

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF081715\
 Data File : BF081037.D
 Acq On : 18 Aug 2015 8:59
 Operator : UM/IZ
 Sample : G3283-03
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP16

Manual Integrations
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 8/18/2015 5:13:42 PM

Quant Time: Aug 18 11:56:28 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	59098	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	227784	20.00	ng	0.01
38) Acenaphthene-d10	9.66	164	95875	20.00	ng	0.00
63) Phenanthrene-d10	11.13	188	173305	20.00	ng	0.00
75) Chrysene-d12	13.76	240	126285	20.00	ng	0.01
86) Perylene-d12	15.12	264	97136	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	583073	148.40	ng	0.03
7) Phenol-d6	6.28	99	794691	155.01	ng	0.02
23) Nitrobenzene-d5	7.20	82	436897	87.62	ng	0.01
41) 2,4,6-Tribromophenol	10.44	330	99241	119.41	ng	0.00
44) 2-Fluorobiphenyl	8.99	172	614004	83.91	ng	0.00
78) Terphenyl-d14	12.72	244	470159	79.81	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	7.93	128	192409	15.15	ng	99
37) 2-Methylnaphthalene	8.63	142	68104	8.49	ng	96
48) Acenaphthylene	9.52	152	26151	2.15	ng	# 97
49) Dimethylphthalate	9.39	163	186093	23.57	ng	99
51) Acenaphthene	9.69	154	110516	15.21	ng	100
54) Dibenzofuran	9.86	168	118636	12.19	ng	95
57) Fluorene	10.20	166	143782	19.20	ng	99
70) Phenanthrene	11.16	178	832030	81.01	ng	99
71) Anthracene	11.21	178	282329	28.25	ng	100
72) Carbazole	11.37	167	149418	15.53	ng	97
74) Fluoranthene	12.35	202	1182200	106.67	ng	95
77) Pyrene	12.57	202	837743	81.60	ng	97
80) Benzo(a)anthracene	13.76	228	517511	61.11	ng	98
82) Chrysene	13.79	228	401625	52.62	ng	98
85) Indeno(1,2,3-cd)pyrene	16.35	276	155236	28.97	ng	93
87) Benzo(b)fluoranthene	14.75	252	426458m	62.07	ng	
88) Benzo(k)fluoranthene	14.78	252	155557m	24.30	ng	
89) Benzo(a)pyrene	15.06	252	287357	48.00	ng	# 90
90) Dibenzo(a,h)anthracene	16.35	278	39624	8.49	ng	# 85
91) Benzo(g,h,i)perylene	16.72	276	141350	29.87	ng	# 88

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

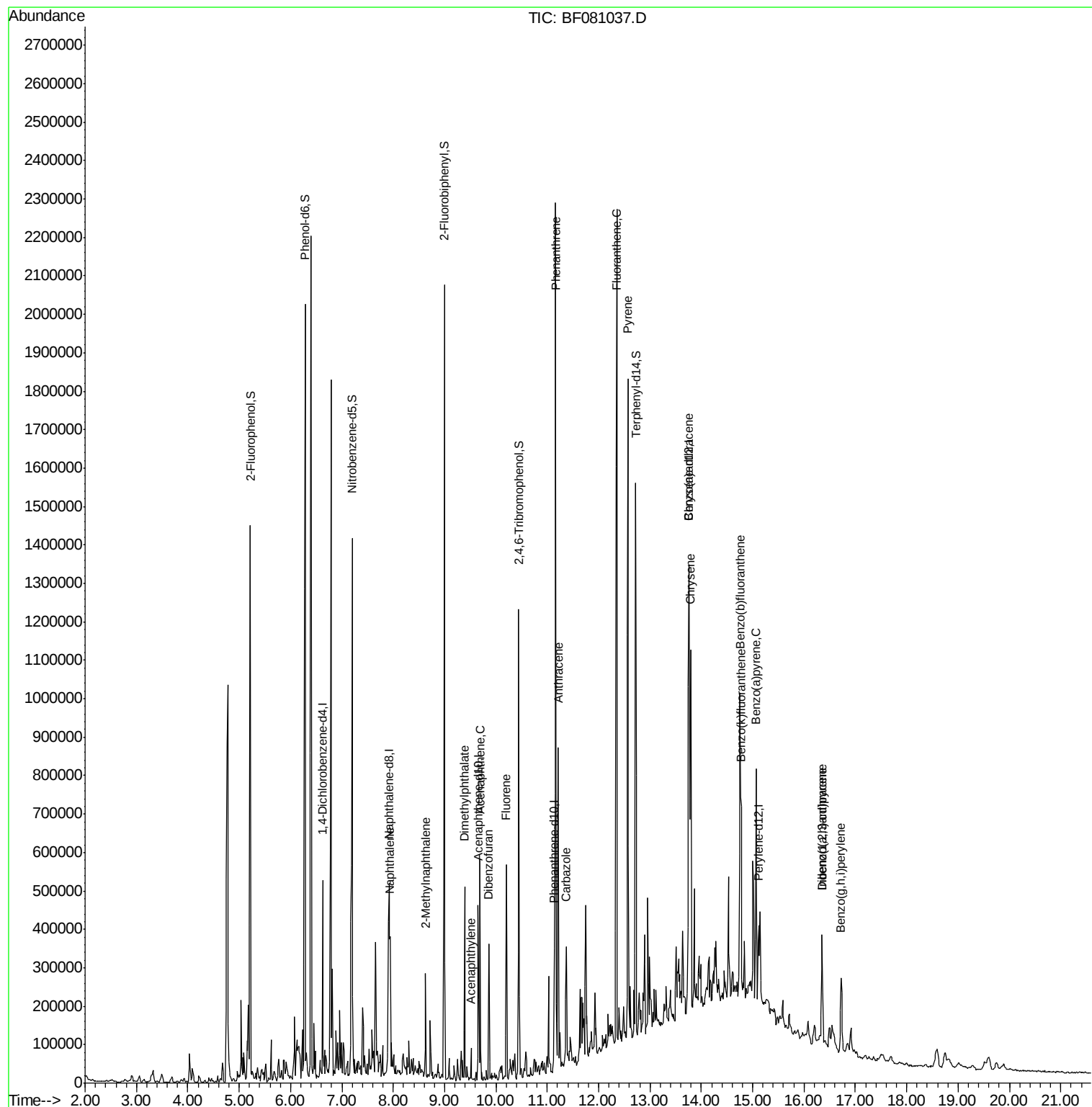
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#1

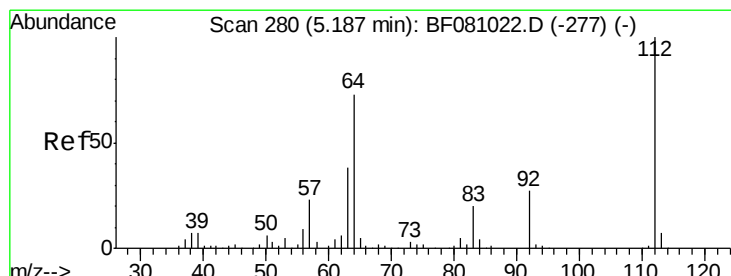
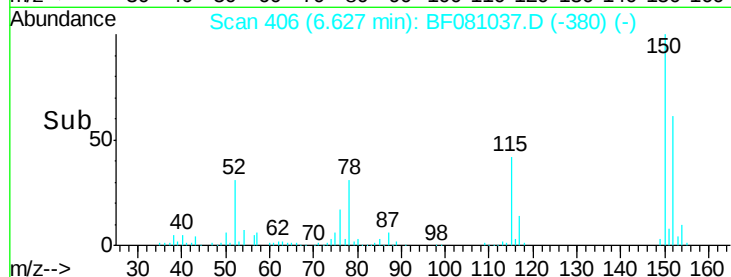
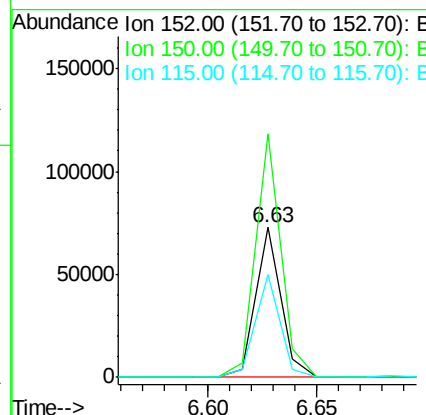
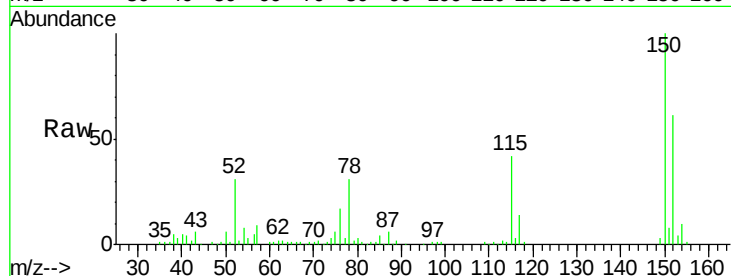
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.63 min Scan# 406
Delta R.T. 0.00 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	59098		
150	162.7	123.8	185.6	
115	69.2	52.1	78.1	

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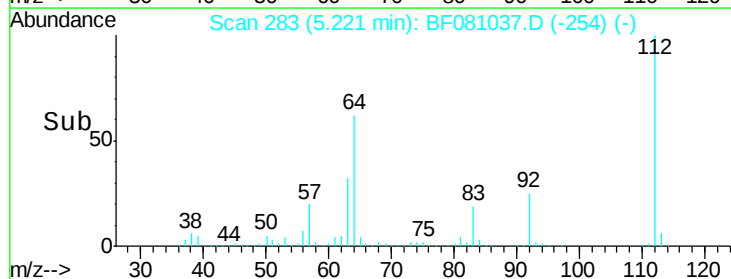
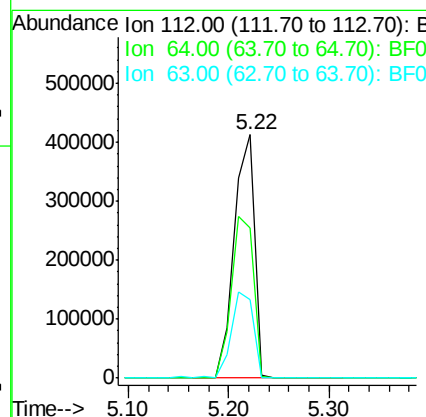
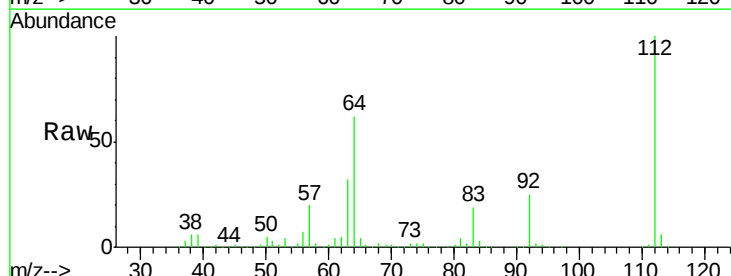
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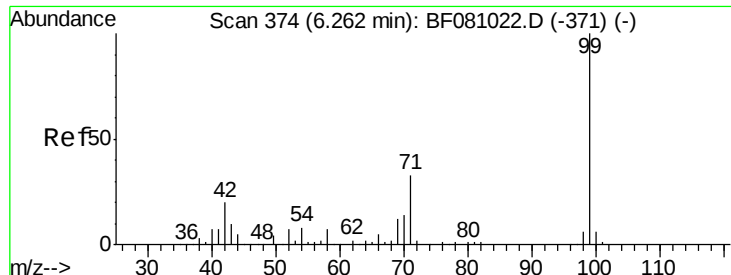


#5

2-Fluorophenol
Concen: 148.40 ng
RT: 5.22 min Scan# 283
Delta R.T. 0.03 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	583073		
64	61.6	66.9	100.3#	
63	32.5	38.1	57.1#	





#7

Phenol-d6

Concen: 155.01 ng

RT: 6.28 min Scan# 376

Delta R.T. 0.02 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Instrument :

BNA_F

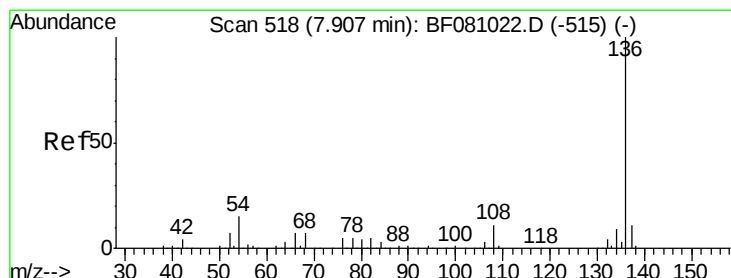
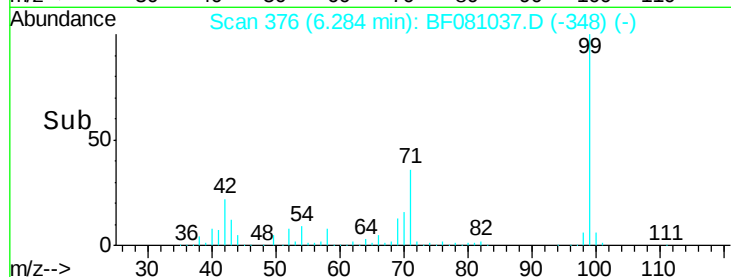
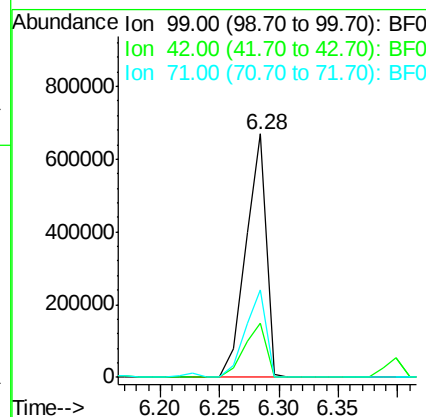
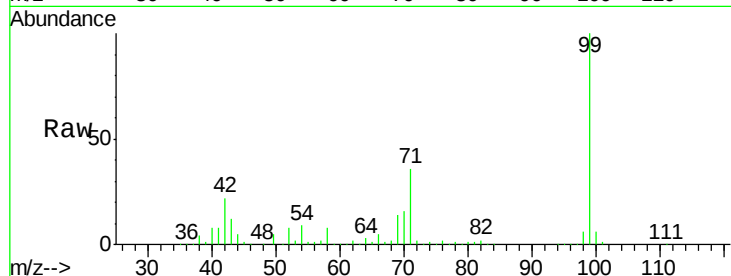
ClientSampleId :

TEC-COMP16

Tgt Ion:	99	Resp:	794691
Ion Ratio	Lower	Upper	
99	100		
42	22.4	19.6	29.4
71	36.1	31.2	46.8

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#21

Naphthalene-d8

Concen: 20.00 ng

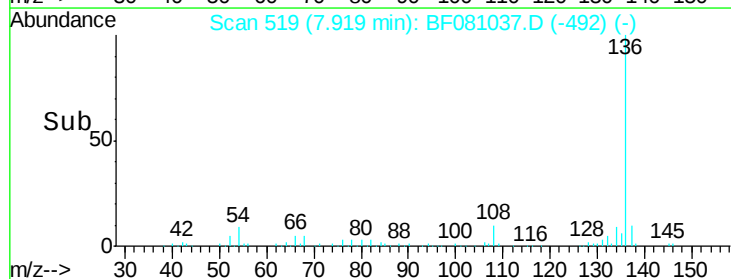
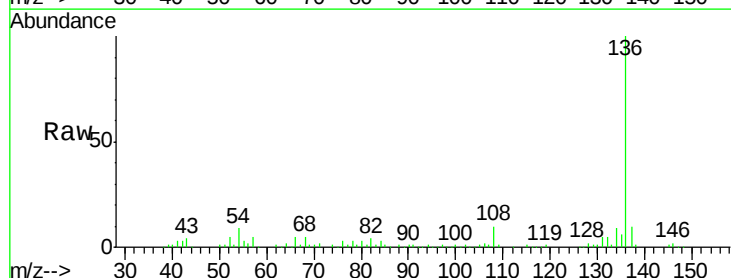
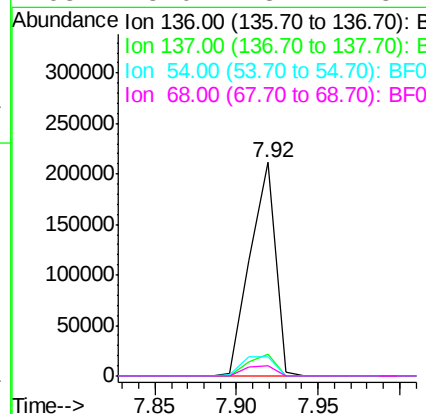
RT: 7.92 min Scan# 519

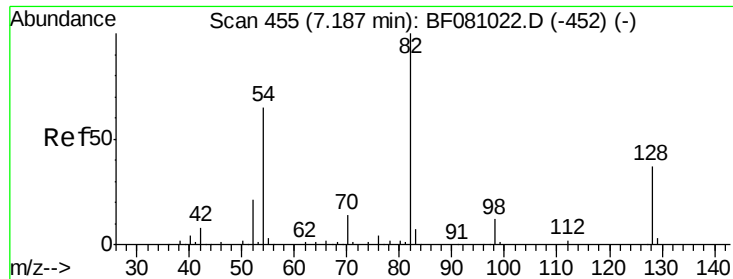
Delta R.T. 0.01 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Tgt Ion:	136	Resp:	227784
Ion Ratio	Lower	Upper	
136	100		
137	10.3	8.2	12.2
54	8.8	7.7	11.5
68	5.0	3.4	5.2





#23

Nitrobenzene-d5

Concen: 87.62 ng

RT: 7.20 min Scan# 456

Delta R.T. 0.01 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Instrument :

BNA_F

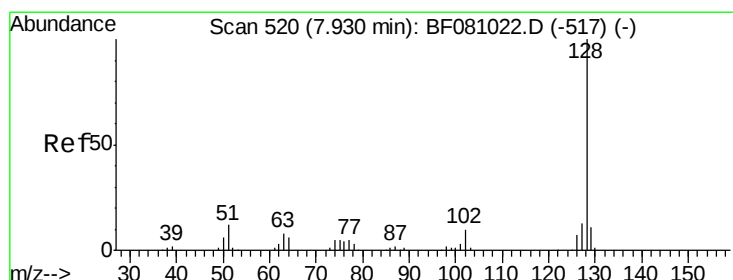
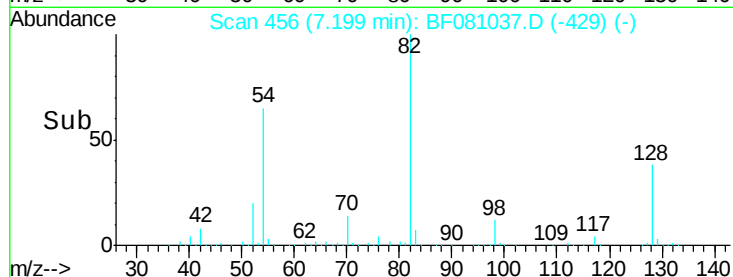
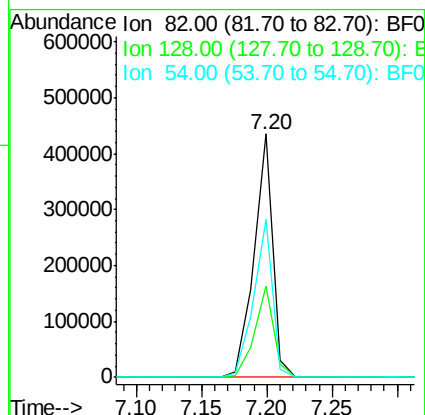
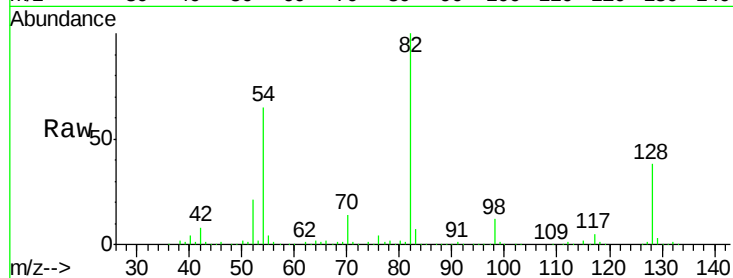
ClientSampleId :

TEC-COMP16

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	436897		
128	37.6	28.6	42.8	
54	65.0	55.1	82.7	

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#31

Naphthalene

Concen: 15.15 ng

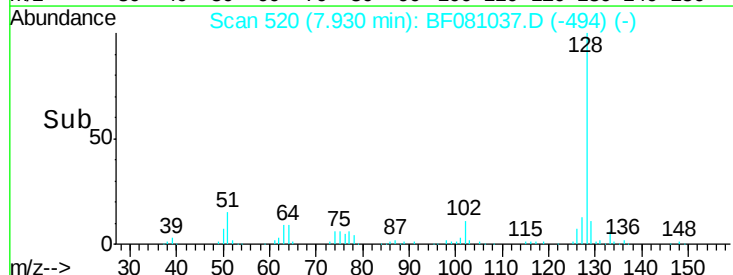
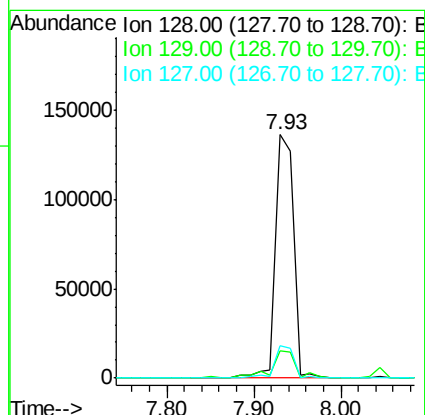
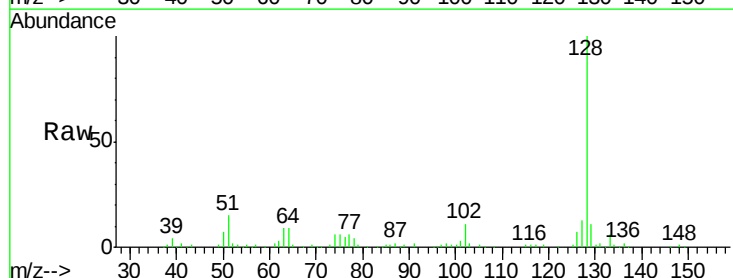
RT: 7.93 min Scan# 520

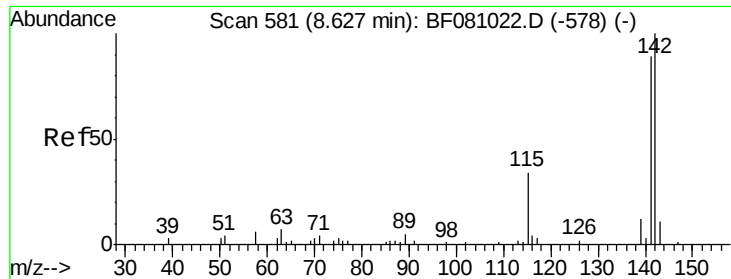
Delta R.T. 0.00 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	192409		
129	11.2	8.4	12.6	
127	13.1	10.6	16.0	





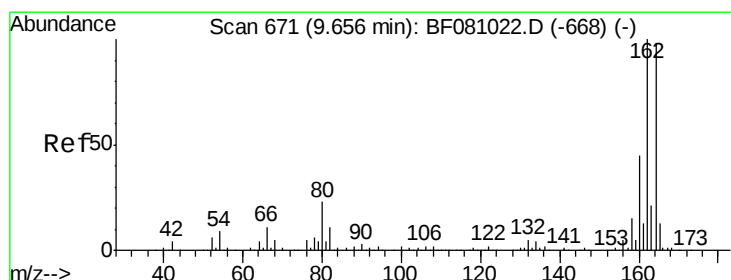
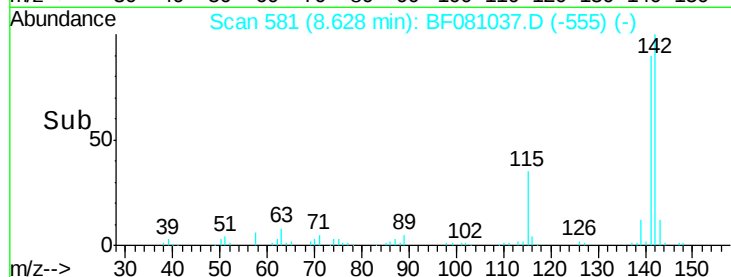
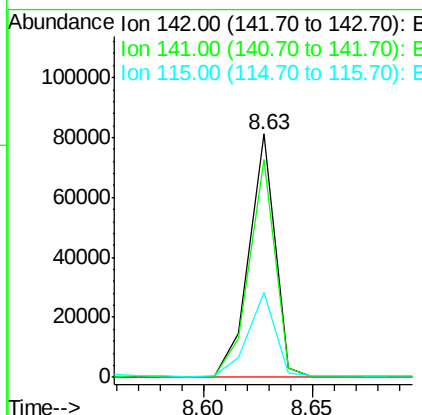
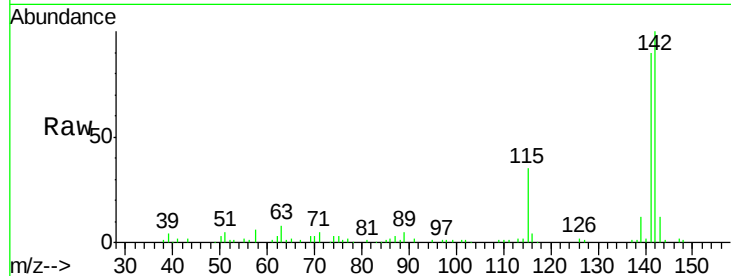
#37
 2-Methylnaphthalene
 Concen: 8.49 ng
 RT: 8.63 min Scan# 581
 Delta R.T. 0.00 min
 Lab File: BF081037.D
 Acq: 18 Aug 2015 8:59

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP16

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.4	107.2
115	34.8	33.4	50.0

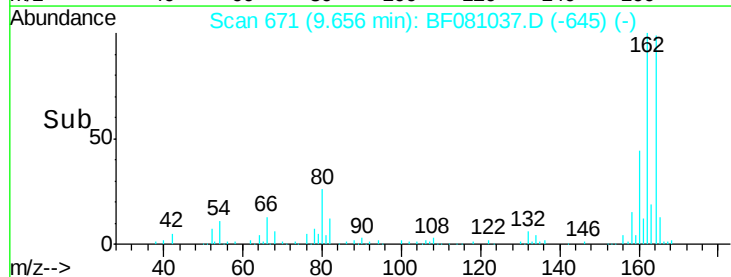
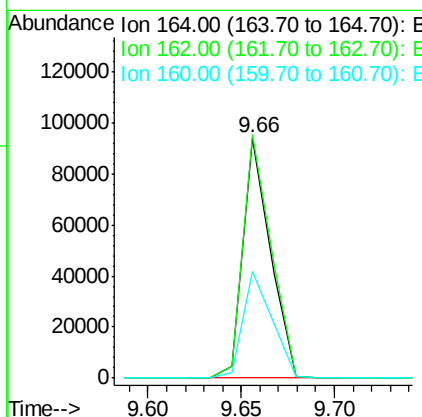
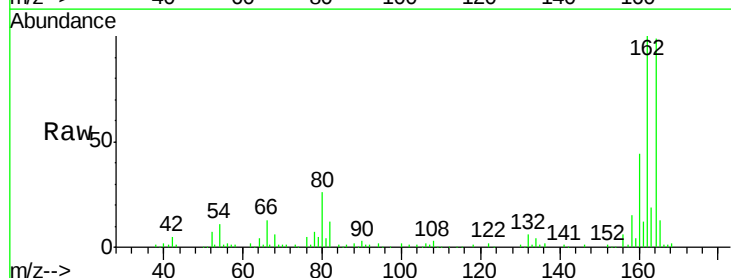
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.66 min Scan# 671
 Delta R.T. 0.00 min
 Lab File: BF081037.D
 Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	83.8	125.8
160	44.2	39.8	59.8





#41

2,4,6-Tribromophenol

Concen: 119.41 ng

RT: 10.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF081037.D

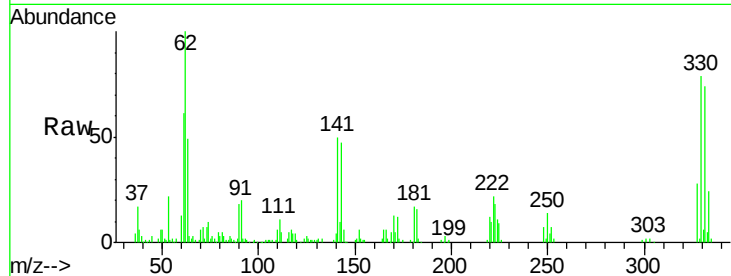
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Instrument :

BNA_F

ClientSampleId :

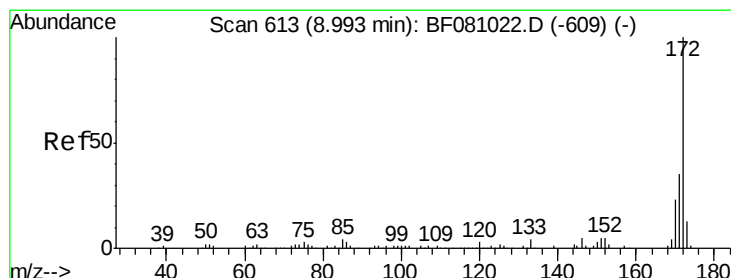
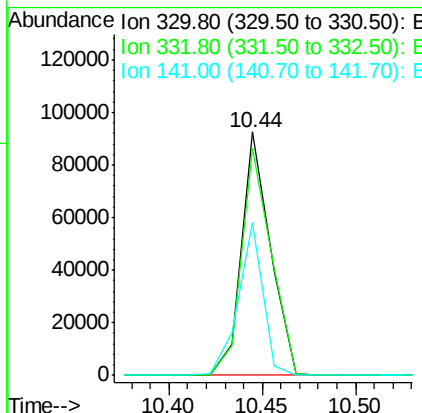
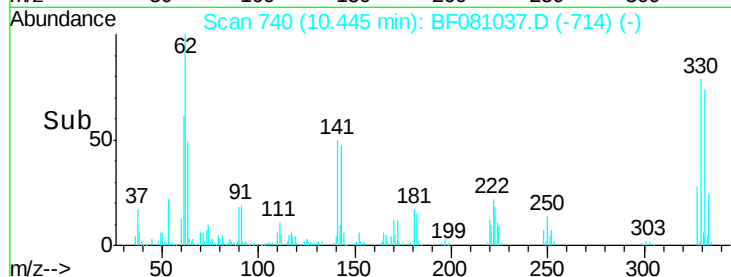
TEC-COMP16



Tgt Ion:	330	Resp:	99241
Ion Ratio	Lower	Upper	
330	100		
332	96.3	77.3	115.9
141	54.6	44.9	67.3

Manual Integrations
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#44

2-Fluorobiphenyl

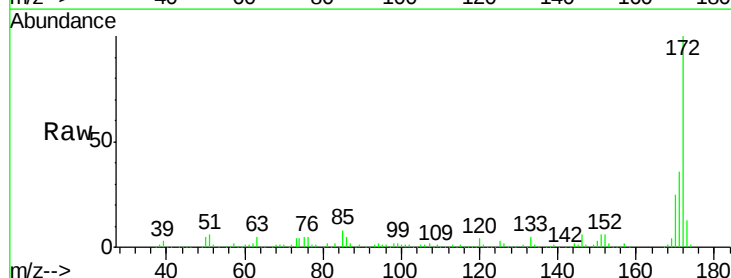
Concen: 83.91 ng

RT: 8.99 min Scan# 613

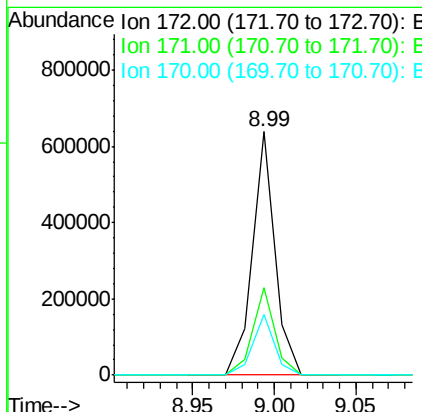
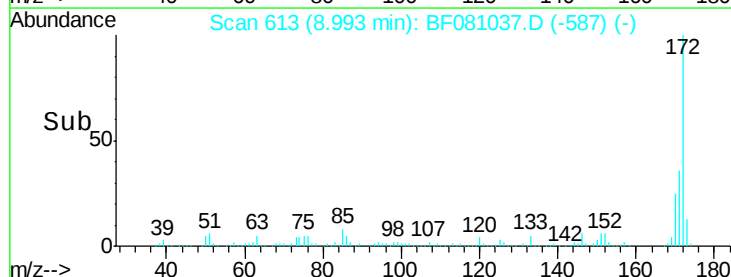
Delta R.T. 0.00 min

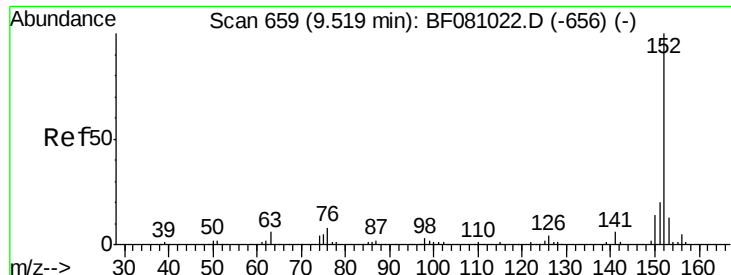
Lab File: BF081037.D

Acq: 18 Aug 2015 8:59



Tgt Ion:	172	Resp:	614004
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.9	43.3
170	24.6	19.4	29.2





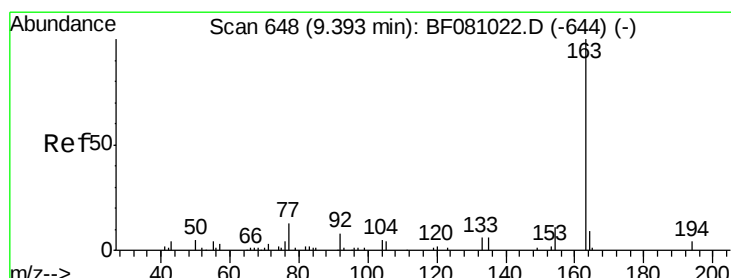
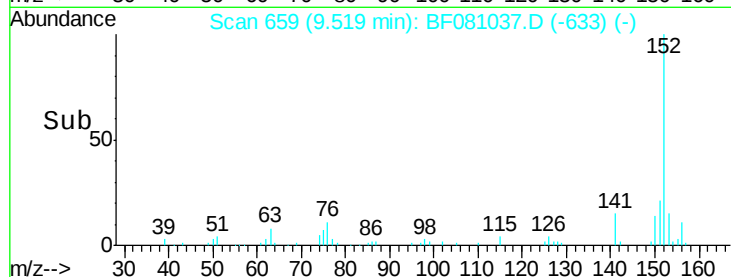
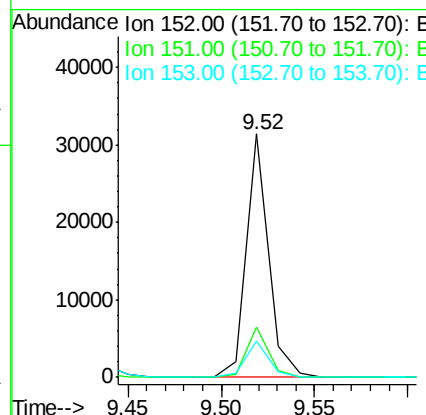
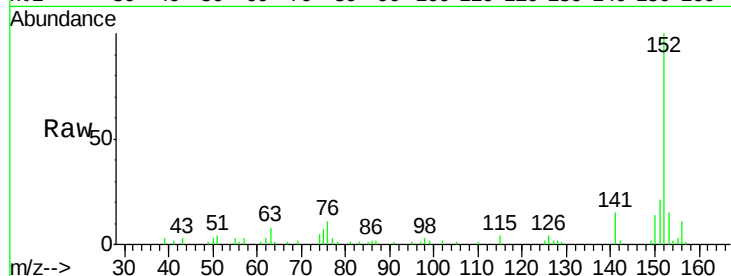
#48
Acenaphthylene
Concen: 2.15 ng
RT: 9.52 min Scan# 659
Delta R.T. 0.00 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion	Ratio	Resp Lower	Resp Upper
152	100		
151	20.6	16.1	24.1
153	14.8	9.8	14.6

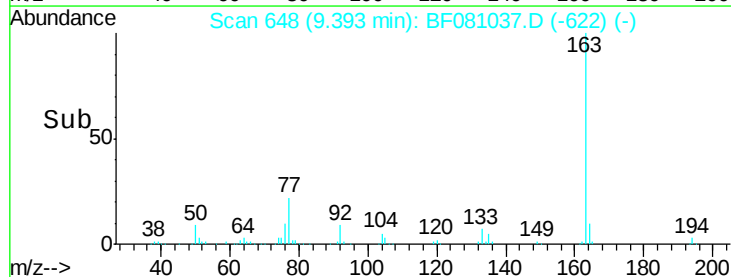
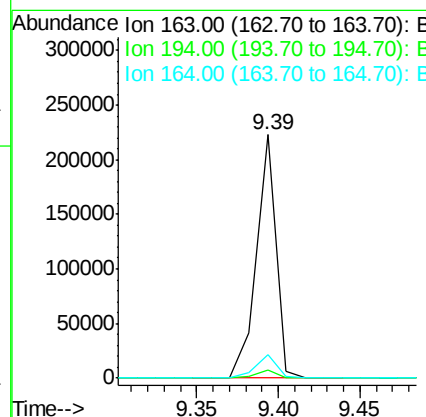
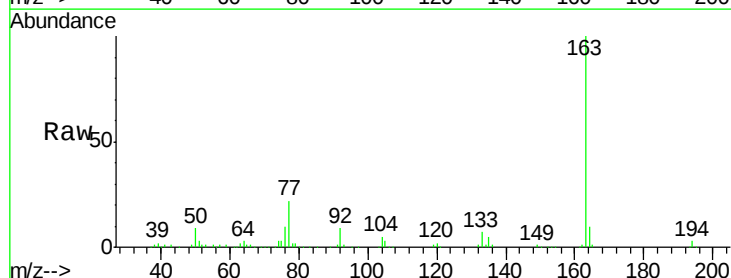
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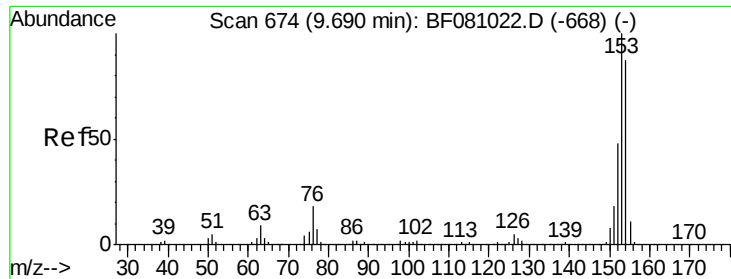
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#49
Dimethylphthalate
Concen: 23.57 ng
RT: 9.39 min Scan# 648
Delta R.T. 0.00 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	3.4	2.5	3.7
164	9.9	8.1	12.1





#51

Acenaphthene

Concen: 15.21 ng

RT: 9.69 min Scan# 674

Delta R.T. 0.00 min

Lab File: BF081037.D

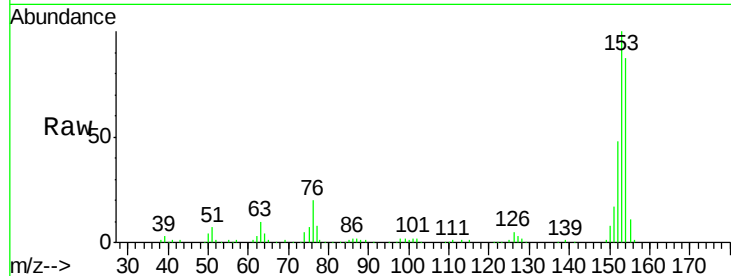
Acq: 18 Aug 2015 8:59

Instrument :

BNA_F

ClientSampleId :

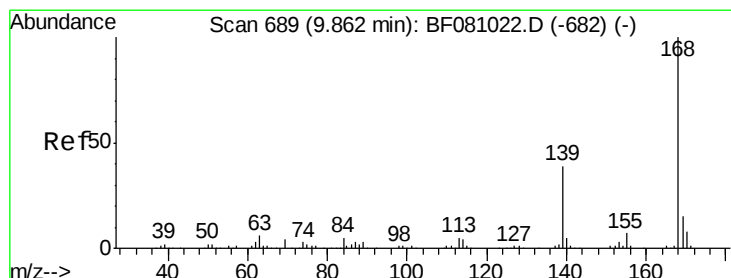
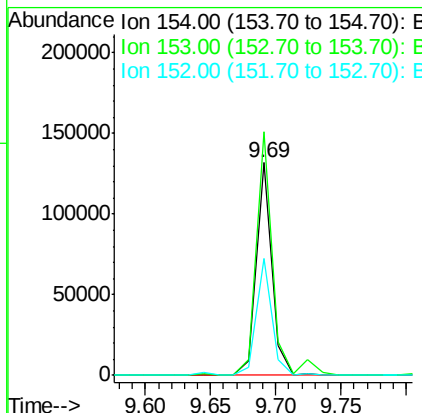
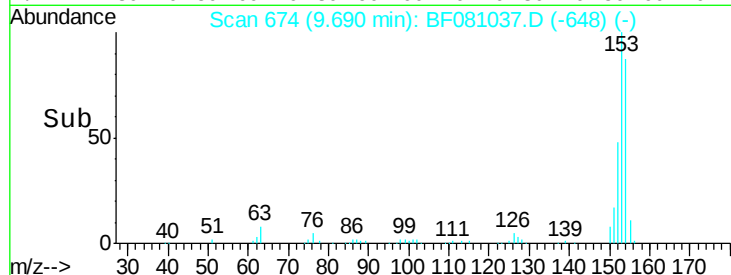
TEC-COMP16



Tgt Ion:	154	Resp:	110516
Ion Ratio	Lower	Upper	
154	100		
153	114.7	91.4	137.2
152	55.0	43.7	65.5

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#54

Dibenzofuran

Concen: 12.19 ng

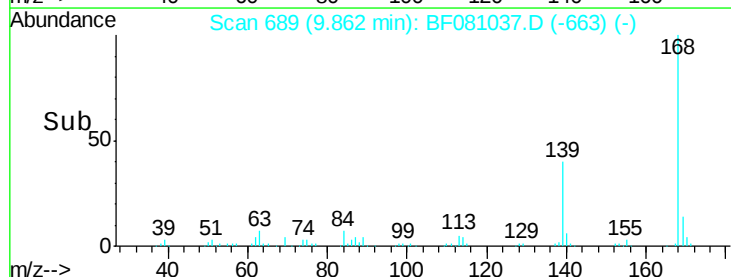
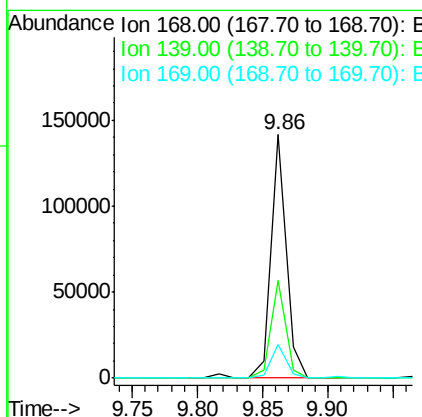
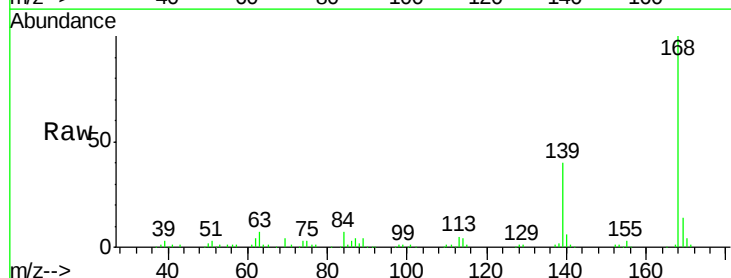
RT: 9.86 min Scan# 689

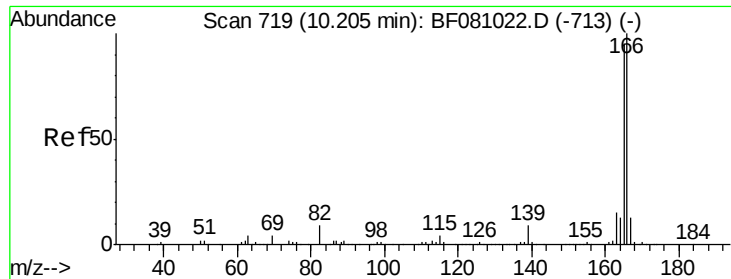
Delta R.T. 0.00 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Tgt Ion:	168	Resp:	118636
Ion Ratio	Lower	Upper	
168	100		
139	40.2	29.3	43.9
169	13.6	10.3	15.5





#57

Fluorene

Concen: 19.20 ng

RT: 10.20 min Scan# 719

Delta R.T. 0.00 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Instrument :

BNA_F

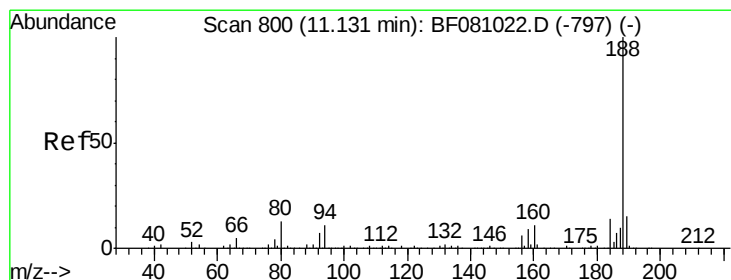
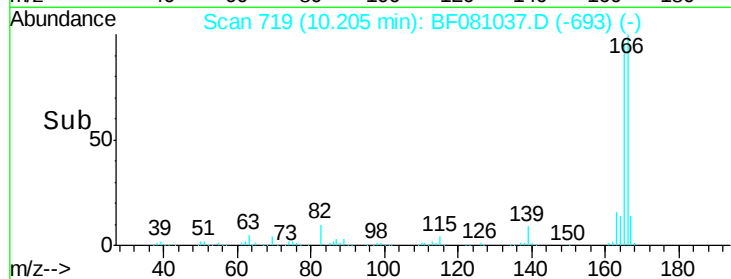
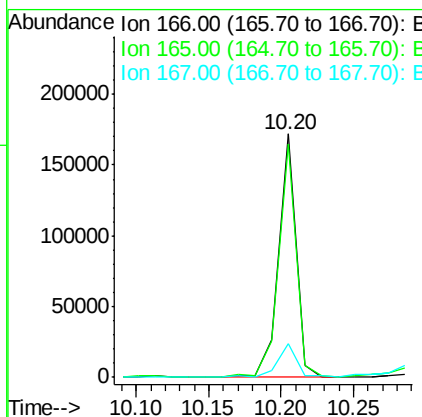
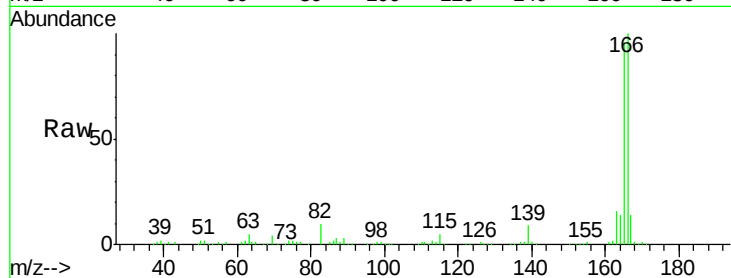
ClientSampleId :

TEC-COMP16

Tgt Ion:	166	Resp:	143782
Ion Ratio		Lower	Upper
166	100		
165	96.1	75.8	113.8
167	14.0	11.3	16.9

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#63

Phenanthrene-d10

Concen: 20.00 ng

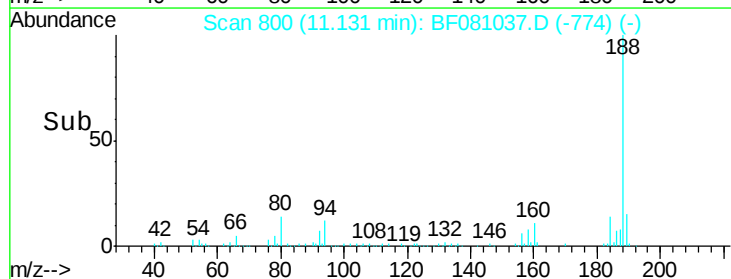
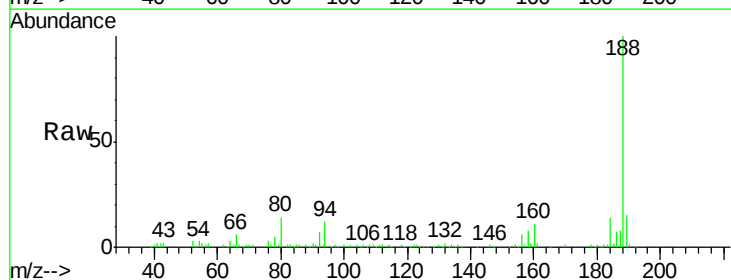
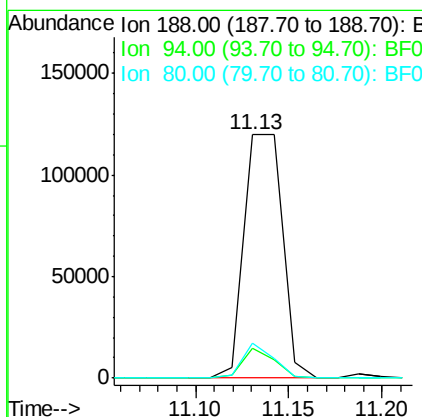
RT: 11.13 min Scan# 800

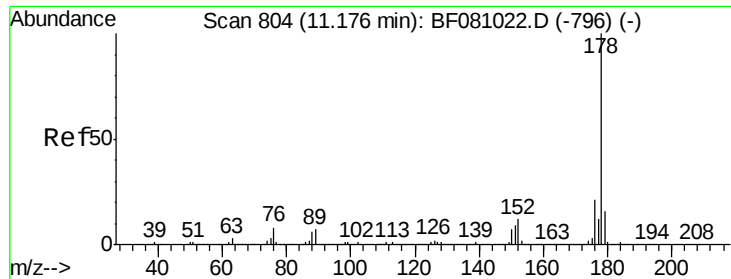
Delta R.T. 0.00 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

Tgt Ion:	188	Resp:	173305
Ion Ratio		Lower	Upper
188	100		
94	12.1	8.2	12.2
80	14.3	9.5	14.3#





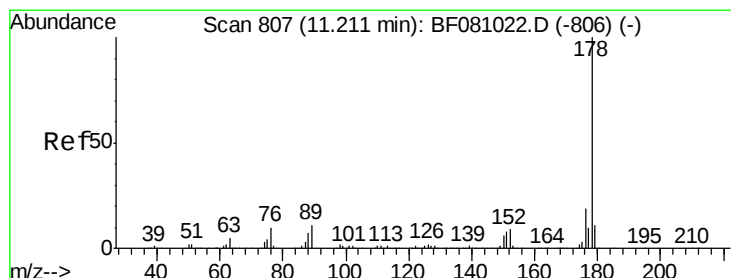
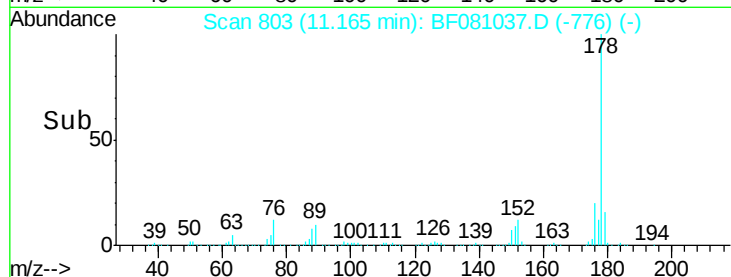
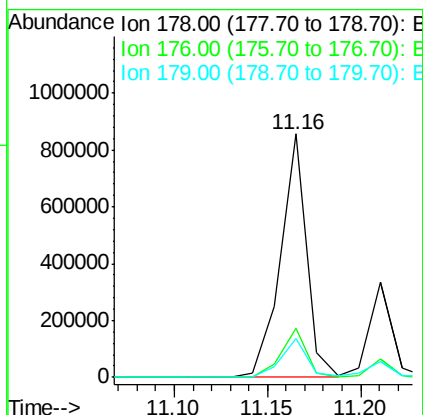
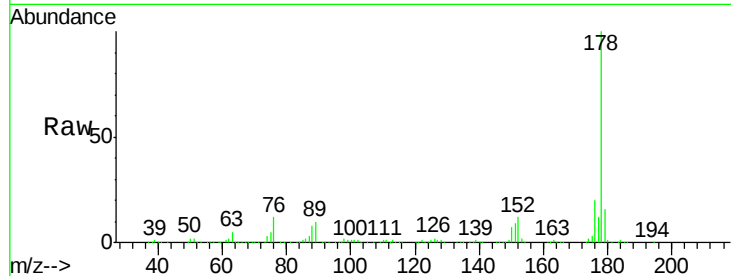
#70
Phenanthrene
Concen: 81.01 ng
RT: 11.16 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.7	23.5
179	15.9	12.2	18.2

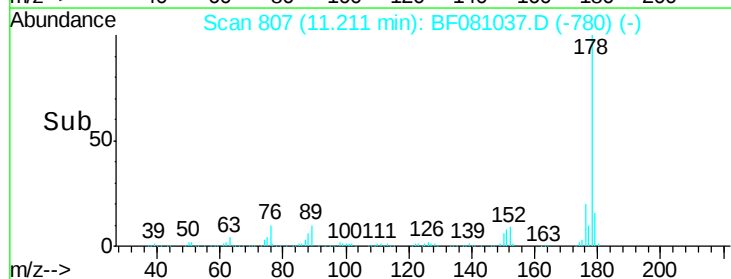
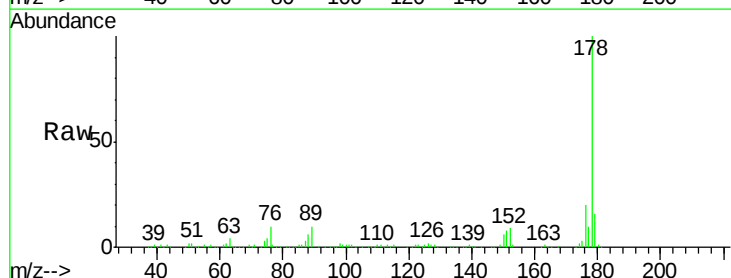
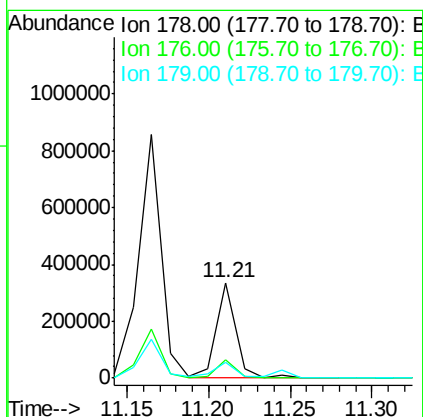
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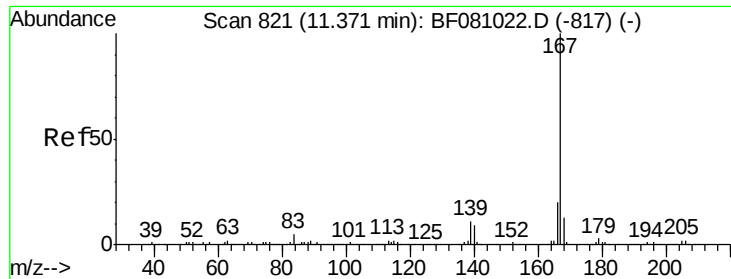
MMDadoda
8/18/2015 5:13:42 PM



#71
Anthracene
Concen: 28.25 ng
RT: 11.21 min Scan# 807
Delta R.T. 0.01 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	16.0	12.7	19.1





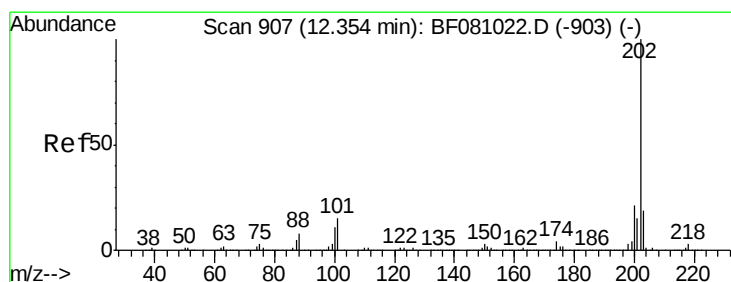
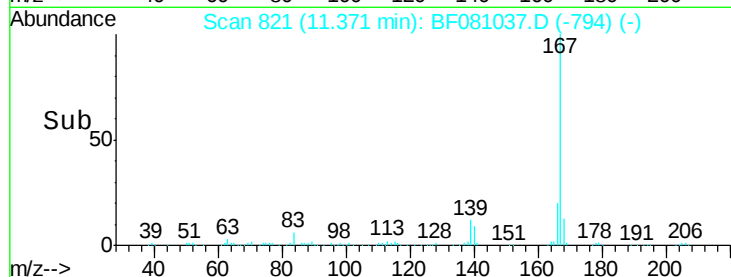
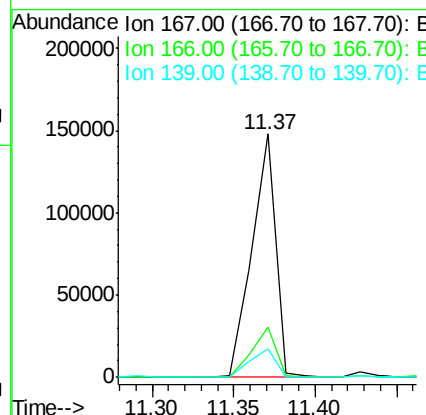
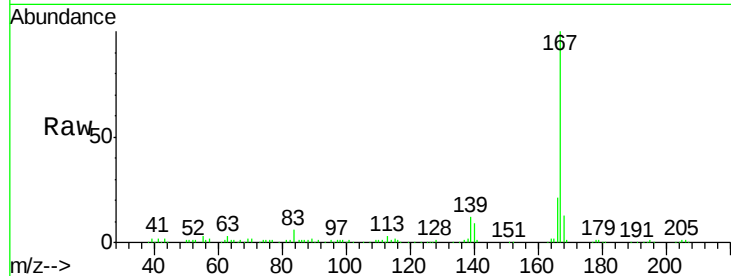
#72
 Carbazole
 Concen: 15.53 ng
 RT: 11.37 min Scan# 821
 Delta R.T. 0.01 min
 Lab File: BF081037.D
 Acq: 18 Aug 2015 8:59

Instrument :
 BNA_F
 ClientSampleId :
 TEC-COMP16

Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.4	26.0
139	11.9	10.6	16.0

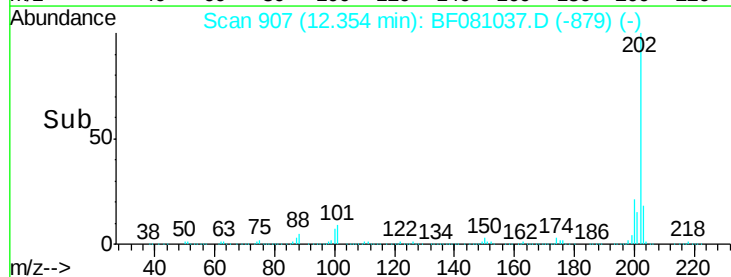
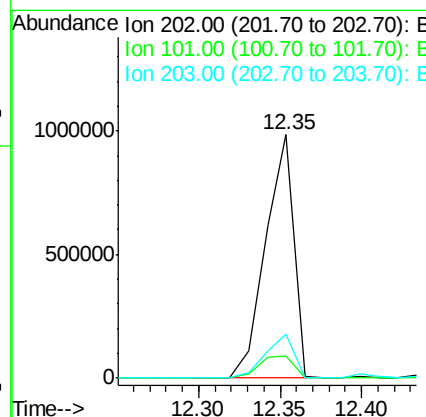
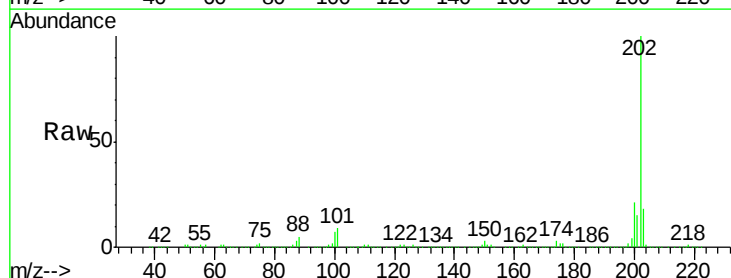
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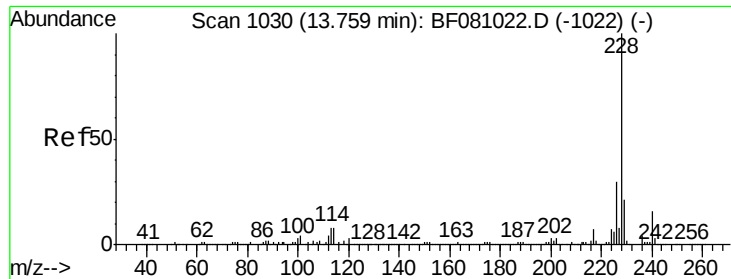
MMDadoda
 8/18/2015 5:13:42 PM



#74
 Fluoranthene
 Concen: 106.67 ng
 RT: 12.35 min Scan# 907
 Delta R.T. 0.02 min
 Lab File: BF081037.D
 Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	24.8
203	18.2	0.0	36.9





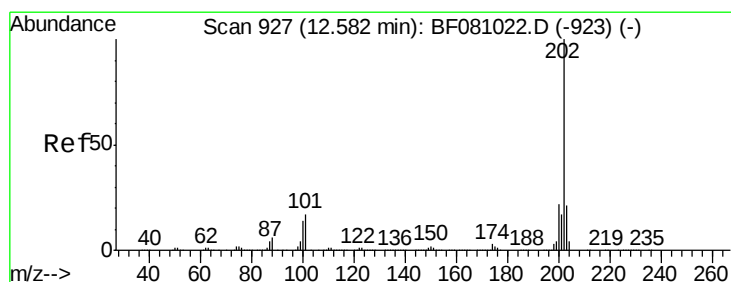
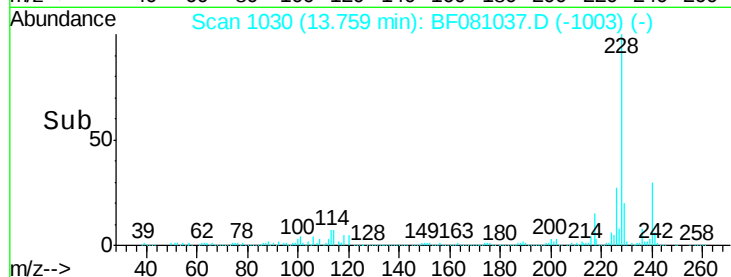
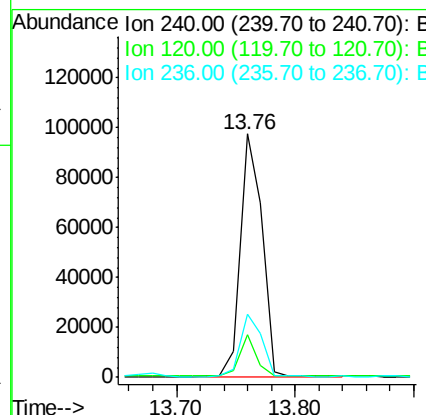
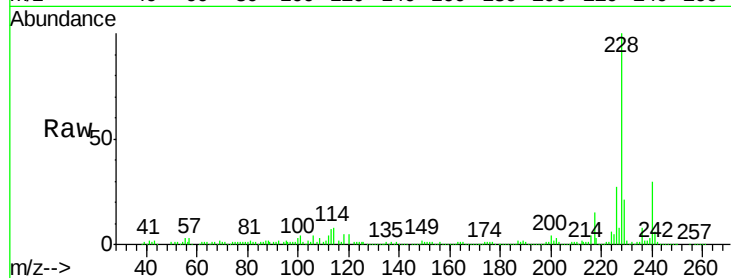
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.76 min Scan# 1030
Delta R.T. 0.01 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	126285		
120	17.5	5.6	8.4#	
236	25.9	20.6	30.8	

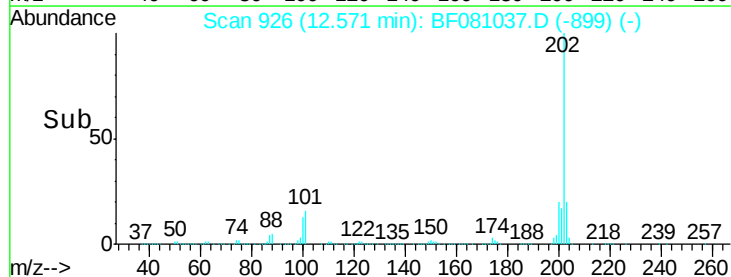
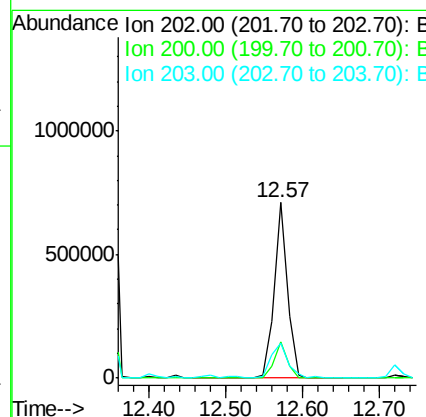
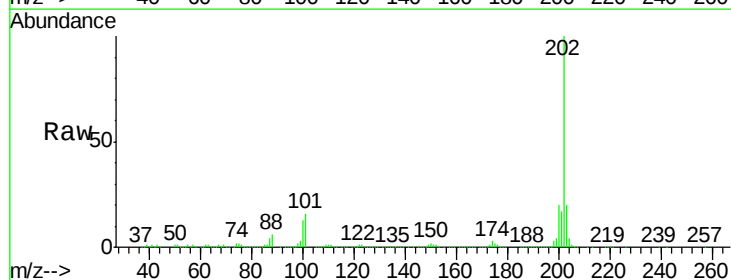
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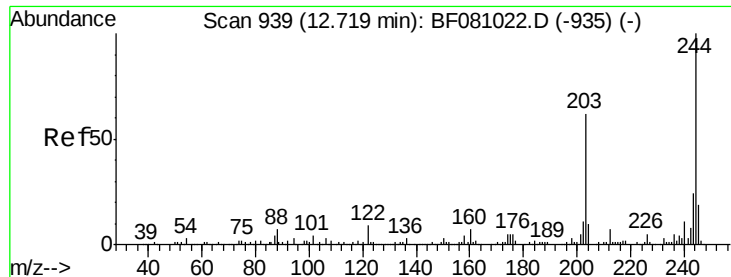
MMDadoda
8/18/2015 5:13:42 PM



#77
Pyrene
Concen: 81.60 ng
RT: 12.57 min Scan# 926
Delta R.T. 0.01 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	837743		
200	20.3	16.6	24.8	
203	20.1	14.1	21.1	





#78

Terphenyl-d14

Concen: 79.81 ng

RT: 12.72 min Scan# 939

Delta R.T. 0.01 min

Lab File: BF081037.D

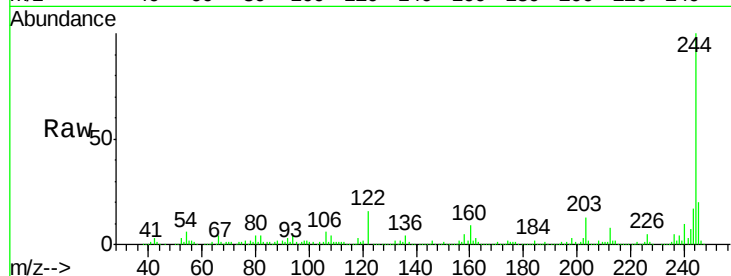
Acq: 18 Aug 2015 8:59

Instrument :

BNA_F

ClientSampleId :

TEC-COMP16



Tgt Ion:244 Resp: 470159

Ion Ratio Lower Upper

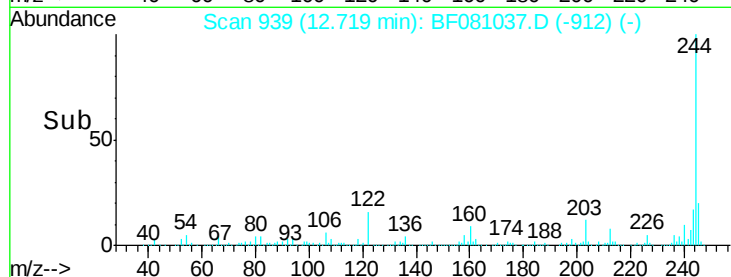
244 100

212 8.2 5.8 8.8

122 16.5 8.2 12.4#

Manual Integrations
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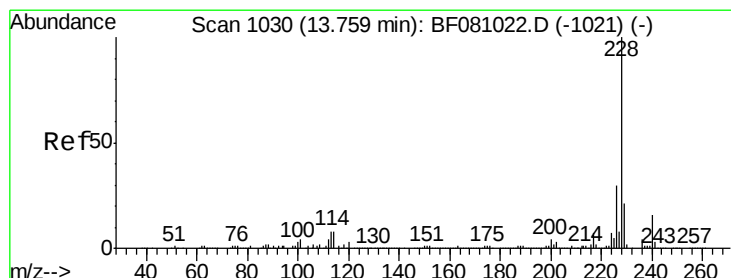
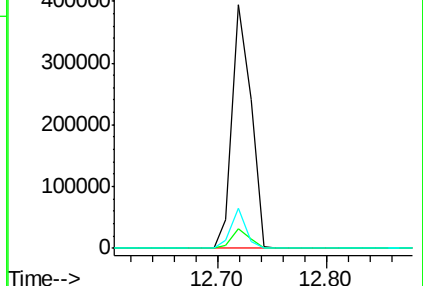
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 61.11 ng

RT: 13.76 min Scan# 1030

Delta R.T. 0.02 min

Lab File: BF081037.D

Acq: 18 Aug 2015 8:59

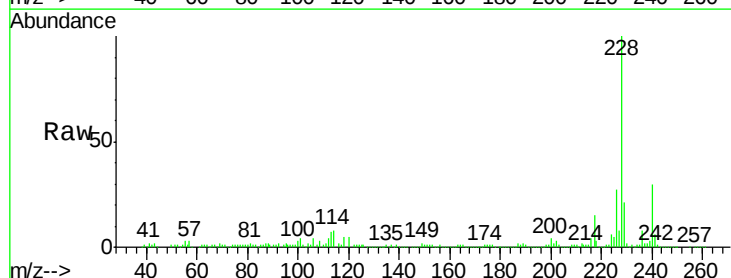
Tgt Ion:228 Resp: 517511

Ion Ratio Lower Upper

228 100

226 27.1 22.3 33.5

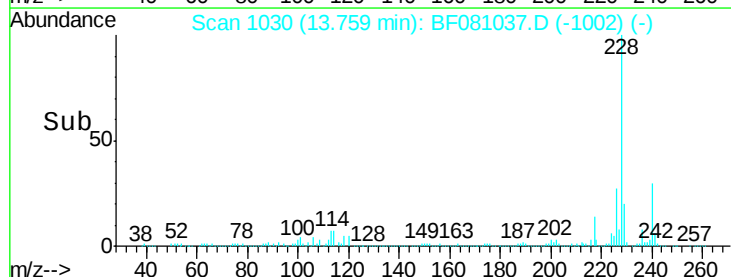
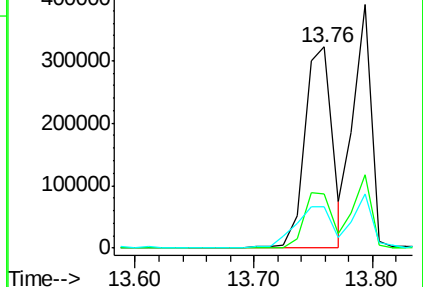
229 20.7 15.9 23.9

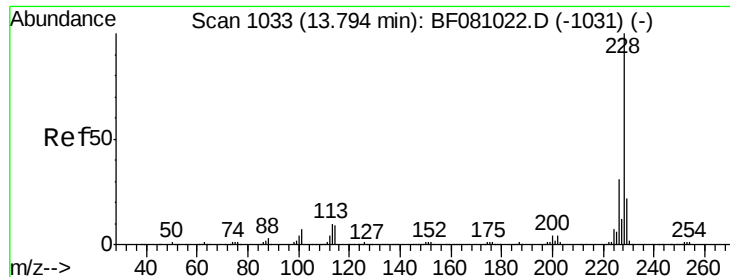


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





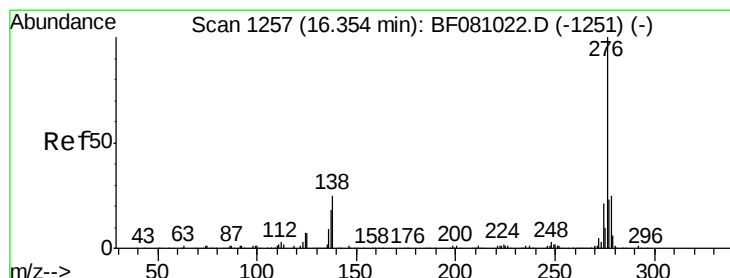
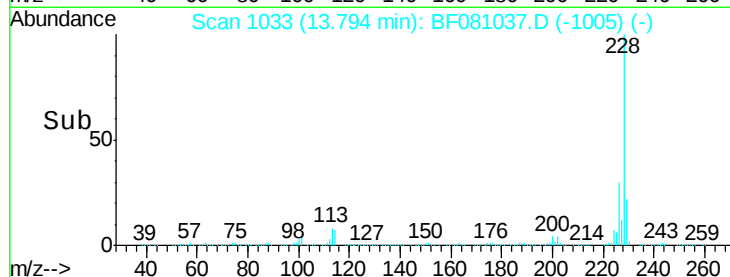
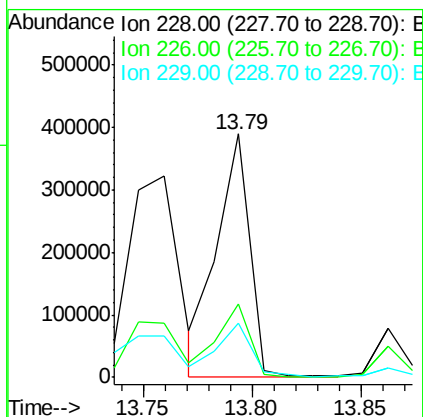
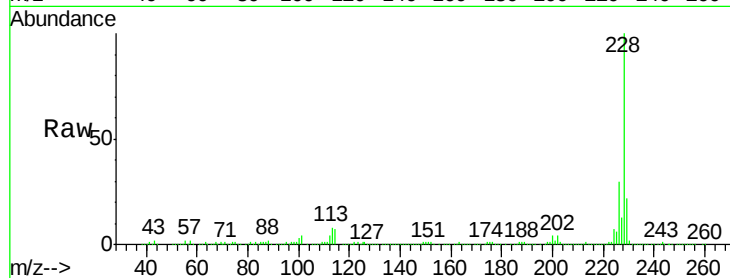
#82
Chrysene
Concen: 52.62 ng
RT: 13.79 min Scan# 1033
Delta R.T. 0.02 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion:	228	Resp:	401625
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.4	36.6
229	22.3	16.0	24.0

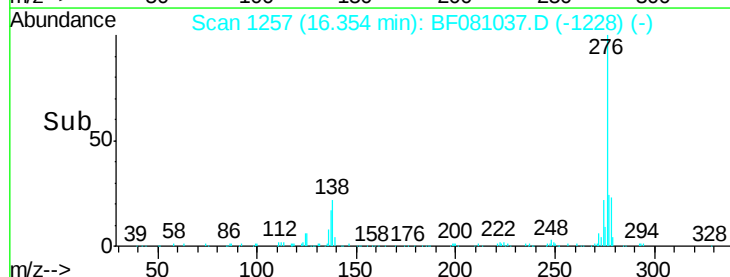
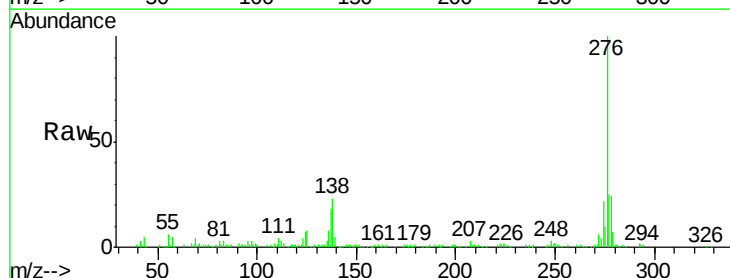
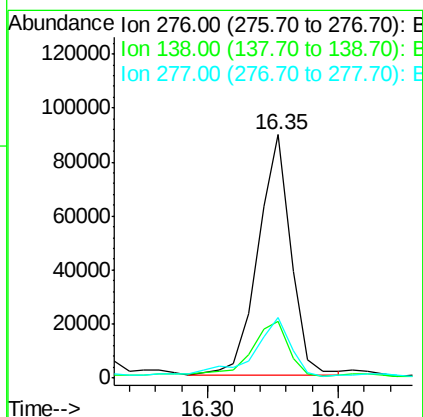
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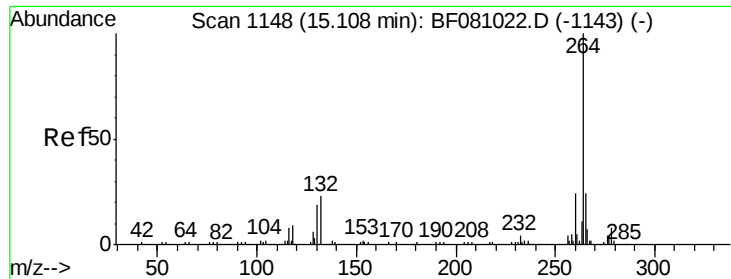
MMDadoda
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#85
Indeno(1,2,3-cd)pyrene
Concen: 28.97 ng
RT: 16.35 min Scan# 1257
Delta R.T. 0.03 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion:	276	Resp:	155236
Ion Ratio	Lower	Upper	
276	100		
138	27.5	18.6	28.0
277	27.3	19.8	29.8





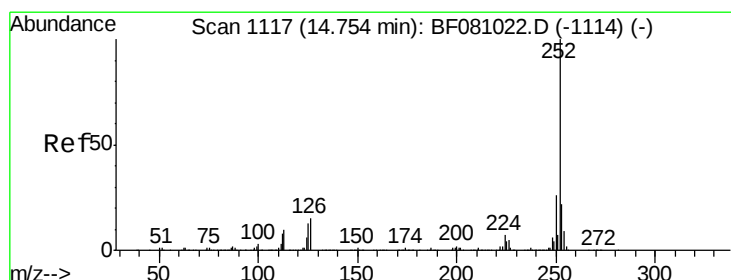
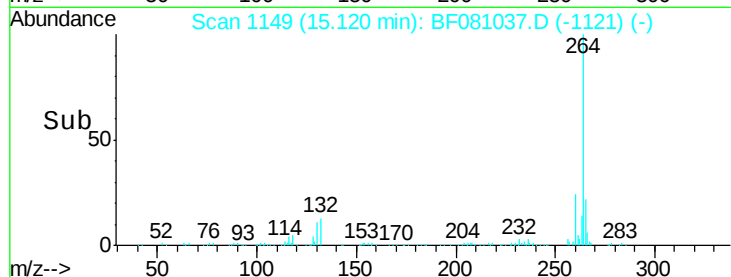
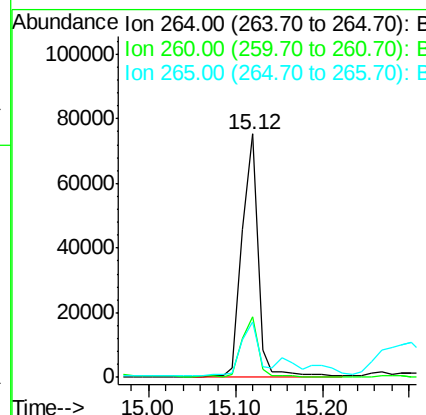
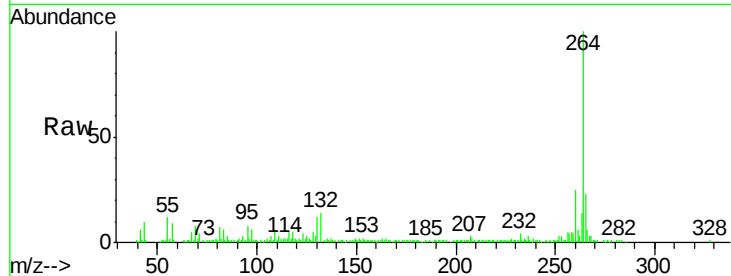
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1149
Delta R.T. 0.02 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.8	19.6	29.4
265	22.7	17.5	26.3

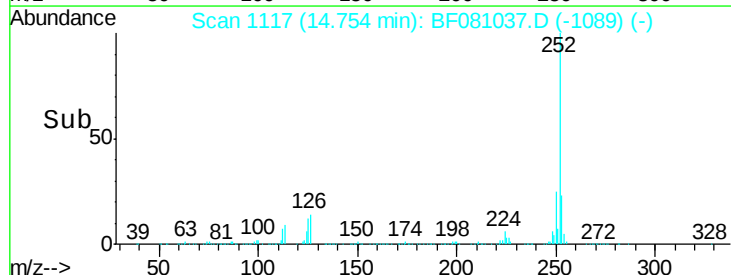
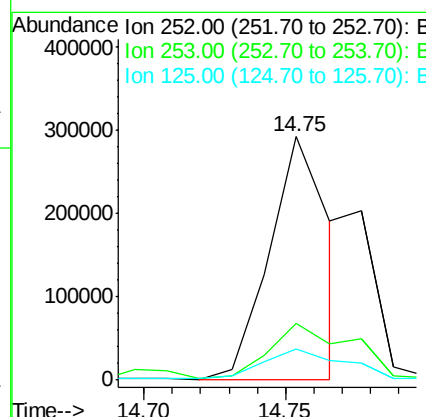
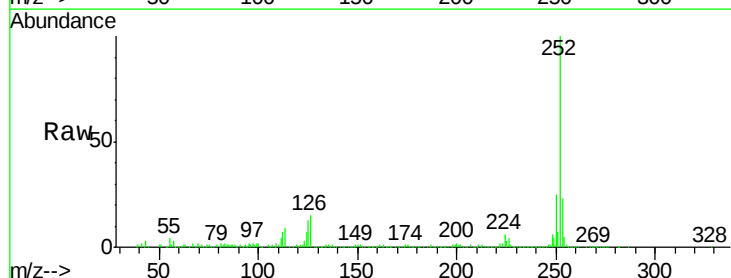
Manual Integrations
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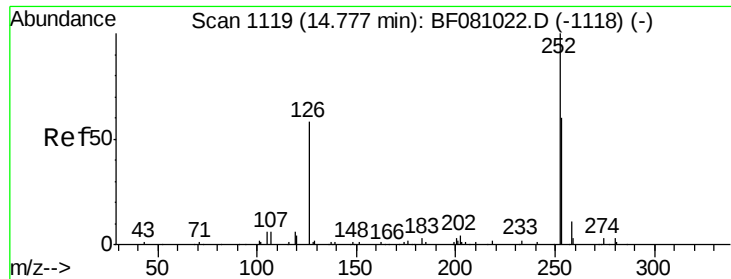
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#87
Benzo(b)fluoranthene
Concen: 62.07 ng m
RT: 14.75 min Scan# 1117
Delta R.T. 0.02 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.2	17.1	25.7
125	12.9	8.0	12.0#





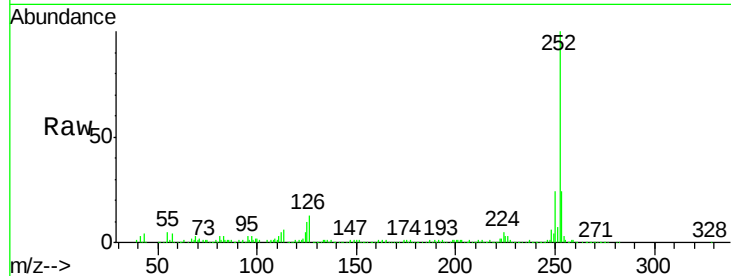
#88
Benzo(k)fluoranthene
Concen: 24.30 ng m
RT: 14.78 min Scan# 1119
Delta R.T. 0.01 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

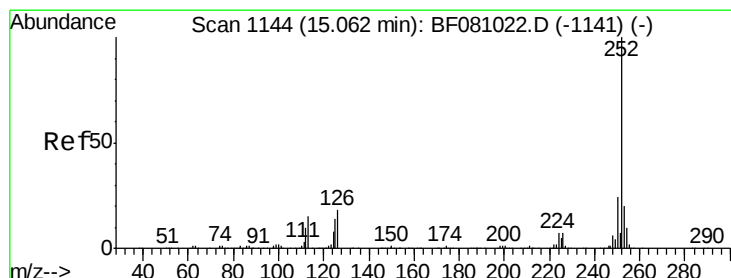
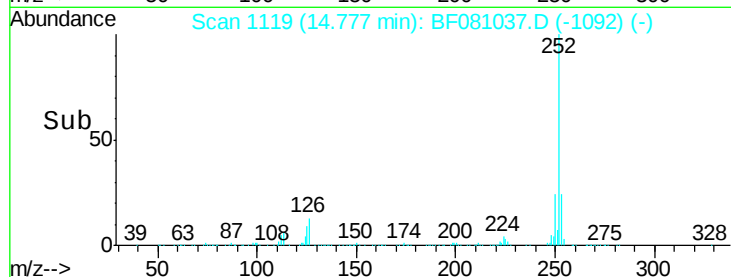
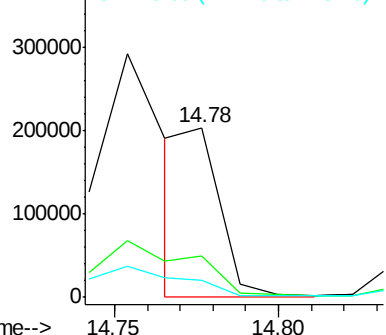
Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.4	17.6	26.4
125	9.7	10.3	15.5#

Manual Integrations
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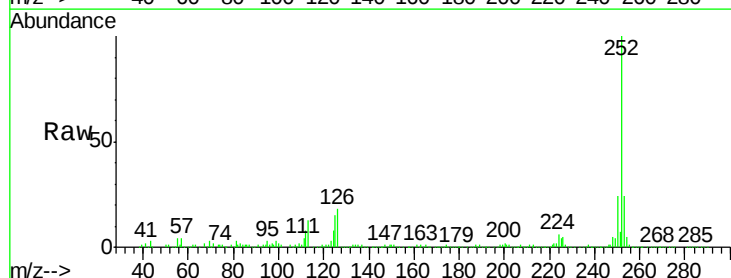


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

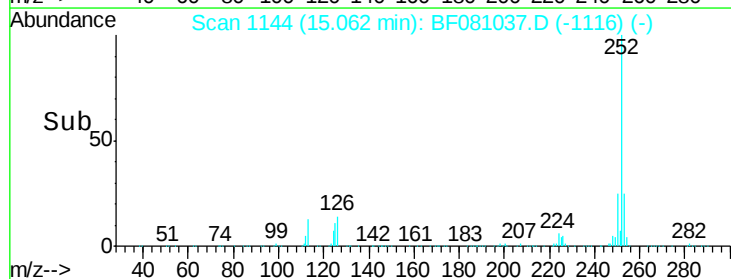
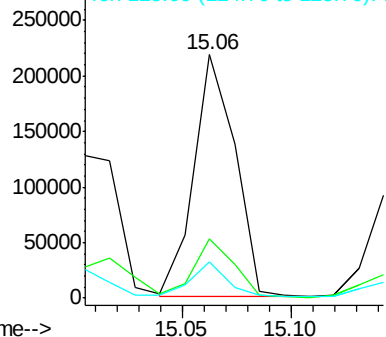


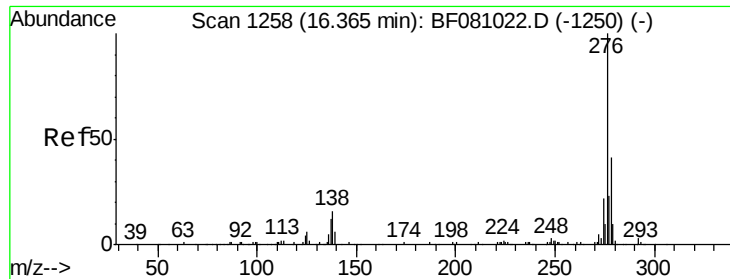
#89
Benzo(a)pyrene
Concen: 48.00 ng
RT: 15.06 min Scan# 1144
Delta R.T. 0.02 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	24.5	16.6	25.0
125	14.7	7.8	11.8#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





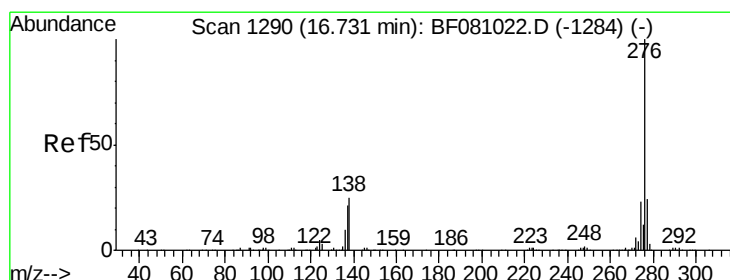
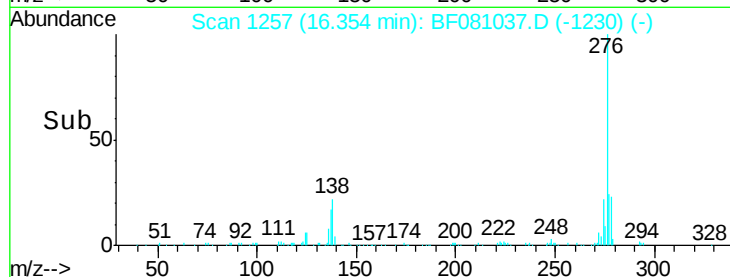
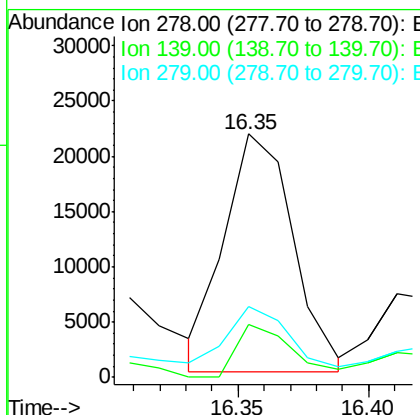
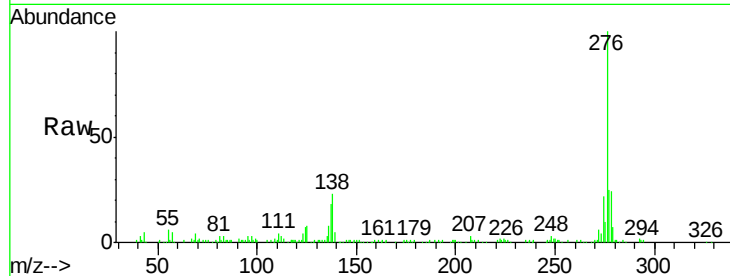
#90
Dibenzo(a,h)anthracene
Concen: 8.49 ng
RT: 16.35 min Scan# 1257
Delta R.T. 0.01 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Instrument :
BNA_F
ClientSampleId :
TEC-COMP16

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.8	10.8	16.2#
279	29.3	19.0	28.6#

Manual Integrations
APPROVED

MMDadoda
8/18/2015 5:13:42 PM



#91
Benzo(g,h,i)perylene
Concen: 29.87 ng
RT: 16.72 min Scan# 1289
Delta R.T. 0.03 min
Lab File: BF081037.D
Acq: 18 Aug 2015 8:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.2	27.2
138	28.2	13.7	20.5#

