

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035818.D
 Acq On : 4 Nov 2020 00:34
 Operator : SY/AP
 Sample : L4604-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 04 05:17:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1200404	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	5184558	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4786483	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3448700	10.14	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

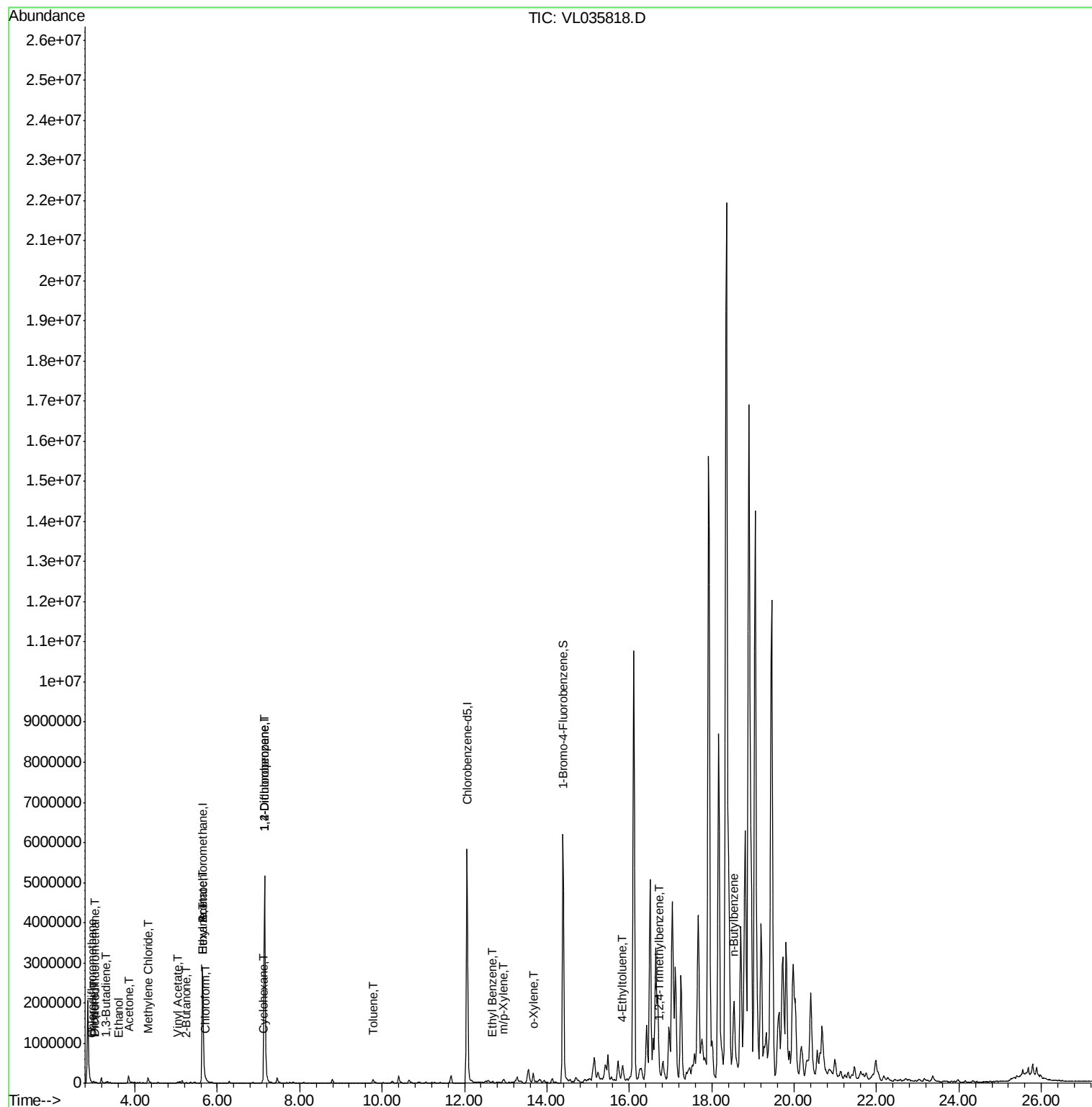
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	10267	0.045 ppbv	94
3) Chlorodifluoromethane	2.96	51	4725	0.033 ppbv	96
9) Propene	3.00	41	17202	0.327 ppbv	87
13) Ethanol	3.59	45	2297	0.201 ppbv #	35
15) Acetone	3.84	43	138089	1.076 ppbv	100
16) 1,3-Butadiene	3.29	39	7490	0.136 ppbv #	22
20) Methylene Chloride	4.32	84	70776	0.783 ppbv	95
23) Vinyl Acetate	5.04	43	6082	0.034 ppbv #	1
25) Ethyl Acetate	5.66	43	28878	0.114 ppbv #	73
26) Hexane	5.66	57	50623	0.363 ppbv #	47
29) Chloroform	5.73	83	26433	0.096 ppbv	92
30) Cyclohexane	7.10	84	15891	0.105 ppbv #	13
34) 2-Butanone	5.24	43	5703	0.034 ppbv #	42
39) 1,2-Dichloropropane	7.15	63	948178	7.307 ppbv #	30
53) Toluene	9.78	91	84788	0.182 ppbv	100
58) Ethyl Benzene	12.68	91	43448	0.075 ppbv	97
59) m/p-Xylene	12.94	91	107076	0.217 ppbv	97
60) o-Xylene	13.67	91	30972	0.065 ppbv #	54
70) n-Butylbenzene	18.54	91	62421	0.085 ppbv	97
72) 4-Ethyltoluene	15.82	105	24596	0.042 ppbv #	90
74) 1,2,4-Trimethylbenzene	16.74	105	49643	0.087 ppbv #	71

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

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Quant Time: Nov 04 05:17:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Instrument :

MSVOA_L

ClientSampleId :

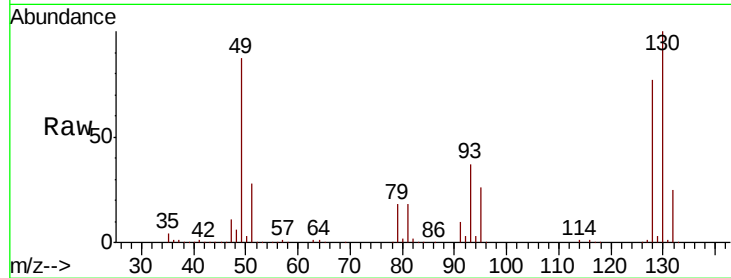
Tot Ion: 49 Resp: 1200404

Ion Ratio Lower Upper

49 100

128 90.4 41.5 124.6

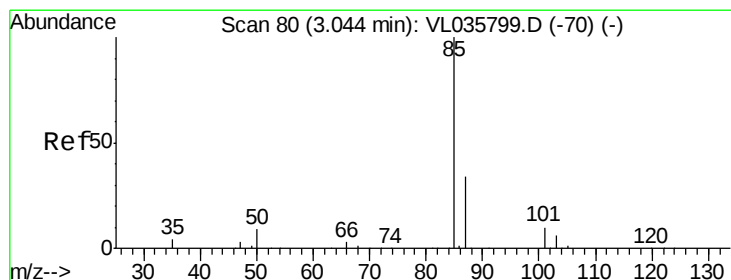
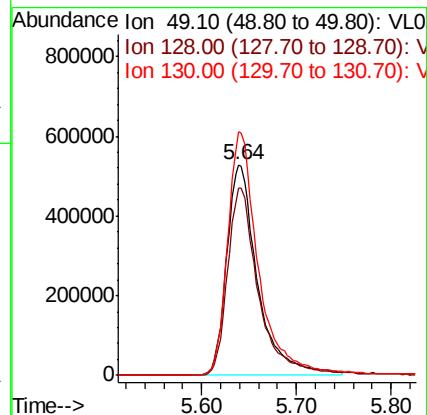
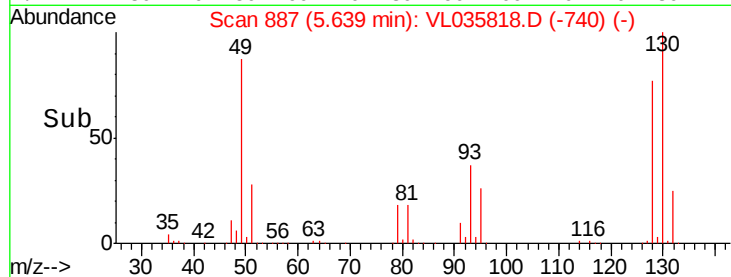
130 118.0 53.7 161.1



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: 0.045 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035818.D

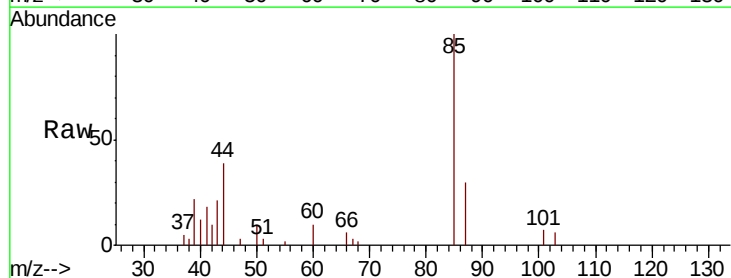
Acq: 4 Nov 2020 00:34

Tgt Ion: 85 Resp: 10267

Ion Ratio Lower Upper

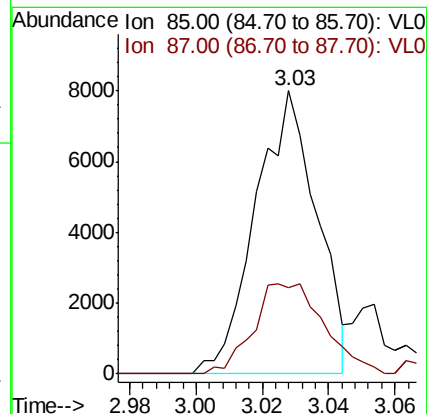
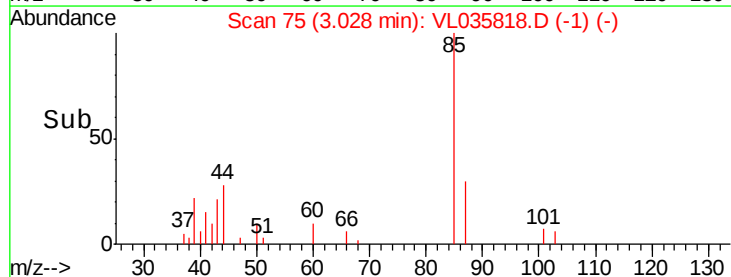
85 100

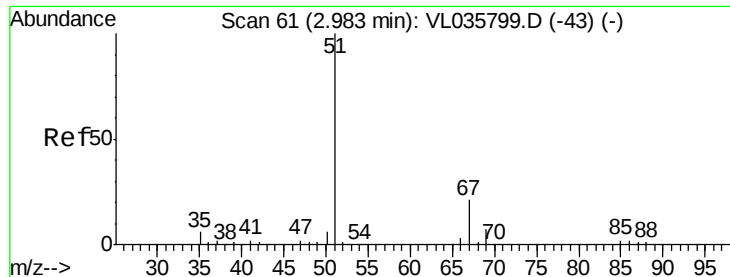
87 30.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Instrument :

MSVOA_L

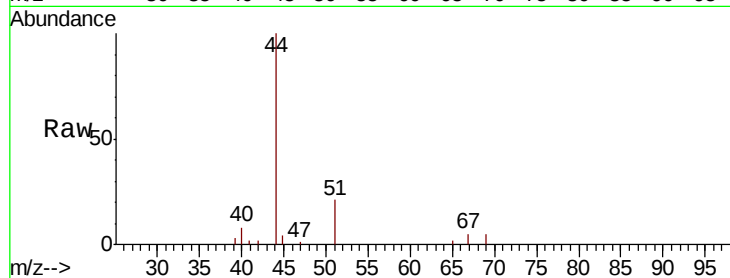
ClientSampleId :

Tot Ion: 51 Resp: 4725

Ion Ratio Lower Upper

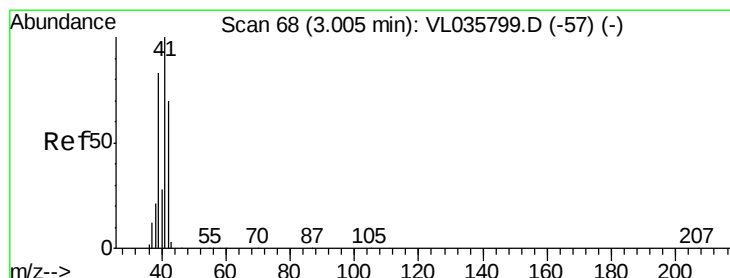
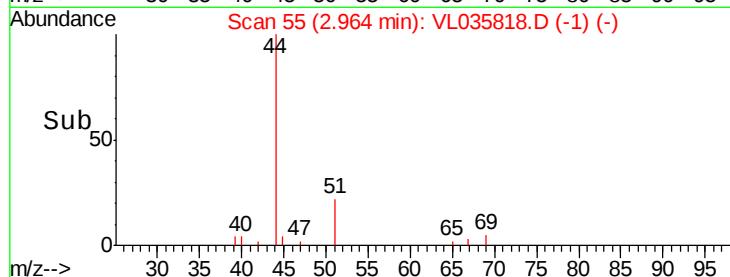
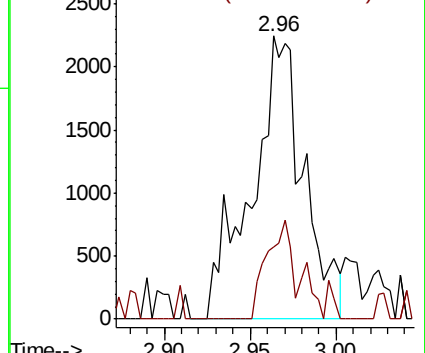
51 100

67 22.9 17.0 25.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.327 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035818.D

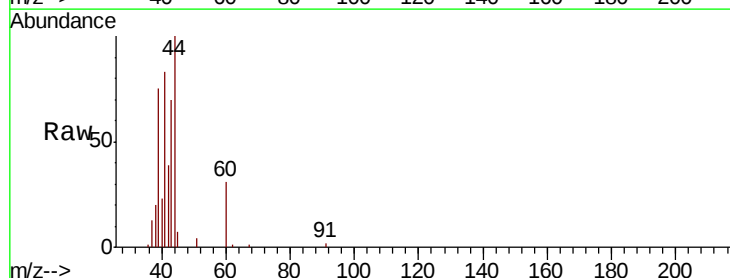
Acq: 4 Nov 2020 00:34

Tgt Ion: 41 Resp: 17202

Ion Ratio Lower Upper

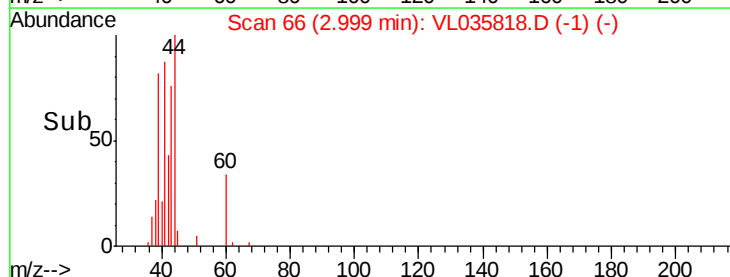
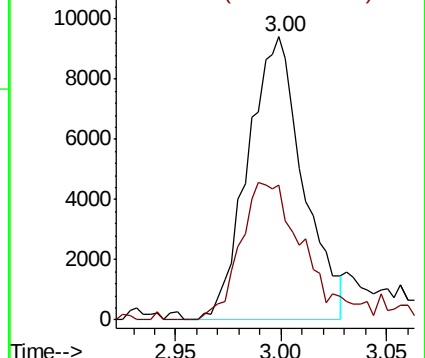
41 100

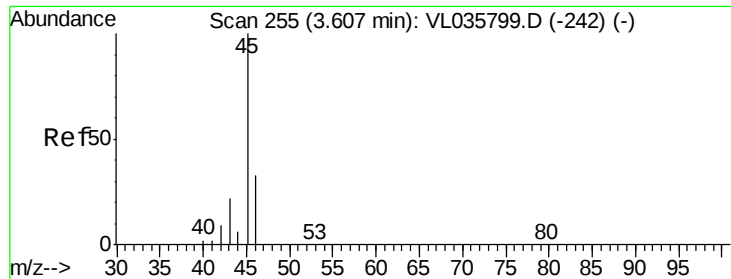
42 59.5 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.201 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Instrument :

MSVOA_L

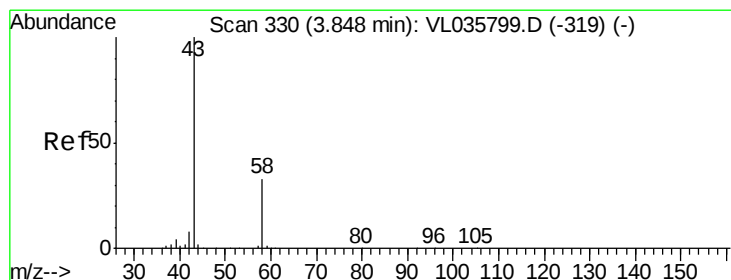
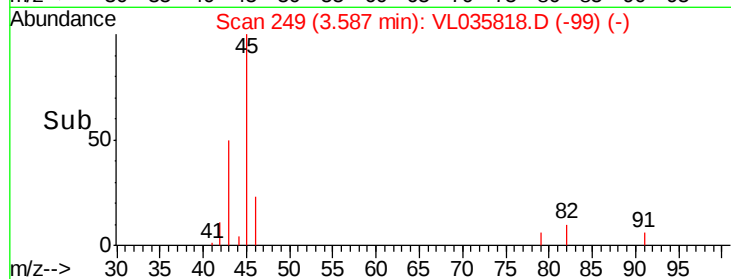
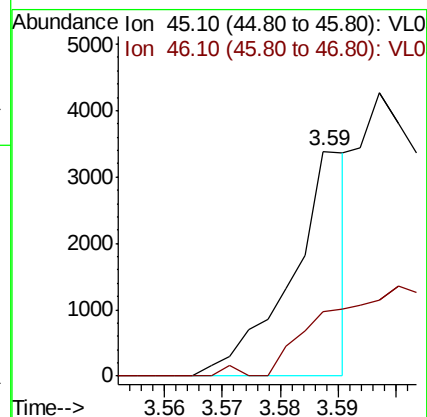
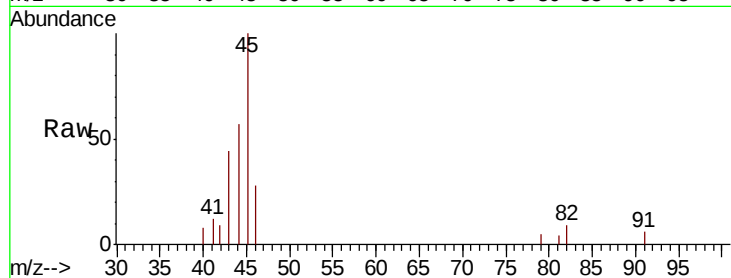
ClientSampleId :

Tot Ion: 45 Resp: 2297

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#



#15

Acetone

Concen: 1.076 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL035818.D

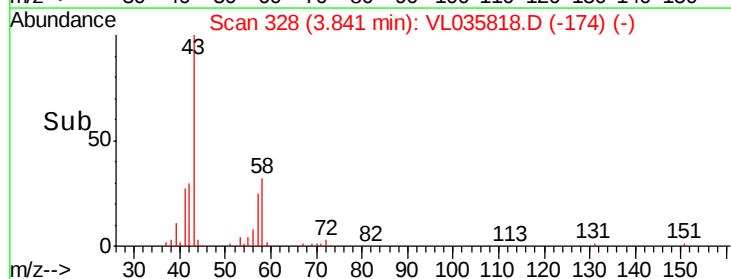
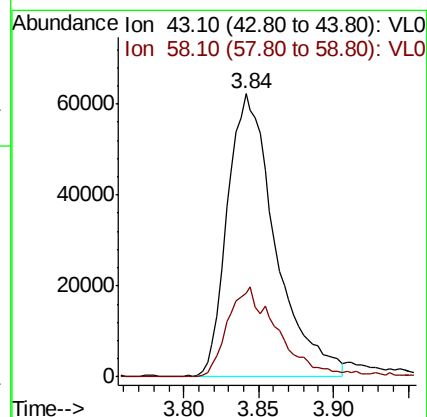
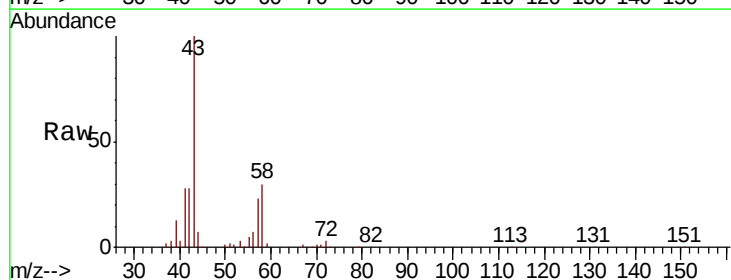
Acq: 4 Nov 2020 00:34

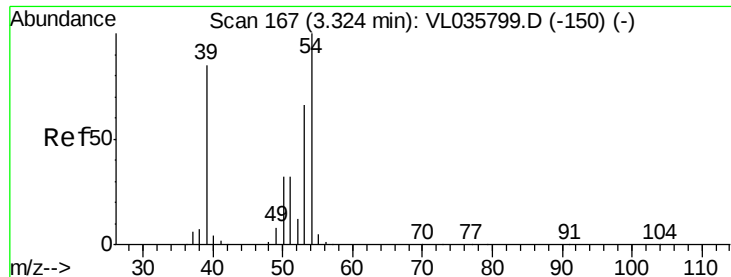
Tgt Ion: 43 Resp: 138089

Ion Ratio Lower Upper

43 100

58 34.7 27.5 41.3

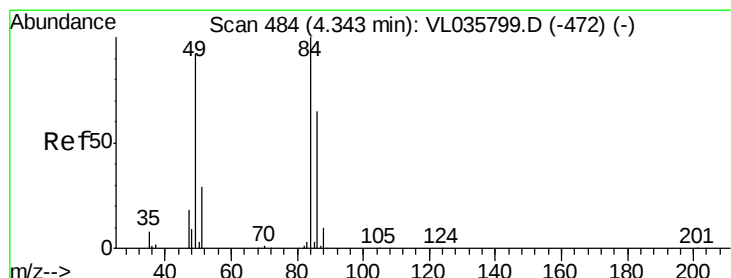
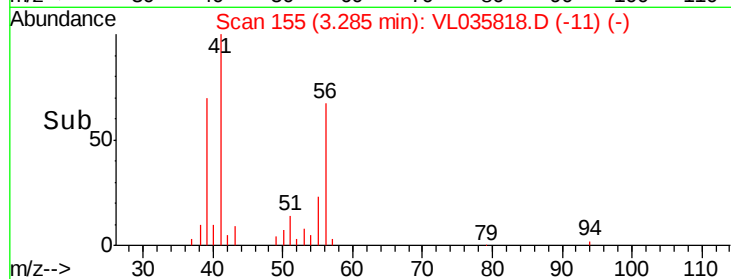
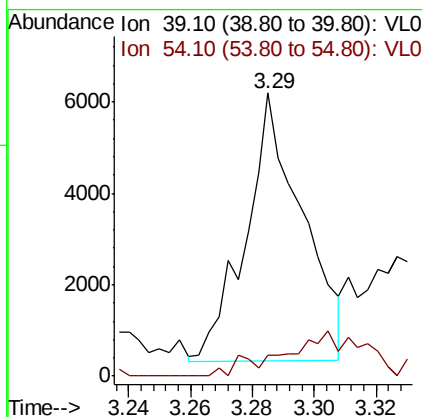
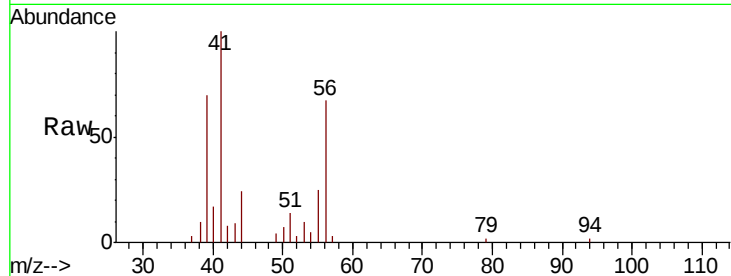




#16
 1,3-Butadiene
 Concen: 0.136 ppbv
 RT: 3.29 min Scan# 155
 Delta R.T. -0.04 min
 Lab File: VL035818.D
 Acq: 4 Nov 2020 00:34

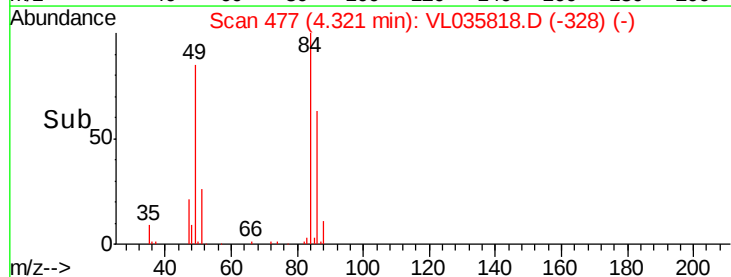
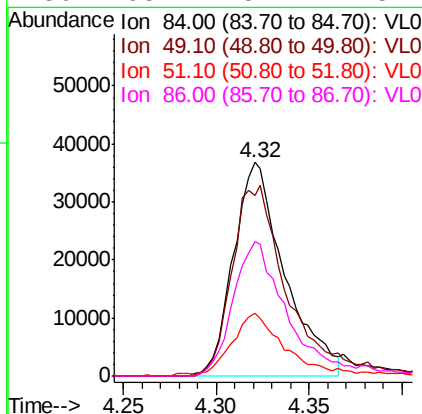
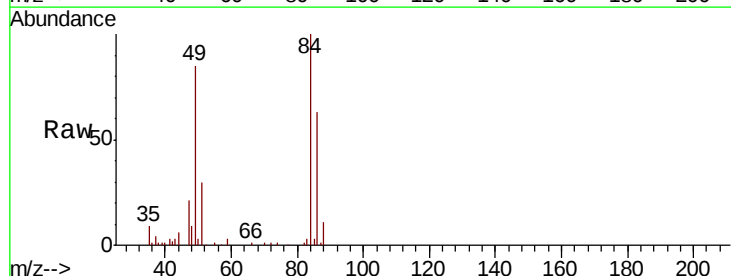
Instrument :
 MSVOA_L
 ClientSampled :

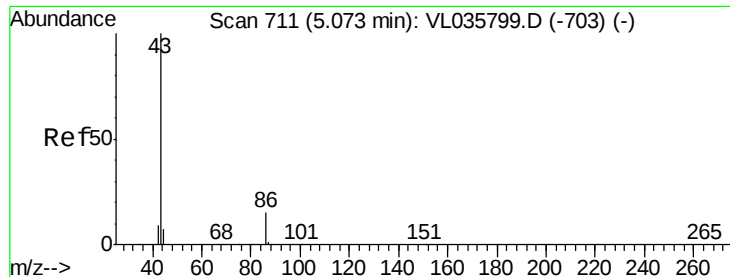
Tot Ion: 39 Resp: 7490
 Ion Ratio Lower Upper
 39 100
 54 27.4 87.1 130.7#



#20
 Methylene Chloride
 Concen: 0.783 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. -0.02 min
 Lab File: VL035818.D
 Acq: 4 Nov 2020 00:34

Tgt Ion: 84 Resp: 70776
 Ion Ratio Lower Upper
 84 100
 49 84.6 73.8 110.8
 51 28.7 23.0 34.4
 86 63.2 52.1 78.1





#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.04 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 6082

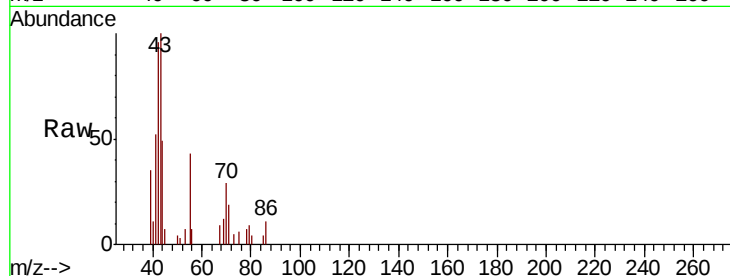
Ion Ratio Lower Upper

43 100

86 0.0 9.8 14.6#

42 133.6 8.1 12.1#

44 31.8 4.2 6.4#

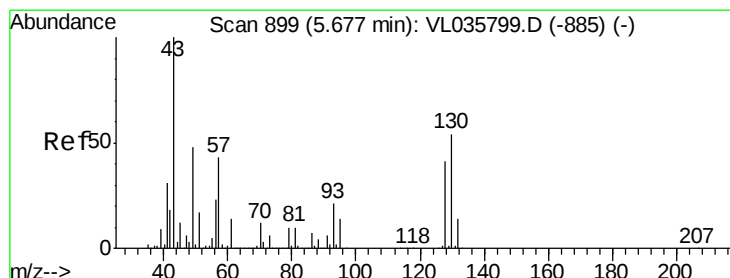
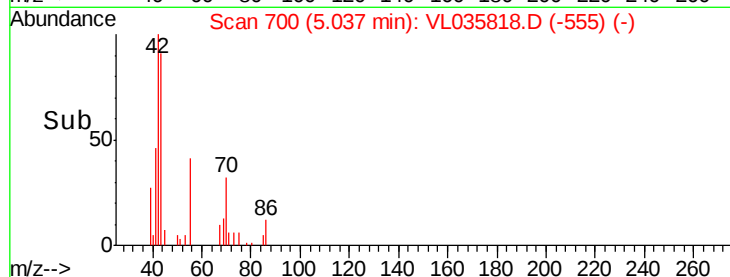
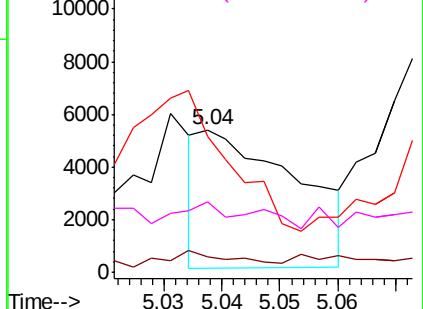


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.114 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Tgt Ion: 43 Resp: 28878

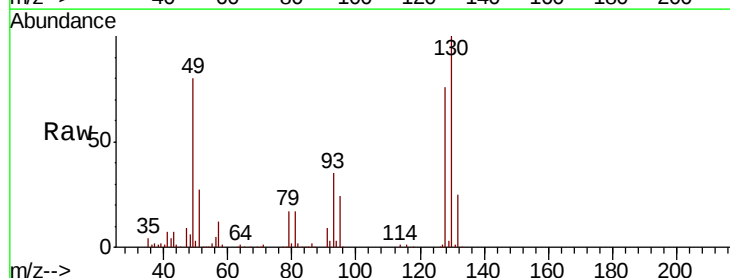
Ion Ratio Lower Upper

43 100

45 1.4 8.5 12.7#

61 0.3 10.7 16.1#

70 2.7 8.6 12.8#

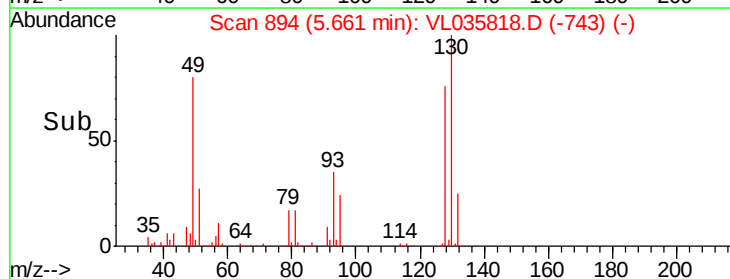
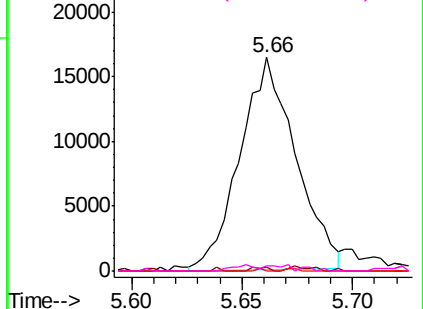


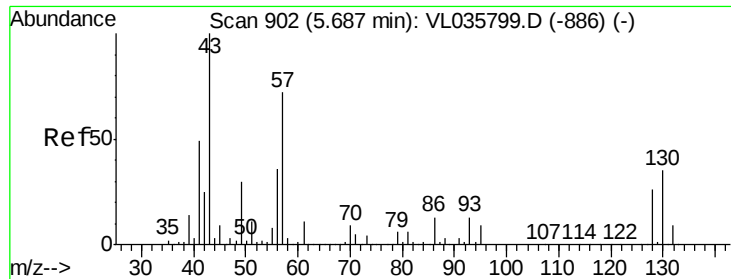
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

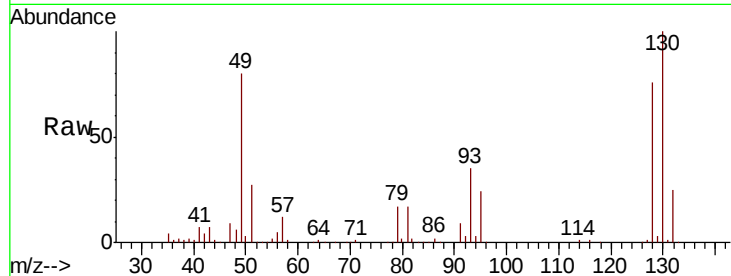




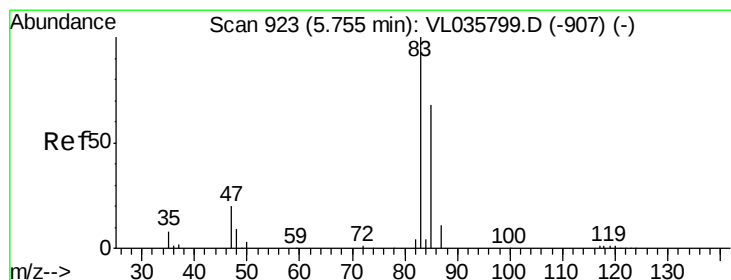
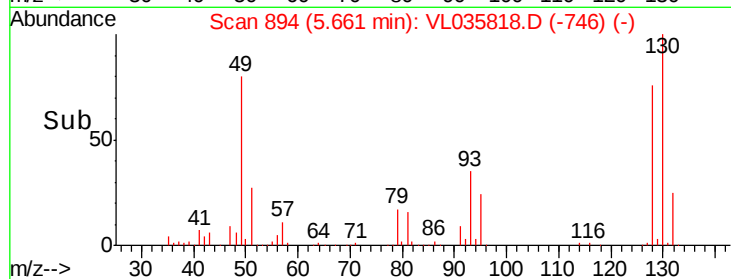
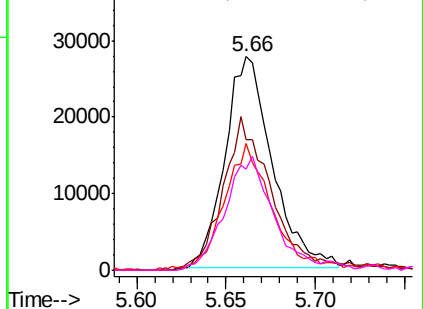
#26
Hexane
Concen: 0.363 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 50623
Ion Ratio Lower Upper
57 100
41 76.9 58.9 88.3
43 64.3 150.2 225.2#
56 57.6 42.4 63.6

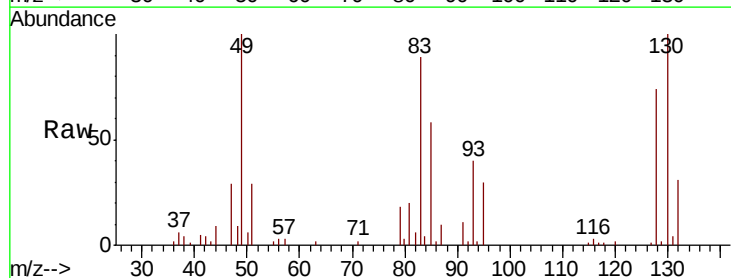


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

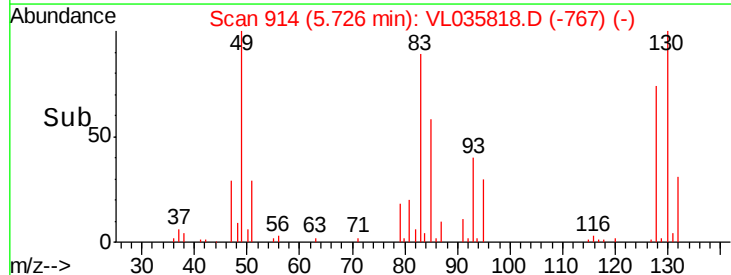
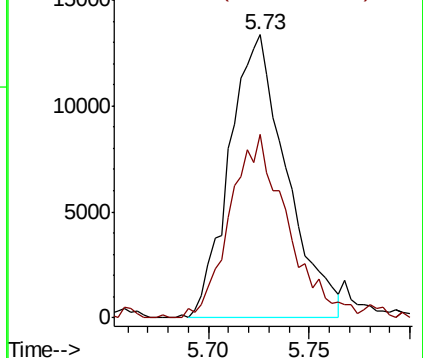


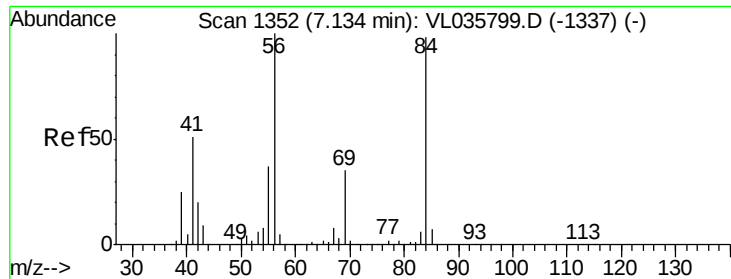
#29
Chloroform
Concen: 0.096 ppbv
RT: 5.73 min Scan# 914
Delta R.T. -0.03 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Tgt Ion: 83 Resp: 26433
Ion Ratio Lower Upper
83 100
85 61.6 54.6 81.8



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

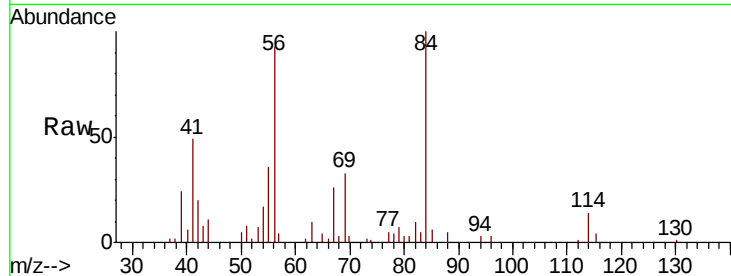




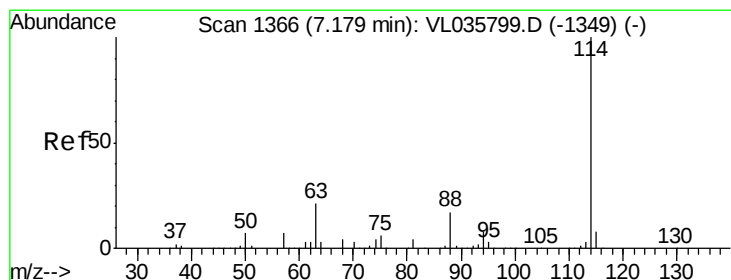
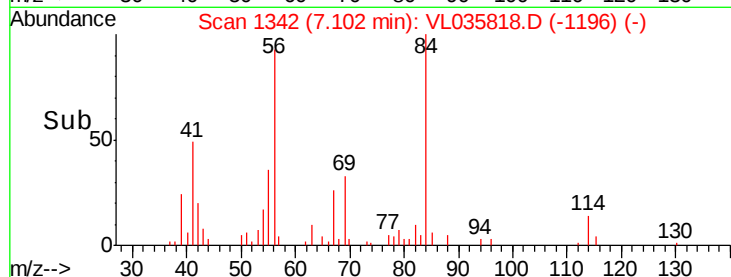
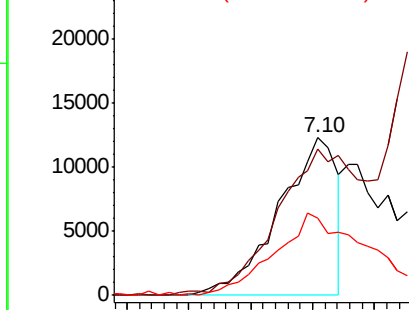
#30
Cyclohexane
Concen: 0.105 ppbv
RT: 7.10 min Scan# 1342
Delta R.T. -0.03 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 15891
Ion Ratio Lower Upper
84 100
56 0.0 86.4 129.6#
41 91.4 42.1 63.1#

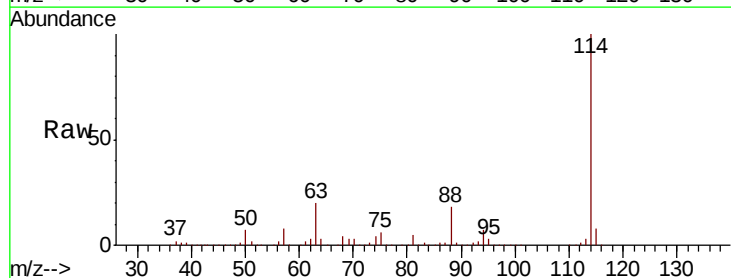


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

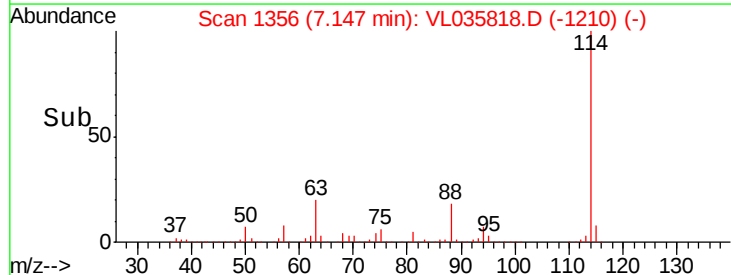
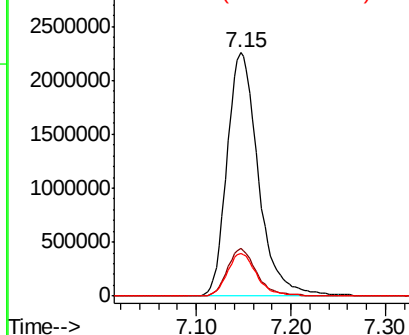


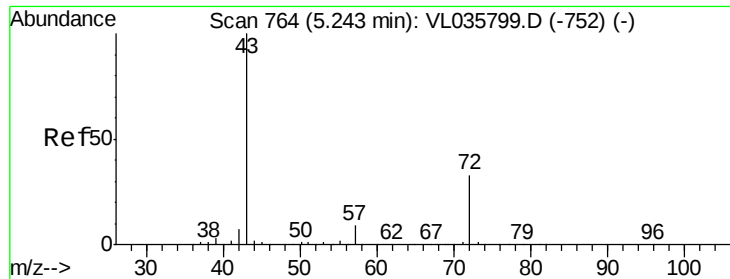
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.03 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Tgt Ion: 114 Resp: 5184558
Ion Ratio Lower Upper
114 100
63 18.5 16.1 24.1
88 16.8 13.7 20.5



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

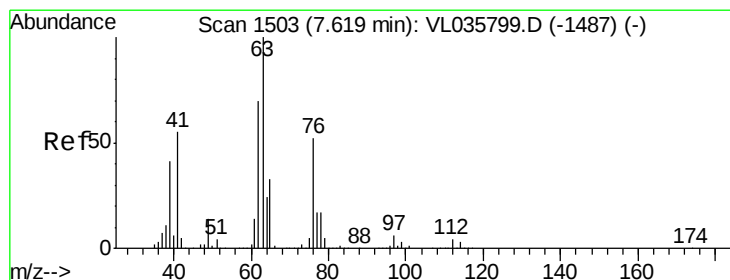
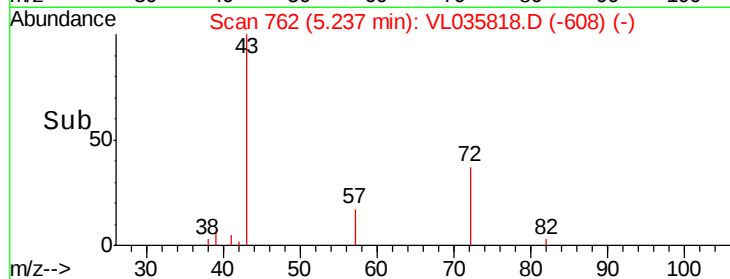
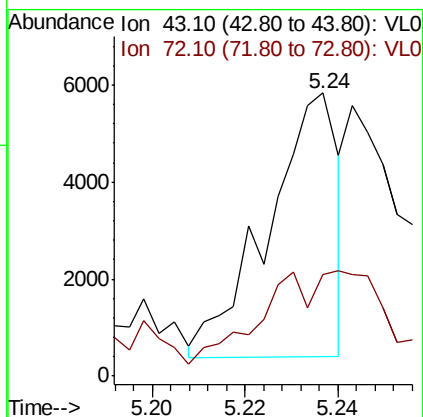
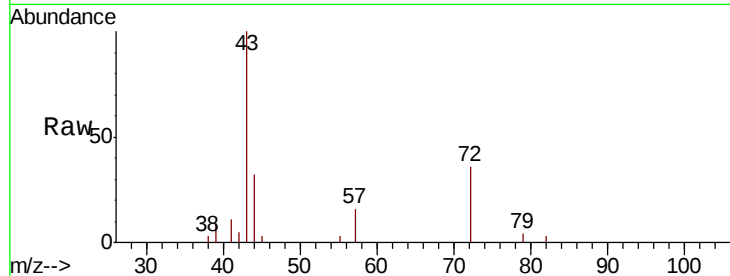




#34
2-Butanone
Concen: 0.034 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

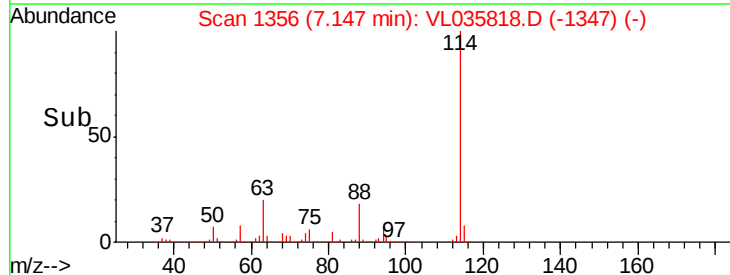
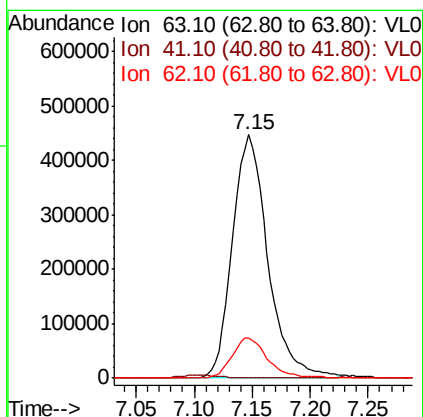
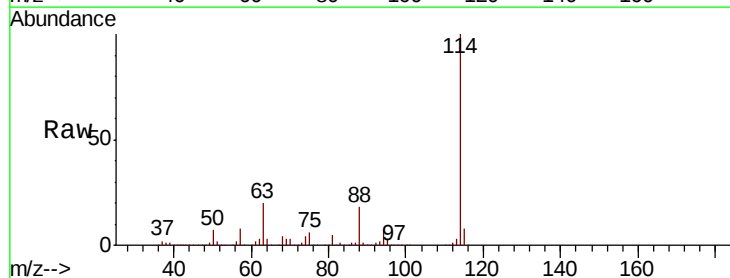
Instrument :
MSVOA_L
ClientSampled :

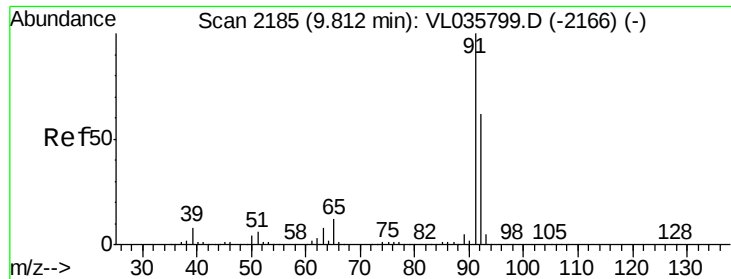
Tot Ion: 43 Resp: 5703
Ion Ratio Lower Upper
43 100
72 0.0 26.5 39.7#



#39
1,2-Dichloropropane
Concen: 7.307 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.47 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Tgt Ion: 63 Resp: 948178
Ion Ratio Lower Upper
63 100
41 0.0 43.8 65.6#
62 16.2 56.2 84.2#





#53

Toluene

Concen: 0.182 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Instrument :

MSVOA_L

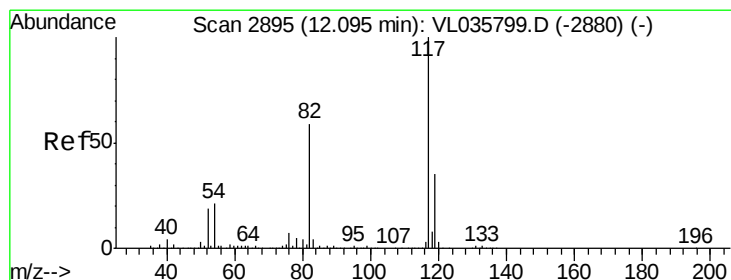
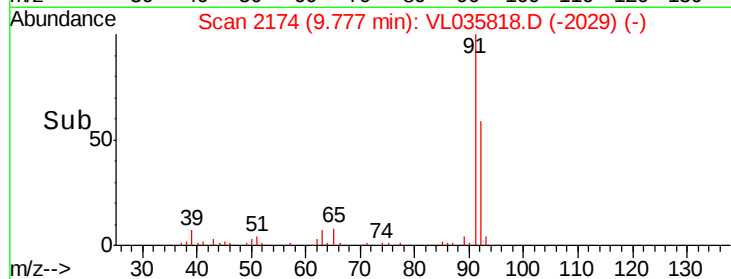
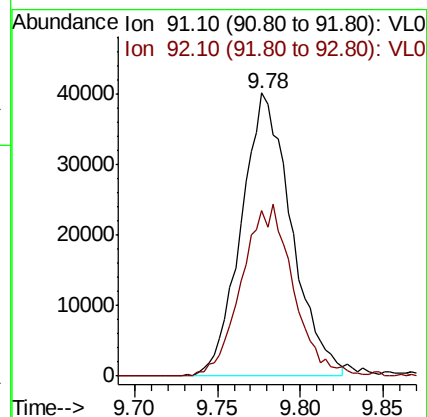
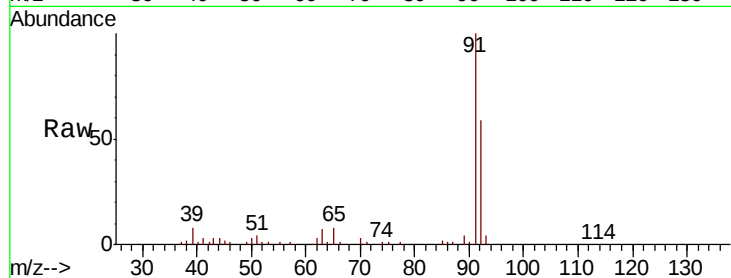
ClientSampleId :

Tot Ion: 91 Resp: 84788

Ion Ratio Lower Upper

91 100

92 62.3 49.8 74.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.04 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

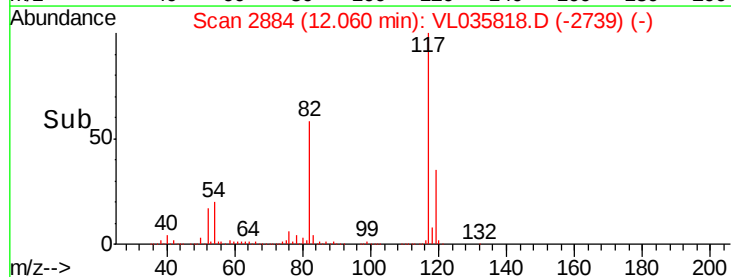
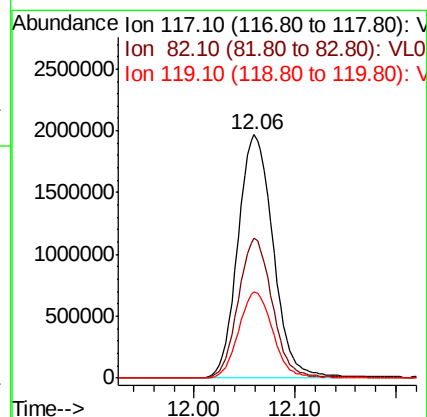
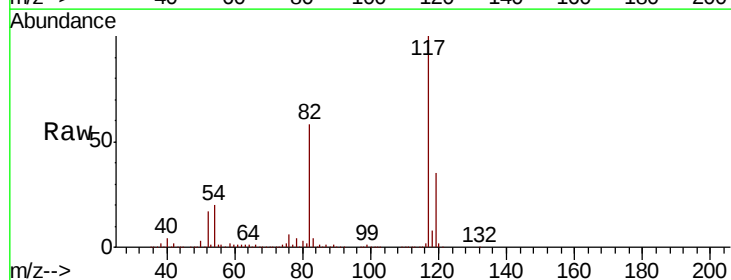
Tgt Ion: 117 Resp: 4786483

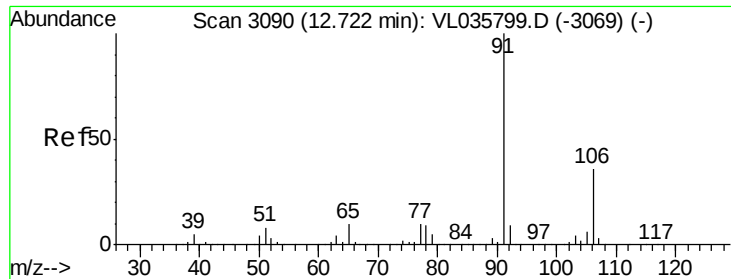
Ion Ratio Lower Upper

117 100

82 56.3 50.6 76.0

119 34.7 52.6 78.8#





#58

Ethyl Benzene

Concen: 0.075 ppbv

RT: 12.68 min Scan# 3077

Delta R.T. -0.04 min

Lab File: VL035818.D

Acq: 4 Nov 2020 00:34

Instrument :

MSVOA_L

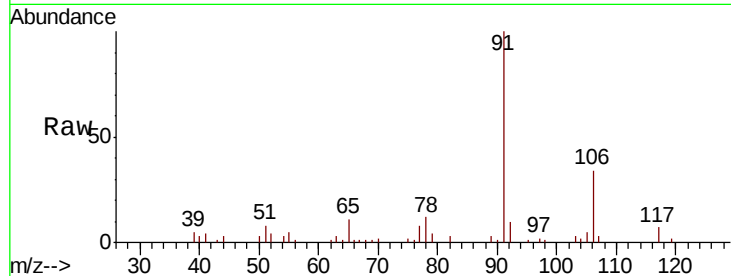
ClientSampleId :

Tot Ion: 91 Resp: 43448

Ion Ratio Lower Upper

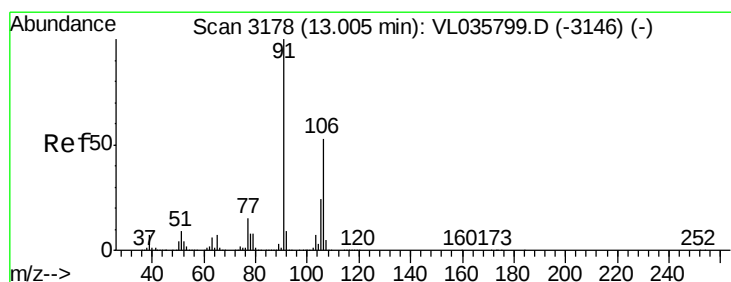
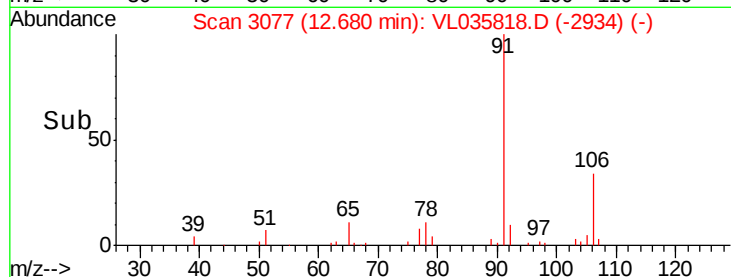
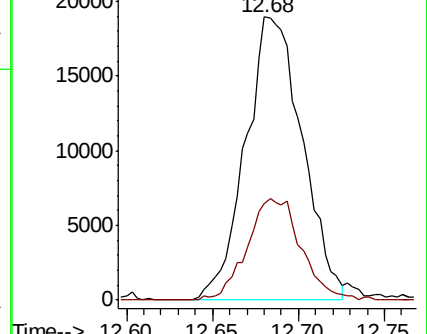
91 100

106 33.9 28.6 43.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.217 ppbv

RT: 12.94 min Scan# 3159

Delta R.T. -0.06 min

Lab File: VL035818.D

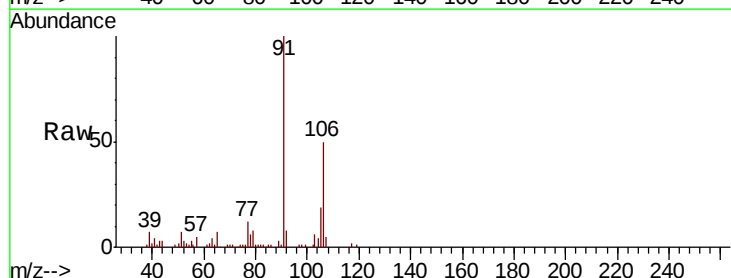
Acq: 4 Nov 2020 00:34

Tgt Ion: 91 Resp: 107076

Ion Ratio Lower Upper

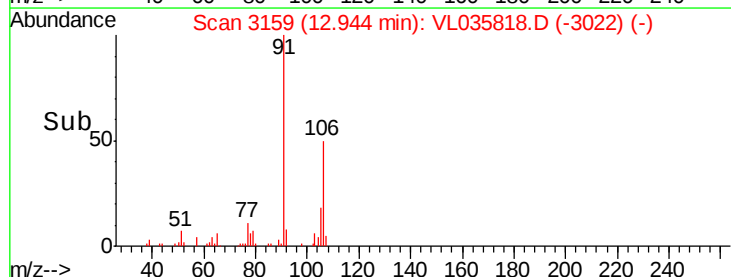
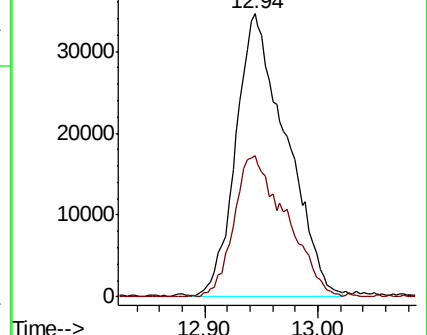
91 100

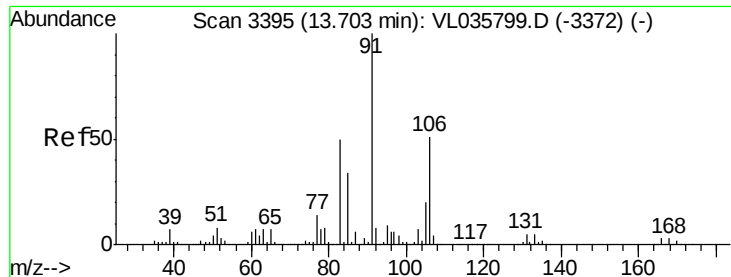
106 51.6 39.5 59.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

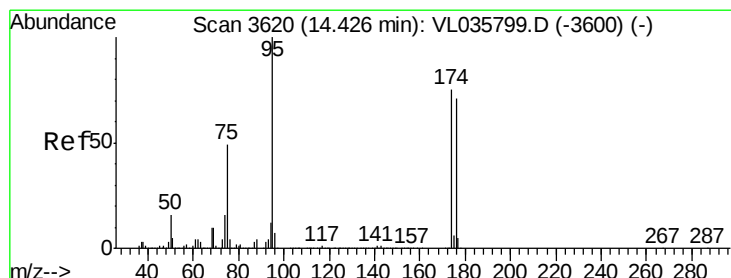
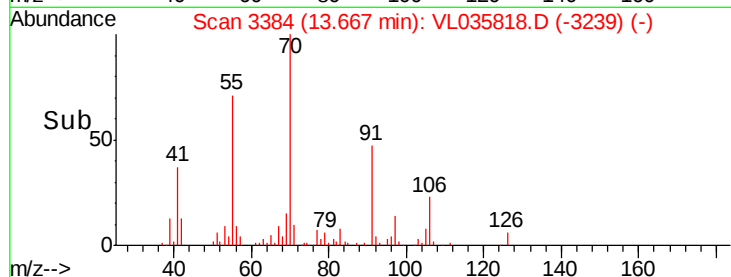
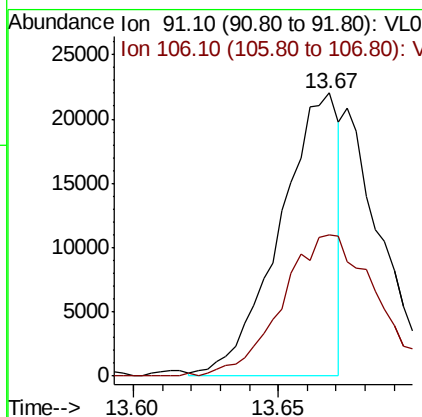
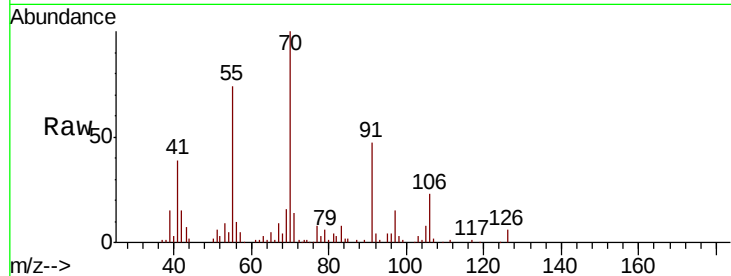




#60
o-Xylene
Concen: 0.065 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.04 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

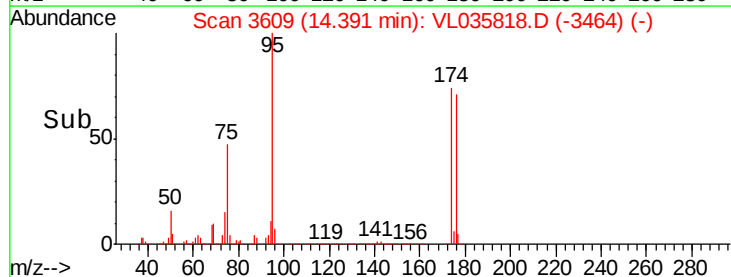
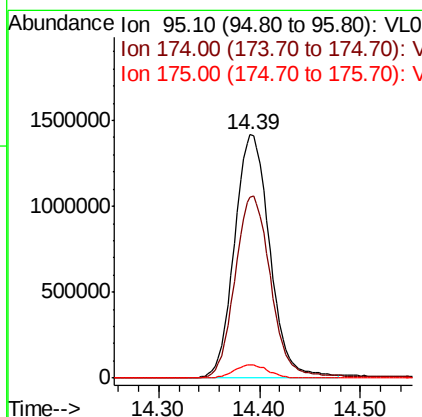
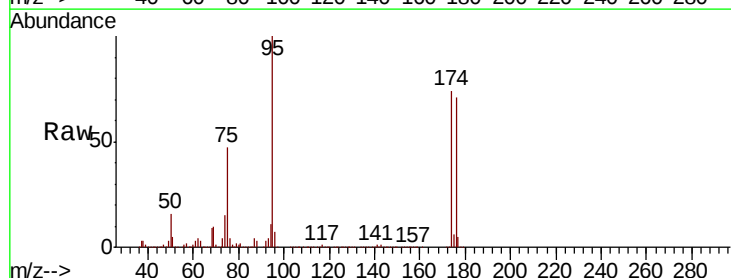
Instrument :
MSVOA_L
ClientSampled :

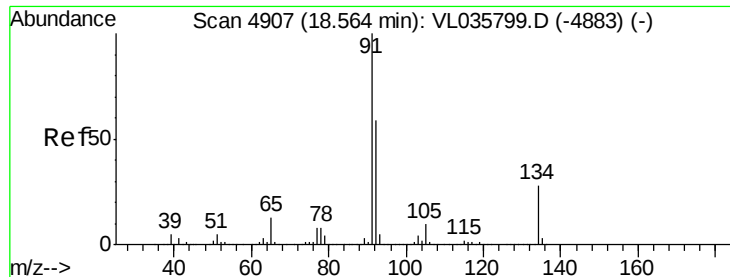
Tot Ion: 91 Resp: 30972
Ion Ratio Lower Upper
91 100
106 81.1 24.8 74.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.141 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Tgt Ion: 95 Resp: 3448700
Ion Ratio Lower Upper
95 100
174 77.2 59.8 89.6
175 5.6 4.3 6.5

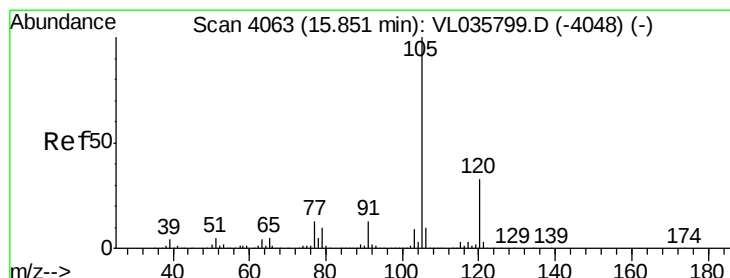
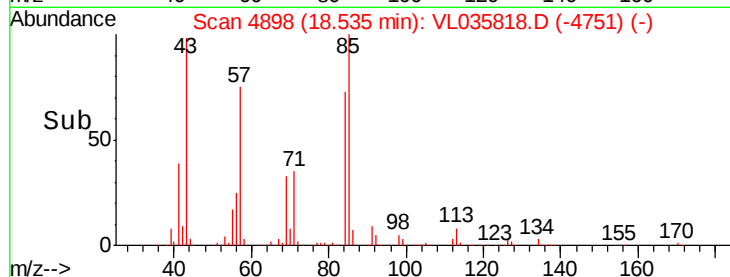
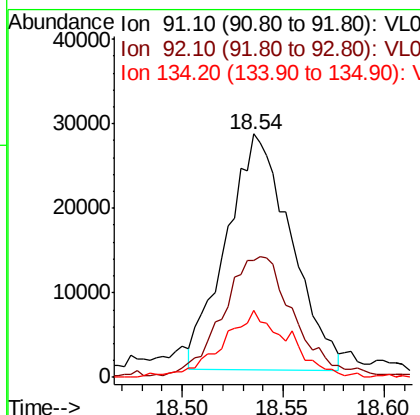
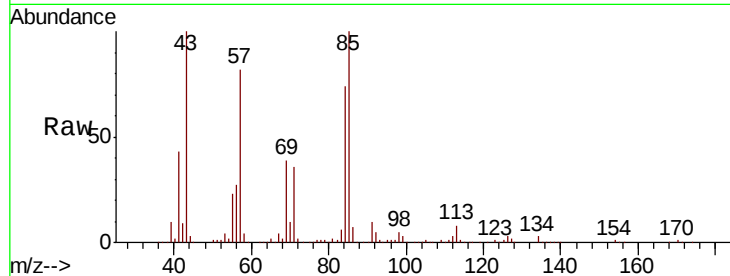




#70
n-Butylbenzene
Concen: 0.085 ppbv
RT: 18.54 min Scan# 4898
Delta R.T. -0.03 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

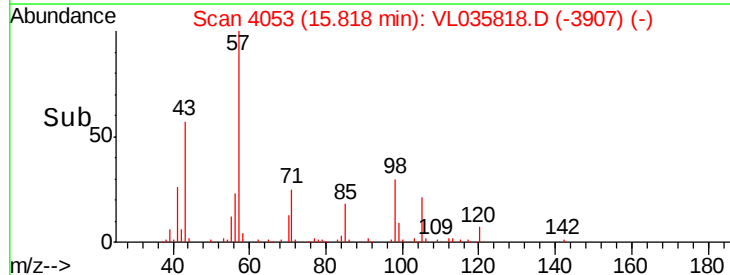
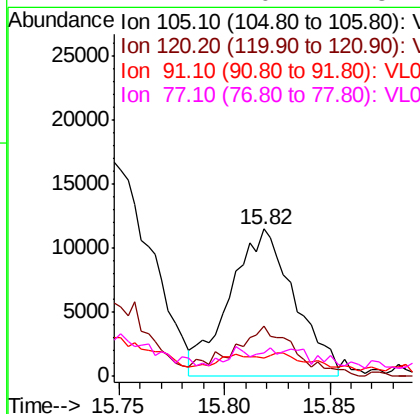
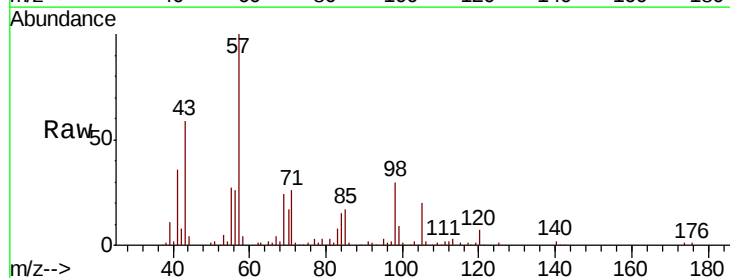
Instrument :
MSVOA_L
ClientSampled :

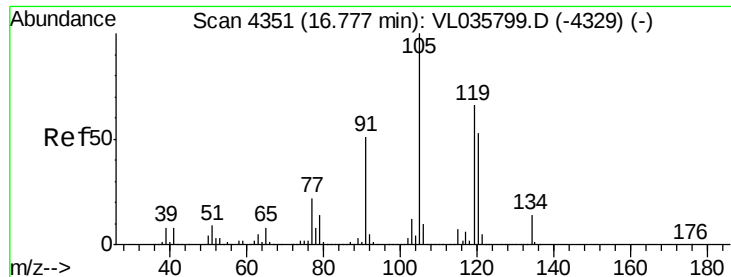
Tot Ion: 91 Resp: 62421
Ion Ratio Lower Upper
91 100
92 58.2 45.7 68.5
134 29.1 21.0 31.4



#72
4-Ethyltoluene
Concen: 0.042 ppbv
RT: 15.82 min Scan# 4053
Delta R.T. -0.03 min
Lab File: VL035818.D
Acq: 4 Nov 2020 00:34

Tgt Ion: 105 Resp: 24596
Ion Ratio Lower Upper
105 100
120 34.5 25.9 38.9
91 15.6 9.9 14.9#
77 24.1 10.2 15.2#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.087 ppbv
 RT: 16.74 min Scan# 4339
 Delta R.T. -0.04 min
 Lab File: VL035818.D
 Acq: 4 Nov 2020 00:34

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	49643
Ion	Ratio	Lower	Upper
105	100		
120	45.7	42.0	63.0
91	15.6	41.0	61.6#
77	11.3	17.3	25.9#

