

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020321\
 Data File : VL036301.D
 Acq On : 3 Feb 2021 19:55
 Operator : SY/AP
 Sample : M1295-05 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 01:48:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1577368	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3372288	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	3131787	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2702283	10.42	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

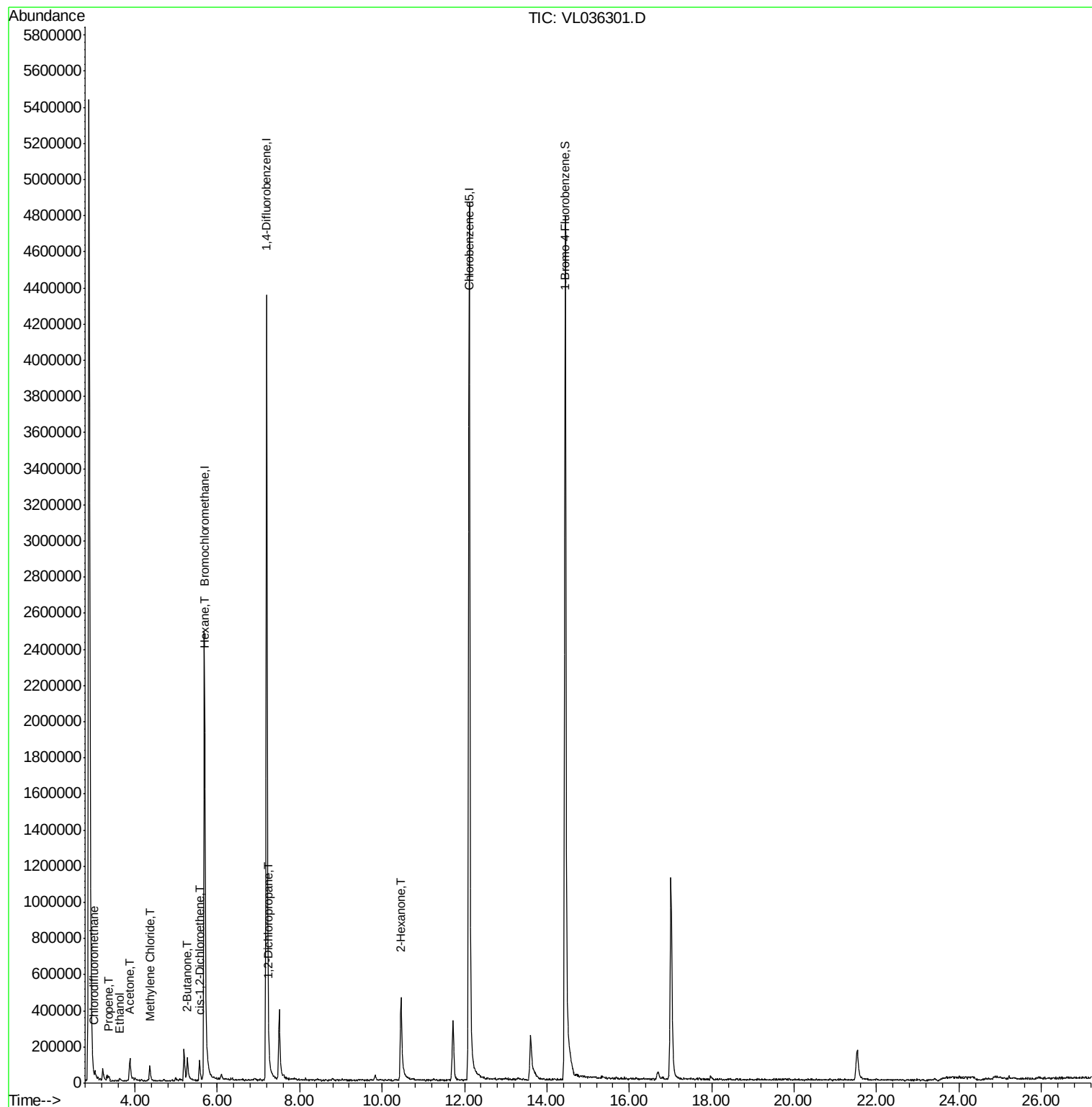
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	11492	0.059	ppbv #	83
9) Propene	3.36	41	3013	0.033	ppbv	96
13) Ethanol	3.63	45	9405	0.649	ppbv	81
15) Acetone	3.87	43	155953	0.807	ppbv #	69
20) Methylene Chloride	4.36	84	27633	0.448	ppbv #	89
26) Hexane	5.70	57	6143	0.038	ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	27103	0.176	ppbv	92
34) 2-Butanone	5.27	43	76462	0.308	ppbv #	44
39) 1,2-Dichloropropane	7.25	63	17609	0.140	ppbv #	16
51) 2-Hexanone	10.46	43	111310	0.381	ppbv #	55

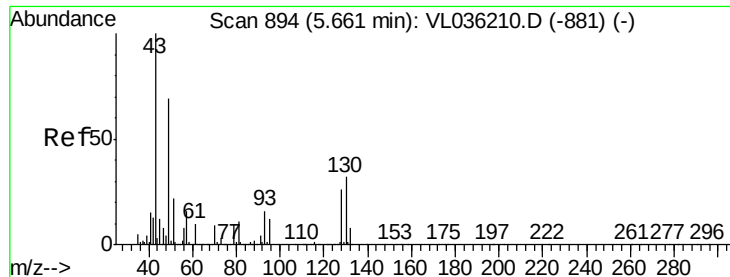
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036301.D

Acq: 3 Feb 2021 19:55

Instrument :

MSVOA_L

ClientSampleId :

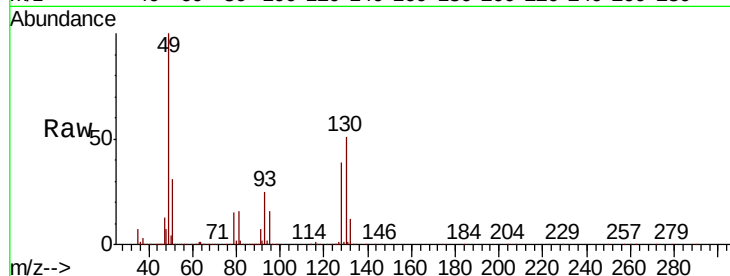
Tot Ion: 49 Resp: 1577368

Ion Ratio Lower Upper

49 100

128 41.5 20.1 60.2

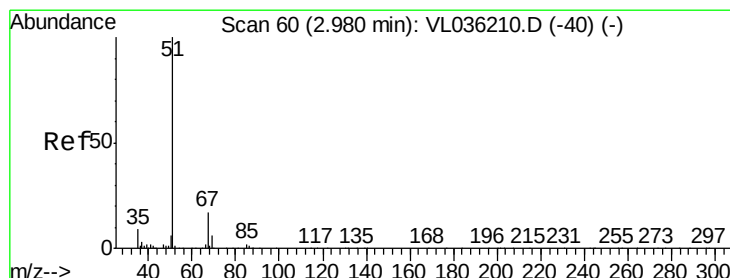
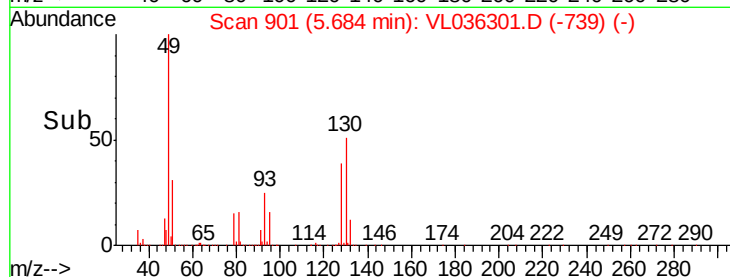
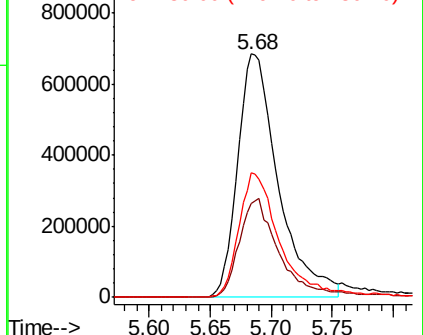
130 53.4 25.3 75.9



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



#3

Chlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL036301.D

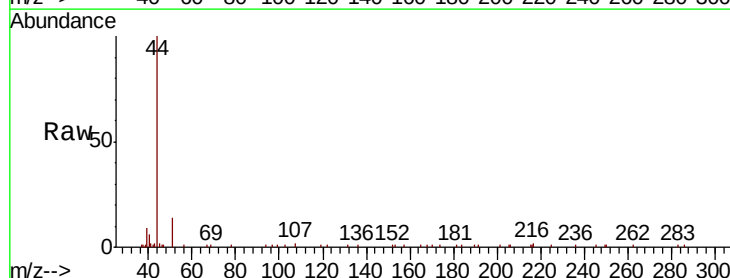
Acq: 3 Feb 2021 19:55

Tgt Ion: 51 Resp: 11492

Ion Ratio Lower Upper

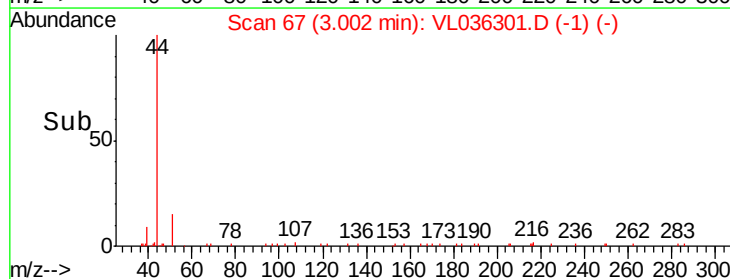
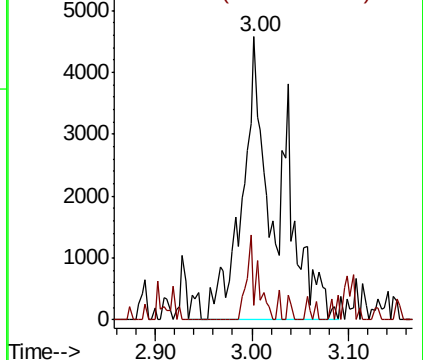
51 100

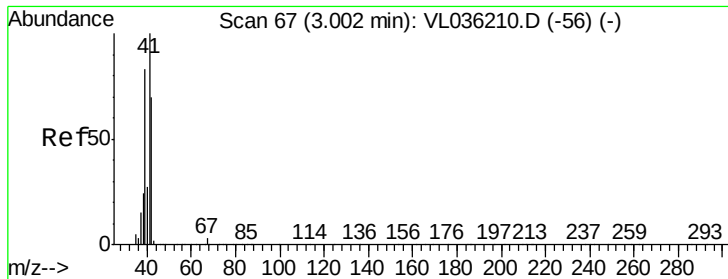
67 9.8 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.033 ppbv

RT: 3.36 min Scan# 179

Delta R.T. 0.36 min

Lab File: VL036301.D

Acq: 3 Feb 2021 19:55

Instrument :

MSVOA_L

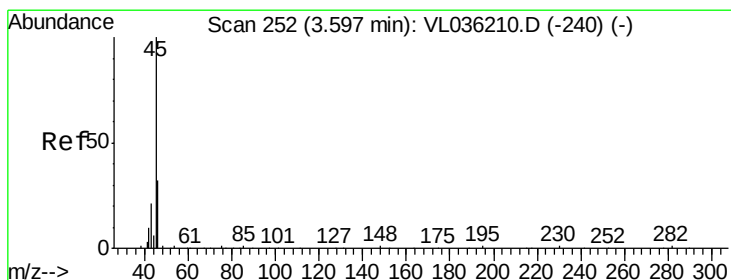
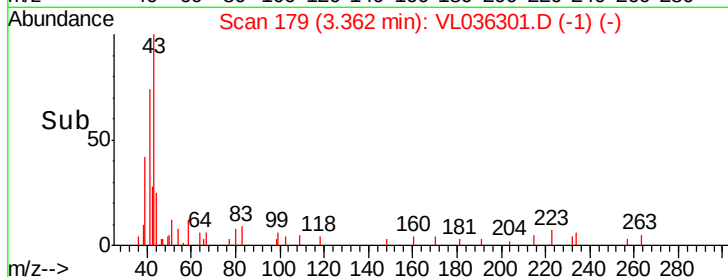
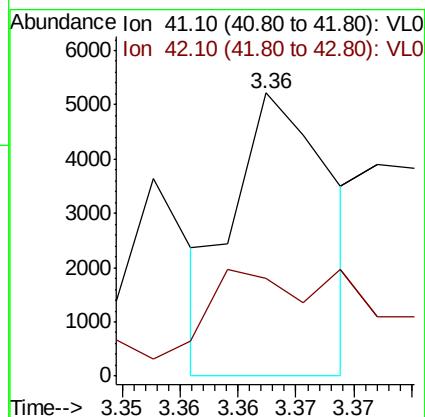
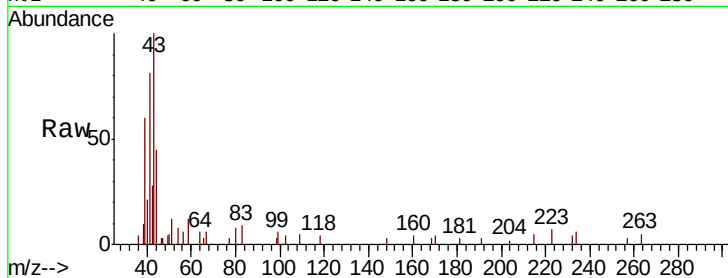
ClientSampleId :

Tot Ion: 41 Resp: 3013

Ion Ratio Lower Upper

41 100

42 74.6 57.1 85.7



#13

Ethanol

Concen: 0.649 ppbv

RT: 3.63 min Scan# 263

Delta R.T. 0.04 min

Lab File: VL036301.D

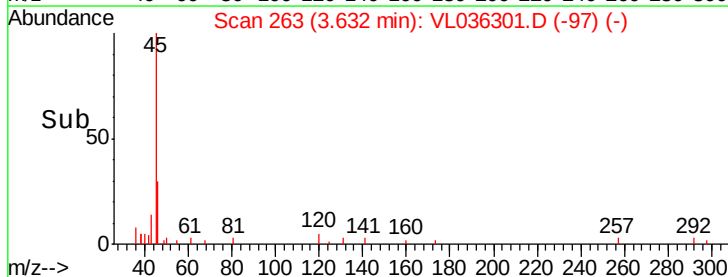
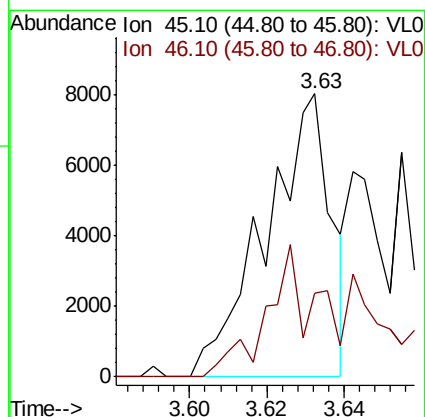
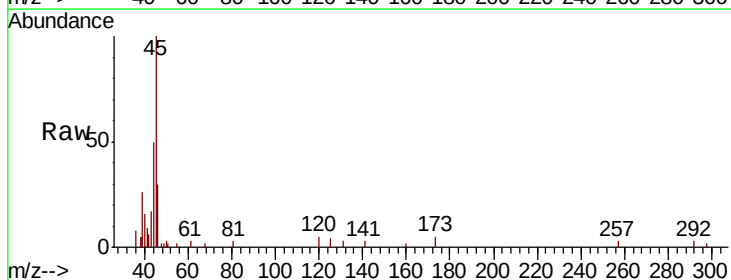
Acq: 3 Feb 2021 19:55

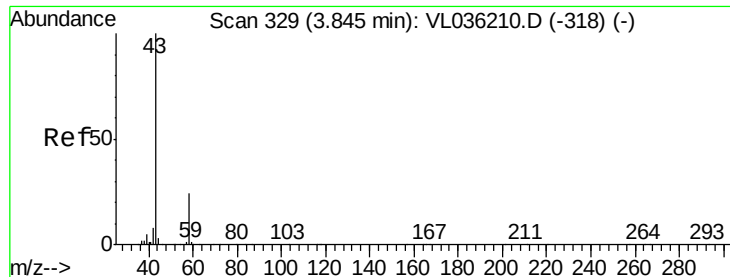
Tgt Ion: 45 Resp: 9405

Ion Ratio Lower Upper

45 100

46 35.3 19.2 77.0

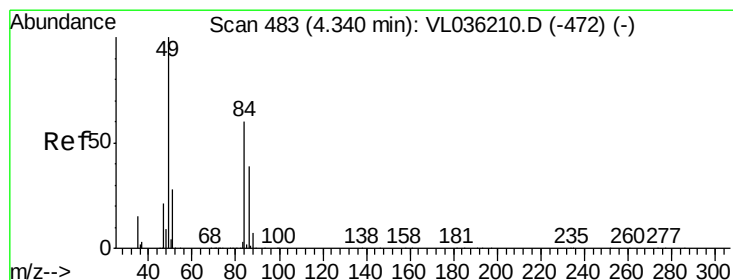
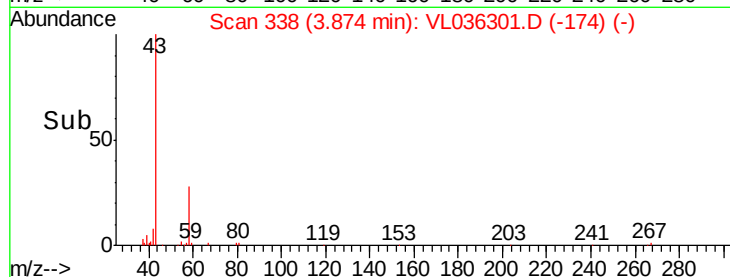
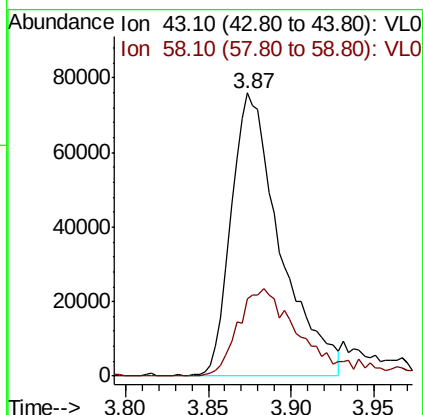
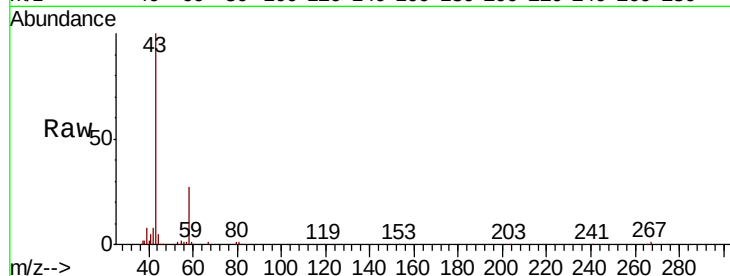




#15
Acetone
Concen: 0.807 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.03 min
Lab File: VL036301.D
Acq: 3 Feb 2021 19:55

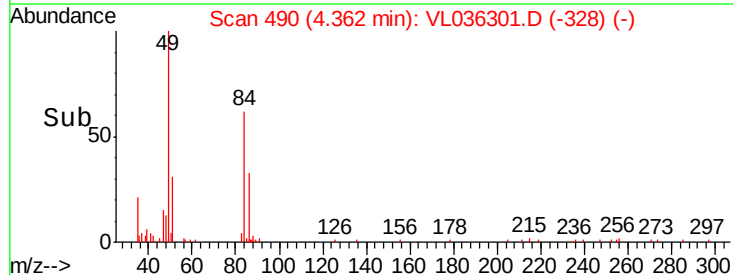
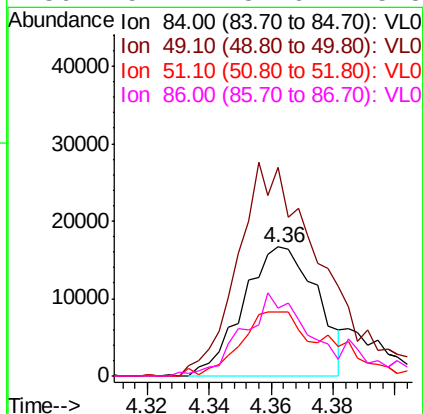
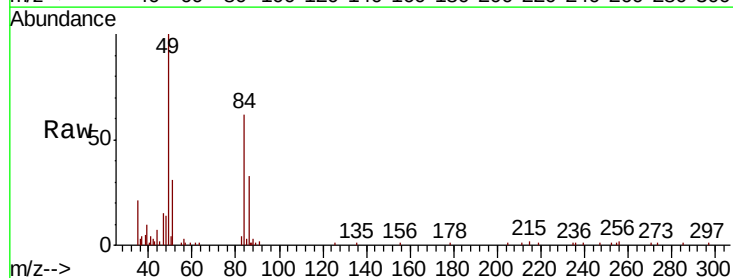
Instrument :
MSVOA_L
ClientSampleId :

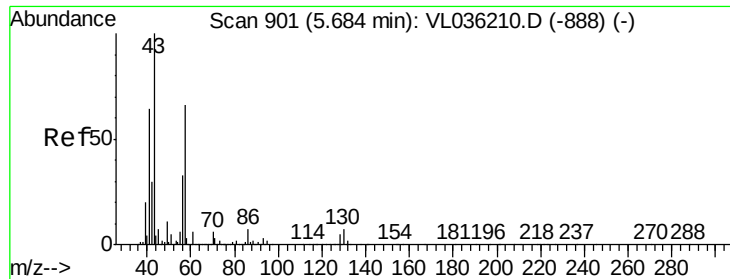
Tot Ion: 43 Resp: 155953
Ion Ratio Lower Upper
43 100
58 41.8 20.9 31.3#



#20
Methylene Chloride
Concen: 0.448 ppbv
RT: 4.36 min Scan# 490
Delta R.T. 0.02 min
Lab File: VL036301.D
Acq: 3 Feb 2021 19:55

Tgt Ion: 84 Resp: 27633
Ion Ratio Lower Upper
84 100
49 154.1 134.1 201.1
51 43.6 37.4 56.0
86 51.1 52.6 78.8#

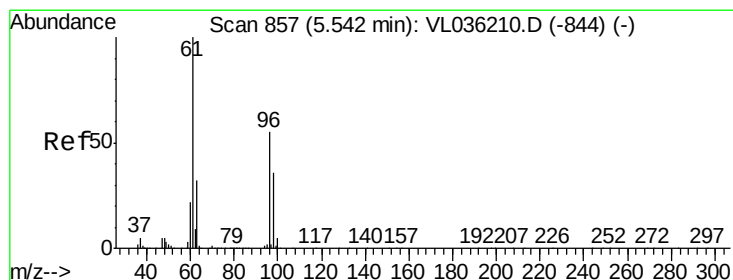
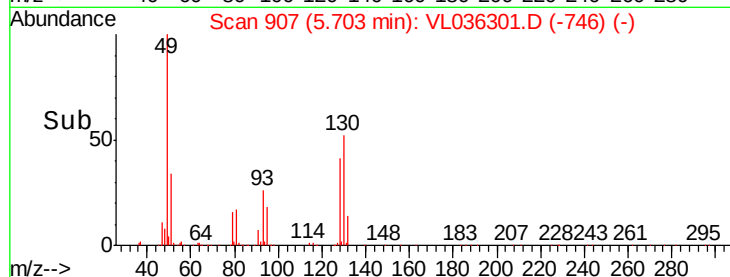
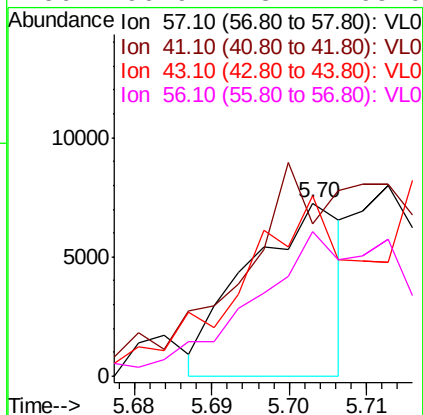
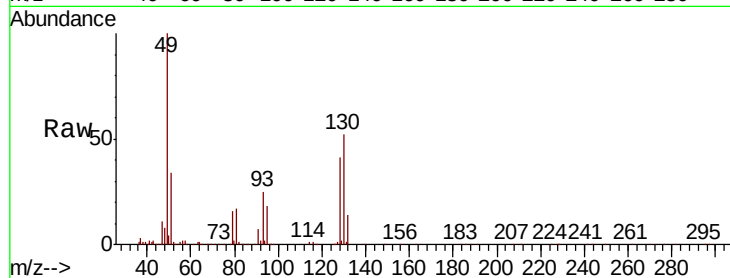




#26
Hexane
Concen: 0.038 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.02 min
Lab File: VL036301.D
Acq: 3 Feb 2021 19:55

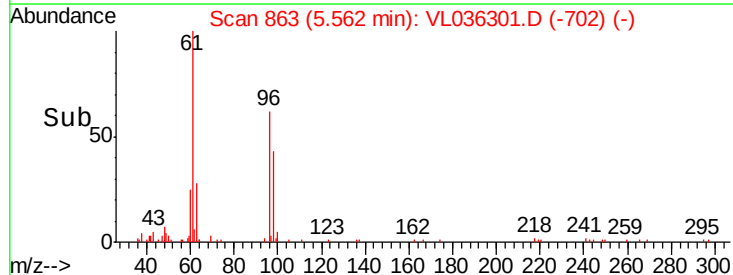
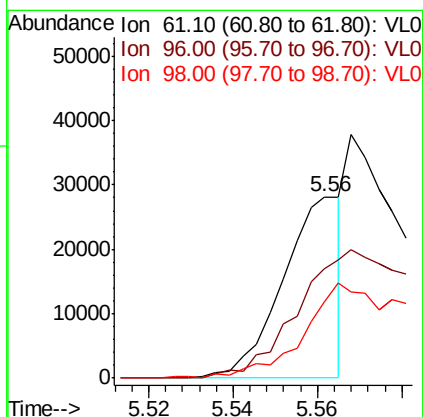
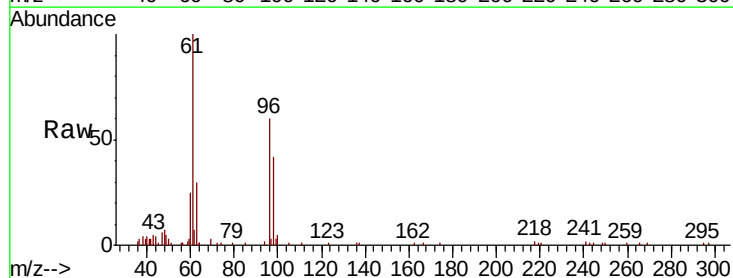
Instrument :
MSVOA_L
ClientSampled :

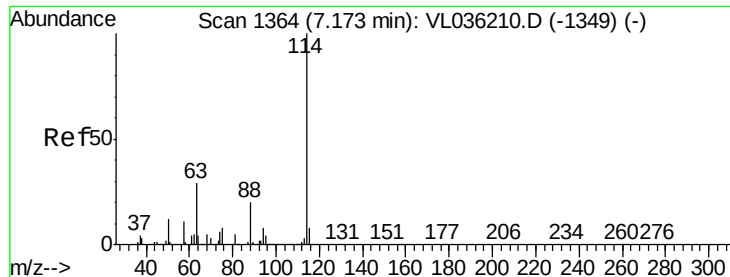
Tot Ion: 57 Resp: 6143
Ion Ratio Lower Upper
57 100
41 328.4 83.0 124.6#
43 0.0 202.4 303.6#
56 190.9 43.4 65.0#



#31
cis-1,2-Dichloroethene
Concen: 0.176 ppbv
RT: 5.56 min Scan# 863
Delta R.T. 0.02 min
Lab File: VL036301.D
Acq: 3 Feb 2021 19:55

Tgt Ion: 61 Resp: 27103
Ion Ratio Lower Upper
61 100
96 60.3 44.1 66.1
98 41.3 28.6 42.8

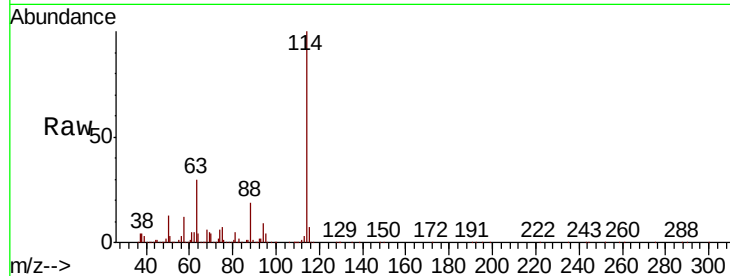




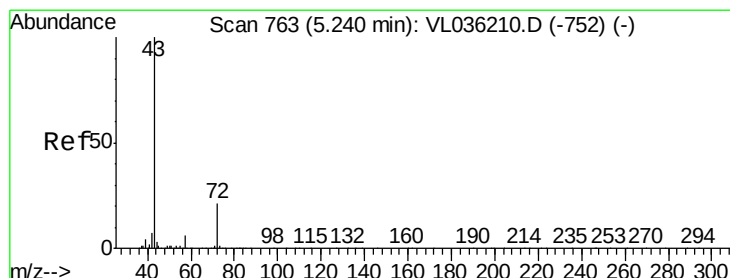
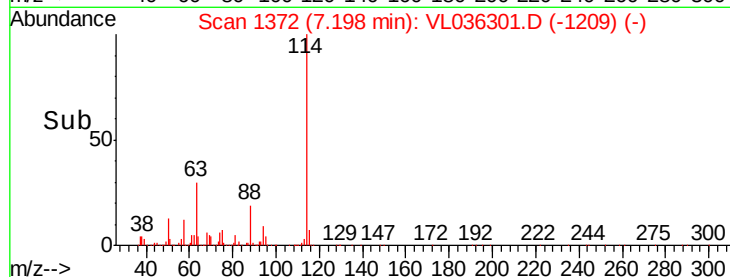
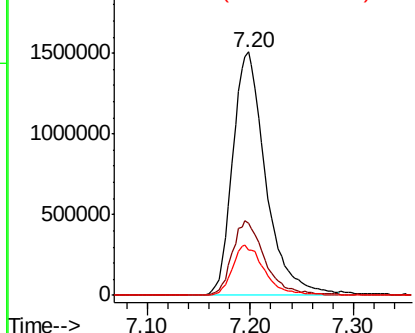
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. 0.03 min
 Lab File: VL036301.D
 Acq: 3 Feb 2021 19:55

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3372288
 Ion Ratio Lower Upper
 114 100
 63 30.7 24.7 37.1
 88 20.3 16.6 24.8

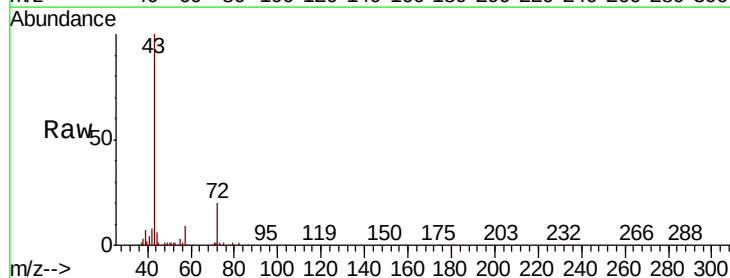


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

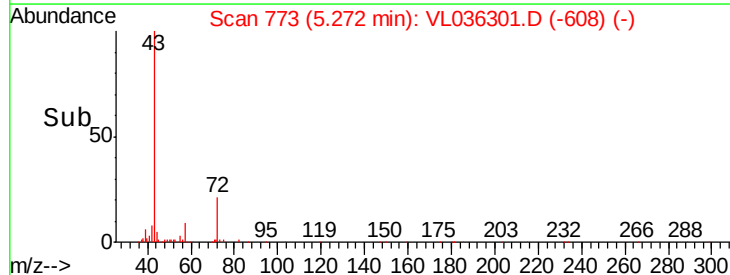
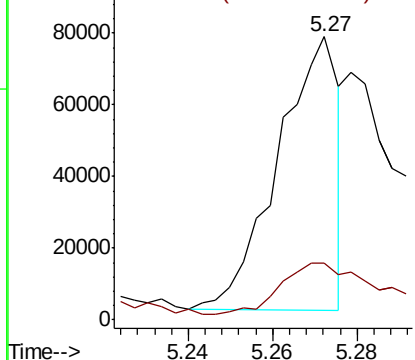


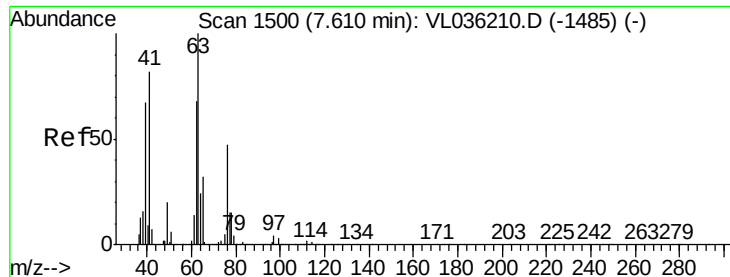
#34
 2-Butanone
 Concen: 0.308 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.03 min
 Lab File: VL036301.D
 Acq: 3 Feb 2021 19:55

Tgt Ion: 43 Resp: 76462
 Ion Ratio Lower Upper
 43 100
 72 45.9 16.1 24.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 0.140 ppbv

RT: 7.25 min Scan# 1389

Delta R.T. -0.36 min

Lab File: VL036301.D

Acq: 3 Feb 2021 19:55

Instrument :

MSVOA_L

ClientSampleId :

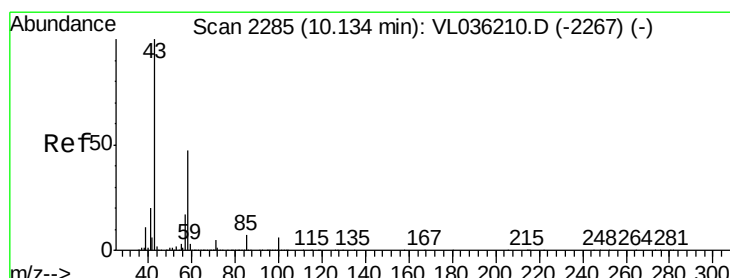
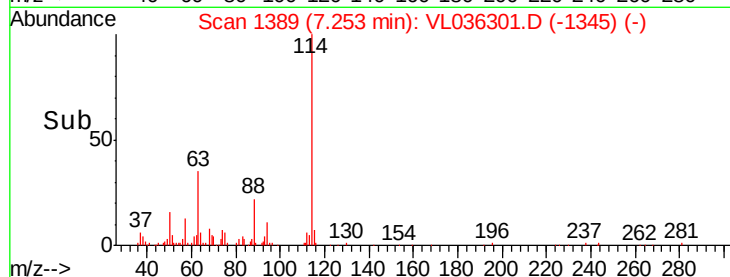
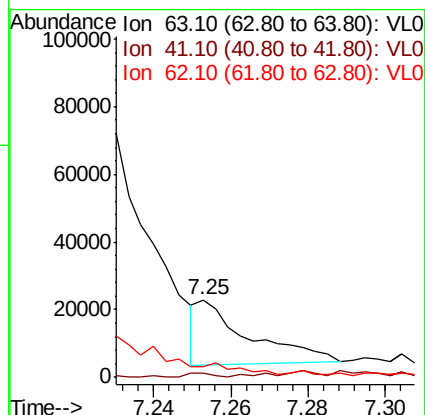
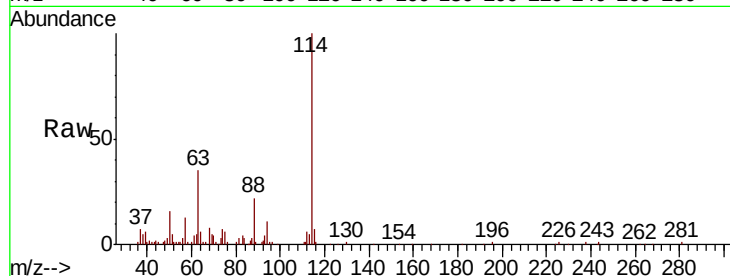
Tot Ion: 63 Resp: 17609

Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 8.8 54.8 82.2#



#51

2-Hexanone

Concen: 0.381 ppbv

RT: 10.46 min Scan# 2385

Delta R.T. 0.32 min

Lab File: VL036301.D

Acq: 3 Feb 2021 19:55

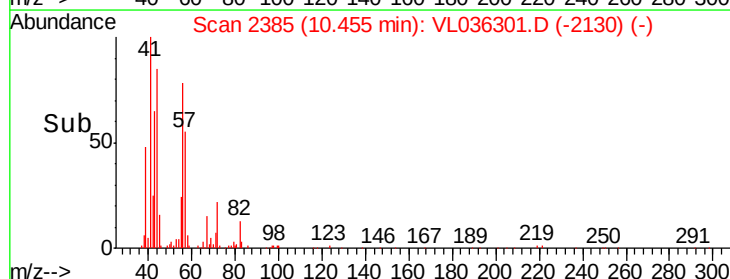
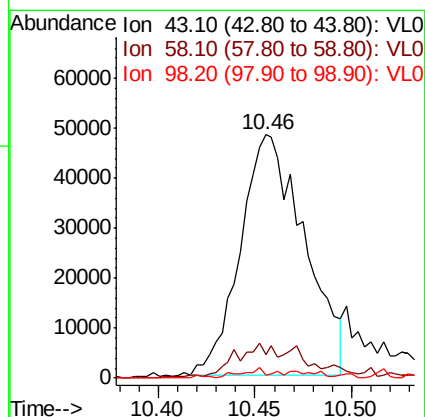
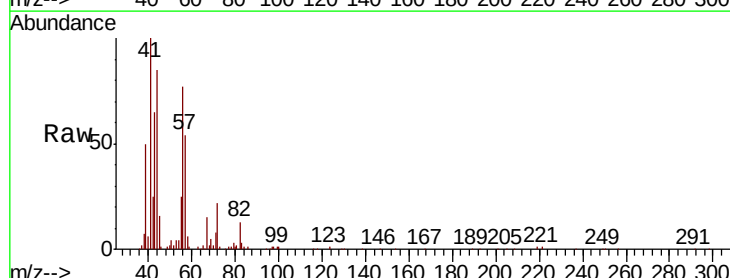
Tgt Ion: 43 Resp: 111310

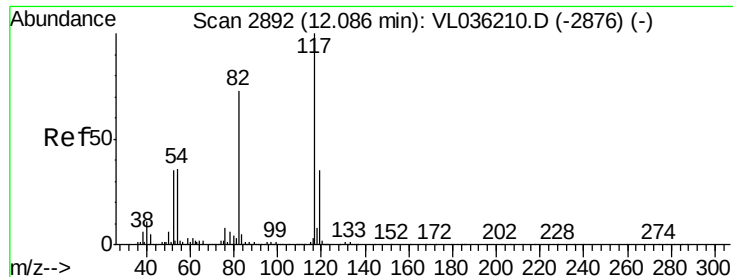
Ion Ratio Lower Upper

43 100

58 16.8 37.4 56.0#

98 3.4 0.2 0.2#

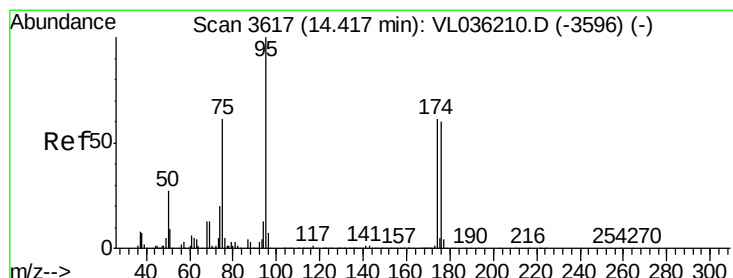
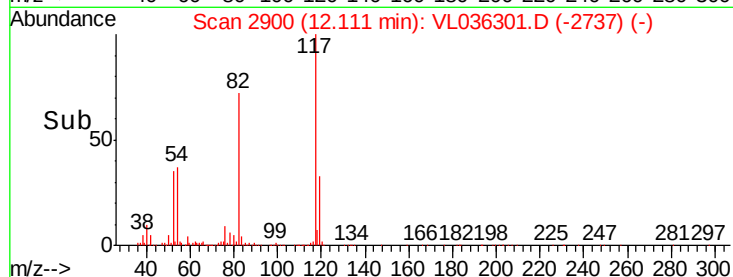
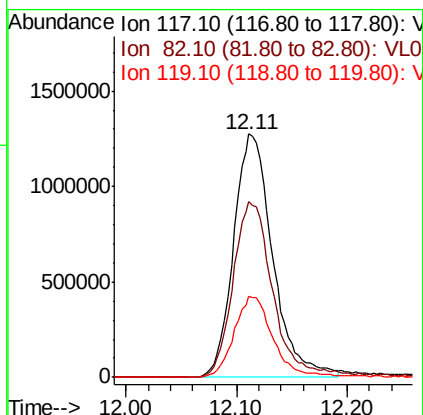
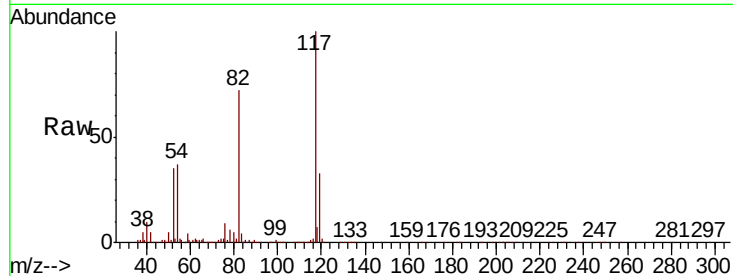




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.03 min
Lab File: VL036301.D
Acq: 3 Feb 2021 19:55

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3131787
Ion Ratio Lower Upper
117 100
82 75.9 59.7 89.5
119 34.1 28.6 43.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.425 ppbv
RT: 14.45 min Scan# 3626
Delta R.T. 0.03 min
Lab File: VL036301.D
Acq: 3 Feb 2021 19:55

Tgt Ion: 95 Resp: 2702283
Ion Ratio Lower Upper
95 100
174 61.1 49.4 74.0
175 4.2 3.8 5.8

