

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042619\
 Data File : VX009184.D
 Acq On : 26 Apr 2019 13:03
 Operator : JC/SP
 Sample : K2581-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-03

Quant Time: Apr 27 04:00:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	212714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344824	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	296828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	128744	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	141190	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	
35) Dibromofluoromethane	5.50	113	104099	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	8.71	98	428613	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.13	95	144179	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	

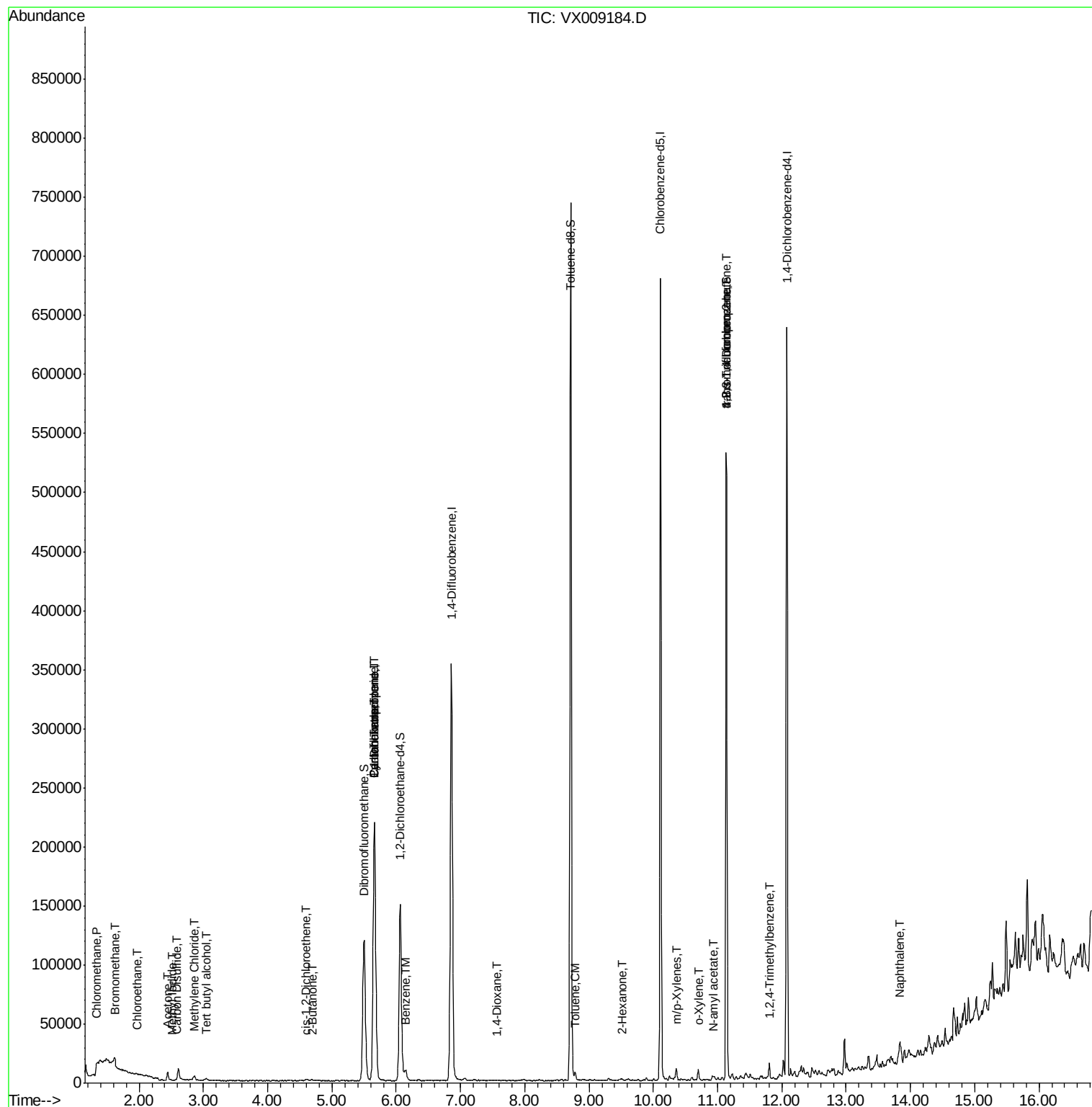
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	702	0.233	ug/l	90
5) Bromomethane	1.64	94	352	4.026	ug/l #	38
6) Chloroethane	1.98	64	540	0.314	ug/l #	44
10) Methyl Iodide	2.52	142	183	4.484	ug/l #	86
11) Tert butyl alcohol	3.04	59	2233	3.356	ug/l	97
16) Acetone	2.45	43	7383	4.749	ug/l	99
17) Carbon Disulfide	2.57	76	1324	1.445	ug/l	99
20) Methylene Chloride	2.86	84	1484	0.558	ug/l #	86
25) 2-Butanone	4.69	43	1617	0.651	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	880	0.319	ug/l	81
28) Bromochloromethane	5.00	49	19	Below Cal	#	21
31) Cyclohexane	5.66	56	4879	1.022	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16801	4.711	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20001	6.616	ug/l #	18
40) Benzene	6.14	78	9567	0.909	ug/l	96
49) 1,4-Dioxane	7.57	88	20	0.292	ug/l #	1
52) Toluene	8.79	92	2049	0.325	ug/l	89
59) 2-Hexanone	9.51	43	807	0.222	ug/l	69
68) m/p-Xylenes	10.35	106	2358	0.567	ug/l	88
69) o-Xylene	10.70	106	1610	0.398	ug/l	94
74) N-amyl acetate	10.93	43	2688	0.480	ug/l #	73
76) 1,2,3-Trichloropropane	11.13	75	72744	23.140	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72744	59.406	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.80	105	3832	0.460	ug/l	94
95) Naphthalene	13.83	128	10285	1.045	ug/l	95

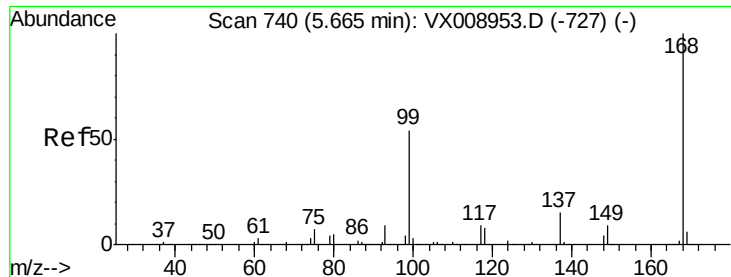
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

Instrument :

MSVOA_X

ClientSampled :

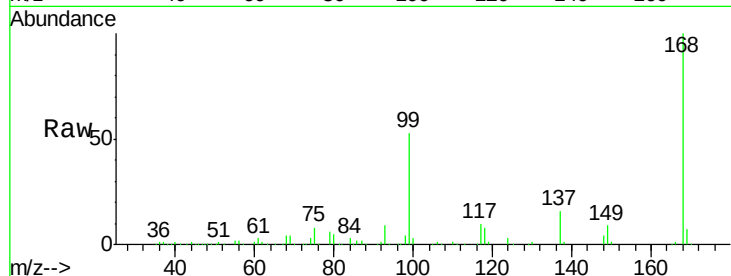
MW-03

Tot Ion:168 Resp: 212714

Ion Ratio Lower Upper

168 100

99 52.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

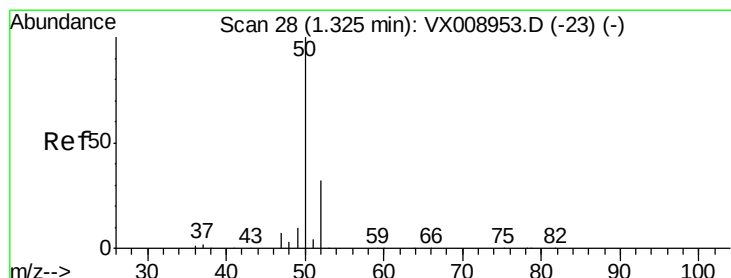
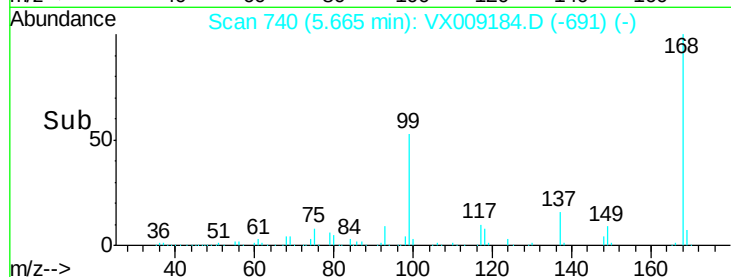
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.233 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX009184.D

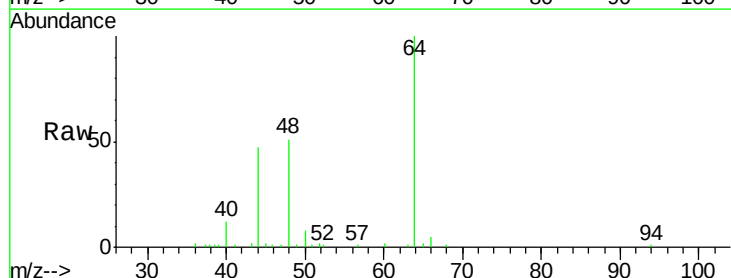
Acq: 26 Apr 2019 13:03

Tgt Ion: 50 Resp: 702

Ion Ratio Lower Upper

50 100

52 26.5 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.34

600

500

400

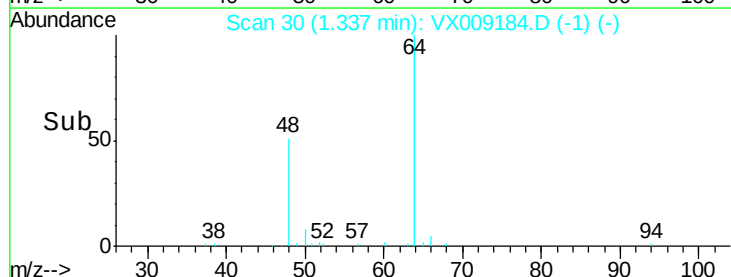
300

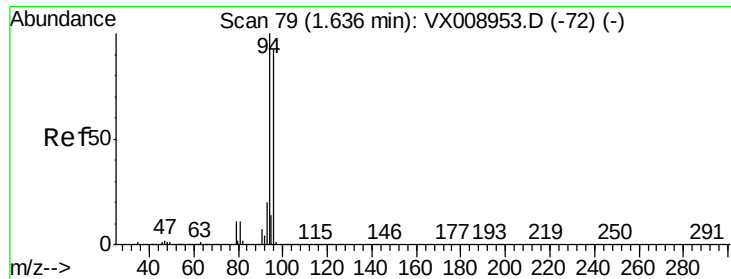
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 4.026 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

Instrument :

MSVOA_X

ClientSampled :

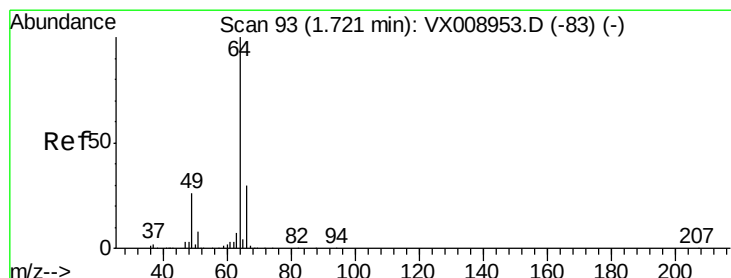
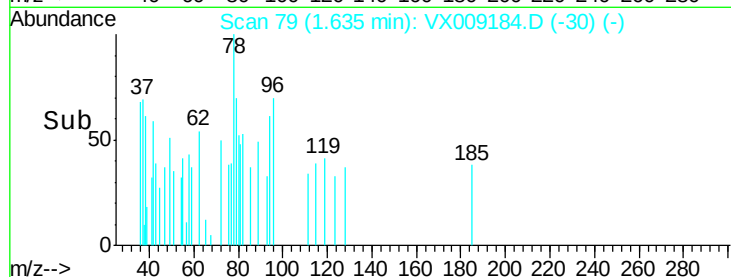
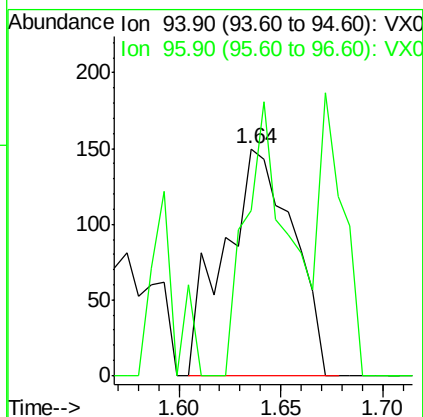
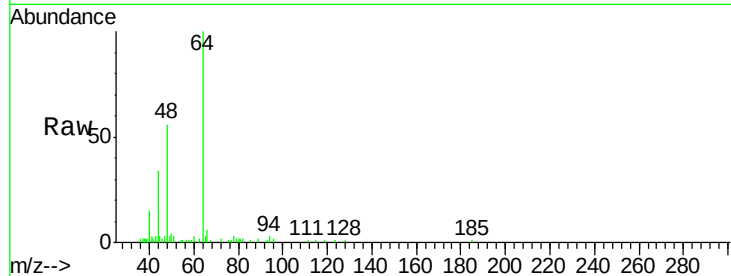
MW-03

Tot Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 32.7 73.9 110.9#



#6

Chloroethane

Concen: 0.314 ug/l

RT: 1.98 min Scan# 135

Delta R.T. 0.26 min

Lab File: VX009184.D

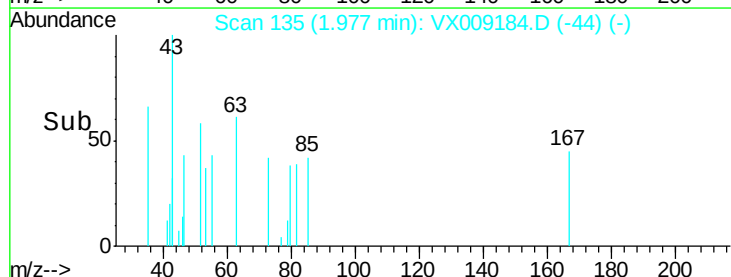
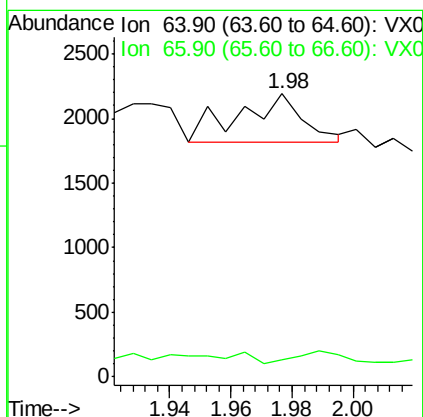
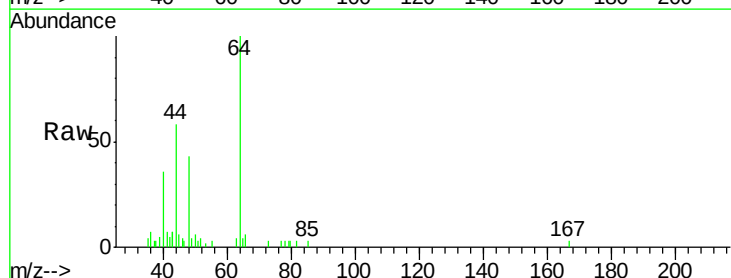
Acq: 26 Apr 2019 13:03

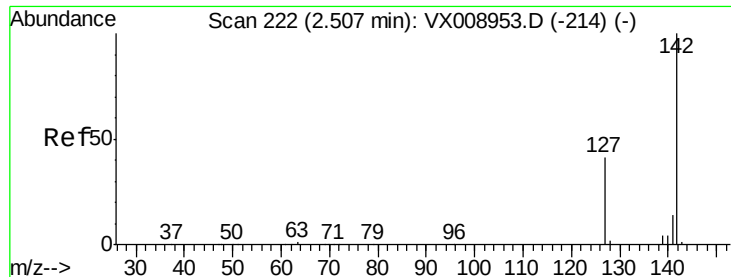
Tgt Ion: 64 Resp: 540

Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#

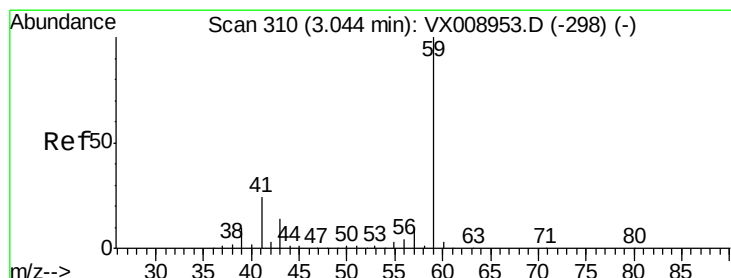
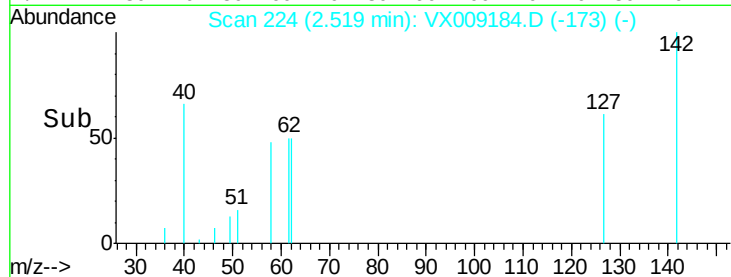
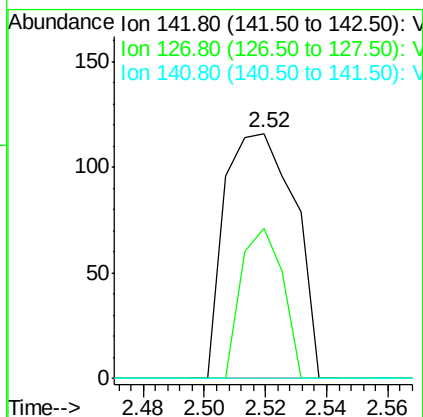
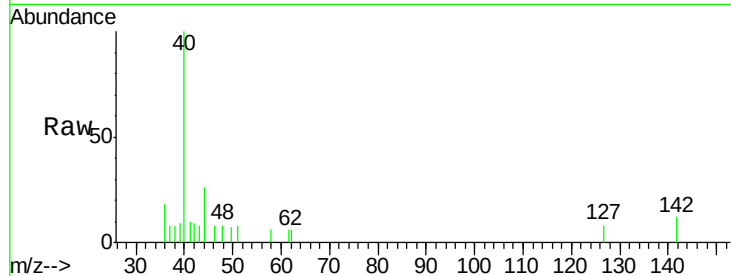




#10
Methvl Iodide
Concen: 4.484 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

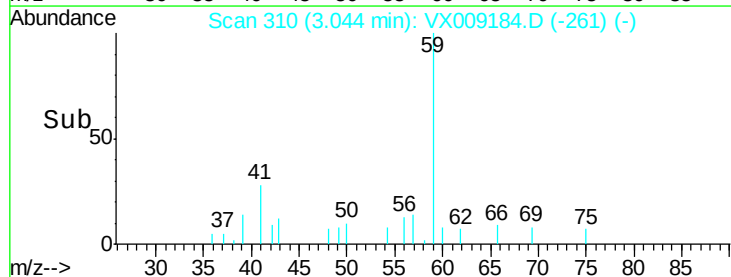
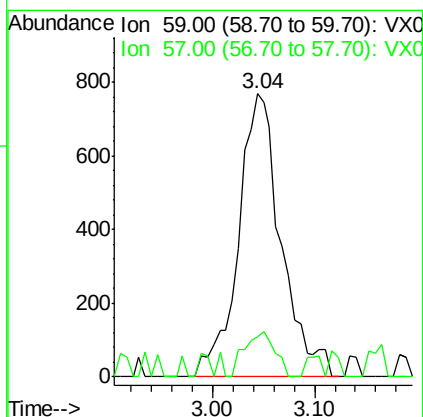
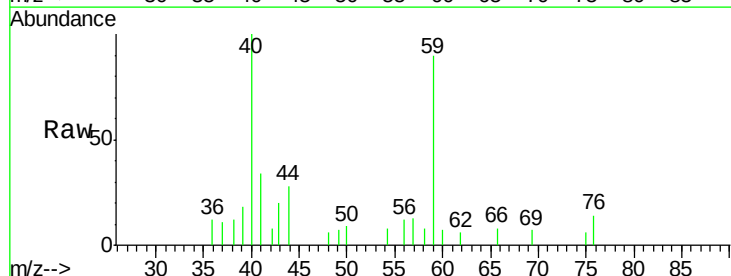
Instrument :
MSVOA_X
ClientSampled :
MW-03

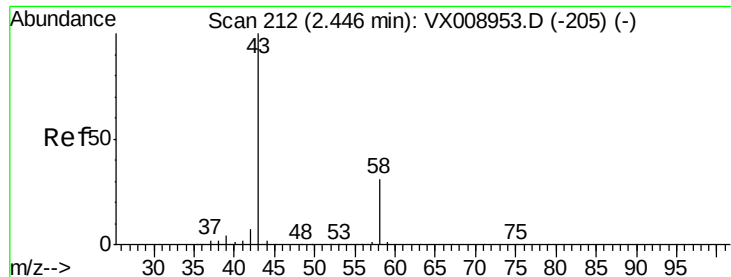
Tot Ion:142 Resp: 183
Ion Ratio Lower Upper
142 100
127 36.6 32.8 49.2
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 3.356 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion: 59 Resp: 2233
Ion Ratio Lower Upper
59 100
57 11.5 8.4 12.6





#16

Acetone

Concen: 4.749 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

Instrument :

MSVOA_X

ClientSampled :

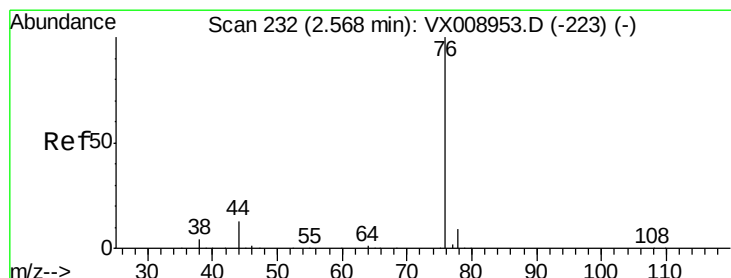
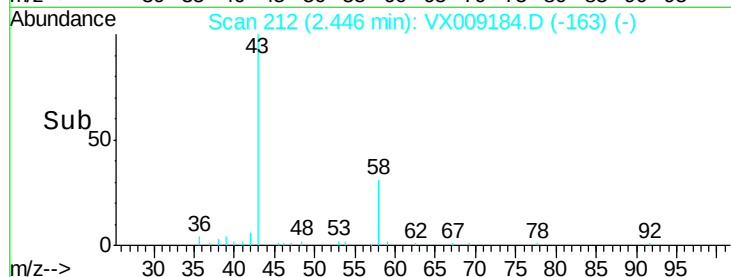
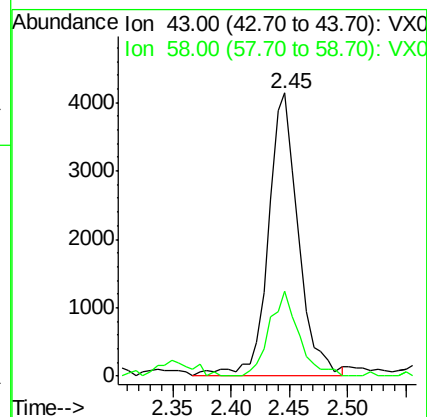
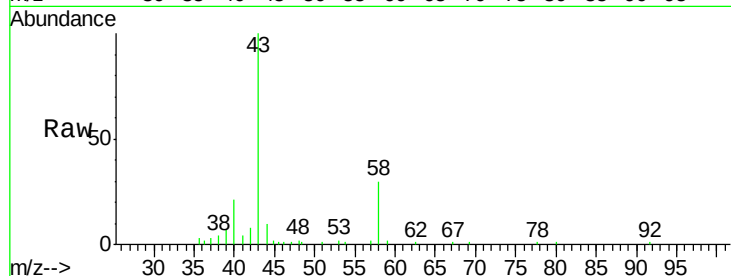
MW-03

Tot Ion: 43 Resp: 7383

Ion Ratio Lower Upper

43 100

58 30.2 24.8 37.2



#17

Carbon Disulfide

Concen: 1.445 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009184.D

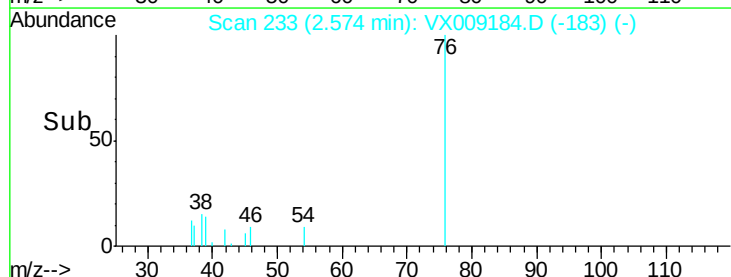
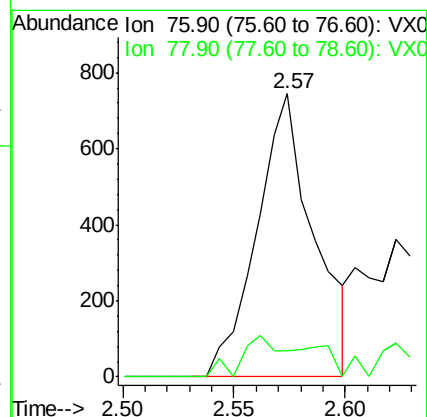
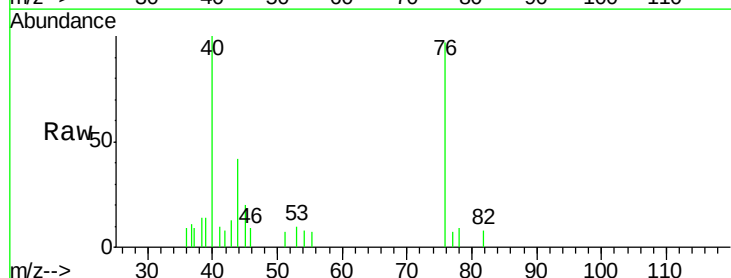
Acq: 26 Apr 2019 13:03

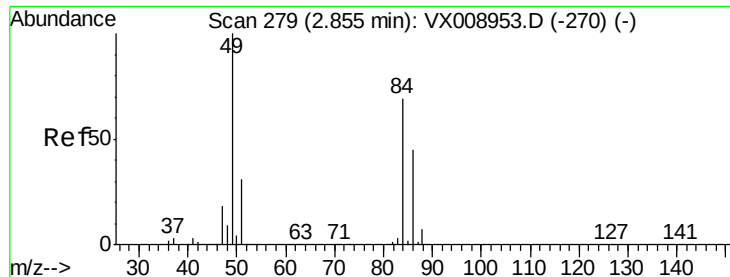
Tgt Ion: 76 Resp: 1324

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8

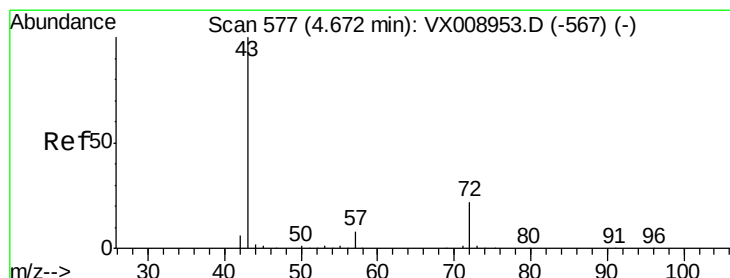
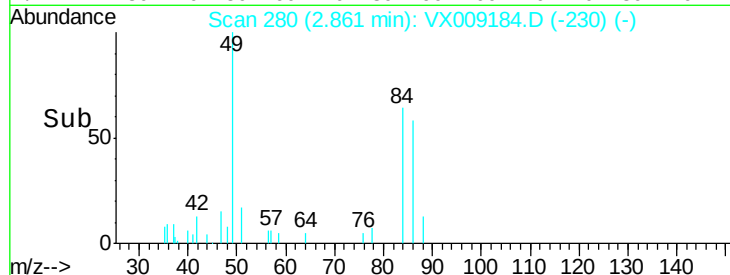
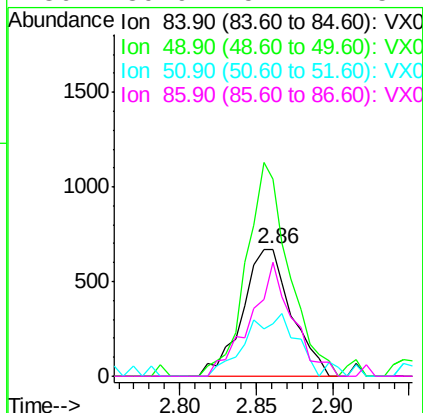
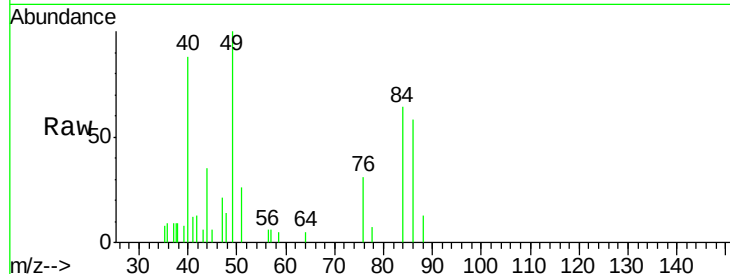




#20
Methvlene Chloride
Concen: 0.558 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

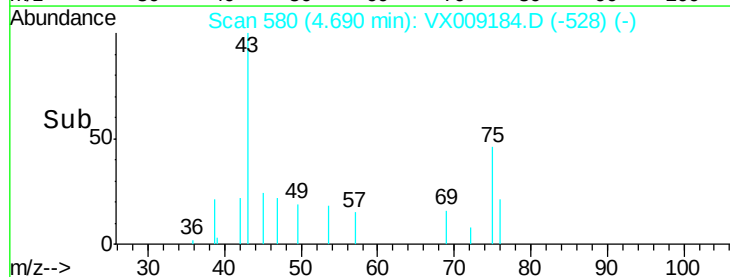
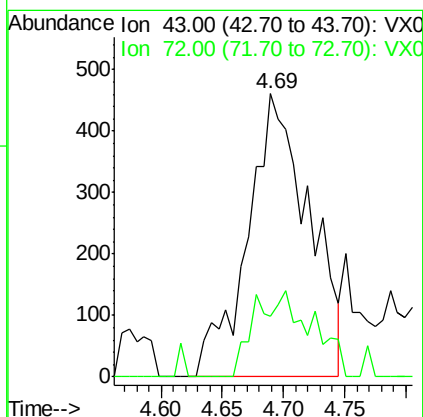
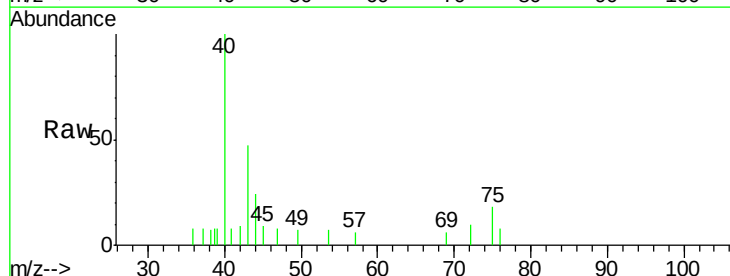
Instrument :
MSVOA_X
ClientSampled :
MW-03

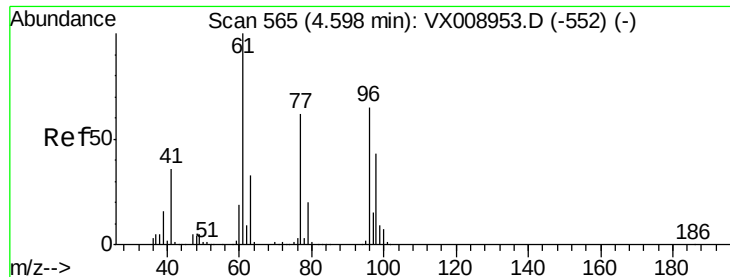
Tot Ion: 84 Resp: 1484
Ion Ratio Lower Upper
84 100
49 155.2 115.4 173.0
51 40.8 35.8 53.6
86 89.9 52.1 78.1#



#25
2-Butanone
Concen: 0.651 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion: 43 Resp: 1617
Ion Ratio Lower Upper
43 100
72 21.3 17.5 26.3



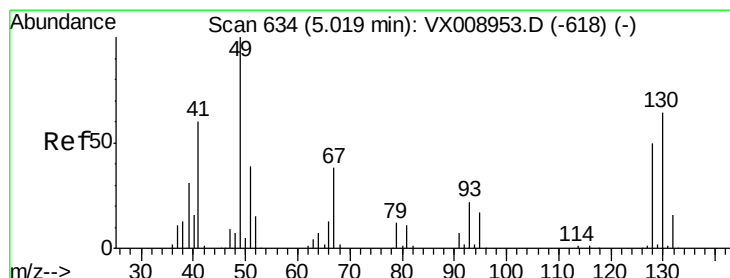
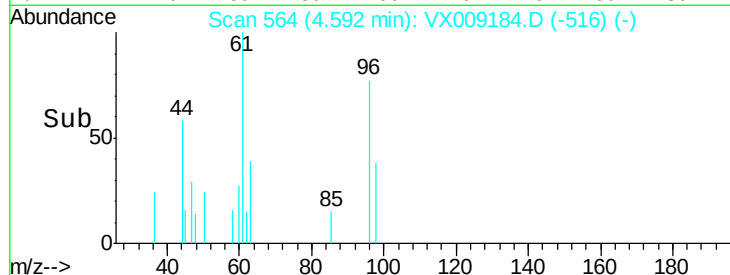
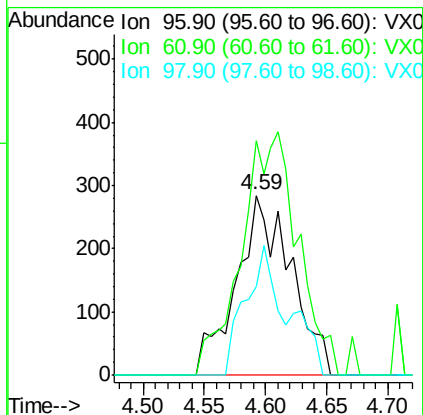
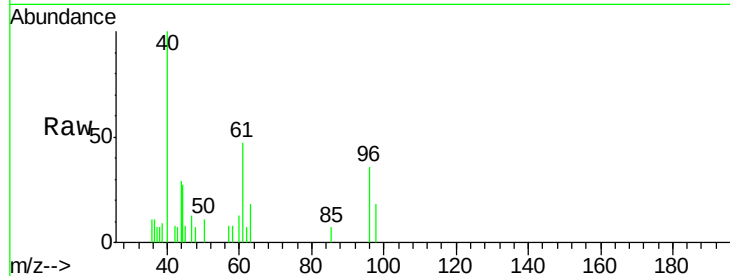


#27

cis-1,2-Dichloroethene
 Concen: 0.319 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

Instrument :
 MSVOA_X
 ClientSampled :
 MW-03

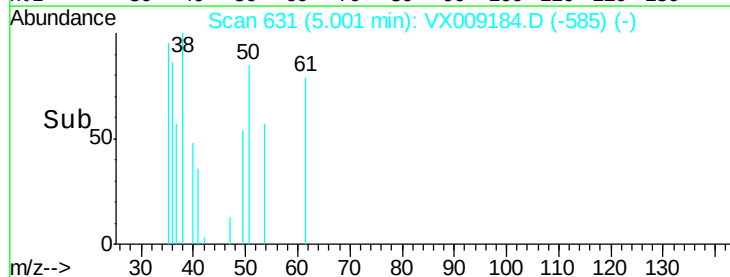
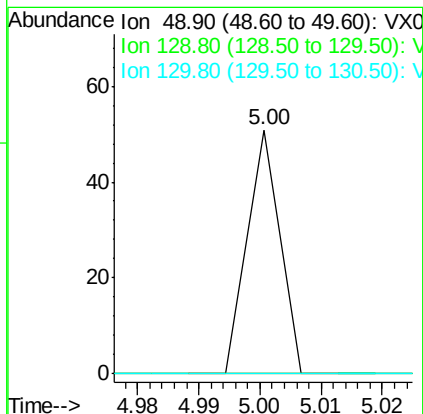
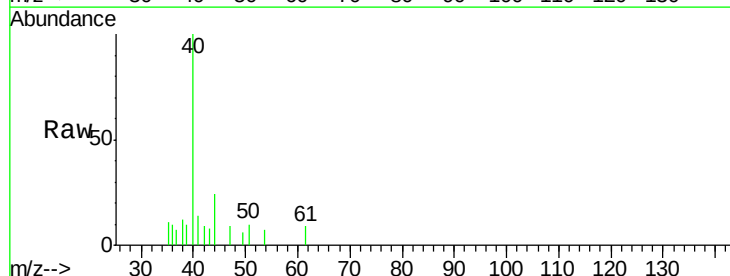
Tot Ion: 96 Resp: 880
 Ion Ratio Lower Upper
 96 100
 61 140.8 0.0 322.0
 98 41.7 0.0 128.4

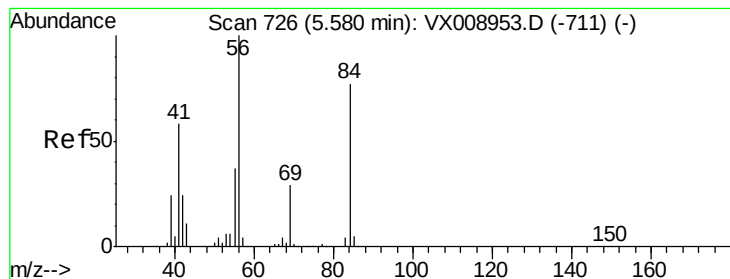


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.00 min Scan# 631
 Delta R.T. -0.02 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

Tgt Ion: 49 Resp: 19
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 0.0 50.4 75.6#





#31

Cyclohexane

Concen: 1.022 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

Instrument :

MSVOA_X

ClientSampleId :

MW-03

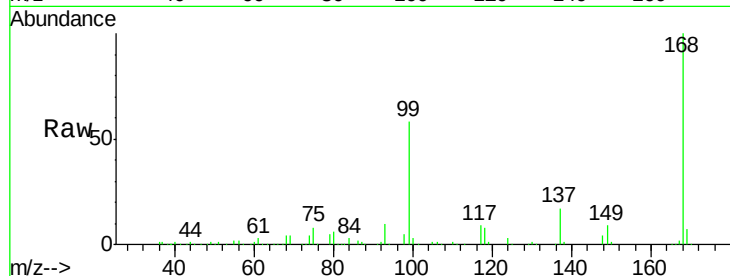
Tot Ion: 56 Resp: 4879

Ion Ratio Lower Upper

56 100

69 163.7 23.3 34.9#

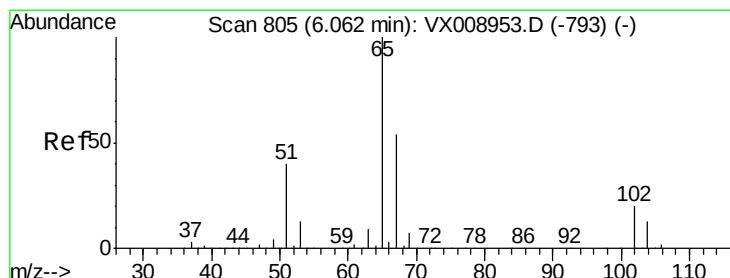
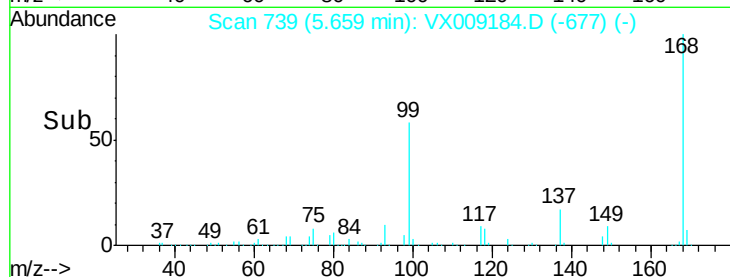
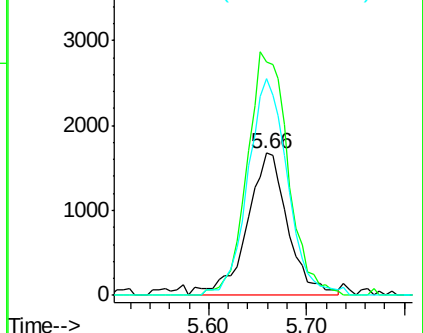
84 151.8 61.7 92.5#



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: 47.099 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009184.D

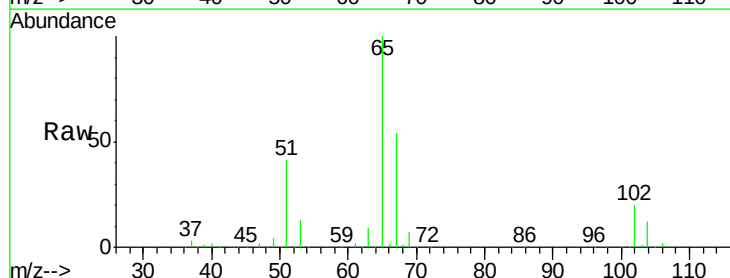
Acq: 26 Apr 2019 13:03

Tgt Ion: 65 Resp: 141190

Ion Ratio Lower Upper

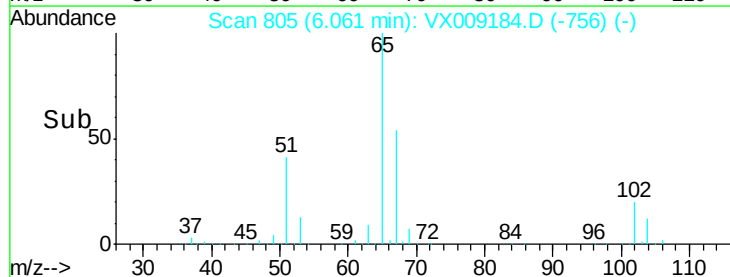
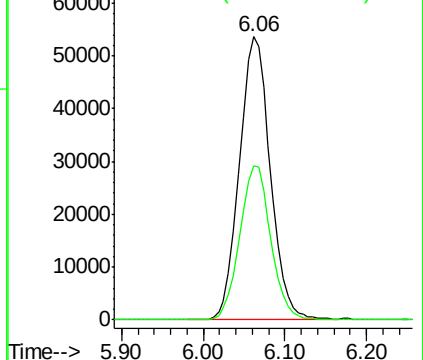
65 100

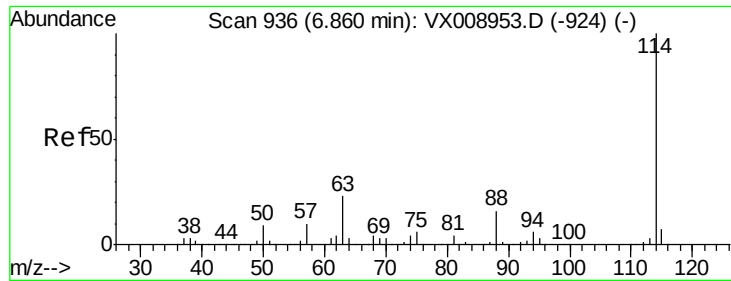
67 54.6 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

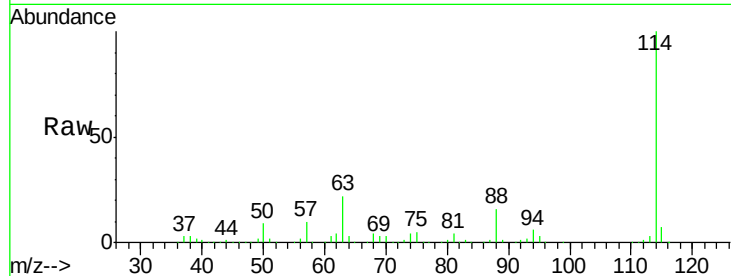




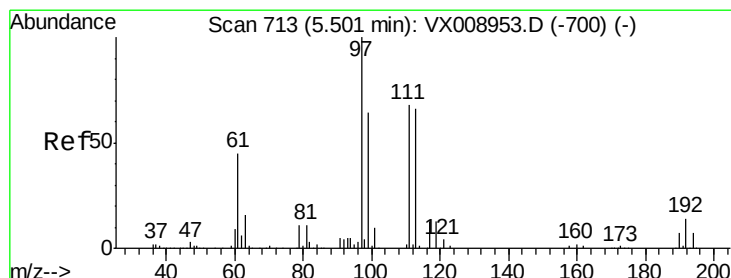
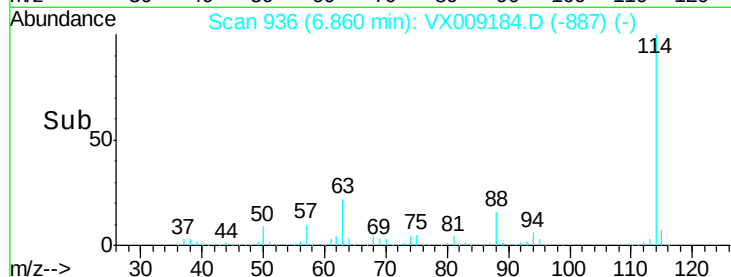
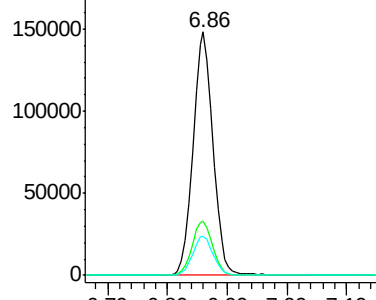
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-03

Tot Ion:114 Resp: 344824
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 46.0
 88 16.1 0.0 32.6

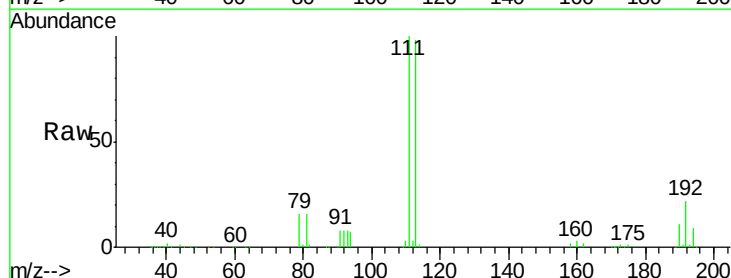


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

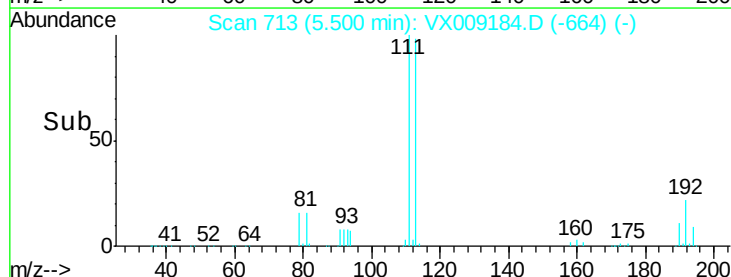
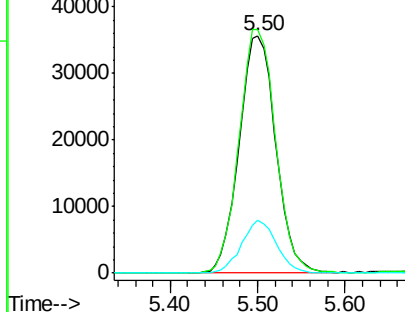


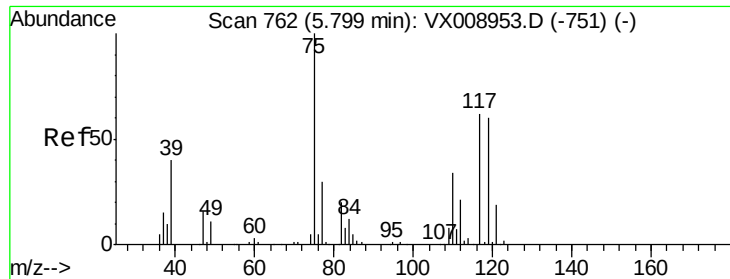
#35
 Dibromofluoromethane
 Concen: 47.040 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

Tgt Ion:113 Resp: 104099
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 21.3 17.4 26.0



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

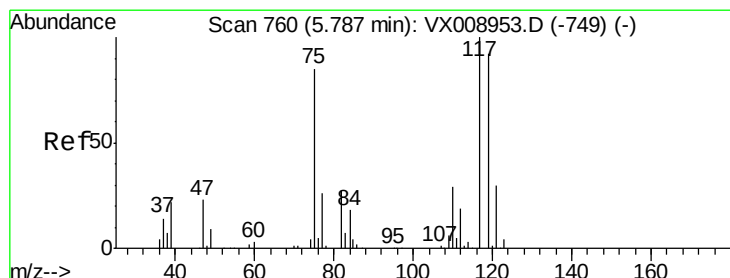
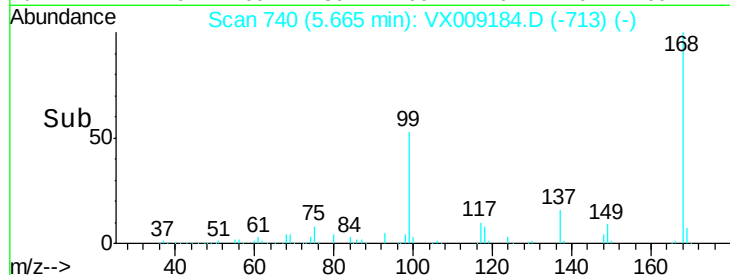
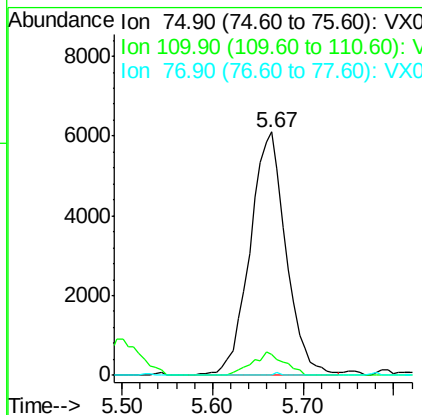
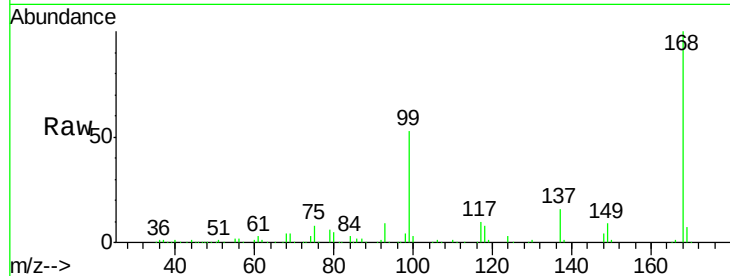




#36
 1,1-Dichloropropene
 Concen: 4.711 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

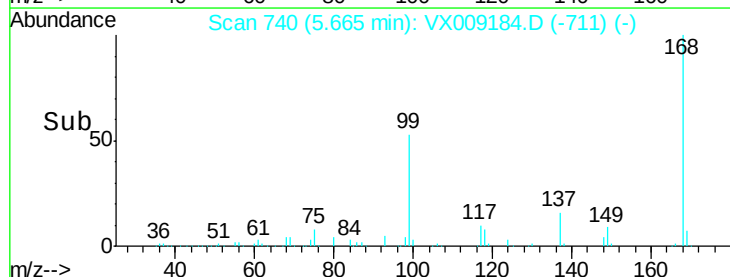
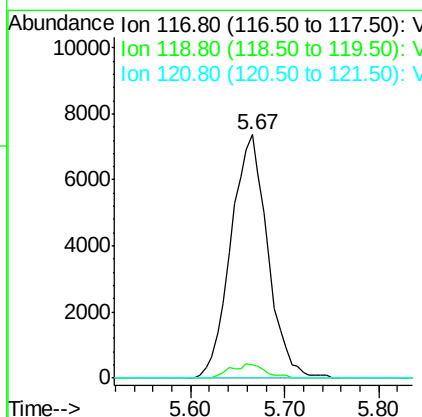
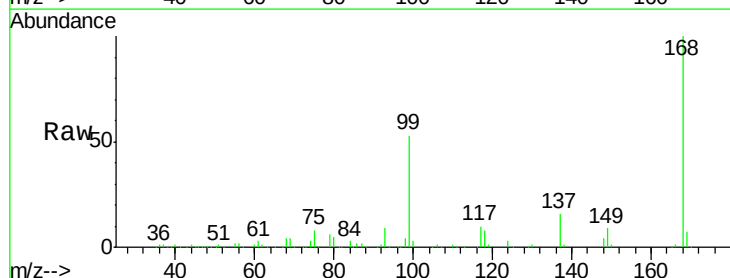
Instrument :
 MSVOA_X
 ClientSampled :
 MW-03

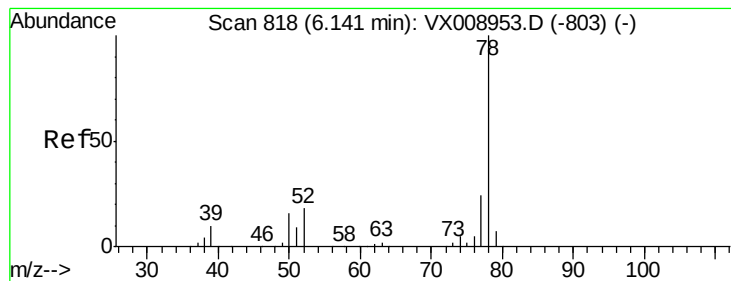
Tot Ion	75	Resp	16801
Ion Ratio	100	Lower	Upper
75	100		
110	8.6	16.9	50.7#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.616 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

Tgt Ion	117	Resp	20001
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.7	73.8	110.8#
121	0.0	23.6	35.4#





#40

Benzene

Concen: 0.909 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

Instrument :

MSVOA_X

ClientSampleId :

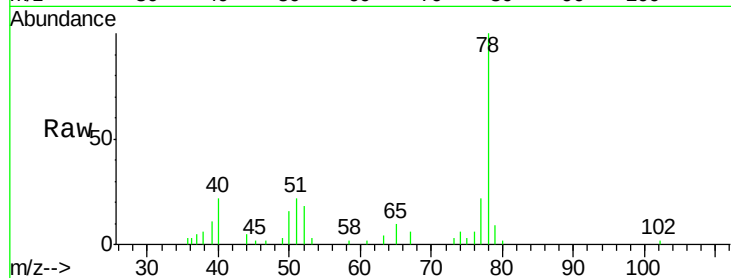
MW-03

Tot Ion: 78 Resp: 9567

Ion Ratio Lower Upper

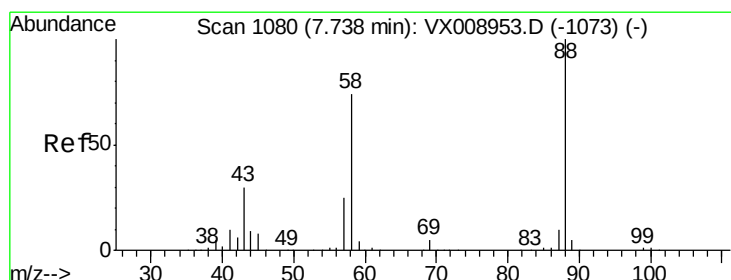
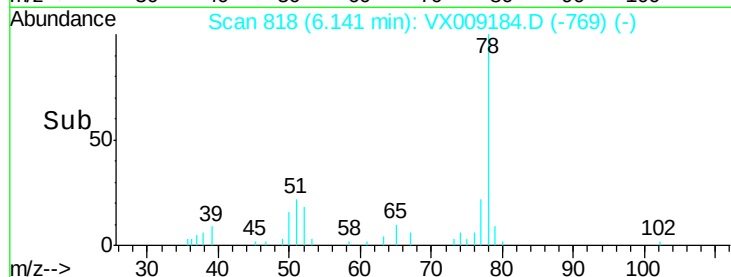
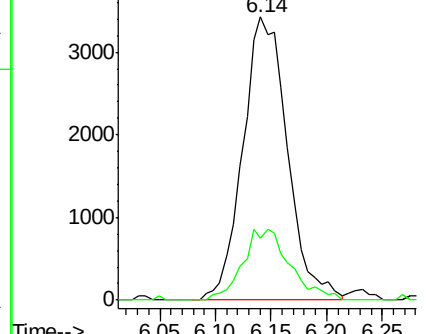
78 100

77 22.0 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#49

1,4-Dioxane

Concen: 0.292 ug/l

RT: 7.57 min Scan# 1052

Delta R.T. -0.17 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

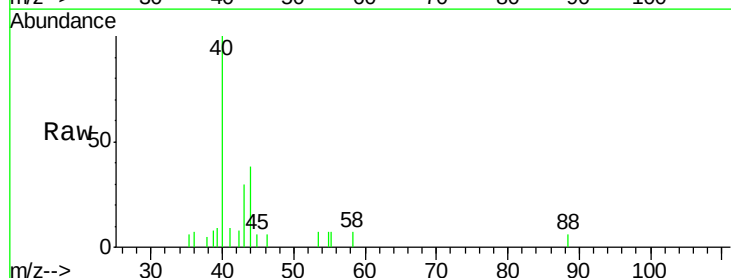
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 2595.0 29.3 43.9#

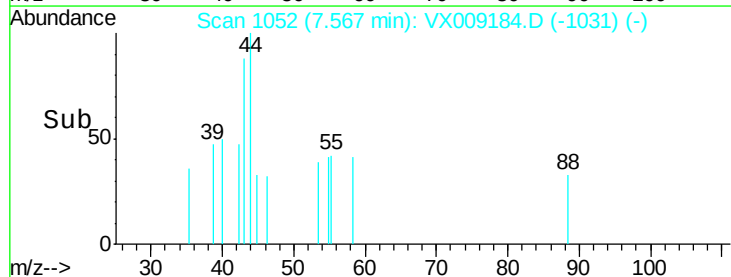
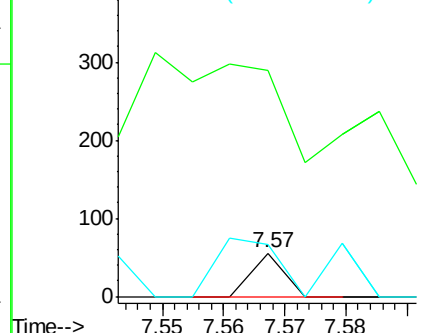
58 385.0 62.6 93.8#

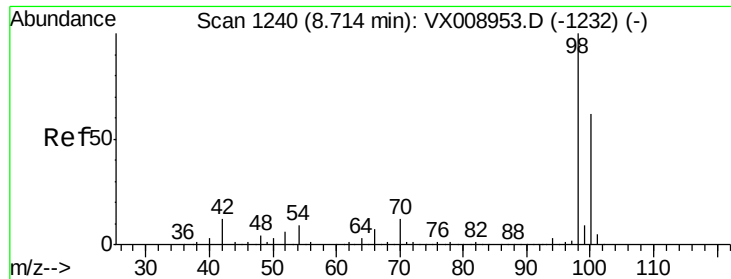


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

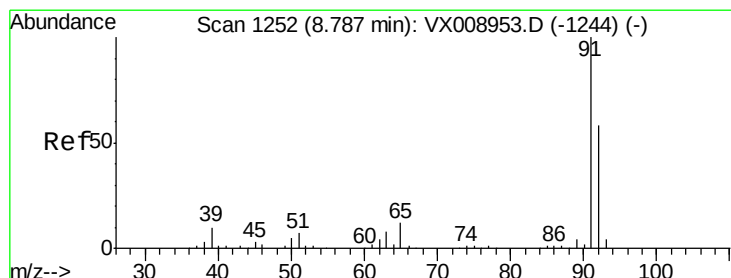
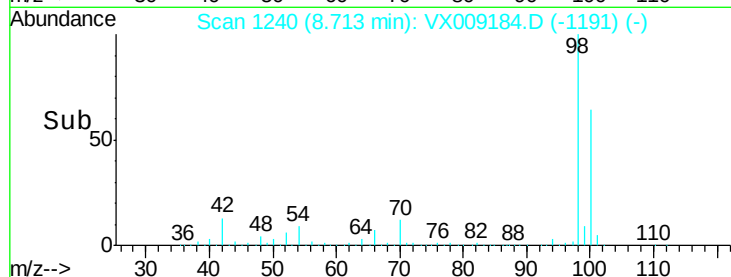
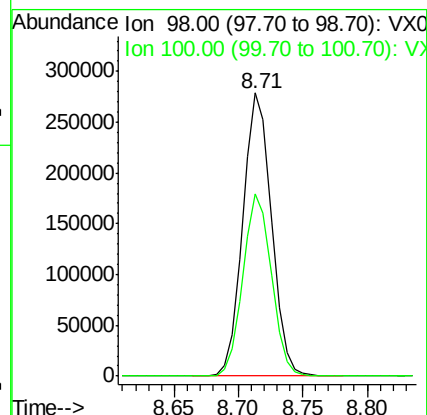
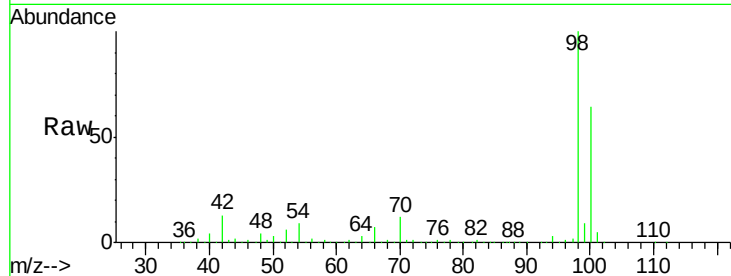




#50
Toluene-d8
Concen: 48.565 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

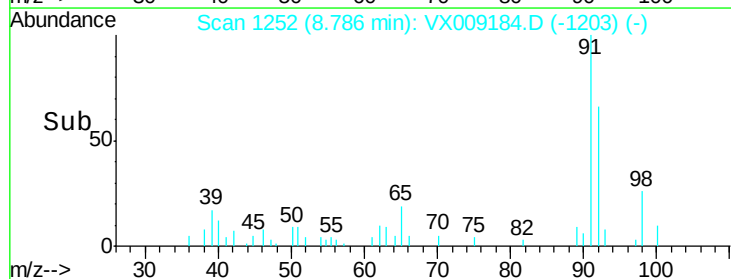
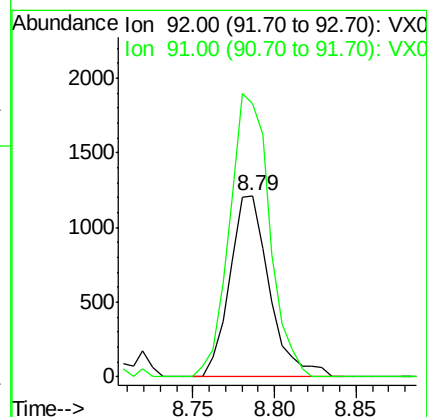
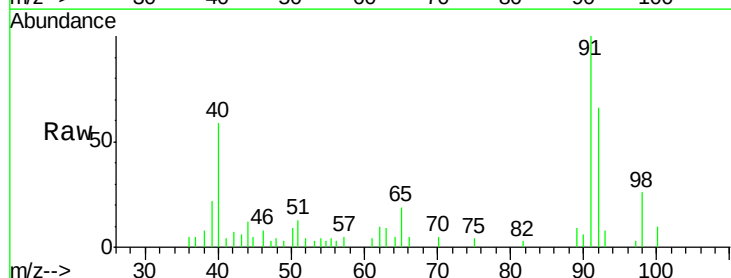
Instrument :
MSVOA_X
ClientSampled :
MW-03

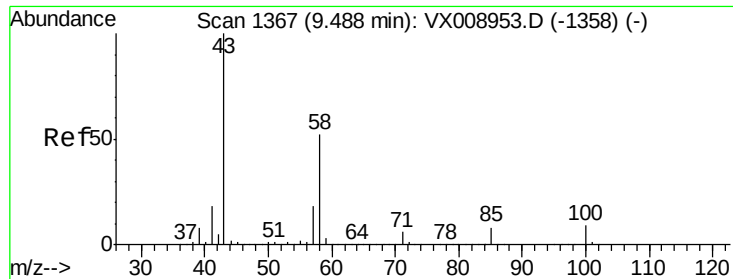
Tot Ion: 98 Resp: 428613
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.2



#52
Toluene
Concen: 0.325 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion: 92 Resp: 2049
Ion Ratio Lower Upper
92 100
91 157.8 138.5 207.7

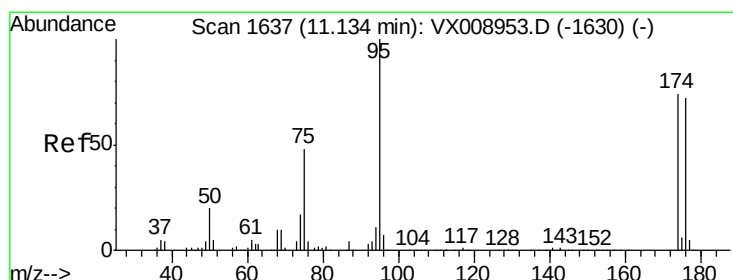
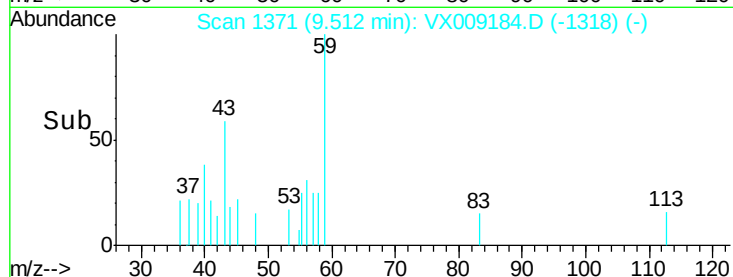
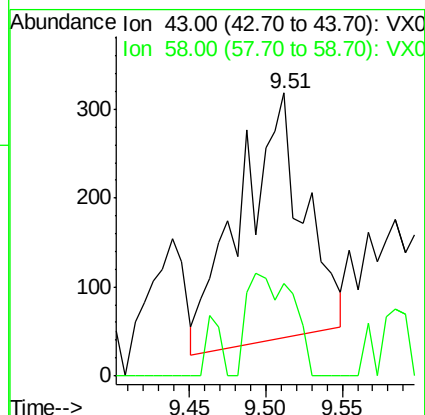
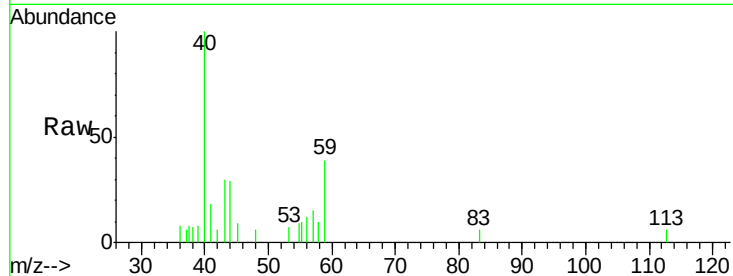




#59
2-Hexanone
Concen: 0.222 ug/l
RT: 9.51 min Scan# 1371
Delta R.T. 0.02 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

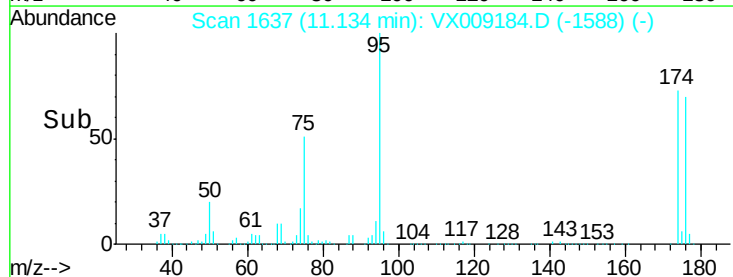
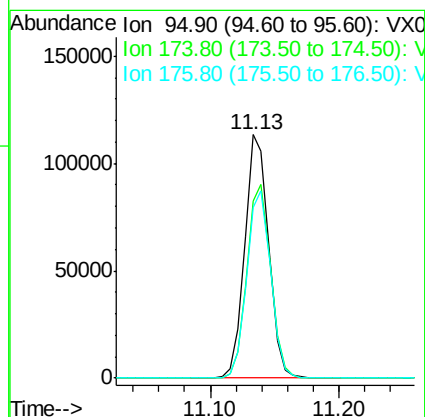
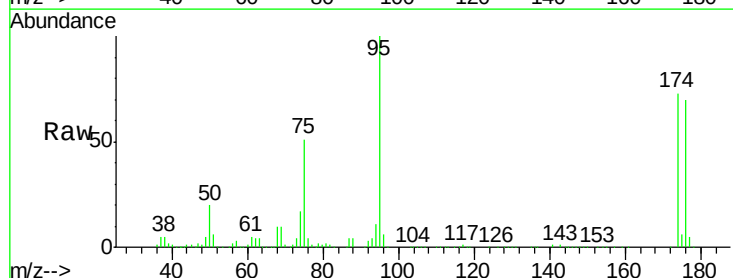
Instrument :
MSVOA_X
ClientSampled :
MW-03

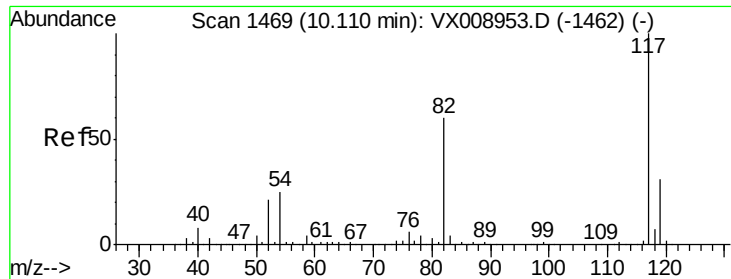
Tot Ion: 43 Resp: 807
Ion Ratio Lower Upper
43 100
58 29.9 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 46.279 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion: 95 Resp: 144179
Ion Ratio Lower Upper
95 100
174 79.4 0.0 159.6
176 77.0 0.0 154.8

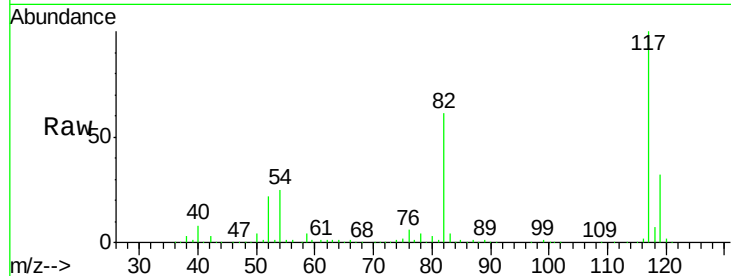




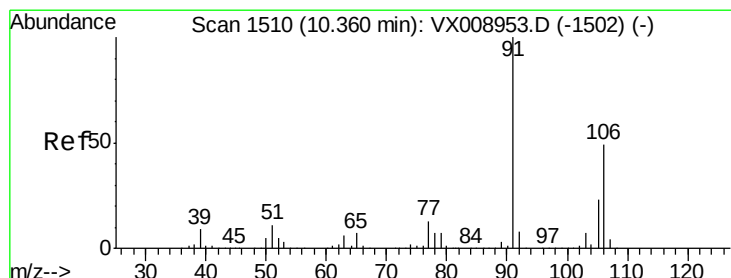
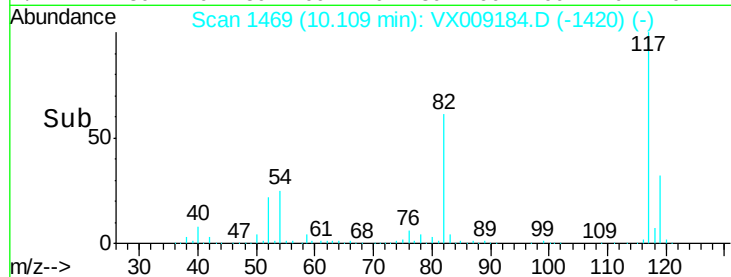
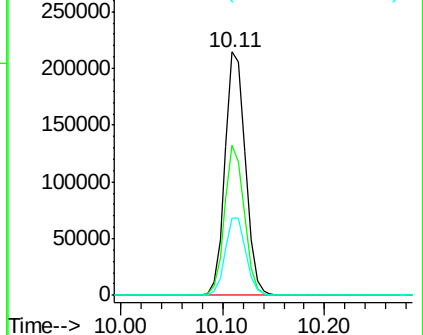
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Instrument :
MSVOA_X
ClientSampled :
MW-03

Tot Ion:117 Resp: 296828
Ion Ratio Lower Upper
117 100
82 61.4 48.2 72.4
119 31.7 25.0 37.6

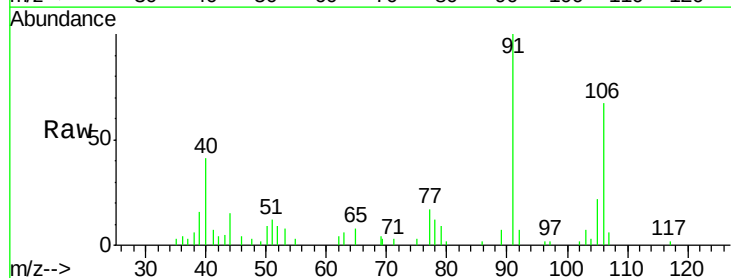


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

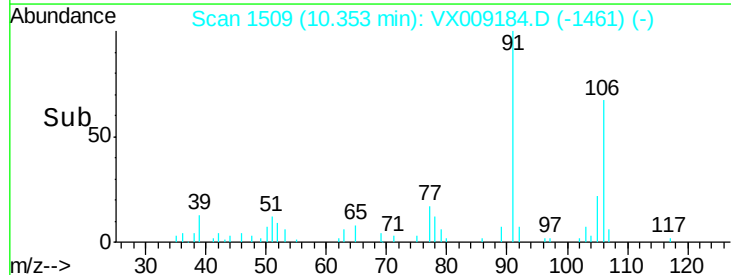
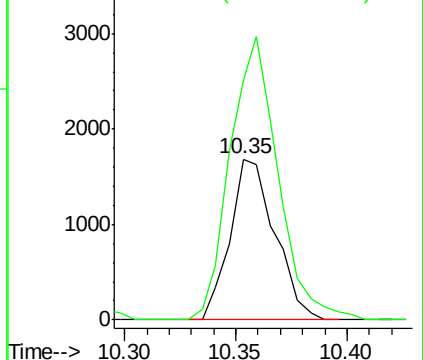


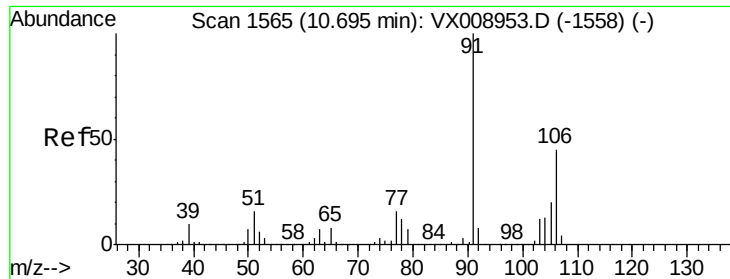
#68
m/p-Xylenes
Concen: 0.567 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion:106 Resp: 2358
Ion Ratio Lower Upper
106 100
91 188.5 165.4 248.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

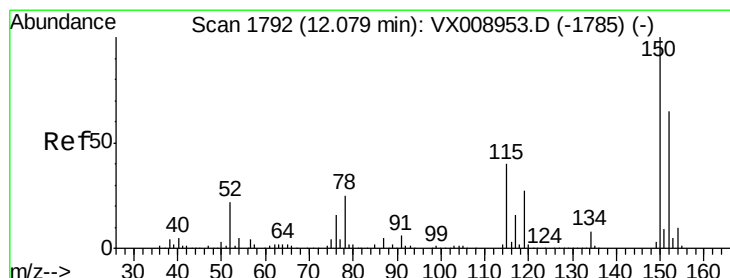
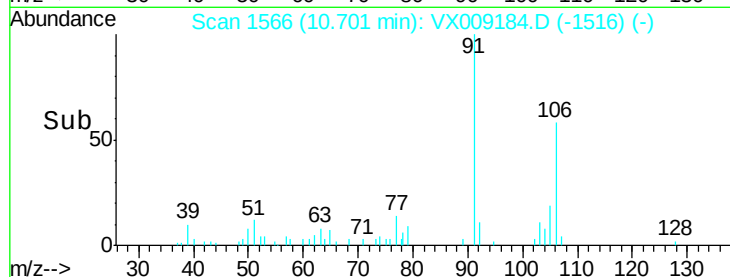
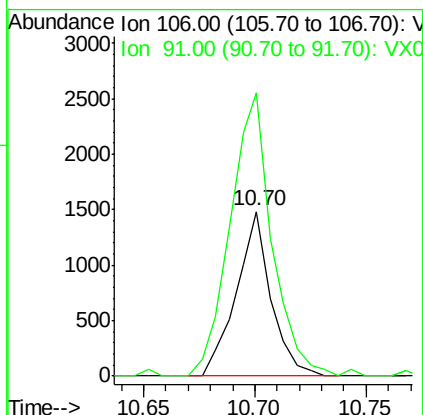
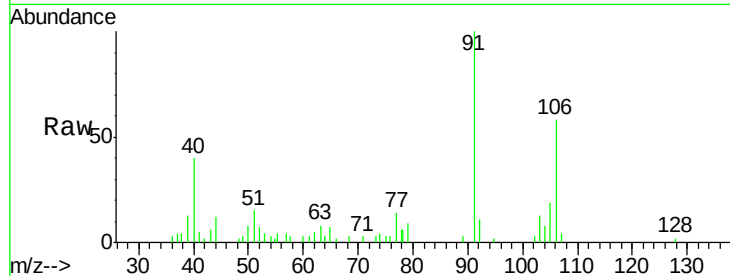




#69
o-Xylene
Concen: 0.398 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

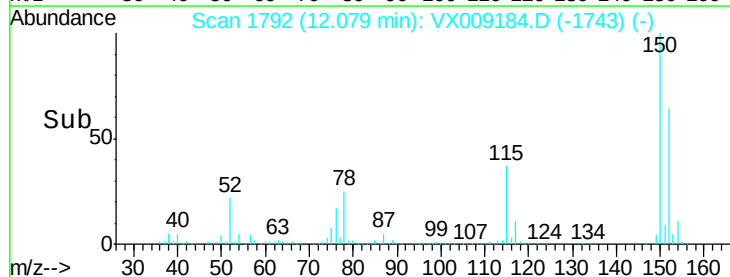
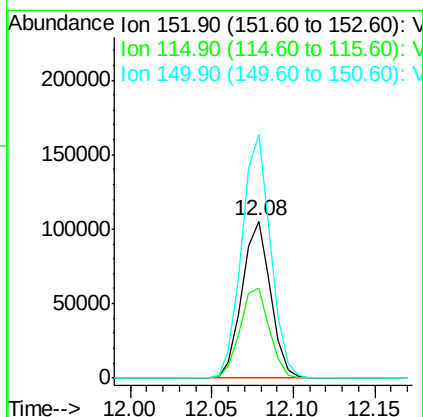
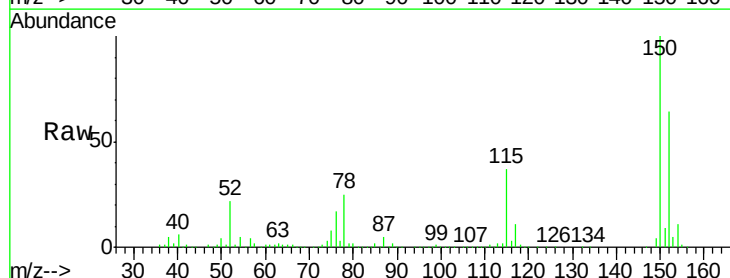
Instrument :
MSVOA_X
ClientSampled :
MW-03

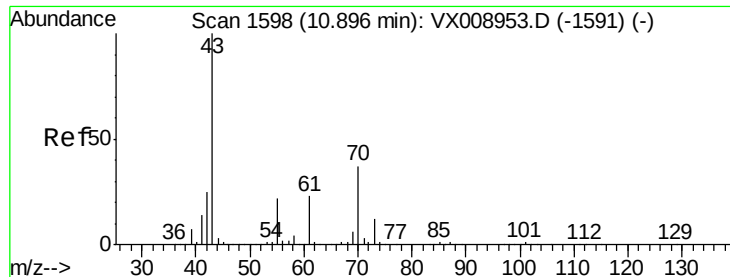
Tot Ion:106 Resp: 1610
Ion Ratio Lower Upper
106 100
91 207.6 108.9 326.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion:152 Resp: 128744
Ion Ratio Lower Upper
152 100
115 59.2 41.4 124.2
150 156.5 0.0 349.8





#74

N-amvl acetate

Concen: 0.480 ug/l

RT: 10.93 min Scan# 1604

Delta R.T. 0.04 min

Lab File: VX009184.D

Acq: 26 Apr 2019 13:03

Instrument :

MSVOA_X

ClientSampled :

MW-03

Tot Ion: 43 Resp: 2688

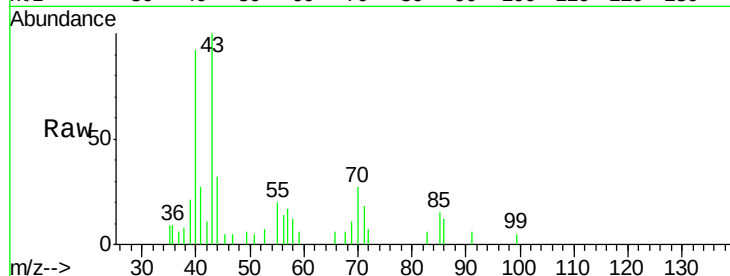
Ion Ratio Lower Upper

43 100

70 23.9 29.9 44.9#

55 15.0 17.8 26.8#

61 0.0 18.3 27.5#

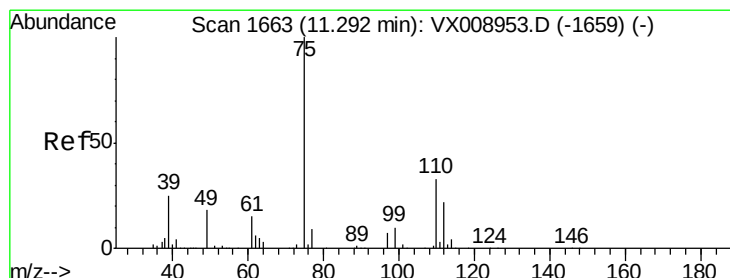
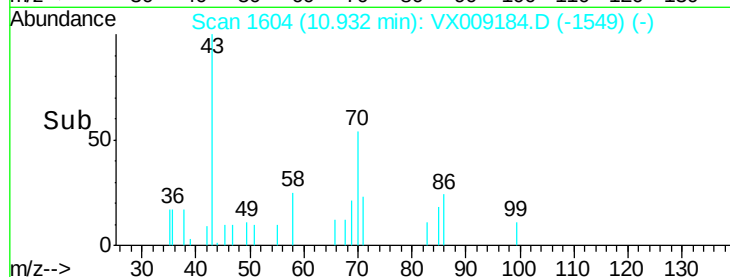
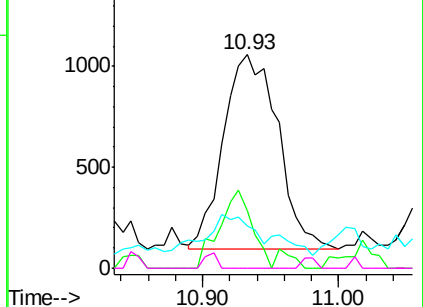


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.140 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009184.D

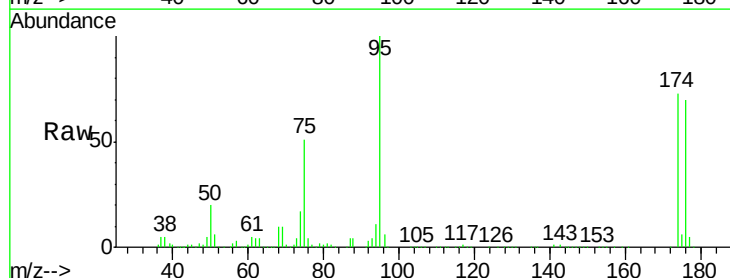
Acq: 26 Apr 2019 13:03

Tgt Ion: 75 Resp: 72744

Ion Ratio Lower Upper

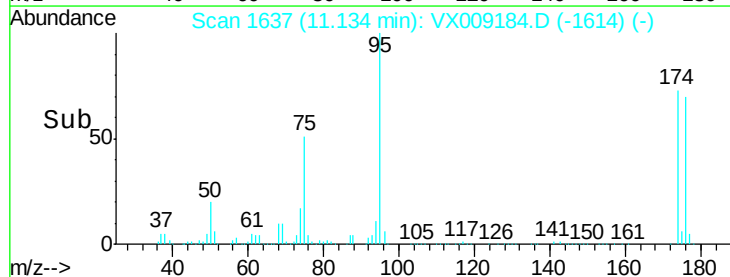
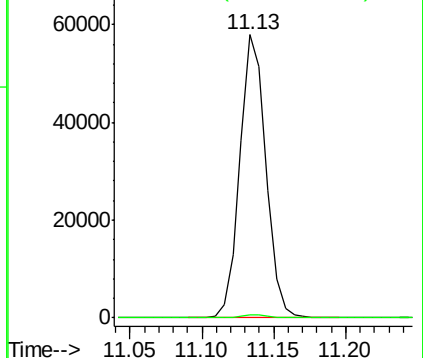
75 100

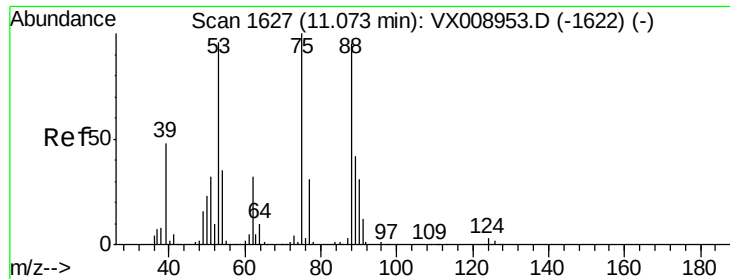
77 1.4 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

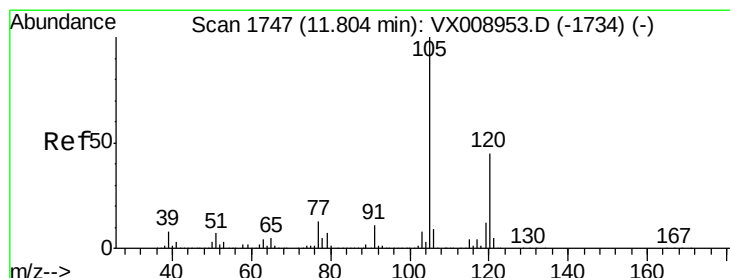
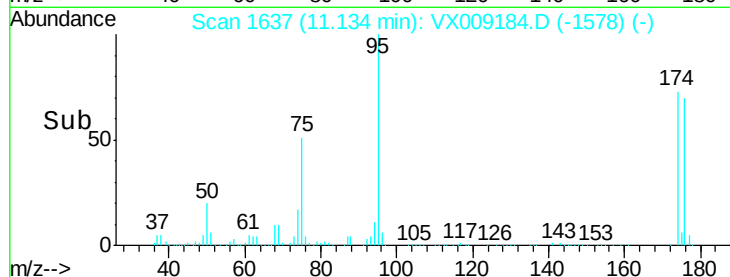
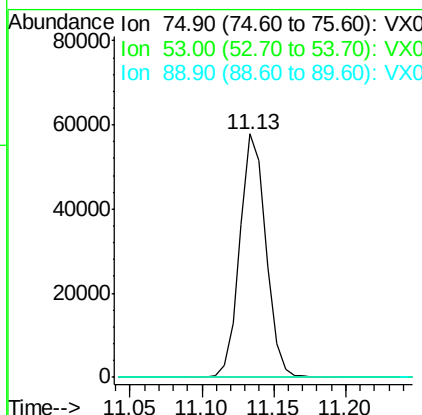
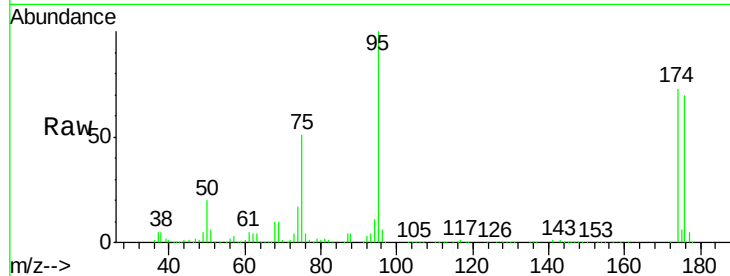




#81
trans-1,4-Dichloro-2-butene
Concen: 59.406 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

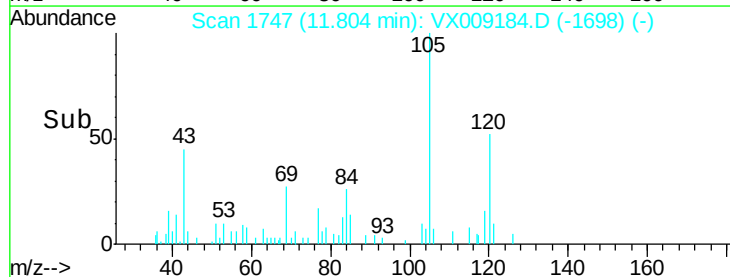
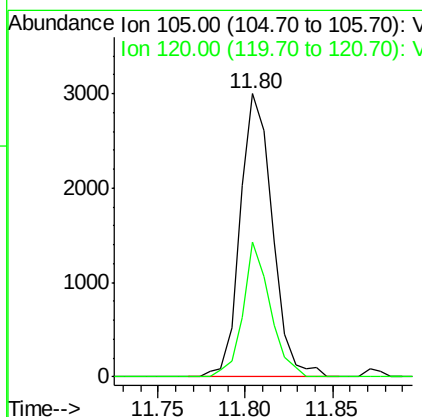
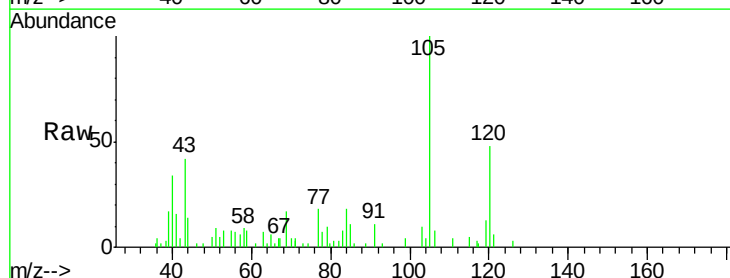
Instrument :
MSVOA_X
ClientSampleId :
MW-03

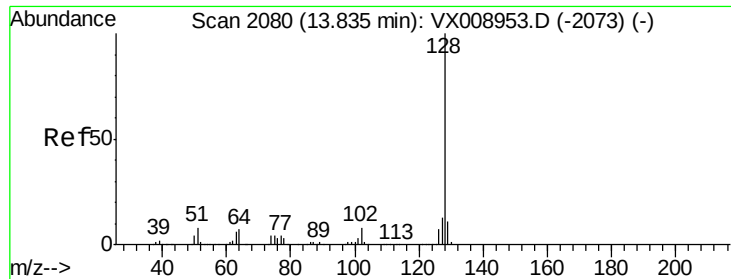
Tot Ion: 75 Resp: 72744
Ion Ratio Lower Upper
75 100
53 0.2 78.2 117.4#
89 0.0 36.0 54.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.460 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX009184.D
Acq: 26 Apr 2019 13:03

Tgt Ion: 105 Resp: 3832
Ion Ratio Lower Upper
105 100
120 40.2 21.9 65.8

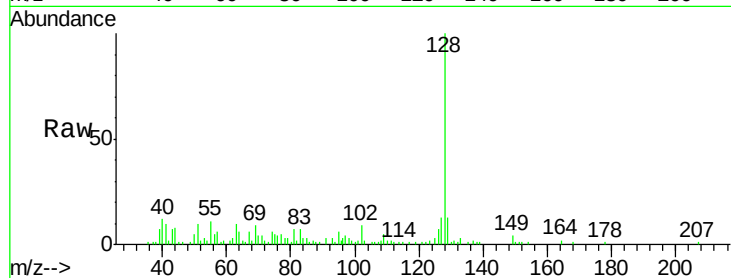




#95
 Naphthalene
 Concen: 1.045 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX009184.D
 Acq: 26 Apr 2019 13:03

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-03

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.1	10.6	16.0
129	12.9	8.6	13.0



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

