

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX013019\
 Data File : VX007322.D
 Acq On : 30 Jan 2019 18:31
 Operator : JC/SP
 Sample : K1282-32
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-8

Quant Time: Jan 31 00:25:59 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	5.67	168	511082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	788751	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	780287	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	378682	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	277566	51.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.94%	
35) Dibromofluoromethane	5.50	113	250619	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
50) Toluene-d8	8.71	98	984817	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
62) 4-Bromofluorobenzene	11.13	95	344272	53.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.82%	

Target Compounds

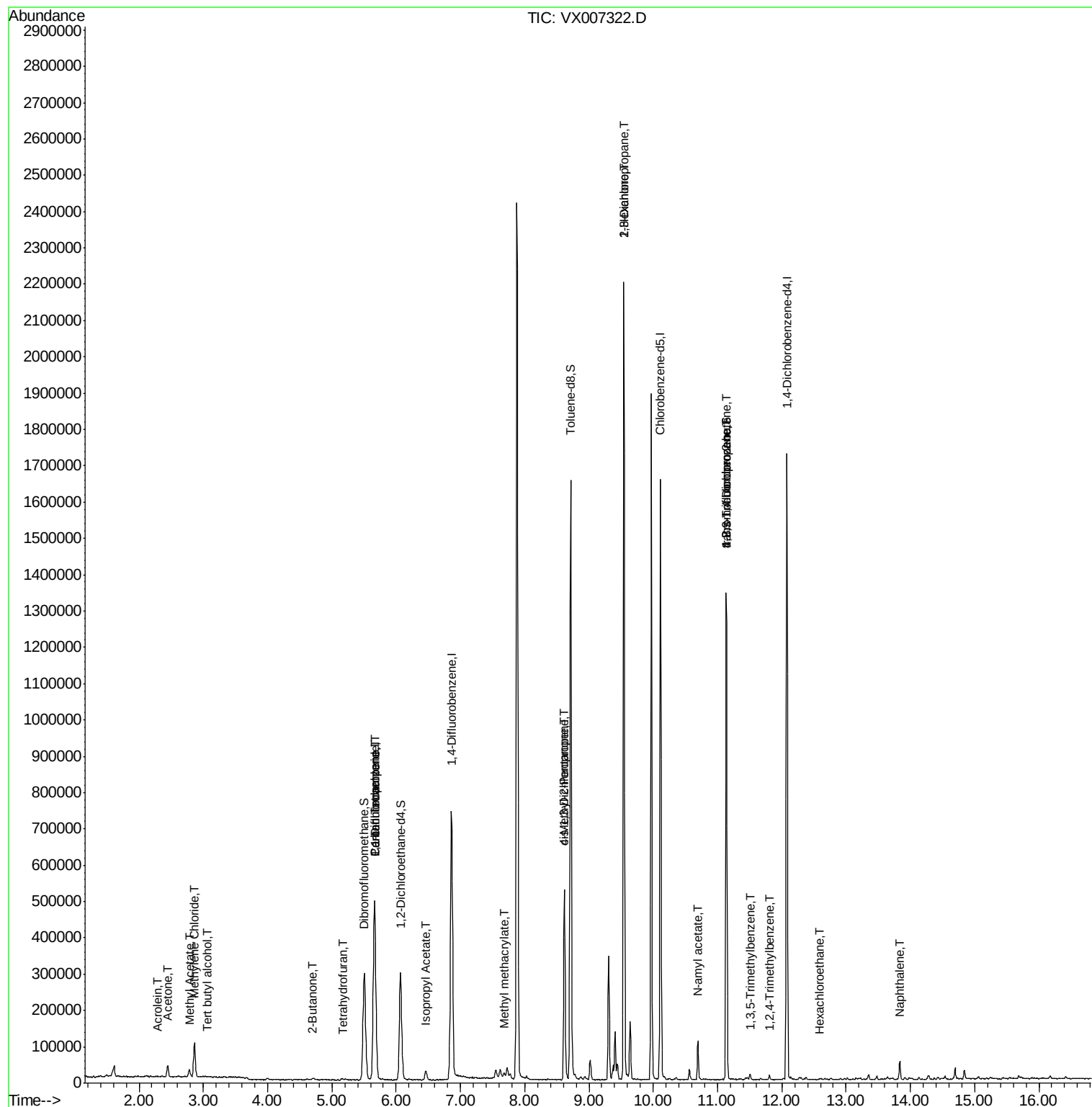
						Qvalue
11) Tert butyl alcohol	3.05	59	3720	2.952	ug/l #	72
13) Acrolein	2.29	56	95	3.257	ug/l #	6
16) Acetone	2.45	43	37284	14.120	ug/l	95
18) Methyl Acetate	2.78	43	29596	3.870	ug/l	96
20) Methylene Chloride	2.86	84	44619	8.413	ug/l	92
25) 2-Butanone	4.70	43	9018	2.387	ug/l #	88
29) Tetrahydrofuran	5.17	42	3084	1.256	ug/l #	30
36) 1,1-Dichloropropene	5.67	75	32206	4.696	ug/l #	49
38) Carbon Tetrachloride	5.66	117	46677	6.765	ug/l #	14
43) Isopropyl Acetate	6.46	43	30484	2.629	ug/l	95
48) Methyl methacrylate	7.68	41	17546	2.946	ug/l #	11
49) 1,4-Dioxane	7.76	88	164	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	166328	22.318	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	81387	10.561	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	18523	2.100	ug/l #	45
59) 2-Hexanone	9.54	43	242238	42.652	ug/l #	51
74) N-amyl acetate	10.69	43	24782	2.305	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	166136	21.650	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	6346	0.284	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	166136	64.175	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	5462	0.243	ug/l	91
90) Hexachloroethane	12.58	117	247	2.969	ug/l #	6
95) Naphthalene	13.83	128	30857	1.131	ug/l	95

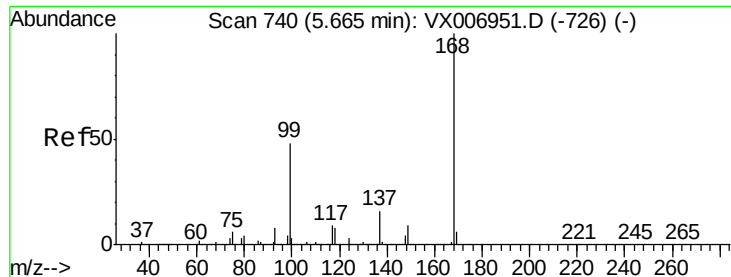
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

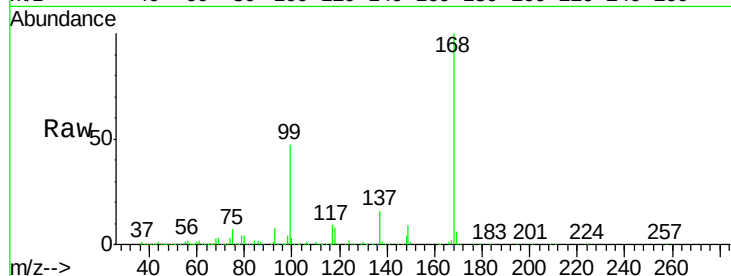
TP-8

Tot Ion:168 Resp: 511082

Ion Ratio Lower Upper

168 100

99 47.4 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

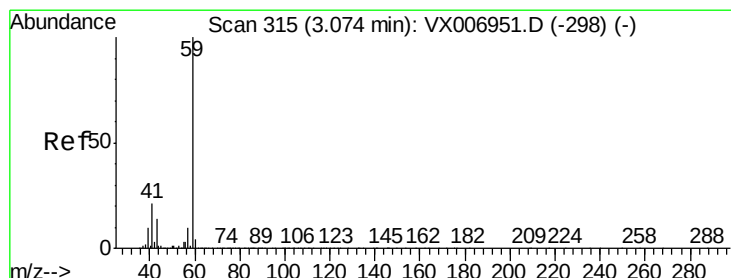
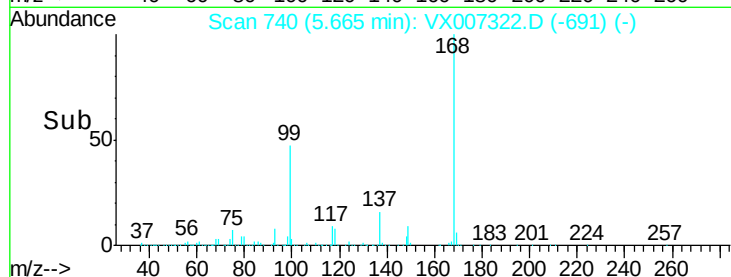
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 2.952 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.02 min

Lab File: VX007322.D

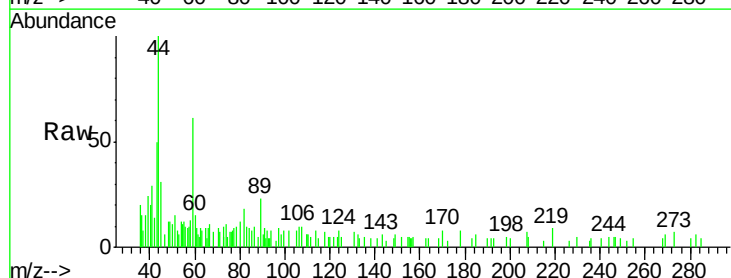
Acq: 30 Jan 2019 18:31

Tgt Ion: 59 Resp: 3720

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.05

1000

800

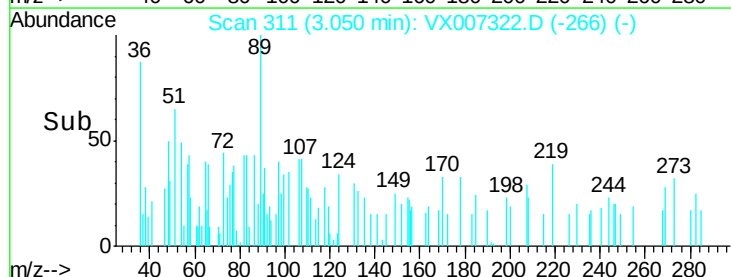
600

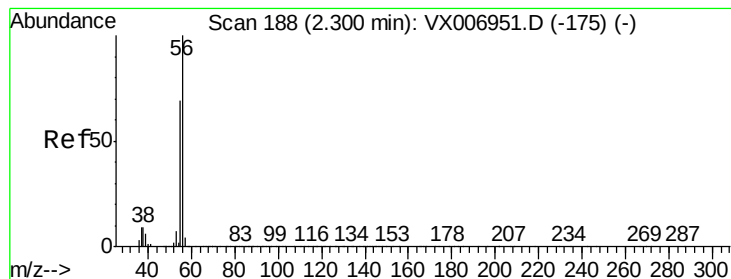
400

200

0

Time--> 2.90 3.00 3.10





#13

Acrolein

Concen: 3.257 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

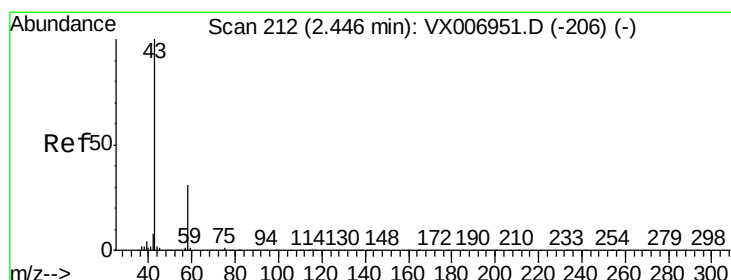
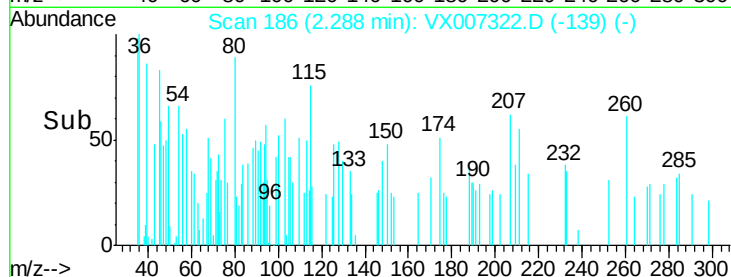
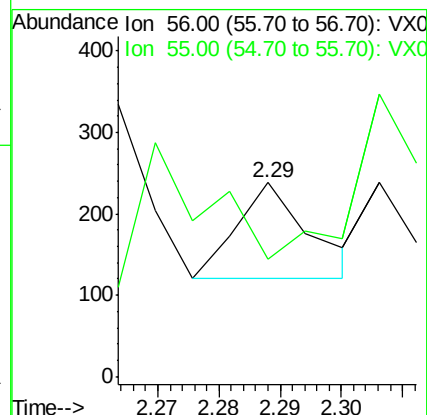
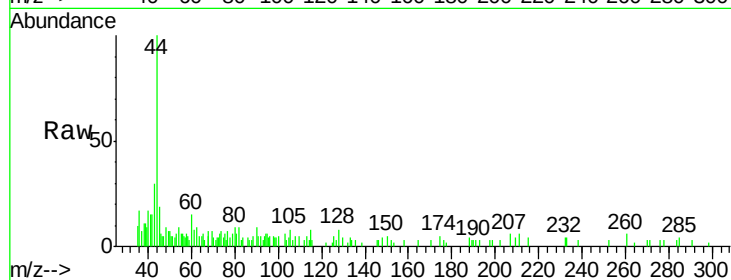
TP-8

Tot Ion: 56 Resp: 95

Ion Ratio Lower Upper

56 100

55 151.6 58.2 87.4#



#16

Acetone

Concen: 14.120 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007322.D

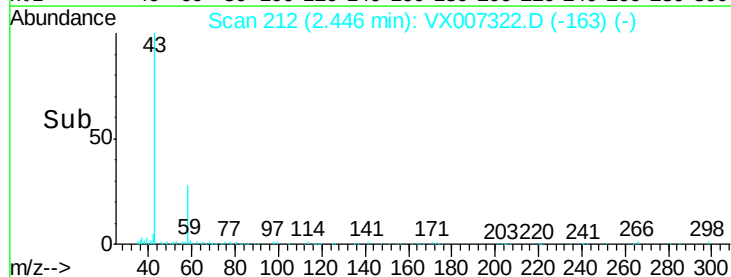
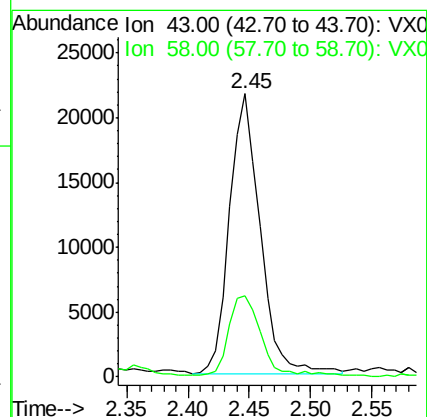
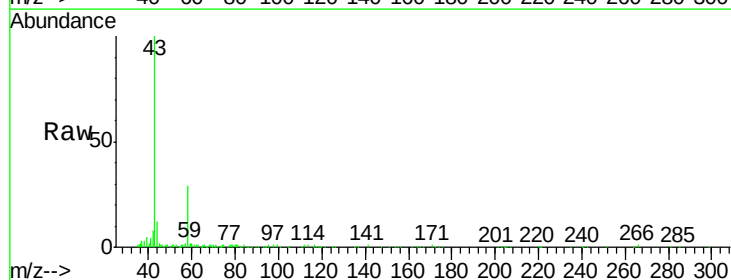
Acq: 30 Jan 2019 18:31

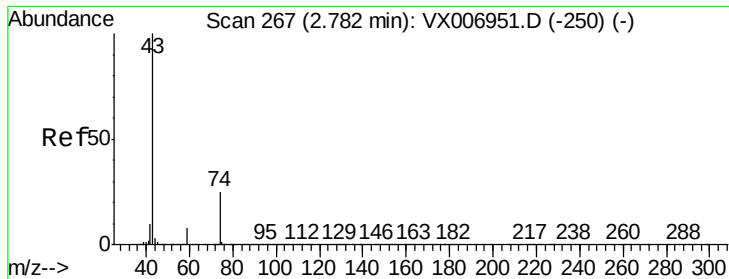
Tgt Ion: 43 Resp: 37284

Ion Ratio Lower Upper

43 100

58 28.3 25.0 37.6

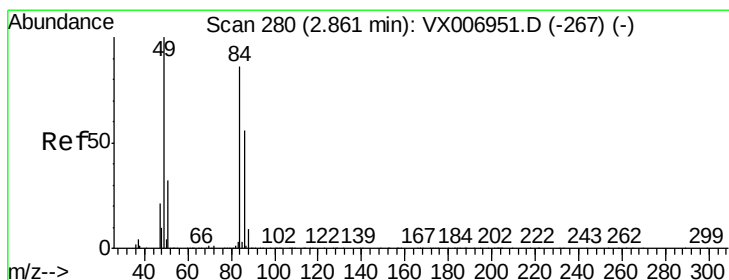
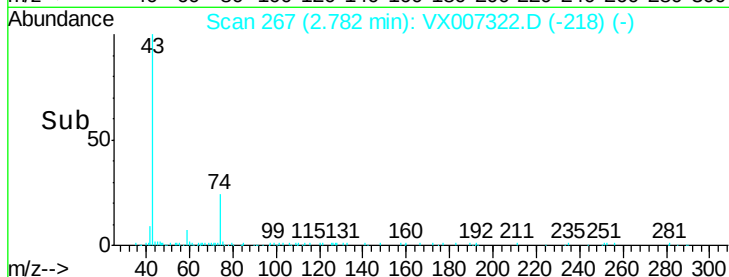
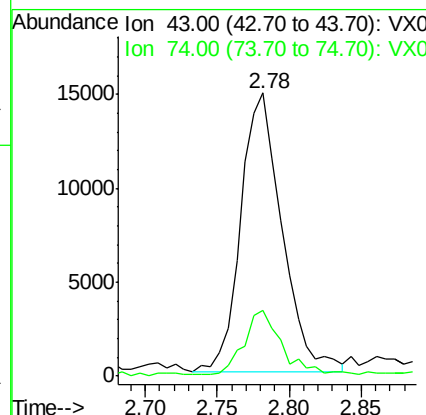
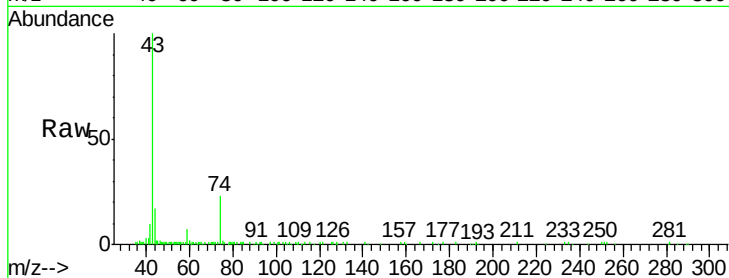




#18
Methyl Acetate
Concen: 3.870 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

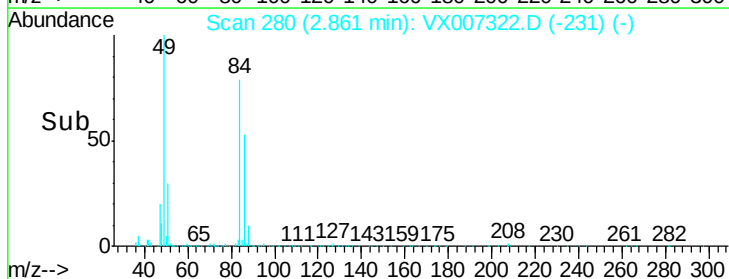
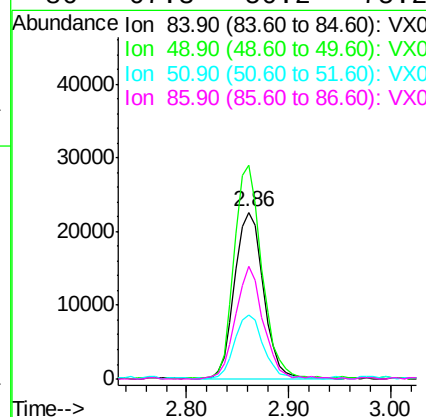
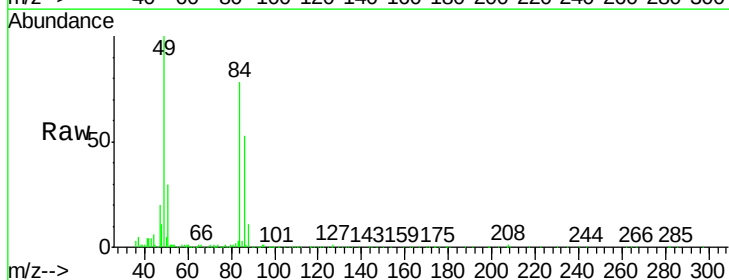
Instrument :
MSVOA_X
ClientSampleId :
TP-8

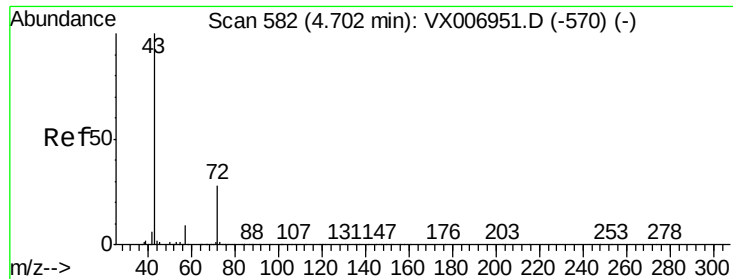
Tot Ion: 43 Resp: 29596
Ion Ratio Lower Upper
43 100
74 21.2 18.6 28.0



#20
Methylene Chloride
Concen: 8.413 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

Tgt Ion: 84 Resp: 44619
Ion Ratio Lower Upper
84 100
49 126.8 91.8 137.6
51 38.0 28.5 42.7
86 67.3 50.2 75.2





#25

2-Butanone

Concen: 2.387 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampled :

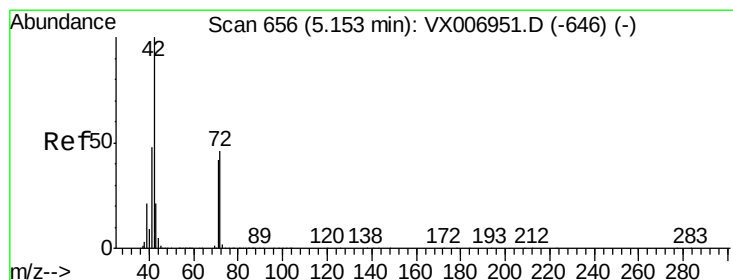
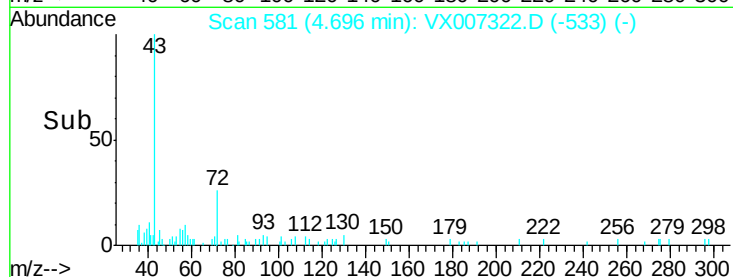
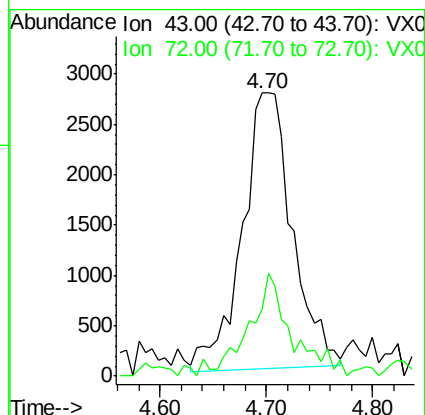
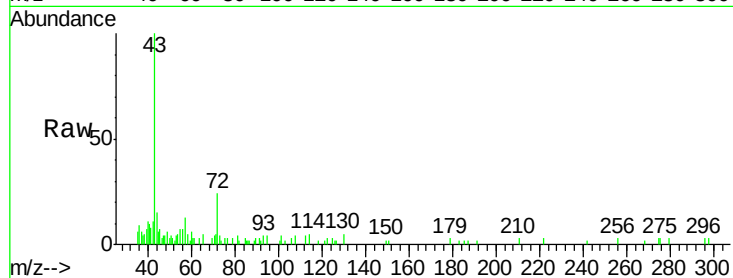
TP-8

Tot Ion: 43 Resp: 9018

Ion Ratio Lower Upper

43 100

72 21.7 22.4 33.6#



#29

Tetrahydrofuran

Concen: 1.256 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

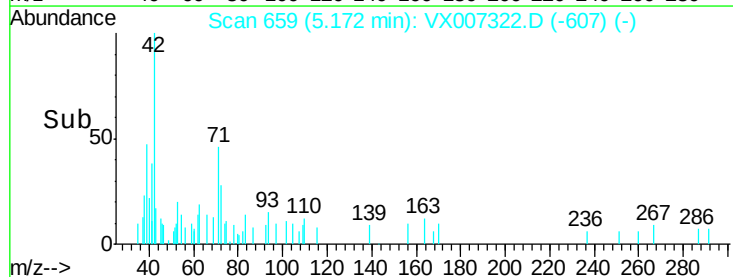
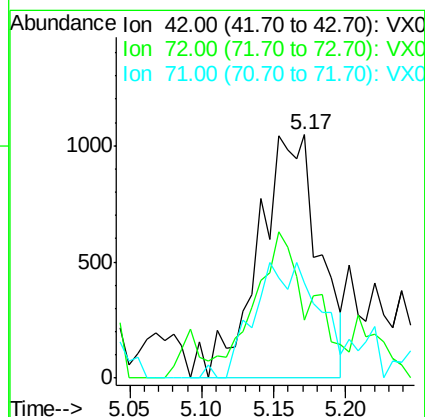
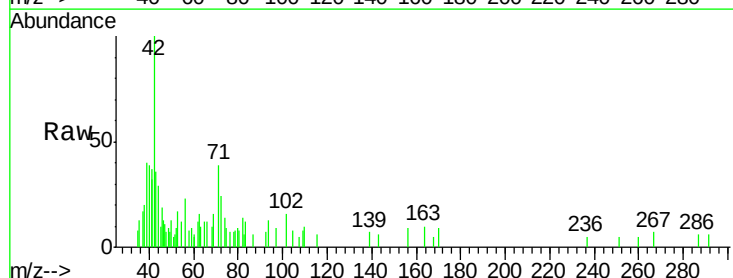
Tgt Ion: 42 Resp: 3084

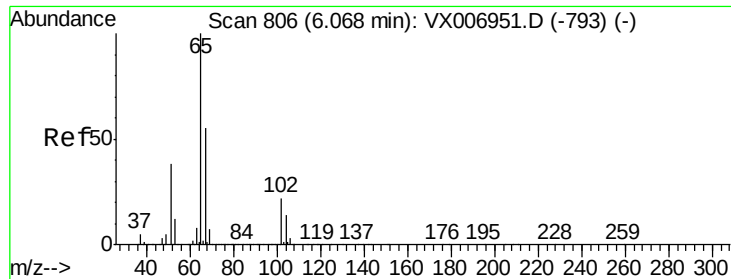
Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

71 0.0 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 51.967 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

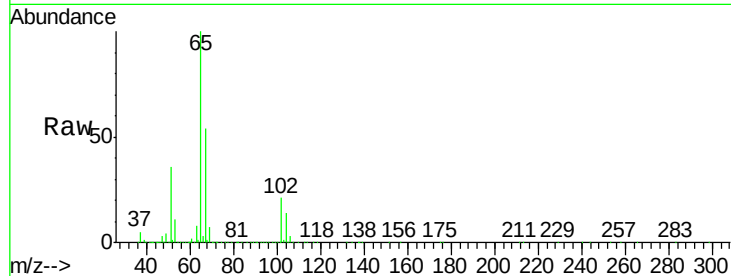
TP-8

Tot Ion: 65 Resp: 277566

Ion Ratio Lower Upper

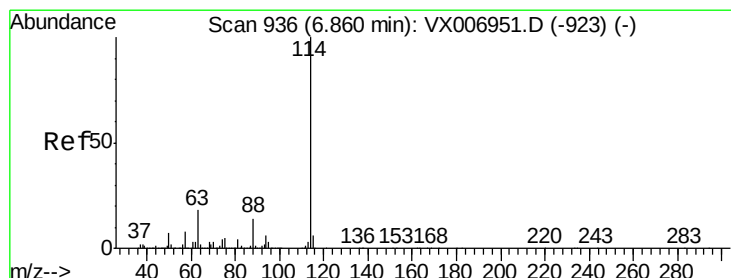
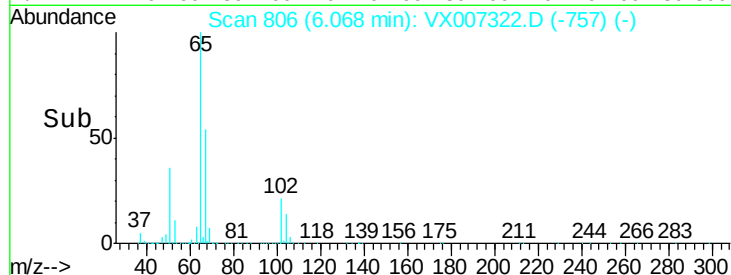
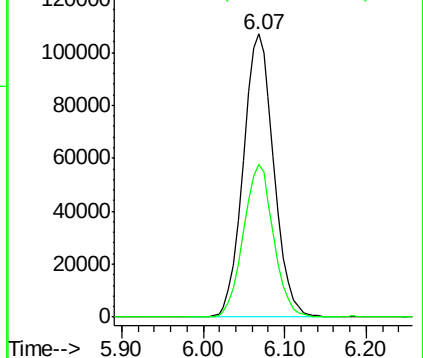
65 100

67 53.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

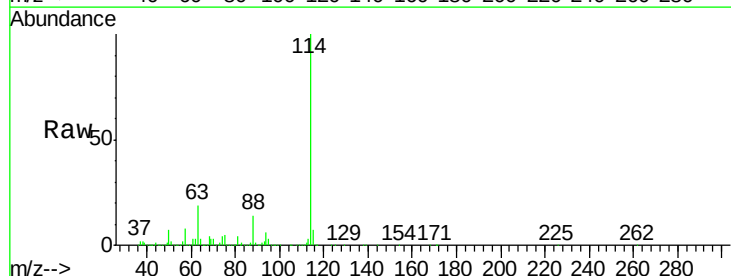
Tgt Ion: 114 Resp: 788751

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

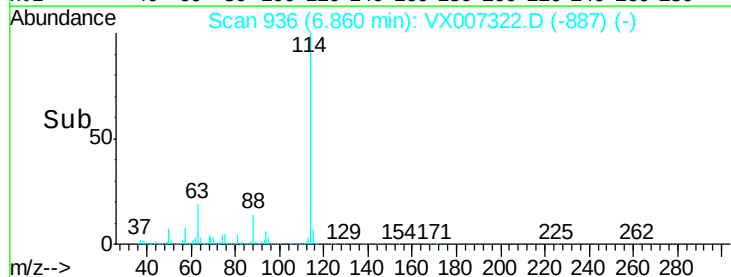
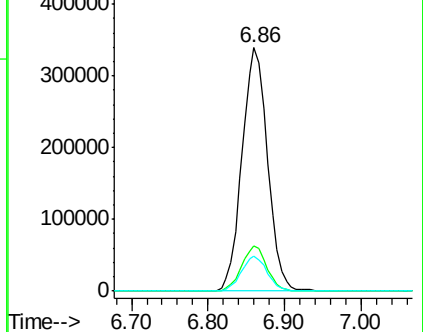
88 14.2 0.0 28.8

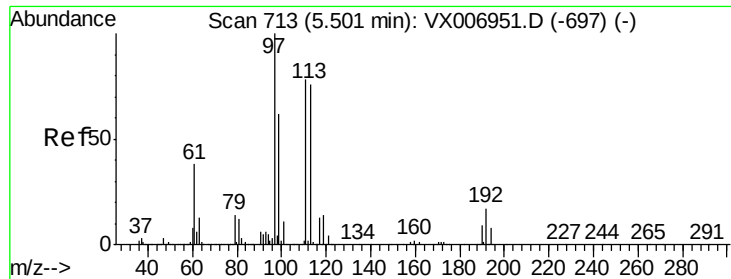


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.617 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

TP-8

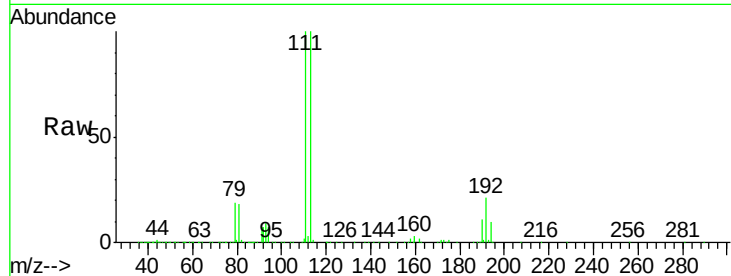
Tot Ion:113 Resp: 250619

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

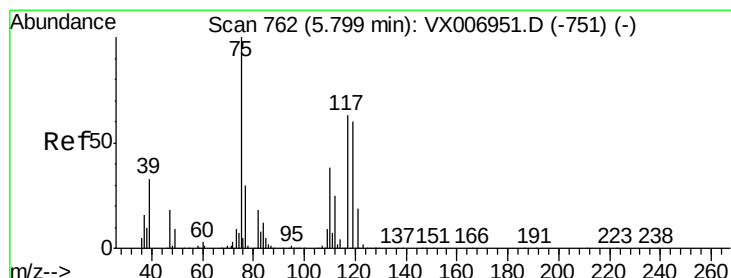
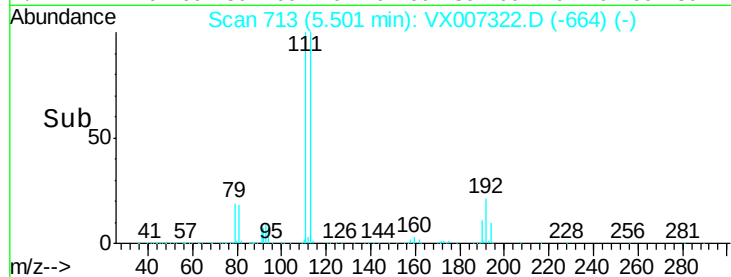
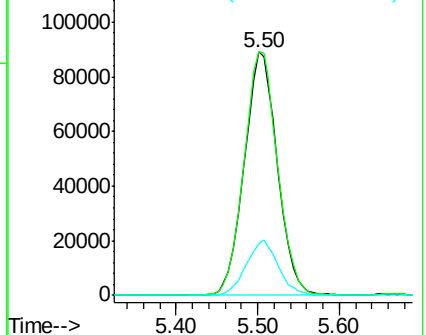
192 22.0 16.7 25.1



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: 4.696 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

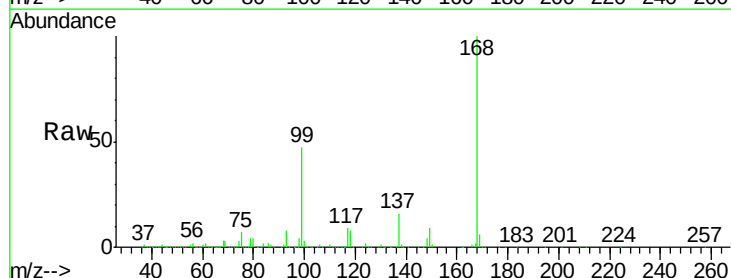
Tgt Ion: 75 Resp: 32206

Ion Ratio Lower Upper

75 100

110 10.6 20.2 60.5#

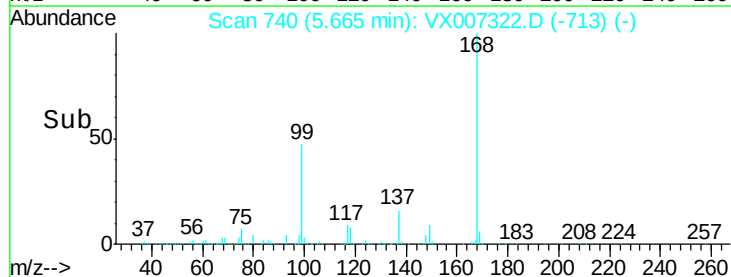
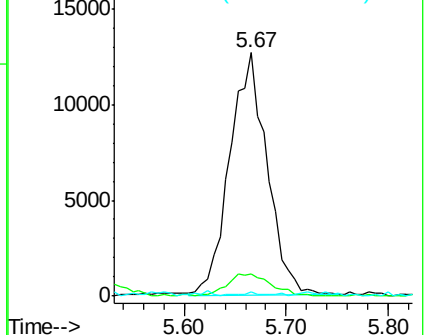
77 0.4 24.8 37.2#

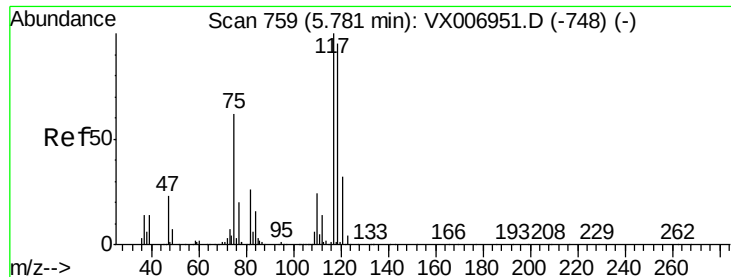


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.765 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampled :

TP-8

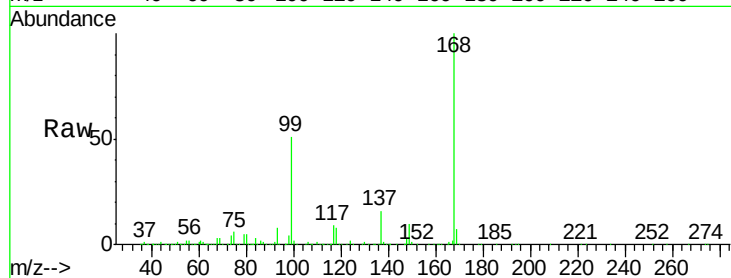
Tot Ion:117 Resp: 46677

Ion Ratio Lower Upper

117 100

119 4.5 79.4 119.2#

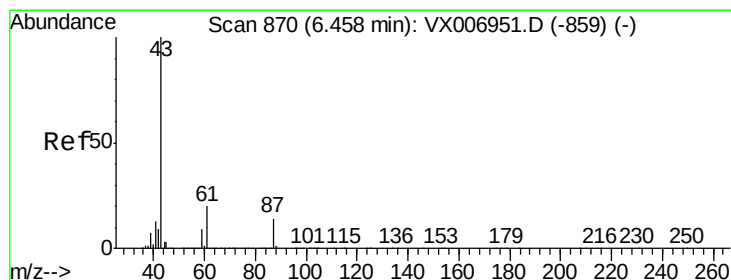
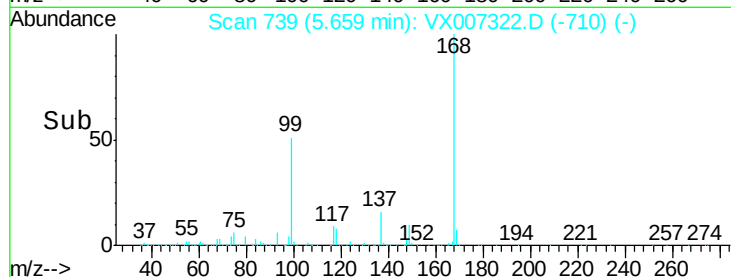
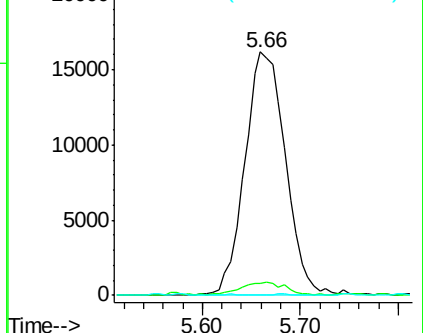
121 0.0 24.0 36.0#



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: 2.629 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

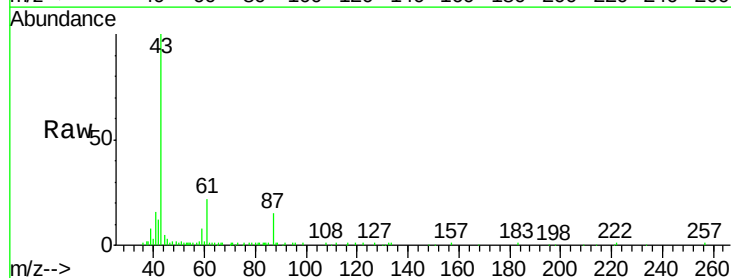
Tgt Ion: 43 Resp: 30484

Ion Ratio Lower Upper

43 100

61 24.5 16.8 25.2

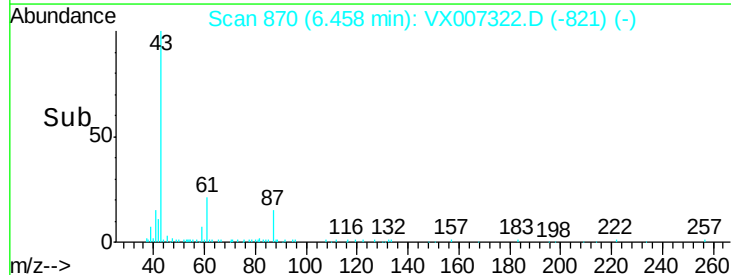
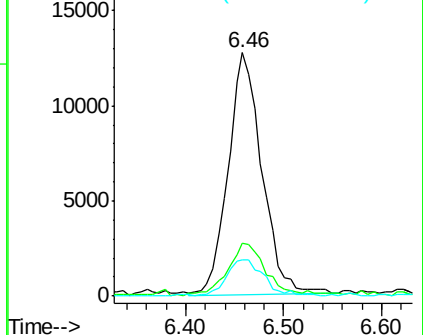
87 15.7 12.4 18.6

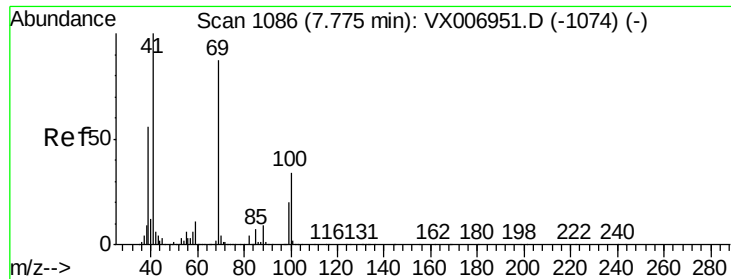


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

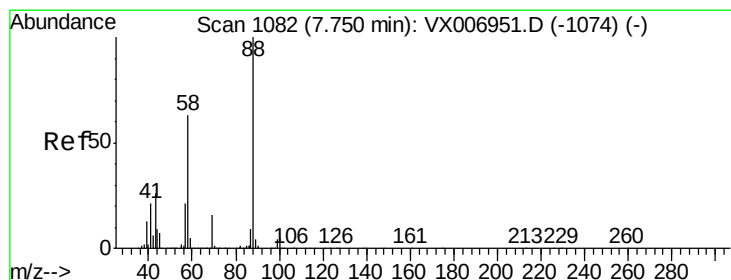
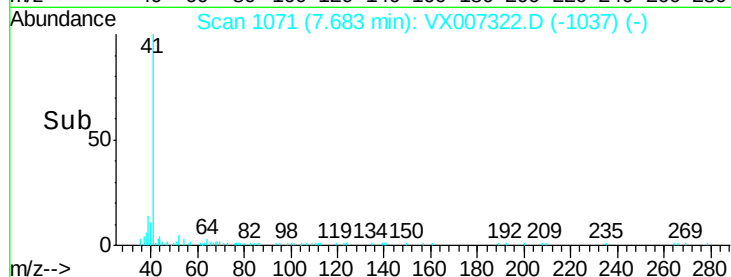
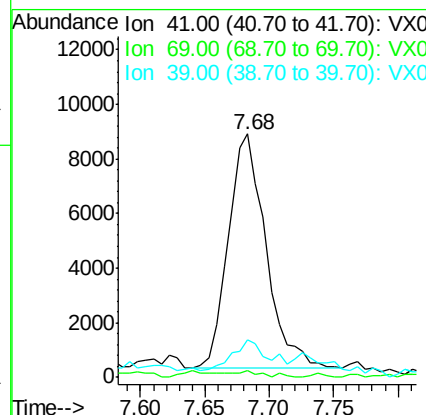
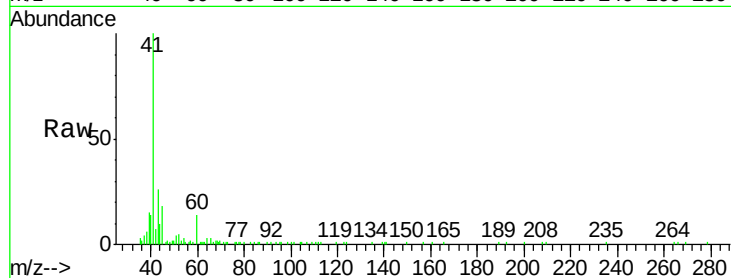




#48
Methyl methacrylate
Concen: 2.946 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

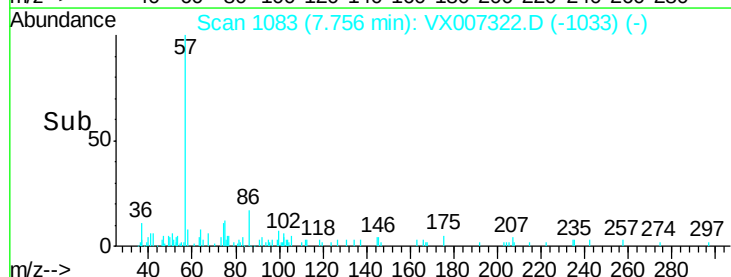
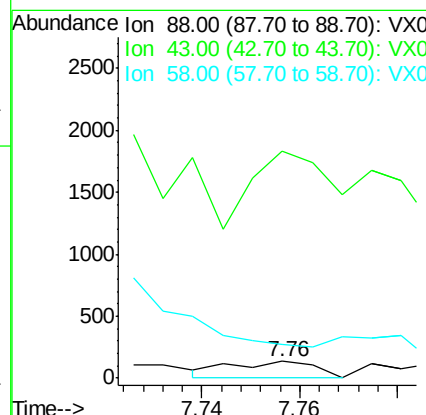
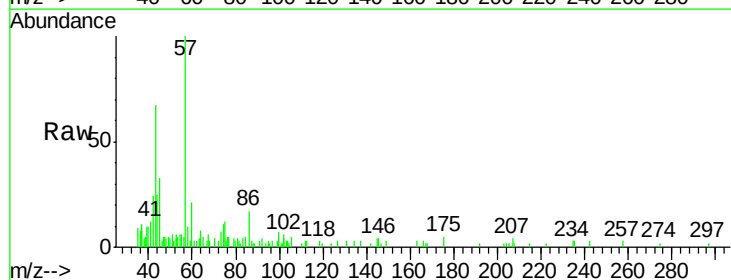
Instrument :
MSVOA_X
ClientSampleId :
TP-8

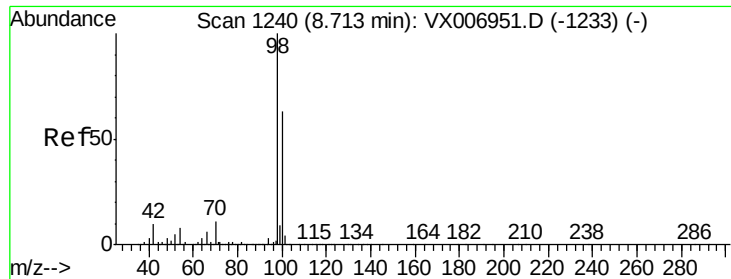
Tot Ion: 41 Resp: 17546
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

Tgt Ion: 88 Resp: 164
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 0.0 51.0 76.4#

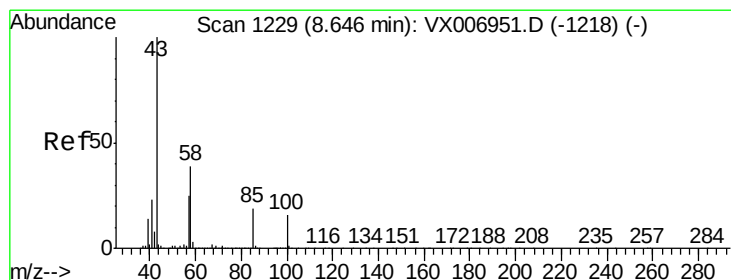
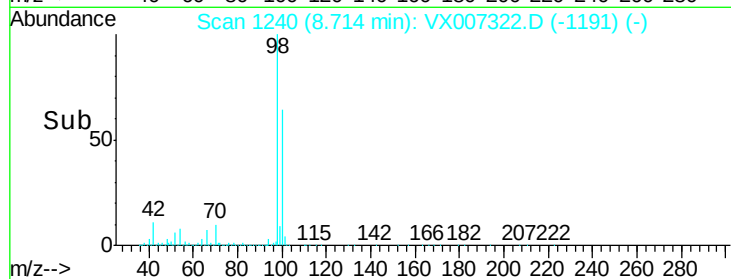
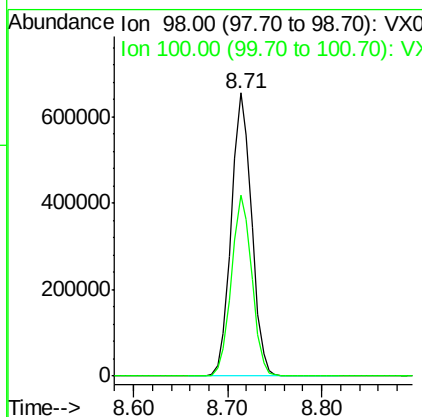
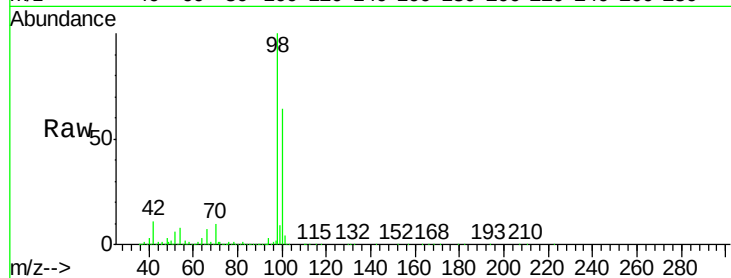




#50
Toluene-d8
Concen: 53.266 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

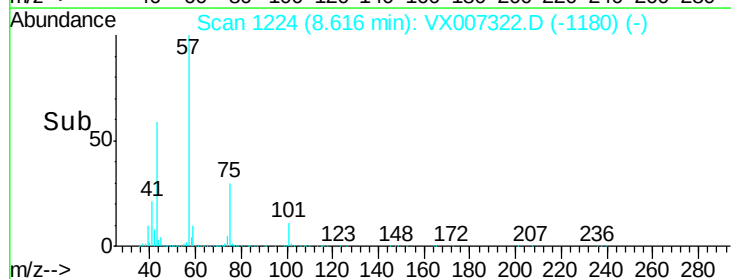
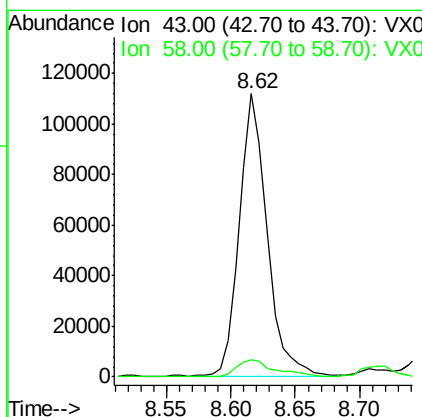
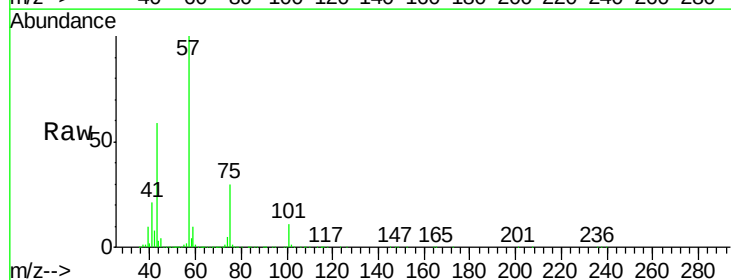
Instrument :
MSVOA_X
ClientSampled :
TP-8

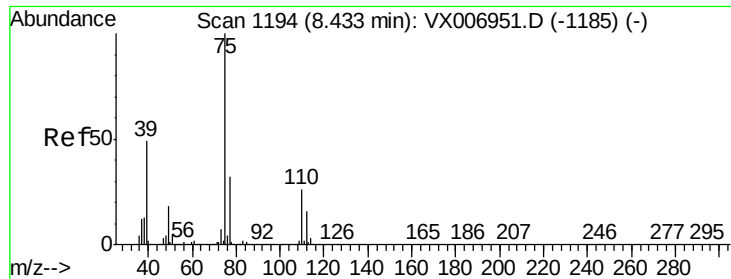
Tot Ion: 98 Resp: 984817
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 22.318 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

Tgt Ion: 43 Resp: 166328
Ion Ratio Lower Upper
43 100
58 8.5 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 10.561 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampled :

TP-8

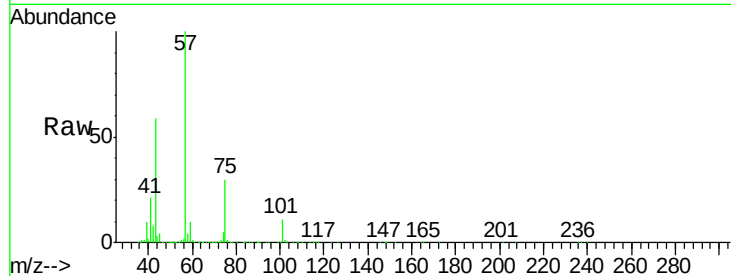
Tot Ion: 75 Resp: 81387

Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

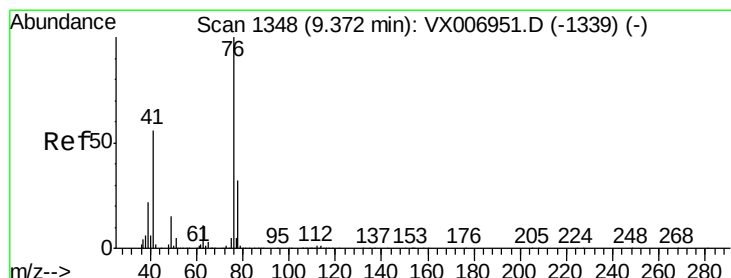
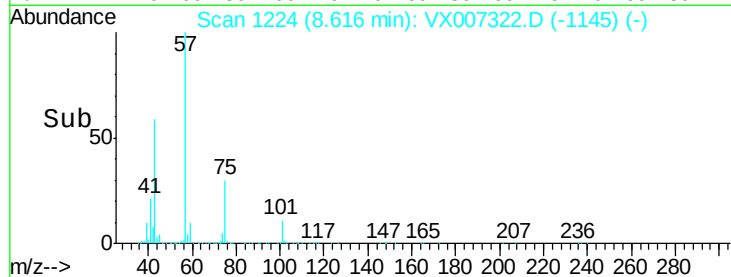
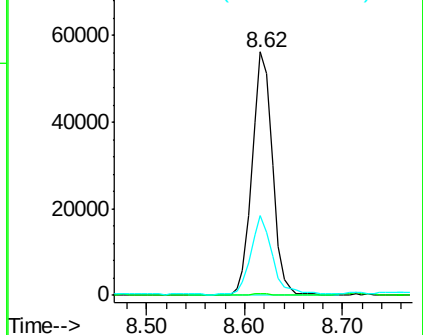
39 32.2 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.100 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007322.D

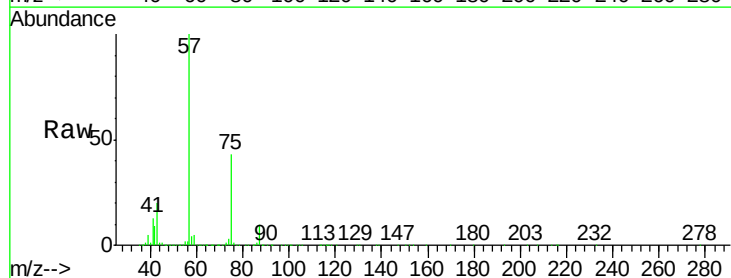
Acq: 30 Jan 2019 18:31

Tgt Ion: 76 Resp: 18523

Ion Ratio Lower Upper

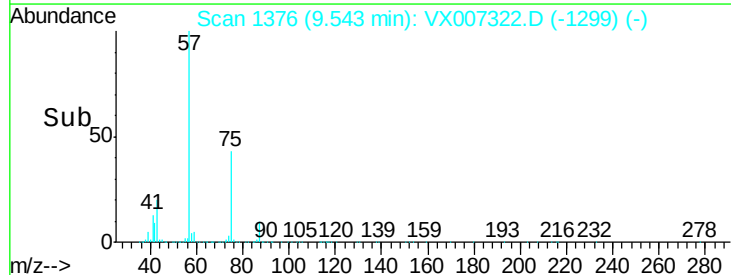
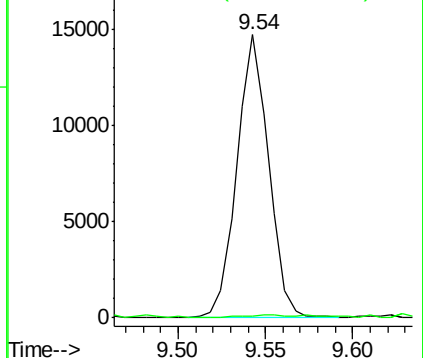
76 100

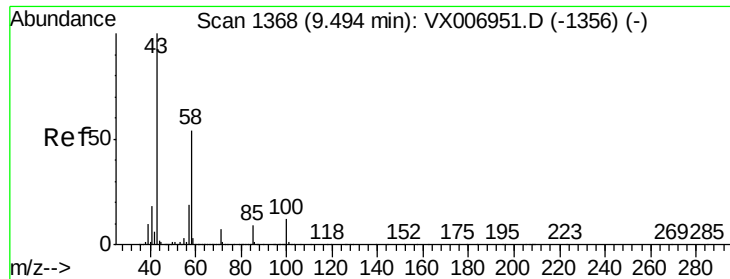
78 1.7 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 42.652 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampled :

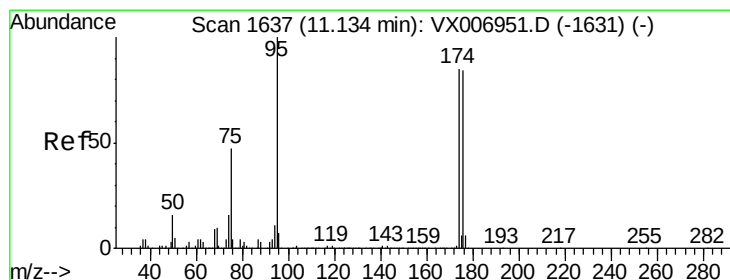
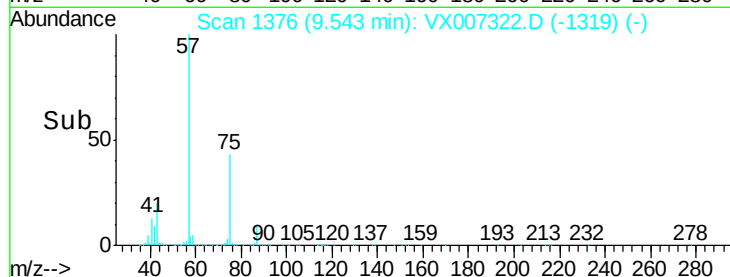
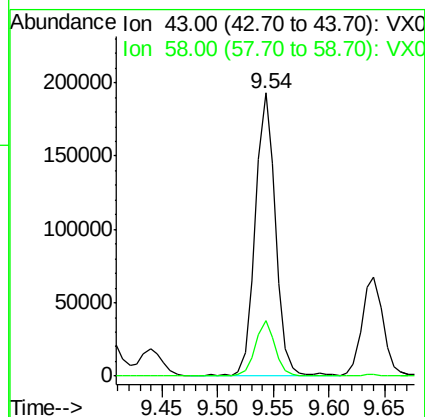
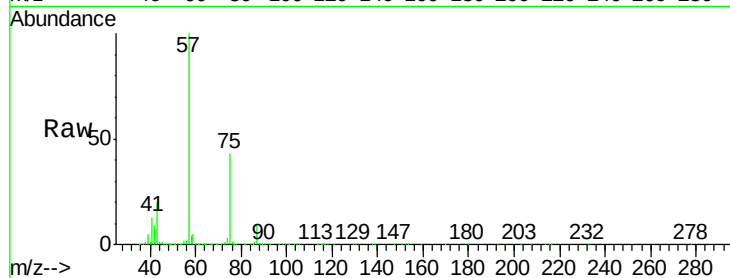
TP-8

Tot Ion: 43 Resp: 242238

Ion Ratio Lower Upper

43 100

58 19.6 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 53.412 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

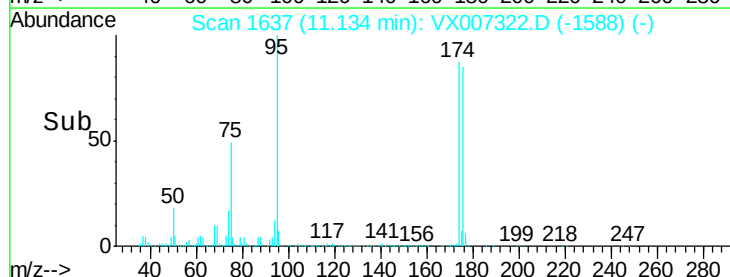
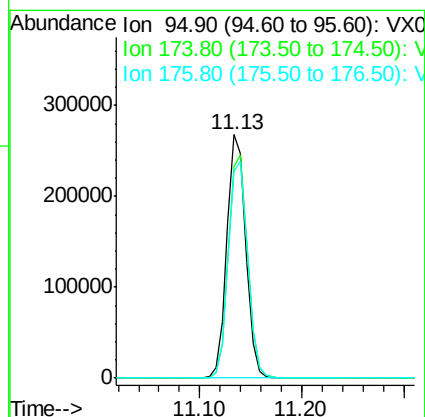
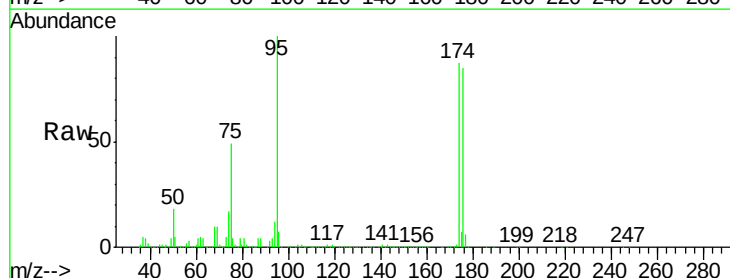
Tgt Ion: 95 Resp: 344272

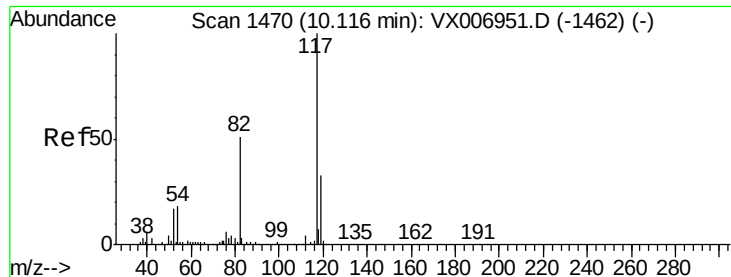
Ion Ratio Lower Upper

95 100

174 93.1 0.0 182.2

176 90.9 0.0 178.8

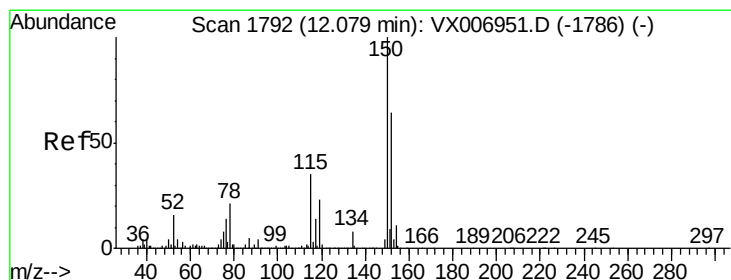
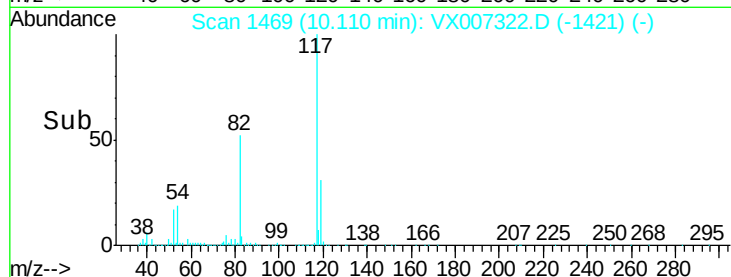
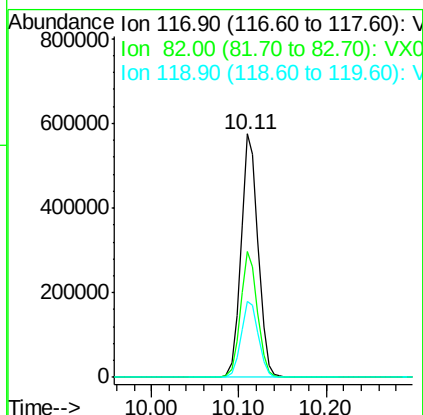
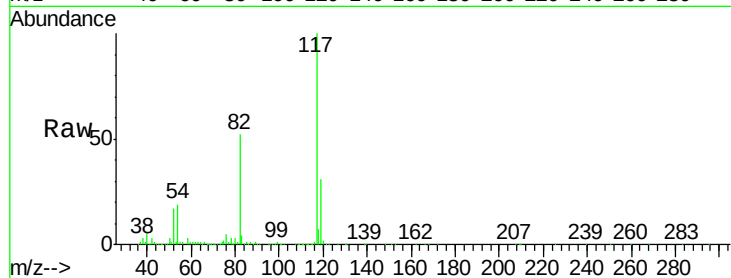




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

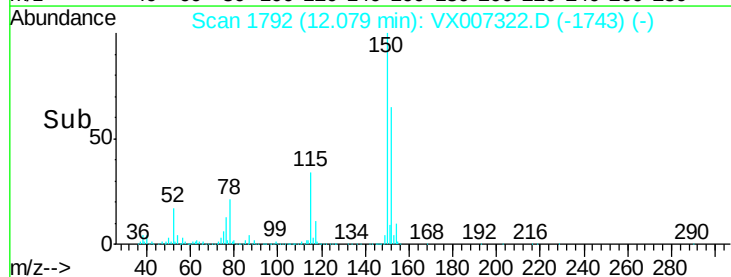
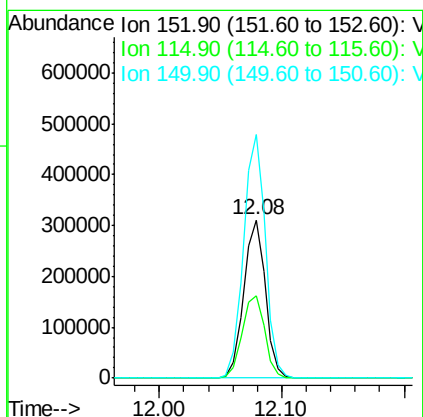
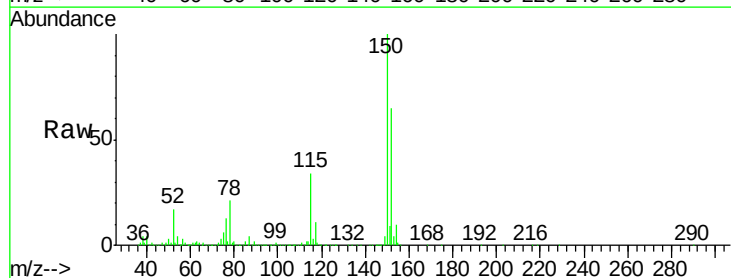
Instrument :
MSVOA_X
ClientSampleId :
TP-8

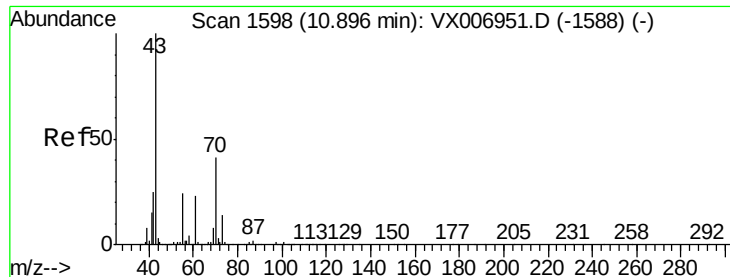
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.0	61.6
119	31.1	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	39.1	117.2
150	155.4	0.0	344.8





#74

N-amvl acetate

Concen: 2.305 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

TP-8

Tot Ion: 43 Resp: 24782

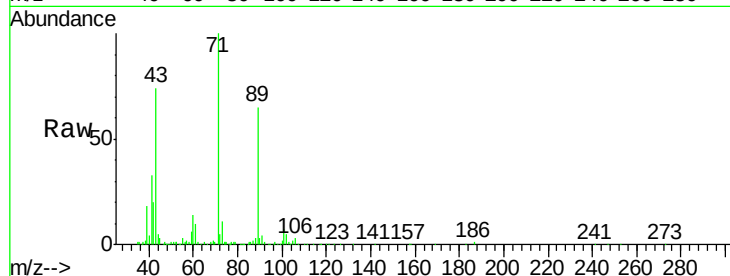
Ion Ratio Lower Upper

43 100

70 3.0 35.8 53.8#

55 4.2 19.4 29.0#

61 13.6 20.1 30.1#

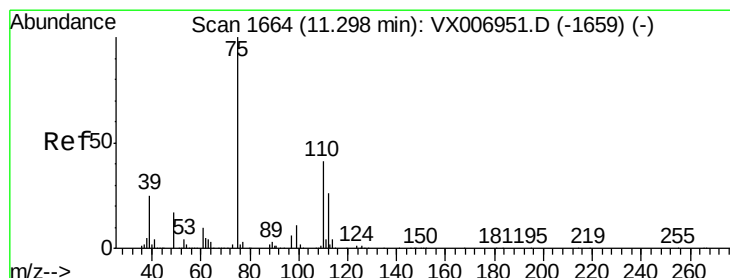
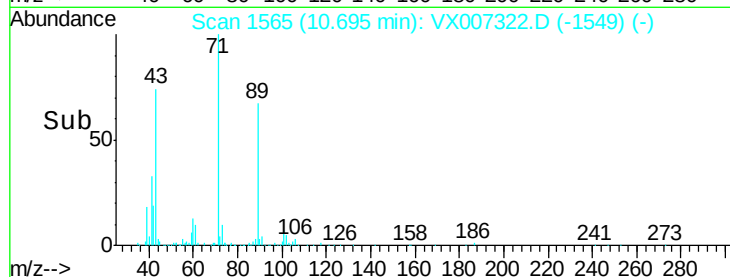
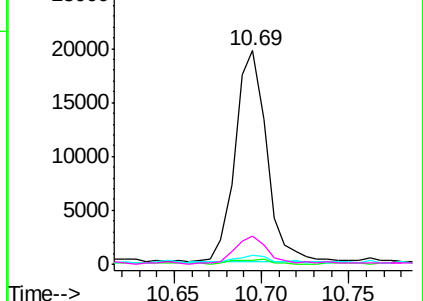


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.650 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007322.D

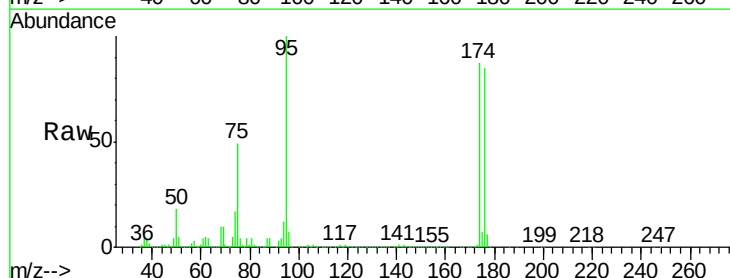
Acq: 30 Jan 2019 18:31

Tgt Ion: 75 Resp: 166136

Ion Ratio Lower Upper

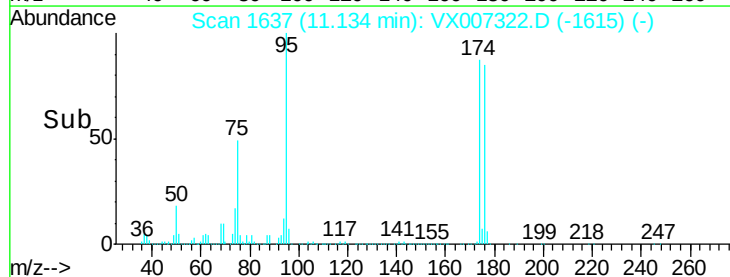
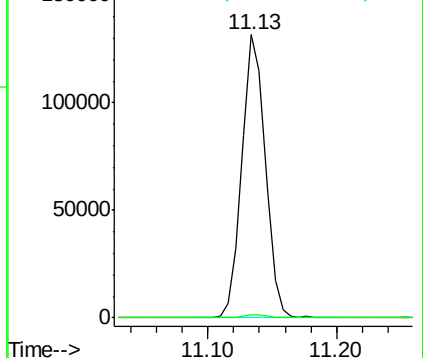
75 100

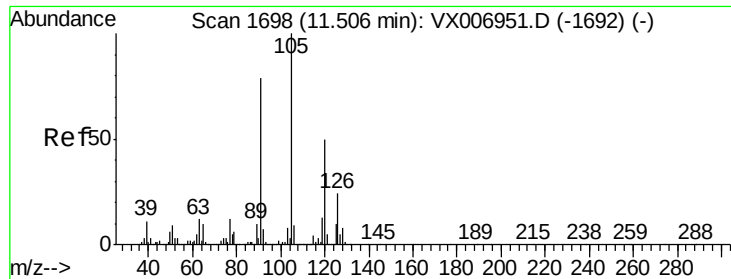
77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.284 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

Instrument :

MSVOA_X

ClientSampled :

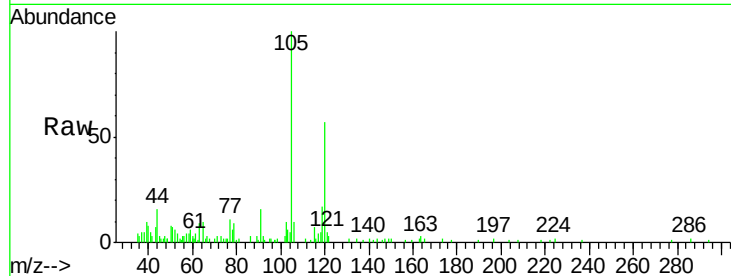
TP-8

Tot Ion:105 Resp: 6346

Ion Ratio Lower Upper

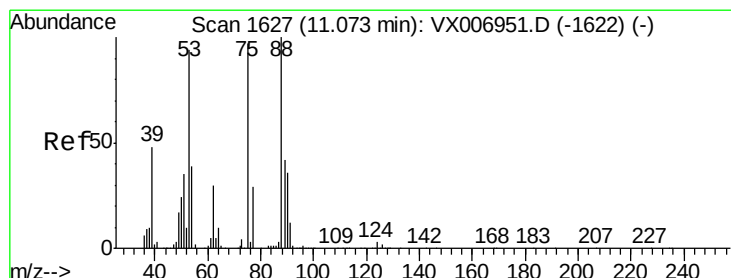
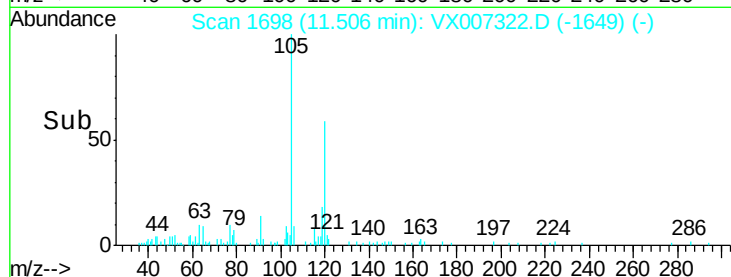
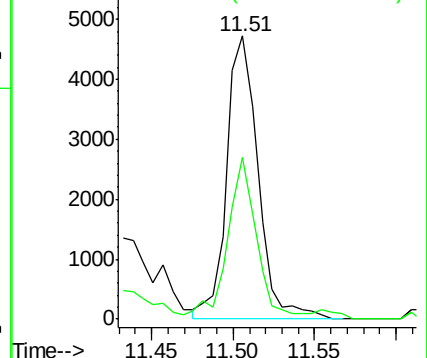
105 100

120 53.3 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.175 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007322.D

Acq: 30 Jan 2019 18:31

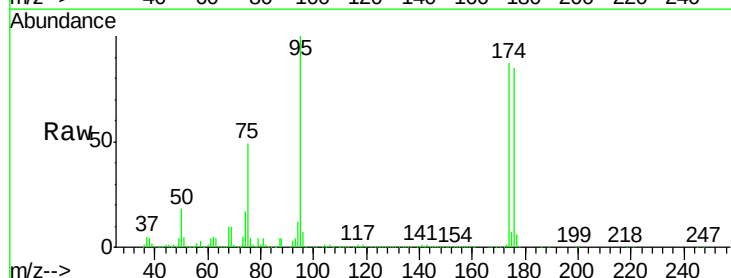
Tgt Ion: 75 Resp: 166136

Ion Ratio Lower Upper

75 100

53 0.3 79.7 119.5#

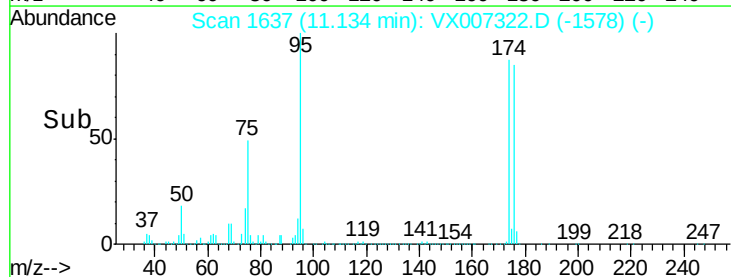
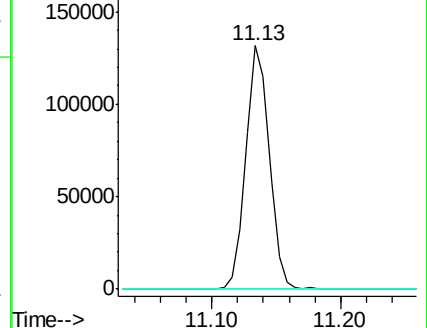
89 0.2 38.0 57.0#

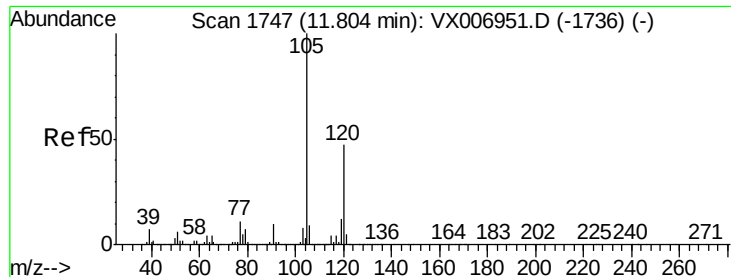


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

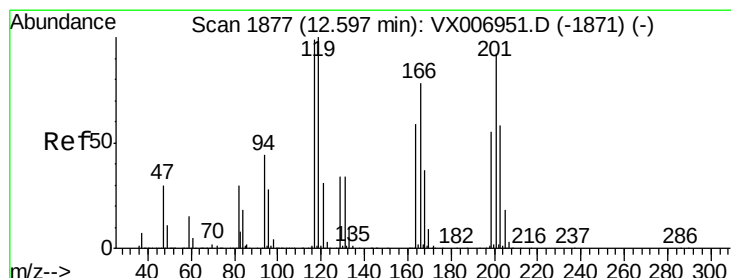
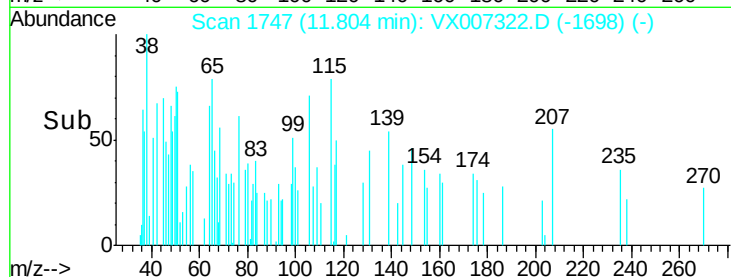
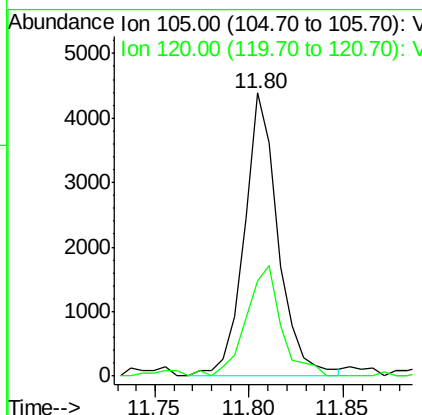
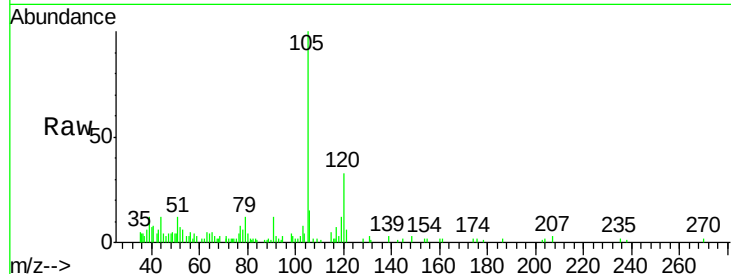




#84
 1,2,4-Trimethylbenzene
 Concen: 0.243 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX007322.D
 Acq: 30 Jan 2019 18:31

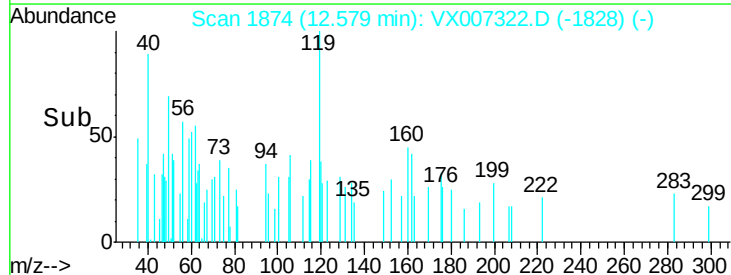
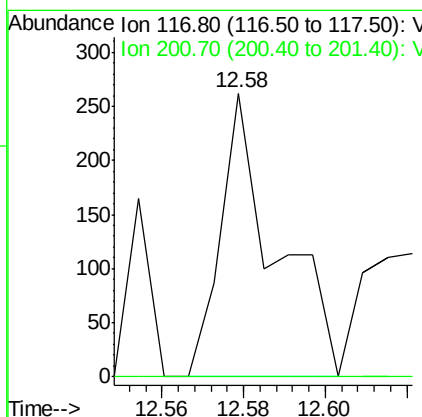
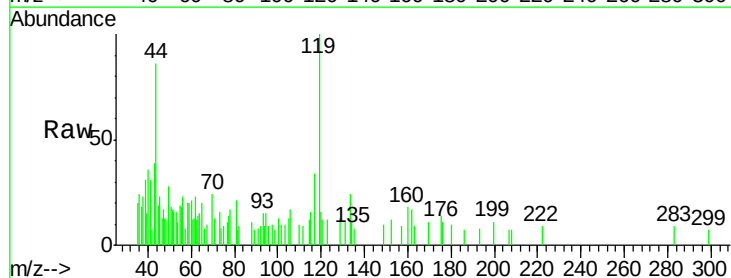
Instrument :
 MSVOA_X
 ClientSampled :
 TP-8

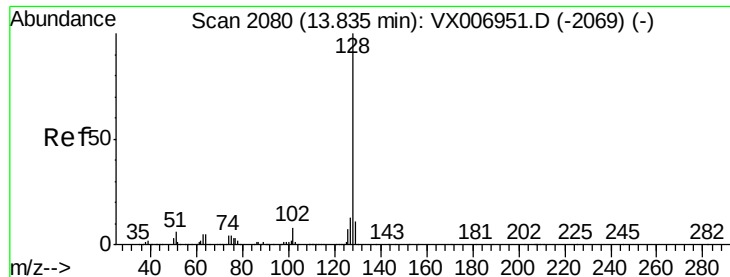
Tot Ion:105 Resp: 5462
 Ion Ratio Lower Upper
 105 100
 120 40.7 23.2 69.6



#90
 Hexachloroethane
 Concen: 2.969 ug/l
 RT: 12.58 min Scan# 1874
 Delta R.T. -0.02 min
 Lab File: VX007322.D
 Acq: 30 Jan 2019 18:31

Tgt Ion:117 Resp: 247
 Ion Ratio Lower Upper
 117 100
 201 0.0 42.9 128.7#

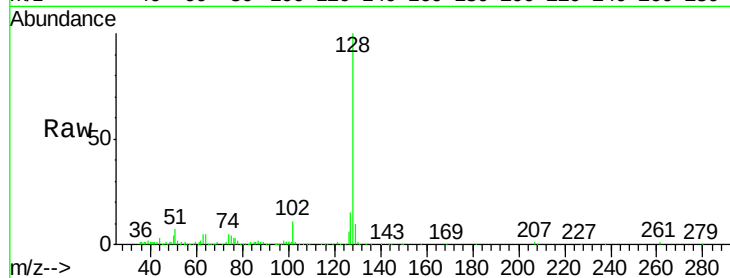




#95
Naphthalene
Concen: 1.131 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX007322.D
Acq: 30 Jan 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :
TP-8

Tot Ion:128 Resp: 30857
Ion Ratio Lower Upper
128 100
127 15.0 10.1 15.1
129 11.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

