

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122218\
 Data File : VX006777.D
 Acq On : 22 Dec 2018 17:29
 Operator : JC/MD
 Sample : J6497-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Dec 24 04:26:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	626287	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	981346	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	900934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	420041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	342216	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
35) Dibromofluoromethane	5.51	113	295972	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	8.71	98	1157210	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	11.13	95	411580	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	

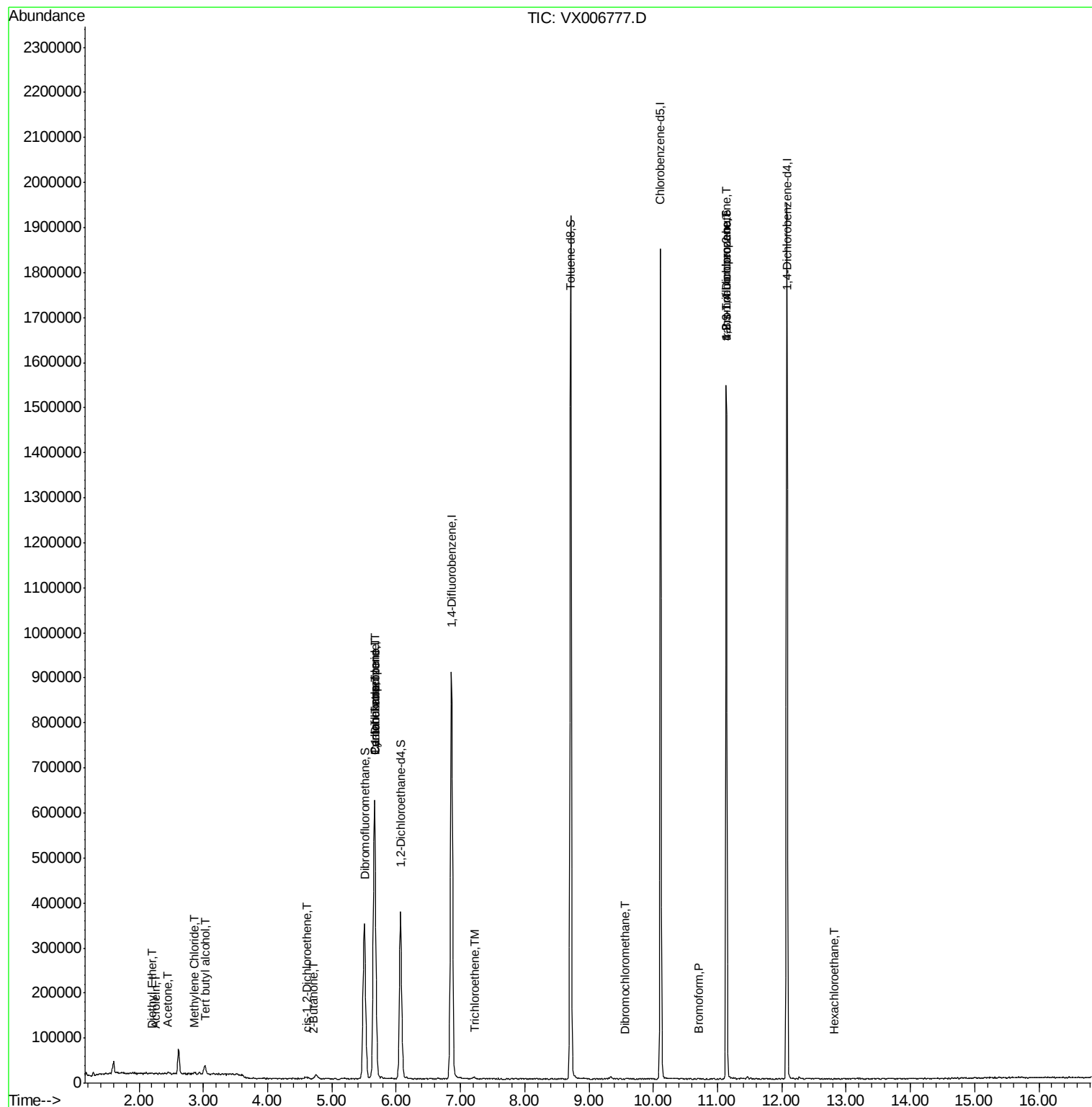
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	506	Below Cal	#	46
8) Diethyl Ether	2.20	74	973	0.244	ug/l	73
11) Tert butyl alcohol	3.02	59	13221	8.777	ug/l #	78
13) Acrolein	2.27	56	360	0.354	ug/l #	38
16) Acetone	2.45	43	5089	1.641	ug/l #	77
20) Methylene Chloride	2.85	84	1813	0.283	ug/l #	75
25) 2-Butanone	4.71	43	901	0.207	ug/l #	80
27) cis-1,2-Dichloroethene	4.60	96	2845	0.416	ug/l	71
28) Bromochloromethane	5.01	49	148	Below Cal	#	1
31) Cyclohexane	5.66	56	10977	1.175	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	42578	5.239	ug/l #	39
38) Carbon Tetrachloride	5.66	117	59741	7.563	ug/l #	14
44) Trichloroethene	7.21	130	1934	0.259	ug/l	68
49) 1,4-Dioxane	7.76	88	41	Below Cal	#	1
60) Dibromochloromethane	9.56	129	48	2.331	ug/l	55
71) Bromoform	10.71	173	115	4.479	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	192651	24.679	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	192651	72.981	ug/l #	10
90) Hexachloroethane	12.81	117	99	3.316	ug/l	65

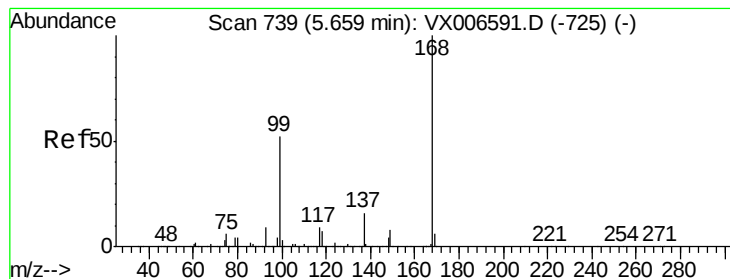
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

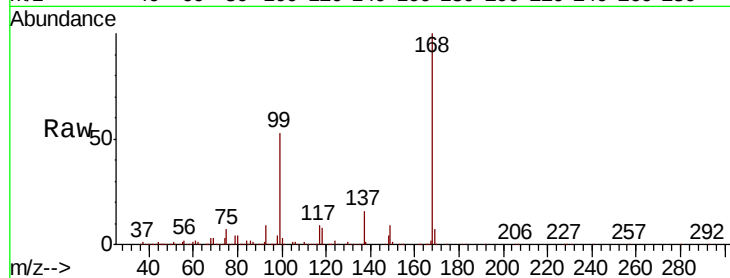
MW-4

Tot Ion:168 Resp: 626287

Ion Ratio Lower Upper

168 100

99 52.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

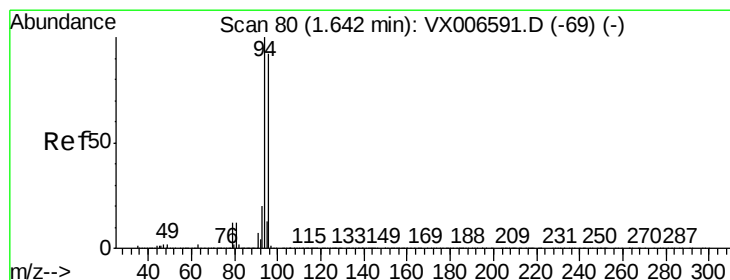
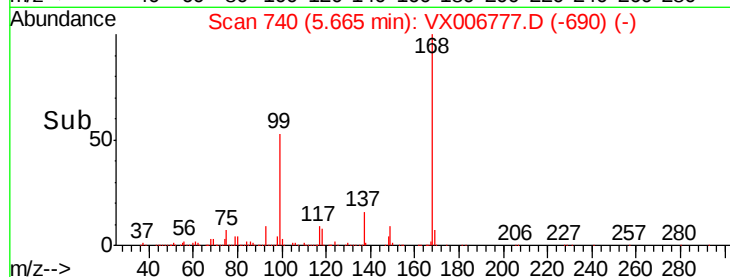
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006777.D

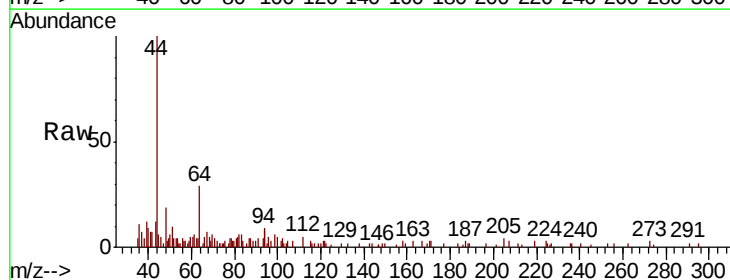
Acq: 22 Dec 2018 17:29

Tgt Ion: 94 Resp: 506

Ion Ratio Lower Upper

94 100

96 40.3 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

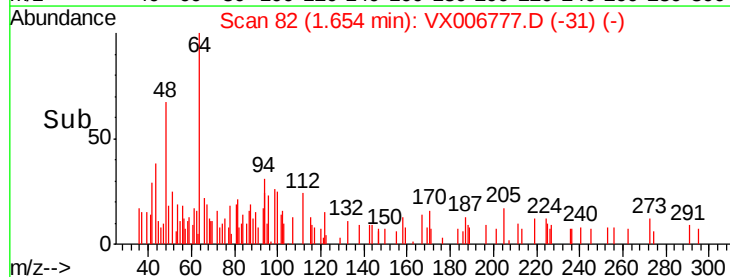
600

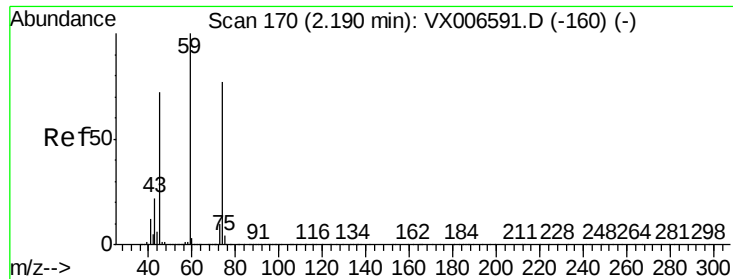
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.244 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampleId :

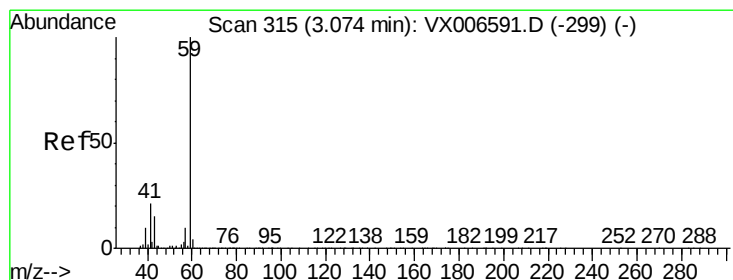
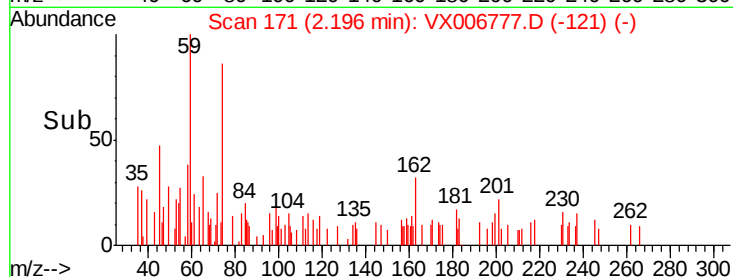
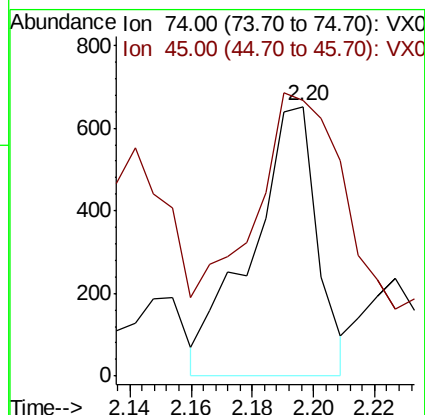
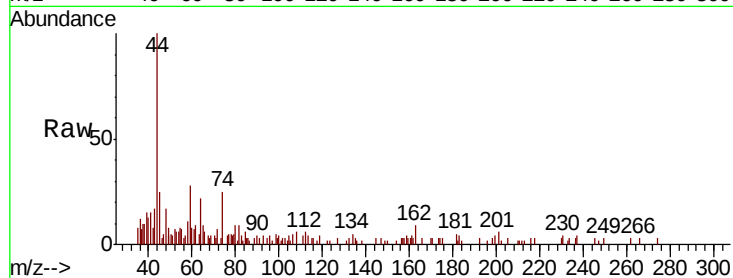
MW-4

Tot Ion: 74 Resp: 973

Ion Ratio Lower Upper

74 100

45 118.0 46.3 138.9



#11

Tert butyl alcohol

Concen: 8.777 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006777.D

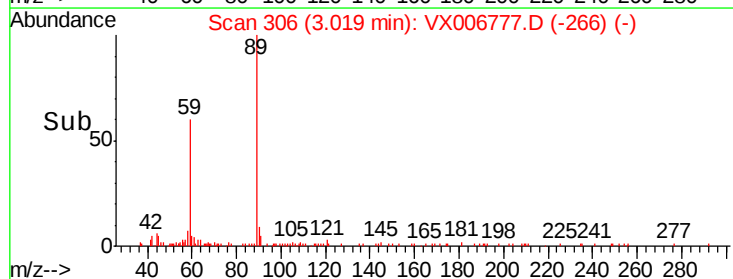
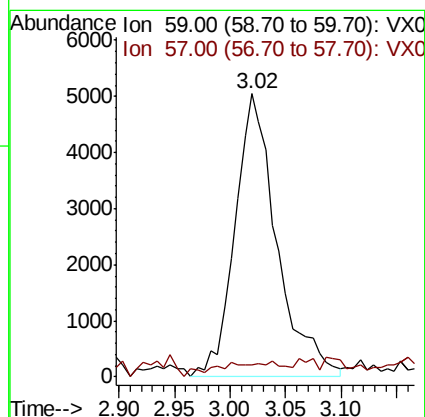
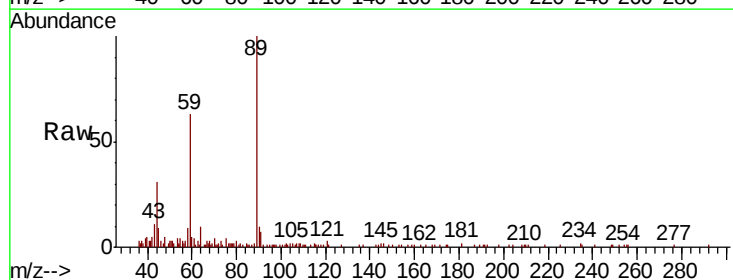
Acq: 22 Dec 2018 17:29

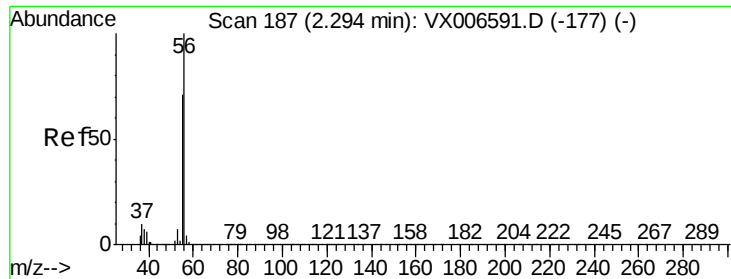
Tgt Ion: 59 Resp: 13221

Ion Ratio Lower Upper

59 100

57 2.4 8.5 12.7#





#13

Acrolein

Concen: 0.354 ug/l

RT: 2.27 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

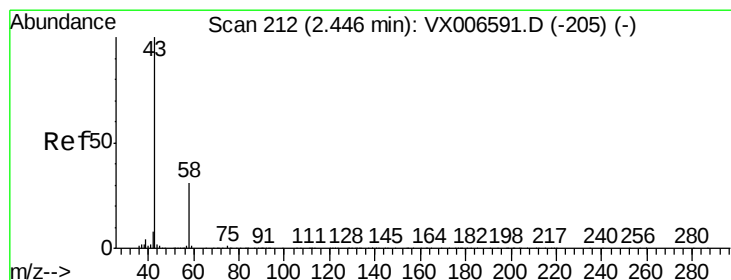
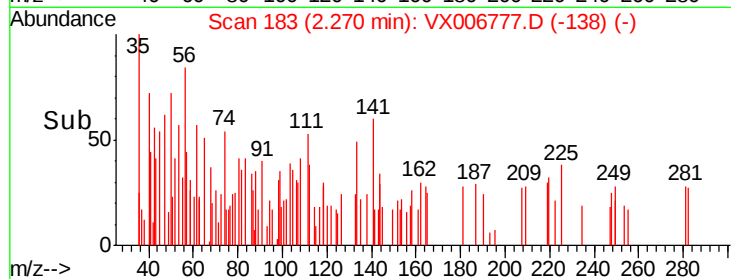
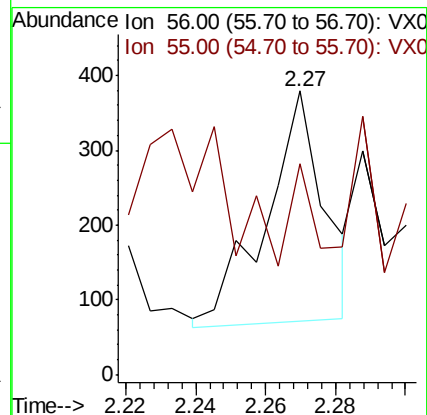
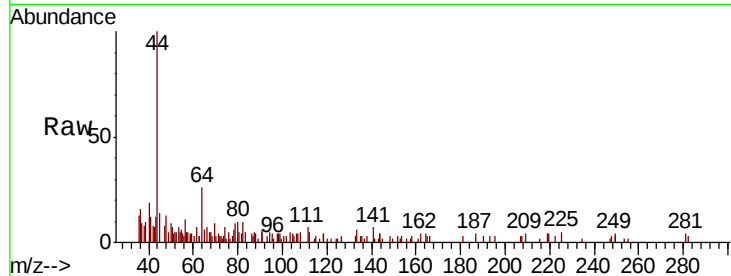
MW-4

Tot Ion: 56 Resp: 360

Ion Ratio Lower Upper

56 100

55 21.1 58.2 87.4#



#16

Acetone

Concen: 1.641 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006777.D

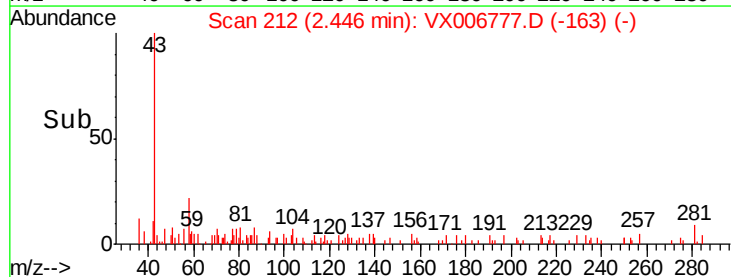
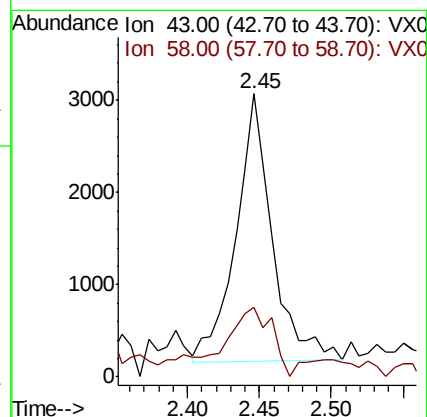
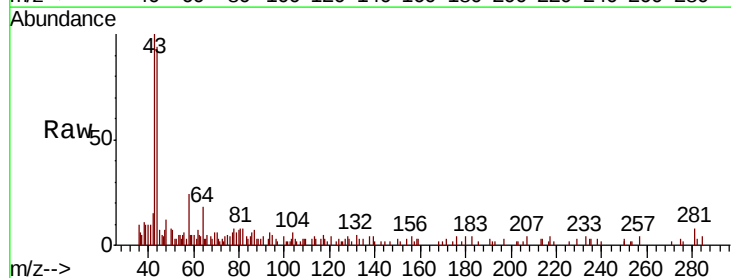
Acq: 22 Dec 2018 17:29

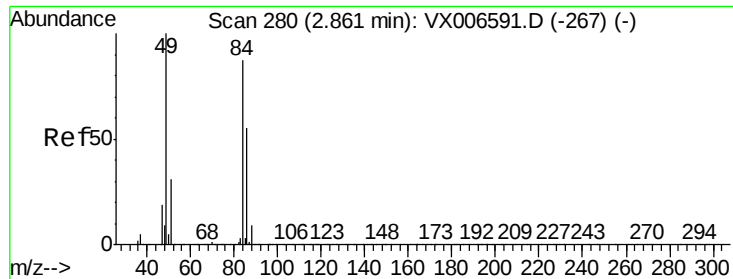
Tgt Ion: 43 Resp: 5089

Ion Ratio Lower Upper

43 100

58 18.5 25.0 37.6#

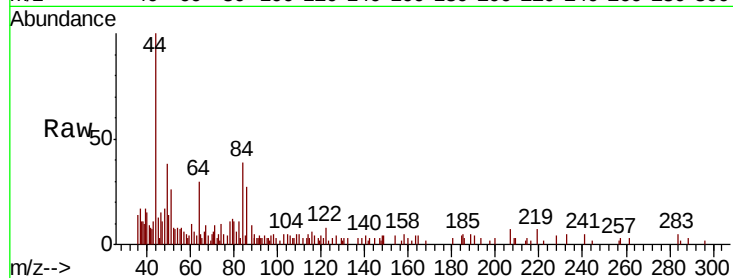




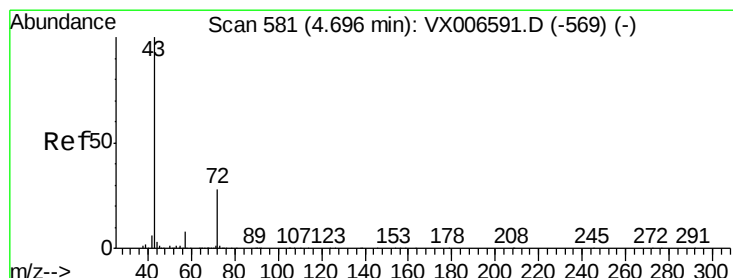
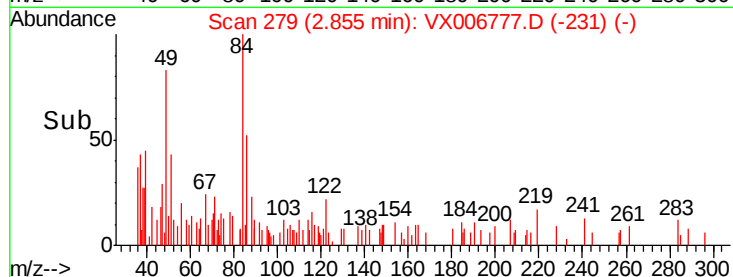
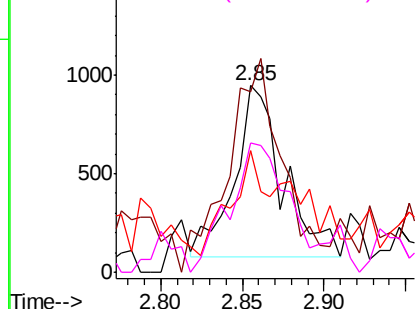
#20
Methvlene Chloride
Concen: 0.283 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Tot Ion:	84	Resp:	1813
Ion	Ratio	Lower	Upper
84	100		
49	80.2	91.8	137.6#
51	56.3	28.5	42.7#
86	67.8	50.2	75.2

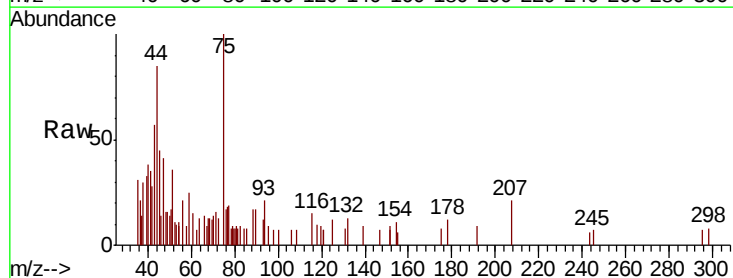


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

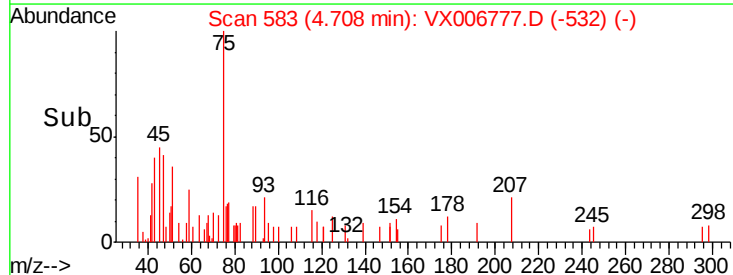
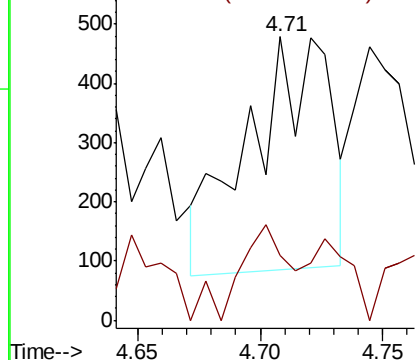


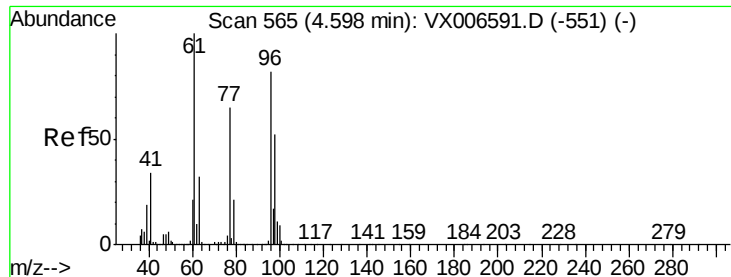
#25
2-Butanone
Concen: 0.207 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

Tgt Ion:	43	Resp:	901
Ion	Ratio	Lower	Upper
43	100		
72	38.4	22.4	33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



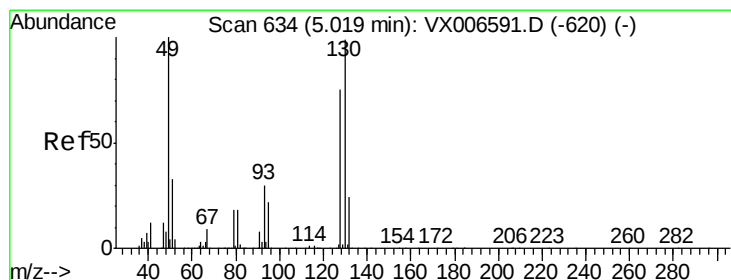
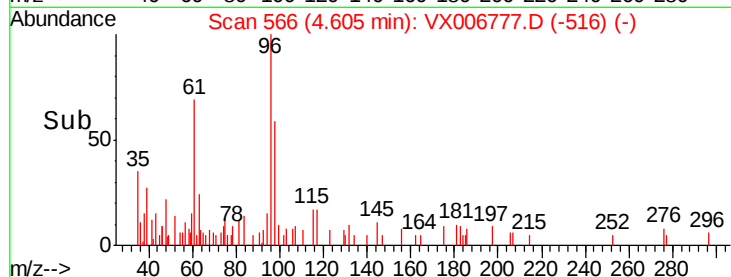
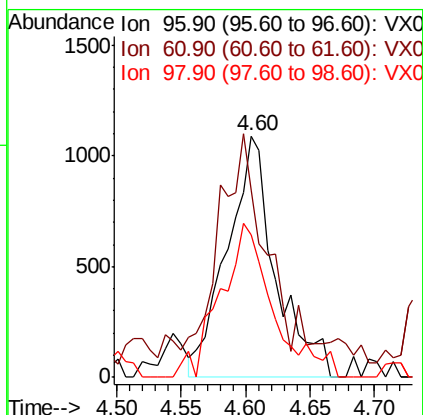
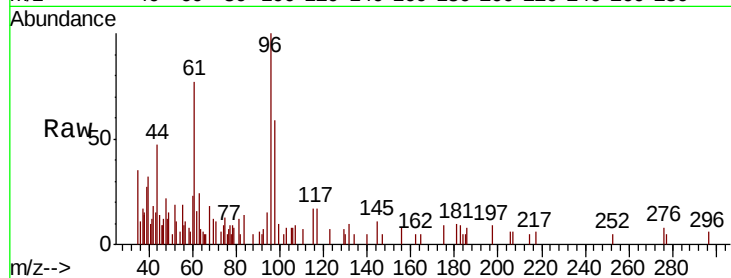


#27

cis-1,2-Dichloroethene
 Concen: 0.416 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX006777.D
 Acq: 22 Dec 2018 17:29

Instrument :
 MSVOA_X
 ClientSampled :
 MW-4

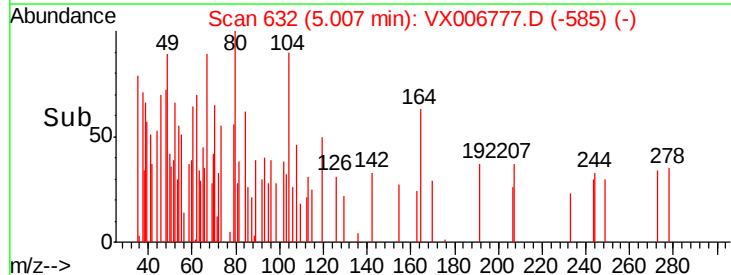
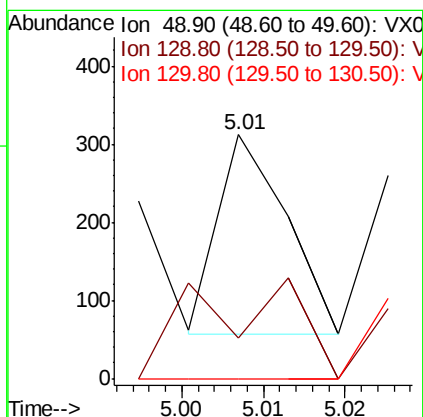
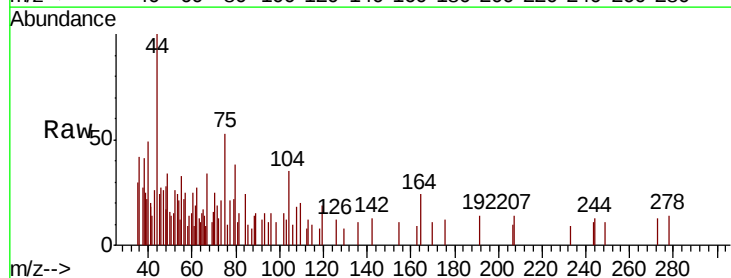
Tot Ion	Ratio	Lower	Upper
96	100		
61	81.5	0.0	258.6
98	69.3	0.0	132.0

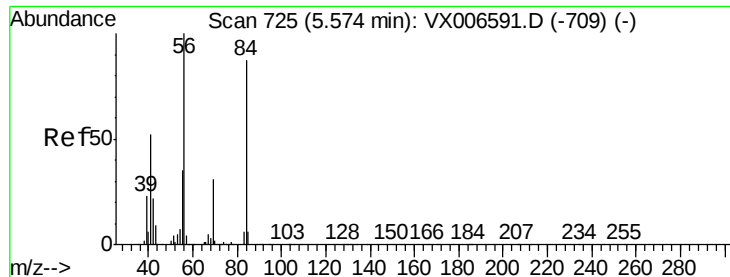


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: VX006777.D
 Acq: 22 Dec 2018 17:29

Tgt Ion	Ratio	Lower	Upper
49	100		
129	75.0	0.0	5.4#
130	0.0	77.7	116.5#

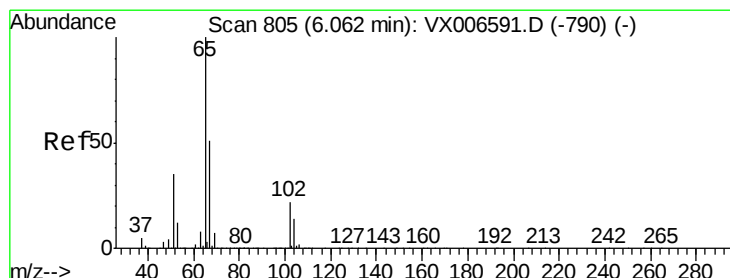
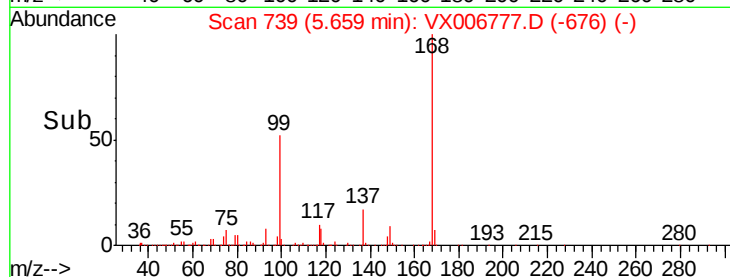
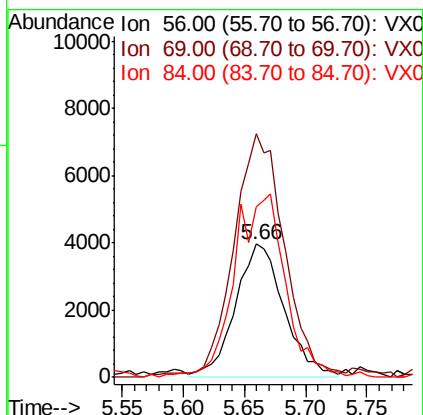
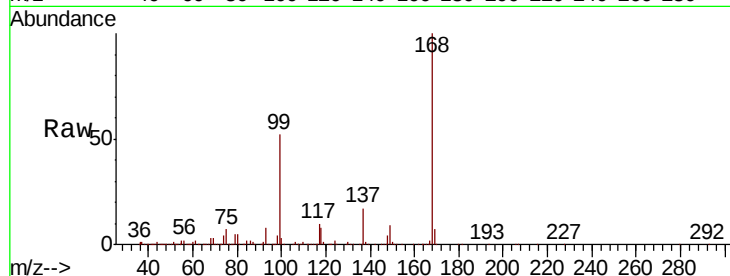




#31
Cyclohexane
Concen: 1.175 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

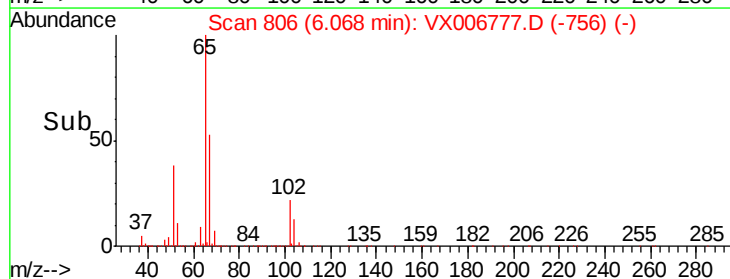
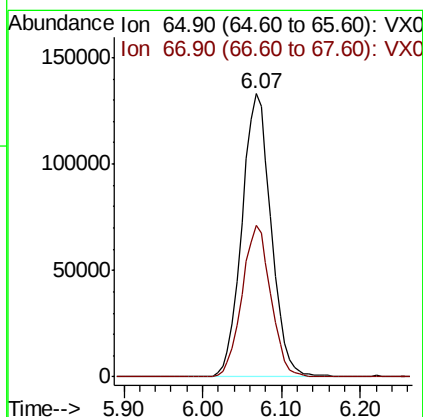
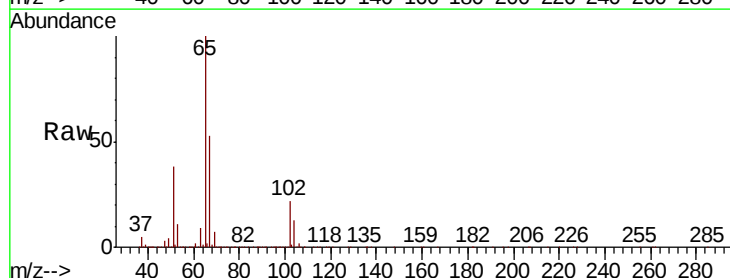
Instrument :
MSVOA_X
ClientSampleId :
MW-4

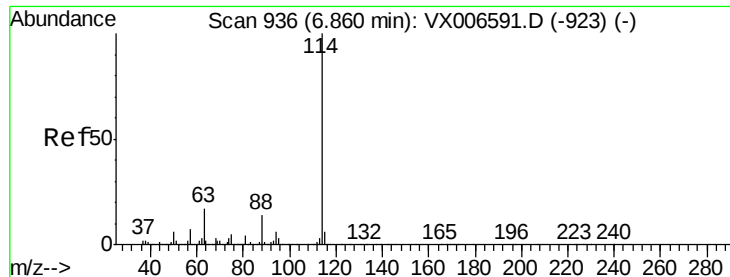
Tot Ion: 56 Resp: 10977
Ion Ratio Lower Upper
56 100
69 183.6 24.4 36.6#
84 127.6 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.700 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

Tgt Ion: 65 Resp: 342216
Ion Ratio Lower Upper
65 100
67 52.9 0.0 105.0

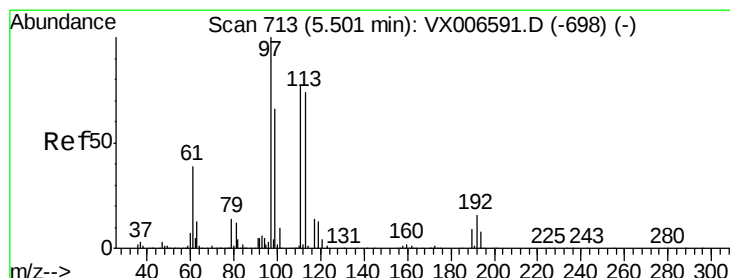
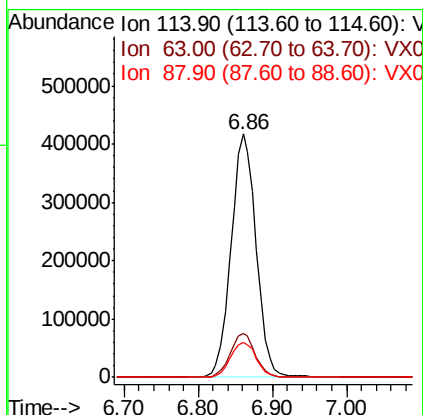
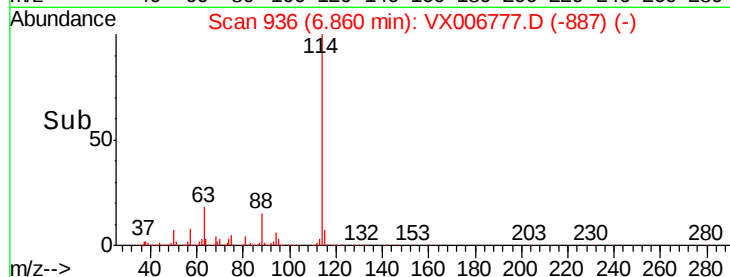
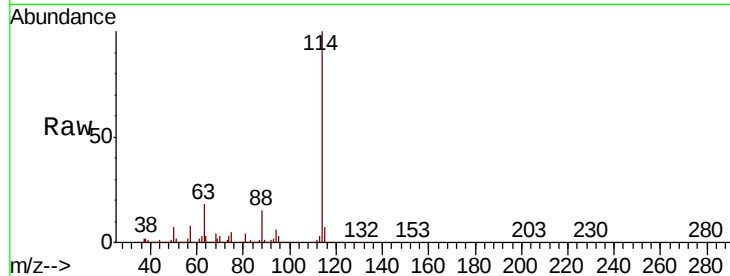




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

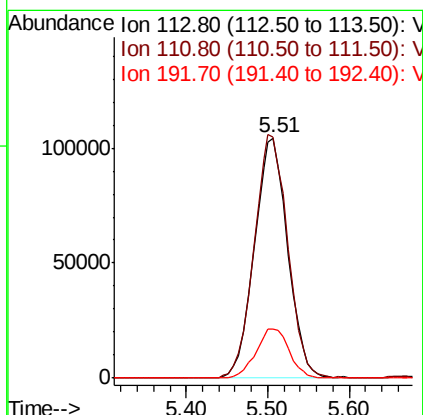
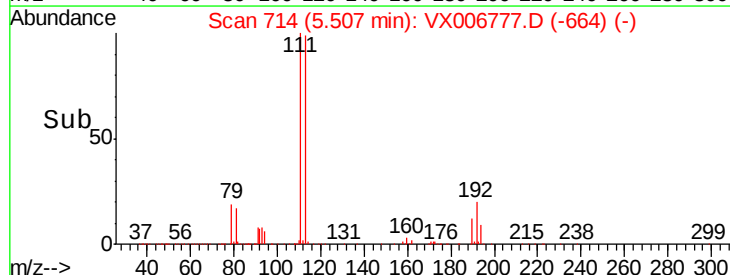
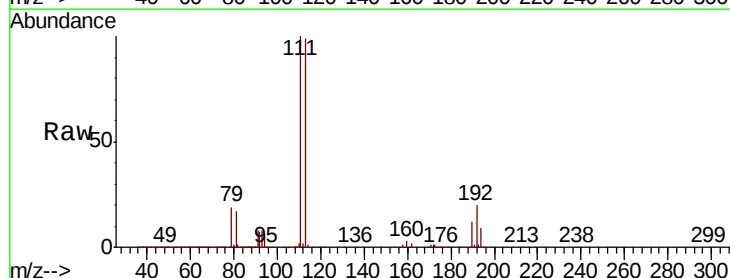
Instrument :
MSVOA_X
ClientSampled :
MW-4

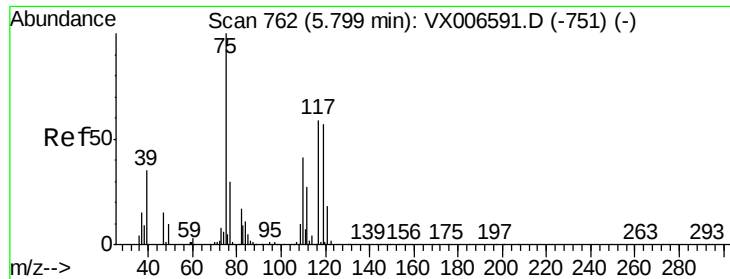
Tot Ion:114 Resp: 981346
Ion Ratio Lower Upper
114 100
63 17.8 0.0 34.8
88 14.6 0.0 28.8



#35
Dibromofluoromethane
Concen: 47.692 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

Tgt Ion:113 Resp: 295972
Ion Ratio Lower Upper
113 100
111 102.3 81.6 122.4
192 20.7 16.7 25.1





#36

1,1-Dichloropropene

Concen: 5.239 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

MW-4

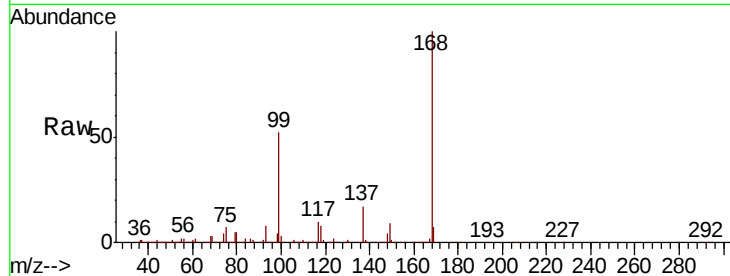
Tot Ion: 75 Resp: 42578

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

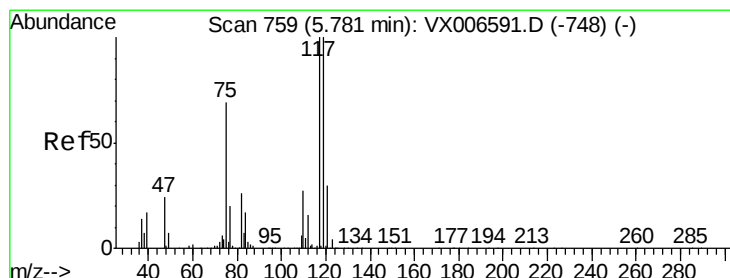
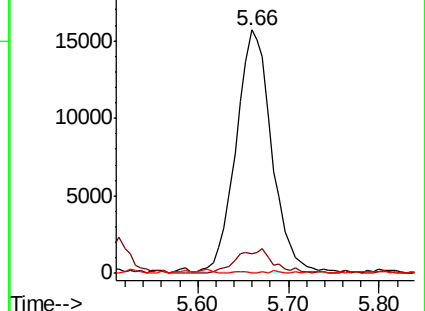
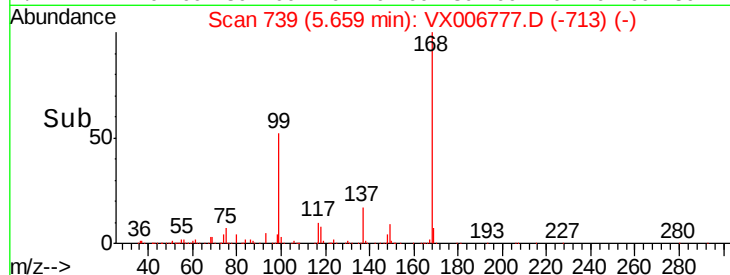
77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.563 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

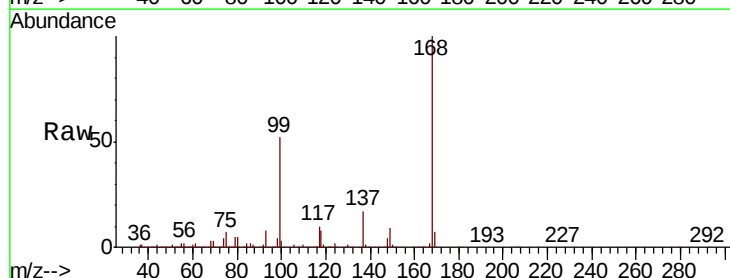
Tgt Ion: 117 Resp: 59741

Ion Ratio Lower Upper

117 100

119 4.9 79.4 119.2#

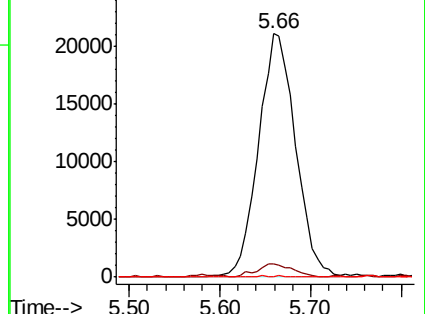
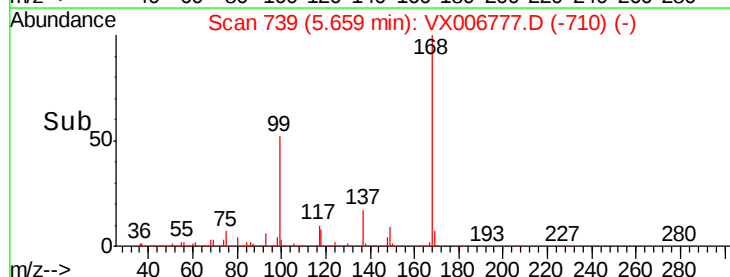
121 0.3 24.0 36.0#

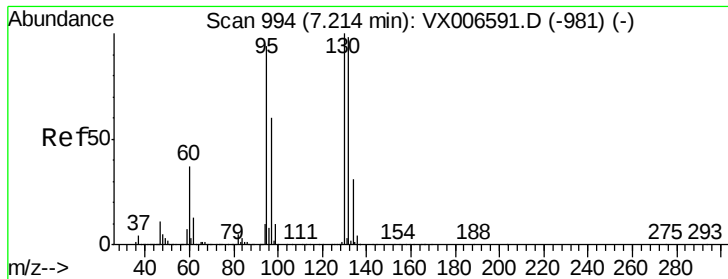


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.259 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampleId :

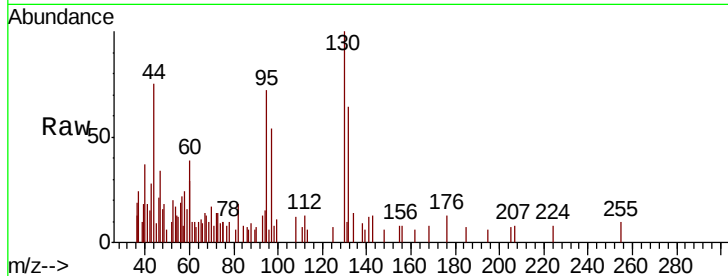
MW-4

Tot Ion:130 Resp: 1934

Ion Ratio Lower Upper

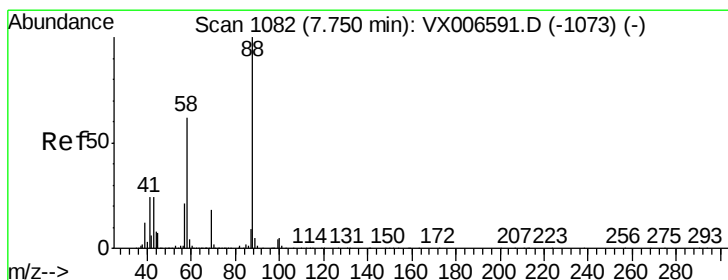
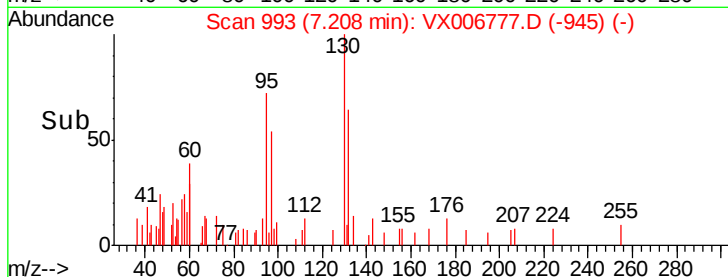
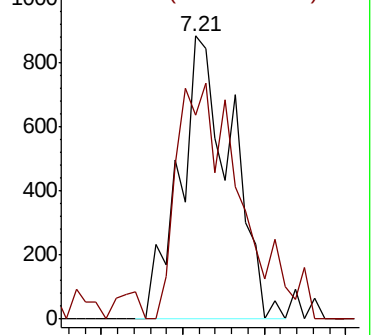
130 100

95 62.6 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

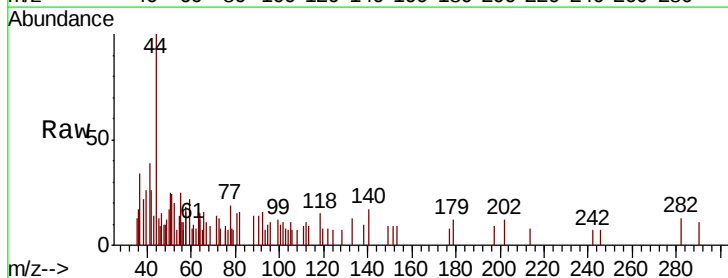
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 670.7 22.2 33.4#

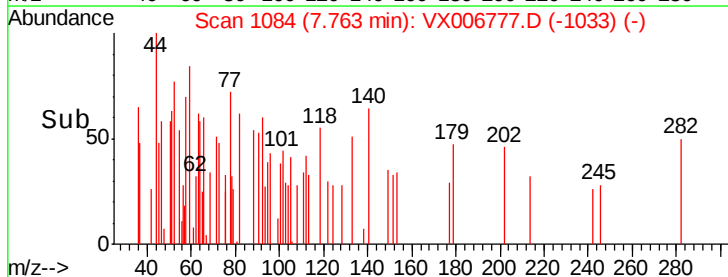
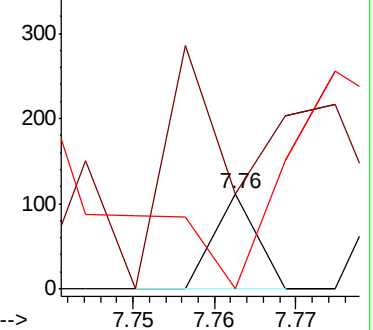
58 0.0 51.0 76.4#

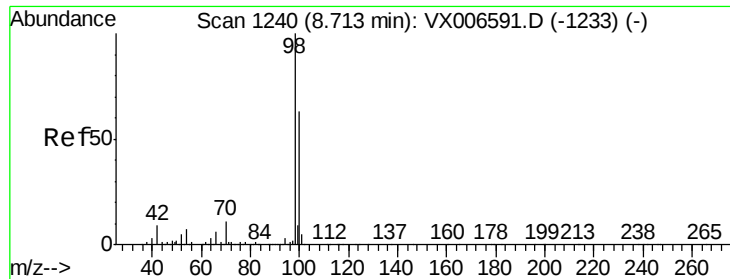


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.461 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampleId :

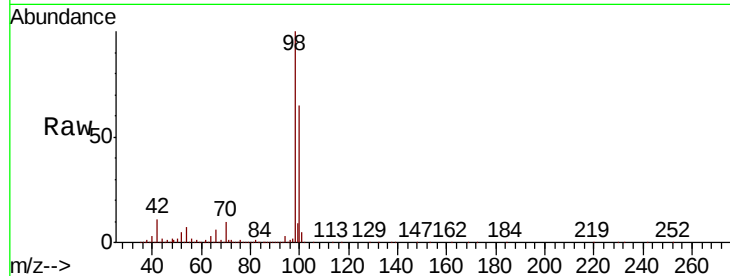
MW-4

Tot Ion: 98 Resp: 1157210

Ion Ratio Lower Upper

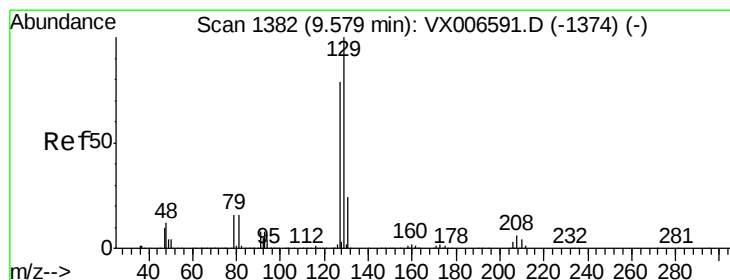
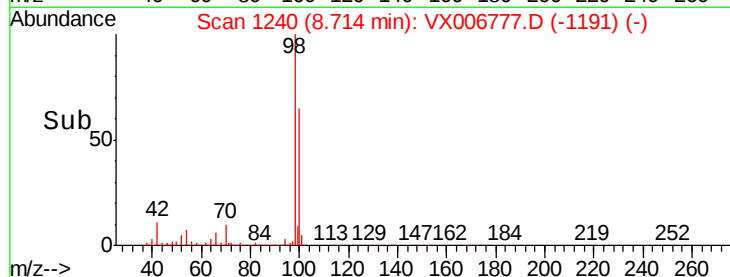
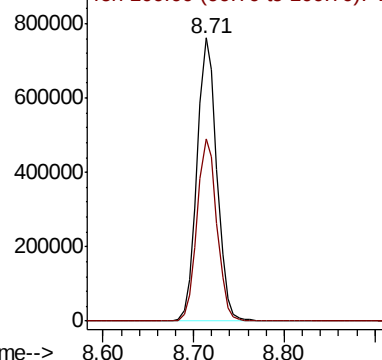
98 100

100 64.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 2.331 ug/l

RT: 9.56 min Scan# 1379

Delta R.T. -0.02 min

Lab File: VX006777.D

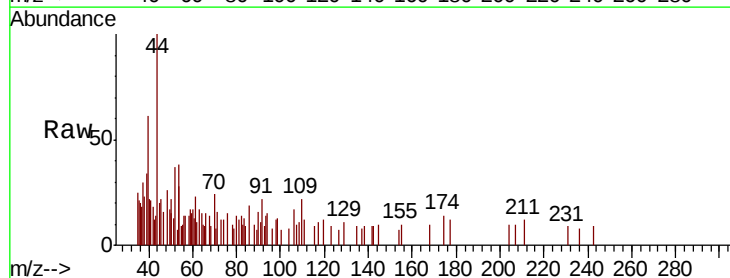
Acq: 22 Dec 2018 17:29

Tgt Ion: 129 Resp: 48

Ion Ratio Lower Upper

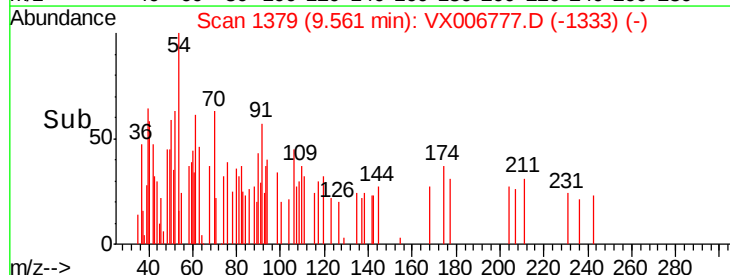
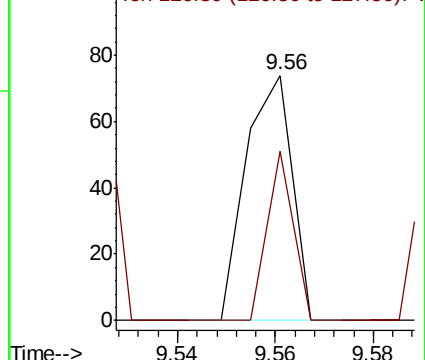
129 100

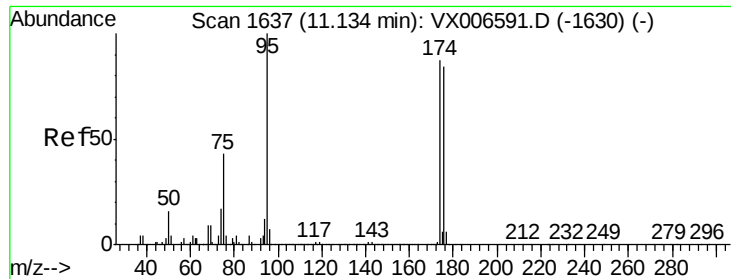
127 39.6 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

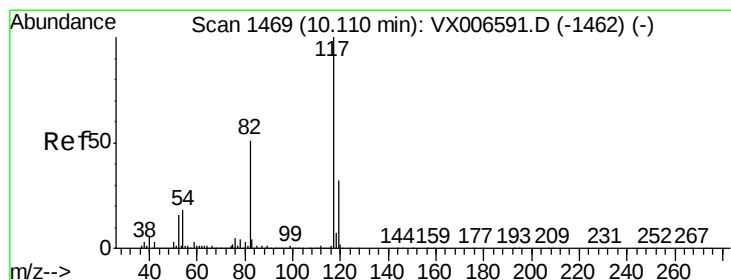
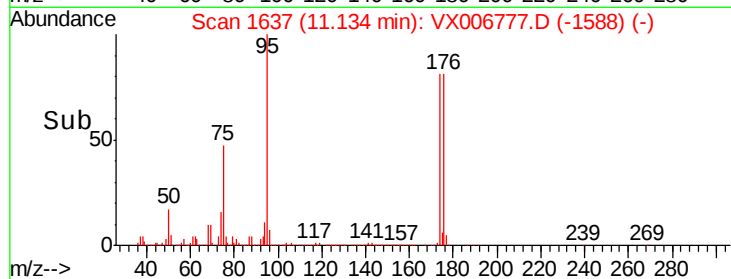
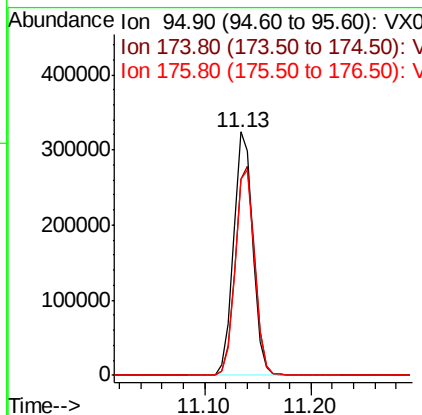
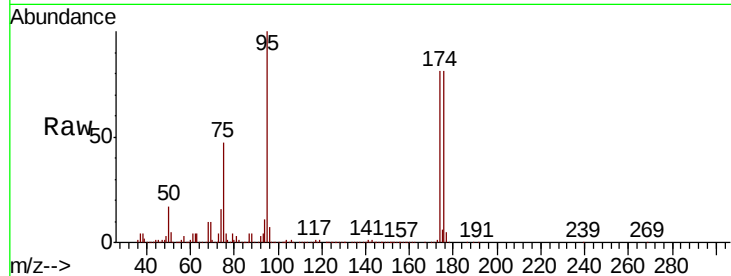




#62
4-Bromofluorobenzene
Concen: 48.033 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

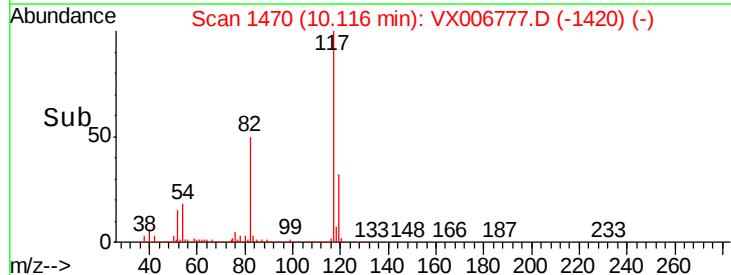
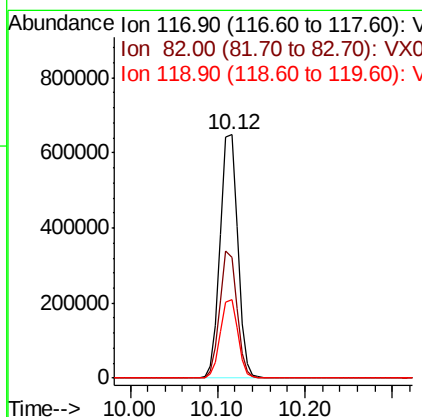
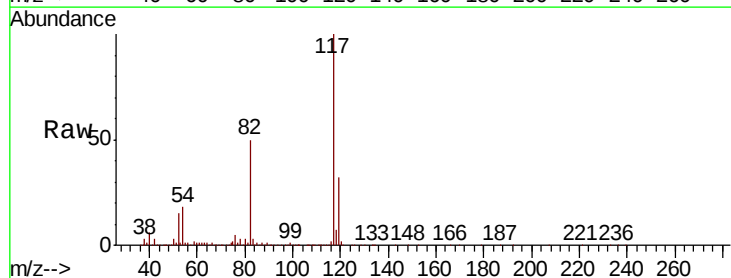
Instrument :
MSVOA_X
ClientSampleId :
MW-4

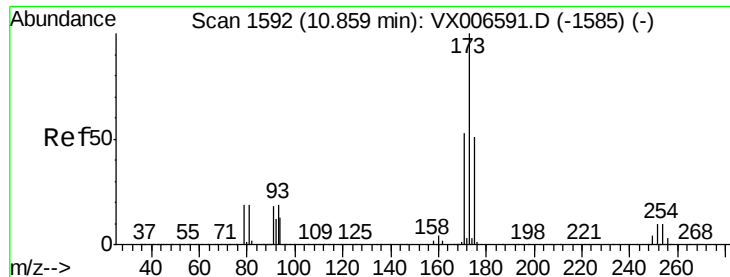
Tot Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	182.2
176	85.1	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006777.D
Acq: 22 Dec 2018 17:29

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.6	41.0	61.6
119	32.5	25.4	38.0





#71

Bromoform

Concen: 4.479 ug/l

RT: 10.71 min Scan# 1567

Delta R.T. -0.15 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampled :

MW-4

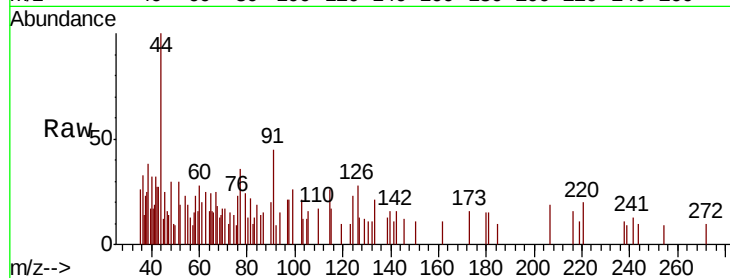
Tot Ion:173 Resp: 115

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

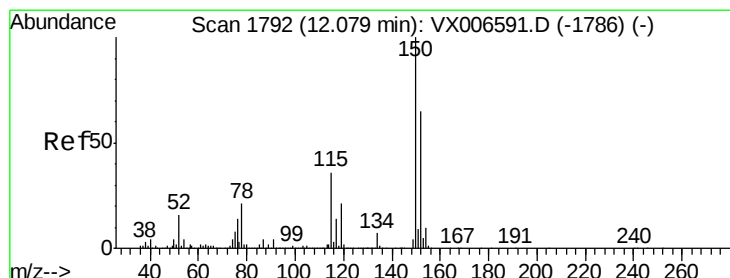
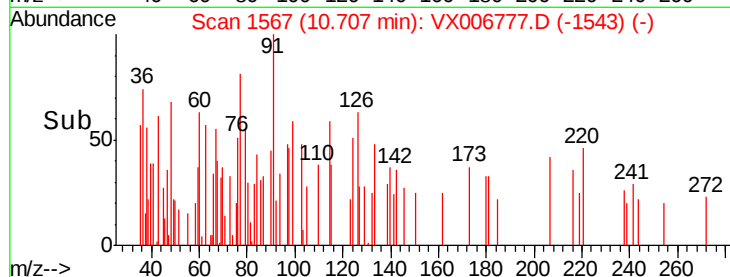
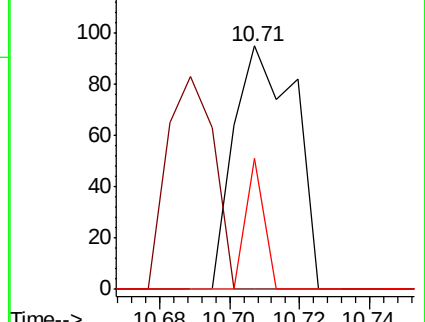
254 16.5 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

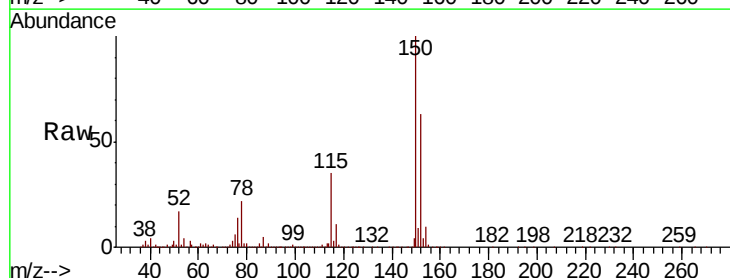
Tgt Ion:152 Resp: 420041

Ion Ratio Lower Upper

152 100

115 55.6 39.1 117.2

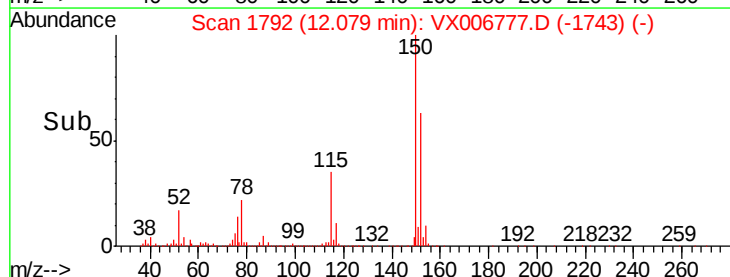
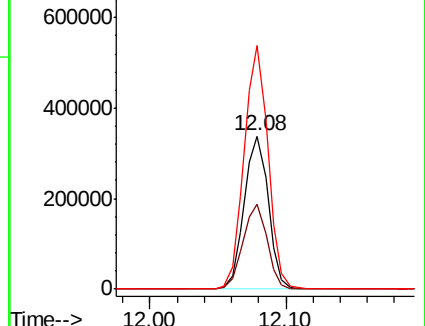
150 157.3 0.0 344.8

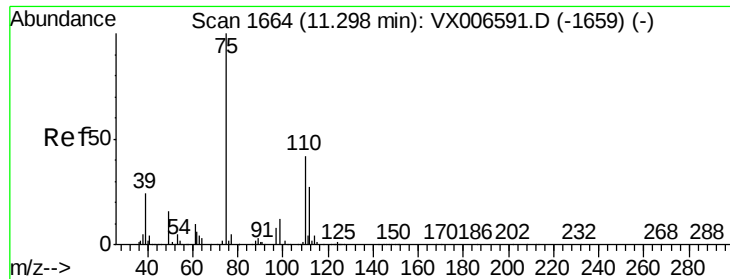


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

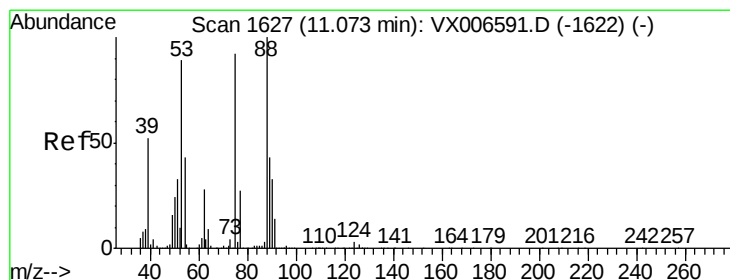
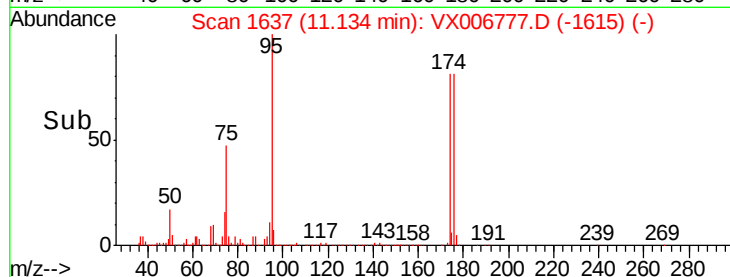
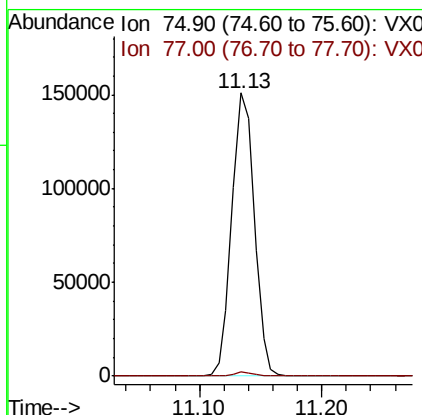
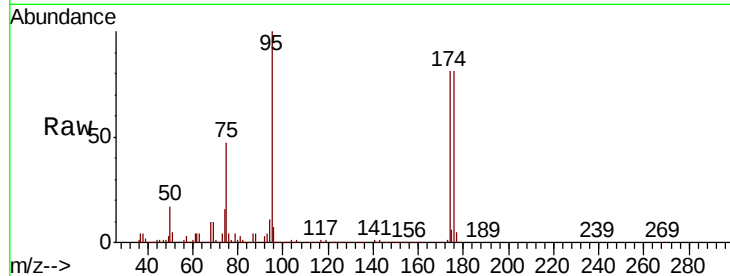




#76
 1,2,3-Trichloropropane
 Concen: 24.679 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006777.D
 Acq: 22 Dec 2018 17:29

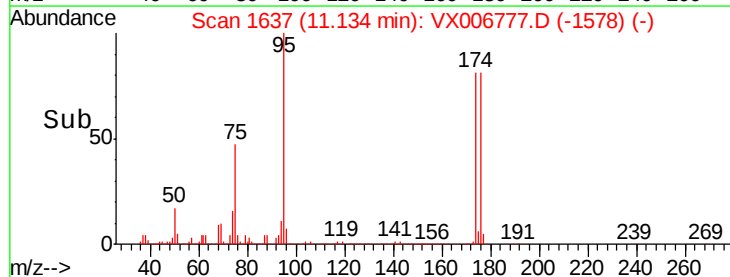
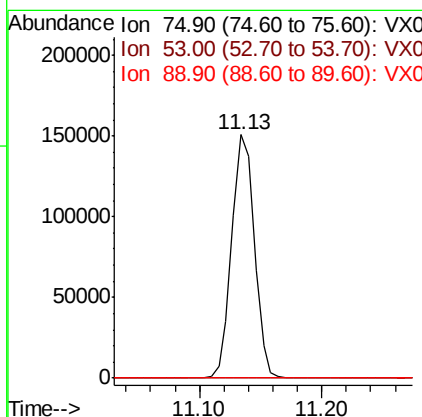
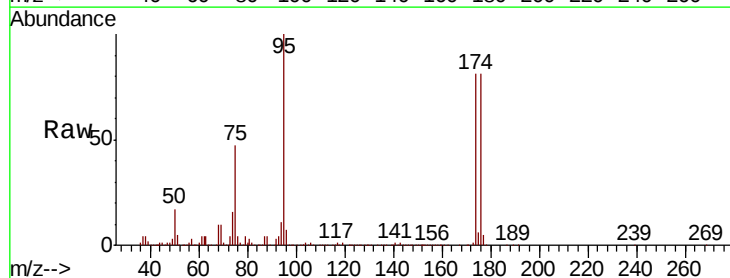
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

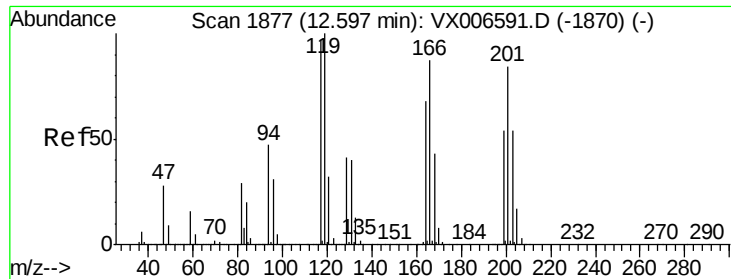
Tot Ion: 75 Resp: 192651
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.981 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006777.D
 Acq: 22 Dec 2018 17:29

Tgt Ion: 75 Resp: 192651
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.7 119.5#
 89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 3.316 ug/l

RT: 12.81 min Scan# 1912

Delta R.T. 0.21 min

Lab File: VX006777.D

Acq: 22 Dec 2018 17:29

Instrument :

MSVOA_X

ClientSampleId :

MW-4

Tot Ion:117 Resp: 99

Ion Ratio Lower Upper

117 100

201 118.2 42.9 128.7

