

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092718\
 Data File : VX004801.D
 Acq On : 28 Sep 2018 04:11
 Operator : JC/MD
 Sample : J5033-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BB-TT-DUP05-20180918

Quant Time: Sep 28 06:05:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	225850	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	370057	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364177	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	203371	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	179937	55.77	ug/l	0.00
Spiked Amount			Recovery	=	111.54%	
35) Dibromofluoromethane	5.50	113	150501	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
50) Toluene-d8	8.72	98	542448	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
62) 4-Bromofluorobenzene	11.14	95	194785	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	

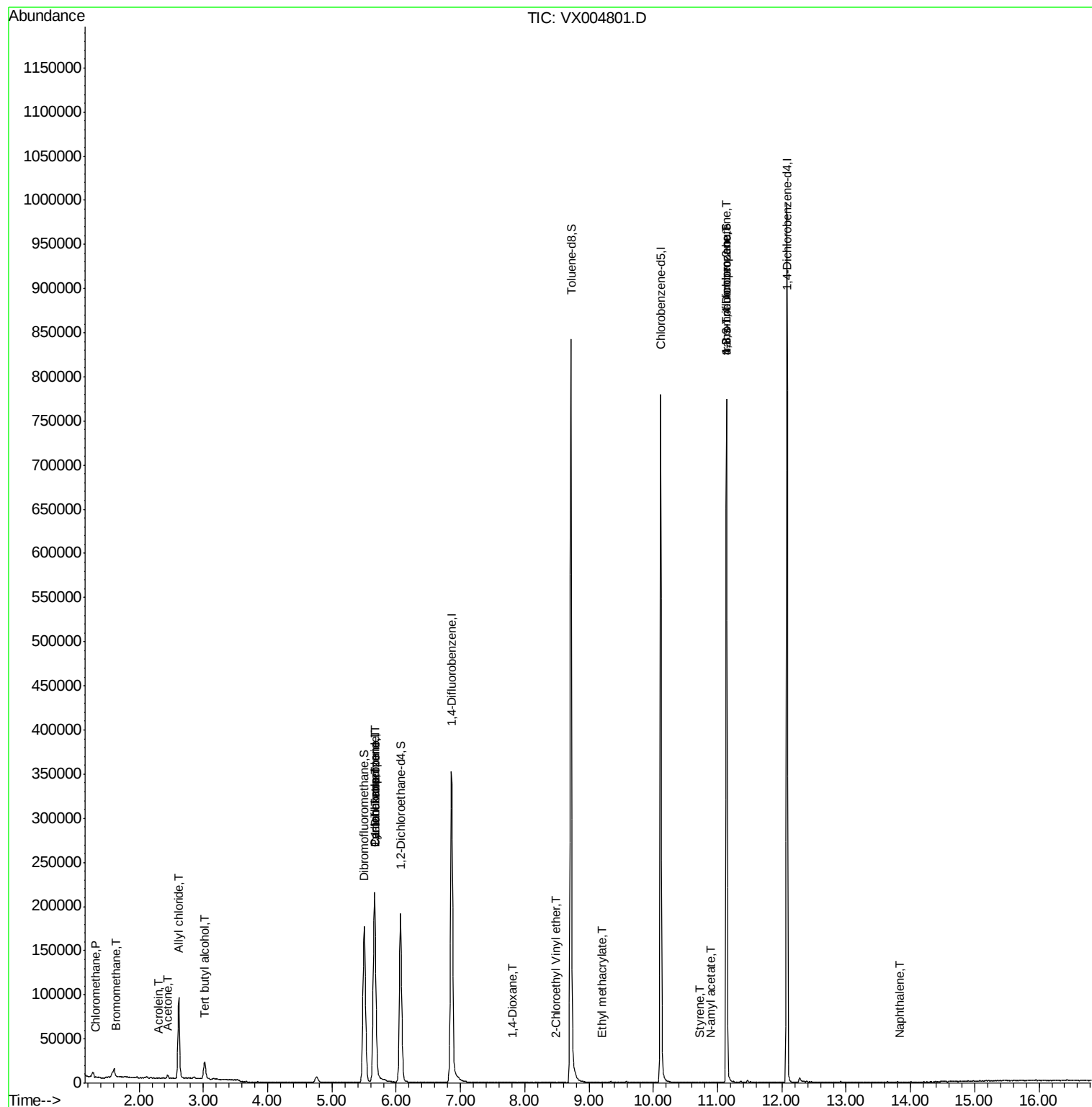
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	913	0.244	ug/l #	68
5) Bromomethane	1.65	94	501	0.241	ug/l	82
6) Chloroethane	1.64	64	611	Below Cal	#	44
11) Tert butyl alcohol	3.02	59	12296	13.630	ug/l #	76
13) Acrolein	2.30	56	331	0.516	ug/l #	16
14) Allyl chloride	2.62	41	9089	1.702	ug/l #	62
16) Acetone	2.45	43	3805	2.020	ug/l #	87
20) Methylene Chloride	2.85	84	730	Below Cal	#	83
31) Cyclohexane	5.67	56	4597	1.120	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16076	3.757	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20145	4.479	ug/l #	16
49) 1,4-Dioxane	7.80	88	19	0.206	ug/l #	1
56) Ethyl methacrylate	9.20	69	25	2.867	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.48	63	70	14.266	ug/l #	45
70) Styrene	10.71	104	44	2.145	ug/l #	27
74) N-amyl acetate	10.90	43	54	1.755	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	96548	21.181	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	92	Below Cal	#	56
81) trans-1,4-Dichloro-2-buten	11.14	75	96548	57.459	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	124	Below Cal	#	30
95) Naphthalene	13.83	128	256	0.734	ug/l #	70

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

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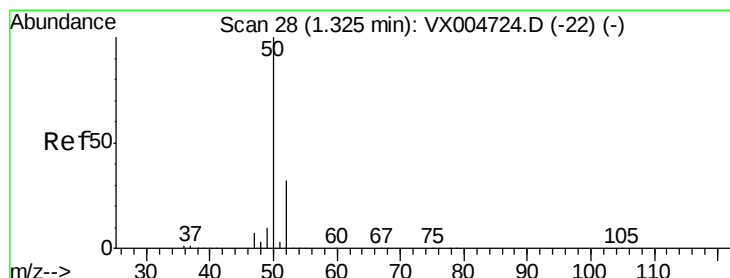
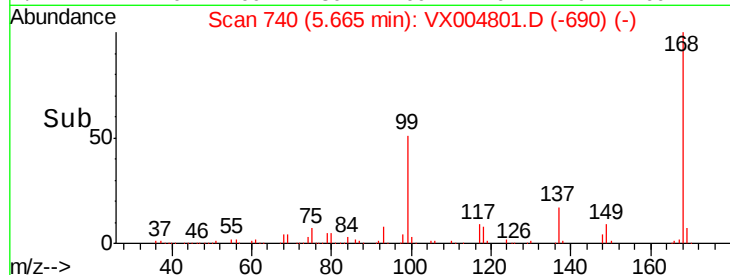
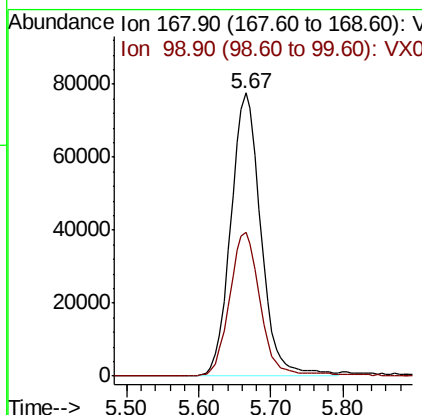
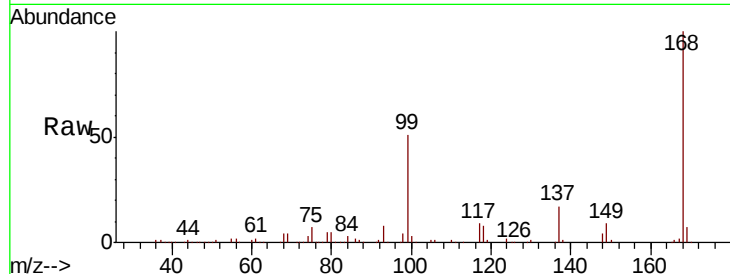




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX004801.D
Acq: 28 Sep 2018 04:11

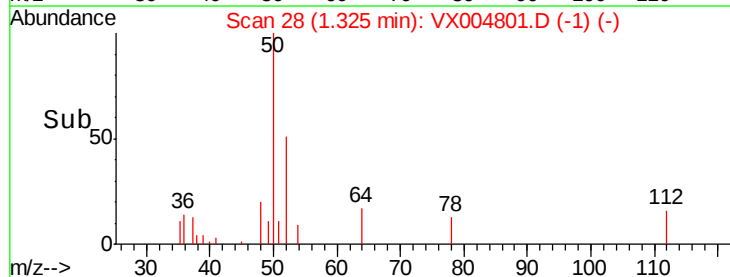
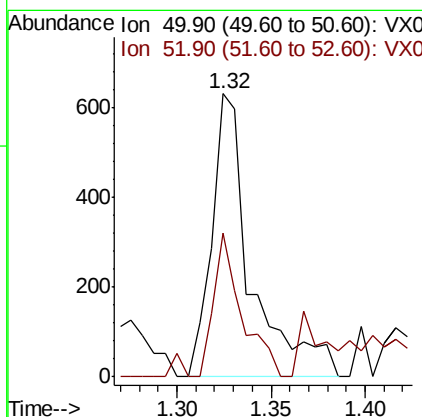
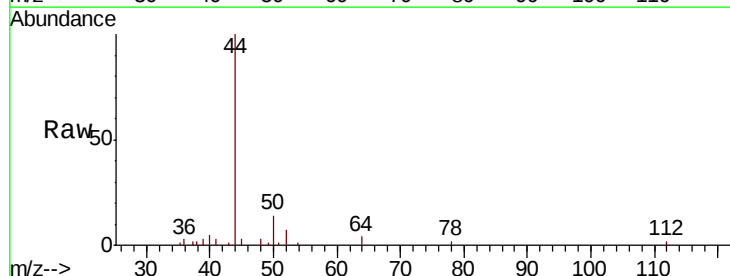
Instrument :
MSVOA_X
ClientSampleId :
BB-TT-DUP05-20180918

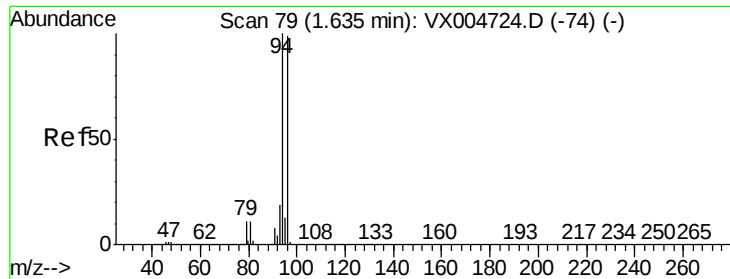
Tot Ion:168 Resp: 225850
Ion Ratio Lower Upper
168 100
99 50.5 39.9 59.9



#3
Chloromethane
Concen: 0.244 ug/l
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX004801.D
Acq: 28 Sep 2018 04:11

Tgt Ion: 50 Resp: 913
Ion Ratio Lower Upper
50 100
52 50.6 26.2 39.2#





#5

Bromomethane

Concen: 0.241 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

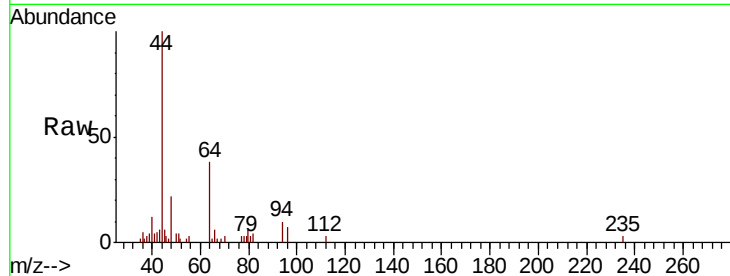
BB-TT-DUP05-20180918

Tot Ion: 94 Resp: 501

Ion Ratio Lower Upper

94 100

96 76.2 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

250

200

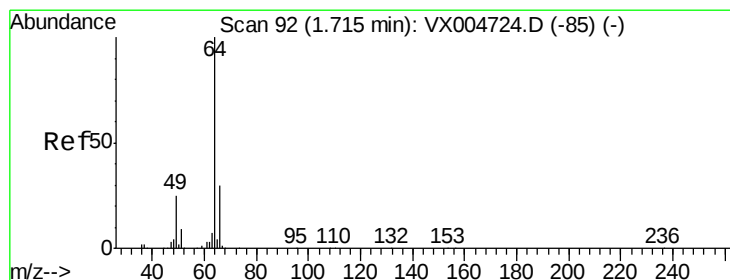
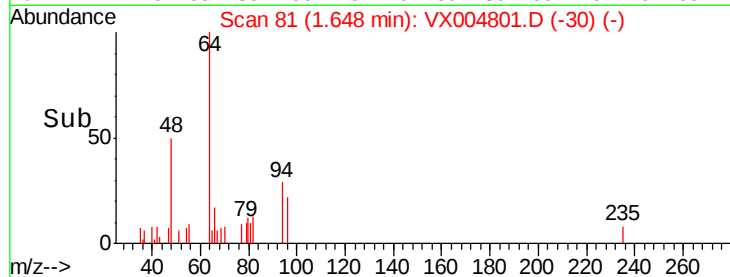
150

100

50

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.64 min Scan# 79

Delta R.T. -0.08 min

Lab File: VX004801.D

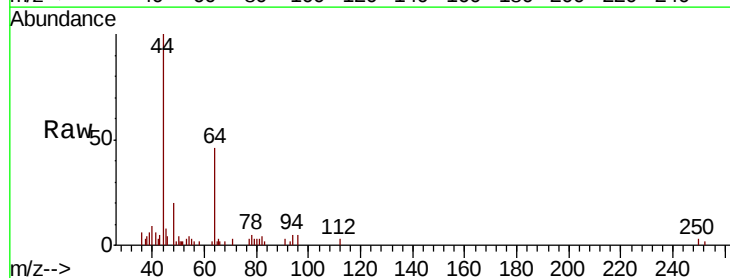
Acq: 28 Sep 2018 04:11

Tgt Ion: 64 Resp: 611

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.64

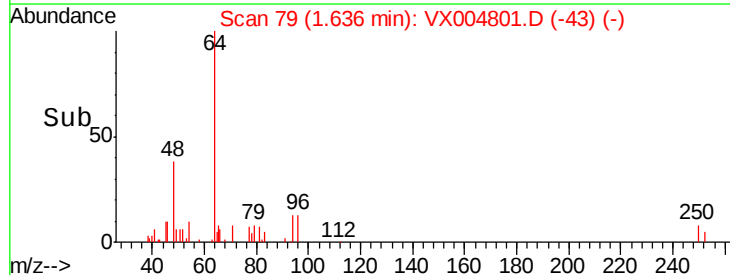
1500

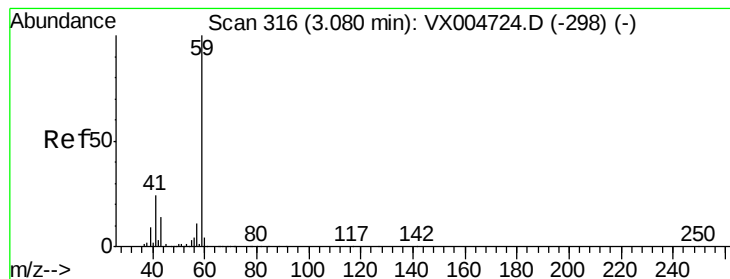
1000

500

0

Time-->



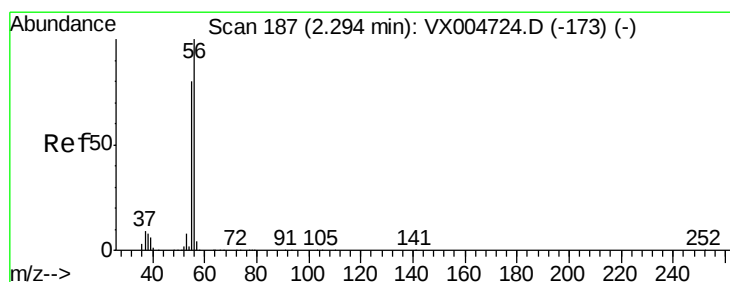
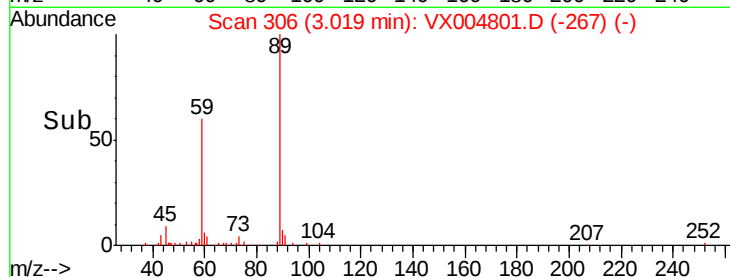
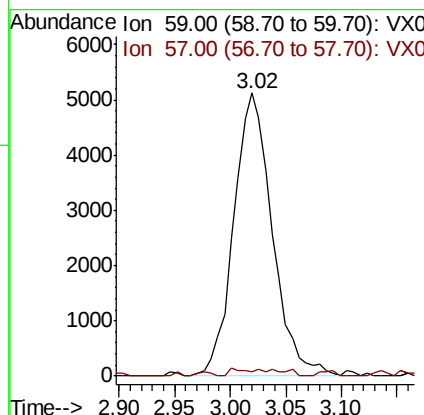
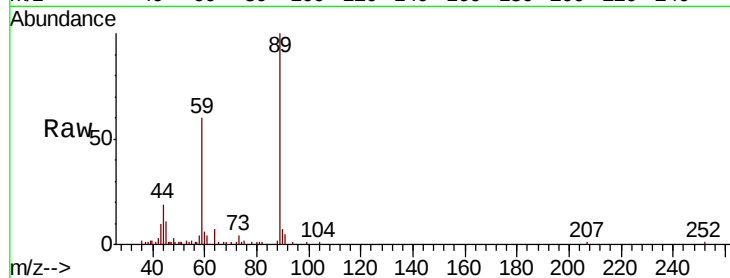


#11

Tert butyl alcohol
 Concen: 13.630 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX004801.D
 Acq: 28 Sep 2018 04:11

Instrument :
 MSVOA_X
 ClientSampleId :
 BB-TT-DUP05-20180918

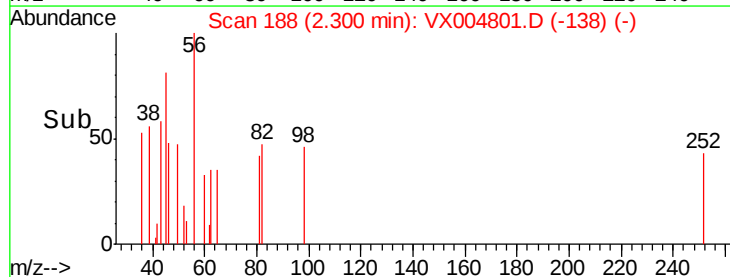
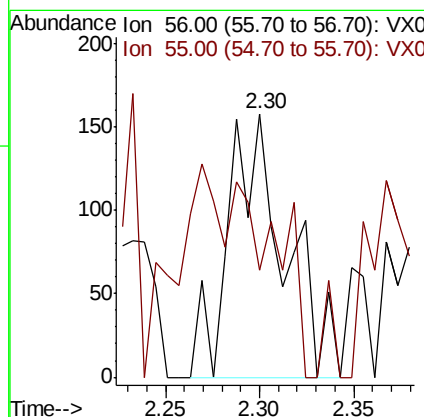
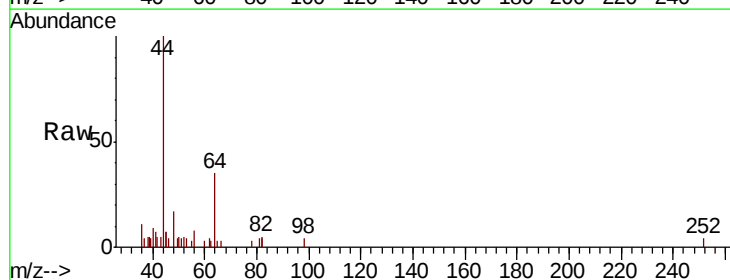
Tot Ion: 59 Resp: 12296
 Ion Ratio Lower Upper
 59 100
 57 1.3 8.2 12.4#

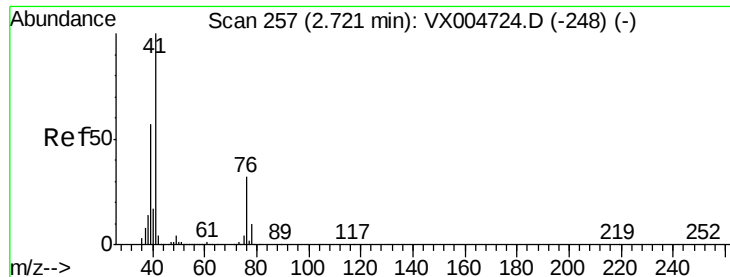


#13

Acrolein
 Concen: 0.516 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX004801.D
 Acq: 28 Sep 2018 04:11

Tgt Ion: 56 Resp: 331
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#





#14

Allvl chloride

Concen: 1.702 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

BB-TT-DUP05-20180918

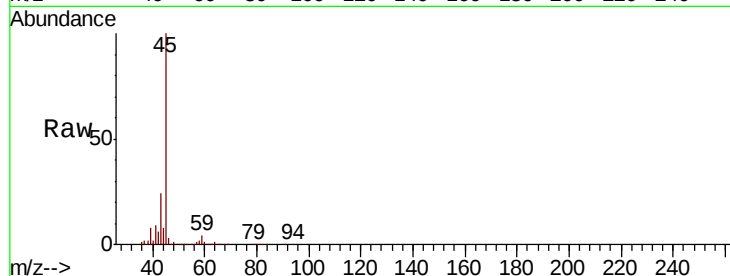
Tot Ion: 41 Resp: 9089

Ion Ratio Lower Upper

41 100

39 80.9 48.9 73.3#

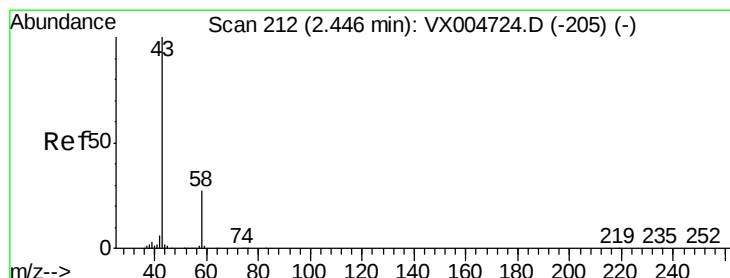
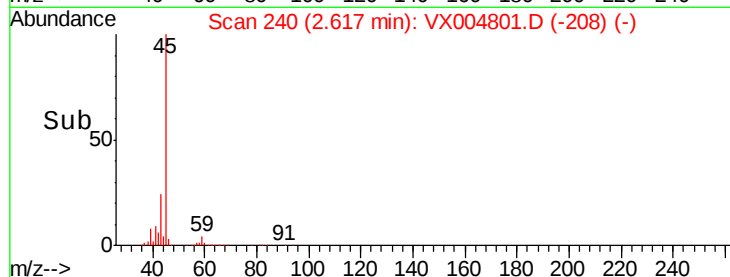
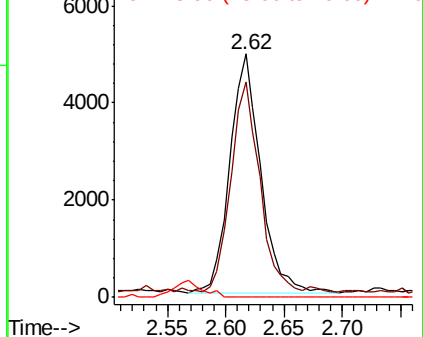
76 0.0 26.7 40.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0



#16

Acetone

Concen: 2.020 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004801.D

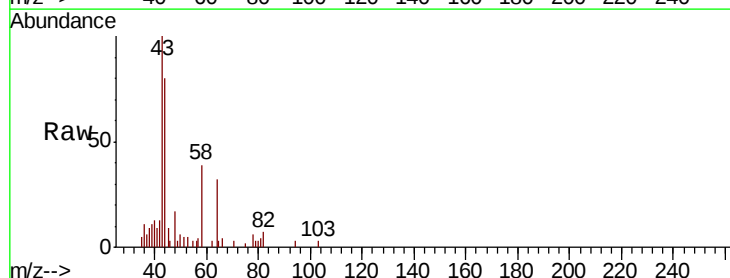
Acq: 28 Sep 2018 04:11

Tgt Ion: 43 Resp: 3805

Ion Ratio Lower Upper

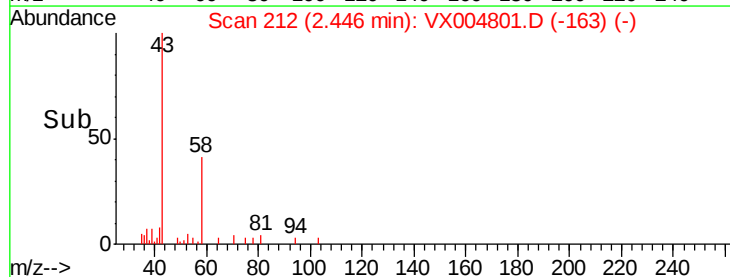
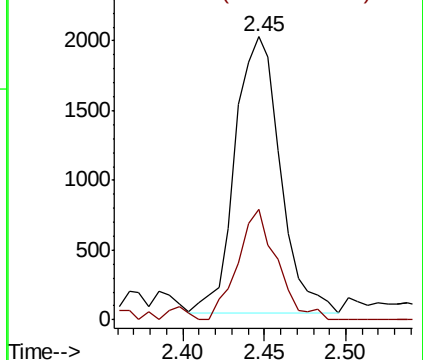
43 100

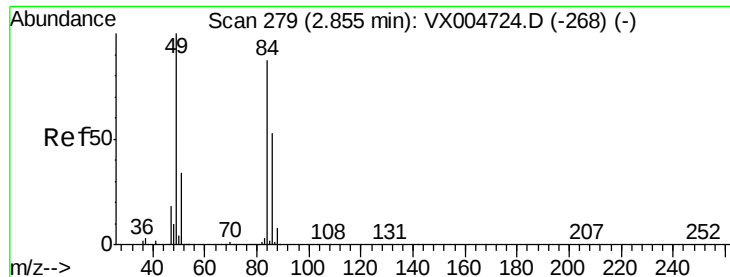
58 40.1 26.2 39.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

BB-TT-DUP05-20180918

Tot Ion: 84 Resp: 730

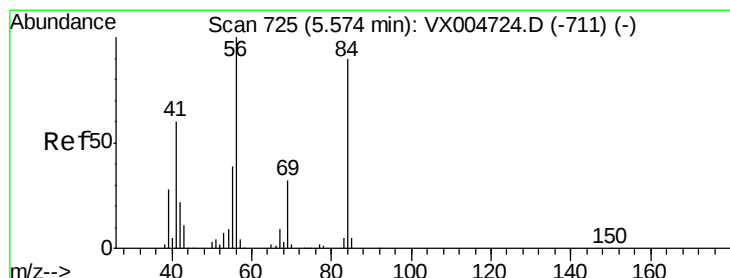
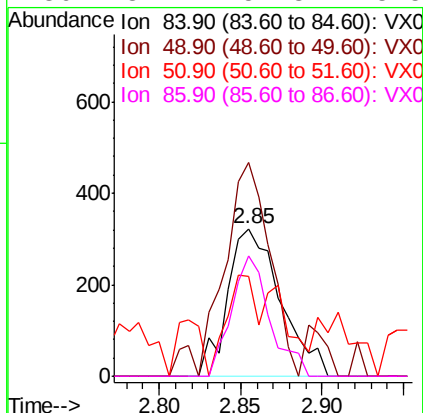
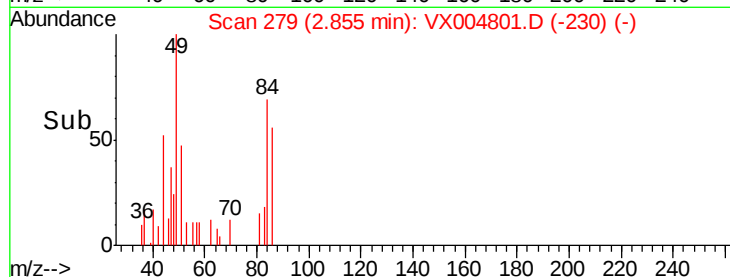
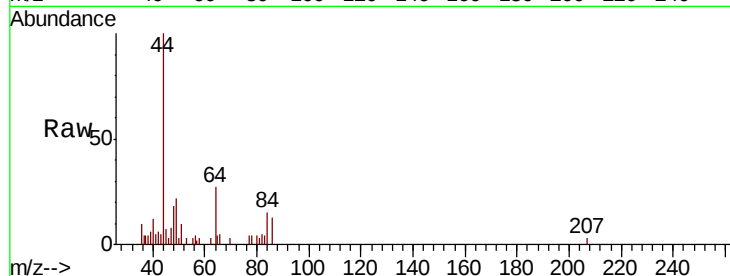
Ion Ratio Lower Upper

84 100

49 144.6 101.2 151.8

51 29.4 29.5 44.3#

86 81.4 52.3 78.5#



#31

Cyclohexane

Concen: 1.120 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

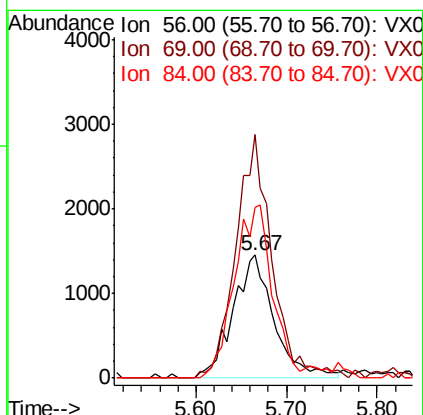
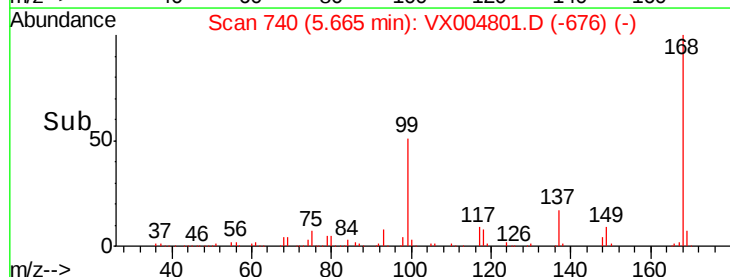
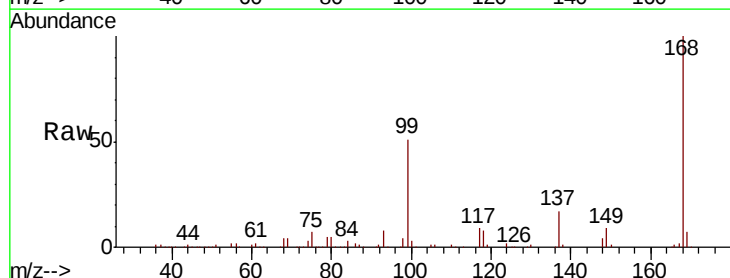
Tgt Ion: 56 Resp: 4597

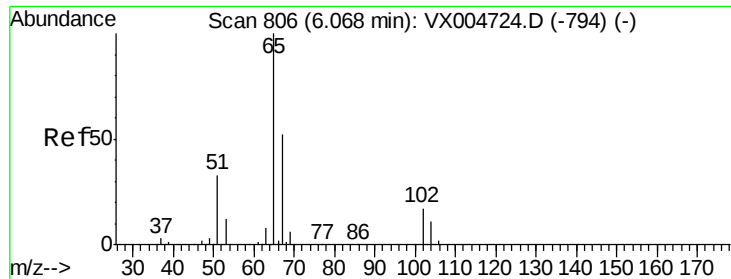
Ion Ratio Lower Upper

56 100

69 198.2 25.4 38.2#

84 139.0 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 55.772 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

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ClientSampleId :

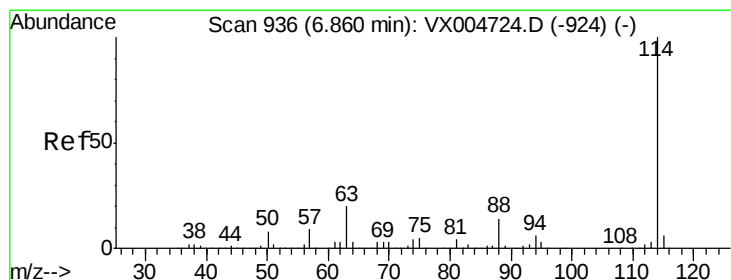
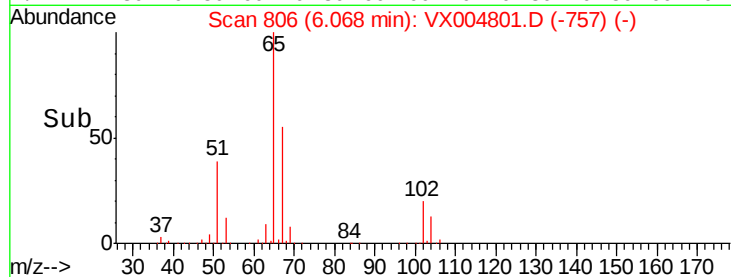
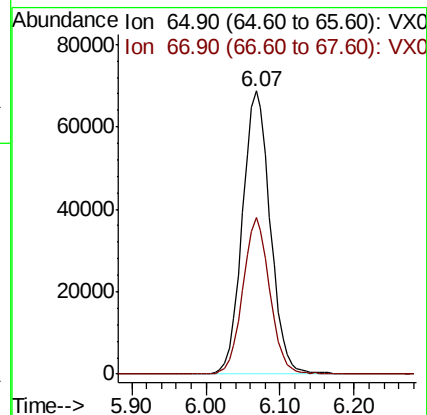
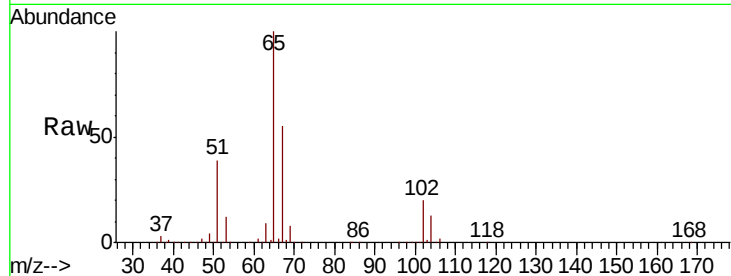
BB-TT-DUP05-20180918

Tot Ion: 65 Resp: 179937

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

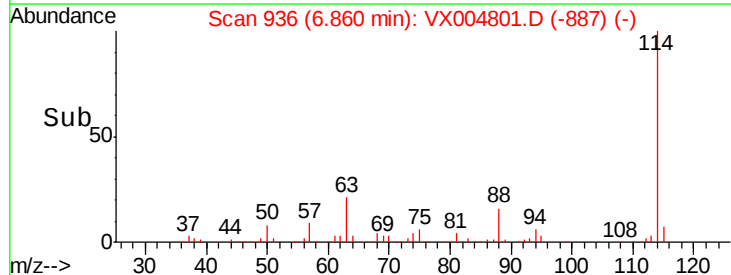
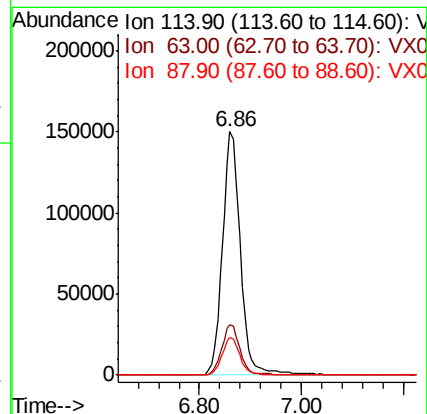
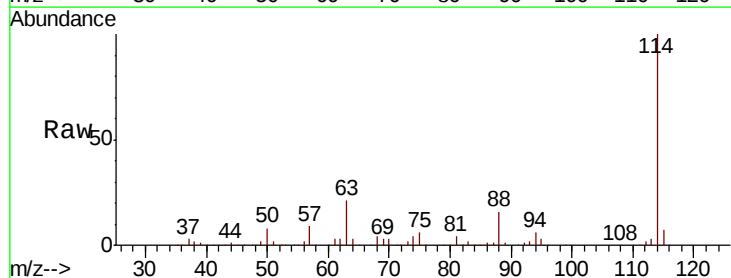
Tgt Ion: 114 Resp: 370057

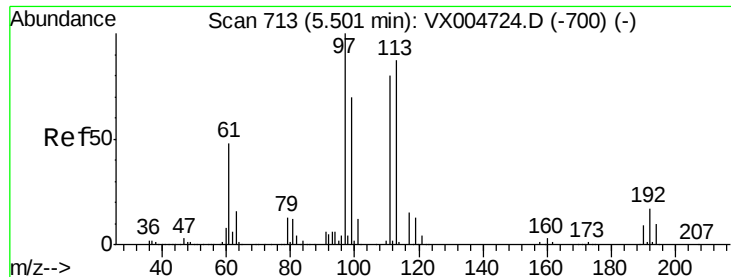
Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.0

88 15.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 47.987 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

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ClientSampleId :

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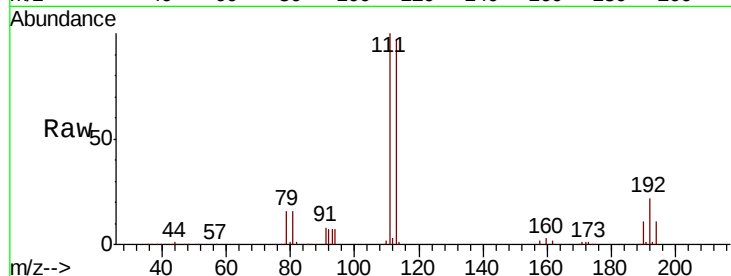
Tot Ion:113 Resp: 150501

Ion Ratio Lower Upper

113 100

111 102.7 82.4 123.6

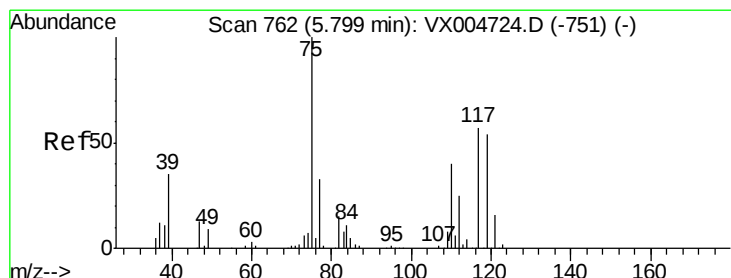
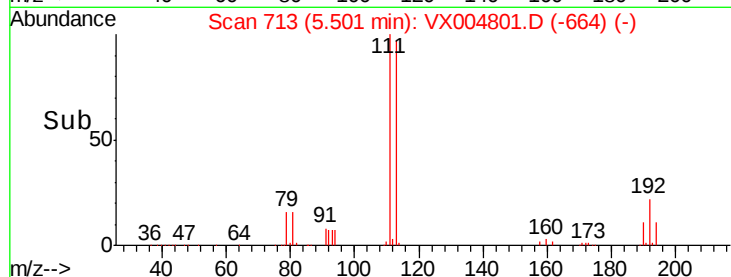
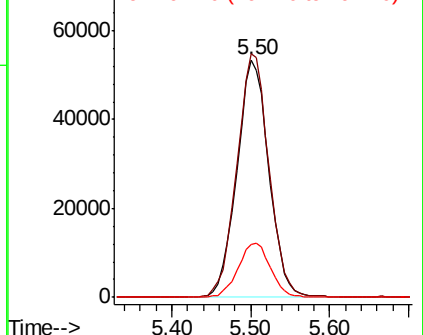
192 23.2 19.4 29.2



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: 3.757 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

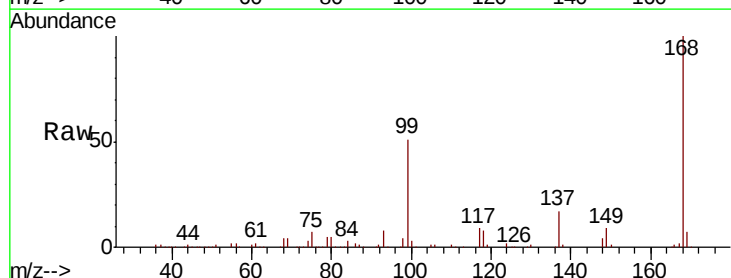
Tgt Ion: 75 Resp: 16076

Ion Ratio Lower Upper

75 100

110 9.1 18.0 54.0#

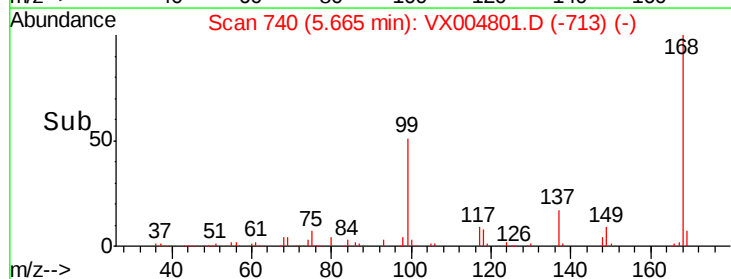
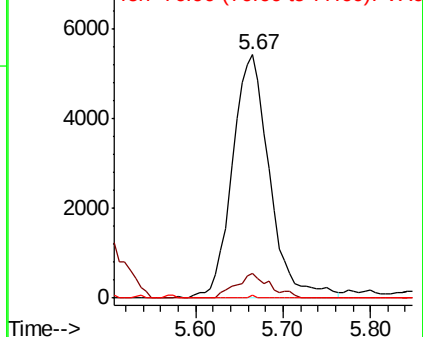
77 0.1 24.6 36.8#

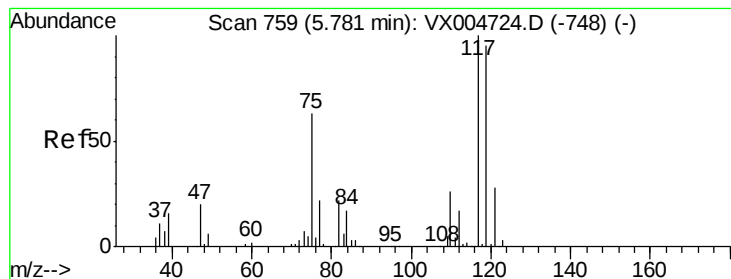


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.479 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

BB-TT-DUP05-20180918

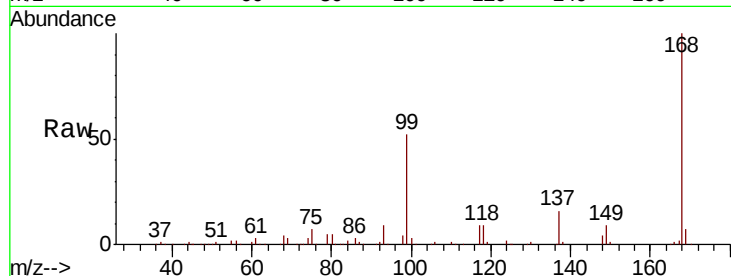
Tot Ion:117 Resp: 20145

Ion Ratio Lower Upper

117 100

119 6.1 78.8 118.2#

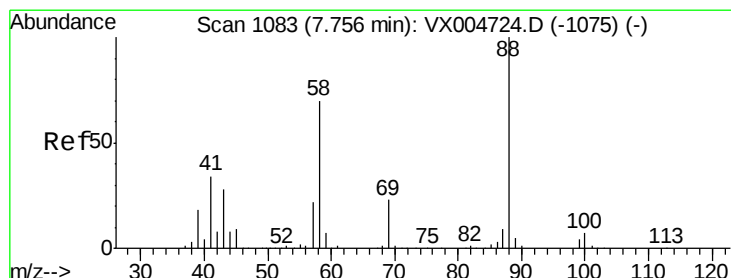
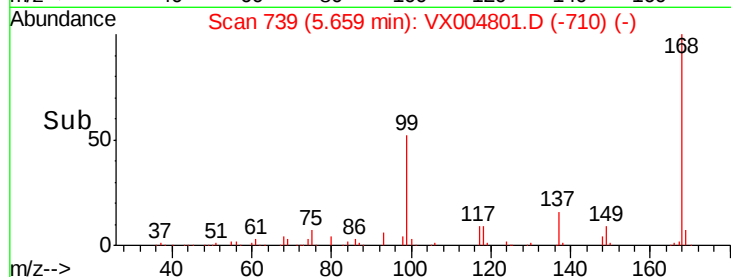
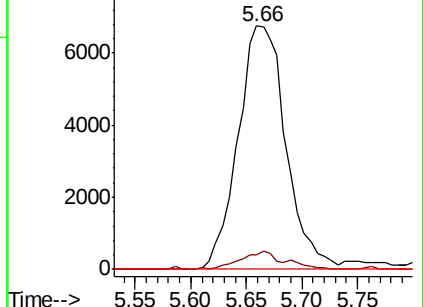
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: 0.206 ug/l

RT: 7.80 min Scan# 1090

Delta R.T. 0.04 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

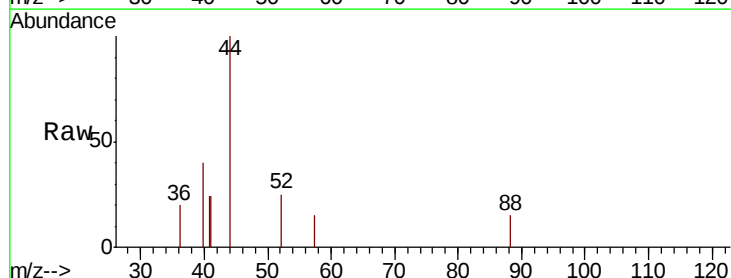
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 105.3 24.7 37.1#

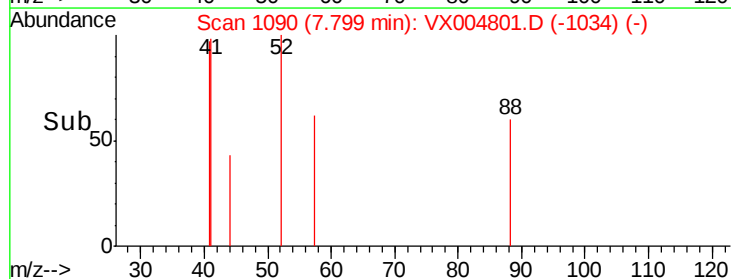
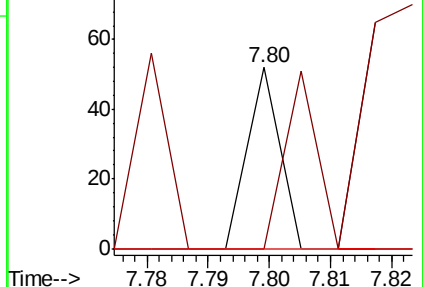
58 0.0 55.3 82.9#

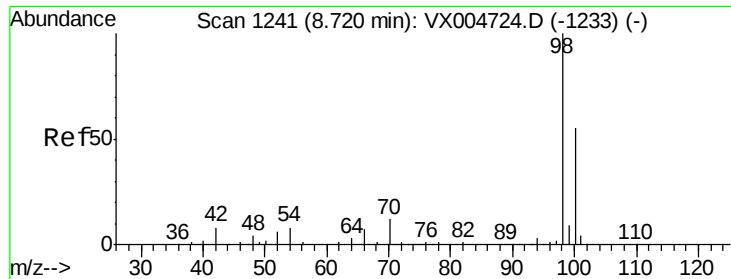


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

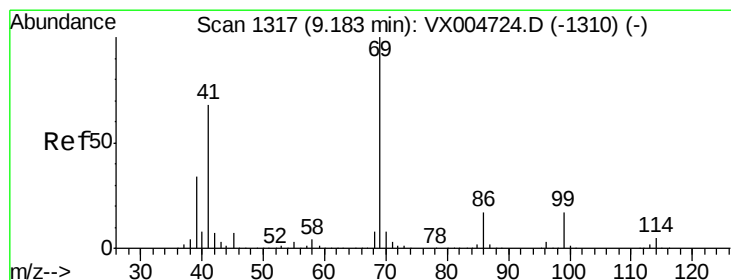
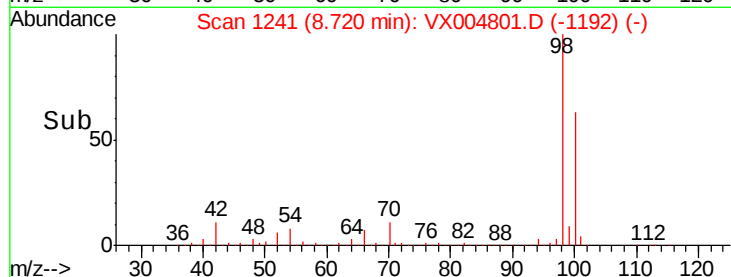
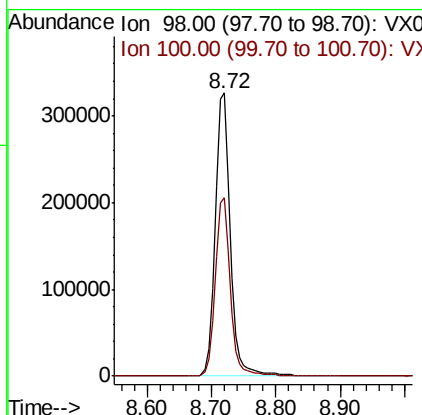
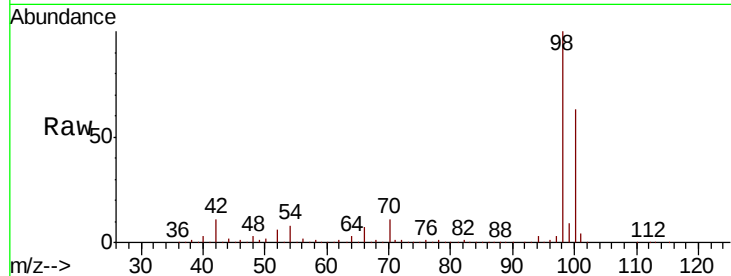




#50
Toluene-d8
Concen: 52.026 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004801.D
Acq: 28 Sep 2018 04:11

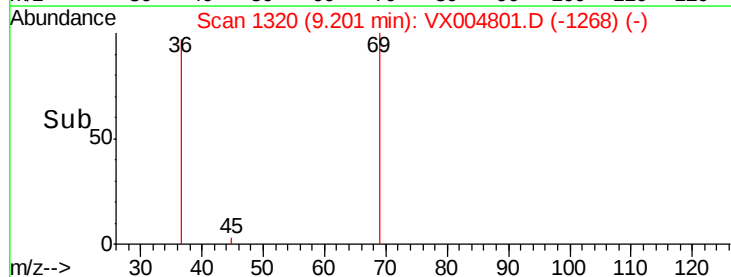
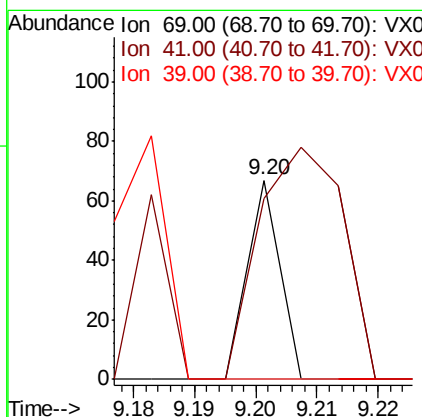
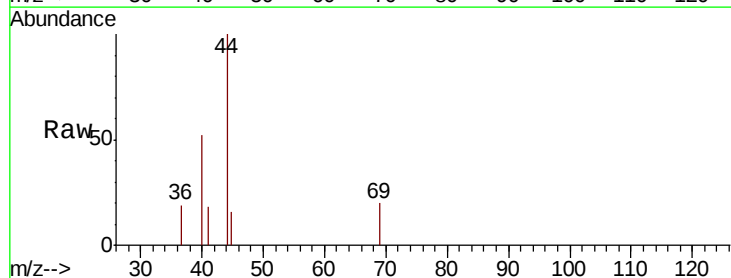
Instrument :
MSVOA_X
ClientSampleId :
BB-TT-DUP05-20180918

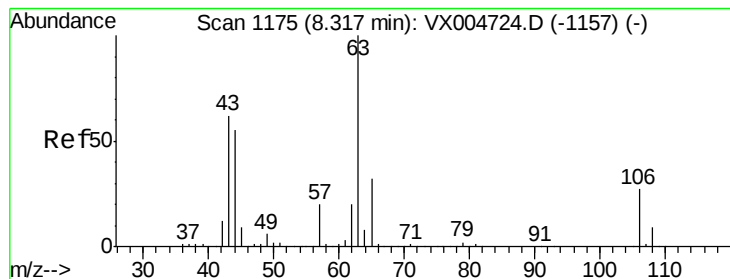
Tot Ion: 98 Resp: 542448
Ion Ratio Lower Upper
98 100
100 62.9 52.9 79.3



#56
Ethyl methacrylate
Concen: 2.867 ug/l
RT: 9.20 min Scan# 1320
Delta R.T. 0.02 min
Lab File: VX004801.D
Acq: 28 Sep 2018 04:11

Tgt Ion: 69 Resp: 25
Ion Ratio Lower Upper
69 100
41 300.0 51.0 76.4#
39 0.0 26.1 39.1#





#58

2-Chloroethyl Vinyl ether

Concen: 14.266 ug/l

RT: 8.48 min Scan# 1201

Delta R.T. 0.16 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

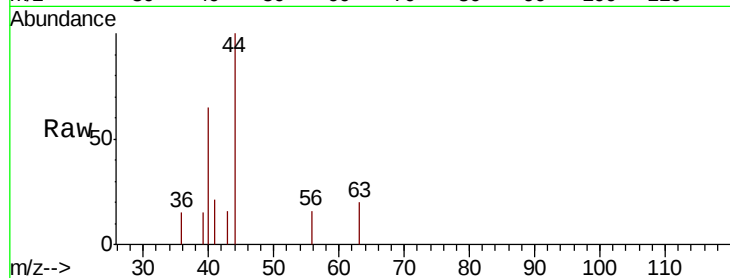
BB-TT-DUP05-20180918

Tot Ion: 63 Resp: 70

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.48

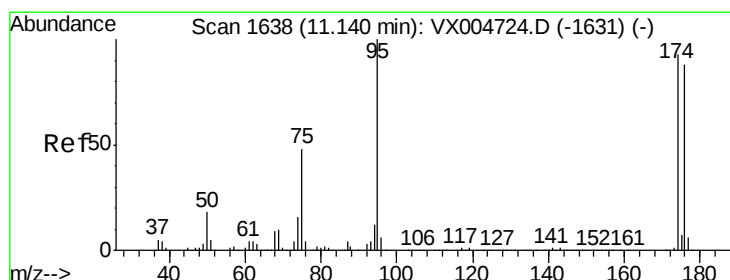
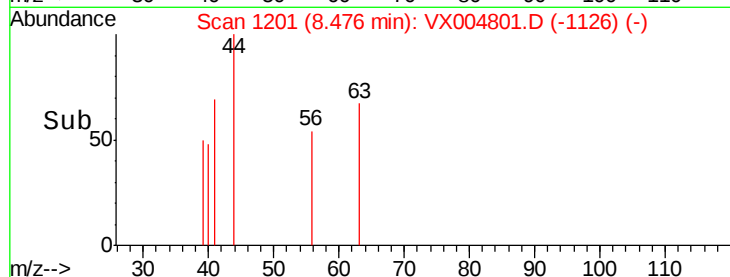
60

40

20

0

Time--> 8.44 8.46 8.48 8.50



#62

4-Bromofluorobenzene

Concen: 51.857 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

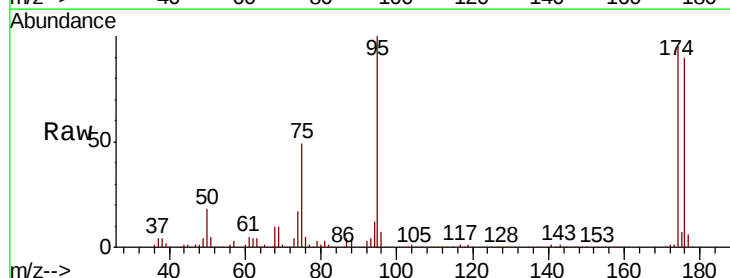
Tgt Ion: 95 Resp: 194785

Ion Ratio Lower Upper

95 100

174 92.4 0.0 185.2

176 87.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

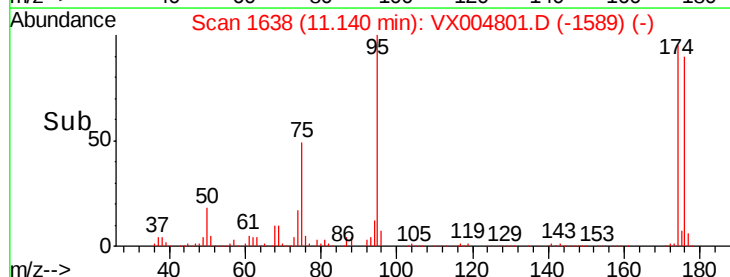
150000

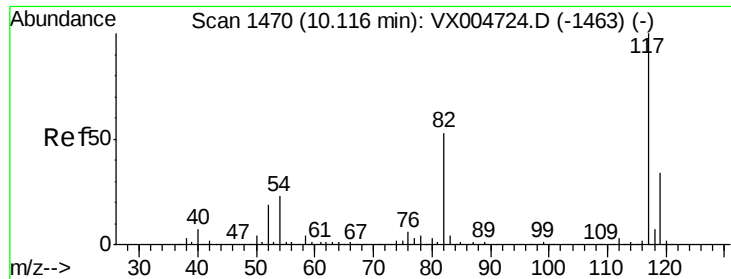
100000

50000

0

Time--> 11.10 11.20

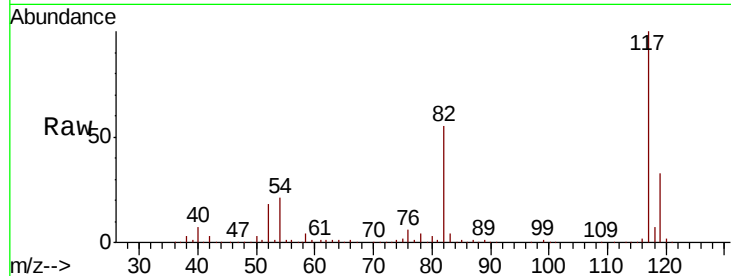




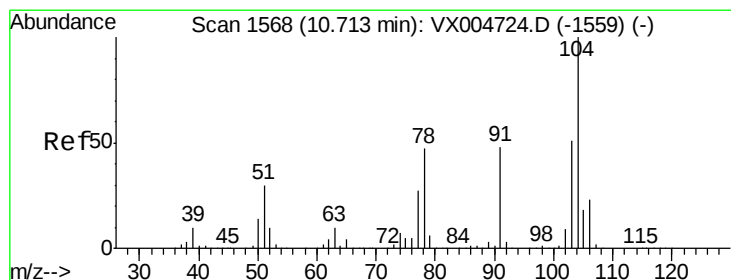
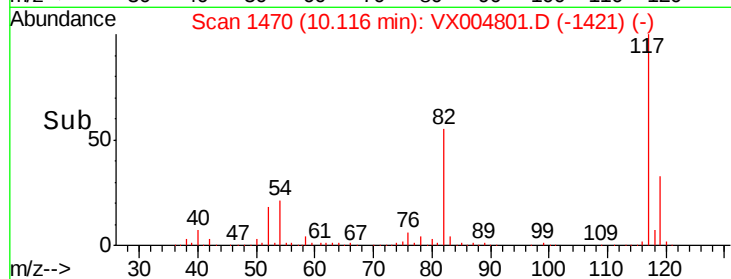
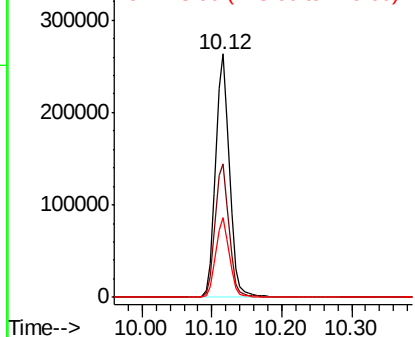
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004801.D
Acq: 28 Sep 2018 04:11

Instrument :
MSVOA_X
ClientSampleId :
BB-TT-DUP05-20180918

Tot Ion:117 Resp: 364177
Ion Ratio Lower Upper
117 100
82 54.7 47.8 71.6
119 32.8 29.3 43.9

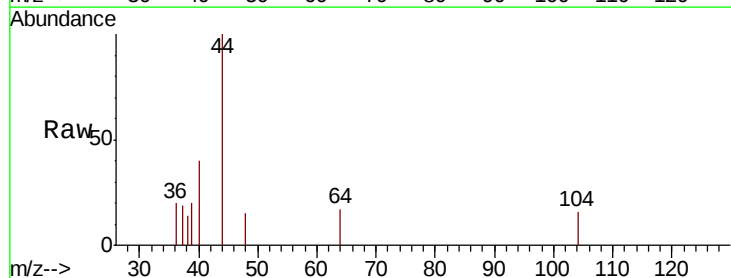


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

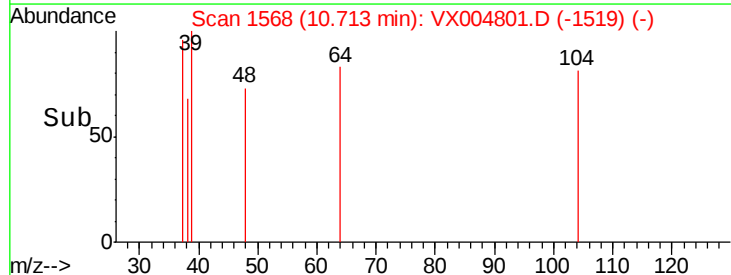
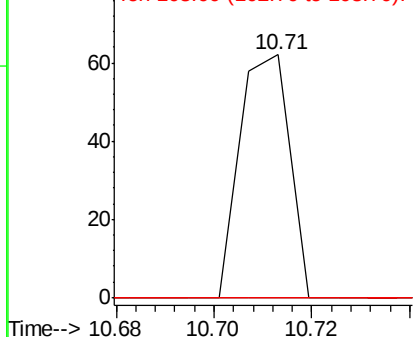


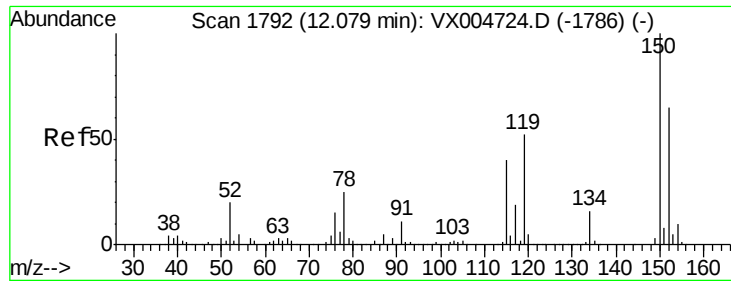
#70
Styrene
Concen: 2.145 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX004801.D
Acq: 28 Sep 2018 04:11

Tgt Ion:104 Resp: 44
Ion Ratio Lower Upper
104 100
78 0.0 37.4 56.0#
103 0.0 43.8 65.6#



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: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

BB-TT-DUP05-20180918

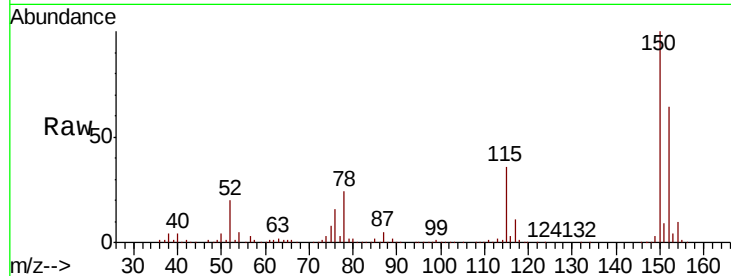
Tot Ion:152 Resp: 203371

Ion Ratio Lower Upper

152 100

115 55.8 39.0 117.0

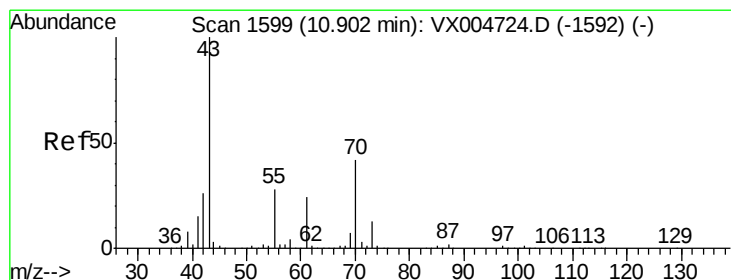
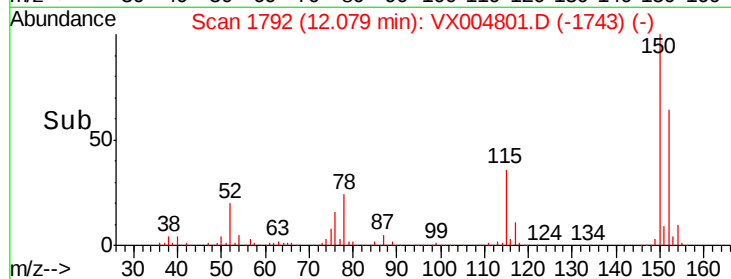
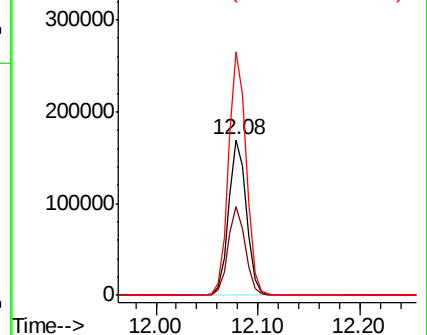
150 156.7 0.0 351.0



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: 1.755 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Tgt Ion: 43 Resp: 54

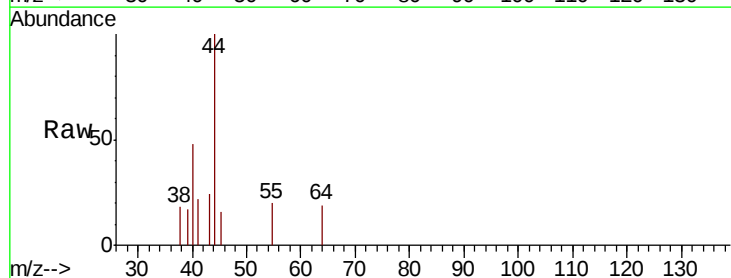
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 48.1 21.8 32.8#

61 0.0 20.6 30.8#

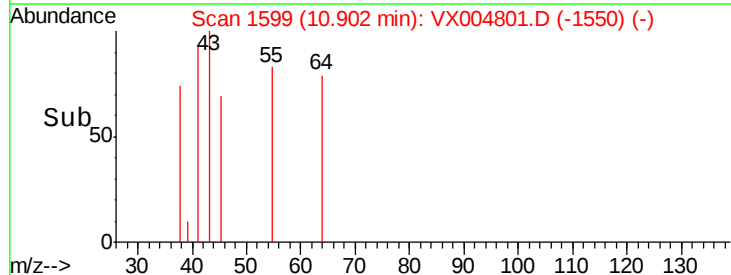
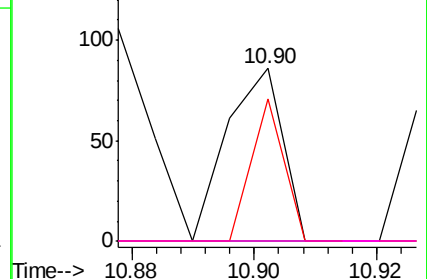


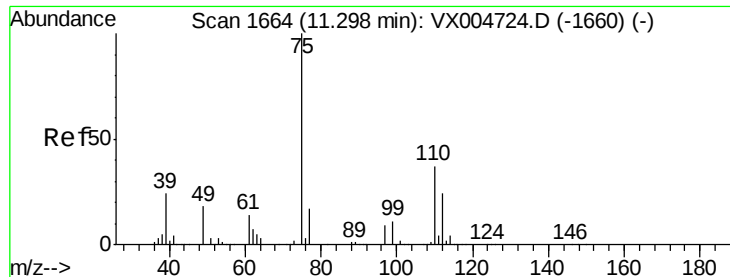
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.181 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

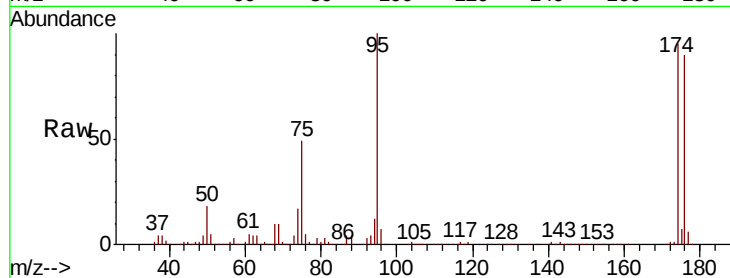
BB-TT-DUP05-20180918

Tot Ion: 75 Resp: 96548

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

80000

60000

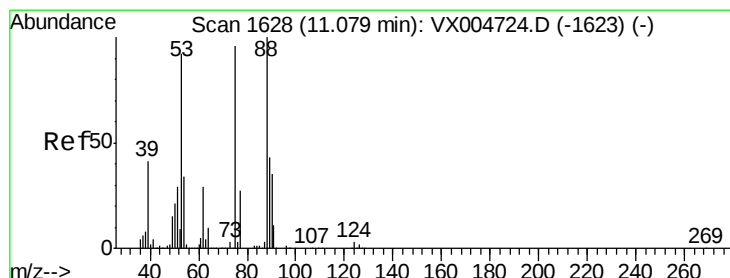
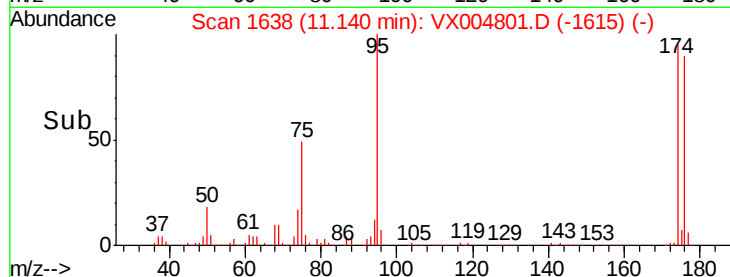
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 57.459 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

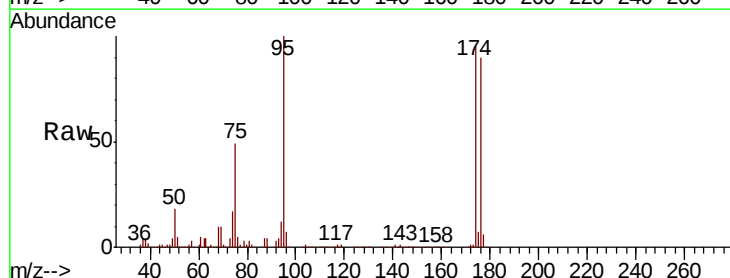
Tgt Ion: 75 Resp: 96548

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

100000

80000

60000

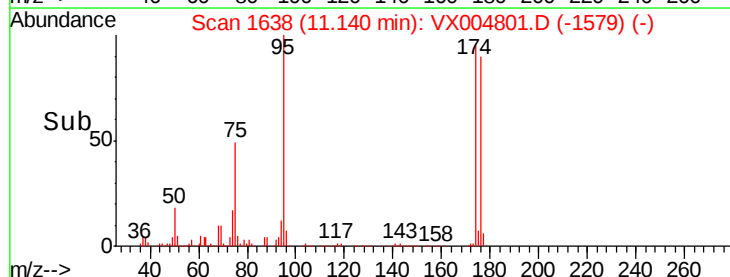
40000

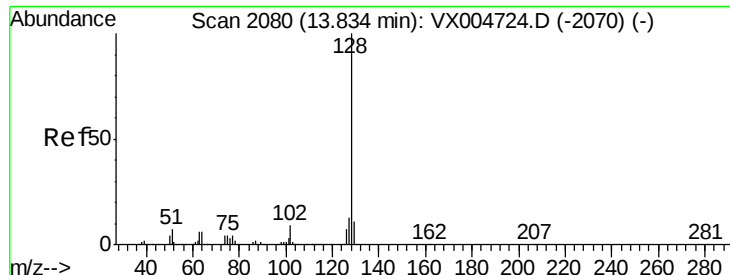
20000

0

11.10 11.20

Time-->





#95

Naphthalene

Concen: 0.734 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004801.D

Acq: 28 Sep 2018 04:11

Instrument :

MSVOA_X

ClientSampleId :

BB-TT-DUP05-20180918

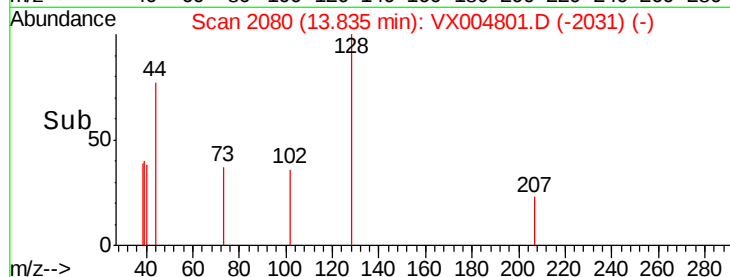
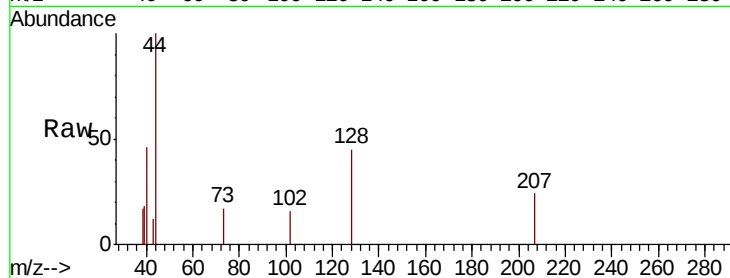
Tot Ion:128 Resp: 256

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

