

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061118\
 Data File : VX002454.D
 Acq On : 11 Jun 2018 20:15
 Operator : JC/MD
 Sample : J3406-15
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW152-180607

Quant Time: Jun 12 01:54:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	212903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313509	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	288249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157274	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	175670	58.27	ug/l	0.00
Spiked Amount			Recovery	=	116.54%	
35) Dibromofluoromethane	5.51	113	131578	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	
50) Toluene-d8	8.72	98	506641	53.61	ug/l	0.00
Spiked Amount			Recovery	=	107.22%	
62) 4-Bromofluorobenzene	11.14	95	175798	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	

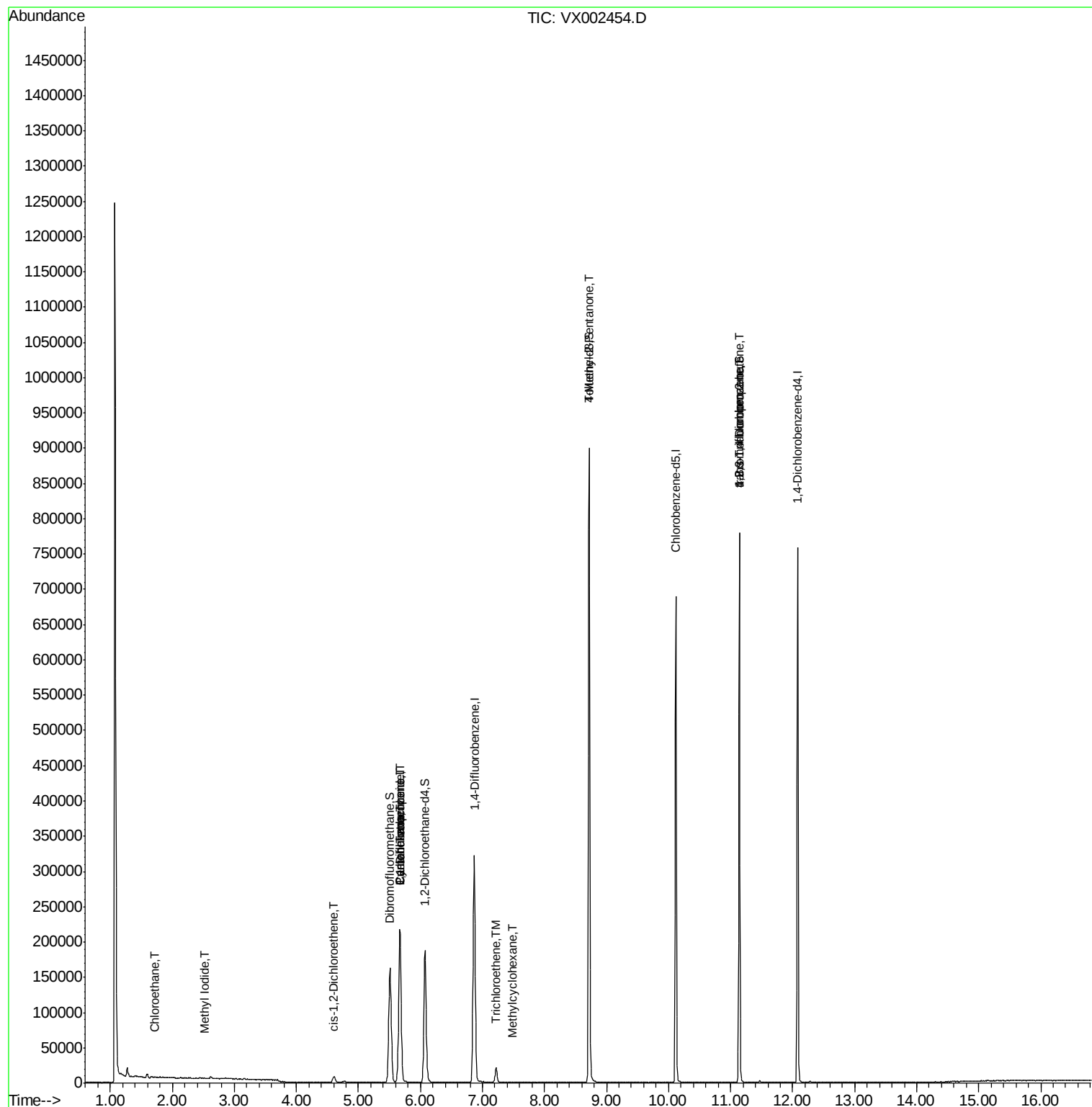
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	498	Below Cal	#	80
5) Bromomethane	1.66	94	1288	Below Cal		87
6) Chloroethane	1.71	64	422	0.23	ug/l	# 43
8) Diethyl Ether	2.18	74	73	Below Cal		53
10) Methyl Iodide	2.53	142	894	0.28	ug/l	# 78
11) Tert butyl alcohol	3.08	59	42	Below Cal	#	1
13) Acrolein	2.31	56	102	Below Cal	#	1
15) Acrylonitrile	3.16	53	244	Below Cal	#	50
16) Acetone	2.45	43	677	Below Cal		90
18) Methyl Acetate	2.79	43	60	Below Cal	#	55
19) Methyl tert-butyl Ether	3.21	73	84	Below Cal	#	54
20) Methylene Chloride	2.86	84	271	Below Cal	#	77
22) Diisopropyl ether	3.88	45	44	Below Cal	#	35
27) cis-1,2-Dichloroethene	4.60	96	4798	1.77	ug/l	97
28) Bromochloromethane	5.03	49	50	Below Cal	#	13
31) Cyclohexane	5.67	56	4685	1.22	ug/l	# 19
36) 1,1-Dichloropropene	5.67	75	15776	4.79	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	20677	6.00	ug/l	# 15
39) Methylcyclohexane	7.48	83	20	0.27	ug/l	# 16
44) Trichloroethene	7.22	130	8078	2.88	ug/l	99
51) 4-Methyl-2-Pentanone	8.71	43	2918	0.70	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	96016	27.82	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96016	97.53	ug/l	# 6

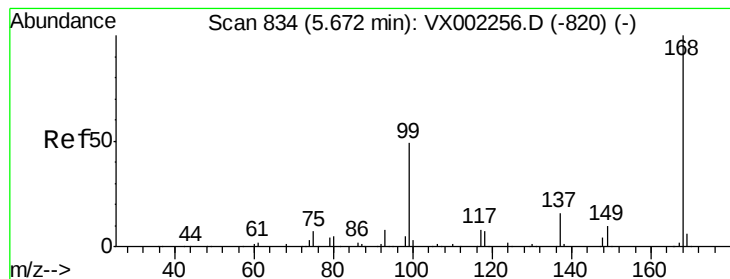
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX061118\
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QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

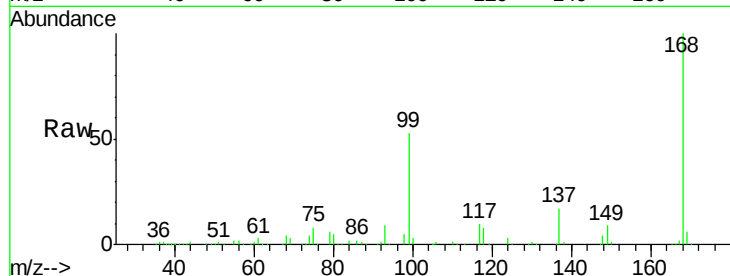
SS050MW152-180607

Tgt Ion: 168 Resp: 212903

Ion Ratio Lower Upper

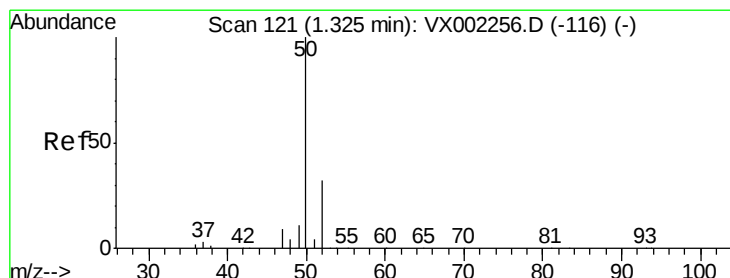
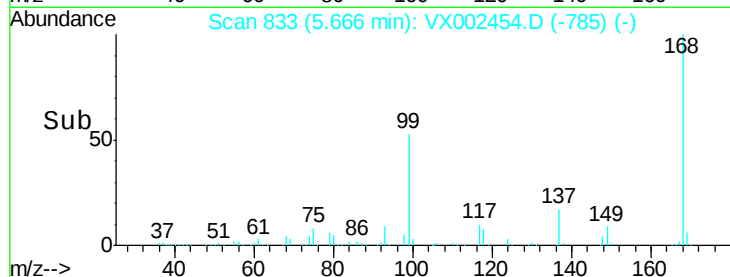
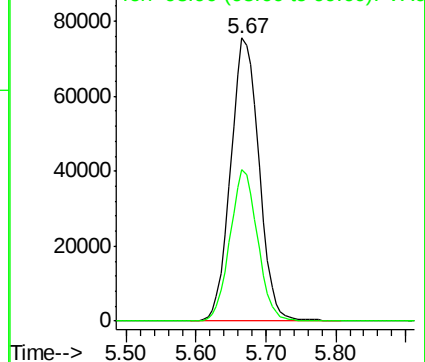
168 100

99 53.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002454.D

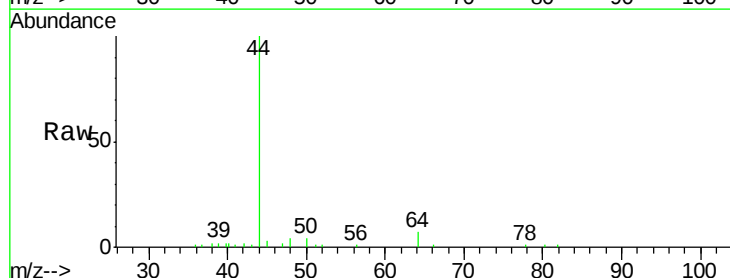
Acq: 11 Jun 2018 20:15

Tgt Ion: 50 Resp: 498

Ion Ratio Lower Upper

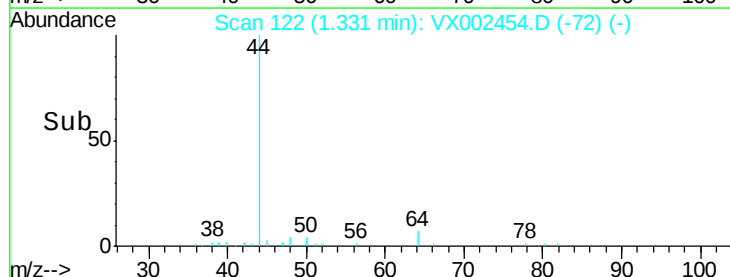
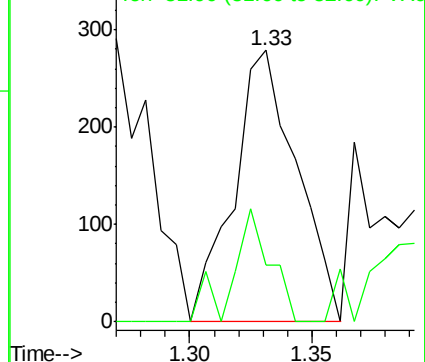
50 100

52 20.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

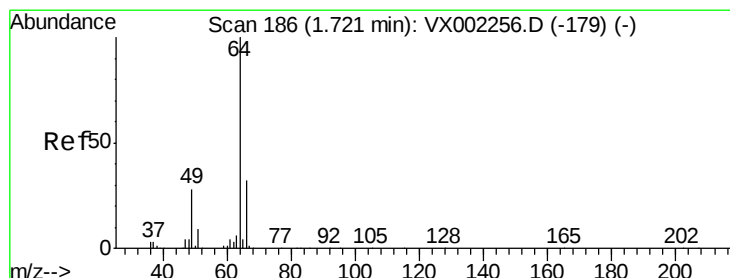
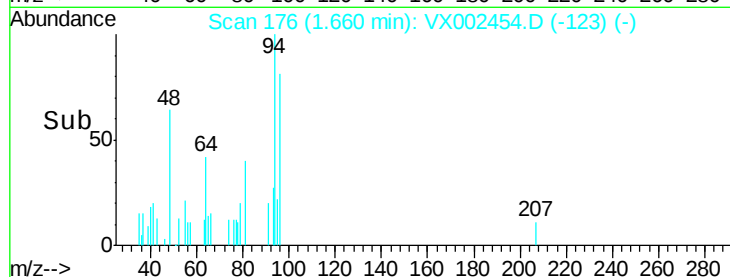
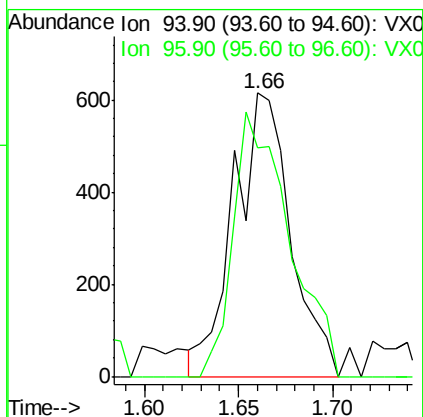
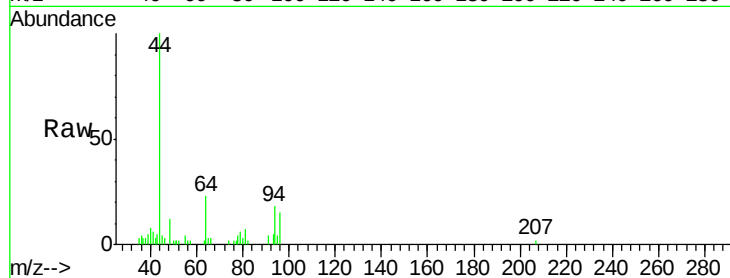
SS050MW152-180607

Tgt Ion: 94 Resp: 1288

Ion Ratio Lower Upper

94 100

96 80.8 74.9 112.3



#6

Chloroethane

Concen: 0.23 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX002454.D

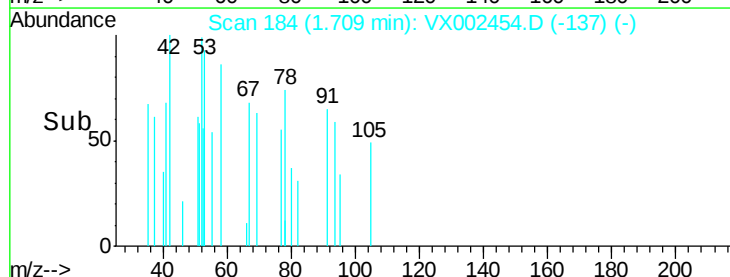
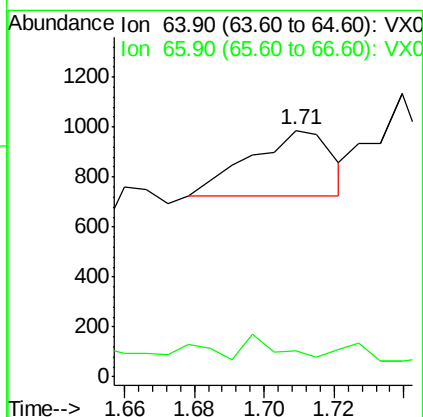
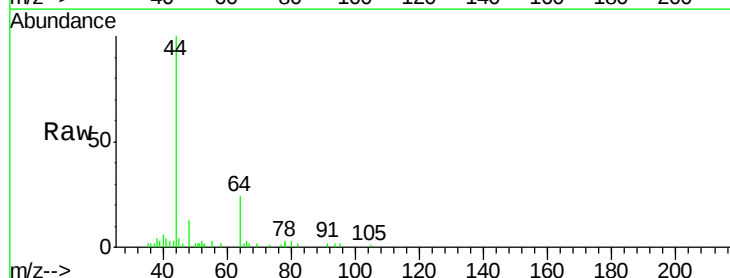
Acq: 11 Jun 2018 20:15

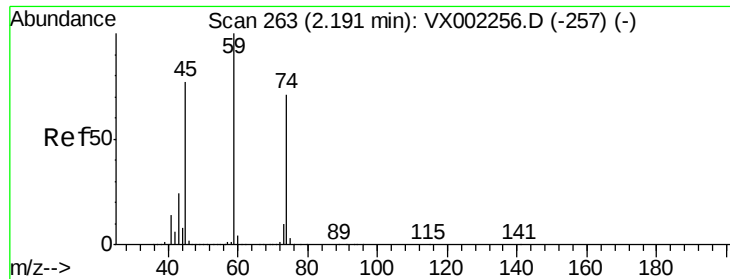
Tgt Ion: 64 Resp: 422

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 261

Delta R.T. -0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

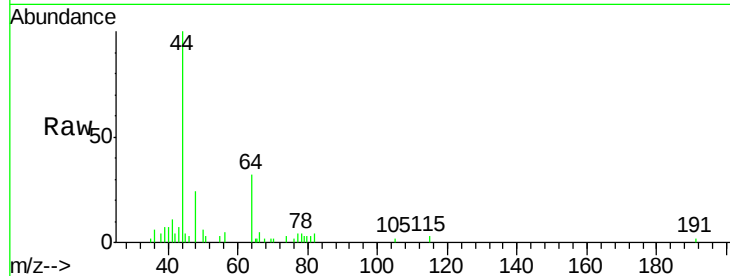
SS050MW152-180607

Tgt Ion: 74 Resp: 73

Ion Ratio Lower Upper

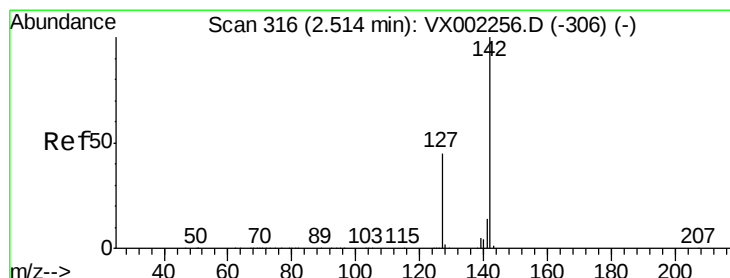
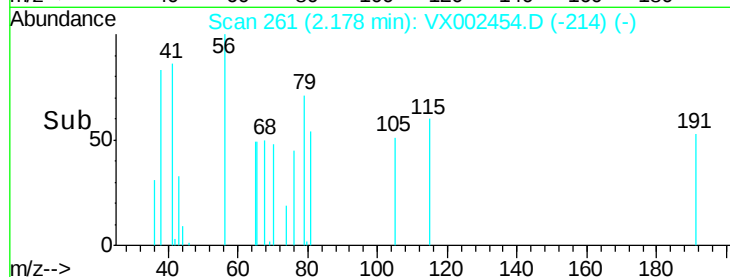
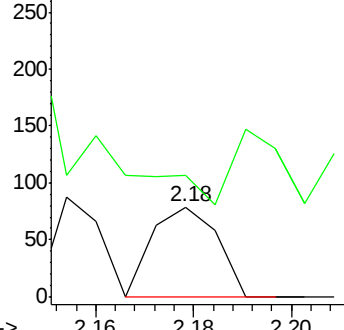
74 100

45 57.5 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.28 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

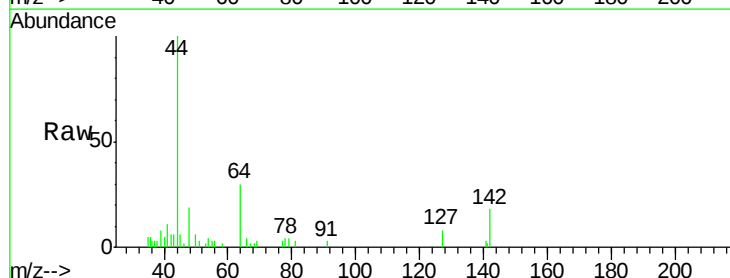
Tgt Ion: 142 Resp: 894

Ion Ratio Lower Upper

142 100

127 61.9 36.6 55.0#

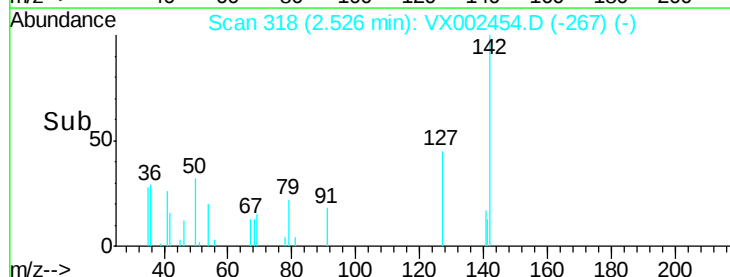
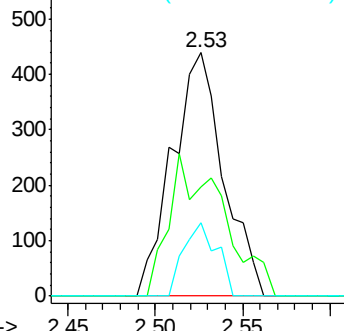
141 19.5 11.3 16.9#

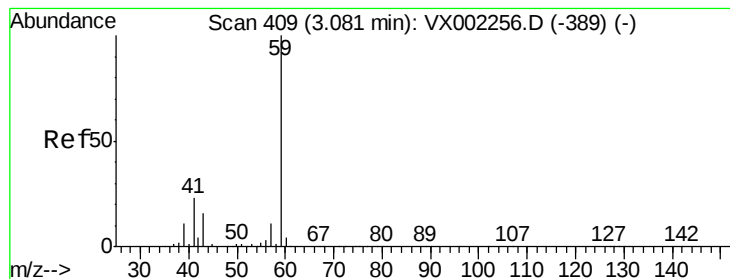


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



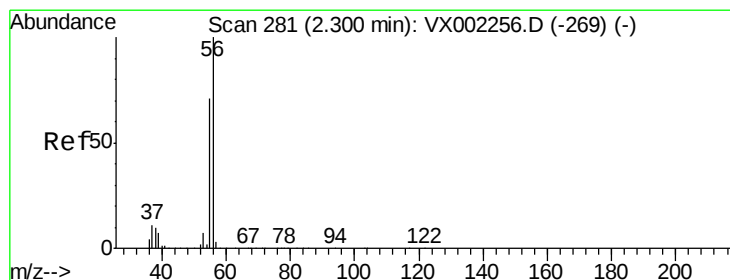
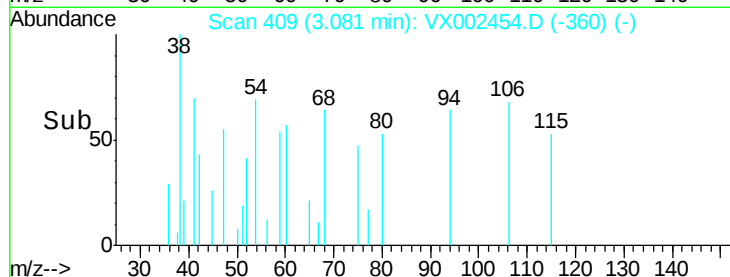
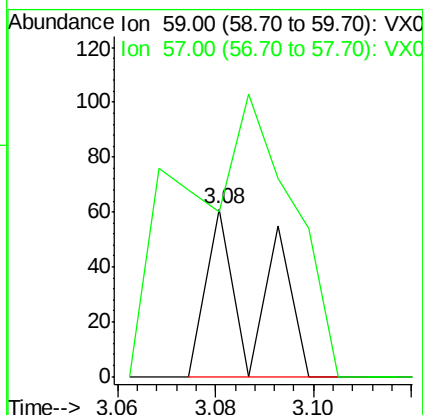
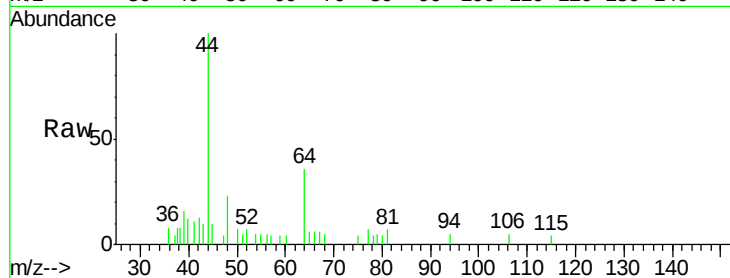


#11

Tert butyl alcohol
Concen: Below Cal
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Instrument :
MSVOA_X
ClientSampleId :
SS050MW152-180607

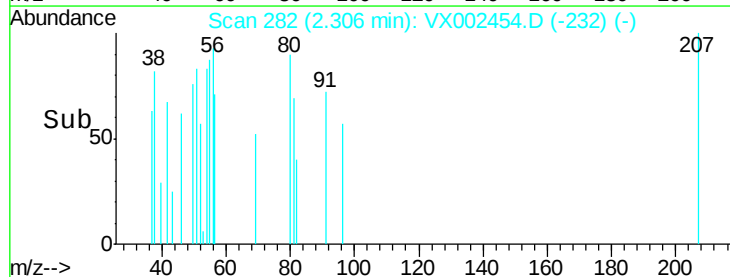
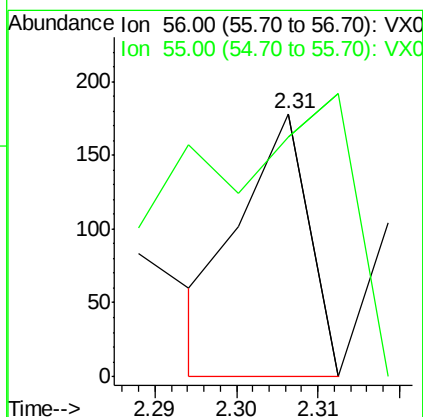
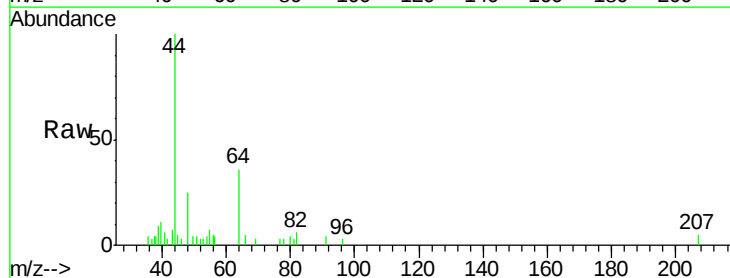
Tgt Ion: 59 Resp: 42
Ion Ratio Lower Upper
59 100
57 376.2 8.2 12.2#

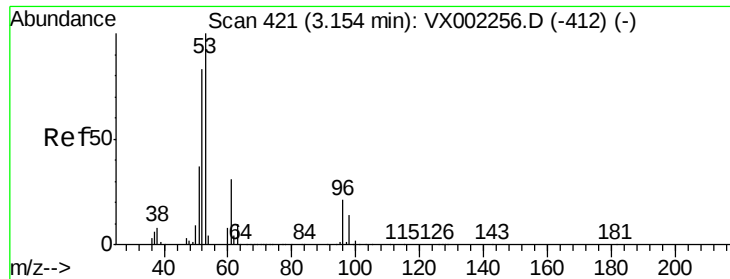


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Tgt Ion: 56 Resp: 102
Ion Ratio Lower Upper
56 100
55 263.7 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607

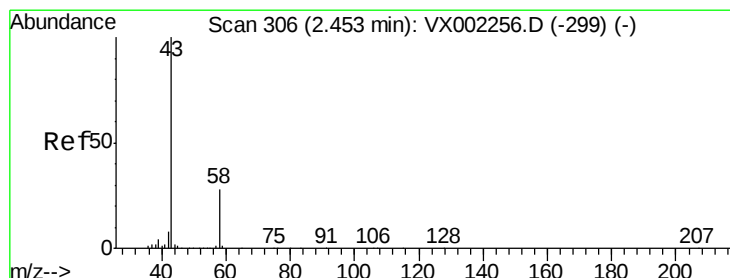
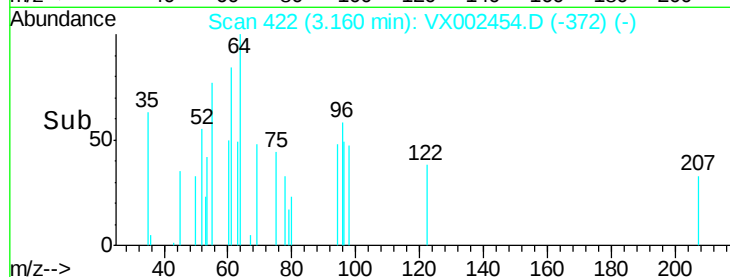
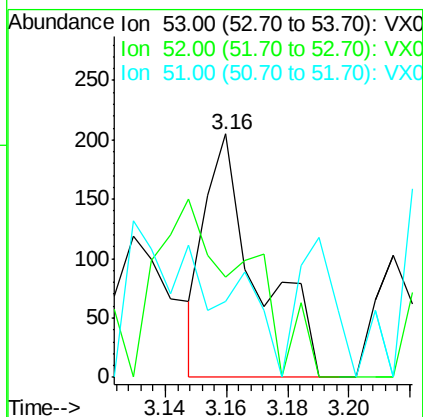
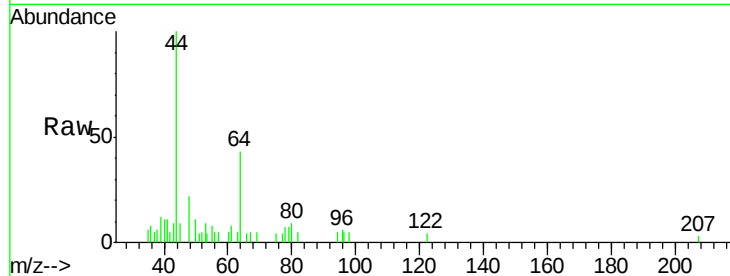
Tgt Ion: 53 Resp: 244

Ion Ratio Lower Upper

53 100

52 123.0 66.7 100.1#

51 0.0 29.9 44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002454.D

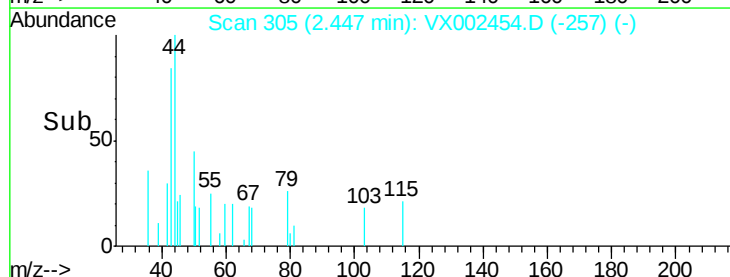
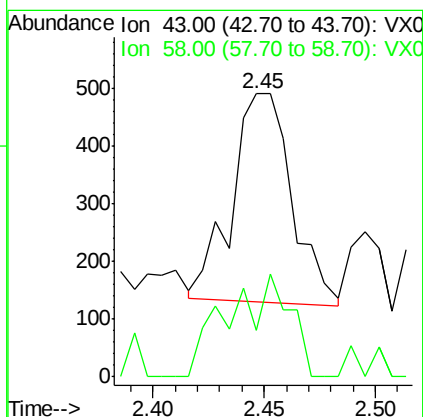
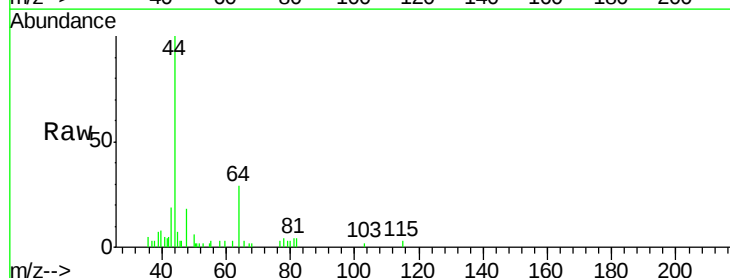
Acq: 11 Jun 2018 20:15

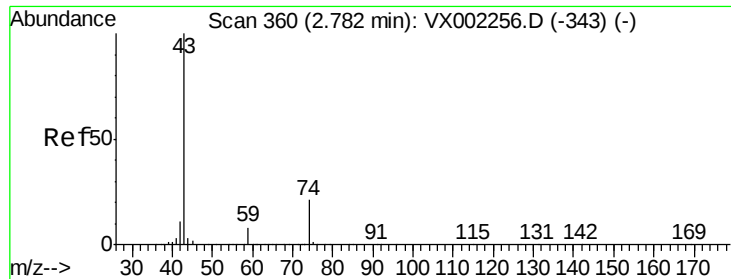
Tgt Ion: 43 Resp: 677

Ion Ratio Lower Upper

43 100

58 22.6 22.1 33.1

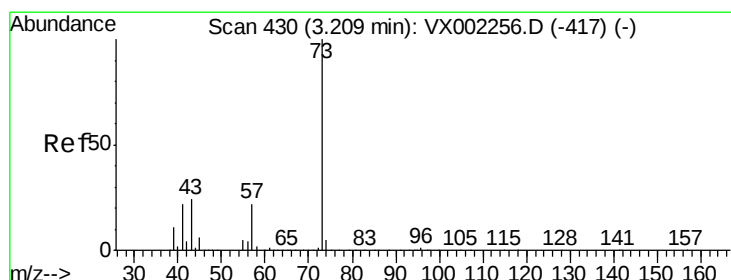
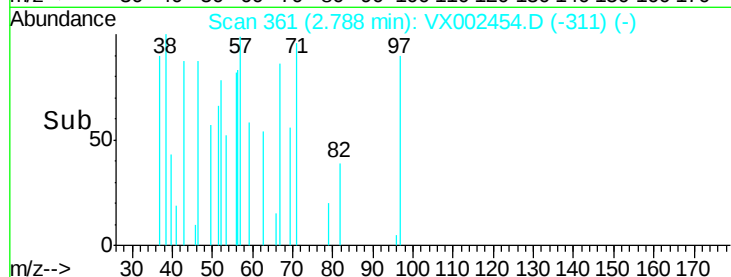
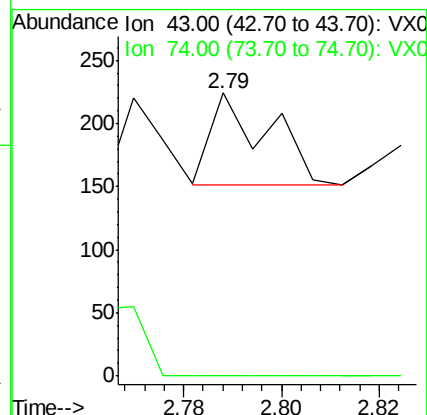
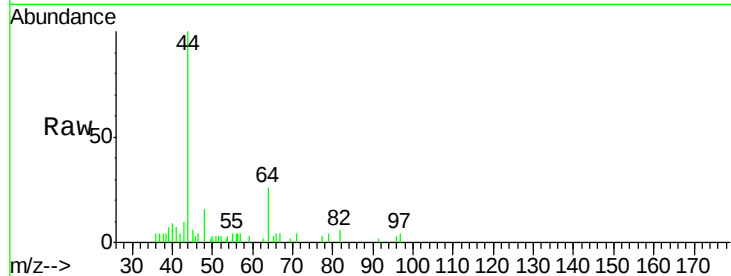




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

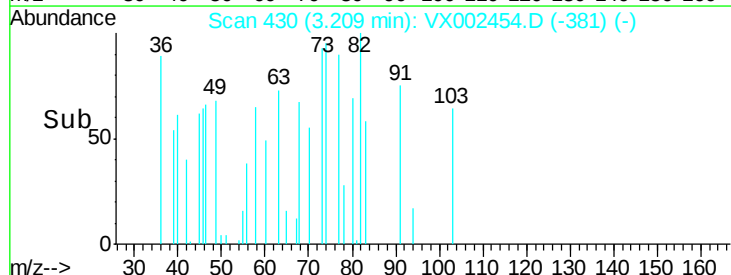
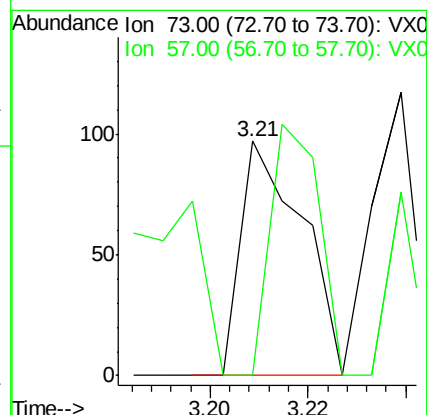
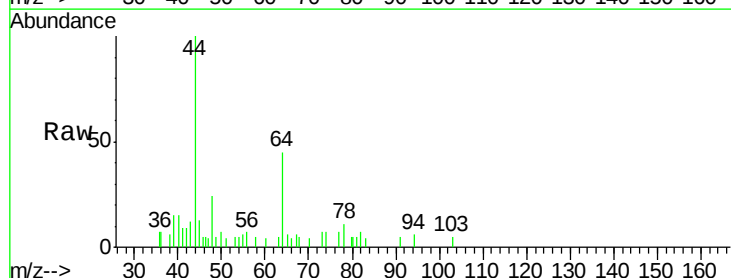
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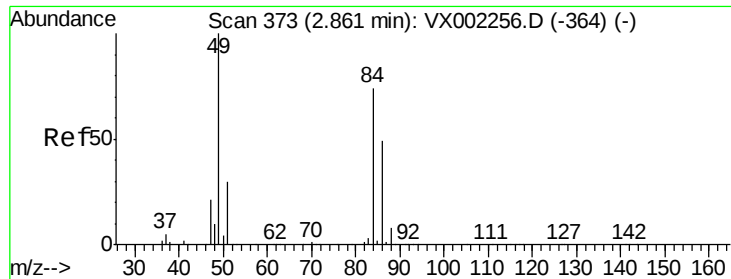
Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Tgt Ion: 73 Resp: 84
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

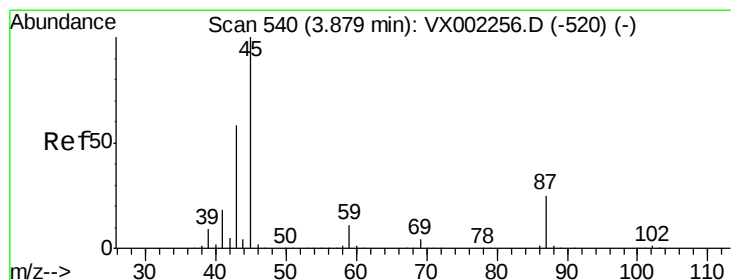
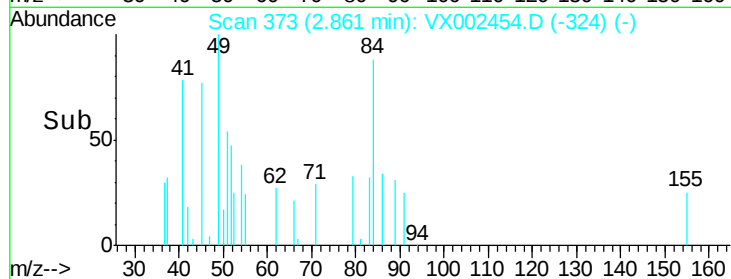
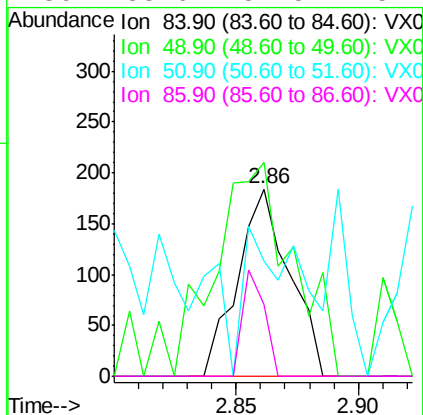
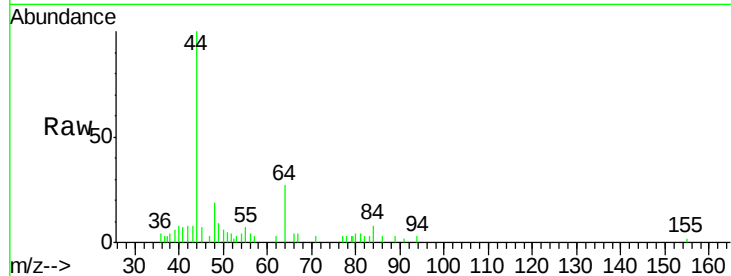




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

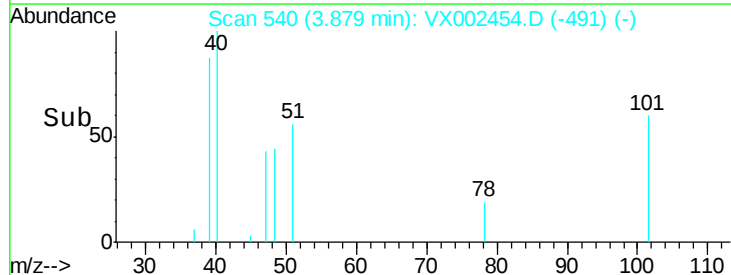
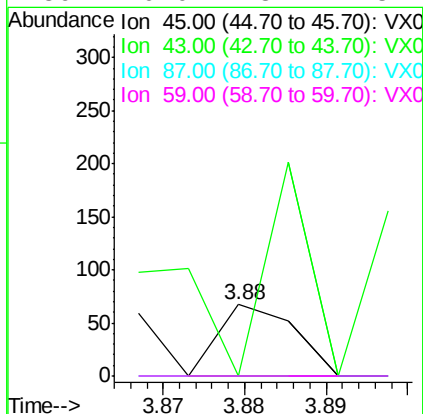
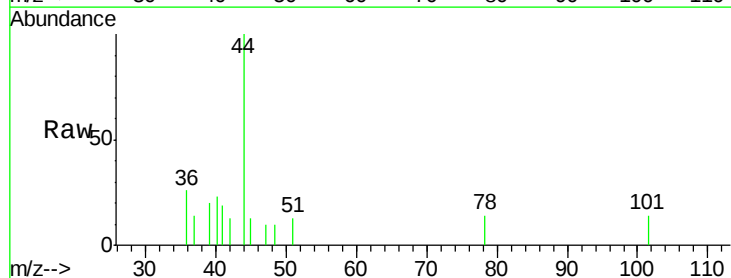
Instrument :
MSVOA_X
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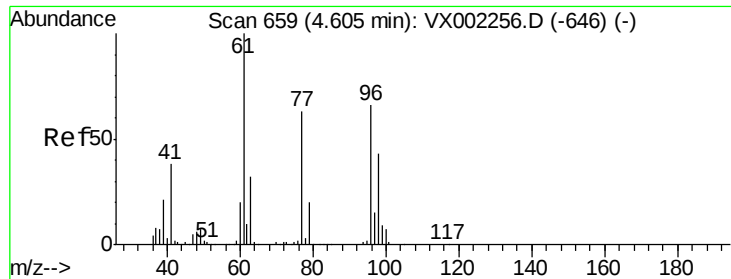
Tgt Ion: 84 Resp: 271
Ion Ratio Lower Upper
84 100
49 114.1 107.8 161.6
51 26.6 32.8 49.2#
86 38.6 52.5 78.7#



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Tgt Ion: 45 Resp: 44
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#27

cis-1,2-Dichloroethene

Concen: 1.77 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607

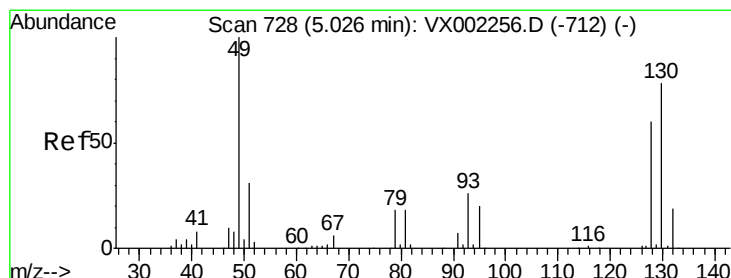
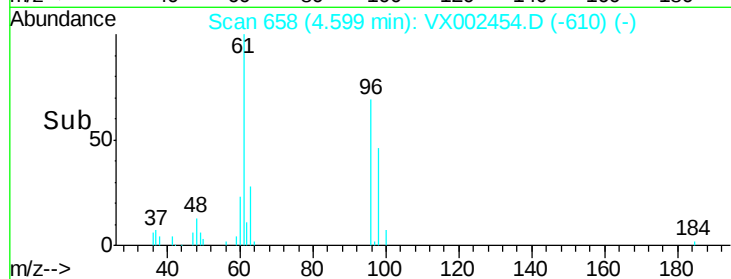
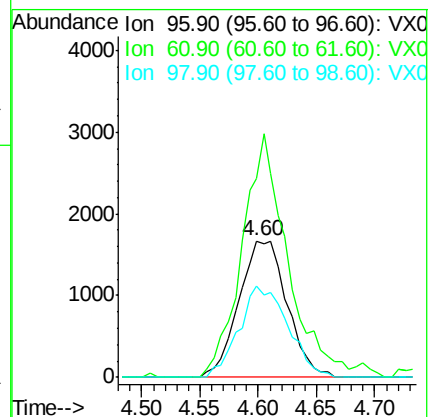
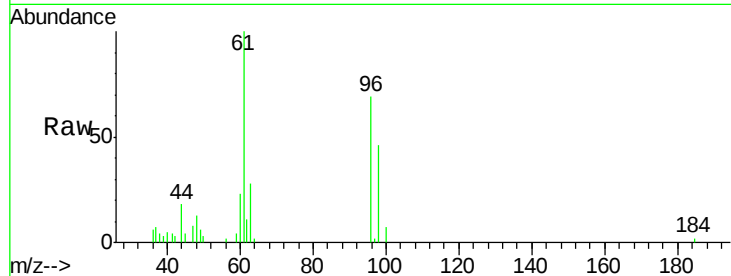
Tgt Ion: 96 Resp: 4798

Ion Ratio Lower Upper

96 100

61 168.1 0.0 330.2

98 67.7 0.0 130.2



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

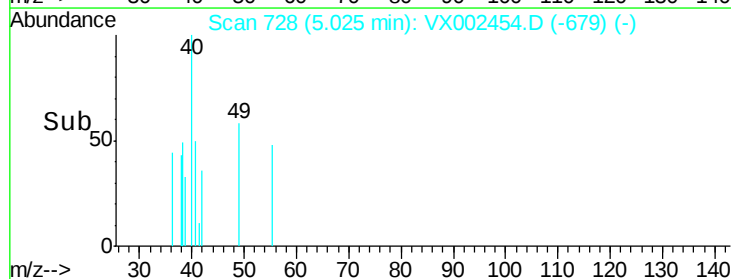
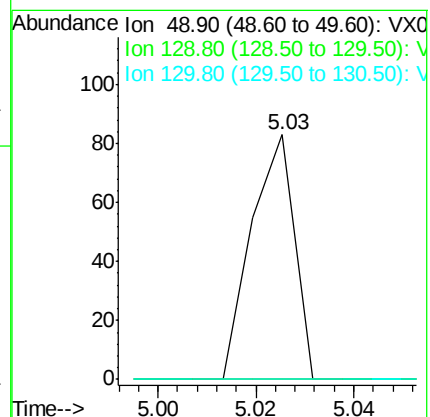
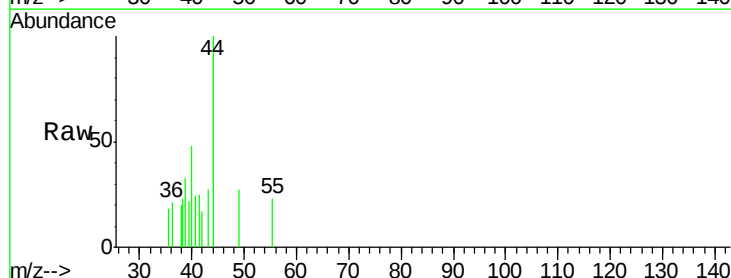
Tgt Ion: 49 Resp: 50

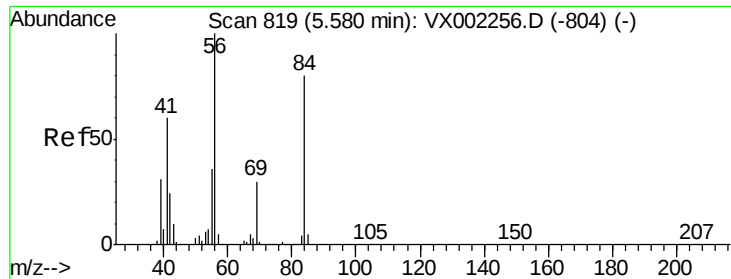
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#

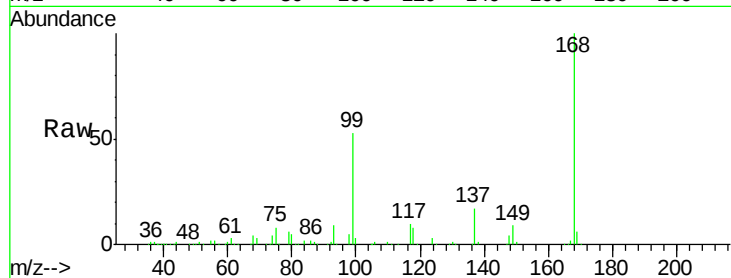




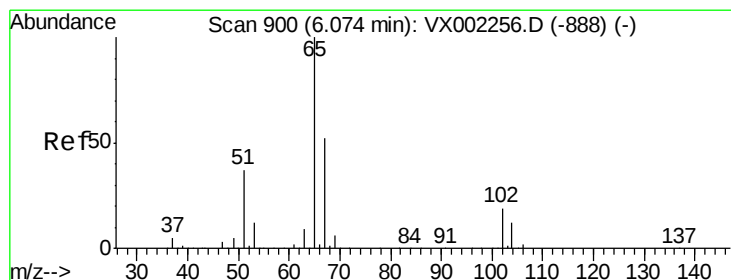
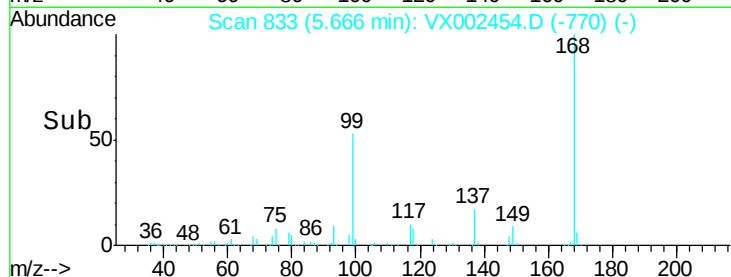
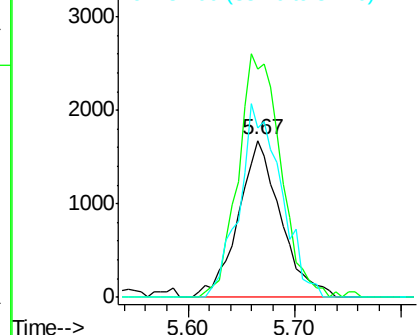
#31
Cyclohexane
Concen: 1.22 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Instrument :
MSVOA_X
ClientSampleId :
SS050MW152-180607

Tgt Ion: 56 Resp: 4685
Ion Ratio Lower Upper
56 100
69 145.6 23.7 35.5#
84 107.7 64.1 96.1#

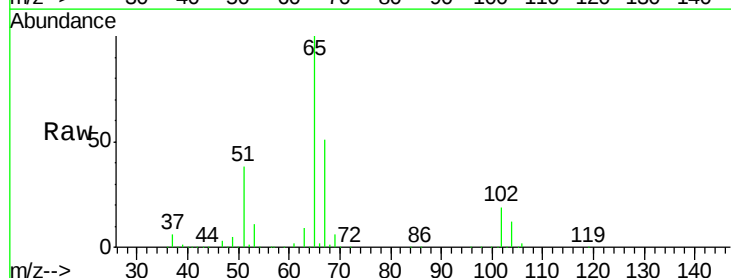


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

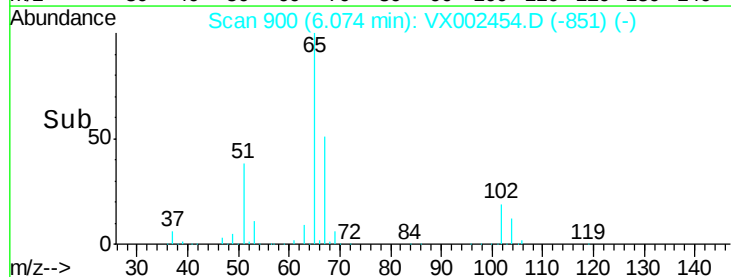
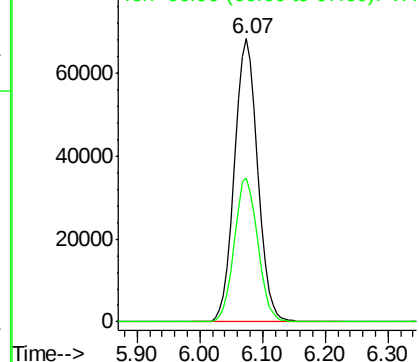


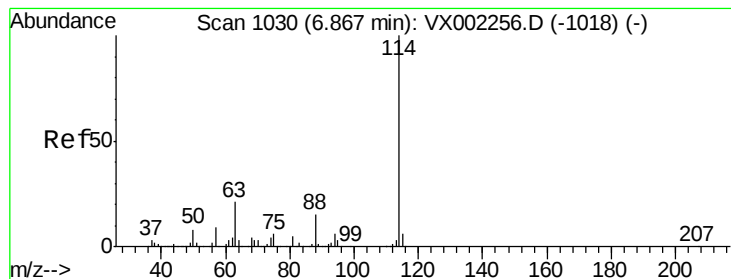
#33
1,2-Dichloroethane-d4
Concen: 58.27 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Tgt Ion: 65 Resp: 175670
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: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607

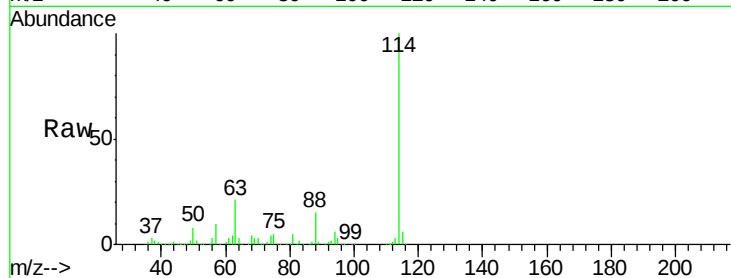
Tgt Ion:114 Resp: 313509

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.4

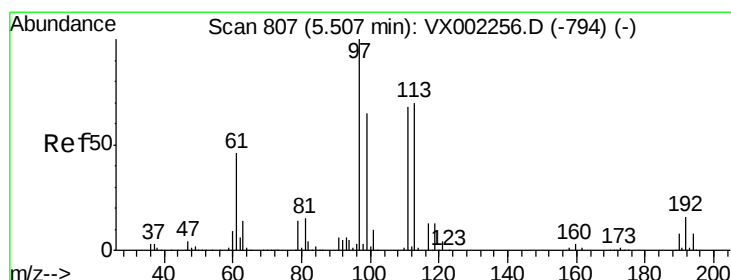
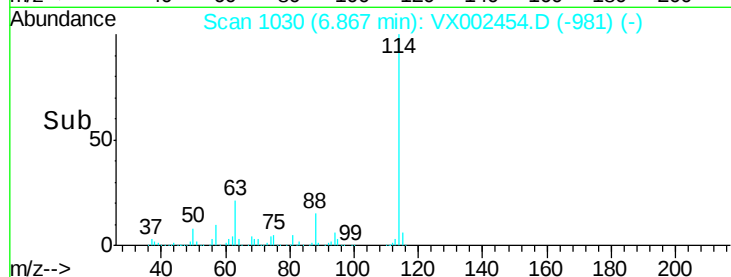
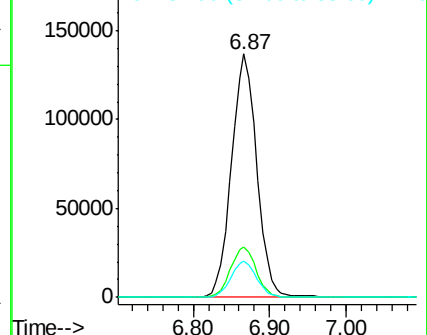
88 15.1 0.0 30.0



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: 53.37 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

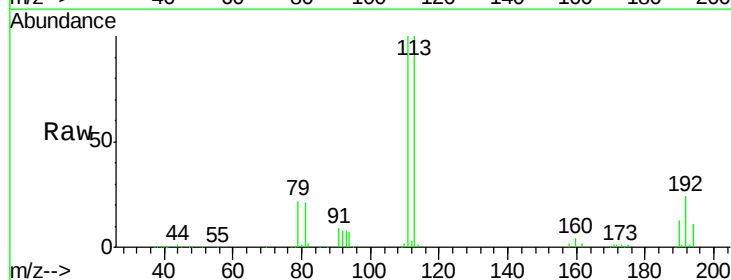
Tgt Ion:113 Resp: 131578

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

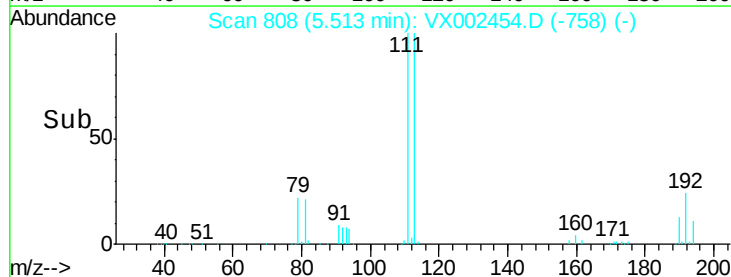
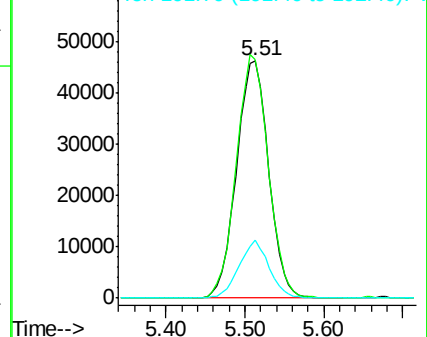
192 22.7 19.1 28.7

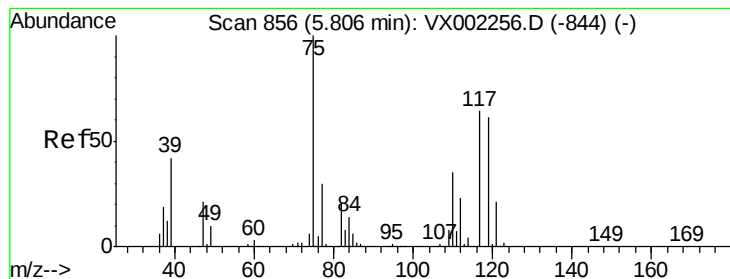


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.79 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607

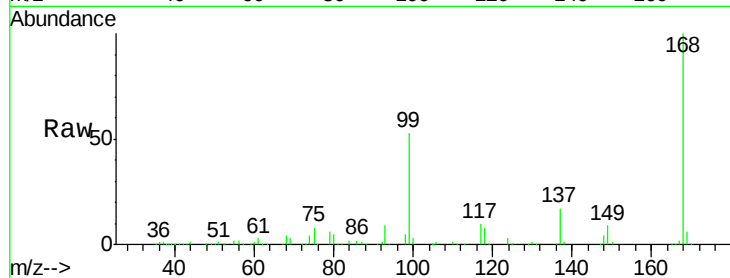
Tgt Ion: 75 Resp: 15776

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

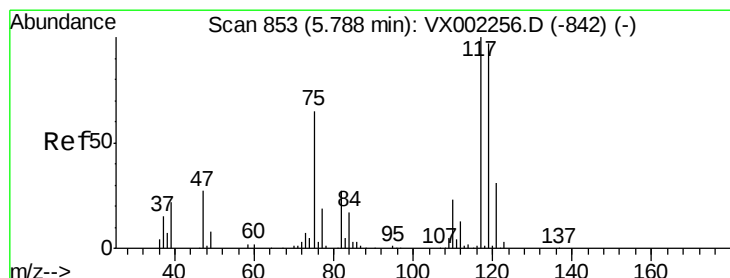
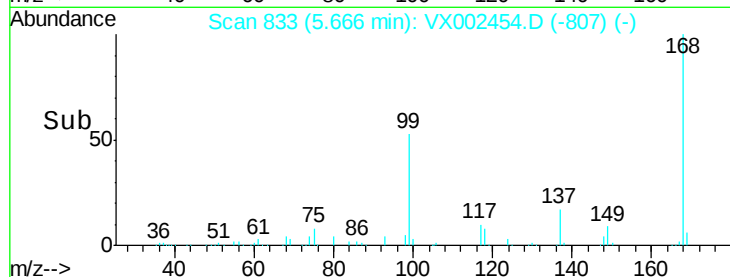
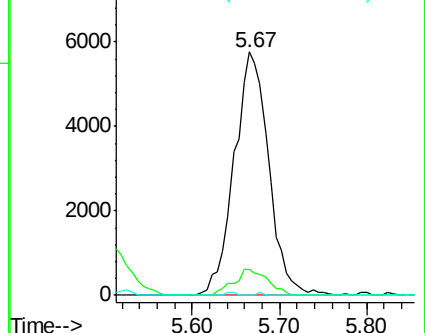
77 0.1 24.3 36.5#



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: 6.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

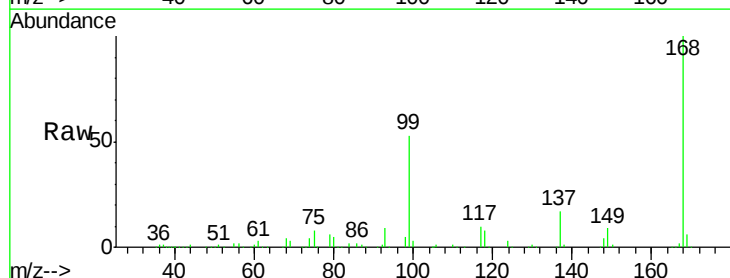
Tgt Ion: 117 Resp: 20677

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

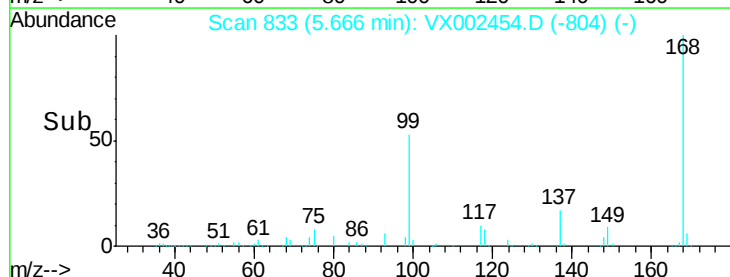
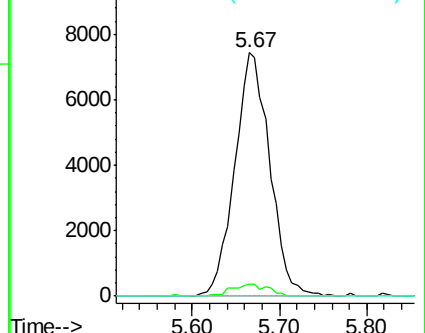
121 0.0 24.4 36.6#

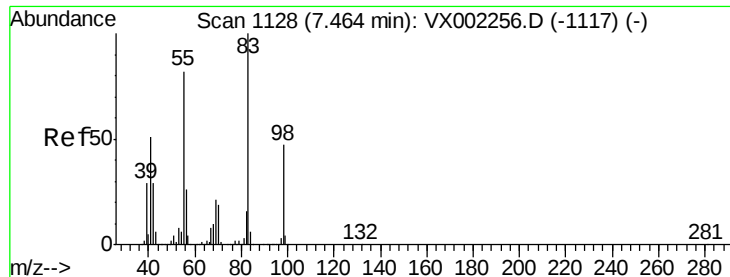


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 0.27 ug/l

RT: 7.48 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607

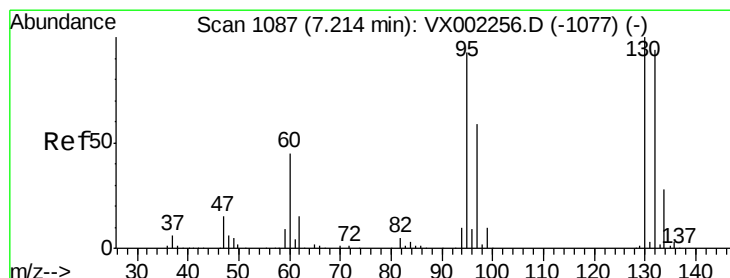
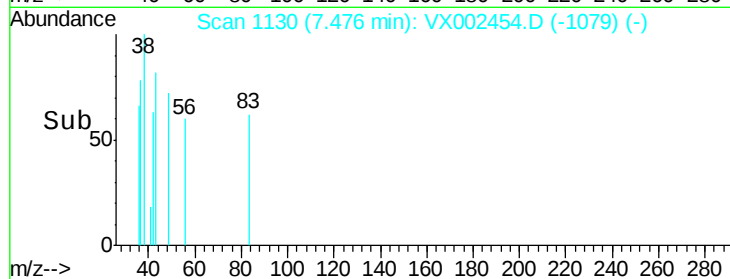
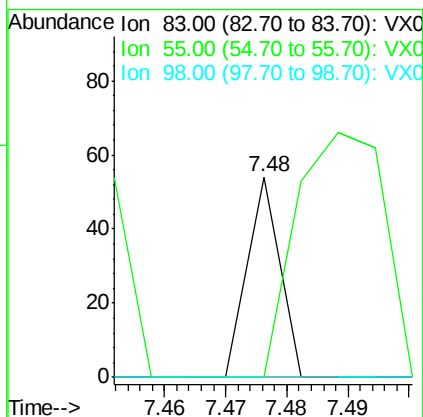
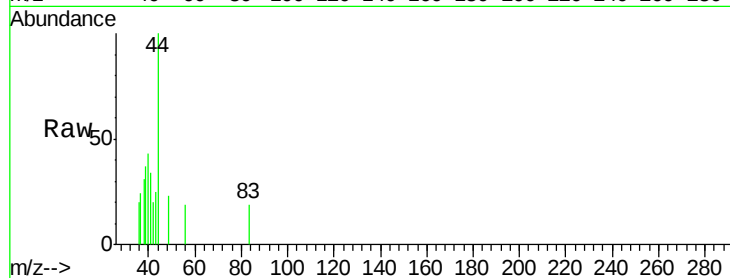
Tgt Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

55 0.0 65.4 98.0#

98 0.0 37.4 56.0#



#44

Trichloroethene

Concen: 2.88 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX002454.D

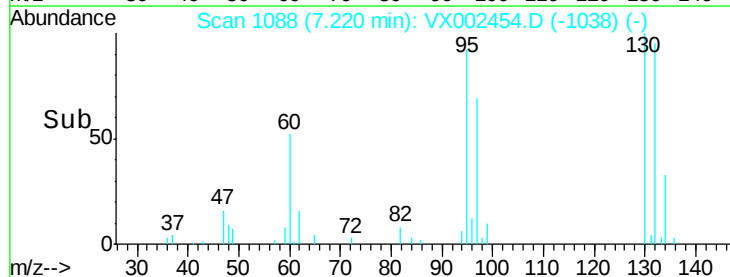
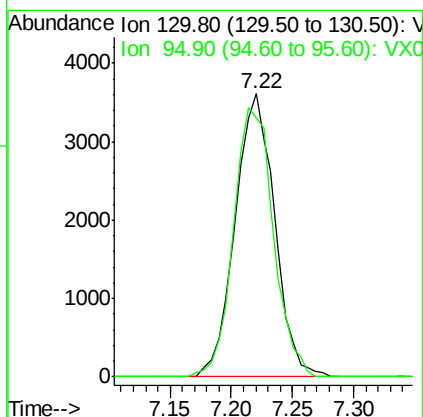
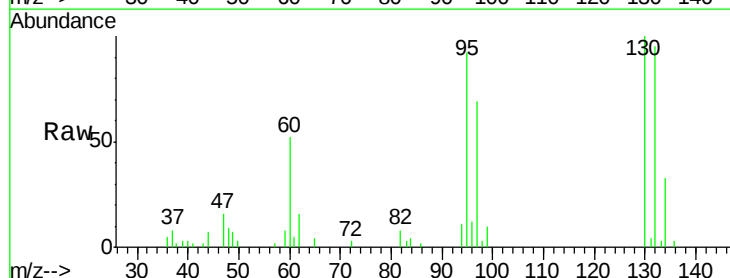
Acq: 11 Jun 2018 20:15

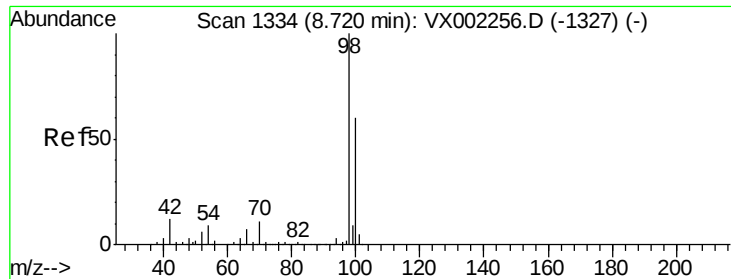
Tgt Ion: 130 Resp: 8078

Ion Ratio Lower Upper

130 100

95 91.6 0.0 185.4





#50

Toluene-d8

Concen: 53.61 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

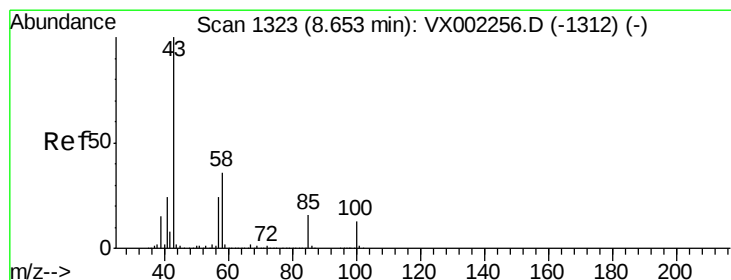
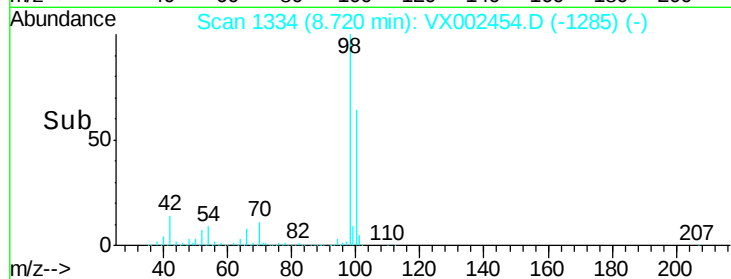
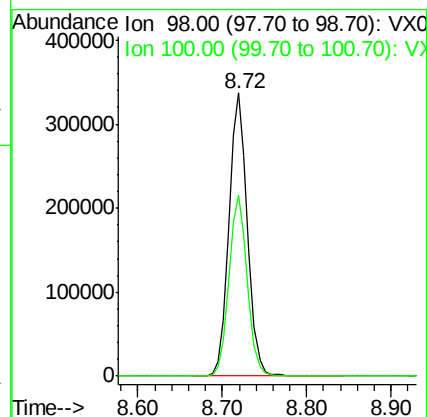
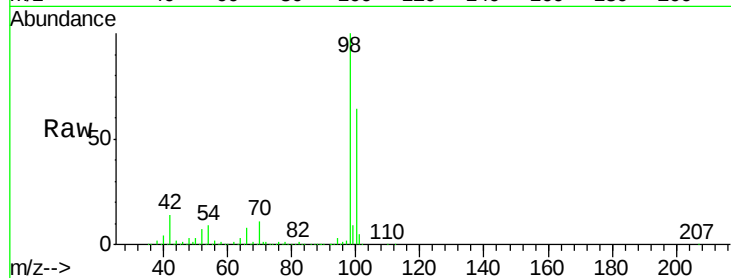
SS050MW152-180607

Tgt Ion: 98 Resp: 506641

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.70 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX002454.D

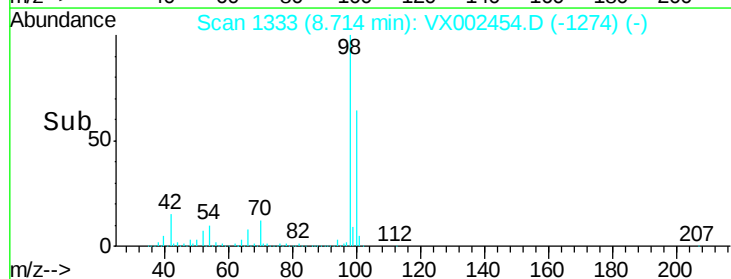
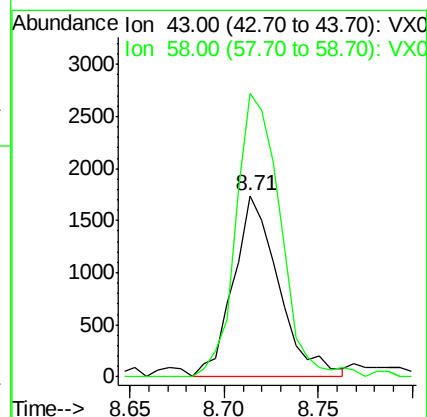
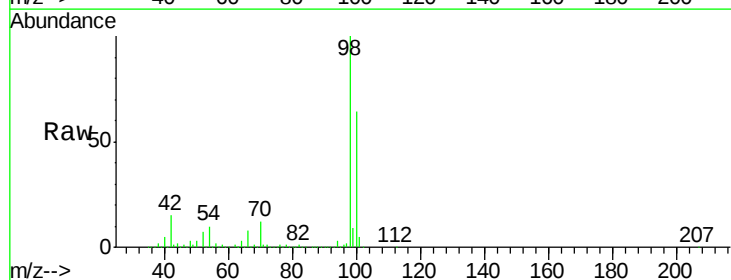
Acq: 11 Jun 2018 20:15

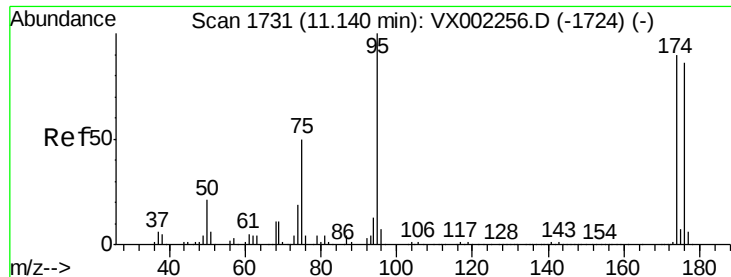
Tgt Ion: 43 Resp: 2918

Ion Ratio Lower Upper

43 100

58 151.8 28.6 42.8#

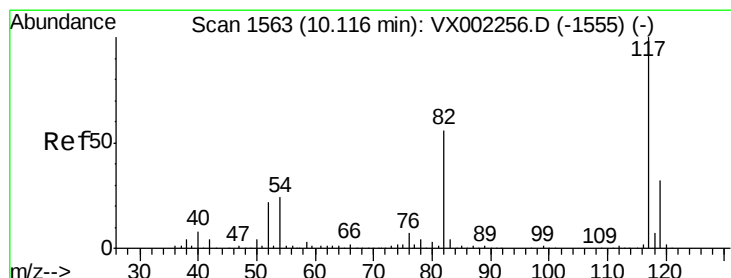
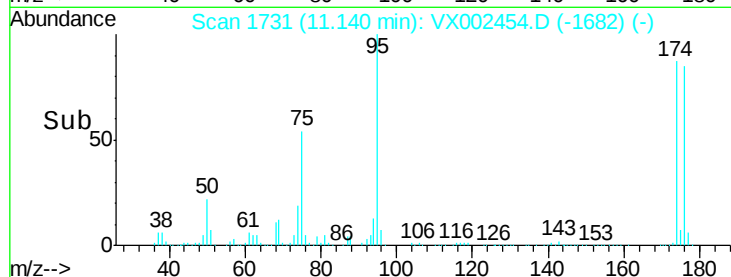
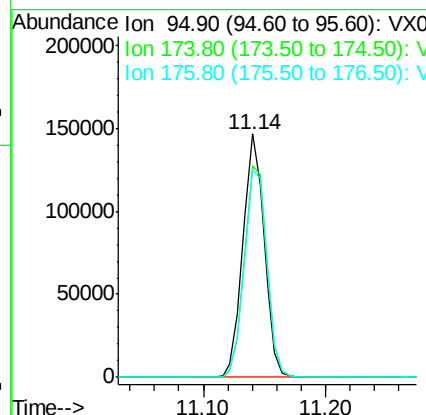
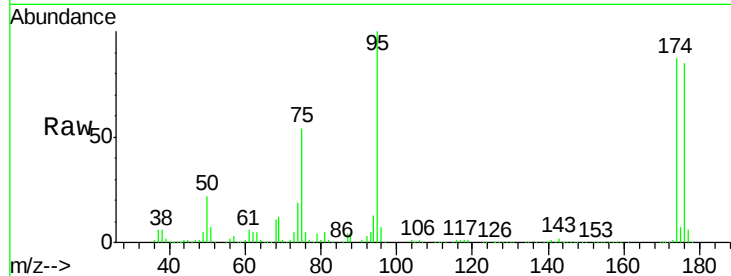




#62
4-Bromofluorobenzene
Concen: 48.24 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

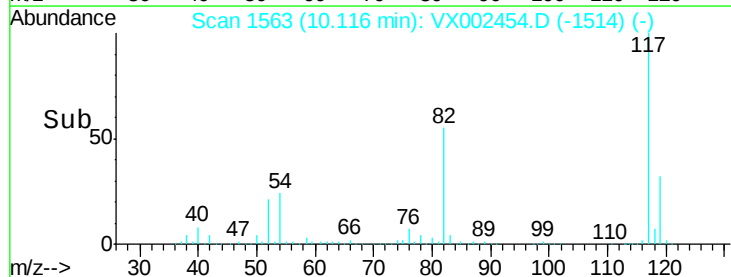
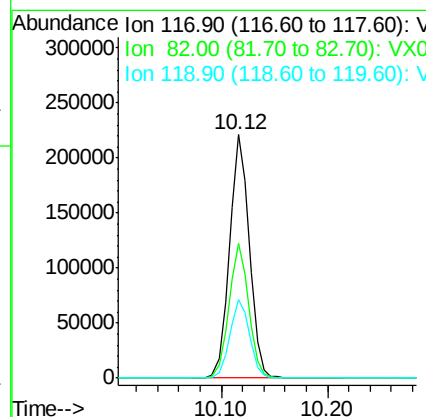
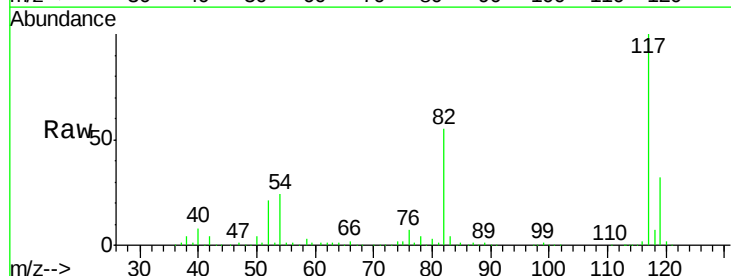
Instrument :
MSVOA_X
ClientSampleId :
SS050MW152-180607

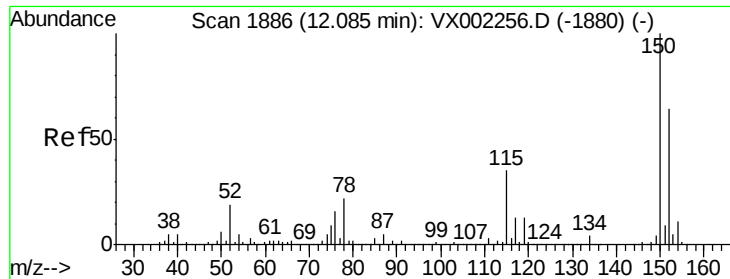
Tgt Ion: 95 Resp: 175798
Ion Ratio Lower Upper
95 100
174 92.4 0.0 187.4
176 90.5 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002454.D
Acq: 11 Jun 2018 20:15

Tgt Ion: 117 Resp: 288249
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.4
119 32.0 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002454.D

Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607

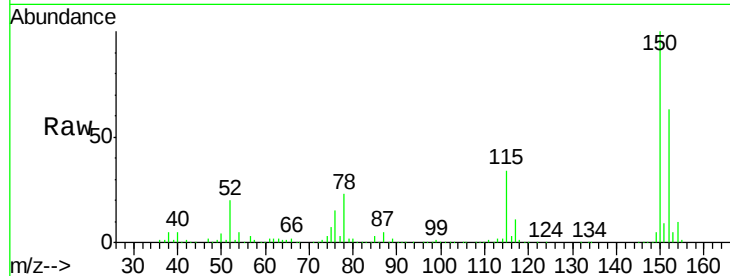
Tgt Ion:152 Resp: 157274

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

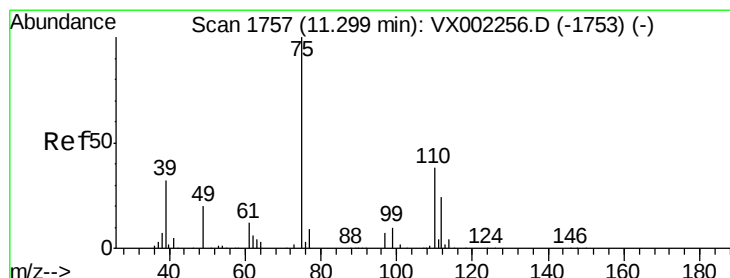
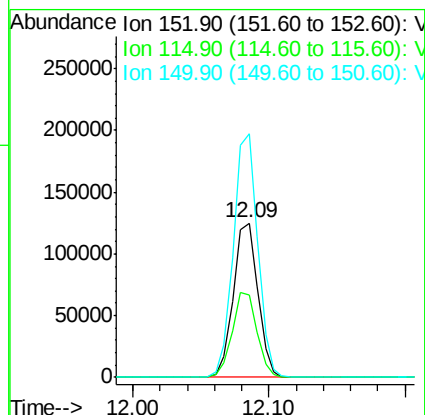
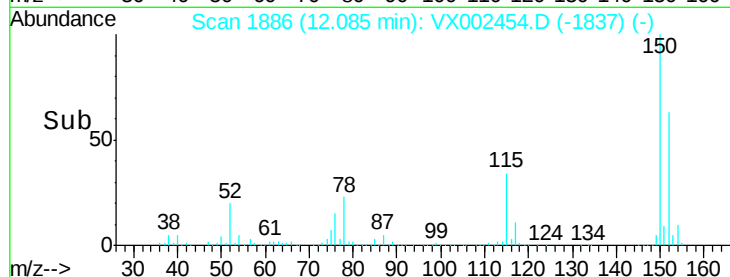
150 156.2 0.0 347.2



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



#76

1,2,3-Trichloropropane

Concen: 27.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002454.D

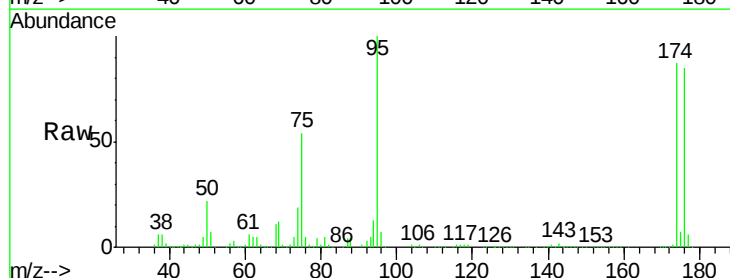
Acq: 11 Jun 2018 20:15

Tgt Ion: 75 Resp: 96016

Ion Ratio Lower Upper

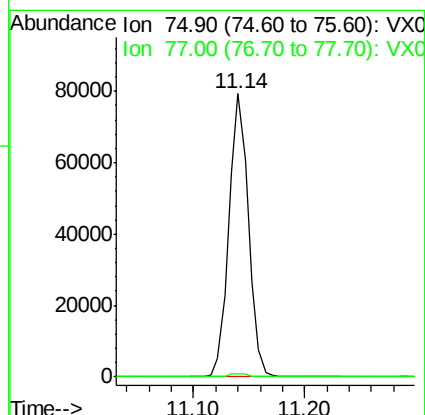
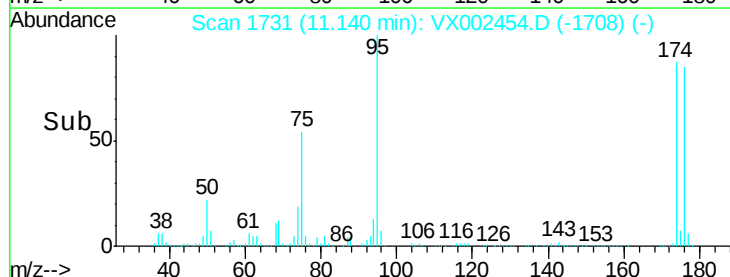
75 100

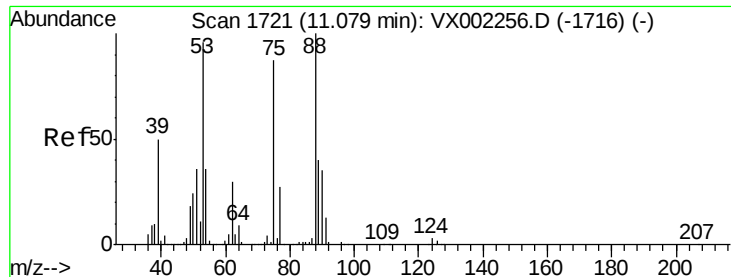
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 97.53 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002454.D

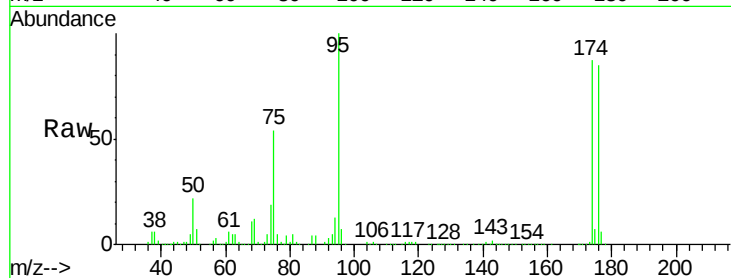
Acq: 11 Jun 2018 20:15

Instrument :

MSVOA_X

ClientSampleId :

SS050MW152-180607



Tgt Ion:	75	Resp:	96016
Ion	Ratio	Lower	Upper
75	100		
53	0.1	86.8	130.2#
89	0.0	38.2	57.2#

