

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\
 Data File : BF087749.D
 Acq On : 6 Jun 2016 13:44
 Operator : UM/SJ
 Sample : H3290-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)

Manual Integrations
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Quant Time: Jun 06 17:14:13 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 04 11:07:28 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	147344	20.00	ng	-0.02
21) Naphthalene-d8	8.14	136	632584	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	254494	20.00	ng	-0.02
63) Phenanthrene-d10	11.37	188	426815	20.00	ng	-0.01
75) Chrysene-d12	14.01	240	297364	20.00	ng	-0.01
86) Perylene-d12	15.44	264	265286	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.45	112	821355	90.10	ng	0.00
7) Phenol-d6	6.49	99	1220448	106.75	ng	0.00
23) Nitrobenzene-d5	7.42	82	679836	62.18	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	212735	83.27	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	1189930	67.21	ng	-0.02
78) Terphenyl-d14	12.96	244	782420	64.20	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.16	128	126433	4.11	ng	98
37) 2-Methylnaphthalene	8.84	142	100280	4.94	ng	96
48) Acenaphthylene	9.75	152	260256	10.15	ng	100
49) Dimethylphthalate	9.61	163	192865	10.42	ng	99
54) Dibenzofuran	10.09	168	63612	2.83	ng	# 93
70) Phenanthrene	11.39	178	420614	18.18	ng	99
71) Anthracene	11.44	178	228970	9.87	ng	99
72) Carbazole	11.60	167	73300	3.34	ng	98
74) Fluoranthene	12.58	202	925631	40.65	ng	98
77) Pyrene	12.81	202	901056	42.55	ng	99
79) Butylbenzylphthalate	13.43	149	52020	5.77	ng	# 70
80) Benzo(a)anthracene	14.00	228	527884m	30.76	ng	
82) Chrysene	14.03	228	528797	30.96	ng	97
85) Indeno(1,2,3-cd)pyrene	16.83	276	281909	19.97	ng	# 100
87) Benzo(b)fluoranthene	15.04	252	794228m	46.02	ng	
88) Benzo(k)fluoranthene	15.05	252	176925m	12.32	ng	
89) Benzo(a)pyrene	15.38	252	378773	26.11	ng	98
90) Dibenzo(a,h)anthracene	16.85	278	63709	5.16	ng	# 90
91) Benzo(a,h,i)perylene	17.26	276	255179	20.49	ng	99

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

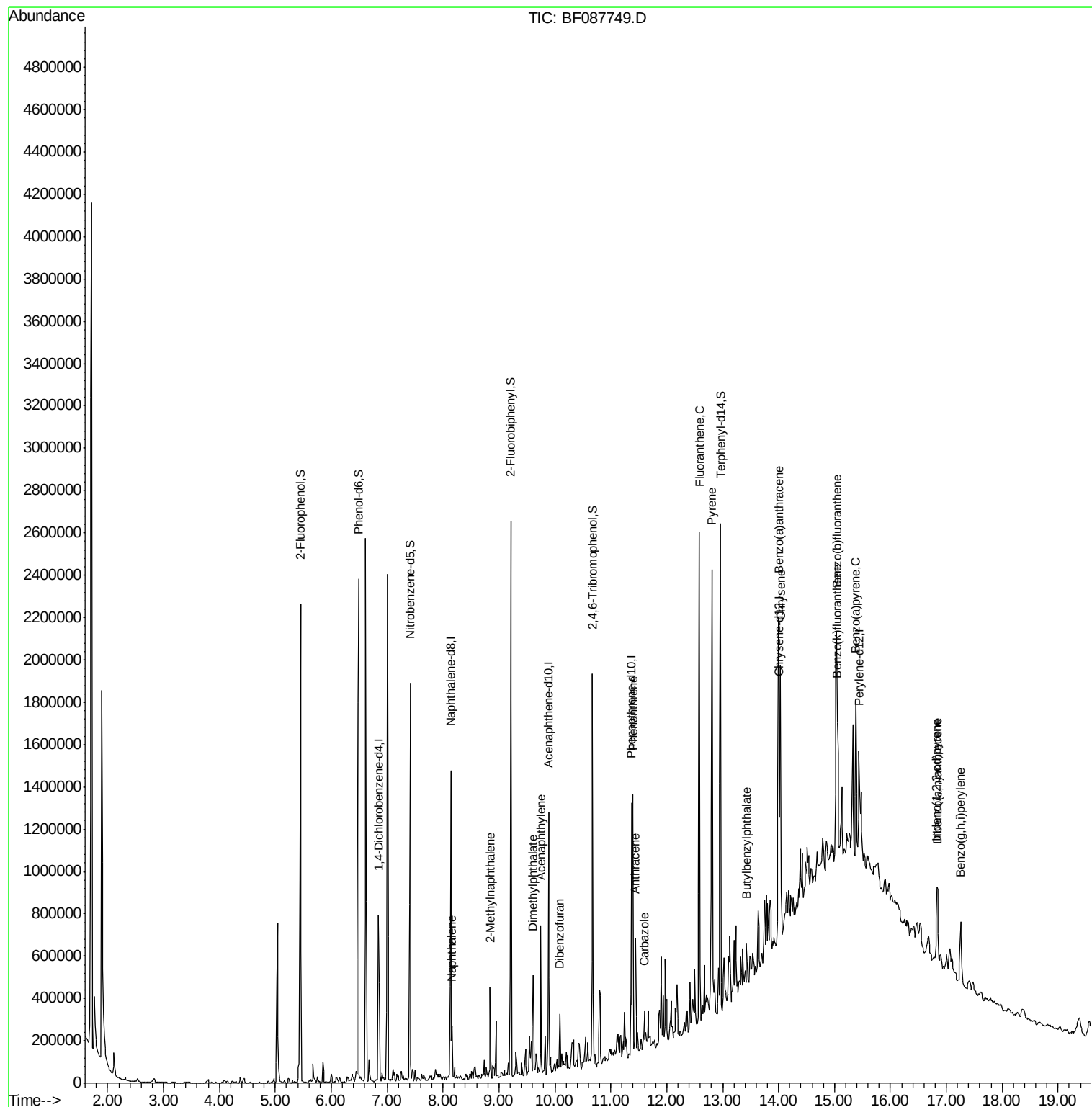
Data Path : Z:\HPCHEM1\BNA F\DATA\BF060616\
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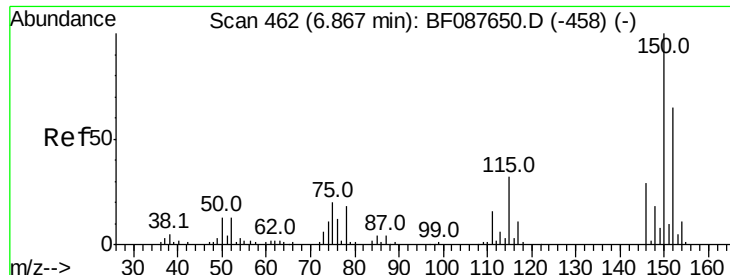
Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)

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QLast Update : Sat Jun 04 11:07:28 2016
Response via : Initial Calibration





#1

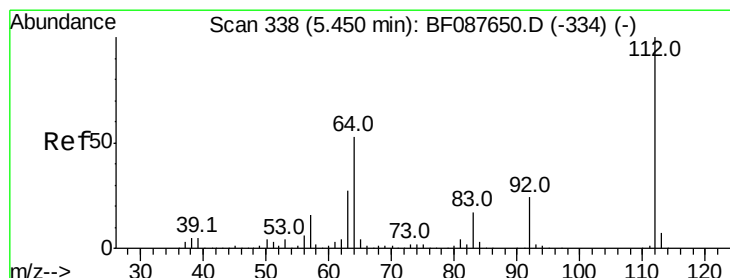
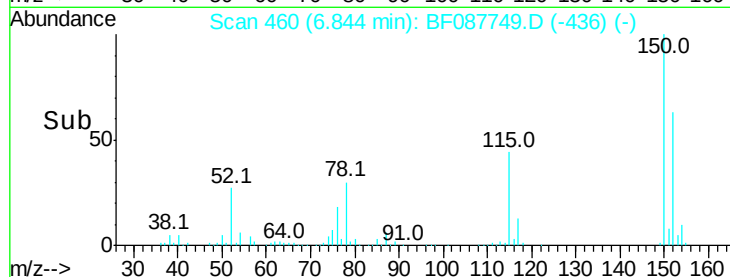
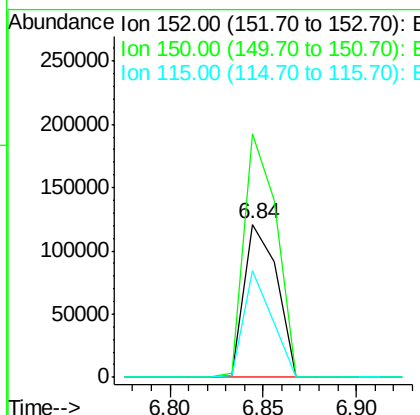
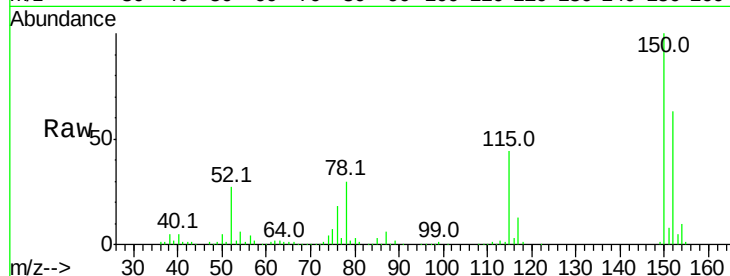
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.84 min Scan# 460
Delta R.T. -0.02 min
Lab File: BF087749.D
Acq: 6 Jun 2016 13:44

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	123.8	185.6
115	69.8	39.6	59.4

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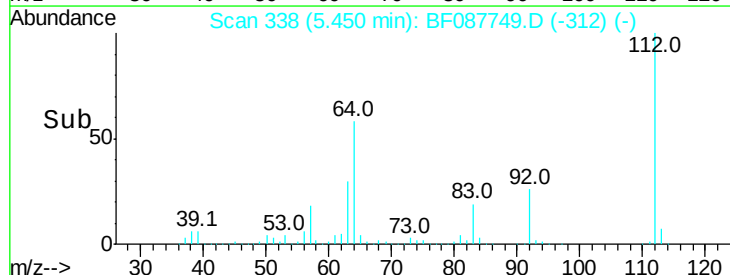
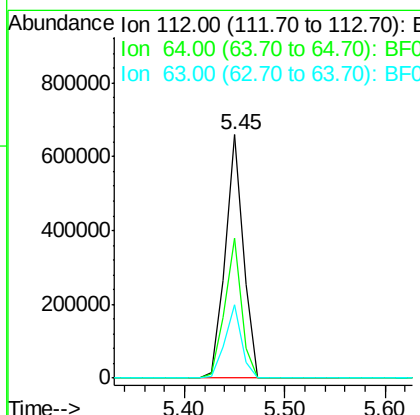
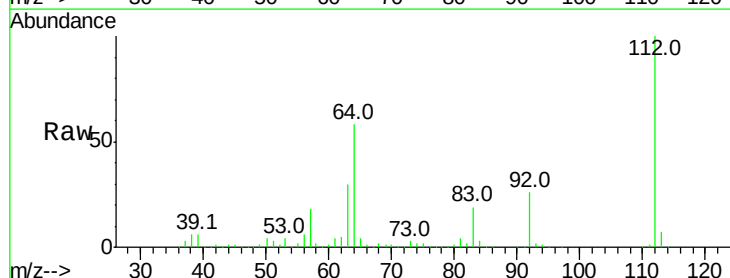
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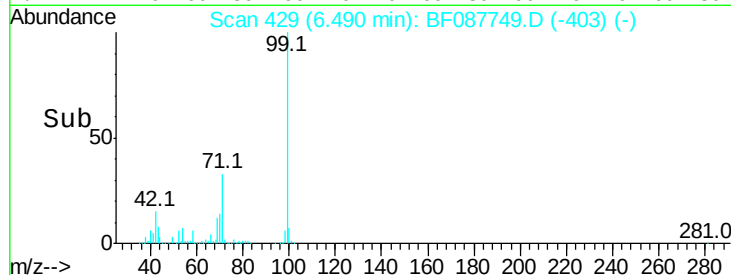
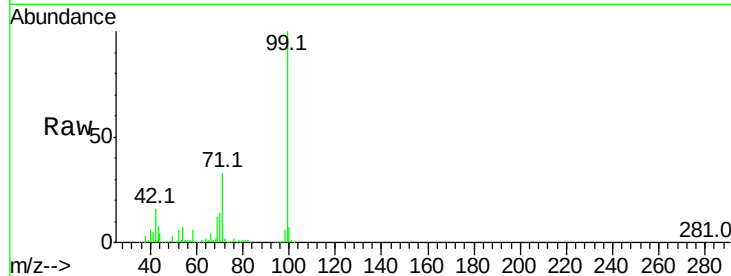
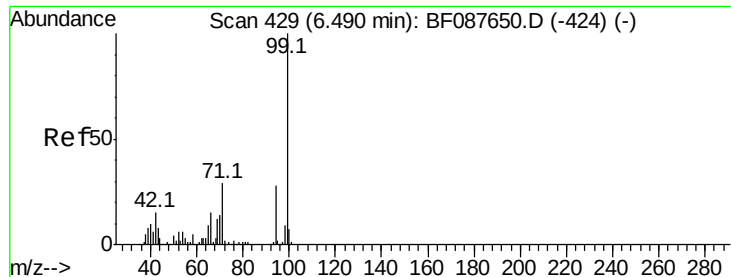


#5

2-Fluorophenol
Concen: 90.10 ng
RT: 5.45 min Scan# 338
Delta R.T. 0.00 min
Lab File: BF087749.D
Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	42.2	63.2
63	30.2	21.8	32.8





#7

Phenol-d6

Concen: 106.75 ng

RT: 6.49 min Scan# 429

Delta R.T. -0.00 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tot Ion: 99 Resp: 1220448

Ion Ratio Lower Upper

99 100

42 15.5 12.2 18.2

71 32.8 23.4 35.0

Instrument :

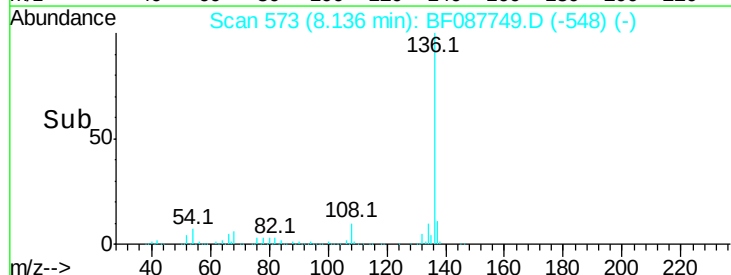
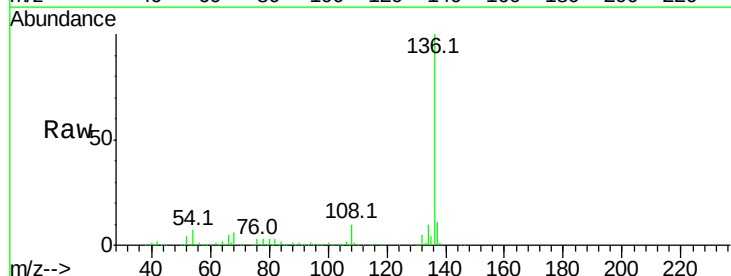
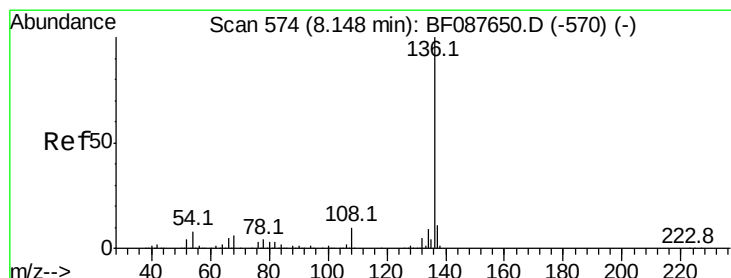
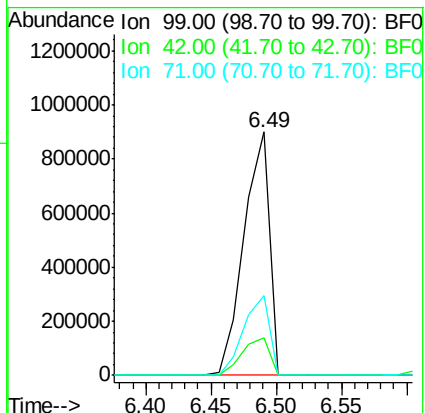
BNA_F

ClientSampleId :

GM-SP-(0-4)

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 573

Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion: 136 Resp: 632584

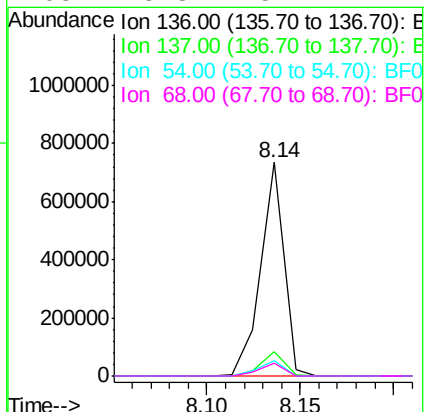
Ion Ratio Lower Upper

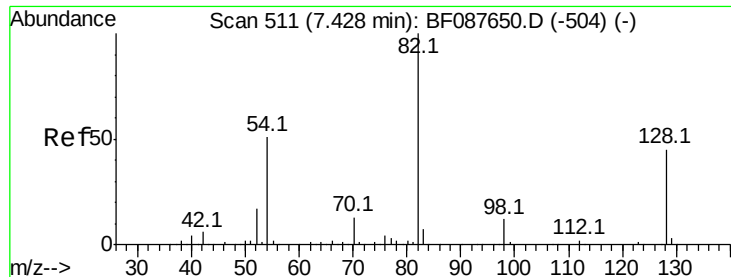
136 100

137 11.5 9.1 13.7

54 7.1 6.6 10.0

68 5.8 5.1 7.7





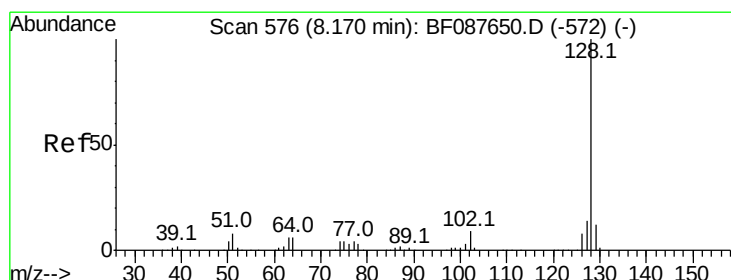
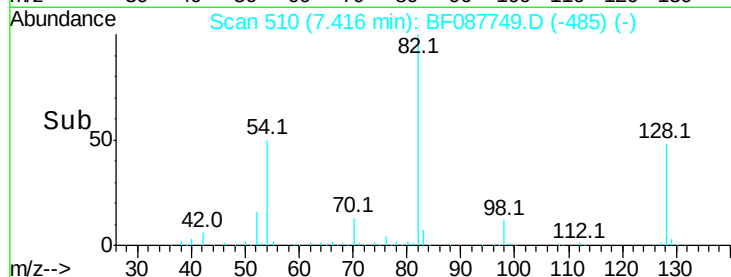
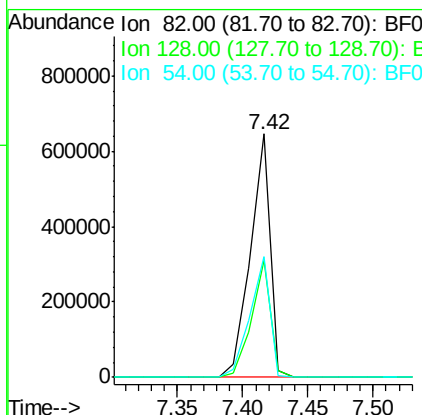
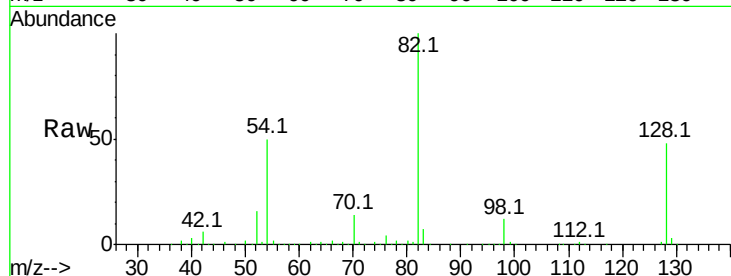
#23
 Nitrobenzene-d5
 Concen: 62.18 ng
 RT: 7.42 min Scan# 510
 Delta R.T. -0.01 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.1	35.9	53.9	
54	49.5	40.9	61.3	

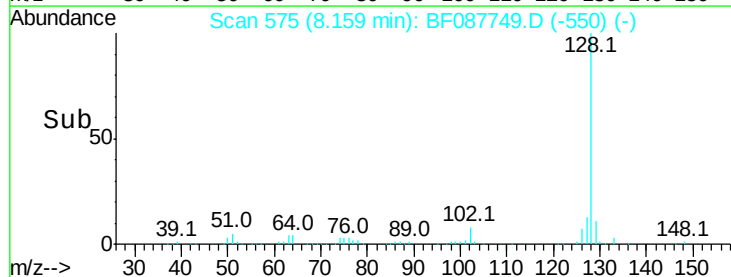
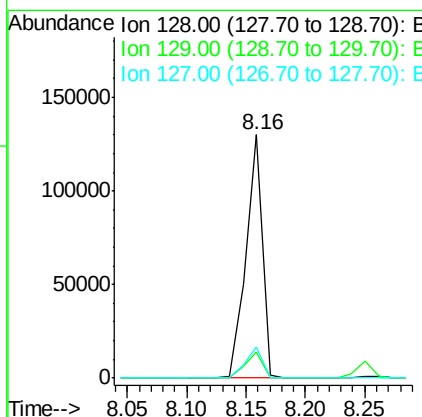
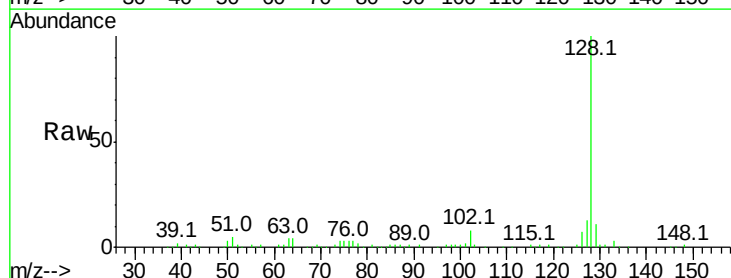
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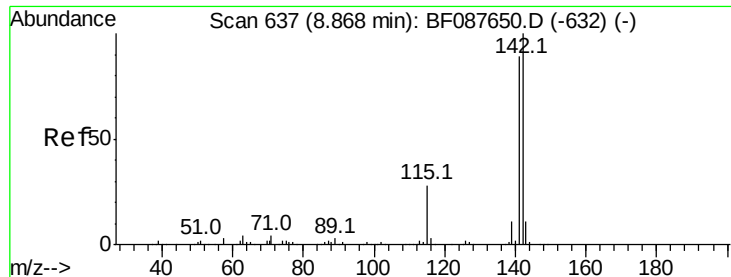
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#31
 Naphthalene
 Concen: 4.11 ng
 RT: 8.16 min Scan# 575
 Delta R.T. -0.01 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.8	9.4	14.2	
127	12.7	10.9	16.3	





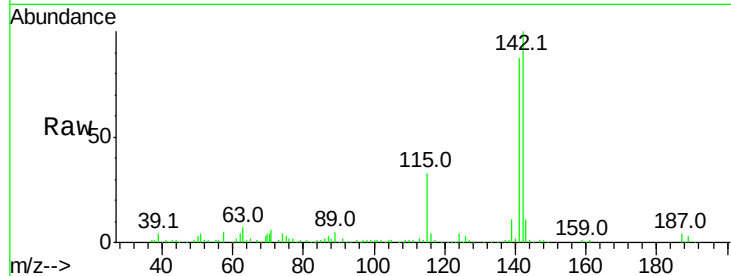
#37
2-Methylnaphthalene
Concen: 4.94 ng
RT: 8.84 min Scan# 635
Delta R.T. -0.02 min
Lab File: BF087749.D
Acq: 6 Jun 2016 13:44

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	71.0	106.6
115	33.2	22.6	33.8

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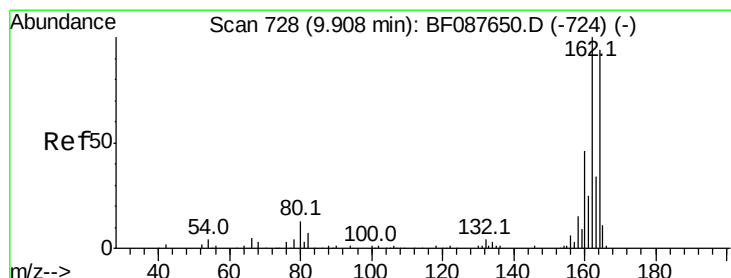
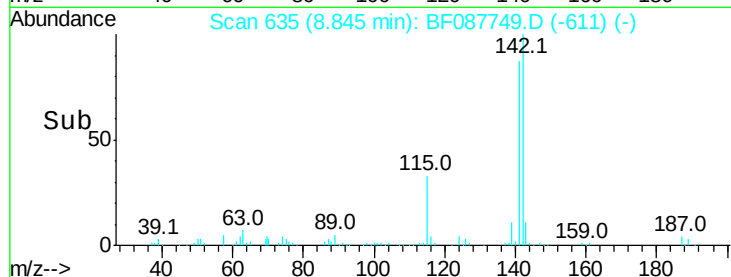
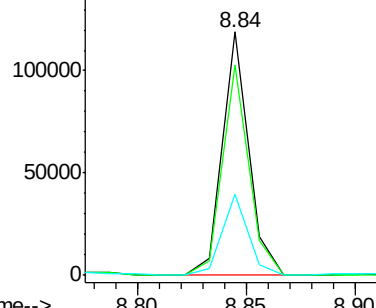


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 726
Delta R.T. -0.02 min
Lab File: BF087749.D
Acq: 6 Jun 2016 13:44

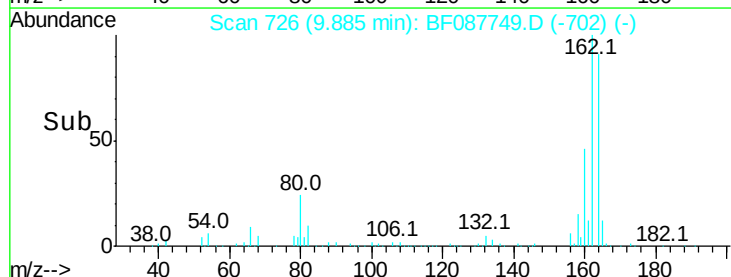
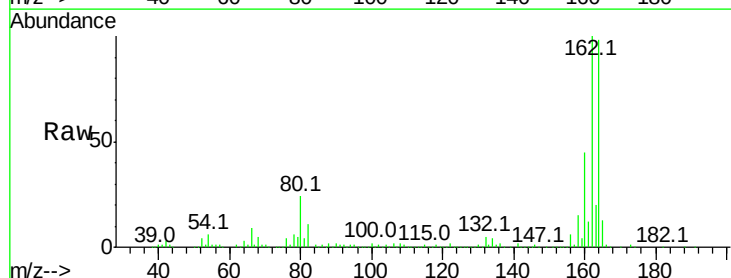
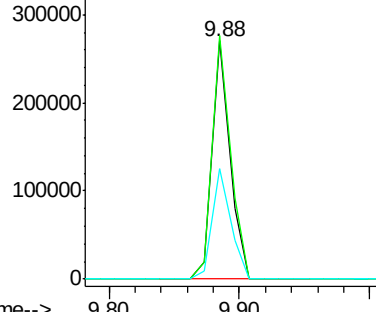
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	85.4	128.2
160	46.5	39.5	59.3

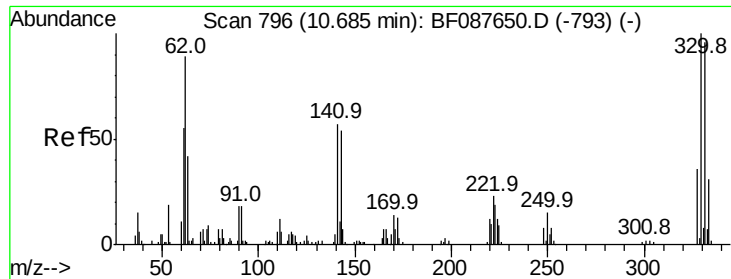
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





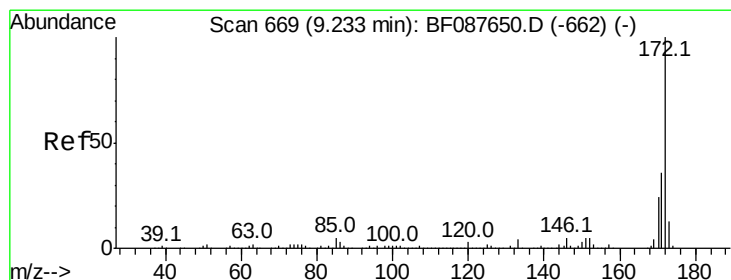
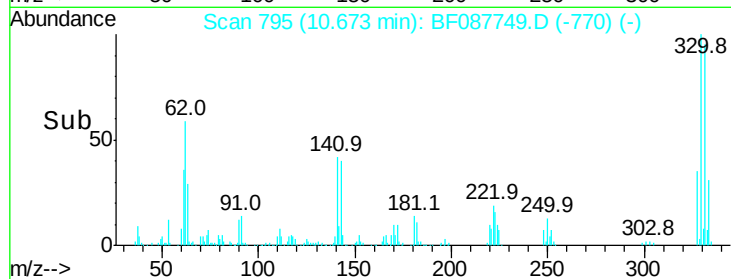
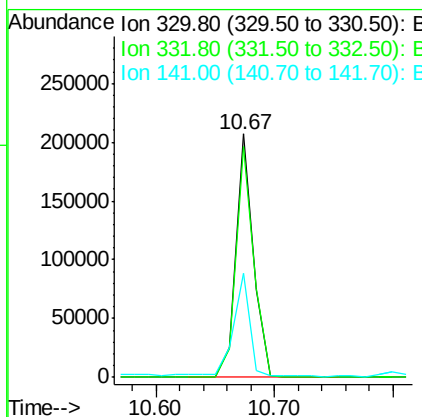
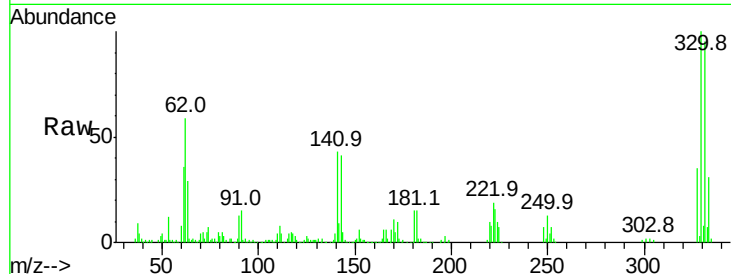
#41
 2,4,6-Tribromophenol
 Concen: 83.27 ng
 RT: 10.67 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	212735		
332	96.4	0.0	0.0	0.0
141	41.0	0.0	0.0	0.0

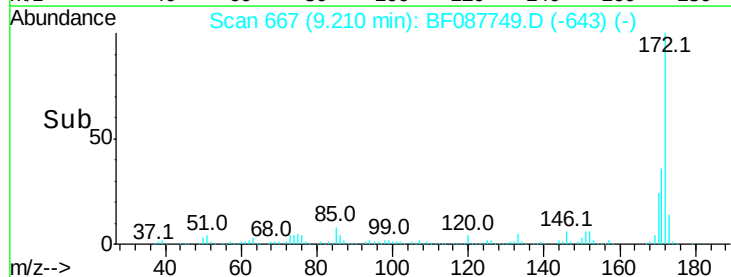
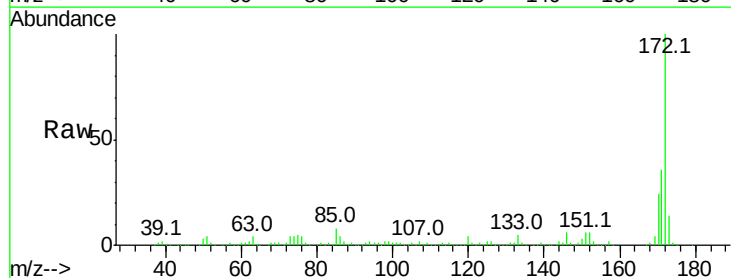
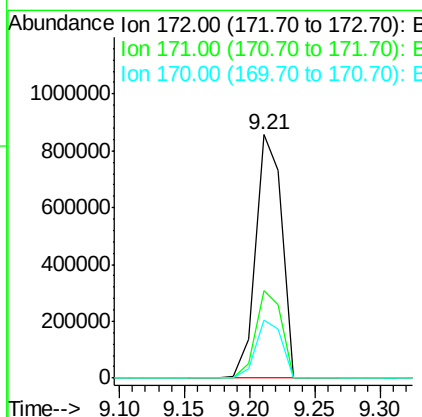
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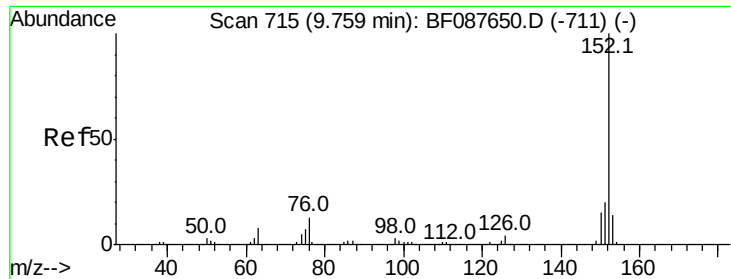
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#44
 2-Fluorobiphenyl
 Concen: 67.21 ng
 RT: 9.21 min Scan# 667
 Delta R.T. -0.02 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1189930		
171	35.9	28.6	43.0	
170	23.8	19.2	28.8	





#48

Acenaphthylene

Concen: 10.15 ng

RT: 9.75 min Scan# 714

Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

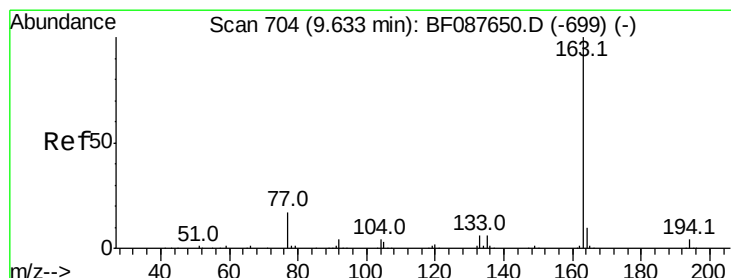
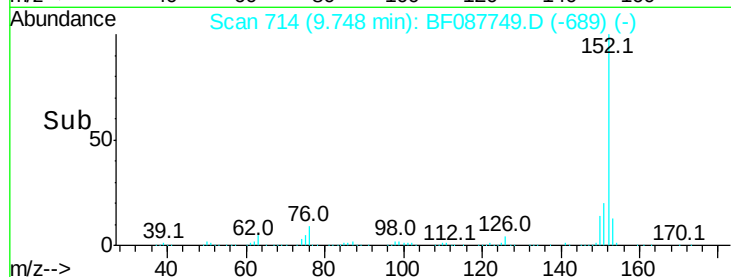
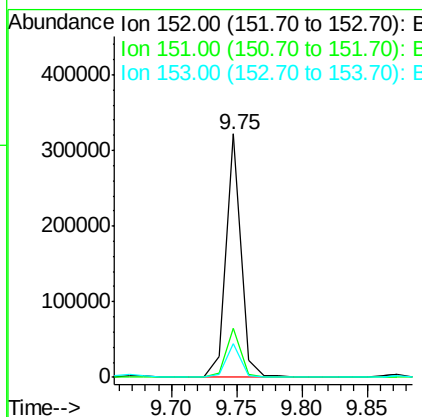
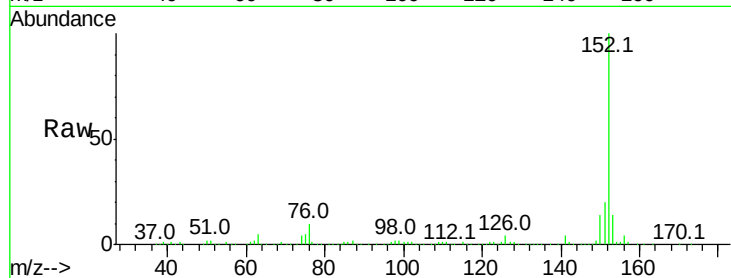
ClientSampleId :

GM-SP-(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	260256		
151	20.4		16.2	24.4
153	13.7		11.0	16.6

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#49

Dimethylphthalate

Concen: 10.42 ng

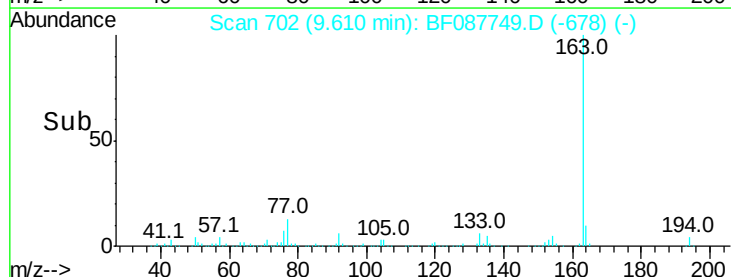
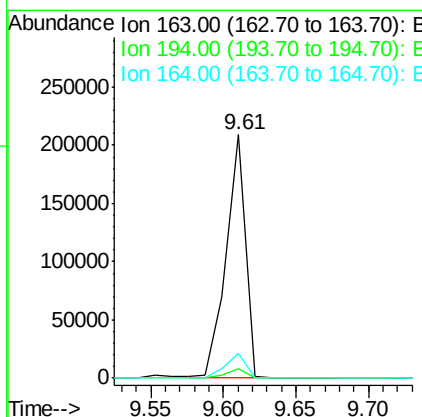
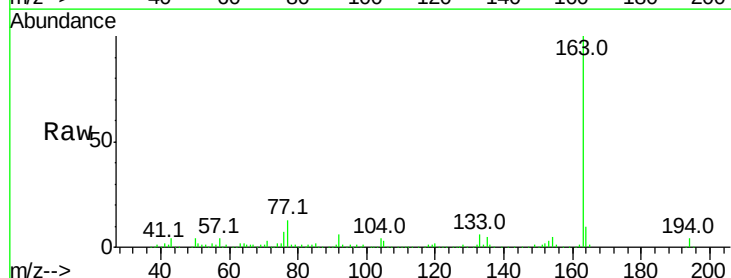
RT: 9.61 min Scan# 702

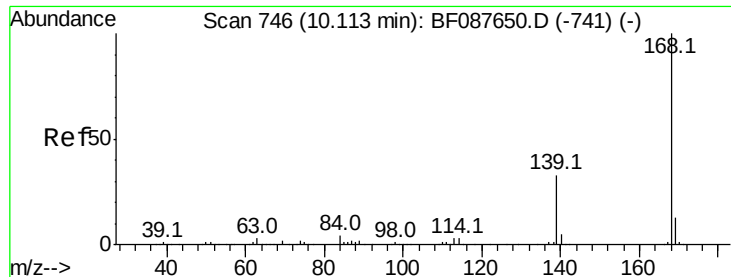
Delta R.T. -0.02 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	192865		
194	3.8		2.8	4.2
164	9.9		8.3	12.5





#54

Dibenzofuran

Concen: 2.83 ng

RT: 10.09 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF087749.D

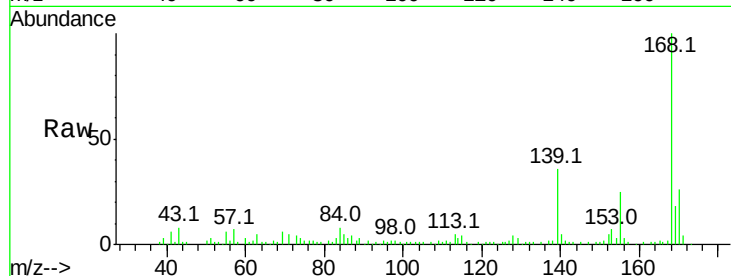
Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

ClientSampled :

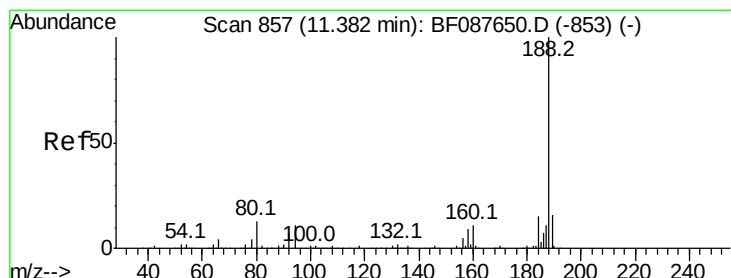
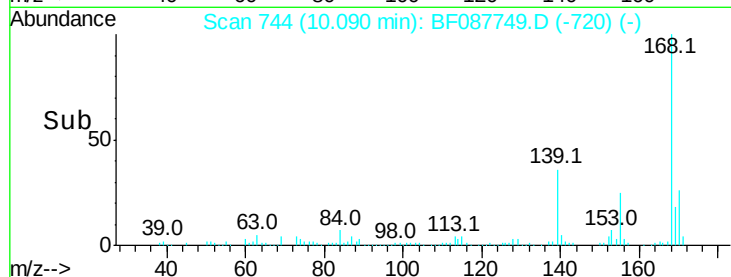
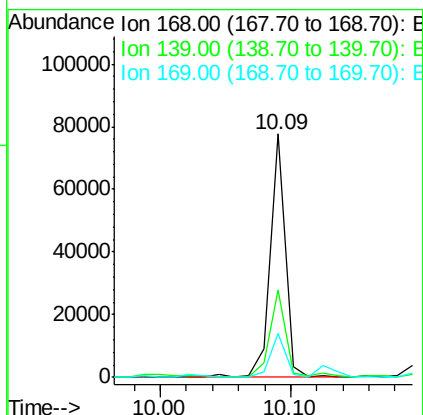
GM-SP-(0-4)



Tot Ion:	168	Resp:	63612
Ion Ratio	Lower	Upper	
168	100		
139	35.9	26.4	39.6
169	18.2	10.4	15.6

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#63

Phenanthrene-d10

Concen: 20.00 ng

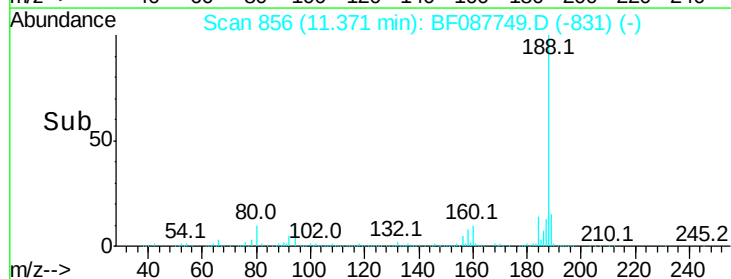
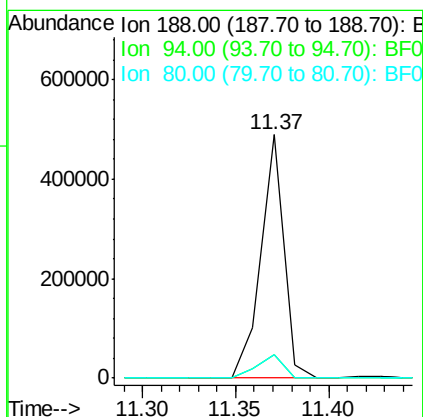
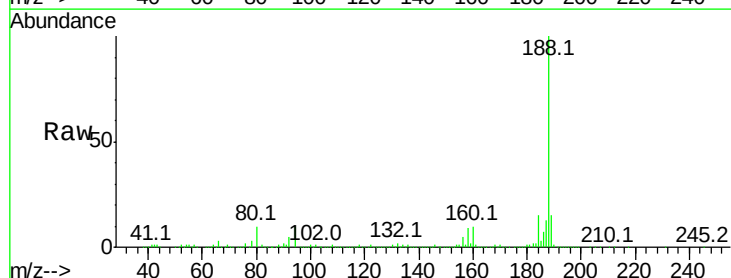
RT: 11.37 min Scan# 856

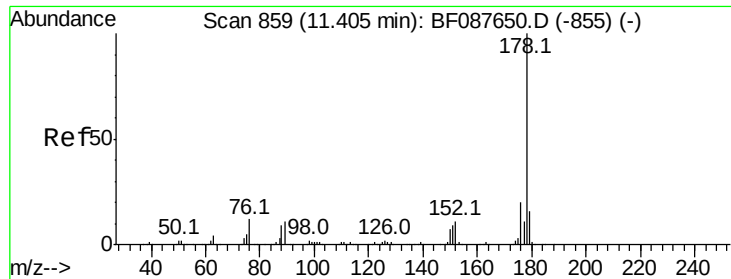
Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion:	188	Resp:	426815
Ion Ratio	Lower	Upper	
188	100		
94	9.5	9.0	13.6
80	9.7	10.0	15.0





#70

Phenanthrene

Concen: 18.18 ng

RT: 11.39 min Scan# 858

Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

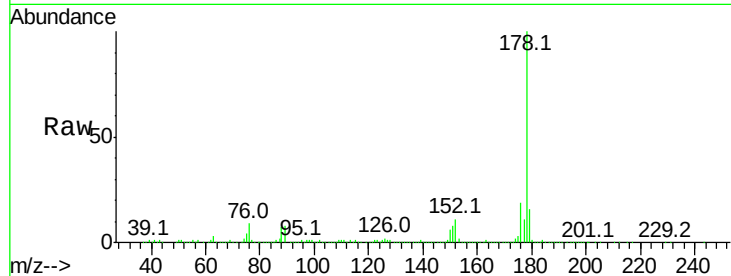
ClientSampleId :

GM-SP-(0-4)

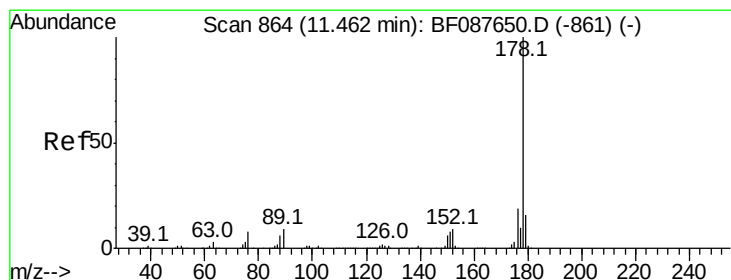
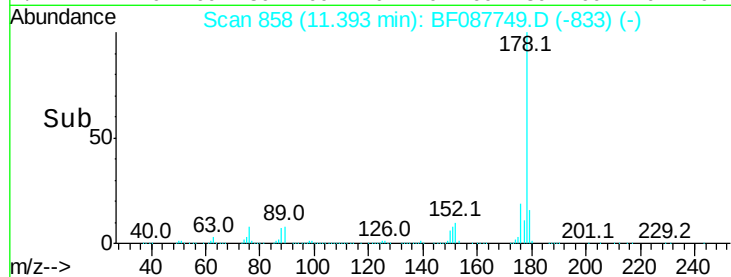
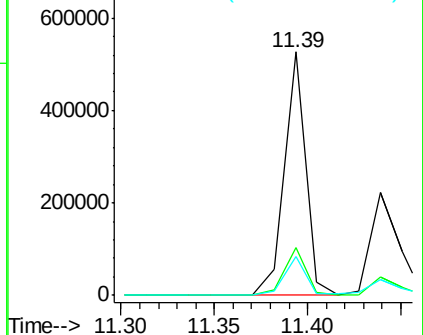
Tot Ion:	178	Resp:	420614
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.8	23.6
179	15.7	13.0	19.4

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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: 9.87 ng

RT: 11.44 min Scan# 862

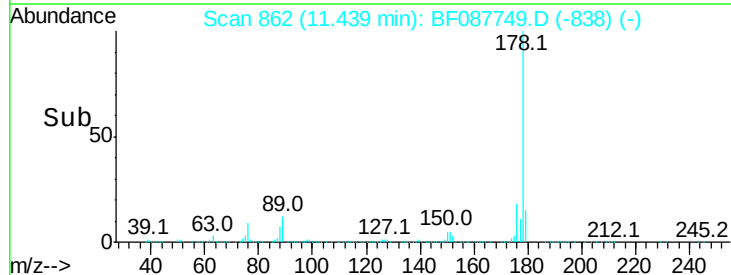
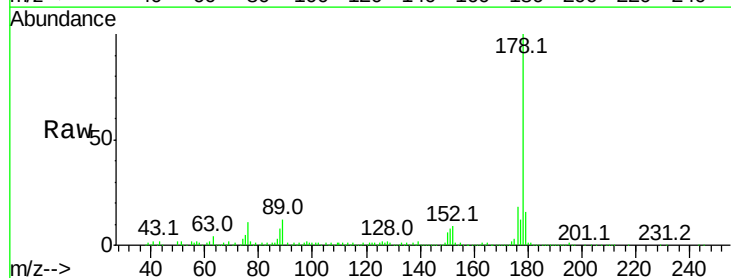
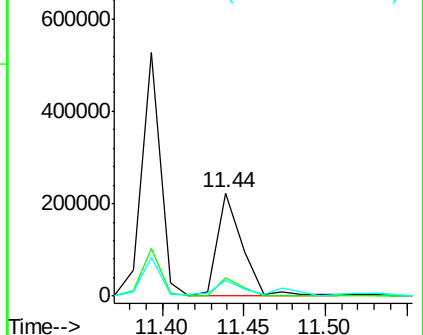
Delta R.T. -0.02 min

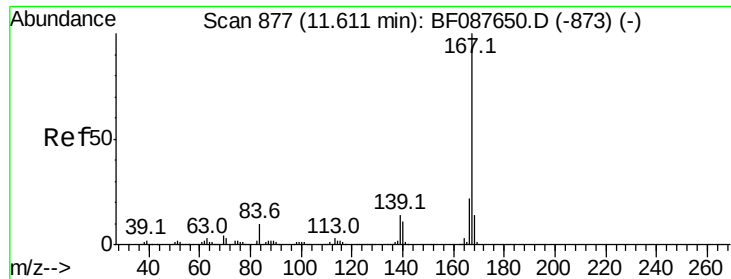
Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion:	178	Resp:	228970
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.6	23.4
179	15.9	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





#72

Carbazole

Concen: 3.34 ng

RT: 11.60 min Scan# 876

Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

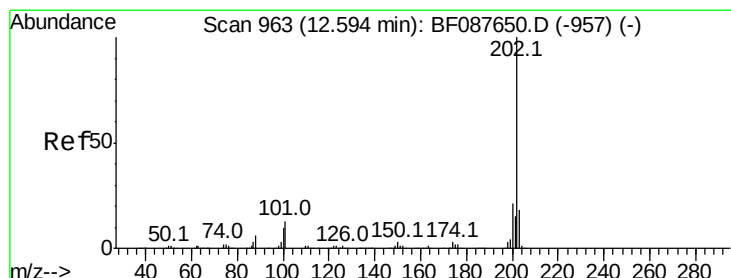
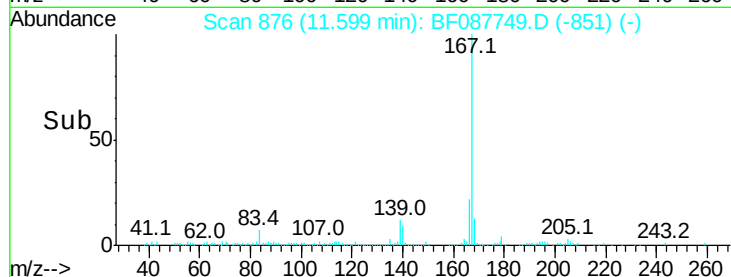
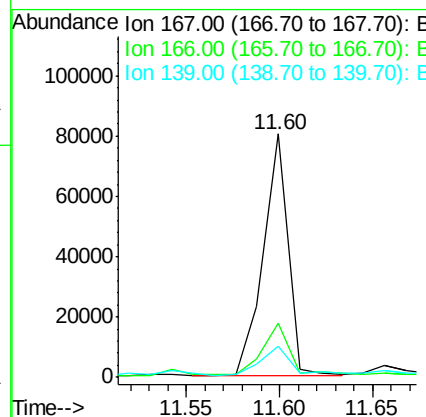
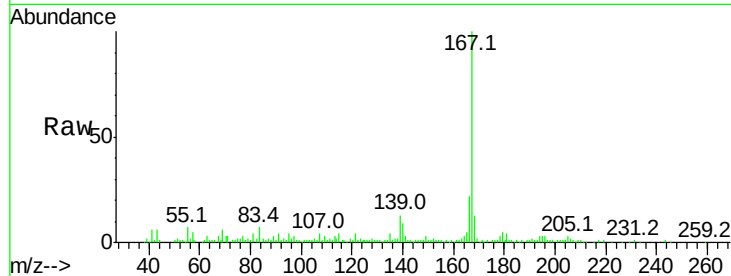
ClientSampleId :

GM-SP-(0-4)

Tot Ion:	167	Resp:	73300
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.8	26.6
139	12.7	11.2	16.8

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#74

Fluoranthene

Concen: 40.65 ng

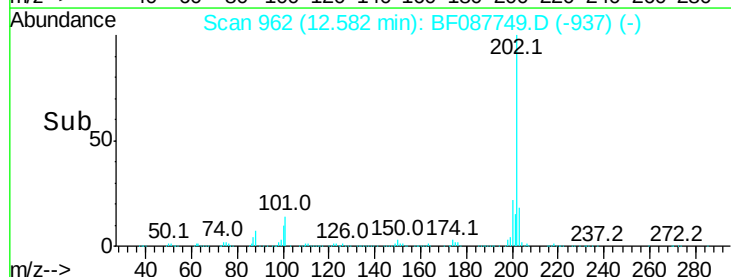
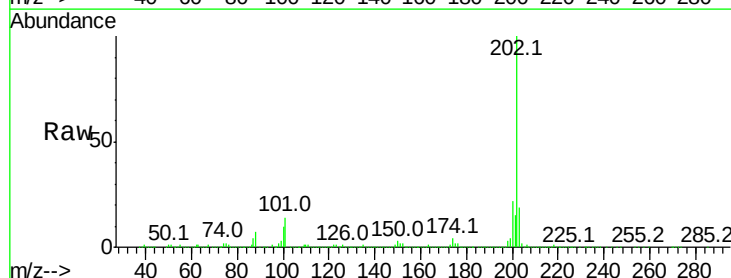
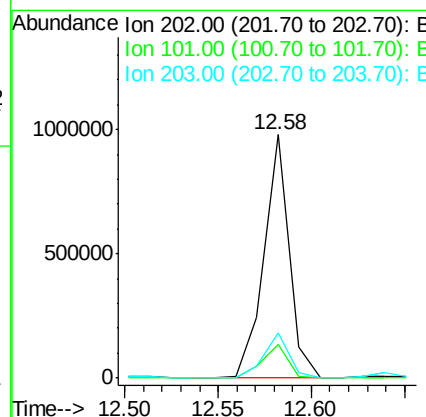
RT: 12.58 min Scan# 962

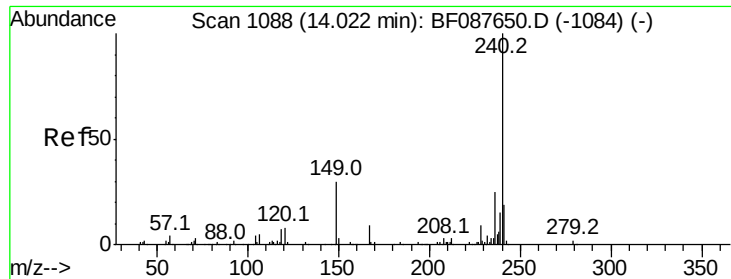
Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion:	202	Resp:	925631
Ion Ratio	Lower	Upper	
202	100		
101	14.0	0.0	33.1
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1087

Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

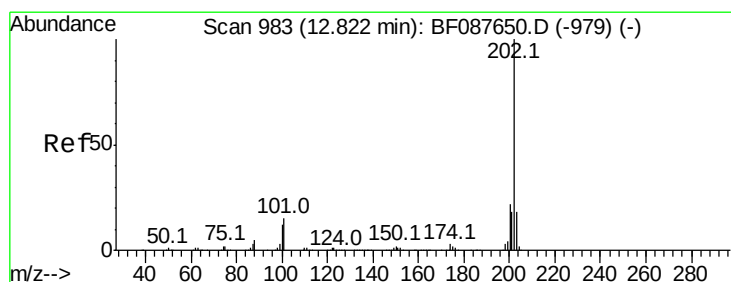
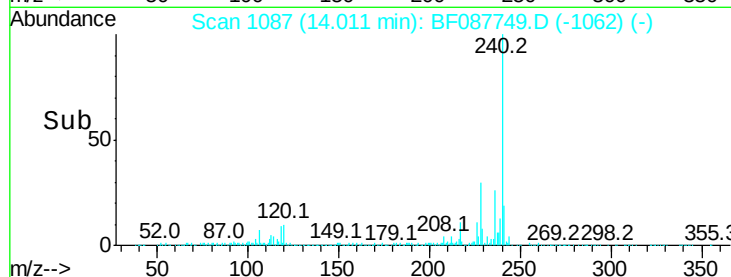
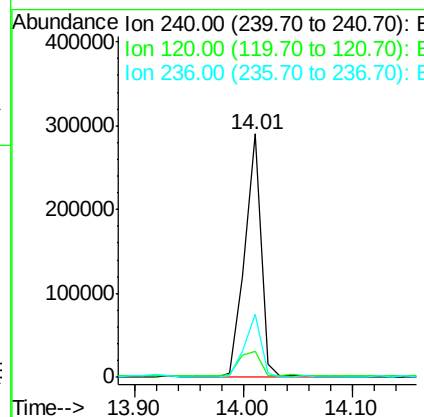
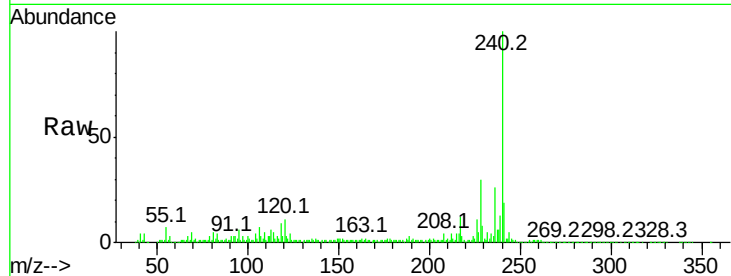
ClientSampleId :

GM-SP-(0-4)

Tot Ion:	240	Resp:	297364
Ion Ratio	Lower	Upper	
240	100		
120	10.8	6.8	10.2#
236	25.9	20.2	30.2

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#77

Pyrene

Concen: 42.55 ng

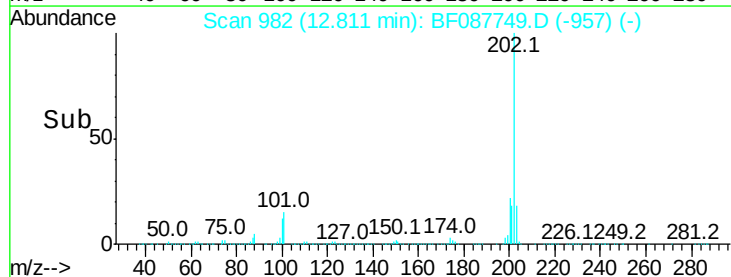
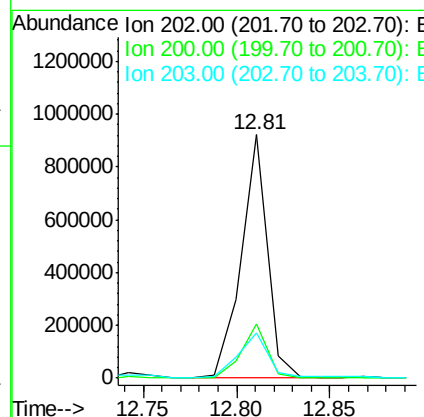
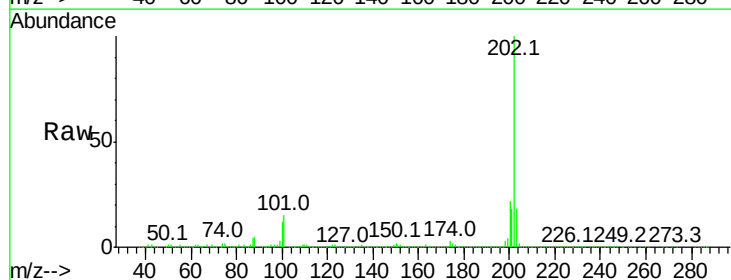
RT: 12.81 min Scan# 982

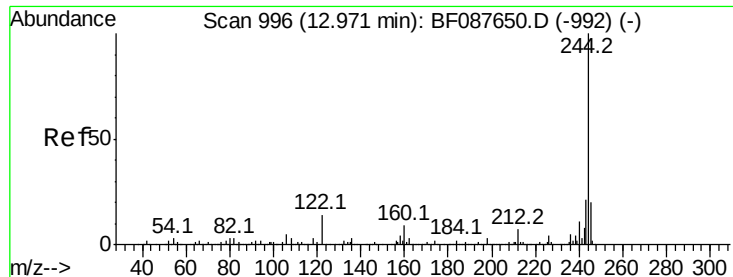
Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion:	202	Resp:	901056
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.4	26.2
203	18.4	14.5	21.7





#78

Terphenyl-d14

Concen: 64.20 ng

RT: 12.96 min Scan# 995

Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

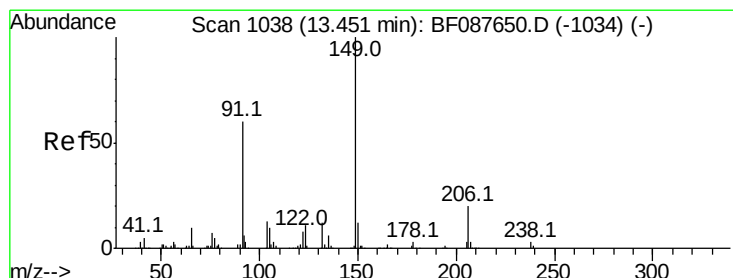
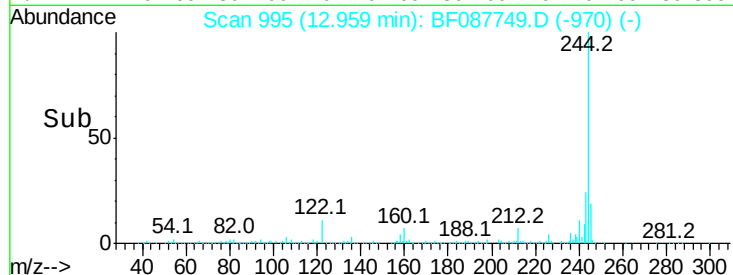
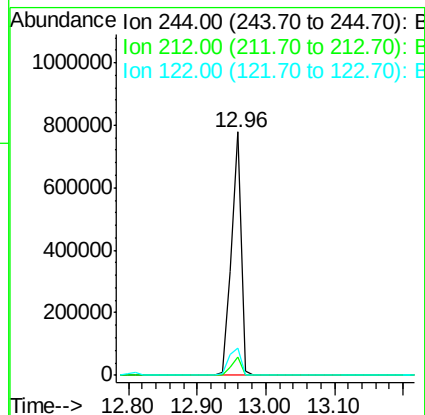
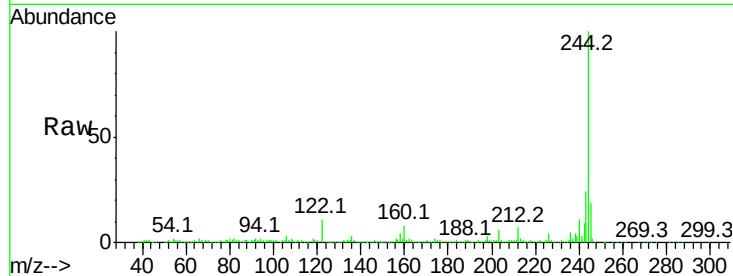
ClientSampled :

GM-SP-(0-4)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	11.1	11.2	16.8

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#79

Butylbenzylphthalate

Concen: 5.77 ng

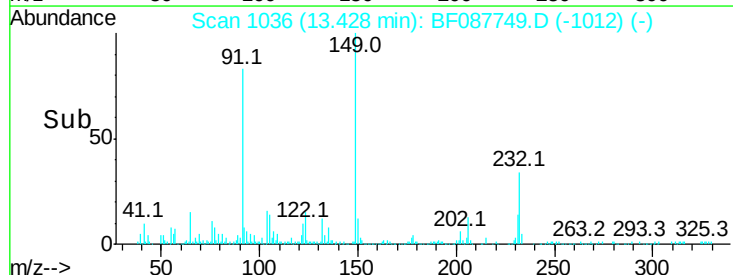
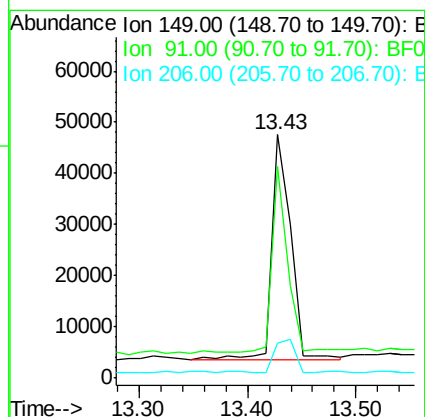
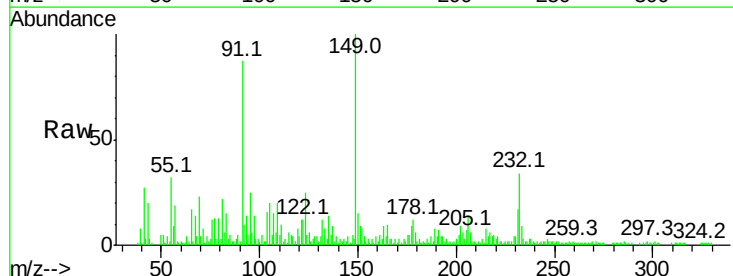
RT: 13.43 min Scan# 1036

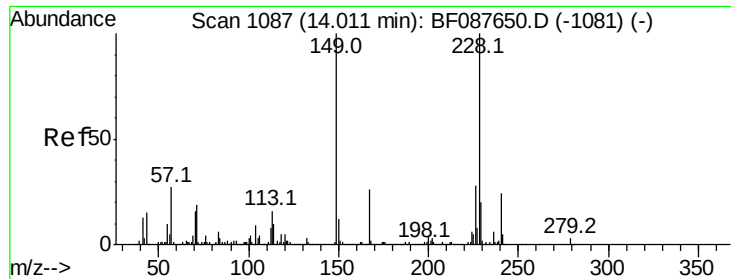
Delta R.T. -0.02 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Lower	Upper
149	100		
91	87.1	48.0	72.0
206	14.4	16.0	24.0





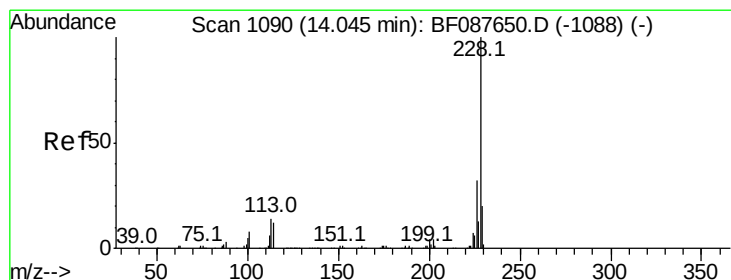
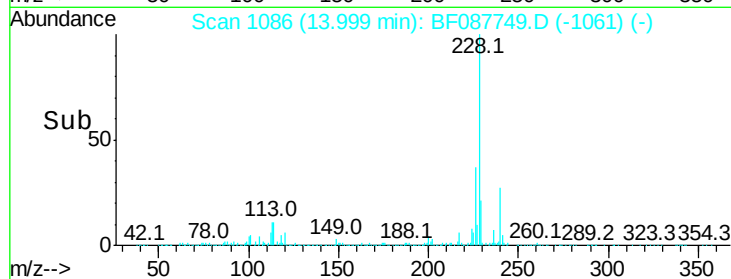
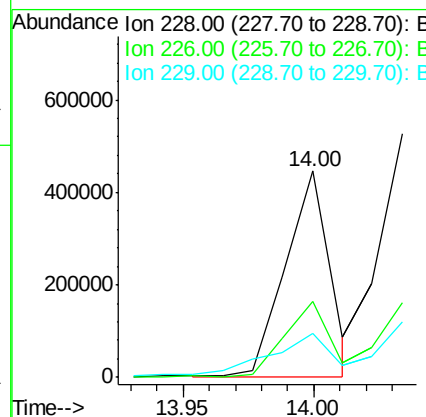
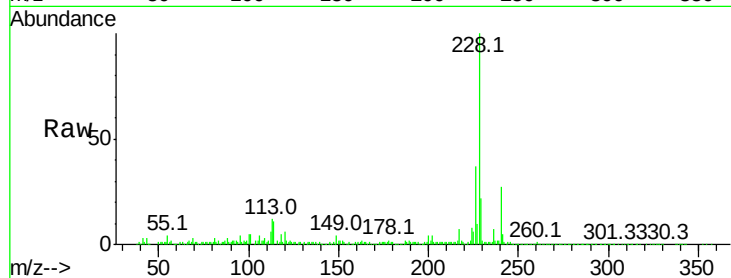
#80
Benzo(a)anthracene
Concen: 30.76 ng
RT: 14.00 min Scan# 1086
Delta R.T. -0.01 min
Lab File: BF087749.D
Acq: 6 Jun 2016 13:44

Instrument :
BNA_F
ClientSampleId :
GM-SP-(0-4)

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.9	22.3	33.5#
229	21.6	16.0	24.0

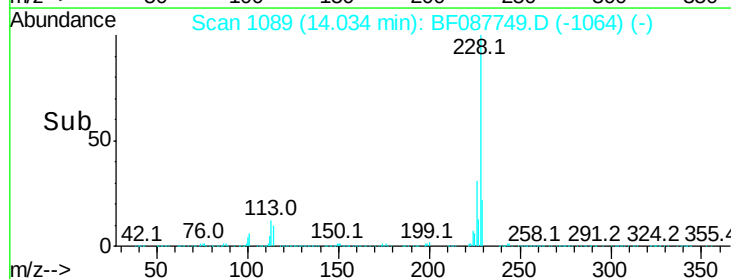
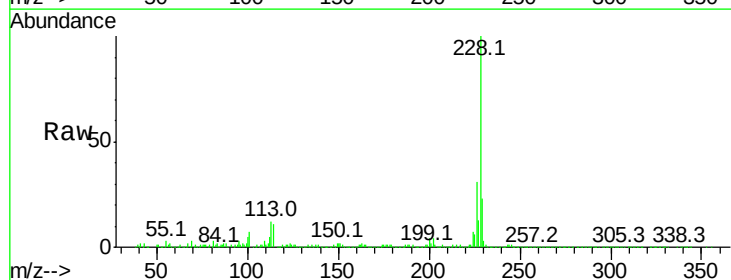
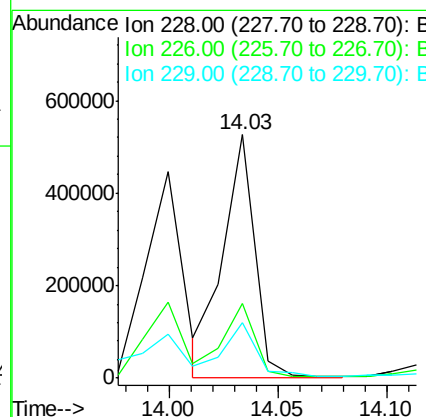
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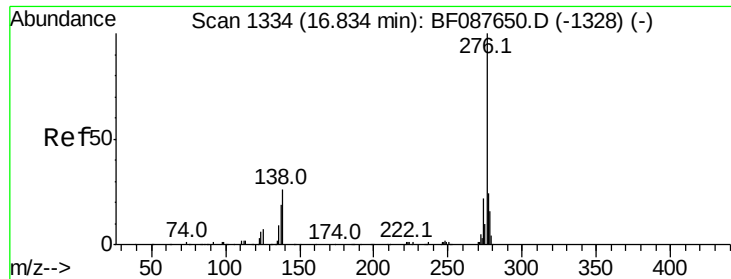
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#82
Chrysene
Concen: 30.96 ng
RT: 14.03 min Scan# 1089
Delta R.T. -0.01 min
Lab File: BF087749.D
Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.4	38.2
229	22.9	16.3	24.5





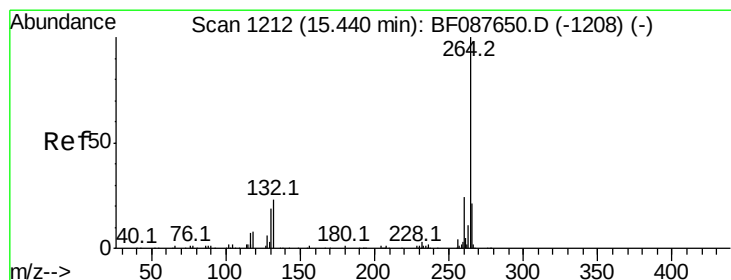
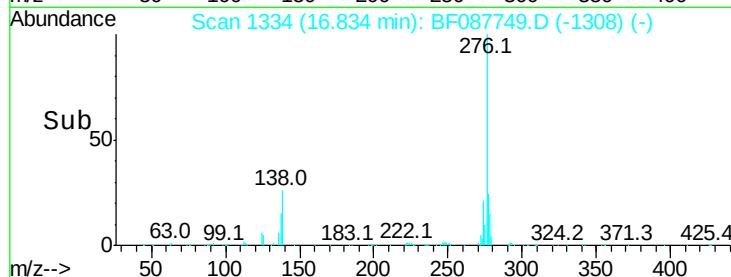
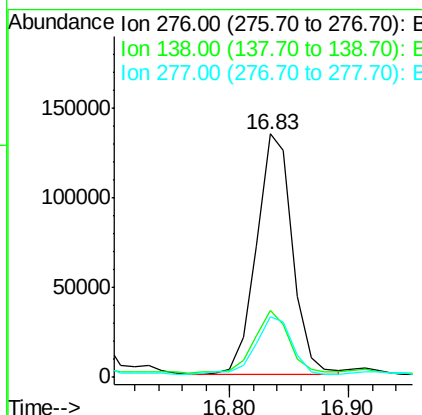
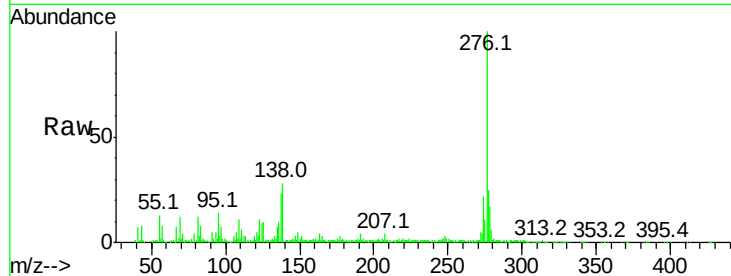
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.97 ng
 RT: 16.83 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)

Tot Ion	Ratio	Resp	Lower	Upper
276	100	281909		
138	24.5	0.0	0.0#	
277	24.8	0.0	0.0#	

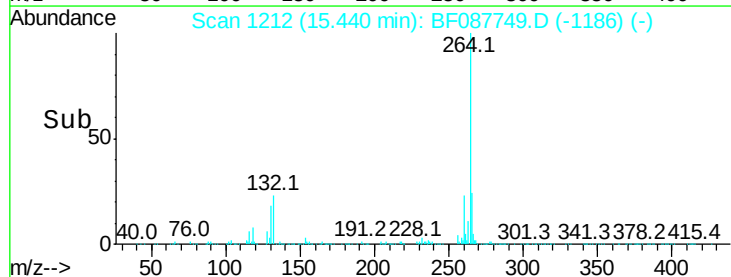
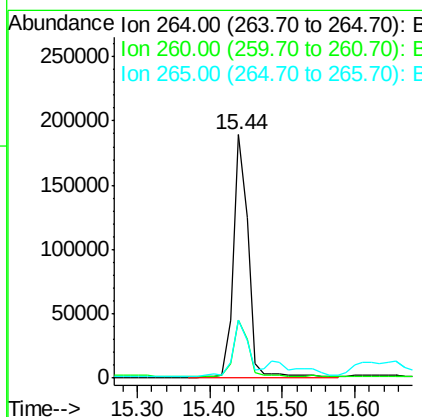
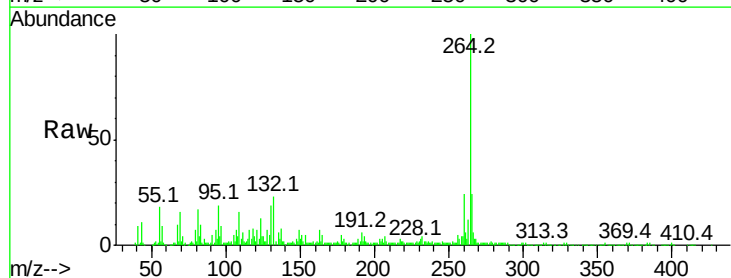
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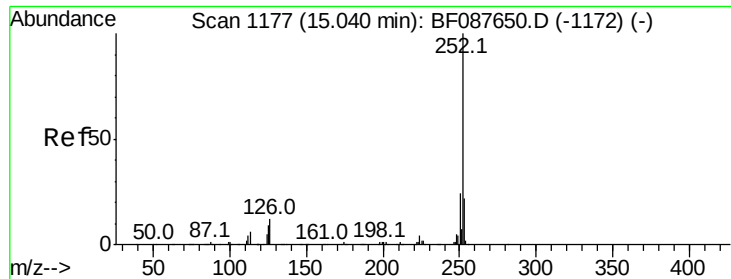
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.44 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	265286		
260	23.8	19.2	28.8	
265	24.0	16.9	25.3	





#87

Benzo(b)fluoranthene

Concen: 46.02 ng m

RT: 15.04 min Scan# 1177

Delta R.T. -0.00 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

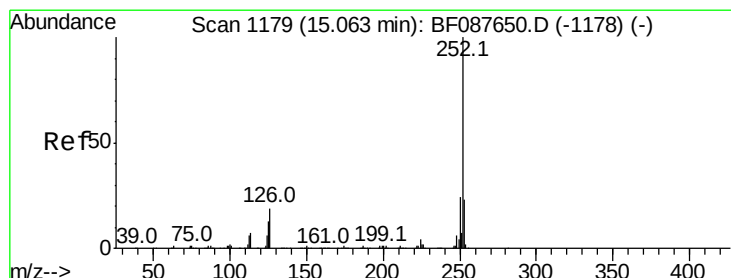
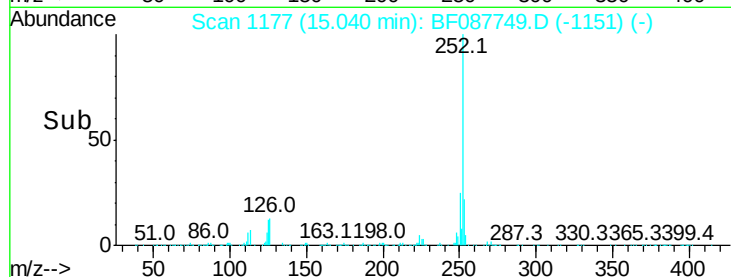
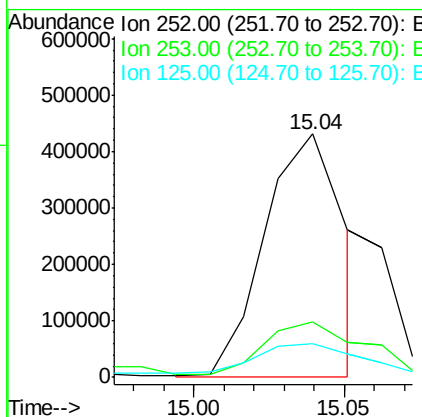
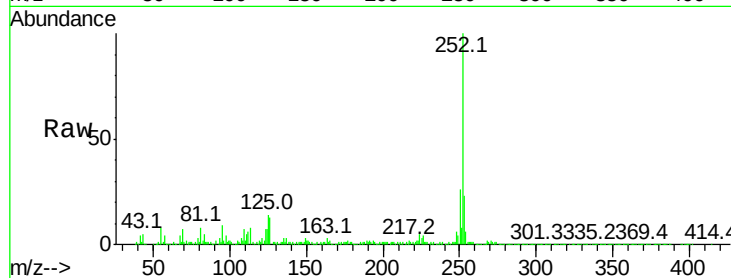
ClientSampleId :

GM-SP-(0-4)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	14.0	7.1	10.7

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#88

Benzo(k)fluoranthene

Concen: 12.32 ng m

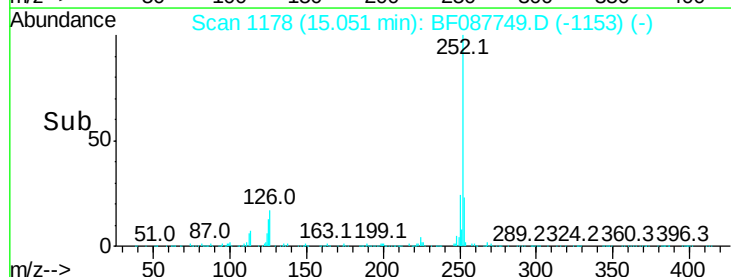
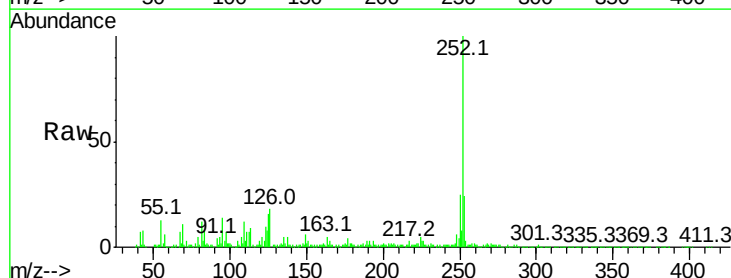
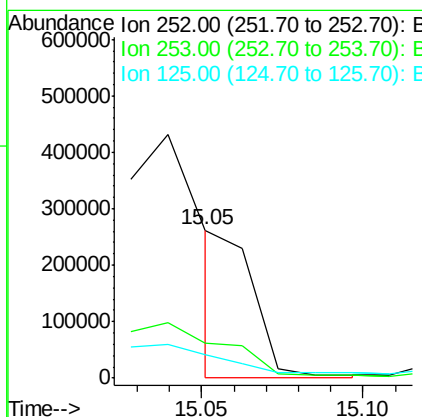
RT: 15.05 min Scan# 1178

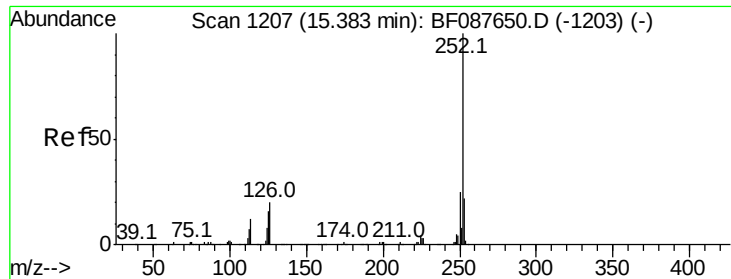
Delta R.T. -0.01 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.0	27.0
125	15.9	11.2	16.8





#89

Benzo(a)pyrene

Concen: 26.11 ng

RT: 15.38 min Scan# 1207

Delta R.T. -0.00 min

Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Instrument :

BNA_F

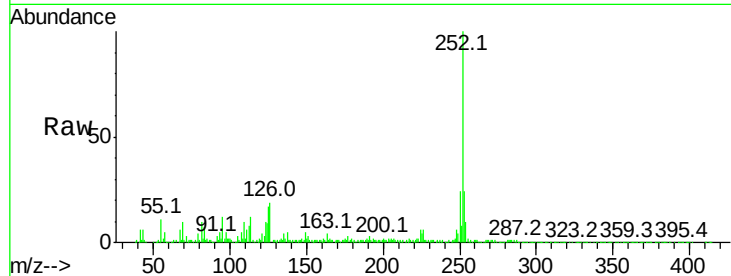
ClientSampleId :

GM-SP-(0-4)

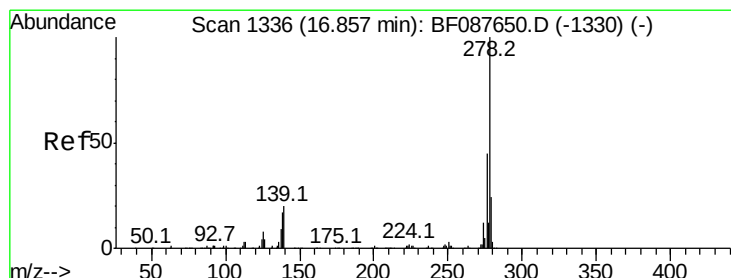
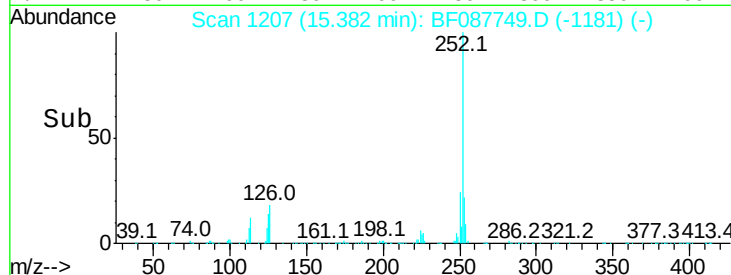
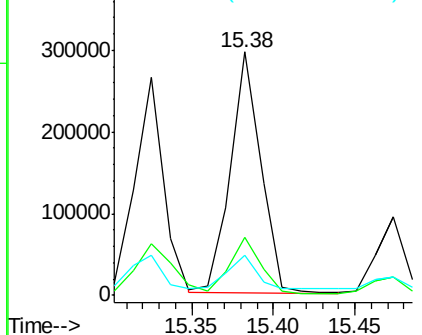
Tot Ion:	252	Resp:	378773
Ion Ratio		Lower	Upper
252	100		
253	23.7	17.9	26.9
125	16.6	12.5	18.7

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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



#90

Dibenzo(a,h)anthracene

Concen: 5.16 ng

RT: 16.85 min Scan# 1335

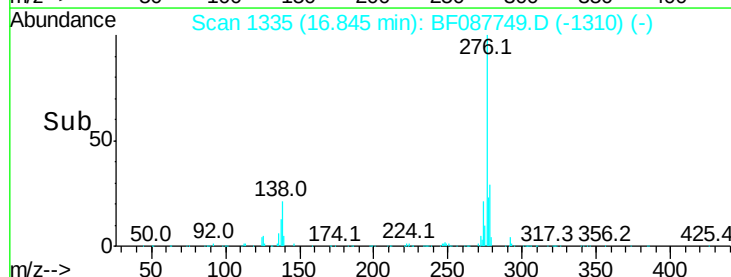
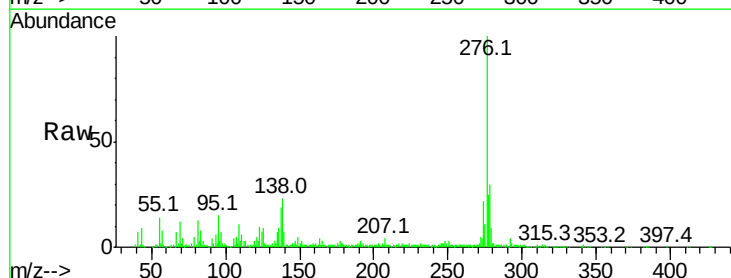
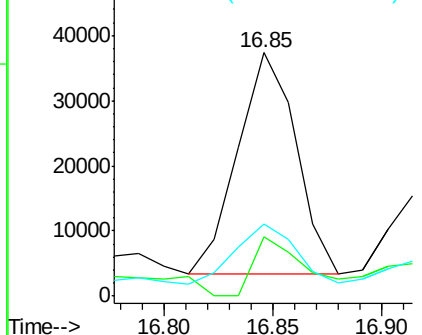
Delta R.T. -0.01 min

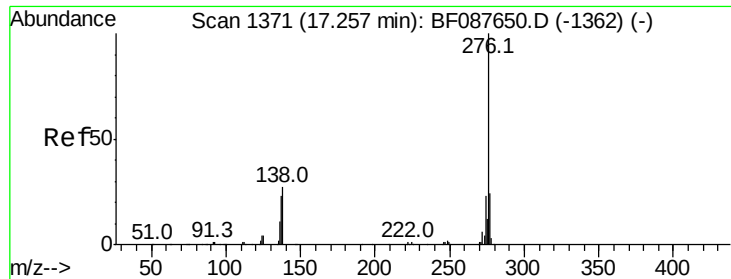
Lab File: BF087749.D

Acq: 6 Jun 2016 13:44

Tgt Ion:	278	Resp:	63709
Ion Ratio		Lower	Upper
278	100		
139	24.2	15.7	23.5#
279	29.4	19.4	29.2#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 20.49 ng
 RT: 17.26 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: BF087749.D
 Acq: 6 Jun 2016 13:44

Instrument :
 BNA_F
 ClientSampleId :
 GM-SP-(0-4)

Tot Ion:	276	Resp:	255179
Ion Ratio	Lower	Upper	
276	100		
277	23.5	18.9	28.3
138	25.6	21.4	32.2

Manual Integrations
 APPROVED

umangi
 6/6/2016 7:29:50 PM

