

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062218\
 Data File : VX002840.D
 Acq On : 22 Jun 2018 19:33
 Operator : JC/MD
 Sample : J3662-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2TB03-180618

Quant Time: Jun 23 00:26:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	236545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	334224	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313252	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174210	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	164247	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	
35) Dibromofluoromethane	5.51	113	128490	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
50) Toluene-d8	8.72	98	475485	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	
62) 4-Bromofluorobenzene	11.14	95	165611	43.15	ug/l	0.00
Spiked Amount			Recovery	=	86.30%	

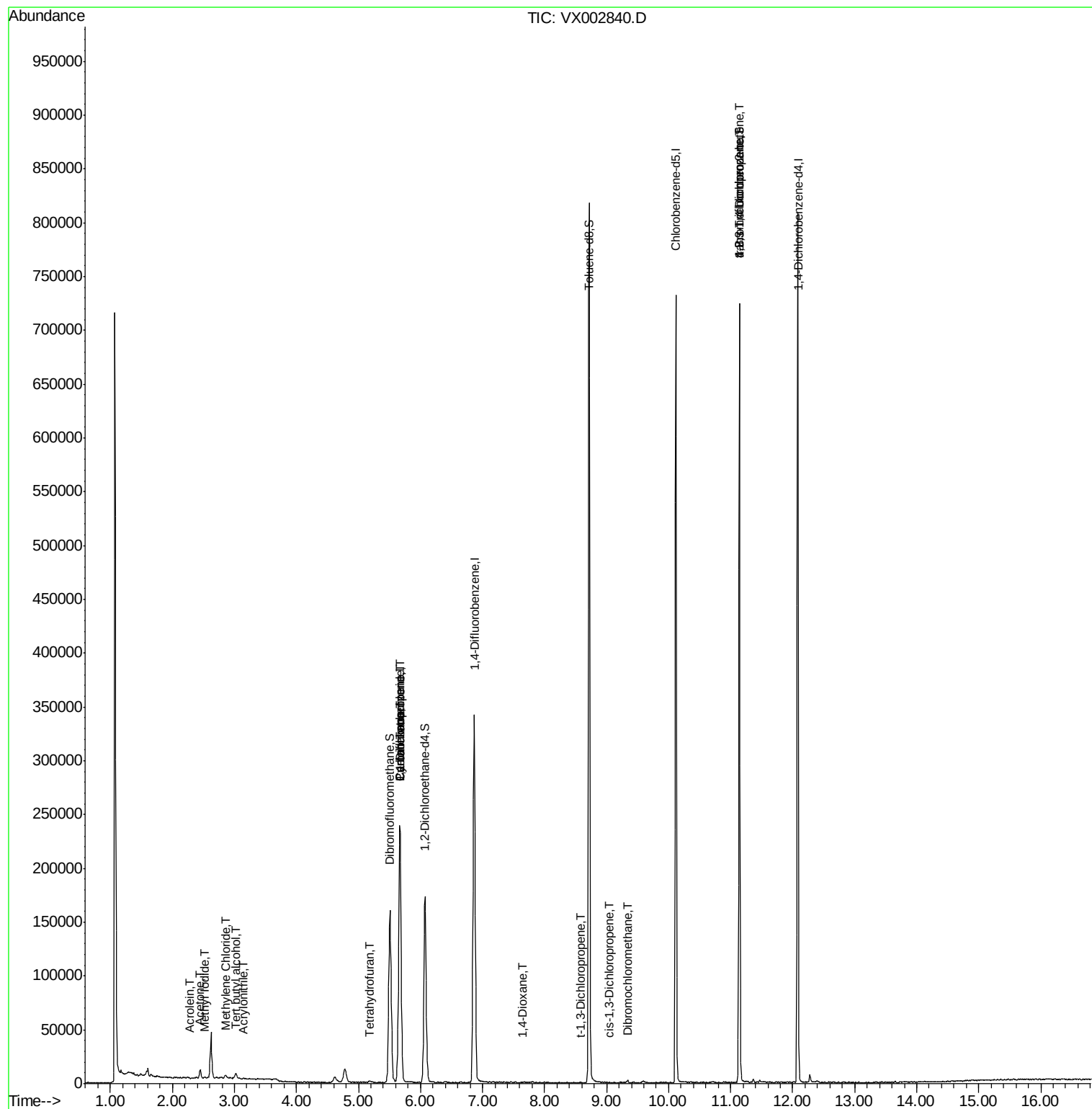
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.52	142	1071	5.43	ug/l #	71
11) Tert butyl alcohol	3.02	59	2801	3.77	ug/l #	73
13) Acrolein	2.29	56	268	7.61	ug/l #	77
15) Acrylonitrile	3.15	53	463	0.29	ug/l #	64
16) Acetone	2.45	43	8757	5.52	ug/l	100
20) Methylene Chloride	2.86	84	1262	0.39	ug/l #	87
29) Tetrahydrofuran	5.18	42	1255	0.92	ug/l #	83
31) Cyclohexane	5.67	56	5244	1.24	ug/l #	20
36) 1,1-Dichloropropene	5.67	75	16451	4.63	ug/l #	53
38) Carbon Tetrachloride	5.67	117	21324	6.03	ug/l #	16
49) 1,4-Dioxane	7.65	88	19	0.29	ug/l #	22
53) t-1,3-Dichloropropene	8.58	75	20	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	112	3.24	ug/l #	61
60) Dibromochloromethane	9.34	129	87	3.79	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	88366	26.88	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88366	83.00	ug/l #	7

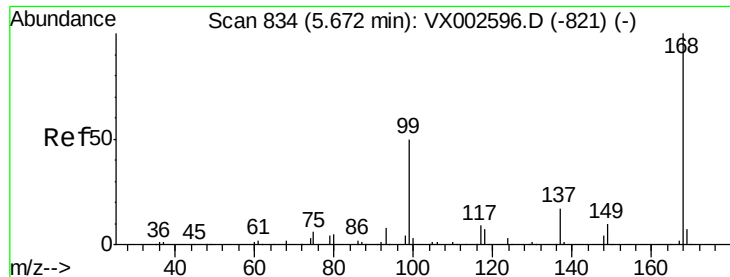
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

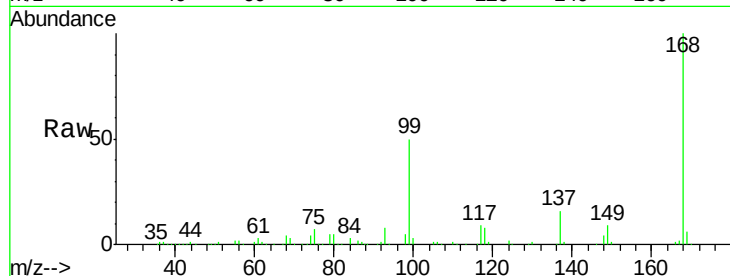
Z2TB03-180618

Tot Ion:168 Resp: 236545

Ion Ratio Lower Upper

168 100

99 50.4 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

80000

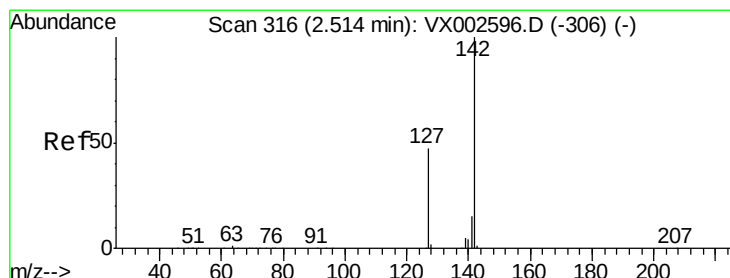
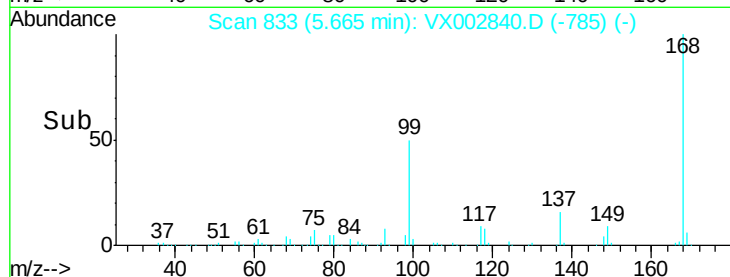
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 5.43 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

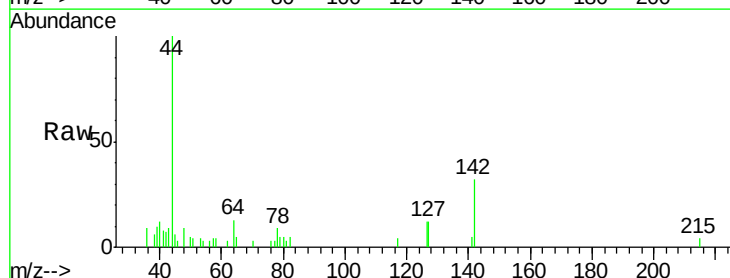
Tgt Ion:142 Resp: 1071

Ion Ratio Lower Upper

142 100

127 70.0 36.6 55.0#

141 14.8 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

2.52

800

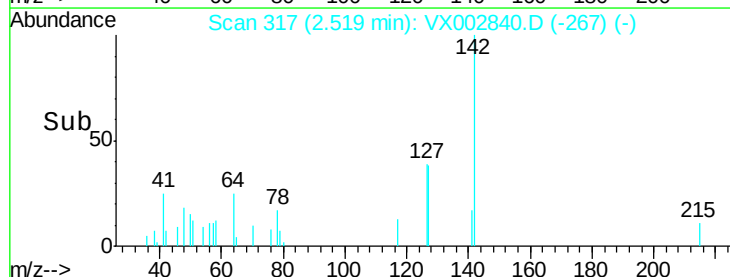
600

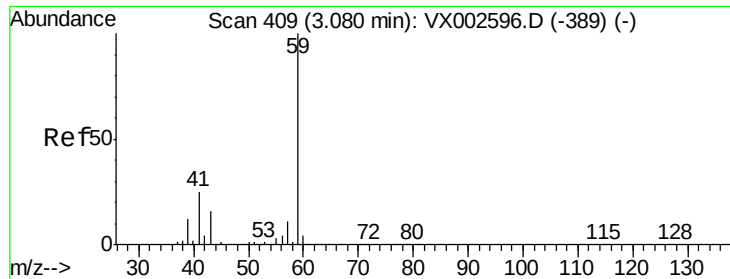
400

200

0

Time--> 2.45 2.50 2.55

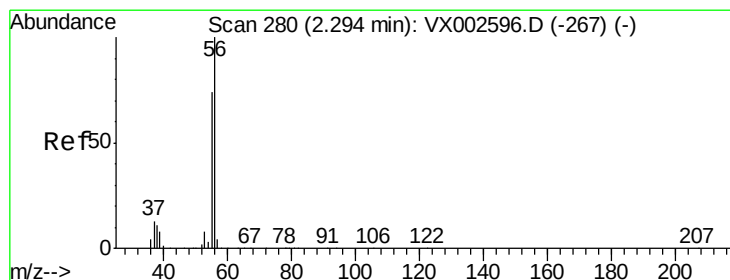
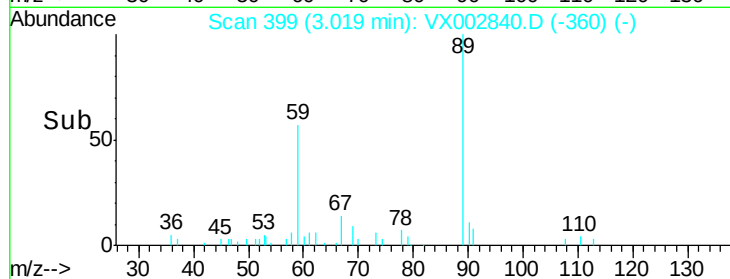
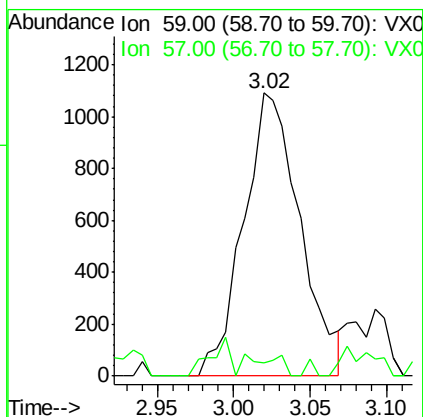
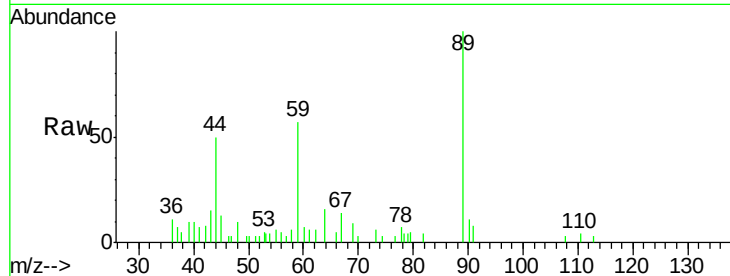




#11
Tert butyl alcohol
Concen: 3.77 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002840.D
Acq: 22 Jun 2018 19:33

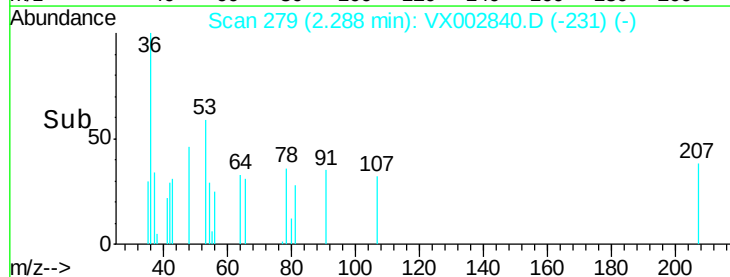
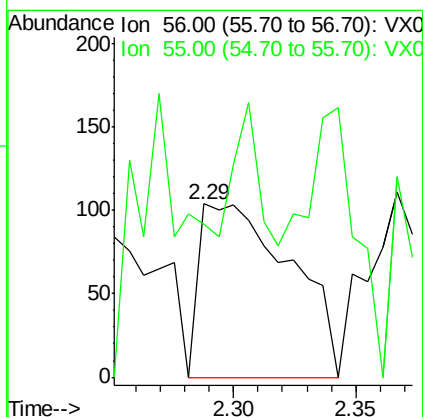
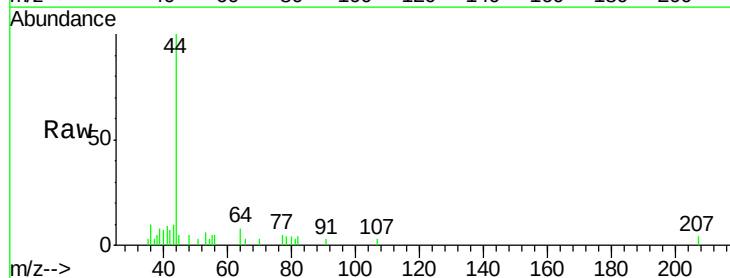
Instrument :
MSVOA_X
ClientSampleId :
Z2TB03-180618

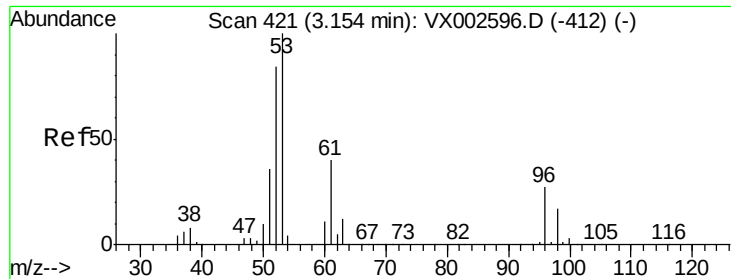
Tot Ion: 59 Resp: 2801
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 7.61 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002840.D
Acq: 22 Jun 2018 19:33

Tgt Ion: 56 Resp: 268
Ion Ratio Lower Upper
56 100
55 89.9 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: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

Z2TB03-180618

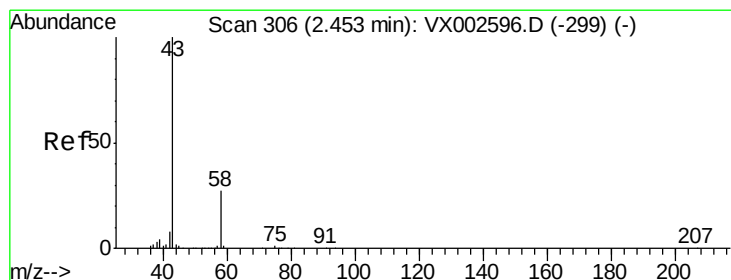
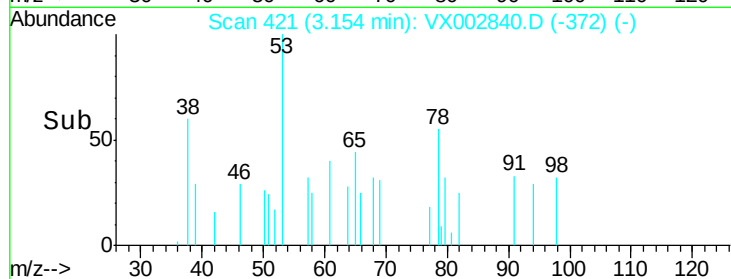
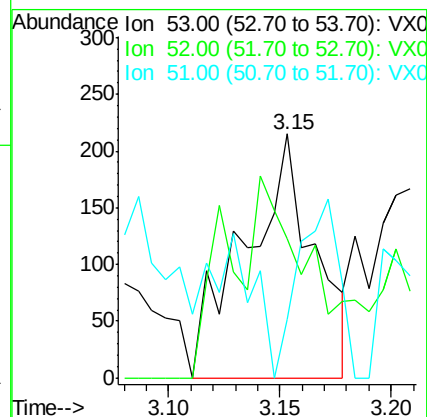
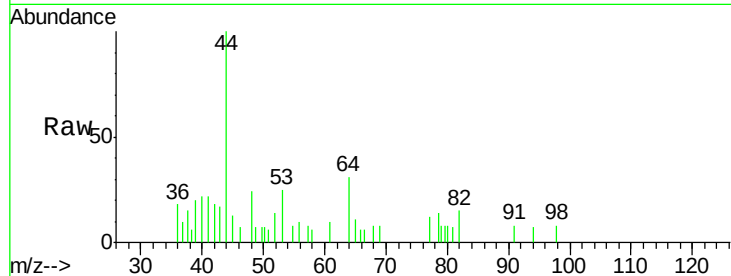
Tot Ion: 53 Resp: 463

Ion Ratio Lower Upper

53 100

52 61.6 66.7 100.1#

51 0.0 29.9 44.9#



#16

Acetone

Concen: 5.52 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002840.D

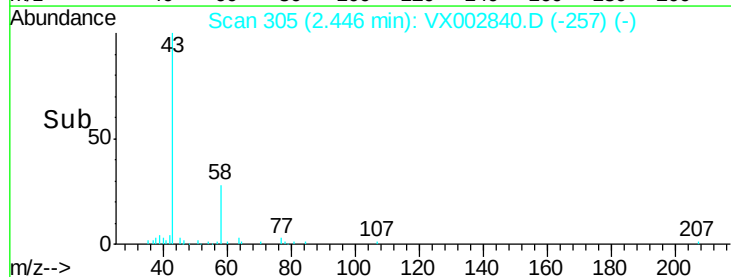
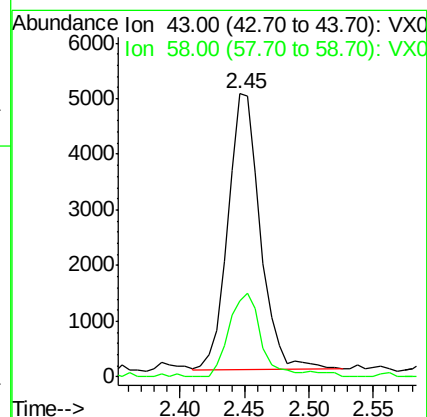
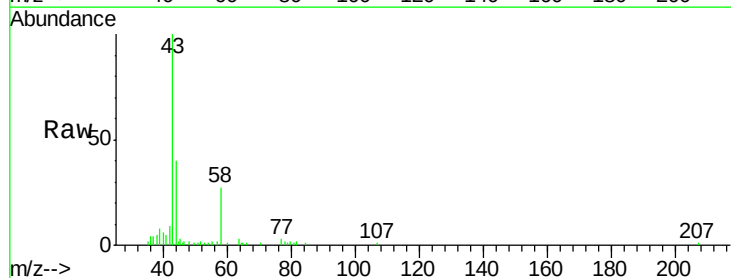
Acq: 22 Jun 2018 19:33

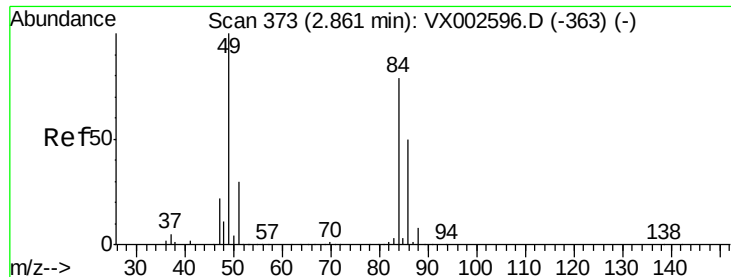
Tgt Ion: 43 Resp: 8757

Ion Ratio Lower Upper

43 100

58 27.7 22.1 33.1





#20

Methylene Chloride

Concen: 0.39 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

Z2TB03-180618

Tot Ion: 84 Resp: 1262

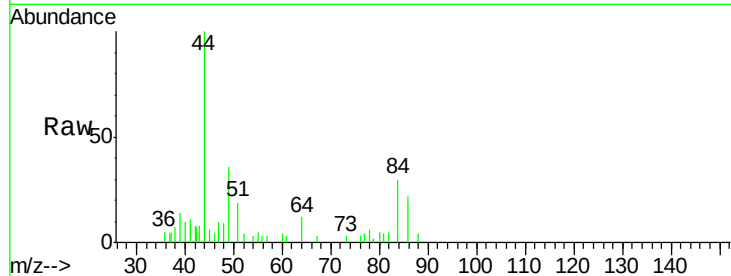
Ion Ratio Lower Upper

84 100

49 118.1 107.8 161.6

51 50.5 32.8 49.2#

86 73.7 52.5 78.7



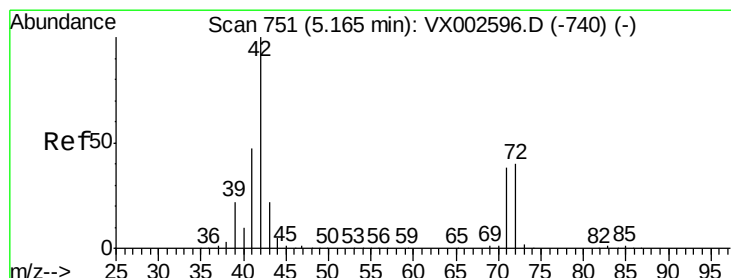
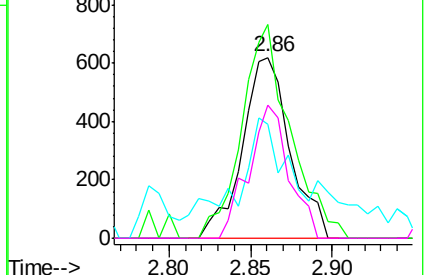
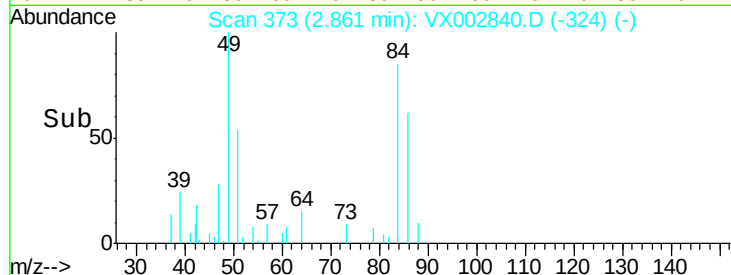
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

Time-->



#29

Tetrahydrofuran

Concen: 0.92 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

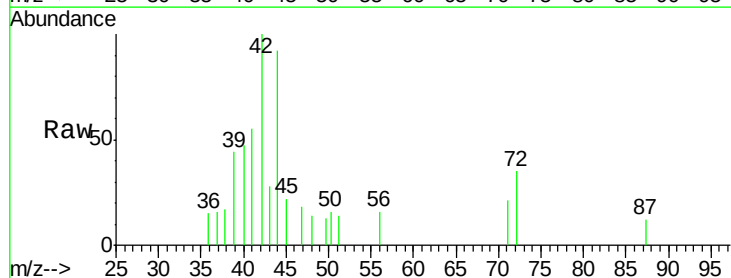
Tgt Ion: 42 Resp: 1255

Ion Ratio Lower Upper

42 100

72 29.2 32.0 48.0#

71 27.6 30.1 45.1#

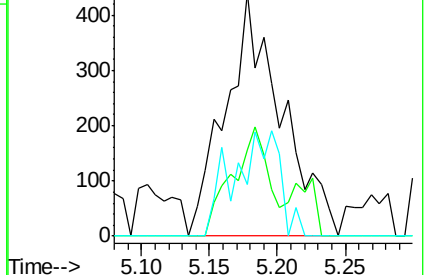
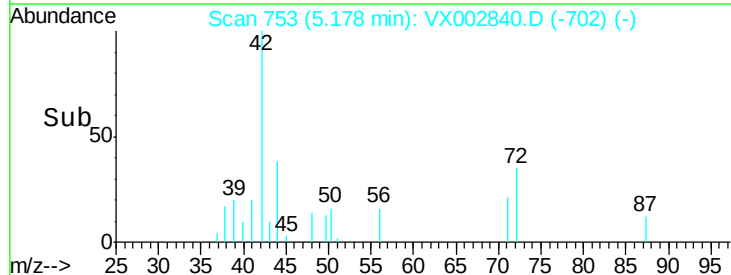


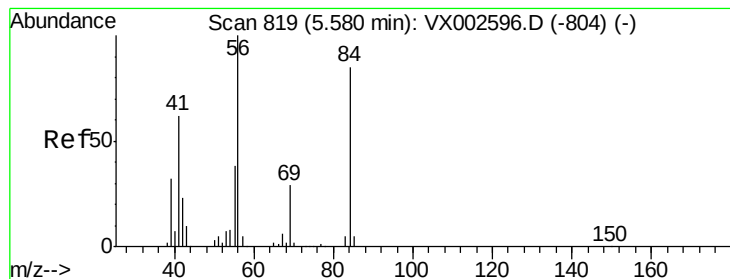
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

Time-->





#31

Cyclohexane

Concen: 1.24 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

Z2TB03-180618

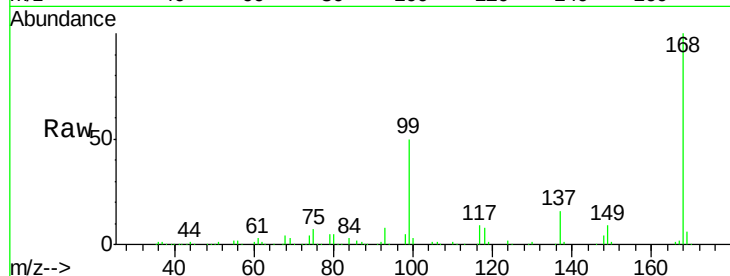
Tot Ion: 56 Resp: 5244

Ion Ratio Lower Upper

56 100

69 138.0 23.7 35.5#

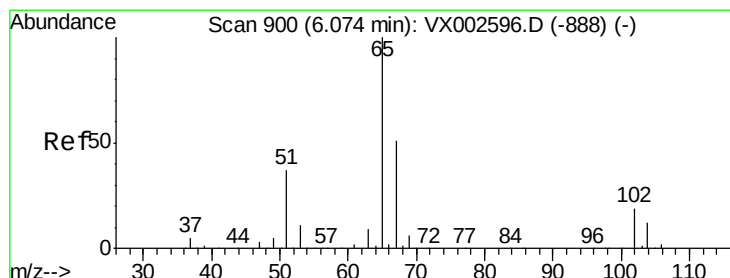
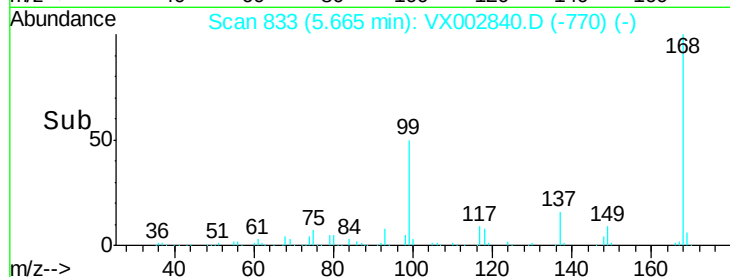
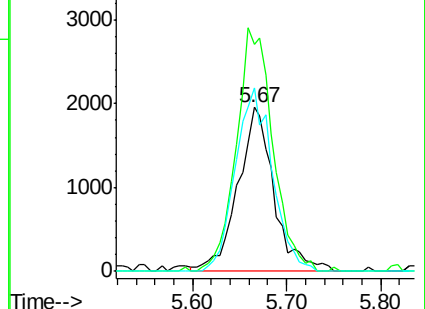
84 111.7 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.69 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002840.D

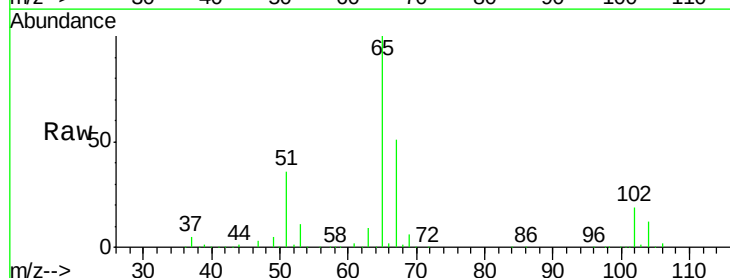
Acq: 22 Jun 2018 19:33

Tgt Ion: 65 Resp: 164247

Ion Ratio Lower Upper

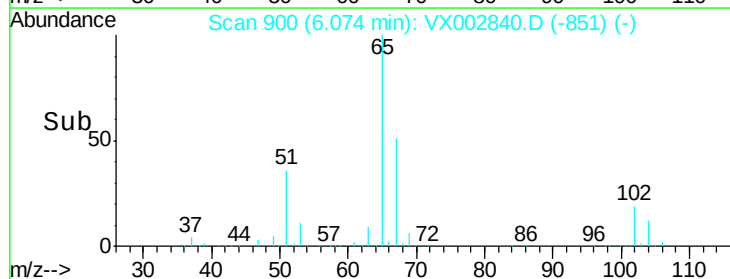
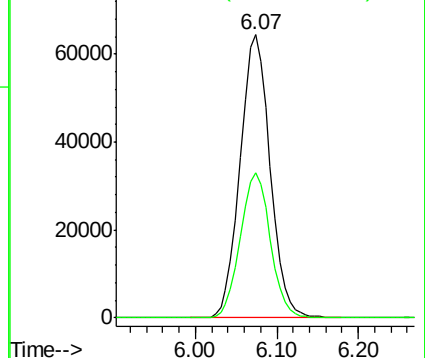
65 100

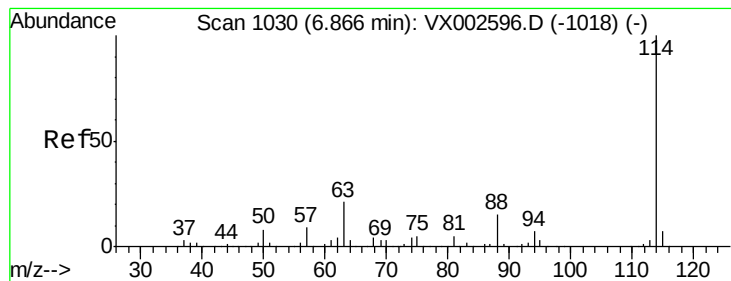
67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

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Z2TB03-180618

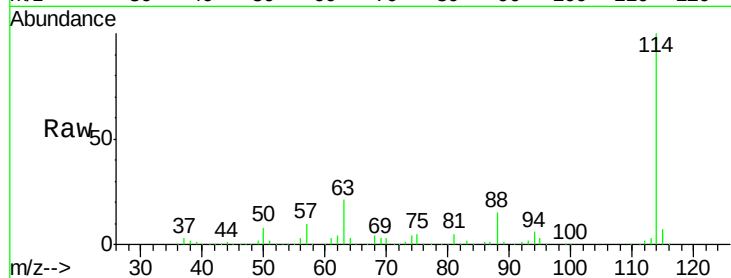
Tot Ion:114 Resp: 334224

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

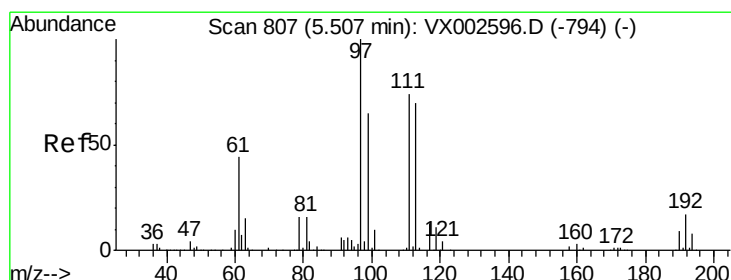
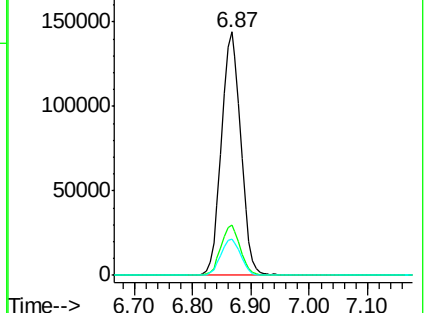
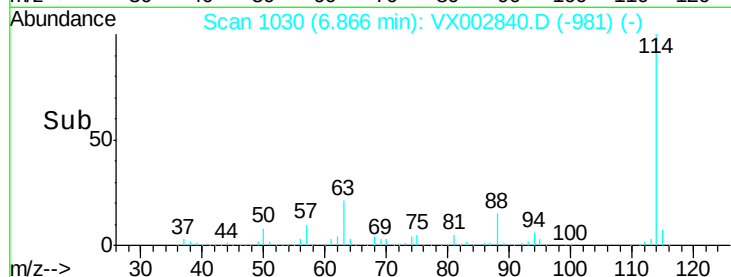
88 14.9 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.17 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

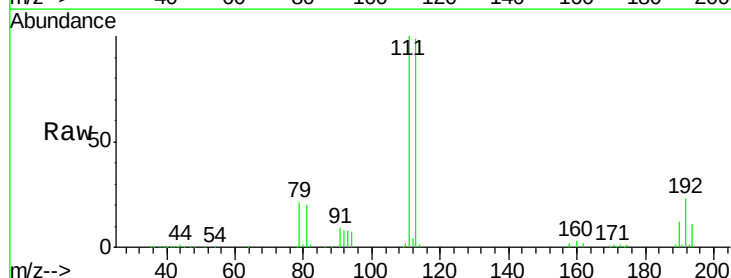
Tgt Ion:113 Resp: 128490

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

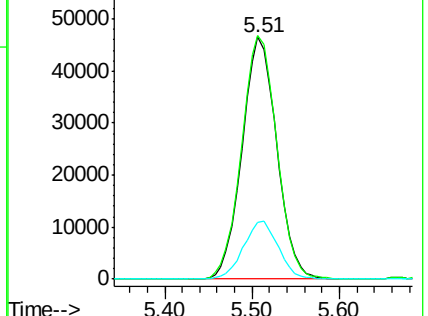
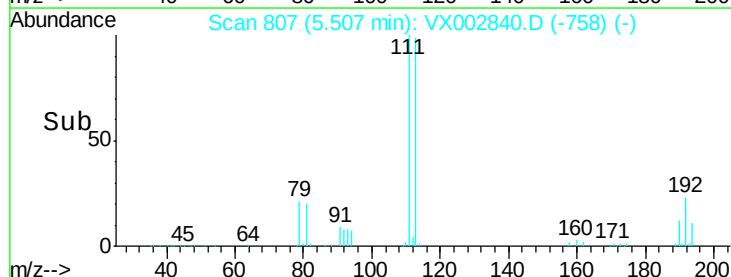
192 24.0 19.1 28.7

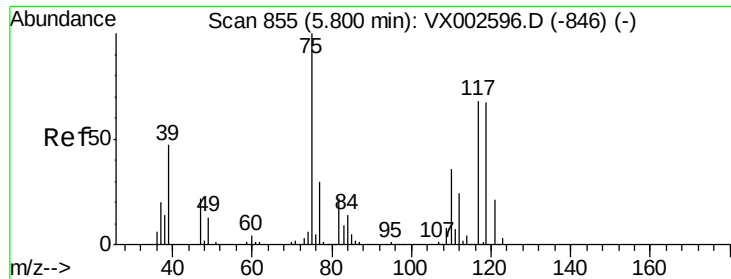


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

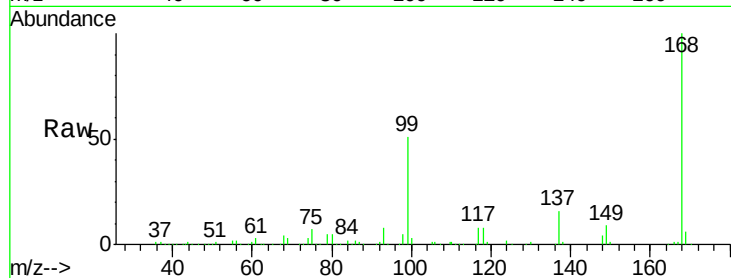




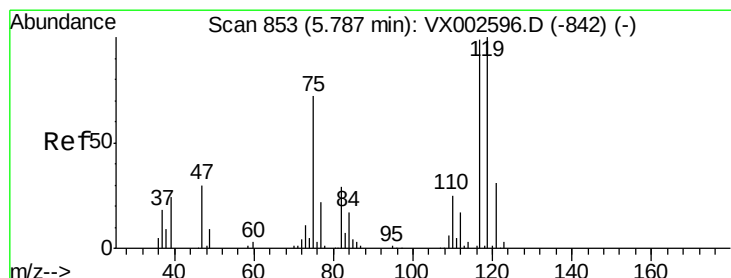
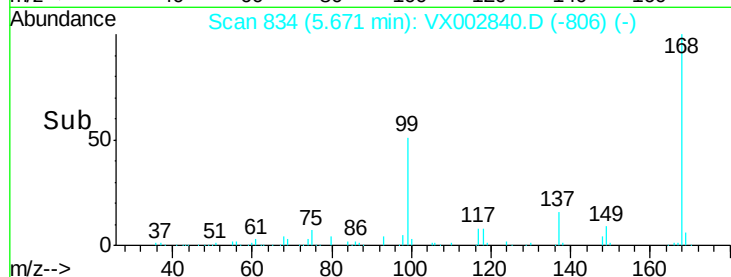
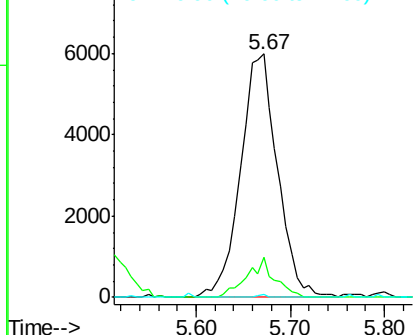
#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002840.D
 Acq: 22 Jun 2018 19:33

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2TB03-180618

Tot Ion: 75 Resp: 16451
 Ion Ratio Lower Upper
 75 100
 110 12.3 18.1 54.4#
 77 0.3 24.3 36.5#

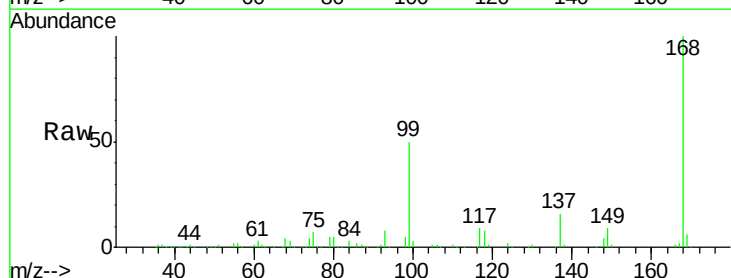


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

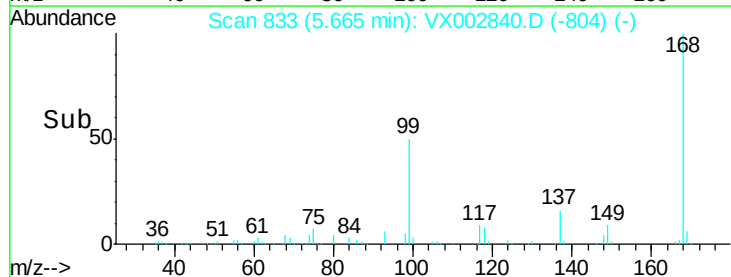
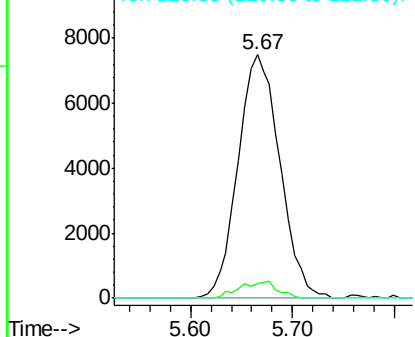


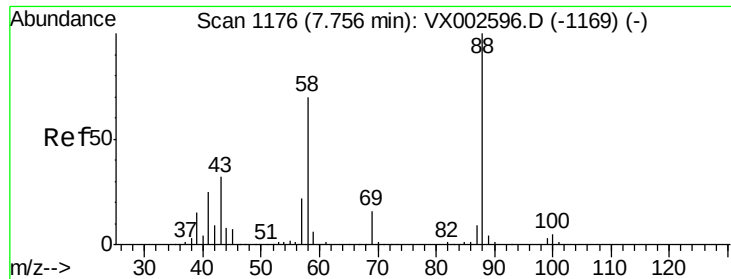
#38
 Carbon Tetrachloride
 Concen: 6.03 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002840.D
 Acq: 22 Jun 2018 19:33

Tgt Ion: 117 Resp: 21324
 Ion Ratio Lower Upper
 117 100
 119 5.9 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

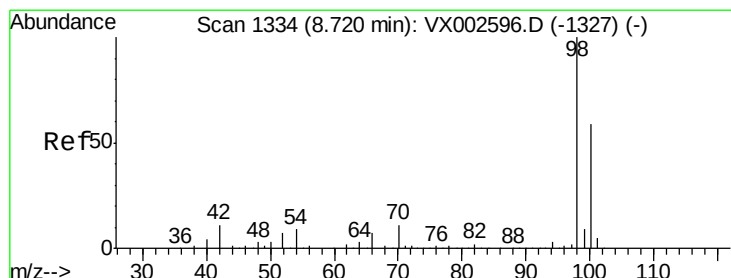
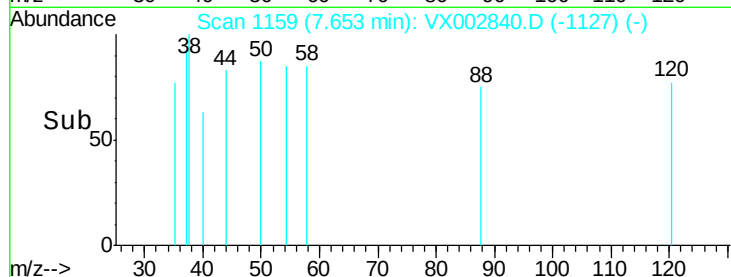
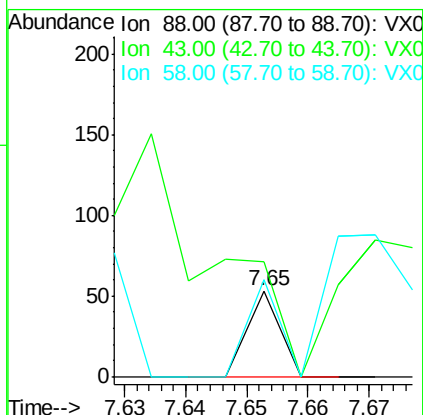
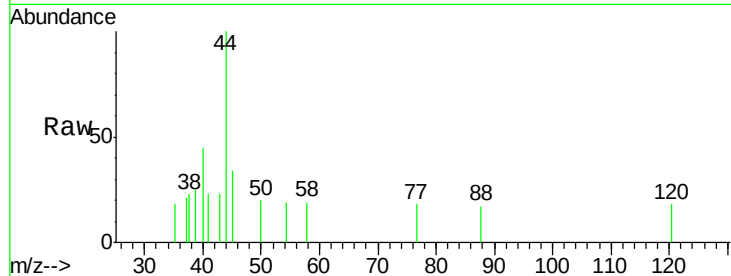




#49
1,4-Dioxane
Concen: 0.29 ug/l
RT: 7.65 min Scan# 1159
Delta R.T. -0.10 min
Lab File: VX002840.D
Acq: 22 Jun 2018 19:33

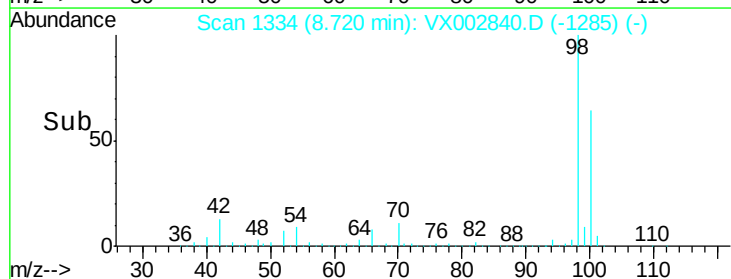
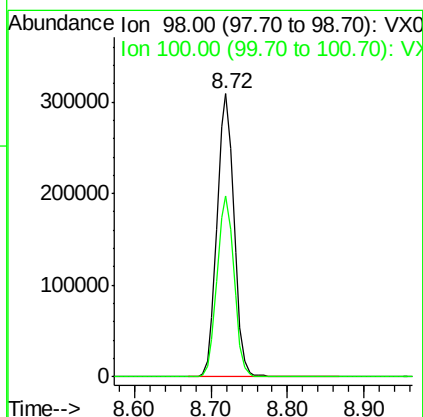
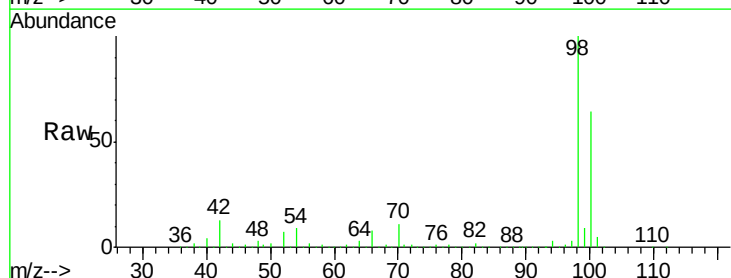
Instrument :
MSVOA_X
ClientSampleId :
Z2TB03-180618

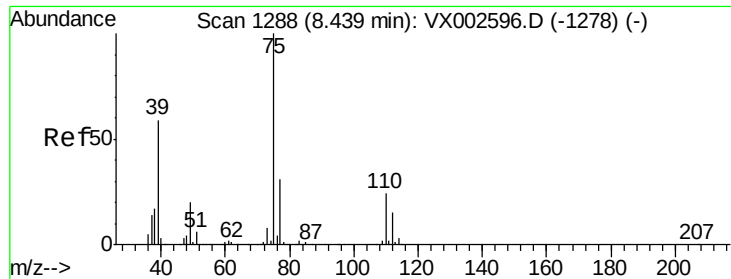
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 57.1 85.7#



#50
Toluene-d8
Concen: 46.95 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002840.D
Acq: 22 Jun 2018 19:33

Tgt Ion: 98 Resp: 475485
Ion Ratio Lower Upper
98 100
100 64.0 50.9 76.3





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.58 min Scan# 1311

Delta R.T. 0.14 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

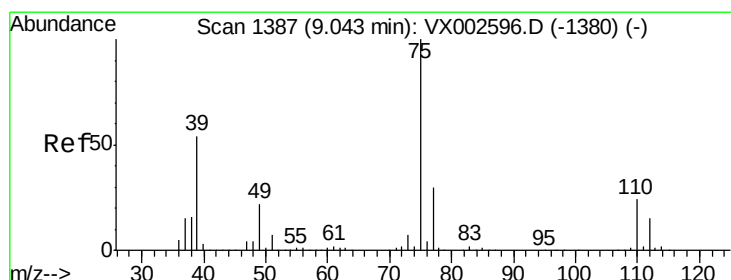
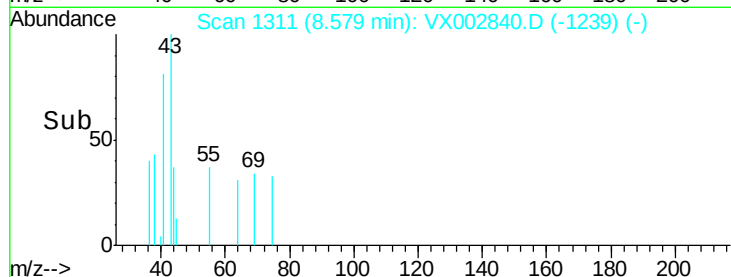
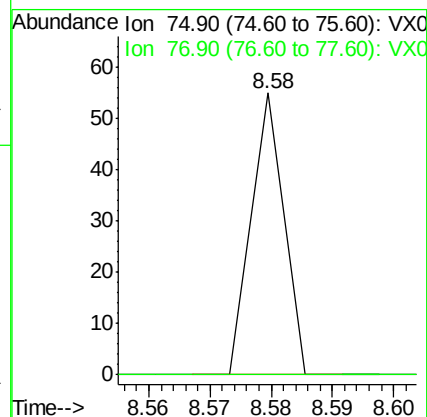
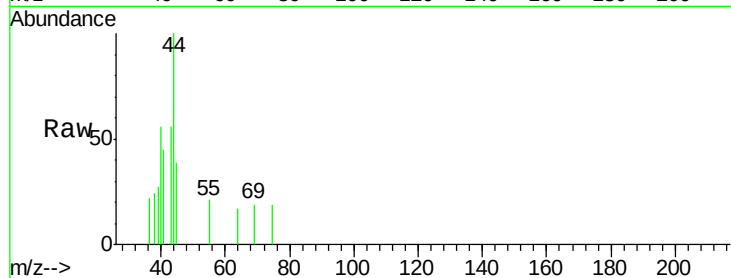
Z2TB03-180618

Tot Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.24 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

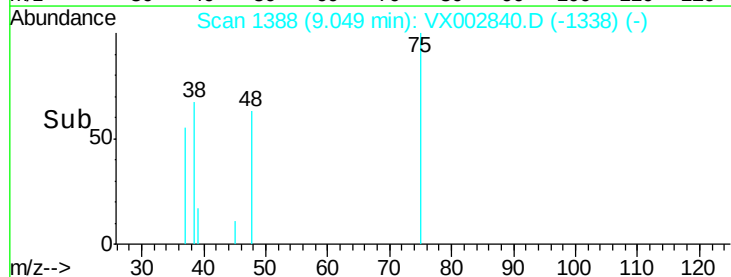
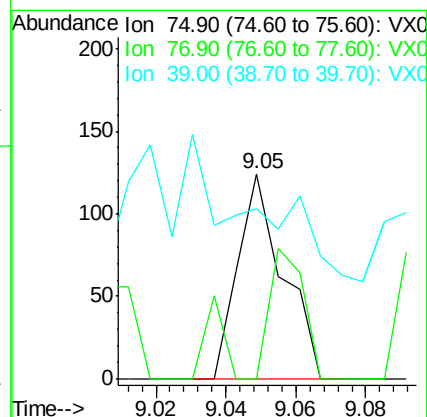
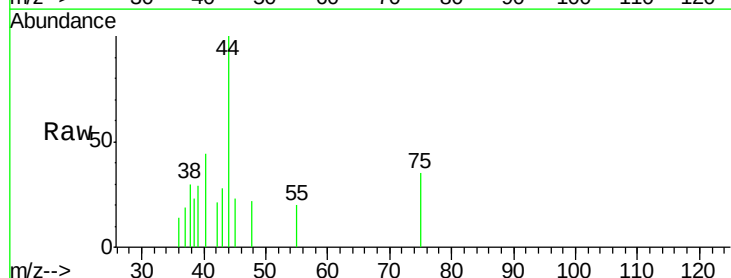
Tgt Ion: 75 Resp: 112

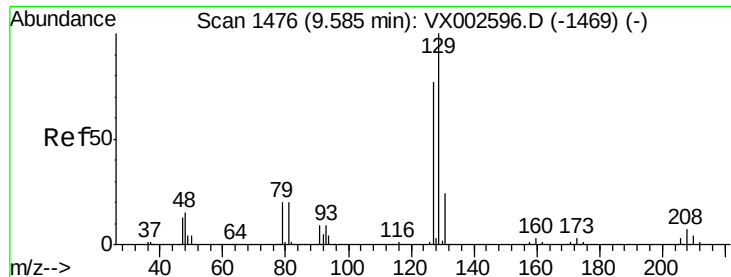
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 32.3 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.79 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

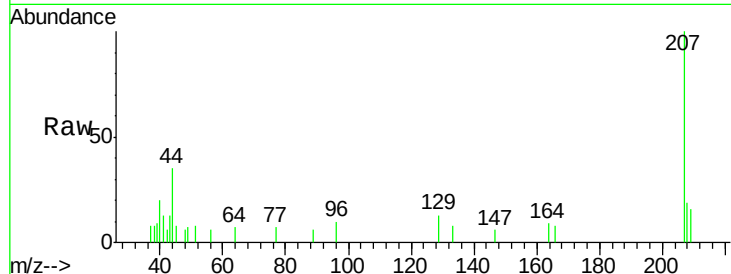
Z2TB03-180618

Tot Ion:129 Resp: 87

Ion Ratio Lower Upper

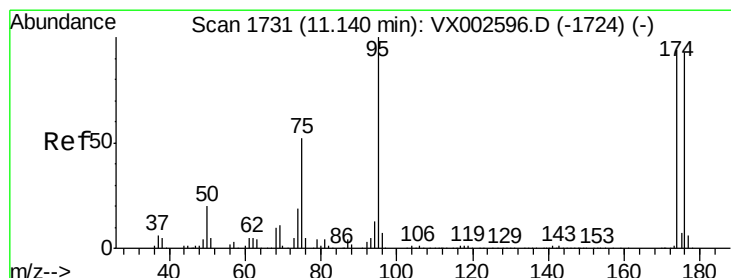
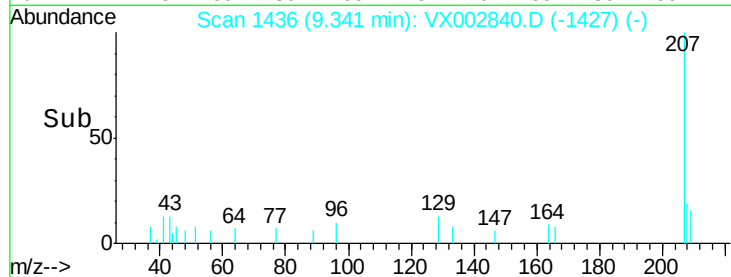
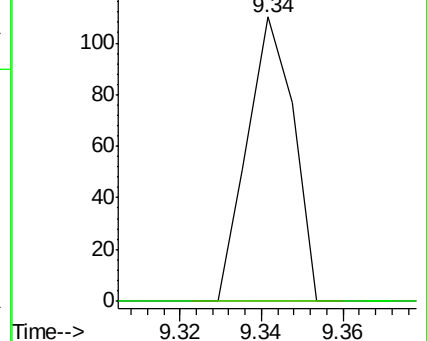
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

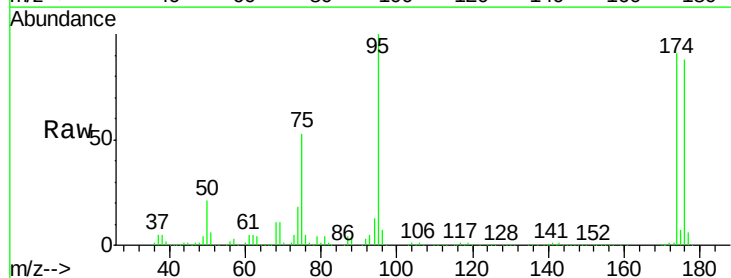
Tgt Ion: 95 Resp: 165611

Ion Ratio Lower Upper

95 100

174 95.1 0.0 187.4

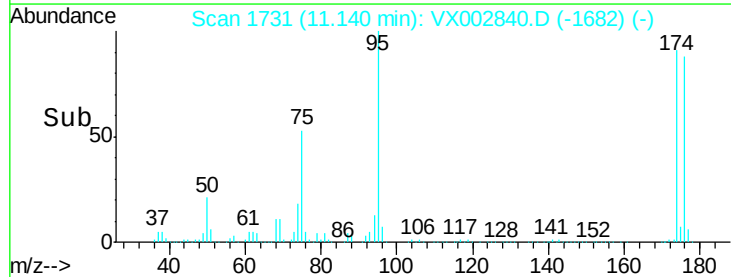
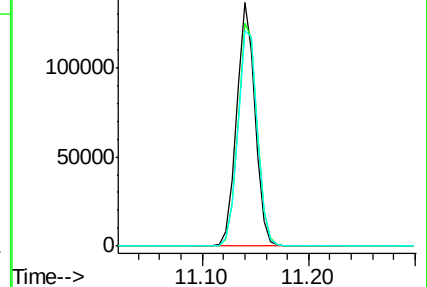
176 93.8 0.0 181.0

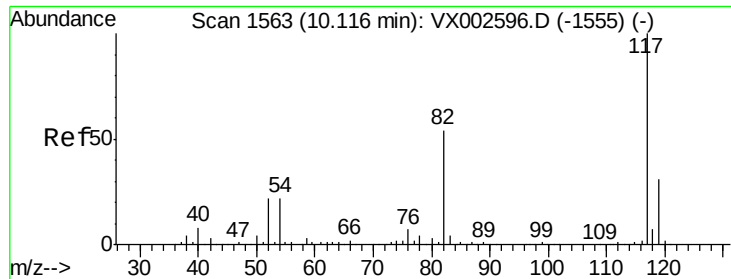


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

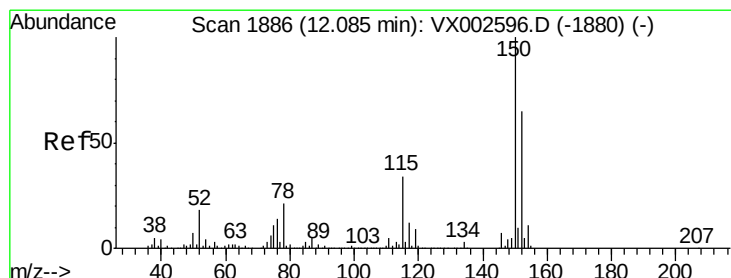
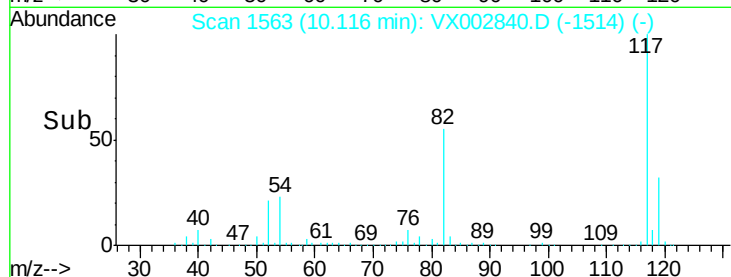
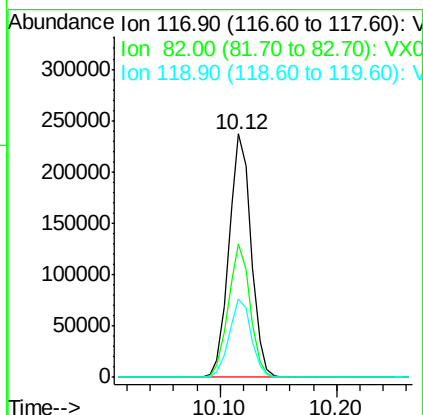
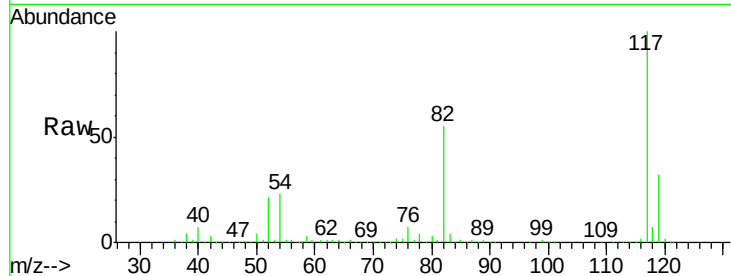




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002840.D
Acq: 22 Jun 2018 19:33

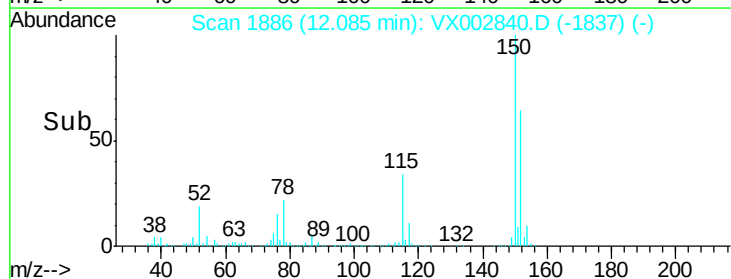
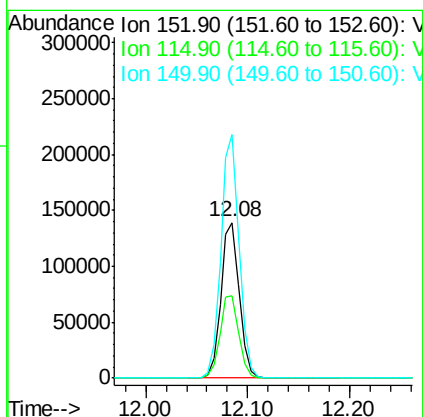
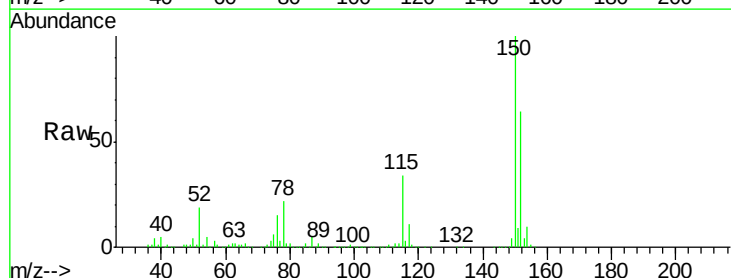
Instrument :
MSVOA_X
ClientSampleId :
Z2TB03-180618

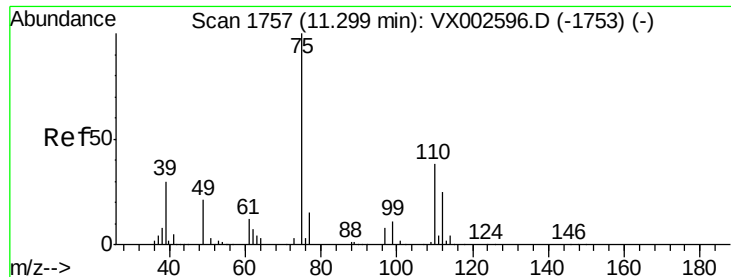
Tot Ion:117 Resp: 313252
Ion Ratio Lower Upper
117 100
82 54.7 45.0 67.4
119 32.4 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002840.D
Acq: 22 Jun 2018 19:33

Tgt Ion:152 Resp: 174210
Ion Ratio Lower Upper
152 100
115 54.7 40.1 120.2
150 155.6 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 26.88 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

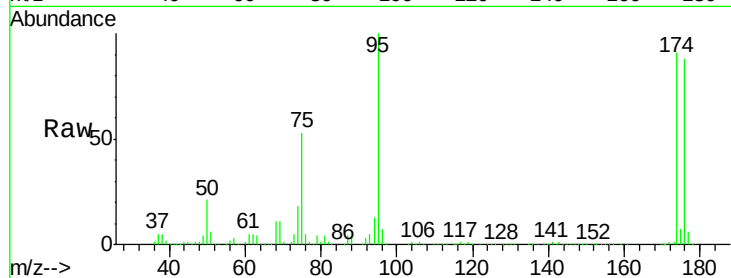
Z2TB03-180618

Tot Ion: 75 Resp: 88366

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

60000

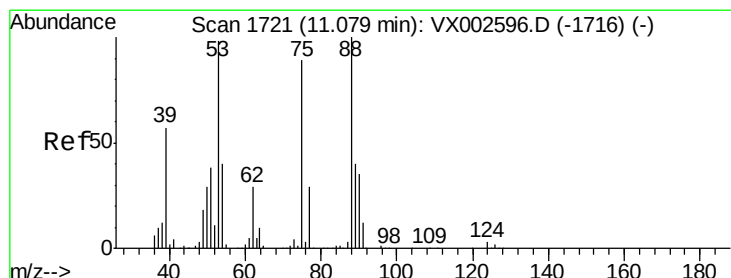
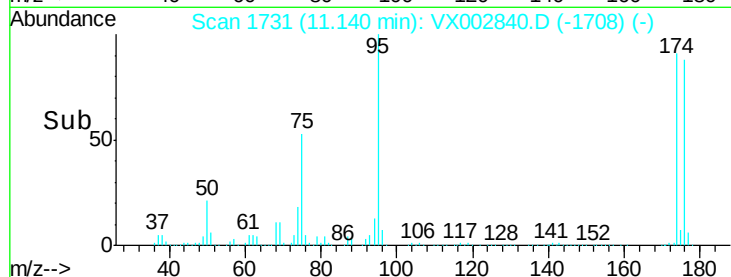
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 83.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002840.D

Acq: 22 Jun 2018 19:33

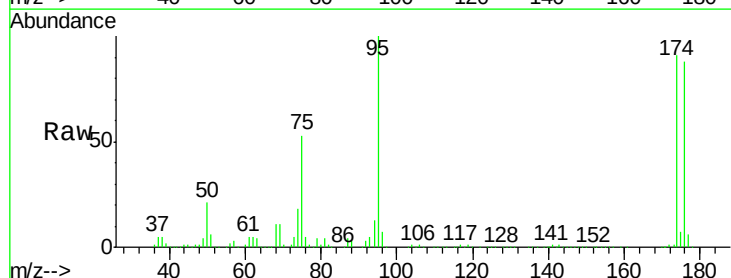
Tgt Ion: 75 Resp: 88366

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

100000

80000

60000

40000

20000

0

Time-->

11.10 11.20

