

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX042919\
 Data File : VX009213.D
 Acq On : 29 Apr 2019 17:32
 Operator : JC/SP
 Sample : K2594-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423

Quant Time: Apr 30 07:18:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	335603	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	290034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	124632	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	138360	48.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.42%	
35) Dibromofluoromethane	5.50	113	102030	48.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.72%	
50) Toluene-d8	8.71	98	417636	49.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.13	95	140170	45.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.58%	

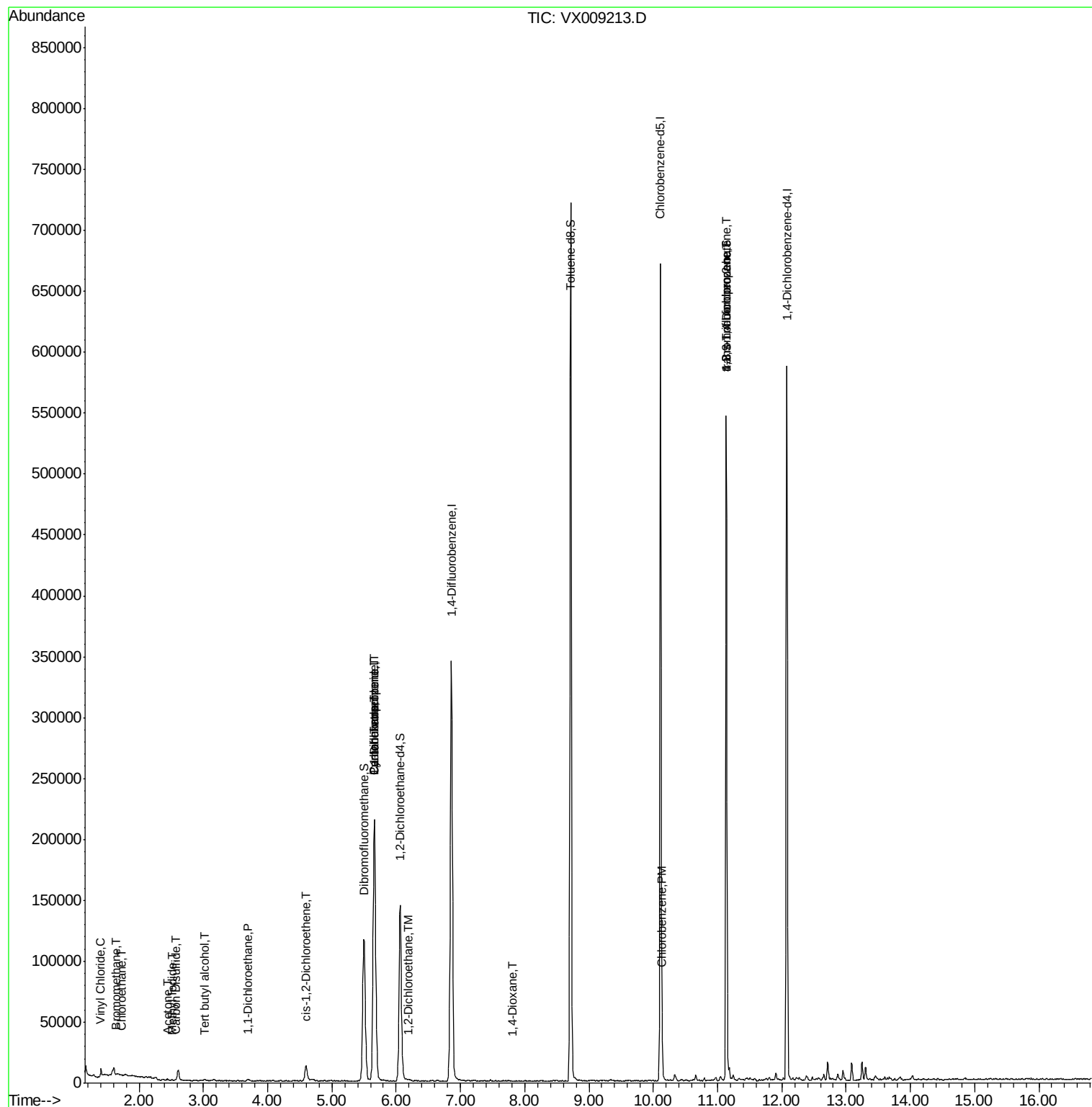
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	4055	1.572	ug/l	95
5) Bromomethane	1.64	94	478	0.309	ug/l #	80
6) Chloroethane	1.72	64	493	0.298	ug/l #	76
10) Methyl Iodide	2.51	142	462	4.777	ug/l #	73
11) Tert butyl alcohol	3.03	59	1008	1.517	ug/l #	84
16) Acetone	2.44	43	1206	0.783	ug/l	92
17) Carbon Disulfide	2.57	76	1703	0.308	ug/l #	89
24) 1,1-Dichloroethane	3.70	63	1789	0.392	ug/l #	84
27) cis-1,2-Dichloroethene	4.60	96	7511	2.942	ug/l	90
28) Bromochloromethane	4.99	49	53	Below Cal	#	20
31) Cyclohexane	5.67	56	4818	1.136	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16203	5.195	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19473	6.872	ug/l #	16
42) 1,2-Dichloroethane	6.19	62	893	0.258	ug/l #	75
49) 1,4-Dioxane	7.81	88	38	0.543	ug/l #	42
65) Chlorobenzene	10.14	112	10092	1.739	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	70598	24.420	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	70598	62.482	ug/l #	10

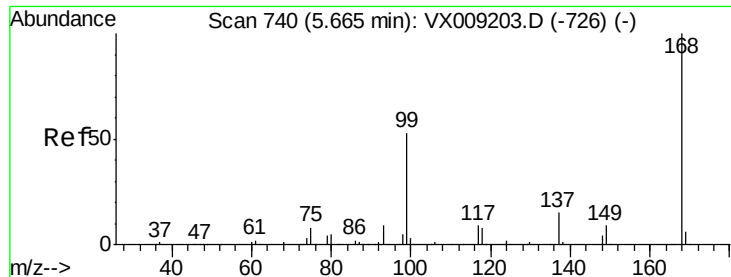
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

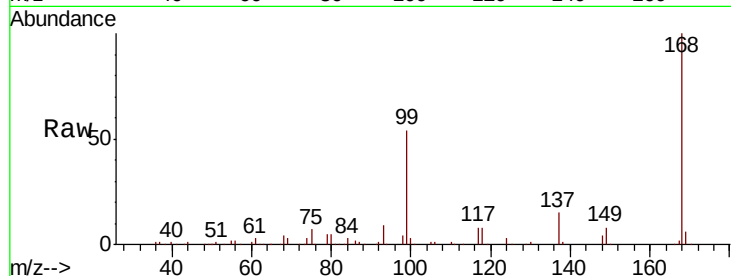
WP021MW038-190423

Tgt Ion:168 Resp: 210231

Ion Ratio Lower Upper

168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

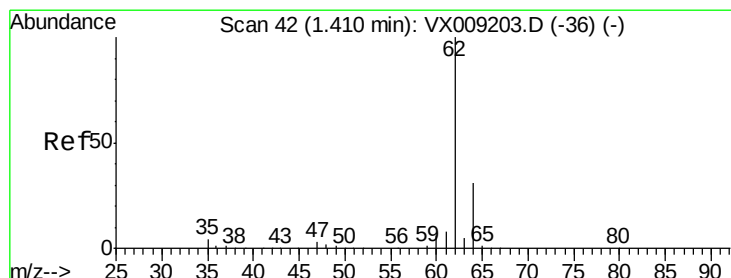
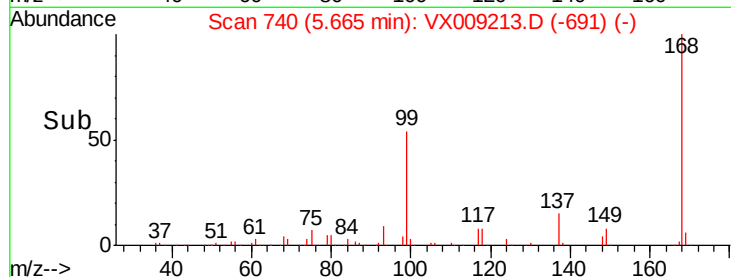
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.572 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009213.D

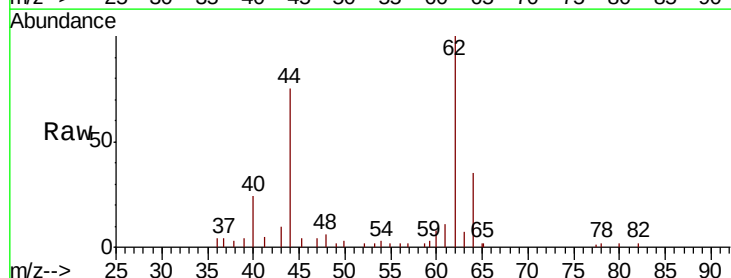
Acq: 29 Apr 2019 17:32

Tgt Ion: 62 Resp: 4055

Ion Ratio Lower Upper

62 100

64 33.7 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

4000

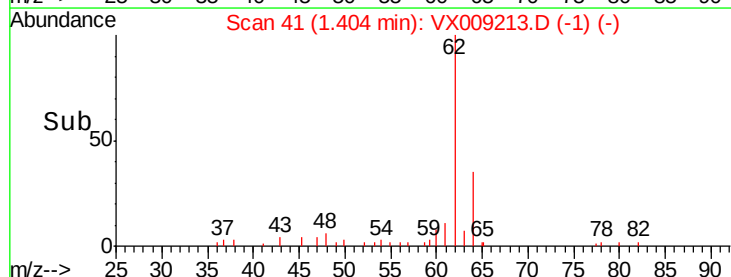
3000

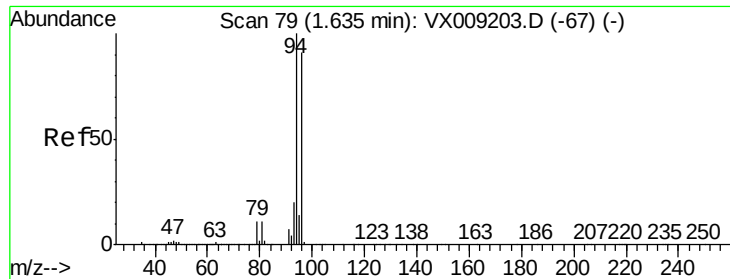
2000

1000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.309 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

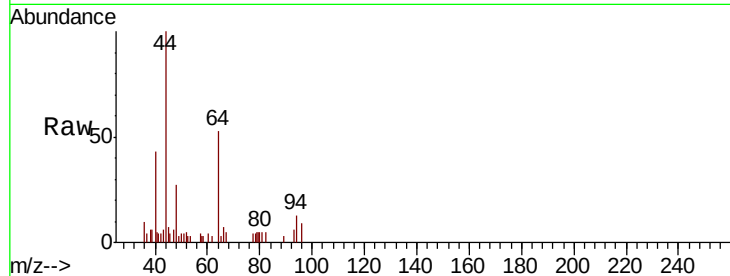
WP021MW038-190423

Tgt Ion: 94 Resp: 478

Ion Ratio Lower Upper

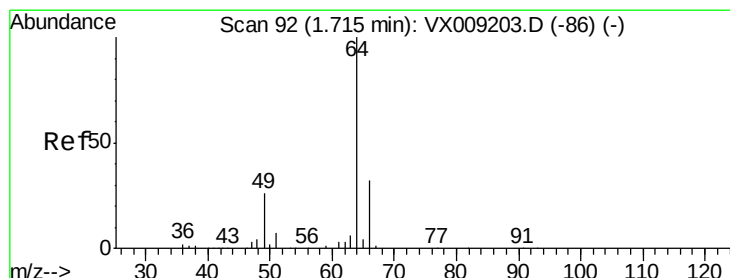
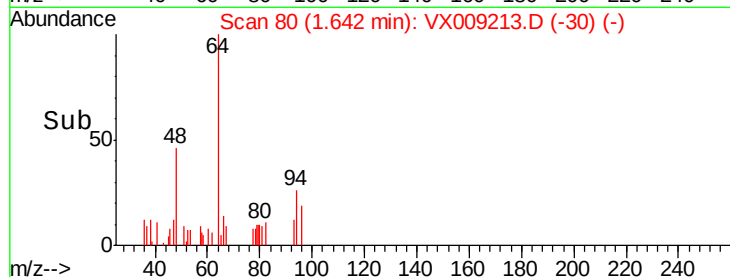
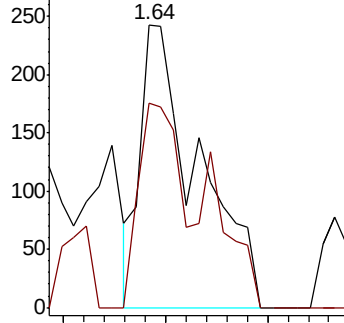
94 100

96 72.0 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.298 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX009213.D

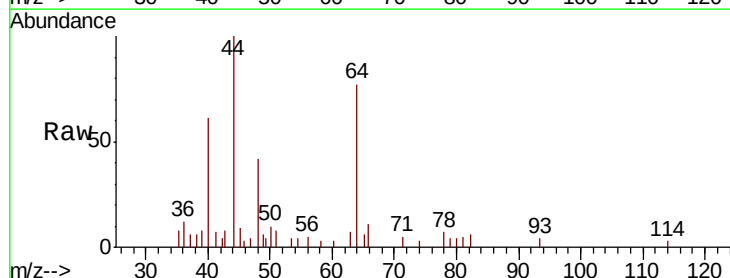
Acq: 29 Apr 2019 17:32

Tgt Ion: 64 Resp: 493

Ion Ratio Lower Upper

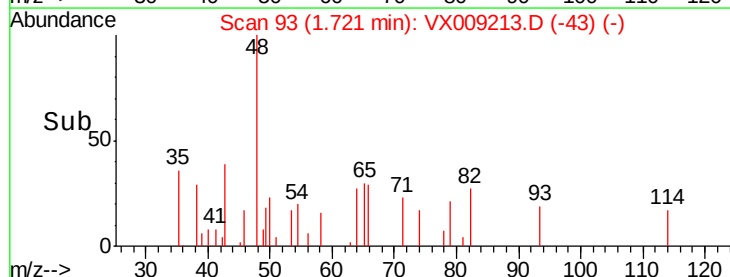
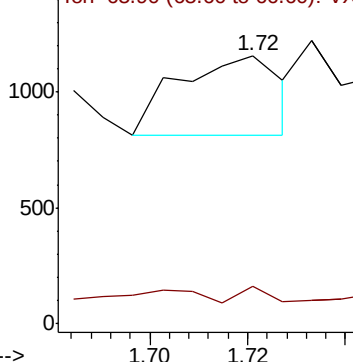
64 100

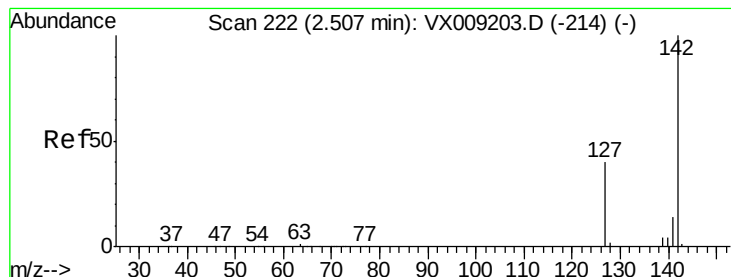
66 18.4 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

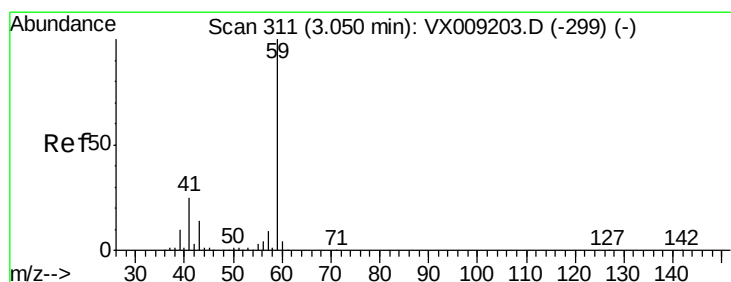
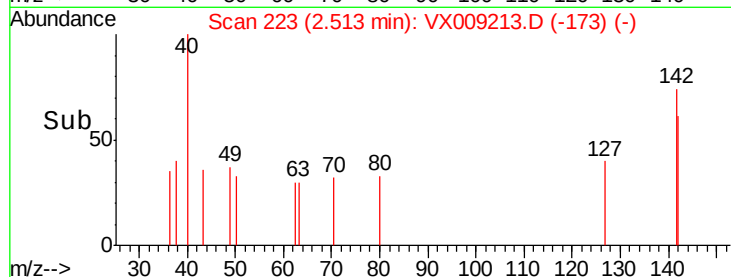
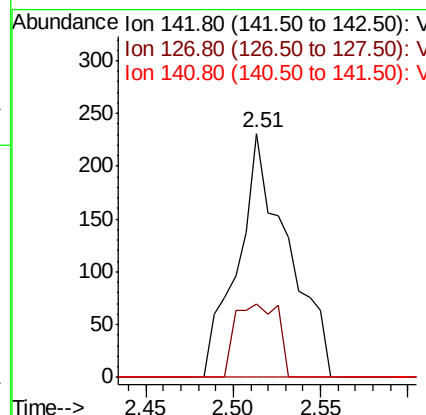
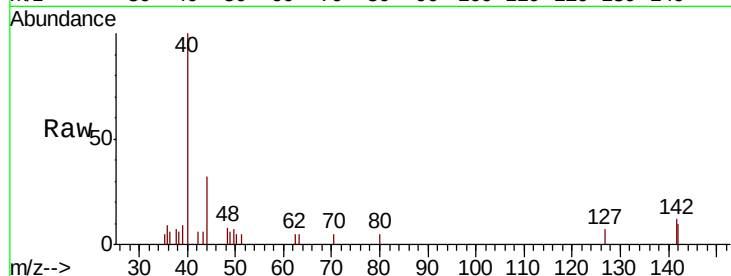




#10
Methyl Iodide
Concen: 4.777 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009213.D
Acq: 29 Apr 2019 17:32

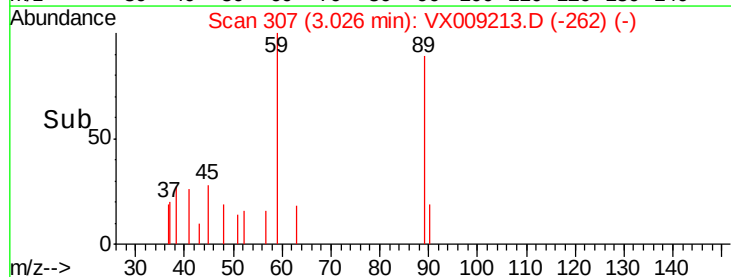
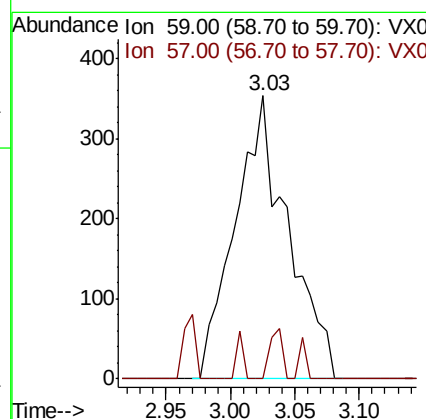
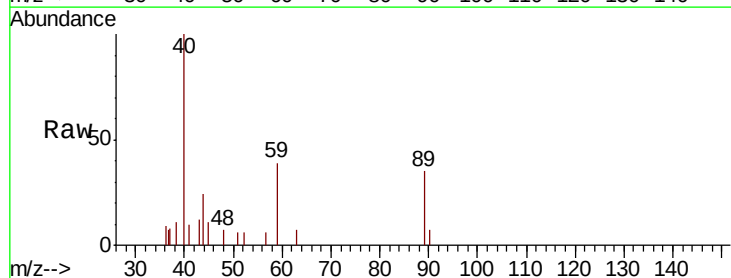
Instrument :
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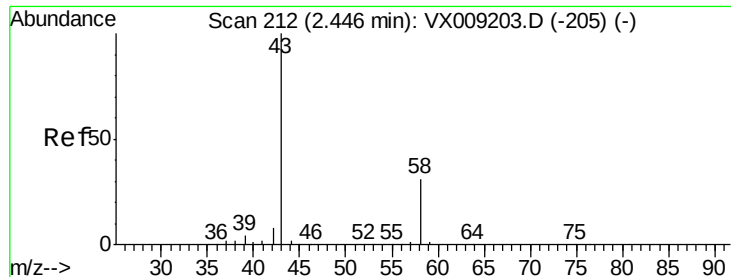
Tgt Ion: 142 Resp: 462
Ion Ratio Lower Upper
142 100
127 25.8 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.517 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009213.D
Acq: 29 Apr 2019 17:32

Tgt Ion: 59 Resp: 1008
Ion Ratio Lower Upper
59 100
57 4.2 8.2 12.2#





#16

Acetone

Concen: 0.783 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

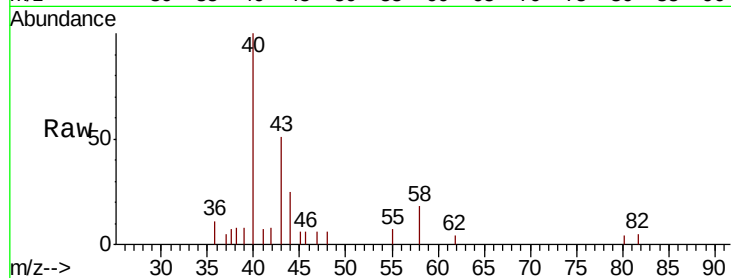
WP021MW038-190423

Tgt Ion: 43 Resp: 1206

Ion Ratio Lower Upper

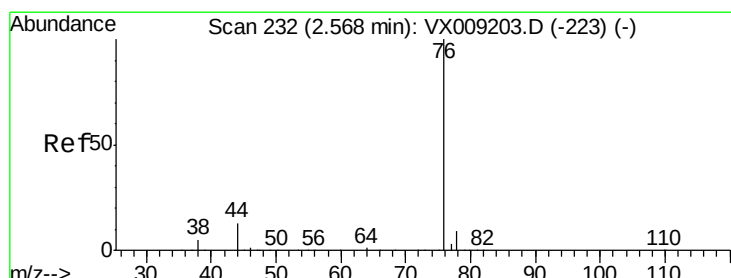
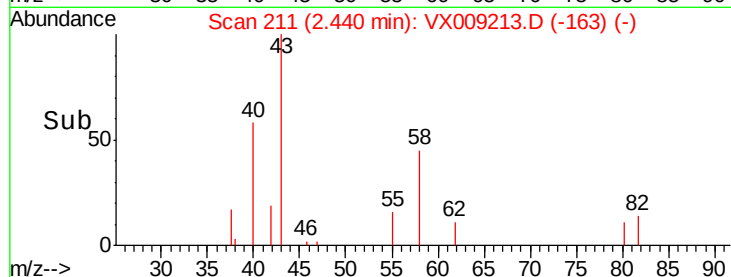
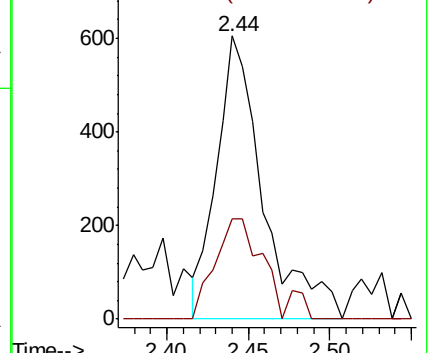
43 100

58 35.4 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.308 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009213.D

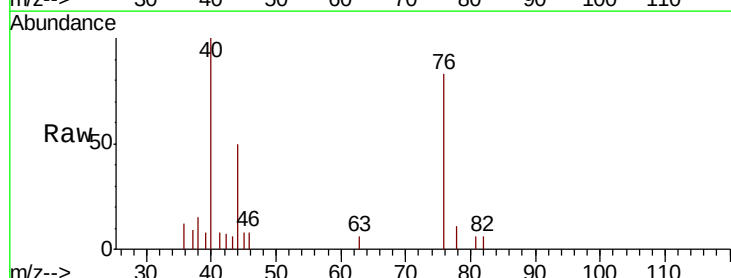
Acq: 29 Apr 2019 17:32

Tgt Ion: 76 Resp: 1703

Ion Ratio Lower Upper

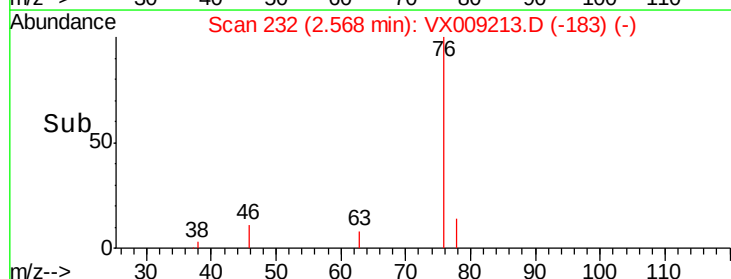
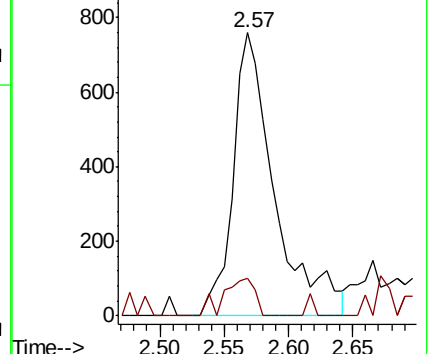
76 100

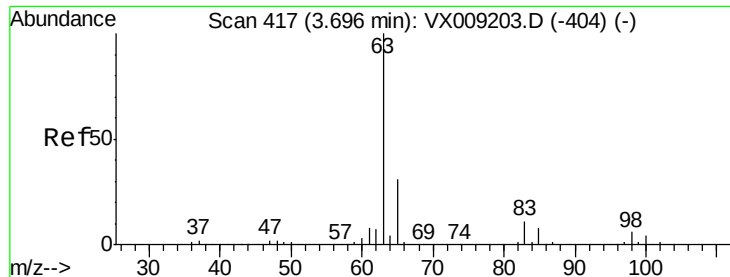
78 13.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#24

1,1-Dichloroethane

Concen: 0.392 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423

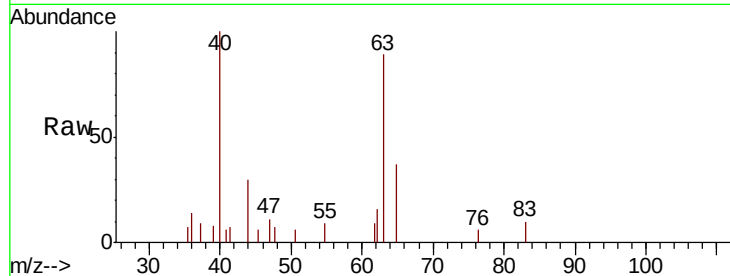
Tgt Ion: 63 Resp: 1789

Ion Ratio Lower Upper

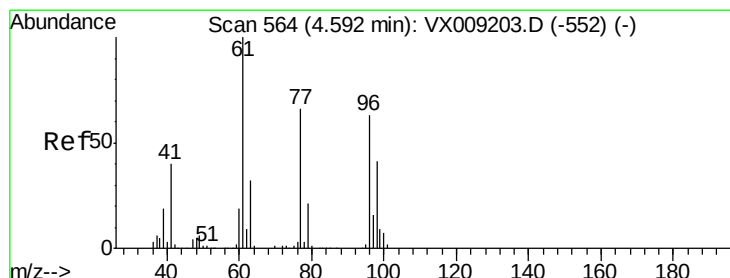
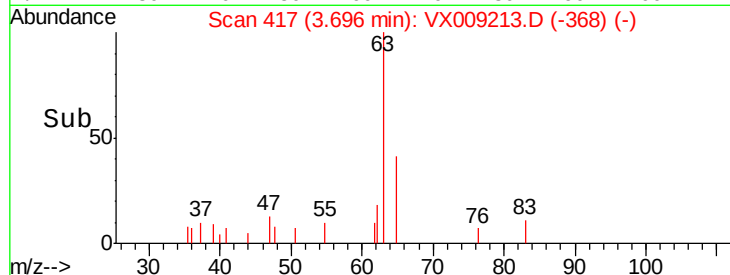
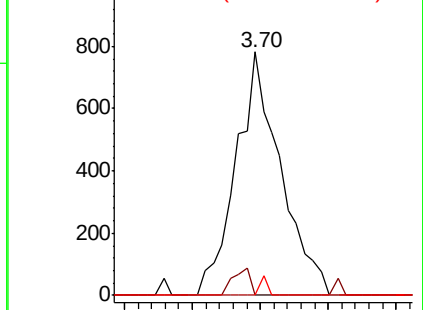
63 100

98 0.0 3.0 9.2#

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.942 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

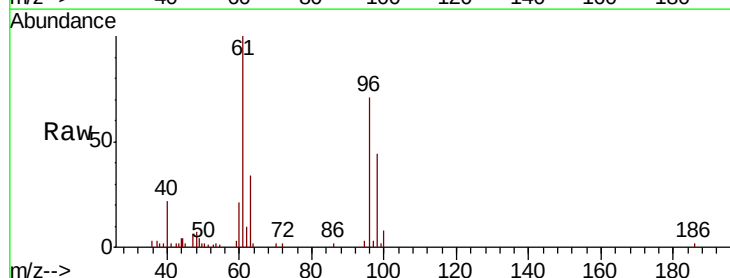
Tgt Ion: 96 Resp: 7511

Ion Ratio Lower Upper

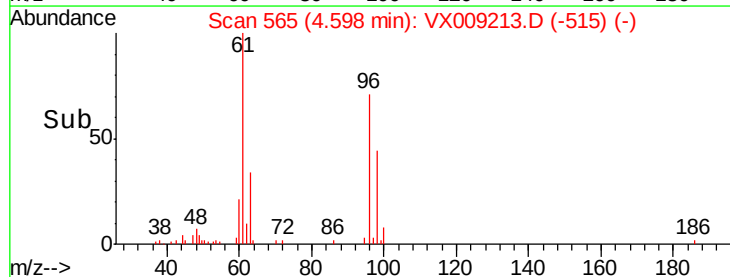
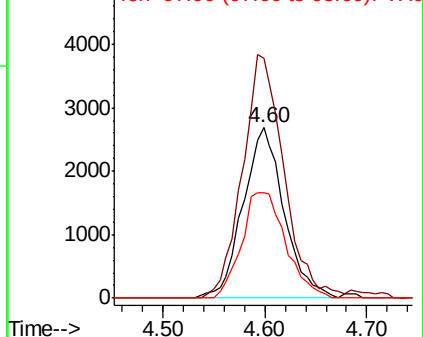
96 100

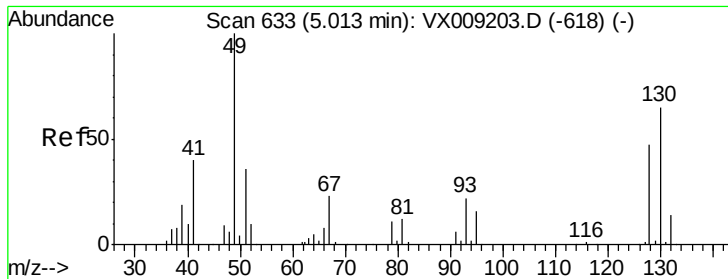
61 144.1 0.0 324.0

98 66.4 0.0 130.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

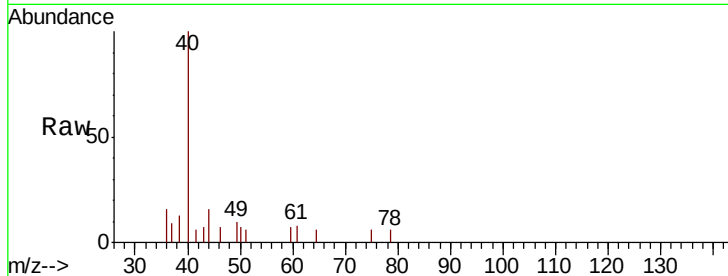
Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423

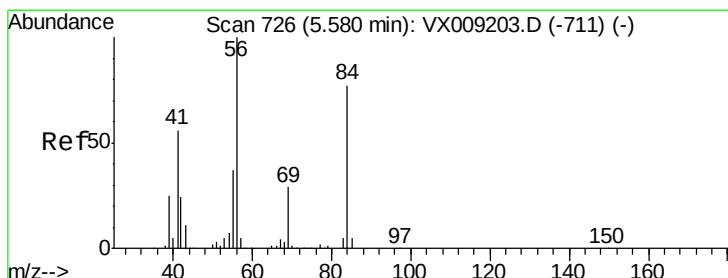
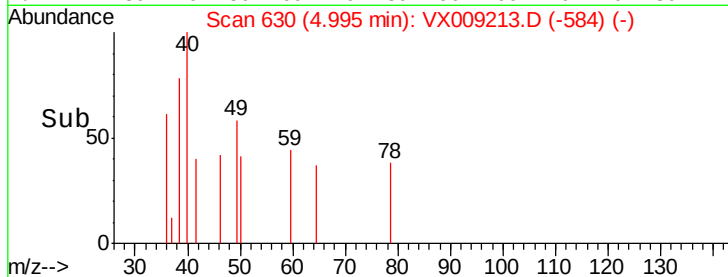
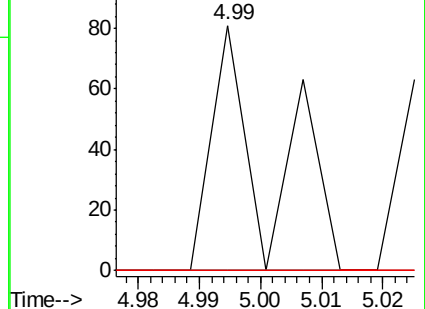
Tgt Ion:	49	Resp:	53
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	51.2	76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 1.136 ug/l

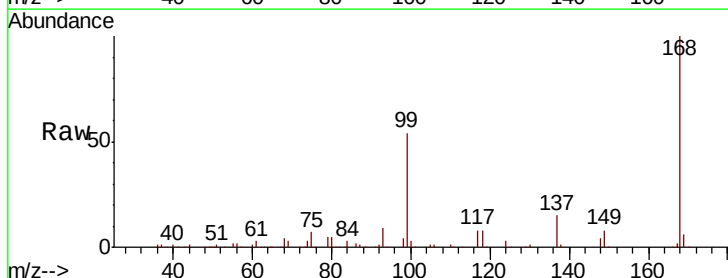
RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

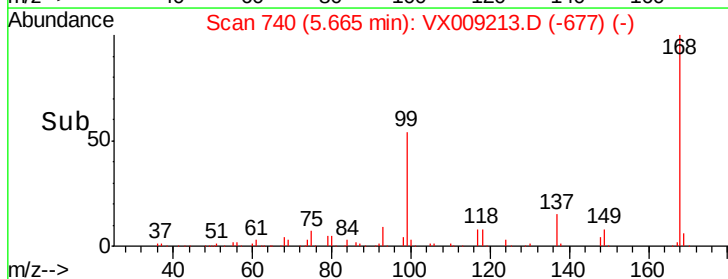
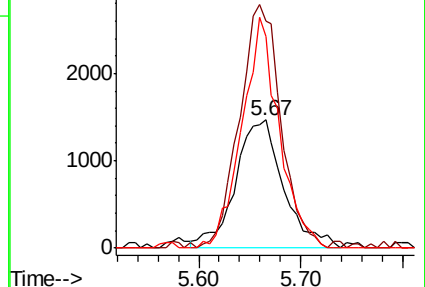
Tgt Ion:	56	Resp:	4818
Ion	Ratio	Lower	Upper
56	100		
69	172.6	23.4	35.0#
84	164.6	61.9	92.9#

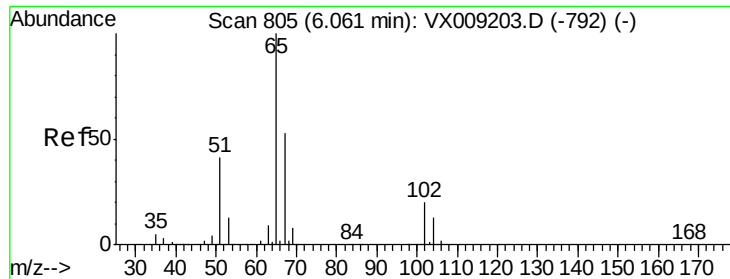


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

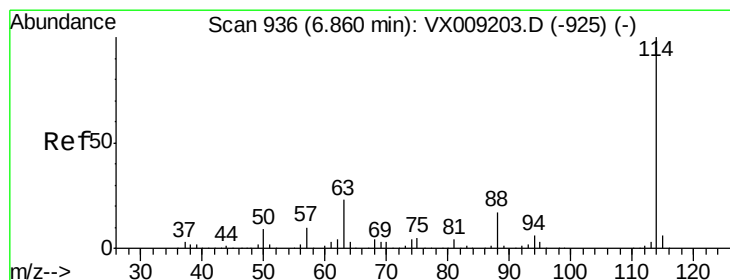
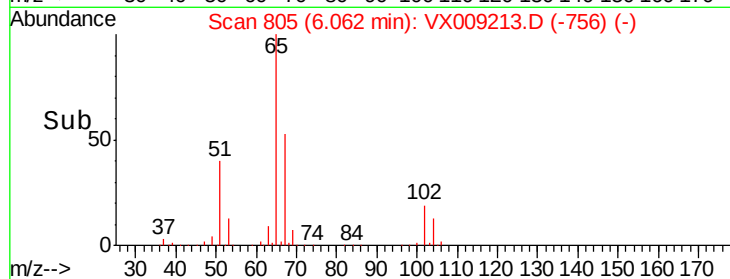
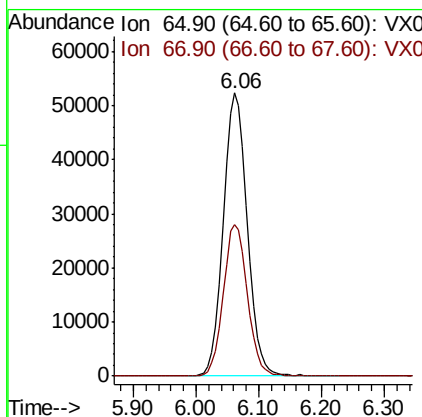
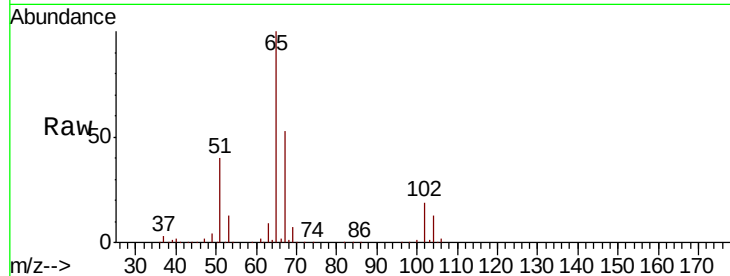




#33
 1,2-Dichloroethane-d4
 Concen: 48.211 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009213.D
 Acq: 29 Apr 2019 17:32

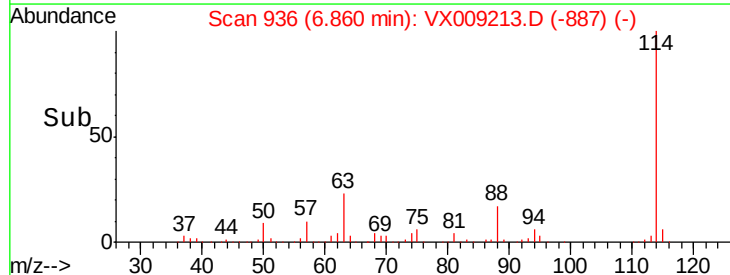
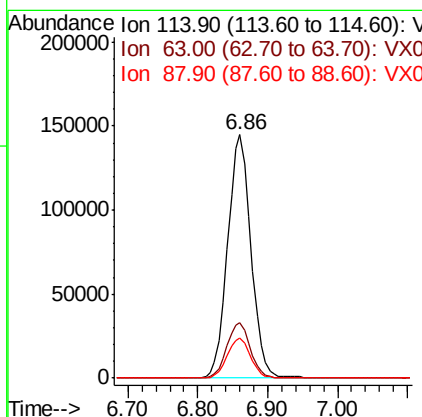
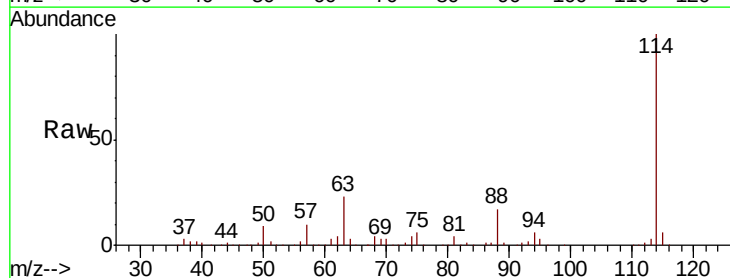
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423

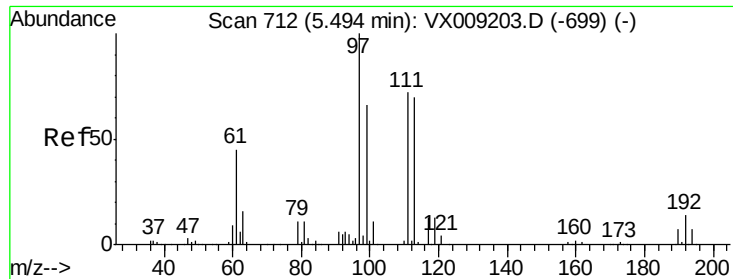
Tgt Ion: 65 Resp: 138360
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009213.D
 Acq: 29 Apr 2019 17:32

Tgt Ion: 114 Resp: 335603
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 45.6
 88 16.7 0.0 33.2

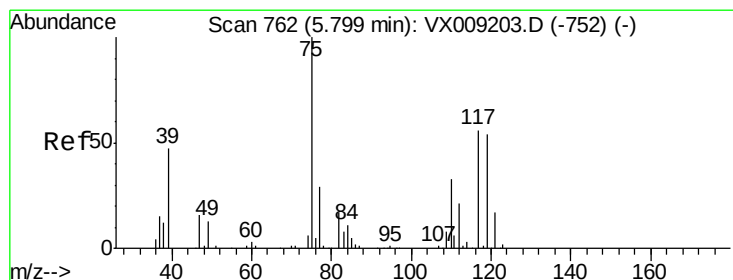
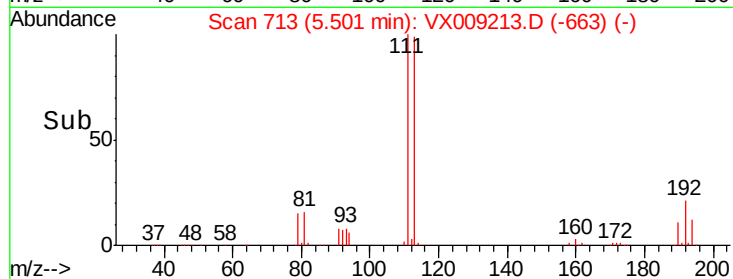
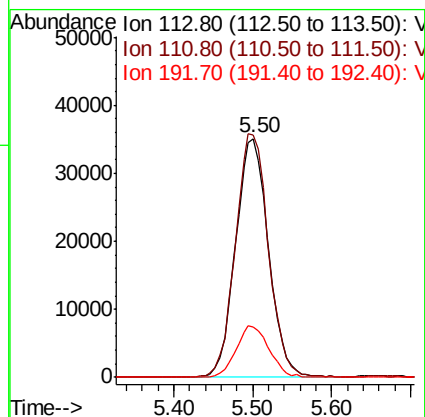
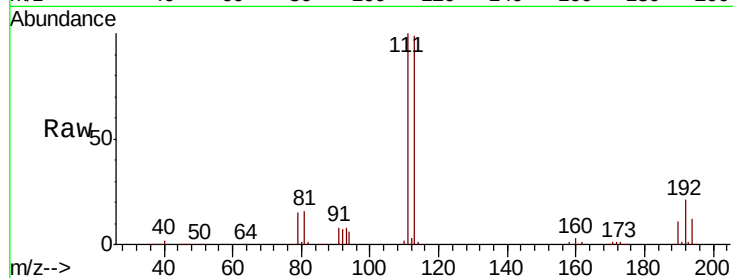




#35
 Dibromofluoromethane
 Concen: 48.362 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009213.D
 Acq: 29 Apr 2019 17:32

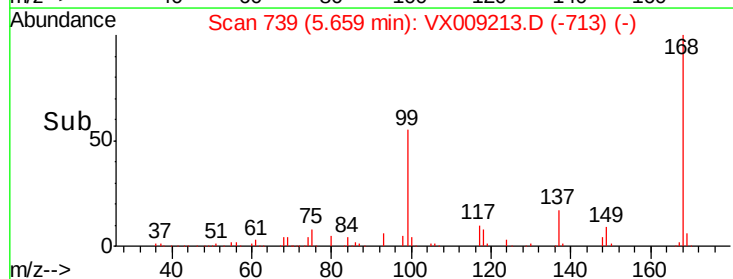
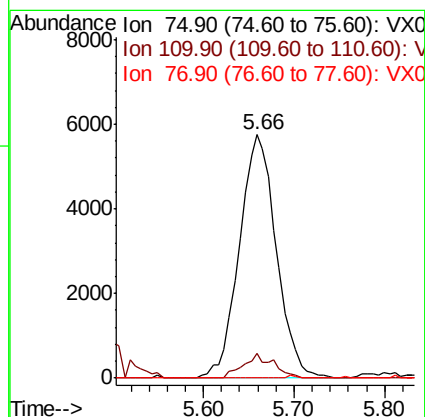
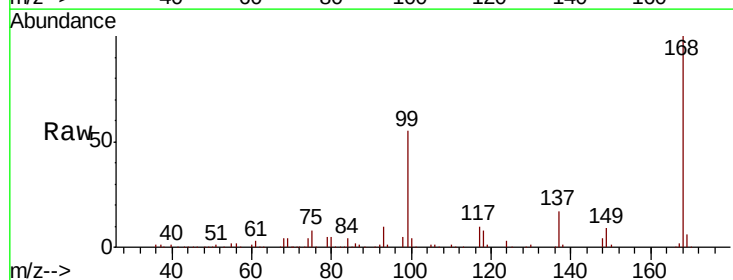
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423

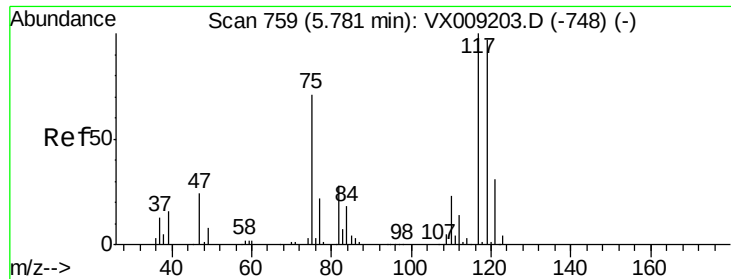
Tgt Ion:113 Resp: 102030
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.8 124.2
 192 21.4 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.195 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009213.D
 Acq: 29 Apr 2019 17:32

Tgt Ion: 75 Resp: 16203
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.9 50.6#
 77 0.0 24.8 37.2#

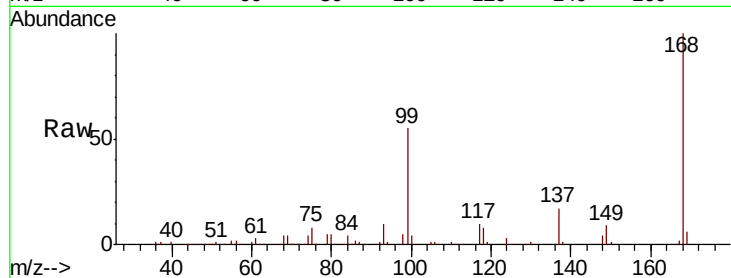




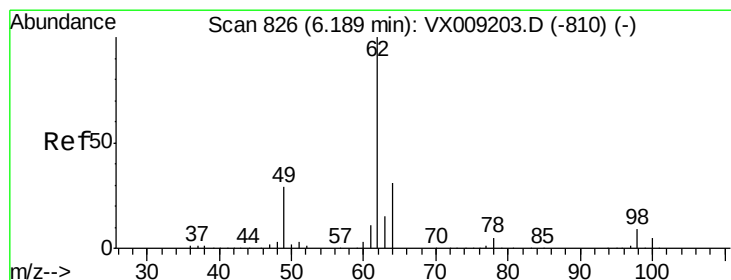
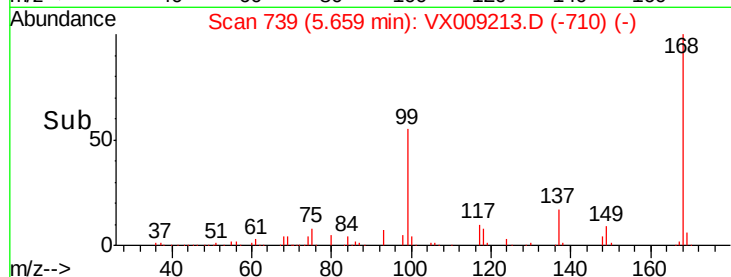
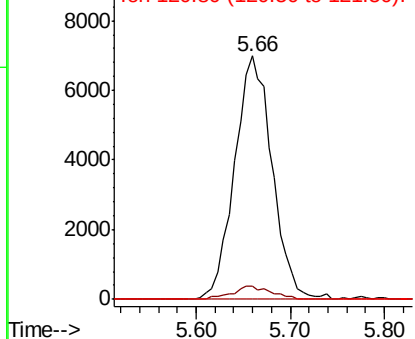
#38
Carbon Tetrachloride
Concen: 6.872 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX009213.D
Acq: 29 Apr 2019 17:32

Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423

Tgt Ion:117 Resp: 19473
Ion Ratio Lower Upper
117 100
119 5.4 77.5 116.3#
121 0.0 24.7 37.1#

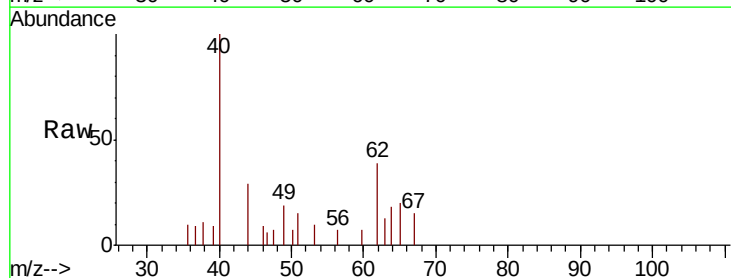


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

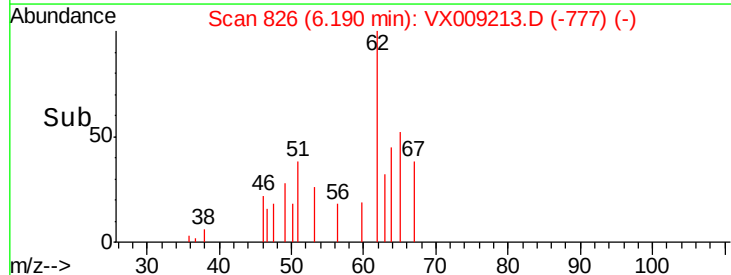
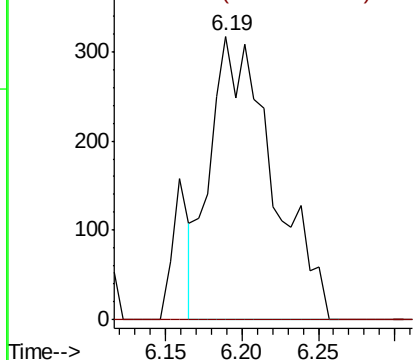


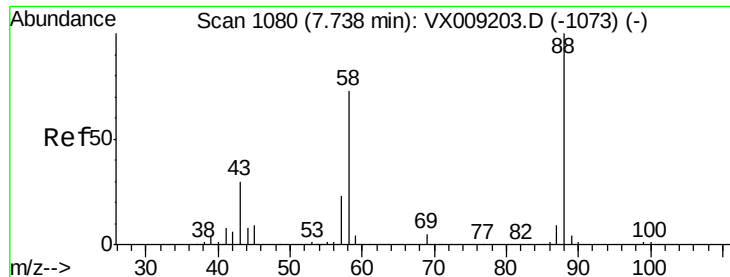
#42
1,2-Dichloroethane
Concen: 0.258 ug/l
RT: 6.19 min Scan# 826
Delta R.T. 0.00 min
Lab File: VX009213.D
Acq: 29 Apr 2019 17:32

Tgt Ion: 62 Resp: 893
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 0.543 ug/l

RT: 7.81 min Scan# 1091

Delta R.T. 0.07 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423

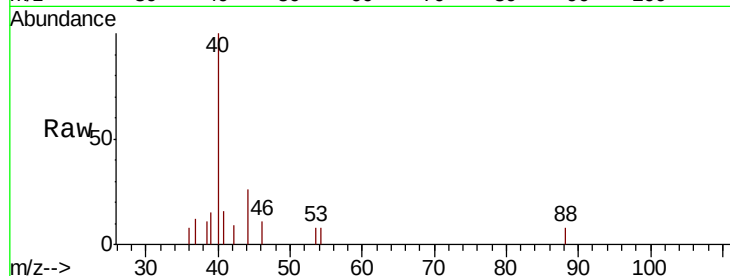
Tgt Ion: 88 Resp: 38

Ion Ratio Lower Upper

88 100

43 86.8 28.6 42.8#

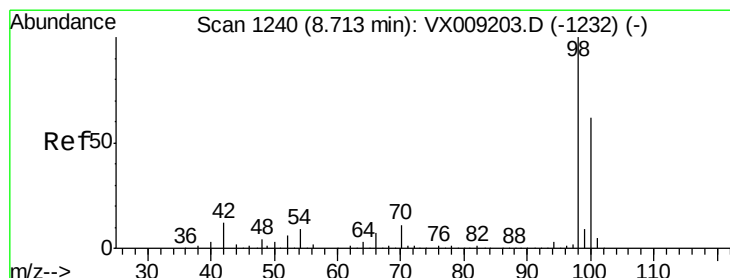
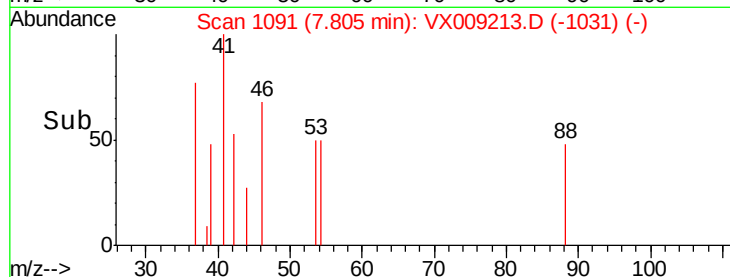
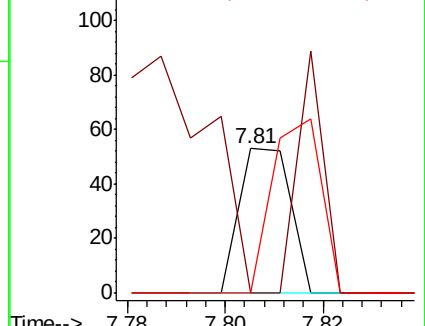
58 115.8 61.7 92.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.033 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009213.D

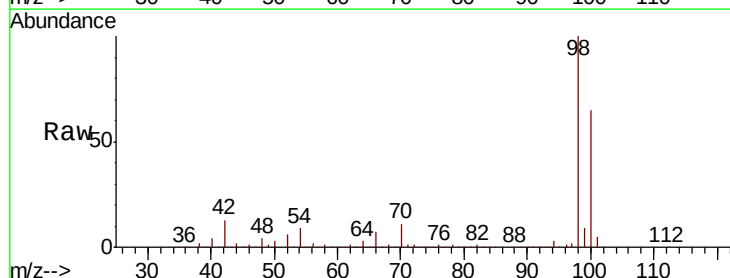
Acq: 29 Apr 2019 17:32

Tgt Ion: 98 Resp: 417636

Ion Ratio Lower Upper

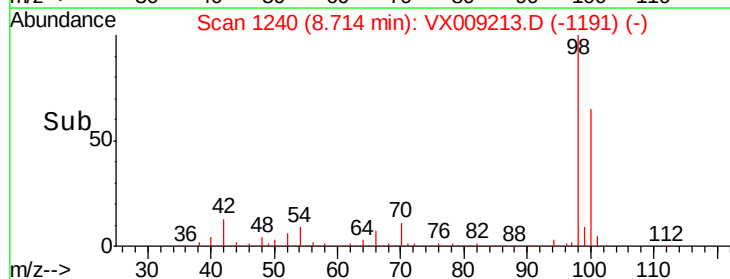
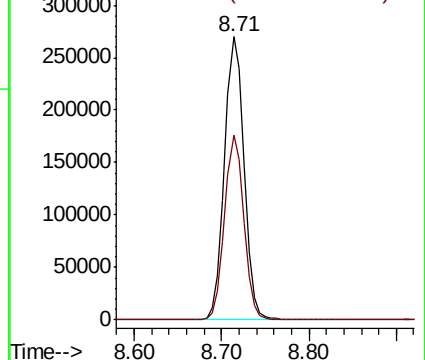
98 100

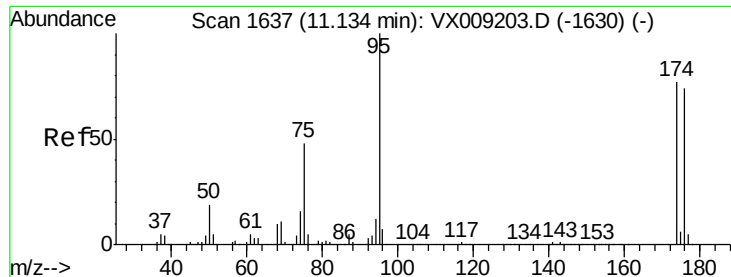
100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.290 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

Instrument :

MSVOA_X

ClientSampleId :

WP021MW038-190423

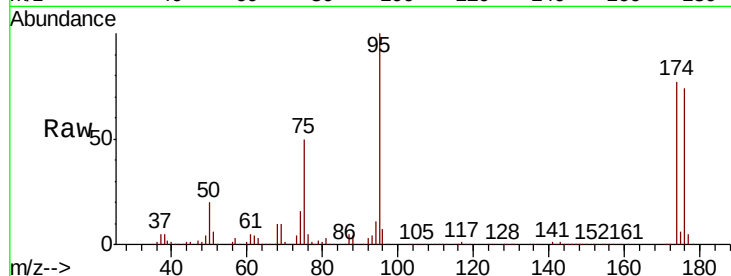
Tgt Ion: 95 Resp: 140170

Ion Ratio Lower Upper

95 100

174 80.5 0.0 161.6

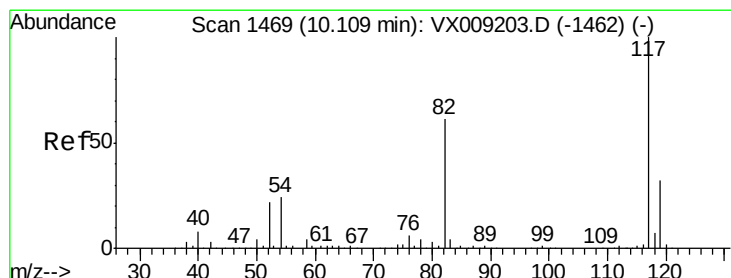
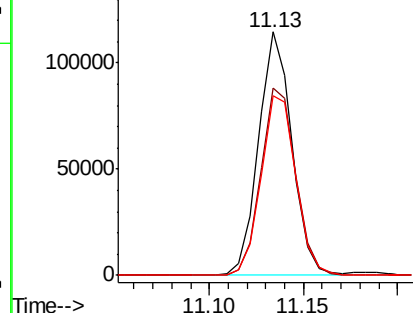
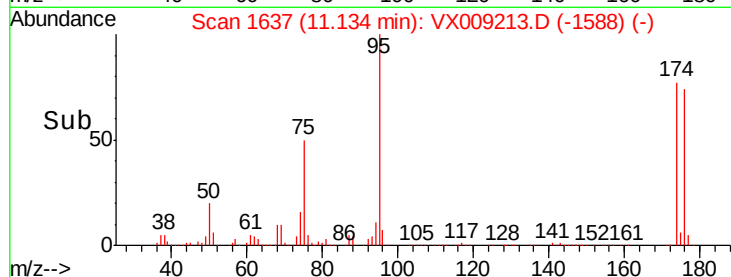
176 77.7 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009213.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009213.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009213.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009213.D

Acq: 29 Apr 2019 17:32

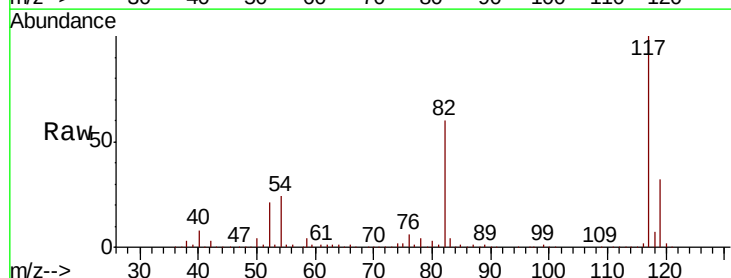
Tgt Ion: 117 Resp: 290034

Ion Ratio Lower Upper

117 100

82 60.1 48.8 73.2

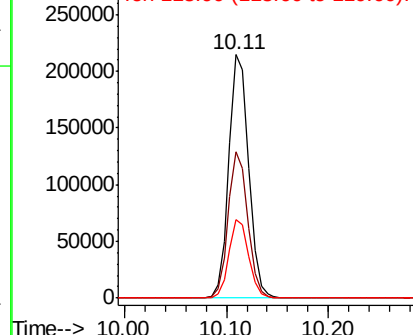
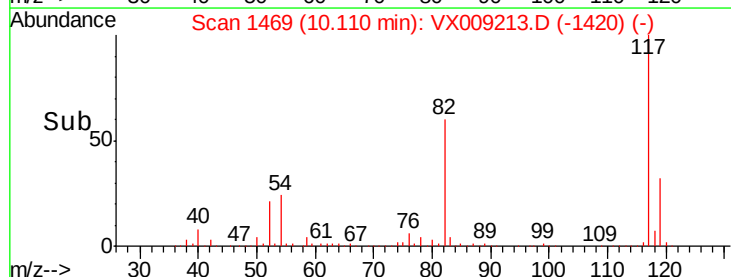
119 32.2 25.8 38.6

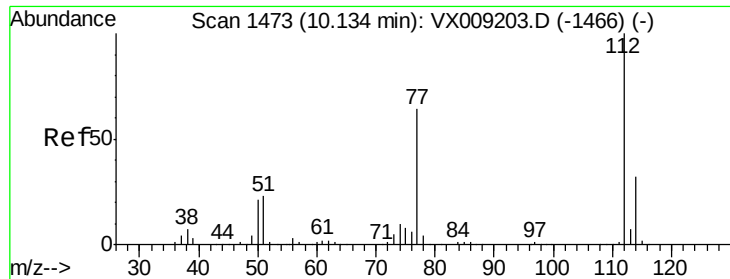


Abundance Ion 116.90 (116.60 to 117.60): VX009213.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009213.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009213.D (-1420) (-)

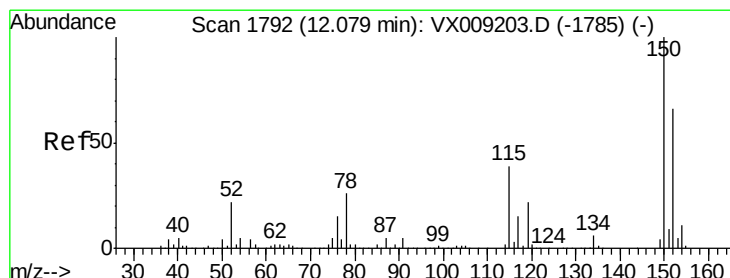
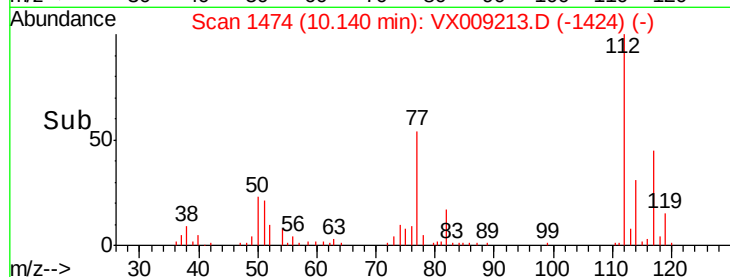
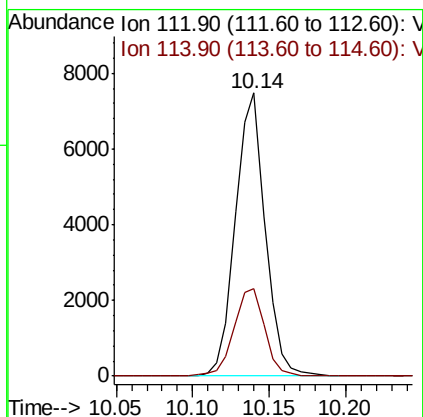
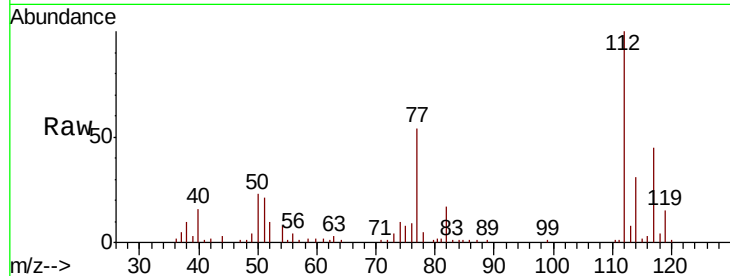




#65
Chlorobenzene
Concen: 1.739 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009213.D
Acq: 29 Apr 2019 17:32

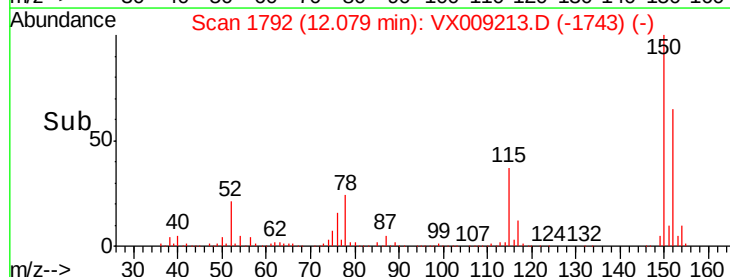
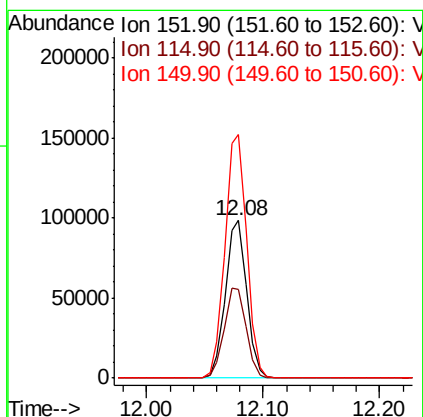
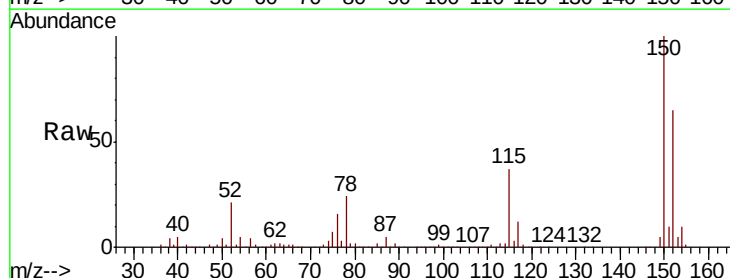
Instrument :
MSVOA_X
ClientSampleId :
WP021MW038-190423

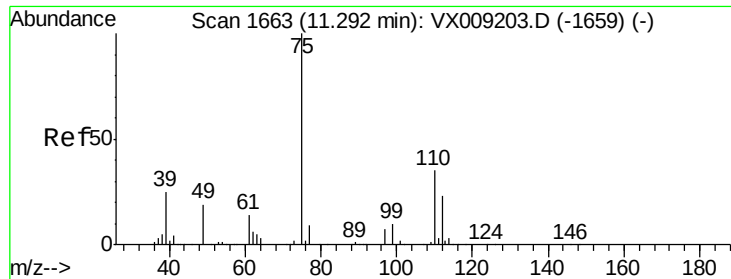
Tgt Ion:112 Resp: 10092
Ion Ratio Lower Upper
112 100
114 30.8 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009213.D
Acq: 29 Apr 2019 17:32

Tgt Ion:152 Resp: 124632
Ion Ratio Lower Upper
152 100
115 58.7 41.2 123.6
150 158.0 0.0 346.4

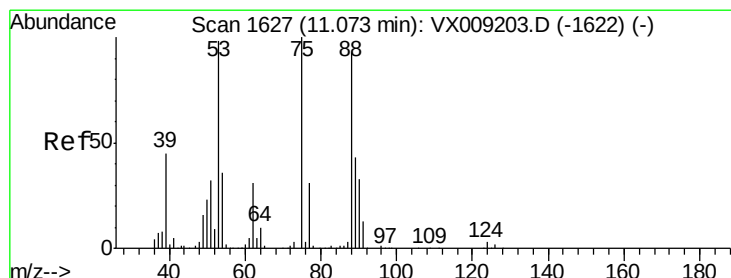
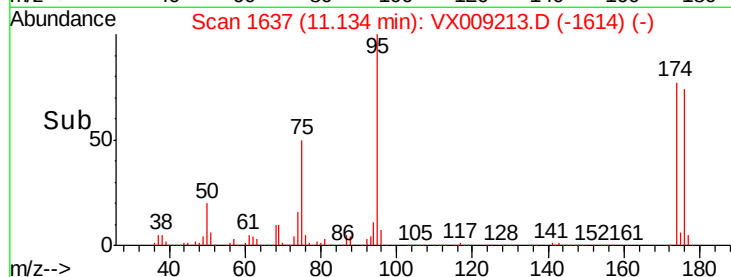
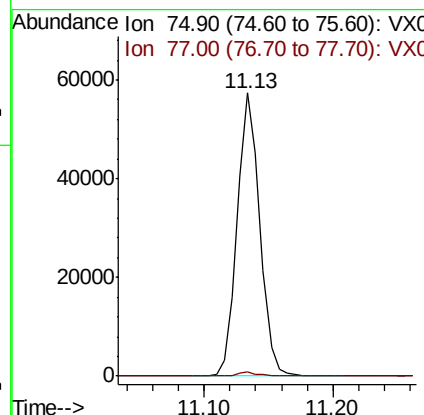
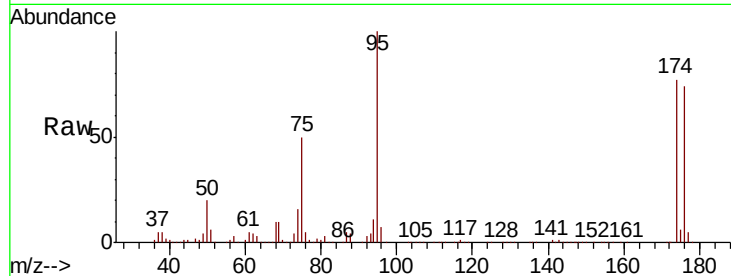




#76
 1,2,3-Trichloropropane
 Concen: 24.420 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009213.D
 Acq: 29 Apr 2019 17:32

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW038-190423

Tgt Ion: 75 Resp: 70598
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.482 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009213.D
 Acq: 29 Apr 2019 17:32

Tgt Ion: 75 Resp: 70598
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.0 118.6#
 89 0.0 34.7 52.1#

