

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020321\
 Data File : VL036307.D
 Acq On : 3 Feb 2021 23:53
 Operator : SY/AP
 Sample : M1295-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 01:49:19 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	1550300	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3220399	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	2912598	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2328764	9.66	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

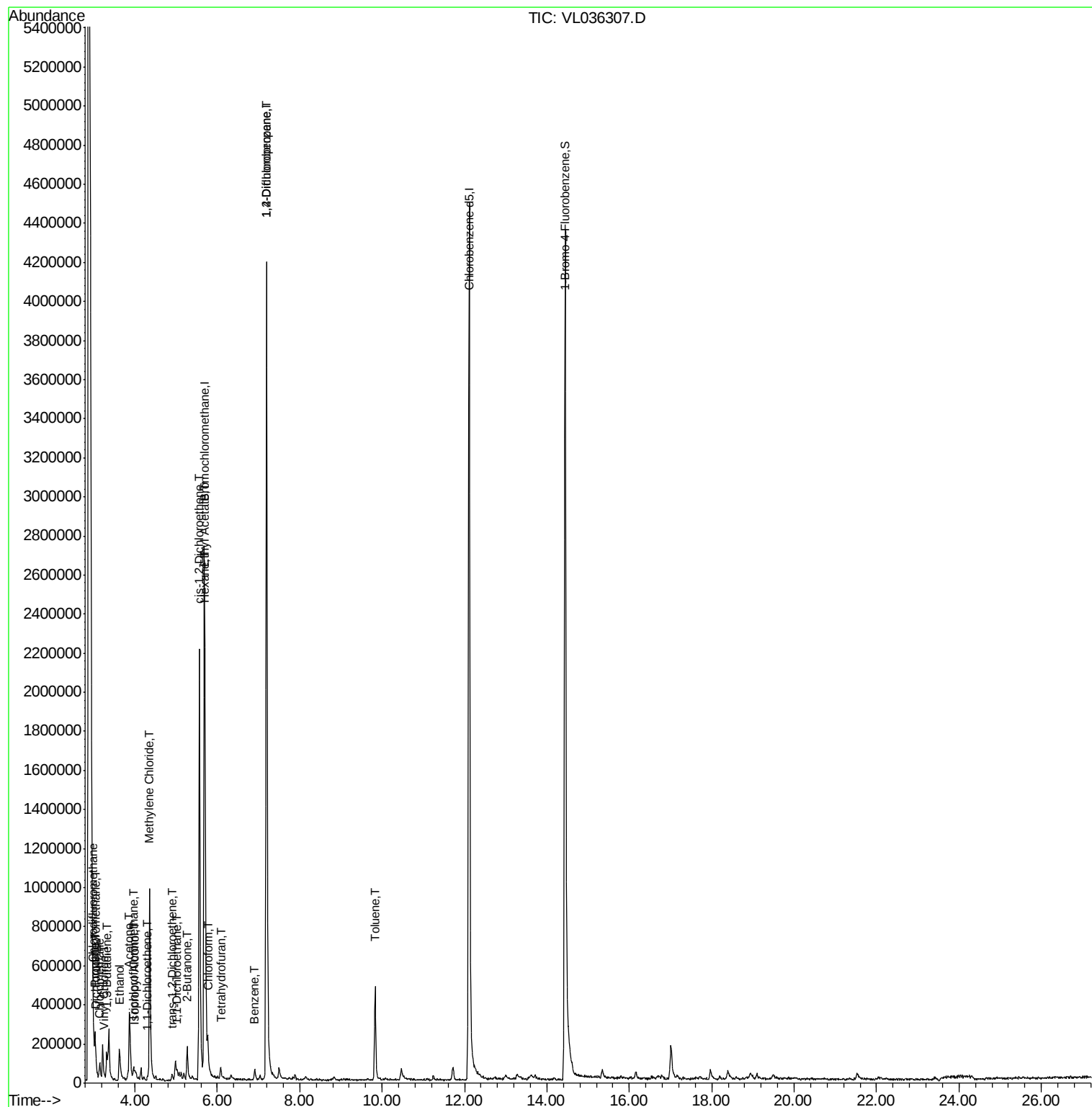
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	37932	0.183	ppbv 89
3) Chlorodifluoromethane	3.00	51	73061	0.384	ppbv # 86
4) Chloromethane	3.15	50	71684	0.762	ppbv # 87
5) Vinyl Chloride	3.27	62	6504	0.073	ppbv # 83
9) Propene	3.03	41	41850	0.462	ppbv 91
11) Trichlorofluoromethane	3.97	101	41579	0.197	ppbv 97
13) Ethanol	3.62	45	180270	12.662	ppbv 99
15) Acetone	3.86	43	440533	2.320	ppbv 98
16) 1,3-Butadiene	3.31	39	44734	0.484	ppbv # 18
18) 1,1-Dichloroethene	4.30	96	2119	0.036	ppbv # 73
19) Isopropyl Alcohol	4.00	45	30697	0.268	ppbv # 54
20) Methylene Chloride	4.36	84	370932	6.121	ppbv 98
22) trans-1,2-Dichloroethene	4.90	96	5278	0.096	ppbv # 60
24) 1,1-Dichloroethane	5.03	63	26791	0.161	ppbv # 94
25) Ethyl Acetate	5.70	43	198996	0.522	ppbv # 79
26) Hexane	5.71	57	273859	1.726	ppbv # 37
29) Chloroform	5.77	83	86293	0.380	ppbv # 83
31) cis-1,2-Dichloroethene	5.56	61	1462170	9.639	ppbv 94
34) 2-Butanone	5.27	43	225368	0.950	ppbv 93
36) Benzene	6.91	78	15540	0.053	ppbv # 82
39) 1,2-Dichloropropane	7.19	63	969551	8.093	ppbv # 21
41) Tetrahydrofuran	6.08	42	24142	0.176	ppbv # 81
53) Toluene	9.83	91	375799	1.139	ppbv 99

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

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QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

ClientSampled :

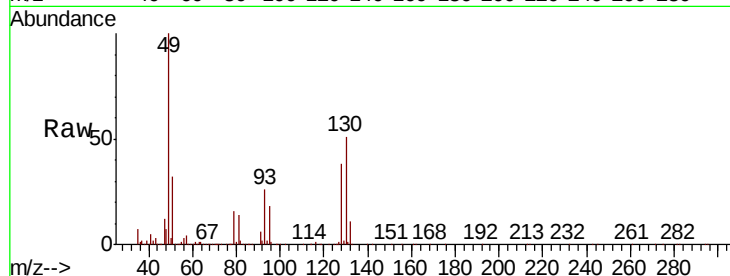
Tot Ion: 49 Resp: 1550300

Ion Ratio Lower Upper

49 100

128 40.5 20.1 60.2

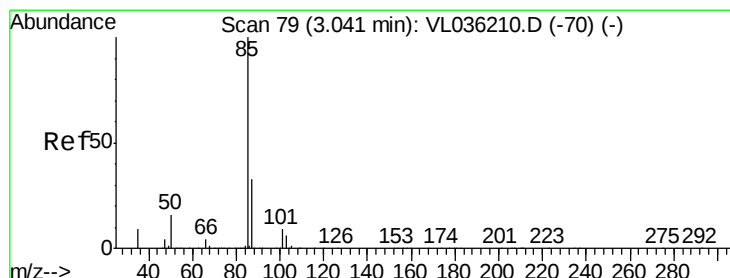
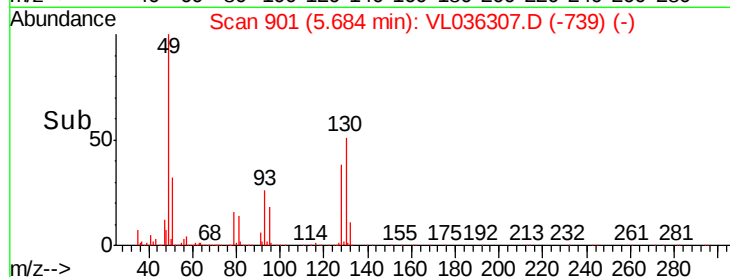
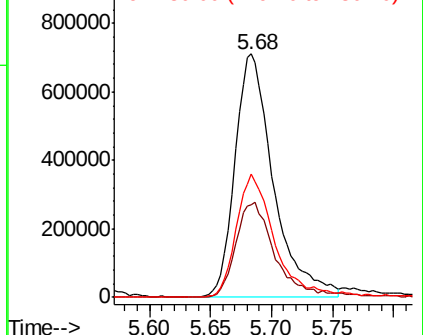
130 51.9 25.3 75.9



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



#2

Dichlorodifluoromethane

Concen: 0.183 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL036307.D

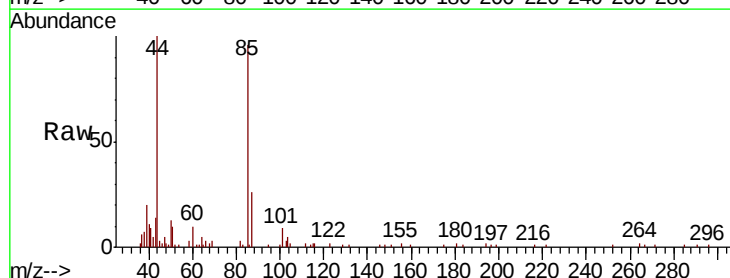
Acq: 3 Feb 2021 23:53

Tgt Ion: 85 Resp: 37932

Ion Ratio Lower Upper

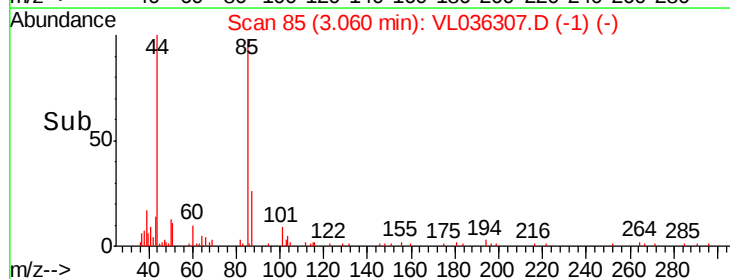
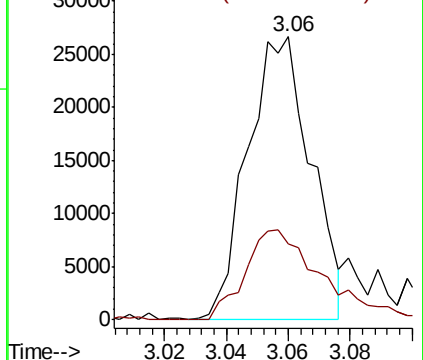
85 100

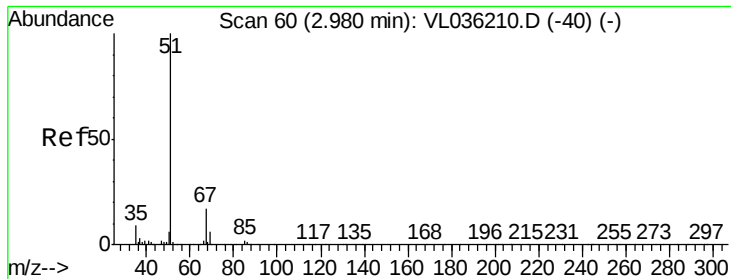
87 26.7 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.384 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

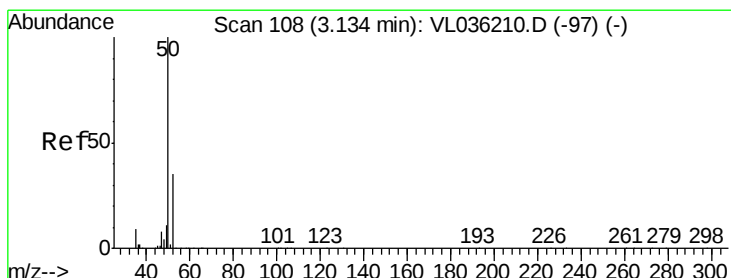
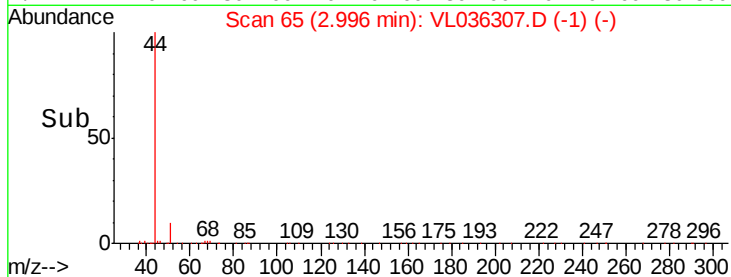
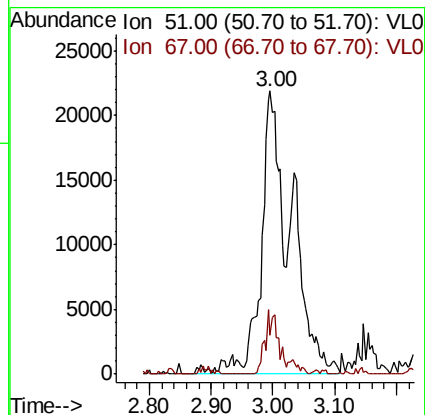
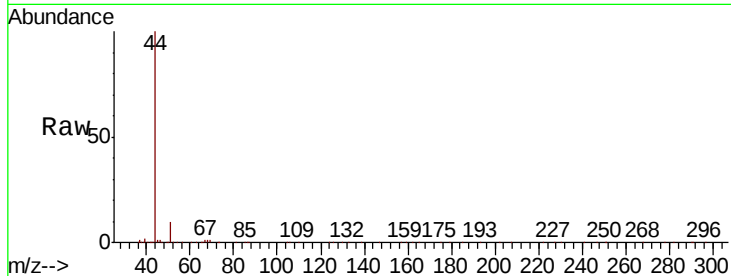
ClientSampleId :

Tot Ion: 51 Resp: 73061

Ion Ratio Lower Upper

51 100

67 11.3 14.0 21.0#



#4

Chloromethane

Concen: 0.762 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.02 min

Lab File: VL036307.D

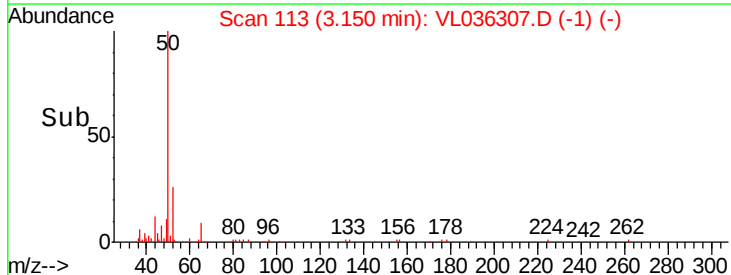
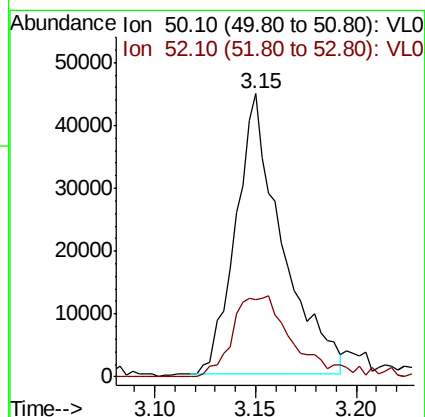
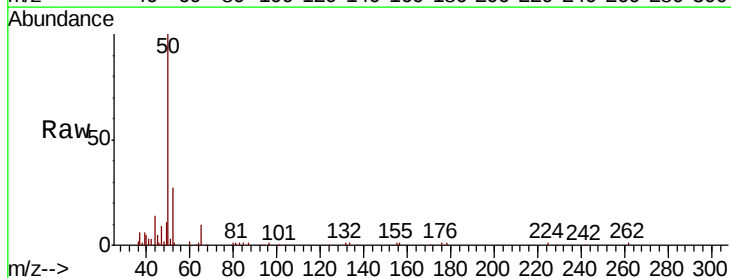
Acq: 3 Feb 2021 23:53

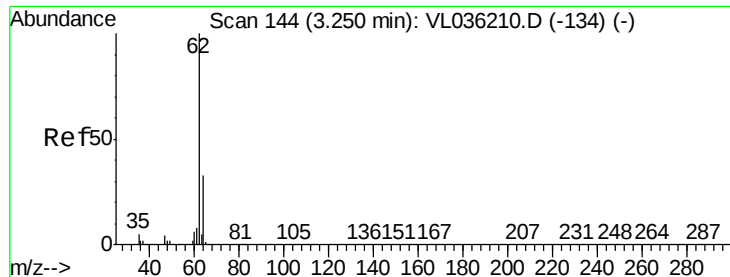
Tgt Ion: 50 Resp: 71684

Ion Ratio Lower Upper

50 100

52 27.4 27.8 41.8#





#5

Vinyl Chloride

Concen: 0.073 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.02 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

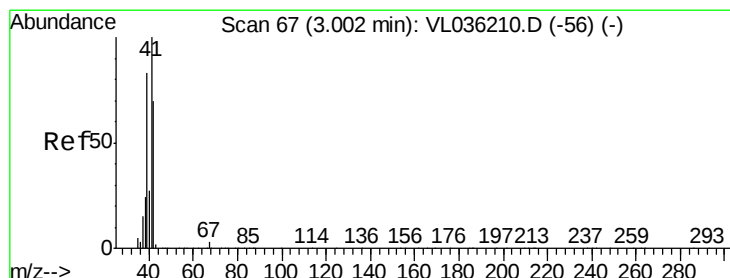
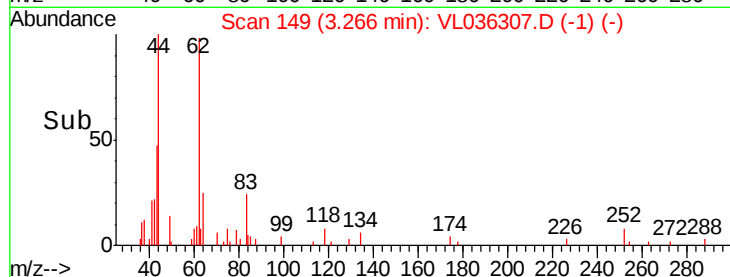
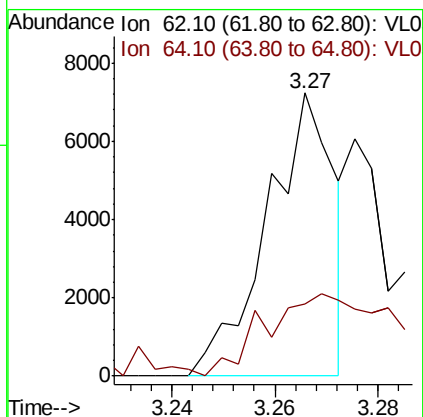
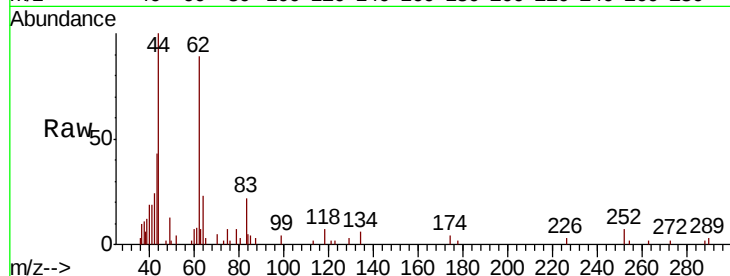
ClientSampleId :

Tot Ion: 62 Resp: 6504

Ion Ratio Lower Upper

62 100

64 22.9 26.2 39.2#



#9

Propene

Concen: 0.462 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.03 min

Lab File: VL036307.D

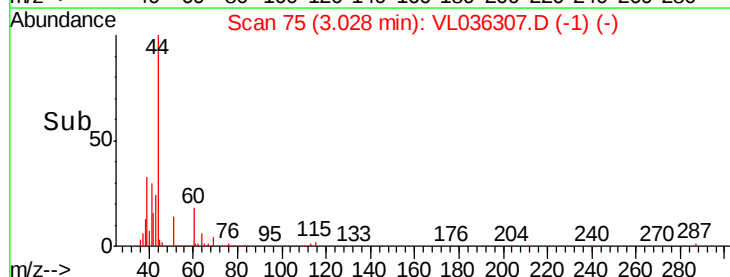
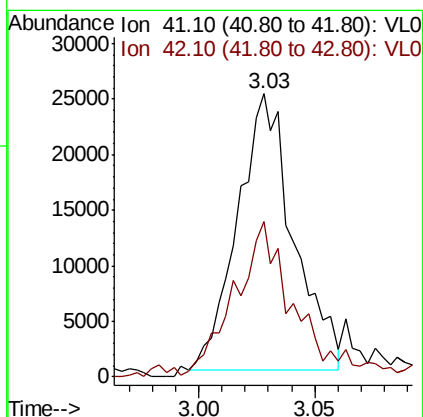
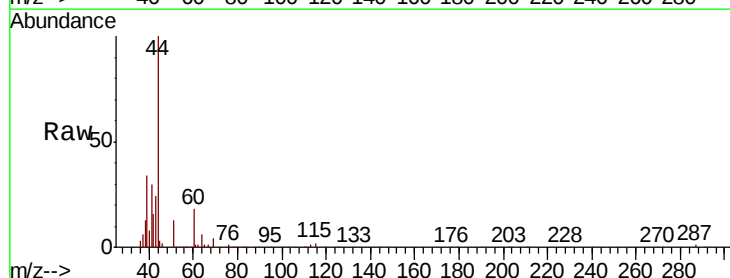
Acq: 3 Feb 2021 23:53

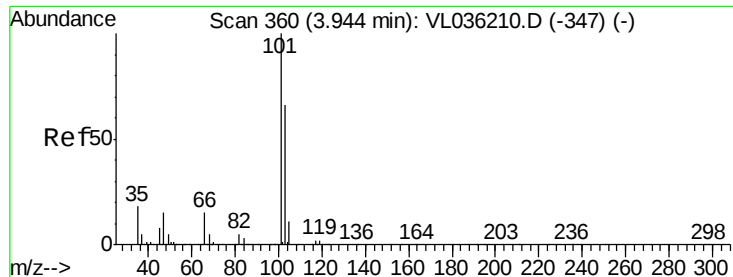
Tgt Ion: 41 Resp: 41850

Ion Ratio Lower Upper

41 100

42 64.0 57.1 85.7

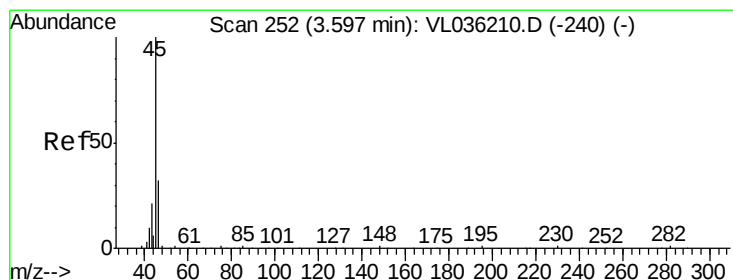
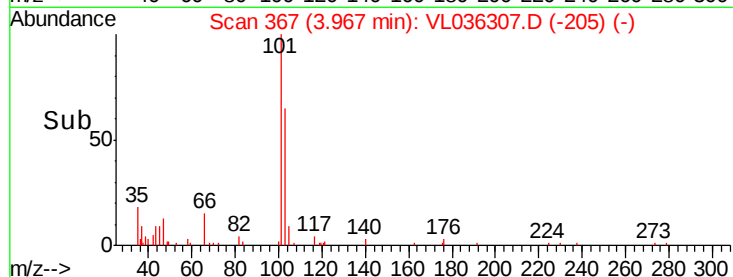
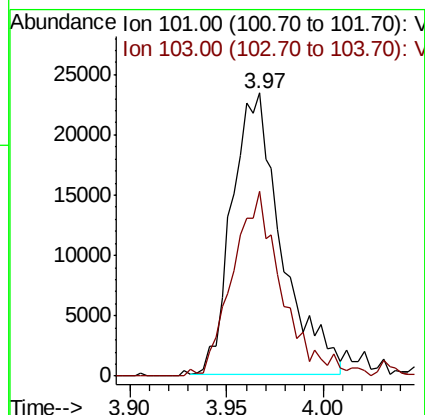
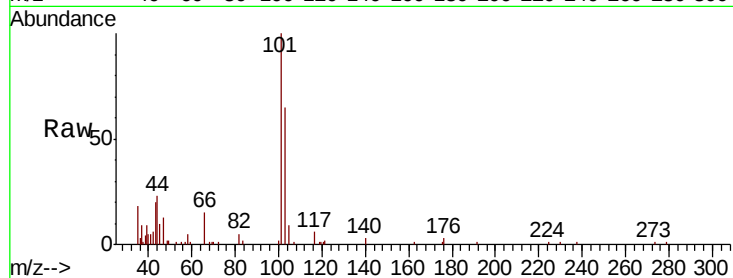




#11
 Trichlorofluoromethane
 Concen: 0.197 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL036307.D
 Acq: 3 Feb 2021 23:53

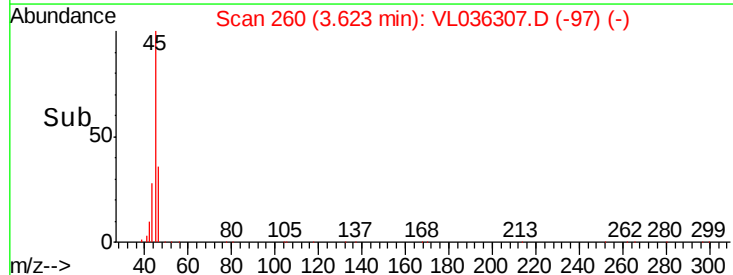
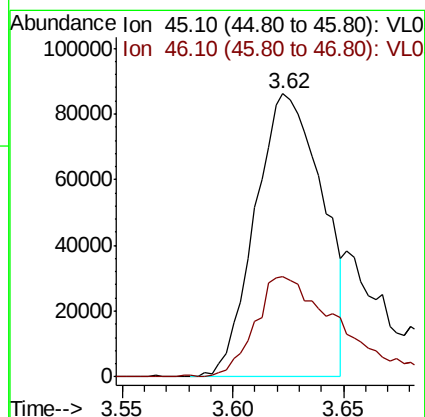
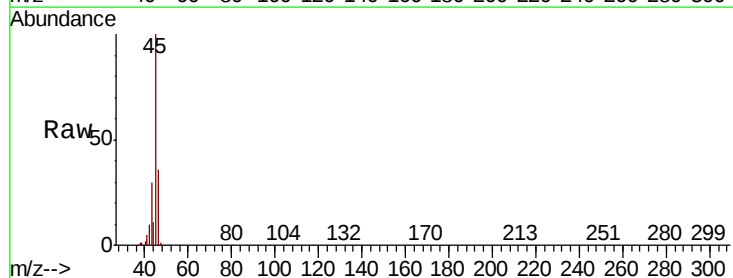
Instrument :
 MSVOA_L
 ClientSampled :

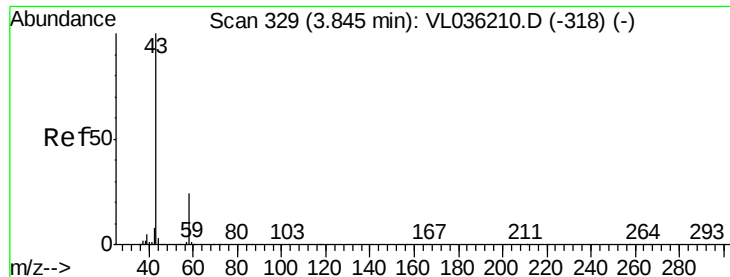
Tot Ion:101 Resp: 41579
 Ion Ratio Lower Upper
 101 100
 103 63.5 52.6 78.8



#13
 Ethanol
 Concen: 12.662 ppbv
 RT: 3.62 min Scan# 260
 Delta R.T. 0.03 min
 Lab File: VL036307.D
 Acq: 3 Feb 2021 23:53

Tgt Ion: 45 Resp: 180270
 Ion Ratio Lower Upper
 45 100
 46 48.9 19.2 77.0





#15

Acetone

Concen: 2.320 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.02 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

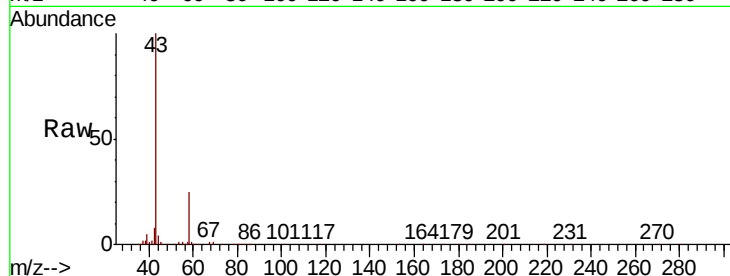
ClientSampleId :

Tot Ion: 43 Resp: 440533

Ion Ratio Lower Upper

43 100

58 25.3 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

250000

200000

150000

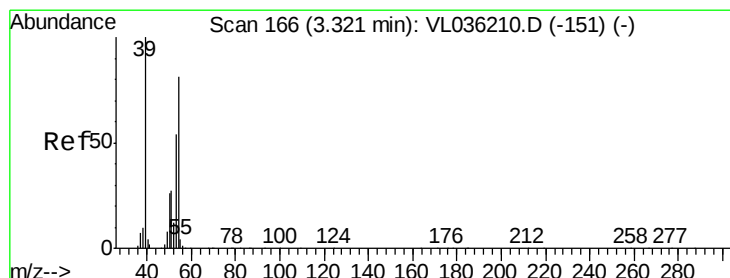
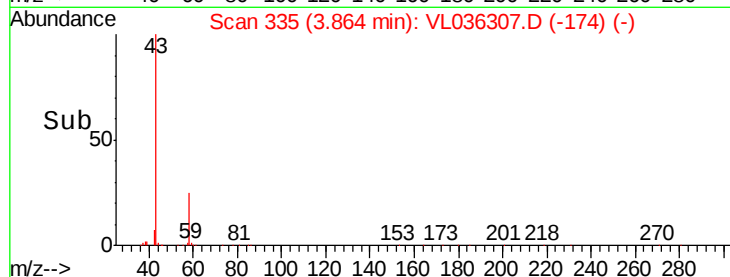
100000

50000

0

Time-->

3.80 3.85 3.90 3.95



#16

1,3-Butadiene

Concen: 0.484 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL036307.D

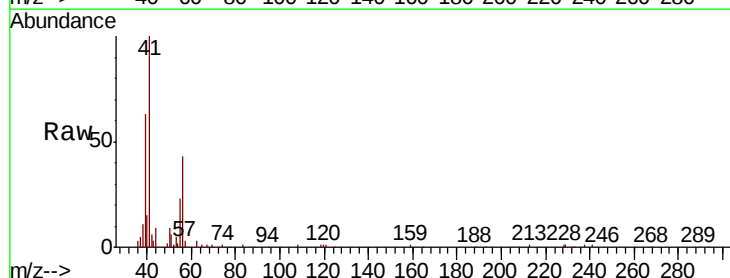
Acq: 3 Feb 2021 23:53

Tgt Ion: 39 Resp: 44734

Ion Ratio Lower Upper

39 100

54 6.9 62.5 93.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

30000

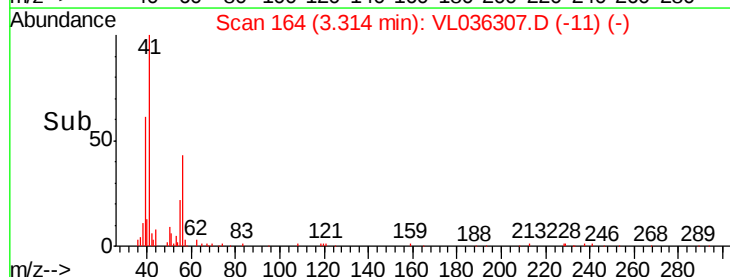
20000

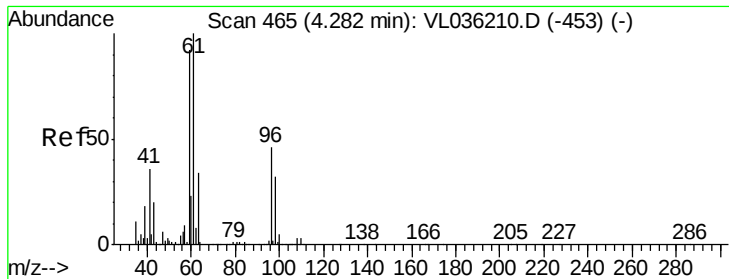
10000

0

Time-->

3.26 3.28 3.30 3.32 3.34





#18

1,1-Dichloroethene

Concen: 0.036 ppbv

RT: 4.30 min Scan# 470

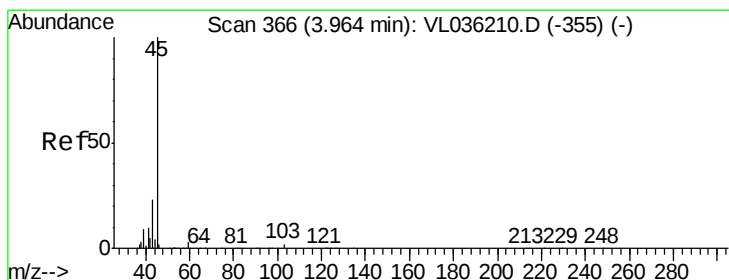
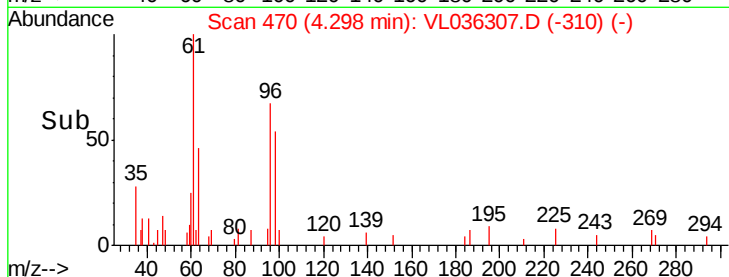
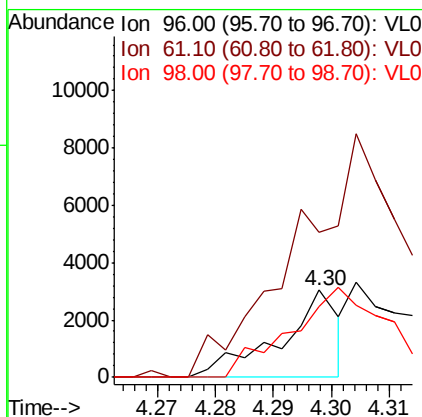
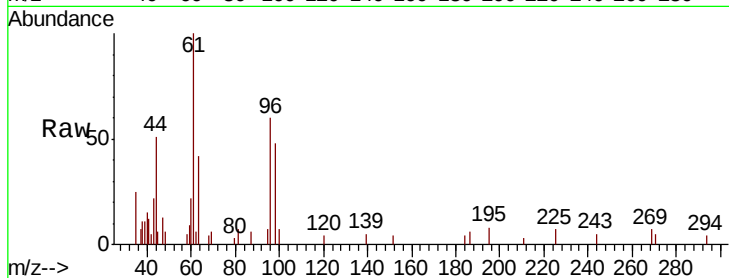
Delta R.T. 0.02 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	96	Resp:	2119
Ion	Ratio	Lower	Upper
96	100		
61	166.6	173.4	260.0#
98	80.6	54.9	82.3



#19

Isopropyl Alcohol

Concen: 0.268 ppbv

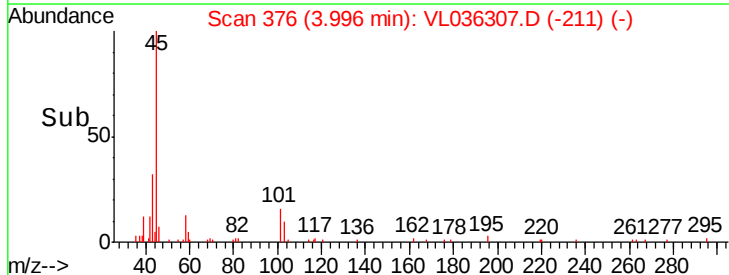
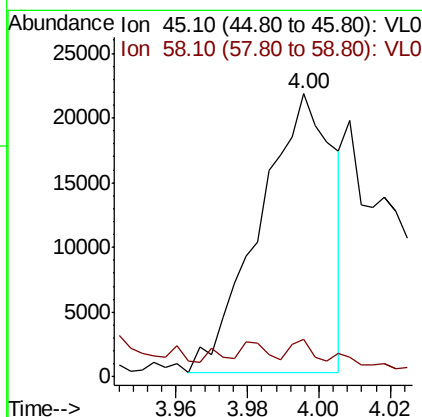
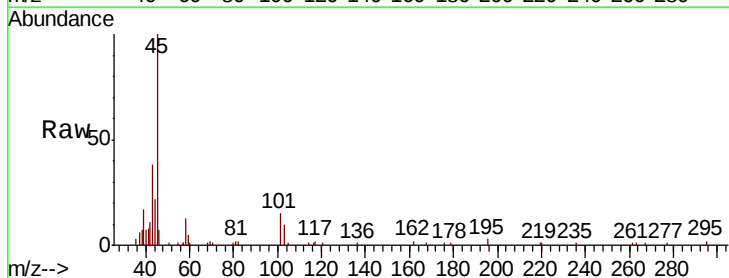
RT: 4.00 min Scan# 376

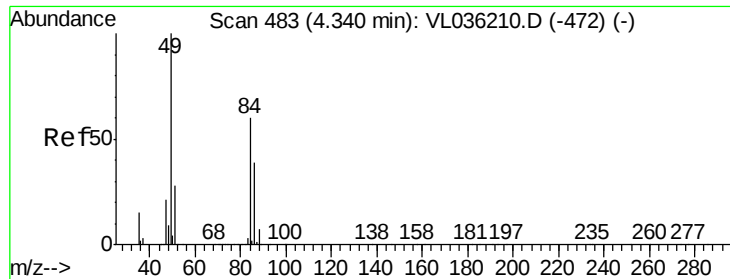
Delta R.T. 0.03 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Tgt Ion:	45	Resp:	30697
Ion	Ratio	Lower	Upper
45	100		
58	18.2	1.9	2.9#

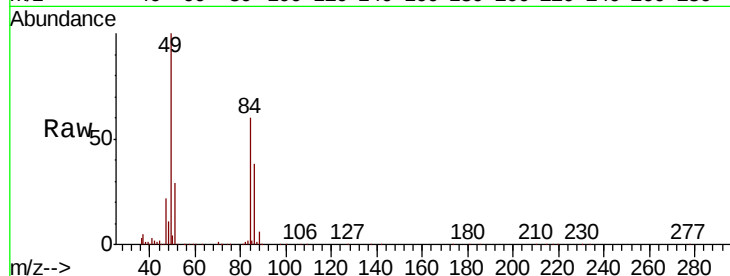




#20
Methylene Chloride
Concen: 6.121 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036307.D
Acq: 3 Feb 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	370932
Ion	Ratio	Lower	Upper
84	100		
49	165.5	134.1	201.1
51	47.4	37.4	56.0
86	62.8	52.6	78.8



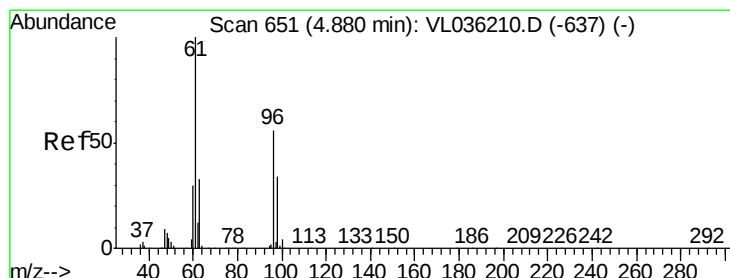
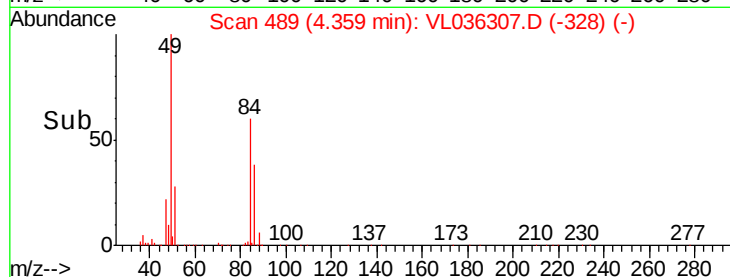
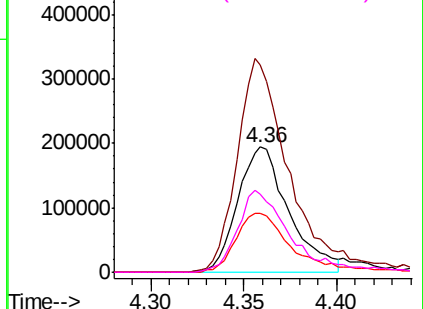
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

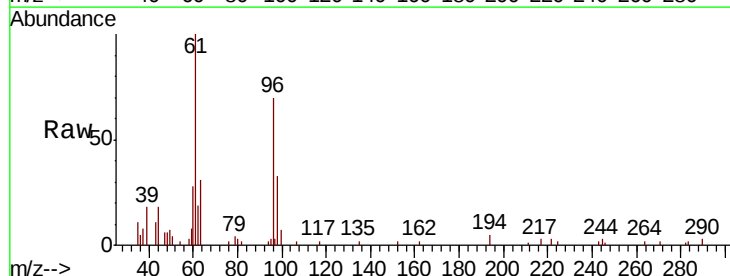
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#22
trans-1,2-Dichloroethene
Concen: 0.096 ppbv
RT: 4.90 min Scan# 658
Delta R.T. 0.02 min
Lab File: VL036307.D
Acq: 3 Feb 2021 23:53

Tgt Ion:	96	Resp:	5278
Ion	Ratio	Lower	Upper
96	100		
61	113.4	142.7	214.1#
98	44.9	48.7	73.1#

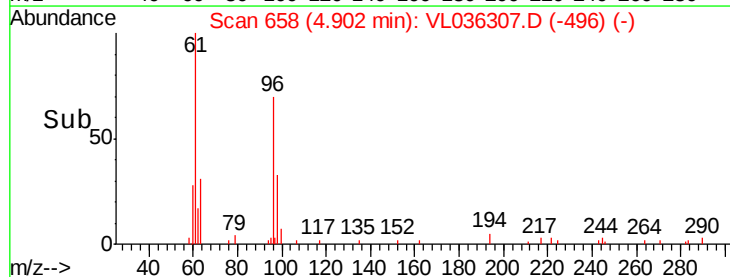
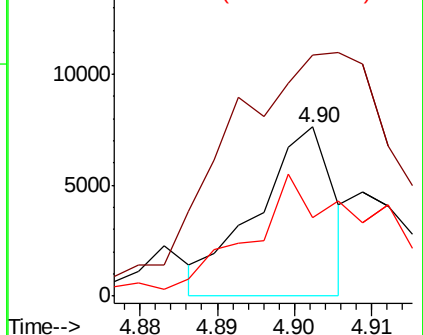


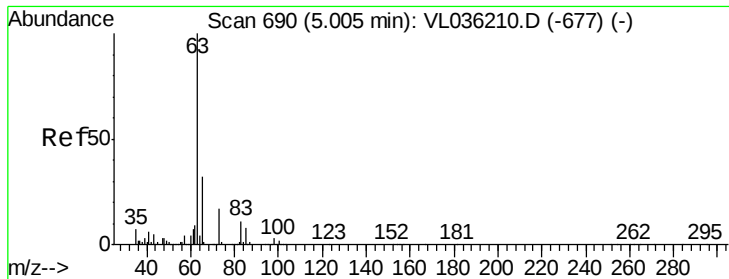
Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#24

1,1-Dichloroethane

Concen: 0.161 ppbv

RT: 5.03 min Scan# 698

Delta R.T. 0.03 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

ClientSampleId :

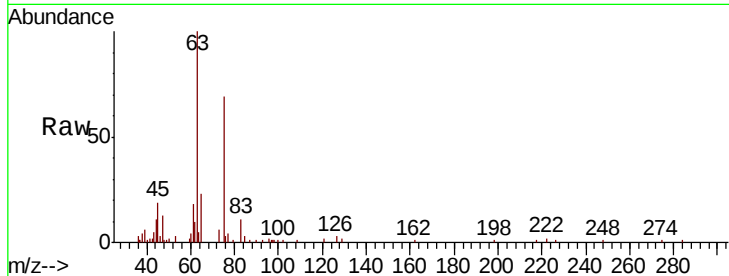
Tot Ion: 63 Resp: 26791

Ion Ratio Lower Upper

63 100

98 0.9 1.7 5.1#

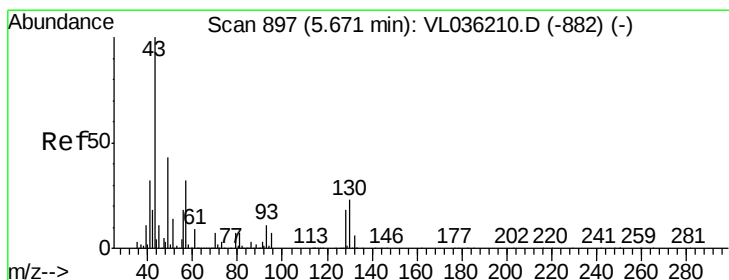
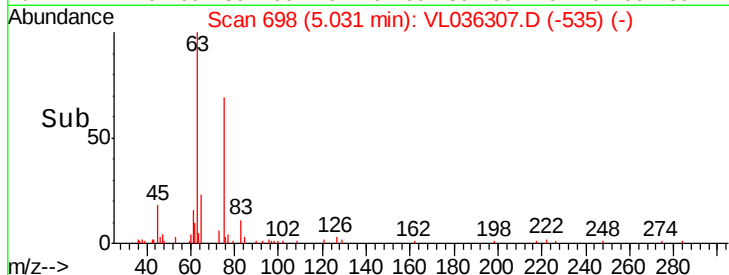
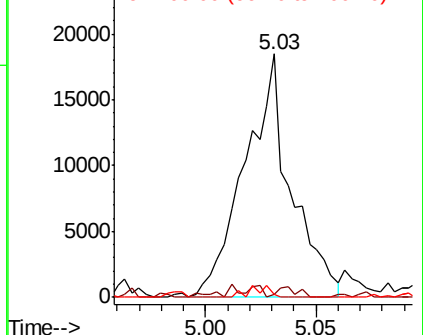
100 1.2 1.1 3.1



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.522 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.03 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Tgt Ion: 43 Resp: 198996

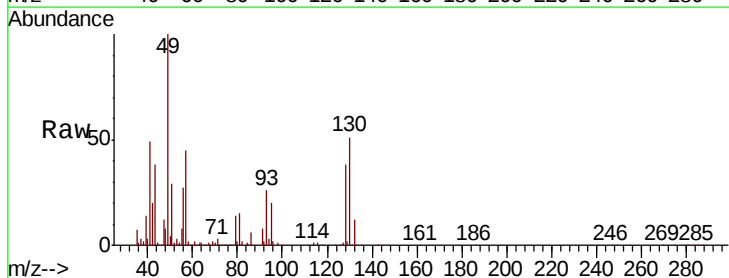
Ion Ratio Lower Upper

43 100

45 2.0 8.3 12.5#

61 0.0 7.4 11.2#

70 2.6 5.5 8.3#

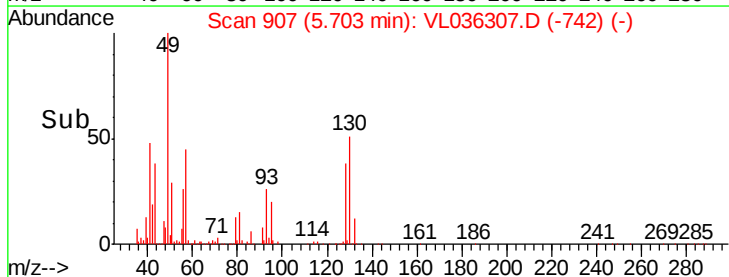
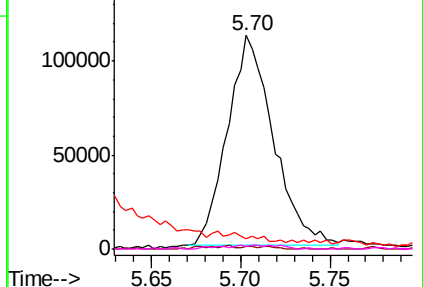


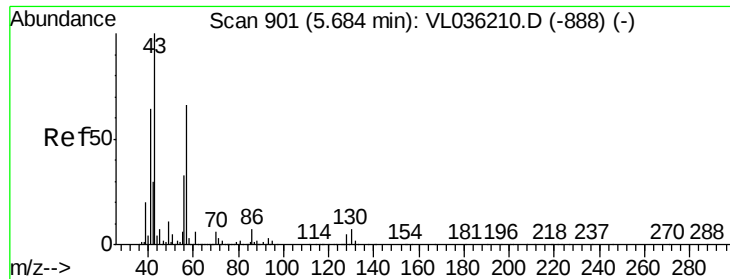
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

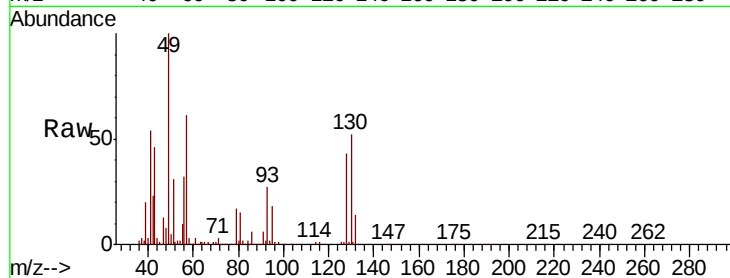




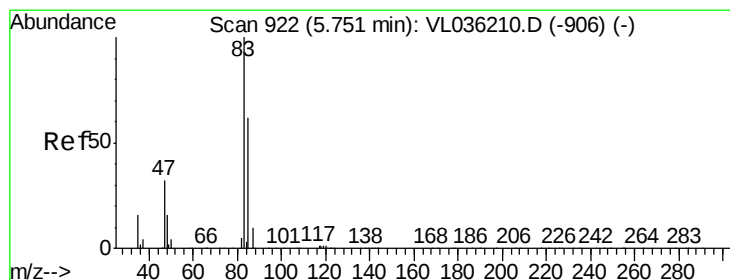
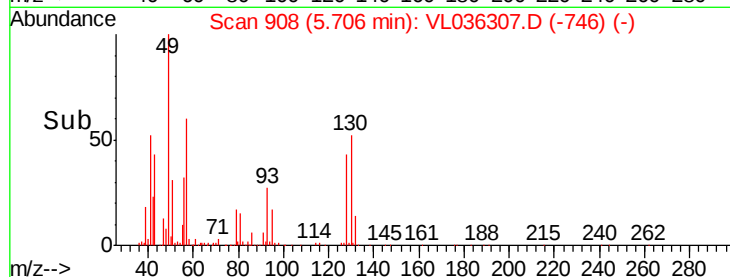
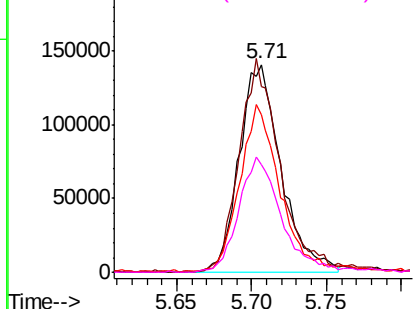
#26
Hexane
Concen: 1.726 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.02 min
Lab File: VL036307.D
Acq: 3 Feb 2021 23:53

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 273859
Ion Ratio Lower Upper
57 100
41 102.5 83.0 124.6
43 77.4 202.4 303.6#
56 58.1 43.4 65.0

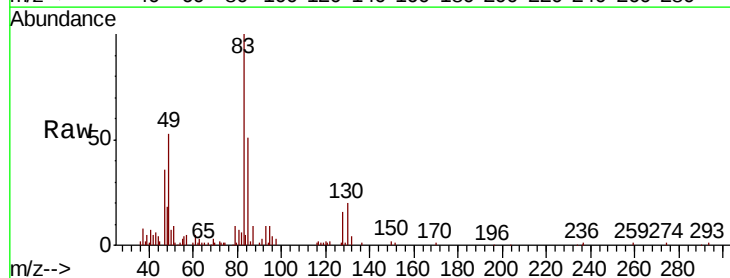


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

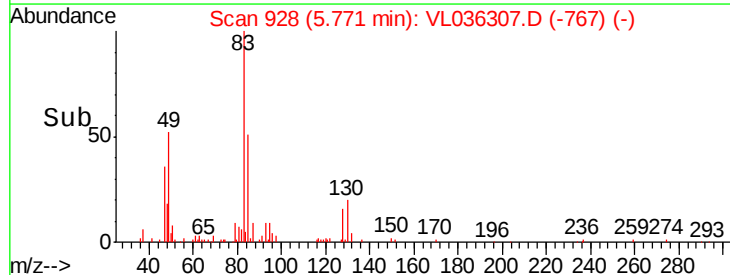
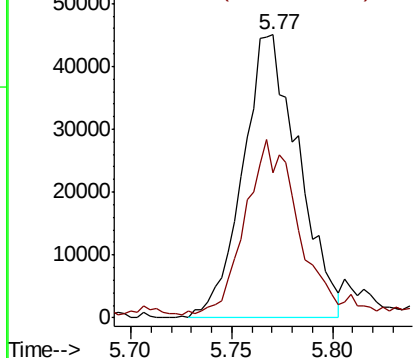


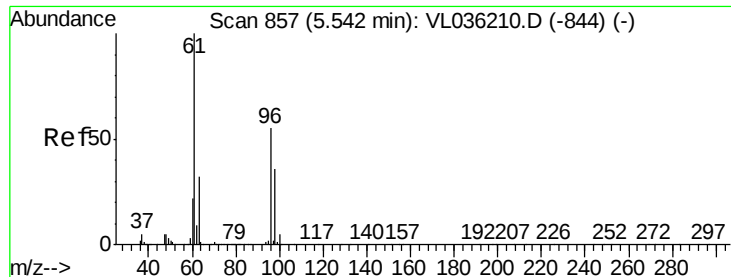
#29
Chloroform
Concen: 0.380 ppbv
RT: 5.77 min Scan# 928
Delta R.T. 0.02 min
Lab File: VL036307.D
Acq: 3 Feb 2021 23:53

Tgt Ion: 83 Resp: 86293
Ion Ratio Lower Upper
83 100
85 48.8 49.3 73.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



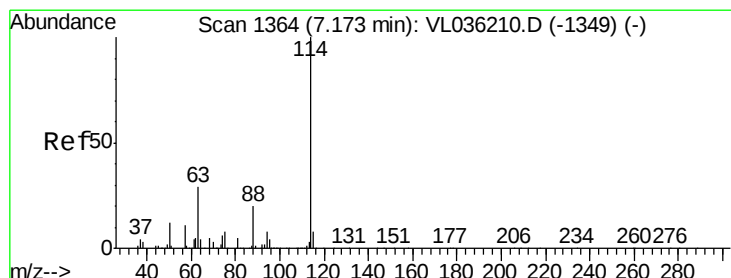
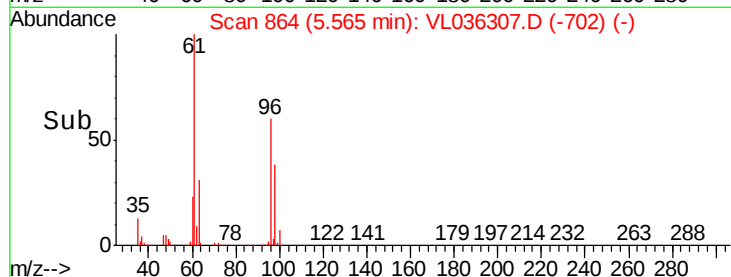
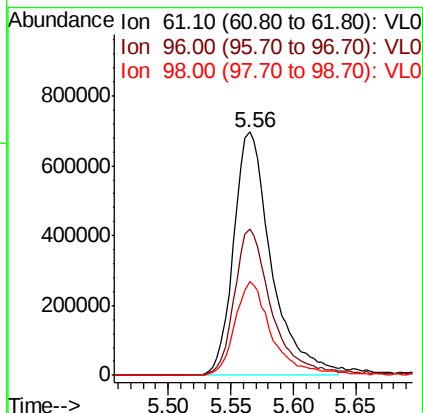
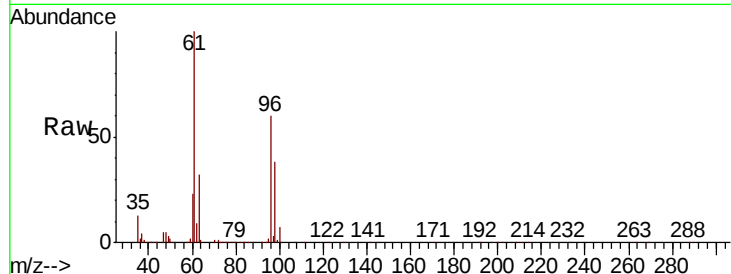


#31

cis-1,2-Dichloroethene
 Concen: 9.639 ppbv
 RT: 5.56 min Scan# 864
 Delta R.T. 0.02 min
 Lab File: VL036307.D
 Acq: 3 Feb 2021 23:53

Instrument :
 MSVOA_L
 ClientSampleId :

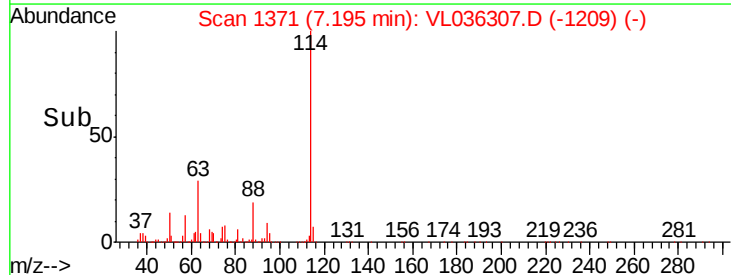
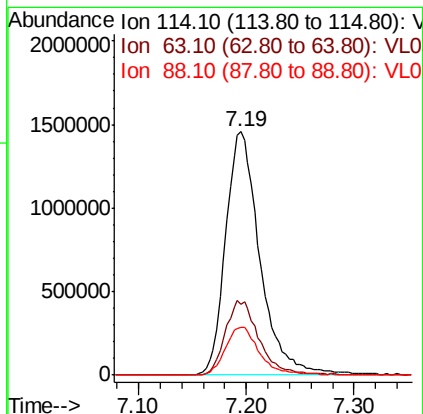
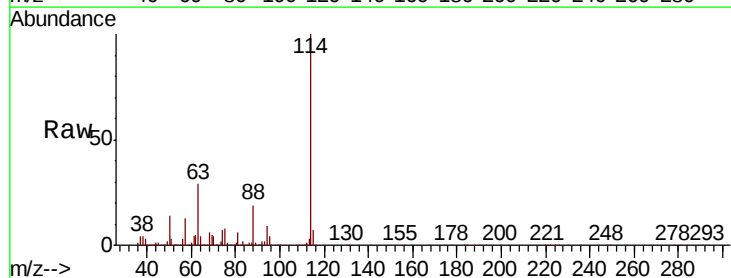
Tot Ion: 61 Resp: 1462170
 Ion Ratio Lower Upper
 61 100
 96 59.8 44.1 66.1
 98 38.4 28.6 42.8

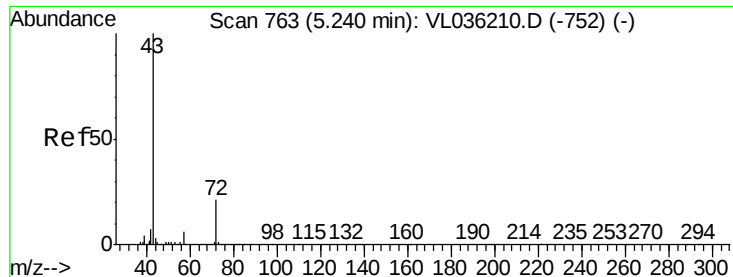


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. 0.02 min
 Lab File: VL036307.D
 Acq: 3 Feb 2021 23:53

Tgt Ion: 114 Resp: 3220399
 Ion Ratio Lower Upper
 114 100
 63 30.6 24.7 37.1
 88 19.9 16.6 24.8

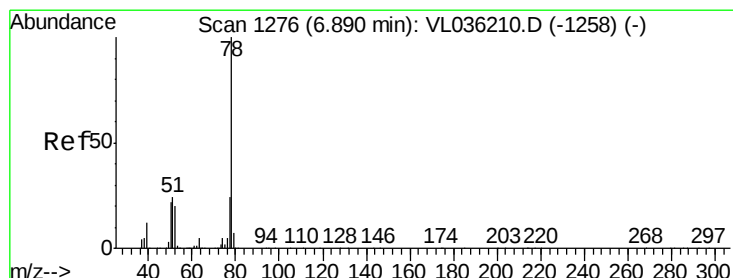
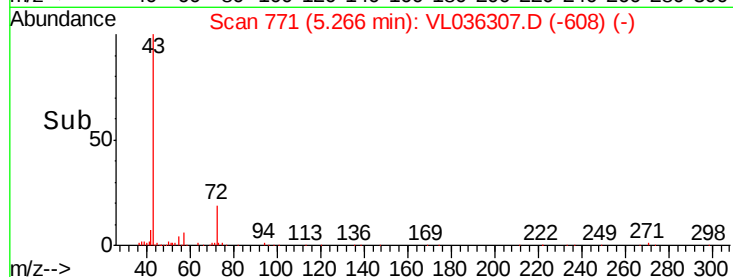
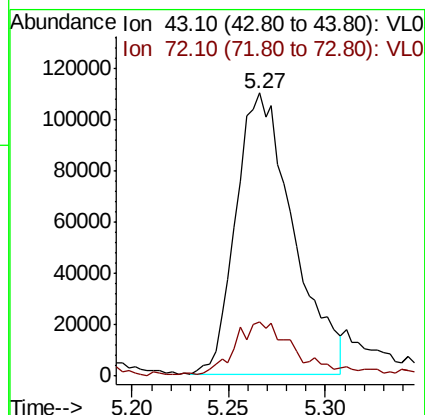
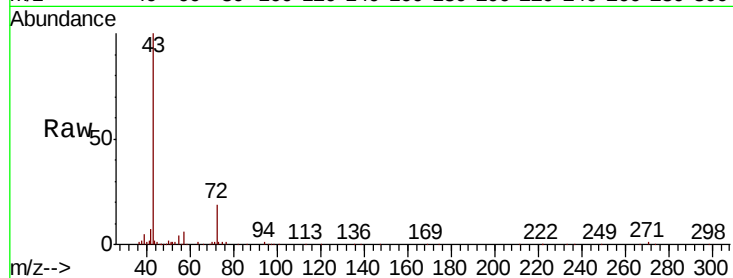




#34
2-Butanone
Concen: 0.950 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.03 min
Lab File: VL036307.D
Acq: 3 Feb 2021 23:53

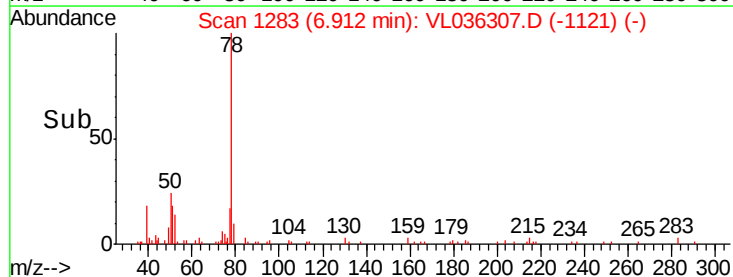
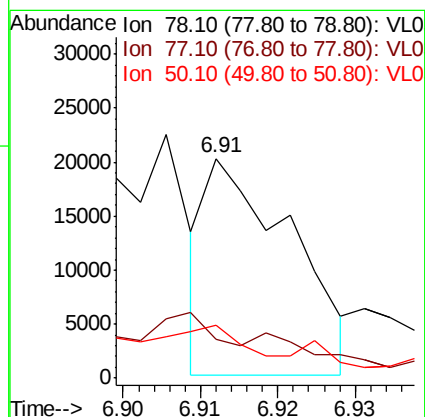
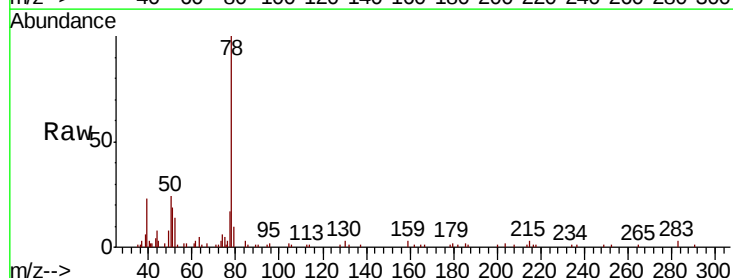
Instrument :
MSVOA_L
ClientSampled :

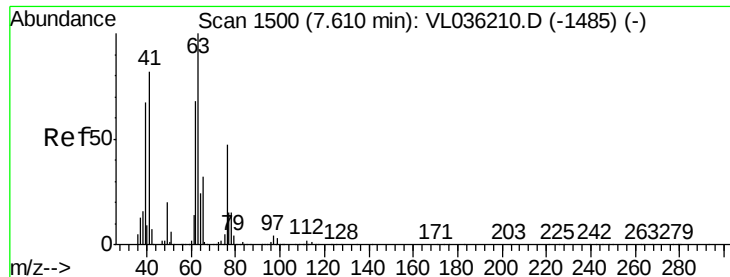
Tot Ion: 43 Resp: 225368
Ion Ratio Lower Upper
43 100
72 23.4 16.1 24.1



#36
Benzene
Concen: 0.053 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. 0.02 min
Lab File: VL036307.D
Acq: 3 Feb 2021 23:53

Tgt Ion: 78 Resp: 15540
Ion Ratio Lower Upper
78 100
77 9.7 19.4 29.0#
50 24.2 17.4 26.2





#39

1,2-Dichloropropane

Concen: 8.093 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.42 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

ClientSampleId :

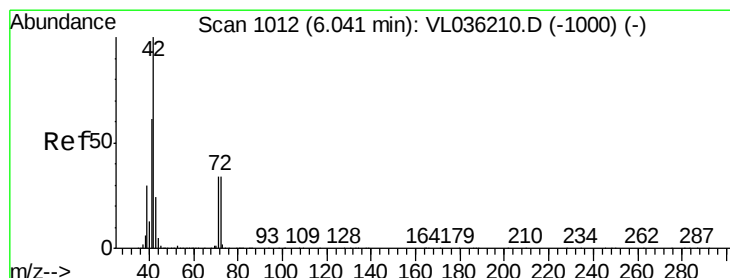
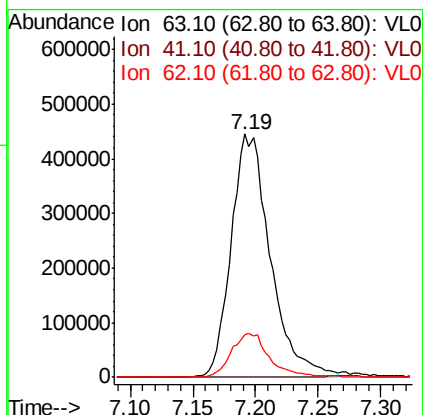
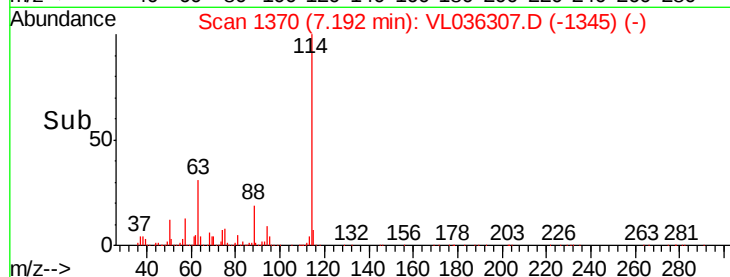
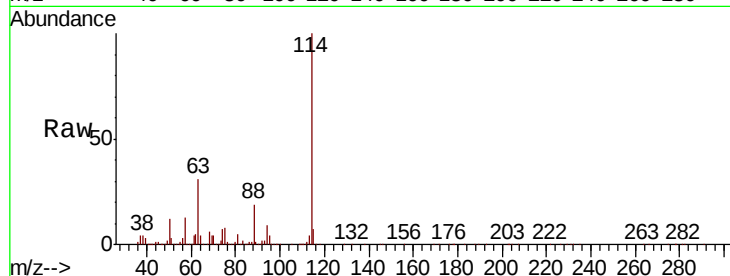
Tot Ion: 63 Resp: 969551

Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 17.5 54.8 82.2#



#41

Tetrahydrofuran

Concen: 0.176 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. 0.04 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

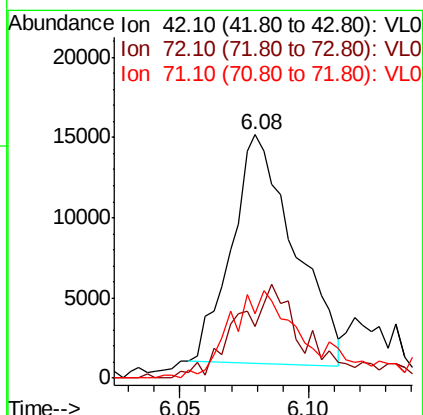
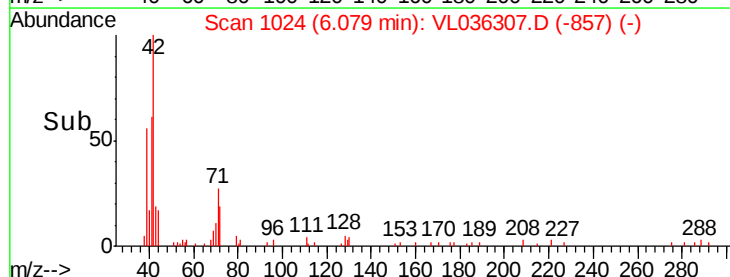
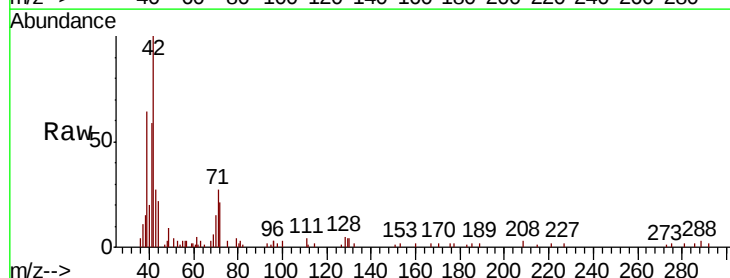
Tgt Ion: 42 Resp: 24142

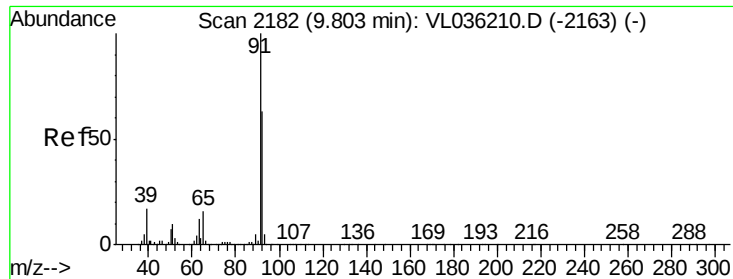
Ion Ratio Lower Upper

42 100

72 44.1 29.5 44.3

71 51.6 29.1 43.7#





#53

Toluene

Concen: 1.139 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. 0.03 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

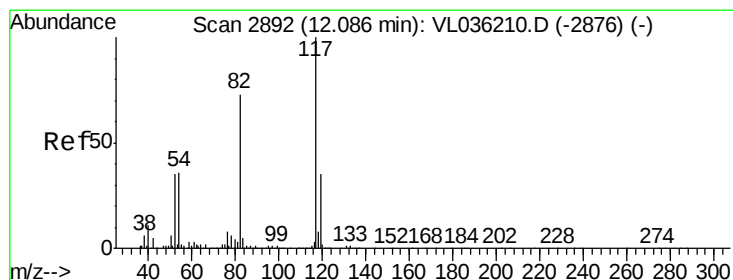
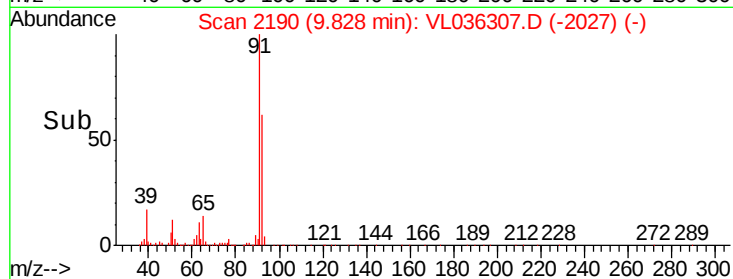
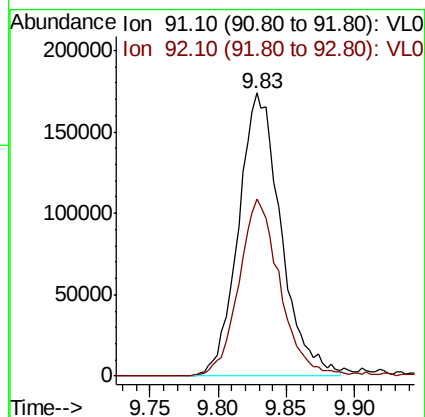
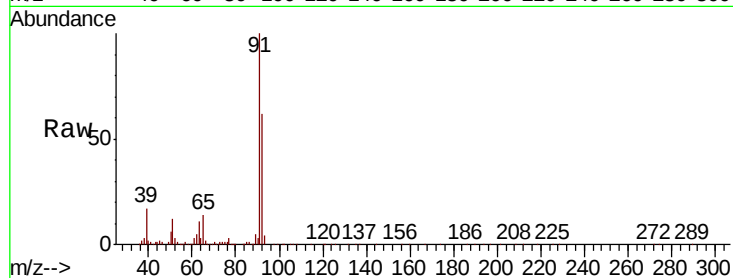
ClientSampleId :

Tot Ion: 91 Resp: 375799

Ion Ratio Lower Upper

91 100

92 61.2 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.03 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

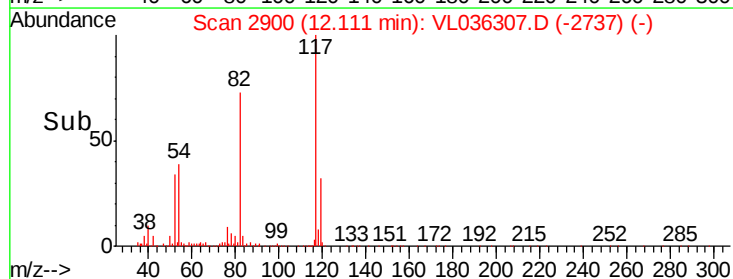
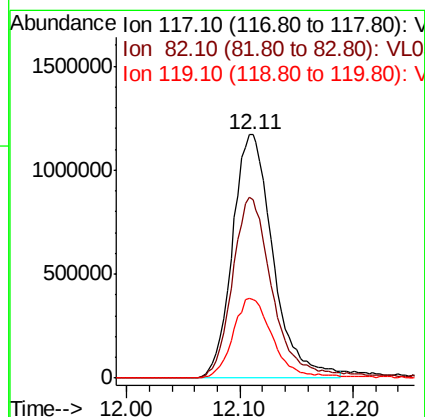
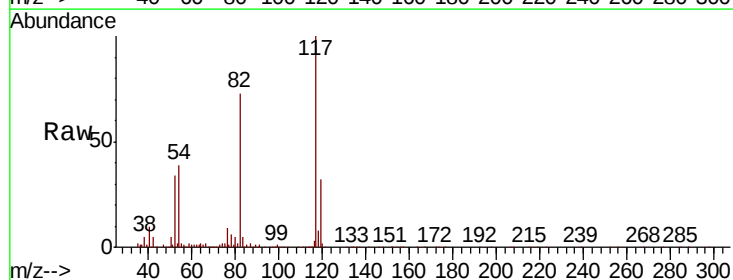
Tgt Ion: 117 Resp: 2912598

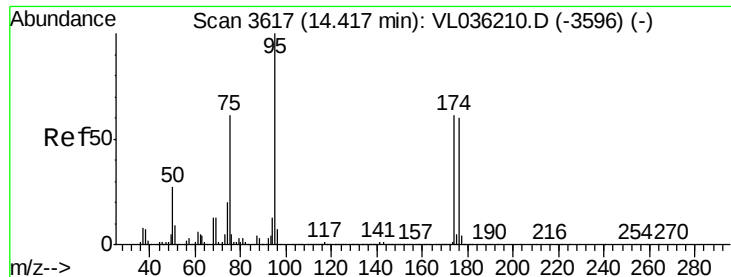
Ion Ratio Lower Upper

117 100

82 75.5 59.7 89.5

119 33.6 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.660 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. 0.02 min

Lab File: VL036307.D

Acq: 3 Feb 2021 23:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2328764

Ion Ratio Lower Upper

95 100

174 66.0 49.4 74.0

175 4.7 3.8 5.8

