

Data File : VL034816.D
Acq On : 6 Mar 2020 6:34
Operator : SY/AP
Sample : L1698-03DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-6-4DL2

Quant Time: Mar 06 08:00:22 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	463440	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	1060950	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	1057223	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	825880	9.37	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

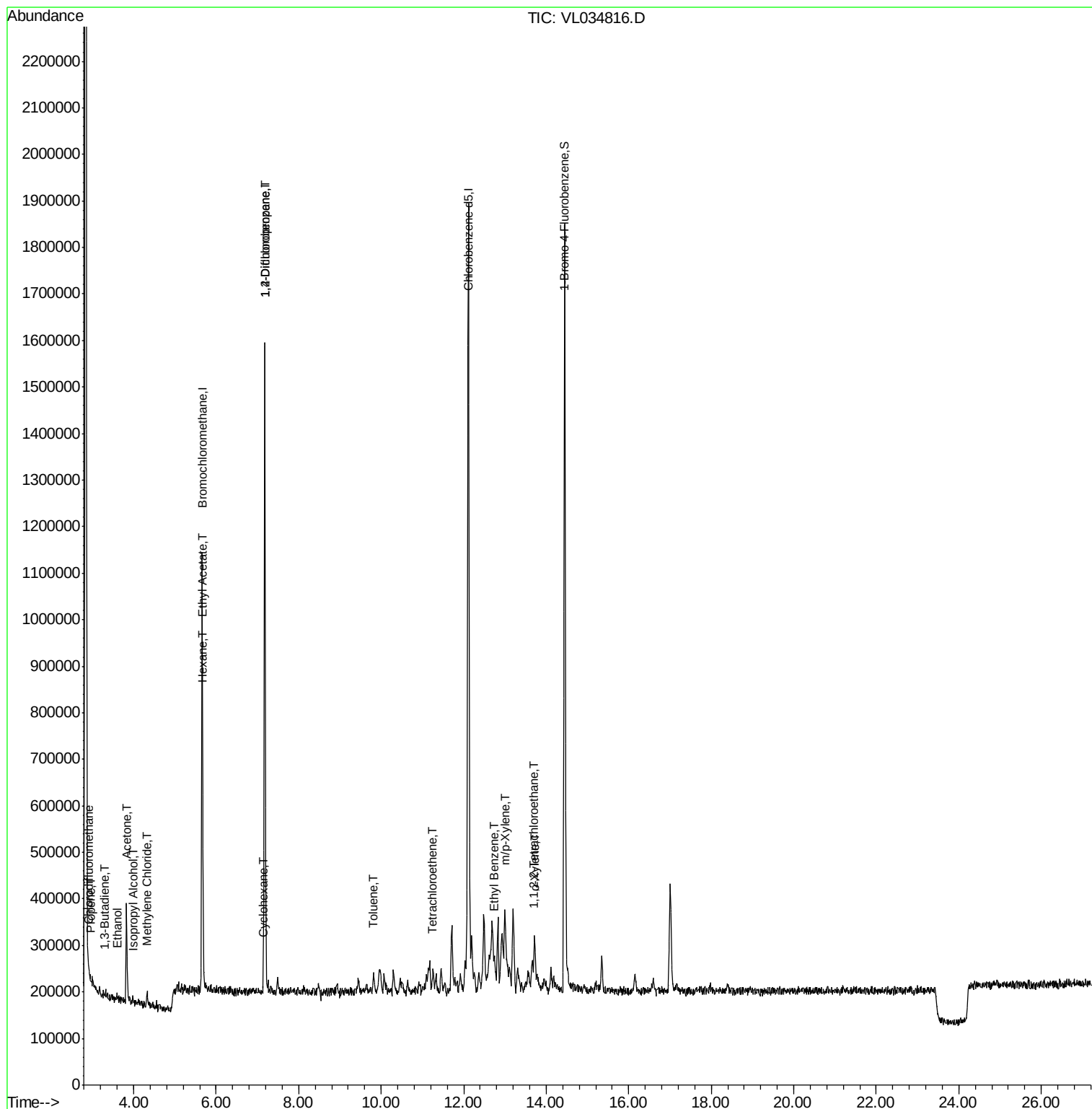
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.92	51	2345	0.044	ppbv #	61
9) Propene	2.97	41	1111	0.053	ppbv #	15
13) Ethanol	3.59	45	10156	1.426	ppbv	91
15) Acetone	3.83	43	228303	4.114	ppbv	99
16) 1,3-Butadiene	3.30	39	917	0.037	ppbv #	9
19) Isopropyl Alcohol	3.97	45	6577	0.198	ppbv #	93
20) Methylene Chloride	4.32	84	8955	0.452	ppbv #	92
25) Ethyl Acetate	5.68	43	5953	0.062	ppbv #	76
26) Hexane	5.68	57	4895	0.117	ppbv #	46
30) Cyclohexane	7.13	84	1061	0.033	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	267081	7.300	ppbv #	23
52) Tetrachloroethene	11.23	164	1846	0.055	ppbv	88
53) Toluene	9.83	91	19808	0.206	ppbv	99
58) Ethyl Benzene	12.74	91	21019	0.161	ppbv #	82
59) m/p-Xylene	13.00	91	94921	0.842	ppbv	100
60) o-Xylene	13.73	91	14916	0.131	ppbv #	32
63) 1,1,2,2-Tetrachloroethane	13.70	83	5670	0.063	ppbv #	24

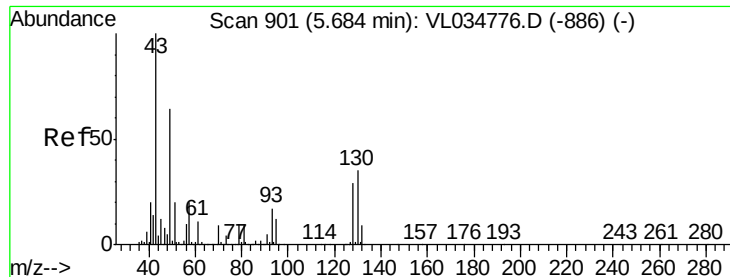
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.03 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

SS-6-4DL2

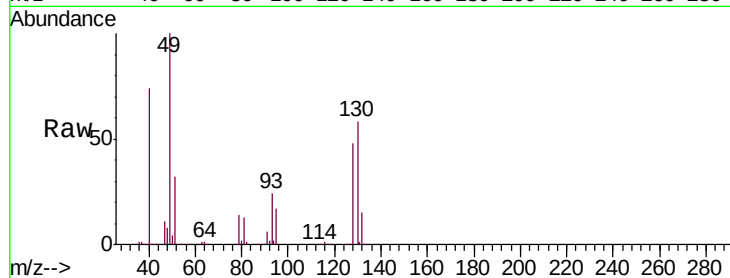
Tgt Ion: 49 Resp: 463440

Ion Ratio Lower Upper

49 100

128 47.2 21.6 64.6

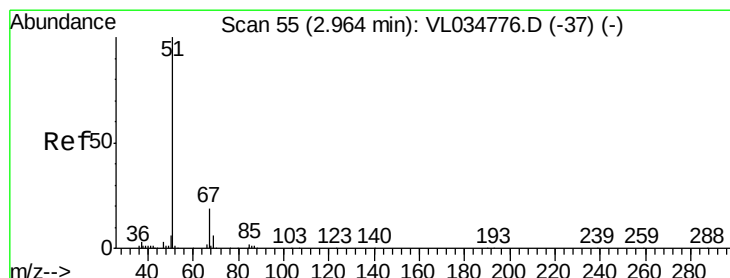
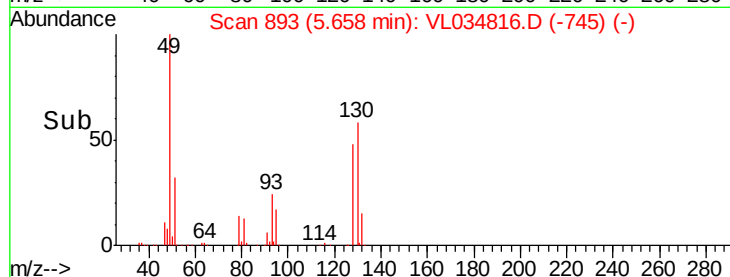
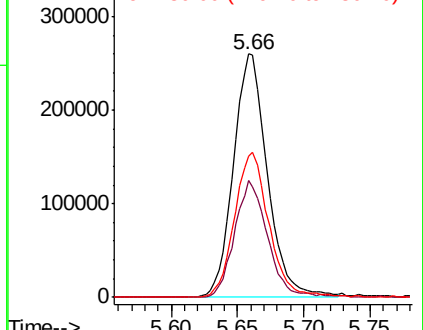
130 60.7 27.4 82.2



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: 0.044 ppbv

RT: 2.92 min Scan# 42

Delta R.T. -0.04 min

Lab File: VL034816.D

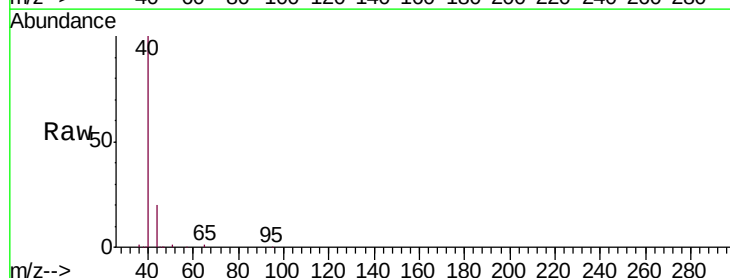
Acq: 6 Mar 2020 6:34

Tgt Ion: 51 Resp: 2345

Ion Ratio Lower Upper

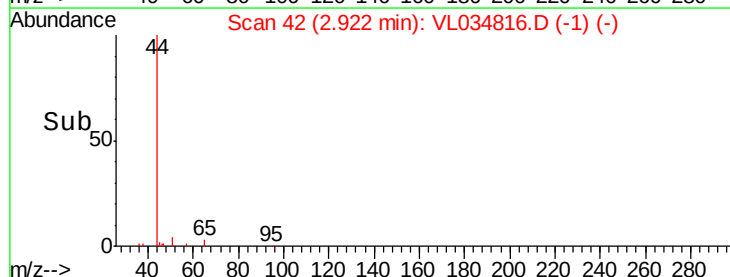
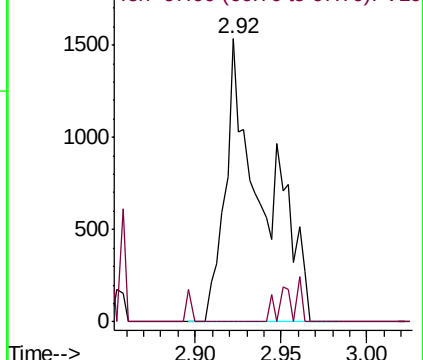
51 100

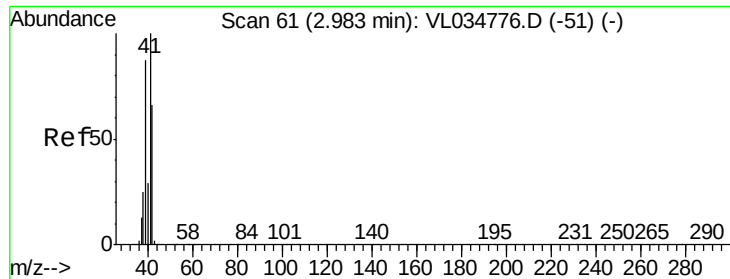
67 1.5 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.053 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

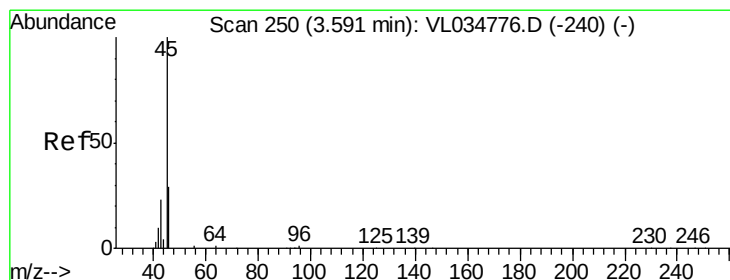
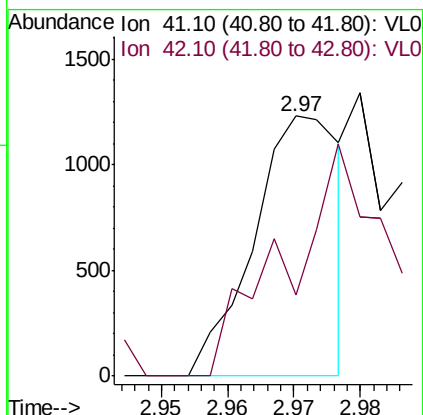
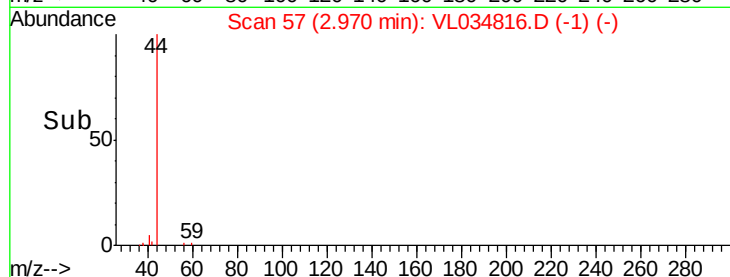
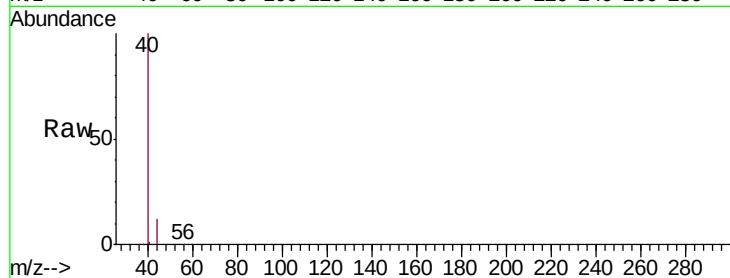
SS-6-4DL2

Tgt Ion: 41 Resp: 1111

Ion Ratio Lower Upper

41 100

42 0.0 55.6 83.4#



#13

Ethanol

Concen: 1.426 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.00 min

Lab File: VL034816.D

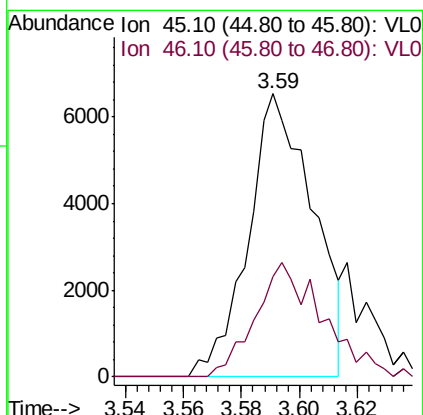
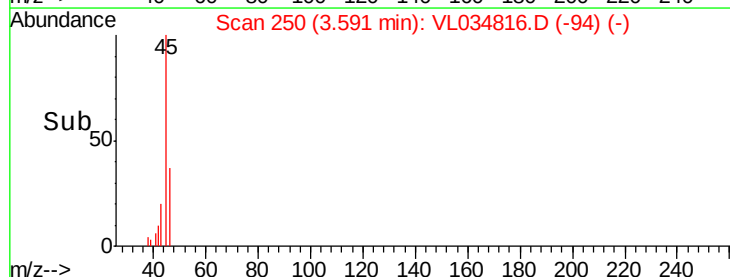
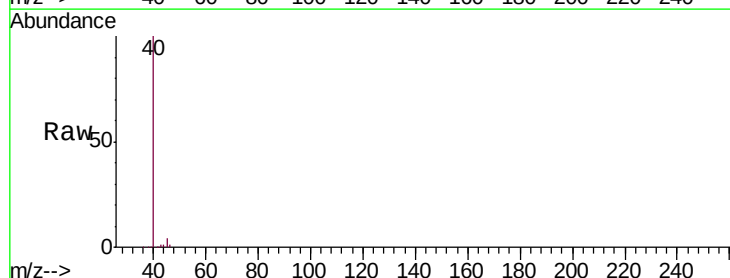
Acq: 6 Mar 2020 6:34

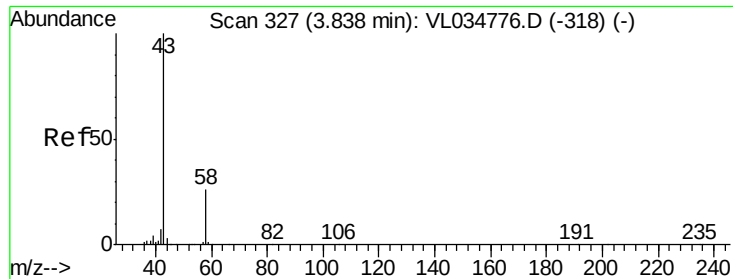
Tgt Ion: 45 Resp: 10156

Ion Ratio Lower Upper

45 100

46 42.1 14.7 58.9





#15

Acetone

Concen: 4.114 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

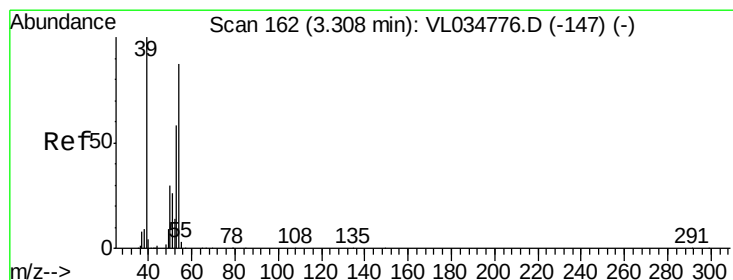
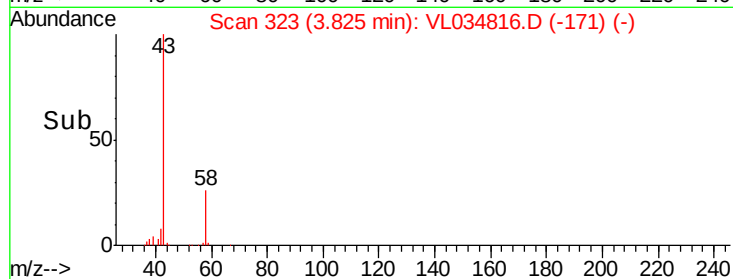
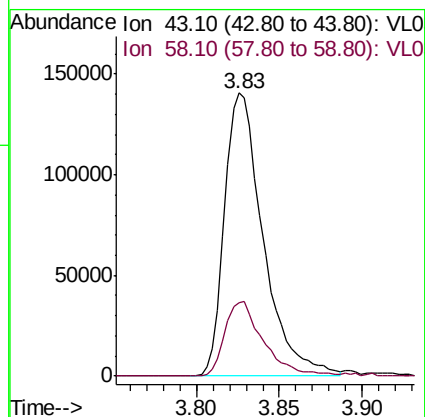
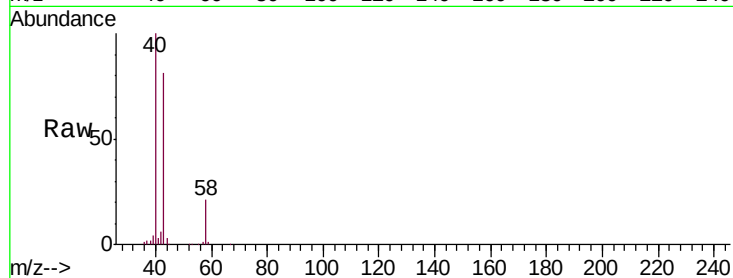
SS-6-4DL2

Tgt Ion: 43 Resp: 228303

Ion Ratio Lower Upper

43 100

58 27.0 21.0 31.6



#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.01 min

Lab File: VL034816.D

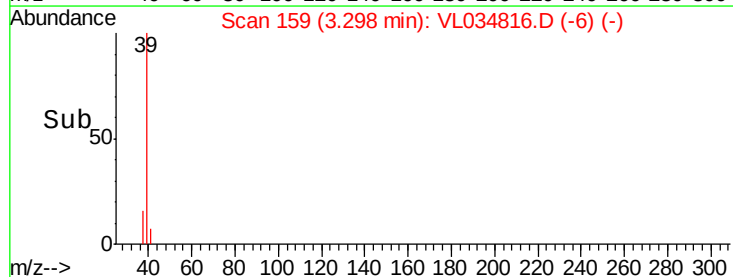
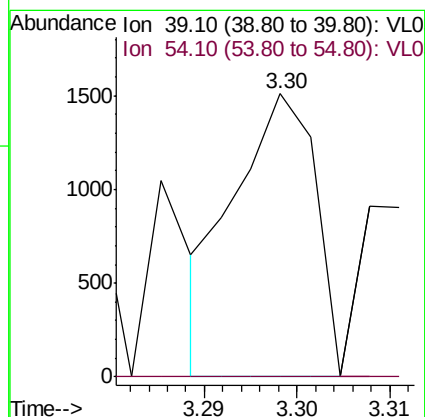
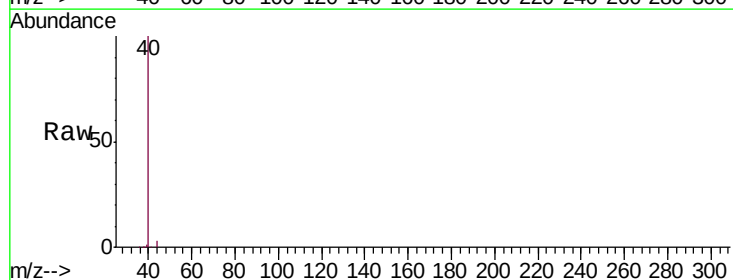
Acq: 6 Mar 2020 6:34

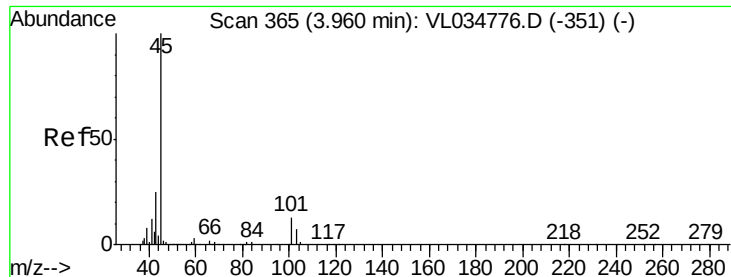
Tgt Ion: 39 Resp: 917

Ion Ratio Lower Upper

39 100

54 0.0 64.2 96.2#





#19

Isopropyl Alcohol

Concen: 0.198 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

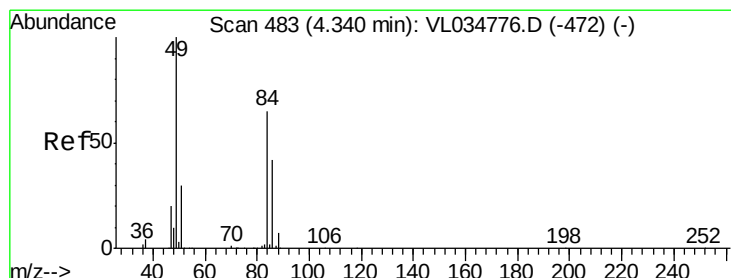
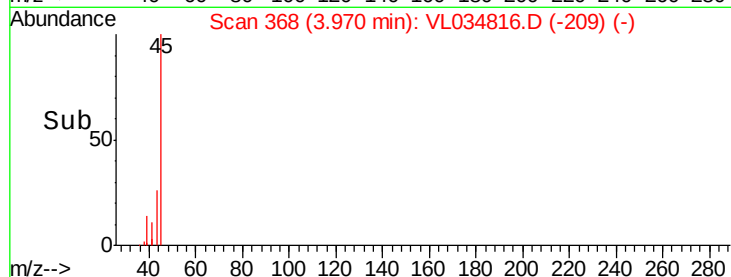
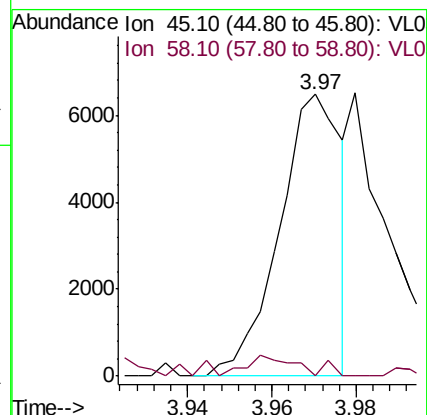
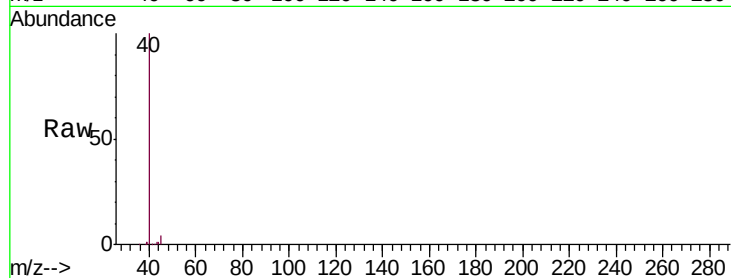
SS-6-4DL2

Tgt Ion: 45 Resp: 6577

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 0.452 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.02 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Tgt Ion: 84 Resp: 8955

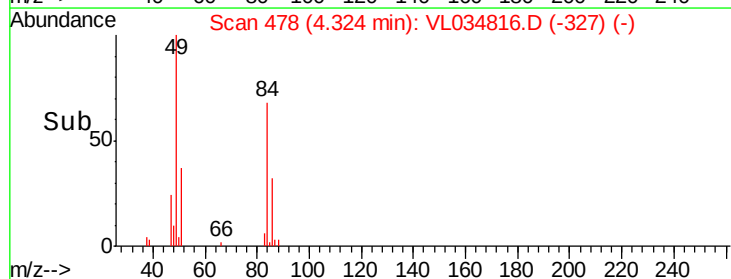
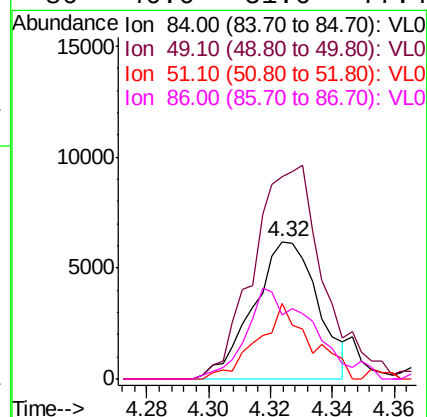
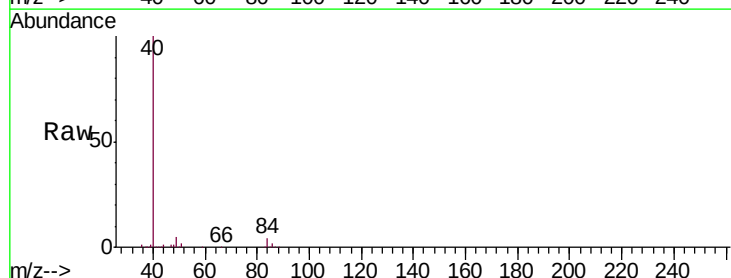
Ion Ratio Lower Upper

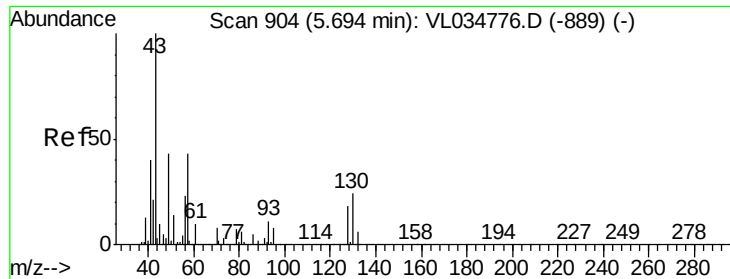
84 100

49 152.6 123.2 184.8

51 55.1 37.4 56.2

86 46.6 51.6 77.4#

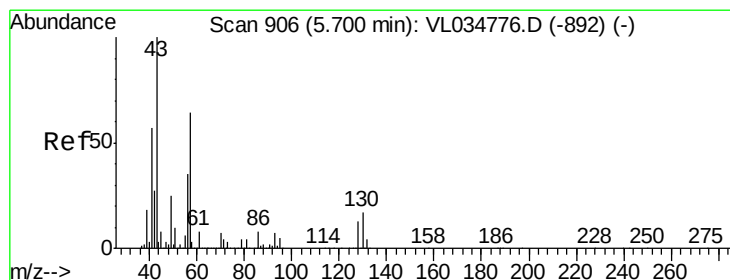
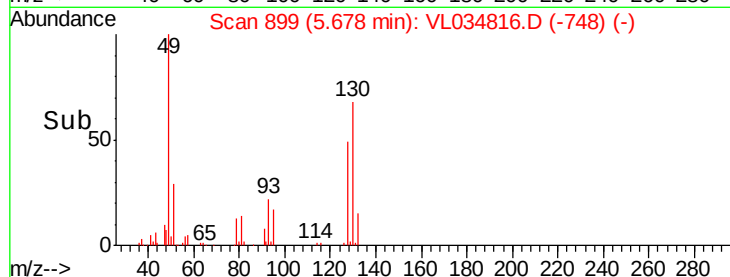
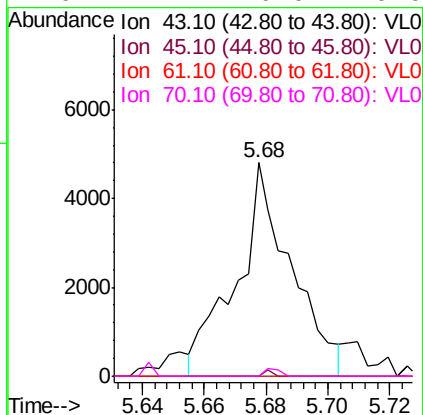
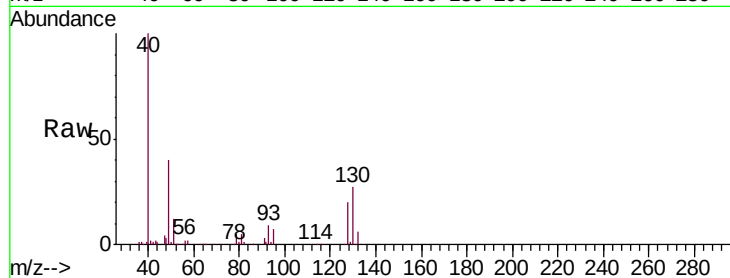




#25
Ethyl Acetate
Concen: 0.062 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL034816.D
Acq: 6 Mar 2020 6:34

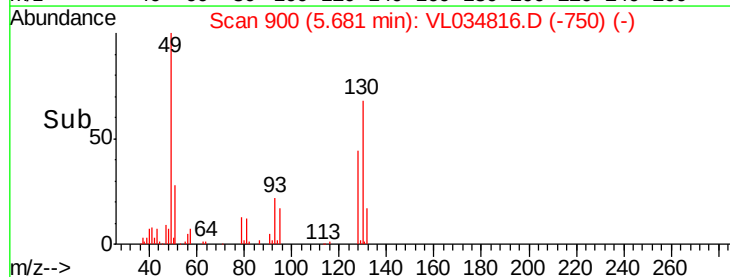
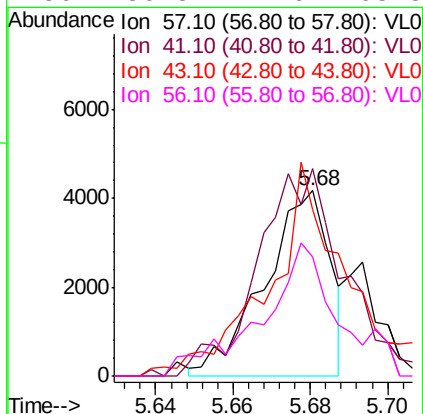
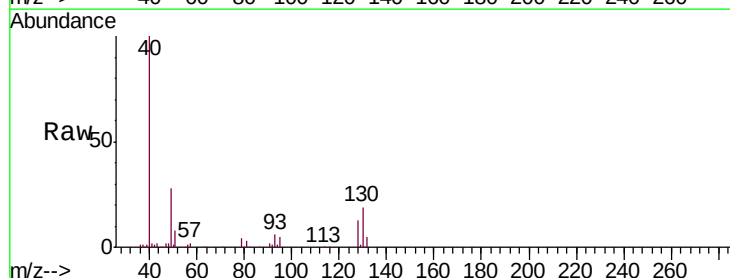
Instrument :
MSVOA_L
ClientSampleId :
SS-6-4DL2

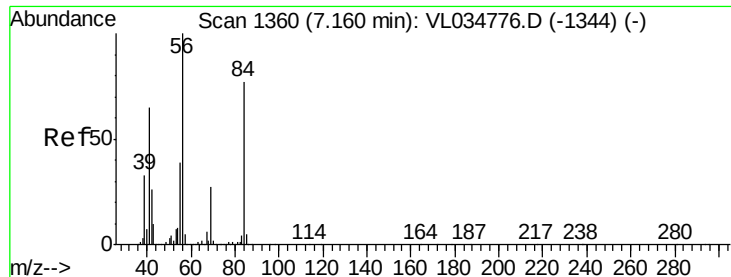
Tgt Ion:	43	Resp:	5953
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.4#
61	0.0	7.5	11.3#
70	1.1	6.0	9.0#



#26
Hexane
Concen: 0.117 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.02 min
Lab File: VL034816.D
Acq: 6 Mar 2020 6:34

Tgt Ion:	57	Resp:	4895
Ion	Ratio	Lower	Upper
57	100		
41	152.6	72.0	108.0#
43	141.3	179.1	268.7#
56	86.3	42.6	63.8#

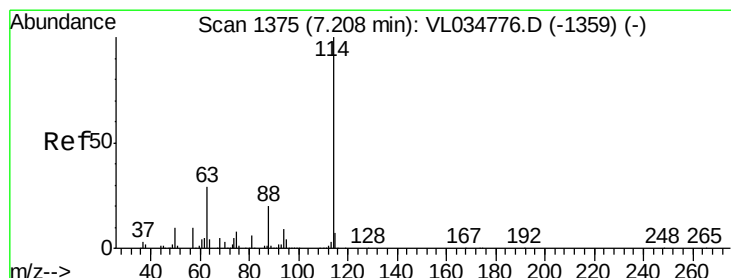
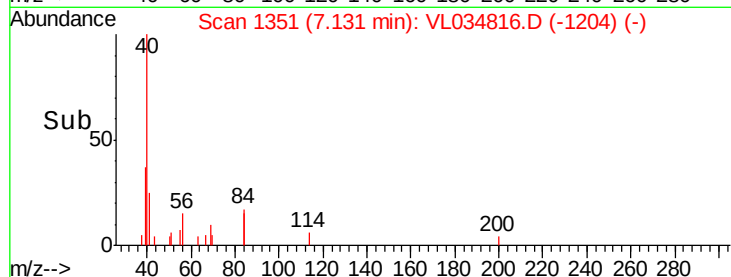
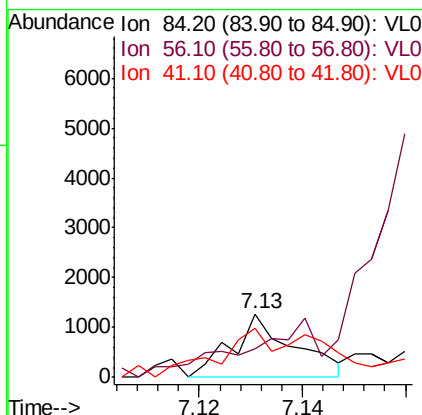
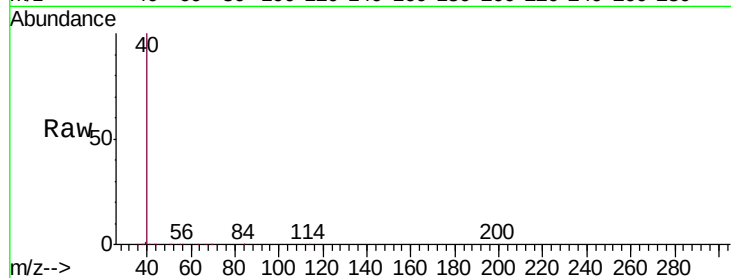




#30
Cyclohexane
Concen: 0.033 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.03 min
Lab File: VL034816.D
Acq: 6 Mar 2020 6:34

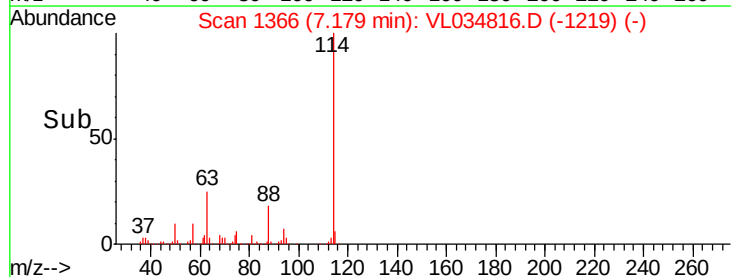
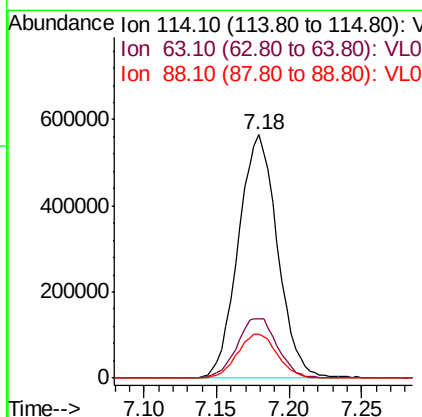
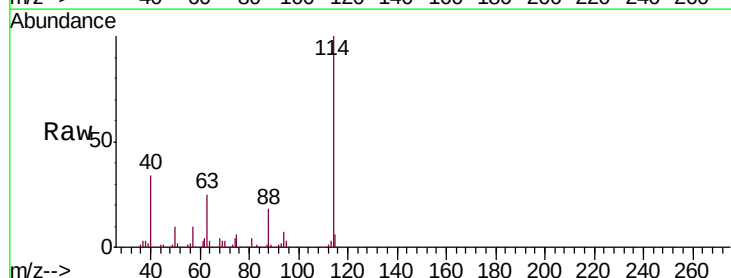
Instrument :
MSVOA_L
ClientSampleId :
SS-6-4DL2

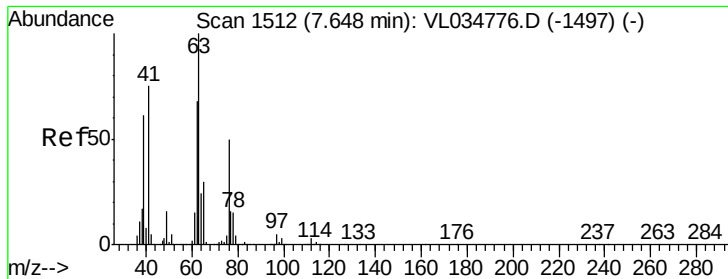
Tgt Ion: 84 Resp: 1061
Ion Ratio Lower Upper
84 100
56 0.0 113.2 169.8#
41 196.7 70.2 105.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.03 min
Lab File: VL034816.D
Acq: 6 Mar 2020 6:34

Tgt Ion: 114 Resp: 1060950
Ion Ratio Lower Upper
114 100
63 25.4 23.6 35.4
88 18.5 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.300 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.47 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

SS-6-4DL2

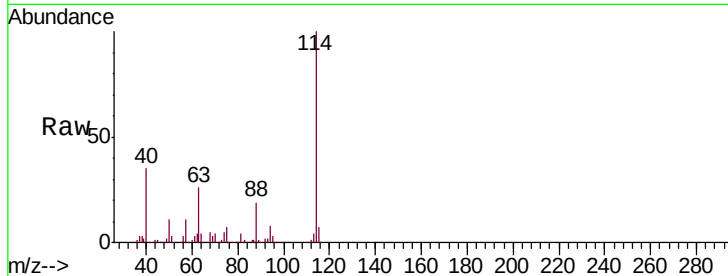
Tgt Ion: 63 Resp: 267081

Ion Ratio Lower Upper

63 100

41 0.1 60.3 90.5#

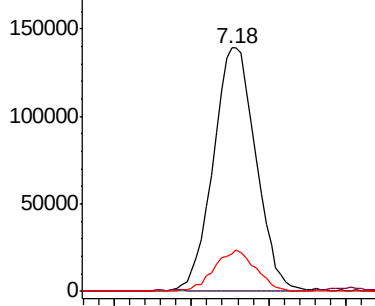
62 15.5 54.5 81.7#



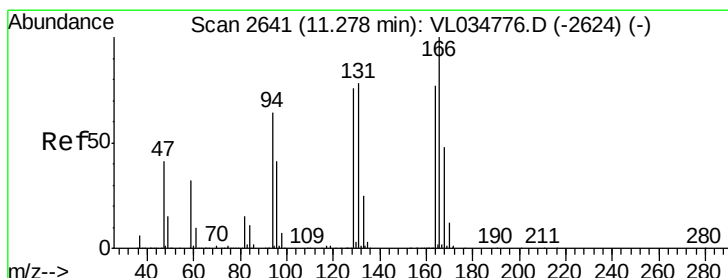
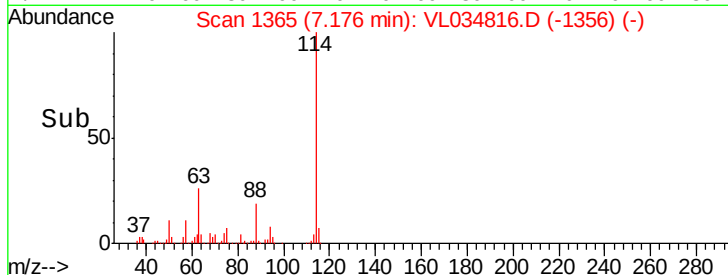
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



Time-->



#52

Tetrachloroethene

Concen: 0.055 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. -0.04 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Tgt Ion: 164 Resp: 1846

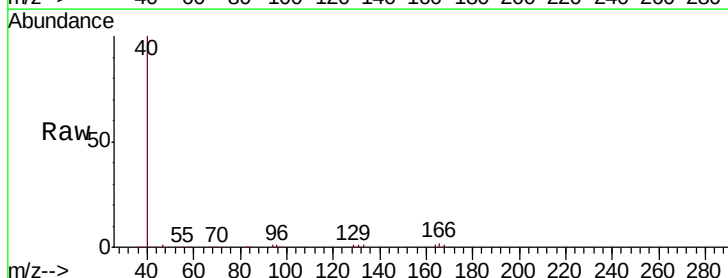
Ion Ratio Lower Upper

164 100

166 121.6 103.3 154.9

129 117.8 79.0 118.4

131 87.5 81.0 121.4

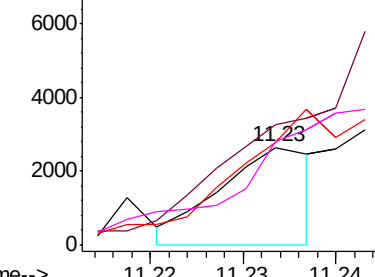


Abundance Ion 163.90 (163.60 to 164.60): V

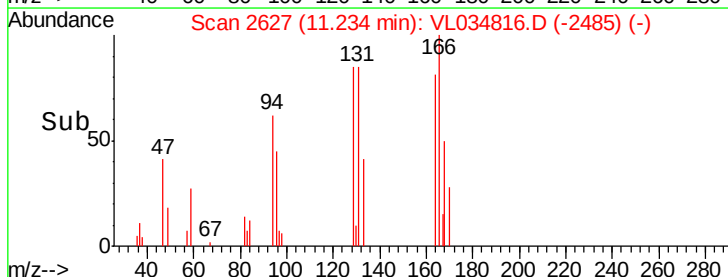
Ion 165.90 (165.60 to 166.60): V

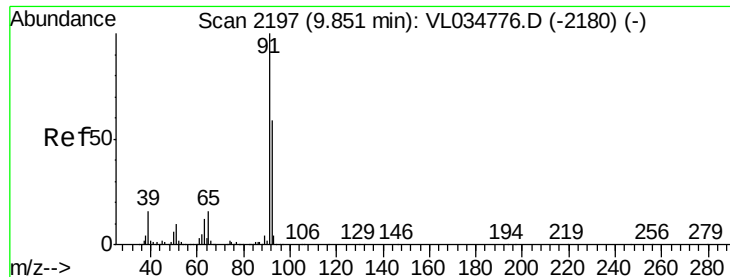
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



Time-->





#53

Toluene

Concen: 0.206 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

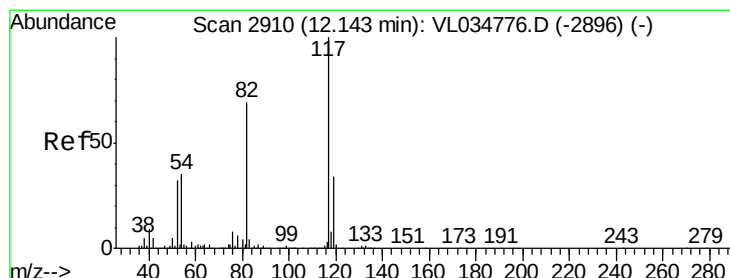
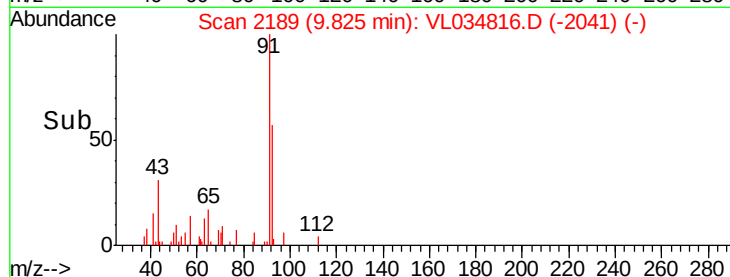
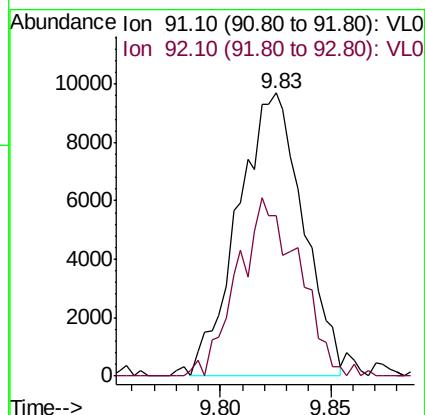
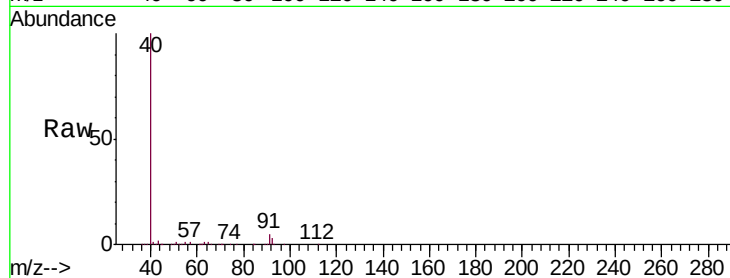
SS-6-4DL2

Tgt Ion: 91 Resp: 19808

Ion Ratio Lower Upper

91 100

92 59.5 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.03 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

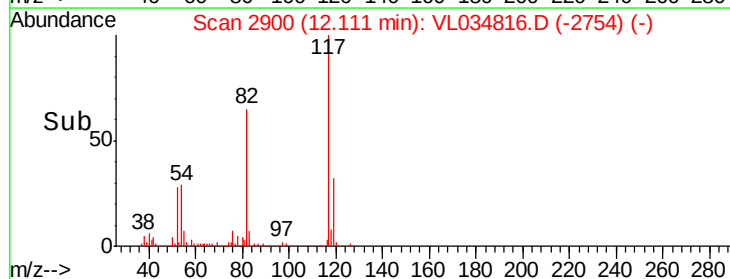
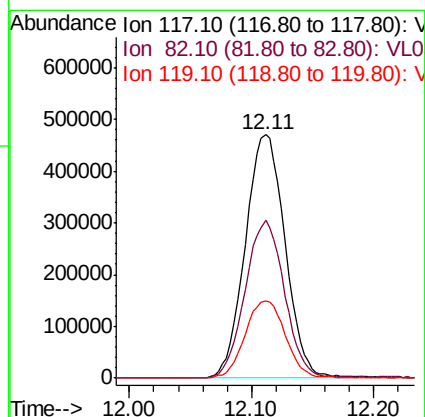
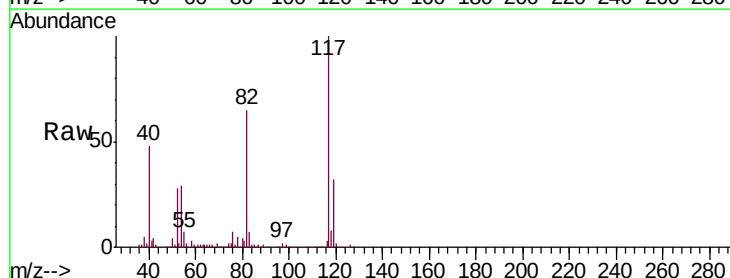
Tgt Ion: 117 Resp: 1057223

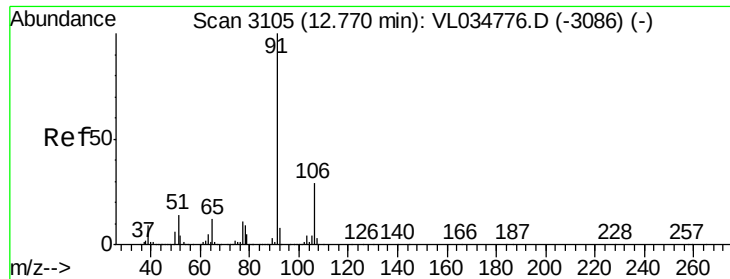
Ion Ratio Lower Upper

117 100

82 64.6 53.9 80.9

119 32.4 25.0 37.4





#58

Ethyl Benzene

Concen: 0.161 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.03 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

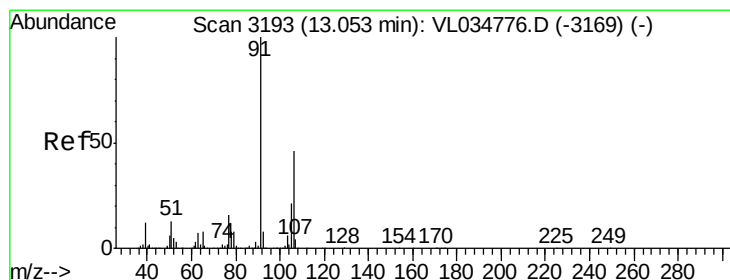
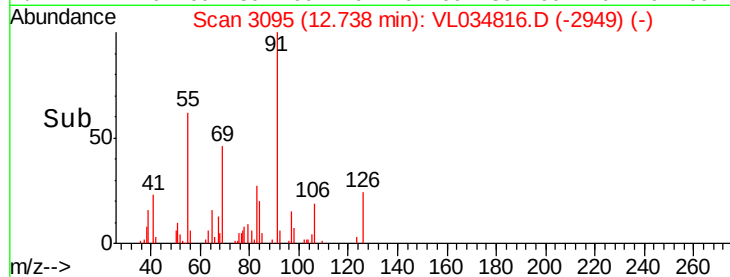
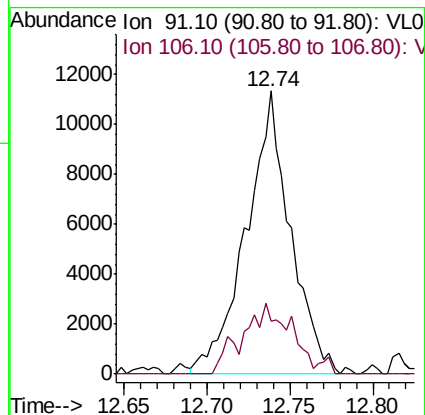
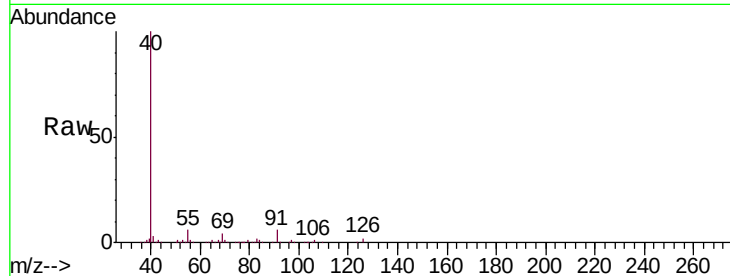
SS-6-4DL2

Tgt Ion: 91 Resp: 21019

Ion Ratio Lower Upper

91 100

106 18.9 22.8 34.2#



#59

m/p-Xylene

Concen: 0.842 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.06 min

Lab File: VL034816.D

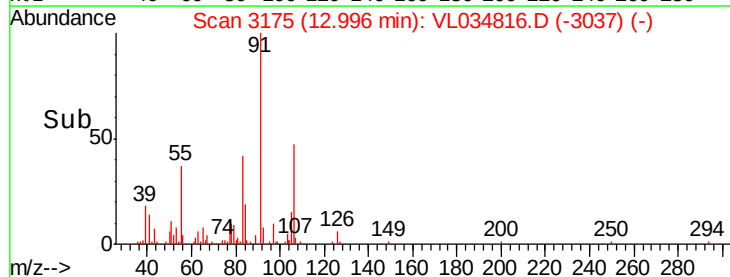
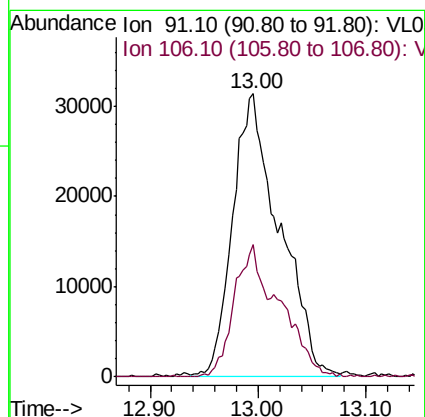
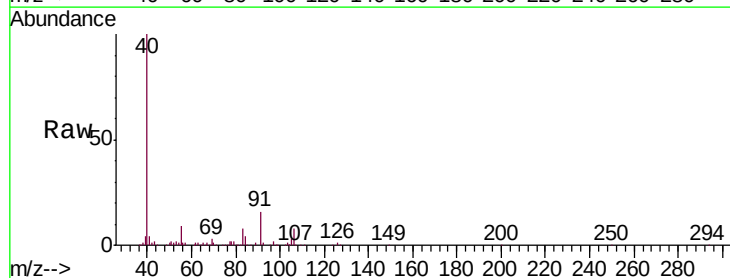
Acq: 6 Mar 2020 6:34

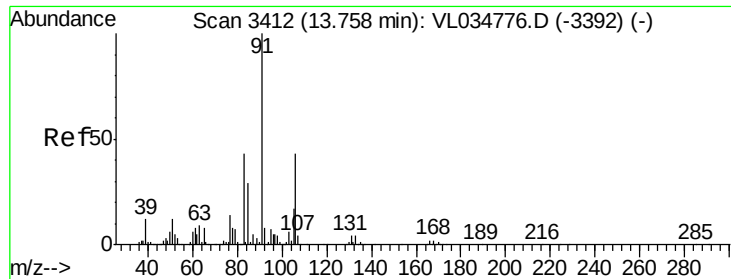
Tgt Ion: 91 Resp: 94921

Ion Ratio Lower Upper

91 100

106 45.0 35.8 53.8

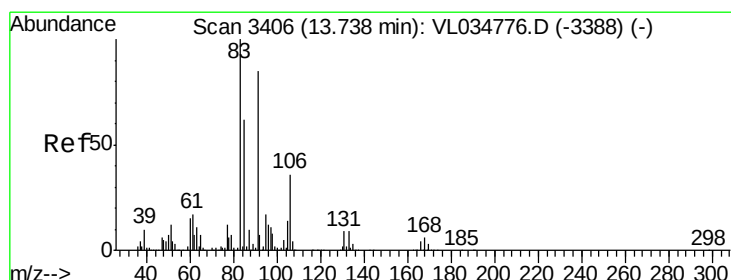
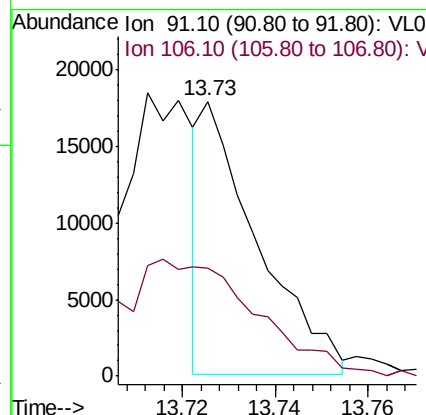
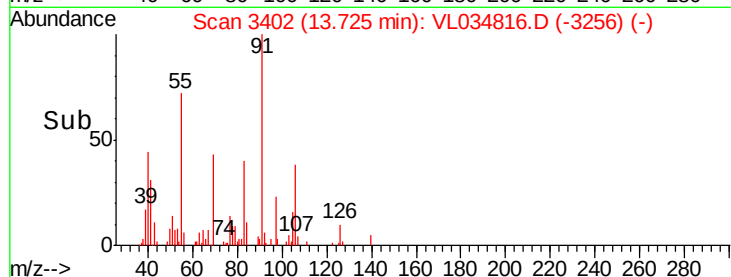
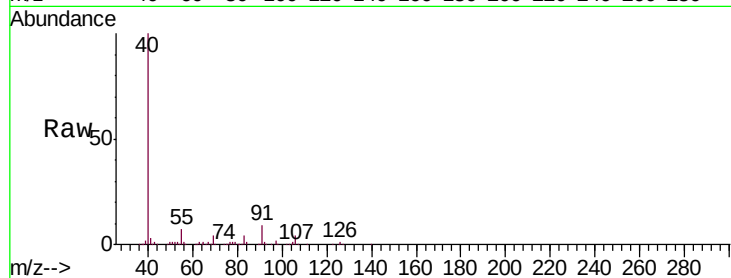




#60
o-Xylene
Concen: 0.131 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.03 min
Lab File: VL034816.D
Acq: 6 Mar 2020 6:34

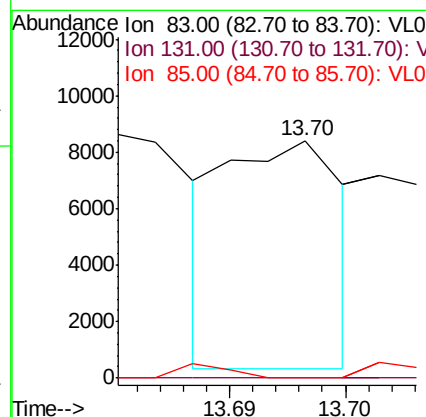
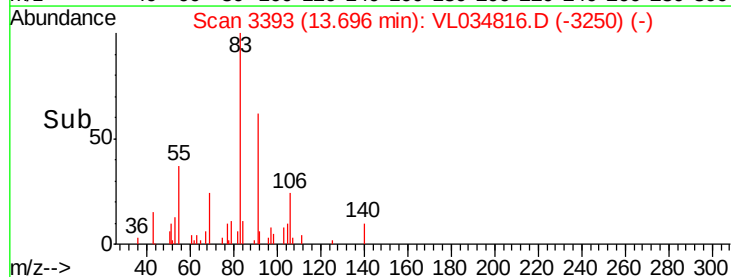
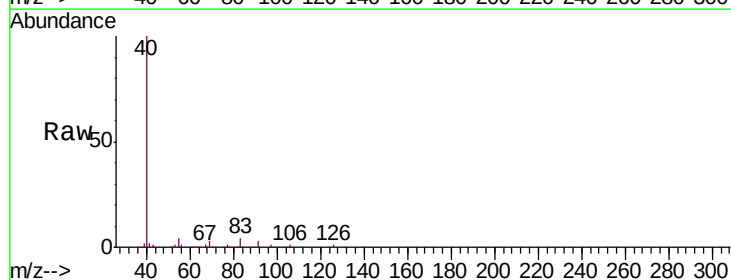
Instrument :
MSVOA_L
ClientSampleId :
SS-6-4DL2

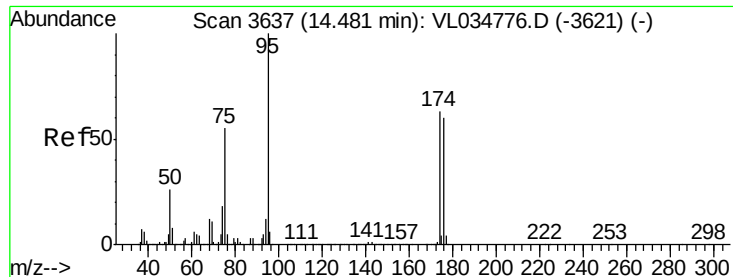
Tgt Ion: 91 Resp: 14916
Ion Ratio Lower Upper
91 100
106 0.0 21.7 65.1#



#63
1,1,2,2-Tetrachloroethane
Concen: 0.063 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.04 min
Lab File: VL034816.D
Acq: 6 Mar 2020 6:34

Tgt Ion: 83 Resp: 5670
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.0#
85 0.0 32.9 98.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.368 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. -0.03 min

Lab File: VL034816.D

Acq: 6 Mar 2020 6:34

Instrument :

MSVOA_L

ClientSampleId :

SS-6-4DL2

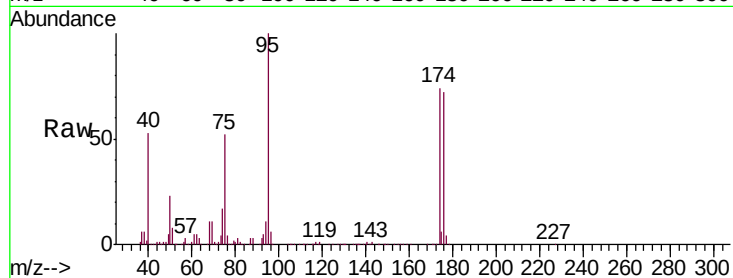
Tgt Ion: 95 Resp: 825880

Ion Ratio Lower Upper

95 100

174 73.0 50.6 76.0

175 5.7 3.8 5.6



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

