

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031519\
 Data File : VX008127.D
 Acq On : 16 Mar 2019 00:51
 Operator : JC/SP
 Sample : K1856-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW302D-20190311

Quant Time: Mar 16 02:11:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388099	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	369324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181592	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	129617	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
35) Dibromofluoromethane	5.51	113	125838	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
50) Toluene-d8	8.71	98	465149	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	11.13	95	166564	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	

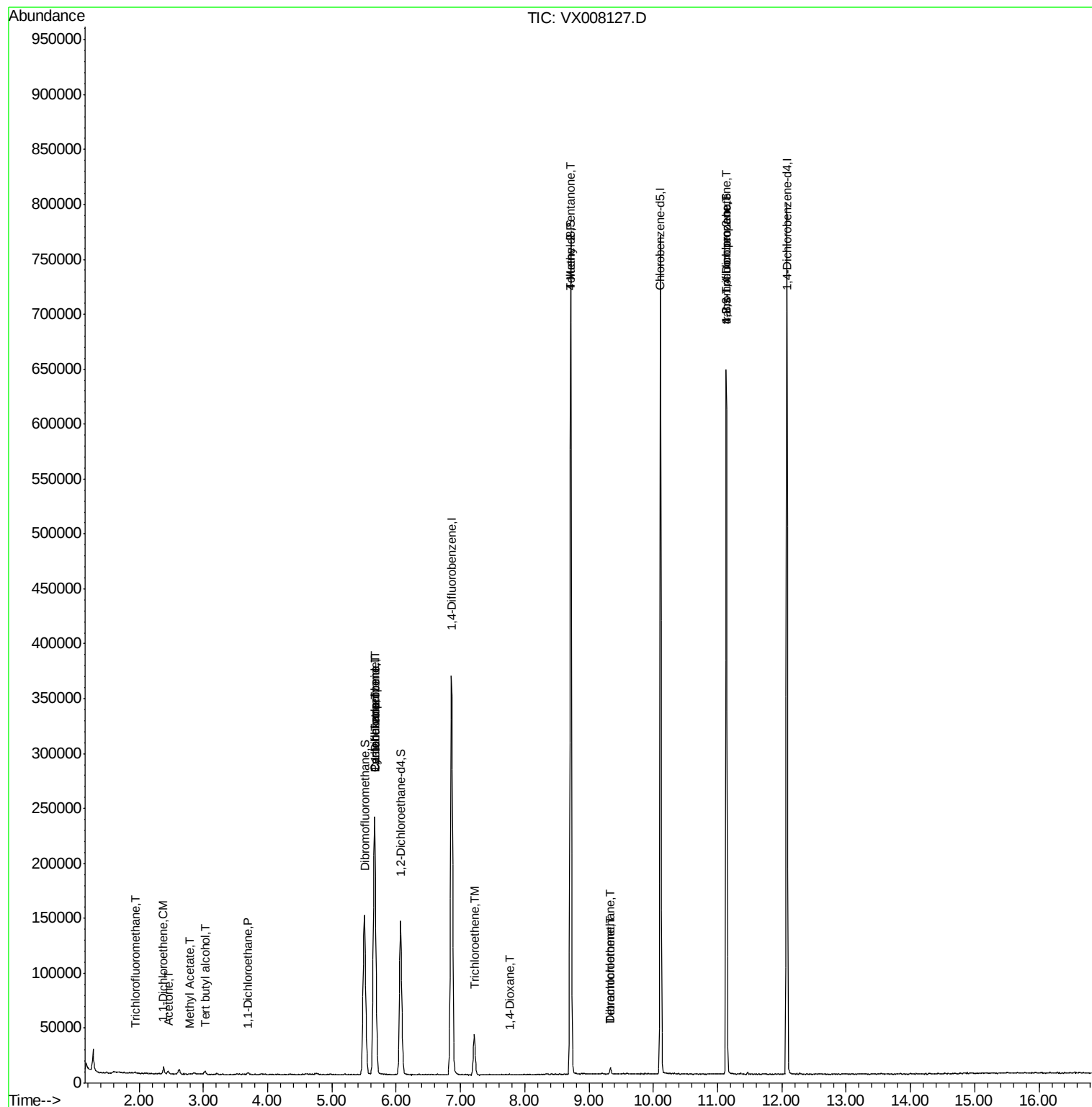
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	211	Below Cal	#	70
6) Chloroethane	1.70	64	257	Below Cal	#	43
7) Trichlorofluoromethane	1.94	101	677	0.244	ug/l	96
11) Tert butyl alcohol	3.03	59	1501	3.002	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	1750	0.894	ug/l	90
16) Acetone	2.45	43	2561	2.096	ug/l	97
18) Methyl Acetate	2.79	43	661	0.250	ug/l #	85
24) 1,1-Dichloroethane	3.69	63	1488	0.383	ug/l #	83
31) Cyclohexane	5.67	56	3653	0.987	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14746	4.619	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21205	6.900	ug/l #	16
44) Trichloroethene	7.21	130	15871	5.622	ug/l	96
49) 1,4-Dioxane	7.76	88	94	1.510	ug/l #	77
51) 4-Methyl-2-Pentanone	8.71	43	1696	0.466	ug/l #	1
60) Dibromochloromethane	9.33	129	1010	0.387	ug/l #	11
64) Tetrachloroethene	9.33	164	1157	0.387	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	75423	23.915	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	75423	68.055	ug/l #	11

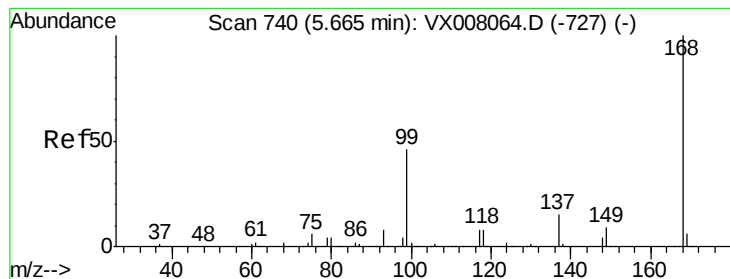
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

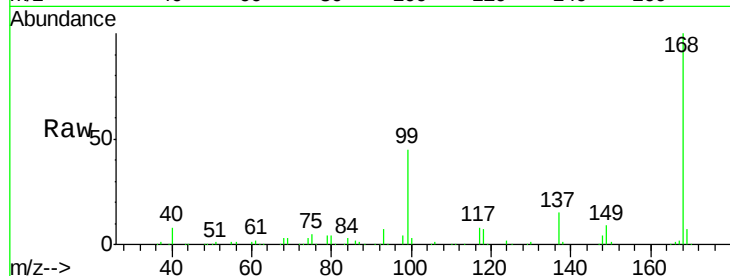
BPS1-TT-MW302D-20190311

Tot Ion:168 Resp: 256598

Ion Ratio Lower Upper

168 100

99 45.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

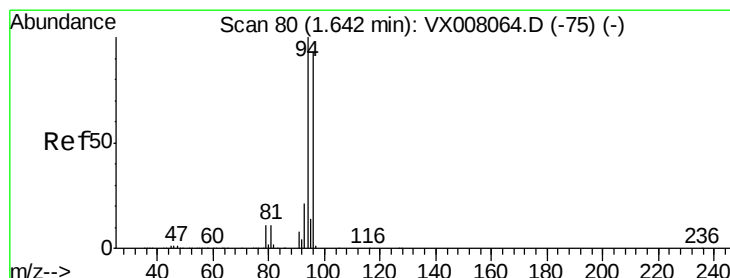
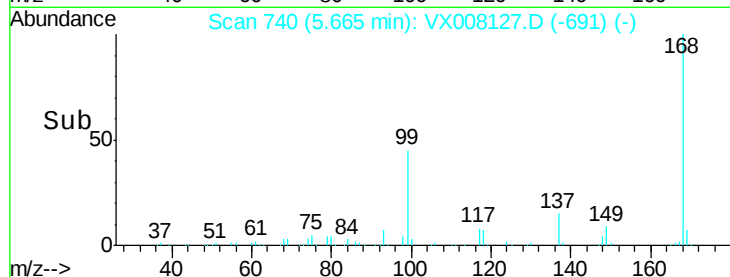
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX008127.D

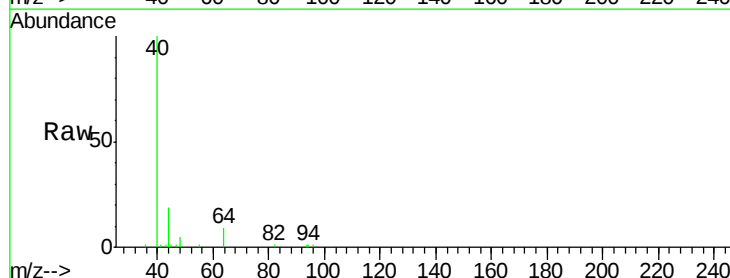
Acq: 16 Mar 2019 00:51

Tgt Ion: 94 Resp: 211

Ion Ratio Lower Upper

94 100

96 65.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

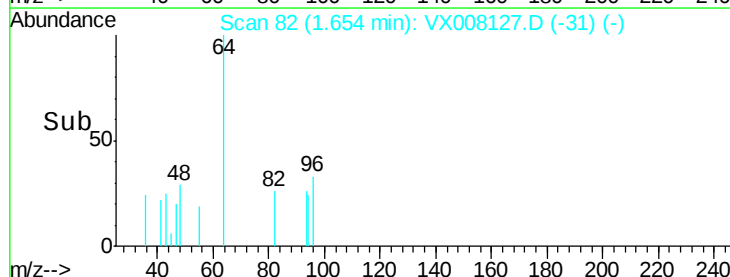
150

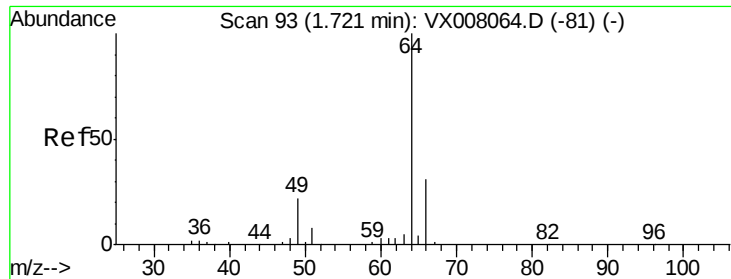
100

50

0

Time--> 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 90

Delta R.T. -0.02 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

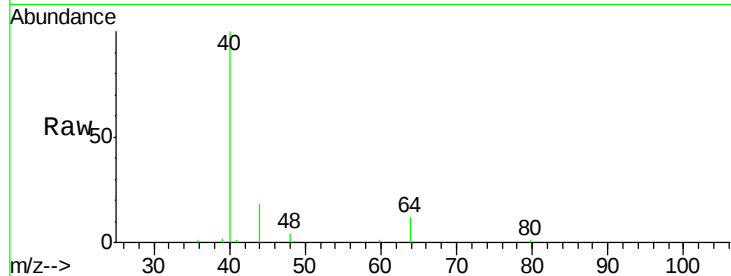
BPS1-TT-MW302D-20190311

Tot Ion: 64 Resp: 257

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

800

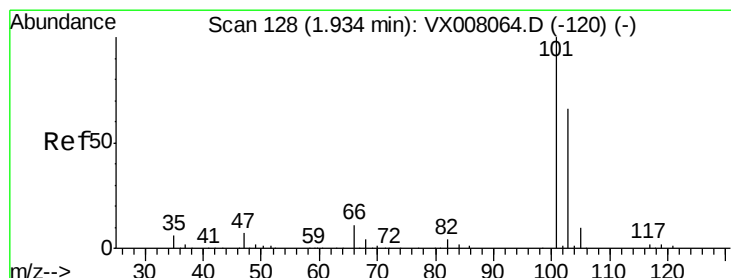
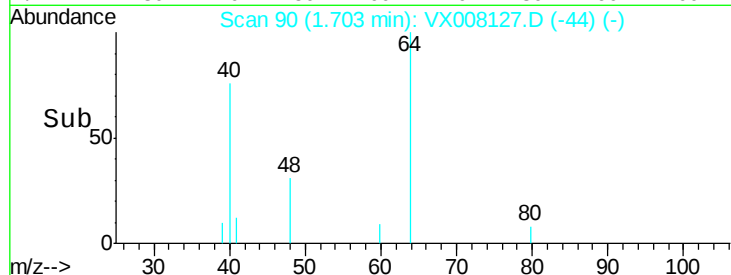
600

400

200

0

Time-->



#7

Trichlorofluoromethane

Concen: 0.244 ug/l

RT: 1.94 min Scan# 129

Delta R.T. 0.01 min

Lab File: VX008127.D

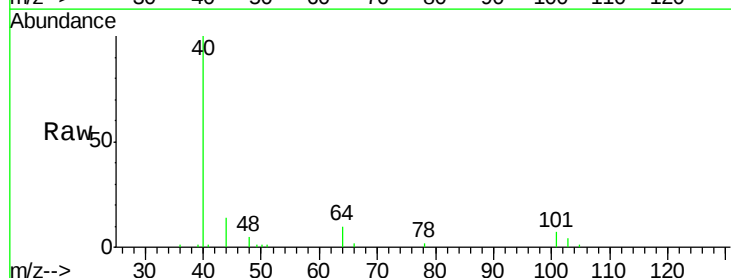
Acq: 16 Mar 2019 00:51

Tgt Ion: 101 Resp: 677

Ion Ratio Lower Upper

101 100

103 59.6 50.4 75.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

1.94

500

400

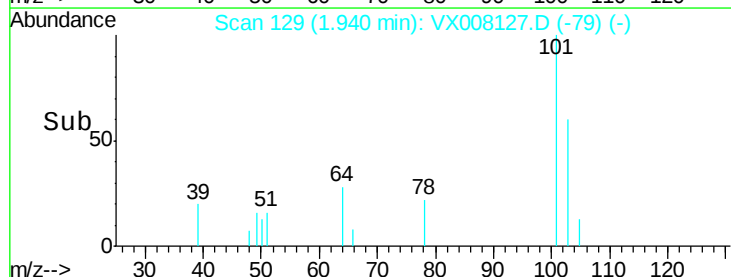
300

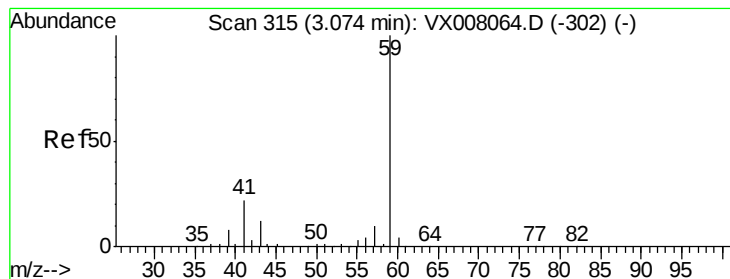
200

100

0

Time-->



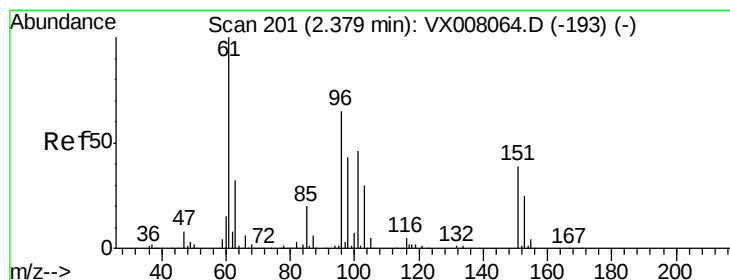
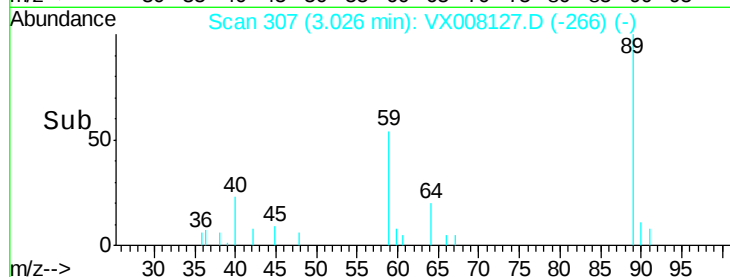
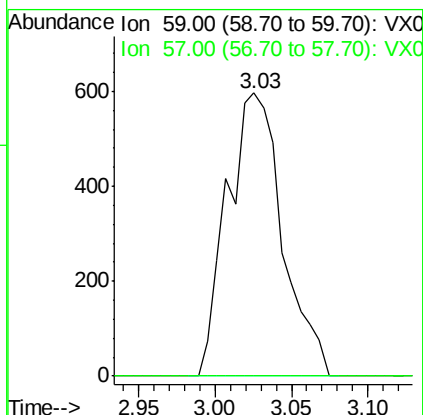
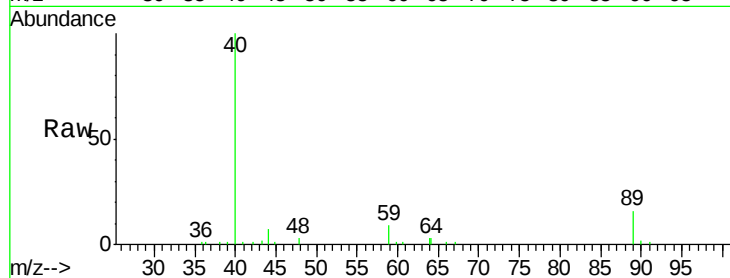


#11

Tert butyl alcohol
Concen: 3.002 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW302D-20190311

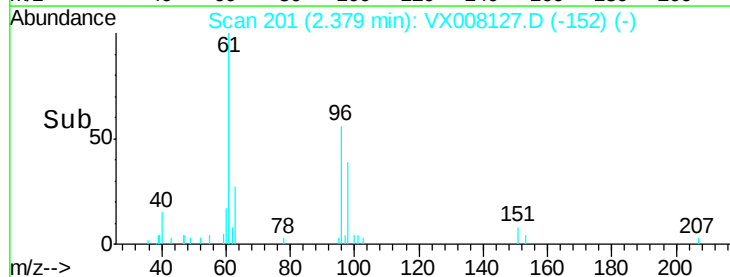
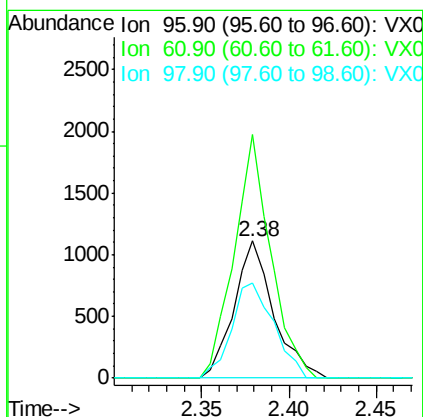
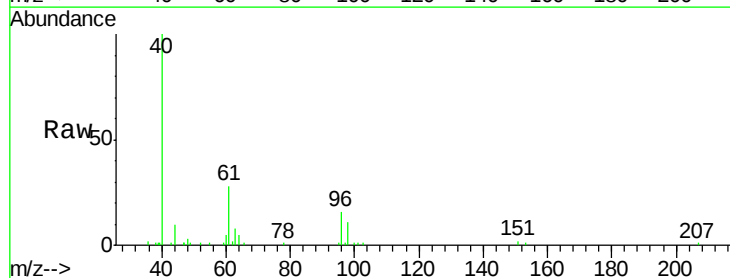
Tot Ion: 59 Resp: 1501
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

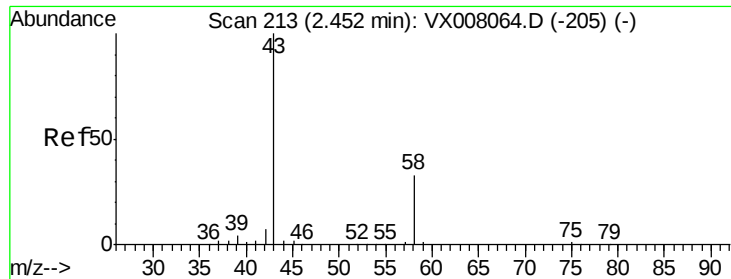


#12

1,1-Dichloroethene
Concen: 0.894 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.00 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

Tgt Ion: 96 Resp: 1750
Ion Ratio Lower Upper
96 100
61 177.6 129.8 194.6
98 69.3 51.0 76.6

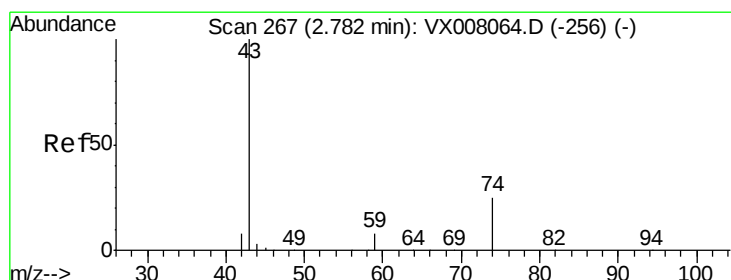
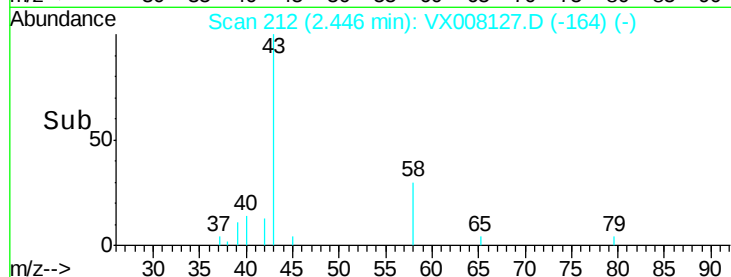
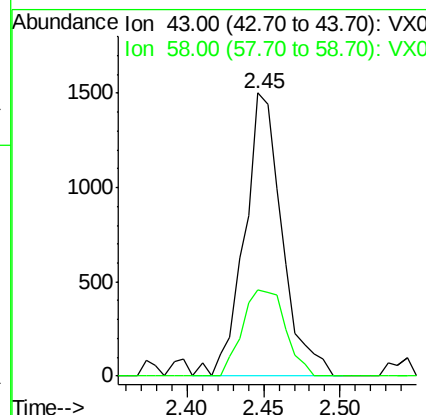
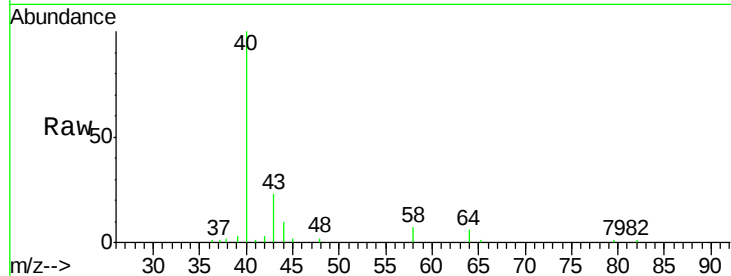




#16
Acetone
Concen: 2.096 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.01 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

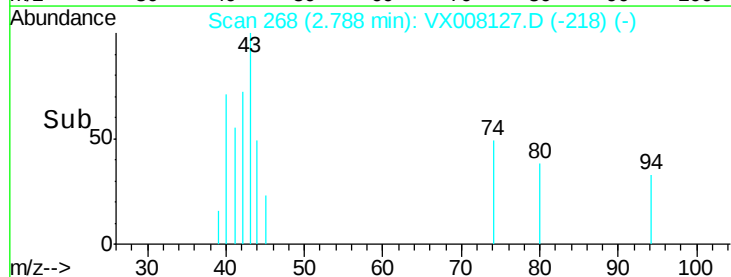
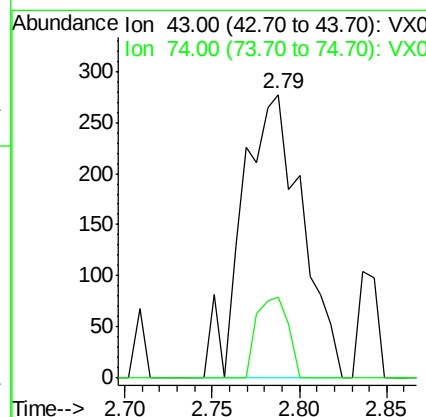
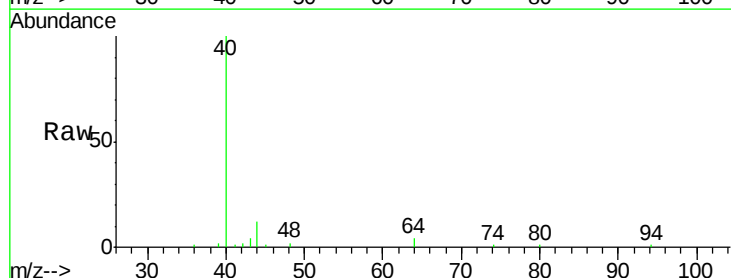
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW302D-20190311

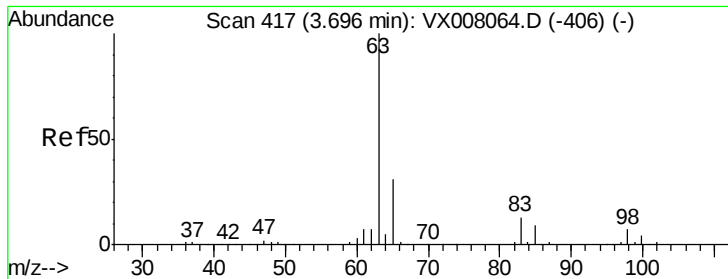
Tot Ion: 43 Resp: 2561
Ion Ratio Lower Upper
43 100
58 30.3 25.5 38.3



#18
Methyl Acetate
Concen: 0.250 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

Tgt Ion: 43 Resp: 661
Ion Ratio Lower Upper
43 100
74 14.8 17.8 26.6#





#24

1,1-Dichloroethane

Concen: 0.383 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20190311

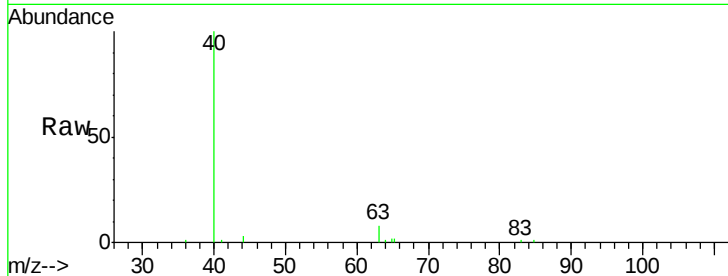
Tot Ion: 63 Resp: 1488

Ion Ratio Lower Upper

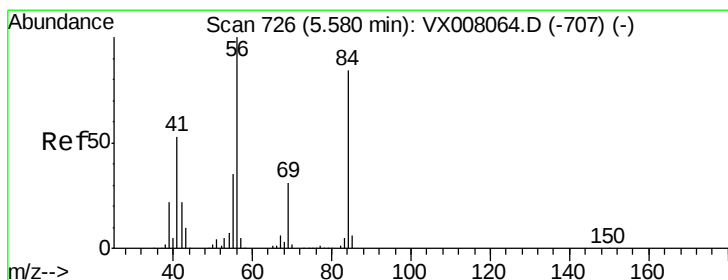
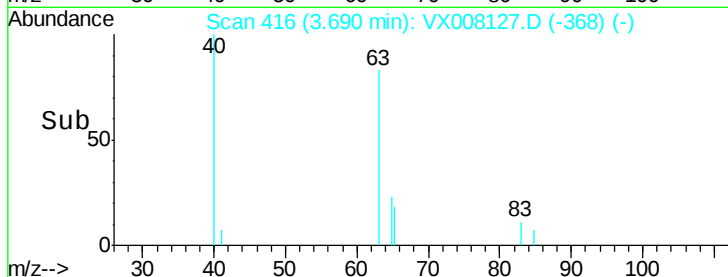
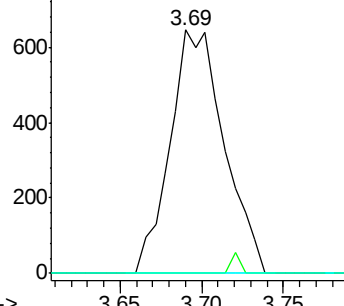
63 100

98 0.0 3.3 9.8#

100 0.0 2.3 6.8#



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



#31

Cyclohexane

Concen: 0.987 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.09 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

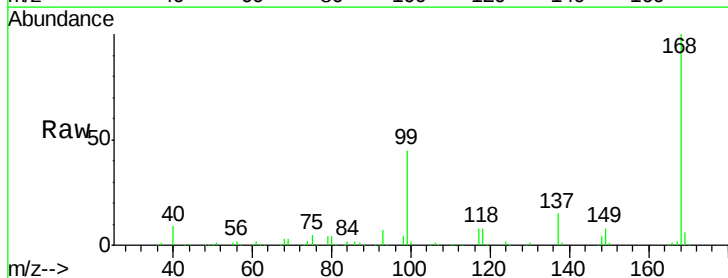
Tgt Ion: 56 Resp: 3653

Ion Ratio Lower Upper

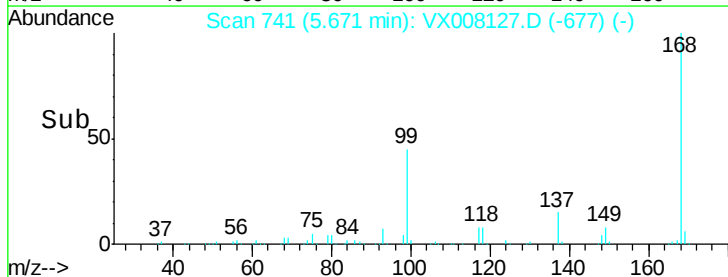
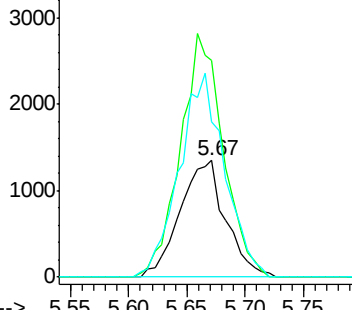
56 100

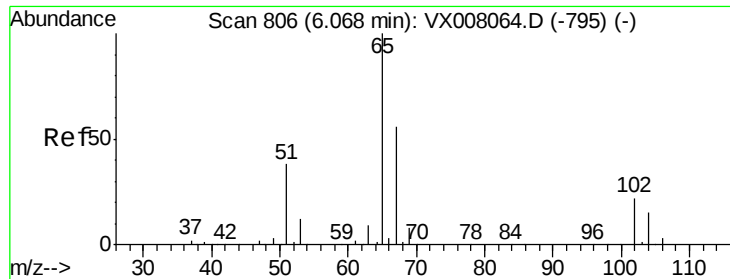
69 185.6 24.0 36.0#

84 133.2 65.3 97.9#



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: 50.076 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

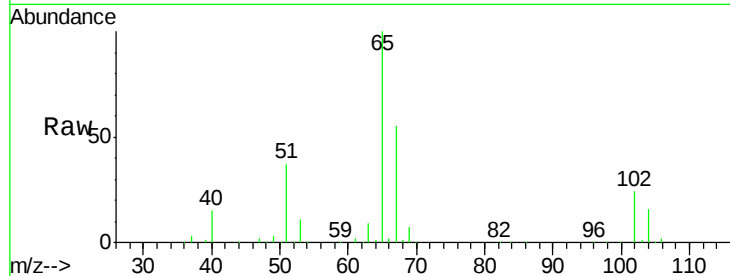
BPS1-TT-MW302D-20190311

Tot Ion: 65 Resp: 129617

Ion Ratio Lower Upper

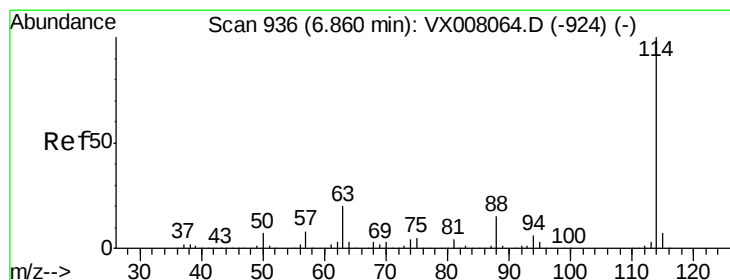
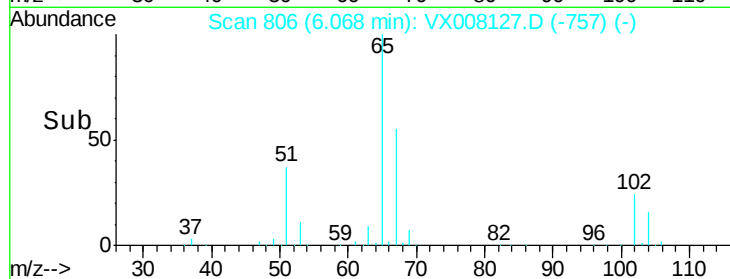
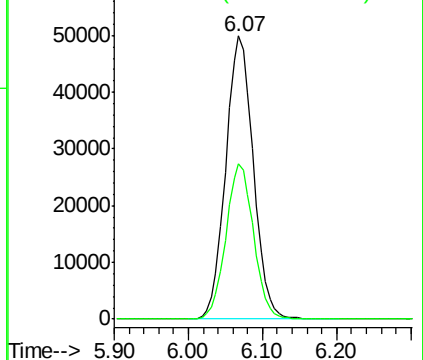
65 100

67 54.5 0.0 110.0



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: VX008127.D

Acq: 16 Mar 2019 00:51

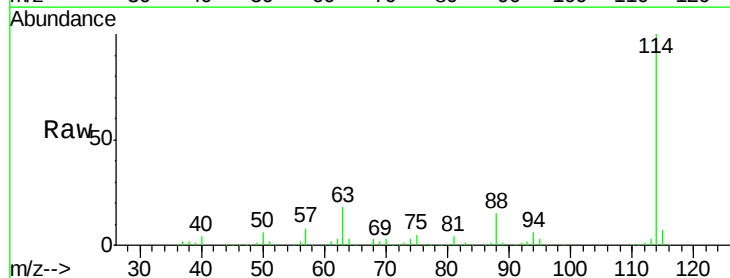
Tgt Ion: 114 Resp: 388099

Ion Ratio Lower Upper

114 100

63 17.9 0.0 39.8

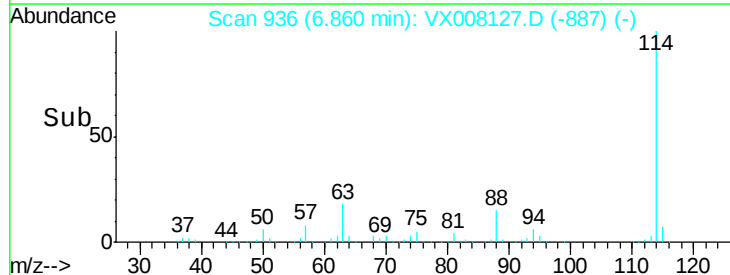
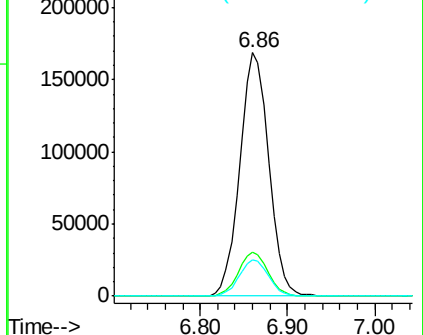
88 14.8 0.0 31.4

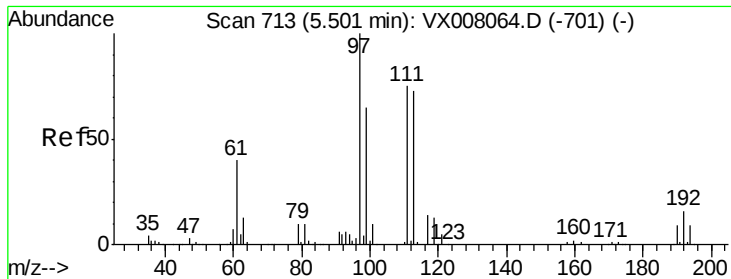


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

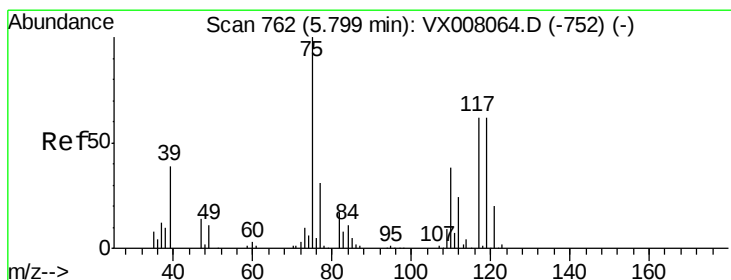
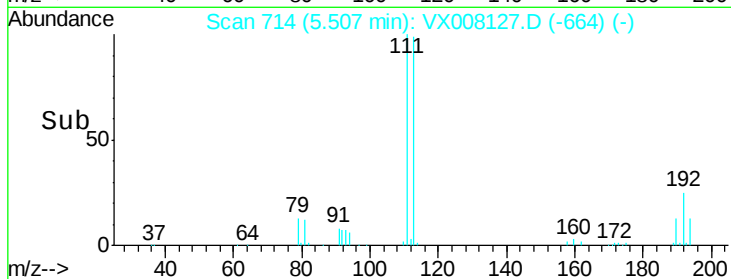
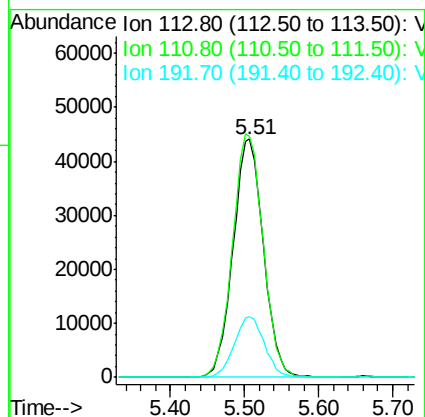
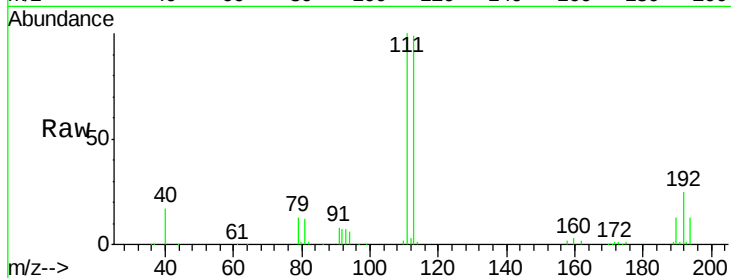




#35
 Dibromofluoromethane
 Concen: 51.131 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008127.D
 Acq: 16 Mar 2019 00:51

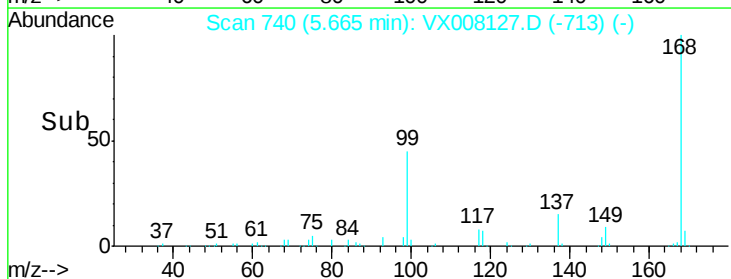
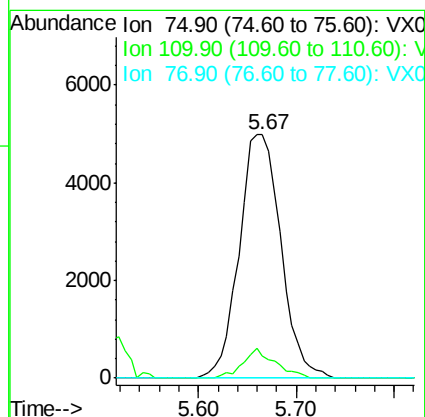
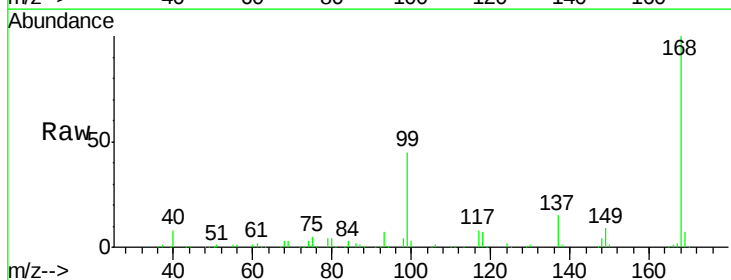
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW302D-20190311

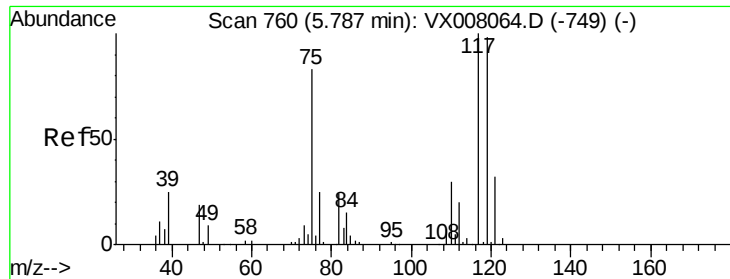
Tot Ion:113 Resp: 125838
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.4 122.0
 192 25.4 19.4 29.0



#36
 1,1-Dichloropropene
 Concen: 4.619 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008127.D
 Acq: 16 Mar 2019 00:51

Tgt Ion: 75 Resp: 14746
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.4 55.0#
 77 0.0 25.0 37.4#

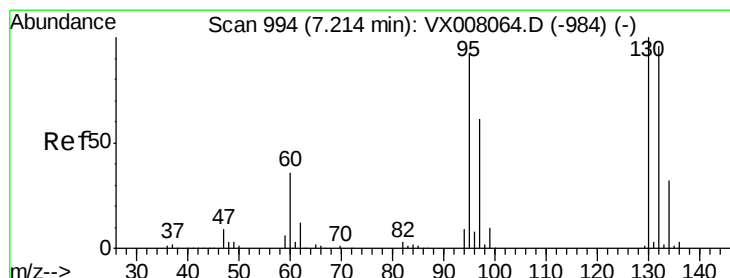
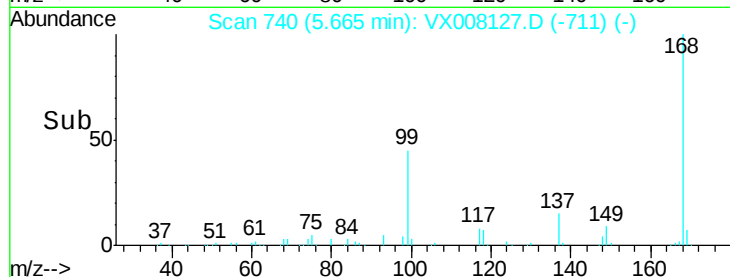
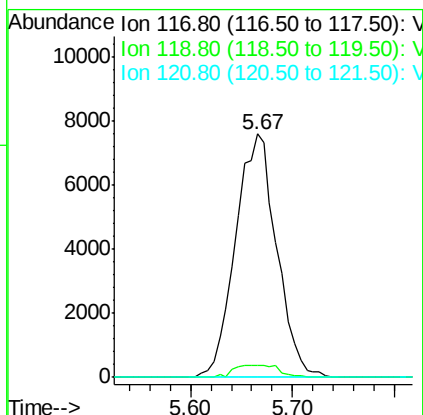
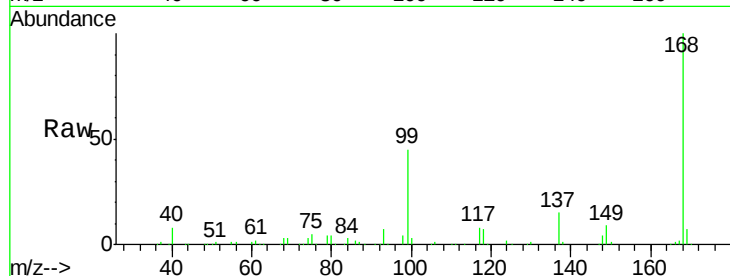




#38
Carbon Tetrachloride
Concen: 6.900 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

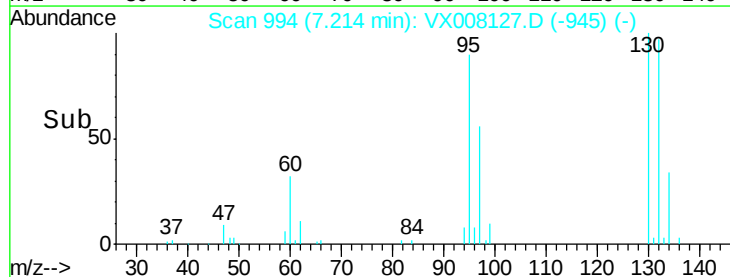
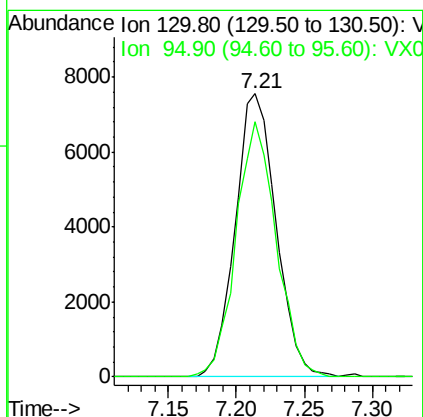
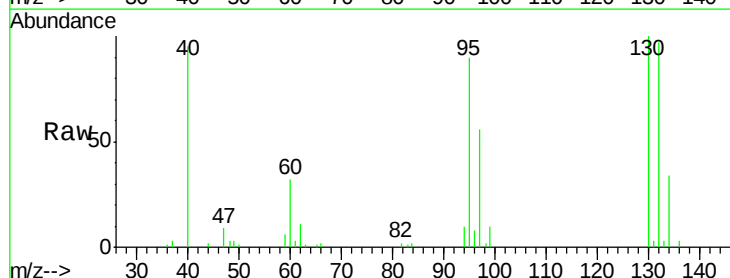
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW302D-20190311

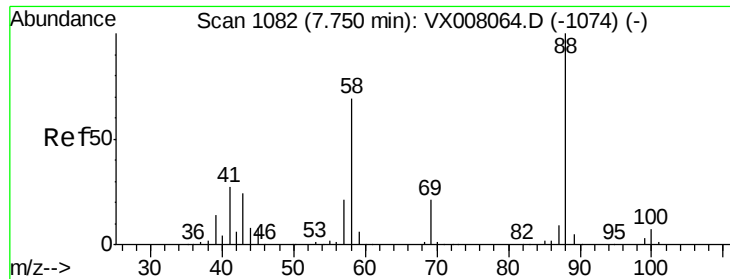
Tot Ion:117 Resp: 21205
Ion Ratio Lower Upper
117 100
119 5.1 76.2 114.2#
121 0.0 24.6 36.8#



#44
Trichloroethene
Concen: 5.622 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.00 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

Tgt Ion:130 Resp: 15871
Ion Ratio Lower Upper
130 100
95 90.4 0.0 188.0





#49

1,4-Dioxane

Concen: 1.510 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20190311

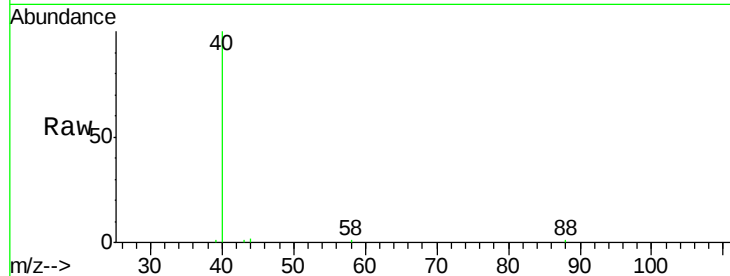
Tot Ion: 88 Resp: 94

Ion Ratio Lower Upper

88 100

43 26.6 25.1 37.7

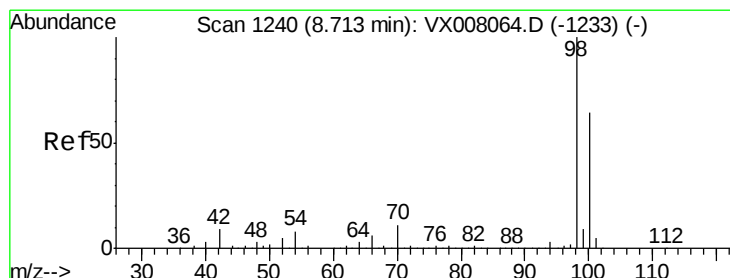
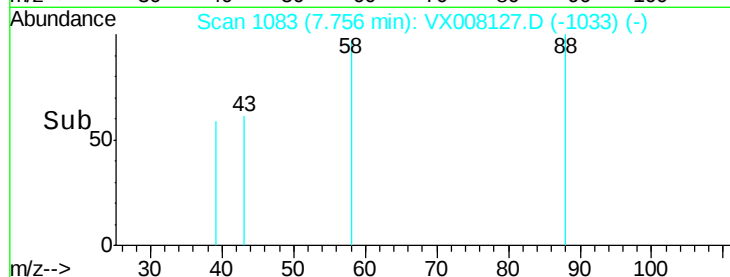
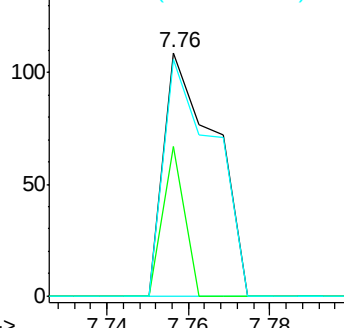
58 96.8 57.8 86.6#



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: 49.694 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008127.D

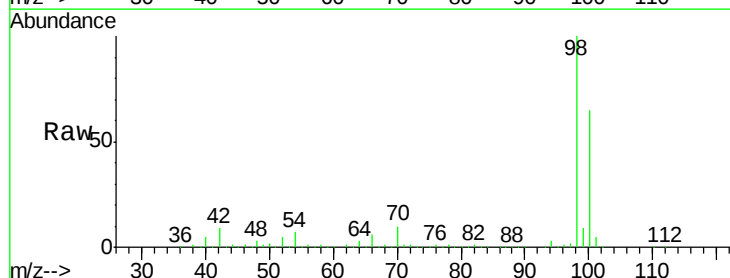
Acq: 16 Mar 2019 00:51

Tgt Ion: 98 Resp: 465149

Ion Ratio Lower Upper

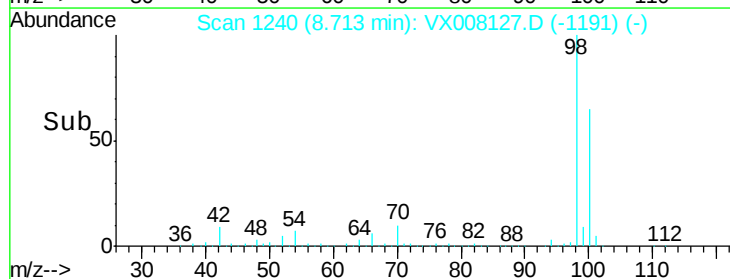
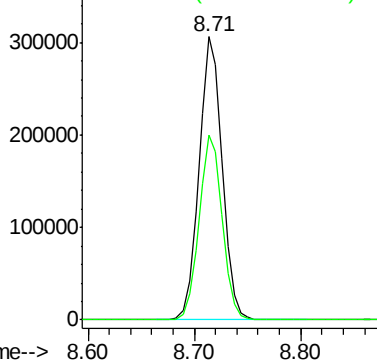
98 100

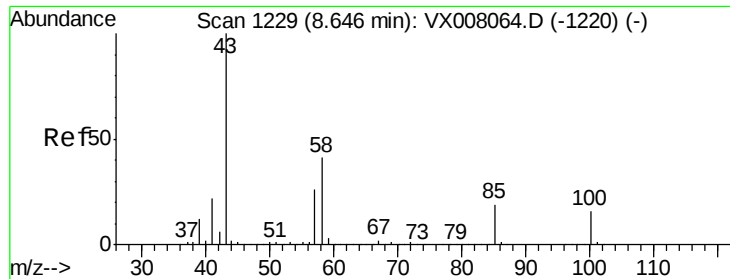
100 65.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.466 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

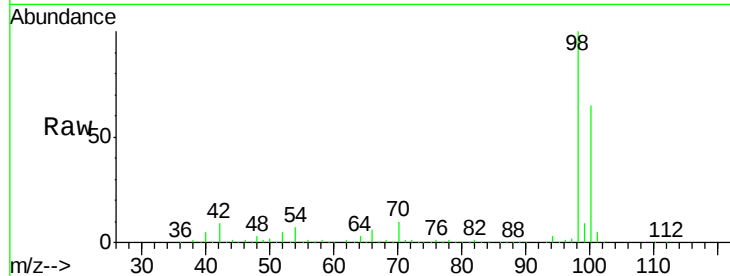
BPS1-TT-MW302D-20190311

Tot Ion: 43 Resp: 1696

Ion Ratio Lower Upper

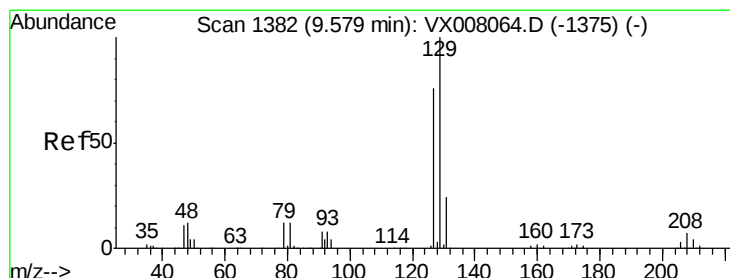
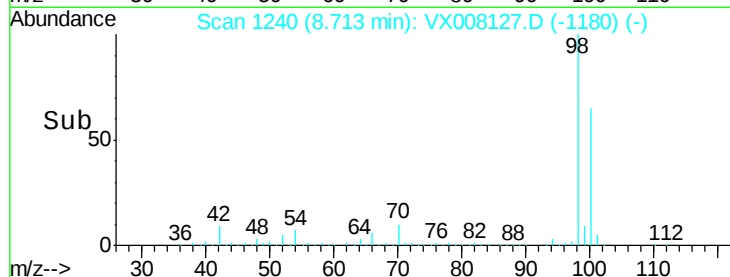
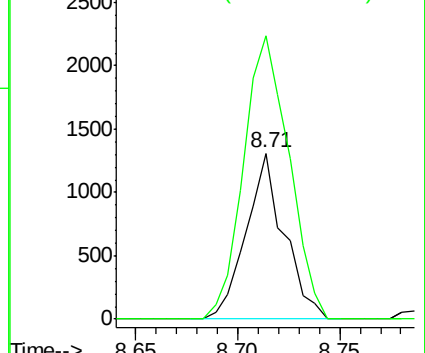
43 100

58 203.4 31.3 46.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 0.387 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX008127.D

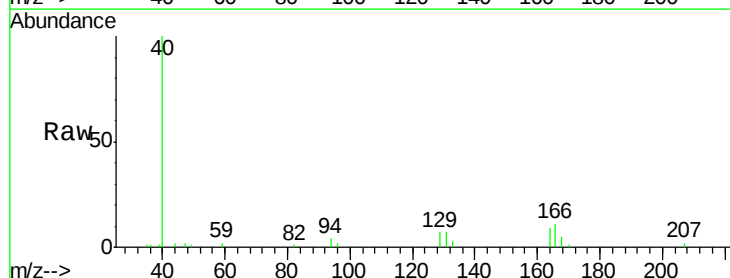
Acq: 16 Mar 2019 00:51

Tgt Ion: 129 Resp: 1010

Ion Ratio Lower Upper

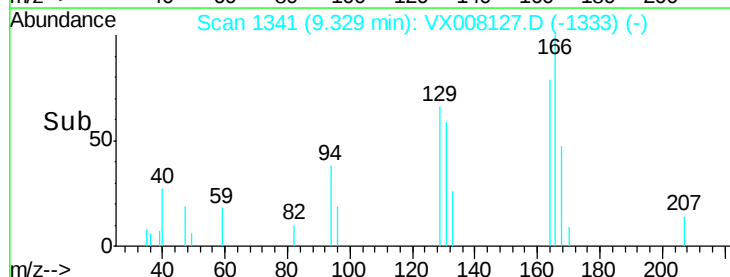
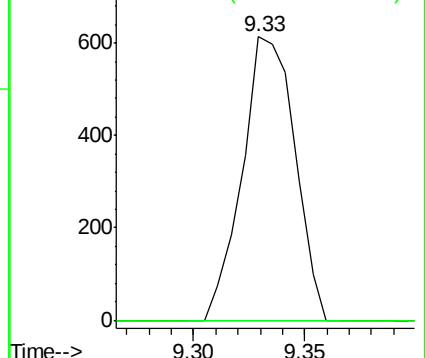
129 100

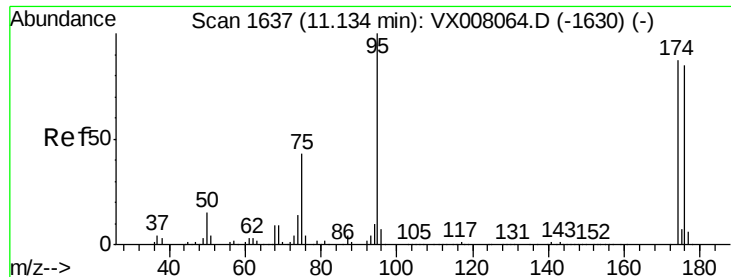
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

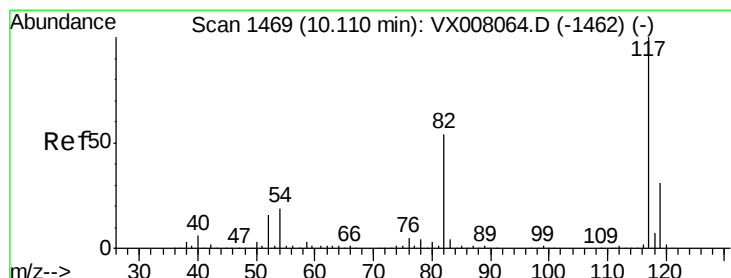
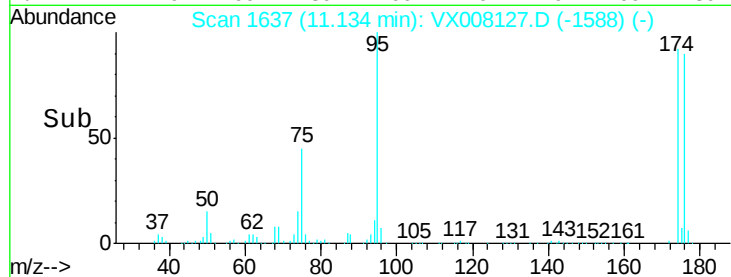
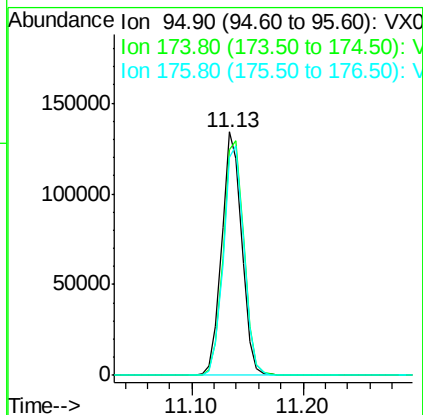
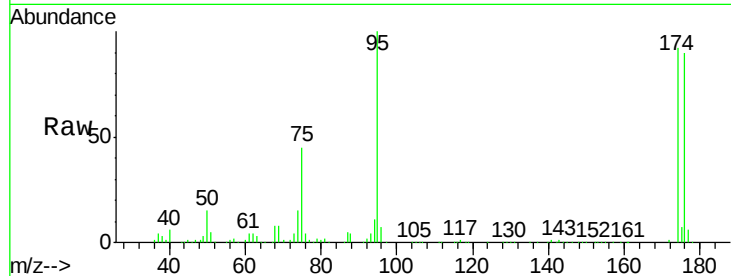




#62
4-Bromofluorobenzene
Concen: 49.673 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

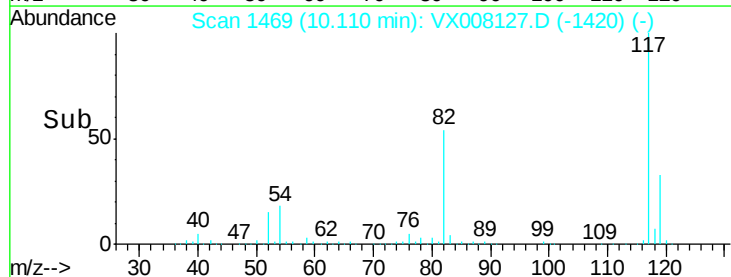
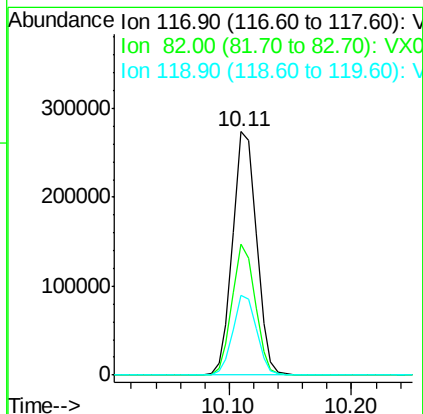
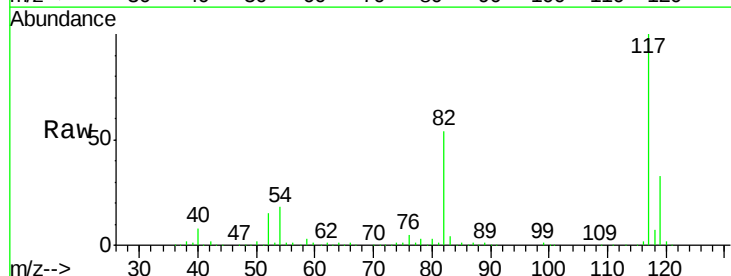
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW302D-20190311

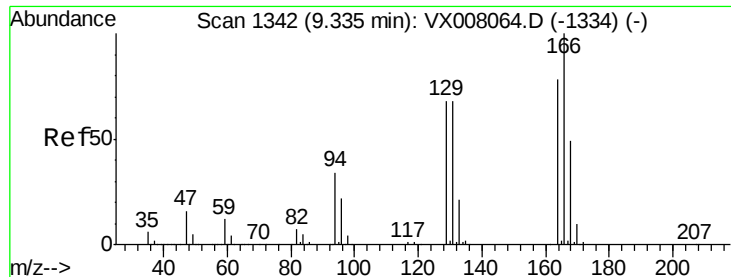
Tot Ion: 95 Resp: 166564
Ion Ratio Lower Upper
95 100
174 99.7 0.0 182.8
176 96.4 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008127.D
Acq: 16 Mar 2019 00:51

Tgt Ion: 117 Resp: 369324
Ion Ratio Lower Upper
117 100
82 53.6 44.3 66.5
119 32.6 25.3 37.9





#64

Tetrachloroethene

Concen: 0.387 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.01 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW302D-20190311

Tot Ion:164 Resp: 1157

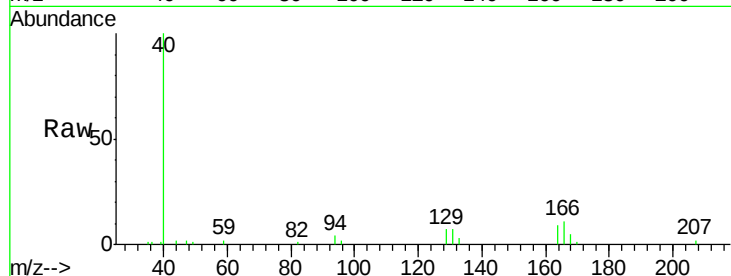
Ion Ratio Lower Upper

164 100

166 125.9 103.4 155.0

129 83.5 72.2 108.4

131 74.4 69.4 104.2

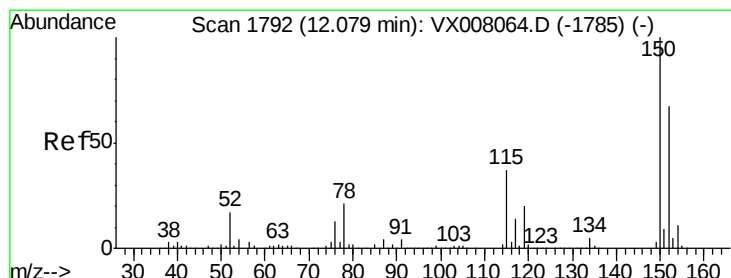
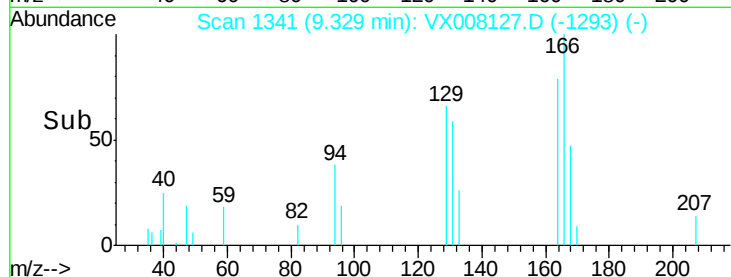
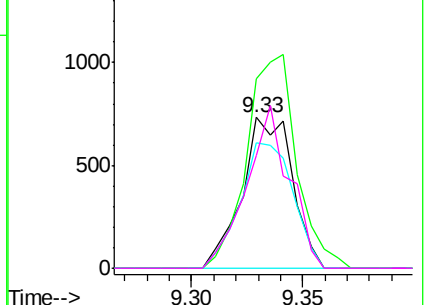


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX008127.D

Acq: 16 Mar 2019 00:51

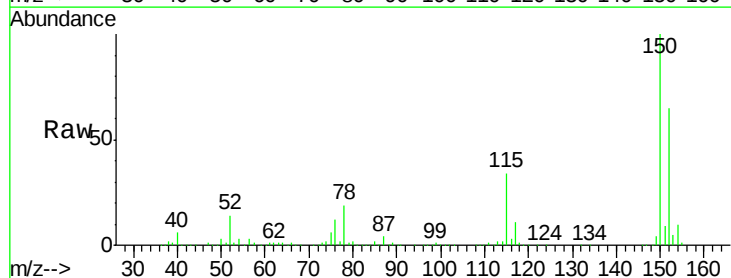
Tgt Ion:152 Resp: 181592

Ion Ratio Lower Upper

152 100

115 53.1 38.6 115.7

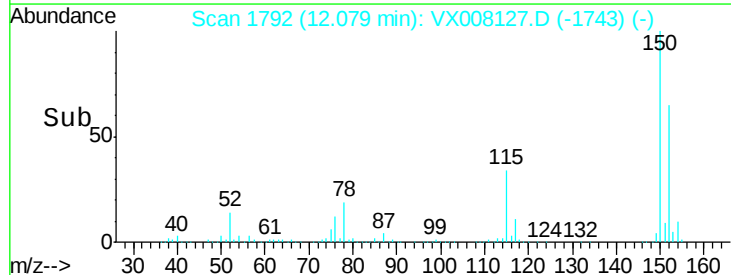
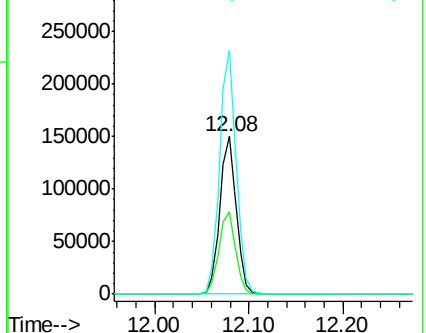
150 155.5 0.0 348.4

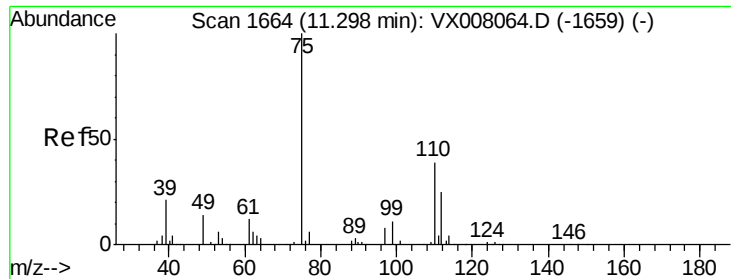


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.915 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

Instrument :

MSVOA_X

ClientSampleId :

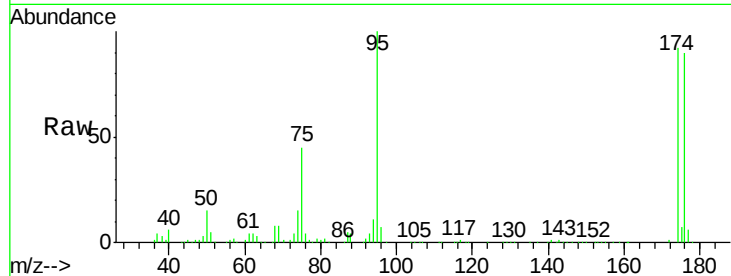
BPS1-TT-MW302D-20190311

Tot Ion: 75 Resp: 75423

Ion Ratio Lower Upper

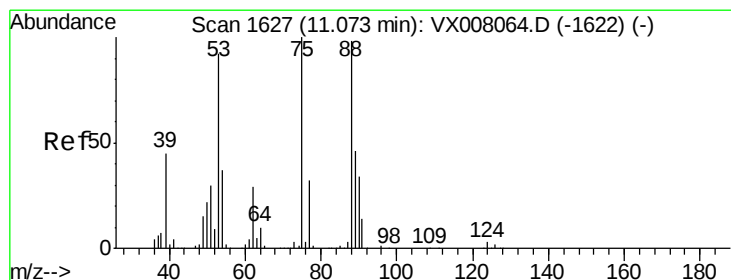
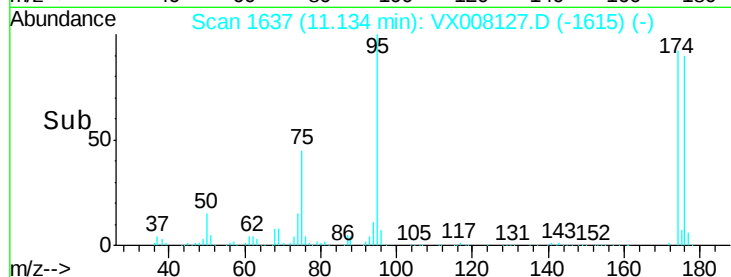
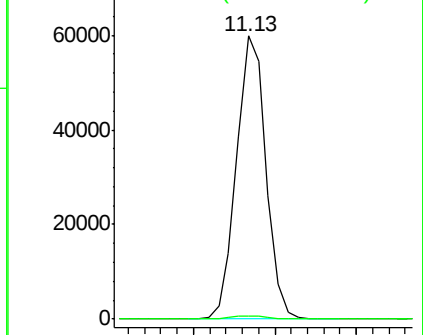
75 100

77 1.3 18.9 56.7#



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: 68.055 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008127.D

Acq: 16 Mar 2019 00:51

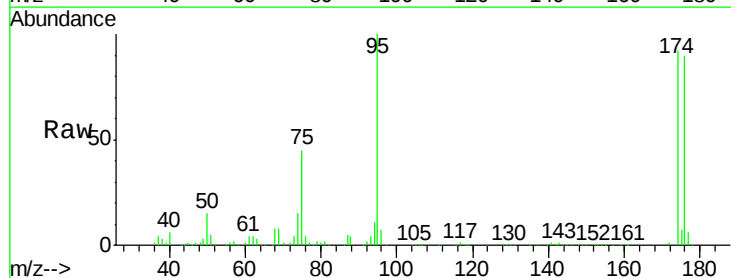
Tgt Ion: 75 Resp: 75423

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



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

