

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX040818\
 Data File : VX000729.D
 Acq On : 08 Apr 2018 14:22
 Operator : JC/MD
 Sample : J2190-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-19-040218

Quant Time: Apr 09 06:40:51 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X040718W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 07 17:01:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	320050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	444879	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	411948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	242944	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	163960	44.80	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.60%		
35) Dibromofluoromethane	5.51	113	136672	47.53	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.06%		
50) Toluene-d8	8.73	98	512472	47.03	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.06%		
62) 4-Bromofluorobenzene	11.15	95	209505	46.28	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.56%		

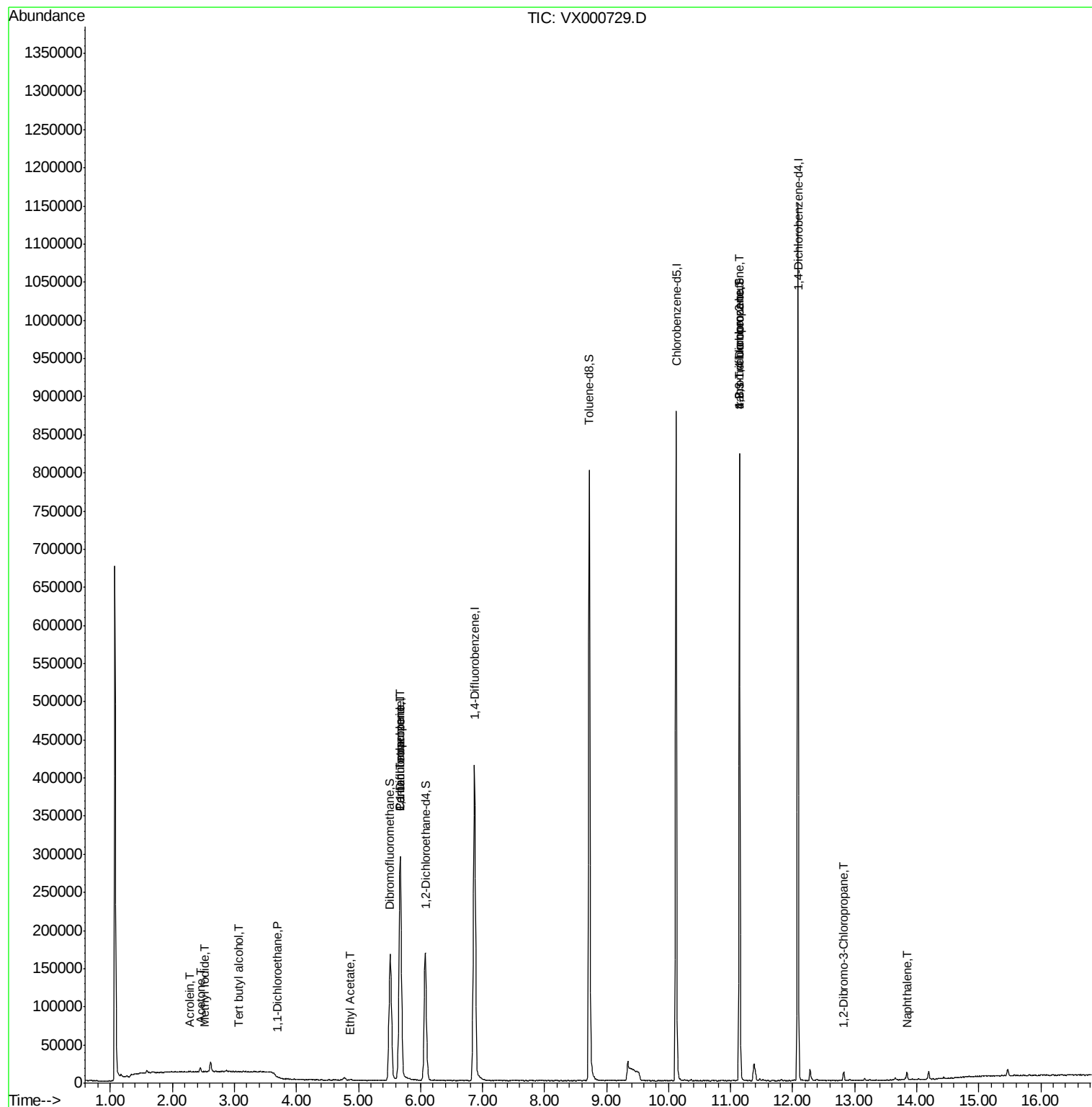
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	429	Below Cal	#	88
5) Bromomethane	1.65	94	210	Below Cal	#	26
8) Diethyl Ether	2.20	74	101	Below Cal		74
10) Methyl Iodide	2.52	142	437	5.50	ug/l #	93
11) Tert butyl alcohol	3.07	59	534	0.86	ug/l #	72
13) Acrolein	2.28	56	62	0.23	ug/l #	1
16) Acetone	2.45	43	7019	6.11	ug/l	95
17) Carbon Disulfide	2.57	76	549	Below Cal	#	75
20) Methylene Chloride	2.87	84	1057	Below Cal	#	85
24) 1,1-Dichloroethane	3.70	63	947	0.20	ug/l #	44
31) Cyclohexane	5.58	56	1046	Below Cal	#	79
36) 1,1-Dichloropropene	5.68	75	19791	5.19	ug/l #	50
37) Ethyl Acetate	4.87	43	1570	0.38	ug/l	96
38) Carbon Tetrachloride	5.68	117	27419	6.14	ug/l #	16
39) Methylcyclohexane	7.48	83	169	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.15	75	102773	24.86	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	102773	64.73	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.82	75	244	0.22	ug/l #	1
95) Naphthalene	13.84	128	6657	0.40	ug/l	100

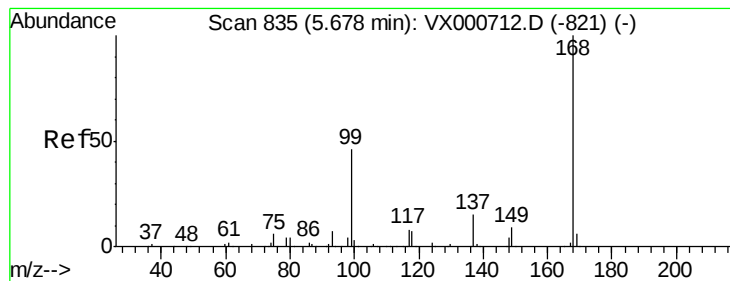
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

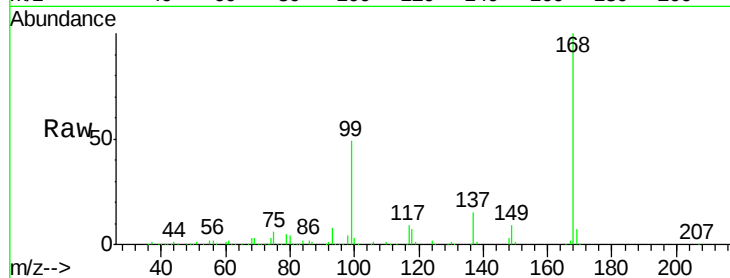
MW-19-040218

Tgt Ion:168 Resp: 320050

Ion Ratio Lower Upper

168 100

99 49.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

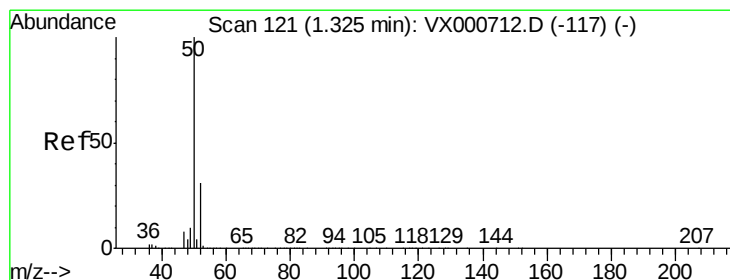
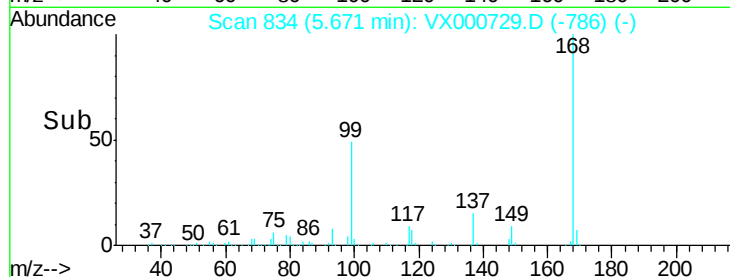
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX000729.D

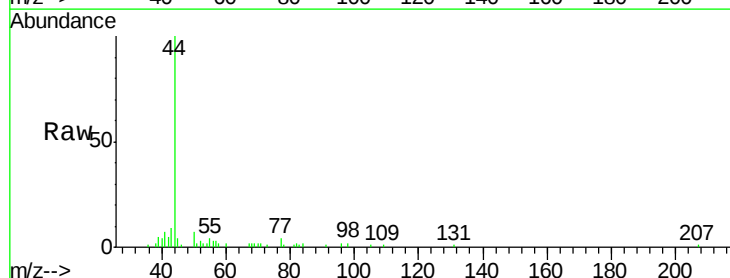
Acq: 08 Apr 2018 14:22

Tgt Ion: 50 Resp: 429

Ion Ratio Lower Upper

50 100

52 37.9 24.9 37.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

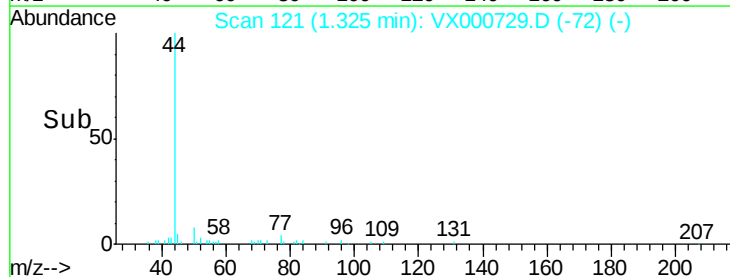
300

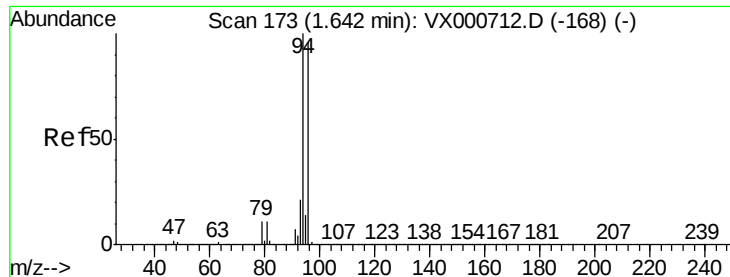
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampled :

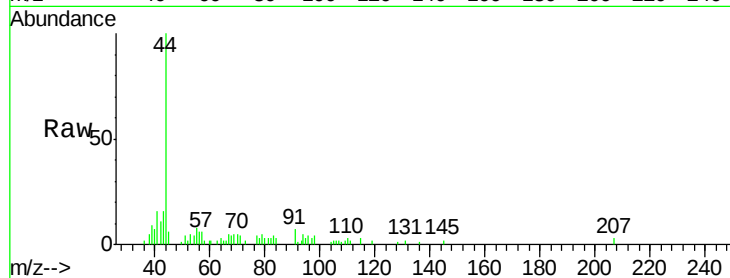
MW-19-040218

Tgt Ion: 94 Resp: 210

Ion Ratio Lower Upper

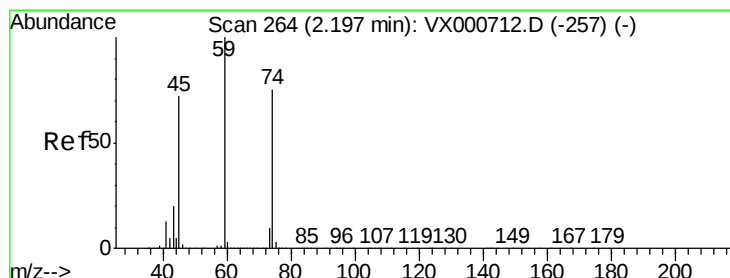
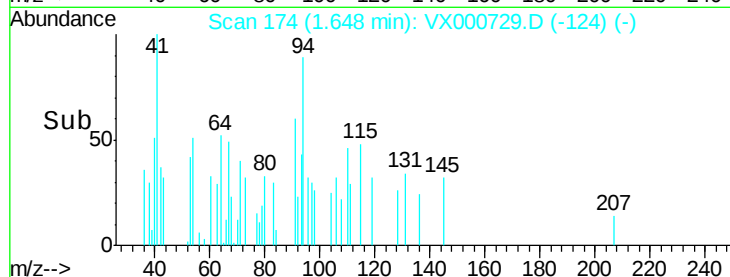
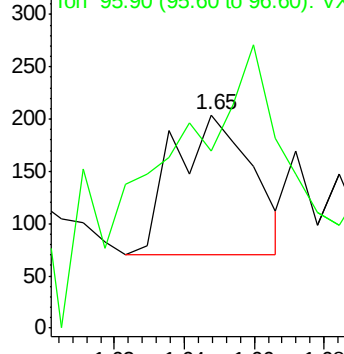
94 100

96 23.1 76.5 114.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX000729.D

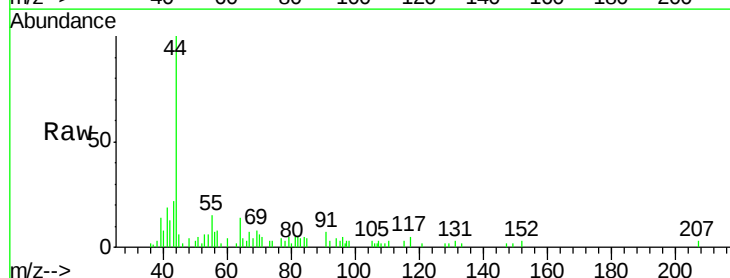
Acq: 08 Apr 2018 14:22

Tgt Ion: 74 Resp: 101

Ion Ratio Lower Upper

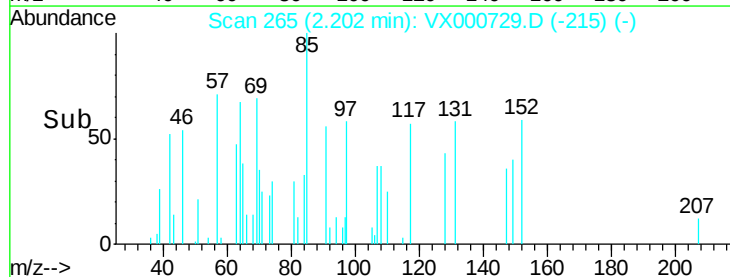
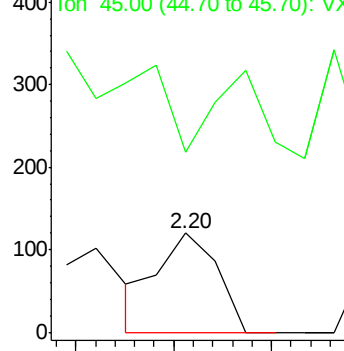
74 100

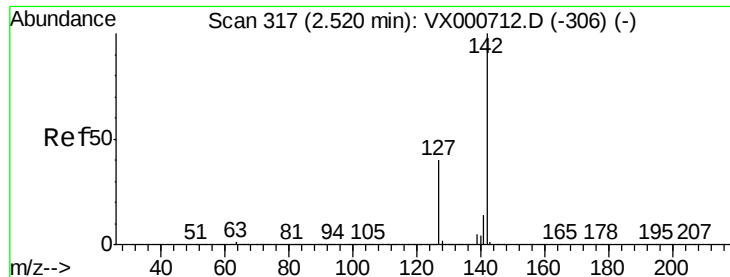
45 71.3 48.4 145.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

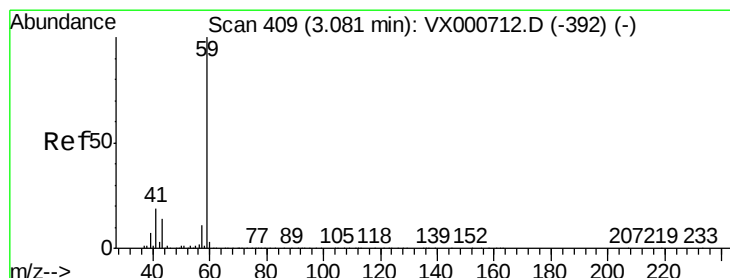
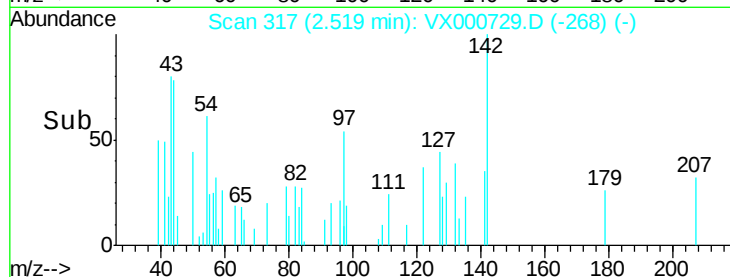
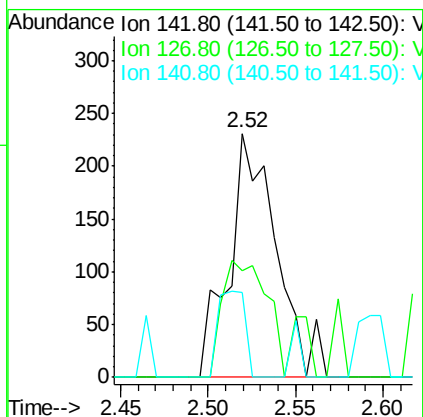
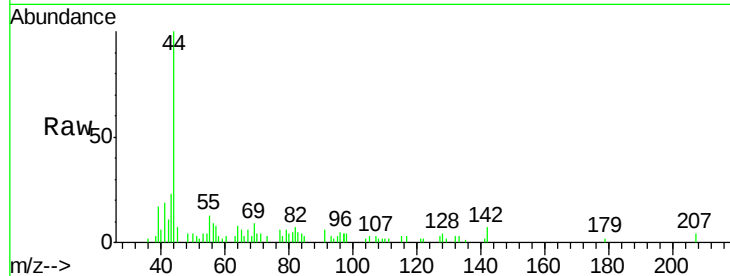




#10
Methyl Iodide
Concen: 5.50 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.00 min
Lab File: VX000729.D
Acq: 08 Apr 2018 14:22

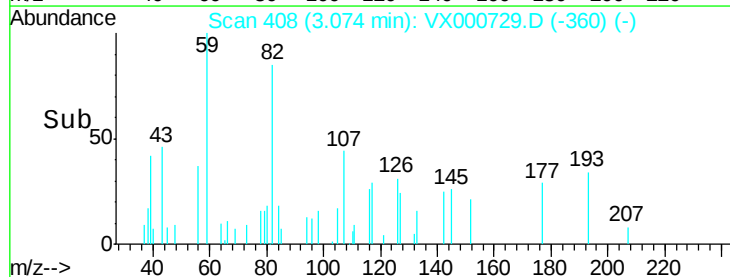
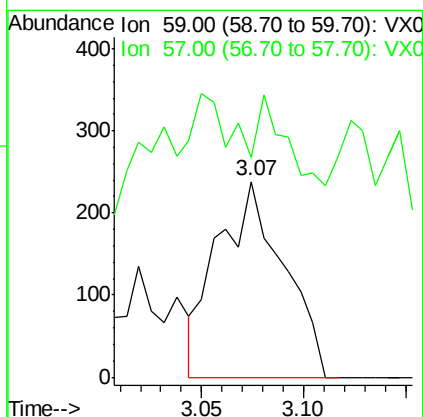
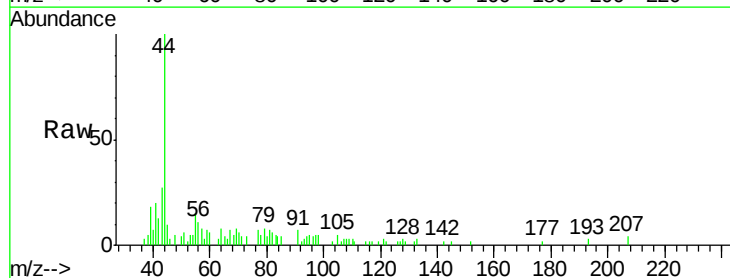
Instrument :
MSVOA_X
ClientSampleId :
MW-19-040218

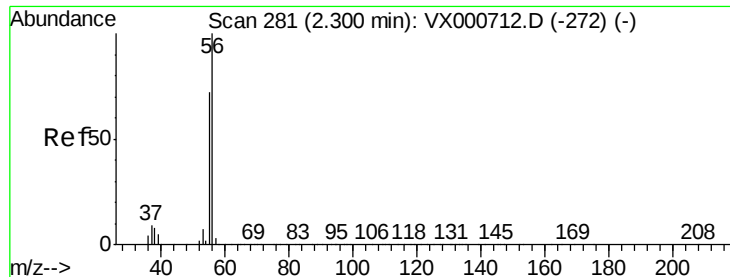
Tgt Ion:142 Resp: 437
Ion Ratio Lower Upper
142 100
127 45.1 33.9 50.9
141 20.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.86 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX000729.D
Acq: 08 Apr 2018 14:22

Tgt Ion: 59 Resp: 534
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.23 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.02 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

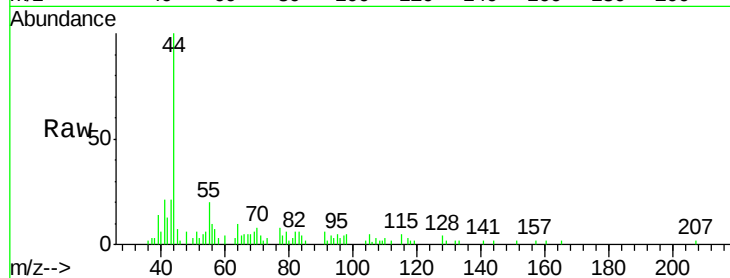
MW-19-040218

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

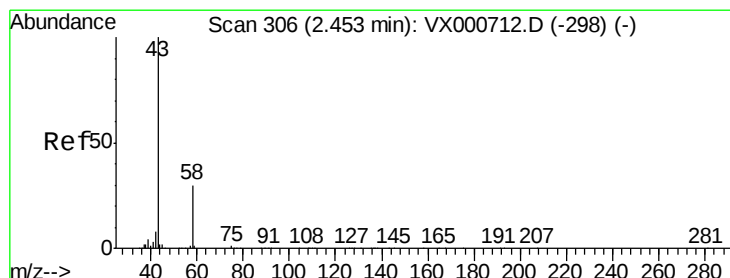
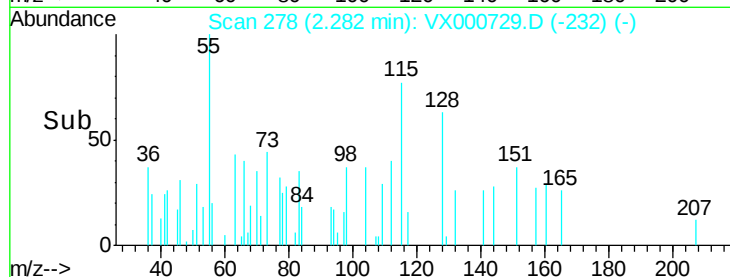
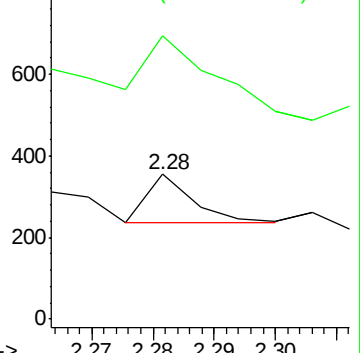
56 100

55 743.5 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 6.11 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000729.D

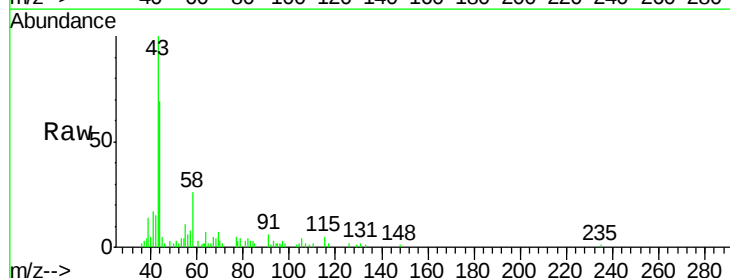
Acq: 08 Apr 2018 14:22

Tgt Ion: 43 Resp: 7019

Ion Ratio Lower Upper

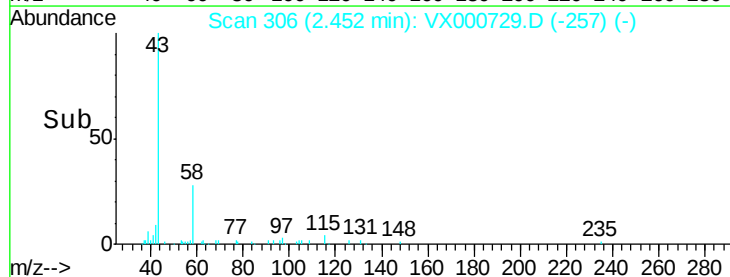
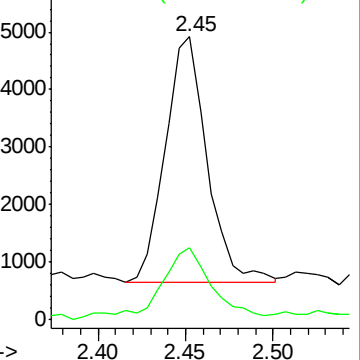
43 100

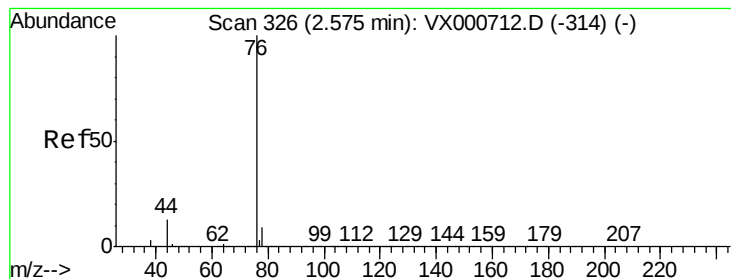
58 27.4 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

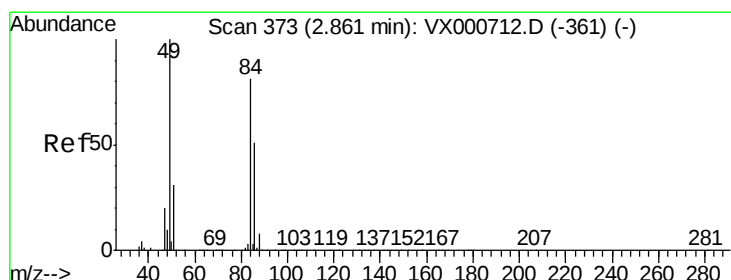
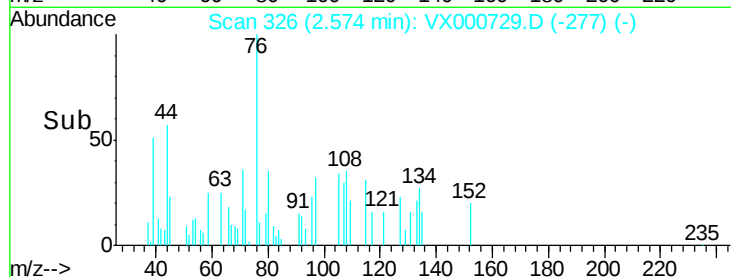
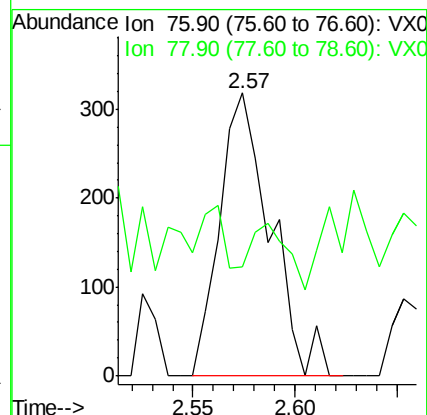
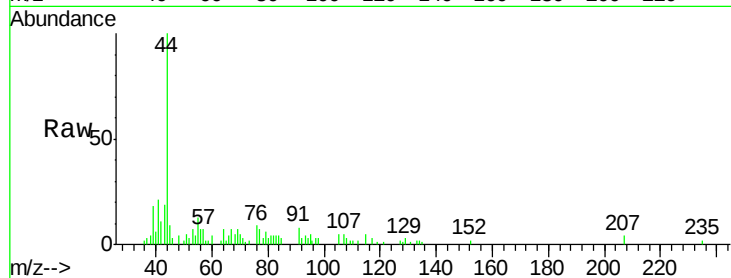
MW-19-040218

Tgt Ion: 76 Resp: 549

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Tgt Ion: 84 Resp: 1057

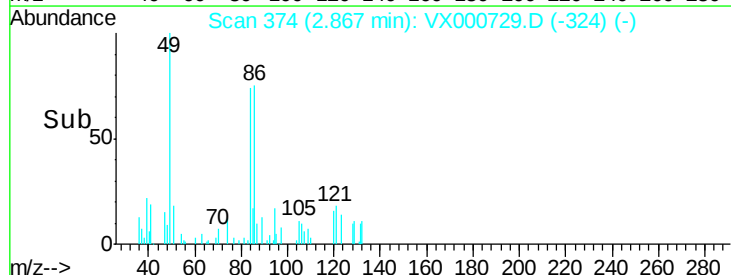
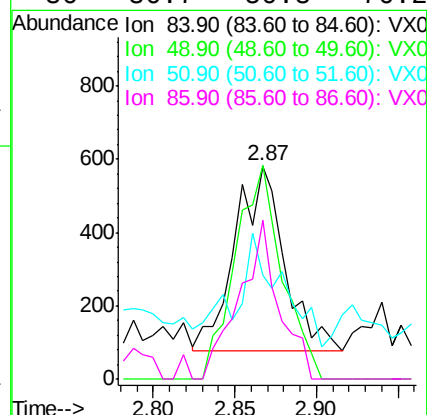
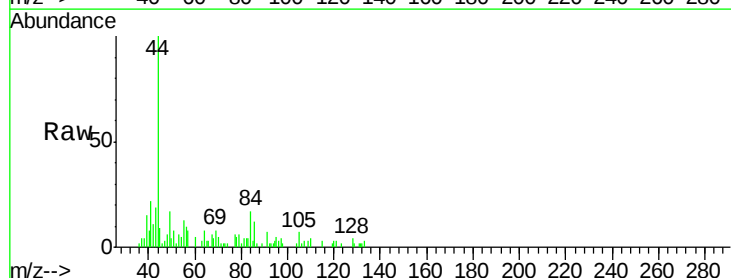
Ion Ratio Lower Upper

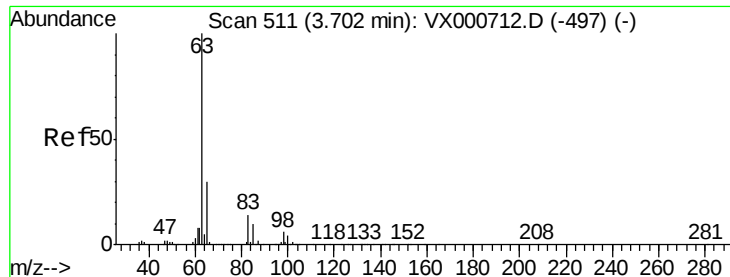
84 100

49 116.1 98.6 148.0

51 28.7 30.8 46.2#

86 86.7 50.8 76.2#





#24

1,1-Dichloroethane

Concen: 0.20 ug/l

RT: 3.70 min Scan# 511

Delta R.T. -0.00 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

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ClientSampleId :

MW-19-040218

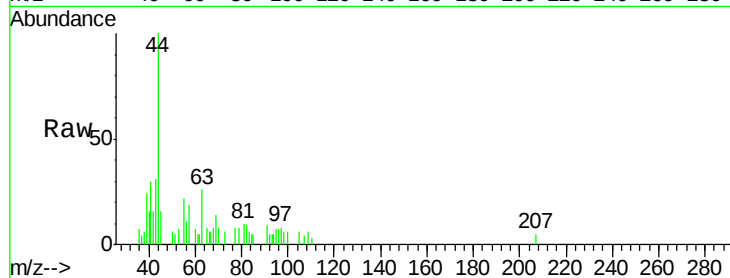
Tgt Ion: 63 Resp: 947

Ion Ratio Lower Upper

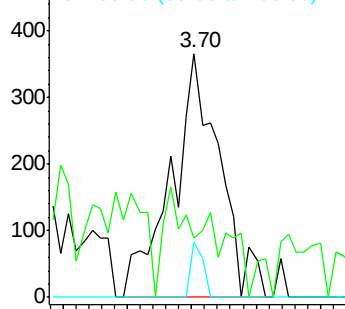
63 100

98 24.3 2.9 8.8#

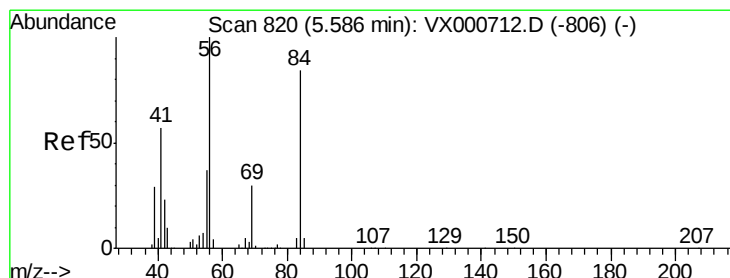
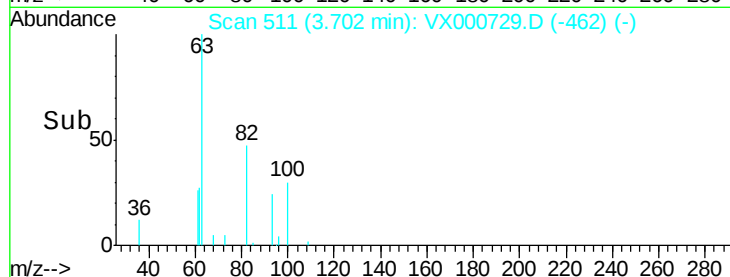
100 23.0 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 5.58 min Scan# 819

Delta R.T. -0.01 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

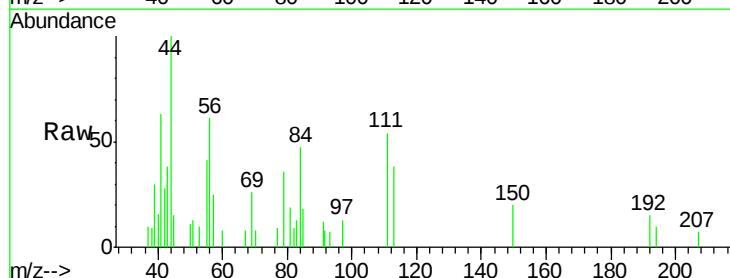
Tgt Ion: 56 Resp: 1046

Ion Ratio Lower Upper

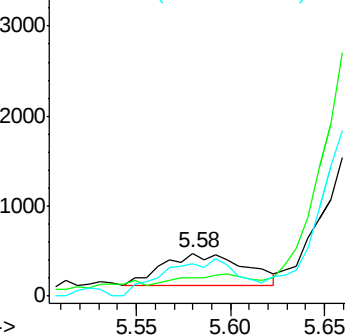
56 100

69 21.1 23.8 35.6#

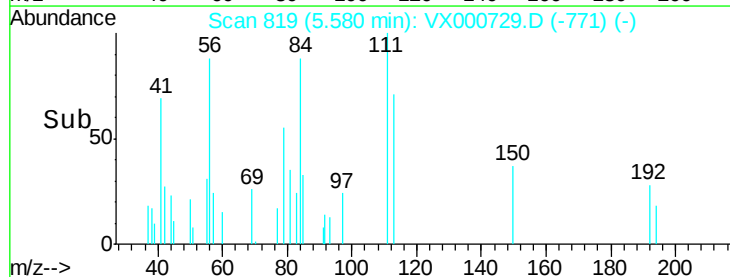
84 104.6 67.4 101.2#

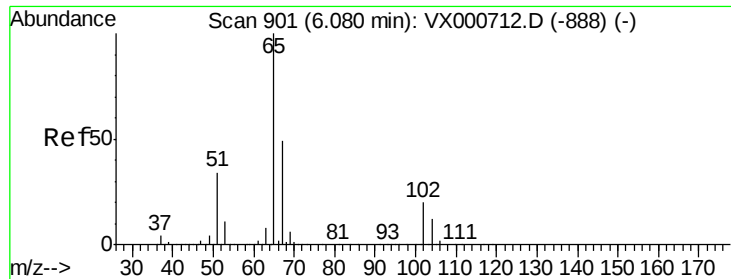


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



Time-->

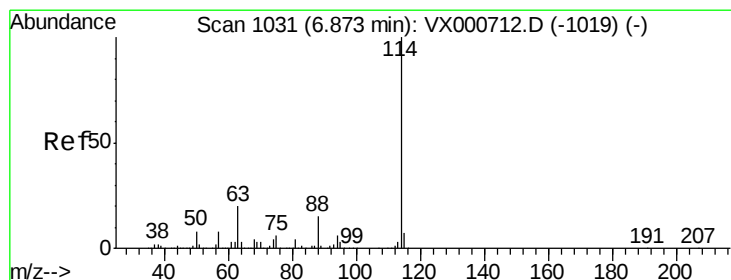
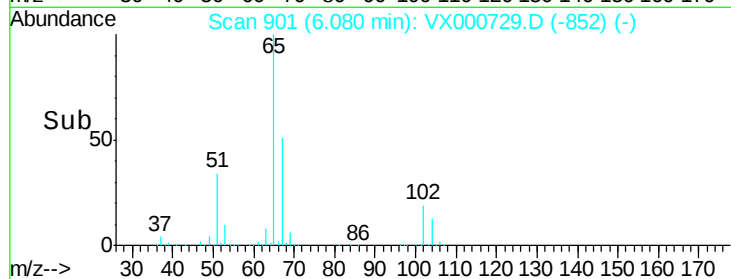
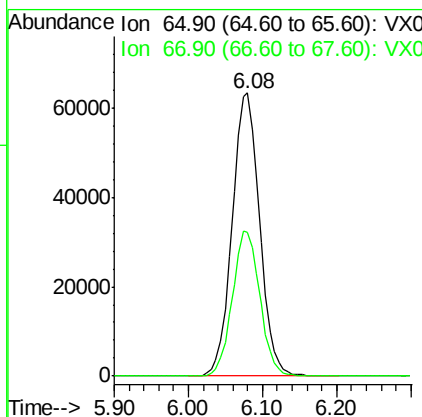
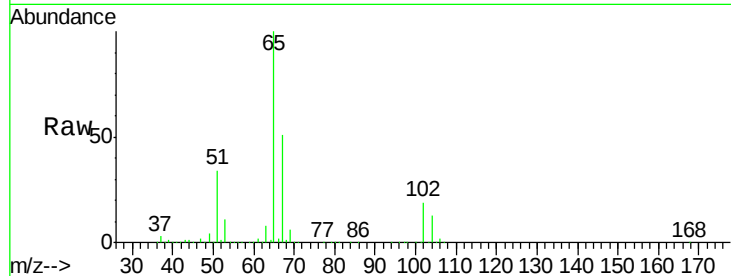




#33
 1,2-Dichloroethane-d4
 Concen: 44.80 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VX000729.D
 Acq: 08 Apr 2018 14:22

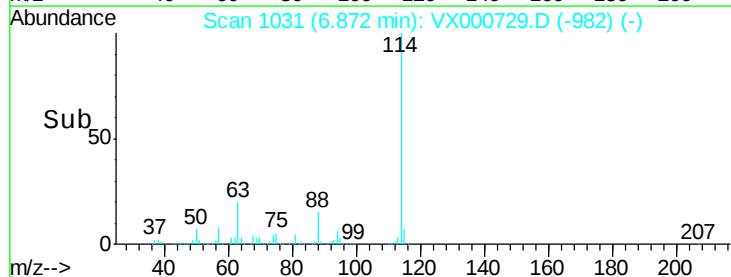
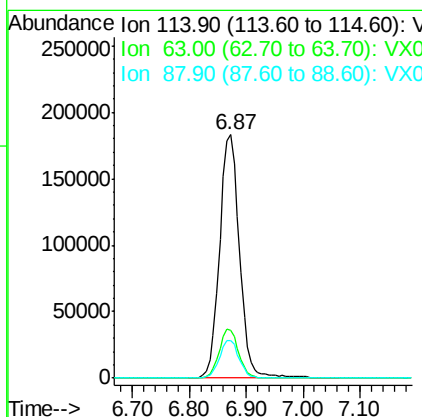
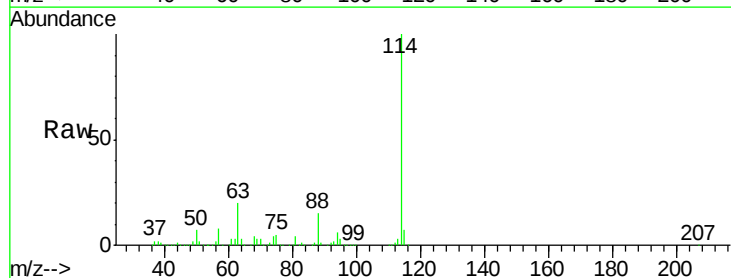
Instrument :
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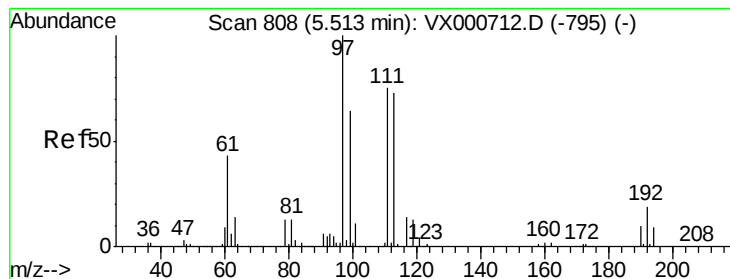
Tgt Ion: 65 Resp: 163960
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000729.D
 Acq: 08 Apr 2018 14:22

Tgt Ion: 114 Resp: 444879
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.6
 88 15.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 47.53 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19-040218

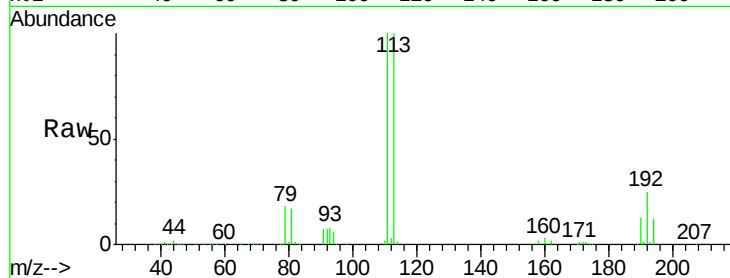
Tgt Ion:113 Resp: 136672

Ion Ratio Lower Upper

113 100

111 102.1 81.5 122.3

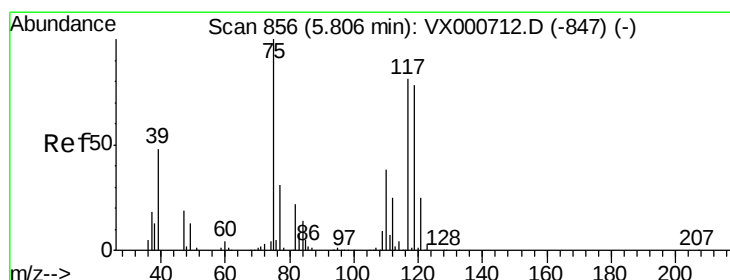
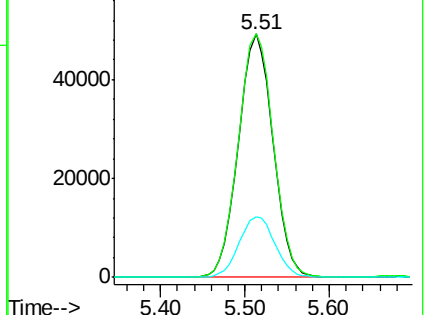
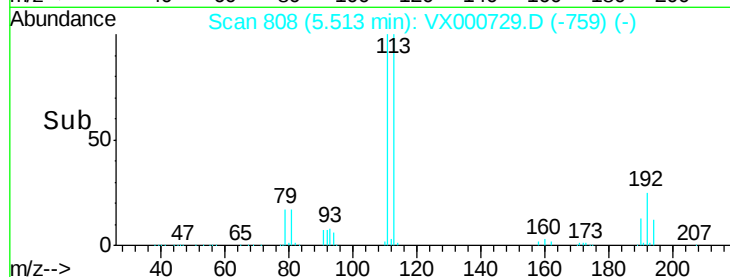
192 25.8 20.0 30.0



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: 5.19 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.13 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

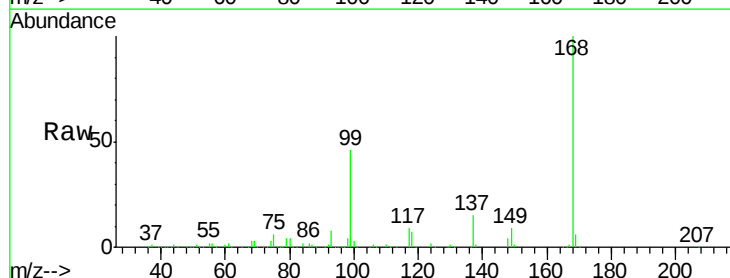
Tgt Ion: 75 Resp: 19791

Ion Ratio Lower Upper

75 100

110 10.7 18.6 56.0#

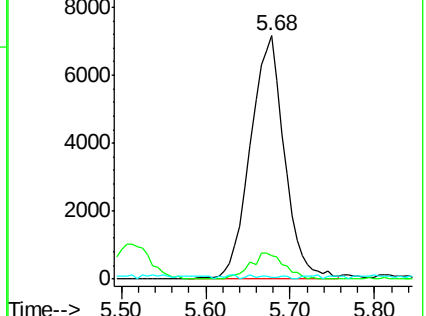
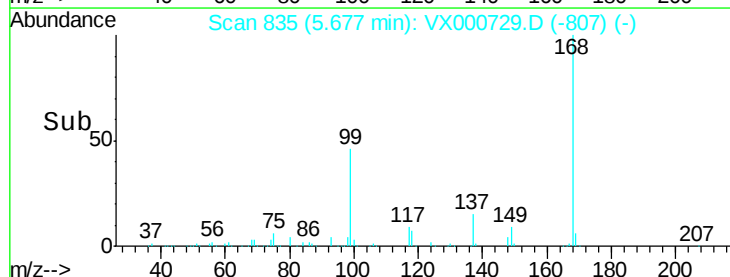
77 0.0 24.6 37.0#

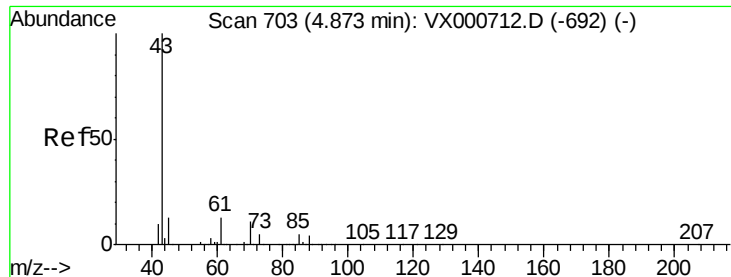


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

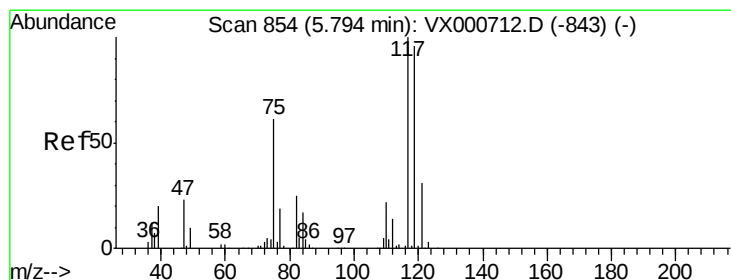
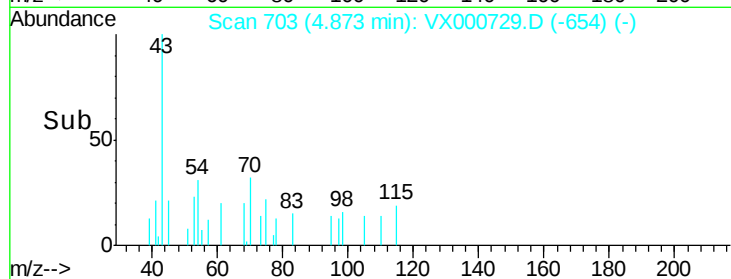
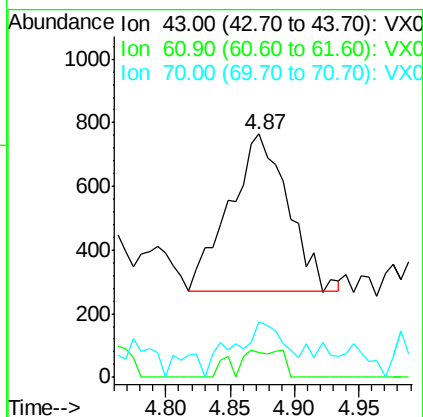
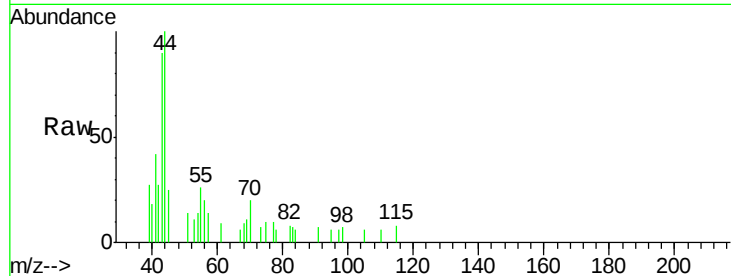




#37
Ethyl Acetate
Concen: 0.38 ug/l
RT: 4.87 min Scan# 703
Delta R.T. -0.00 min
Lab File: VX000729.D
Acq: 08 Apr 2018 14:22

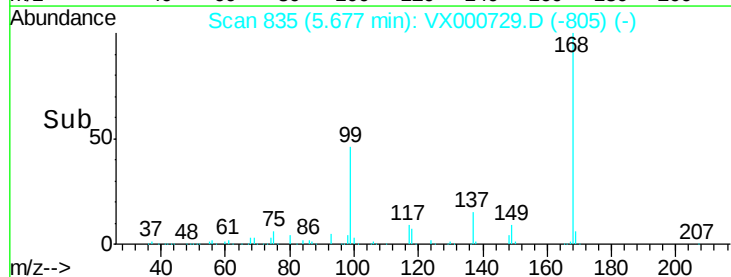
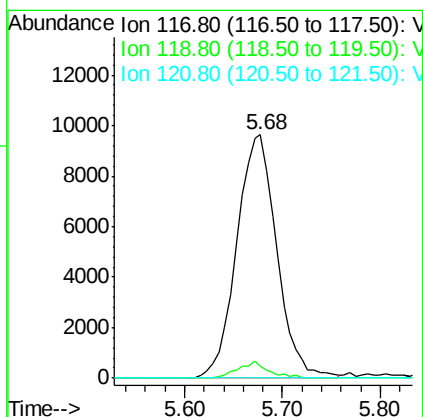
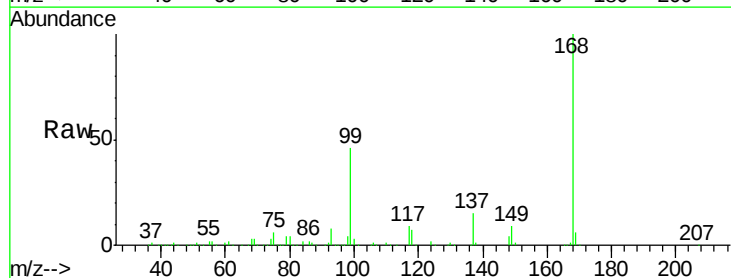
Instrument :
MSVOA_X
ClientSampled :
MW-19-040218

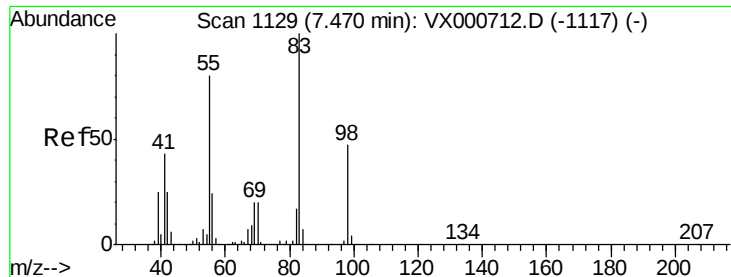
Tgt Ion: 43 Resp: 1570
Ion Ratio Lower Upper
43 100
61 11.0 10.5 15.7
70 11.2 8.4 12.6



#38
Carbon Tetrachloride
Concen: 6.14 ug/l
RT: 5.68 min Scan# 835
Delta R.T. -0.12 min
Lab File: VX000729.D
Acq: 08 Apr 2018 14:22

Tgt Ion: 117 Resp: 27419
Ion Ratio Lower Upper
117 100
119 4.8 76.7 115.1#
121 0.0 24.7 37.1#

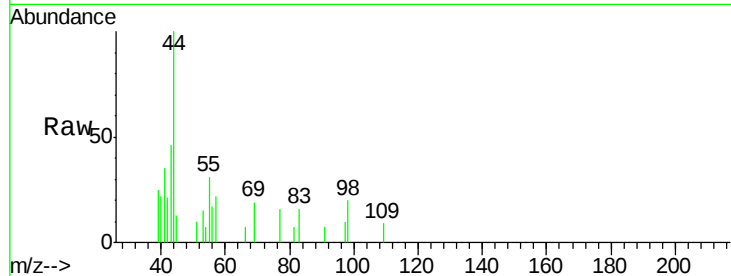




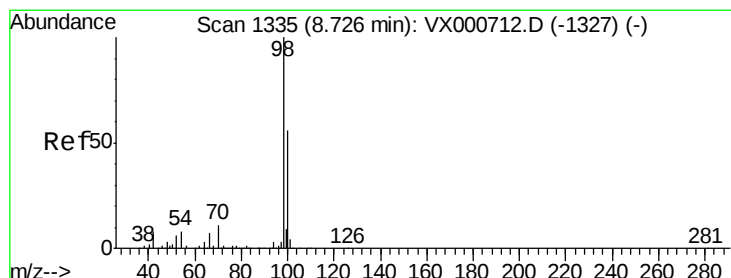
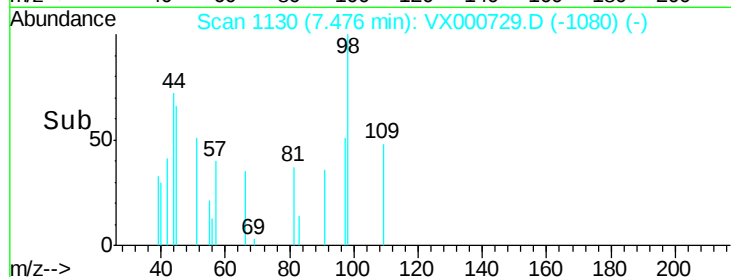
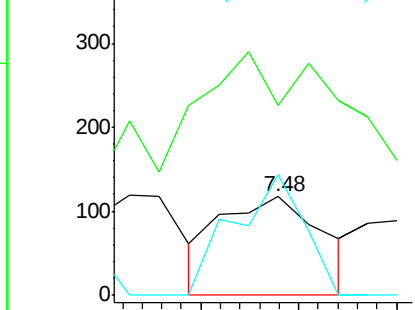
#39
Methylcyclohexane
Concen: Below Cal
RT: 7.48 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VX000729.D
Acq: 08 Apr 2018 14:22

Instrument :
MSVOA_X
ClientSampleId :
MW-19-040218

Tgt Ion: 83 Resp: 169
Ion Ratio Lower Upper
83 100
55 0.0 63.7 95.5#
98 257.1 37.2 55.8#

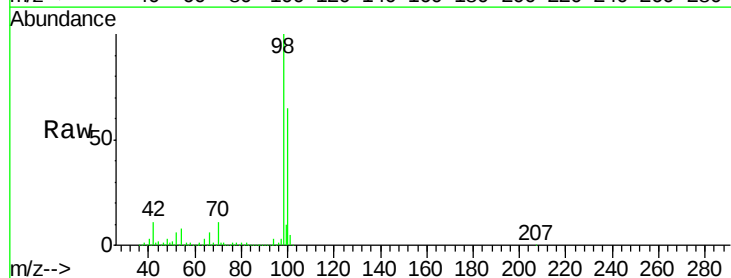


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

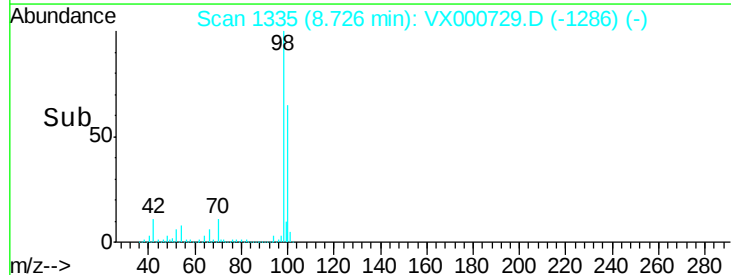
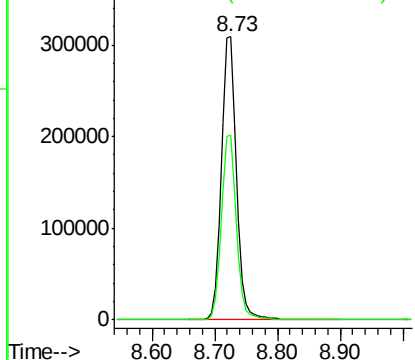


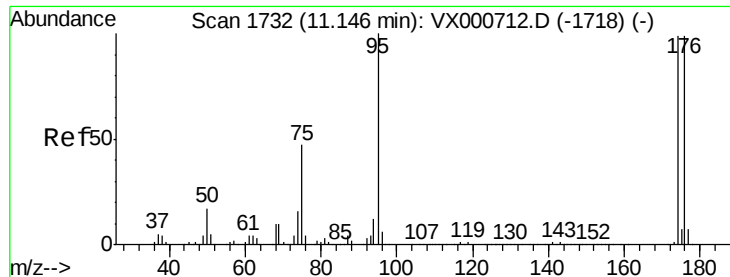
#50
Toluene-d8
Concen: 47.03 ug/l
RT: 8.73 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VX000729.D
Acq: 08 Apr 2018 14:22

Tgt Ion: 98 Resp: 512472
Ion Ratio Lower Upper
98 100
100 65.0 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 46.28 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19-040218

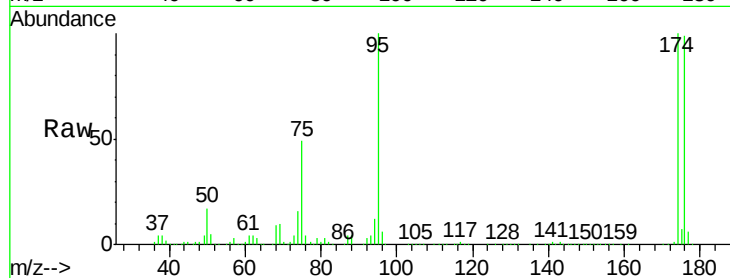
Tgt Ion: 95 Resp: 209505

Ion Ratio Lower Upper

95 100

174 95.6 0.0 191.6

176 93.7 0.0 187.0



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

200000

150000

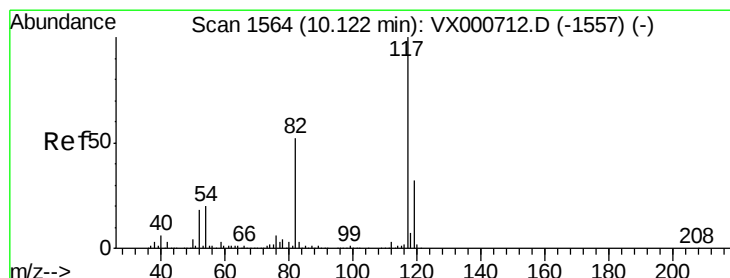
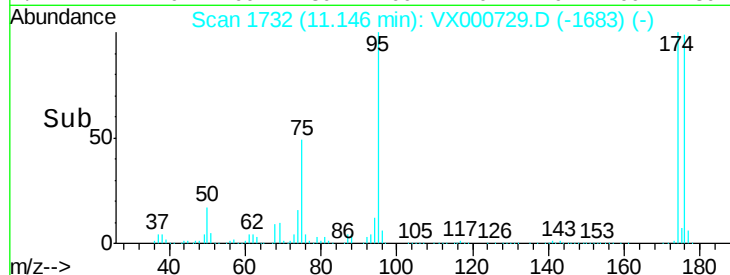
100000

50000

0

11.10 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: VX000729.D

Acq: 08 Apr 2018 14:22

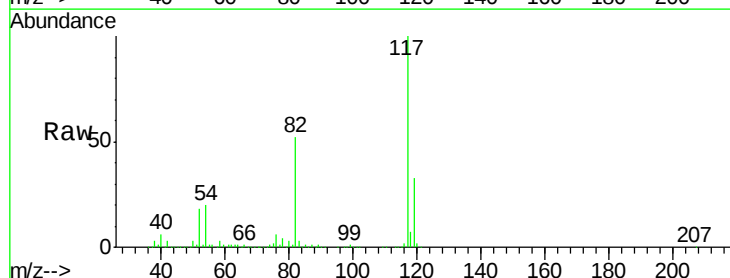
Tgt Ion: 117 Resp: 411948

Ion Ratio Lower Upper

117 100

82 51.8 41.9 62.9

119 32.5 25.8 38.8



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

400000

300000

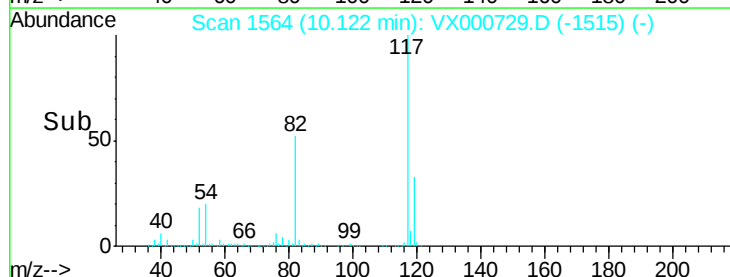
200000

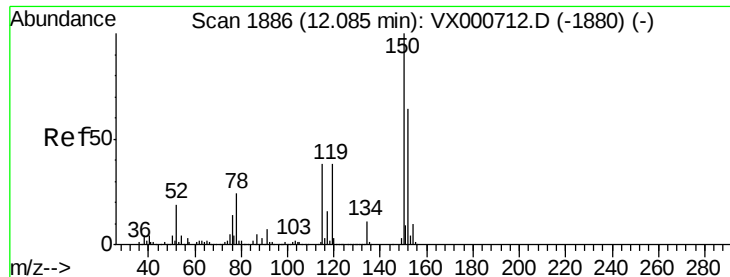
100000

0

10.10 10.20 10.30

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19-040218

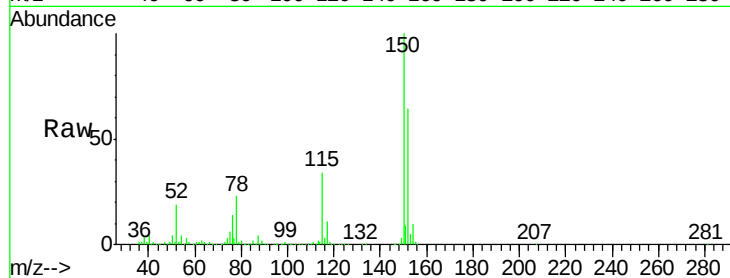
Tgt Ion:152 Resp: 242944

Ion Ratio Lower Upper

152 100

115 54.2 37.7 113.1

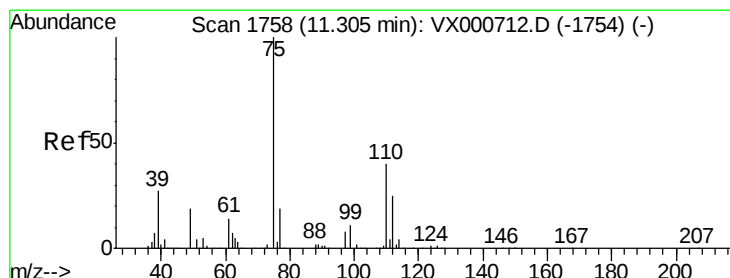
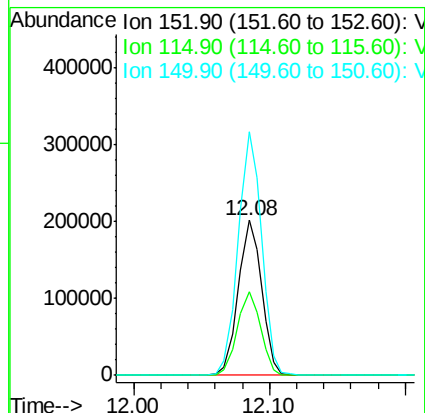
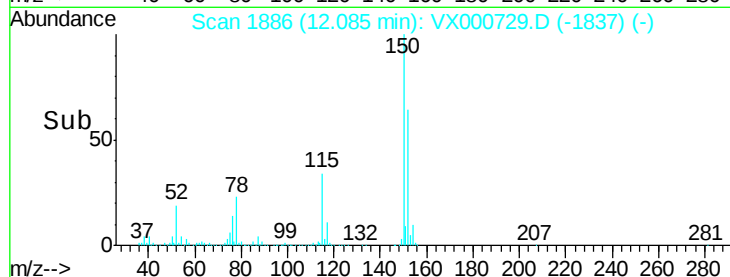
150 156.6 0.0 345.0



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: 24.86 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000729.D

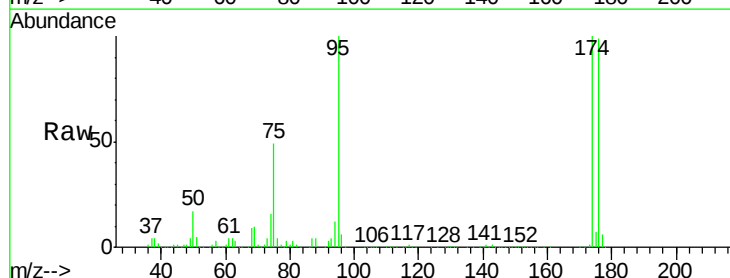
Acq: 08 Apr 2018 14:22

Tgt Ion: 75 Resp: 102773

Ion Ratio Lower Upper

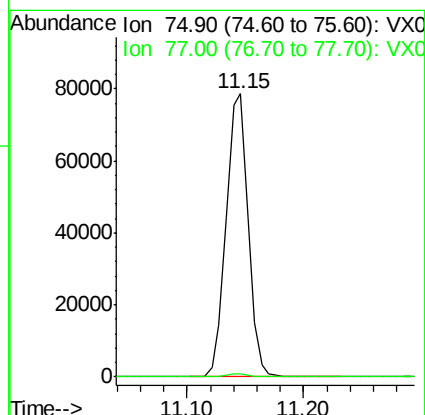
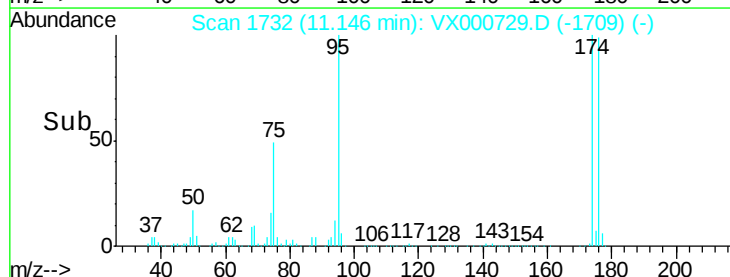
75 100

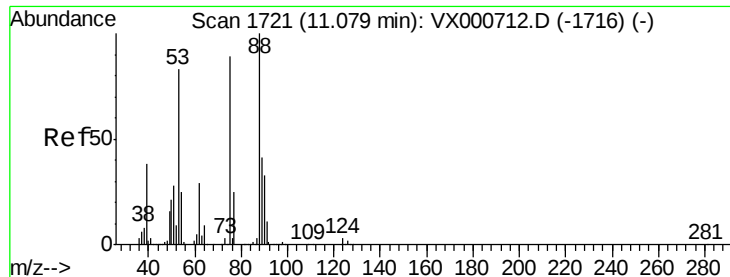
77 1.3 21.3 63.7#



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: 64.73 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.07 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19-040218

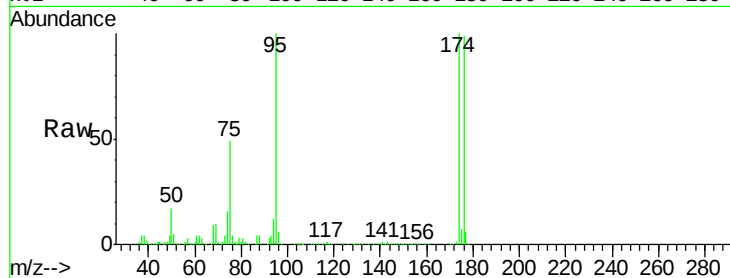
Tgt Ion: 75 Resp: 102773

Ion Ratio Lower Upper

75 100

53 0.1 74.2 111.2#

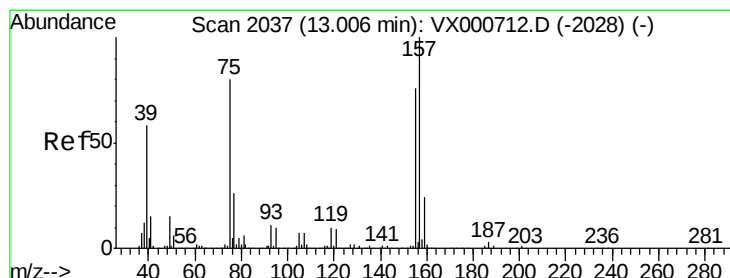
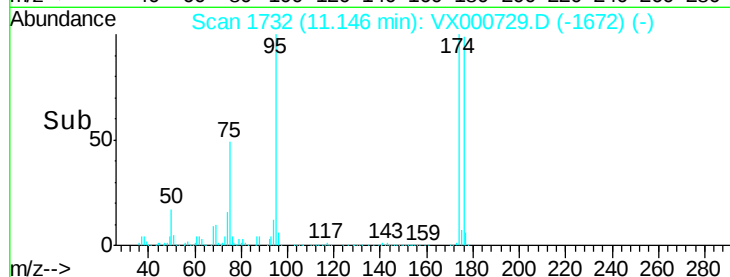
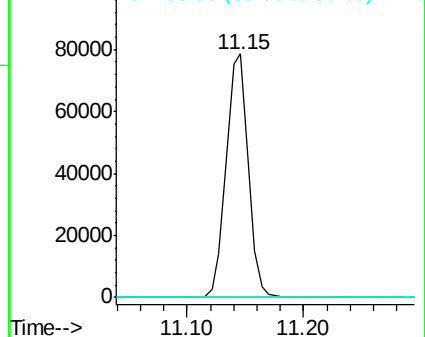
89 0.0 46.6 69.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.22 ug/l

RT: 12.82 min Scan# 2007

Delta R.T. -0.18 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

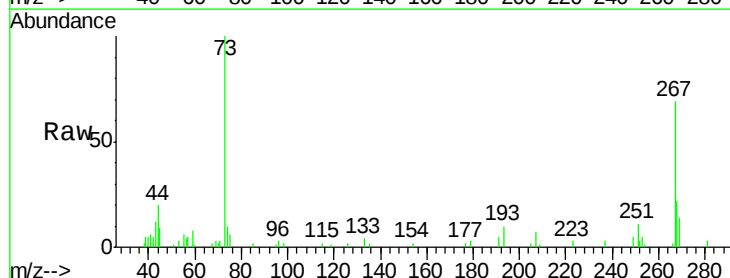
Tgt Ion: 75 Resp: 244

Ion Ratio Lower Upper

75 100

155 0.0 48.4 145.0#

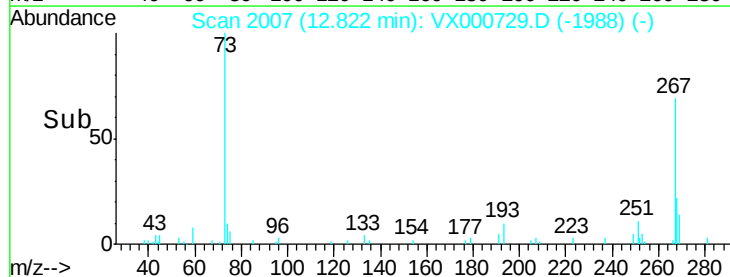
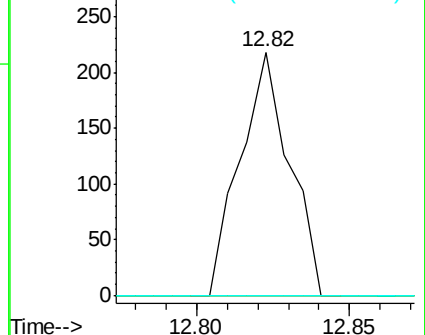
157 0.0 62.8 188.5#

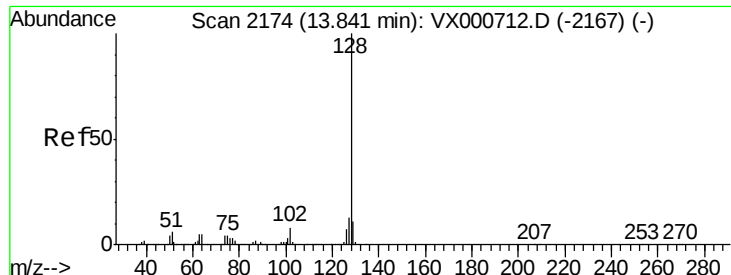


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.40 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000729.D

Acq: 08 Apr 2018 14:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19-040218

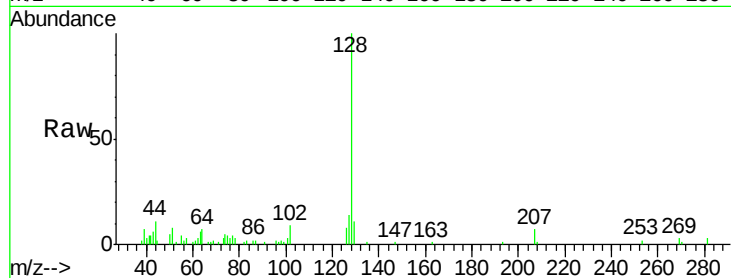
Tgt Ion:128 Resp: 6657

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 11.2 8.8 13.2



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

