

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050715\
 Data File : BF079009.D
 Acq On : 7 May 2015 21:32
 Operator : TP/IZ
 Sample : G2116-12 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-44S

Manual Integrations
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Quant Time: May 08 02:00:43 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 08 00:46:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	54844	20.00	ng	0.01
21) Naphthalene-d8	8.92	136	240130	20.00	ng	0.01
38) Acenaphthene-d10	11.10	164	125855	20.00	ng	0.00
63) Phenanthrene-d10	12.95	188	252430	20.00	ng	0.01
75) Chrysene-d12	16.25	240	259986	20.00	ng	-0.02
86) Perylene-d12	17.99	264	288445	20.00	ng	-0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.64	112	85389	26.80	ng	0.01
7) Phenol-d6	6.90	99	116813	27.74	ng	0.01
23) Nitrobenzene-d5	8.03	82	61135	14.63	ng	0.00
41) 2,4,6-Tribromophenol	12.08	330	34532	25.36	ng	0.00
44) 2-Fluorobiphenyl	10.26	172	143073	15.84	ng	0.00
78) Terphenyl-d14	14.94	244	168345	15.50	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.95	128	55758	4.87	ng	99
37) 2-Methylnaphthalene	9.80	142	19377	2.44	ng	98
48) Acenaphthylene	10.92	152	52595	4.10	ng	99
51) Acenaphthene	11.13	154	65211	8.53	ng	98
54) Dibenzofuran	11.35	168	80118	7.26	ng	96
57) Fluorene	11.78	166	81833	9.03	ng	99
70) Phenanthrene	12.98	178	1290273	91.37	ng	99
71) Anthracene	13.04	178	352725	25.46	ng	99
72) Carbazole	13.25	167	108011	8.18	ng	99
74) Fluoranthene	14.46	202	1682202	114.32	ng	97
77) Pyrene	14.74	202	1490662	99.50	ng	97
80) Benzo(a)anthracene	16.23	228	839049	58.93	ng	95
82) Chrysene	16.27	228	724266	52.89	ng	97
83) Bis(2-ethylhexyl)phthalate	16.27	149	23579	2.38	ng	# 95
85) Indeno(1,2,3-cd)pyrene	19.49	276	388035m	22.24	ng	
87) Benzo(b)fluoranthene	17.53	252	927397	58.74	ng	97
88) Benzo(k)fluoranthene	17.57	252	272039m	17.80	ng	
89) Benzo(a)pyrene	17.92	252	672237	46.24	ng	# 94
90) Dibenzo(a,h)anthracene	19.51	278	94082	6.09	ng	# 89
91) Benzo(a,h,i)perylene	19.94	276	384569	24.83	ng	100

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

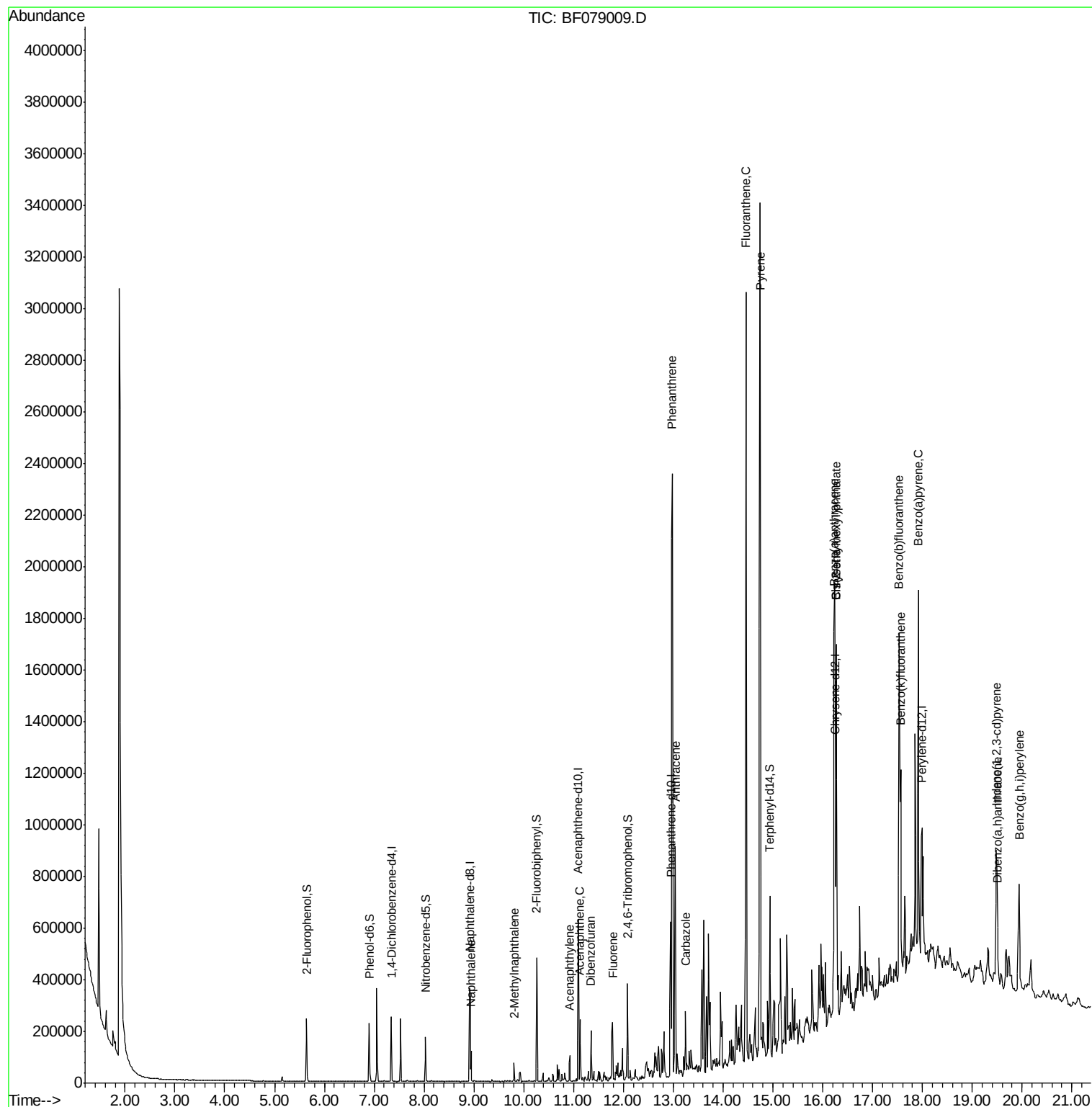
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050715\
Data File : BF079009.D
Acq On : 7 May 2015 21:32
Operator : TP/IZ
Sample : G2116-12 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

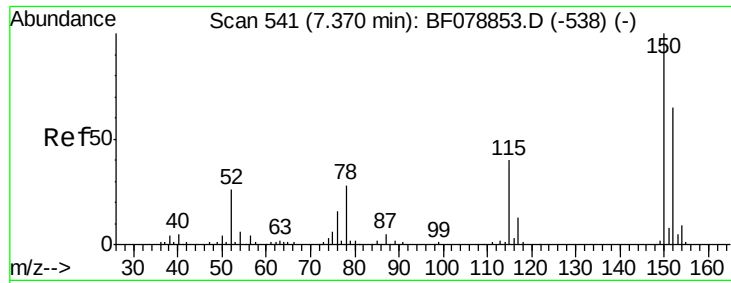
Instrument :
BNA_F
ClientSampled :
SB-44S

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
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#1

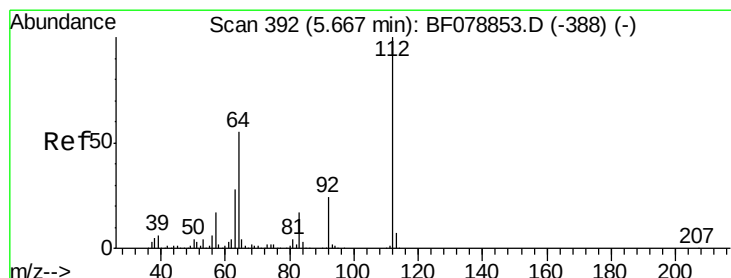
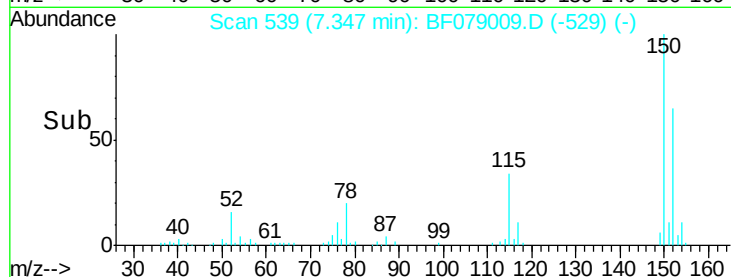
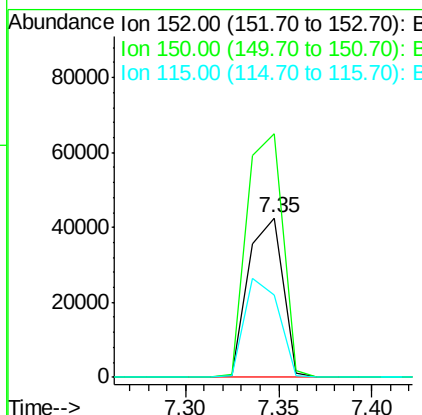
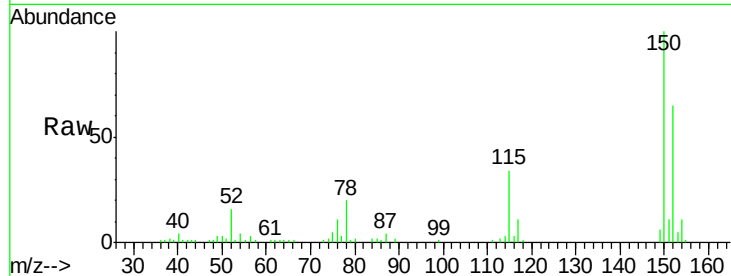
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.35 min Scan# 539
Delta R.T. 0.01 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Instrument :
BNA_F
ClientSampleId :
SB-44S

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.7	122.0	183.0
115	52.0	46.3	69.5

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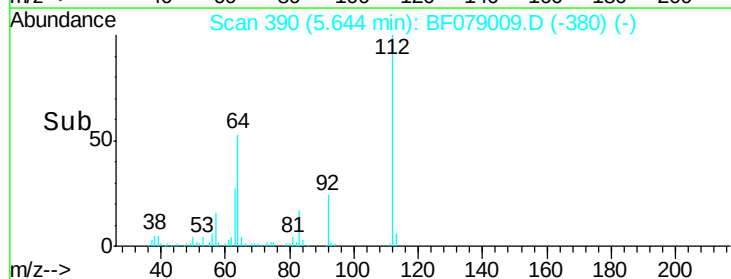
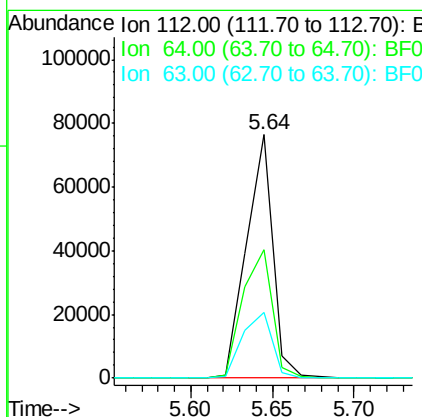
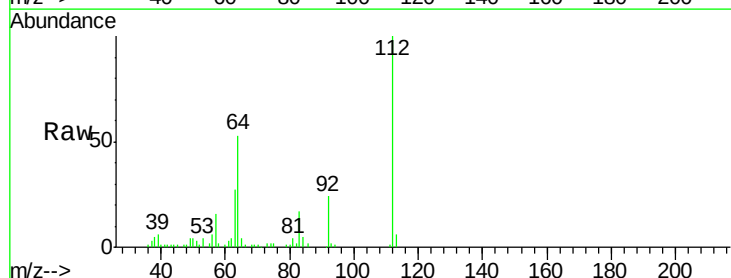
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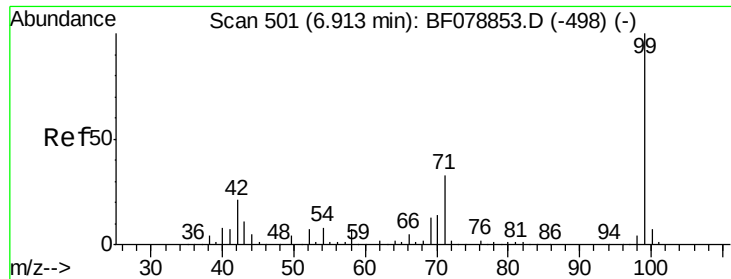


#5

2-Fluorophenol
Concen: 26.80 ng
RT: 5.64 min Scan# 390
Delta R.T. 0.01 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.0	53.5	80.3#
63	26.9	27.5	41.3#





#7

Phenol-d6

Concen: 27.74 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.01 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Instrument :

BNA_F

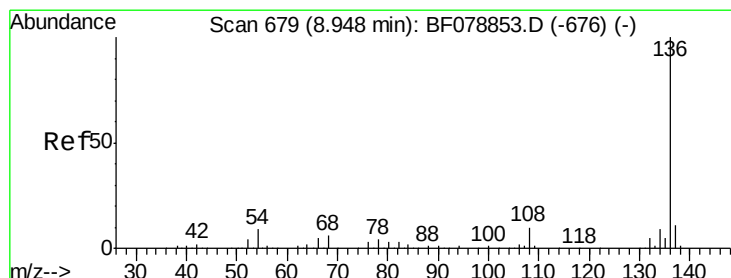
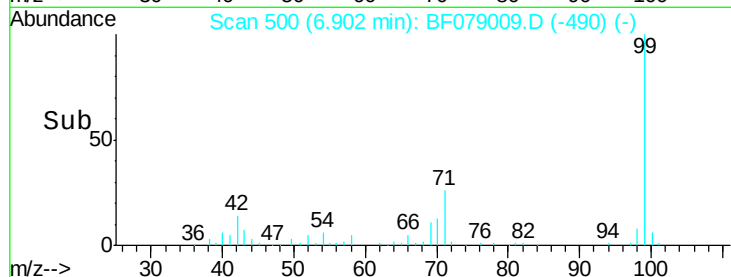
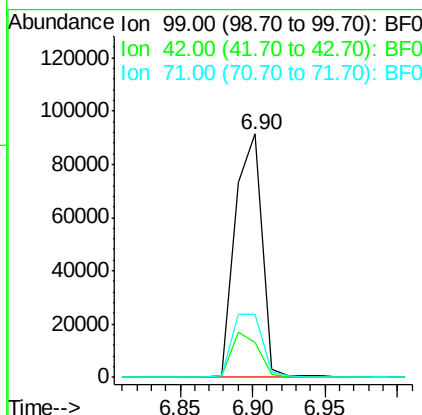
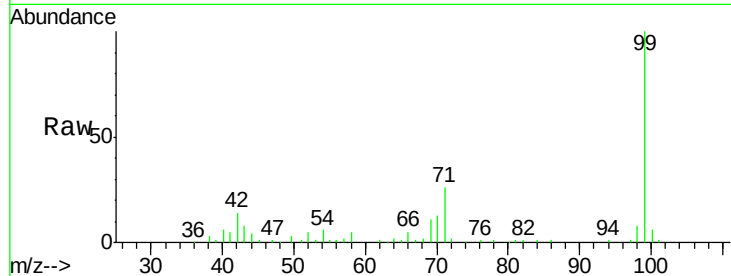
ClientSampleId :

SB-44S

Tot Ion:	99	Resp:	116813
Ion Ratio	Lower	Upper	
99	100		
42	14.1	12.8	19.2
71	25.9	23.4	35.2

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#21

Naphthalene-d8

Concen: 20.00 ng

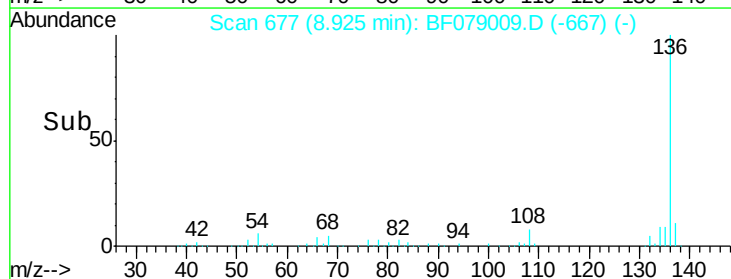
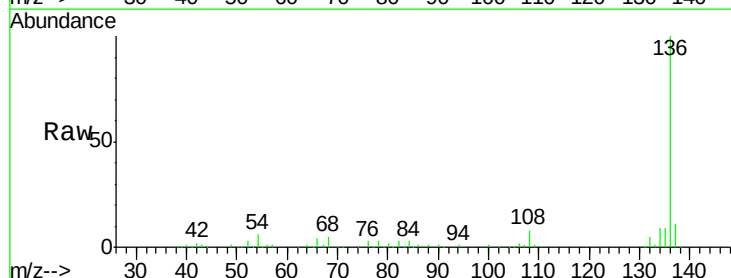
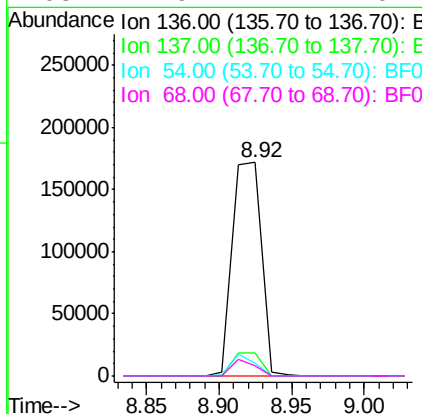
RT: 8.92 min Scan# 677

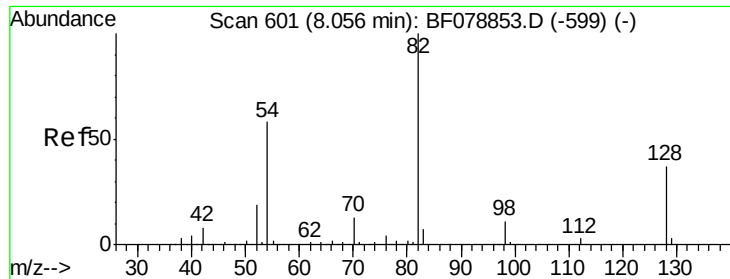
Delta R.T. 0.01 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Tgt Ion:	136	Resp:	240130
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.7	13.1
54	6.0	5.8	8.8
68	4.9	4.2	6.4





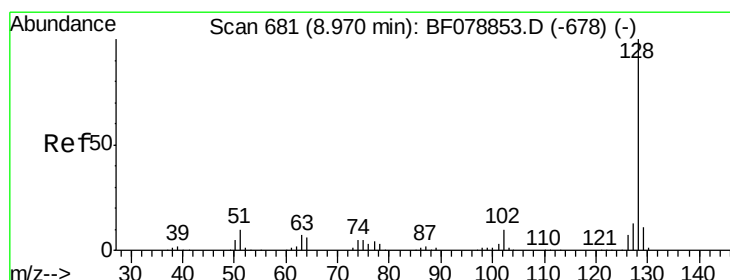
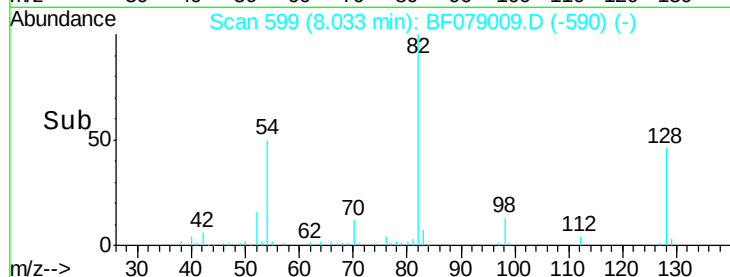
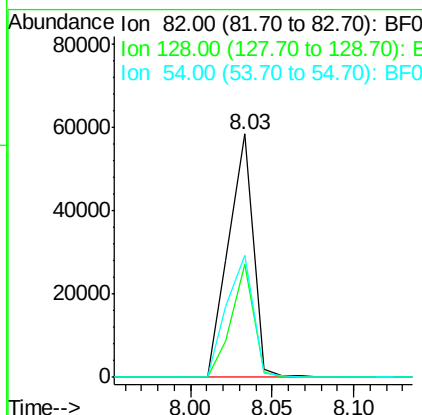
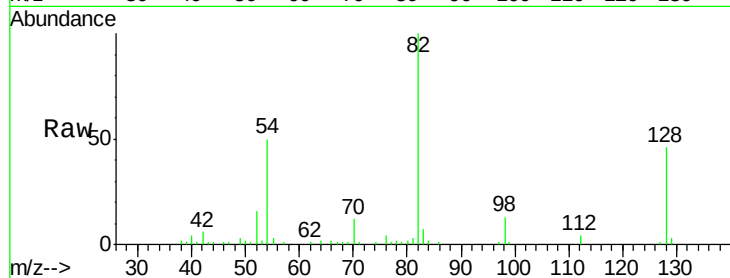
#23
 Nitrobenzene-d5
 Concen: 14.63 ng
 RT: 8.03 min Scan# 599
 Delta R.T. 0.00 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Instrument :
 BNA_F
 ClientSampled :
 SB-44S

Tot Ion	Ratio	Resp	Lower	Upper
82	100	61135		
128	46.4	30.0	45.0#	
54	50.2	46.4	69.6	

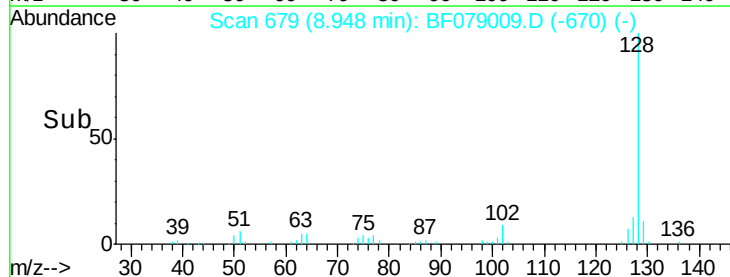
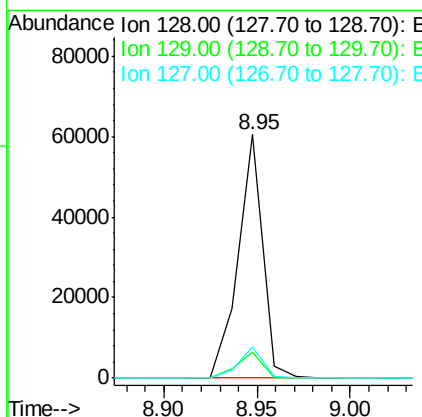
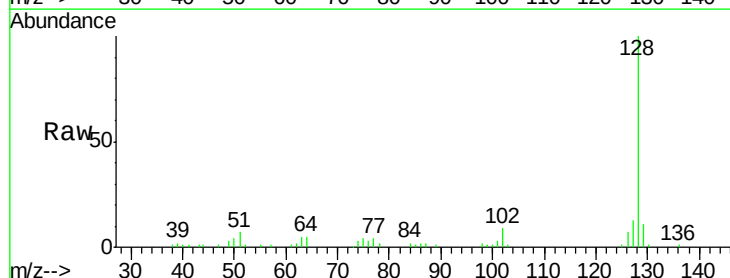
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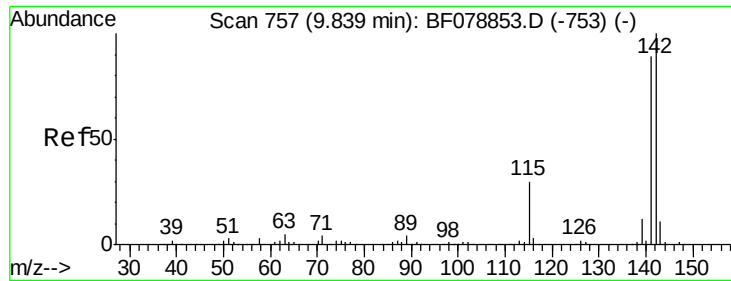
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#31
 Naphthalene
 Concen: 4.87 ng
 RT: 8.95 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: BF079009.D
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Tgt Ion	Ratio	Resp	Lower	Upper
128	100	55758		
129	10.9	9.3	13.9	
127	12.9	10.7	16.1	





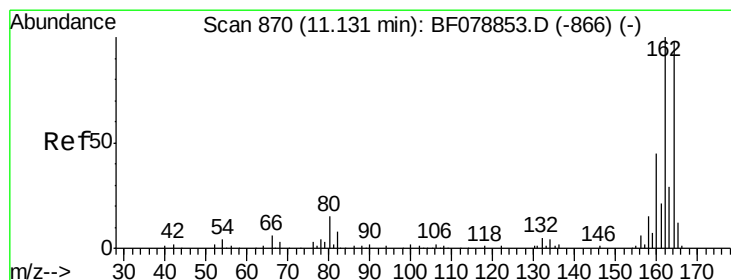
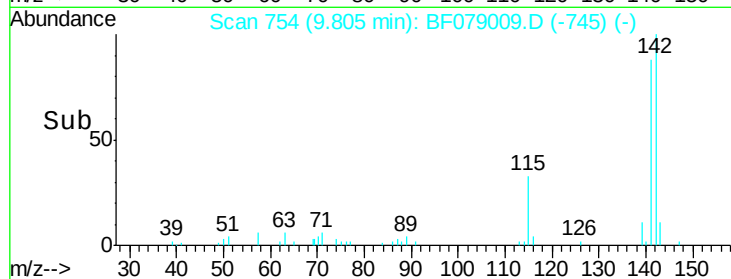
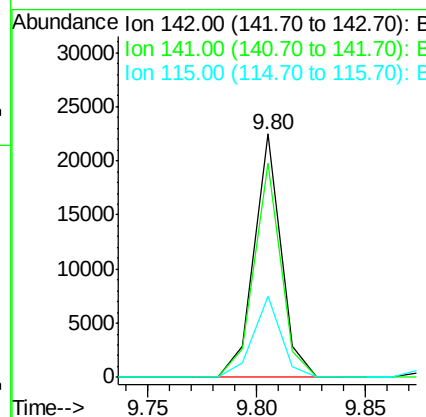
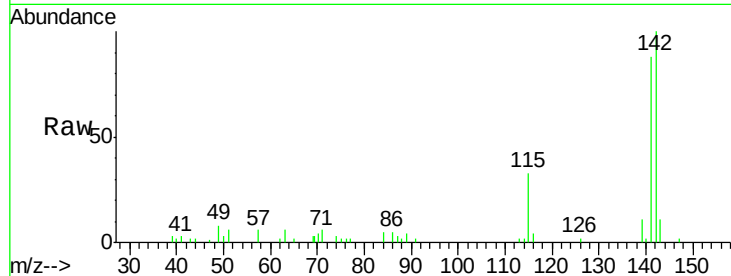
#37
2-Methylnaphthalene
Concen: 2.44 ng
RT: 9.80 min Scan# 754
Delta R.T. 0.00 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Instrument :
BNA_F
ClientSampleId :
SB-44S

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.9	106.3
115	33.2	28.5	42.7

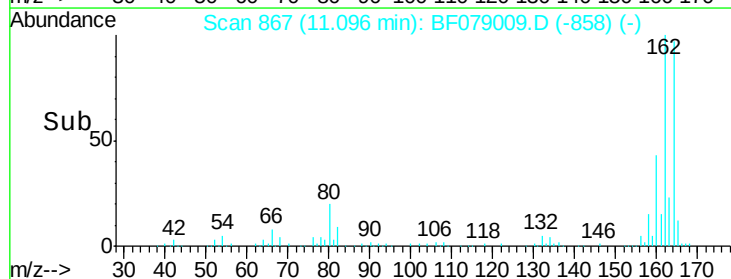
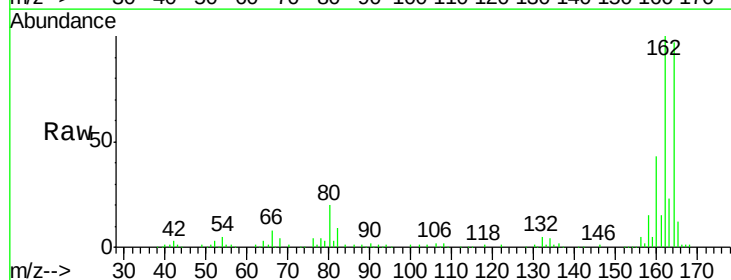
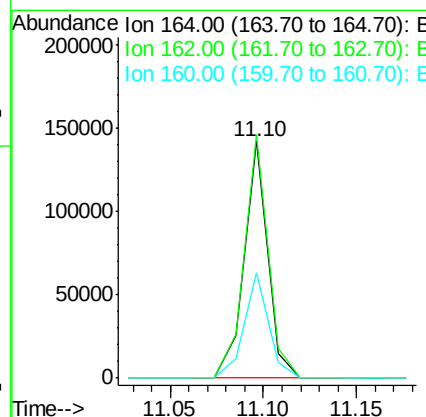
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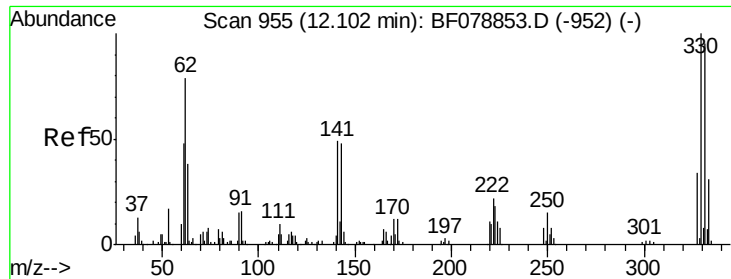
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 11.10 min Scan# 867
Delta R.T. 0.00 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.7	124.1
160	44.5	35.8	53.8





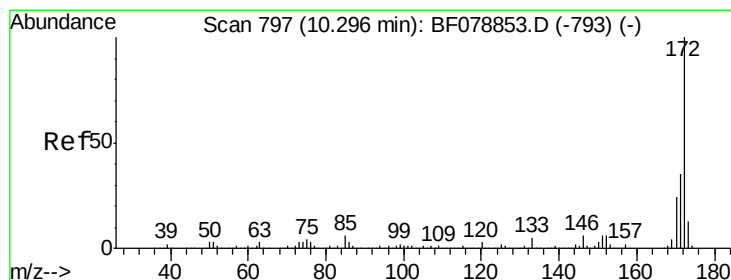
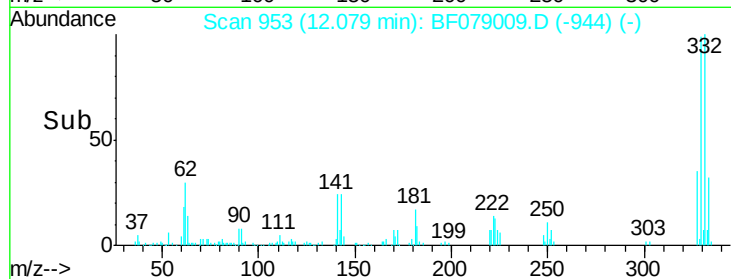
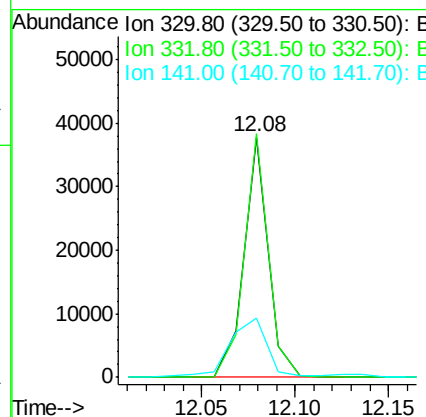
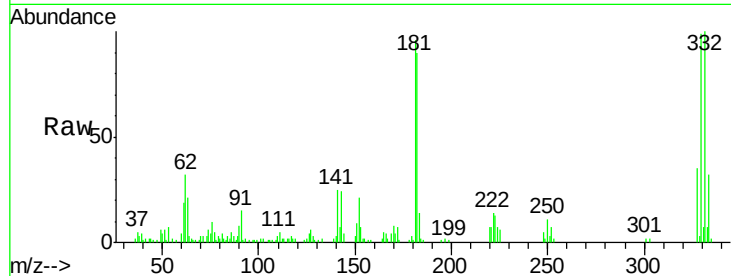
#41
 2,4,6-Tribromophenol
 Concen: 25.36 ng
 RT: 12.08 min Scan# 953
 Delta R.T. 0.00 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Instrument :
 BNA_F
 ClientSampled :
 SB-44S

Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	99.6	0.0	0.0#
141	39.1	0.0	0.0#

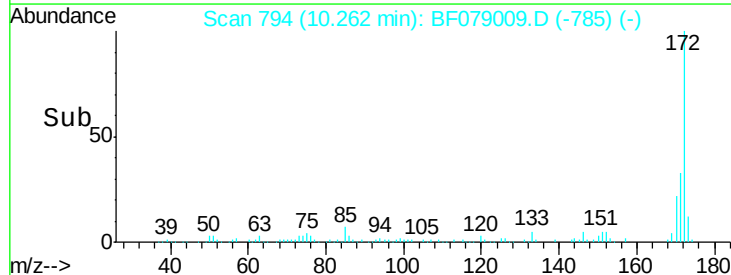
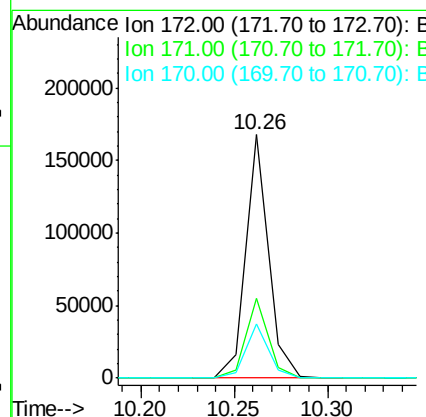
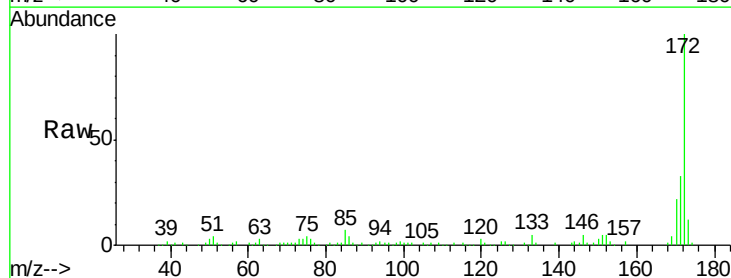
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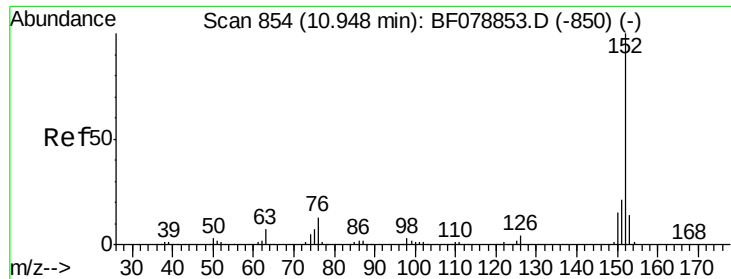
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#44
 2-Fluorobiphenyl
 Concen: 15.84 ng
 RT: 10.26 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	32.9	27.9	41.9
170	22.2	19.4	29.0





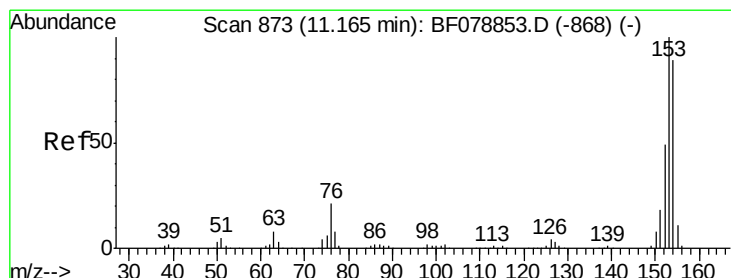
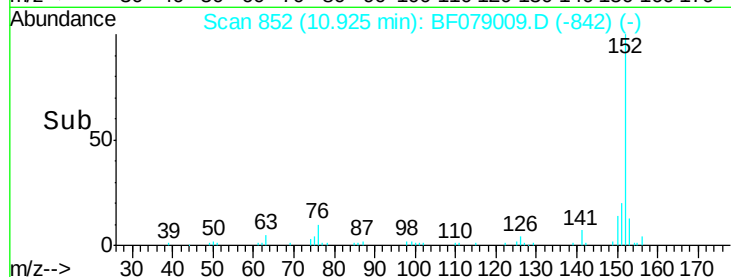
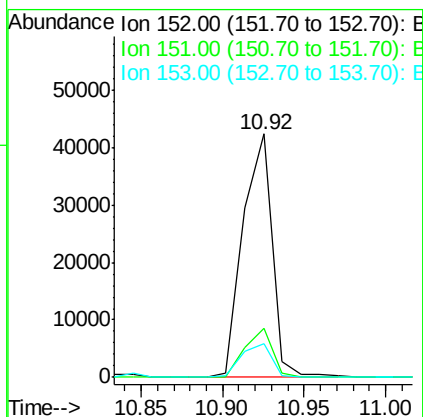
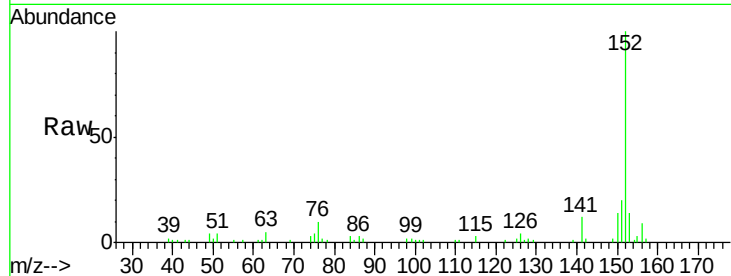
#48
Acenaphthylene
Concen: 4.10 ng
RT: 10.92 min Scan# 852
Delta R.T. 0.01 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Instrument :
BNA_F
ClientSampleId :
SB-44S

Tot Ion:	152	Resp:	52595
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.2	24.4
153	14.1	10.9	16.3

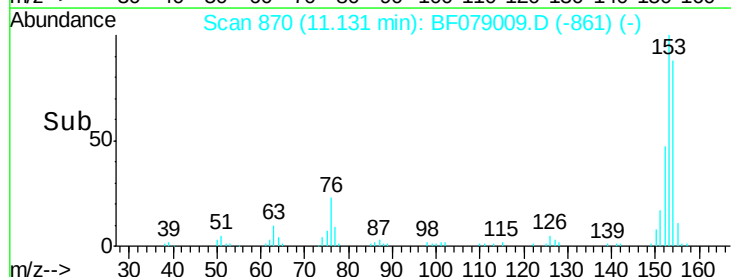
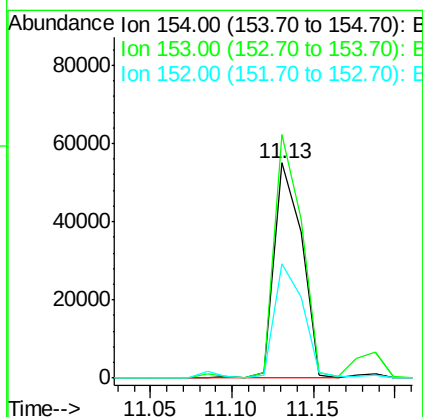
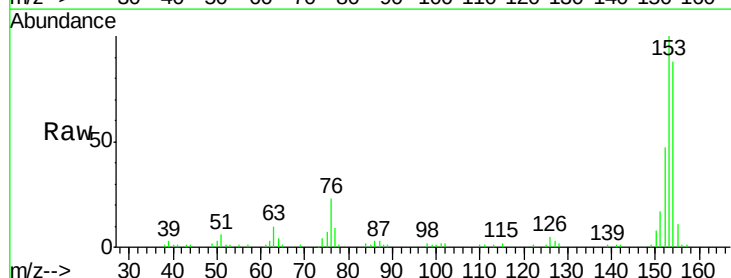
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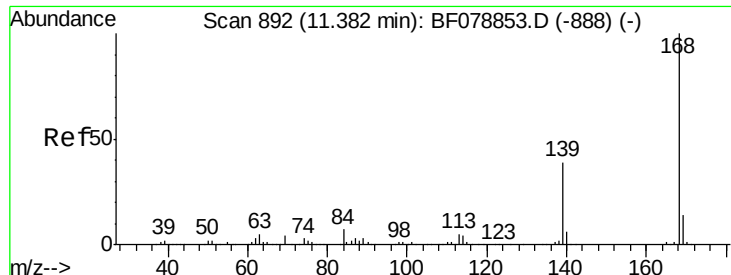
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#51
Acenaphthene
Concen: 8.53 ng
RT: 11.13 min Scan# 870
Delta R.T. 0.00 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Tgt Ion:	154	Resp:	65211
Ion Ratio	Lower	Upper	
154	100		
153	113.2	91.5	137.3
152	52.9	44.2	66.4





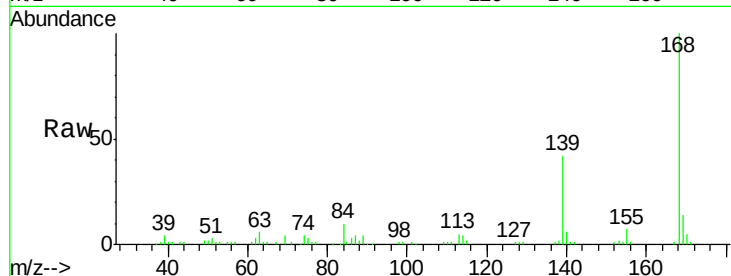
#54
Dibenzenofuran
Concen: 7.26 ng
RT: 11.35 min Scan# 889
Delta R.T. 0.00 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Instrument :
BNA_F
ClientSampled :
SB-44S

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.5	31.0	46.4
169	14.1	10.6	16.0

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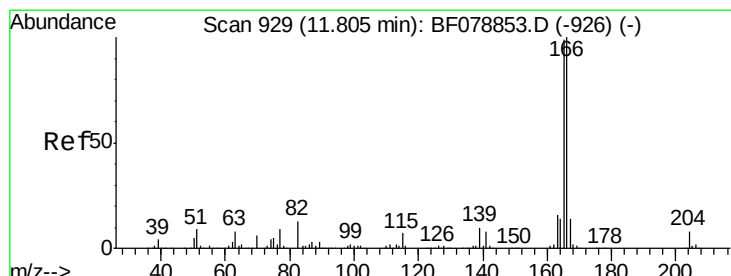
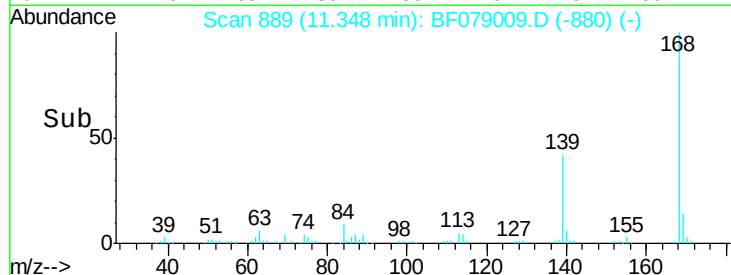
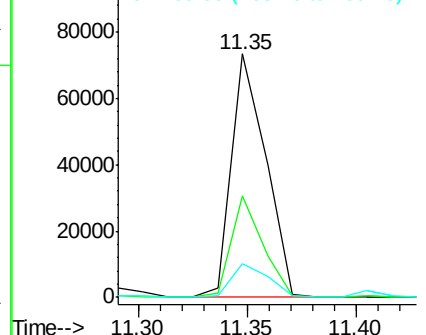


Abundance

Ion 168.00 (167.70 to 168.70): E

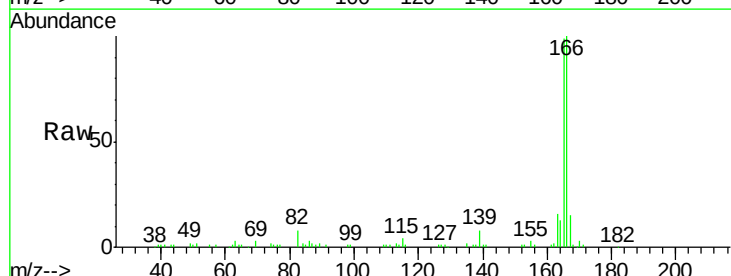
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57
Fluorene
Concen: 9.03 ng
RT: 11.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	78.5	117.7
167	14.6	11.0	16.6

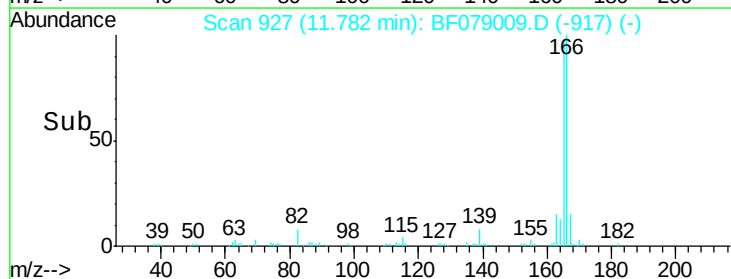
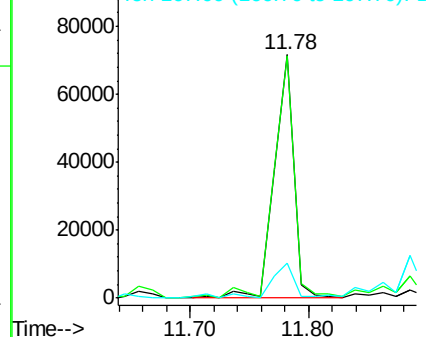


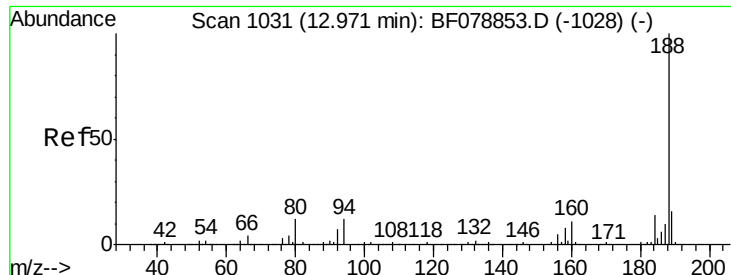
Abundance

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





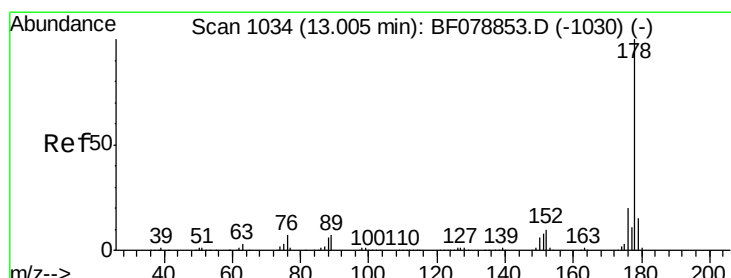
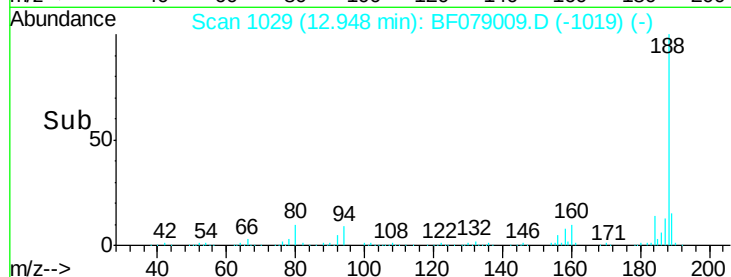
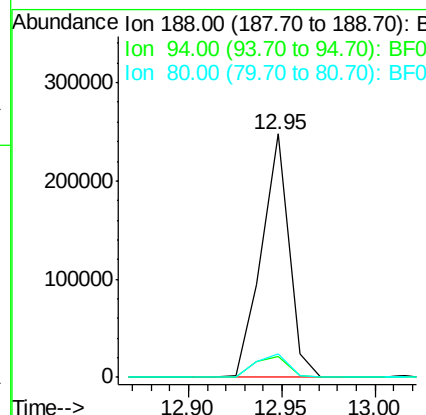
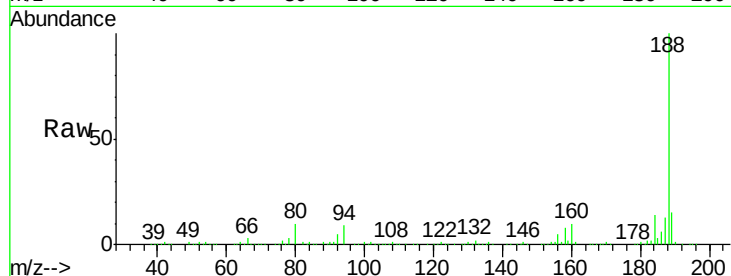
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.95 min Scan# 1029
Delta R.T. 0.01 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Instrument :
BNA_F
ClientSampleId :
SB-44S

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.6	8.2	12.2
80	9.5	8.9	13.3

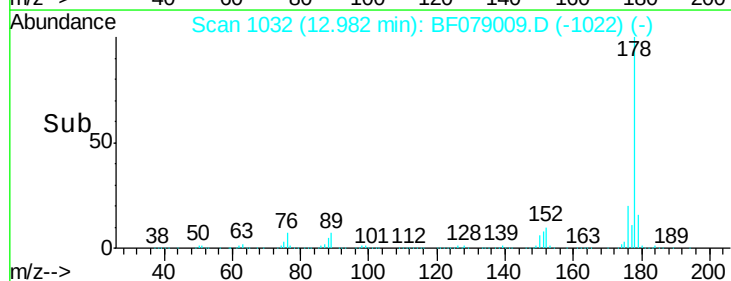
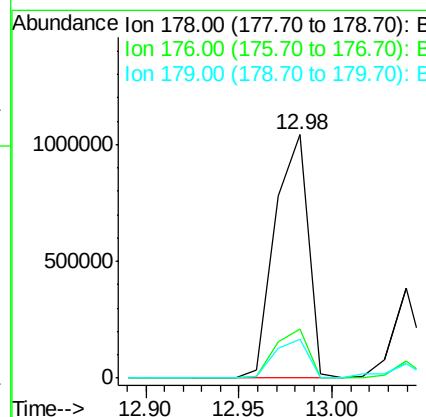
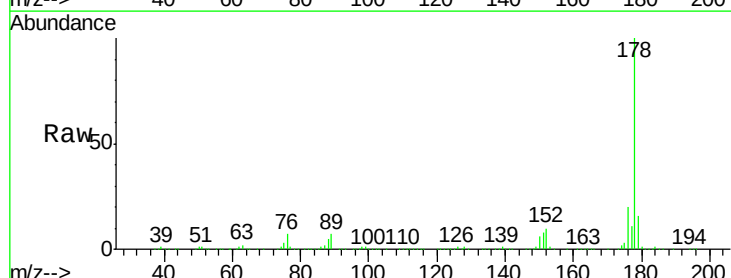
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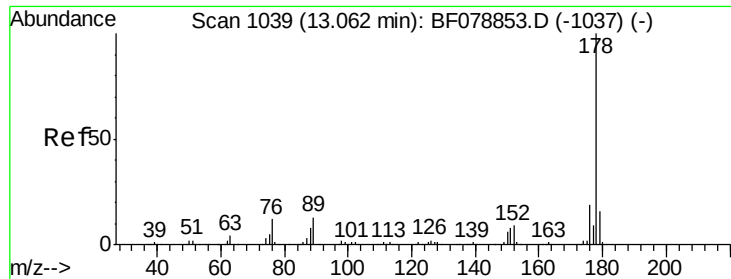
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#70
Phenanthrene
Concen: 91.37 ng
RT: 12.98 min Scan# 1032
Delta R.T. 0.01 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.4	15.8	23.8
179	15.9	12.5	18.7





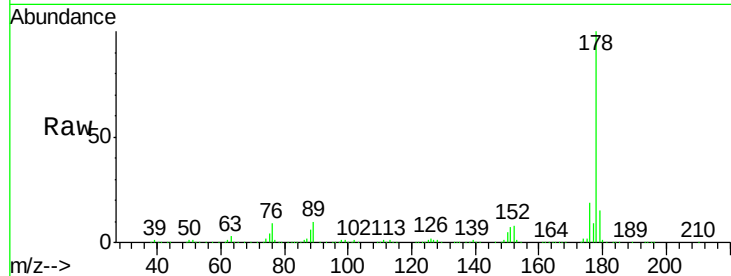
#71
 Anthracene
 Concen: 25.46 ng
 RT: 13.04 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Instrument :
 BNA_F
 ClientSampleId :
 SB-44S

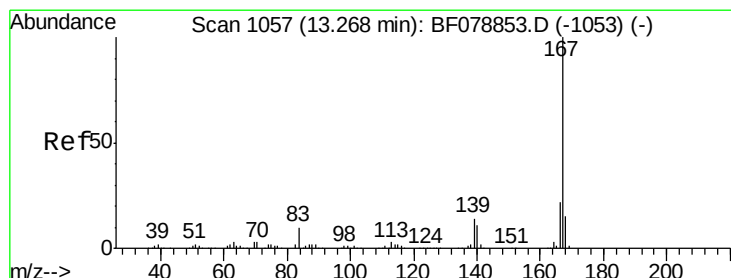
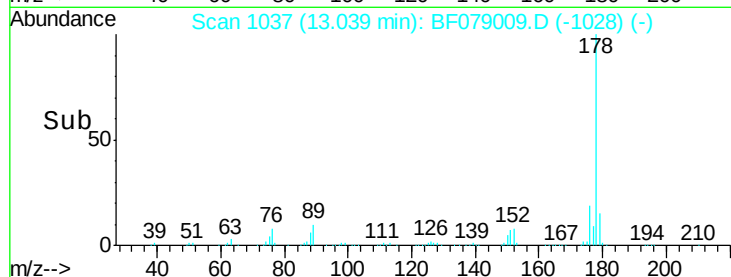
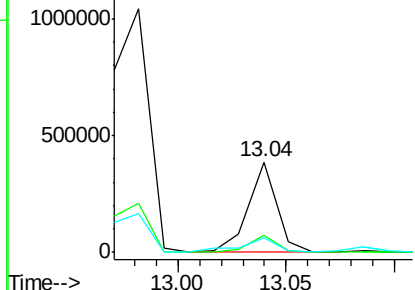
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.5	23.3
179	15.5	12.7	19.1

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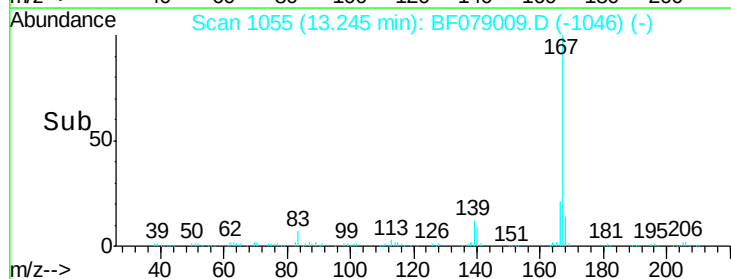
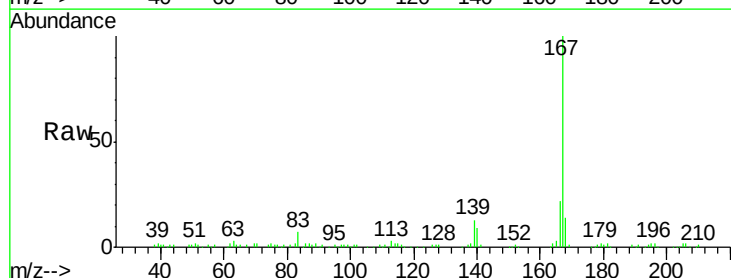
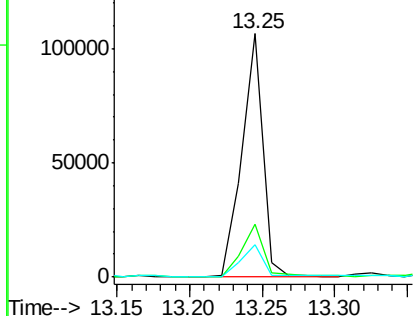
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

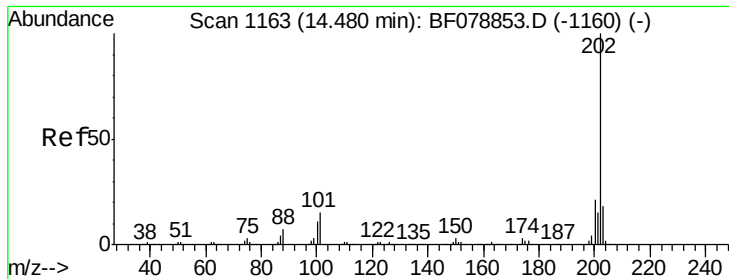


#72
 Carbazole
 Concen: 8.18 ng
 RT: 13.25 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.8	26.8
139	13.4	10.6	16.0

Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 114.32 ng

RT: 14.46 min Scan# 1161

Delta R.T. 0.00 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Instrument :

BNA_F

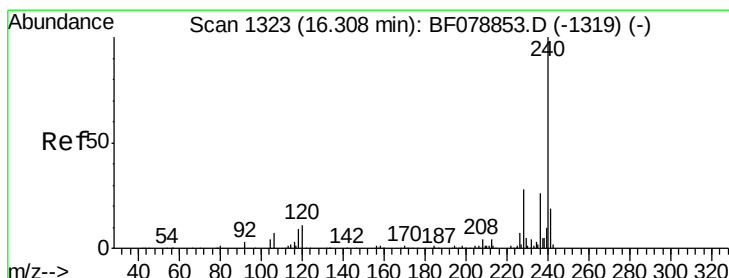
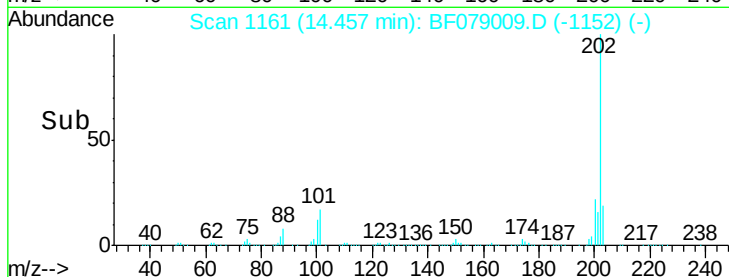
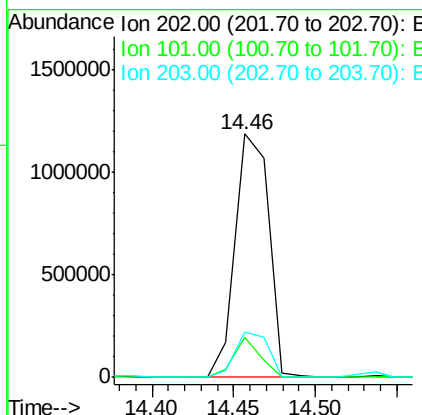
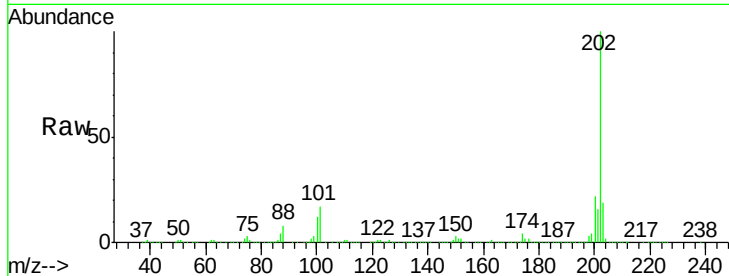
ClientSampleId :

SB-44S

Tot Ion:	202	Resp:	1682202
Ion Ratio	Lower	Upper	
202	100		
101	16.6	0.0	34.6
203	18.8	0.0	38.4

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#75

Chrysene-d12

Concen: 20.00 ng

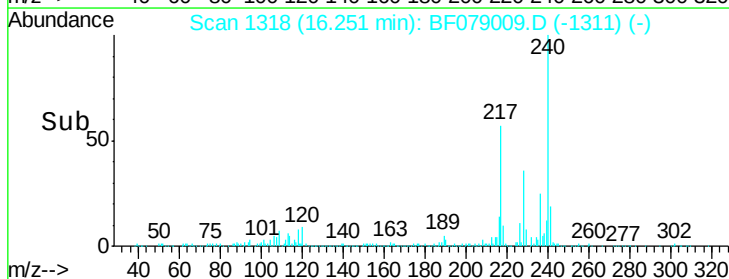
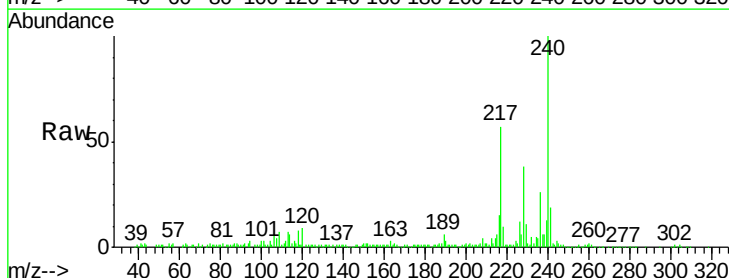
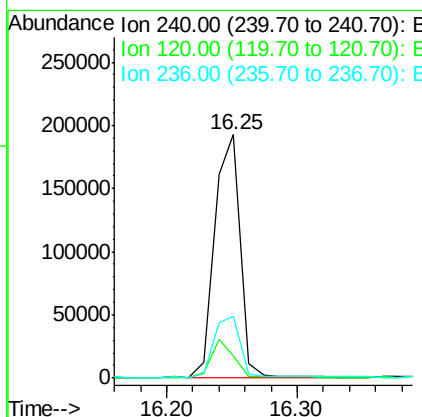
RT: 16.25 min Scan# 1318

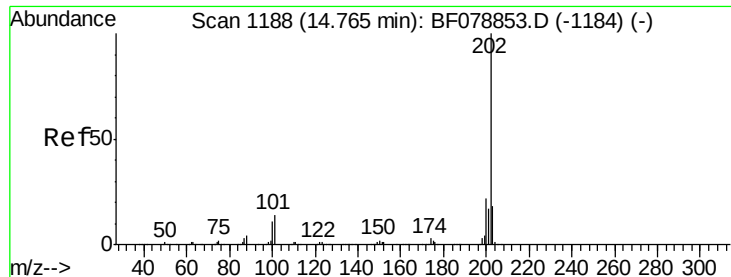
Delta R.T. -0.02 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Tgt Ion:	240	Resp:	259986
Ion Ratio	Lower	Upper	
240	100		
120	9.1	9.7	14.5#
236	25.5	20.2	30.4





#77

Pvrene

Concen: 99.50 ng

RT: 14.74 min Scan# 1186

Delta R.T. 0.01 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Instrument :

BNA_F

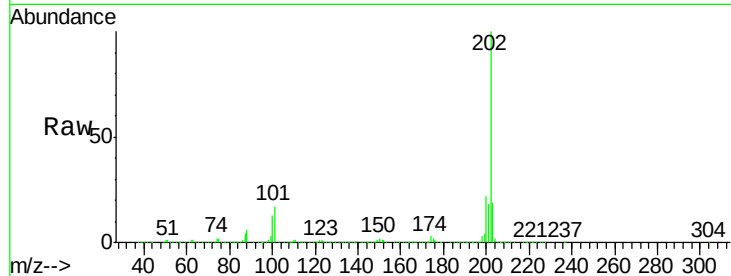
ClientSampleId :

SB-44S

Tot Ion:	202	Resp:	1490662
Ion Ratio	Lower	Upper	
202	100		
200	22.5	17.5	26.3
203	19.5	13.9	20.9

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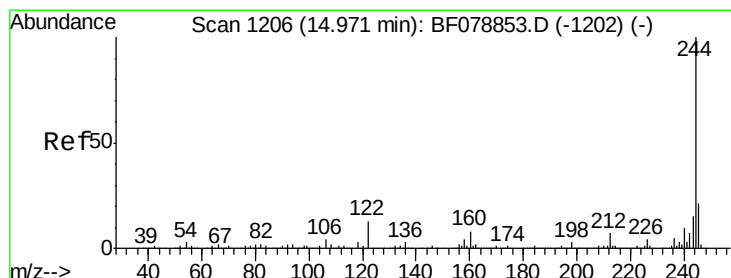
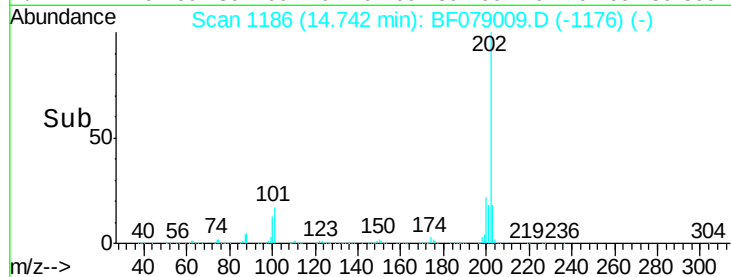
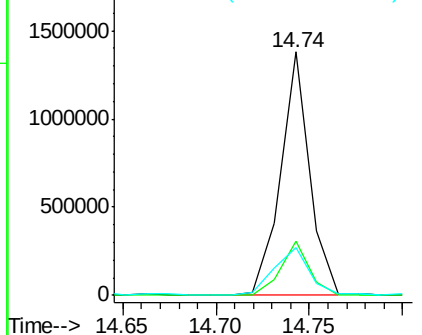
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 15.50 ng

RT: 14.94 min Scan# 1203

Delta R.T. 0.00 min

Lab File: BF079009.D

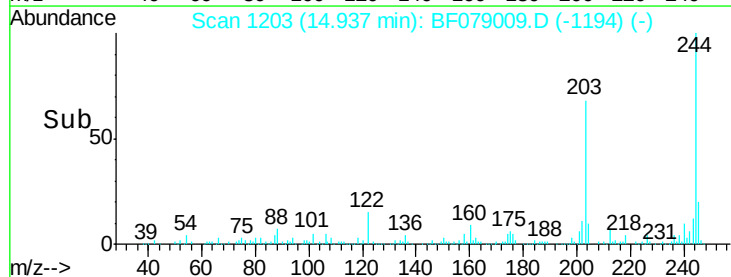
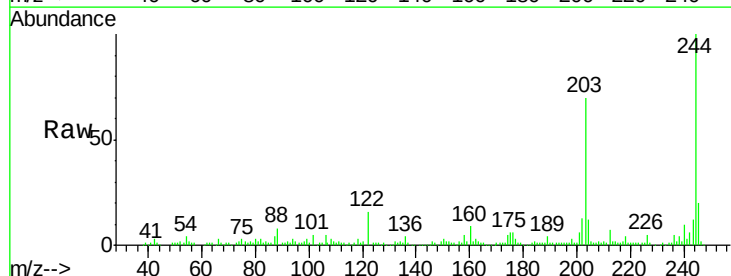
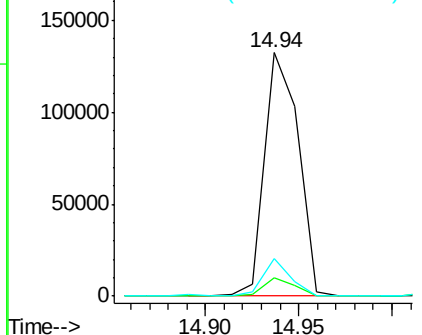
Acq: 7 May 2015 21:32

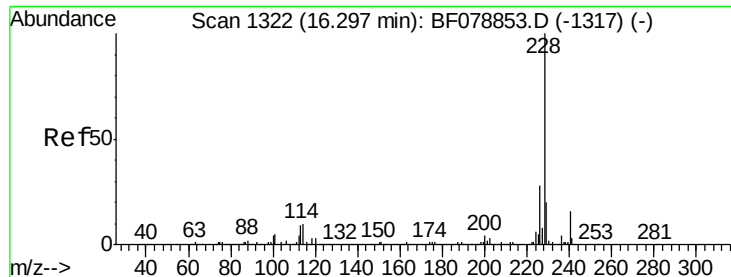
Tgt Ion:	244	Resp:	168345
Ion Ratio	Lower	Upper	
244	100		
212	7.4	5.6	8.4
122	15.5	10.3	15.5

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: 58.93 ng

RT: 16.23 min Scan# 1316

Delta R.T. -0.03 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Instrument :

BNA_F

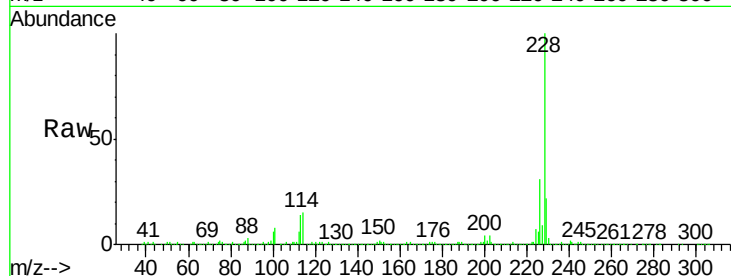
ClientSampled :

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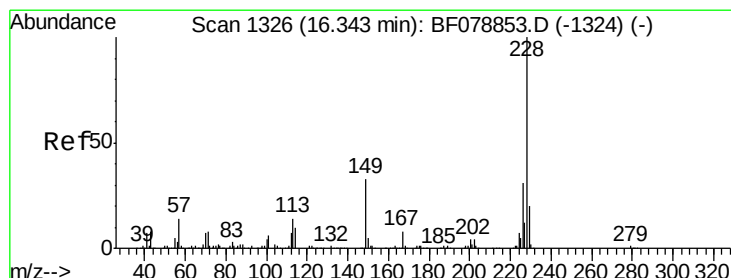
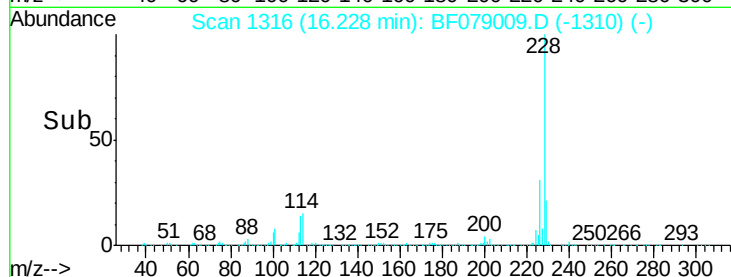
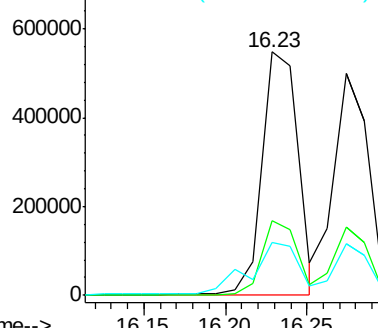
Tot Ion:	228	Resp:	839049
Ion Ratio	Lower	Upper	
228	100		
226	30.9	22.6	33.8
229	21.6	15.9	23.9

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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: 52.89 ng

RT: 16.27 min Scan# 1320

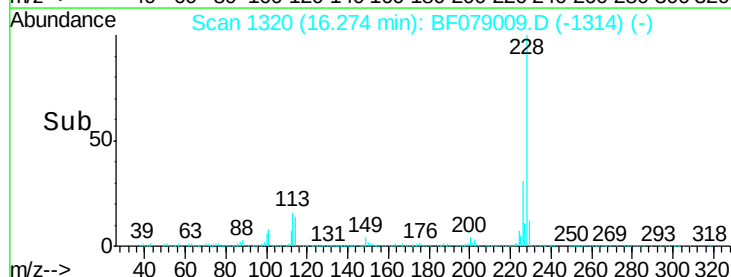
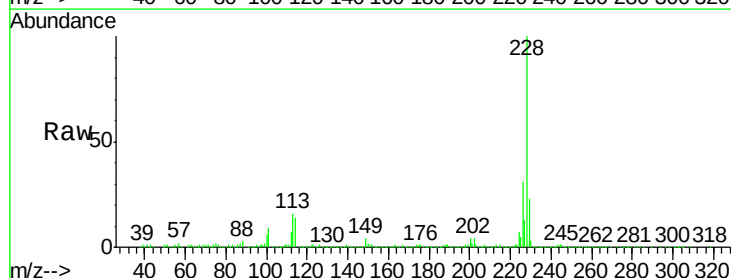
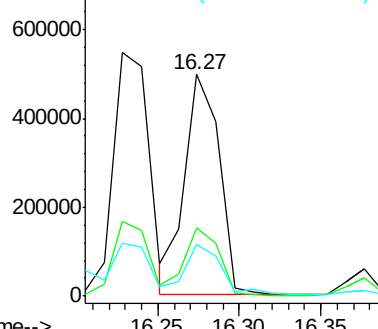
Delta R.T. -0.03 min

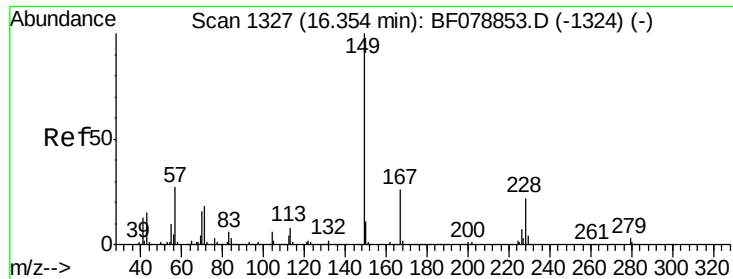
Lab File: BF079009.D

Acq: 7 May 2015 21:32

Tgt Ion:	228	Resp:	724266
Ion Ratio	Lower	Upper	
228	100		
226	30.6	24.9	37.3
229	23.4	16.0	24.0

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





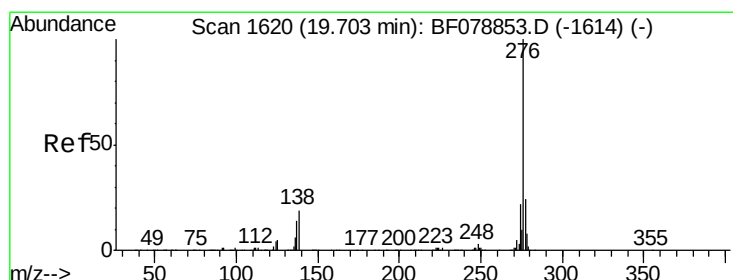
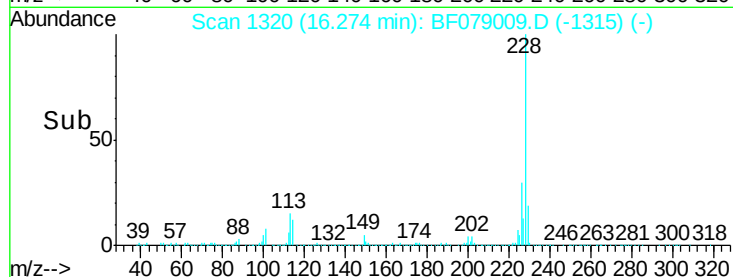
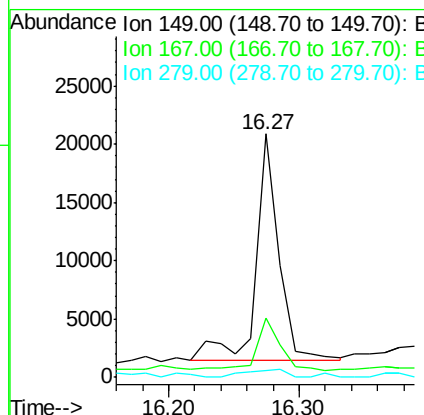
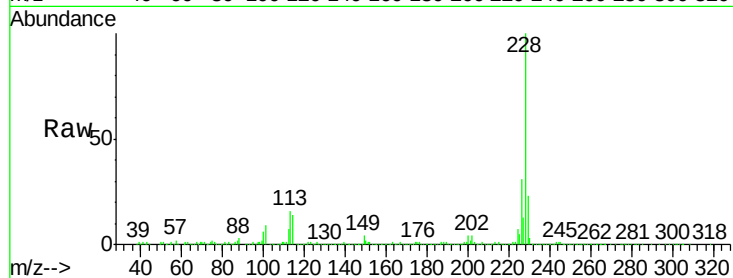
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.38 ng
 RT: 16.27 min Scan# 1320
 Delta R.T. -0.05 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Instrument :
 BNA_F
 ClientSampleID :
 SB-44S

Tot Ion	Ratio	Lower	Upper
149	100		
167	24.5	21.8	32.8
279	2.7	2.9	4.3#

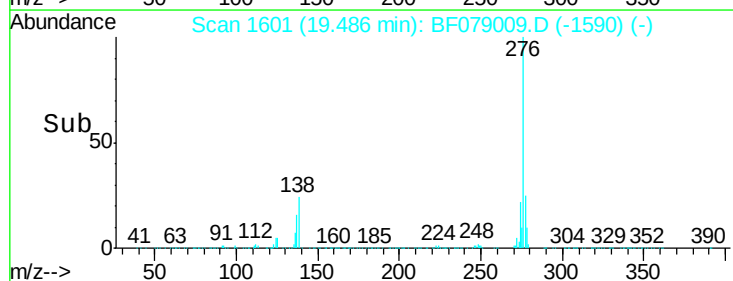
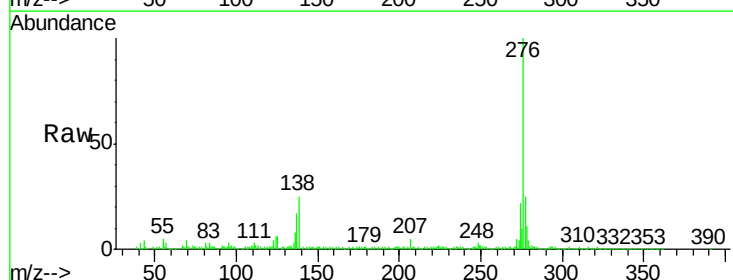
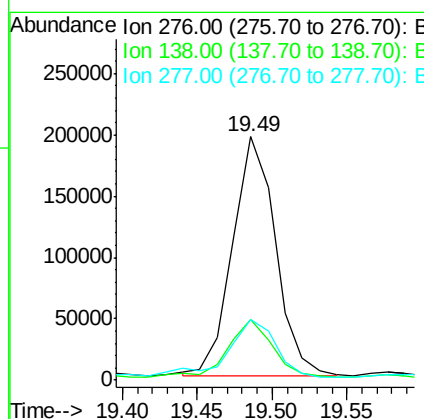
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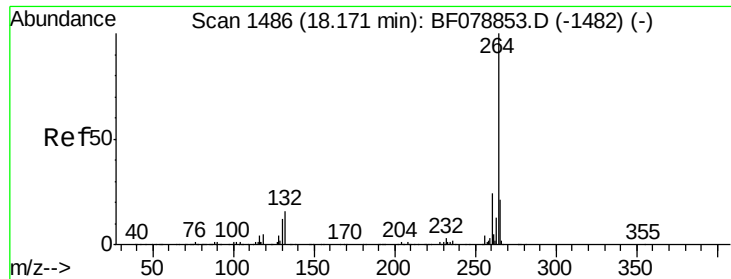
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 22.24 ng m
 RT: 19.49 min Scan# 1601
 Delta R.T. -0.17 min
 Lab File: BF079009.D
 Acq: 7 May 2015 21:32

Tgt Ion	Ratio	Lower	Upper
276	100		
138	3.8	0.0	0.0#
277	2.6	0.0	0.0#





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.99 min Scan# 1470

Delta R.T. -0.15 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Instrument :

BNA_F

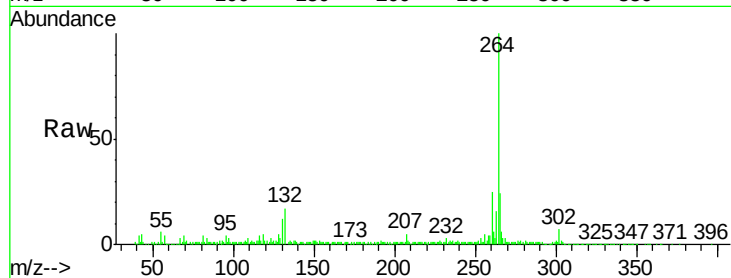
ClientSampled :

SB-44S

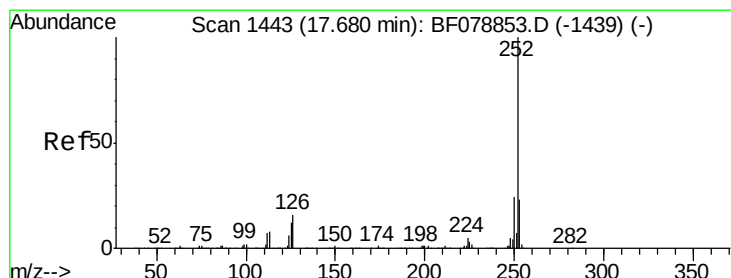
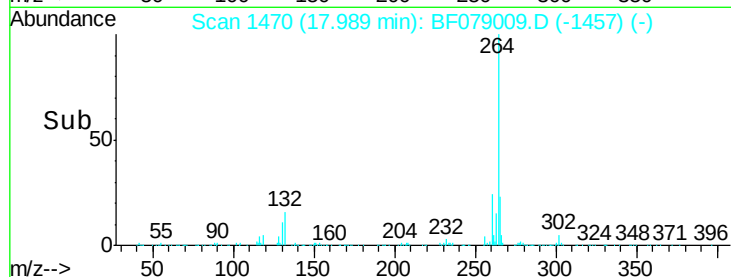
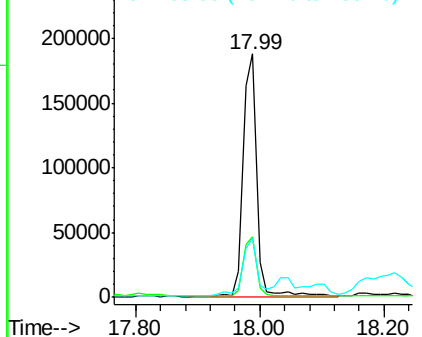
Tot Ion:	264	Resp:	288445
Ion Ratio	Lower	Upper	
264	100		
260	24.9	19.4	29.2
265	24.1	18.3	27.5

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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: 58.74 ng

RT: 17.53 min Scan# 1430

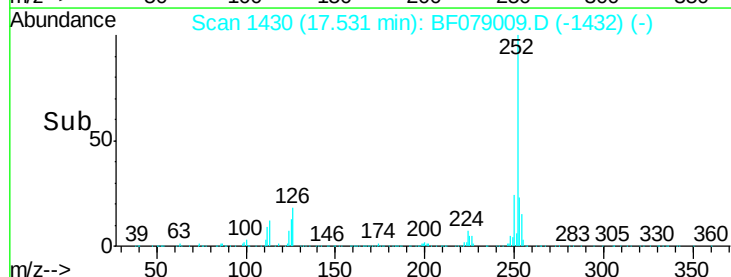
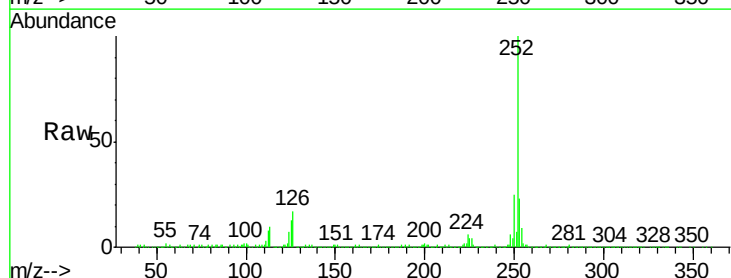
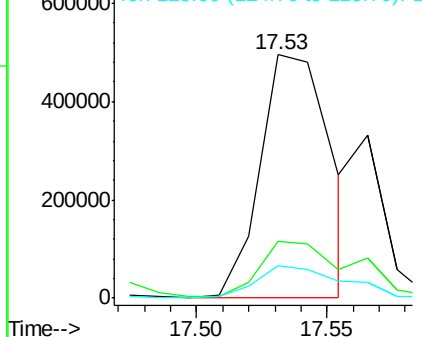
Delta R.T. -0.13 min

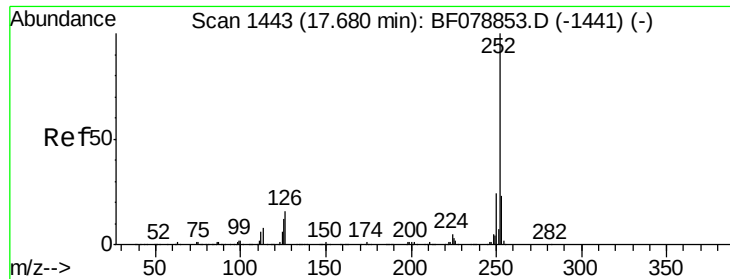
Lab File: BF079009.D

Acq: 7 May 2015 21:32

Tgt Ion:	252	Resp:	927397
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.7	26.5
125	13.3	9.5	14.3

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: 17.80 ng/mL

RT: 17.57 min Scan# 1433

Delta R.T. -0.13 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Instrument :

BNA_F

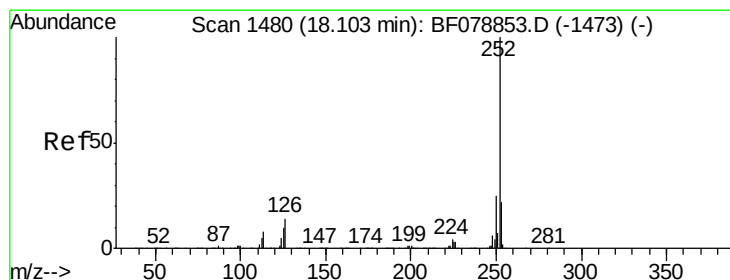
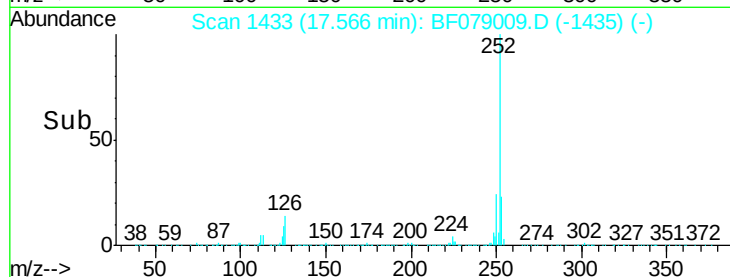
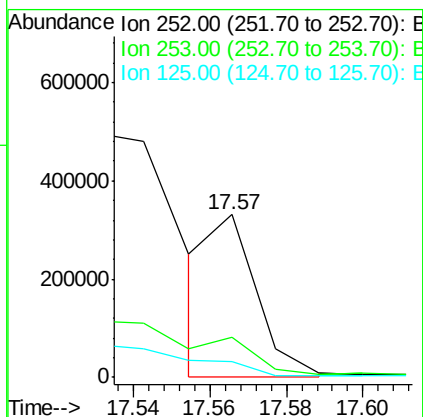
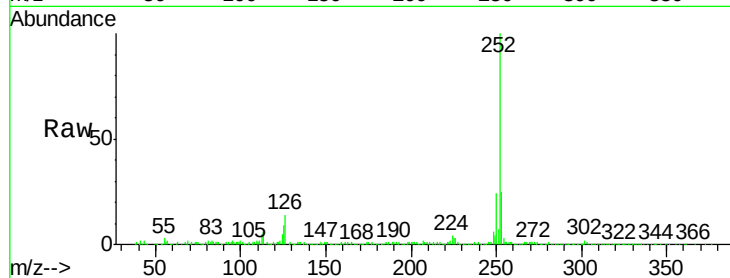
ClientSampleId :

SB-44S

Tot Ion:	252	Resp:	272039
Ion Ratio	Lower	Upper	
252	100		
253	24.6	18.1	27.1
125	9.4	10.0	15.0#

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#89

Benzo(a)pyrene

Concen: 46.24 ng/mL

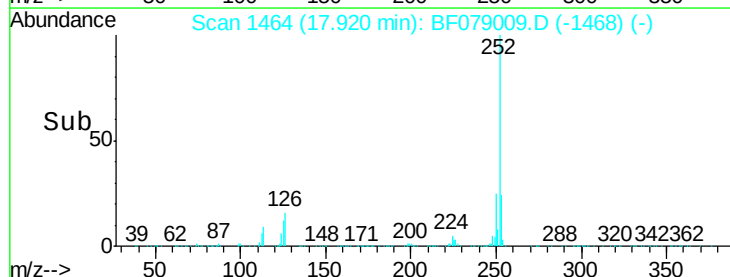
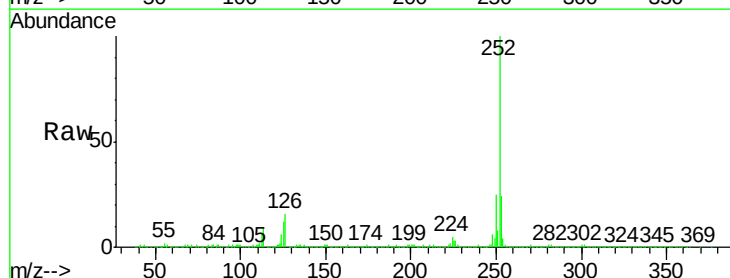
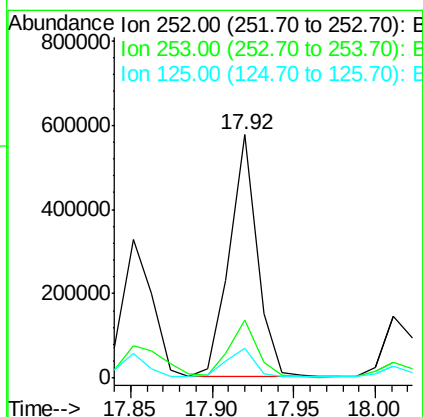
RT: 17.92 min Scan# 1464

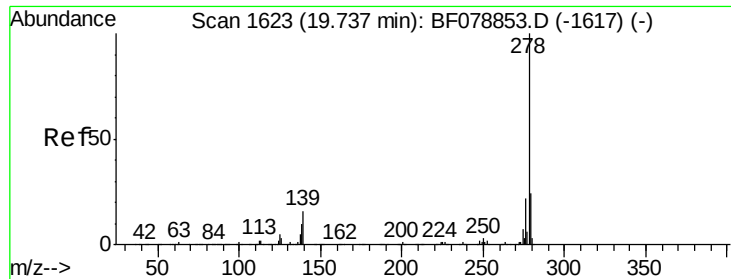
Delta R.T. -0.15 min

Lab File: BF079009.D

Acq: 7 May 2015 21:32

Tgt Ion:	252	Resp:	672237
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.3	25.9
125	12.1	7.0	10.6#





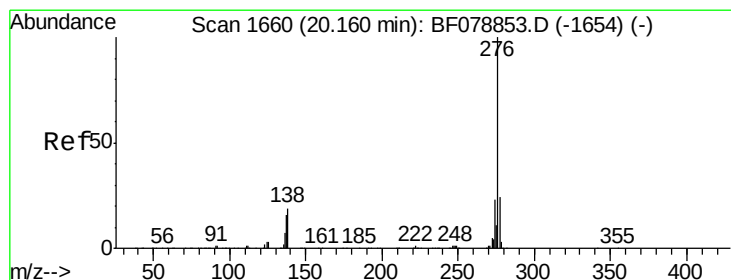
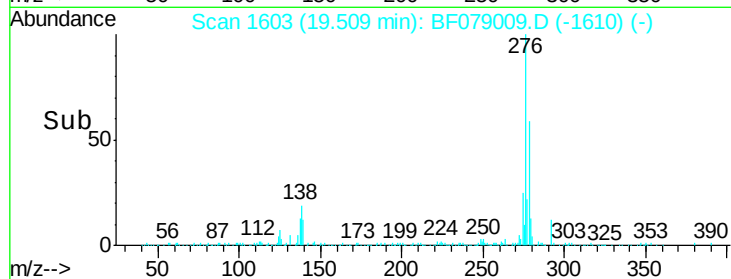
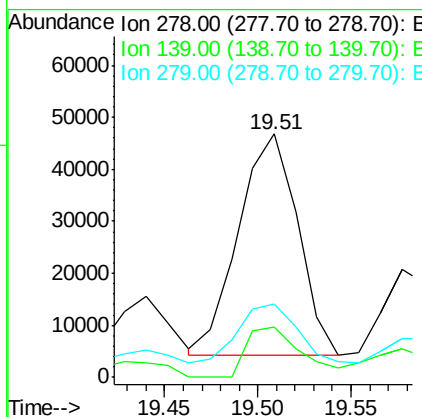
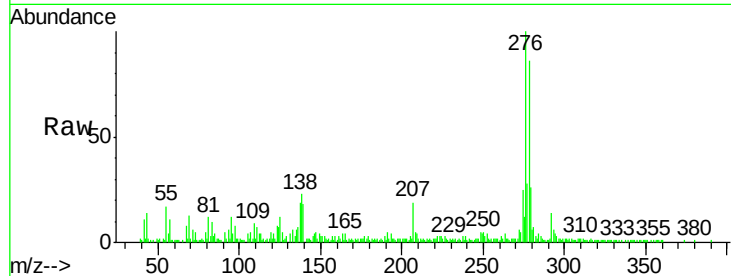
#90
Dibenzo(a,h)anthracene
Concen: 6.09 ng
RT: 19.51 min Scan# 1603
Delta R.T. -0.18 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Instrument :
BNA_F
ClientSampleId :
SB-44S

Tot Ion:	278	Resp:	94082
Ion Ratio	Lower	Upper	
278	100		
139	20.6	12.8	19.2#
279	30.2	19.6	29.4#

Manual Integrations
APPROVED

apatel
5/8/2015 3:51:05 PM



#91
Benzo(g,h,i)perylene
Concen: 24.83 ng
RT: 19.94 min Scan# 1641
Delta R.T. -0.16 min
Lab File: BF079009.D
Acq: 7 May 2015 21:32

Tgt Ion:	276	Resp:	384569
Ion Ratio	Lower	Upper	
276	100		
277	23.2	18.6	28.0
138	21.8	17.4	26.0

