

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036598.D
 Acq On : 31 Mar 2021 12:23
 Operator : SY/AP
 Sample : M1840-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 01 04:25:31 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	5.66	49	1431172	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3379158	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2838850	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2360881	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

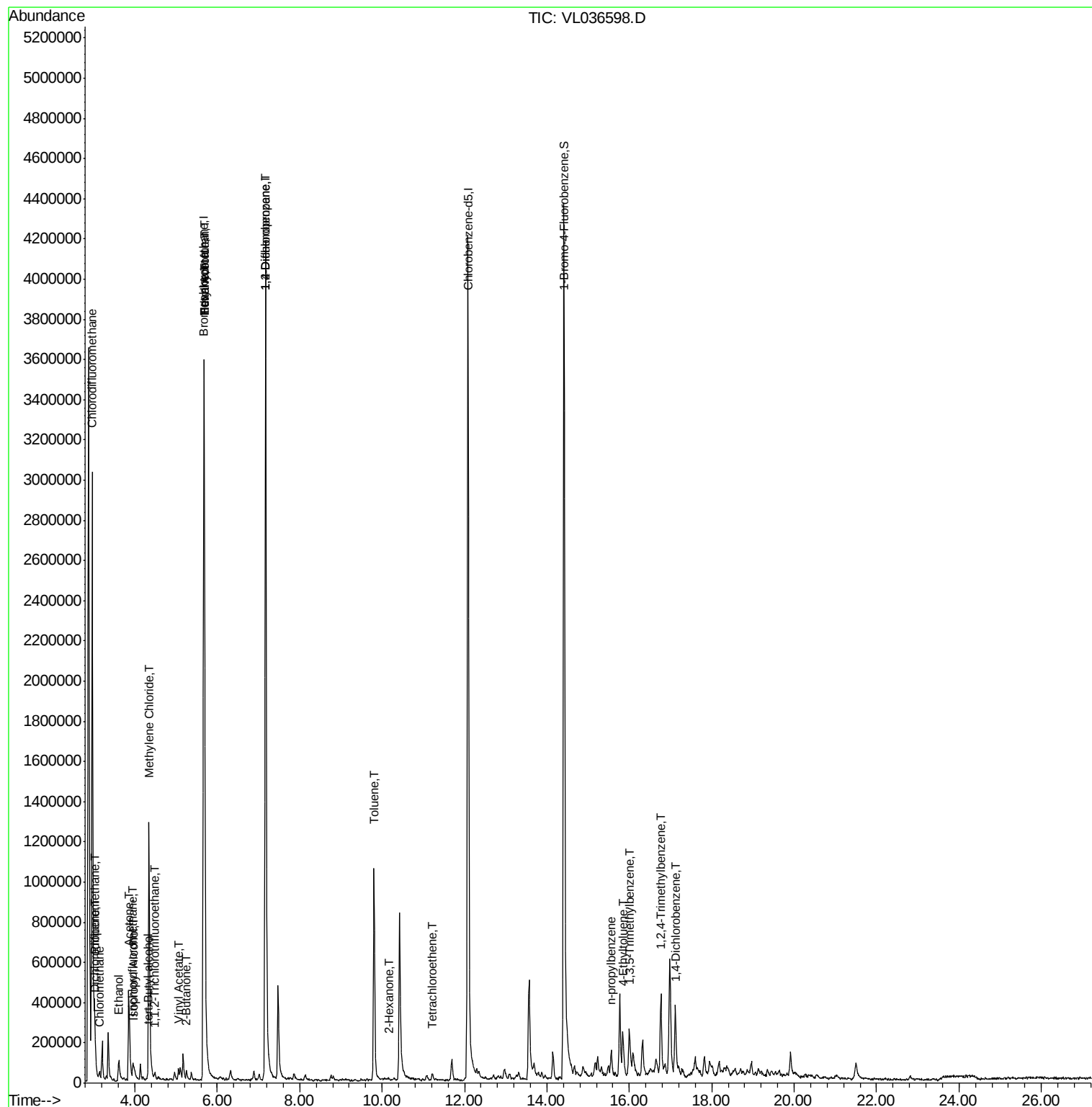
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	52001	0.223	ppbv 99
3) Chlorodifluoromethane	2.96	51	2470075	9.238	ppbv # 60
4) Chloromethane	3.14	50	20477	0.217	ppbv # 79
9) Propene	3.02	41	65398	0.767	ppbv # 72
11) Trichlorofluoromethane	3.95	101	31888	0.134	ppbv # 78
12) 1,1,2-Trichlorotrifluoroet	4.48	101	6113	0.040	ppbv # 23
13) Ethanol	3.60	45	64445	6.349	ppbv # 18
15) Acetone	3.85	43	566255	4.020	ppbv 97
17) tert-Butyl alcohol	4.30	59	3903	0.032	ppbv # 72
19) Isopropyl Alcohol	3.97	45	18625	0.240	ppbv # 89
20) Methylene Chloride	4.34	84	508399	7.709	ppbv 95
23) Vinyl Acetate	5.07	43	18223	0.076	ppbv # 71
25) Ethyl Acetate	5.68	43	803503	2.399	ppbv # 78
26) Hexane	5.68	57	1108316	7.132	ppbv # 47
34) 2-Butanone	5.25	43	27329	0.166	ppbv # 26
39) 1,2-Dichloropropane	7.17	63	917677	7.259	ppbv # 24
41) Tetrahydrofuran	5.68	42	449215	5.907	ppbv # 54
51) 2-Hexanone	10.15	43	3491	0.029	ppbv # 1
52) Tetrachloroethene	11.22	164	4367	0.038	ppbv # 39
53) Toluene	9.80	91	859022	2.588	ppbv 99
64) n-propylbenzene	15.55	120	11643	0.102	ppbv # 1
72) 4-Ethyltoluene	15.84	105	152715	0.400	ppbv # 92
73) 1,3,5-Trimethylbenzene	16.00	105	153050	0.430	ppbv 91
74) 1,2,4-Trimethylbenzene	16.76	105	287796	0.755	ppbv # 66
76) 1,4-Dichlorobenzene	17.14	146	4277	0.020	ppbv # 1

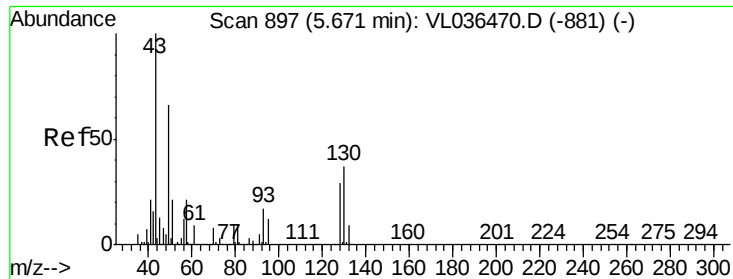
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036598.D
Acq On : 31 Mar 2021 12:23
Operator : SY/AP
Sample : M1840-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :

Quant Time: Apr 01 04:25:31 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

ClientSampleId :

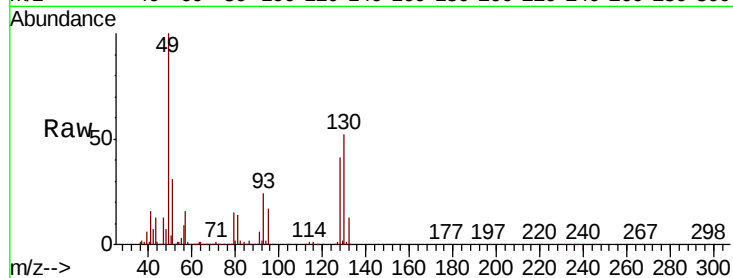
Tot Ion: 49 Resp: 1431172

Ion Ratio Lower Upper

49 100

128 45.3 23.5 70.6

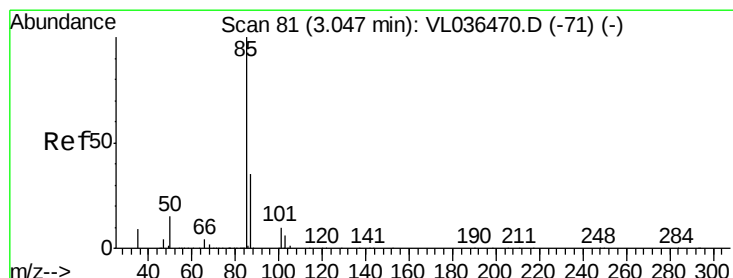
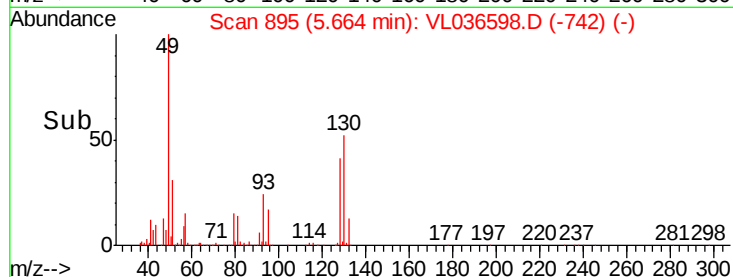
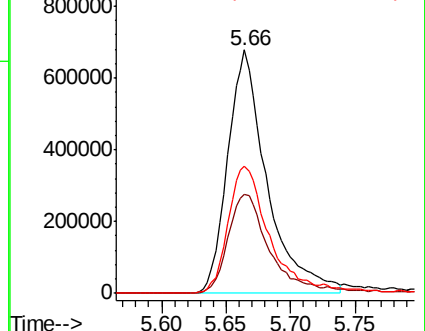
130 57.6 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.223 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036598.D

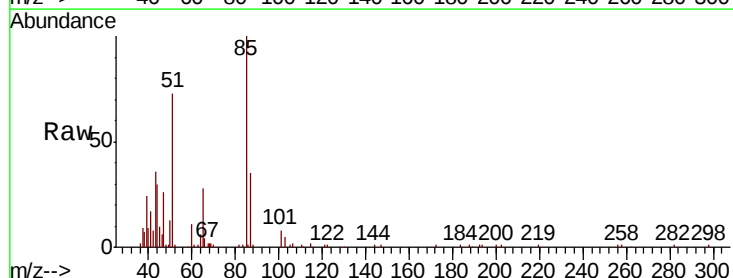
Acq: 31 Mar 2021 12:23

Tgt Ion: 85 Resp: 52001

Ion Ratio Lower Upper

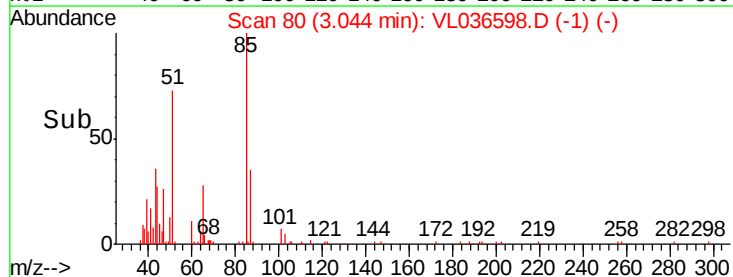
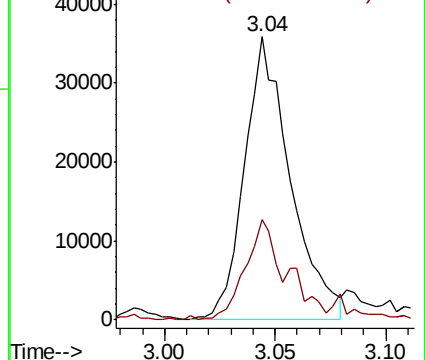
85 100

87 34.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.238 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

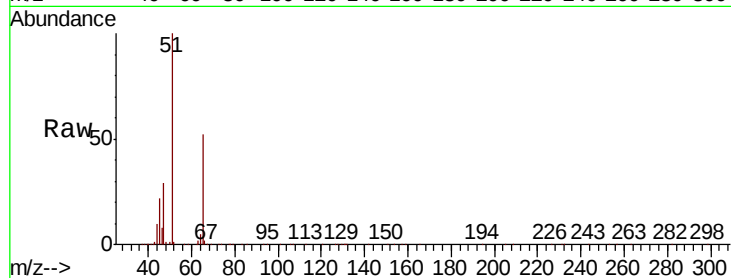
ClientSampled :

Tot Ion: 51 Resp: 2470075

Ion Ratio Lower Upper

51 100

67 0.5 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

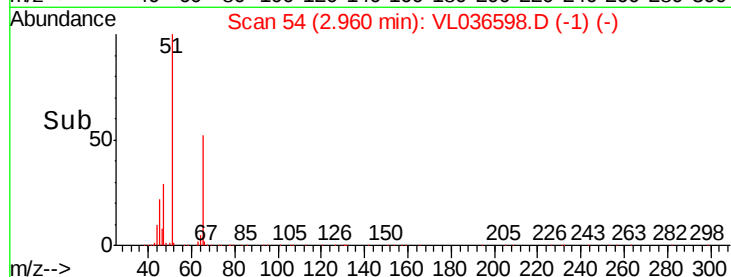
1500000

1000000

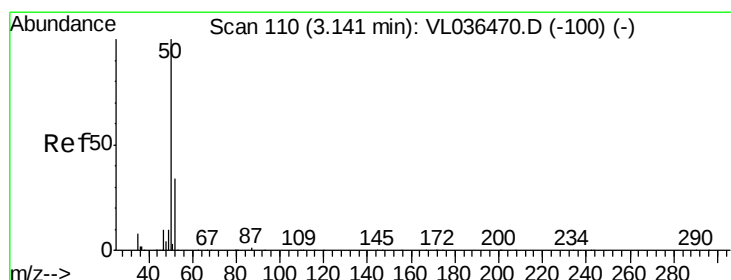
500000

0

Time-->



Time-->



#4

Chloromethane

Concen: 0.217 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036598.D

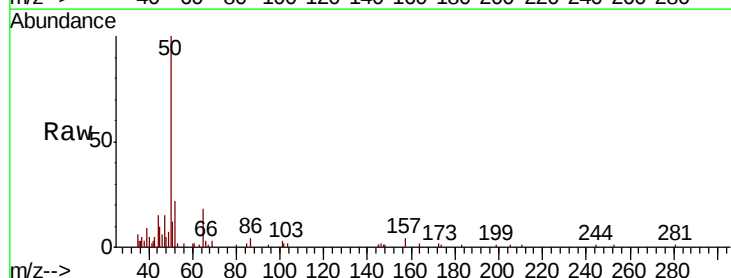
Acq: 31 Mar 2021 12:23

Tgt Ion: 50 Resp: 20477

Ion Ratio Lower Upper

50 100

52 22.0 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

20000

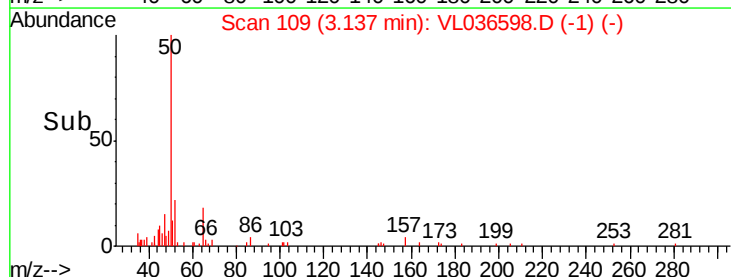
15000

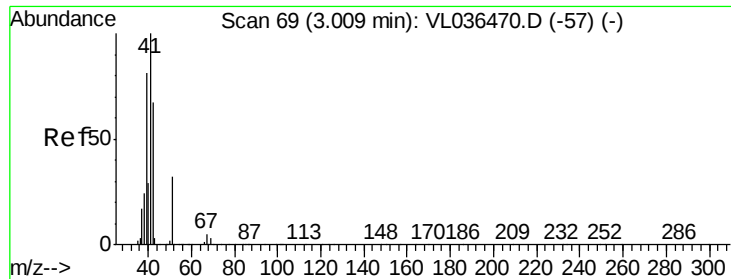
10000

5000

0

Time-->





#9

Propene

Concen: 0.767 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

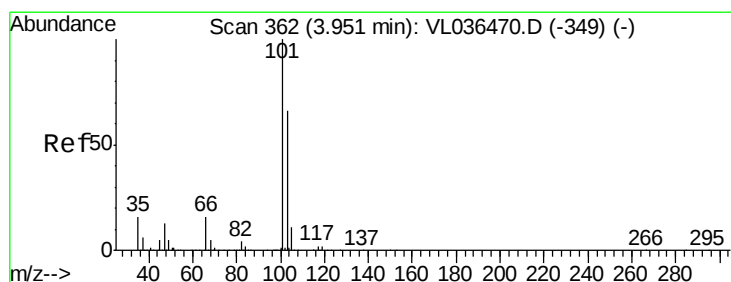
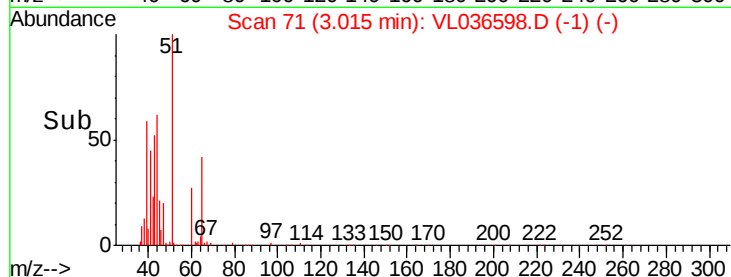
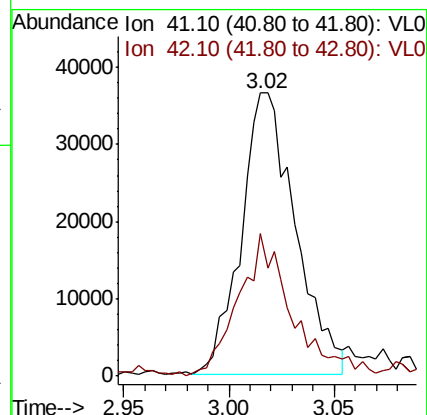
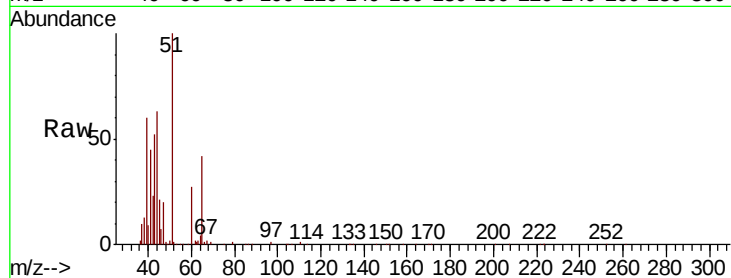
ClientSampleId :

Tot Ion: 41 Resp: 65398

Ion Ratio Lower Upper

41 100

42 48.1 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.134 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL036598.D

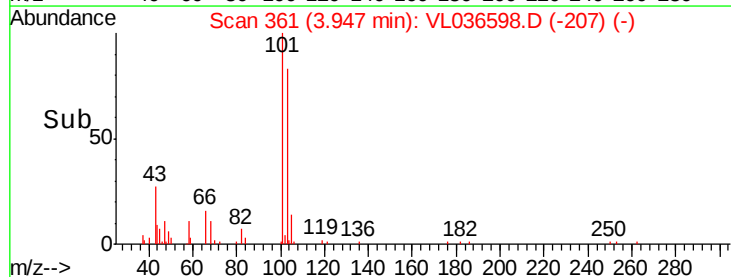
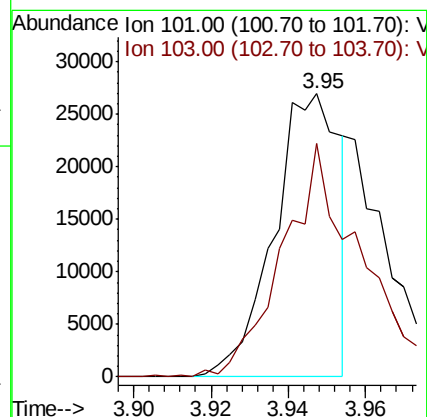
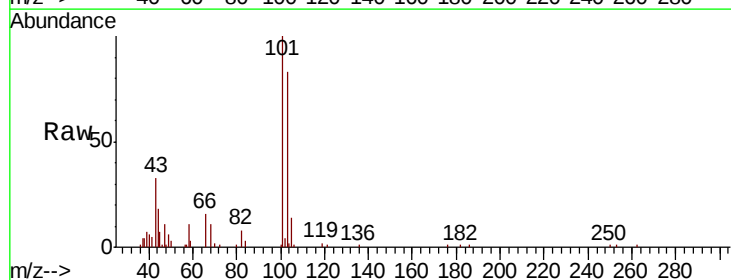
Acq: 31 Mar 2021 12:23

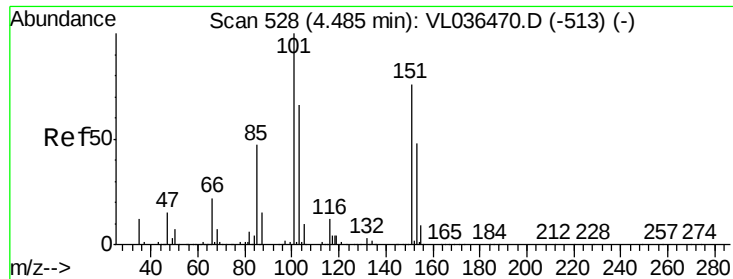
Tgt Ion: 101 Resp: 31888

Ion Ratio Lower Upper

101 100

103 82.7 52.5 78.7#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.040 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.00 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

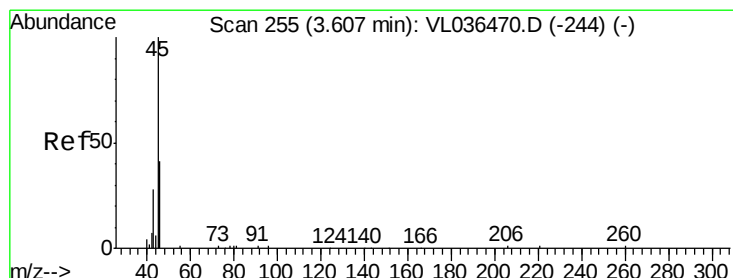
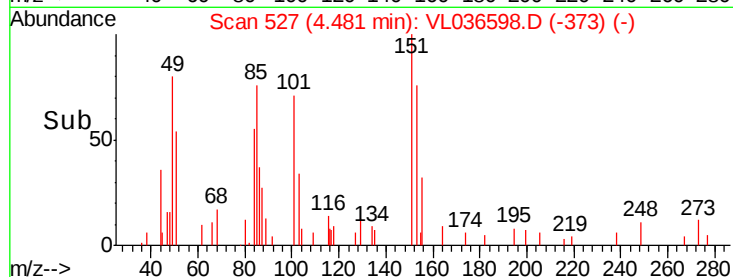
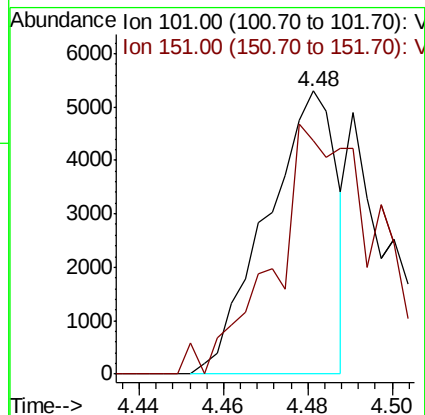
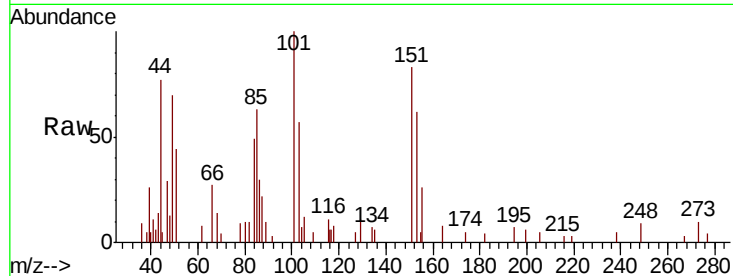
ClientSampleId :

Tot Ion:101 Resp: 6113

Ion Ratio Lower Upper

101 100

151 142.6 60.9 91.3#



#13

Ethanol

Concen: 6.349 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL036598.D

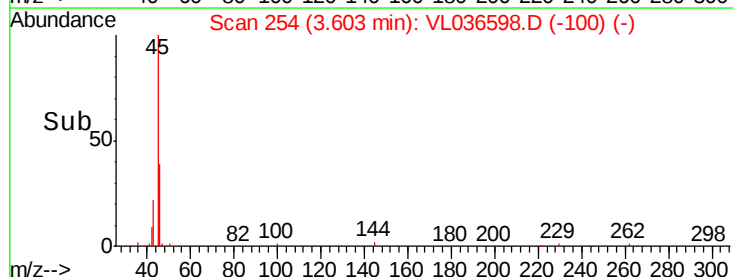
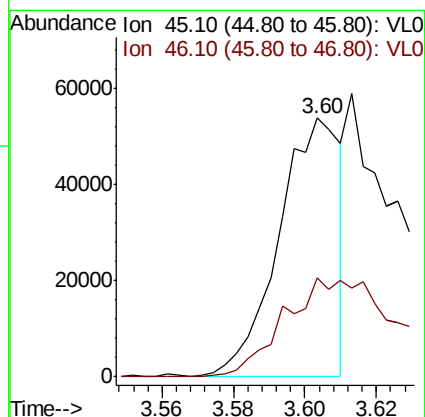
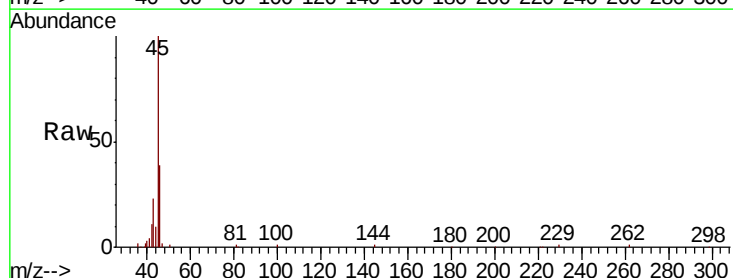
Acq: 31 Mar 2021 12:23

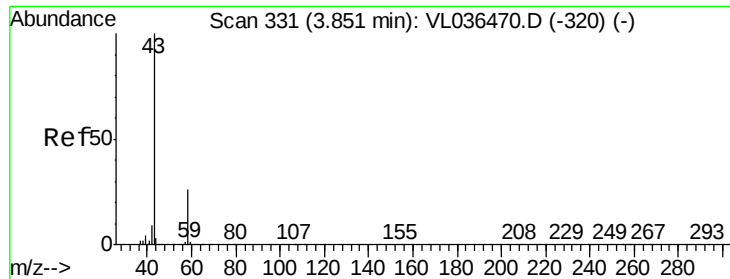
Tgt Ion: 45 Resp: 64445

Ion Ratio Lower Upper

45 100

46 92.9 16.6 66.2#

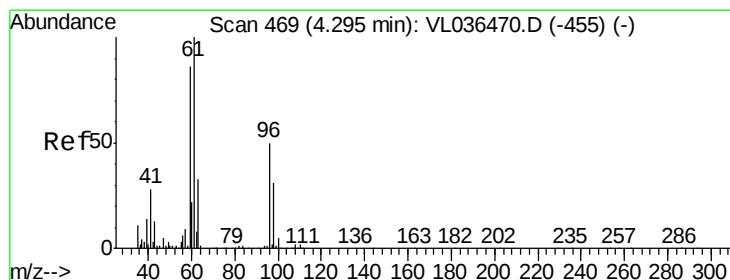
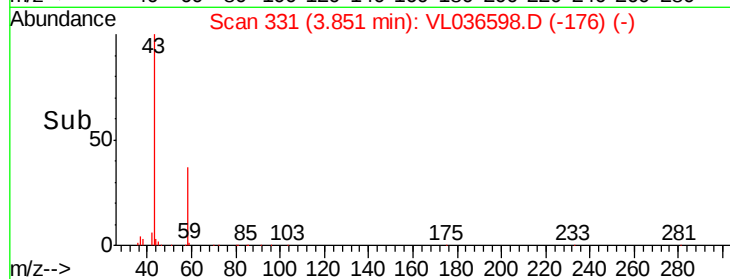
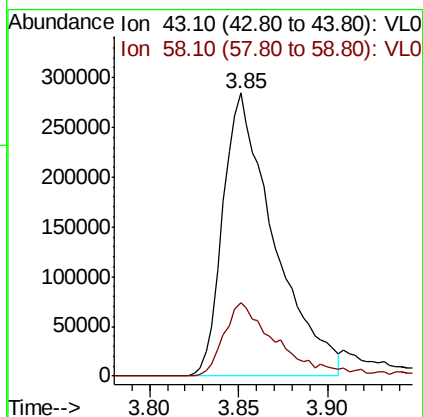
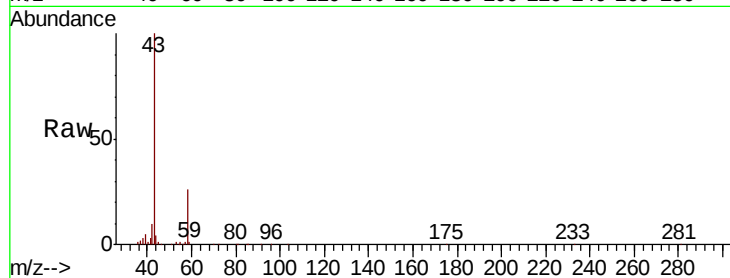




#15
Acetone
Concen: 4.020 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

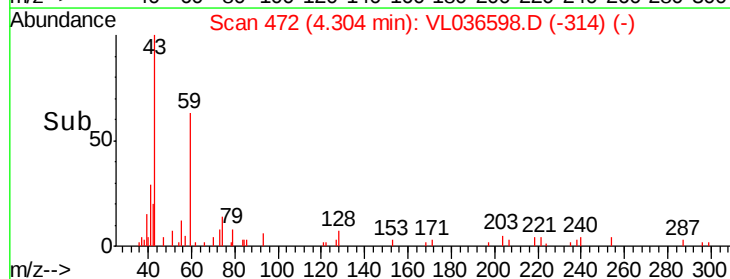
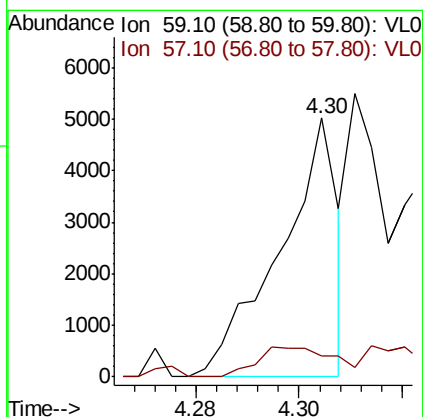
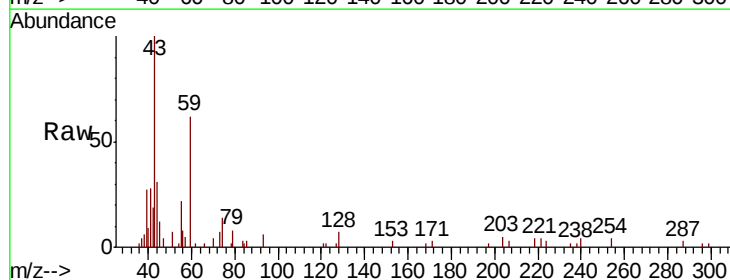
Instrument :
MSVOA_L
ClientSampleId :

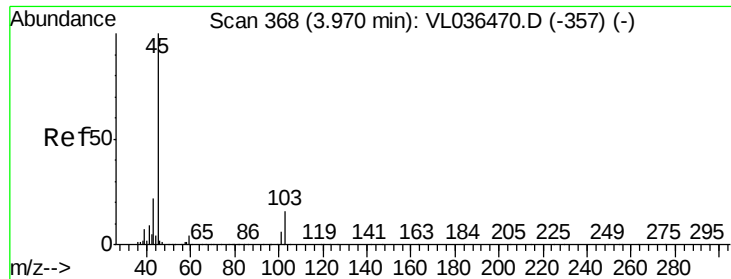
Tot Ion: 43 Resp: 566255
Ion Ratio Lower Upper
43 100
58 28.2 21.2 31.8



#17
tert-Butyl alcohol
Concen: 0.032 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion: 59 Resp: 3903
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.240 ppbv

RT: 3.97 min Scan# 368

Delta R.T. -0.00 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

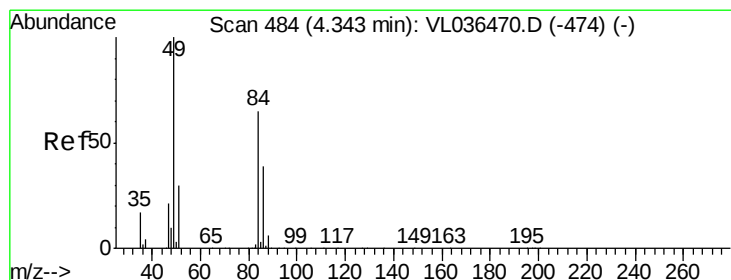
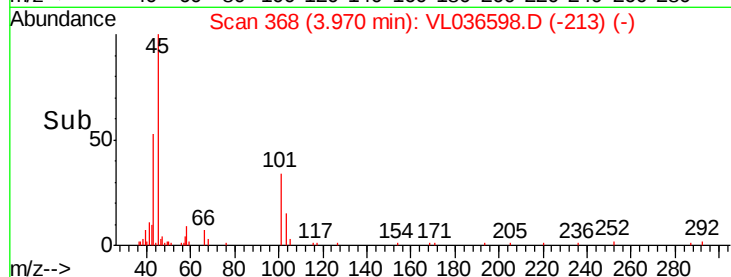
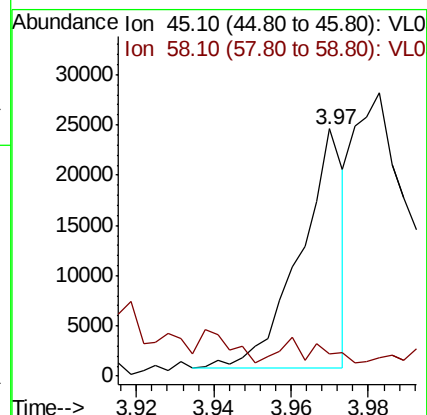
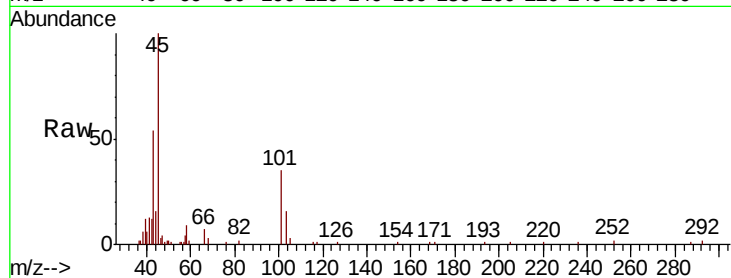
ClientSampleId :

Tot Ion: 45 Resp: 18625

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 7.709 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Tgt Ion: 84 Resp: 508399

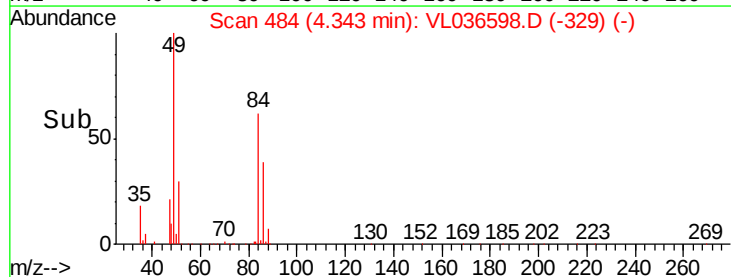
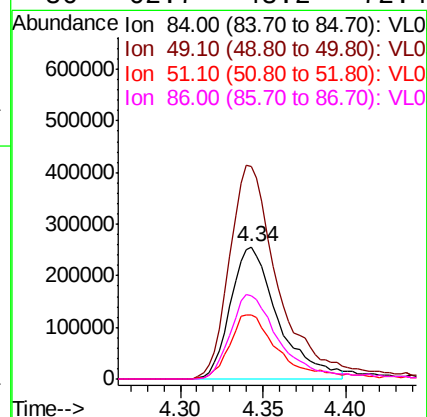
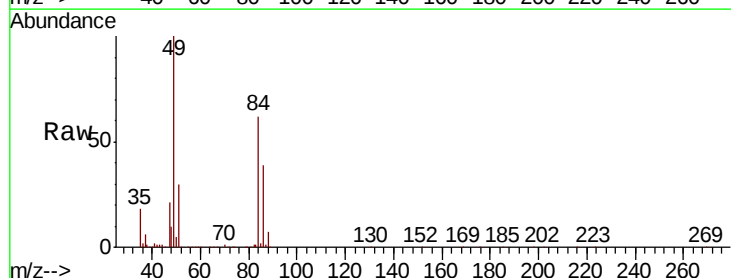
Ion Ratio Lower Upper

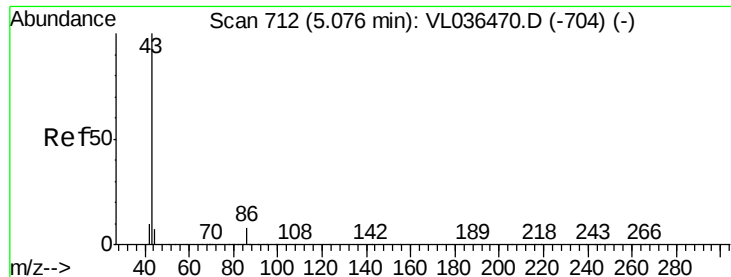
84 100

49 161.1 122.9 184.3

51 48.4 36.9 55.3

86 62.7 48.2 72.4

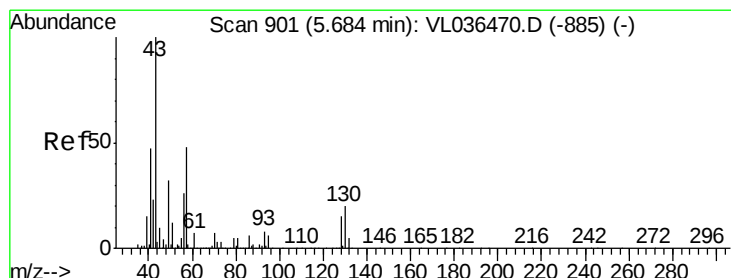
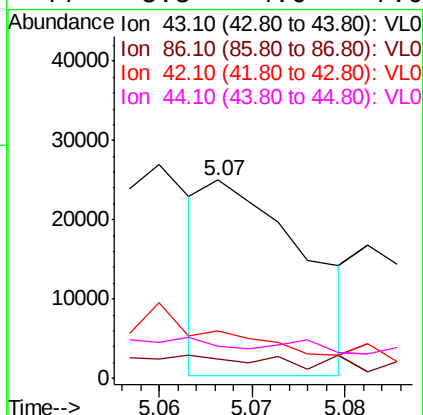
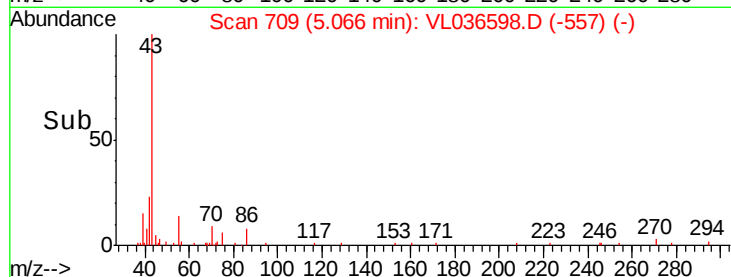
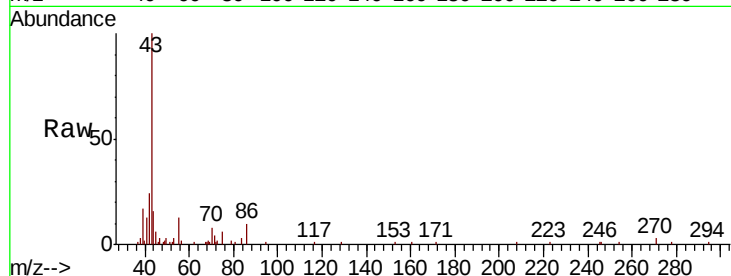




#23
 Vinyl Acetate
 Concen: 0.076 ppbv
 RT: 5.07 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

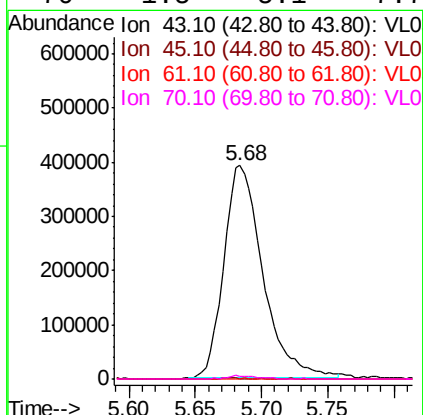
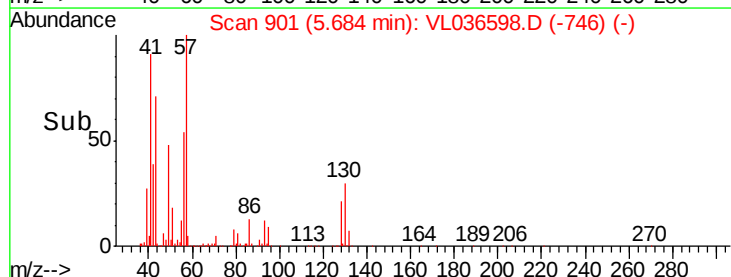
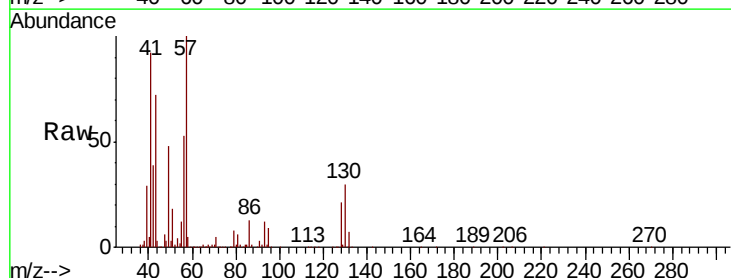
Instrument :
 MSVOA_L
 ClientSampleId :

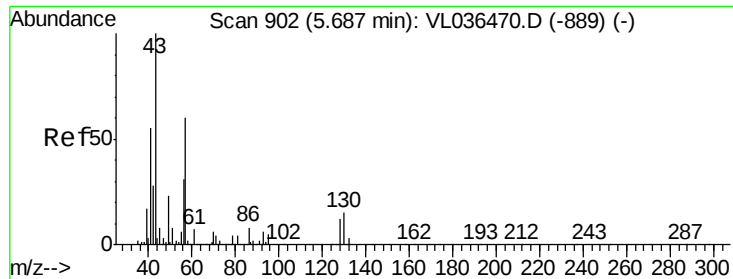
Tot Ion:	43	Resp:	18223
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#
42	27.9	8.5	12.7#
44	8.3	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 2.399 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Tgt Ion:	43	Resp:	803503
Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.9	11.9#
61	0.3	7.4	11.2#
70	1.5	5.1	7.7#

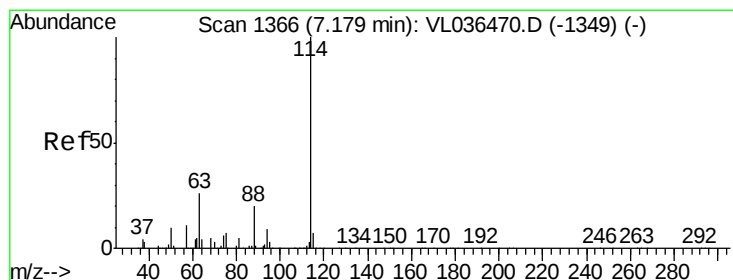
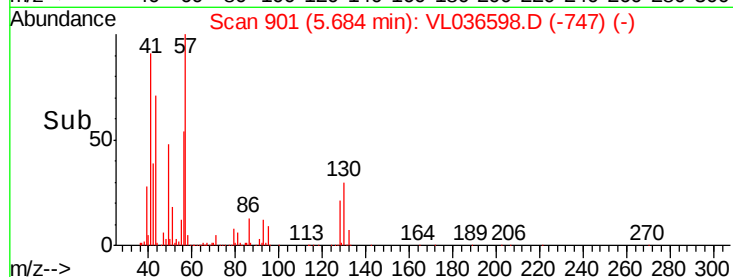
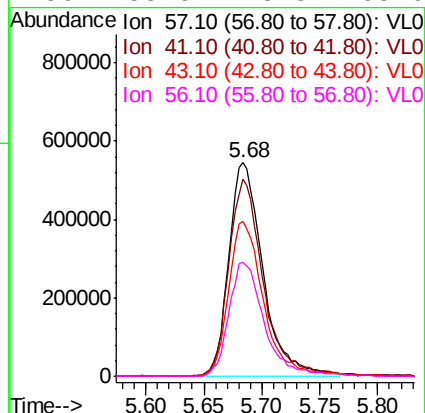
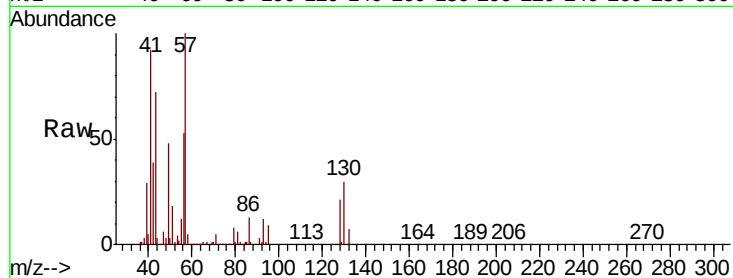




#26
Hexane
Concen: 7.132 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

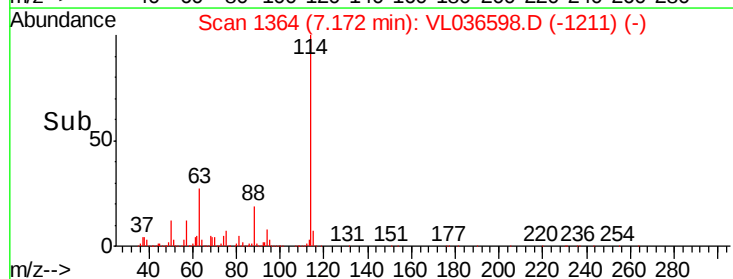
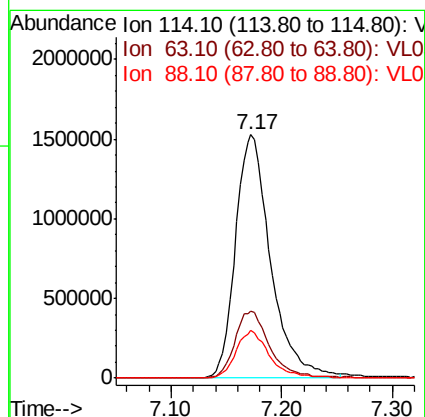
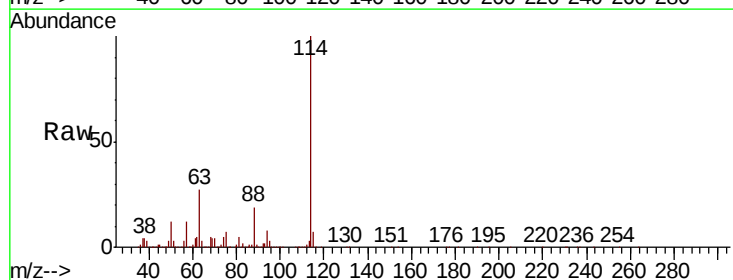
Instrument :
MSVOA_L
ClientSampleId :

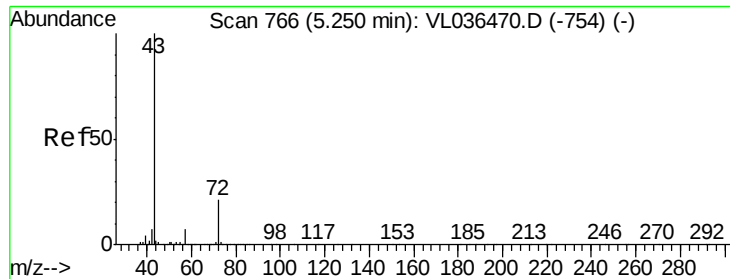
Tot Ion: 57 Resp: 1108316
Ion Ratio Lower Upper
57 100
41 94.2 77.2 115.8
43 74.8 173.8 260.6#
56 55.6 43.8 65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion: 114 Resp: 3379158
Ion Ratio Lower Upper
114 100
63 27.9 22.4 33.6
88 18.9 15.4 23.0

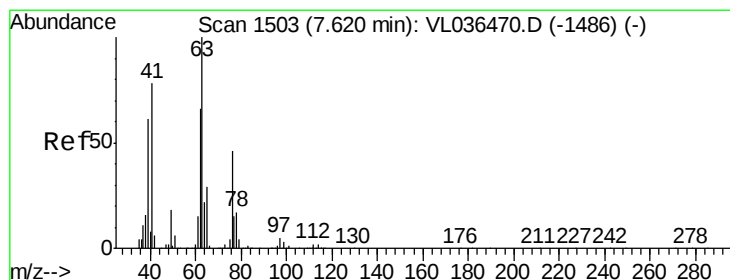
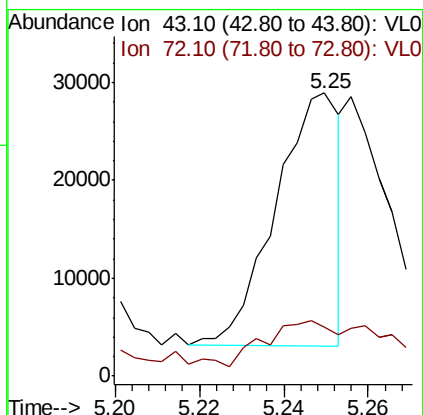
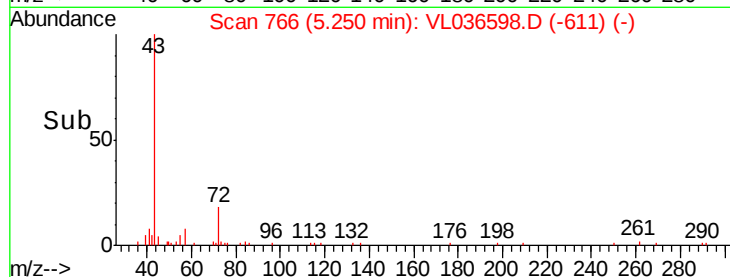
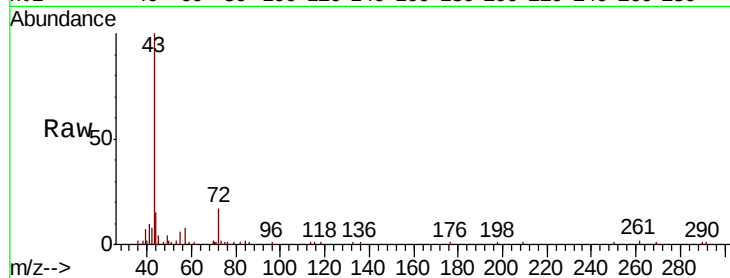




#34
2-Butanone
Concen: 0.166 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

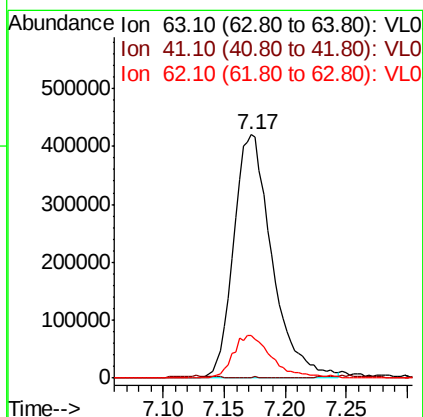
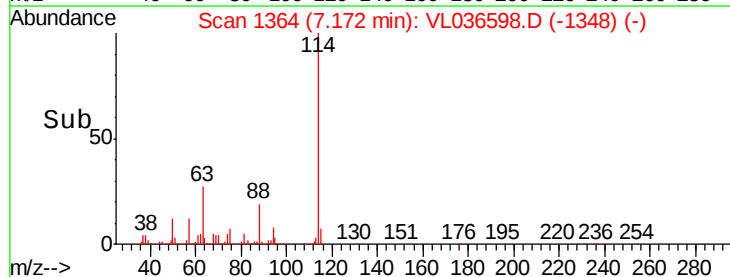
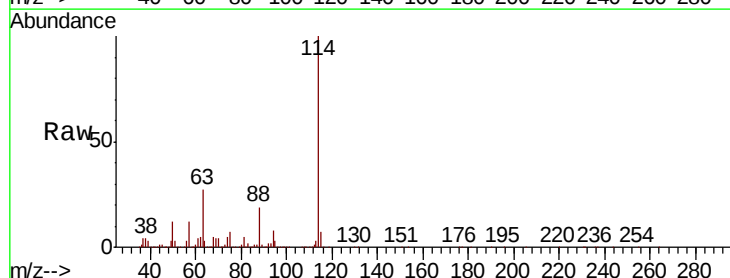
Instrument :
MSVOA_L
ClientSampleId :

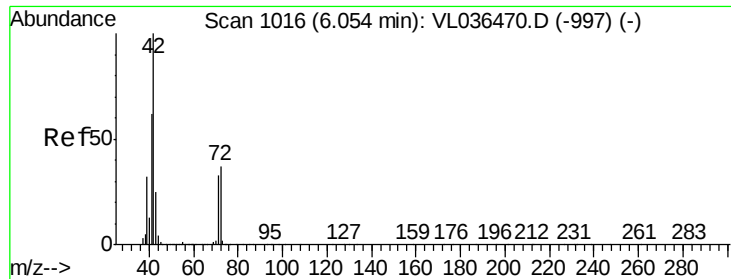
Tot Ion: 43 Resp: 27329
Ion Ratio Lower Upper
43 100
72 56.4 17.0 25.6#



#39
1,2-Dichloropropane
Concen: 7.259 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.45 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion: 63 Resp: 917677
Ion Ratio Lower Upper
63 100
41 0.0 62.4 93.6#
62 17.7 52.8 79.2#





#41

Tetrahydrofuran

Concen: 5.907 ppbv

RT: 5.68 min Scan# 900

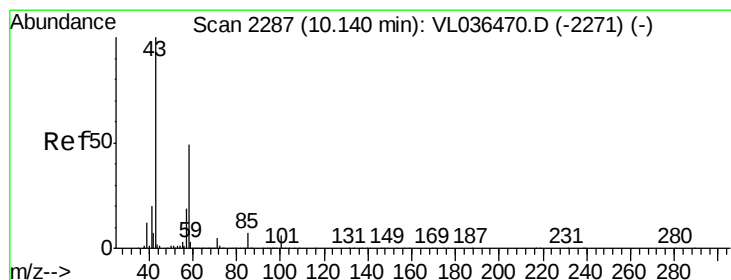
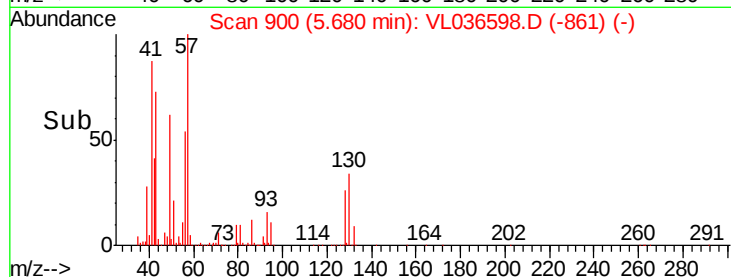
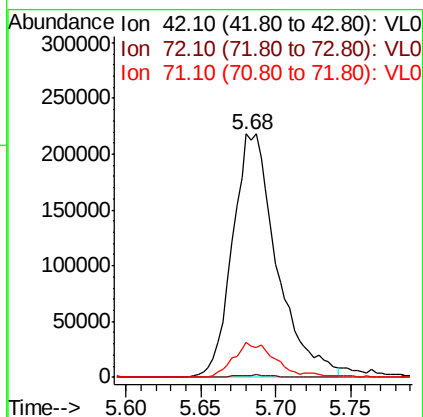
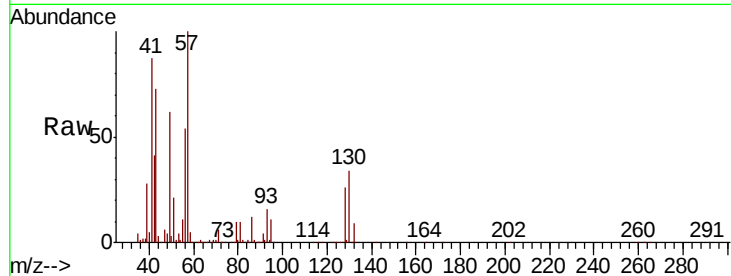
Delta R.T. -0.37 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	42	Resp:	449215
Ion	Ratio	Lower	Upper
42	100		
72	1.0	27.6	41.4#
71	14.2	27.0	40.4#



#51

2-Hexanone

Concen: 0.029 ppbv

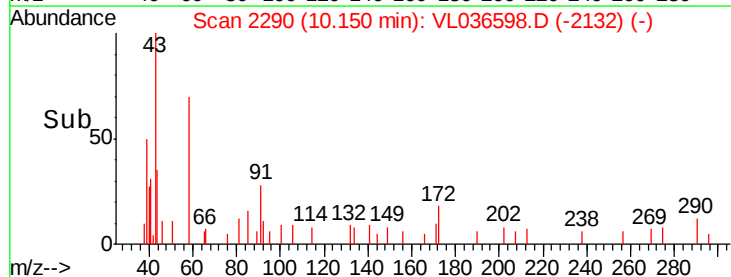
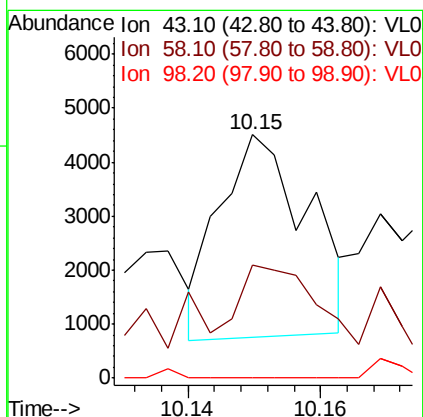
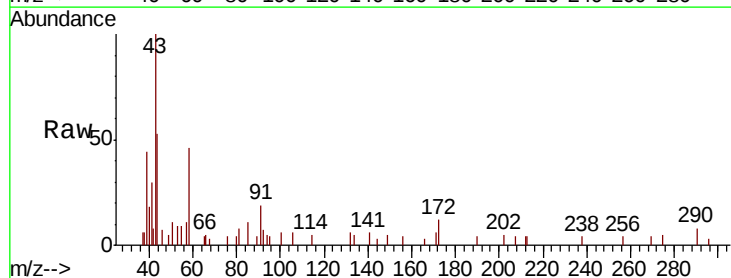
RT: 10.15 min Scan# 2290

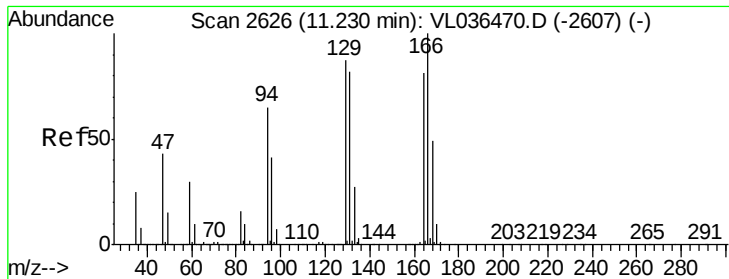
Delta R.T. 0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Tgt Ion:	43	Resp:	3491
Ion	Ratio	Lower	Upper
43	100		
58	133.3	37.7	56.5#
98	9.6	0.2	0.2#





#52

Tetrachloroethene

Concen: 0.038 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 4367

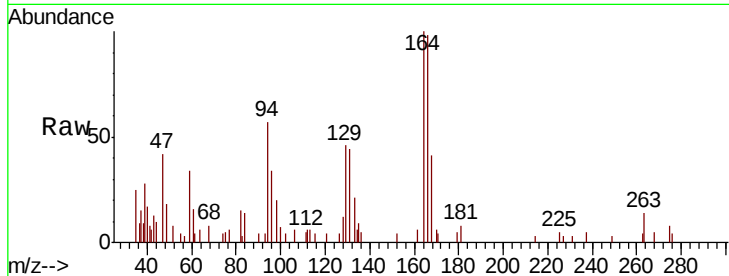
Ion Ratio Lower Upper

164 100

166 93.8 98.3 147.5#

129 0.0 85.8 128.8#

131 42.3 80.9 121.3#

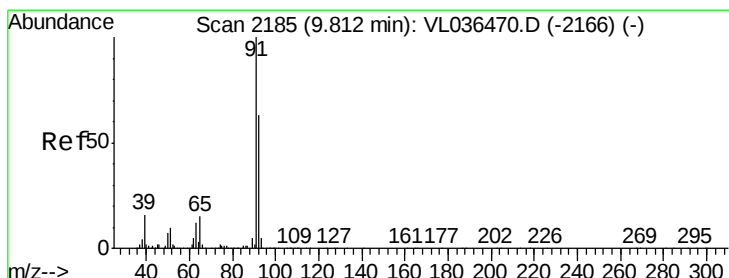
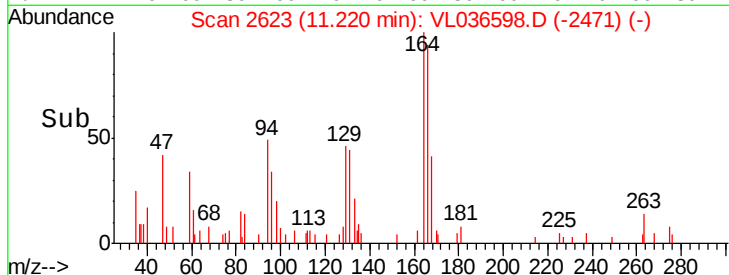
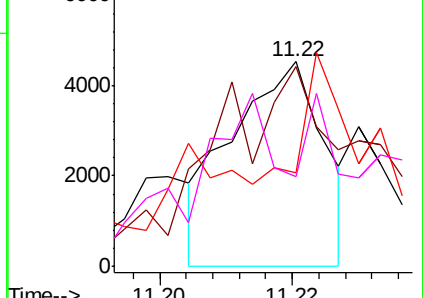


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 2.588 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036598.D

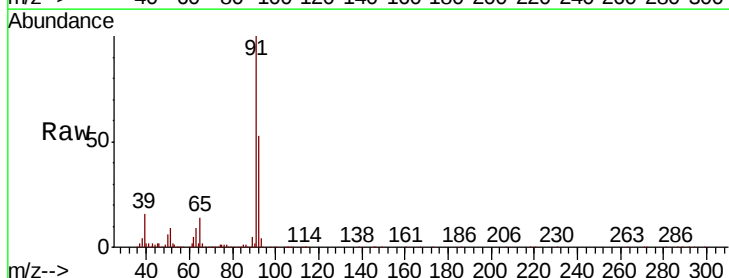
Acq: 31 Mar 2021 12:23

Tgt Ion: 91 Resp: 859022

Ion Ratio Lower Upper

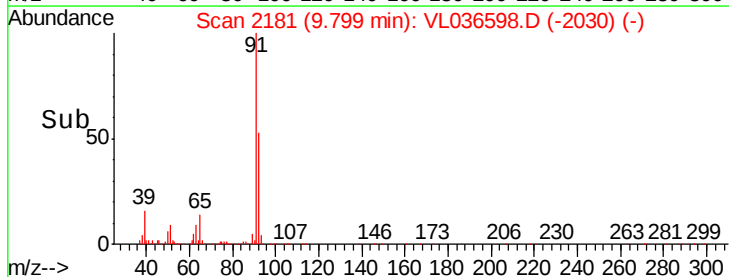
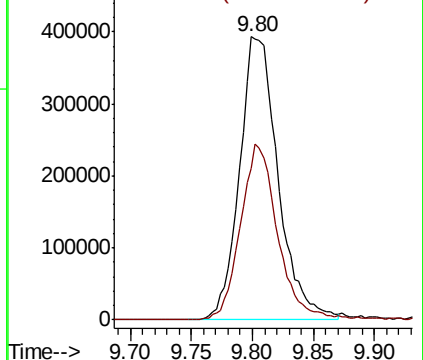
91 100

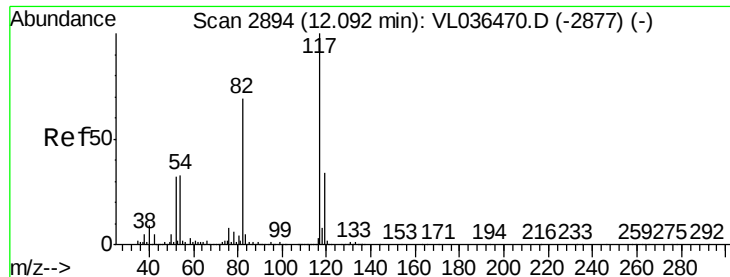
92 60.5 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

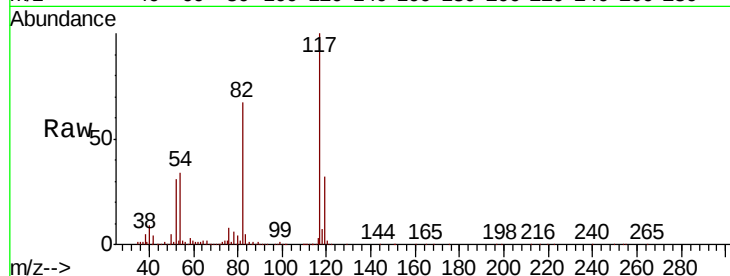




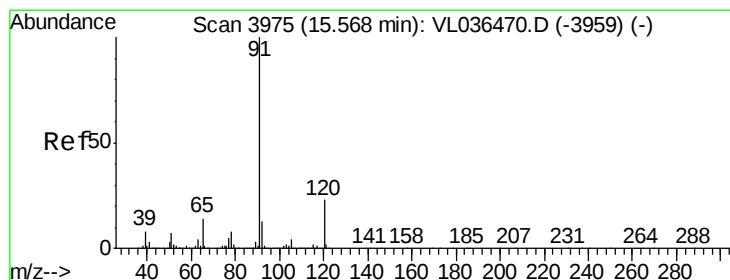
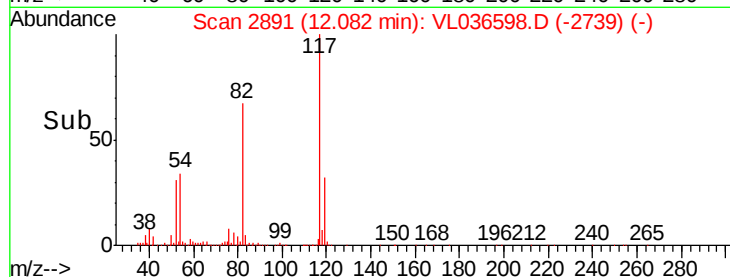
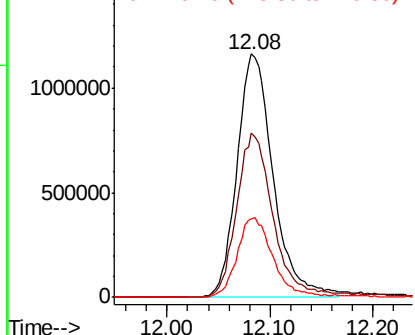
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2838850
Ion Ratio Lower Upper
117 100
82 70.3 57.4 86.0
119 33.5 47.4 71.0#

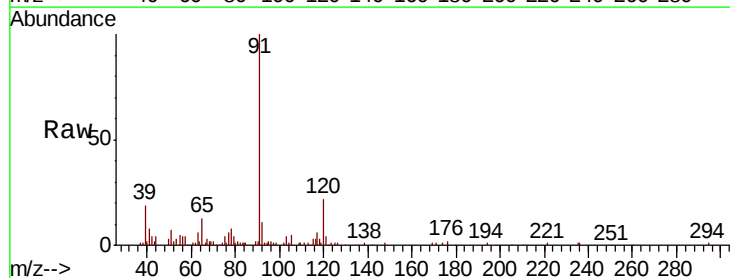


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

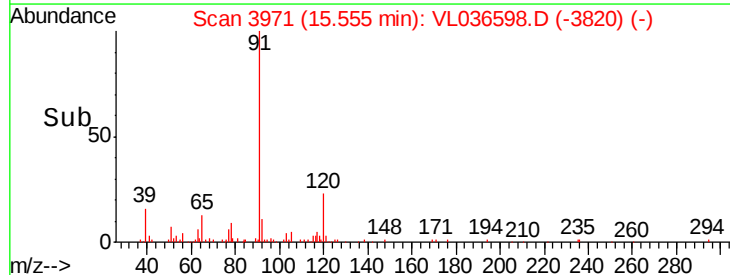
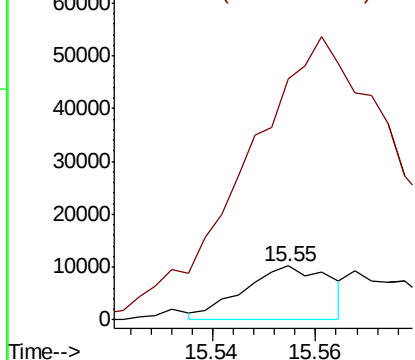


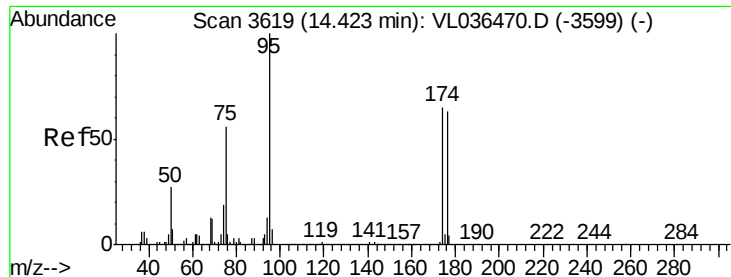
#64
n-propylbenzene
Concen: 0.102 ppbv
RT: 15.55 min Scan# 3971
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion:120 Resp: 11643
Ion Ratio Lower Upper
120 100
91 0.0 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0

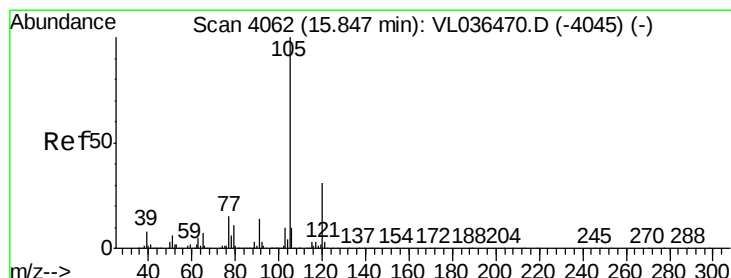
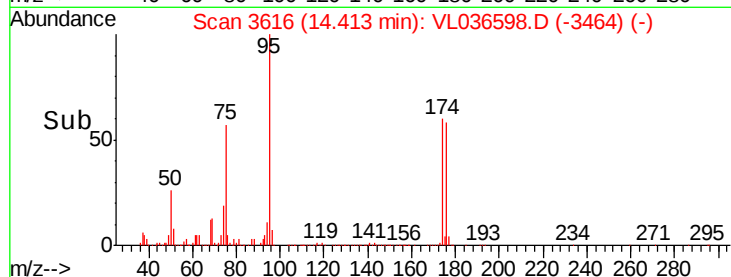
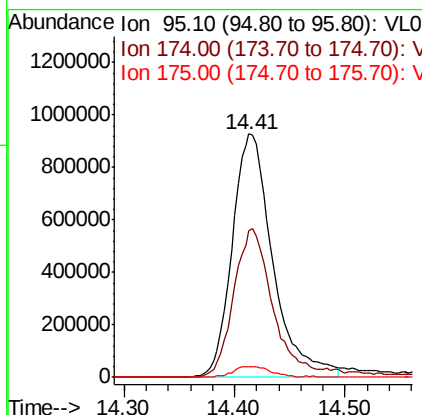
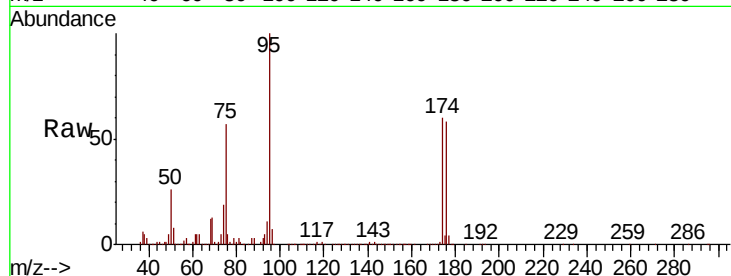




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.434 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

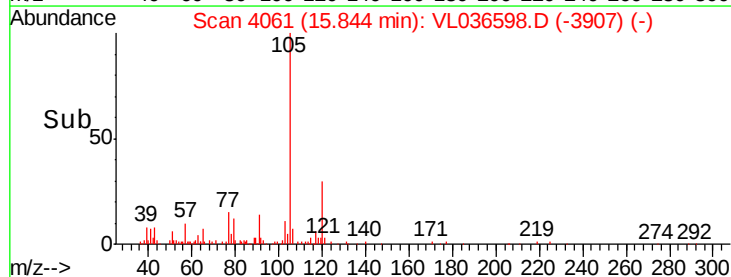
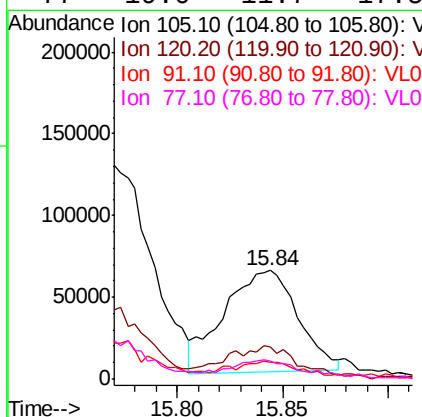
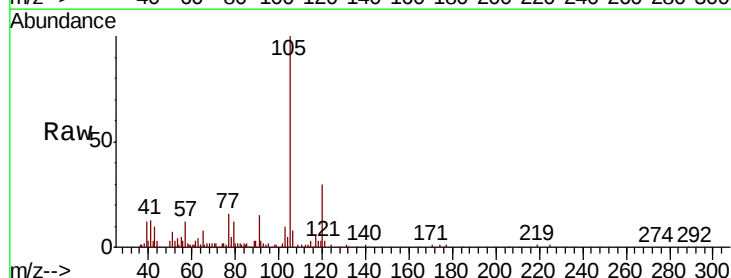
Instrument :
 MSVOA_L
 ClientSampleID :

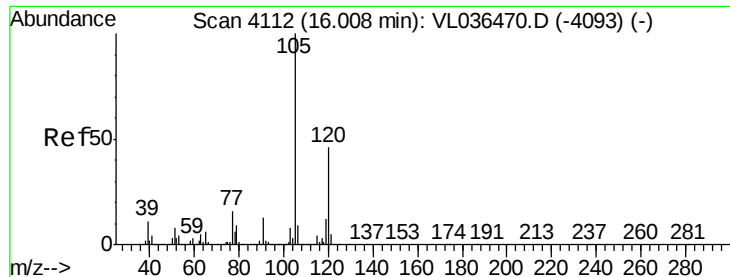
Tot Ion: 95 Resp: 2360881
 Ion Ratio Lower Upper
 95 100
 174 63.7 51.0 76.6
 175 4.6 3.9 5.9



#72
 4-Ethyltoluene
 Concen: 0.400 ppbv
 RT: 15.84 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Tgt Ion: 105 Resp: 152715
 Ion Ratio Lower Upper
 105 100
 120 33.9 24.0 36.0
 91 17.3 11.0 16.4#
 77 19.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.430 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

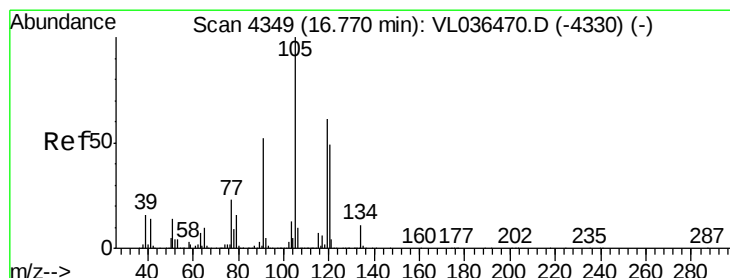
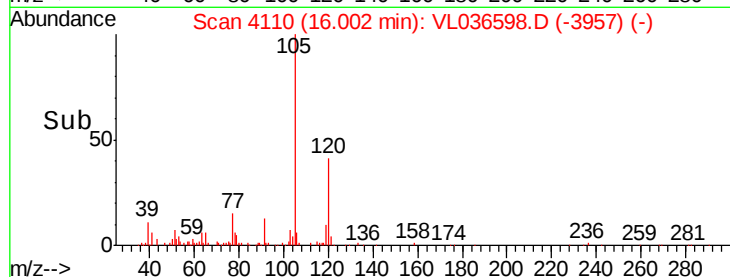
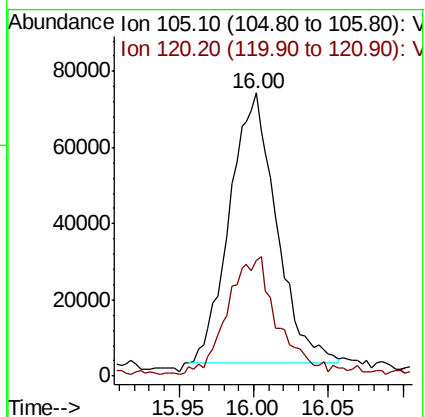
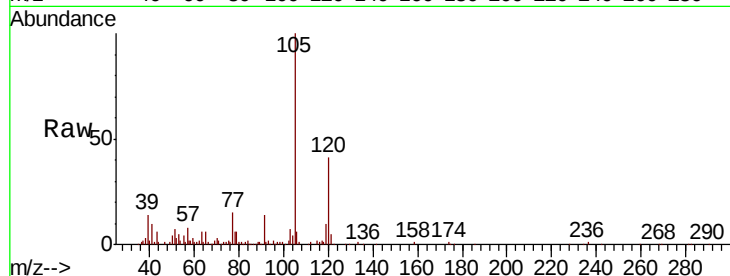
ClientSampled :

Tot Ion:105 Resp: 153050

Ion Ratio Lower Upper

105 100

120 40.0 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.755 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Tgt Ion:105 Resp: 287796

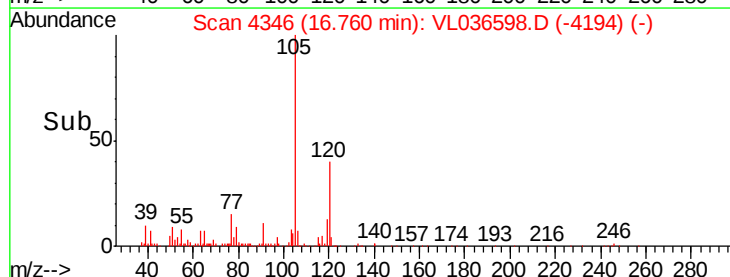
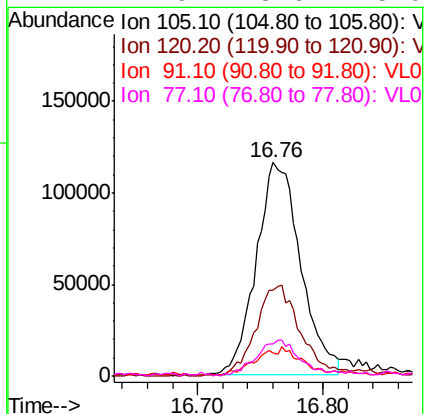
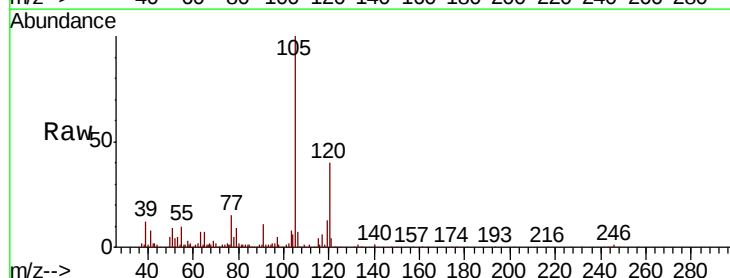
Ion Ratio Lower Upper

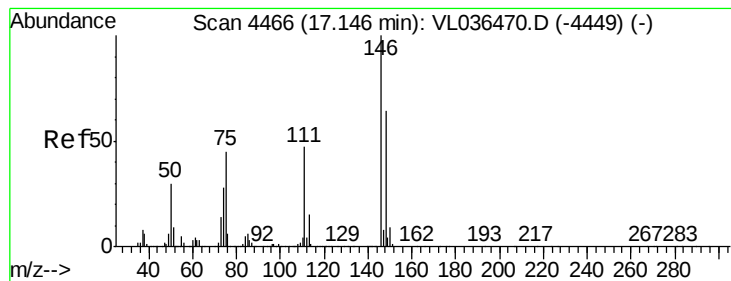
105 100

120 40.5 39.2 58.8

91 10.3 42.6 64.0#

77 14.9 18.6 28.0#





#76

1,4-Dichlorobenzene

Concen: 0.020 ppbv

RT: 17.14 min Scan# 4464

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

ClientSampleId :

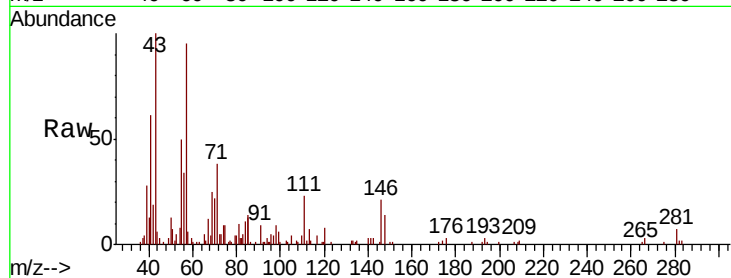
Tot Ion:146 Resp: 4277

Ion Ratio Lower Upper

146 100

111 275.9 24.3 72.8#

148 0.0 33.0 98.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

