

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\
 Data File : VX010452.D
 Acq On : 26 Jun 2019 11:05
 Operator : JC/SP
 Sample : K3527-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 01:10:17 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	251256	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388038	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	350419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	161080	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	122470	51.99	ug/l	0.00
Spiked Amount						
			Recovery	=	103.98%	
35) Dibromofluoromethane	5.50	113	118850	50.06	ug/l	0.00
Spiked Amount						
			Recovery	=	100.12%	
50) Toluene-d8	8.71	98	457784	50.40	ug/l	0.00
Spiked Amount						
			Recovery	=	100.80%	
62) 4-Bromofluorobenzene	11.13	95	153435	46.79	ug/l	0.00
Spiked Amount						
			Recovery	=	93.58%	

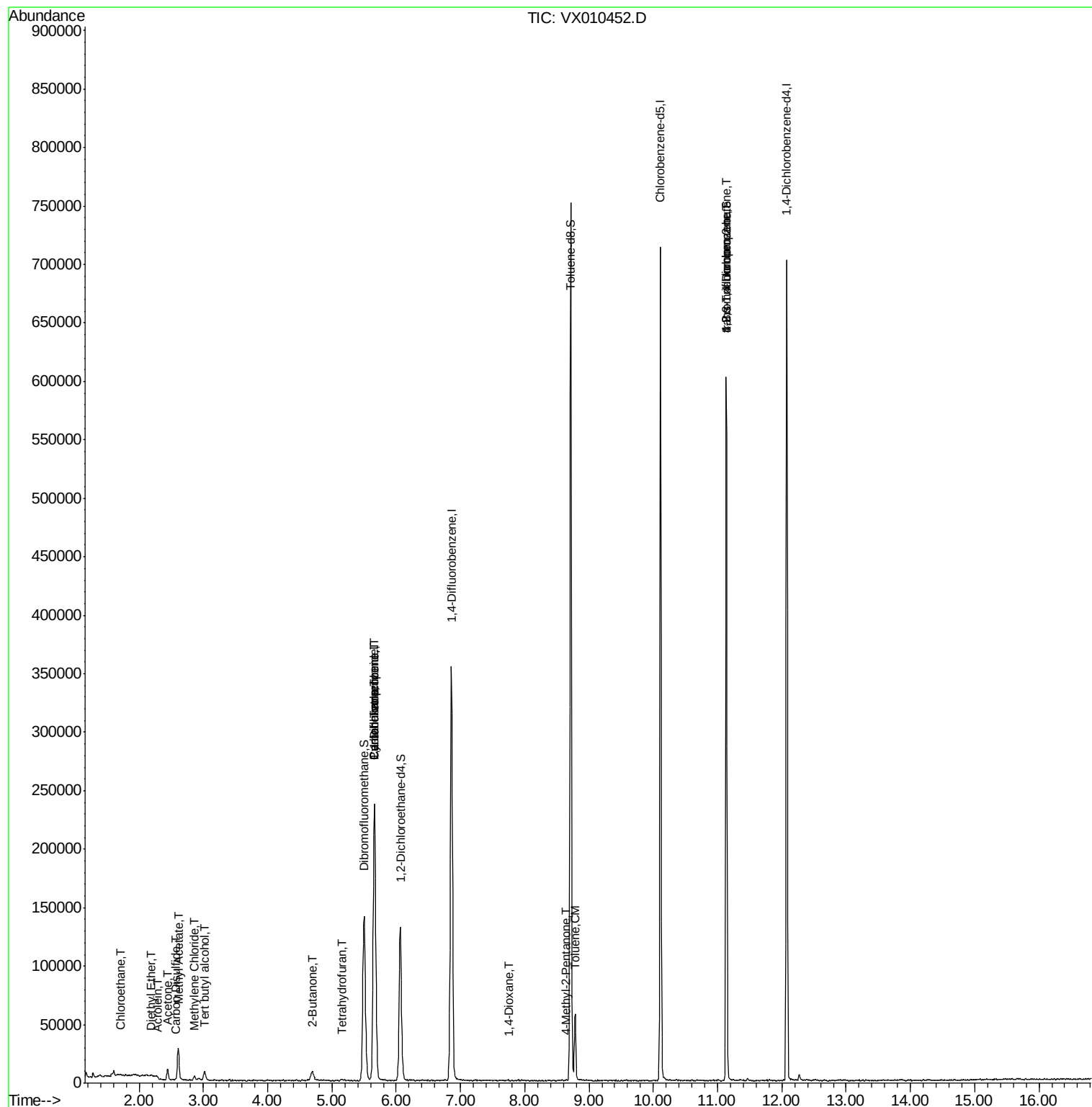
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	367	0.279	ug/l #	41
8) Diethyl Ether	2.18	74	343	0.271	ug/l	71
11) Tert butyl alcohol	3.01	59	4859	7.882	ug/l #	74
13) Acrolein	2.29	56	187	0.457	ug/l	83
16) Acetone	2.44	43	10025	8.491	ug/l	95
17) Carbon Disulfide	2.57	76	1603	0.274	ug/l #	94
18) Methyl Acetate	2.60	43	7580	3.221	ug/l #	49
20) Methylene Chloride	2.86	84	1932	0.795	ug/l #	91
25) 2-Butanone	4.70	43	2218	1.281	ug/l	91
29) Tetrahydrofuran	5.15	42	957	0.892	ug/l #	66
31) Cyclohexane	5.66	56	4308	1.266	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15300	4.962	ug/l #	48
38) Carbon Tetrachloride	5.67	117	22407	6.711	ug/l #	15
49) 1,4-Dioxane	7.76	88	50	0.711	ug/l #	28
51) 4-Methyl-2-Pentanone	8.65	43	837	0.249	ug/l	87
52) Toluene	8.79	92	21152	3.343	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	72691	24.764	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72691	57.773	ug/l #	16

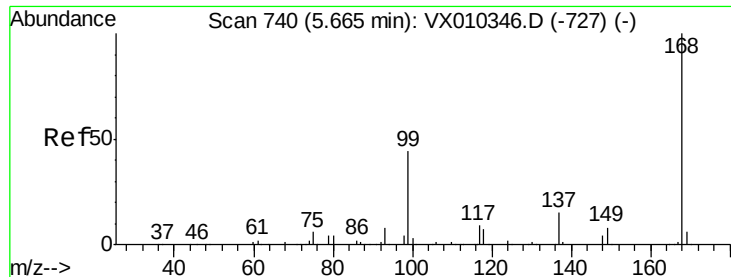
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

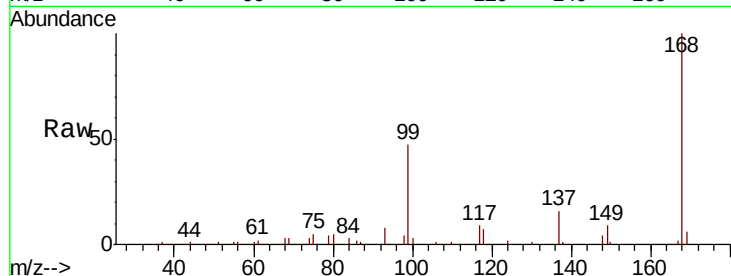
ClientSampleId :

Tot Ion:168 Resp: 251256

Ion Ratio Lower Upper

168 100

99 46.9 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

100000

80000

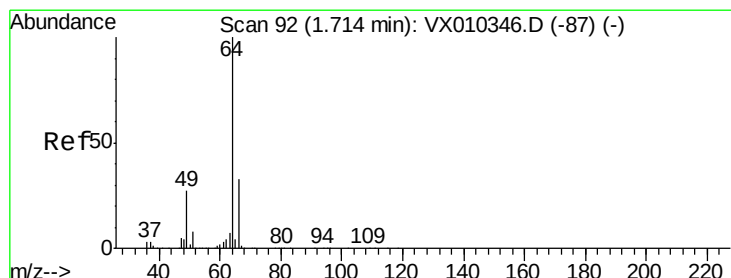
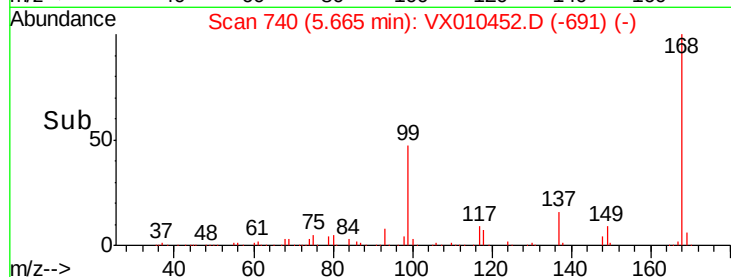
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.279 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010452.D

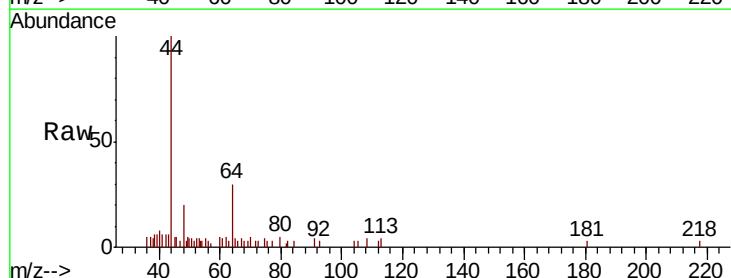
Acq: 26 Jun 2019 11:05

Tgt Ion: 64 Resp: 367

Ion Ratio Lower Upper

64 100

66 0.0 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

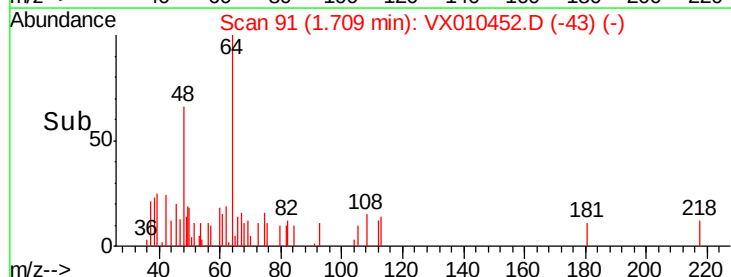
600

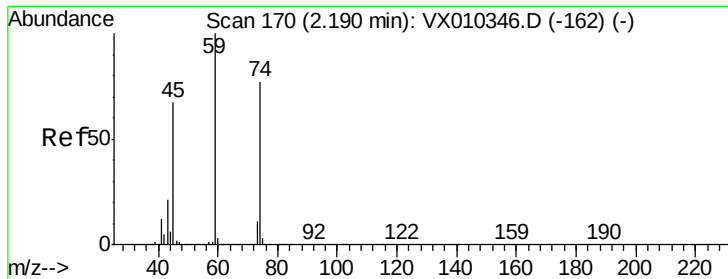
400

200

0

Time--> 1.66 1.68 1.70 1.72





#8

Diethyl Ether

Concen: 0.271 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

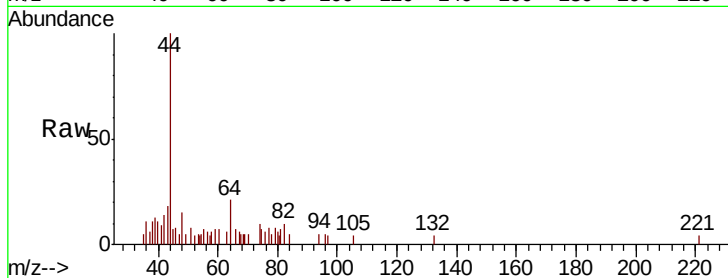
ClientSampleId :

Tot Ion: 74 Resp: 343

Ion Ratio Lower Upper

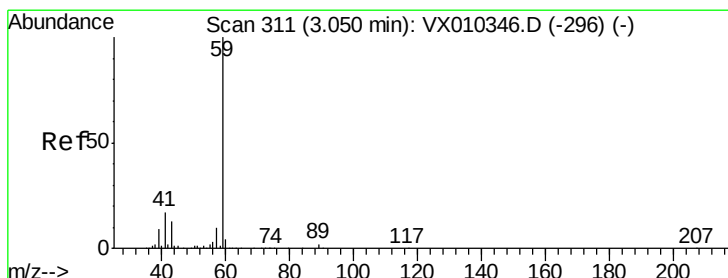
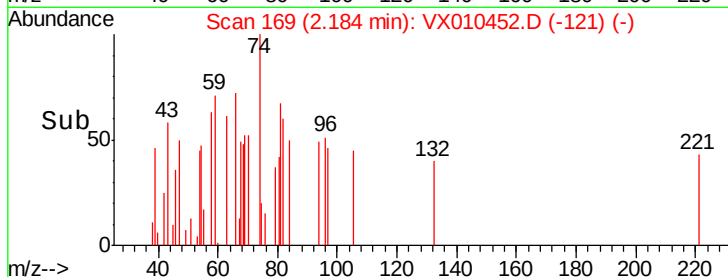
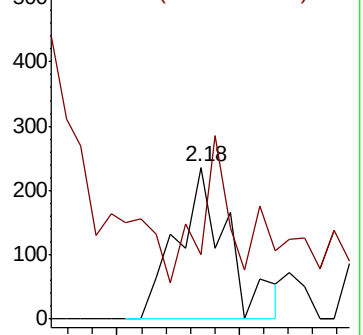
74 100

45 62.7 44.8 134.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 7.882 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX010452.D

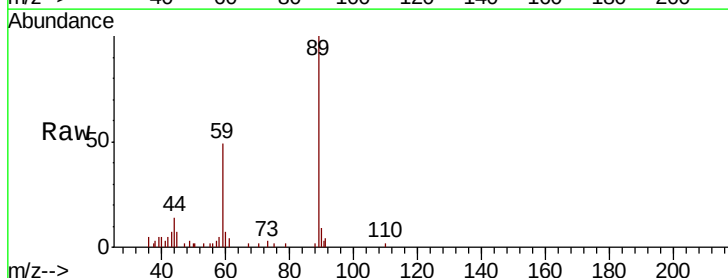
Acq: 26 Jun 2019 11:05

Tgt Ion: 59 Resp: 4859

Ion Ratio Lower Upper

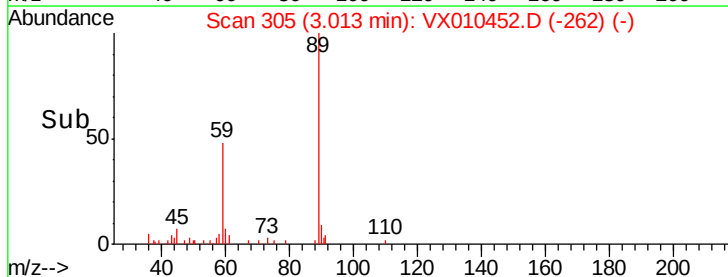
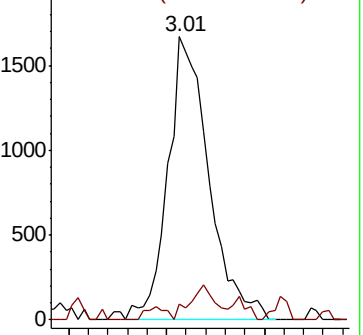
59 100

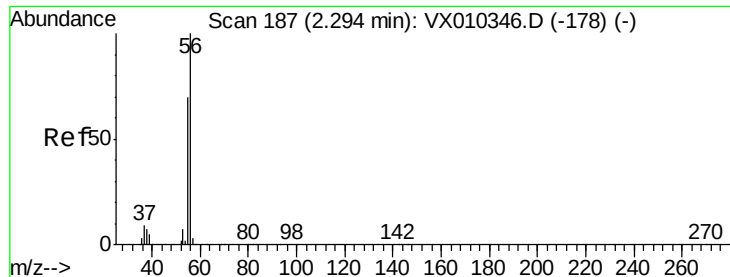
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.457 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

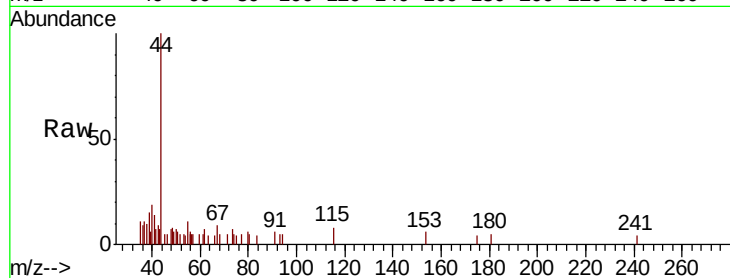
ClientSampleId :

Tot Ion: 56 Resp: 187

Ion Ratio Lower Upper

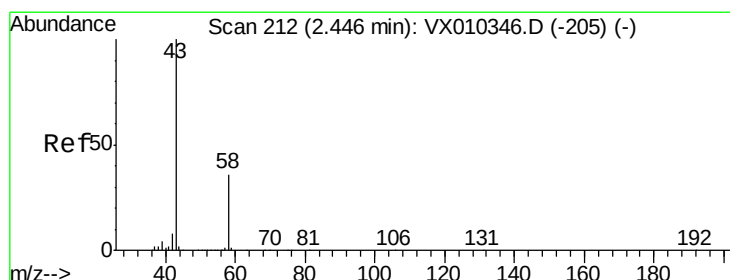
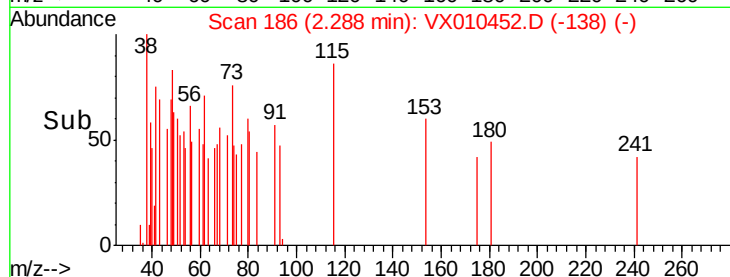
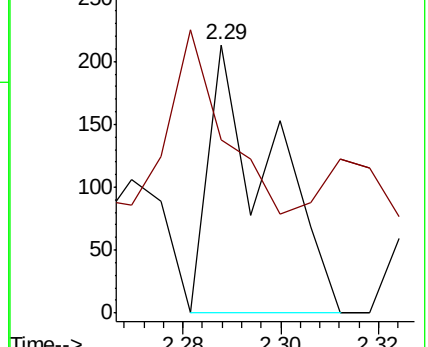
56 100

55 57.2 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 8.491 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010452.D

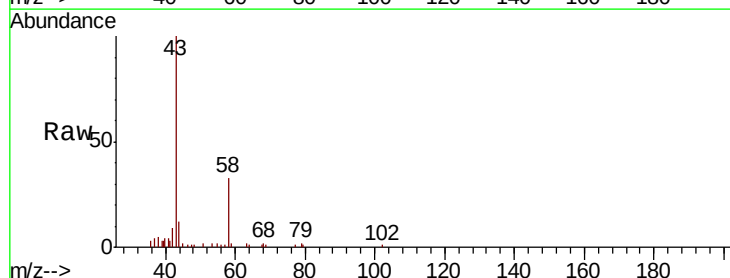
Acq: 26 Jun 2019 11:05

Tgt Ion: 43 Resp: 10025

Ion Ratio Lower Upper

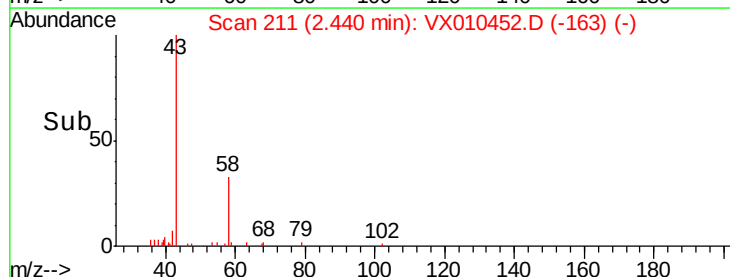
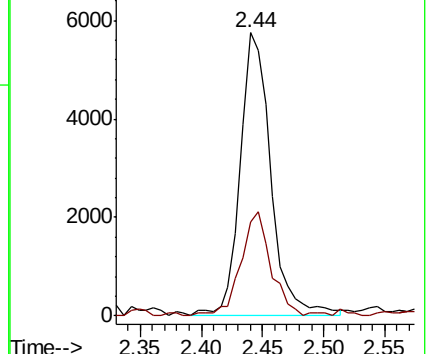
43 100

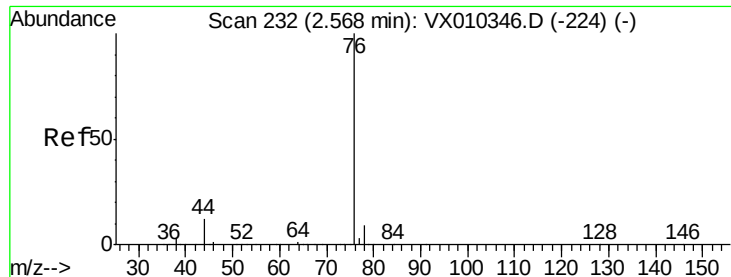
58 33.1 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.274 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

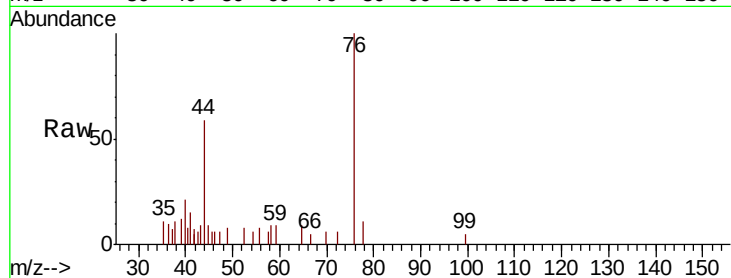
ClientSampled :

Tot Ion: 76 Resp: 1603

Ion Ratio Lower Upper

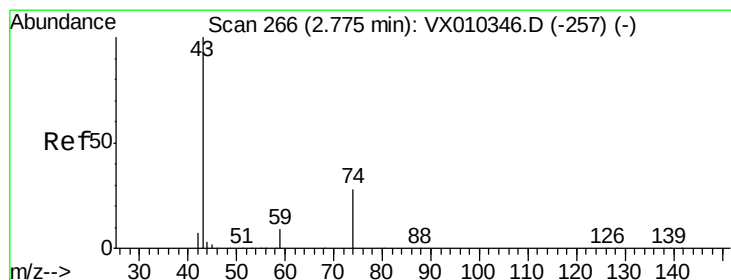
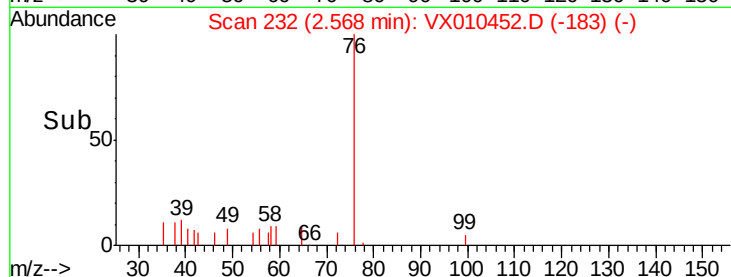
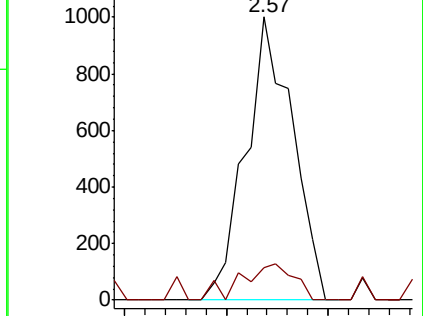
76 100

78 11.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 3.221 ug/l

RT: 2.60 min Scan# 238

Delta R.T. -0.17 min

Lab File: VX010452.D

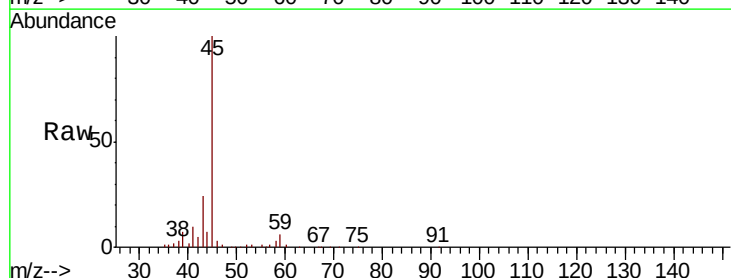
Acq: 26 Jun 2019 11:05

Tgt Ion: 43 Resp: 7580

Ion Ratio Lower Upper

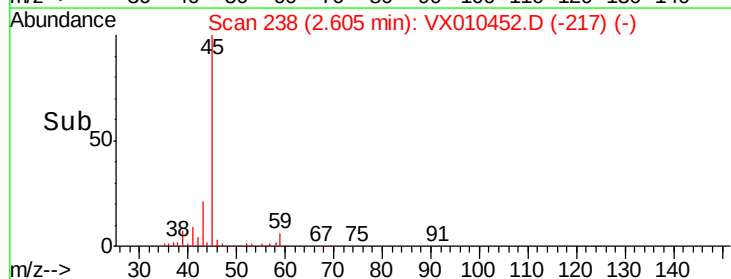
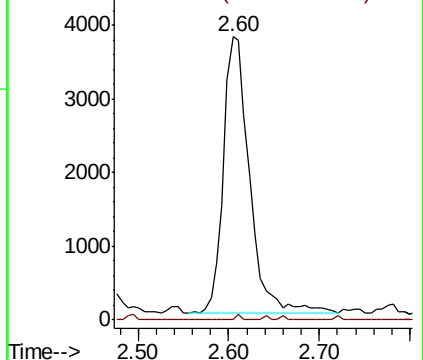
43 100

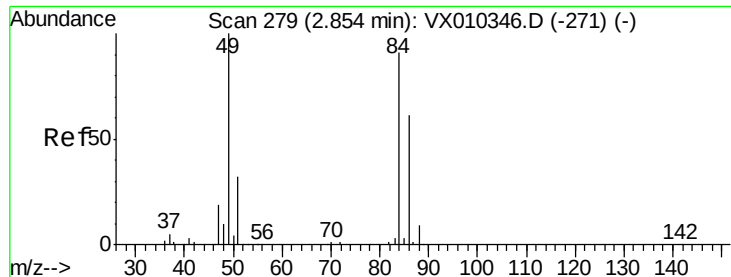
74 0.4 21.3 31.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

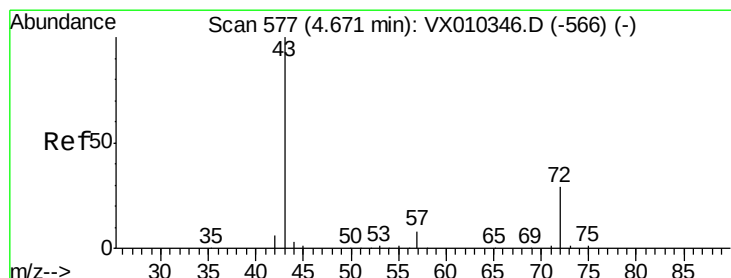
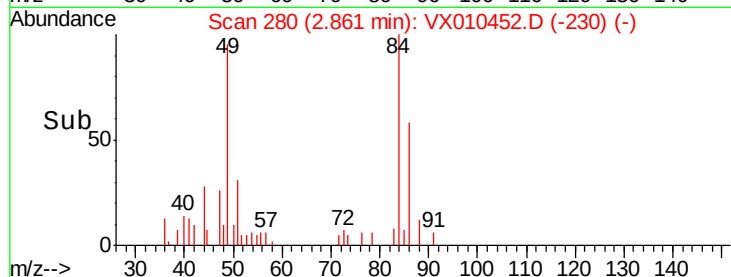
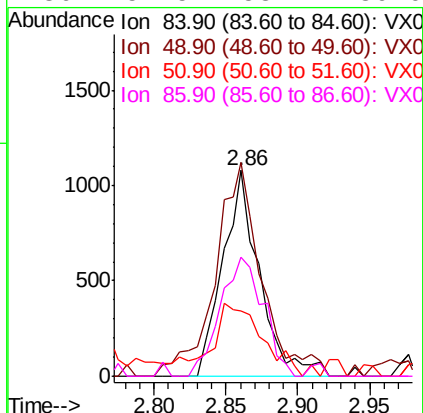
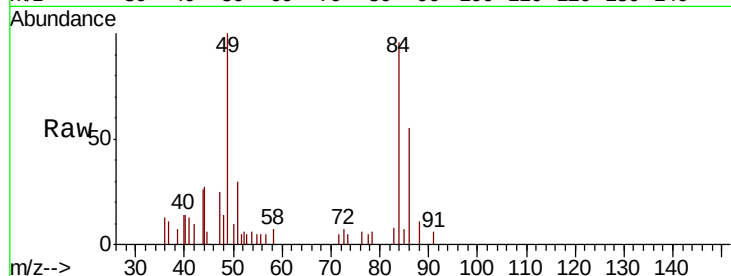




#20
Methylene Chloride
Concen: 0.795 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

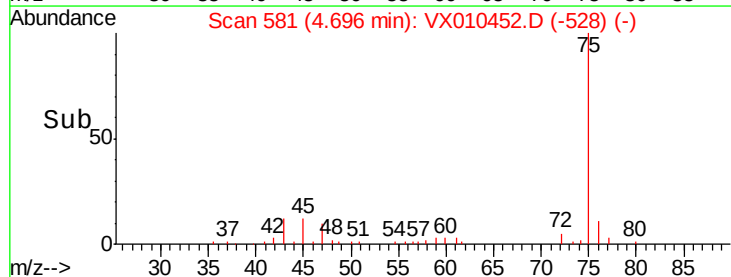
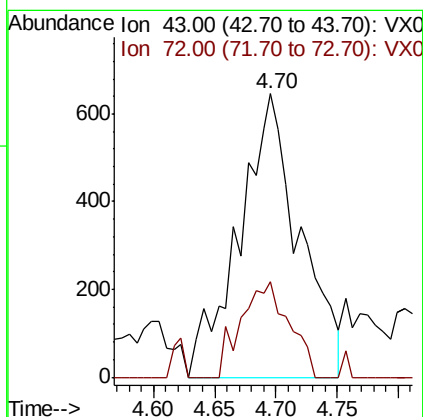
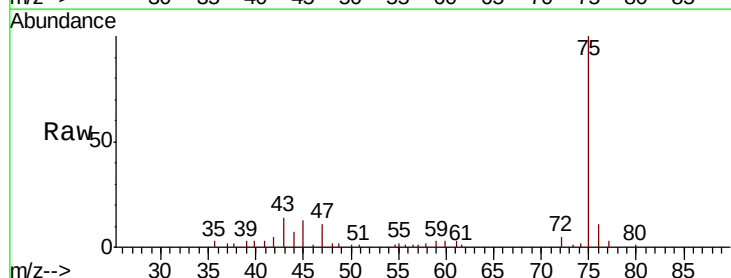
Instrument :
MSVOA_X
ClientSampleId :

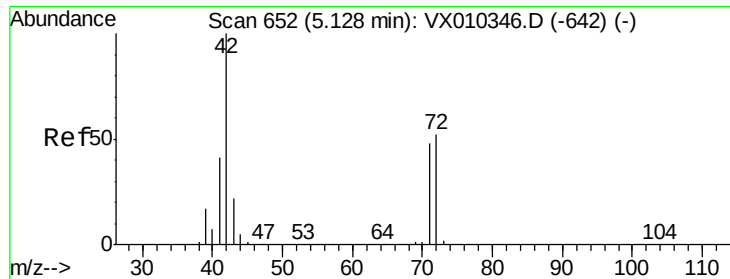
Tot Ion: 84 Resp: 1932
Ion Ratio Lower Upper
84 100
49 103.7 87.5 131.3
51 24.2 27.7 41.5#
86 57.5 53.4 80.0



#25
2-Butanone
Concen: 1.281 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

Tgt Ion: 43 Resp: 2218
Ion Ratio Lower Upper
43 100
72 33.7 23.3 34.9





#29

Tetrahydrofuran

Concen: 0.892 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

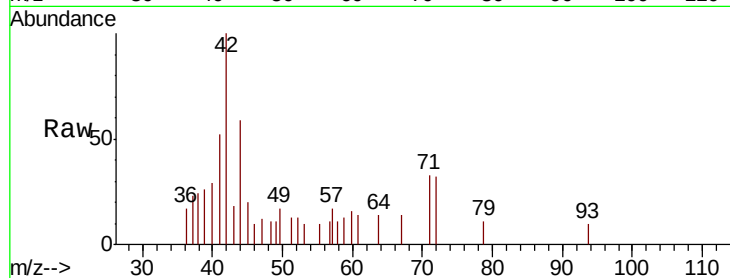
Tot Ion: 42 Resp: 957

Ion Ratio Lower Upper

42 100

72 21.5 40.6 60.8#

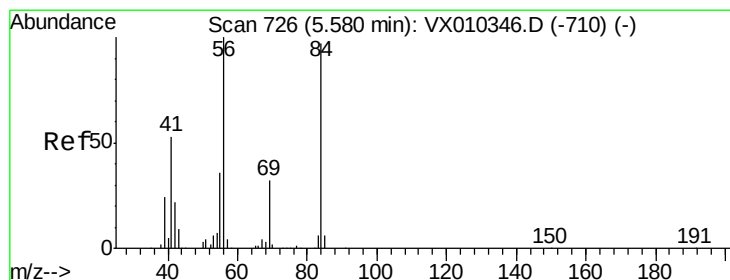
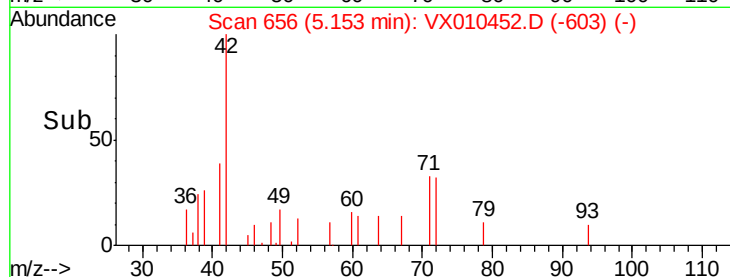
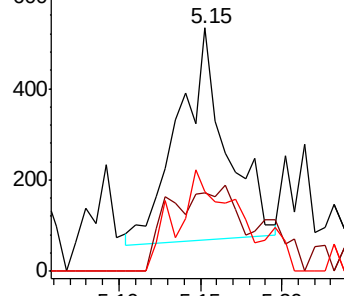
71 63.8 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.266 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

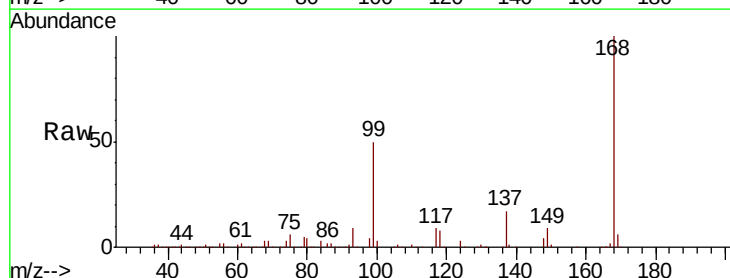
Tgt Ion: 56 Resp: 4308

Ion Ratio Lower Upper

56 100

69 155.5 25.9 38.9#

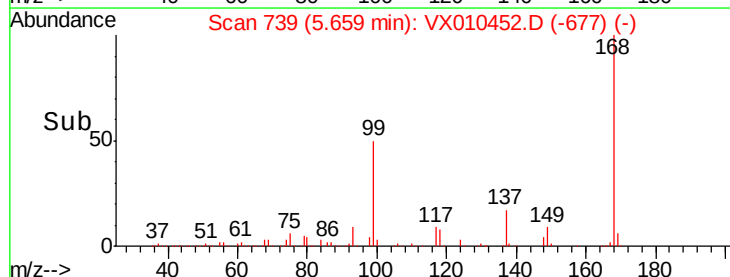
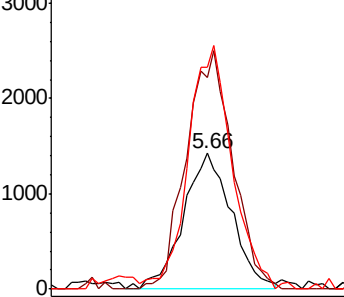
84 163.6 78.0 117.0#

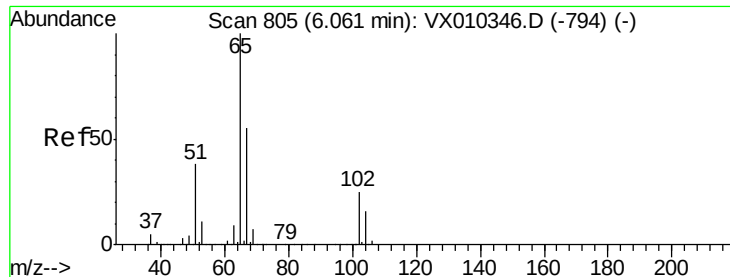


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

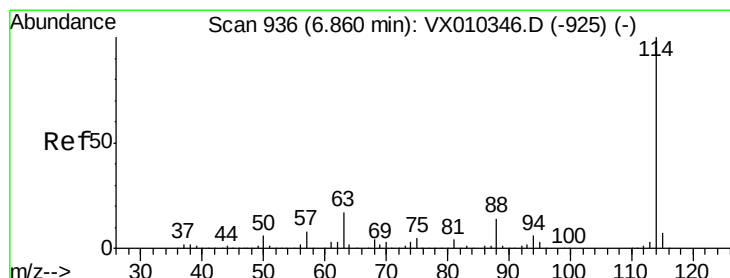
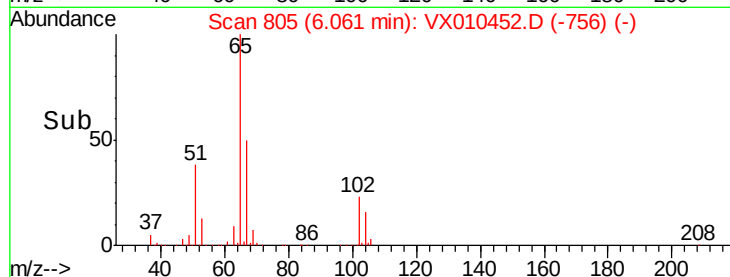
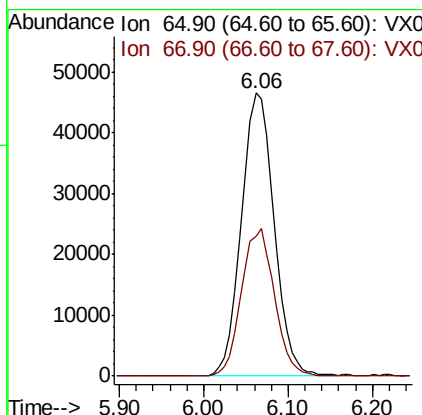
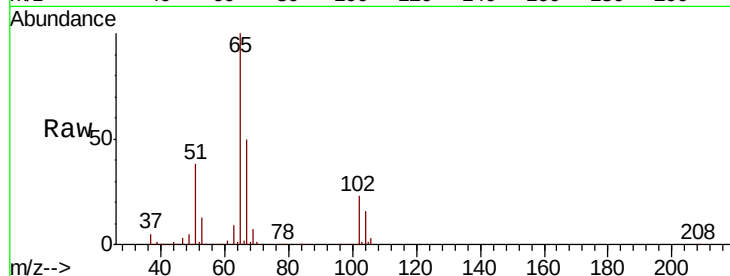




#33
 1,2-Dichloroethane-d4
 Concen: 51.987 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010452.D
 Acq: 26 Jun 2019 11:05

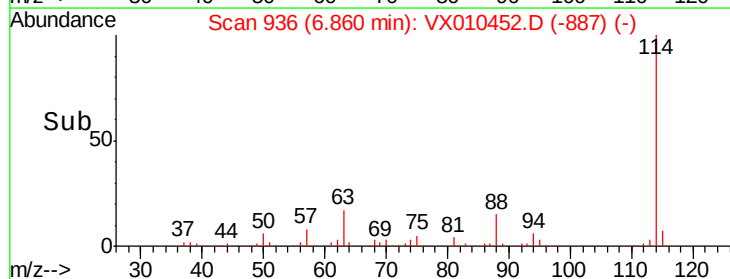
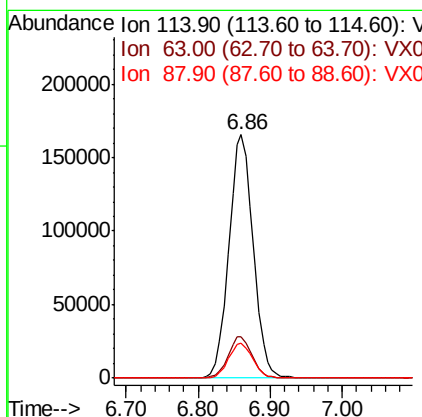
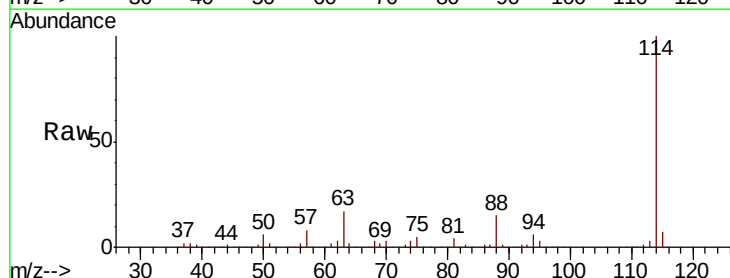
Instrument :
 MSVOA_X
 ClientSampled :

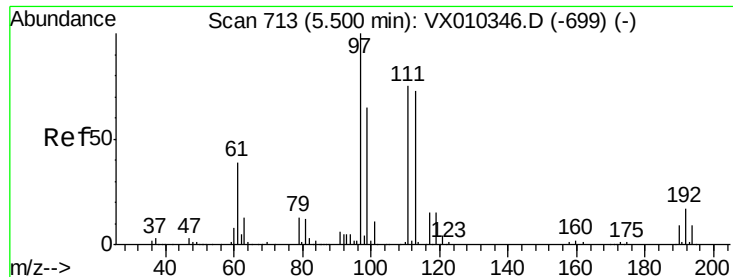
Tot Ion: 65 Resp: 122470
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010452.D
 Acq: 26 Jun 2019 11:05

Tgt Ion: 114 Resp: 388038
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 33.8
 88 14.5 0.0 27.6





#35

Dibromofluoromethane

Concen: 50.060 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

ClientSampled :

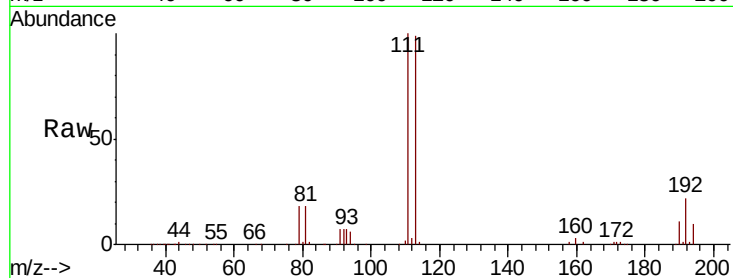
Tot Ion:113 Resp: 118850

Ion Ratio Lower Upper

113 100

111 102.1 81.2 121.8

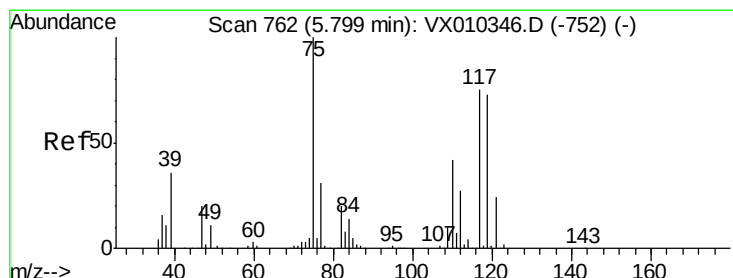
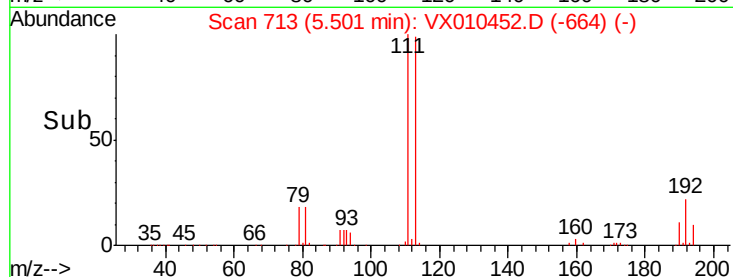
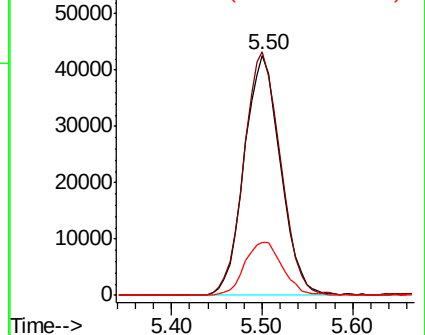
192 23.0 18.6 27.8



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: 4.962 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

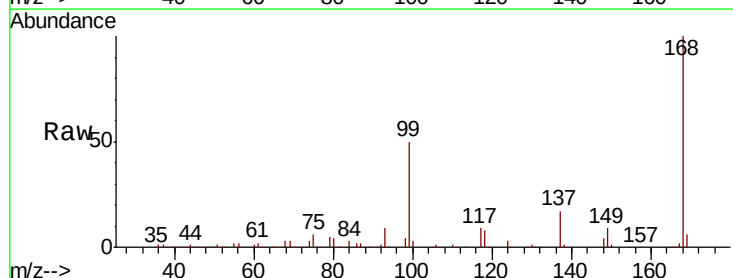
Tgt Ion: 75 Resp: 15300

Ion Ratio Lower Upper

75 100

110 11.0 20.8 62.2#

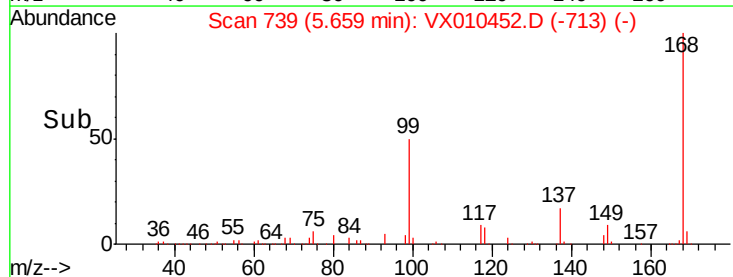
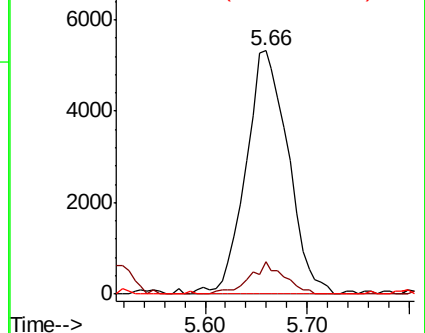
77 0.0 25.4 38.0#

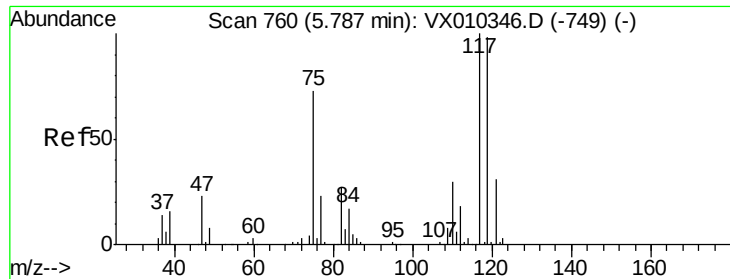


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

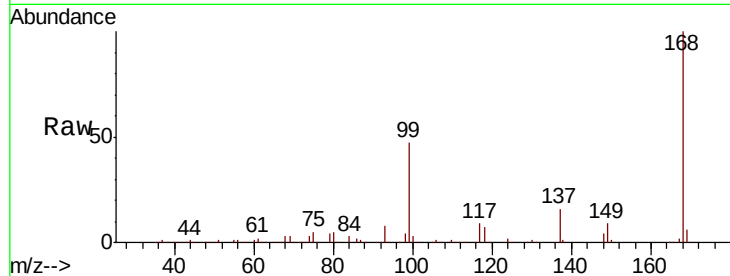




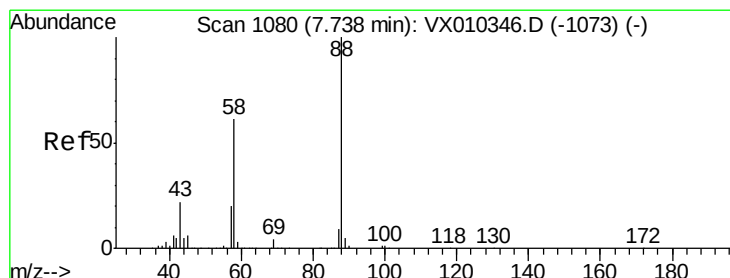
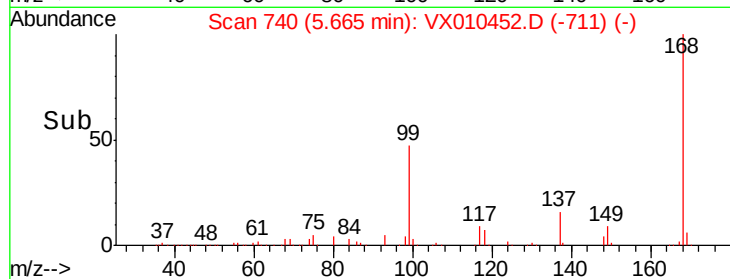
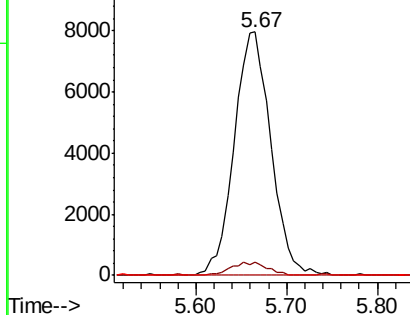
#38
Carbon Tetrachloride
Concen: 6.711 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 22407
Ion Ratio Lower Upper
117 100
119 5.4 78.2 117.4#
121 0.0 24.7 37.1#

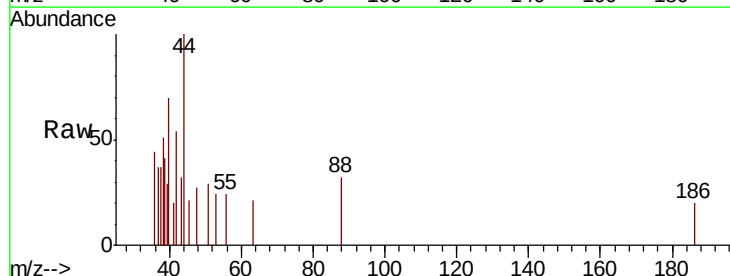


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

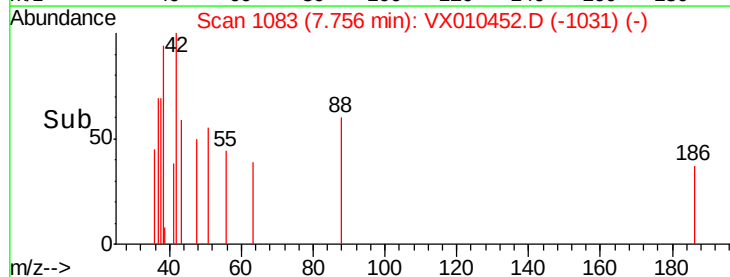
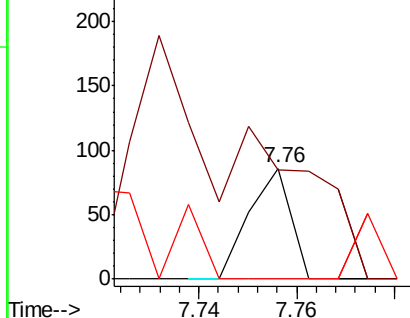


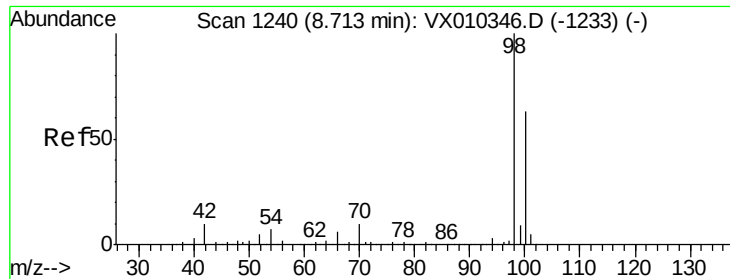
#49
1,4-Dioxane
Concen: 0.711 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

Tgt Ion: 88 Resp: 50
Ion Ratio Lower Upper
88 100
43 0.0 20.2 30.2#
58 0.0 49.5 74.3#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

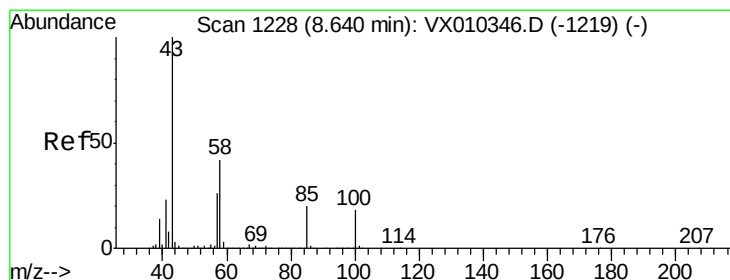
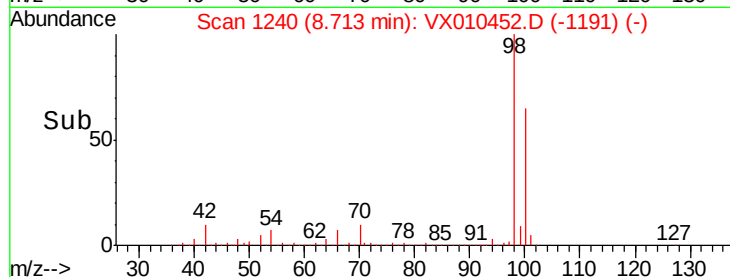
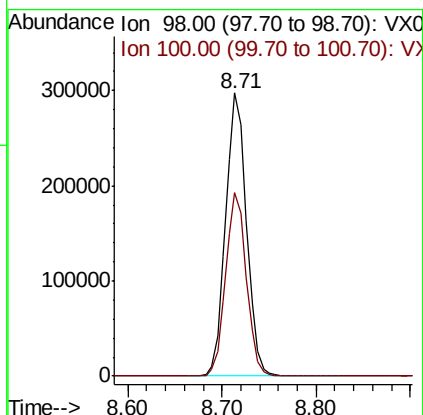
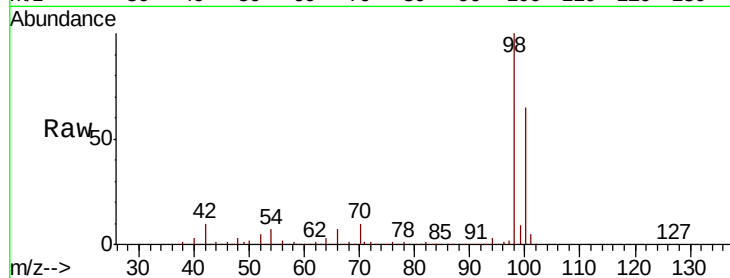




#50
Toluene-d8
Concen: 50.400 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

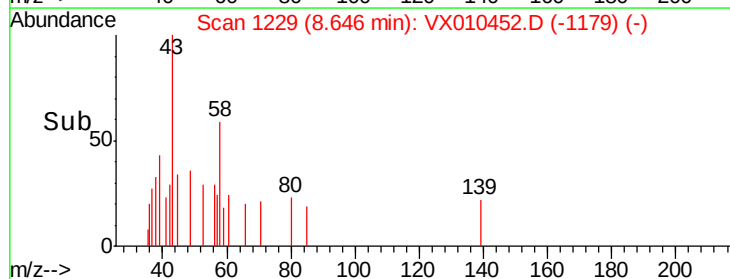
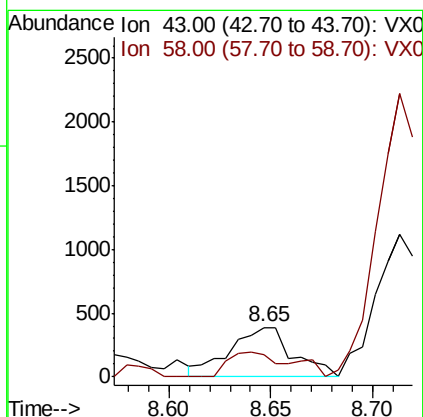
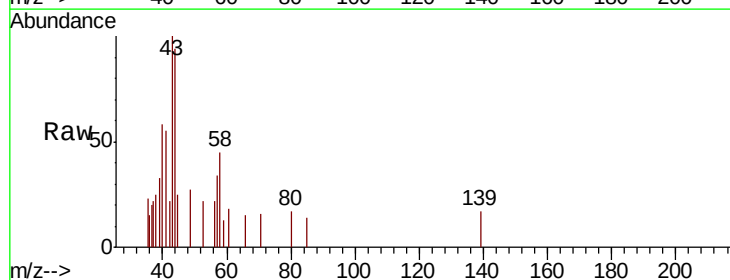
Instrument :
MSVOA_X
ClientSampleId :

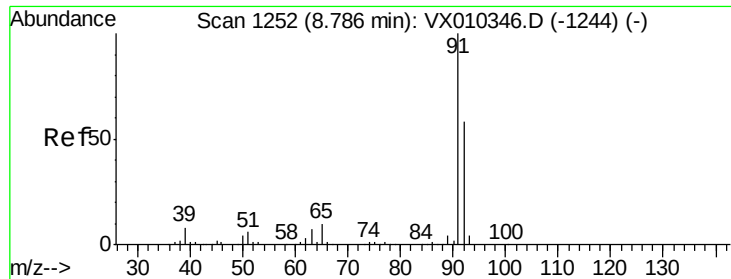
Tot Ion: 98 Resp: 457784
Ion Ratio Lower Upper
98 100
100 64.4 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.249 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.01 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

Tgt Ion: 43 Resp: 837
Ion Ratio Lower Upper
43 100
58 50.1 33.5 50.3





#52

Toluene

Concen: 3.343 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

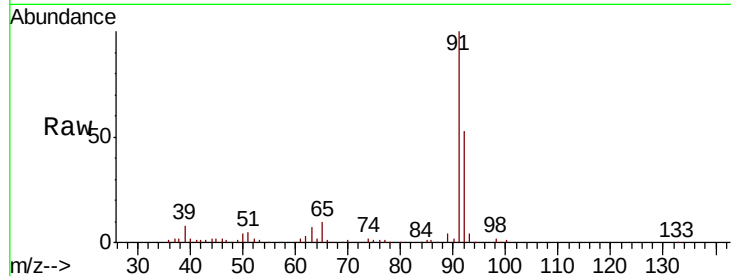
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 92 Resp: 21152

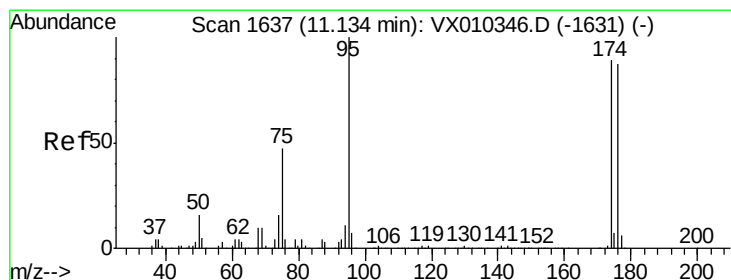
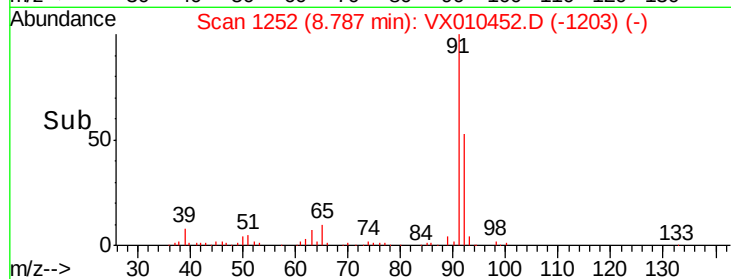
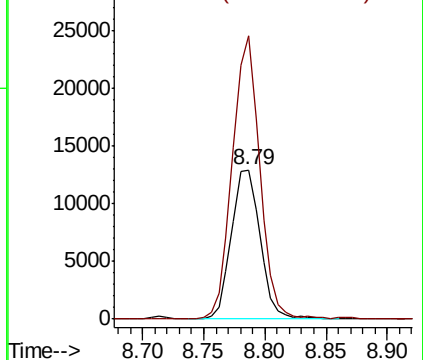
Ion Ratio Lower Upper

92 100

91 180.2 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VX0
Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.790 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

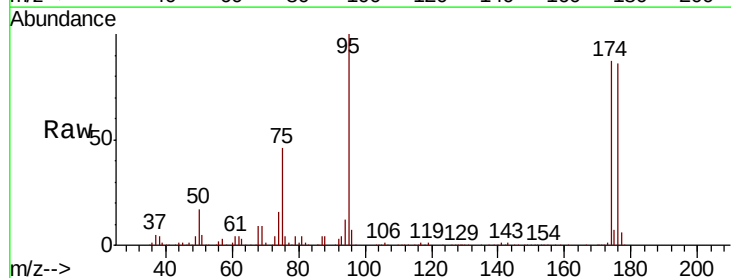
Tgt Ion: 95 Resp: 153435

Ion Ratio Lower Upper

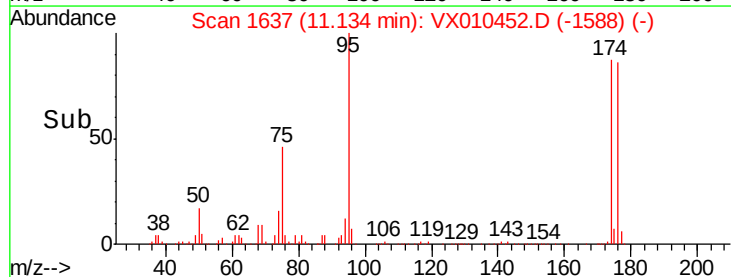
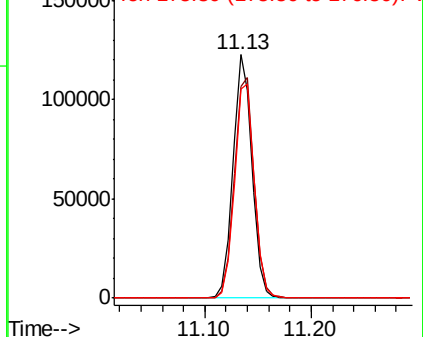
95 100

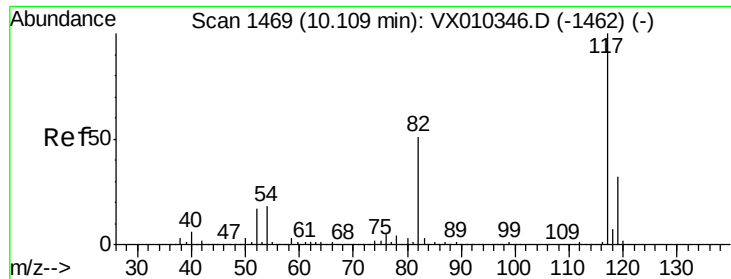
174 94.7 0.0 187.6

176 92.1 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

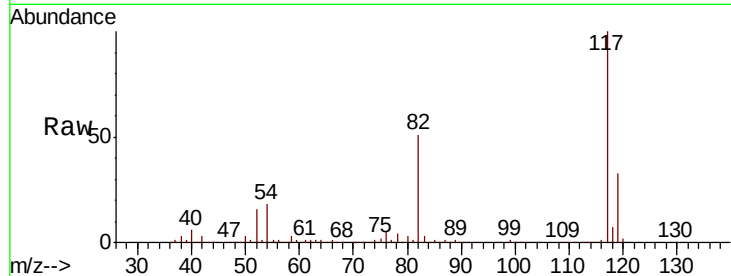




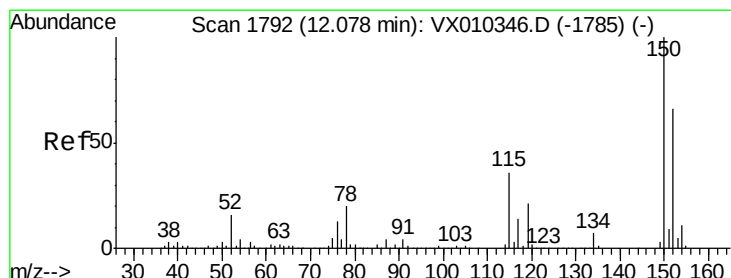
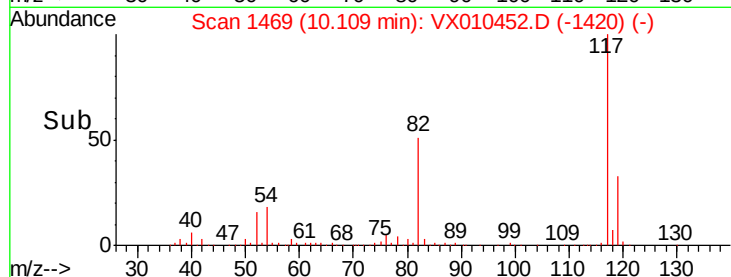
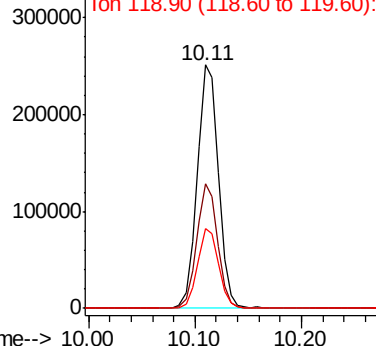
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 350419
Ion Ratio Lower Upper
117 100
82 51.0 41.2 61.8
119 32.7 25.5 38.3

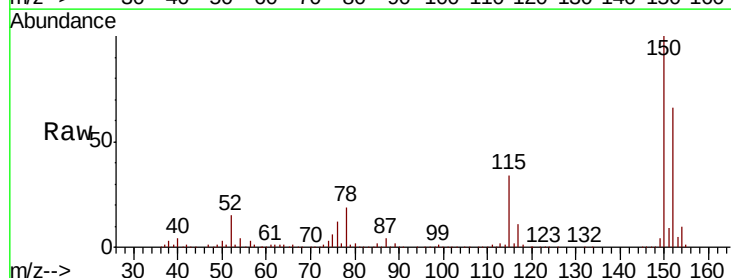


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

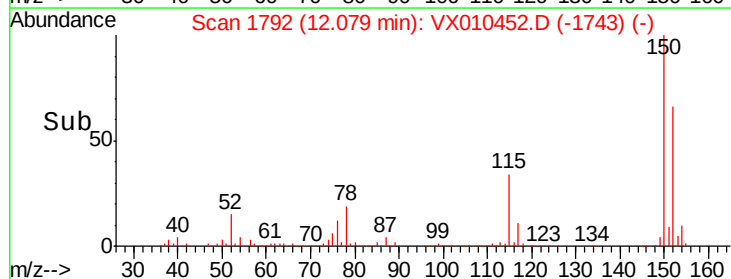
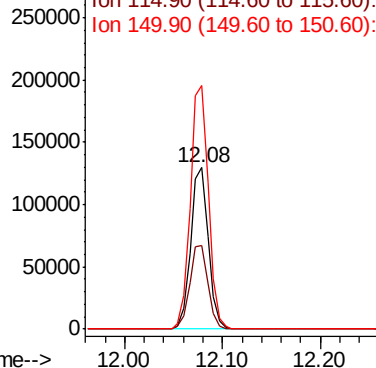


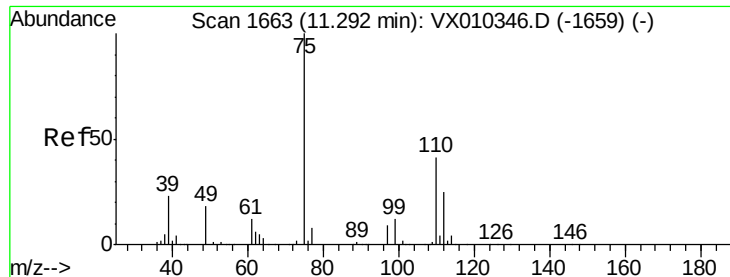
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010452.D
Acq: 26 Jun 2019 11:05

Tgt Ion:152 Resp: 161080
Ion Ratio Lower Upper
152 100
115 53.9 38.6 115.7
150 155.3 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: 24.764 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

Instrument :

MSVOA_X

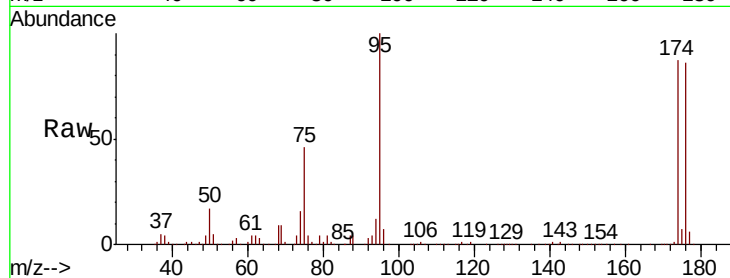
ClientSampleId :

Tot Ion: 75 Resp: 72691

Ion Ratio Lower Upper

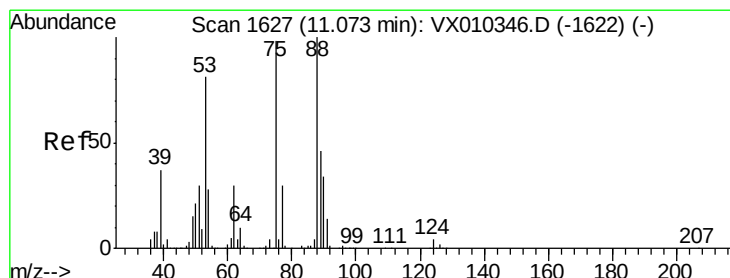
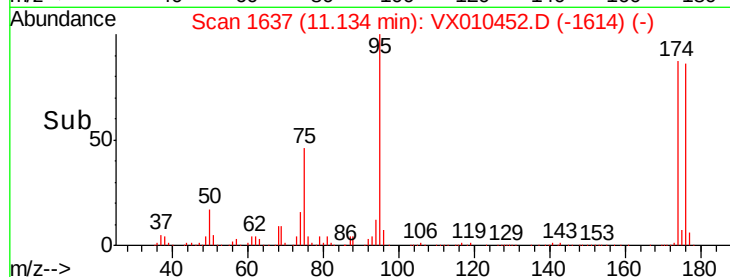
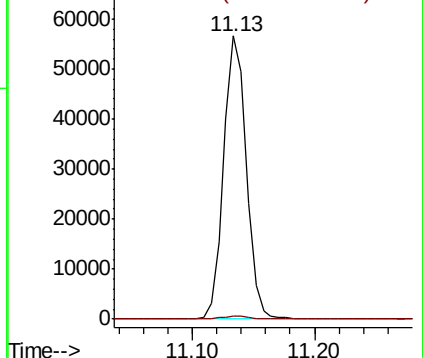
75 100

77 1.5 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 57.773 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010452.D

Acq: 26 Jun 2019 11:05

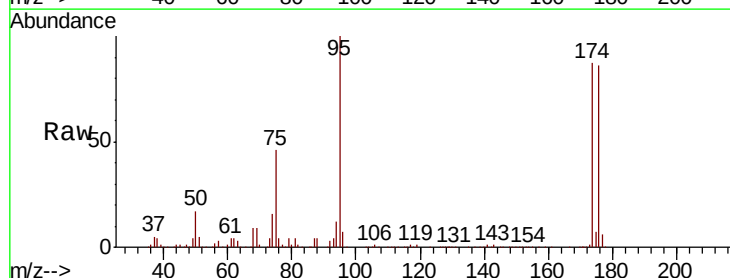
Tgt Ion: 75 Resp: 72691

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.1 37.8 56.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

