

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051420\
 Data File : VL035021.D
 Acq On : 14 May 2020 15:48
 Operator : SY/AP
 Sample : L2567-05DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 15 01:08:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	998377	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	2321613	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2260023	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1918259	10.49	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

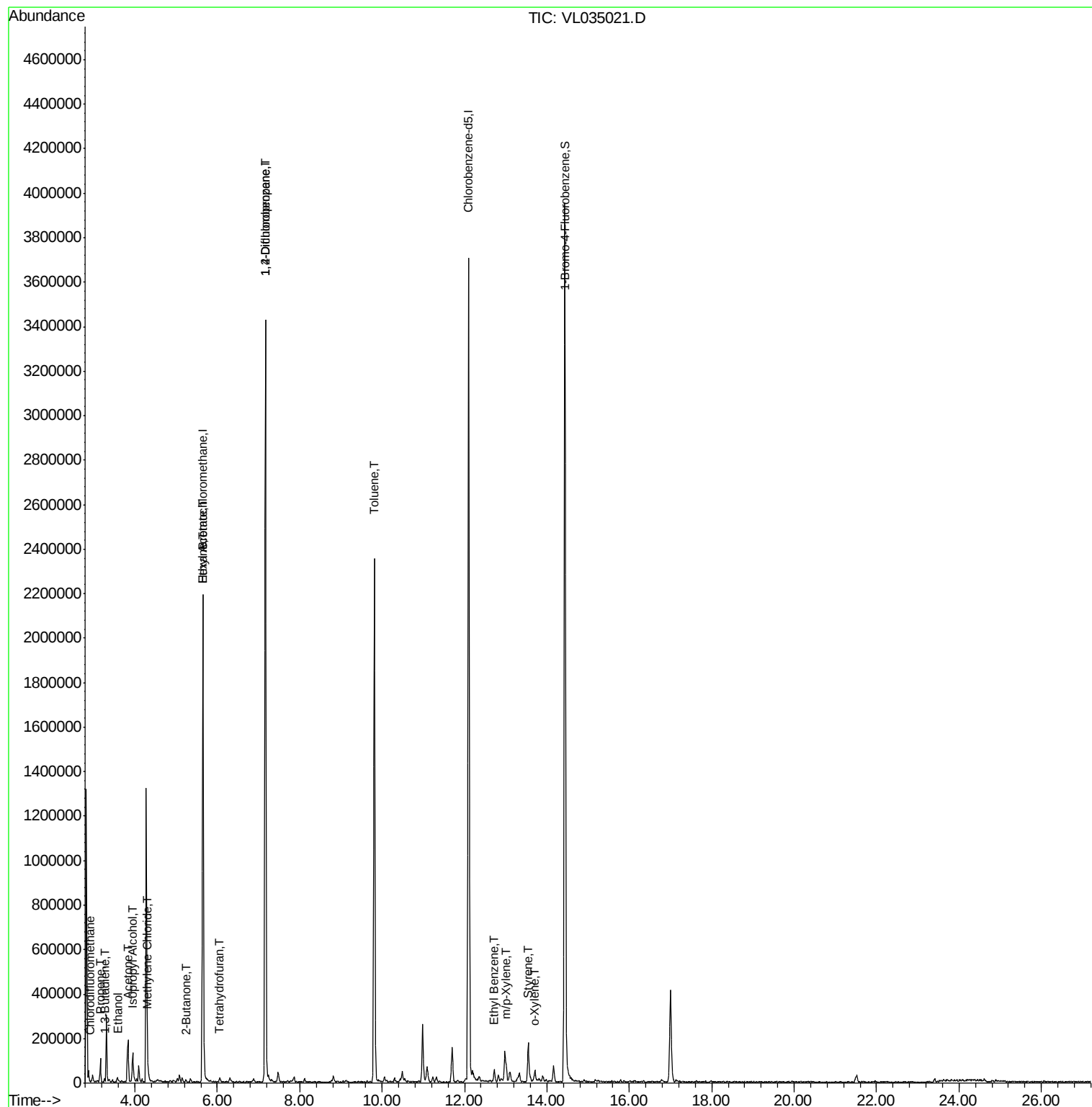
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.92	51	4311	0.038 ppbv #	61
9) Propene	3.16	41	25230	0.510 ppbv	97
13) Ethanol	3.57	45	20234	1.240 ppbv	98
15) Acetone	3.82	43	169099	1.281 ppbv	94
16) 1,3-Butadiene	3.26	39	2790	0.049 ppbv #	8
19) Isopropyl Alcohol	3.94	45	132227	1.502 ppbv #	93
20) Methylene Chloride	4.31	84	17362	0.397 ppbv #	81
25) Ethyl Acetate	5.66	43	61949	0.279 ppbv #	96
26) Hexane	5.66	57	20399	0.212 ppbv #	60
34) 2-Butanone	5.23	43	4752	0.033 ppbv #	59
39) 1,2-Dichloropropane	7.17	63	652537	8.504 ppbv #	26
41) Tetrahydrofuran	6.04	42	2823	0.037 ppbv #	1
53) Toluene	9.81	91	1764554	8.696 ppbv	98
58) Ethyl Benzene	12.73	91	14314	0.051 ppbv	96
59) m/p-Xylene	13.02	91	10742	0.044 ppbv #	8
60) o-Xylene	13.70	91	9646	0.040 ppbv #	1
61) Styrene	13.55	104	49505	0.322 ppbv #	43

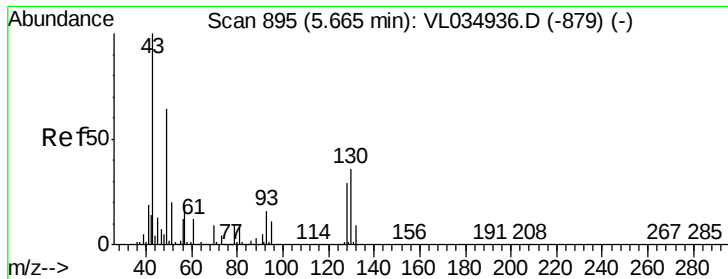
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

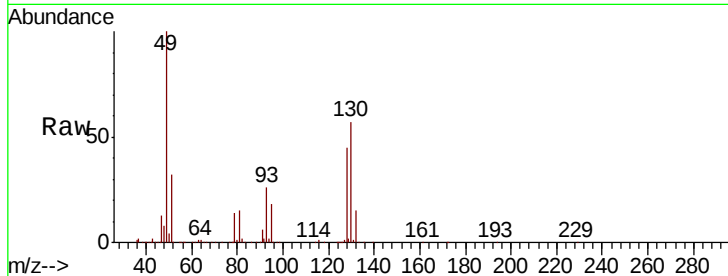
Tot Ion: 49 Resp: 998377

Ion Ratio Lower Upper

49 100

128 45.3 22.1 66.5

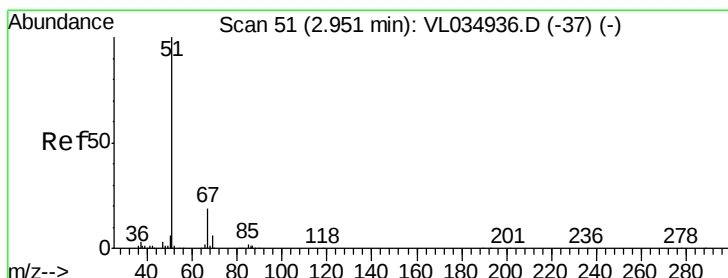
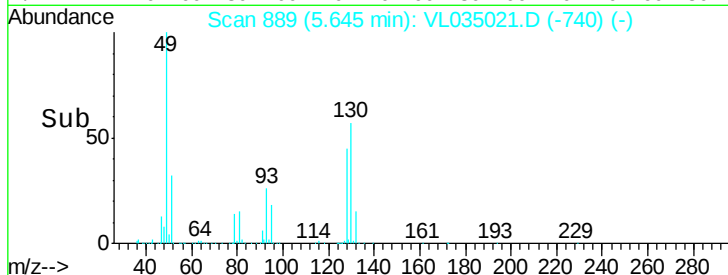
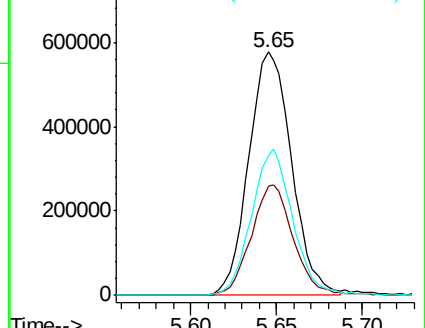
130 58.4 29.1 87.3



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: 0.038 ppbv

RT: 2.92 min Scan# 40

Delta R.T. -0.04 min

Lab File: VL035021.D

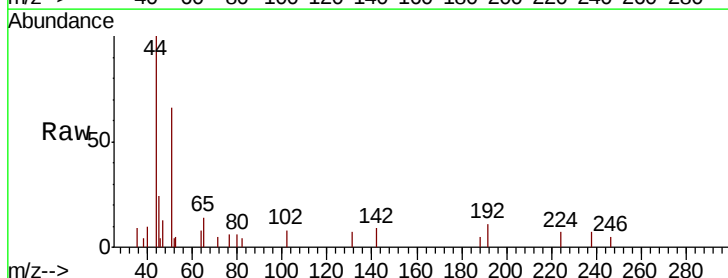
Acq: 14 May 2020 15:48

Tgt Ion: 51 Resp: 4311

Ion Ratio Lower Upper

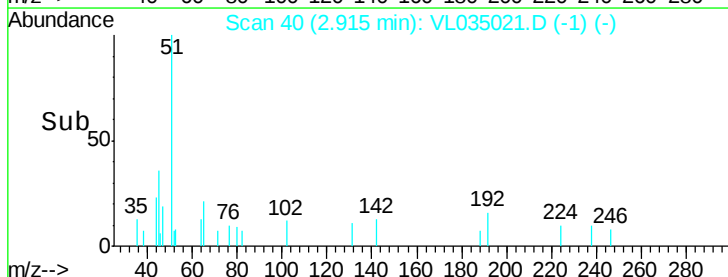
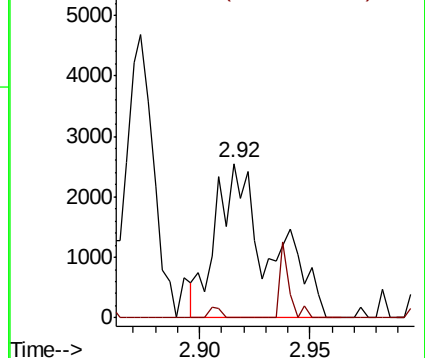
51 100

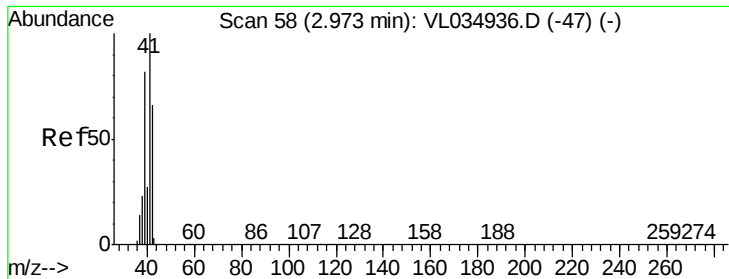
67 1.5 15.0 22.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.510 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.19 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Instrument :

MSVOA_L

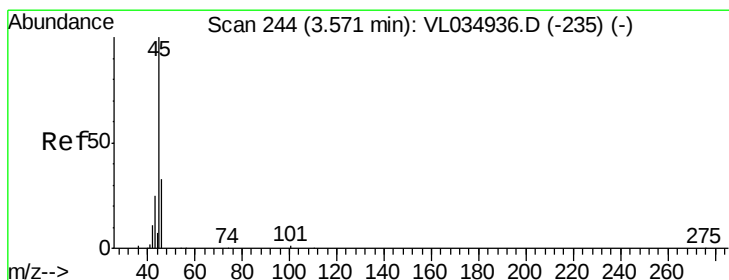
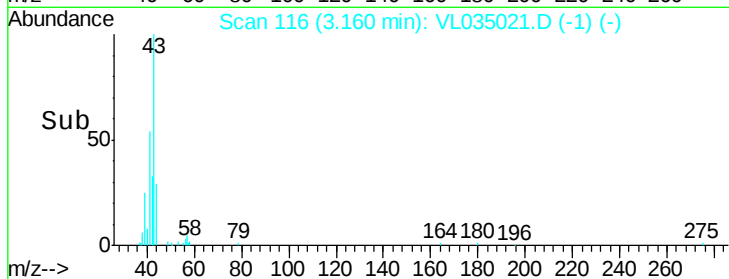
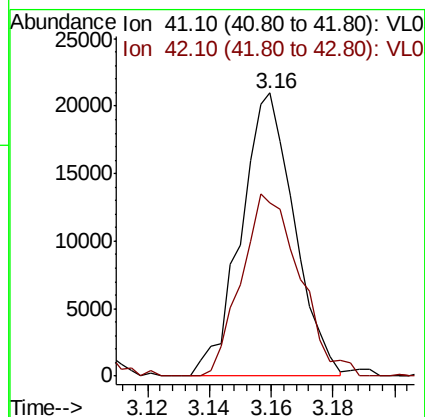
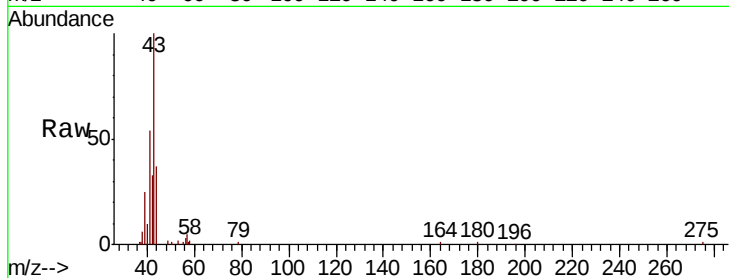
ClientSampleId :

Tot Ion: 41 Resp: 25230

Ion Ratio Lower Upper

41 100

42 70.3 54.5 81.7



#13

Ethanol

Concen: 1.240 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035021.D

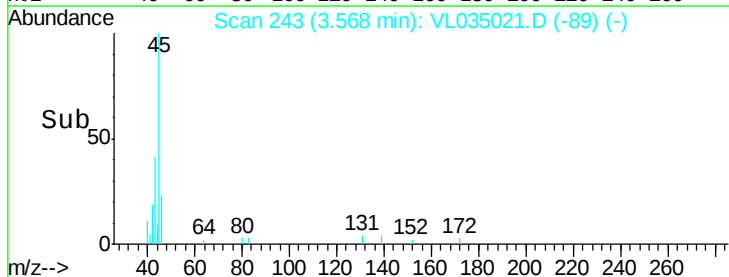
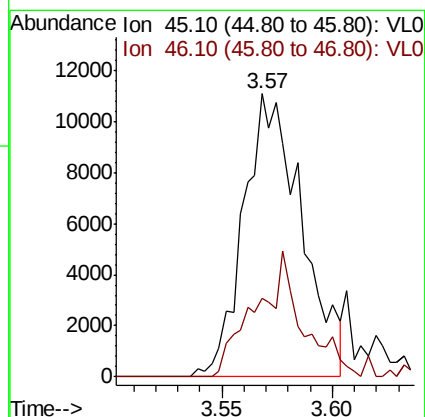
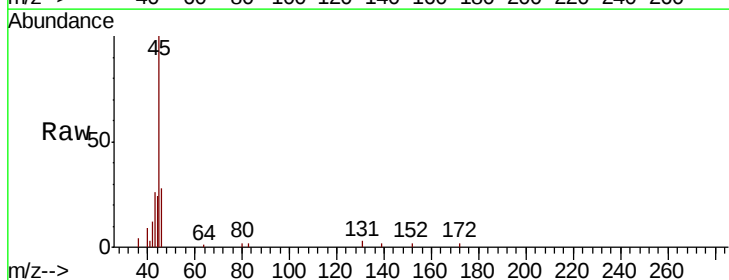
Acq: 14 May 2020 15:48

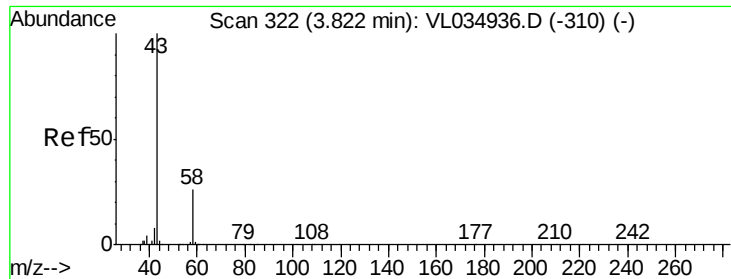
Tgt Ion: 45 Resp: 20234

Ion Ratio Lower Upper

45 100

46 36.7 14.3 57.3

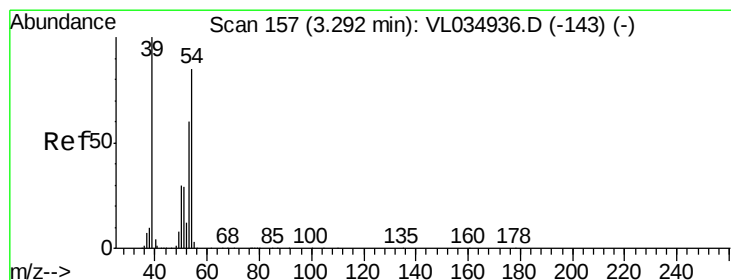
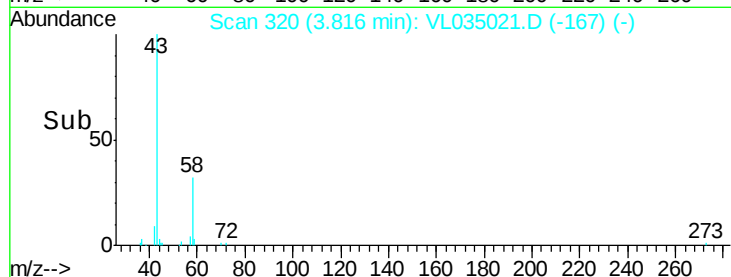
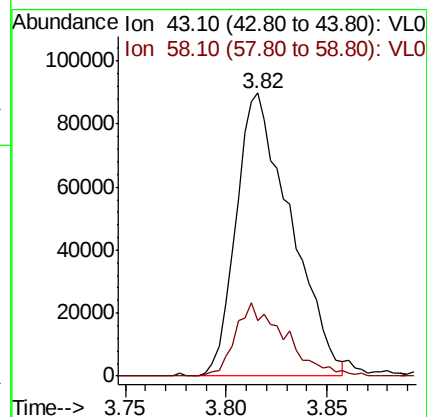
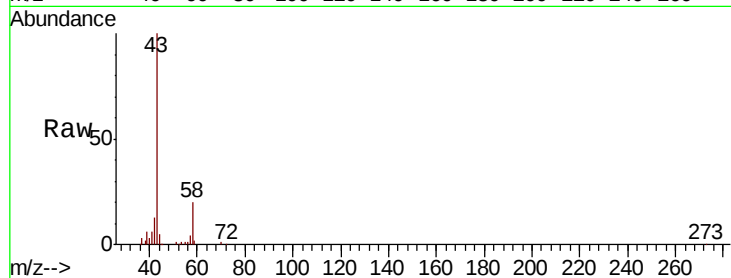




#15
Acetone
Concen: 1.281 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.01 min
Lab File: VL035021.D
Acq: 14 May 2020 15:48

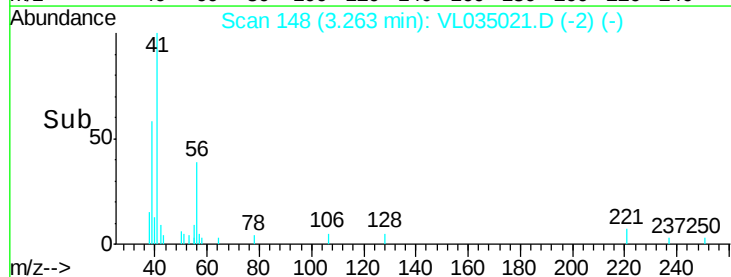
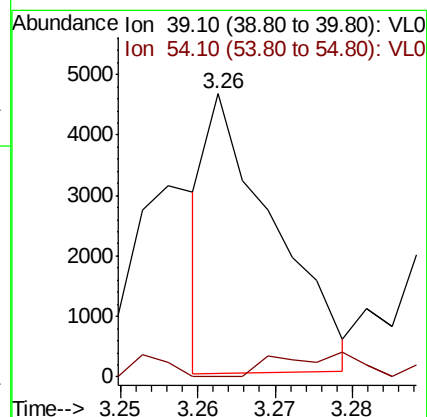
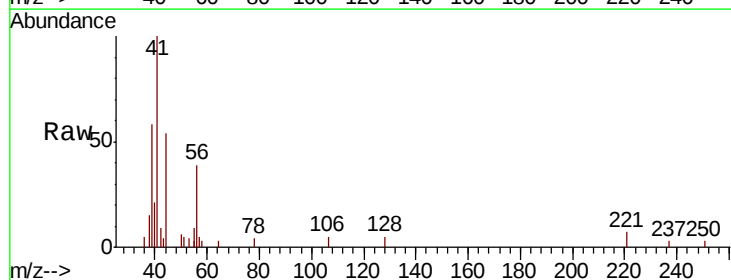
Instrument :
MSVOA_L
ClientSampleId :

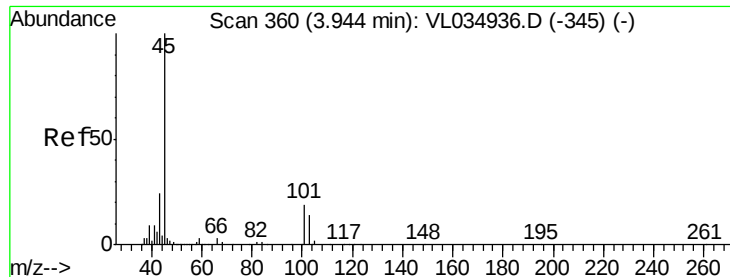
Tot Ion: 43 Resp: 169099
Ion Ratio Lower Upper
43 100
58 23.9 21.7 32.5



#16
1,3-Butadiene
Concen: 0.049 ppbv
RT: 3.26 min Scan# 148
Delta R.T. -0.03 min
Lab File: VL035021.D
Acq: 14 May 2020 15:48

Tgt Ion: 39 Resp: 2790
Ion Ratio Lower Upper
39 100
54 0.0 66.6 100.0#





#19

Isopropyl Alcohol

Concen: 1.502 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Instrument :

MSVOA_L

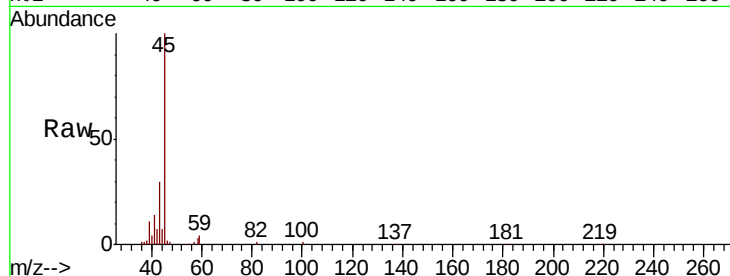
ClientSampleId :

Tot Ion: 45 Resp: 132227

Ion Ratio Lower Upper

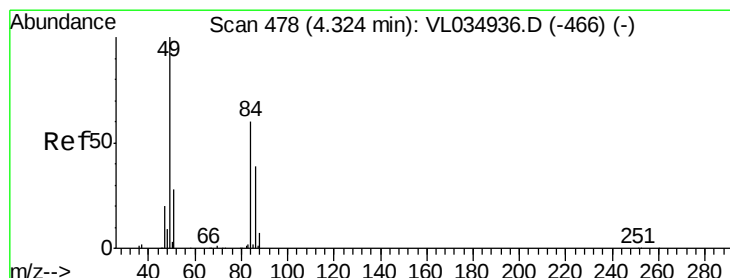
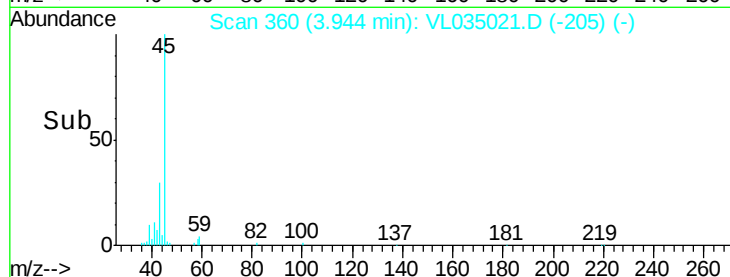
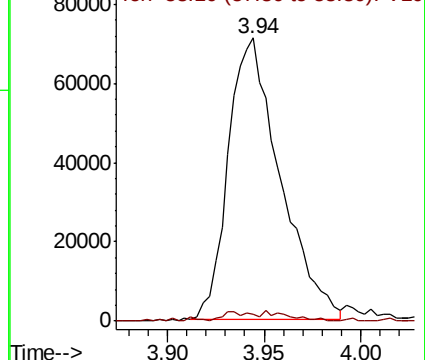
45 100

58 4.7 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.397 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.01 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Tgt Ion: 84 Resp: 17362

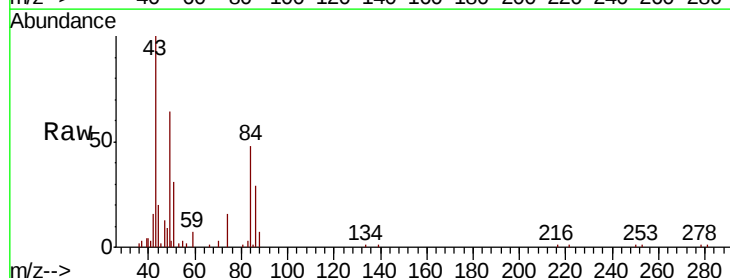
Ion Ratio Lower Upper

84 100

49 135.1 132.5 198.7

51 63.9 38.4 57.6#

86 59.5 51.2 76.8

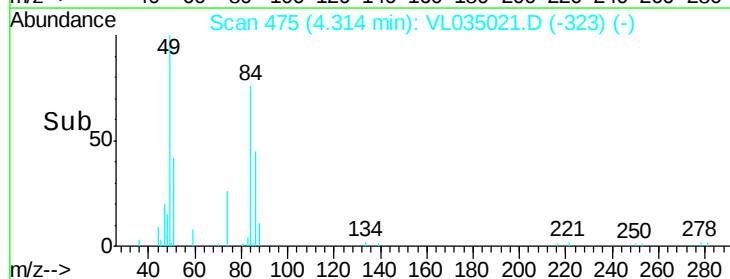
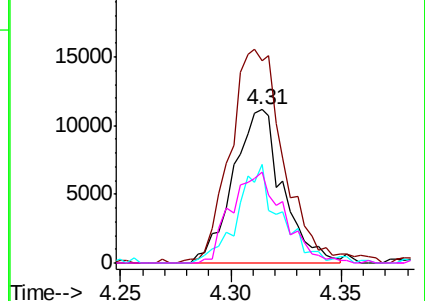


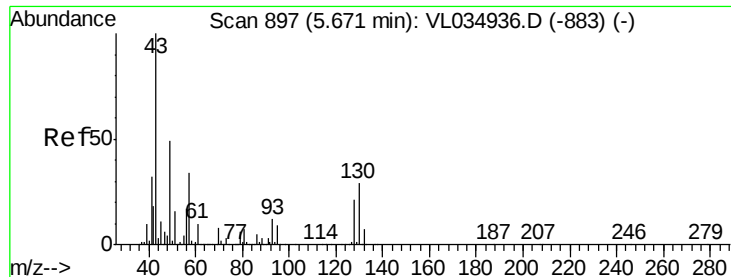
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

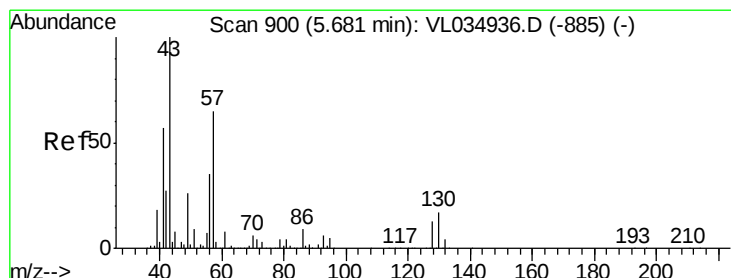
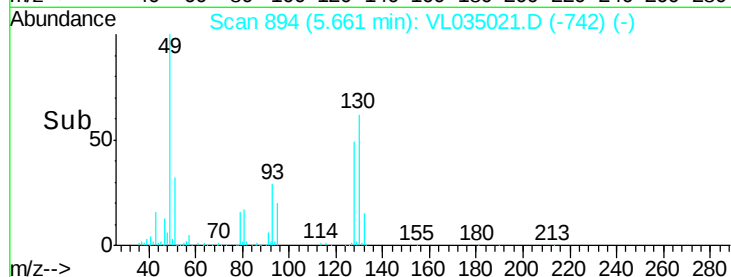
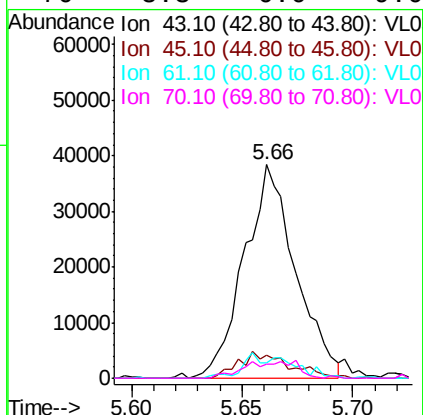
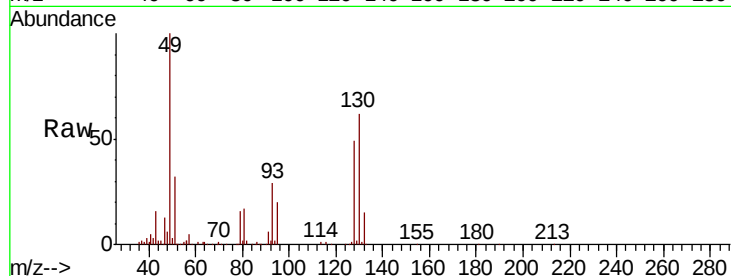




#25
Ethyl Acetate
Concen: 0.279 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.01 min
Lab File: VL035021.D
Acq: 14 May 2020 15:48

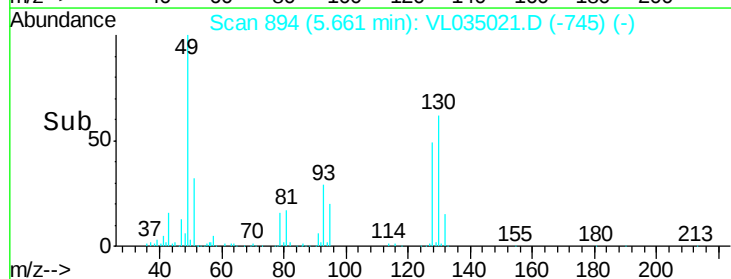
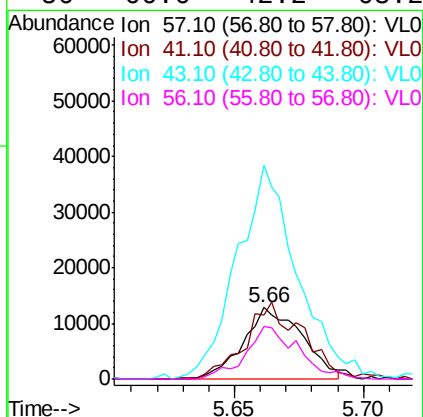
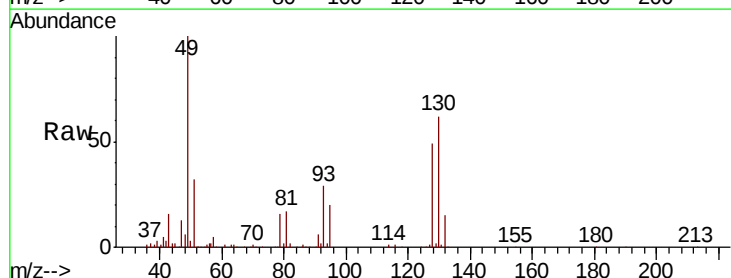
Instrument :
MSVOA_L
ClientSampled :

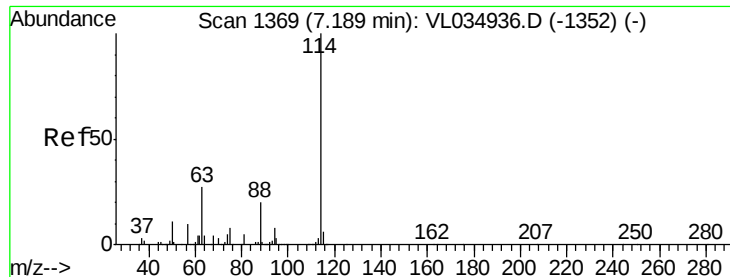
Tot Ion:	43	Resp:	61949
Ion	Ratio	Lower	Upper
43	100		
45	12.4	8.1	12.1#
61	11.1	7.8	11.8
70	8.3	6.0	9.0



#26
Hexane
Concen: 0.212 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035021.D
Acq: 14 May 2020 15:48

Tgt Ion:	57	Resp:	20399
Ion	Ratio	Lower	Upper
57	100		
41	108.1	72.7	109.1
43	314.9	182.1	273.1#
56	66.6	42.2	63.2#

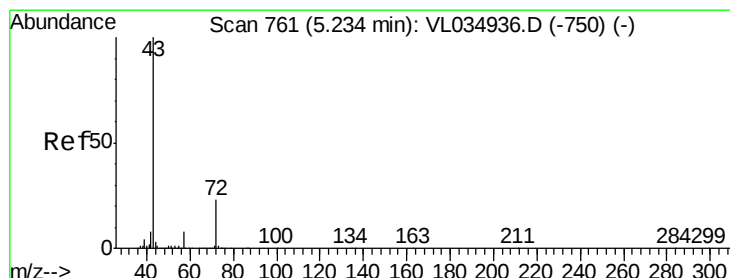
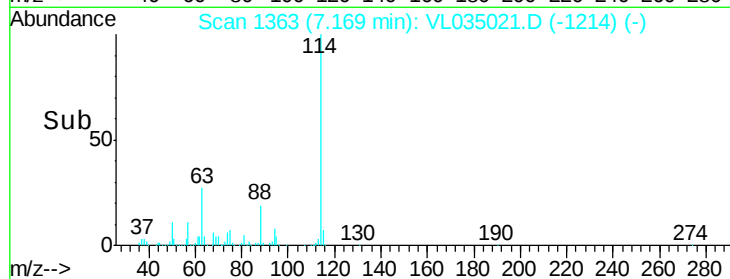
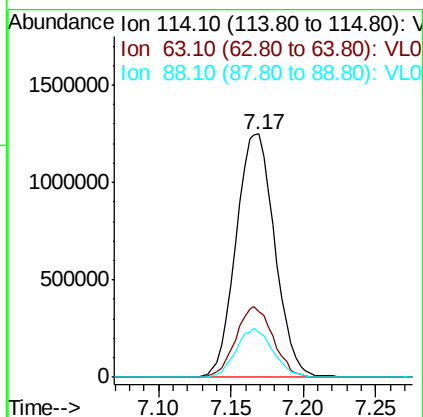
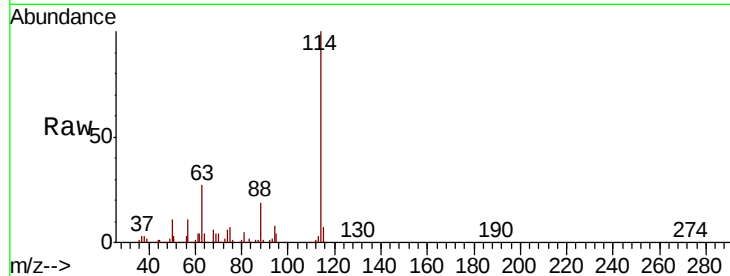




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL035021.D
 Acq: 14 May 2020 15:48

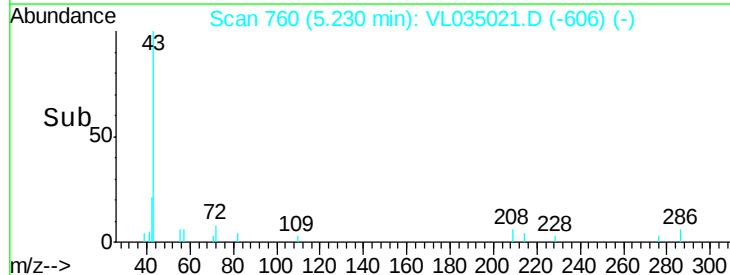
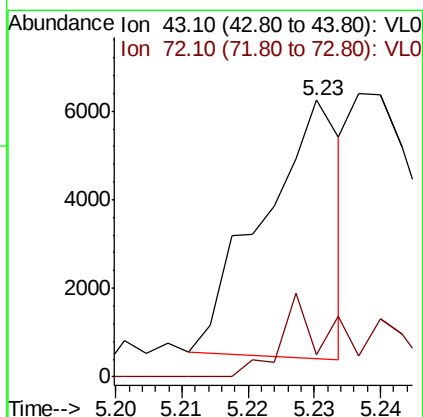
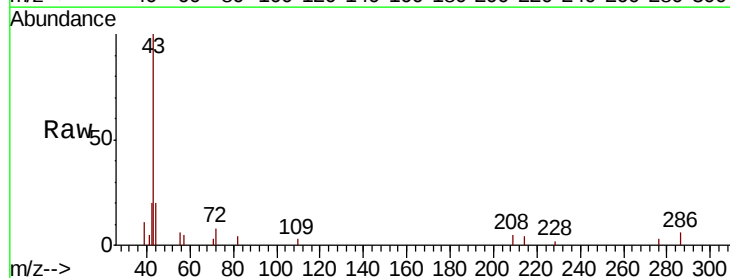
Instrument :
 MSVOA_L
 ClientSampleId :

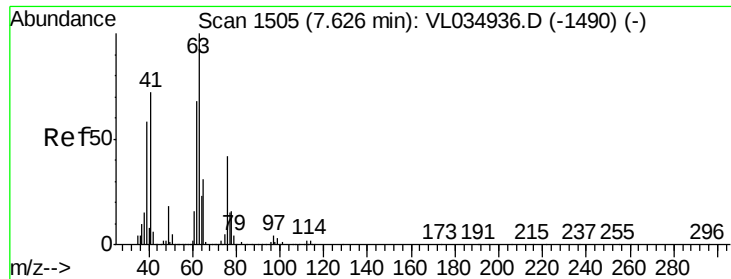
Tot Ion:114 Resp: 2321613
 Ion Ratio Lower Upper
 114 100
 63 28.2 22.2 33.4
 88 19.1 15.5 23.3



#34
 2-Butanone
 Concen: 0.033 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL035021.D
 Acq: 14 May 2020 15:48

Tgt Ion: 43 Resp: 4752
 Ion Ratio Lower Upper
 43 100
 72 42.4 18.0 27.0#

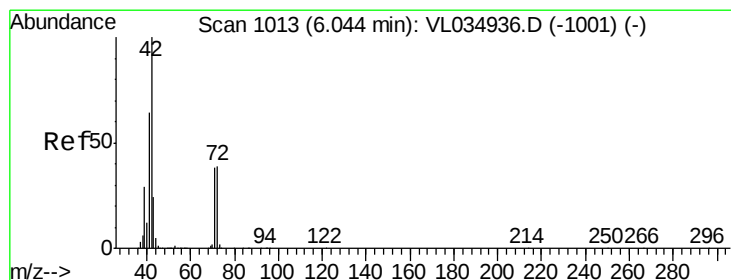
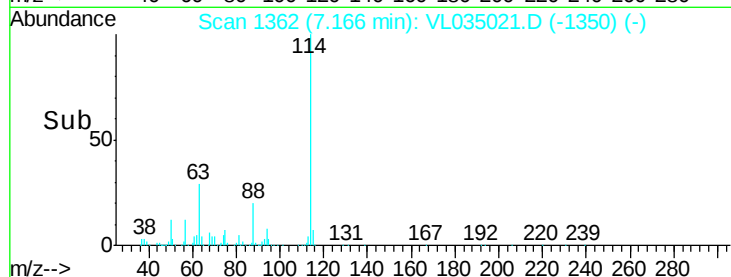
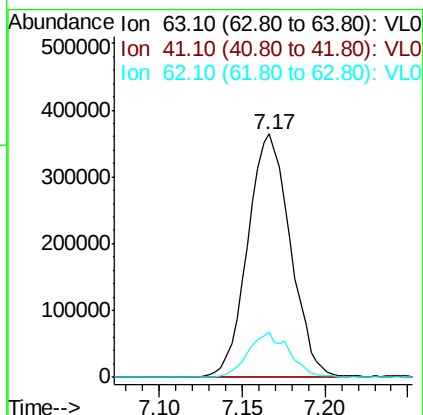
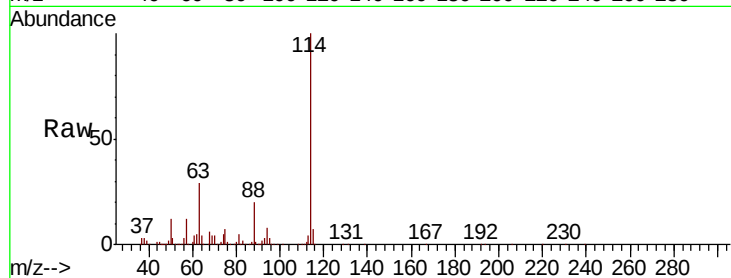




#39
 1,2-Dichloropropane
 Concen: 8.504 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.46 min
 Lab File: VL035021.D
 Acq: 14 May 2020 15:48

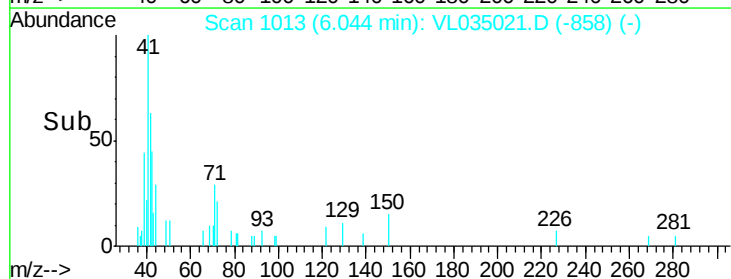
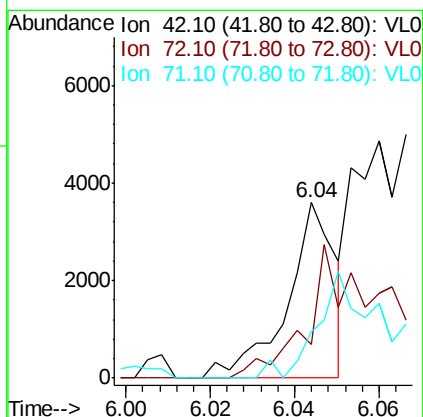
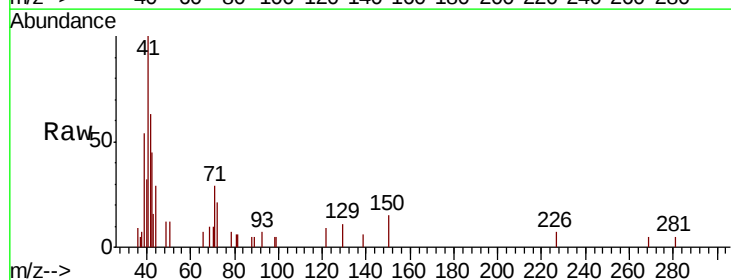
Instrument :
 MSVOA_L
 ClientSampled :

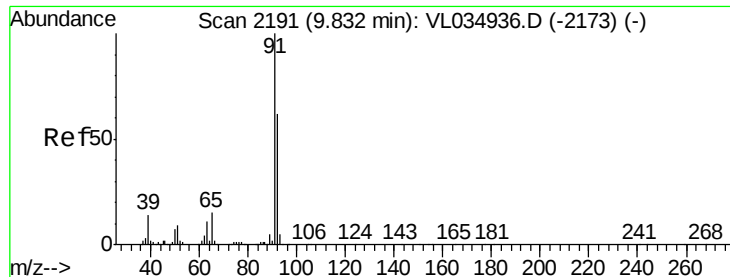
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.8	86.8#
62	18.7	54.2	81.2#



#41
 Tetrahydrofuran
 Concen: 0.037 ppbv
 RT: 6.04 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VL035021.D
 Acq: 14 May 2020 15:48

Tgt Ion	Ratio	Lower	Upper
42	100		
72	134.2	31.4	47.0#
71	114.3	29.8	44.8#





#53

Toluene

Concen: 8.696 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Instrument :

MSVOA_L

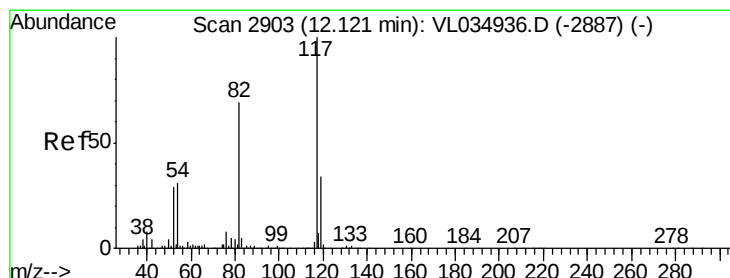
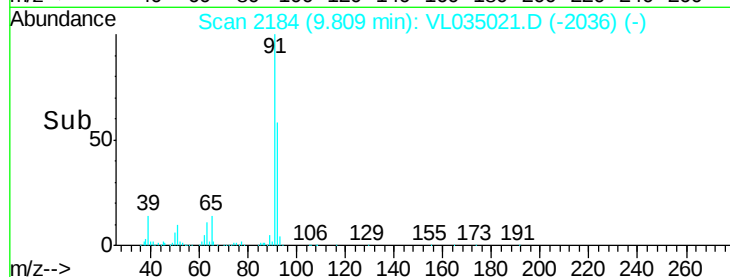
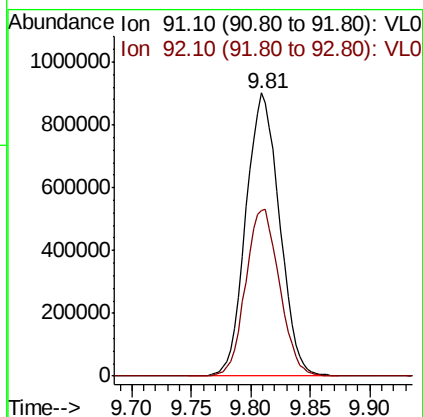
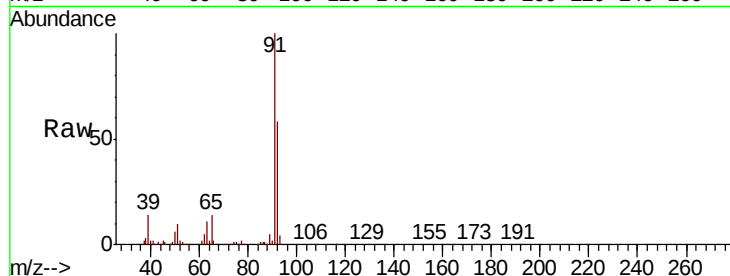
ClientSampled :

Tot Ion: 91 Resp: 1764554

Ion Ratio Lower Upper

91 100

92 59.5 48.6 73.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

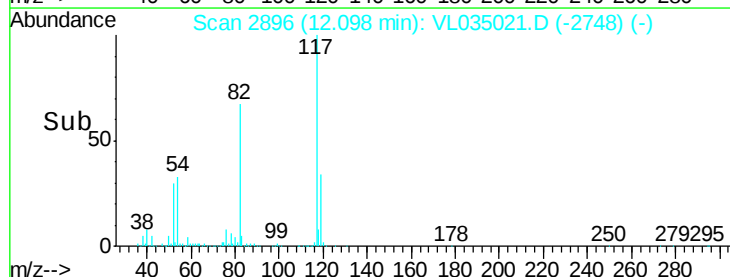
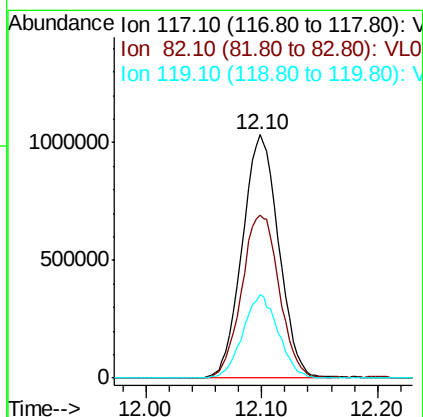
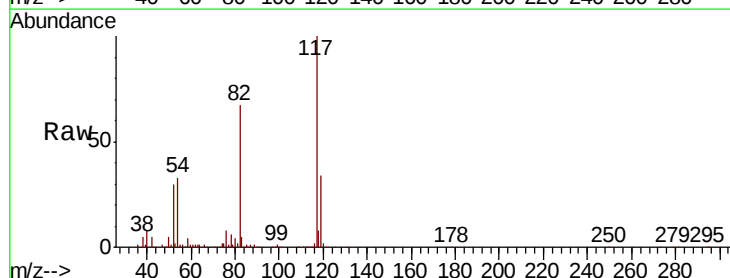
Tgt Ion: 117 Resp: 2260023

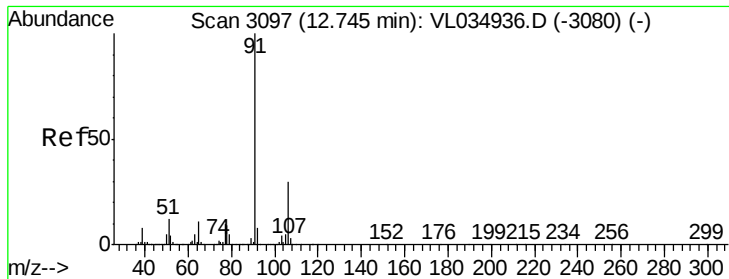
Ion Ratio Lower Upper

117 100

82 69.2 53.1 79.7

119 33.4 26.7 40.1





#58

Ethyl Benzene

Concen: 0.051 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Instrument :

MSVOA_L

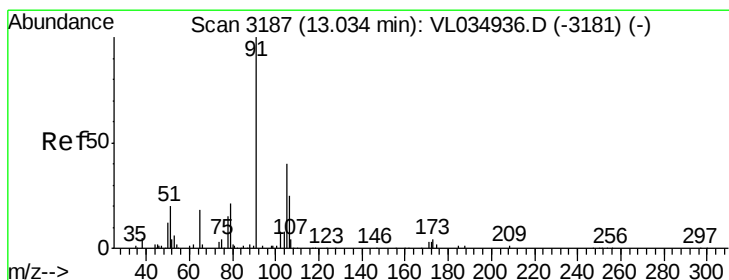
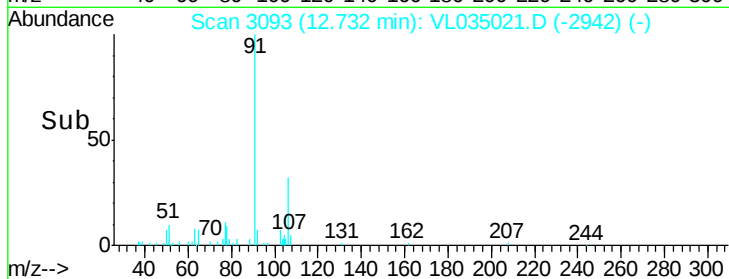
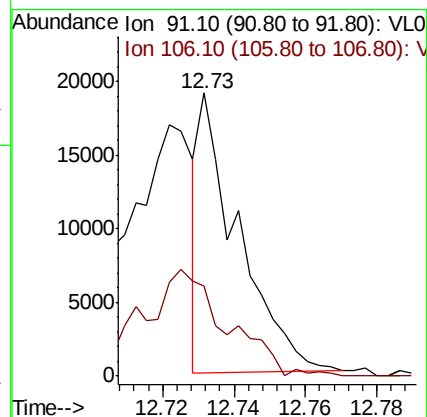
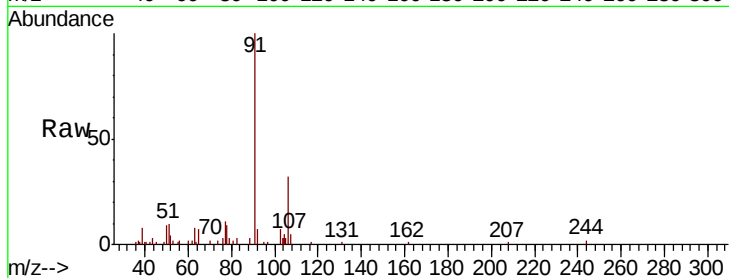
ClientSampleId :

Tot Ion: 91 Resp: 14314

Ion Ratio Lower Upper

91 100

106 32.3 24.2 36.4



#59

m/p-Xylene

Concen: 0.044 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.02 min

Lab File: VL035021.D

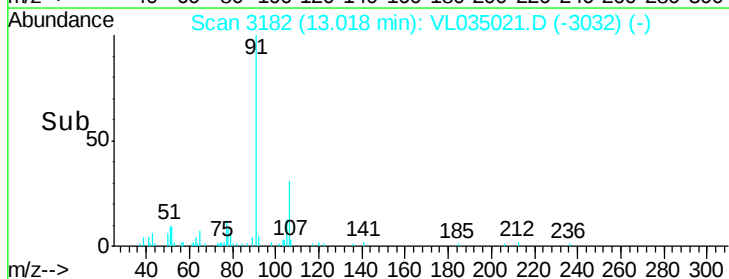
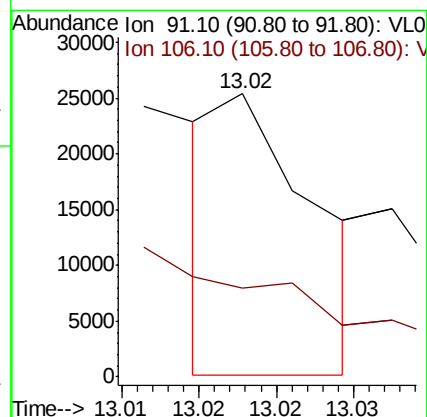
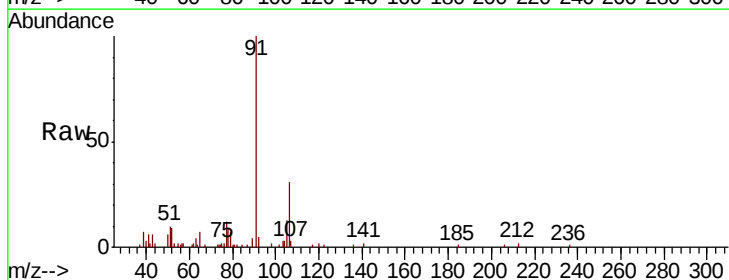
Acq: 14 May 2020 15:48

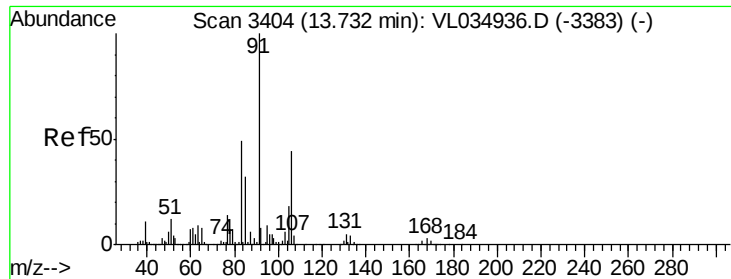
Tgt Ion: 91 Resp: 10742

Ion Ratio Lower Upper

91 100

106 0.0 66.0 99.0#

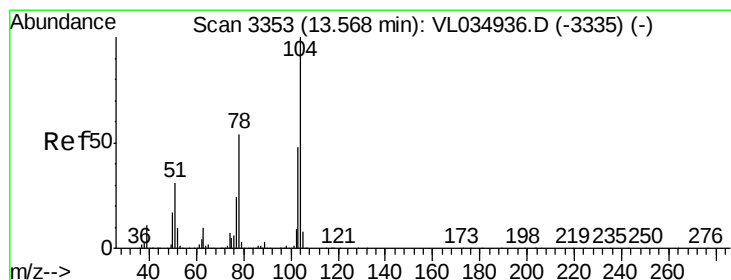
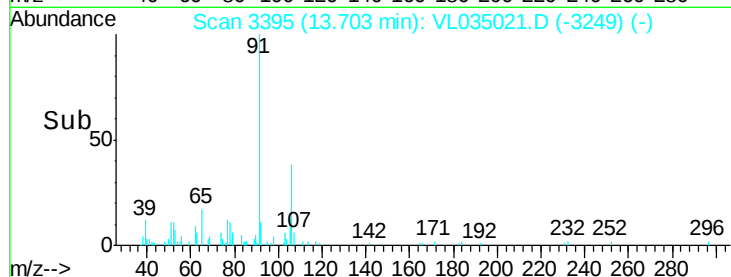
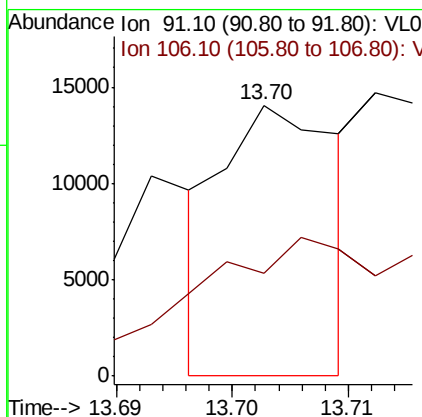
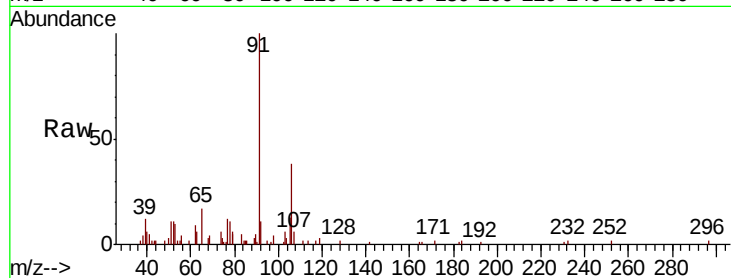




#60
o-Xylene
Concen: 0.040 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.03 min
Lab File: VL035021.D
Acq: 14 May 2020 15:48

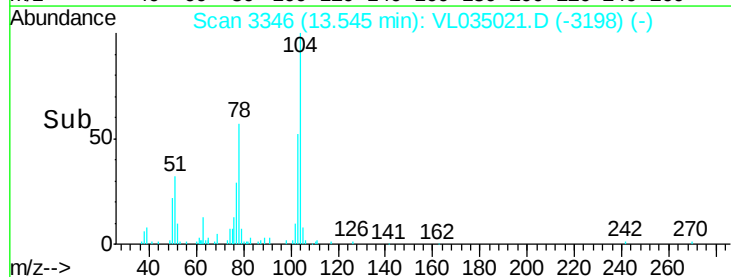
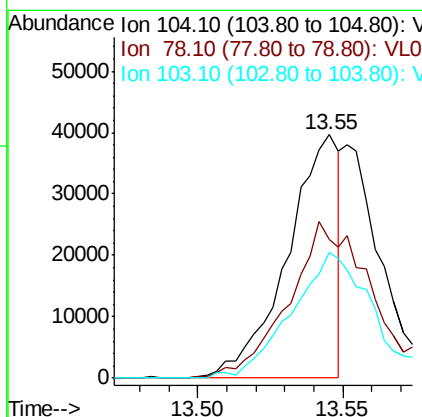
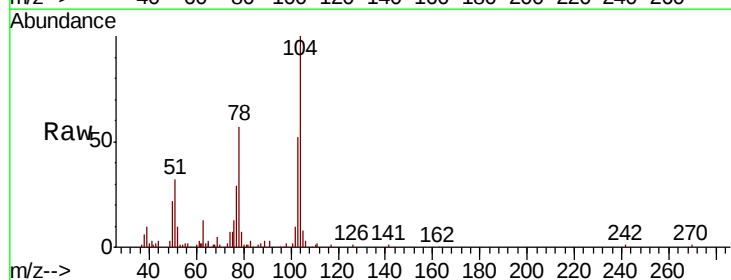
Instrument :
MSVOA_L
ClientSampleId :

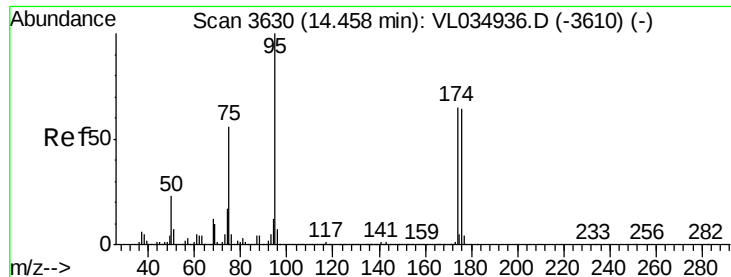
Tot Ion: 91 Resp: 9646
Ion Ratio Lower Upper
91 100
106 151.4 21.9 65.5#



#61
Styrene
Concen: 0.322 ppbv
RT: 13.55 min Scan# 3346
Delta R.T. -0.02 min
Lab File: VL035021.D
Acq: 14 May 2020 15:48

Tgt Ion: 104 Resp: 49505
Ion Ratio Lower Upper
104 100
78 102.3 43.7 65.5#
103 80.7 38.8 58.2#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.486 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. -0.03 min

Lab File: VL035021.D

Acq: 14 May 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

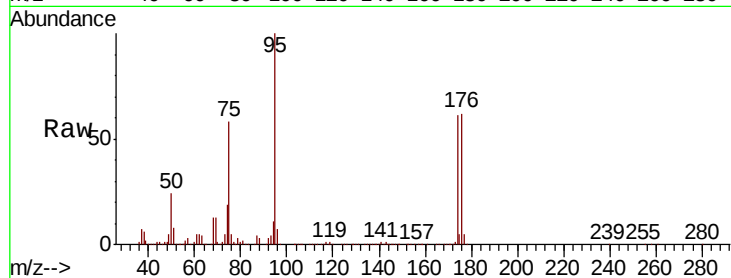
Tot Ion: 95 Resp: 1918259

Ion Ratio Lower Upper

95 100

174 65.2 51.5 77.3

175 4.9 3.8 5.8



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

