

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035013.D
 Acq On : 13 May 2020 8:39
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: May 14 00:43:55 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	5.64	49	794681	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	1931906	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	1781495	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1392117	9.65	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

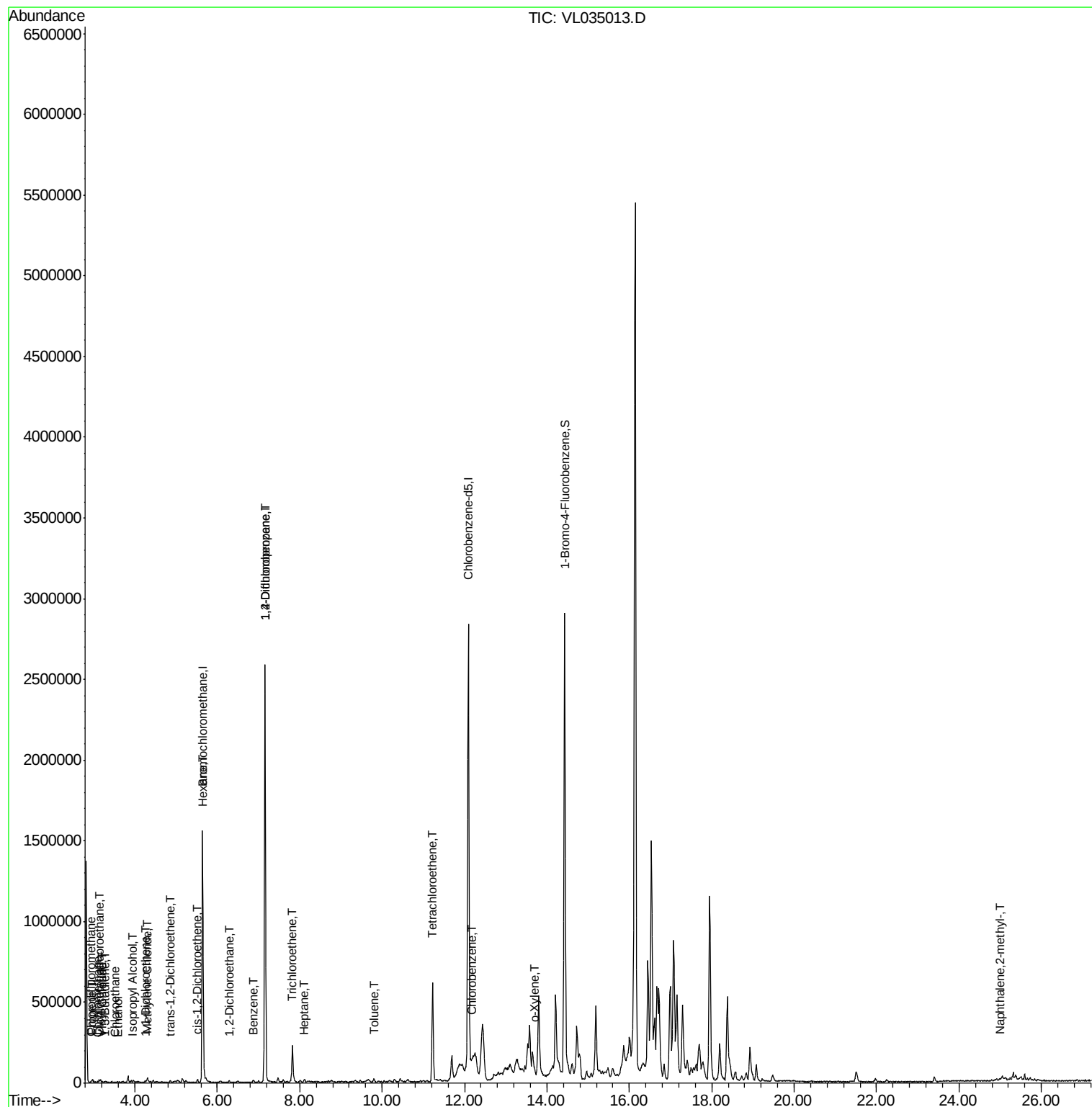
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.93	51	4587	0.051 ppbv	97
4) Chloromethane	3.09	50	1790	0.034 ppbv #	67
5) Vinyl Chloride	3.21	62	1664	0.033 ppbv	95
7) Chloroethane	3.51	64	588	0.032 ppbv	92
8) Dichlorotetrafluoroethane	3.14	85	5155	0.044 ppbv	93
9) Propene	2.96	41	4094	0.104 ppbv #	76
10) Heptane	8.11	43	3091	0.031 ppbv #	26
13) Ethanol	3.57	45	1093	0.084 ppbv #	39
16) 1,3-Butadiene	3.28	39	2412	0.053 ppbv	87
18) 1,1-Dichloroethene	4.25	96	1467	0.041 ppbv #	65
19) Isopropyl Alcohol	3.95	45	2920	0.042 ppbv #	94
20) Methylene Chloride	4.30	84	1773	0.051 ppbv #	51
22) trans-1,2-Dichloroethene	4.85	96	1534	0.043 ppbv #	42
26) Hexane	5.65	57	2469	0.032 ppbv #	1
31) cis-1,2-Dichloroethene	5.52	61	7686	0.103 ppbv #	78
36) Benzene	6.87	78	4802	0.030 ppbv	97
37) 1,2-Dichloroethane	6.29	62	3752	0.038 ppbv #	85
38) Trichloroethene	7.82	130	34208	0.554 ppbv	86
39) 1,2-Dichloropropane	7.16	63	251521	3.939 ppbv #	24
52) Tetrachloroethene	11.23	164	161027	2.843 ppbv	92
53) Toluene	9.80	91	12766	0.076 ppbv	93
57) Chlorobenzene	12.16	112	4887	0.035 ppbv #	50
60) o-Xylene	13.70	91	7772	0.041 ppbv #	41
80) Naphthalene, 2-methyl-	25.01	142	3317	0.076 ppbv #	57

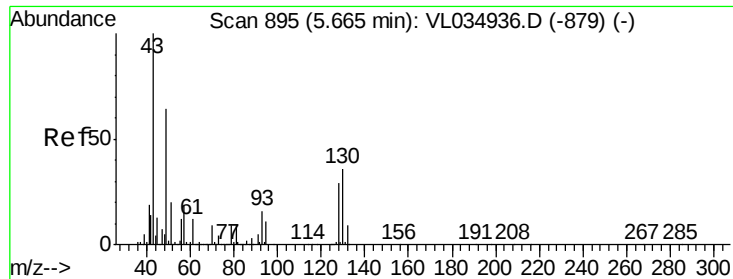
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

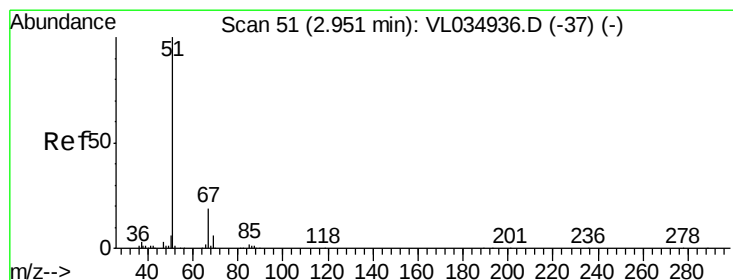
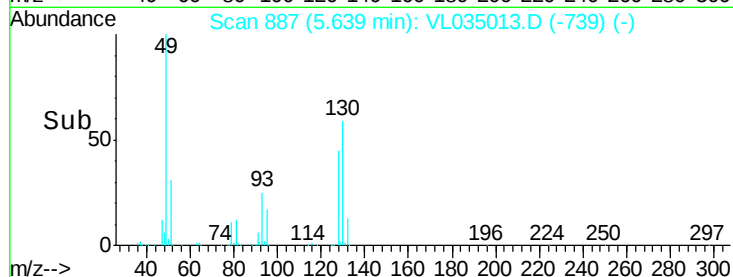
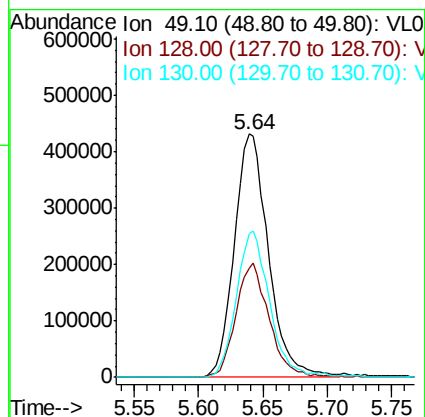
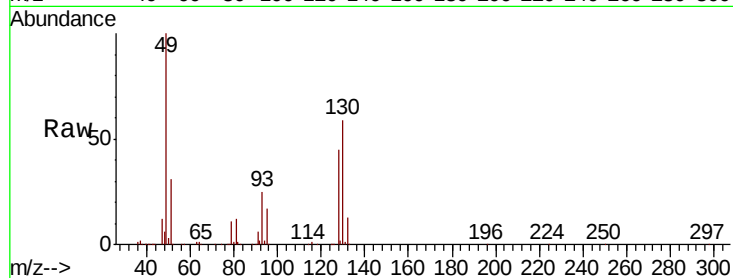
Tot Ion: 49 Resp: 794681

Ion Ratio Lower Upper

49 100

128 46.2 22.1 66.5

130 59.1 29.1 87.3



#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL035013.D

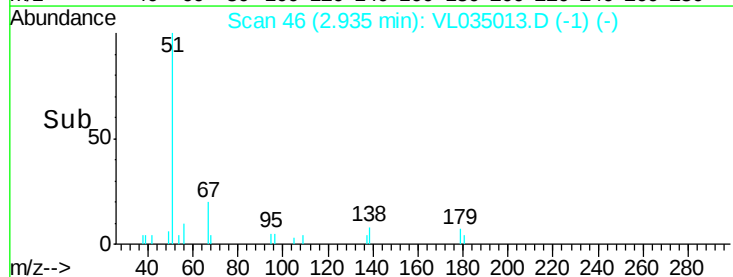
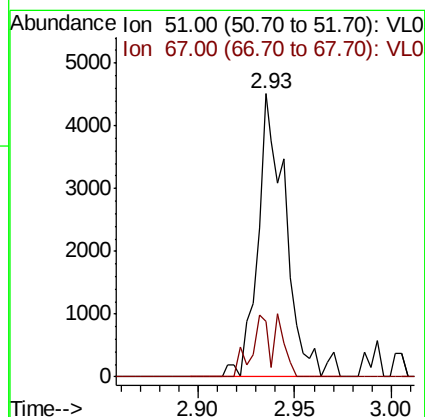
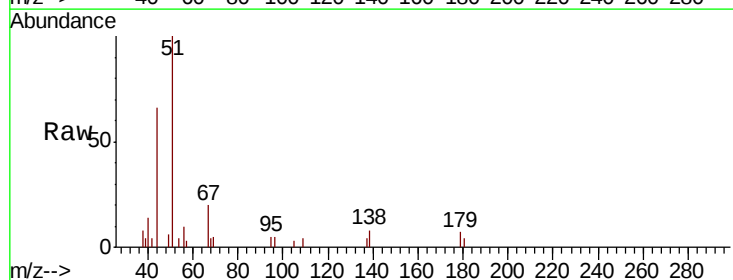
Acq: 13 May 2020 8:39

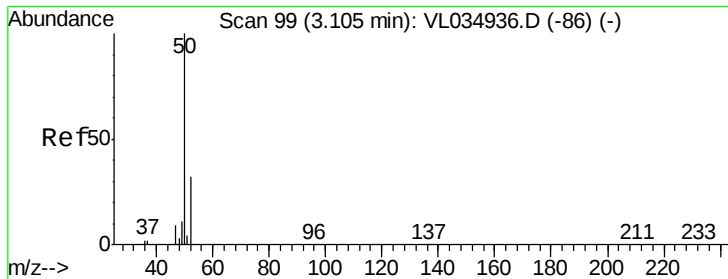
Tgt Ion: 51 Resp: 4587

Ion Ratio Lower Upper

51 100

67 20.3 15.0 22.6





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

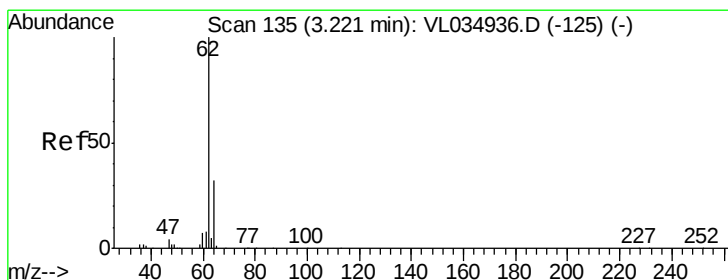
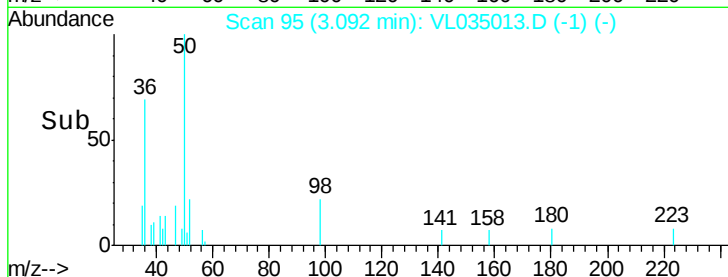
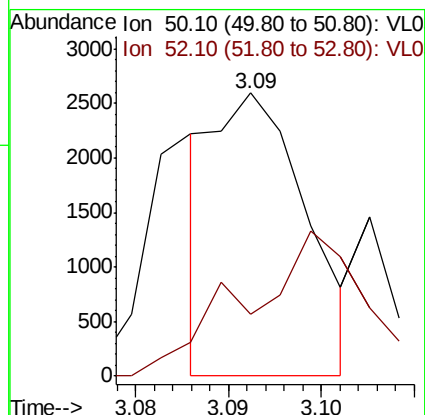
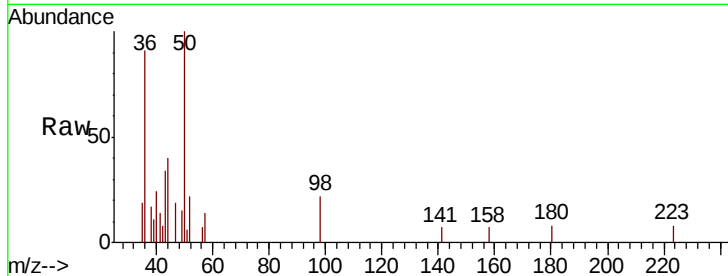
VIBLK

Tot Ion: 50 Resp: 1790

Ion Ratio Lower Upper

50 100

52 13.5 25.4 38.2#



#5

Vinyl Chloride

Concen: 0.033 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.01 min

Lab File: VL035013.D

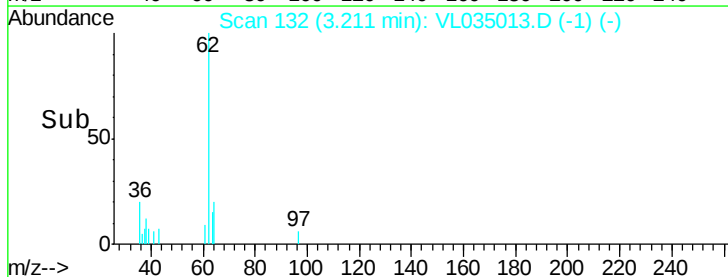
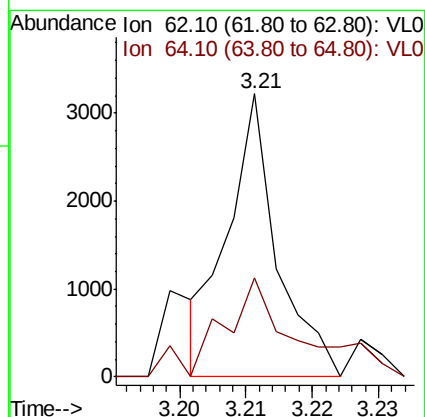
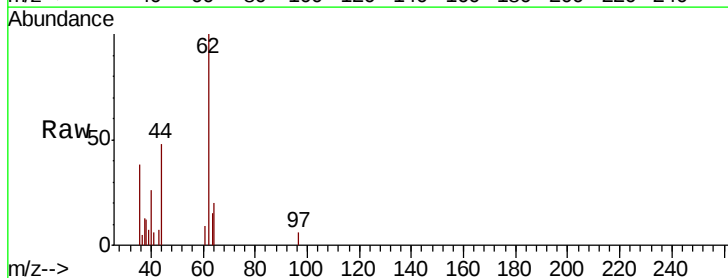
Acq: 13 May 2020 8:39

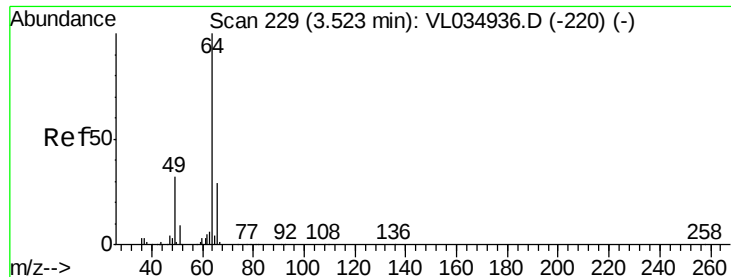
Tgt Ion: 62 Resp: 1664

Ion Ratio Lower Upper

62 100

64 35.0 25.7 38.5





#7

Chloroethane

Concen: 0.032 ppbv

RT: 3.51 min Scan# 225

Delta R.T. -0.01 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

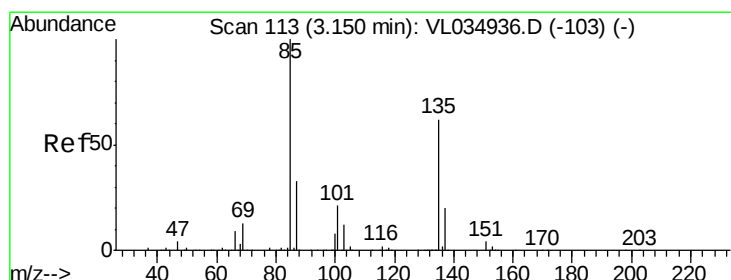
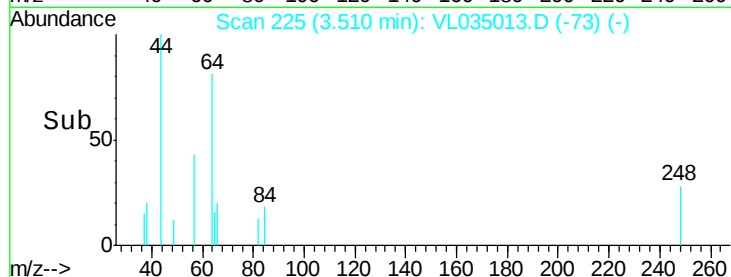
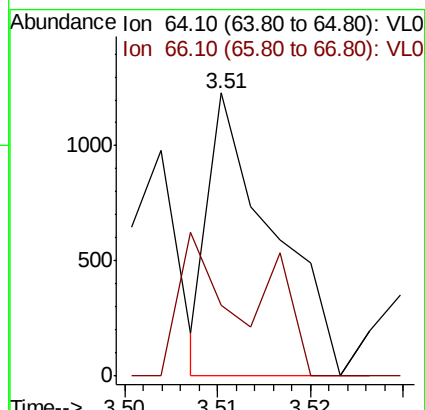
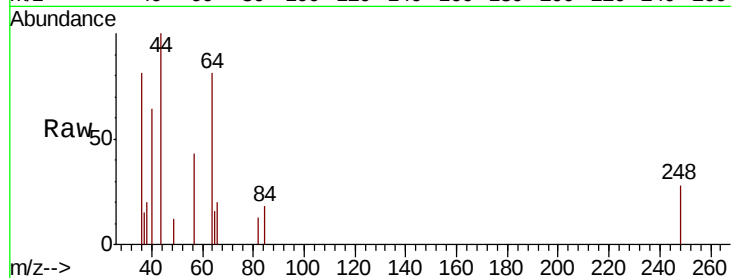
VIBLK

Tot Ion: 64 Resp: 588

Ion Ratio Lower Upper

64 100

66 24.9 23.2 34.8



#8

Dichlorotetrafluoroethane

Concen: 0.044 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL035013.D

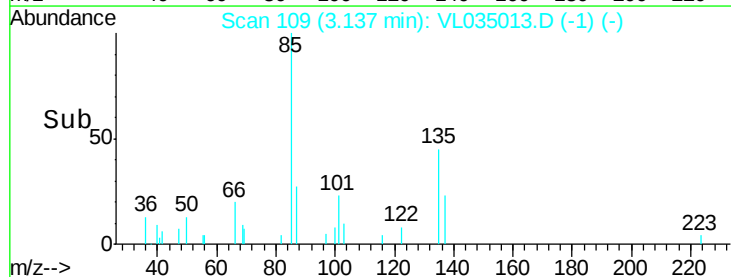
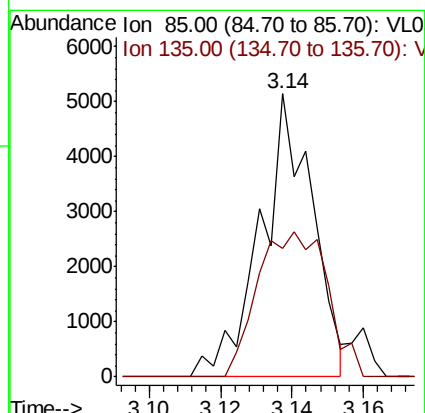
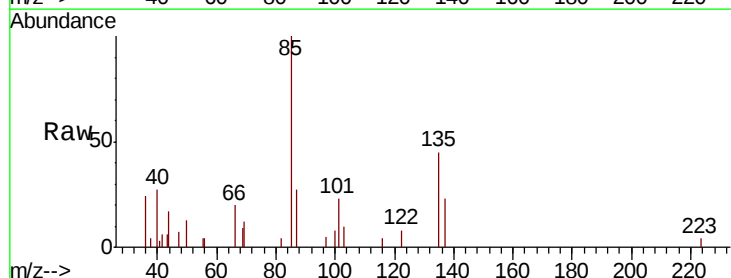
Acq: 13 May 2020 8:39

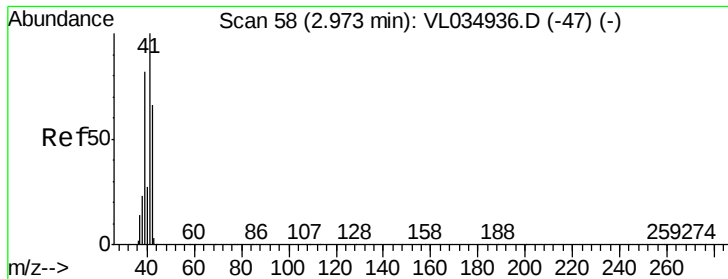
Tgt Ion: 85 Resp: 5155

Ion Ratio Lower Upper

85 100

135 68.8 50.9 76.3





#9

Propene

Concen: 0.104 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.01 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

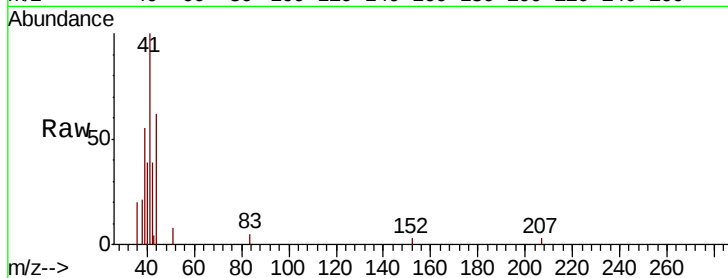
VIBLK

Tot Ion: 41 Resp: 4094

Ion Ratio Lower Upper

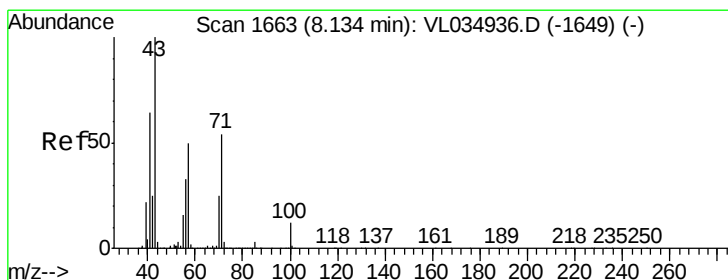
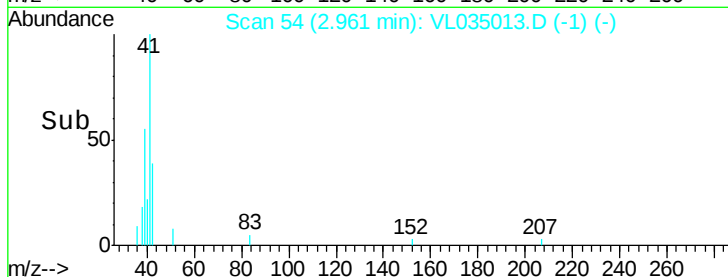
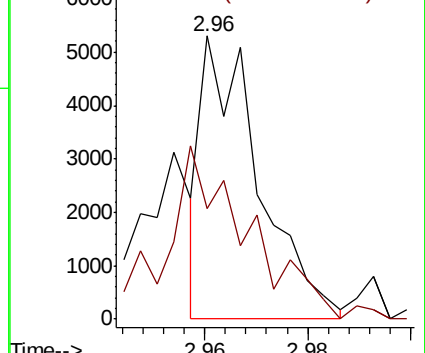
41 100

42 87.5 54.5 81.7#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.031 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.03 min

Lab File: VL035013.D

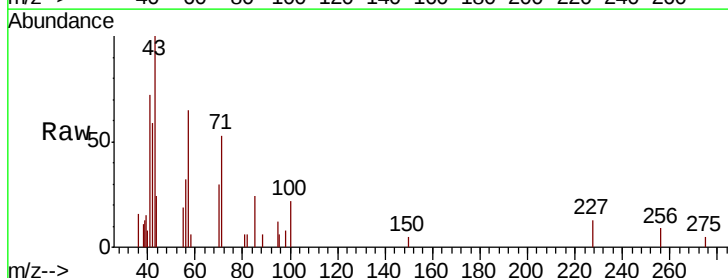
Acq: 13 May 2020 8:39

Tgt Ion: 43 Resp: 3091

Ion Ratio Lower Upper

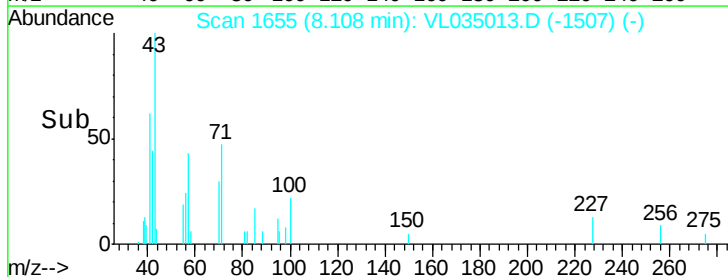
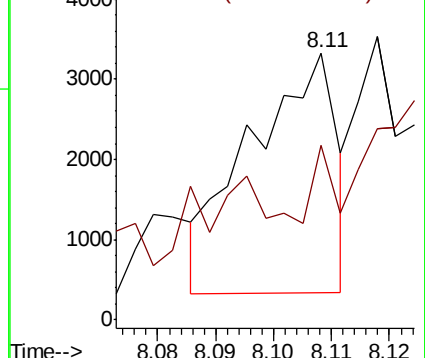
43 100

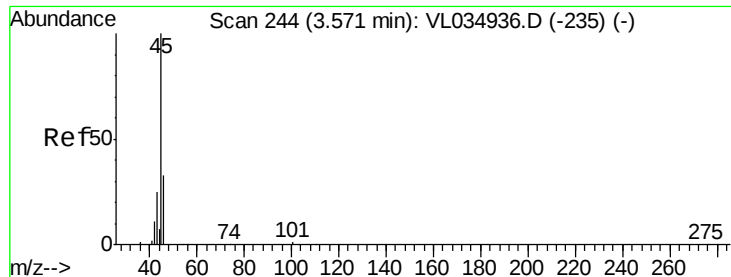
57 0.0 41.1 61.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#13

Ethanol

Concen: 0.084 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

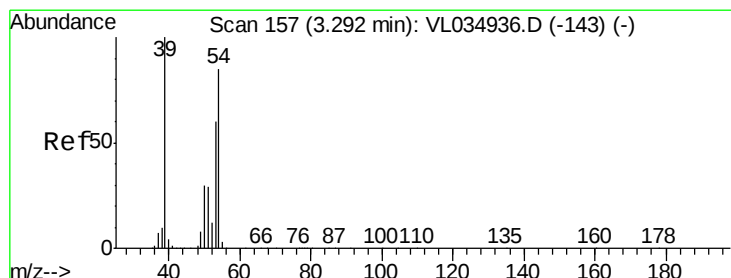
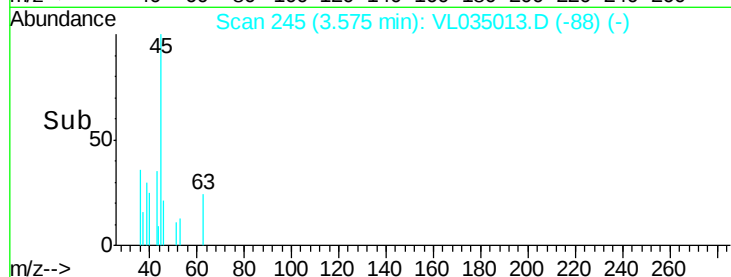
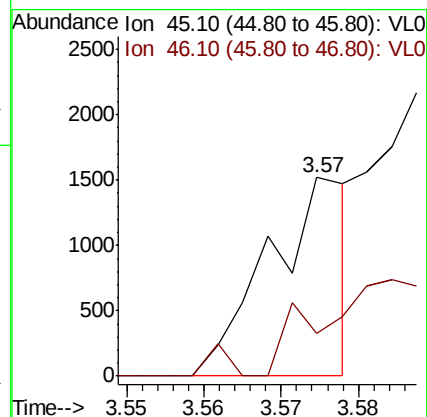
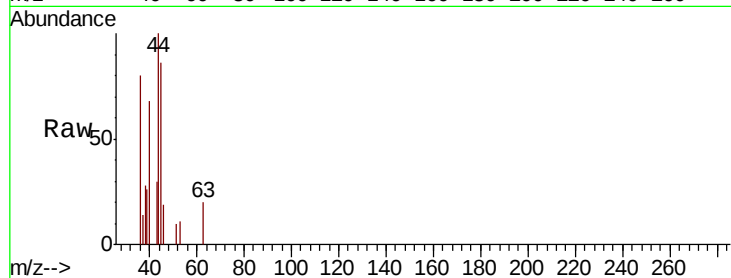
VIBLK

Tot Ion: 45 Resp: 1093

Ion Ratio Lower Upper

45 100

46 0.0 14.3 57.3#



#16

1,3-Butadiene

Concen: 0.053 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.01 min

Lab File: VL035013.D

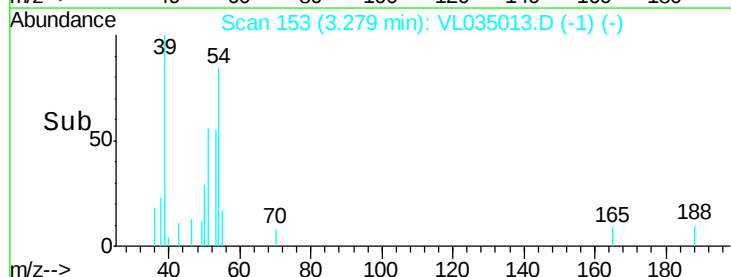
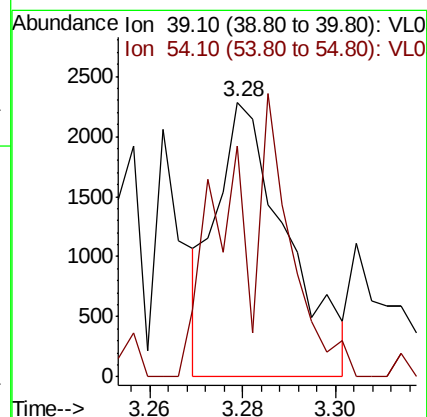
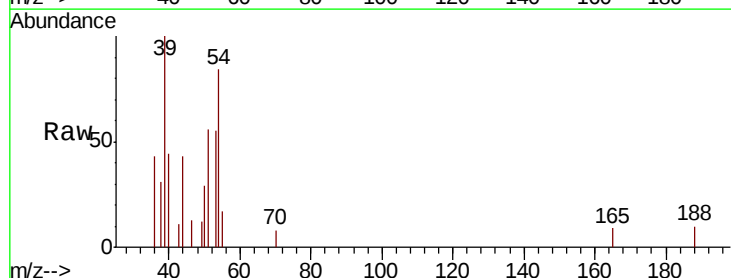
Acq: 13 May 2020 8:39

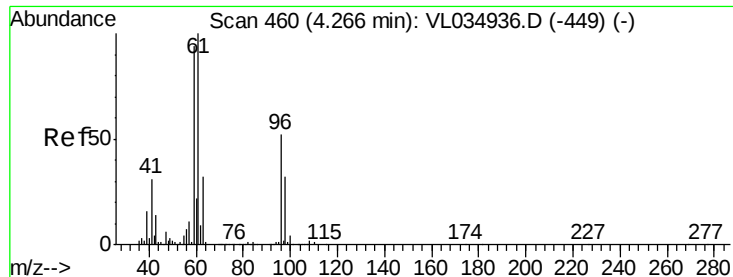
Tgt Ion: 39 Resp: 2412

Ion Ratio Lower Upper

39 100

54 94.8 66.6 100.0





#18

1,1-Dichloroethene

Concen: 0.041 ppbv

RT: 4.25 min Scan# 455

Delta R.T. -0.02 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

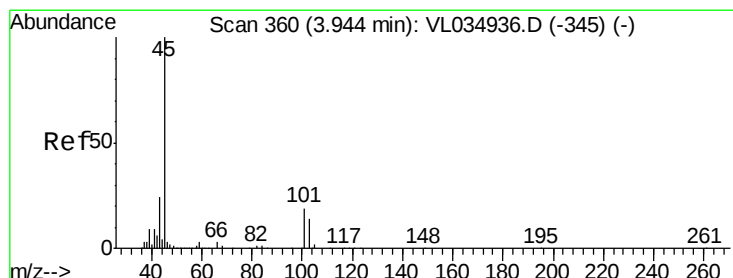
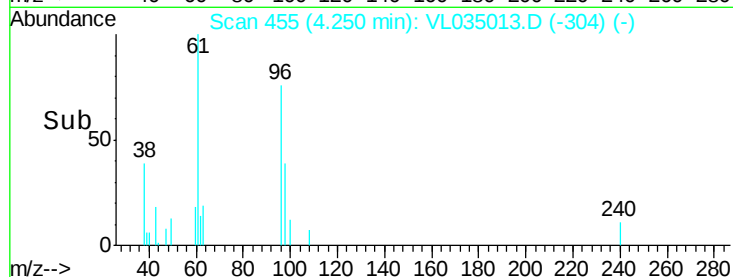
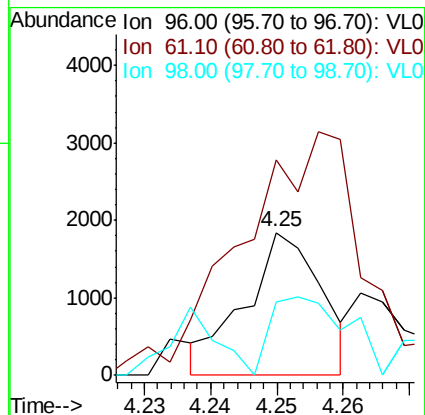
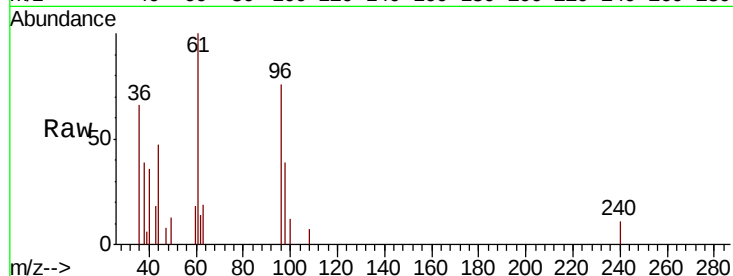
Tot Ion: 96 Resp: 1467

Ion Ratio Lower Upper

96 100

61 144.8 152.4 228.6#

98 26.0 48.8 73.2#



#19

Isopropyl Alcohol

Concen: 0.042 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL035013.D

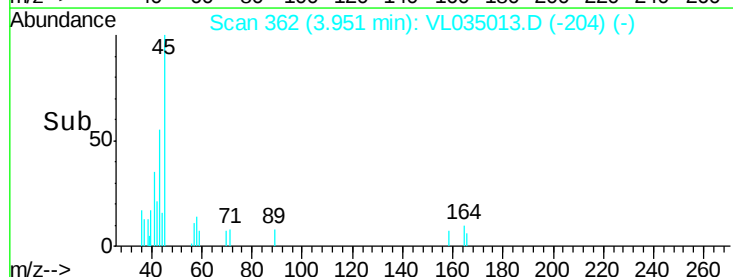
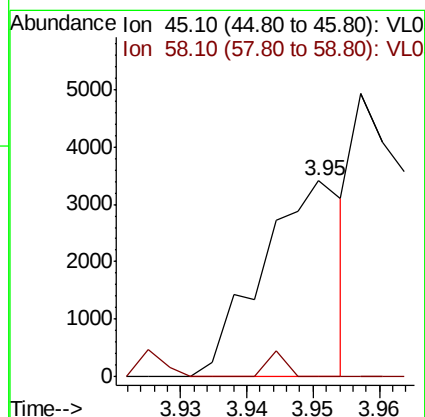
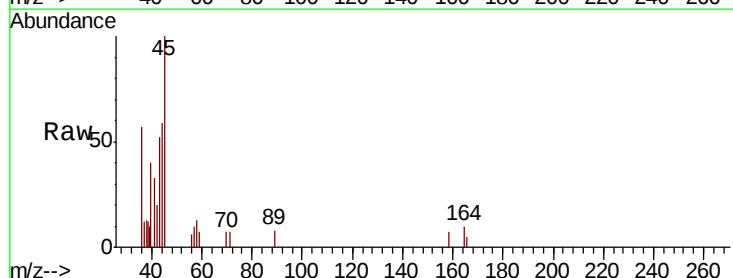
Acq: 13 May 2020 8:39

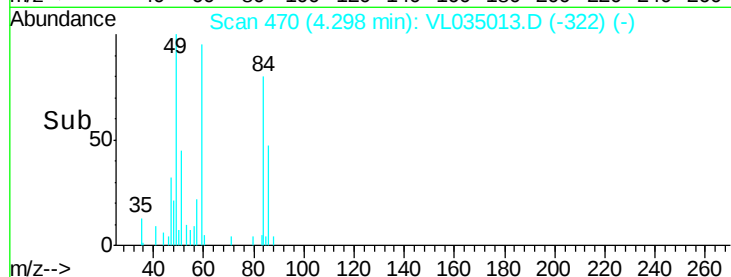
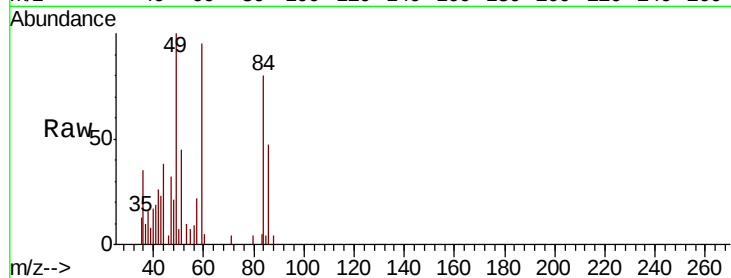
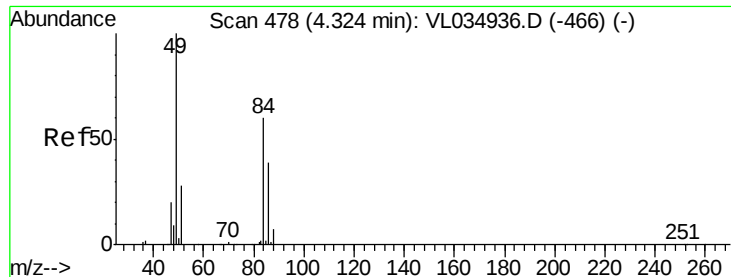
Tgt Ion: 45 Resp: 2920

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

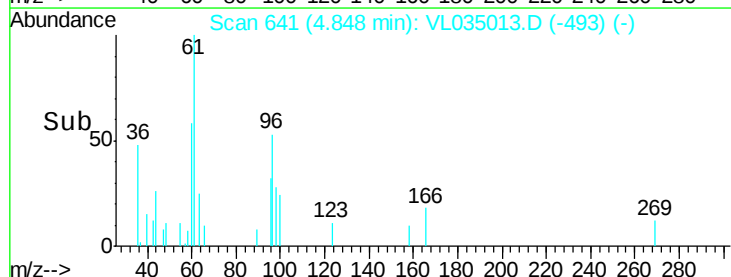
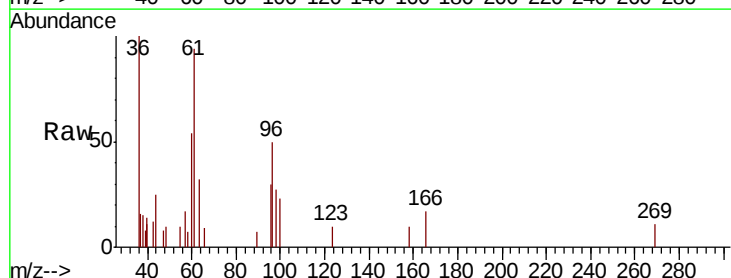
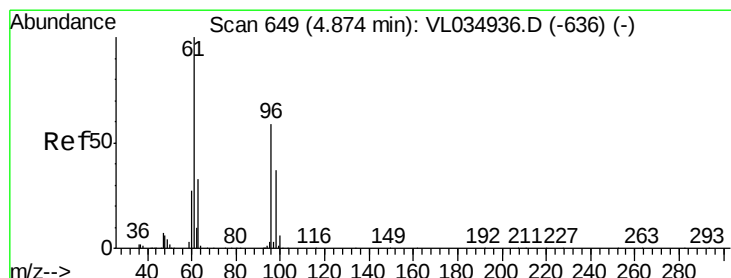
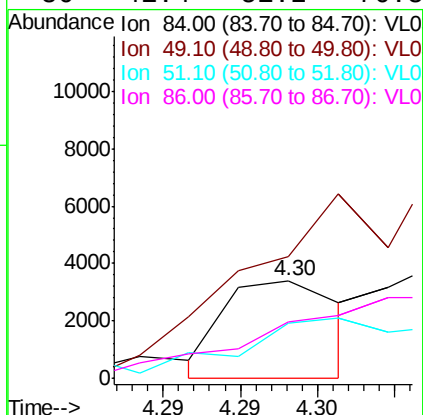




#20
Methvlene Chloride
Concen: 0.051 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.03 min
Lab File: VL035013.D
Acq: 13 May 2020 8:39

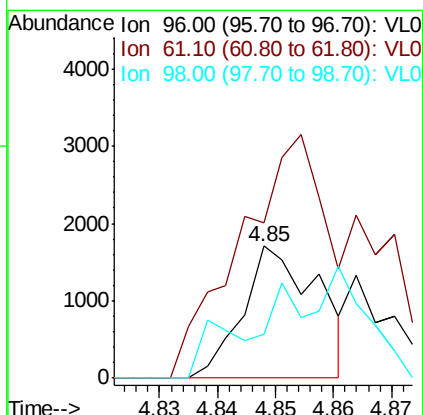
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

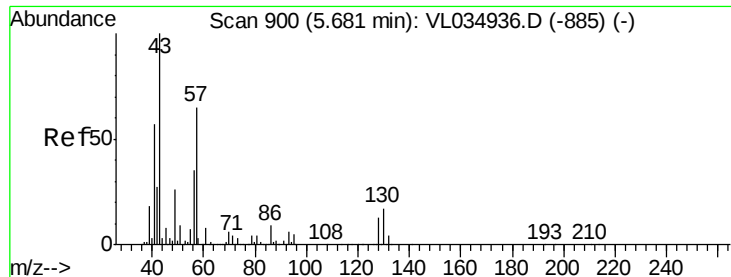
Tot Ion: 84 Resp: 1773
Ion Ratio Lower Upper
84 100
49 76.7 132.5 198.7#
51 37.4 38.4 57.6#
86 41.4 51.2 76.8#



#22
trans-1,2-Dichloroethene
Concen: 0.043 ppbv
RT: 4.85 min Scan# 641
Delta R.T. -0.03 min
Lab File: VL035013.D
Acq: 13 May 2020 8:39

Tgt Ion: 96 Resp: 1534
Ion Ratio Lower Upper
96 100
61 79.0 135.3 202.9#
98 33.6 50.4 75.6#

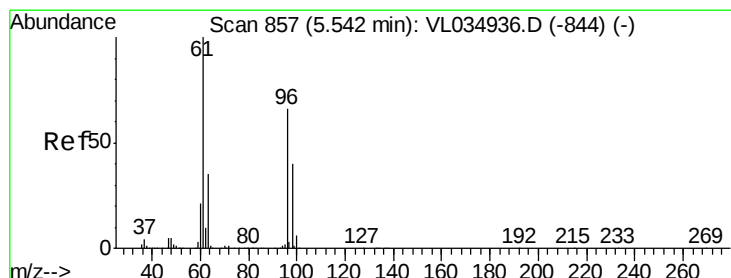
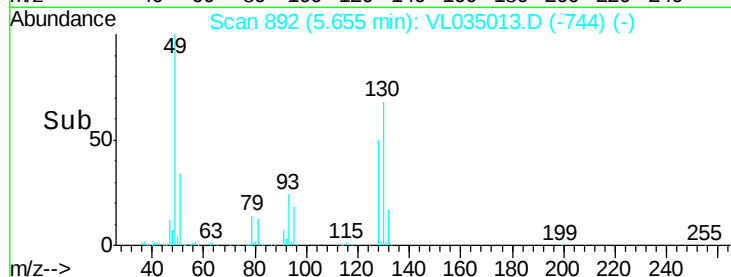
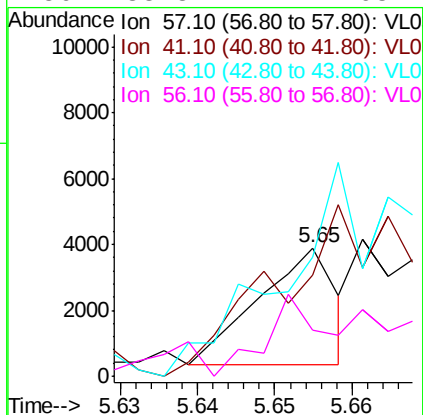
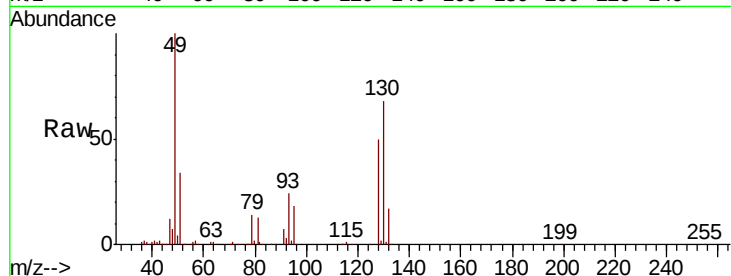




#26
Hexane
Concen: 0.032 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035013.D
Acq: 13 May 2020 8:39

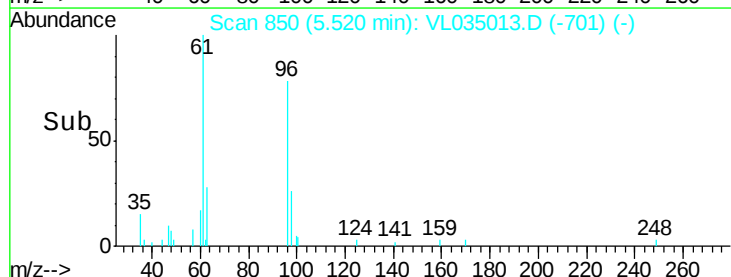
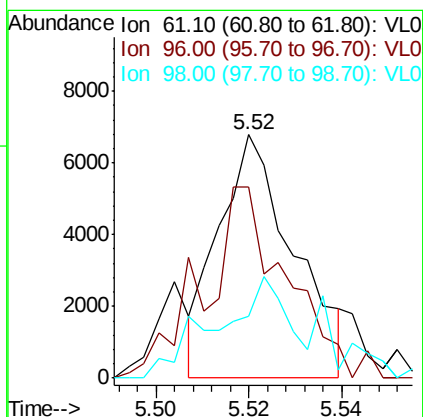
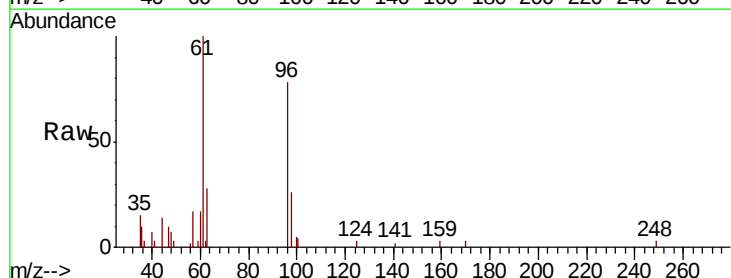
Instrument :
MSVOA_L
ClientSampleID :
VIBLK

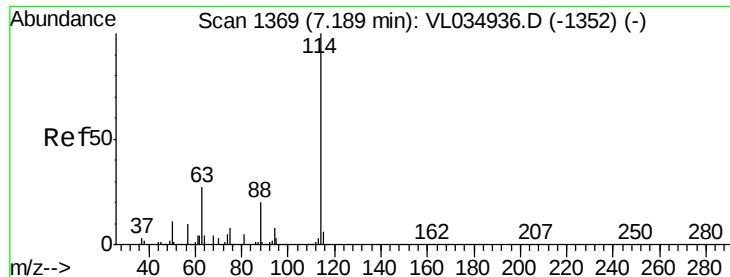
Tot Ion: 57 Resp: 2469
Ion Ratio Lower Upper
57 100
41 0.0 72.7 109.1#
43 0.0 182.1 273.1#
56 138.8 42.2 63.2#



#31
cis-1,2-Dichloroethene
Concen: 0.103 ppbv
RT: 5.52 min Scan# 850
Delta R.T. -0.02 min
Lab File: VL035013.D
Acq: 13 May 2020 8:39

Tgt Ion: 61 Resp: 7686
Ion Ratio Lower Upper
61 100
96 86.6 53.0 79.6#
98 30.1 32.2 48.2#

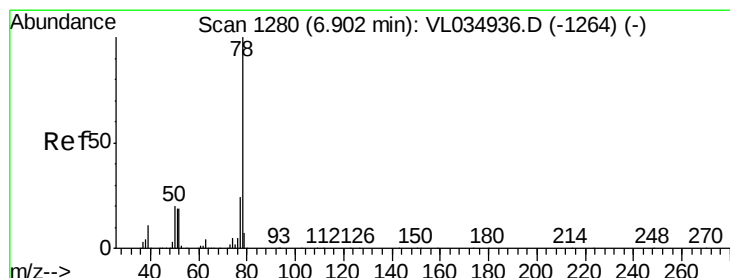
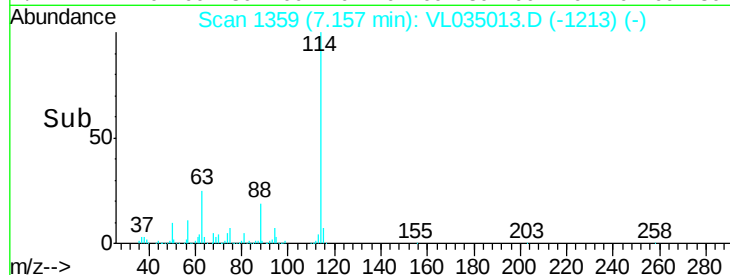
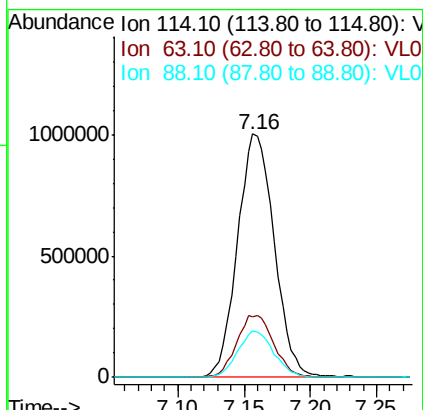
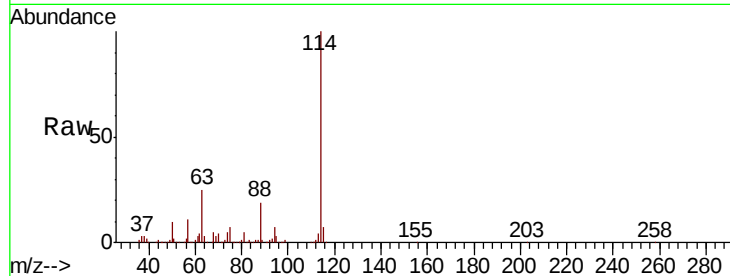




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.03 min
 Lab File: VL035013.D
 Acq: 13 May 2020 8:39

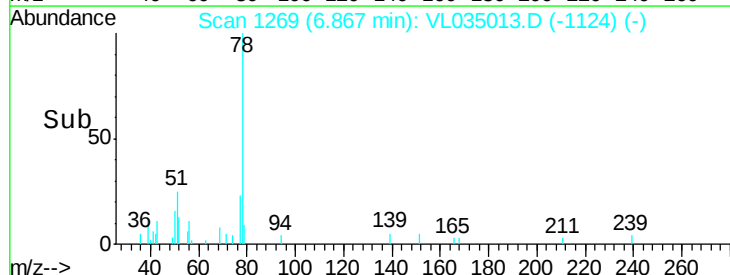
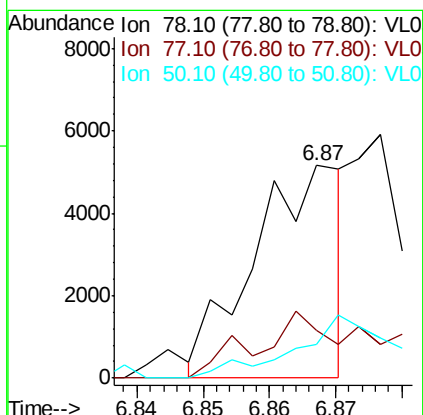
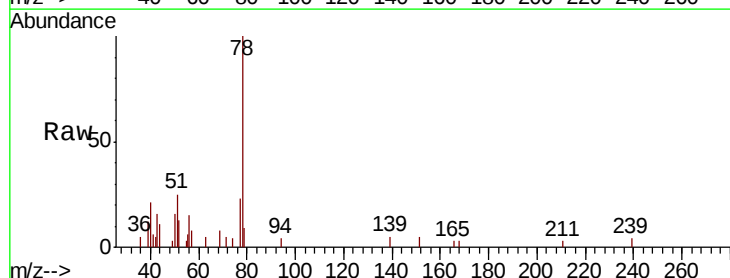
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

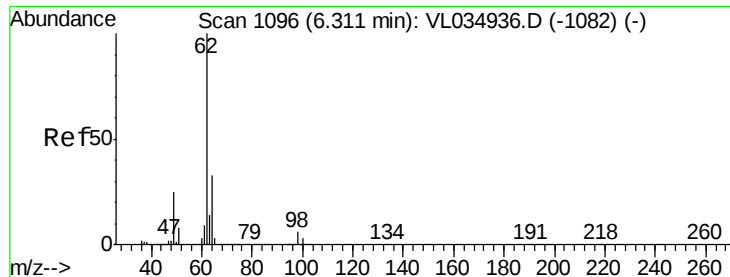
Tot Ion:114 Resp: 1931906
 Ion Ratio Lower Upper
 114 100
 63 25.8 22.2 33.4
 88 18.7 15.5 23.3



#36
 Benzene
 Concen: 0.030 ppbv
 RT: 6.87 min Scan# 1269
 Delta R.T. -0.04 min
 Lab File: VL035013.D
 Acq: 13 May 2020 8:39

Tgt Ion: 78 Resp: 4802
 Ion Ratio Lower Upper
 78 100
 77 24.6 19.0 28.6
 50 17.2 15.8 23.8

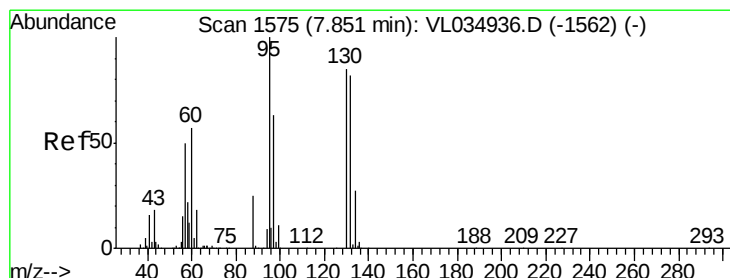
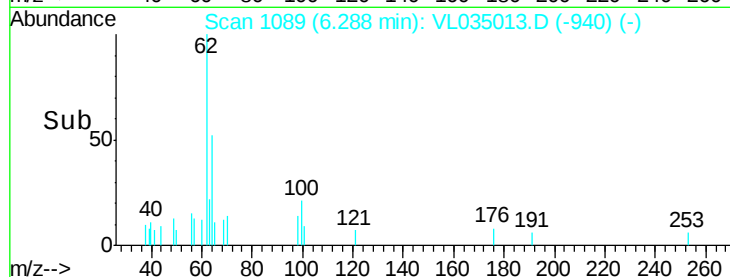
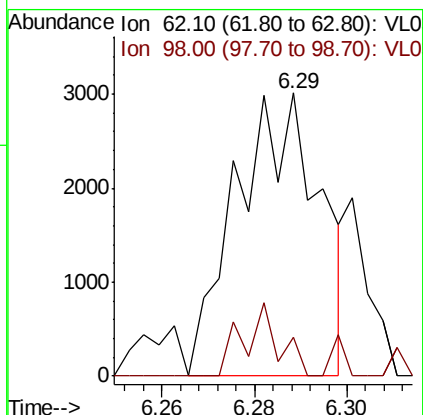
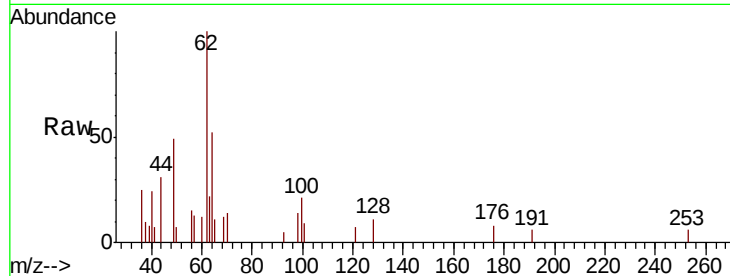




#37
 1,2-Dichloroethane
 Concen: 0.038 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.02 min
 Lab File: VL035013.D
 Acq: 13 May 2020 8:39

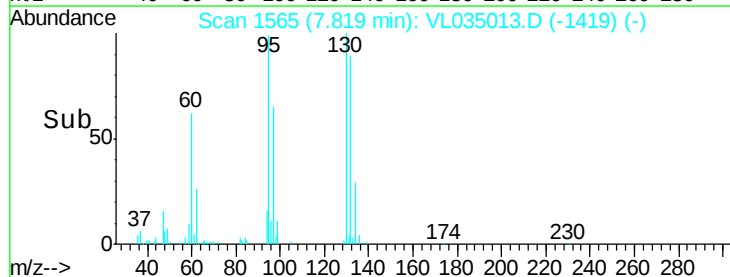
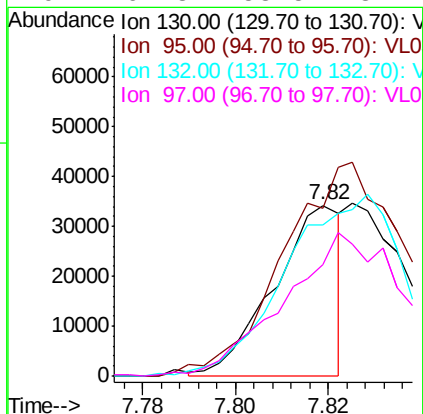
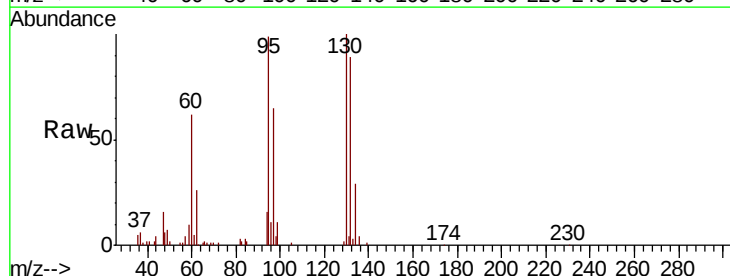
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

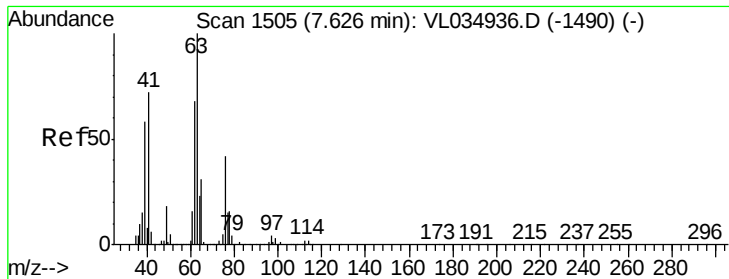
Tot Ion: 62 Resp: 3752
 Ion Ratio Lower Upper
 62 100
 98 11.1 4.8 7.2#



#38
 Trichloroethene
 Concen: 0.554 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.03 min
 Lab File: VL035013.D
 Acq: 13 May 2020 8:39

Tgt Ion: 130 Resp: 34208
 Ion Ratio Lower Upper
 130 100
 95 93.5 93.4 140.0
 132 88.1 76.4 114.6
 97 64.8 58.5 87.7





#39

1,2-Dichloropropane

Concen: 3.939 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.47 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

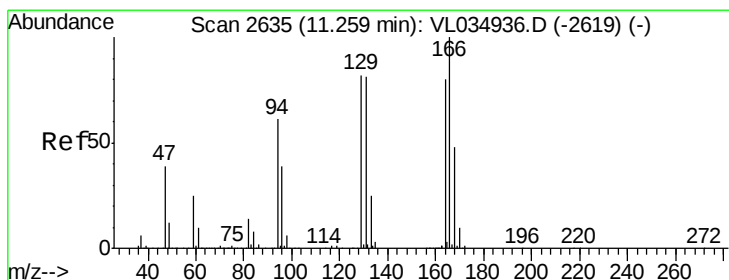
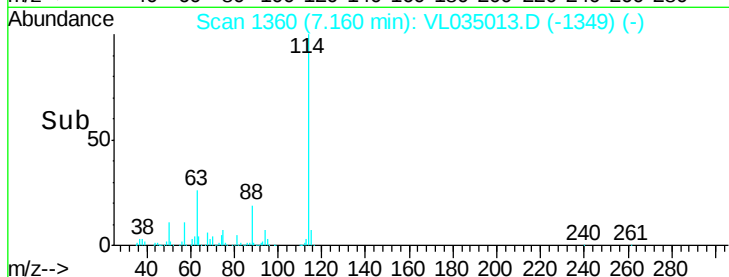
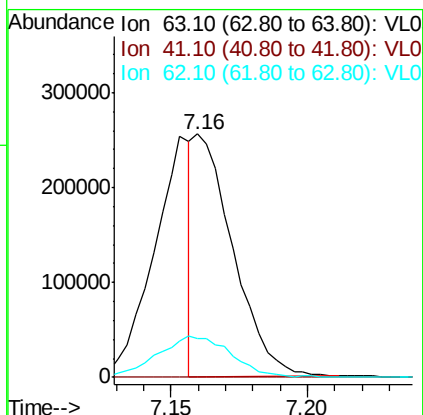
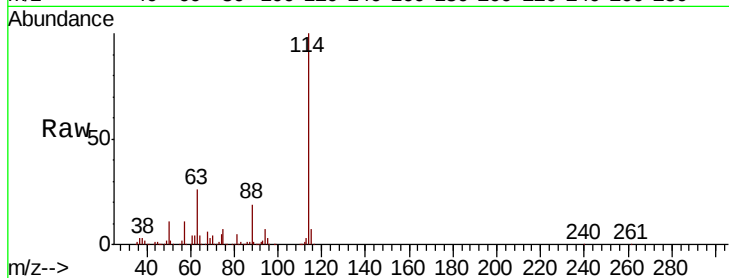
Tot Ion: 63 Resp: 251521

Ion Ratio Lower Upper

63 100

41 0.3 57.8 86.8#

62 15.7 54.2 81.2#



#52

Tetrachloroethene

Concen: 2.843 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.03 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Tgt Ion: 164 Resp: 161027

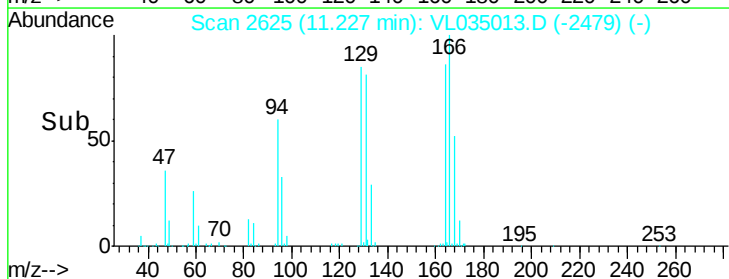
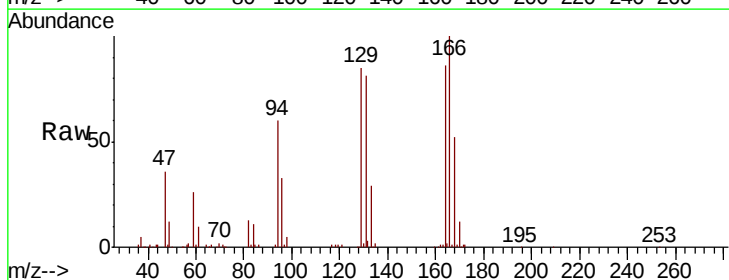
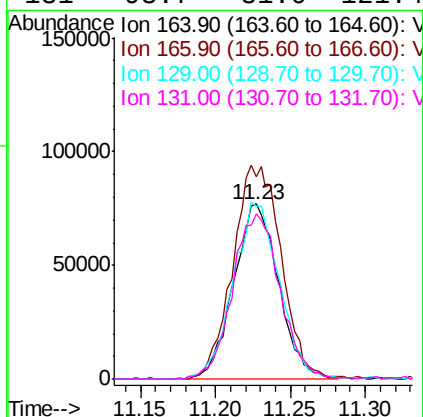
Ion Ratio Lower Upper

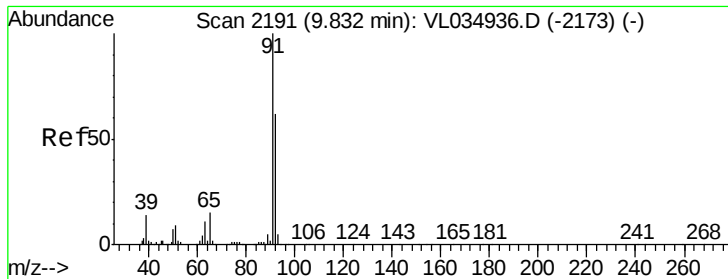
164 100

166 114.7 100.7 151.1

129 98.2 83.0 124.4

131 93.7 81.0 121.4





#53

Toluene

Concen: 0.076 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.03 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

Instrument :

MSVOA_L

ClientSampleId :

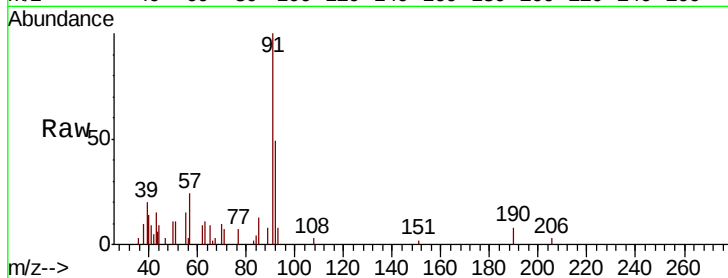
VIBLK

Tot Ion: 91 Resp: 12766

Ion Ratio Lower Upper

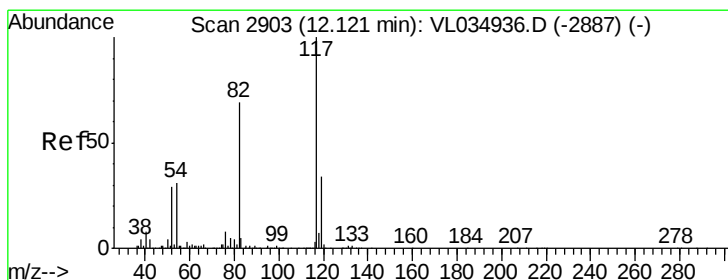
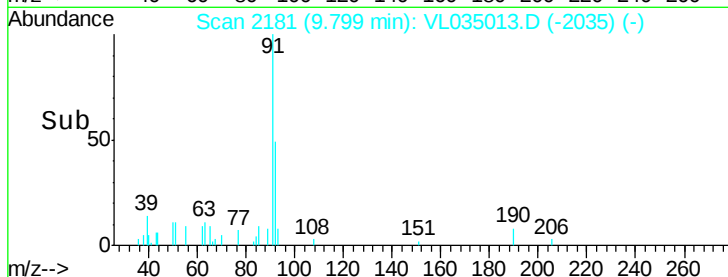
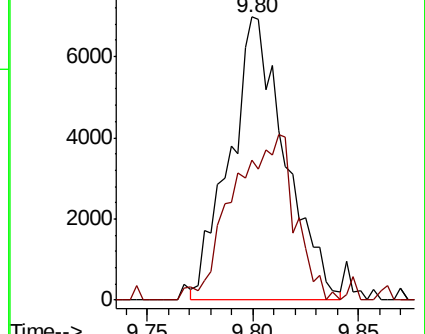
91 100

92 66.3 48.6 73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.03 min

Lab File: VL035013.D

Acq: 13 May 2020 8:39

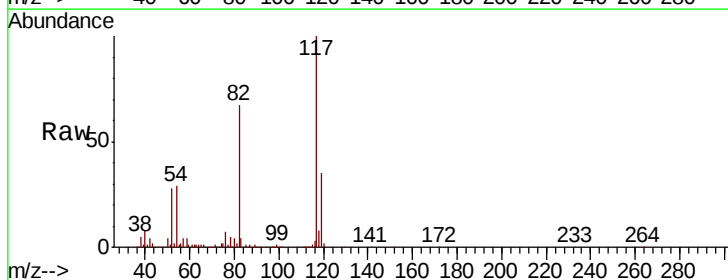
Tgt Ion: 117 Resp: 1781495

Ion Ratio Lower Upper

117 100

82 66.5 53.1 79.7

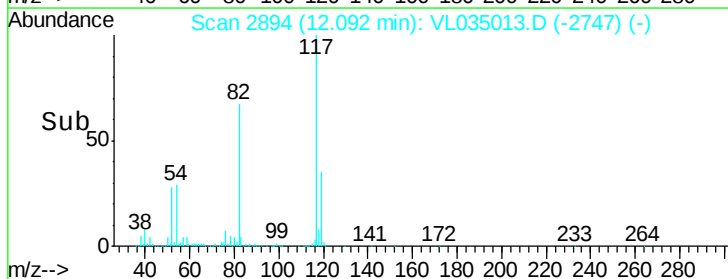
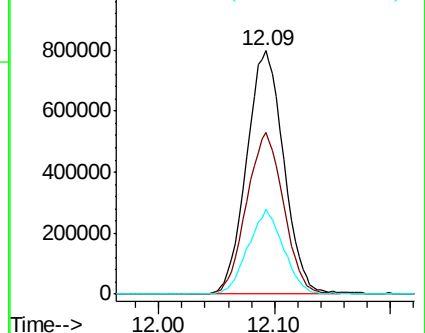
119 33.3 26.7 40.1

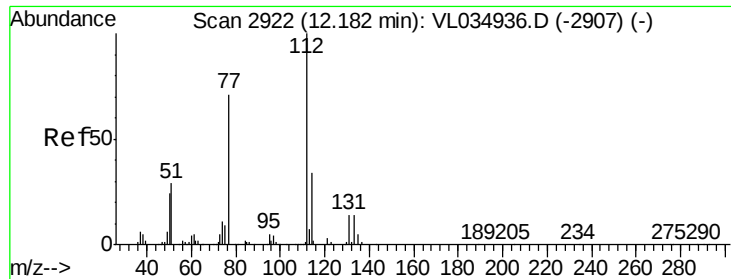


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

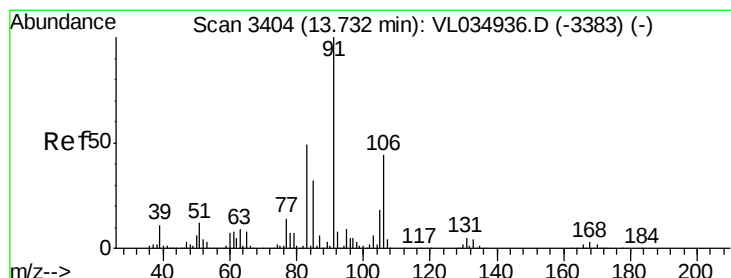
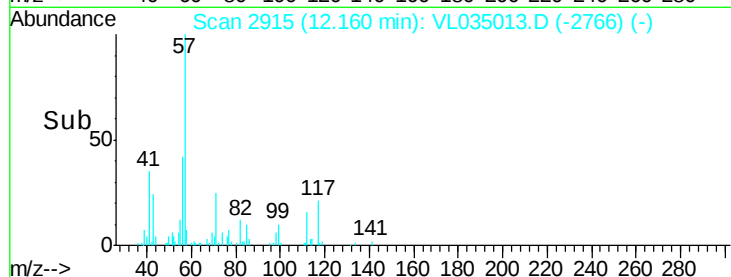
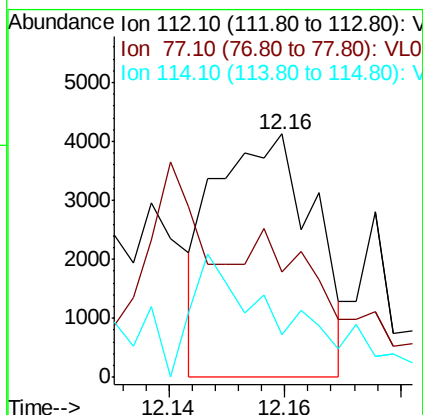
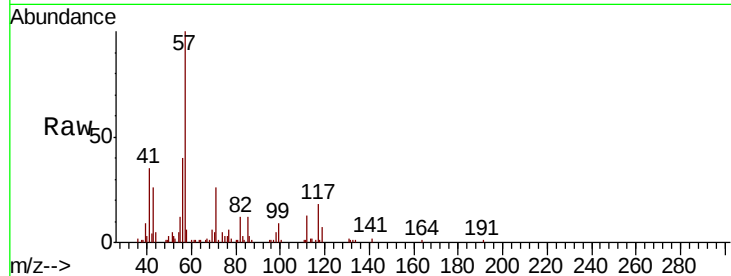




#57
Chlorobenzene
Concen: 0.035 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. -0.02 min
Lab File: VL035013.D
Acq: 13 May 2020 8:39

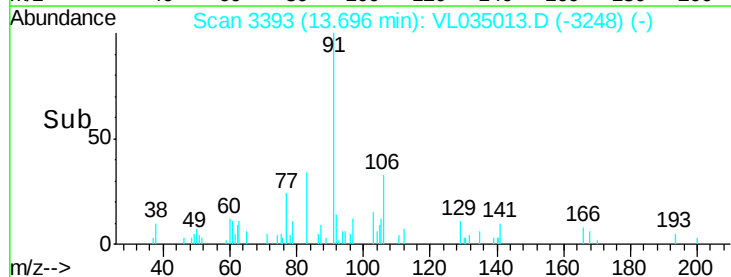
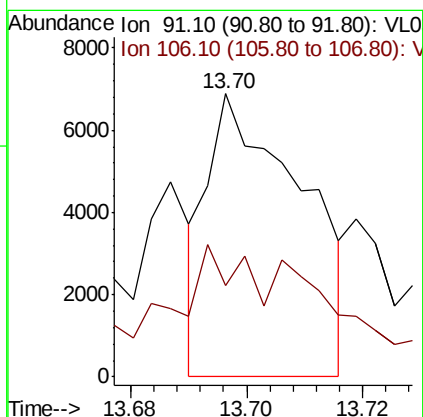
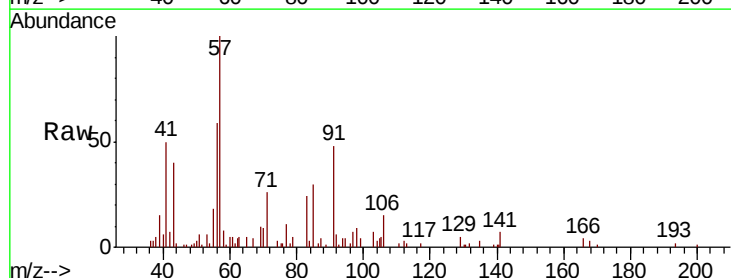
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

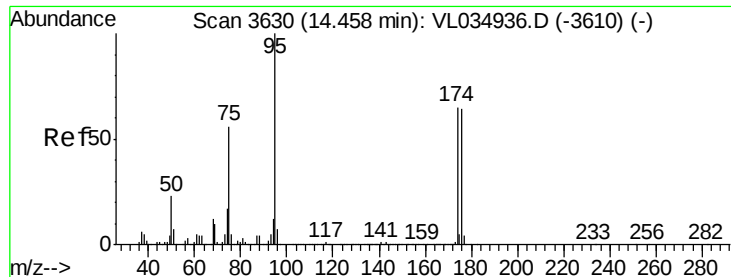
Tot Ion:112 Resp: 4887
Ion Ratio Lower Upper
112 100
77 28.3 57.0 85.6#
114 7.9 30.8 37.6#



#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.04 min
Lab File: VL035013.D
Acq: 13 May 2020 8:39

Tgt Ion: 91 Resp: 7772
Ion Ratio Lower Upper
91 100
106 81.4 21.9 65.5#

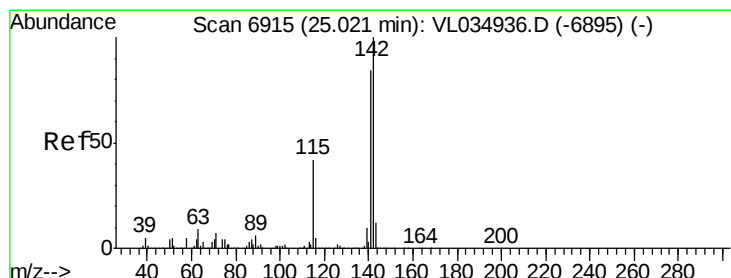
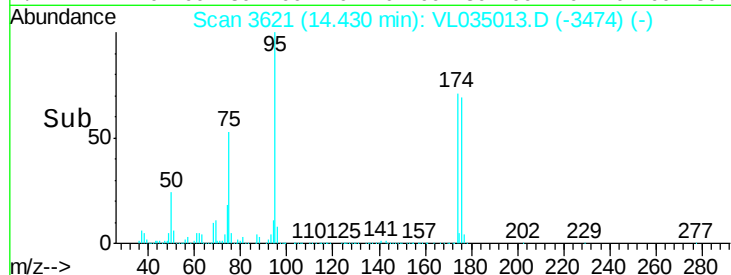
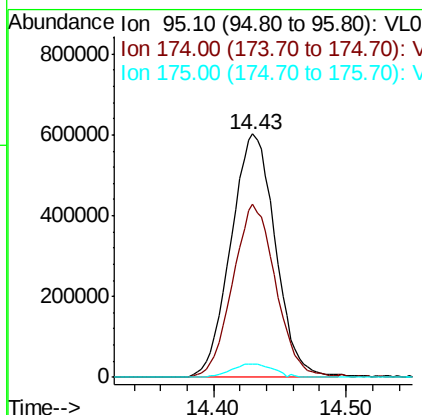
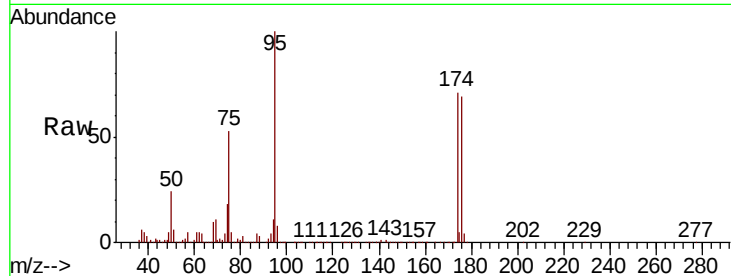




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.654 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.03 min
 Lab File: VL035013.D
 Acq: 13 May 2020 8:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tot Ion: 95 Resp: 1392117
 Ion Ratio Lower Upper
 95 100
 174 70.3 51.5 77.3
 175 5.2 3.8 5.8



#80
 Naphthalene, 2-methyl-
 Concen: 0.076 ppbv
 RT: 25.01 min Scan# 6913
 Delta R.T. -0.01 min
 Lab File: VL035013.D
 Acq: 13 May 2020 8:39

Tgt Ion: 142 Resp: 3317
 Ion Ratio Lower Upper
 142 100
 141 53.0 68.6 102.8#
 115 5.2 33.9 50.9#

