

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\
 Data File : VX003988.D
 Acq On : 10 Aug 2018 20:17
 Operator : JC/MD
 Sample : J4397-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-12

Quant Time: Aug 11 01:47:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	280791	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	418252	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	384324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204308	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	197814	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
35) Dibromofluoromethane	5.51	113	166523	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
50) Toluene-d8	8.72	98	580447	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
62) 4-Bromofluorobenzene	11.14	95	192640	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	

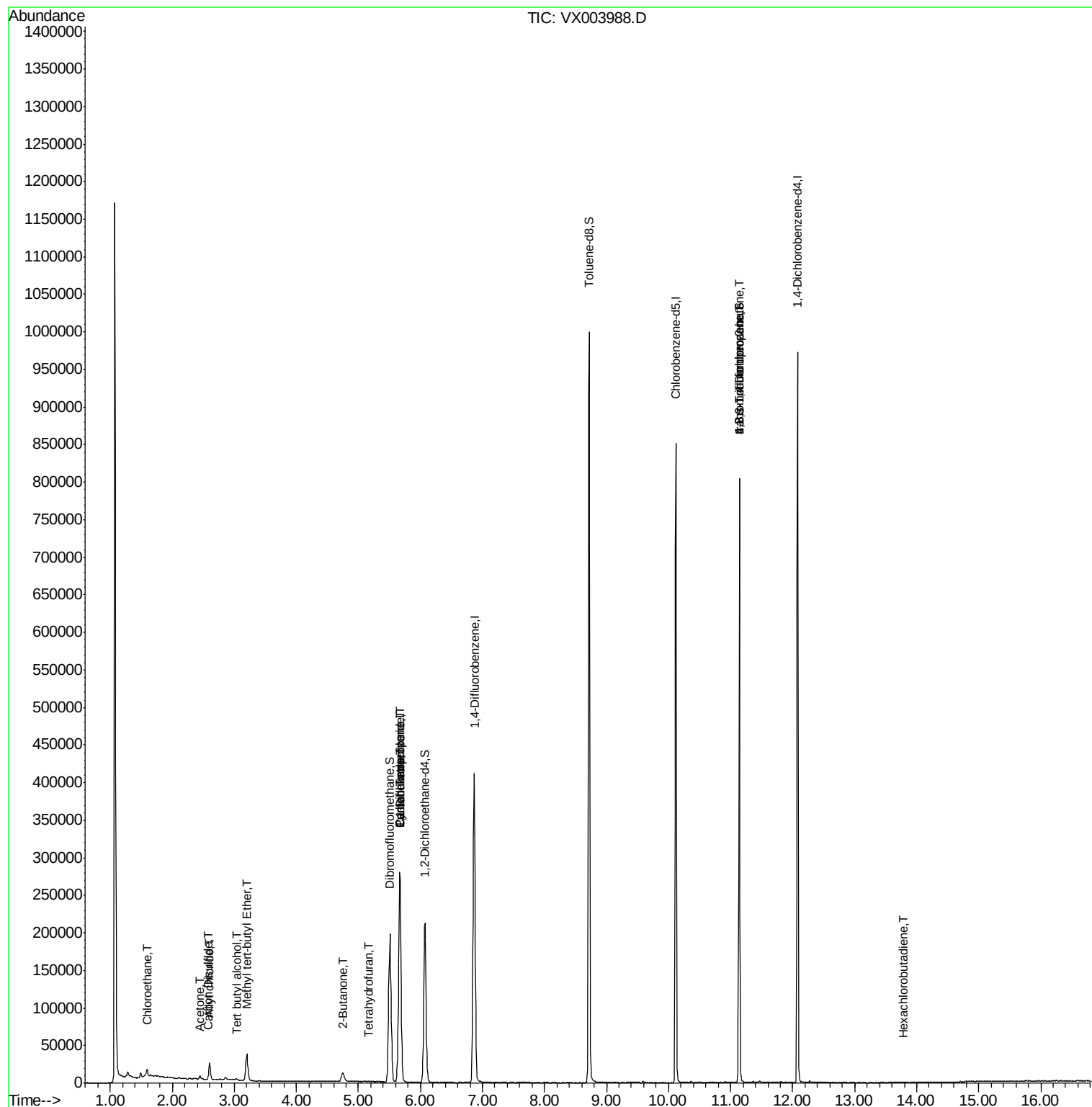
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	822	Below Cal		95
6) Chloroethane	1.59	64	15043	6.09 ug/l	#	55
11) Tert butyl alcohol	3.04	59	1497	1.67 ug/l	#	73
13) Acrolein	2.29	56	79	Below Cal	#	52
14) Allyl chloride	2.60	41	2401	0.41 ug/l	#	49
16) Acetone	2.44	43	4540	2.05 ug/l		95
17) Carbon Disulfide	2.57	76	664	0.52 ug/l	#	74
19) Methyl tert-butyl Ether	3.20	73	39994	3.74 ug/l		100
20) Methylene Chloride	2.85	84	1588	Below Cal	#	85
25) 2-Butanone	4.74	43	1319	0.40 ug/l	#	48
29) Tetrahydrofuran	5.15	42	456	0.27 ug/l	#	31
31) Cyclohexane	5.67	56	4886	0.91 ug/l	#	6
36) 1,1-Dichloropropene	5.67	75	19285	4.12 ug/l	#	49
38) Carbon Tetrachloride	5.67	117	24764	5.55 ug/l	#	16
76) 1,2,3-Trichloropropane	11.14	75	93714	20.77 ug/l	#	36
81) trans-1,4-Dichloro-2-buten	11.14	75	93714	56.21 ug/l	#	9
88) 1,4-Dichlorobenzene	12.10	146	285	Below Cal	#	1
94) Hexachlorobutadiene	13.79	225	97	0.47 ug/l	#	67

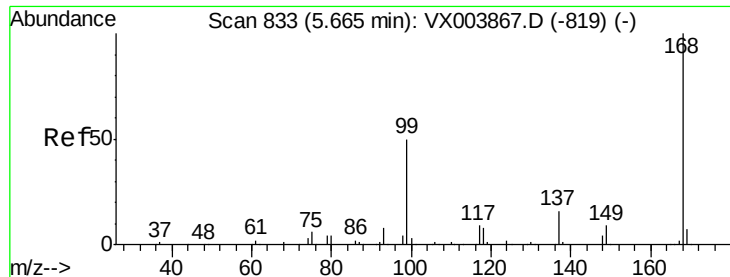
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 07 07:45:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampleId :

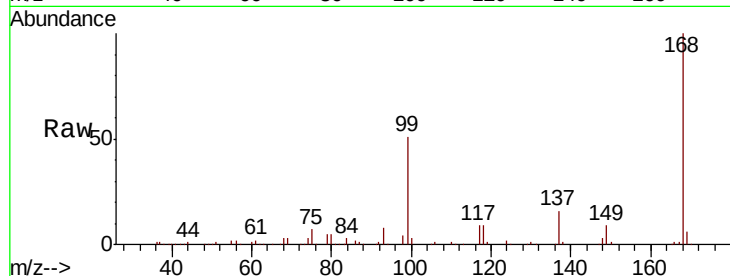
MW-12

Tot Ion:168 Resp: 280791

Ion Ratio Lower Upper

168 100

99 51.2 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

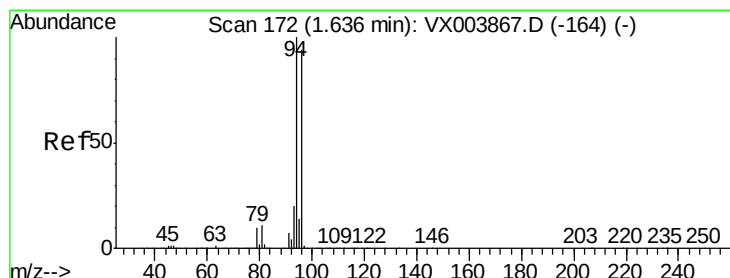
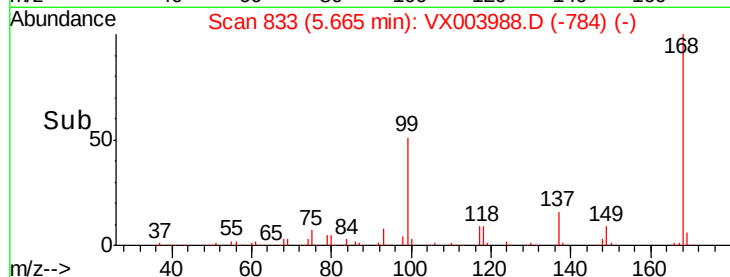
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003988.D

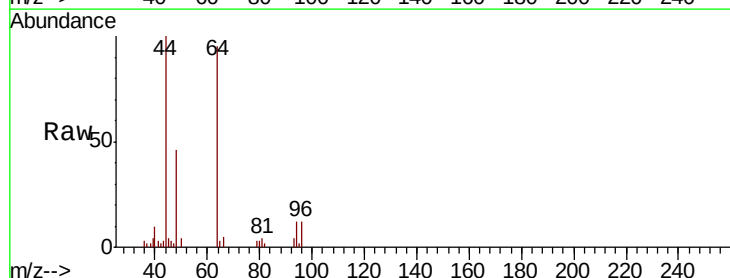
Acq: 10 Aug 2018 20:17

Tgt Ion: 94 Resp: 822

Ion Ratio Lower Upper

94 100

96 98.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

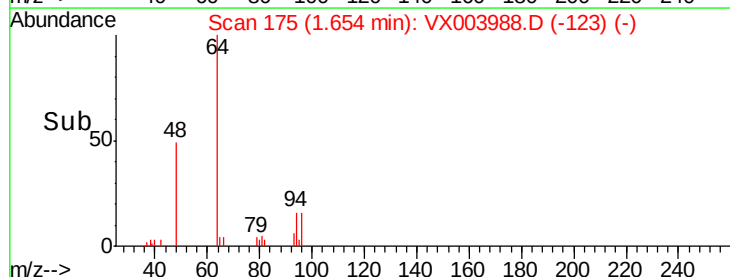
300

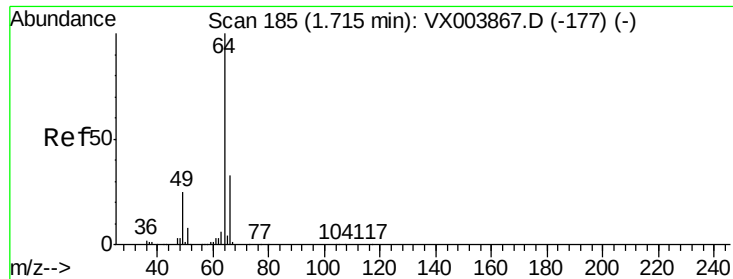
200

100

0

Time-->





#6

Chloroethane

Concen: 6.09 ug/l

RT: 1.59 min Scan# 165

Delta R.T. -0.12 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampleId :

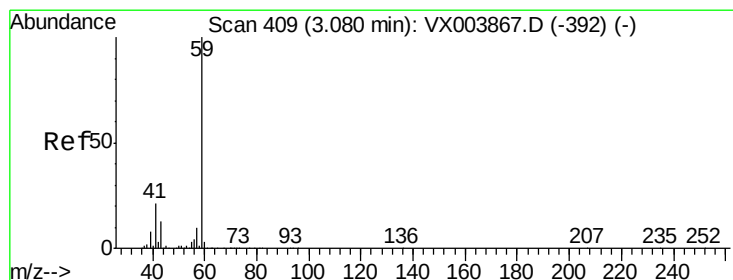
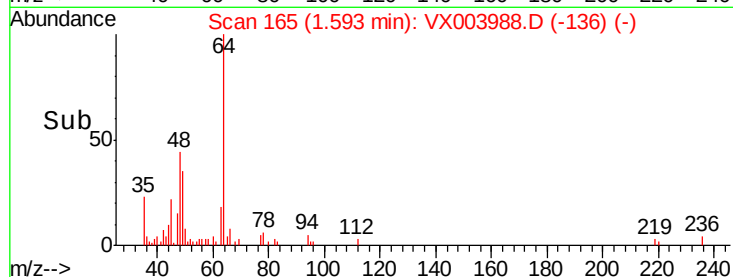
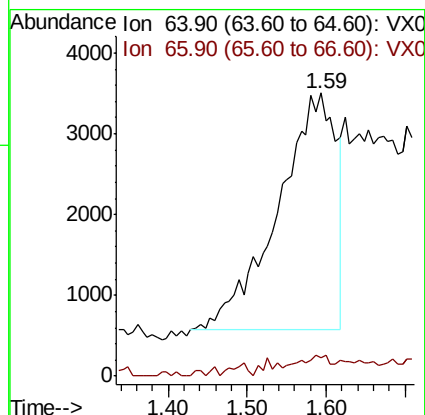
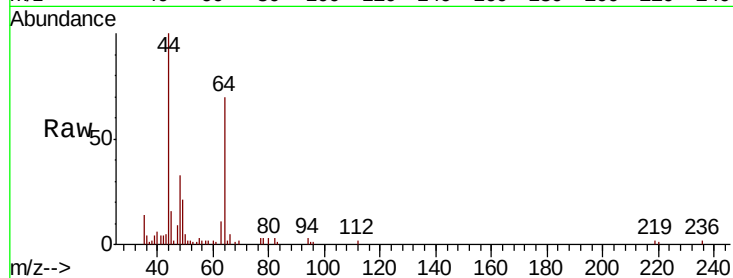
MW-12

Tot Ion: 64 Resp: 15043

Ion Ratio Lower Upper

64 100

66 7.9 26.5 39.7#



#11

Tert butyl alcohol

Concen: 1.67 ug/l

RT: 3.04 min Scan# 402

Delta R.T. -0.04 min

Lab File: VX003988.D

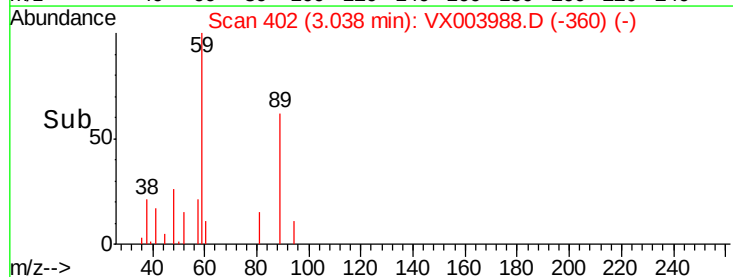
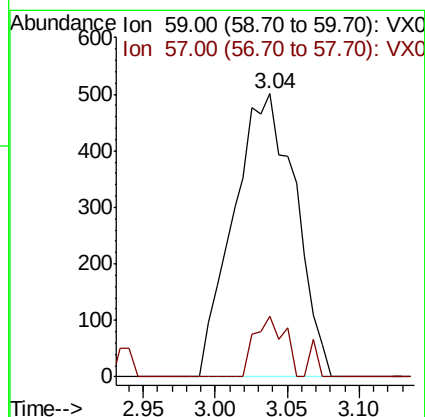
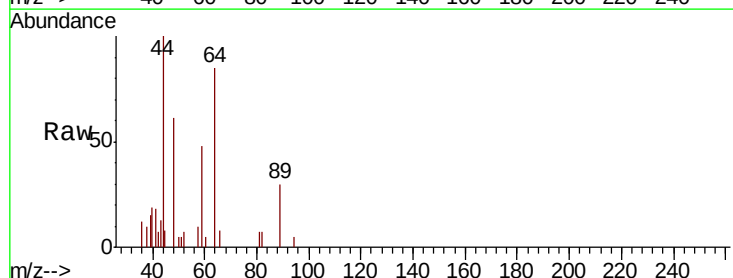
Acq: 10 Aug 2018 20:17

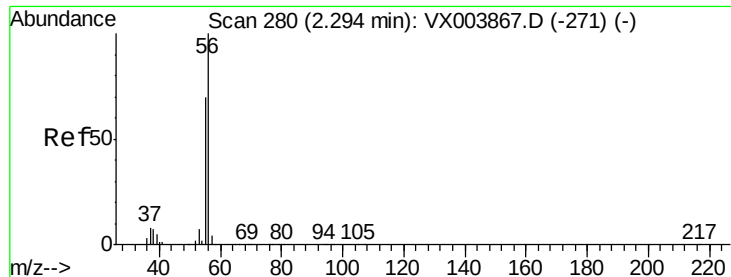
Tgt Ion: 59 Resp: 1497

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampled :

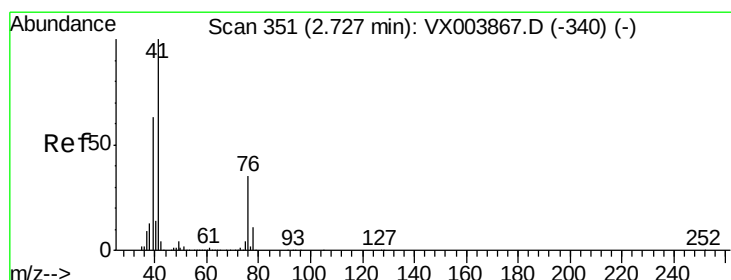
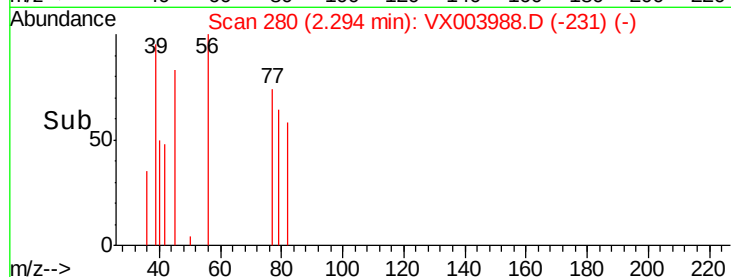
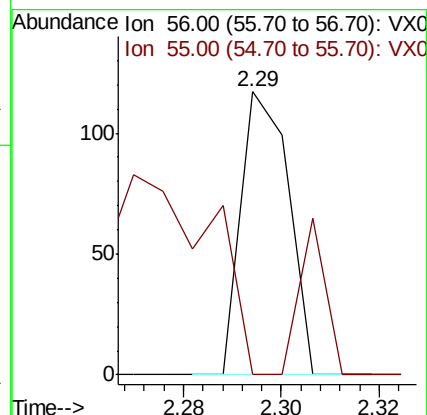
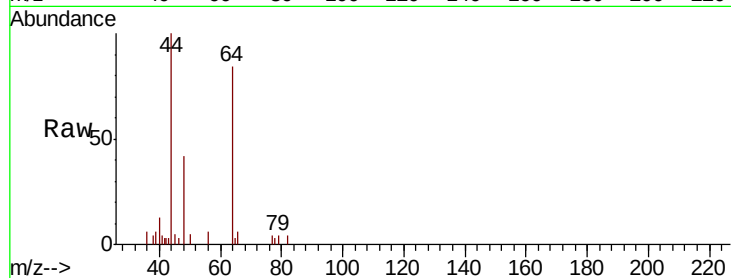
MW-12

Tot Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 30.4 56.1 84.1#



#14

Allyl chloride

Concen: 0.41 ug/l

RT: 2.60 min Scan# 330

Delta R.T. -0.13 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

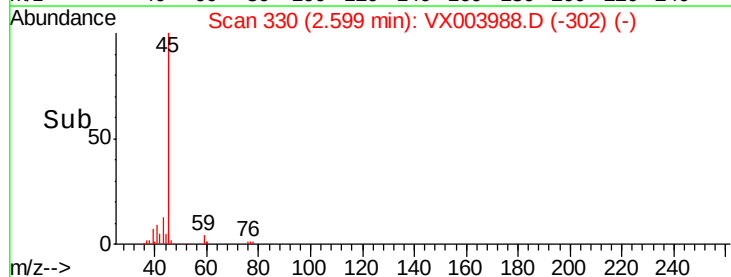
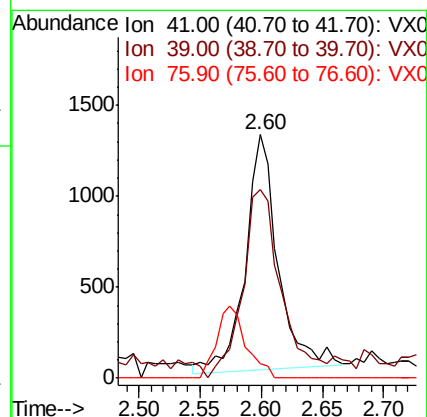
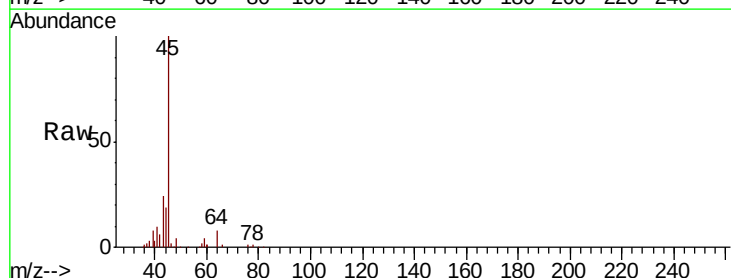
Tgt Ion: 41 Resp: 2401

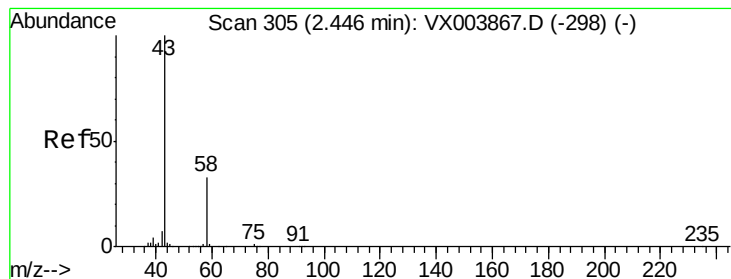
Ion Ratio Lower Upper

41 100

39 94.4 47.4 71.0#

76 0.0 26.0 39.0#





#16

Acetone

Concen: 2.05 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampled :

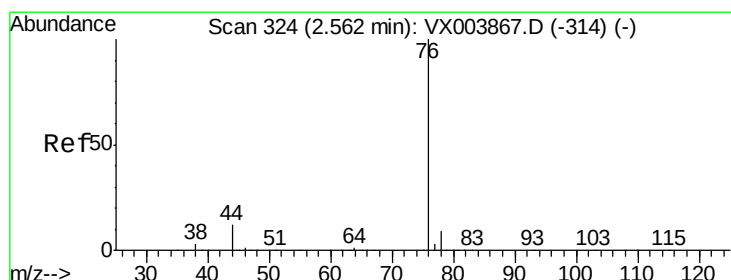
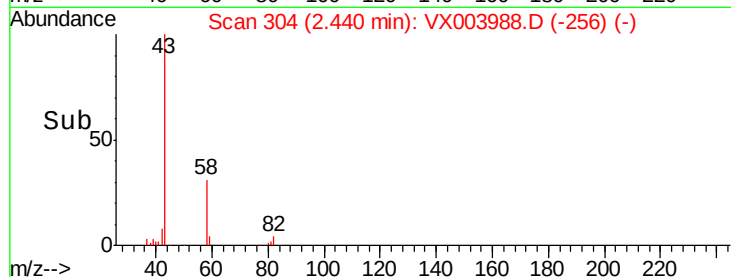
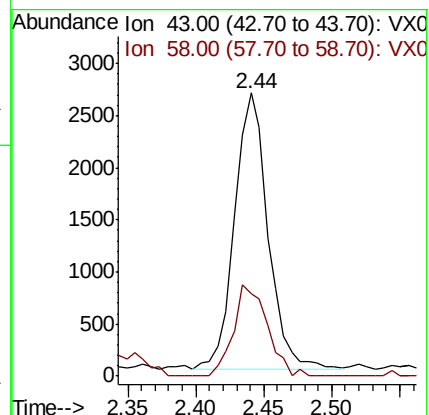
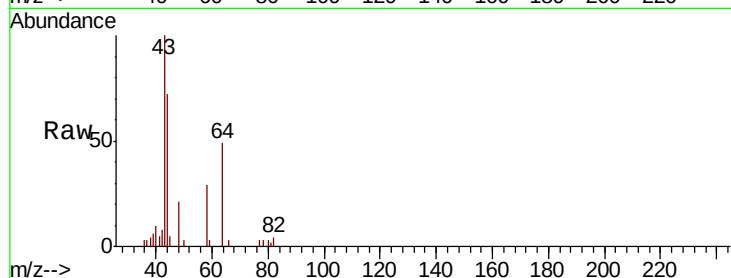
MW-12

Tot Ion: 43 Resp: 4540

Ion Ratio Lower Upper

43 100

58 30.0 26.4 39.6



#17

Carbon Disulfide

Concen: 0.52 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003988.D

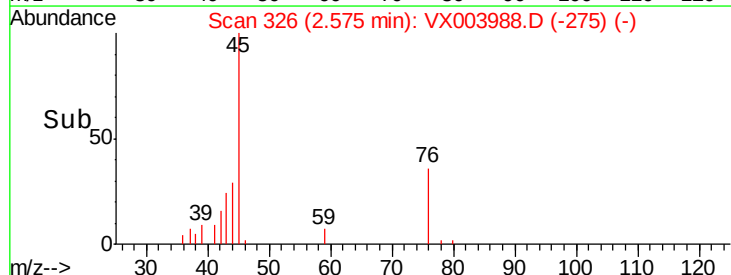
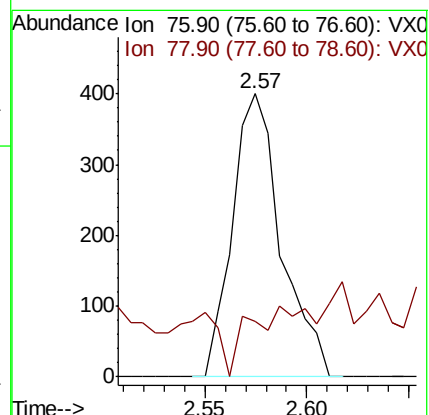
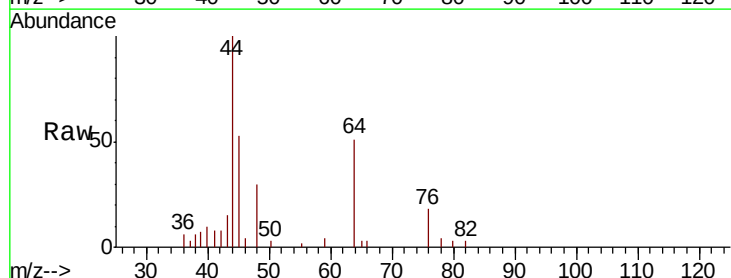
Acq: 10 Aug 2018 20:17

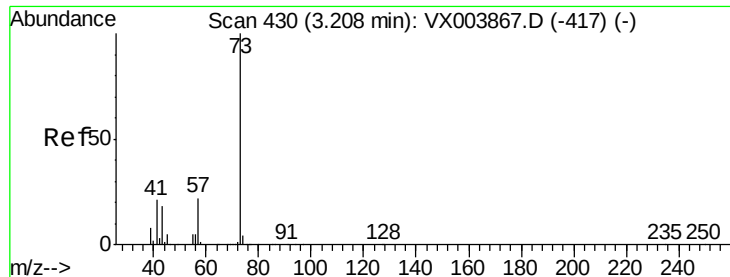
Tgt Ion: 76 Resp: 664

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#

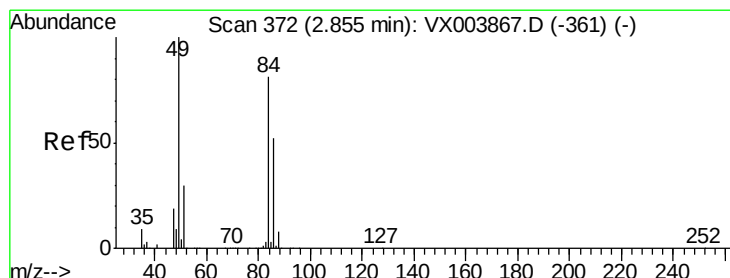
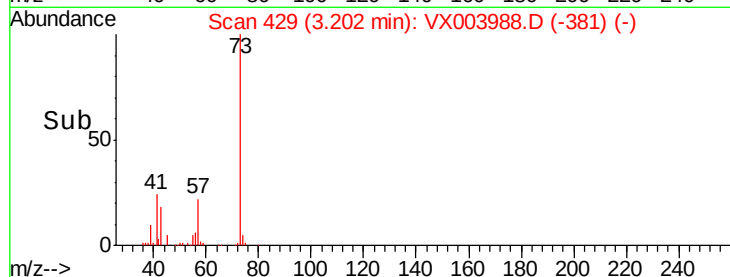
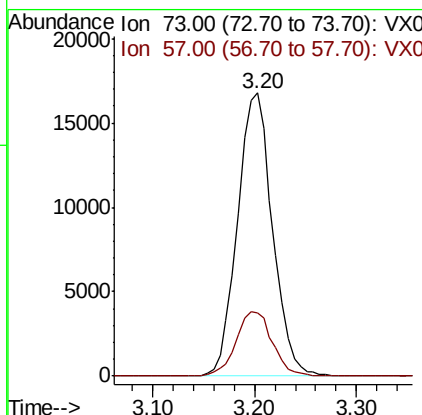
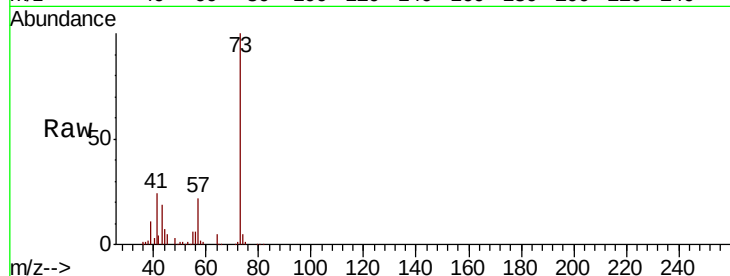




#19
Methyl tert-butyl Ether
Concen: 3.74 ug/l
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX003988.D
Acq: 10 Aug 2018 20:17

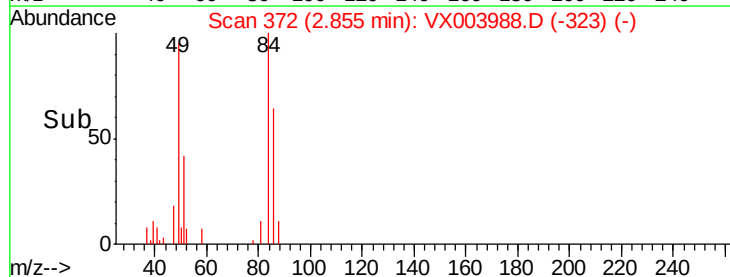
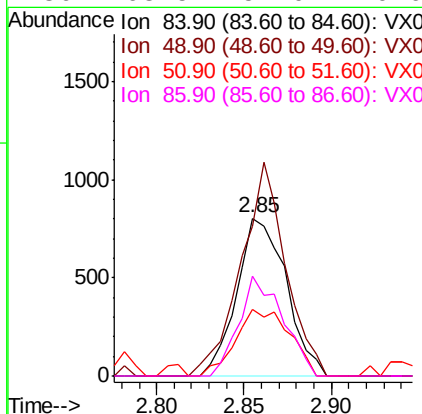
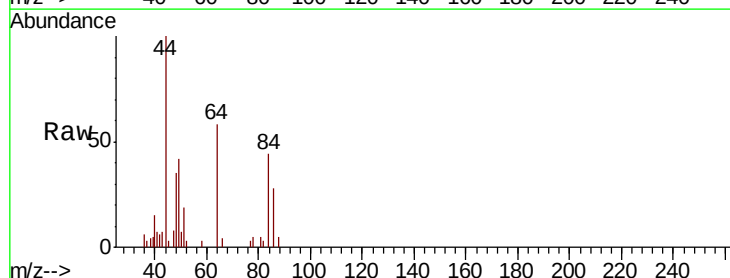
Instrument :
MSVOA_X
ClientSampleId :
MW-12

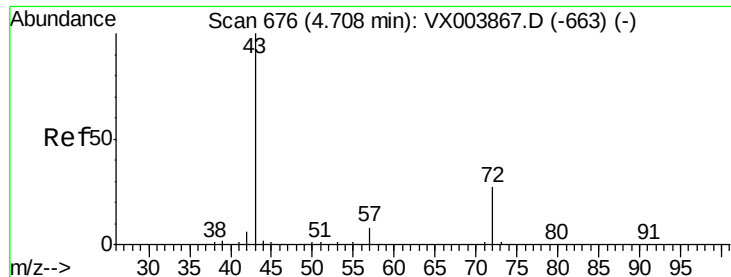
Tot Ion: 73 Resp: 39994
Ion Ratio Lower Upper
73 100
57 22.5 18.0 27.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003988.D
Acq: 10 Aug 2018 20:17

Tgt Ion: 84 Resp: 1588
Ion Ratio Lower Upper
84 100
49 95.3 98.9 148.3#
51 42.0 29.9 44.9
86 63.5 51.0 76.6





#25

2-Butanone

Concen: 0.40 ug/l

RT: 4.74 min Scan# 681

Delta R.T. 0.03 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampled :

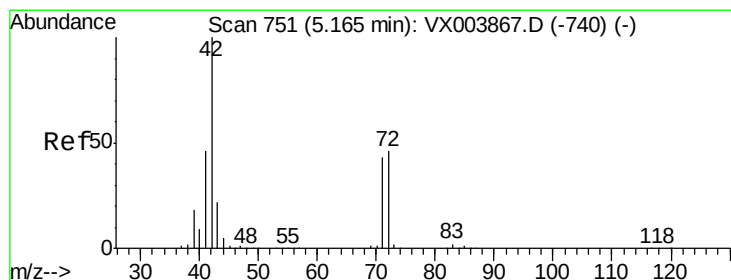
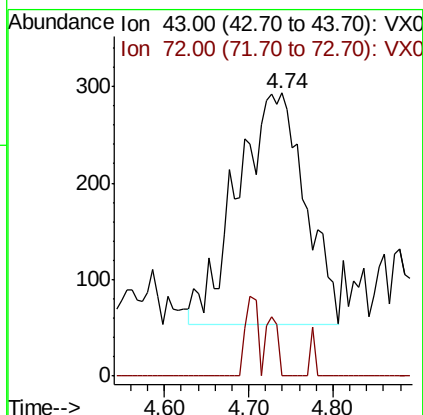
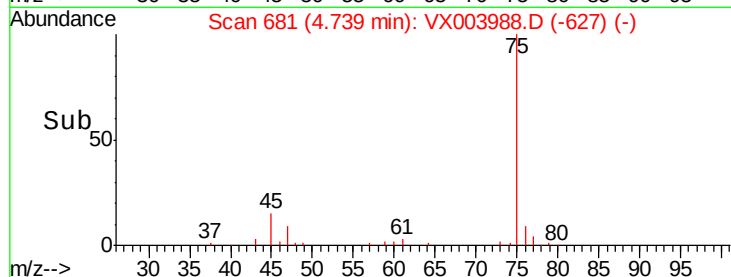
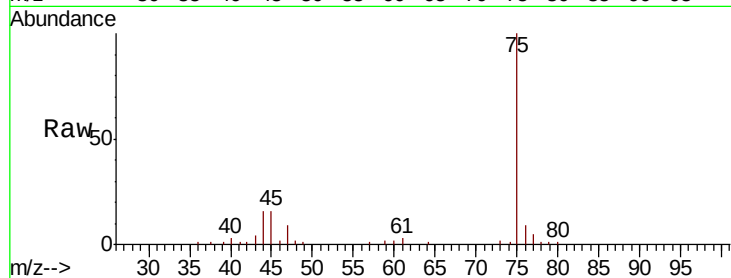
MW-12

Tot Ion: 43 Resp: 1319

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#29

Tetrahydrofuran

Concen: 0.27 ug/l

RT: 5.15 min Scan# 749

Delta R.T. -0.01 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

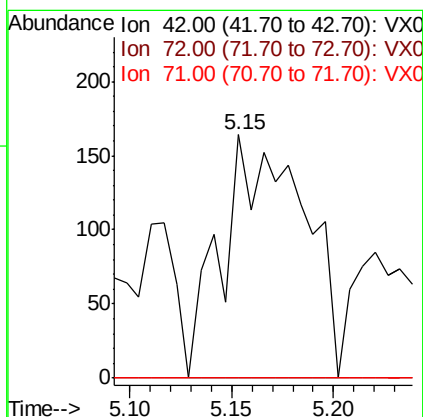
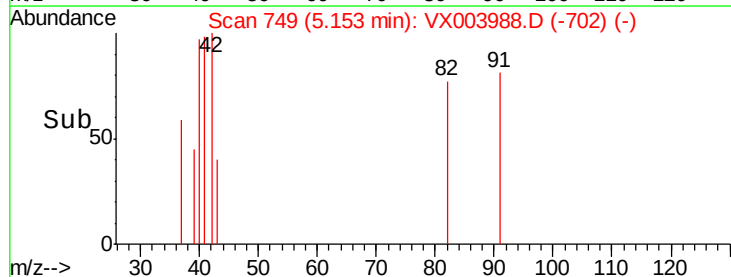
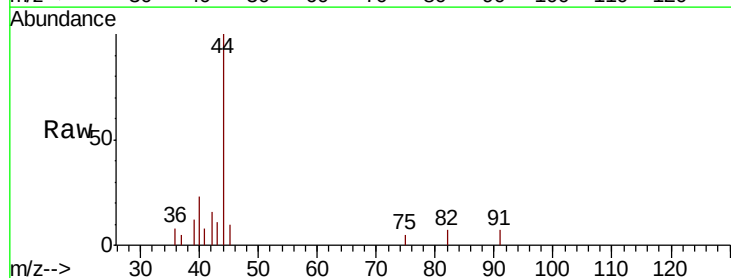
Tgt Ion: 42 Resp: 456

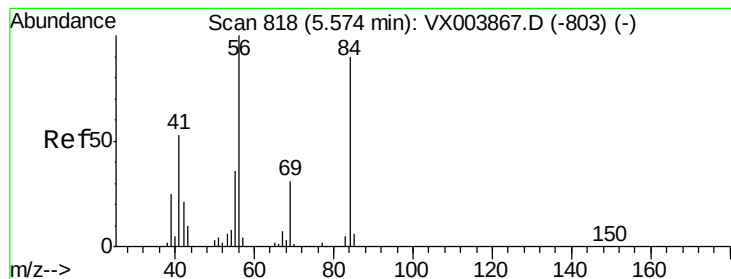
Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

71 0.0 35.0 52.6#





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampled :

MW-12

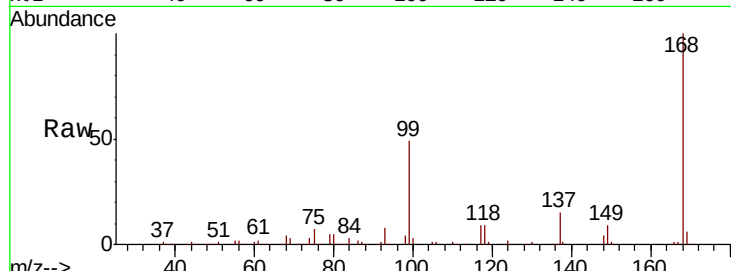
Tot Ion: 56 Resp: 4886

Ion Ratio Lower Upper

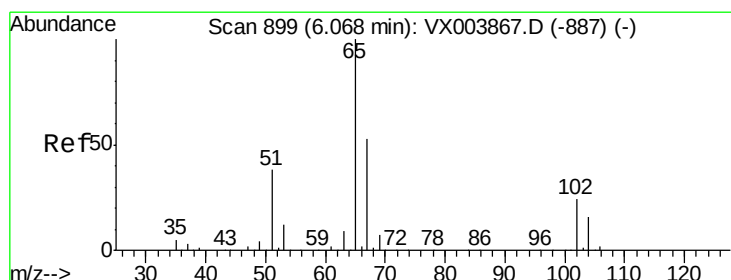
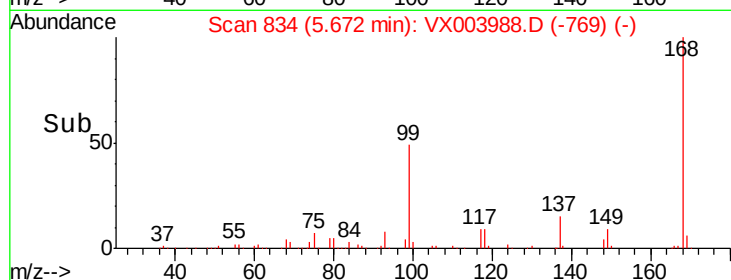
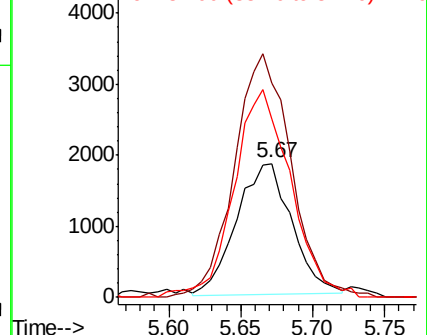
56 100

69 159.7 24.9 37.3#

84 132.7 71.7 107.5#



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: 53.15 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003988.D

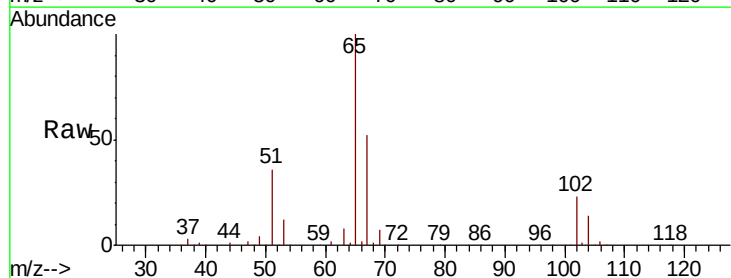
Acq: 10 Aug 2018 20:17

Tgt Ion: 65 Resp: 197814

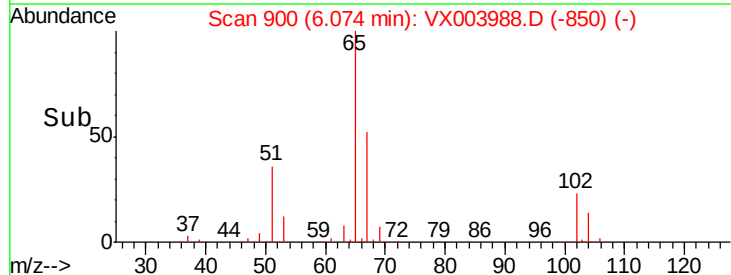
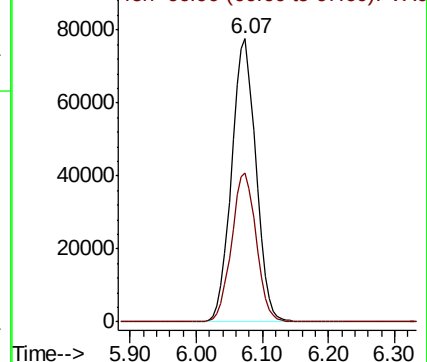
Ion Ratio Lower Upper

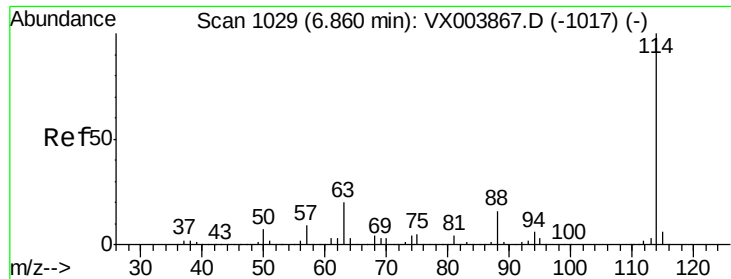
65 100

67 53.2 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

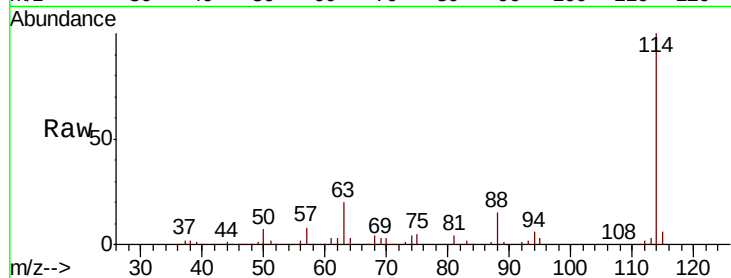




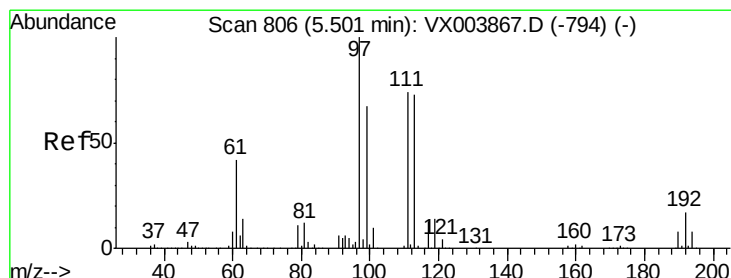
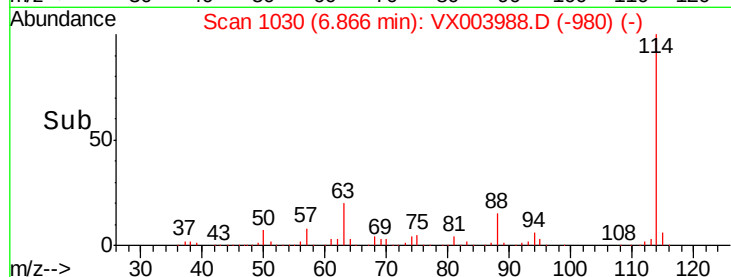
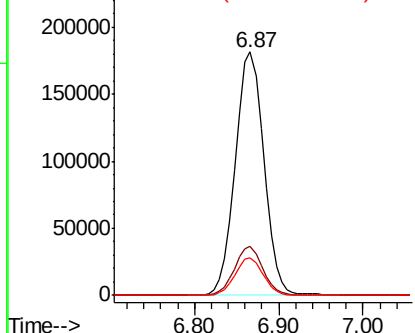
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003988.D
 Acq: 10 Aug 2018 20:17

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-12

Tot Ion:114 Resp: 418252
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.0
 88 15.2 0.0 32.0

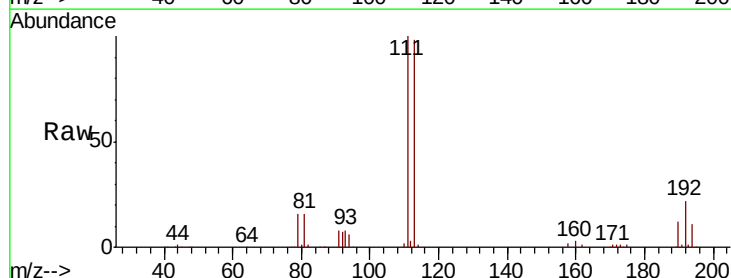


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

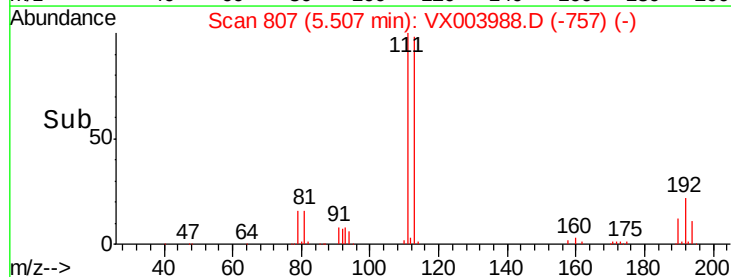
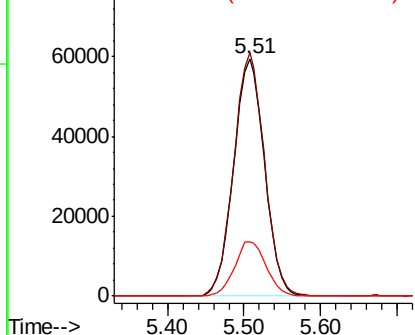


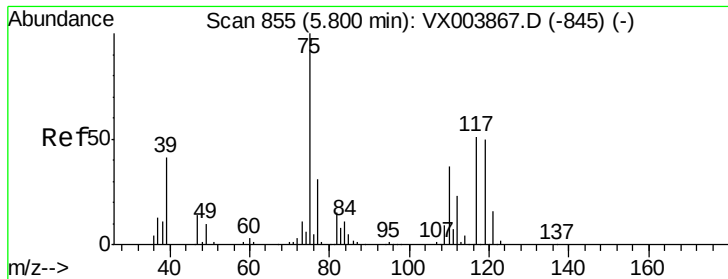
#35
 Dibromofluoromethane
 Concen: 52.55 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX003988.D
 Acq: 10 Aug 2018 20:17

Tgt Ion:113 Resp: 166523
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.0 123.0
 192 23.4 19.0 28.4



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

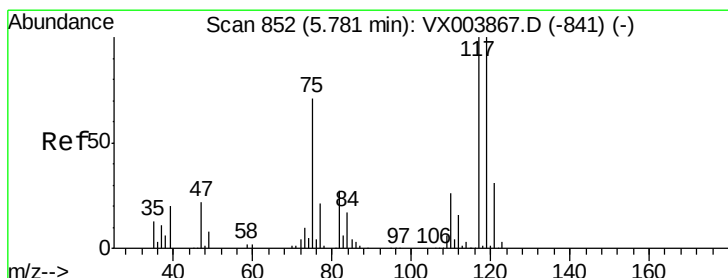
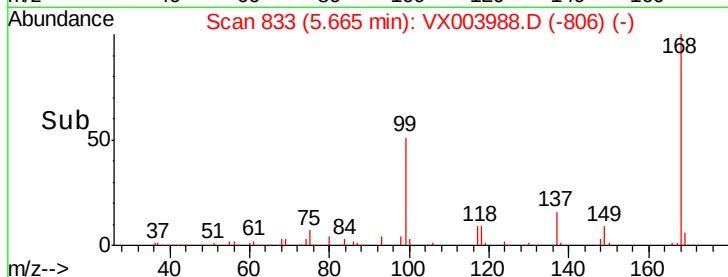
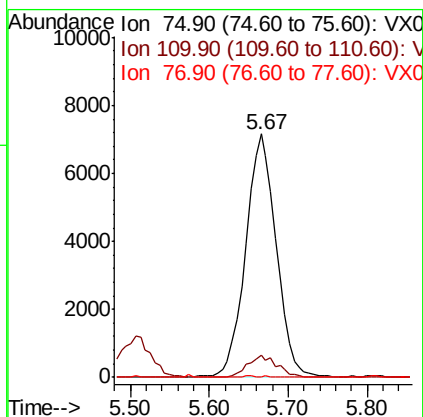
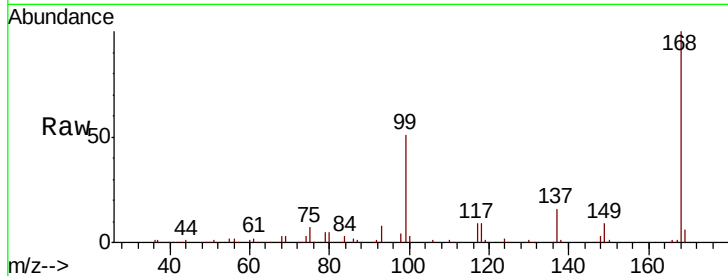




#36
 1,1-Dichloropropene
 Concen: 4.12 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003988.D
 Acq: 10 Aug 2018 20:17

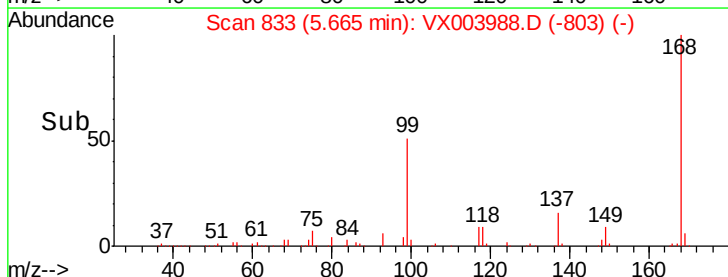
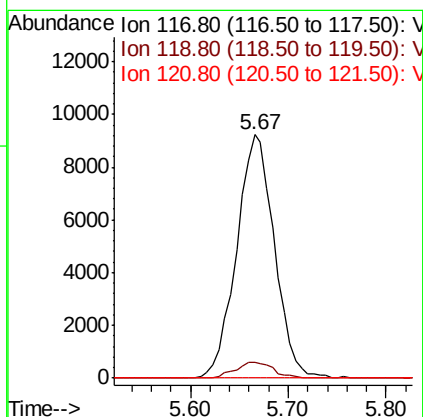
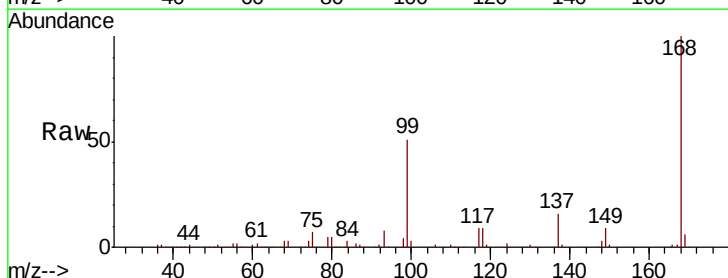
Instrument :
 MSVOA_X
 ClientSampled :
 MW-12

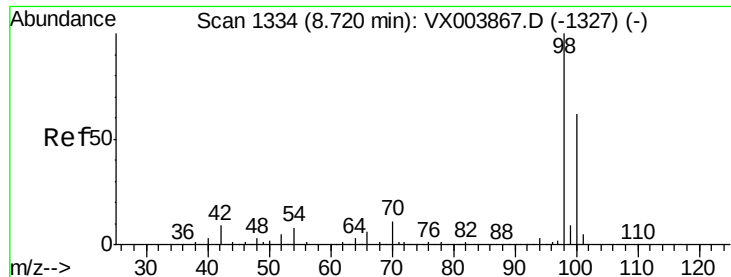
Tot Ion	75	Resp	19285
Ion Ratio	100	Lower	Upper
110	8.8	18.2	54.6#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.55 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003988.D
 Acq: 10 Aug 2018 20:17

Tgt Ion	117	Resp	24764
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
119	6.6	79.5	119.3#
121	0.0	25.0	37.4#

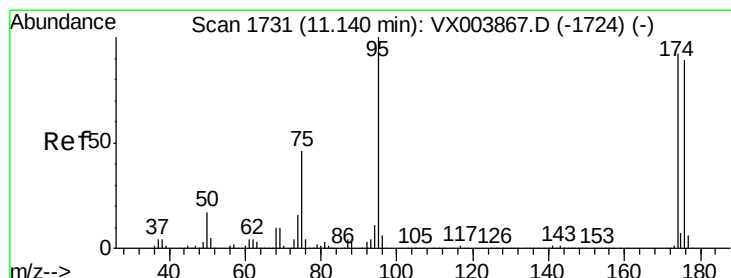
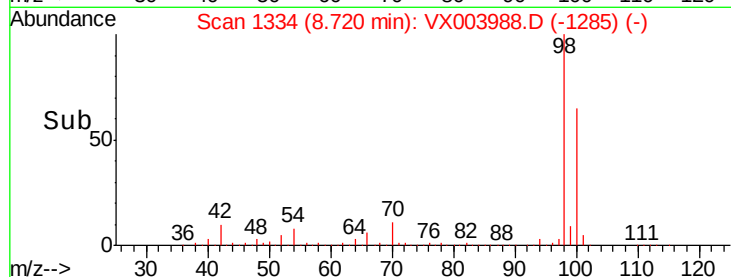
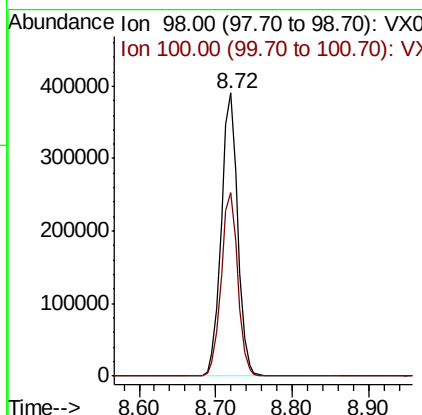
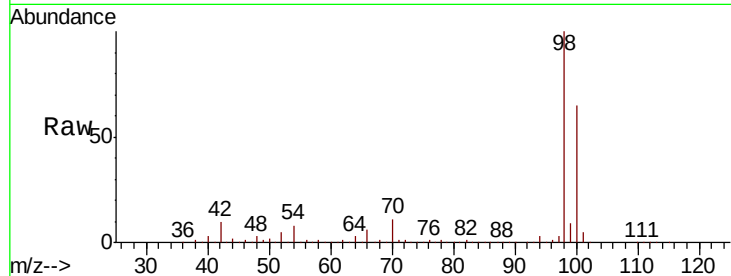




#50
Toluene-d8
Concen: 47.11 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003988.D
Acq: 10 Aug 2018 20:17

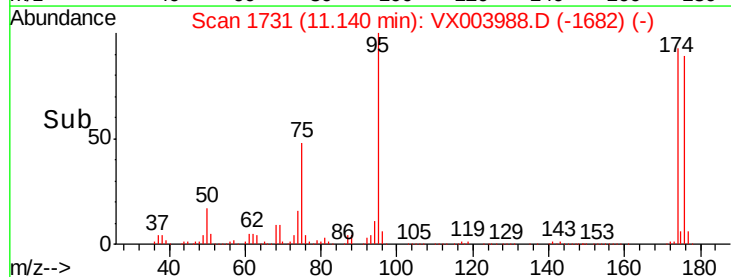
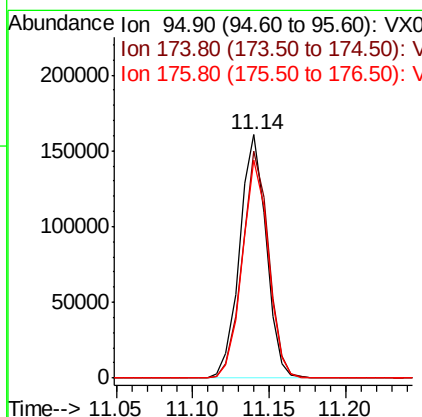
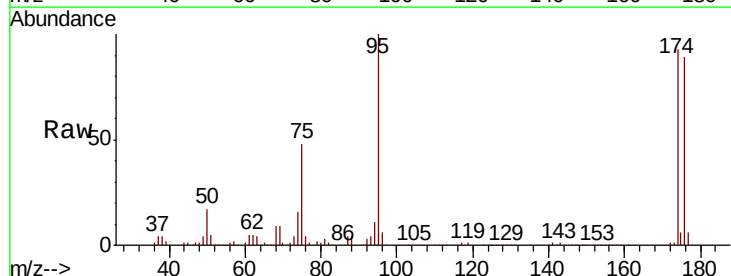
Instrument :
MSVOA_X
ClientSampleId :
MW-12

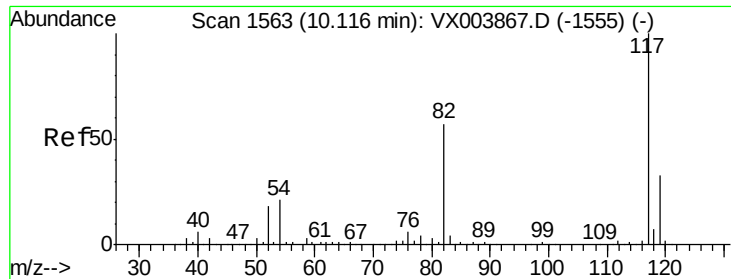
Tot Ion: 98 Resp: 580447
Ion Ratio Lower Upper
98 100
100 65.4 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 48.32 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003988.D
Acq: 10 Aug 2018 20:17

Tgt Ion: 95 Resp: 192640
Ion Ratio Lower Upper
95 100
174 93.0 0.0 182.8
176 89.1 0.0 179.0

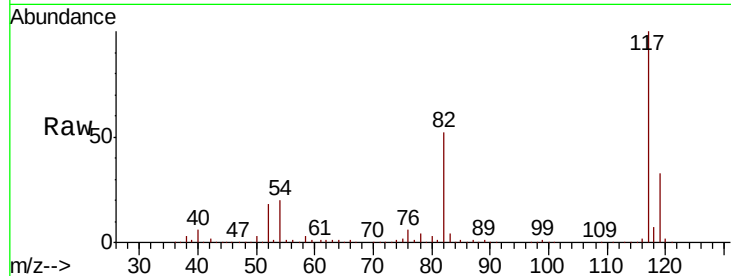




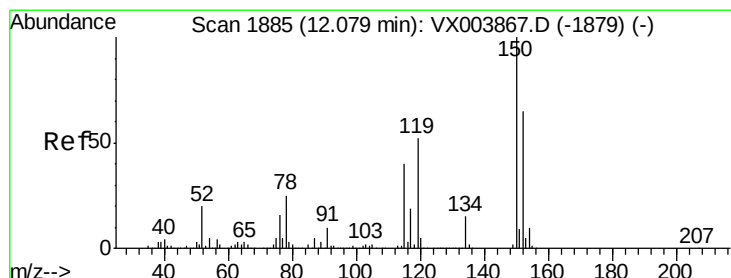
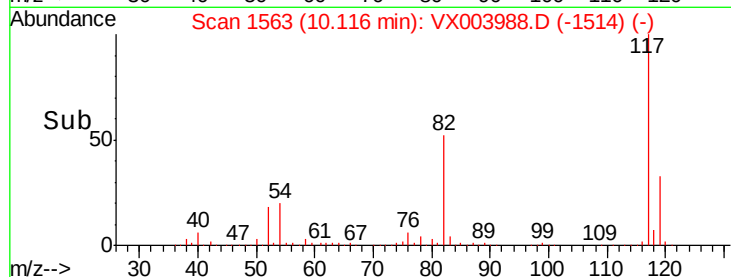
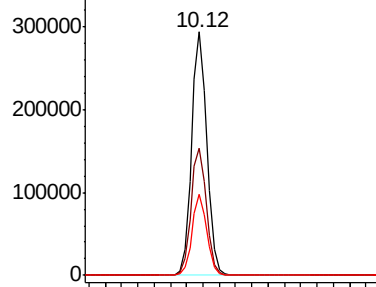
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003988.D
Acq: 10 Aug 2018 20:17

Instrument :
MSVOA_X
ClientSampleId :
MW-12

Tot Ion:117 Resp: 384324
Ion Ratio Lower Upper
117 100
82 52.1 45.4 68.0
119 33.3 26.6 40.0

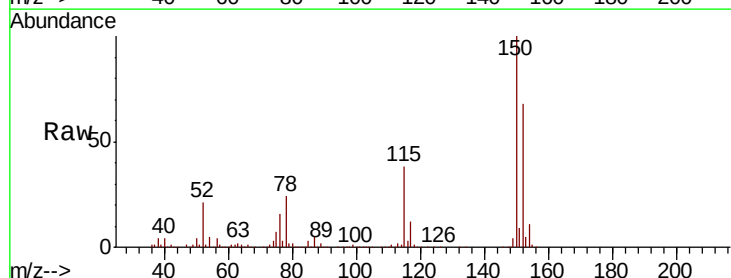


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

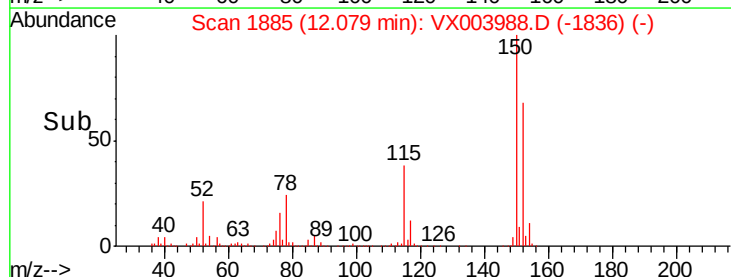
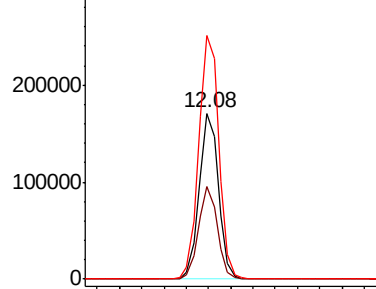


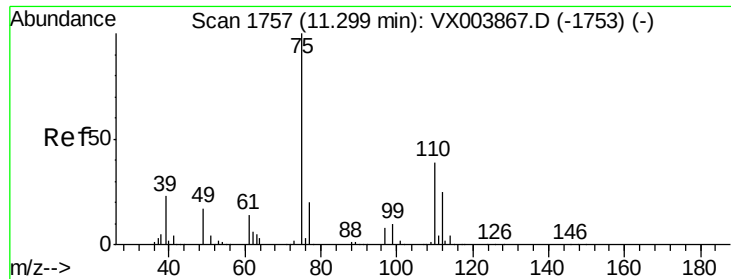
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003988.D
Acq: 10 Aug 2018 20:17

Tgt Ion:152 Resp: 204308
Ion Ratio Lower Upper
152 100
115 54.6 39.1 117.3
150 153.0 0.0 349.2



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: 20.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

Instrument :

MSVOA_X

ClientSampled :

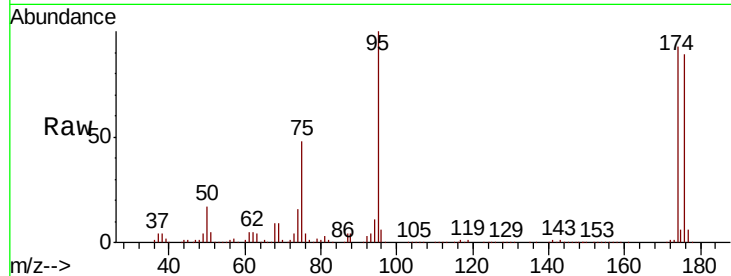
MW-12

Tot Ion: 75 Resp: 93714

Ion Ratio Lower Upper

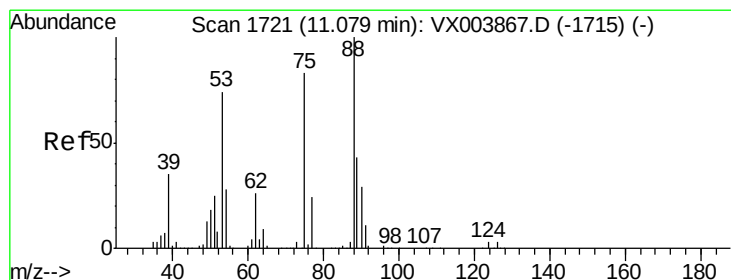
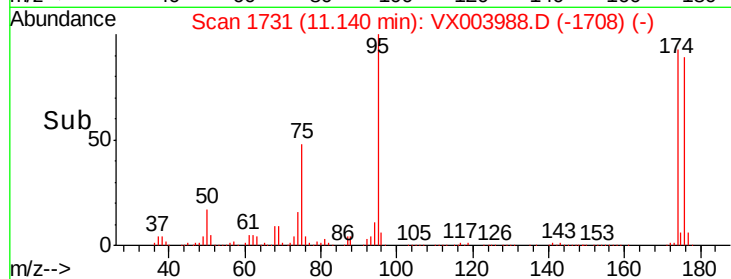
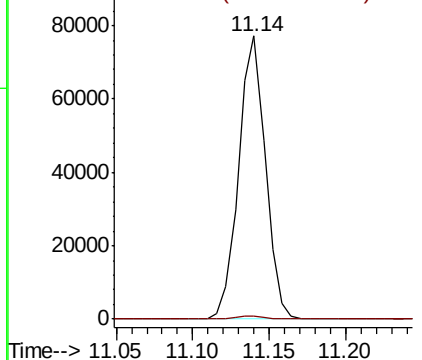
75 100

77 1.3 20.8 62.5#



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: 56.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003988.D

Acq: 10 Aug 2018 20:17

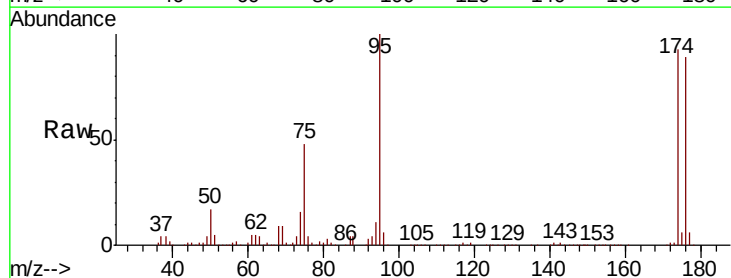
Tgt Ion: 75 Resp: 93714

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

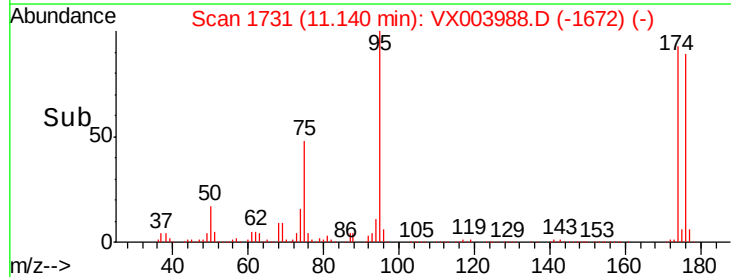
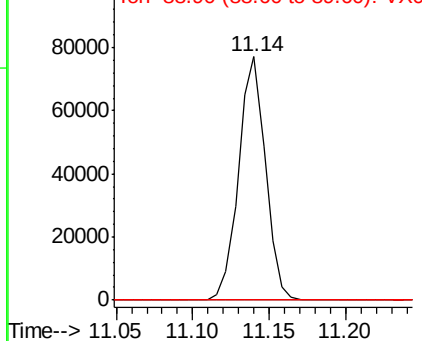
89 0.0 37.8 56.8#

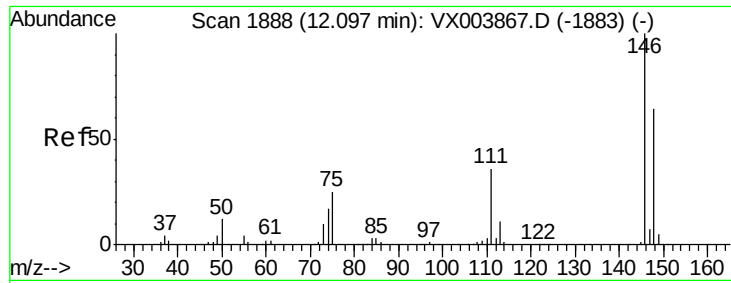


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

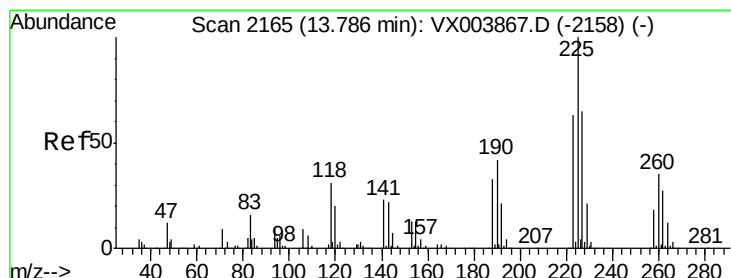
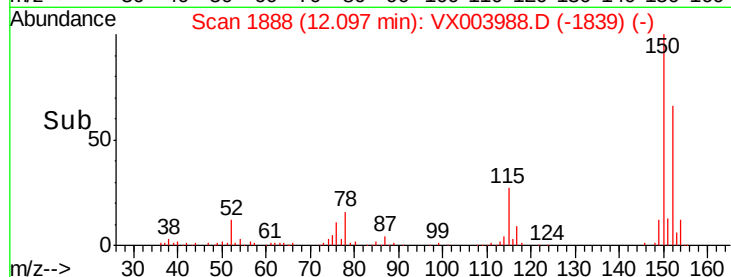
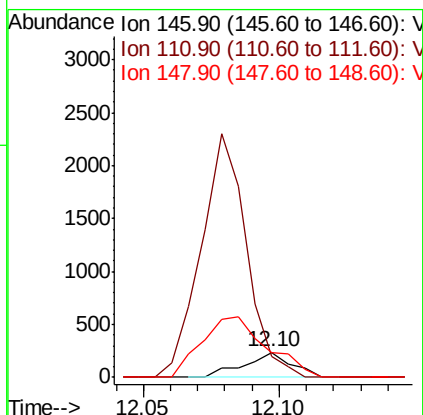
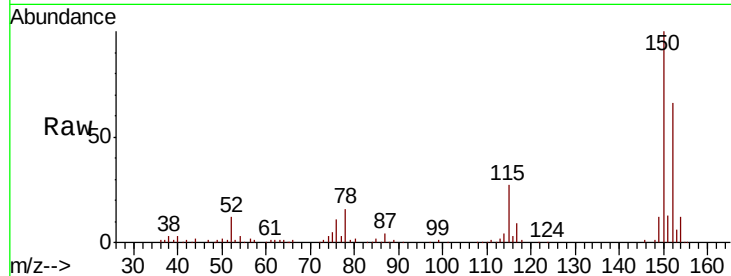




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.10 min Scan# 1888
 Delta R.T. 0.00 min
 Lab File: VX003988.D
 Acq: 10 Aug 2018 20:17

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-12

Tot Ion:146 Resp: 285
 Ion Ratio Lower Upper
 146 100
 111 936.1 18.4 55.0#
 148 335.1 32.3 96.8#



#94
 Hexachlorobutadiene
 Concen: 0.47 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003988.D
 Acq: 10 Aug 2018 20:17

Tgt Ion:225 Resp: 97
 Ion Ratio Lower Upper
 225 100
 223 23.7 31.4 94.0#
 227 76.3 32.1 96.5

