

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
 Data File : VX004534.D
 Acq On : 14 Sep 2018 12:40
 Operator : JC/MD
 Sample : J4892-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-04-091218

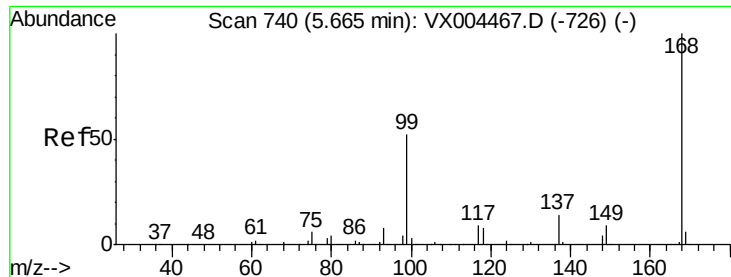
Quant Time: Sep 15 04:38:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	240802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	333850	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317002	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174735	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	161729	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	5.50	113	150337	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	8.72	98	473815	46.25	ug/l	0.00
Spiked Amount			Recovery	=	92.50%	
62) 4-Bromofluorobenzene	11.14	95	164937	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	749	0.24	ug/l	98
5) Bromomethane	1.65	94	893	Below Cal		99
10) Methyl Iodide	2.51	142	1125	4.58	ug/l	95
11) Tert butyl alcohol	3.07	59	363	0.49	ug/l	95
13) Acrolein	2.31	56	253	0.87	ug/l	86
14) Allyl chloride	2.62	41	4725	0.91	ug/l #	63
15) Acrylonitrile	3.15	53	540	0.30	ug/l #	90
16) Acetone	2.44	43	2710	1.79	ug/l	97
17) Carbon Disulfide	2.57	76	1774	0.24	ug/l	97
20) Methylene Chloride	2.85	84	1088	0.35	ug/l #	90
30) Chloroform	5.21	83	1948	0.38	ug/l	84
31) Cyclohexane	5.67	56	4325	0.96	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15889	3.92	ug/l #	49
38) Carbon Tetrachloride	5.66	117	20694	5.23	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	78074	22.21	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	78074	70.79	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

Instrument :

MSVOA_X

ClientSampleId :

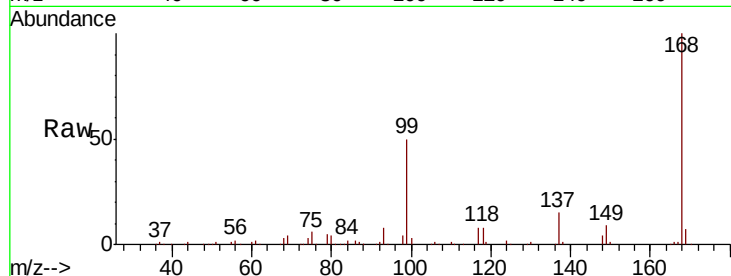
PR-MW-04-091218

Tot Ion:168 Resp: 240802

Ion Ratio Lower Upper

168 100

99 50.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

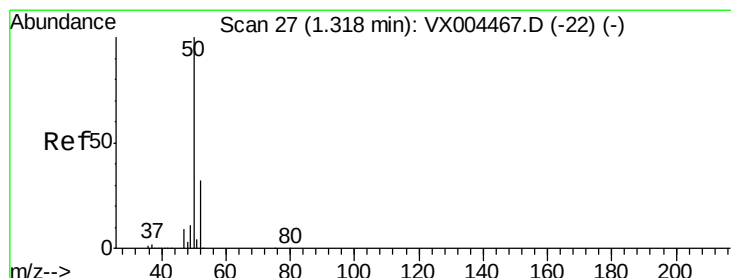
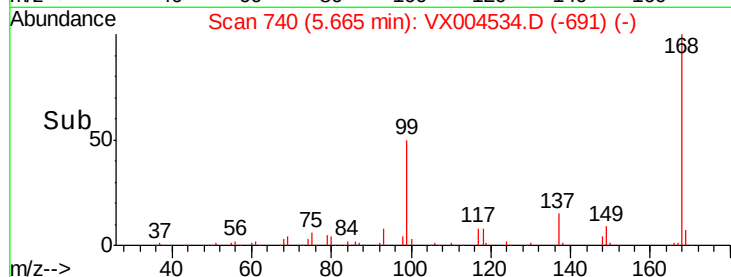
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX004534.D

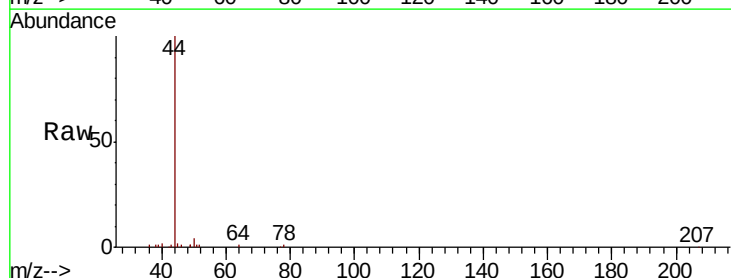
Acq: 14 Sep 2018 12:40

Tgt Ion: 50 Resp: 749

Ion Ratio Lower Upper

50 100

52 31.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

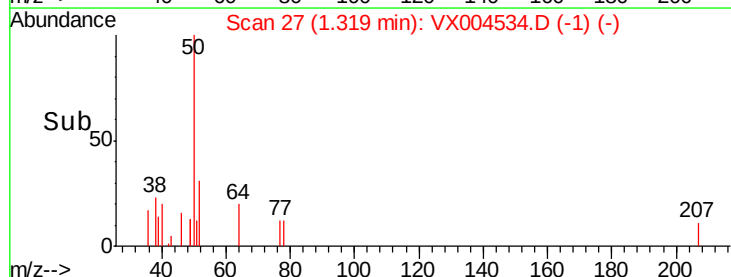
300

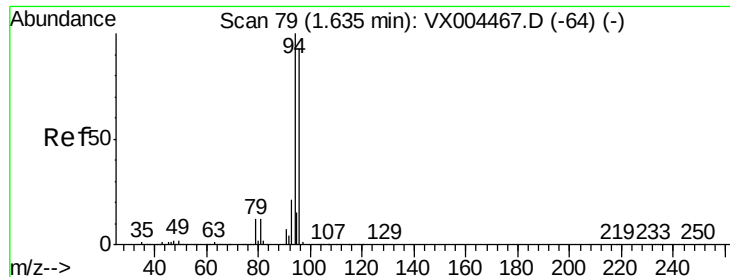
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

Instrument :

MSVOA_X

ClientSampleId :

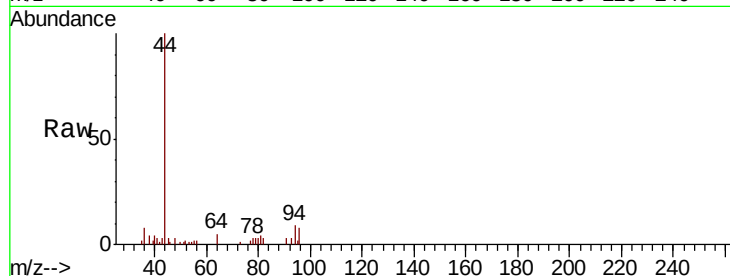
PR-MW-04-091218

Tot Ion: 94 Resp: 893

Ion Ratio Lower Upper

94 100

96 91.8 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

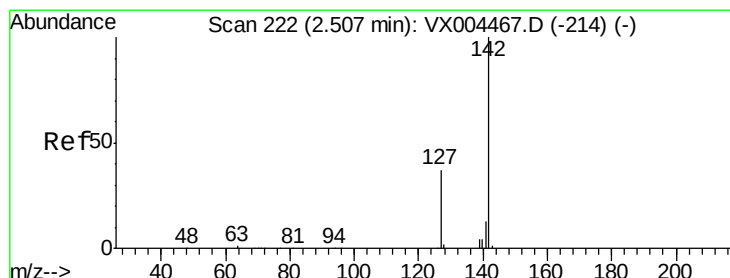
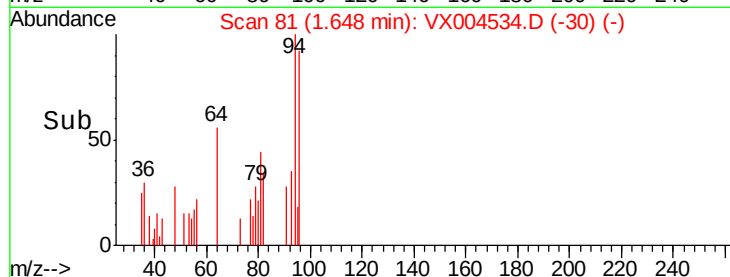
200

100

0

1.60 1.65 1.70

Time-->



#10

Methyl Iodide

Concen: 4.58 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

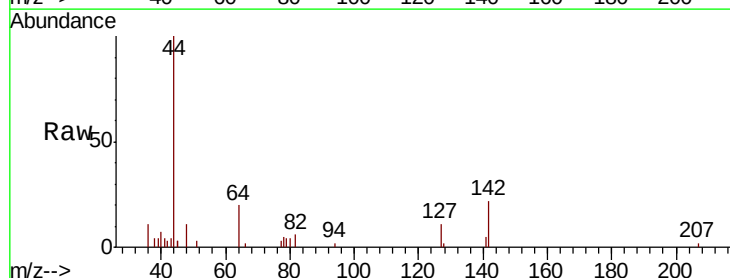
Tgt Ion: 142 Resp: 1125

Ion Ratio Lower Upper

142 100

127 44.9 33.8 50.6

141 16.4 11.4 17.0



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

600

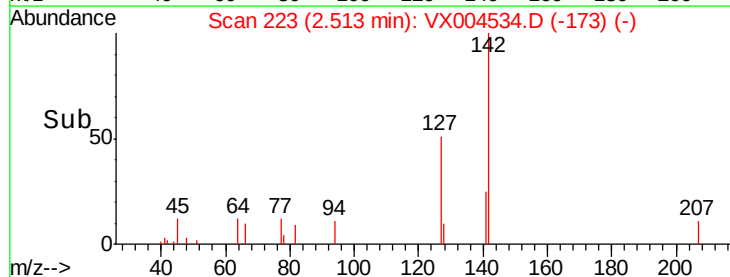
400

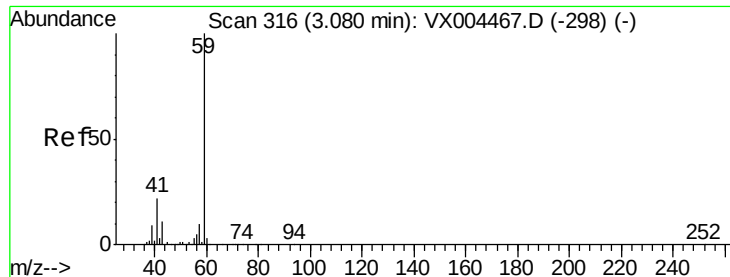
200

0

2.45 2.50 2.55 2.60

Time-->

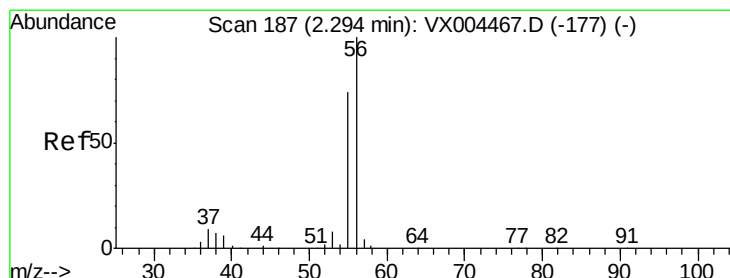
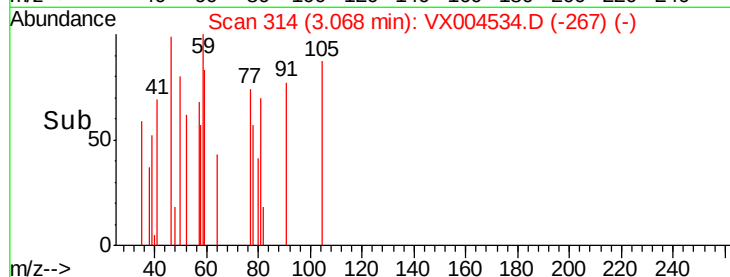
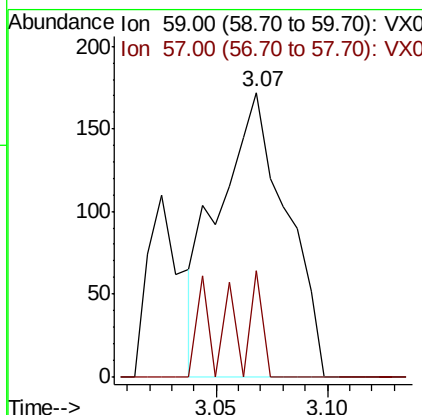
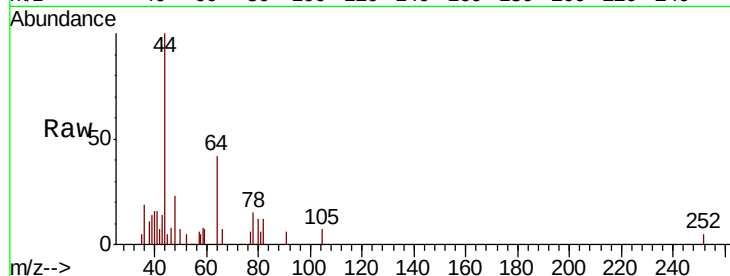




#11
Tert butyl alcohol
Concen: 0.49 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

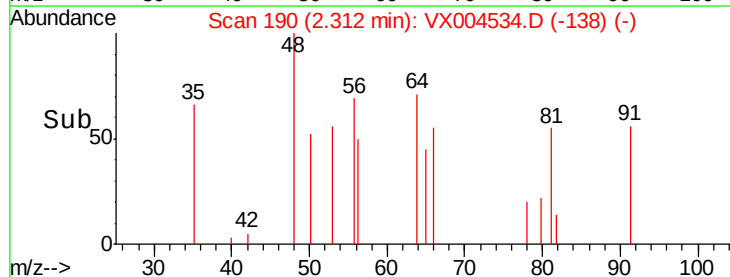
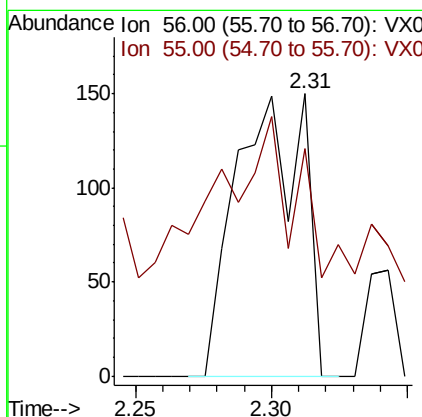
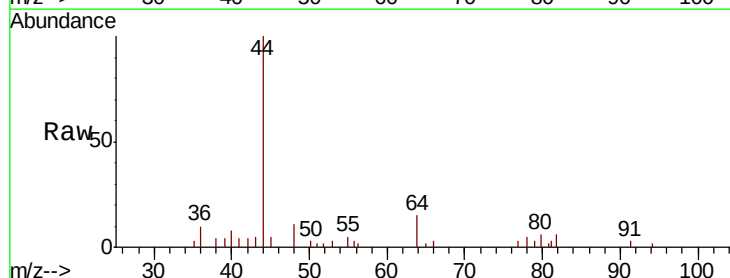
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-091218

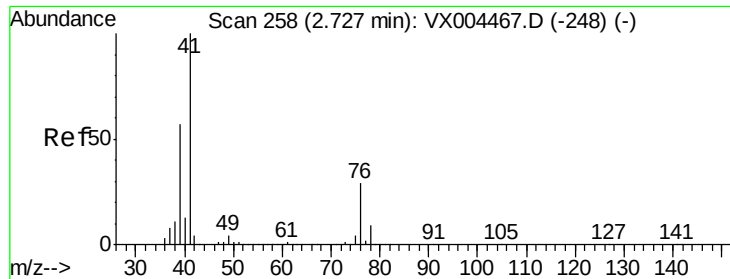
Tot Ion: 59 Resp: 363
Ion Ratio Lower Upper
59 100
57 12.1 8.2 12.4



#13
Acrolein
Concen: 0.87 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.02 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

Tgt Ion: 56 Resp: 253
Ion Ratio Lower Upper
56 100
55 79.8 54.7 82.1

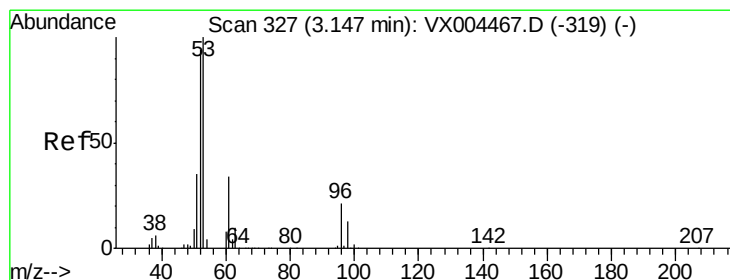
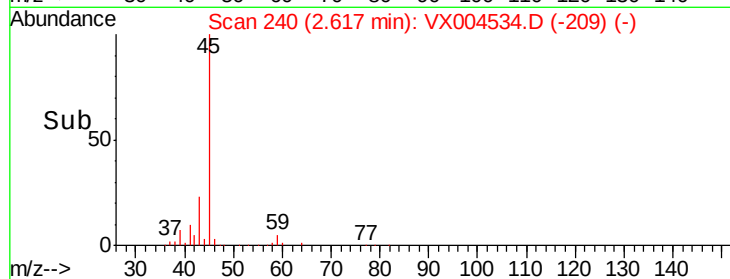
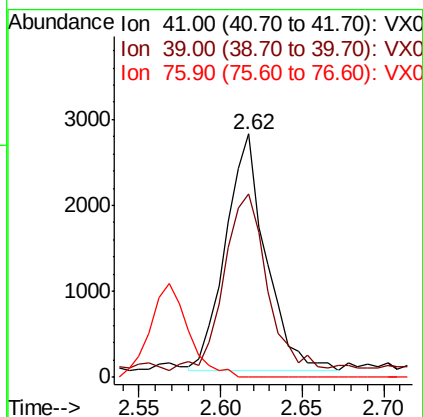
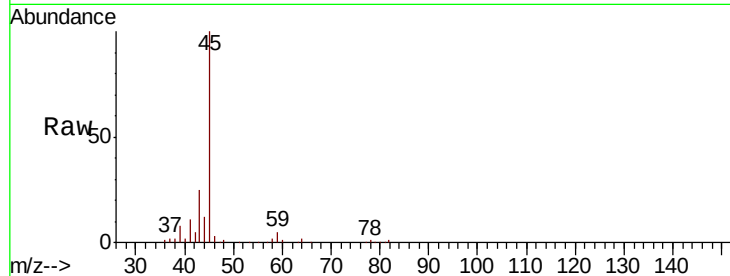




#14
Allvl chloride
Concen: 0.91 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.11 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

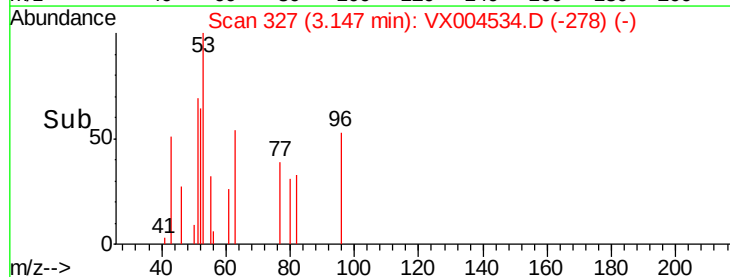
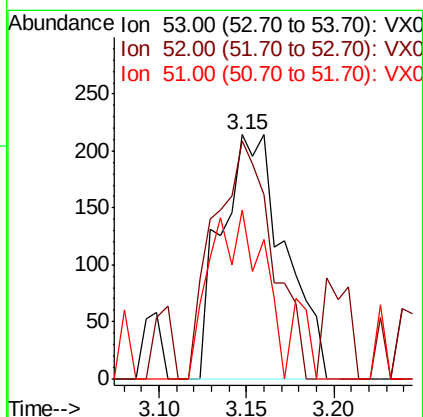
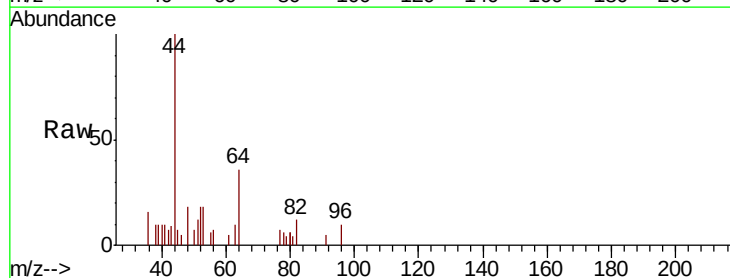
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-091218

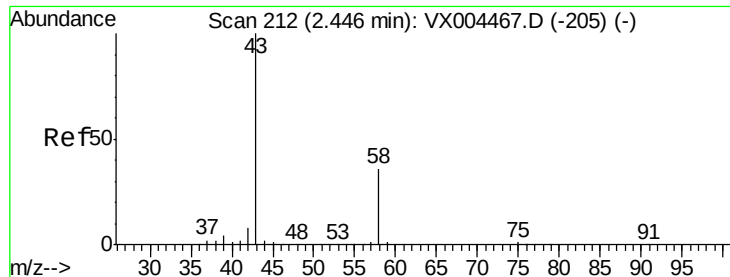
Tot Ion	Ratio	Lower	Upper
41	100		
39	80.2	48.9	73.3#
76	0.0	26.7	40.1#



#15
Acrylonitrile
Concen: 0.30 ug/l
RT: 3.15 min Scan# 327
Delta R.T. 0.00 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

Tgt Ion	Ratio	Lower	Upper
53	100		
52	90.0	65.2	97.8
51	28.0	28.2	42.2#





#16

Acetone

Concen: 1.79 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

Instrument :

MSVOA_X

ClientSampleId :

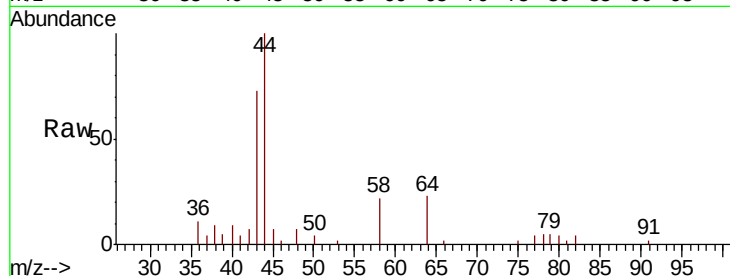
PR-MW-04-091218

Tot Ion: 43 Resp: 2710

Ion Ratio Lower Upper

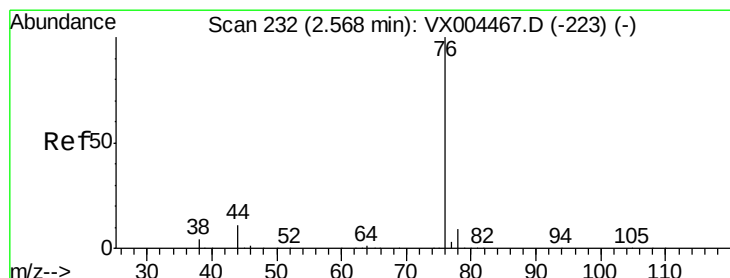
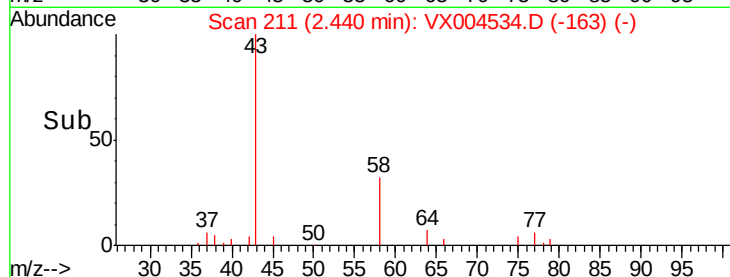
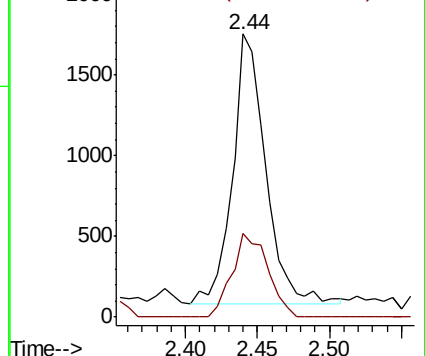
43 100

58 31.2 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: 0.24 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004534.D

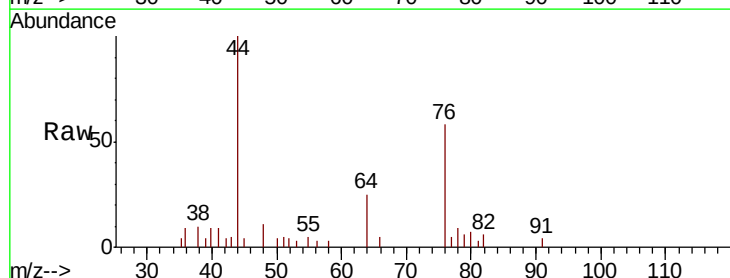
Acq: 14 Sep 2018 12:40

Tgt Ion: 76 Resp: 1774

Ion Ratio Lower Upper

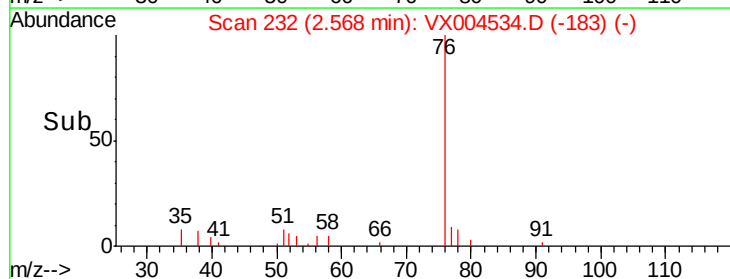
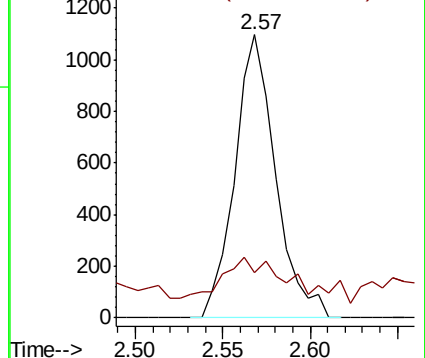
76 100

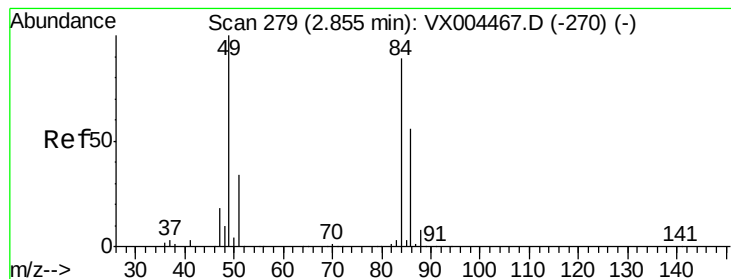
78 7.7 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.35 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-04-091218

Tot Ion: 84 Resp: 1088

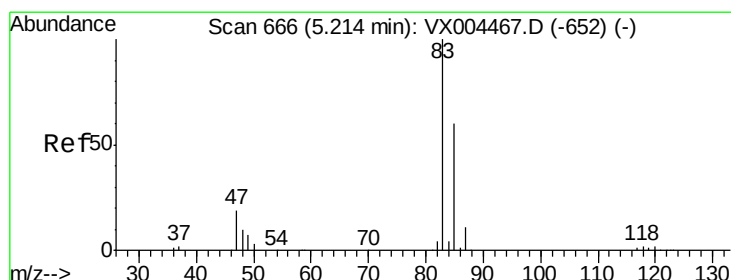
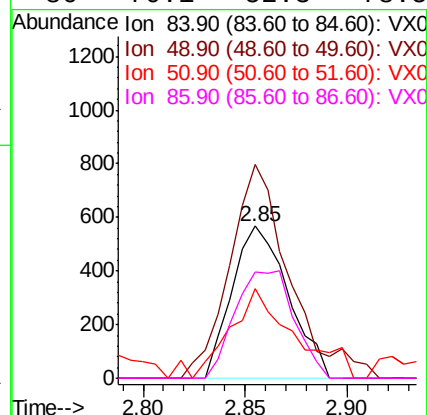
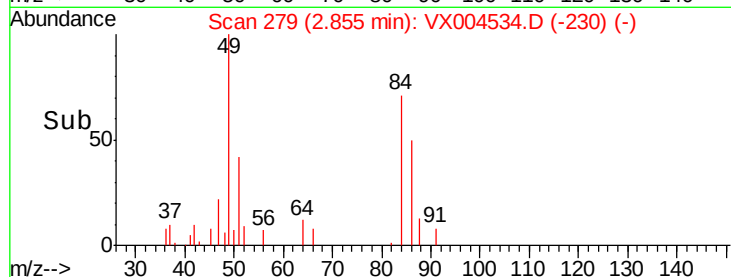
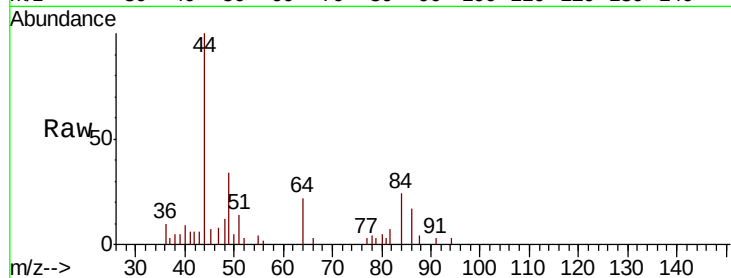
Ion Ratio Lower Upper

84 100

49 130.9 101.2 151.8

51 59.4 29.5 44.3#

86 70.1 52.3 78.5



#30

Chloroform

Concen: 0.38 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX004534.D

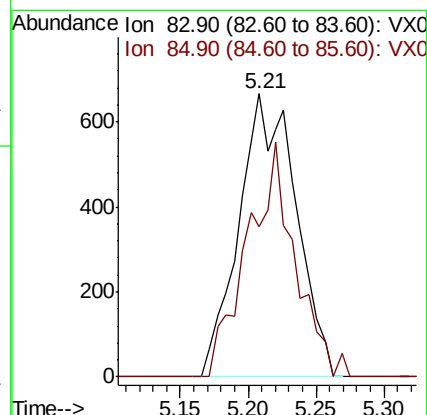
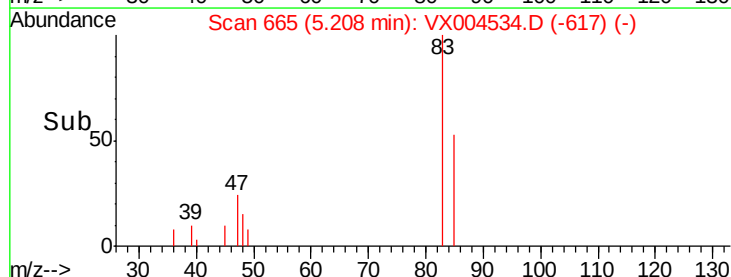
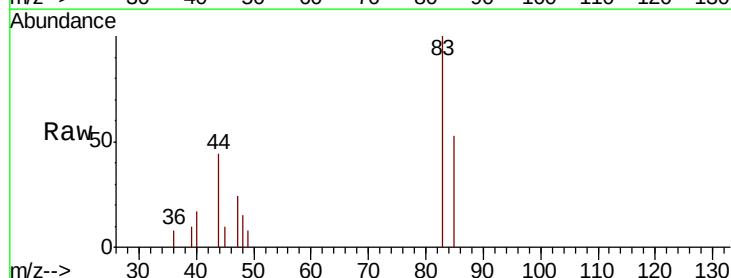
Acq: 14 Sep 2018 12:40

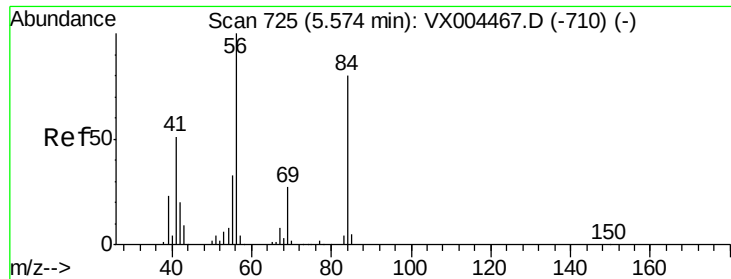
Tgt Ion: 83 Resp: 1948

Ion Ratio Lower Upper

83 100

85 53.2 52.6 79.0

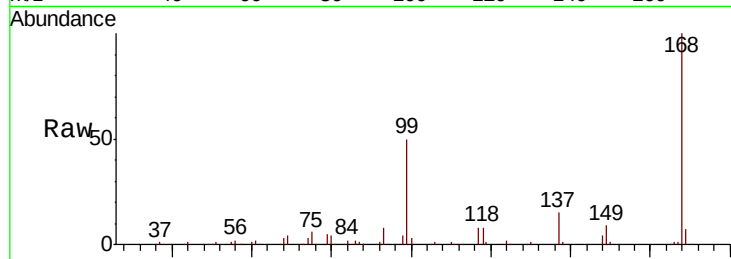




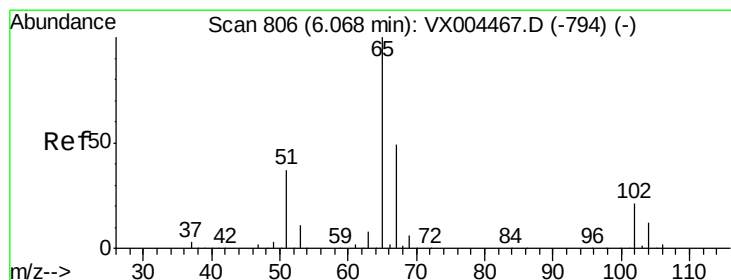
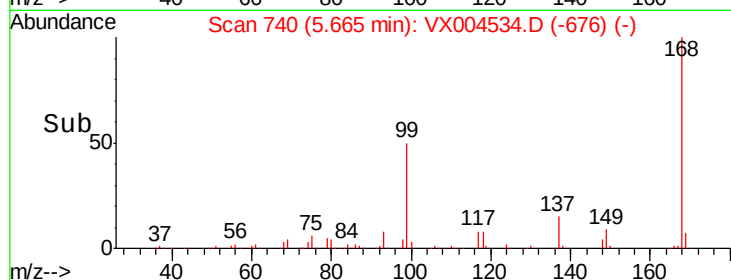
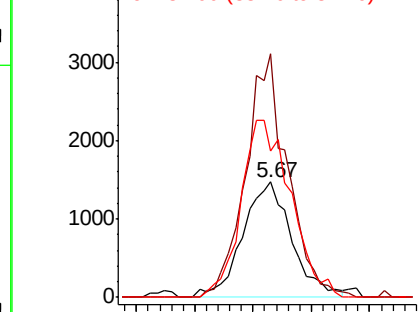
#31
Cyclohexane
Concen: 0.96 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-091218

Tot Ion: 56 Resp: 4325
Ion Ratio Lower Upper
56 100
69 210.7 25.4 38.2#
84 127.1 71.4 107.2#

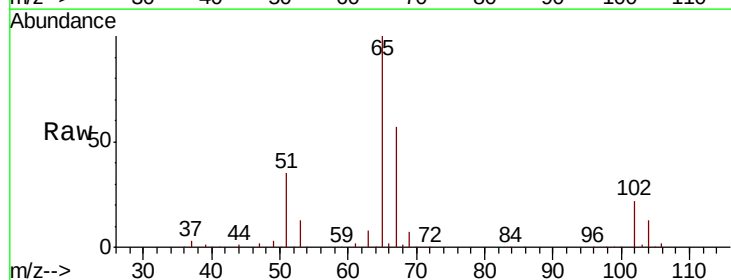


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

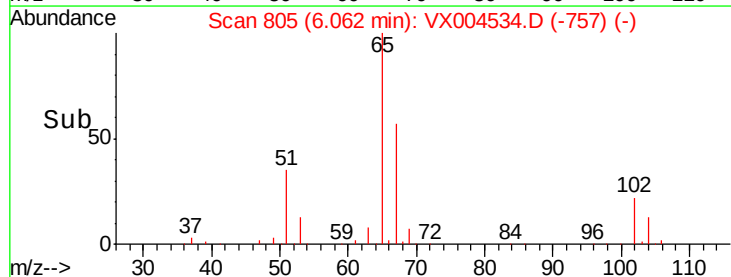
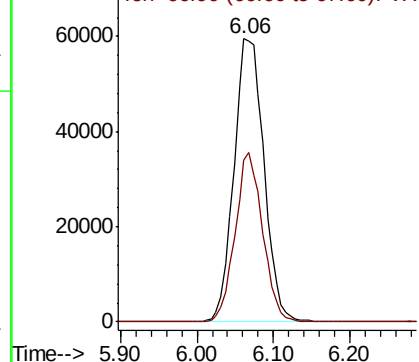


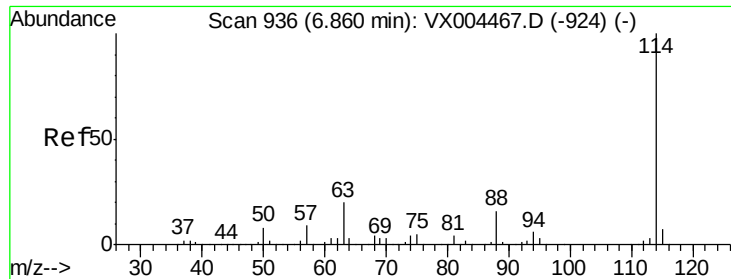
#33
1,2-Dichloroethane-d4
Concen: 52.09 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

Tgt Ion: 65 Resp: 161729
Ion Ratio Lower Upper
65 100
67 54.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-04-091218

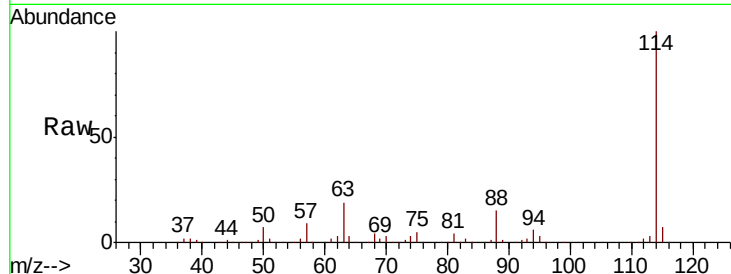
Tot Ion:114 Resp: 333850

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.0

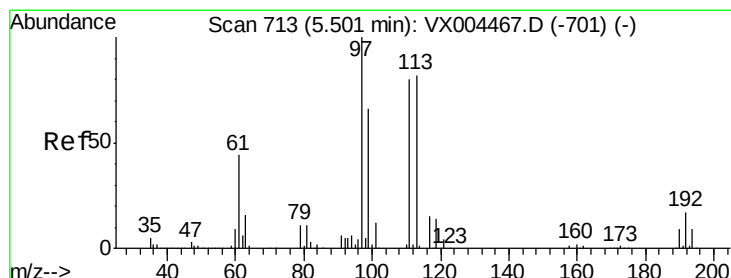
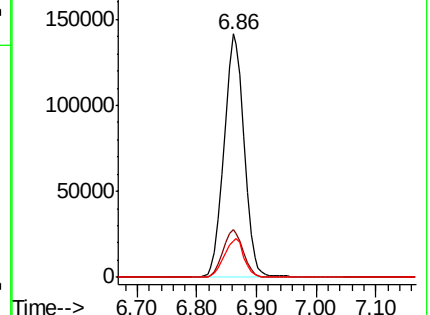
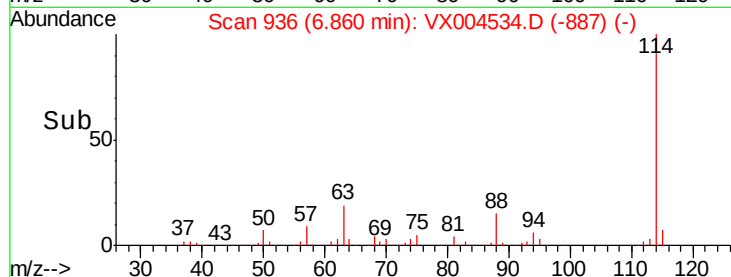
88 15.1 0.0 30.4



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: 49.21 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

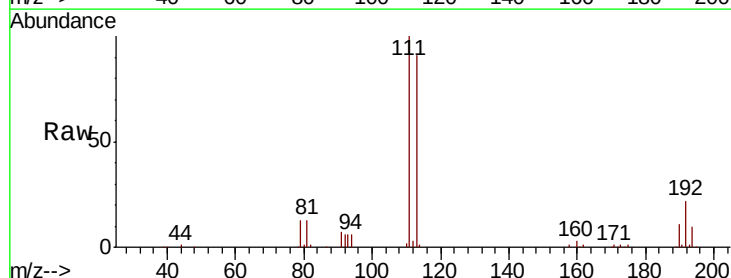
Tgt Ion:113 Resp: 150337

Ion Ratio Lower Upper

113 100

111 100.9 82.4 123.6

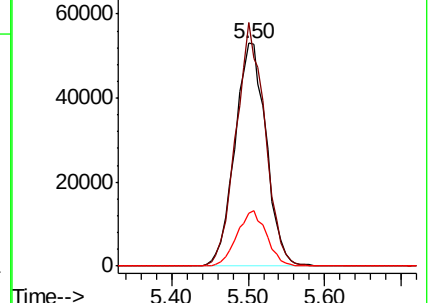
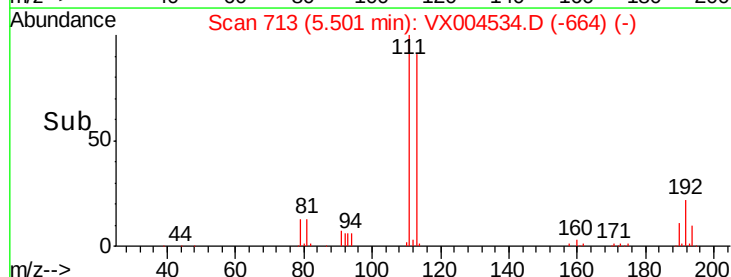
192 23.5 19.4 29.2

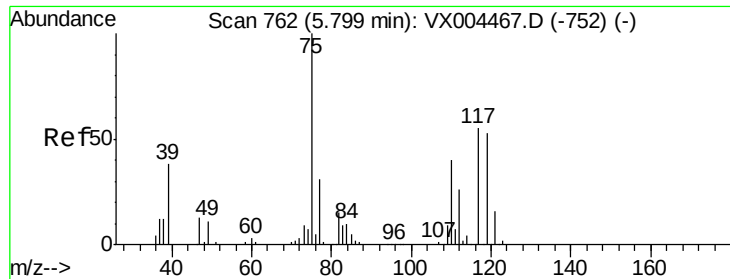


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

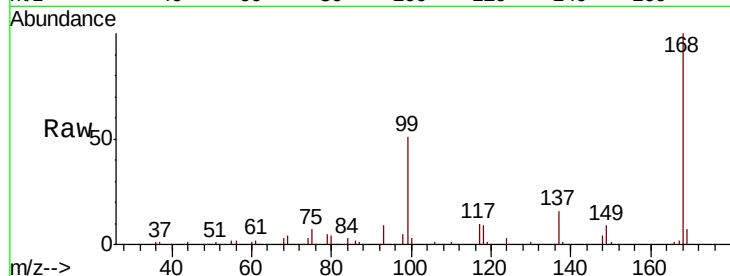




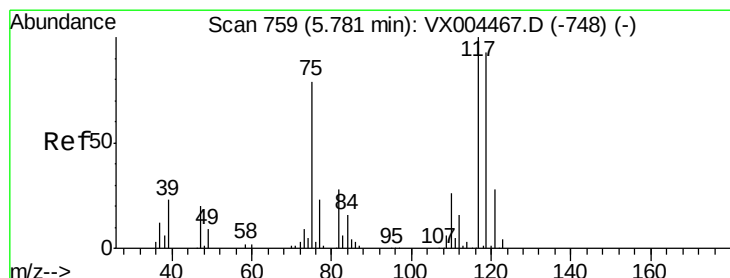
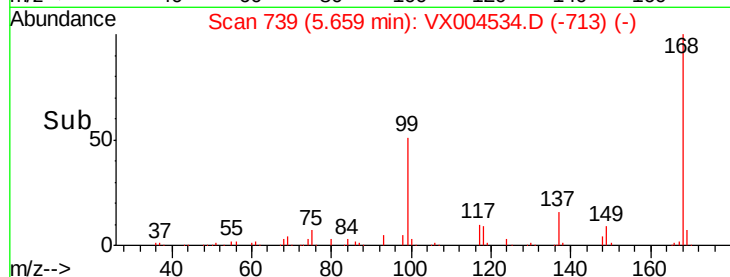
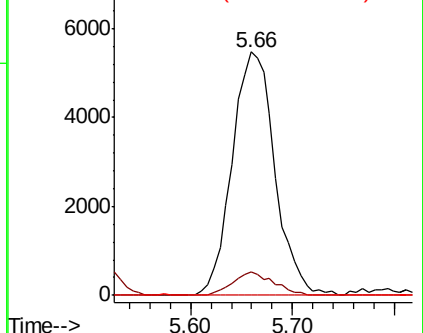
#36
 1,1-Dichloropropene
 Concen: 3.92 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004534.D
 Acq: 14 Sep 2018 12:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-04-091218

Tot Ion	75	Resp	15889
Ion Ratio	100	Lower	Upper
110	9.1	18.0	54.0#
77	0.0	24.6	36.8#

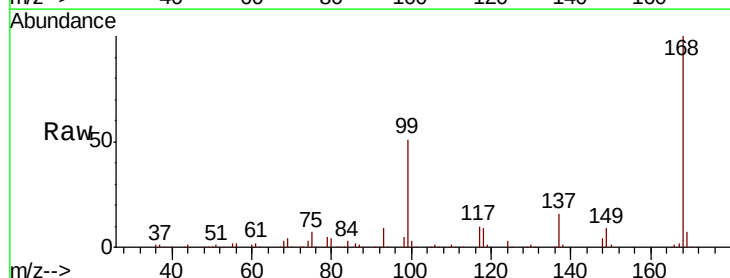


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

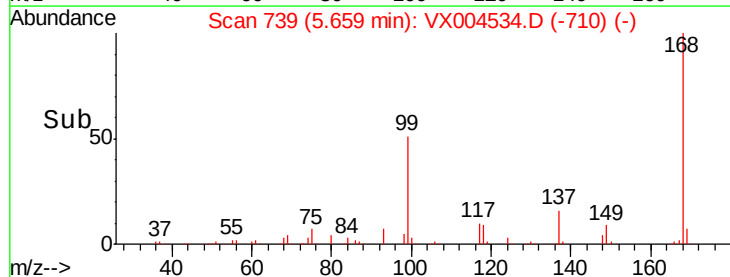
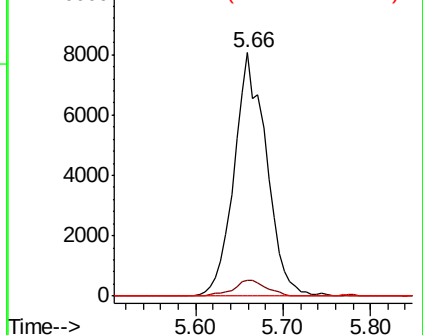


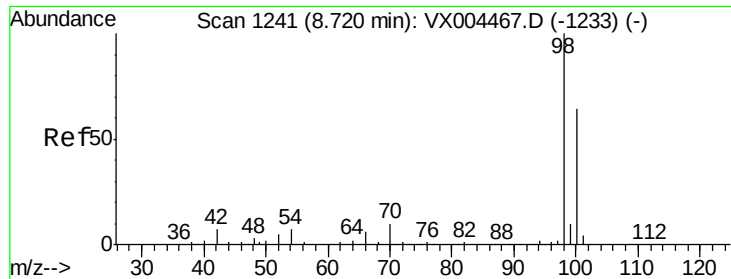
#38
 Carbon Tetrachloride
 Concen: 5.23 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004534.D
 Acq: 14 Sep 2018 12:40

Tgt Ion	117	Resp	20694
Ion Ratio	100	Lower	Upper
119	6.4	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

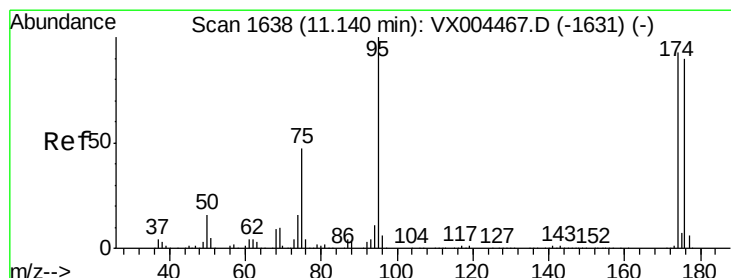
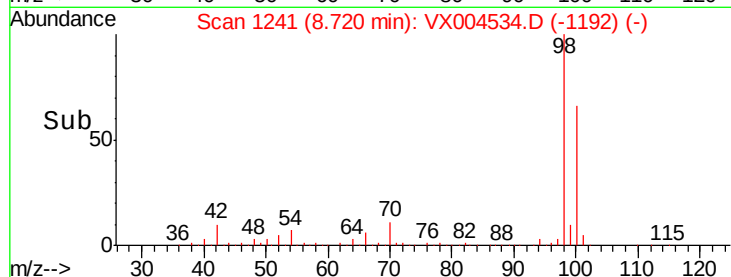
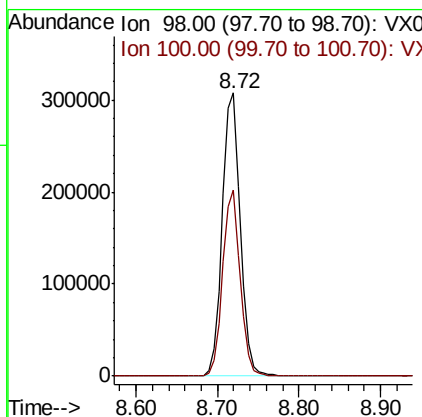
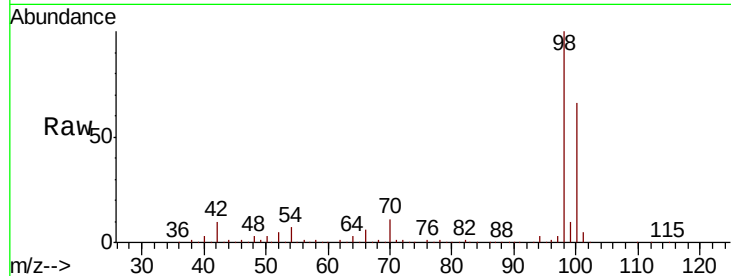




#50
Toluene-d8
Concen: 46.25 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

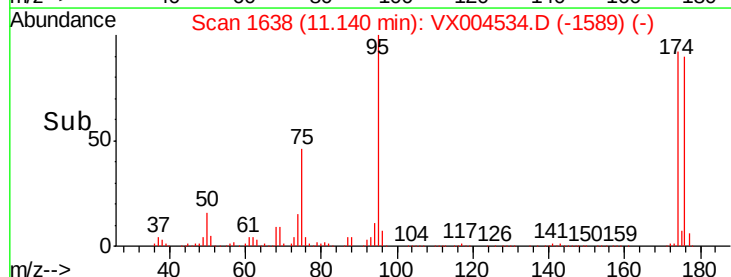
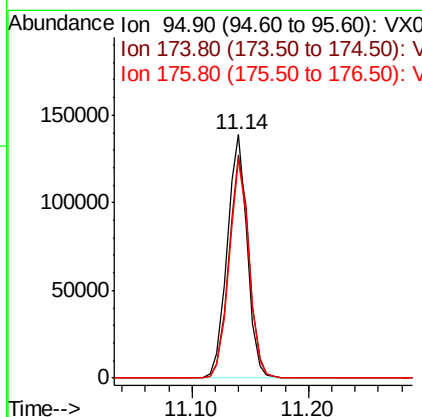
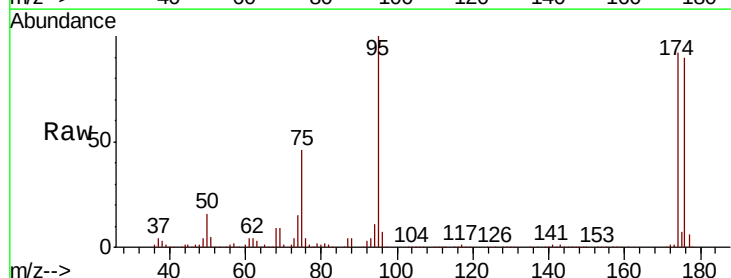
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-091218

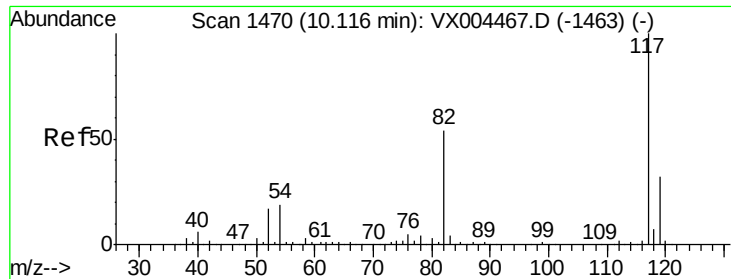
Tot Ion: 98 Resp: 473815
Ion Ratio Lower Upper
98 100
100 63.8 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 45.10 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

Tgt Ion: 95 Resp: 164937
Ion Ratio Lower Upper
95 100
174 93.3 0.0 185.2
176 89.4 0.0 178.6

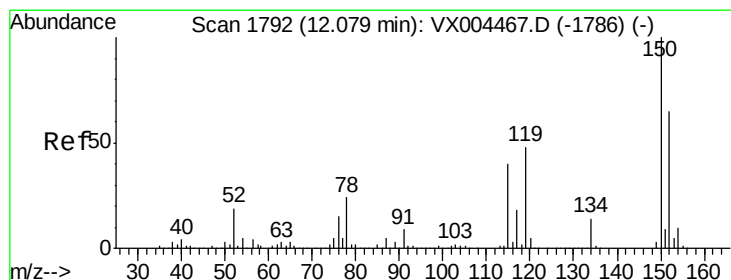
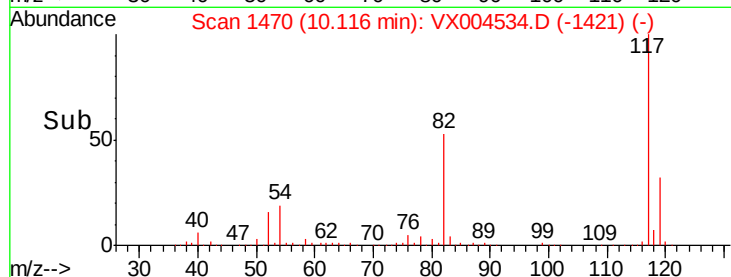
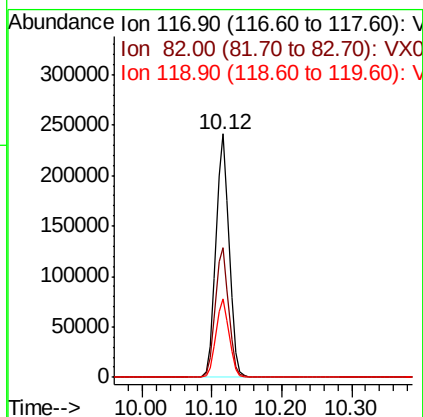
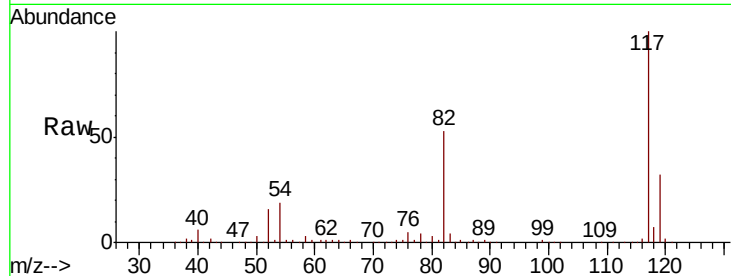




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

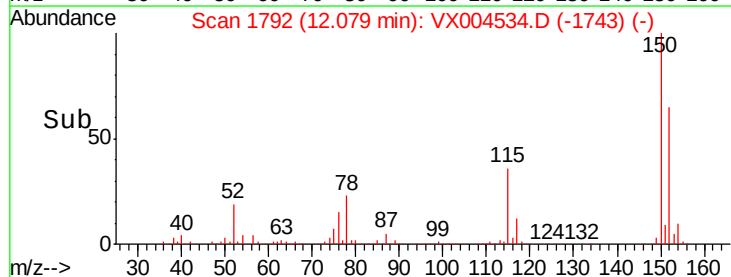
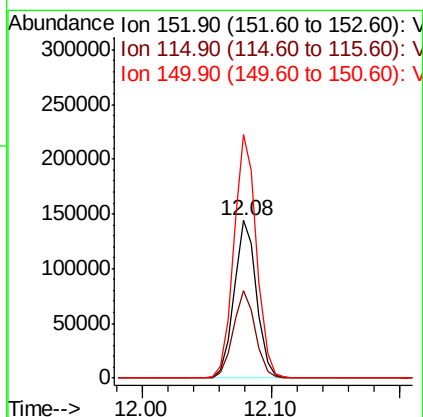
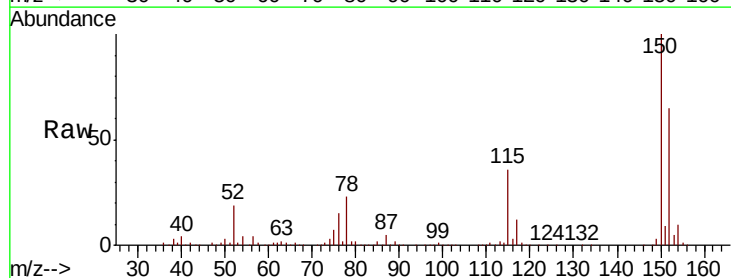
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-04-091218

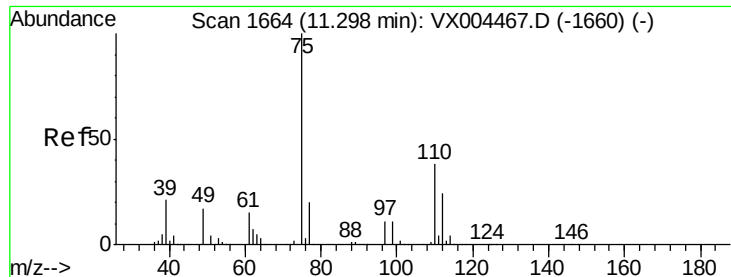
Tot Ion:117 Resp: 317002
Ion Ratio Lower Upper
117 100
82 53.0 47.8 71.6
119 32.3 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004534.D
Acq: 14 Sep 2018 12:40

Tgt Ion:152 Resp: 174735
Ion Ratio Lower Upper
152 100
115 54.9 39.0 117.0
150 155.4 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.21 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

Instrument :

MSVOA_X

ClientSampleId :

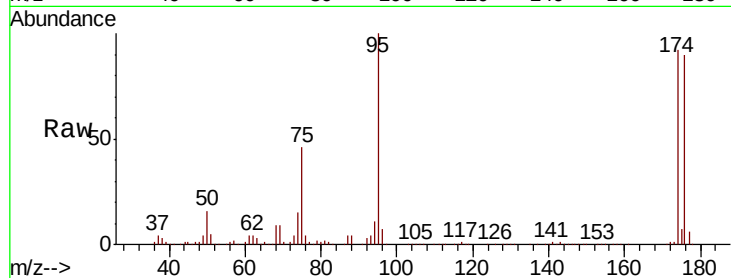
PR-MW-04-091218

Tot Ion: 75 Resp: 78074

Ion Ratio Lower Upper

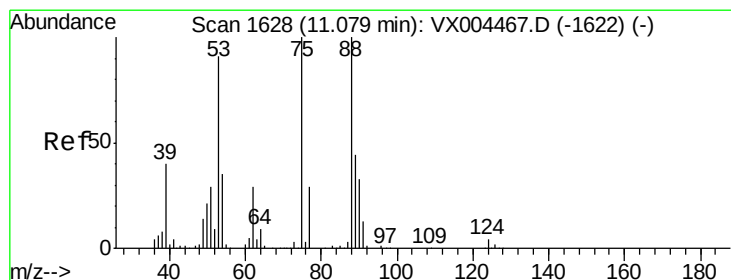
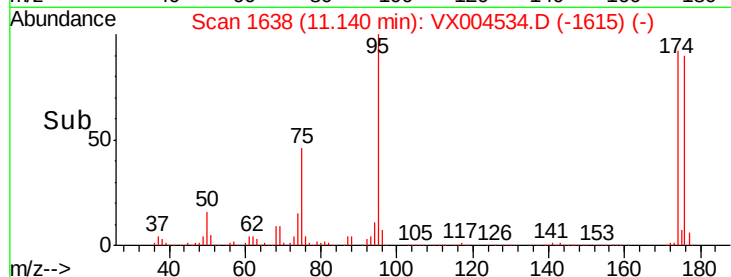
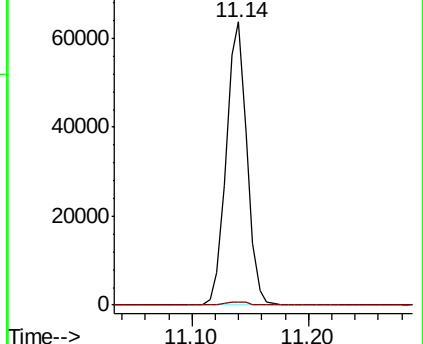
75 100

77 1.2 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: 70.79 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004534.D

Acq: 14 Sep 2018 12:40

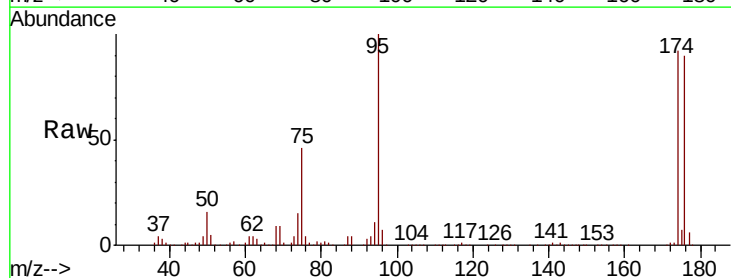
Tgt Ion: 75 Resp: 78074

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

