

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
 Data File : BF087077.D
 Acq On : 16 May 2016 13:14
 Operator : UM/SJ
 Sample : H3057-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-10(8.5-9)

Manual Integrations
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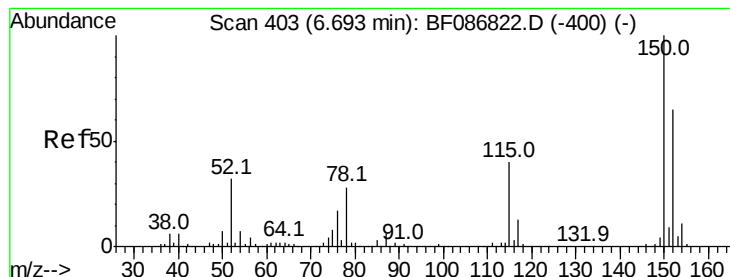
Quant Time: May 17 12:33:49 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 01:12:04 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	161540	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	634431	20.00	ng	0.00
38) Acenaphthene-d10	9.64	164	265367	20.00	ng	0.00
63) Phenanthrene-d10	11.13	188	382320	20.00	ng	0.01
75) Chrysene-d12	13.78	240	265427	20.00	ng	0.02
86) Perylene-d12	15.14	264	315586	20.00	ng	0.03

System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	946748	99.25	ng	0.00
7) Phenol-d6	6.27	99	1241804	97.41	ng	-0.01
23) Nitrobenzene-d5	7.18	82	858209	67.92	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	238110	84.76	ng	0.00
44) 2-Fluorobiphenyl	8.97	172	1100881	69.72	ng	-0.01
78) Terphenyl-d14	12.71	244	715431	57.19	ng	0.00

Target Compounds						Qvalue
31) Naphthalene	7.92	128	1276287	40.16	ng	99
37) 2-Methylnaphthalene	8.60	142	519929m	27.99	ng	
45) 1,1'-Biphenyl	9.07	154	245337	11.62	ng	98
49) Dimethylphthalate	9.38	163	269218	13.30	ng	99
51) Acenaphthene	9.68	154	896445	59.25	ng	98
54) Dibenzofuran	9.85	168	1133632	58.37	ng	92
57) Fluorene	10.19	166	1178660	71.16	ng	99
70) Phenanthrene	11.18	178	7456264	365.45	ng	95
71) Anthracene	11.22	178	2915210	139.71	ng	97
72) Carbazole	11.37	167	832774	46.43	ng	99
74) Fluoranthene	12.37	202	6749928	321.66	ng	95
77) Pyrene	12.59	202	5946923m	292.65	ng	
80) Benzo(a)anthracene	13.77	228	3624208	243.23	ng	97
82) Chrysene	13.81	228	2394303m	157.97	ng	
85) Indeno(1,2,3-cd)pyrene	16.41	276	1463414	116.04	ng	# 92
87) Benzo(b)fluoranthene	14.78	252	3417896m	166.64	ng	
88) Benzo(k)fluoranthene	14.79	252	1063941m	63.35	ng	
89) Benzo(a)pyrene	15.10	252	2484707	140.45	ng	95
90) Dibenzo(a,h)anthracene	16.40	278	285173m	19.13	ng	
91) Benzo(a,h,i)perylene	16.79	276	1311545	86.57	ng	# 92

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



#1

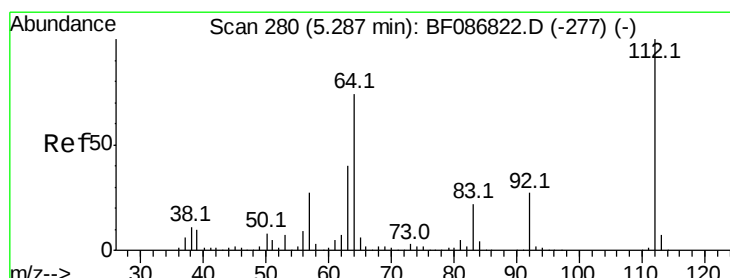
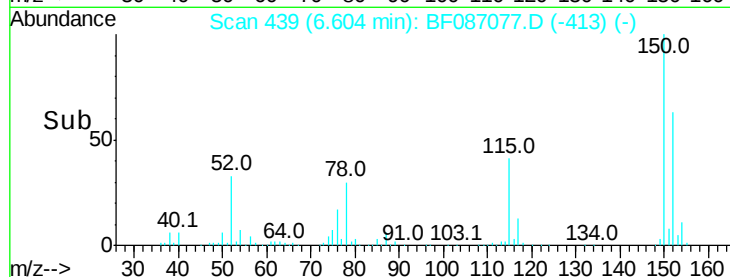
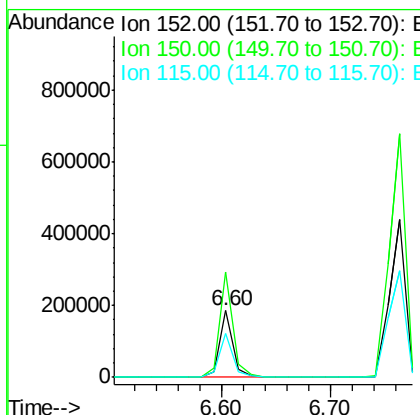
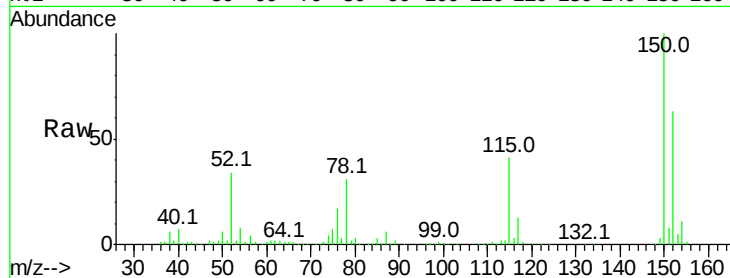
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. -0.00 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Instrument :
BNA_F
ClientSampleId :
E-10(8.5-9)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	125.8	188.6
115	65.0	51.5	77.3

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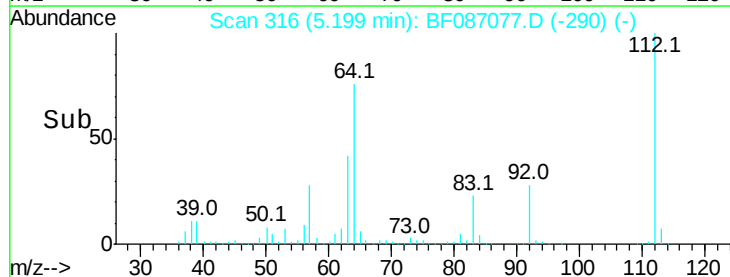
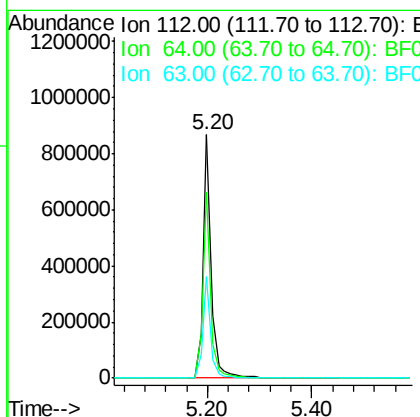
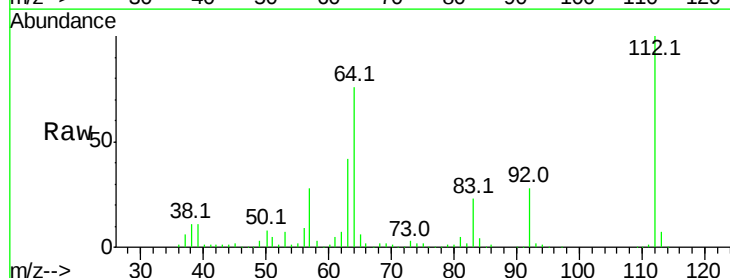
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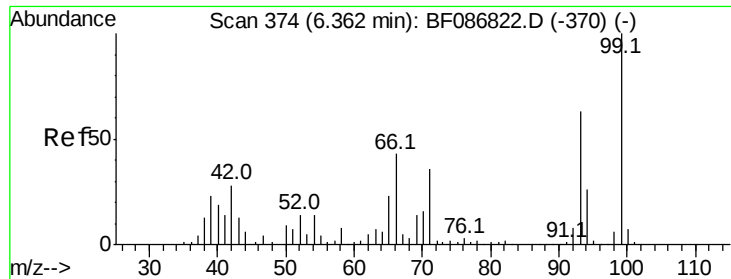


#5

2-Fluorophenol
Concen: 99.25 ng
RT: 5.20 min Scan# 316
Delta R.T. -0.00 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	76.4	52.1	78.1
63	41.6	25.7	38.5





#7

Phenol-d6

Concen: 97.41 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

ClientSampleId :

E-10(8.5-9)

Tot Ion: 99 Resp: 1241804

Ion Ratio Lower Upper

99 100

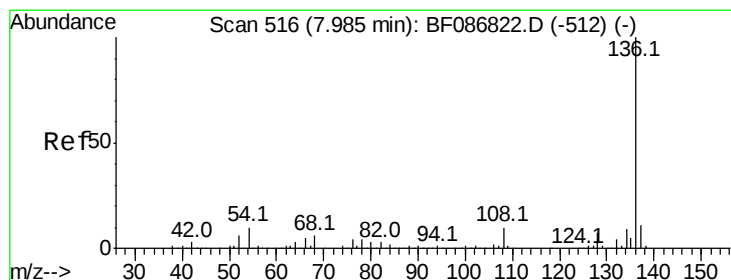
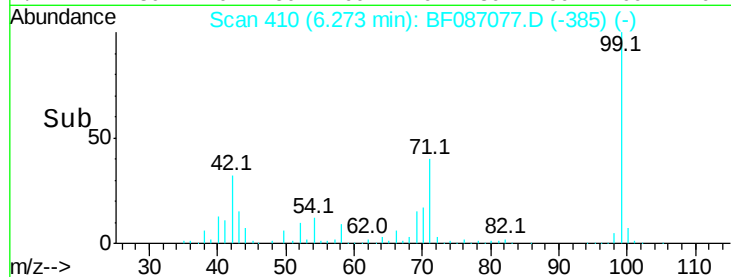
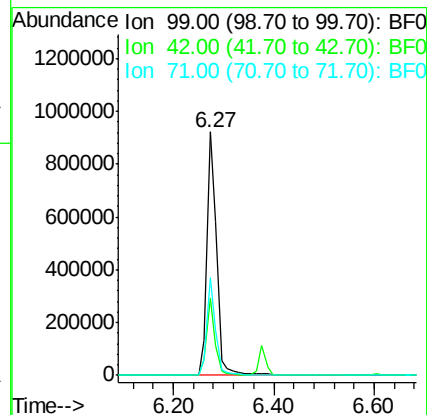
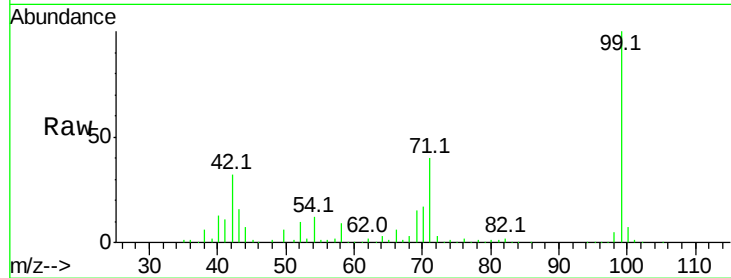
42 31.8 13.6 20.4#

71 40.3 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. 0.00 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Tgt Ion: 136 Resp: 634431

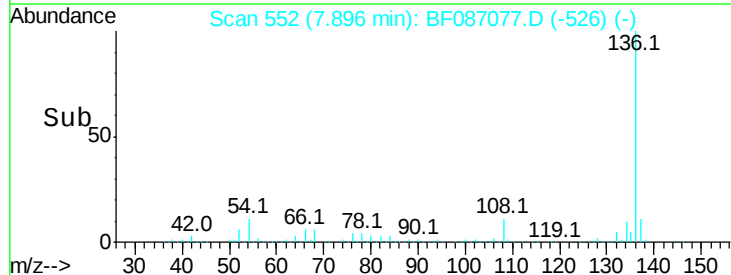
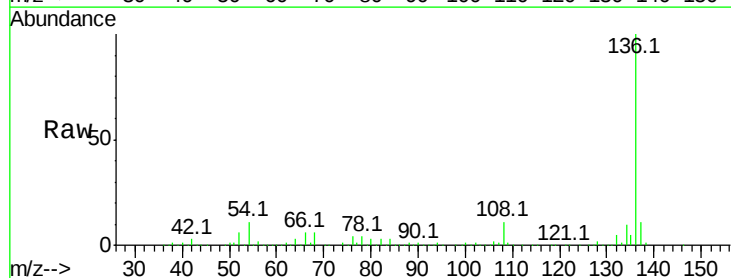
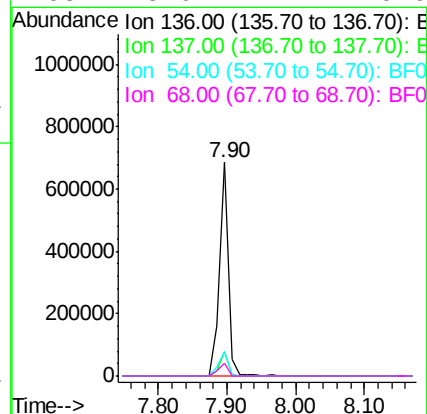
Ion Ratio Lower Upper

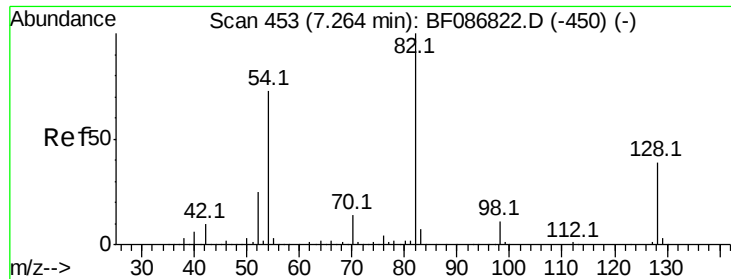
136 100

137 11.1 8.8 13.2

54 11.2 5.0 7.4#

68 5.9 4.4 6.6





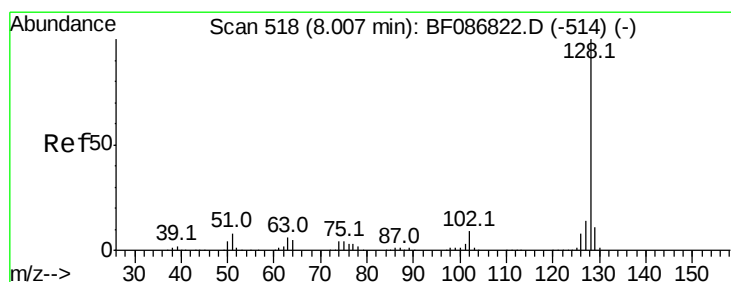
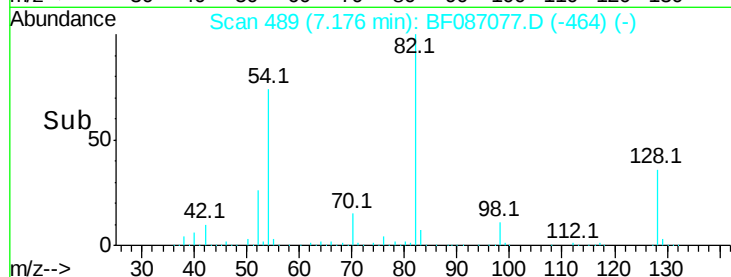
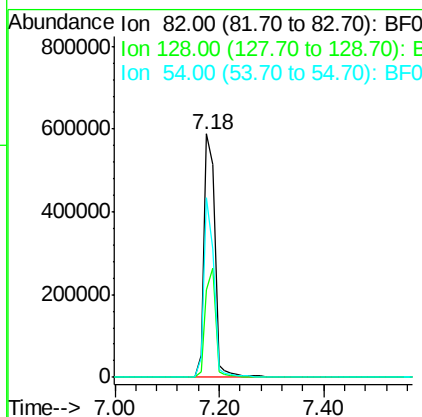
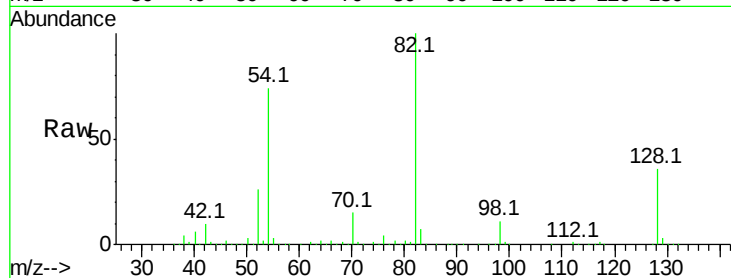
#23
 Nitrobenzene-d5
 Concen: 67.92 ng
 RT: 7.18 min Scan# 489
 Delta R.T. -0.01 min
 Lab File: BF087077.D
 Acq: 16 May 2016 13:14

Instrument :
 BNA_F
 ClientSampleId :
 E-10(8.5-9)

Tot Ion:	82	Resp:	858209
Ion Ratio	Lower	Upper	
82	100		
128	36.0	40.6	61.0#
54	73.9	38.1	57.1#

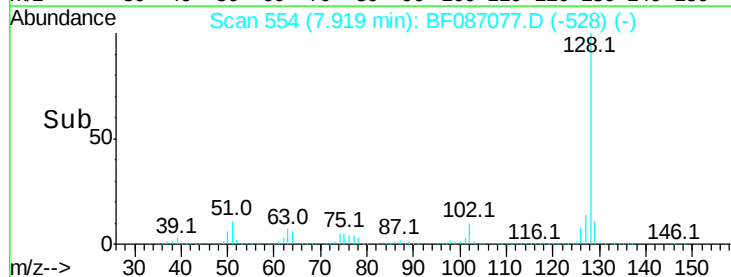
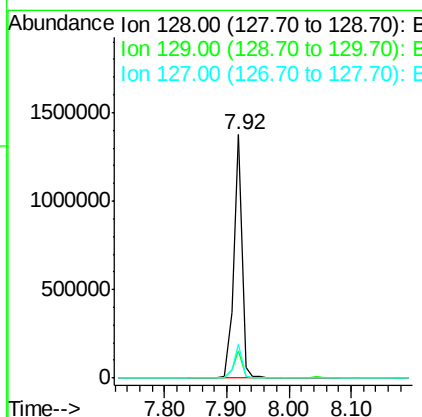
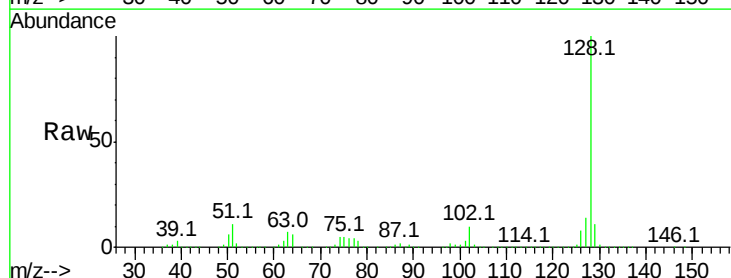
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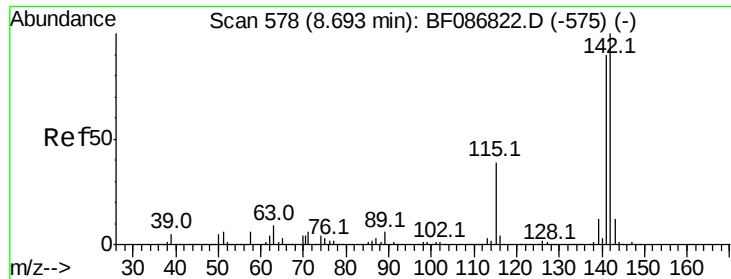
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#31
 Naphthalene
 Concen: 40.16 ng
 RT: 7.92 min Scan# 554
 Delta R.T. -0.00 min
 Lab File: BF087077.D
 Acq: 16 May 2016 13:14

Tgt Ion:	128	Resp:	1276287
Ion Ratio	Lower	Upper	
128	100		
129	11.4	8.6	13.0
127	13.9	10.8	16.2





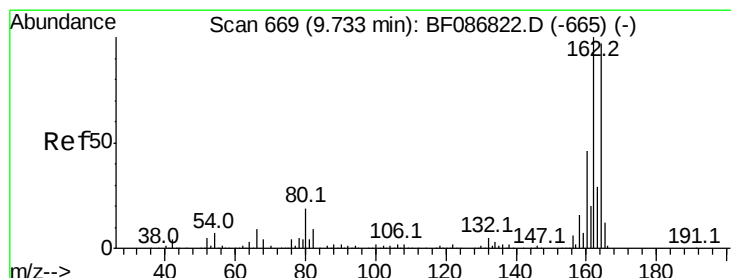
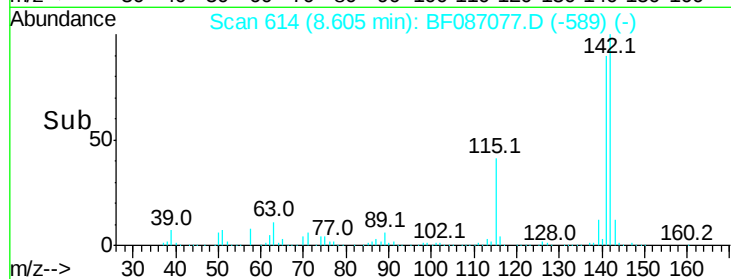
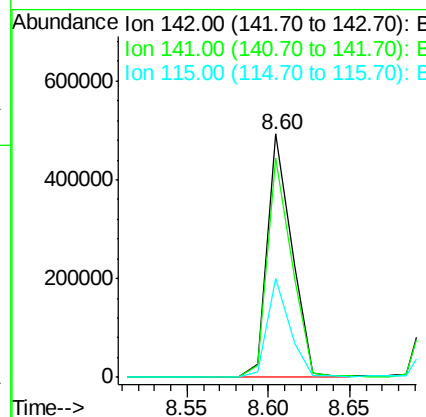
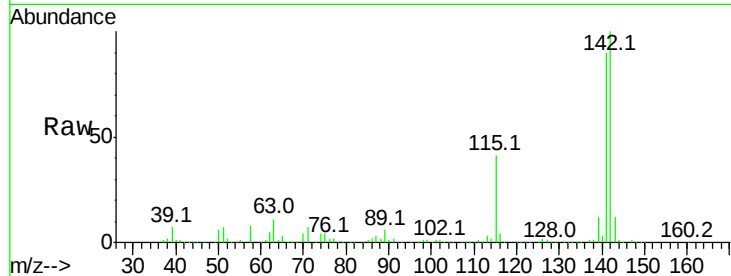
#37
2-Methylnaphthalene
Concen: 27.99 ng
RT: 8.60 min Scan# 614
Delta R.T. -0.01 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Instrument :
BNA_F
ClientSampleId :
E-10(8.5-9)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	519929		
141	90.0	71.0	106.6	
115	40.6	26.6	39.8#	

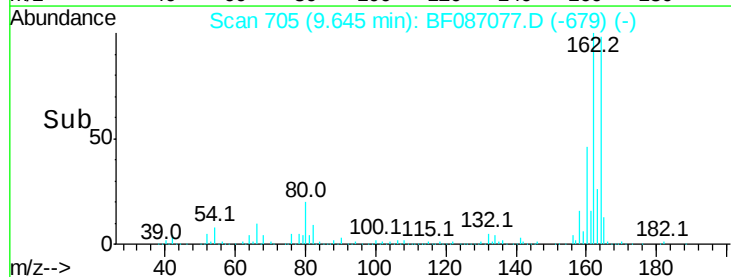
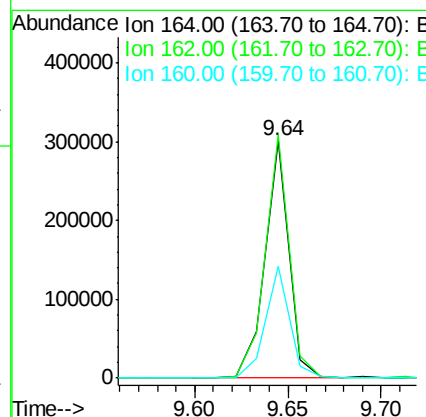
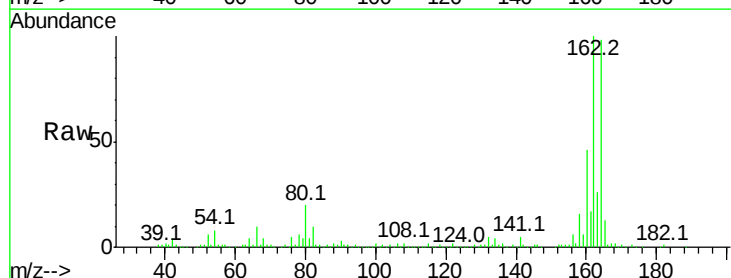
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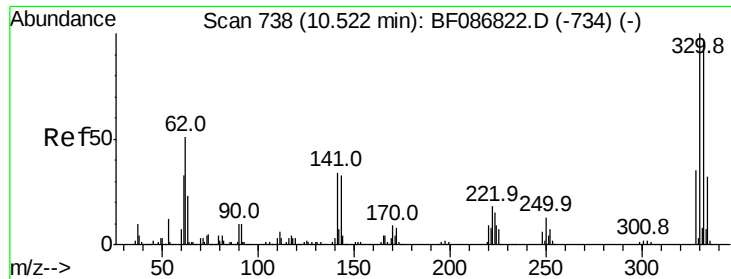
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.64 min Scan# 705
Delta R.T. 0.00 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	265367		
162	102.5	82.8	124.2	
160	47.1	36.9	55.3	





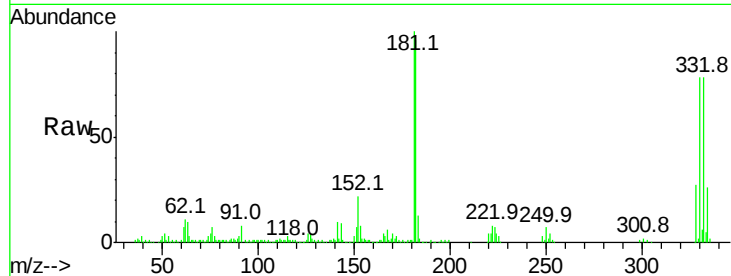
#41
 2,4,6-Tribromophenol
 Concen: 84.76 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.00 min
 Lab File: BF087077.D
 Acq: 16 May 2016 13:14

Instrument :
 BNA_F
 ClientSampleId :
 E-10(8.5-9)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	238110		
332	98.5	79.0	118.4	
141	38.2	31.2	46.8	

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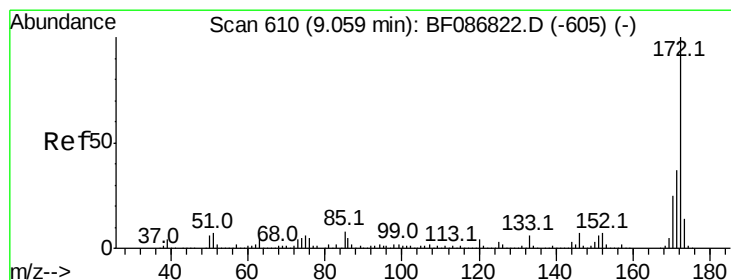
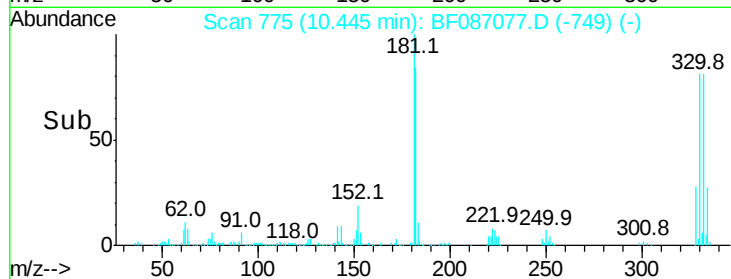
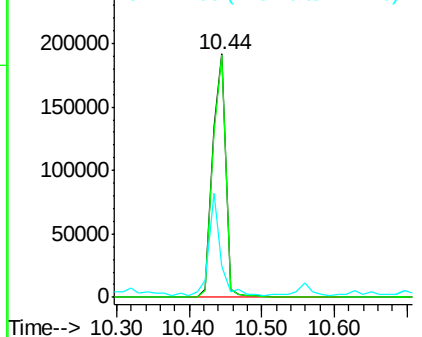


Abundance

Ion 329.80 (329.50 to 330.50): E

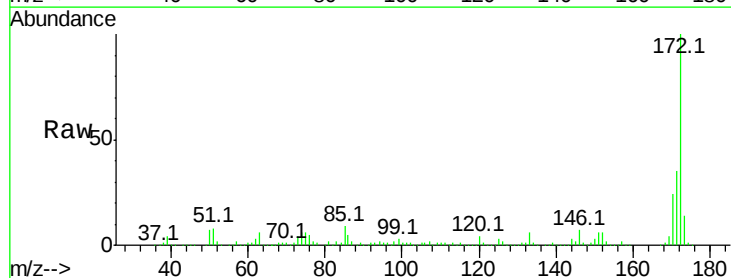
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 69.72 ng
 RT: 8.97 min Scan# 646
 Delta R.T. -0.01 min
 Lab File: BF087077.D
 Acq: 16 May 2016 13:14

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1100881		
171	35.5	29.0	43.6	
170	24.0	19.8	29.8	

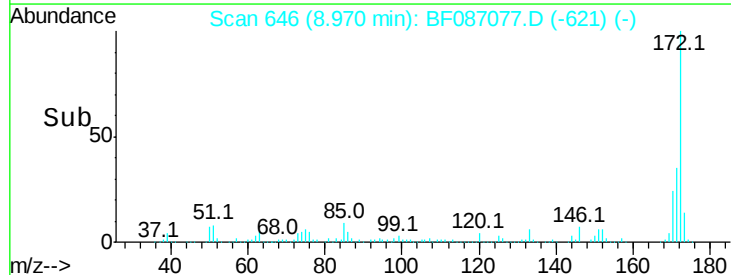
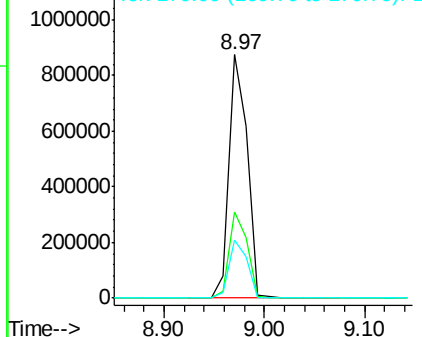


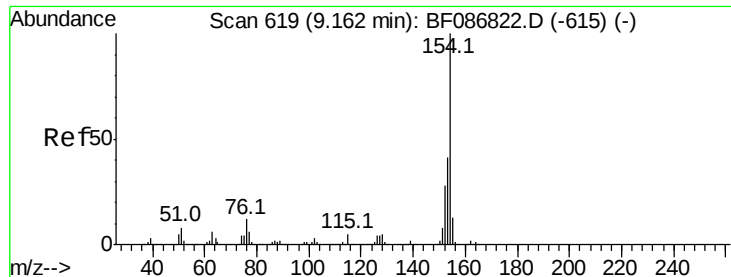
Abundance

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: 11.62 ng

RT: 9.07 min Scan# 655

Delta R.T. -0.00 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

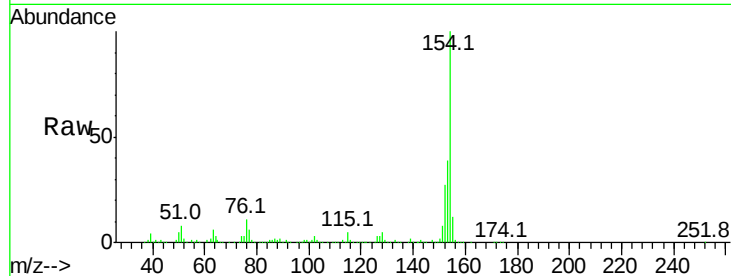
ClientSampleId :

E-10(8.5-9)

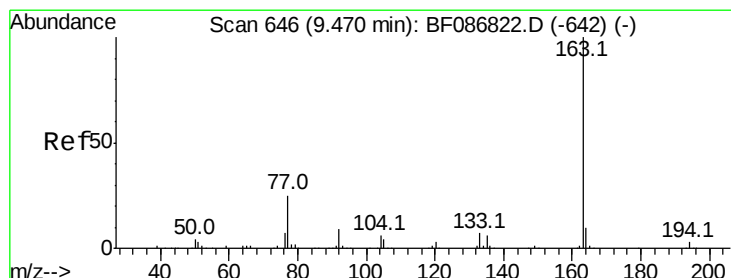
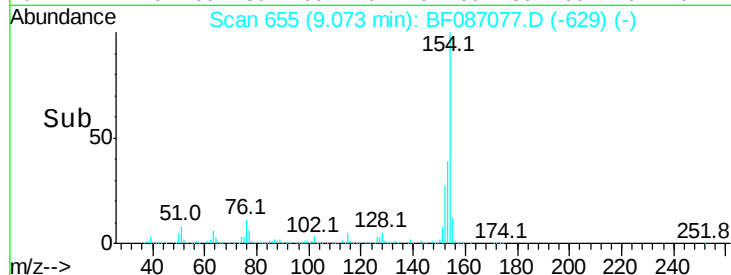
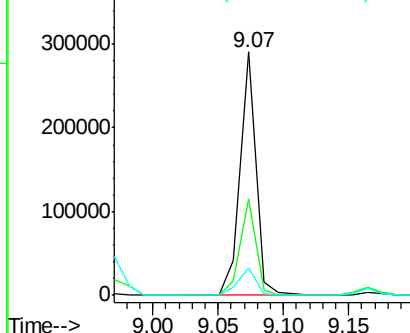
Tot Ion:	154	Resp:	245337
Ion Ratio	Lower	Upper	
154	100		
153	39.4	20.3	60.3
76	11.3	0.0	30.2

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 13.30 ng

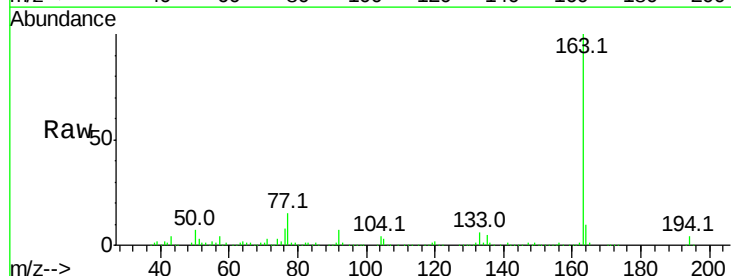
RT: 9.38 min Scan# 682

Delta R.T. -0.01 min

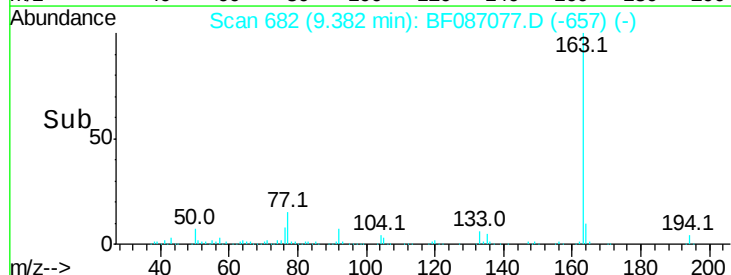
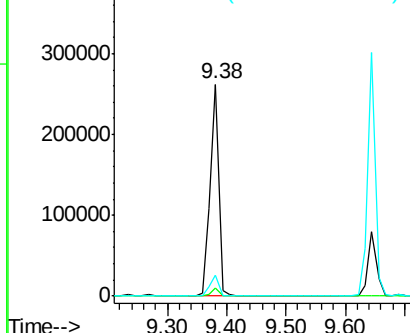
Lab File: BF087077.D

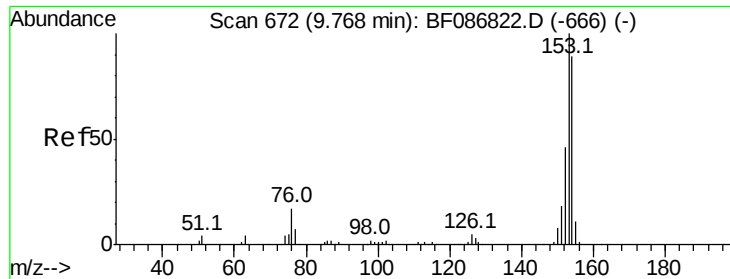
Acq: 16 May 2016 13:14

Tgt Ion:	163	Resp:	269218
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.6	4.0
164	10.0	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 59.25 ng

RT: 9.68 min Scan# 708

Delta R.T. 0.00 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

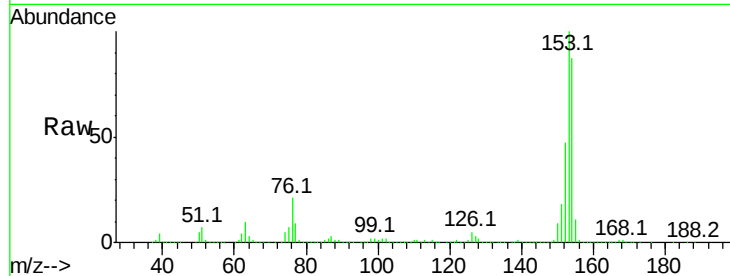
ClientSampleId :

E-10(8.5-9)

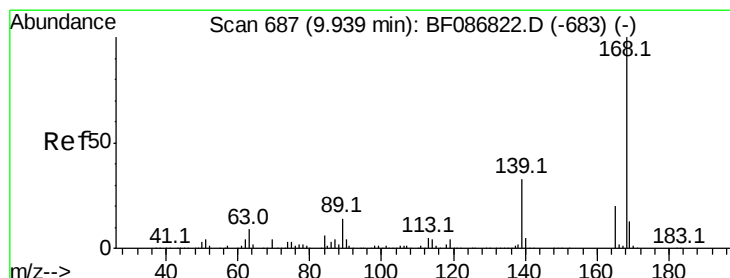
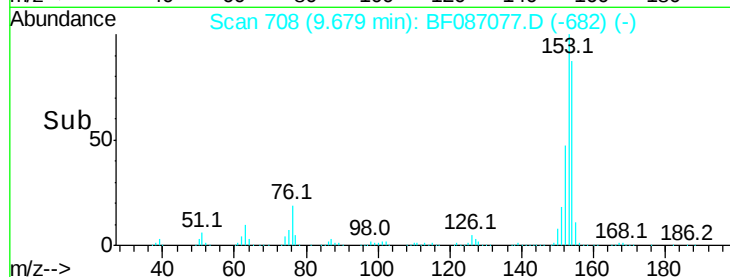
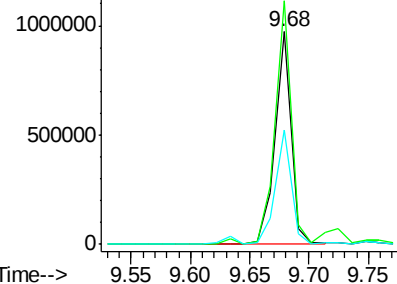
Tot Ion:	154	Resp:	896445
Ion Ratio	Lower	Upper	
154	100		
153	114.6	89.8	134.6
152	53.5	43.4	65.0

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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: 58.37 ng

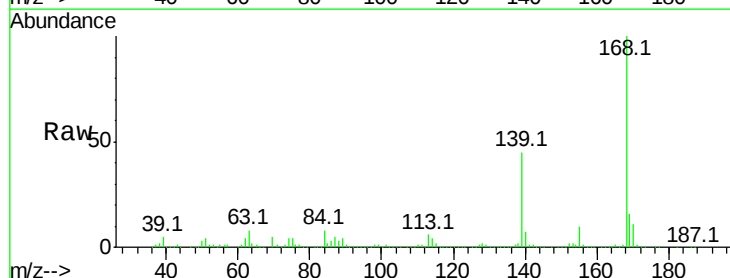
RT: 9.85 min Scan# 723

Delta R.T. 0.00 min

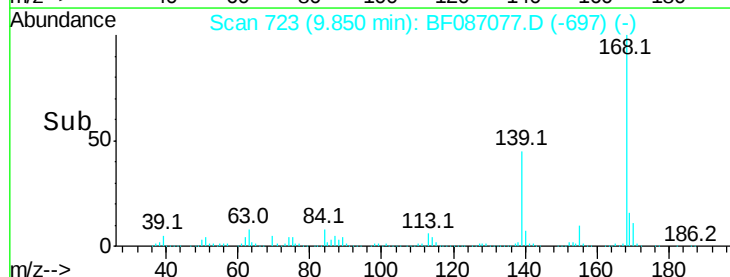
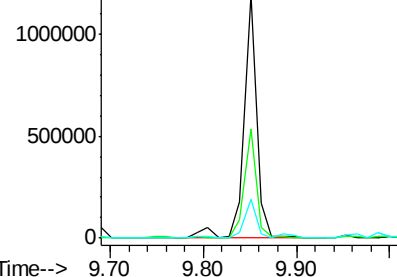
Lab File: BF087077.D

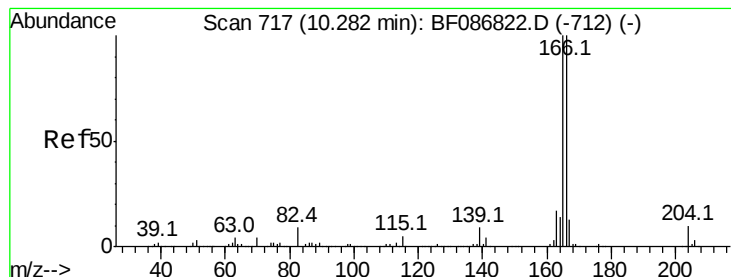
Acq: 16 May 2016 13:14

Tgt Ion:	168	Resp:	1133632
Ion Ratio	Lower	Upper	
168	100		
139	44.7	31.4	47.0
169	16.0	10.7	16.1



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: 71.16 ng

RT: 10.19 min Scan# 753

Delta R.T. -0.00 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

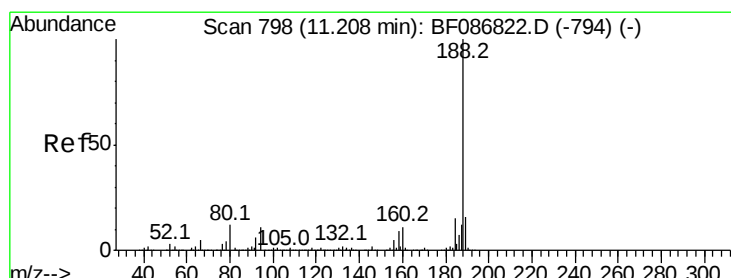
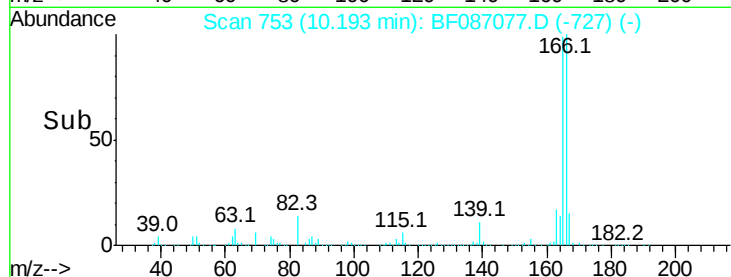
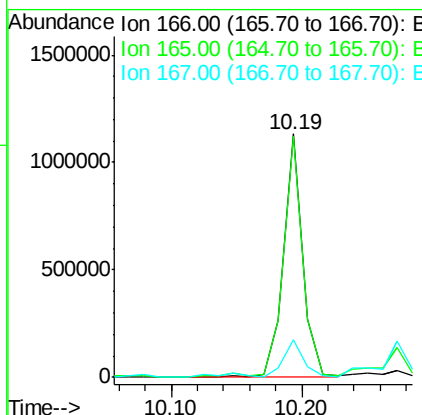
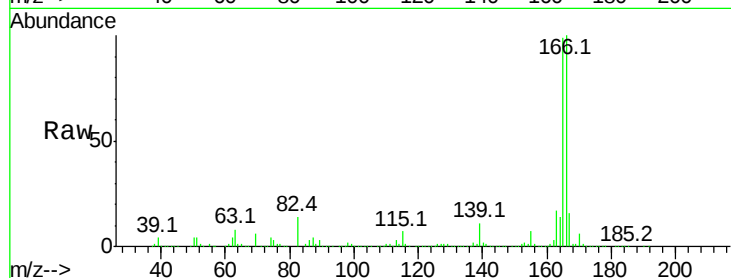
ClientSampleId :

E-10(8.5-9)

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Tot Ion:166	Resp: 1178660		
Ion Ratio	Lower	Upper	
166	100		
165	98.9	79.0	118.6
167	15.5	10.6	15.8



#63

Phenanthrene-d10

Concen: 20.00 ng

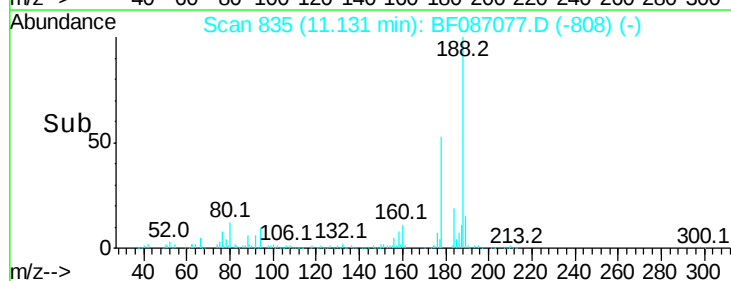
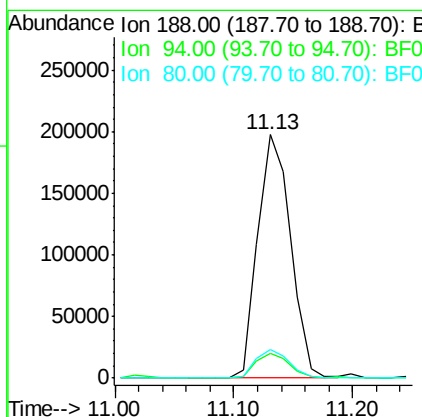
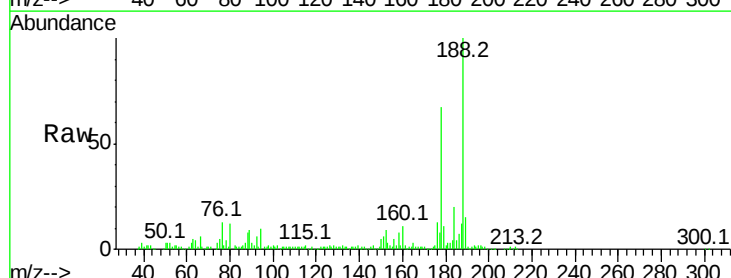
RT: 11.13 min Scan# 835

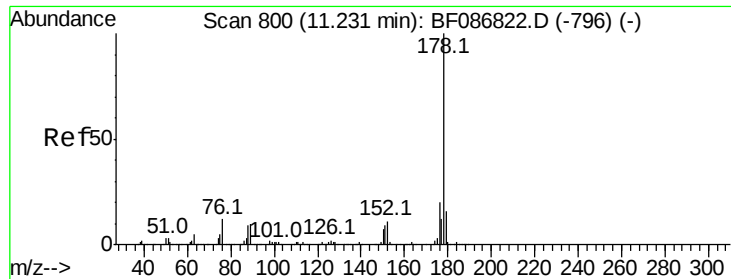
Delta R.T. 0.01 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Tgt Ion	Ion:188	Resp: 382320	
	Ratio	Lower	Upper
188	100		
94	10.1	6.8	10.2
80	11.6	7.1	10.7#





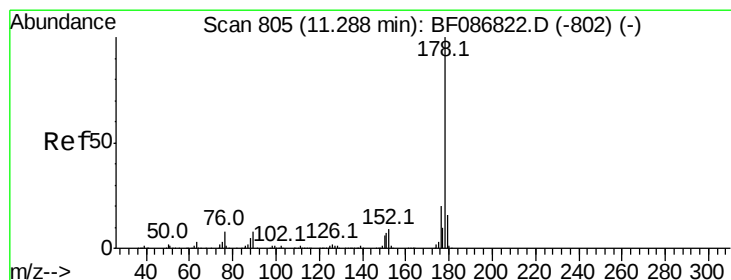
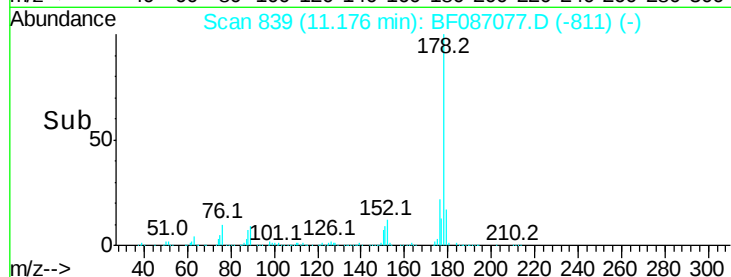
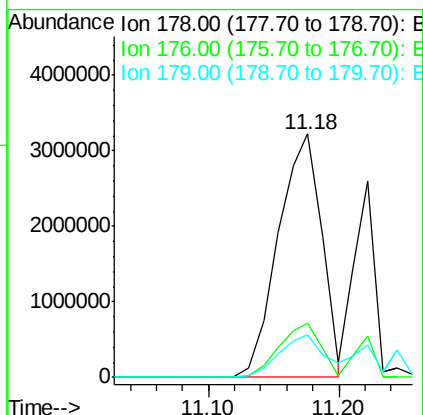
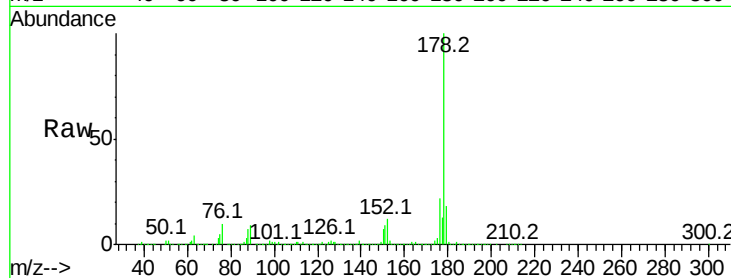
#70
Phenanthrene
Concen: 365.45 ng
RT: 11.18 min Scan# 839
Delta R.T. 0.02 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Instrument :
BNA_F
ClientSampleId :
E-10(8.5-9)

Tot Ion:178 Resp: 7456264
Ion Ratio Lower Upper
178 100
176 22.1 16.0 24.0
179 17.6 12.6 18.8

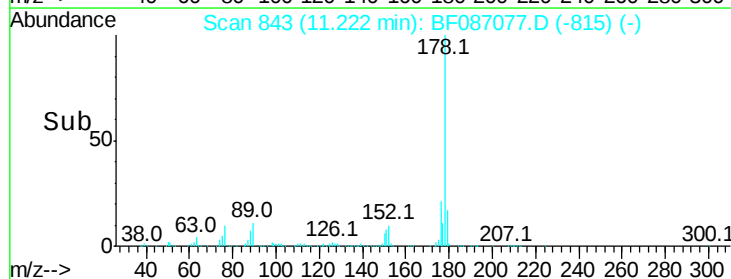
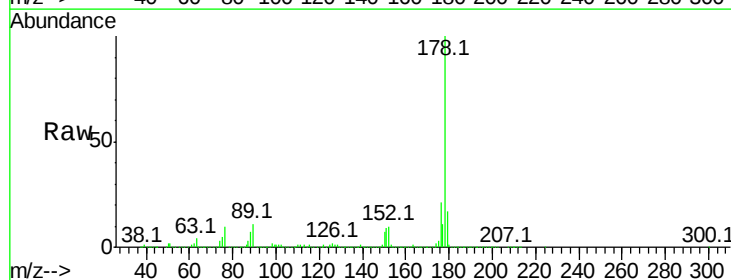
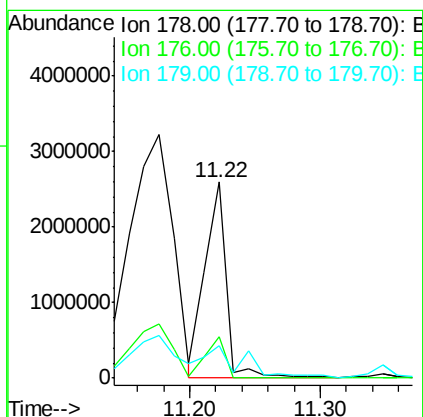
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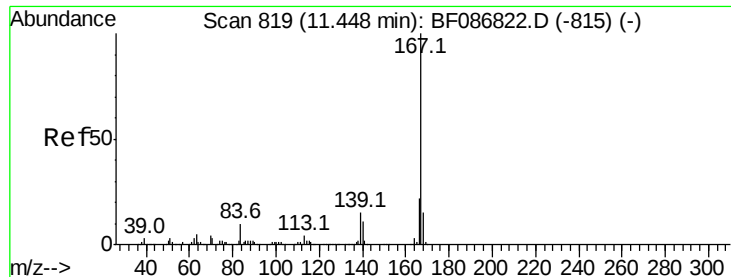
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#71
Anthracene
Concen: 139.71 ng
RT: 11.22 min Scan# 843
Delta R.T. 0.02 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Tgt Ion:178 Resp: 2915210
Ion Ratio Lower Upper
178 100
176 20.8 15.6 23.4
179 16.8 12.7 19.1





#72

Carbazole

Concen: 46.43 ng

RT: 11.37 min Scan# 856

Delta R.T. 0.00 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

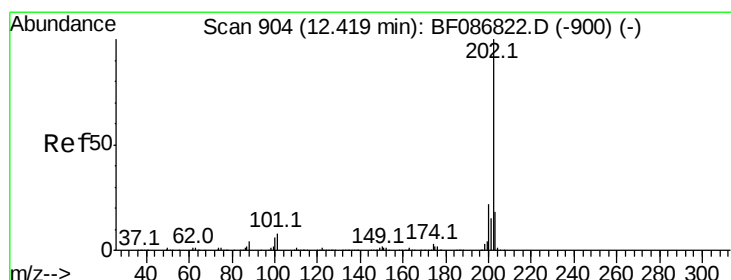
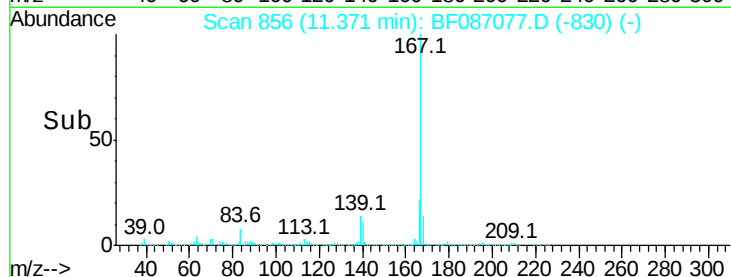
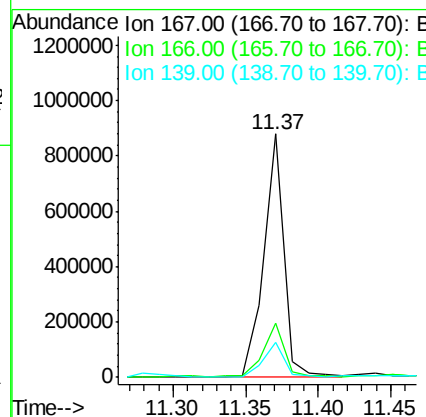
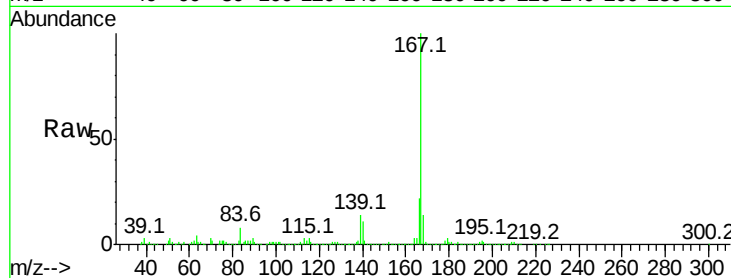
ClientSampleId :

E-10(8.5-9)

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Tot Ion	167	Resp	832774
Ion Ratio	Lower	Upper	
167	100		
166	22.4	17.7	26.5
139	14.2	10.8	16.2



#74

Fluoranthene

Concen: 321.66 ng

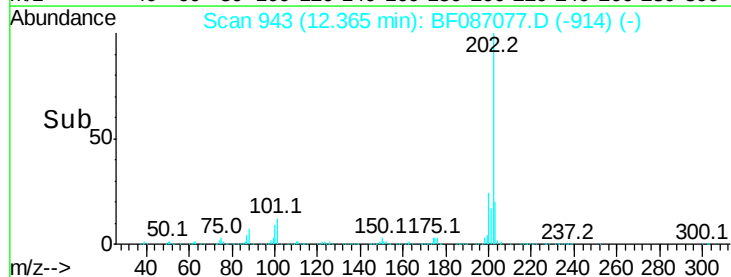
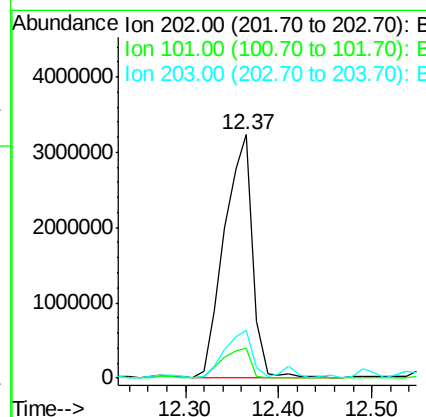
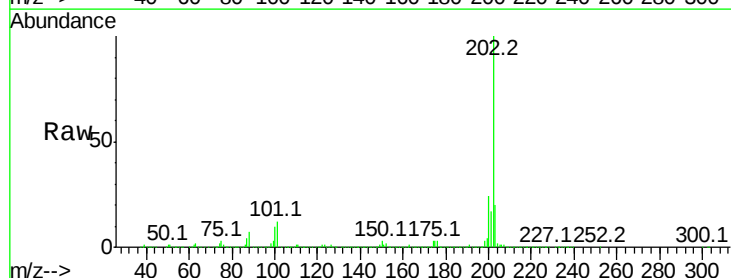
RT: 12.37 min Scan# 943

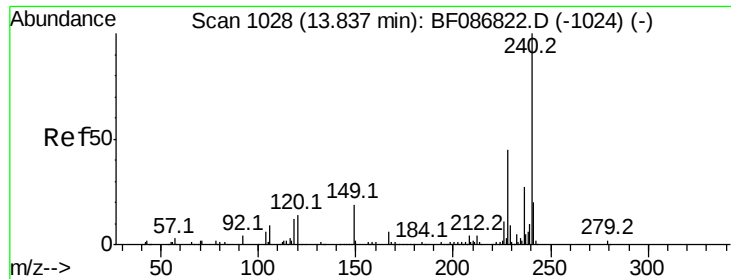
Delta R.T. 0.03 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Tgt Ion	202	Resp	6749928
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	35.4
203	19.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.78 min Scan# 1067

Delta R.T. 0.02 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

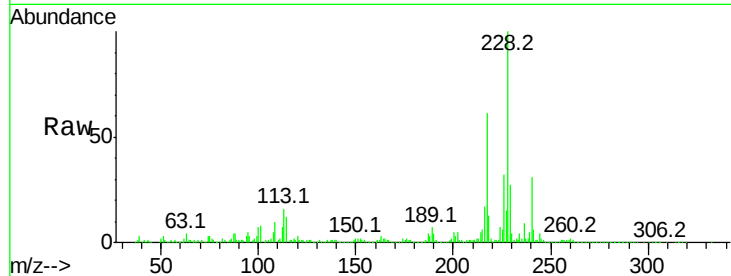
ClientSampleId :

E-10(8.5-9)

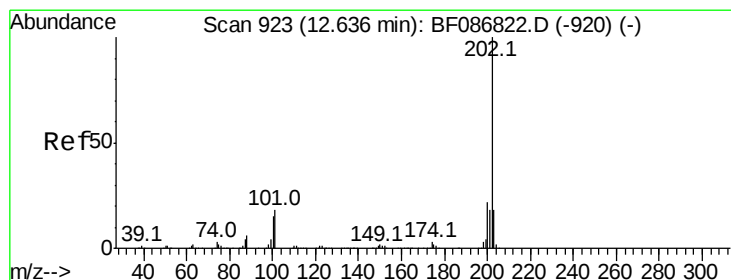
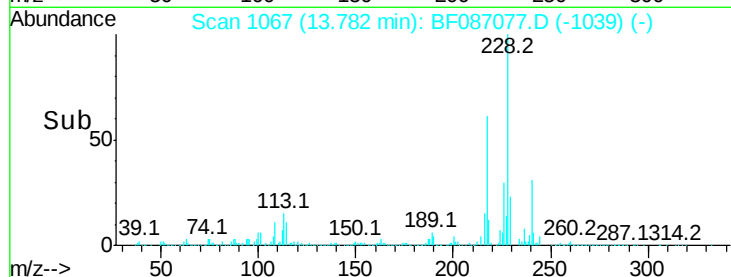
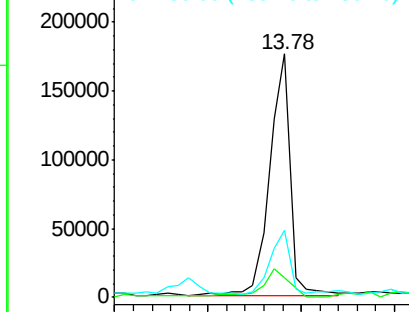
Tot Ion:	240	Resp:	265427
Ion Ratio		Lower	Upper
240	100		
120	8.2	11.2	16.8#
236	27.6	21.2	31.8

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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

Pyrene

Concen: 292.65 ng m

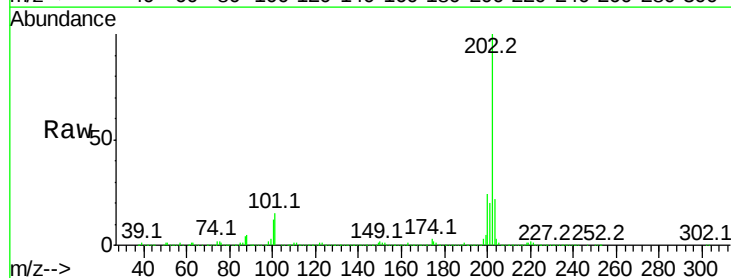
RT: 12.59 min Scan# 963

Delta R.T. 0.03 min

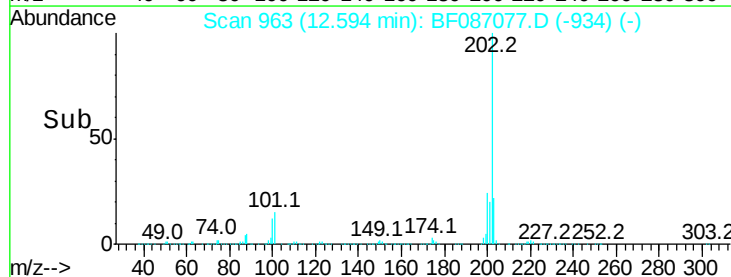
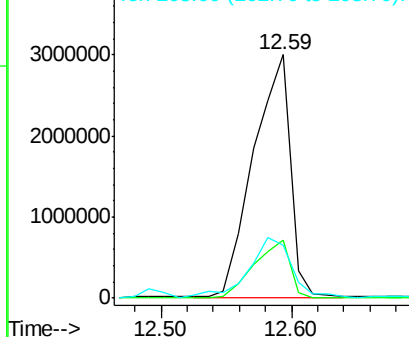
Lab File: BF087077.D

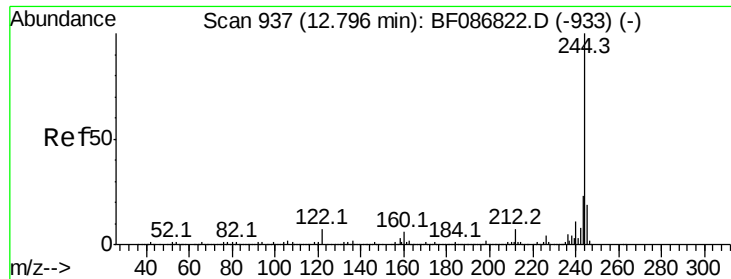
Acq: 16 May 2016 13:14

Tgt Ion:	202	Resp:	5946923
Ion Ratio		Lower	Upper
202	100		
200	23.9	17.7	26.5
203	21.9	14.2	21.4#



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: 57.19 ng

RT: 12.71 min Scan# 973

Delta R.T. -0.00 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

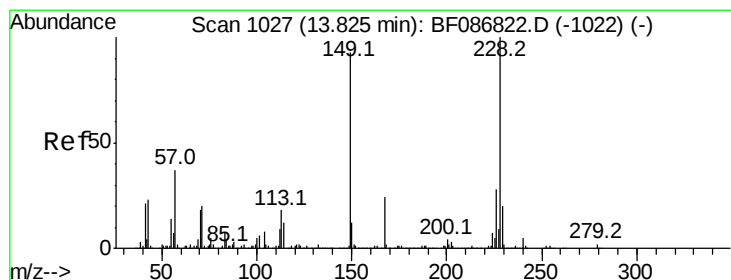
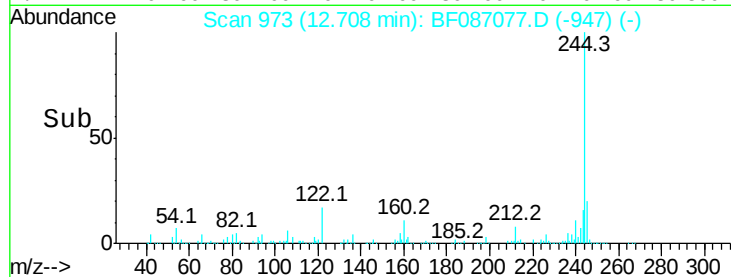
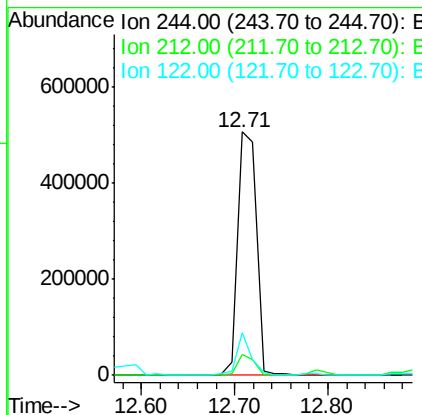
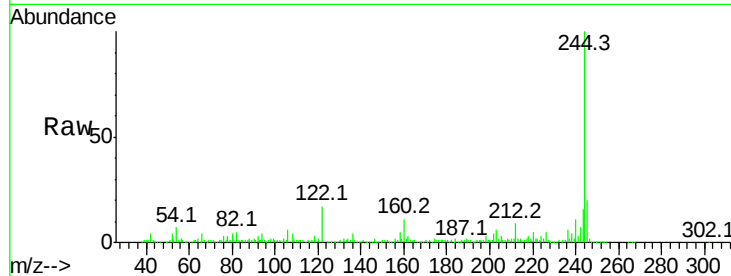
ClientSampleId :

E-10(8.5-9)

Tot Ion:	244	Resp:	715431
Ion Ratio	Lower	Upper	
244	100		
212	8.6	6.2	9.2
122	17.3	12.0	18.0

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#80

Benzo(a)anthracene

Concen: 243.23 ng

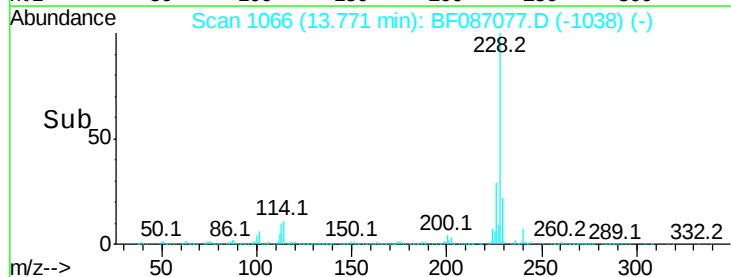
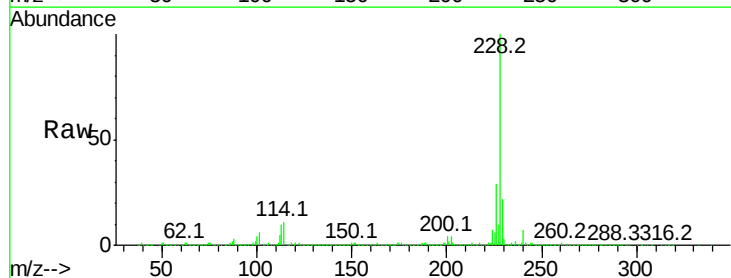
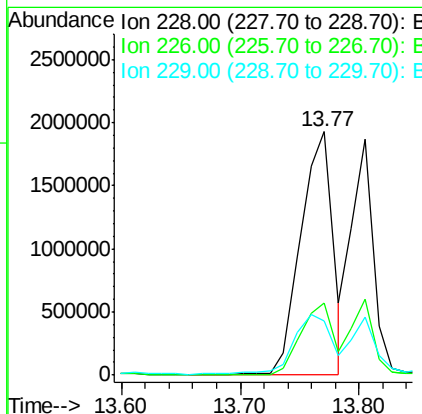
RT: 13.77 min Scan# 1066

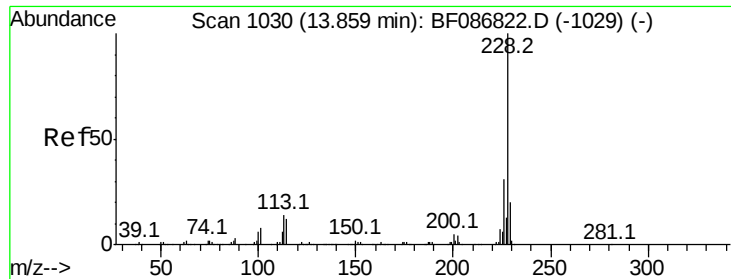
Delta R.T. 0.02 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Tgt Ion:	228	Resp:	3624208
Ion Ratio	Lower	Upper	
228	100		
226	29.4	22.5	33.7
229	22.3	16.6	25.0





#82

Chrysene

Concen: 157.97 ng/mL

RT: 13.81 min Scan# 1069

Delta R.T. 0.02 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

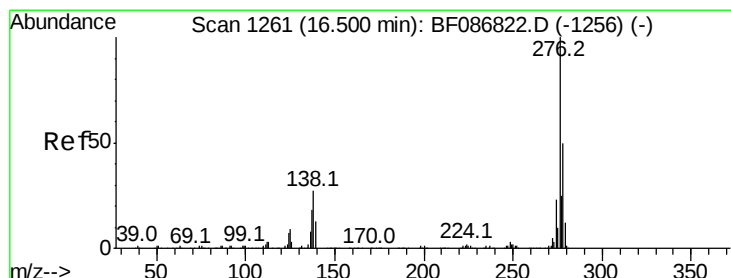
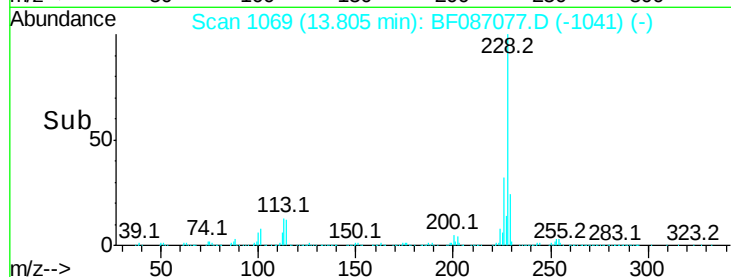
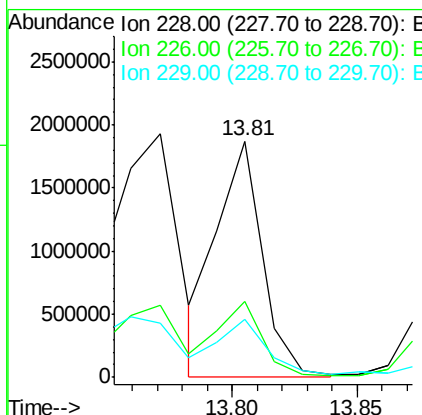
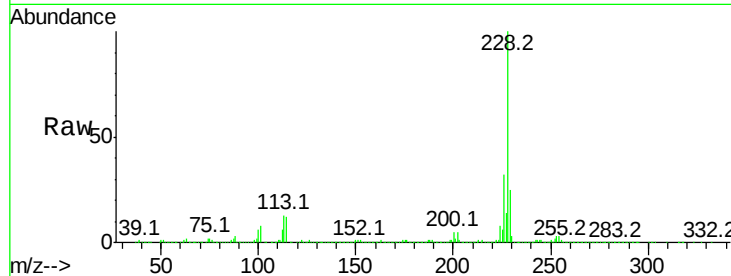
ClientSampleId :

E-10(8.5-9)

Tot Ion:	228	Resp:	2394303
Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.4	36.6
229	24.6	15.8	23.8

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#85

Indeno(1,2,3-cd)pyrene

Concen: 116.04 ng/mL

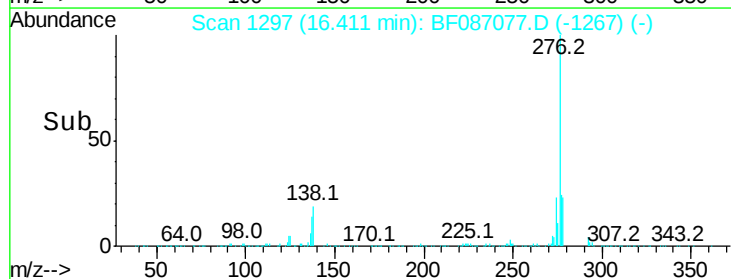
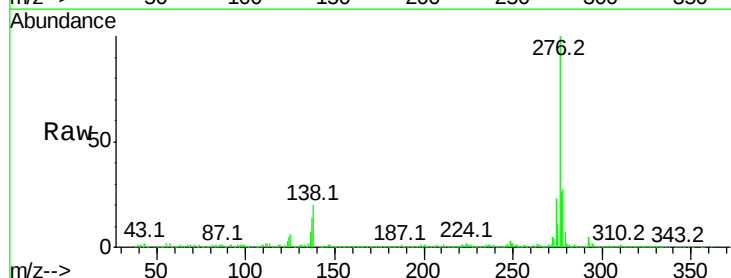
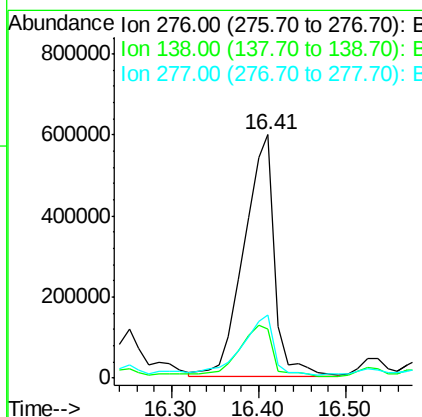
RT: 16.41 min Scan# 1297

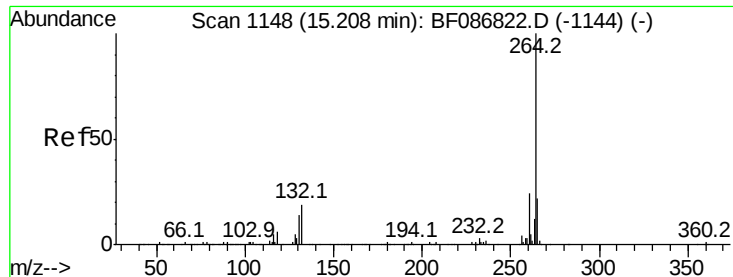
Delta R.T. 0.05 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Tgt Ion:	276	Resp:	1463414
Ion	Ratio	Lower	Upper
276	100		
138	24.1	25.6	38.4
277	25.6	20.5	30.7





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.14 min Scan# 1186

Delta R.T. 0.03 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Instrument :

BNA_F

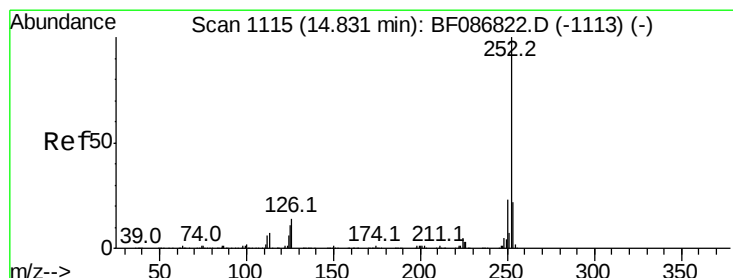
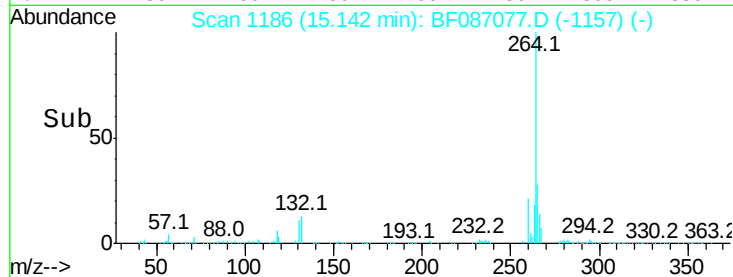
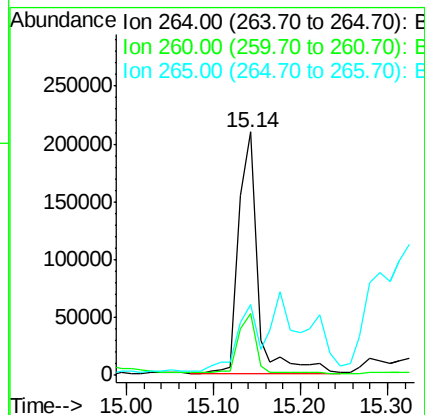
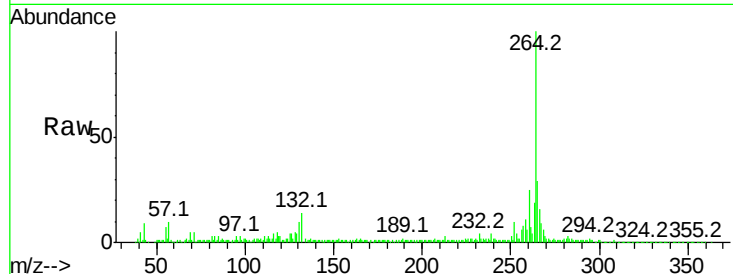
ClientSampleId :

E-10(8.5-9)

Tot Ion:	264	Resp:	315586
Ion Ratio	Lower	Upper	
264	100		
260	25.5	19.5	29.3
265	29.2	17.3	25.9#

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#87

Benzo(b)fluoranthene

Concen: 166.64 ng m

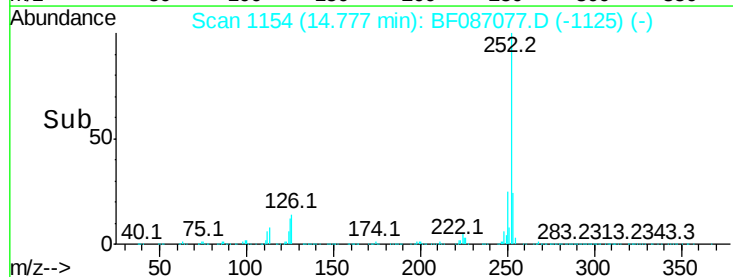
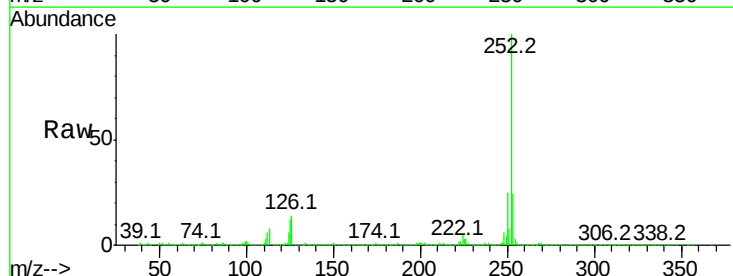
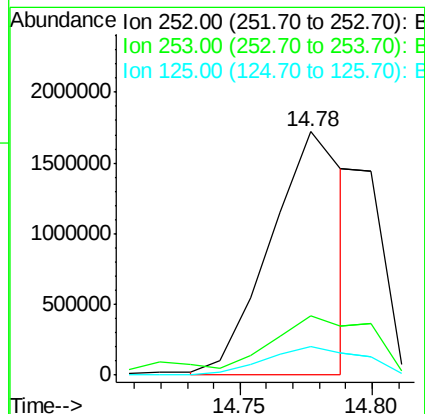
RT: 14.78 min Scan# 1154

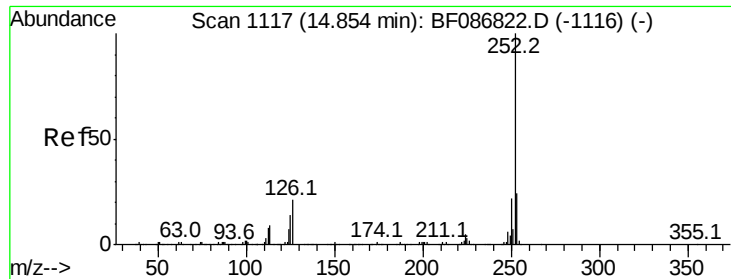
Delta R.T. 0.03 min

Lab File: BF087077.D

Acq: 16 May 2016 13:14

Tgt Ion:	252	Resp:	3417896
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.8	26.6
125	11.8	11.4	17.0





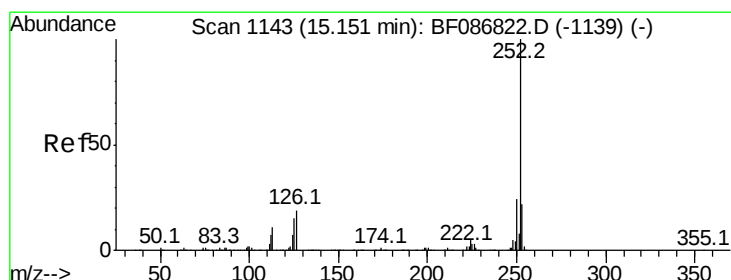
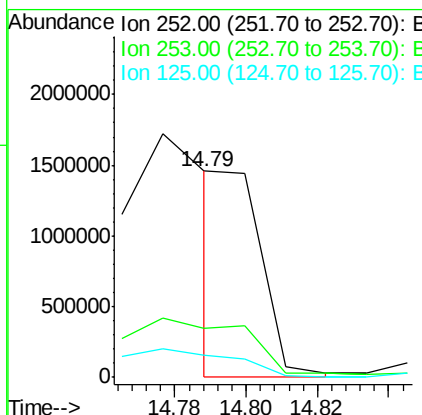
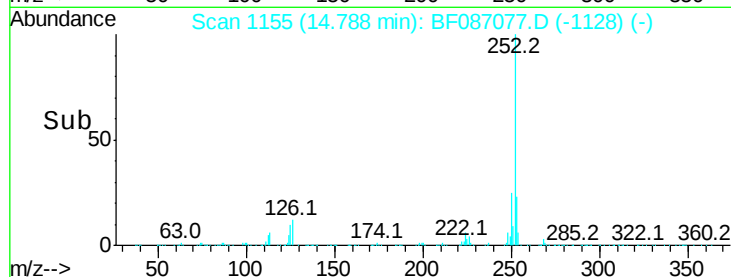
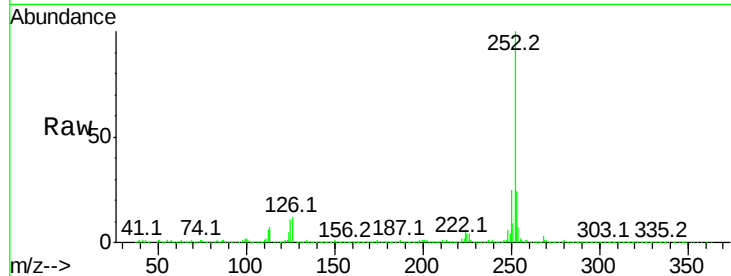
#88
Benzo(k)fluoranthene
Concen: 63.35 ng m
RT: 14.79 min Scan# 1155
Delta R.T. 0.01 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Instrument :
BNA_F
ClientSampleId :
E-10(8.5-9)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	10.5	9.1	13.7

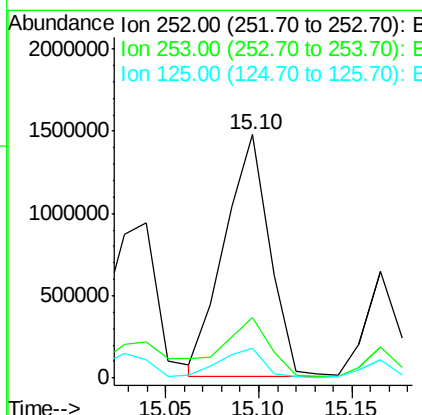
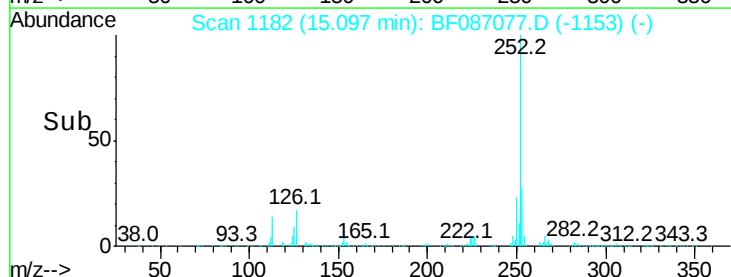
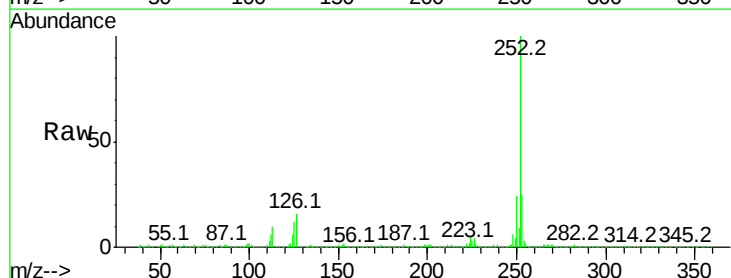
Manual Integrations
APPROVED

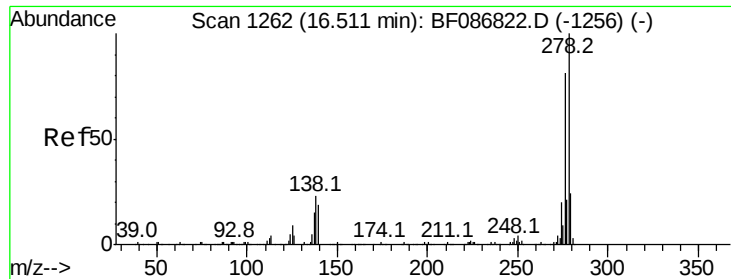
umangi
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#89
Benzo(a)pyrene
Concen: 140.45 ng
RT: 15.10 min Scan# 1182
Delta R.T. 0.03 min
Lab File: BF087077.D
Acq: 16 May 2016 13:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.2	25.8
125	12.1	9.0	13.6





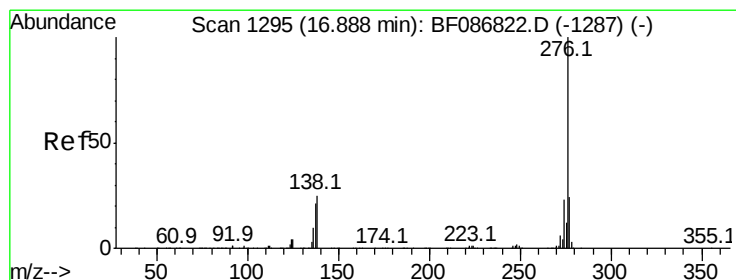
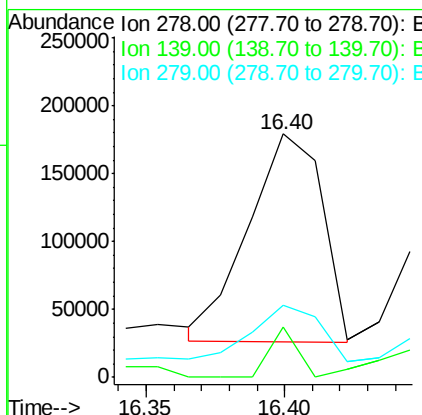
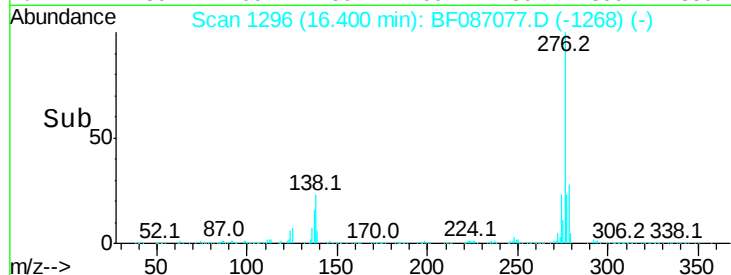
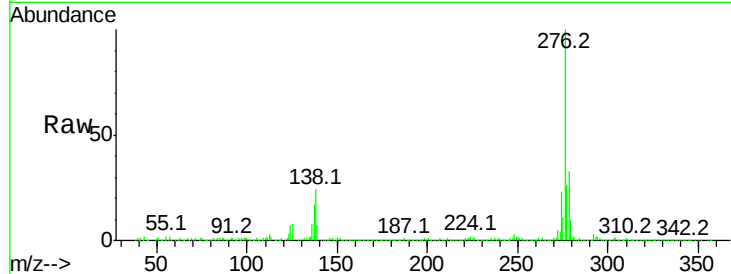
#90
 Dibenzo(a,h)anthracene
 Concen: 19.13 ng/mL
 RT: 16.40 min Scan# 1296
 Delta R.T. 0.02 min
 Lab File: BF087077.D
 Acq: 16 May 2016 13:14

Instrument :
 BNA_F
 ClientSampleId :
 E-10(8.5-9)

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.9	16.6	24.8
279	29.6	19.6	29.4

Manual Integrations
 APPROVED

umangi
 5/17/2016 7:14:43 PM



#91
 Benzo(g,h,i)perylene
 Concen: 86.57 ng/mL
 RT: 16.79 min Scan# 1330
 Delta R.T. 0.05 min
 Lab File: BF087077.D
 Acq: 16 May 2016 13:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.7	19.6	29.4
138	23.5	23.6	35.4

