

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061115\
 Data File : BF079929.D
 Acq On : 12 Jun 2015 9:11
 Operator : TP/IZ
 Sample : G2449-07 2X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FM5

Manual Integrations
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apatel
 6/13/2015 8:45:02 AM

Quant Time: Jun 12 15:10:18 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF061115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 12 13:46:24 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.39	152	59205	20.00	ng	0.00
21) Naphthalene-d8	8.68	136	248862	20.00	ng	0.00
38) Acenaphthene-d10	10.46	164	130358	20.00	ng	0.00
63) Phenanthrene-d10	11.98	188	281089	20.00	ng	0.01
75) Chrysene-d12	15.01	240	294053m	20.00	ng	0.16
86) Perylene-d12	16.95	264	308218	20.00	ng	0.24

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	6.01	112	206627	64.00	ng	0.01
7) Phenol-d6	6.99	99	281600	64.02	ng	0.00
23) Nitrobenzene-d5	7.94	82	128302	34.02	ng	-0.01
41) 2,4,6-Tribromophenol	11.26	330	57585	45.83	ng	0.00
44) 2-Fluorobiphenyl	9.76	172	281831	30.27	ng	0.00
78) Terphenyl-d14	13.69	244	286570	22.47	ng	0.08

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.71	128	294649	21.66	ng	99
33) 4-Chloroaniline	8.71	127	37837	7.17	ng	# 31
37) 2-Methylnaphthalene	9.40	142	116596	12.69	ng	99
45) 1,1'-Biphenyl	9.86	154	36709	3.48	ng	97
48) Acenaphthylene	10.32	152	148168	9.77	ng	98
49) Dimethylphthalate	10.15	163	30585	2.93	ng	98
51) Acenaphthene	10.49	154	91911	10.67	ng	97
54) Dibenzofuran	10.66	168	245959	19.53	ng	97
57) Fluorene	11.02	166	273533	24.92	ng	99
70) Phenanthrene	12.00	178	1683225	100.48	ng	97
71) Anthracene	12.06	178	308580	19.04	ng	99
72) Carbazole	12.21	167	203233	12.93	ng	99
74) Fluoranthene	13.29	202	1569348	84.74	ng	98
77) Pyrene	13.55	202	1327005	71.85	ng	99
80) Benzo(a)anthracene	14.99	228	665947	35.66	ng	95
82) Chrysene	15.04	228	556913	33.41	ng	97
85) Indeno(1,2,3-cd)pyrene	18.86	276	239342	12.24	ng	97
87) Benzo(b)fluoranthene	16.39	252	639489m	33.86	ng	
88) Benzo(k)fluoranthene	16.42	252	196374m	10.20	ng	
89) Benzo(a)pyrene	16.79	252	271839	15.14	ng	94
90) Dibenzo(a,h)anthracene	18.88	278	66563	3.77	ng	# 92
91) Benzo(g,h,i)perylene	19.44	276	219448	12.01	ng	100

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

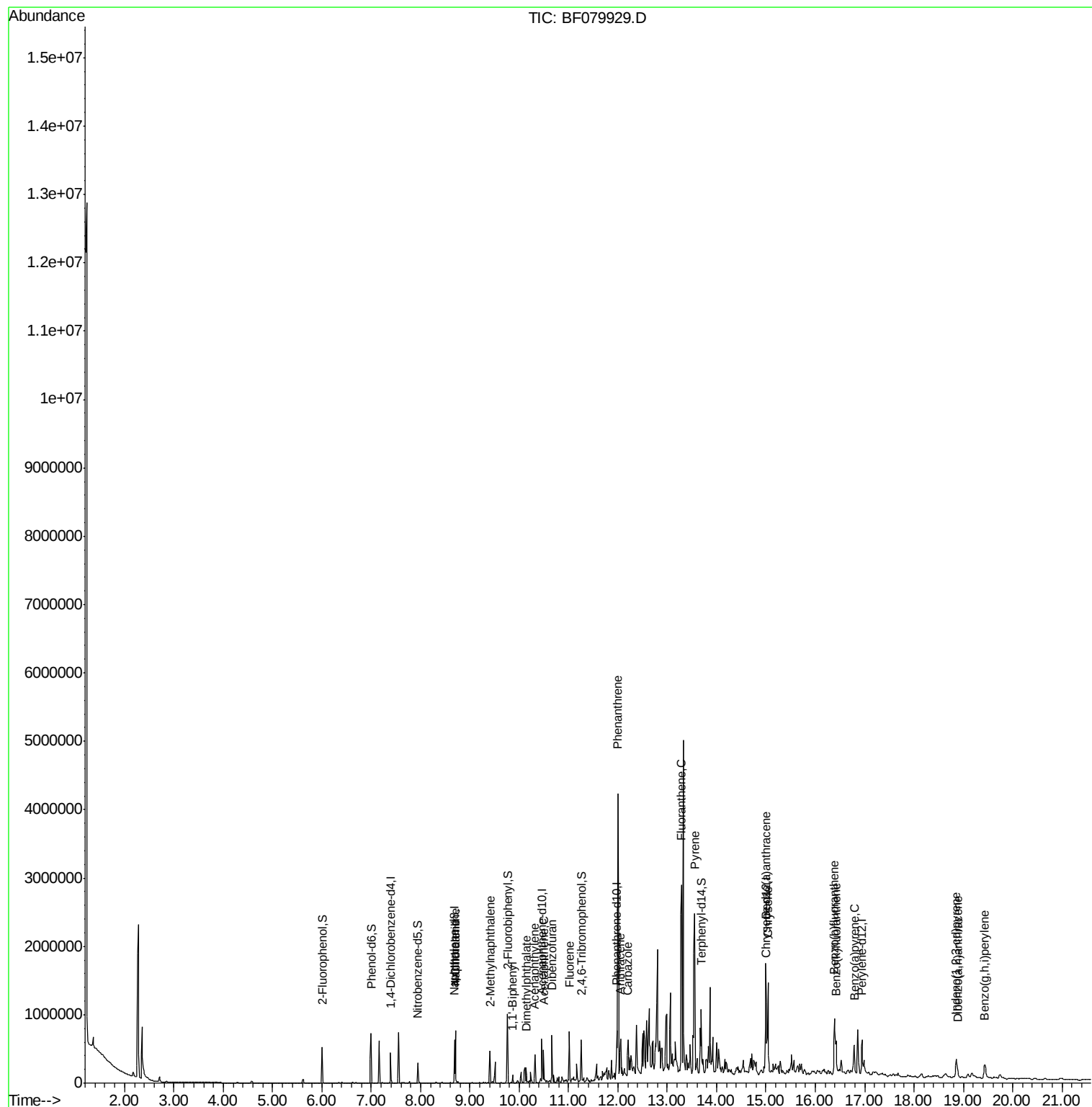
Data Path : Z:\HPCHEM1\BNA F\DATA\BF061115\
Data File : BF079929.D
Acq On : 12 Jun 2015 9:11
Operator : TP/IZ
Sample : G2449-07 2X
Misc :
ALS Vial : 40 Sample Multiplier: 1

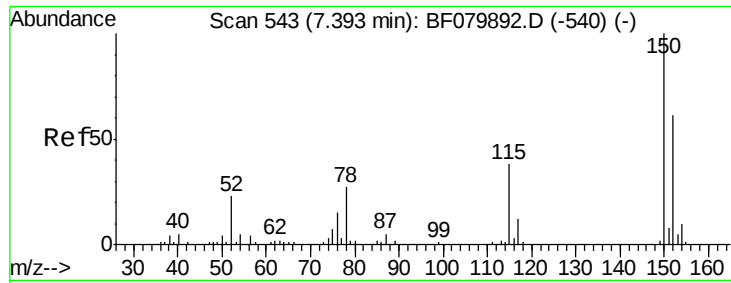
Instrument :
BNA_F
ClientSampleId :
FM5

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Quant Time: Jun 12 15:10:18 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF061115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 12 13:46:24 2015
Response via : Initial Calibration





#1

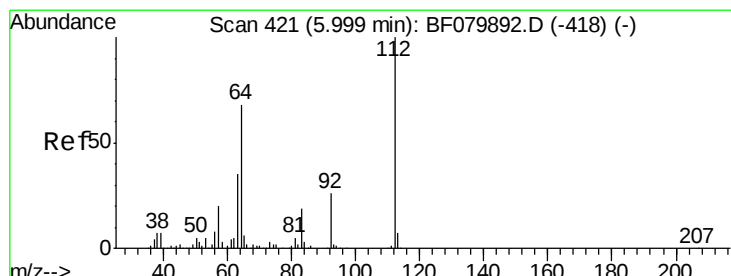
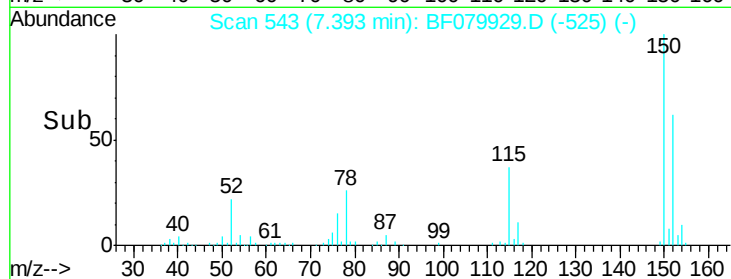
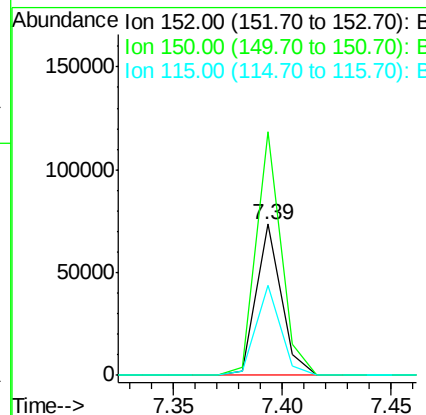
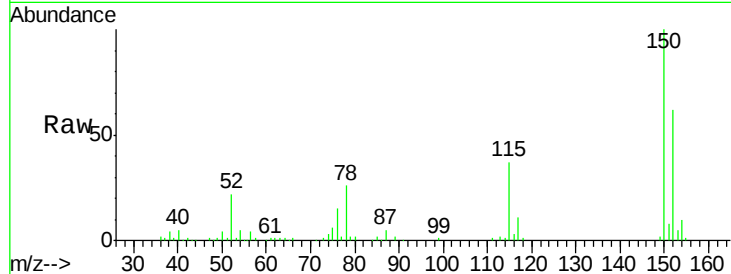
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.39 min Scan# 543
Delta R.T. 0.00 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Instrument :
BNA_F
ClientSampleId :
FM5

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.1	131.0	196.4
115	59.9	49.8	74.6

Manual Integrations
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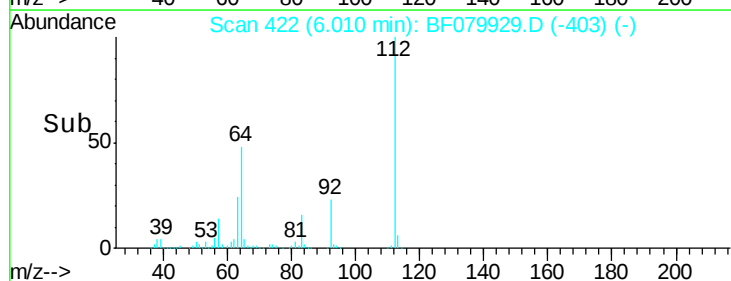
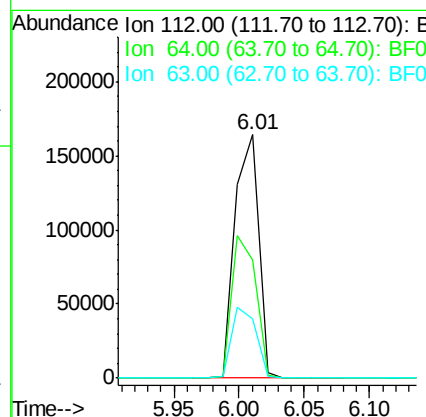
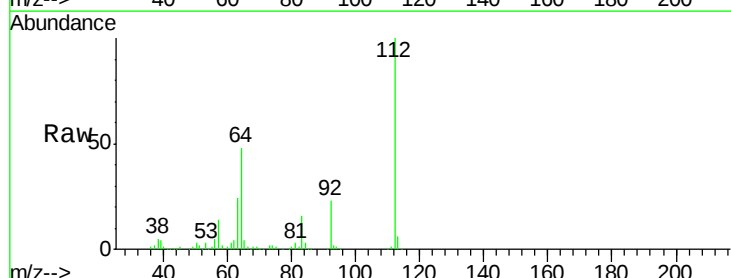
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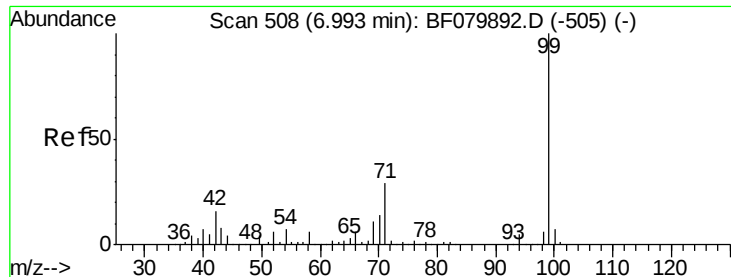


#5

2-Fluorophenol
Concen: 64.00 ng
RT: 6.01 min Scan# 422
Delta R.T. 0.01 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.5	54.5	81.7#
63	24.1	27.9	41.9#





#7

Phenol-d6

Concen: 64.02 ng

RT: 6.99 min Scan# 508

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

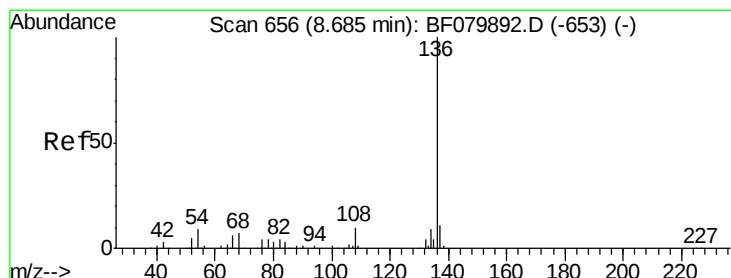
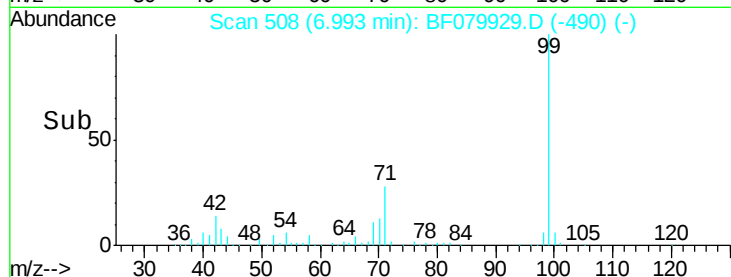
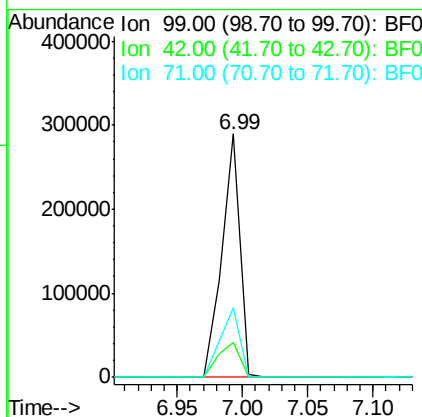
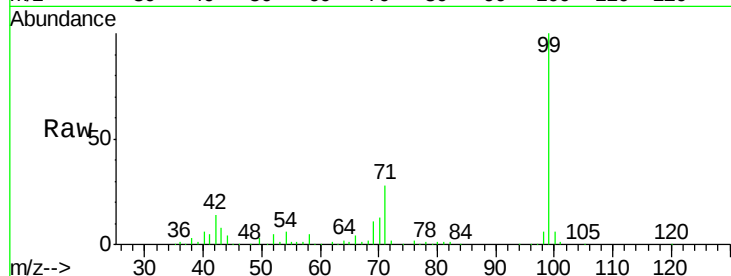
ClientSampleId :

FM5

Tot Ion:	99	Resp:	281600
Ion Ratio	Lower	Upper	
99	100		
42	14.3	12.9	19.3
71	28.5	23.4	35.2

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#21

Naphthalene-d8

Concen: 20.00 ng

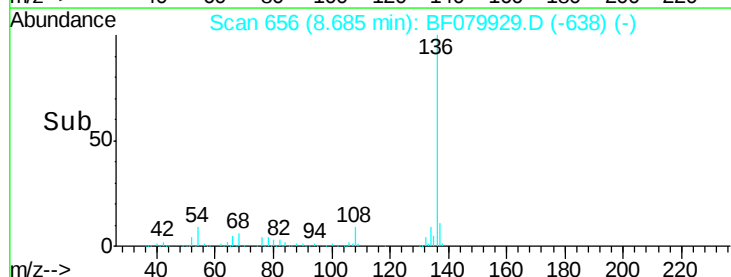
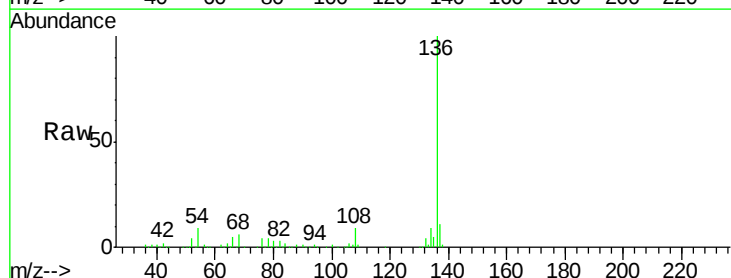
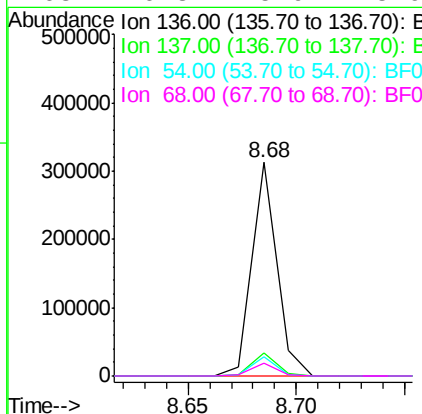
RT: 8.68 min Scan# 656

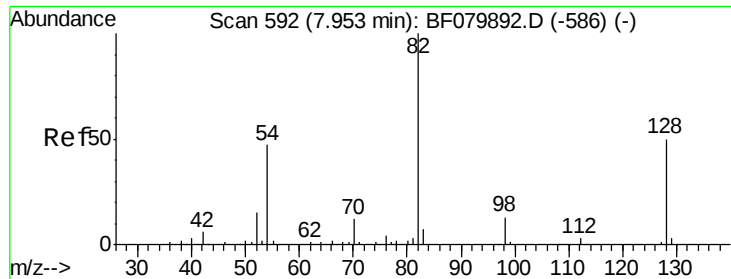
Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Tgt Ion:	136	Resp:	248862
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.7	13.1
54	8.7	7.3	10.9
68	6.3	5.9	8.9





#23

Nitrobenzene-d5

Concen: 34.02 ng

RT: 7.94 min Scan# 591

Delta R.T. -0.01 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

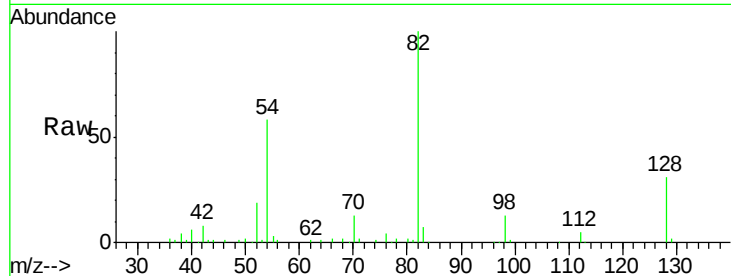
ClientSampleId :

FM5

Tot Ion:	82	Resp:	128302
Ion Ratio	Lower	Upper	
82	100		
128	30.6	40.3	60.5#
54	58.2	38.0	57.0#

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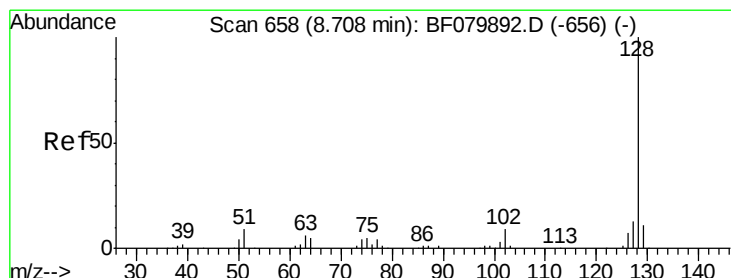
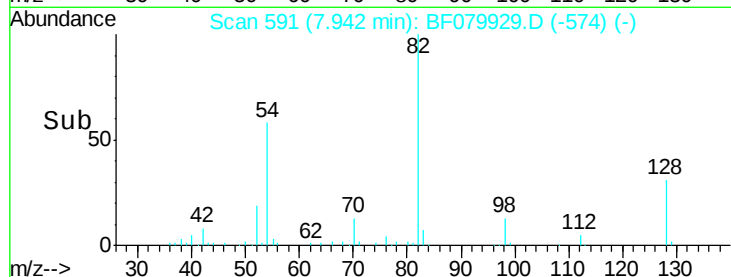
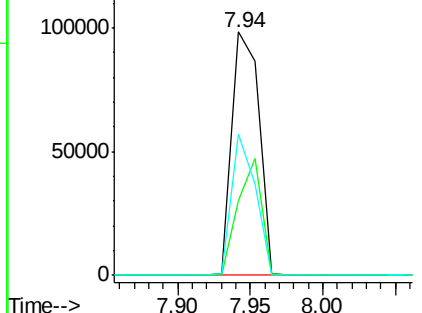
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Abundance Ion 82.00 (81.70 to 82.70): BF079892.D (-586) (-)

Ion 128.00 (127.70 to 128.70): BF079892.D (-586) (-)

Ion 54.00 (53.70 to 54.70): BF079892.D (-586) (-)



#31

Naphthalene

Concen: 21.66 ng

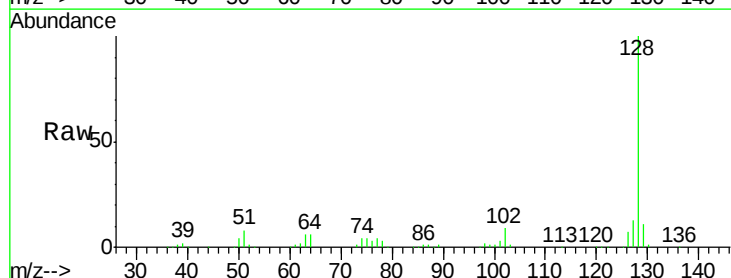
RT: 8.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

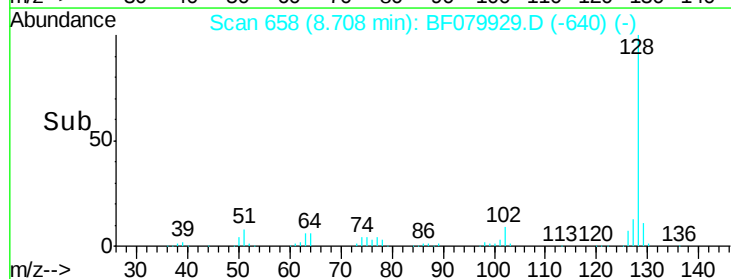
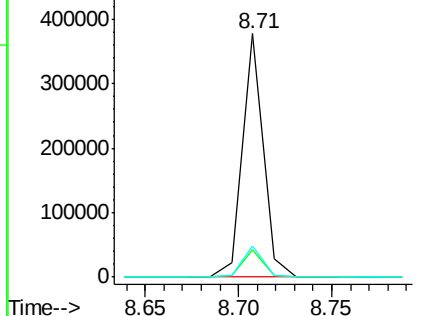
Tgt Ion:	128	Resp:	294649
Ion Ratio	Lower	Upper	
128	100		
129	11.2	8.8	13.2
127	12.9	10.5	15.7

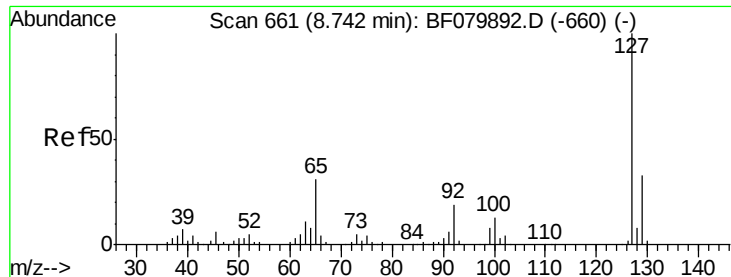


Abundance Ion 128.00 (127.70 to 128.70): BF079892.D (-656) (-)

Ion 129.00 (128.70 to 129.70): BF079892.D (-656) (-)

Ion 127.00 (126.70 to 127.70): BF079892.D (-656) (-)





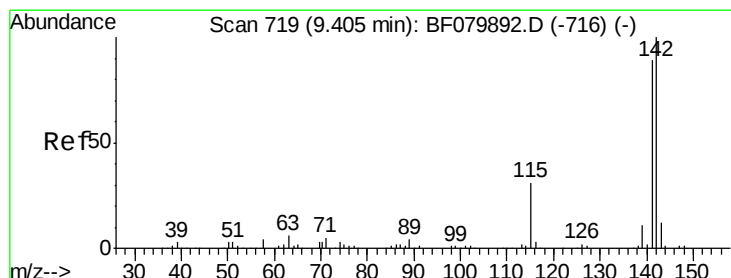
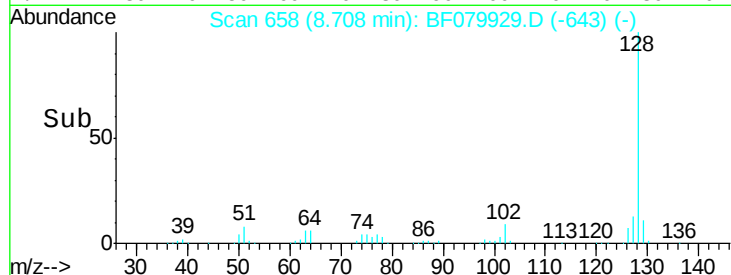
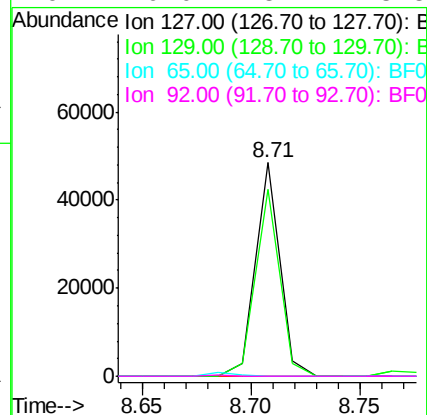
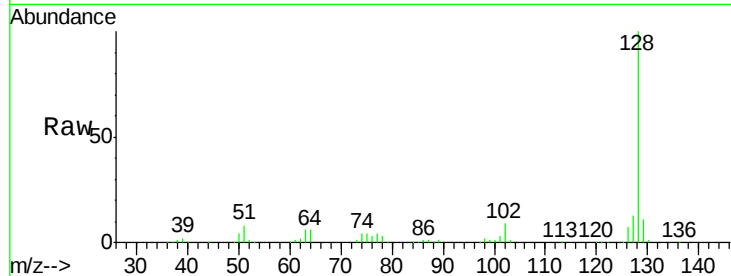
#33
 4-Chloroaniline
 Concen: 7.17 ng
 RT: 8.71 min Scan# 658
 Delta R.T. -0.03 min
 Lab File: BF079929.D
 Acq: 12 Jun 2015 9:11

Instrument :
 BNA_F
 ClientSampleId :
 FM5

Tot Ion	Ratio	Resp Lower	Upper
127	100		
129	87.3	26.1	39.1#
65	0.0	25.5	38.3#
92	0.0	15.7	23.5#

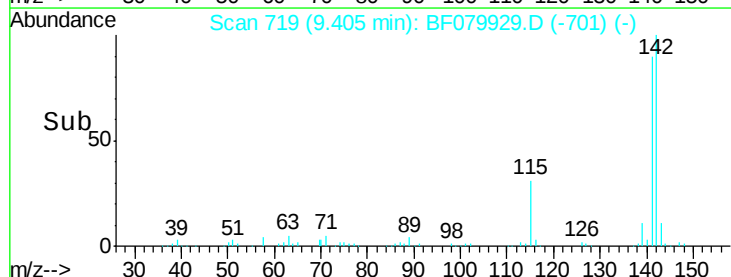
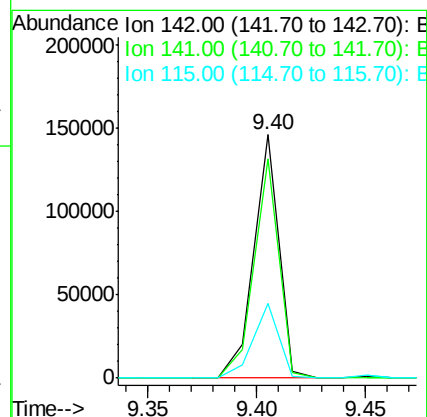
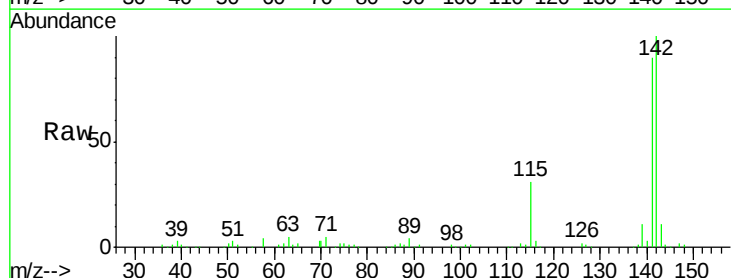
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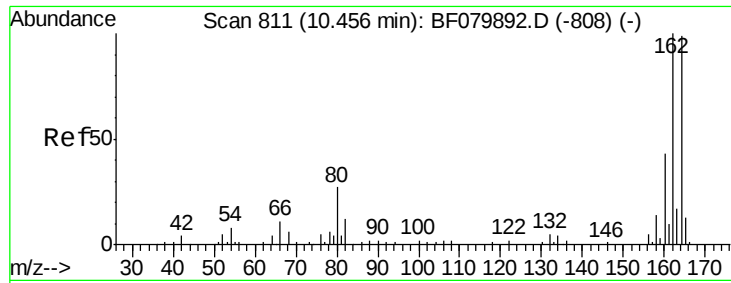
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#37
 2-Methylnaphthalene
 Concen: 12.69 ng
 RT: 9.40 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: BF079929.D
 Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	90.0	70.9	106.3
115	30.5	25.0	37.4





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.46 min Scan# 811

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

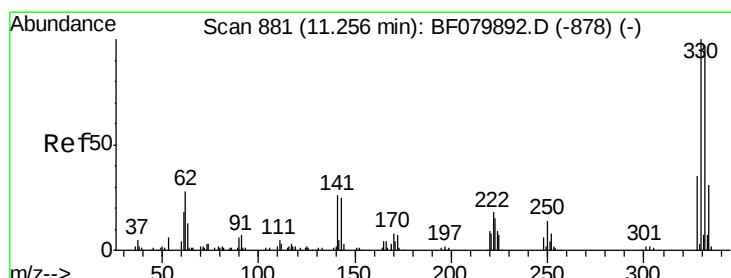
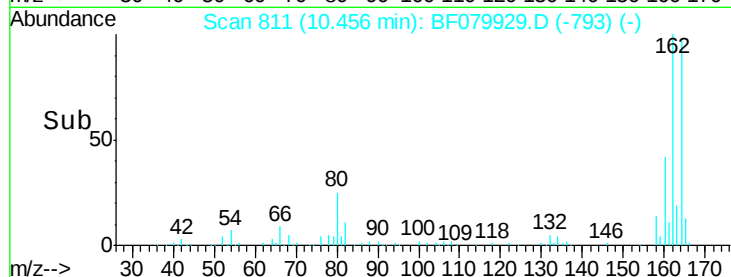
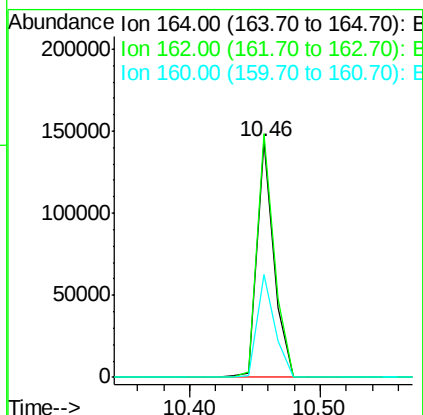
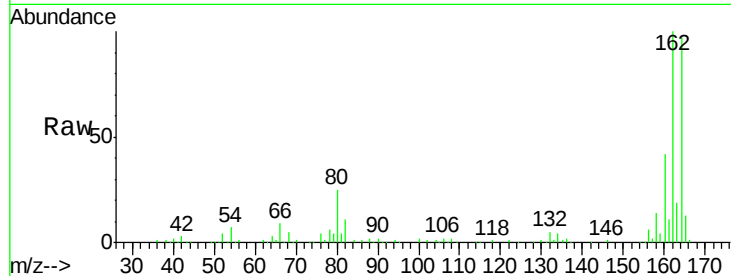
ClientSampled :

FM5

Tot Ion:	164	Resp:	130358
Ion Ratio	Lower	Upper	
164	100		
162	103.4	80.7	121.1
160	43.6	34.6	51.8

Manual Integrations
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#41

2,4,6-Tribromophenol

Concen: 45.83 ng

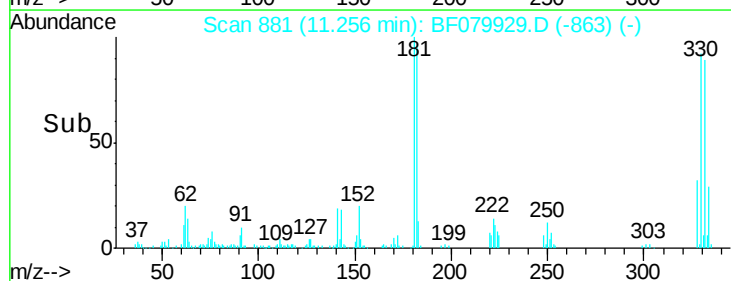
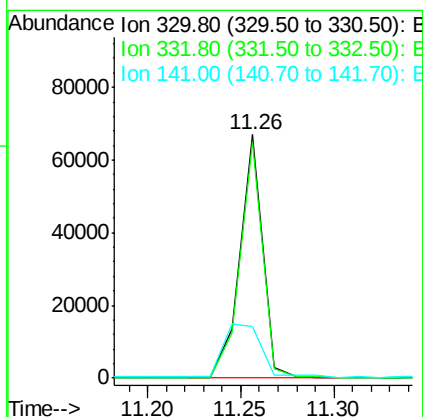
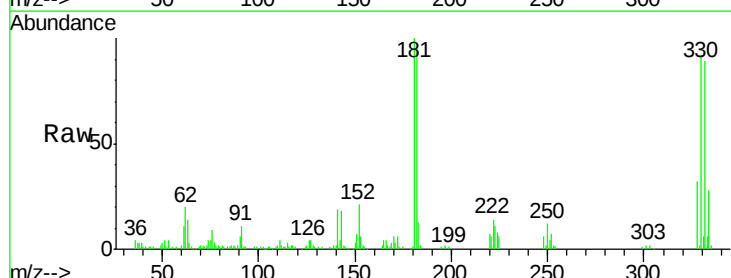
RT: 11.26 min Scan# 881

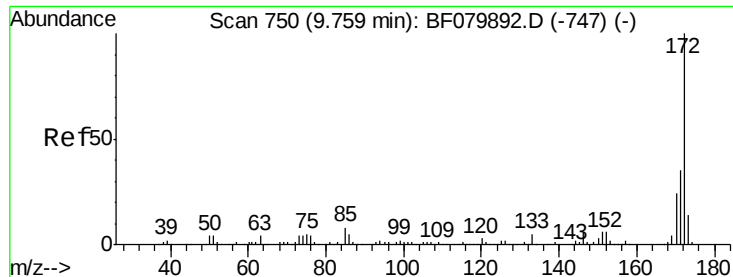
Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Tgt Ion:	330	Resp:	57585
Ion Ratio	Lower	Upper	
330	100		
332	96.3	77.3	115.9
141	40.3	26.8	40.2#





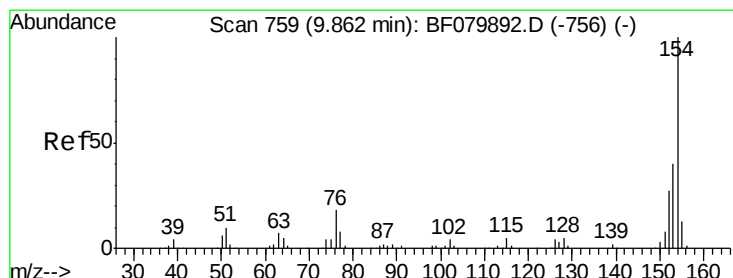
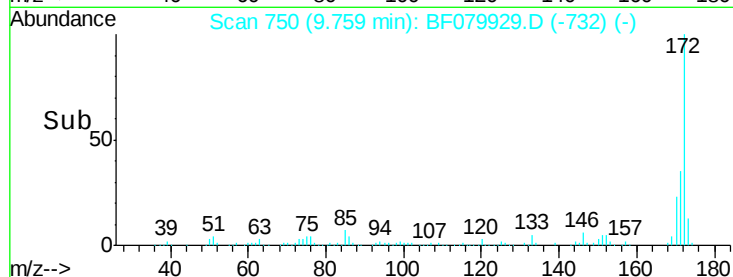
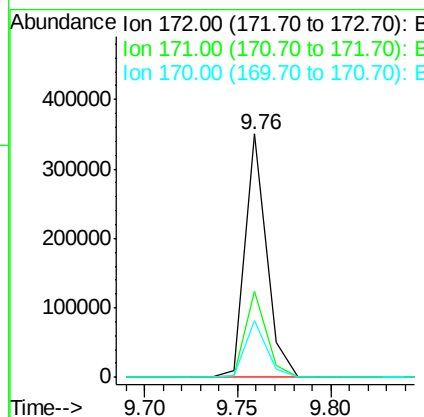
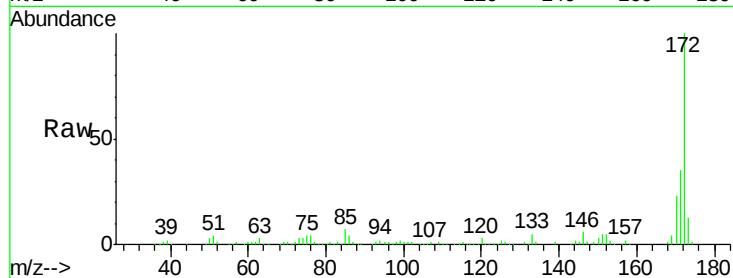
#44
 2-Fluorobiphenyl
 Concen: 30.27 ng
 RT: 9.76 min Scan# 750
 Delta R.T. 0.00 min
 Lab File: BF079929.D
 Acq: 12 Jun 2015 9:11

Instrument :
 BNA_F
 ClientSampleId :
 FM5

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	35.3	28.3	42.5
170	23.4	19.0	28.4

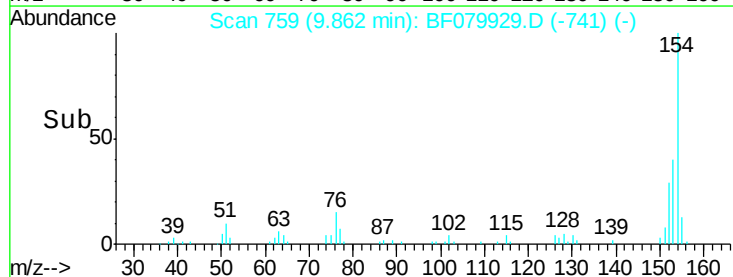
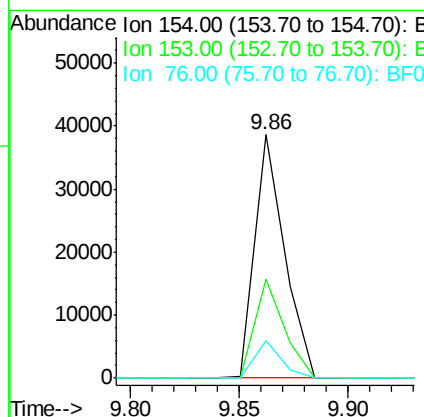
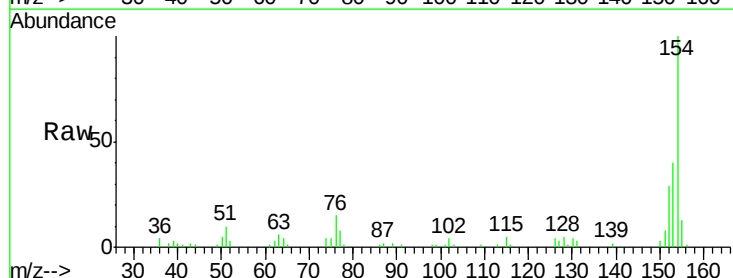
Manual Integrations
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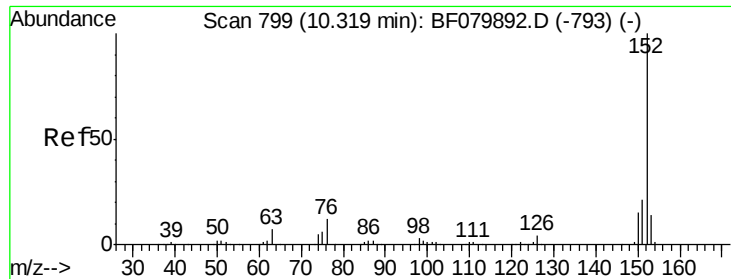
apatel
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#45
 1,1'-Biphenyl
 Concen: 3.48 ng
 RT: 9.86 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: BF079929.D
 Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	40.4	20.1	60.1
76	15.3	0.0	38.4





#48

Acenaphthylene

Concen: 9.77 ng

RT: 10.32 min Scan# 799

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

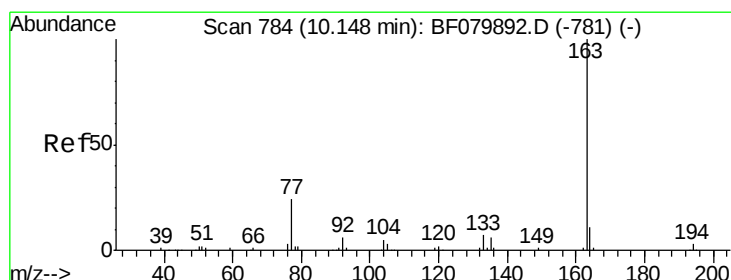
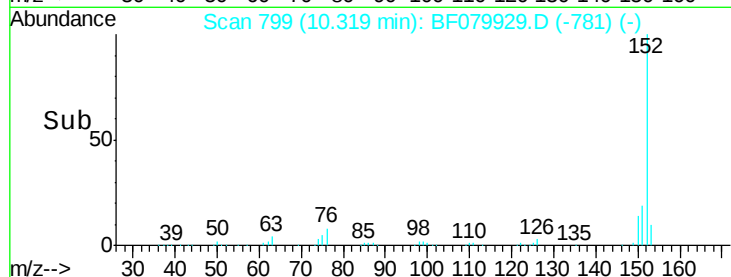
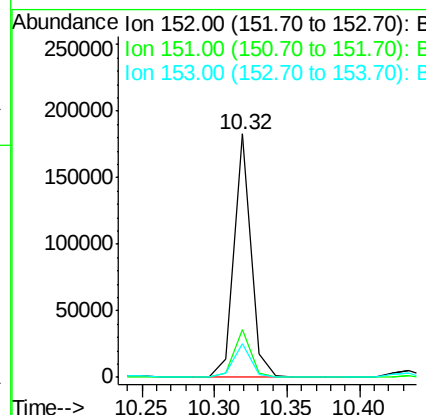
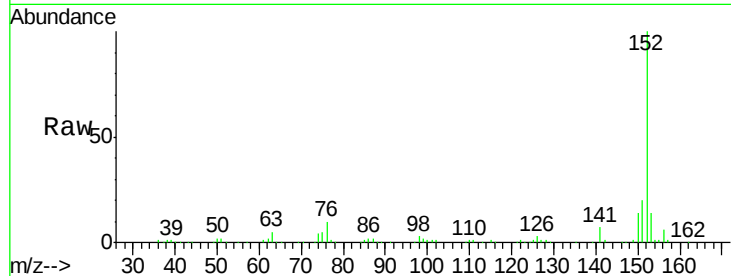
ClientSampleId :

FM5

Tot Ion:	152	Resp:	148168
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.8	25.2
153	13.6	10.8	16.2

Manual Integrations
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#49

Dimethylphthalate

Concen: 2.93 ng

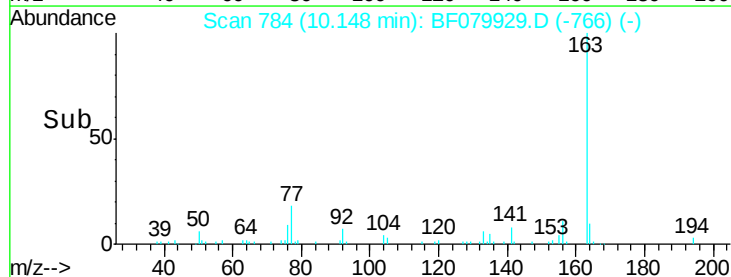
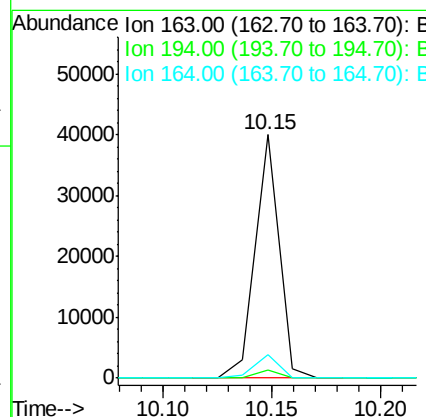
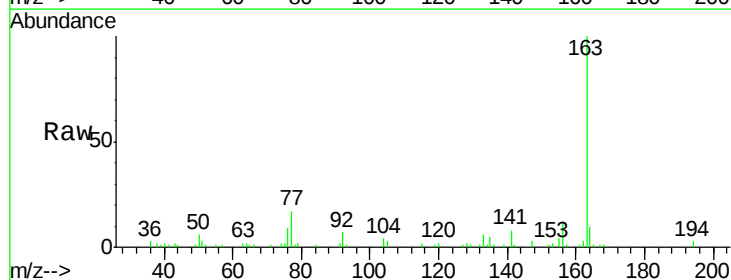
RT: 10.15 min Scan# 784

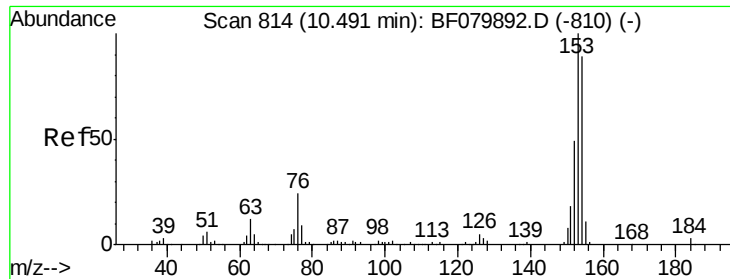
Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Tgt Ion:	163	Resp:	30585
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.6	4.0
164	9.9	8.6	12.8





#51

Acenaphthene

Concen: 10.67 ng

RT: 10.49 min Scan# 814

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

ClientSampleId :

FM5

Tot Ion:154 Resp: 91911

Ion Ratio Lower Upper

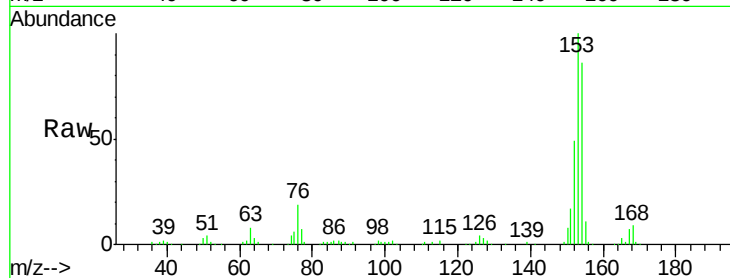
154 100

153 115.7 90.0 135.0

152 56.2 43.7 65.5

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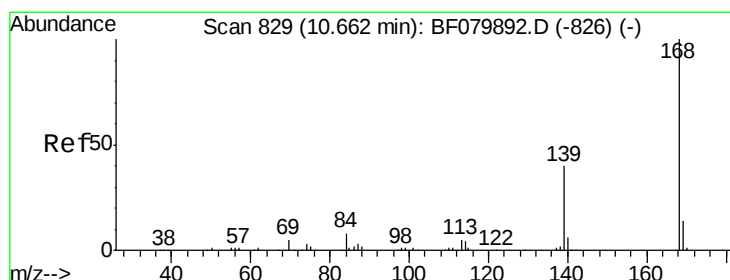
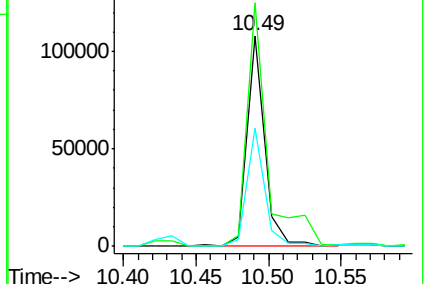
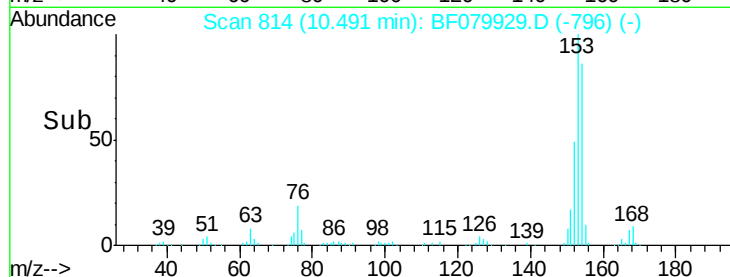
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 19.53 ng

RT: 10.66 min Scan# 829

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

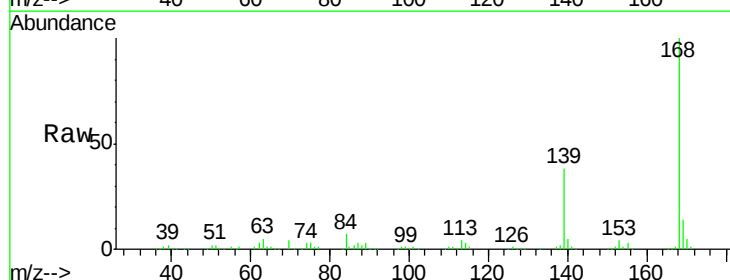
Tgt Ion:168 Resp: 245959

Ion Ratio Lower Upper

168 100

139 37.8 32.2 48.2

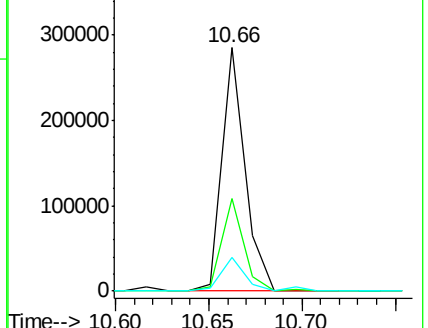
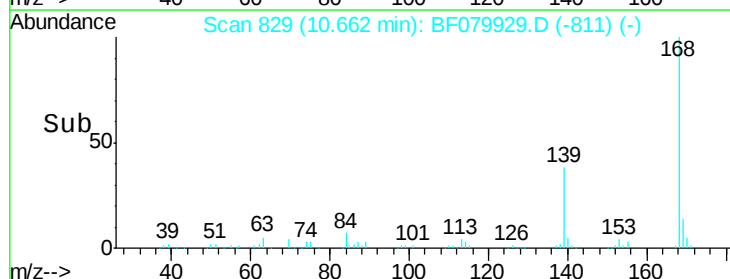
169 13.9 11.0 16.6

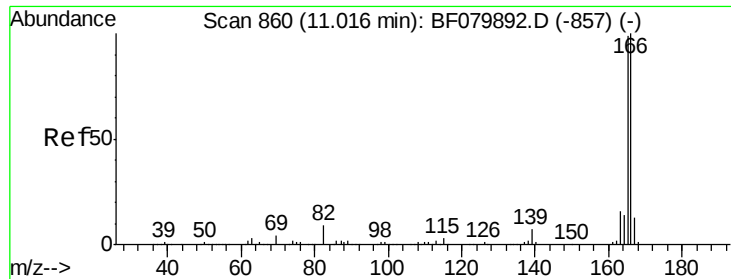


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 24.92 ng

RT: 11.02 min Scan# 860

Delta R.T. 0.00 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

ClientSampleId :

FM5

Tot Ion:166 Resp: 273533

Ion Ratio Lower Upper

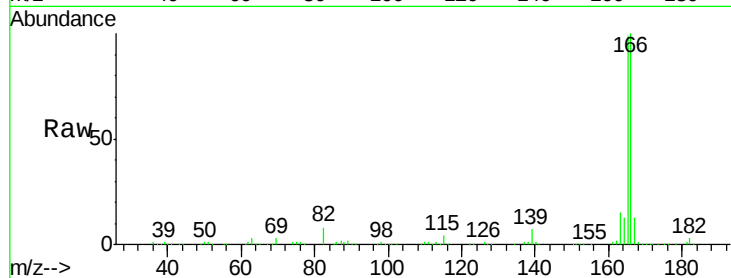
166 100

165 99.4 79.0 118.6

167 13.5 10.3 15.5

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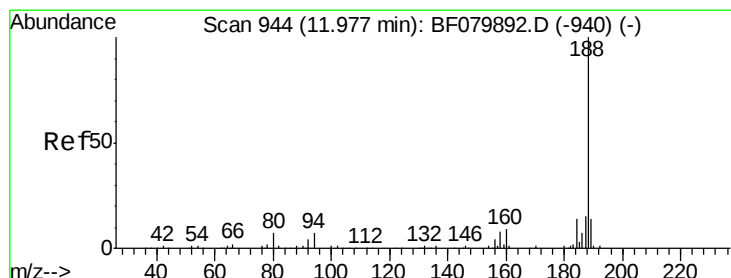
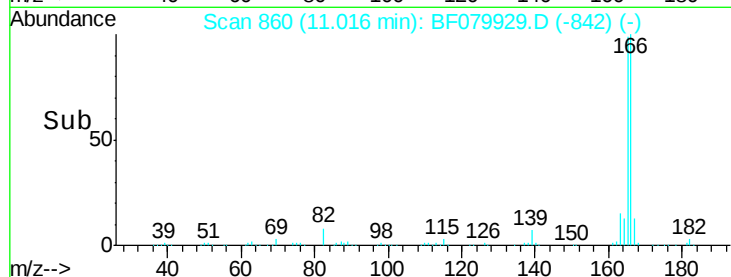
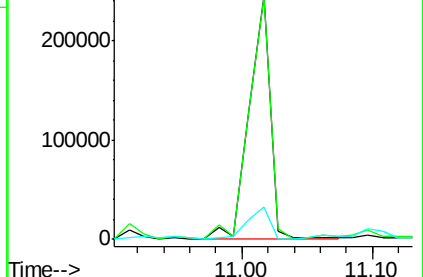
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.98 min Scan# 944

Delta R.T. 0.01 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

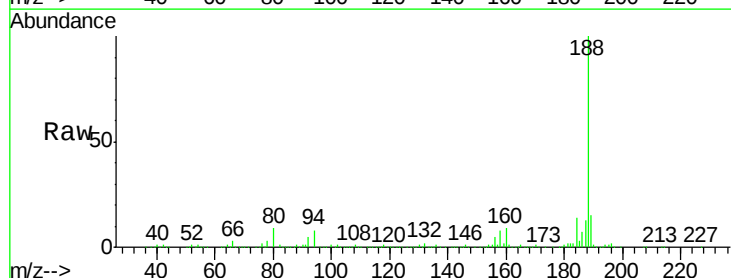
Tgt Ion:188 Resp: 281089

Ion Ratio Lower Upper

188 100

94 8.3 5.8 8.8

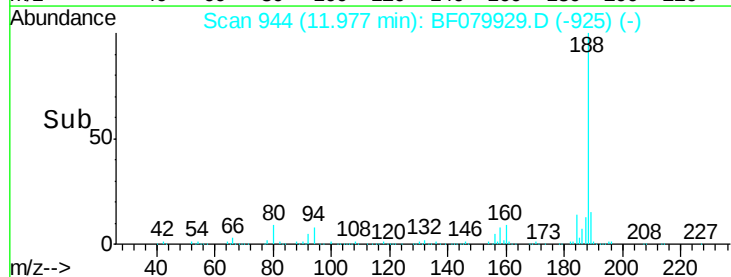
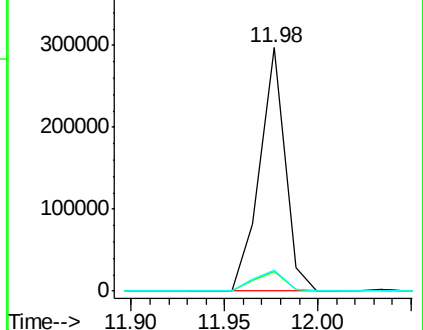
80 8.8 5.9 8.9

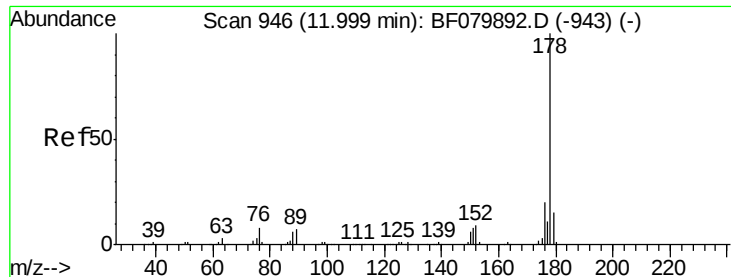


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 100.48 ng

RT: 12.00 min Scan# 946

Delta R.T. 0.01 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

ClientSampleId :

FM5

Tot Ion:178 Resp: 1683225

Ion Ratio Lower Upper

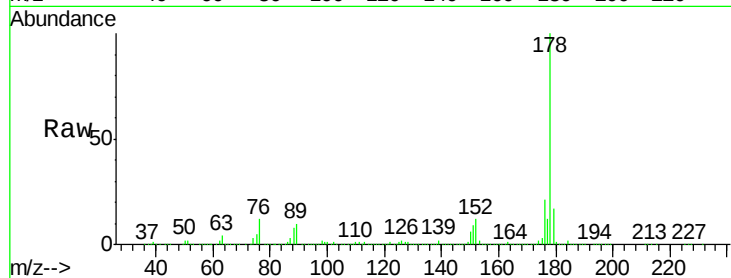
178 100

176 20.9 15.9 23.9

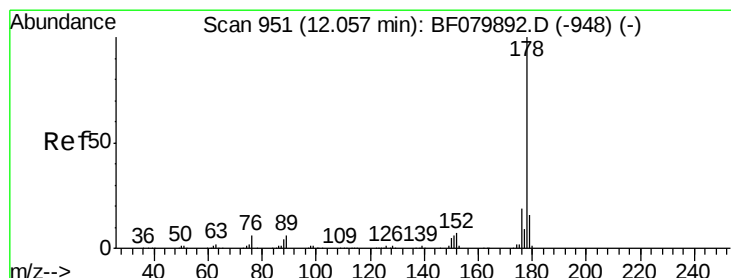
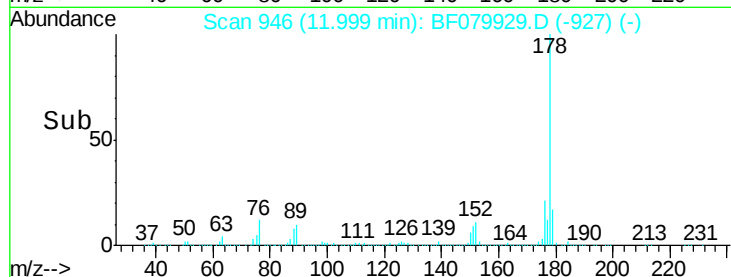
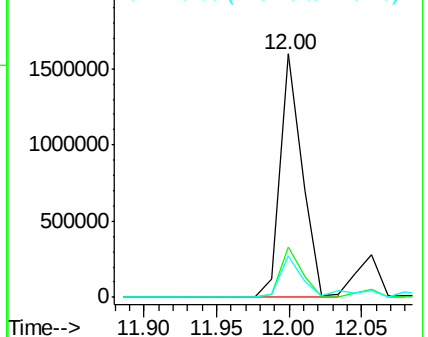
179 17.0 12.3 18.5

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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 19.04 ng

RT: 12.06 min Scan# 951

Delta R.T. 0.01 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

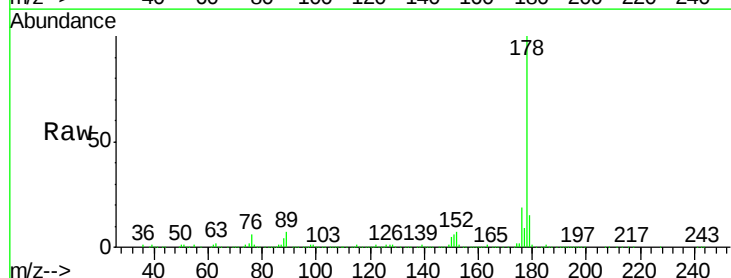
Tgt Ion:178 Resp: 308580

Ion Ratio Lower Upper

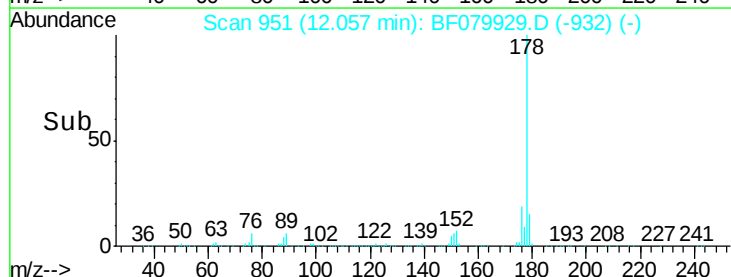
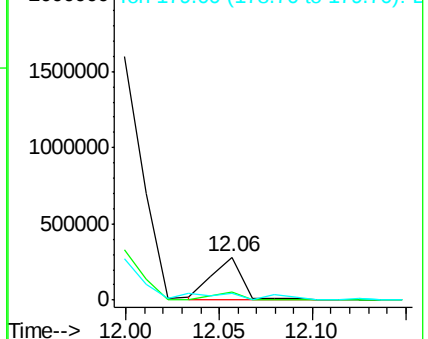
178 100

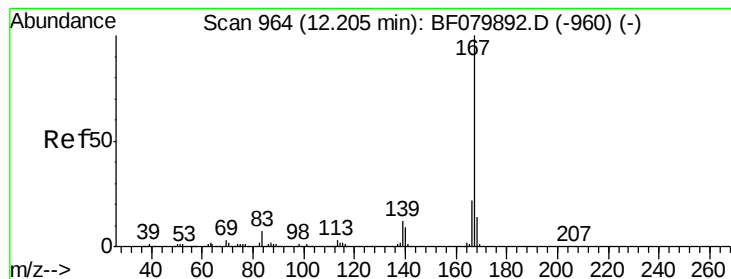
176 18.6 15.2 22.8

179 15.1 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 12.93 ng

RT: 12.21 min Scan# 964

Delta R.T. 0.01 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

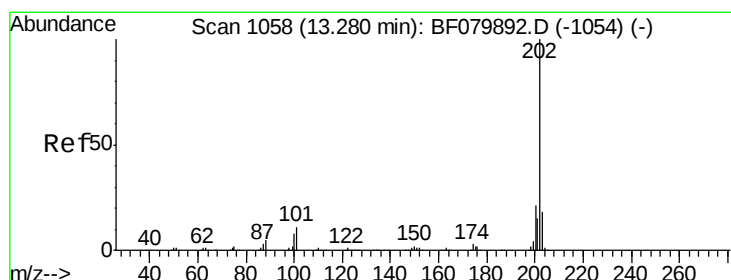
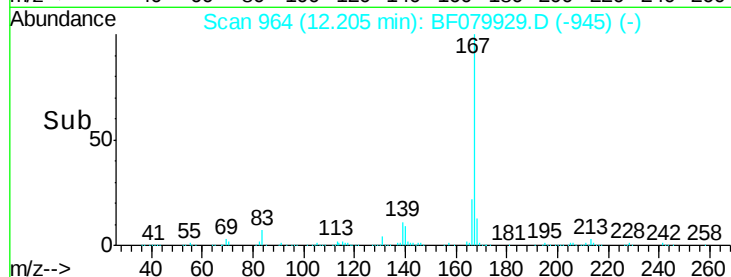
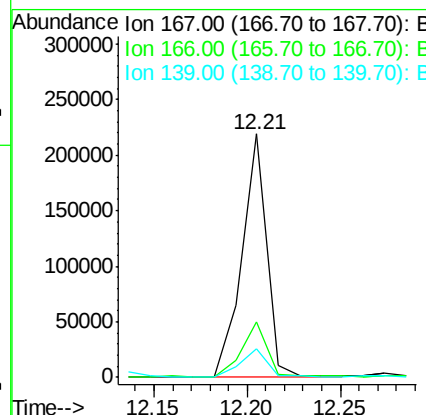
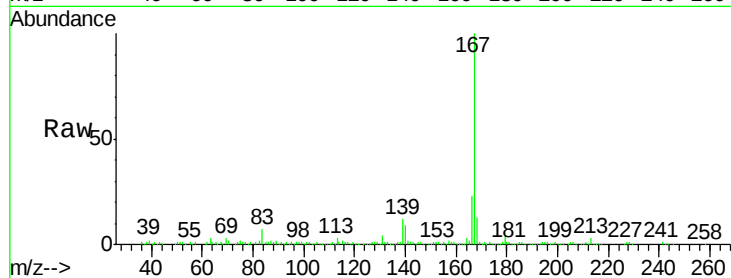
ClientSampleId :

FM5

Tot Ion:	167	Resp:	203233
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.4	26.2
139	11.8	9.5	14.3

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#74

Fluoranthene

Concen: 84.74 ng

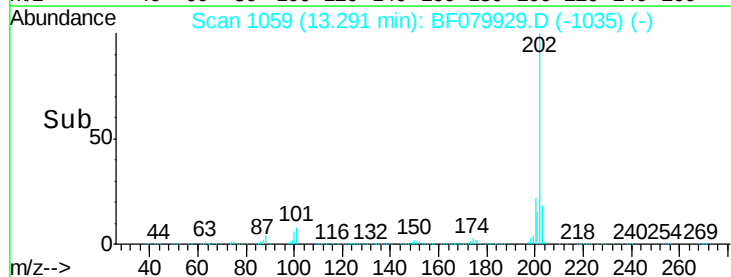
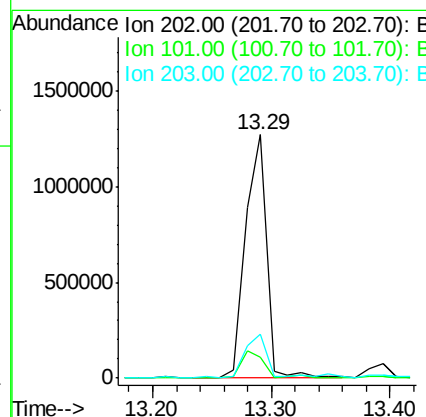
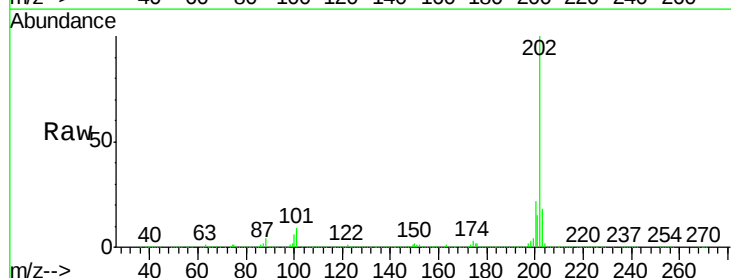
RT: 13.29 min Scan# 1059

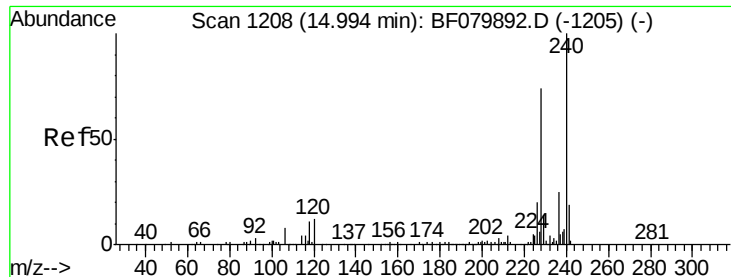
Delta R.T. 0.07 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Tgt Ion:	202	Resp:	1569348
Ion Ratio	Lower	Upper	
202	100		
101	8.6	0.0	30.7
203	18.1	0.0	38.0





#75

Chrysene-d12

Concen: 20.00 ng/mL

RT: 15.01 min Scan# 1209

Delta R.T. 0.16 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

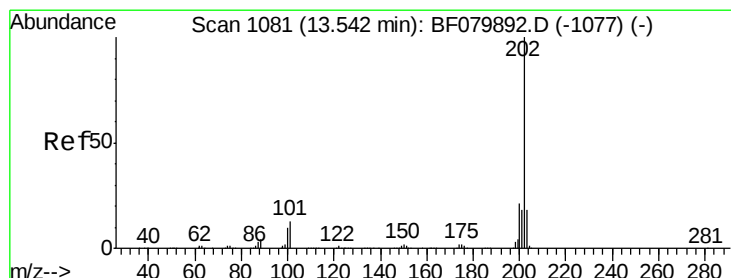
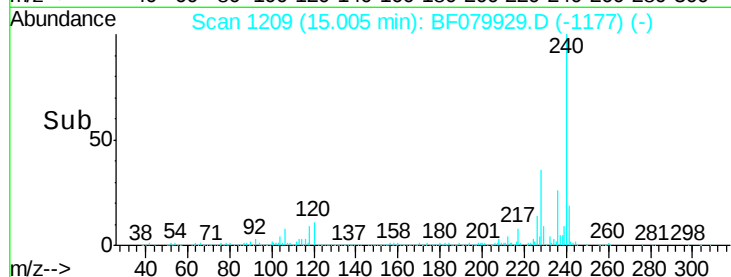
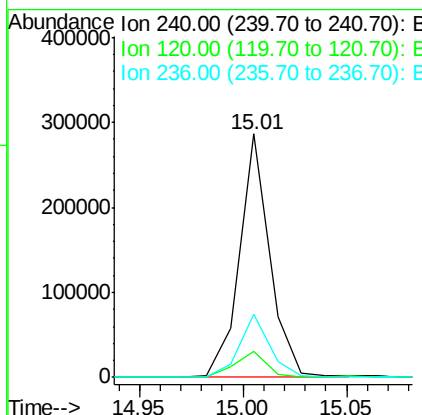
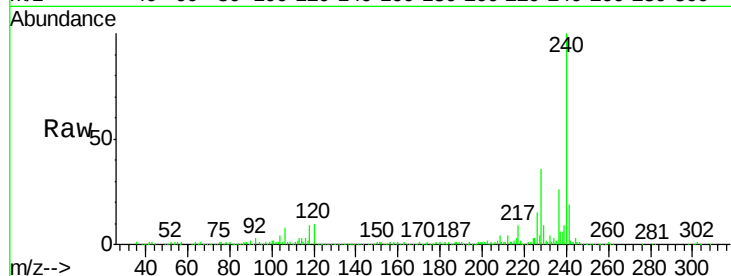
ClientSampleId :

FM5

Tot Ion:	240	Resp:	294053
Ion Ratio	Lower	Upper	
240	100		
120	10.5	9.4	14.2
236	26.1	19.6	29.4

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#77

Pyrene

Concen: 71.85 ng/mL

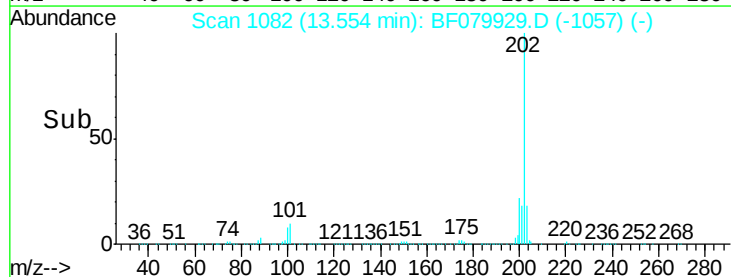
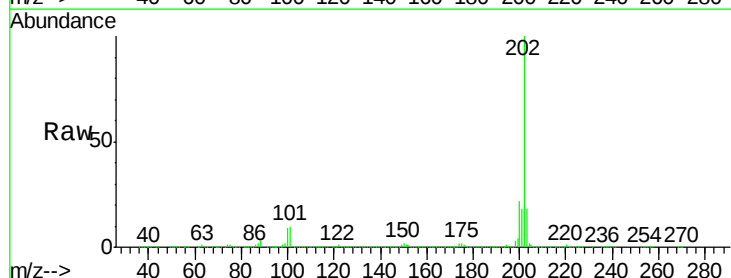
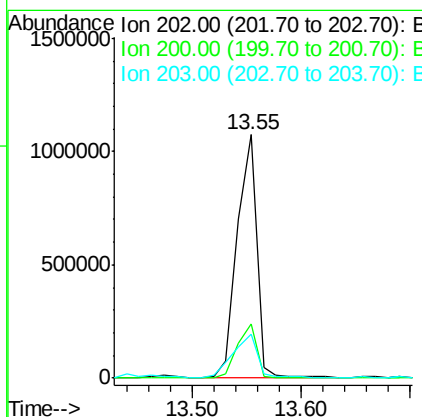
RT: 13.55 min Scan# 1082

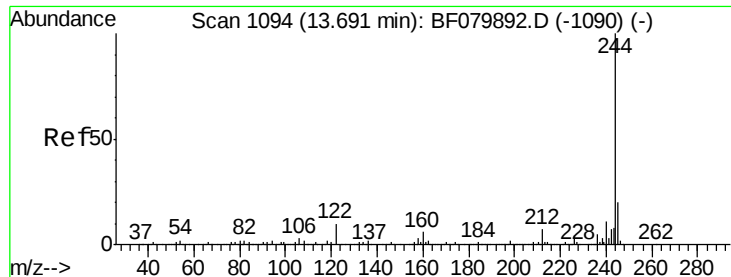
Delta R.T. 0.08 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Tgt Ion:	202	Resp:	1327005
Ion Ratio	Lower	Upper	
202	100		
200	22.0	16.8	25.2
203	18.3	14.4	21.6





#78

Terphenyl-d14

Concen: 22.47 ng

RT: 13.69 min Scan# 1094

Delta R.T. 0.08 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Instrument :

BNA_F

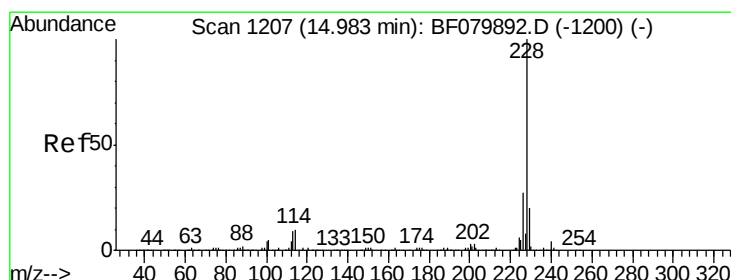
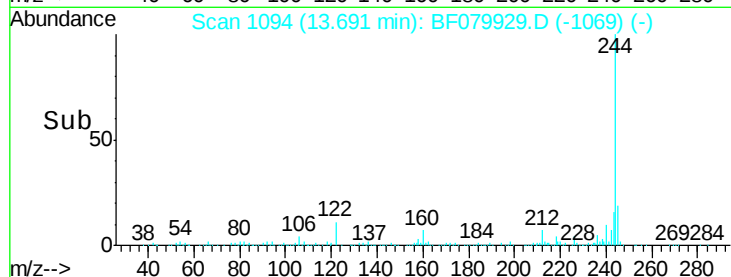
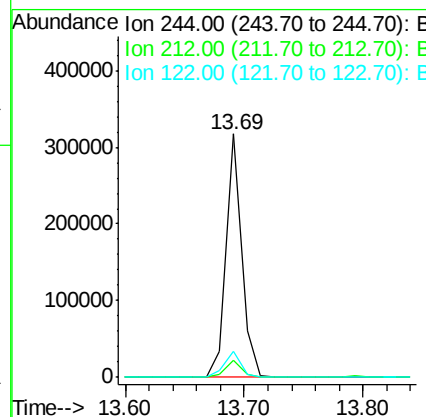
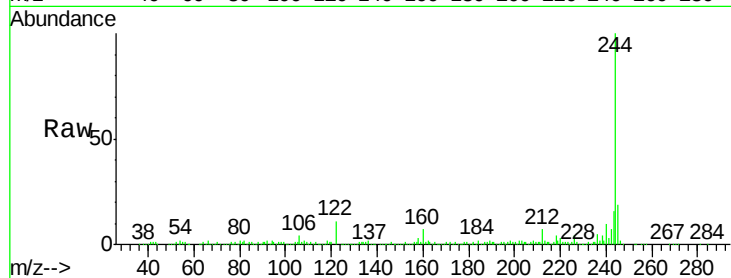
ClientSampleId :

FM5

Tot Ion:	244	Resp:	286570
Ion Ratio		Lower	Upper
244	100		
212	6.9	5.4	8.2
122	10.9	7.8	11.8

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#80

Benzo(a)anthracene

Concen: 35.66 ng

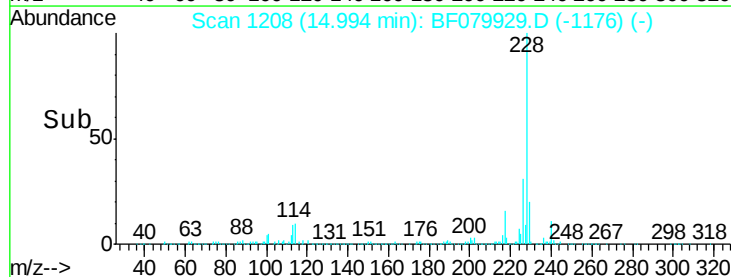
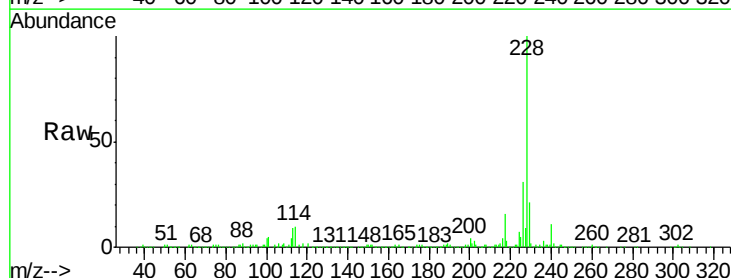
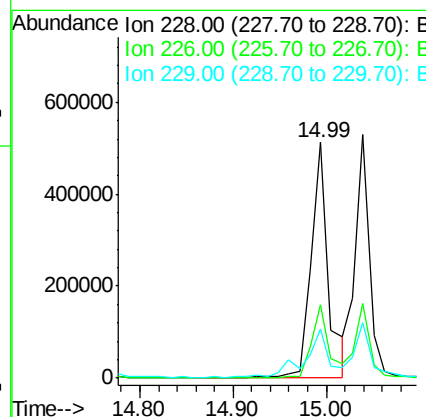
RT: 14.99 min Scan# 1208

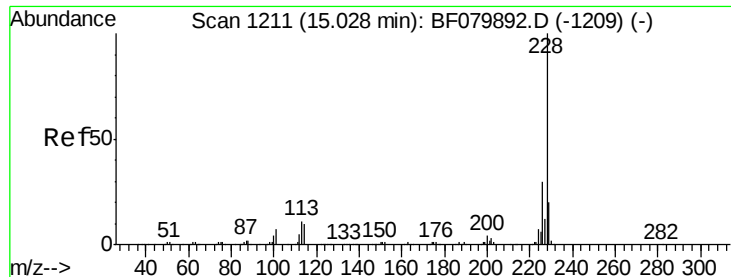
Delta R.T. 0.16 min

Lab File: BF079929.D

Acq: 12 Jun 2015 9:11

Tgt Ion:	228	Resp:	665947
Ion Ratio		Lower	Upper
228	100		
226	31.0	21.8	32.8
229	20.8	15.9	23.9





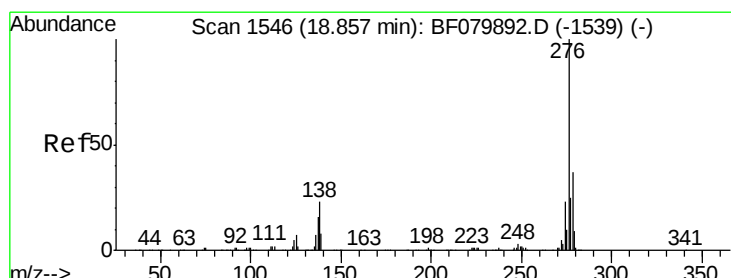
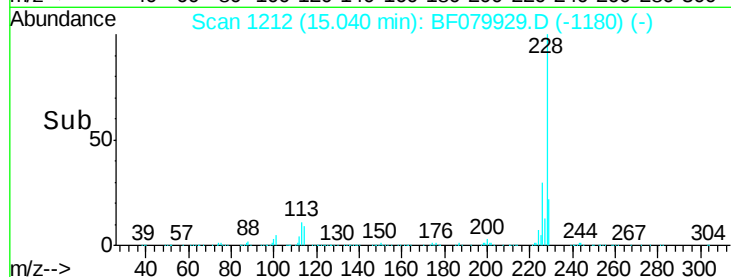
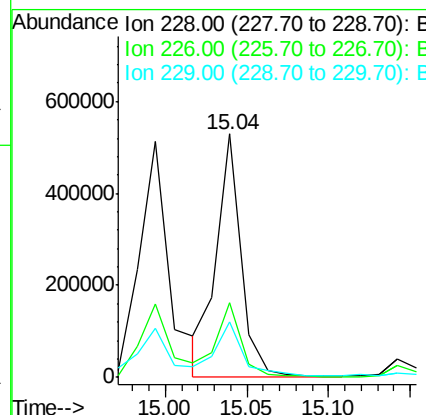
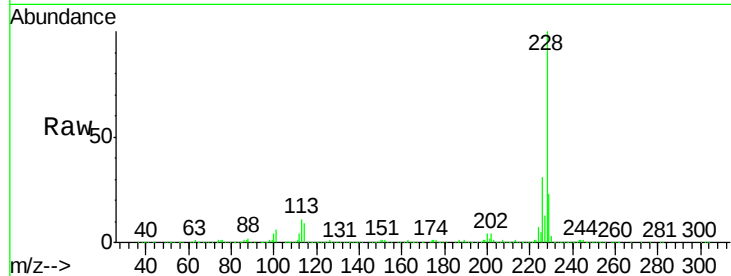
#82
Chrysene
Concen: 33.41 ng
RT: 15.04 min Scan# 1212
Delta R.T. 0.16 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Instrument :
BNA_F
ClientSampleId :
FM5

Tot Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.7	23.9	35.9
229	22.7	16.1	24.1

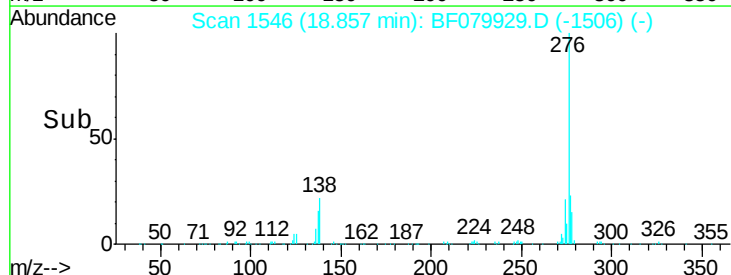
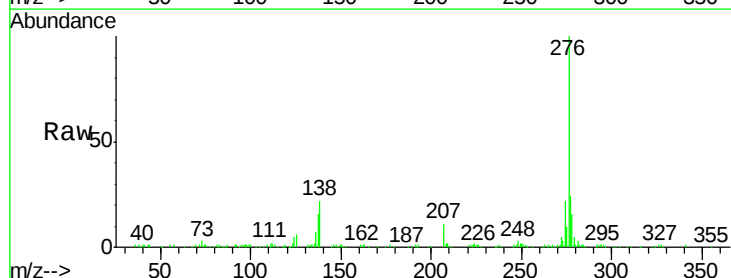
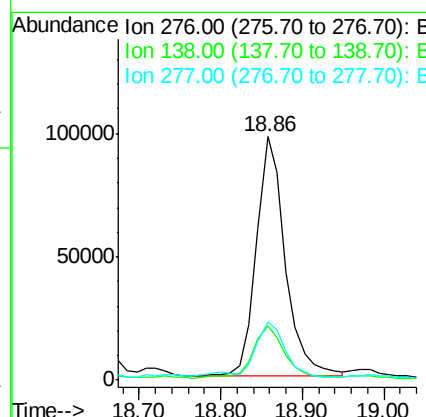
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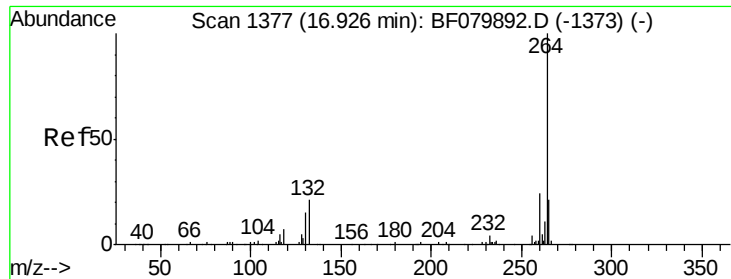
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#85
Indeno(1,2,3-cd)pyrene
Concen: 12.24 ng
RT: 18.86 min Scan# 1546
Delta R.T. 0.25 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	23.7	21.0	31.4
277	24.4	19.9	29.9





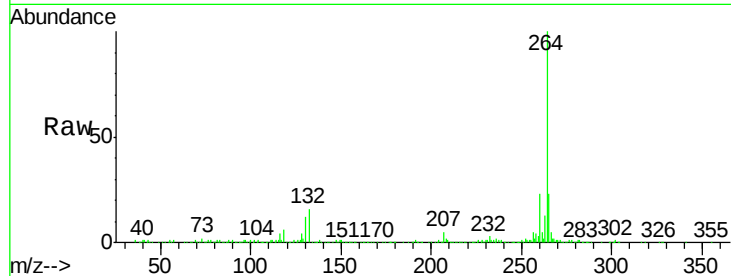
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.95 min Scan# 1379
Delta R.T. 0.24 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Instrument :
BNA_F
ClientSampleId :
FM5

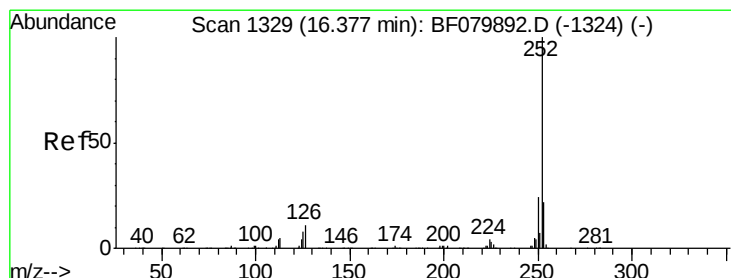
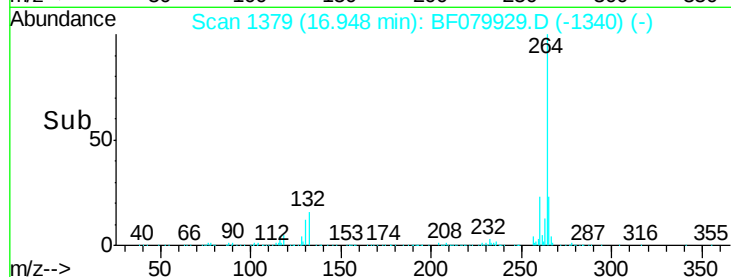
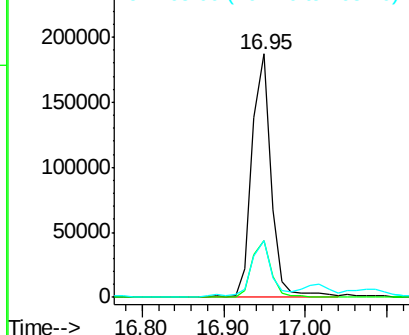
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.3	28.9
265	23.4	17.0	25.6

Manual Integrations
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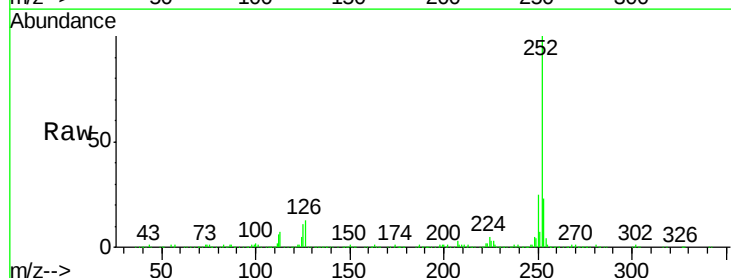


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

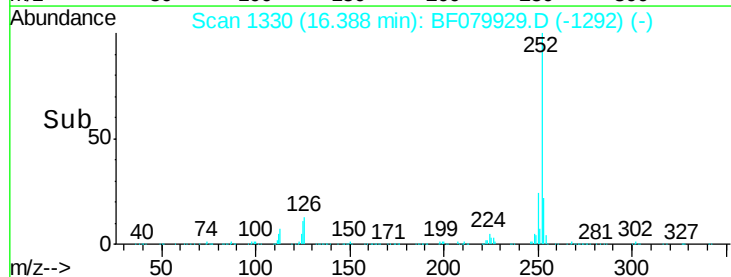
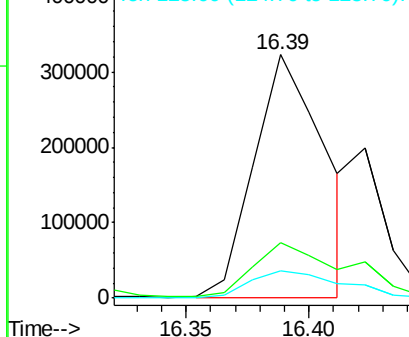


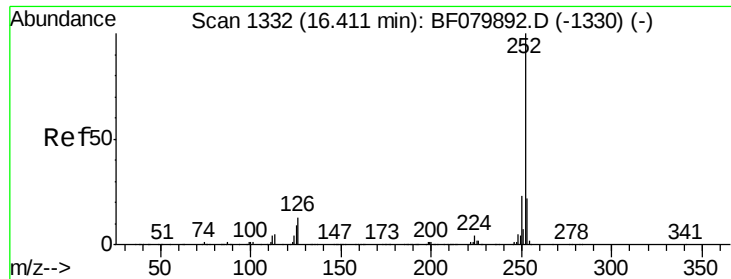
#87
Benzo(b)fluoranthene
Concen: 33.86 ng m
RT: 16.39 min Scan# 1330
Delta R.T. 0.23 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	11.2	6.5	9.7#



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





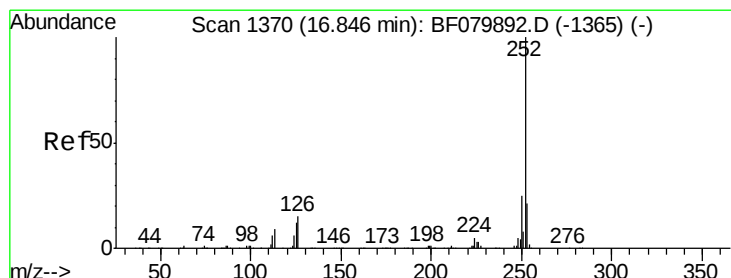
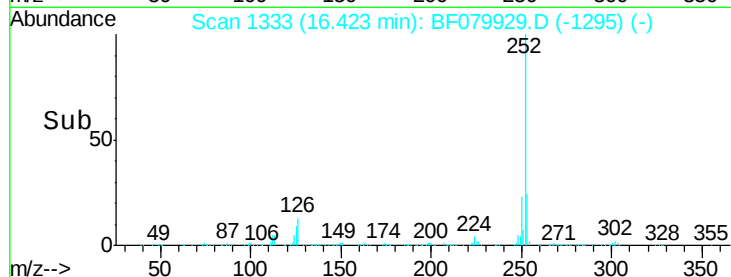
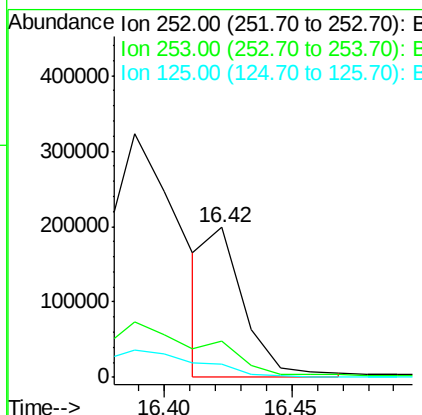
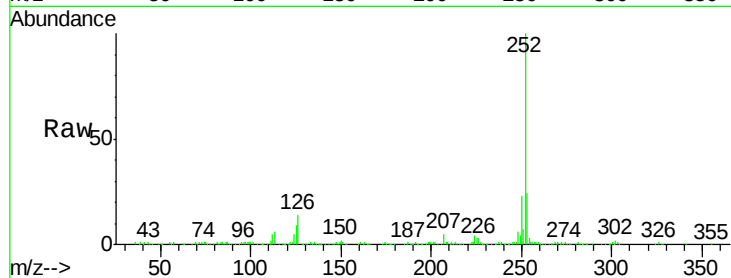
#88
Benzo(k)fluoranthene
Concen: 10.20 ng/mL
RT: 16.42 min Scan# 1333
Delta R.T. 0.23 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Instrument :
BNA_F
ClientSampled :
FM5

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.4	26.2
125	9.2	7.4	11.0

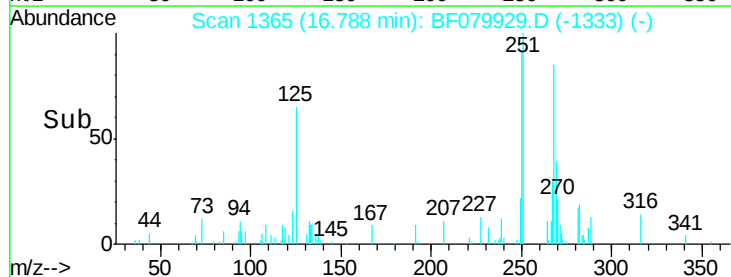
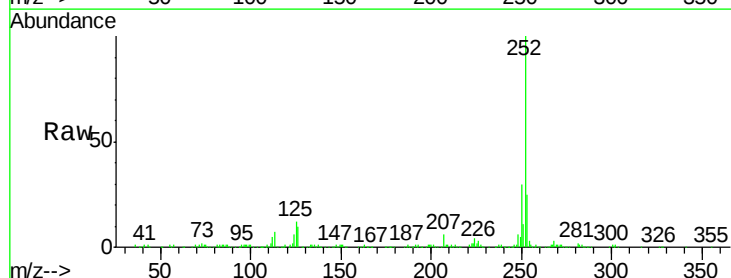
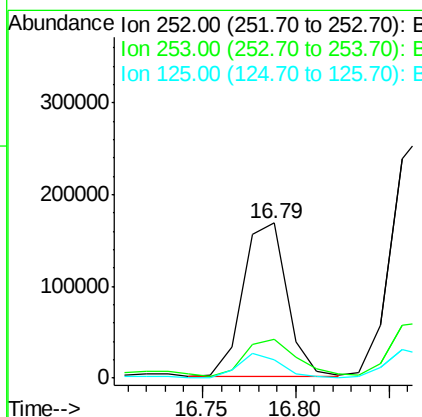
Manual Integrations
APPROVED

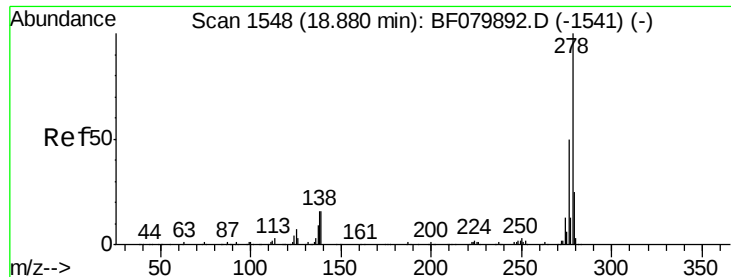
apatel
6/13/2015 8:45:02 AM



#89
Benzo(a)pyrene
Concen: 15.14 ng/mL
RT: 16.79 min Scan# 1365
Delta R.T. 0.16 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.3	17.0	25.6
125	12.2	9.7	14.5





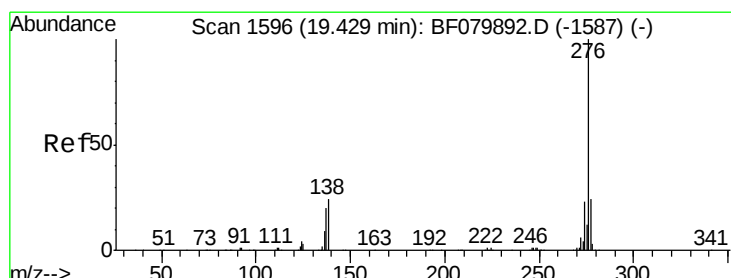
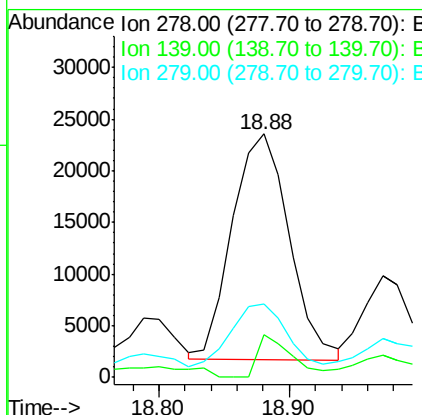
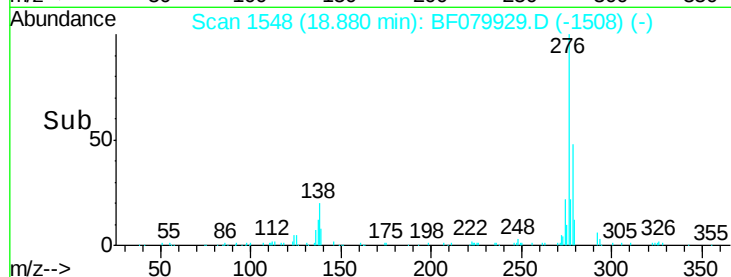
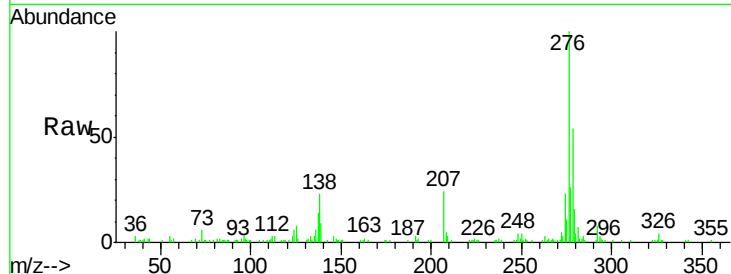
#90
Dibenzo(a,h)anthracene
Concen: 3.77 ng
RT: 18.88 min Scan# 1548
Delta R.T. 0.25 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Instrument :
BNA_F
ClientSampleId :
FM5

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.6	12.8	19.2
279	30.3	19.7	29.5#

Manual Integrations
APPROVED

apatel
6/13/2015 8:45:02 AM



#91
Benzo(g,h,i)perylene
Concen: 12.01 ng
RT: 19.44 min Scan# 1597
Delta R.T. 0.26 min
Lab File: BF079929.D
Acq: 12 Jun 2015 9:11

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.4	29.2
138	23.7	19.1	28.7

