

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\
 Data File : BF079465.D
 Acq On : 23 May 2015 9:21
 Operator : TP/IZ
 Sample : G2289-12 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Manual Integrations
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Quant Time: May 25 07:34:50 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 25 07:32:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.05	152	70759	20.00	ng	0.00
21) Naphthalene-d8	8.63	136	293586	20.00	ng	0.00
38) Acenaphthene-d10	10.80	164	139082	20.00	ng	0.00
63) Phenanthrene-d10	12.64	188	255332	20.00	ng	0.01
75) Chrysene-d12	15.92	240	257988	20.00	ng	0.01
86) Perylene-d12	17.70	264	254120	20.00	ng	0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	100346m	24.41	ng	0.02
7) Phenol-d6	6.65	99	139578m	25.69	ng	0.02
23) Nitrobenzene-d5	7.75	82	34855	6.82	ng	0.00
41) 2,4,6-Tribromophenol	11.78	330	22352	14.86	ng	0.00
44) 2-Fluorobiphenyl	9.98	172	143985	14.42	ng	0.00
78) Terphenyl-d14	14.63	244	152674	14.17	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.65	128	100513	7.19	ng	98
37) 2-Methylnaphthalene	9.52	142	30029	3.10	ng	97
51) Acenaphthene	10.83	154	53718	6.36	ng	98
54) Dibenzofuran	11.05	168	59962	4.92	ng	99
57) Fluorene	11.47	166	73820	7.37	ng	99
70) Phenanthrene	12.66	178	598011	41.86	ng	99
71) Anthracene	12.73	178	202889	14.48	ng	98
72) Carbazole	12.94	167	46566	3.49	ng	98
74) Fluoranthene	14.14	202	690921	46.42	ng	99
77) Pyrene	14.41	202	674928	45.40	ng	# 95
80) Benzo(a)anthracene	15.91	228	315540	22.33	ng	98
82) Chrysene	15.95	228	249185	18.34	ng	98
85) Indeno(1,2,3-cd)pyrene	19.06	276	148709m	8.59	ng	
87) Benzo(b)fluoranthene	17.25	252	345539m	24.84	ng	
88) Benzo(k)fluoranthene	17.28	252	83903m	6.23	ng	
89) Benzo(a)pyrene	17.63	252	248482	19.40	ng	# 93
90) Dibenzo(a,h)anthracene	19.09	278	40773	3.00	ng	# 82
91) Benzo(g,h,i)perylene	19.46	276	153095	11.22	ng	98

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

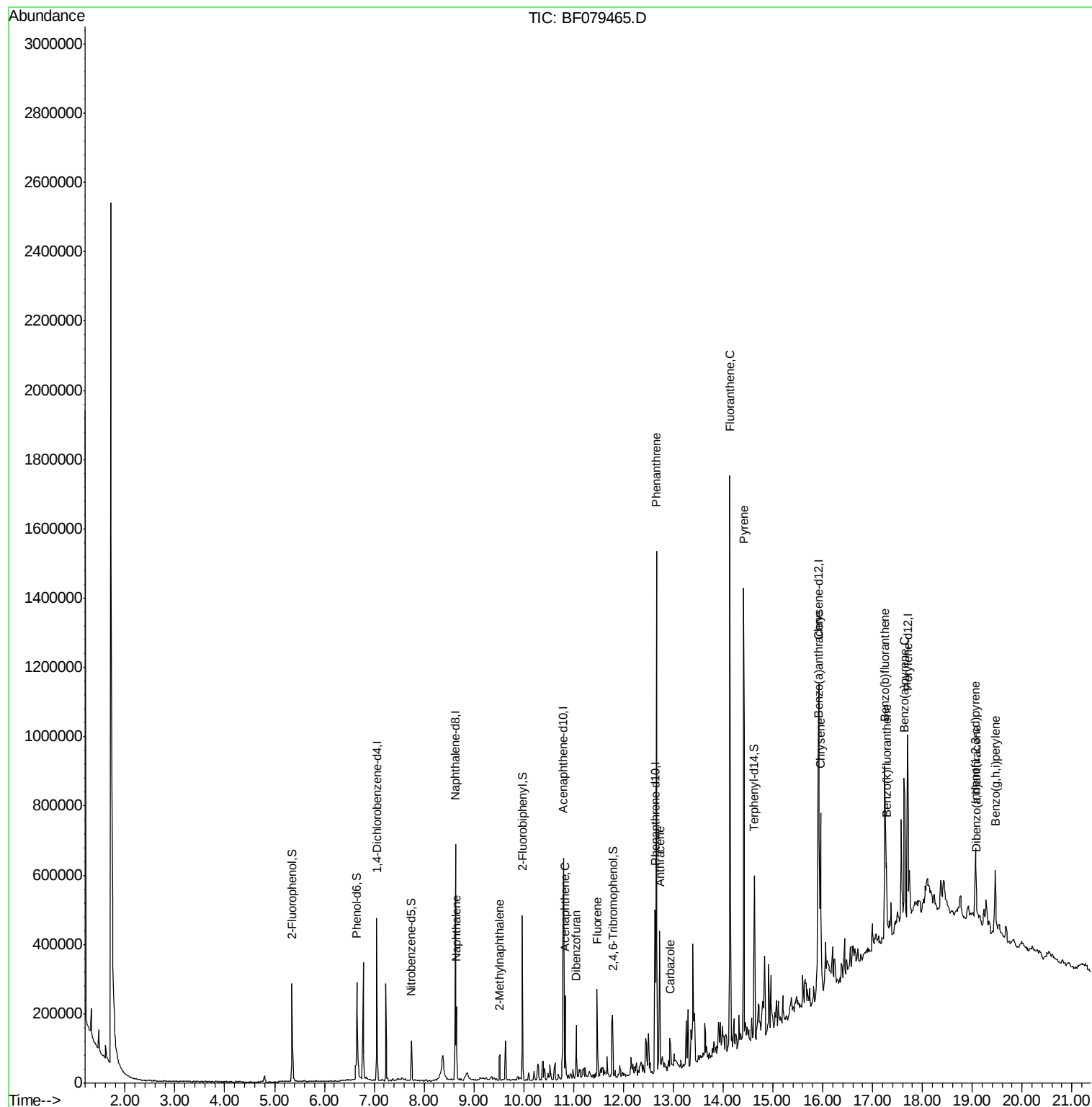
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052215\
Data File : BF079465.D
Acq On : 23 May 2015 9:21
Operator : TP/IZ
Sample : G2289-12 5X
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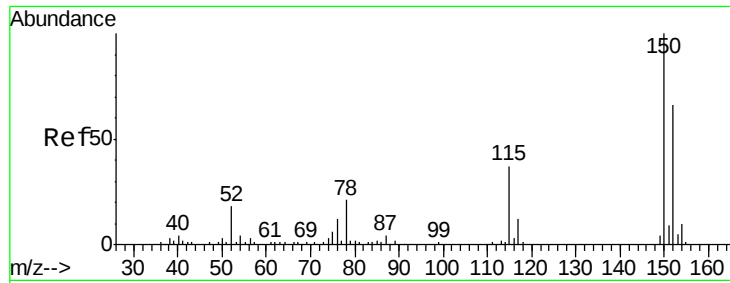
Instrument :
BNA_F
ClientSampled :
SB-31D

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Quant Time: May 25 07:34:50 2015
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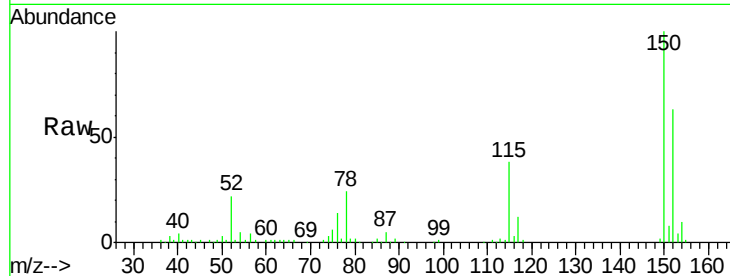
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.05 min Scan# 513
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

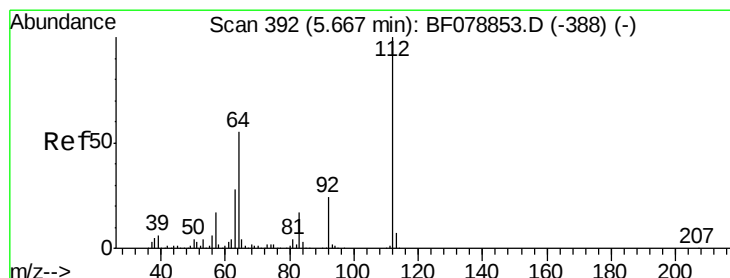
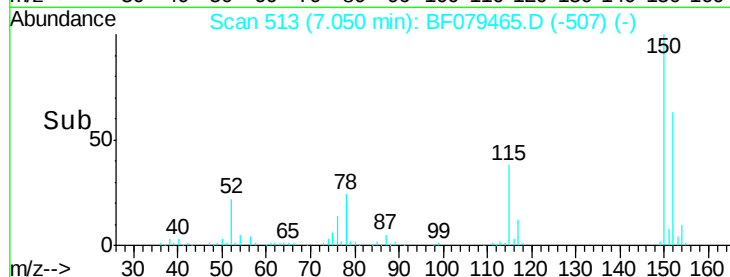
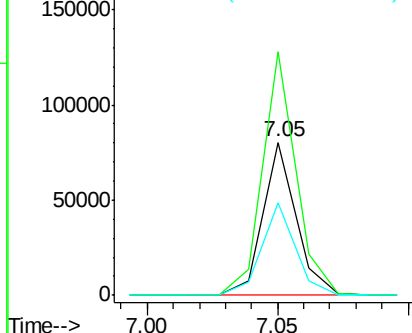
Tot Ion:	152	Resp:	70759
Ion Ratio	Lower	Upper	
152	100		
150	158.8	123.8	185.8
115	60.5	49.4	74.0

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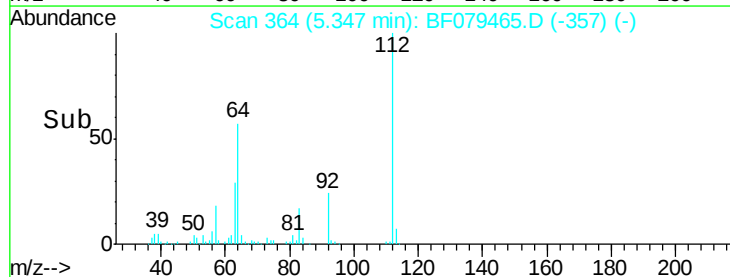
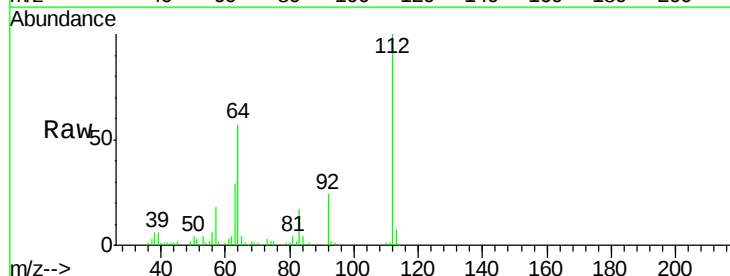
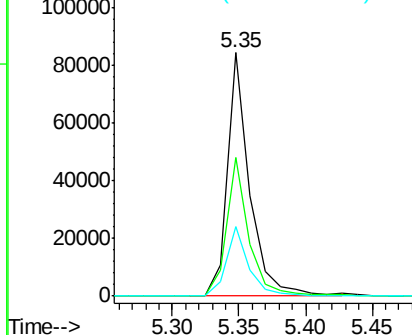
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

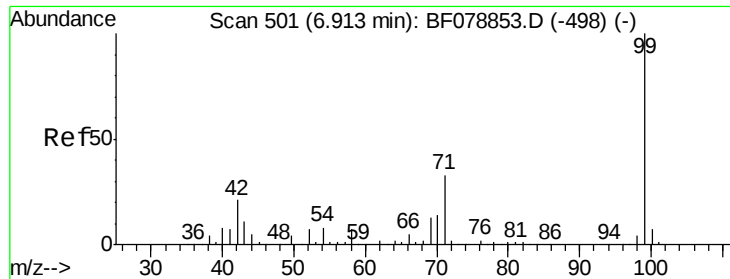


#5
 2-Fluorophenol
 Concen: 24.41 ng m
 RT: 5.35 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion:	112	Resp:	100346
Ion Ratio	Lower	Upper	
112	100		
64	57.1	44.2	66.2
63	28.6	22.7	34.1

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: 25.69 ng/mL

RT: 6.65 min Scan# 478

Delta R.T. 0.02 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

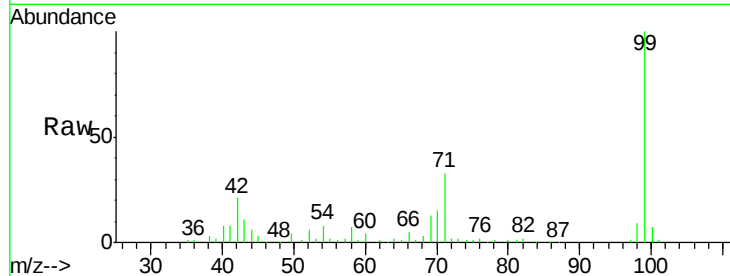
ClientSampleId :

SB-31D

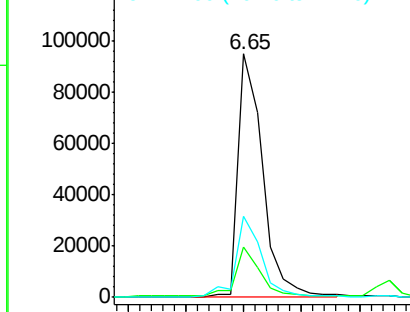
Tot Ion:	99	Resp:	139578
Ion Ratio	Lower	Upper	
99	100		
42	20.6	17.1	25.7
71	33.3	26.3	39.5

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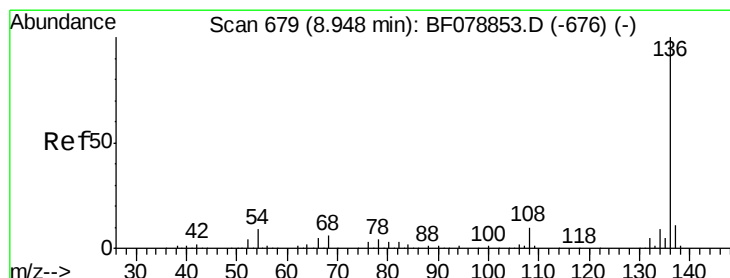
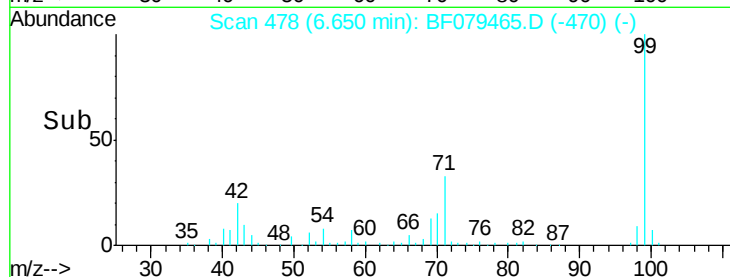
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



Time--> 6.55 6.60 6.65 6.70 6.75



#21

Naphthalene-d8

Concen: 20.00 ng/mL

RT: 8.63 min Scan# 651

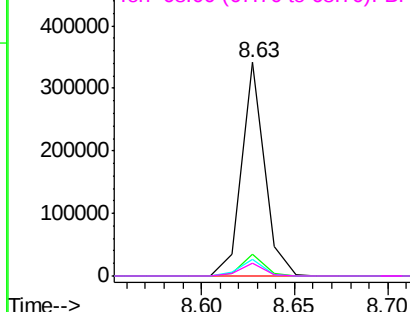
Delta R.T. -0.00 min

Lab File: BF079465.D

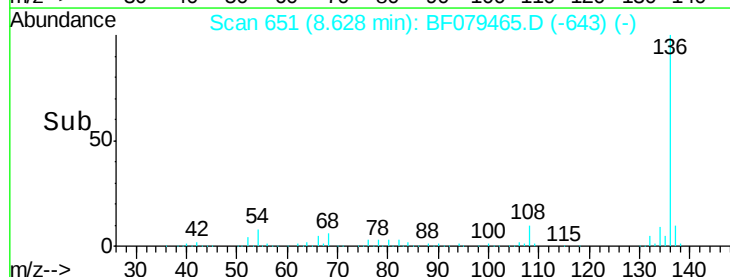
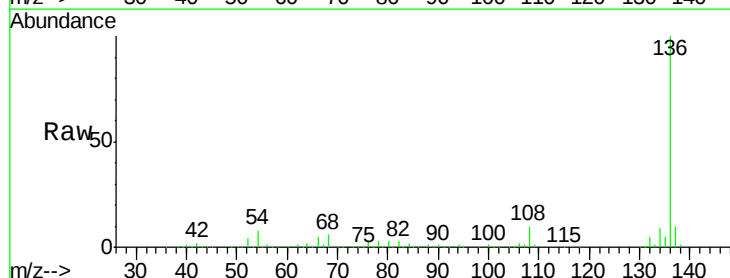
Acq: 23 May 2015 9:21

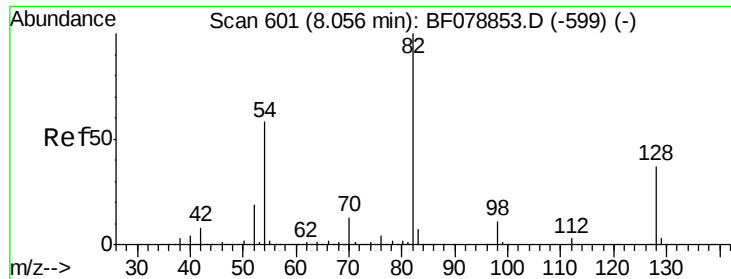
Tgt Ion:	136	Resp:	293586
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.8	13.2
54	7.5	6.9	10.3
68	5.7	4.9	7.3

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0



Time--> 8.60 8.65 8.70





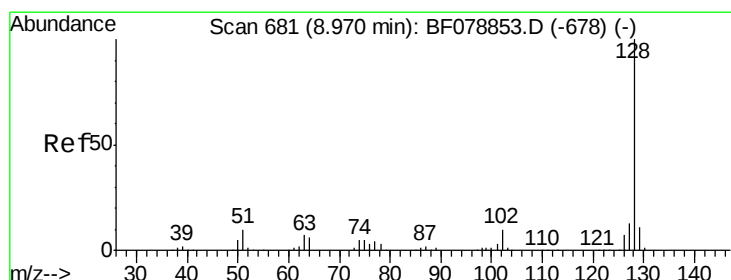
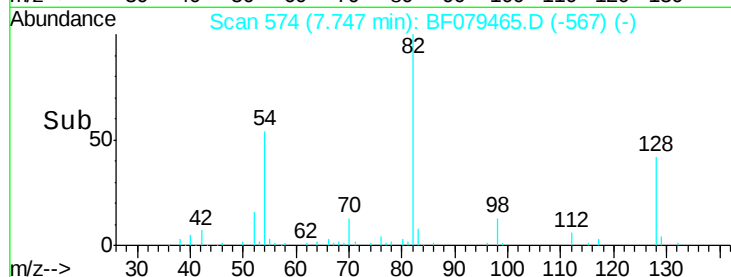
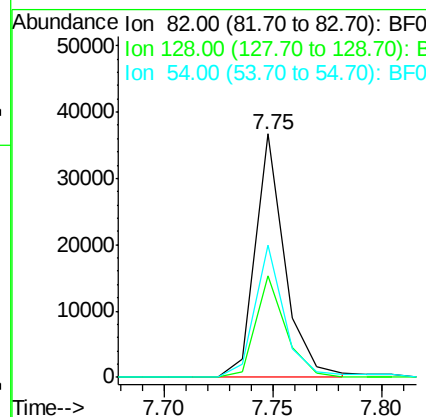
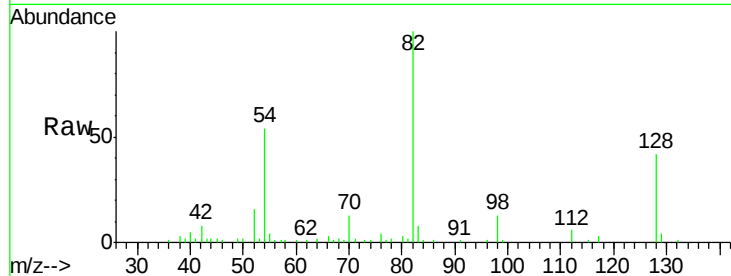
#23
Nitrobenzene-d5
Concen: 6.82 ng
RT: 7.75 min Scan# 574
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampleID :
SB-31D

Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	41.7	29.7	44.5
54	54.2	46.2	69.4

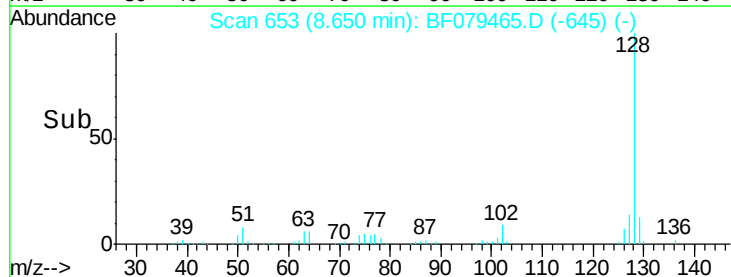
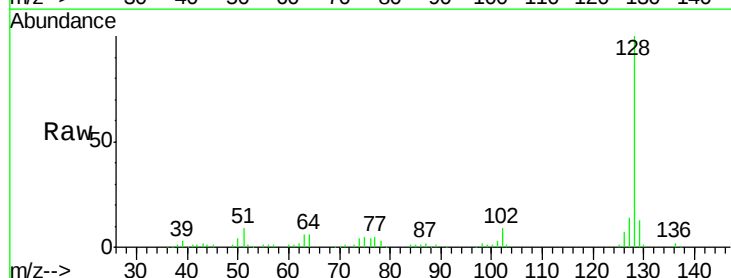
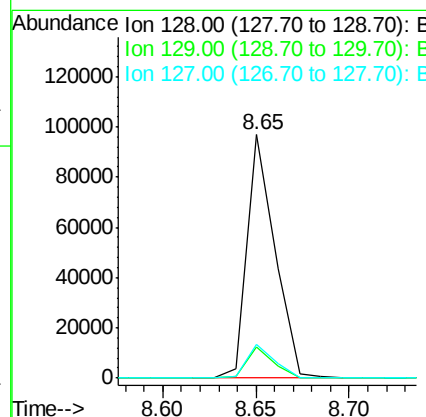
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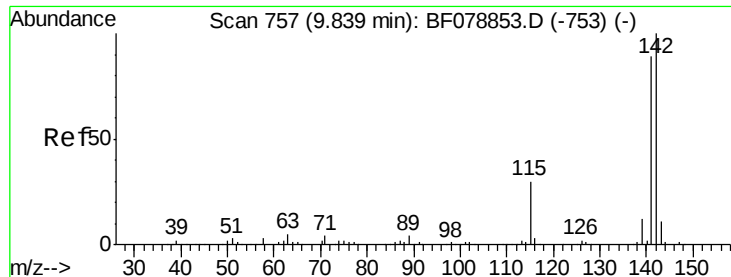
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#31
Naphthalene
Concen: 7.19 ng
RT: 8.65 min Scan# 653
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	12.6	9.2	13.8
127	13.7	10.3	15.5





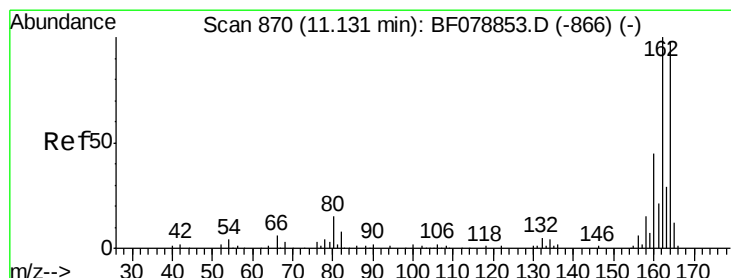
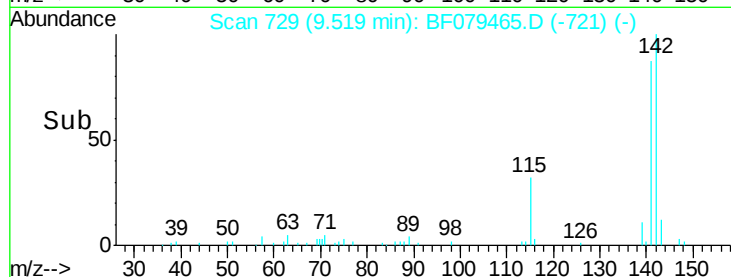
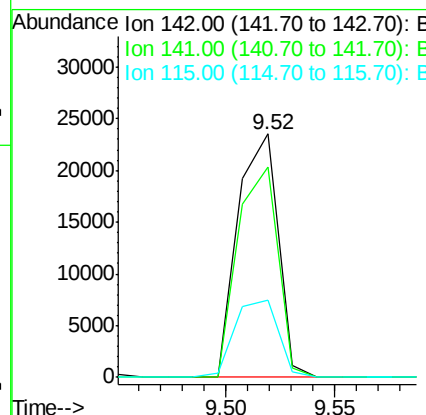
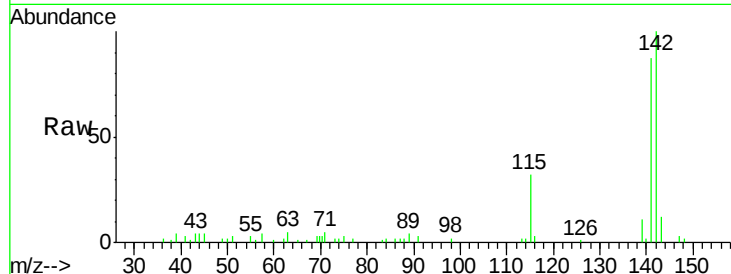
#37
 2-Methylnaphthalene
 Concen: 3.10 ng
 RT: 9.52 min Scan# 729
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	71.6	107.4
115	31.7	24.2	36.4

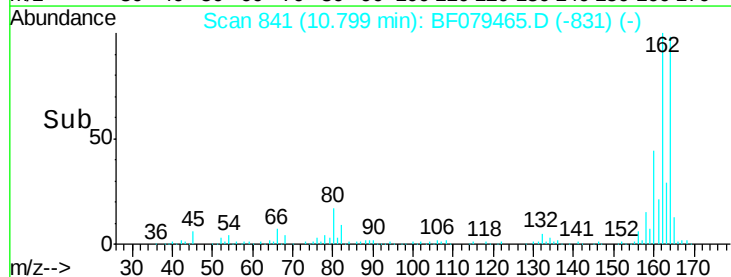
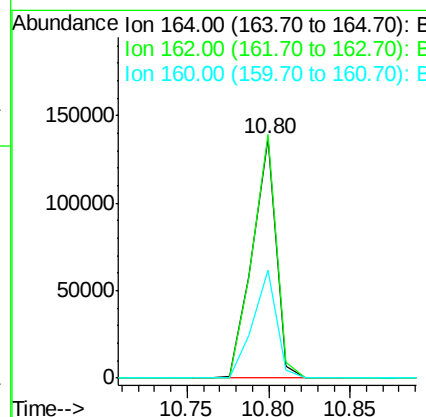
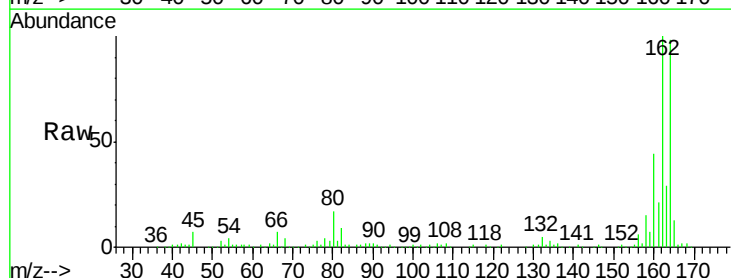
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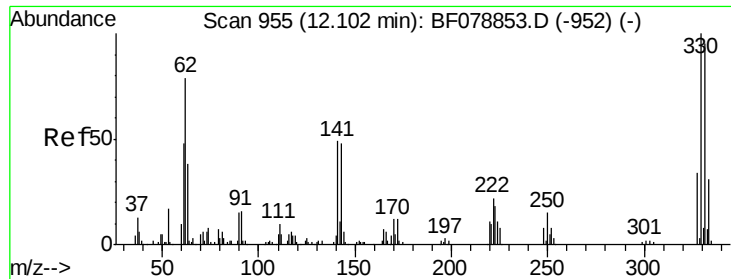
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.80 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.4	122.0
160	45.2	36.6	54.8





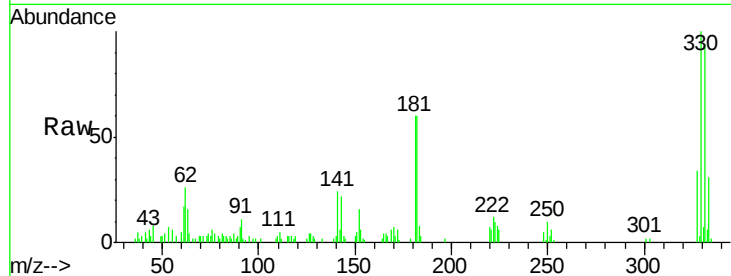
#41
 2,4,6-Tribromophenol
 Concen: 14.86 ng
 RT: 11.78 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

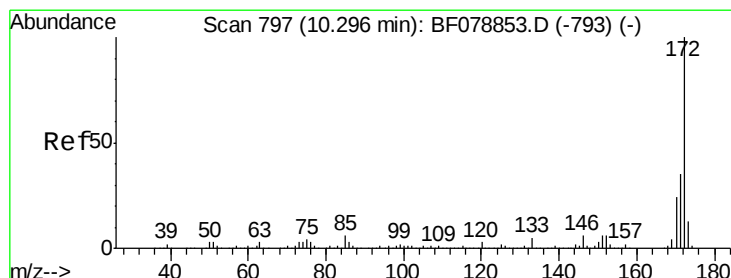
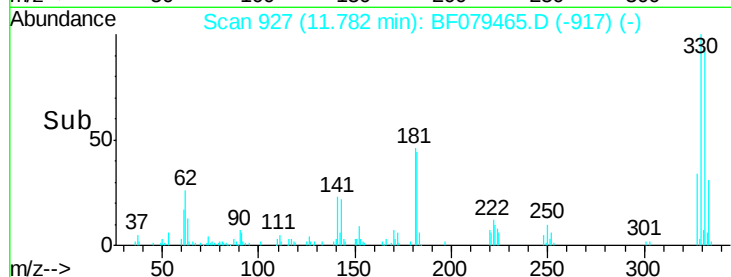
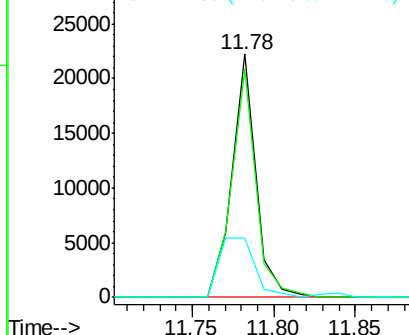
Tot Ion	Ratio	Resp	Lower	Upper
330	100	22352		
332	95.7	76.9	115.3	
141	36.6	27.8	41.8	

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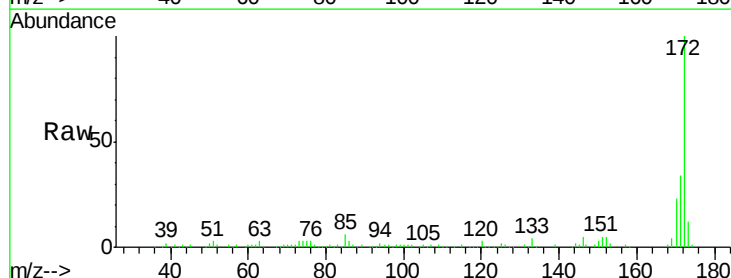


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

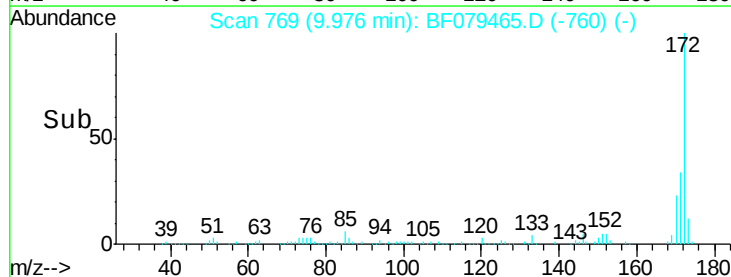
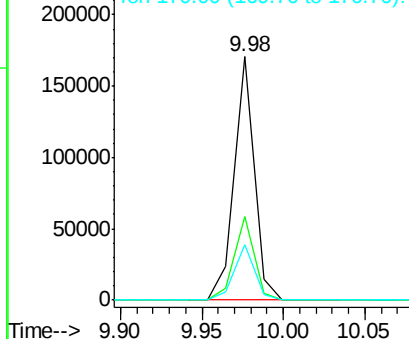


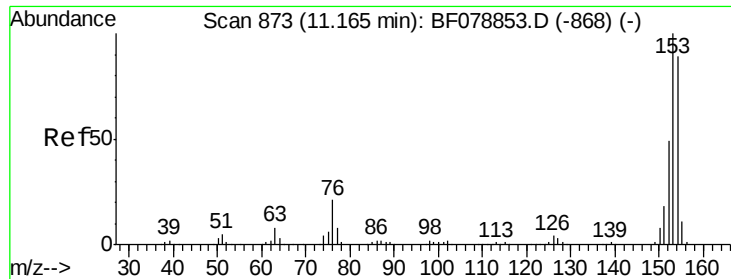
#44
 2-Fluorobiphenyl
 Concen: 14.42 ng
 RT: 9.98 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	143985		
171	34.1	28.3	42.5	
170	22.9	19.4	29.2	



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





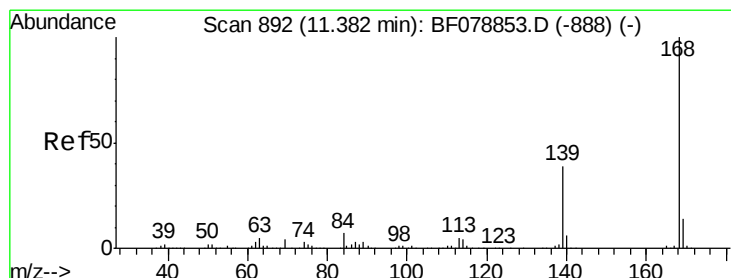
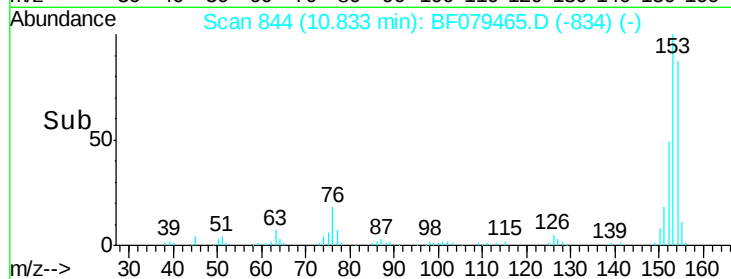
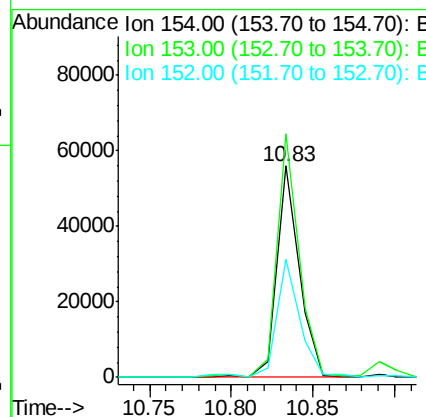
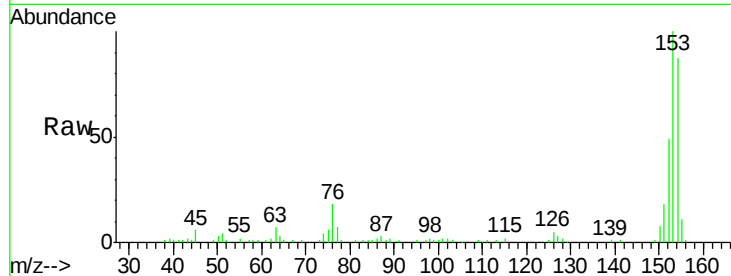
#51
Acenaphthene
Concen: 6.36 ng
RT: 10.83 min Scan# 844
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampleId :
SB-31D

Tot Ion	Ratio	Lower	Upper
154	100		
153	115.1	90.2	135.2
152	56.1	43.8	65.8

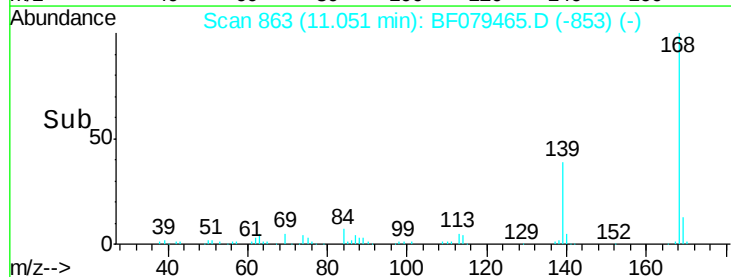
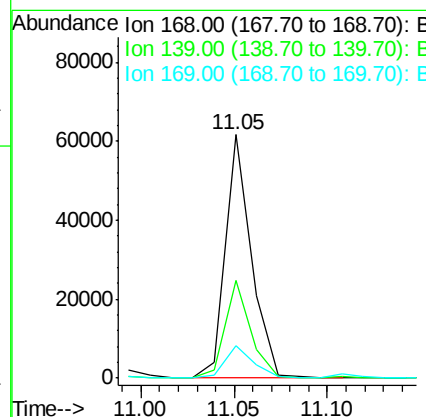
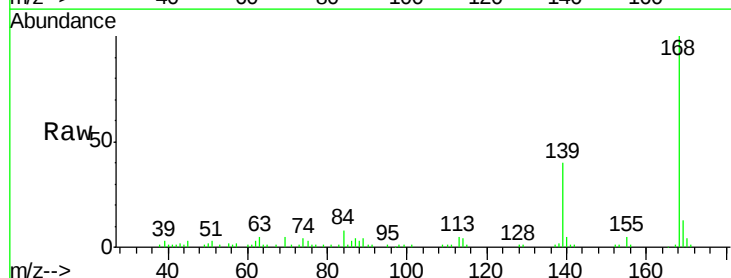
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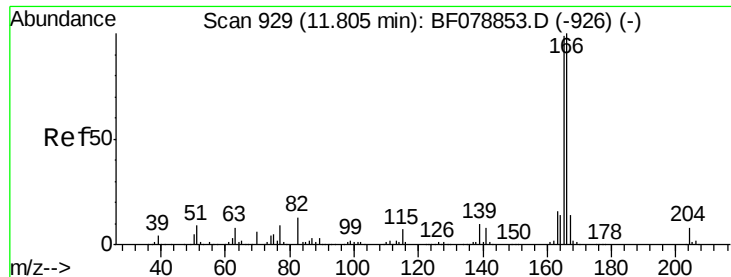
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#54
Dibenzofuran
Concen: 4.92 ng
RT: 11.05 min Scan# 863
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.5	47.3
169	13.3	11.0	16.4





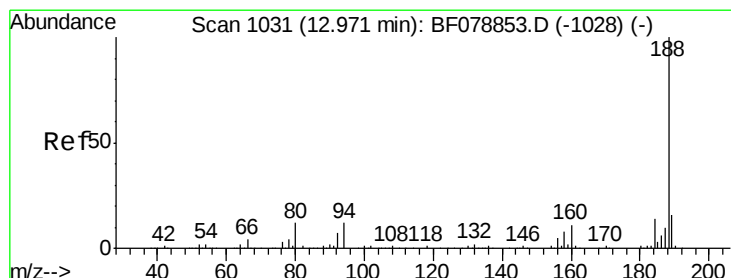
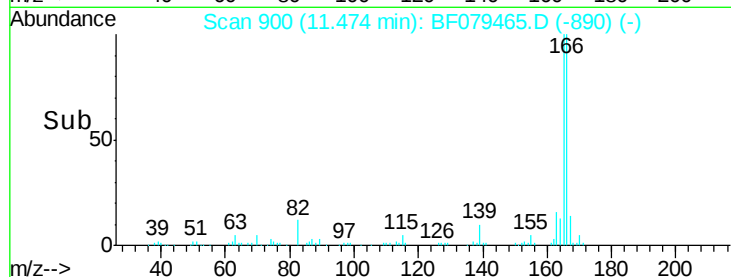
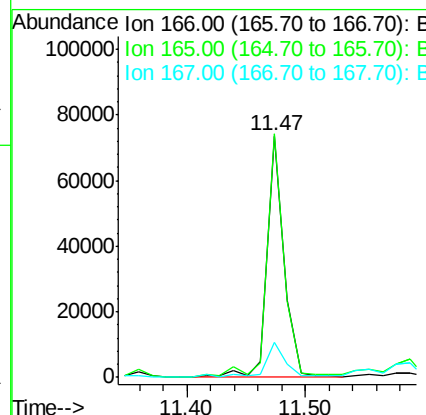
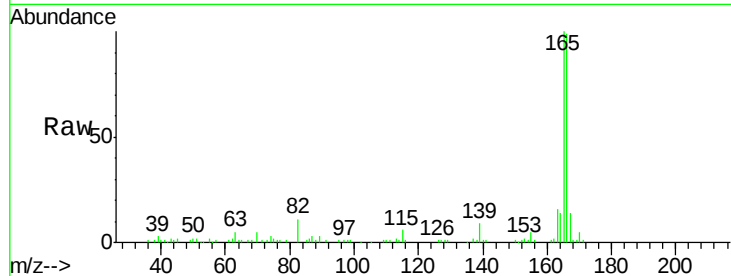
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Fluorene
Concen: 7.37 ng
RT: 11.47 min Scan# 900
Delta R.T. -0.00 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampleID :
SB-31D

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	100.9	79.5	119.3		
167	14.4	11.0	16.6		

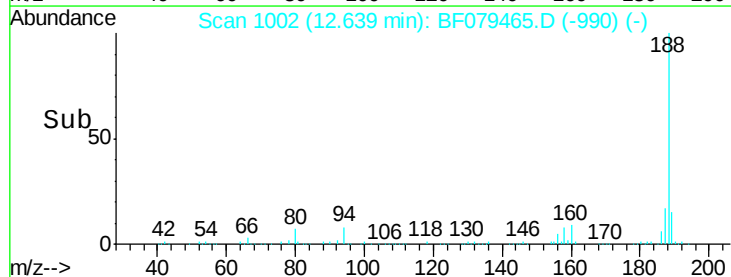
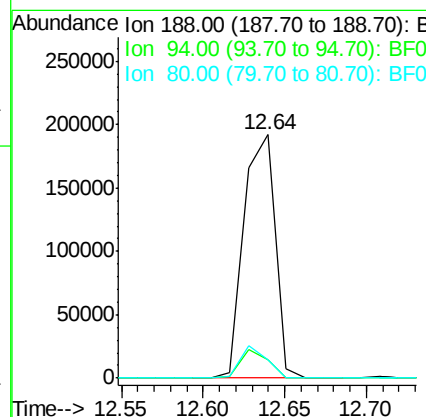
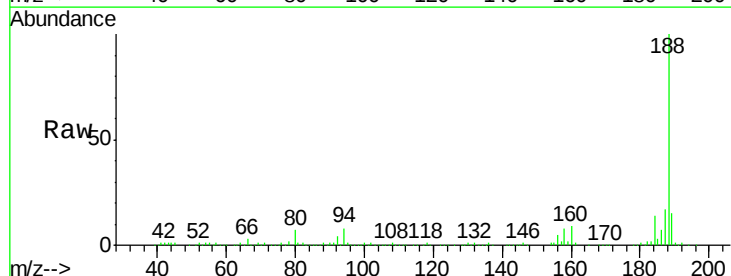
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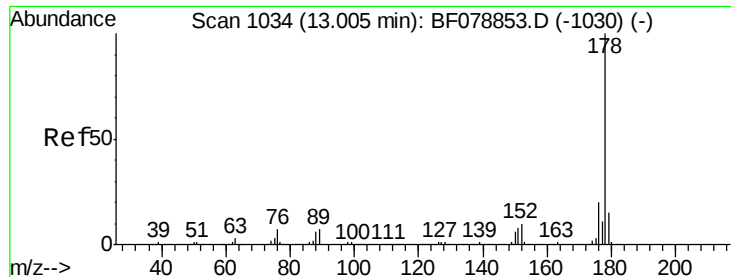
apatel
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.64 min Scan# 1002
Delta R.T. 0.01 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	7.7	9.4	14.0#		
80	7.3	9.8	14.6#		





#70

Phenanthrene

Concen: 41.86 ng

RT: 12.66 min Scan# 1004

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

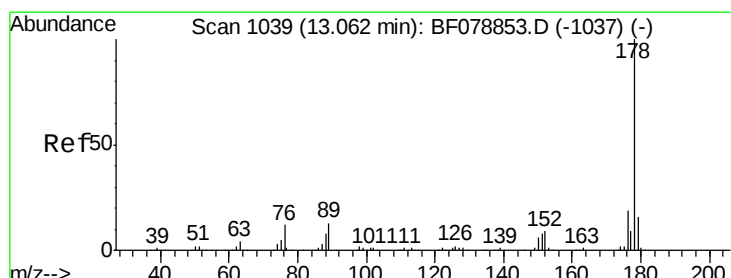
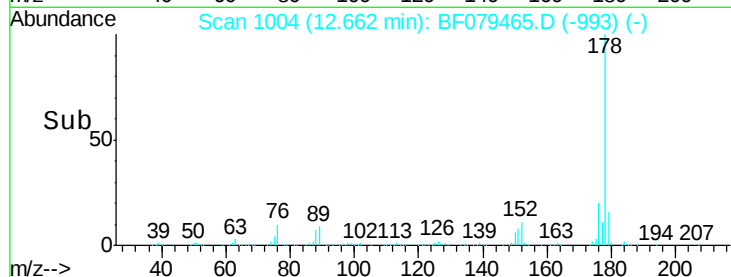
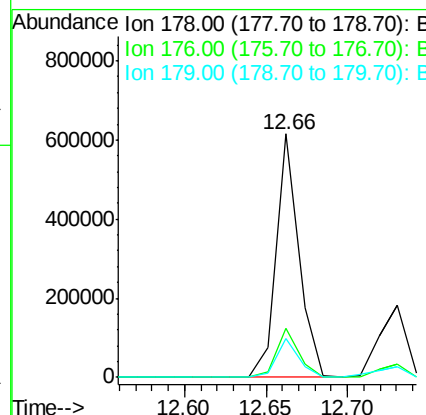
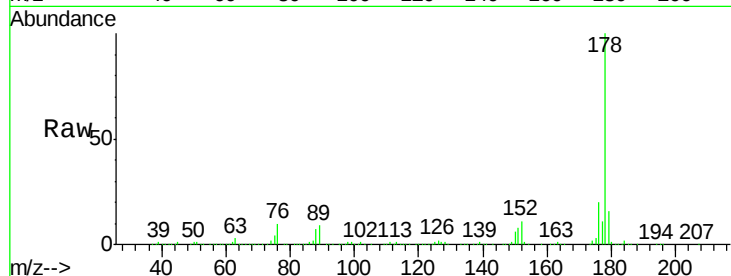
ClientSampleId :

SB-31D

Tot Ion:	178	Resp:	598011
Ion Ratio	Lower	Upper	
178	100		
176	20.2	15.9	23.9
179	15.8	12.2	18.4

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#71

Anthracene

Concen: 14.48 ng

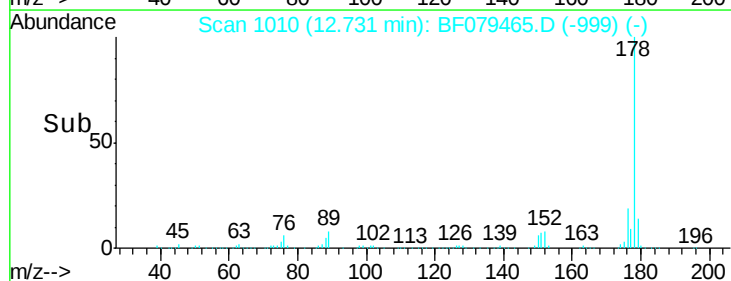
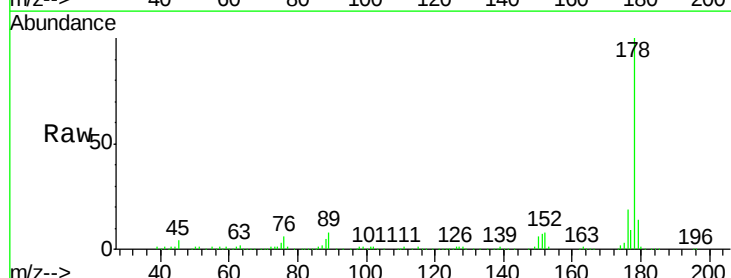
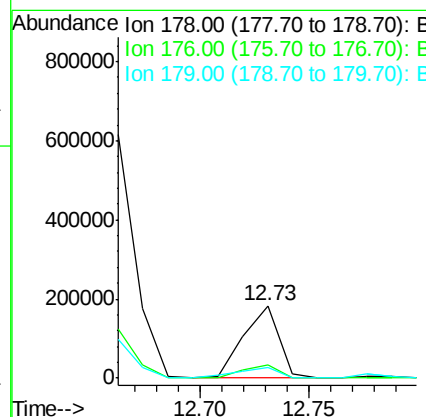
RT: 12.73 min Scan# 1010

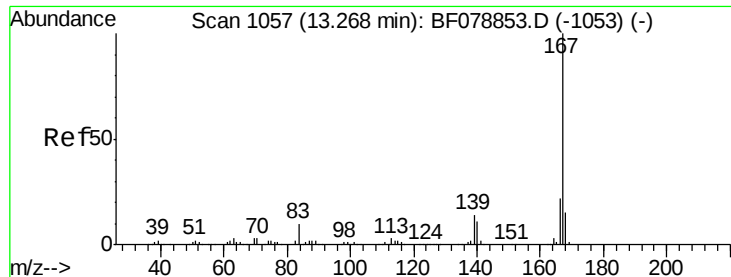
Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Tgt Ion:	178	Resp:	202889
Ion Ratio	Lower	Upper	
178	100		
176	18.8	15.3	22.9
179	14.5	12.6	19.0





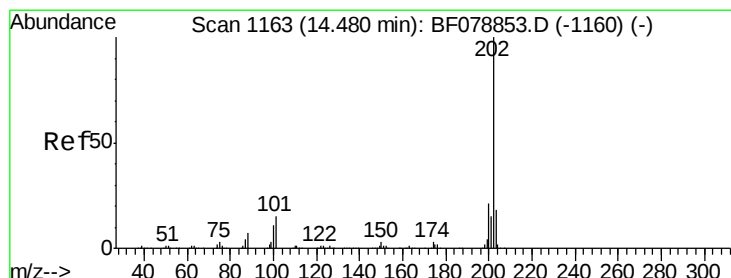
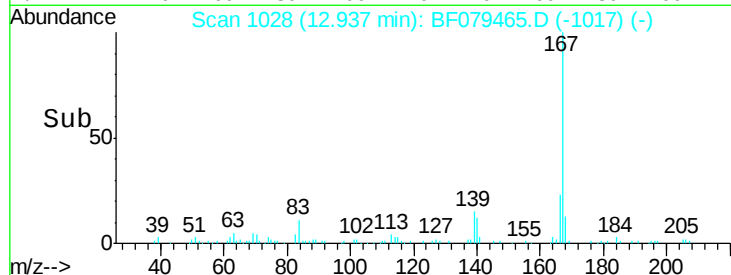
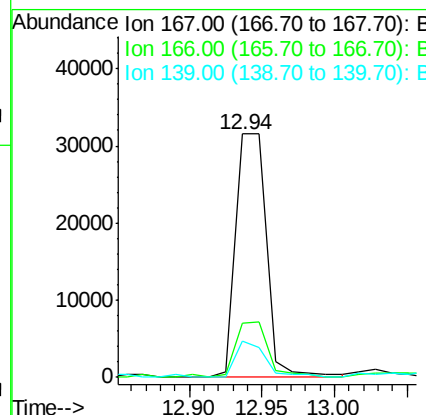
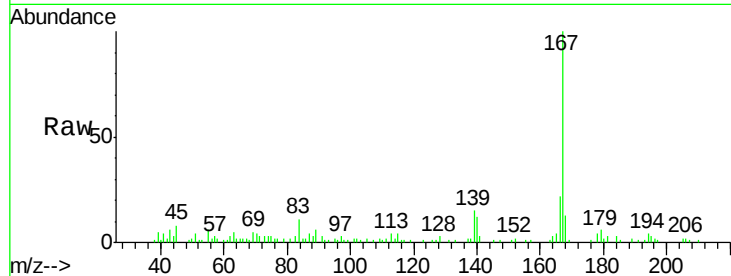
#72
 Carbazole
 Concen: 3.49 ng
 RT: 12.94 min Scan# 1028
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Tot Ion:	167	Resp:	46566
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.5	26.3
139	15.1	11.0	16.4

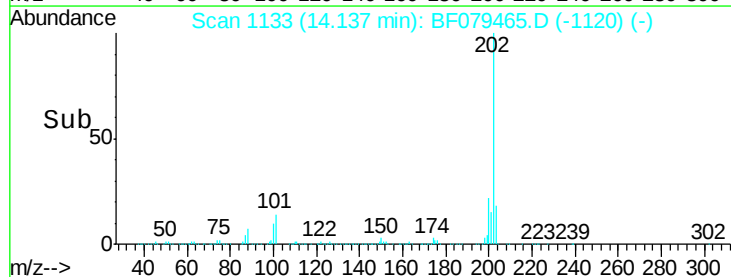
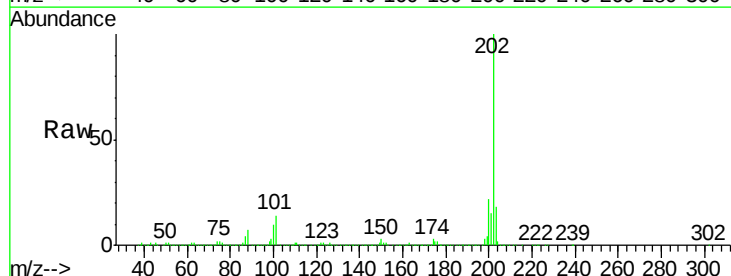
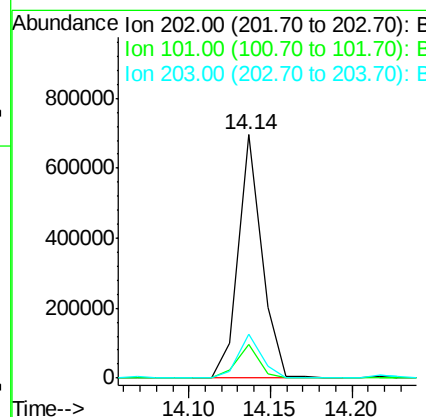
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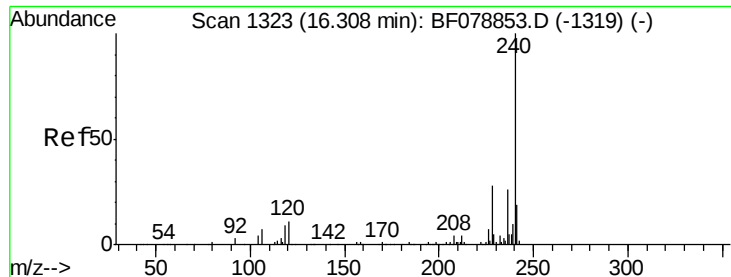
apatel
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#74
 Fluoranthene
 Concen: 46.42 ng
 RT: 14.14 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion:	202	Resp:	690921
Ion Ratio	Lower	Upper	
202	100		
101	14.0	0.0	34.7
203	18.1	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.92 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

Instrument :

BNA_F

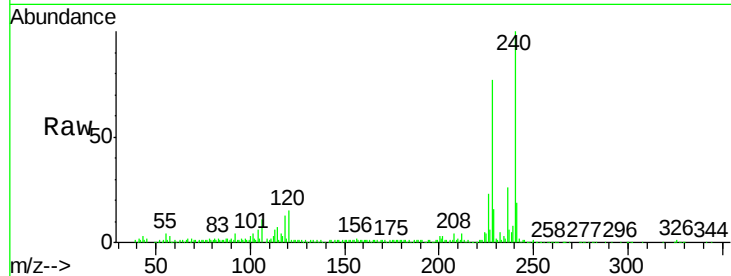
ClientSampleId :

SB-31D

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.3	8.6	12.8#
236	26.1	21.0	31.6

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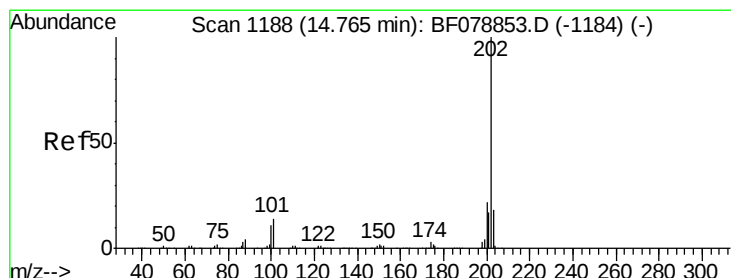
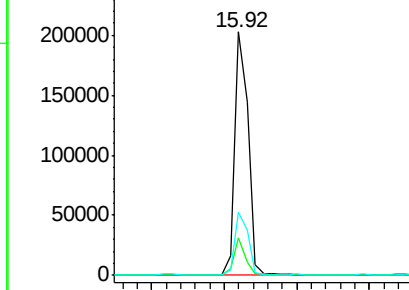
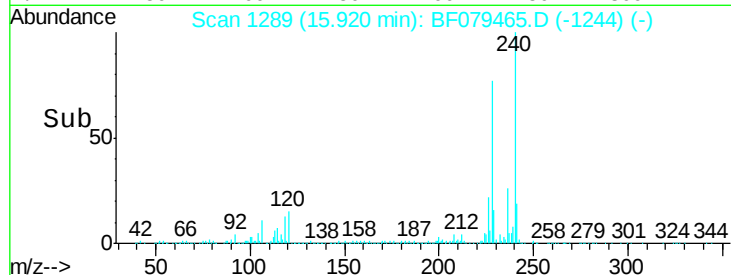
apatel
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 45.40 ng

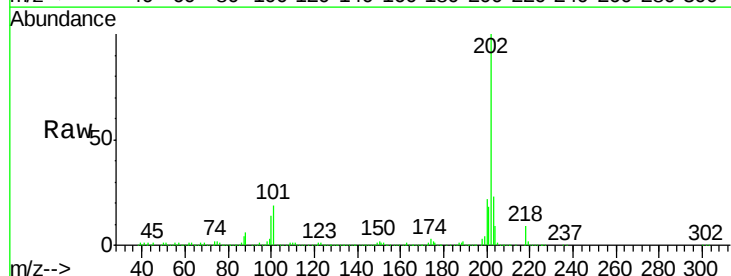
RT: 14.41 min Scan# 1157

Delta R.T. -0.00 min

Lab File: BF079465.D

Acq: 23 May 2015 9:21

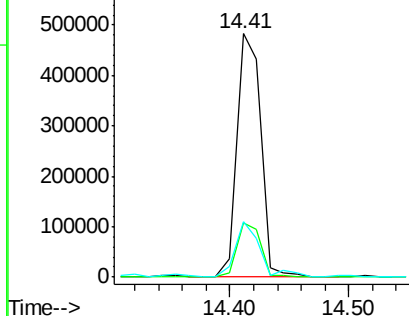
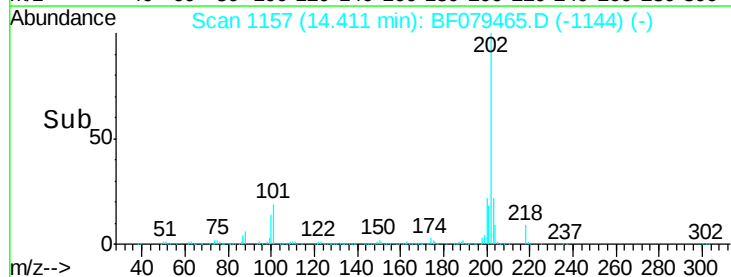
Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.5	26.3
203	23.0	14.7	22.1#

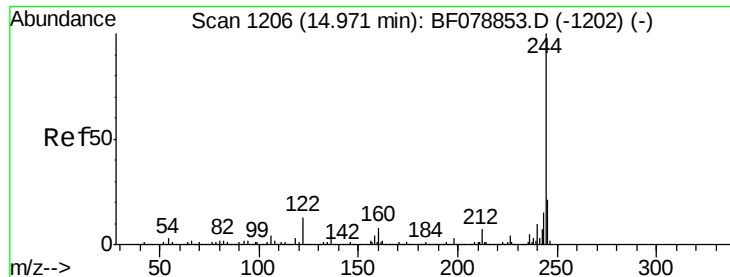


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





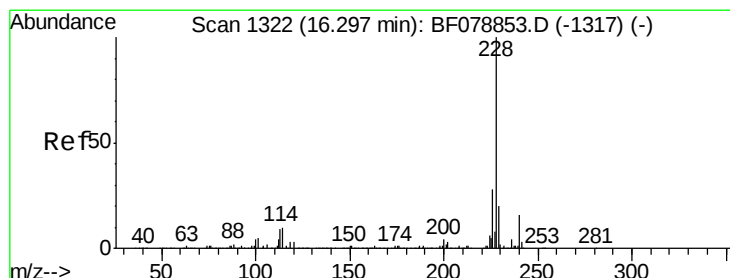
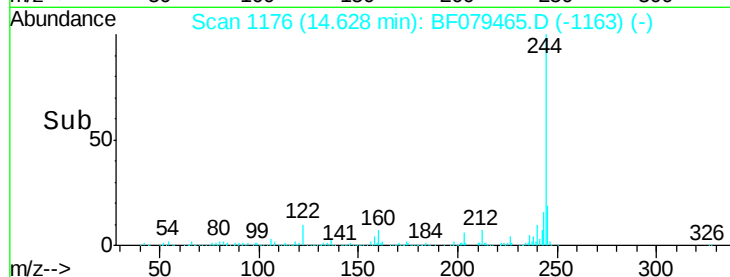
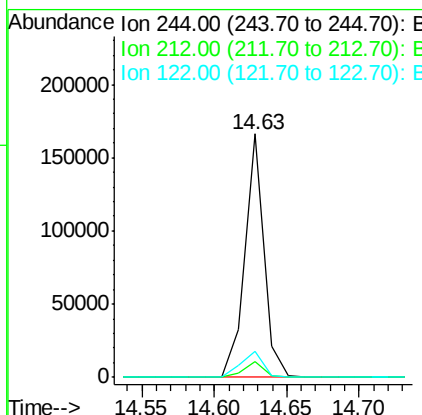
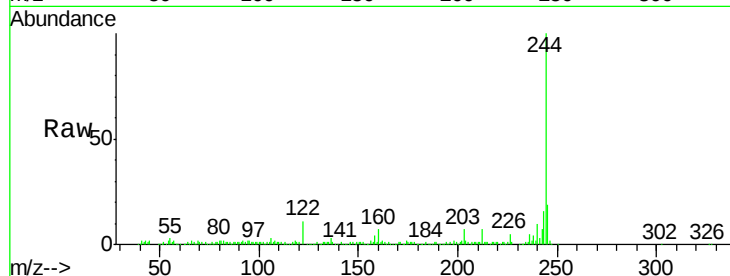
#78
 Terphenyl-d14
 Concen: 14.17 ng
 RT: 14.63 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Instrument :
 BNA_F
 ClientSampleId :
 SB-31D

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.7	10.5	15.7

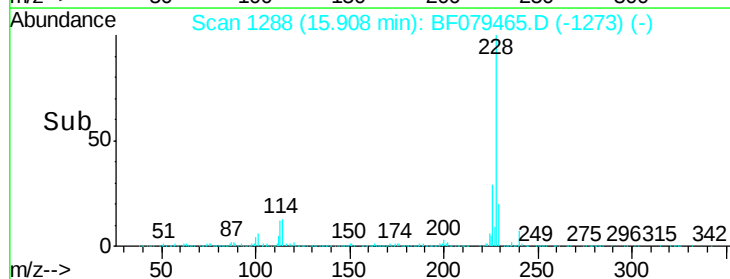
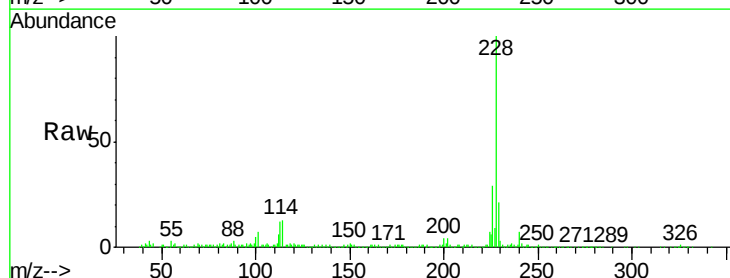
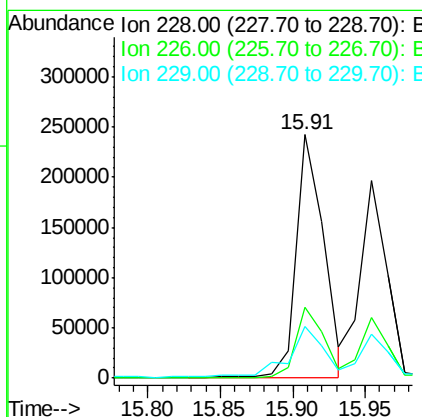
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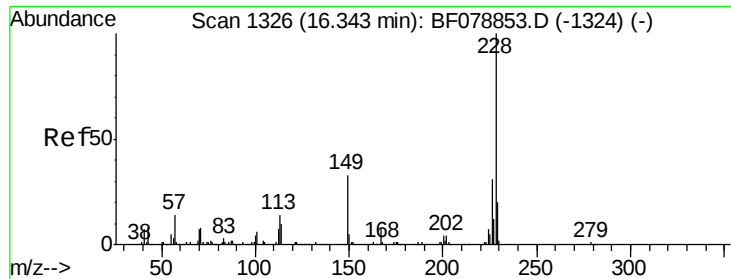
apatel
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#80
 Benzo(a)anthracene
 Concen: 22.33 ng
 RT: 15.91 min Scan# 1288
 Delta R.T. 0.01 min
 Lab File: BF079465.D
 Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.3	33.5
229	20.9	16.1	24.1





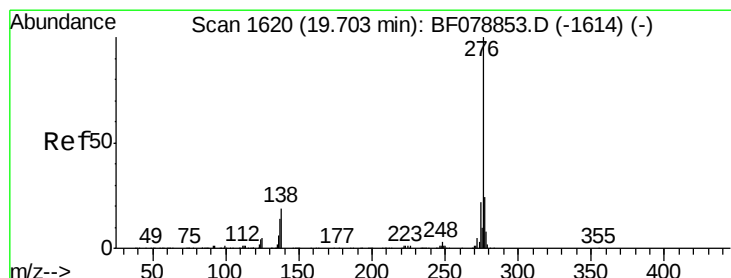
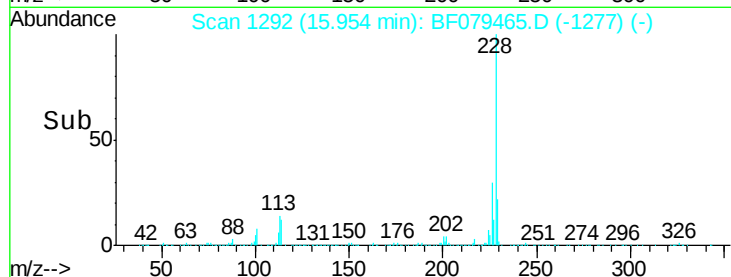
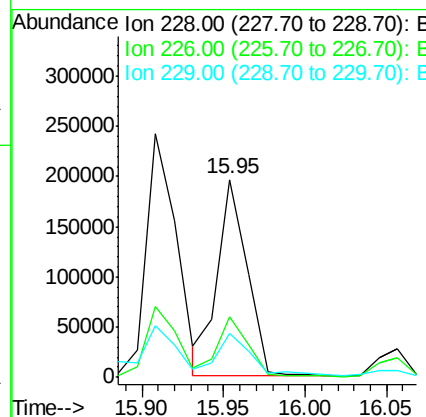
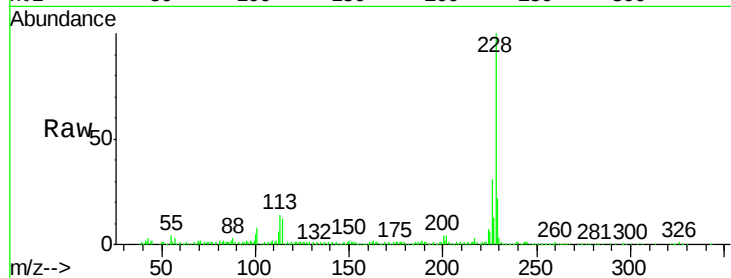
#82
Chrysene
Concen: 18.34 ng
RT: 15.95 min Scan# 1292
Delta R.T. 0.01 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampleId :
SB-31D

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.8	37.2
229	22.2	16.1	24.1

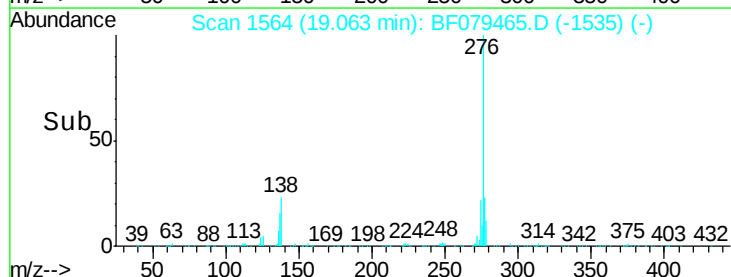
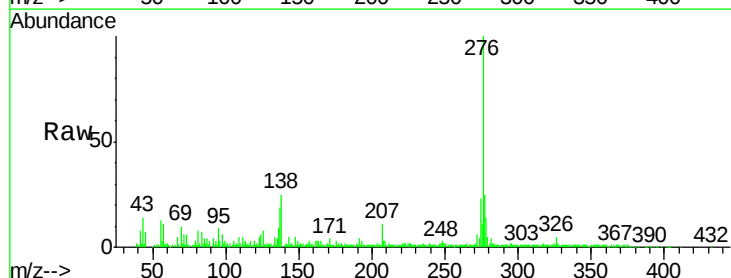
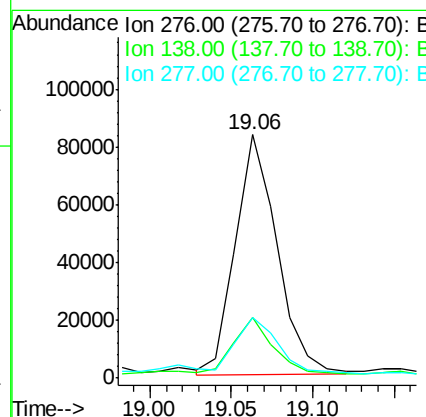
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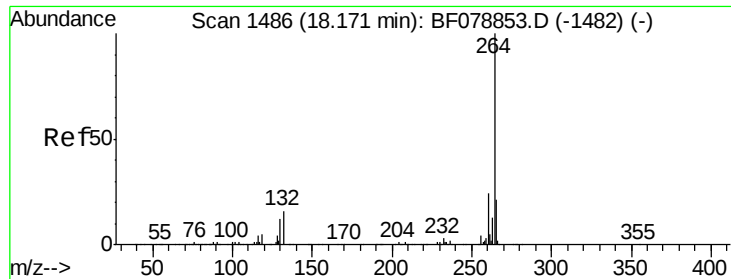
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#85
Indeno(1,2,3-cd)pyrene
Concen: 8.59 ng m
RT: 19.06 min Scan# 1564
Delta R.T. 0.13 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.0	21.1	31.7#
277	4.9	19.9	29.9#





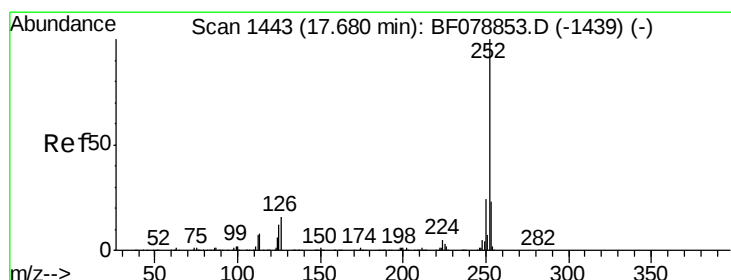
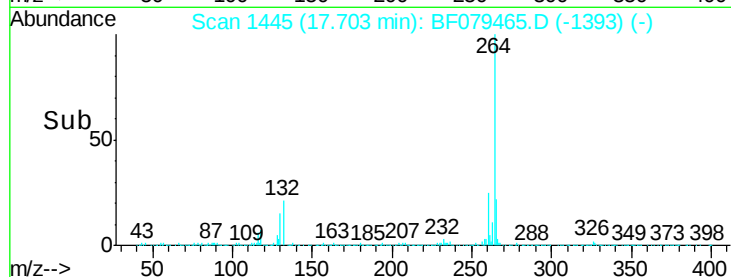
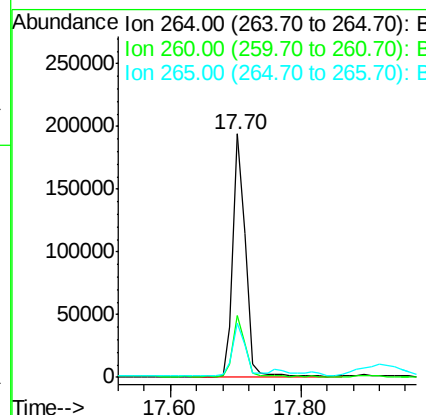
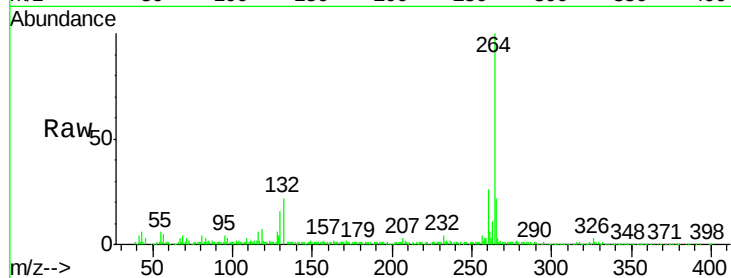
#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.70 min Scan# 1445
Delta R.T. 0.09 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampled :
SB-31D

Tot Ion:	264	Resp:	254120
Ion Ratio	Lower	Upper	
264	100		
260	25.6	19.2	28.8
265	22.1	17.2	25.8

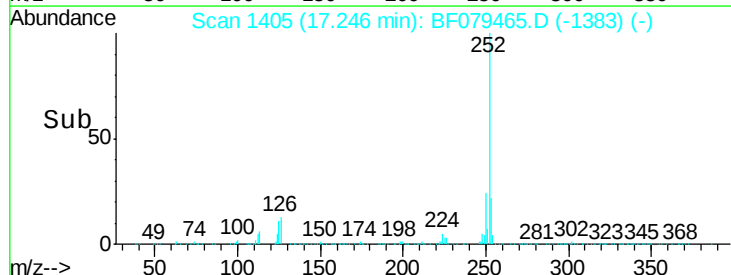
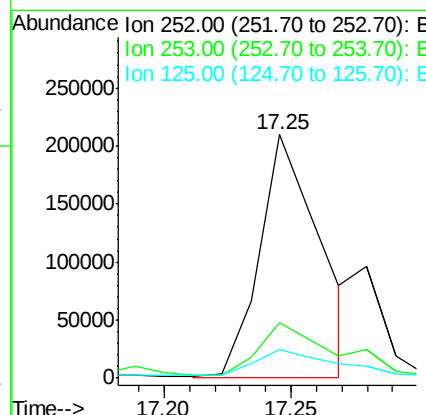
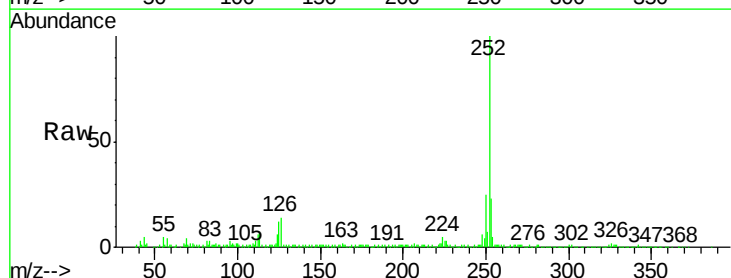
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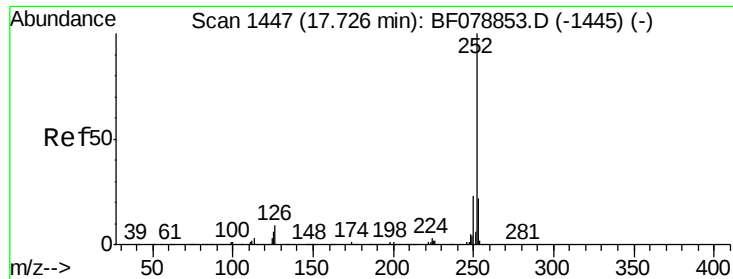
apatel
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#87
Benzo(b)fluoranthene
Concen: 24.84 ng m
RT: 17.25 min Scan# 1405
Delta R.T. 0.07 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion:	252	Resp:	345539
Ion Ratio	Lower	Upper	
252	100		
253	22.6	18.1	27.1
125	11.7	9.4	14.2





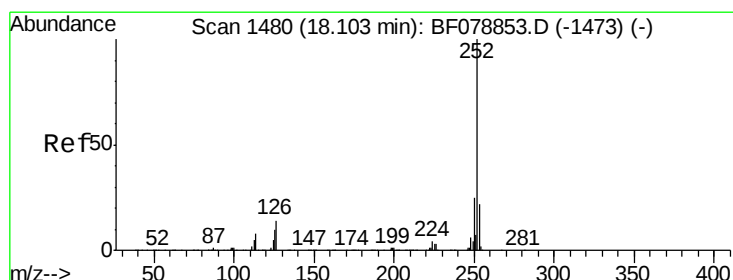
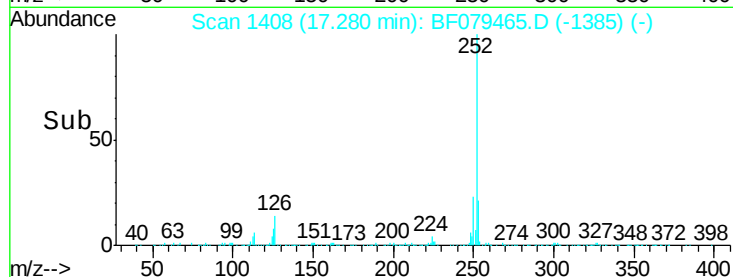
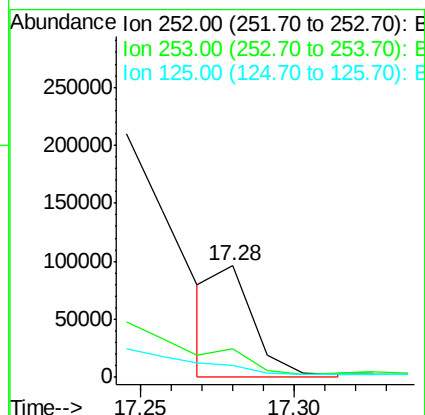
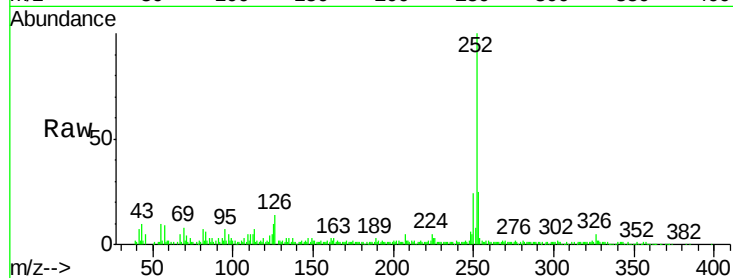
#88
Benzo(k)fluoranthene
Concen: 6.23 ng m
RT: 17.28 min Scan# 1408
Delta R.T. 0.08 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampleId :
SB-31D

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	17.4	26.0
125	10.4	6.1	9.1#

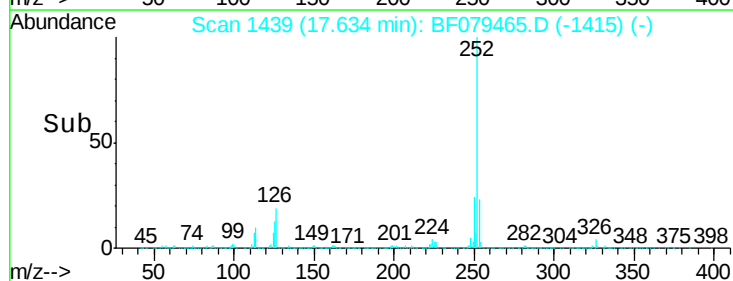
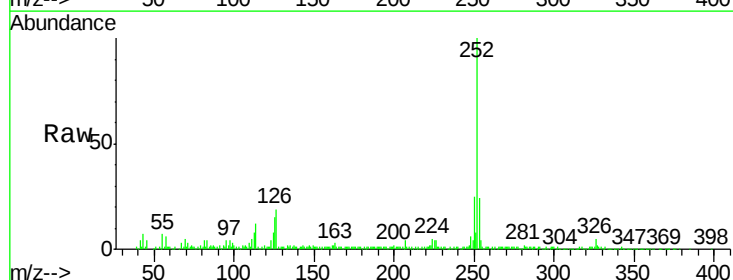
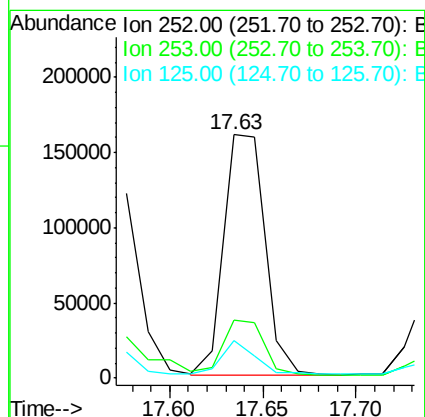
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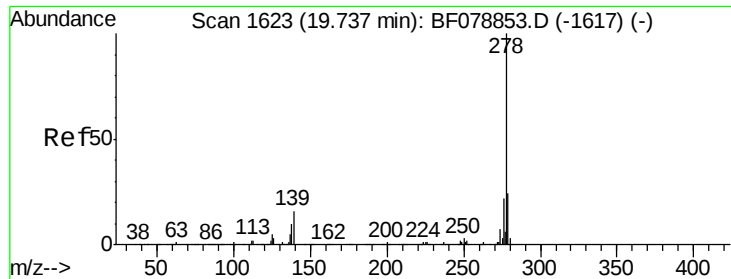
apatel
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#89
Benzo(a)pyrene
Concen: 19.40 ng
RT: 17.63 min Scan# 1439
Delta R.T. 0.09 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.0	27.0
125	15.4	8.2	12.2#





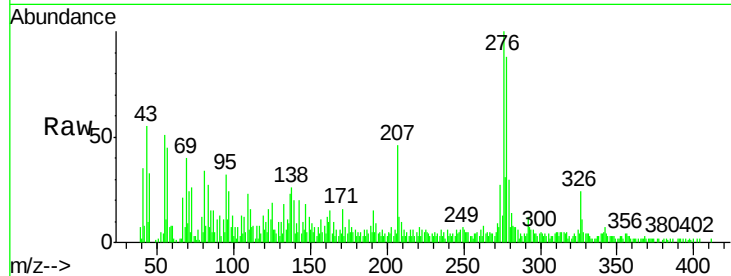
#90
Dibenzo(a,h)anthracene
Concen: 3.00 ng
RT: 19.09 min Scan# 1566
Delta R.T. 0.13 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Instrument :
BNA_F
ClientSampled :
SB-31D

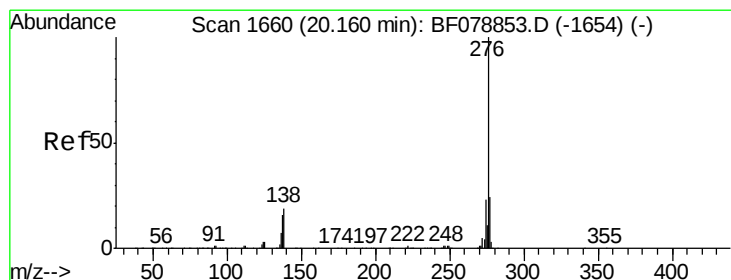
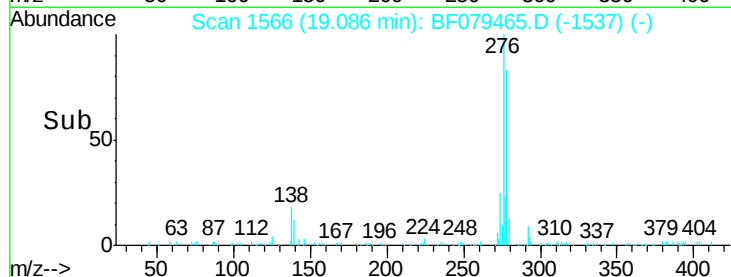
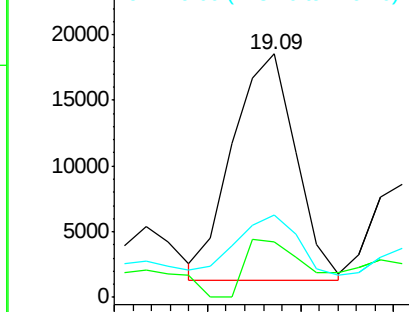
Tot Ion	Ratio	Lower	Upper
278	100		
139	22.7	13.1	19.7#
279	34.0	19.1	28.7#

Manual Integrations
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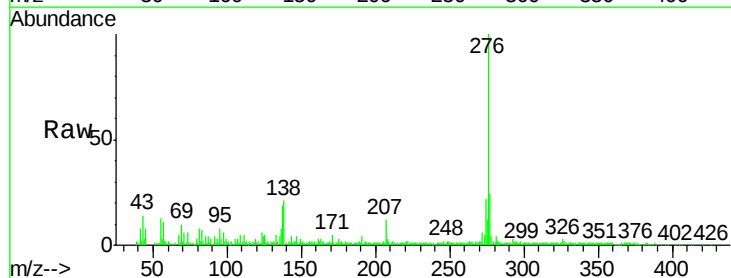


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 11.22 ng
RT: 19.46 min Scan# 1599
Delta R.T. 0.14 min
Lab File: BF079465.D
Acq: 23 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.8	28.2
138	20.6	15.2	22.8



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

