

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032118\
 Data File : VX000384.D
 Acq On : 21 Mar 2018 14:46
 Operator : JC/MD
 Sample : J1997-16 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DGA-TOP-LAYER-1-B

Quant Time: Mar 22 05:29:08 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	108325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	188342	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	177442	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	86060	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	75311	53.26	ug/l	0.00
Spiked Amount			Recovery	=	106.52%	
35) Dibromofluoromethane	5.51	113	58862	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.73	98	231964	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
62) 4-Bromofluorobenzene	11.15	95	77757	38.99	ug/l	0.00
Spiked Amount			Recovery	=	77.98%	

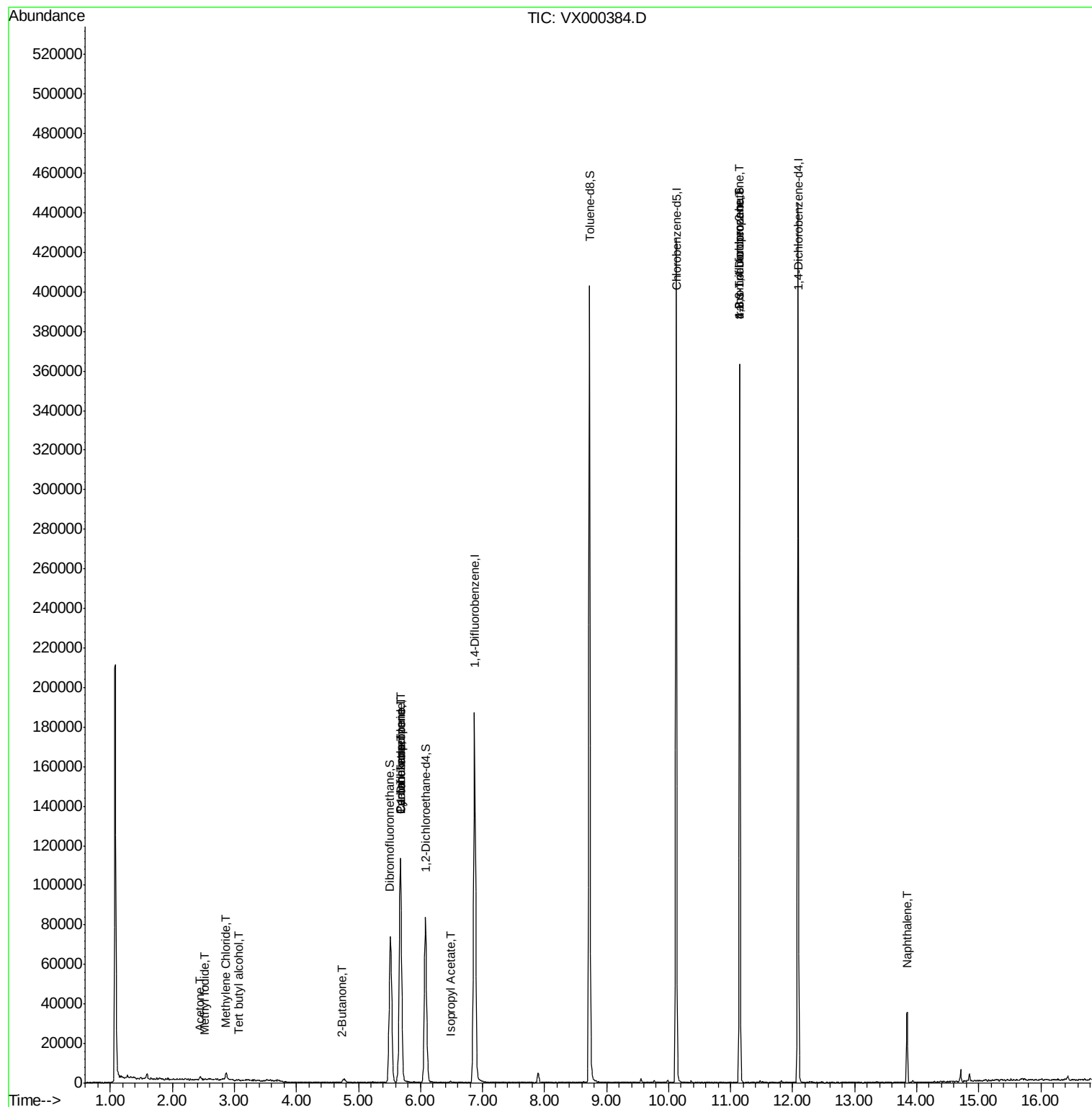
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	73	Below Cal	#	44
10) Methyl Iodide	2.51	142	60	4.32	ug/l #	37
11) Tert butyl alcohol	3.06	59	139	0.29	ug/l #	72
14) Allyl chloride	2.73	41	139	Below Cal	#	1
16) Acetone	2.45	43	1699	1.44	ug/l	95
20) Methylene Chloride	2.87	84	1525	1.12	ug/l #	87
25) 2-Butanone	4.73	43	382	0.29	ug/l #	49
31) Cyclohexane	5.68	56	2700	1.51	ug/l #	29
36) 1,1-Dichloropropene	5.68	75	8597	4.87	ug/l #	51
38) Carbon Tetrachloride	5.67	117	10401	5.62	ug/l #	14
43) Isopropyl Acetate	6.49	43	876	0.24	ug/l #	75
74) N-amyl acetate	6.49	43	876	Below Cal	#	81
76) 1,2,3-Trichloropropane	11.15	75	44795	24.22	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.15	75	44795	78.41	ug/l #	9
95) Naphthalene	13.85	128	21633	3.08	ug/l	99

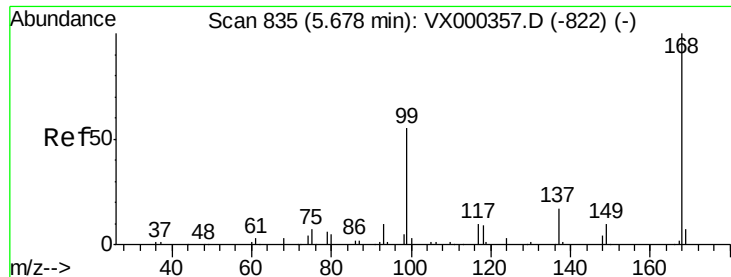
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 21 04:52:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Instrument :

MSVOA_X

ClientSampleId :

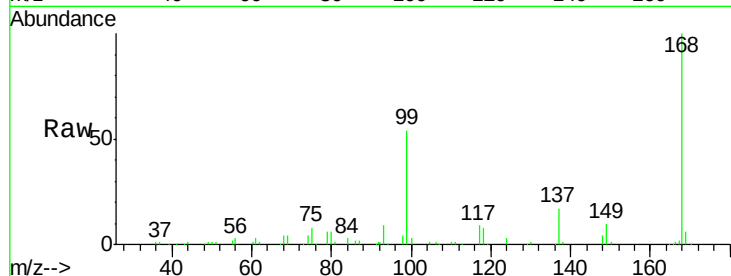
DGA-TOP-LAYER-1-B

Tgt Ion: 168 Resp: 108325

Ion Ratio Lower Upper

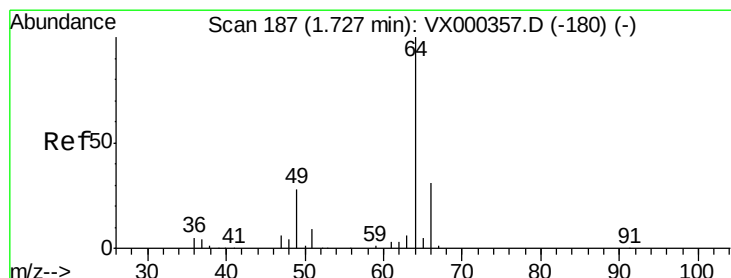
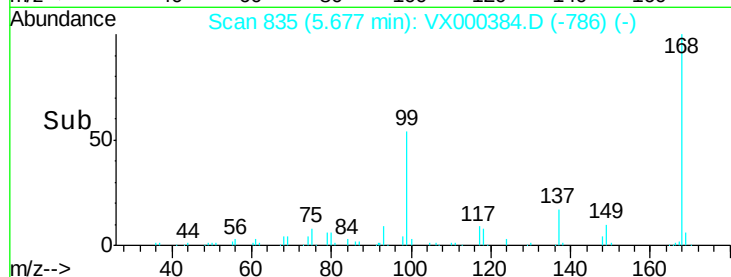
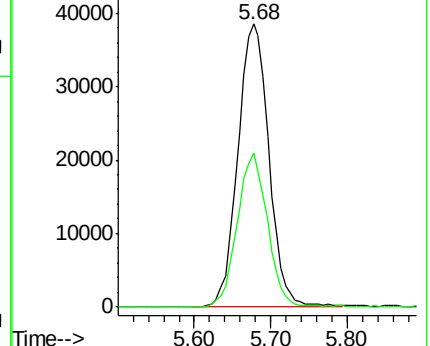
168 100

99 54.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX000384.D

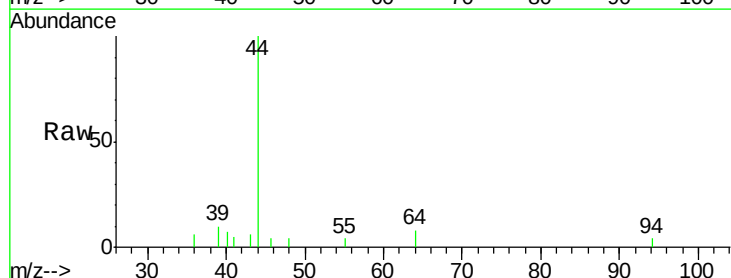
Acq: 21 Mar 2018 14:46

Tgt Ion: 64 Resp: 73

Ion Ratio Lower Upper

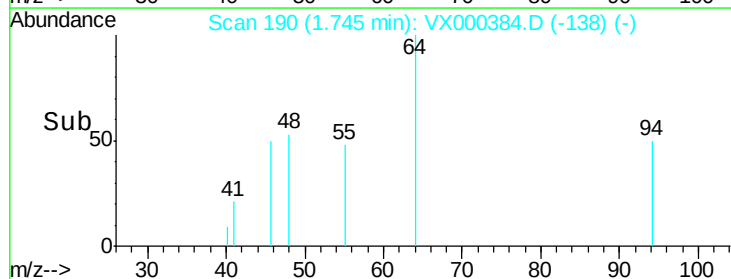
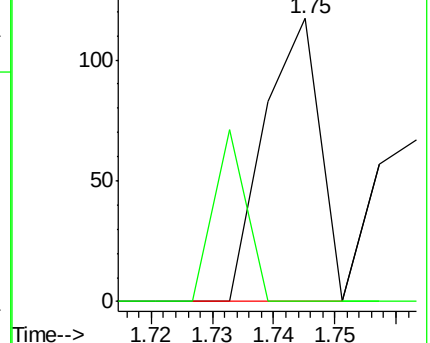
64 100

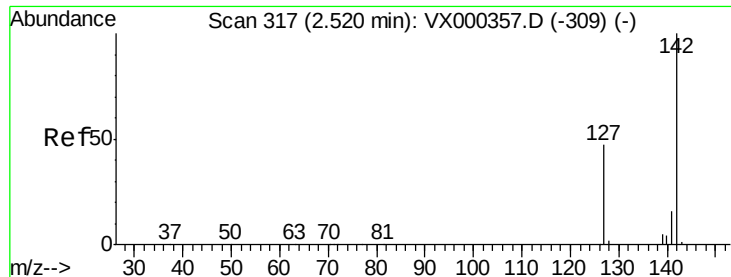
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

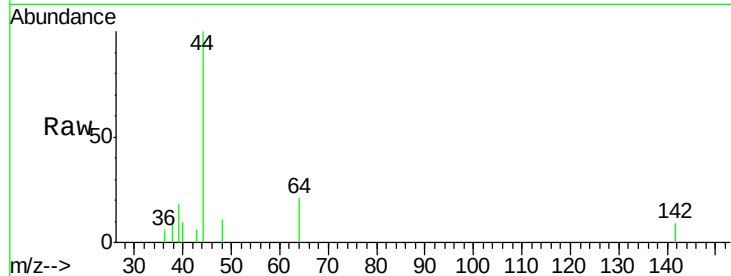




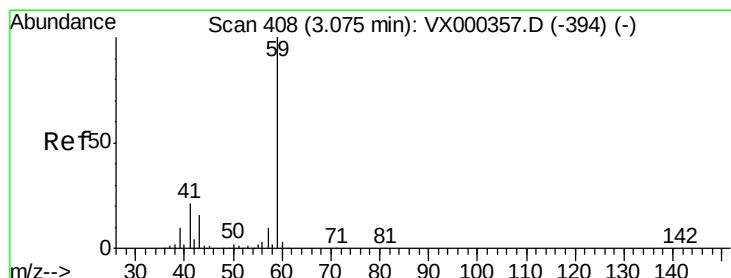
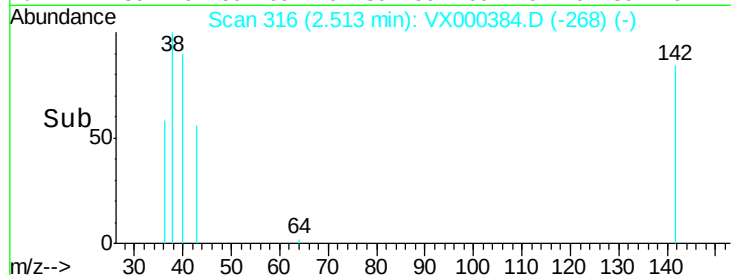
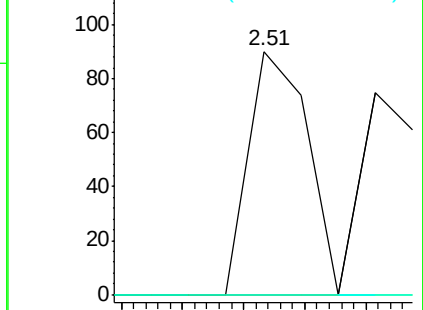
#10
Methyl Iodide
Concen: 4.32 ug/l
RT: 2.51 min Scan# 316
Delta R.T. -0.01 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-B

Tgt Ion:142 Resp: 60
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

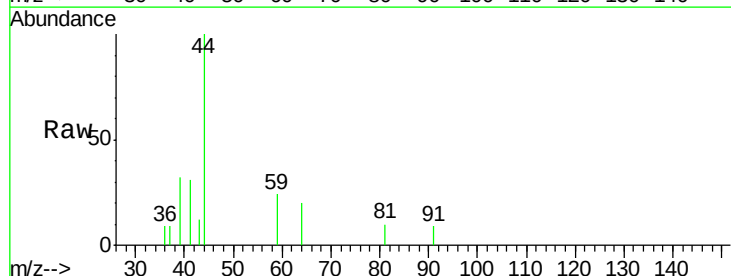


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

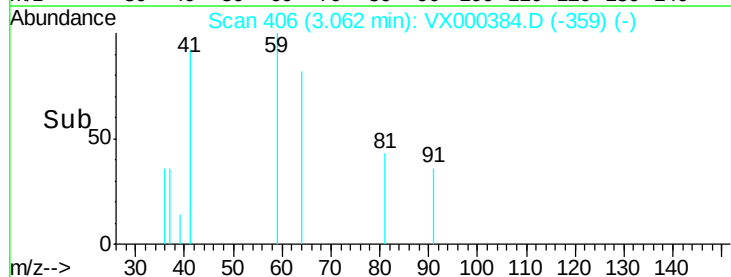
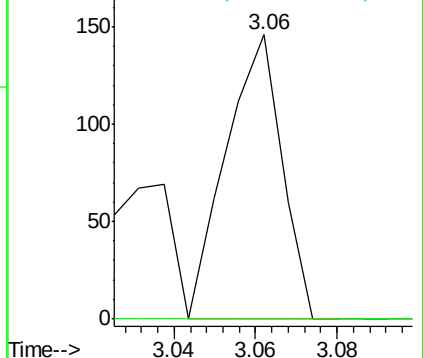


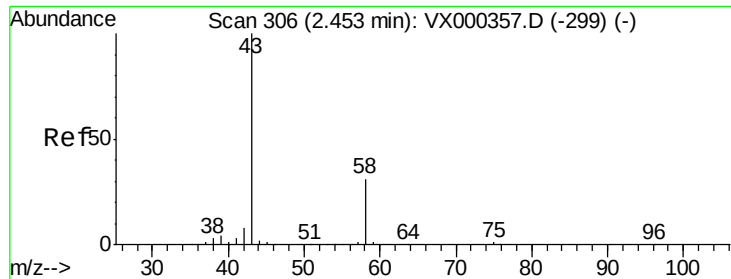
#11
Tert butyl alcohol
Concen: 0.29 ug/l
RT: 3.06 min Scan# 406
Delta R.T. -0.01 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

Tgt Ion: 59 Resp: 139
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 1.44 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Instrument :

MSVOA_X

ClientSampleId :

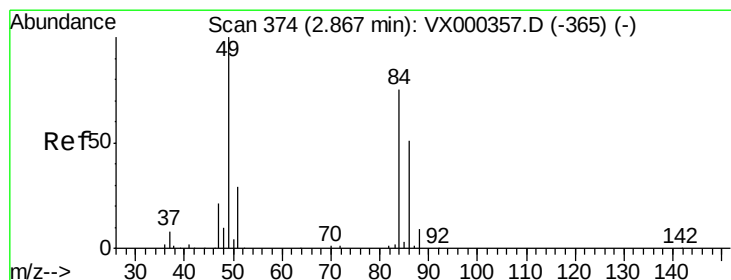
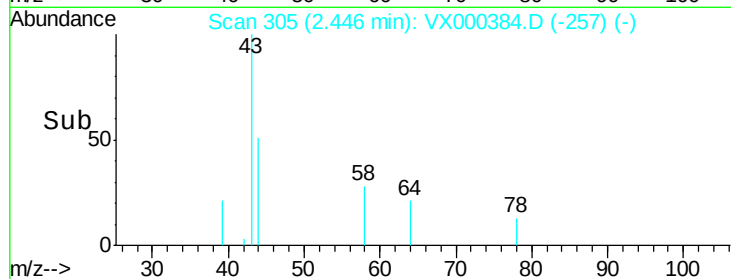
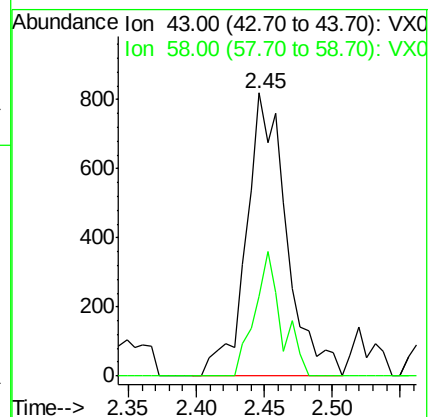
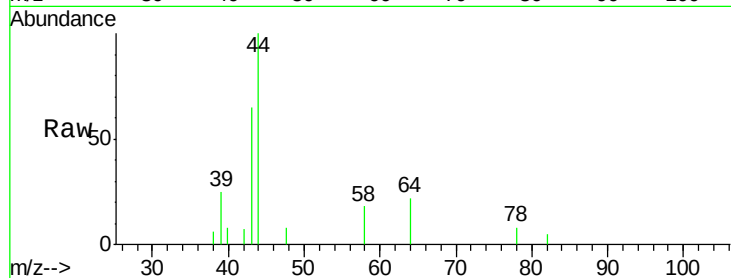
DGA-TOP-LAYER-1-B

Tgt Ion: 43 Resp: 1699

Ion Ratio Lower Upper

43 100

58 28.3 24.7 37.1



#20

Methylene Chloride

Concen: 1.12 ug/l

RT: 2.87 min Scan# 374

Delta R.T. -0.00 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Tgt Ion: 84 Resp: 1525

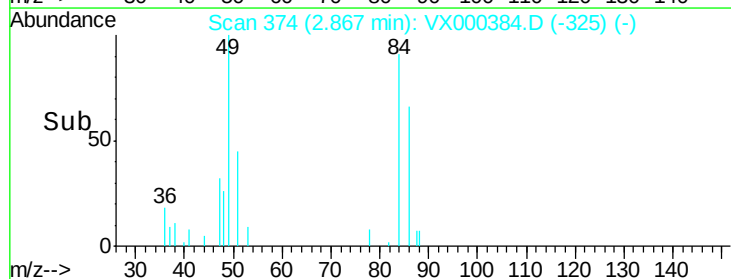
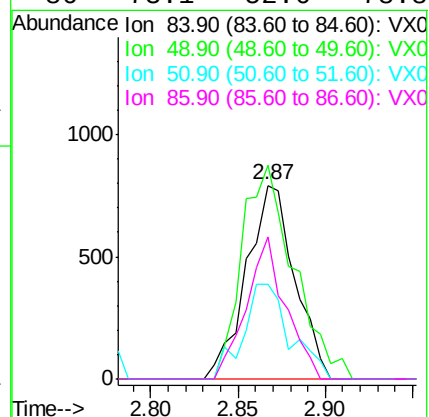
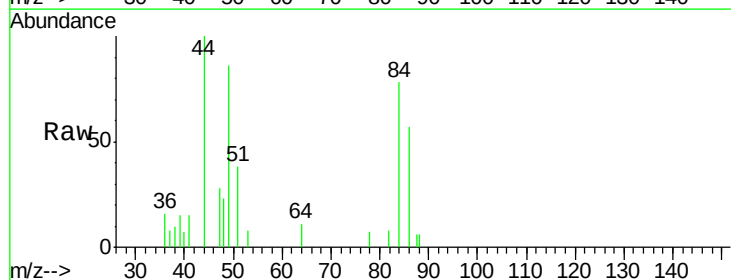
Ion Ratio Lower Upper

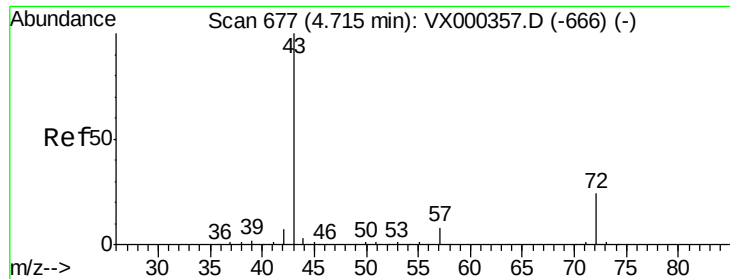
84 100

49 110.4 100.6 151.0

51 49.2 31.6 47.4#

86 73.1 52.6 78.8

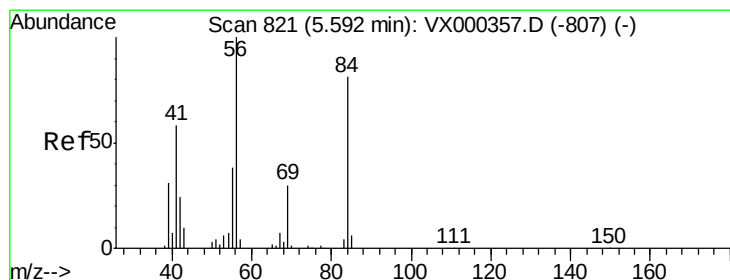
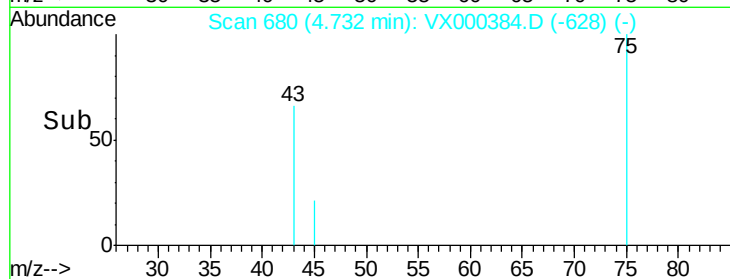
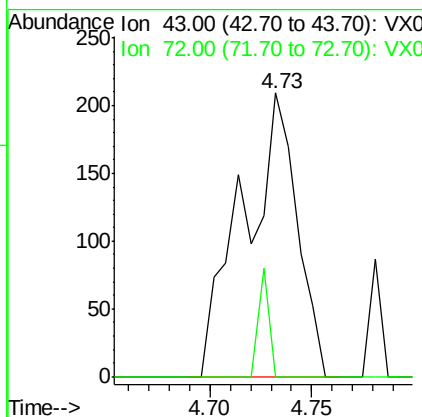
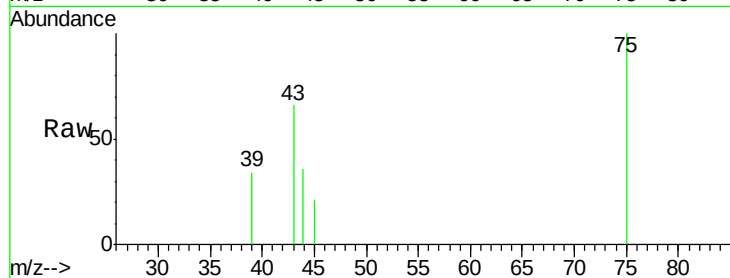




#25
2-Butanone
Concen: 0.29 ug/l
RT: 4.73 min Scan# 680
Delta R.T. 0.02 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

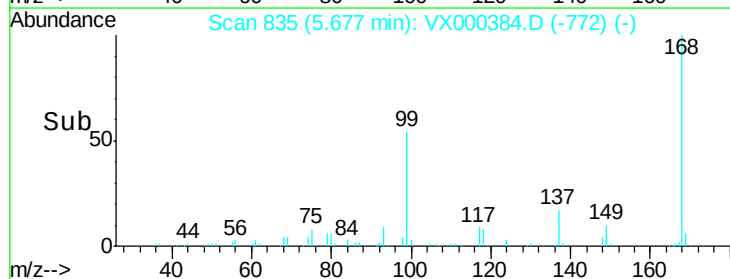
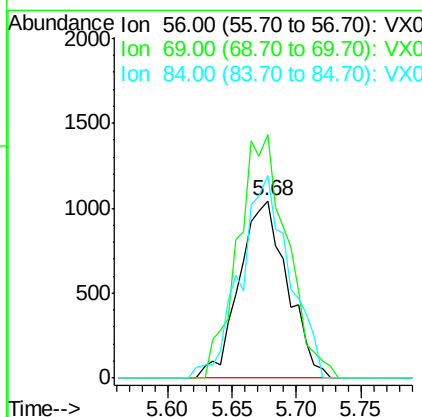
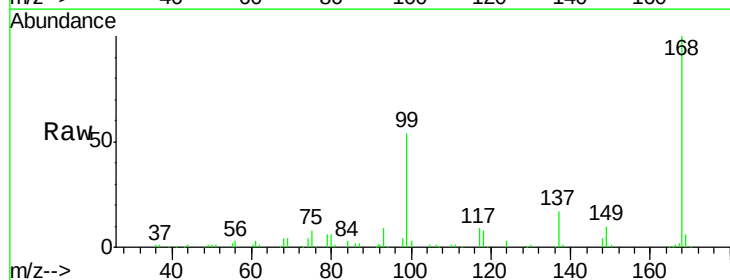
Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-B

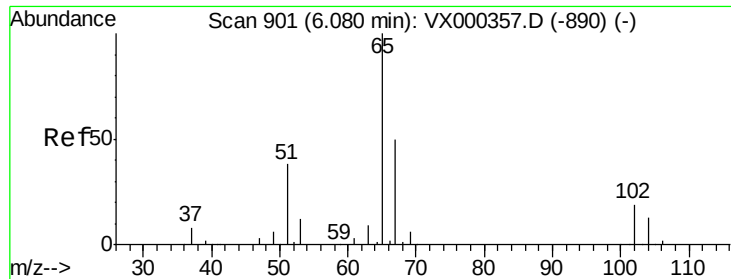
Tgt Ion: 43 Resp: 382
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#31
Cyclohexane
Concen: 1.51 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.08 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

Tgt Ion: 56 Resp: 2700
Ion Ratio Lower Upper
56 100
69 137.5 23.4 35.0#
84 114.3 71.0 106.4#

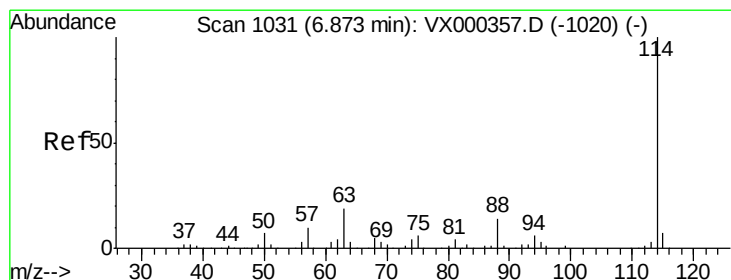
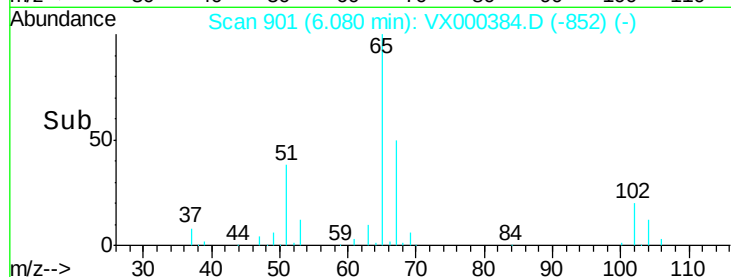
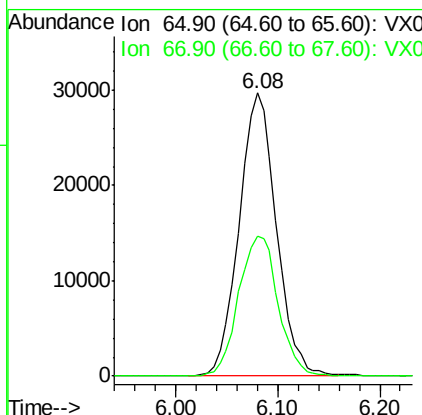
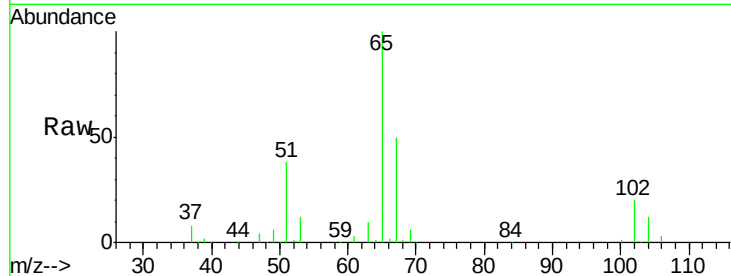




#33
 1,2-Dichloroethane-d4
 Concen: 53.26 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VX000384.D
 Acq: 21 Mar 2018 14:46

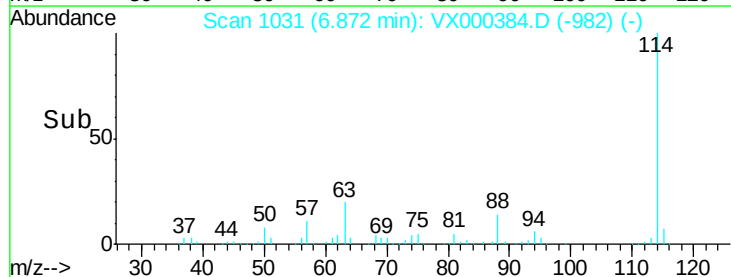
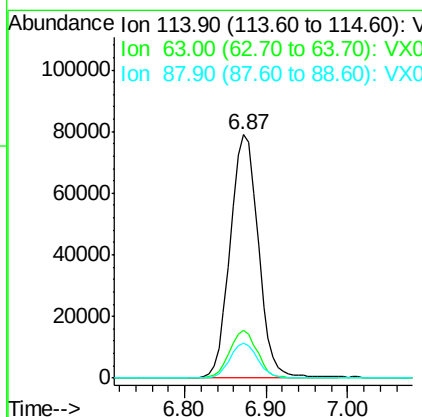
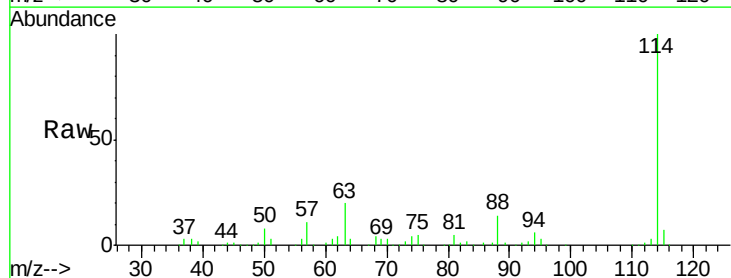
Instrument :
 MSVOA_X
 ClientSampleId :
 DGA-TOP-LAYER-1-B

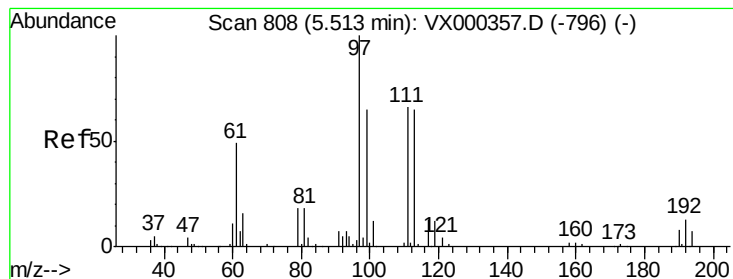
Tgt Ion: 65 Resp: 75311
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000384.D
 Acq: 21 Mar 2018 14:46

Tgt Ion: 114 Resp: 188342
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.4
 88 14.5 0.0 27.0





#35

Dibromofluoromethane

Concen: 49.60 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Instrument :

MSVOA_X

ClientSampleId :

DGA-TOP-LAYER-1-B

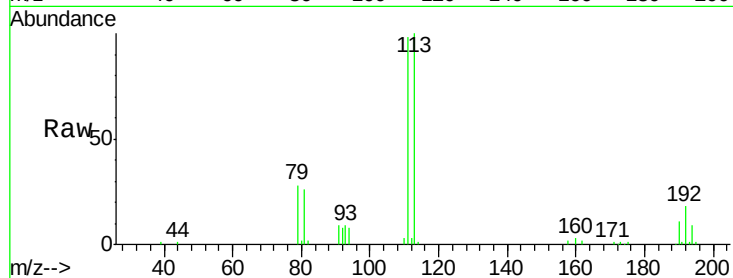
Tgt Ion:113 Resp: 58862

Ion Ratio Lower Upper

113 100

111 102.0 82.4 123.6

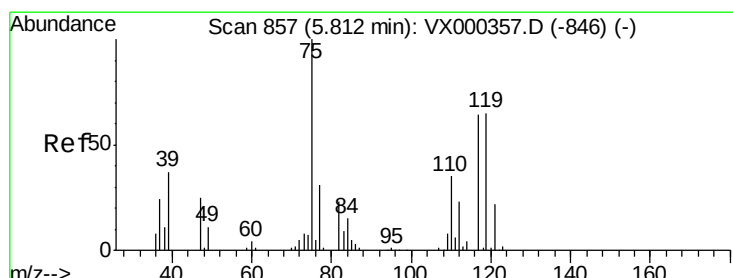
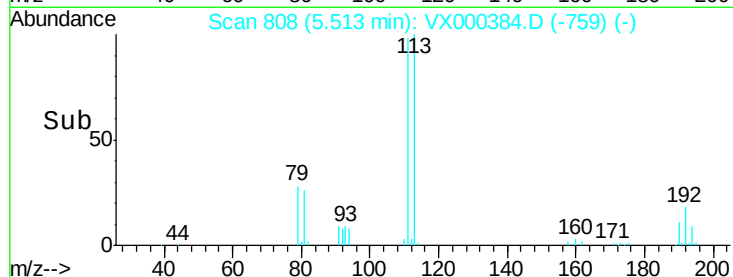
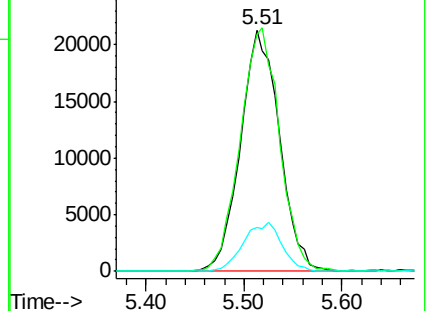
192 19.9 15.8 23.6



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: 4.87 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.13 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

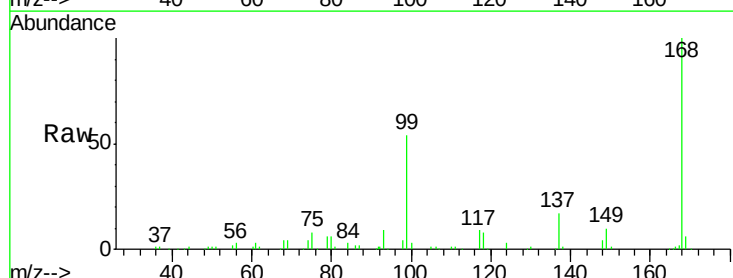
Tgt Ion: 75 Resp: 8597

Ion Ratio Lower Upper

75 100

110 10.4 17.9 53.7#

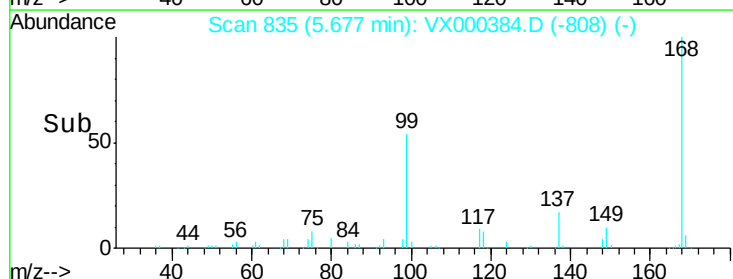
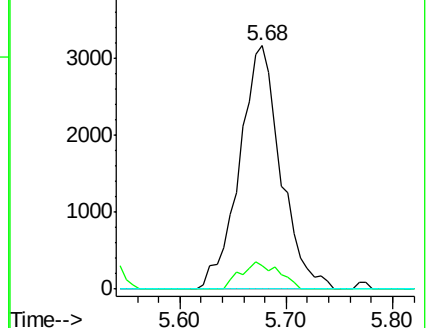
77 0.0 24.0 36.0#

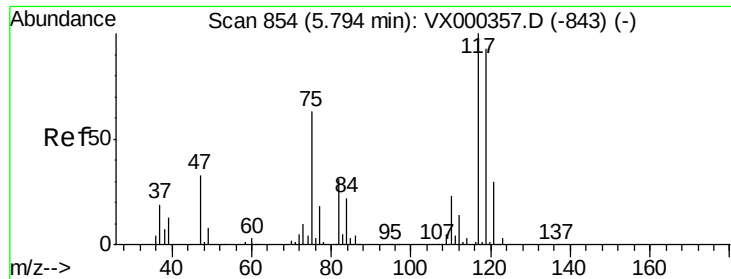


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.62 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Instrument :

MSVOA_X

ClientSampleId :

DGA-TOP-LAYER-1-B

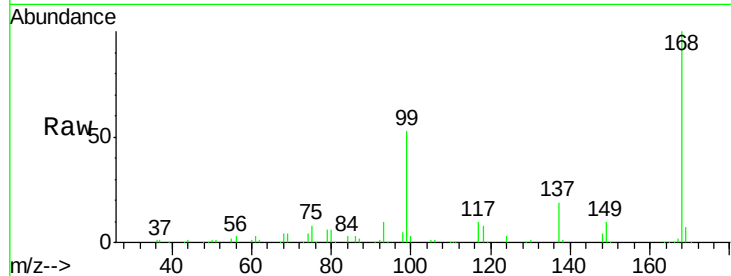
Tgt Ion: 117 Resp: 10401

Ion Ratio Lower Upper

117 100

119 3.1 77.4 116.2#

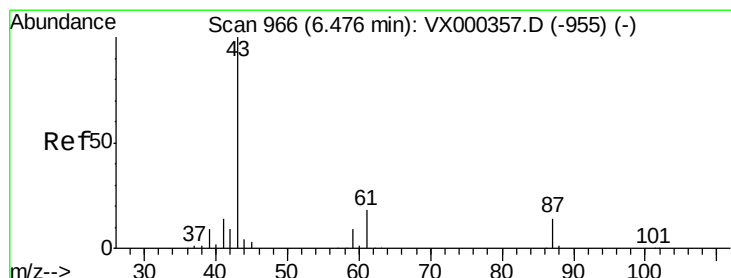
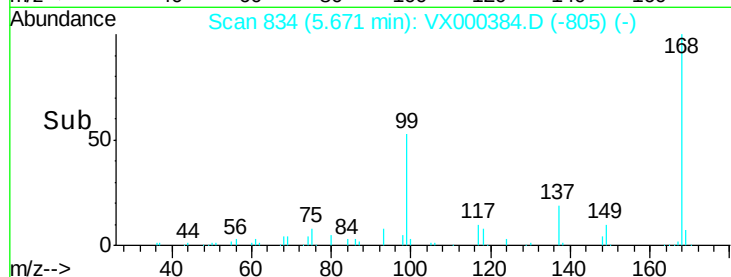
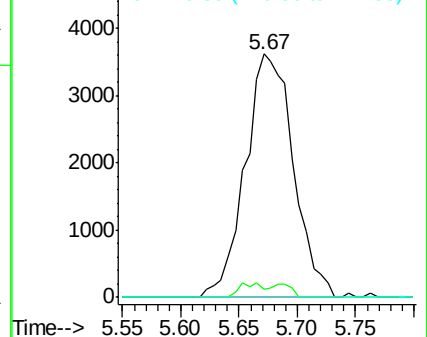
121 0.0 24.8 37.2#



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: 0.24 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

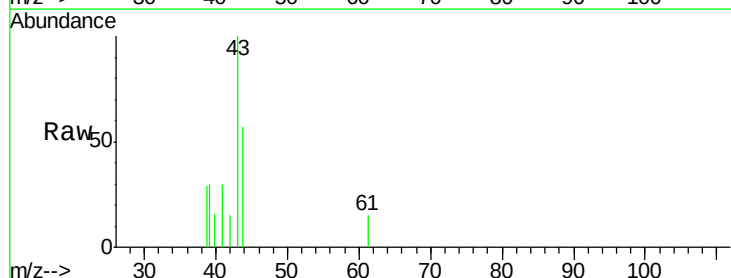
Tgt Ion: 43 Resp: 876

Ion Ratio Lower Upper

43 100

61 9.8 14.4 21.6#

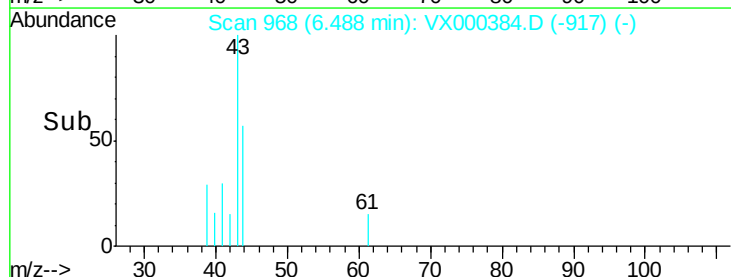
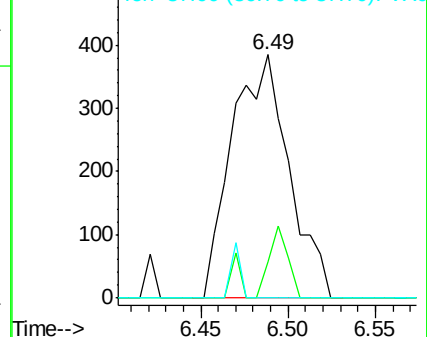
87 0.0 11.0 16.4#

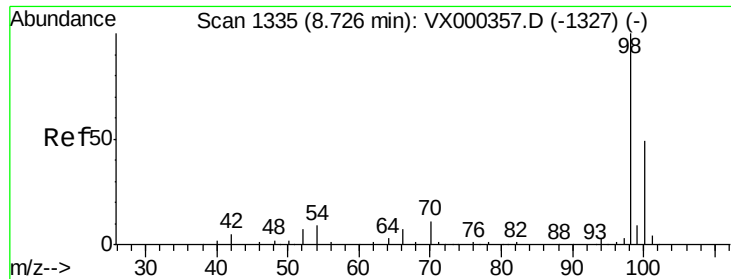


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

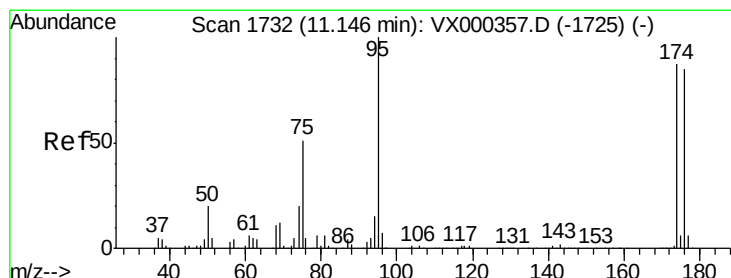
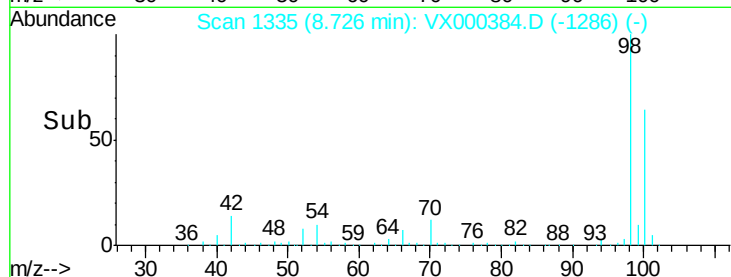
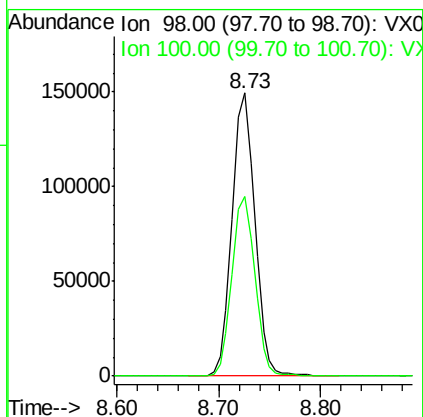
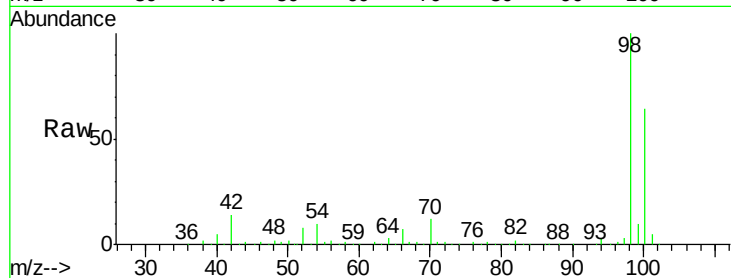




#50
Toluene-d8
Concen: 47.20 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

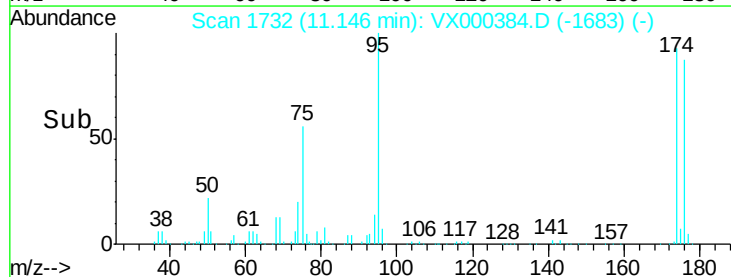
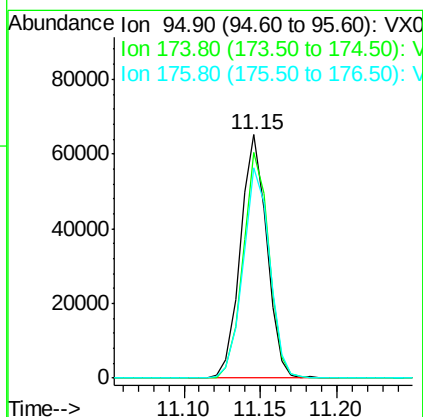
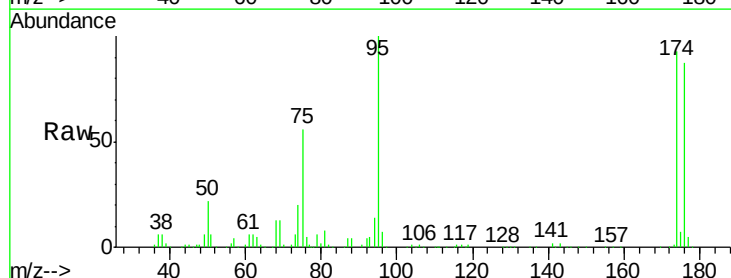
Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-B

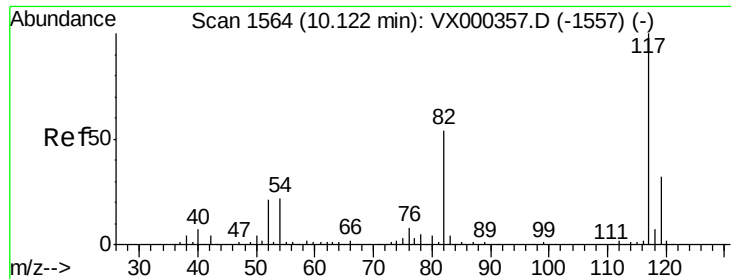
Tgt Ion: 98 Resp: 231964
Ion Ratio Lower Upper
98 100
100 64.0 51.2 76.8



#62
4-Bromofluorobenzene
Concen: 38.99 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

Tgt Ion: 95 Resp: 77757
Ion Ratio Lower Upper
95 100
174 91.1 0.0 173.6
176 87.2 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Instrument :

MSVOA_X

ClientSampleId :

DGA-TOP-LAYER-1-B

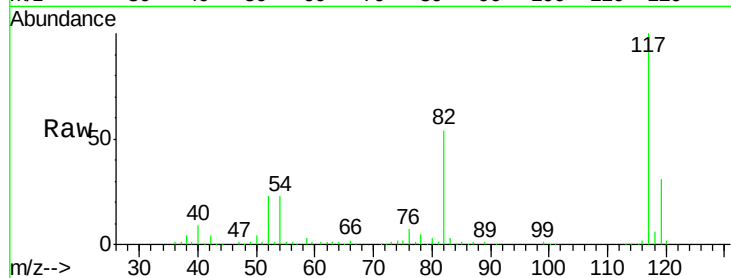
Tgt Ion:117 Resp: 177442

Ion Ratio Lower Upper

117 100

82 53.9 43.8 65.8

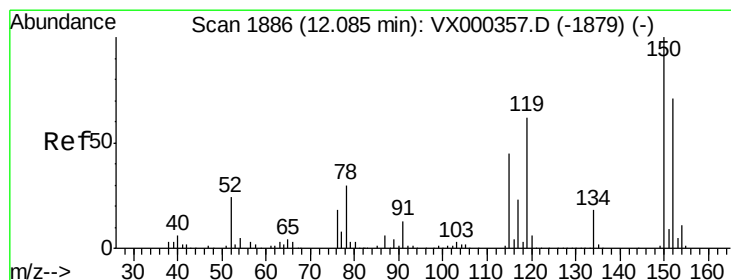
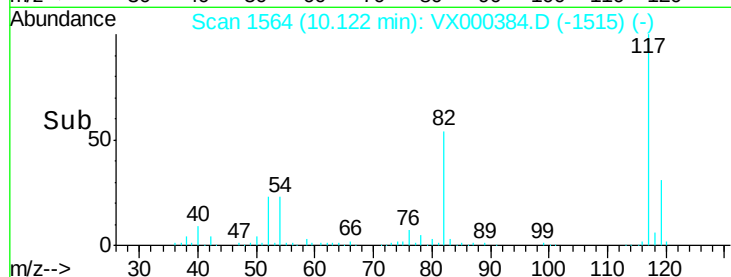
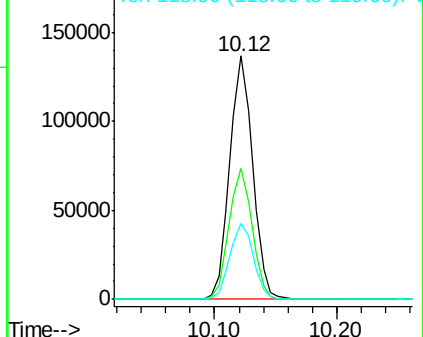
119 31.1 24.9 37.3



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# 1886

Delta R.T. -0.00 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

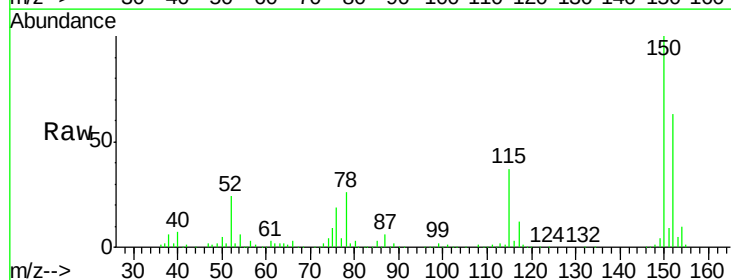
Tgt Ion:152 Resp: 86060

Ion Ratio Lower Upper

152 100

115 55.8 39.8 119.3

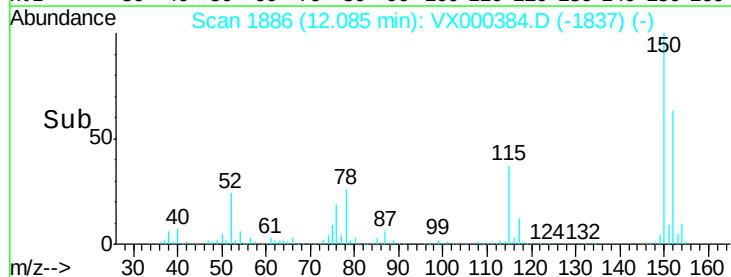
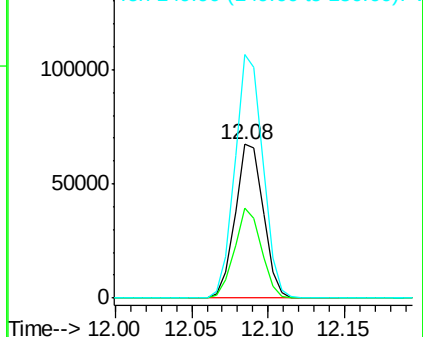
150 157.0 0.0 344.4

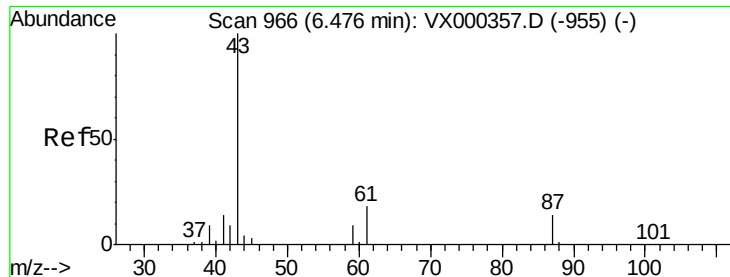


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000384.D

Acq: 21 Mar 2018 14:46

Instrument :

MSVOA_X

ClientSampleId :

DGA-TOP-LAYER-1-B

Tgt Ion: 43 Resp: 876

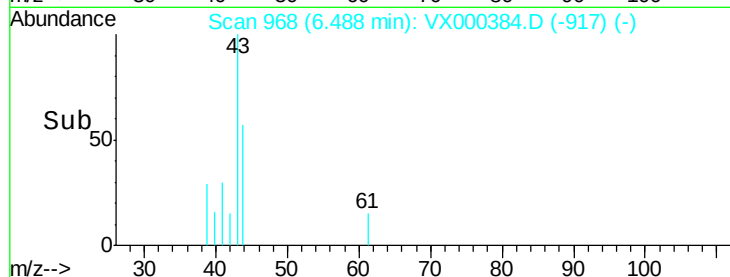
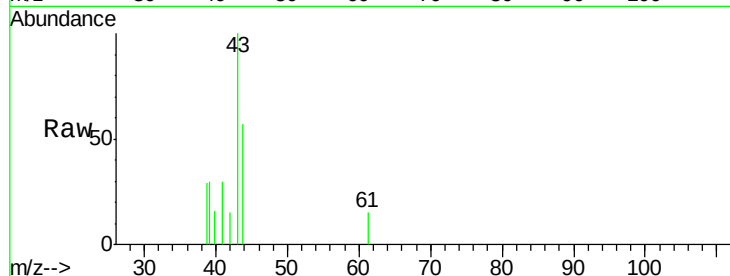
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 9.8 14.4 21.6#

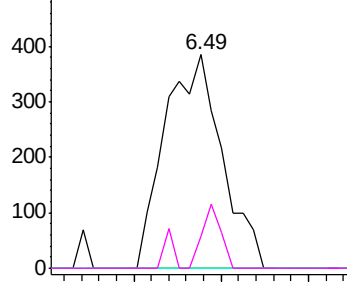


Abundance Ion 43.00 (42.70 to 43.70): VX0

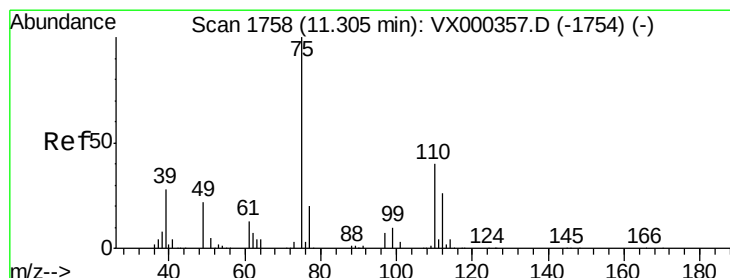
Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 24.22 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000384.D

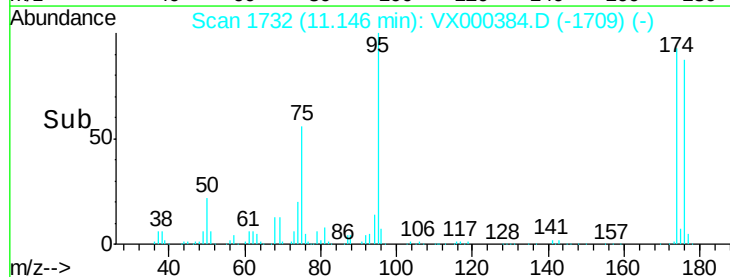
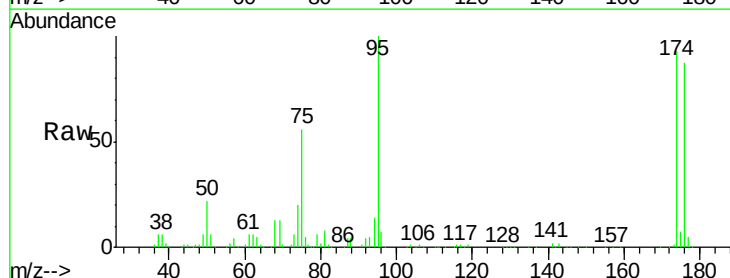
Acq: 21 Mar 2018 14:46

Tgt Ion: 75 Resp: 44795

Ion Ratio Lower Upper

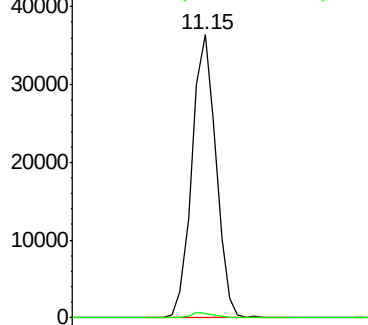
75 100

77 1.7 21.4 64.2#

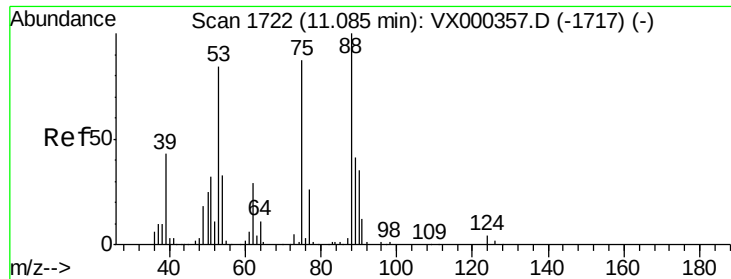


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



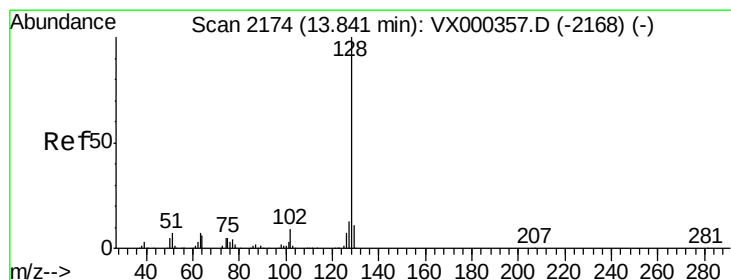
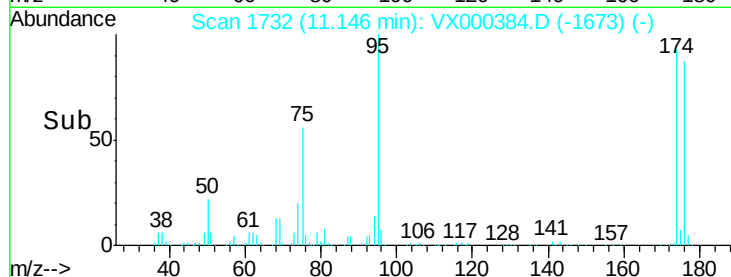
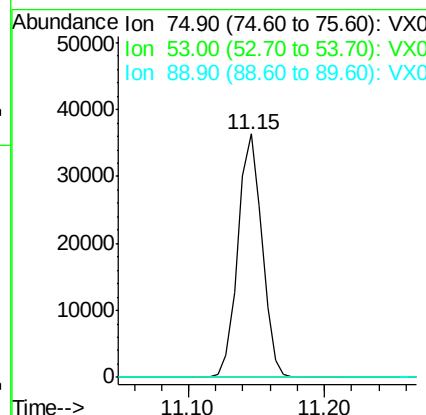
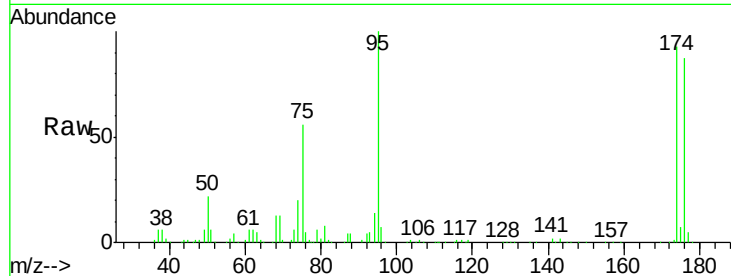
Time-->



#81
trans-1,4-Dichloro-2-butene
Concen: 78.41 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.06 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-B

Tgt Ion: 75 Resp: 44795
Ion Ratio Lower Upper
75 100
53 0.0 80.7 121.1#
89 0.0 39.4 59.0#



#95
Naphthalene
Concen: 3.08 ug/l
RT: 13.85 min Scan# 2175
Delta R.T. 0.01 min
Lab File: VX000384.D
Acq: 21 Mar 2018 14:46

Tgt Ion: 128 Resp: 21633
Ion Ratio Lower Upper
128 100
127 13.0 10.6 15.8
129 11.5 8.9 13.3

