

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX013019\
 Data File : VX007320.D
 Acq On : 30 Jan 2019 17:37
 Operator : JC/SP
 Sample : K1282-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-6

Quant Time: Jan 31 00:25:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	523048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	807566	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	793292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	386370	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	283633	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
35) Dibromofluoromethane	5.51	113	256176	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	8.71	98	994901	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	
62) 4-Bromofluorobenzene	11.13	95	356125	53.96	ug/l	0.00
Spiked Amount			Recovery	=	107.92%	

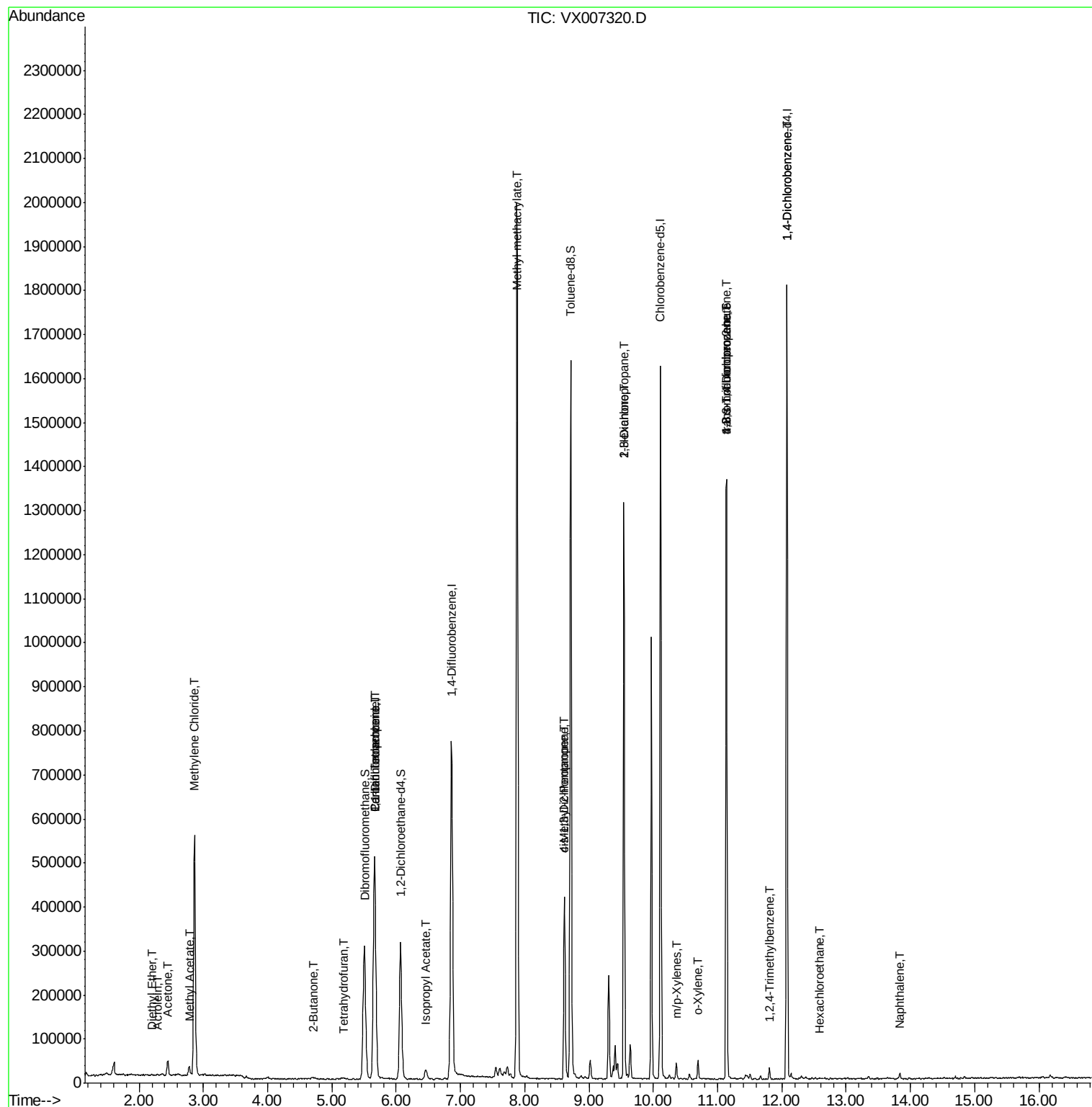
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	704	0.204	ug/l	63
13) Acrolein	2.28	56	769	4.450	ug/l #	37
16) Acetone	2.45	43	36593	13.541	ug/l	98
18) Methyl Acetate	2.78	43	28141	3.596	ug/l	99
20) Methylene Chloride	2.86	84	257931	50.184	ug/l	96
25) 2-Butanone	4.71	43	9407	2.433	ug/l #	86
29) Tetrahydrofuran	5.17	42	2643	1.052	ug/l #	67
36) 1,1-Dichloropropene	5.66	75	32521	4.632	ug/l #	49
38) Carbon Tetrachloride	5.66	117	47632	6.743	ug/l #	14
43) Isopropyl Acetate	6.45	43	29255	2.464	ug/l	98
48) Methyl methacrylate	7.88	41	164947	27.052	ug/l #	40
49) 1,4-Dioxane	7.75	88	222	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	137664	18.041	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	67168	8.513	ug/l #	68
57) 1,3-Dichloropropane	9.54	76	10813	1.198	ug/l #	42
59) 2-Hexanone	9.54	43	142299	24.472	ug/l #	51
68) m/p-Xylenes	10.36	106	8084	0.718	ug/l	90
69) o-Xylene	10.70	106	4615	0.420	ug/l	83
76) 1,2,3-Trichloropropane	11.13	75	168120	21.472	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	168120	63.681	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	11549	0.504	ug/l	98
88) 1,4-Dichlorobenzene	12.08	146	731	0.202	ug/l #	1
90) Hexachloroethane	12.59	117	218	2.961	ug/l #	6
95) Naphthalene	13.83	128	8034	0.289	ug/l	97

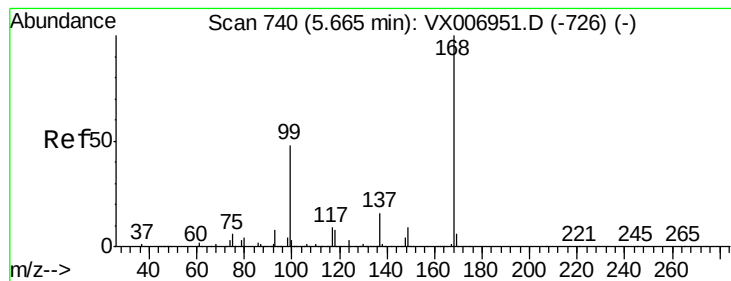
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampled :

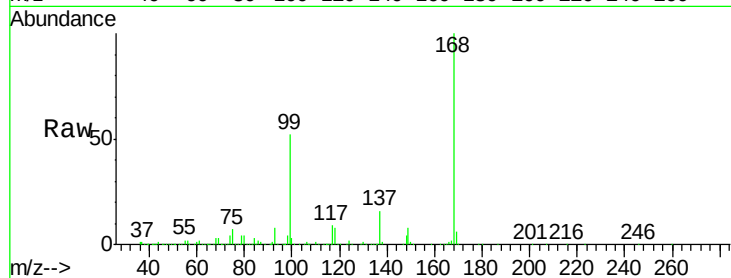
TP-6

Tot Ion:168 Resp: 523048

Ion Ratio Lower Upper

168 100

99 51.9 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

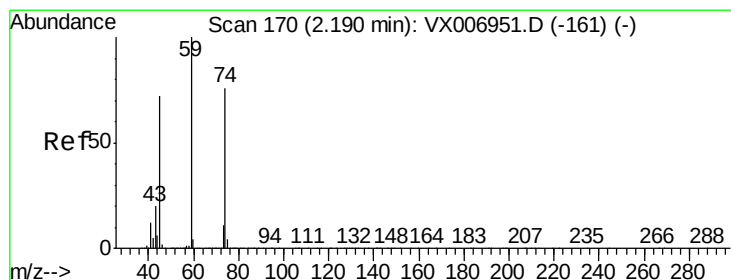
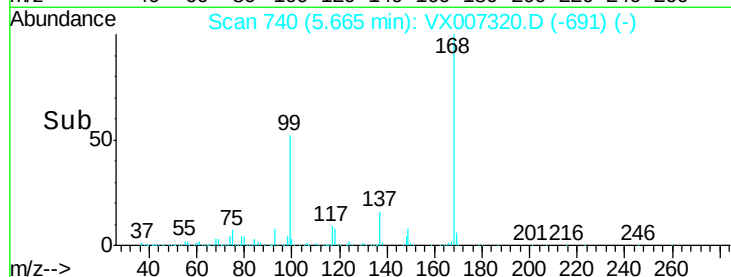
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.204 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX007320.D

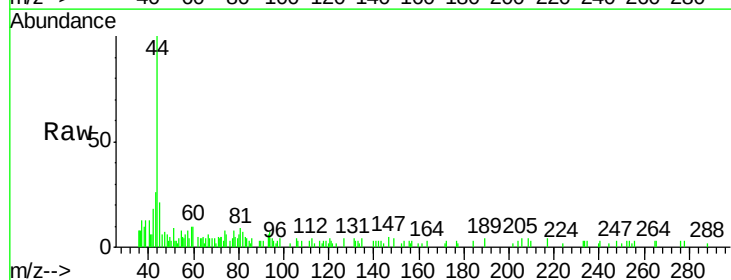
Acq: 30 Jan 2019 17:37

Tgt Ion: 74 Resp: 704

Ion Ratio Lower Upper

74 100

45 57.0 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.19

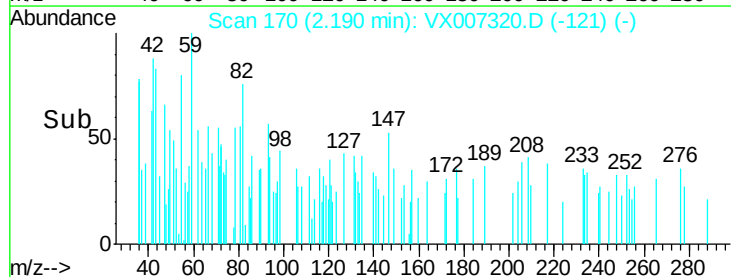
600

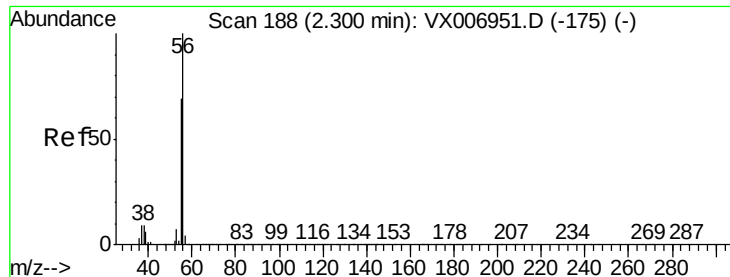
400

200

0

Time--> 2.15 2.20 2.25





#13

Acrolein

Concen: 4.450 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

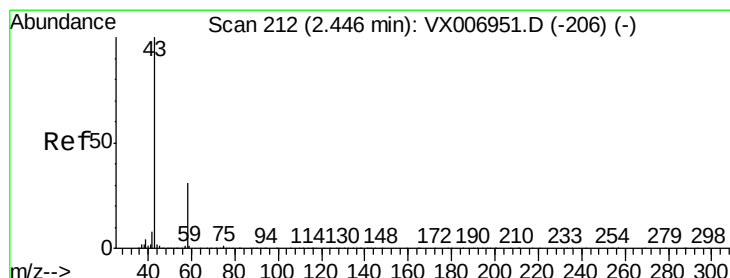
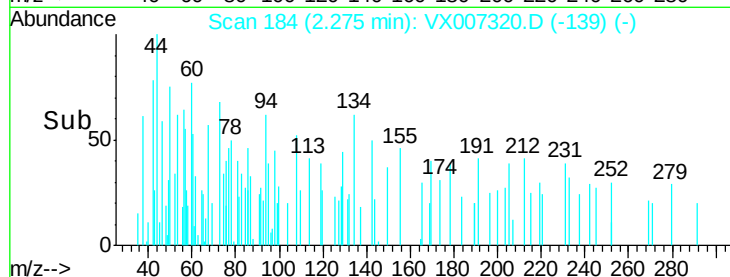
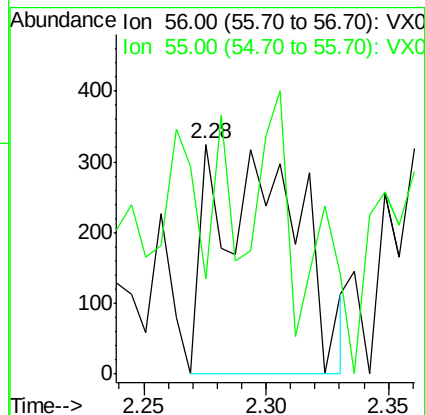
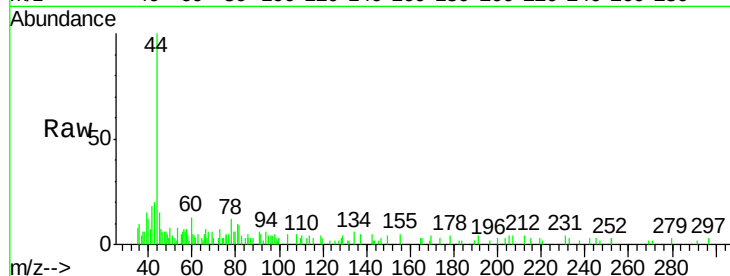
TP-6

Tot Ion: 56 Resp: 769

Ion Ratio Lower Upper

56 100

55 19.8 58.2 87.4#



#16

Acetone

Concen: 13.541 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007320.D

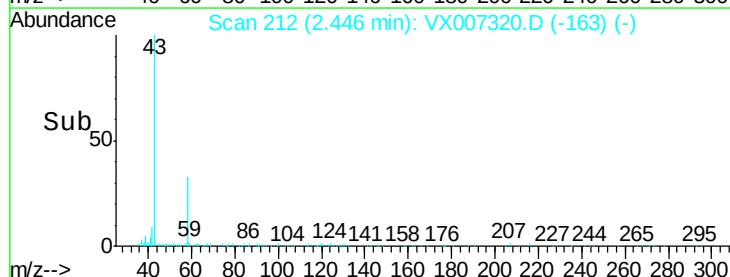
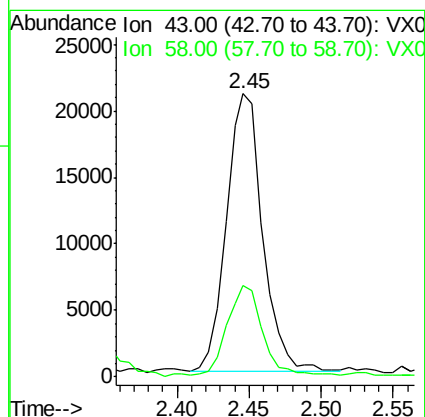
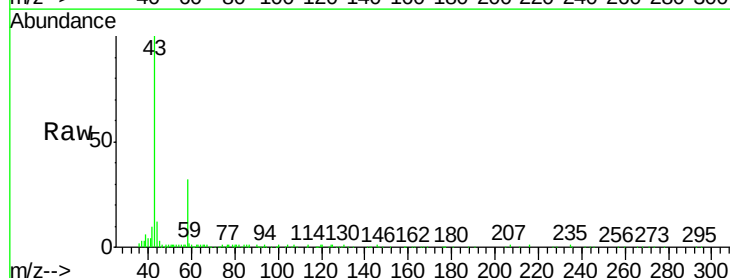
Acq: 30 Jan 2019 17:37

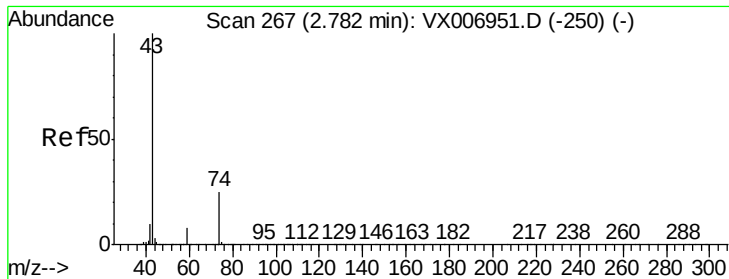
Tgt Ion: 43 Resp: 36593

Ion Ratio Lower Upper

43 100

58 32.5 25.0 37.6

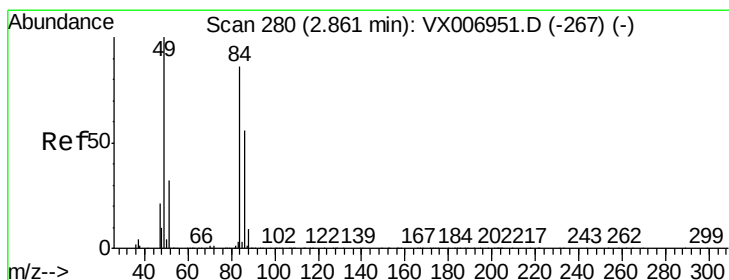
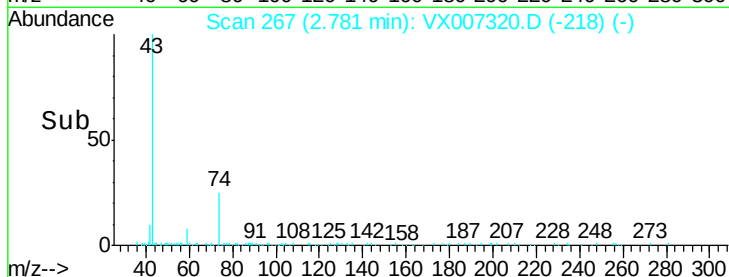
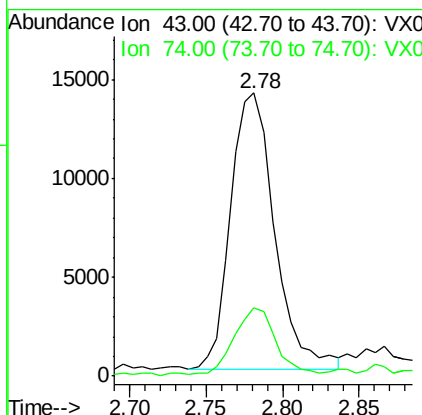
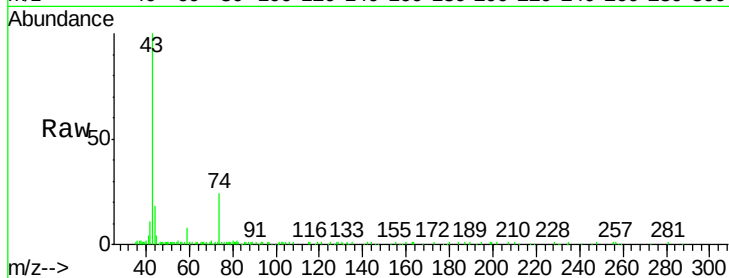




#18
Methyl Acetate
Concen: 3.596 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007320.D
Acq: 30 Jan 2019 17:37

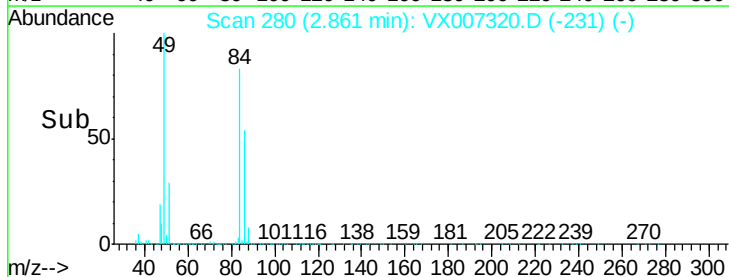
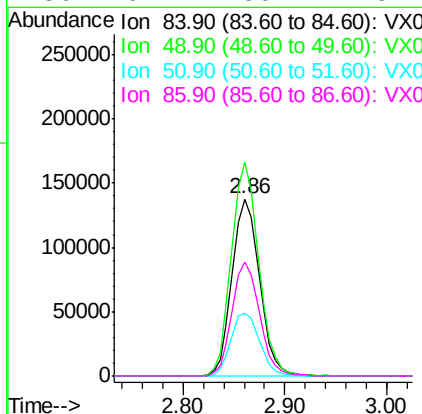
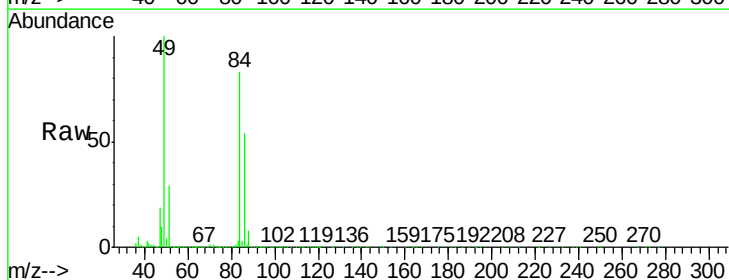
Instrument :
MSVOA_X
ClientSampleId :
TP-6

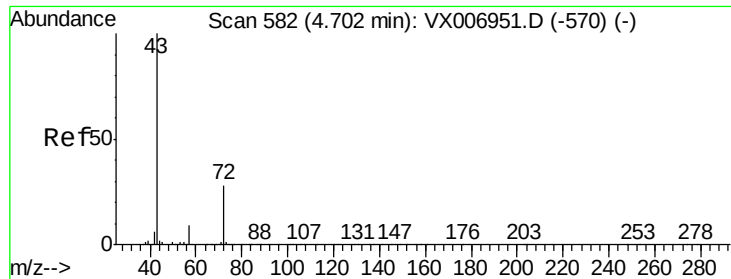
Tot Ion: 43 Resp: 28141
Ion Ratio Lower Upper
43 100
74 22.8 18.6 28.0



#20
Methylene Chloride
Concen: 50.184 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007320.D
Acq: 30 Jan 2019 17:37

Tgt Ion: 84 Resp: 257931
Ion Ratio Lower Upper
84 100
49 120.9 91.8 137.6
51 35.2 28.5 42.7
86 64.7 50.2 75.2





#25

2-Butanone

Concen: 2.433 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

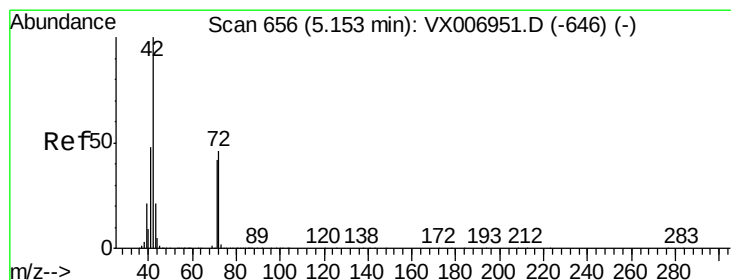
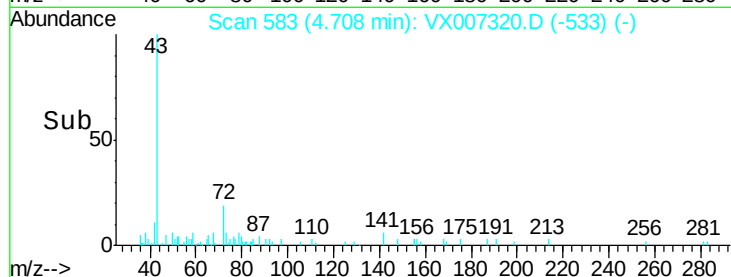
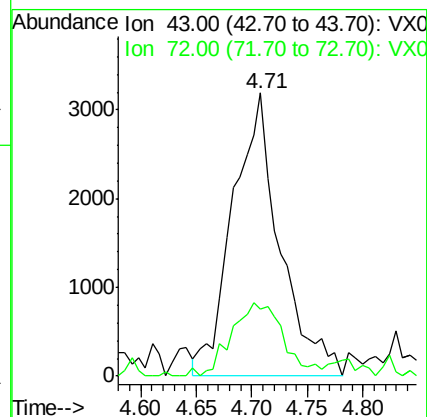
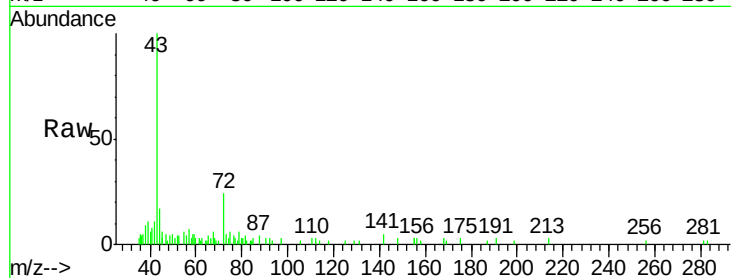
TP-6

Tot Ion: 43 Resp: 9407

Ion Ratio Lower Upper

43 100

72 20.6 22.4 33.6#



#29

Tetrahydrofuran

Concen: 1.052 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

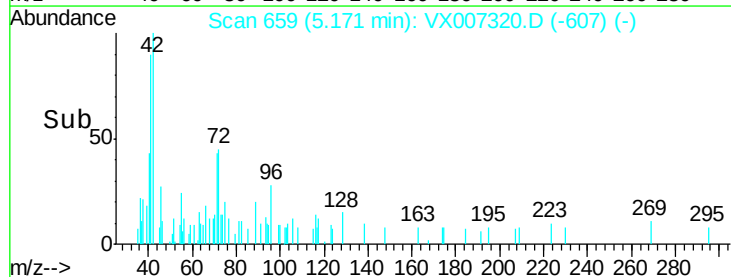
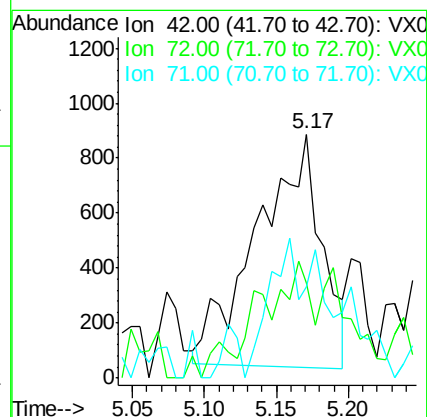
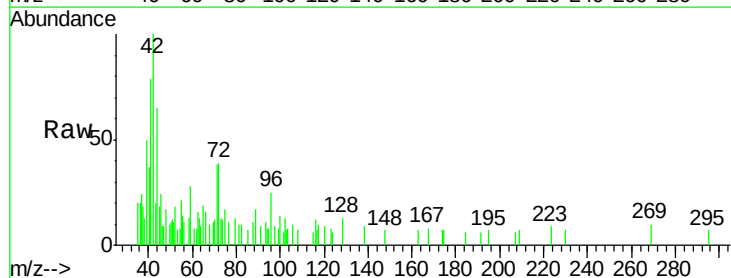
Tgt Ion: 42 Resp: 2643

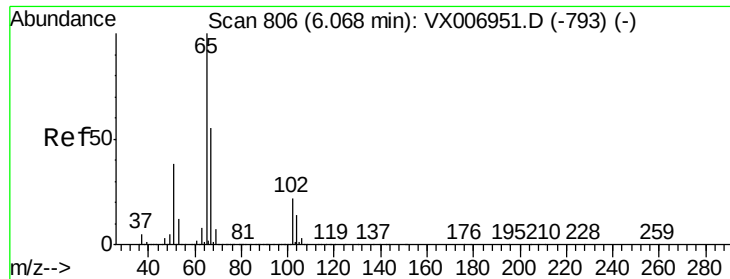
Ion Ratio Lower Upper

42 100

72 19.1 38.9 58.3#

71 30.6 36.2 54.4#

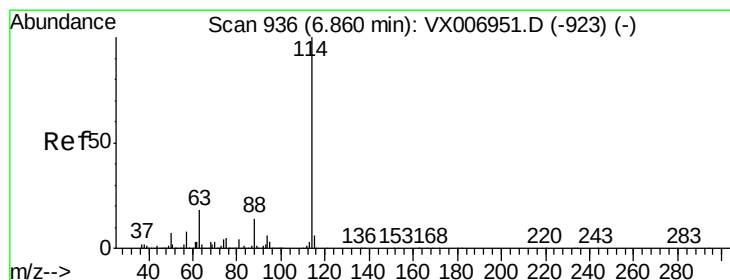
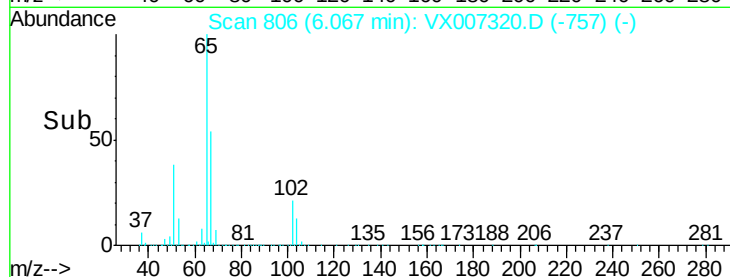
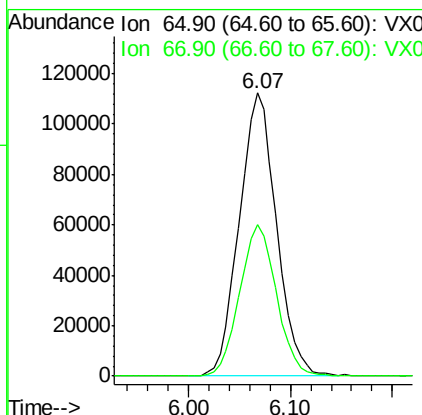
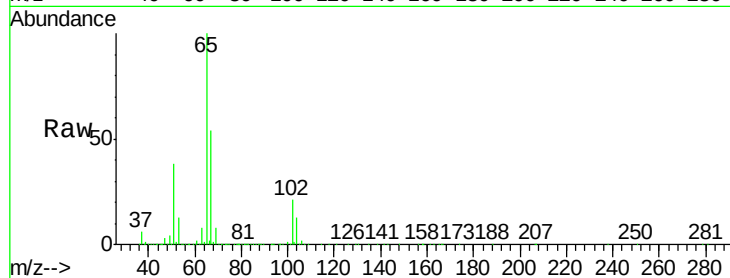




#33
 1,2-Dichloroethane-d4
 Concen: 51.888 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007320.D
 Acq: 30 Jan 2019 17:37

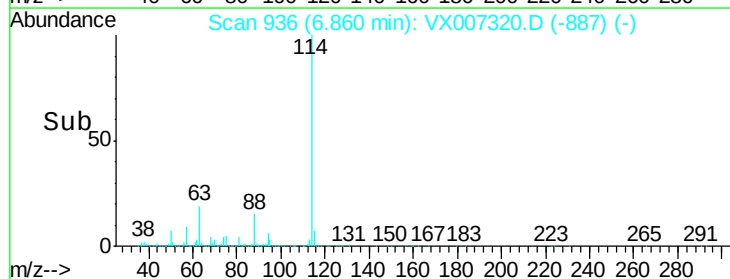
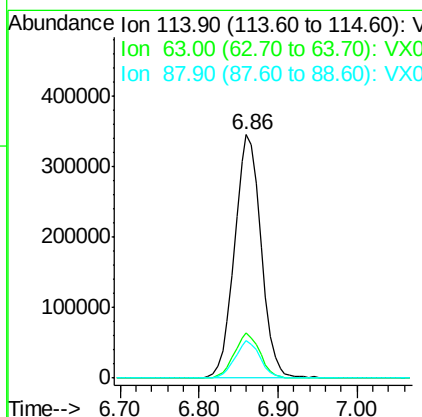
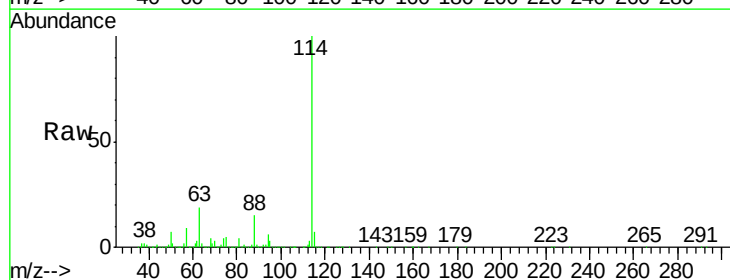
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-6

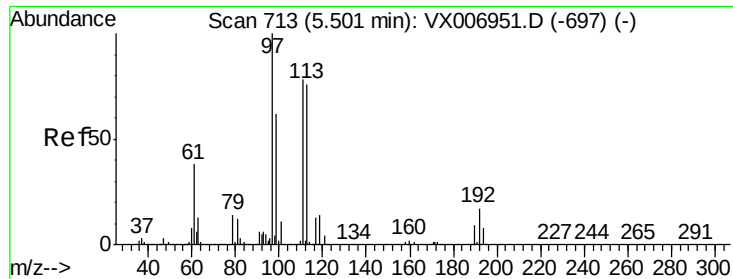
Tot Ion: 65 Resp: 283633
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007320.D
 Acq: 30 Jan 2019 17:37

Tgt Ion: 114 Resp: 807566
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 34.8
 88 15.3 0.0 28.8





#35

Dibromofluoromethane

Concen: 49.535 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

TP-6

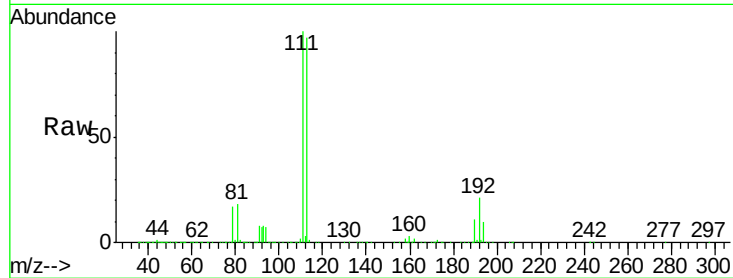
Tot Ion:113 Resp: 256176

Ion Ratio Lower Upper

113 100

111 101.9 81.6 122.4

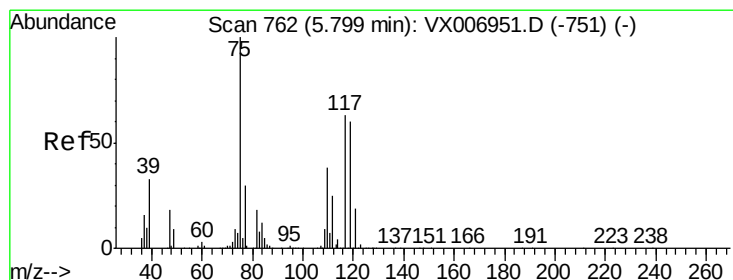
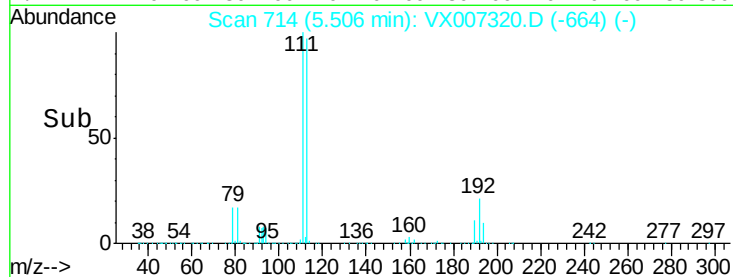
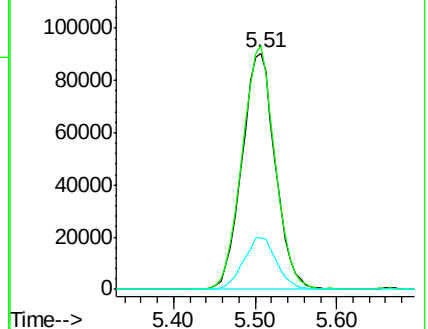
192 22.0 16.7 25.1



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: 4.632 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

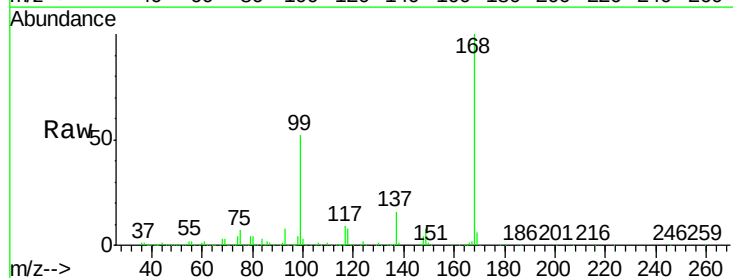
Tgt Ion: 75 Resp: 32521

Ion Ratio Lower Upper

75 100

110 11.2 20.2 60.5#

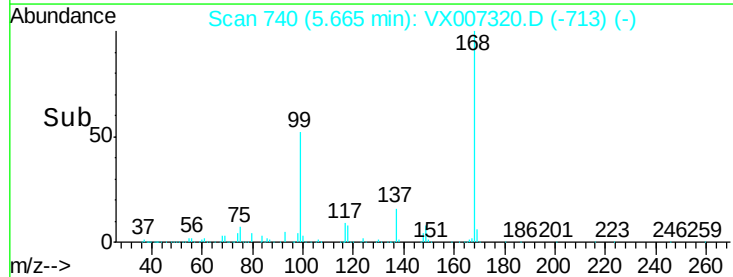
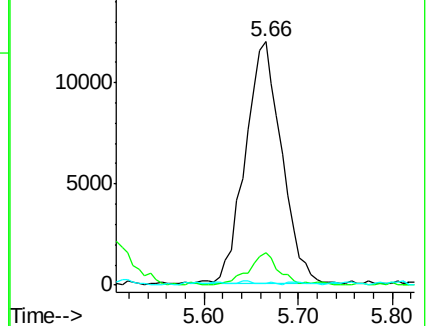
77 0.4 24.8 37.2#

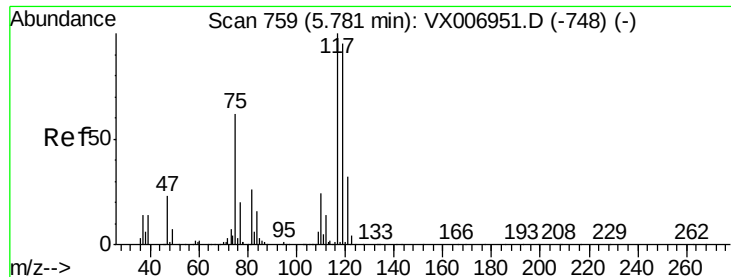


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.743 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampled :

TP-6

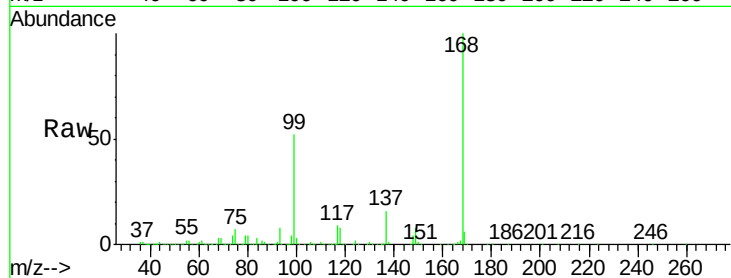
Tot Ion:117 Resp: 47632

Ion Ratio Lower Upper

117 100

119 4.1 79.4 119.2#

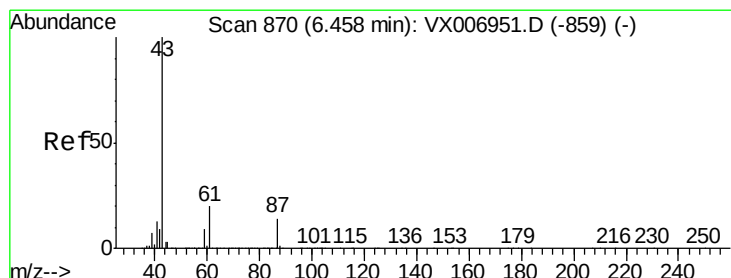
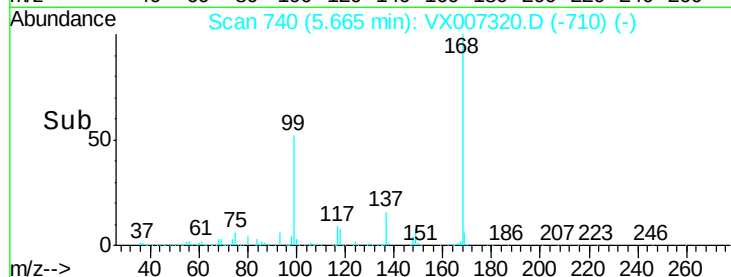
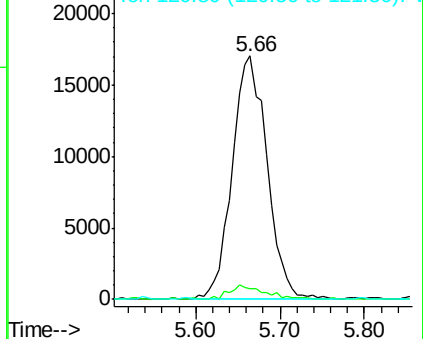
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.464 ug/l

RT: 6.45 min Scan# 869

Delta R.T. -0.01 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

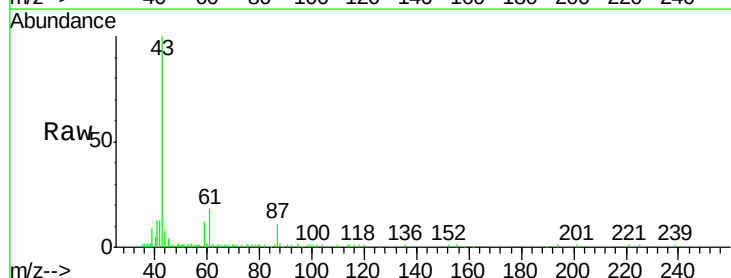
Tgt Ion: 43 Resp: 29255

Ion Ratio Lower Upper

43 100

61 20.4 16.8 25.2

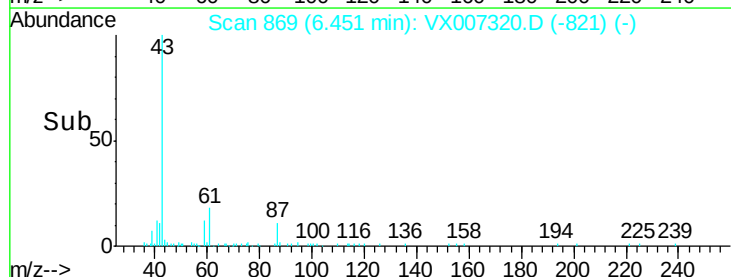
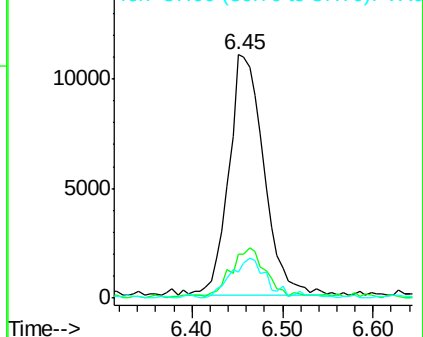
87 16.8 12.4 18.6

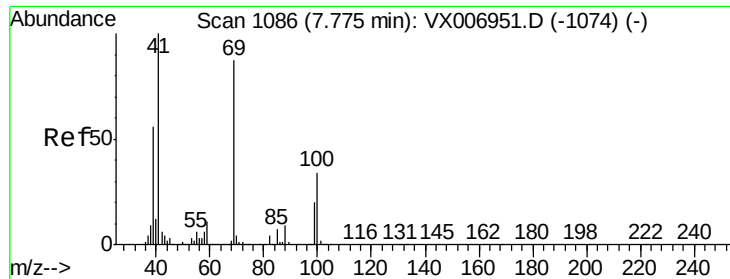


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 27.052 ug/l

RT: 7.88 min Scan# 1103

Delta R.T. 0.10 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

TP-6

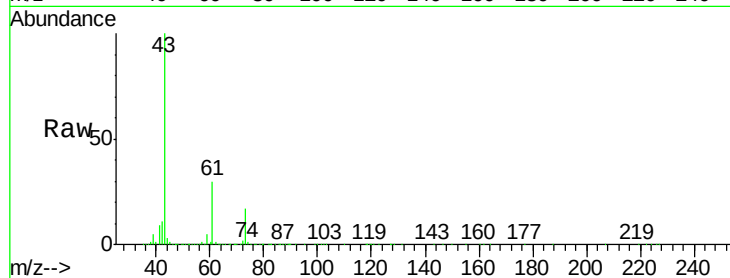
Tot Ion: 41 Resp: 164947

Ion Ratio Lower Upper

41 100

69 0.3 72.4 108.6#

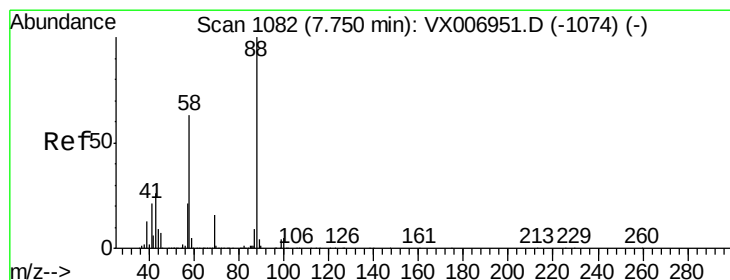
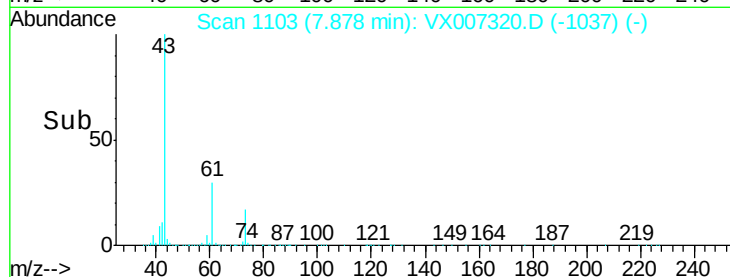
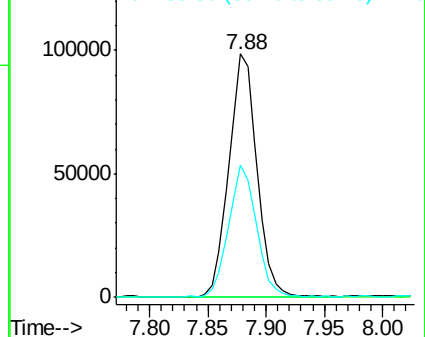
39 54.5 45.8 68.8



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. -0.00 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

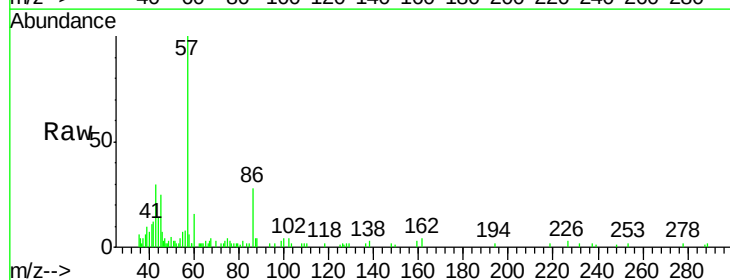
Tgt Ion: 88 Resp: 222

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

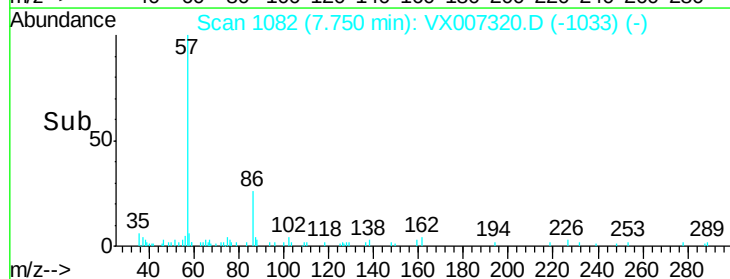
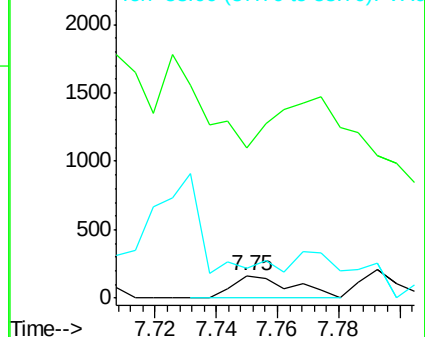
58 743.2 51.0 76.4#

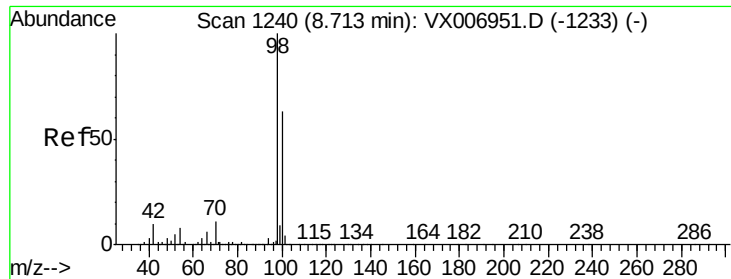


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.558 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

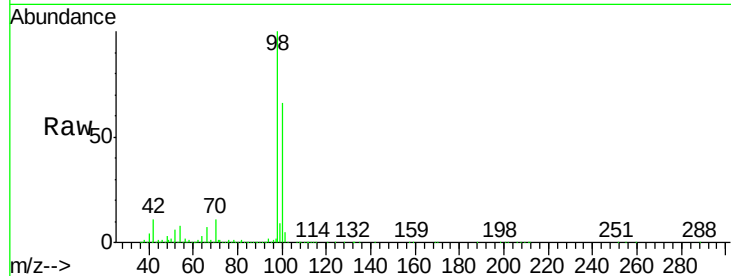
TP-6

Tot Ion: 98 Resp: 994901

Ion Ratio Lower Upper

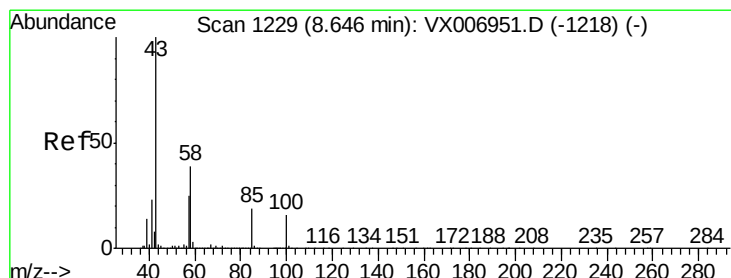
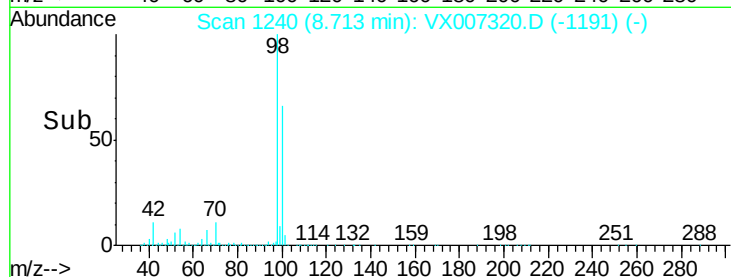
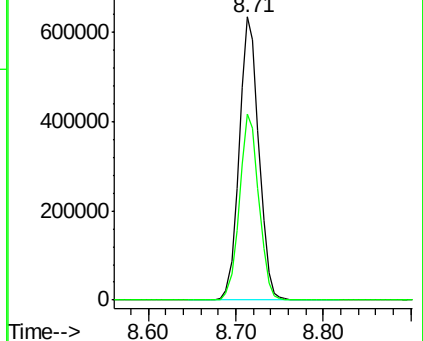
98 100

100 65.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 18.041 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007320.D

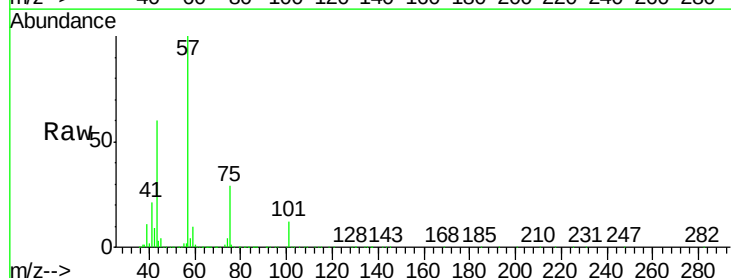
Acq: 30 Jan 2019 17:37

Tgt Ion: 43 Resp: 137664

Ion Ratio Lower Upper

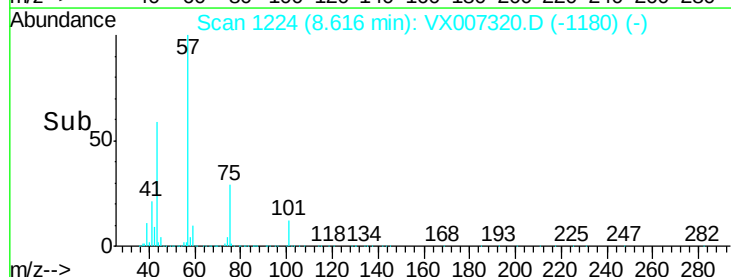
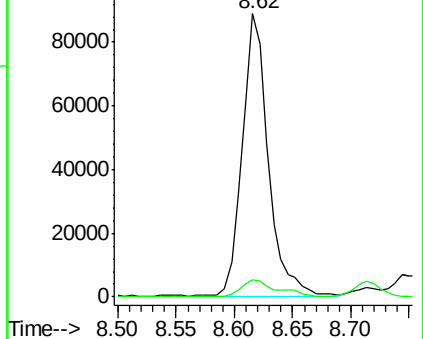
43 100

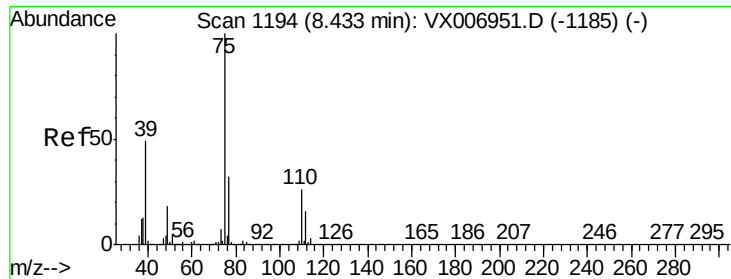
58 8.6 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 8.513 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

TP-6

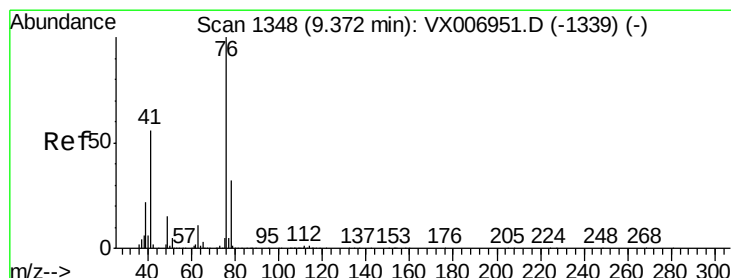
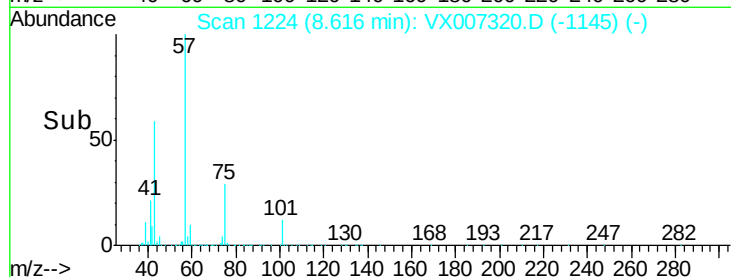
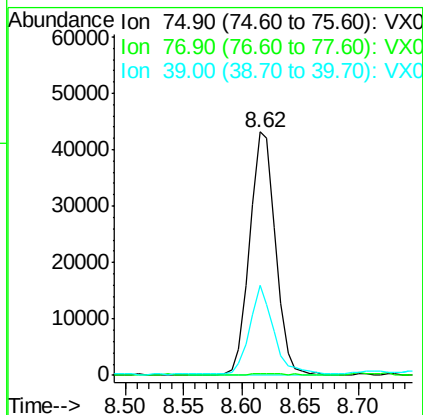
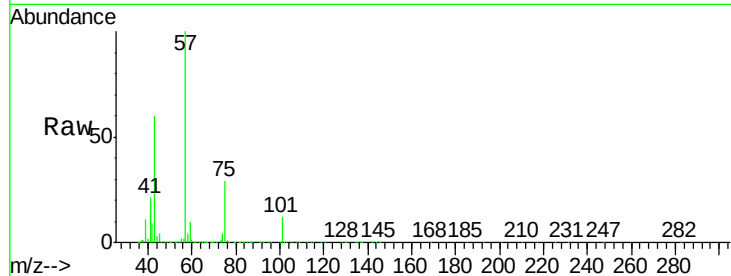
Tot Ion: 75 Resp: 67168

Ion Ratio Lower Upper

75 100

77 0.9 26.2 39.2#

39 36.3 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.198 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007320.D

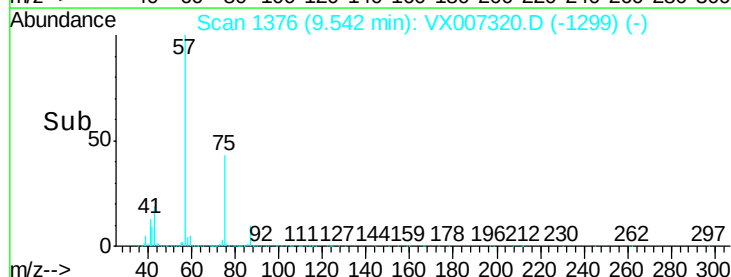
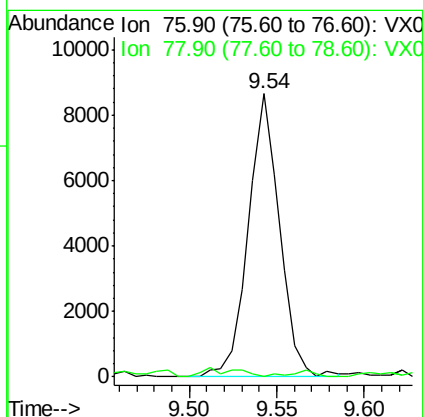
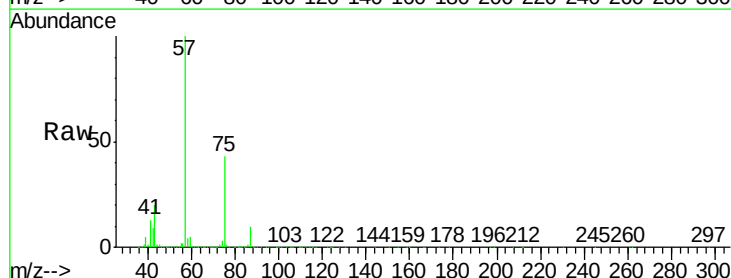
Acq: 30 Jan 2019 17:37

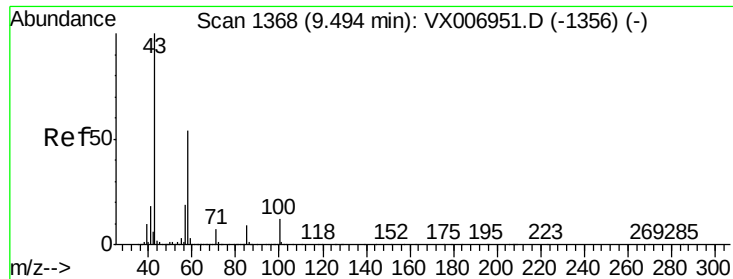
Tgt Ion: 76 Resp: 10813

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

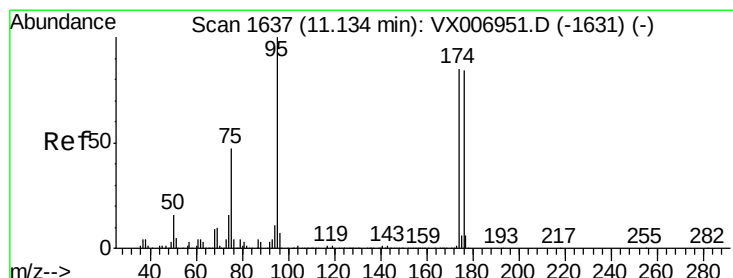
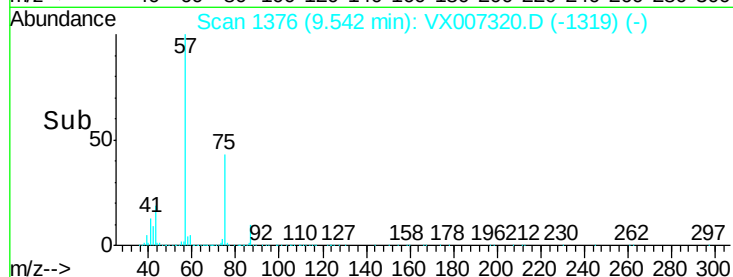
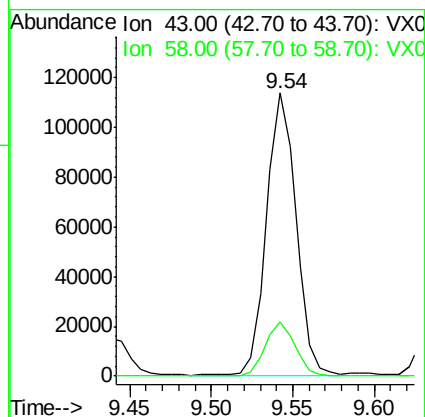
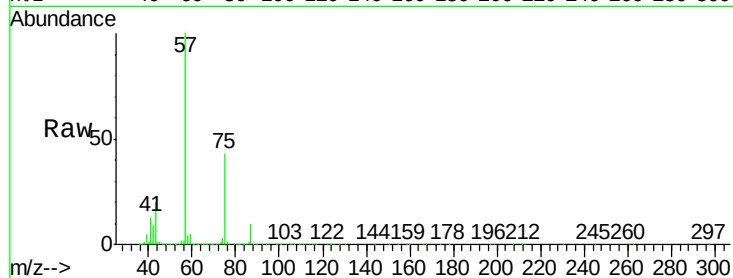




#59
2-Hexanone
Concen: 24.472 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007320.D
Acq: 30 Jan 2019 17:37

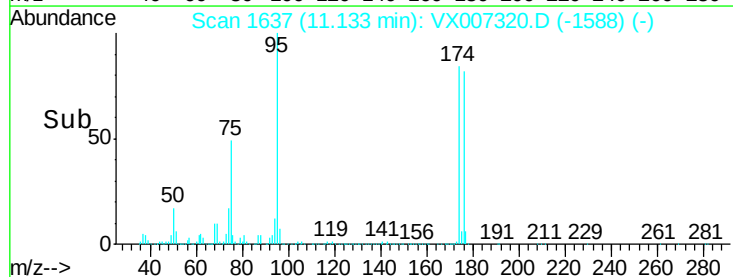
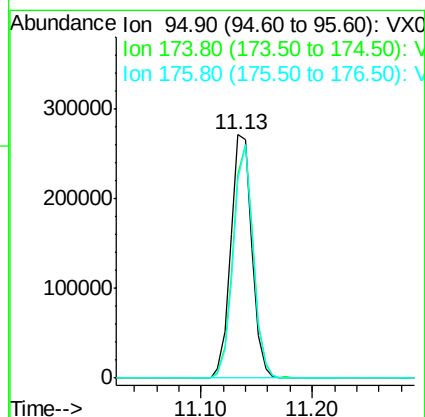
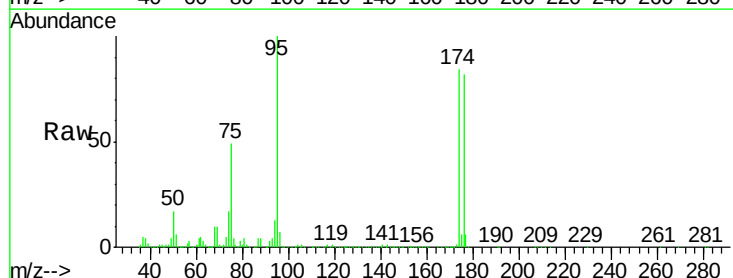
Instrument :
MSVOA_X
ClientSampled :
TP-6

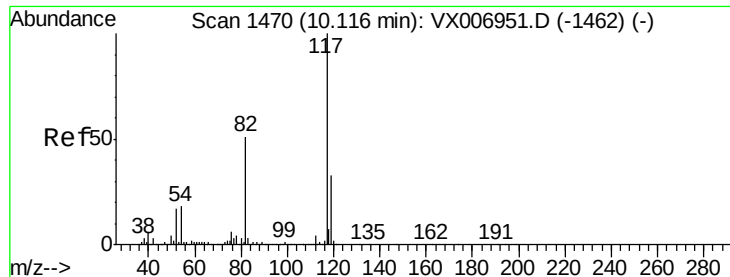
Tot Ion: 43 Resp: 142299
Ion Ratio Lower Upper
43 100
58 20.1 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 53.964 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007320.D
Acq: 30 Jan 2019 17:37

Tgt Ion: 95 Resp: 356125
Ion Ratio Lower Upper
95 100
174 92.4 0.0 182.2
176 89.6 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

TP-6

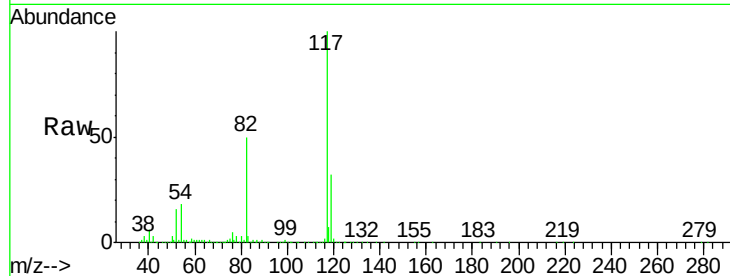
Tot Ion:117 Resp: 793292

Ion Ratio Lower Upper

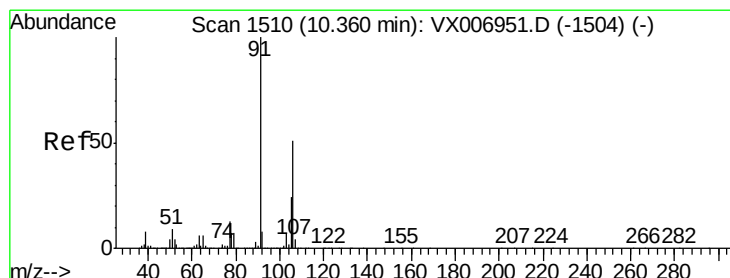
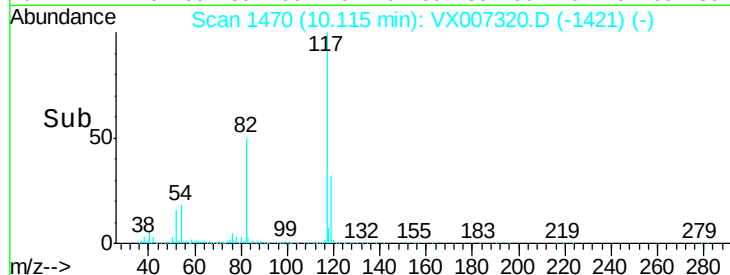
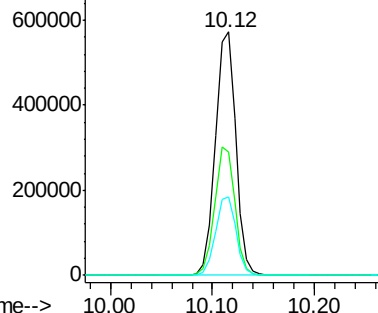
117 100

82 50.4 41.0 61.6

119 32.4 25.4 38.0



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



#68

m/p-Xylenes

Concen: 0.718 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007320.D

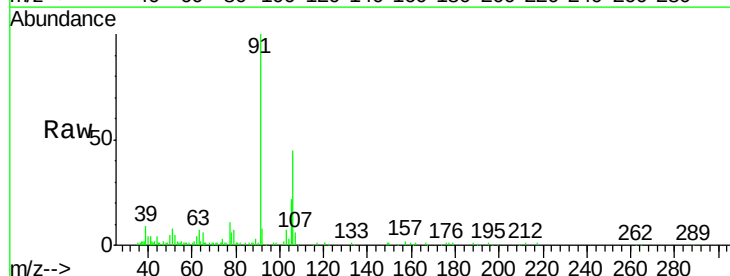
Acq: 30 Jan 2019 17:37

Tgt Ion:106 Resp: 8084

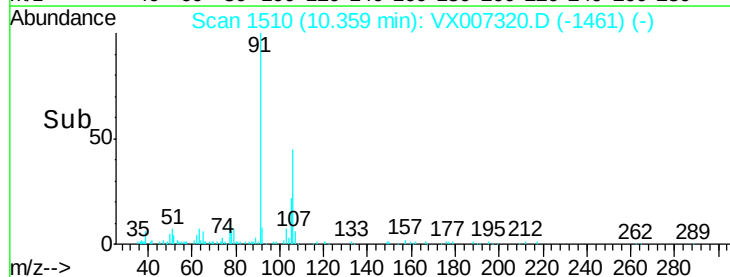
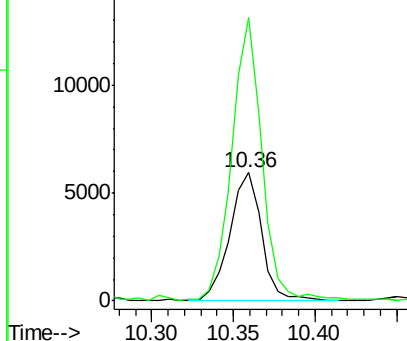
Ion Ratio Lower Upper

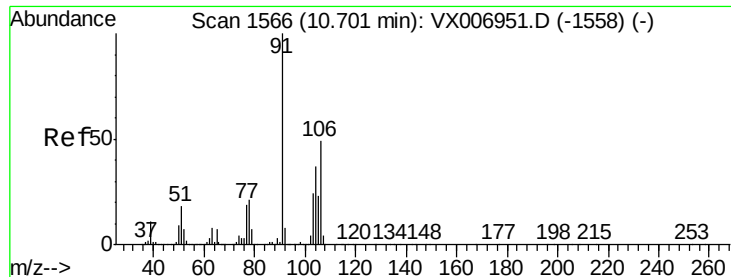
106 100

91 210.3 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

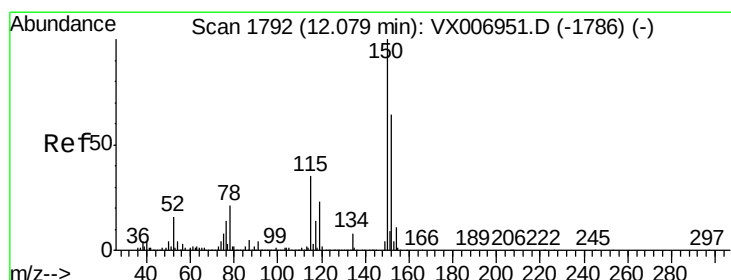
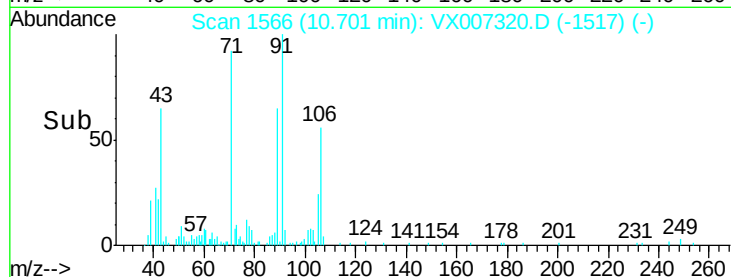
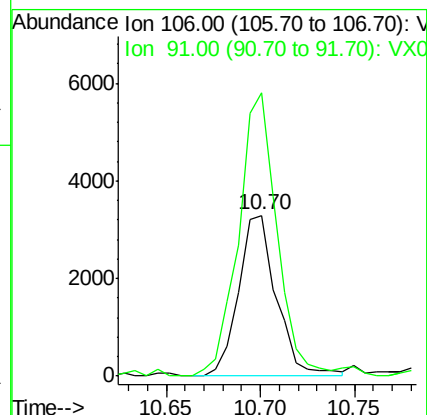
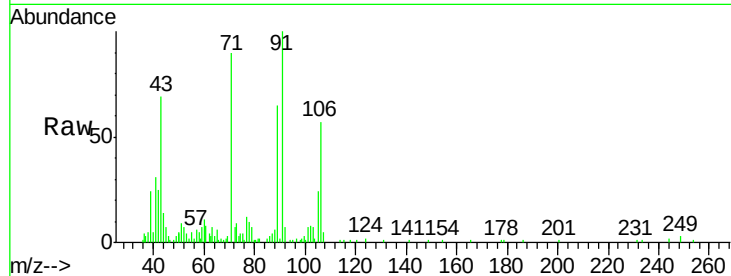




#69
o-Xylene
Concen: 0.420 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX007320.D
Acq: 30 Jan 2019 17:37

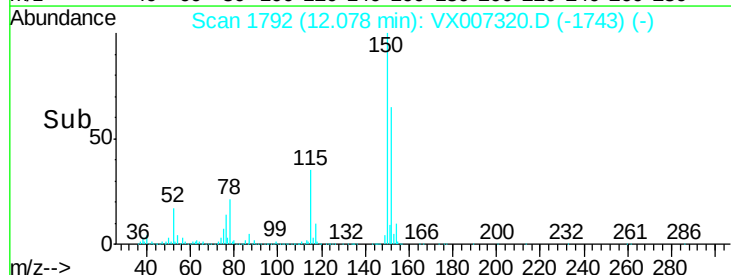
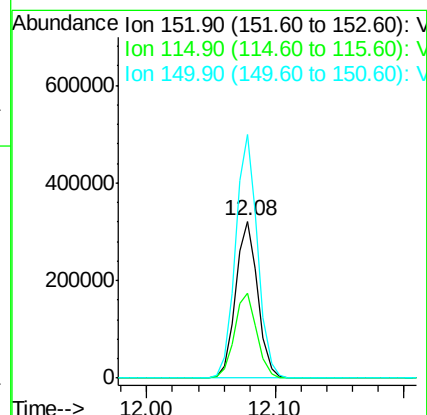
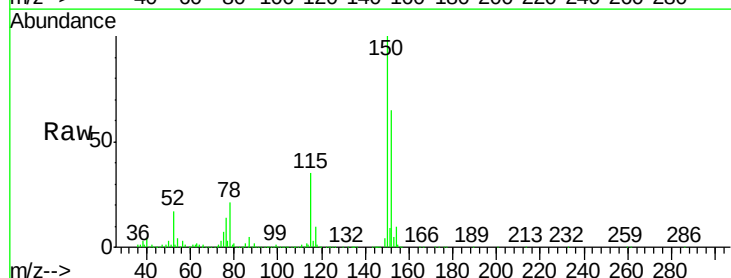
Instrument :
MSVOA_X
ClientSampled :
TP-6

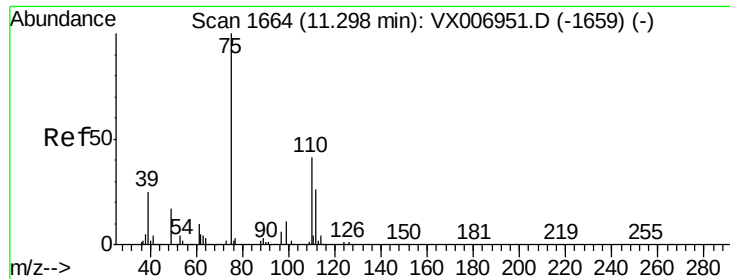
Tot Ion:106 Resp: 4615
Ion Ratio Lower Upper
106 100
91 177.1 101.3 303.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007320.D
Acq: 30 Jan 2019 17:37

Tgt Ion:152 Resp: 386370
Ion Ratio Lower Upper
152 100
115 54.5 39.1 117.2
150 154.4 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 21.472 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampleId :

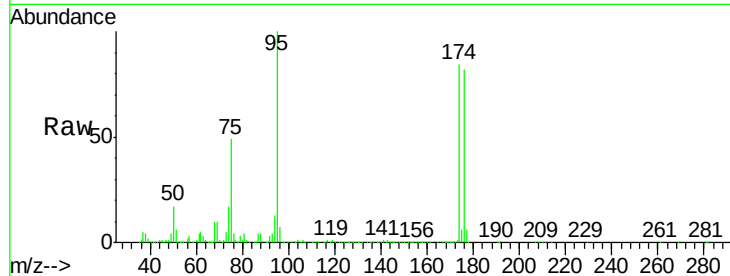
TP-6

Tot Ion: 75 Resp: 168120

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

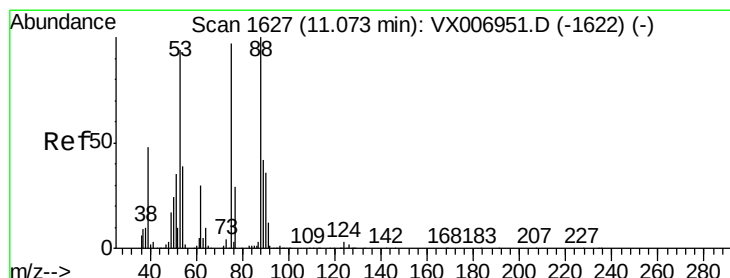
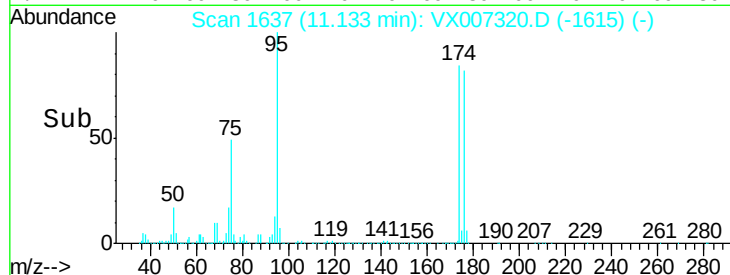
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.681 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

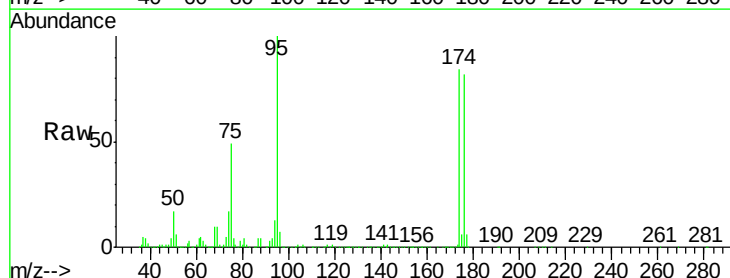
Tgt Ion: 75 Resp: 168120

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.0 38.0 57.0#



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

11.13

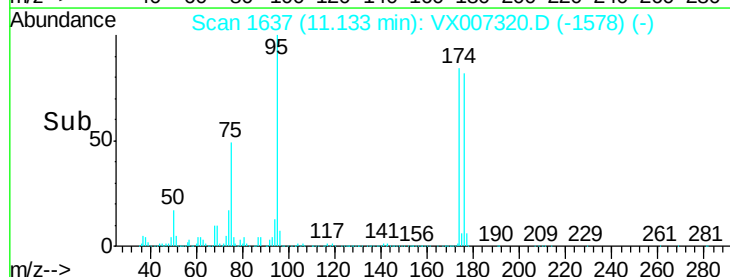
150000

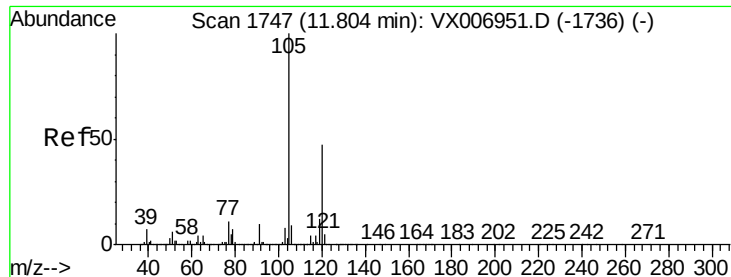
100000

50000

0

Time-->

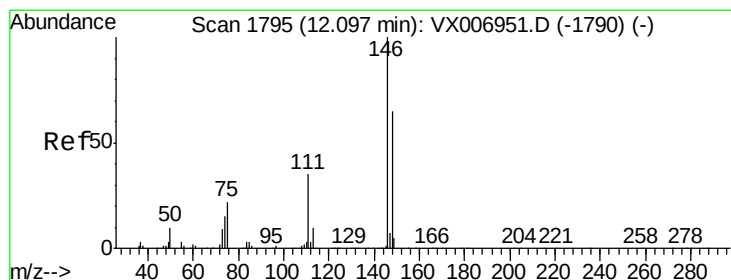
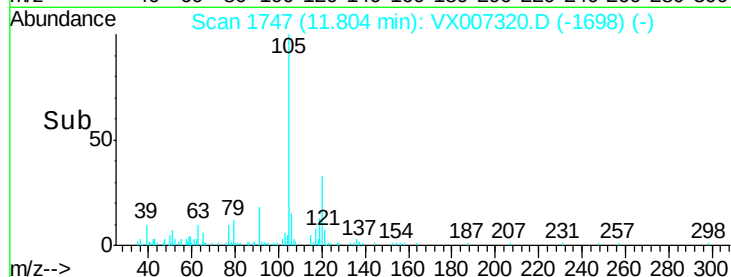
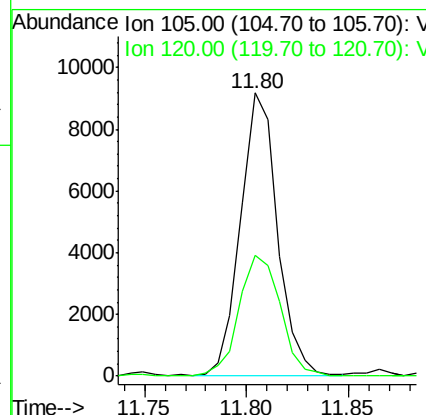
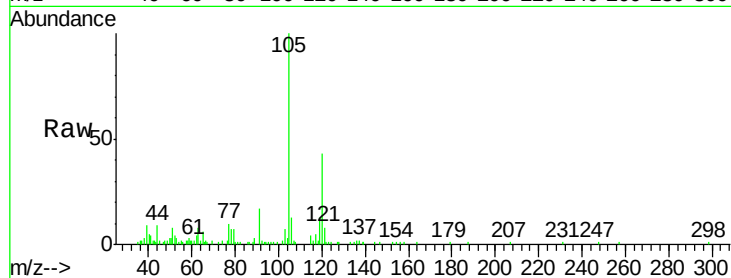




#84
 1,2,4-Trimethylbenzene
 Concen: 0.504 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.00 min
 Lab File: VX007320.D
 Acq: 30 Jan 2019 17:37

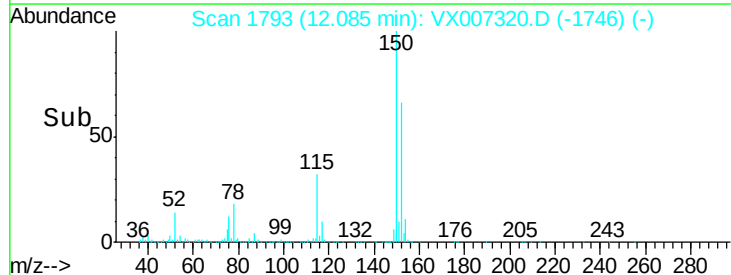
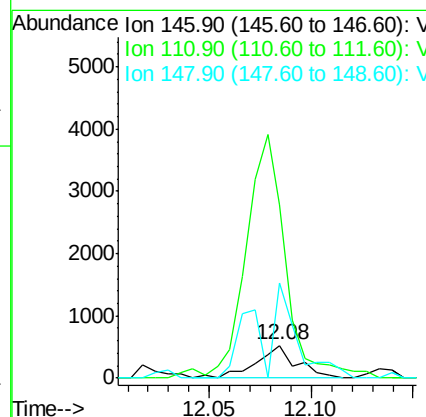
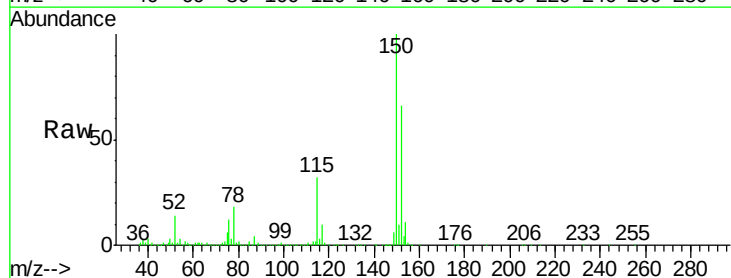
Instrument :
 MSVOA_X
 ClientSampled :
 TP-6

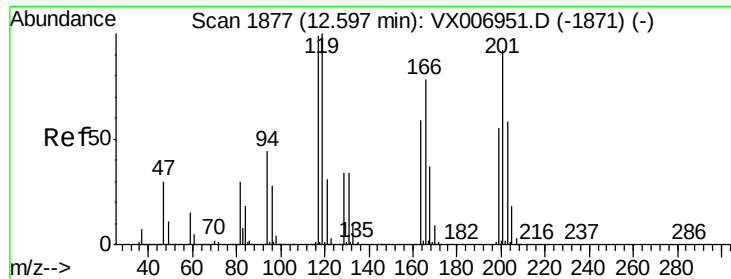
Tot Ion:105 Resp: 11549
 Ion Ratio Lower Upper
 105 100
 120 47.5 23.2 69.6



#88
 1,4-Dichlorobenzene
 Concen: 0.202 ug/l
 RT: 12.08 min Scan# 1793
 Delta R.T. -0.01 min
 Lab File: VX007320.D
 Acq: 30 Jan 2019 17:37

Tgt Ion:146 Resp: 731
 Ion Ratio Lower Upper
 146 100
 111 727.2 18.1 54.1#
 148 161.8 31.9 95.9#





#90

Hexachloroethane

Concen: 2.961 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Instrument :

MSVOA_X

ClientSampled :

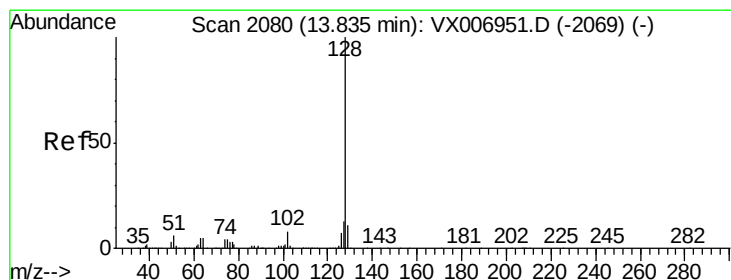
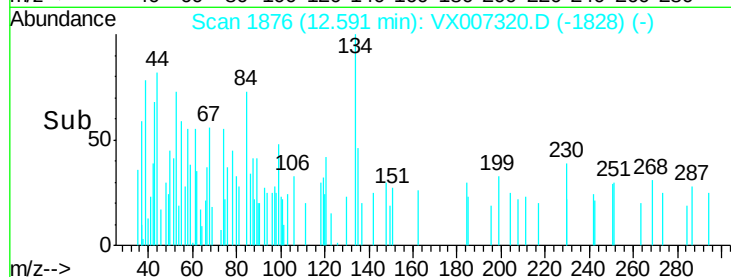
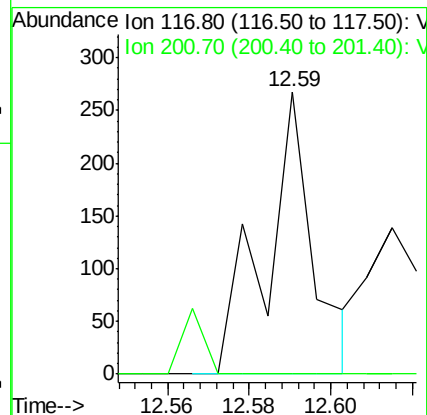
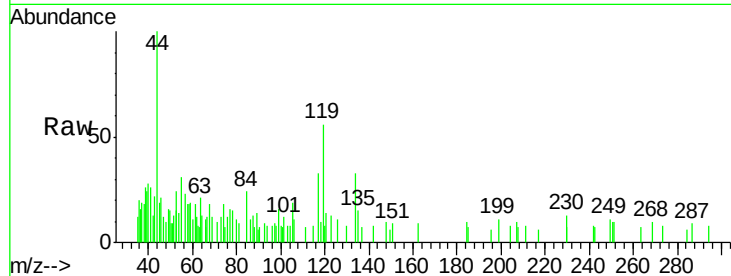
TP-6

Tot Ion:117 Resp: 218

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



#95

Naphthalene

Concen: 0.289 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007320.D

Acq: 30 Jan 2019 17:37

Tgt Ion:128 Resp: 8034

Ion Ratio Lower Upper

128 100

127 11.4 10.1 15.1

129 11.9 8.6 13.0

