

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091918\
 Data File : VX004696.D
 Acq On : 19 Sep 2018 10:41
 Operator : JC/MD
 Sample : VX0919WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 19 16:45:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	255103	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	336223	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175199	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	153767	46.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.50%	
35) Dibromofluoromethane	5.49	113	140487	45.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.32%	
50) Toluene-d8	8.71	98	469412	45.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.98%	
62) 4-Bromofluorobenzene	11.14	95	164858	44.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.52%	

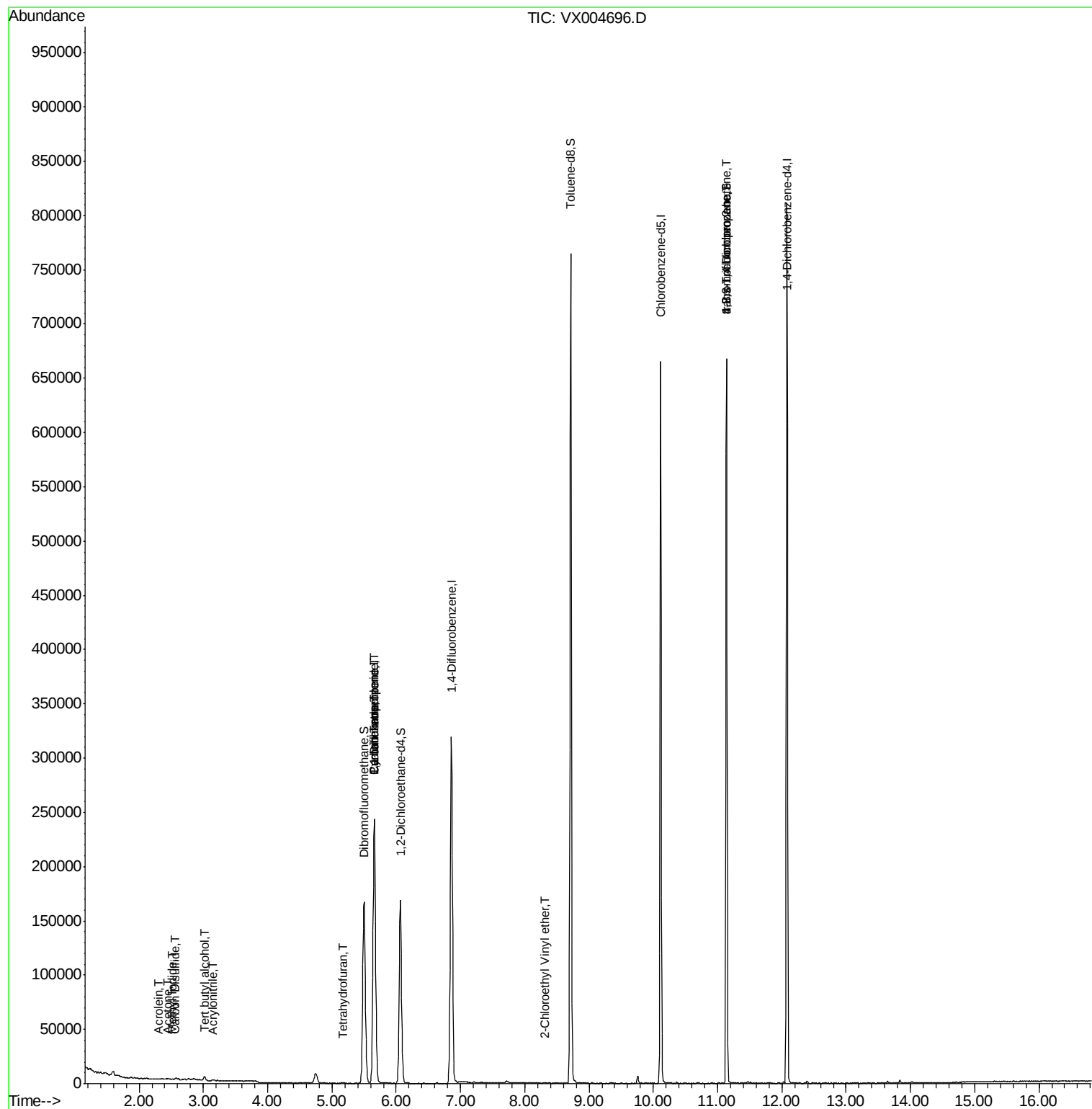
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	660	Below Cal	#	77
10) Methyl Iodide	2.51	142	438	4.374	ug/l #	85
11) Tert butyl alcohol	3.01	59	2610	3.325	ug/l #	72
13) Acrolein	2.29	56	307	0.991	ug/l	88
15) Acrylonitrile	3.14	53	507	0.268	ug/l #	69
16) Acetone	2.44	43	994	0.619	ug/l	99
17) Carbon Disulfide	2.57	76	1643	0.213	ug/l	96
29) Tetrahydrofuran	5.17	42	527	0.342	ug/l #	56
31) Cyclohexane	5.66	56	3925	0.825	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	16081	3.940	ug/l #	49
38) Carbon Tetrachloride	5.66	117	20538	5.151	ug/l #	14
58) 2-Chloroethyl Vinyl ether	8.32	63	87	7.310	ug/l #	45
76) 1,2,3-Trichloropropane	11.14	75	77358	21.947	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	77358	69.954	ug/l #	10

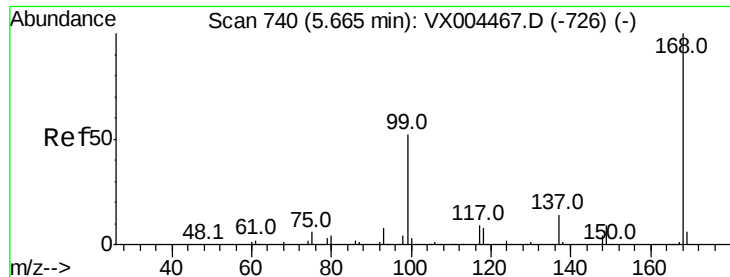
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX004696.D

Acq: 19 Sep 2018 10:41

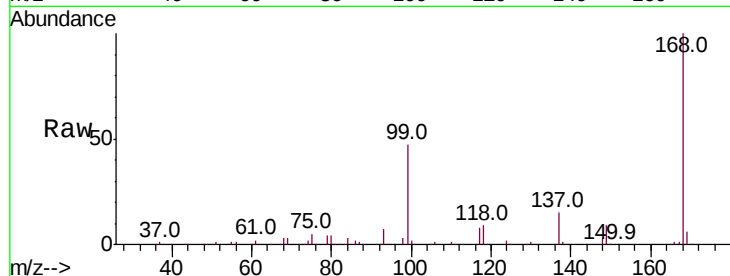
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 255103

Ion Ratio Lower Upper

168 100

99 47.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

100000

80000

60000

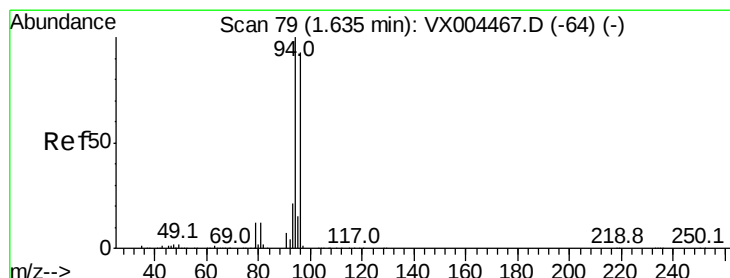
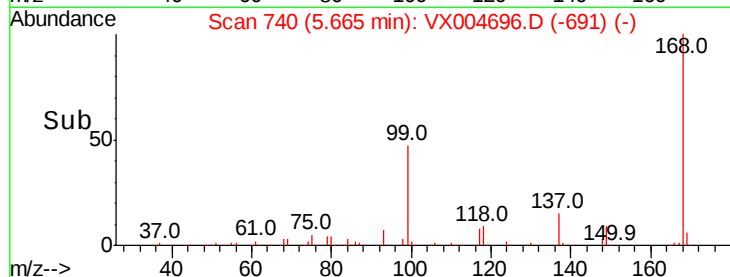
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004696.D

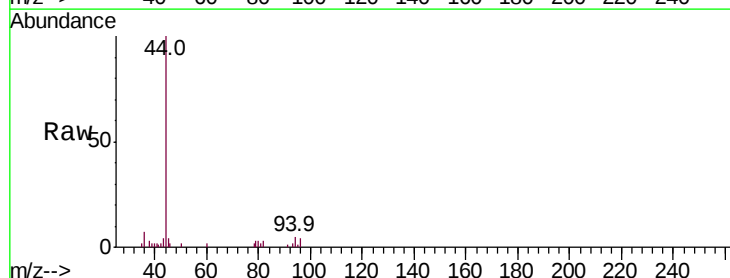
Acq: 19 Sep 2018 10:41

Tgt Ion: 94 Resp: 660

Ion Ratio Lower Upper

94 100

96 71.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

250

200

150

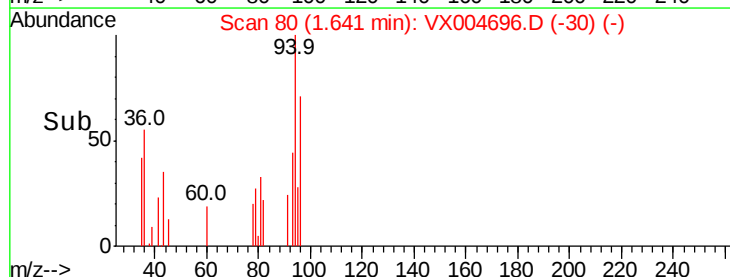
100

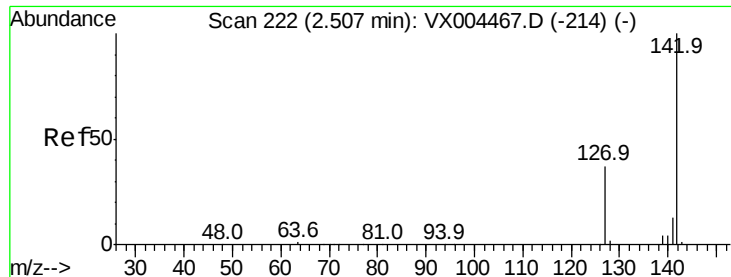
50

0

1.60 1.65 1.70

Time-->

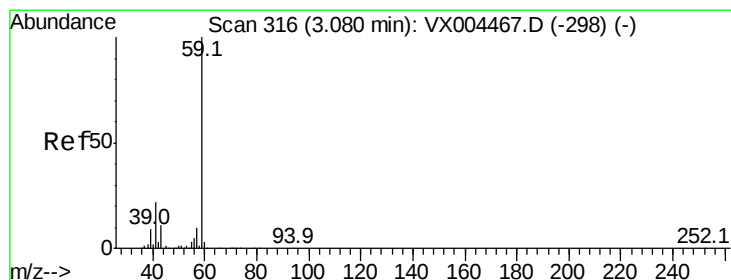
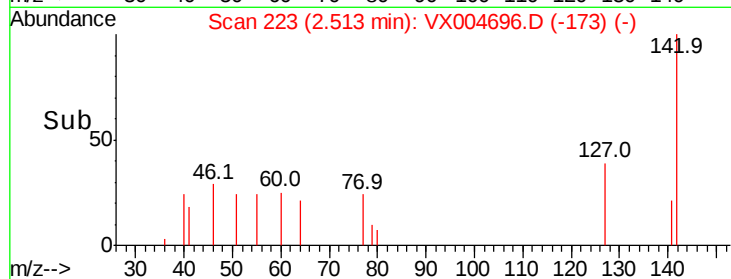
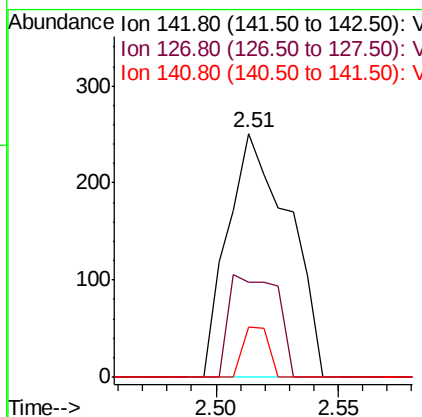
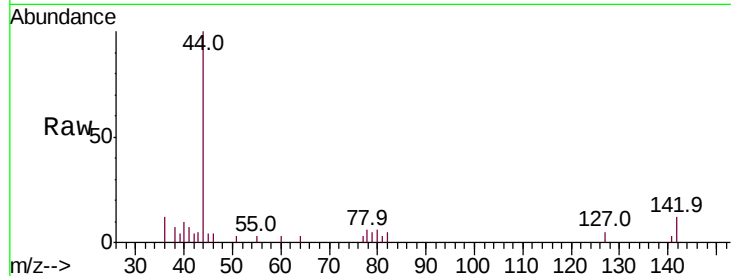




#10
Methvl Iodide
Concen: 4.374 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004696.D
Acq: 19 Sep 2018 10:41

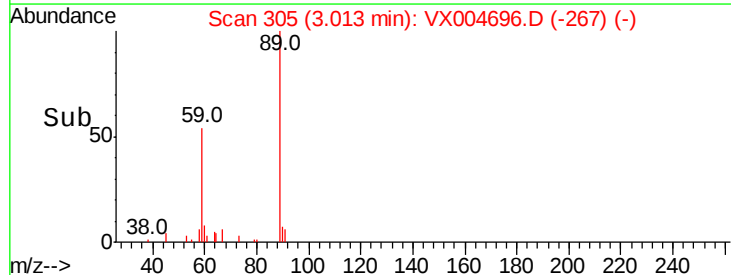
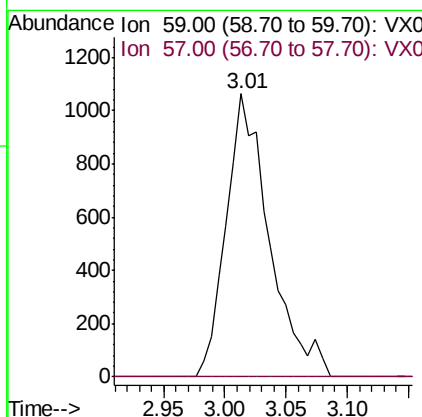
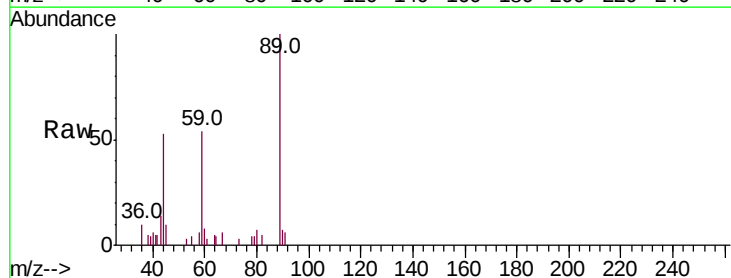
Instrument :
MSVOA_X
ClientSampleId :

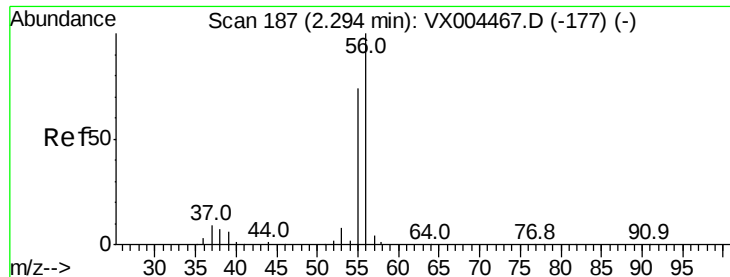
Tot Ion:142 Resp: 438
Ion Ratio Lower Upper
142 100
127 32.9 33.8 50.6#
141 8.4 11.4 17.0#



#11
Tert butyl alcohol
Concen: 3.325 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.07 min
Lab File: VX004696.D
Acq: 19 Sep 2018 10:41

Tgt Ion: 59 Resp: 2610
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 0.991 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

Instrument :

MSVOA_X

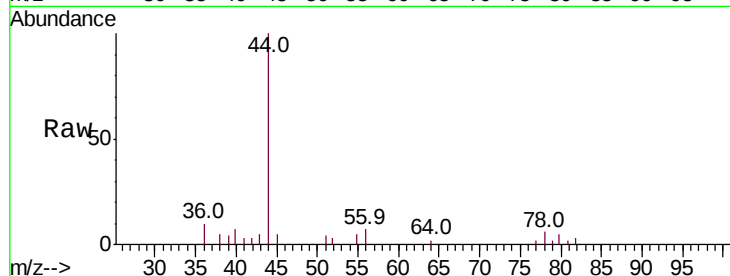
ClientSampleId :

Tot Ion: 56 Resp: 307

Ion Ratio Lower Upper

56 100

55 58.3 54.7 82.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

200

150

100

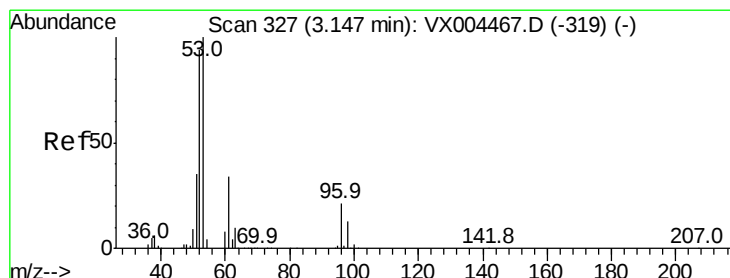
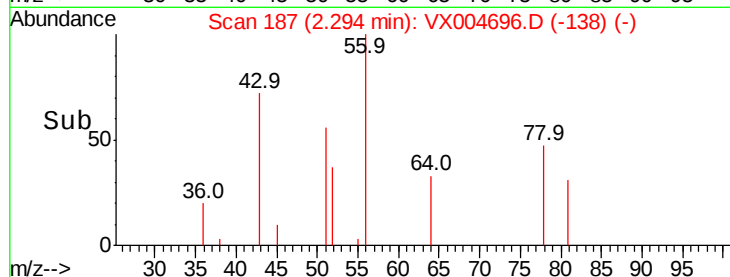
50

0

2.25

2.30

Time-->



#15

Acrylonitrile

Concen: 0.268 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

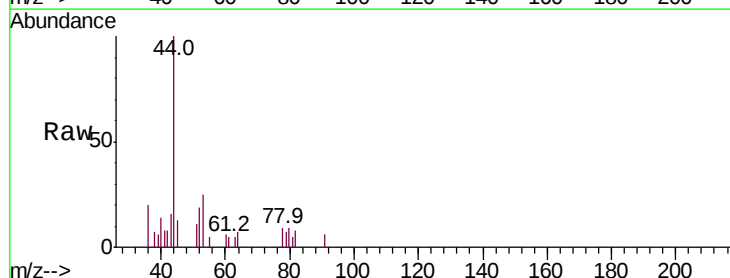
Tgt Ion: 53 Resp: 507

Ion Ratio Lower Upper

53 100

52 97.4 65.2 97.8

51 0.0 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

400

300

200

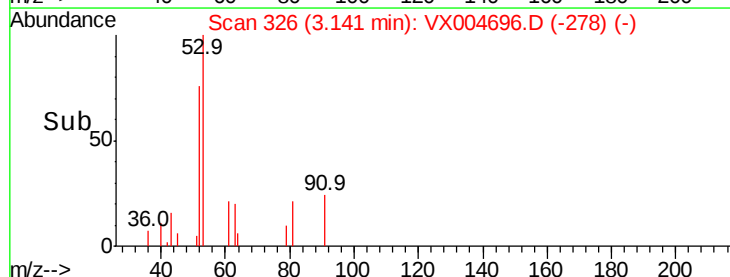
100

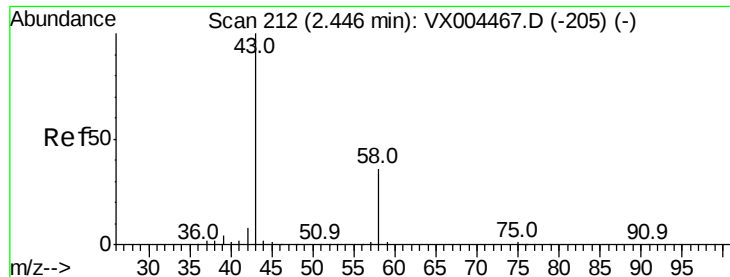
0

3.10

3.15

Time-->





#16

Acetone

Concen: 0.619 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

Instrument :

MSVOA_X

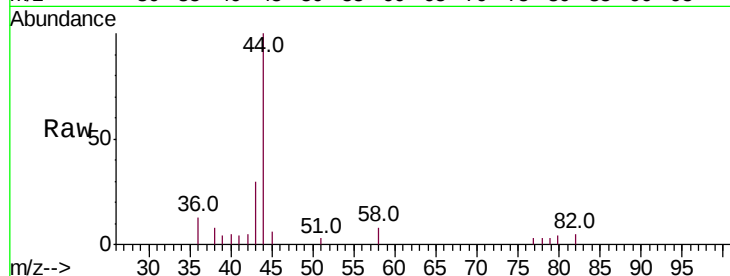
ClientSampleId :

Tot Ion: 43 Resp: 994

Ion Ratio Lower Upper

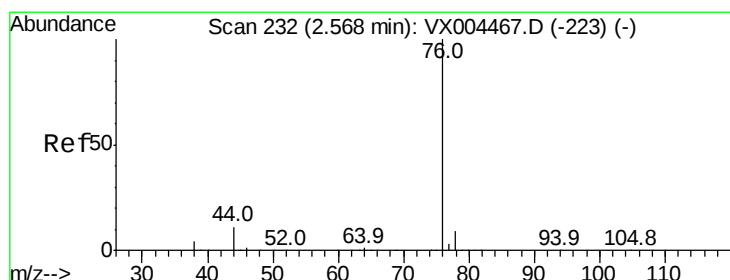
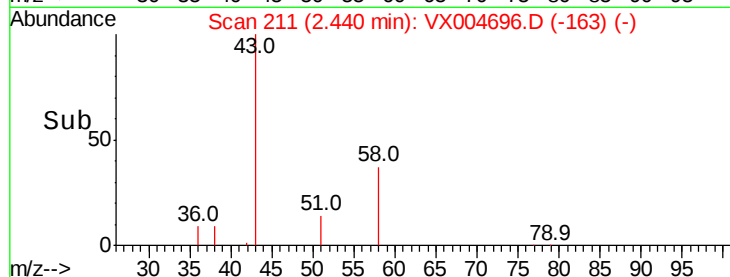
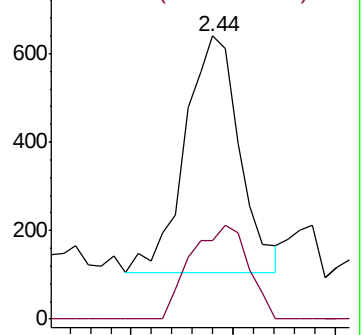
43 100

58 33.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.213 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004696.D

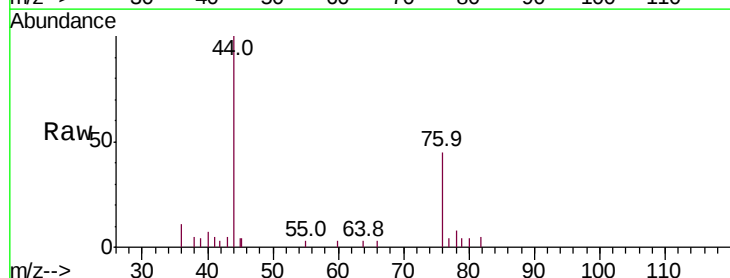
Acq: 19 Sep 2018 10:41

Tgt Ion: 76 Resp: 1643

Ion Ratio Lower Upper

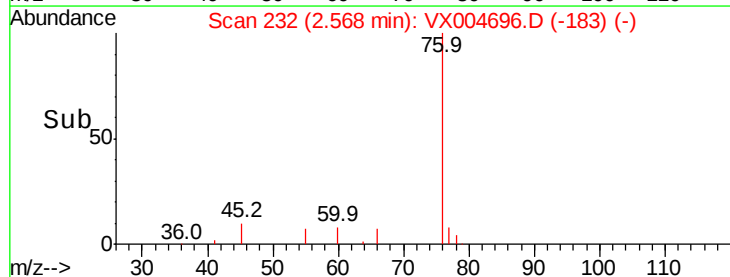
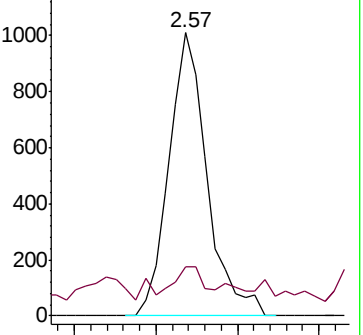
76 100

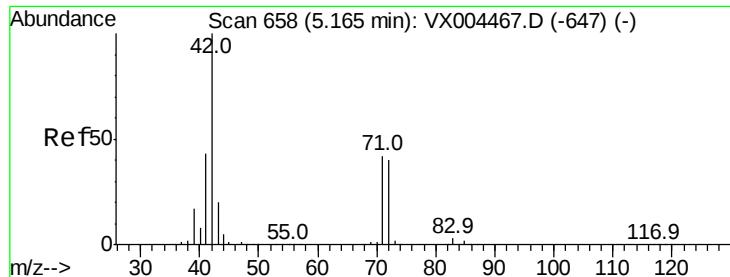
78 10.3 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#29

Tetrahydrofuran

Concen: 0.342 ug/l

RT: 5.17 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

Instrument :

MSVOA_X

ClientSampled :

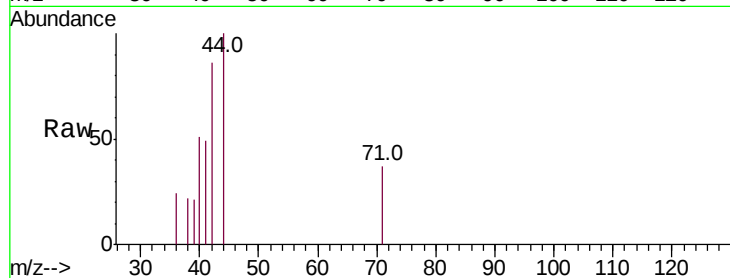
Tot Ion: 42 Resp: 527

Ion Ratio Lower Upper

42 100

72 7.8 37.4 56.0#

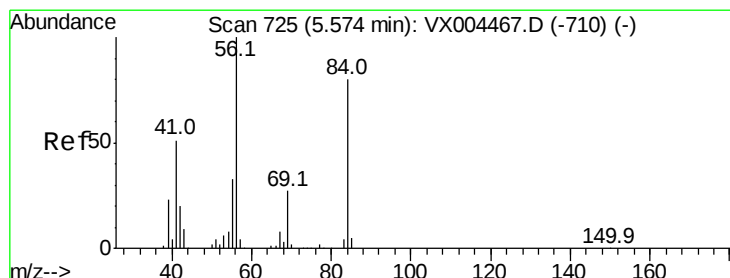
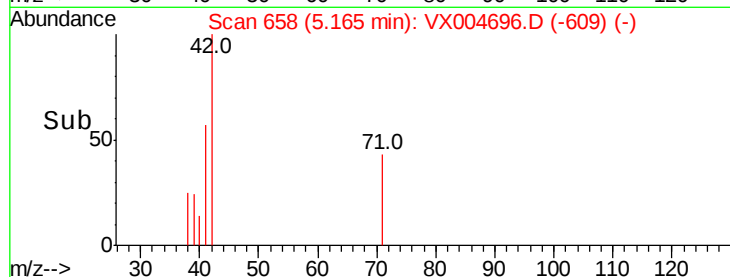
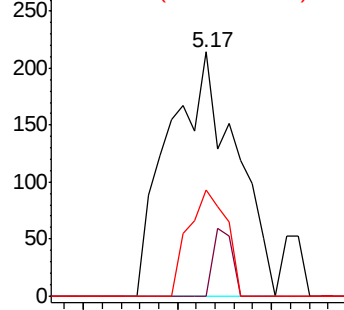
71 24.9 34.5 51.7#



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: 0.825 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

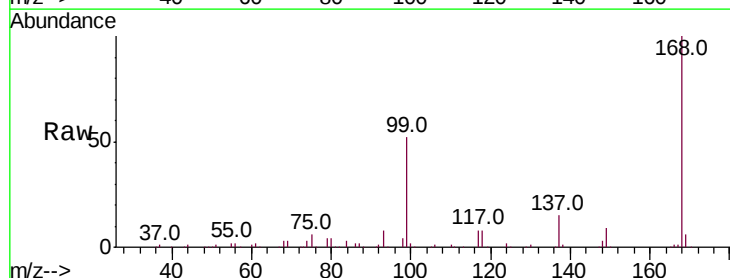
Tgt Ion: 56 Resp: 3925

Ion Ratio Lower Upper

56 100

69 169.6 25.4 38.2#

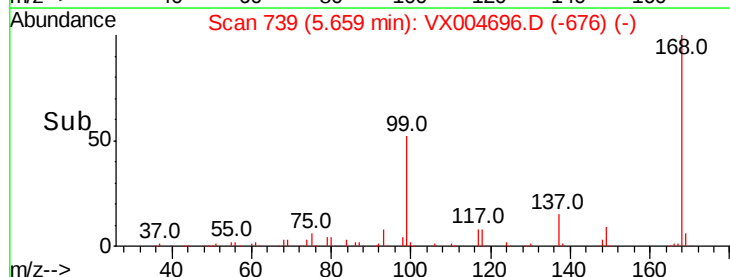
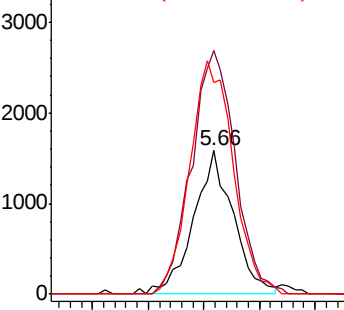
84 147.8 71.4 107.2#

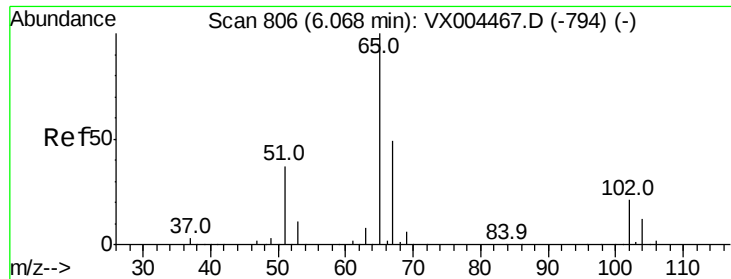


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

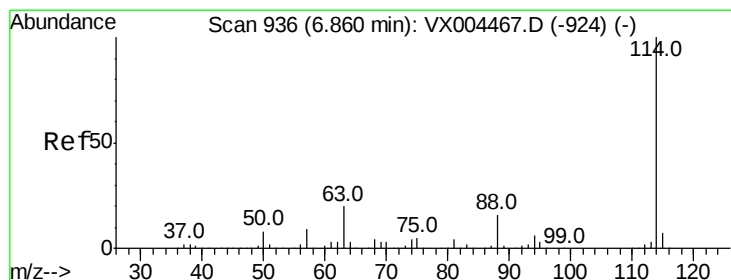
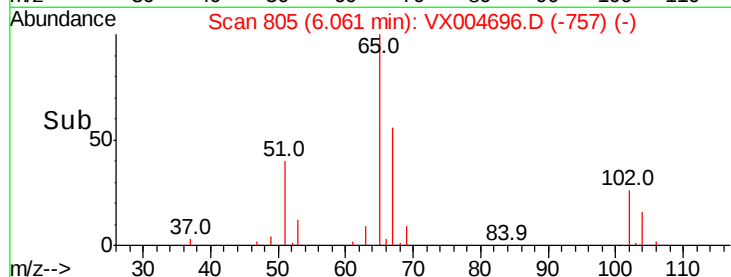
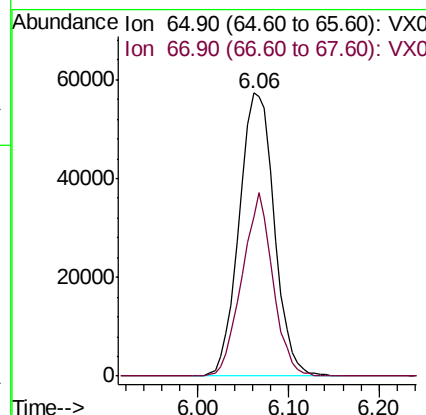
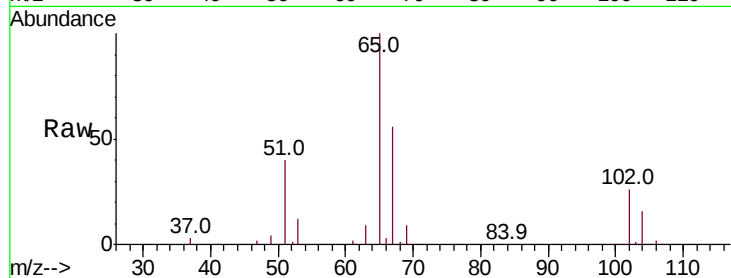




#33
 1,2-Dichloroethane-d4
 Concen: 46.748 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX004696.D
 Acq: 19 Sep 2018 10:41

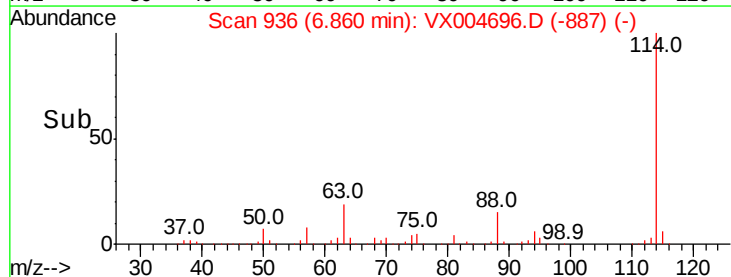
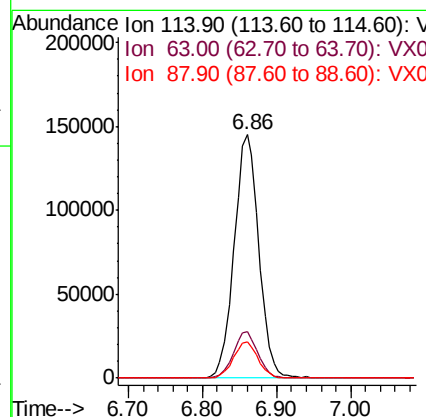
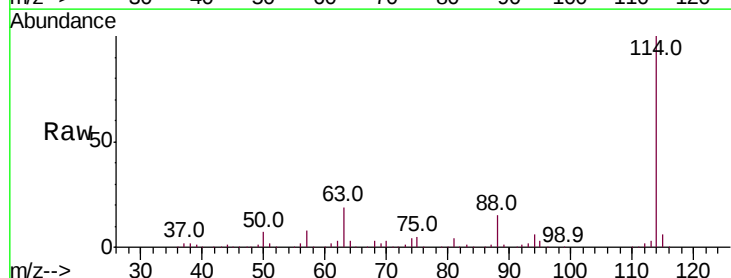
Instrument :
 MSVOA_X
 ClientSampleId :

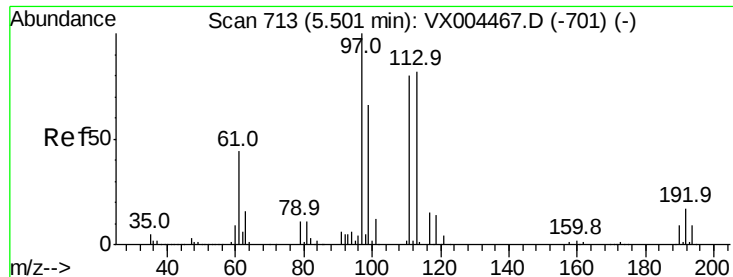
Tot Ion: 65 Resp: 153767
 Ion Ratio Lower Upper
 65 100
 67 57.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004696.D
 Acq: 19 Sep 2018 10:41

Tgt Ion:114 Resp: 336223
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.0
 88 14.9 0.0 30.4





#35

Dibromofluoromethane

Concen: 45.661 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

Instrument :
MSVOA_X
ClientSampleId :

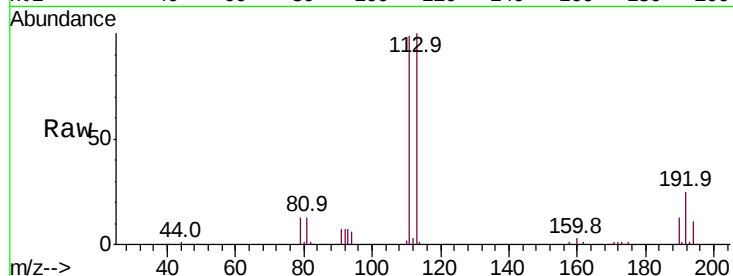
Tot Ion:113 Resp: 140487

Ion Ratio Lower Upper

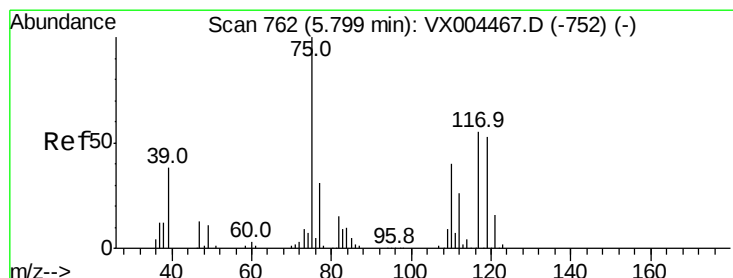
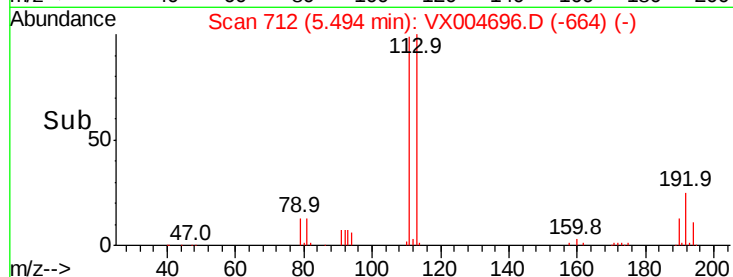
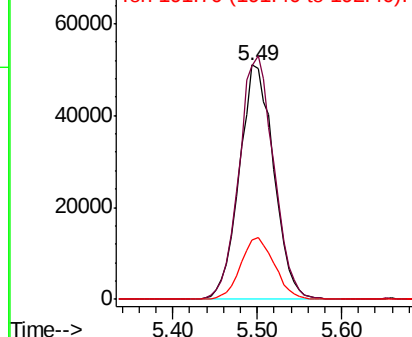
113 100

111 104.6 82.4 123.6

192 25.9 19.4 29.2



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: 3.940 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

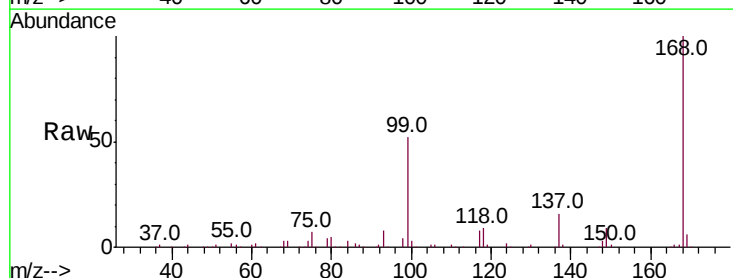
Tgt Ion: 75 Resp: 16081

Ion Ratio Lower Upper

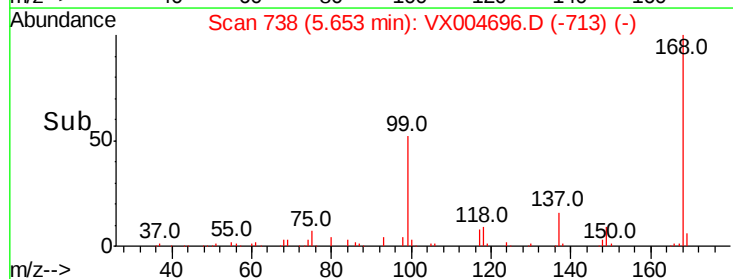
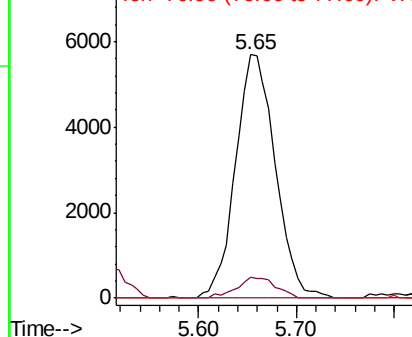
75 100

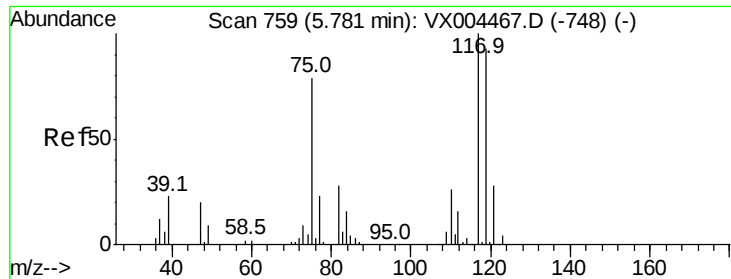
110 8.3 18.0 54.0#

77 0.0 24.6 36.8#



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: 5.151 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

Instrument :

MSVOA_X

ClientSampled :

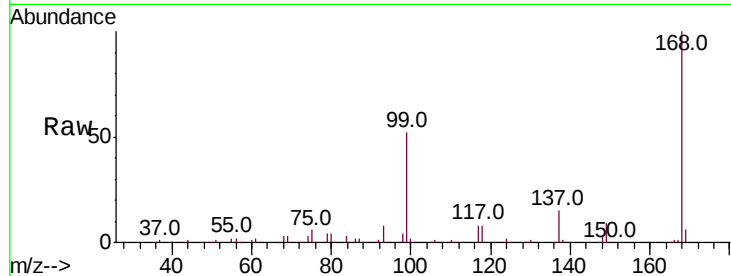
Tot Ion:117 Resp: 20538

Ion Ratio Lower Upper

117 100

119 4.2 78.8 118.2#

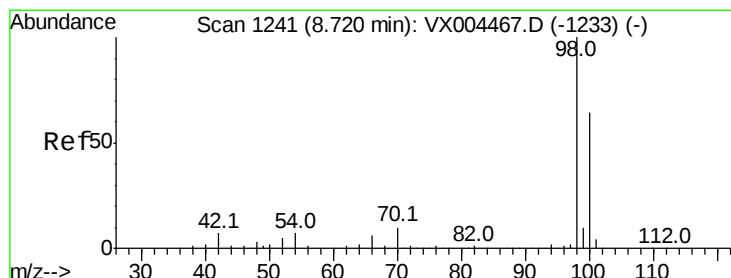
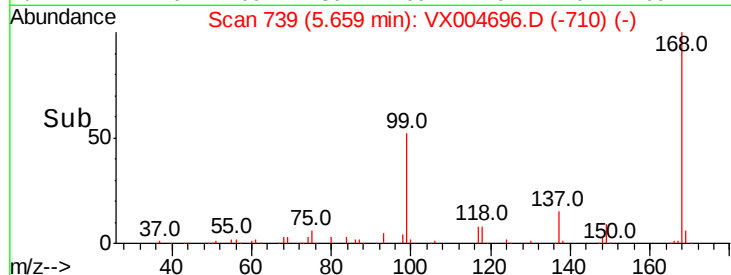
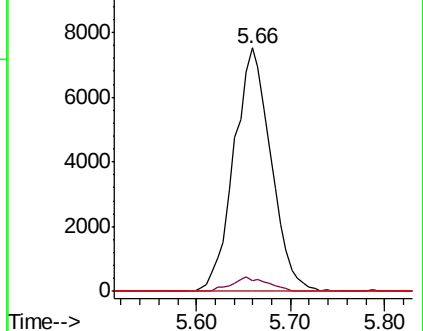
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 45.495 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004696.D

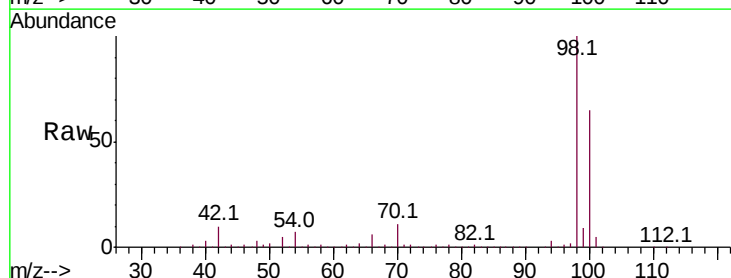
Acq: 19 Sep 2018 10:41

Tgt Ion: 98 Resp: 469412

Ion Ratio Lower Upper

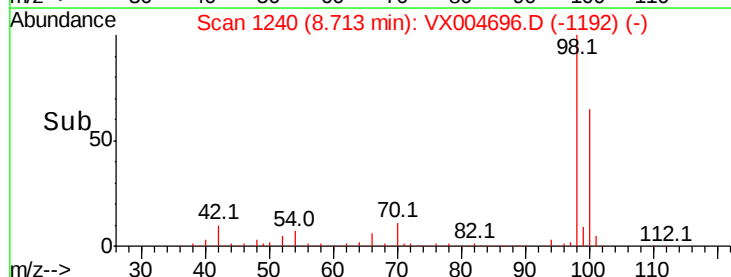
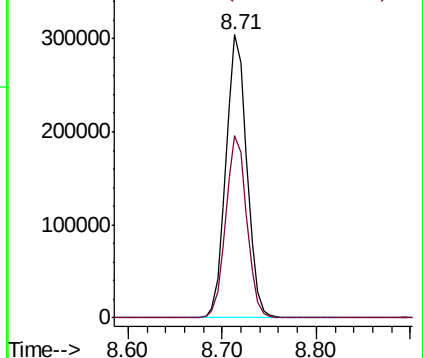
98 100

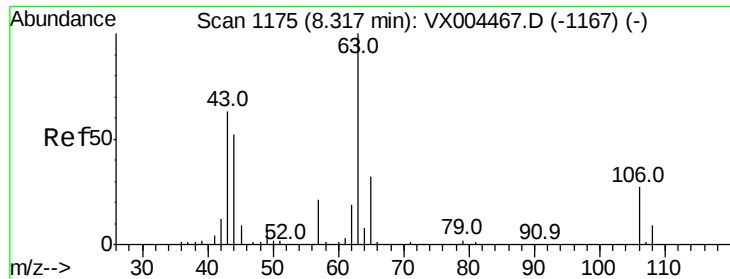
100 64.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

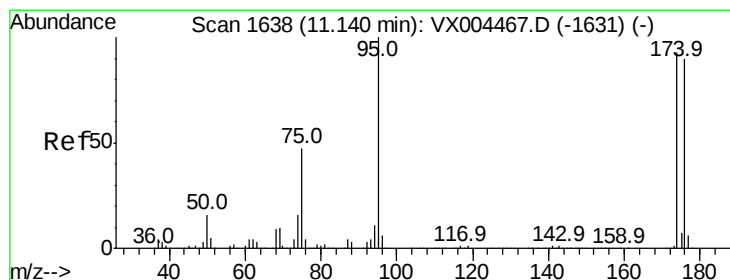
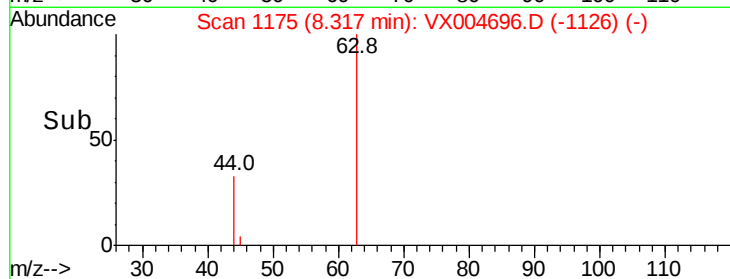
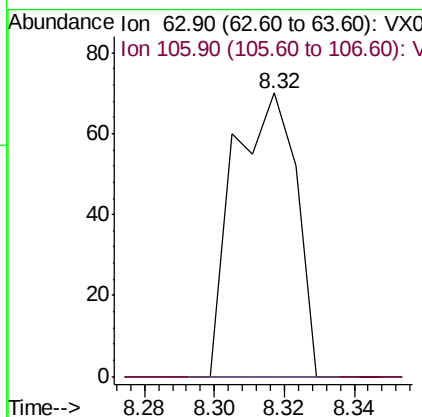
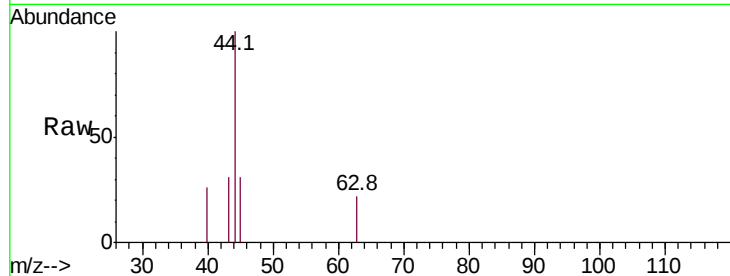




#58
 2-Chloroethyl Vinyl ether
 Concen: 7.310 ug/l
 RT: 8.32 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VX004696.D
 Acq: 19 Sep 2018 10:41

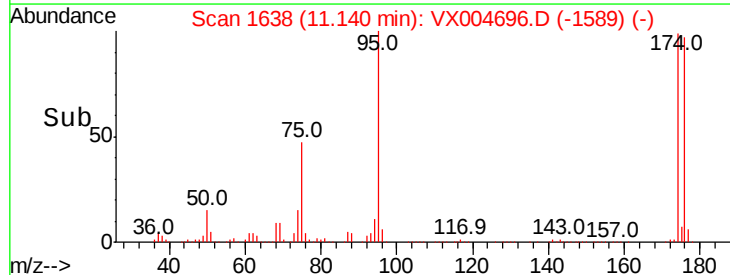
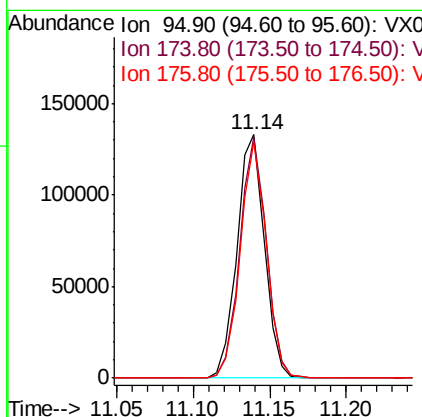
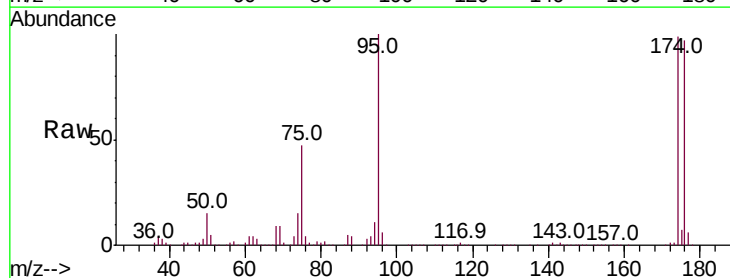
Instrument :
 MSVOA_X
 ClientSampleId :

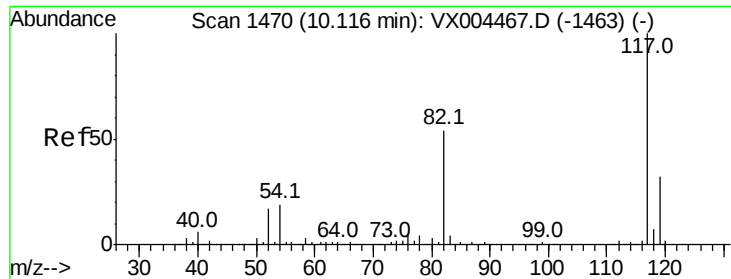
Tot Ion: 63 Resp: 87
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.9 35.9#



#62
 4-Bromofluorobenzene
 Concen: 44.761 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004696.D
 Acq: 19 Sep 2018 10:41

Tgt Ion: 95 Resp: 164858
 Ion Ratio Lower Upper
 95 100
 174 96.3 0.0 185.2
 176 93.0 0.0 178.6

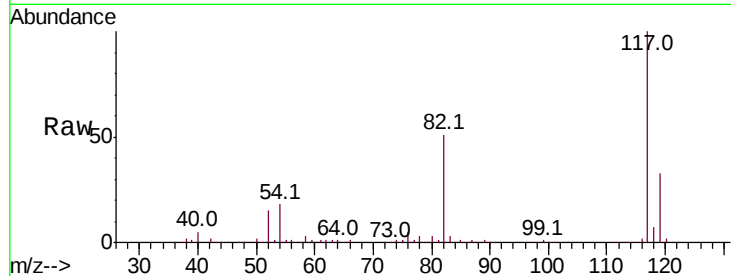




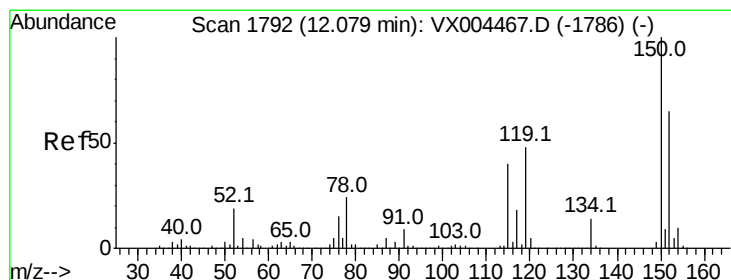
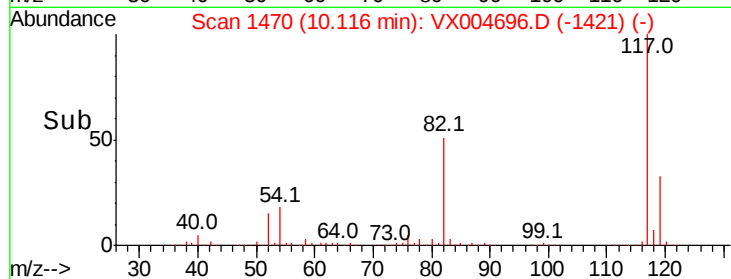
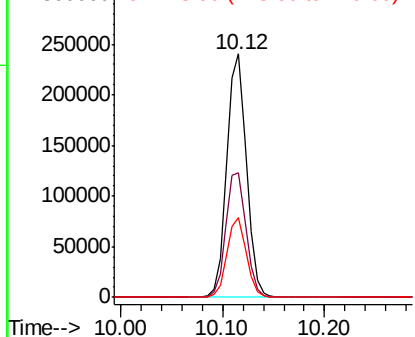
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004696.D
Acq: 19 Sep 2018 10:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 317910
Ion Ratio Lower Upper
117 100
82 51.2 47.8 71.6
119 32.6 29.3 43.9

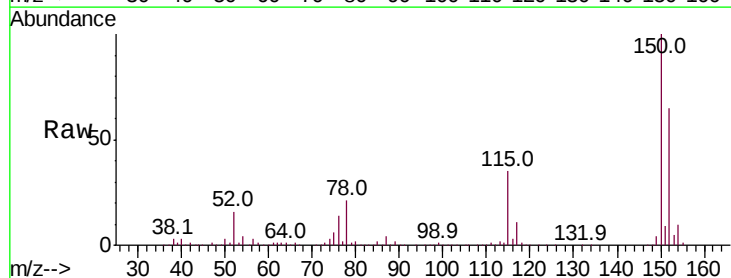


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

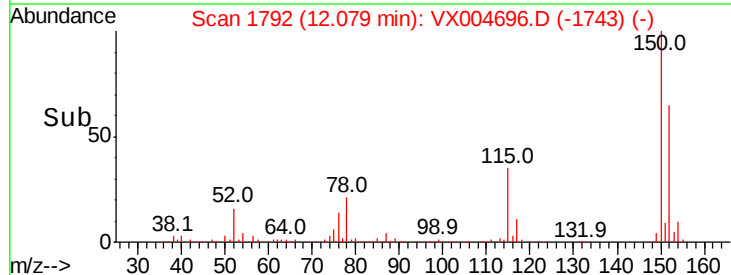
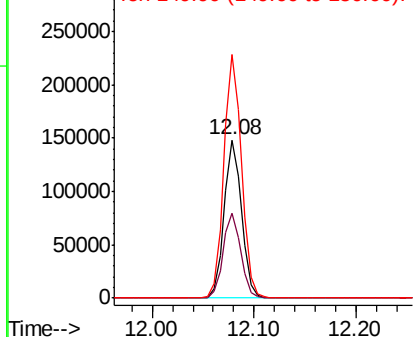


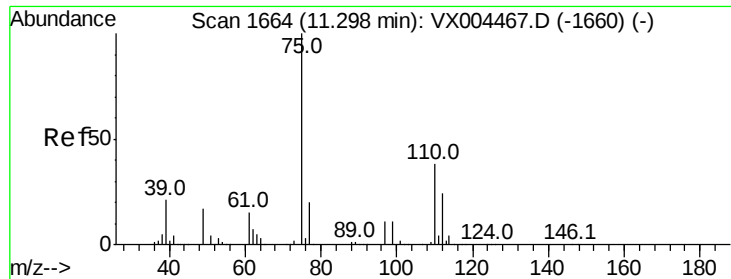
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004696.D
Acq: 19 Sep 2018 10:41

Tgt Ion:152 Resp: 175199
Ion Ratio Lower Upper
152 100
115 54.6 39.0 117.0
150 156.2 0.0 351.0



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: 21.947 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

Instrument :

MSVOA_X

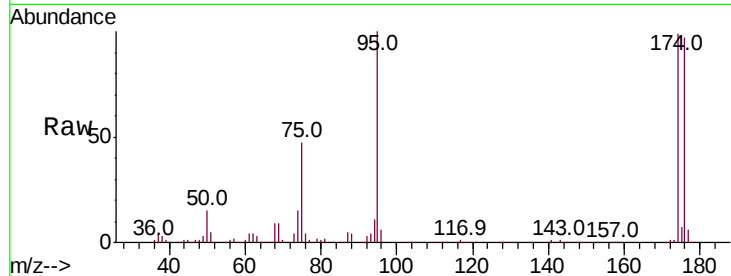
ClientSampleId :

Tot Ion: 75 Resp: 77358

Ion Ratio Lower Upper

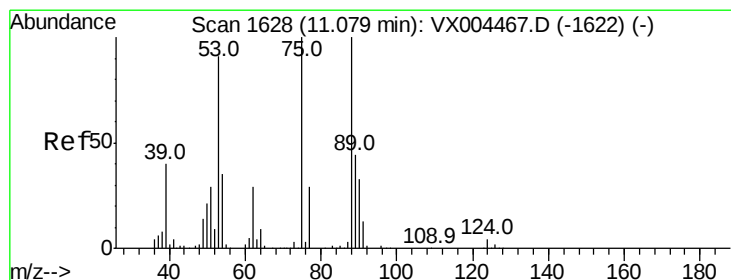
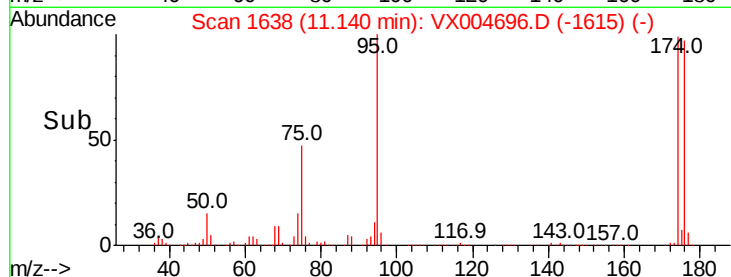
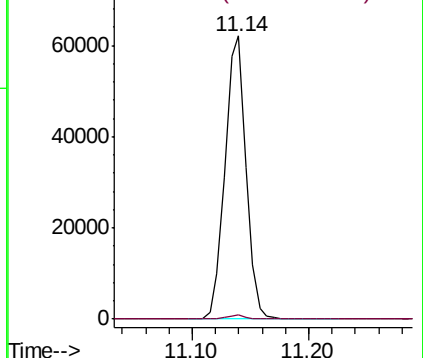
75 100

77 1.3 20.2 60.6#



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: 69.954 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004696.D

Acq: 19 Sep 2018 10:41

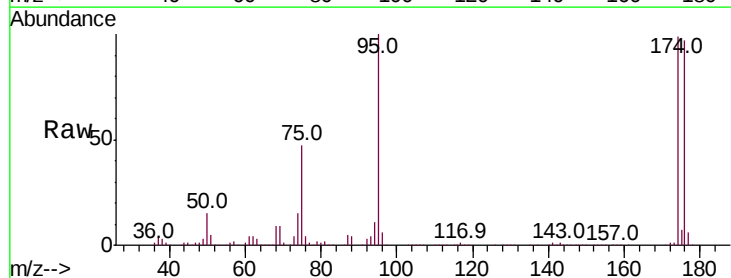
Tgt Ion: 75 Resp: 77358

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

