

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061316\
 Data File : BF087991.D
 Acq On : 13 Jun 2016 19:07
 Operator : UM/SJ
 Sample : H3419-05
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 T6-B2(6-12)C

Manual Integrations
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Quant Time: Jun 14 03:15:08 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 13 14:10:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	117762	20.00	ng	0.01
21) Naphthalene-d8	8.08	136	443945	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	209642	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	324952	20.00	ng	0.01
75) Chrysene-d12	13.97	240	215997	20.00	ng	0.01
86) Perylene-d12	15.38	264	198138	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	766279	111.24	ng	0.01
7) Phenol-d6	6.44	99	1083991	129.85	ng	0.01
23) Nitrobenzene-d5	7.36	82	547554	72.02	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	171900	77.66	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	876497	64.33	ng	0.00
78) Terphenyl-d14	12.91	244	616547	64.95	ng	0.01
Target Compounds						
48) Acenaphthylene	9.70	152	43562	2.02	ng	Qvalue # 92
49) Dimethylphthalate	9.55	163	117200	7.72	ng	99
51) Acenaphthene	9.87	154	41137	3.06	ng	97
54) Dibenzofuran	10.04	168	49967	2.70	ng	# 95
57) Fluorene	10.38	166	119381	5.26	ng	# 97
70) Phenanthrene	11.35	178	1543684	90.53	ng	99
71) Anthracene	11.39	178	434844	25.28	ng	99
74) Fluoranthene	12.56	202	1835548	102.00	ng	98
77) Pyrene	12.78	202	1456599	90.88	ng	98
80) Benzo(a)anthracene	13.95	228	932552	75.76	ng	97
82) Chrysene	13.99	228	573297	49.51	ng	97
85) Indeno(1,2,3-cd)pyrene	16.74	276	285427	26.53	ng	# 100
87) Benzo(b)fluoranthene	14.98	252	820173m	59.39	ng	
88) Benzo(k)fluoranthene	15.01	252	253320m	24.32	ng	
89) Benzo(a)pyrene	15.33	252	513409	45.95	ng	96
90) Dibenzo(a,h)anthracene	16.74	278	73268m	7.06	ng	
91) Benzo(a,h,i)perylene	17.15	276	253836	23.78	ng	99

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

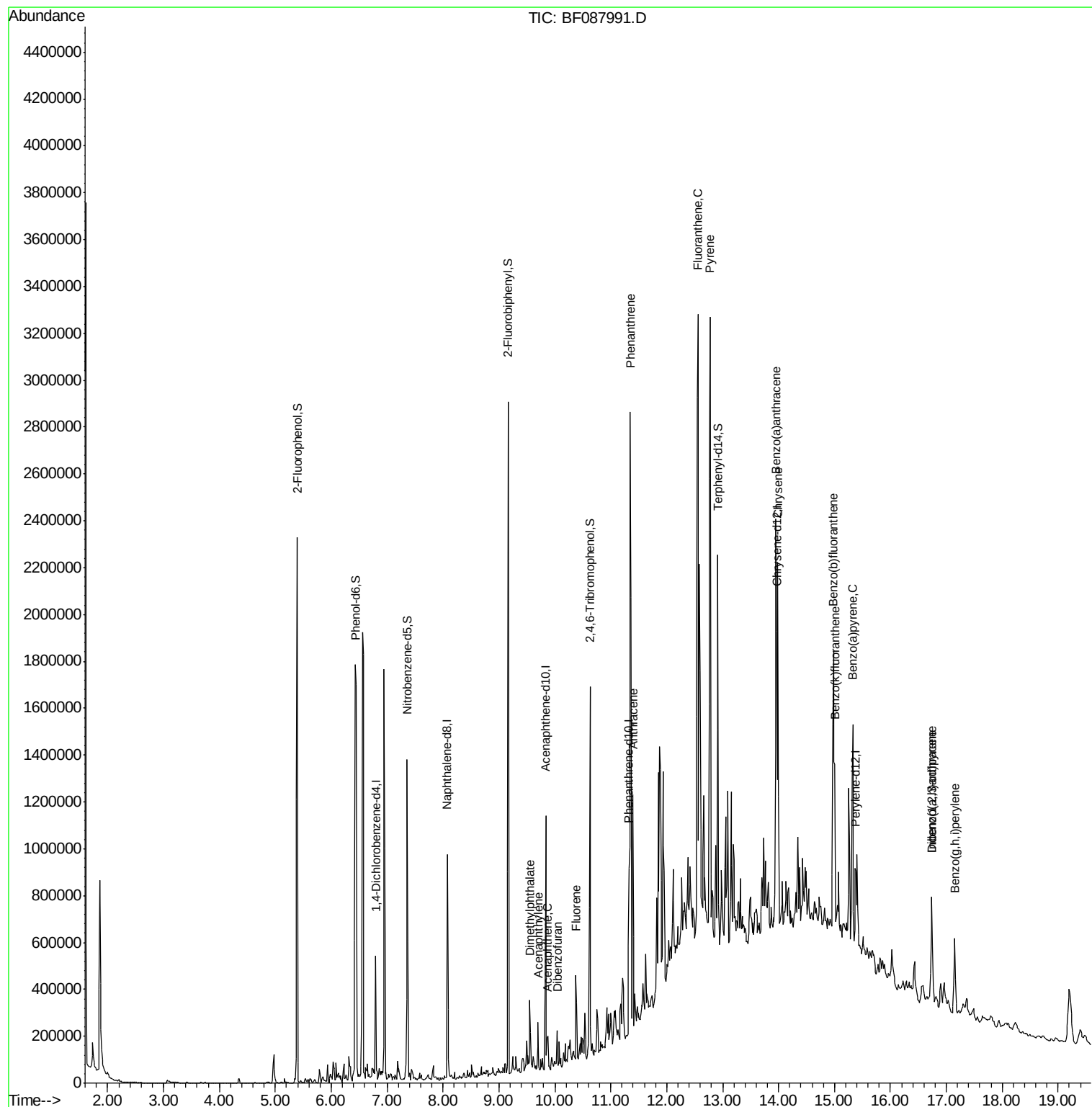
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061316\
Data File : BF087991.D
Acq On : 13 Jun 2016 19:07
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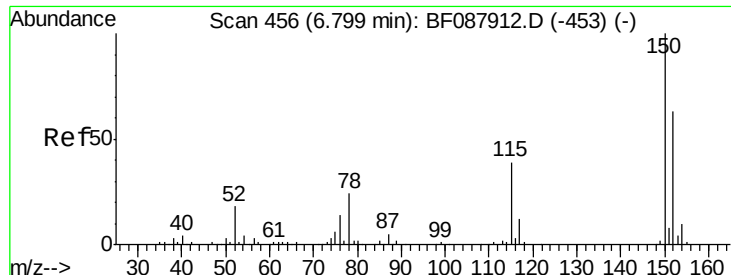
Instrument :
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T6-B2(6-12)C

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#1

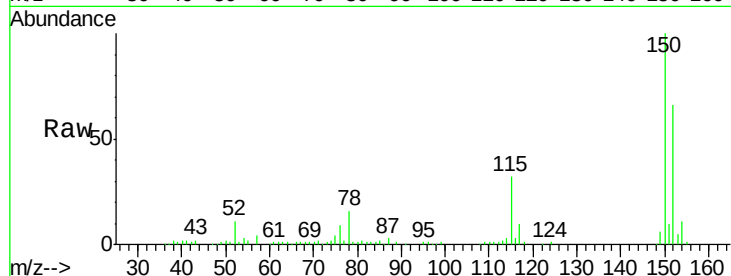
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 456
Delta R.T. 0.01 min
Lab File: BF087991.D
Acq: 13 Jun 2016 19:07

Instrument :
BNA_F
ClientSampleId :
T6-B2(6-12)C

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.0	123.8	185.6
115	48.7	39.6	59.4

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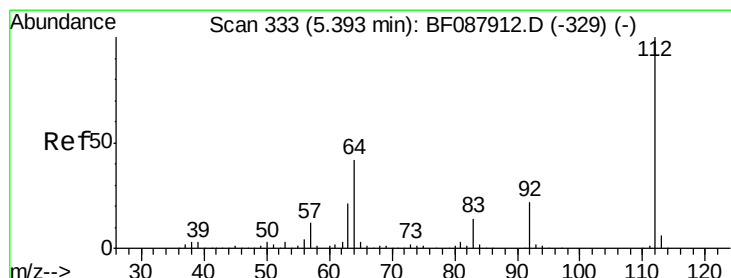
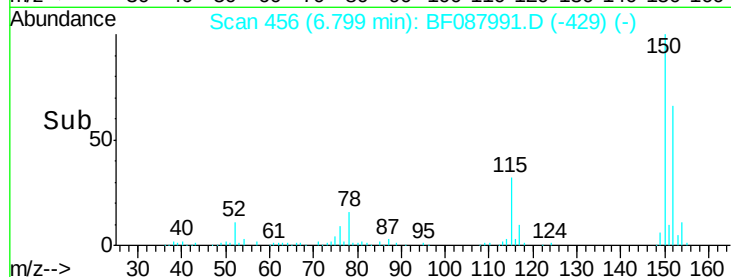
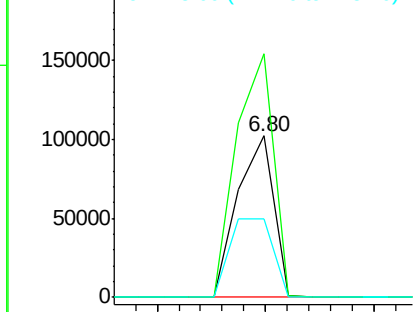


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

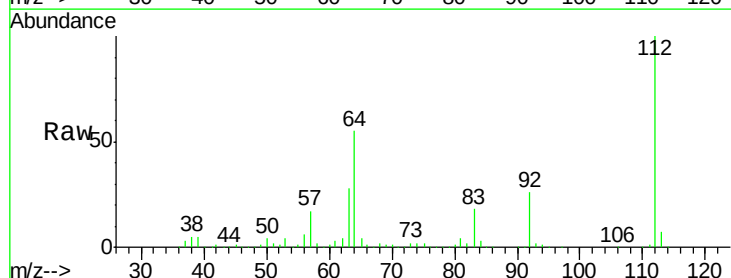
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 111.24 ng
RT: 5.39 min Scan# 333
Delta R.T. 0.01 min
Lab File: BF087991.D
Acq: 13 Jun 2016 19:07

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	42.2	63.2
63	28.2	21.8	32.8

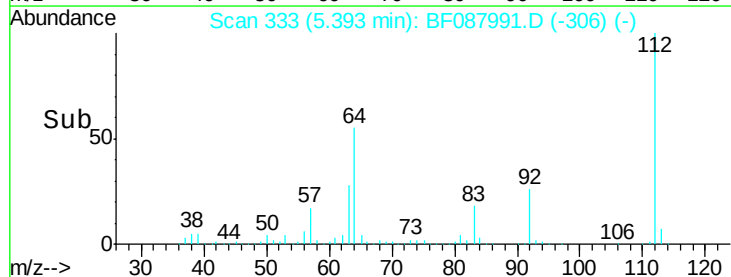
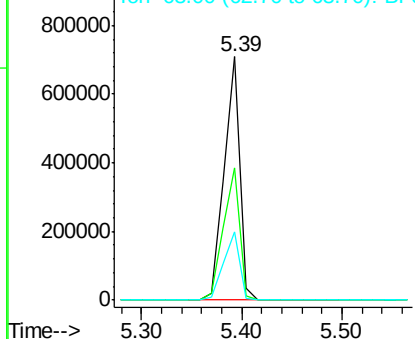


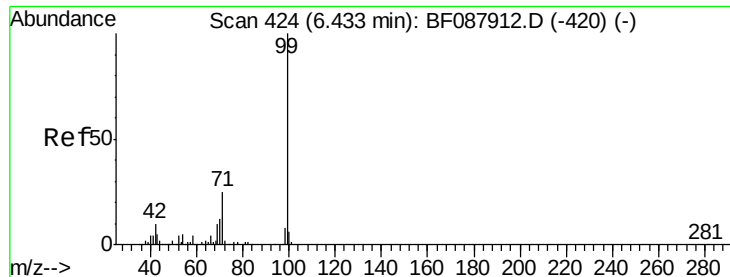
Abundance

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: 129.85 ng

RT: 6.44 min Scan# 425

Delta R.T. 0.01 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

ClientSampleId :

T6-B2(6-12)C

Tot Ion: 99 Resp: 1083991

Ion Ratio Lower Upper

99 100

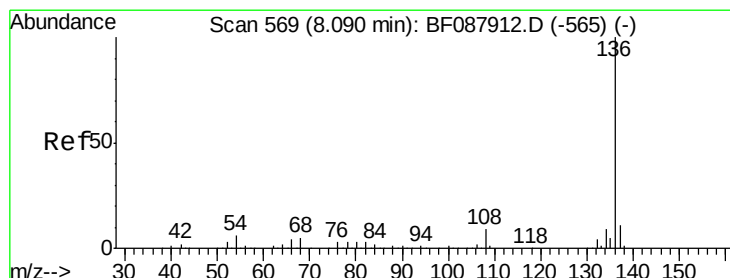
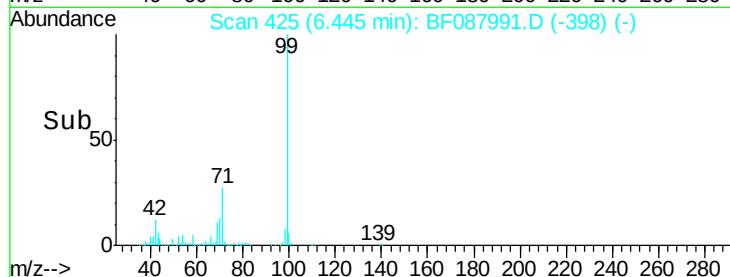
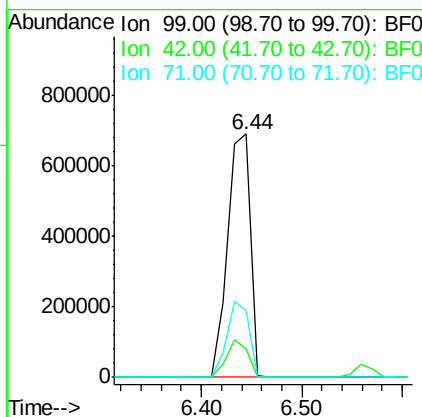
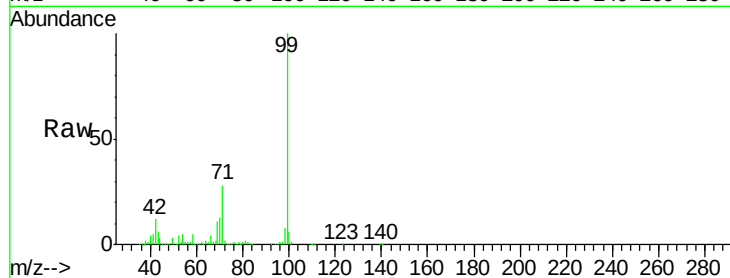
42 11.7 12.2 18.2#

71 27.6 23.4 35.0

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 568

Delta R.T. 0.00 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Tgt Ion: 136 Resp: 443945

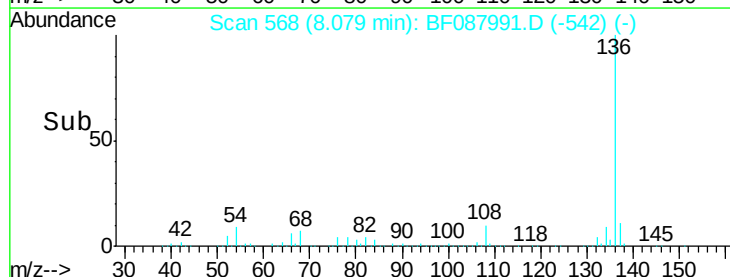
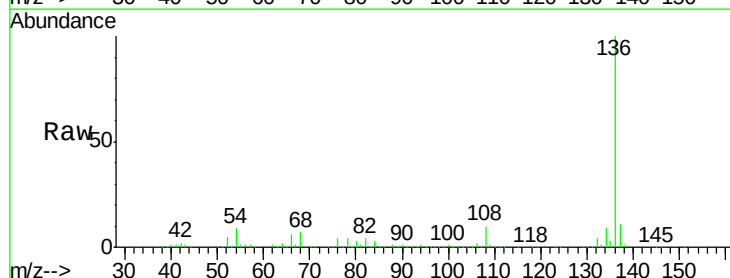
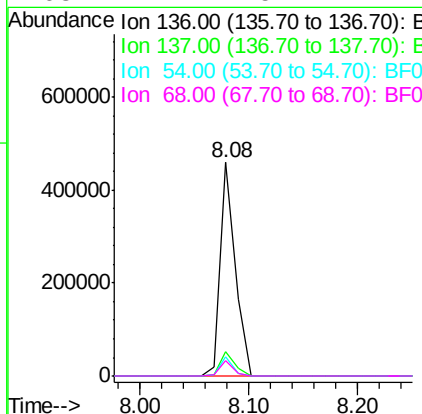
Ion Ratio Lower Upper

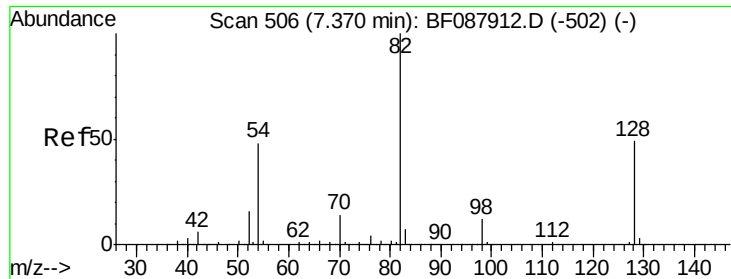
136 100

137 11.5 9.1 13.7

54 8.7 6.6 10.0

68 7.2 5.1 7.7





#23

Nitrobenzene-d5

Concen: 72.02 ng

RT: 7.36 min Scan# 505

Delta R.T. 0.00 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

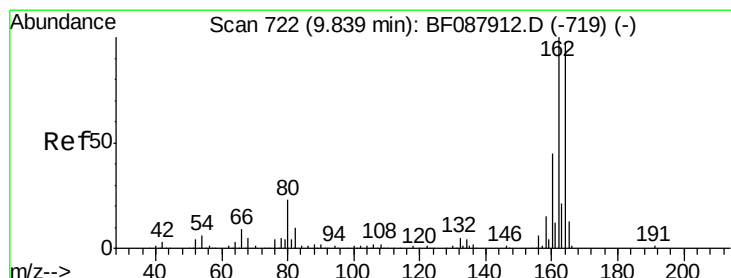
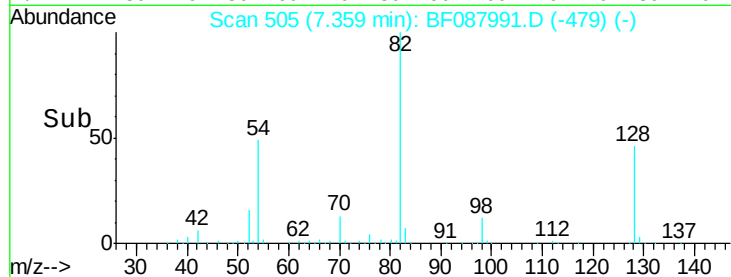
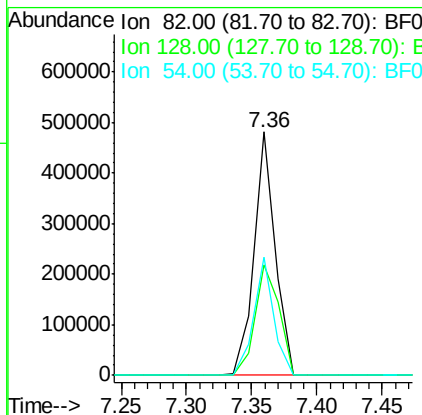
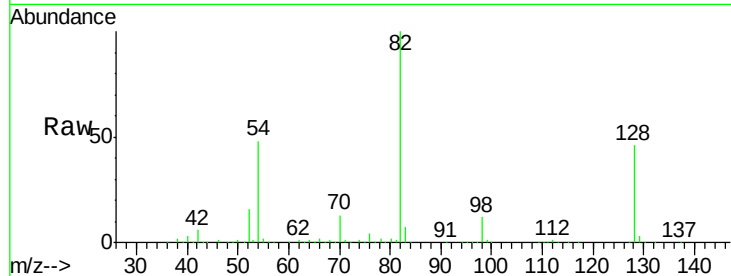
ClientSampleId :

T6-B2(6-12)C

Tot Ion:	82	Resp:	547554
Ion Ratio	Lower	Upper	
82	100		
128	45.6	35.9	53.9
54	48.5	40.9	61.3

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#38

Acenaphthene-d10

Concen: 20.00 ng

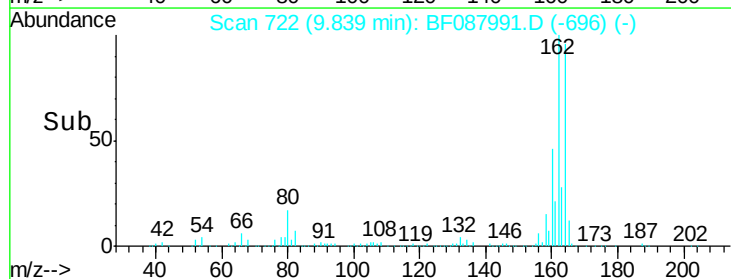
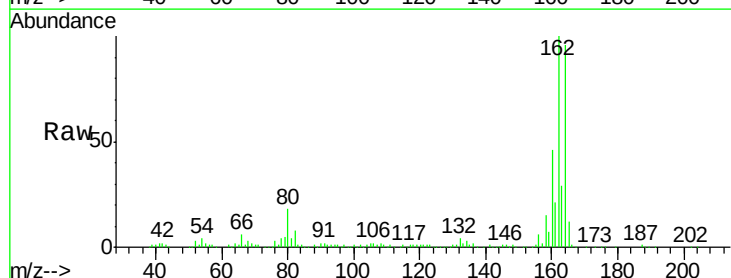
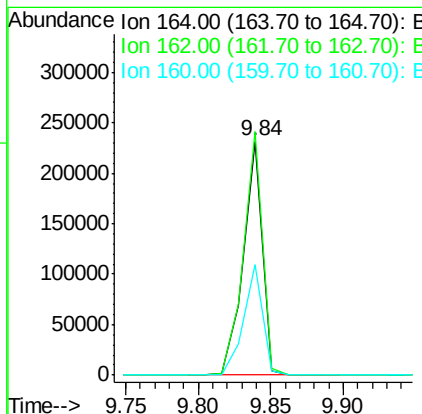
RT: 9.84 min Scan# 722

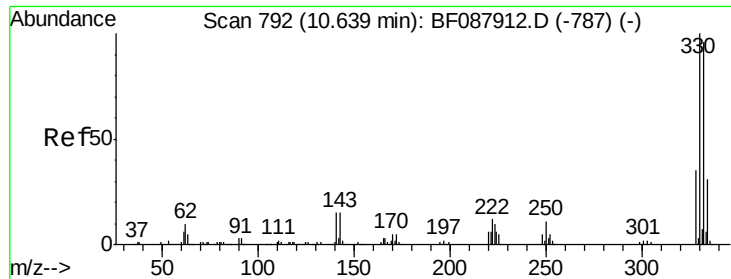
Delta R.T. 0.00 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Tgt Ion:	164	Resp:	209642
Ion Ratio	Lower	Upper	
164	100		
162	104.2	85.4	128.2
160	47.5	39.5	59.3





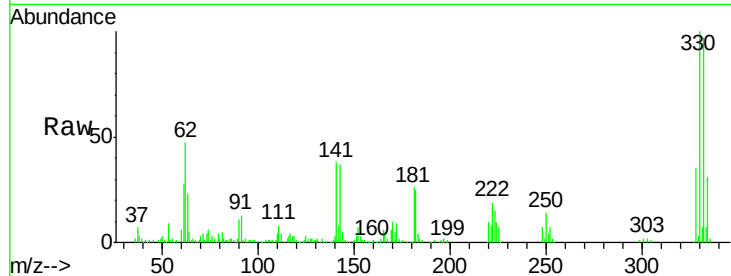
#41
 2,4,6-Tribromophenol
 Concen: 77.66 ng
 RT: 10.63 min Scan# 791
 Delta R.T. 0.00 min
 Lab File: BF087991.D
 Acq: 13 Jun 2016 19:07

Instrument :
 BNA_F
 ClientSampleId :
 T6-B2(6-12)C

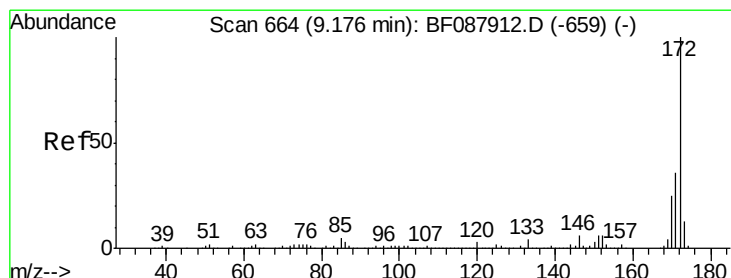
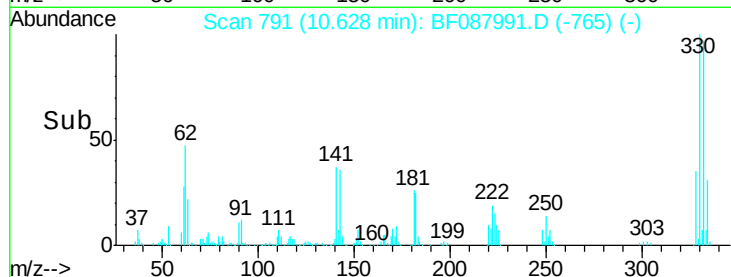
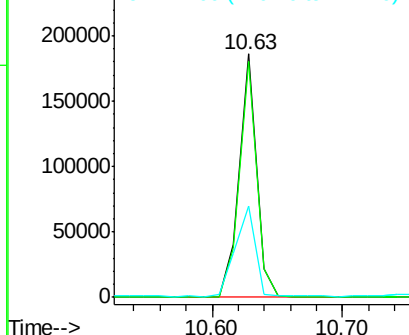
Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	96.4	0.0	0.0#
141	43.2	0.0	0.0#

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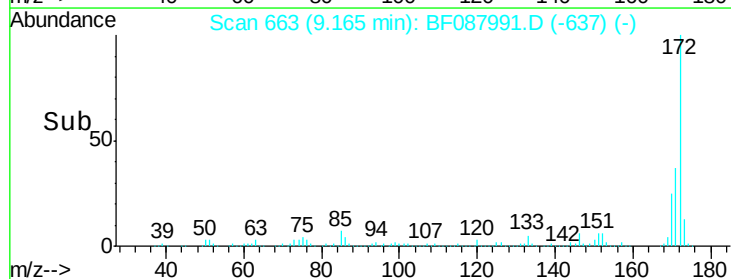
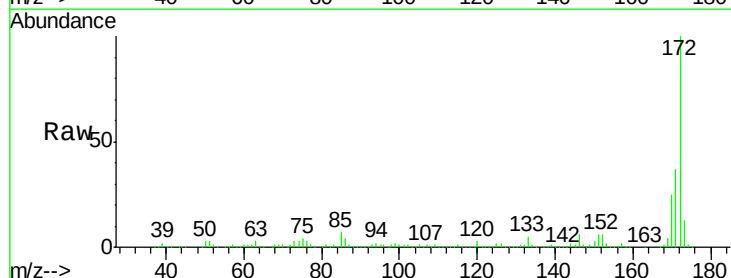
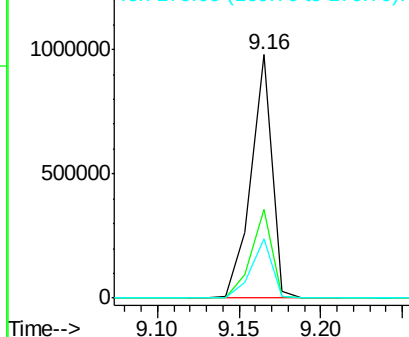
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

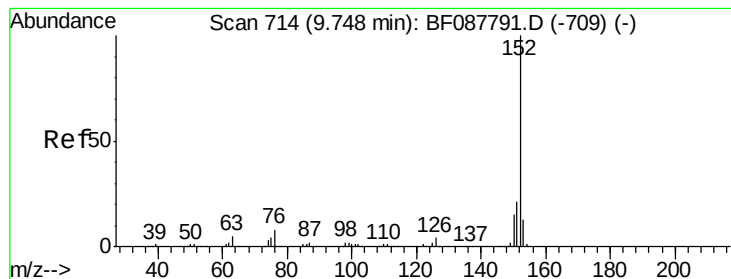


#44
 2-Fluorobiphenyl
 Concen: 64.33 ng
 RT: 9.16 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: BF087991.D
 Acq: 13 Jun 2016 19:07

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	36.6	28.6	43.0
170	24.6	19.2	28.8

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





#48

Acenaphthylene

Concen: 2.02 ng

RT: 9.70 min Scan# 710

Delta R.T. 0.00 min

Lab File: BF087991.D

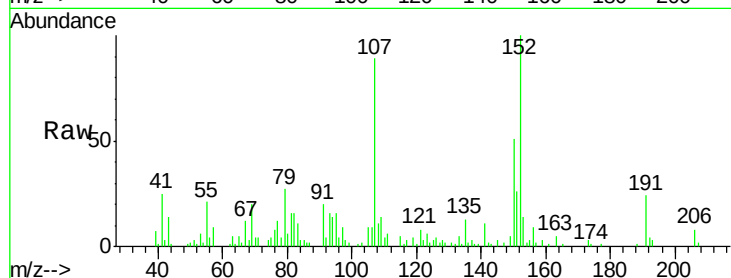
Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

ClientSampleId :

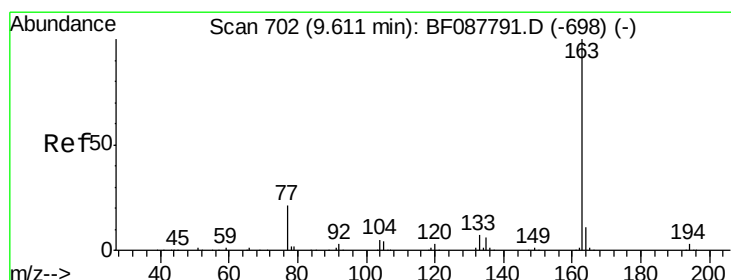
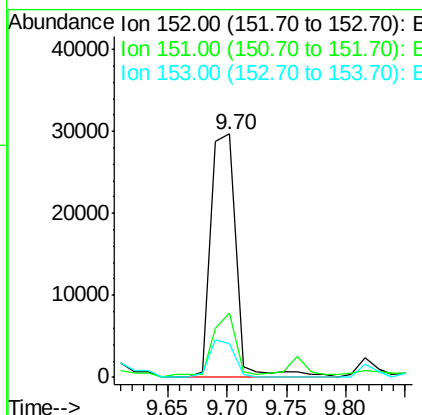
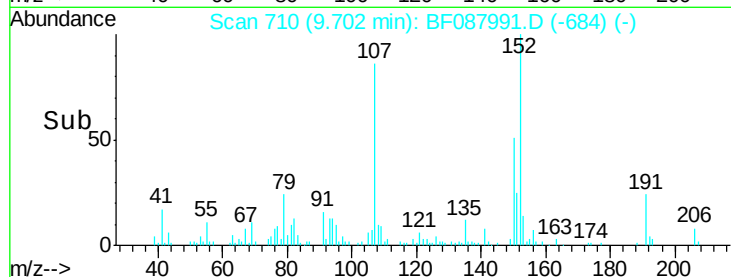
T6-B2(6-12)C



Tot Ion:	152	Resp:	43562
Ion Ratio	Lower	Upper	
152	100		
151	26.5	16.2	24.4#
153	14.1	11.0	16.6

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#49

Dimethylphthalate

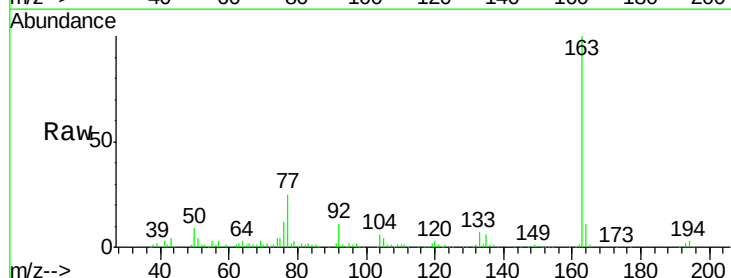
Concen: 7.72 ng

RT: 9.55 min Scan# 697

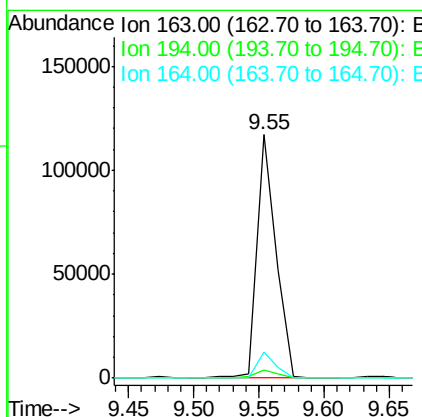
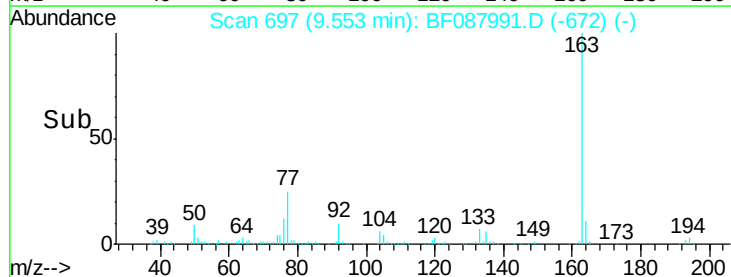
Delta R.T. -0.01 min

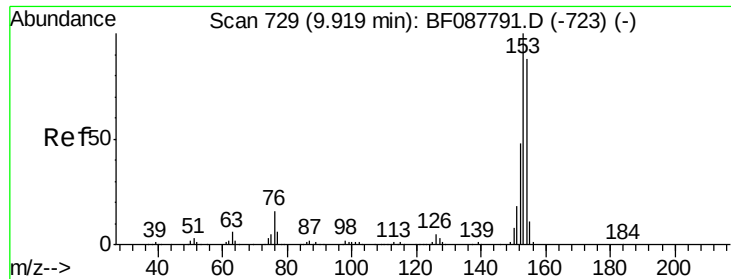
Lab File: BF087991.D

Acq: 13 Jun 2016 19:07



Tgt Ion:	163	Resp:	117200
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.8	4.2
164	10.7	8.3	12.5





#51

Acenaphthene

Concen: 3.06 ng

RT: 9.87 min Scan# 725

Delta R.T. 0.00 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

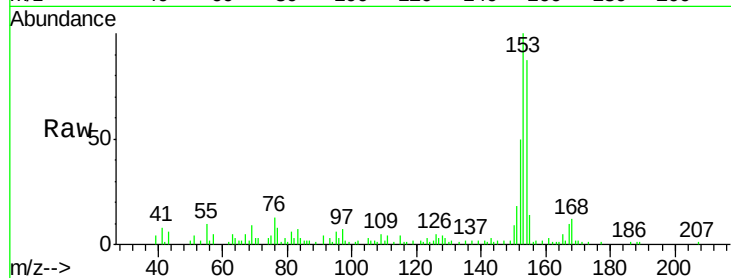
ClientSampleId :

T6-B2(6-12)C

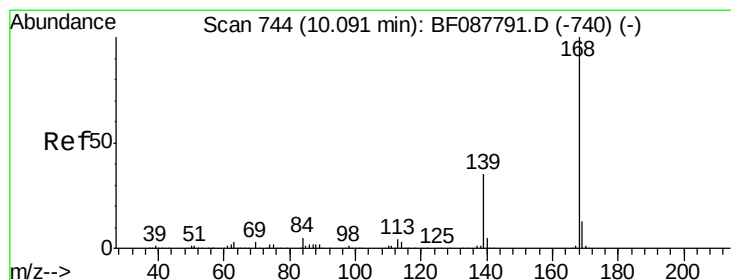
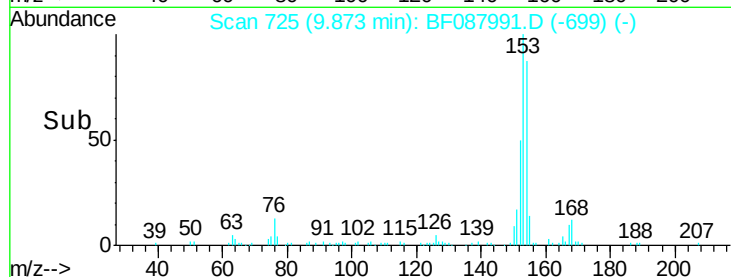
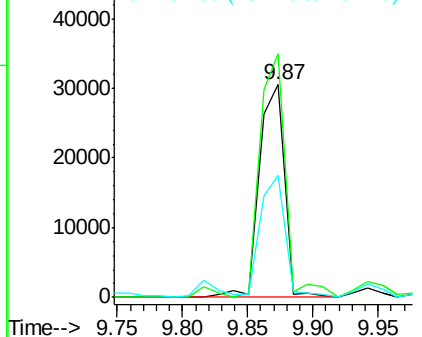
Tot Ion:	154	Resp:	41137
Ion Ratio	Lower	Upper	
154	100		
153	114.6	89.5	134.3
152	57.3	42.7	64.1

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.70 ng

RT: 10.04 min Scan# 740

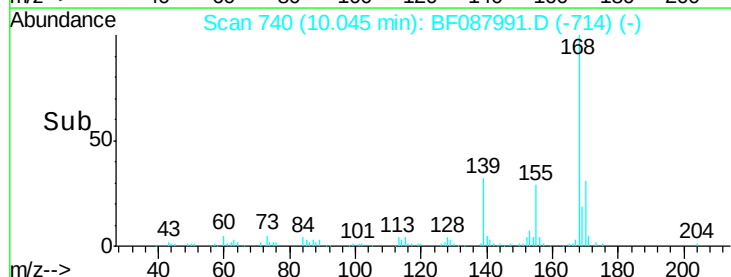
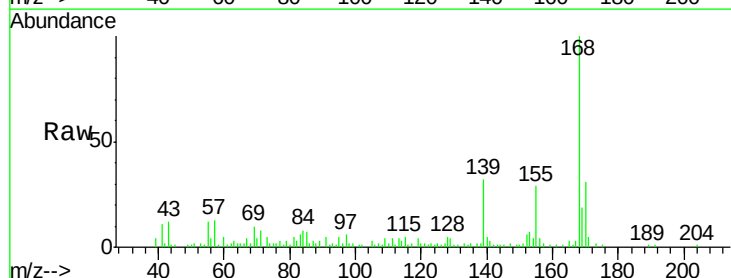
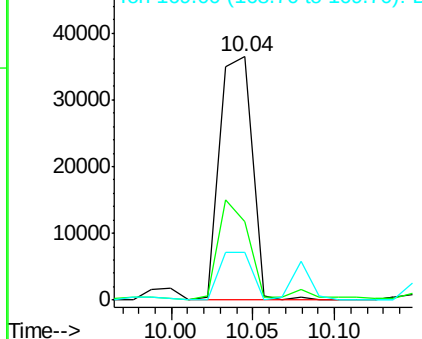
Delta R.T. 0.00 min

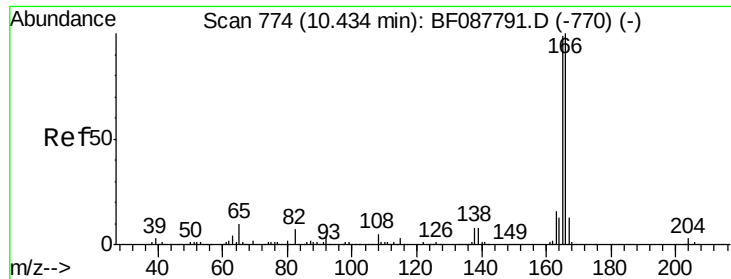
Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Tgt Ion:	168	Resp:	49967
Ion Ratio	Lower	Upper	
168	100		
139	32.2	26.4	39.6
169	19.4	10.4	15.6#

Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 5.26 ng

RT: 10.38 min Scan# 769

Delta R.T. -0.01 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

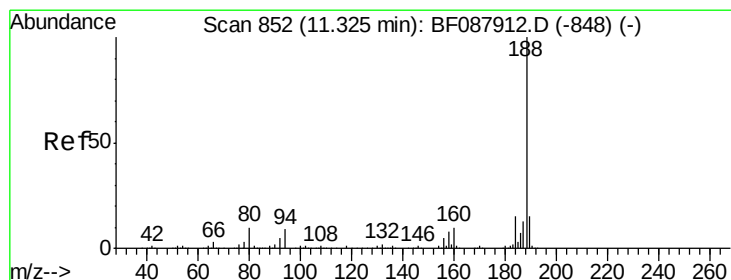
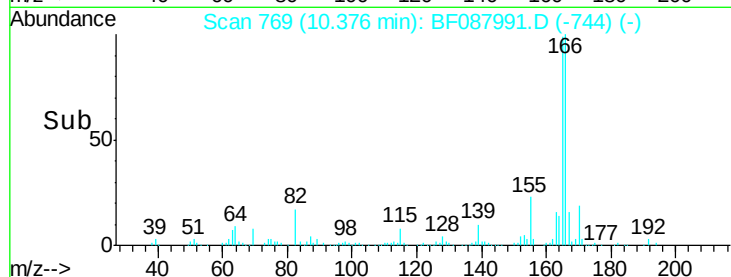
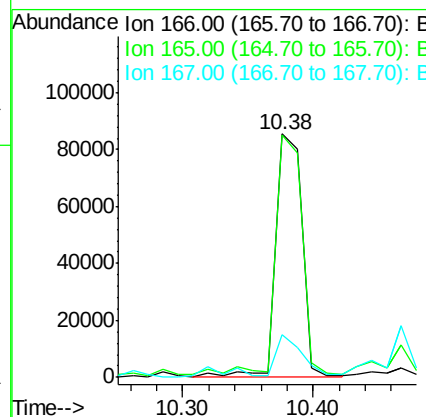
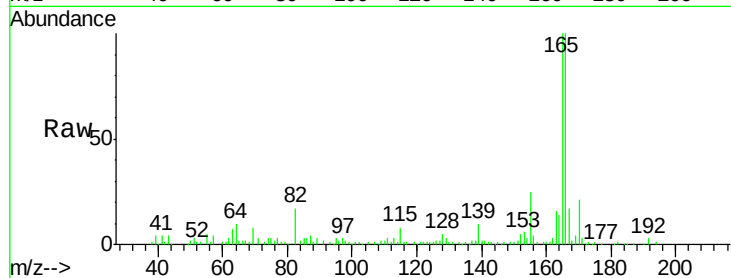
ClientSampleId :

T6-B2(6-12)C

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	99.6	77.8	116.8		
167	17.3	11.2	16.8#		



#63

Phenanthrene-d10

Concen: 20.00 ng

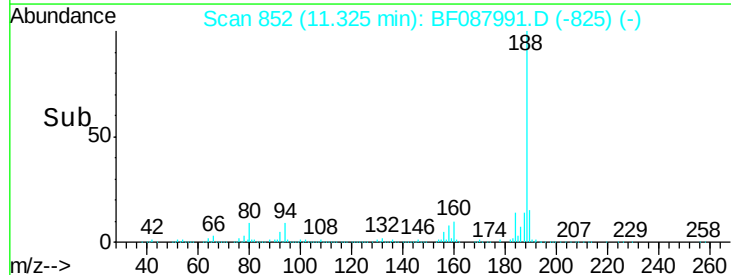
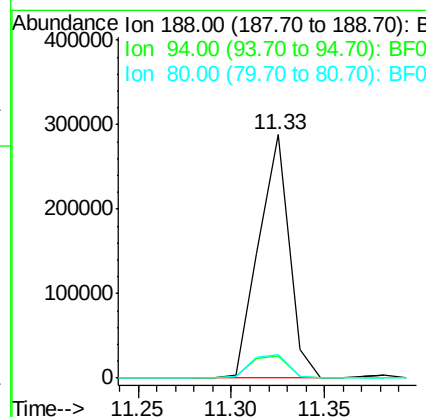
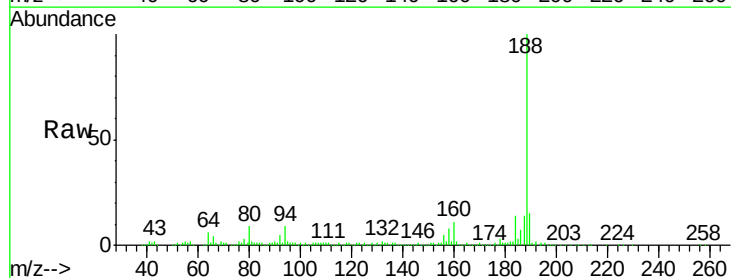
RT: 11.33 min Scan# 852

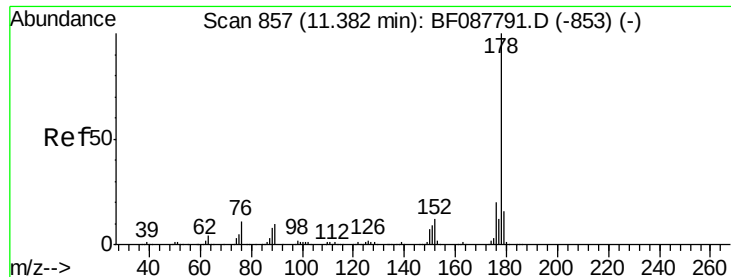
Delta R.T. 0.01 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	9.1	9.0	13.6		
80	9.5	10.0	15.0#		





#70

Phenanthrene

Concen: 90.53 ng

RT: 11.35 min Scan# 854

Delta R.T. 0.00 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

ClientSampleId :

T6-B2(6-12)C

Tot Ion:178 Resp: 1543684

Ion Ratio Lower Upper

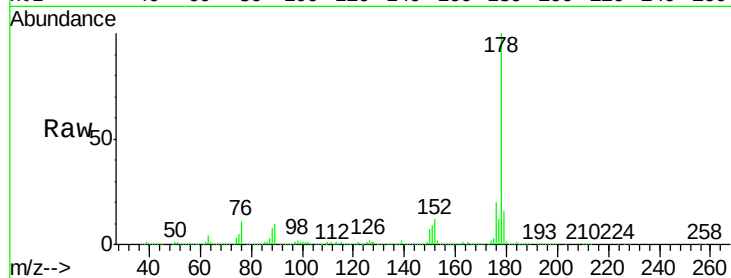
178 100

176 20.4 15.8 23.6

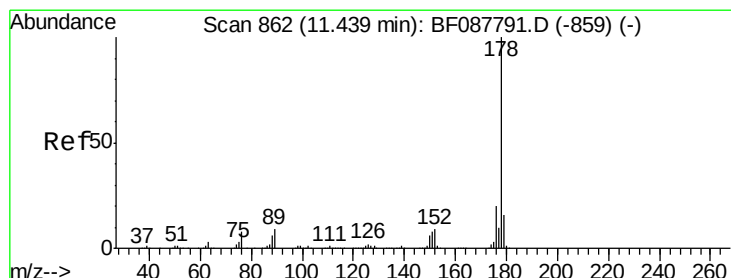
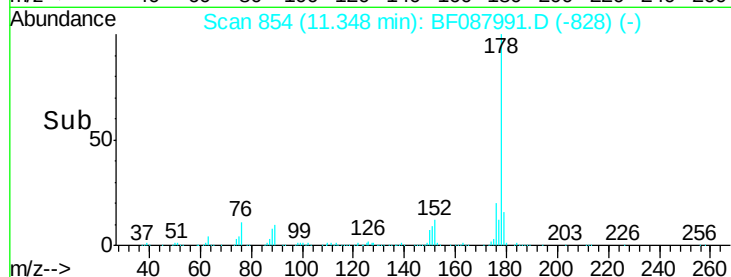
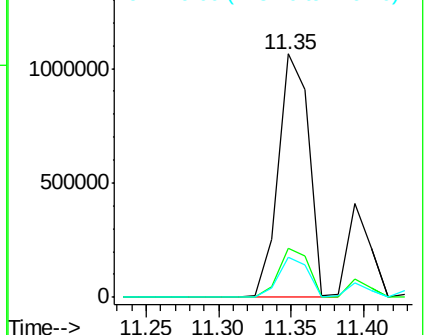
179 16.4 13.0 19.4

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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: 25.28 ng

RT: 11.39 min Scan# 858

Delta R.T. 0.00 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

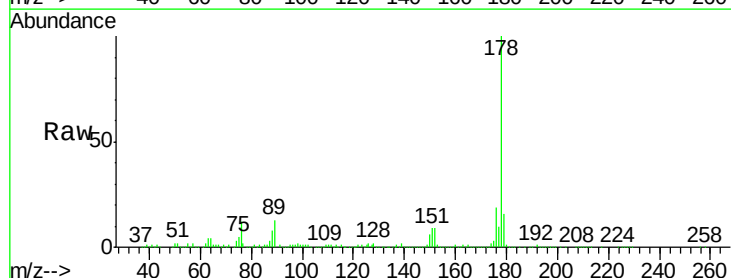
Tgt Ion:178 Resp: 434844

Ion Ratio Lower Upper

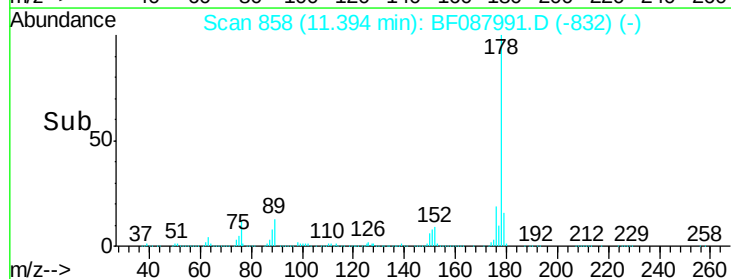
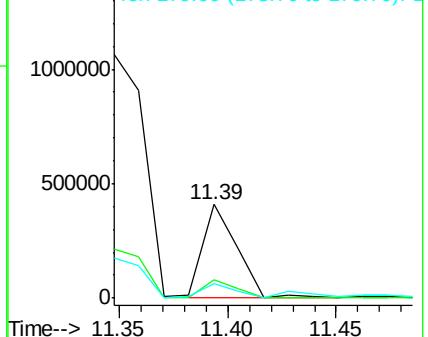
178 100

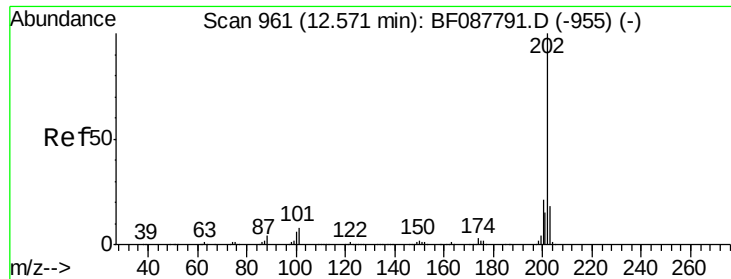
176 19.0 15.6 23.4

179 16.0 12.8 19.2



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: 102.00 ng

RT: 12.56 min Scan# 960

Delta R.T. 0.03 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

ClientSampleId :

T6-B2(6-12)C

Tot Ion:202 Resp: 1835548

Ion Ratio Lower Upper

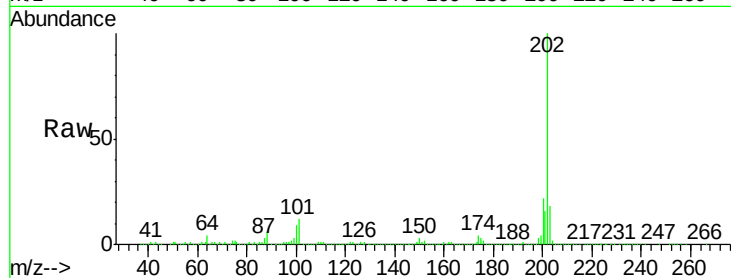
202 100

101 12.0 0.0 33.1

203 18.4 0.0 38.1

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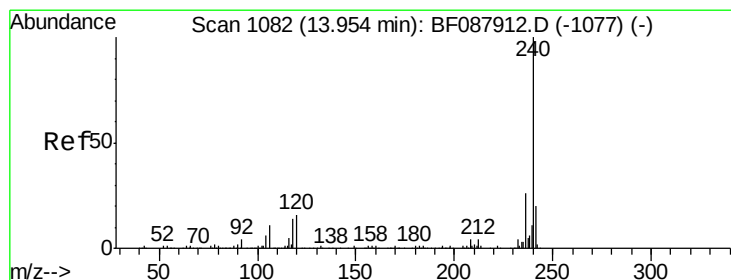
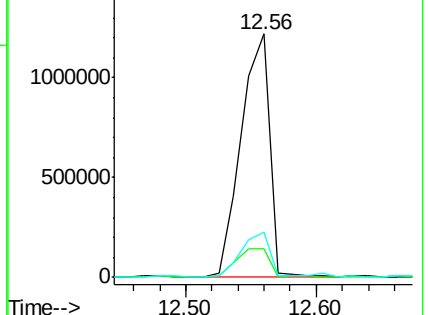
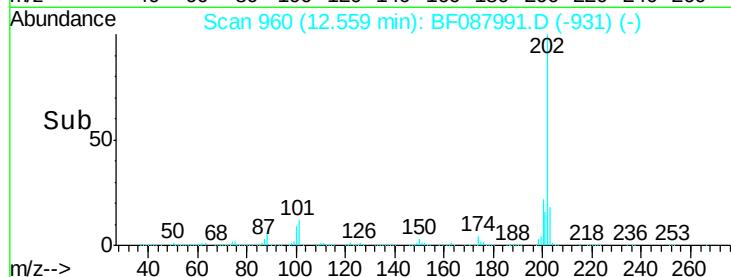
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.97 min Scan# 1083

Delta R.T. 0.01 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

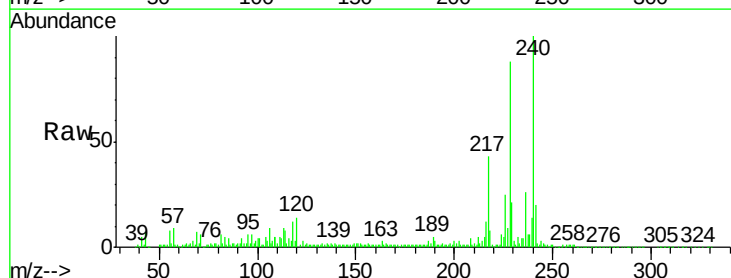
Tgt Ion:240 Resp: 215997

Ion Ratio Lower Upper

240 100

120 14.0 6.8 10.2#

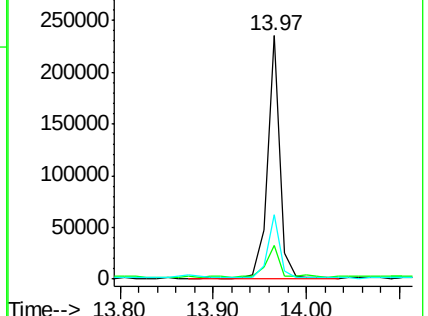
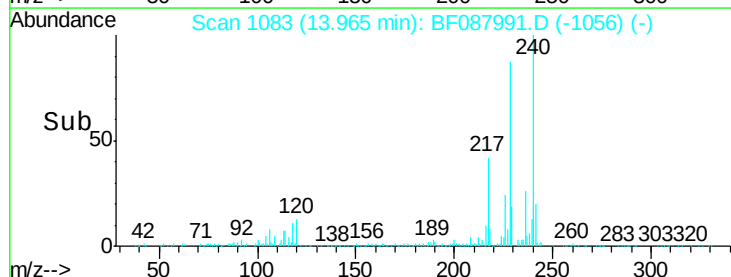
236 26.3 20.2 30.2

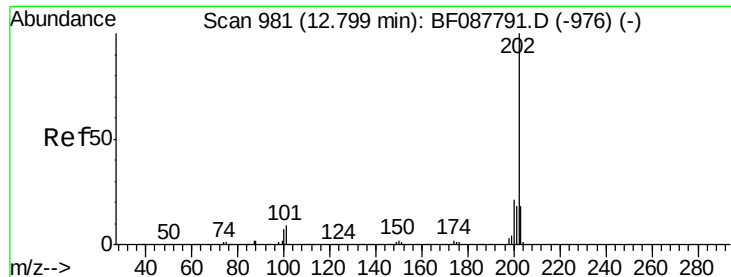


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 90.88 ng

RT: 12.78 min Scan# 979

Delta R.T. 0.02 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

ClientSampleId :

T6-B2(6-12)C

Tot Ion:202 Resp: 1456599

Ion Ratio Lower Upper

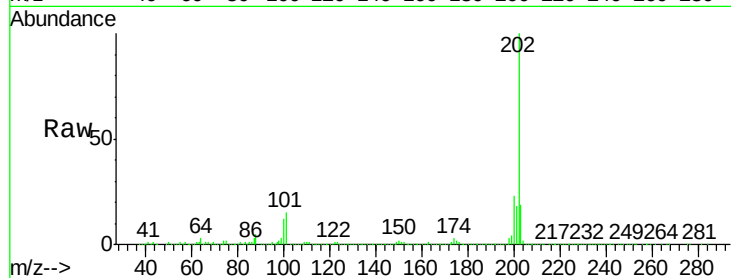
202 100

200 22.8 17.4 26.2

203 18.6 14.5 21.7

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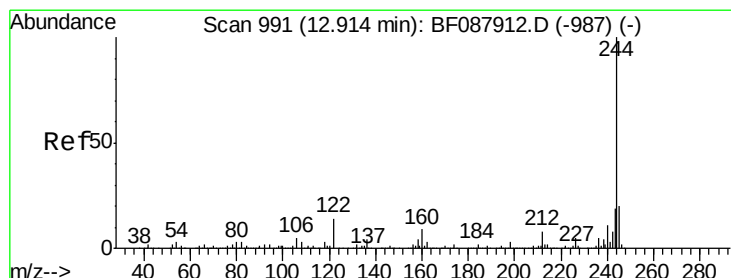
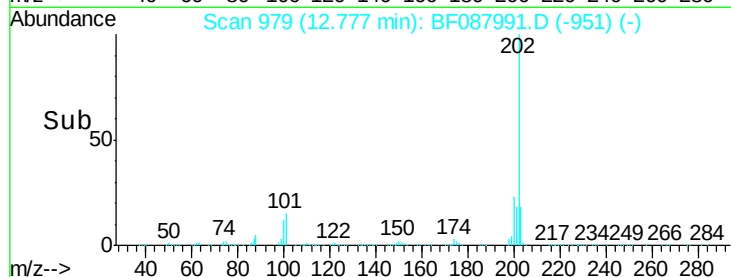
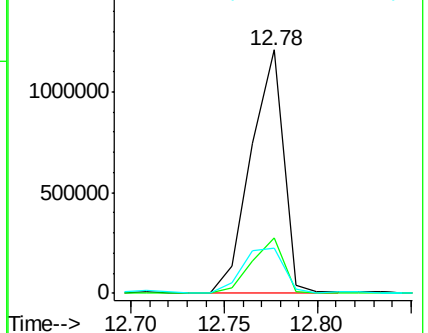
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 64.95 ng

RT: 12.91 min Scan# 991

Delta R.T. 0.01 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

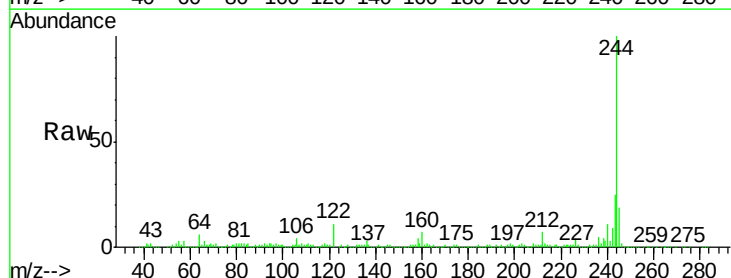
Tgt Ion:244 Resp: 616547

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

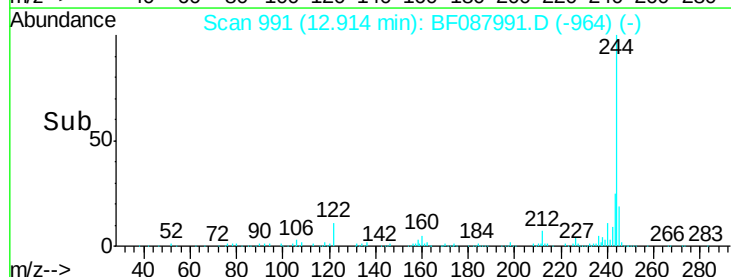
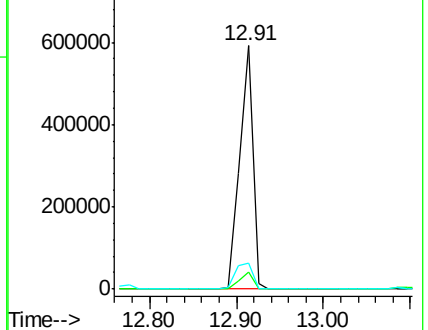
122 10.9 11.2 16.8#

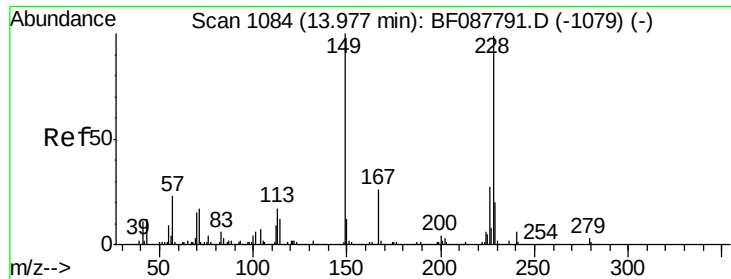


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





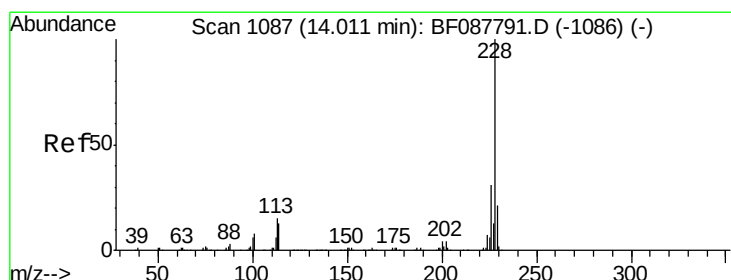
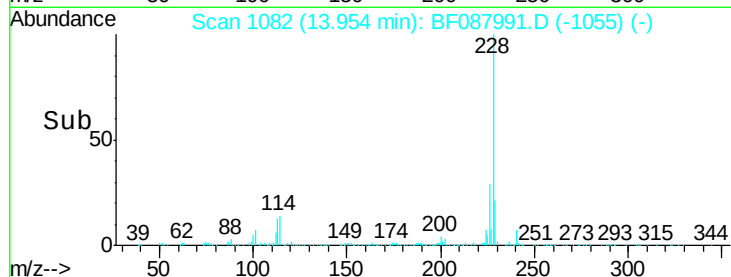
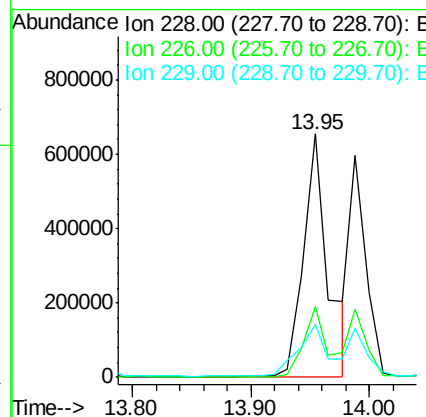
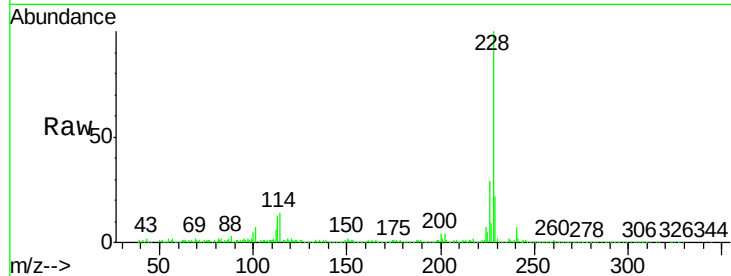
#80
Benzo(a)anthracene
Concen: 75.76 ng
RT: 13.95 min Scan# 1082
Delta R.T. 0.01 min
Lab File: BF087791.D
Acq: 13 Jun 2016 19:07

Instrument :
BNA_F
ClientSampleId :
T6-B2(6-12)C

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.3	33.5
229	21.5	16.0	24.0

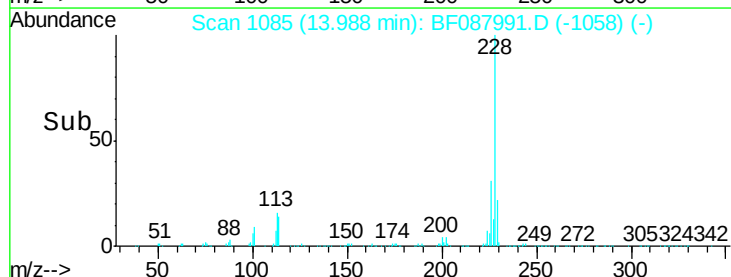
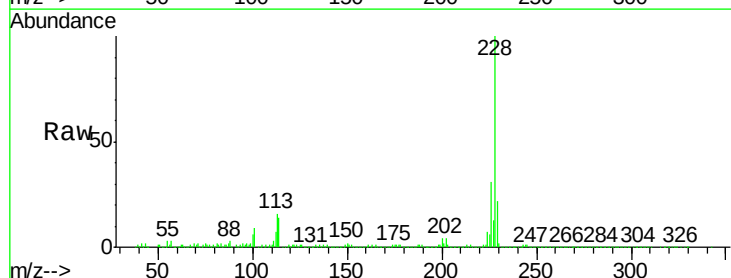
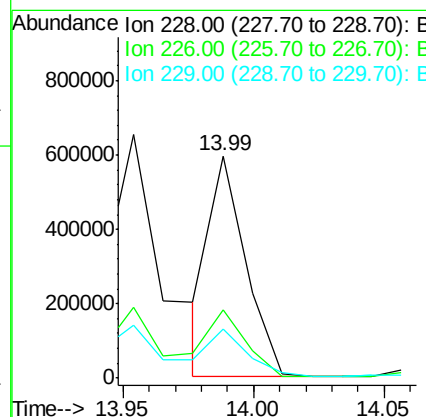
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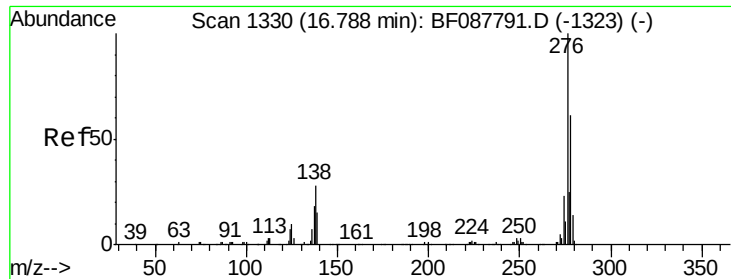
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#82
Chrysene
Concen: 49.51 ng
RT: 13.99 min Scan# 1085
Delta R.T. 0.01 min
Lab File: BF087791.D
Acq: 13 Jun 2016 19:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.4	38.2
229	22.3	16.3	24.5





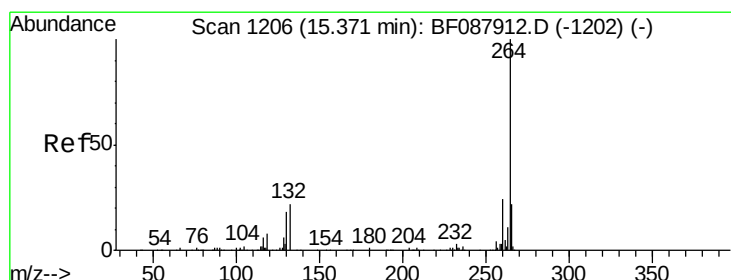
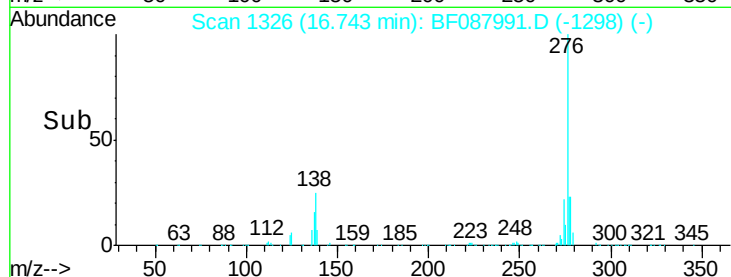
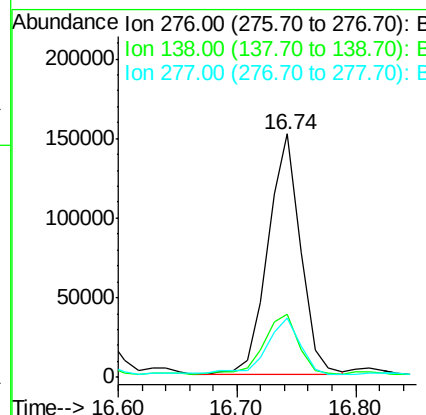
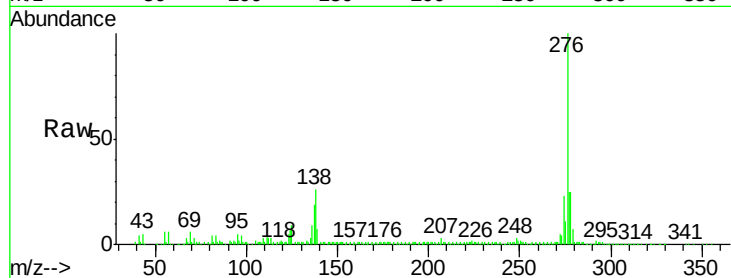
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 26.53 ng
 RT: 16.74 min Scan# 1326
 Delta R.T. 0.02 min
 Lab File: BF087991.D
 Acq: 13 Jun 2016 19:07

Instrument :
 BNA_F
 ClientSampleId :
 T6-B2(6-12)C

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.4	0.0	0.0#
277	25.2	0.0	0.0#

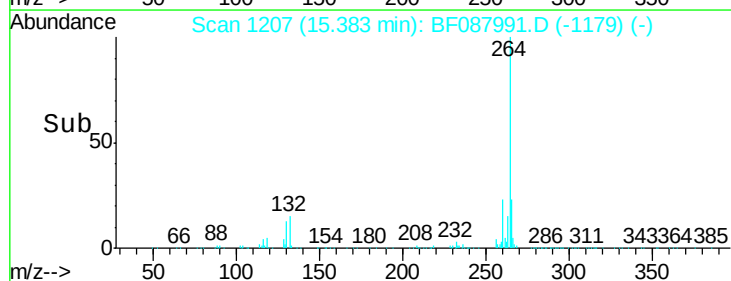
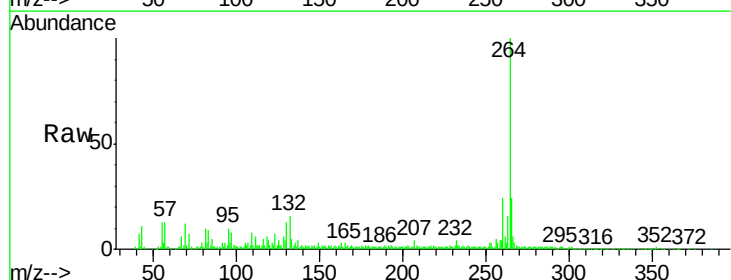
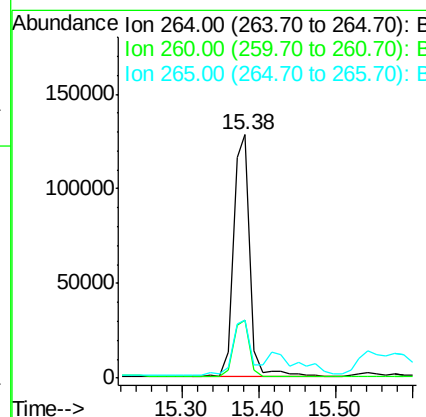
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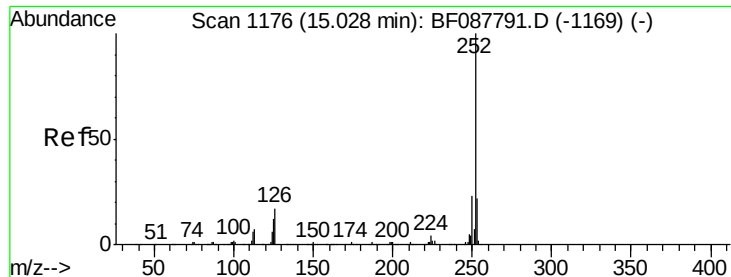
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.38 min Scan# 1207
 Delta R.T. 0.02 min
 Lab File: BF087991.D
 Acq: 13 Jun 2016 19:07

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	23.7	16.9	25.3





#87

Benzo(b)fluoranthene

Concen: 59.39 ng m

RT: 14.98 min Scan# 1172

Delta R.T. 0.02 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Instrument :

BNA_F

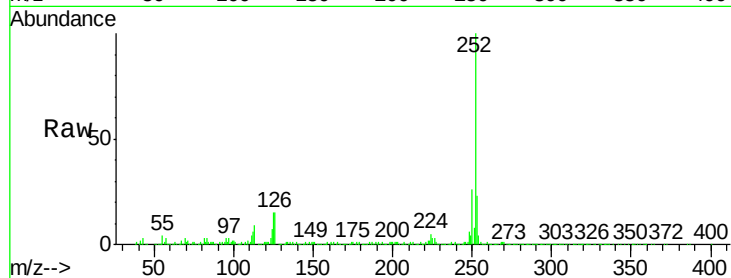
ClientSampleId :

T6-B2(6-12)C

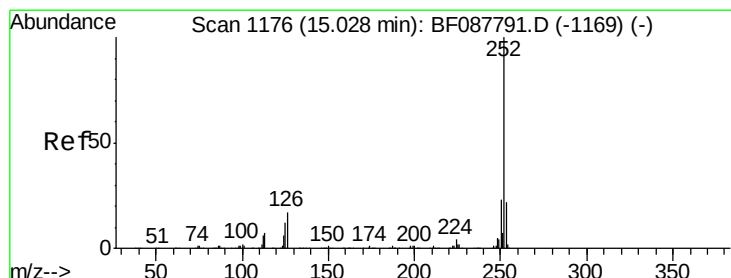
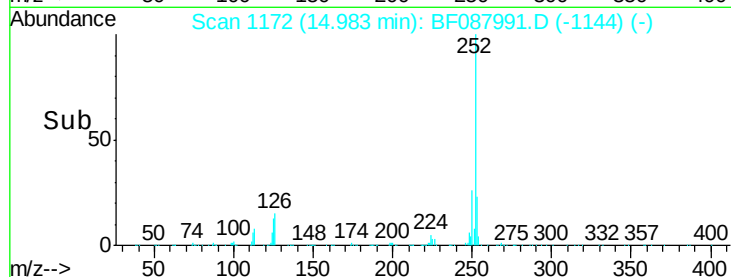
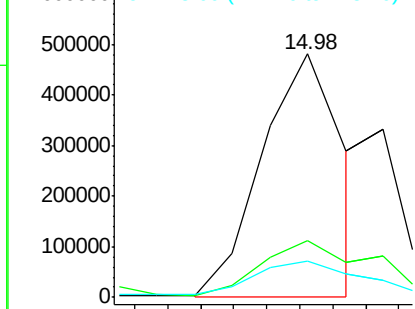
Tot Ion:	252	Resp:	820173
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.4	26.2
125	14.7	7.1	10.7#

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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



#88

Benzo(k)fluoranthene

Concen: 24.32 ng m

RT: 15.01 min Scan# 1174

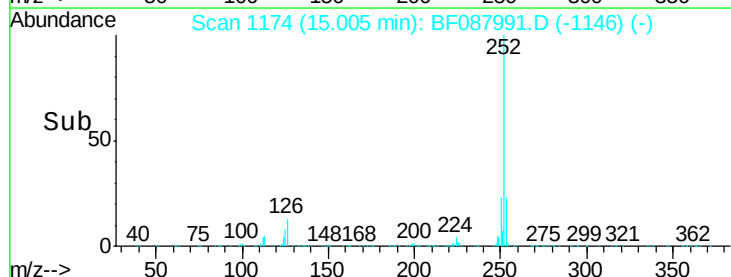
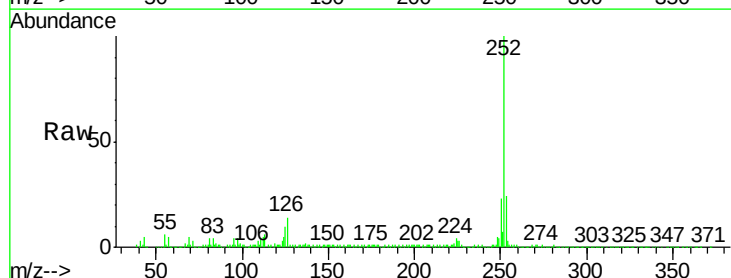
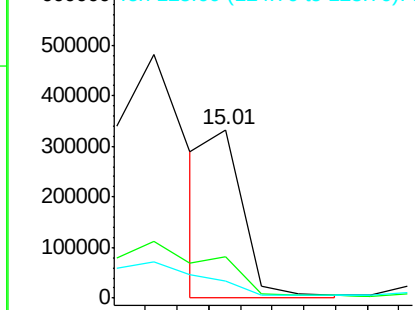
Delta R.T. 0.02 min

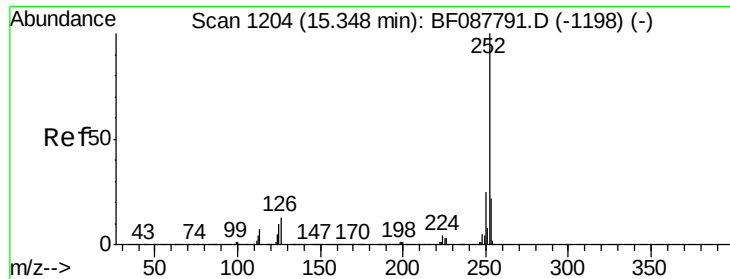
Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Tgt Ion:	252	Resp:	253320
Ion Ratio	Lower	Upper	
252	100		
253	24.2	18.0	27.0
125	10.4	11.2	16.8#

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





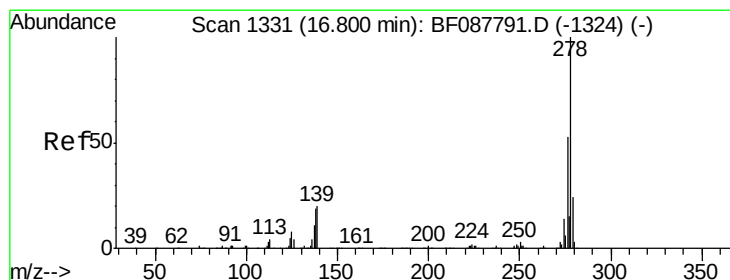
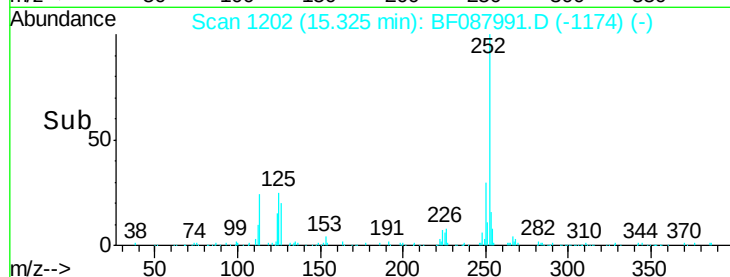
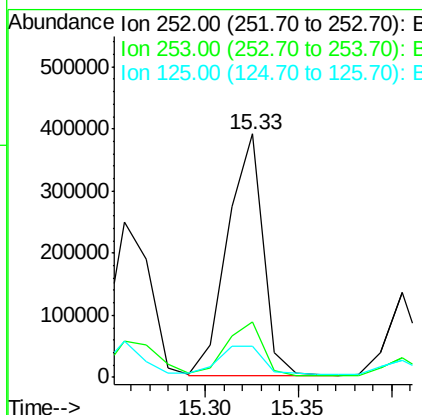
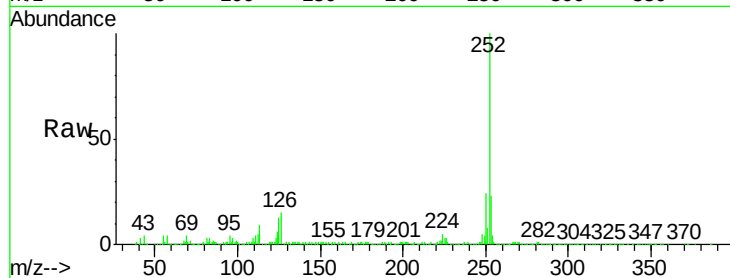
#89
Benzo(a)pyrene
Concen: 45.95 ng
RT: 15.33 min Scan# 1202
Delta R.T. 0.02 min
Lab File: BF087991.D
Acq: 13 Jun 2016 19:07

Instrument :
BNA_F
ClientSampleId :
T6-B2(6-12)C

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	12.6	12.5	18.7

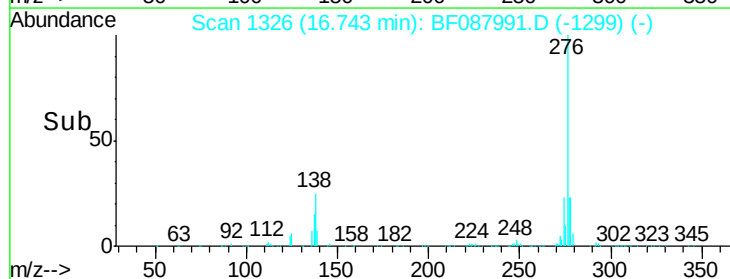
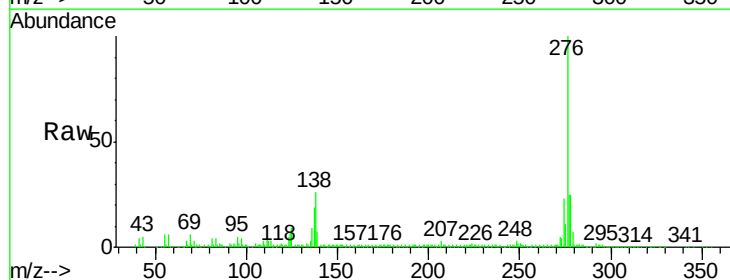
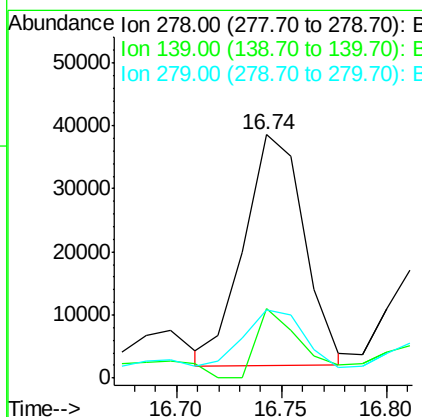
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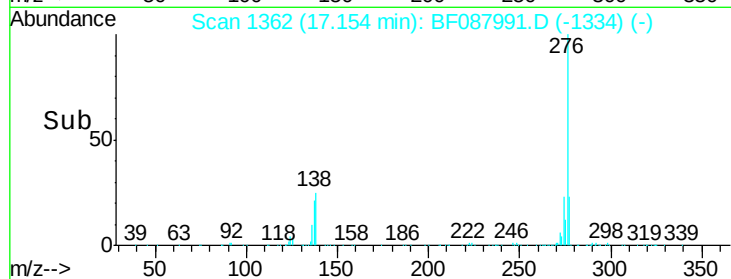
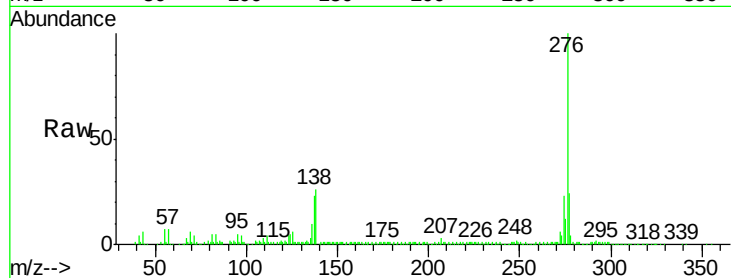
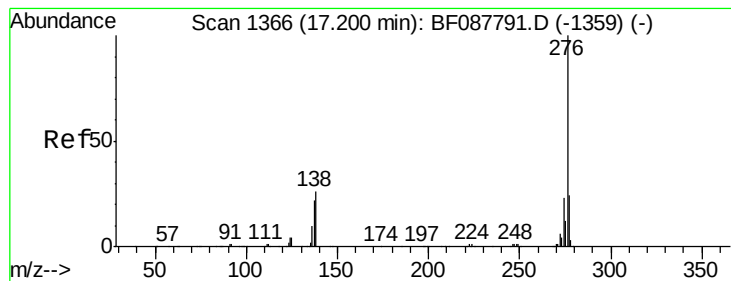
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#90
Dibenzo(a,h)anthracene
Concen: 7.06 ng m
RT: 16.74 min Scan# 1326
Delta R.T. 0.01 min
Lab File: BF087991.D
Acq: 13 Jun 2016 19:07

Tgt Ion	Ratio	Lower	Upper
278	100		
139	28.4	15.7	23.5#
279	28.2	19.4	29.2





#91

Benzo(a,h,i)perylene

Concen: 23.78 ng

RT: 17.15 min Scan# 1362

Delta R.T. 0.02 min

Lab File: BF087991.D

Acq: 13 Jun 2016 19:07

Tot Ion:	276	Resp:	253836
Ion Ratio	Lower	Upper	
276	100		
277	24.0	18.9	28.3
138	25.8	21.4	32.2

Instrument :

BNA_F

ClientSampleId :

T6-B2(6-12)C

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