

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091818\
 Data File : VX004676.D
 Acq On : 19 Sep 2018 00:16
 Operator : JC/MD
 Sample : J4913-03DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW305I-20180911DL

Quant Time: Sep 19 05:42:58 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	253500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	350625	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	202299	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	155704	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
35) Dibromofluoromethane	5.51	113	148492	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	
50) Toluene-d8	8.71	98	488756	45.42	ug/l	0.00
Spiked Amount			Recovery	=	90.84%	
62) 4-Bromofluorobenzene	11.14	95	172391	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	

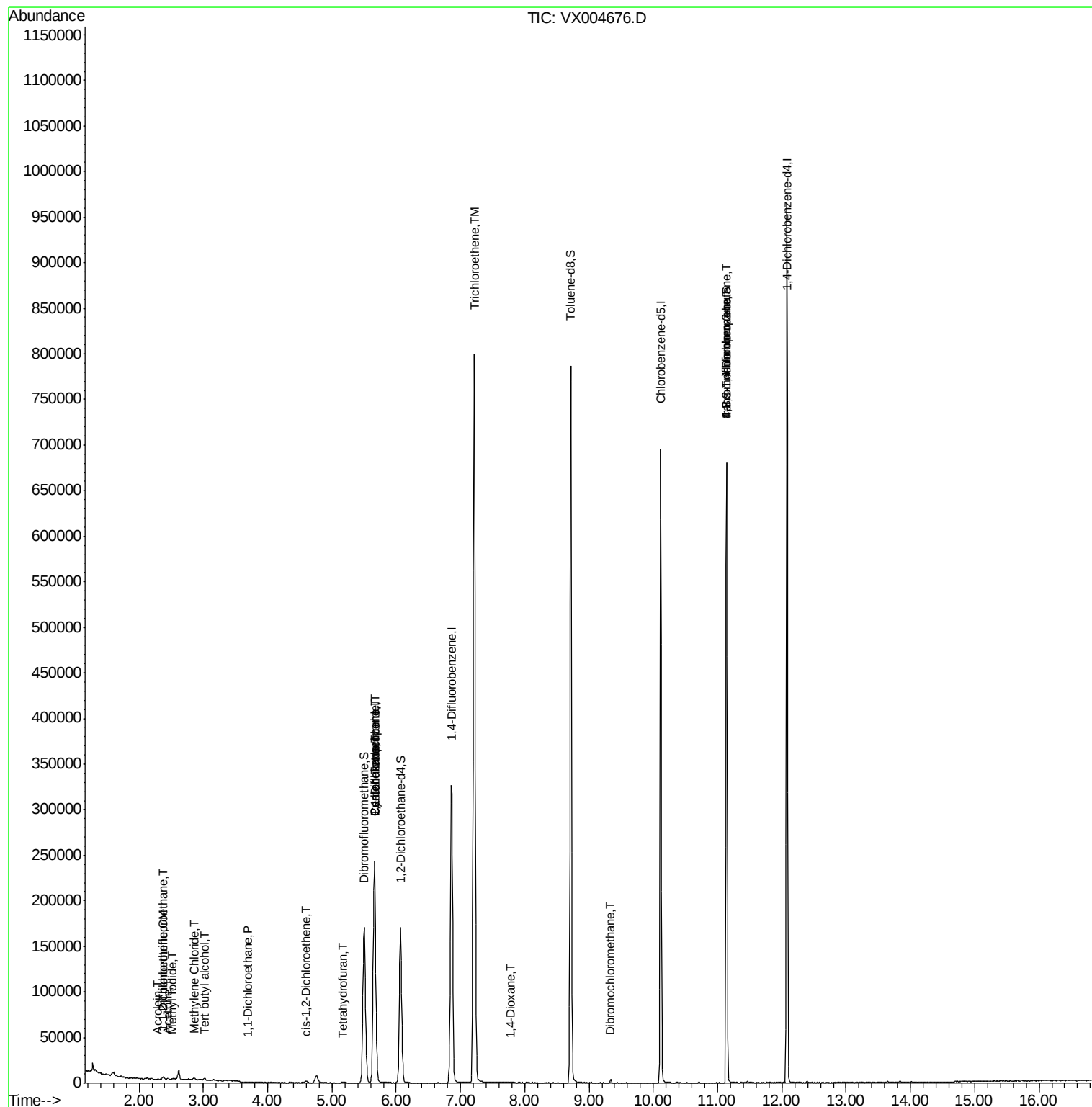
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	793	Below Cal	#	75
9) 1,1,2-Trichlorotrifluoroet	2.38	101	584	0.207	ug/l	92
10) Methyl Iodide	2.52	142	911	4.503	ug/l	93
11) Tert butyl alcohol	3.02	59	1495	1.917	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	629	0.237	ug/l	95
13) Acrolein	2.28	56	66	0.214	ug/l #	53
16) Acetone	2.44	43	1042	0.653	ug/l	92
20) Methylene Chloride	2.85	84	887	0.271	ug/l #	87
24) 1,1-Dichloroethane	3.69	63	1167	0.211	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	1347	0.412	ug/l	96
29) Tetrahydrofuran	5.17	42	483	0.315	ug/l #	42
31) Cyclohexane	5.67	56	3941	0.834	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15212	3.574	ug/l #	50
38) Carbon Tetrachloride	5.66	117	22129	5.322	ug/l #	14
44) Trichloroethene	7.21	130	332809	101.426	ug/l	98
49) 1,4-Dioxane	7.77	88	76	1.009	ug/l #	50
60) Dibromochloromethane	9.34	129	681	0.226	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	79750	19.594	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	79750	62.456	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: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

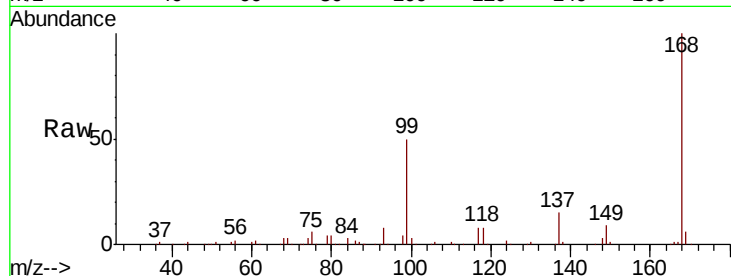
BPS1-TT-MW305I-20180911DL

Tgt Ion:168 Resp: 253500

Ion Ratio Lower Upper

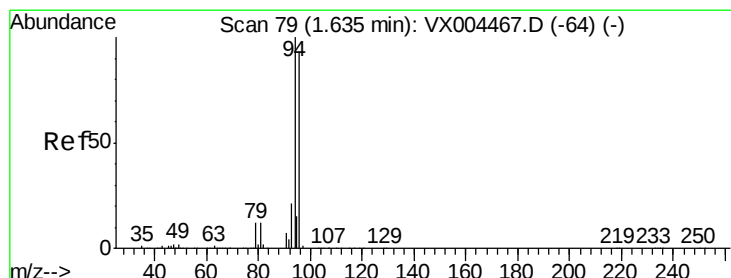
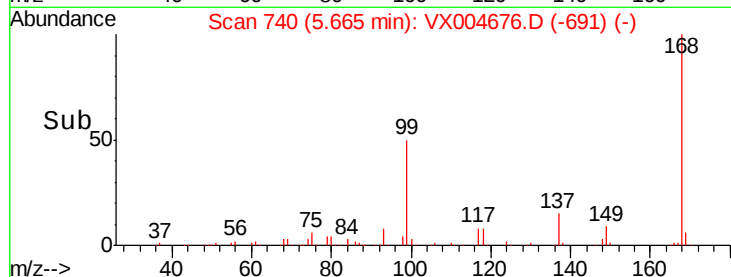
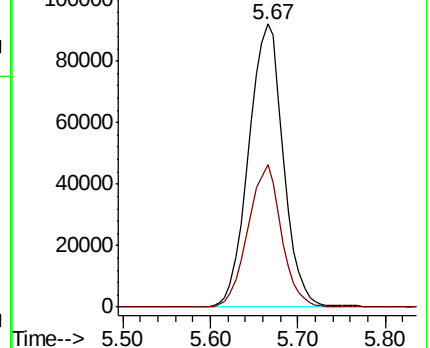
168 100

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

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004676.D

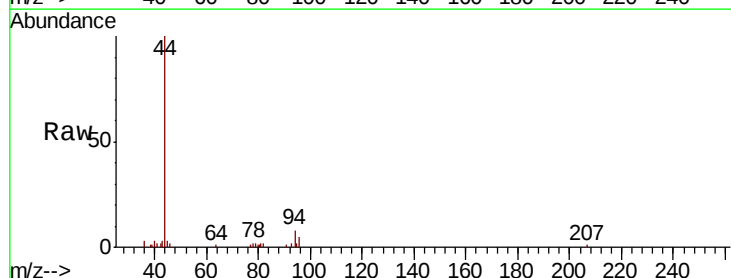
Acq: 19 Sep 2018 00:16

Tgt Ion: 94 Resp: 793

Ion Ratio Lower Upper

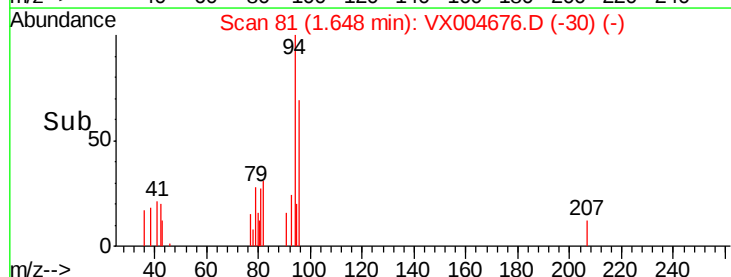
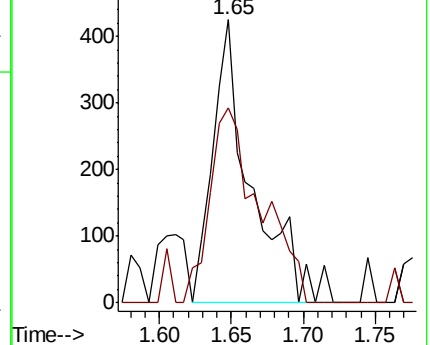
94 100

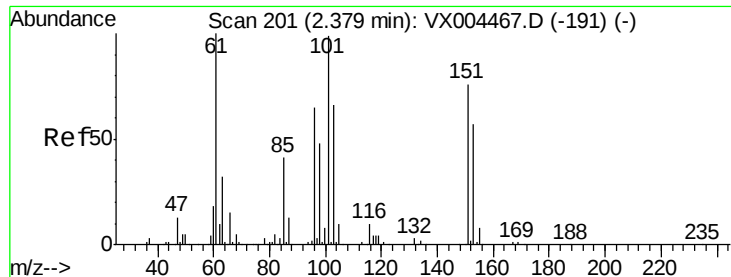
96 68.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.207 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW305I-20180911DL

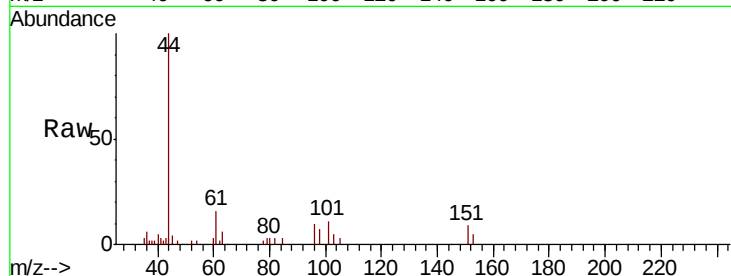
Tgt Ion:101 Resp: 584

Ion Ratio Lower Upper

101 100

85 41.8 34.2 51.4

151 71.1 65.0 97.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

2.38

300

200

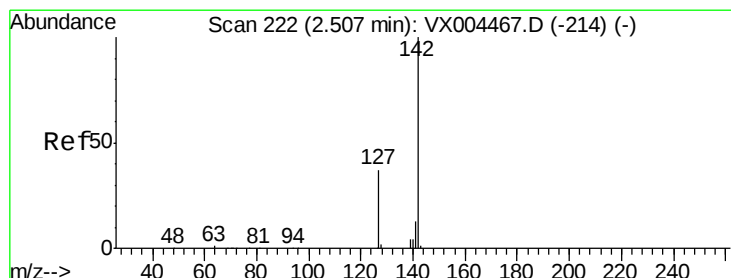
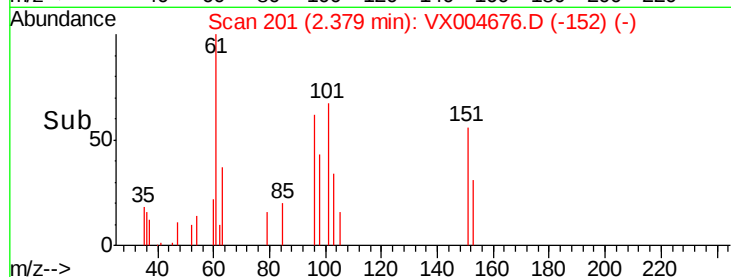
100

0

2.35

2.40

Time-->



#10

Methyl Iodide

Concen: 4.503 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

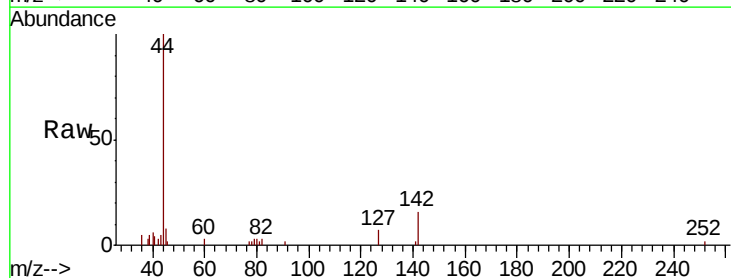
Tgt Ion:142 Resp: 911

Ion Ratio Lower Upper

142 100

127 36.6 33.8 50.6

141 14.4 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

2.52

500

400

300

200

100

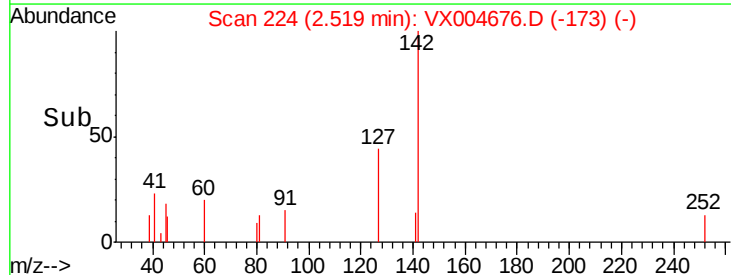
0

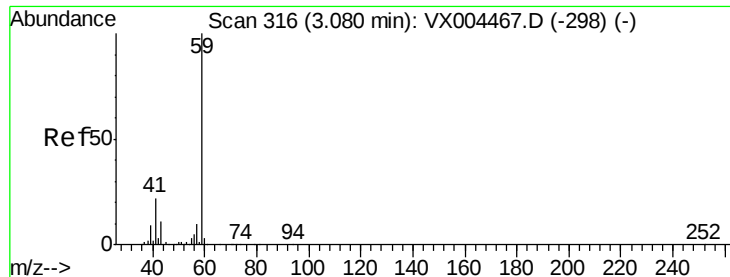
2.45

2.50

2.55

Time-->

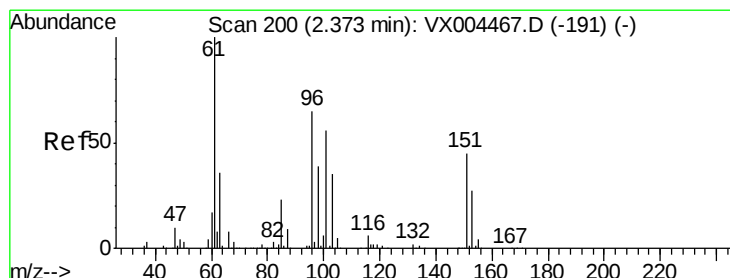
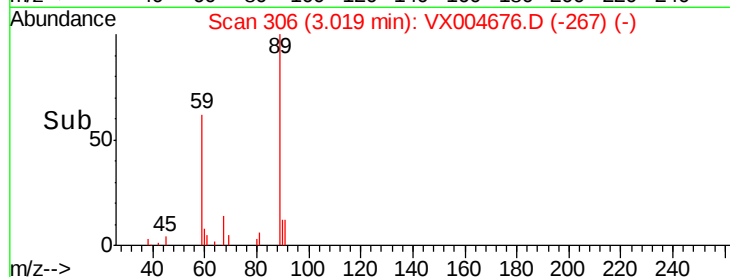
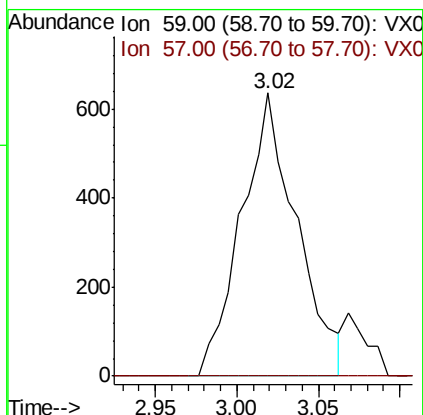
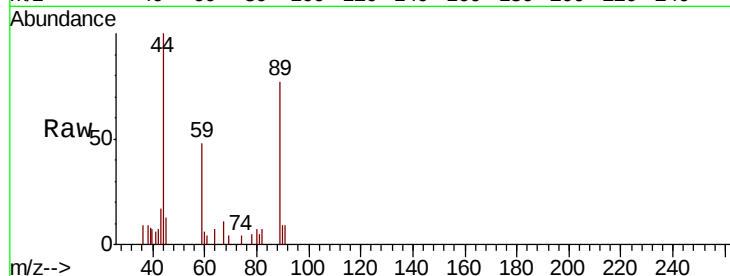




#11
Tert butyl alcohol
Concen: 1.917 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

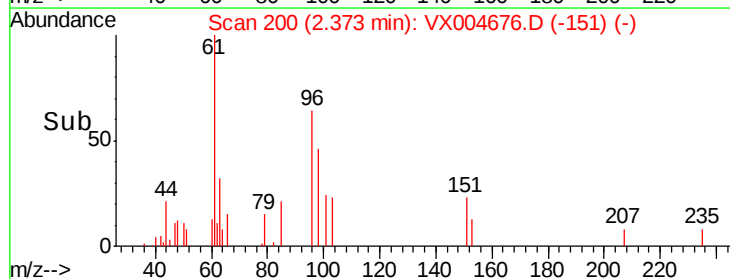
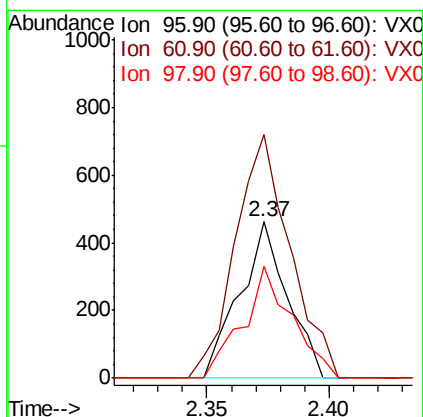
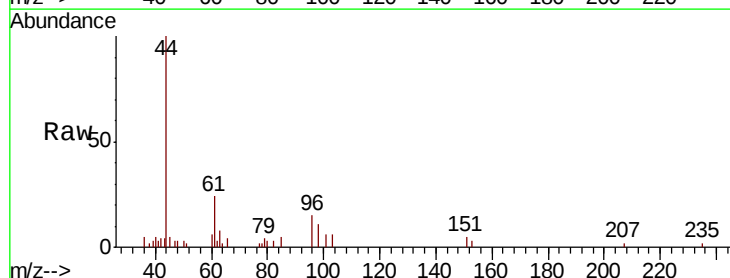
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW305I-20180911DL

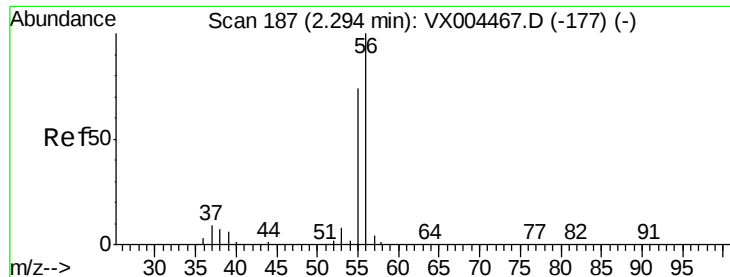
Tgt Ion: 59 Resp: 1495
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 0.237 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

Tgt Ion: 96 Resp: 629
Ion Ratio Lower Upper
96 100
61 156.2 128.8 193.2
98 71.4 52.2 78.2





#13

Acrolein

Concen: 0.214 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

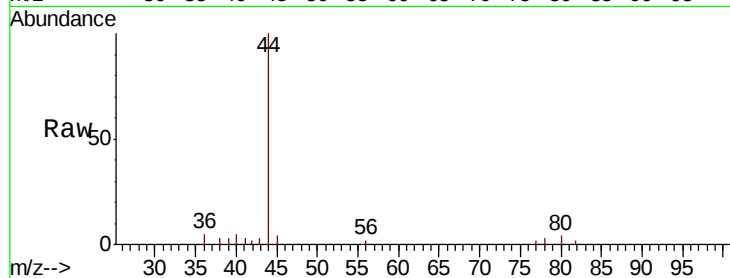
BPS1-TT-MW305I-20180911DL

Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

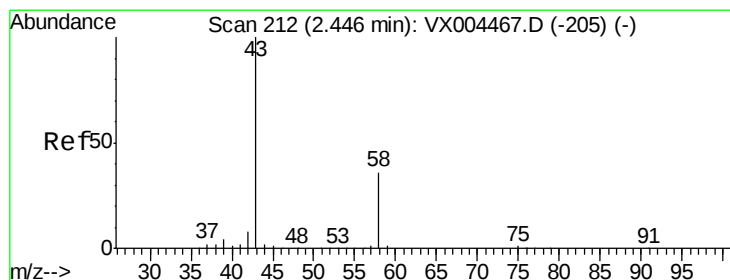
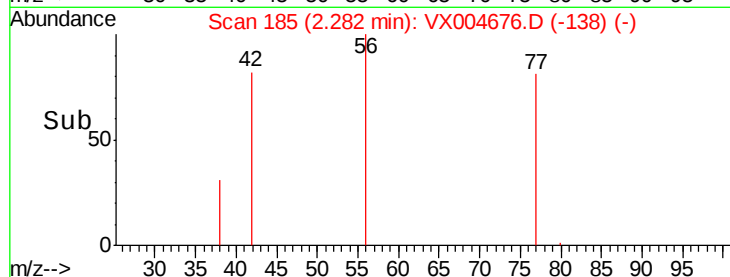
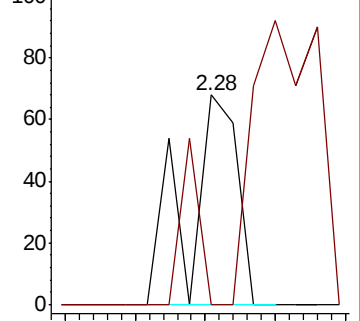
56 100

55 30.3 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.653 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004676.D

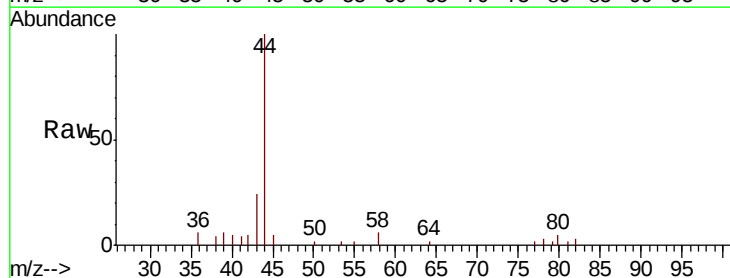
Acq: 19 Sep 2018 00:16

Tgt Ion: 43 Resp: 1042

Ion Ratio Lower Upper

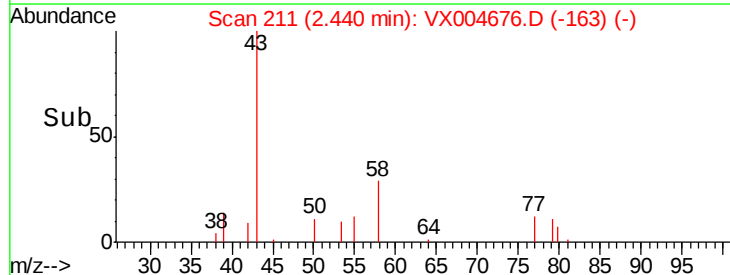
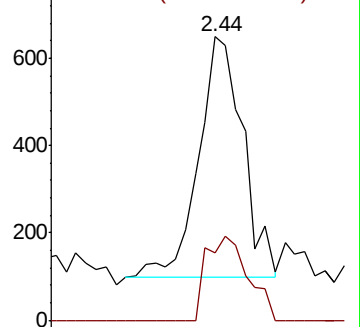
43 100

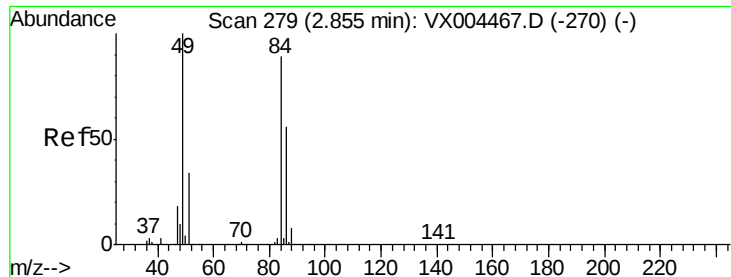
58 28.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: 0.271 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW305I-20180911DL

Tgt Ion: 84 Resp: 887

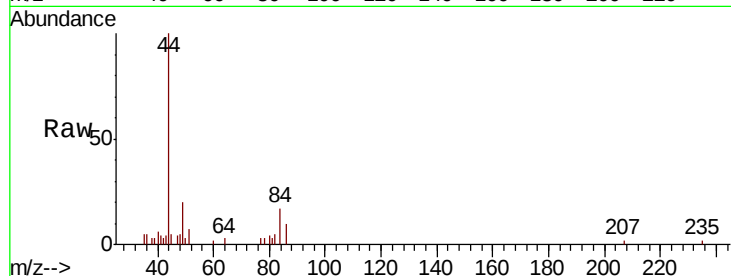
Ion Ratio Lower Upper

84 100

49 112.3 101.2 151.8

51 29.5 29.5 44.3#

86 55.4 52.3 78.5

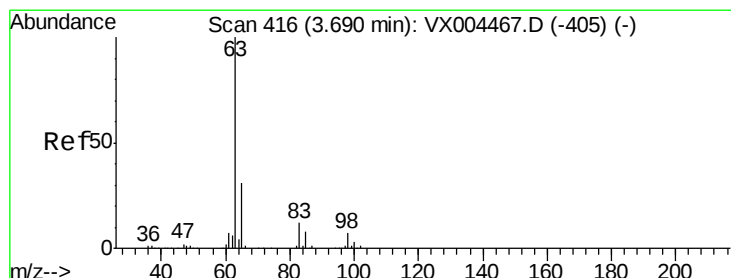
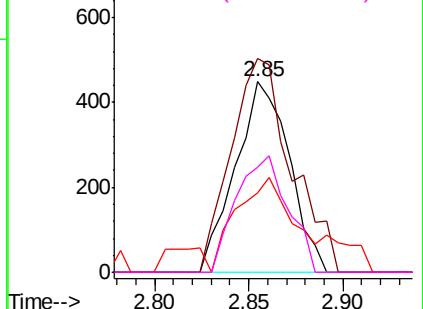
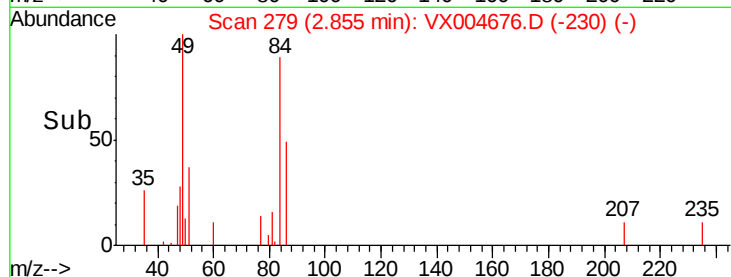


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#24

1,1-Dichloroethane

Concen: 0.211 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.00 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

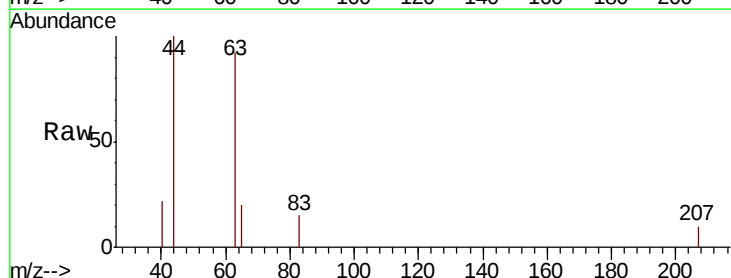
Tgt Ion: 63 Resp: 1167

Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

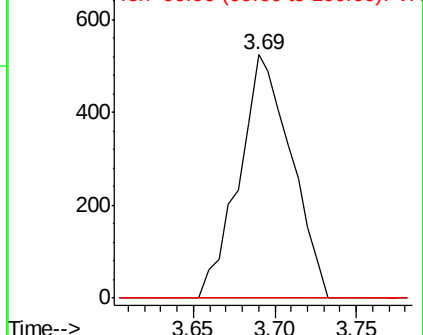
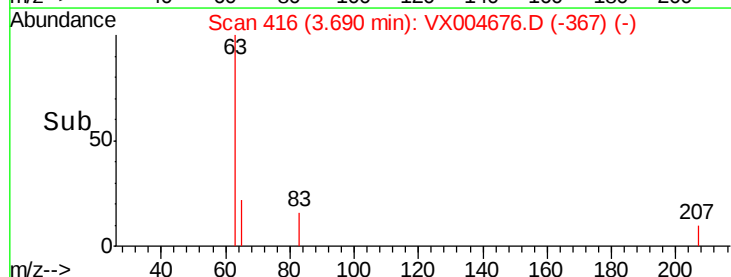
100 0.0 2.4 7.1#

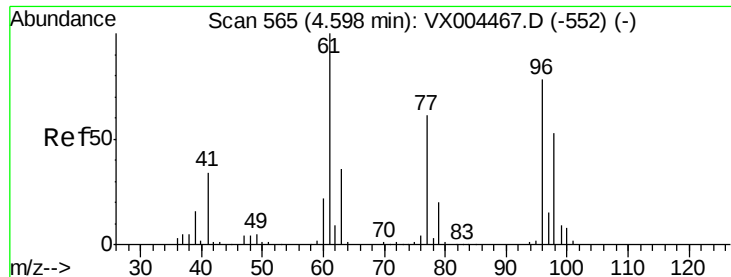


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.412 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW305I-20180911DL

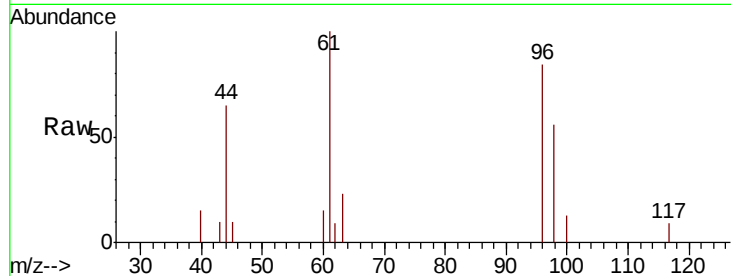
Tgt Ion: 96 Resp: 1347

Ion Ratio Lower Upper

96 100

61 136.7 0.0 282.6

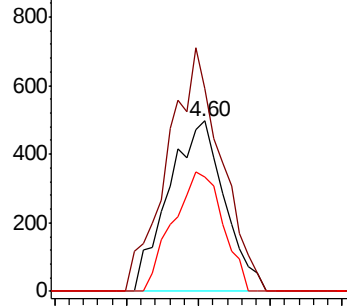
98 62.2 0.0 130.2



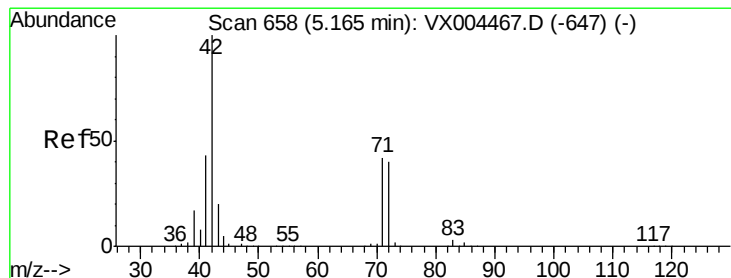
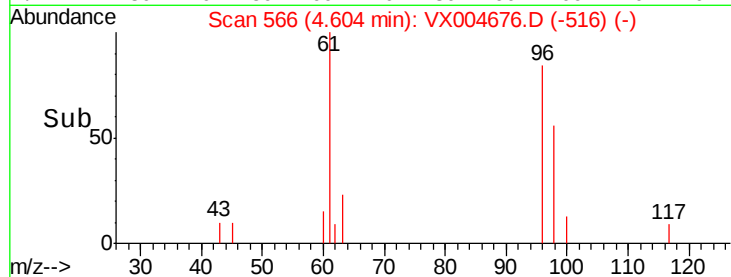
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.315 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

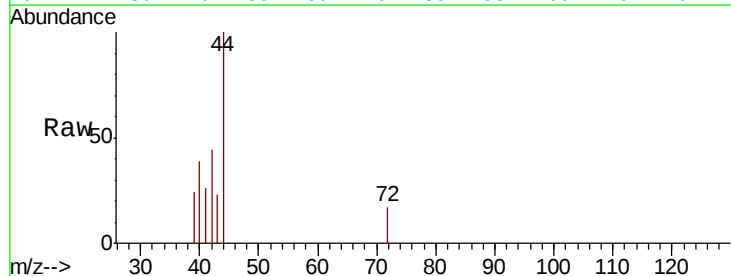
Tgt Ion: 42 Resp: 483

Ion Ratio Lower Upper

42 100

72 9.5 37.4 56.0#

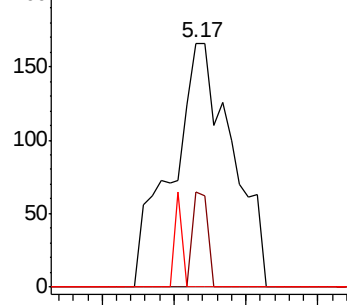
71 5.0 34.5 51.7#



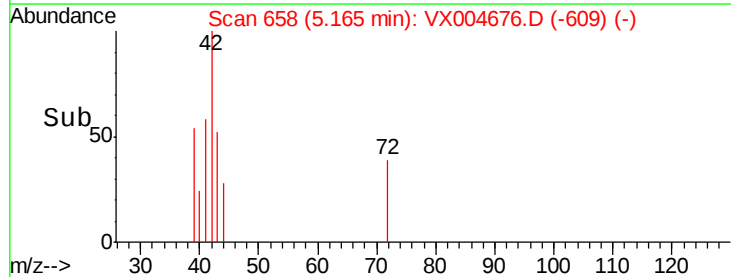
Abundance Ion 42.00 (41.70 to 42.70): VX0

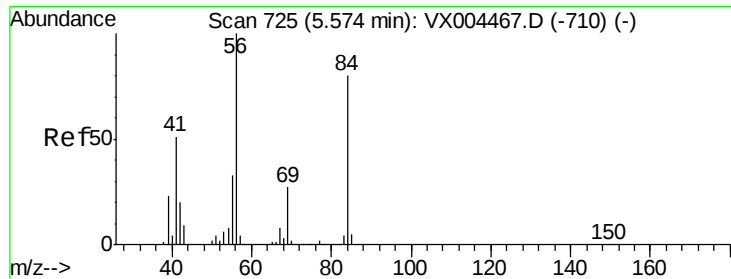
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->

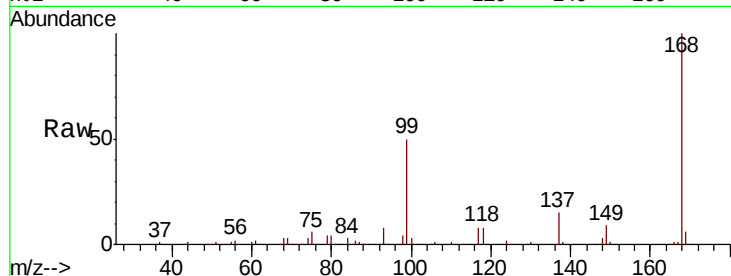




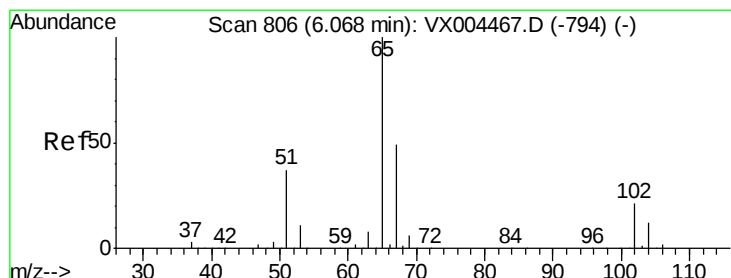
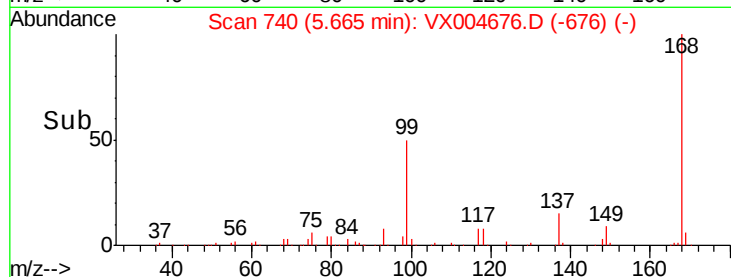
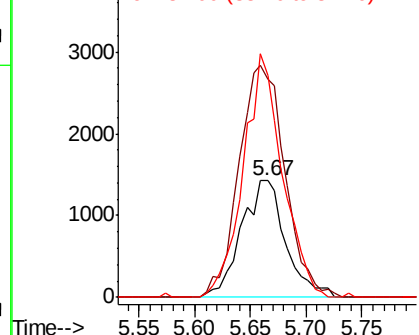
#31
Cyclohexane
Concen: 0.834 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW305I-20180911DL

Tgt Ion: 56 Resp: 3941
Ion Ratio Lower Upper
56 100
69 186.8 25.4 38.2#
84 190.2 71.4 107.2#

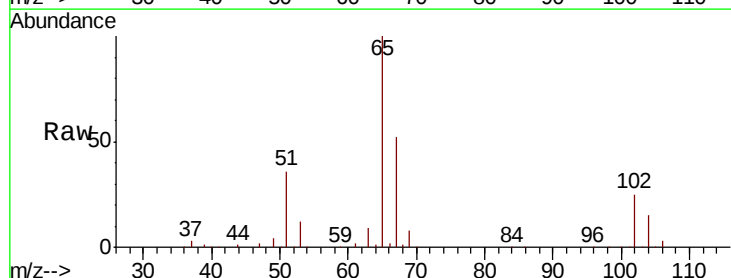


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

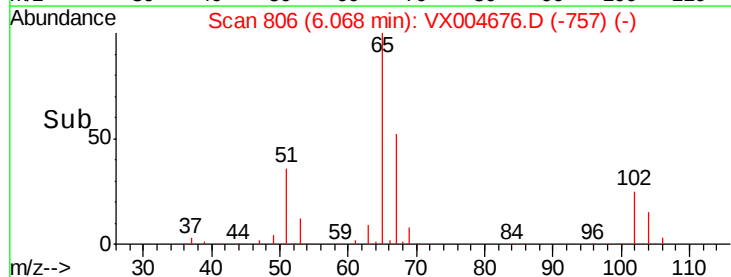
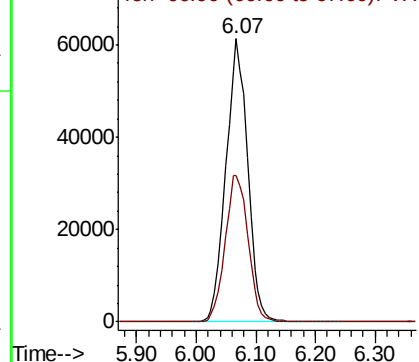


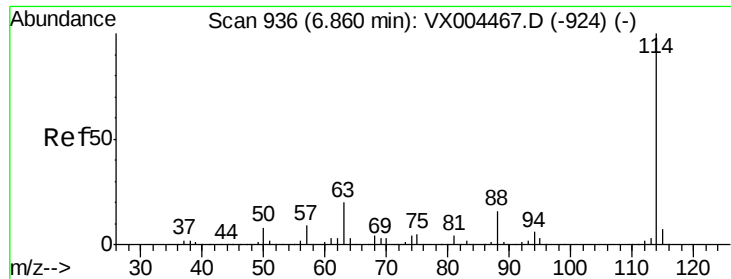
#33
1,2-Dichloroethane-d4
Concen: 47.636 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

Tgt Ion: 65 Resp: 155704
Ion Ratio Lower Upper
65 100
67 54.6 0.0 106.8



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

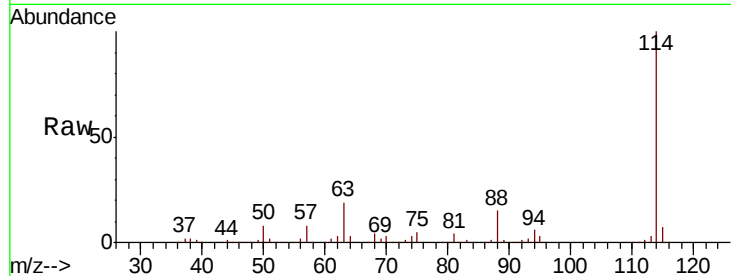




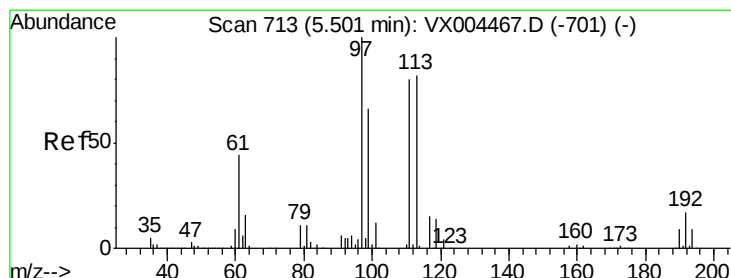
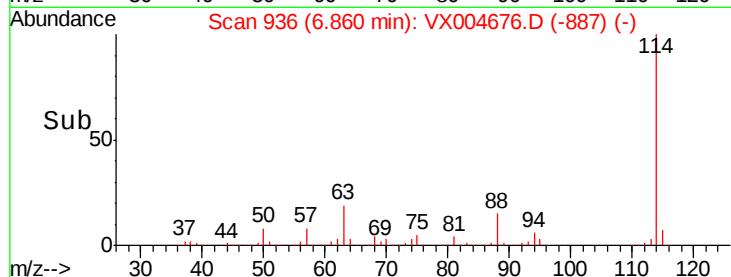
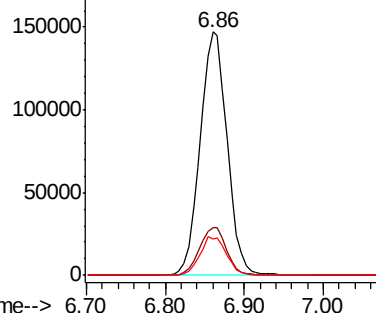
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004676.D
 Acq: 19 Sep 2018 00:16

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW305I-20180911DL

Tgt Ion:114 Resp: 350625
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.0
 88 15.0 0.0 30.4

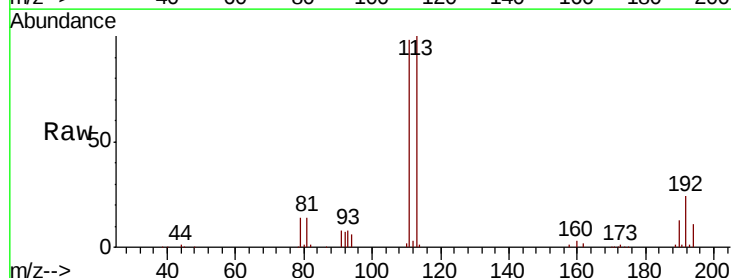


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

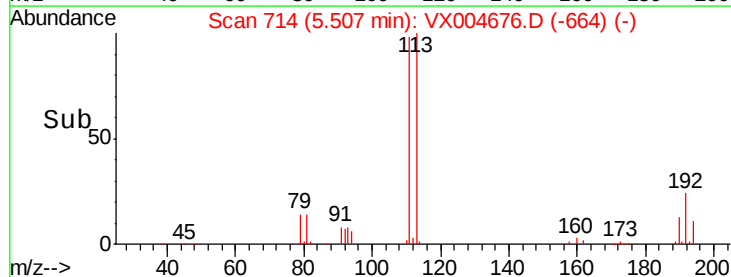
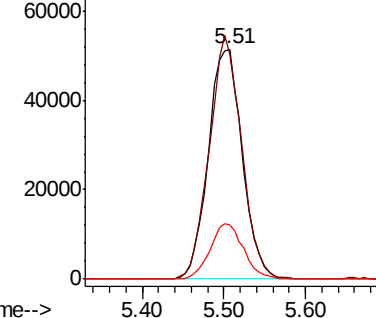


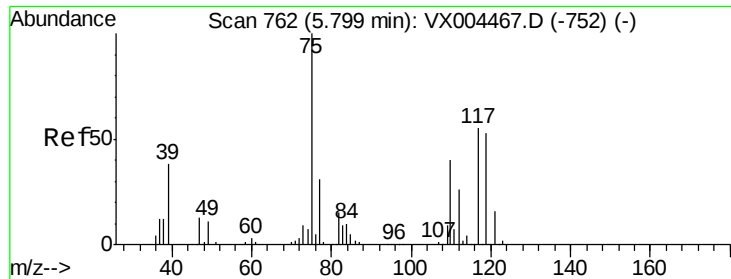
#35
 Dibromofluoromethane
 Concen: 46.280 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX004676.D
 Acq: 19 Sep 2018 00:16

Tgt Ion:113 Resp: 148492
 Ion Ratio Lower Upper
 113 100
 111 100.6 82.4 123.6
 192 23.7 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

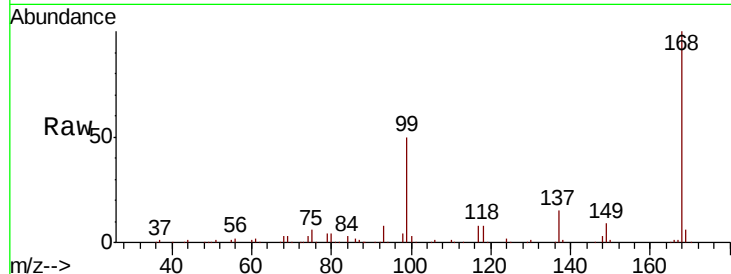




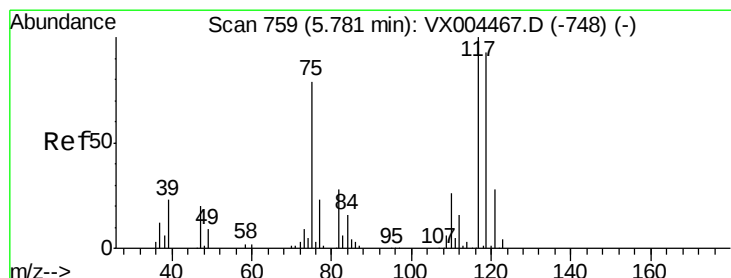
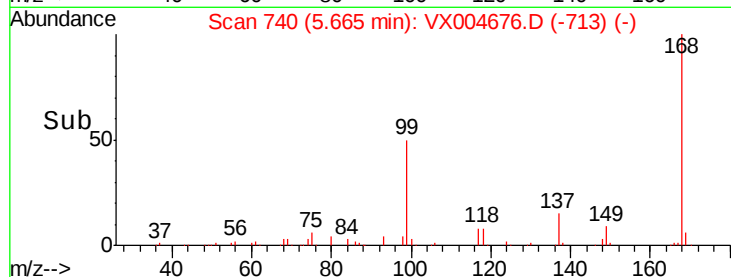
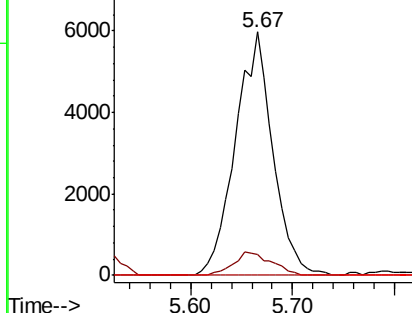
#36
 1,1-Dichloropropene
 Concen: 3.574 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004676.D
 Acq: 19 Sep 2018 00:16

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW305I-20180911DL

Tgt Ion: 75 Resp: 15212
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.0 54.0#
 77 0.0 24.6 36.8#

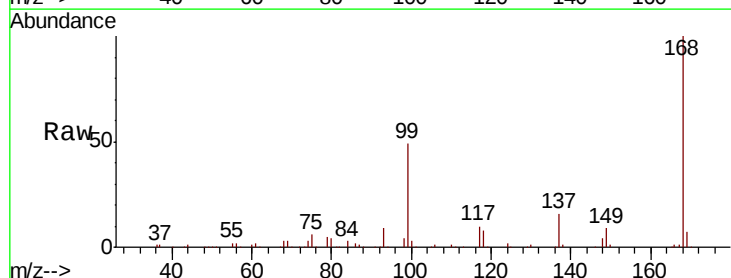


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

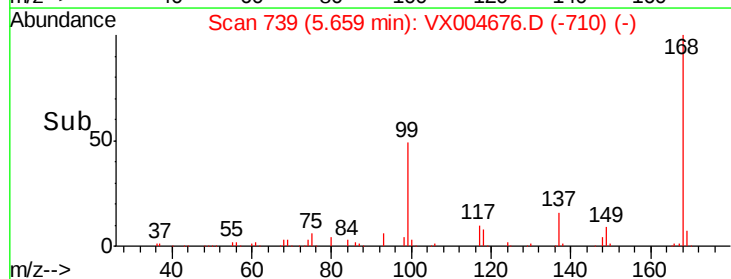
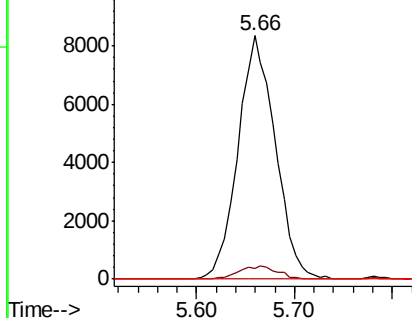


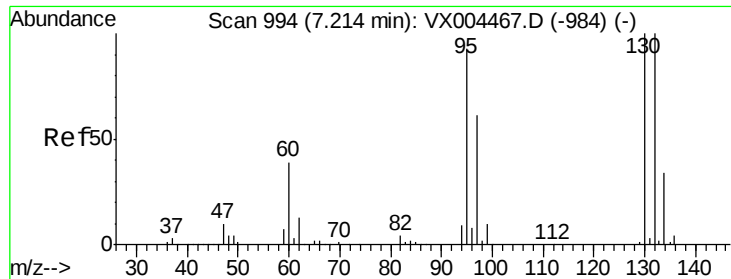
#38
 Carbon Tetrachloride
 Concen: 5.322 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004676.D
 Acq: 19 Sep 2018 00:16

Tgt Ion: 117 Resp: 22129
 Ion Ratio Lower Upper
 117 100
 119 4.6 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





#44

Trichloroethene

Concen: 101.426 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

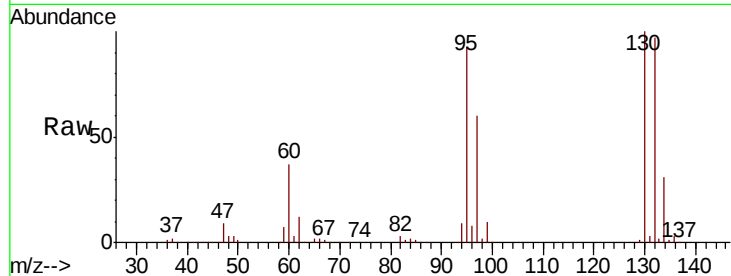
BPS1-TT-MW305I-20180911DL

Tgt Ion:130 Resp: 332809

Ion Ratio Lower Upper

130 100

95 92.9 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

150000

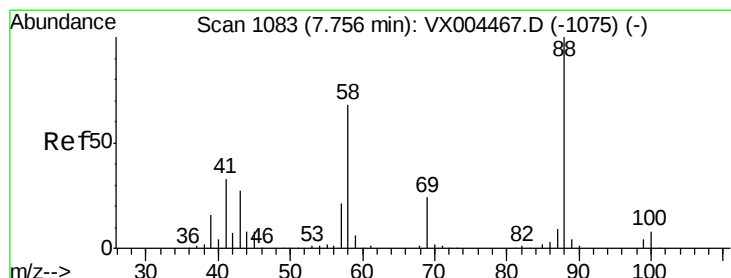
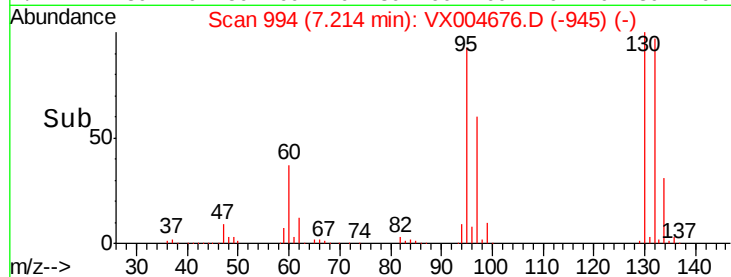
100000

50000

0

Time-->

7.10 7.20 7.30 7.40



#49

1,4-Dioxane

Concen: 1.009 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

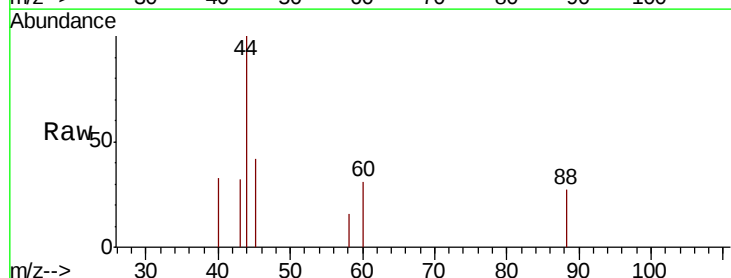
Tgt Ion: 88 Resp: 76

Ion Ratio Lower Upper

88 100

43 113.2 24.7 37.1#

58 64.5 55.3 82.9



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

200

150

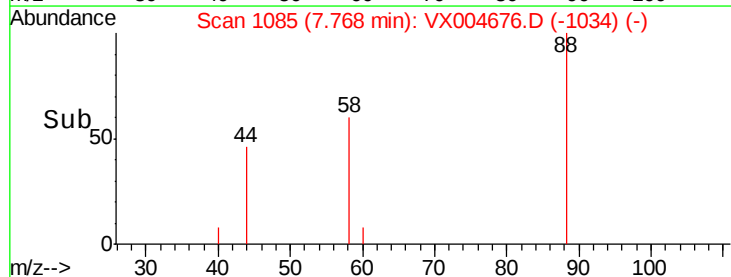
100

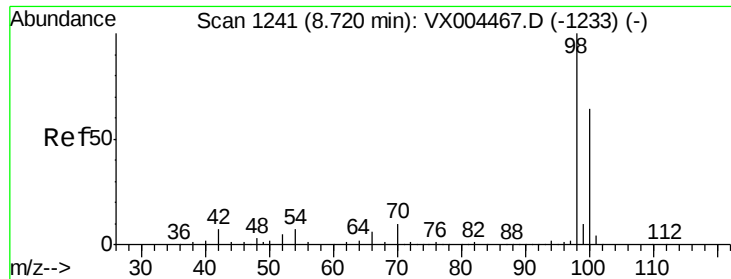
50

0

Time-->

7.74 7.76 7.78 7.80

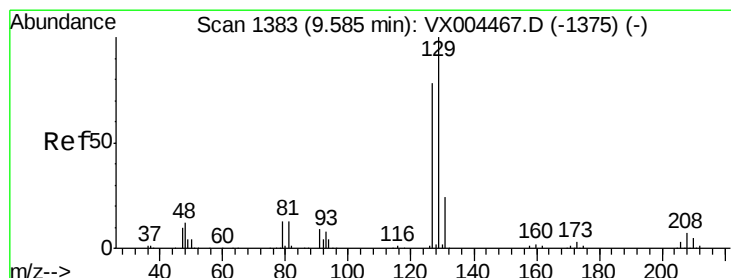
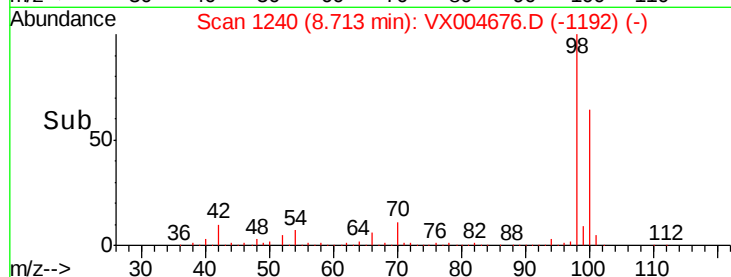
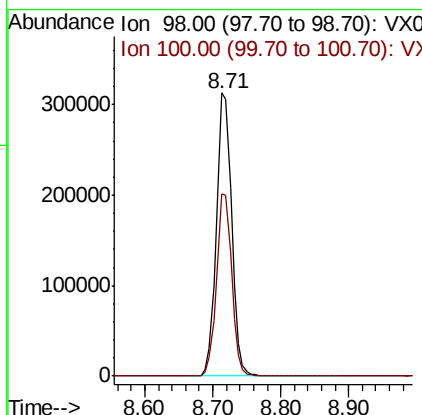
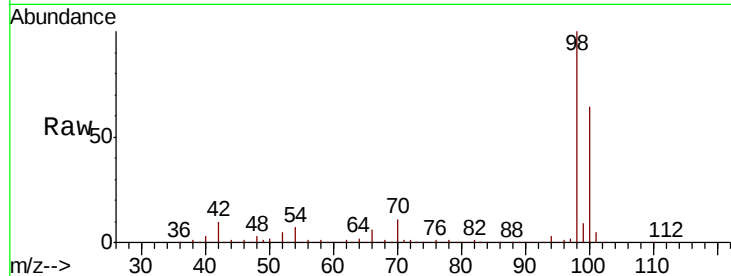




#50
Toluene-d8
Concen: 45.424 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

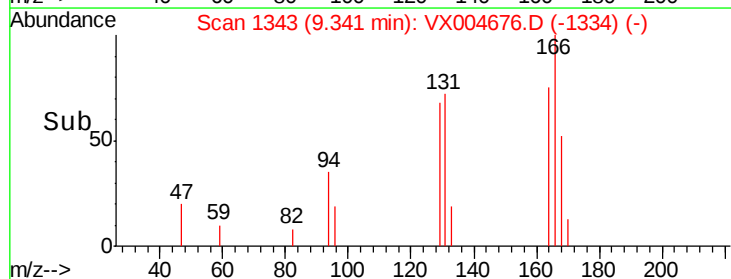
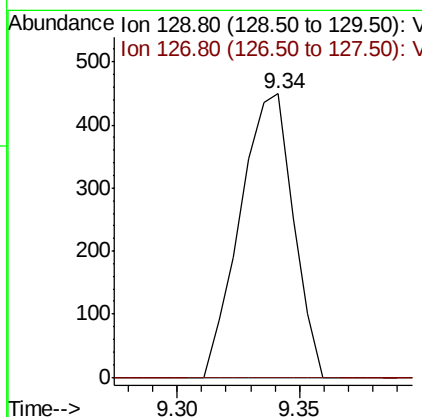
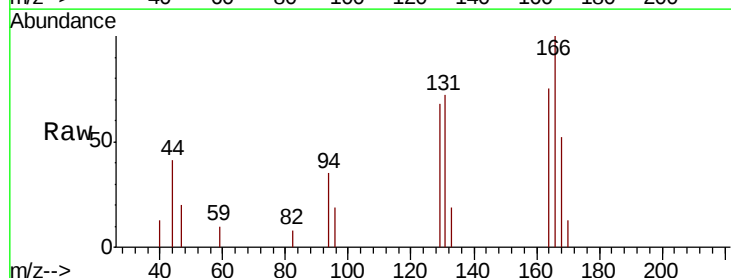
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW305I-20180911DL

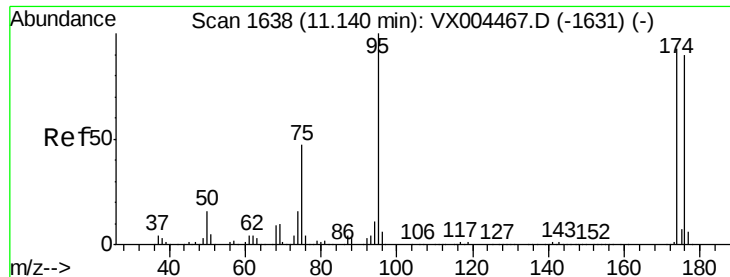
Tgt Ion: 98 Resp: 488756
Ion Ratio Lower Upper
98 100
100 64.3 52.9 79.3



#60
Dibromochloromethane
Concen: 0.226 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. -0.24 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

Tgt Ion: 129 Resp: 681
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#

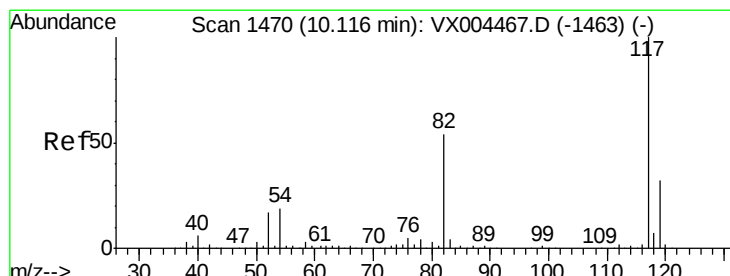
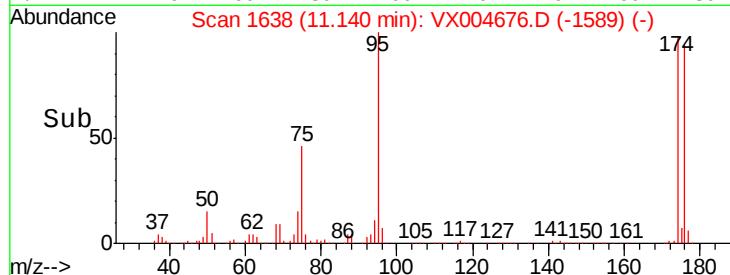
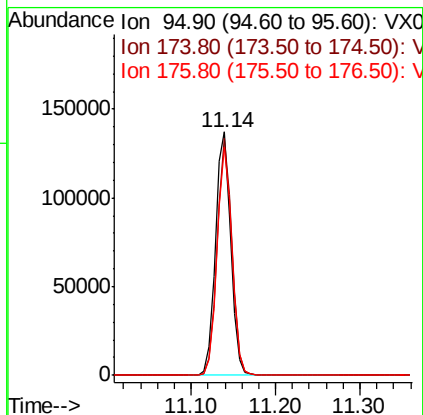
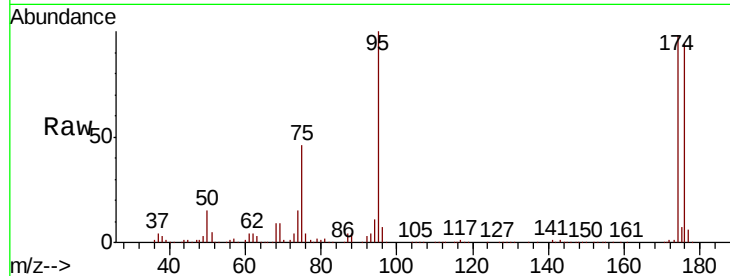




#62
4-Bromofluorobenzene
Concen: 44.884 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

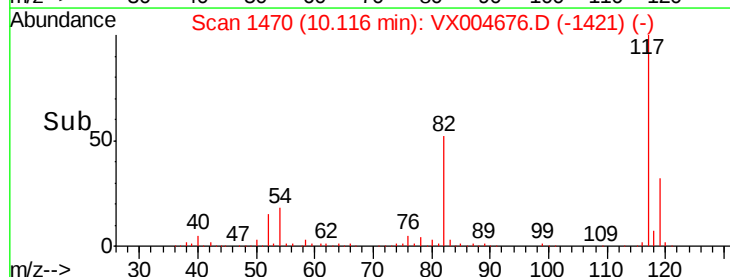
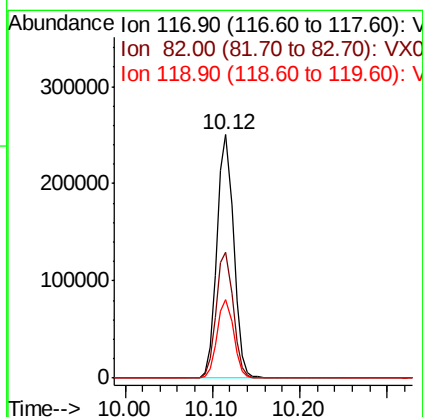
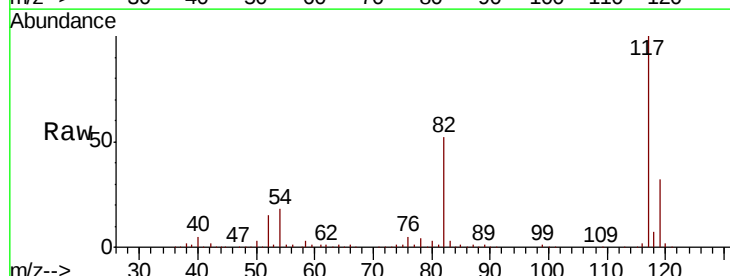
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW305I-20180911DL

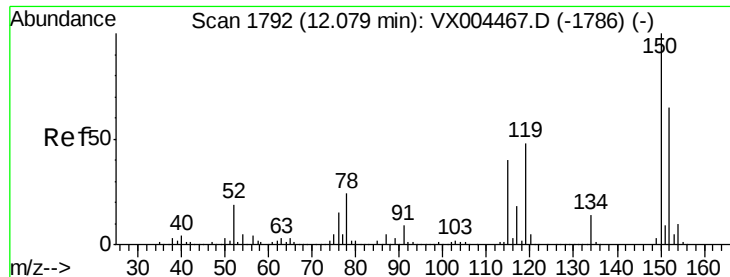
Tgt Ion: 95 Resp: 172391
Ion Ratio Lower Upper
95 100
174 94.9 0.0 185.2
176 92.0 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004676.D
Acq: 19 Sep 2018 00:16

Tgt Ion: 117 Resp: 330220
Ion Ratio Lower Upper
117 100
82 51.7 47.8 71.6
119 32.5 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW305I-20180911DL

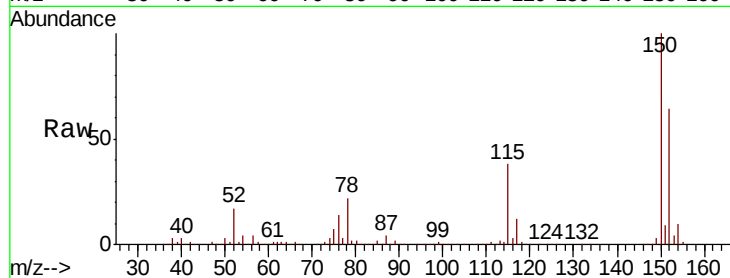
Tgt Ion:152 Resp: 202299

Ion Ratio Lower Upper

152 100

115 55.5 39.0 117.0

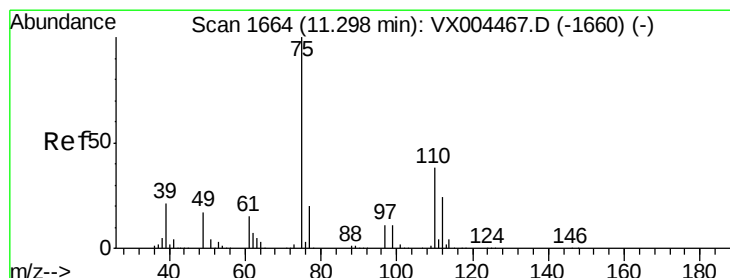
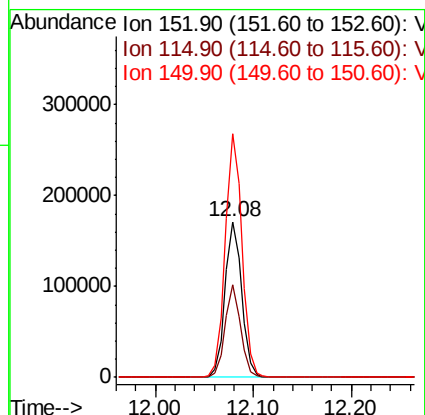
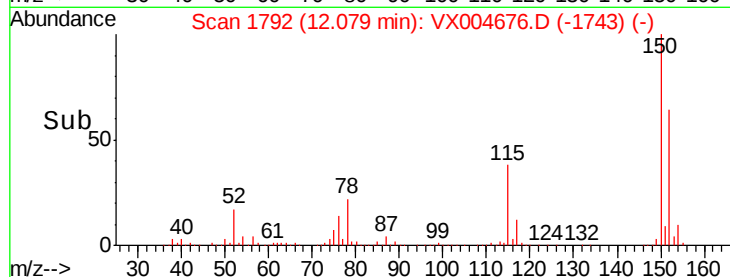
150 157.1 0.0 351.0



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: 19.594 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004676.D

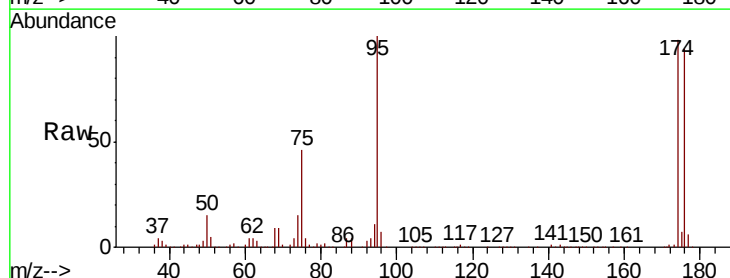
Acq: 19 Sep 2018 00:16

Tgt Ion: 75 Resp: 79750

Ion Ratio Lower Upper

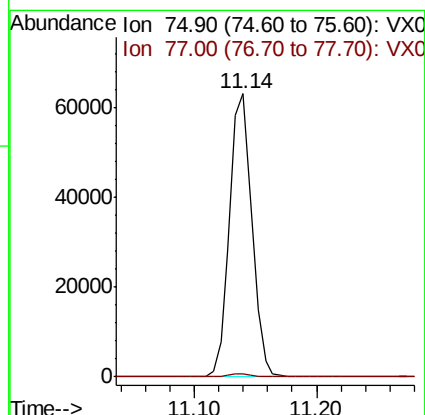
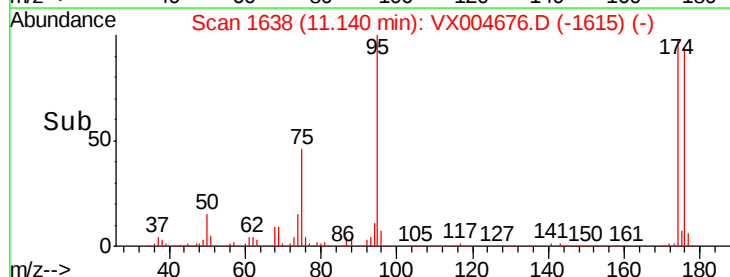
75 100

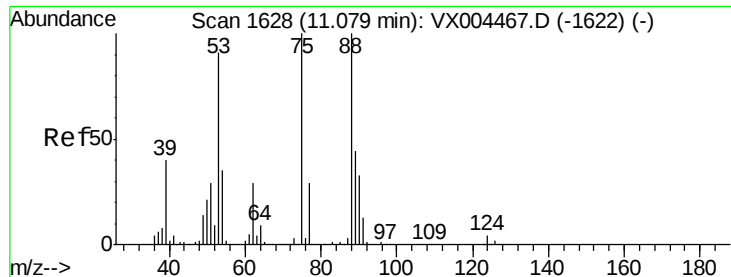
77 1.3 20.2 60.6#



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: 62.456 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004676.D

Acq: 19 Sep 2018 00:16

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW305I-20180911DL

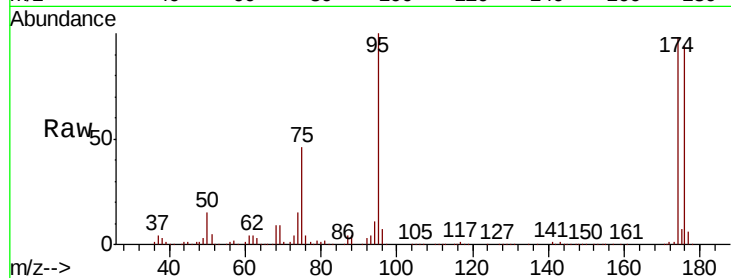
Tgt Ion: 75 Resp: 79750

Ion Ratio Lower Upper

75 100

53 0.1 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

