

Data File : VX000513.D

Acq On : 29 Mar 2018 15:33

Operator : JC/MD

Sample : J2102-04 5X

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CHRT25382

Quant Time: Mar 30 06:52:36 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	5.67	168	131445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	239696	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	247791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	142562	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.08	65	97161	56.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.26%	
35) Dibromofluoromethane	5.51	113	73617	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
50) Toluene-d8	8.73	98	310090	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.15	95	118533	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	

Target Compounds

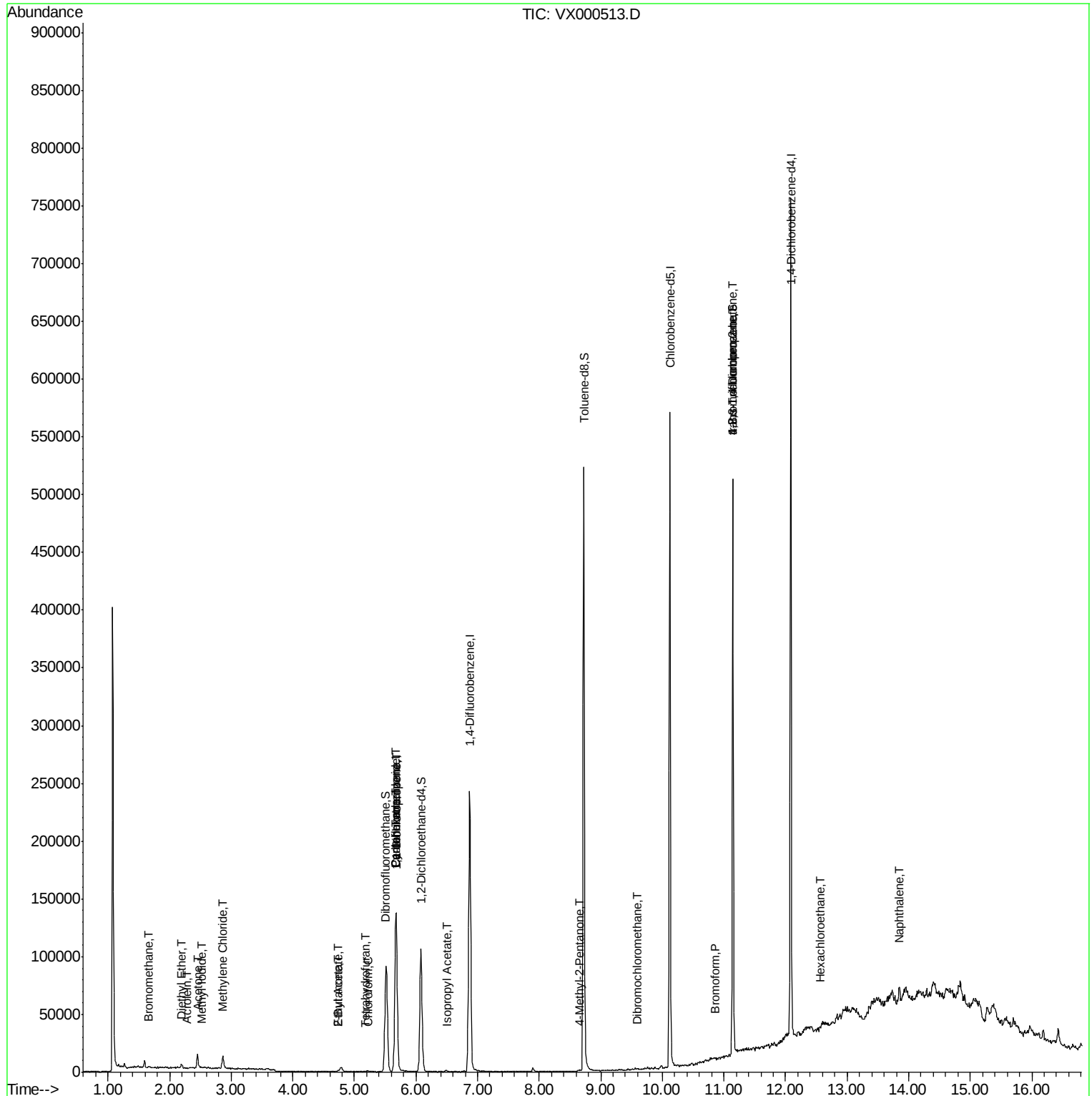
						Qvalue
5) Bromomethane	1.66	94	775	0.45	ug/l	# 58
6) Chloroethane	1.75	64	404	Below	Cal	# 44
8) Diethyl Ether	2.19	74	1402	1.35	ug/l	81
10) Methyl Iodide	2.53	142	557	4.59	ug/l	# 90
13) Acrolein	2.29	56	49	14.82	ug/l	# 13
14) Allyl chloride	2.74	41	139	Below	Cal	# 73
16) Acetone	2.45	43	12914	9.05	ug/l	95
20) Methylene Chloride	2.86	84	4661	2.83	ug/l	93
25) 2-Butanone	4.73	43	1607	1.00	ug/l	96
29) Tetrahydrofuran	5.18	42	365	0.37	ug/l	# 31
30) Chloroform	5.22	83	561	0.21	ug/l	# 79
31) Cyclohexane	5.67	56	3170	1.46	ug/l	# 30
36) 1,1-Dichloropropene	5.68	75	11195	4.99	ug/l	# 50
37) Ethyl Acetate	4.73	43	1607	0.52	ug/l	# 69
38) Carbon Tetrachloride	5.67	117	12954	5.50	ug/l	# 16
43) Isopropyl Acetate	6.49	43	1199	0.26	ug/l	# 82
51) 4-Methyl-2-Pentanone	8.66	43	1163	0.33	ug/l	# 78
60) Dibromochloromethane	9.59	129	51	4.14	ug/l	# 12
71) Bromoform	10.85	173	244	4.88	ug/l	# 27
74) N-amyl acetate	6.49	43	1199	Below	Cal	# 94
76) 1,2,3-Trichloropropane	11.15	75	65704	21.45	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	11.15	75	65704	69.43	ug/l	# 9
90) Hexachloroethane	12.56	117	592	0.43	ug/l	79
95) Naphthalene	13.85	128	6666	0.57	ug/l	# 76

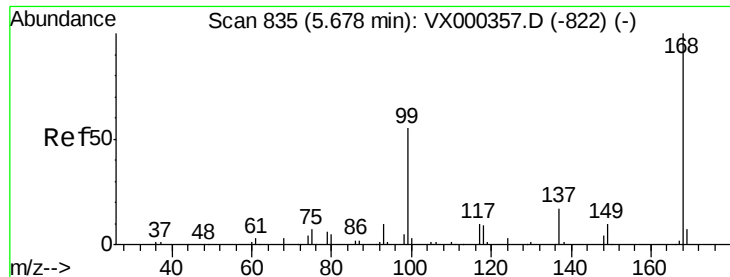
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 9 Sample Multiplier: 1

CHRT25382

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

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MSVOA_X

ClientSampleId :

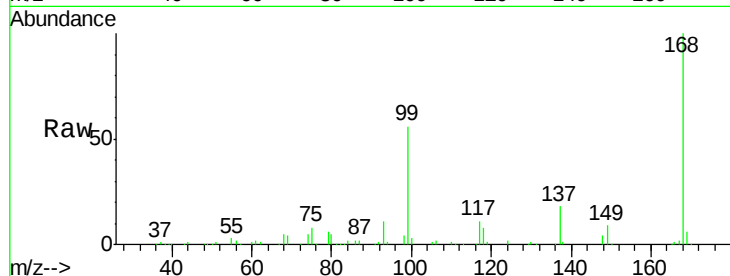
CHRT25382

Tgt Ion:168 Resp: 131445

Ion Ratio Lower Upper

168 100

99 56.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

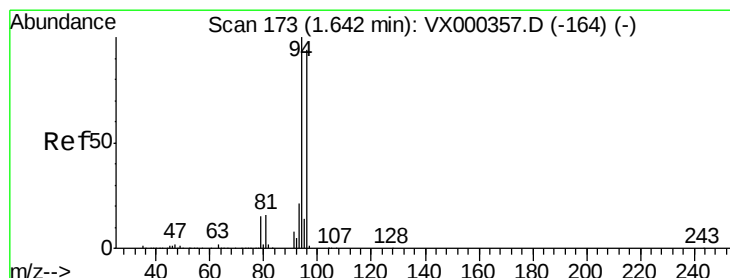
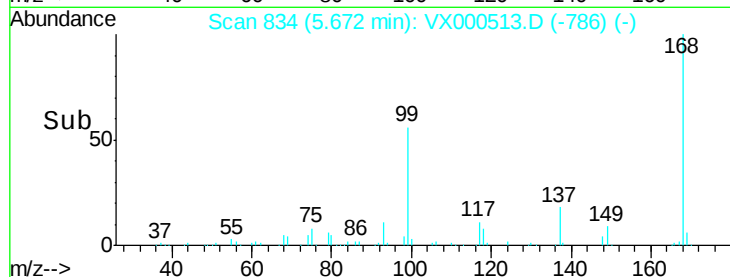
20000

10000

0

5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.45 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000513.D

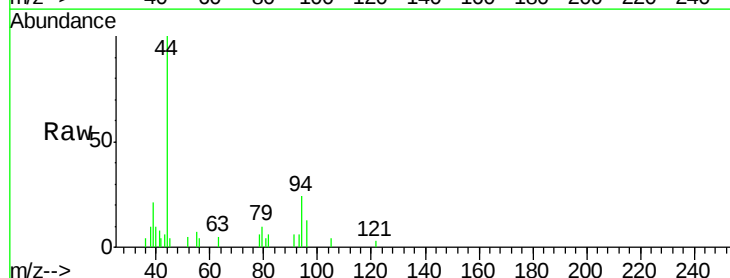
Acq: 29 Mar 2018 15:33

Tgt Ion: 94 Resp: 775

Ion Ratio Lower Upper

94 100

96 55.4 77.7 116.5#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

500

400

300

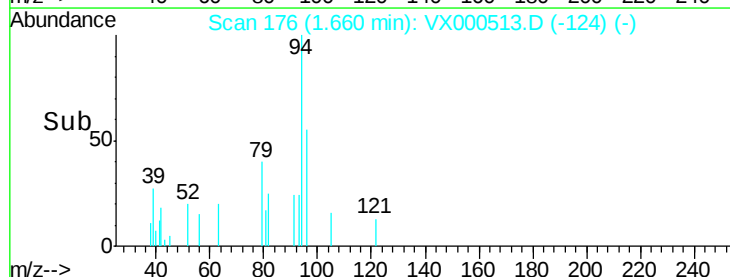
200

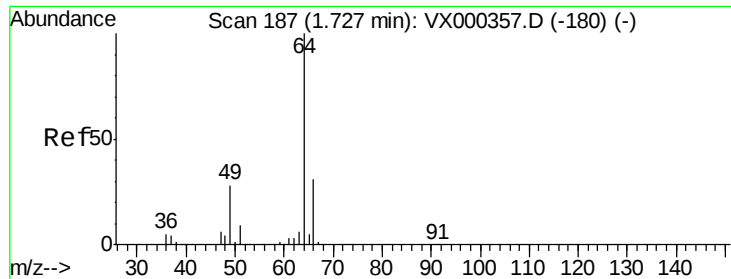
100

0

1.60 1.65 1.70

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

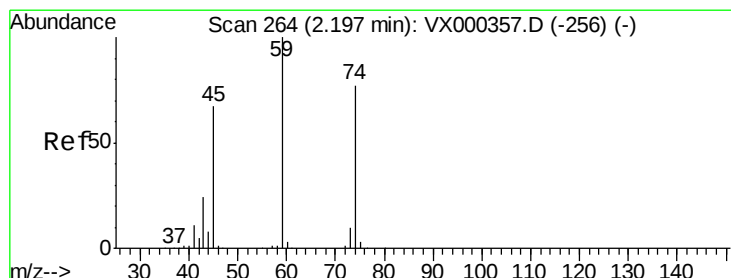
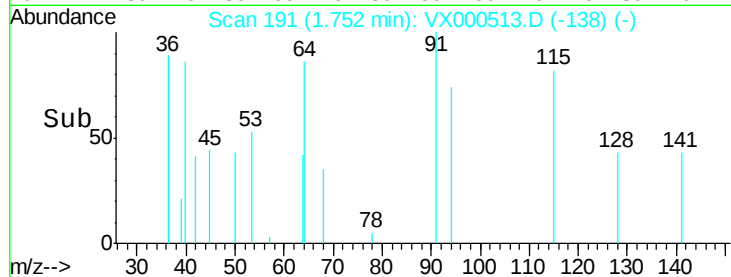
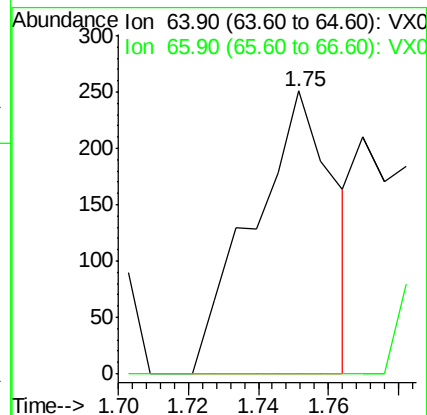
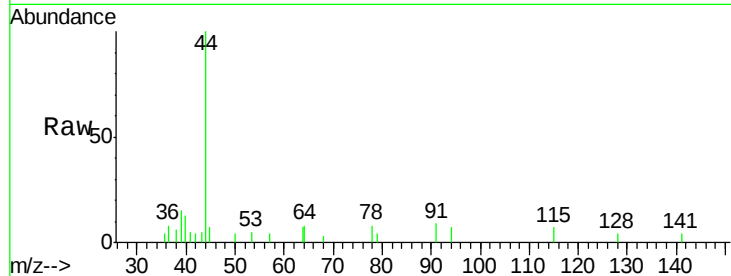
CHRT25382

Tgt Ion: 64 Resp: 404

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



#8

Diethyl Ether

Concen: 1.35 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX000513.D

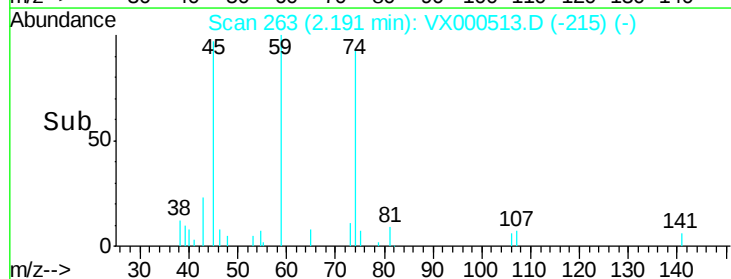
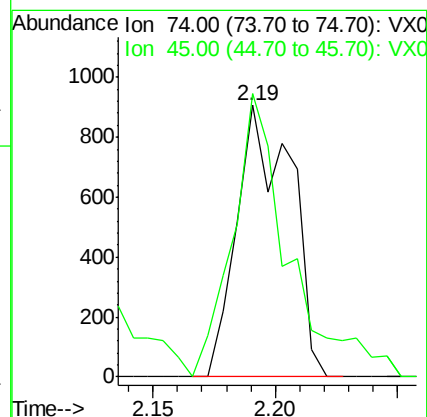
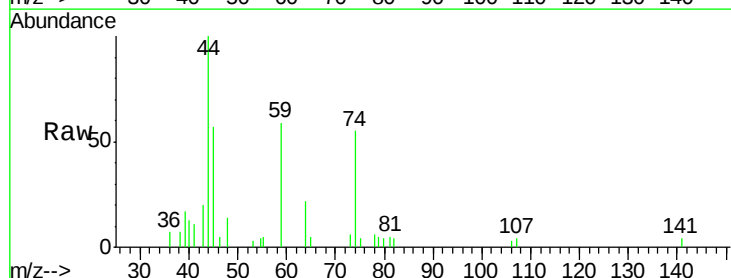
Acq: 29 Mar 2018 15:33

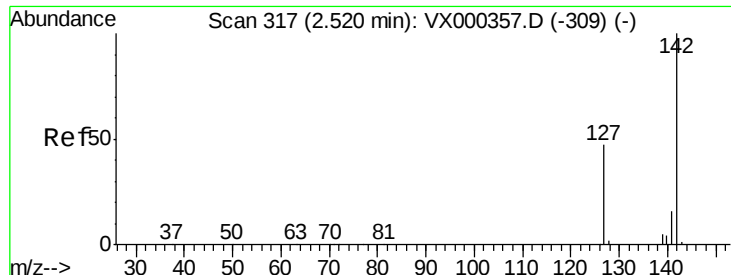
Tgt Ion: 74 Resp: 1402

Ion Ratio Lower Upper

74 100

45 108.1 45.1 135.3

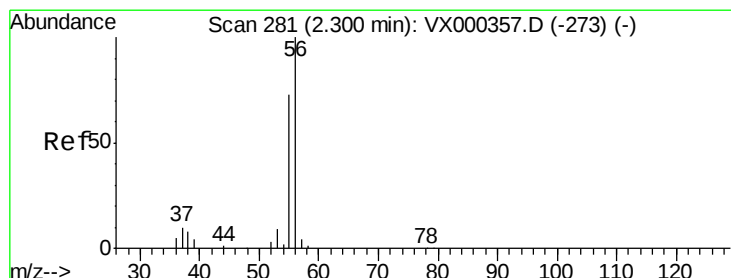
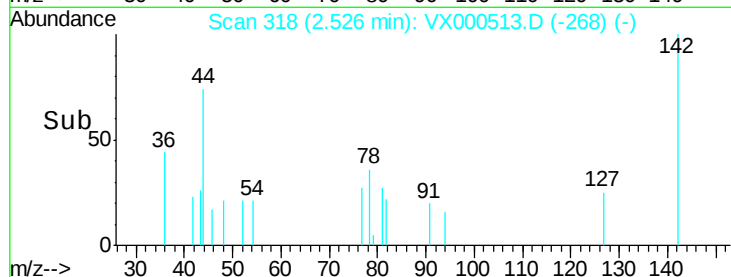
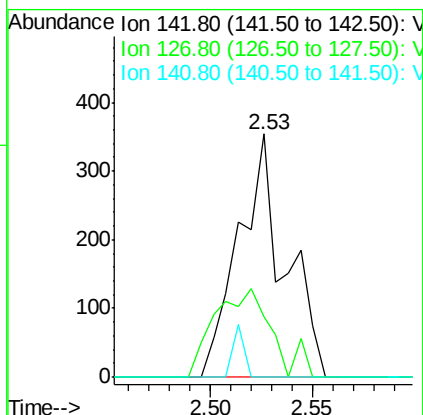
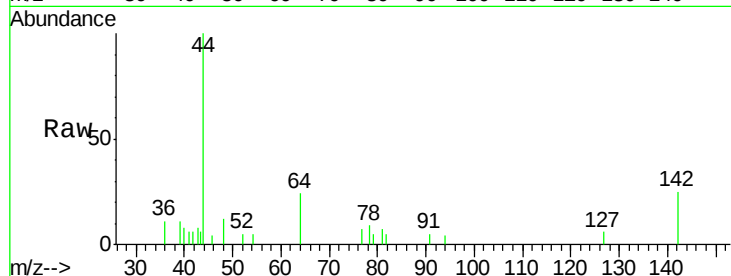




#10
Methyl Iodide
Concen: 4.59 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

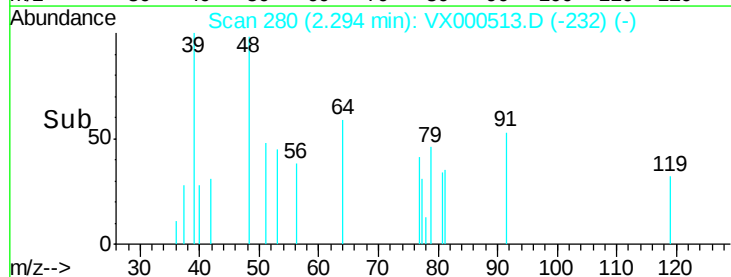
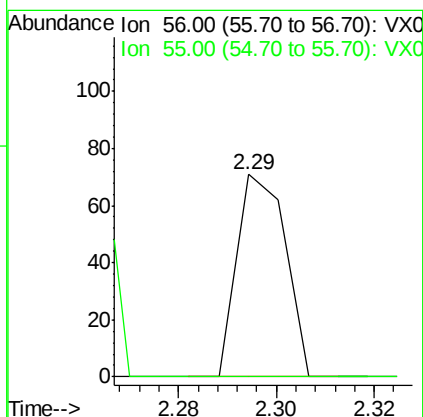
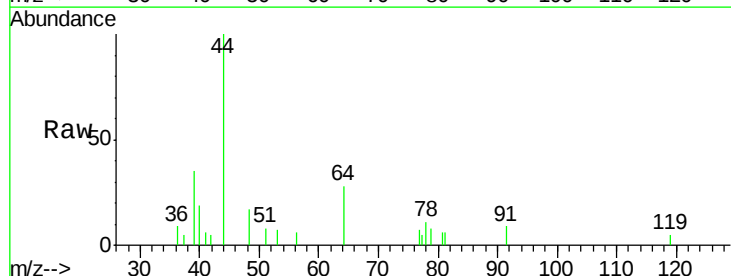
Instrument :
MSVOA_X
ClientSampleId :
CHRT25382

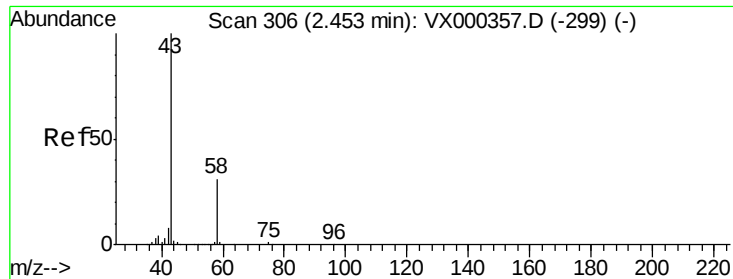
Tgt Ion:142 Resp: 557
Ion Ratio Lower Upper
142 100
127 45.2 39.2 58.8
141 5.0 11.7 17.5#



#13
Acrolein
Concen: 14.82 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.01 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

Tgt Ion: 56 Resp: 49
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#





#16

Acetone

Concen: 9.05 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

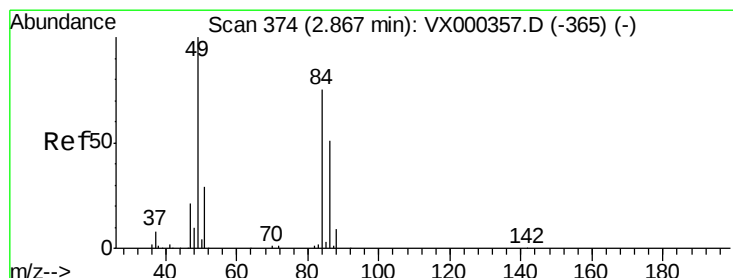
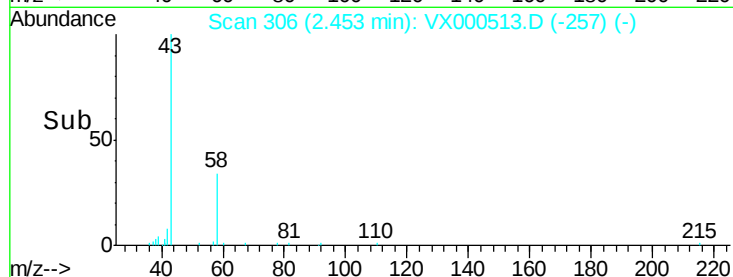
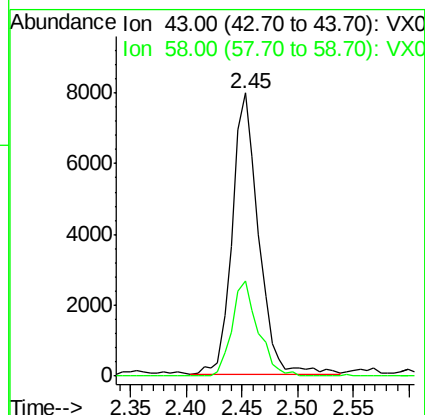
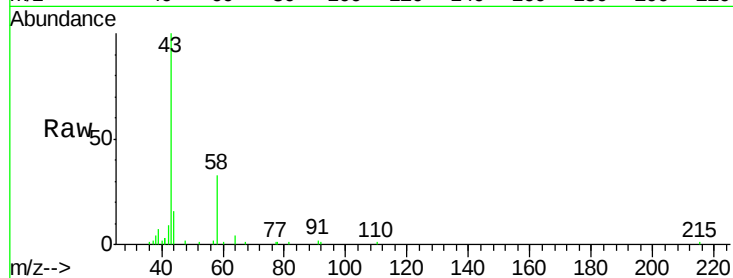
CHRT25382

Tgt Ion: 43 Resp: 12914

Ion Ratio Lower Upper

43 100

58 33.7 24.7 37.1



#20

Methylene Chloride

Concen: 2.83 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.01 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Tgt Ion: 84 Resp: 4661

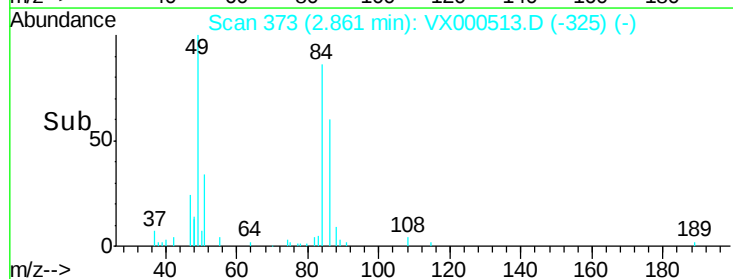
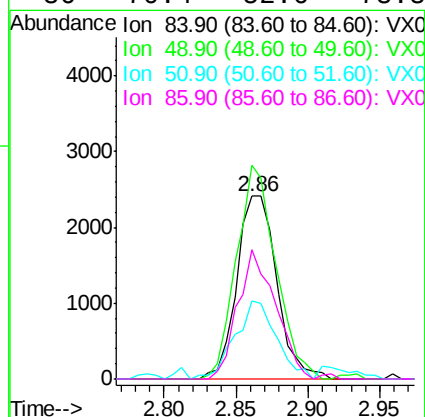
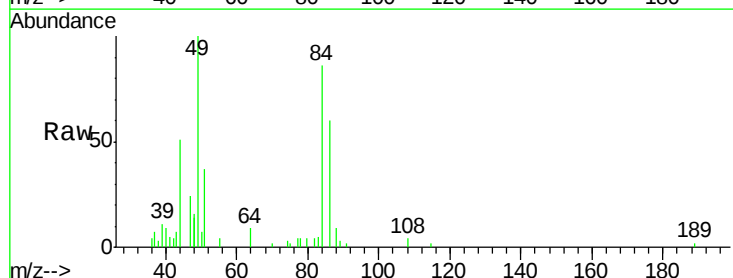
Ion Ratio Lower Upper

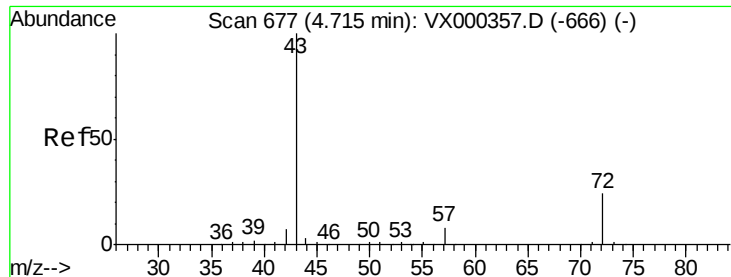
84 100

49 116.8 100.6 151.0

51 42.9 31.6 47.4

86 70.4 52.6 78.8





#25

2-Butanone

Concen: 1.00 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampled :

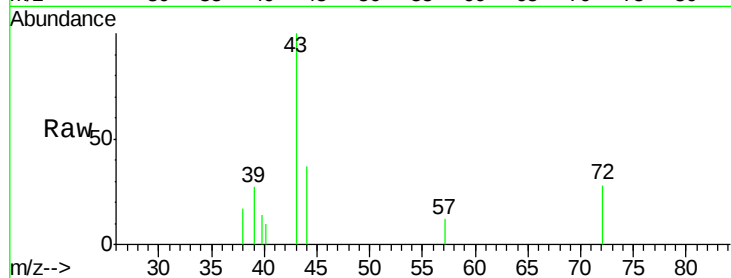
CHRT25382

Tgt Ion: 43 Resp: 1607

Ion Ratio Lower Upper

43 100

72 28.3 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.73

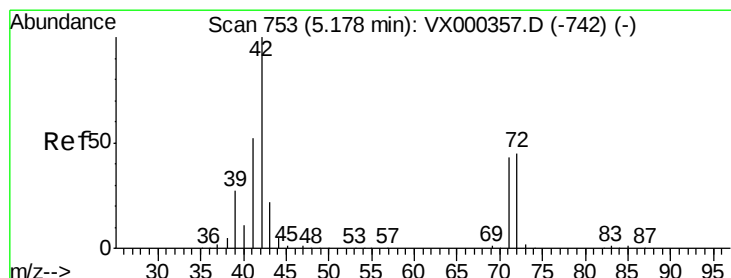
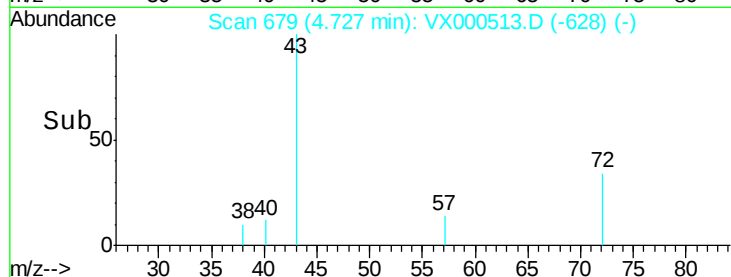
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

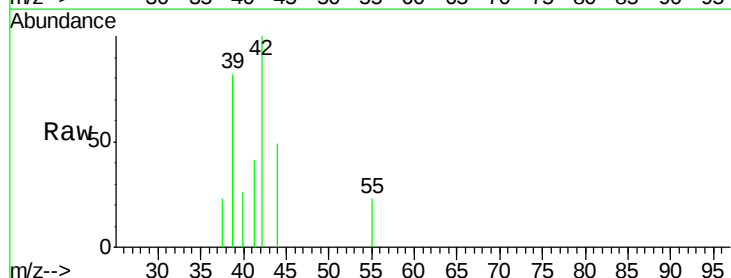
Tgt Ion: 42 Resp: 365

Ion Ratio Lower Upper

42 100

72 0.0 37.9 56.9#

71 0.0 34.4 51.6#



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

5.18

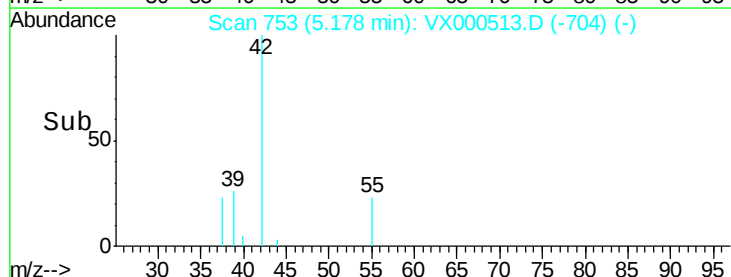
300

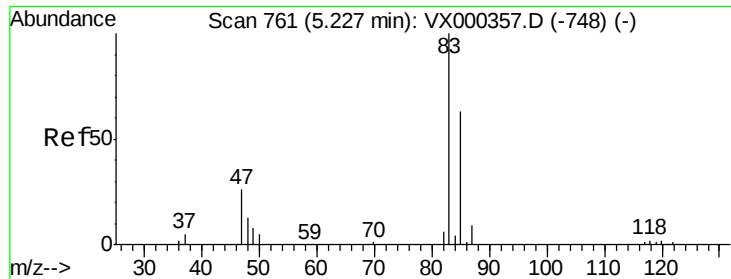
200

100

0

Time-->

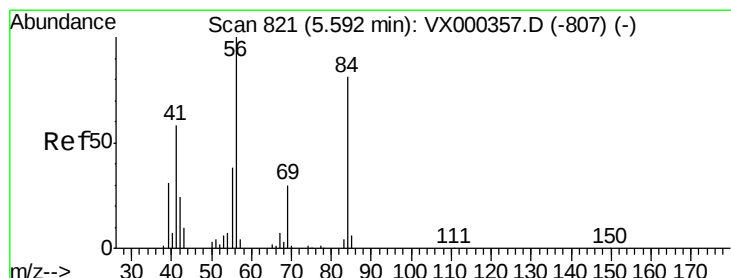
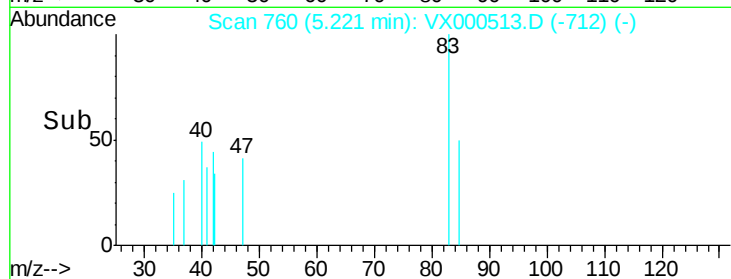
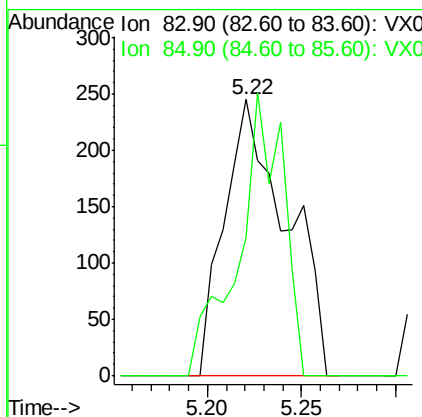
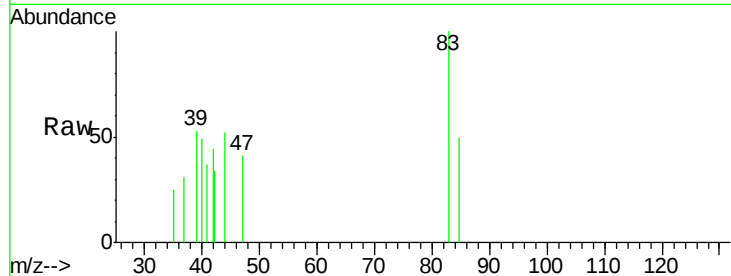




#30
Chloroform
Concen: 0.21 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.01 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

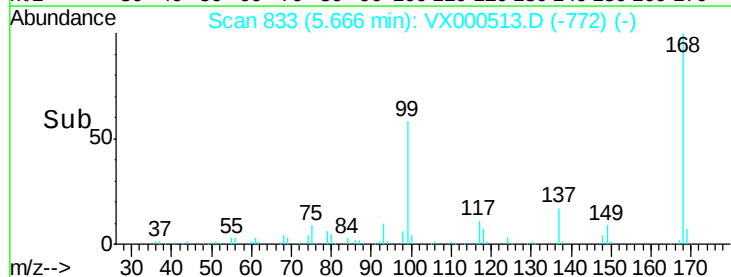
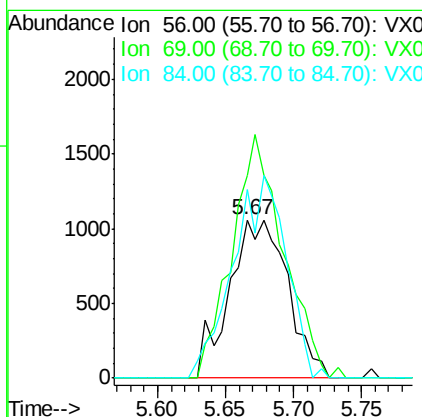
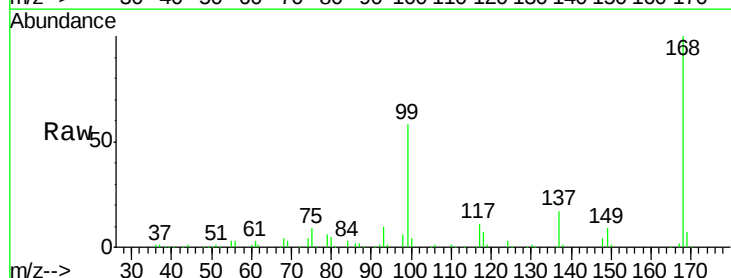
Instrument :
MSVOA_X
ClientSampleId :
CHRT25382

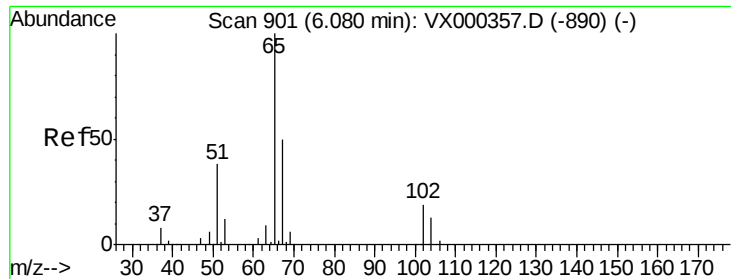
Tgt Ion: 83 Resp: 561
Ion Ratio Lower Upper
83 100
85 50.2 53.3 79.9#



#31
Cyclohexane
Concen: 1.46 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.07 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

Tgt Ion: 56 Resp: 3170
Ion Ratio Lower Upper
56 100
69 127.9 23.4 35.0#
84 118.7 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 56.63 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

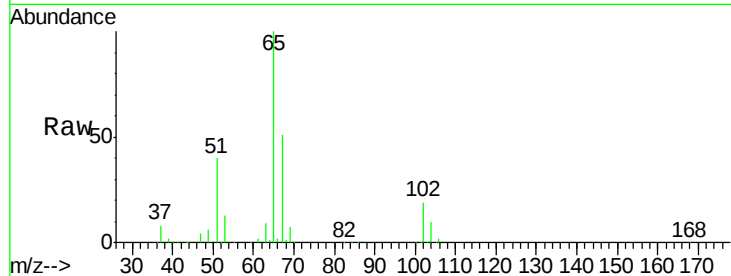
CHRT25382

Tgt Ion: 65 Resp: 97161

Ion Ratio Lower Upper

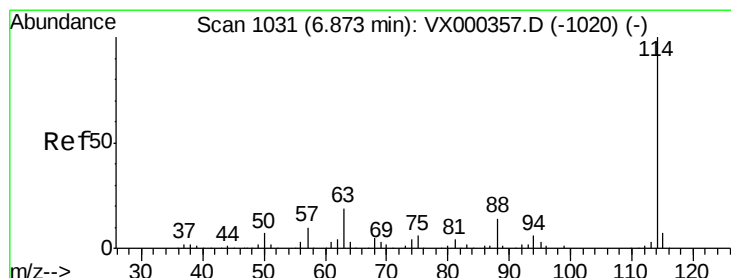
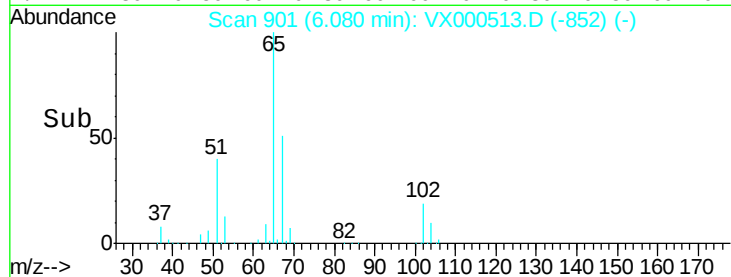
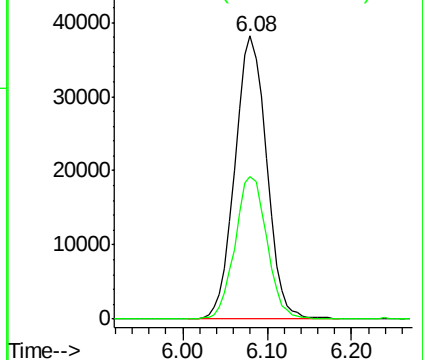
65 100

67 50.4 0.0 103.2



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# 1031

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

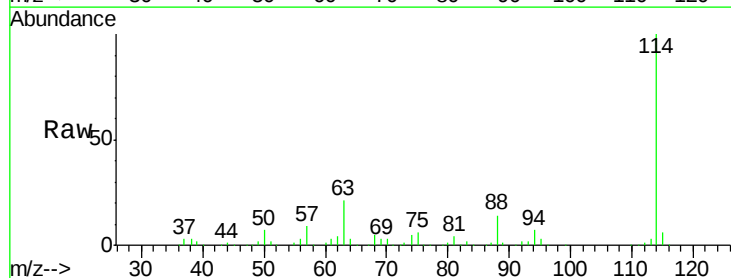
Tgt Ion: 114 Resp: 239696

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

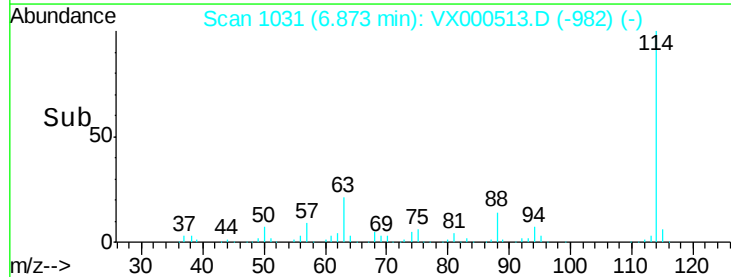
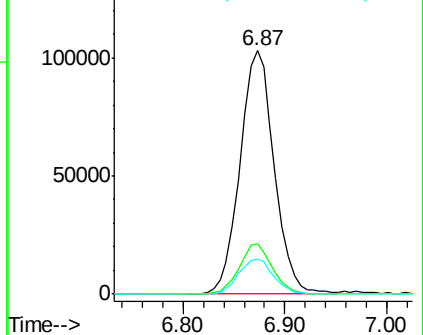
88 14.2 0.0 27.0

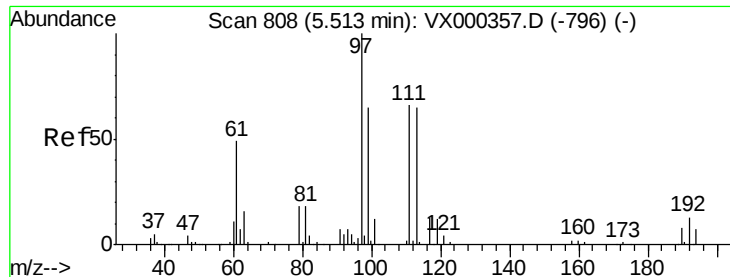


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.74 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

CHRT25382

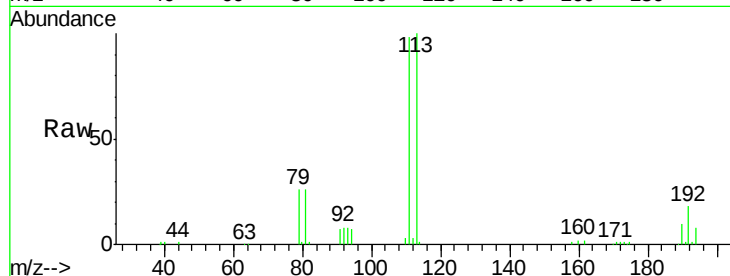
Tgt Ion:113 Resp: 73617

Ion Ratio Lower Upper

113 100

111 103.8 82.4 123.6

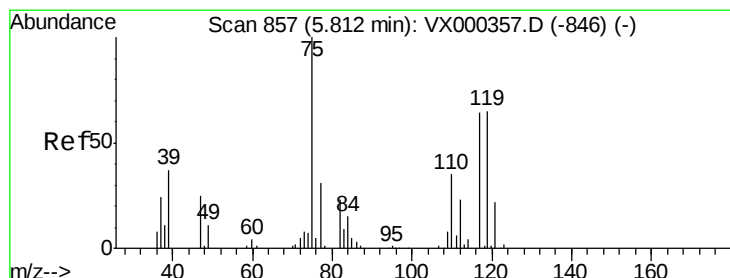
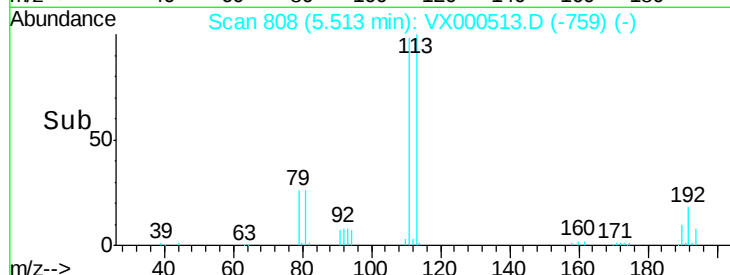
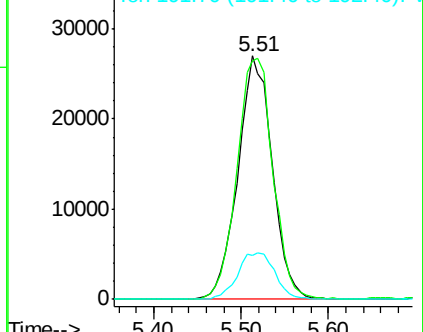
192 20.6 15.8 23.6



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: 4.99 ug/l

RT: 5.68 min Scan# 836

Delta R.T. -0.13 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

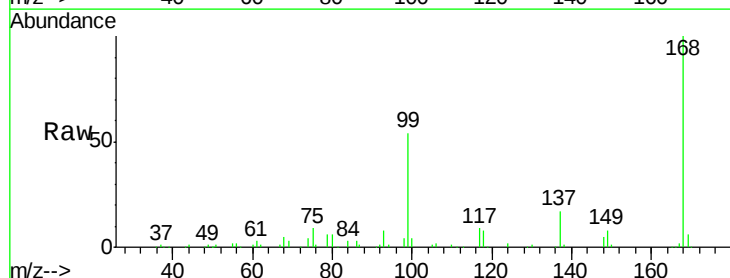
Tgt Ion: 75 Resp: 11195

Ion Ratio Lower Upper

75 100

110 9.5 17.9 53.7#

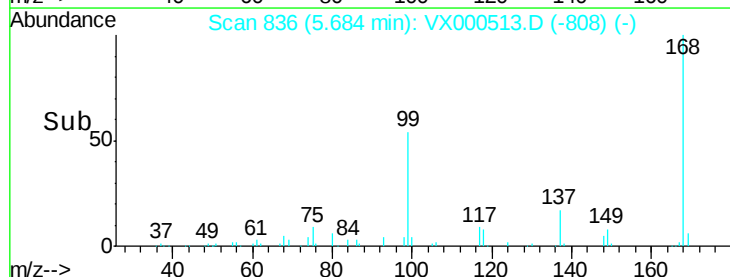
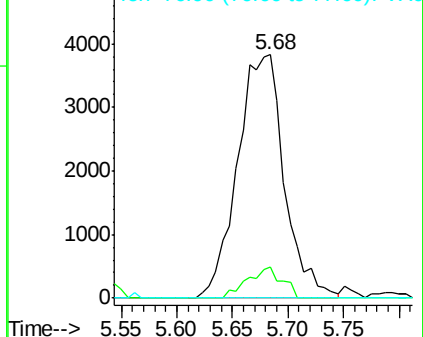
77 0.0 24.0 36.0#

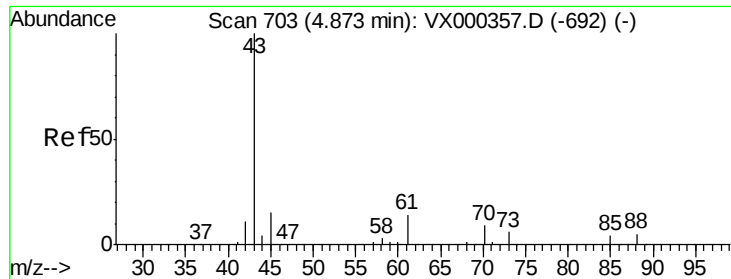


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 0.52 ug/l

RT: 4.73 min Scan# 679

Delta R.T. -0.15 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

CHRT25382

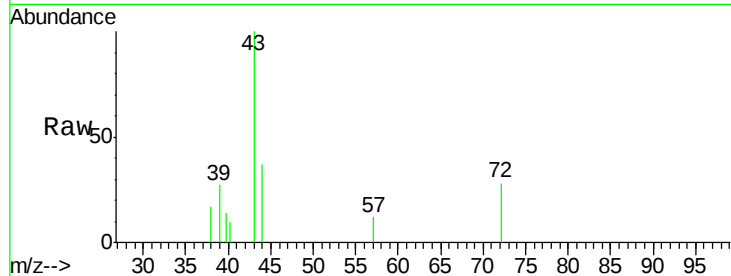
Tgt Ion: 43 Resp: 1607

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

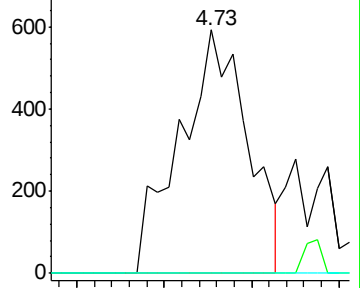
70 0.0 7.7 11.5#



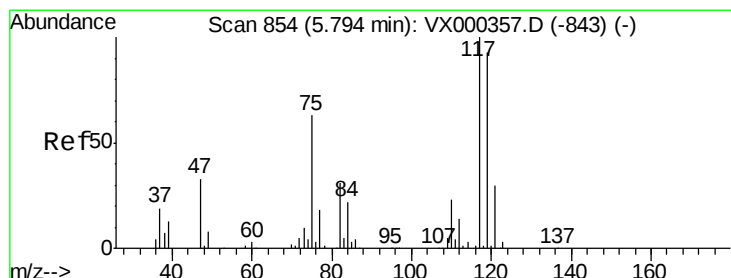
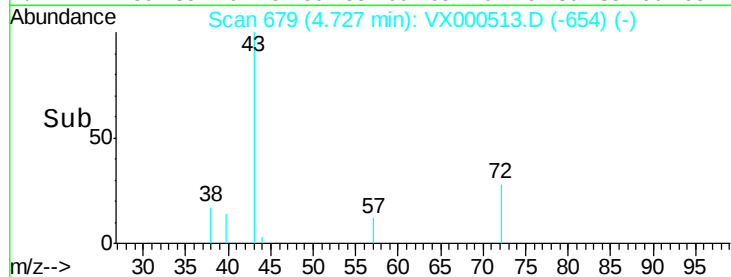
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



Time-->



#38

Carbon Tetrachloride

Concen: 5.50 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

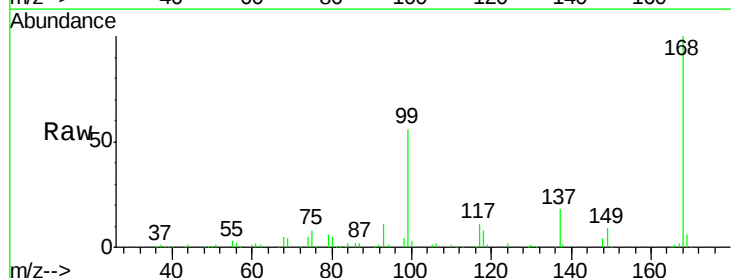
Tgt Ion: 117 Resp: 12954

Ion Ratio Lower Upper

117 100

119 5.3 77.4 116.2#

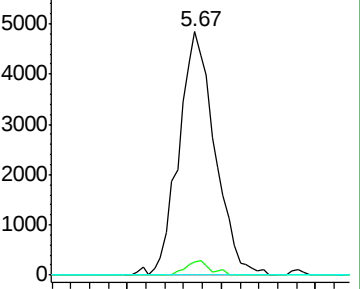
121 0.0 24.8 37.2#



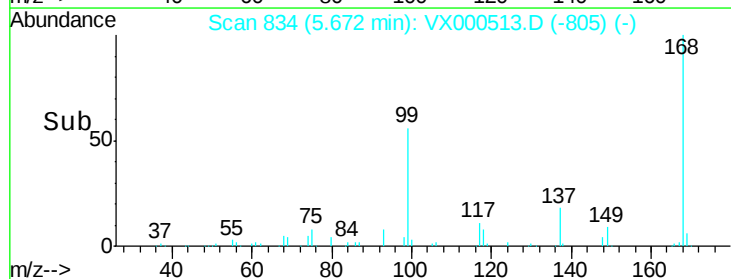
Abundance Ion 116.80 (116.50 to 117.50): V

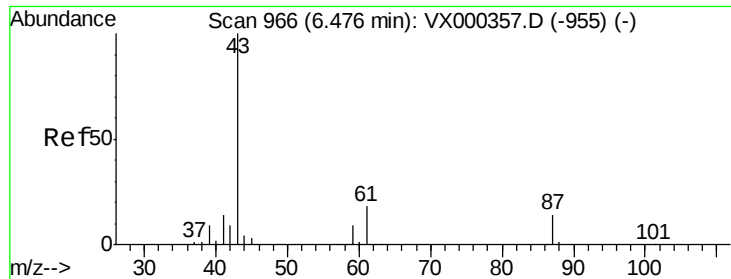
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->





#43

Isopropyl Acetate

Concen: 0.26 ug/l

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

CHRT25382

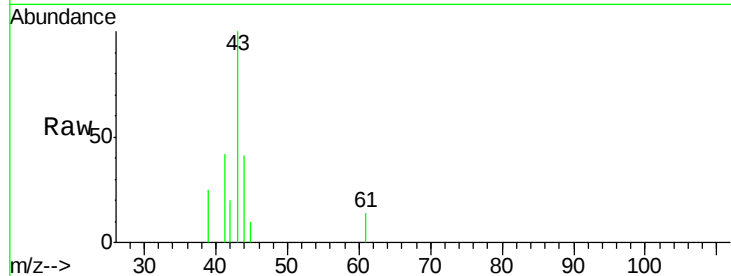
Tgt Ion: 43 Resp: 1199

Ion Ratio Lower Upper

43 100

61 20.7 14.4 21.6

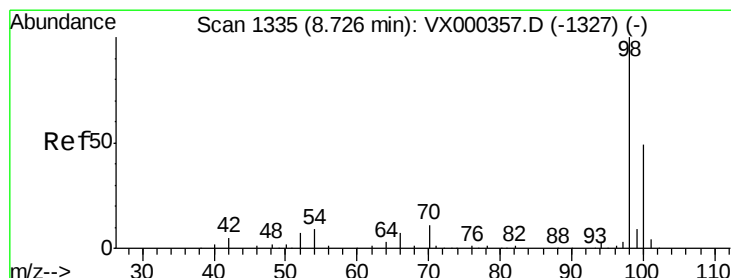
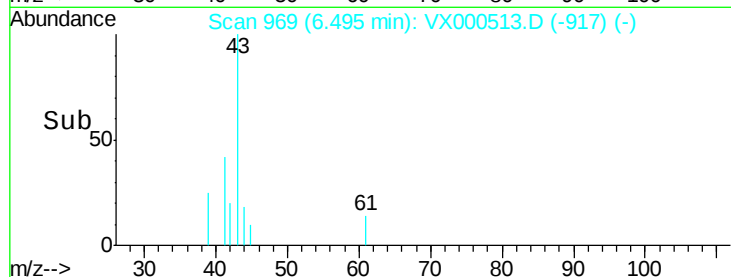
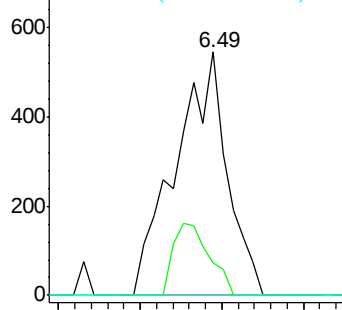
87 0.0 11.0 16.4#



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: 49.57 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VX000513.D

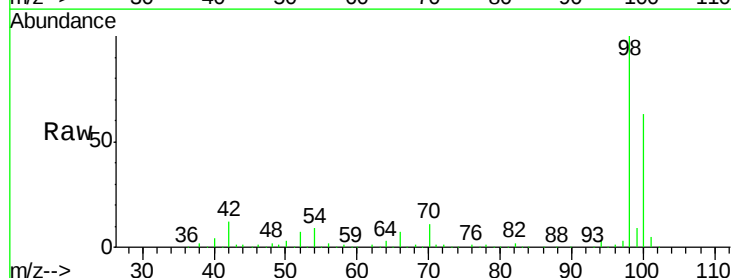
Acq: 29 Mar 2018 15:33

Tgt Ion: 98 Resp: 310090

Ion Ratio Lower Upper

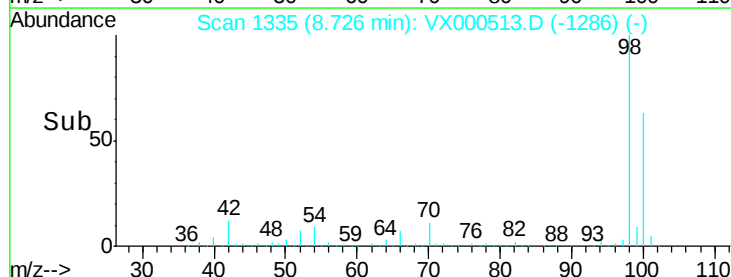
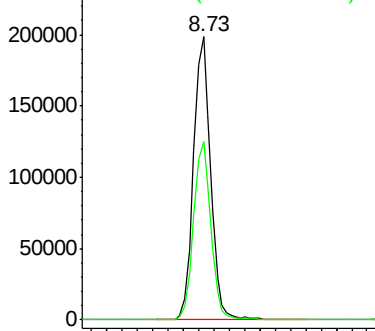
98 100

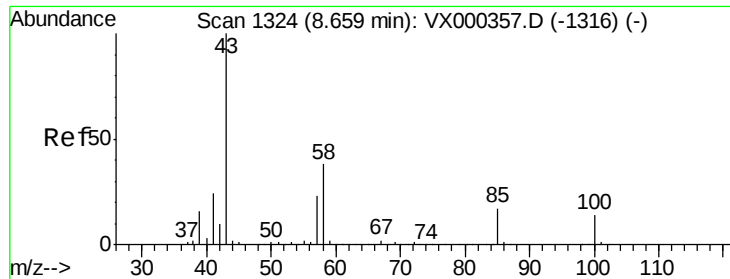
100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.33 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

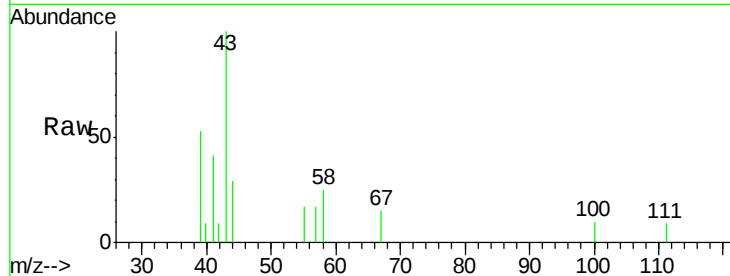
CHRT25382

Tgt Ion: 43 Resp: 1163

Ion Ratio Lower Upper

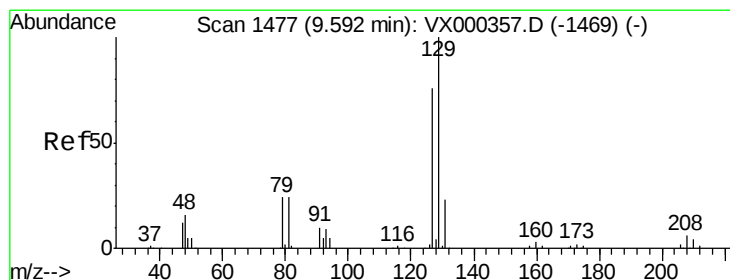
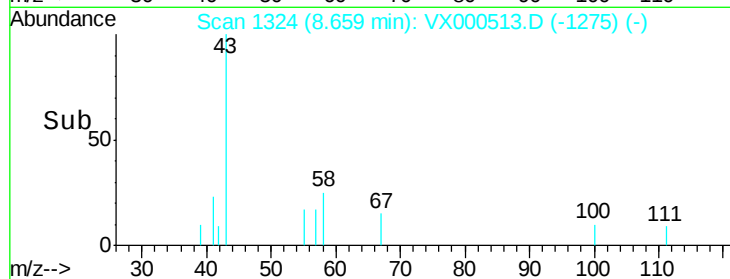
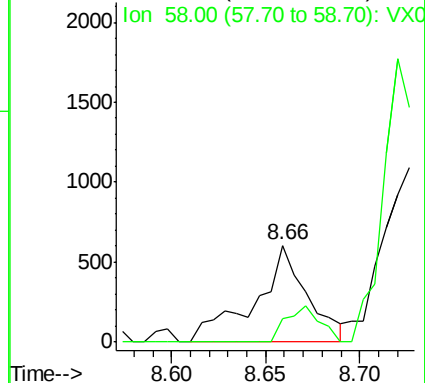
43 100

58 24.4 30.3 45.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 4.14 ug/l

RT: 9.59 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX000513.D

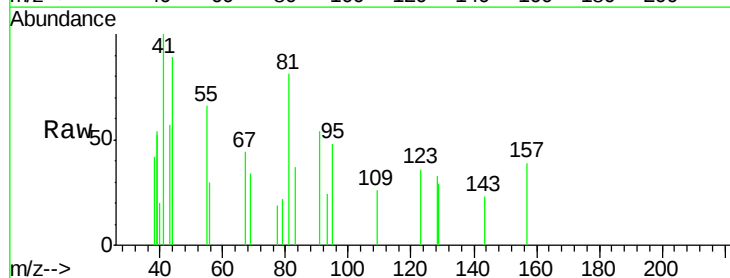
Acq: 29 Mar 2018 15:33

Tgt Ion: 129 Resp: 51

Ion Ratio Lower Upper

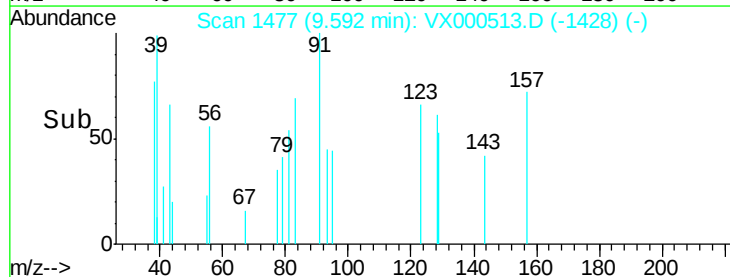
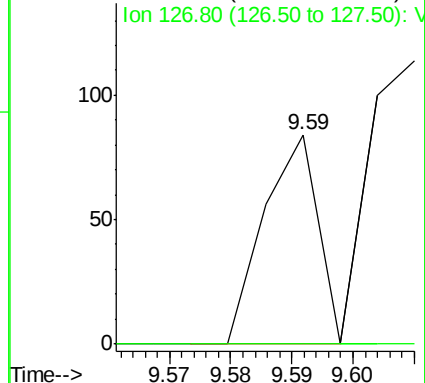
129 100

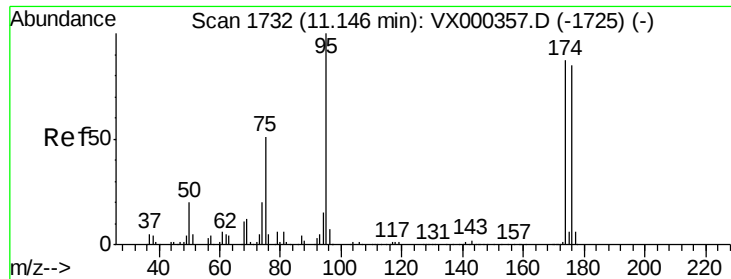
127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.48 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

CHRT25382

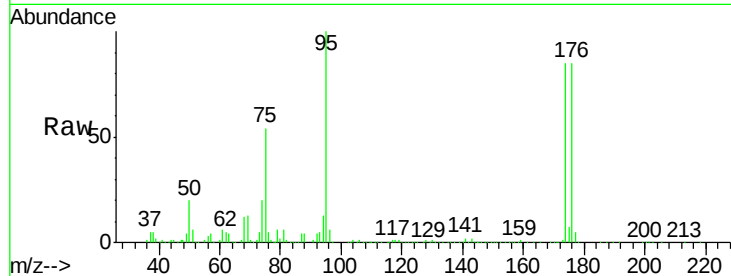
Tgt Ion: 95 Resp: 118533

Ion Ratio Lower Upper

95 100

174 85.7 0.0 173.6

176 82.9 0.0 164.6



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

120000

100000

80000

60000

40000

20000

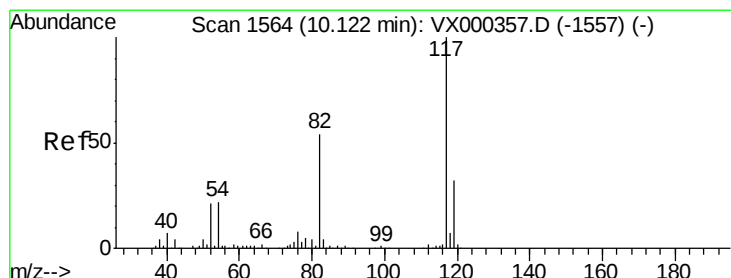
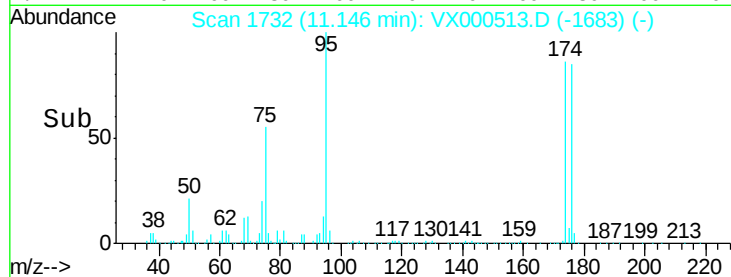
0

11.10

11.15

11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

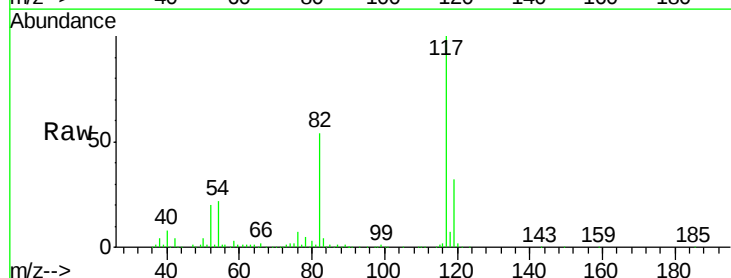
Tgt Ion: 117 Resp: 247791

Ion Ratio Lower Upper

117 100

82 54.1 43.8 65.8

119 32.1 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

250000

200000

150000

100000

50000

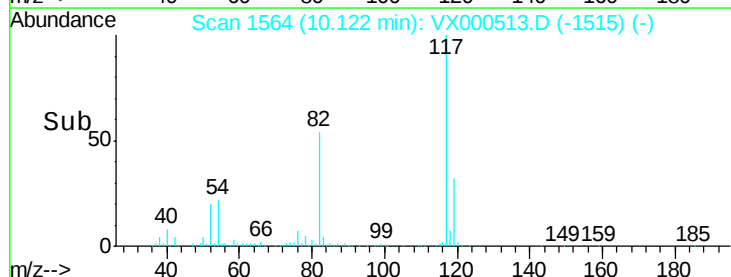
0

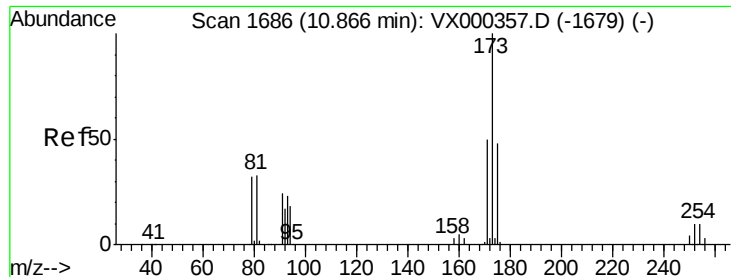
10.10

10.12

10.20

Time-->





#71

Bromoform

Concen: 4.88 ug/l

RT: 10.85 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampled :

CHRT25382

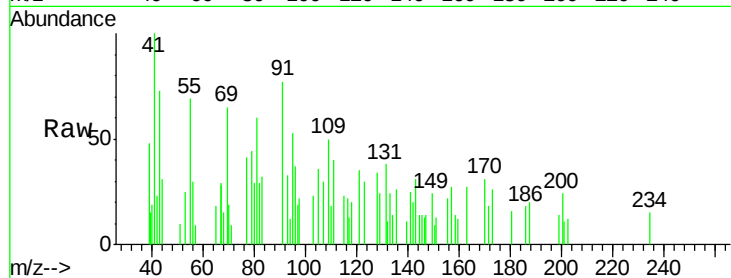
Tgt Ion:173 Resp: 244

Ion Ratio Lower Upper

173 100

175 0.0 25.4 76.4#

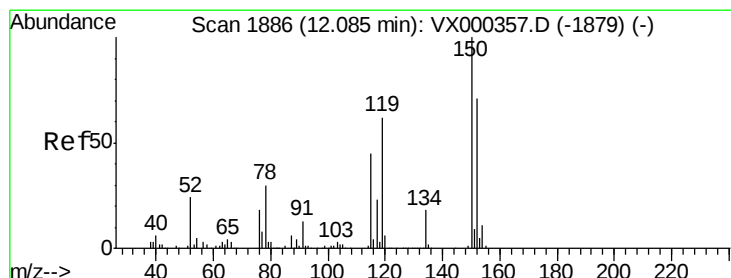
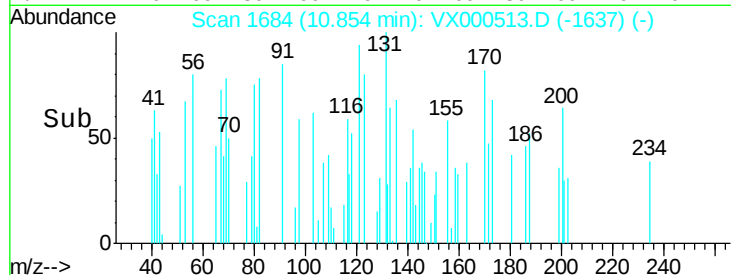
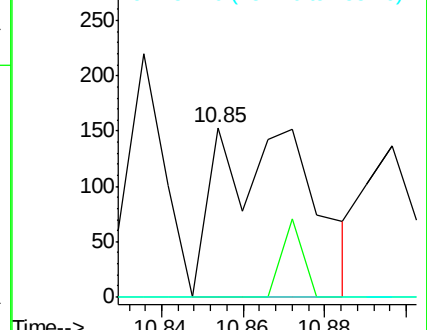
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

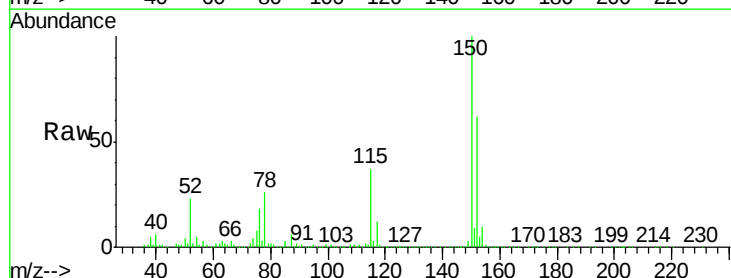
Tgt Ion:152 Resp: 142562

Ion Ratio Lower Upper

152 100

115 57.0 39.8 119.3

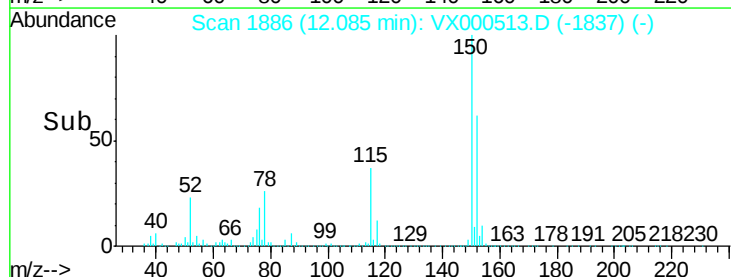
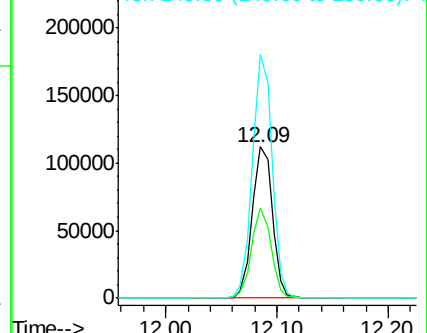
150 155.9 0.0 344.4

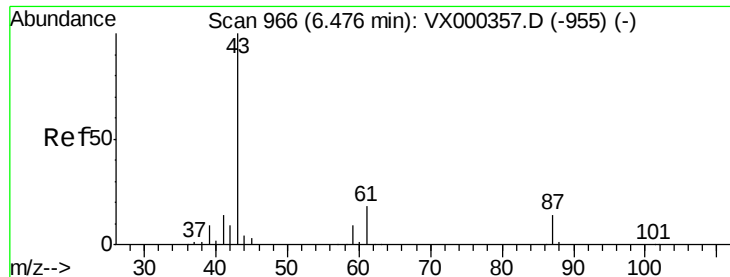


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: Below Cal

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX000513.D

Acq: 29 Mar 2018 15:33

Instrument :

MSVOA_X

ClientSampleId :

CHRT25382

Tgt Ion: 43 Resp: 1199

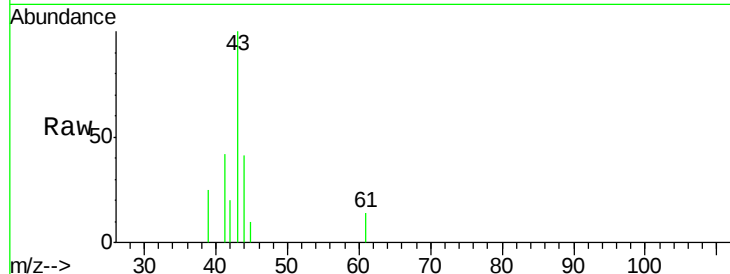
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 20.7 14.4 21.6

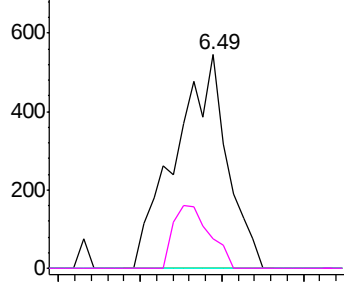


Abundance Ion 43.00 (42.70 to 43.70): VX0

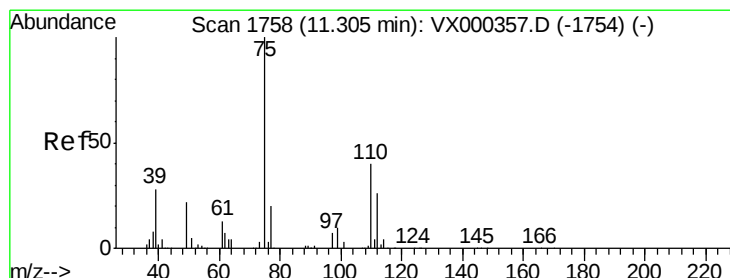
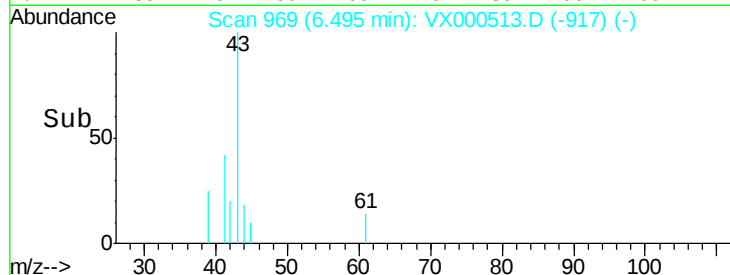
Ion 70.00 (69.70 to 70.70): VX0

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: 21.45 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000513.D

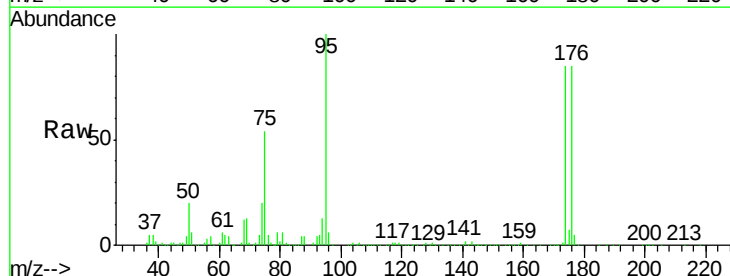
Acq: 29 Mar 2018 15:33

Tgt Ion: 75 Resp: 65704

Ion Ratio Lower Upper

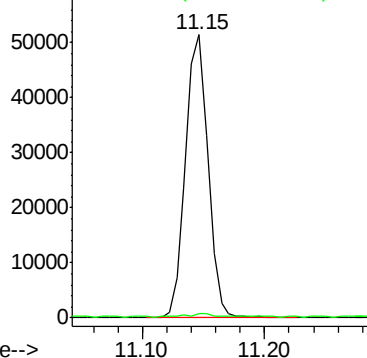
75 100

77 1.5 21.4 64.2#

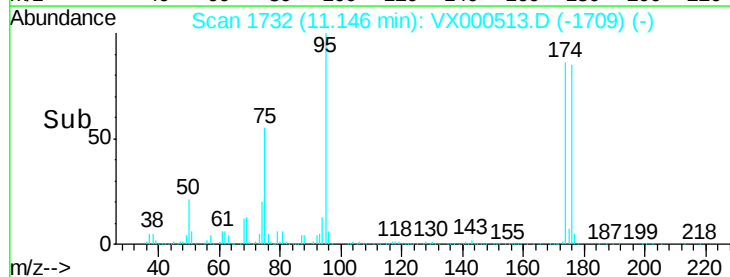


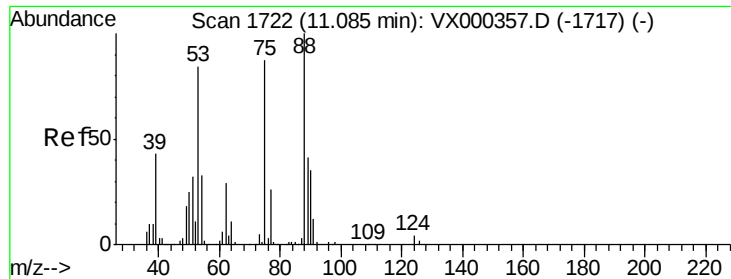
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->

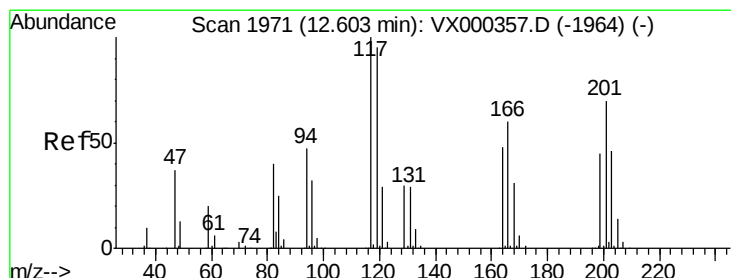
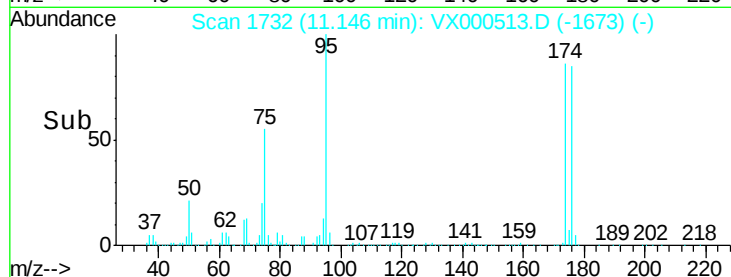
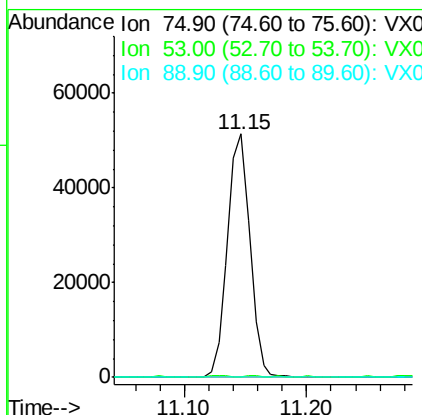
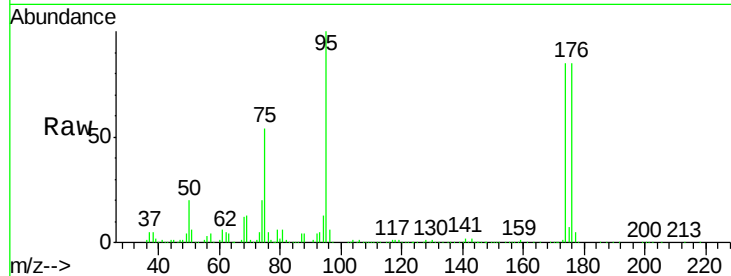




#81
trans-1,4-Dichloro-2-butene
Concen: 69.43 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.06 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

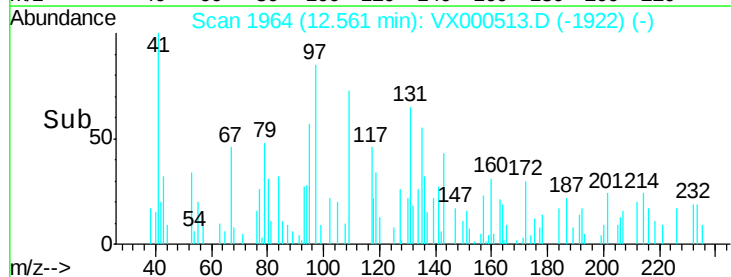
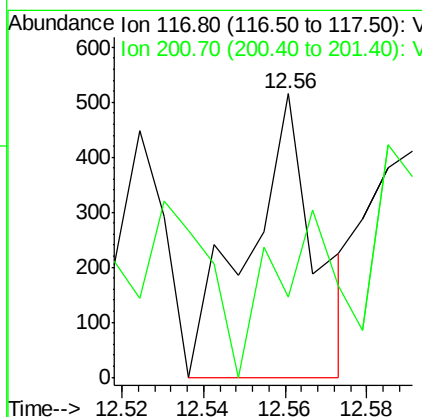
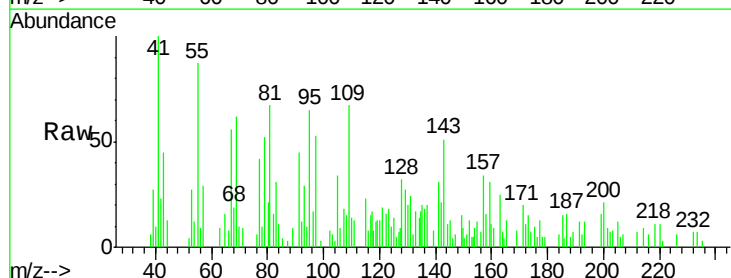
Instrument :
MSVOA_X
ClientSampleId :
CHRT25382

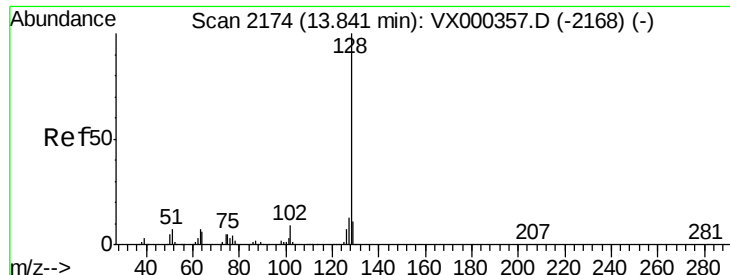
Tgt Ion: 75 Resp: 65704
Ion Ratio Lower Upper
75 100
53 0.2 80.7 121.1#
89 0.0 39.4 59.0#



#90
Hexachloroethane
Concen: 0.43 ug/l
RT: 12.56 min Scan# 1964
Delta R.T. -0.04 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

Tgt Ion: 117 Resp: 592
Ion Ratio Lower Upper
117 100
201 57.9 37.9 113.6

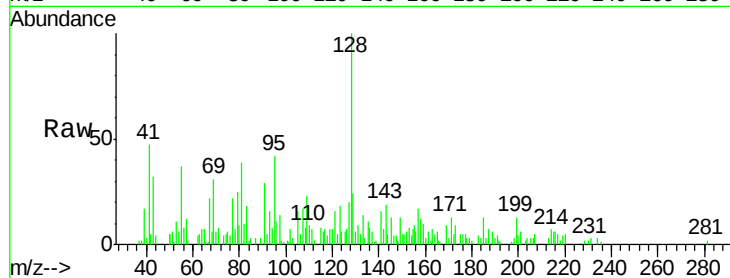




#95
Naphthalene
Concen: 0.57 ug/l
RT: 13.85 min Scan# 2175
Delta R.T. 0.01 min
Lab File: VX000513.D
Acq: 29 Mar 2018 15:33

Instrument :
MSVOA_X
ClientSampleId :
CHRT25382

Tgt Ion	Ratio	Lower	Upper
128	100		
127	19.8	10.6	15.8#
129	23.4	8.9	13.3#



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

