

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062518\
 Data File : VX002886.D
 Acq On : 26 Jun 2018 03:26
 Operator : JC/MD
 Sample : J3693-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-15

Quant Time: Jun 27 05:30:35 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	249944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	350176	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	325580	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187622	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	170031	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
35) Dibromofluoromethane	5.51	113	137001	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
50) Toluene-d8	8.72	98	492428	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	11.14	95	174973	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

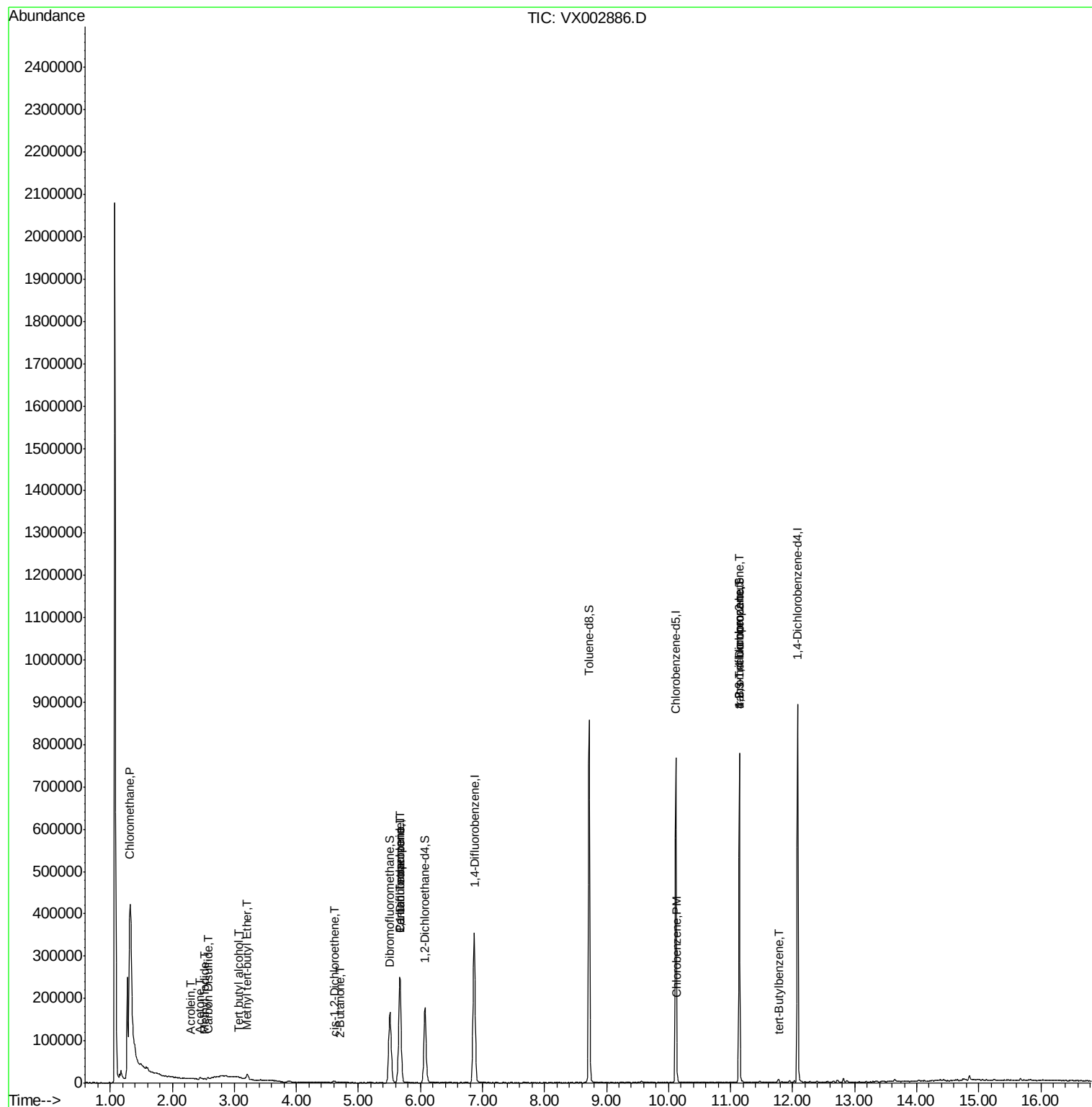
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.37	85	28	Below Cal	#	43
3) Chloromethane	1.32	50	17394	6.47	ug/l	54
5) Bromomethane	1.66	94	1245	Below Cal	#	78
10) Methyl Iodide	2.52	142	2094	6.88	ug/l	94
11) Tert butyl alcohol	3.07	59	2450	3.56	ug/l	76
13) Acrolein	2.30	56	230	4.82	ug/l	1
16) Acetone	2.45	43	4661	3.26	ug/l	91
17) Carbon Disulfide	2.57	76	7043	1.07	ug/l	91
19) Methyl tert-butyl Ether	3.21	73	12338	1.39	ug/l	99
25) 2-Butanone	4.71	43	934	0.44	ug/l	68
27) cis-1,2-Dichloroethene	4.61	96	1016	0.34	ug/l	1
36) 1,1-Dichloropropene	5.67	75	17088	4.45	ug/l	51
38) Carbon Tetrachloride	5.67	117	22702	5.39	ug/l	16
65) Chlorobenzene	10.14	112	1874	0.23	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	92883	27.33	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	92883	77.33	ug/l	7
83) tert-Butylbenzene	11.77	119	2645	0.25	ug/l	89

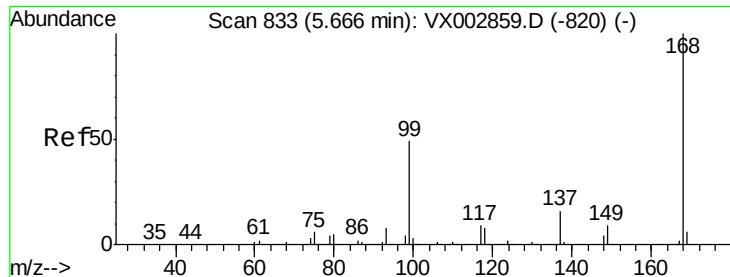
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062518\
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampleId :

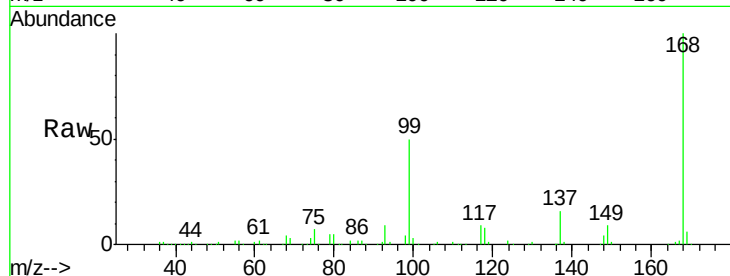
W-15

Tot Ion:168 Resp: 249944

Ion Ratio Lower Upper

168 100

99 50.2 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

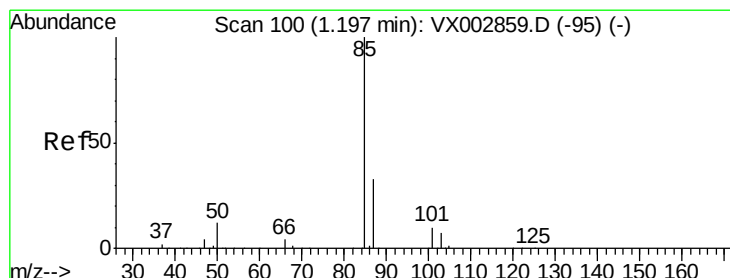
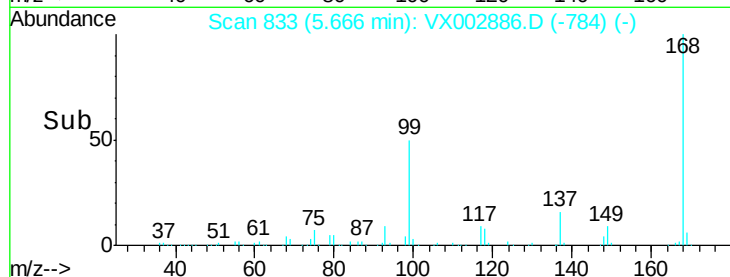
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.37 min Scan# 128

Delta R.T. 0.17 min

Lab File: VX002886.D

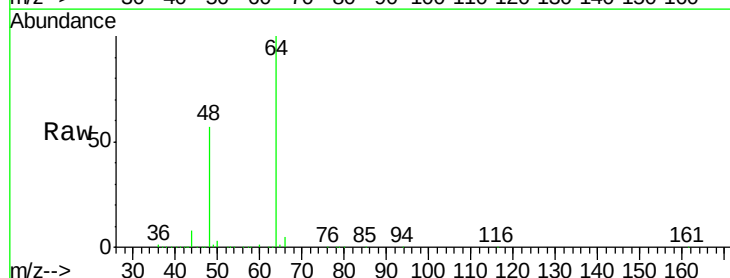
Acq: 26 Jun 2018 03:26

Tgt Ion: 85 Resp: 28

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

1.37

80

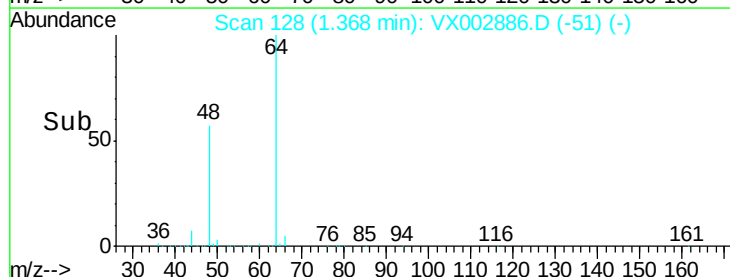
60

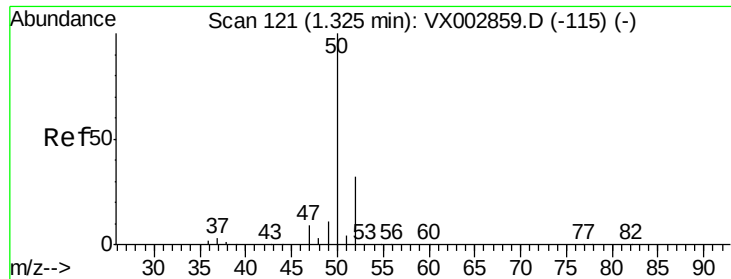
40

20

0

Time--> 1.35 1.36 1.37 1.38





#3

Chloromethane

Concen: 6.47 ua/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

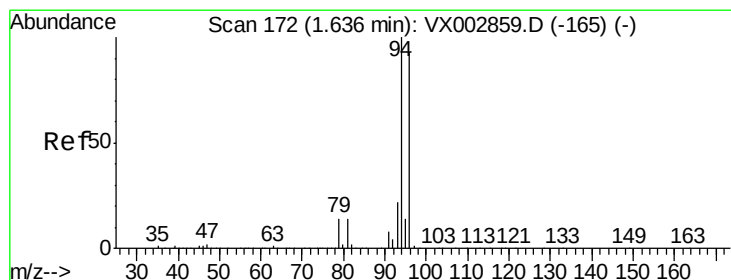
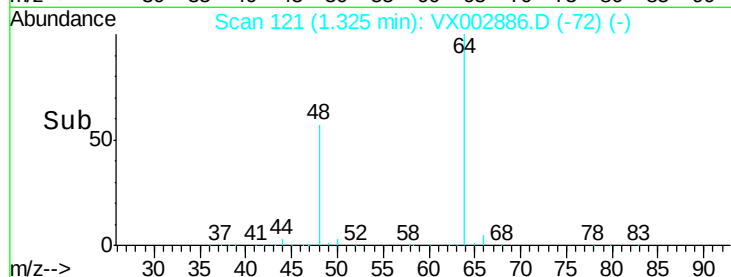
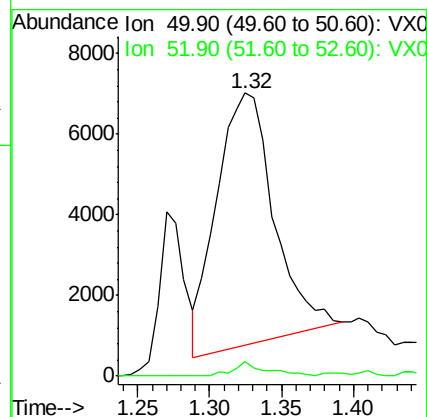
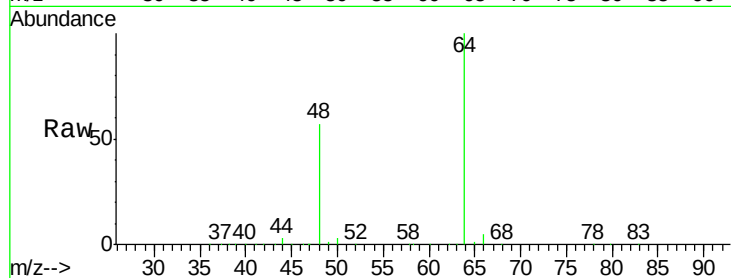
W-15

Tot Ion: 50 Resp: 17394

Ion Ratio Lower Upper

50 100

52 6.2 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002886.D

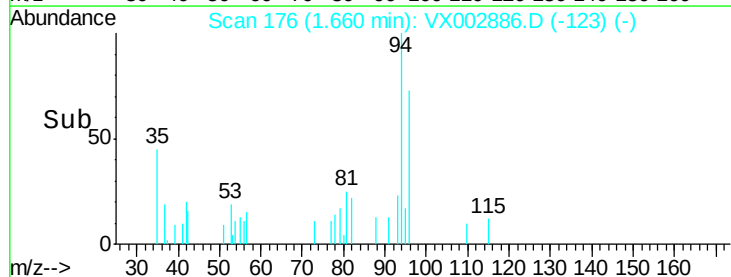
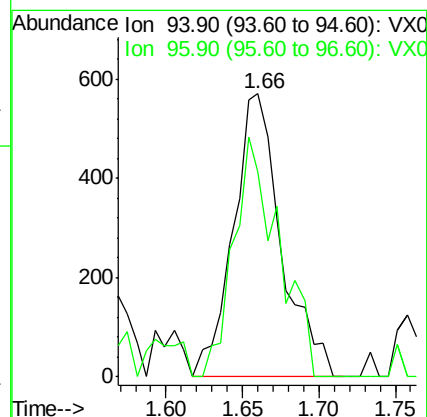
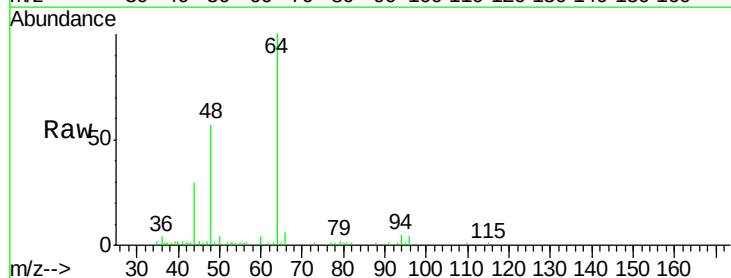
Acq: 26 Jun 2018 03:26

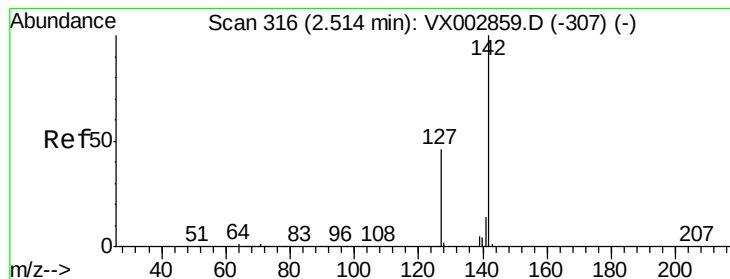
Tgt Ion: 94 Resp: 1245

Ion Ratio Lower Upper

94 100

96 72.7 74.9 112.3#





#10

Methvl Iodide

Concen: 6.88 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

W-15

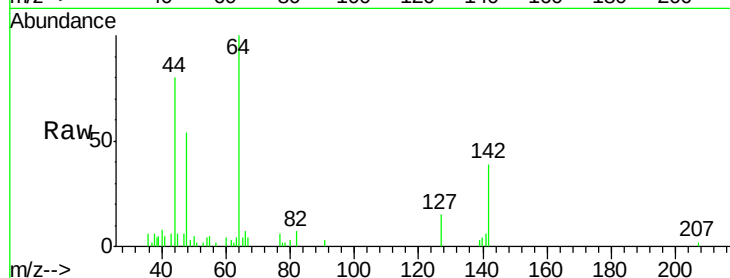
Tot Ion:142 Resp: 2094

Ion Ratio Lower Upper

142 100

127 41.1 36.6 55.0

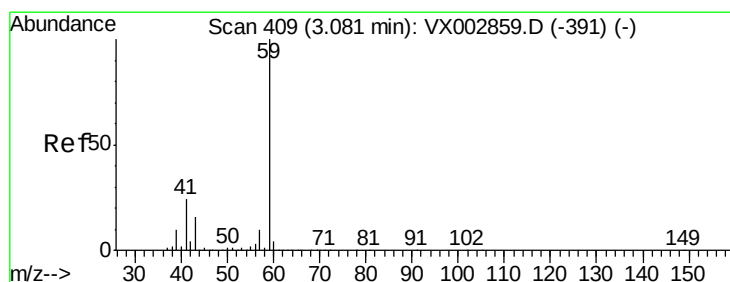
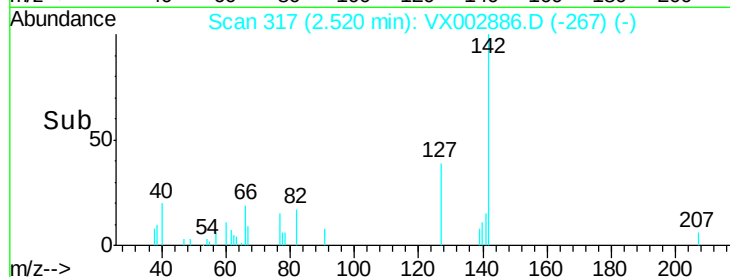
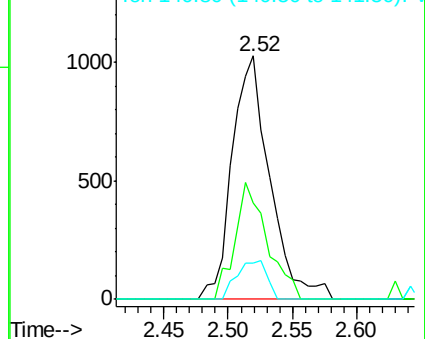
141 12.5 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 3.56 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002886.D

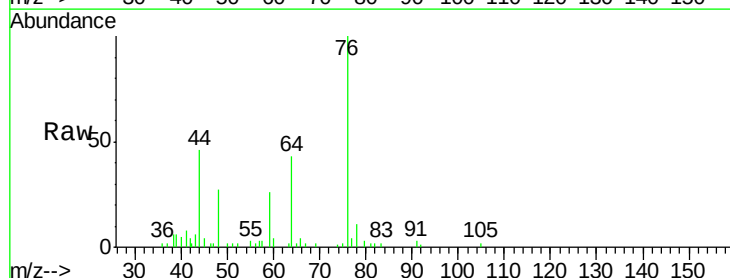
Acq: 26 Jun 2018 03:26

Tgt Ion: 59 Resp: 2450

Ion Ratio Lower Upper

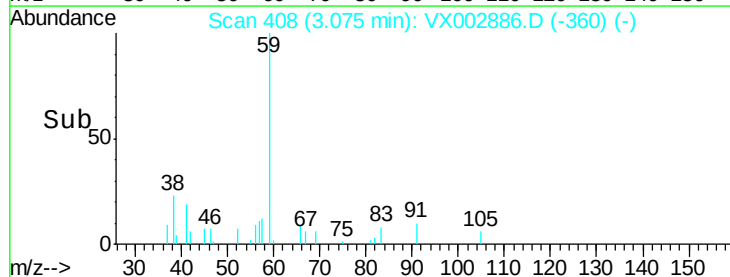
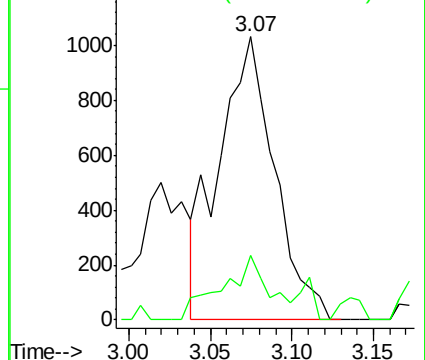
59 100

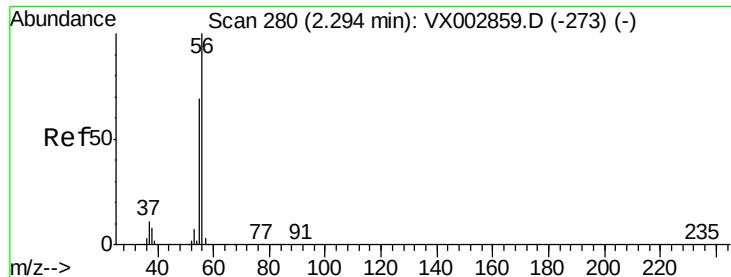
57 19.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.82 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

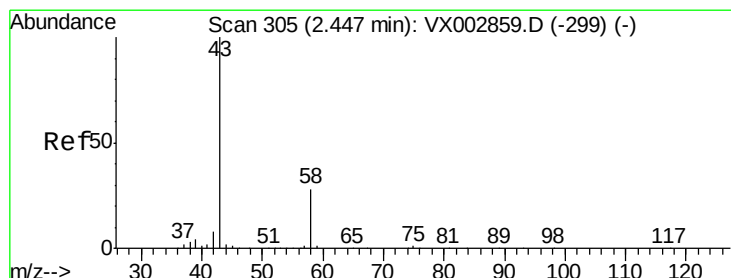
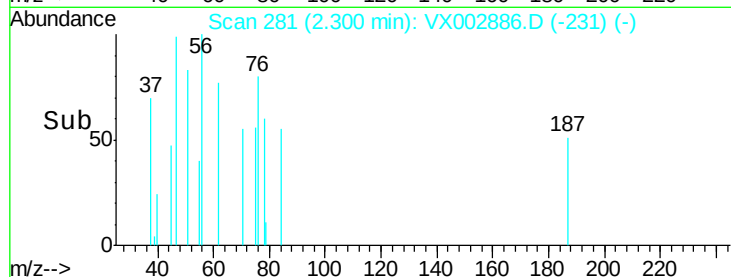
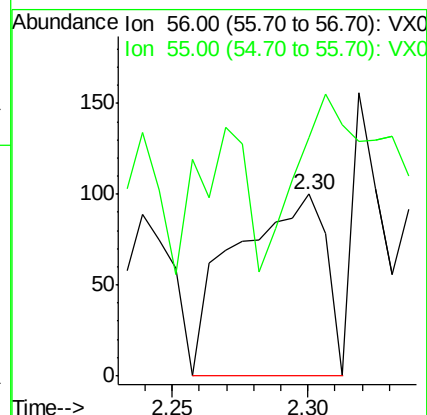
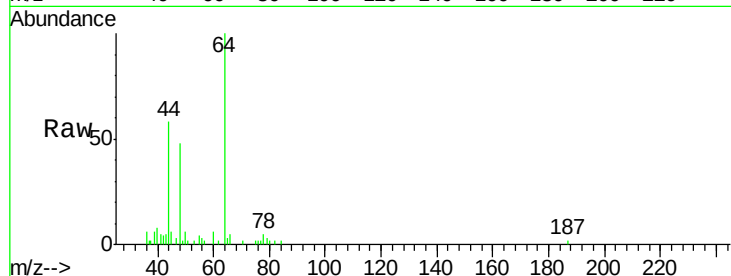
W-15

Tot Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 177.4 57.0 85.4#



#16

Acetone

Concen: 3.26 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002886.D

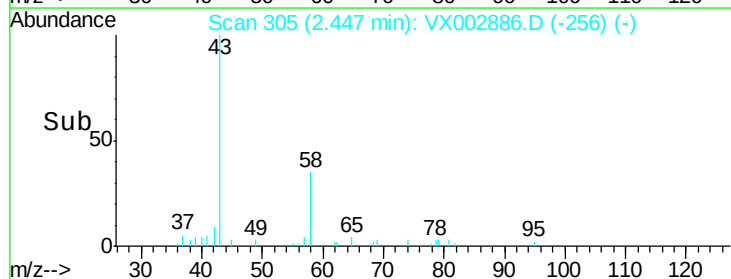
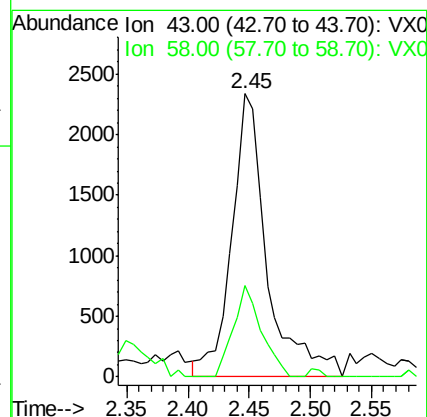
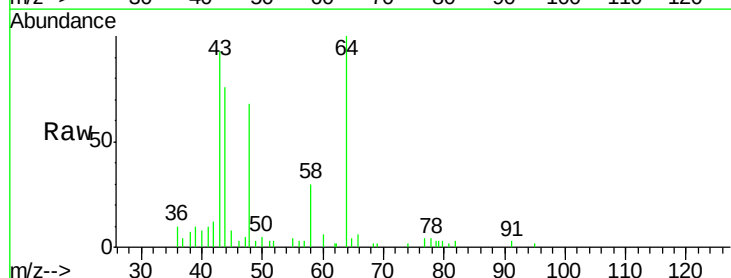
Acq: 26 Jun 2018 03:26

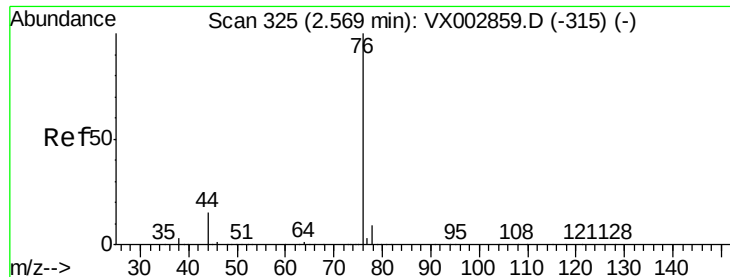
Tgt Ion: 43 Resp: 4661

Ion Ratio Lower Upper

43 100

58 32.5 22.1 33.1





#17

Carbon Disulfide

Concen: 1.07 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampleId :

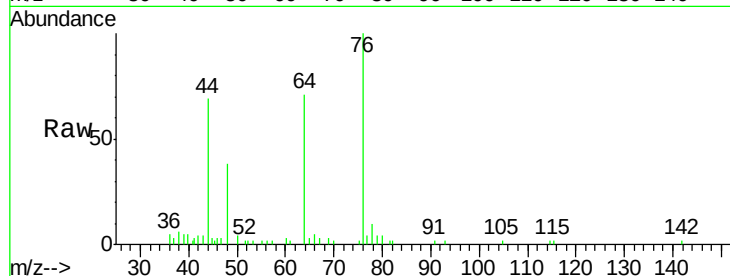
W-15

Tot Ion: 76 Resp: 7043

Ion Ratio Lower Upper

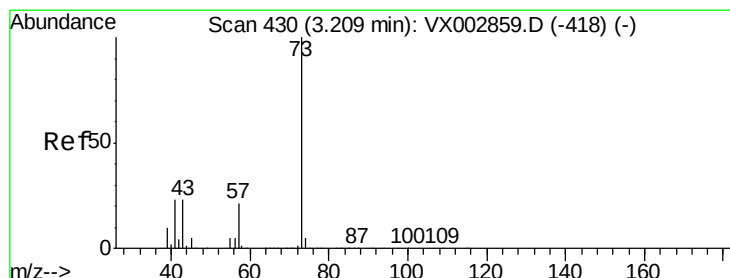
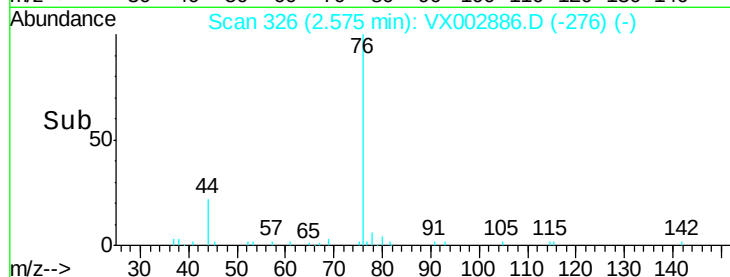
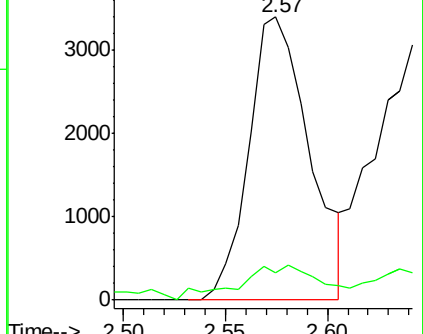
76 100

78 5.3 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: 1.39 ug/l

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX002886.D

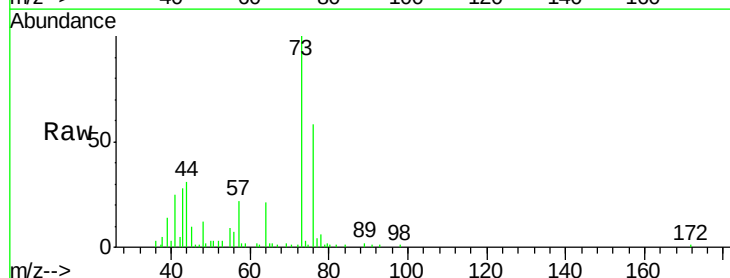
Acq: 26 Jun 2018 03:26

Tgt Ion: 73 Resp: 12338

Ion Ratio Lower Upper

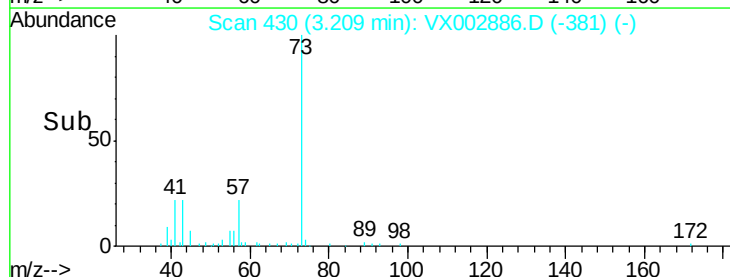
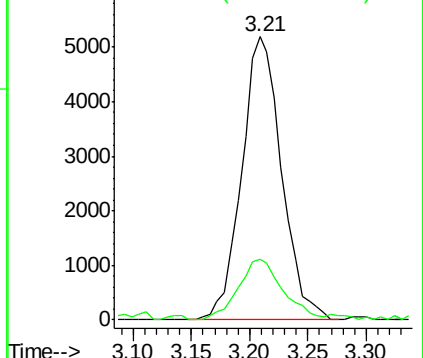
73 100

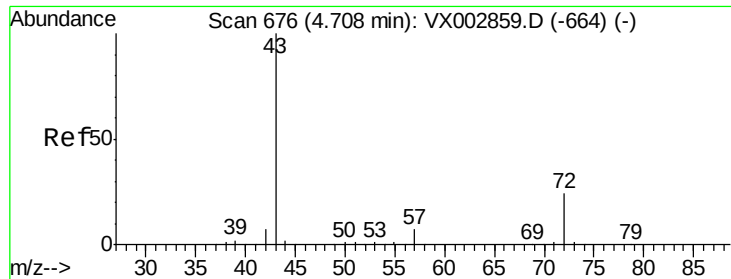
57 21.6 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#25

2-Butanone

Concen: 0.44 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

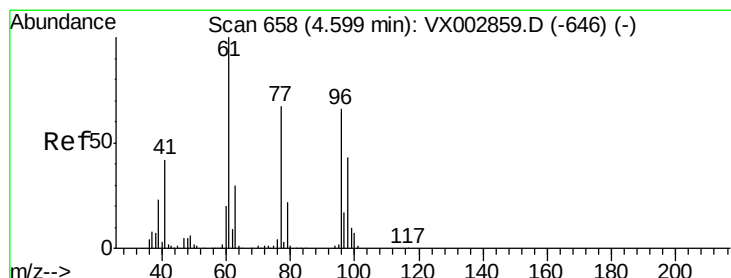
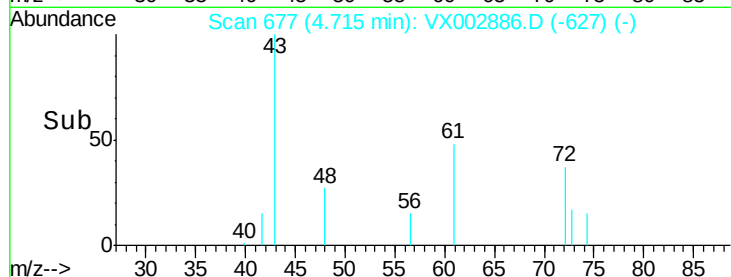
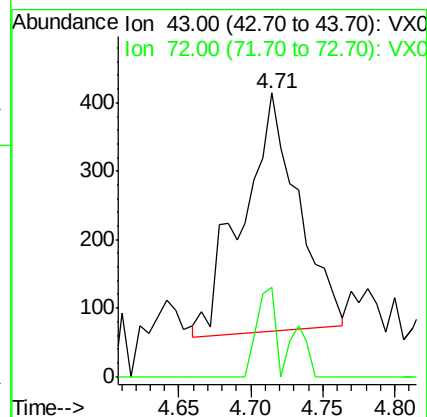
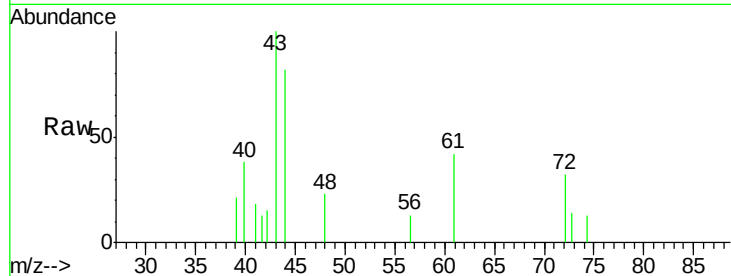
W-15

Tot Ion: 43 Resp: 934

Ion Ratio Lower Upper

43 100

72 38.5 18.5 27.7#



#27

cis-1,2-Dichloroethene

Concen: 0.34 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

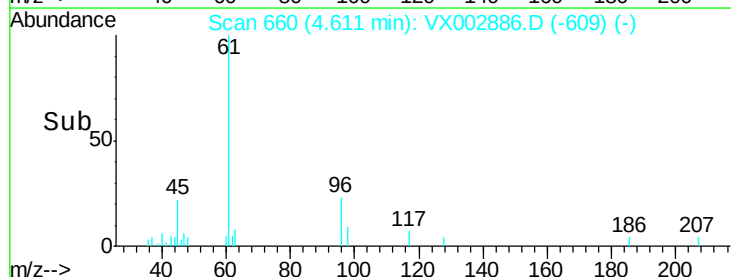
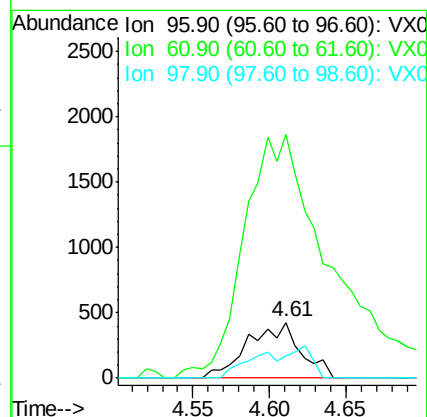
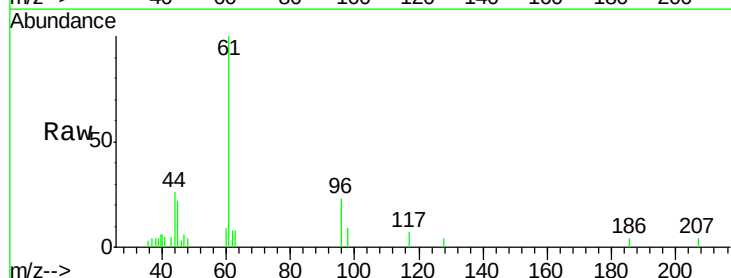
Tgt Ion: 96 Resp: 1016

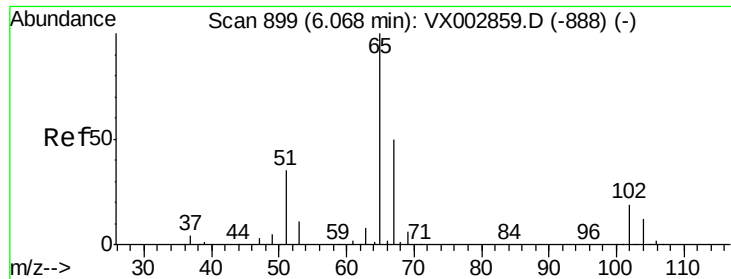
Ion Ratio Lower Upper

96 100

61 720.9 0.0 330.2#

98 26.9 0.0 130.2

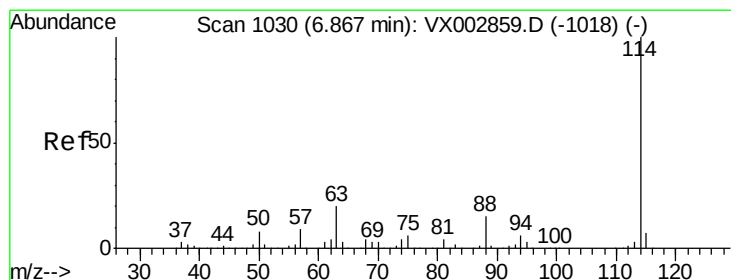
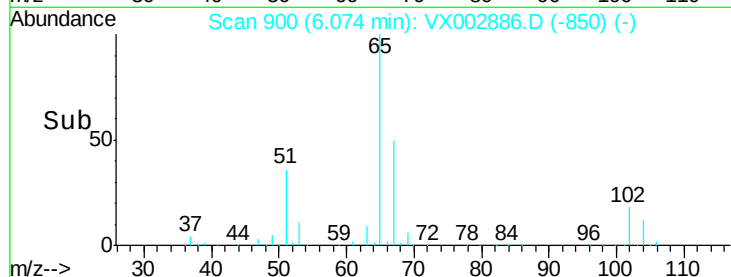
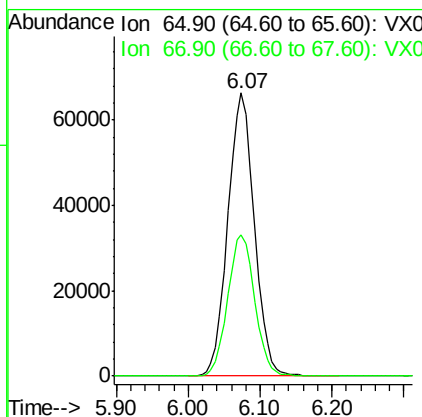
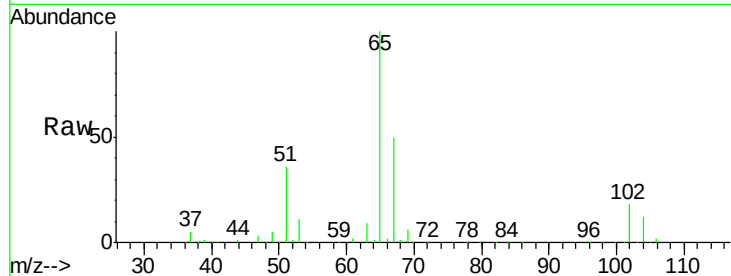




#33
 1,2-Dichloroethane-d4
 Concen: 49.22 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002886.D
 Acq: 26 Jun 2018 03:26

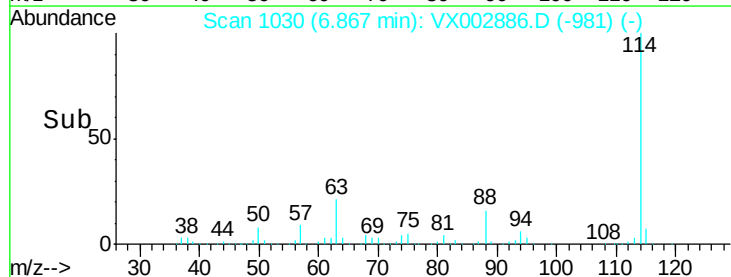
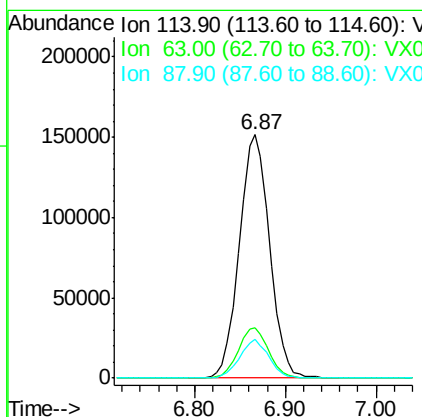
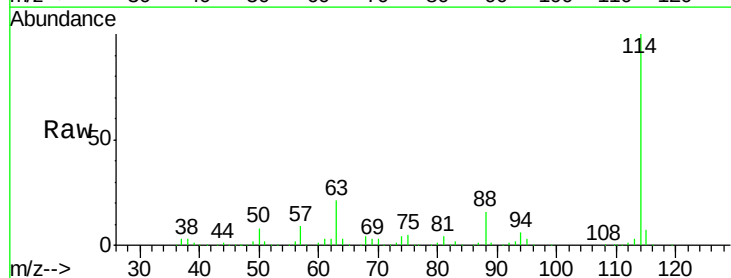
Instrument :
 MSVOA_X
 ClientSampleId :
 W-15

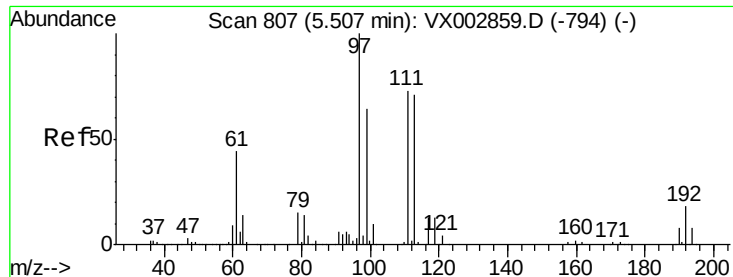
Tot Ion: 65 Resp: 170031
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002886.D
 Acq: 26 Jun 2018 03:26

Tgt Ion: 114 Resp: 350176
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.4
 88 15.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 49.40 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampleId :

W-15

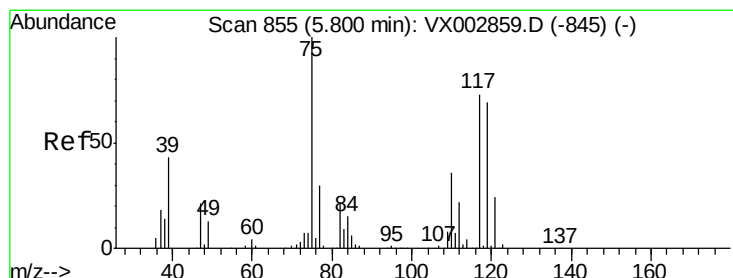
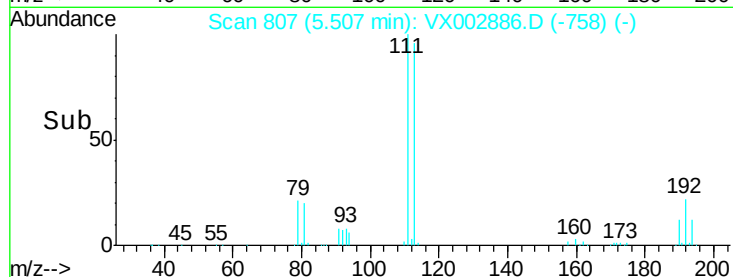
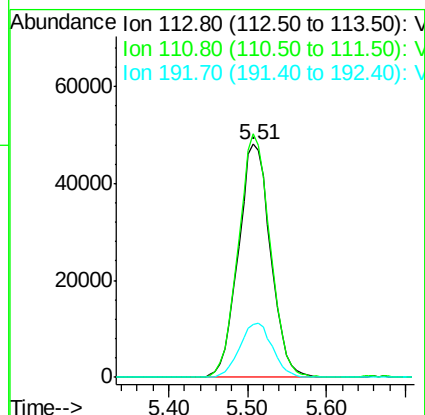
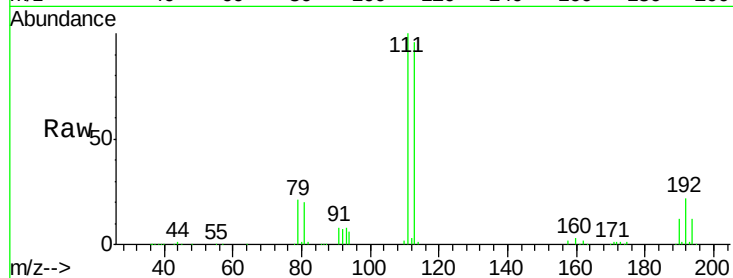
Tot Ion:113 Resp: 137001

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

192 23.6 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.45 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

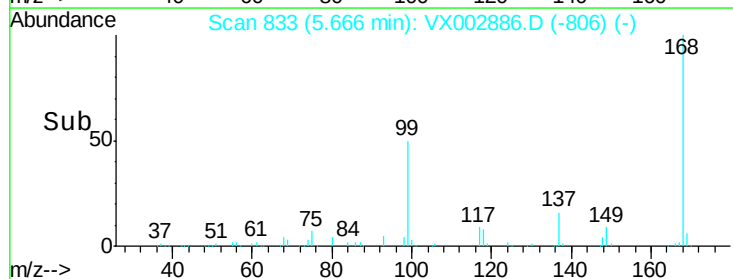
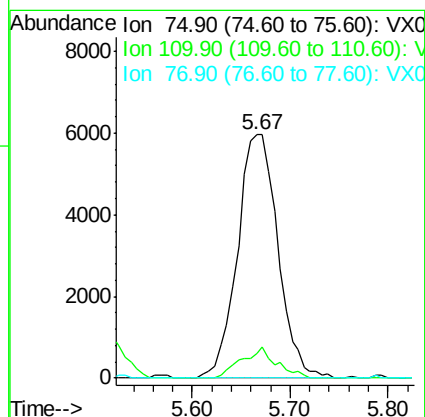
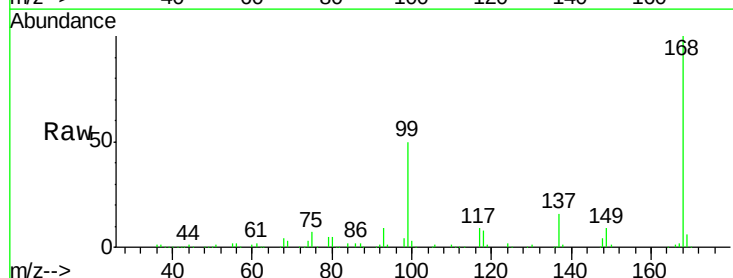
Tgt Ion: 75 Resp: 17088

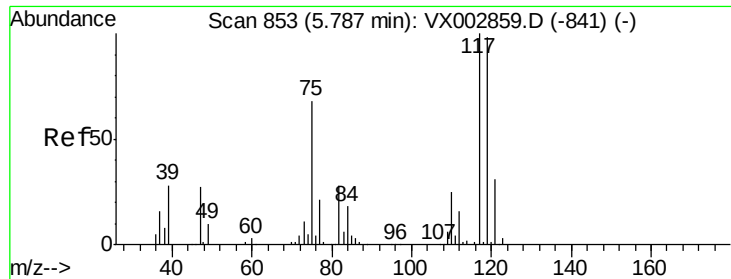
Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.39 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

W-15

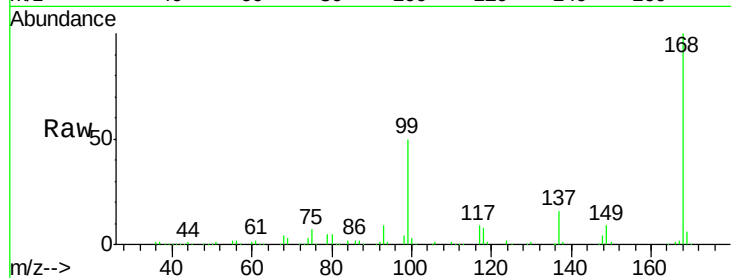
Tot Ion:117 Resp: 22702

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

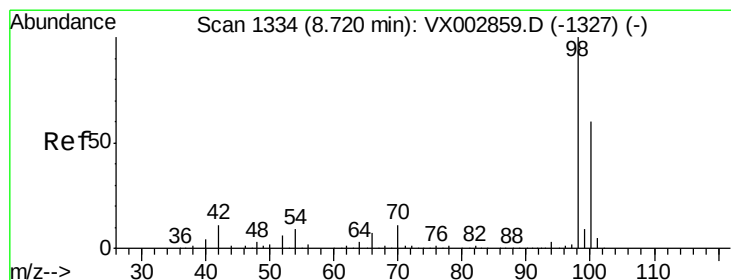
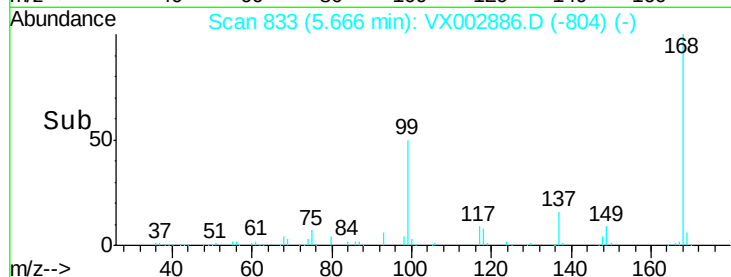
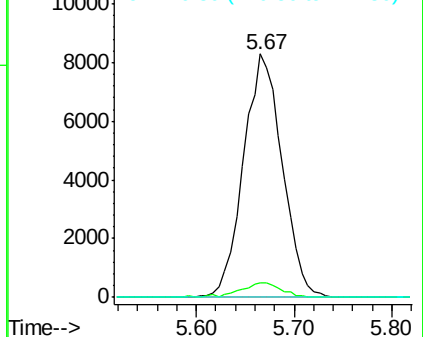
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 48.63 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002886.D

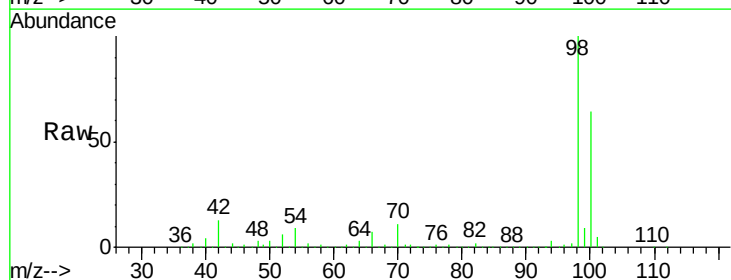
Acq: 26 Jun 2018 03:26

Tgt Ion: 98 Resp: 492428

Ion Ratio Lower Upper

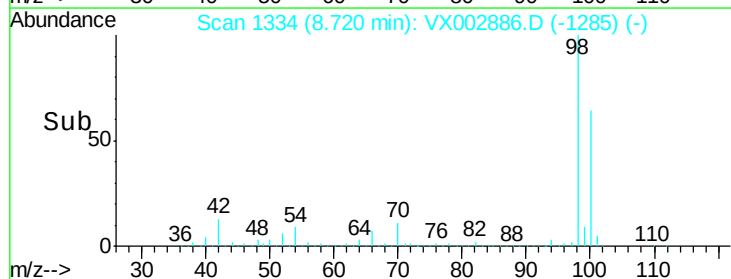
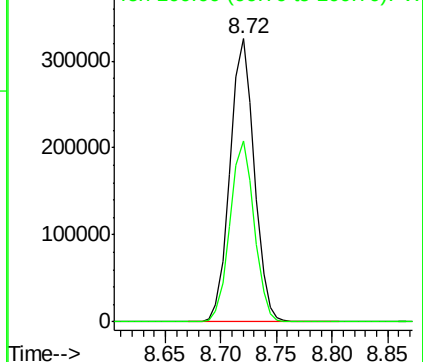
98 100

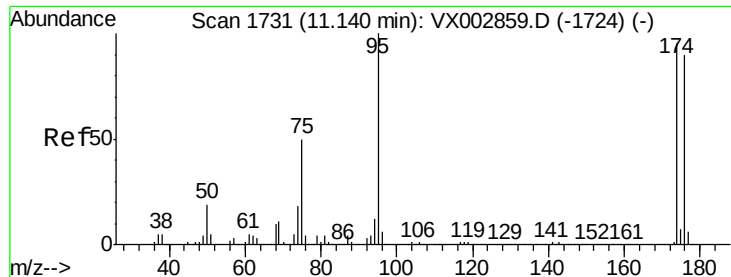
100 63.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

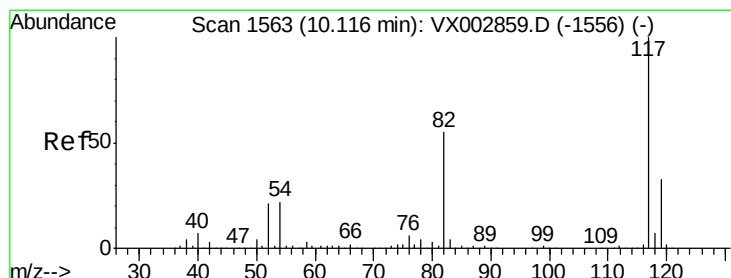
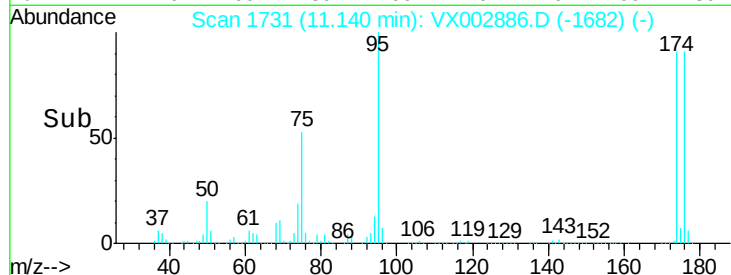
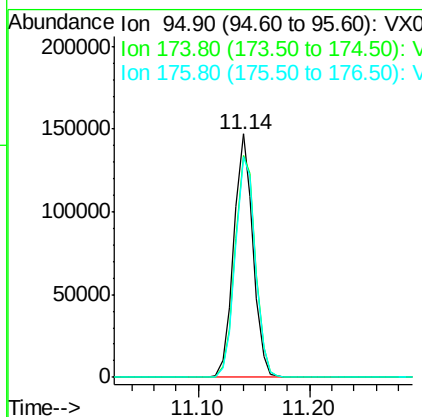
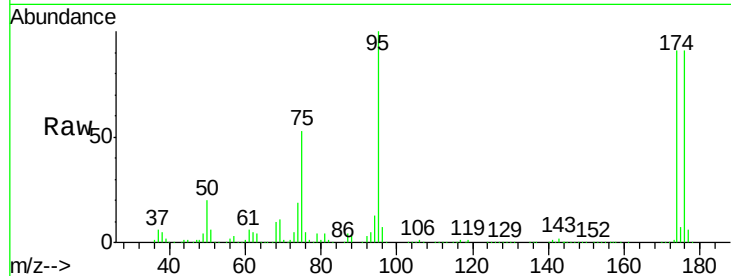




#62
4-Bromofluorobenzene
Concen: 44.80 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002886.D
Acq: 26 Jun 2018 03:26

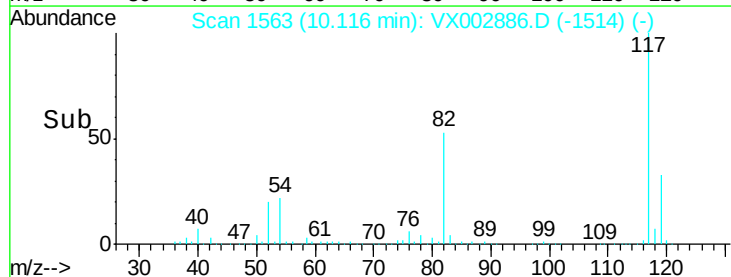
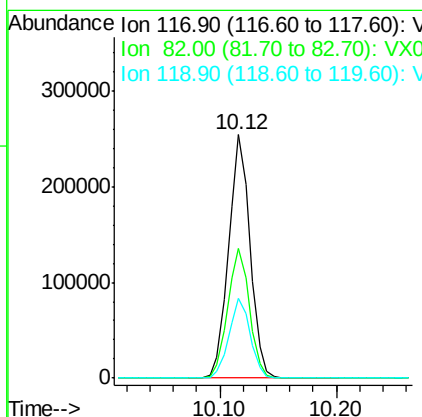
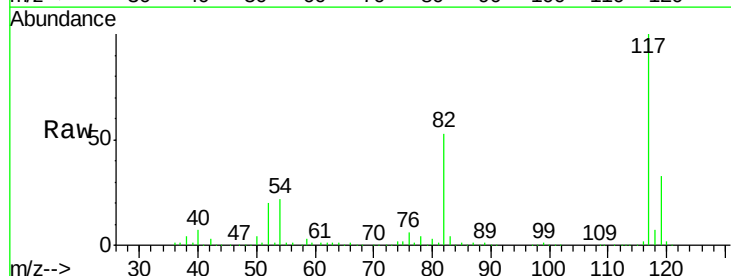
Instrument :
MSVOA_X
ClientSampleId :
W-15

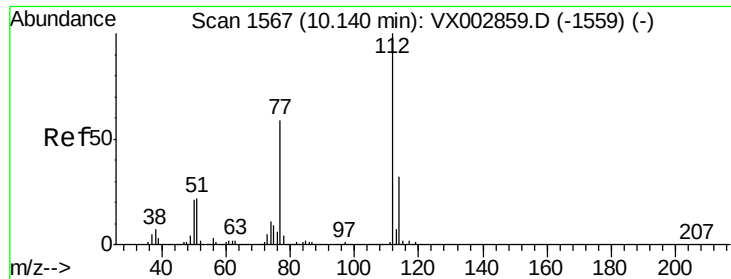
Tot Ion: 95 Resp: 174973
Ion Ratio Lower Upper
95 100
174 97.0 0.0 187.4
176 94.9 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002886.D
Acq: 26 Jun 2018 03:26

Tgt Ion: 117 Resp: 325580
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 32.9 25.8 38.6





#65

Chlorobenzene

Concen: 0.23 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

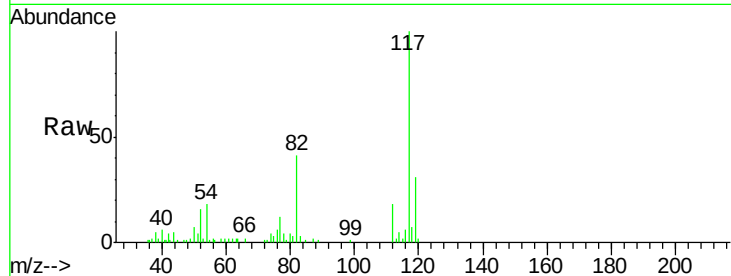
W-15

Tot Ion:112 Resp: 1874

Ion Ratio Lower Upper

112 100

114 30.5 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

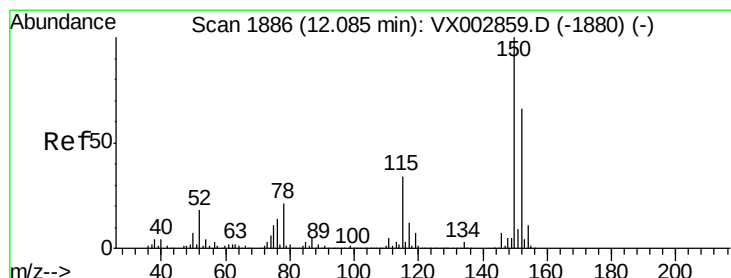
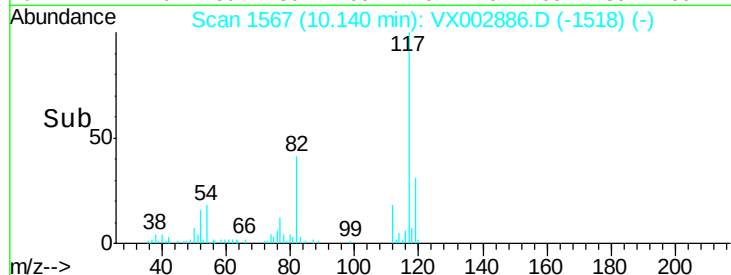
1500

1000

500

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

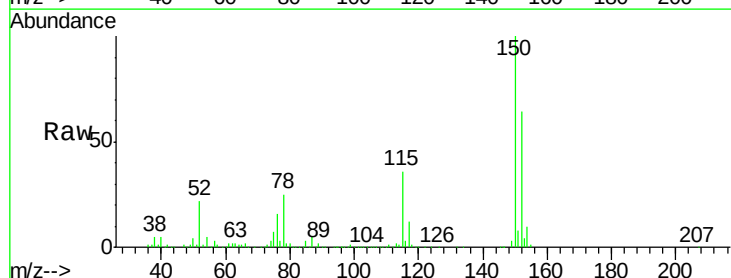
Tgt Ion:152 Resp: 187622

Ion Ratio Lower Upper

152 100

115 54.3 40.1 120.2

150 157.2 0.0 347.2



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

300000

250000

200000

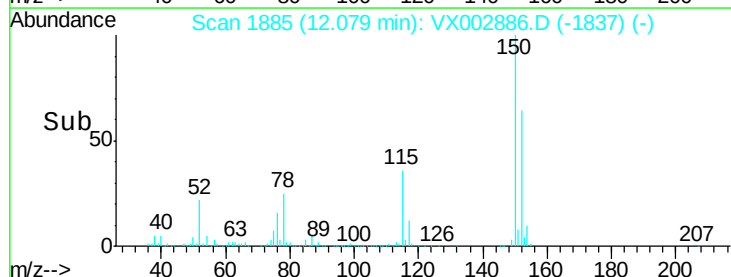
150000

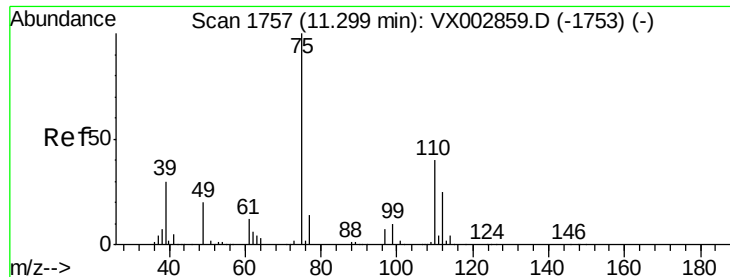
100000

50000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 27.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

Instrument :

MSVOA_X

ClientSampled :

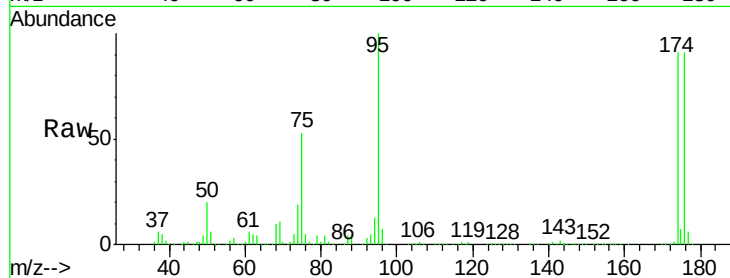
W-15

Tot Ion: 75 Resp: 92883

Ion Ratio Lower Upper

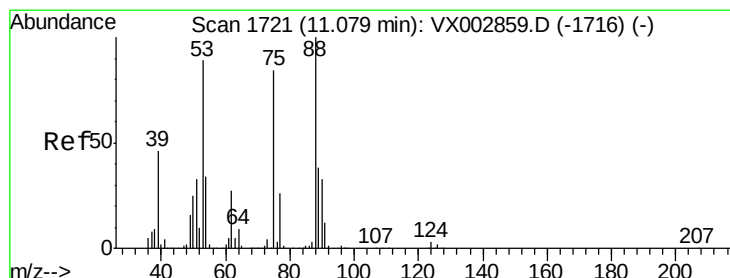
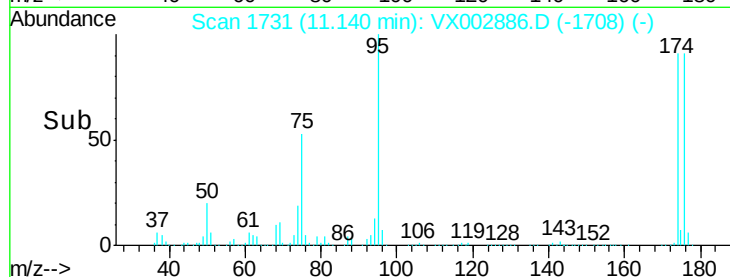
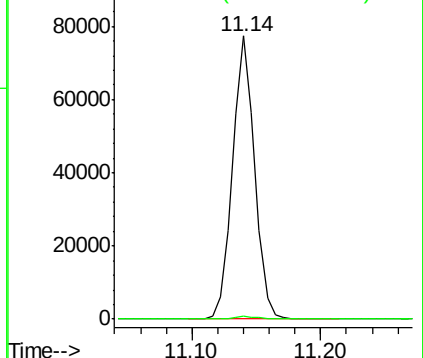
75 100

77 1.1 22.8 68.3#



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: 77.33 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002886.D

Acq: 26 Jun 2018 03:26

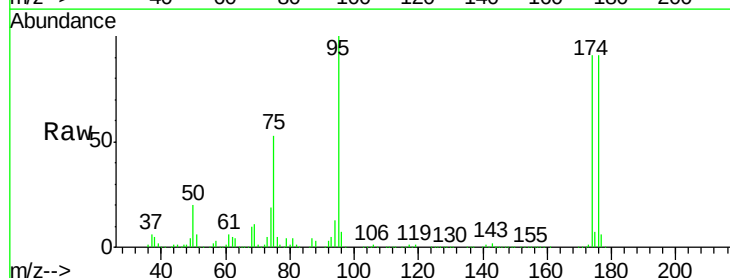
Tgt Ion: 75 Resp: 92883

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

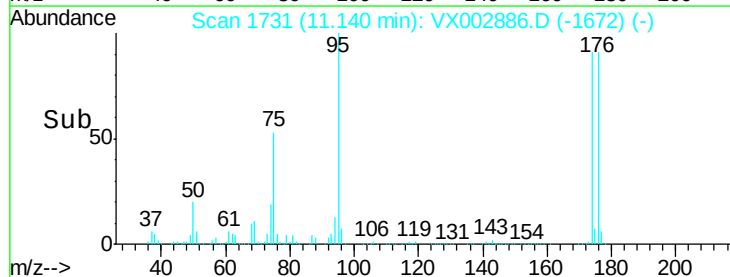
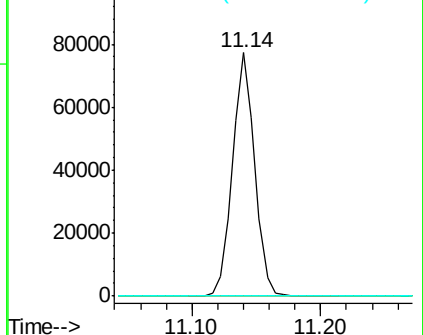
89 0.0 38.2 57.2#

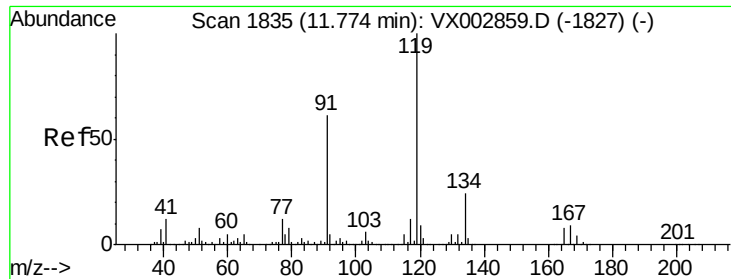


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#83
 tert-Butylbenzene
 Concen: 0.25 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX002886.D
 Acq: 26 Jun 2018 03:26

Instrument :
 MSVOA_X
 ClientSampleId :
 W-15

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.1	30.3	90.9
134	26.2	11.7	35.1

