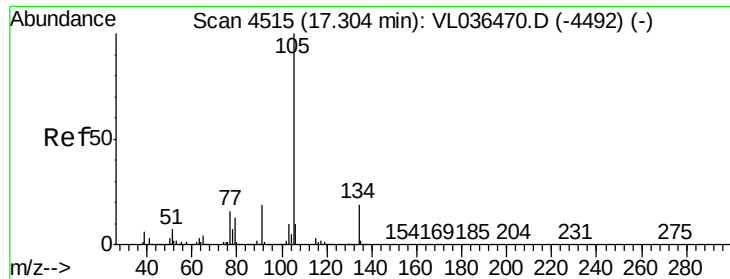
Tot Ion: 91 Resp: 162534
Ion Ratio Lower Upper
91 100
106 43.5 22.3 66.9



#64
n-propylbenzene
Concen: 0.021 ppbv
RT: 15.53 min Scan# 3963
Delta R.T. -0.04 min
Lab File: VL036661.D
Acq: 3 Apr 2021 1:29

Tgt Ion: 120 Resp: 2556
Ion Ratio Lower Upper
120 100
91 0.0 377.4 566.2#





#67

sec-Butylbenzene

Concen: 0.109 ppbv

RT: 17.27 min Scan# 4504

Delta R.T. -0.04 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

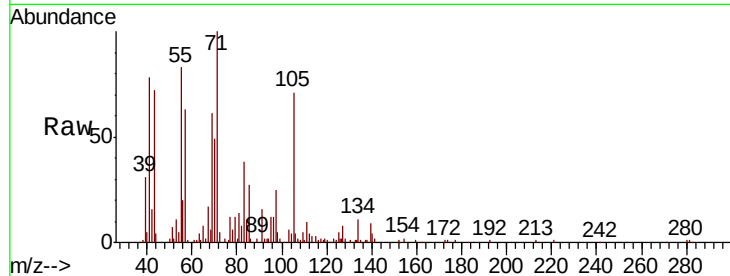
ClientSampled :

Tot Ion:105 Resp: 67710

Ion Ratio Lower Upper

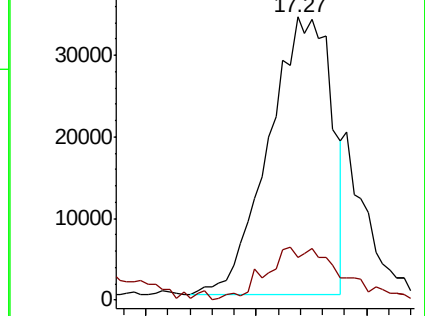
105 100

134 22.7 14.7 22.1#

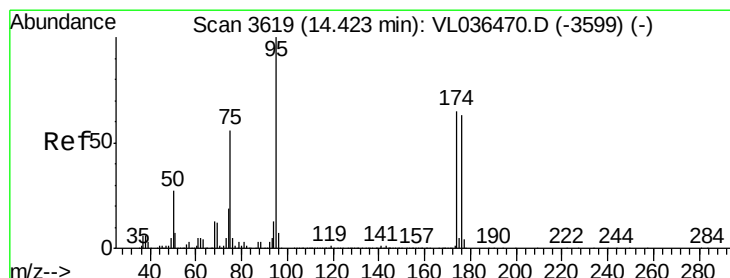
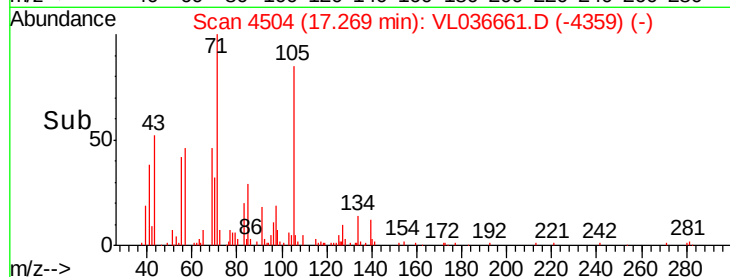


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.243 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

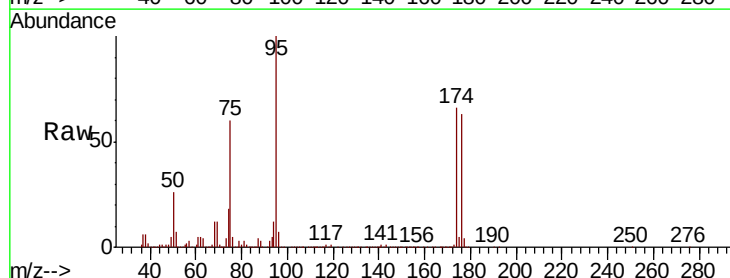
Tgt Ion: 95 Resp: 2503140

Ion Ratio Lower Upper

95 100

174 67.7 51.0 76.6

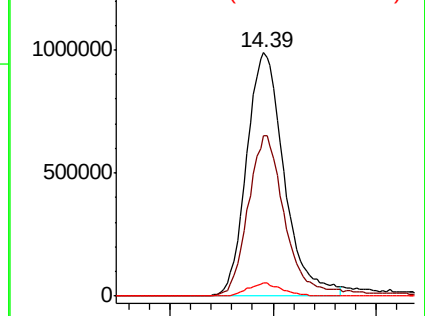
175 5.1 3.9 5.9



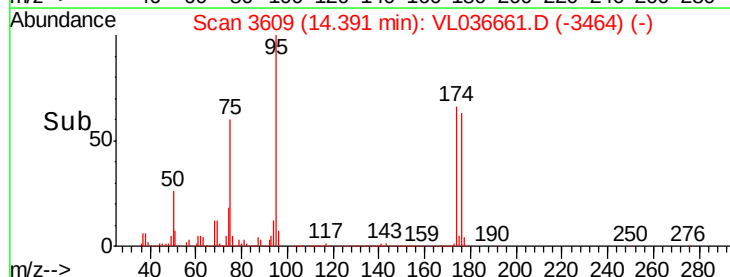
Abundance Ion 95.10 (94.80 to 95.80): VL0

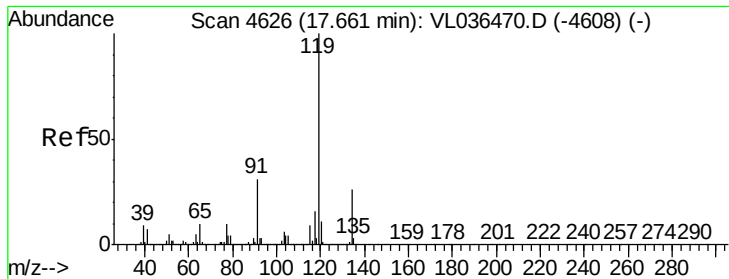
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





#69

p-Isopropyltoluene

Concen: 0.127 ppbv

RT: 17.63 min Scan# 4617

Delta R.T. -0.03 min

Lab File: VL036661.D

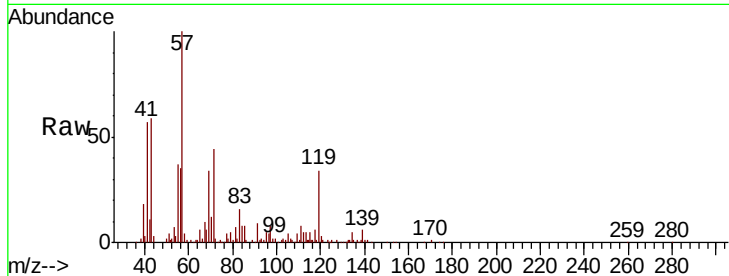
Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

ClientSampleId :

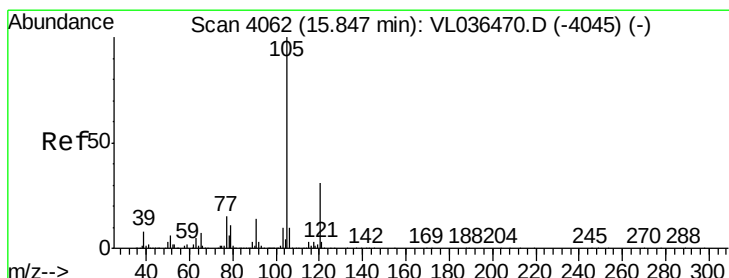
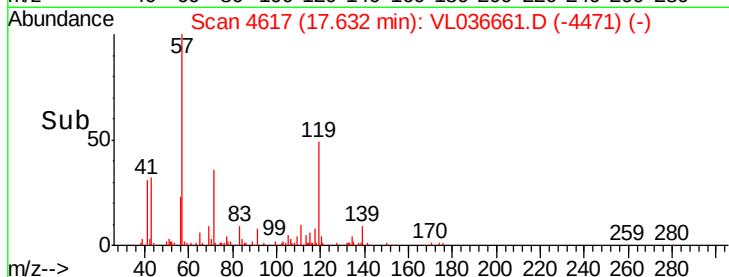
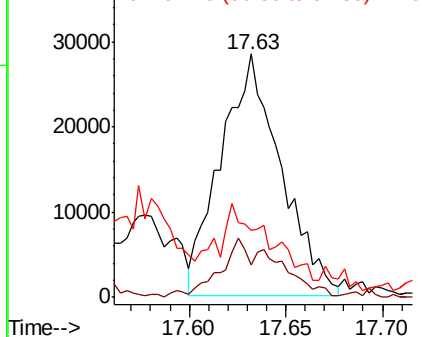
Tot Ion:	119	Resp:	61511
Ion	Ratio	Lower	Upper
119	100		
134	23.2	20.6	30.8
91	31.4	25.0	37.6



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): V



#72

4-Ethyltoluene

Concen: 0.087 ppbv

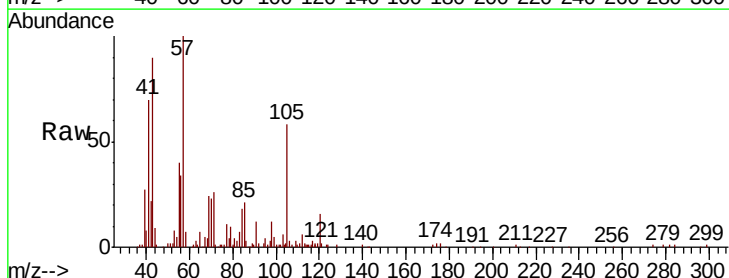
RT: 15.82 min Scan# 4052

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Tgt Ion:	105	Resp:	36057
Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.0	36.0#
91	32.4	11.0	16.4#
77	0.0	11.7	17.5#

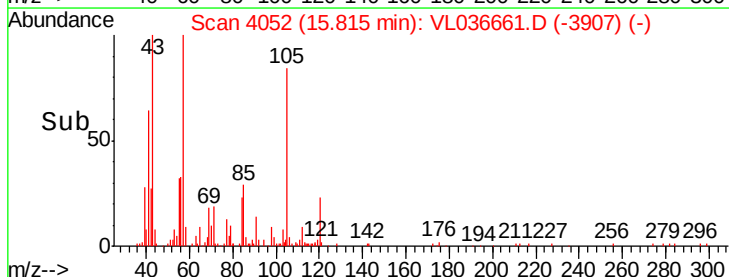
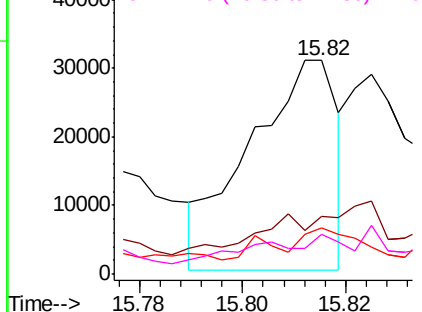


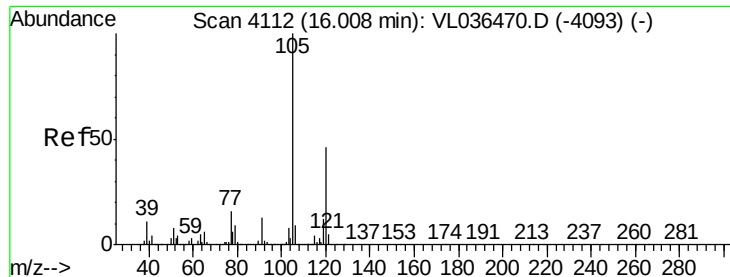
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#73

1,3,5-Trimethylbenzene

Concen: 0.328 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Instrument :

MSVOA_L

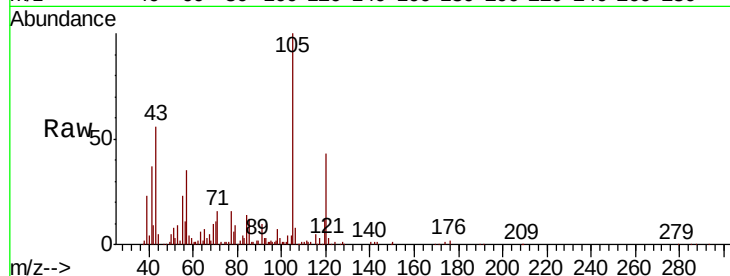
ClientSampleId :

Tot Ion:105 Resp: 126251

Ion Ratio Lower Upper

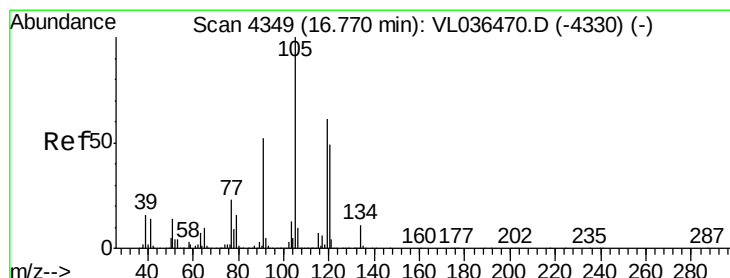
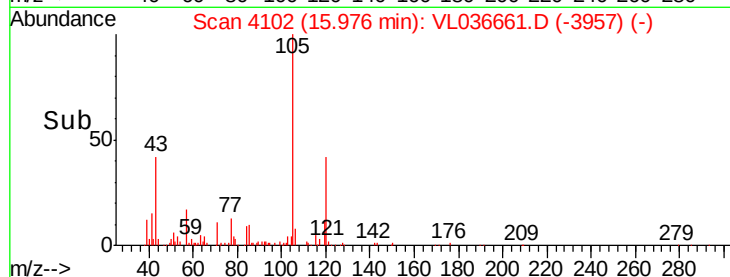
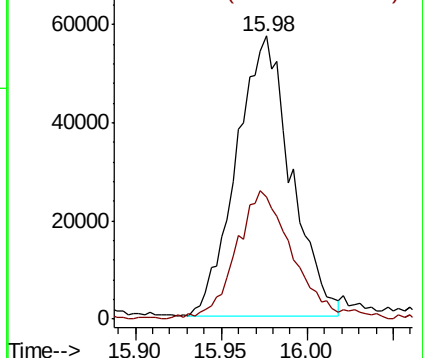
105 100

120 41.6 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.922 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. -0.03 min

Lab File: VL036661.D

Acq: 3 Apr 2021 1:29

Tgt Ion:105 Resp: 379724

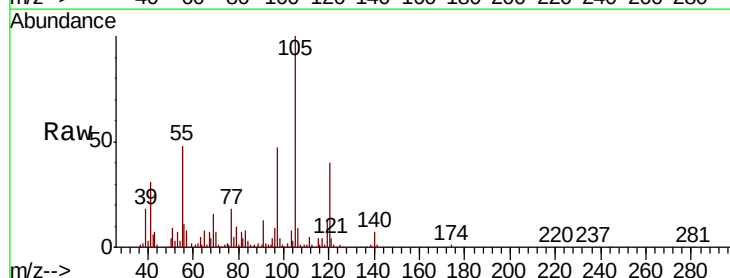
Ion Ratio Lower Upper

105 100

120 39.6 39.2 58.8

91 12.1 42.6 64.0#

77 17.3 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

