

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037238.D
 Acq On : 23 Jun 2021 9:07
 Operator : SY/AP
 Sample : M2797-01DL 200X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 24 03:48:38 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	5.65	49	1581109	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4562603	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.07	117	3987244	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2851595	9.44	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

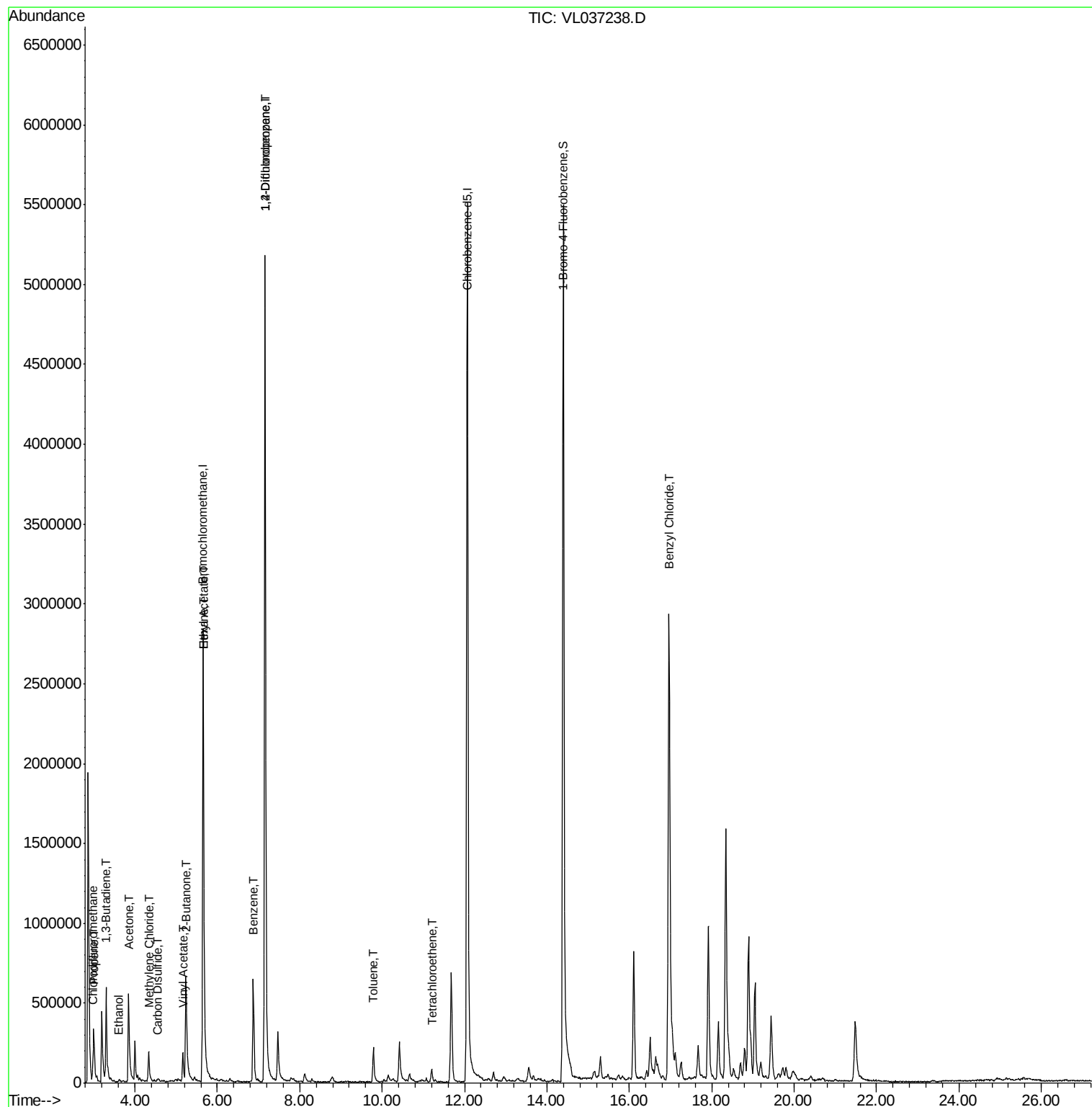
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	152116	0.495	ppbv	100
9) Propene	3.00	41	148454	1.510	ppbv	99
13) Ethanol	3.61	45	7321	0.481	ppbv	58
15) Acetone	3.84	43	710563	3.985	ppbv #	87
16) 1,3-Butadiene	3.30	39	176200	1.672	ppbv #	20
20) Methylene Chloride	4.33	84	67962	0.637	ppbv	98
23) Vinyl Acetate	5.16	43	71593	0.280	ppbv #	18
25) Ethyl Acetate	5.67	43	44900	0.116	ppbv #	82
26) Hexane	5.67	57	58280	0.299	ppbv #	45
27) Carbon Disulfide	4.54	76	13553	0.071	ppbv #	18
34) 2-Butanone	5.24	43	1023968	5.771	ppbv	99
36) Benzene	6.87	78	593606	1.609	ppbv	99
39) 1,2-Dichloropropane	7.16	63	1103051	8.046	ppbv #	23
52) Tetrachloroethene	11.20	164	9995	0.058	ppbv	91
53) Toluene	9.79	91	180654	0.410	ppbv	97
66) Benzyl Chloride	16.95	91	1008	0.043	ppbv #	1

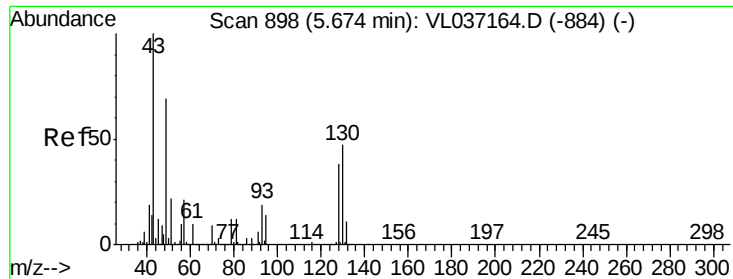
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

Instrument :

MSVOA_L

ClientSampleId :

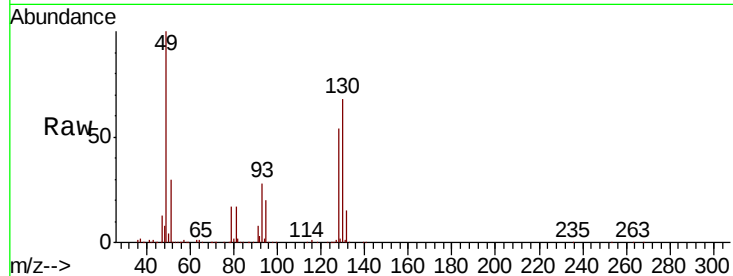
Tot Ion: 49 Resp: 1581109

Ion Ratio Lower Upper

49 100

128 54.6 29.3 88.0

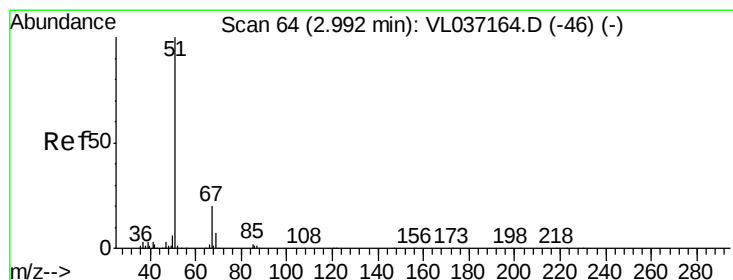
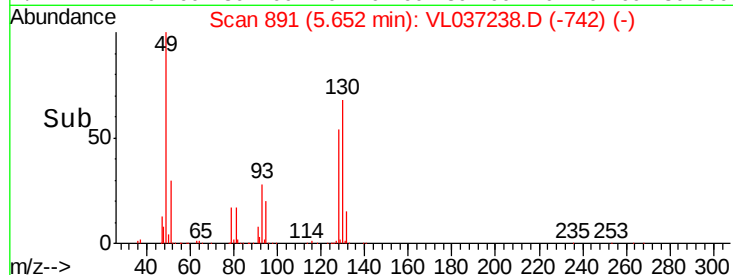
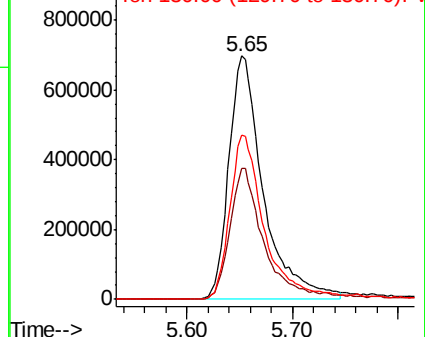
130 69.2 35.9 107.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.495 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037238.D

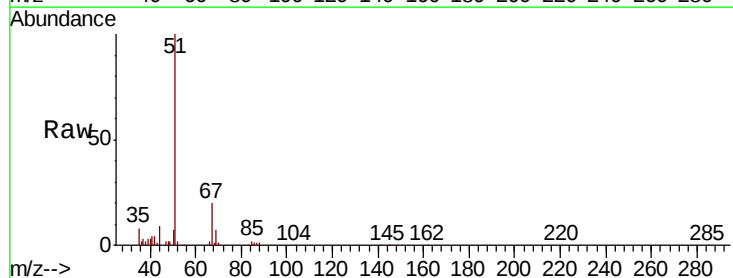
Acq: 23 Jun 2021 9:07

Tgt Ion: 51 Resp: 152116

Ion Ratio Lower Upper

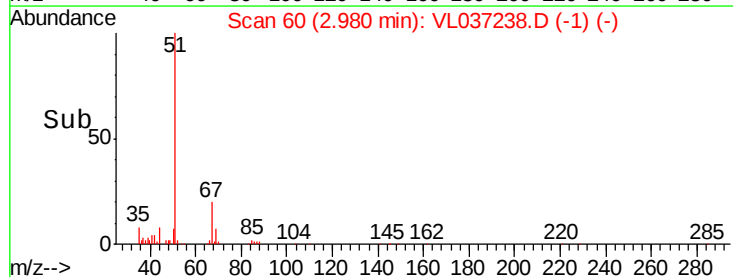
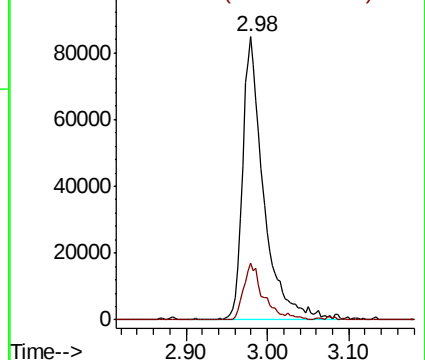
51 100

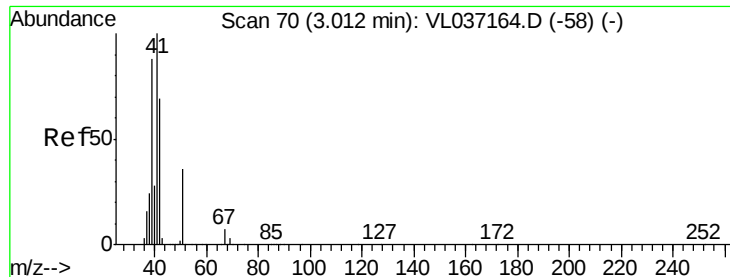
67 19.9 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 1.510 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

Instrument :

MSVOA_L

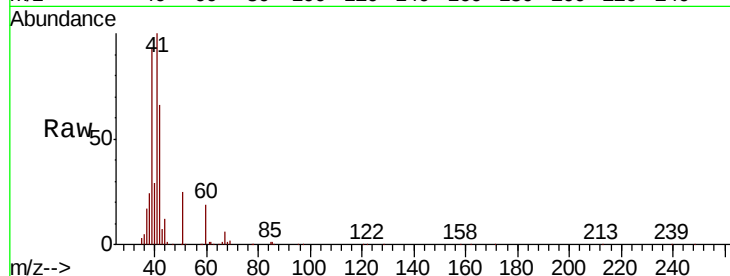
ClientSampled :

Tot Ion: 41 Resp: 148454

Ion Ratio Lower Upper

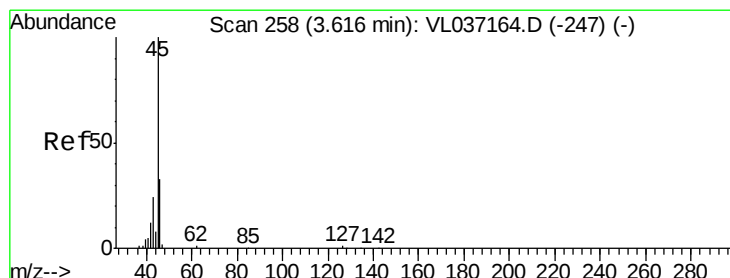
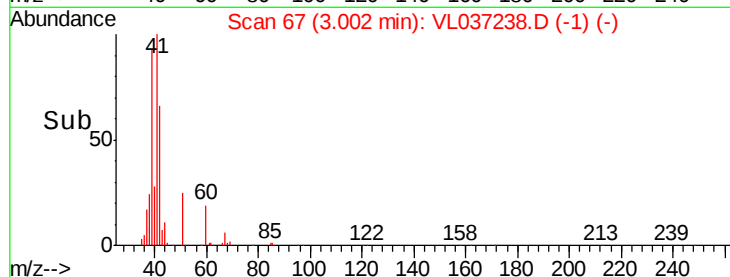
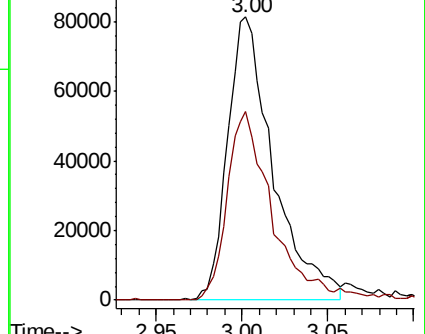
41 100

42 67.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.481 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037238.D

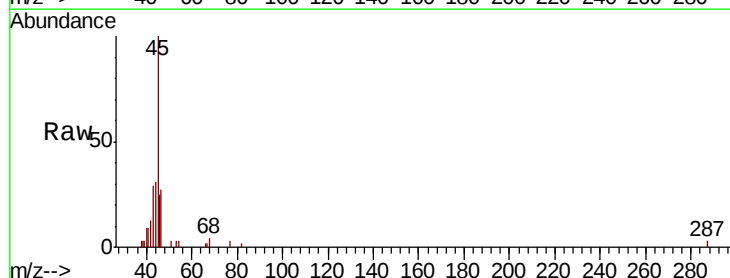
Acq: 23 Jun 2021 9:07

Tgt Ion: 45 Resp: 7321

Ion Ratio Lower Upper

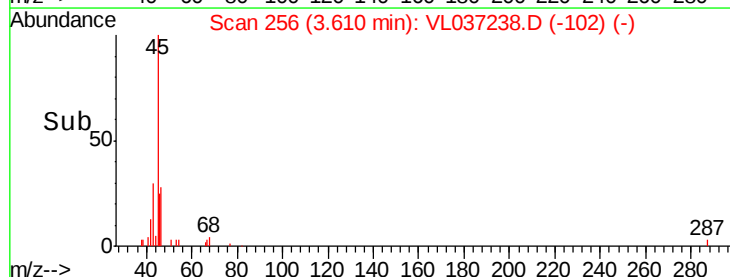
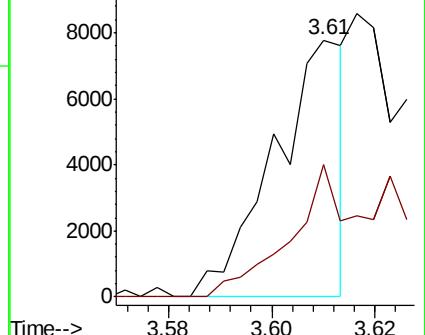
45 100

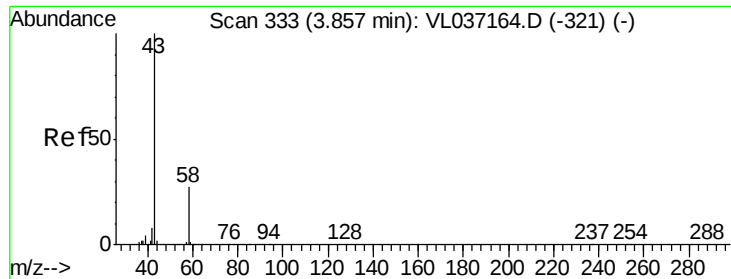
46 124.1 34.2 137.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

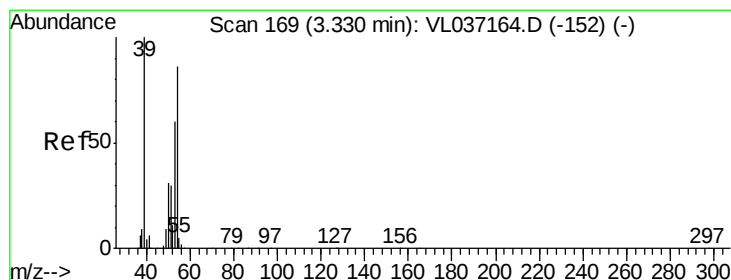
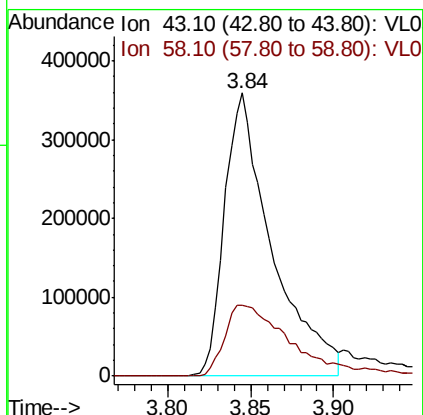
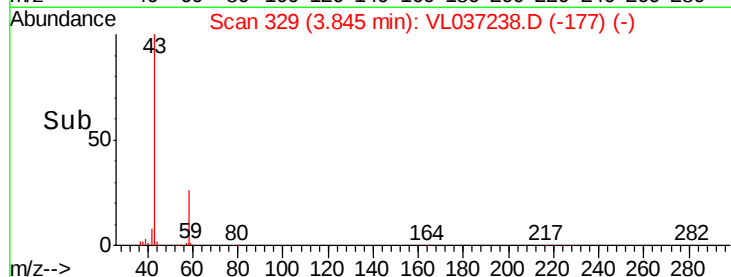
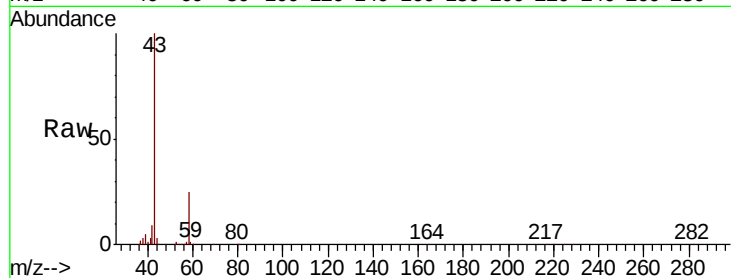




#15
Acetone
Concen: 3.985 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

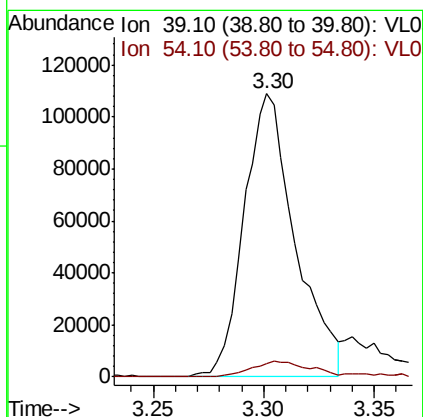
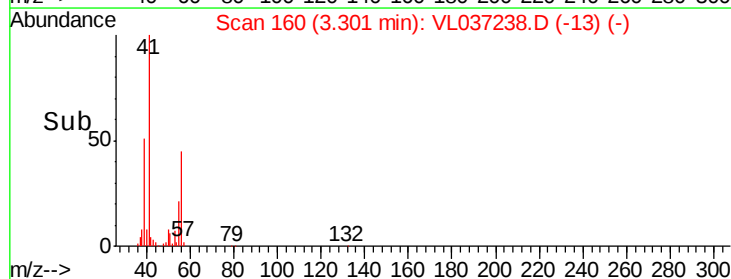
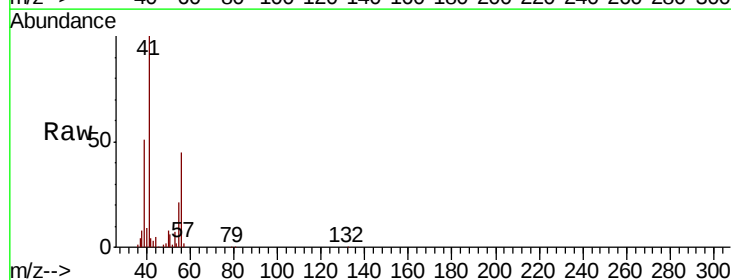
Instrument :
MSVOA_L
ClientSampleId :

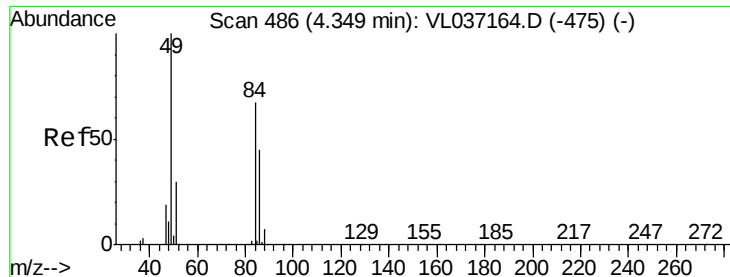
Tot Ion: 43 Resp: 710563
Ion Ratio Lower Upper
43 100
58 36.4 23.7 35.5#



#16
1,3-Butadiene
Concen: 1.672 ppbv
RT: 3.30 min Scan# 160
Delta R.T. -0.03 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Tgt Ion: 39 Resp: 176200
Ion Ratio Lower Upper
39 100
54 7.6 61.2 91.8#

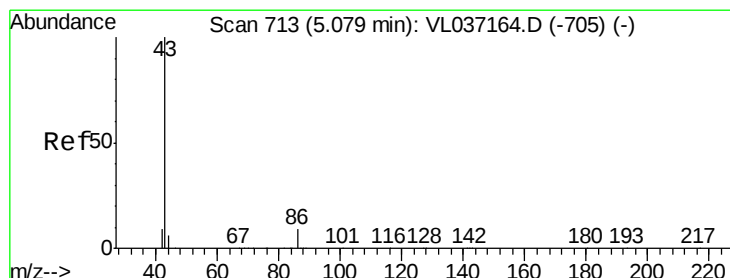
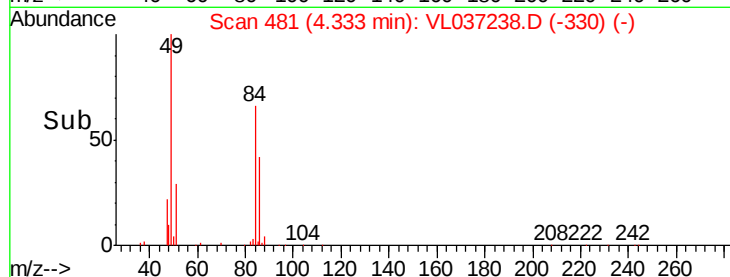
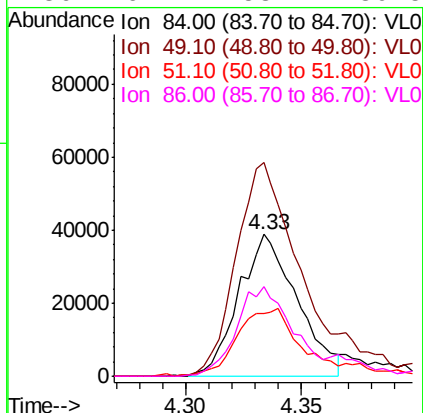
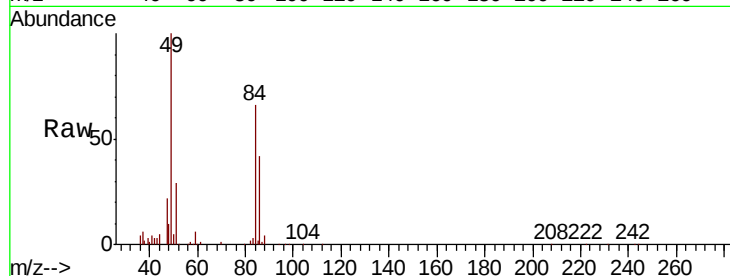




#20
Methvlene Chloride
Concen: 0.637 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

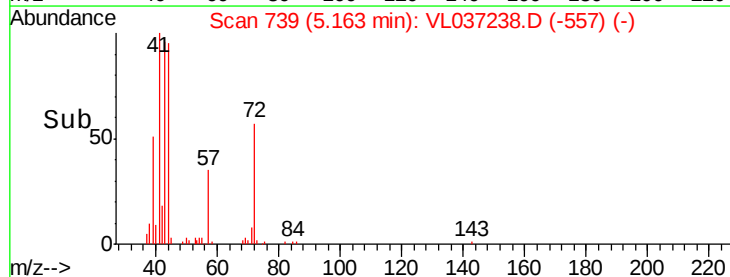
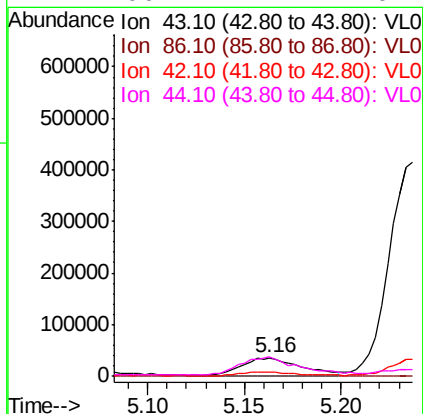
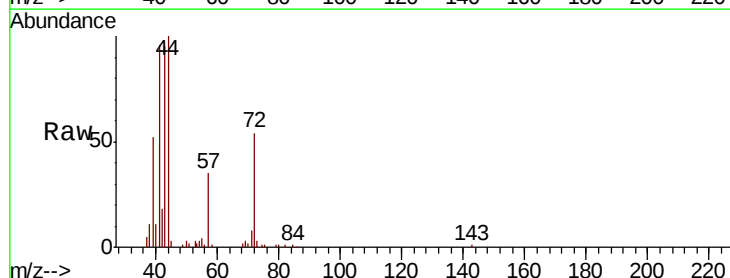
Instrument :
MSVOA_L
ClientSampleId :

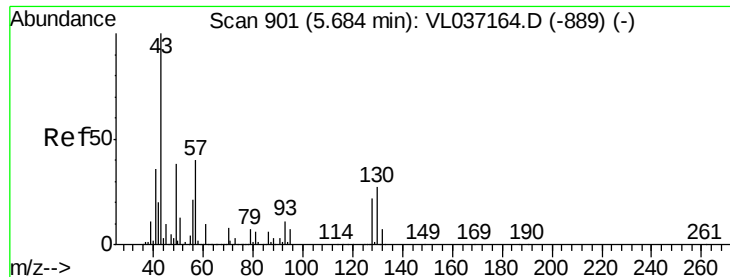
Tot Ion:	84	Resp:	67962
Ion	Ratio	Lower	Upper
84	100		
49	149.4	119.7	179.5
51	43.2	36.1	54.1
86	62.2	53.7	80.5



#23
Vinyl Acetate
Concen: 0.280 ppbv
RT: 5.16 min Scan# 739
Delta R.T. 0.08 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Tgt Ion:	43	Resp:	71593
Ion	Ratio	Lower	Upper
43	100		
86	0.5	5.8	8.8#
42	17.8	8.2	12.2#
44	100.2	4.2	6.4#

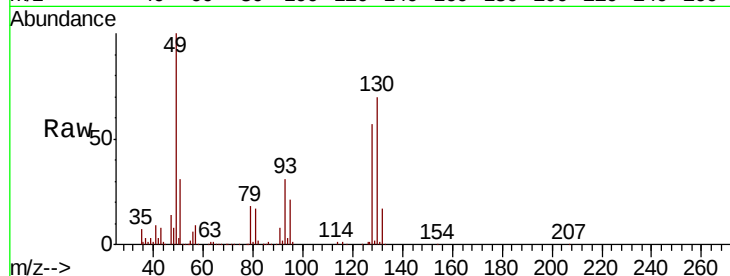




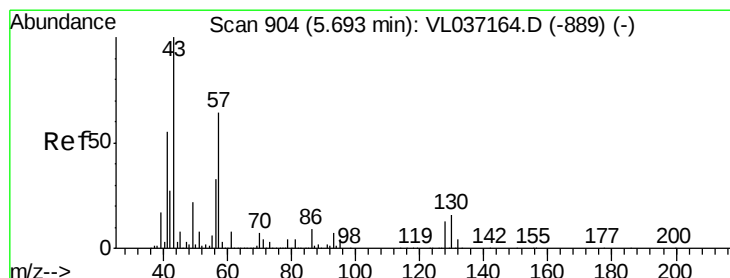
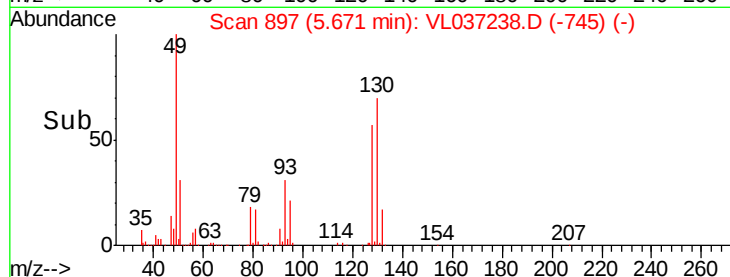
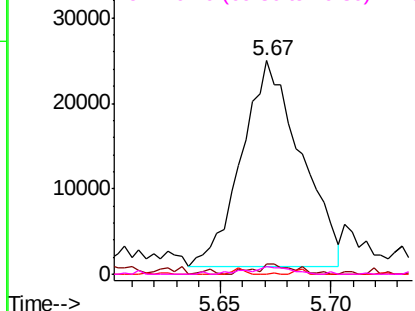
#25
Ethyl Acetate
Concen: 0.116 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	44900
Ion	Ratio	Lower	Upper
43	100		
45	4.2	8.0	12.0#
61	0.5	8.1	12.1#
70	2.9	5.5	8.3#

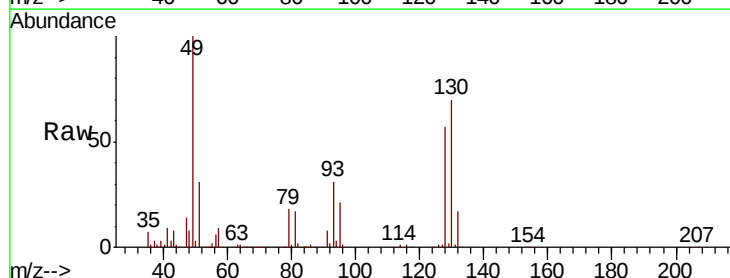


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

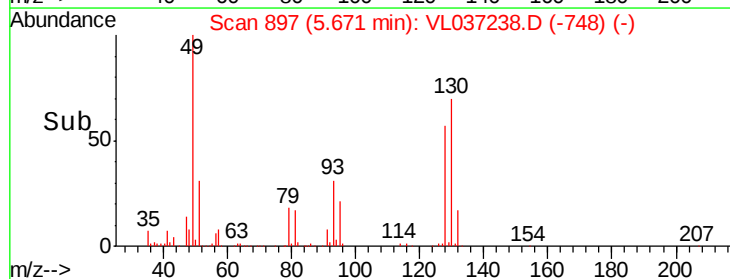
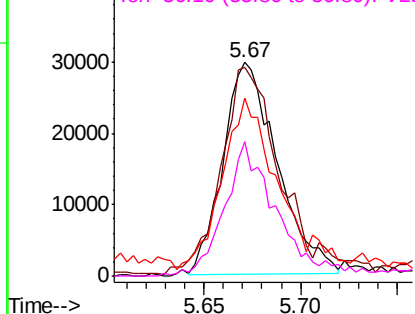


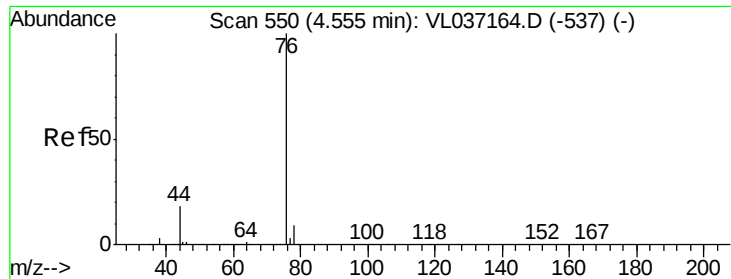
#26
Hexane
Concen: 0.299 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Tgt Ion:	57	Resp:	58280
Ion	Ratio	Lower	Upper
57	100		
41	116.9	73.5	110.3#
43	89.5	170.7	256.1#
56	61.2	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





#27

Carbon Disulfide

Concen: 0.071 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.02 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

Instrument :

MSVOA_L

ClientSampleId :

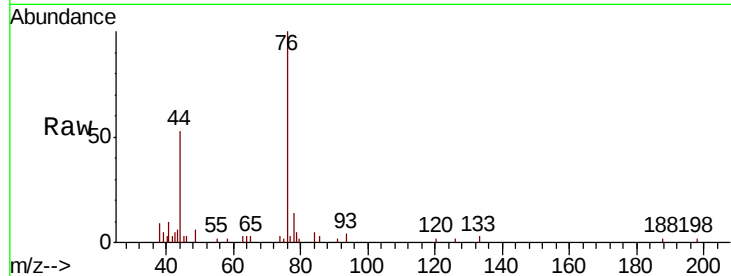
Tot Ion: 76 Resp: 13553

Ion Ratio Lower Upper

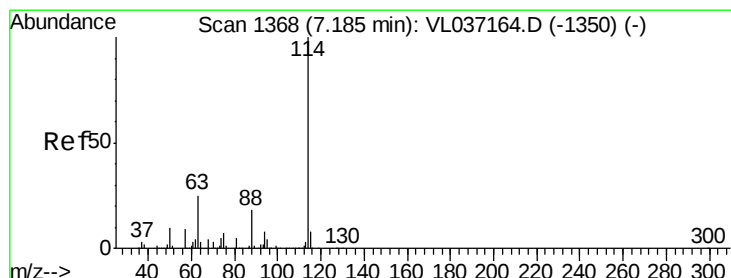
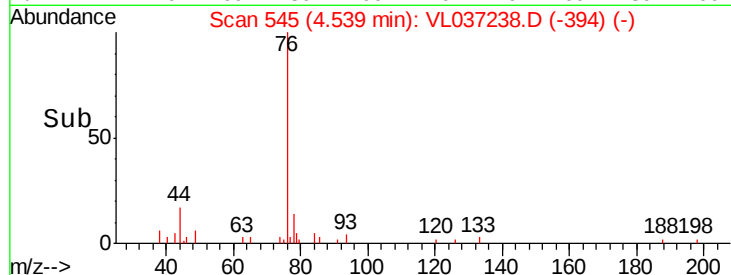
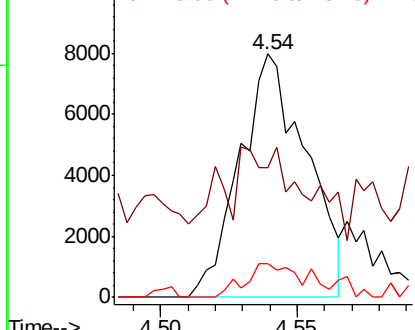
76 100

44 72.3 15.4 23.2#

78 15.0 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.03 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

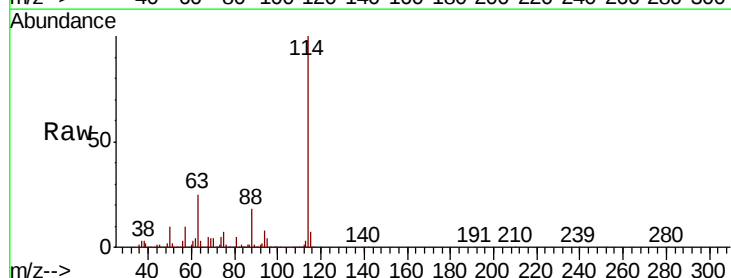
Tgt Ion: 114 Resp: 4562603

Ion Ratio Lower Upper

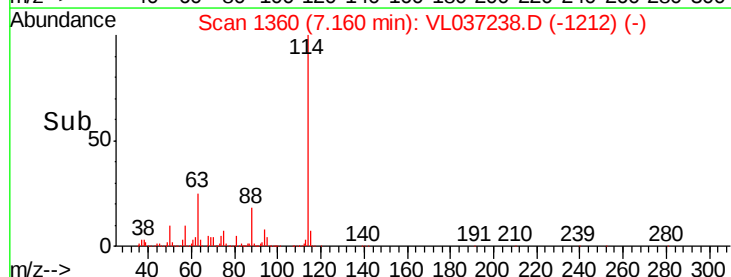
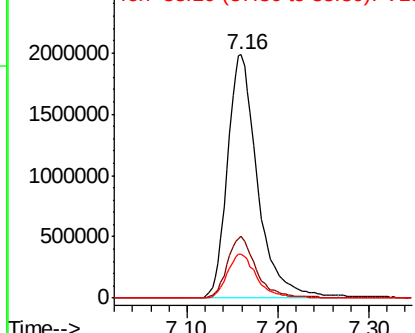
114 100

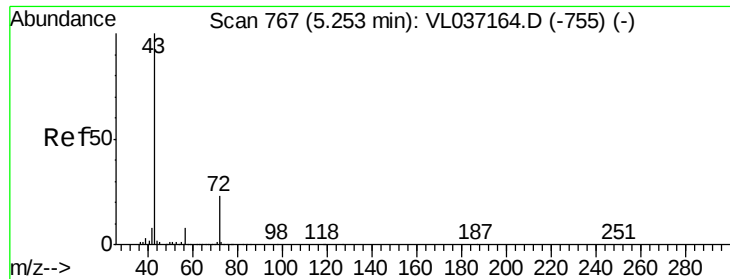
63 24.7 19.6 29.4

88 18.0 14.2 21.2



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

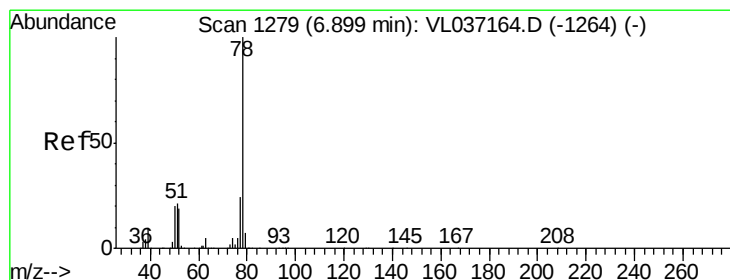
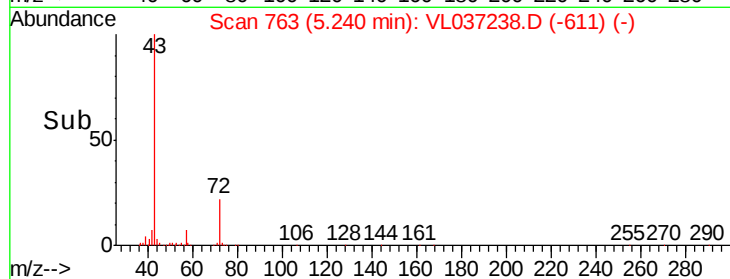
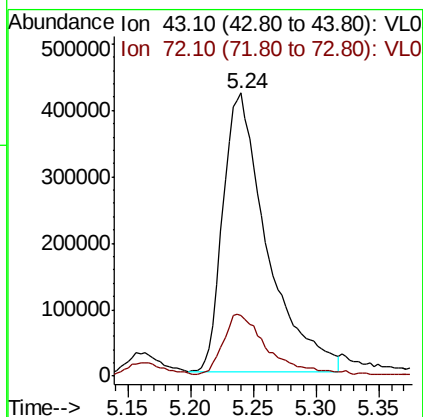
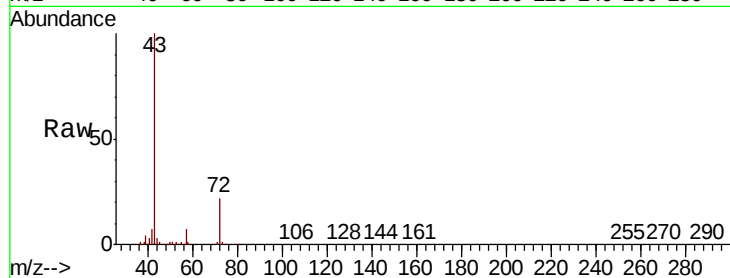




#34
2-Butanone
Concen: 5.771 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.01 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

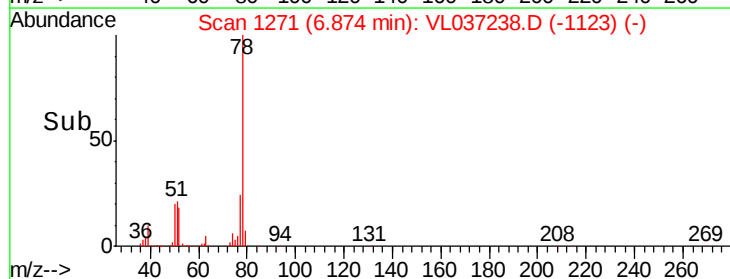
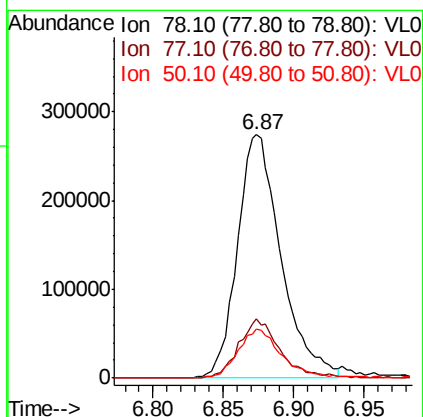
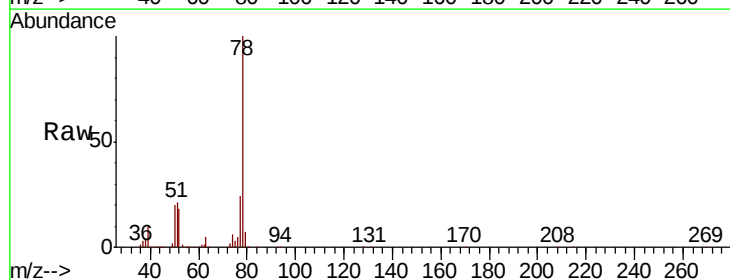
Instrument :
MSVOA_L
ClientSampleId :

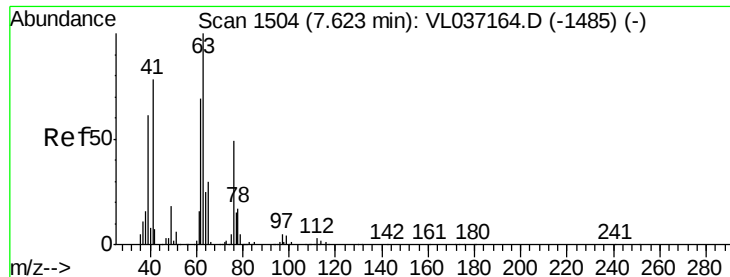
Tot Ion: 43 Resp: 1023968
Ion Ratio Lower Upper
43 100
72 23.1 18.9 28.3



#36
Benzene
Concen: 1.609 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.03 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Tgt Ion: 78 Resp: 593606
Ion Ratio Lower Upper
78 100
77 24.1 19.0 28.6
50 20.3 15.7 23.5





#39

1,2-Dichloropropane

Concen: 8.046 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.46 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

Instrument :

MSVOA_L

ClientSampleId :

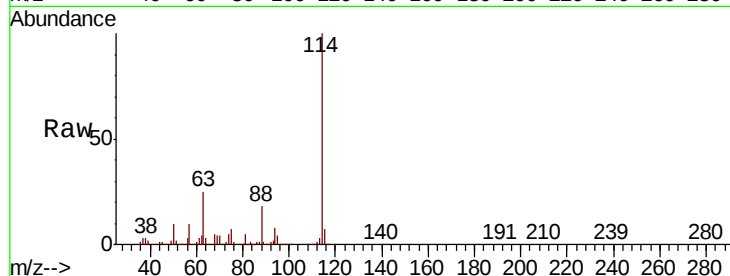
Tot Ion: 63 Resp: 1103051

Ion Ratio Lower Upper

63 100

41 0.3 62.0 93.0#

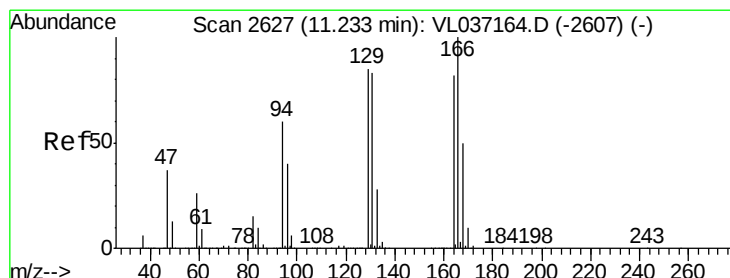
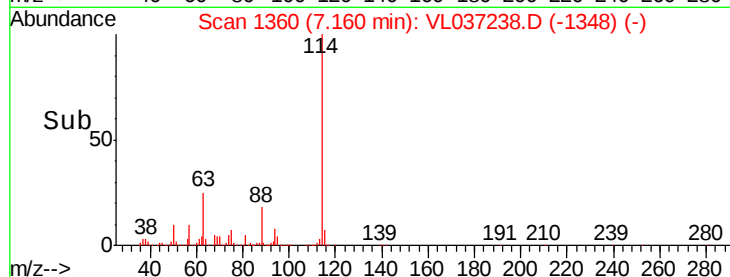
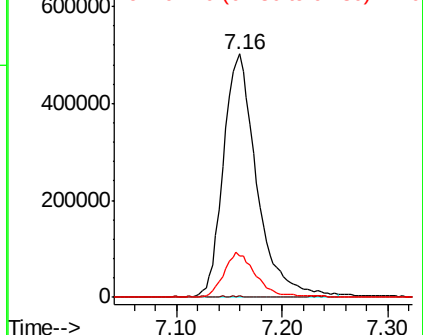
62 17.1 54.9 82.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 0.058 ppbv

RT: 11.20 min Scan# 2617

Delta R.T. -0.03 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

Tgt Ion:164 Resp: 9995

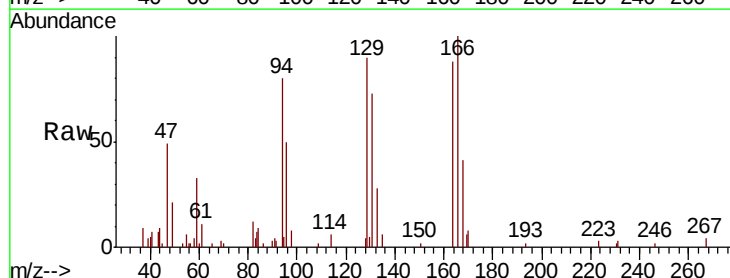
Ion Ratio Lower Upper

164 100

166 113.5 97.6 146.4

129 107.5 82.9 124.3

131 83.2 80.6 120.8

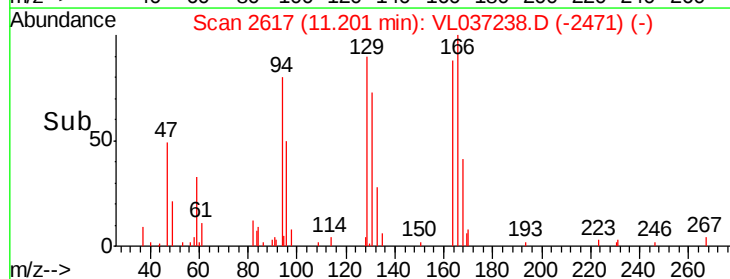
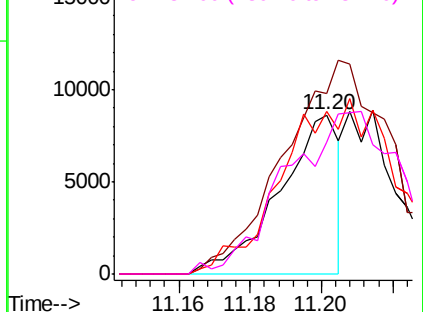


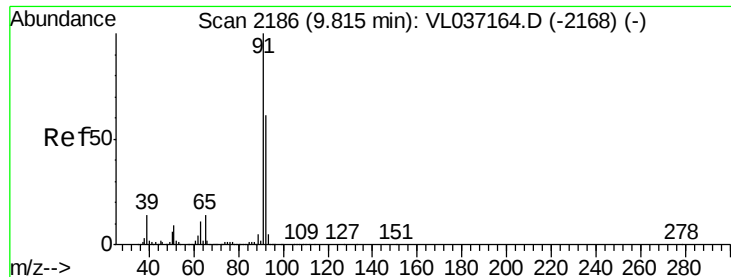
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.410 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.03 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

Instrument :

MSVOA_L

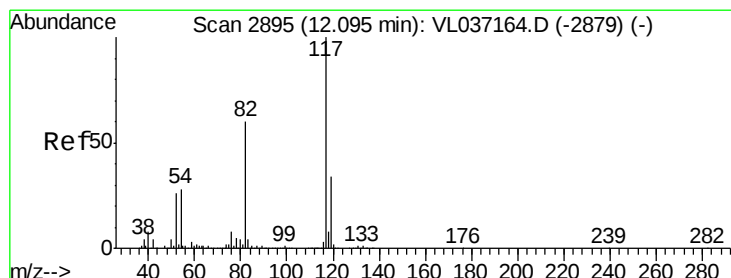
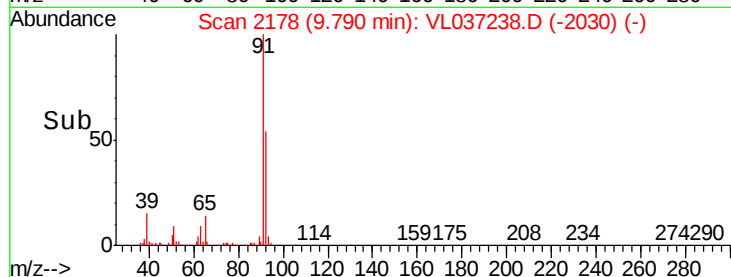
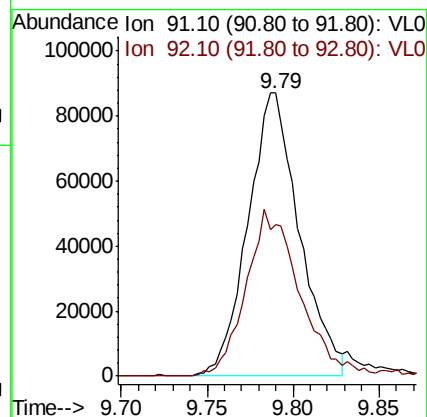
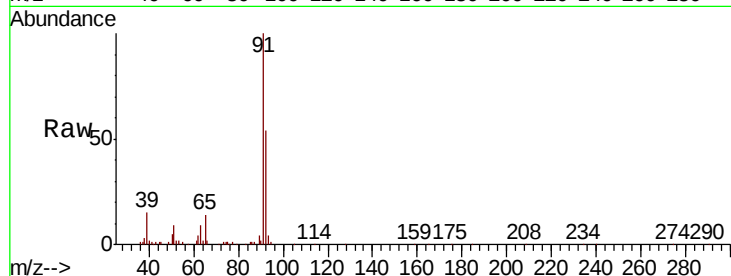
ClientSampleId :

Tot Ion: 91 Resp: 180654

Ion Ratio Lower Upper

91 100

92 62.9 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL037238.D

Acq: 23 Jun 2021 9:07

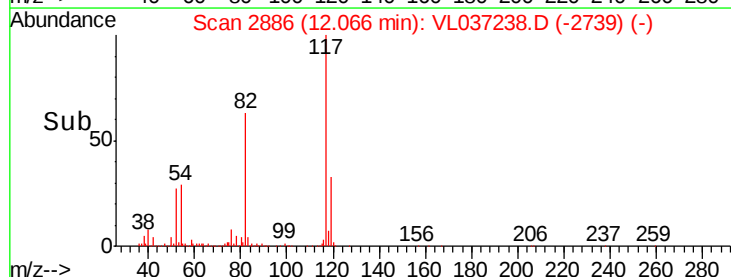
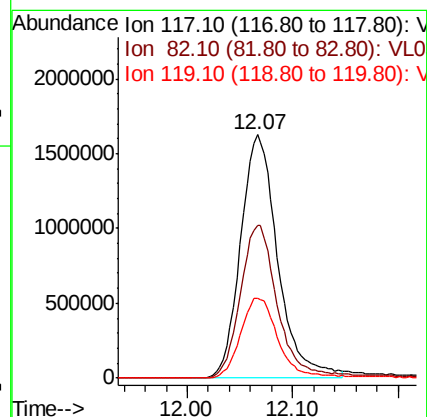
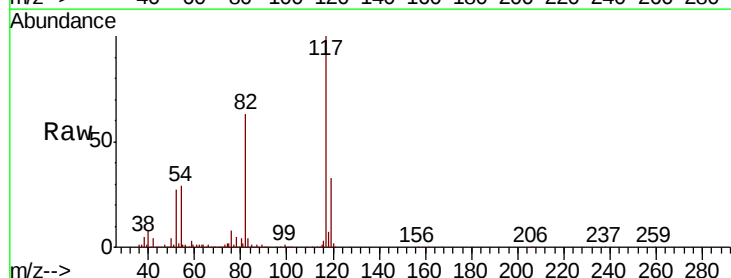
Tgt Ion: 117 Resp: 3987244

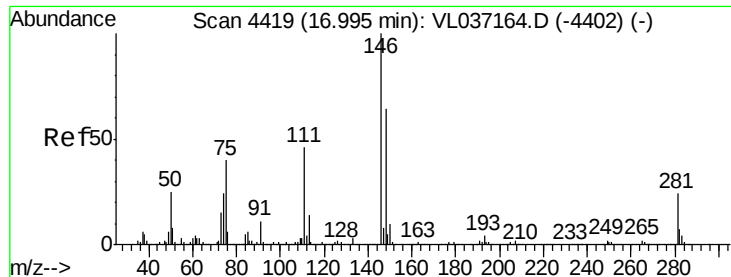
Ion Ratio Lower Upper

117 100

82 64.8 51.7 77.5

119 34.4 47.6 71.4#

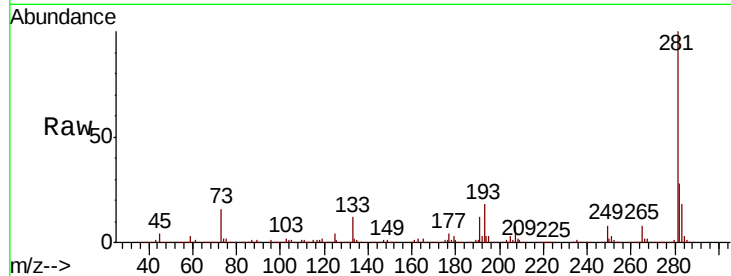




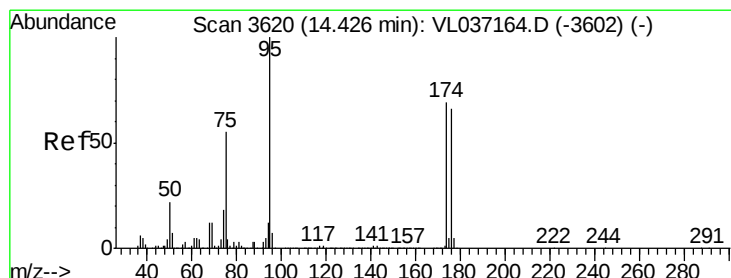
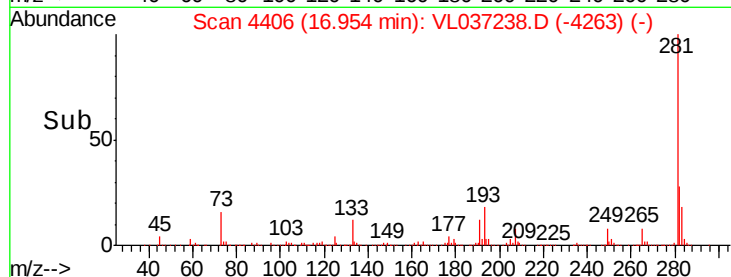
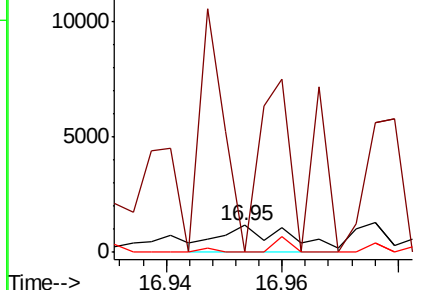
#66
Benzyl Chloride
Concen: 0.043 ppbv
RT: 16.95 min Scan# 4406
Delta R.T. -0.04 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 91 Resp: 1008
Ion Ratio Lower Upper
91 100
126 1580.4 15.5 23.3#
128 41.4 5.7 8.5#

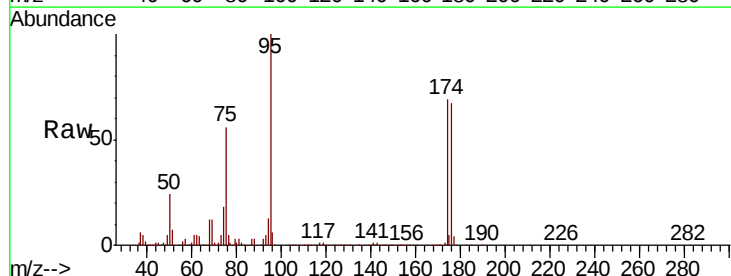


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.438 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.03 min
Lab File: VL037238.D
Acq: 23 Jun 2021 9:07

Tgt Ion: 95 Resp: 2851595
Ion Ratio Lower Upper
95 100
174 76.7 57.0 85.4
175 5.3 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

