

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062019\
 Data File : VX010366.D
 Acq On : 20 Jun 2019 18:45
 Operator : JC/SP
 Sample : K3469-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 01:24:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	308126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	469609	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	421159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	200771	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	141322	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
35) Dibromofluoromethane	5.50	113	144187	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
50) Toluene-d8	8.71	98	547350	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.13	95	186819	47.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.14%	

Target Compounds

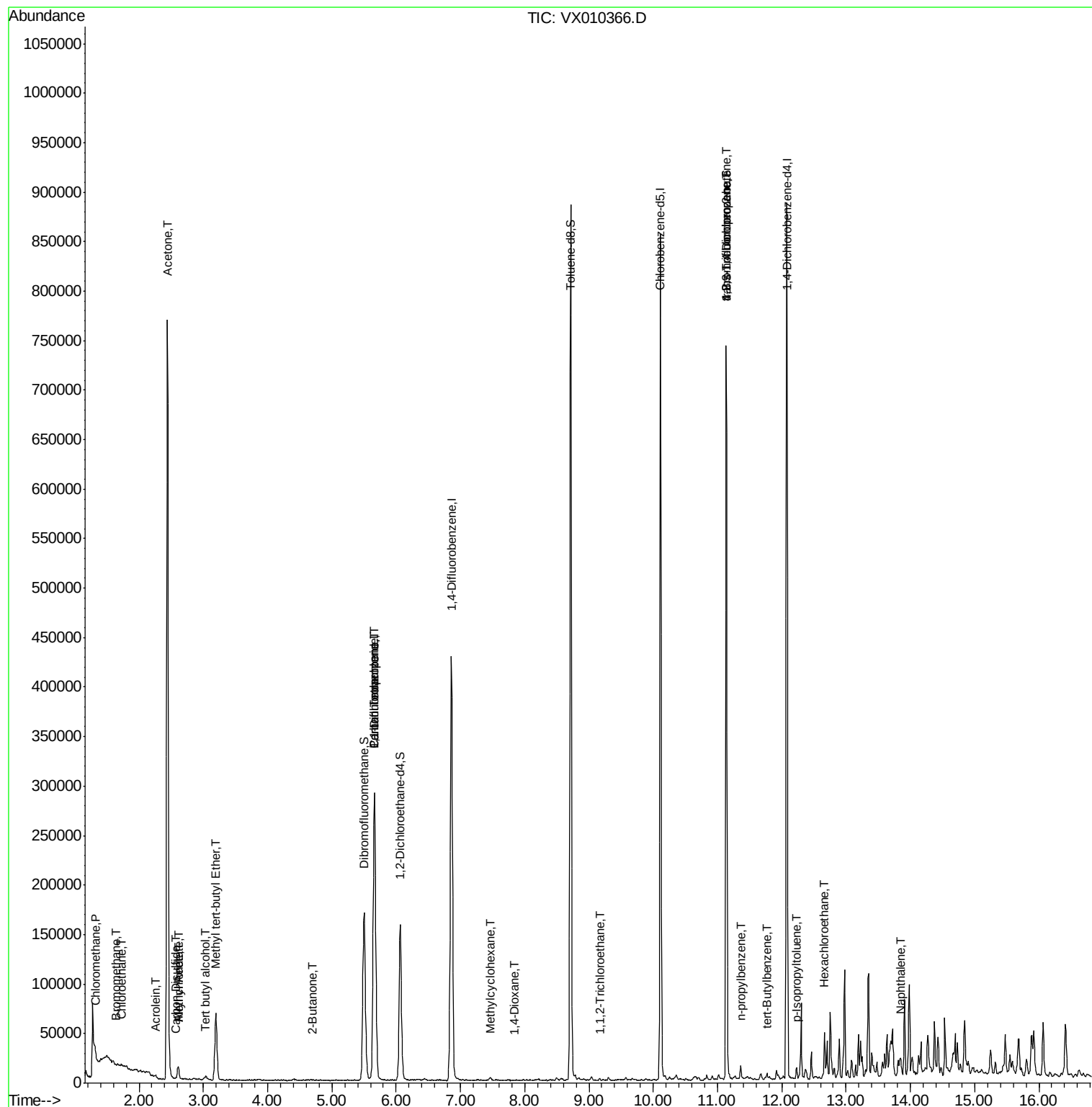
						Qvalue
3) Chloromethane	1.32	50	799	0.320	ug/l #	53
5) Bromomethane	1.65	94	554	0.416	ug/l #	55
6) Chloroethane	1.72	64	19159	11.886	ug/l #	51
11) Tert butyl alcohol	3.04	59	4899	6.481	ug/l	96
13) Acrolein	2.27	56	101	0.201	ug/l #	1
14) Allyl chloride	2.60	41	1249	0.329	ug/l #	23
16) Acetone	2.44	43	780415	539.008	ug/l	99
17) Carbon Disulfide	2.57	76	1601	0.223	ug/l #	66
18) Methyl Acetate	2.61	43	3552	1.231	ug/l #	48
19) Methyl tert-butyl Ether	3.20	73	81362	9.684	ug/l	98
25) 2-Butanone	4.69	43	523	0.246	ug/l #	84
36) 1,1-Dichloropropene	5.66	75	18999	5.091	ug/l #	47
38) Carbon Tetrachloride	5.66	117	26944	6.668	ug/l #	17
39) Methylcyclohexane	7.46	83	1388	0.283	ug/l	91
49) 1,4-Dioxane	7.85	88	23	0.270	ug/l #	1
55) 1,1,2-Trichloroethane	9.16	97	684	0.217	ug/l #	15
76) 1,2,3-Trichloropropane	11.13	75	88406	24.164	ug/l #	33
78) n-propylbenzene	11.36	91	8624	0.577	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	88406	56.372	ug/l #	16
83) tert-Butylbenzene	11.77	119	2574	0.229	ug/l	83
86) p-Isopropyltoluene	12.23	119	5097	0.417	ug/l	97
90) Hexachloroethane	12.66	117	1923	0.909	ug/l #	5
95) Naphthalene	13.83	128	10843	0.772	ug/l #	87

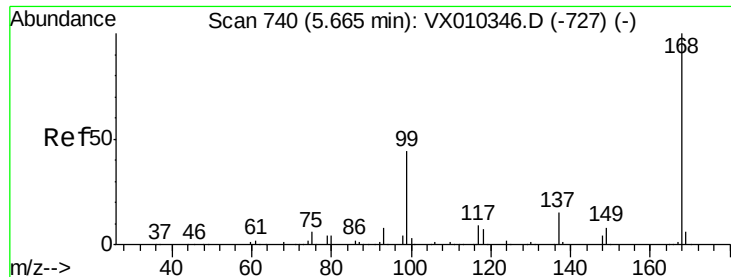
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

Instrument :

MSVOA_X

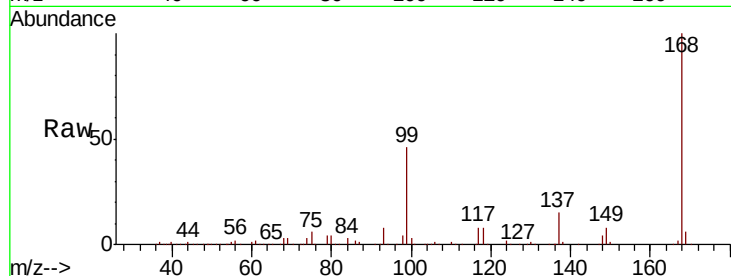
ClientSampleId :

Tot Ion:168 Resp: 308126

Ion Ratio Lower Upper

168 100

99 46.4 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

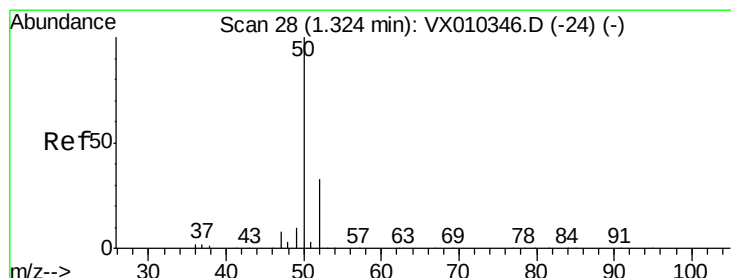
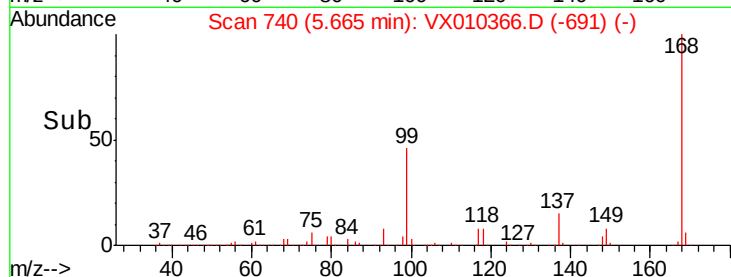
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.320 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010366.D

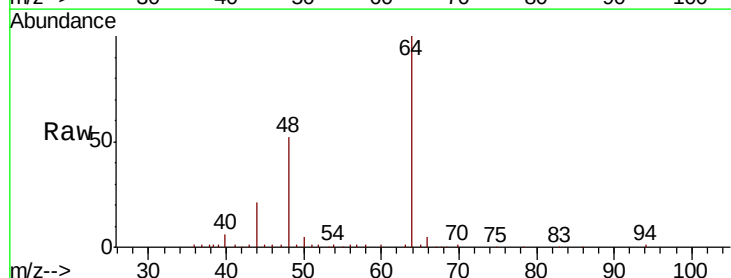
Acq: 20 Jun 2019 18:45

Tgt Ion: 50 Resp: 799

Ion Ratio Lower Upper

50 100

52 6.4 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

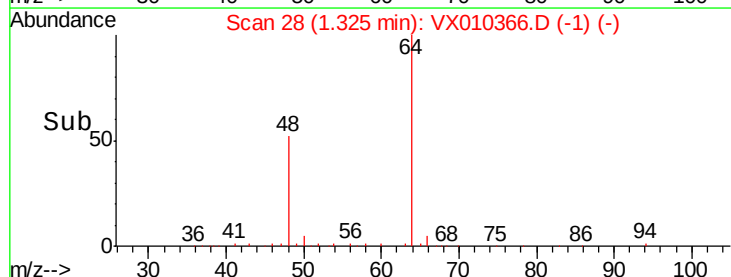
600

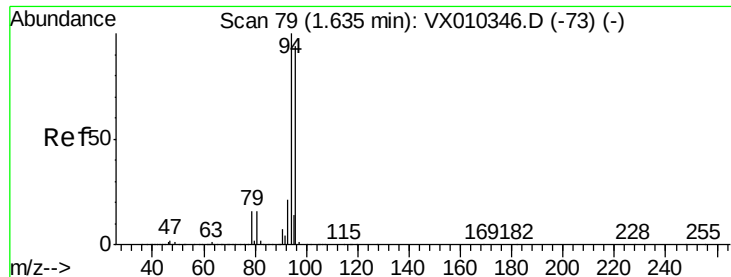
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.416 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

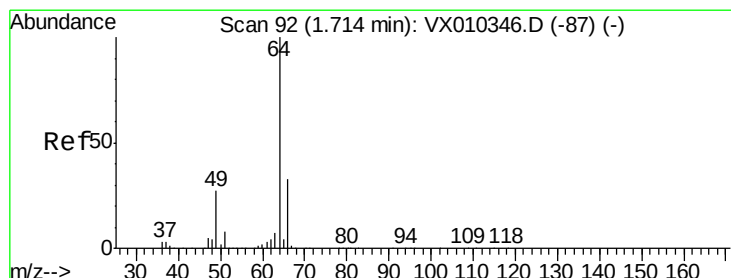
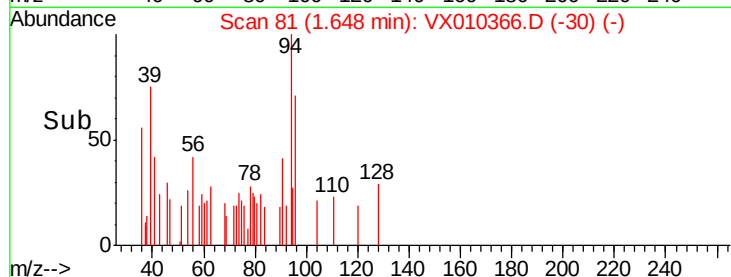
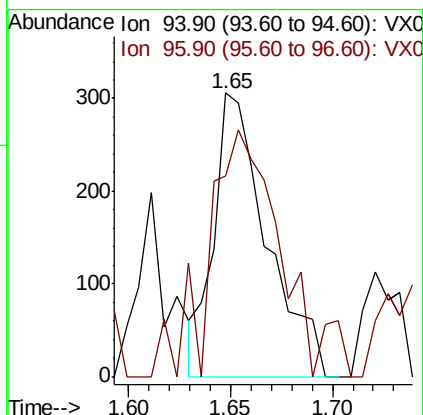
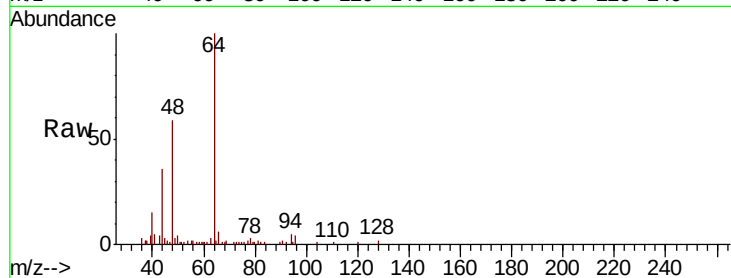
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 554

Ion Ratio Lower Upper

94 100

96 51.0 75.5 113.3#



#6

Chloroethane

Concen: 11.886 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX010366.D

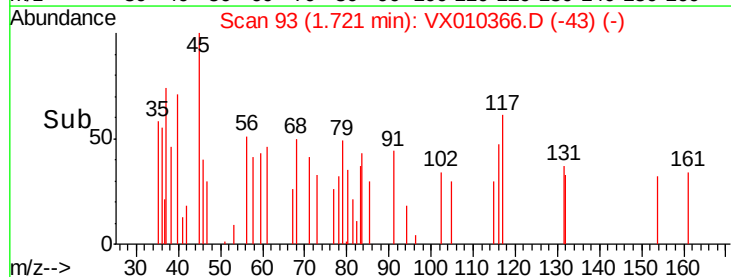
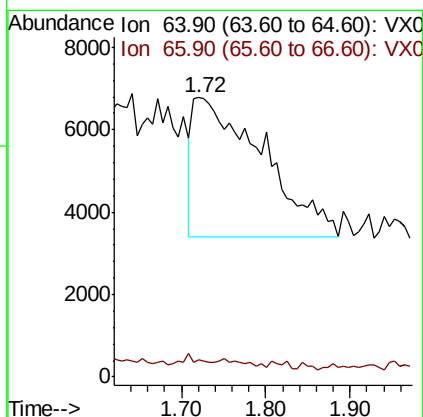
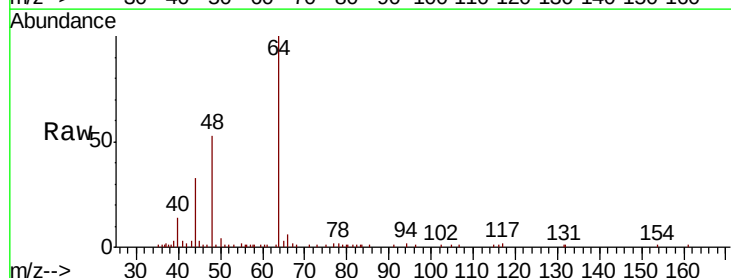
Acq: 20 Jun 2019 18:45

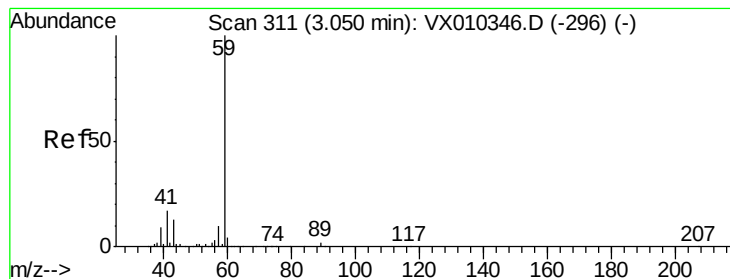
Tgt Ion: 64 Resp: 19159

Ion Ratio Lower Upper

64 100

66 5.3 26.6 40.0#



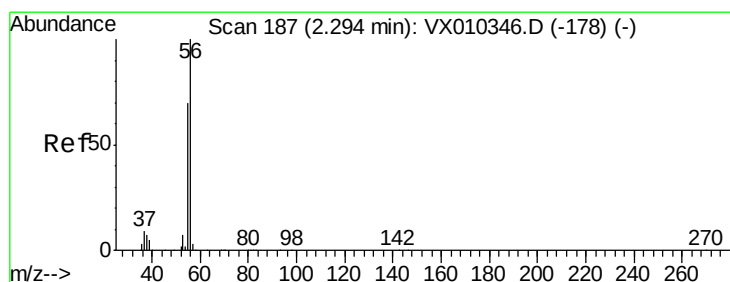
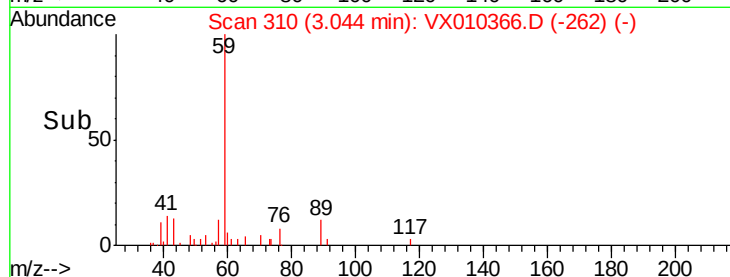
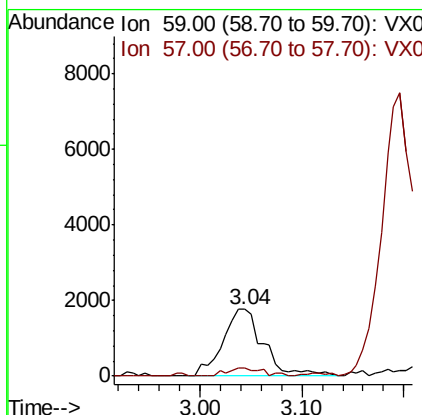
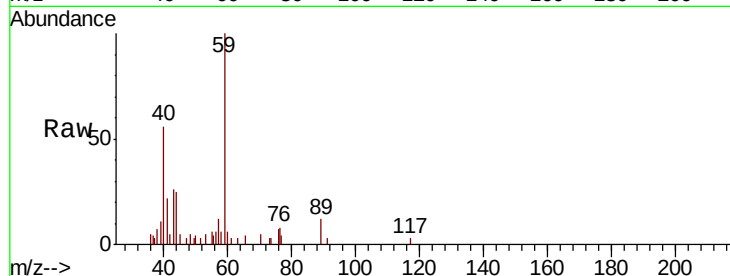


#11

Tert butyl alcohol
Concen: 6.481 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Instrument :
MSVOA_X
ClientSampleId :

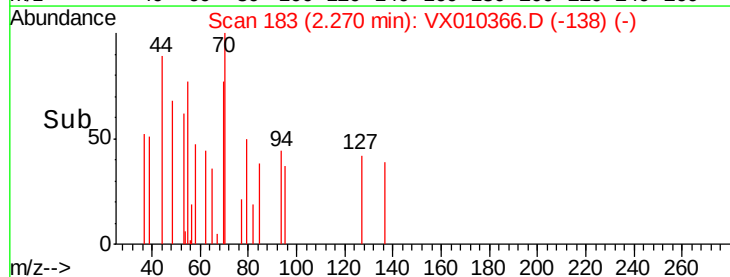
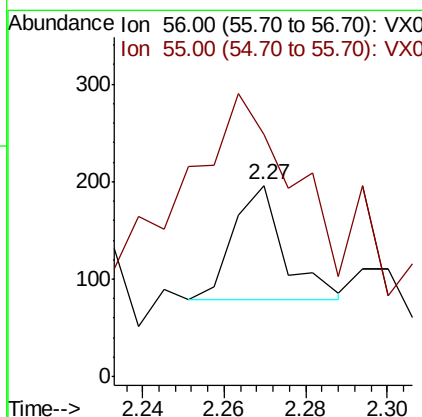
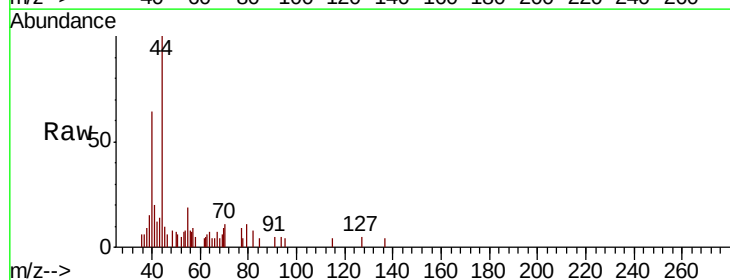
Tot Ion: 59 Resp: 4899
Ion Ratio Lower Upper
59 100
57 11.1 7.7 11.5

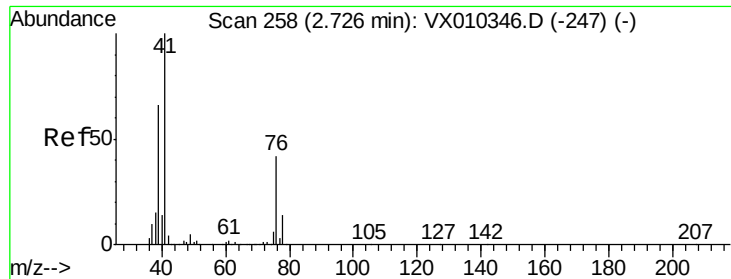


#13

Acrolein
Concen: 0.201 ug/l
RT: 2.27 min Scan# 183
Delta R.T. -0.02 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion: 56 Resp: 101
Ion Ratio Lower Upper
56 100
55 631.7 56.9 85.3#

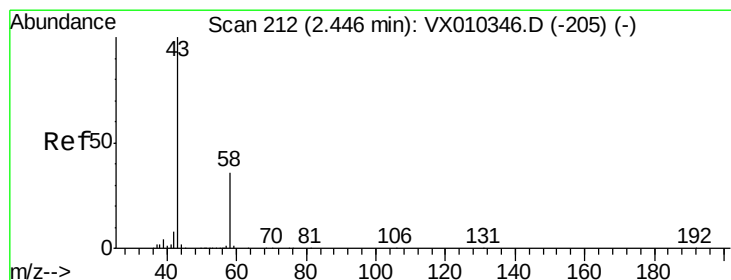
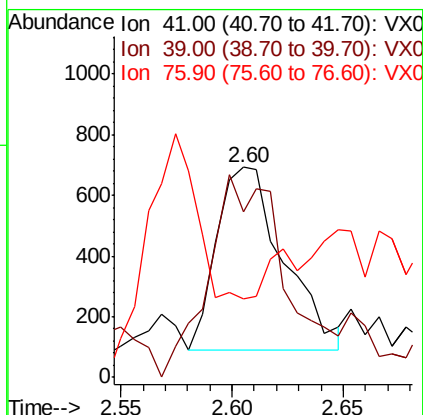
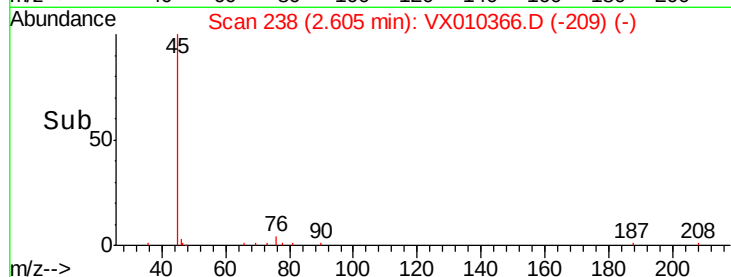
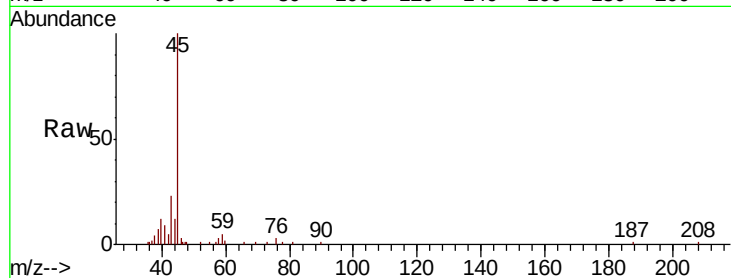




#14
Allvl chloride
Concen: 0.329 ug/l
RT: 2.60 min Scan# 238
Delta R.T. -0.12 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

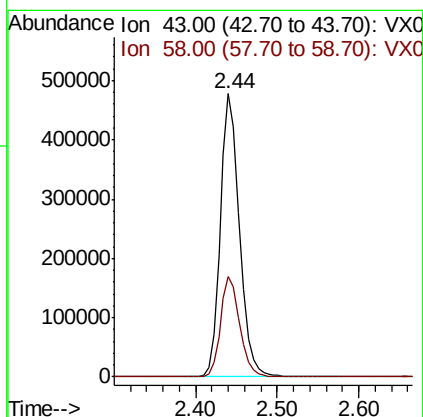
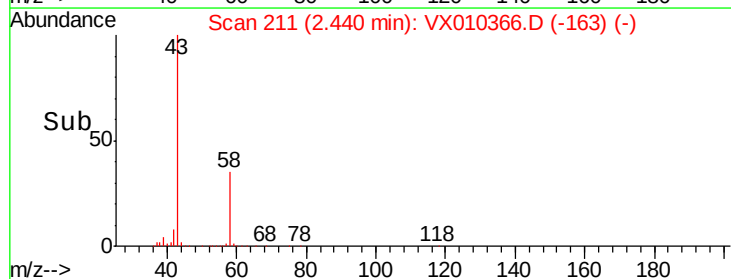
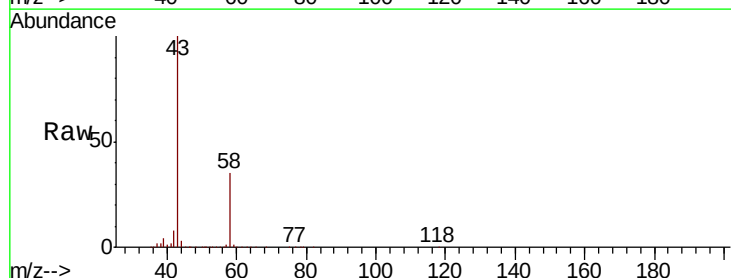
Instrument :
MSVOA_X
ClientSampled :

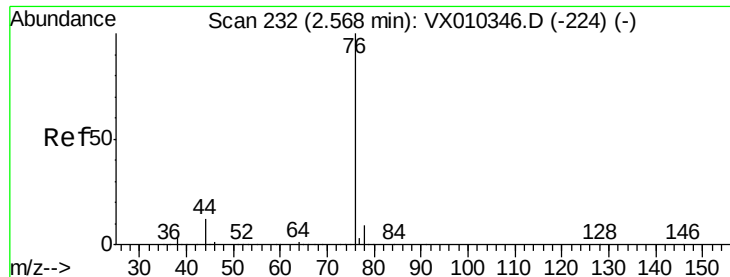
Tot Ion: 41 Resp: 1249
Ion Ratio Lower Upper
41 100
39 128.3 50.3 75.5#
76 0.0 31.3 46.9#



#16
Acetone
Concen: 539.008 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion: 43 Resp: 780415
Ion Ratio Lower Upper
43 100
58 35.4 28.9 43.3





#17

Carbon Disulfide

Concen: 0.223 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

Instrument :

MSVOA_X

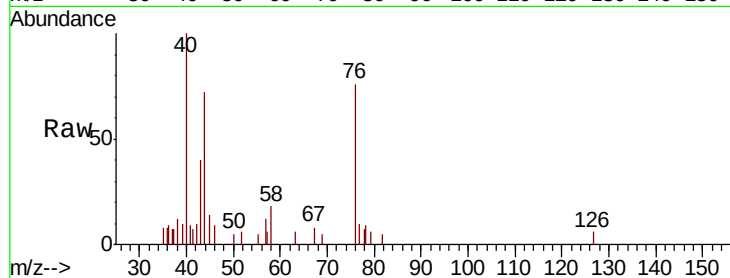
ClientSampleId :

Tot Ion: 76 Resp: 1601

Ion Ratio Lower Upper

76 100

78 21.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

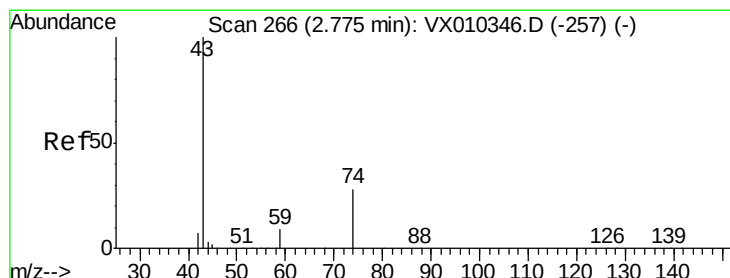
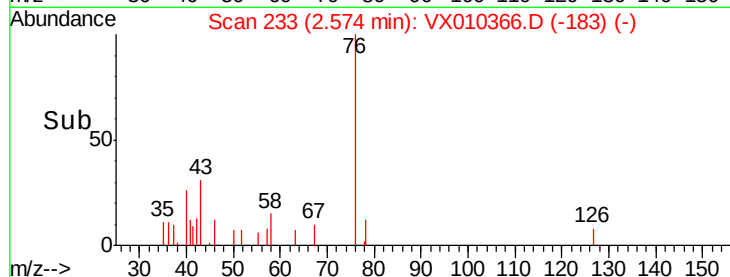
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.231 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.16 min

Lab File: VX010366.D

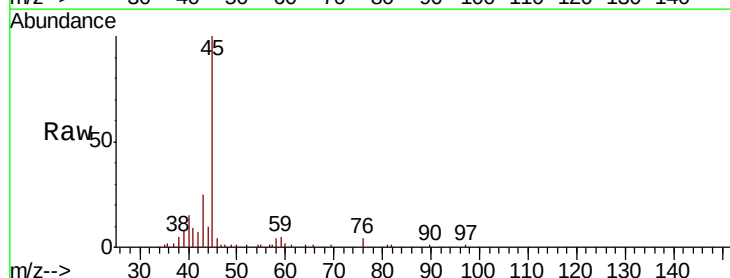
Acq: 20 Jun 2019 18:45

Tgt Ion: 43 Resp: 3552

Ion Ratio Lower Upper

43 100

74 0.0 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.61

2000

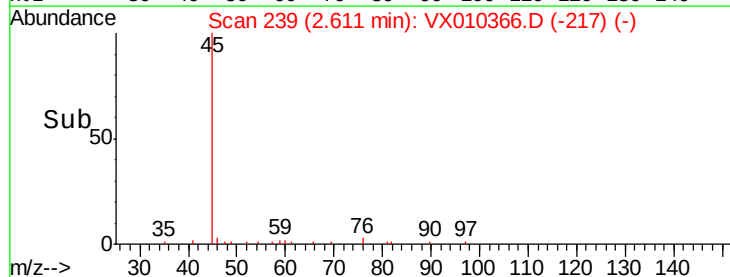
1500

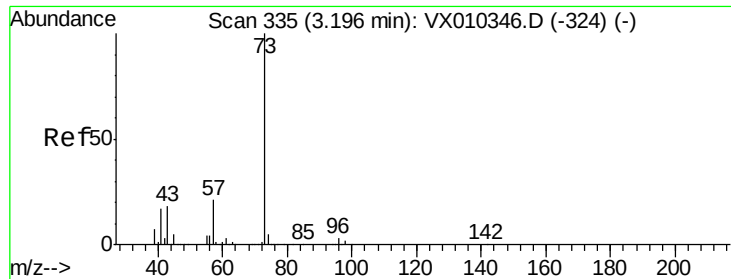
1000

500

0

Time-->

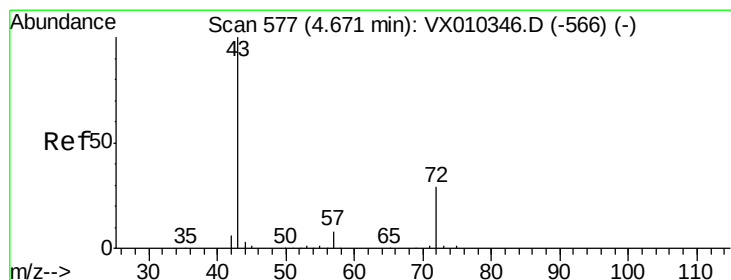
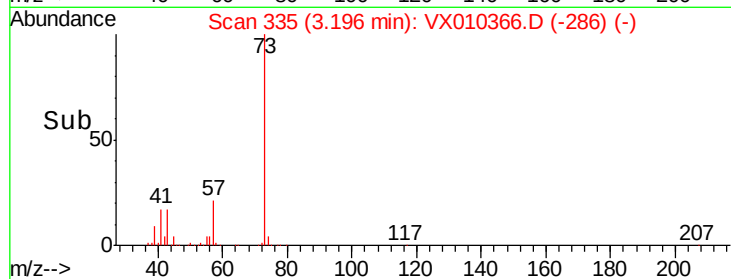
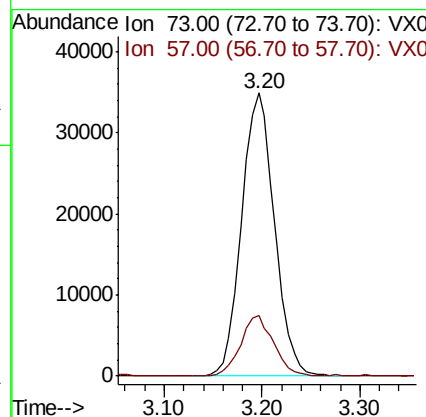
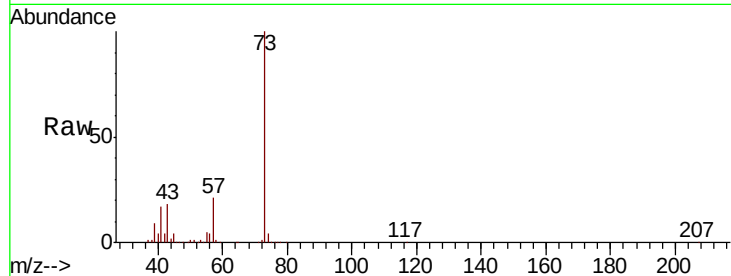




#19
Methyl tert-butyl Ether
Concen: 9.684 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

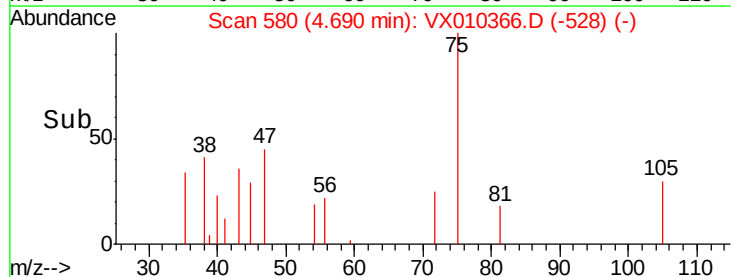
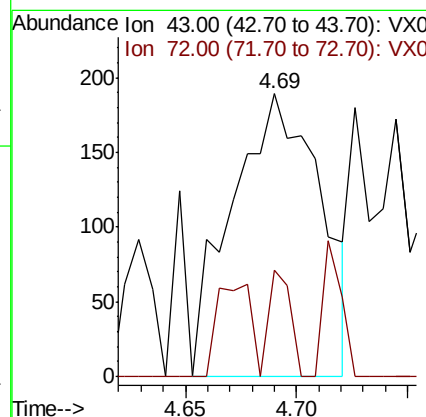
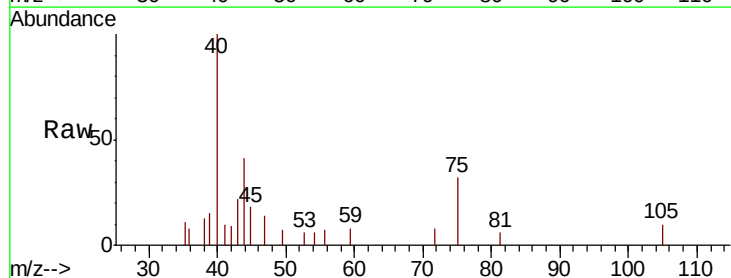
Instrument :
MSVOA_X
ClientSampleId :

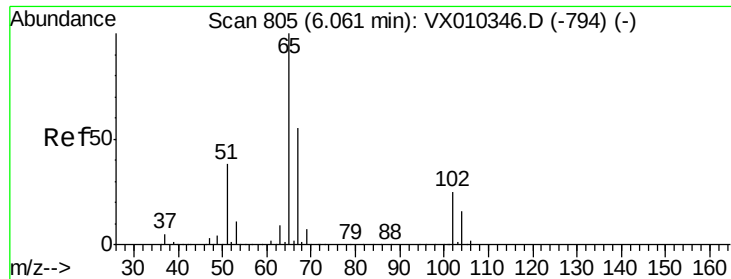
Tot Ion: 73 Resp: 81362
Ion Ratio Lower Upper
73 100
57 21.3 16.4 24.6



#25
2-Butanone
Concen: 0.246 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion: 43 Resp: 523
Ion Ratio Lower Upper
43 100
72 37.6 23.3 34.9#

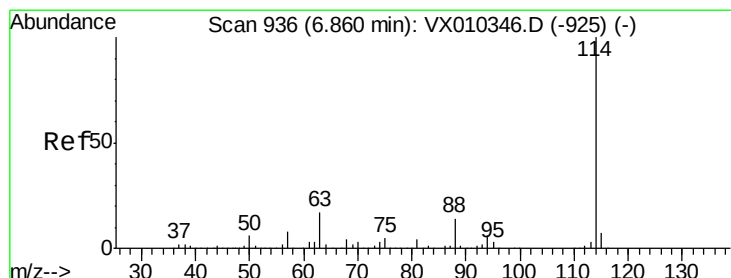
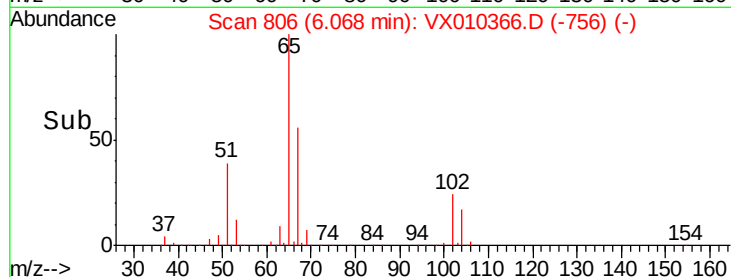
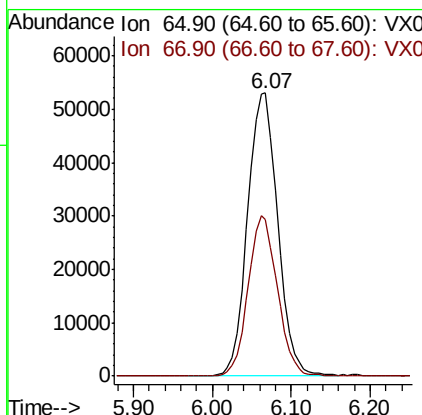
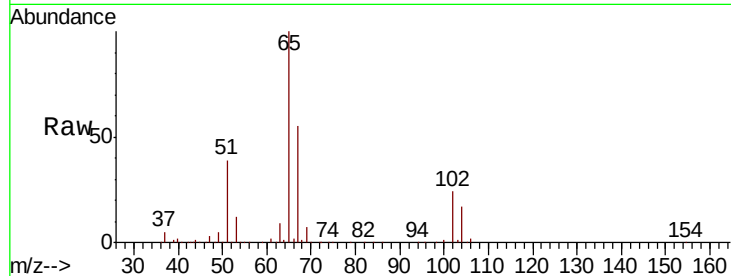




#33
 1,2-Dichloroethane-d4
 Concen: 48.917 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX010366.D
 Acq: 20 Jun 2019 18:45

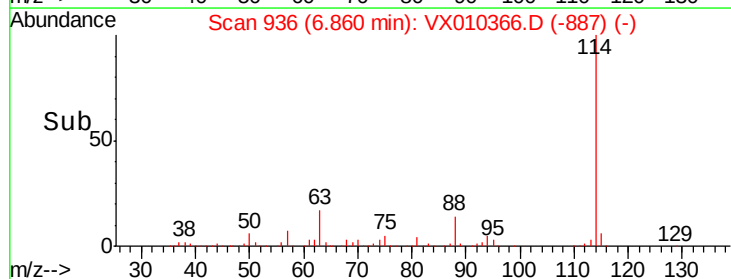
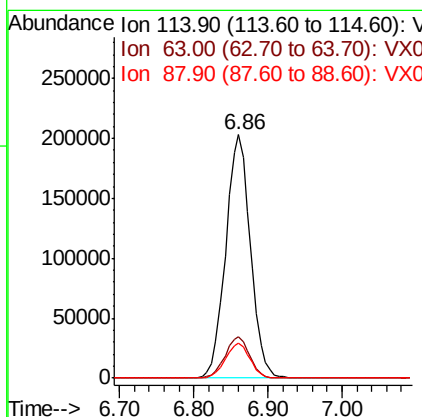
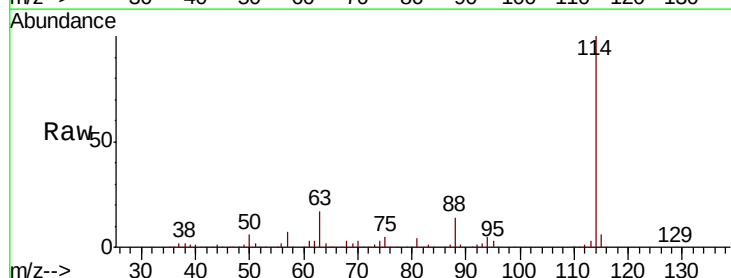
Instrument :
 MSVOA_X
 ClientSampleId :

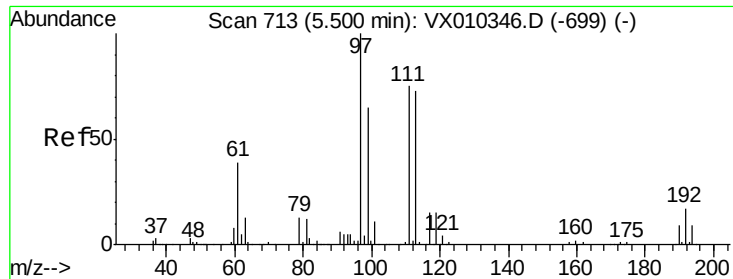
Tot Ion: 65 Resp: 141322
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010366.D
 Acq: 20 Jun 2019 18:45

Tgt Ion: 114 Resp: 469609
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 33.8
 88 14.4 0.0 27.6





#35

Dibromofluoromethane

Concen: 50.183 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

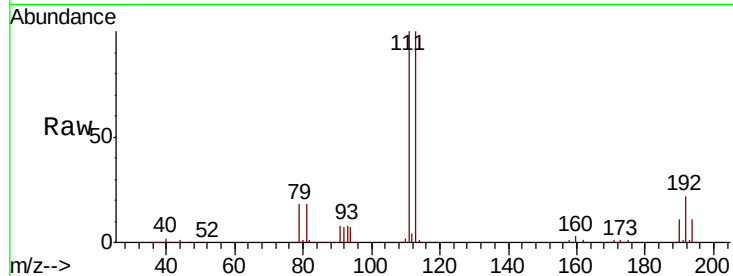
Tot Ion:113 Resp: 144187

Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.2	121.8
192	22.5	18.6	27.8

113 100

111 100.8 81.2 121.8

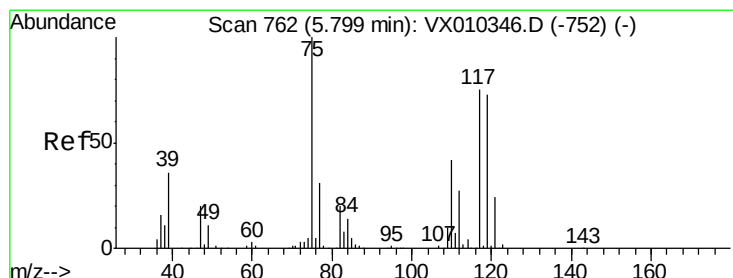
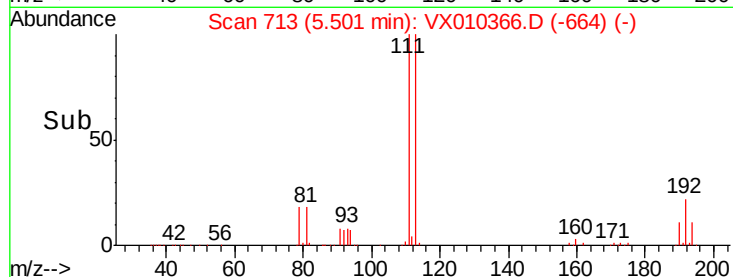
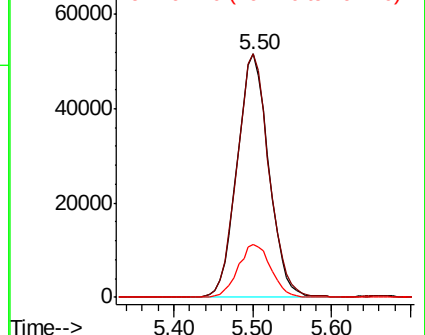
192 22.5 18.6 27.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.091 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

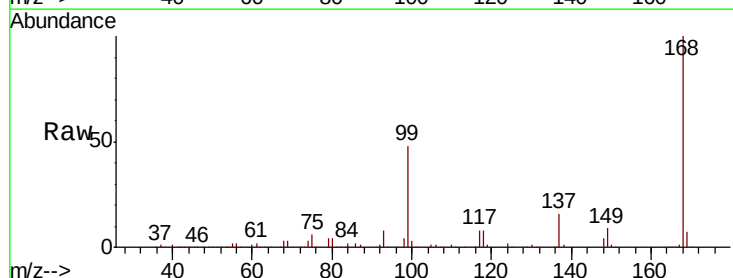
Tgt Ion: 75 Resp: 18999

Ion	Ratio	Lower	Upper
75	100		
110	9.7	20.8	62.2#
77	0.0	25.4	38.0#

75 100

110 9.7 20.8 62.2#

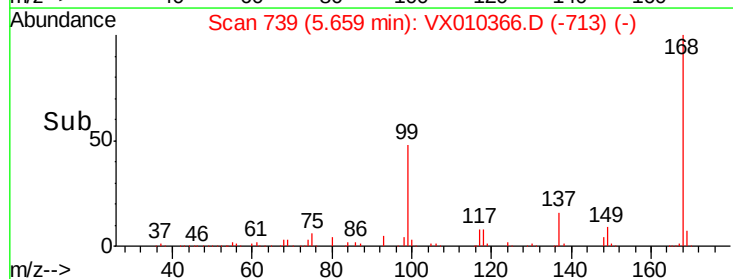
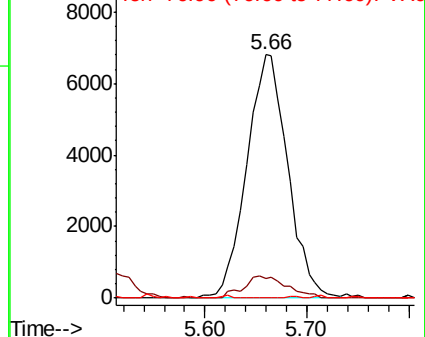
77 0.0 25.4 38.0#

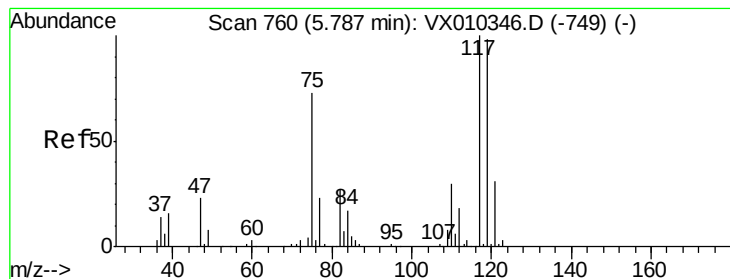


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.668 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

Instrument :

MSVOA_X

ClientSampleId :

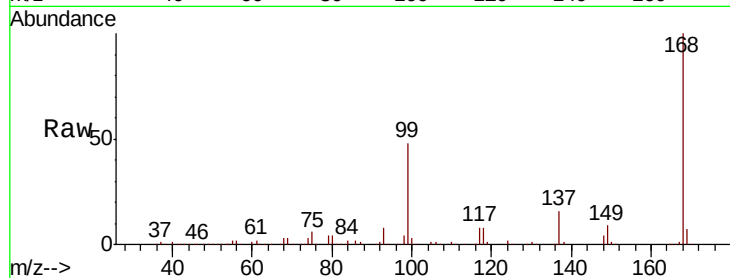
Tot Ion:117 Resp: 26944

Ion Ratio Lower Upper

117 100

119 7.1 78.2 117.4#

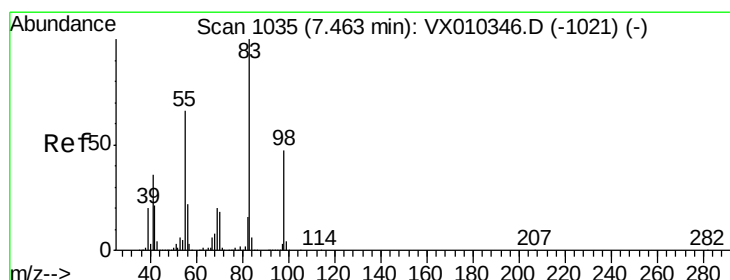
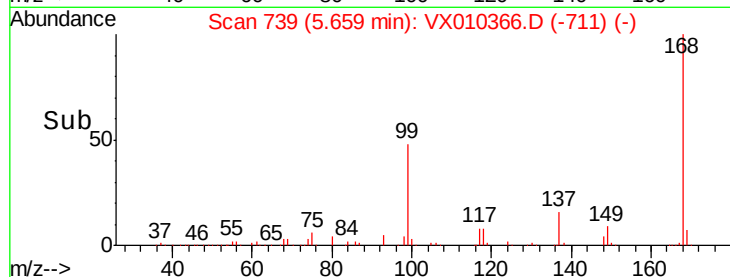
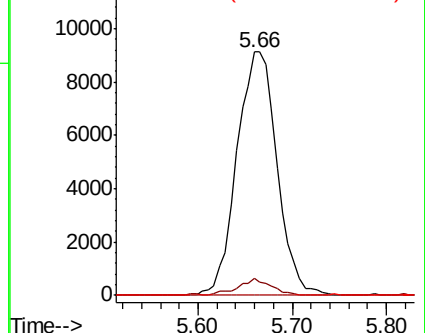
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.283 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

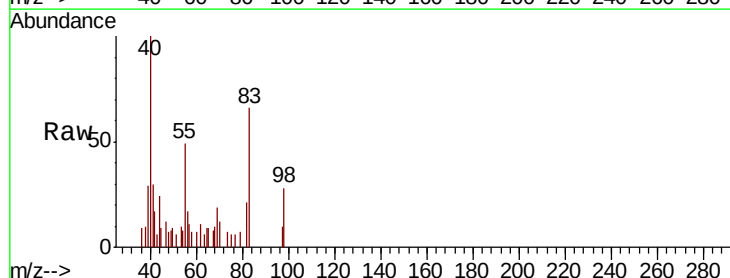
Tgt Ion: 83 Resp: 1388

Ion Ratio Lower Upper

83 100

55 74.4 53.0 79.6

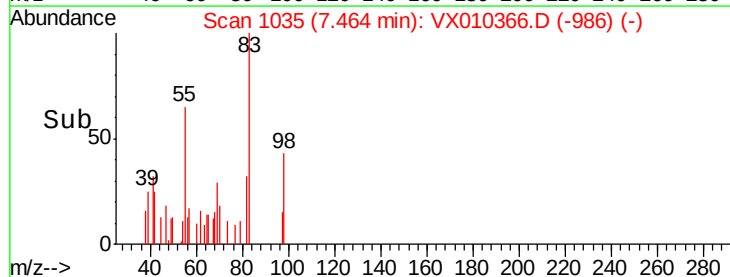
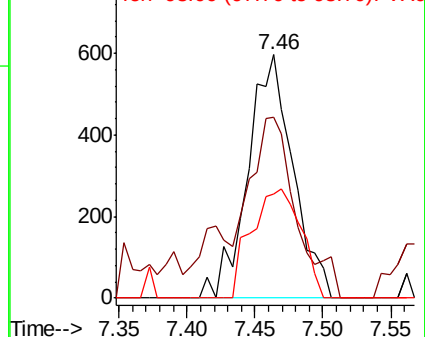
98 42.5 37.8 56.8

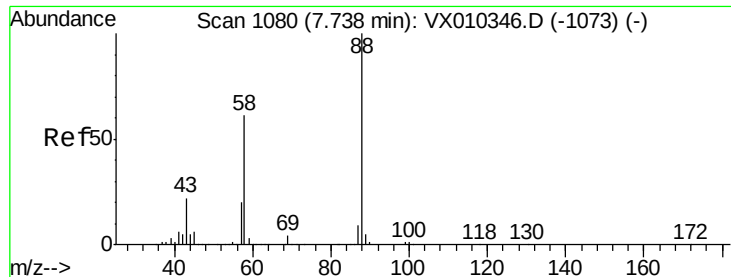


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#49

1,4-Dioxane

Concen: 0.270 ug/l

RT: 7.85 min Scan# 1098

Delta R.T. 0.11 min

Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

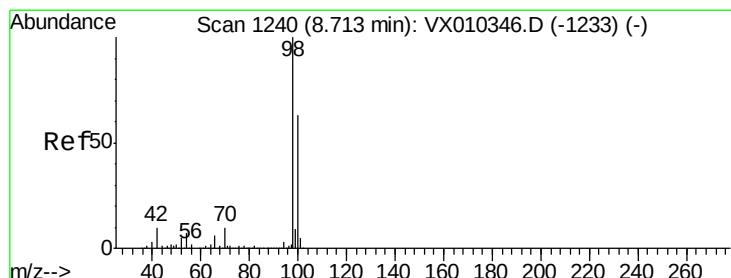
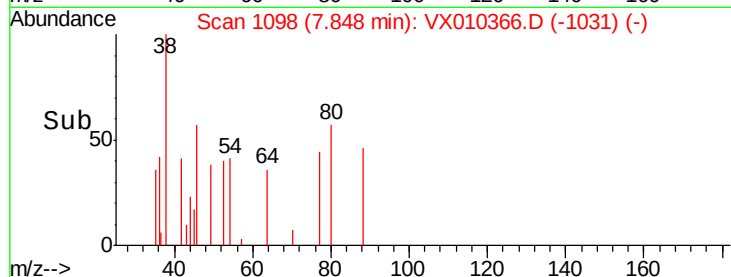
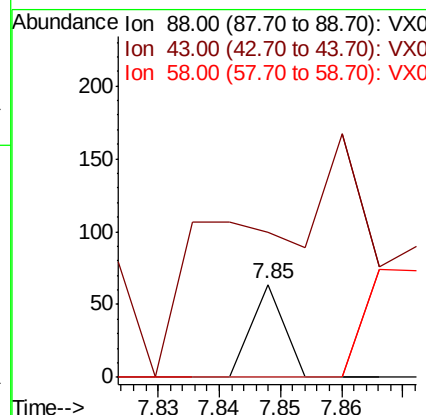
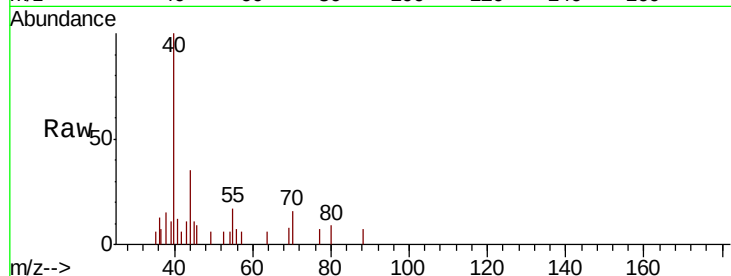
Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 88 Resp: 23

Ion	Ratio	Lower	Upper
88	100		
43	1369.6	20.2	30.2#
58	0.0	49.5	74.3#



#50

Toluene-d8

Concen: 49.793 ug/l

RT: 8.71 min Scan# 1240

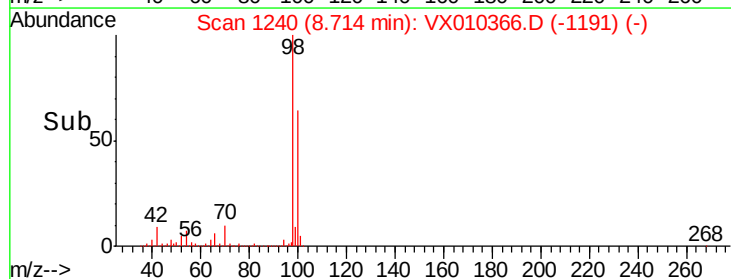
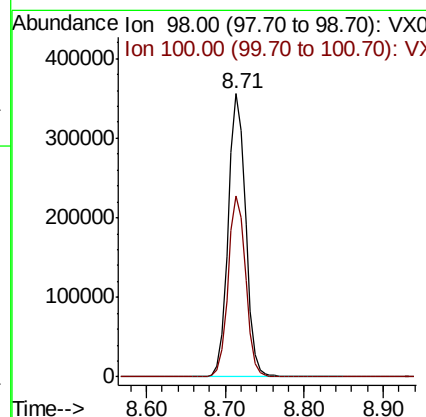
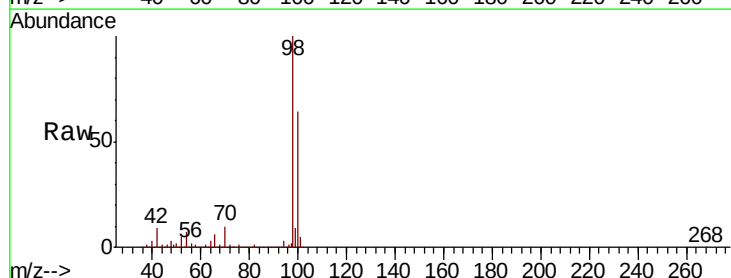
Delta R.T. 0.00 min

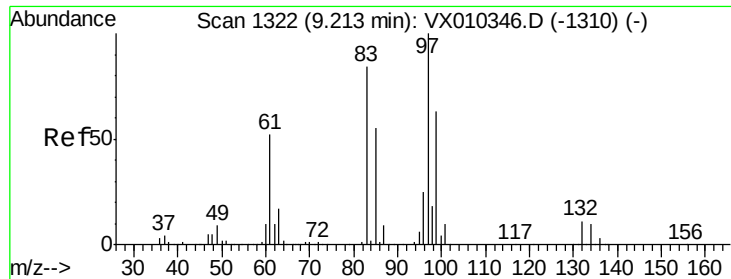
Lab File: VX010366.D

Acq: 20 Jun 2019 18:45

Tgt Ion: 98 Resp: 547350

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

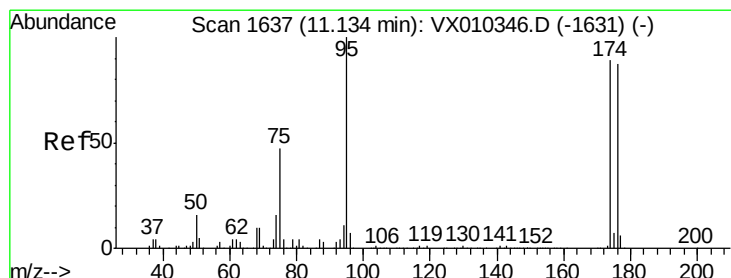
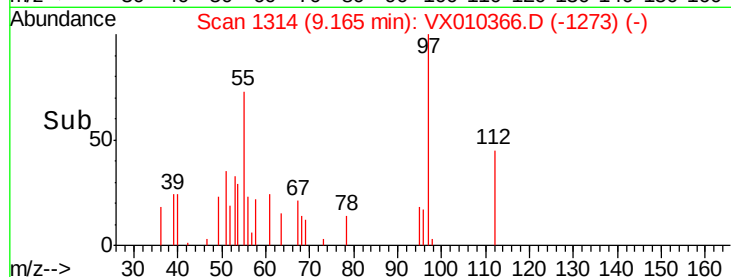
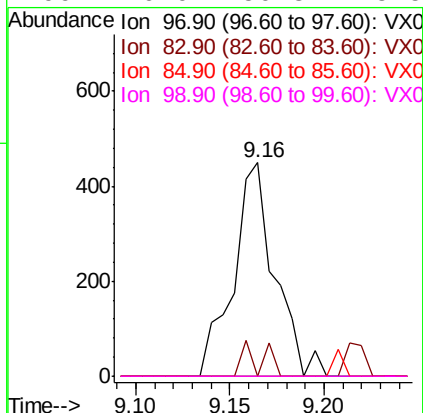
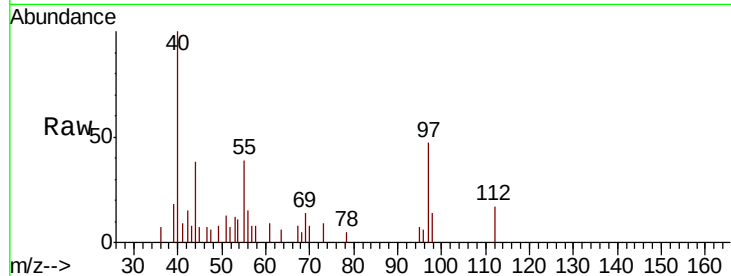




#55
 1,1,2-Trichloroethane
 Concen: 0.217 ug/l
 RT: 9.16 min Scan# 1314
 Delta R.T. -0.05 min
 Lab File: VX010366.D
 Acq: 20 Jun 2019 18:45

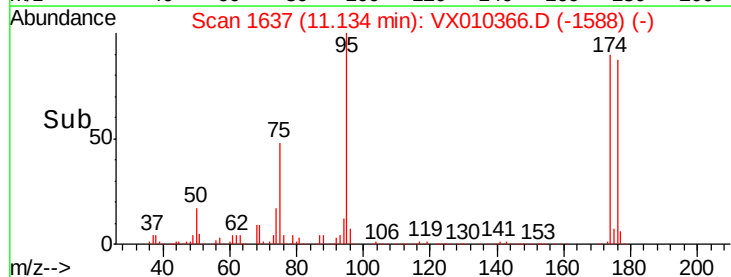
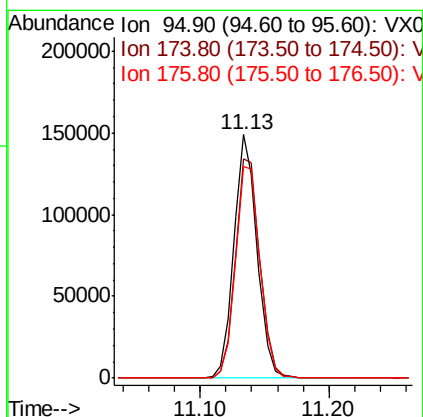
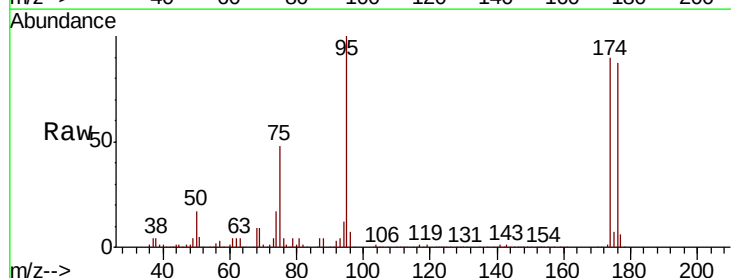
Instrument :
 MSVOA_X
 ClientSampleId :

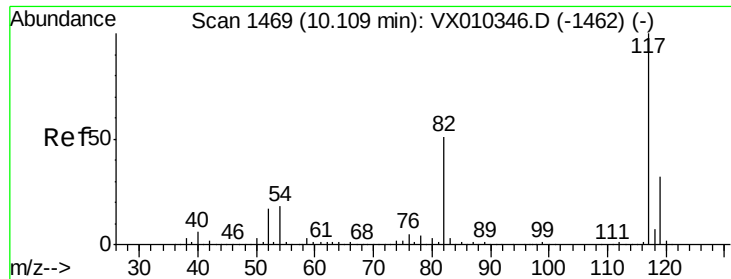
Tot Ion: 97 Resp: 684
 Ion Ratio Lower Upper
 97 100
 83 0.0 67.4 101.0#
 85 0.0 43.8 65.8#
 99 0.0 50.3 75.5#



#62
 4-Bromofluorobenzene
 Concen: 47.074 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX010366.D
 Acq: 20 Jun 2019 18:45

Tgt Ion: 95 Resp: 186819
 Ion Ratio Lower Upper
 95 100
 174 94.8 0.0 187.6
 176 92.1 0.0 184.0

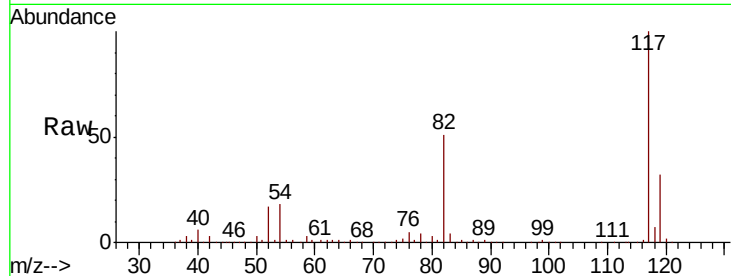




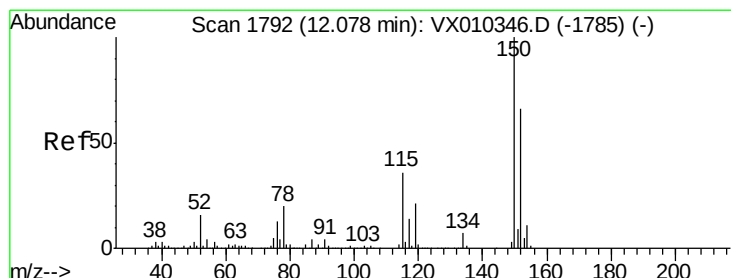
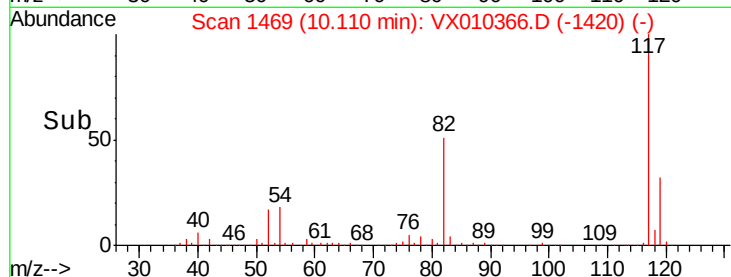
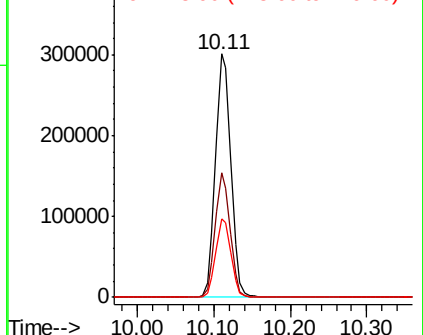
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 421159
Ion Ratio Lower Upper
117 100
82 51.1 41.2 61.8
119 32.3 25.5 38.3

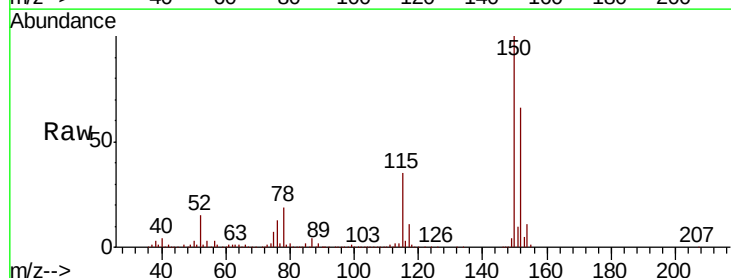


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

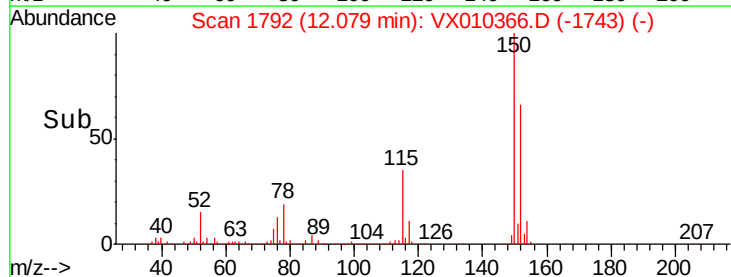
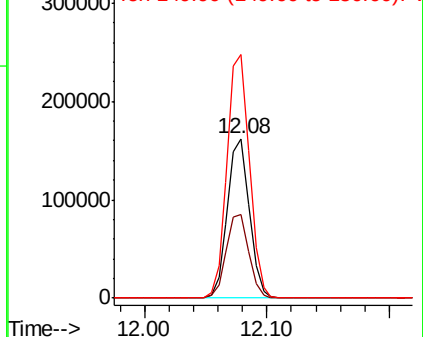


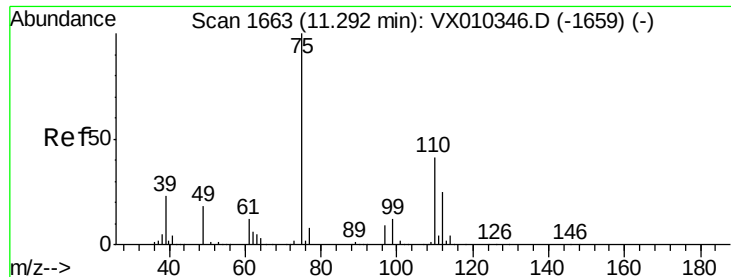
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion:152 Resp: 200771
Ion Ratio Lower Upper
152 100
115 54.5 38.6 115.7
150 156.4 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



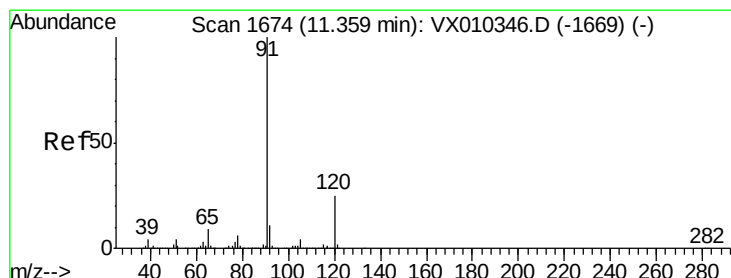
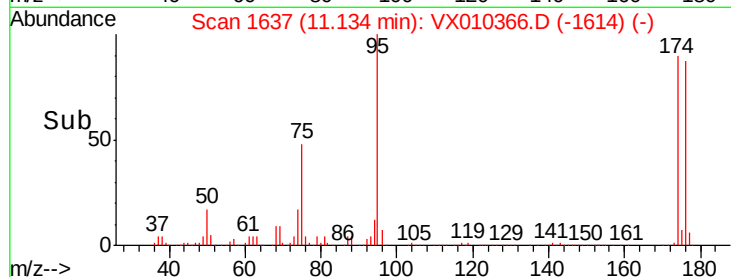
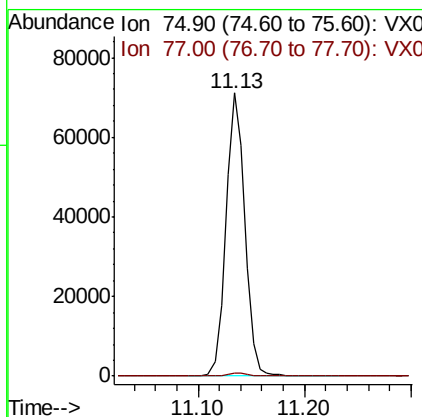
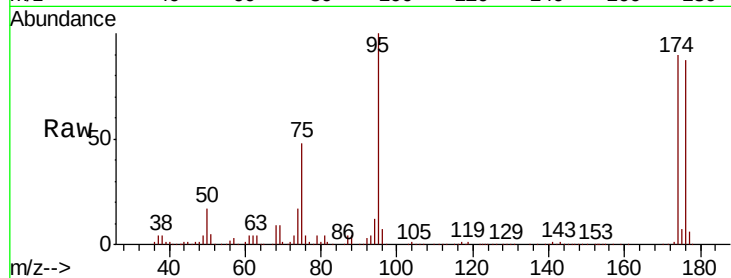


#76

1,2,3-Trichloropropane
Concen: 24.164 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Instrument :
MSVOA_X
ClientSampled :

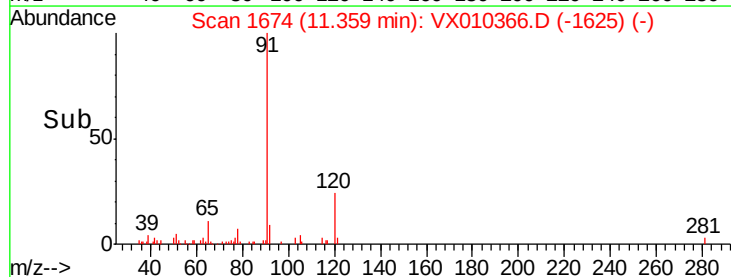
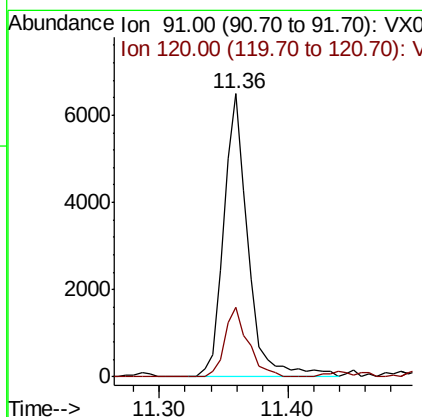
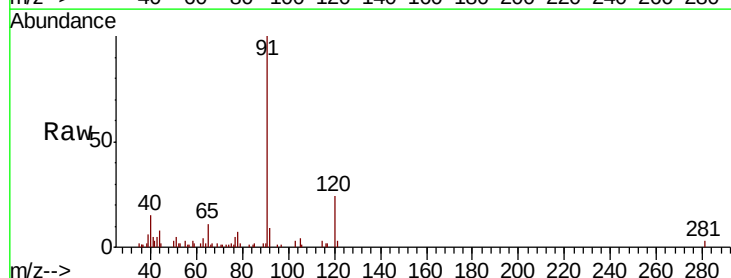
Tot Ion: 75 Resp: 88406
Ion Ratio Lower Upper
75 100
77 1.1 22.6 67.8#

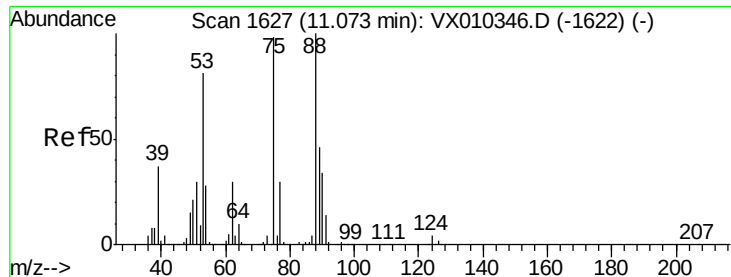


#78

n-propylbenzene
Concen: 0.577 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion: 91 Resp: 8624
Ion Ratio Lower Upper
91 100
120 23.4 12.4 37.4

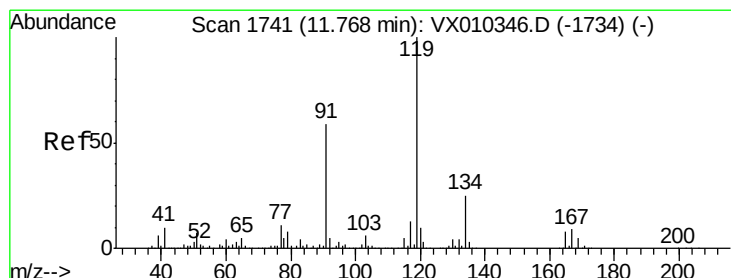
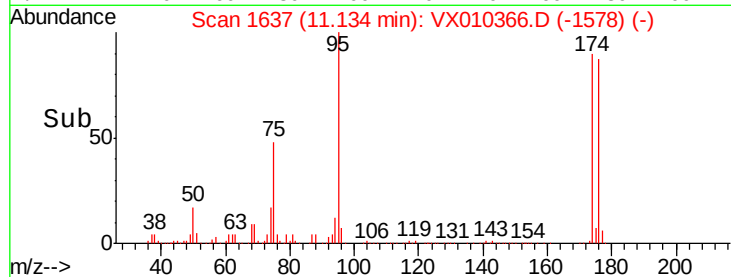
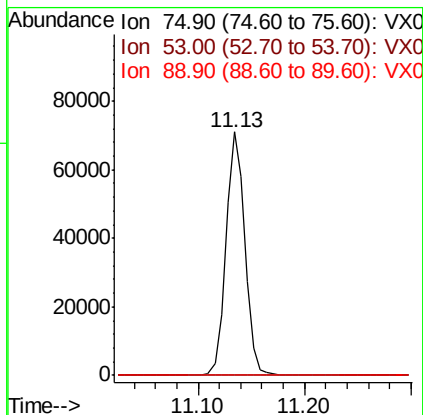
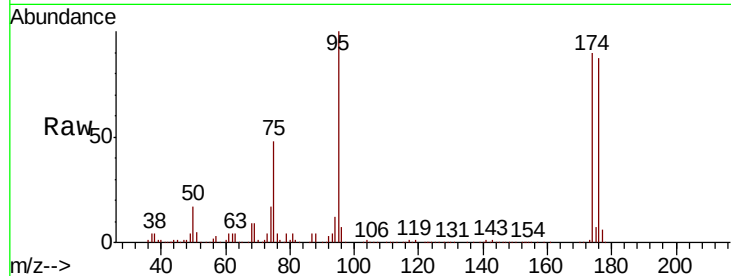




#81
trans-1,4-Dichloro-2-butene
Concen: 56.372 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

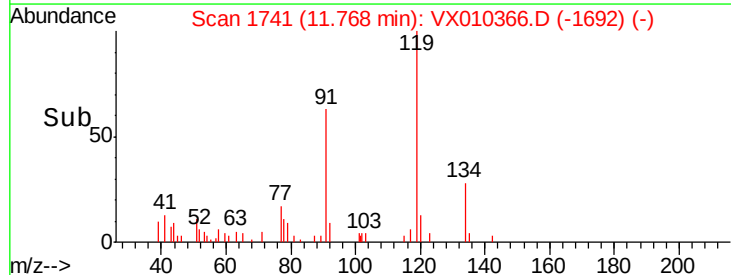
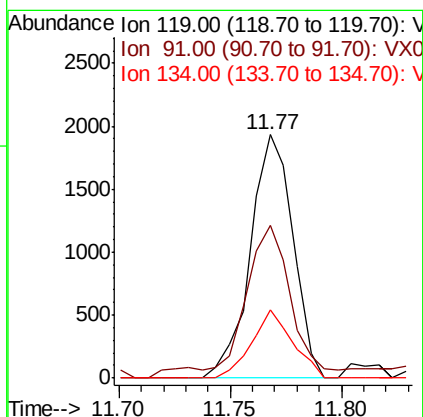
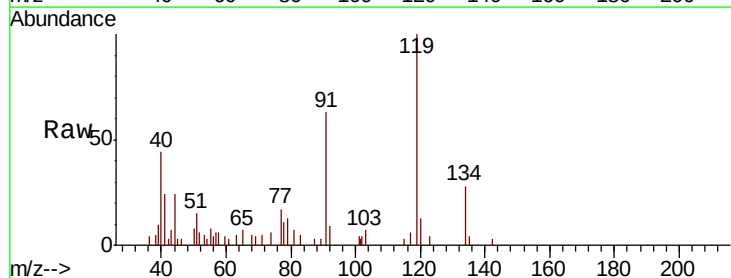
Instrument :
MSVOA_X
ClientSampled :

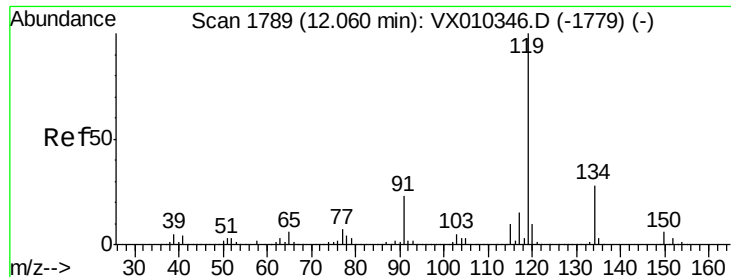
Tot Ion: 75 Resp: 88406
Ion Ratio Lower Upper
75 100
53 0.1 66.1 99.1#
89 0.0 37.8 56.6#



#83
tert-Butylbenzene
Concen: 0.229 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion: 119 Resp: 2574
Ion Ratio Lower Upper
119 100
91 70.7 27.6 82.7
134 26.5 11.8 35.4

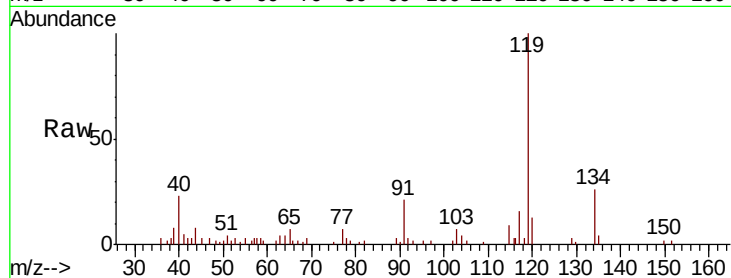




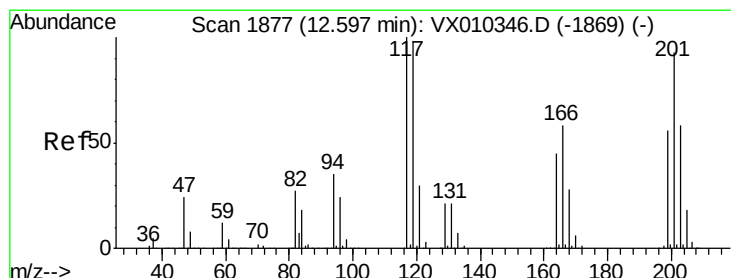
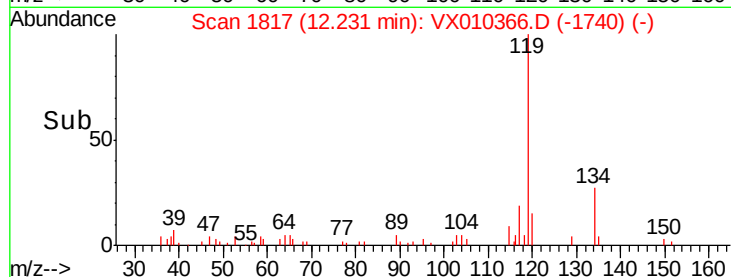
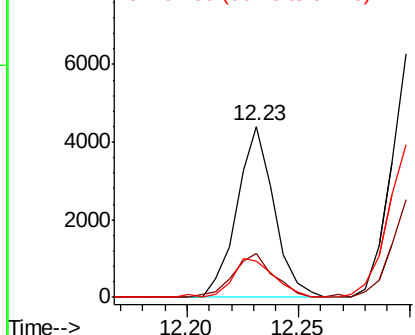
#86
p-Isopropyltoluene
Concen: 0.417 ug/l
RT: 12.23 min Scan# 1817
Delta R.T. 0.17 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:119 Resp: 5097
Ion Ratio Lower Upper
119 100
134 27.6 13.7 41.1
91 25.5 11.3 33.8

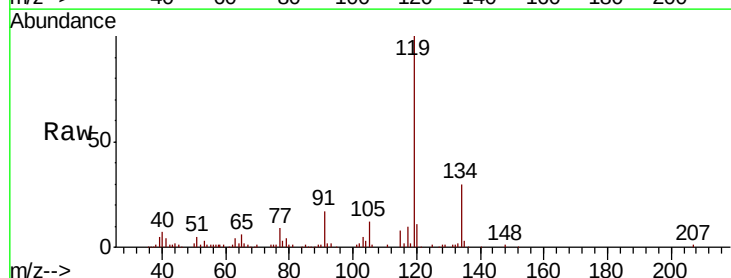


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

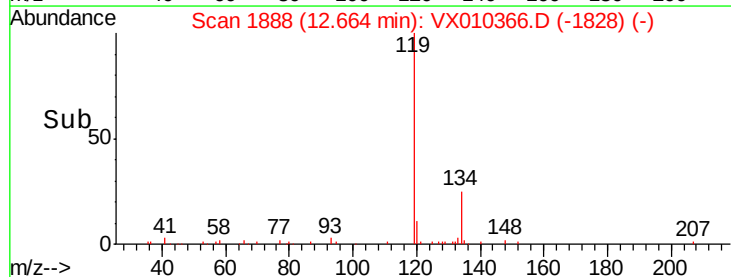
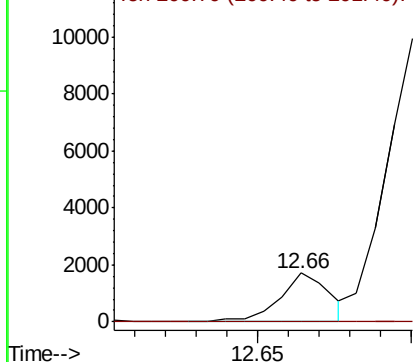


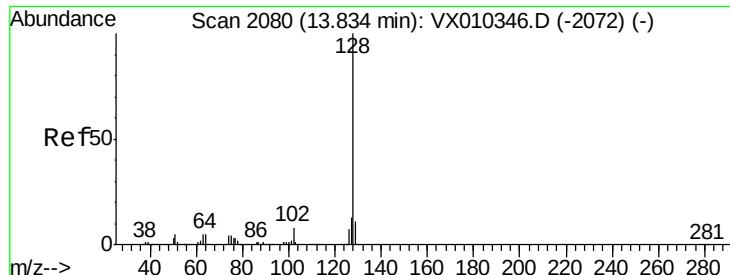
#90
Hexachloroethane
Concen: 0.909 ug/l
RT: 12.66 min Scan# 1888
Delta R.T. 0.07 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Tgt Ion:117 Resp: 1923
Ion Ratio Lower Upper
117 100
201 0.0 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 0.772 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010366.D
Acq: 20 Jun 2019 18:45

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	18.8	10.2	15.4#
129	14.8	8.9	13.3#

