

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062618\
 Data File : VX002897.D
 Acq On : 26 Jun 2018 15:16
 Operator : JC/MD
 Sample : J3685-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 02:38:06 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	254436	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	359127	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	328957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	183741	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	172407	49.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.04%	
35) Dibromofluoromethane	5.51	113	137078	48.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.40%	
50) Toluene-d8	8.72	98	501094	48.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.50%	
62) 4-Bromofluorobenzene	11.14	95	173801	43.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.78%	

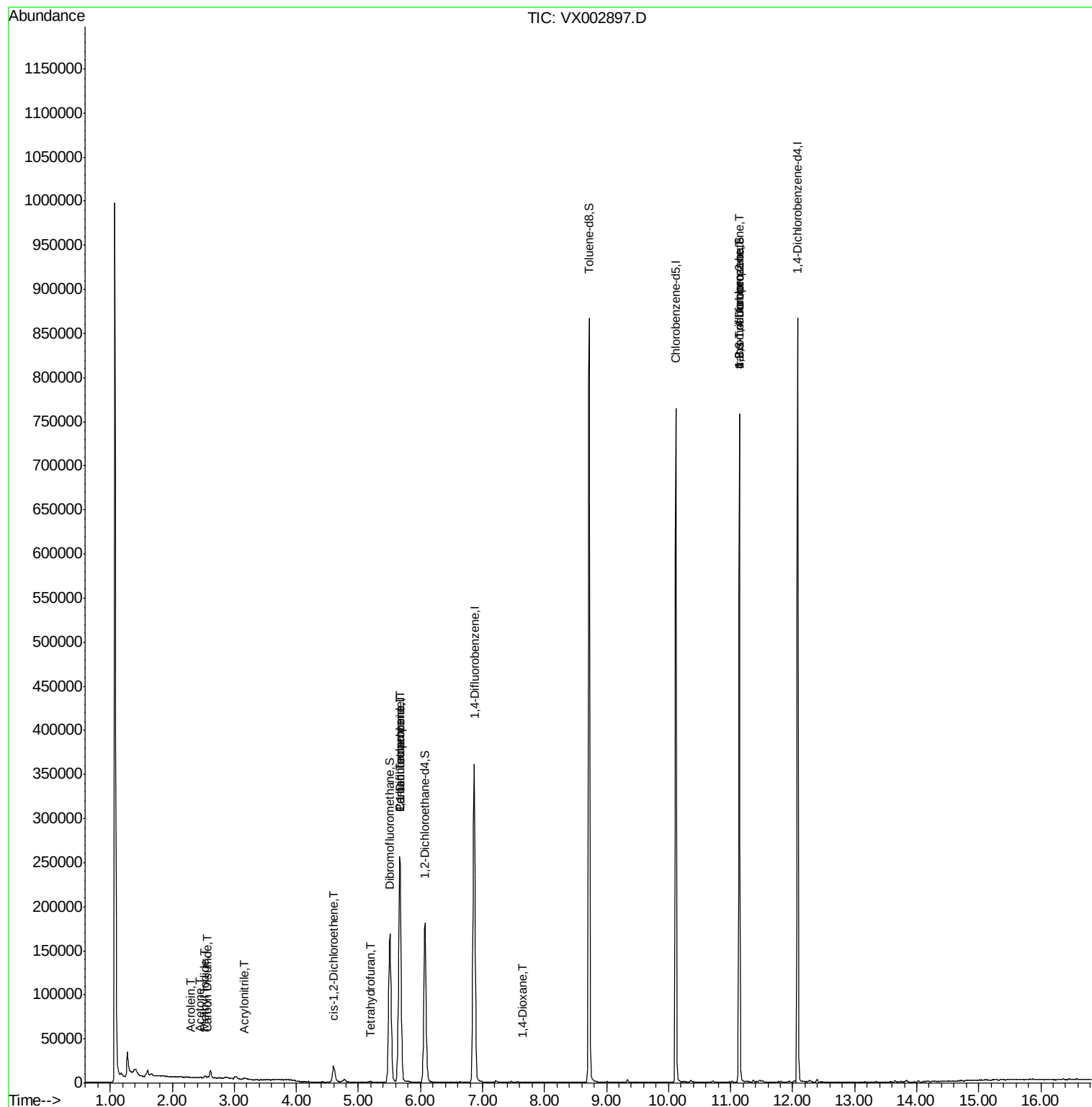
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	149	Below Cal	#	43
3) Chloromethane	1.32	50	664	Below Cal		97
5) Bromomethane	1.65	94	1567	Below Cal		92
6) Chloroethane	1.68	64	530	Below Cal	#	43
10) Methyl Iodide	2.52	142	2594	7.02	ug/l	94
13) Acrolein	2.29	56	226	4.80	ug/l	# 52
15) Acrylonitrile	3.15	53	429	0.29	ug/l	# 56
16) Acetone	2.45	43	1046	0.72	ug/l	# 87
17) Carbon Disulfide	2.57	76	1851	0.28	ug/l	# 86
27) cis-1,2-Dichloroethene	4.60	96	9993	3.26	ug/l	# 84
29) Tetrahydrofuran	5.18	42	923	0.67	ug/l	# 69
36) 1,1-Dichloropropene	5.67	75	17010	4.32	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	23738	5.49	ug/l	# 15
49) 1,4-Dioxane	7.64	88	23	0.32	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	92628	27.83	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92628	78.68	ug/l	# 7

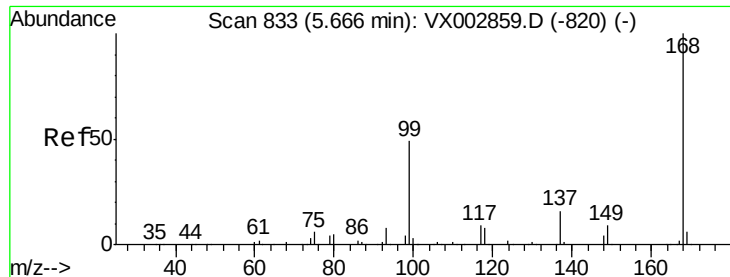
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002897.D

Acq: 26 Jun 2018 15:16

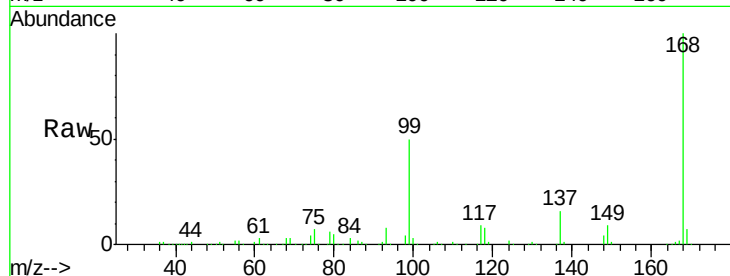
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 254436

Ion Ratio Lower Upper

168 100

99 50.0 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

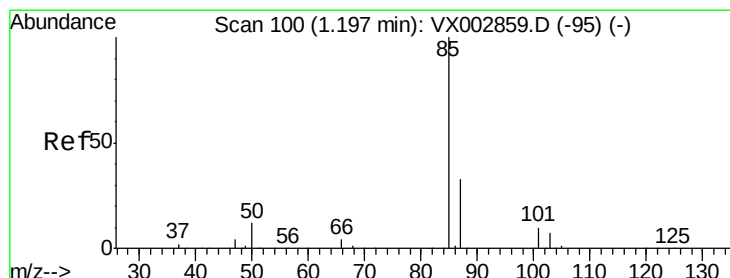
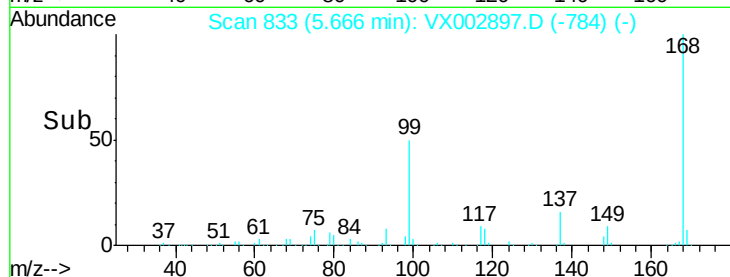
60000

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: VX002897.D

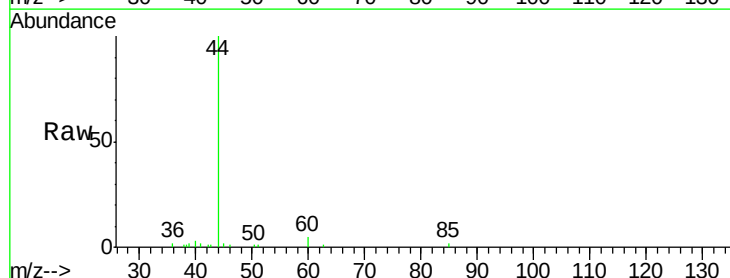
Acq: 26 Jun 2018 15:16

Tgt Ion: 85 Resp: 149

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

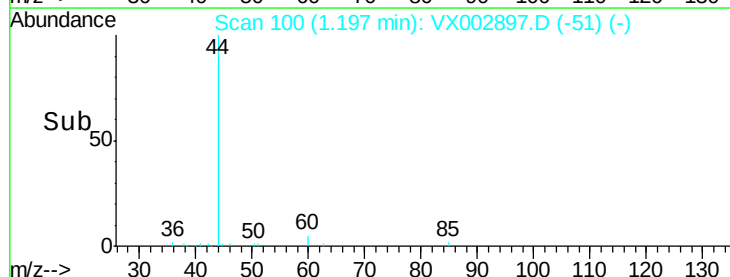
1.20

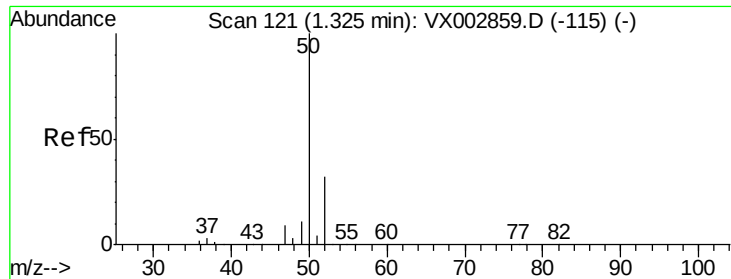
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

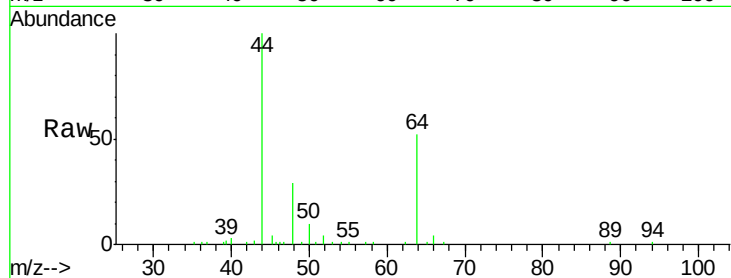
ClientSampleId :

Tot Ion: 50 Resp: 664

Ion Ratio Lower Upper

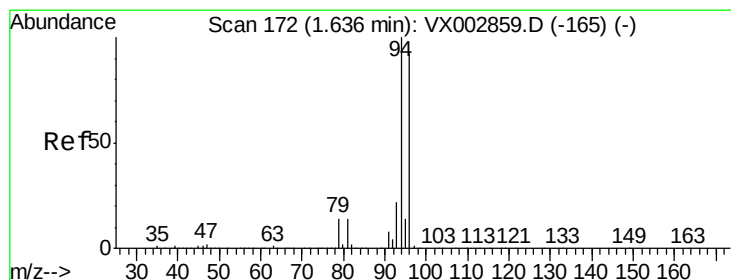
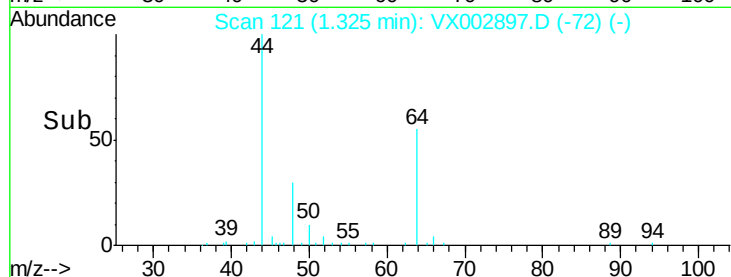
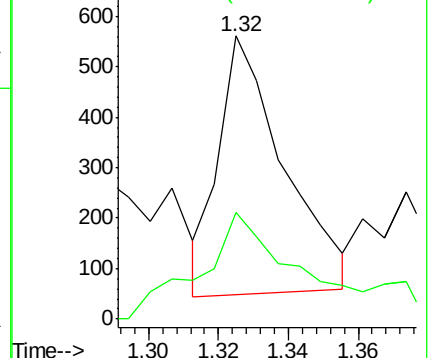
50 100

52 33.6 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002897.D

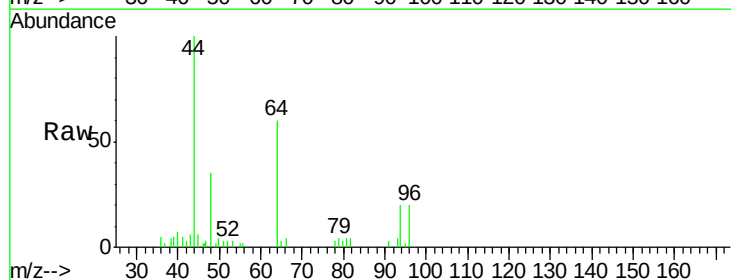
Acq: 26 Jun 2018 15:16

Tgt Ion: 94 Resp: 1567

Ion Ratio Lower Upper

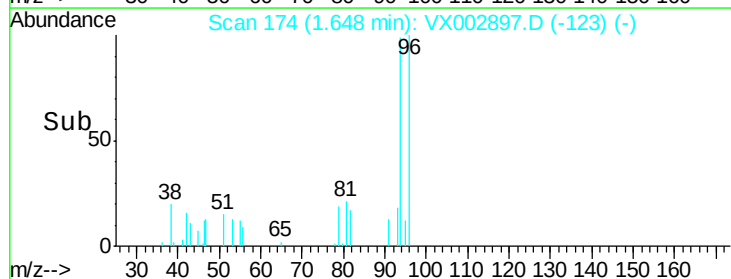
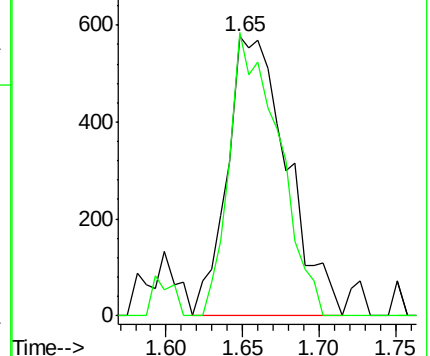
94 100

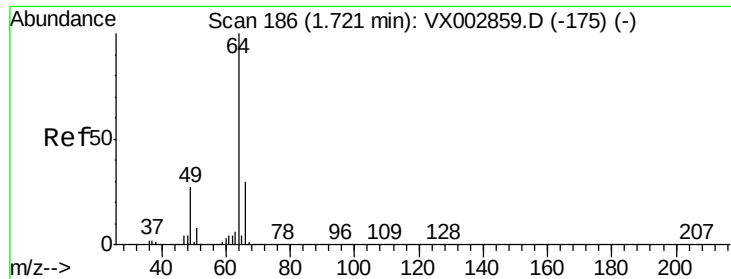
96 101.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 179

Delta R.T. -0.04 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

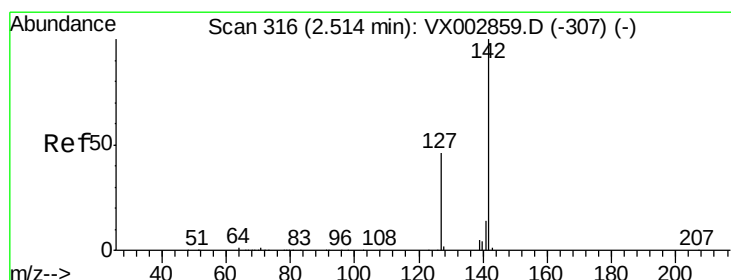
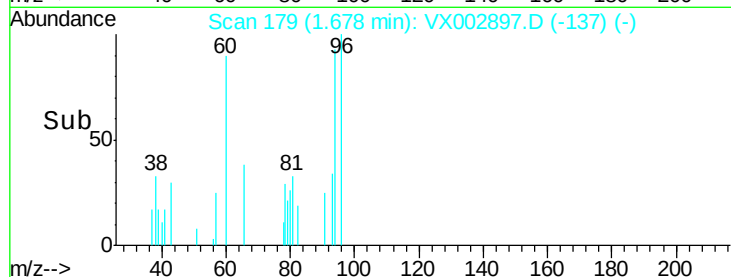
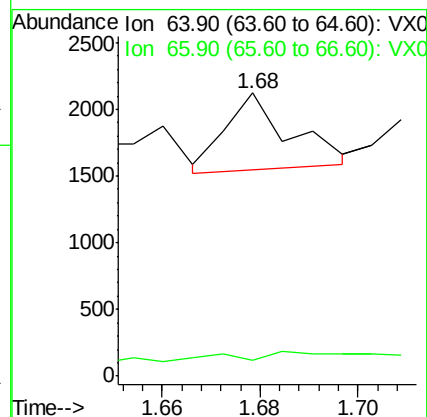
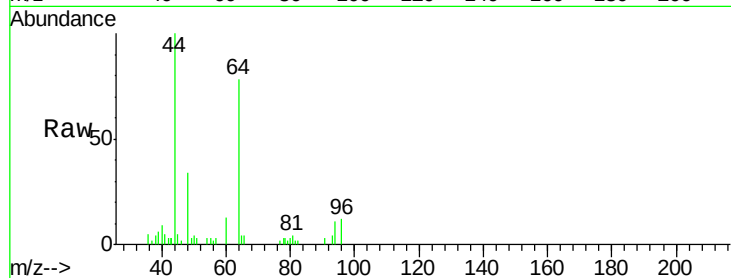
ClientSampleId :

Tot Ion: 64 Resp: 530

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#10

Methyl Iodide

Concen: 7.02 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

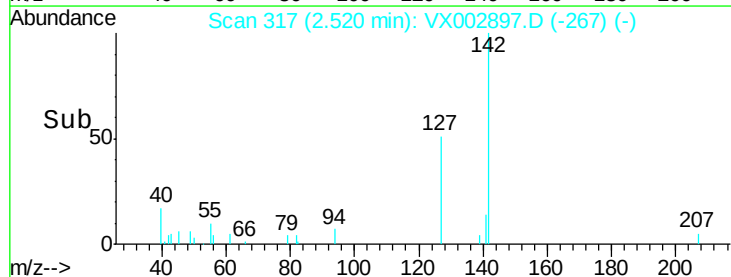
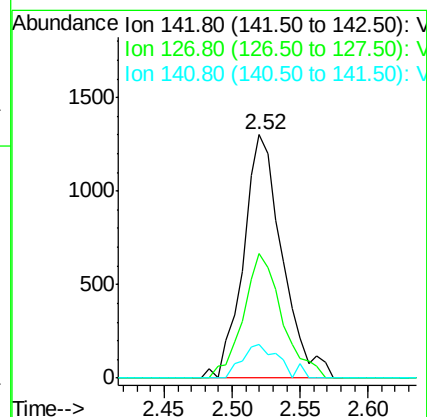
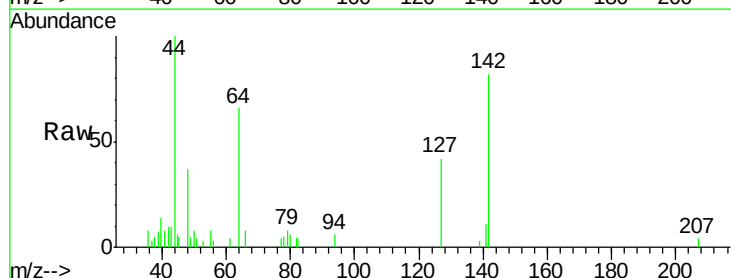
Tgt Ion: 142 Resp: 2594

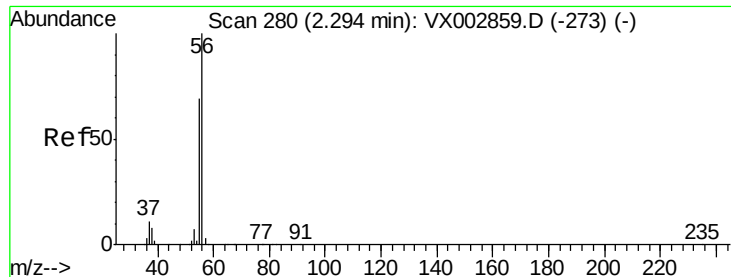
Ion Ratio Lower Upper

142 100

127 51.0 36.6 55.0

141 13.4 11.3 16.9





#13

Acrolein

Concen: 4.80 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

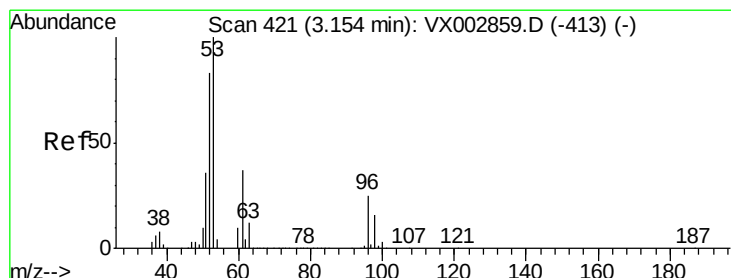
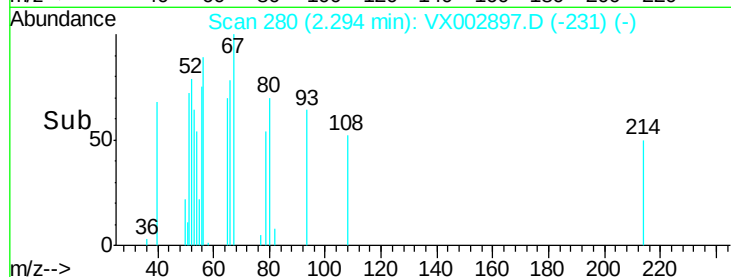
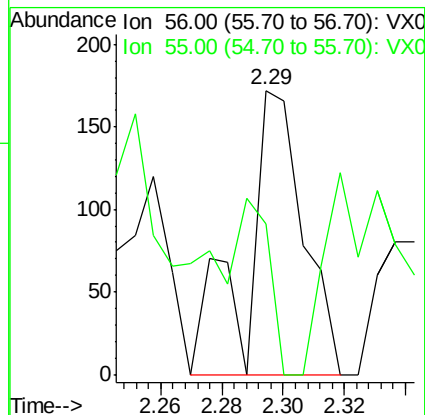
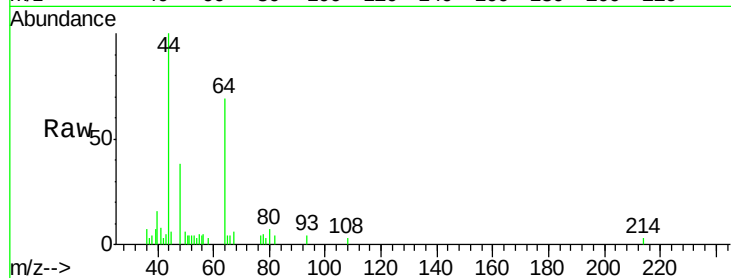
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 226

Ion Ratio Lower Upper

56 100

55 31.9 57.0 85.4#



#15

Acrylonitrile

Concen: 0.29 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

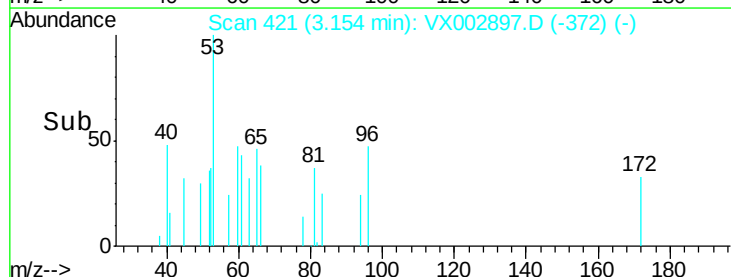
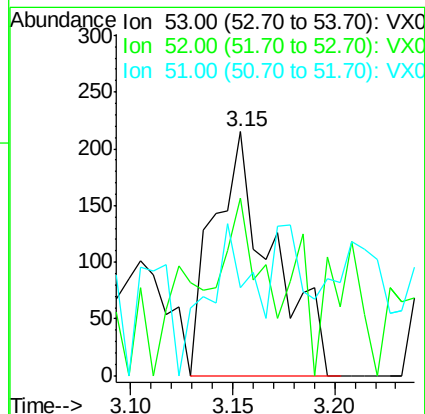
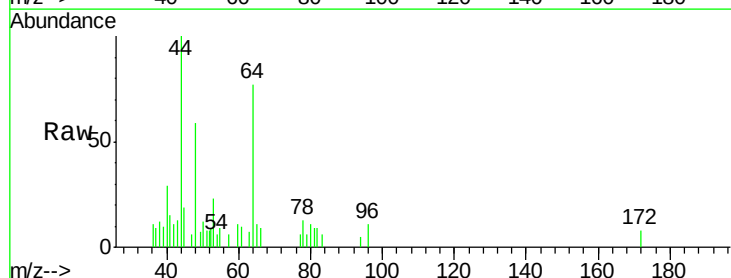
Tgt Ion: 53 Resp: 429

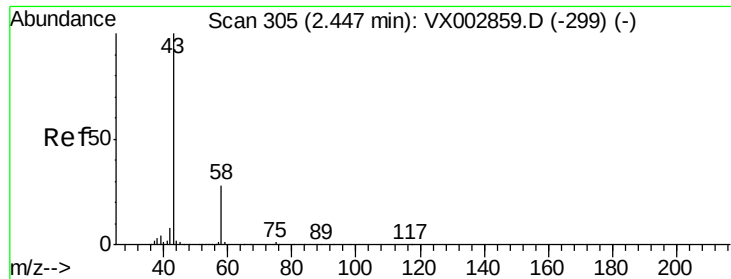
Ion Ratio Lower Upper

53 100

52 31.5 66.7 100.1#

51 46.6 29.9 44.9#





#16

Acetone

Concen: 0.72 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

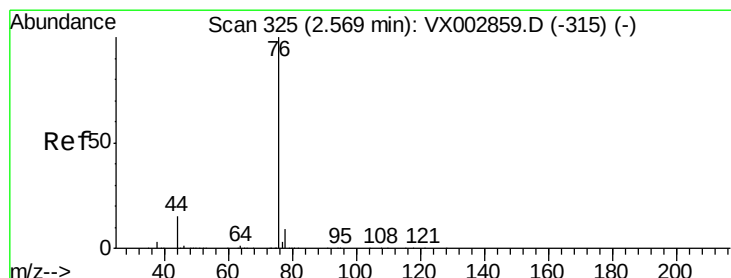
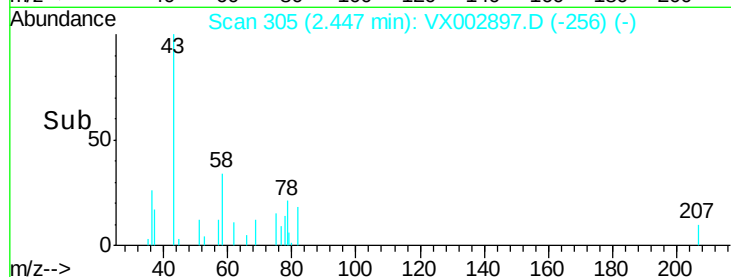
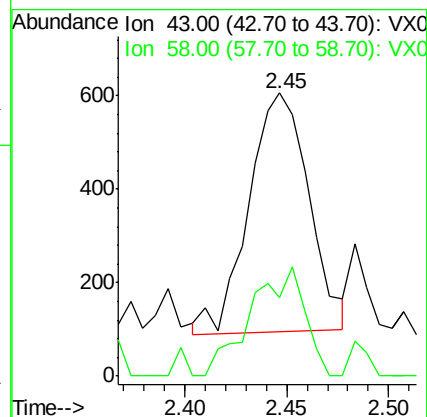
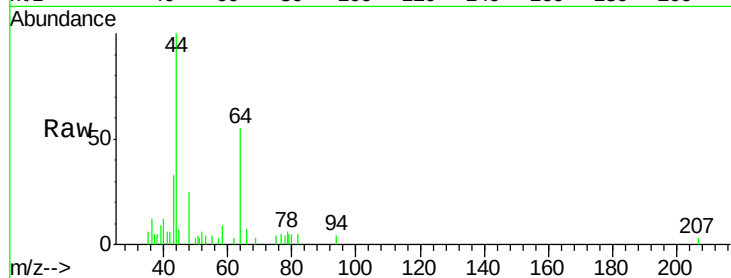
ClientSampleId :

Tot Ion: 43 Resp: 1046

Ion Ratio Lower Upper

43 100

58 34.3 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002897.D

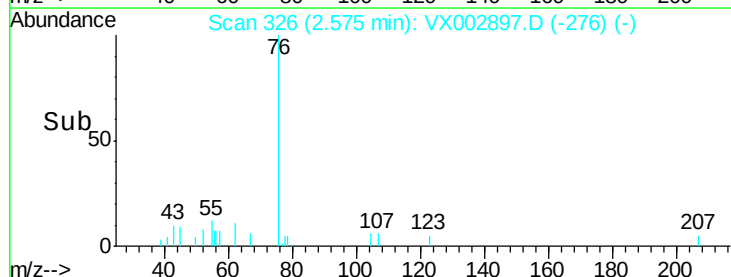
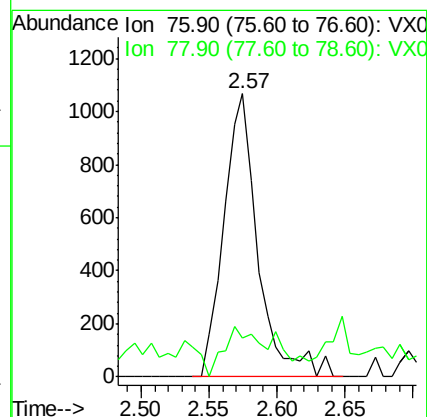
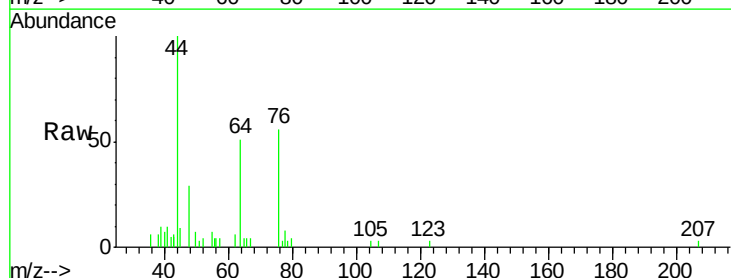
Acq: 26 Jun 2018 15:16

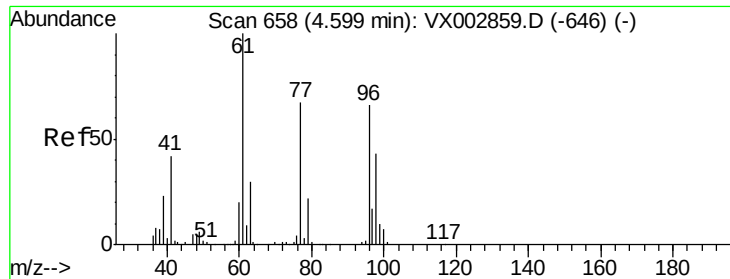
Tgt Ion: 76 Resp: 1851

Ion Ratio Lower Upper

76 100

78 3.5 6.9 10.3#





#27

cis-1,2-Dichloroethene

Concen: 3.26 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

ClientSampled :

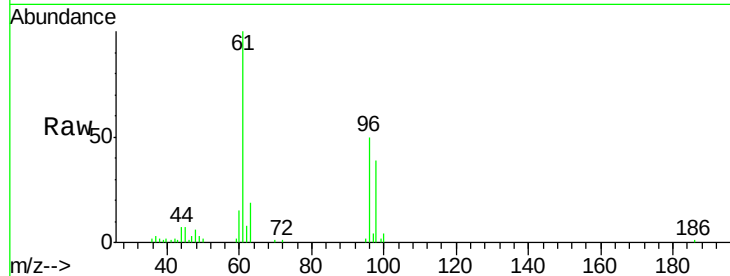
Tot Ion: 96 Resp: 9993

Ion Ratio Lower Upper

96 100

61 193.3 0.0 330.2

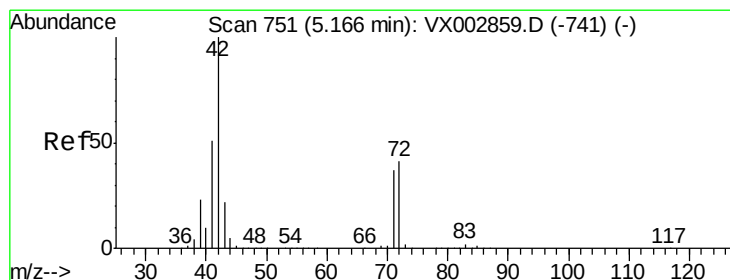
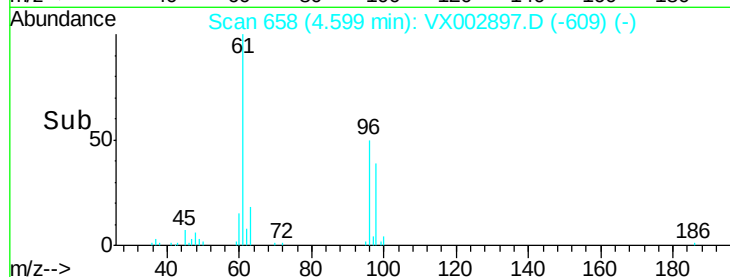
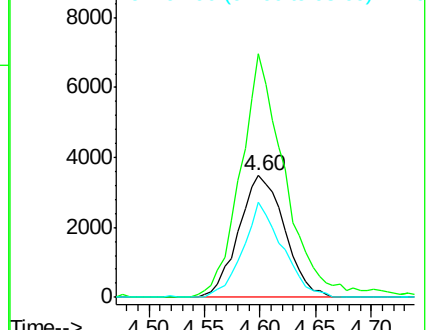
98 66.6 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.67 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

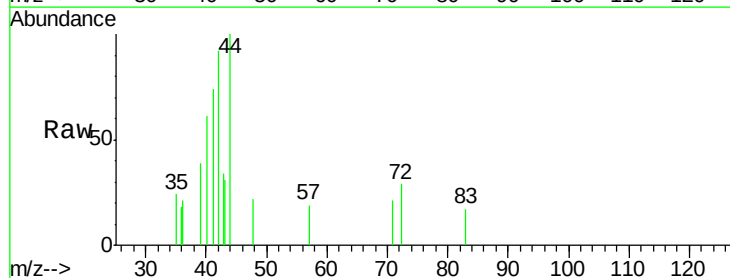
Tgt Ion: 42 Resp: 923

Ion Ratio Lower Upper

42 100

72 22.3 32.0 48.0#

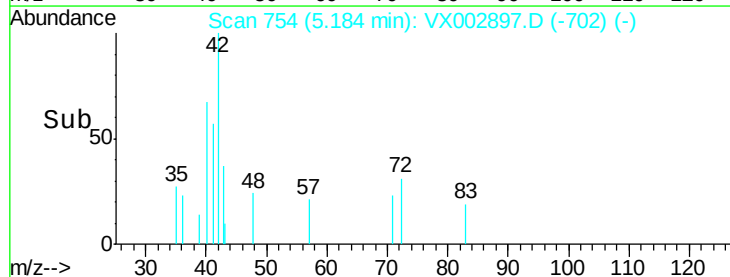
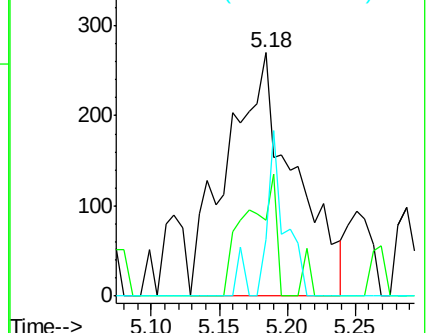
71 17.8 30.1 45.1#

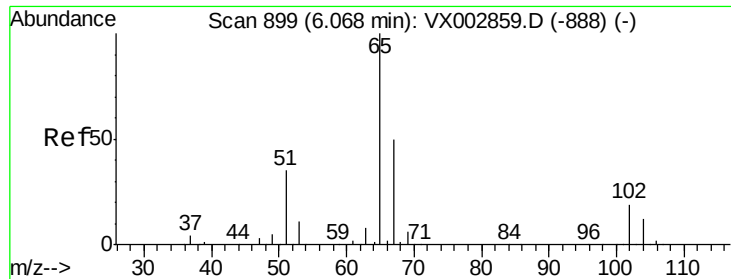


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

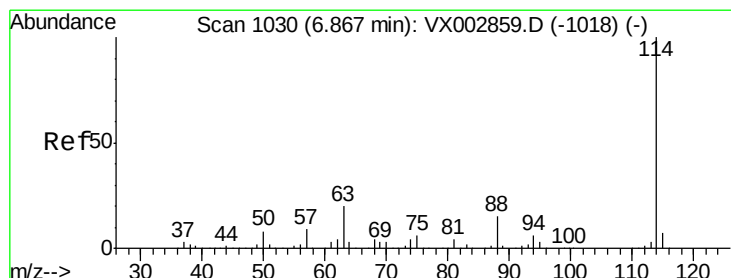
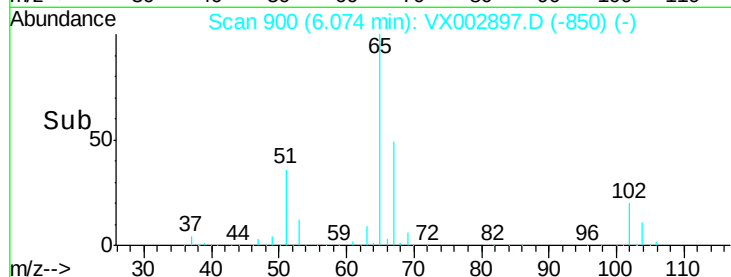
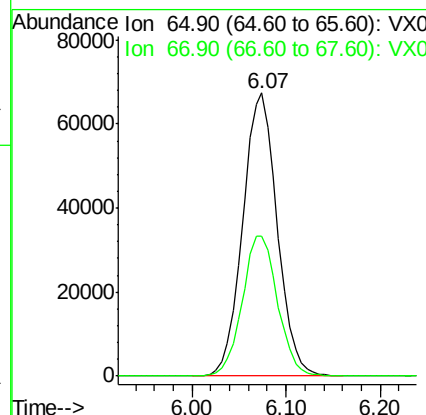
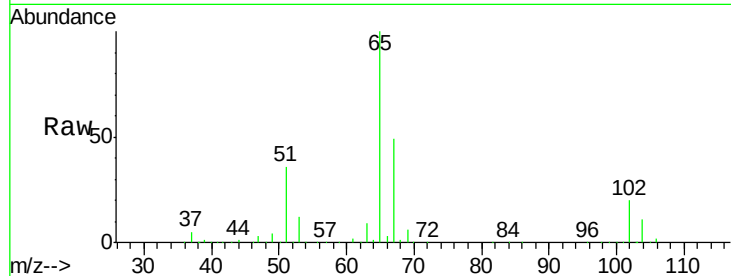




#33
 1,2-Dichloroethane-d4
 Concen: 49.02 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002897.D
 Acq: 26 Jun 2018 15:16

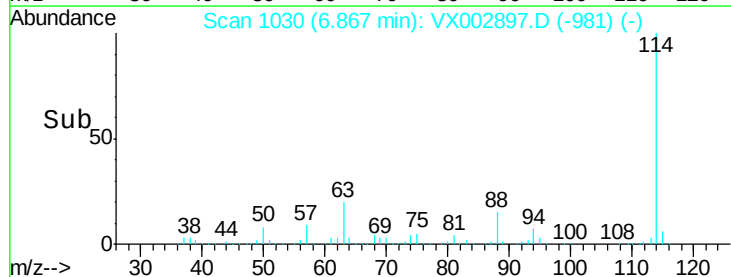
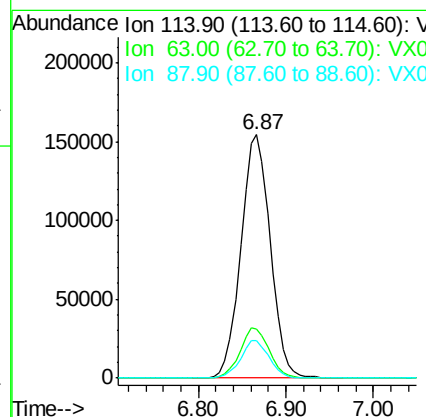
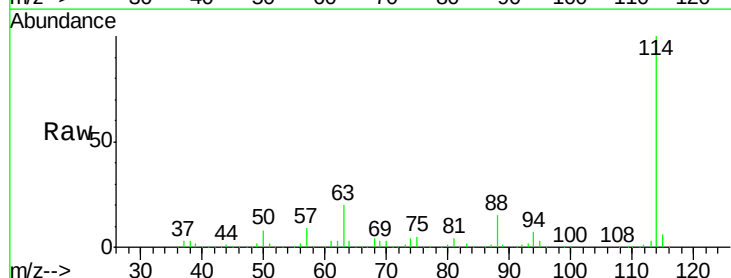
Instrument :
 MSVOA_X
 ClientSampleId :

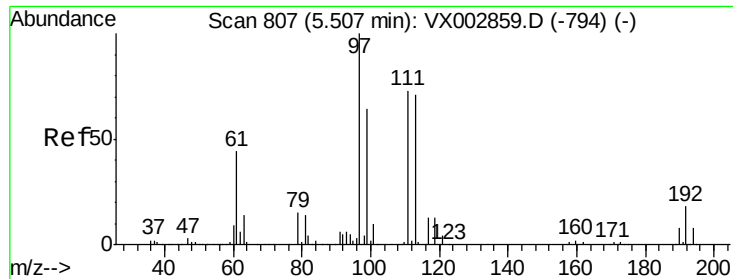
Tot Ion: 65 Resp: 172407
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002897.D
 Acq: 26 Jun 2018 15:16

Tgt Ion: 114 Resp: 359127
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.20 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

ClientSampleId :

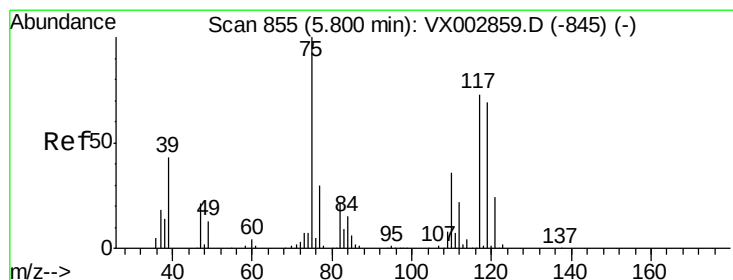
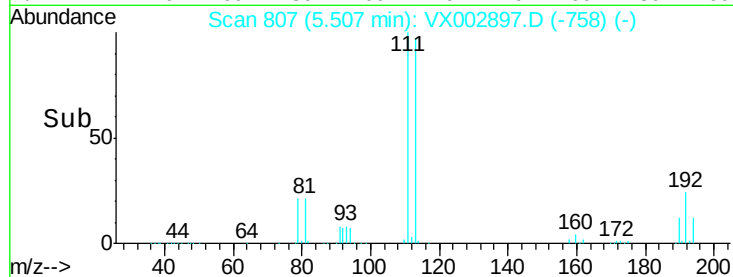
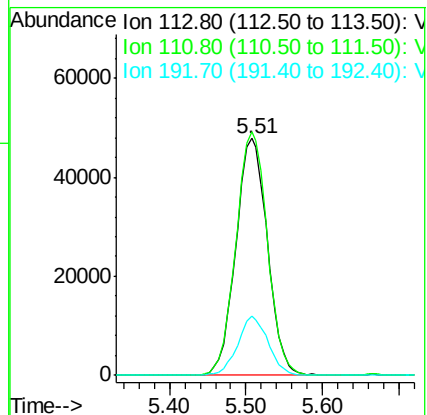
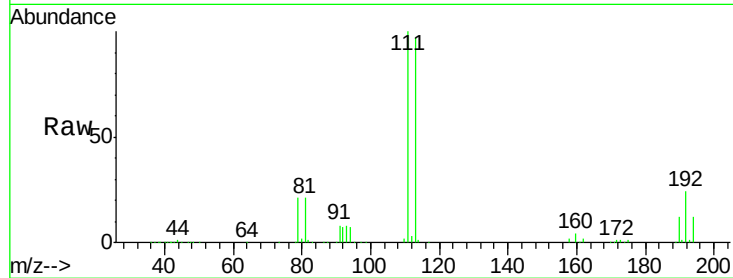
Tot Ion:113 Resp: 137078

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

192 24.2 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.32 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

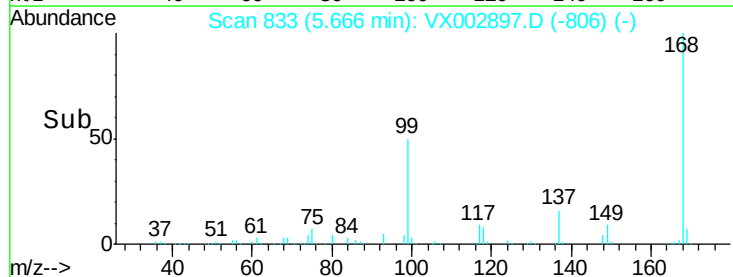
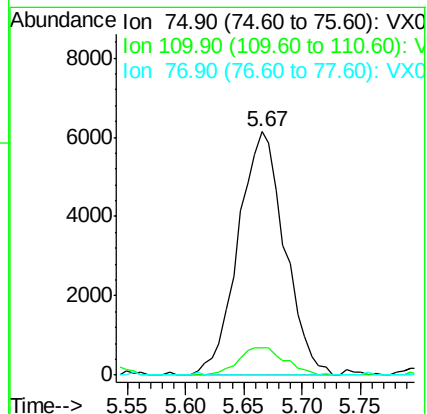
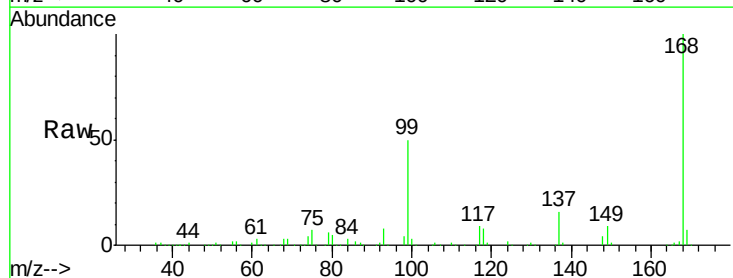
Tgt Ion: 75 Resp: 17010

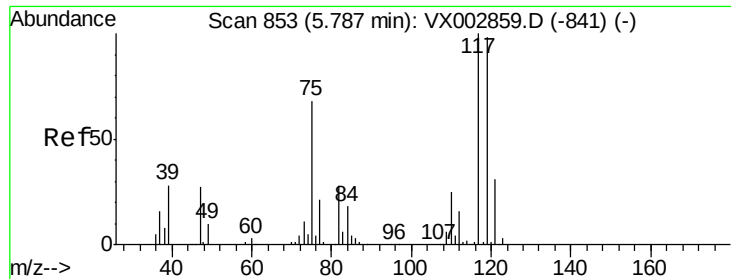
Ion Ratio Lower Upper

75 100

110 11.3 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.49 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

ClientSampled :

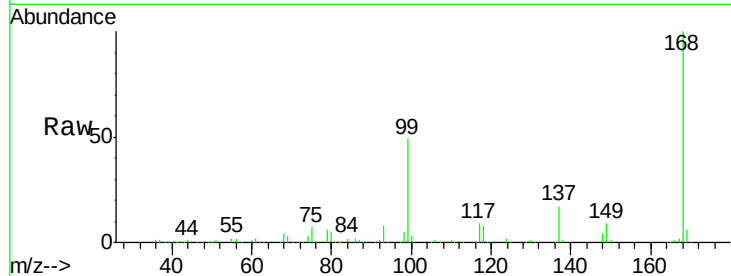
Tot Ion:117 Resp: 23738

Ion Ratio Lower Upper

117 100

119 4.5 77.4 116.0#

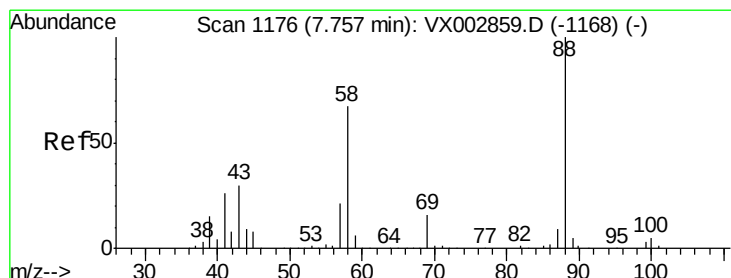
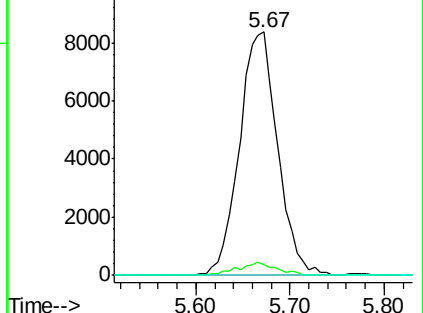
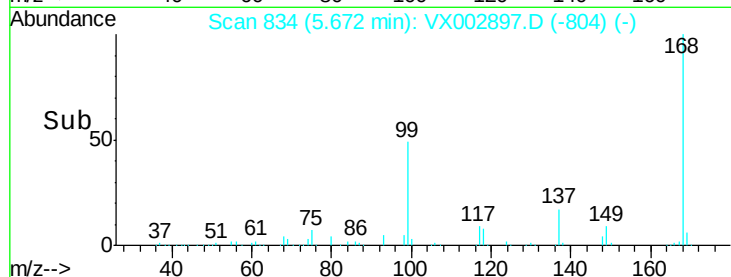
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.32 ug/l

RT: 7.64 min Scan# 1157

Delta R.T. -0.12 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

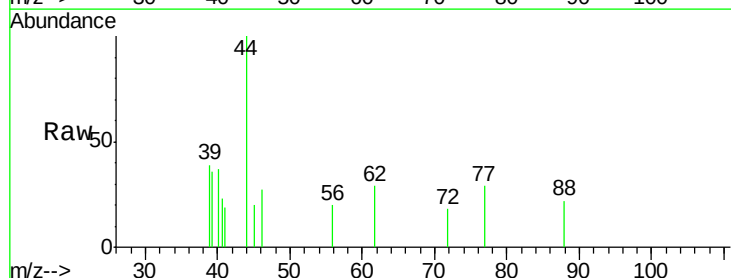
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 204.3 29.8 44.6#

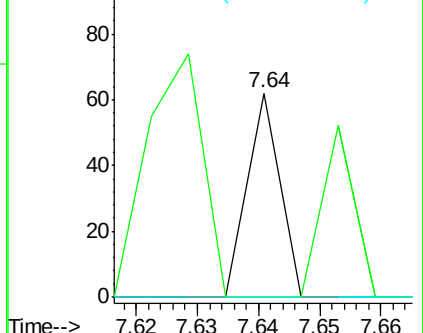
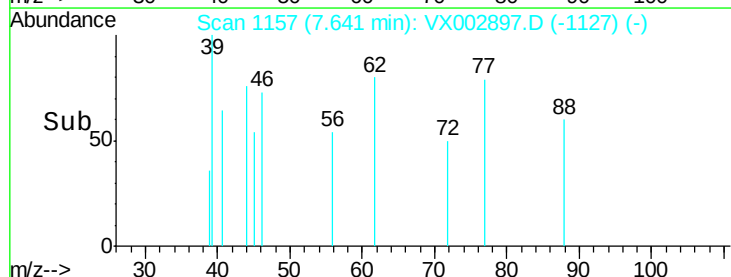
58 0.0 57.1 85.7#

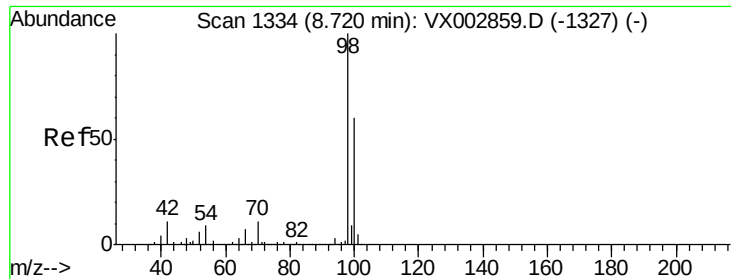


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.25 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

Instrument :

MSVOA_X

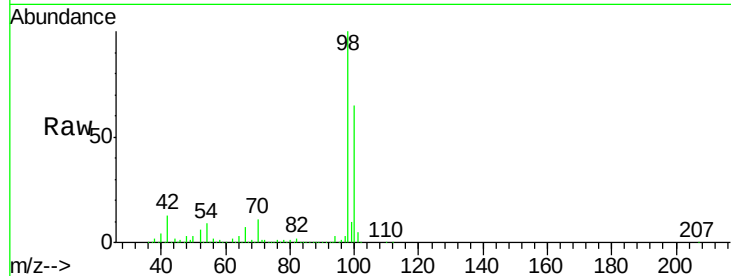
ClientSampleId :

Tot Ion: 98 Resp: 501094

Ion Ratio Lower Upper

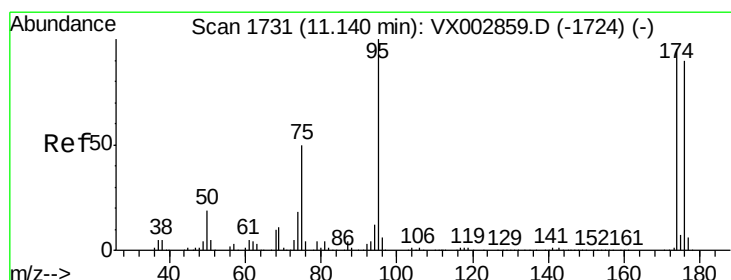
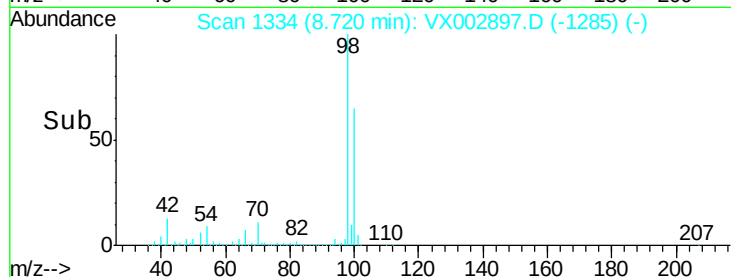
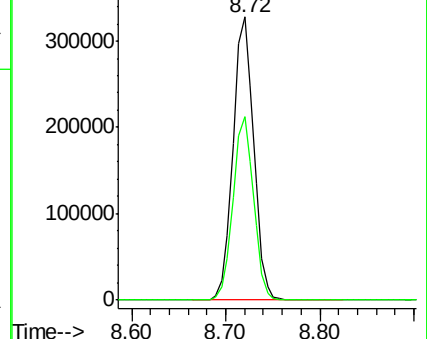
98 100

100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.39 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002897.D

Acq: 26 Jun 2018 15:16

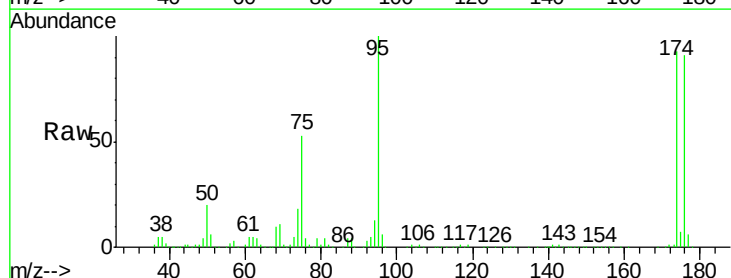
Tgt Ion: 95 Resp: 173801

Ion Ratio Lower Upper

95 100

174 97.5 0.0 187.4

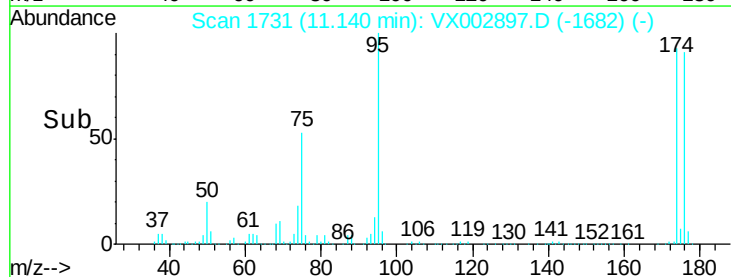
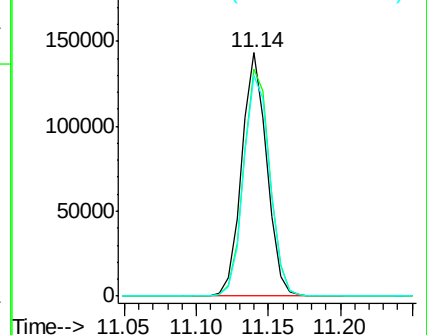
176 94.5 0.0 181.0

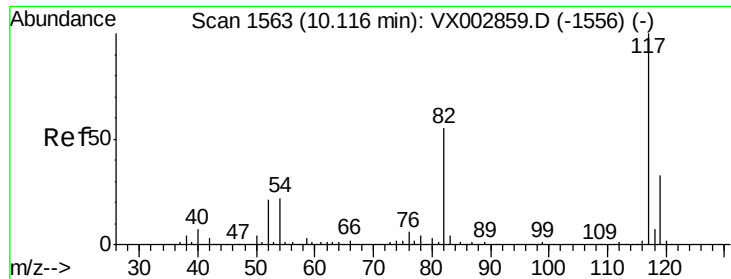


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

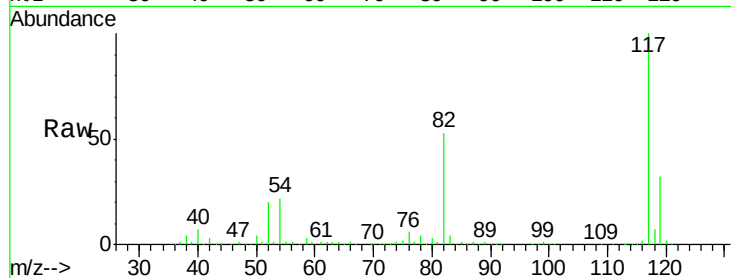




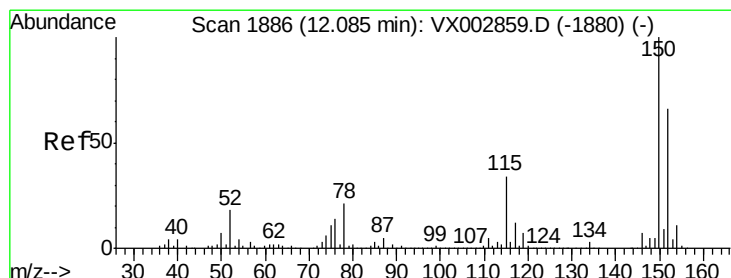
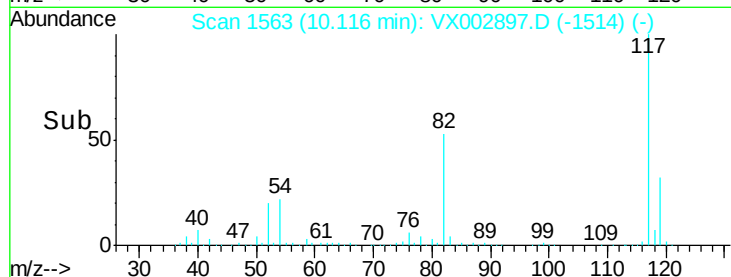
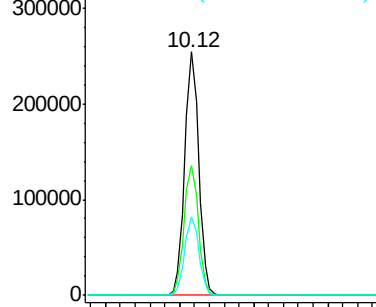
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002897.D
Acq: 26 Jun 2018 15:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 328957
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 32.3 25.8 38.6

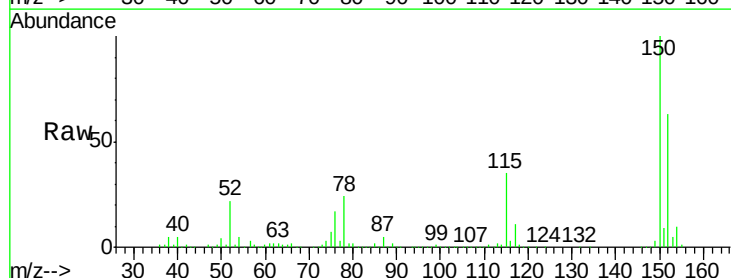


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

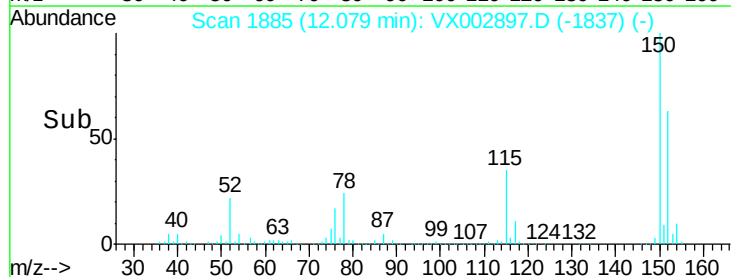
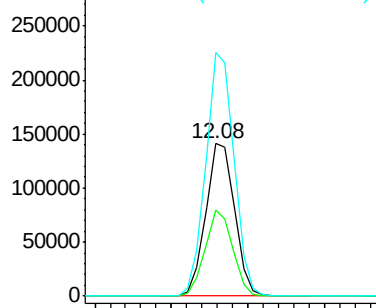


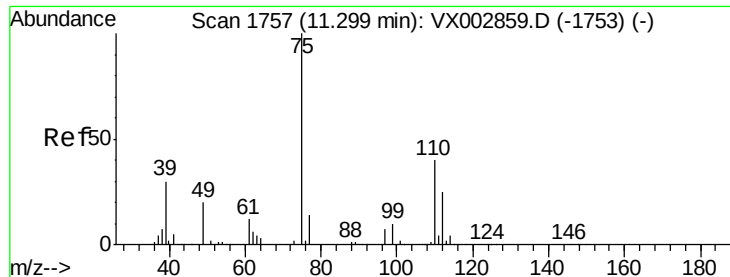
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX002897.D
Acq: 26 Jun 2018 15:16

Tgt Ion:152 Resp: 183741
Ion Ratio Lower Upper
152 100
115 54.6 40.1 120.2
150 157.1 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

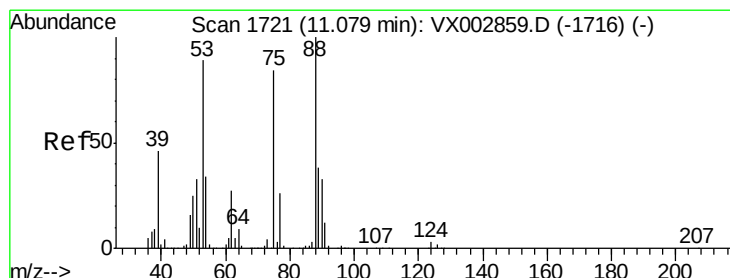
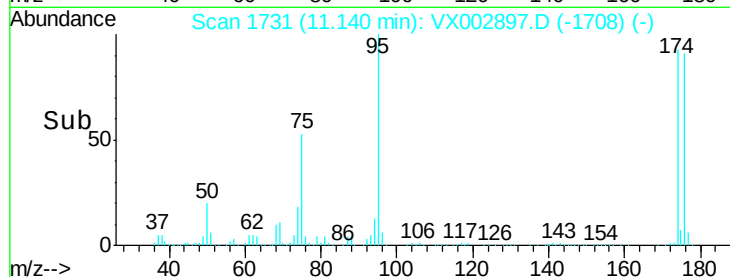
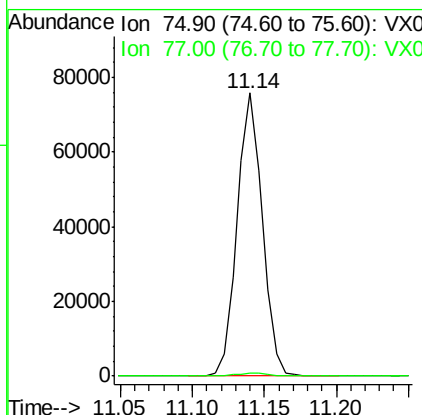
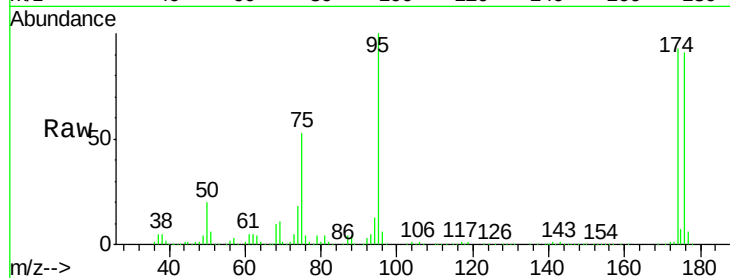




#76
 1,2,3-Trichloropropane
 Concen: 27.83 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002897.D
 Acq: 26 Jun 2018 15:16

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 92628
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.68 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002897.D
 Acq: 26 Jun 2018 15:16

Tgt Ion: 75 Resp: 92628
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

