

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
 Data File : BF081036.D
 Acq On : 18 Aug 2015 8:28
 Operator : UM/IZ
 Sample : G3239-03
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP

Manual Integrations
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 8/18/2015 5:13:37 PM

Quant Time: Aug 18 11:38:25 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 17 17:57:25 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	61741	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	228939	20.00	ng	0.01
38) Acenaphthene-d10	9.66	164	90528	20.00	ng	0.00
63) Phenanthrene-d10	11.13	188	151696	20.00	ng	0.00
75) Chrysene-d12	13.76	240	120400	20.00	ng	0.01
86) Perylene-d12	15.12	264	91756	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	464298	113.11	ng	0.02
7) Phenol-d6	6.28	99	731490	136.58	ng	0.02
23) Nitrobenzene-d5	7.20	82	421837	84.17	ng	0.01
41) 2,4,6-Tribromophenol	10.44	330	72104	91.88	ng	0.00
44) 2-Fluorobiphenyl	8.99	172	514102	74.41	ng	0.00
78) Terphenyl-d14	12.72	244	311191	55.41	ng	0.01

Target Compounds					Qvalue	
31) Naphthalene	7.93	128	62868	4.93	ng	98
37) 2-Methylnaphthalene	8.63	142	23374	2.90	ng	94
48) Acenaphthylene	9.52	152	58502	5.11	ng	99
49) Dimethylphthalate	9.39	163	190872	25.60	ng	99
51) Acenaphthene	9.69	154	62758	9.15	ng	100
54) Dibenzofuran	9.86	168	66915	7.28	ng	95
57) Fluorene	10.20	166	81333	11.50	ng	97
70) Phenanthrene	11.16	178	751935	83.64	ng	98
71) Anthracene	11.21	178	237033	27.09	ng	99
72) Carbazole	11.37	167	63712	7.56	ng	99
74) Fluoranthene	12.35	202	1020094	105.15	ng	97
77) Pyrene	12.57	202	833046	85.11	ng	97
80) Benzo(a)anthracene	13.76	228	475283	58.86	ng	97
82) Chrysene	13.79	228	386269	53.08	ng	97
85) Indeno(1,2,3-cd)pyrene	16.35	276	106712	20.89	ng	92
87) Benzo(b)fluoranthene	14.75	252	349280m	53.82	ng	
88) Benzo(k)fluoranthene	14.78	252	123547m	20.43	ng	
89) Benzo(a)pyrene	15.06	252	241375	42.68	ng	# 92
90) Dibenzo(a,h)anthracene	16.35	278	39077	8.87	ng	# 85
91) Benzo(g,h,i)perylene	16.72	276	104817	23.45	ng	# 89

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

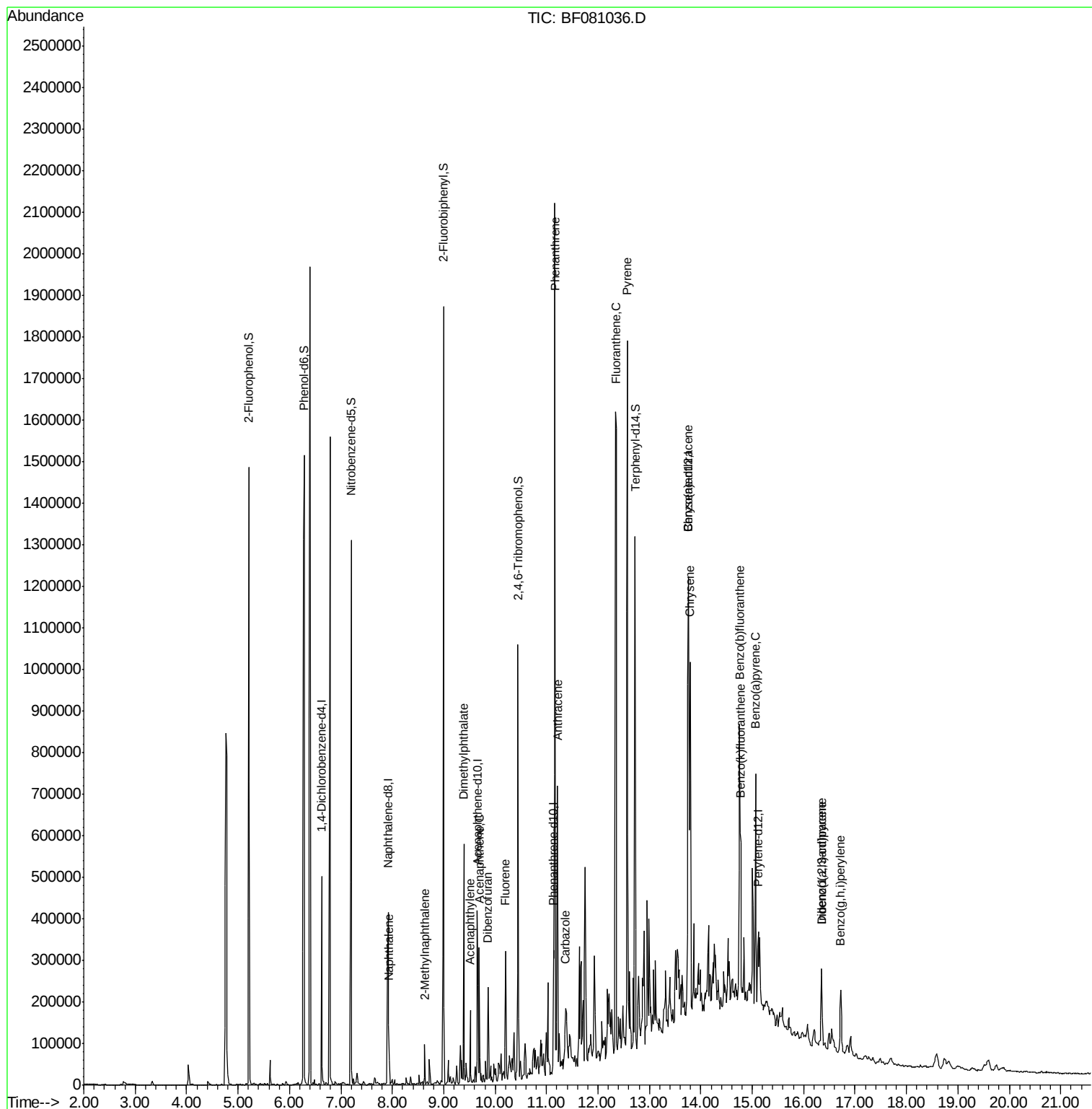
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 406

Delta R.T. 0.00 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

ClientSampleId :

TEC-COMP

Tgt Ion:152 Resp: 61741

Ion Ratio Lower Upper

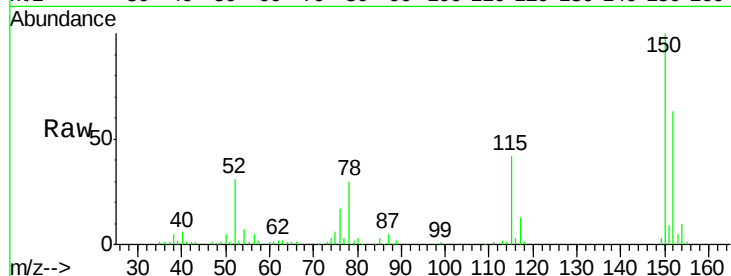
152 100

150 157.9 123.8 185.6

115 66.4 52.1 78.1

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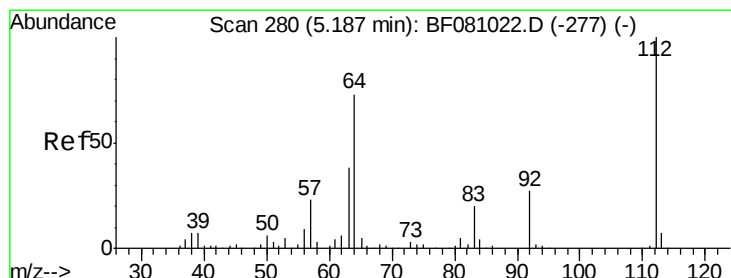
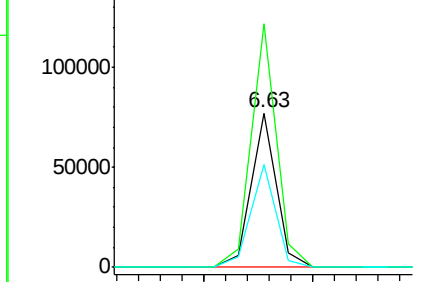
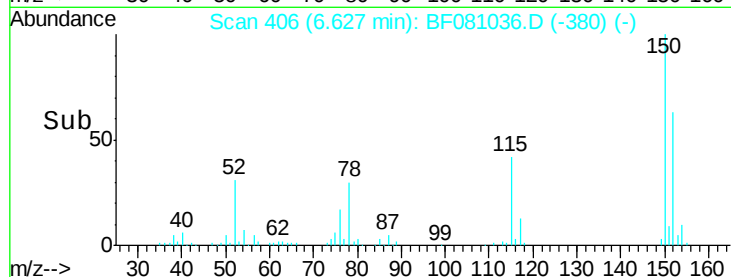
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 113.11 ng

RT: 5.21 min Scan# 282

Delta R.T. 0.02 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

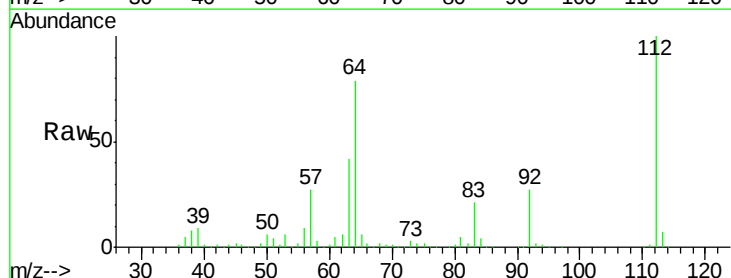
Tgt Ion:112 Resp: 464298

Ion Ratio Lower Upper

112 100

64 79.4 66.9 100.3

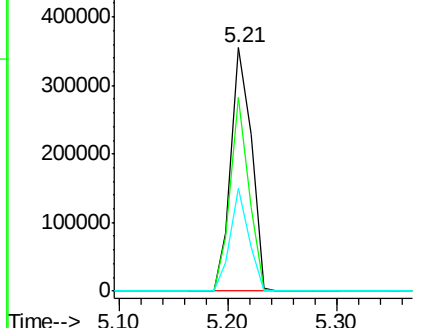
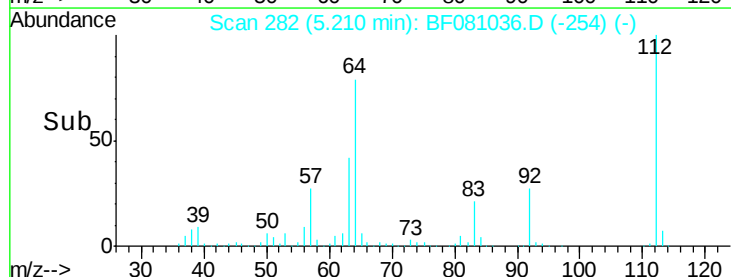
63 42.1 38.1 57.1



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: 136.58 ng

RT: 6.28 min Scan# 376

Delta R.T. 0.02 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

ClientSampleId :

TEC-COMP

Tgt Ion: 99 Resp: 731490

Ion Ratio Lower Upper

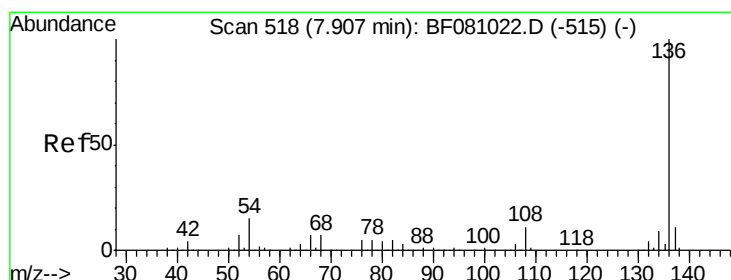
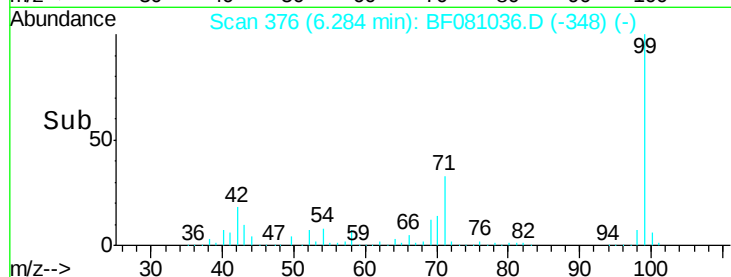
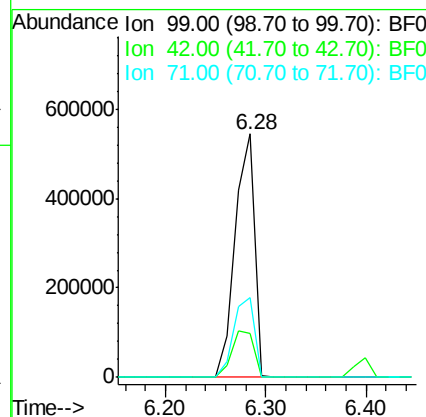
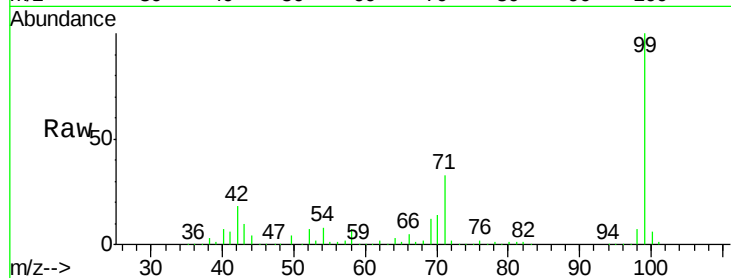
99 100

42 17.9 19.6 29.4#

71 32.5 31.2 46.8

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 519

Delta R.T. 0.01 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Tgt Ion: 136 Resp: 228939

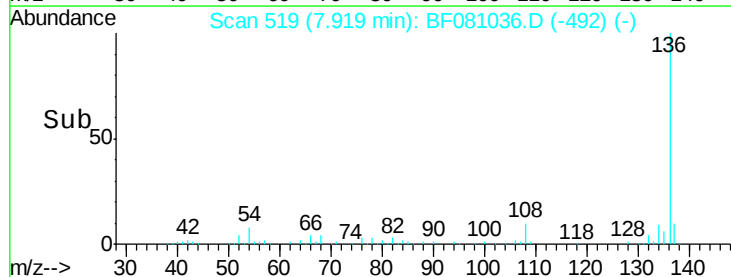
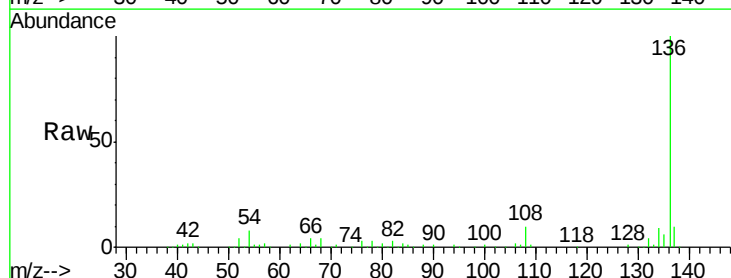
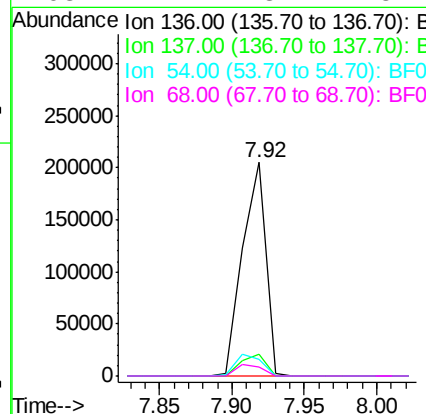
Ion Ratio Lower Upper

136 100

137 10.3 8.2 12.2

54 7.9 7.7 11.5

68 4.2 3.4 5.2





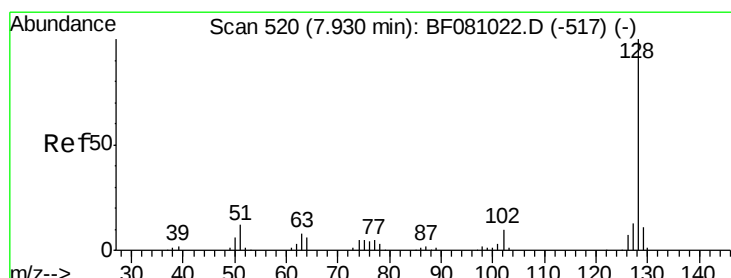
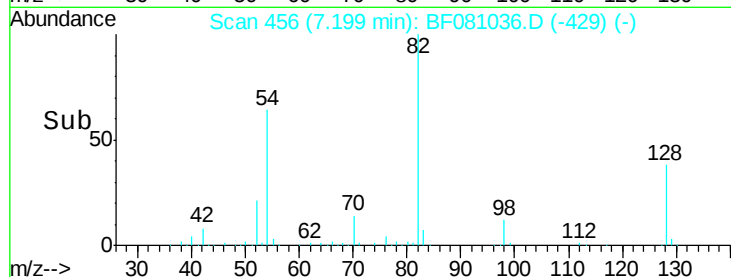
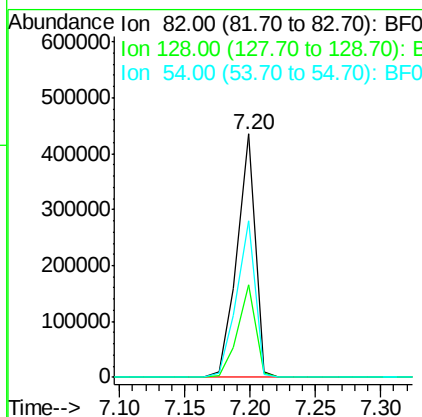
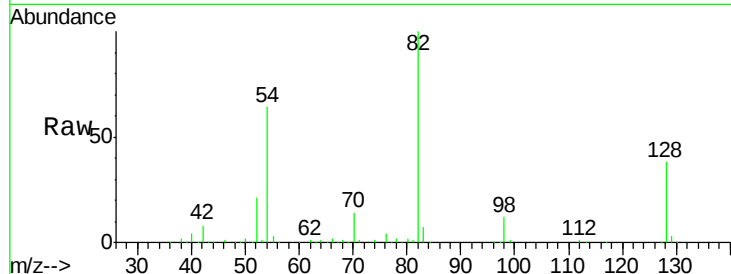
#23
 Nitrobenzene-d5
 Concen: 84.17 ng
 RT: 7.20 min Scan# 456
 Delta R.T. 0.01 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP

Tgt Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	37.8	28.6	42.8
54	64.1	55.1	82.7

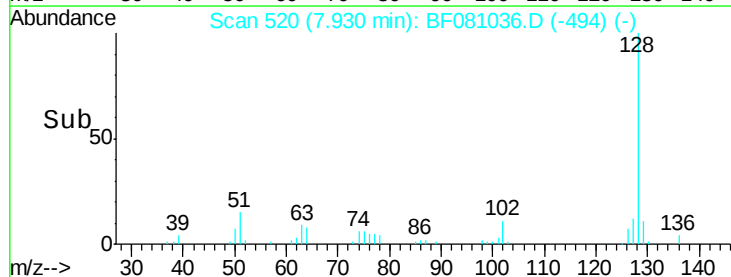
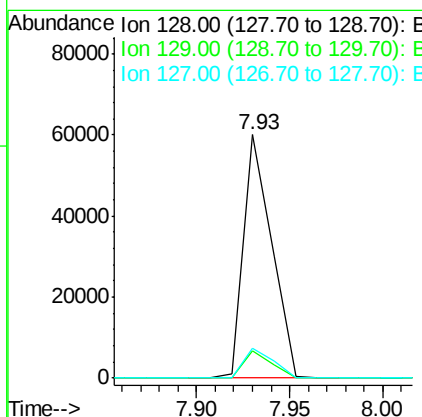
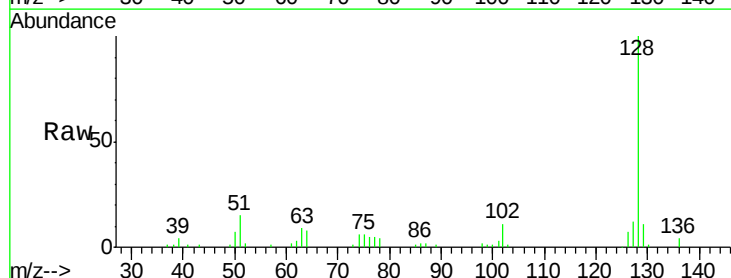
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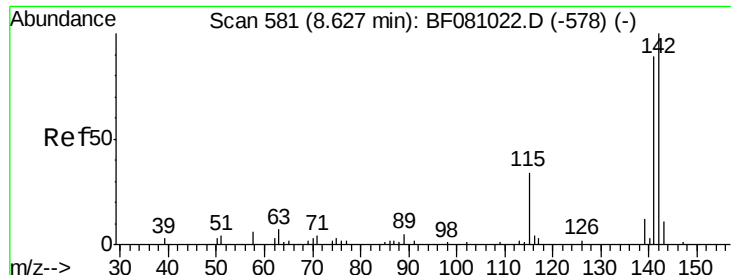
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#31
 Naphthalene
 Concen: 4.93 ng
 RT: 7.93 min Scan# 520
 Delta R.T. 0.00 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.3	8.4	12.6
127	12.3	10.6	16.0





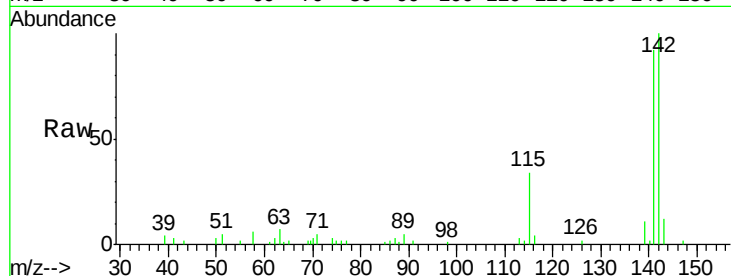
#37
 2-Methylnaphthalene
 Concen: 2.90 ng
 RT: 8.63 min Scan# 581
 Delta R.T. -0.00 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP

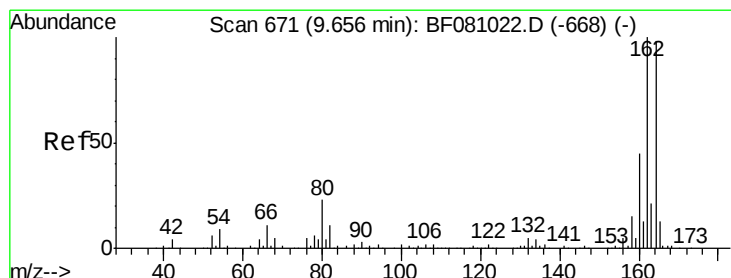
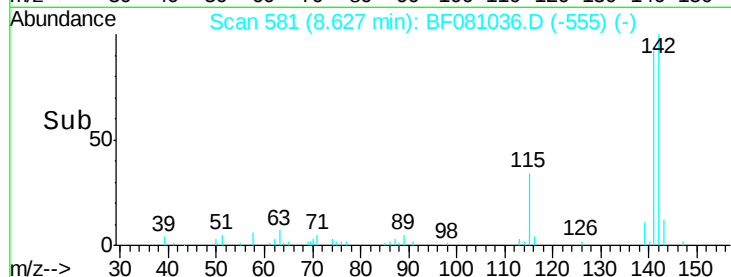
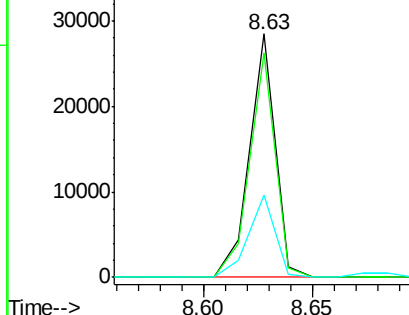
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	23374		
141	92.4	71.4	107.2	
115	34.0	33.4	50.0	

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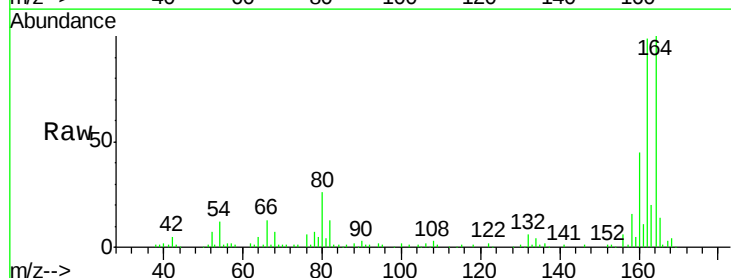


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

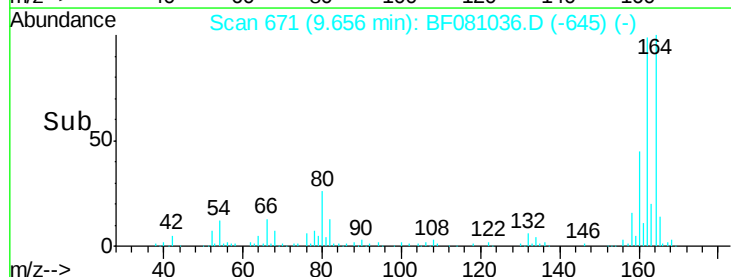
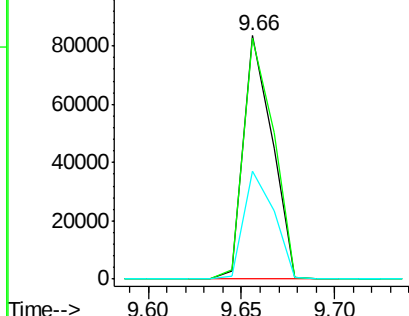


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.66 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	90528		
162	98.8	83.8	125.8	
160	44.6	39.8	59.8	



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: 91.88 ng

RT: 10.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF081036.D

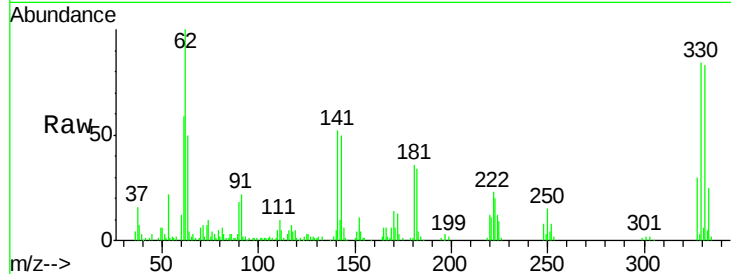
Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

ClientSampleId :

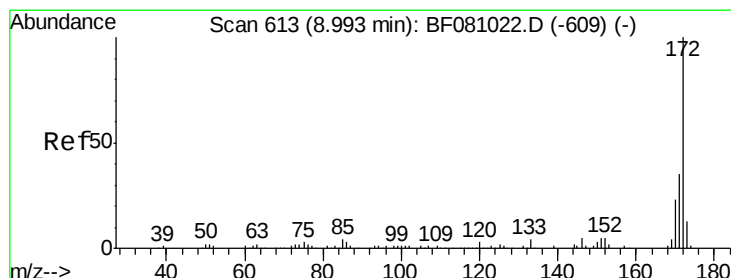
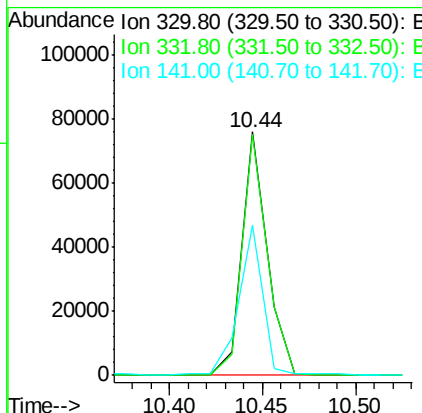
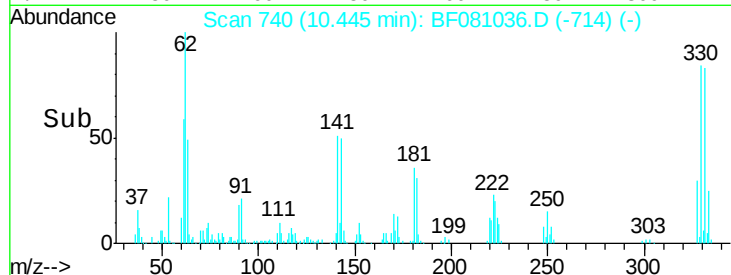
TEC-COMP



Tgt Ion:	330	Resp:	72104
Ion Ratio	Lower	Upper	
330	100		
332	98.4	77.3	115.9
141	60.2	44.9	67.3

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#44

2-Fluorobiphenyl

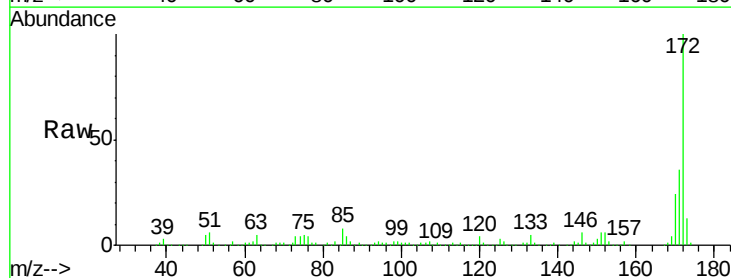
Concen: 74.41 ng

RT: 8.99 min Scan# 613

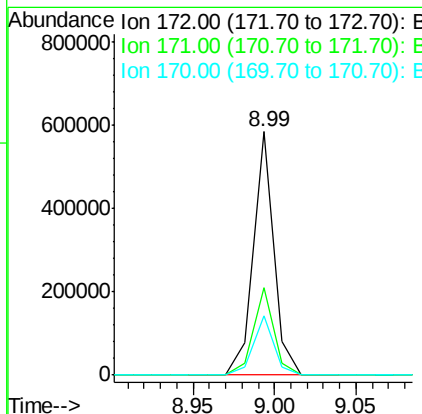
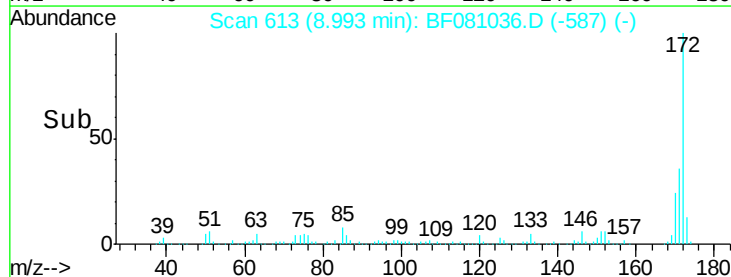
Delta R.T. 0.00 min

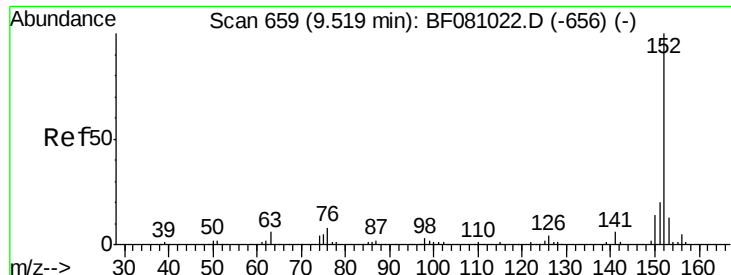
Lab File: BF081036.D

Acq: 18 Aug 2015 8:28



Tgt Ion:	172	Resp:	514102
Ion Ratio	Lower	Upper	
172	100		
171	35.8	28.9	43.3
170	24.1	19.4	29.2





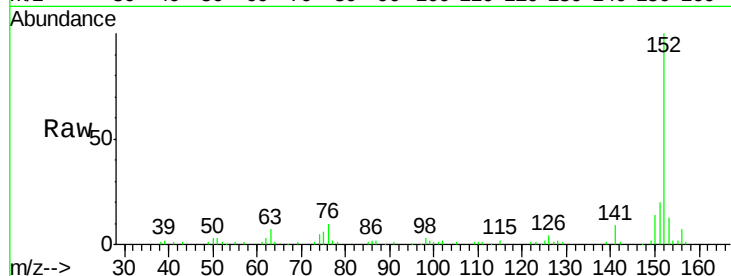
#48
Acenaphthylene
Concen: 5.11 ng
RT: 9.52 min Scan# 659
Delta R.T. 0.00 min
Lab File: BF081036.D
Acq: 18 Aug 2015 8:28

Instrument :
BNA_F
ClientSampleId :
TEC-COMP

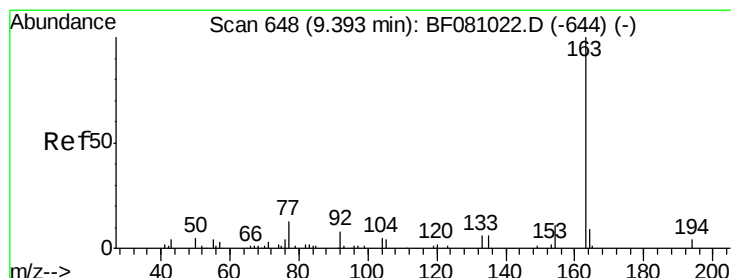
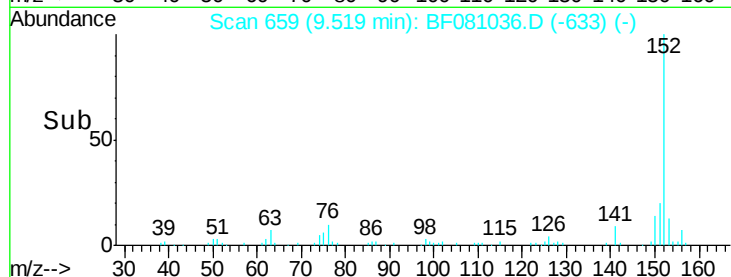
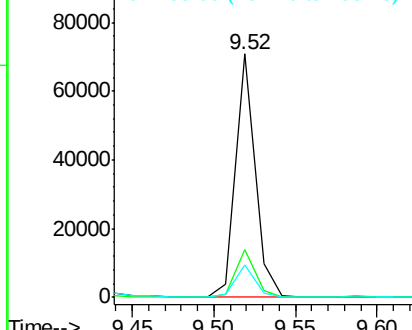
Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	19.7	16.1	24.1
153	13.1	9.8	14.6

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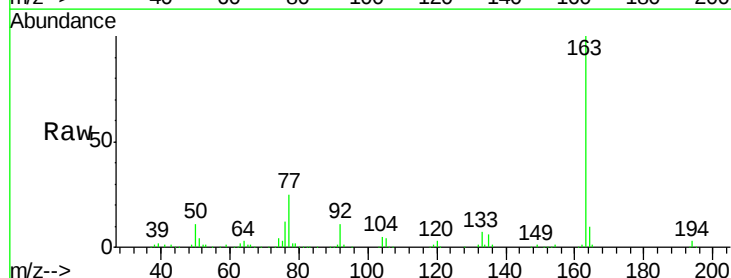


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

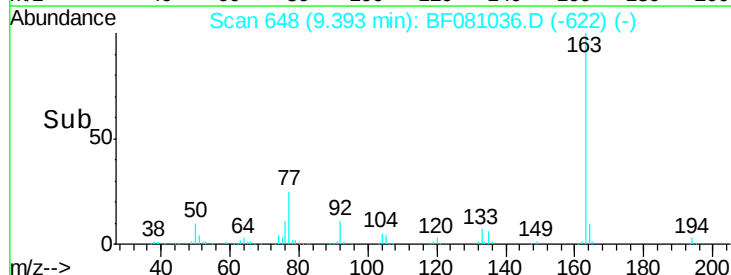
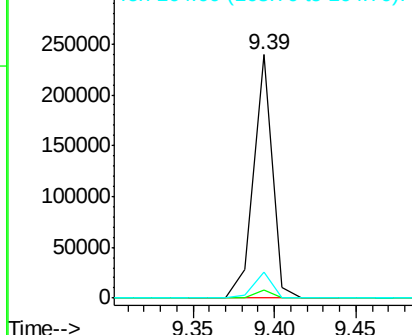


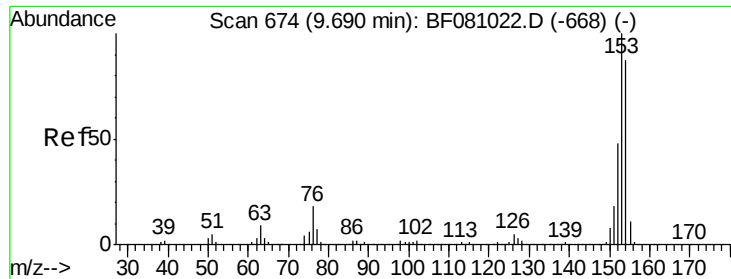
#49
Dimethylphthalate
Concen: 25.60 ng
RT: 9.39 min Scan# 648
Delta R.T. 0.00 min
Lab File: BF081036.D
Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.2	2.5	3.7
164	10.5	8.1	12.1



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: 9.15 ng

RT: 9.69 min Scan# 674

Delta R.T. -0.00 min

Lab File: BF081036.D

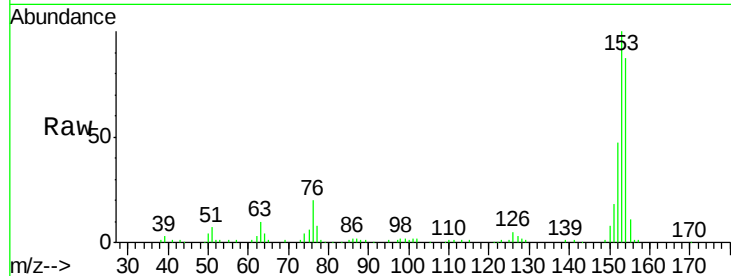
Acq: 18 Aug 2015 8:28

Instrument :

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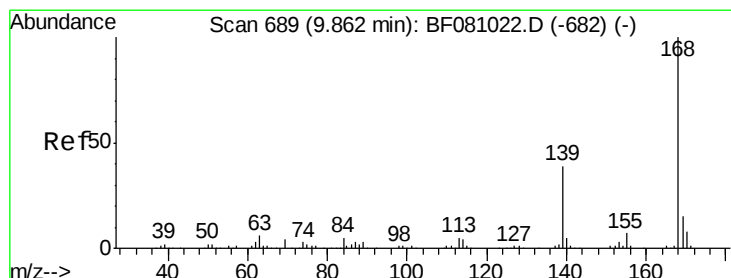
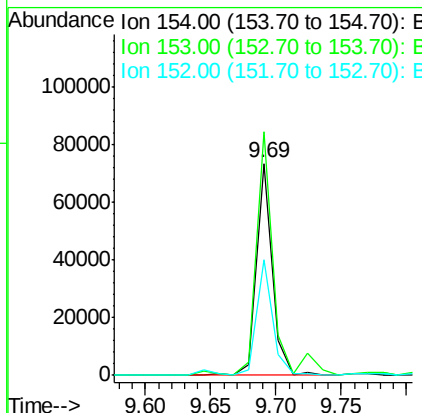
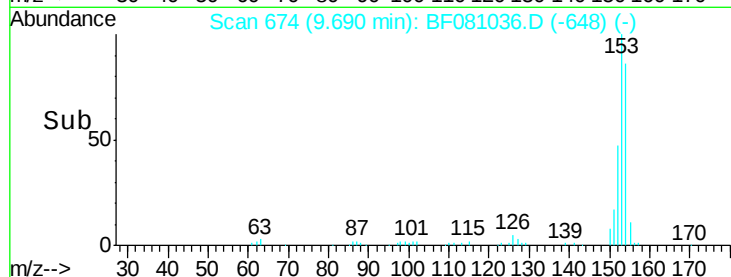
TEC-COMP



Tgt Ion:	154	Resp:	62758
Ion Ratio	Lower	Upper	
154	100		
153	114.8	91.4	137.2
152	54.4	43.7	65.5

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#54

Dibenzofuran

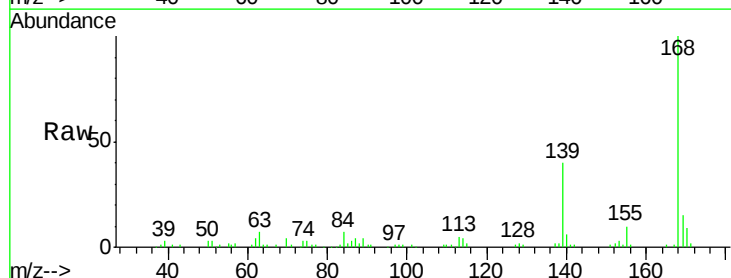
Concen: 7.28 ng

RT: 9.86 min Scan# 689

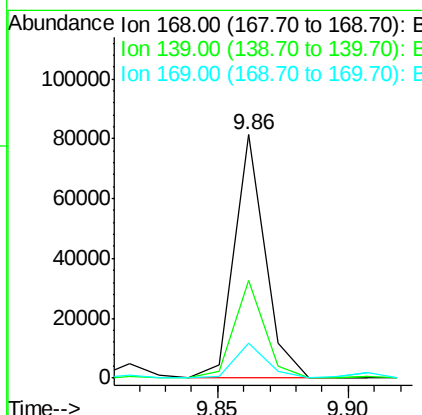
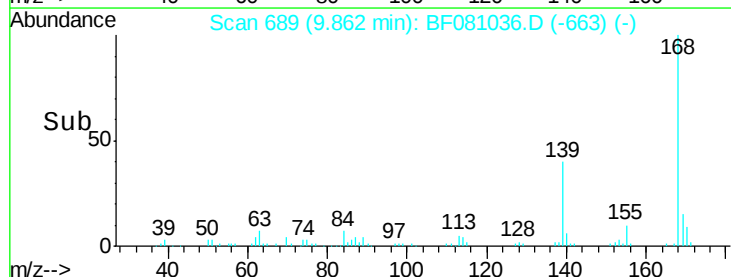
Delta R.T. 0.00 min

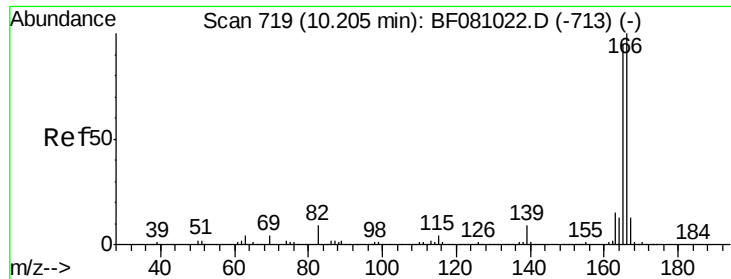
Lab File: BF081036.D

Acq: 18 Aug 2015 8:28



Tgt Ion:	168	Resp:	66915
Ion Ratio	Lower	Upper	
168	100		
139	39.9	29.3	43.9
169	14.6	10.3	15.5





#57

Fluorene

Concen: 11.50 ng

RT: 10.20 min Scan# 719

Delta R.T. -0.00 min

Lab File: BF081036.D

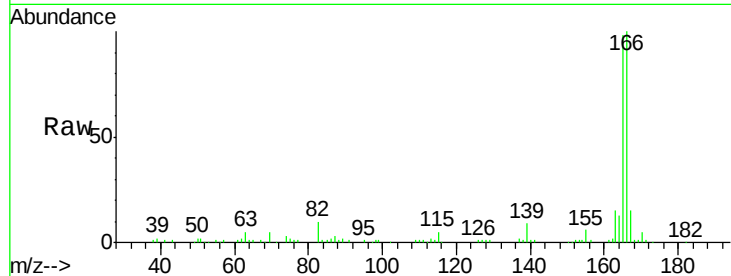
Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

ClientSampleId :

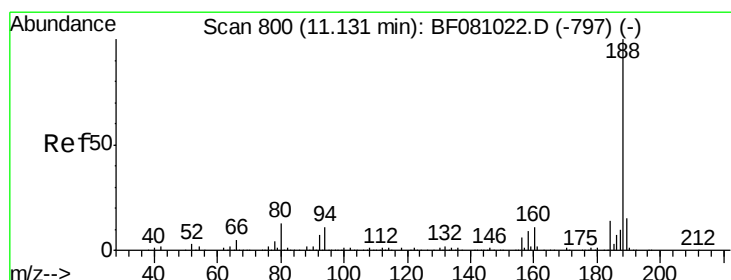
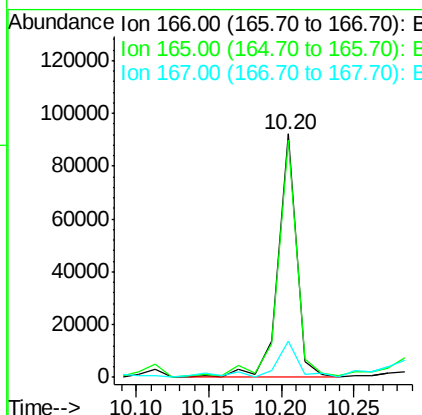
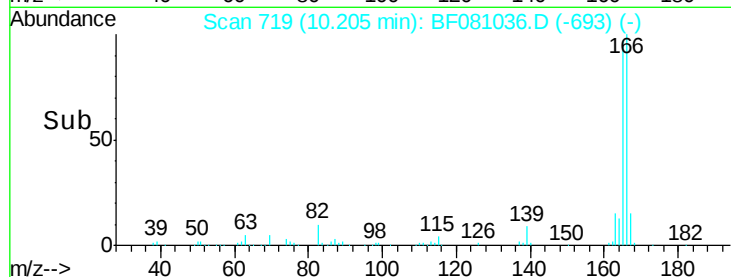
TEC-COMP



Tgt Ion:	166	Resp:	81333
Ion Ratio	Lower	Upper	
166	100		
165	97.5	75.8	113.8
167	15.1	11.3	16.9

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#63

Phenanthrene-d10

Concen: 20.00 ng

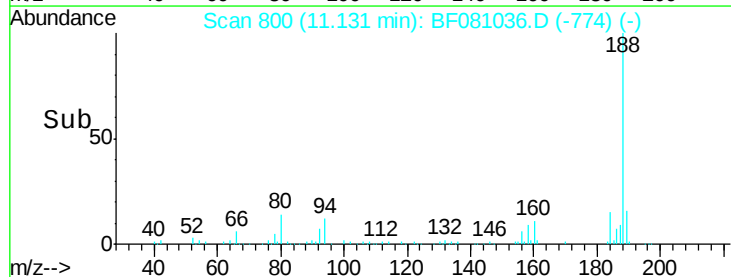
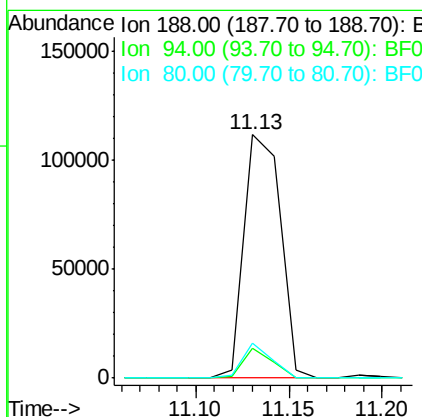
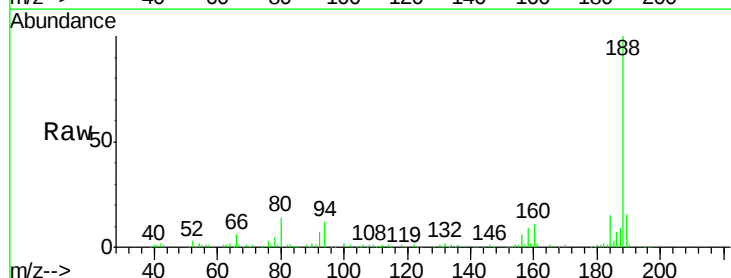
RT: 11.13 min Scan# 800

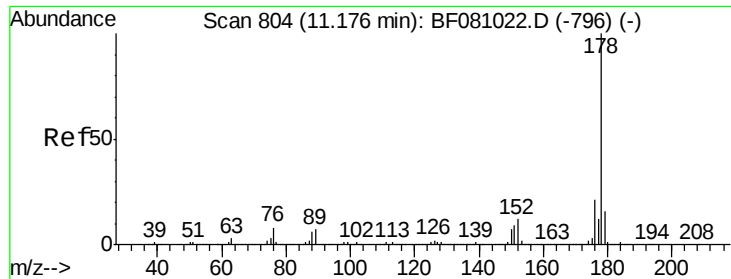
Delta R.T. 0.00 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Tgt Ion:	188	Resp:	151696
Ion Ratio	Lower	Upper	
188	100		
94	12.4	8.2	12.2#
80	14.4	9.5	14.3#





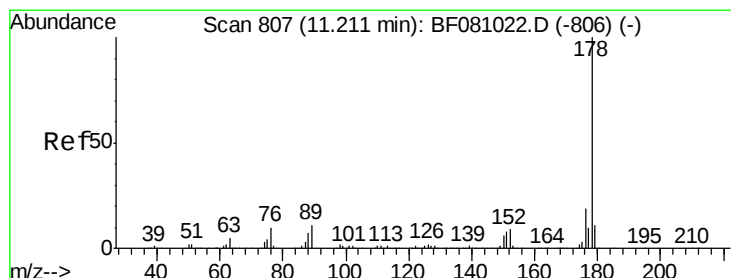
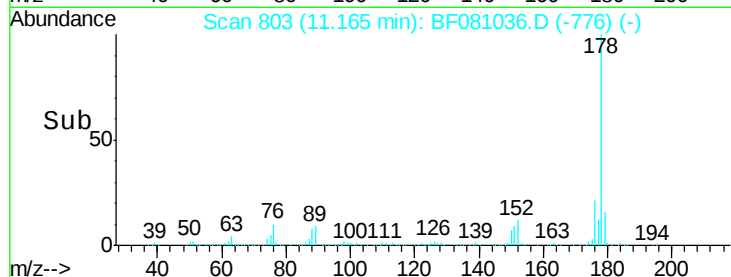
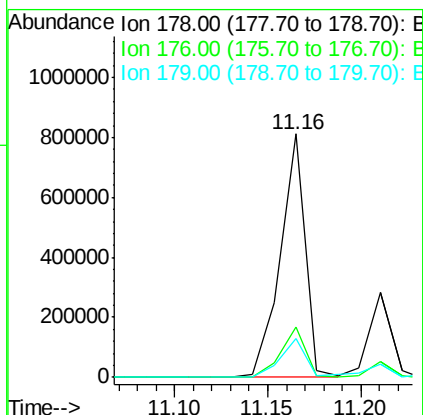
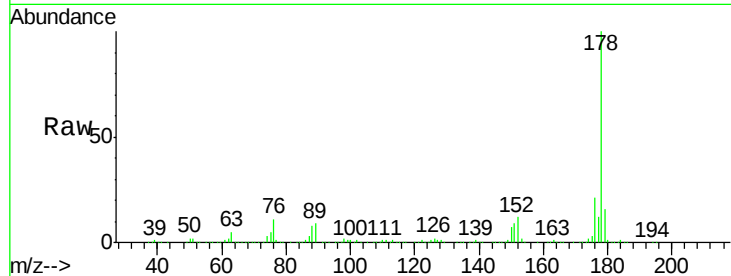
#70
Phenanthrene
Concen: 83.64 ng
RT: 11.16 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF081036.D
Acq: 18 Aug 2015 8:28

Instrument :
BNA_F
ClientSampleId :
TEC-COMP

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.6	15.7	23.5
179	15.7	12.2	18.2

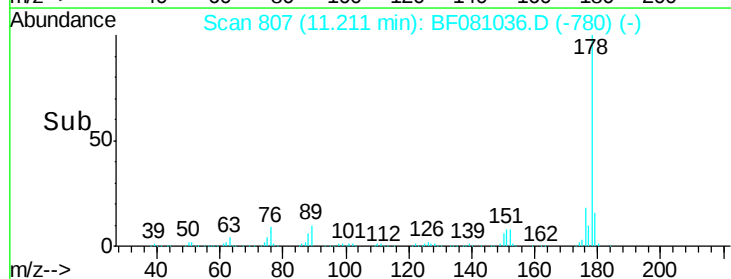
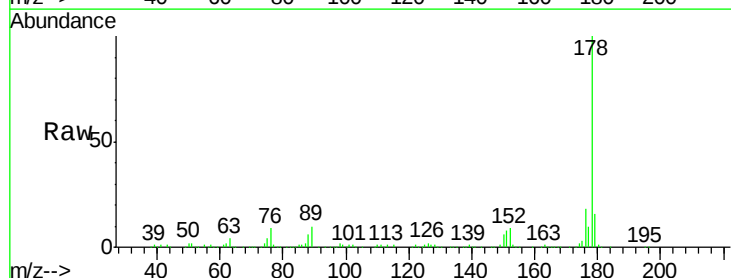
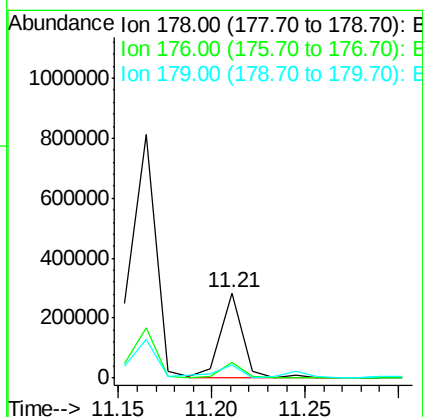
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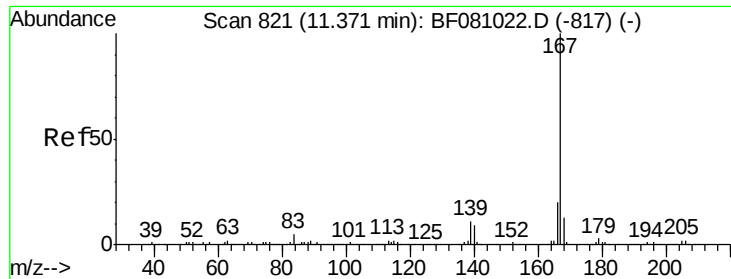
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#71
Anthracene
Concen: 27.09 ng
RT: 11.21 min Scan# 807
Delta R.T. 0.01 min
Lab File: BF081036.D
Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.7	23.5
179	15.8	12.7	19.1





#72

Carbazole

Concen: 7.56 ng

RT: 11.37 min Scan# 821

Delta R.T. 0.01 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

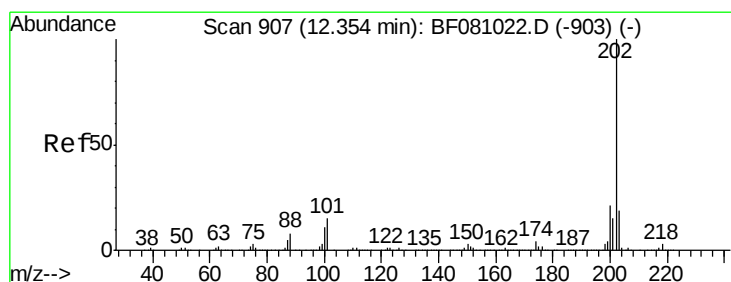
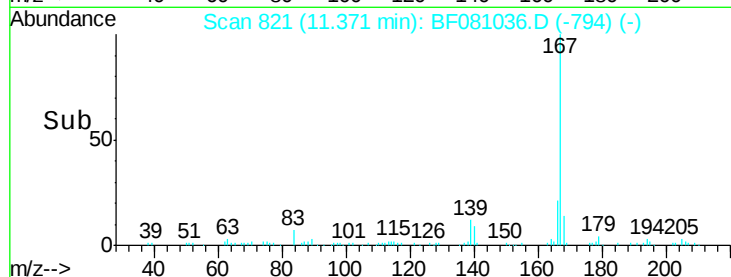
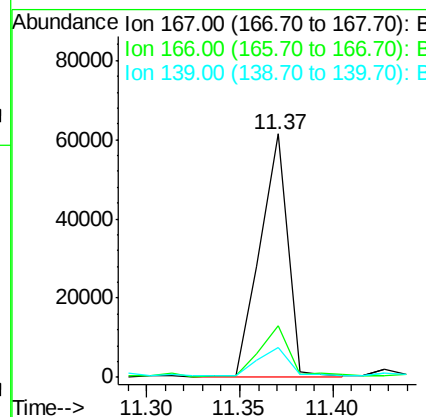
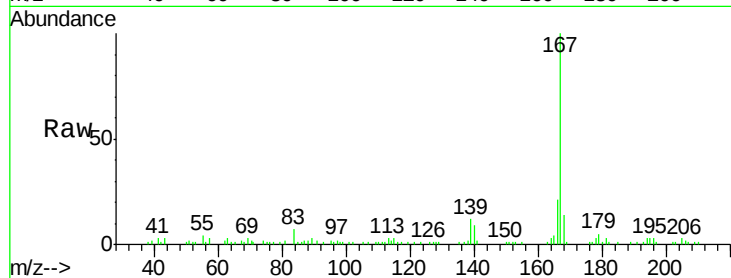
ClientSampleId :

TEC-COMP

Manual Integrations
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Tgt Ion:	167	Resp:	63712
Ion Ratio	Lower	Upper	
167	100		
166	21.5	17.4	26.0
139	12.3	10.6	16.0



#74

Fluoranthene

Concen: 105.15 ng

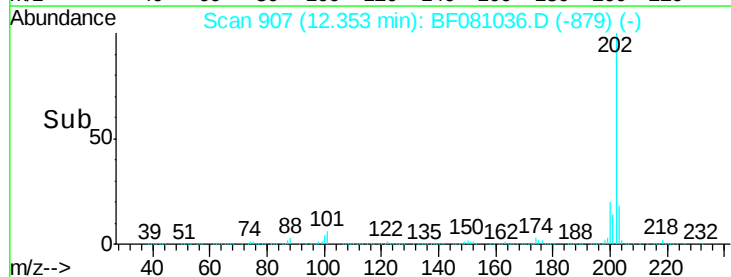
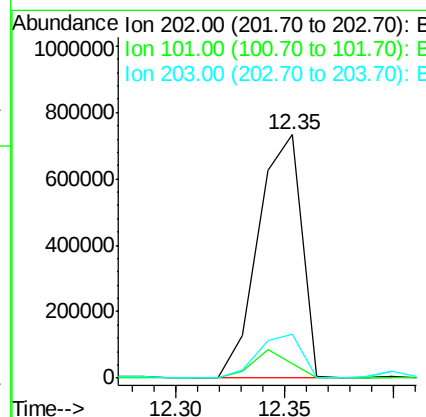
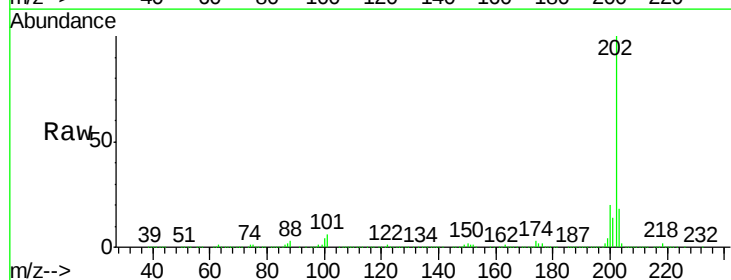
RT: 12.35 min Scan# 907

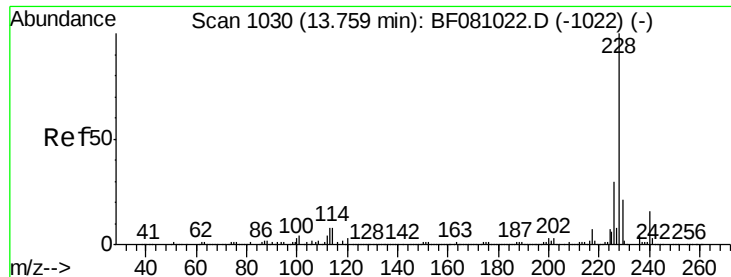
Delta R.T. 0.02 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Tgt Ion:	202	Resp:	1020094
Ion Ratio	Lower	Upper	
202	100		
101	6.0	0.0	24.8
203	18.1	0.0	36.9





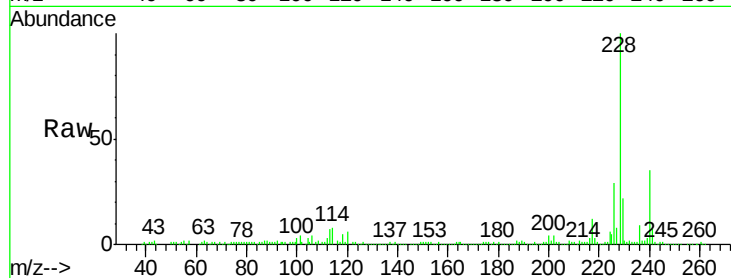
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 13.76 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP

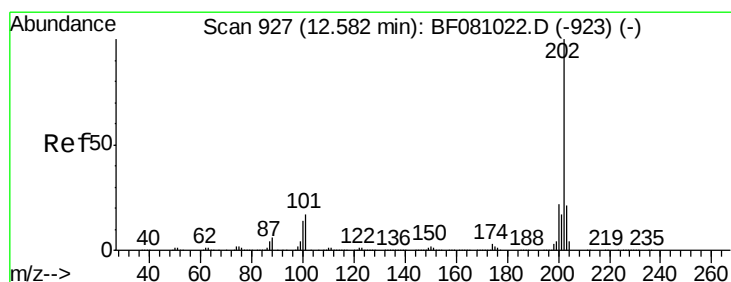
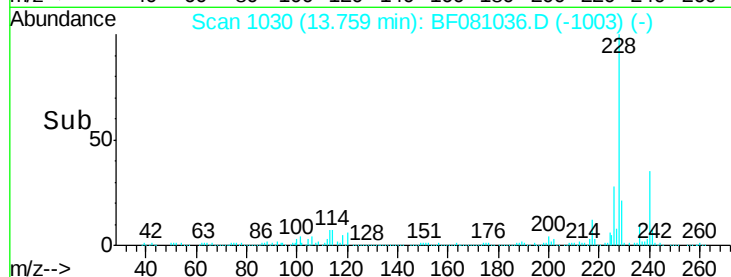
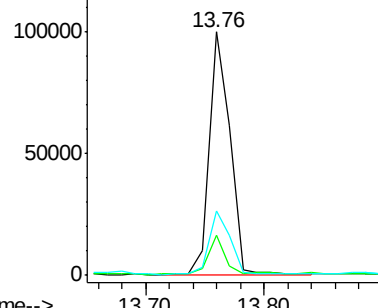
Tgt Ion	Ratio	Resp	Lower	Upper
240	100	120400		
120	16.4	5.6	8.4#	
236	26.5	20.6	30.8	

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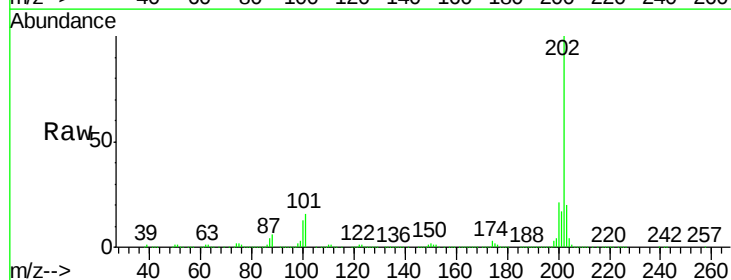


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

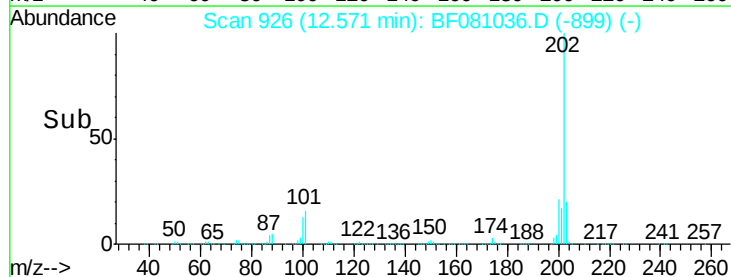
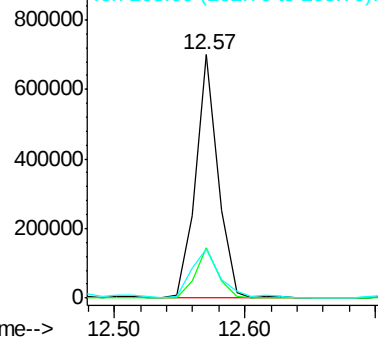


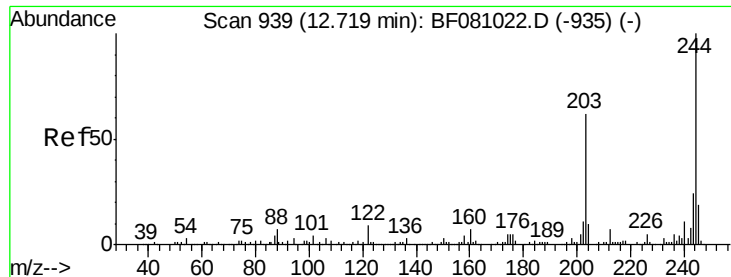
#77
 Pyrene
 Concen: 85.11 ng
 RT: 12.57 min Scan# 926
 Delta R.T. 0.01 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	833046		
200	20.8	16.6	24.8	
203	20.1	14.1	21.1	



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





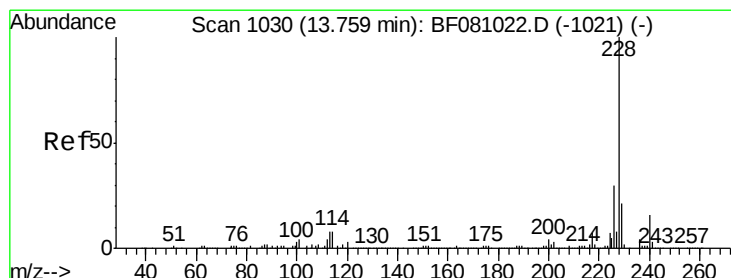
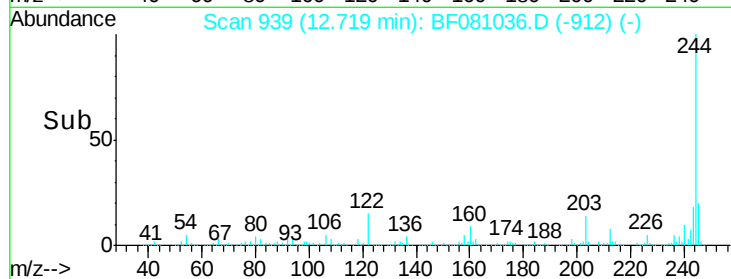
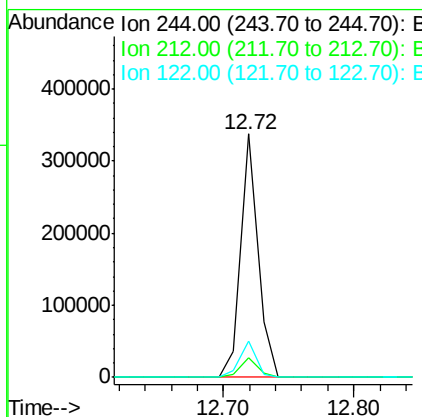
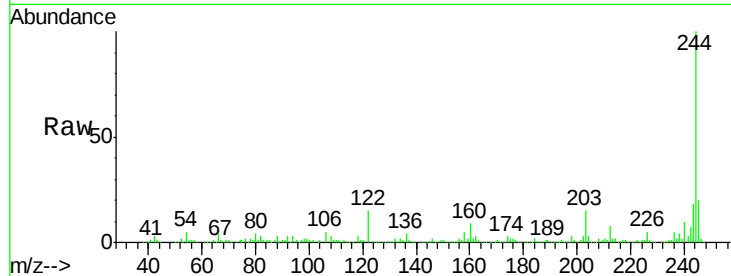
#78
 Terphenyl-d14
 Concen: 55.41 ng
 RT: 12.72 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	8.2	5.8	8.8
122	14.8	8.2	12.4

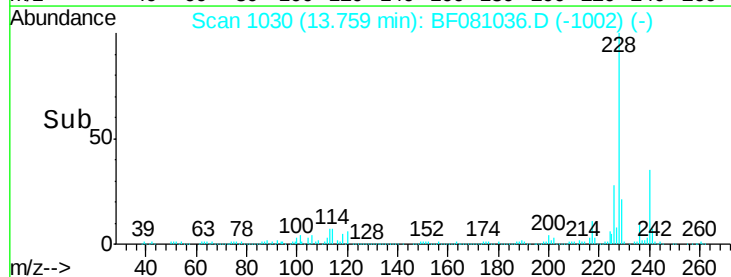
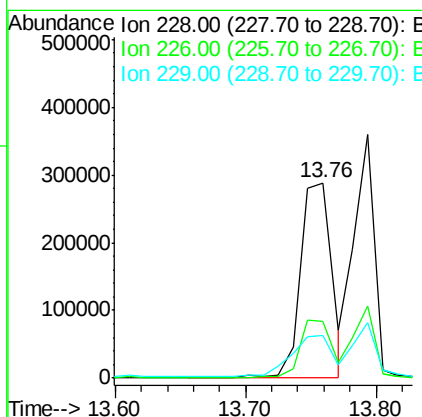
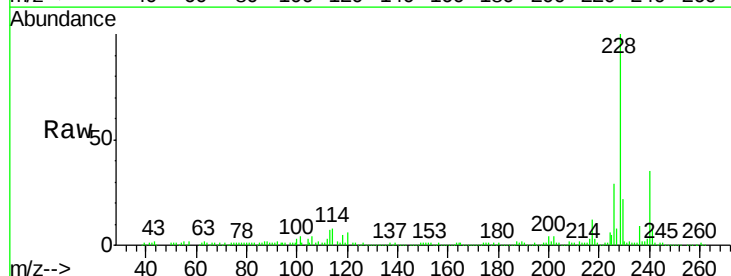
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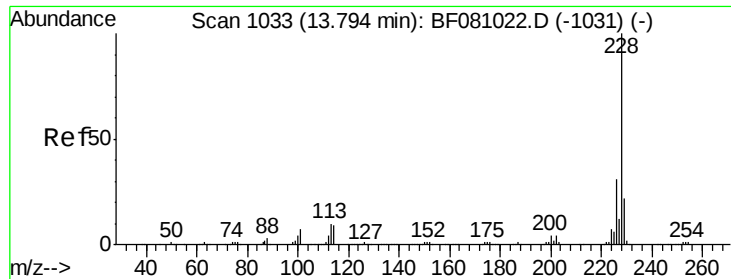
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#80
 Benzo(a)anthracene
 Concen: 58.86 ng
 RT: 13.76 min Scan# 1030
 Delta R.T. 0.02 min
 Lab File: BF081036.D
 Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	28.8	22.3	33.5
229	21.6	15.9	23.9





#82

Chrysene

Concen: 53.08 ng

RT: 13.79 min Scan# 1033

Delta R.T. 0.02 min

Lab File: BF081036.D

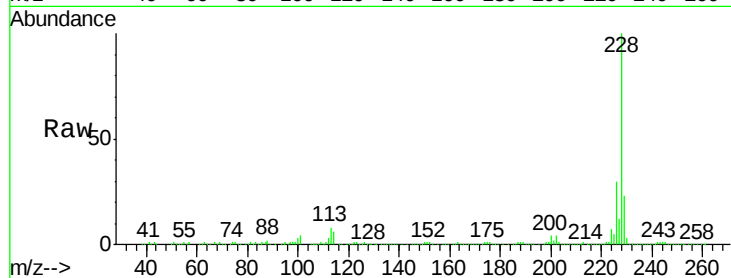
Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

ClientSampleId :

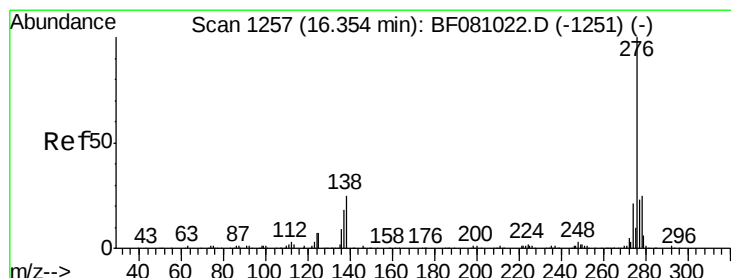
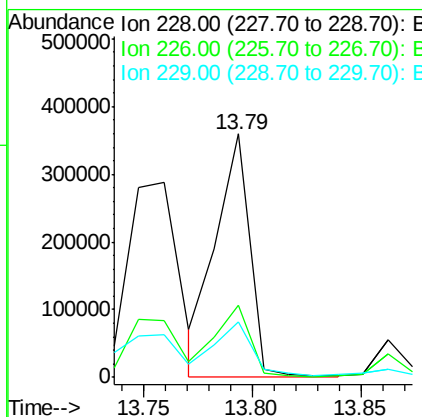
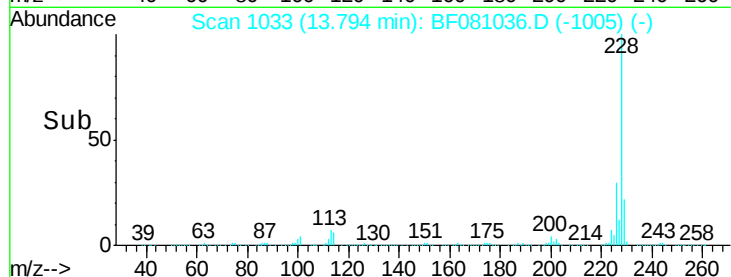
TEC-COMP



Tgt Ion:	228	Resp:	386269
Ion Ratio	Lower	Upper	
228	100		
226	29.7	24.4	36.6
229	22.6	16.0	24.0

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 20.89 ng

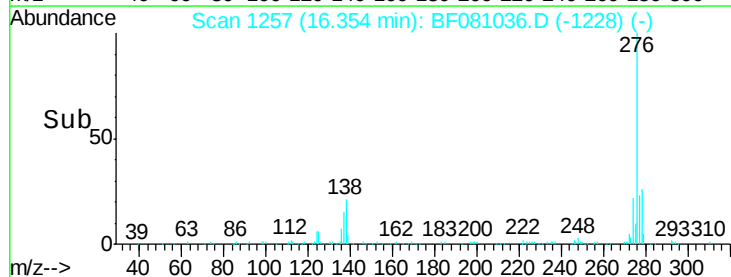
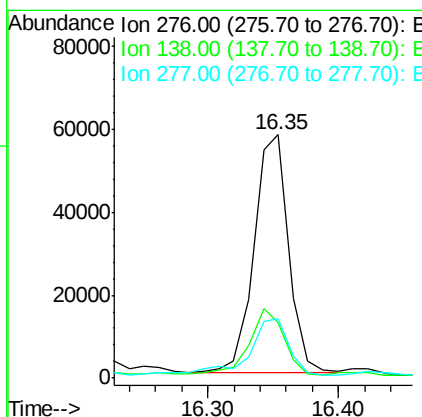
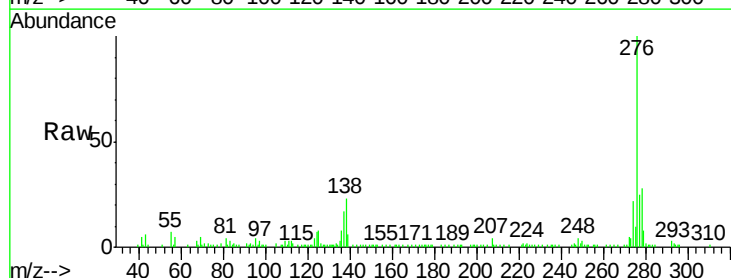
RT: 16.35 min Scan# 1257

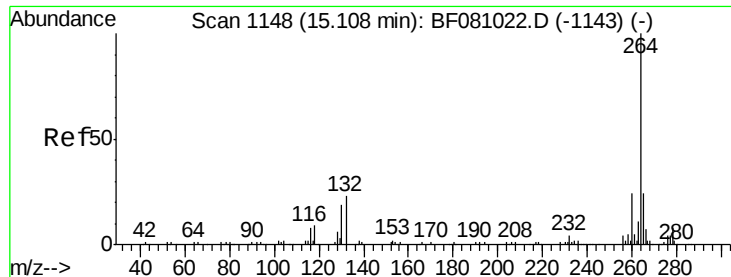
Delta R.T. 0.03 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Tgt Ion:	276	Resp:	106712
Ion Ratio	Lower	Upper	
276	100		
138	27.5	18.6	28.0
277	28.1	19.8	29.8





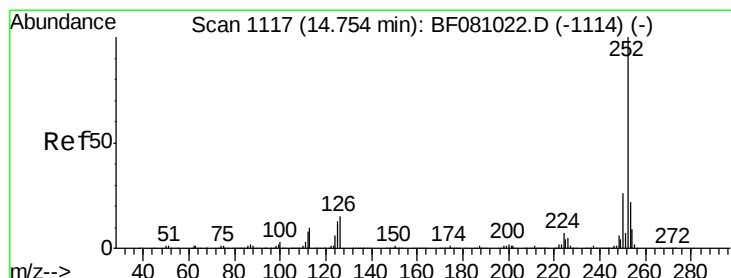
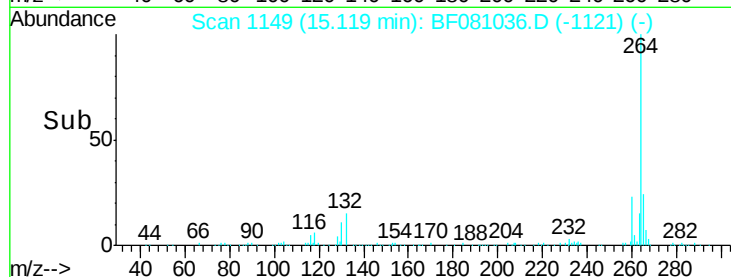
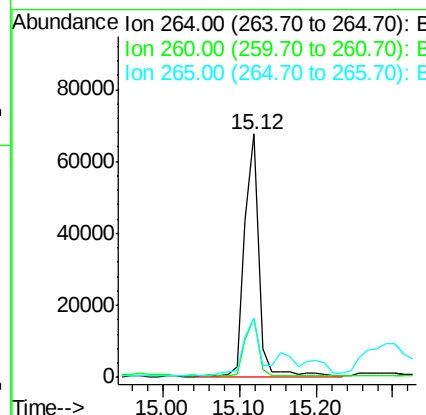
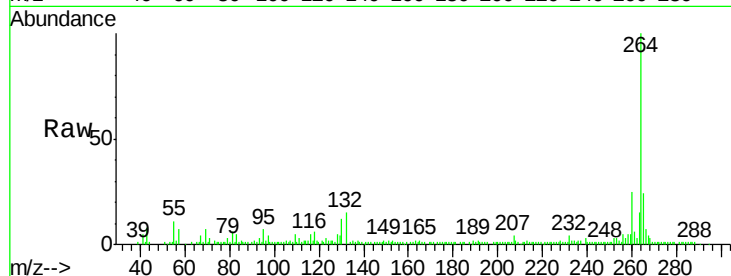
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1149
Delta R.T. 0.02 min
Lab File: BF081036.D
Acq: 18 Aug 2015 8:28

Instrument :
BNA_F
ClientSampleId :
TEC-COMP

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.6	29.4
265	24.4	17.5	26.3

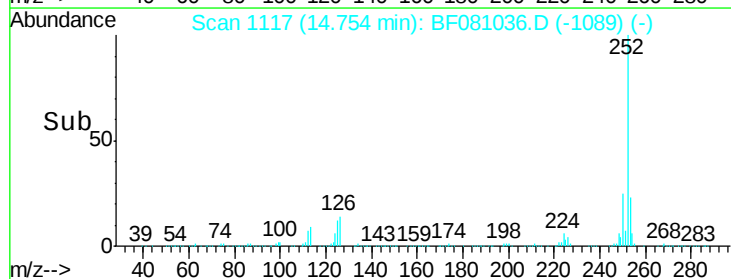
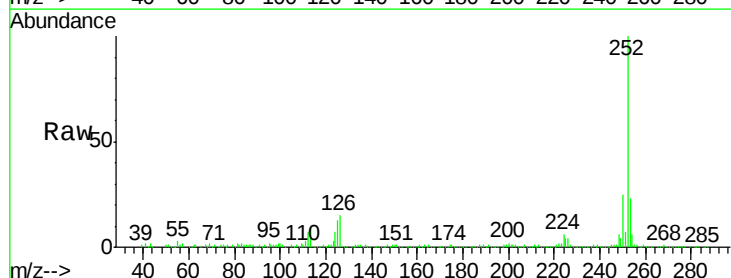
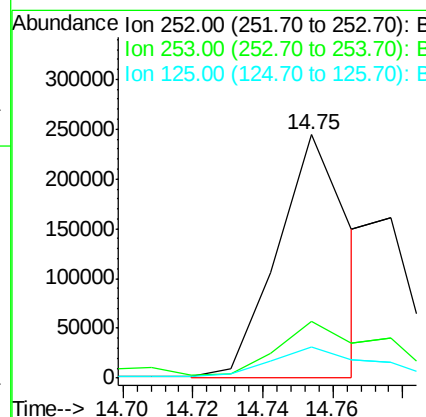
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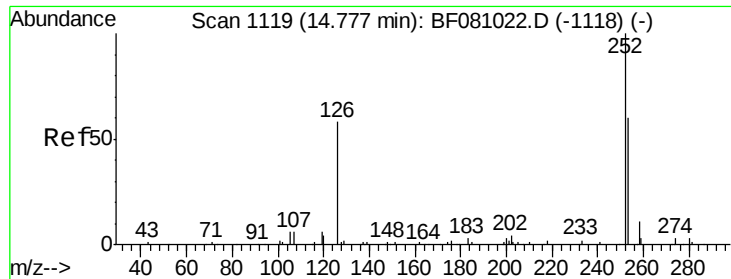
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#87
Benzo(b)fluoranthene
Concen: 53.82 ng m
RT: 14.75 min Scan# 1117
Delta R.T. 0.02 min
Lab File: BF081036.D
Acq: 18 Aug 2015 8:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	12.9	8.0	12.0#





#88

Benzo(k)fluoranthene

Concen: 20.43 ng m

RT: 14.78 min Scan# 1119

Delta R.T. 0.01 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

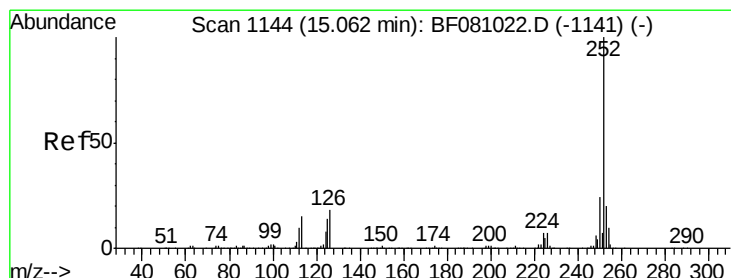
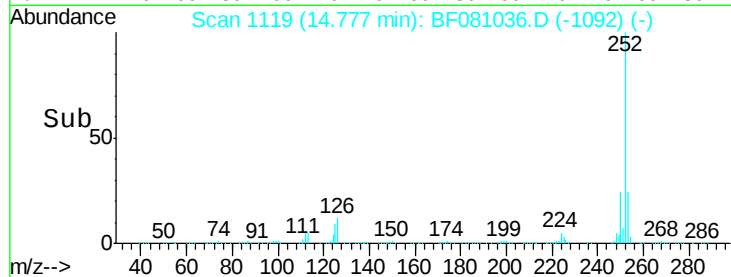
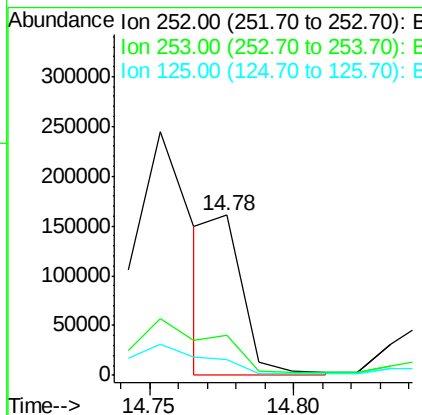
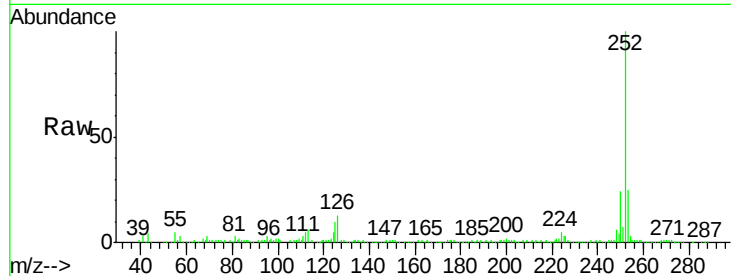
ClientSampleId :

TEC-COMP

Tgt Ion:	252	Resp:	123547
Ion Ratio		Lower	Upper
252	100		
253	25.0	17.6	26.4
125	9.8	10.3	15.5#

Manual Integrations
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#89

Benzo(a)pyrene

Concen: 42.68 ng

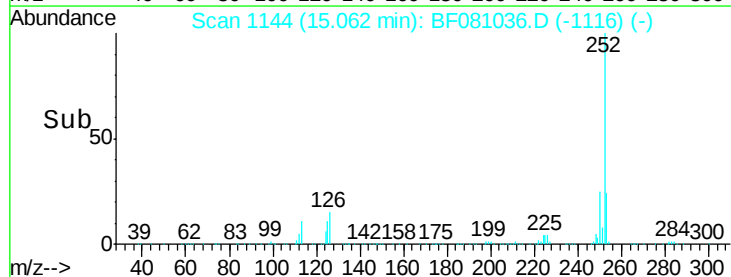
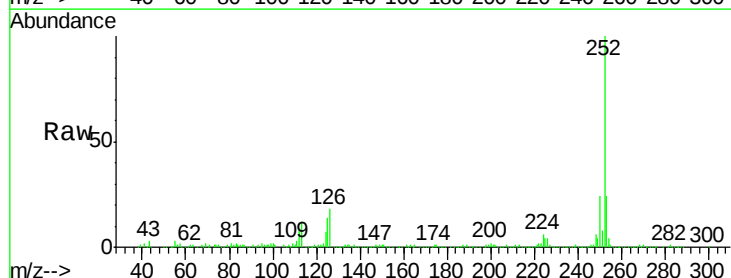
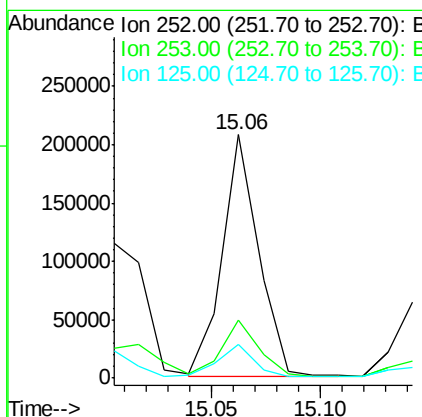
RT: 15.06 min Scan# 1144

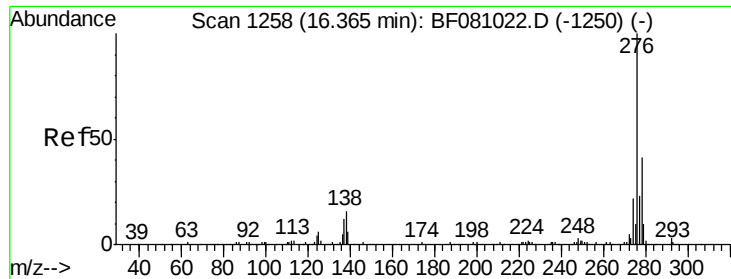
Delta R.T. 0.02 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Tgt Ion:	252	Resp:	241375
Ion Ratio		Lower	Upper
252	100		
253	23.9	16.6	25.0
125	13.7	7.8	11.8#





#90

Dibenzo(a,h)anthracene

Concen: 8.87 ng

RT: 16.35 min Scan# 1257

Delta R.T. 0.01 min

Lab File: BF081036.D

Acq: 18 Aug 2015 8:28

Instrument :

BNA_F

ClientSampleId :

TEC-COMP

Tgt Ion: 278 Resp: 39077
Ion Ratio Lower Upper

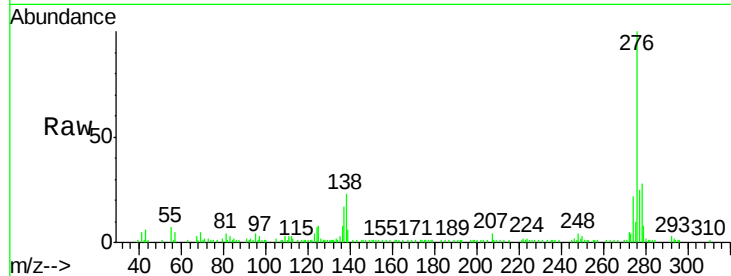
278 100

139 22.2 10.8 16.2#

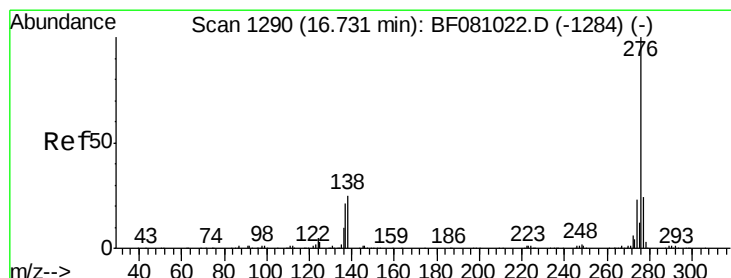
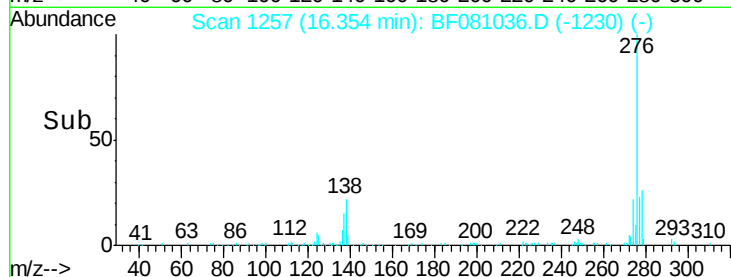
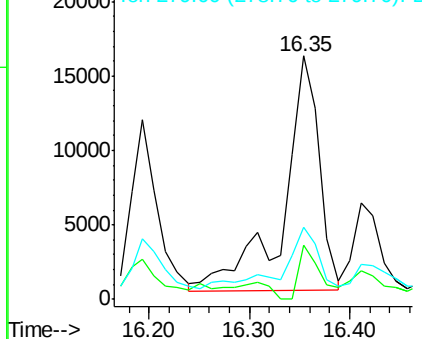
279 29.5 19.0 28.6#

Manual Integrations
APPROVED

MMDadoda
8/18/2015 5:13:37 PM



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(g,h,i)perylene

Concen: 23.45 ng

RT: 16.72 min Scan# 1289

Delta R.T. 0.03 min

Lab File: BF081036.D

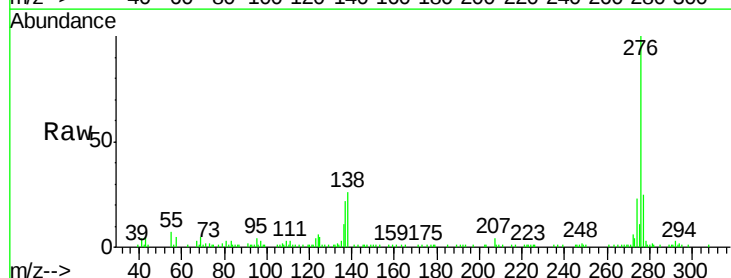
Acq: 18 Aug 2015 8:28

Tgt Ion: 276 Resp: 104817
Ion Ratio Lower Upper

276 100

277 24.7 18.2 27.2

138 25.9 13.7 20.5#



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

