

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX040818\
 Data File : VX000731.D
 Acq On : 08 Apr 2018 15:13
 Operator : JC/MD
 Sample : J2190-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-18-040218

Quant Time: Apr 09 06:41:20 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	322813	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	444435	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	414230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	243551	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	161886	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	
35) Dibromofluoromethane	5.51	113	136279	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	
50) Toluene-d8	8.72	98	513528	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
62) 4-Bromofluorobenzene	11.15	95	210298	46.51	ug/l	0.00
Spiked Amount			Recovery	=	93.02%	

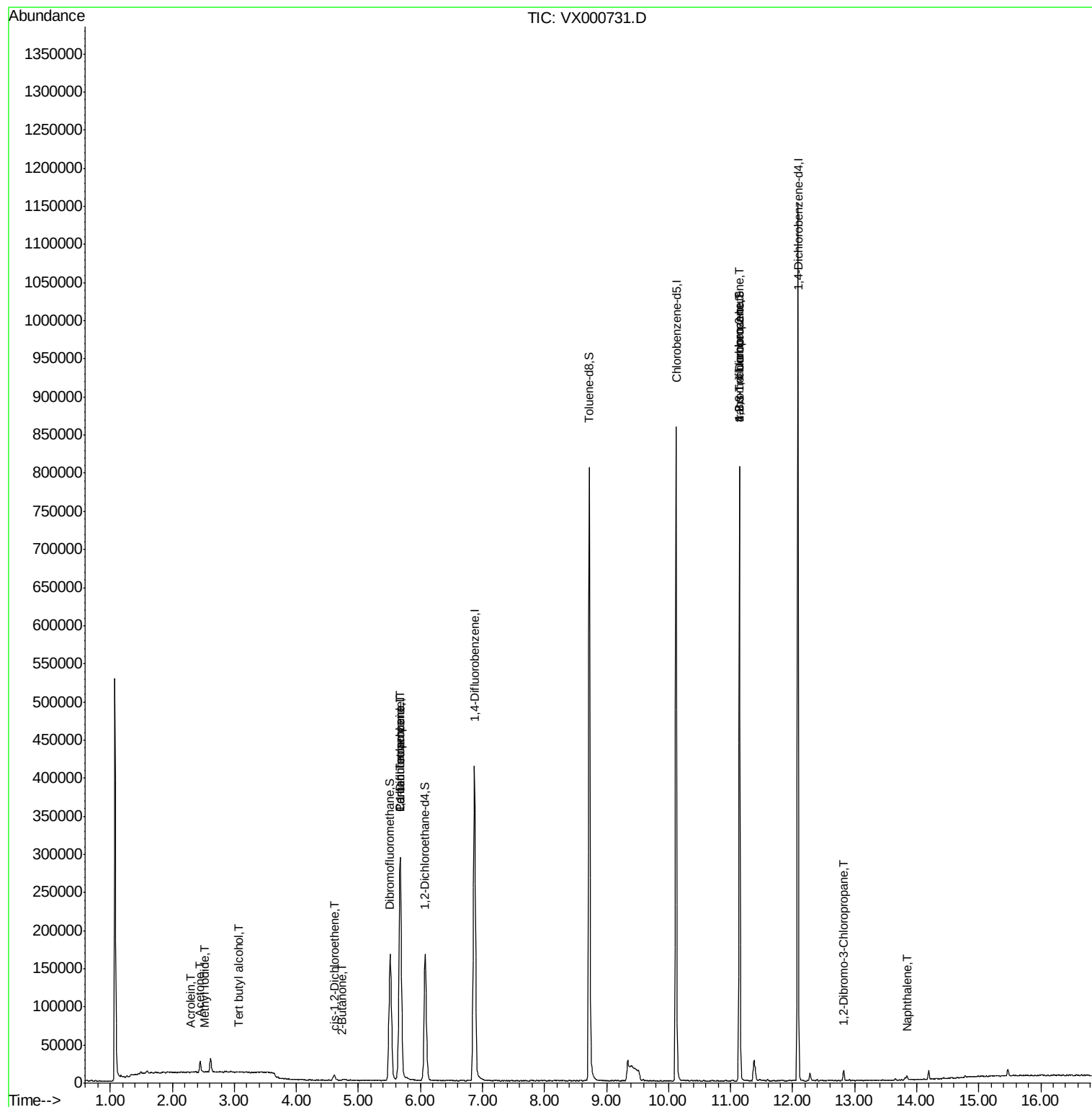
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	469	Below Cal	#	74
5) Bromomethane	1.66	94	323	Below Cal	#	60
8) Diethyl Ether	2.26	74	68	Below Cal		62
10) Methyl Iodide	2.53	142	218	5.43	ug/l	# 41
11) Tert butyl alcohol	3.06	59	972	1.55	ug/l	# 44
13) Acrolein	2.29	56	113	0.41	ug/l	# 63
16) Acetone	2.45	43	16440	14.20	ug/l	99
17) Carbon Disulfide	2.57	76	559	Below Cal	#	44
20) Methylene Chloride	2.87	84	1224	Below Cal		92
25) 2-Butanone	4.73	43	738	0.36	ug/l	# 77
27) cis-1,2-Dichloroethene	4.61	96	4307	1.39	ug/l	73
31) Cyclohexane	5.58	56	1360	Below Cal	#	60
36) 1,1-Dichloropropene	5.67	75	19157	5.03	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	26549	5.95	ug/l	# 16
39) Methylcyclohexane	7.46	83	181	Below Cal		95
76) 1,2,3-Trichloropropane	11.14	75	103383	24.95	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	11.14	75	103383	64.95	ug/l	# 11
92) 1,2-Dibromo-3-Chloropropan	12.82	75	289	0.25	ug/l	# 1
95) Naphthalene	13.84	128	3586	0.21	ug/l	98

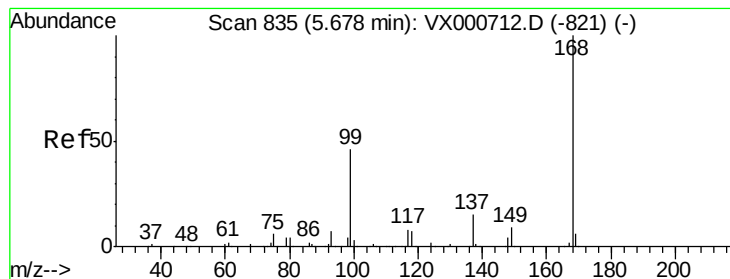
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

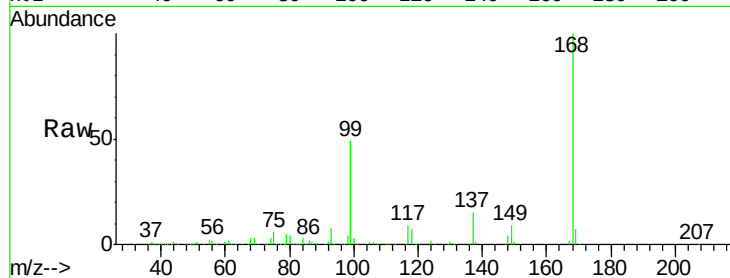
MW-18-040218

Tgt Ion:168 Resp: 322813

Ion Ratio Lower Upper

168 100

99 48.7 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

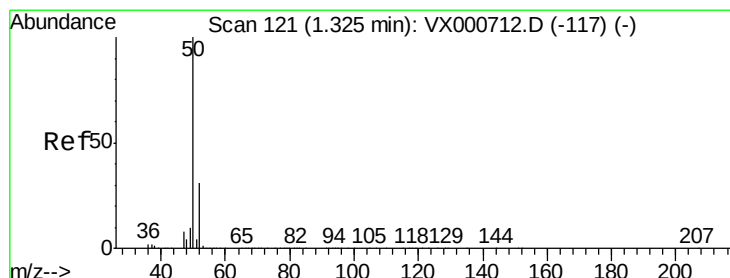
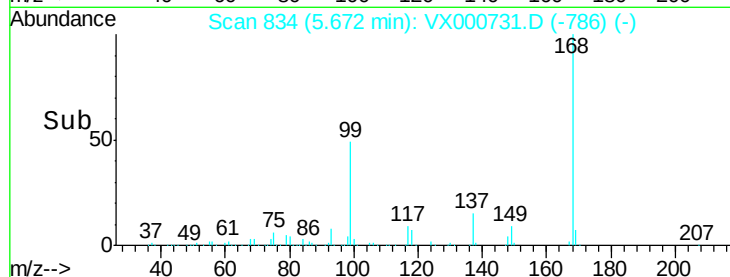
40000

20000

0

Time-->

5.60 5.80 6.00



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX000731.D

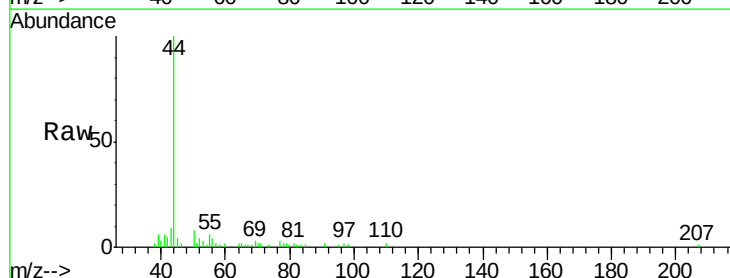
Acq: 08 Apr 2018 15:13

Tgt Ion: 50 Resp: 469

Ion Ratio Lower Upper

50 100

52 45.6 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

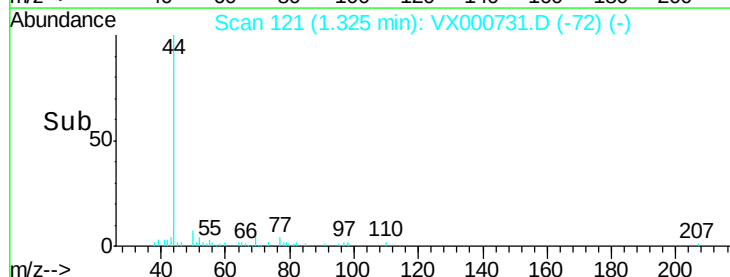
200

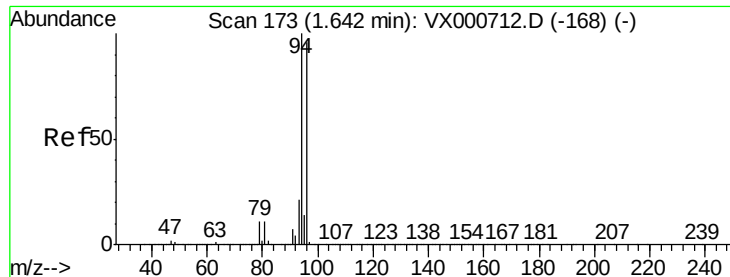
100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

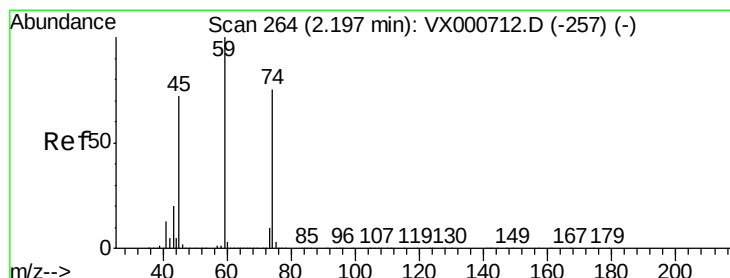
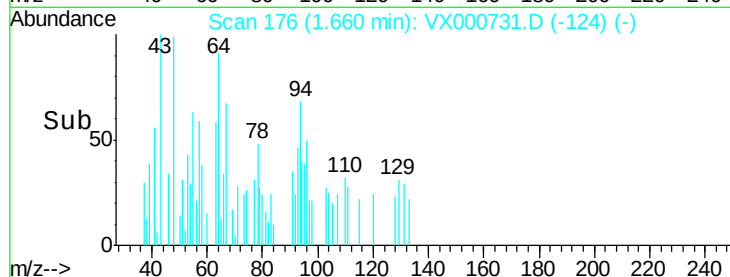
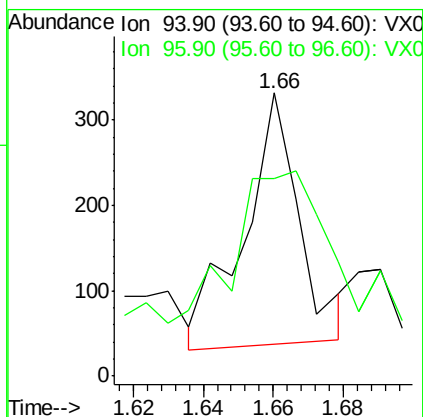
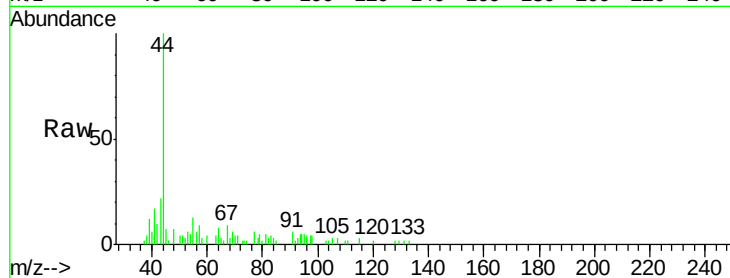
MW-18-040218

Tgt Ion: 94 Resp: 323

Ion Ratio Lower Upper

94 100

96 56.4 76.5 114.7#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.26 min Scan# 274

Delta R.T. 0.06 min

Lab File: VX000731.D

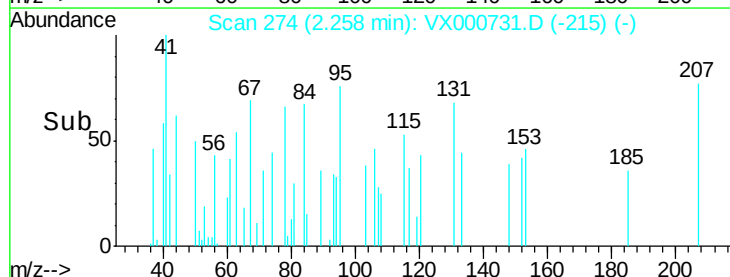
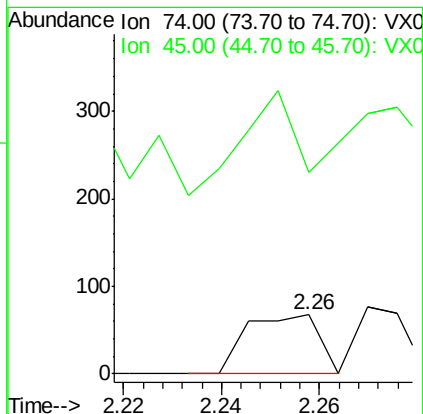
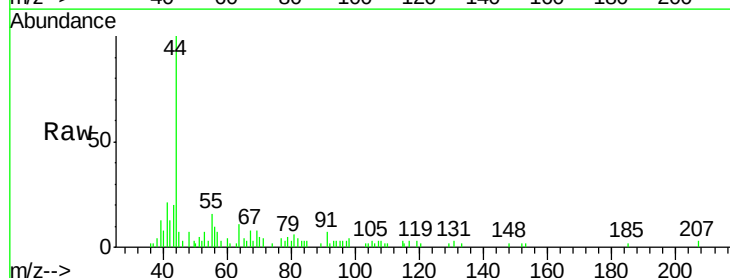
Acq: 08 Apr 2018 15:13

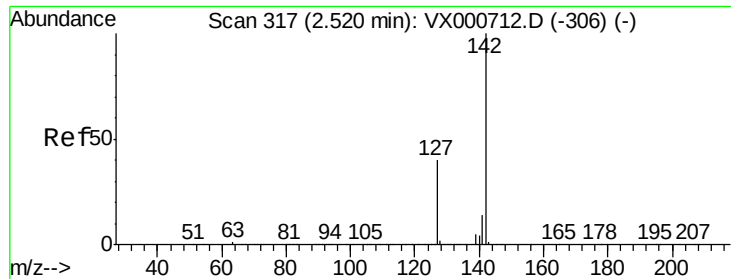
Tgt Ion: 74 Resp: 68

Ion Ratio Lower Upper

74 100

45 133.8 48.4 145.3

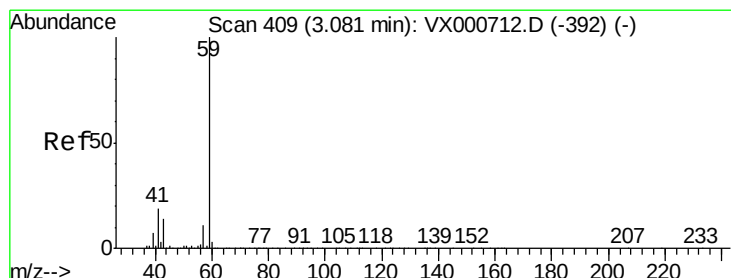
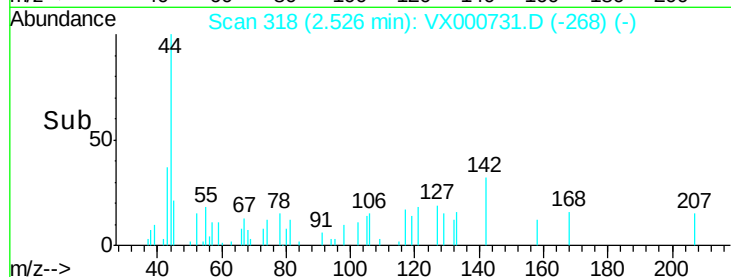
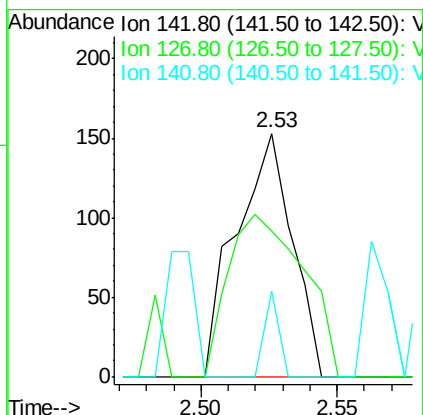
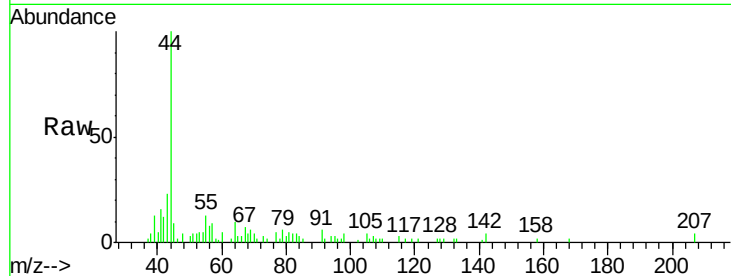




#10
Methyl Iodide
Concen: 5.43 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

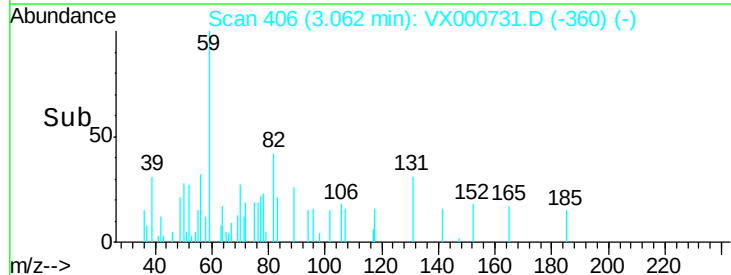
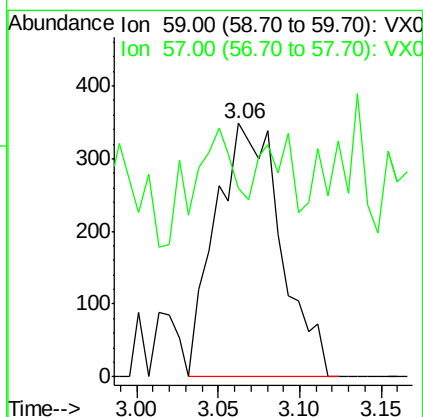
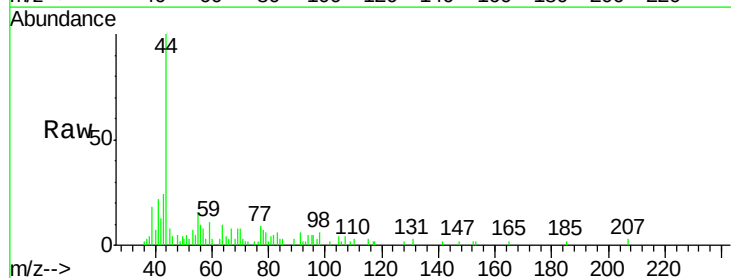
Instrument :
MSVOA_X
ClientSampleId :
MW-18-040218

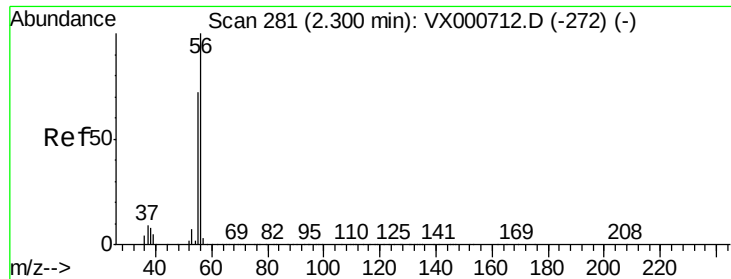
Tgt Ion:142 Resp: 218
Ion Ratio Lower Upper
142 100
127 89.9 33.9 50.9#
141 9.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.55 ug/l
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

Tgt Ion: 59 Resp: 972
Ion Ratio Lower Upper
59 100
57 31.6 8.4 12.6#

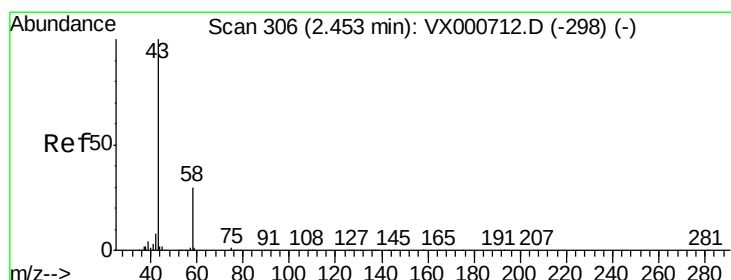
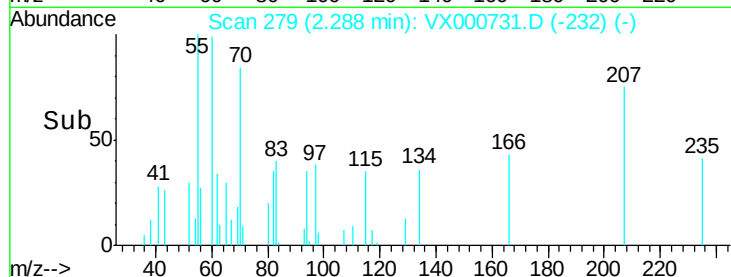
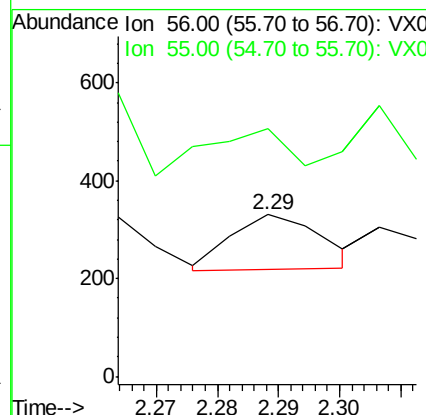
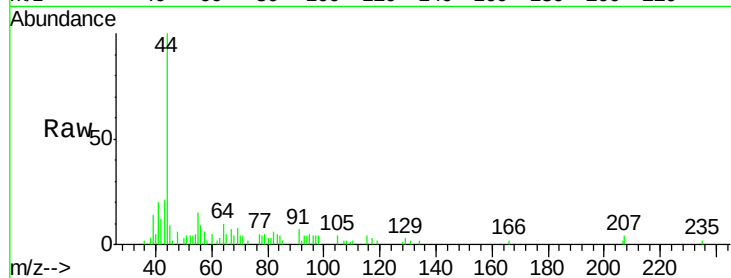




#13
Acrolein
Concen: 0.41 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

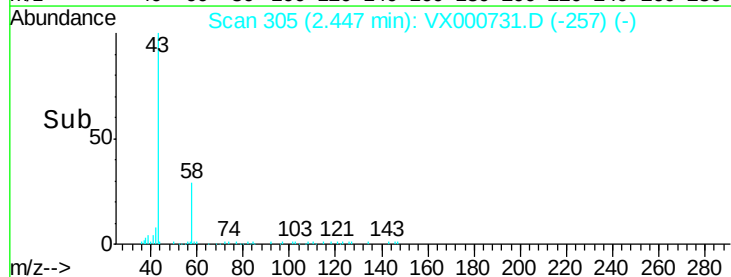
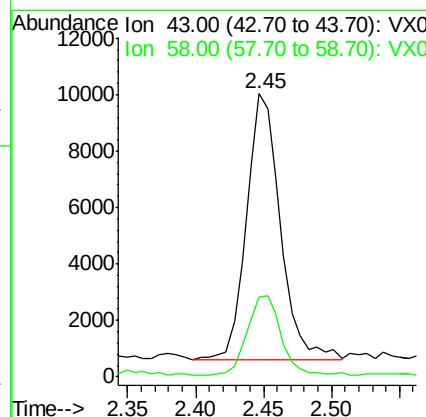
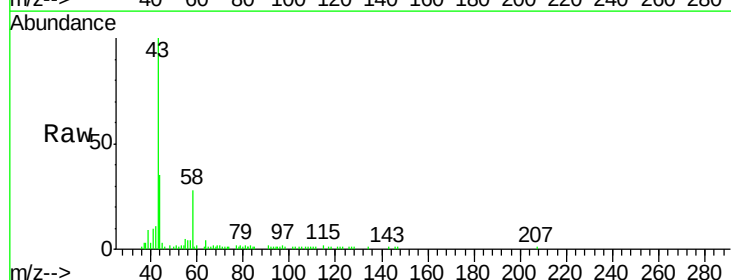
Instrument :
MSVOA_X
ClientSampleId :
MW-18-040218

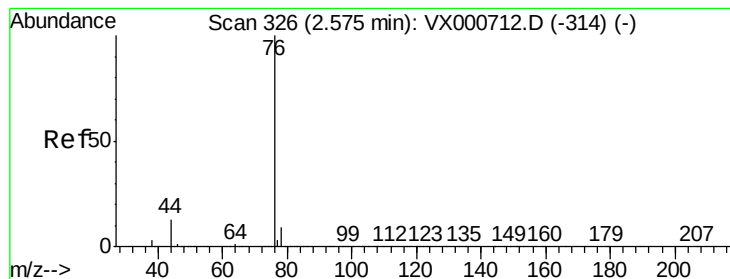
Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 40.7 57.4 86.2#



#16
Acetone
Concen: 14.20 ug/l
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

Tgt Ion: 43 Resp: 16440
Ion Ratio Lower Upper
43 100
58 29.3 24.0 36.0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

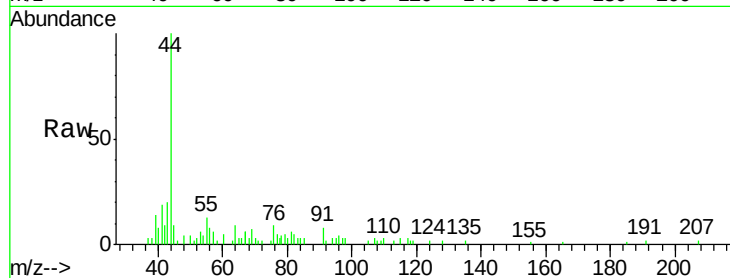
MW-18-040218

Tgt Ion: 76 Resp: 559

Ion Ratio Lower Upper

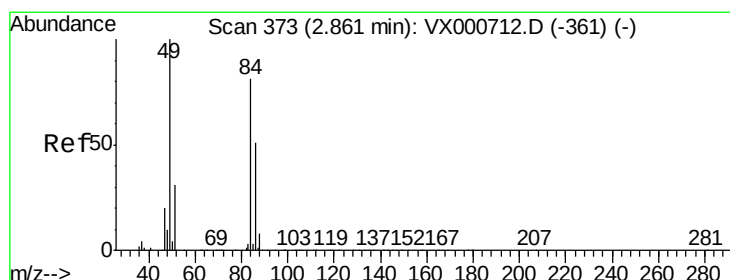
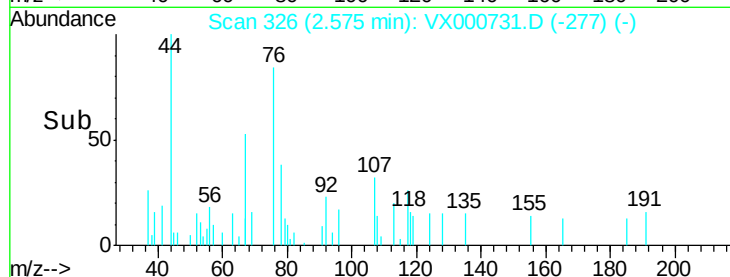
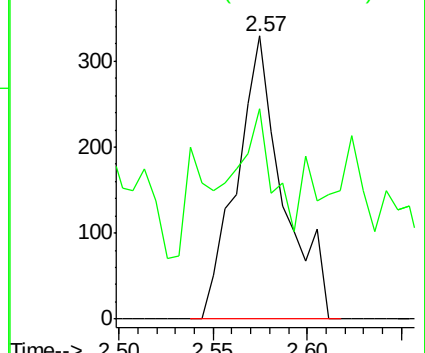
76 100

78 29.2 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Tgt Ion: 84 Resp: 1224

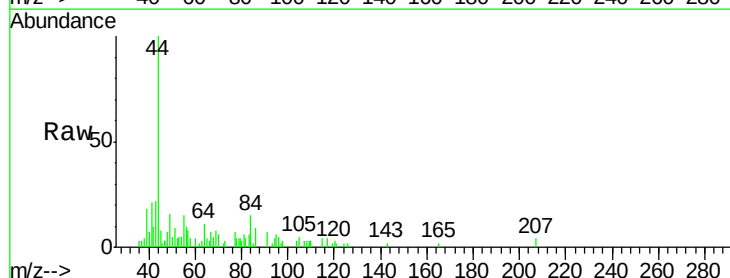
Ion Ratio Lower Upper

84 100

49 109.8 98.6 148.0

51 32.4 30.8 46.2

86 63.4 50.8 76.2

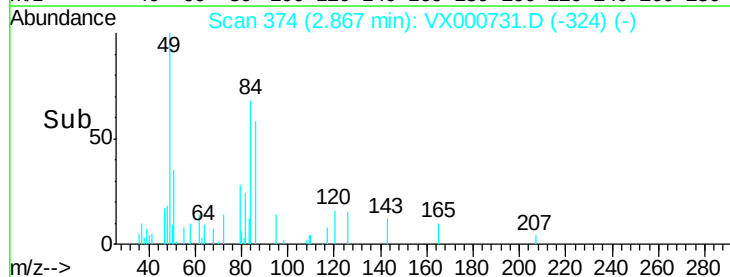
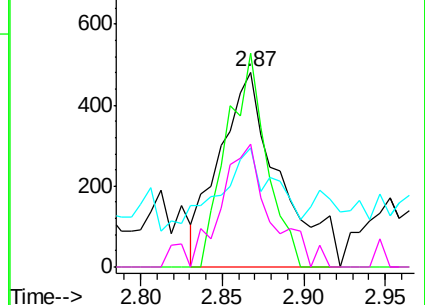


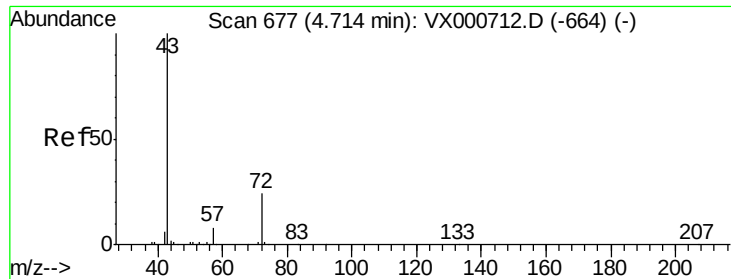
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.36 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

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ClientSampleId :

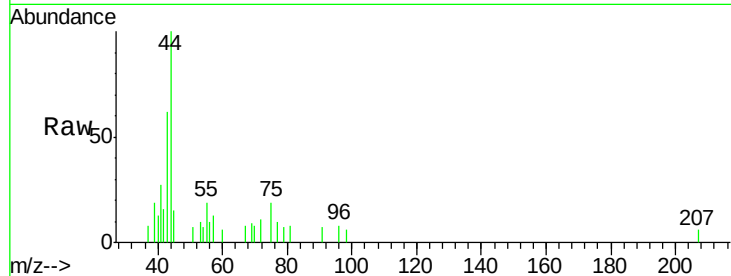
MW-18-040218

Tgt Ion: 43 Resp: 738

Ion Ratio Lower Upper

43 100

72 34.8 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.73

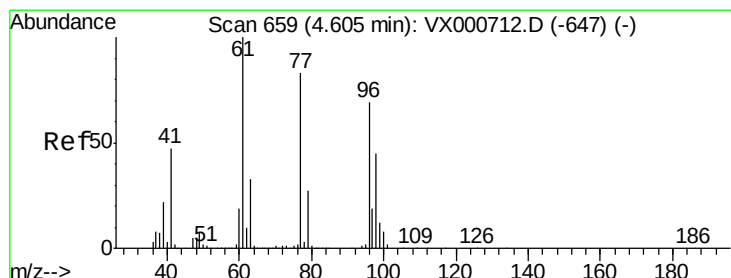
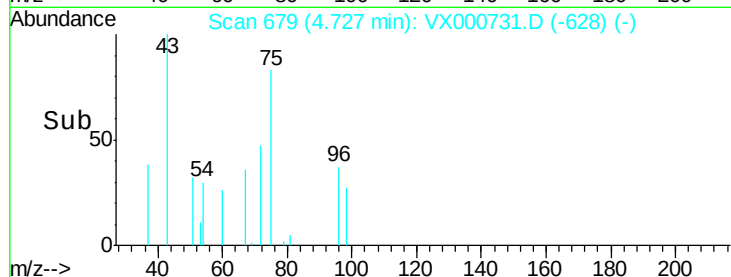
600

400

200

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.39 ug/l

RT: 4.61 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

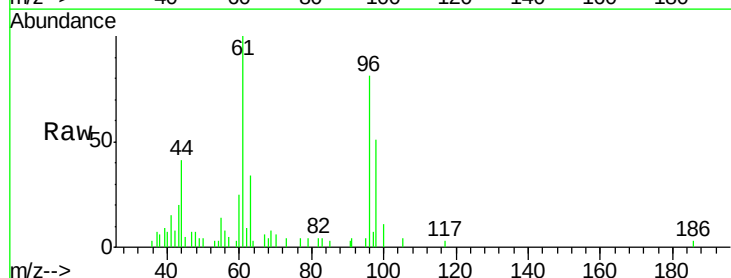
Tgt Ion: 96 Resp: 4307

Ion Ratio Lower Upper

96 100

61 122.5 0.0 301.0

98 33.5 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

2500

2000

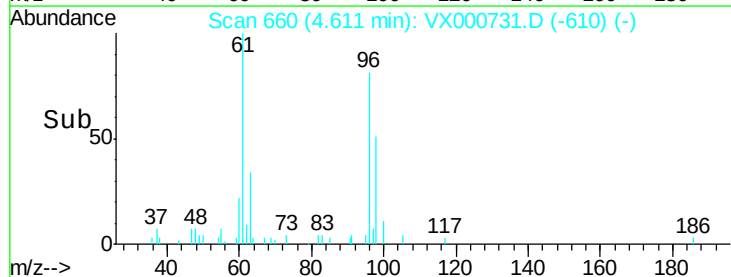
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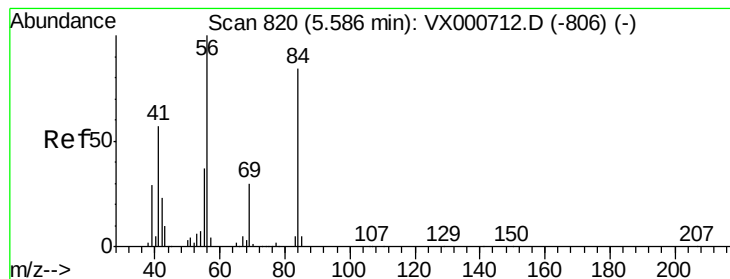
1000

500

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 5.58 min Scan# 819

Delta R.T. -0.01 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

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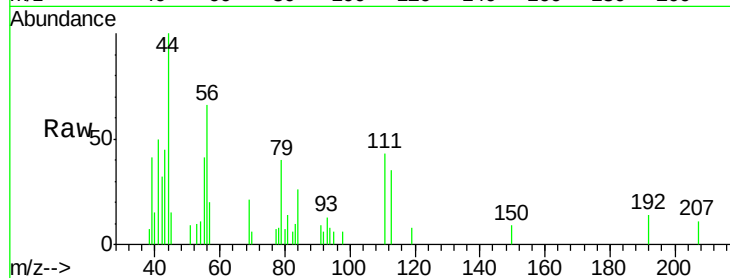
Tgt Ion: 56 Resp: 1360

Ion Ratio Lower Upper

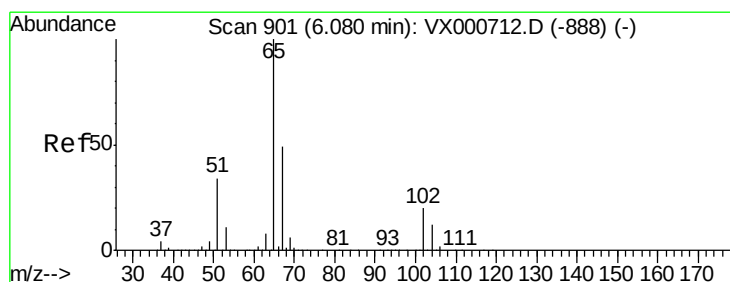
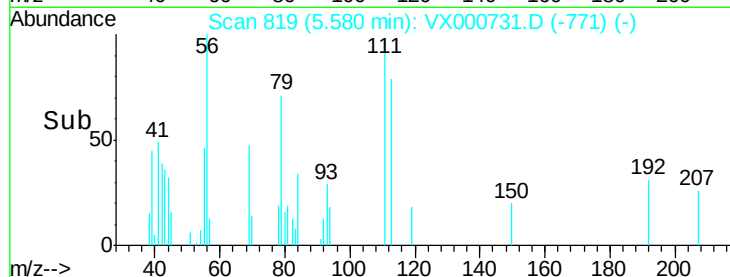
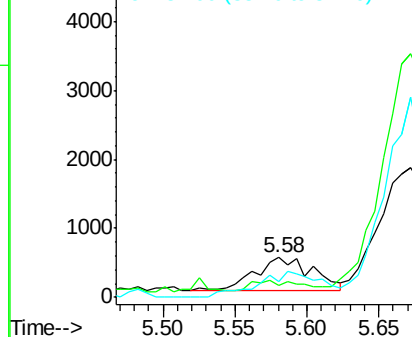
56 100

69 11.3 23.8 35.6#

84 46.4 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



#33

1,2-Dichloroethane-d4

Concen: 43.85 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX000731.D

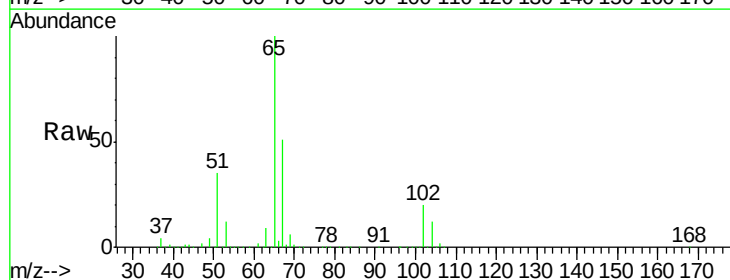
Acq: 08 Apr 2018 15:13

Tgt Ion: 65 Resp: 161886

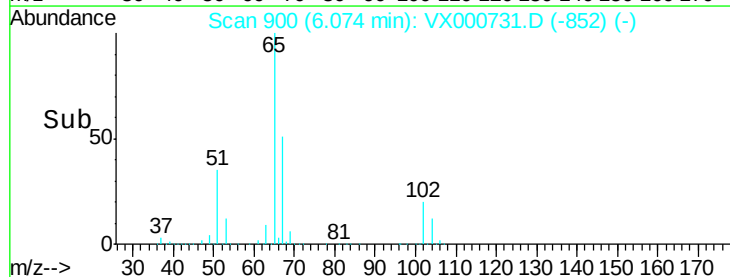
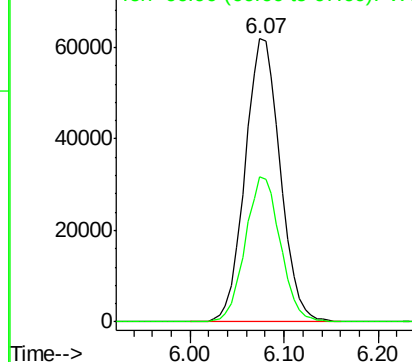
Ion Ratio Lower Upper

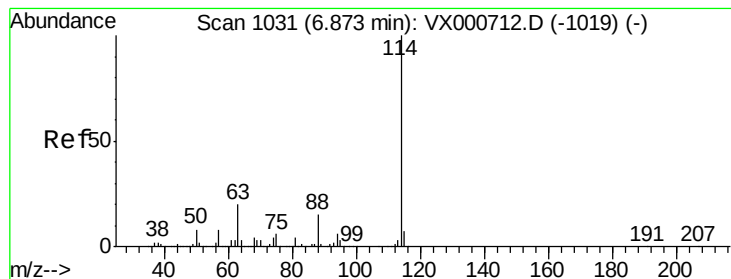
65 100

67 50.8 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# 1031

Delta R.T. 0.00 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

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MW-18-040218

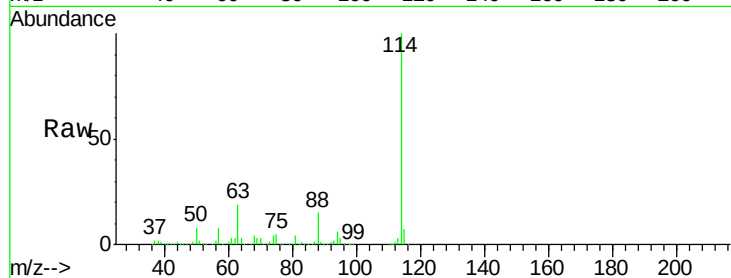
Tgt Ion:114 Resp: 444435

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.6

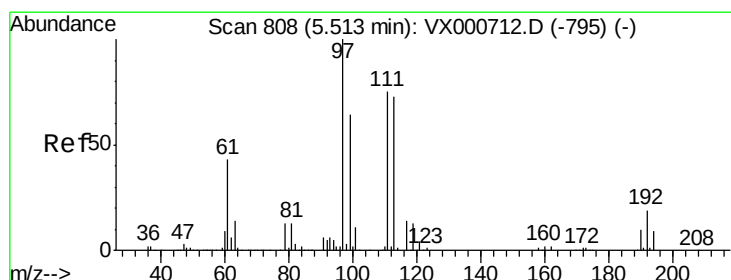
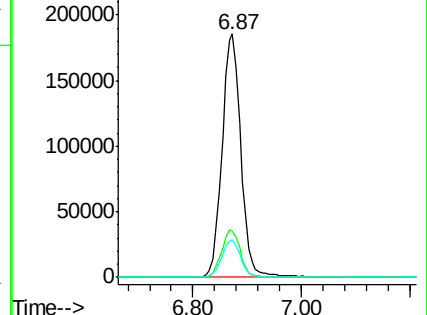
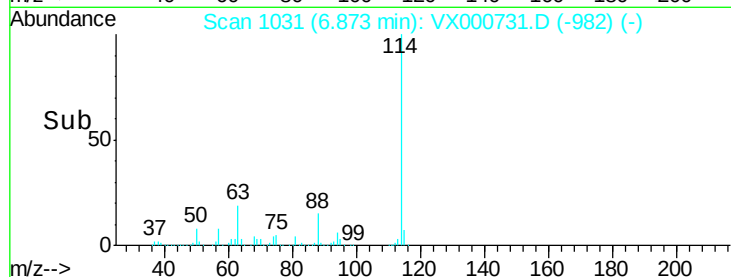
88 15.4 0.0 30.6



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: 47.44 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

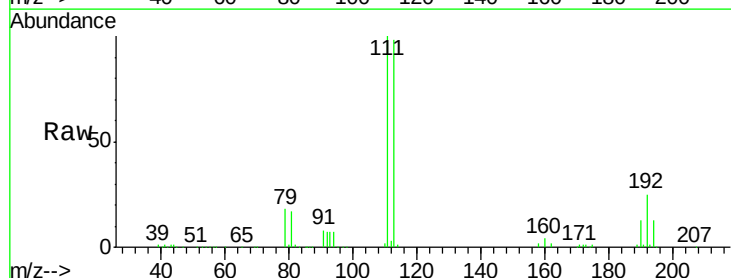
Tgt Ion:113 Resp: 136279

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

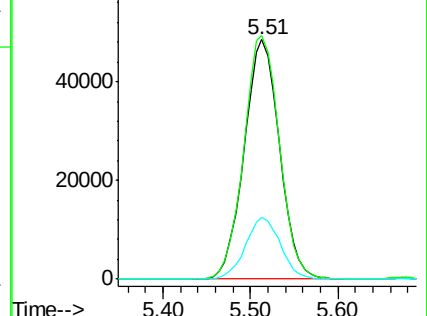
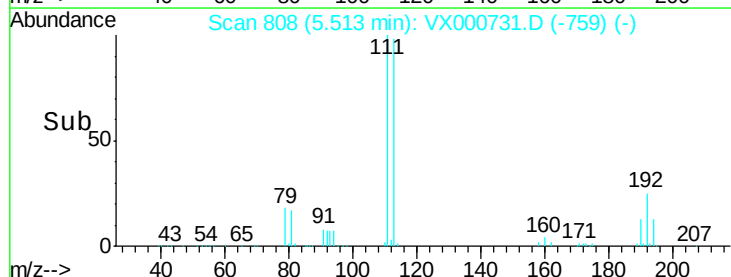
192 25.6 20.0 30.0

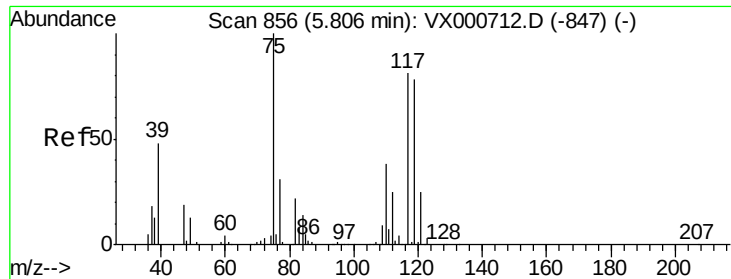


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

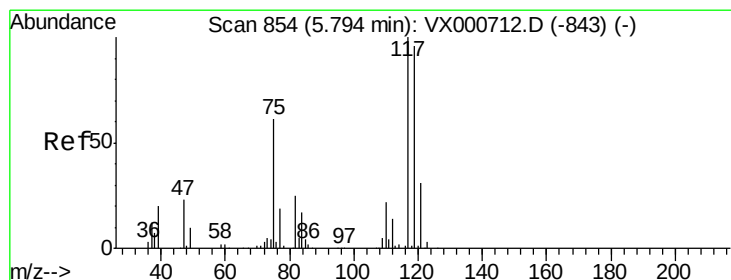
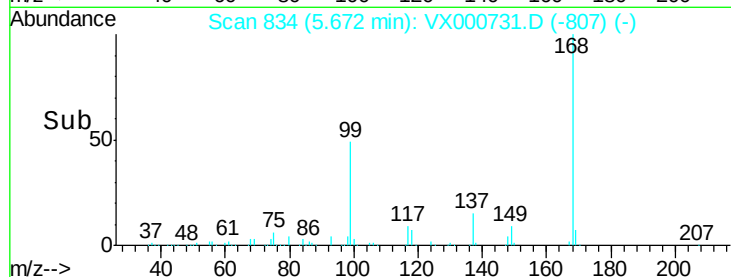
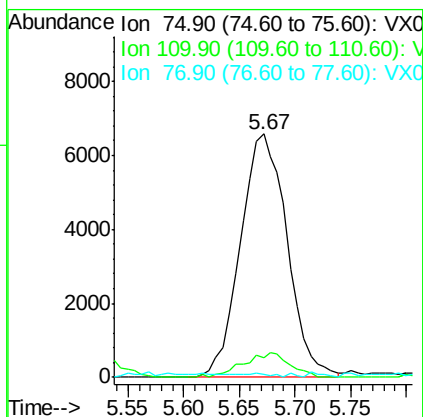
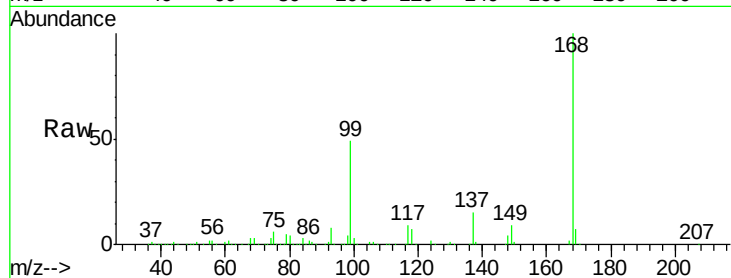




#36
 1,1-Dichloropropene
 Concen: 5.03 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000731.D
 Acq: 08 Apr 2018 15:13

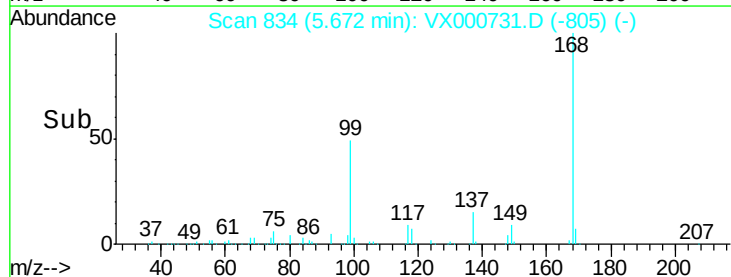
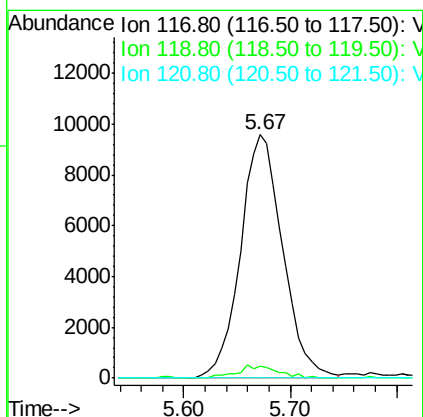
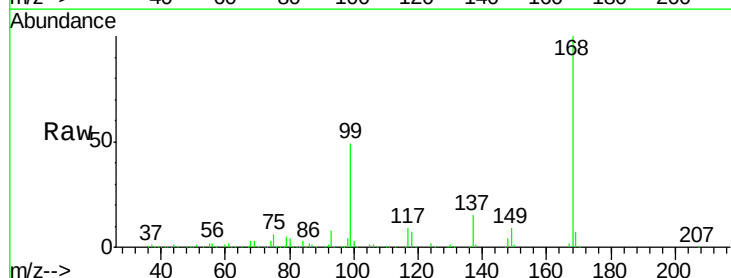
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-18-040218

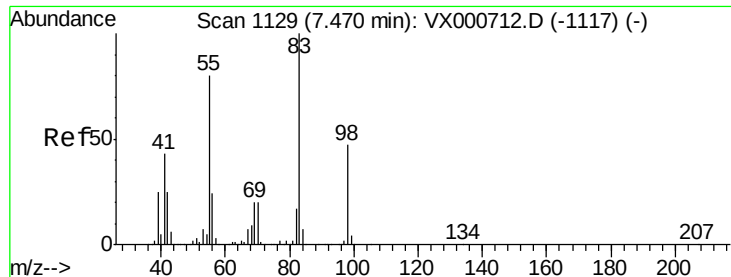
Tgt Ion: 75 Resp: 19157
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.6 56.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.95 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000731.D
 Acq: 08 Apr 2018 15:13

Tgt Ion: 117 Resp: 26549
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.7 115.1#
 121 0.0 24.7 37.1#

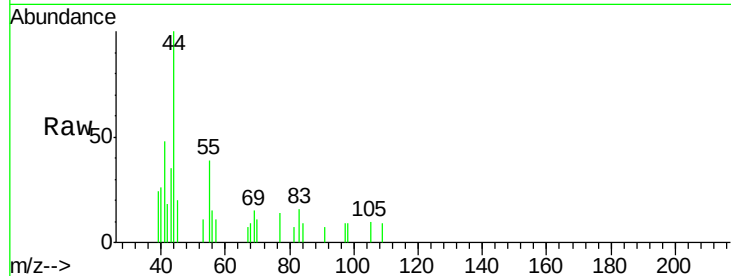




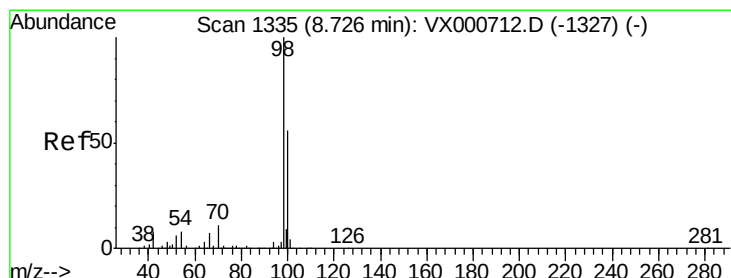
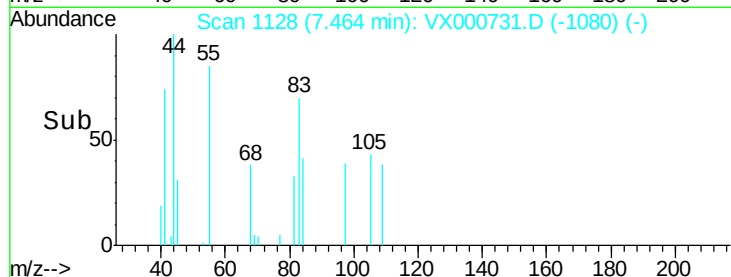
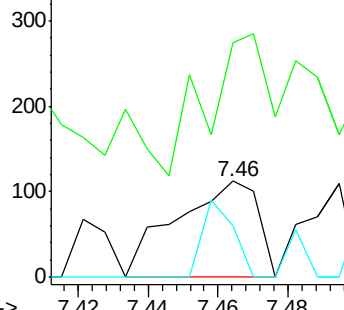
#39
Methylcyclohexane
Concen: Below Cal
RT: 7.46 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

Instrument :
MSVOA_X
ClientSampleId :
MW-18-040218

Tgt Ion: 83 Resp: 181
Ion Ratio Lower Upper
83 100
55 78.6 63.7 95.5
98 53.6 37.2 55.8

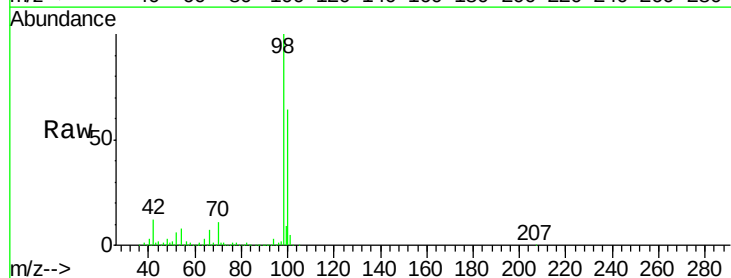


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

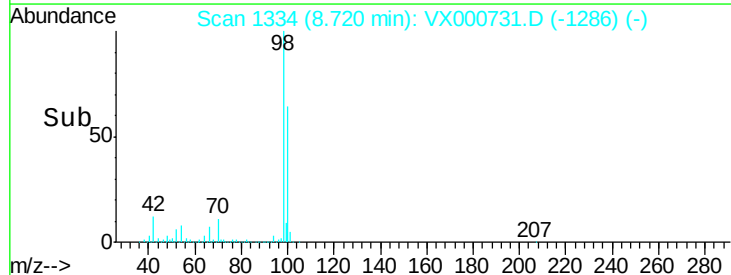
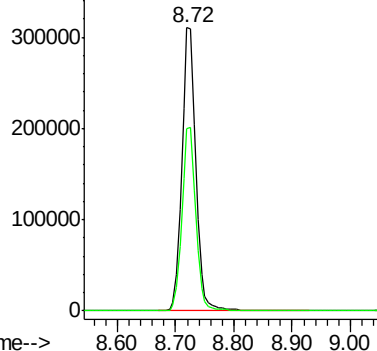


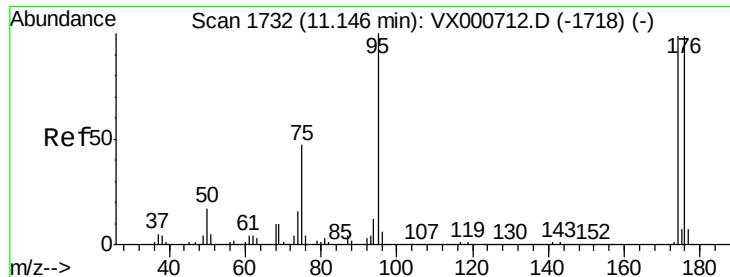
#50
Toluene-d8
Concen: 47.17 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.01 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

Tgt Ion: 98 Resp: 513528
Ion Ratio Lower Upper
98 100
100 64.6 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: 46.51 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

MW-18-040218

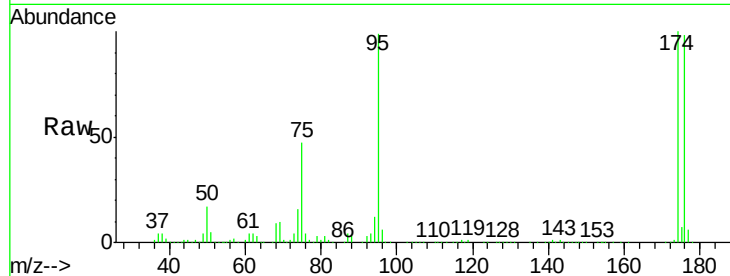
Tgt Ion: 95 Resp: 210298

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.6

176 93.2 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

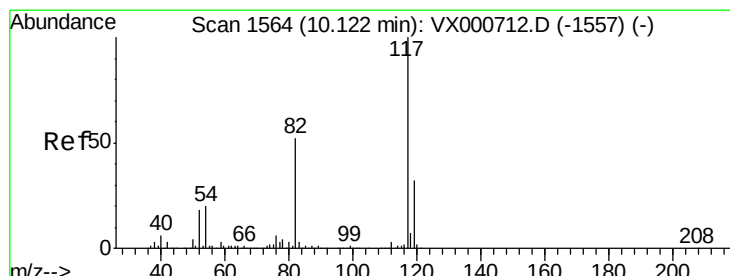
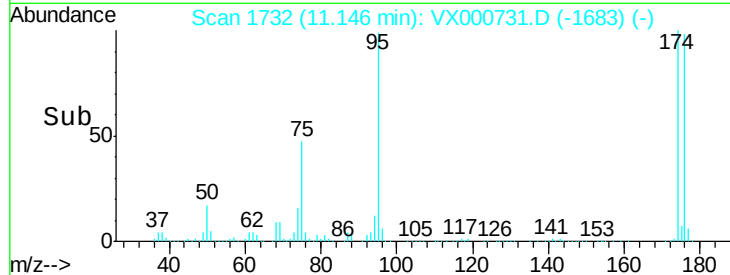
50000

0

11.15

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: VX000731.D

Acq: 08 Apr 2018 15:13

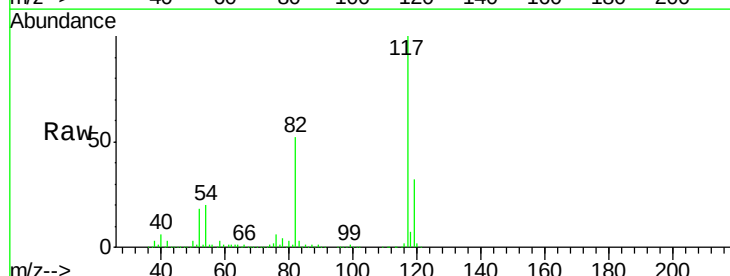
Tgt Ion: 117 Resp: 414230

Ion Ratio Lower Upper

117 100

82 52.3 41.9 62.9

119 31.9 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

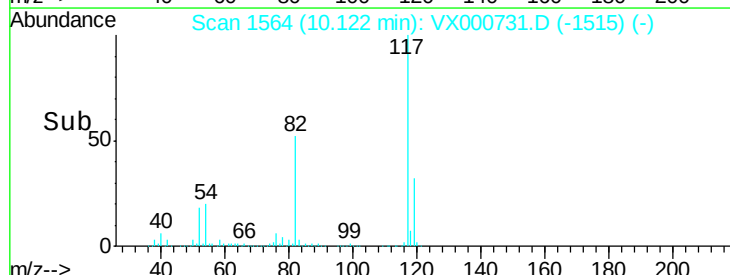
100000

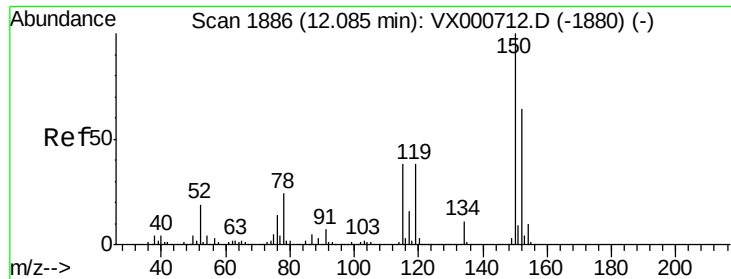
0

10.12

10.10 10.20 10.30

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

MSVOA_X

ClientSampleId :

MW-18-040218

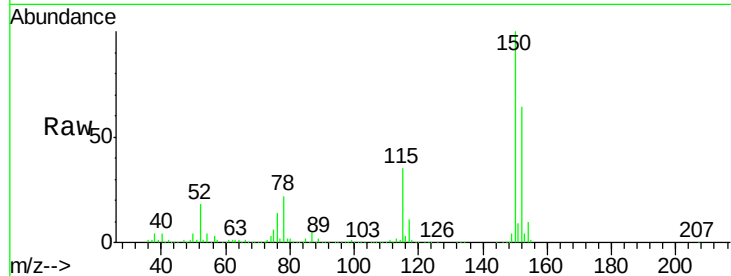
Tgt Ion:152 Resp: 243551

Ion Ratio Lower Upper

152 100

115 54.1 37.7 113.1

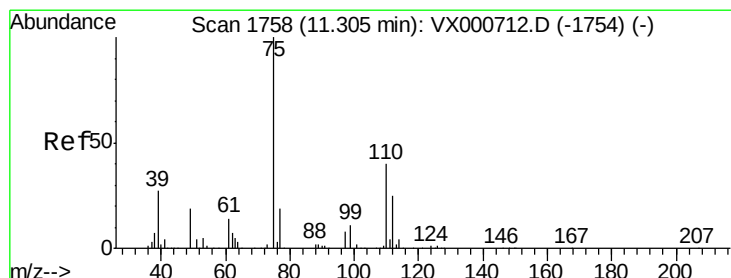
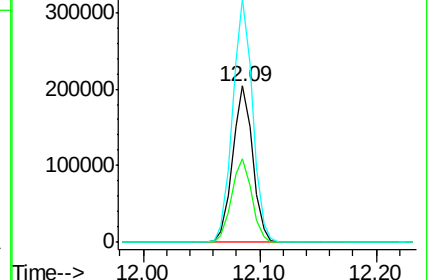
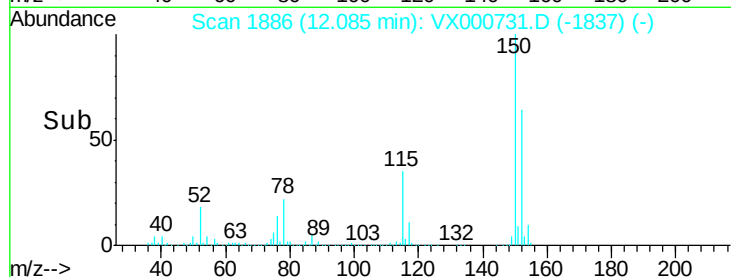
150 155.0 0.0 345.0



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: 24.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000731.D

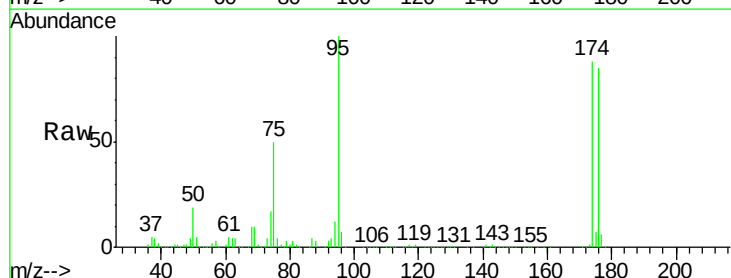
Acq: 08 Apr 2018 15:13

Tgt Ion: 75 Resp: 103383

Ion Ratio Lower Upper

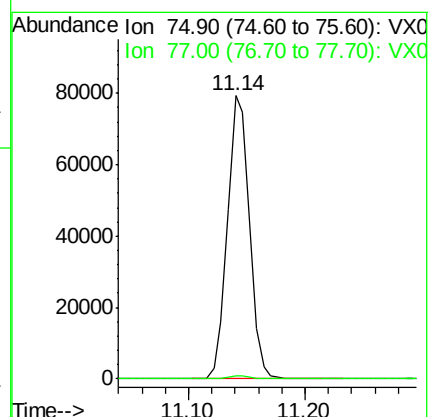
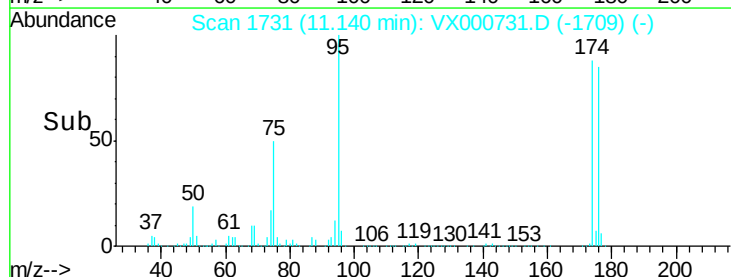
75 100

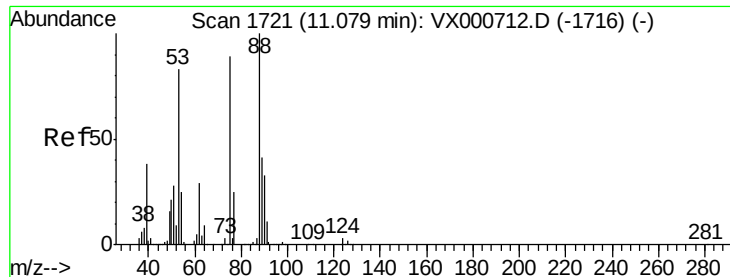
77 1.2 21.3 63.7#



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: 64.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

Instrument :

MSVOA_X

ClientSampled :

MW-18-040218

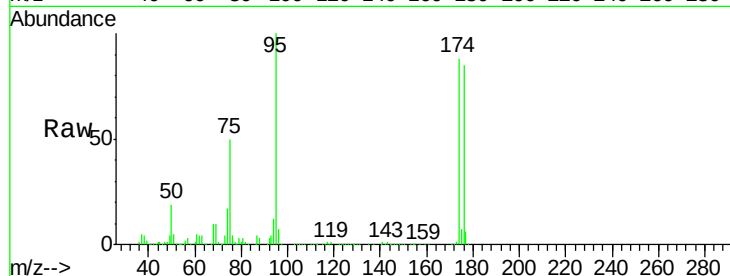
Tgt Ion: 75 Resp: 103383

Ion Ratio Lower Upper

75 100

53 0.2 74.2 111.2#

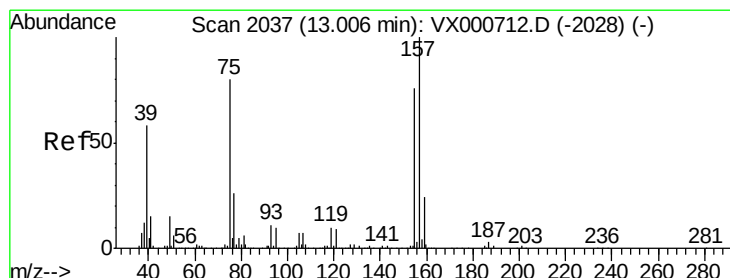
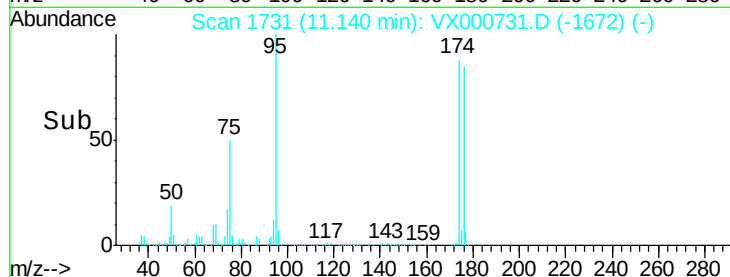
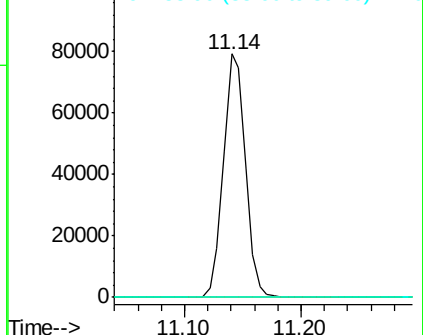
89 0.0 46.6 69.8#



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: 0.25 ug/l

RT: 12.82 min Scan# 2007

Delta R.T. -0.18 min

Lab File: VX000731.D

Acq: 08 Apr 2018 15:13

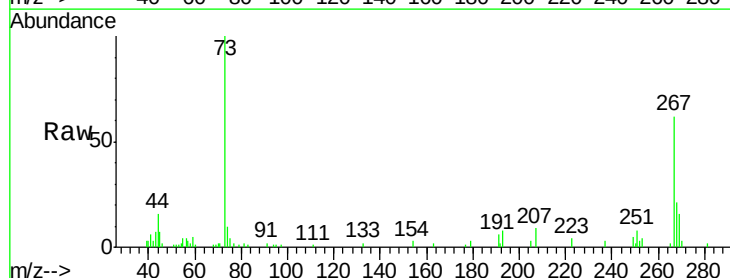
Tgt Ion: 75 Resp: 289

Ion Ratio Lower Upper

75 100

155 9.3 48.4 145.0#

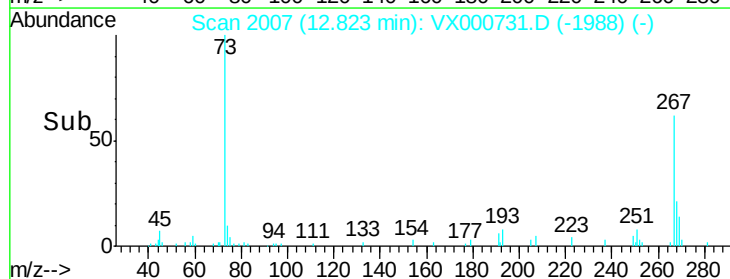
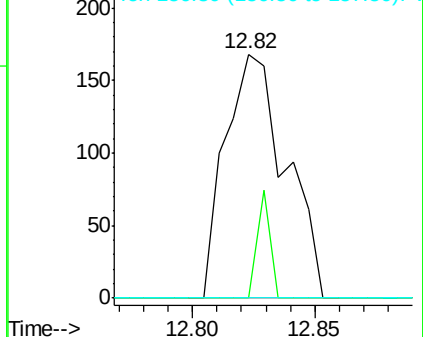
157 0.0 62.8 188.5#

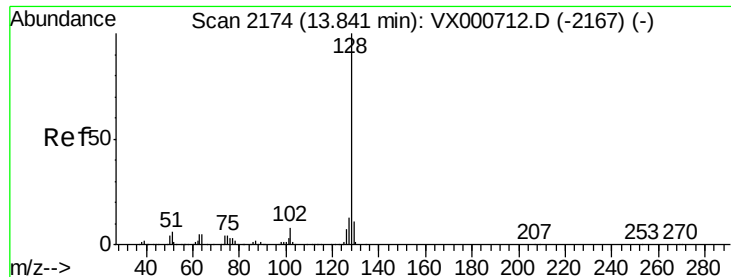


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 0.21 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX000731.D
Acq: 08 Apr 2018 15:13

Instrument :
MSVOA_X
ClientSampleId :
MW-18-040218

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	12.1	8.8	13.2

