

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037178.D
 Acq On : 16 Jun 2021 20:01
 Operator : SY/AP
 Sample : M2713-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 17 01:49:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1450318	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4132460	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3731786	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2769123	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

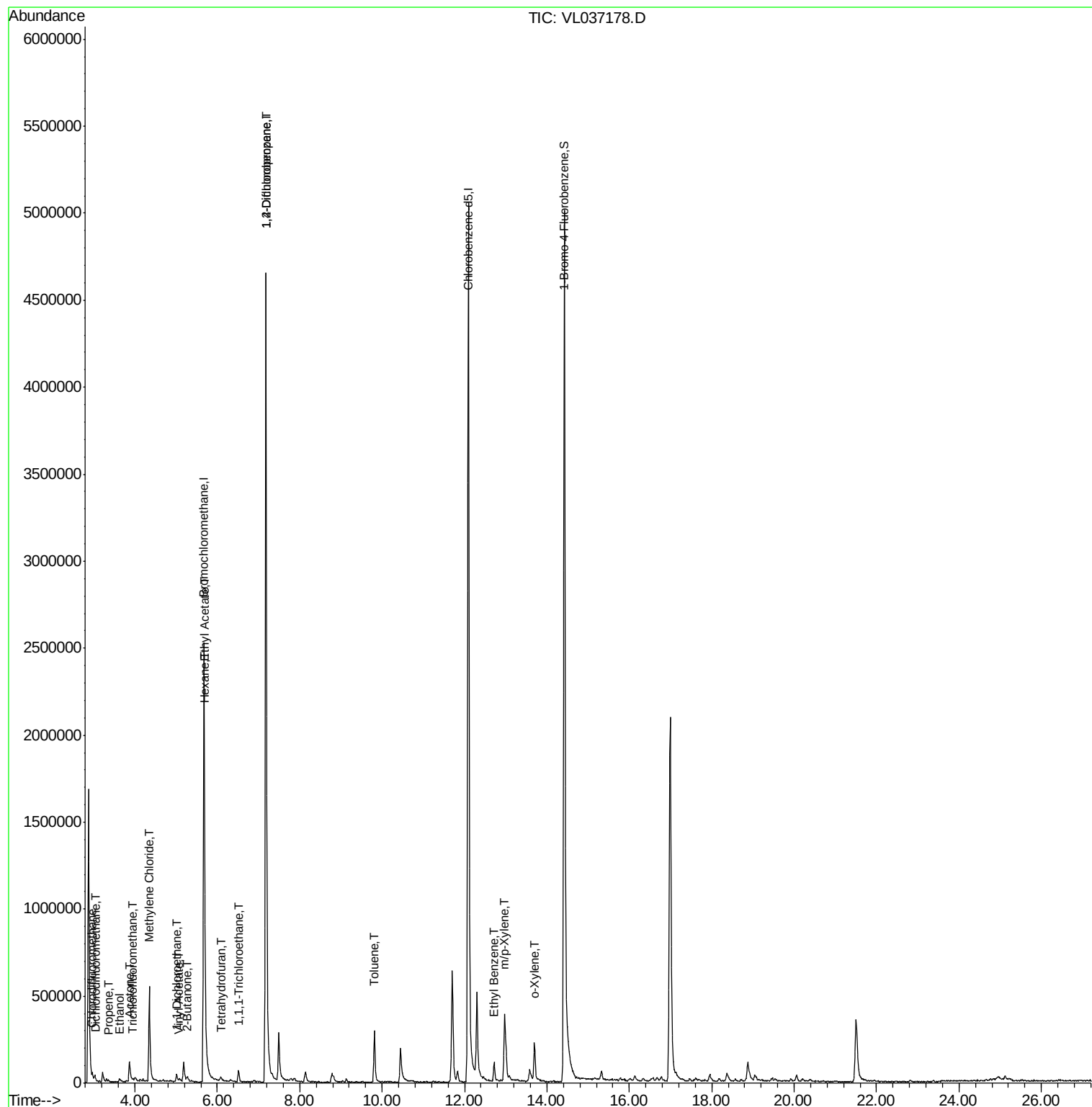
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	11448	0.045	ppbv 100
3) Chlorodifluoromethane	2.96	51	45834	0.163	ppbv # 70
9) Propene	3.35	41	3027	0.034	ppbv 88
11) Trichlorofluoromethane	3.96	101	6918	0.026	ppbv # 62
13) Ethanol	3.62	45	7146	0.512	ppbv # 7
15) Acetone	3.86	43	145781	0.891	ppbv # 57
20) Methylene Chloride	4.35	84	248385	2.537	ppbv 97
23) Vinyl Acetate	5.07	43	5575	0.024	ppbv # 89
24) 1,1-Dichloroethane	5.02	63	19980	0.106	ppbv # 91
25) Ethyl Acetate	5.69	43	54446	0.154	ppbv # 75
26) Hexane	5.69	57	130760	0.731	ppbv # 48
32) 1,1,1-Trichloroethane	6.51	97	40755	0.138	ppbv 91
34) 2-Butanone	5.27	43	19278	0.120	ppbv # 52
39) 1,2-Dichloropropane	7.18	63	983960	7.924	ppbv # 23
41) Tetrahydrofuran	6.08	42	4586	0.061	ppbv # 35
53) Toluene	9.81	91	251756	0.631	ppbv 98
58) Ethyl Benzene	12.72	91	92854	0.181	ppbv 95
59) m/p-Xylene	12.97	91	425916	0.978	ppbv 97
60) o-Xylene	13.70	91	170753	0.412	ppbv 98

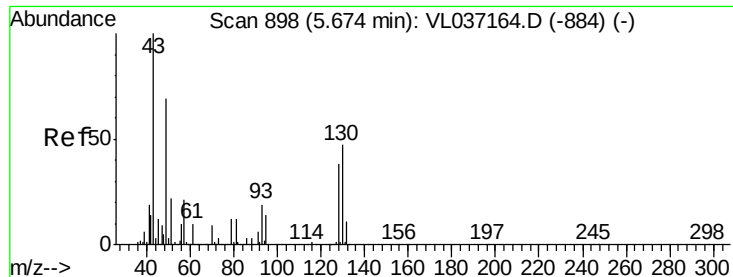
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061621\
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jun 17 01:49:44 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration

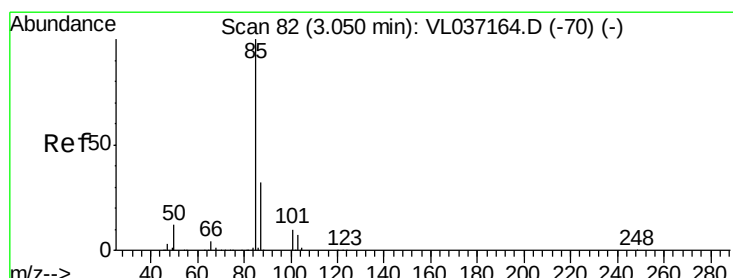
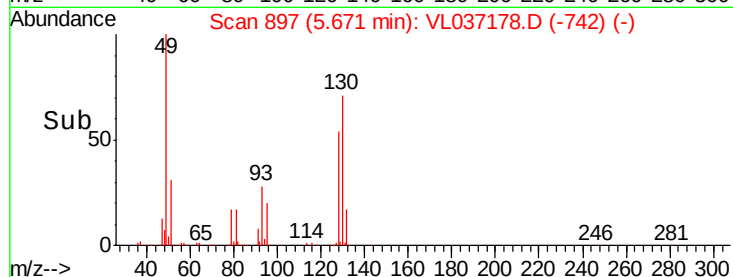
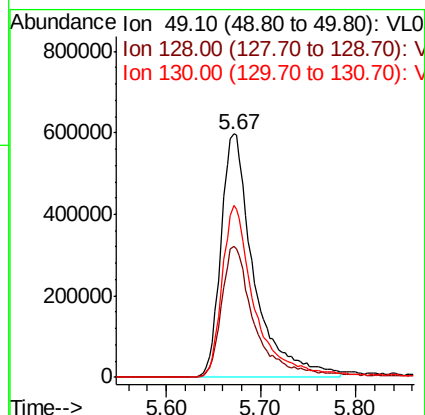
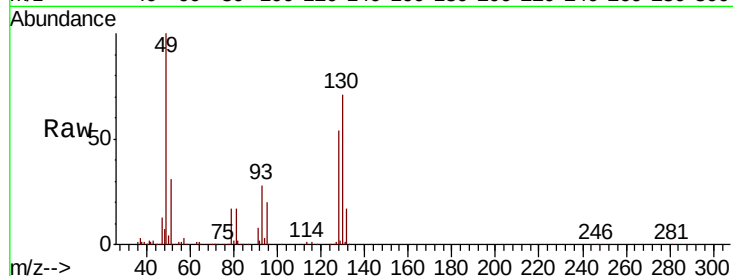




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. -0.00 min
 Lab File: VL037178.D
 Acq: 16 Jun 2021 20:01

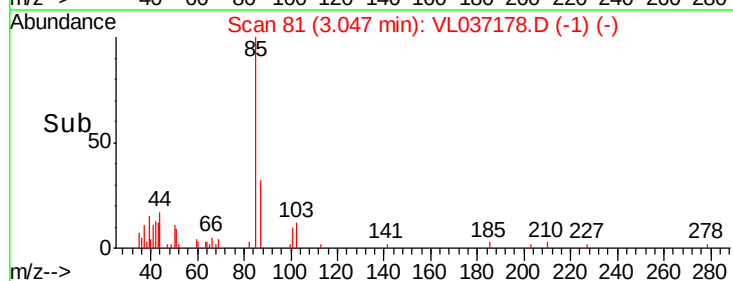
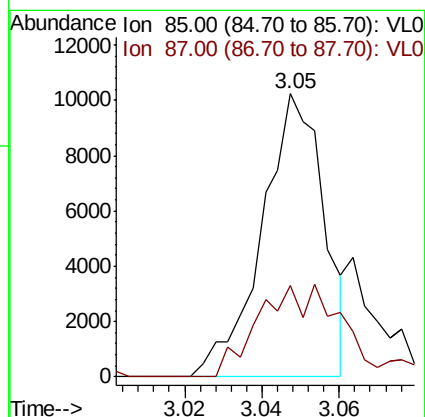
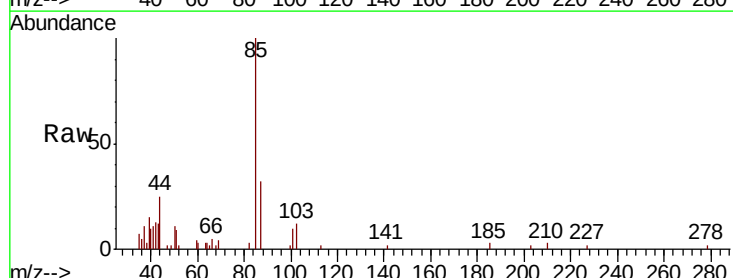
Instrument :
 MSVOA_L
 ClientSampleId :

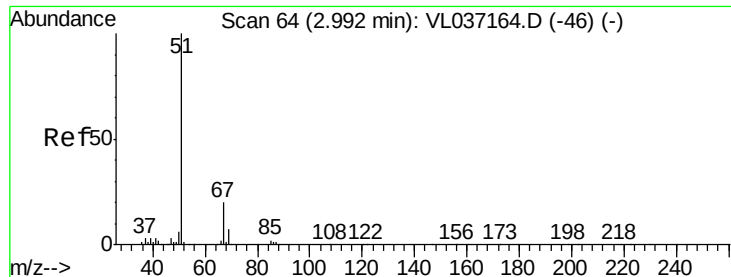
Tot Ion: 49 Resp: 1450318
 Ion Ratio Lower Upper
 49 100
 128 55.6 29.3 88.0
 130 72.4 35.9 107.8



#2
 Dichlorodifluoromethane
 Concen: 0.045 ppbv
 RT: 3.05 min Scan# 81
 Delta R.T. -0.00 min
 Lab File: VL037178.D
 Acq: 16 Jun 2021 20:01

Tgt Ion: 85 Resp: 11448
 Ion Ratio Lower Upper
 85 100
 87 32.3 25.8 38.6





#3

Chlorodifluoromethane

Concen: 0.163 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.03 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :

MSVOA_L

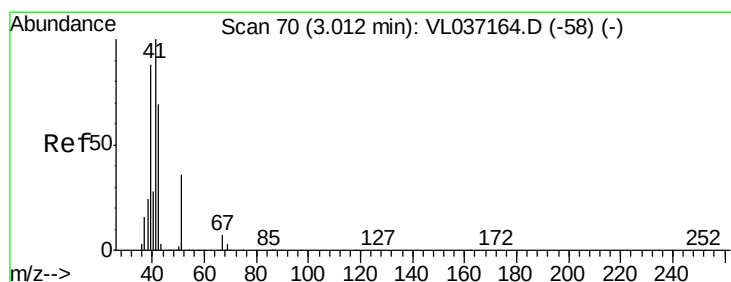
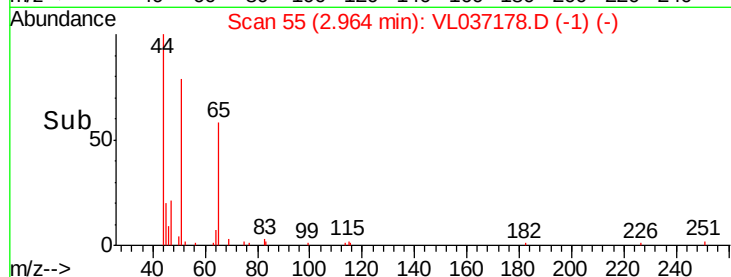
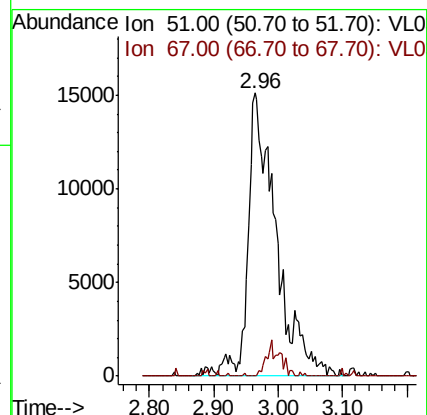
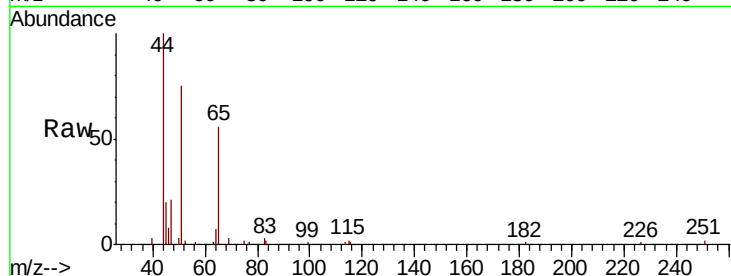
ClientSampleId :

Tot Ion: 51 Resp: 45834

Ion Ratio Lower Upper

51 100

67 6.0 15.8 23.6#



#9

Propene

Concen: 0.034 ppbv

RT: 3.35 min Scan# 176

Delta R.T. 0.34 min

Lab File: VL037178.D

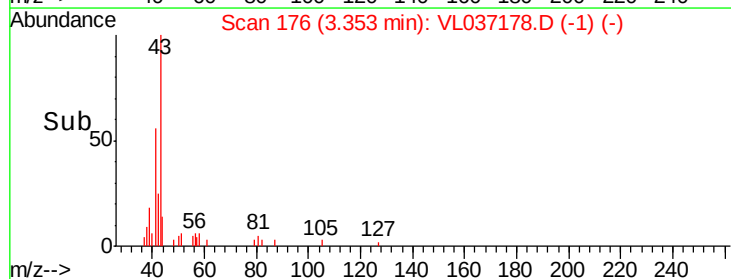
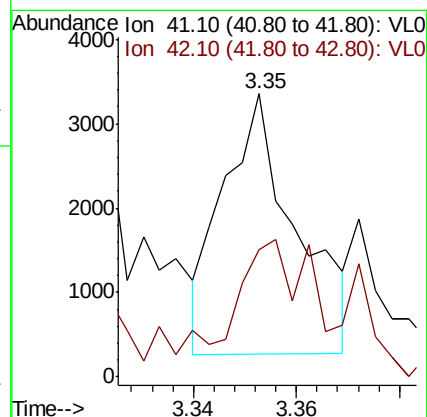
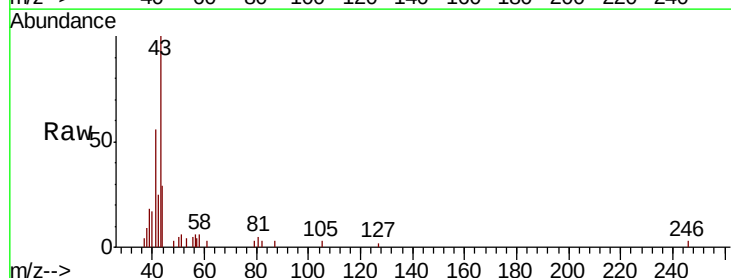
Acq: 16 Jun 2021 20:01

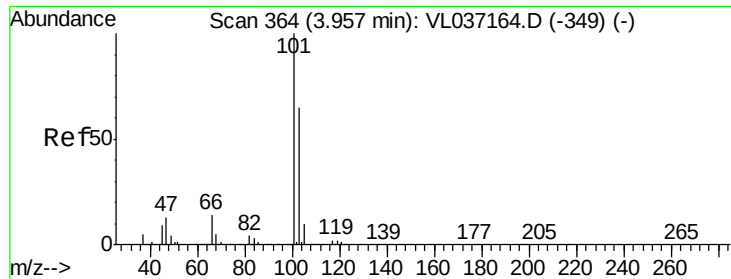
Tgt Ion: 41 Resp: 3027

Ion Ratio Lower Upper

41 100

42 77.6 54.5 81.7





#11

Trichlorofluoromethane

Concen: 0.026 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :

MSVOA_L

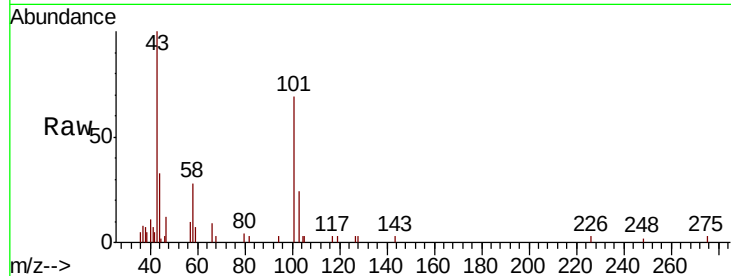
ClientSampleId :

Tot Ion:101 Resp: 6918

Ion Ratio Lower Upper

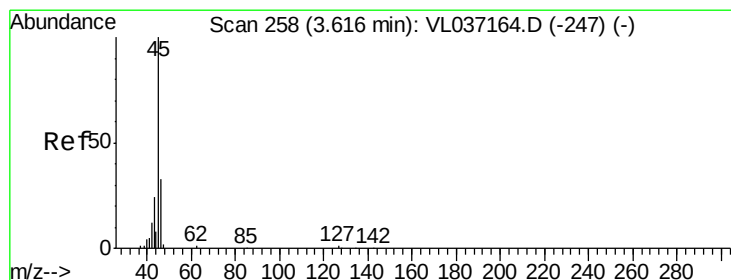
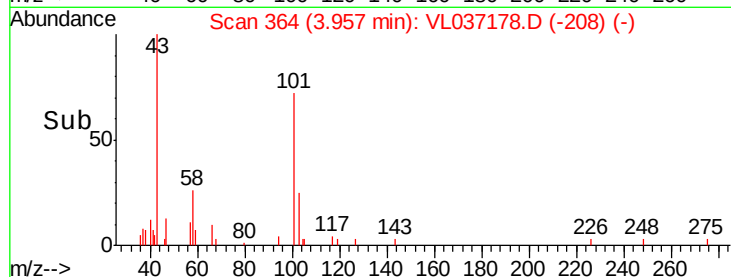
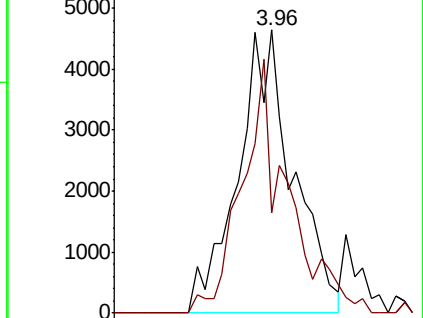
101 100

103 35.3 52.2 78.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.512 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.00 min

Lab File: VL037178.D

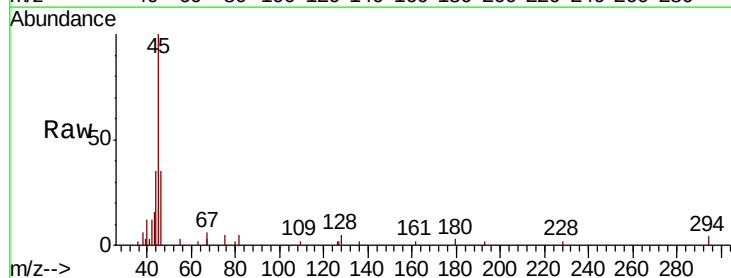
Acq: 16 Jun 2021 20:01

Tgt Ion: 45 Resp: 7146

Ion Ratio Lower Upper

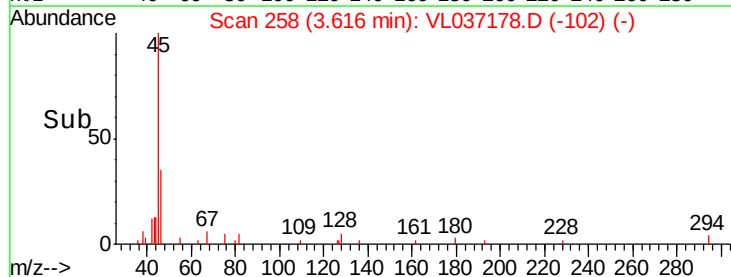
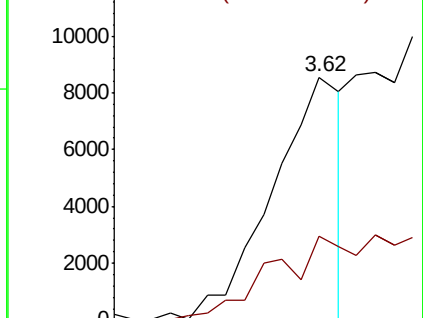
45 100

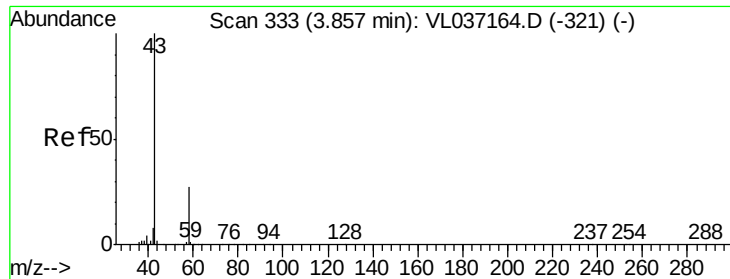
46 0.0 34.2 137.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

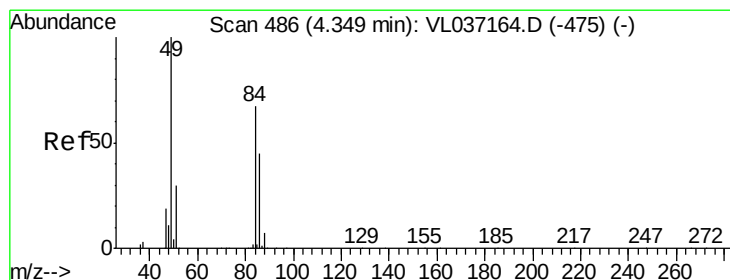
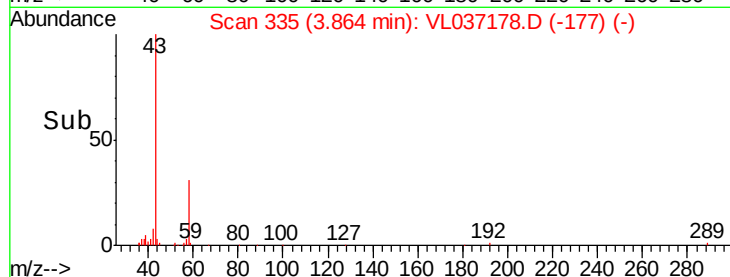
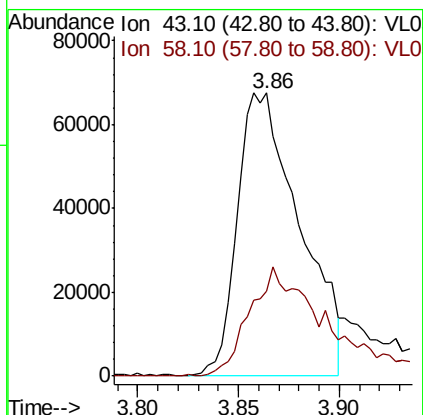
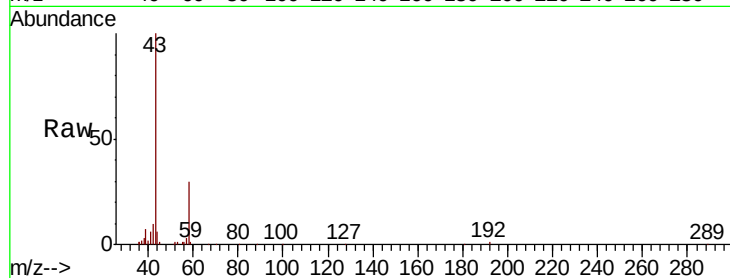




#15
Acetone
Concen: 0.891 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.01 min
Lab File: VL037178.D
Acq: 16 Jun 2021 20:01

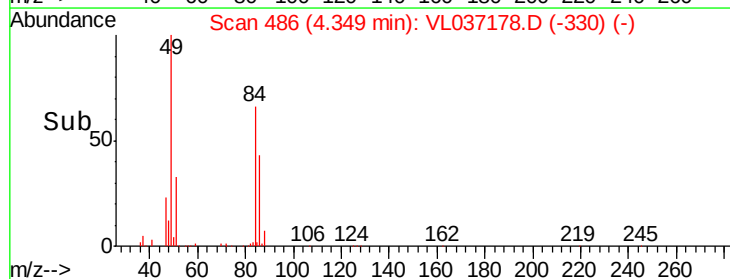
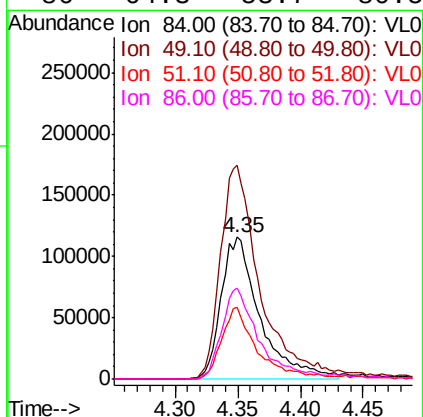
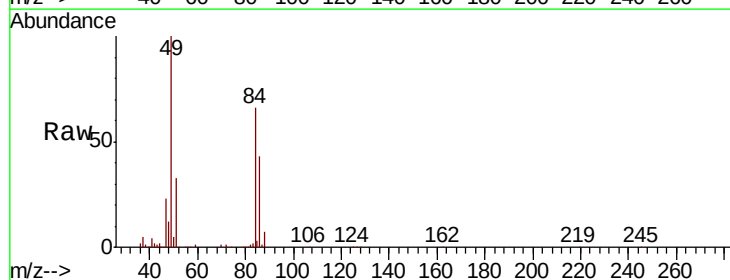
Instrument :
MSVOA_L
ClientSampleId :

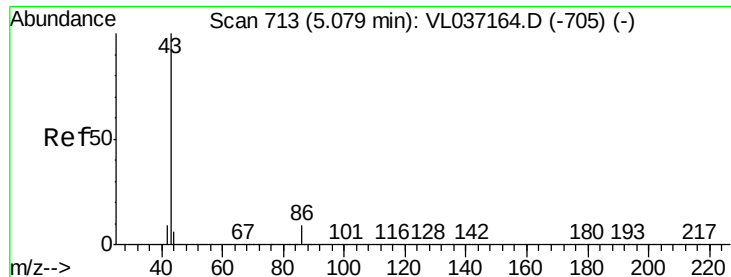
Tot Ion: 43 Resp: 145781
Ion Ratio Lower Upper
43 100
58 52.9 23.7 35.5#



#20
Methylene Chloride
Concen: 2.537 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL037178.D
Acq: 16 Jun 2021 20:01

Tgt Ion: 84 Resp: 248385
Ion Ratio Lower Upper
84 100
49 150.7 119.7 179.5
51 50.3 36.1 54.1
86 64.3 53.7 80.5





#23

Vinyl Acetate

Concen: 0.024 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.01 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 5575

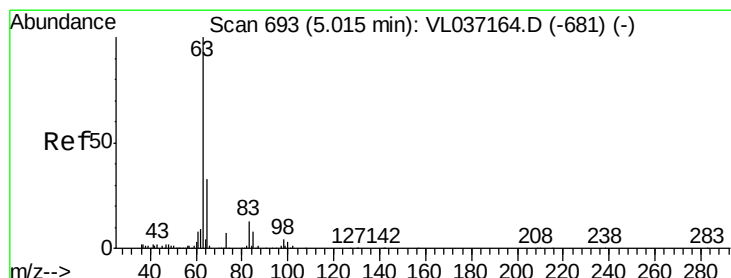
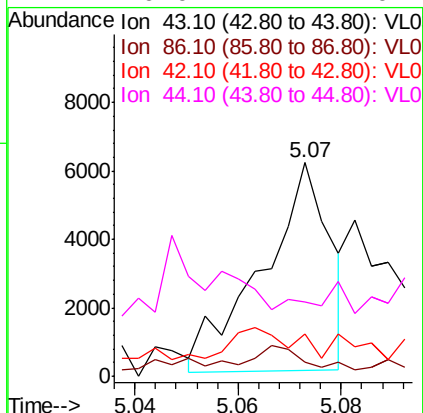
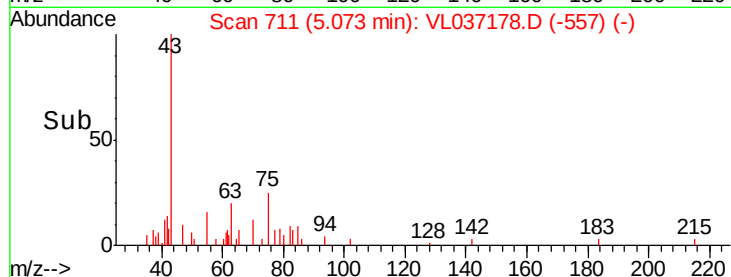
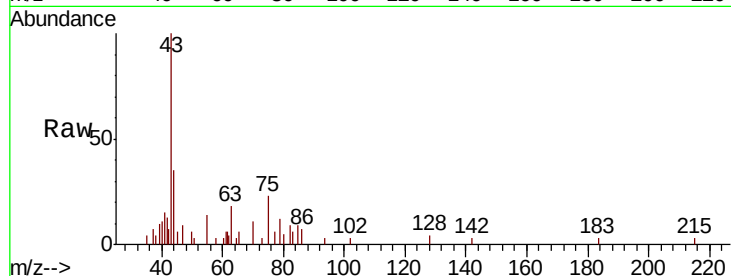
Ion Ratio Lower Upper

43 100

86 0.4 5.8 8.8#

42 10.8 8.2 12.2

44 0.0 4.2 6.4#



#24

1,1-Dichloroethane

Concen: 0.106 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

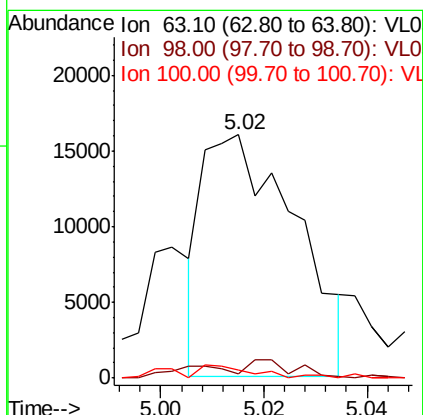
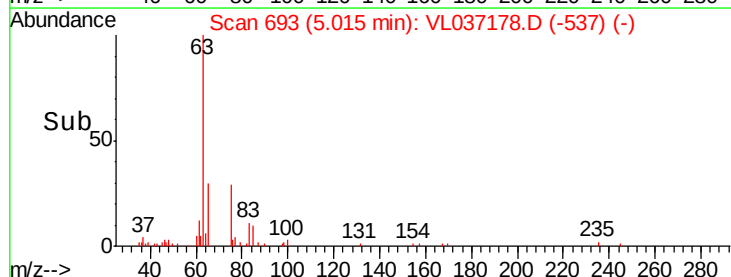
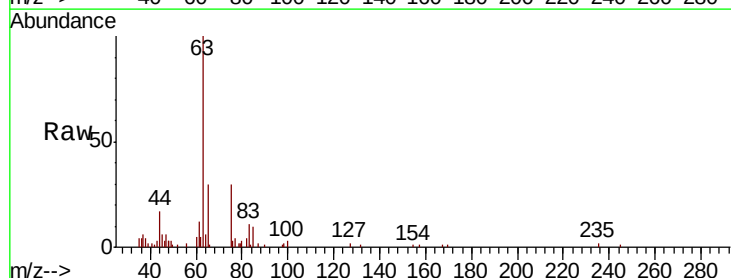
Tgt Ion: 63 Resp: 19980

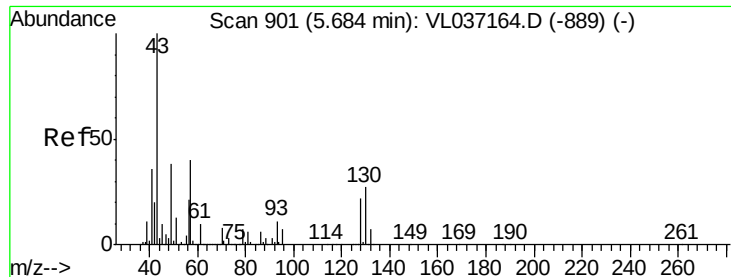
Ion Ratio Lower Upper

63 100

98 1.1 2.1 6.5#

100 5.1 1.4 4.0#





#25

Ethyl Acetate

Concen: 0.154 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 54446

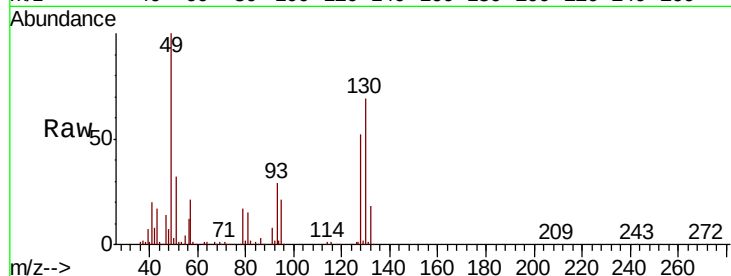
Ion Ratio Lower Upper

43 100

45 0.0 8.0 12.0#

61 0.0 8.1 12.1#

70 0.0 5.5 8.3#

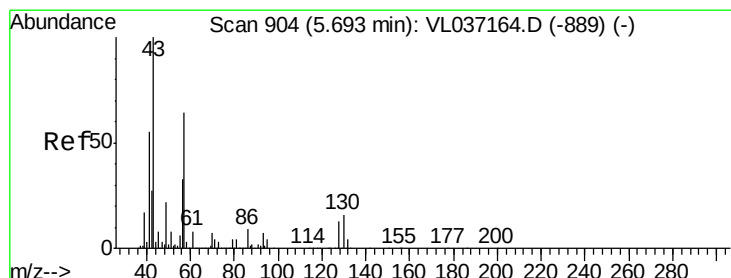
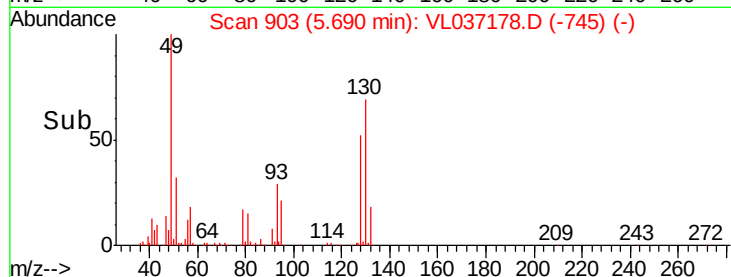
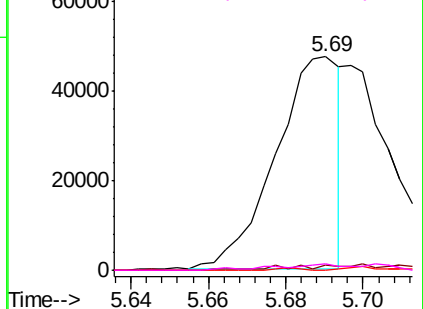


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.731 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.00 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Tgt Ion: 57 Resp: 130760

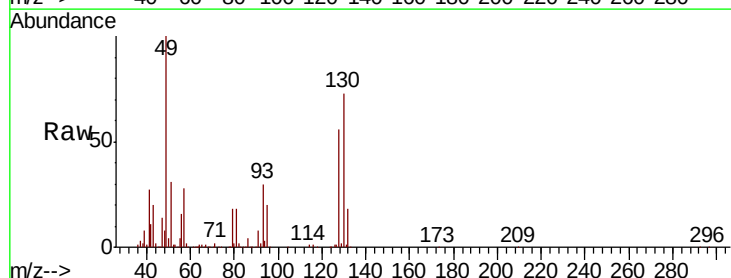
Ion Ratio Lower Upper

57 100

41 100.7 73.5 110.3

43 85.0 170.7 256.1#

56 57.1 42.4 63.6

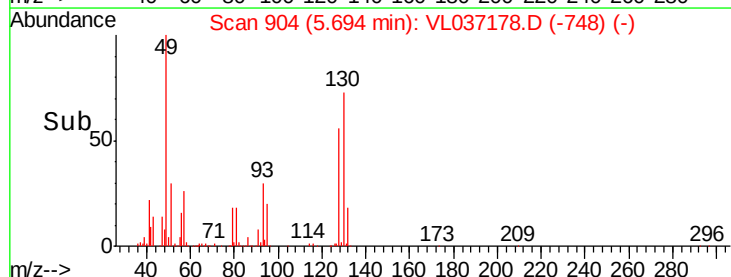
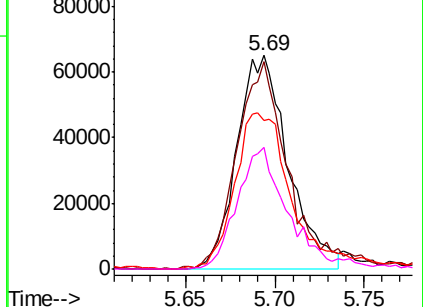


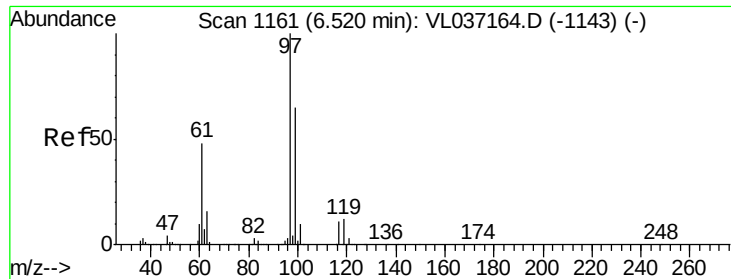
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

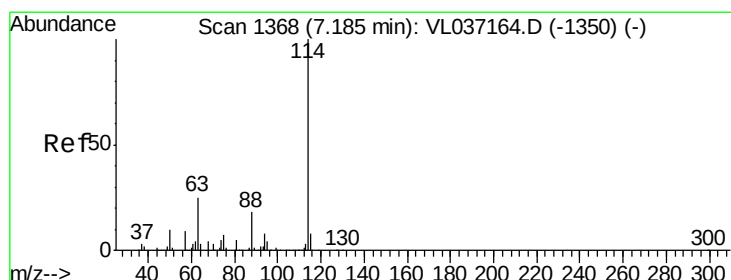
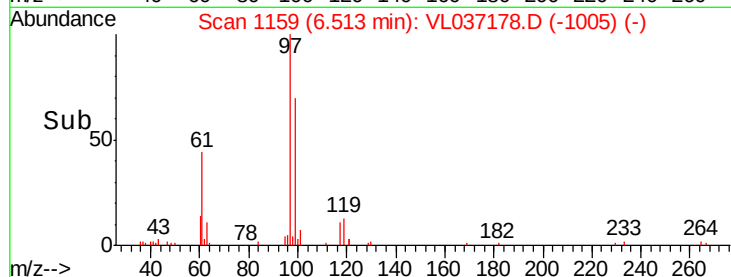
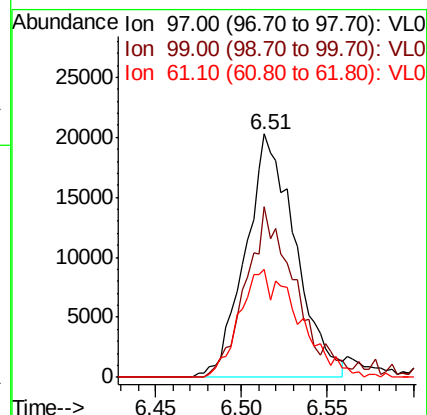
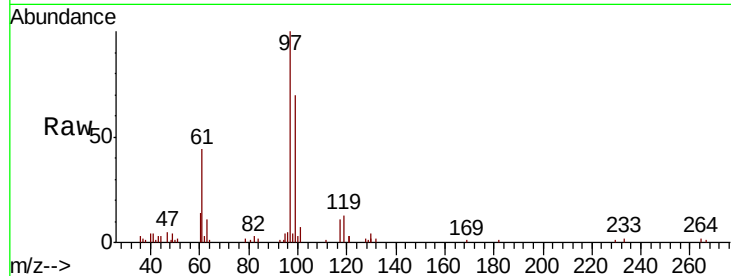




#32
 1,1,1-Trichloroethane
 Concen: 0.138 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.01 min
 Lab File: VL037178.D
 Acq: 16 Jun 2021 20:01

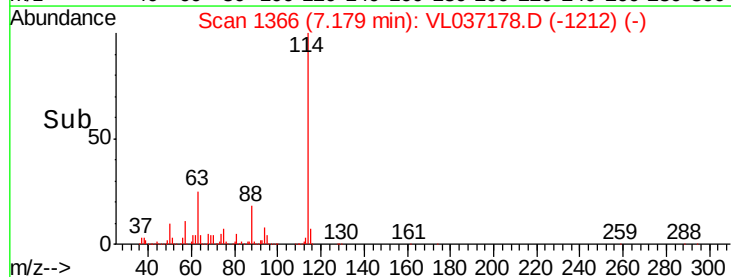
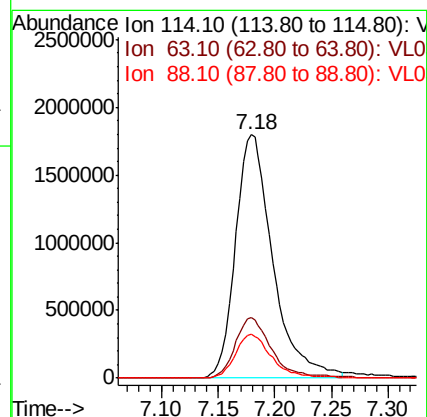
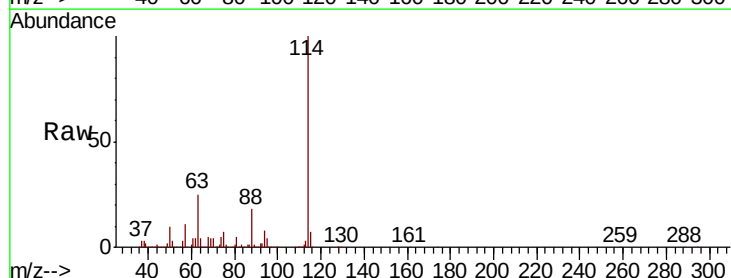
Instrument :
 MSVOA_L
 ClientSampled :

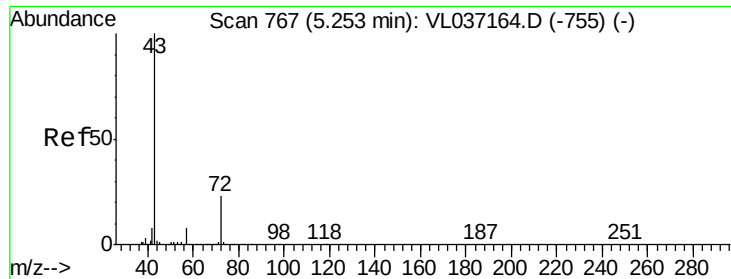
Tot Ion	97	Resp	40755
Ion	Ratio	Lower	Upper
97	100		
99	73.4	52.2	78.4
61	53.2	38.8	58.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL037178.D
 Acq: 16 Jun 2021 20:01

Tgt Ion	114	Resp	4132460
Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.6	29.4
88	18.0	14.2	21.2

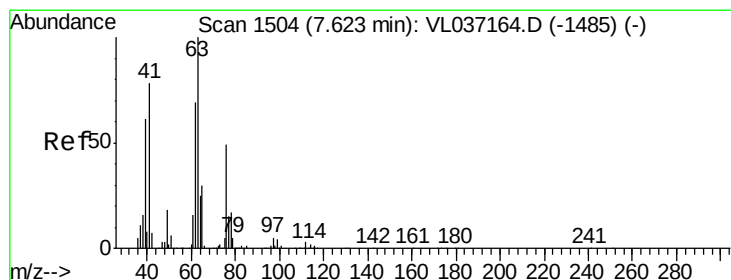
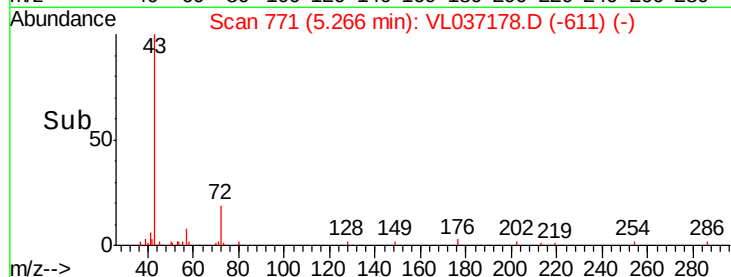
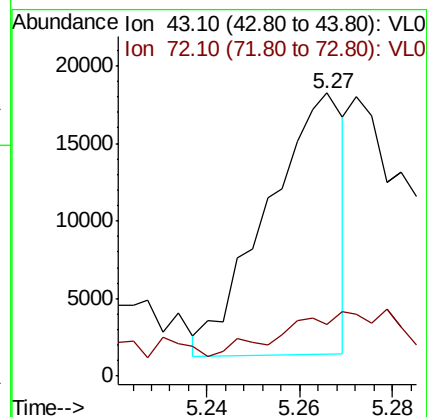
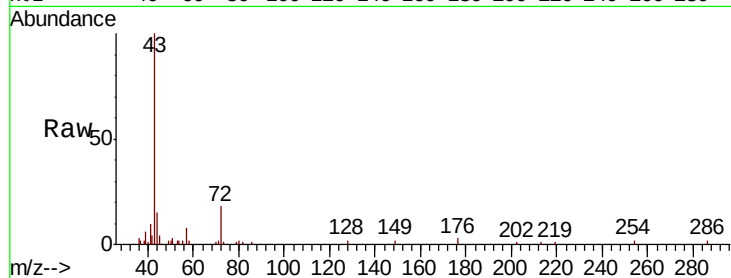




#34
 2-Butanone
 Concen: 0.120 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL037178.D
 Acq: 16 Jun 2021 20:01

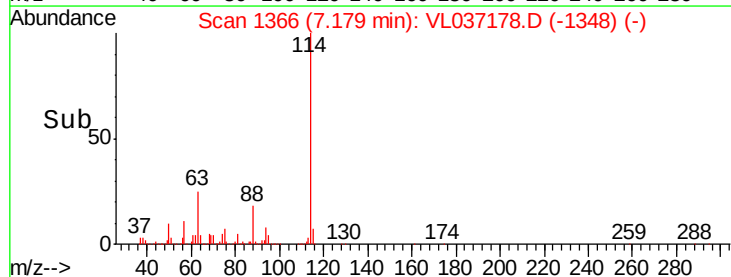
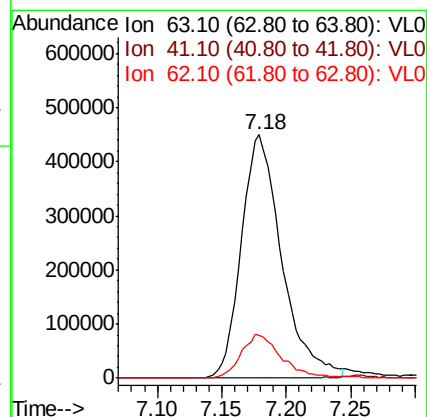
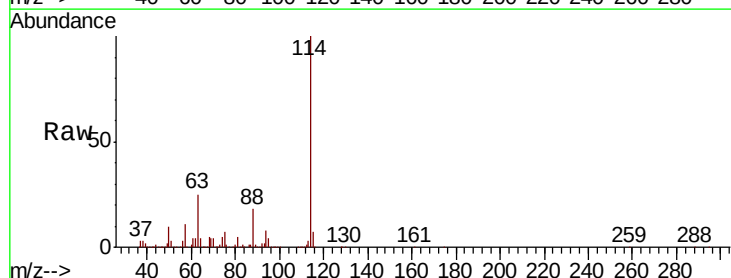
Instrument :
 MSVOA_L
 ClientSampled :

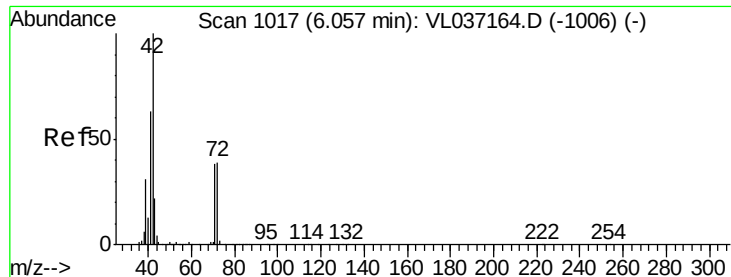
Tot Ion: 43 Resp: 19278
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.9 28.3#



#39
 1,2-Dichloropropane
 Concen: 7.924 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.44 min
 Lab File: VL037178.D
 Acq: 16 Jun 2021 20:01

Tgt Ion: 63 Resp: 983960
 Ion Ratio Lower Upper
 63 100
 41 0.1 62.0 93.0#
 62 17.4 54.9 82.3#





#41

Tetrahydrofuran

Concen: 0.061 ppbv

RT: 6.08 min Scan# 1025

Delta R.T. 0.03 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

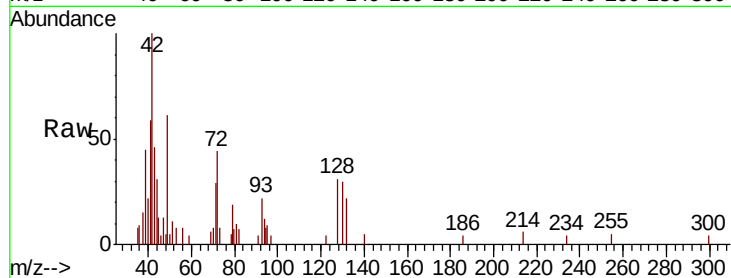
Tot Ion: 42 Resp: 4586

Ion Ratio Lower Upper

42 100

72 0.0 33.0 49.4#

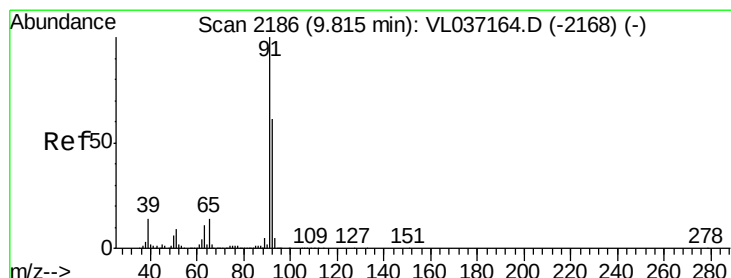
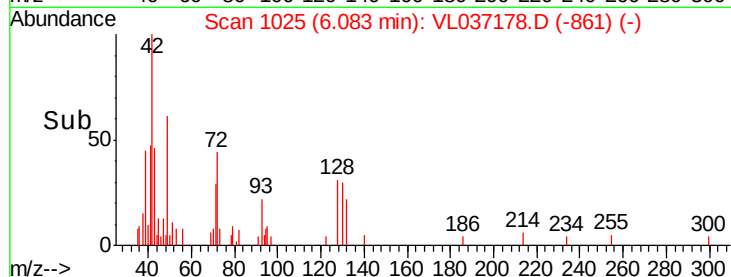
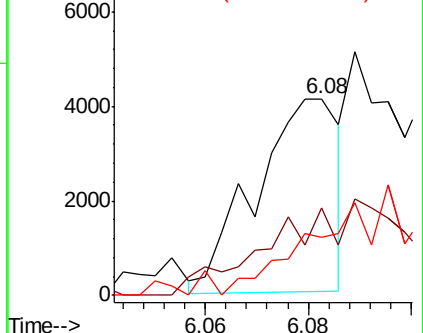
71 0.0 31.0 46.6#



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



#53

Toluene

Concen: 0.631 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL037178.D

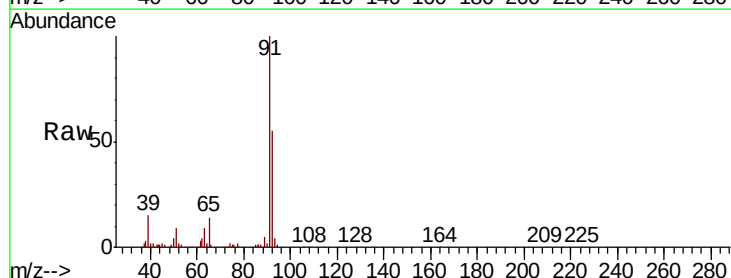
Acq: 16 Jun 2021 20:01

Tgt Ion: 91 Resp: 251756

Ion Ratio Lower Upper

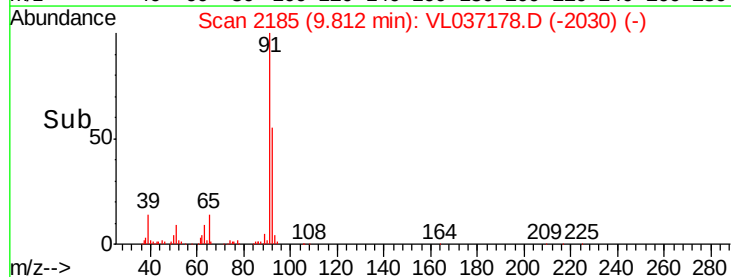
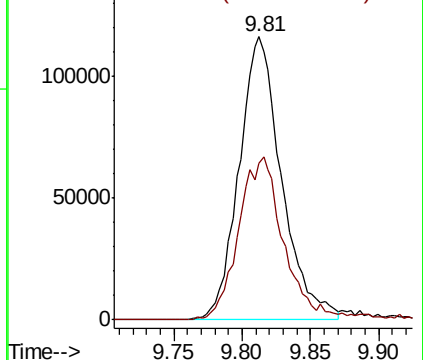
91 100

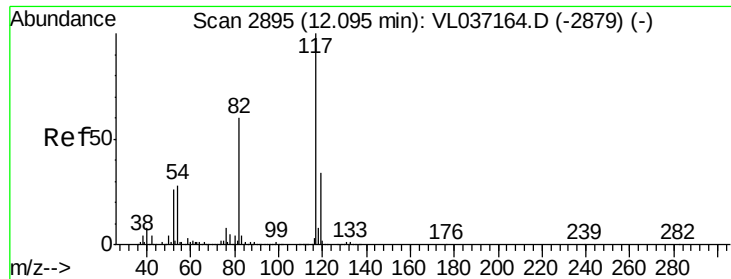
92 61.7 48.3 72.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

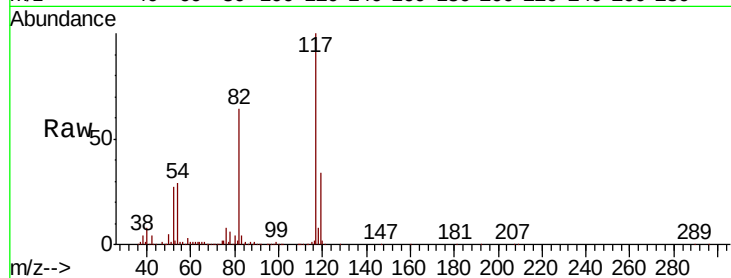




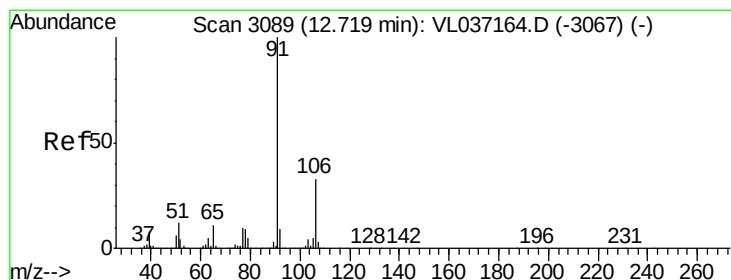
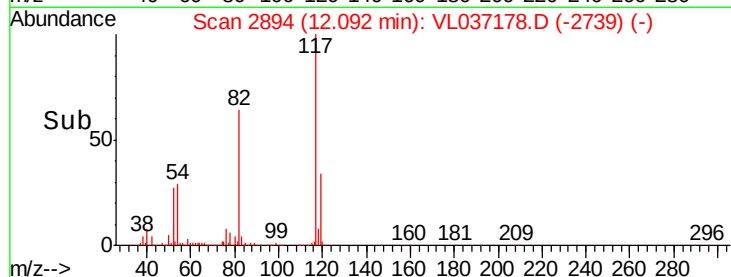
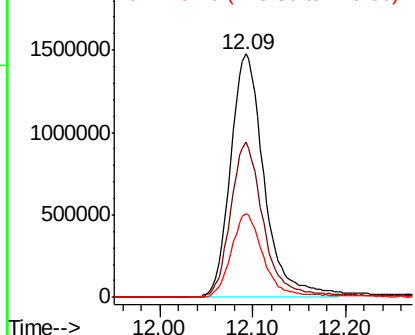
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL037178.D
Acq: 16 Jun 2021 20:01

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3731786
Ion Ratio Lower Upper
117 100
82 63.1 51.7 77.5
119 34.1 47.6 71.4#

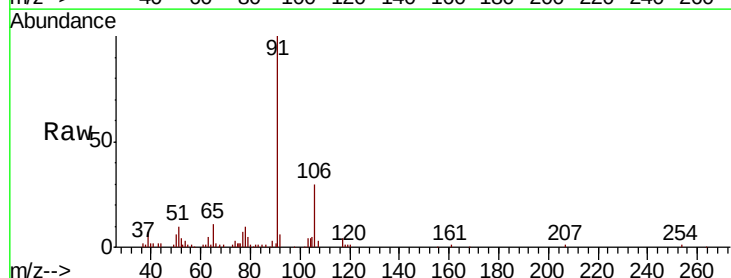


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

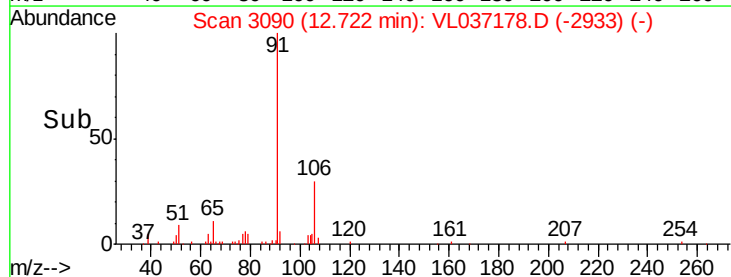
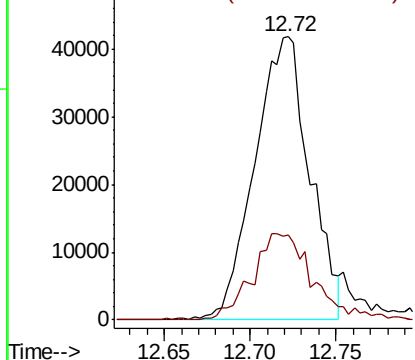


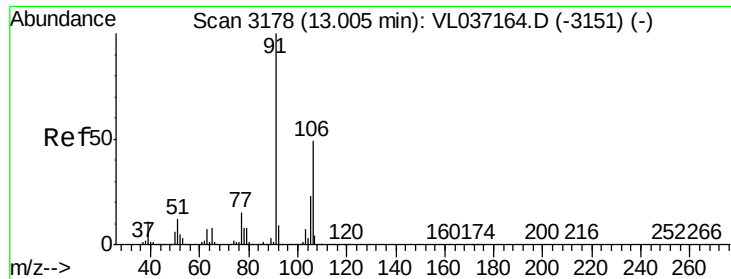
#58
Ethyl Benzene
Concen: 0.181 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. 0.00 min
Lab File: VL037178.D
Acq: 16 Jun 2021 20:01

Tgt Ion: 91 Resp: 92854
Ion Ratio Lower Upper
91 100
106 30.1 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
50000 Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.978 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.04 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :

MSVOA_L

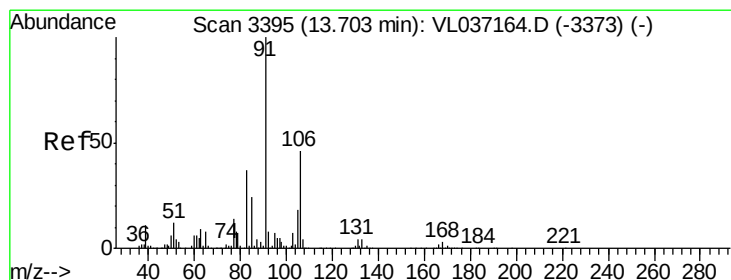
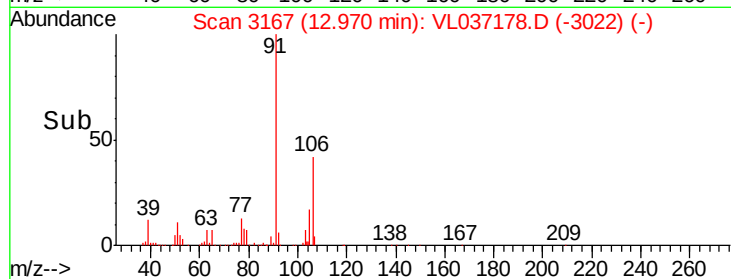
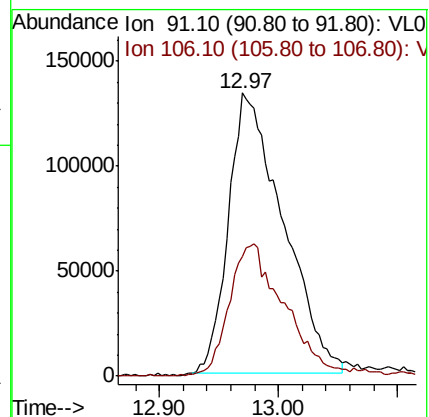
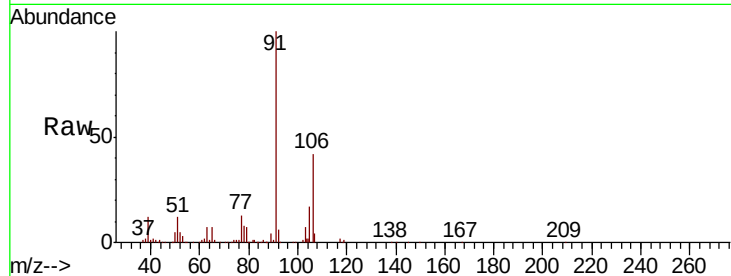
ClientSampled :

Tot Ion: 91 Resp: 425916

Ion Ratio Lower Upper

91 100

106 47.9 37.0 55.4



#60

o-Xylene

Concen: 0.412 ppbv

RT: 13.70 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL037178.D

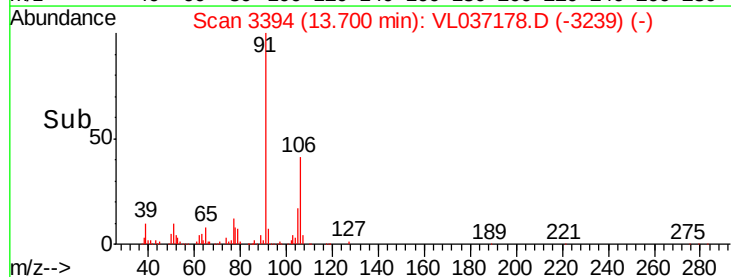
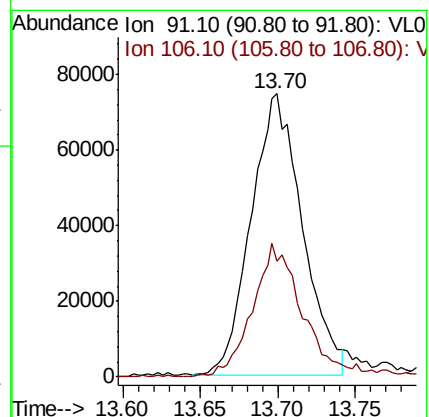
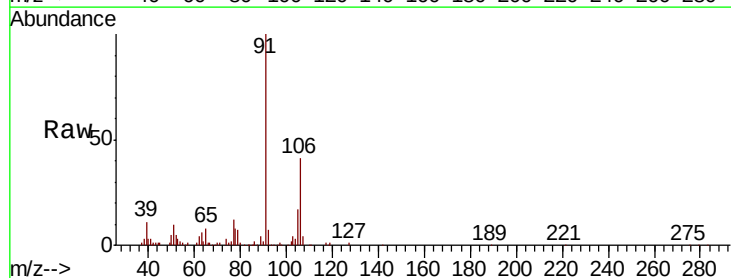
Acq: 16 Jun 2021 20:01

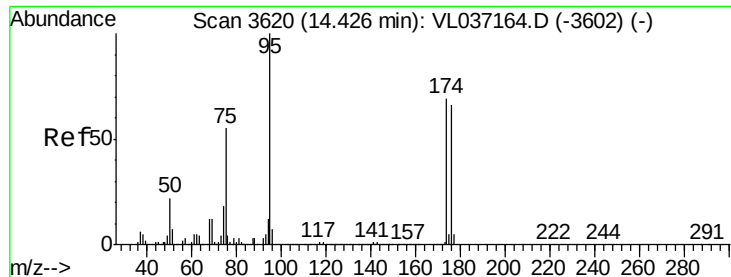
Tgt Ion: 91 Resp: 170753

Ion Ratio Lower Upper

91 100

106 47.6 23.0 69.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.793 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL037178.D

Acq: 16 Jun 2021 20:01

Instrument :

MSVOA_L

ClientSampleId :

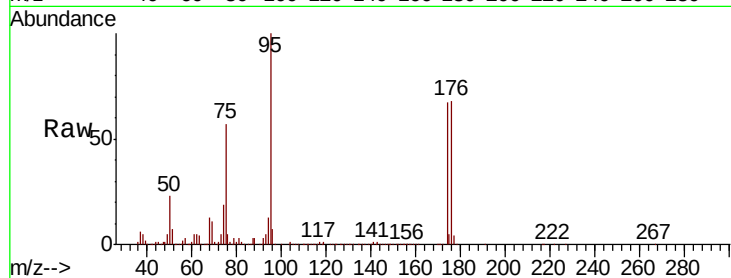
Tot Ion: 95 Resp: 2769123

Ion Ratio Lower Upper

95 100

174 73.3 57.0 85.4

175 4.8 4.4 6.6



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

