

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002885.D
 Acq On : 26 Jun 2018 02:59
 Operator : JC/MD
 Sample : J3705-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-20

Quant Time: Jun 27 05:30:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	254621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	353915	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	331751	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	191190	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	170783	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
35) Dibromofluoromethane	5.51	113	138140	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
50) Toluene-d8	8.72	98	500567	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.14	95	179930	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	23	Below Cal	#	43
3) Chloromethane	1.32	50	31244	12.34	ug/l #	47
4) Vinyl Chloride	1.41	62	640	0.22	ug/l #	1
5) Bromomethane	1.65	94	550	Below Cal	#	77
10) Methyl Iodide	2.52	142	1515	6.69	ug/l #	87
11) Tert butyl alcohol	3.07	59	874	1.25	ug/l #	62
13) Acrolein	2.29	56	92	4.46	ug/l #	1
15) Acrylonitrile	3.17	53	397	0.27	ug/l #	33
16) Acetone	2.45	43	1164	0.80	ug/l	92
17) Carbon Disulfide	2.57	76	9506	1.42	ug/l	97
19) Methyl tert-butyl Ether	3.21	73	2630	0.29	ug/l	95
29) Tetrahydrofuran	5.18	42	325	0.23	ug/l #	44
36) 1,1-Dichloropropene	5.67	75	16669	4.29	ug/l #	51
38) Carbon Tetrachloride	5.67	117	22881	5.37	ug/l #	16
49) 1,4-Dioxane	7.66	88	19	0.27	ug/l #	1
65) Chlorobenzene	10.14	112	27825	3.30	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	95129	27.47	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95129	77.70	ug/l #	7
88) 1,4-Dichlorobenzene	12.10	146	9119	1.32	ug/l #	77

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

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ClientSampleId :

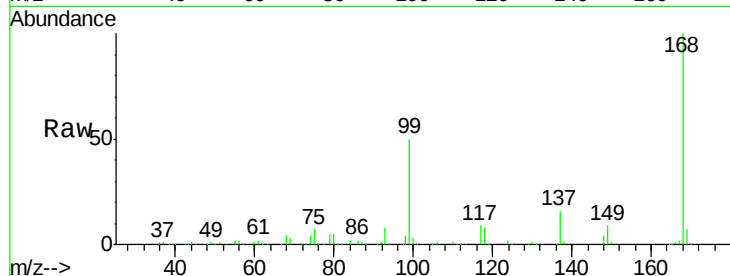
W-20

Tot Ion:168 Resp: 254621

Ion Ratio Lower Upper

168 100

99 49.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

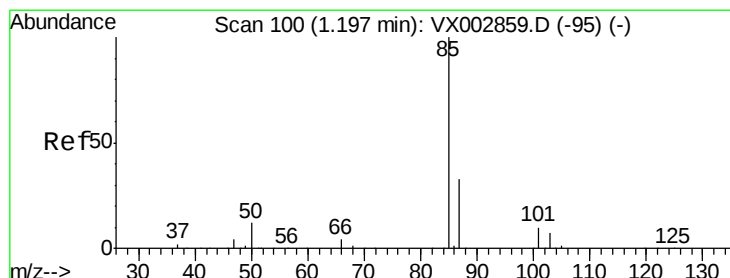
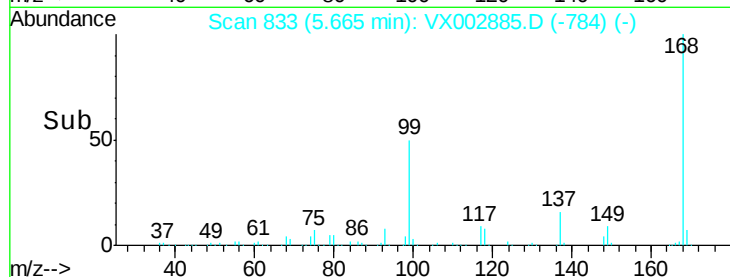
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002885.D

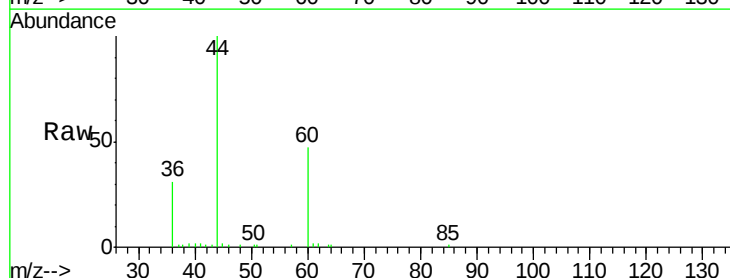
Acq: 26 Jun 2018 02:59

Tgt Ion: 85 Resp: 23

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

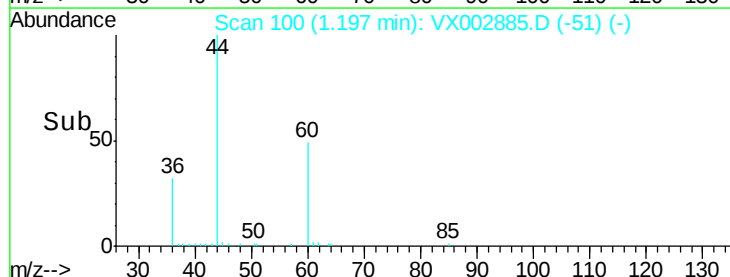
60

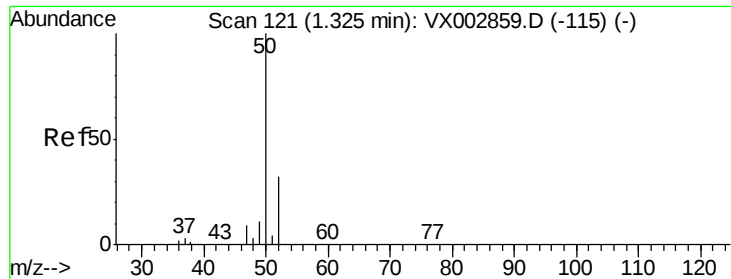
40

20

0

Time--> 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: 12.34 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampleId :

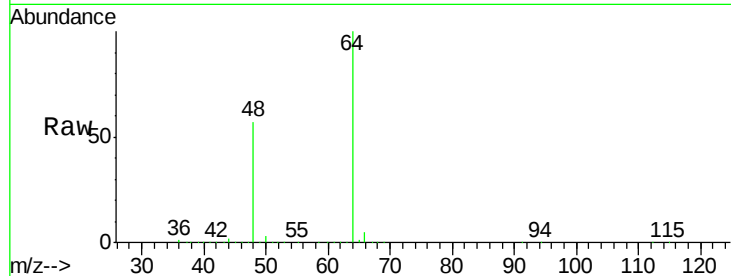
W-20

Tot Ion: 50 Resp: 31244

Ion Ratio Lower Upper

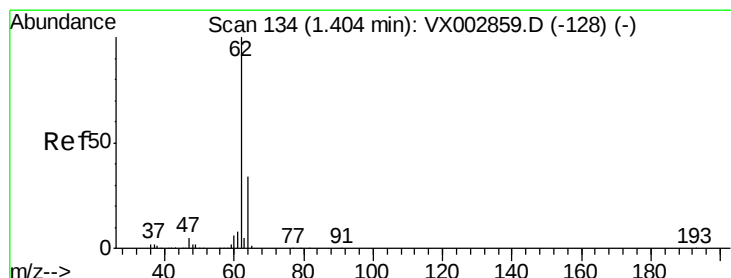
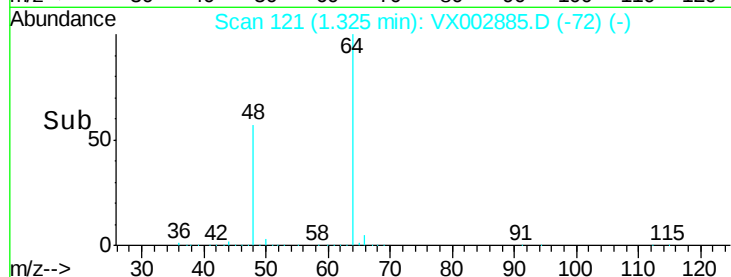
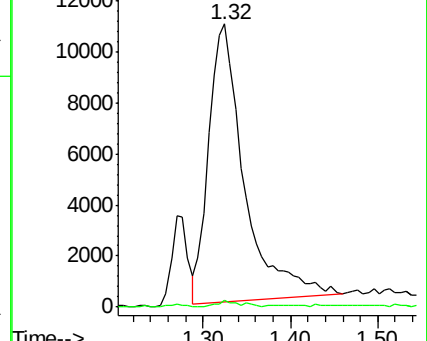
50 100

52 2.3 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.22 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX002885.D

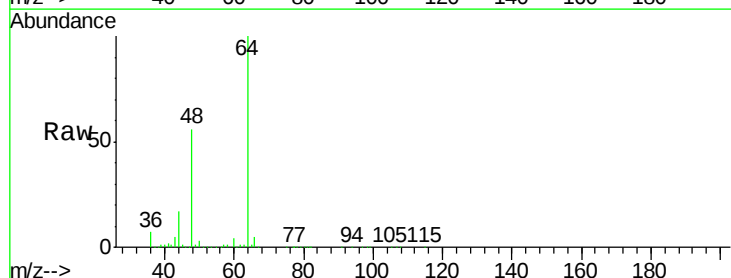
Acq: 26 Jun 2018 02:59

Tgt Ion: 62 Resp: 640

Ion Ratio Lower Upper

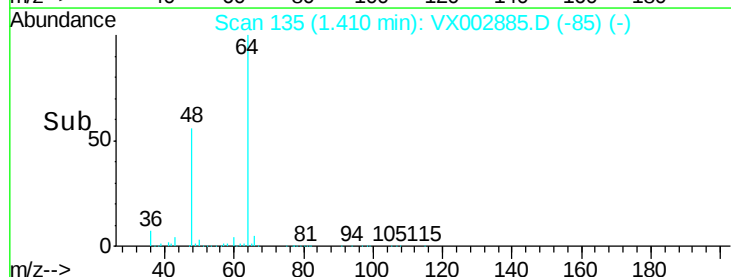
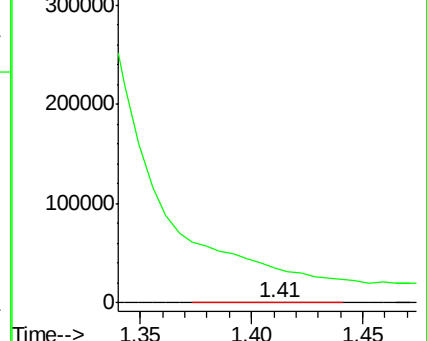
62 100

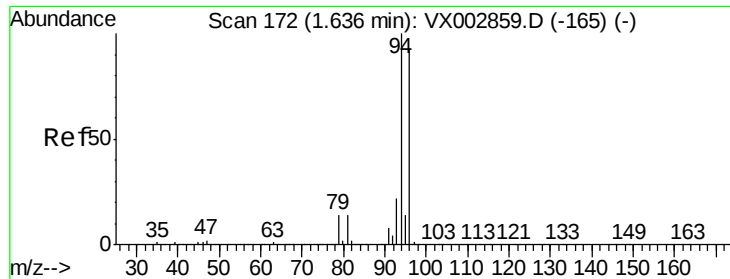
64 3014.3 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampleId :

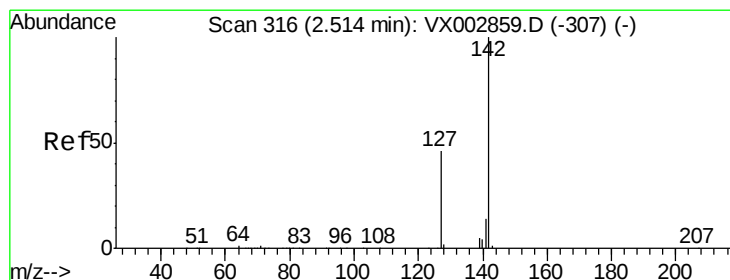
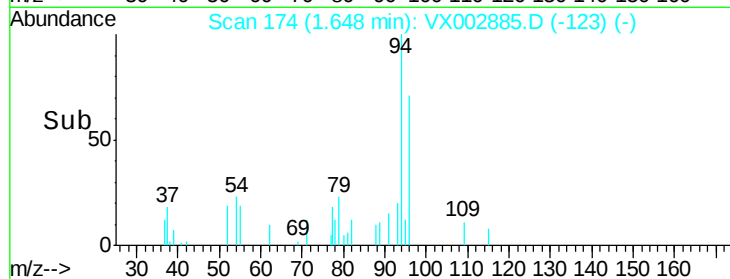
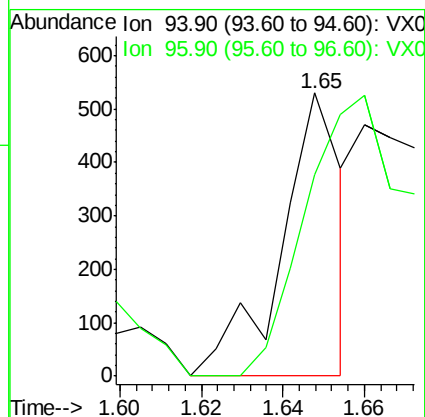
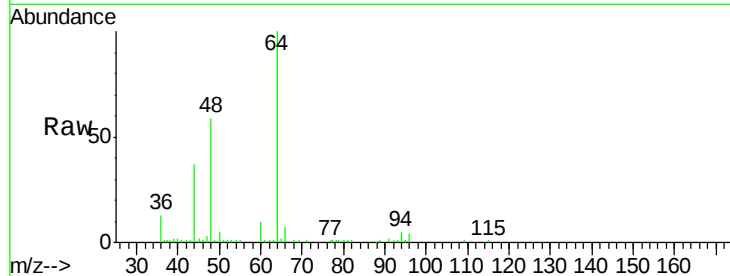
W-20

Tot Ion: 94 Resp: 550

Ion Ratio Lower Upper

94 100

96 71.3 74.9 112.3#



#10

Methyl Iodide

Concen: 6.69 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

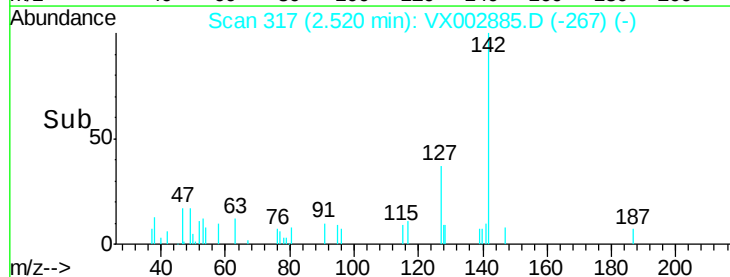
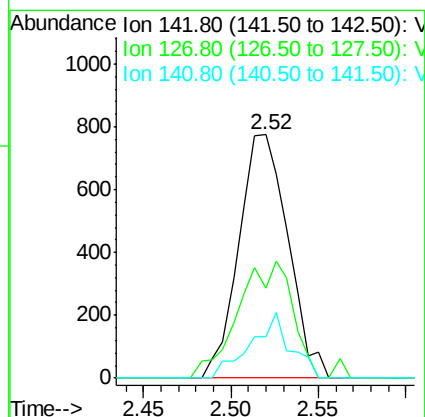
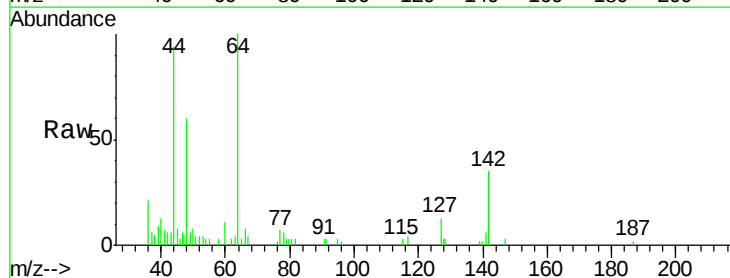
Tgt Ion:142 Resp: 1515

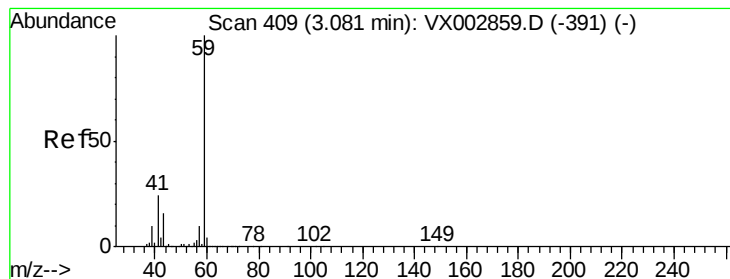
Ion Ratio Lower Upper

142 100

127 53.1 36.6 55.0

141 21.8 11.3 16.9#





#11

Tert butyl alcohol

Concen: 1.25 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampled :

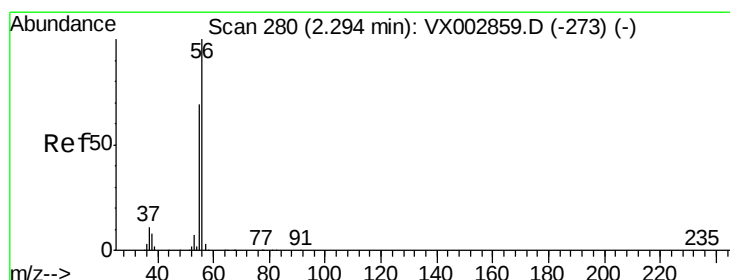
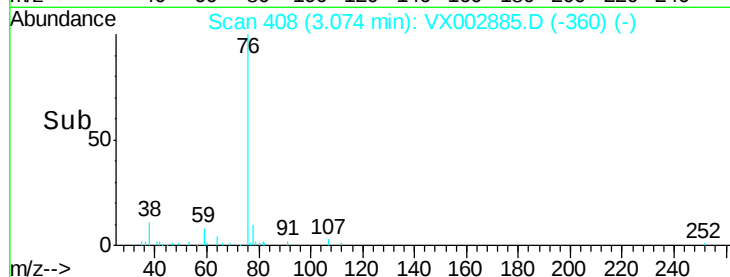
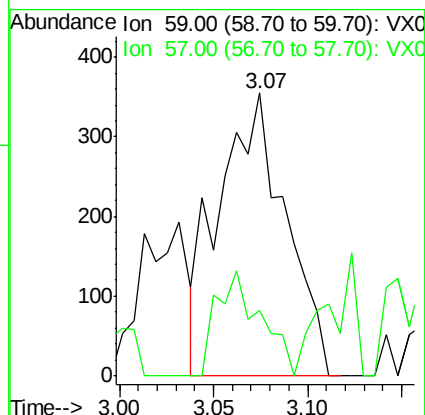
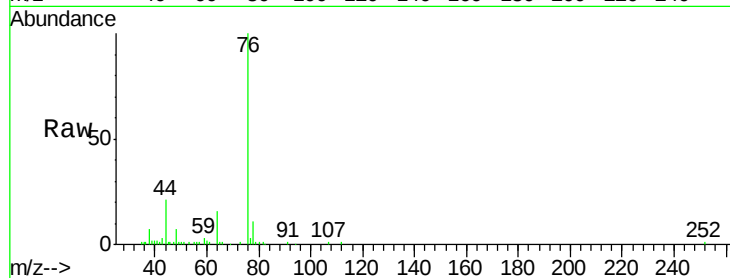
W-20

Tot Ion: 59 Resp: 874

Ion Ratio Lower Upper

59 100

57 24.4 8.2 12.2#



#13

Acrolein

Concen: 4.46 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002885.D

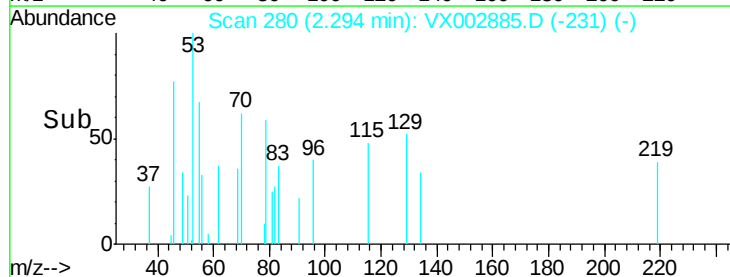
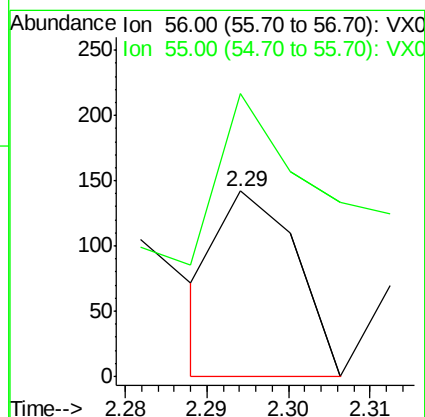
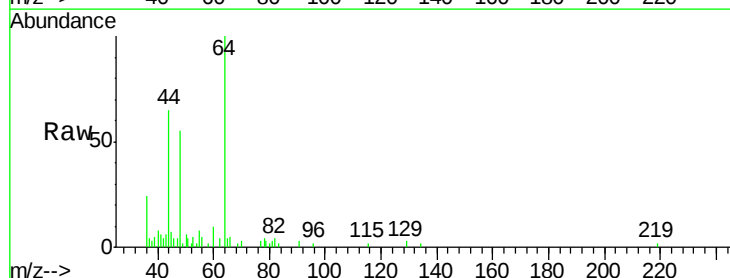
Acq: 26 Jun 2018 02:59

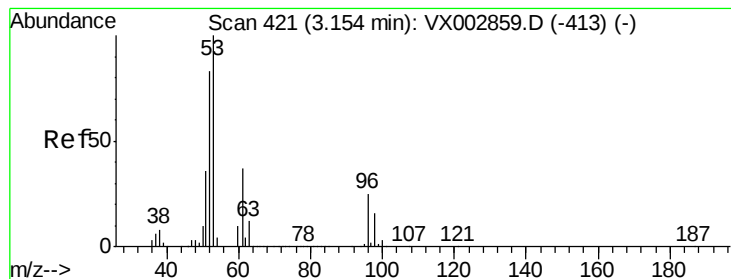
Tgt Ion: 56 Resp: 92

Ion Ratio Lower Upper

56 100

55 305.4 57.0 85.4#





#15

Acrylonitrile

Concen: 0.27 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampled :

W-20

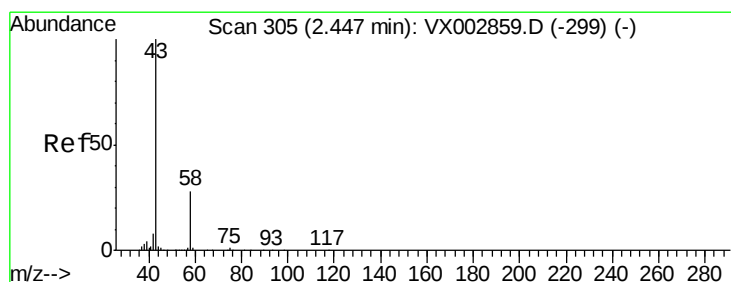
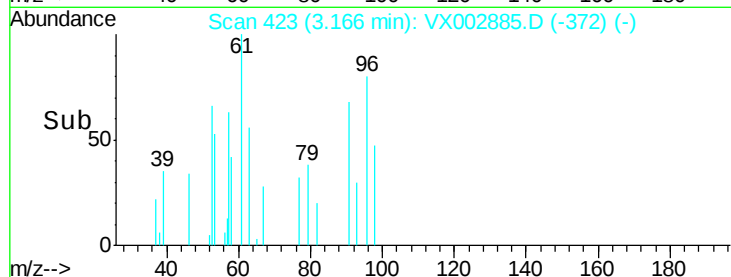
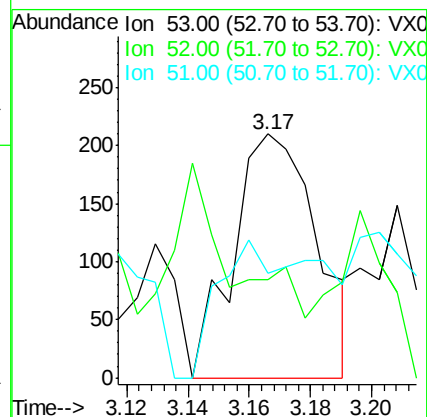
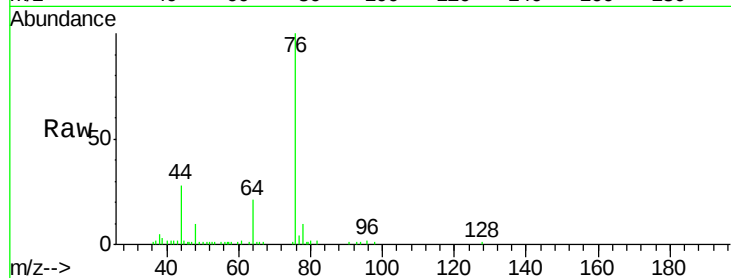
Tot Ion: 53 Resp: 397

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 43.6 29.9 44.9



#16

Acetone

Concen: 0.80 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002885.D

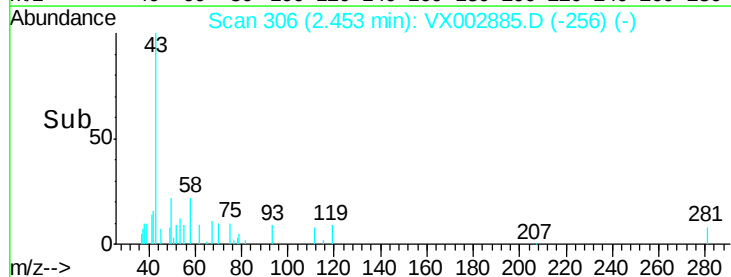
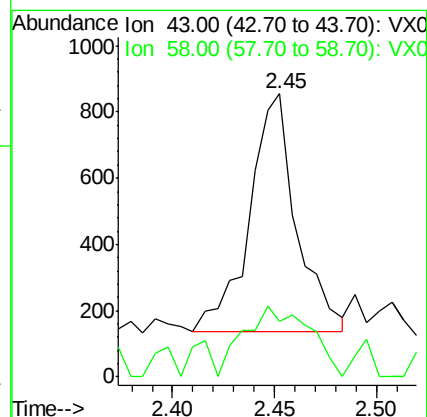
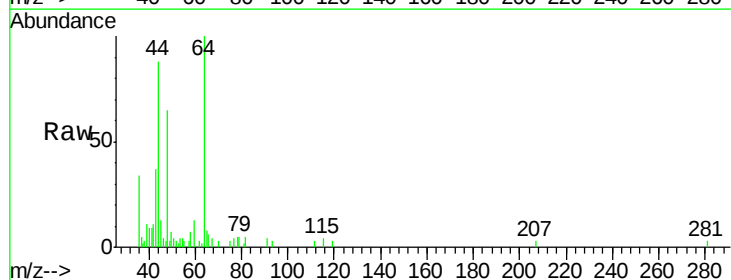
Acq: 26 Jun 2018 02:59

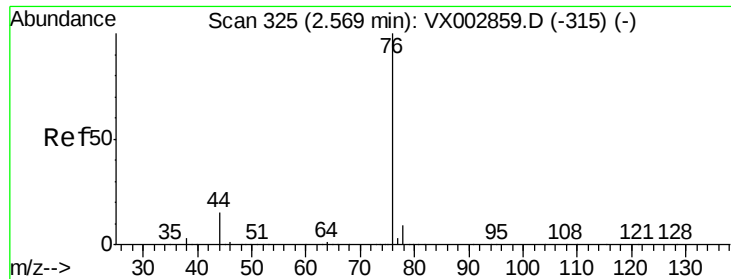
Tgt Ion: 43 Resp: 1164

Ion Ratio Lower Upper

43 100

58 23.5 22.1 33.1





#17

Carbon Disulfide

Concen: 1.42 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampled :

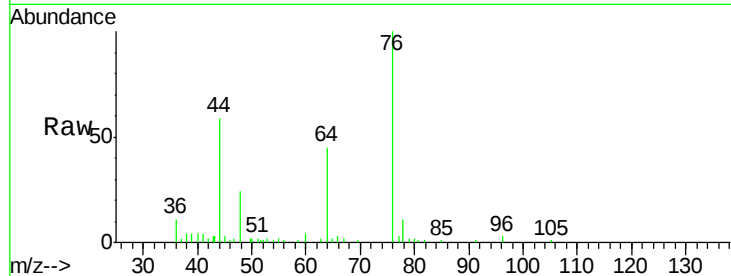
W-20

Tot Ion: 76 Resp: 9506

Ion Ratio Lower Upper

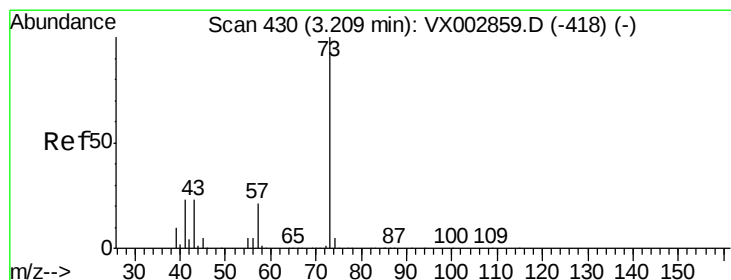
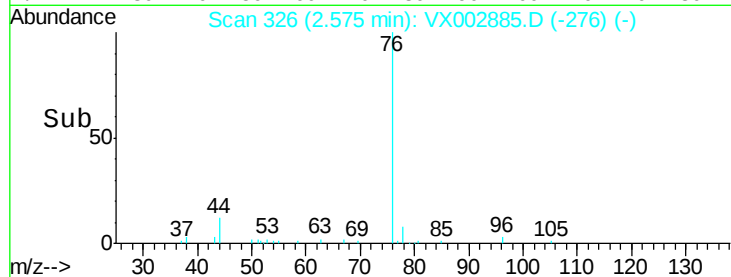
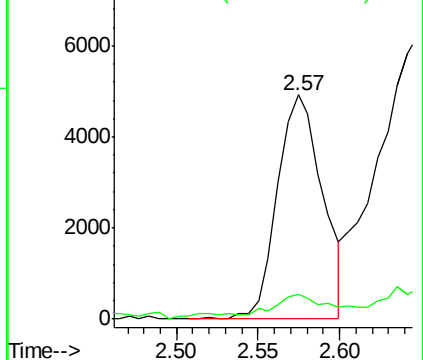
76 100

78 9.6 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 0.29 ug/l

RT: 3.21 min Scan# 430

Delta R.T. -0.00 min

Lab File: VX002885.D

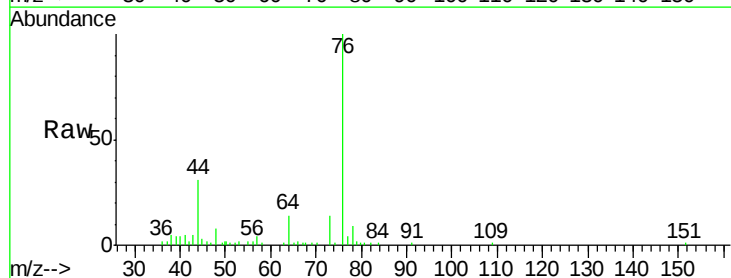
Acq: 26 Jun 2018 02:59

Tgt Ion: 73 Resp: 2630

Ion Ratio Lower Upper

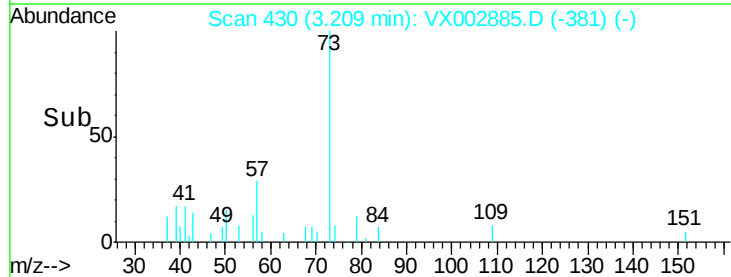
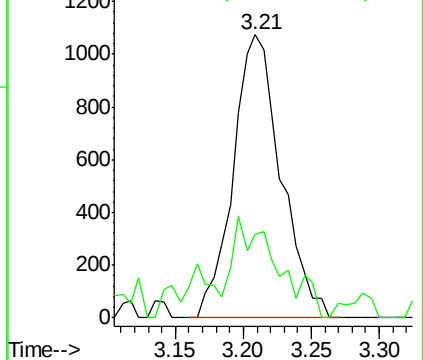
73 100

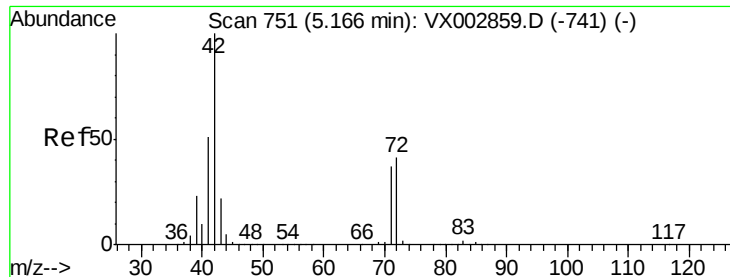
57 24.4 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

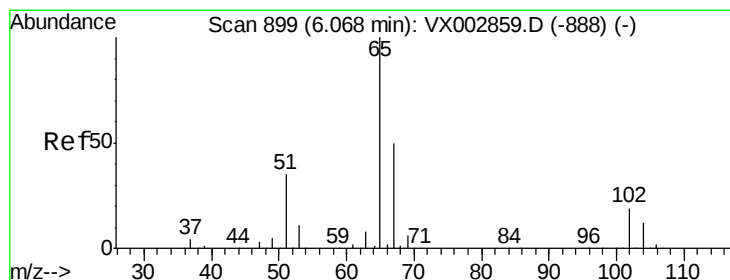
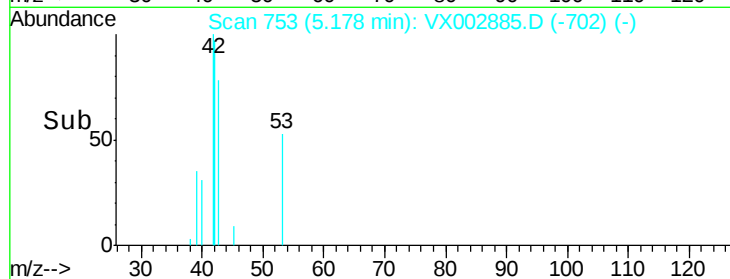
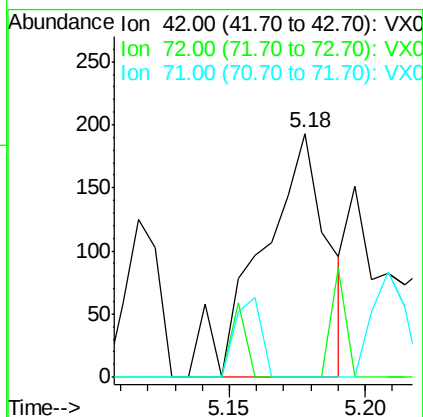
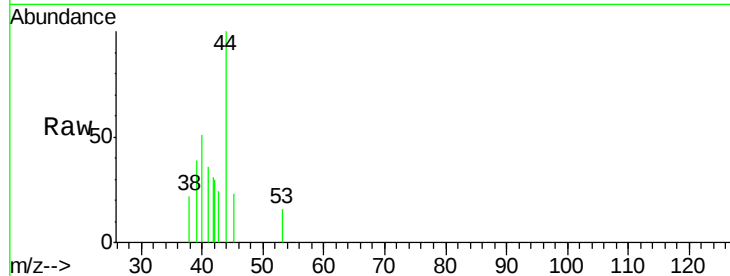




#29
Tetrahydrofuran
Concen: 0.23 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002885.D
Acq: 26 Jun 2018 02:59

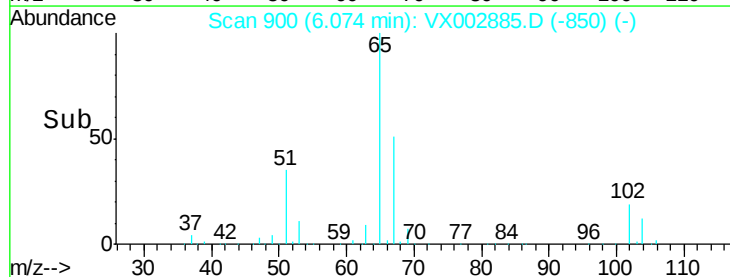
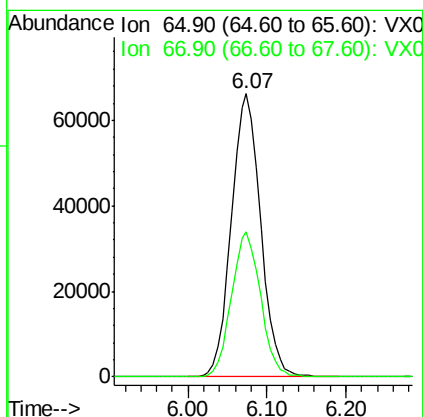
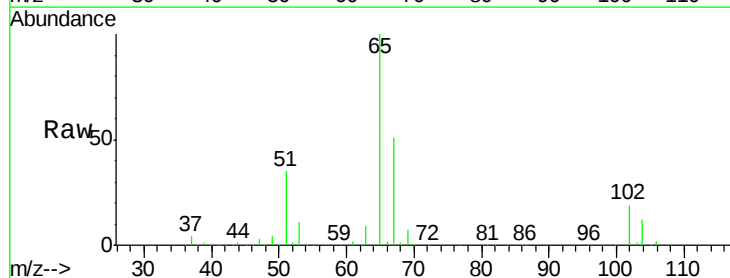
Instrument :
MSVOA_X
ClientSampleID :
W-20

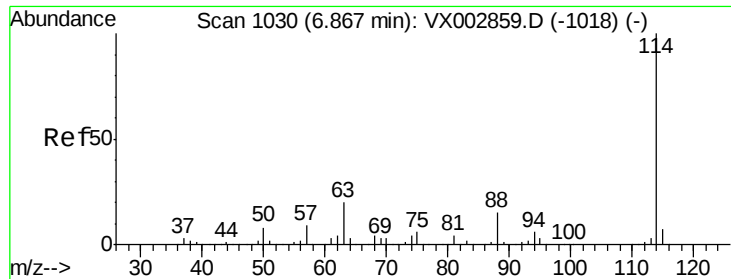
Tot Ion: 42 Resp: 325
Ion Ratio Lower Upper
42 100
72 9.5 32.0 48.0#
71 0.0 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 48.53 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002885.D
Acq: 26 Jun 2018 02:59

Tgt Ion: 65 Resp: 170783
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6

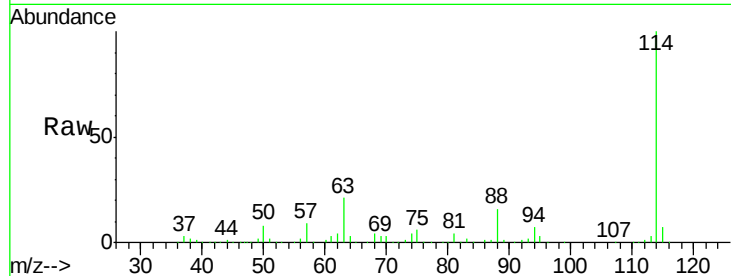




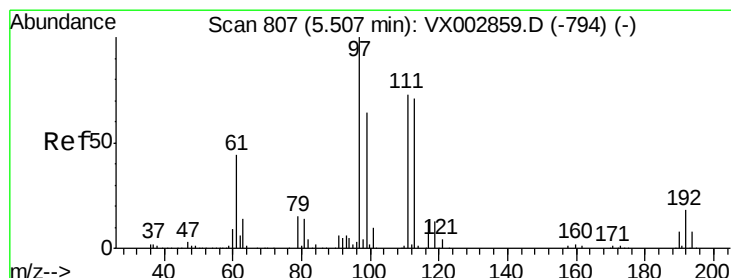
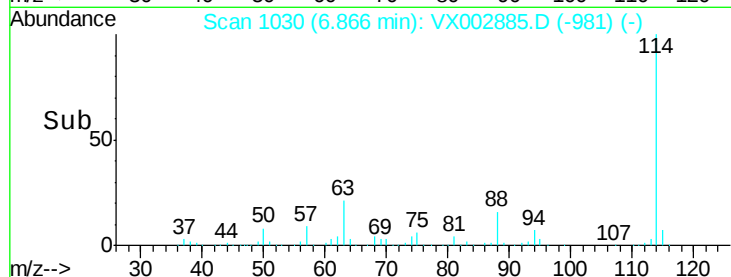
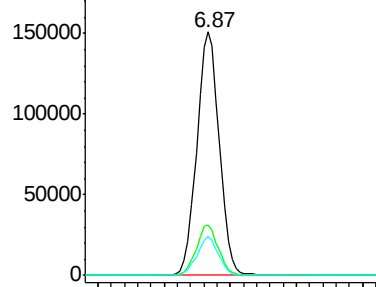
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VX002885.D
Acq: 26 Jun 2018 02:59

Instrument :
MSVOA_X
ClientSampleId :
W-20

Tot Ion:114 Resp: 353915
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.4
88 15.7 0.0 30.0

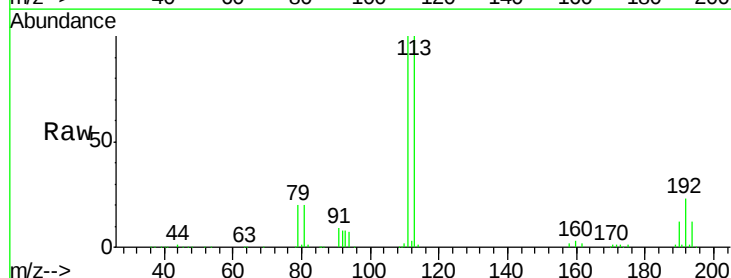


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

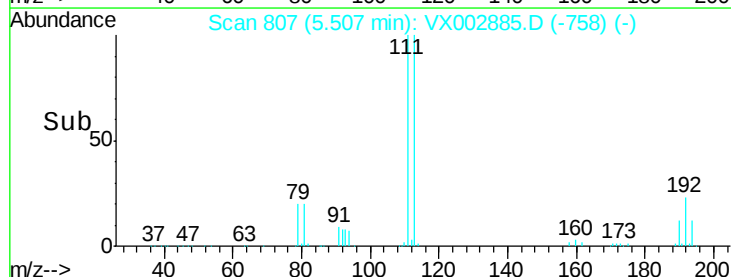
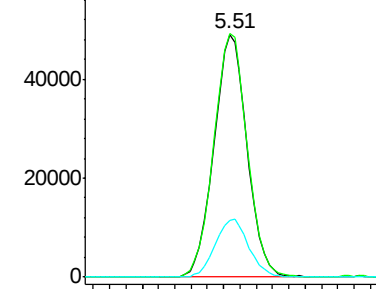


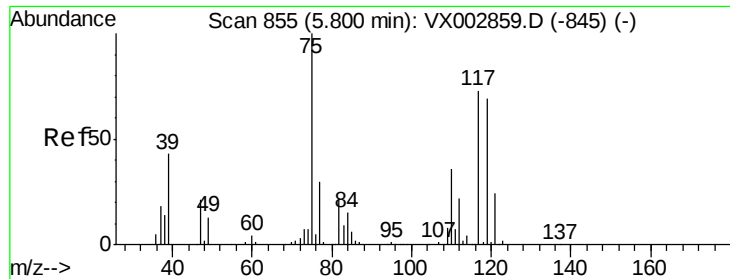
#35
Dibromofluoromethane
Concen: 49.29 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002885.D
Acq: 26 Jun 2018 02:59

Tgt Ion:113 Resp: 138140
Ion Ratio Lower Upper
113 100
111 101.5 81.4 122.0
192 24.2 19.1 28.7



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

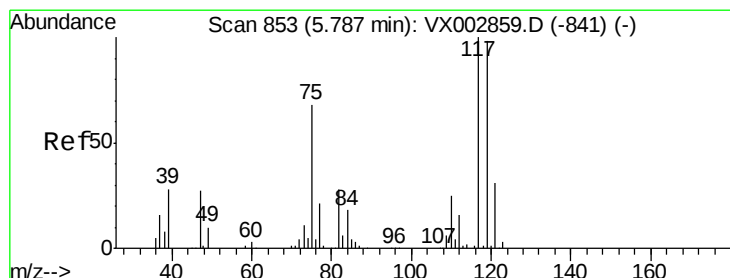
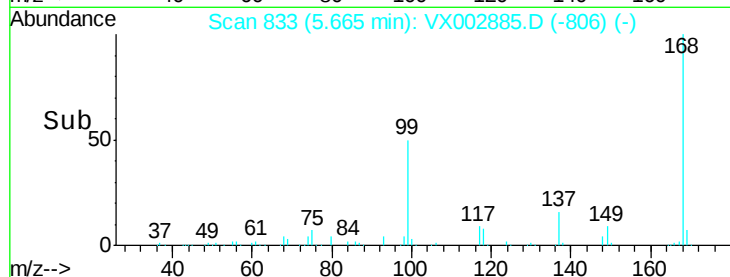
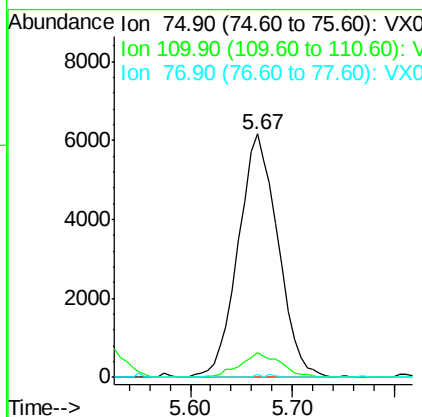
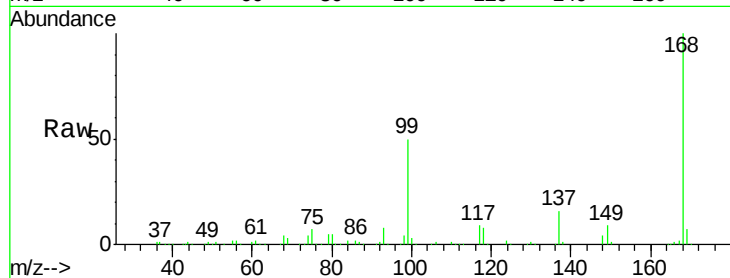




#36
 1,1-Dichloropropene
 Concen: 4.29 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002885.D
 Acq: 26 Jun 2018 02:59

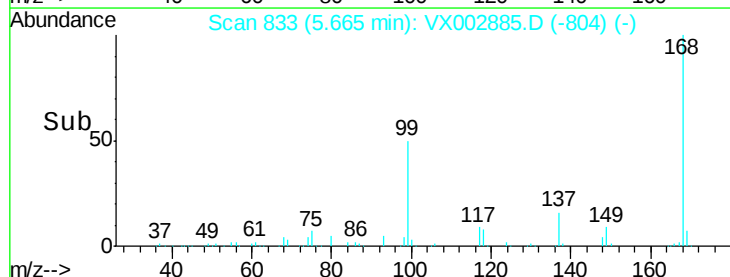
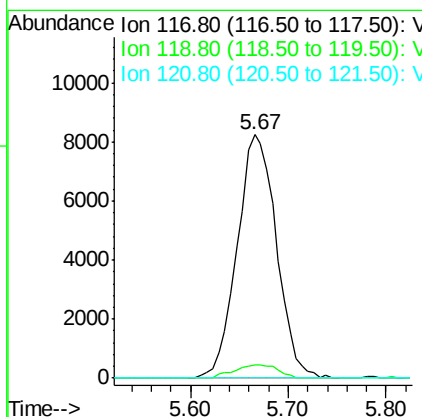
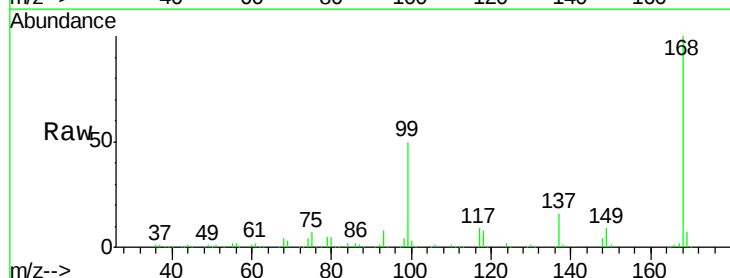
Instrument :
 MSVOA_X
 ClientSampleId :
 W-20

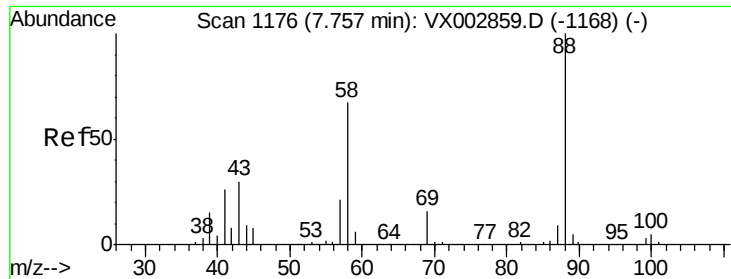
Tot Ion: 75 Resp: 16669
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.1 54.4#
 77 0.2 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.37 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002885.D
 Acq: 26 Jun 2018 02:59

Tgt Ion: 117 Resp: 22881
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.4 116.0#
 121 0.0 24.4 36.6#

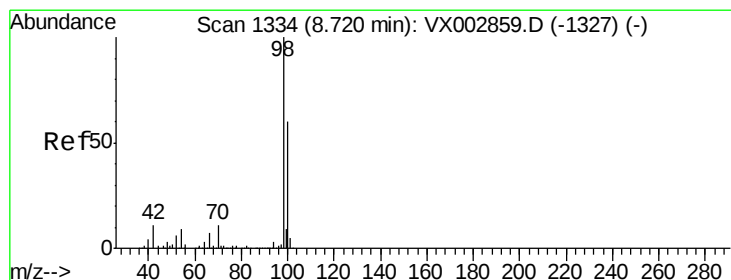
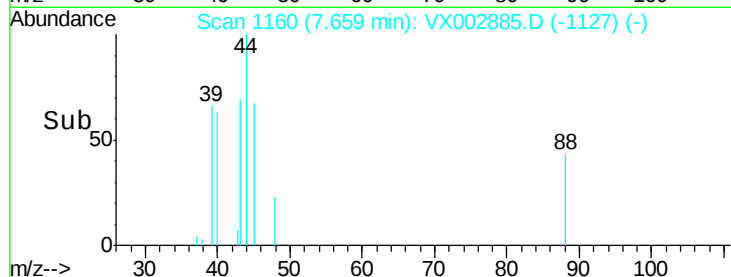
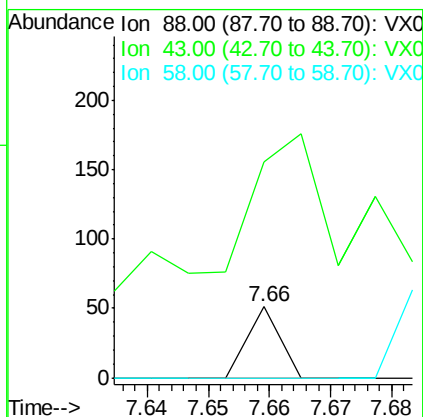
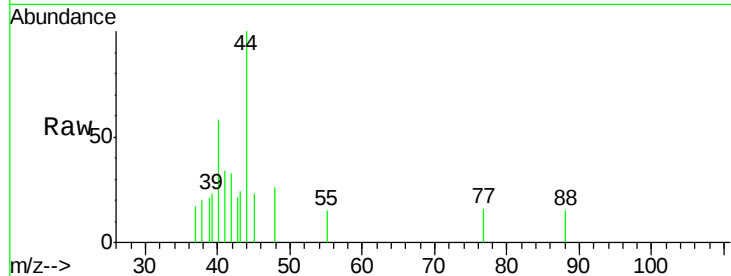




#49
1,4-Dioxane
Concen: 0.27 ug/l
RT: 7.66 min Scan# 1160
Delta R.T. -0.10 min
Lab File: VX002885.D
Acq: 26 Jun 2018 02:59

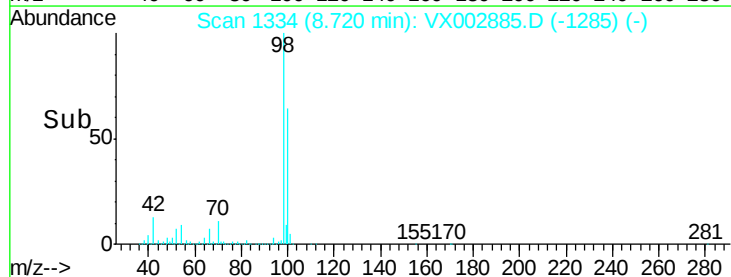
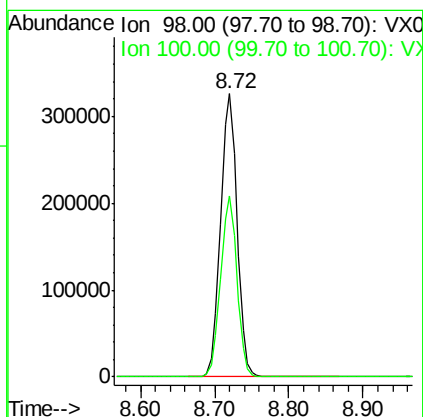
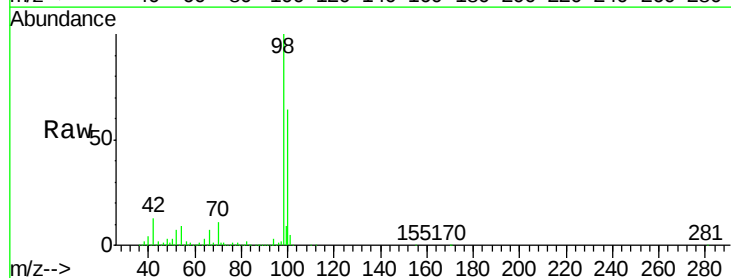
Instrument :
MSVOA_X
ClientSampled :
W-20

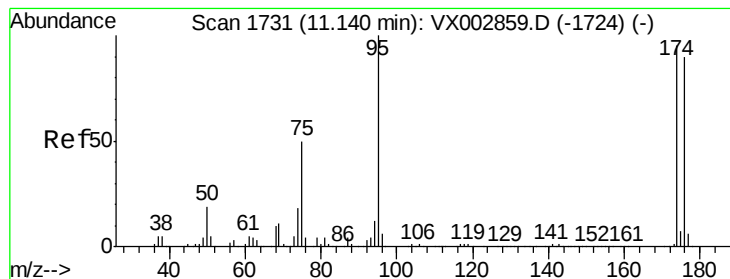
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 526.3 29.8 44.6#
58 0.0 57.1 85.7#



#50
Toluene-d8
Concen: 48.91 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002885.D
Acq: 26 Jun 2018 02:59

Tgt Ion: 98 Resp: 500567
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 45.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampleId :

W-20

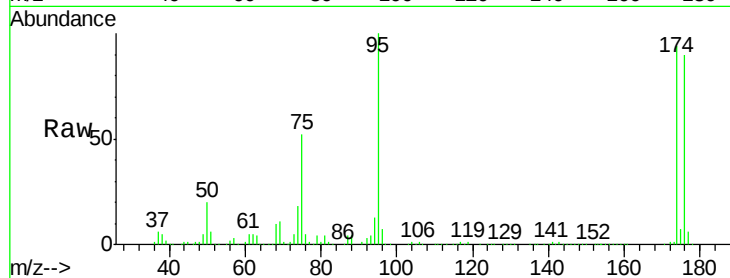
Tot Ion: 95 Resp: 179930

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.4

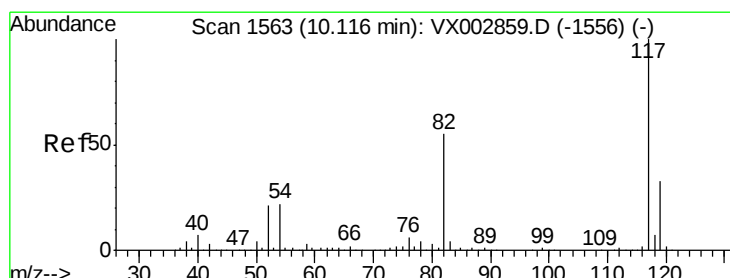
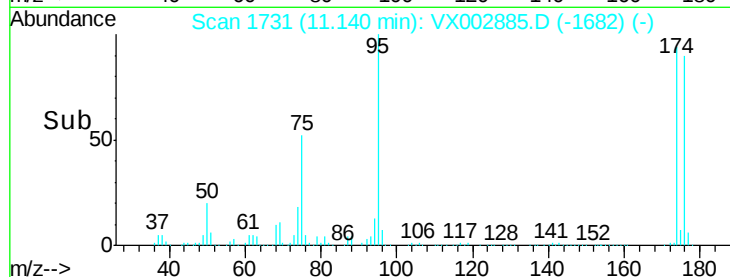
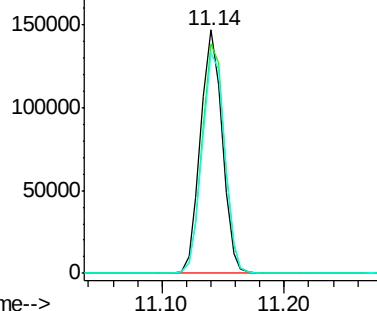
176 94.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002885.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002885.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002885.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

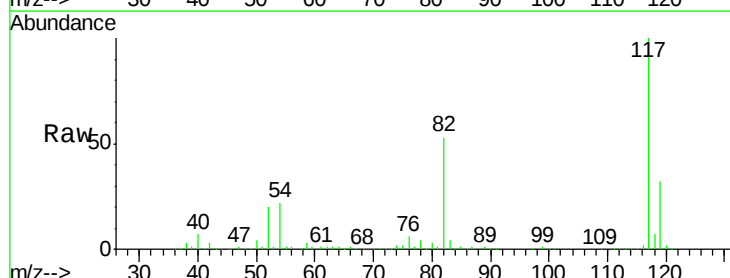
Tgt Ion: 117 Resp: 331751

Ion Ratio Lower Upper

117 100

82 52.8 45.0 67.4

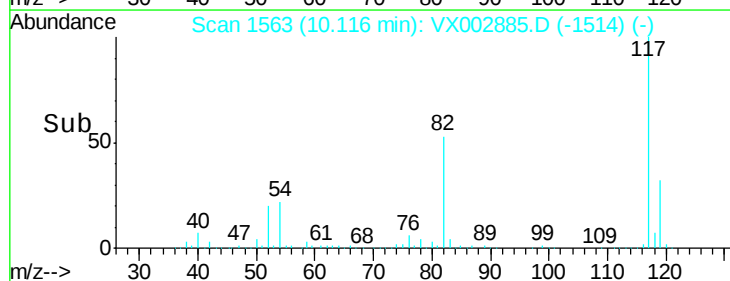
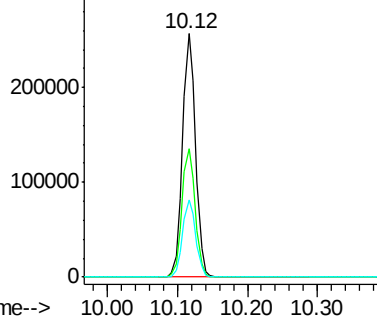
119 31.9 25.8 38.6

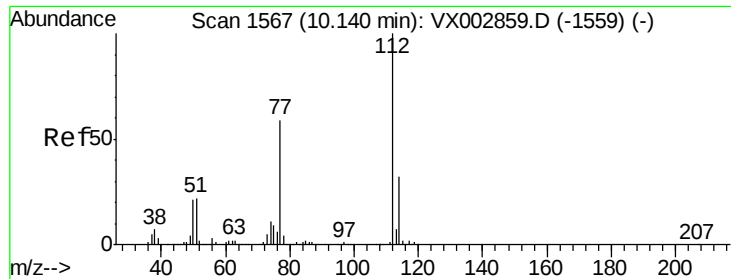


Abundance Ion 116.90 (116.60 to 117.60): VX002885.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002885.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002885.D (-1556) (-)





#65

Chlorobenzene

Concen: 3.30 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampleId :

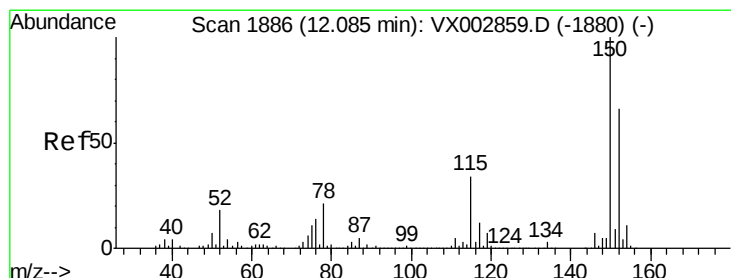
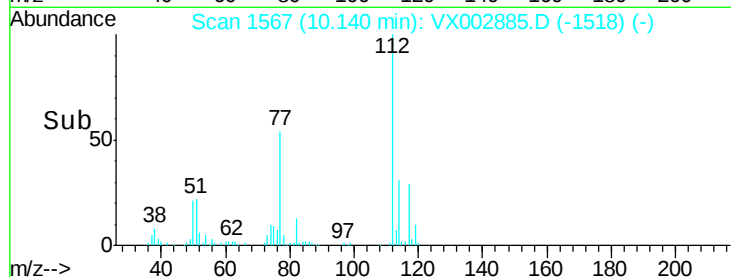
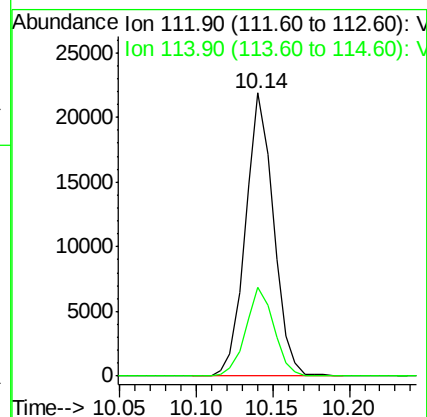
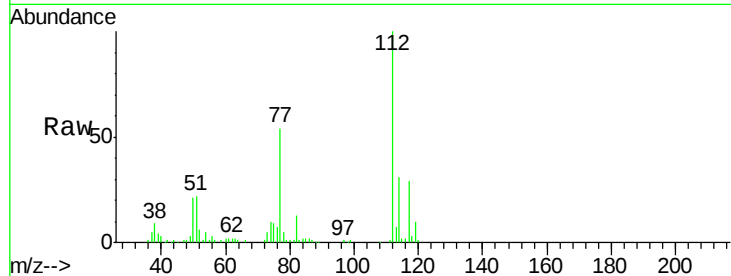
W-20

Tot Ion:112 Resp: 27825

Ion Ratio Lower Upper

112 100

114 31.3 25.3 37.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002885.D

Acq: 26 Jun 2018 02:59

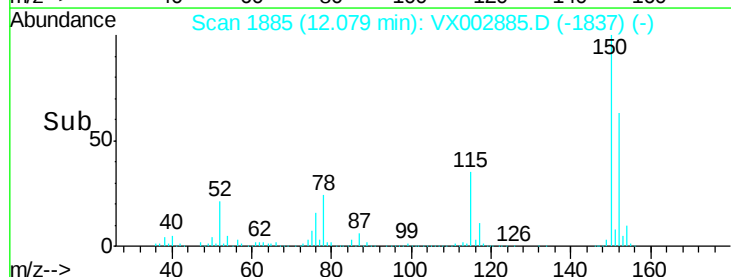
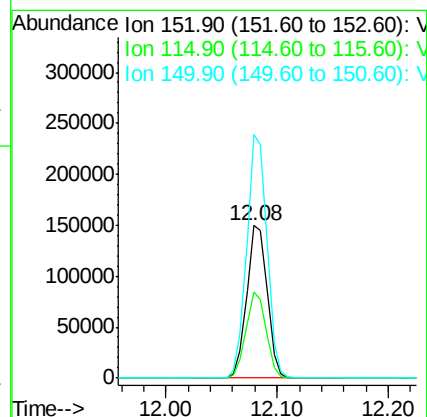
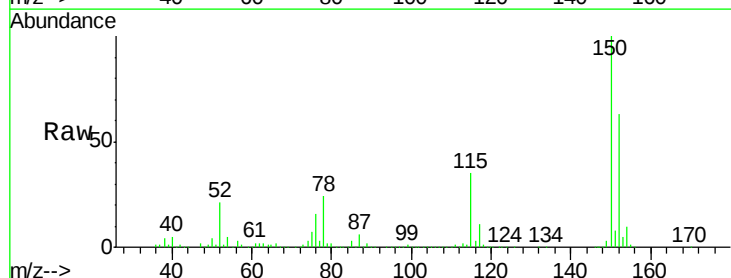
Tgt Ion:152 Resp: 191190

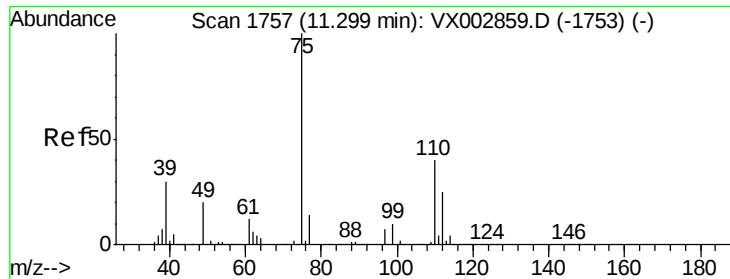
Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

150 157.9 0.0 347.2

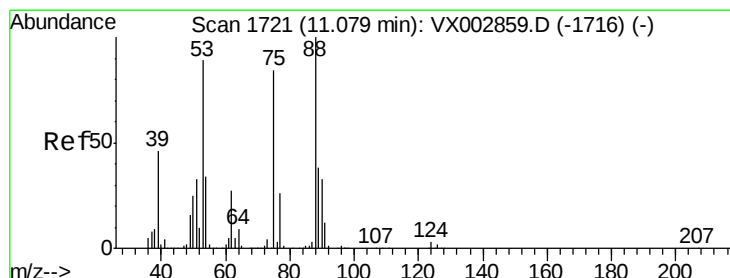
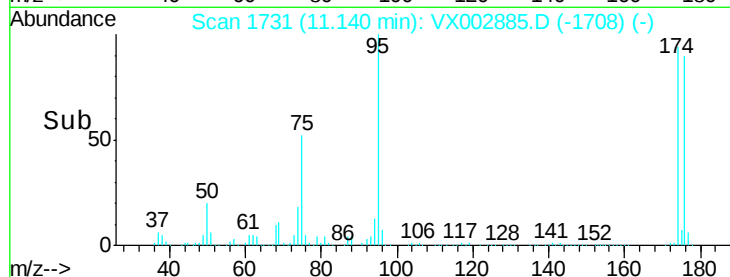
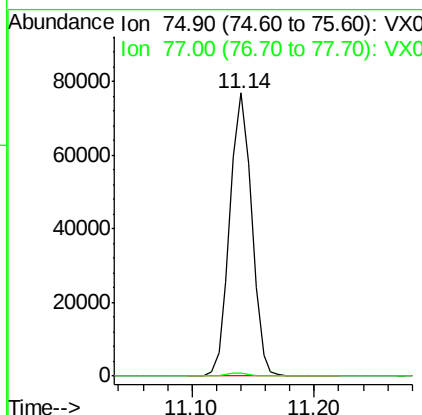
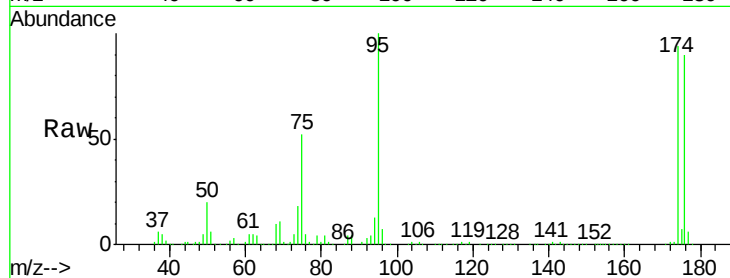




#76
 1,2,3-Trichloropropane
 Concen: 27.47 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002885.D
 Acq: 26 Jun 2018 02:59

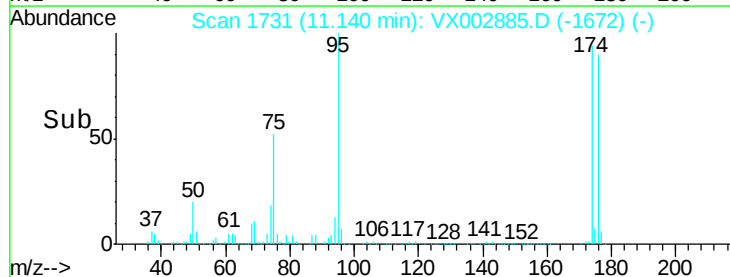
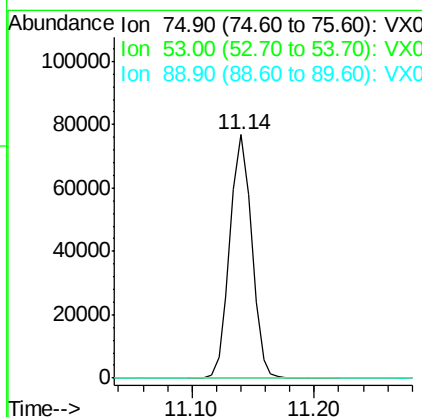
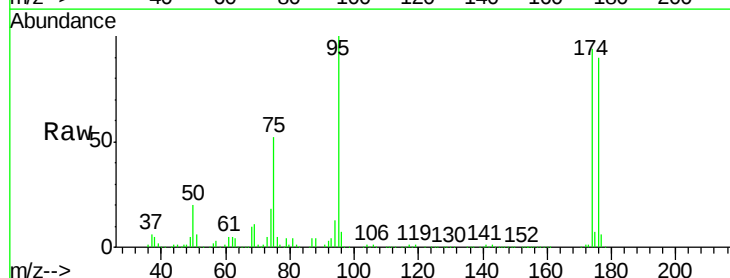
Instrument :
 MSVOA_X
 ClientSampleId :
 W-20

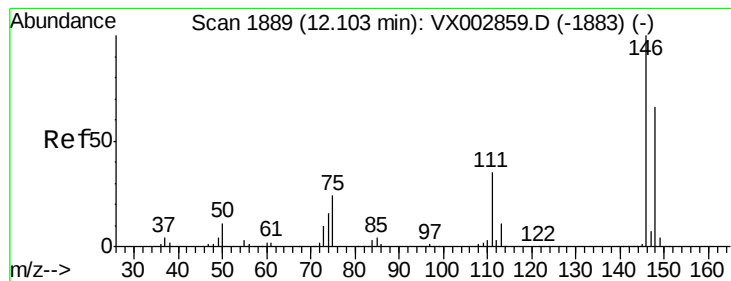
Tot Ion: 75 Resp: 95129
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.70 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002885.D
 Acq: 26 Jun 2018 02:59

Tgt Ion: 75 Resp: 95129
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#





#88

1,4-Dichlorobenzene

Concen: 1.32 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX002885.D

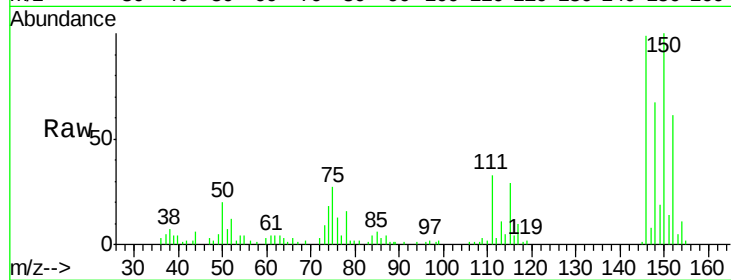
Acq: 26 Jun 2018 02:59

Instrument :

MSVOA_X

ClientSampleId :

W-20



Tot Ion:146 Resp: 9119

Ion Ratio Lower Upper

146 100

111 63.0 18.7 56.1#

148 73.7 32.4 97.0

