

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037478.D
 Acq On : 17 Aug 2021 1:53
 Operator : SY/AP
 Sample : M2940-14 0.03 LOQ
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 17 03:39:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1344629	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4114115	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3542765	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2533845	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

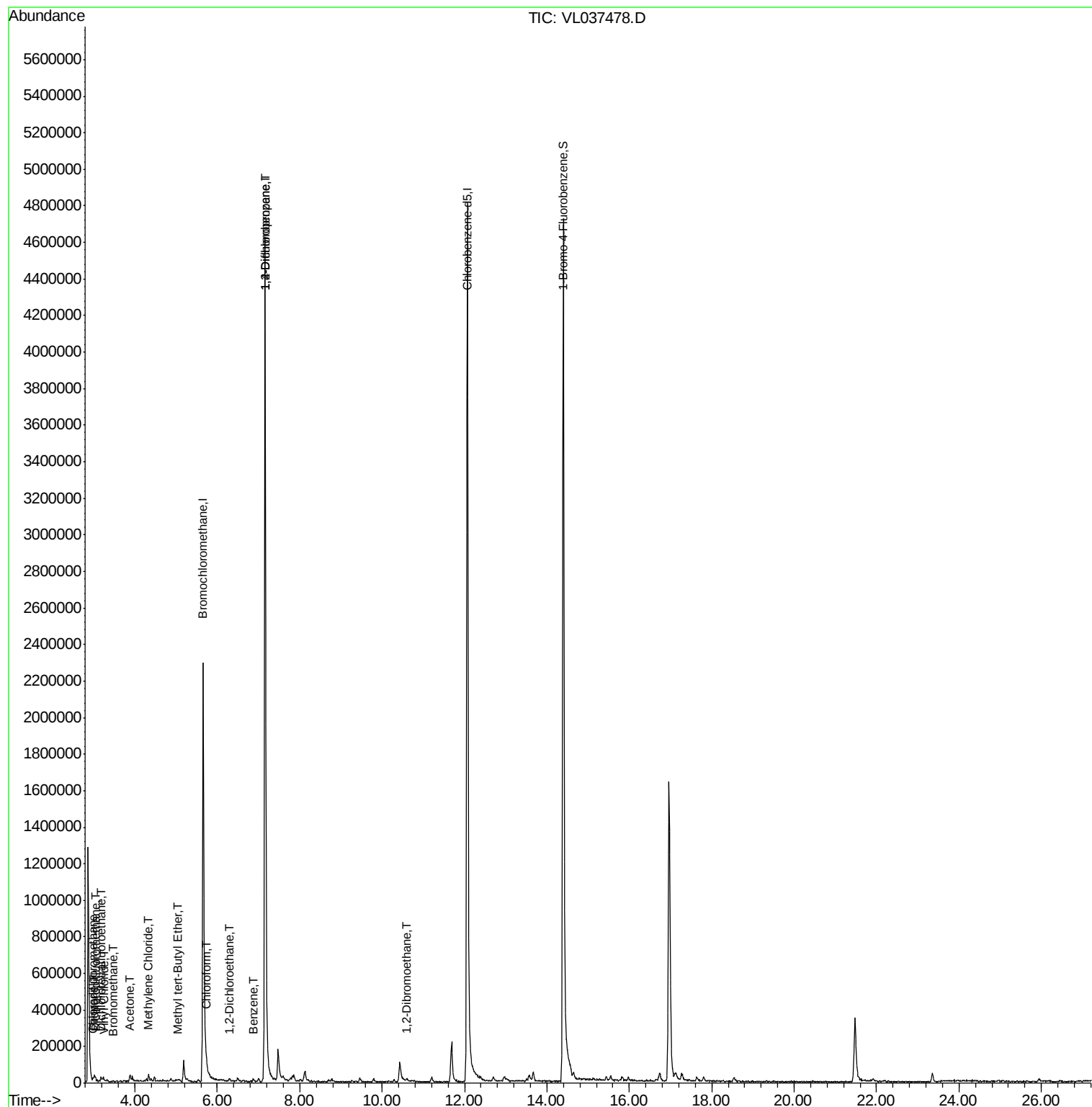
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	7082	0.033	ppbv	89
3) Chlorodifluoromethane	2.98	51	13003	0.051	ppbv #	80
5) Vinyl Chloride	3.25	62	4591	0.049	ppbv	95
6) Bromomethane	3.47	94	1582	0.031	ppbv #	36
8) Dichlorotetrafluoroethane	3.18	85	9407	0.042	ppbv #	56
9) Propene	3.01	41	6201	0.067	ppbv #	16
15) Acetone	3.87	43	12277	0.090	ppbv #	44
20) Methylene Chloride	4.33	84	3888	0.057	ppbv #	40
28) Methyl tert-Butyl Ether	5.05	73	6460	0.040	ppbv #	51
29) Chloroform	5.74	83	12846	0.053	ppbv	99
36) Benzene	6.87	78	11294	0.033	ppbv #	79
37) 1,2-Dichloroethane	6.30	62	5721	0.033	ppbv	99
39) 1,2-Dichloropropane	7.16	63	954119	7.179	ppbv #	28
54) 1,2-Dibromoethane	10.59	107	7392	0.037	ppbv	99

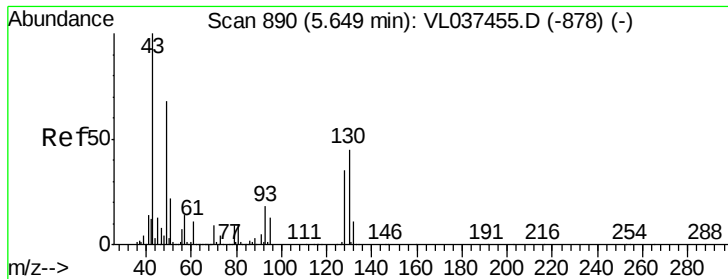
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037478.D

Acq: 17 Aug 2021 1:53

Instrument :
MSVOA_L
ClientSampleId :

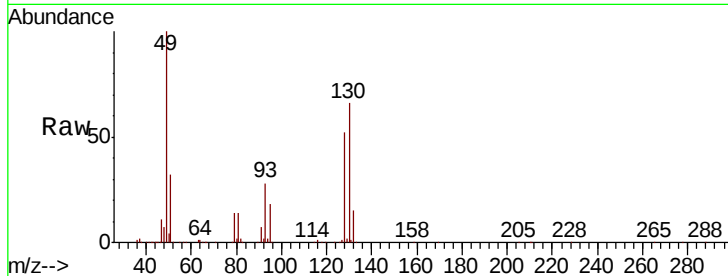
Tot Ion: 49 Resp: 1344629

Ion Ratio Lower Upper

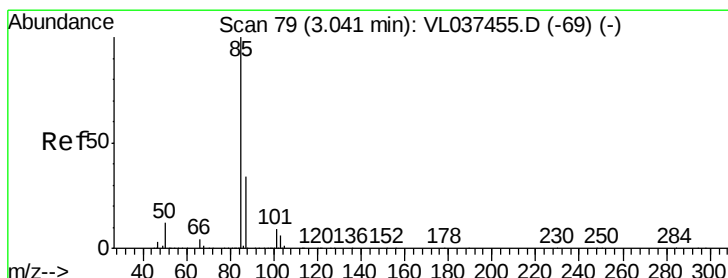
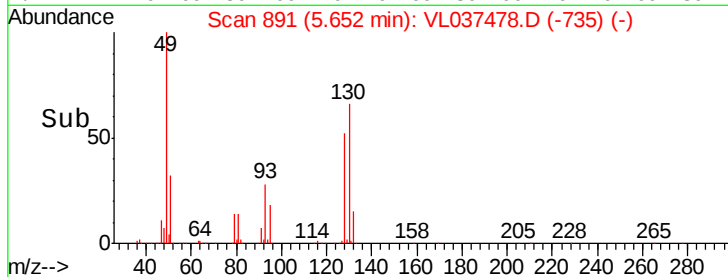
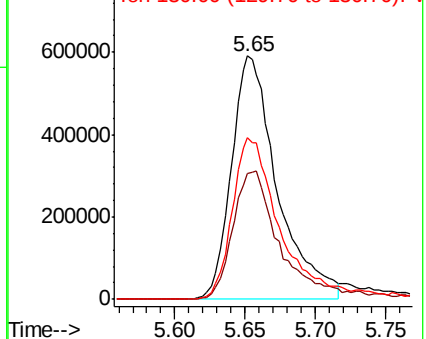
49 100

128 57.7 27.5 82.4

130 71.5 34.0 101.8



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: 0.033 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL037478.D

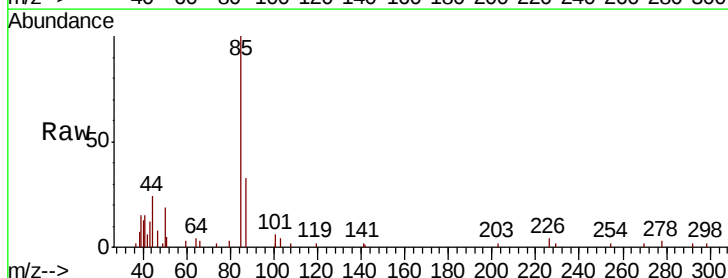
Acq: 17 Aug 2021 1:53

Tgt Ion: 85 Resp: 7082

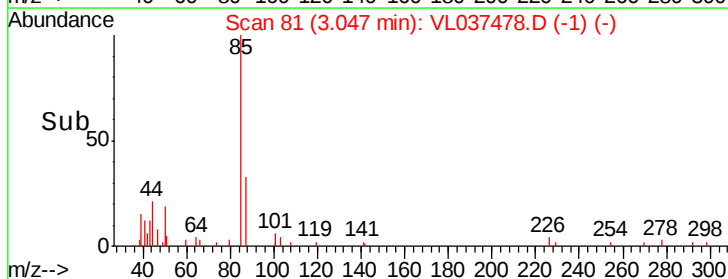
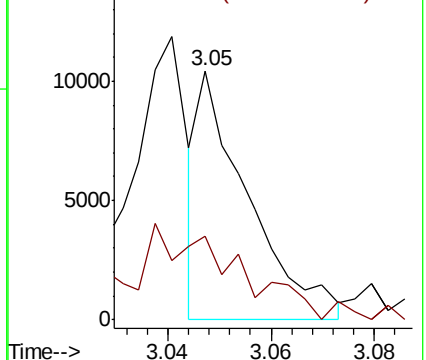
Ion Ratio Lower Upper

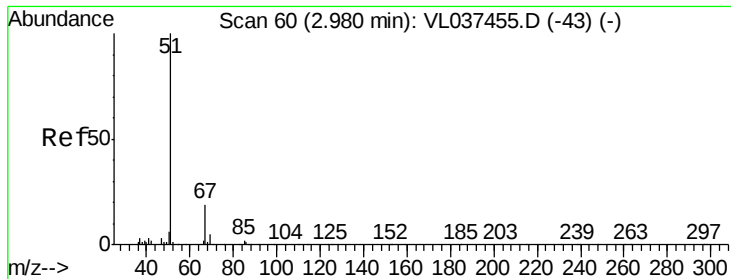
85 100

87 28.0 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL037478.D

Acq: 17 Aug 2021 1:53

Instrument :

MSVOA_L

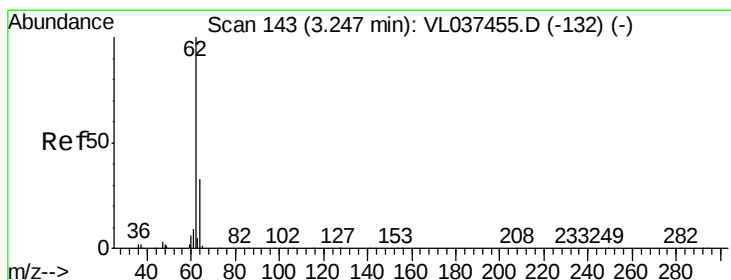
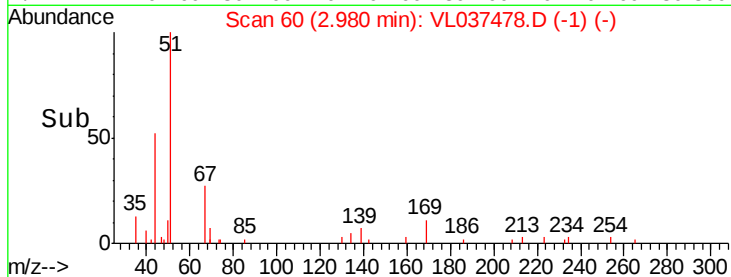
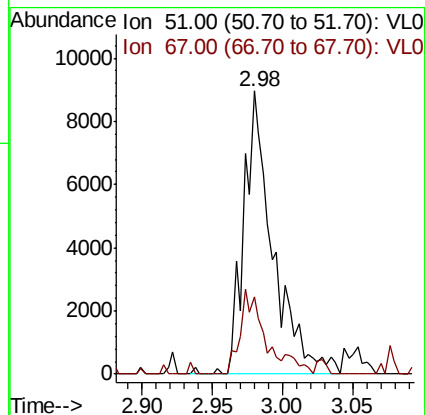
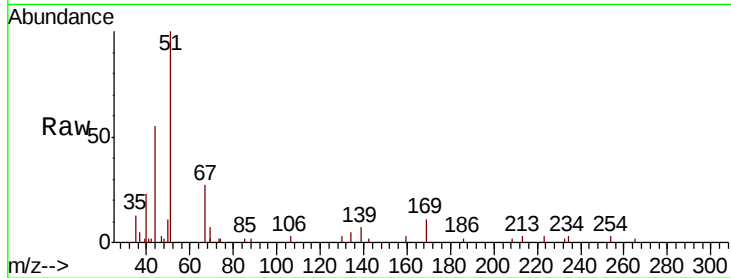
ClientSampleId :

Tot Ion: 51 Resp: 13003

Ion Ratio Lower Upper

51 100

67 26.4 14.2 21.2#



#5

Vinyl Chloride

Concen: 0.049 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL037478.D

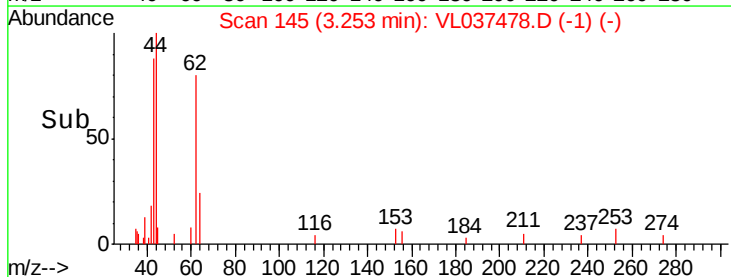
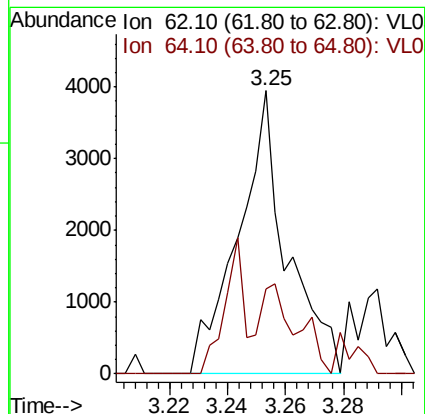
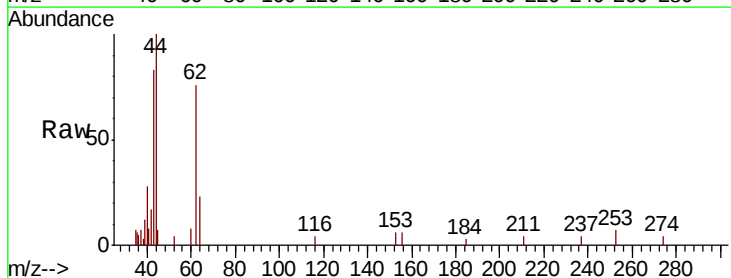
Acq: 17 Aug 2021 1:53

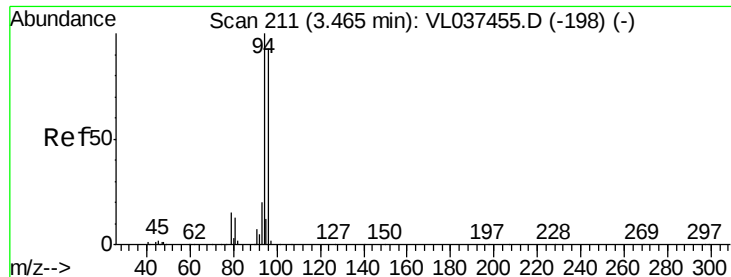
Tgt Ion: 62 Resp: 4591

Ion Ratio Lower Upper

62 100

64 30.2 26.5 39.7





#6

Bromomethane

Concen: 0.031 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL037478.D

Acq: 17 Aug 2021 1:53

Instrument :

MSVOA_L

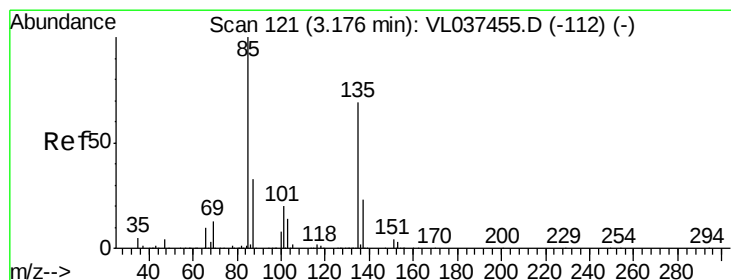
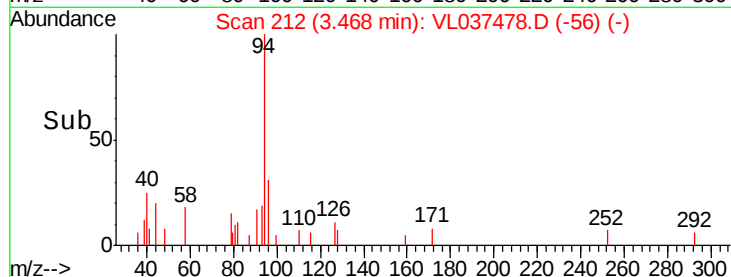
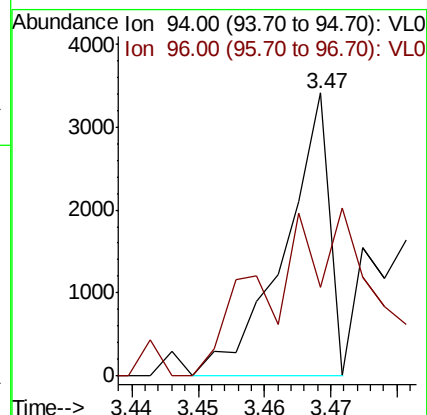
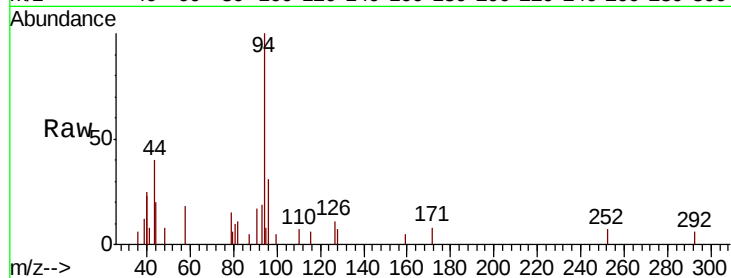
ClientSampleId :

Tot Ion: 94 Resp: 1582

Ion Ratio Lower Upper

94 100

96 31.2 74.5 111.7#



#8

Dichlorotetrafluoroethane

Concen: 0.042 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL037478.D

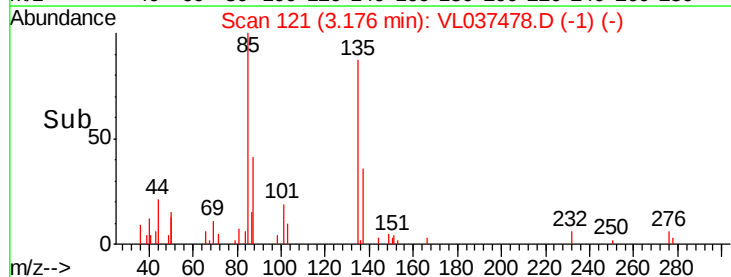
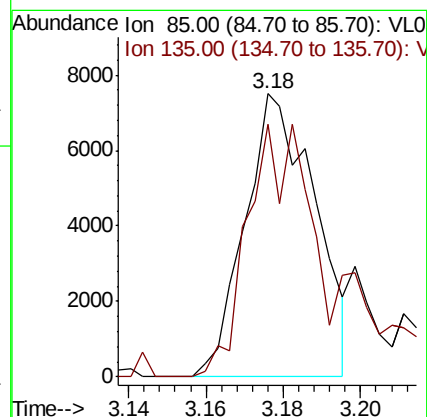
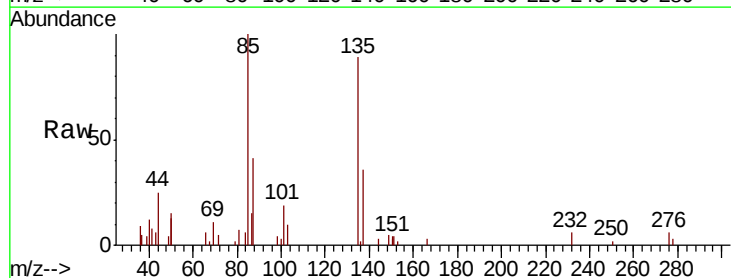
Acq: 17 Aug 2021 1:53

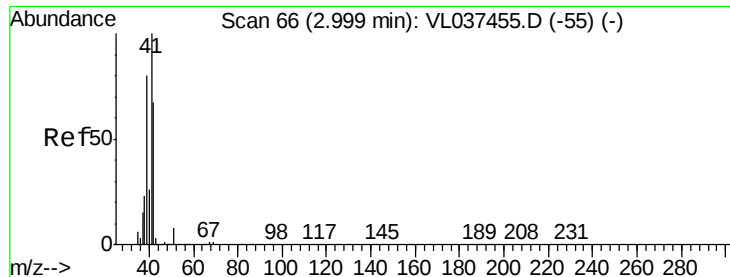
Tgt Ion: 85 Resp: 9407

Ion Ratio Lower Upper

85 100

135 110.7 58.8 88.2#





#9

Propene

Concen: 0.067 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL037478.D

Acq: 17 Aug 2021 1:53

Instrument :

MSVOA_L

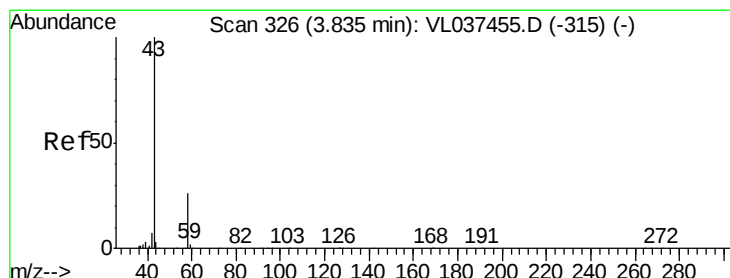
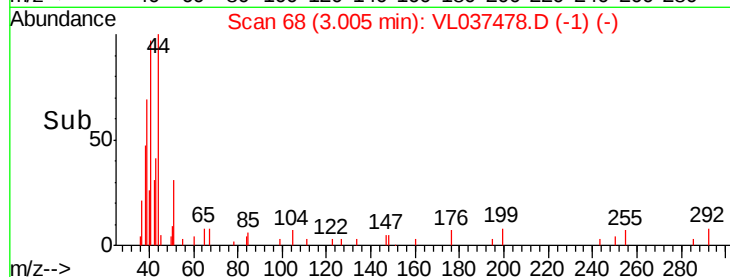
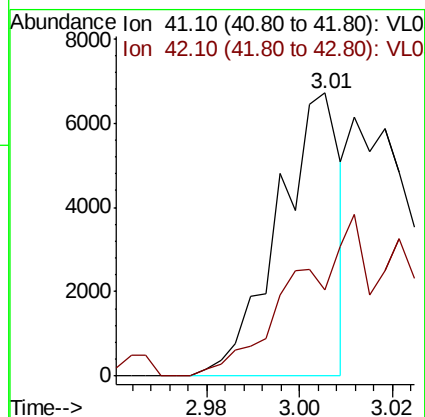
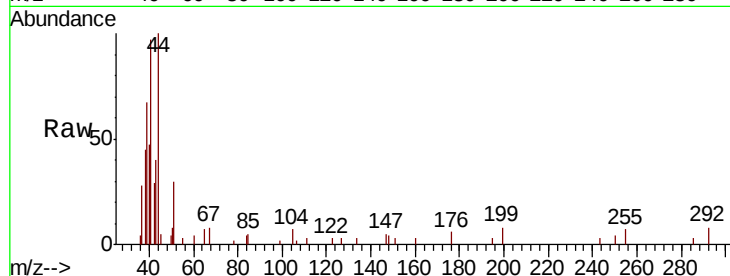
ClientSampleId :

Tot Ion: 41 Resp: 6201

Ion Ratio Lower Upper

41 100

42 0.0 53.7 80.5#



#15

Acetone

Concen: 0.090 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.04 min

Lab File: VL037478.D

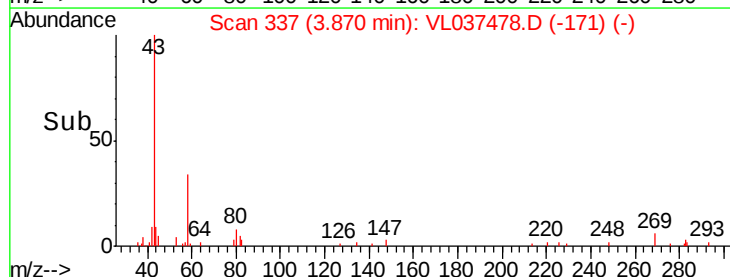
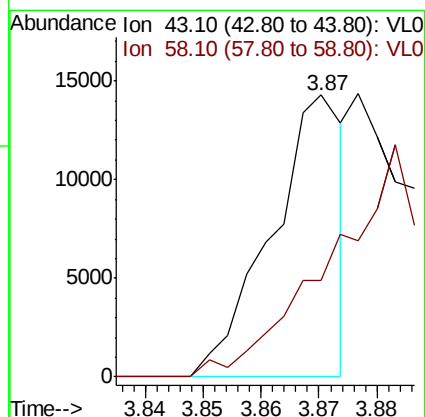
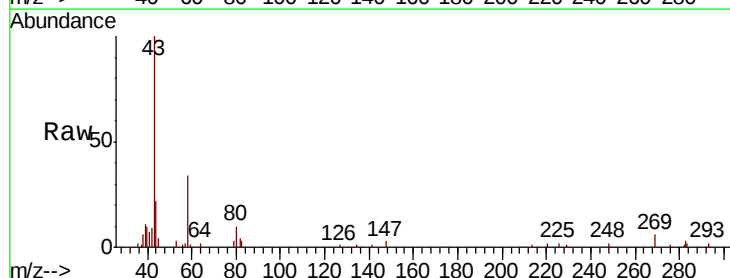
Acq: 17 Aug 2021 1:53

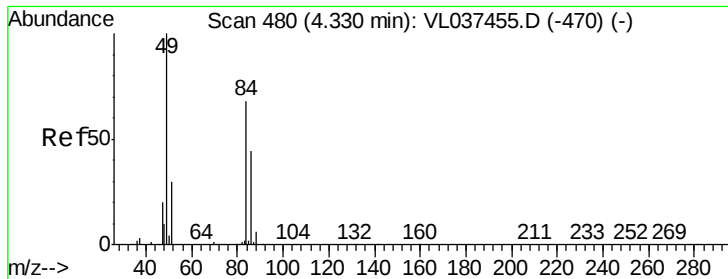
Tgt Ion: 43 Resp: 12277

Ion Ratio Lower Upper

43 100

58 0.0 24.8 37.2#

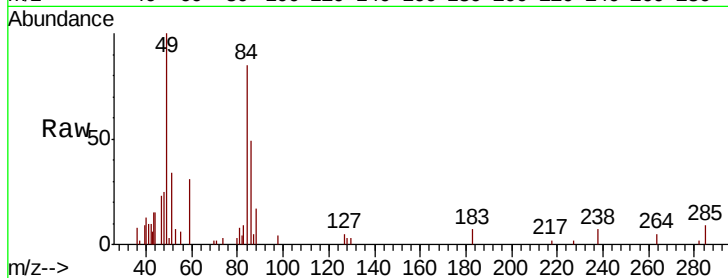




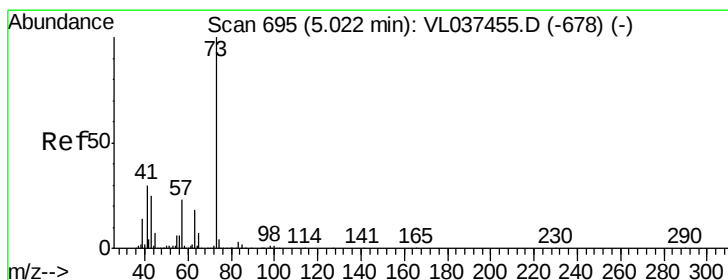
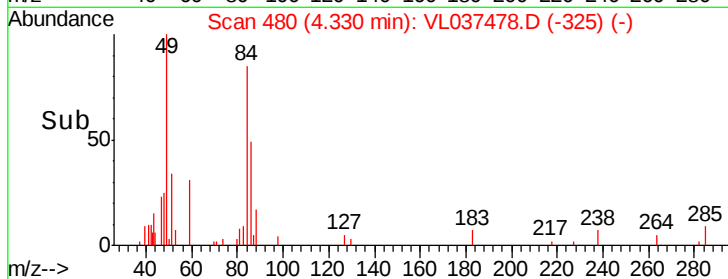
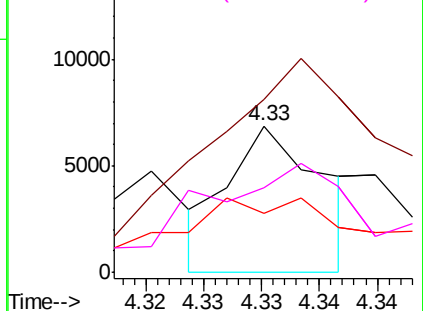
#20
Methvlene Chloride
Concen: 0.057 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.00 min
Lab File: VL037478.D
Acq: 17 Aug 2021 1:53

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	84	Resp:	3888
Ion	Ratio	Lower	Upper
84	100		
49	72.6	118.2	177.2#
51	22.7	36.6	55.0#
86	3.1	51.8	77.6#

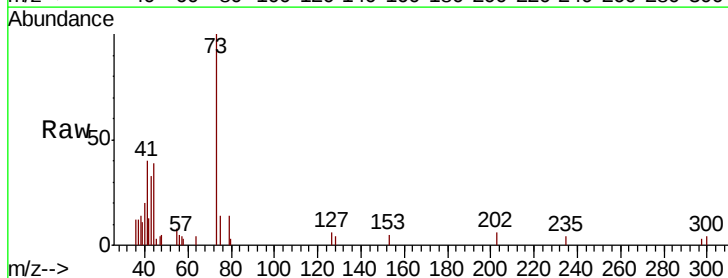


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

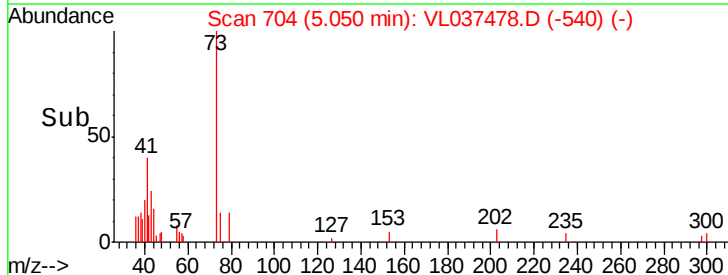
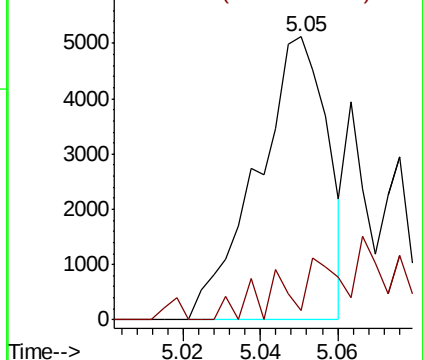


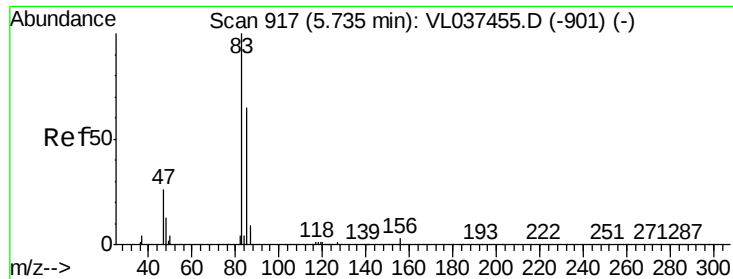
#28
Methyl tert-Butyl Ether
Concen: 0.040 ppbv
RT: 5.05 min Scan# 704
Delta R.T. 0.03 min
Lab File: VL037478.D
Acq: 17 Aug 2021 1:53

Tgt Ion:	73	Resp:	6460
Ion	Ratio	Lower	Upper
73	100		
57	0.0	19.4	29.2#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

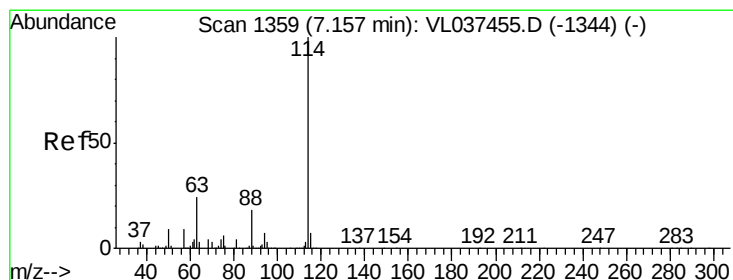
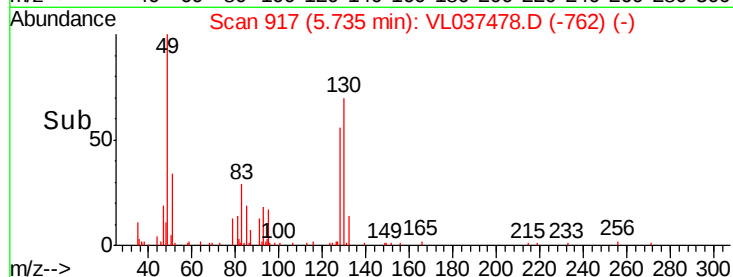
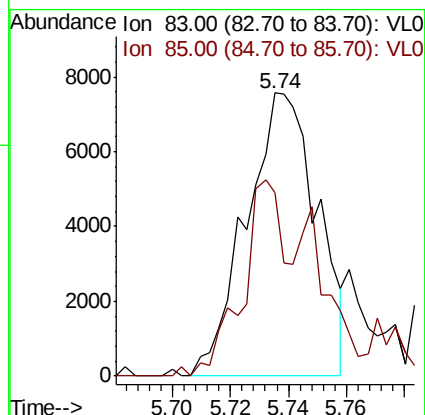
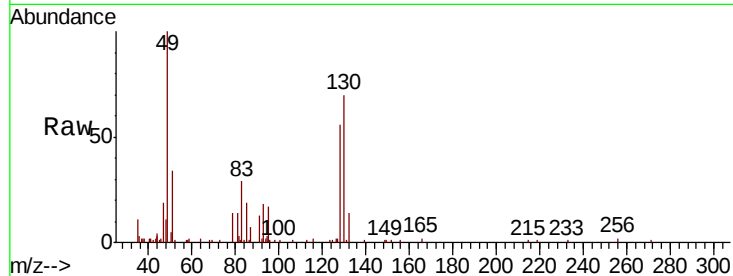




#29
Chloroform
Concen: 0.053 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037478.D
Acq: 17 Aug 2021 1:53

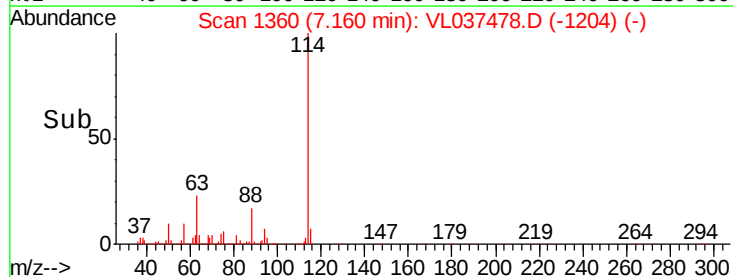
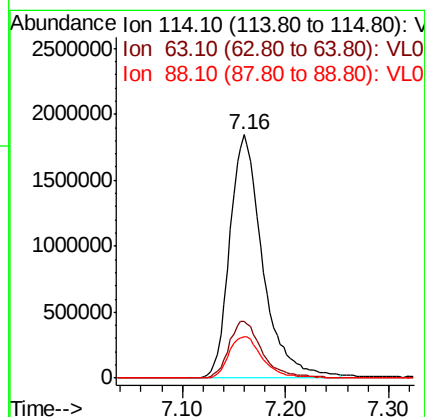
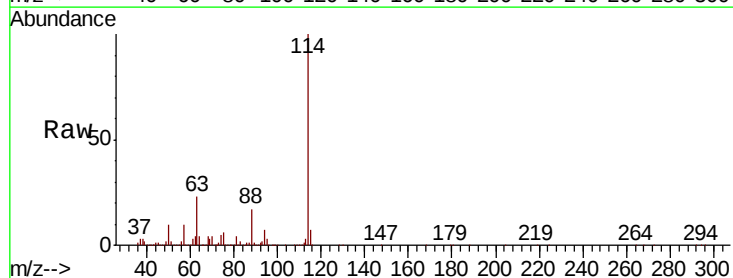
Instrument :
MSVOA_L
ClientSampleId :

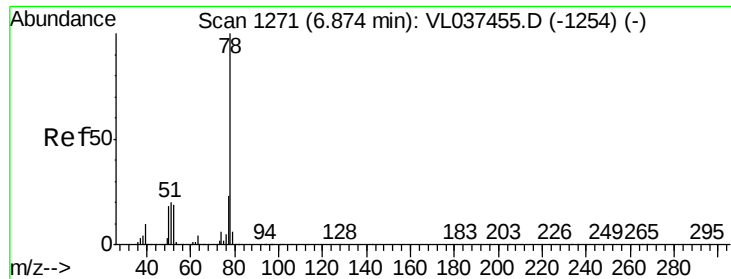
Tot Ion: 83 Resp: 12846
Ion Ratio Lower Upper
83 100
85 64.8 52.3 78.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037478.D
Acq: 17 Aug 2021 1:53

Tgt Ion: 114 Resp: 4114115
Ion Ratio Lower Upper
114 100
63 24.0 19.3 28.9
88 17.7 14.2 21.4





#36

Benzene

Concen: 0.033 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VL037478.D

Acq: 17 Aug 2021 1:53

Instrument :

MSVOA_L

ClientSampleId :

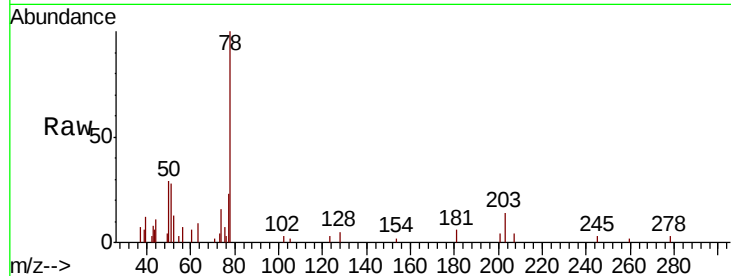
Tot Ion: 78 Resp: 11294

Ion Ratio Lower Upper

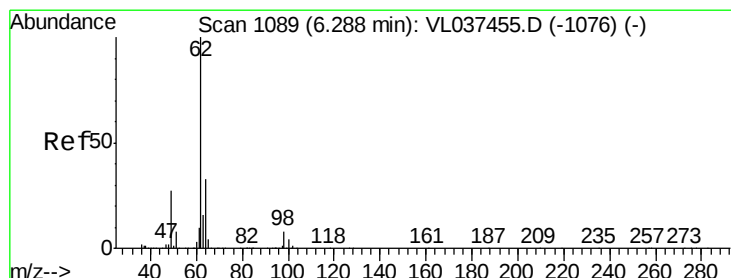
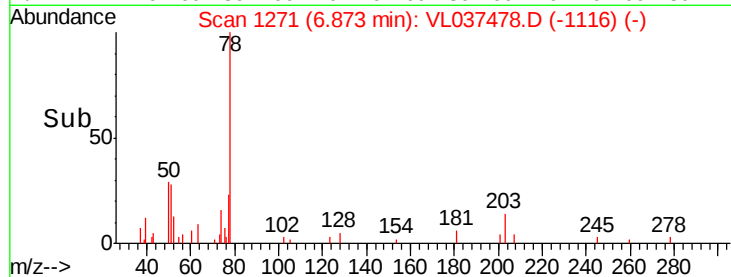
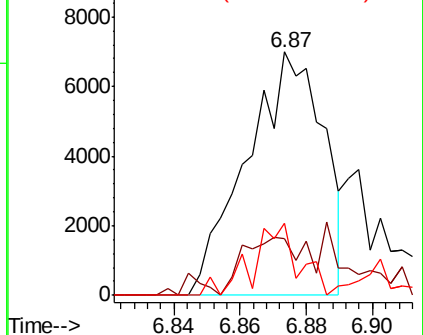
78 100

77 14.3 18.2 27.4#

50 29.4 14.6 21.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.033 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. 0.01 min

Lab File: VL037478.D

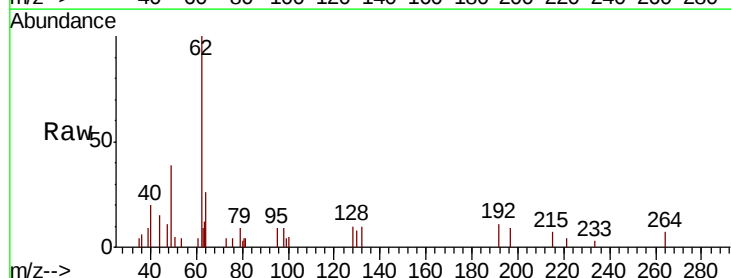
Acq: 17 Aug 2021 1:53

Tgt Ion: 62 Resp: 5721

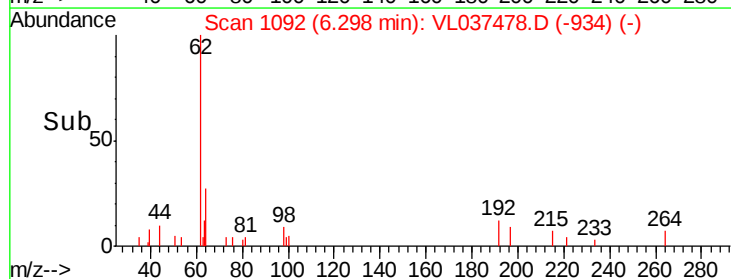
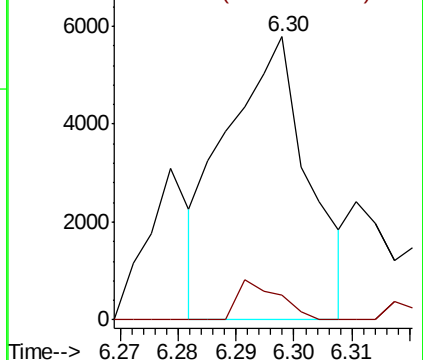
Ion Ratio Lower Upper

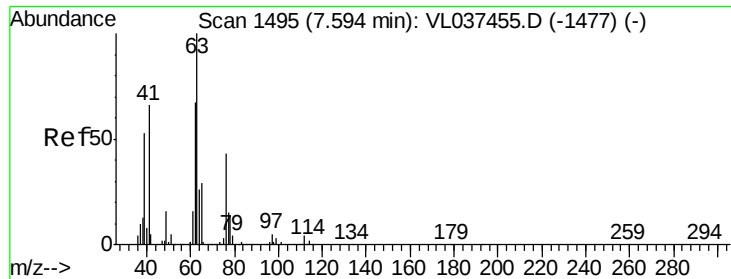
62 100

98 7.0 6.0 9.0



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

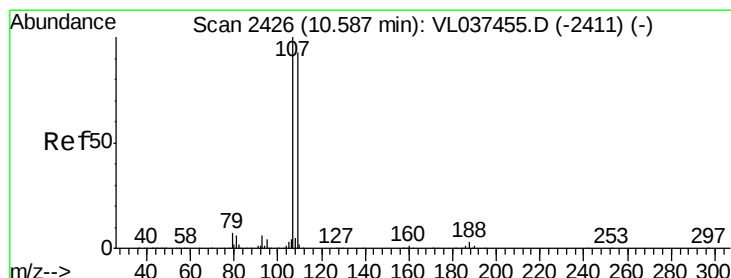
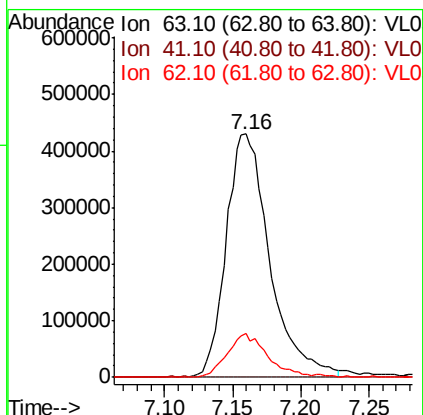
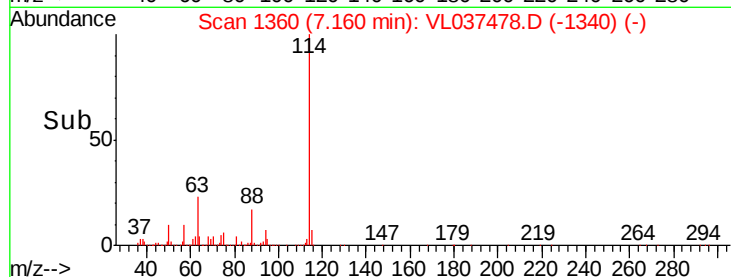
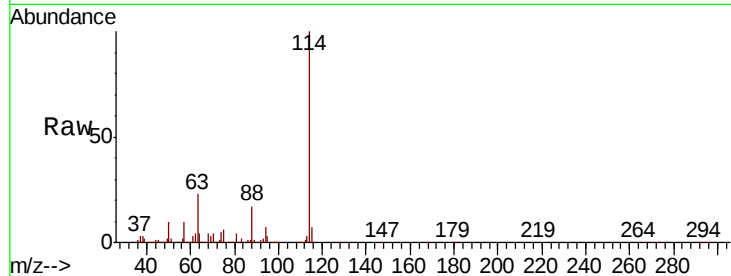




#39
 1,2-Dichloropropane
 Concen: 7.179 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037478.D
 Acq: 17 Aug 2021 1:53

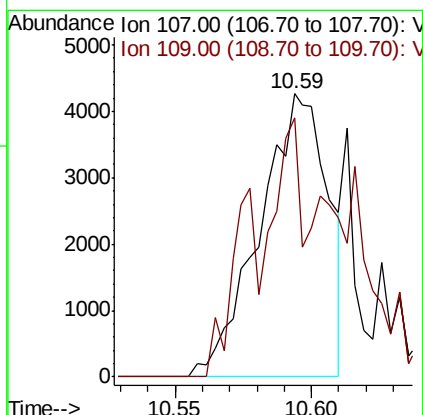
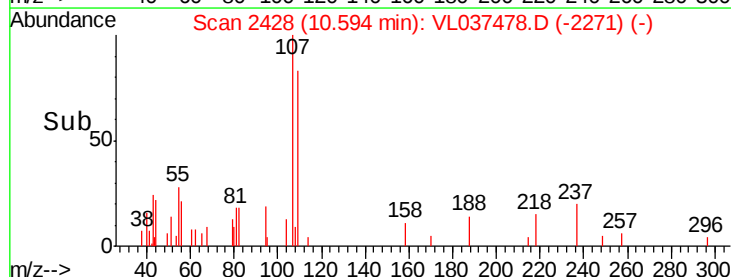
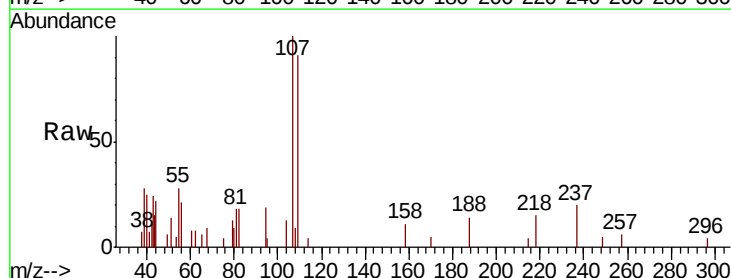
Instrument :
 MSVOA_L
 ClientSampled :

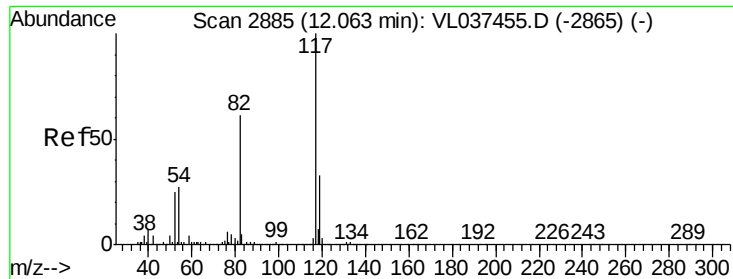
Tot Ion: 63 Resp: 954119
 Ion Ratio Lower Upper
 63 100
 41 0.2 52.4 78.6#
 62 18.0 53.6 80.4#



#54
 1,2-Dibromoethane
 Concen: 0.037 ppbv
 RT: 10.59 min Scan# 2428
 Delta R.T. 0.01 min
 Lab File: VL037478.D
 Acq: 17 Aug 2021 1:53

Tgt Ion: 107 Resp: 7392
 Ion Ratio Lower Upper
 107 100
 109 91.4 74.2 111.4

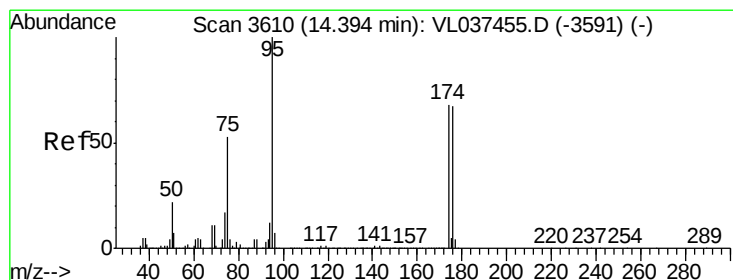
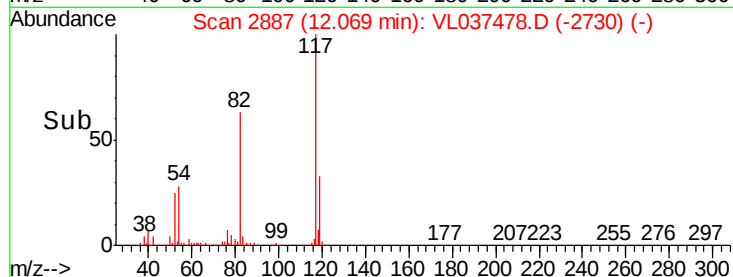
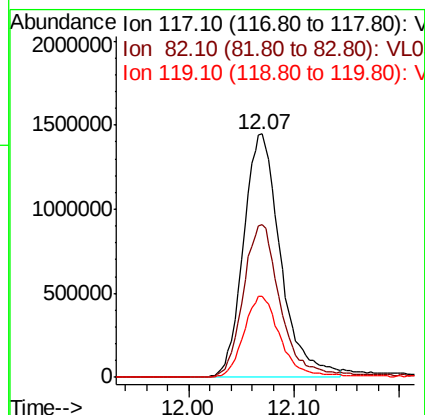
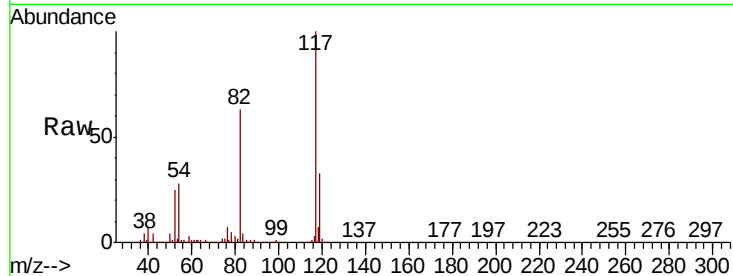




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037478.D
Acq: 17 Aug 2021 1:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3542765
Ion Ratio Lower Upper
117 100
82 65.4 52.9 79.3
119 34.1 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.00 min
Lab File: VL037478.D
Acq: 17 Aug 2021 1:53

Tgt Ion: 95 Resp: 2533845
Ion Ratio Lower Upper
95 100
174 74.8 59.6 89.4
175 5.5 4.6 7.0

