

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097196.D
 Acq On : 29 Jul 2017 11:23
 Operator : SJ/JU
 Sample : I4421-14
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M6-WSW

Manual Integrations
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 7/31/2017 6:53:17 PM

Quant Time: Jul 31 16:38:32 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	101289	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	442951	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	143802	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	232234	20.00	ng	-0.01
75) Chrysene-d12	13.62	240	199680	20.00	ng	-0.01
86) Perylene-d12	14.97	264	136217	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	847277	126.10	ng	0.00
7) Phenol-d6	6.16	99	944581	123.14	ng	-0.01
23) Nitrobenzene-d5	7.06	82	529092	70.07	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	124619	109.68	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	731844	86.37	ng	-0.02
78) Terphenyl-d14	12.57	244	553118	56.48	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.17	94	34889	3.835	ng	96
11) bis(2-Chloroethyl)ether	6.23	93	68253	9.485	ng	94
13) 1,4-Dichlorobenzene	6.50	146	19098	2.489	ng	92
14) 1,2-Dichlorobenzene	6.66	146	21526	3.213	ng	93
31) Naphthalene	7.79	128	526595	25.220	ng	100
37) 2-Methylnaphthalene	8.49	142	315537	23.868	ng	99
45) 1,1'-Biphenyl	8.95	154	45621	3.714	ng	93
49) Dimethylphthalate	9.25	163	221753	20.307	ng	99
57) Fluorene	10.06	166	33300	4.070	ng	# 86
70) Phenanthrene	11.02	178	109498	8.800	ng	97
71) Anthracene	11.07	178	30305	2.378	ng	97
74) Fluoranthene	12.20	202	205082	16.824	ng	99
77) Pvrene	12.42	202	206443	12.629	ng	99
80) Benzo(a)anthracene	13.60	228	90552	7.009	ng	99
82) Chrysene	13.64	228	85786	6.800	ng	97
85) Indeno(1,2,3-cd)pyrene	16.19	276	36553	3.379	ng	100
87) Benzo(b)fluoranthene	14.61	252	95852m	11.706	ng	
88) Benzo(k)fluoranthene	14.63	252	29575m	3.790	ng	
89) Benzo(a)pvrene	14.92	252	63373	8.456	ng	# 95
91) Benzo(a,h,i)perylene	16.55	276	39694	6.159	ng	95

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

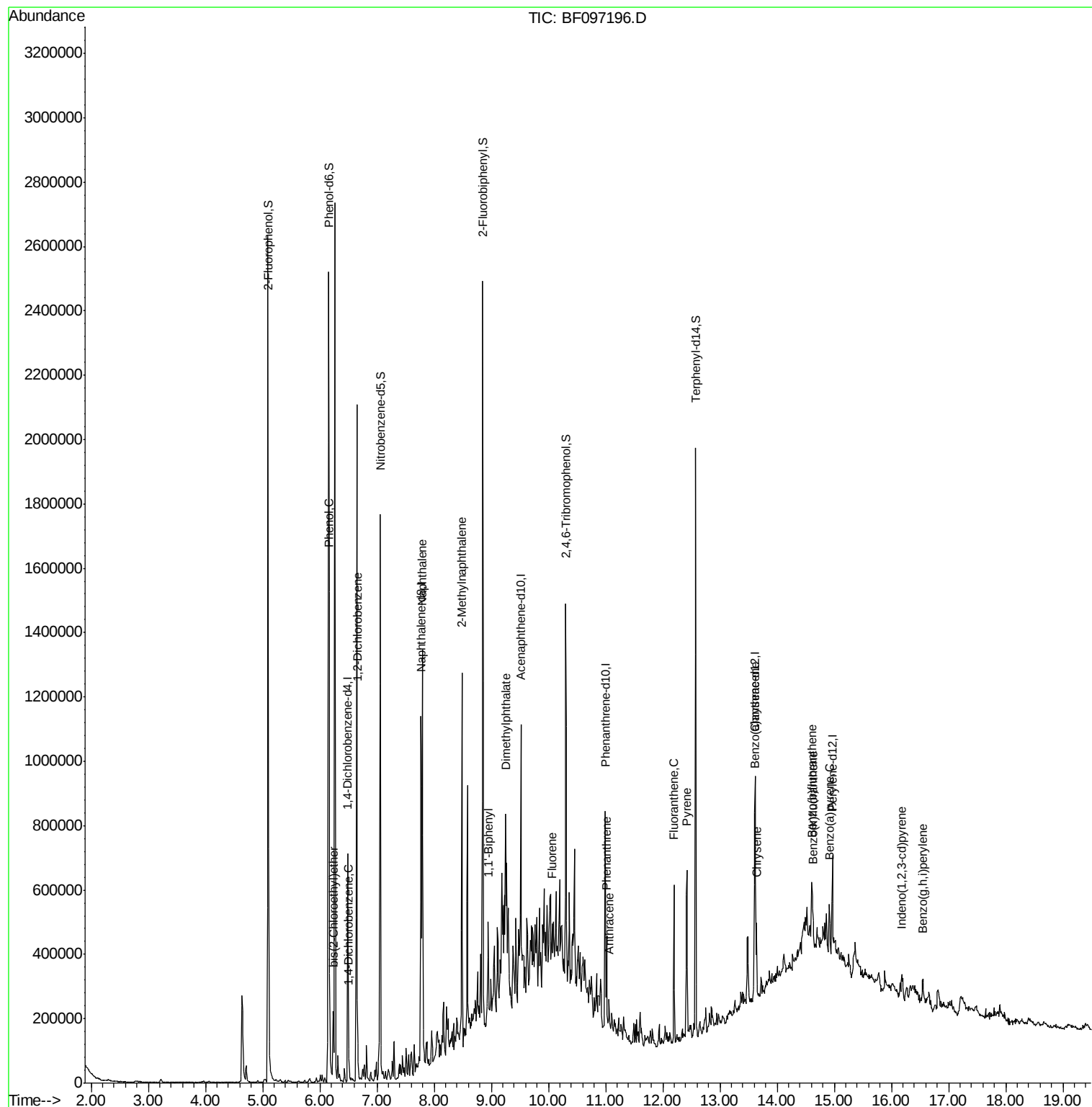
Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
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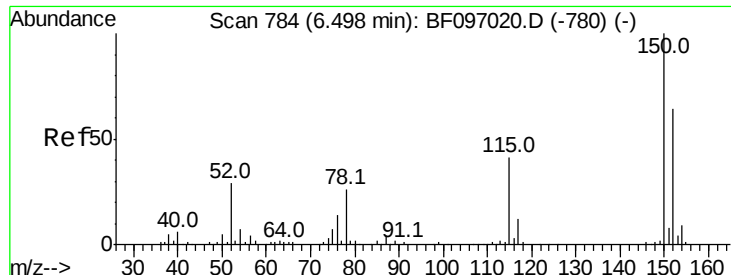
Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

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#1

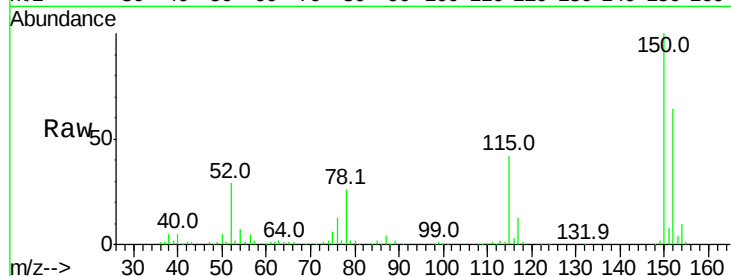
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.2	189.2
115	64.8	52.2	78.2

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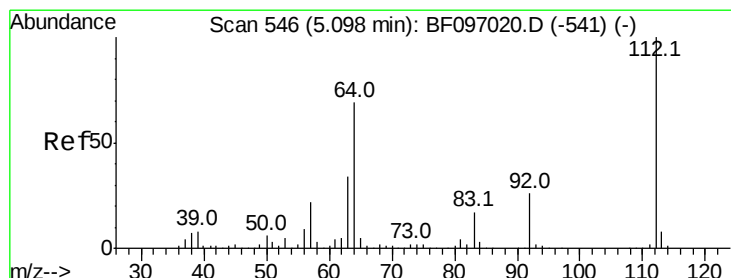
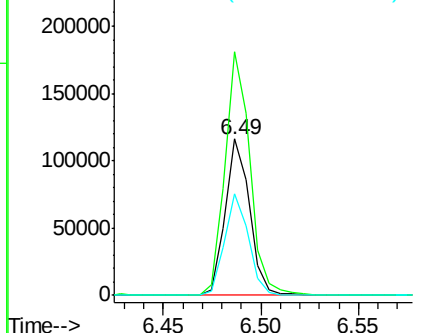
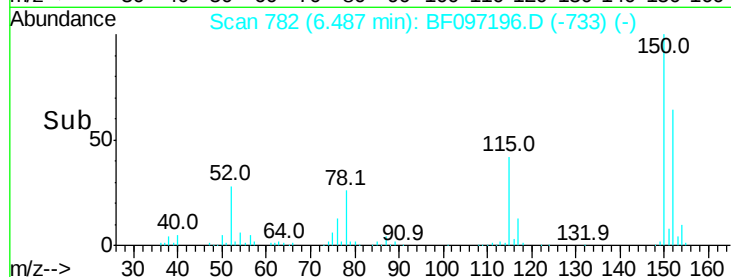


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

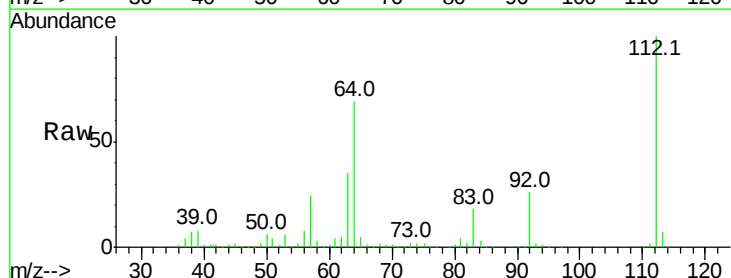
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 126.101 ng
RT: 5.09 min Scan# 545
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.1	46.0	69.0#
63	35.4	23.4	35.0#

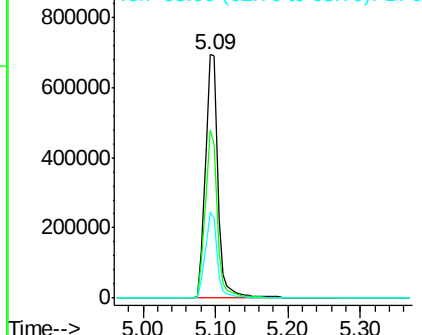
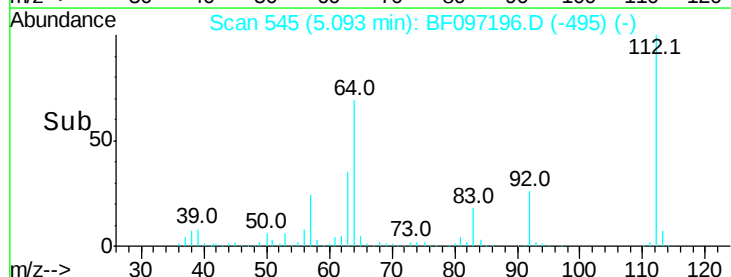


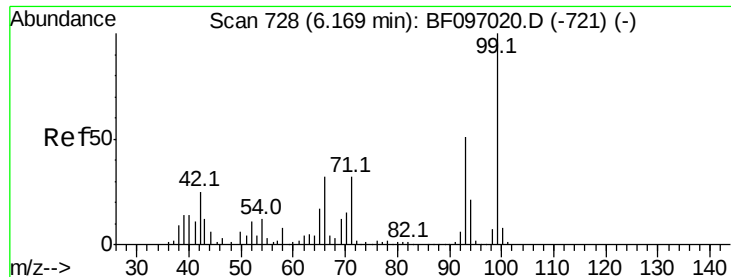
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.143 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

ClientSampled :

E2-M6-WSW

Tot Ion: 99 Resp: 944581

Ion Ratio Lower Upper

99 100

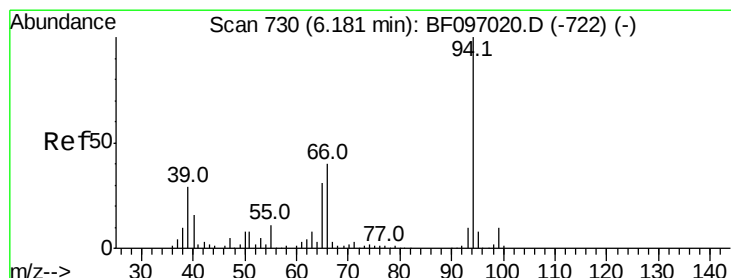
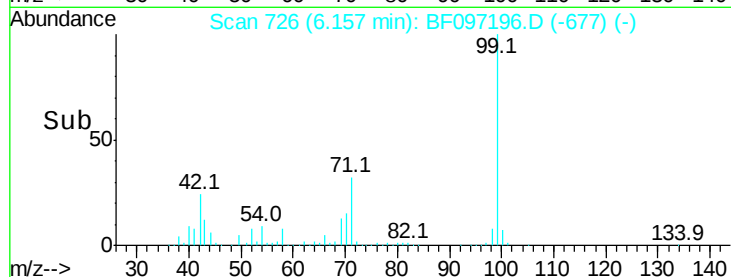
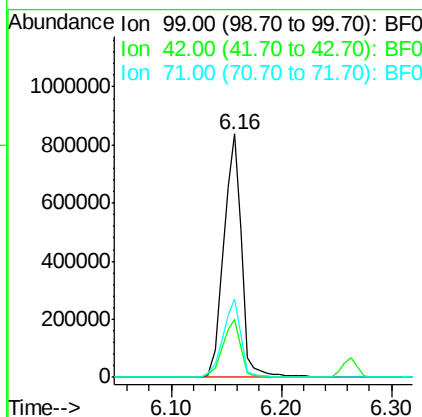
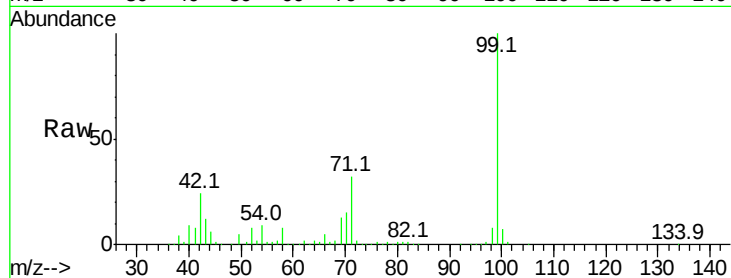
42 23.8 13.5 20.3#

71 32.4 24.5 36.7

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#10

Phenol

Concen: 3.835 ng

RT: 6.17 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

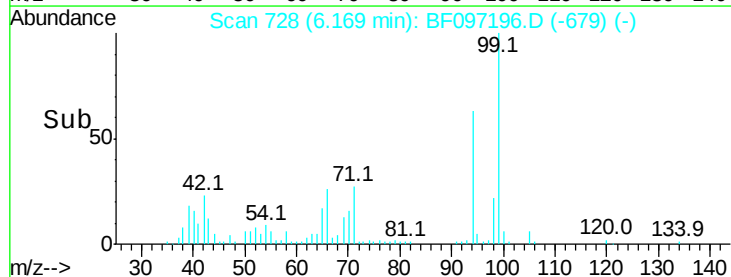
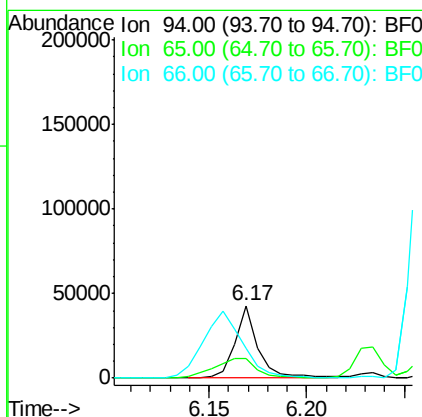
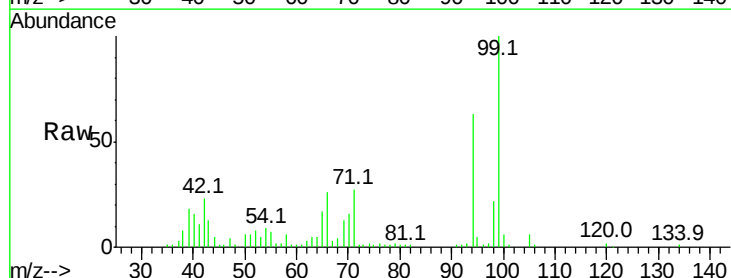
Tgt Ion: 94 Resp: 34889

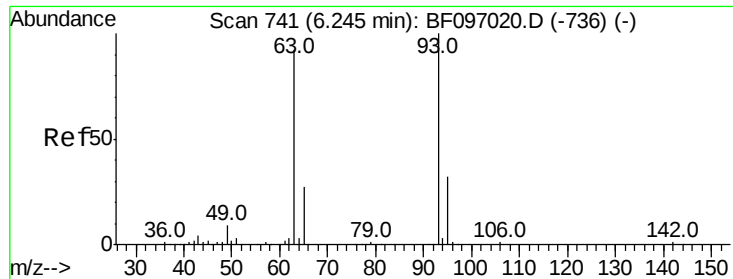
Ion Ratio Lower Upper

94 100

65 27.1 9.9 49.9

66 41.3 23.1 63.1





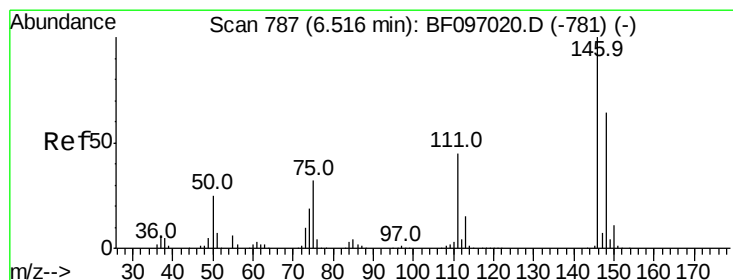
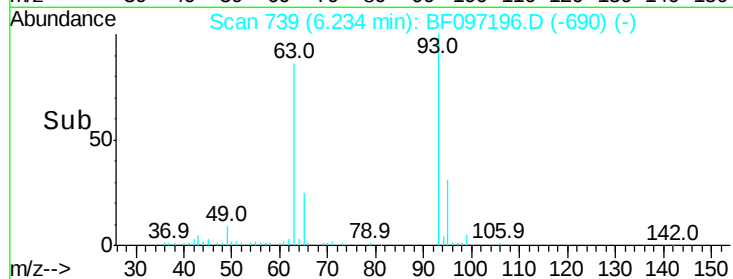
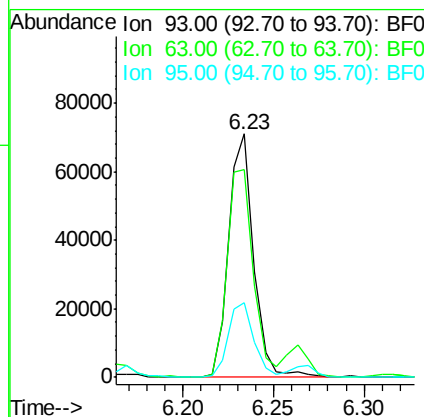
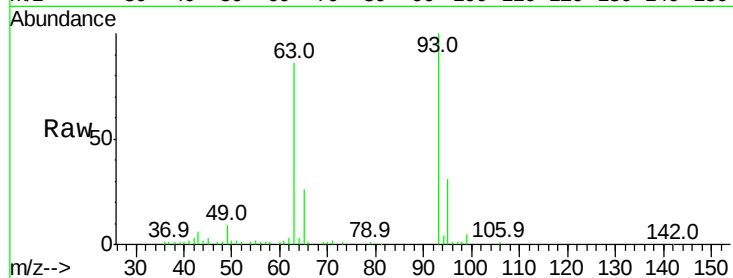
#11
bis(2-Chloroethyl)ether
Concen: 9.485 ng
RT: 6.23 min Scan# 739
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

Tot Ion	Ratio	Lower	Upper
93	100		
63	85.5	59.2	99.2
95	30.9	12.8	52.8

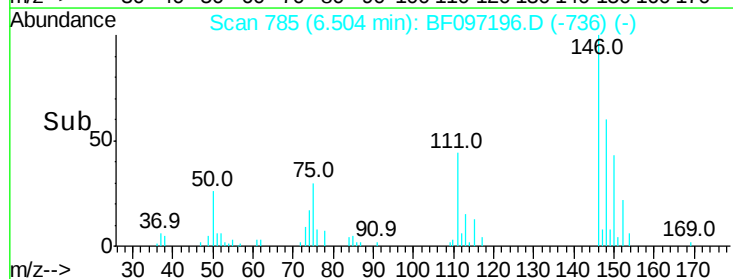
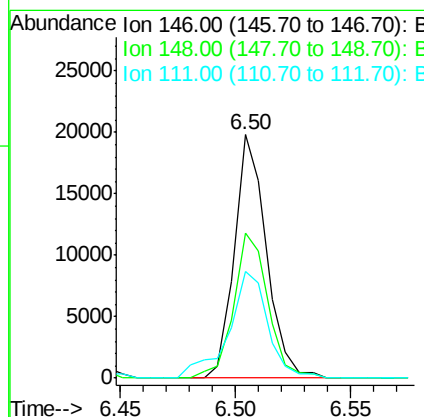
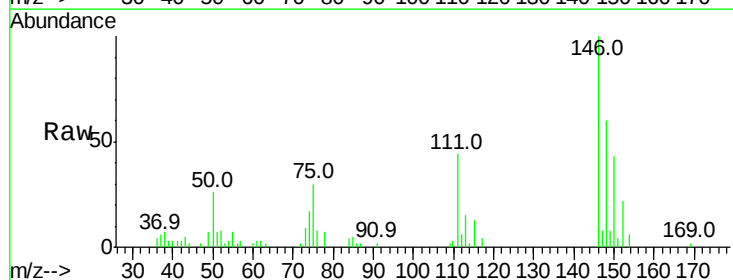
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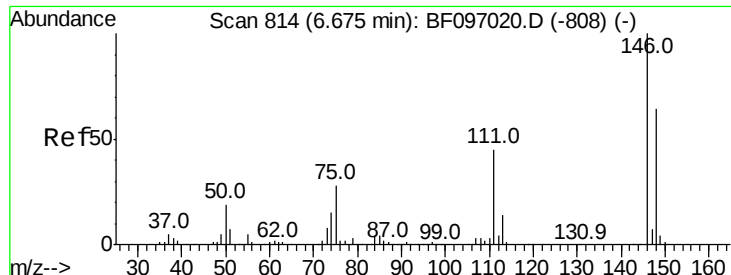
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#13
1,4-Dichlorobenzene
Concen: 2.489 ng
RT: 6.50 min Scan# 785
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
146	100		
148	59.6	52.2	78.2
111	44.1	30.3	45.5





#14

1,2-Dichlorobenzene

Concen: 3.213 ng

RT: 6.66 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

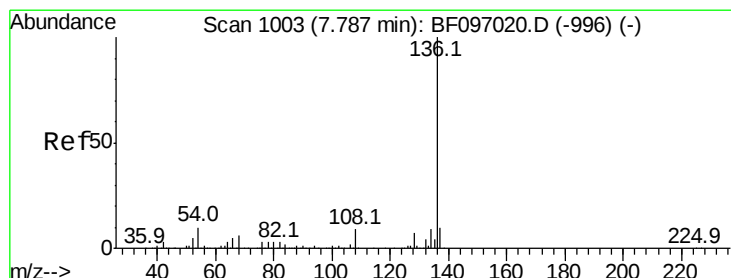
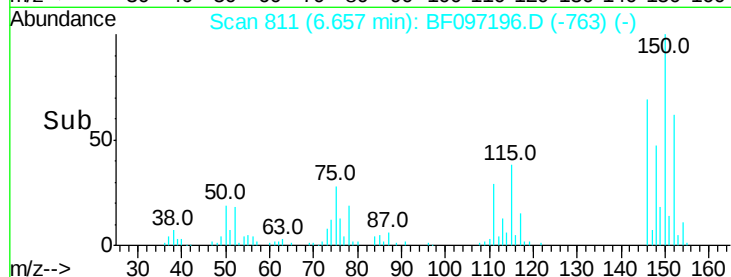
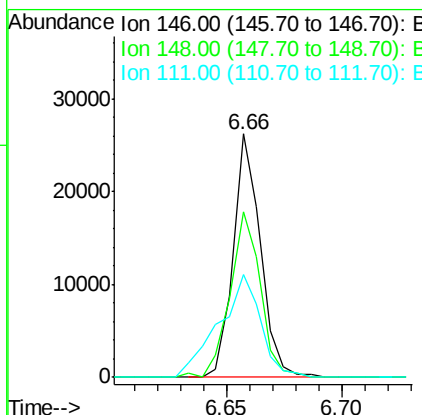
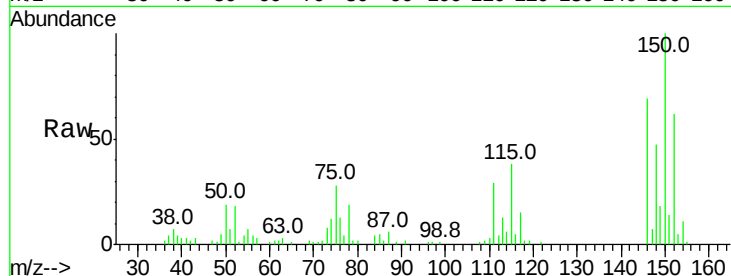
ClientSampleId :

E2-M6-WSW

Tot Ion:	146	Resp:	21526
Ion Ratio	Lower	Upper	
146	100		
148	67.9	50.4	75.6
111	42.4	38.2	57.4

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#21

Naphthalene-d8

Concen: 20.000 ng

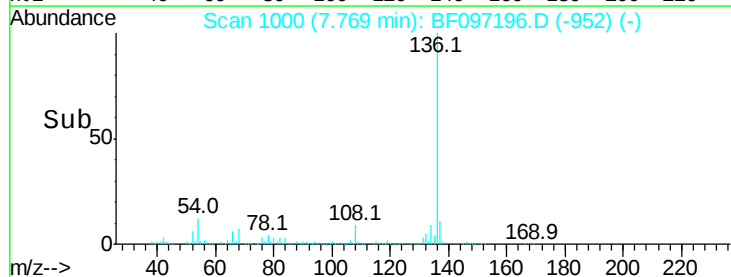
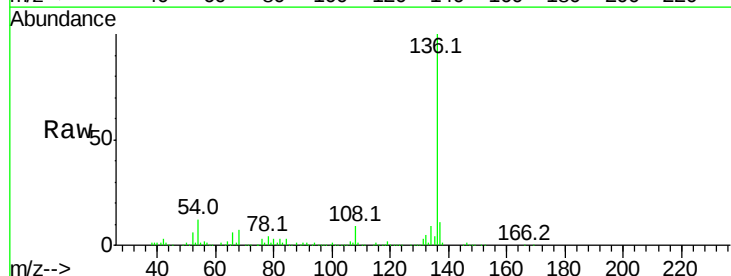
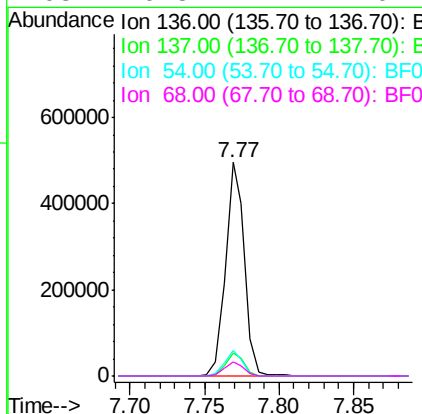
RT: 7.77 min Scan# 1000

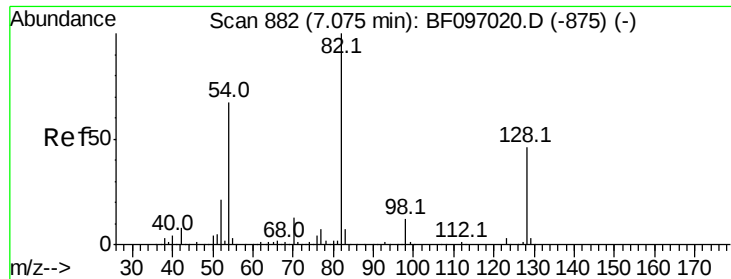
Delta R.T. -0.02 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Tgt Ion:	136	Resp:	442951
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	11.7	4.9	7.3#
68	6.8	4.1	6.1#





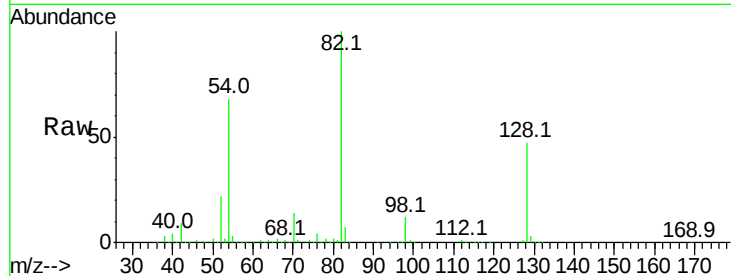
#23
Nitrobenzene-d5
Concen: 70.072 ng
RT: 7.06 min Scan# 879
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

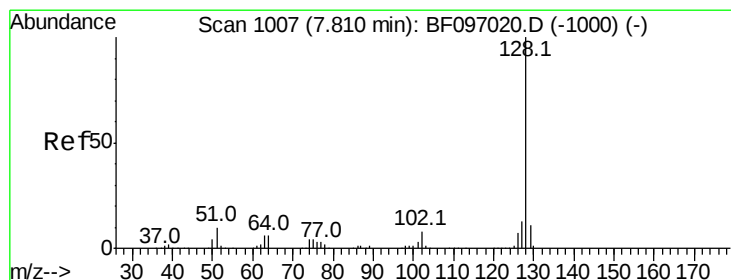
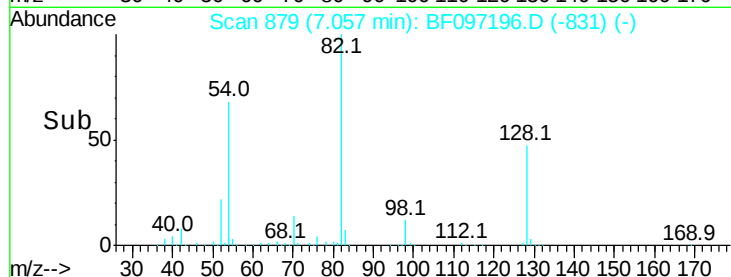
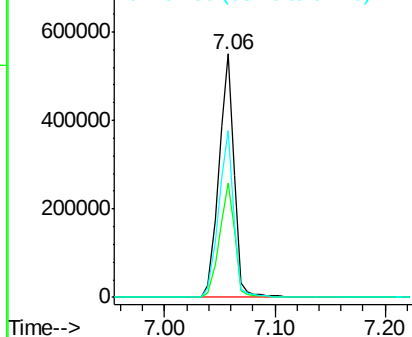
Tot Ion	Ratio	Lower	Upper
82	100		
128	46.7	34.0	51.0
54	68.3	42.2	63.2

Manual Integrations
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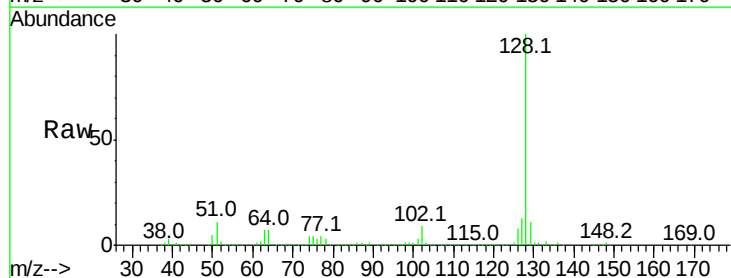


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

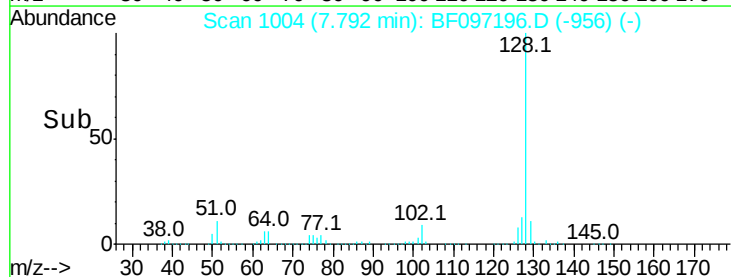
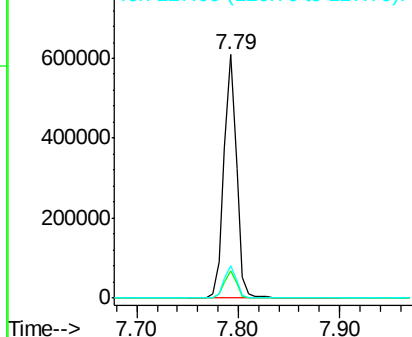


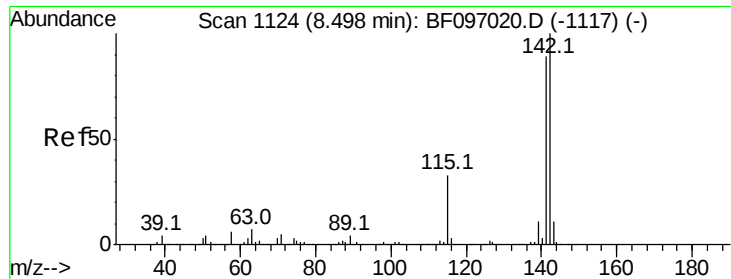
#31
Naphthalene
Concen: 25.220 ng
RT: 7.79 min Scan# 1004
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.2	10.8	16.2



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





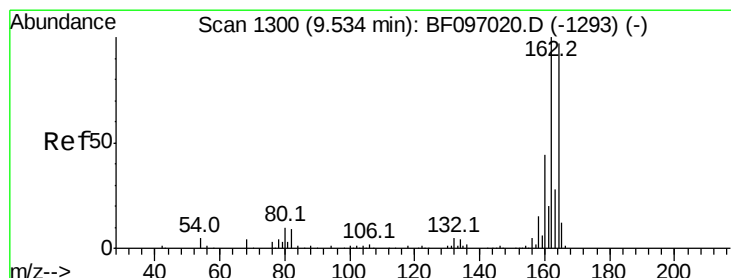
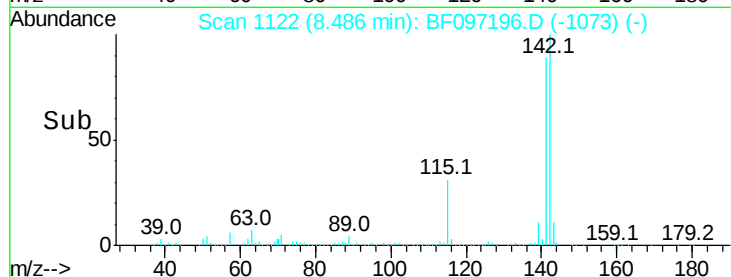
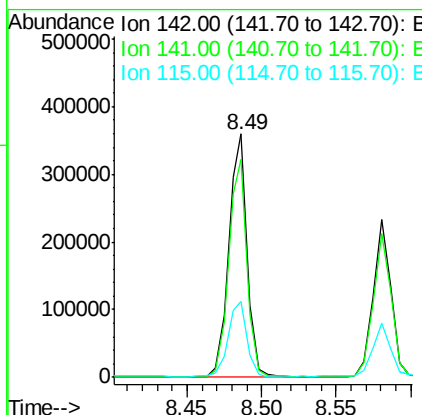
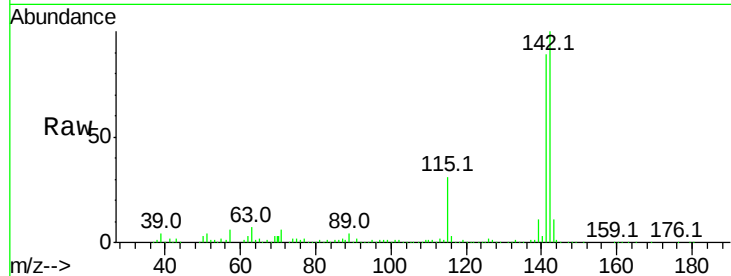
#37
 2-Methylnaphthalene
 Concen: 23.868 ng
 RT: 8.49 min Scan# 1122
 Delta R.T. -0.01 min
 Lab File: BF097196.D
 Acq: 29 Jul 2017 11:23

Instrument :
 BNA_F
 ClientSampled :
 E2-M6-WSW

Tot Ion:	142	Resp:	315537
Ion Ratio	Lower	Upper	
142	100		
141	89.3	71.3	106.9
115	31.3	27.1	40.7

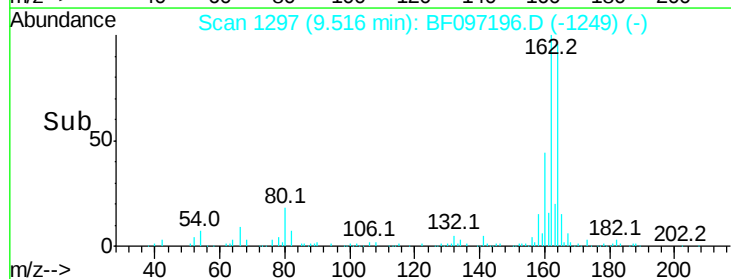
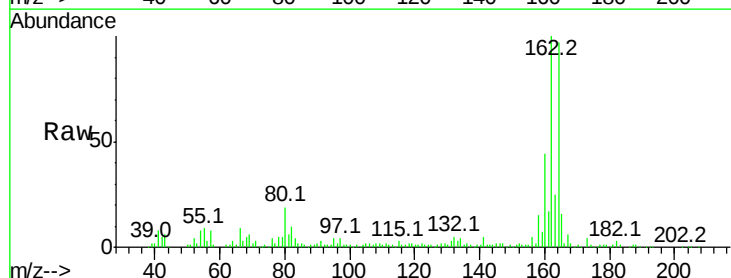
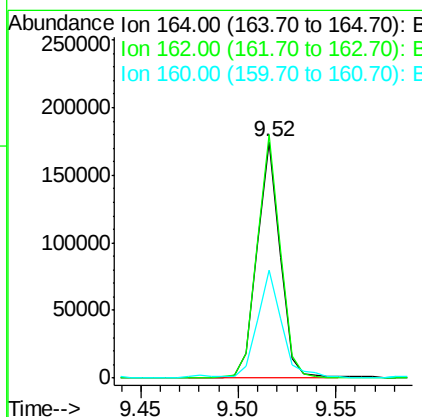
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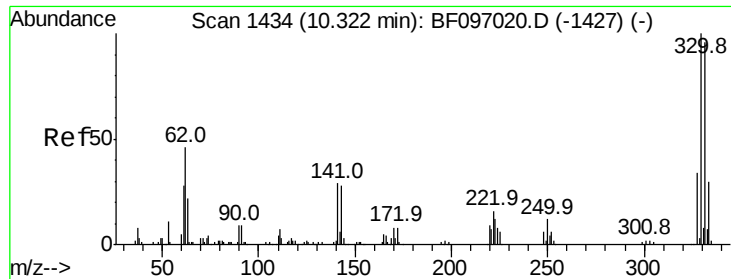
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.52 min Scan# 1297
 Delta R.T. -0.02 min
 Lab File: BF097196.D
 Acq: 29 Jul 2017 11:23

Tgt Ion:	164	Resp:	143802
Ion Ratio	Lower	Upper	
164	100		
162	103.0	82.6	123.8
160	45.4	36.2	54.2





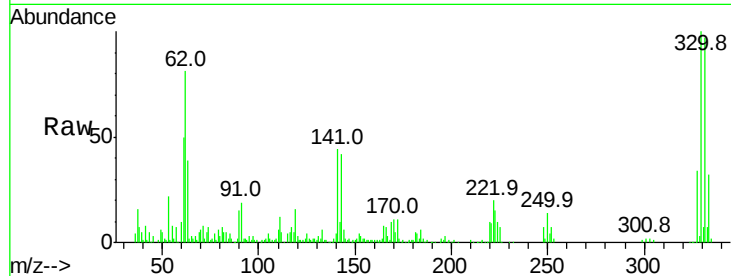
#41
 2,4,6-Tribromophenol
 Concen: 109.683 ng
 RT: 10.30 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF097196.D
 Acq: 29 Jul 2017 11:23

Instrument :
 BNA_F
 ClientSampleId :
 E2-M6-WSW

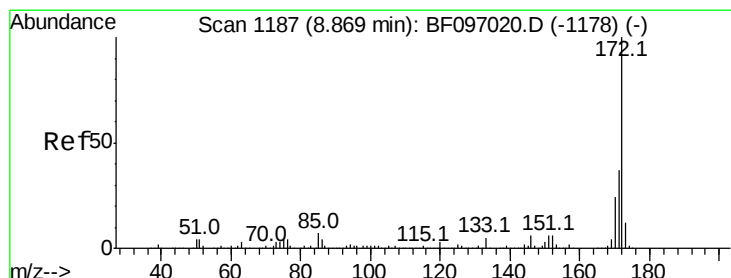
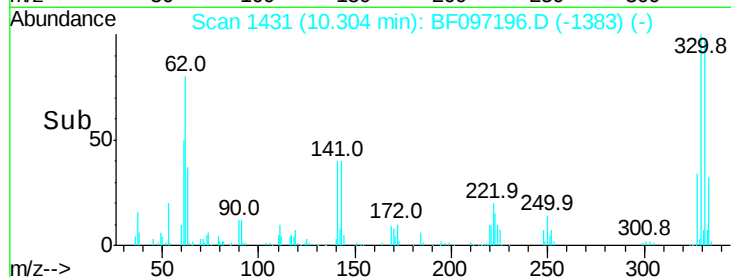
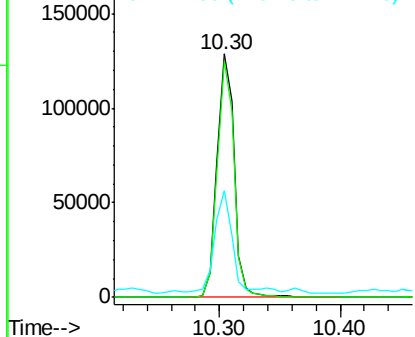
Tot Ion	Ratio	Resp	Lower	Upper
330	100	124619		
332	95.2	76.6	115.0	
141	43.2	31.4	47.2	

Manual Integrations
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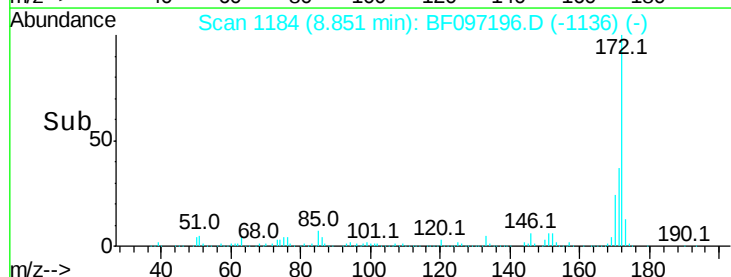
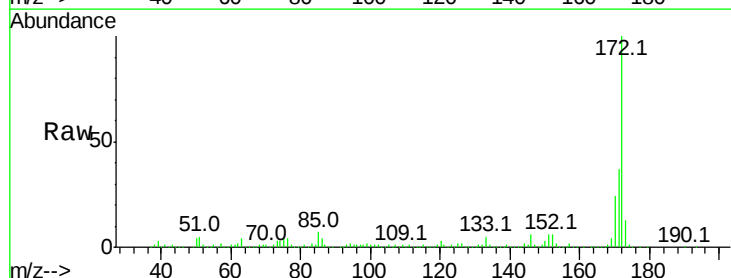
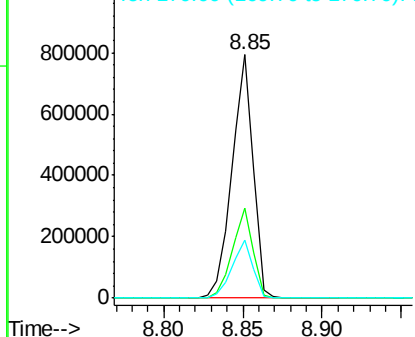
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

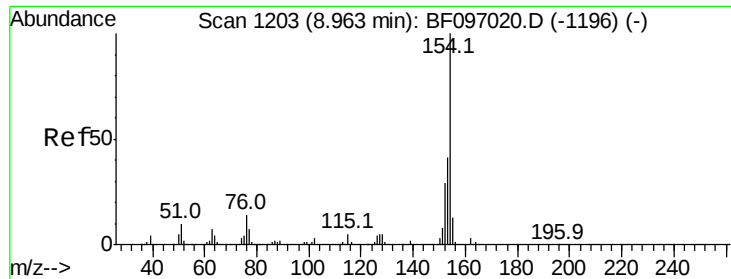


#44
 2-Fluorobiphenyl
 Concen: 86.369 ng
 RT: 8.85 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: BF097196.D
 Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	731844		
171	36.8	29.6	44.4	
170	23.9	19.8	29.8	

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





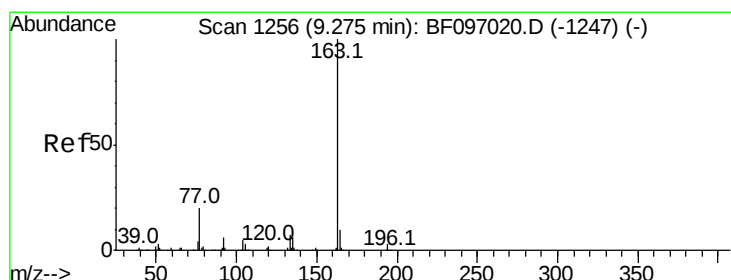
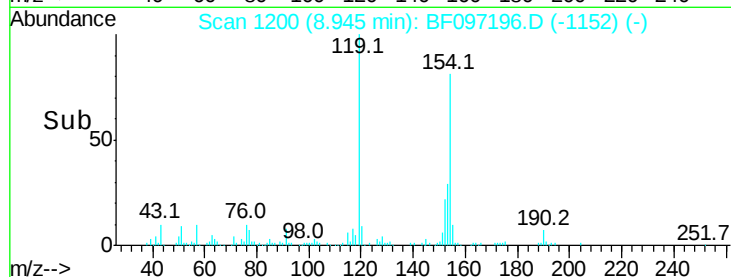
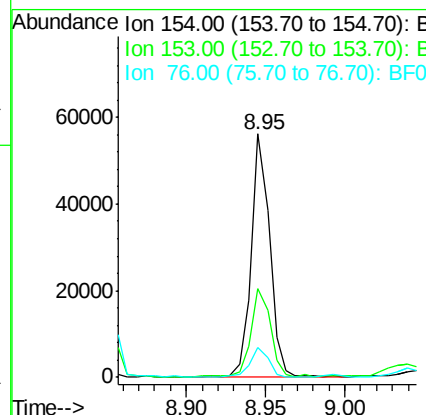
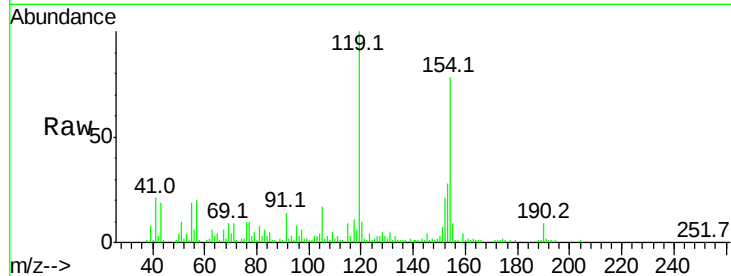
#45
1,1'-Biphenyl
Concen: 3.714 ng
RT: 8.95 min Scan# 1200
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

Tot Ion	Ratio	Lower	Upper
154	100		
153	36.4	21.2	61.2
76	12.2	0.0	29.9

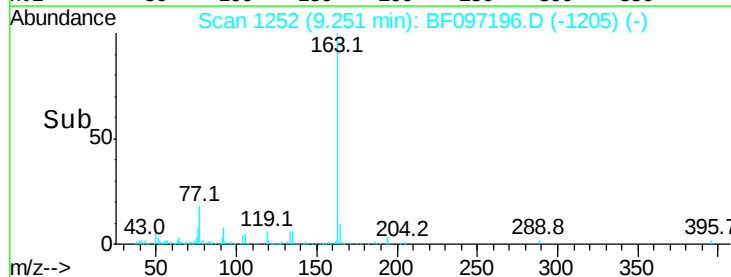
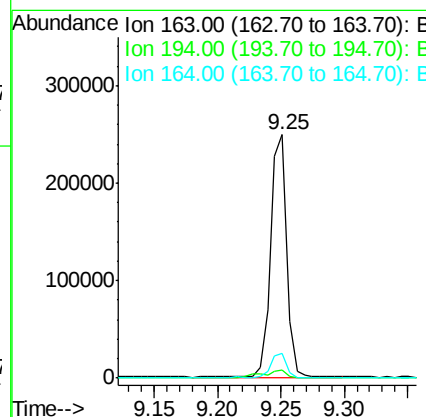
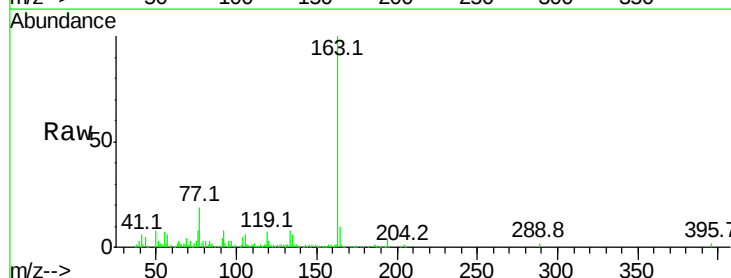
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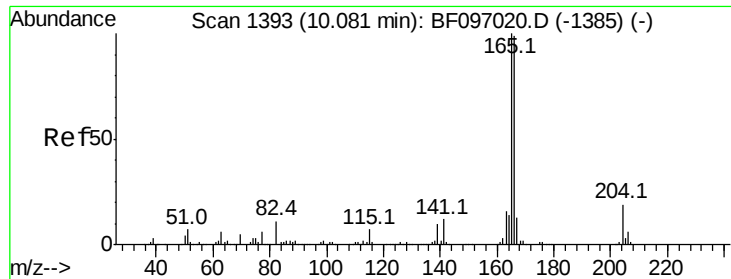
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#49
Dimethylphthalate
Concen: 20.307 ng
RT: 9.25 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.6	4.0
164	10.2	8.4	12.6





#57

Fluorene

Concen: 4.070 ng

RT: 10.06 min Scan# 1390

Delta R.T. -0.02 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

ClientSampled :

E2-M6-WSW

Tot Ion:166 Resp: 33300

Ion Ratio Lower Upper

166 100

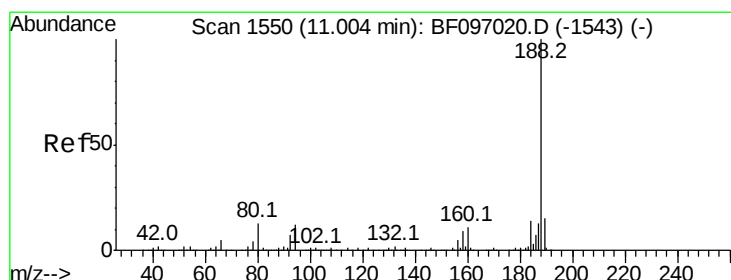
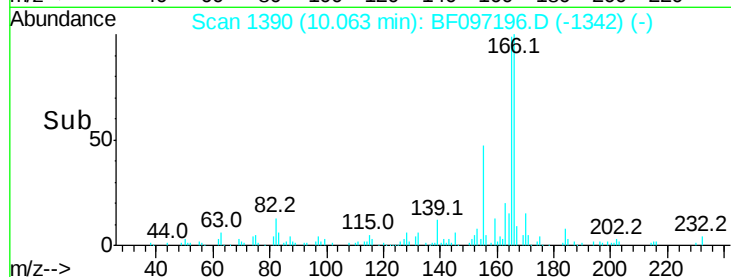
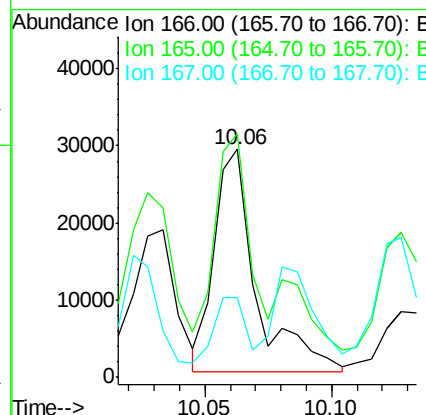
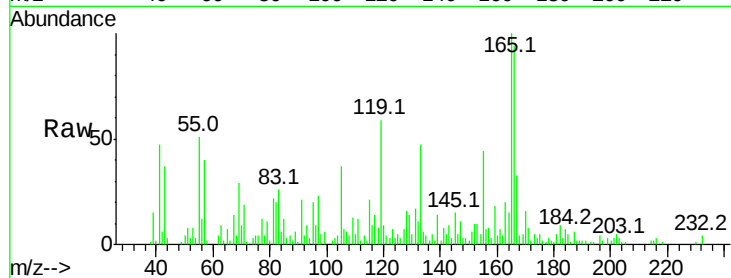
165 106.8 78.8 118.2

167 34.8 10.6 16.0#

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#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 10.99 min Scan# 1548

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

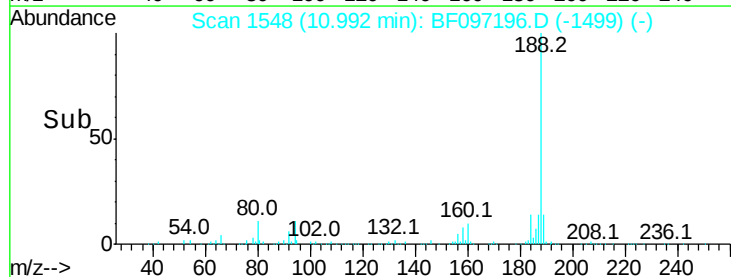
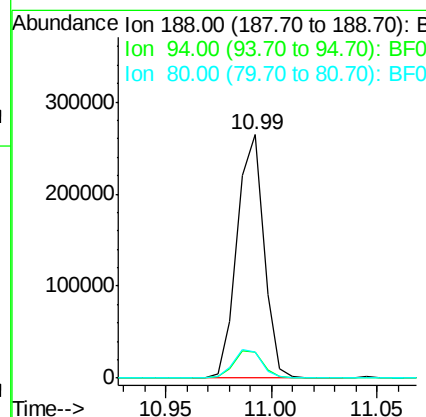
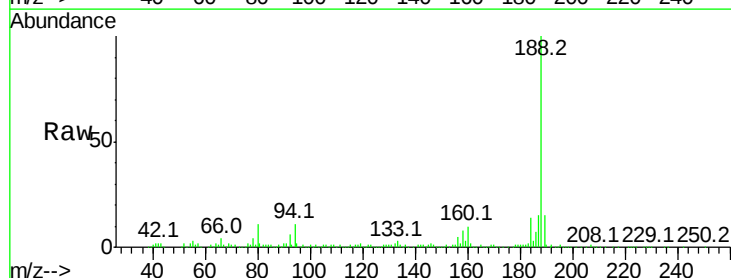
Tgt Ion:188 Resp: 232234

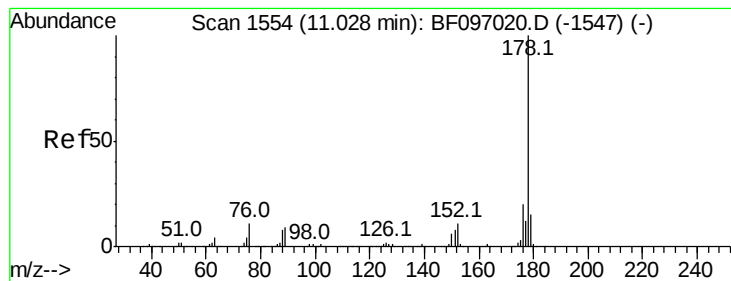
Ion Ratio Lower Upper

188 100

94 10.8 9.4 14.2

80 10.7 10.2 15.2





#70

Phenanthrene

Concen: 8.800 ng

RT: 11.02 min Scan# 1552

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

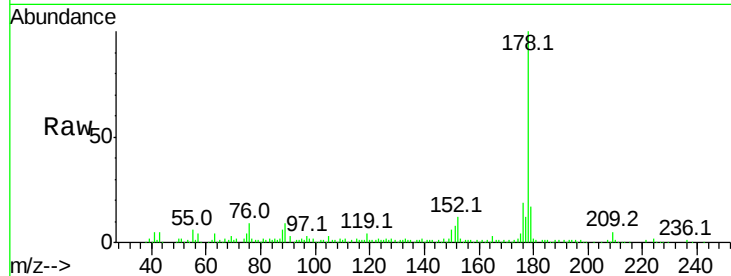
ClientSampleId :

E2-M6-WSW

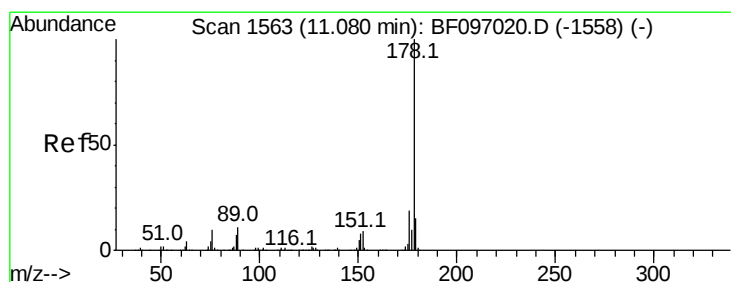
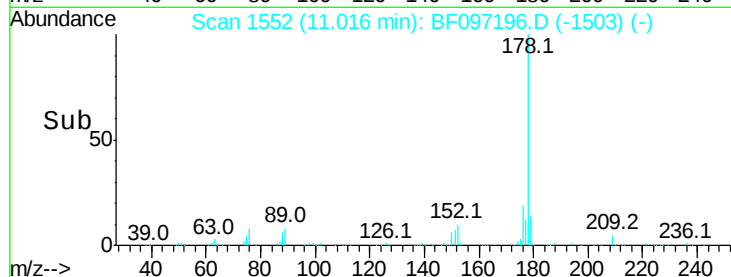
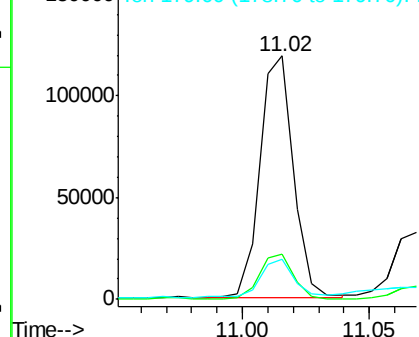
Tot Ion:178	Resp:	109498
Ion Ratio	Lower	Upper
178	100	
176	18.7	16.2 24.4
179	16.7	12.6 19.0

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.378 ng

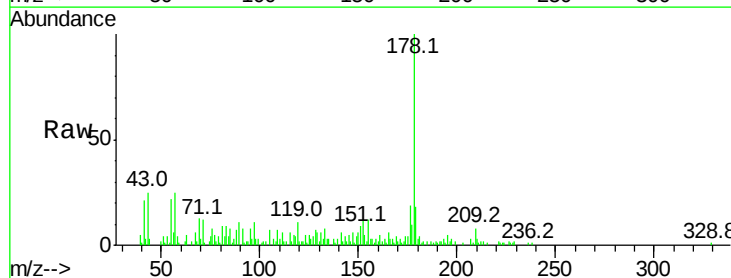
RT: 11.07 min Scan# 1561

Delta R.T. -0.01 min

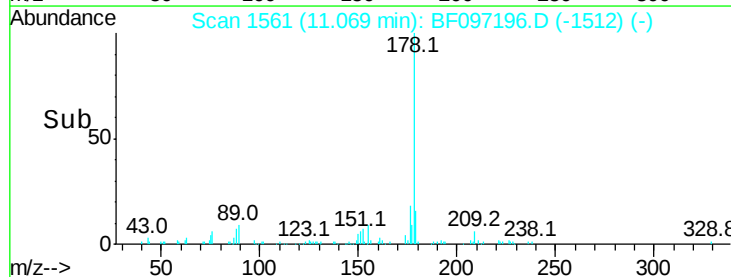
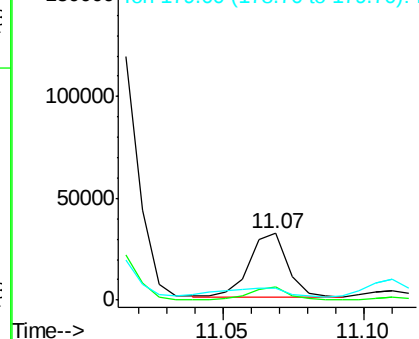
Lab File: BF097196.D

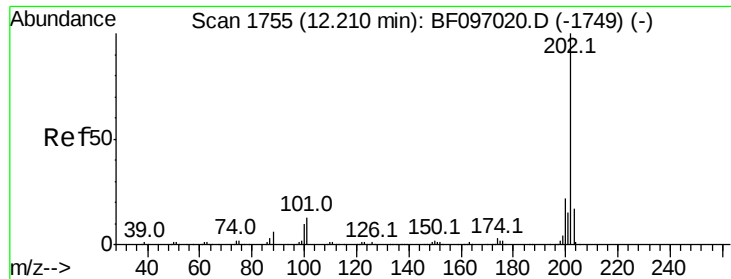
Acq: 29 Jul 2017 11:23

Tgt Ion:178	Resp:	30305
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.8 23.8
179	17.9	12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 16.824 ng

RT: 12.20 min Scan# 1753

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

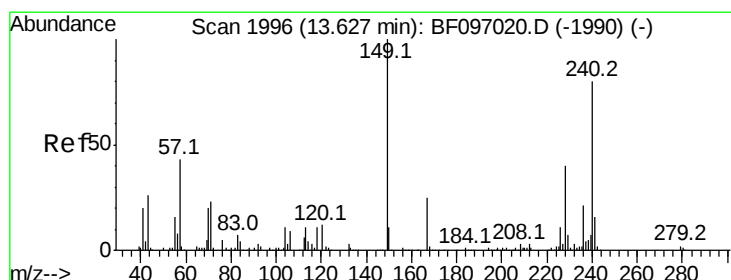
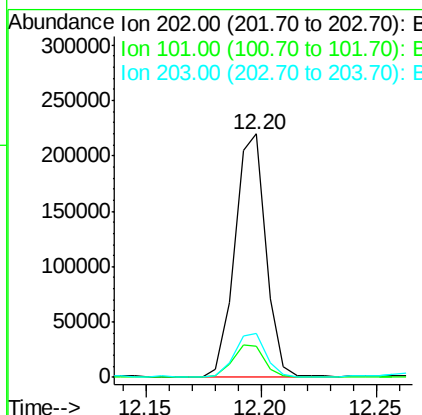
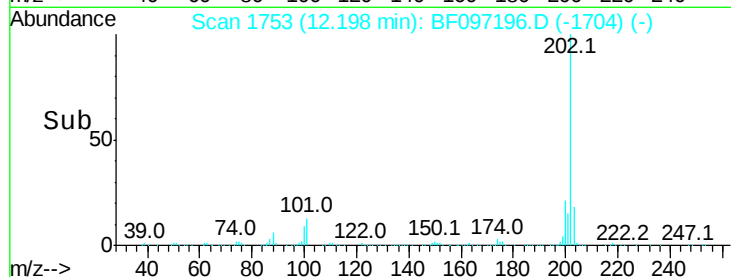
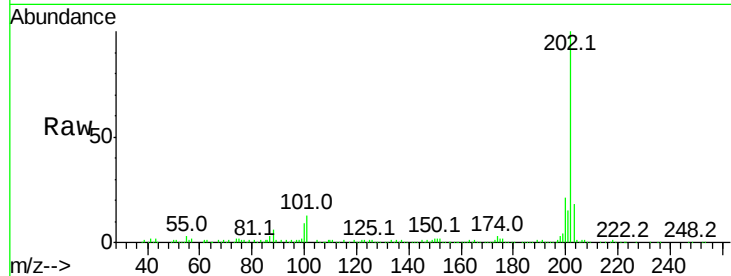
ClientSampleId :

E2-M6-WSW

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.0	0.0	33.2
203	17.9	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

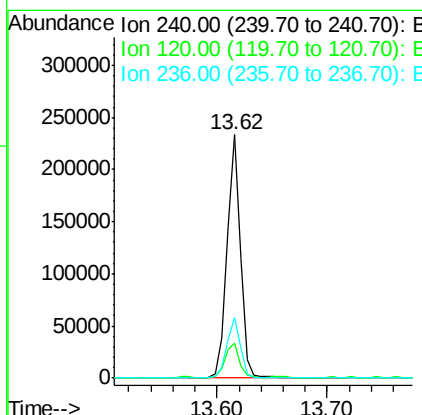
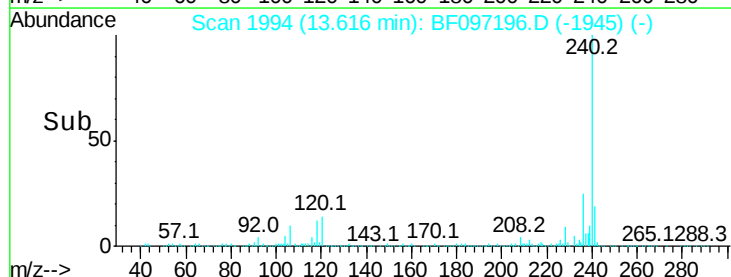
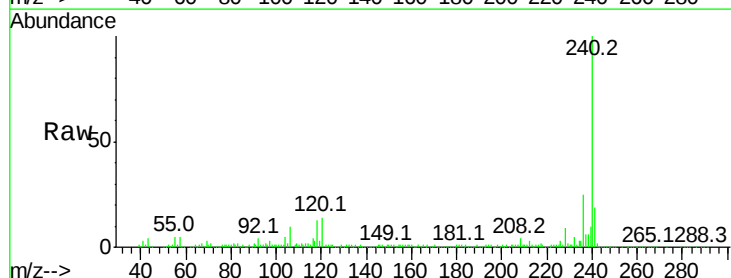
RT: 13.62 min Scan# 1994

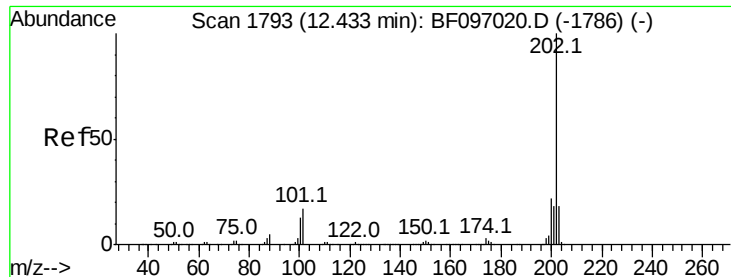
Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.4	5.8	8.8#
236	25.0	20.5	30.7





#77

Pvrene

Concen: 12.629 ng

RT: 12.42 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

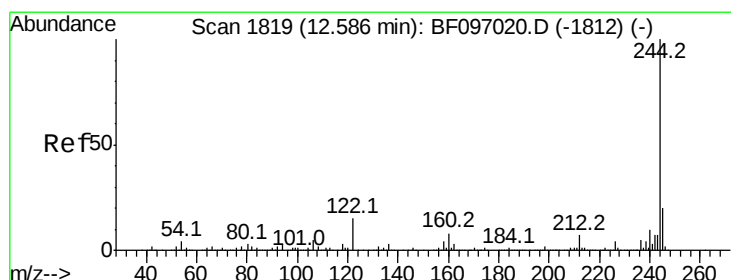
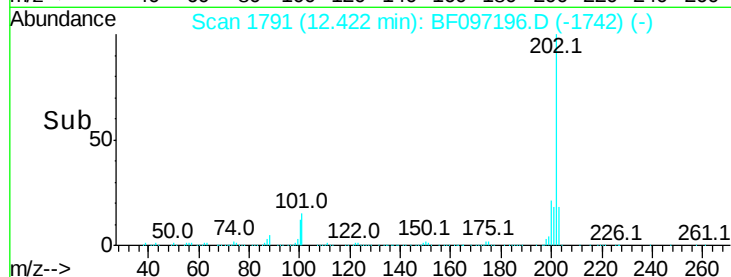
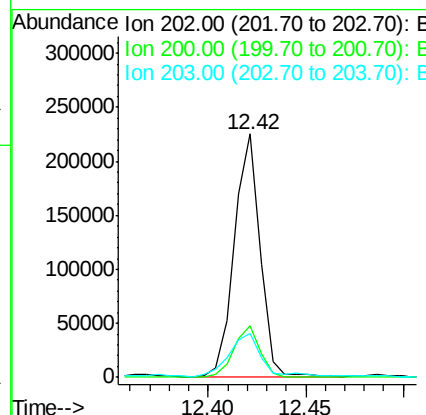
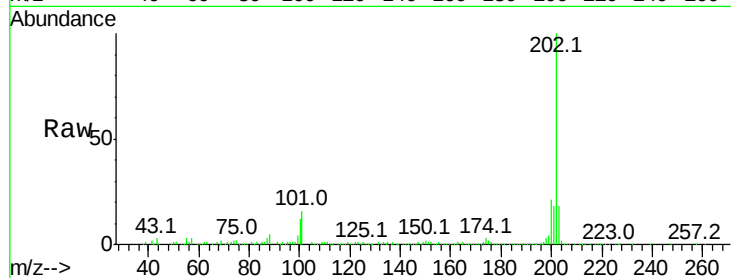
ClientSampleId :

E2-M6-WSW

Tot Ion:	202	Resp:	206443
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.6	26.4
203	18.3	14.4	21.6

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#78

Terphenyl-d14

Concen: 56.477 ng

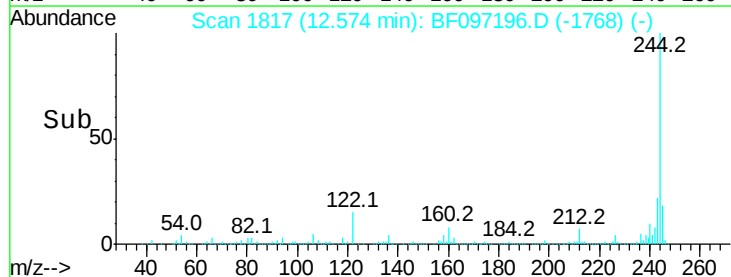
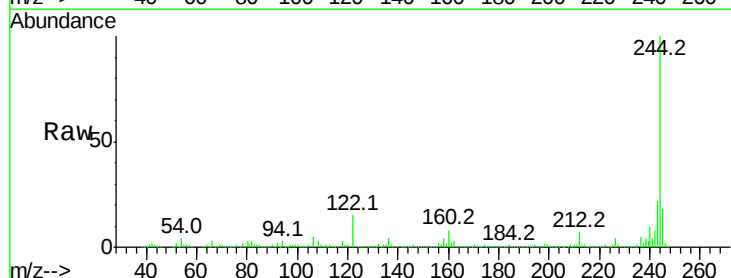
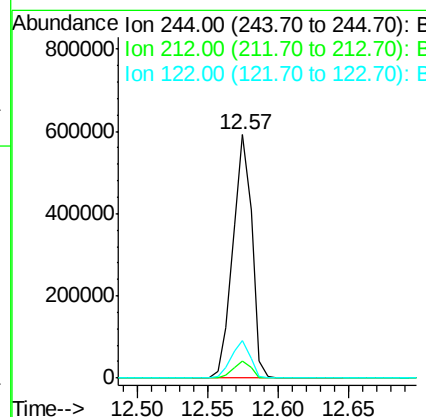
RT: 12.57 min Scan# 1817

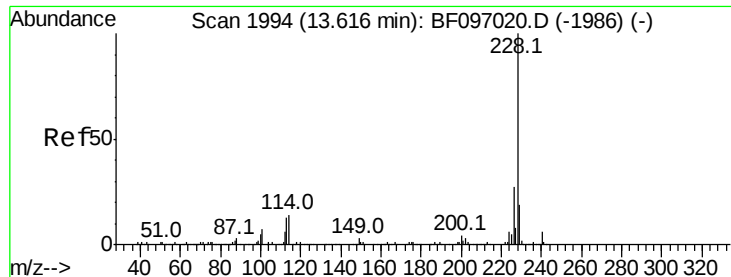
Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Tgt Ion:	244	Resp:	553118
Ion Ratio	Lower	Upper	
244	100		
212	6.9	6.0	9.0
122	15.4	10.3	15.5





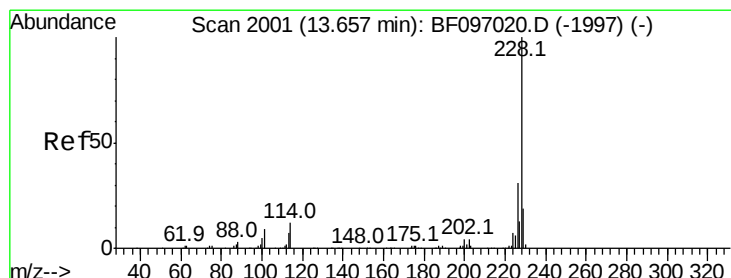
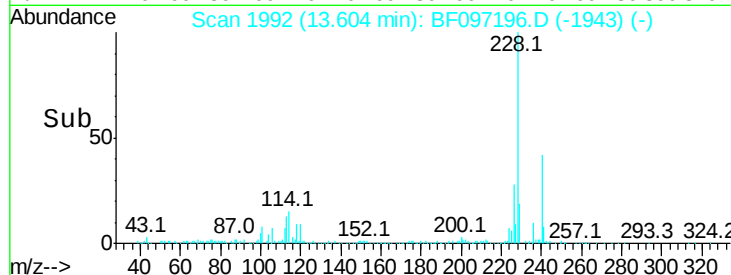
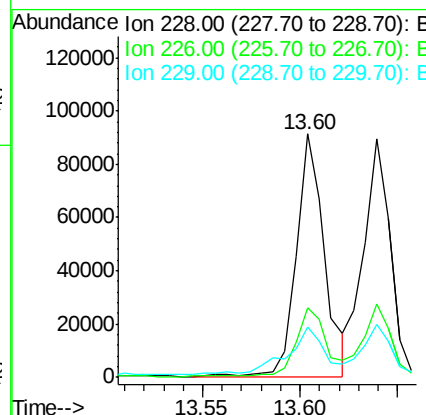
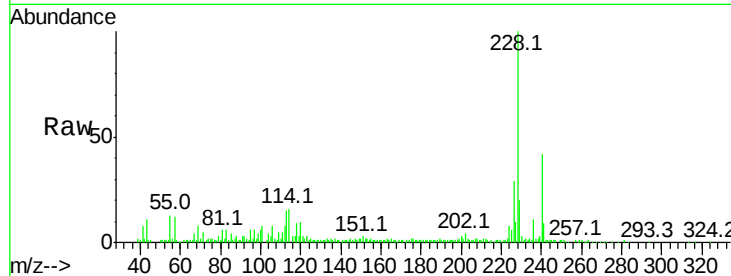
#80
Benzo(a)anthracene
Concen: 7.009 ng
RT: 13.60 min Scan# 1992
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	20.4	16.3	24.5

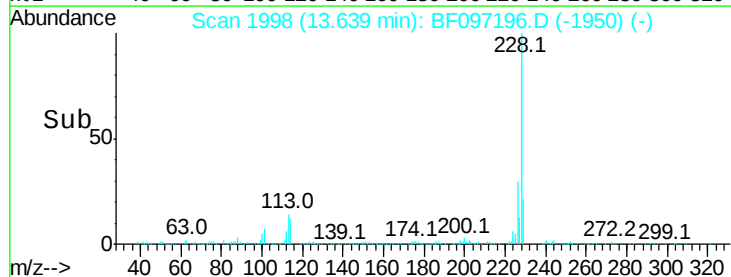
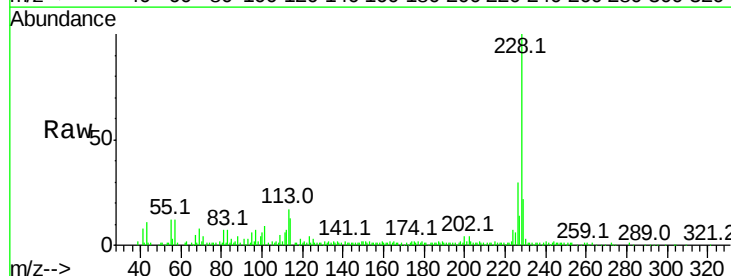
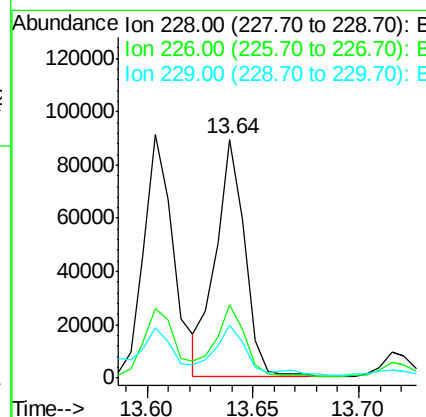
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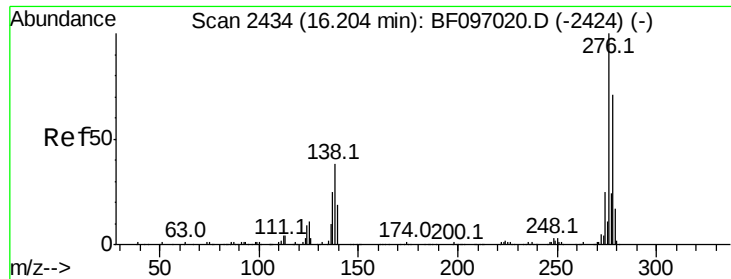
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#82
Chrysene
Concen: 6.800 ng
RT: 13.64 min Scan# 1998
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.9	37.3
229	22.4	15.8	23.6





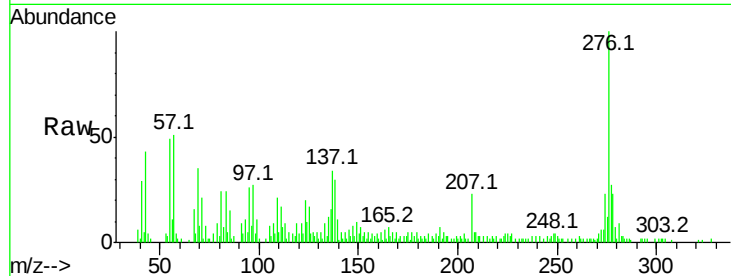
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.379 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

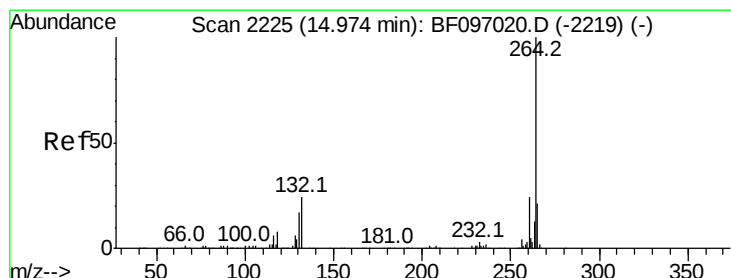
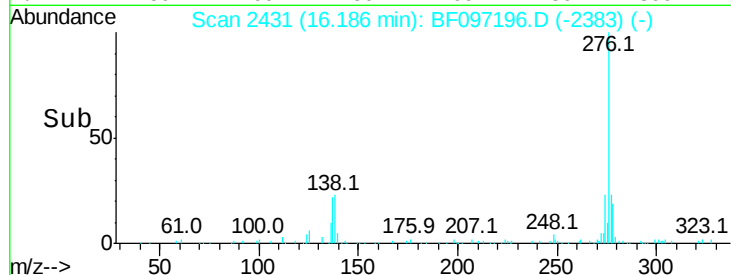
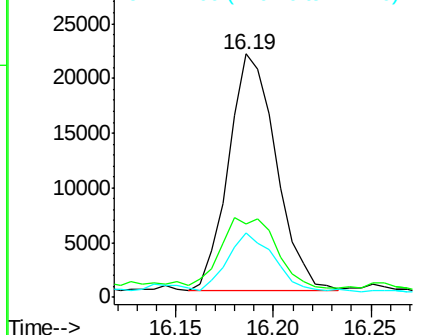
Tot Ion	Ratio	Lower	Upper
276	100		
138	34.5	27.8	41.6
277	25.2	20.2	30.4

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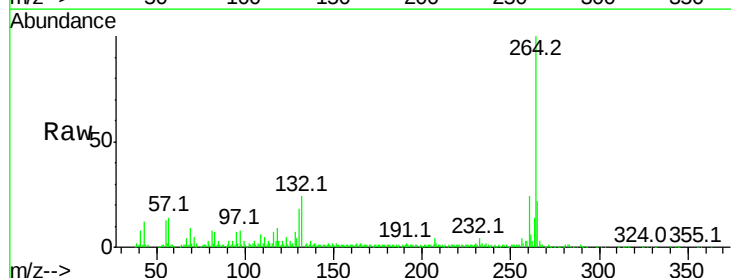


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

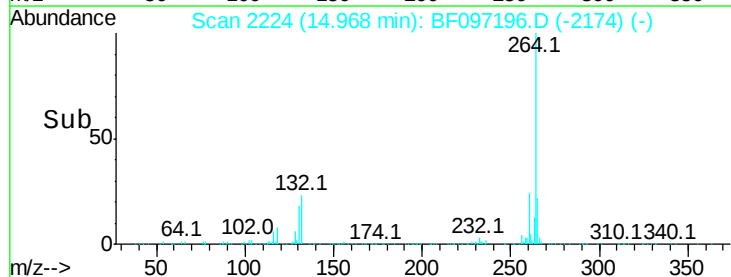
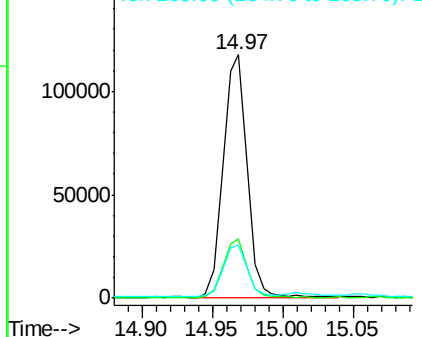


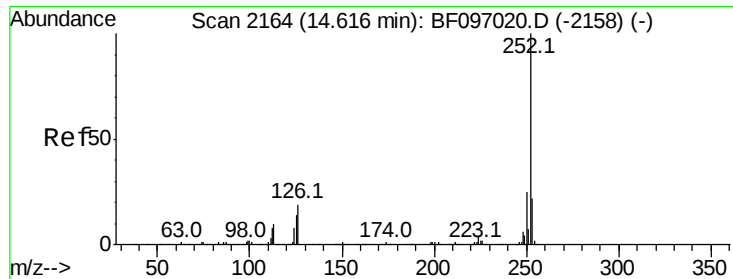
#86
Perylene-d12
Concen: 20.000 ng
RT: 14.97 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.5	29.3
265	22.0	17.2	25.8



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 11.706 ng m

RT: 14.61 min Scan# 2163

Delta R.T. -0.01 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Instrument :

BNA_F

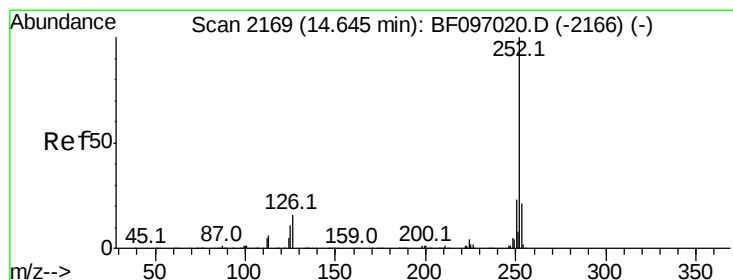
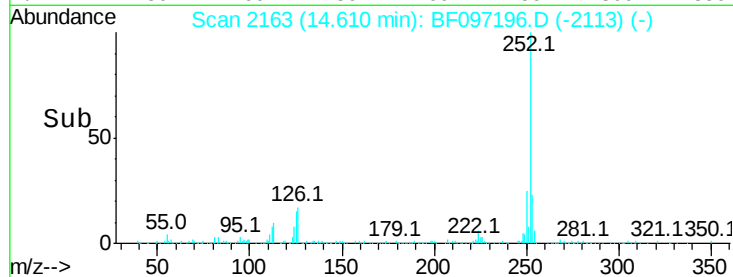
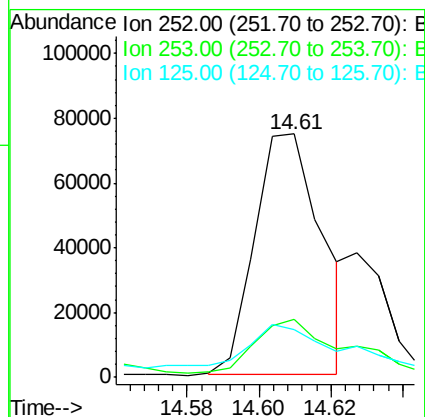
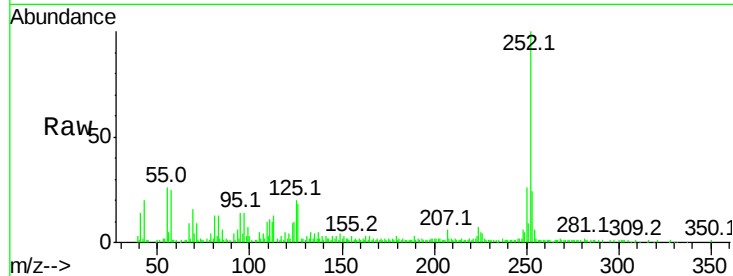
ClientSampleId :

E2-M6-WSW

Tot Ion:	252	Resp:	95852
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.1	27.1
125	19.5	9.8	14.8#

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#88

Benzo(k)fluoranthene

Concen: 3.790 ng m

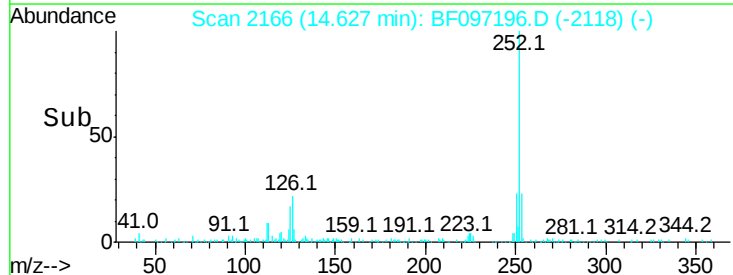
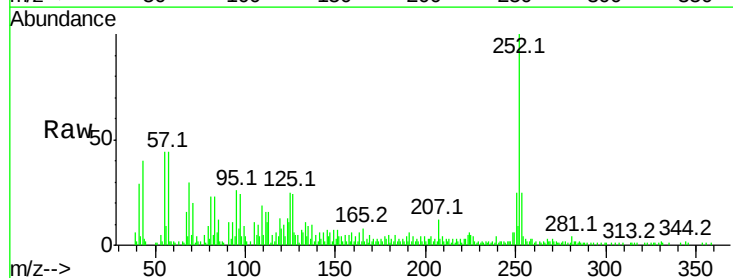
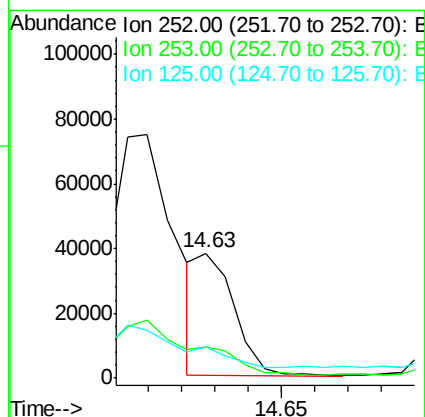
RT: 14.63 min Scan# 2166

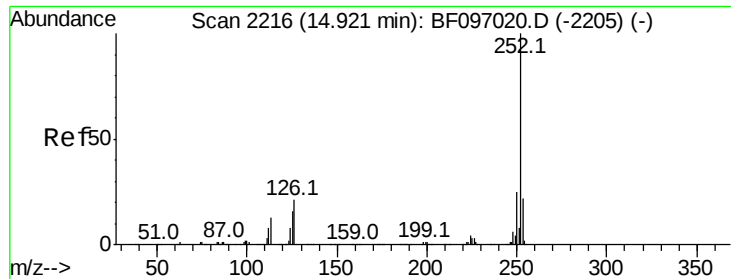
Delta R.T. -0.02 min

Lab File: BF097196.D

Acq: 29 Jul 2017 11:23

Tgt Ion:	252	Resp:	29575
Ion Ratio	Lower	Upper	
252	100		
253	25.2	18.4	27.6
125	25.3	13.1	19.7#





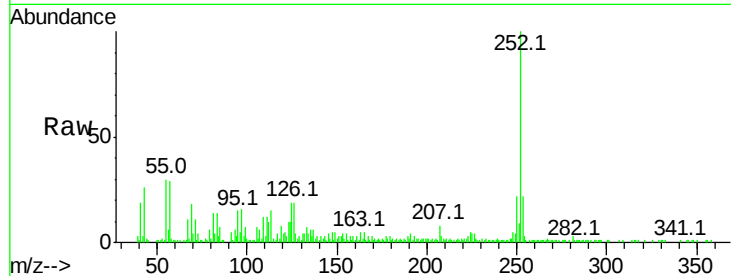
#89
Benzo(a)pyrene
Concen: 8.456 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Instrument :
BNA_F
ClientSampleId :
E2-M6-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	18.6	11.0	16.4

Manual Integrations
APPROVED

Sohil
7/31/2017 6:53:17 PM

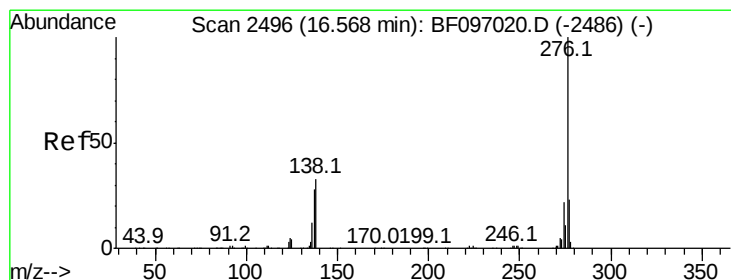
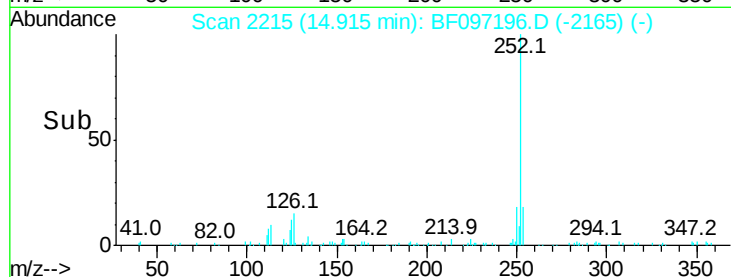
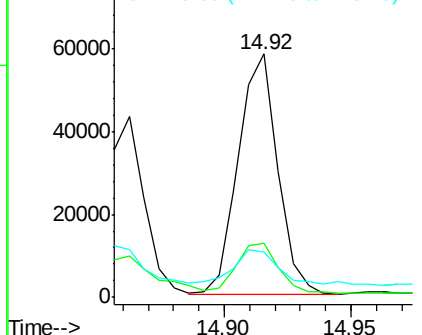


Abundance

Ion 252.00 (251.70 to 252.70): E

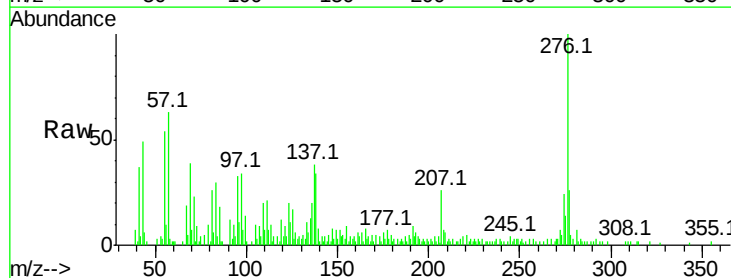
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 6.159 ng
RT: 16.55 min Scan# 2493
Delta R.T. -0.02 min
Lab File: BF097196.D
Acq: 29 Jul 2017 11:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.6	28.0
138	33.8	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

