

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112919\
 Data File : VX013701.D
 Acq On : 29 Nov 2019 15:13
 Operator : JC/SP
 Sample : K6069-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-3-WS

Quant Time: Nov 29 22:28:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	677192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1049532	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	928162	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	429496	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	375041	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
35) Dibromofluoromethane	5.49	113	311273	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
50) Toluene-d8	8.71	98	1233395	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	11.13	95	418223	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	

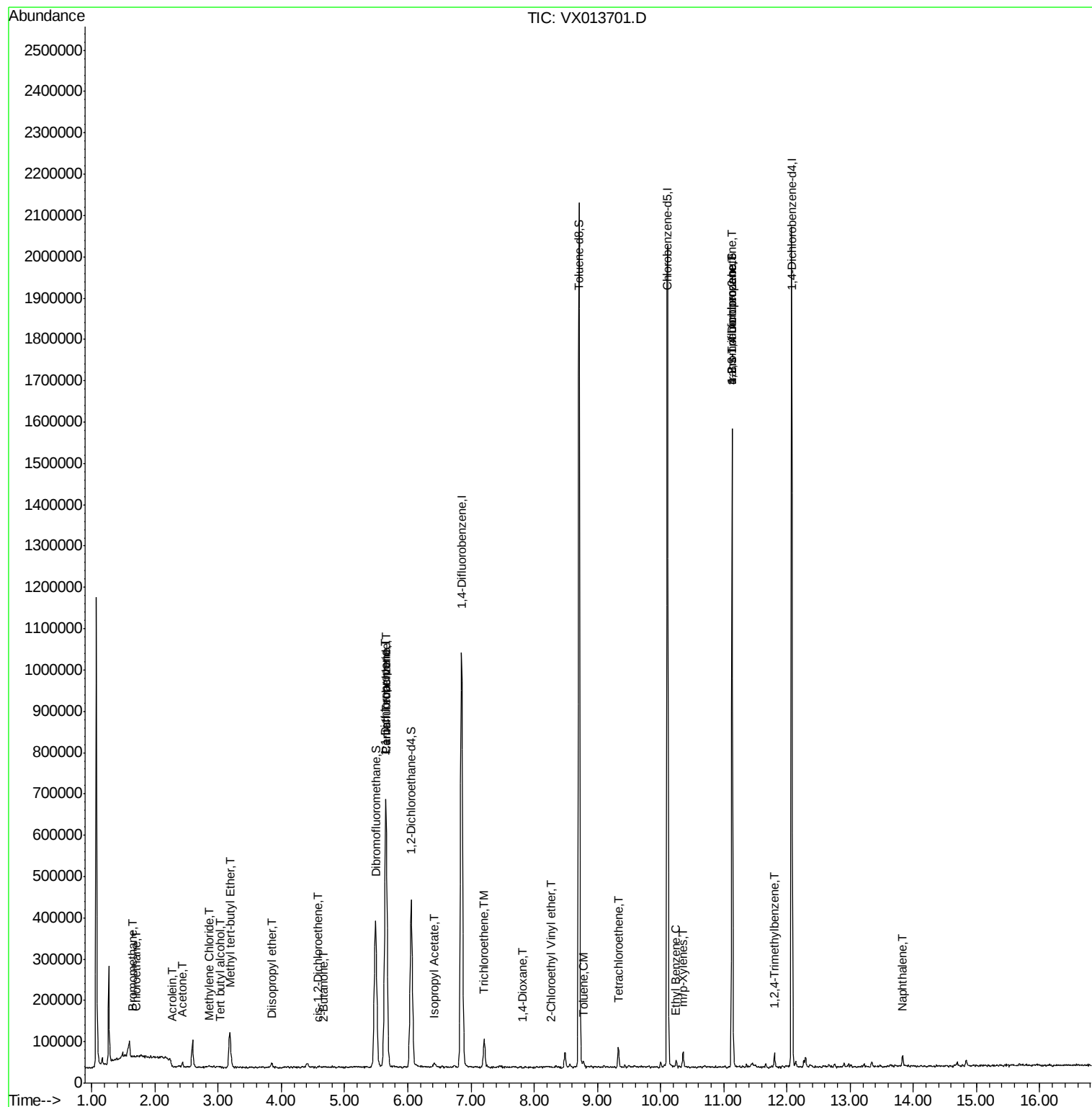
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1701	0.266	ug/l #	57
6) Chloroethane	1.71	64	1106	0.204	ug/l #	41
11) Tert butyl alcohol	3.03	59	5019	2.587	ug/l #	35
13) Acrolein	2.28	56	148	6.115	ug/l #	1
16) Acetone	2.44	43	13928	3.589	ug/l	99
19) Methyl tert-butyl Ether	3.19	73	98362	4.607	ug/l	96
20) Methylene Chloride	2.85	84	2501	0.335	ug/l #	73
22) Diisopropyl ether	3.85	45	9413	0.418	ug/l #	69
25) 2-Butanone	4.67	43	1291	0.224	ug/l #	1
27) cis-1,2-Dichloroethene	4.58	96	1829	0.227	ug/l	62
36) 1,1-Dichloropropene	5.64	75	46546	4.886	ug/l #	50
38) Carbon Tetrachloride	5.65	117	57778	6.577	ug/l #	18
43) Isopropyl Acetate	6.42	43	5808	0.330	ug/l #	26
44) Trichloroethene	7.21	130	28838	3.621	ug/l	93
49) 1,4-Dioxane	7.82	88	706	3.689	ug/l	88
52) Toluene	8.78	92	4836	0.268	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.28	63	1101	0.240	ug/l #	84
64) Tetrachloroethene	9.33	164	10294	1.487	ug/l	93
67) Ethyl Benzene	10.25	91	9910	0.299	ug/l	97
68) m/p-Xylenes	10.35	106	11320	0.893	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	204330	21.152	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	204330	57.868	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	16736	0.668	ug/l	88
95) Naphthalene	13.83	128	21941	0.754	ug/l #	93

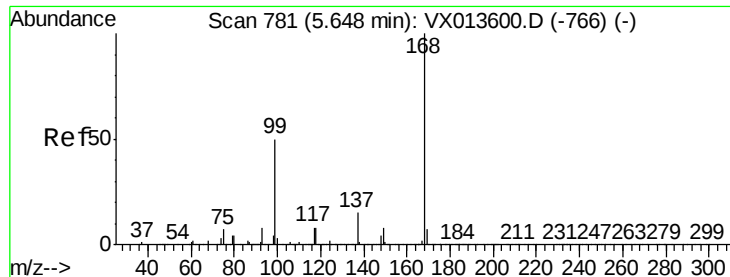
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX112919\
Data File : VX013701.D
Acq On : 29 Nov 2019 15:13
Operator : JC/SP
Sample : K6069-05
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SB-3-WS

Quant Time: Nov 29 22:28:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

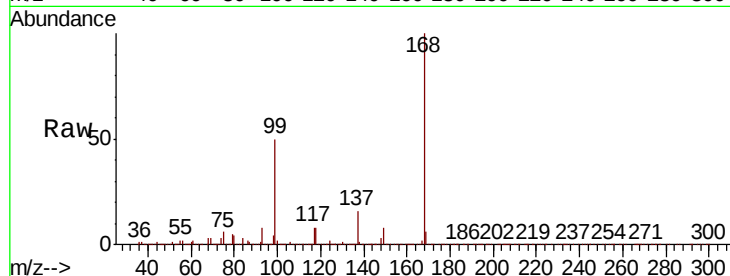
SB-3-WS

Tot Ion:168 Resp: 677192

Ion Ratio Lower Upper

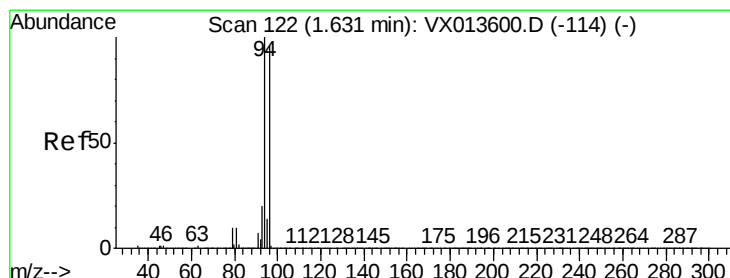
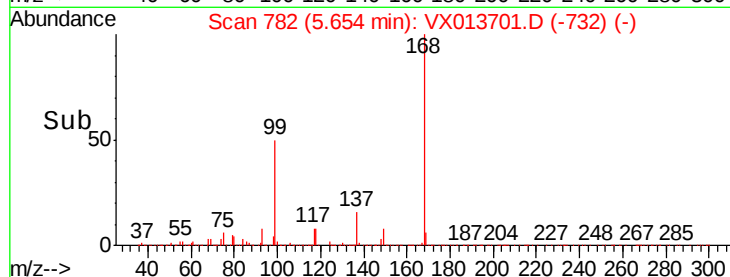
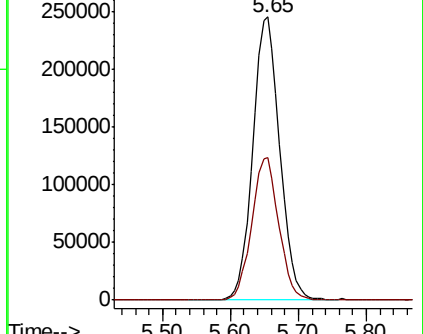
168 100

99 50.3 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.266 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013701.D

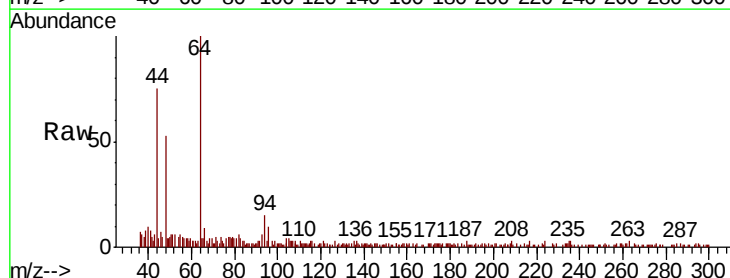
Acq: 29 Nov 2019 15:13

Tgt Ion: 94 Resp: 1701

Ion Ratio Lower Upper

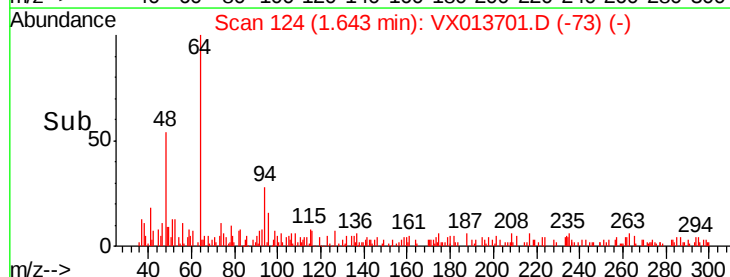
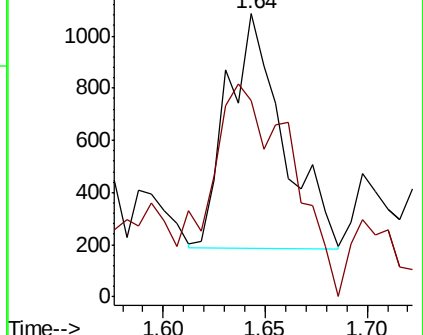
94 100

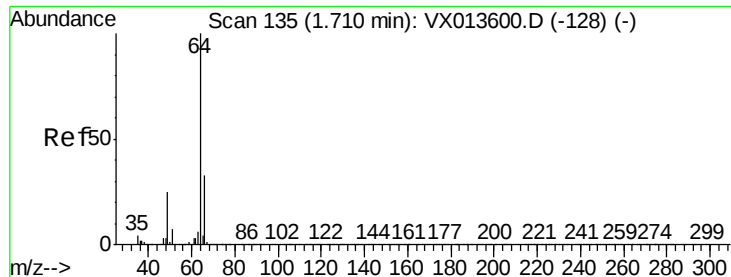
96 54.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.204 ug/l

RT: 1.71 min Scan# 135

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

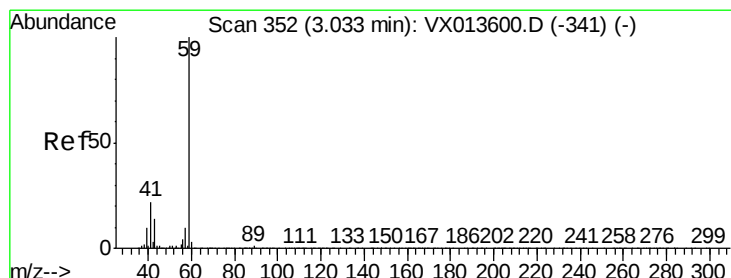
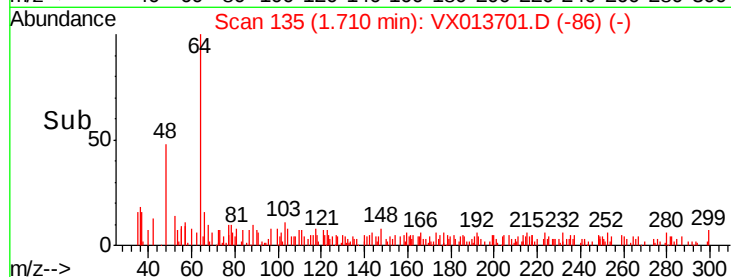
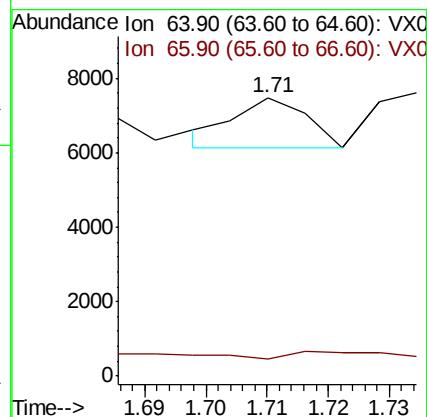
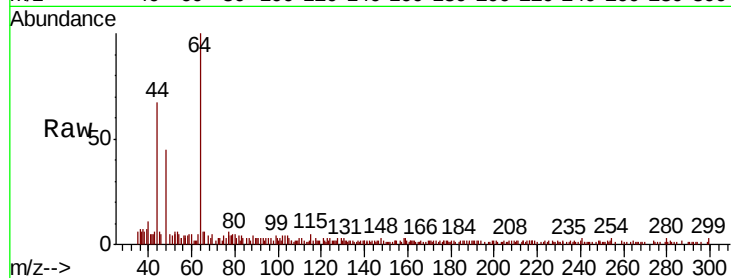
SB-3-WS

Tot Ion: 64 Resp: 1106

Ion Ratio Lower Upper

64 100

66 0.0 26.7 40.1#



#11

Tert butyl alcohol

Concen: 2.587 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX013701.D

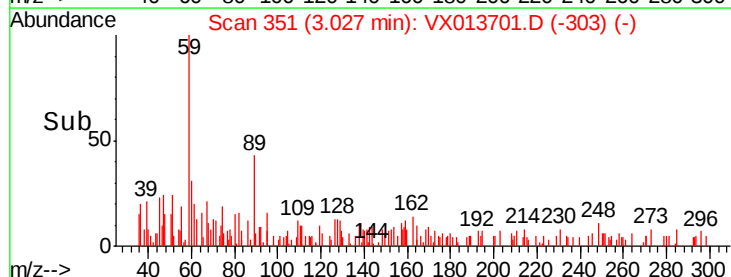
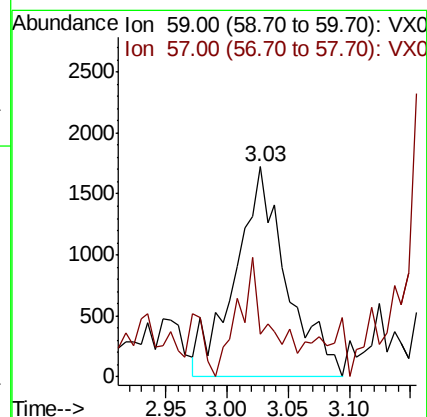
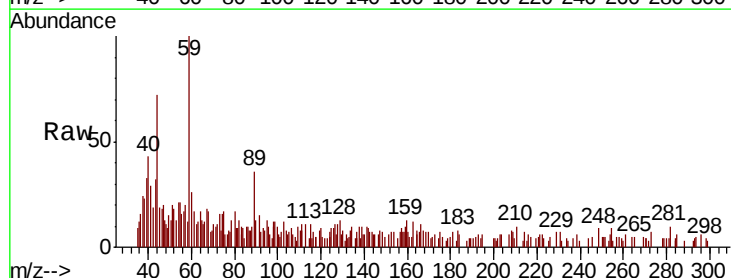
Acq: 29 Nov 2019 15:13

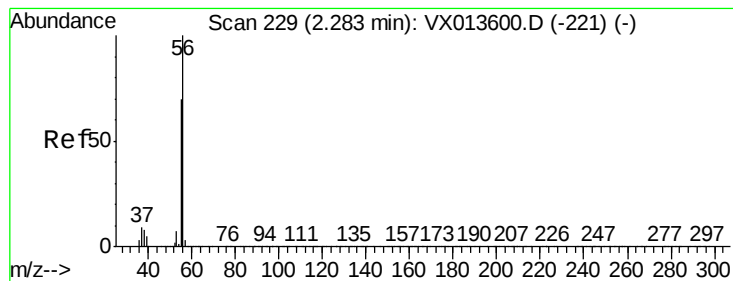
Tgt Ion: 59 Resp: 5019

Ion Ratio Lower Upper

59 100

57 33.8 7.8 11.6#





#13

Acrolein

Concen: 6.115 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

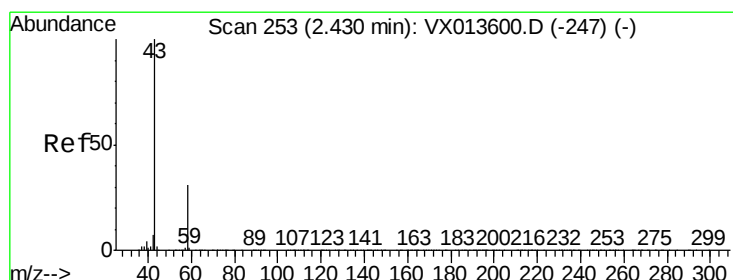
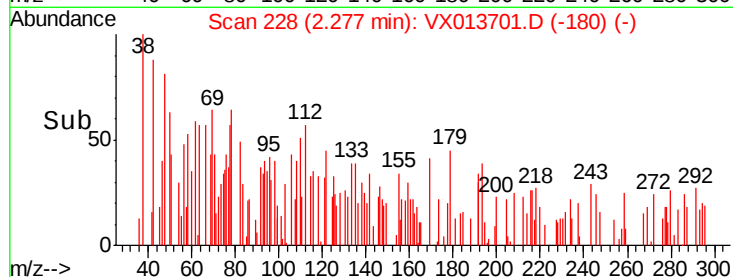
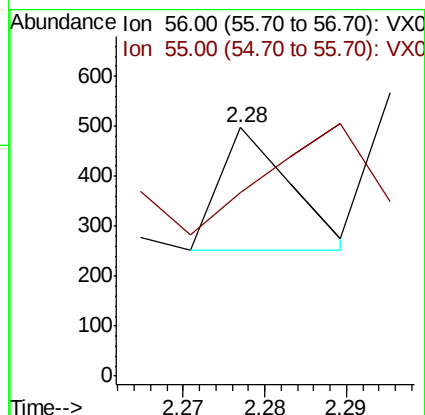
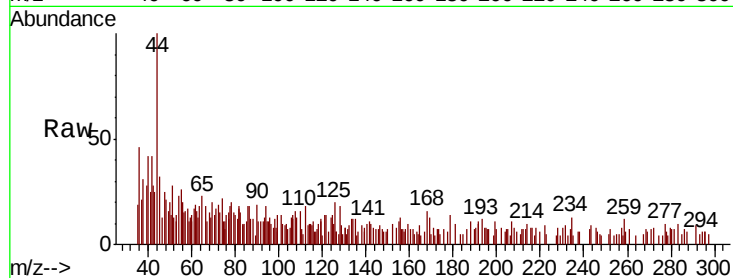
SB-3-WS

Tot Ion: 56 Resp: 148

Ion Ratio Lower Upper

56 100

55 203.4 56.2 84.4#



#16

Acetone

Concen: 3.589 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013701.D

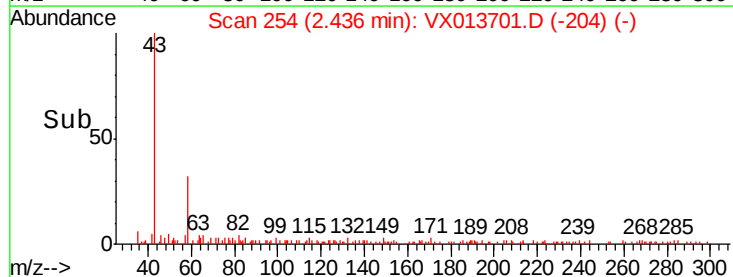
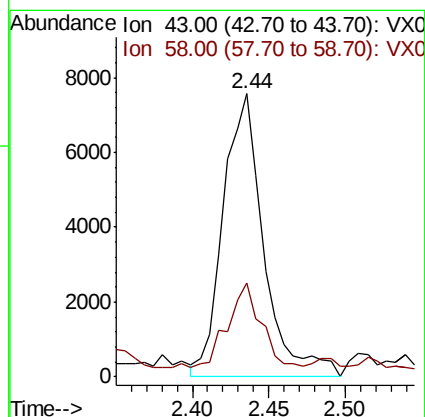
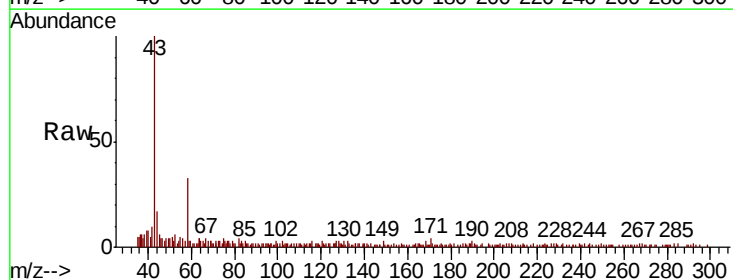
Acq: 29 Nov 2019 15:13

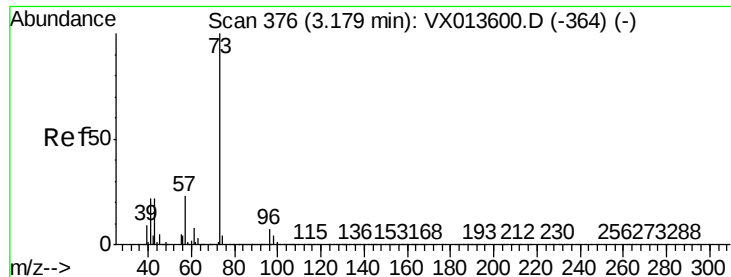
Tgt Ion: 43 Resp: 13928

Ion Ratio Lower Upper

43 100

58 29.9 24.6 36.8

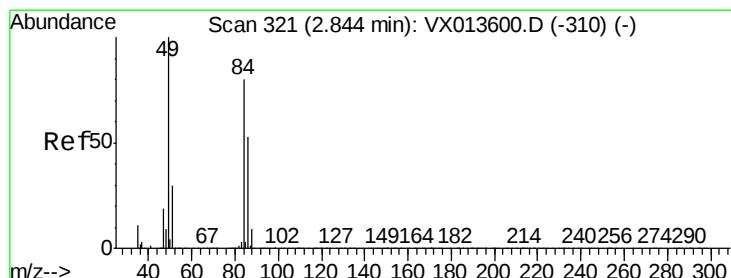
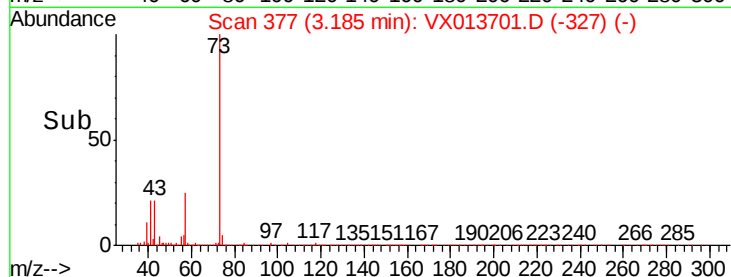
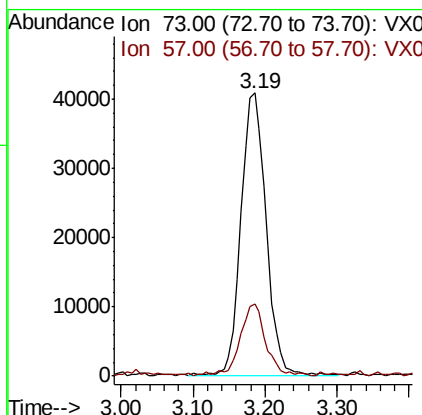
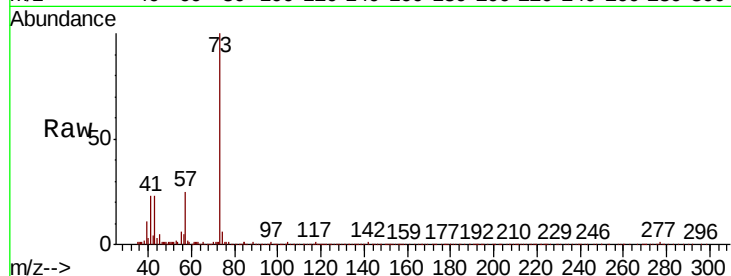




#19
Methyl tert-butyl Ether
Concen: 4.607 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013701.D
Acq: 29 Nov 2019 15:13

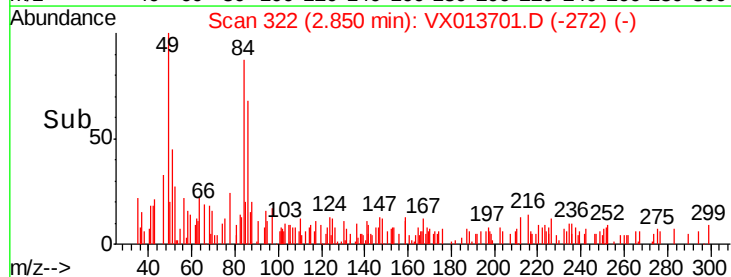
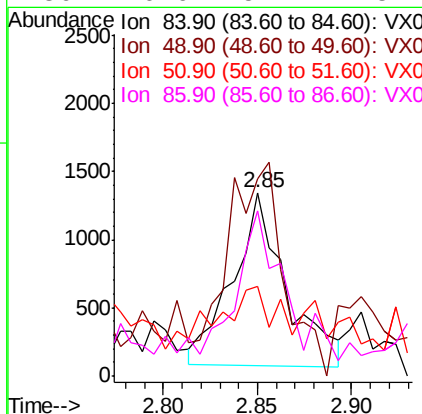
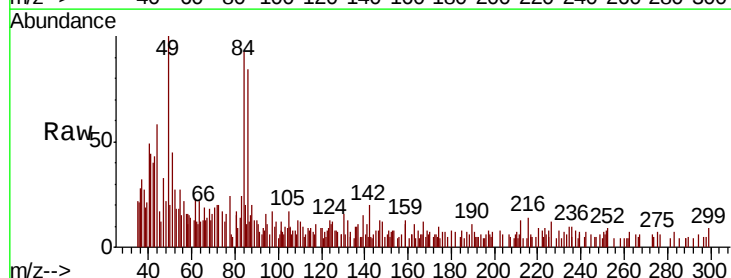
Instrument :
MSVOA_X
ClientSampleId :
SB-3-WS

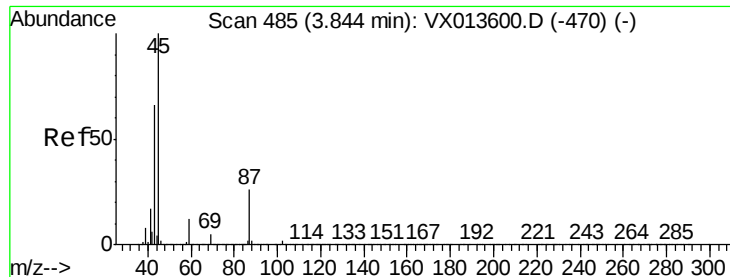
Tot Ion: 73 Resp: 98362
Ion Ratio Lower Upper
73 100
57 24.7 18.3 27.5



#20
Methylene Chloride
Concen: 0.335 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013701.D
Acq: 29 Nov 2019 15:13

Tgt Ion: 84 Resp: 2501
Ion Ratio Lower Upper
84 100
49 83.6 99.7 149.5#
51 26.9 29.9 44.9#
86 76.6 52.2 78.4





#22

Diisopropyl ether

Concen: 0.418 ug/l

RT: 3.85 min Scan# 486

Delta R.T. 0.01 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

SB-3-WS

Tot Ion: 45 Resp: 9413

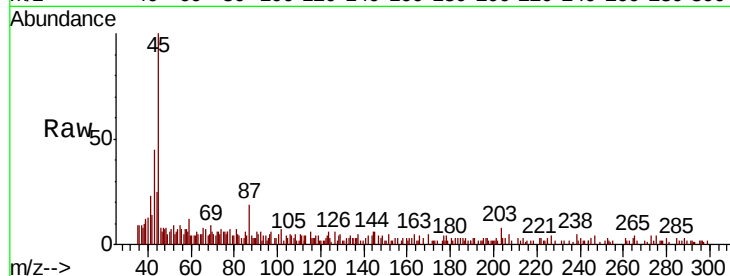
Ion Ratio Lower Upper

45 100

43 36.6 52.6 79.0#

87 14.1 21.1 31.7#

59 6.4 9.2 13.8#



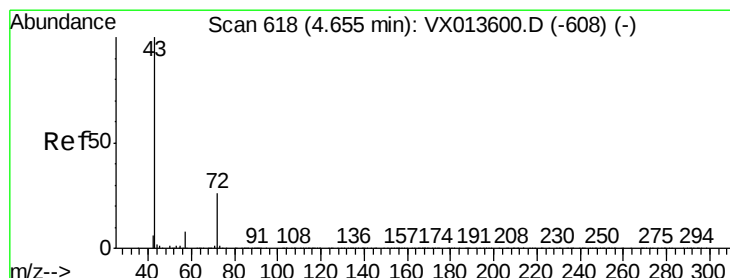
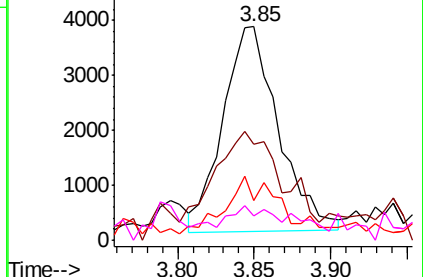
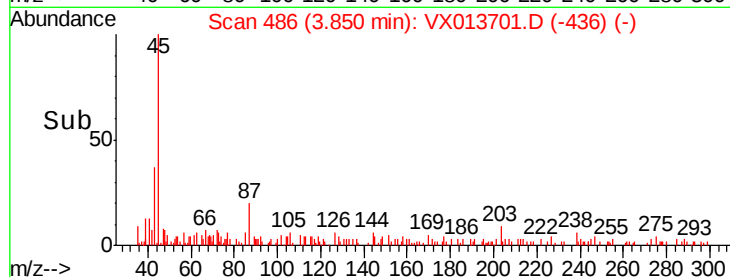
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

Time-->



#25

2-Butanone

Concen: 0.224 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013701.D

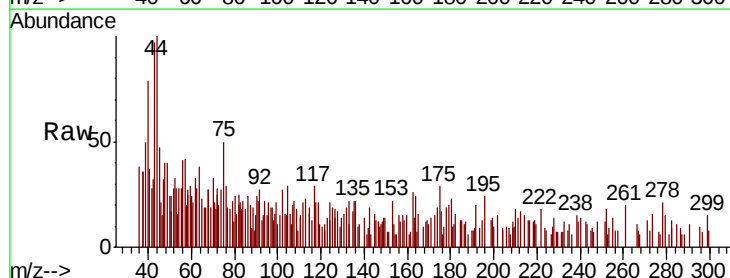
Acq: 29 Nov 2019 15:13

Tgt Ion: 43 Resp: 1291

Ion Ratio Lower Upper

43 100

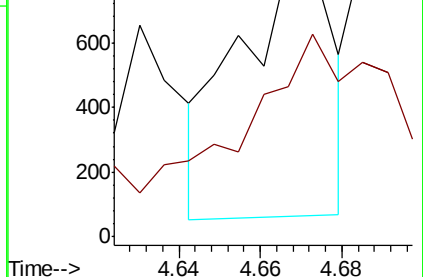
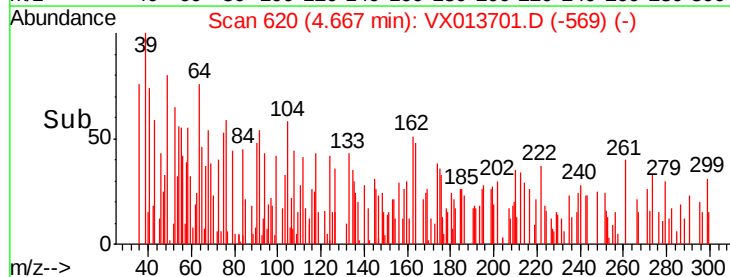
72 93.6 20.6 31.0#

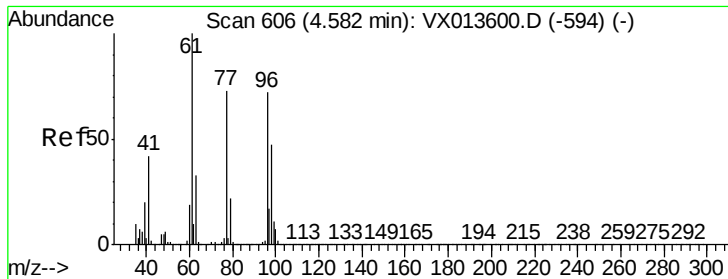


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->



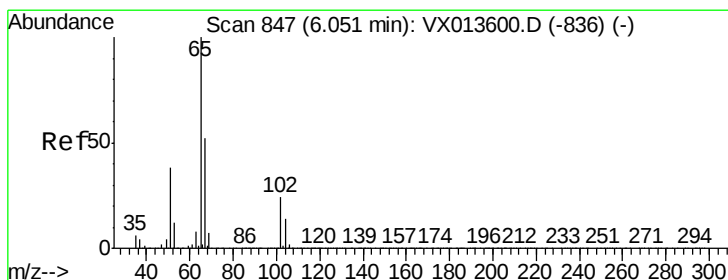
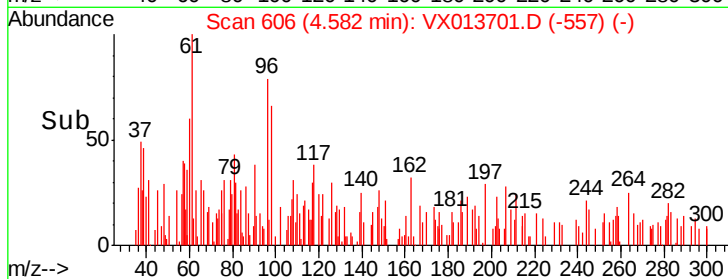
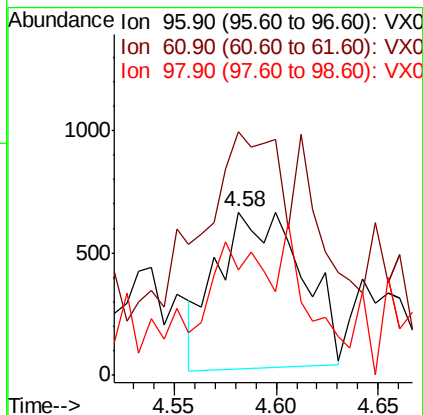
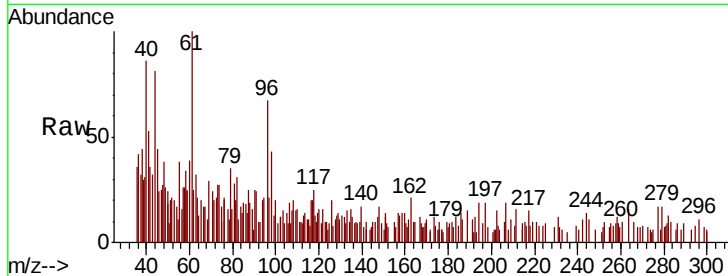


#27

cis-1,2-Dichloroethene
Concen: 0.227 ug/l
RT: 4.58 min Scan# 606
Delta R.T. -0.00 min
Lab File: VX013701.D
Acq: 29 Nov 2019 15:13

Instrument :
MSVOA_X
ClientSampled :
SB-3-WS

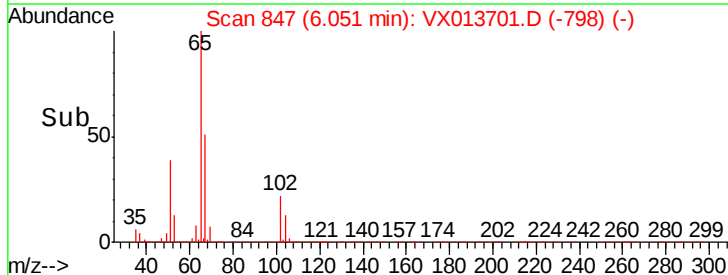
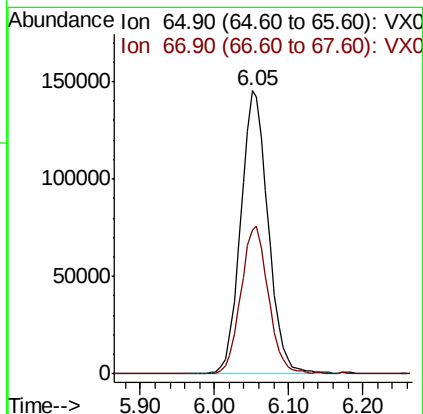
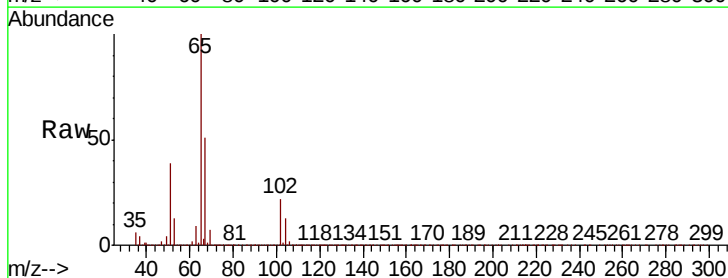
Tot Ion	96	Resp:	1829
Ion	Ratio	Lower	Upper
96	100		
61	92.6	0.0	286.4
98	39.7	0.0	127.4

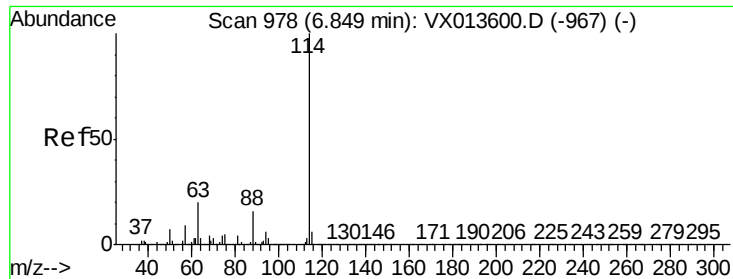


#33

1,2-Dichloroethane-d4
Concen: 47.711 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX013701.D
Acq: 29 Nov 2019 15:13

Tgt Ion	65	Resp:	375041
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

SB-3-WS

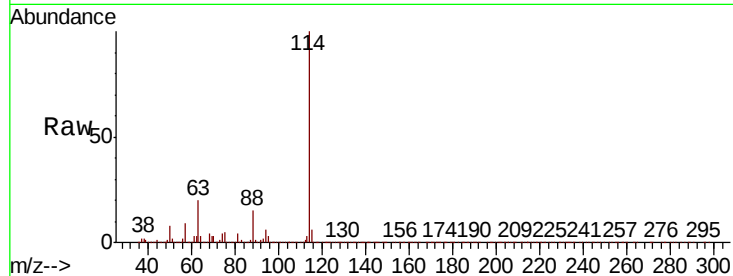
Tot Ion:114 Resp: 1049532

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

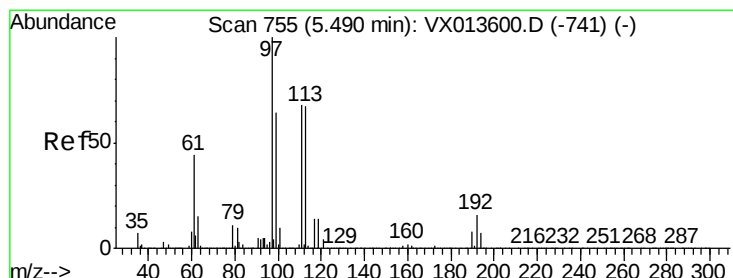
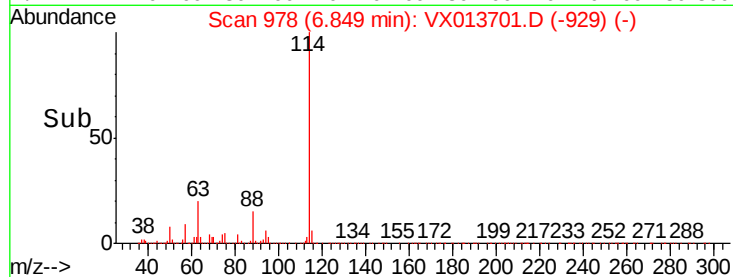
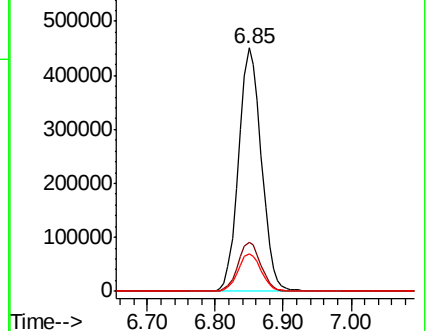
88 15.4 0.0 31.4



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: 47.974 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

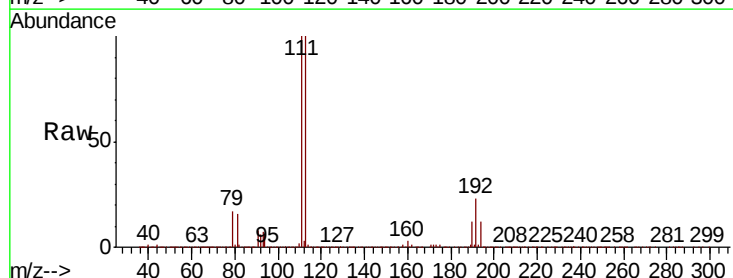
Tgt Ion:113 Resp: 311273

Ion Ratio Lower Upper

113 100

111 100.1 83.6 125.4

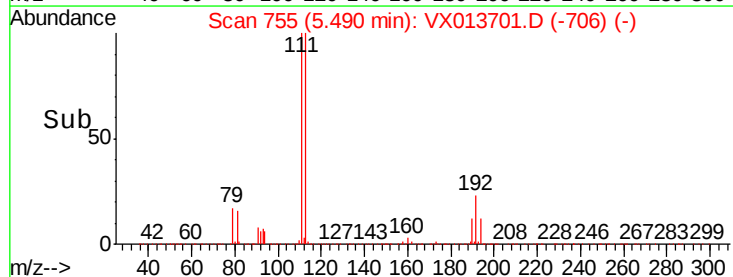
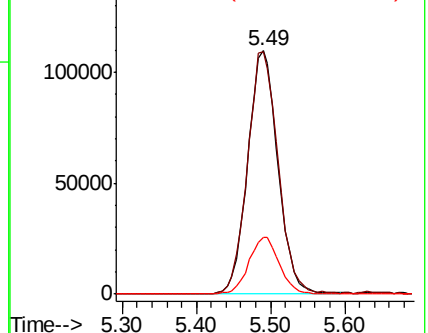
192 23.7 19.2 28.8

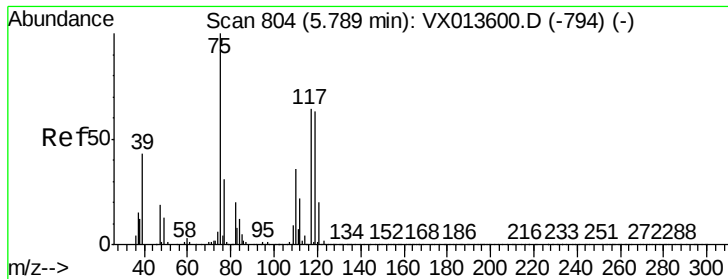


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

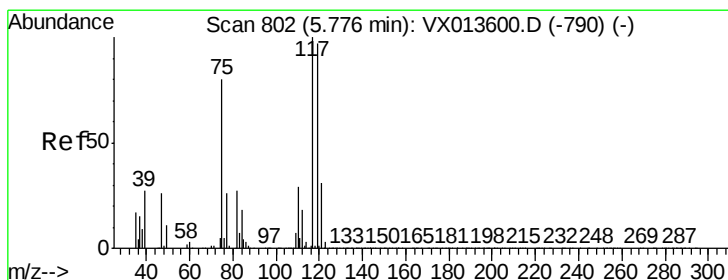
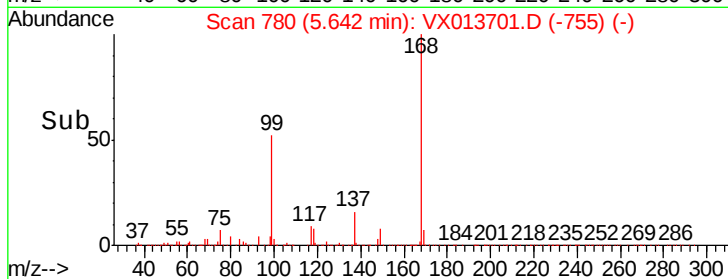
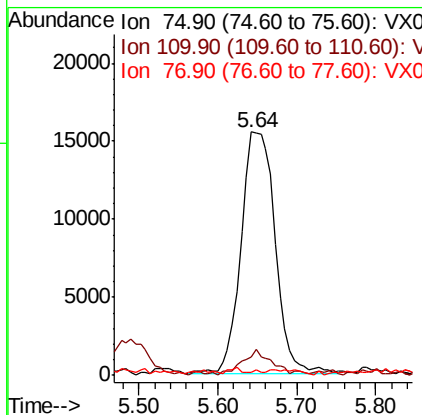
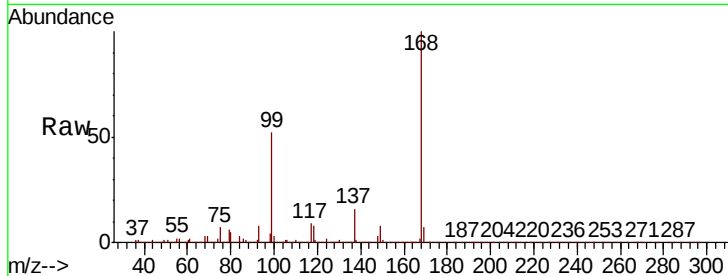




#36
 1,1-Dichloropropene
 Concen: 4.886 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.15 min
 Lab File: VX013701.D
 Acq: 29 Nov 2019 15:13

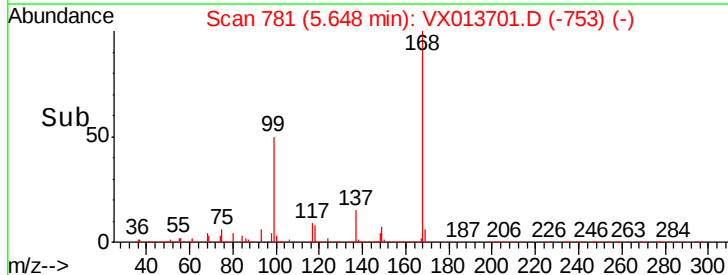
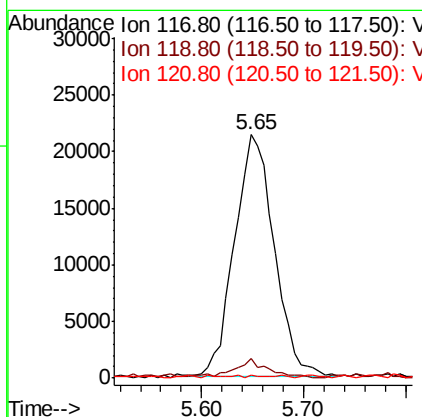
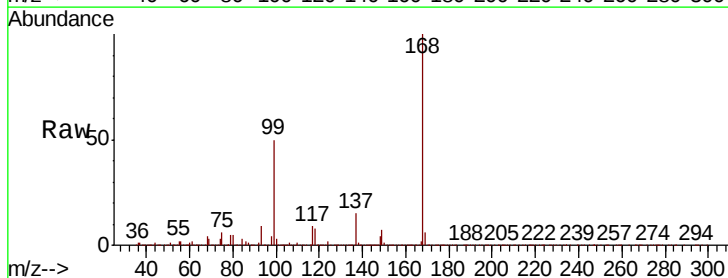
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-3-WS

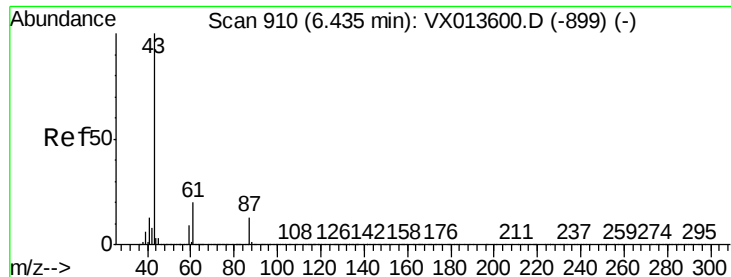
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.1#
77	0.2	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.577 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX013701.D
 Acq: 29 Nov 2019 15:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.4	77.5	116.3#
121	0.6	25.0	37.6#





#43

Isopropyl Acetate

Concen: 0.330 ug/l

RT: 6.42 min Scan# 908

Delta R.T. -0.01 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

SB-3-WS

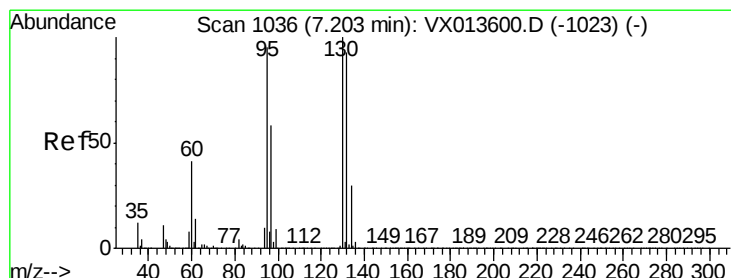
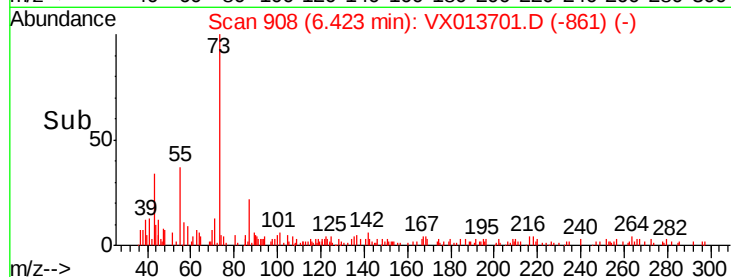
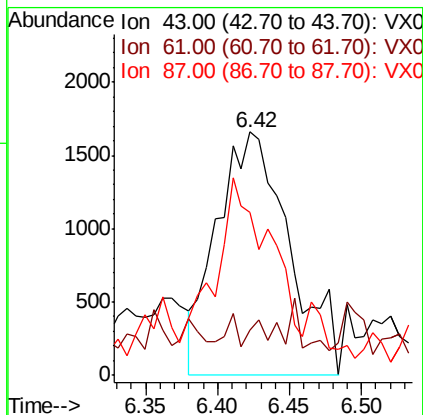
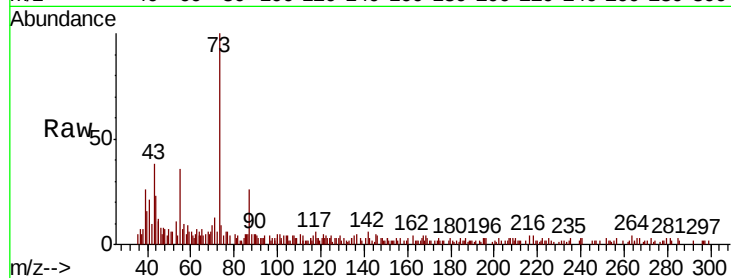
Tot Ion: 43 Resp: 5808

Ion Ratio Lower Upper

43 100

61 2.0 16.3 24.5#

87 64.2 10.8 16.2#



#44

Trichloroethene

Concen: 3.621 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013701.D

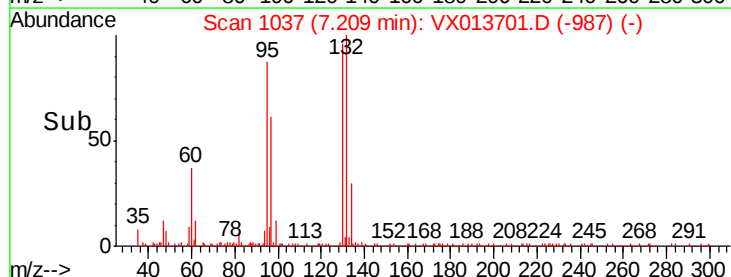
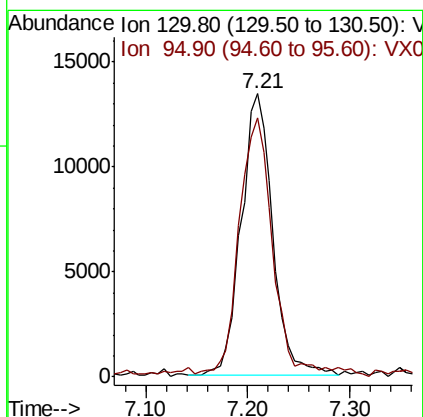
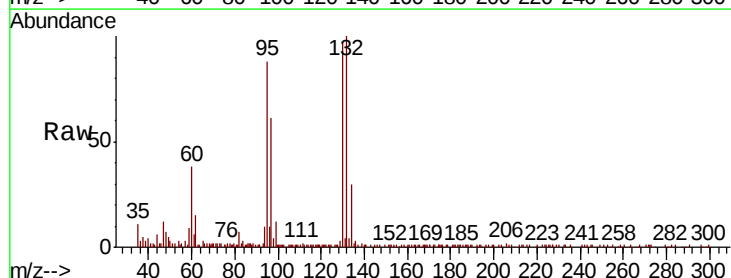
Acq: 29 Nov 2019 15:13

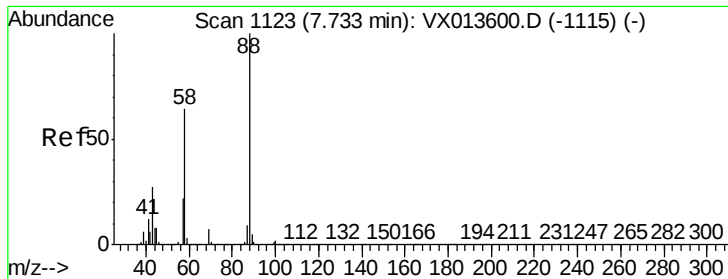
Tgt Ion: 130 Resp: 28838

Ion Ratio Lower Upper

130 100

95 88.5 0.0 190.8

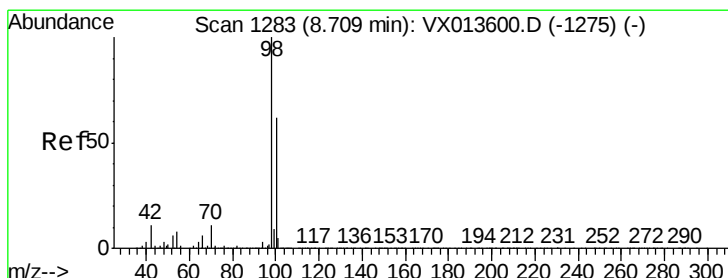
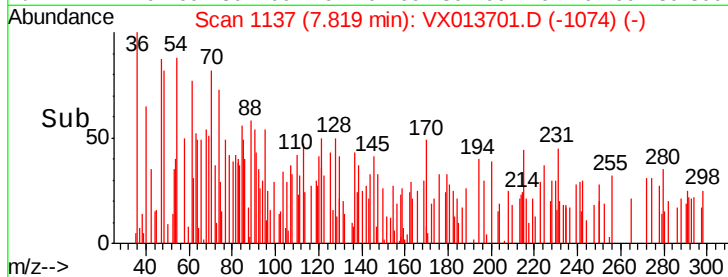
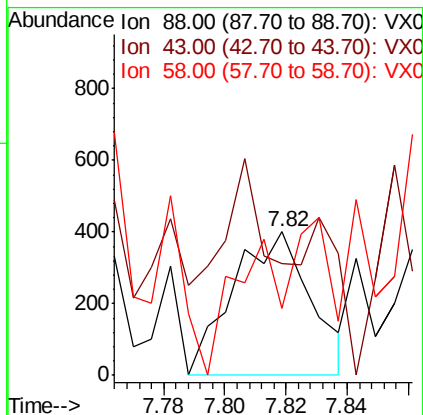
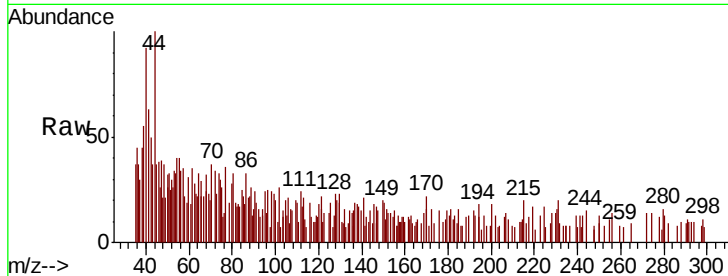




#49
1,4-Dioxane
Concen: 3.689 ug/l
RT: 7.82 min Scan# 1137
Delta R.T. 0.09 min
Lab File: VX013701.D
Acq: 29 Nov 2019 15:13

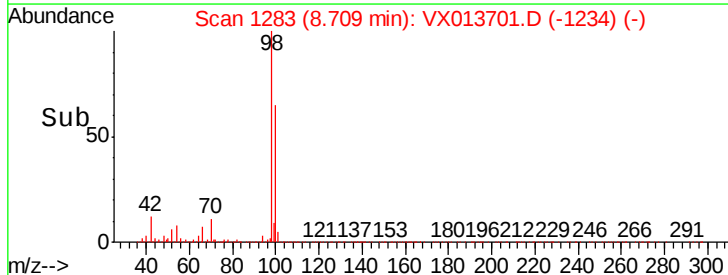
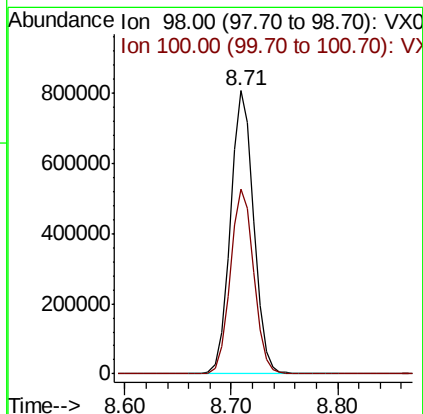
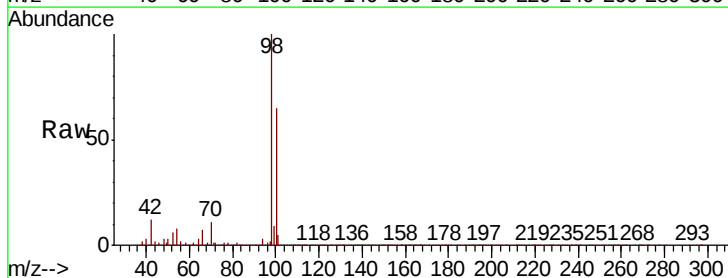
Instrument :
MSVOA_X
ClientSampleId :
SB-3-WS

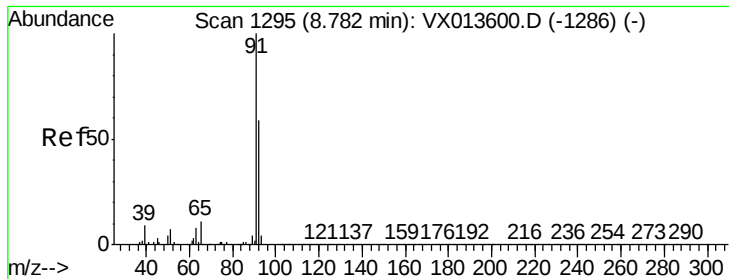
Tot Ion: 88 Resp: 706
Ion Ratio Lower Upper
88 100
43 37.3 25.8 38.6
58 57.1 54.6 82.0



#50
Toluene-d8
Concen: 48.791 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013701.D
Acq: 29 Nov 2019 15:13

Tgt Ion: 98 Resp: 1233395
Ion Ratio Lower Upper
98 100
100 65.8 53.1 79.7





#52

Toluene

Concen: 0.268 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

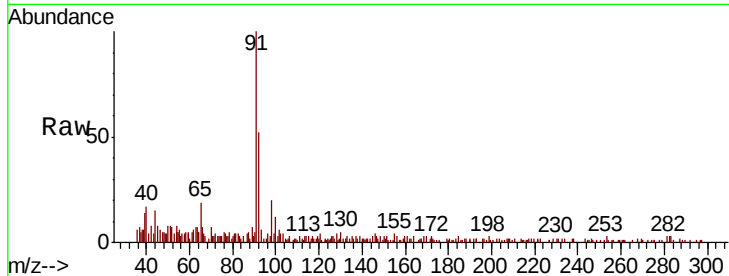
SB-3-WS

Tot Ion: 92 Resp: 4836

Ion Ratio Lower Upper

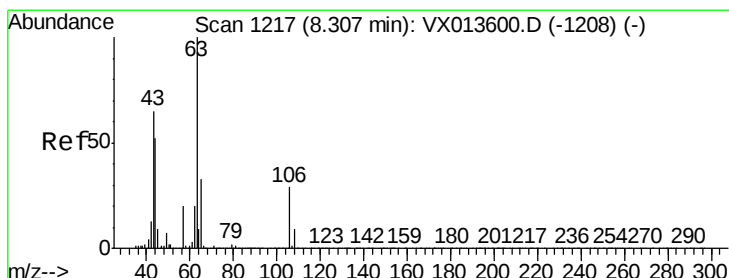
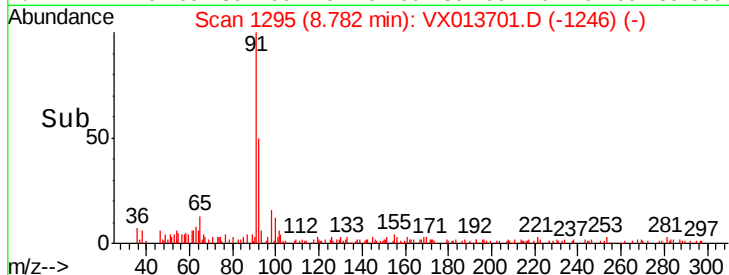
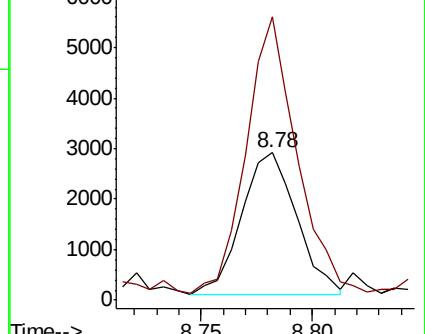
92 100

91 182.6 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 0.240 ug/l

RT: 8.28 min Scan# 1213

Delta R.T. -0.02 min

Lab File: VX013701.D

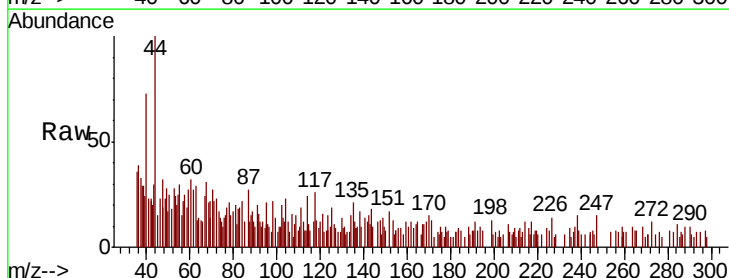
Acq: 29 Nov 2019 15:13

Tgt Ion: 63 Resp: 1101

Ion Ratio Lower Upper

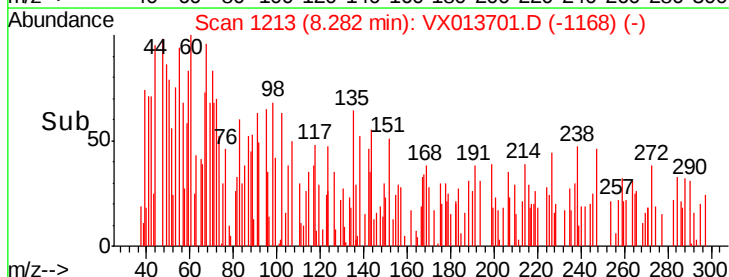
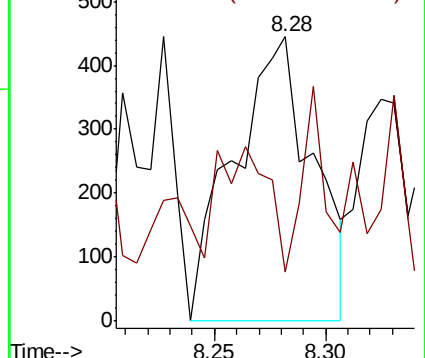
63 100

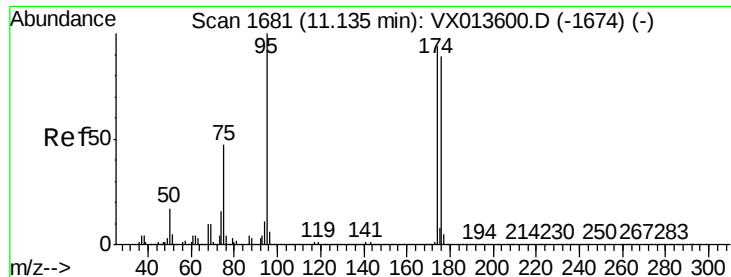
106 20.5 23.4 35.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 45.879 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

SB-3-WS

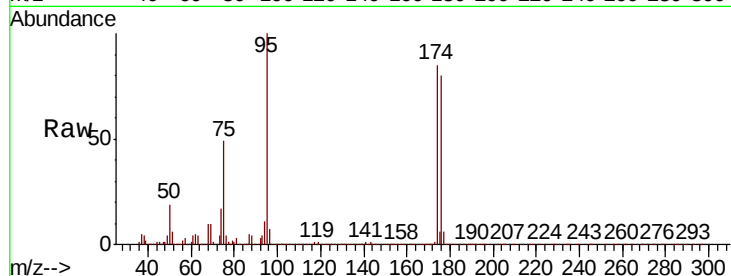
Tot Ion: 95 Resp: 418223

Ion Ratio Lower Upper

95 100

174 90.4 0.0 180.0

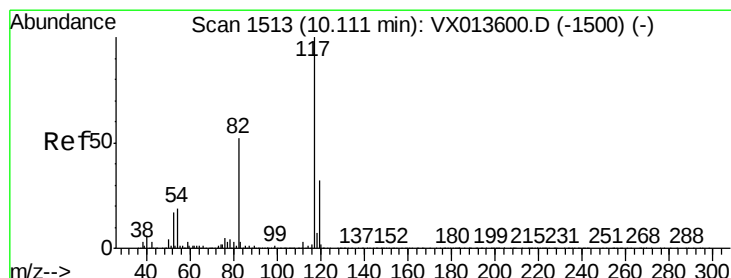
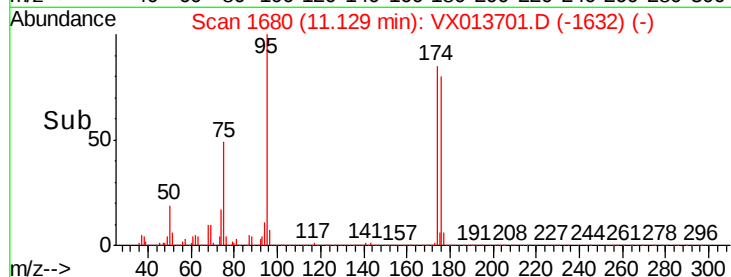
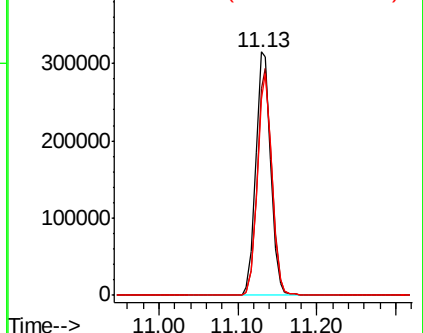
176 88.2 0.0 173.6



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

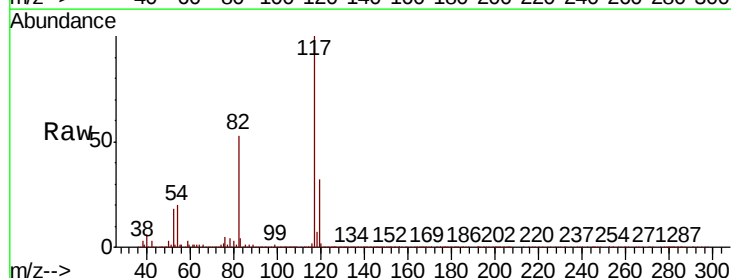
Tgt Ion: 117 Resp: 928162

Ion Ratio Lower Upper

117 100

82 53.0 41.8 62.8

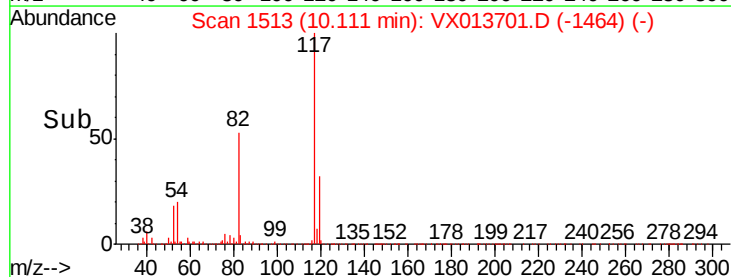
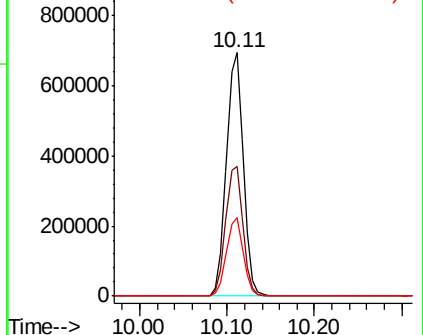
119 32.0 25.8 38.8

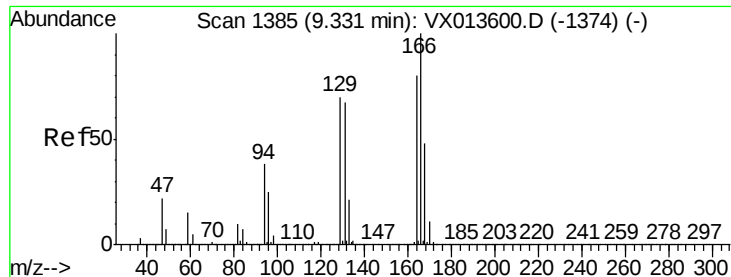


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.487 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

SB-3-WS

Tot Ion:164 Resp: 10294

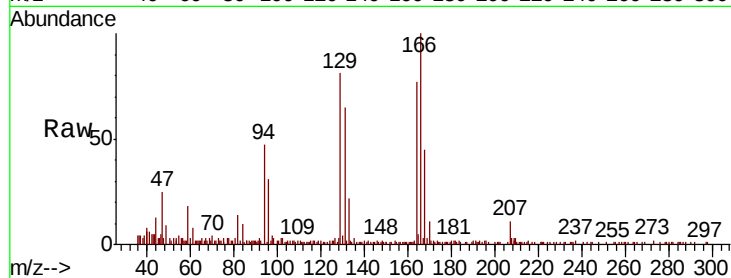
Ion Ratio Lower Upper

164 100

166 128.4 99.7 149.5

129 104.1 70.1 105.1

131 83.1 66.9 100.3

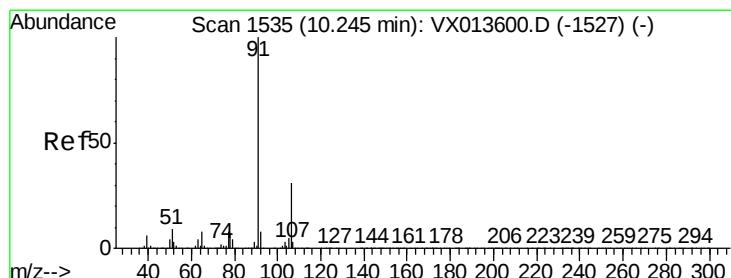
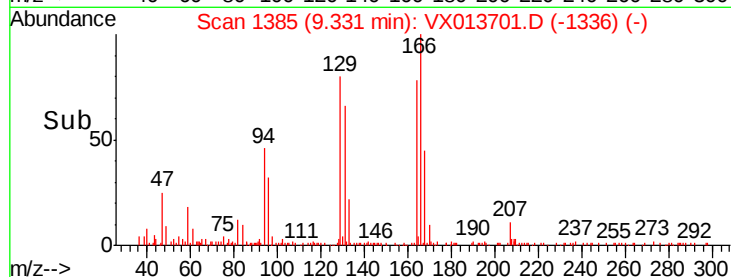
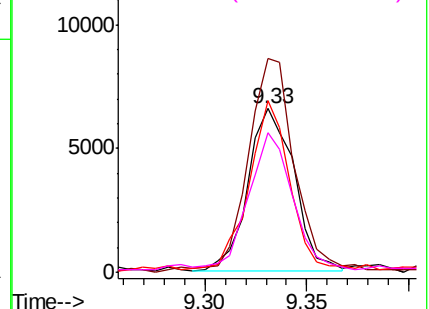


Abundance Ion 163.80 (163.50 to 164.50): V

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



#67

Ethyl Benzene

Concen: 0.299 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013701.D

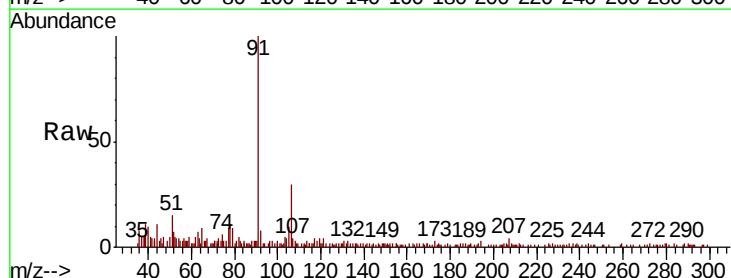
Acq: 29 Nov 2019 15:13

Tgt Ion: 91 Resp: 9910

Ion Ratio Lower Upper

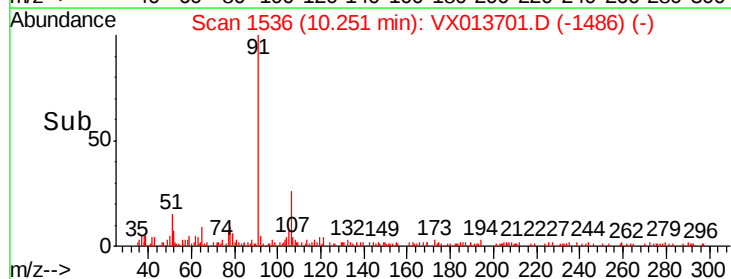
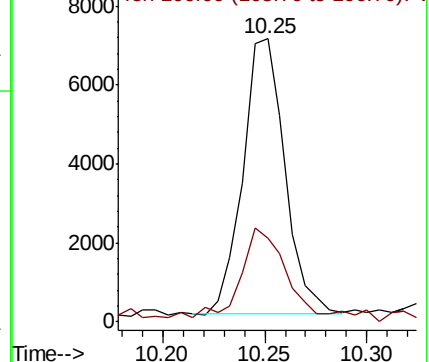
91 100

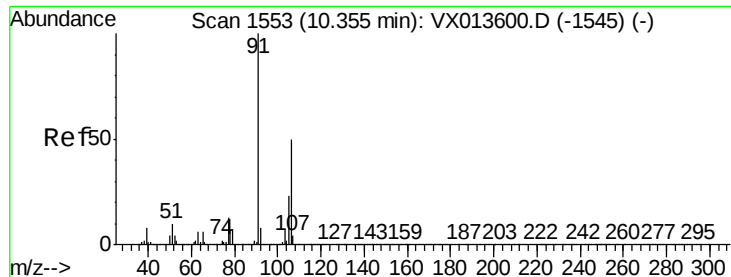
106 28.8 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xvlenes

Concen: 0.893 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

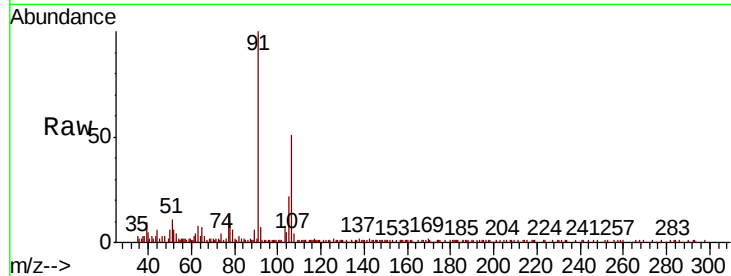
SB-3-WS

Tot Ion:106 Resp: 11320

Ion Ratio Lower Upper

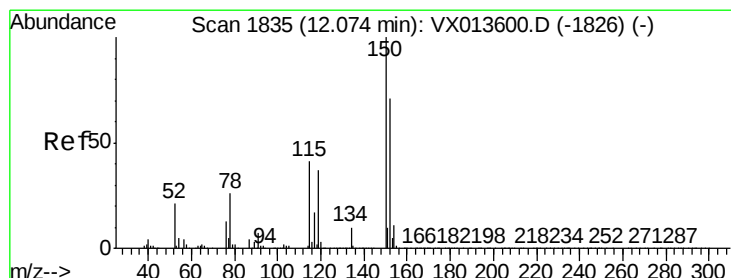
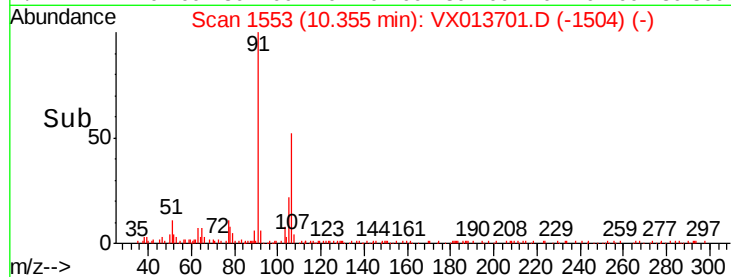
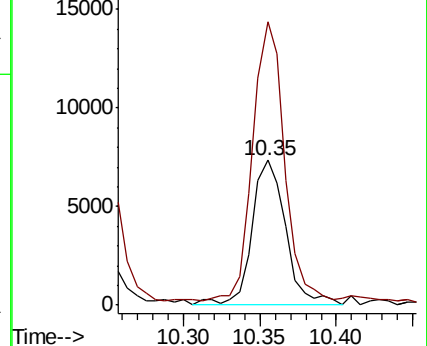
106 100

91 180.7 159.0 238.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

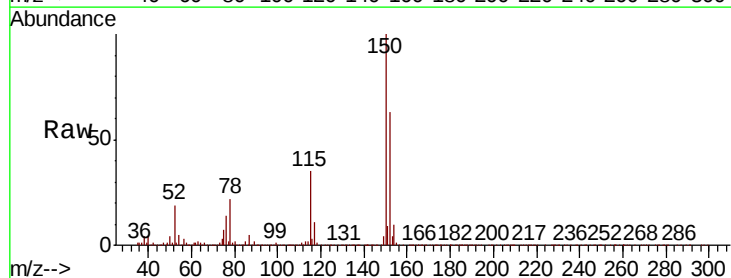
Tgt Ion:152 Resp: 429496

Ion Ratio Lower Upper

152 100

115 54.3 38.4 115.1

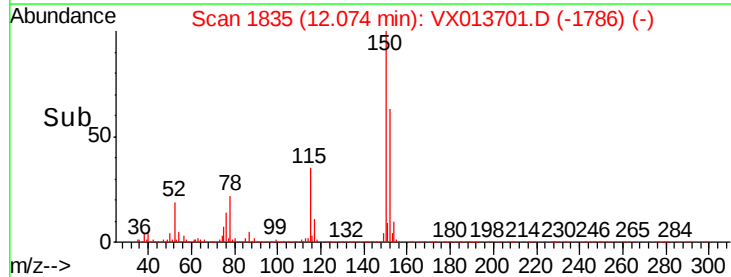
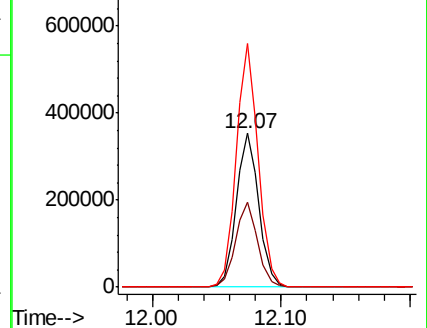
150 154.4 0.0 346.8

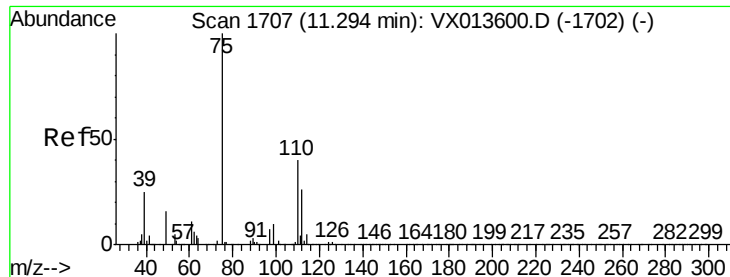


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.152 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

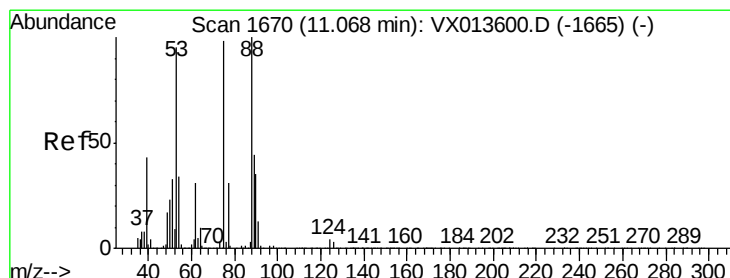
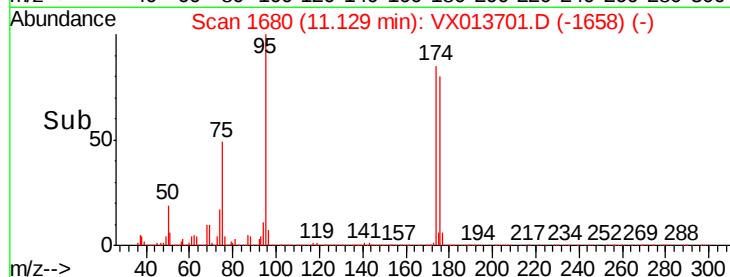
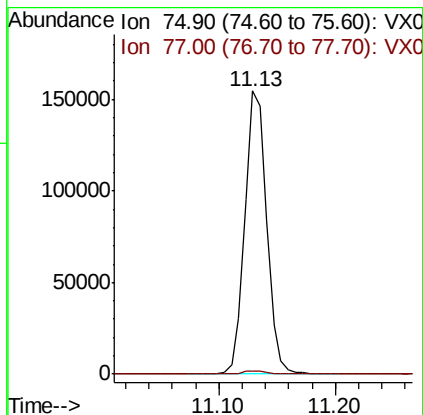
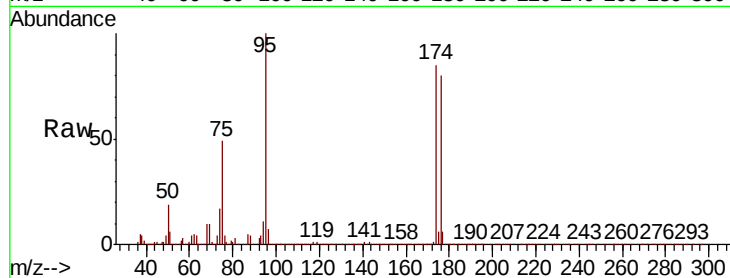
SB-3-WS

Tot Ion: 75 Resp: 204330

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.868 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

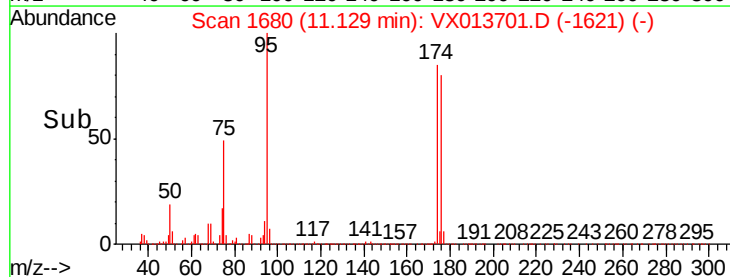
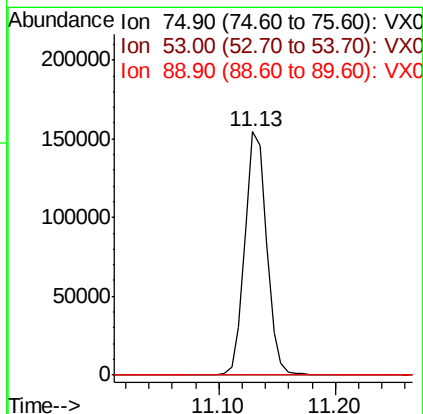
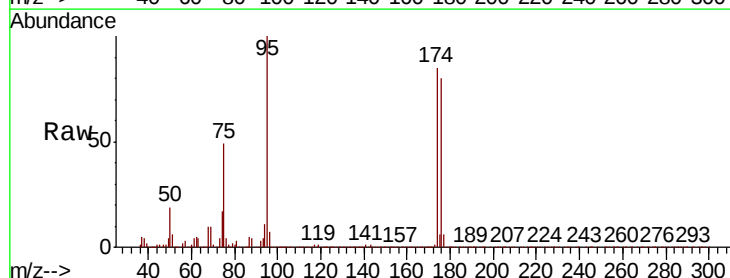
Tgt Ion: 75 Resp: 204330

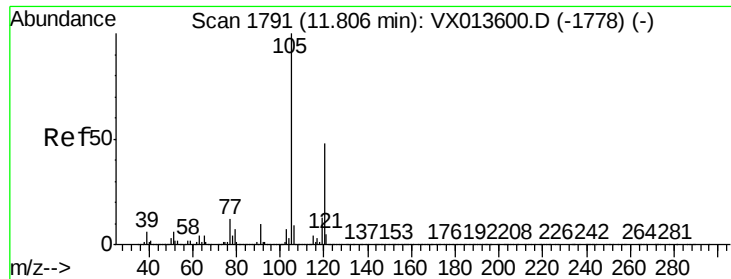
Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.1 35.4 53.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.668 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

Instrument :

MSVOA_X

ClientSampled :

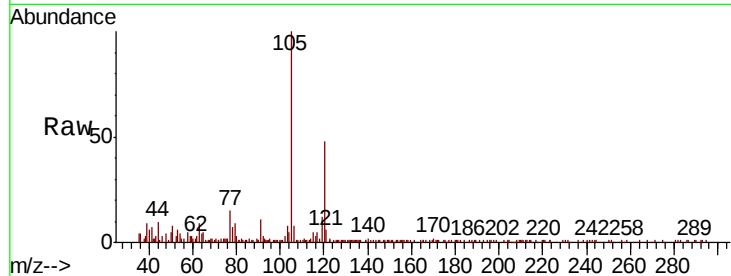
SB-3-WS

Tot Ion:105 Resp: 16736

Ion Ratio Lower Upper

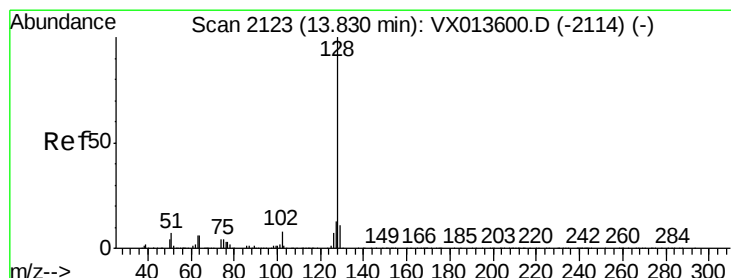
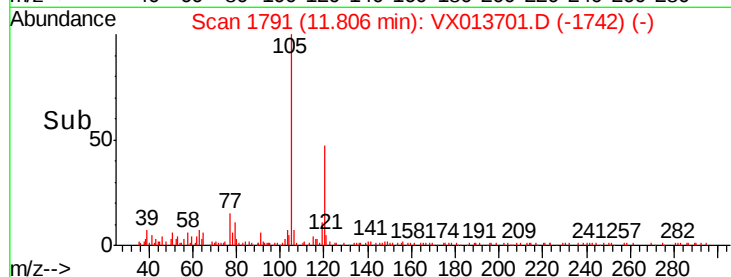
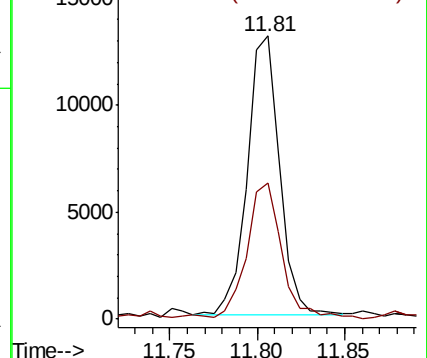
105 100

120 54.4 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 0.754 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013701.D

Acq: 29 Nov 2019 15:13

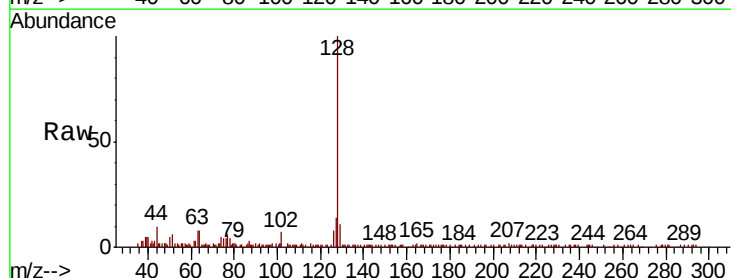
Tgt Ion:128 Resp: 21941

Ion Ratio Lower Upper

128 100

127 15.2 10.3 15.5

129 14.5 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

