

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036277.D
 Acq On : 28 Jan 2021 18:38
 Operator : SY/AP
 Sample : M1245-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 29 02:26:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu 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	5.65	49	1589909	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3464892	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3122899	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2704825	10.46	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

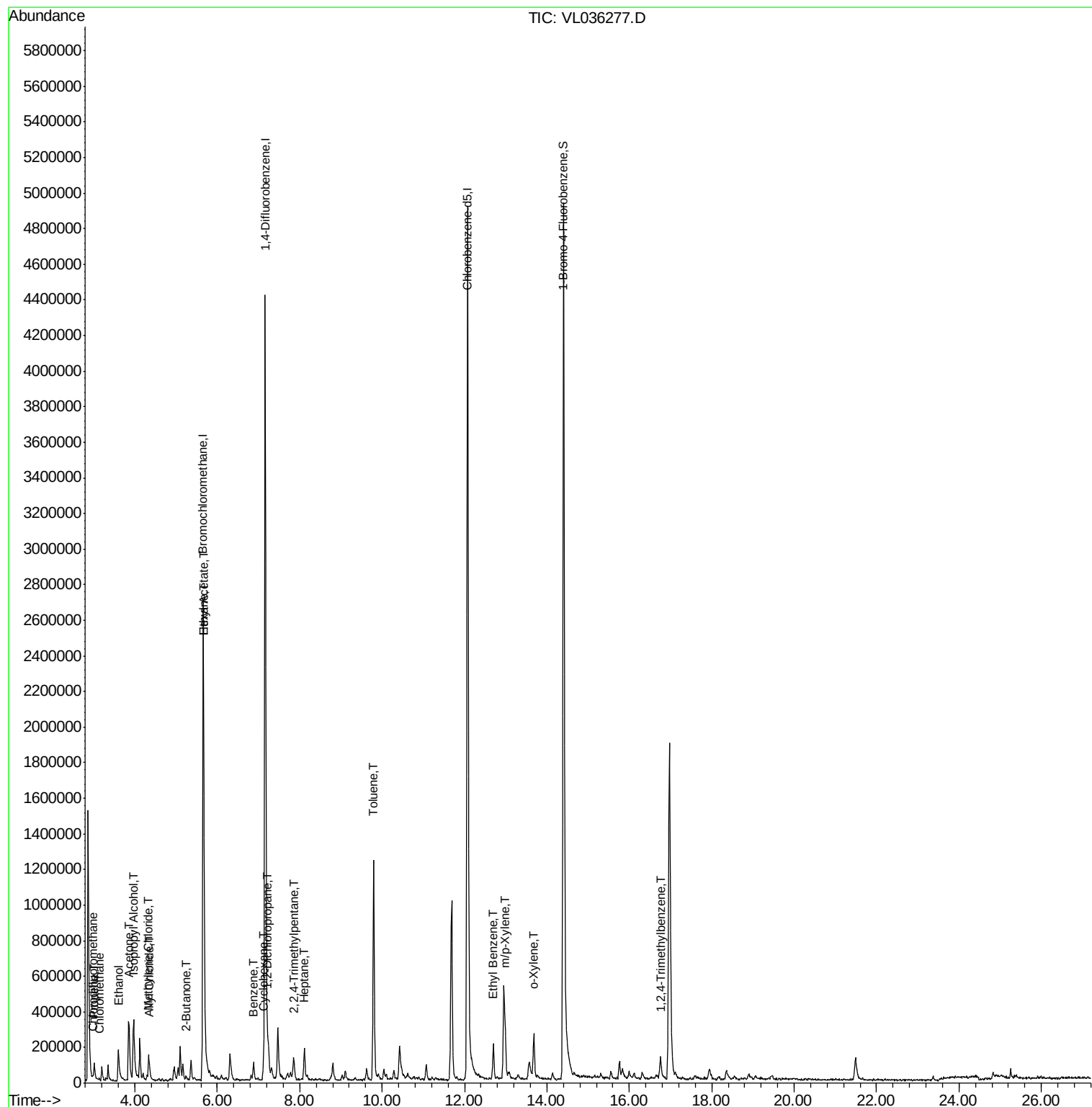
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.98	51	19832	0.102 ppbv	94
4) Chloromethane	3.13	50	3444	0.036 ppbv #	78
9) Propene	3.01	41	24263	0.261 ppbv	95
10) Heptane	8.11	43	73076	0.317 ppbv	92
13) Ethanol	3.59	45	206432	14.139 ppbv	100
15) Acetone	3.84	43	430037	2.209 ppbv	97
19) Isopropyl Alcohol	3.97	45	465054	3.962 ppbv #	96
20) Methylene Chloride	4.34	84	48767	0.785 ppbv	92
21) Allyl Chloride	4.36	41	7316	0.069 ppbv #	21
25) Ethyl Acetate	5.67	43	130987	0.335 ppbv #	80
26) Hexane	5.67	57	174092	1.070 ppbv #	38
30) Cyclohexane	7.12	84	10315	0.083 ppbv #	1
34) 2-Butanone	5.24	43	20772	0.081 ppbv #	77
36) Benzene	6.87	78	36400	0.115 ppbv	92
39) 1,2-Dichloropropane	7.22	63	16350	0.127 ppbv #	53
44) 2,2,4-Trimethylpentane	7.86	57	52551	0.090 ppbv #	21
53) Toluene	9.80	91	972651	2.739 ppbv	100
58) Ethyl Benzene	12.69	91	57085	0.123 ppbv	99
59) m/p-Xylene	12.99	91	110327	0.277 ppbv #	33
60) o-Xylene	13.68	91	193894	0.505 ppbv	98
74) 1,2,4-Trimethylbenzene	16.76	105	95722	0.226 ppbv #	65

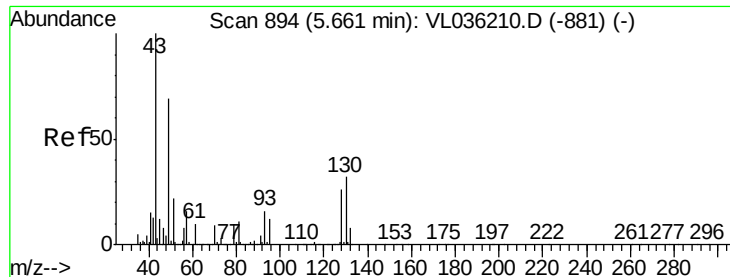
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

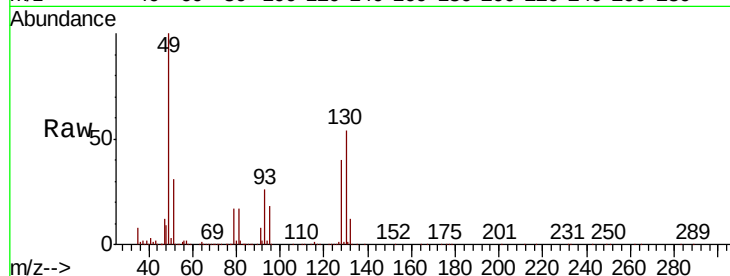
Tot Ion: 49 Resp: 1589909

Ion Ratio Lower Upper

49 100

128 41.5 20.1 60.2

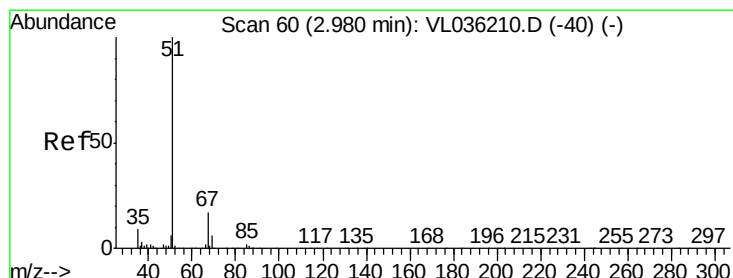
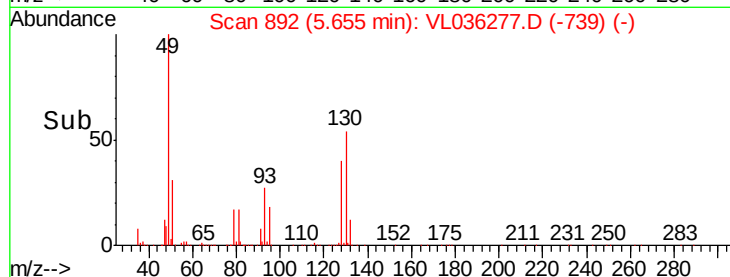
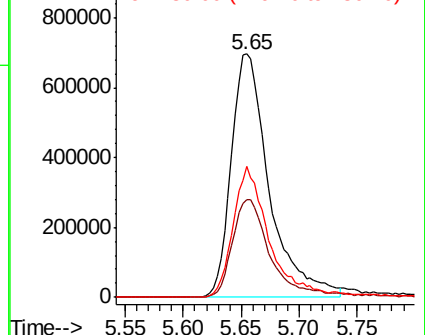
130 52.4 25.3 75.9



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: 0.102 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL036277.D

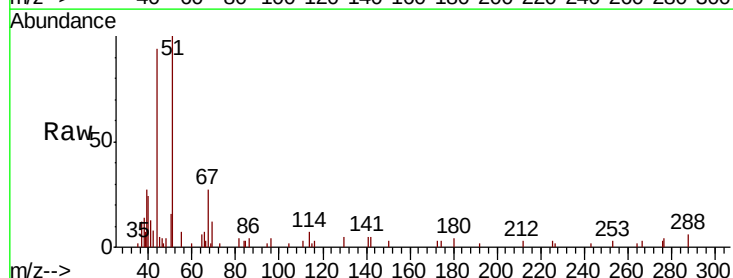
Acq: 28 Jan 2021 18:38

Tgt Ion: 51 Resp: 19832

Ion Ratio Lower Upper

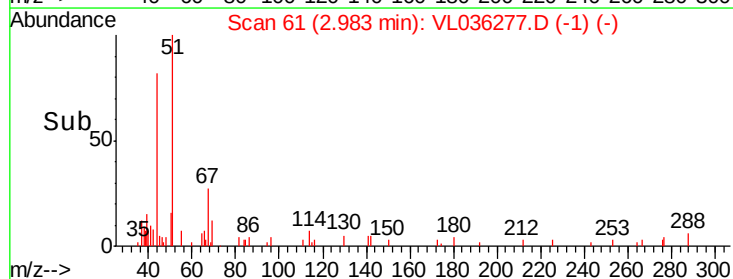
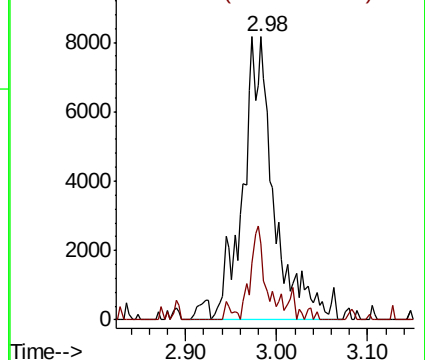
51 100

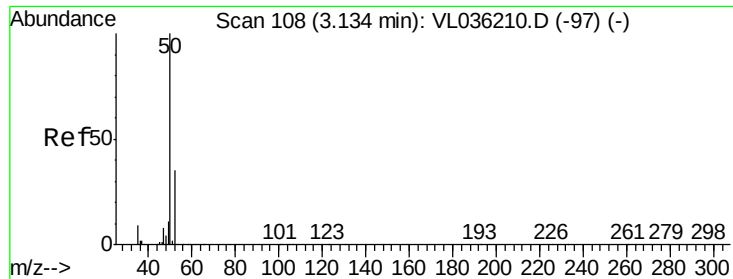
67 20.1 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

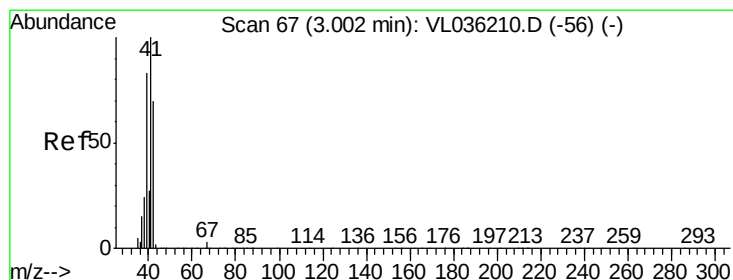
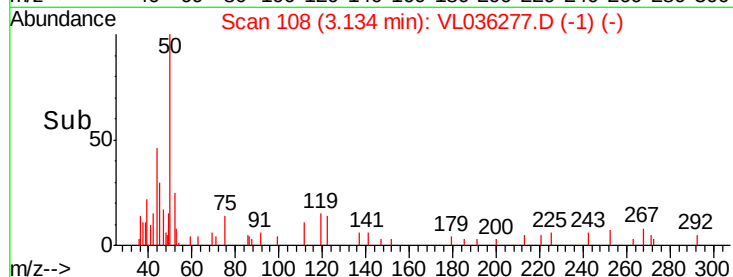
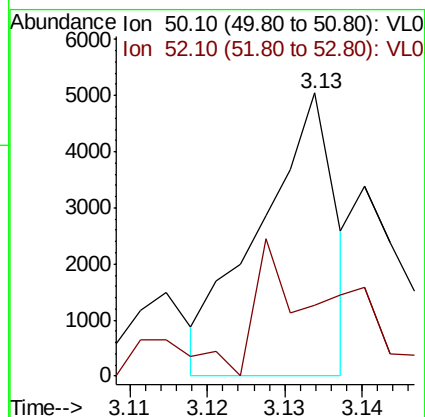
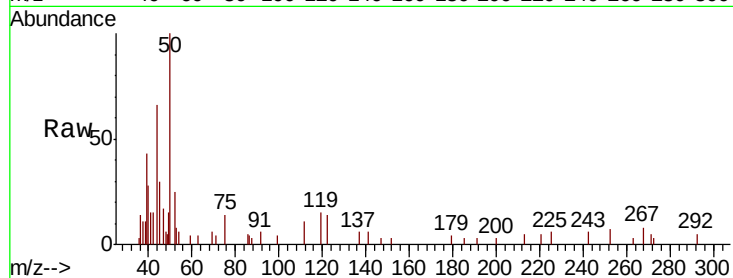
ClientSampleId :

Tot Ion: 50 Resp: 3444

Ion Ratio Lower Upper

50 100

52 21.9 27.8 41.8#



#9

Propene

Concen: 0.261 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL036277.D

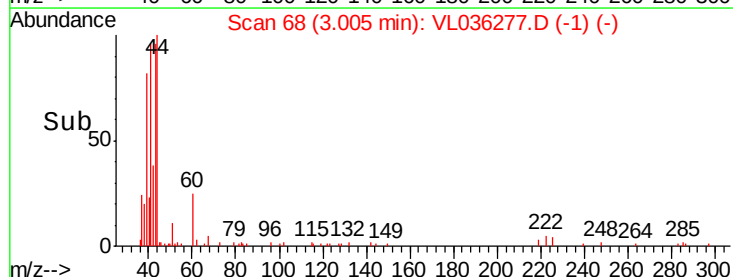
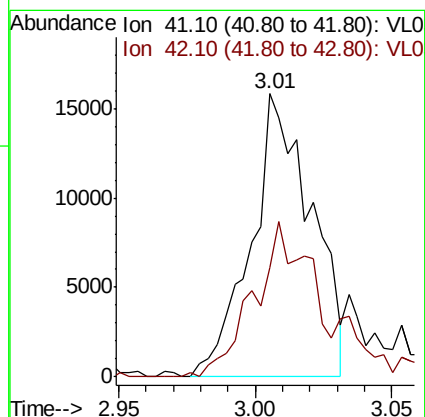
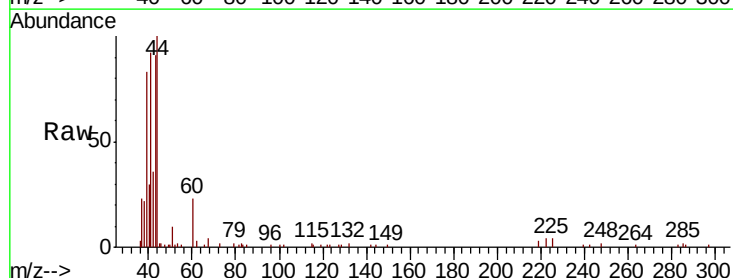
Acq: 28 Jan 2021 18:38

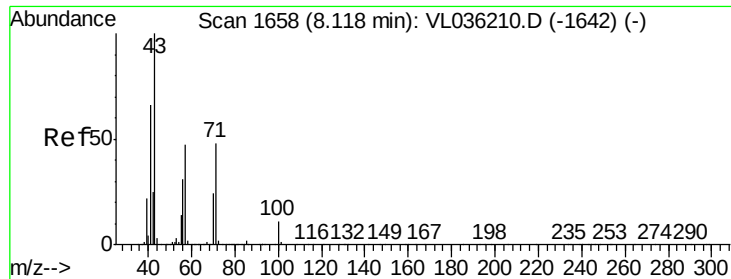
Tgt Ion: 41 Resp: 24263

Ion Ratio Lower Upper

41 100

42 66.9 57.1 85.7

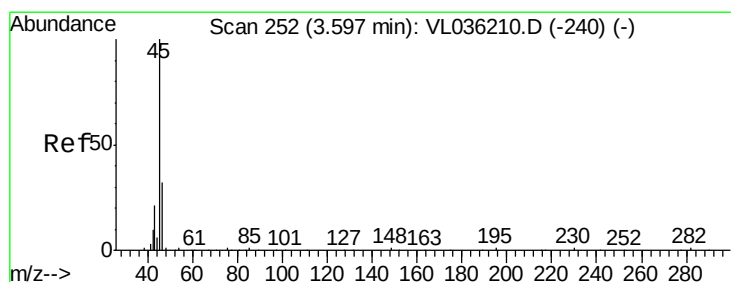
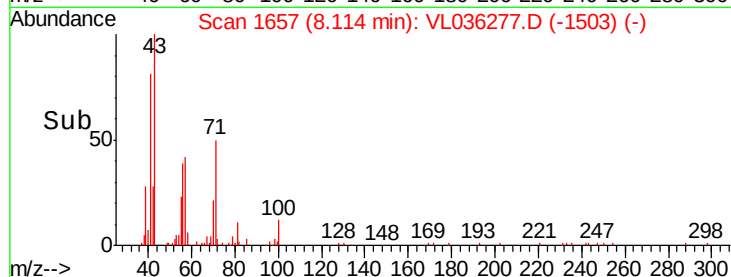
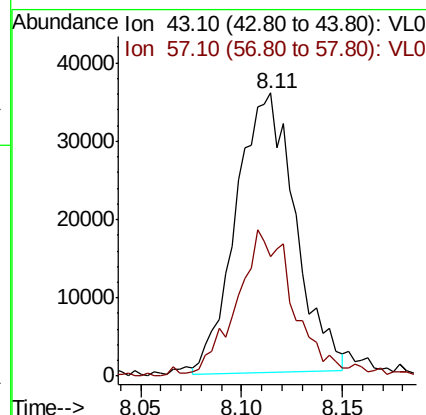
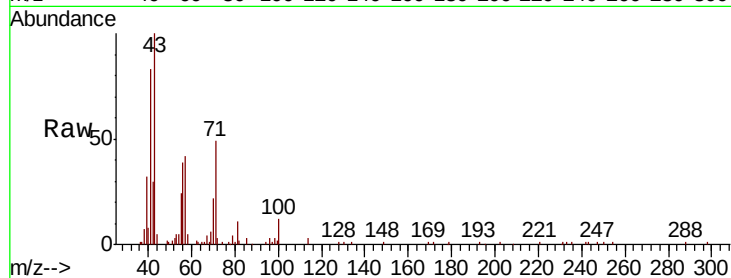




#10
 Heptane
 Concen: 0.317 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.00 min
 Lab File: VL036277.D
 Acq: 28 Jan 2021 18:38

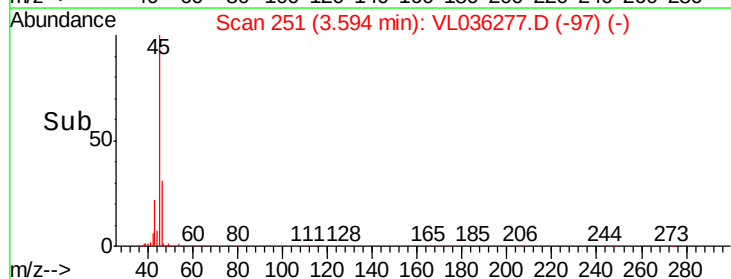
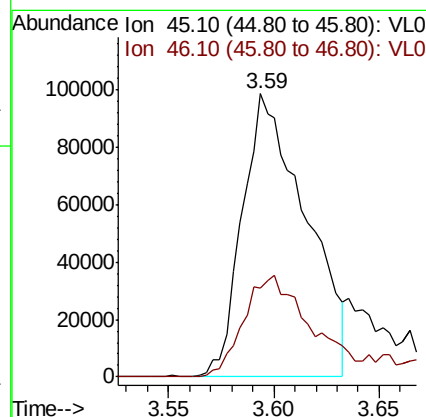
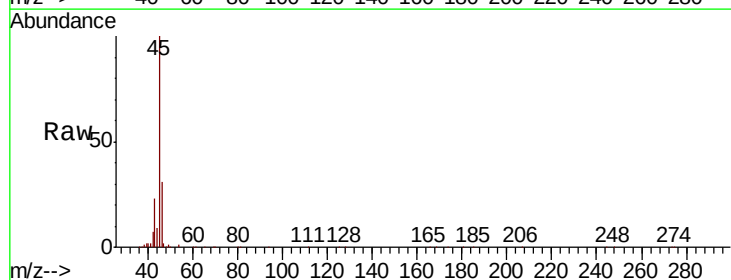
Instrument :
 MSVOA_L
 ClientSampleId :

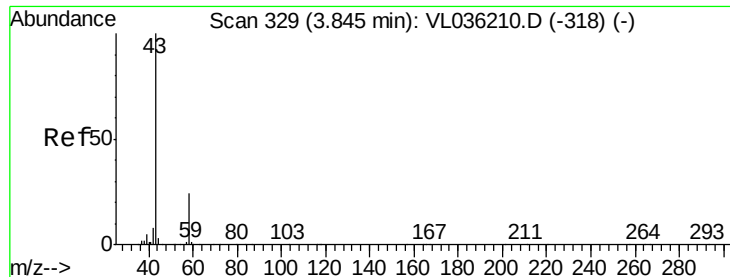
Tot Ion: 43 Resp: 73076
 Ion Ratio Lower Upper
 43 100
 57 53.0 38.1 57.1



#13
 Ethanol
 Concen: 14.139 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. -0.00 min
 Lab File: VL036277.D
 Acq: 28 Jan 2021 18:38

Tgt Ion: 45 Resp: 206432
 Ion Ratio Lower Upper
 45 100
 46 48.0 19.2 77.0

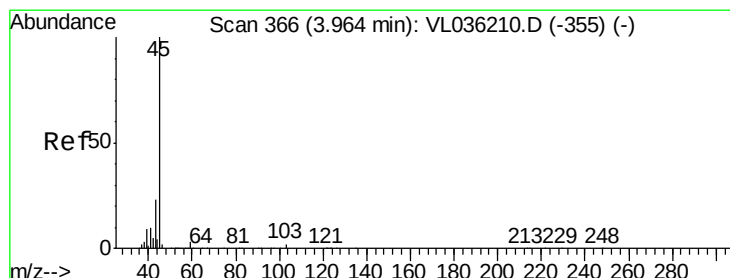
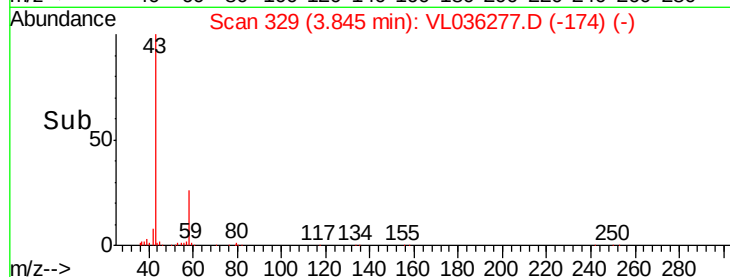
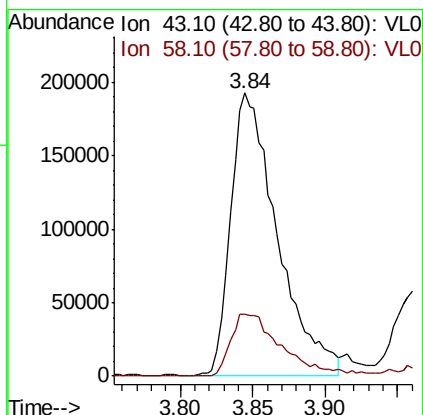
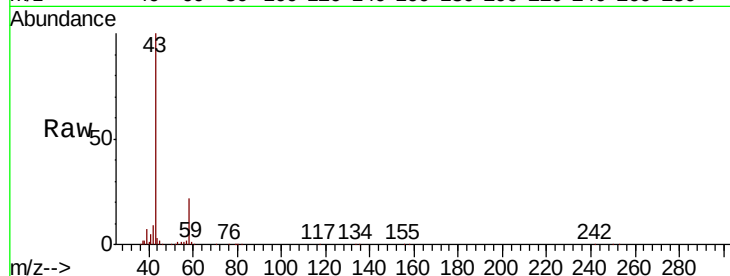




#15
Acetone
Concen: 2.209 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

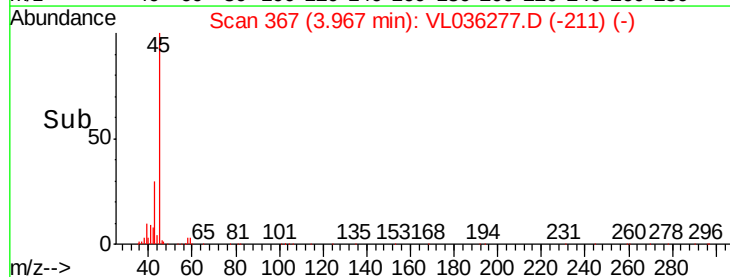
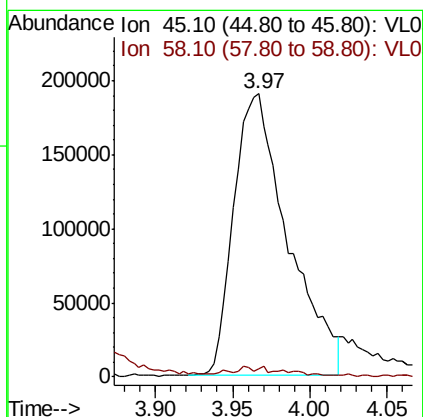
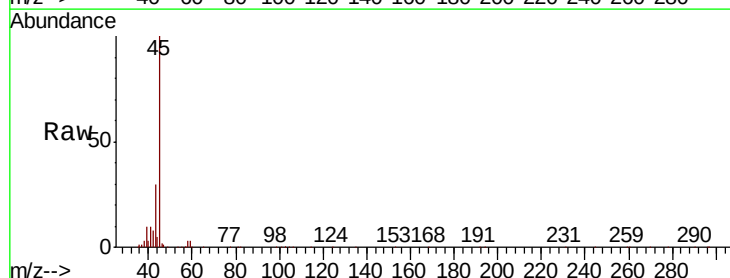
Instrument :
MSVOA_L
ClientSampleId :

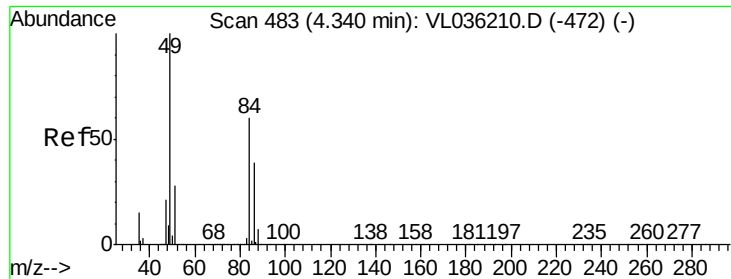
Tot Ion: 43 Resp: 430037
Ion Ratio Lower Upper
43 100
58 24.4 20.9 31.3



#19
Isopropyl Alcohol
Concen: 3.962 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion: 45 Resp: 465054
Ion Ratio Lower Upper
45 100
58 3.6 1.9 2.9#

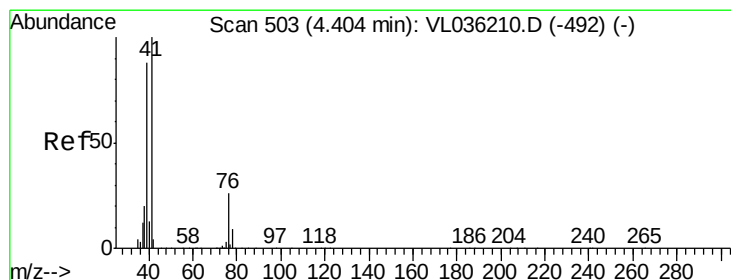
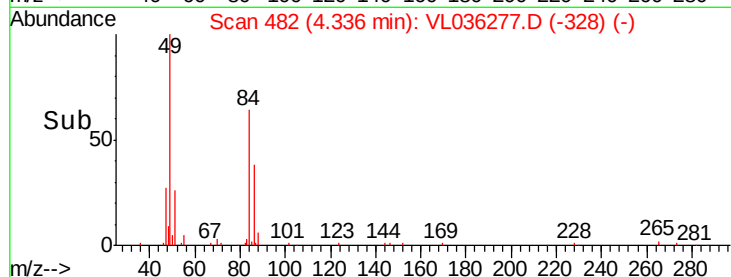
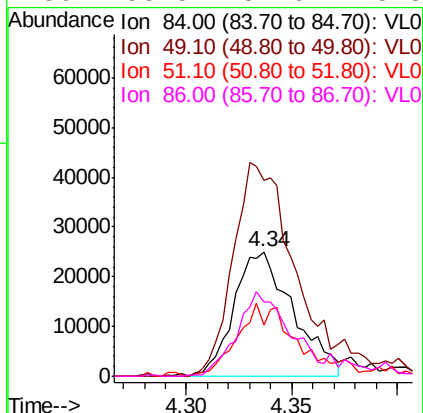
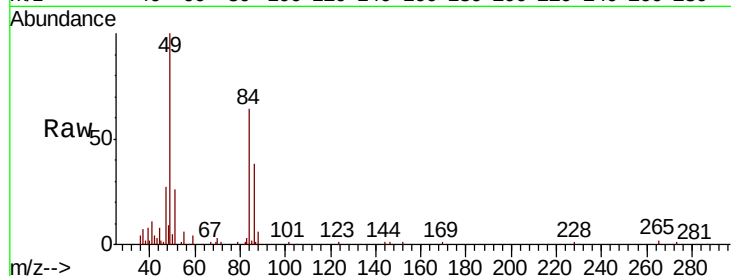




#20
Methylene Chloride
Concen: 0.785 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

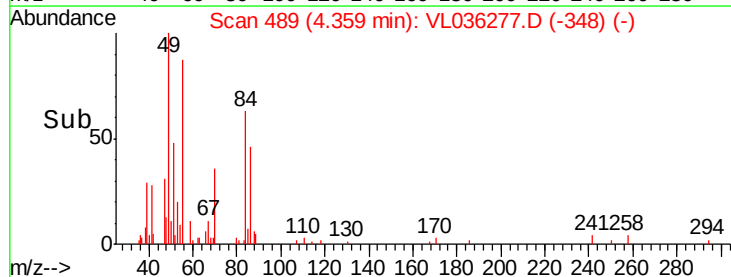
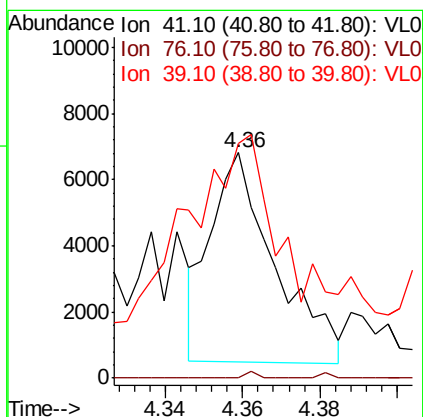
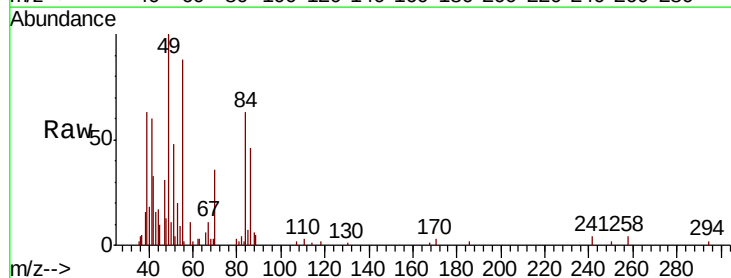
Instrument :
MSVOA_L
ClientSampleId :

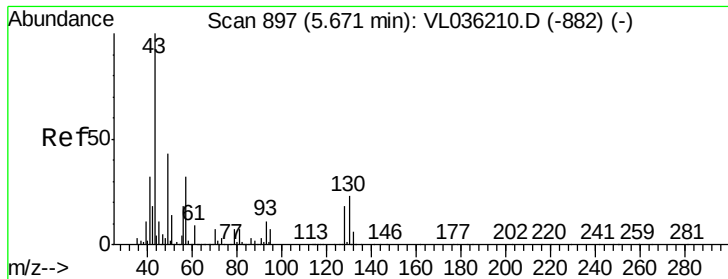
Tot Ion:	84	Resp:	48767
Ion	Ratio	Lower	Upper
84	100		
49	157.1	134.1	201.1
51	40.9	37.4	56.0
86	58.5	52.6	78.8



#21
Allyl Chloride
Concen: 0.069 ppbv
RT: 4.36 min Scan# 489
Delta R.T. -0.05 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion:	41	Resp:	7316
Ion	Ratio	Lower	Upper
41	100		
76	0.0	20.5	30.7#
39	164.9	67.8	101.8#





#25

Ethyl Acetate

Concen: 0.335 ppbv

RT: 5.67 min Scan# 898

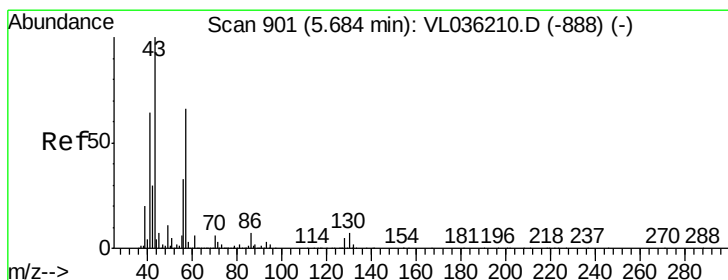
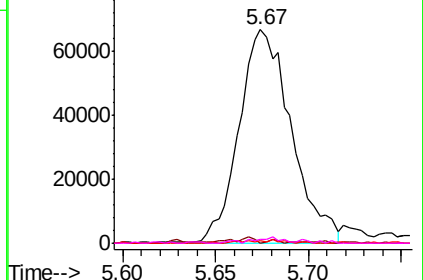
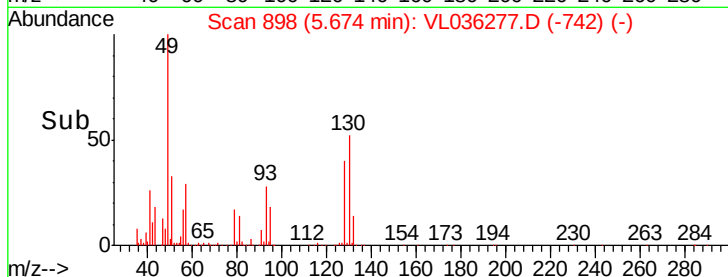
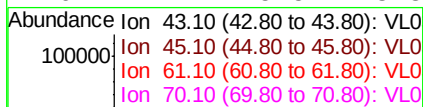
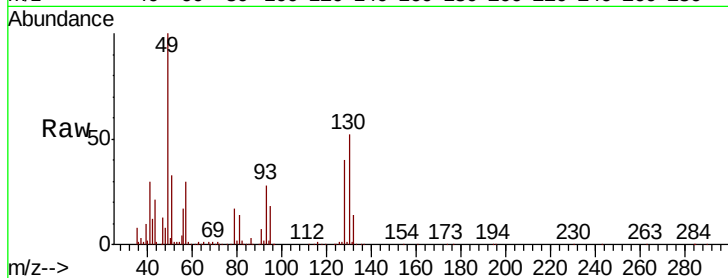
Delta R.T. 0.00 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	130987
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.3	12.5#
61	1.3	7.4	11.2#
70	2.4	5.5	8.3#



#26

Hexane

Concen: 1.070 ppbv

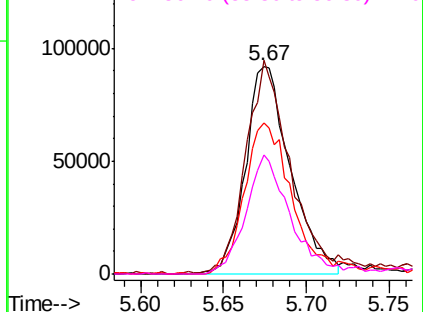
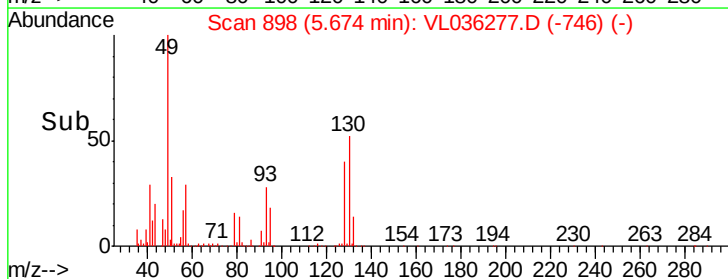
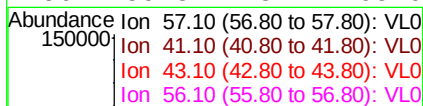
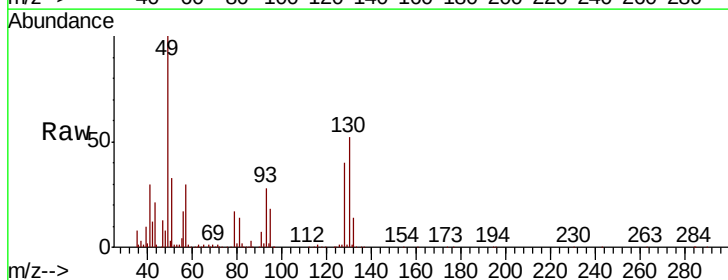
RT: 5.67 min Scan# 898

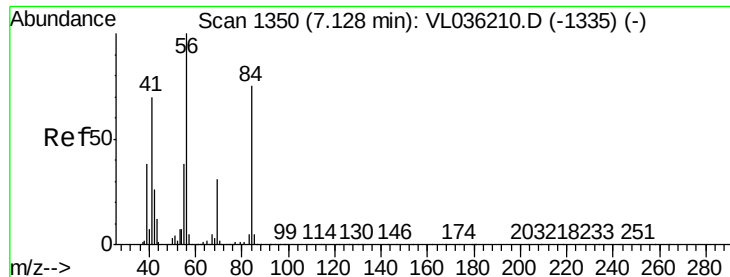
Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Tgt Ion:	57	Resp:	174092
Ion	Ratio	Lower	Upper
57	100		
41	109.2	83.0	124.6
43	81.5	202.4	303.6#
56	59.3	43.4	65.0

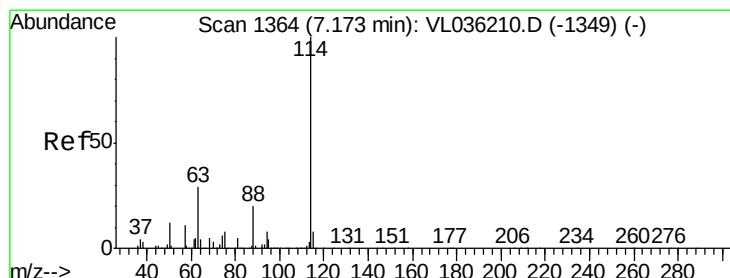
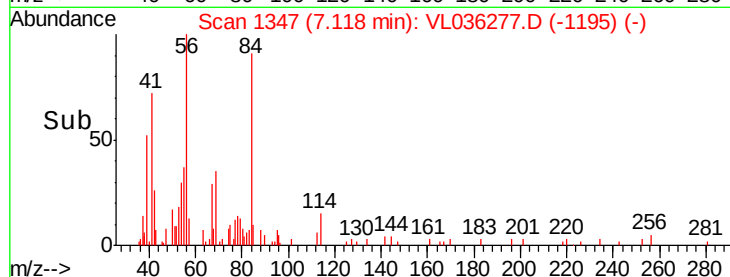
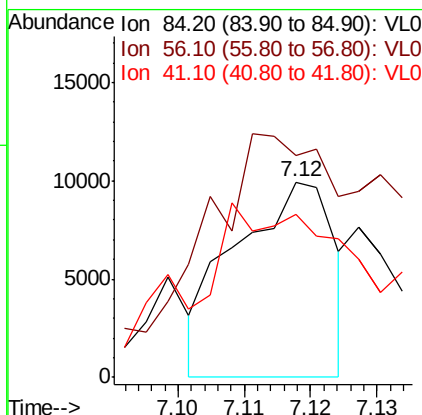
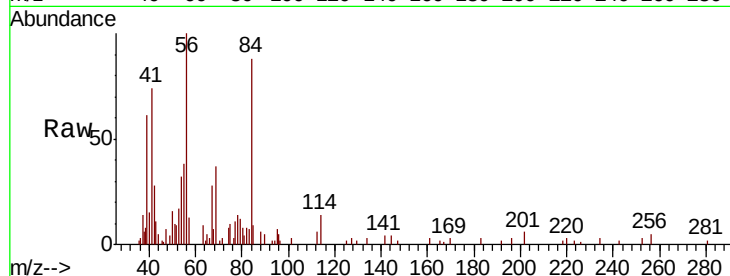




#30
Cvclohexane
Concen: 0.083 ppbv
RT: 7.12 min Scan# 1347
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

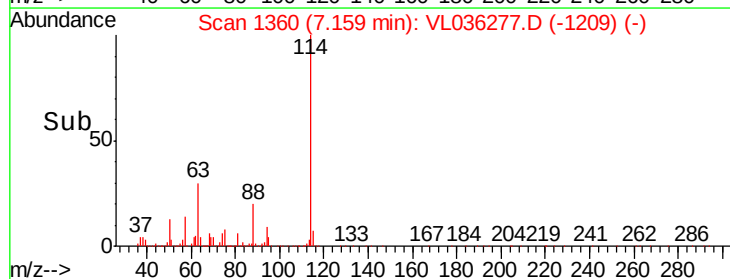
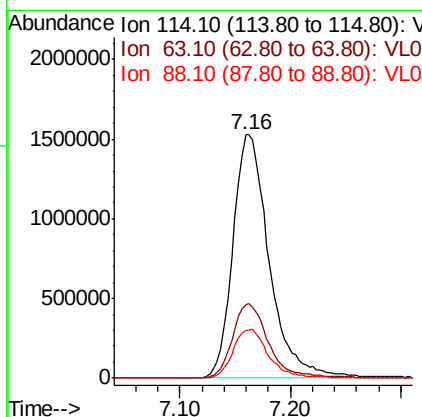
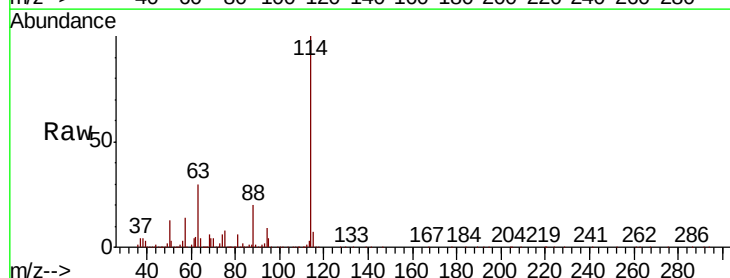
Instrument :
MSVOA_L
ClientSampleId :

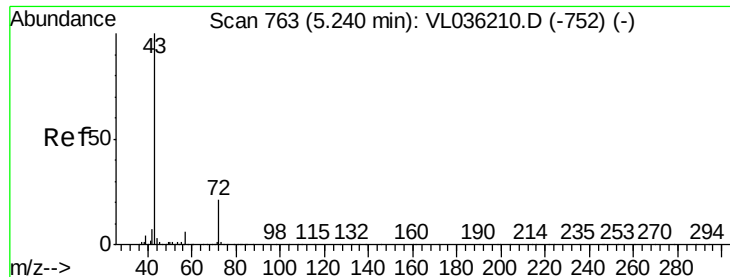
Tot Ion: 84 Resp: 10315
Ion Ratio Lower Upper
84 100
56 0.0 119.4 179.0#
41 0.0 79.4 119.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion: 114 Resp: 3464892
Ion Ratio Lower Upper
114 100
63 31.0 24.7 37.1
88 20.1 16.6 24.8

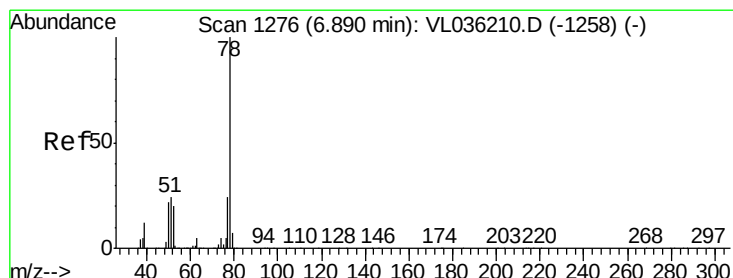
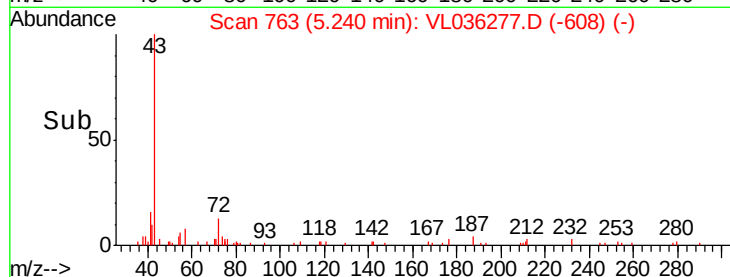
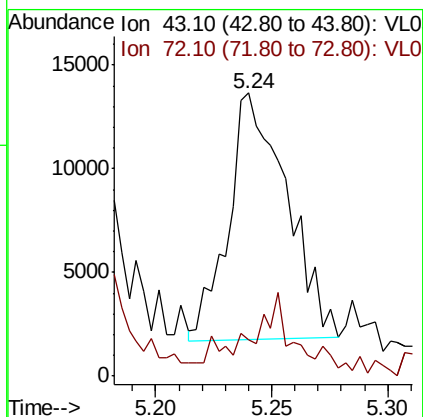
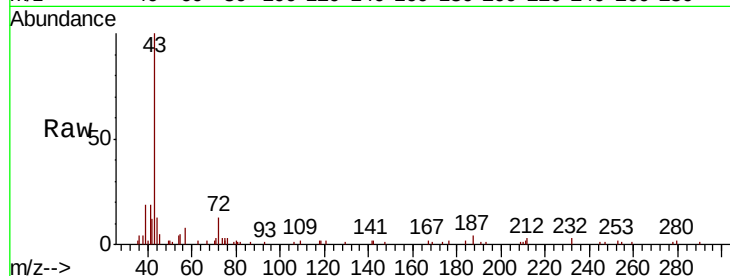




#34
2-Butanone
Concen: 0.081 ppbv
RT: 5.24 min Scan# 763
Delta R.T. -0.00 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

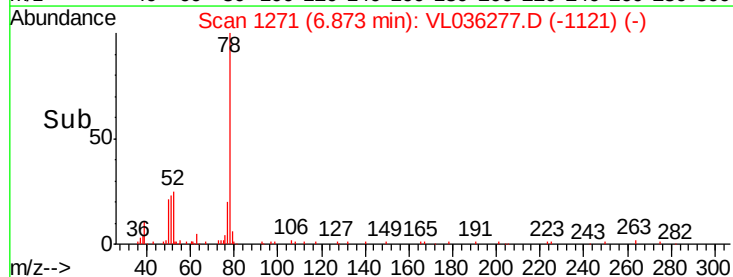
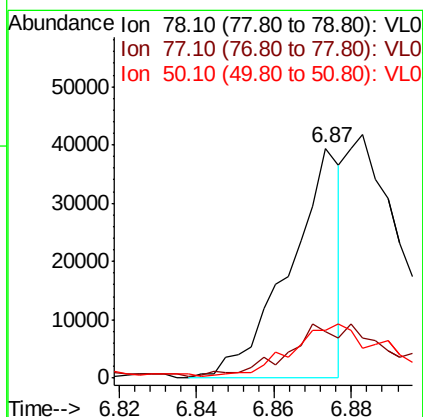
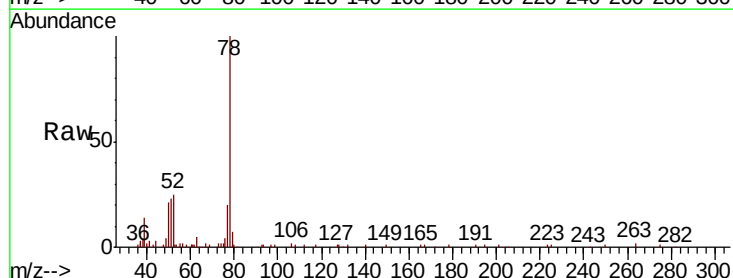
Instrument :
MSVOA_L
ClientSampleId :

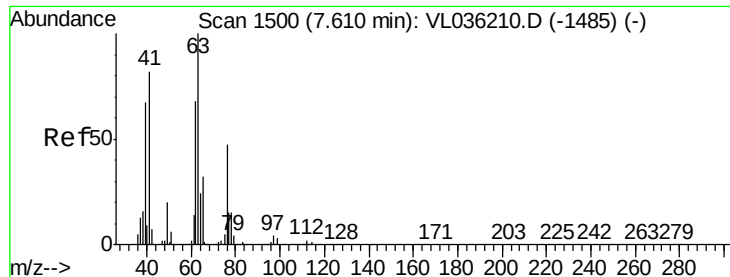
Tot Ion: 43 Resp: 20772
Ion Ratio Lower Upper
43 100
72 30.5 16.1 24.1#



#36
Benzene
Concen: 0.115 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.02 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion: 78 Resp: 36400
Ion Ratio Lower Upper
78 100
77 19.6 19.4 29.0
50 18.7 17.4 26.2





#39

1,2-Dichloropropane

Concen: 0.127 ppbv

RT: 7.22 min Scan# 1380

Delta R.T. -0.39 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

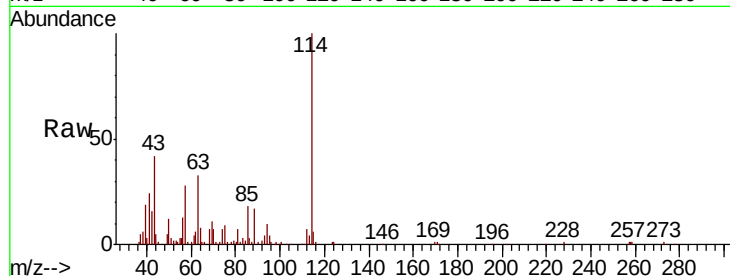
Tot Ion: 63 Resp: 16350

Ion Ratio Lower Upper

63 100

41 60.5 66.1 99.1#

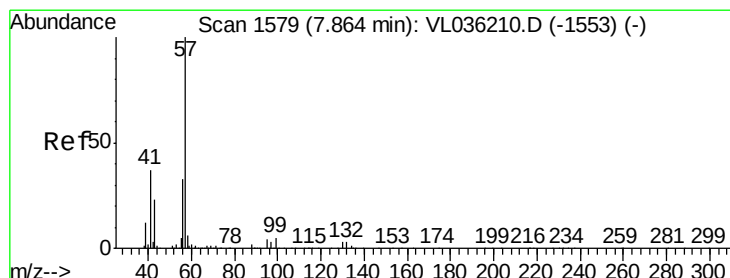
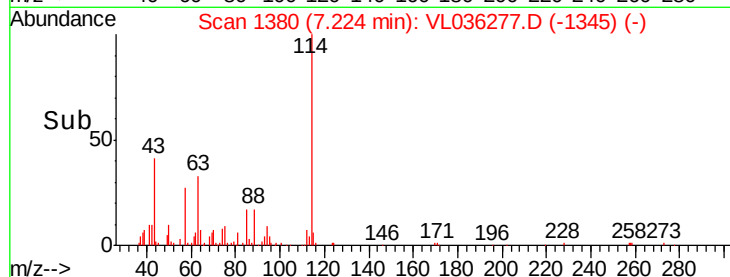
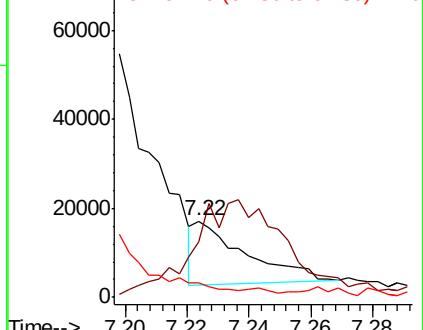
62 8.4 54.8 82.2#



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



#44

2,2,4-Trimethylpentane

Concen: 0.090 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

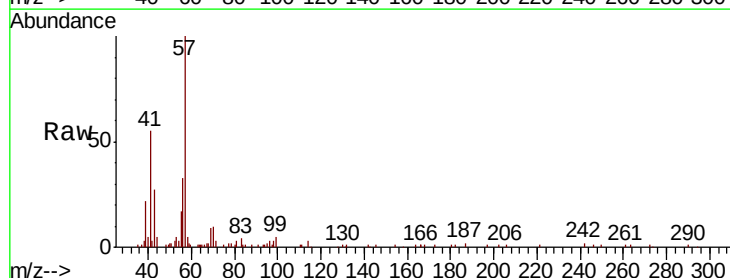
Tgt Ion: 57 Resp: 52551

Ion Ratio Lower Upper

57 100

41 93.4 28.5 42.7#

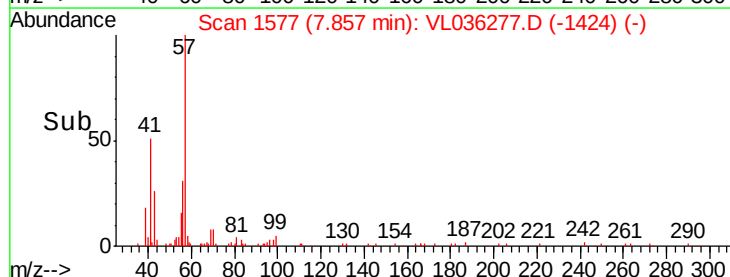
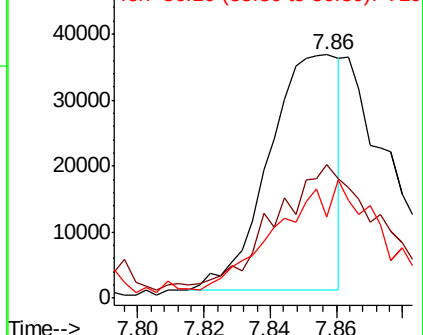
56 0.0 25.5 38.3#

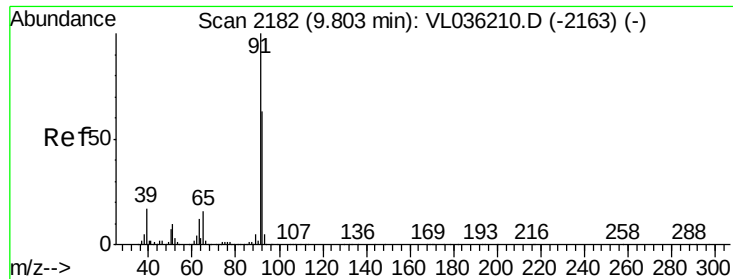


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 2.739 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

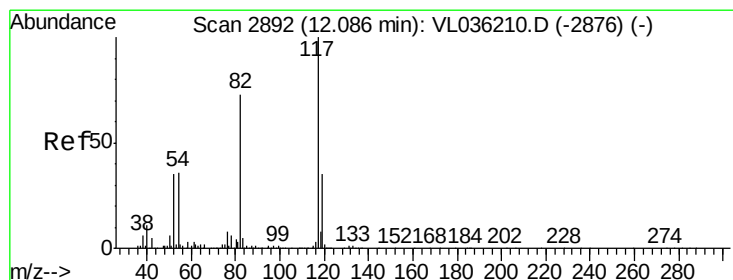
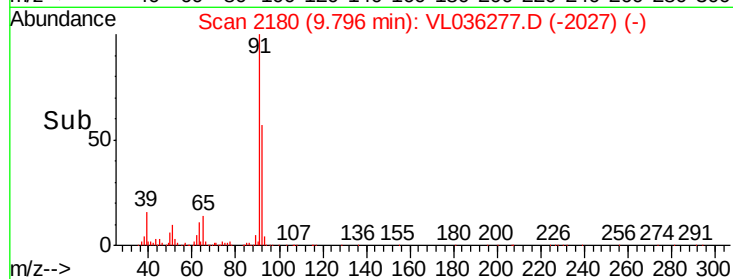
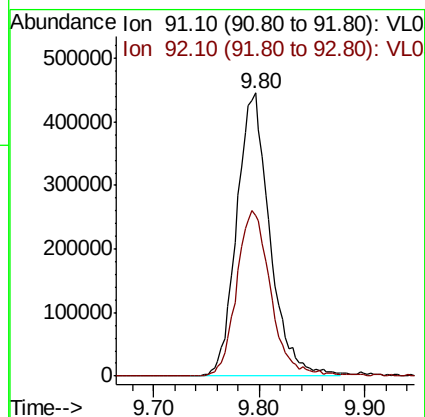
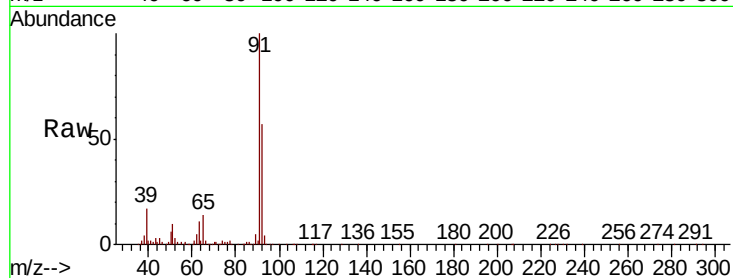
ClientSampleId :

Tot Ion: 91 Resp: 972651

Ion Ratio Lower Upper

91 100

92 60.6 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

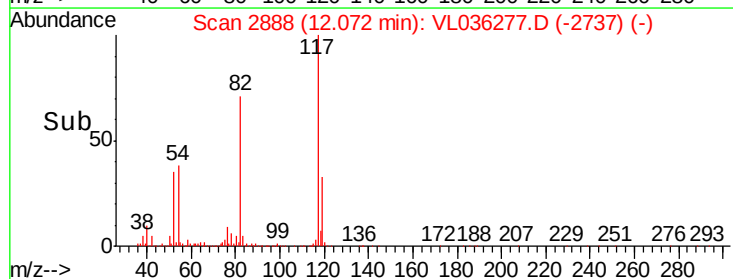
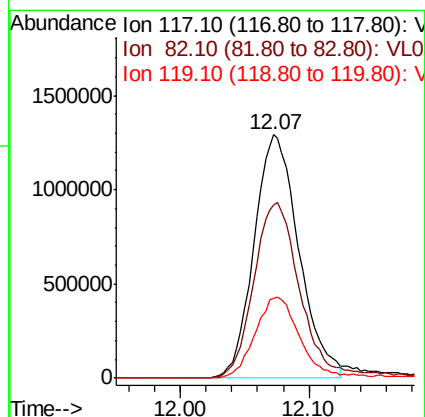
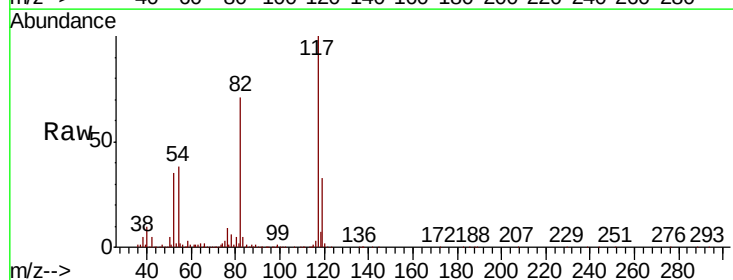
Tgt Ion: 117 Resp: 3122899

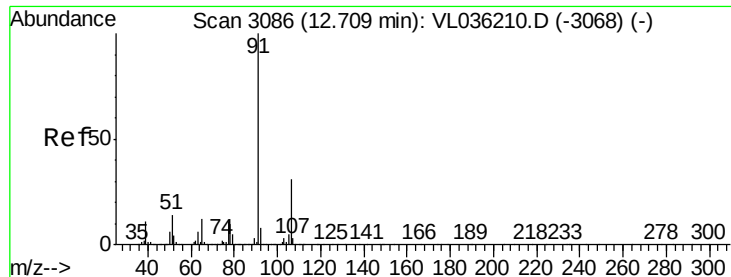
Ion Ratio Lower Upper

117 100

82 77.1 59.7 89.5

119 34.0 28.6 43.0





#58

Ethyl Benzene

Concen: 0.123 ppbv

RT: 12.69 min Scan# 3080

Delta R.T. -0.02 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

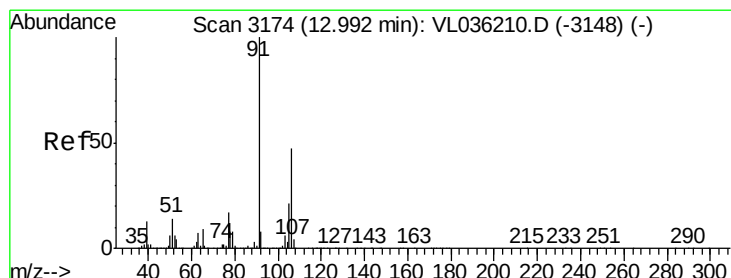
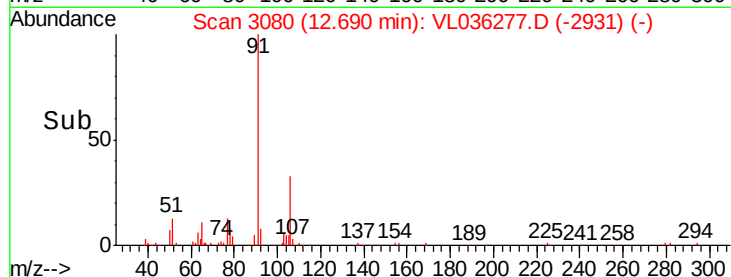
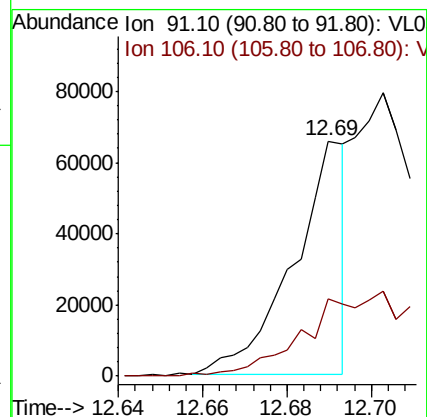
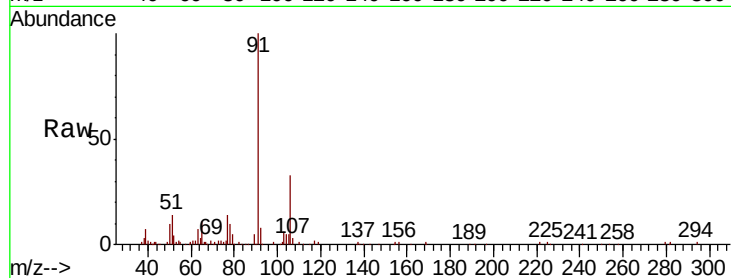
ClientSampleId :

Tot Ion: 91 Resp: 57085

Ion Ratio Lower Upper

91 100

106 31.6 24.8 37.2



#59

m/p-Xylene

Concen: 0.277 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.00 min

Lab File: VL036277.D

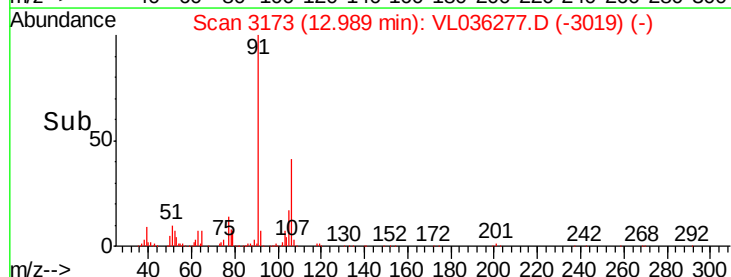
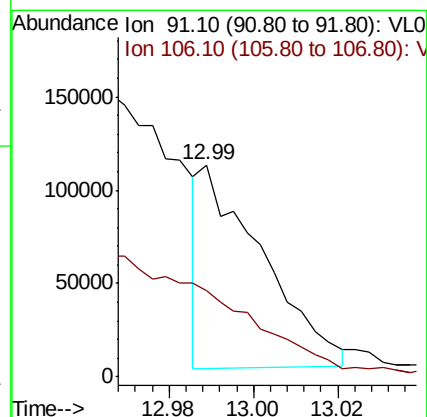
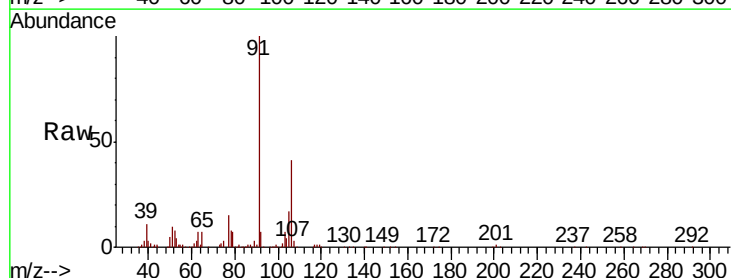
Acq: 28 Jan 2021 18:38

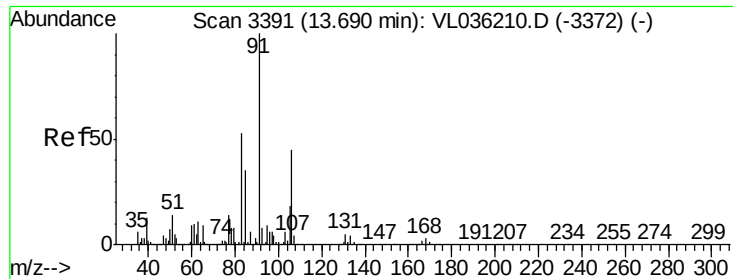
Tgt Ion: 91 Resp: 110327

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#

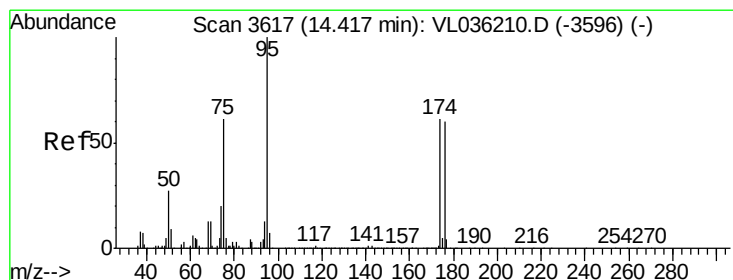
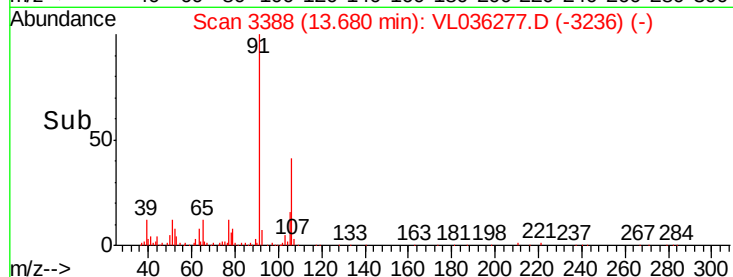
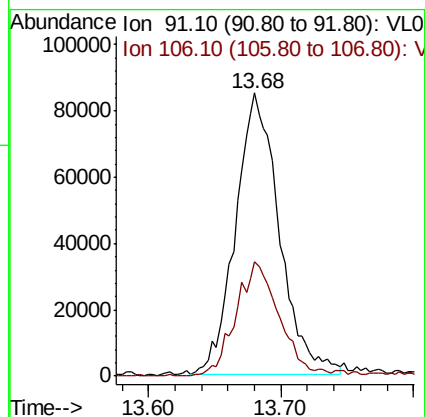
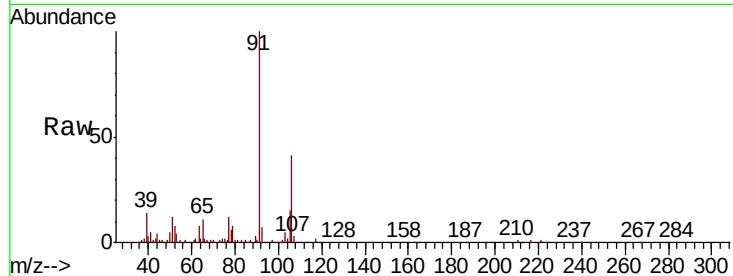




#60
o-Xylene
Concen: 0.505 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

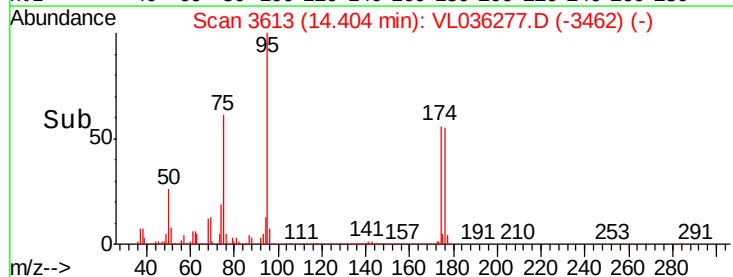
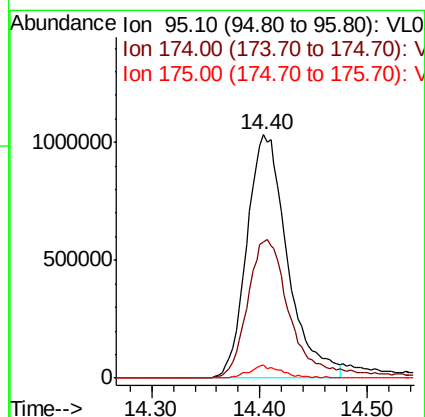
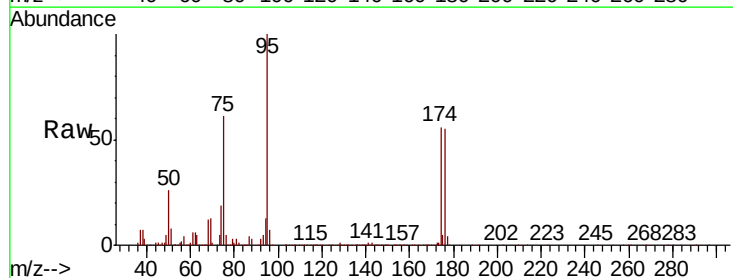
Instrument :
MSVOA_L
ClientSampled :

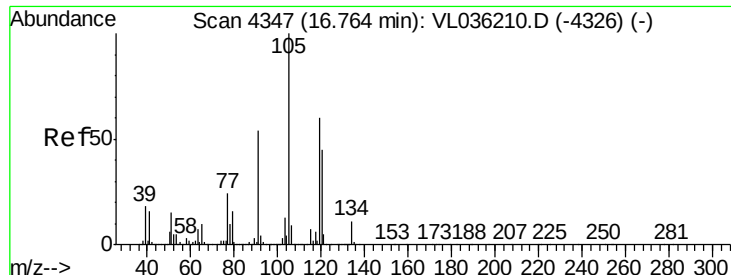
Tot Ion: 91 Resp: 193894
Ion Ratio Lower Upper
91 100
106 42.4 21.9 65.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.464 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.01 min
Lab File: VL036277.D
Acq: 28 Jan 2021 18:38

Tgt Ion: 95 Resp: 2704825
Ion Ratio Lower Upper
95 100
174 62.2 49.4 74.0
175 4.7 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.226 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL036277.D

Acq: 28 Jan 2021 18:38

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 95722

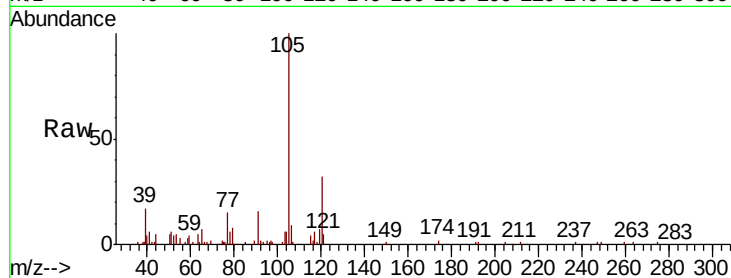
Ion Ratio Lower Upper

105 100

120 32.2 36.2 54.2#

91 14.3 43.3 64.9#

77 14.8 19.1 28.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

