

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101118\
 Data File : VX005261.D
 Acq On : 11 Oct 2018 18:39
 Operator : JC/MD
 Sample : J5393-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB04-20181008

Quant Time: Oct 12 07:10:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	171279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	250252	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	248783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134645	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	128915	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
35) Dibromofluoromethane	5.50	113	112965	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	
50) Toluene-d8	8.72	98	362225	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	11.14	95	126361	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	

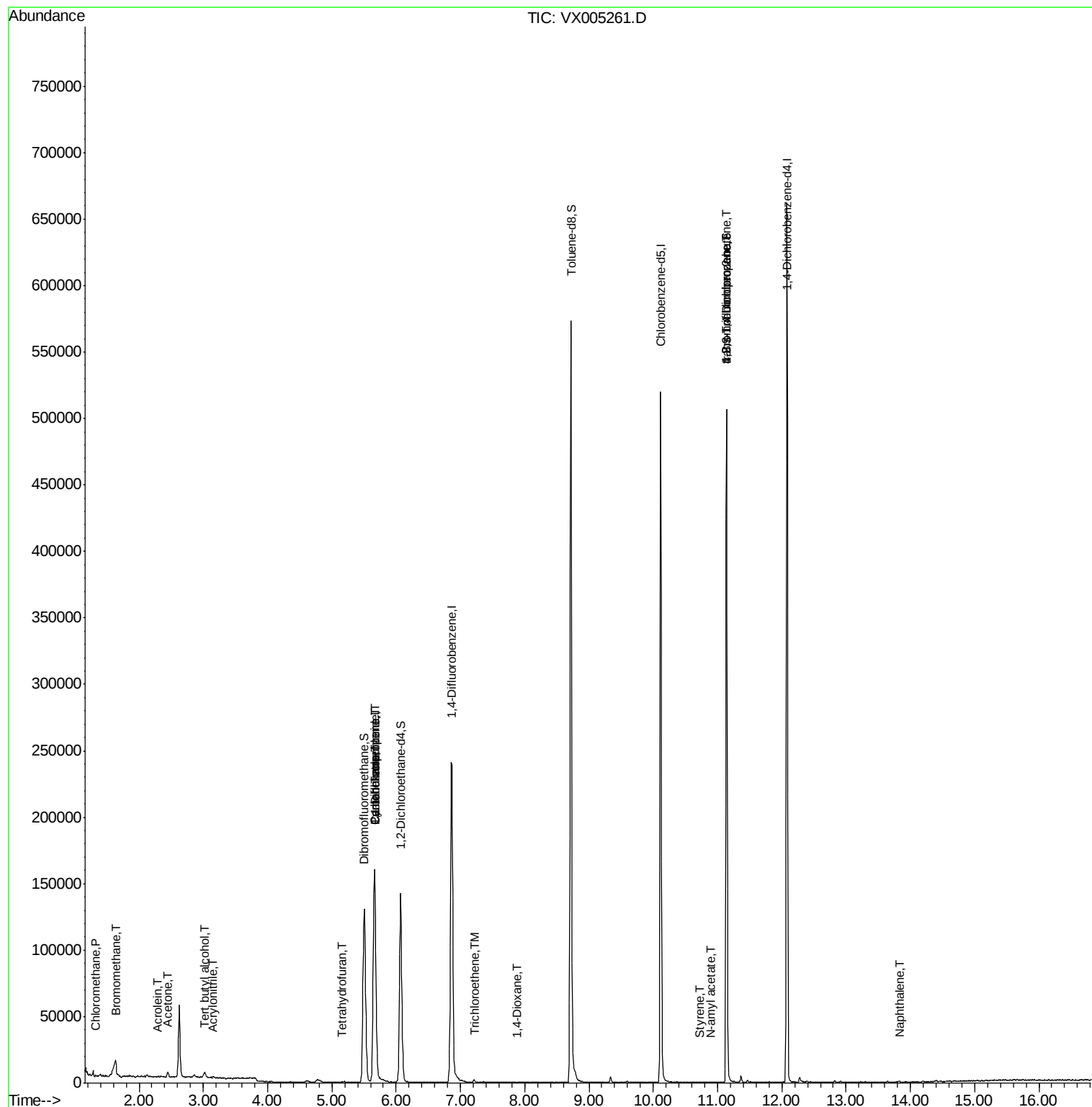
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	658	0.232	ug/l	93
5) Bromomethane	1.64	94	731	0.464	ug/l	86
6) Chloroethane	1.76	64	751	Below Cal	#	69
11) Tert butyl alcohol	3.02	59	2610	3.815	ug/l #	84
13) Acrolein	2.29	56	121	0.249	ug/l #	1
15) Acrylonitrile	3.14	53	400	0.266	ug/l #	21
16) Acetone	2.45	43	4210	2.947	ug/l	97
20) Methylene Chloride	2.85	84	884	Below Cal	#	80
29) Tetrahydrofuran	5.16	42	287	0.219	ug/l #	46
31) Cyclohexane	5.67	56	3194	1.026	ug/l #	4
36) 1,1-Dichloropropene	5.67	75	11444	3.955	ug/l #	47
38) Carbon Tetrachloride	5.66	117	14850	4.882	ug/l #	17
44) Trichloroethene	7.21	130	650	0.292	ug/l	90
49) 1,4-Dioxane	7.88	88	20	0.320	ug/l #	5
70) Styrene	10.72	104	46	2.147	ug/l #	25
74) N-amyl acetate	10.89	43	19	1.752	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	62596	20.742	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	187	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	62596	56.309	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	236	Below Cal	#	57
95) Naphthalene	13.83	128	309	0.747	ug/l #	69

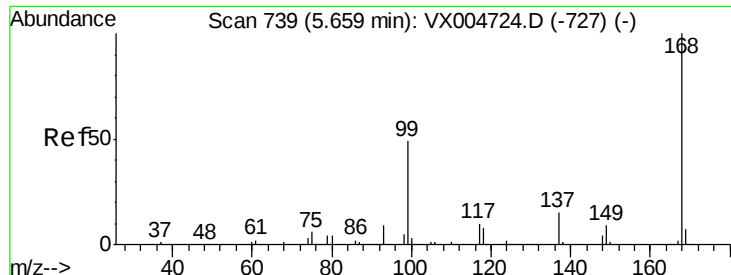
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

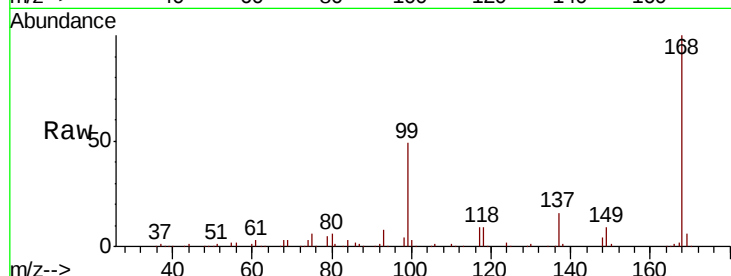
BP-TT-TB04-20181008

Tot Ion:168 Resp: 171279

Ion Ratio Lower Upper

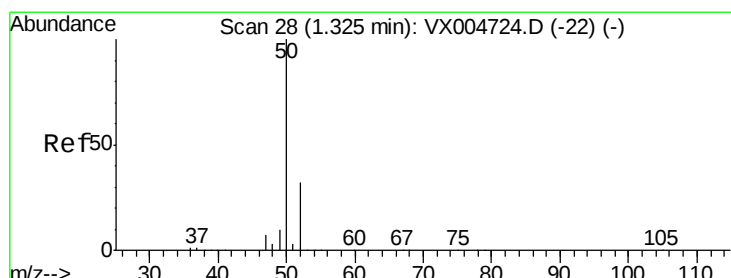
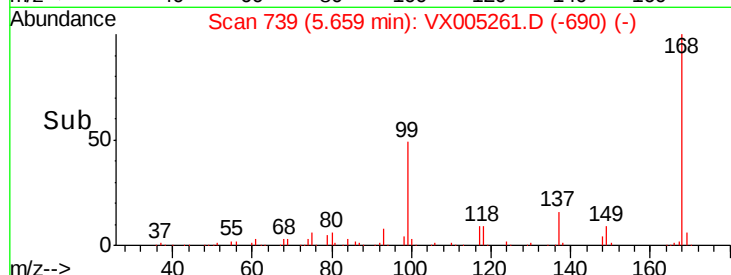
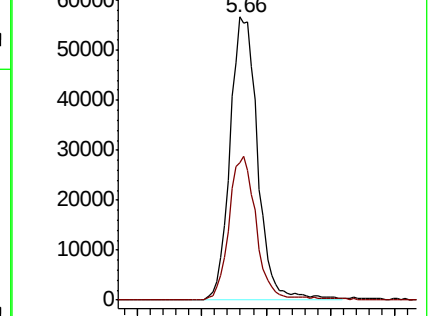
168 100

99 48.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.232 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005261.D

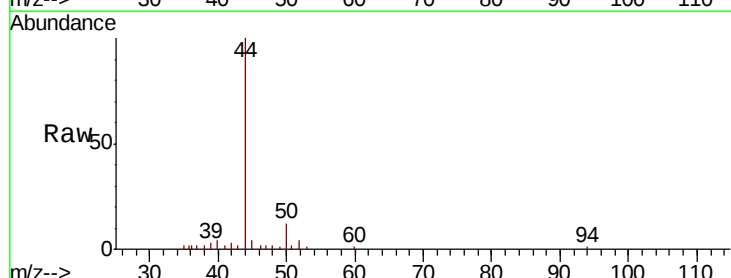
Acq: 11 Oct 2018 18:39

Tgt Ion: 50 Resp: 658

Ion Ratio Lower Upper

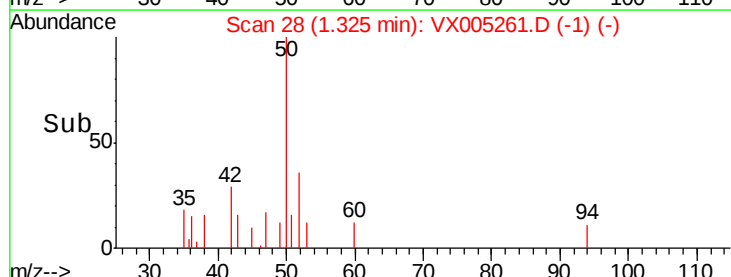
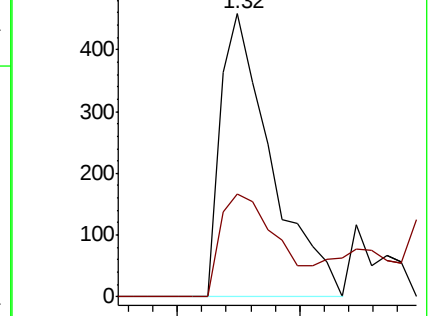
50 100

52 36.2 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.464 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

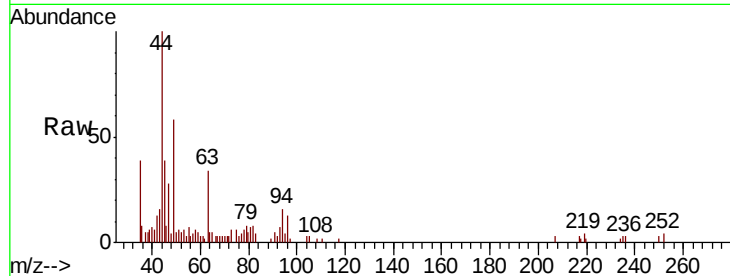
BP-TT-TB04-20181008

Tot Ion: 94 Resp: 731

Ion Ratio Lower Upper

94 100

96 85.8 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

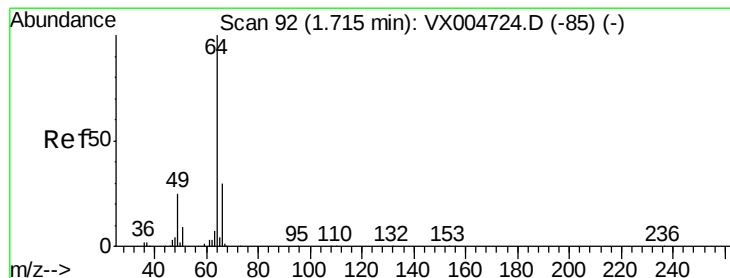
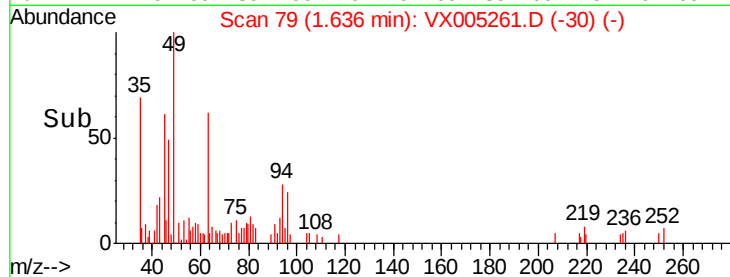
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX005261.D

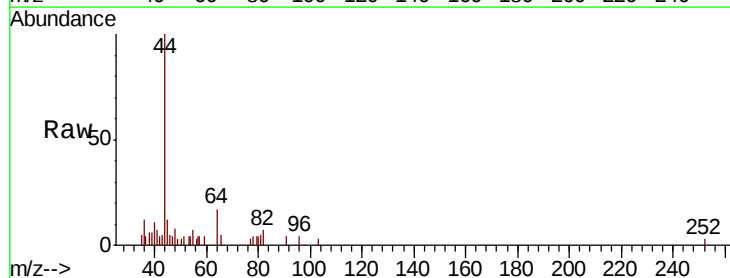
Acq: 11 Oct 2018 18:39

Tgt Ion: 64 Resp: 751

Ion Ratio Lower Upper

64 100

66 12.8 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

500

400

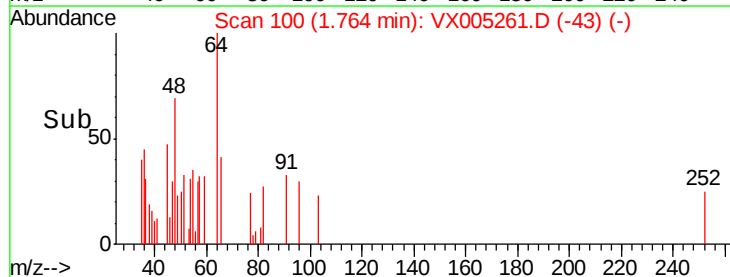
300

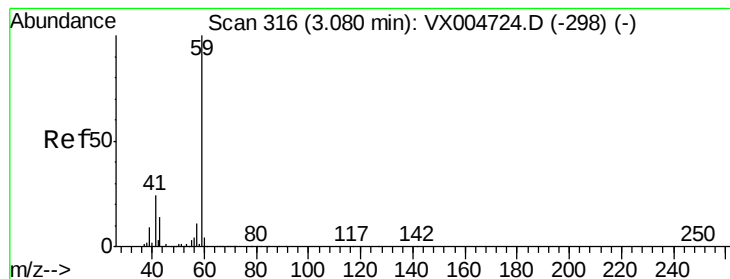
200

100

0

Time-->



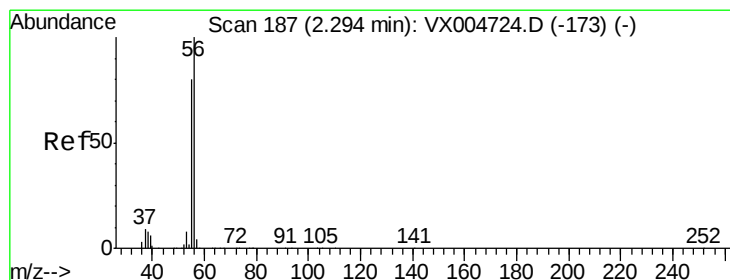
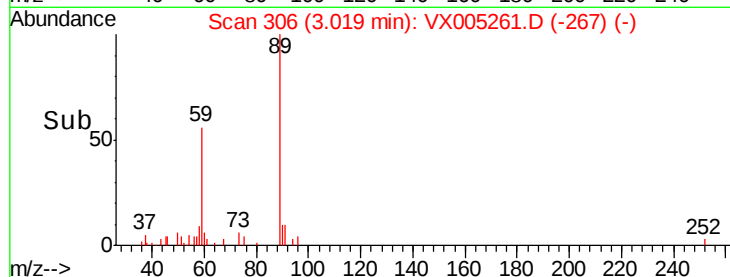
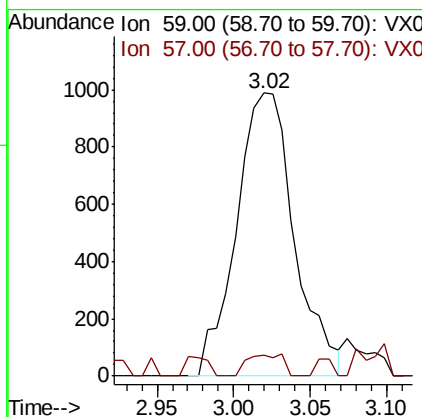
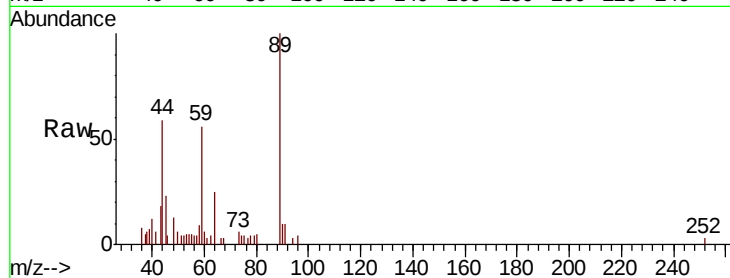


#11

Tert butyl alcohol
 Concen: 3.815 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005261.D
 Acq: 11 Oct 2018 18:39

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB04-20181008

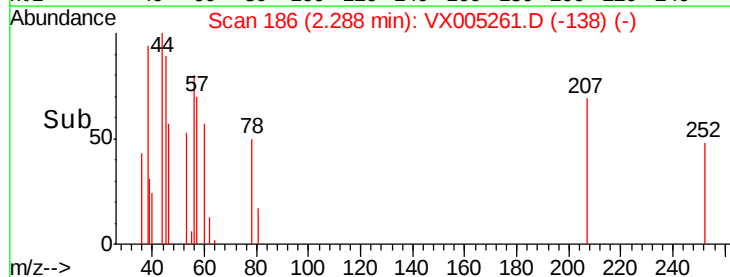
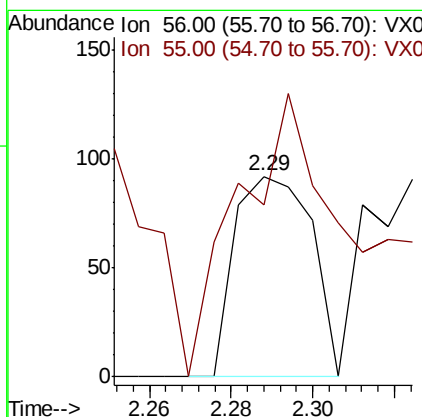
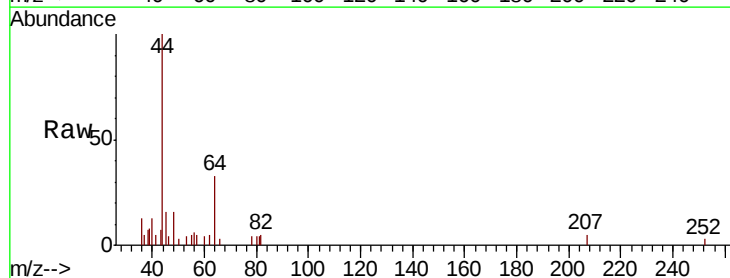
Tot Ion: 59 Resp: 2610
 Ion Ratio Lower Upper
 59 100
 57 4.7 8.6 12.8#

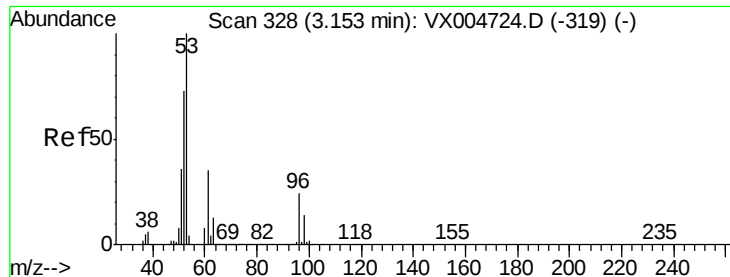


#13

Acrolein
 Concen: 0.249 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005261.D
 Acq: 11 Oct 2018 18:39

Tgt Ion: 56 Resp: 121
 Ion Ratio Lower Upper
 56 100
 55 193.4 63.4 95.2#





#15

Acrylonitrile

Concen: 0.266 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB04-20181008

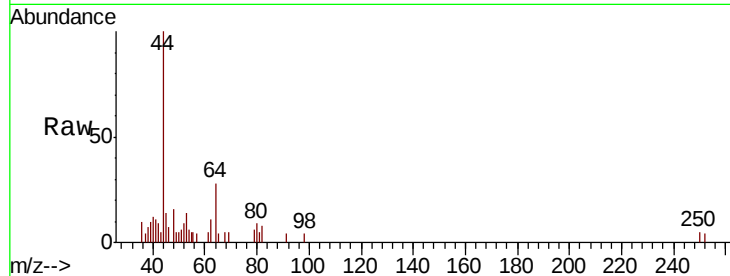
Tot Ion: 53 Resp: 400

Ion Ratio Lower Upper

53 100

52 0.0 63.0 94.4#

51 68.3 28.6 42.8#

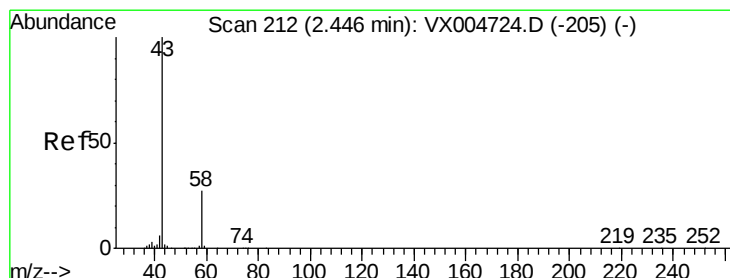
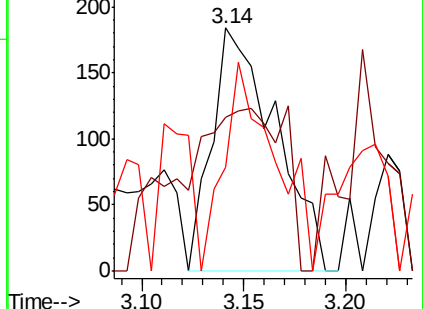
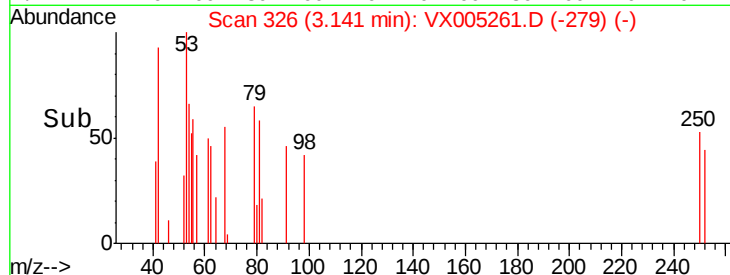


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Time-->



#16

Acetone

Concen: 2.947 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005261.D

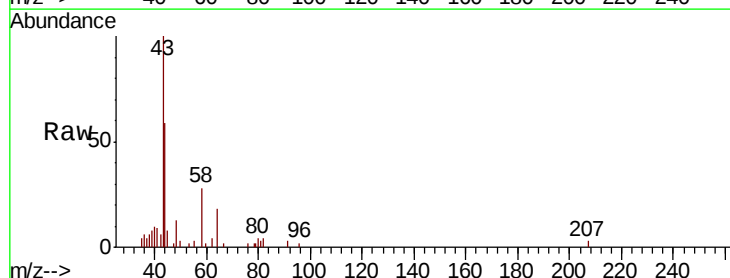
Acq: 11 Oct 2018 18:39

Tgt Ion: 43 Resp: 4210

Ion Ratio Lower Upper

43 100

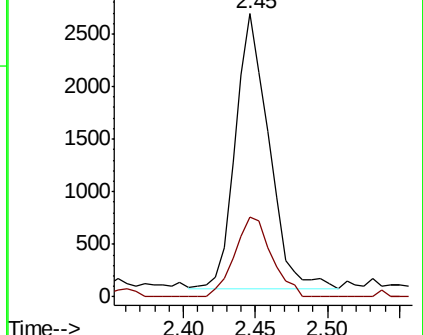
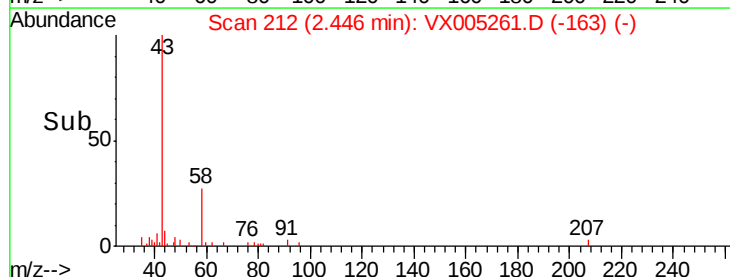
58 28.9 21.8 32.6

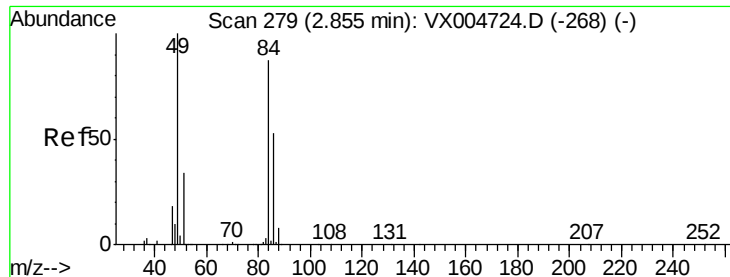


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB04-20181008

Tot Ion: 84 Resp: 884

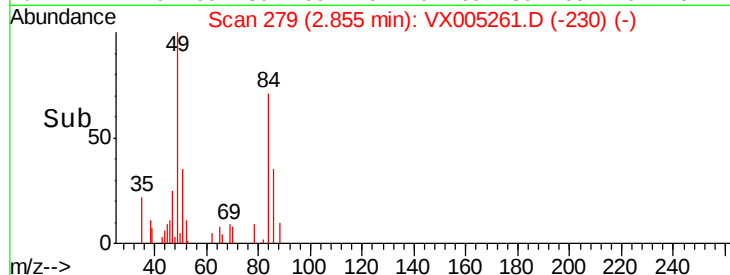
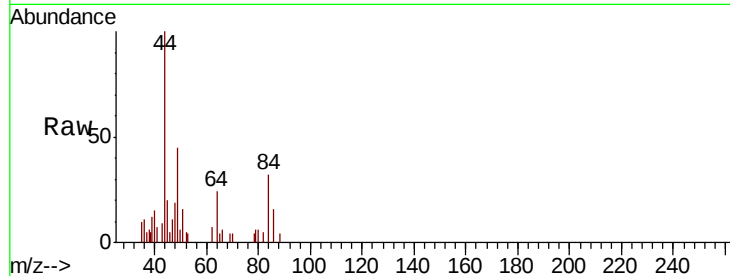
Ion Ratio Lower Upper

84 100

49 140.9 92.3 138.5#

51 48.9 31.8 47.6#

86 48.9 48.5 72.7

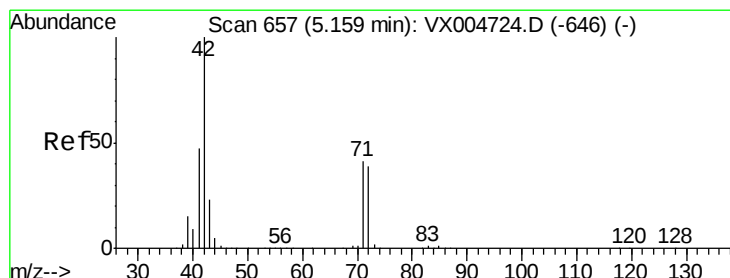
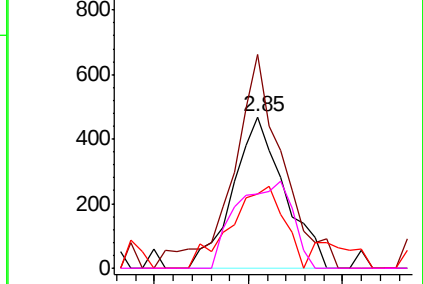


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#29

Tetrahydrofuran

Concen: 0.219 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.00 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

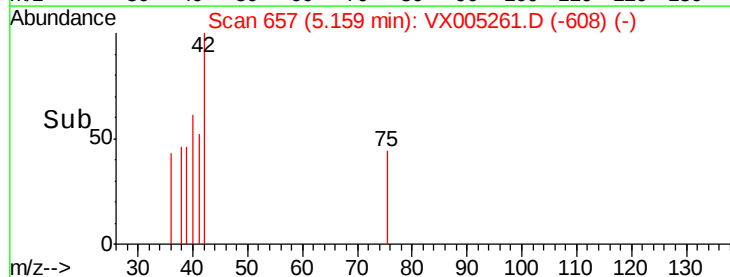
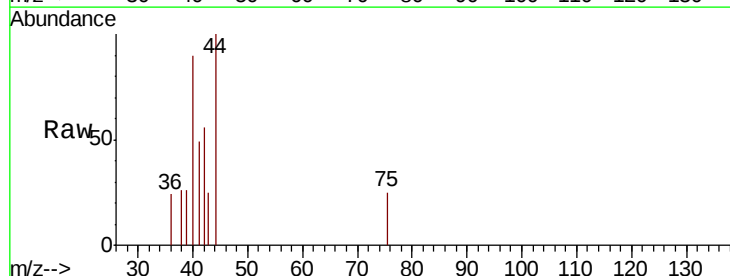
Tgt Ion: 42 Resp: 287

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

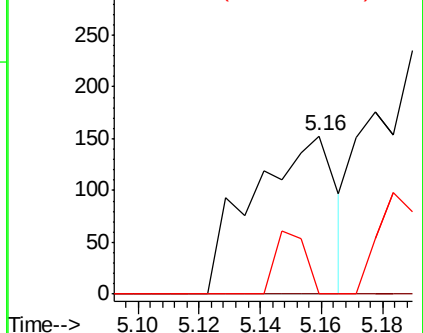
71 14.6 32.2 48.4#

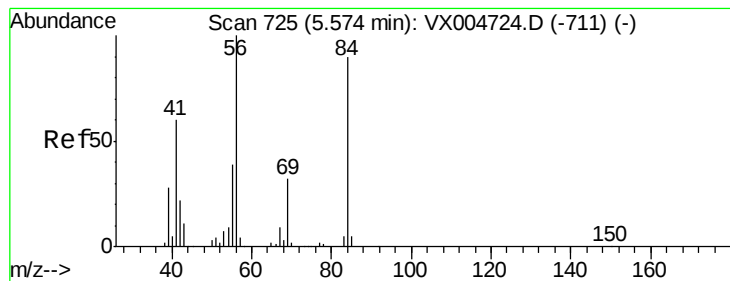


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.026 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX005261.D

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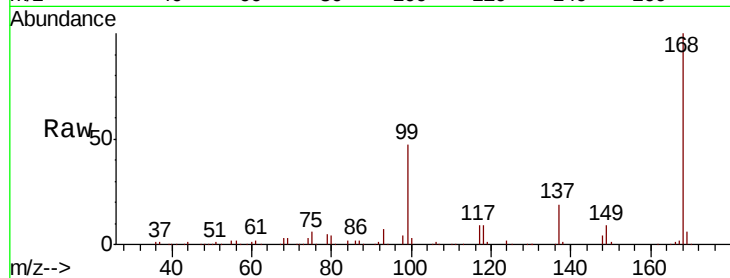
Tot Ion: 56 Resp: 3194

Ion Ratio Lower Upper

56 100

69 168.1 25.9 38.9#

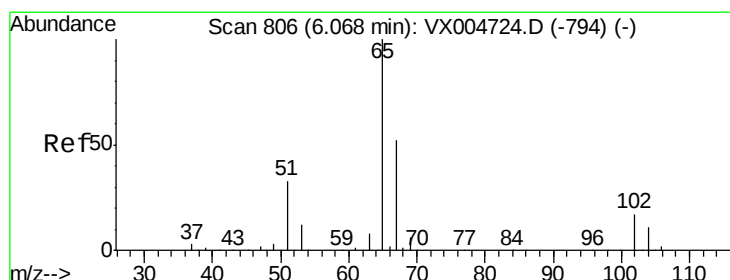
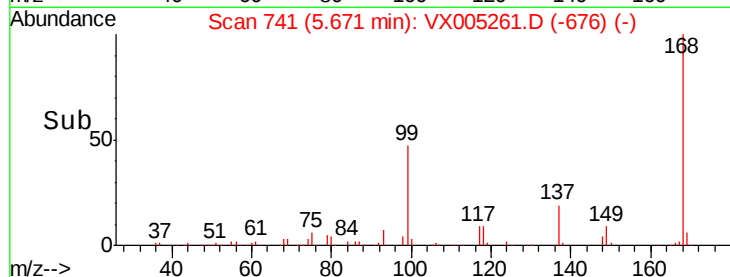
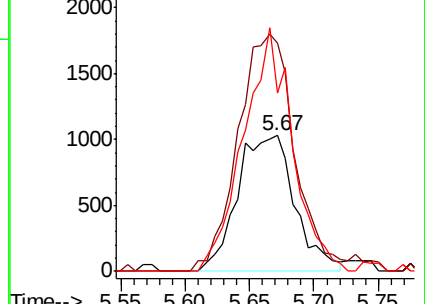
84 131.1 71.9 107.9#



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: 52.689 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005261.D

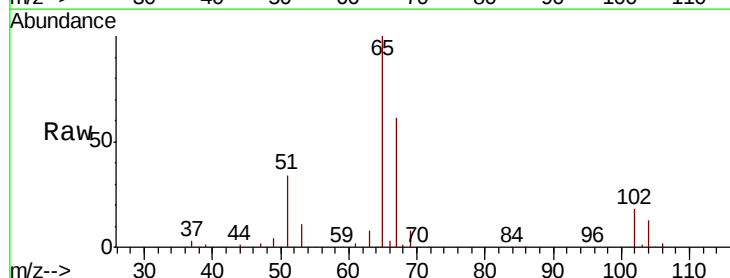
Acq: 11 Oct 2018 18:39

Tgt Ion: 65 Resp: 128915

Ion Ratio Lower Upper

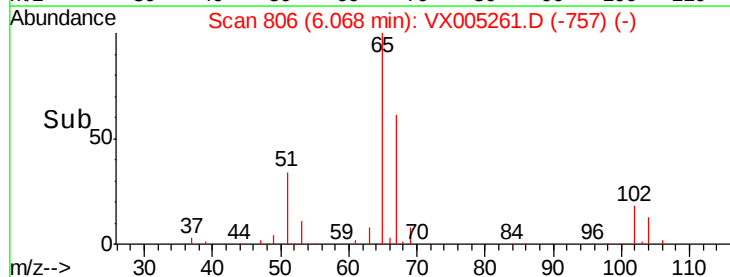
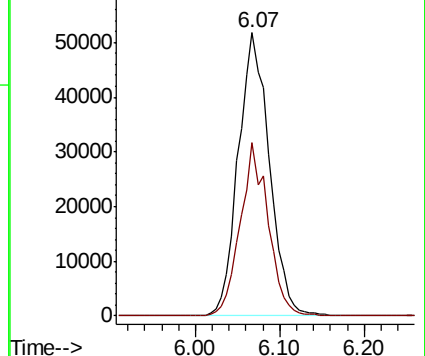
65 100

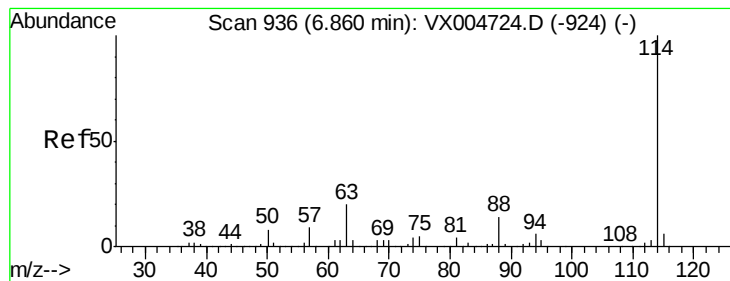
67 55.1 0.0 107.4



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: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB04-20181008

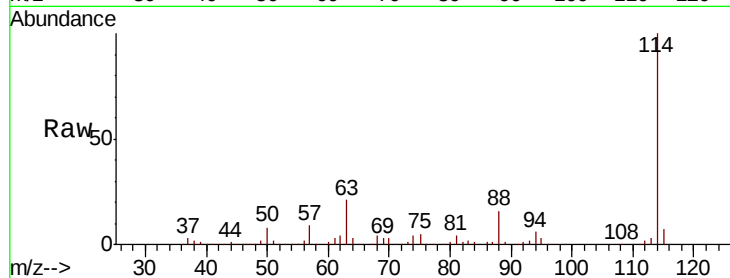
Tot Ion:114 Resp: 250252

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.8

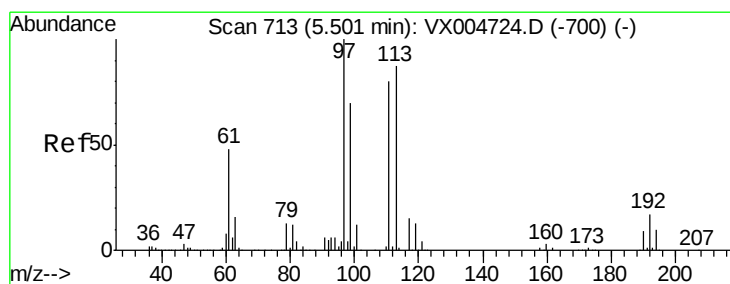
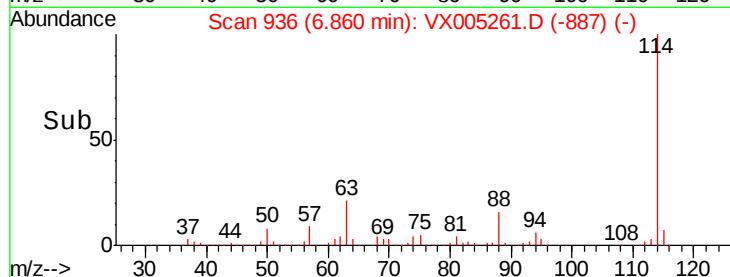
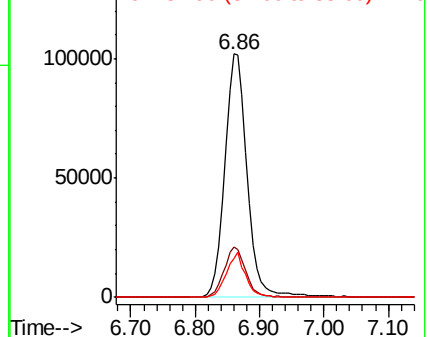
88 16.1 0.0 27.0



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: 53.262 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

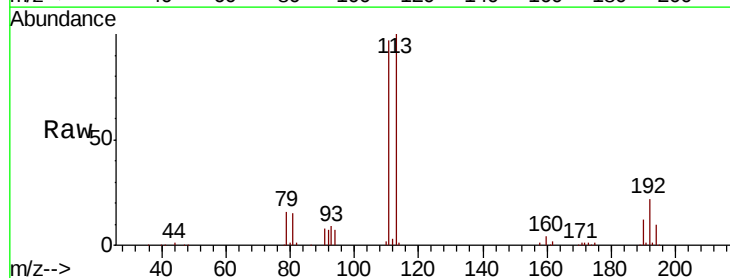
Tgt Ion:113 Resp: 112965

Ion Ratio Lower Upper

113 100

111 102.6 77.0 115.4

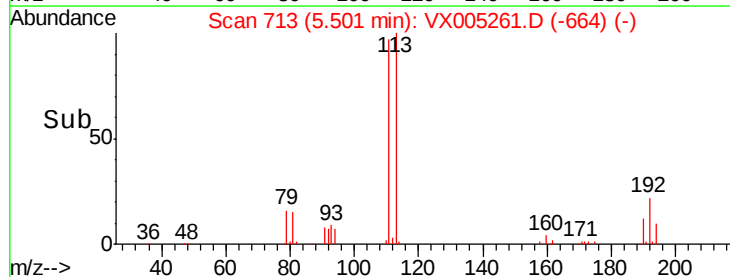
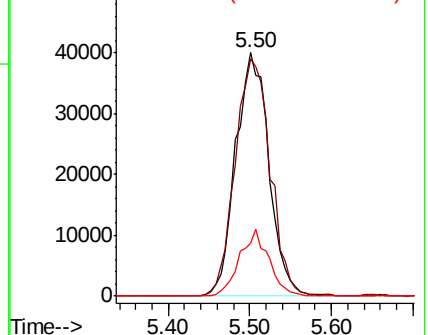
192 24.1 17.0 25.6

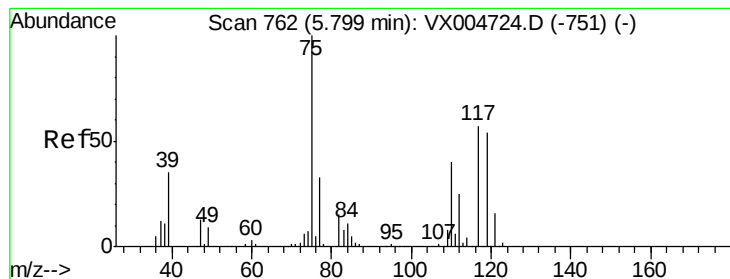


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.955 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB04-20181008

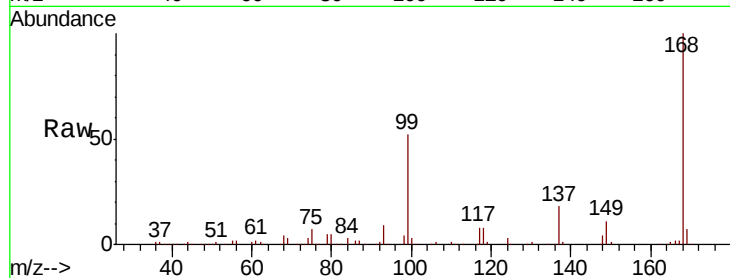
Tot Ion: 75 Resp: 11444

Ion Ratio Lower Upper

75 100

110 9.9 20.0 59.9#

77 0.2 27.1 40.7#

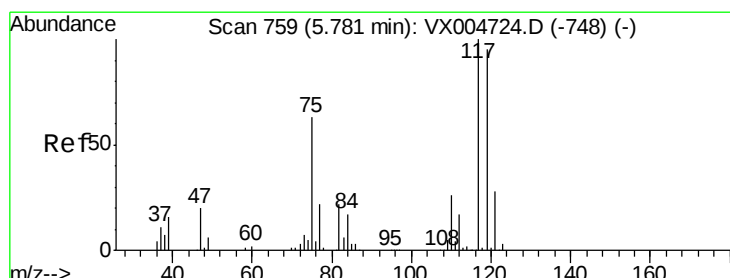
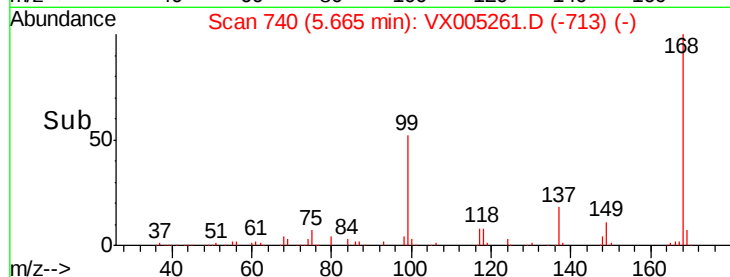


Abundance Ion 74.90 (74.60 to 75.60): VX004724.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX004724.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX004724.D (-751) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.882 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

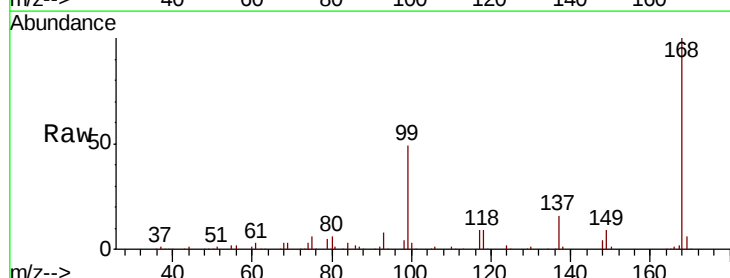
Tgt Ion: 117 Resp: 14850

Ion Ratio Lower Upper

117 100

119 5.4 75.2 112.8#

121 0.0 22.5 33.7#

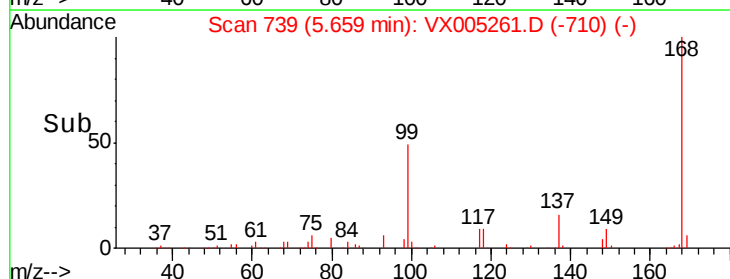


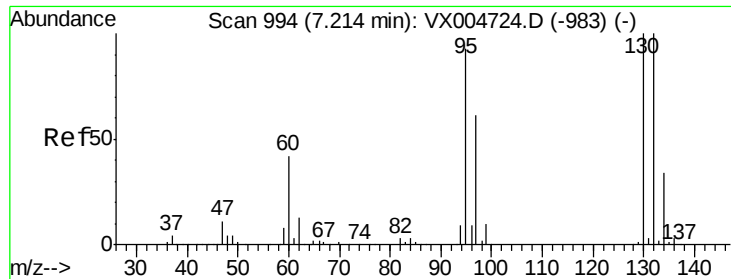
Abundance Ion 116.80 (116.50 to 117.50): VX004724.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX004724.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX004724.D (-748) (-)

Time-->

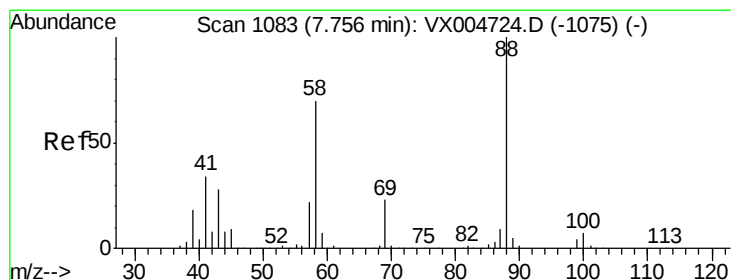
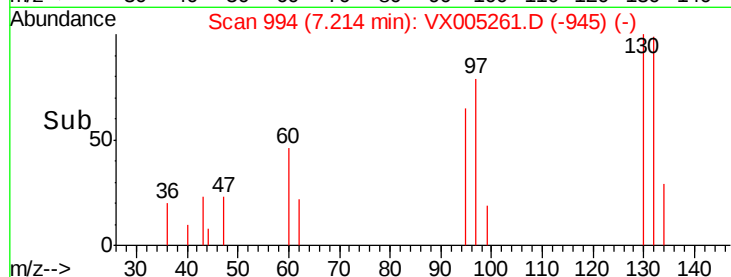
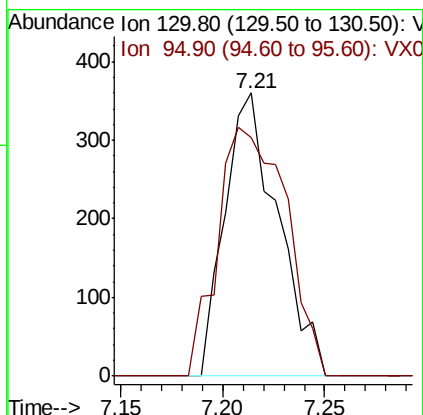
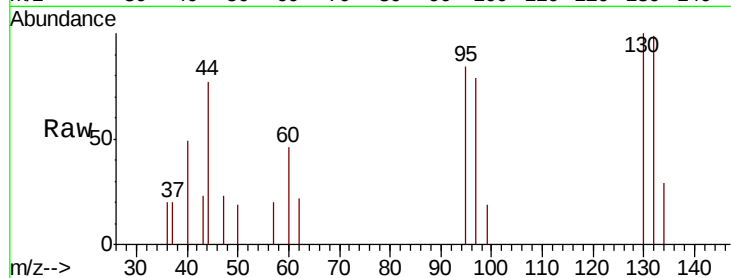




#44
 Trichloroethene
 Concen: 0.292 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX005261.D
 Acq: 11 Oct 2018 18:39

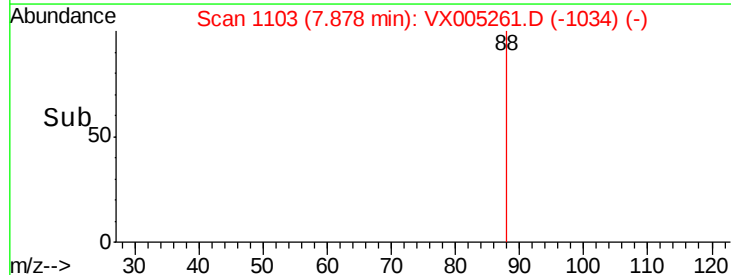
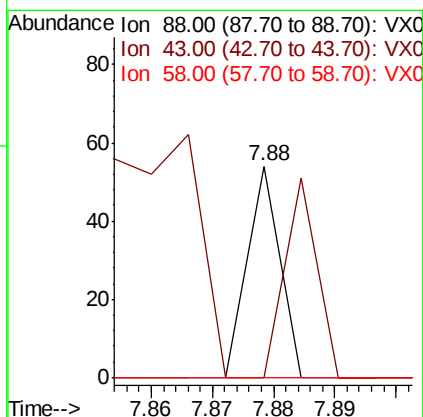
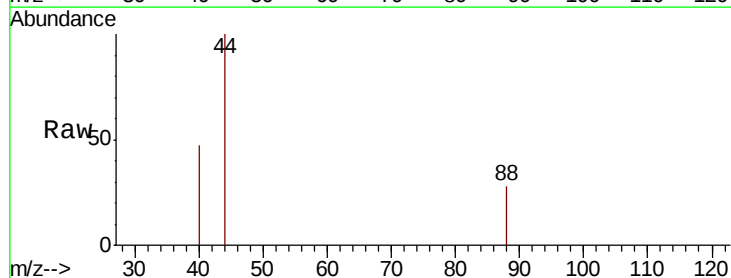
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB04-20181008

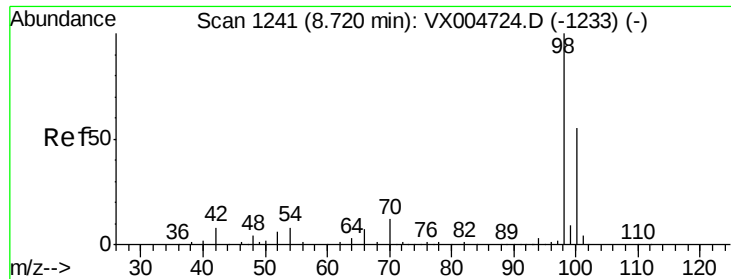
Tot Ion:130 Resp: 650
 Ion Ratio Lower Upper
 130 100
 95 84.2 0.0 186.8



#49
 1,4-Dioxane
 Concen: 0.320 ug/l
 RT: 7.88 min Scan# 1103
 Delta R.T. 0.12 min
 Lab File: VX005261.D
 Acq: 11 Oct 2018 18:39

Tgt Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 95.0 25.1 37.7#
 58 0.0 56.2 84.2#

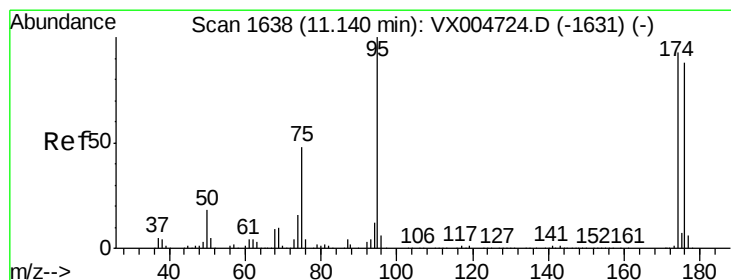
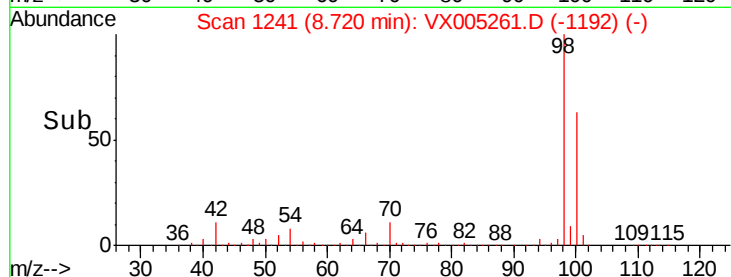
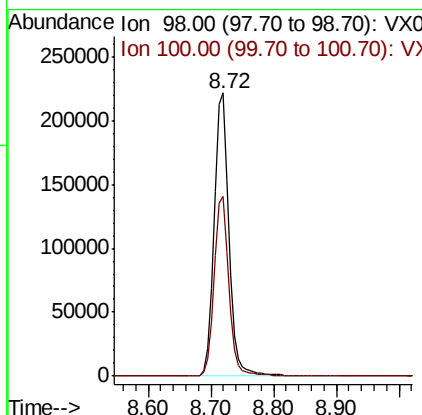
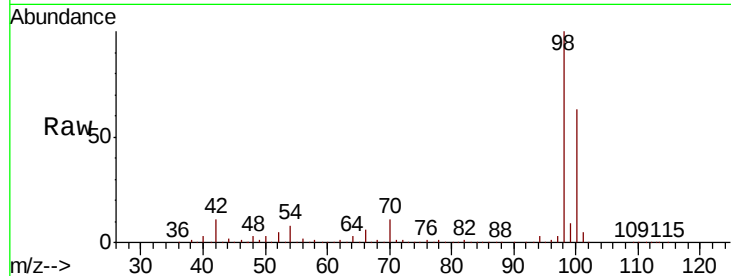




#50
Toluene-d8
Concen: 51.372 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005261.D
Acq: 11 Oct 2018 18:39

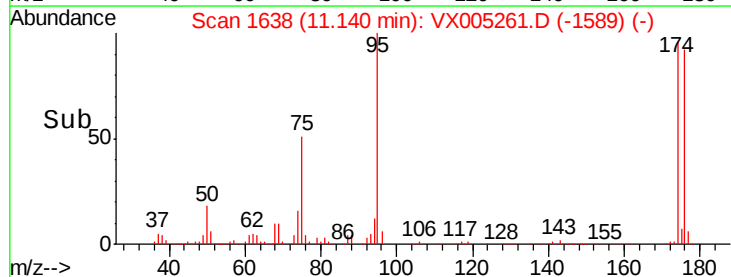
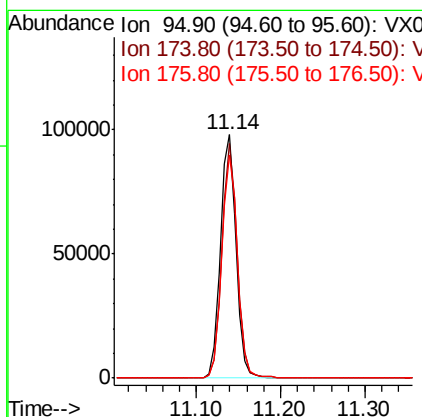
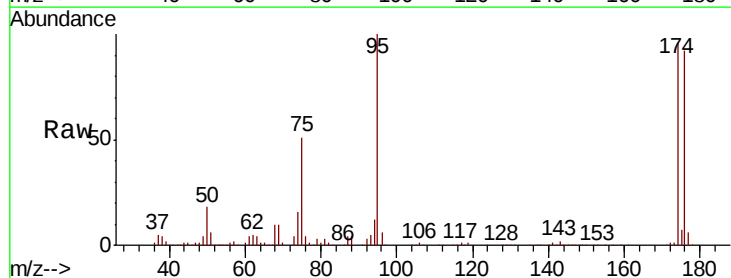
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB04-20181008

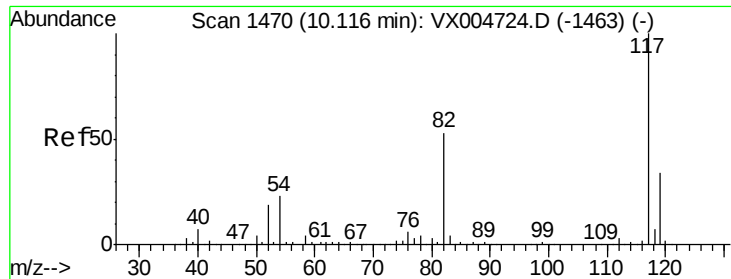
Tot Ion: 98 Resp: 362225
Ion Ratio Lower Upper
98 100
100 63.5 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 49.745 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005261.D
Acq: 11 Oct 2018 18:39

Tgt Ion: 95 Resp: 126361
Ion Ratio Lower Upper
95 100
174 94.5 0.0 185.0
176 92.0 0.0 180.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB04-20181008

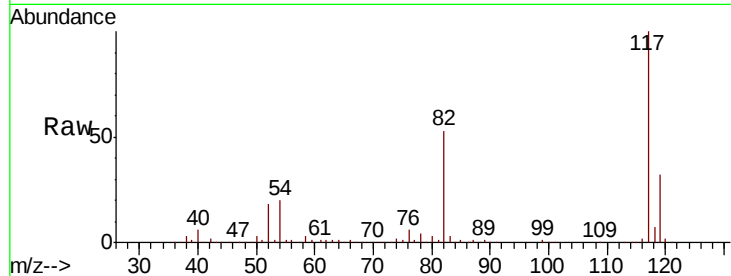
Tot Ion:117 Resp: 248783

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.4

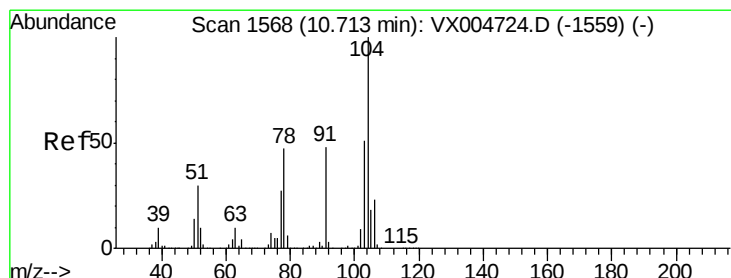
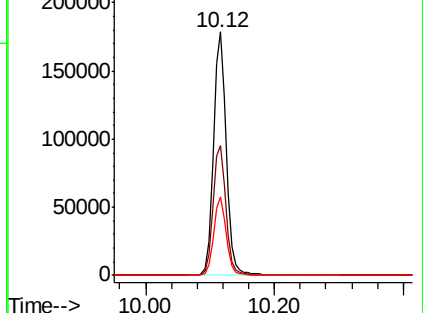
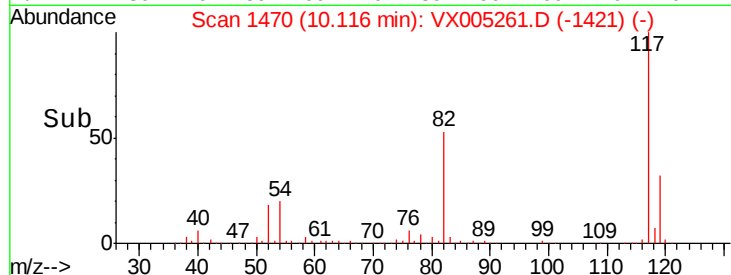
119 32.2 27.4 41.0



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



#70

Styrene

Concen: 2.147 ug/l

RT: 10.72 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

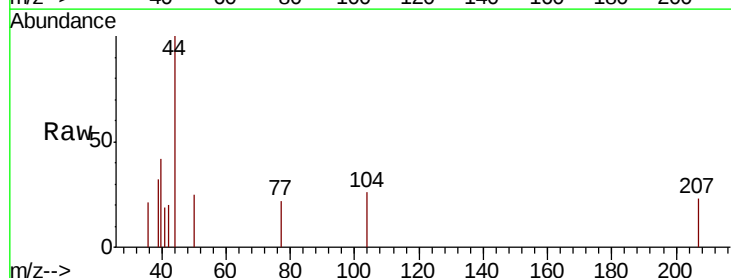
Tgt Ion:104 Resp: 46

Ion Ratio Lower Upper

104 100

78 0.0 40.0 60.0#

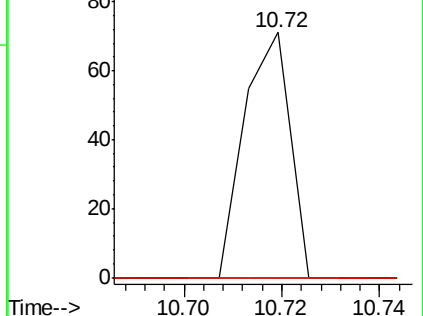
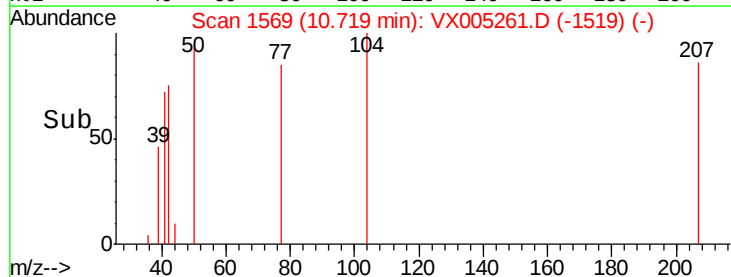
103 0.0 44.3 66.5#

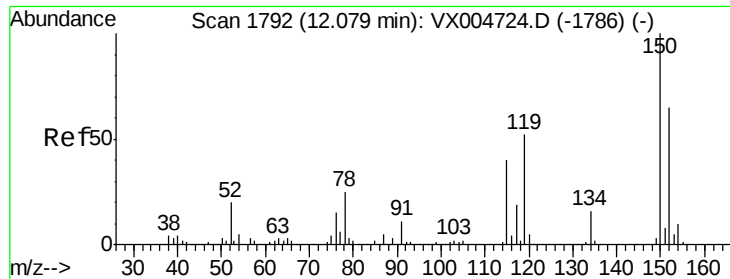


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



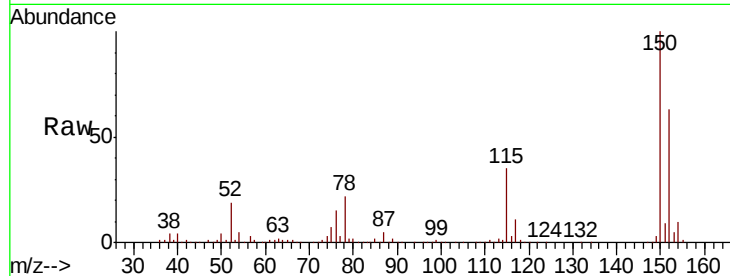


#72

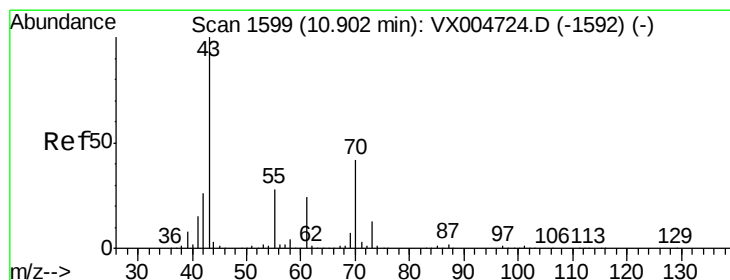
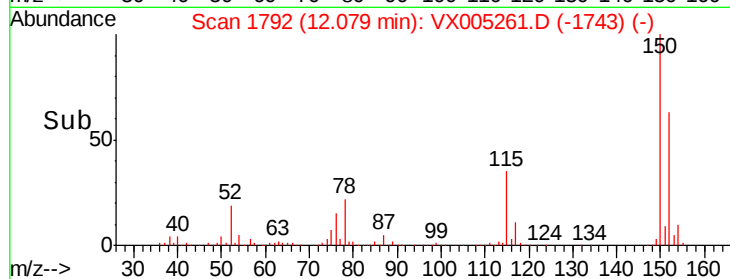
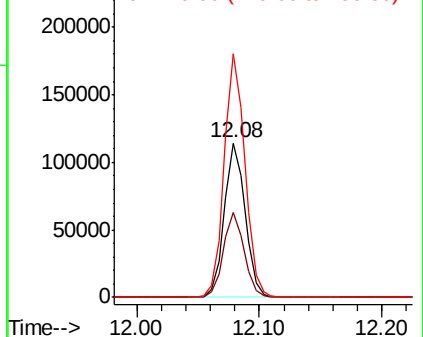
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005261.D
Acq: 11 Oct 2018 18:39

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB04-20181008

Tot Ion:152 Resp: 134645
Ion Ratio Lower Upper
152 100
115 54.2 40.2 120.6
150 157.7 0.0 351.0



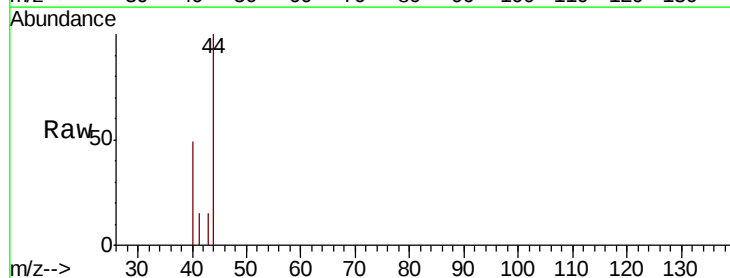
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



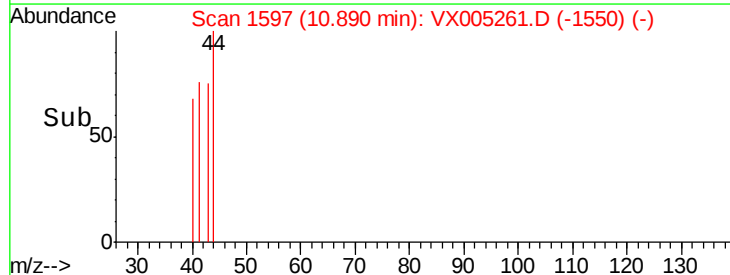
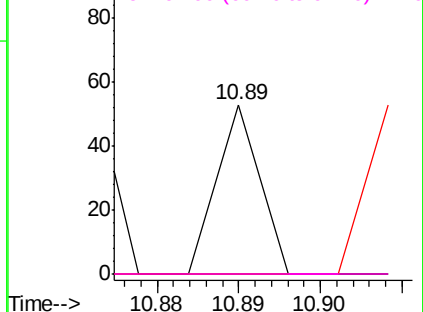
#74

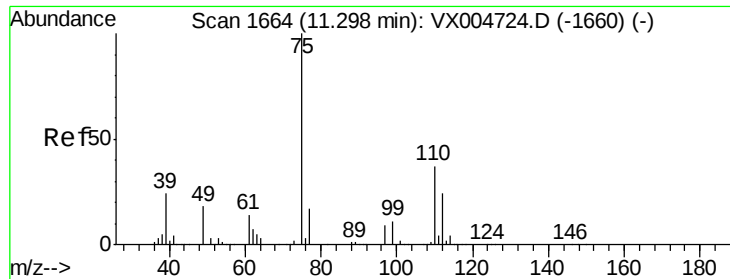
N-ethyl acetate
Concen: 1.752 ug/l
RT: 10.89 min Scan# 1597
Delta R.T. -0.01 min
Lab File: VX005261.D
Acq: 11 Oct 2018 18:39

Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
70 0.0 32.6 48.8#
55 100.0 21.6 32.4#
61 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 20.742 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

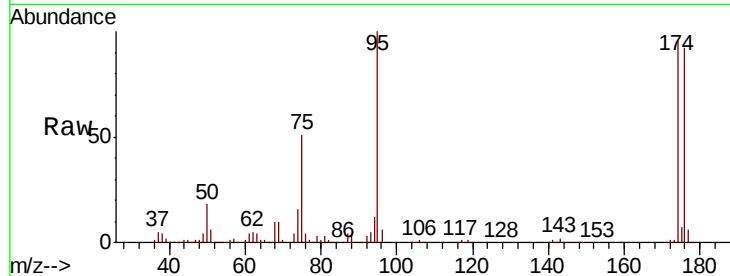
BP-TT-TB04-20181008

Tot Ion: 75 Resp: 62596

Ion Ratio Lower Upper

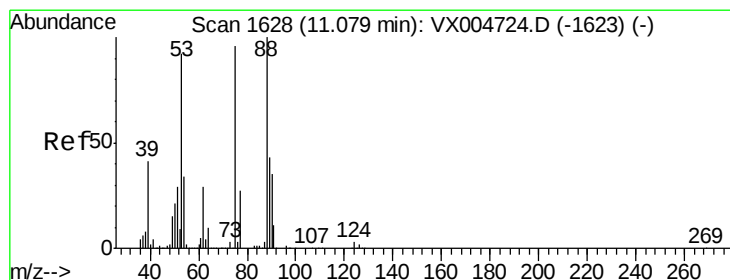
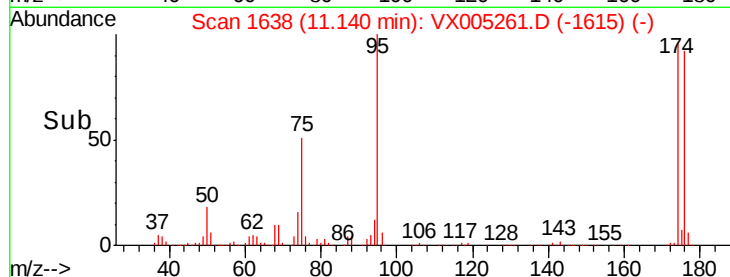
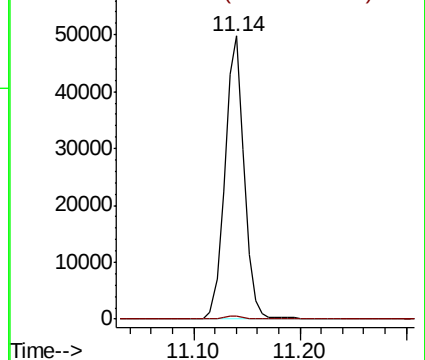
75 100

77 1.3 21.4 64.3#



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: 56.309 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005261.D

Acq: 11 Oct 2018 18:39

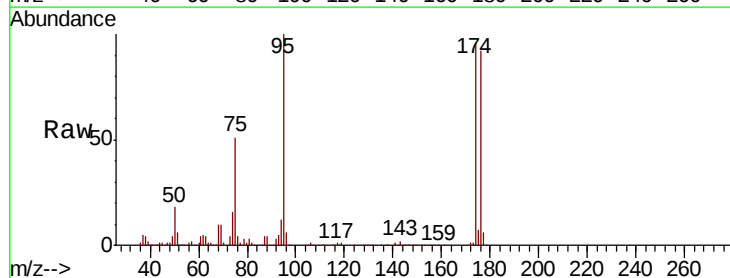
Tgt Ion: 75 Resp: 62596

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.4#

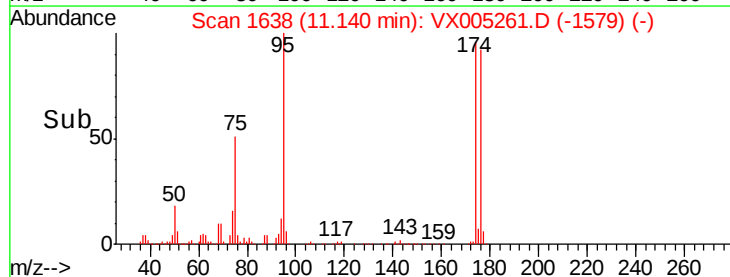
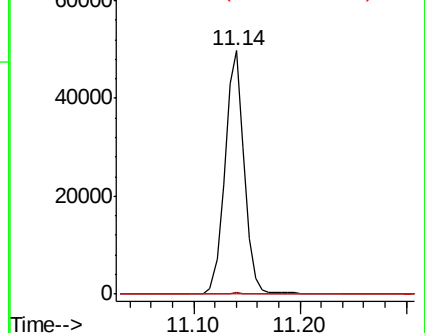
89 0.0 37.1 55.7#

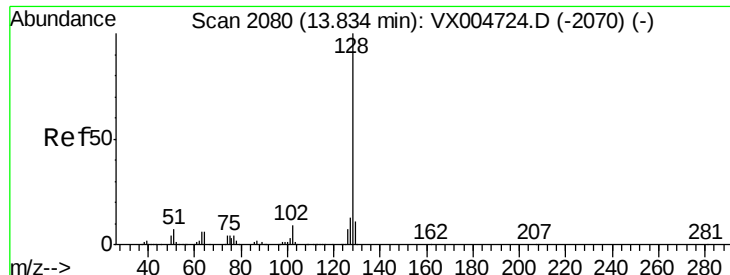


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.747 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005261.D

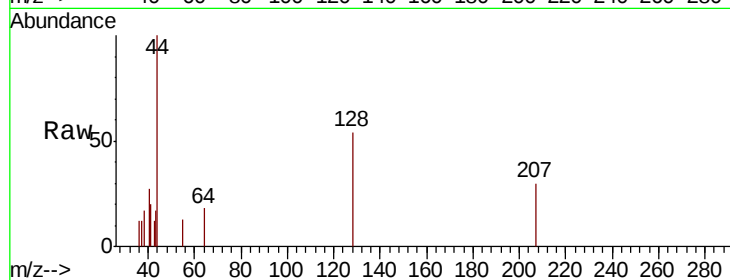
Acq: 11 Oct 2018 18:39

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB04-20181008



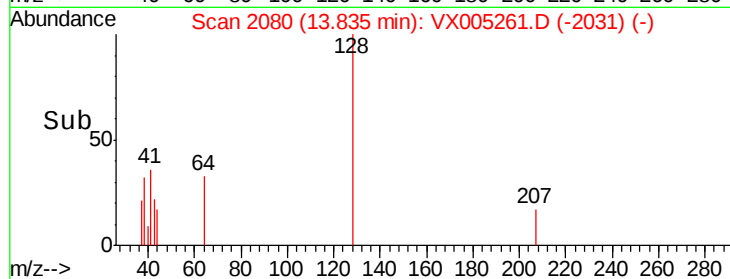
Tot Ion:128 Resp: 309

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

