

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062019\
 Data File : VX010352.D
 Acq On : 20 Jun 2019 11:33
 Operator : JC/SP
 Sample : VX0620WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620WBL01

Quant Time: Jun 21 01:20:20 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	5.66	168	309403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	466567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	411756	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185052	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	146335	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
35) Dibromofluoromethane	5.49	113	149509	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	
50) Toluene-d8	8.71	98	566221	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.13	95	187591	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	

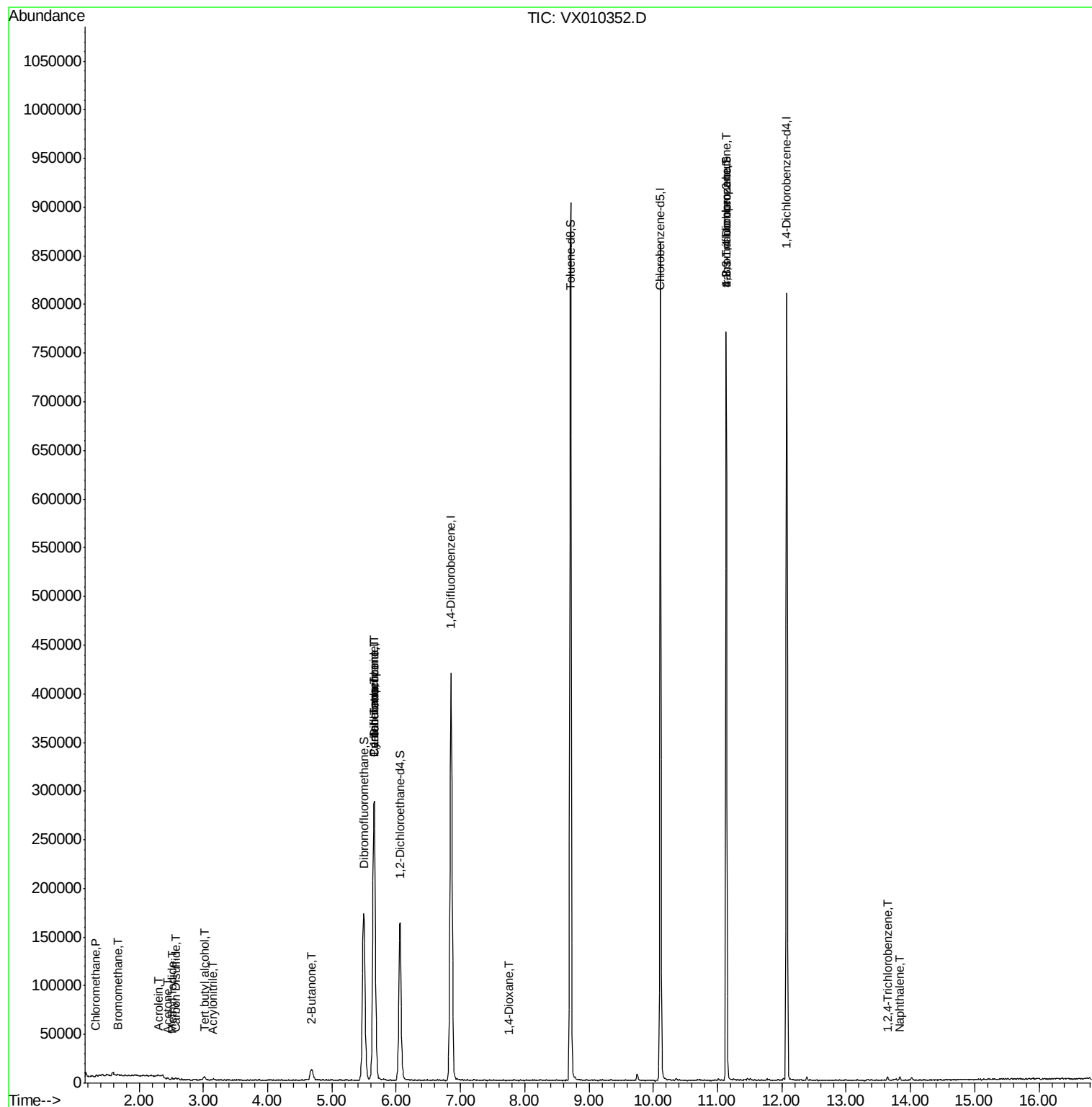
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	924	0.369	ug/l #	66
5) Bromomethane	1.66	94	842	0.630	ug/l	84
10) Methyl Iodide	2.51	142	1659	0.441	ug/l #	94
11) Tert butyl alcohol	3.01	59	2143	2.823	ug/l #	74
13) Acrolein	2.29	56	691	1.372	ug/l #	61
15) Acrylonitrile	3.15	53	348	0.232	ug/l #	62
16) Acetone	2.44	43	1069	0.735	ug/l	94
17) Carbon Disulfide	2.57	76	2199	0.306	ug/l #	74
25) 2-Butanone	4.68	43	981	0.460	ug/l #	46
31) Cyclohexane	5.66	56	5520	1.317	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	18918	5.102	ug/l #	48
38) Carbon Tetrachloride	5.66	117	27096	6.749	ug/l #	15
49) 1,4-Dioxane	7.76	88	28	0.331	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	87852	26.052	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	87852	60.777	ug/l #	16
93) 1,2,4-Trichlorobenzene	13.65	180	891	0.211	ug/l	96
95) Naphthalene	13.83	128	2604	0.201	ug/l #	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

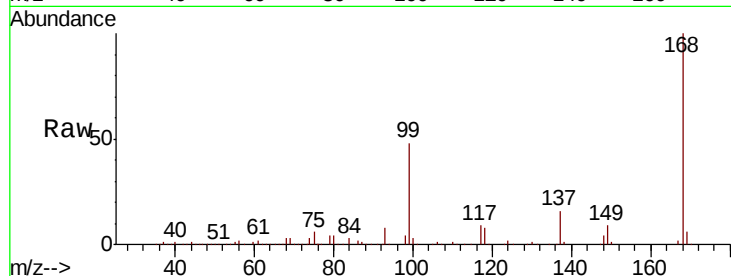
VX0620WBL01

Tot Ion:168 Resp: 309403

Ion Ratio Lower Upper

168 100

99 47.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

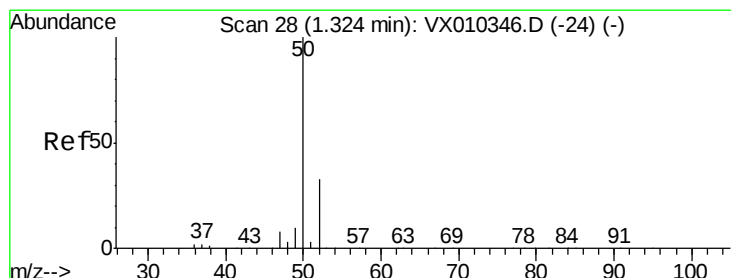
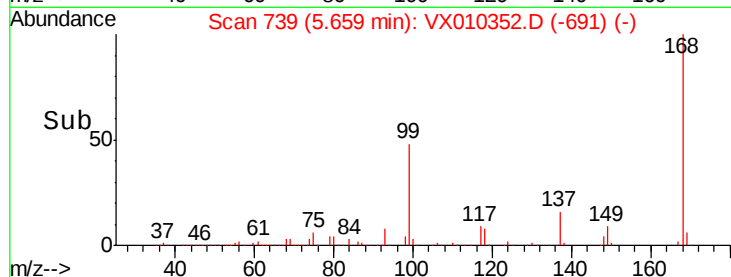
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.369 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010352.D

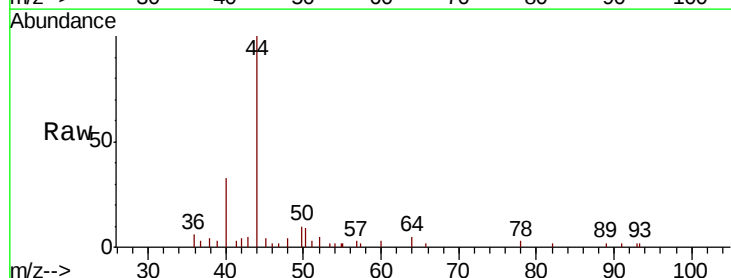
Acq: 20 Jun 2019 11:33

Tgt Ion: 50 Resp: 924

Ion Ratio Lower Upper

50 100

52 13.6 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

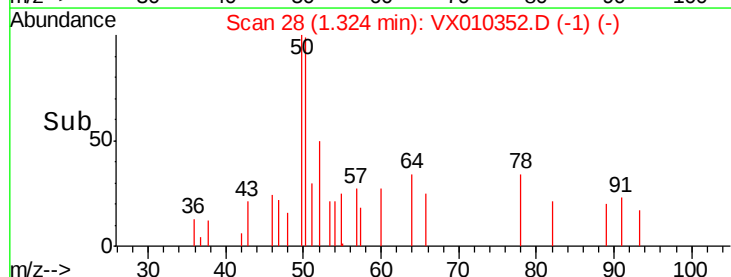
600

400

200

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.630 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

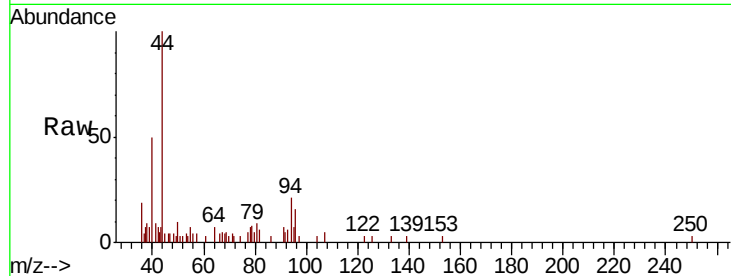
VX0620WBL01

Tot Ion: 94 Resp: 842

Ion Ratio Lower Upper

94 100

96 78.6 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

200

100

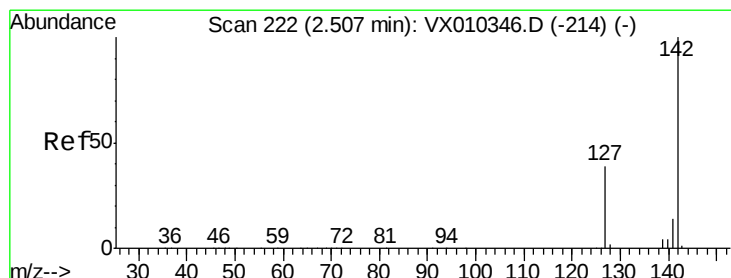
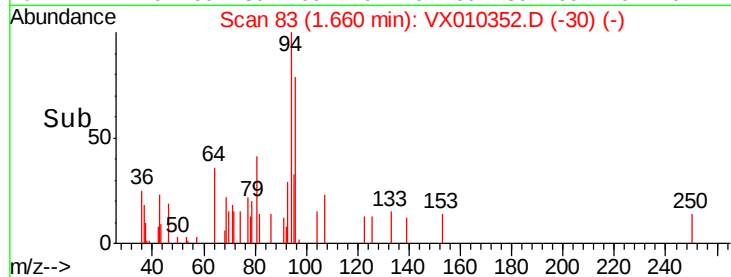
0

1.60

1.65

1.70

Time-->



#10

Methyl Iodide

Concen: 0.441 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

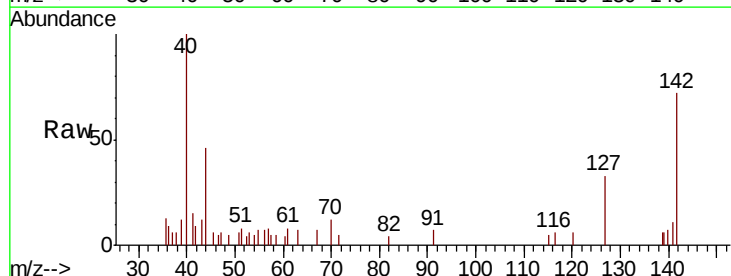
Tgt Ion: 142 Resp: 1659

Ion Ratio Lower Upper

142 100

127 41.2 31.1 46.7

141 8.6 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

1000

800

600

400

200

0

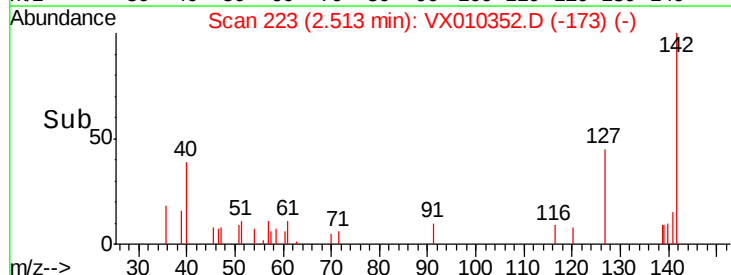
2.45

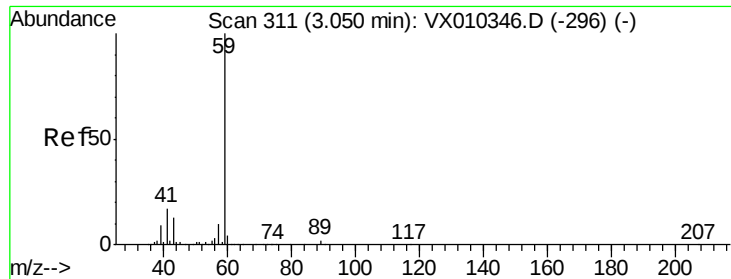
2.50

2.55

2.60

Time-->

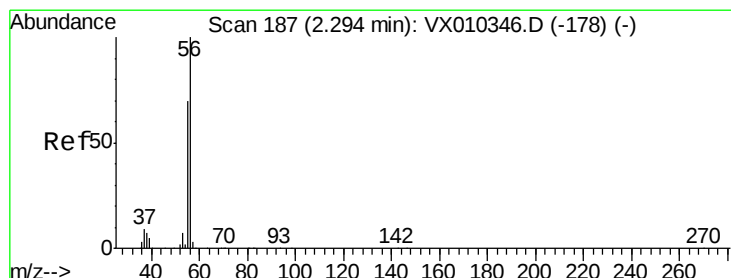
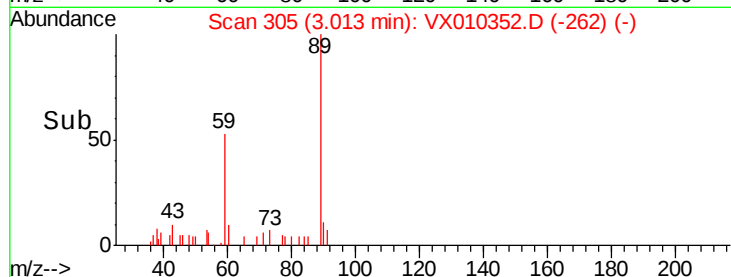
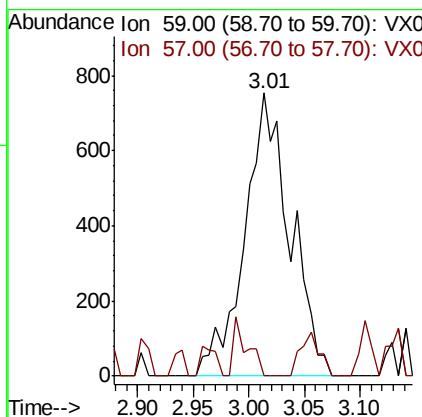
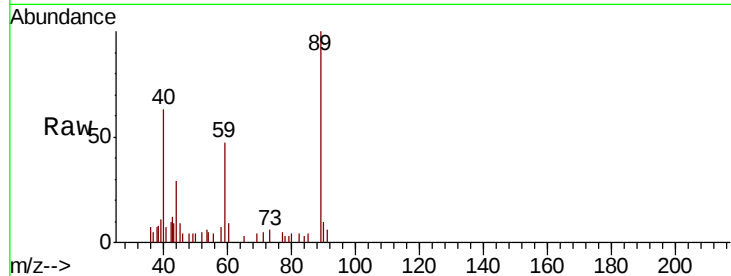




#11
Tert butyl alcohol
Concen: 2.823 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010352.D
Acq: 20 Jun 2019 11:33

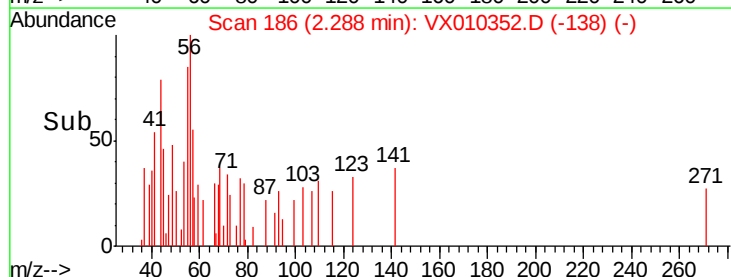
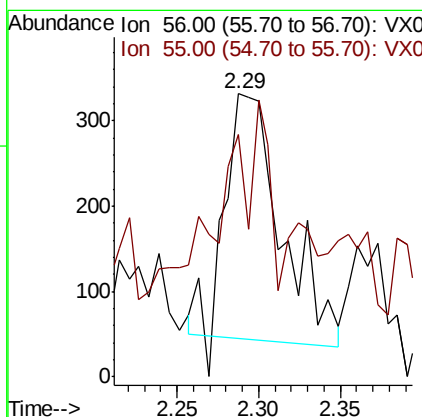
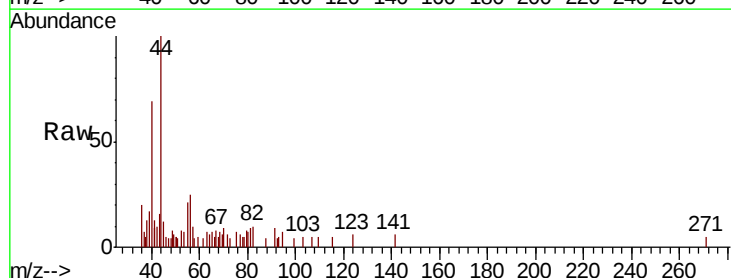
Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

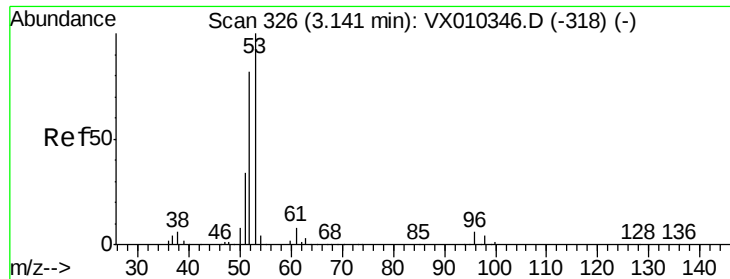
Tot Ion: 59 Resp: 2143
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#



#13
Acrolein
Concen: 1.372 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX010352.D
Acq: 20 Jun 2019 11:33

Tgt Ion: 56 Resp: 691
Ion Ratio Lower Upper
56 100
55 38.5 56.9 85.3#





#15

Acrylonitrile

Concen: 0.232 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampled :

VX0620WBL01

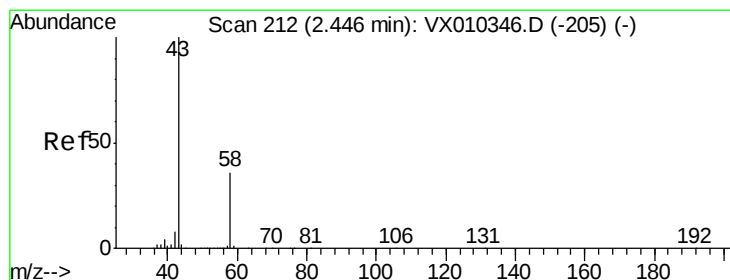
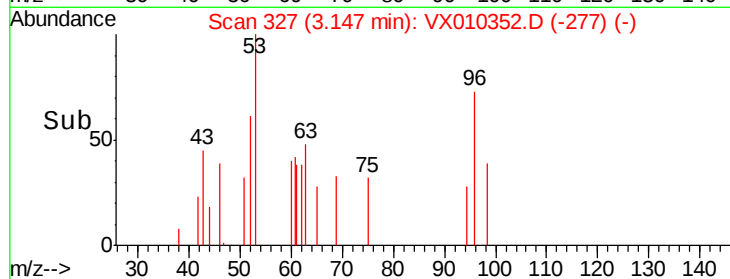
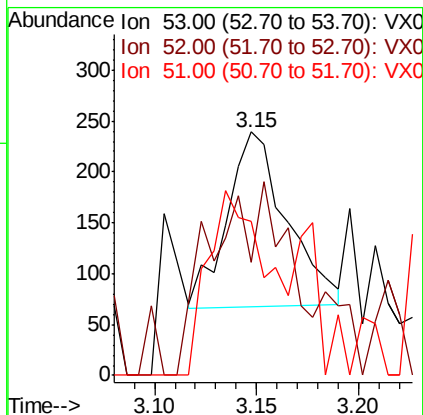
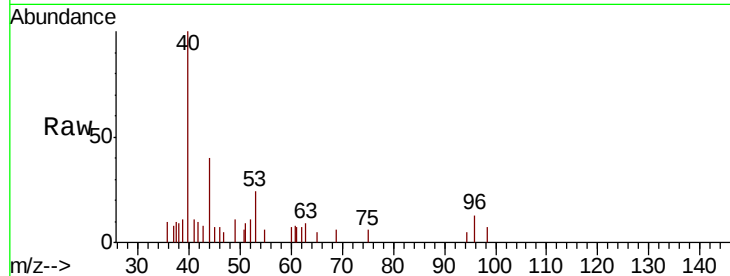
Tot Ion: 53 Resp: 348

Ion Ratio Lower Upper

53 100

52 79.6 65.5 98.3

51 104.6 28.2 42.4#



#16

Acetone

Concen: 0.735 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010352.D

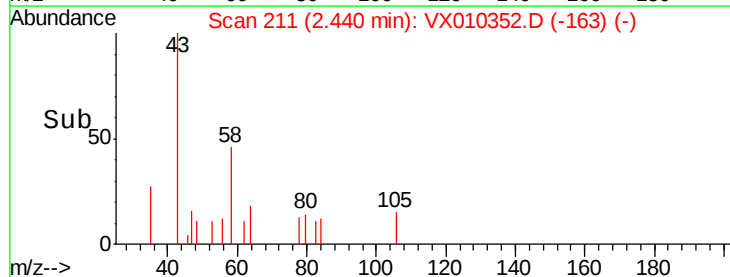
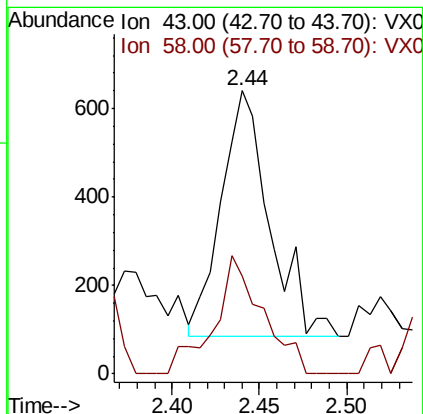
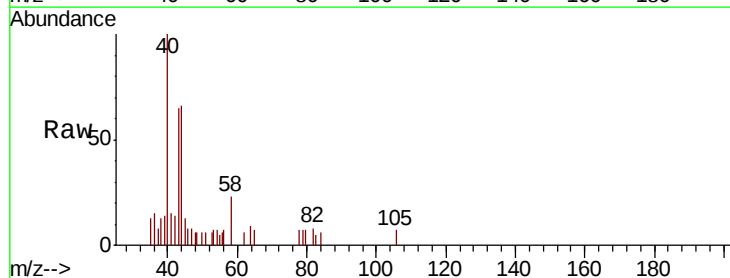
Acq: 20 Jun 2019 11:33

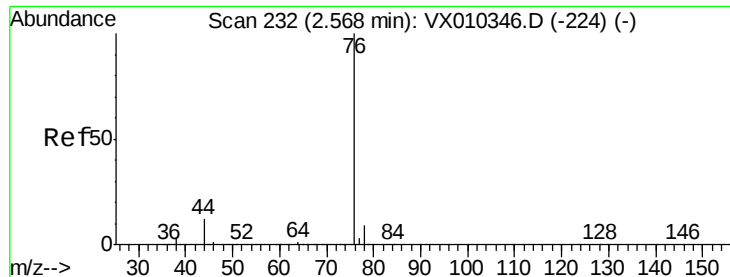
Tgt Ion: 43 Resp: 1069

Ion Ratio Lower Upper

43 100

58 39.8 28.9 43.3

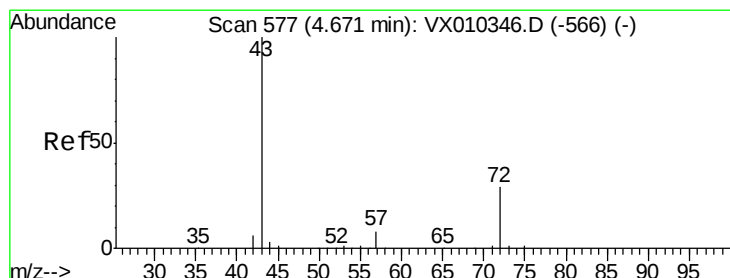
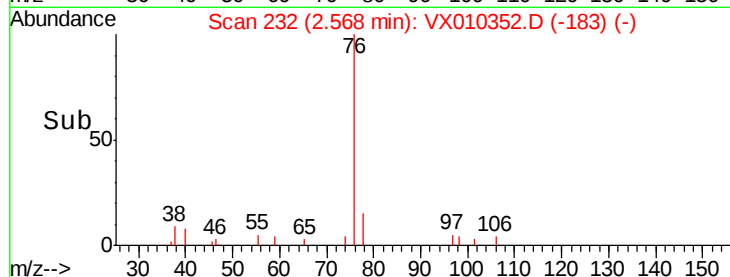
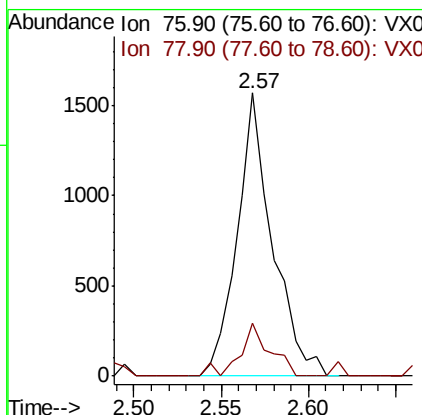
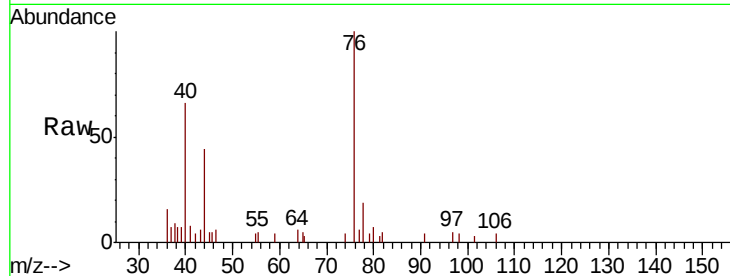




#17
Carbon Disulfide
Concen: 0.306 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX010352.D
Acq: 20 Jun 2019 11:33

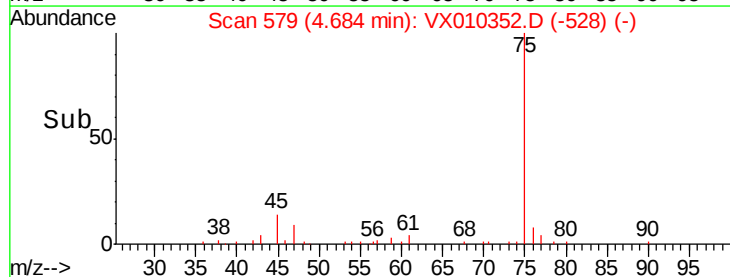
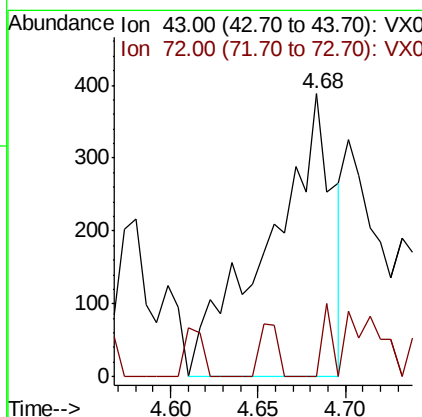
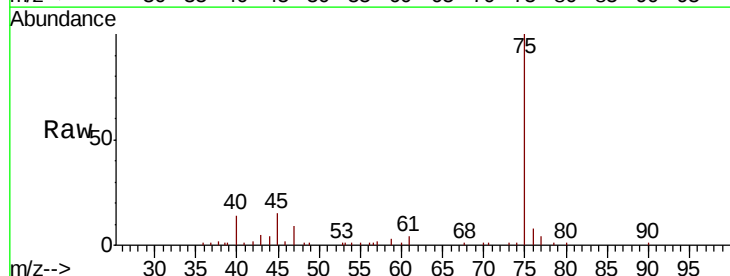
Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

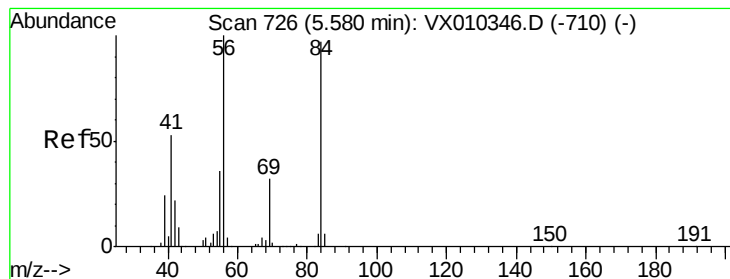
Tot Ion: 76 Resp: 2199
Ion Ratio Lower Upper
76 100
78 18.6 7.3 10.9#



#25
2-Butanone
Concen: 0.460 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX010352.D
Acq: 20 Jun 2019 11:33

Tgt Ion: 43 Resp: 981
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#





#31

Cyclohexane

Concen: 1.317 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0620WBL01

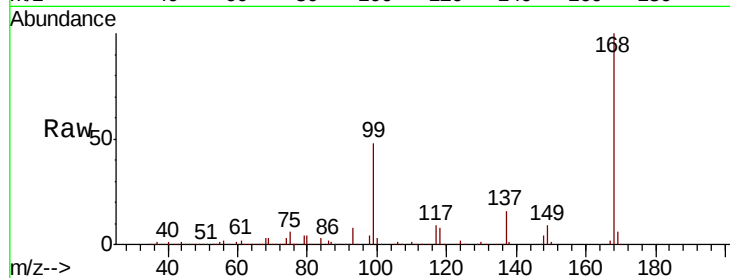
Tot Ion: 56 Resp: 5520

Ion Ratio Lower Upper

56 100

69 158.6 25.9 38.9#

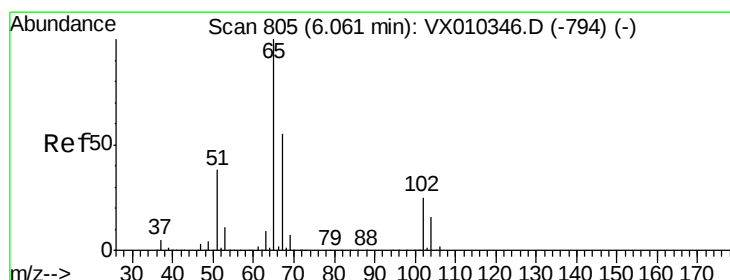
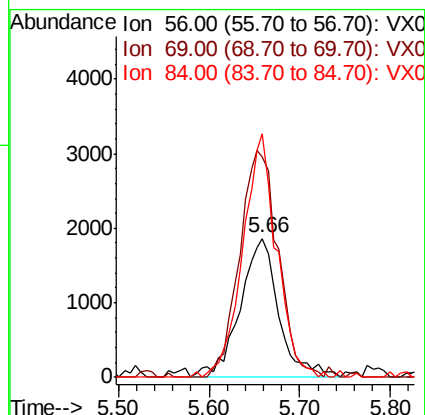
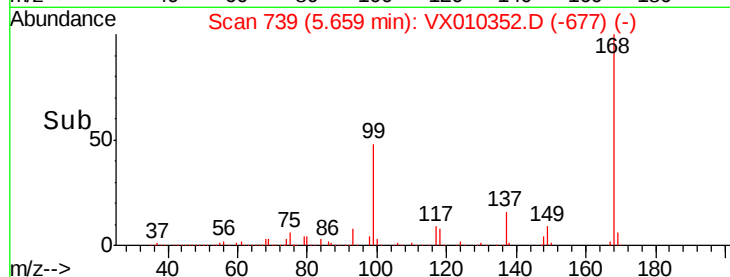
84 175.3 78.0 117.0#



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: 50.444 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX010352.D

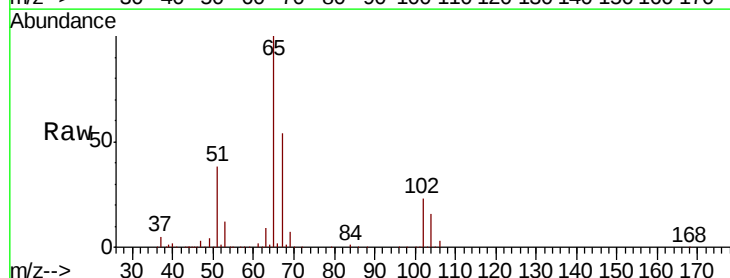
Acq: 20 Jun 2019 11:33

Tgt Ion: 65 Resp: 146335

Ion Ratio Lower Upper

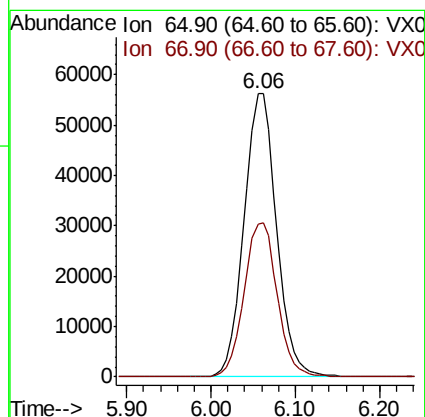
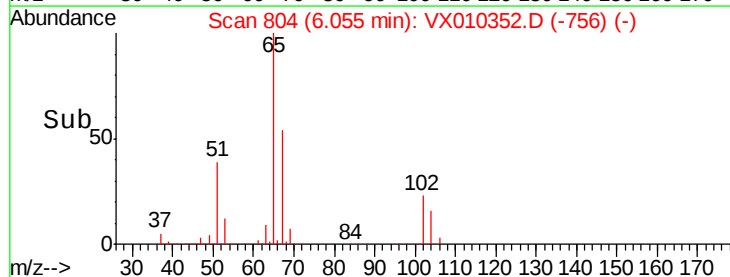
65 100

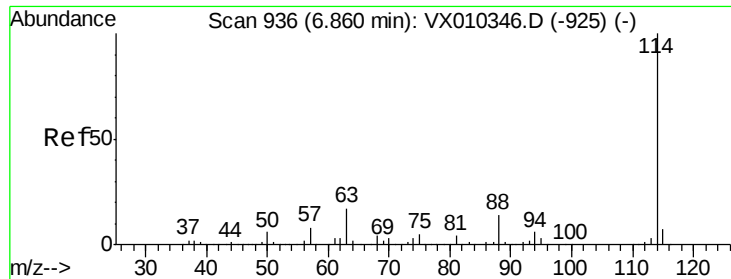
67 55.5 0.0 110.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

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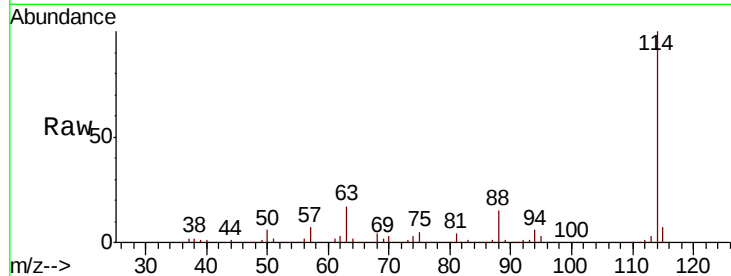
Tot Ion:114 Resp: 466567

Ion Ratio Lower Upper

114 100

63 16.8 0.0 33.8

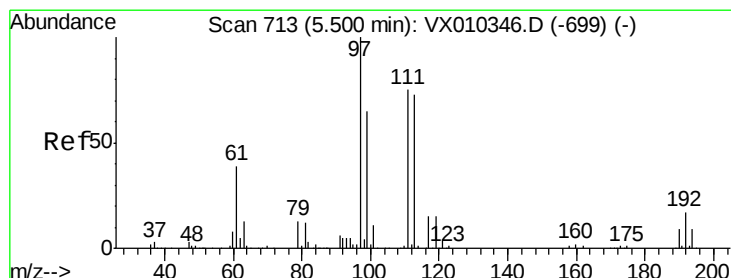
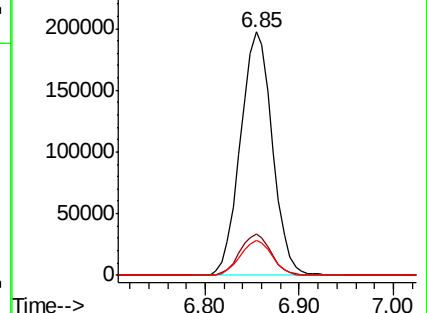
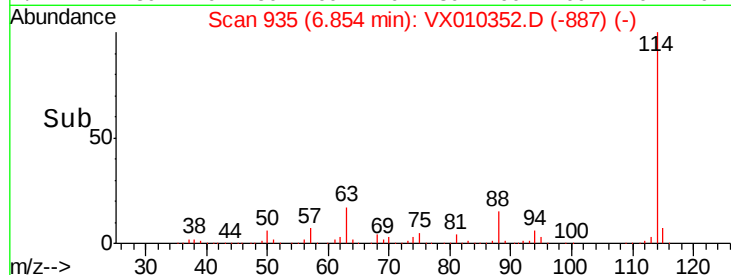
88 14.6 0.0 27.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 52.374 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

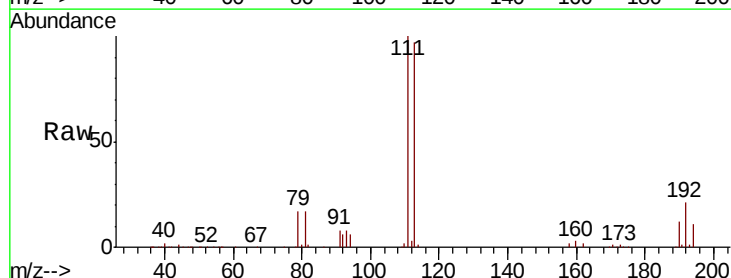
Tgt Ion:113 Resp: 149509

Ion Ratio Lower Upper

113 100

111 102.1 81.2 121.8

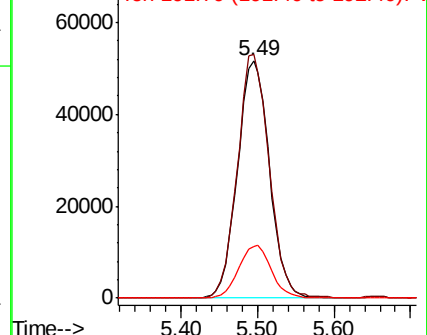
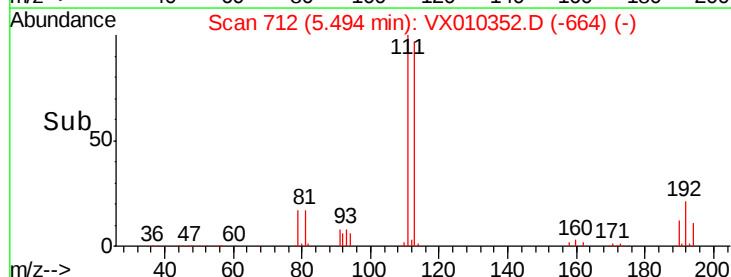
192 22.5 18.6 27.8

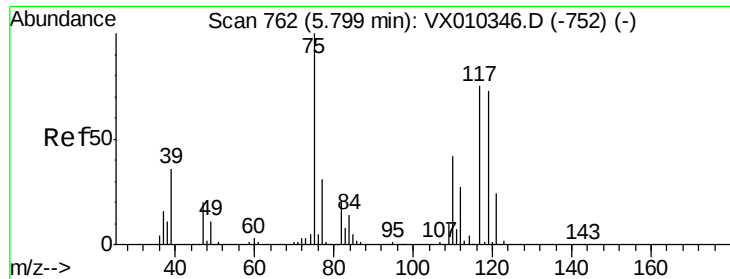


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

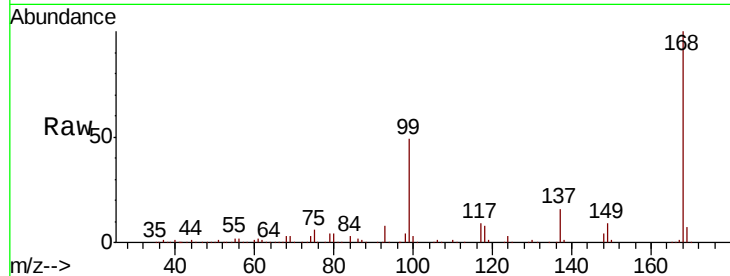




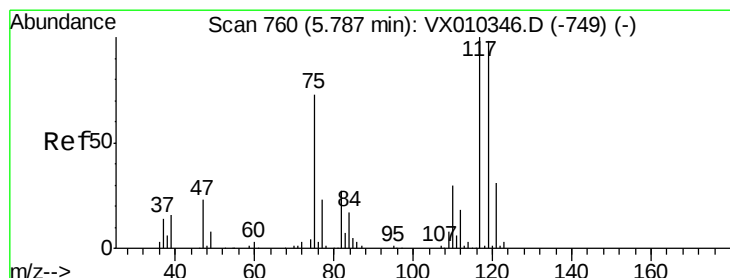
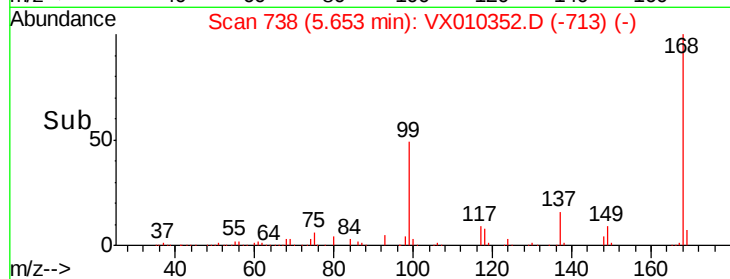
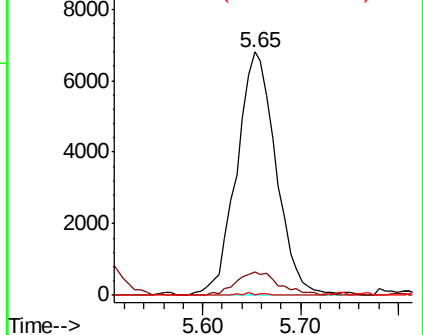
#36
 1,1-Dichloropropene
 Concen: 5.102 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX010352.D
 Acq: 20 Jun 2019 11:33

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620WBL01

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.8	62.2#
77	0.2	25.4	38.0#

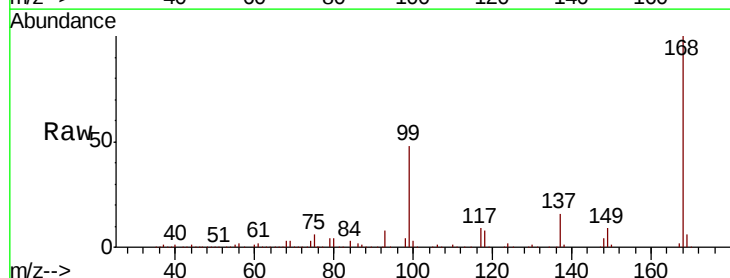


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

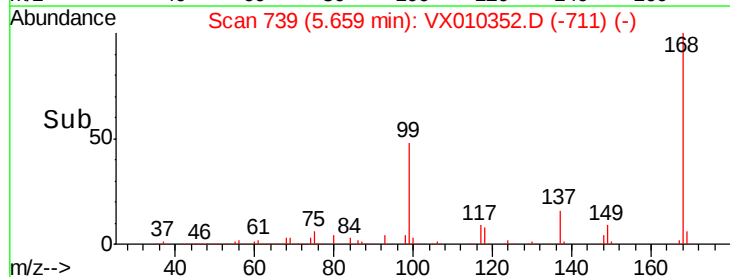
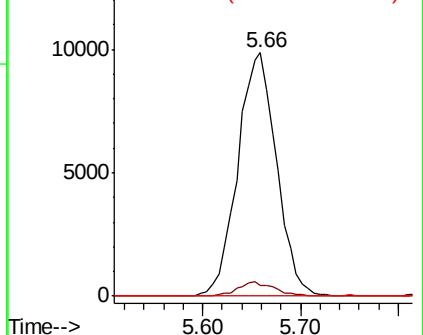


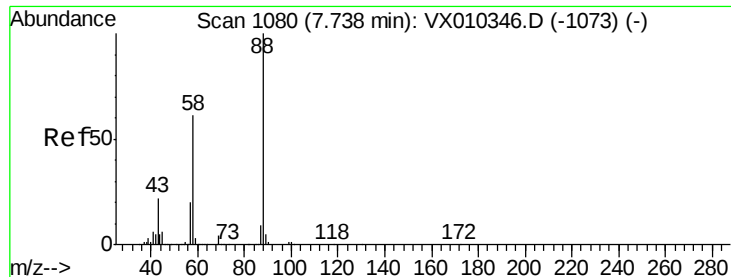
#38
 Carbon Tetrachloride
 Concen: 6.749 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX010352.D
 Acq: 20 Jun 2019 11:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	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: 0.331 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0620WBL01

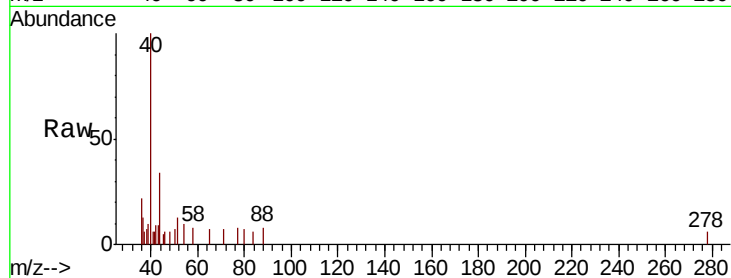
Tot Ion: 88 Resp: 28

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

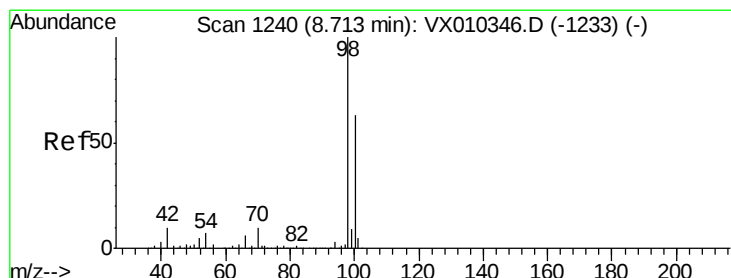
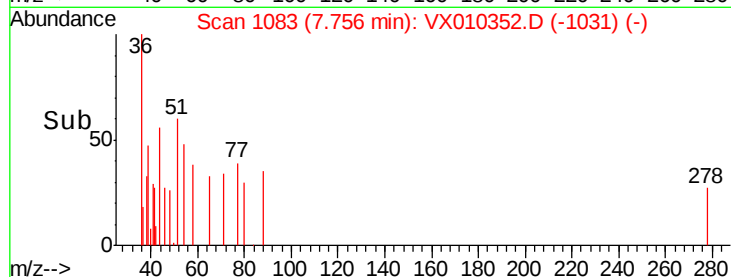
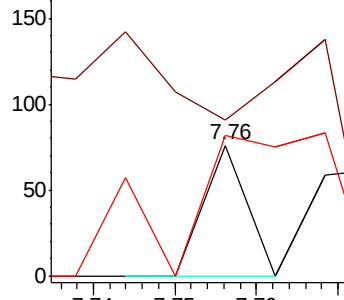
58 0.0 49.5 74.3#



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: 51.846 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010352.D

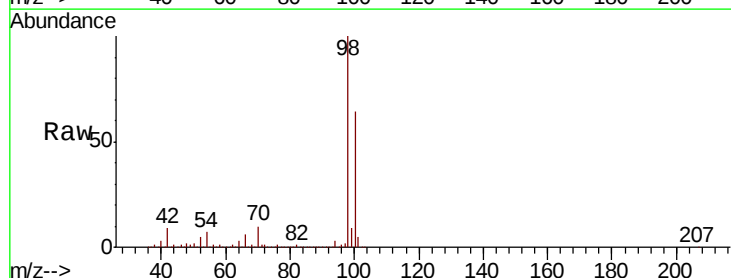
Acq: 20 Jun 2019 11:33

Tgt Ion: 98 Resp: 566221

Ion Ratio Lower Upper

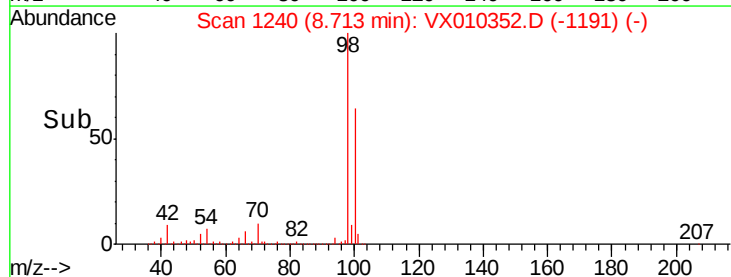
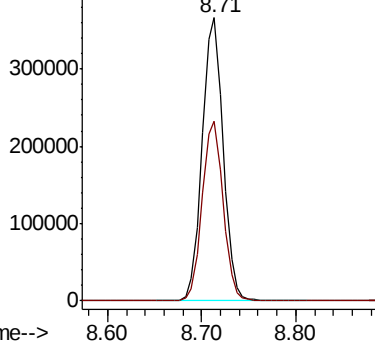
98 100

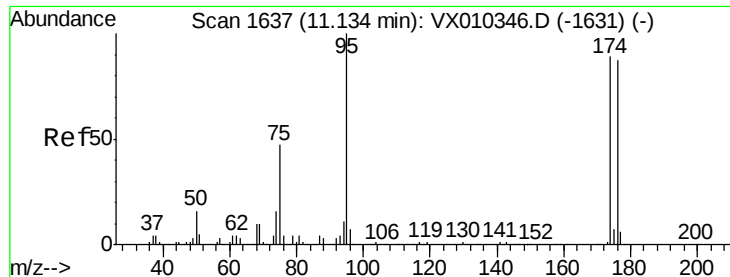
100 63.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.577 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0620WBL01

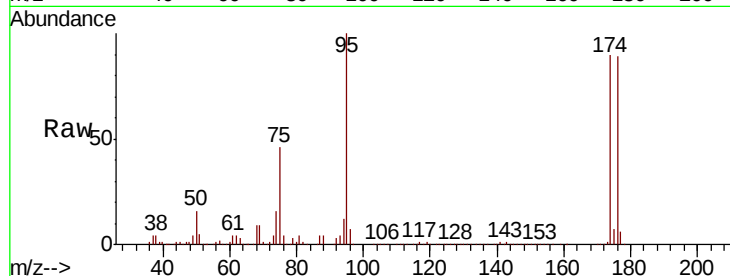
Tot Ion: 95 Resp: 187591

Ion Ratio Lower Upper

95 100

174 95.2 0.0 187.6

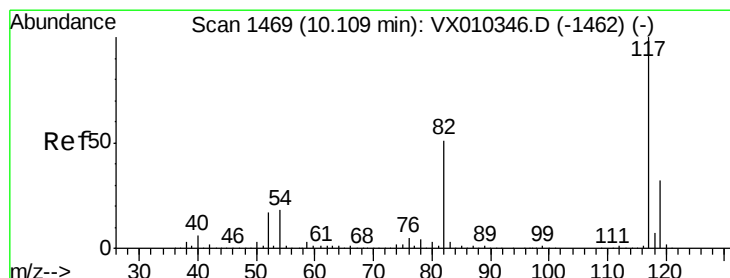
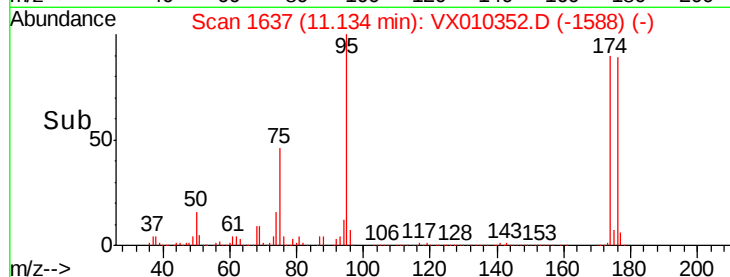
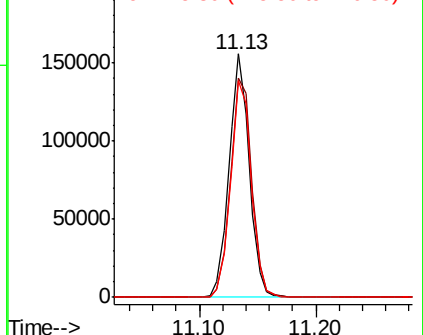
176 91.7 0.0 184.0



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: VX010352.D

Acq: 20 Jun 2019 11:33

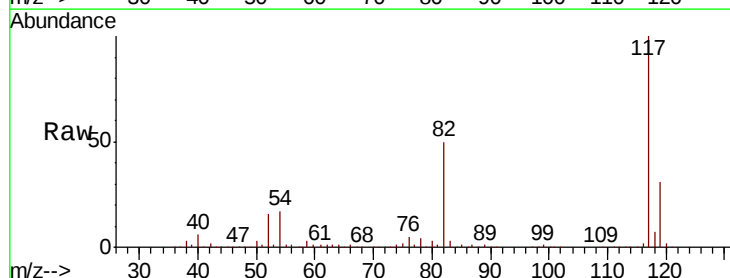
Tgt Ion: 117 Resp: 411756

Ion Ratio Lower Upper

117 100

82 49.7 41.2 61.8

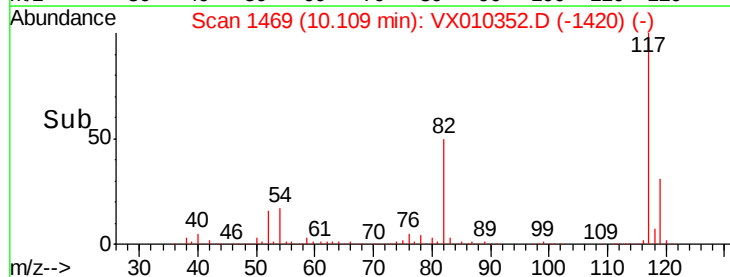
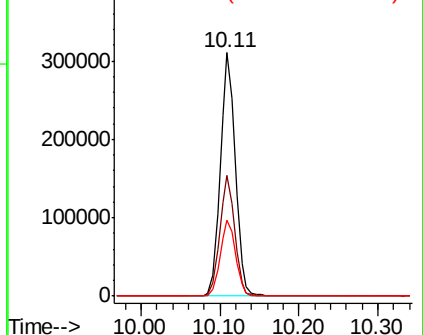
119 31.1 25.5 38.3

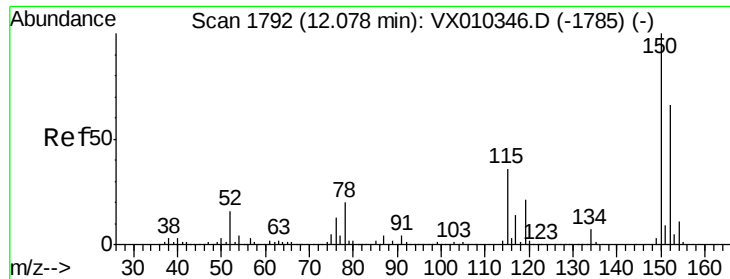


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0620WBL01

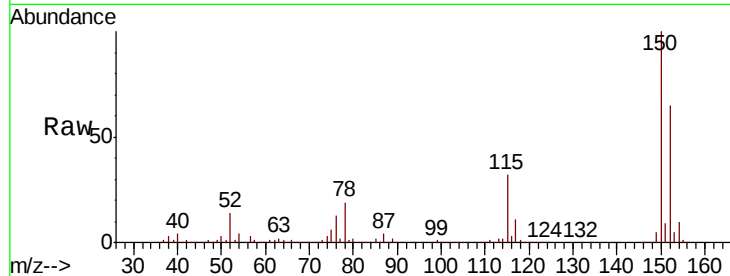
Tot Ion:152 Resp: 185052

Ion Ratio Lower Upper

152 100

115 53.0 38.6 115.7

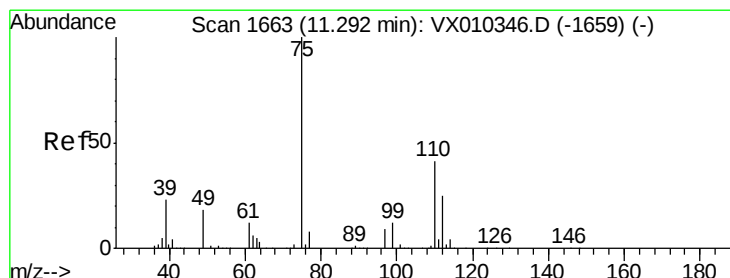
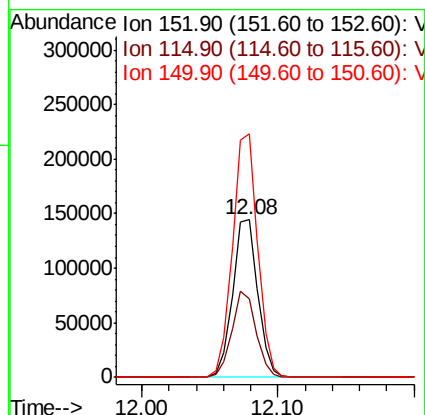
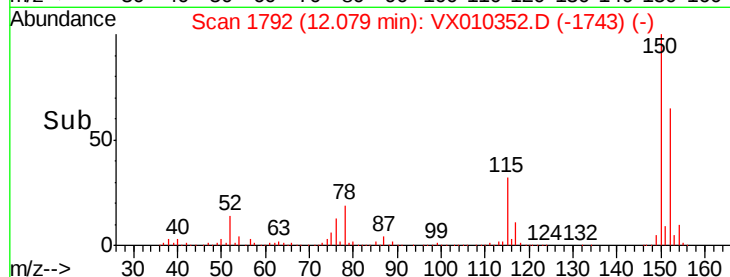
150 154.9 0.0 347.4



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: 26.052 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010352.D

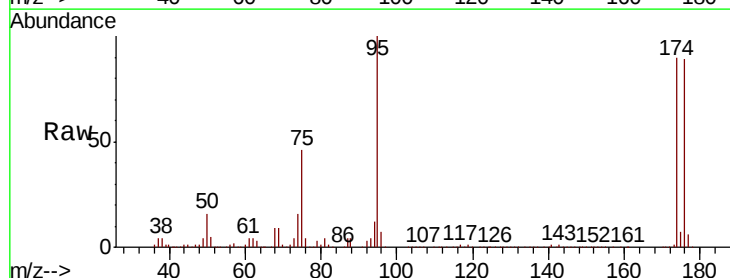
Acq: 20 Jun 2019 11:33

Tgt Ion: 75 Resp: 87852

Ion Ratio Lower Upper

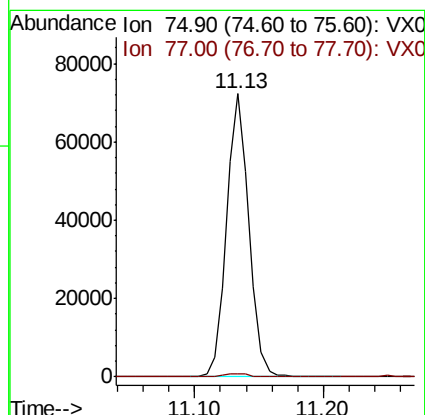
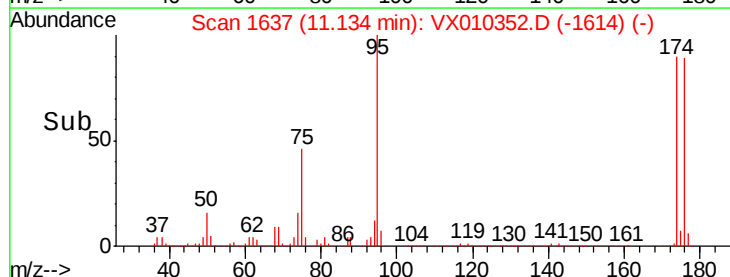
75 100

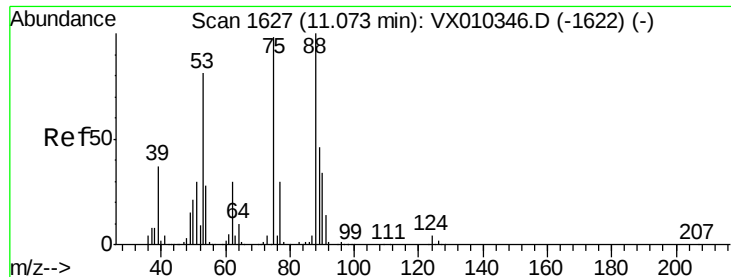
77 1.1 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

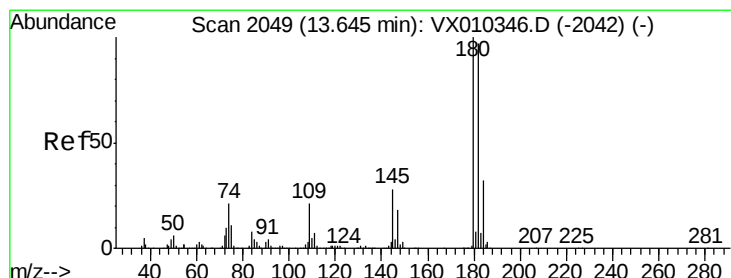
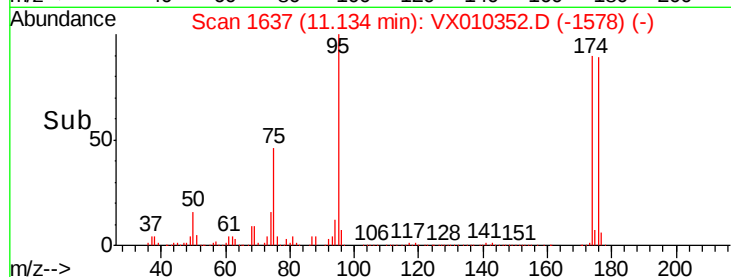
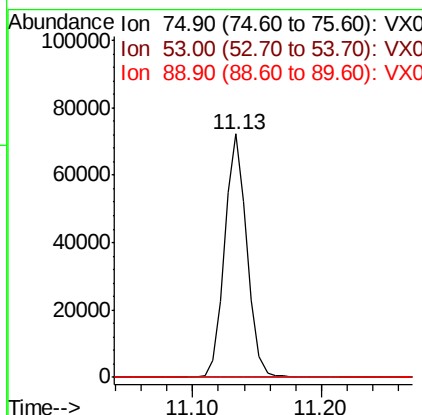
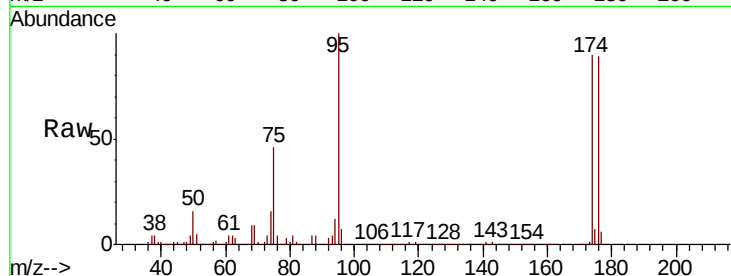




#81
trans-1,4-Dichloro-2-butene
Concen: 60.777 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010352.D
Acq: 20 Jun 2019 11:33

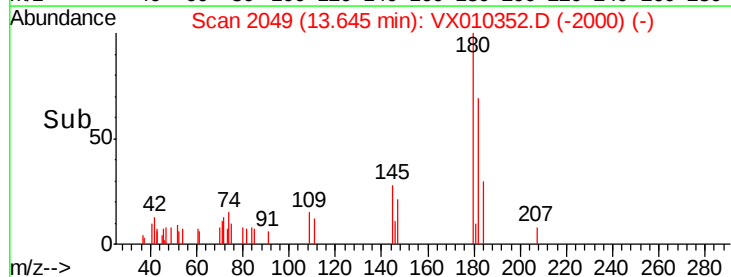
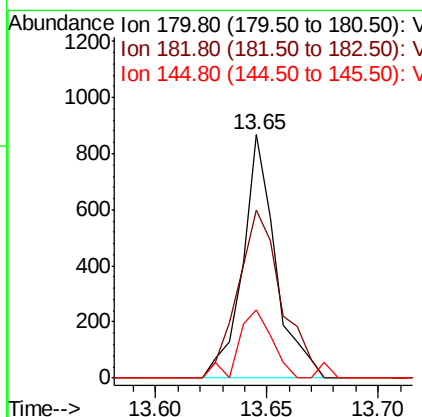
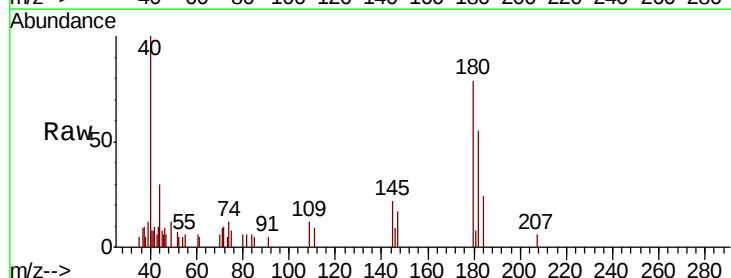
Instrument :
MSVOA_X
ClientSampleId :
VX0620WBL01

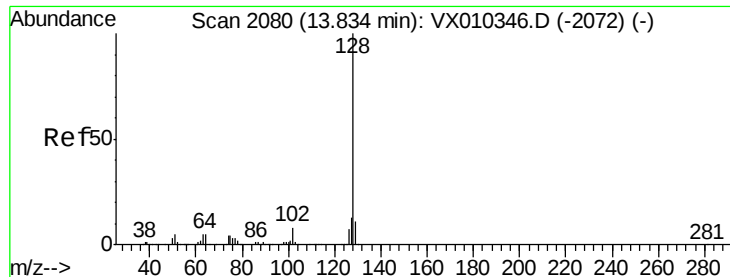
Tot Ion: 75 Resp: 87852
Ion Ratio Lower Upper
75 100
53 0.2 66.1 99.1#
89 0.0 37.8 56.6#



#93
1,2,4-Trichlorobenzene
Concen: 0.211 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX010352.D
Acq: 20 Jun 2019 11:33

Tgt Ion:180 Resp: 891
Ion Ratio Lower Upper
180 100
182 90.8 48.0 144.0
145 28.7 14.4 43.4





#95

Naphthalene

Concen: 0.201 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX010352.D

Acq: 20 Jun 2019 11:33

Instrument :

MSVOA_X

ClientSampleId :

VX0620WBL01

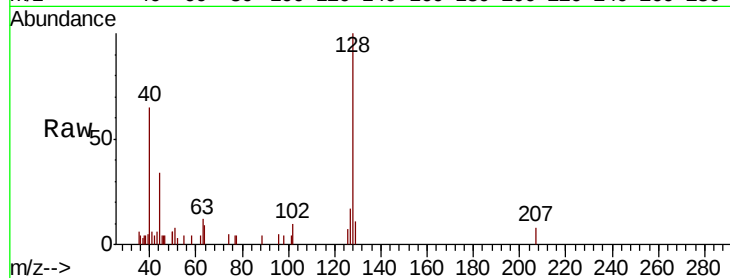
Tot Ion:128 Resp: 2604

Ion Ratio Lower Upper

128 100

127 12.0 10.2 15.4

129 8.7 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

