

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037112.D
 Acq On : 2 Jun 2021 22:14
 Operator : SY/AP
 Sample : M2548-13
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

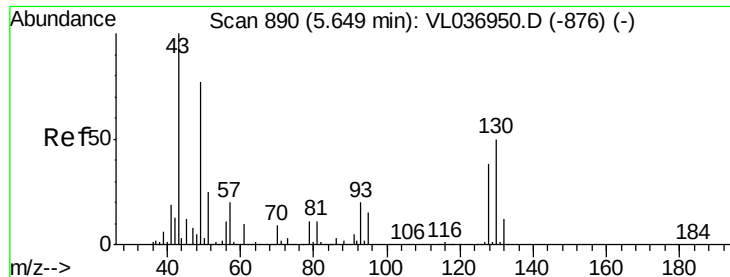
Quant Time: Jun 03 03:23:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1395371	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3998106	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3493508	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2573572	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	76083	0.321	ppbv	99
3) Chlorodifluoromethane	2.98	51	95240	0.373	ppbv #	87
4) Chloromethane	3.13	50	57638	0.663	ppbv #	88
7) Chloroethane	3.55	64	988	0.032	ppbv #	75
9) Propene	3.01	41	73600	0.804	ppbv #	78
11) Trichlorofluoromethane	3.94	101	133284	0.608	ppbv	93
13) Ethanol	3.60	45	557722	45.665	ppbv	94
15) Acetone	3.84	43	2908829	20.352	ppbv	97
16) 1,3-Butadiene	3.29	39	27808	0.313	ppbv #	30
19) Isopropyl Alcohol	3.99	45	13881	0.181	ppbv #	30
20) Methylene Chloride	4.33	84	2627397	34.295	ppbv	97
21) Allyl Chloride	4.33	41	100009	0.928	ppbv #	31
25) Ethyl Acetate	5.67	43	180924	0.527	ppbv #	78
26) Hexane	5.67	57	263278	1.501	ppbv #	46
34) 2-Butanone	5.24	43	46080	0.317	ppbv #	52
39) 1,2-Dichloropropane	7.16	63	945462	7.127	ppbv #	26

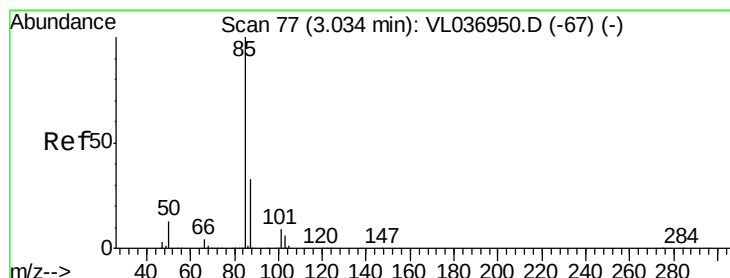
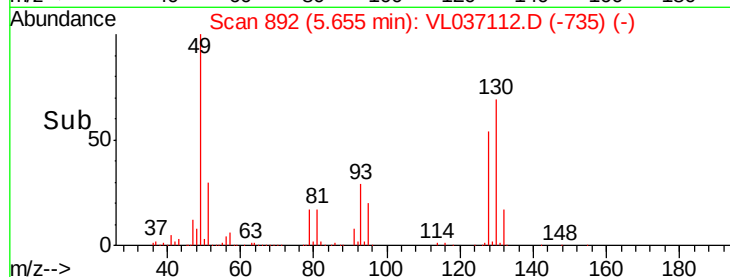
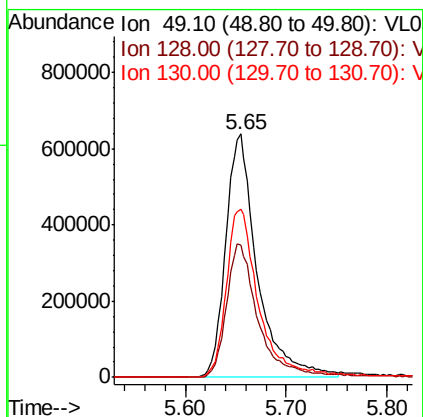
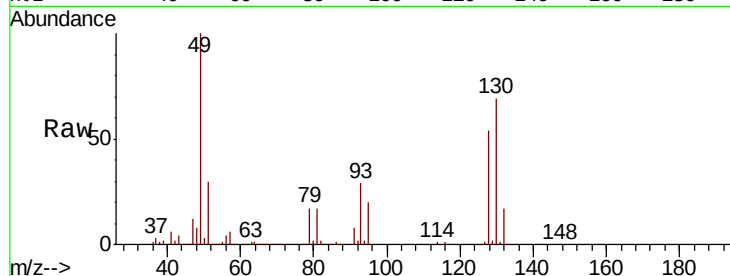
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VL037112.D
 Acq: 2 Jun 2021 22:14

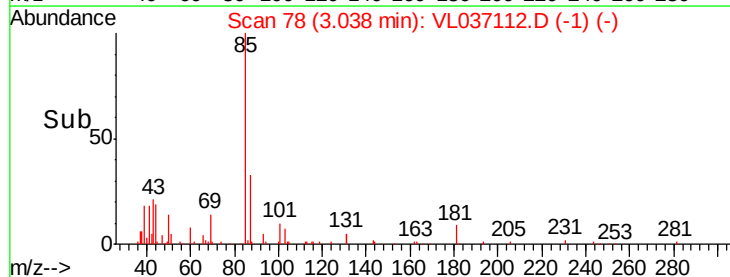
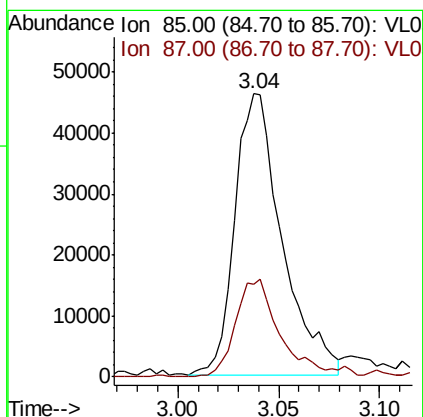
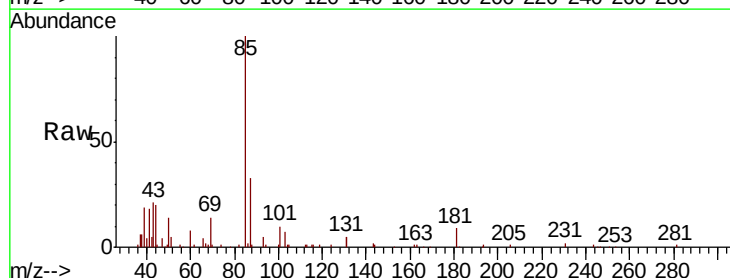
Instrument :
 MSVOA_L
 ClientSampleId :

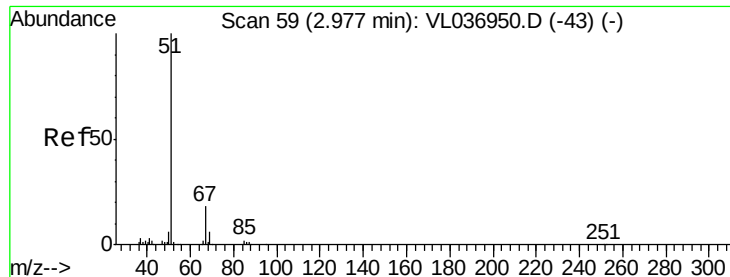
Tot Ion: 49 Resp: 1395371
 Ion Ratio Lower Upper
 49 100
 128 55.1 26.9 80.7
 130 72.8 33.8 101.4



#2
 Dichlorodifluoromethane
 Concen: 0.321 ppbv
 RT: 3.04 min Scan# 78
 Delta R.T. 0.00 min
 Lab File: VL037112.D
 Acq: 2 Jun 2021 22:14

Tgt Ion: 85 Resp: 76083
 Ion Ratio Lower Upper
 85 100
 87 32.8 26.6 39.8

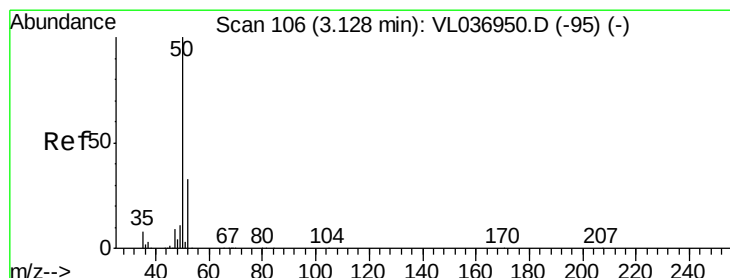
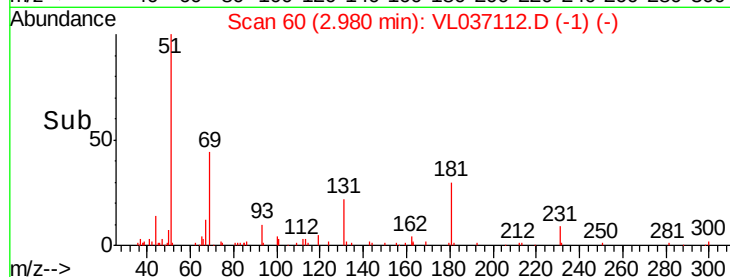
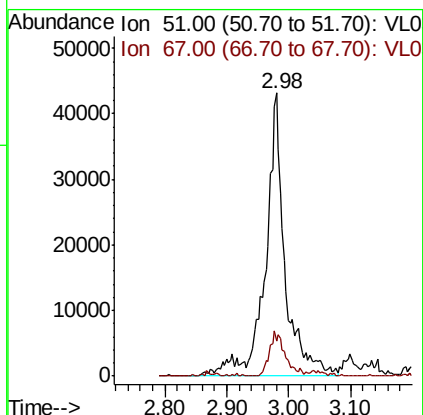
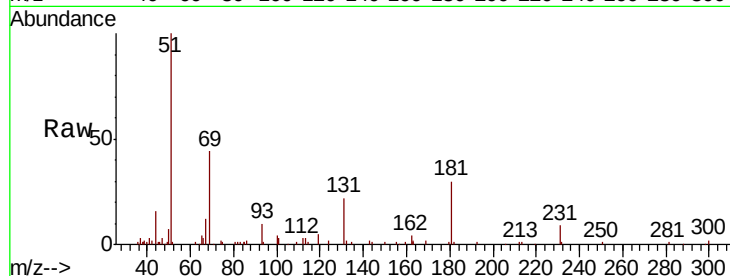




#3
Chlorodifluoromethane
Concen: 0.373 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.00 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

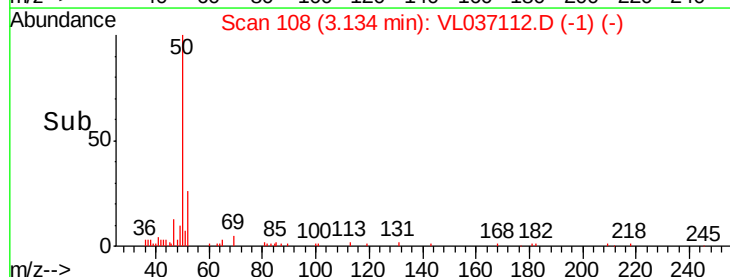
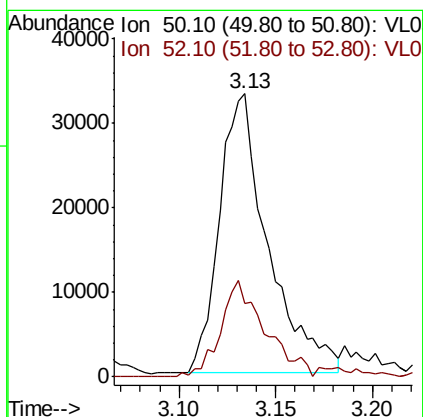
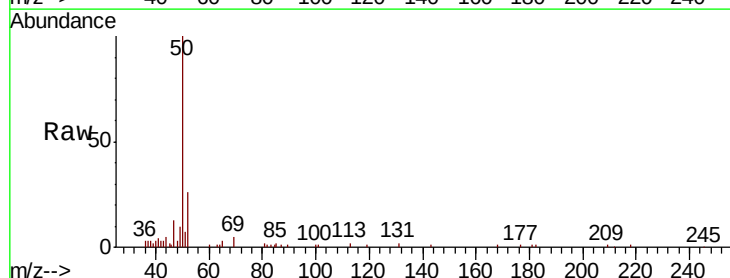
Instrument :
MSVOA_L
ClientSampleId :

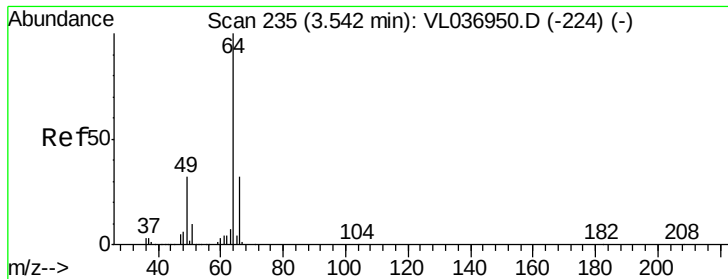
Tot Ion: 51 Resp: 95240
Ion Ratio Lower Upper
51 100
67 12.6 14.6 21.8#



#4
Chloromethane
Concen: 0.663 ppbv
RT: 3.13 min Scan# 108
Delta R.T. 0.01 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

Tgt Ion: 50 Resp: 57638
Ion Ratio Lower Upper
50 100
52 26.1 26.1 39.1#





#7

Chloroethane

Concen: 0.032 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL037112.D

Acq: 2 Jun 2021 22:14

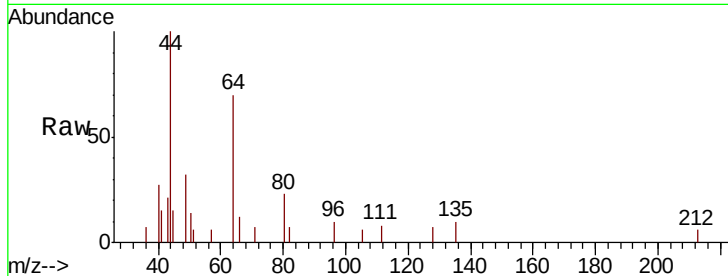
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 64 Resp: 988

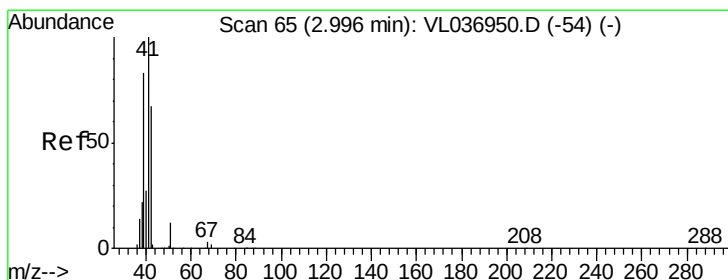
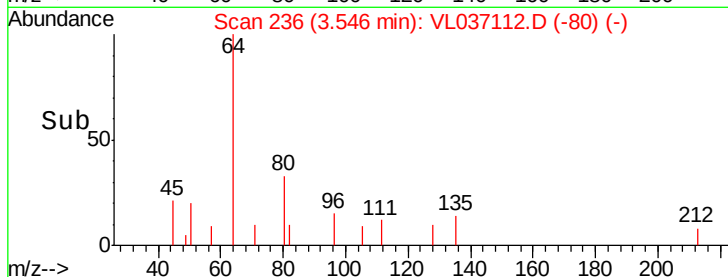
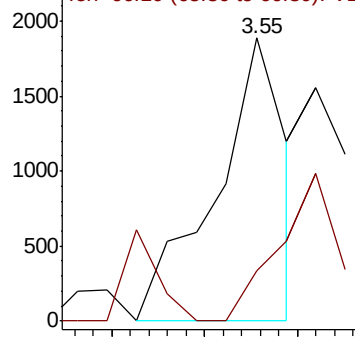
Ion Ratio Lower Upper

64 100

66 17.9 25.4 38.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0
Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.804 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037112.D

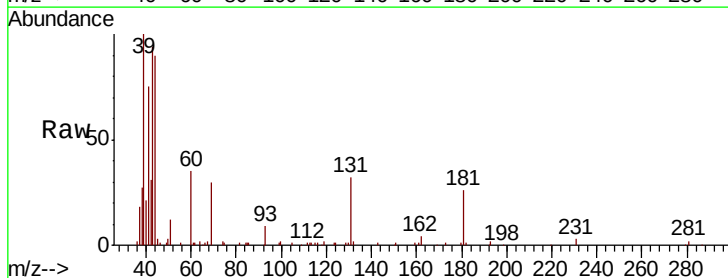
Acq: 2 Jun 2021 22:14

Tgt Ion: 41 Resp: 73600

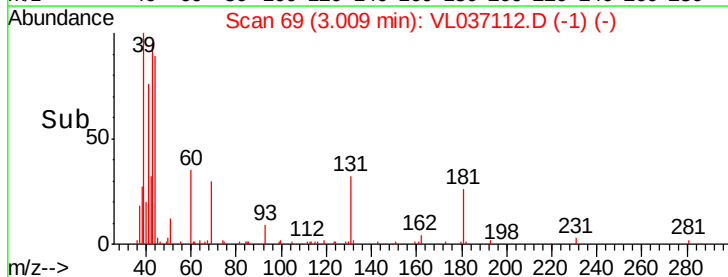
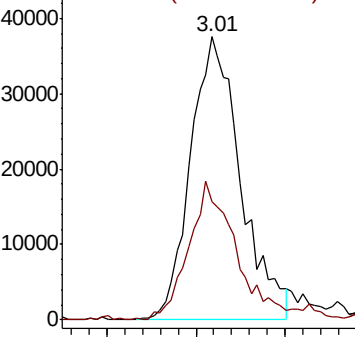
Ion Ratio Lower Upper

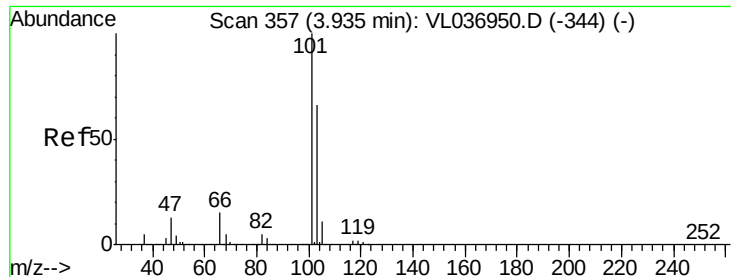
41 100

42 49.8 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0

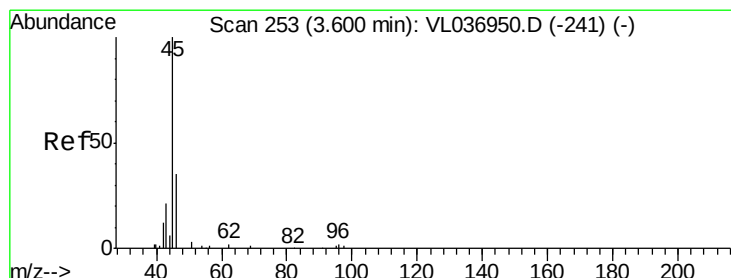
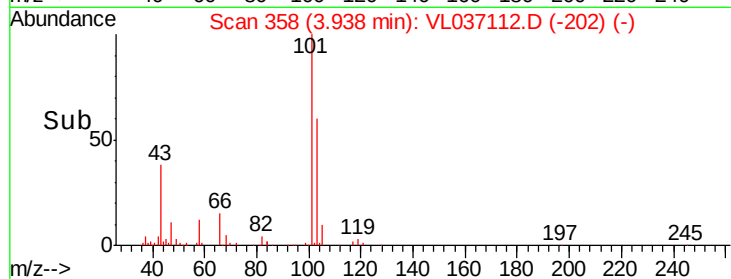
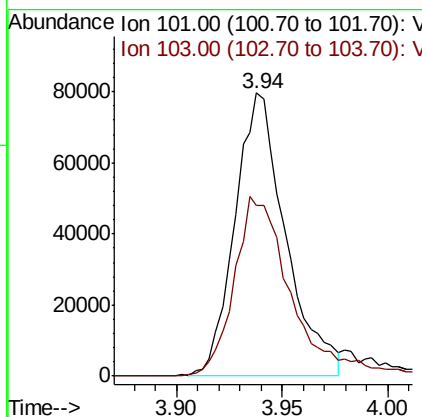
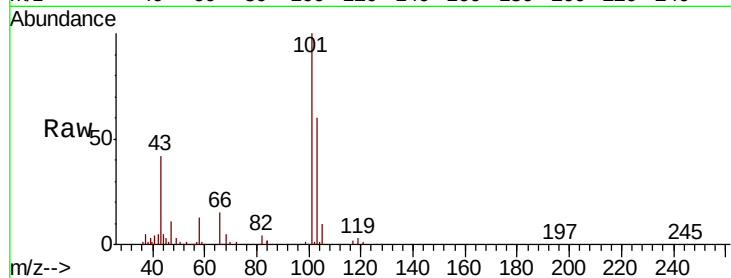




#11
 Trichlorofluoromethane
 Concen: 0.608 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL037112.D
 Acq: 2 Jun 2021 22:14

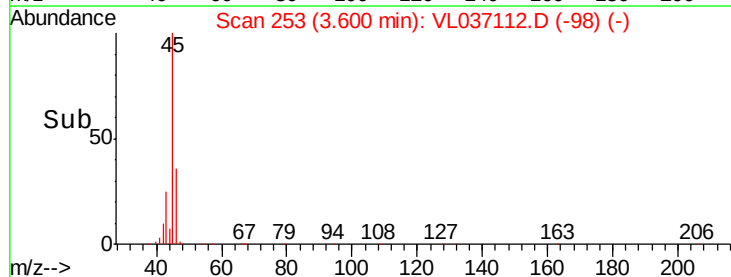
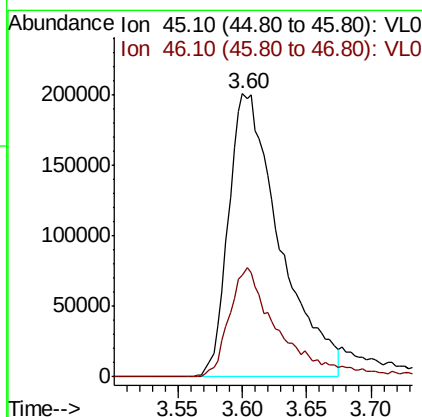
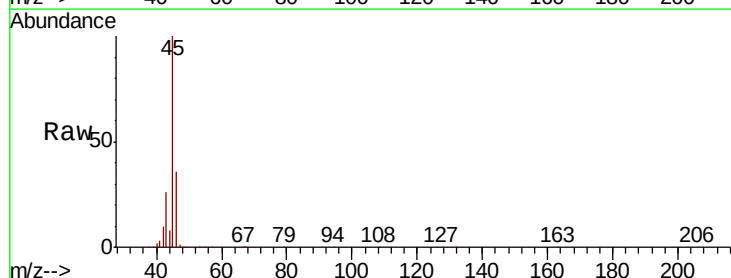
Instrument :
 MSVOA_L
 ClientSampleId :

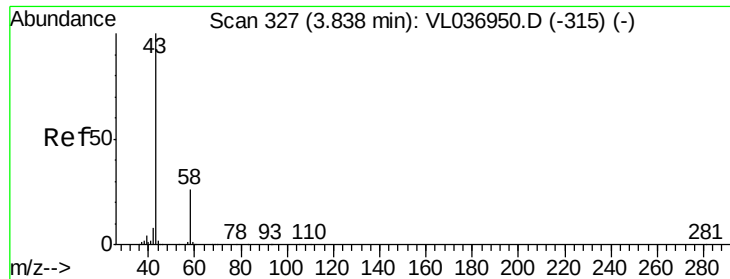
Tot Ion:101 Resp: 133284
 Ion Ratio Lower Upper
 101 100
 103 59.9 52.6 79.0



#13
 Ethanol
 Concen: 45.665 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL037112.D
 Acq: 2 Jun 2021 22:14

Tgt Ion: 45 Resp: 557722
 Ion Ratio Lower Upper
 45 100
 46 37.4 16.3 65.3

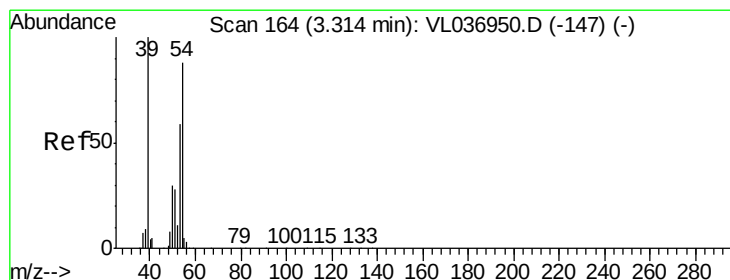
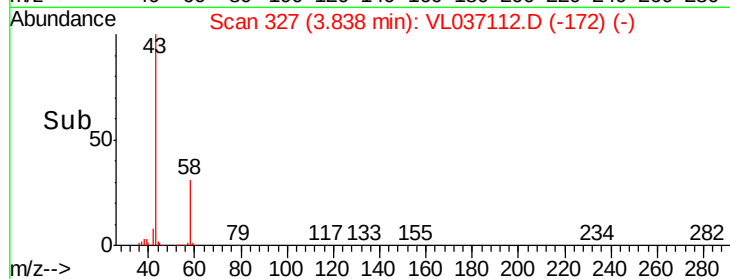
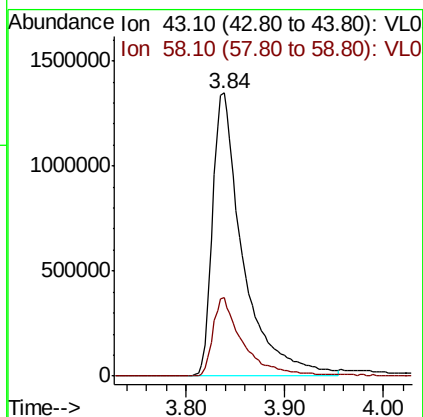
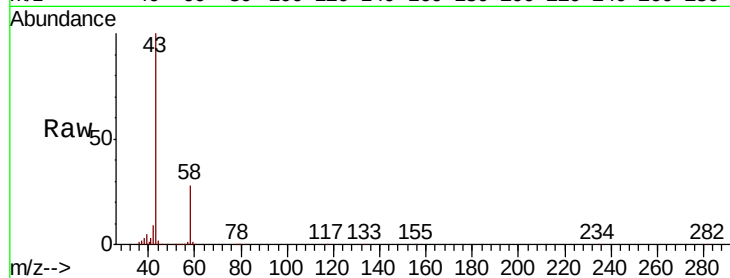




#15
Acetone
Concen: 20.352 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

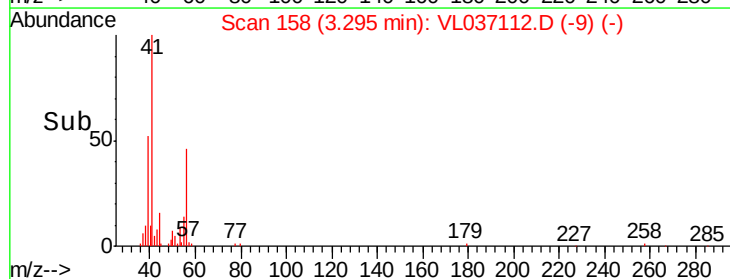
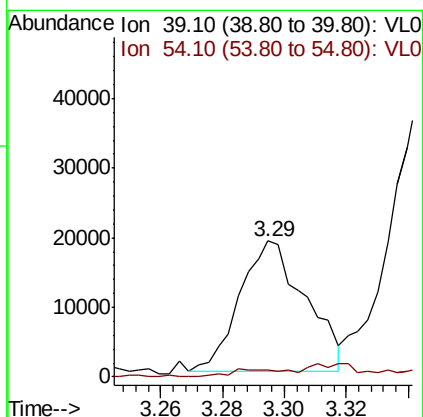
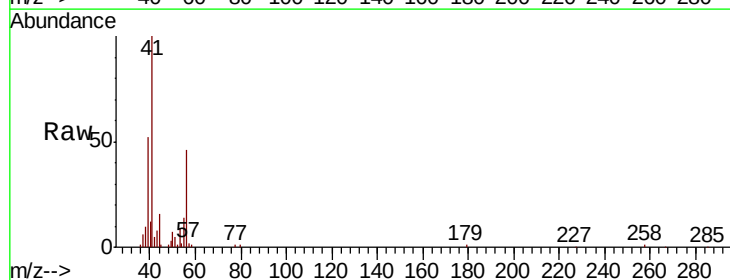
Instrument :
MSVOA_L
ClientSampled :

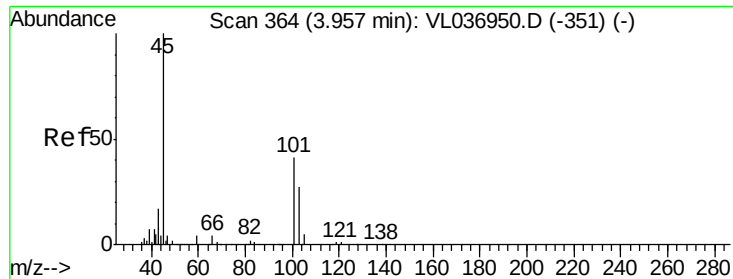
Tot Ion: 43 Resp: 2908829
Ion Ratio Lower Upper
43 100
58 28.3 24.0 36.0



#16
1,3-Butadiene
Concen: 0.313 ppbv
RT: 3.29 min Scan# 158
Delta R.T. -0.02 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

Tgt Ion: 39 Resp: 27808
Ion Ratio Lower Upper
39 100
54 17.4 63.2 94.8#



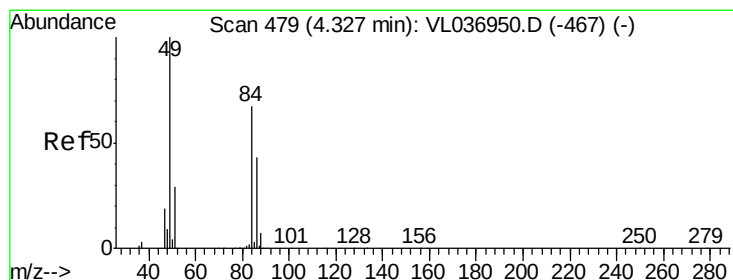
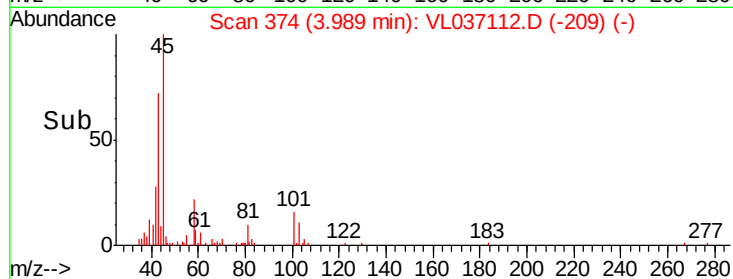
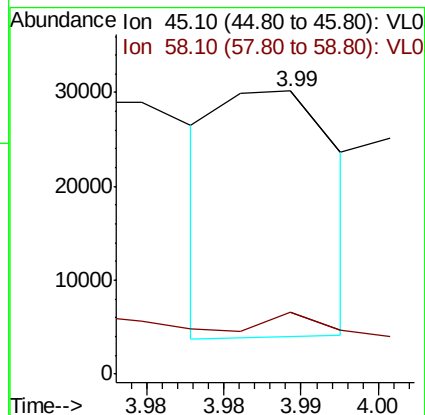
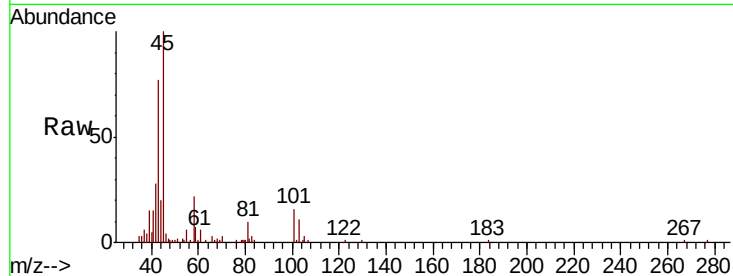


#19

Isopropyl Alcohol
 Concen: 0.181 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.03 min
 Lab File: VL037112.D
 Acq: 2 Jun 2021 22:14

Instrument :
 MSVOA_L
 ClientSampleId :

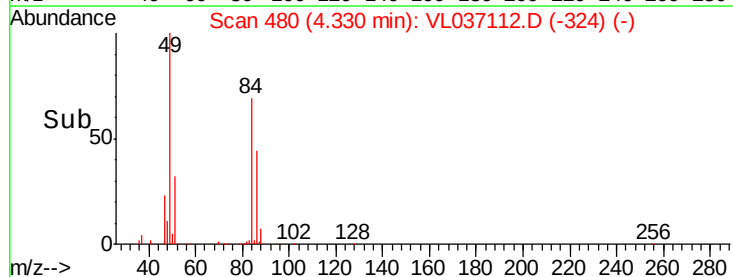
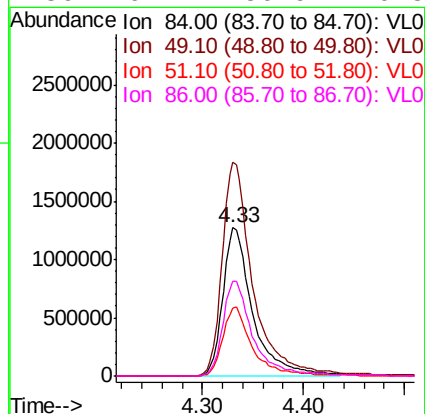
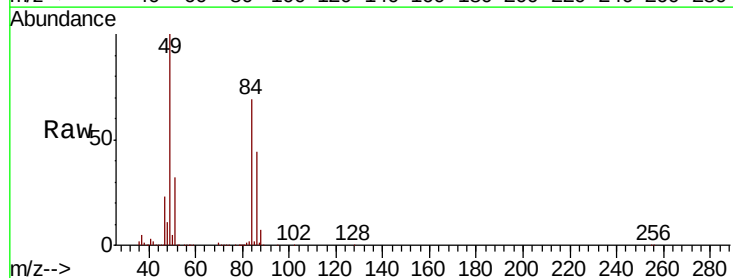
Tot Ion: 45 Resp: 13881
 Ion Ratio Lower Upper
 45 100
 58 0.0 37.2 55.8#

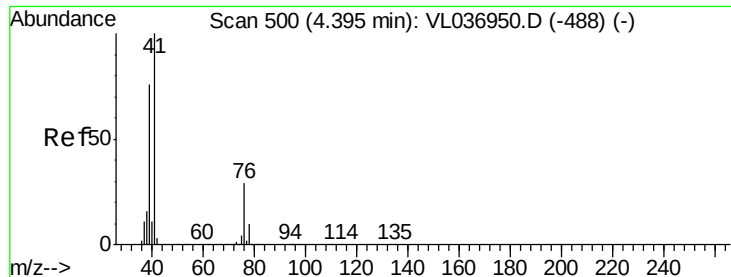


#20

Methylene Chloride
 Concen: 34.295 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL037112.D
 Acq: 2 Jun 2021 22:14

Tgt Ion: 84 Resp: 2627397
 Ion Ratio Lower Upper
 84 100
 49 144.4 119.8 179.6
 51 46.0 35.1 52.7
 86 64.2 50.9 76.3





#21

Allvl Chloride

Concen: 0.928 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.06 min

Lab File: VL037112.D

Acq: 2 Jun 2021 22:14

Instrument :

MSVOA_L

ClientSampleId :

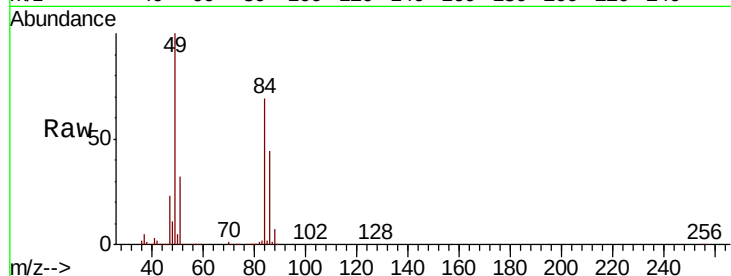
Tot Ion: 41 Resp: 100009

Ion Ratio Lower Upper

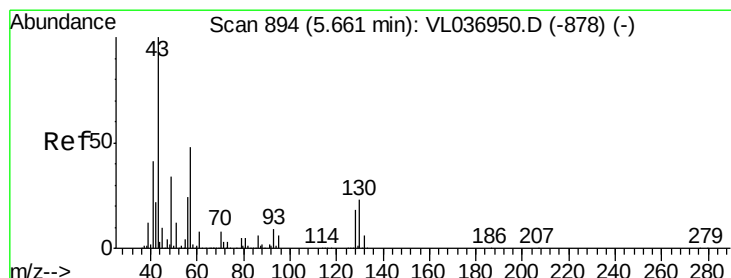
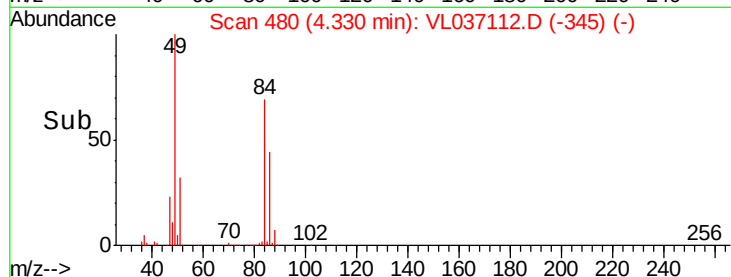
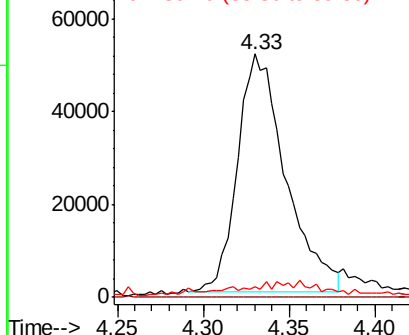
41 100

76 0.0 24.9 37.3#

39 14.7 63.7 95.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#25

Ethyl Acetate

Concen: 0.527 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037112.D

Acq: 2 Jun 2021 22:14

Tgt Ion: 43 Resp: 180924

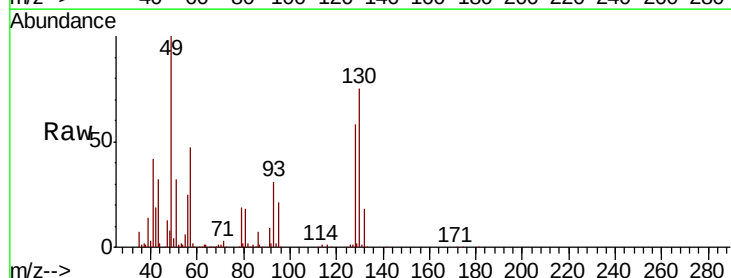
Ion Ratio Lower Upper

43 100

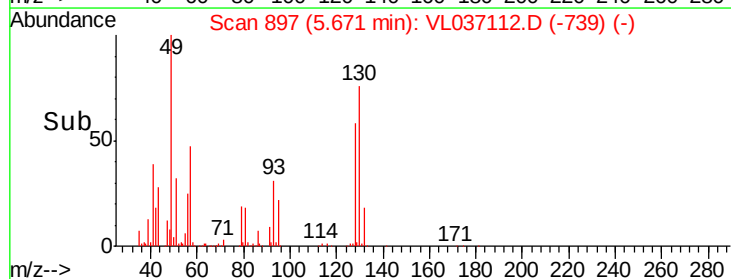
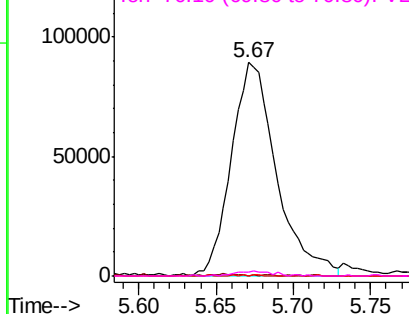
45 0.9 7.8 11.8#

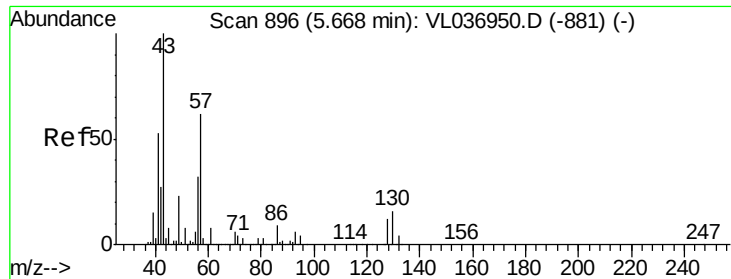
61 0.3 7.8 11.8#

70 2.1 5.6 8.4#



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: 1.501 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL037112.D

Acq: 2 Jun 2021 22:14

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 263278

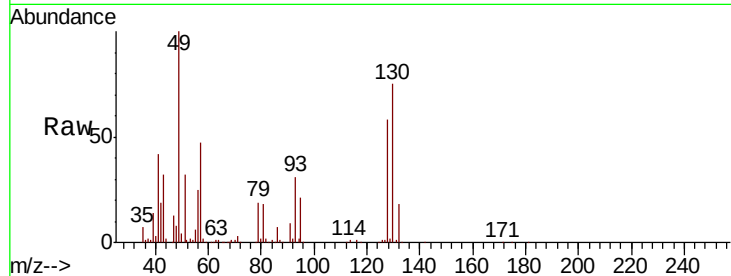
Ion Ratio Lower Upper

57 100

41 93.7 70.5 105.7

43 71.8 165.8 248.8#

56 55.0 42.2 63.4

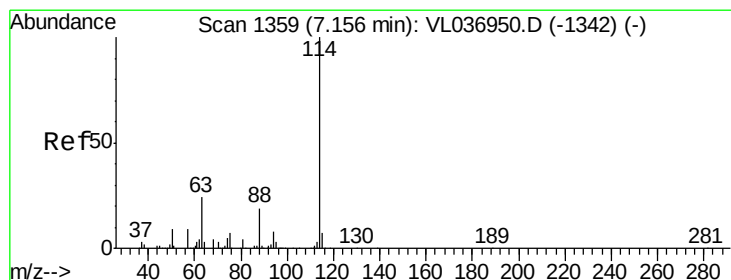
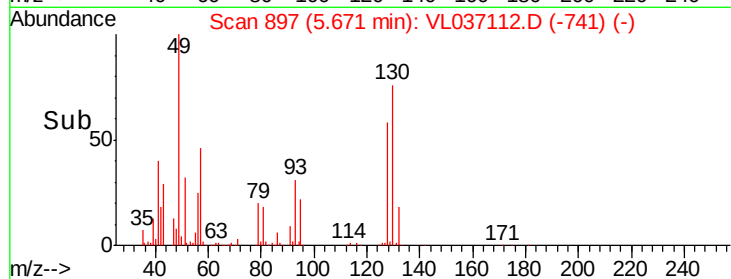
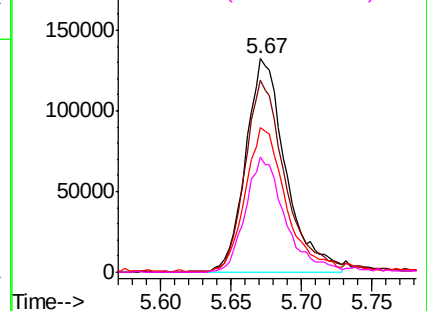


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL037112.D

Acq: 2 Jun 2021 22:14

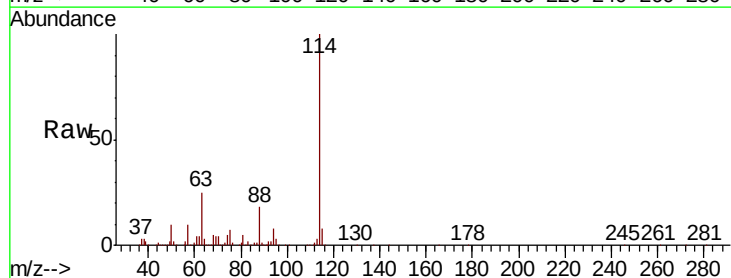
Tgt Ion: 114 Resp: 3998106

Ion Ratio Lower Upper

114 100

63 24.5 19.6 29.4

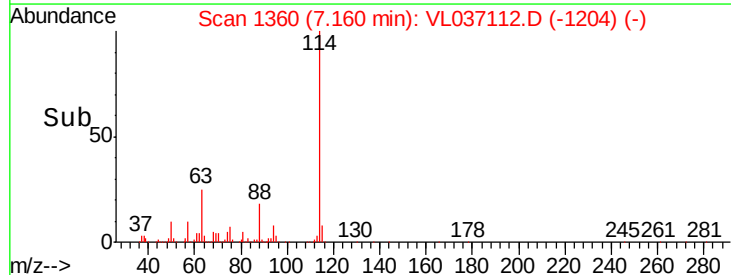
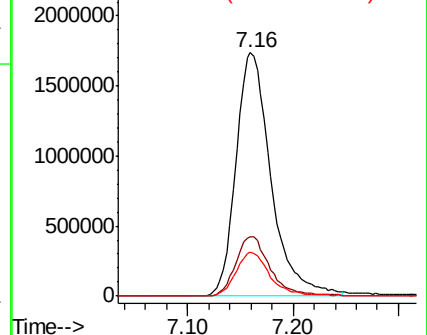
88 17.9 14.6 21.8

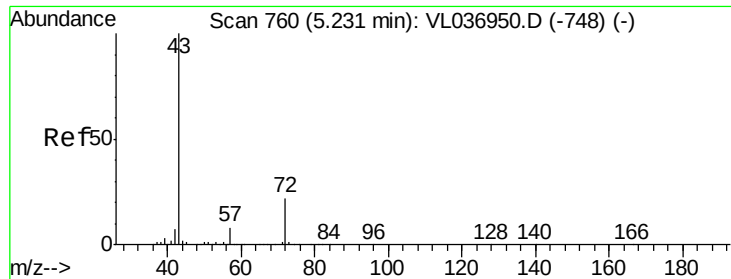


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

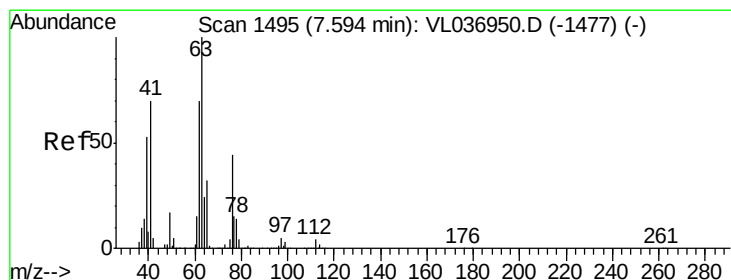
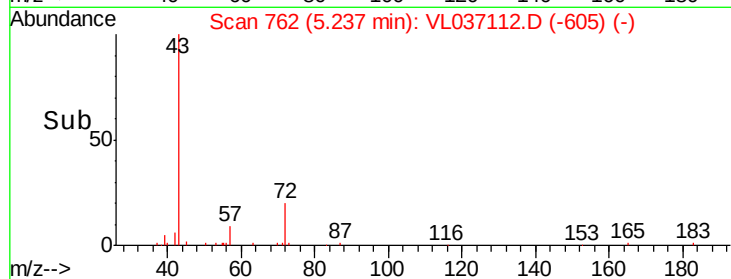
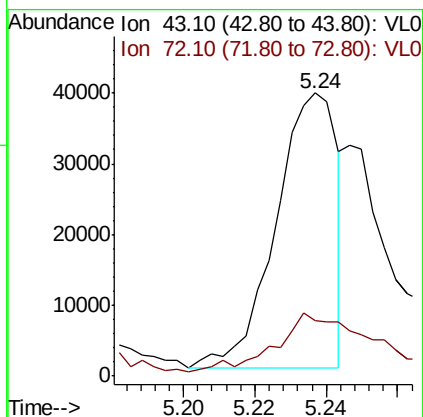
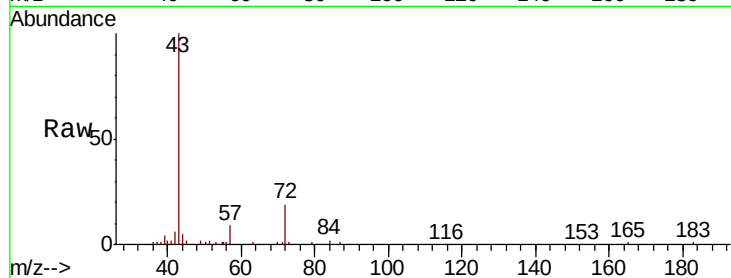




#34
2-Butanone
Concen: 0.317 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.01 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

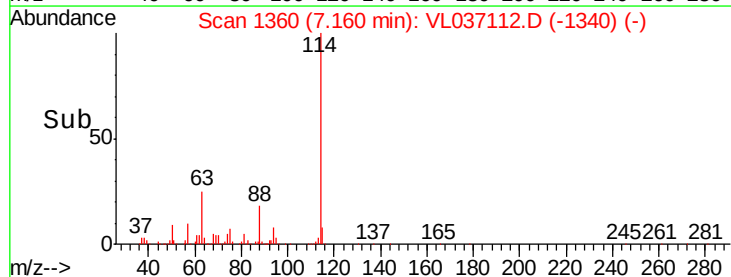
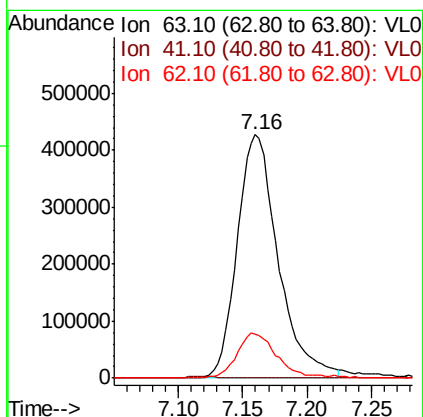
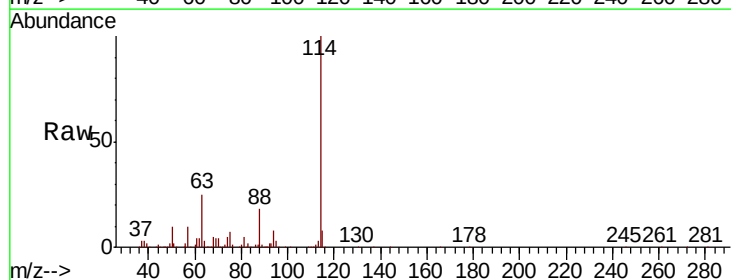
Instrument :
MSVOA_L
ClientSampleId :

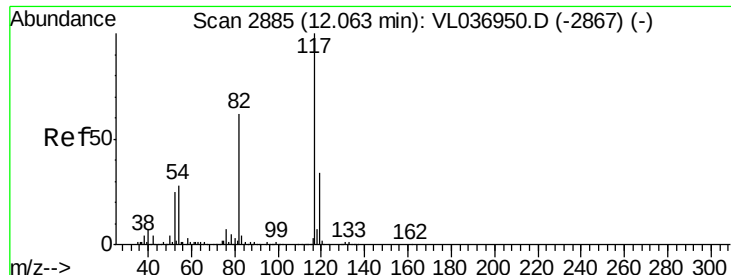
Tot Ion: 43 Resp: 46080
Ion Ratio Lower Upper
43 100
72 47.4 19.0 28.4#



#39
1,2-Dichloropropane
Concen: 7.127 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.43 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

Tgt Ion: 63 Resp: 945462
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 18.2 56.2 84.4#

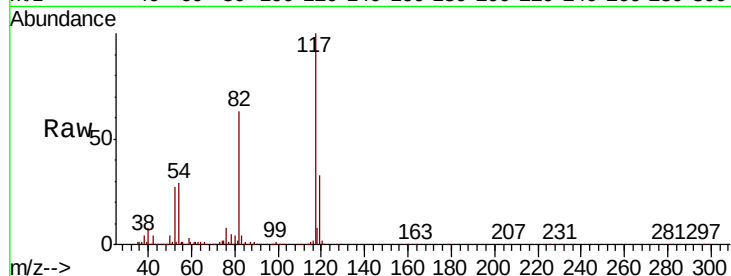




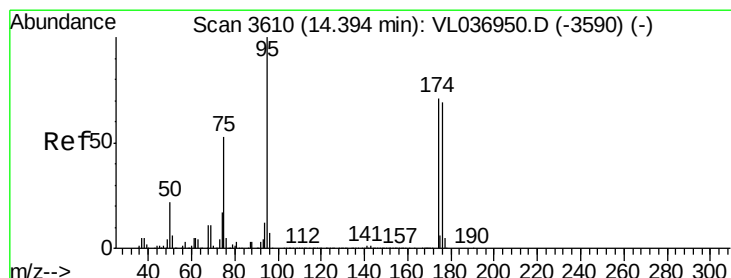
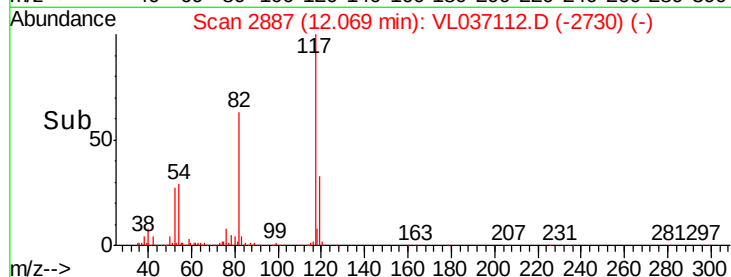
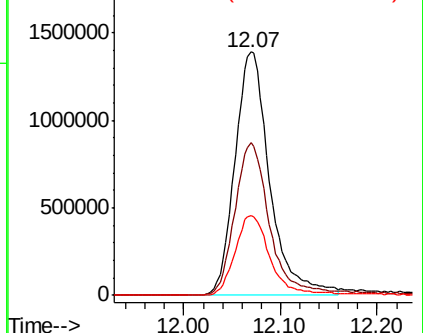
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.01 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3493508
Ion Ratio Lower Upper
117 100
82 64.0 52.6 79.0
119 33.9 46.6 70.0#

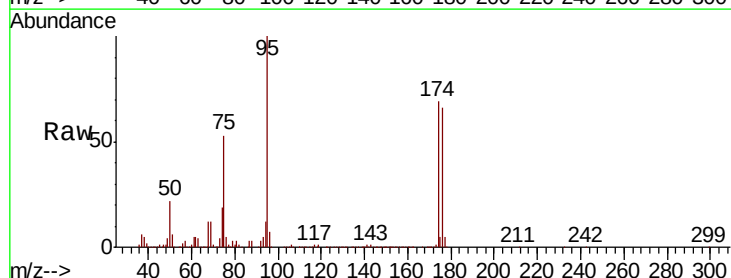


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.806 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. 0.01 min
Lab File: VL037112.D
Acq: 2 Jun 2021 22:14

Tgt Ion: 95 Resp: 2573572
Ion Ratio Lower Upper
95 100
174 74.5 58.4 87.6
175 5.1 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

