

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF083116\
 Data File : BF089941.D
 Acq On : 31 Aug 2016 10:55
 Operator : UM/SJ
 Sample : H4551-08RE
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AST-6RE

Manual Integrations
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SOHIL
 9/1/2016 11:52:44 AM

Quant Time: Aug 31 16:07:01 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 31 11:55:18 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	211823	20.00	ng	0.00
21) Naphthalene-d8	7.92	136	867711	20.00	ng	-0.01
38) Acenaphthene-d10	9.67	164	458188	20.00	ng	0.00
63) Phenanthrene-d10	11.13	188	850034	20.00	ng	-0.01
75) Chrysene-d12	13.75	240	628356	20.00	ng	-0.01
86) Perylene-d12	15.10	264	498318	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	1431100	108.14	ng	0.01
7) Phenol-d6	6.27	99	1729963	107.58	ng	0.00
23) Nitrobenzene-d5	7.20	82	902991	60.35	ng	-0.01
41) 2,4,6-Tribromophenol	10.44	330	357685	79.13	ng	-0.01
44) 2-Fluorobiphenyl	8.99	172	1862014	66.71	ng	-0.01
78) Terphenyl-d14	12.72	244	1625367	63.90	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.39	163	644005	19.45	ng	100
70) Phenanthrene	11.15	178	455316	10.76	ng	99
71) Anthracene	11.21	178	90516	2.11	ng	98
72) Carbazole	11.36	167	92001	2.29	ng	97
73) Di-n-butylphthalate	11.71	149	163737	3.49	ng	# 98
74) Fluoranthene	12.33	202	664896	14.99	ng	95
77) Pyrene	12.56	202	595872	13.45	ng	98
80) Benzo(a)anthracene	13.74	228	287557	7.47	ng	99
82) Chrysene	13.77	228	216141	6.01	ng	97
85) Indeno(1,2,3-cd)pyrene	16.31	276	99678	3.75	ng	93
87) Benzo(b)fluoranthene	14.73	252	230595m	7.39	ng	
88) Benzo(k)fluoranthene	14.75	252	81756m	3.09	ng	
89) Benzo(a)pyrene	15.04	252	151833	5.68	ng	99
91) Benzo(g,h,i)perylene	16.67	276	92856	4.71	ng	99

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

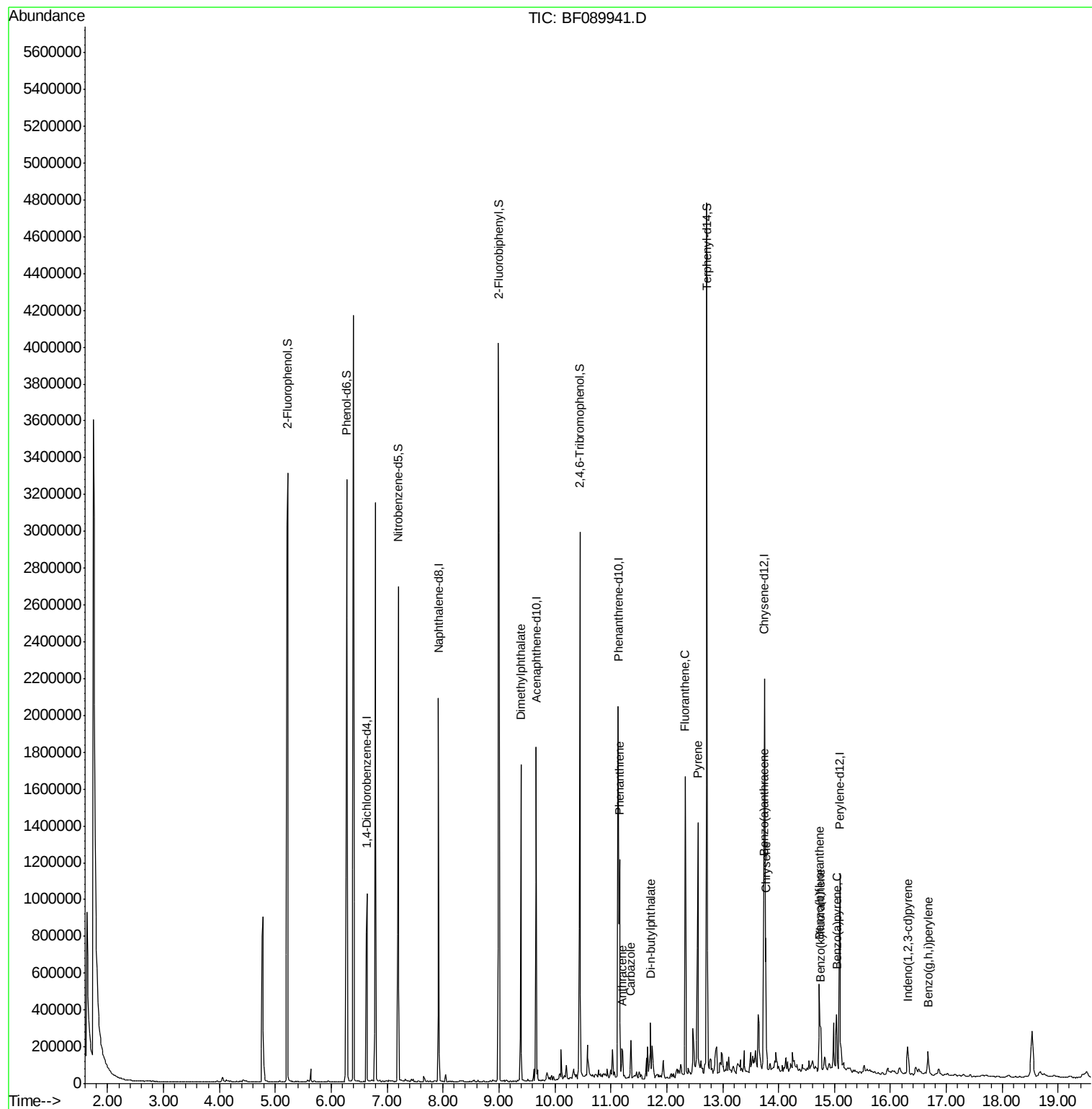
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF083116\
Data File : BF089941.D
Acq On : 31 Aug 2016 10:55
Operator : UM/SJ
Sample : H4551-08RE
Misc :
ALS Vial : 6 Sample Multiplier: 1

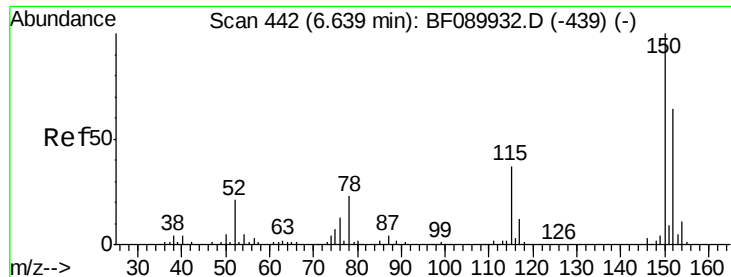
Instrument :
BNA_F
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AST-6RE

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Quant Time: Aug 31 16:07:01 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

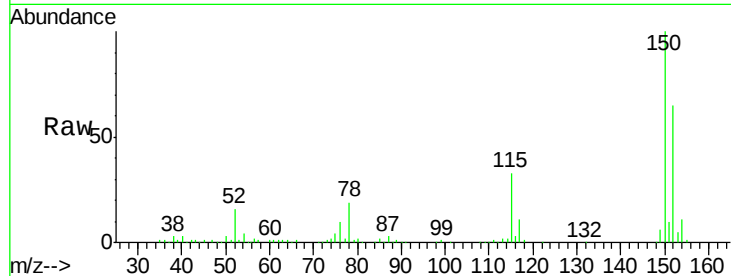
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.64 min Scan# 442
Delta R.T. 0.00 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

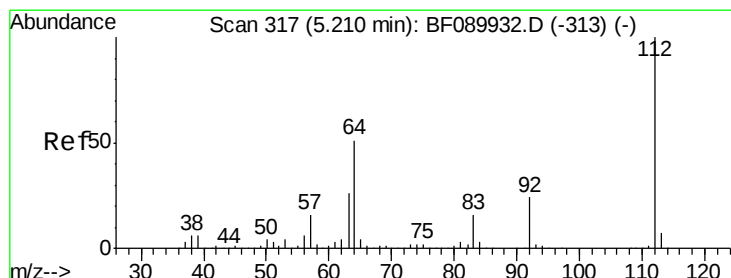
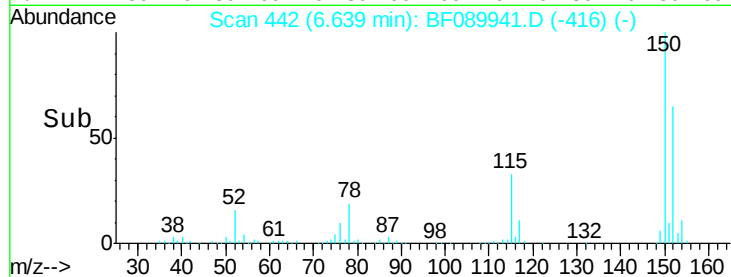
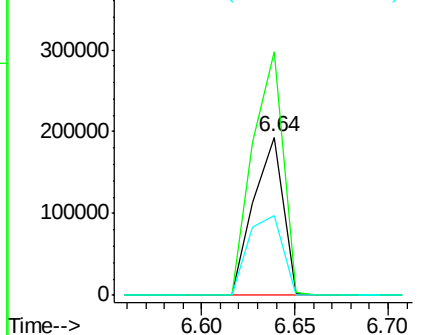
Tgt Ion	Ratio	Resp	Lower	Upper
152	100	211823		
150	153.9	127.4	191.2	
115	50.5	46.3	69.5	

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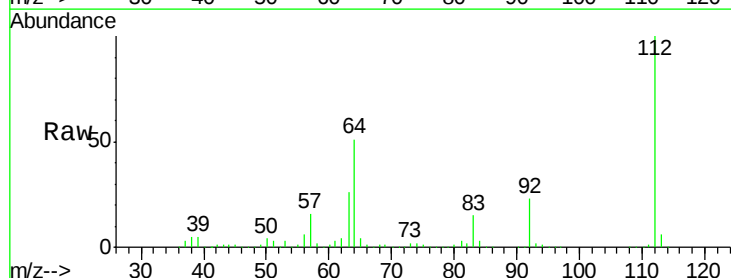
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



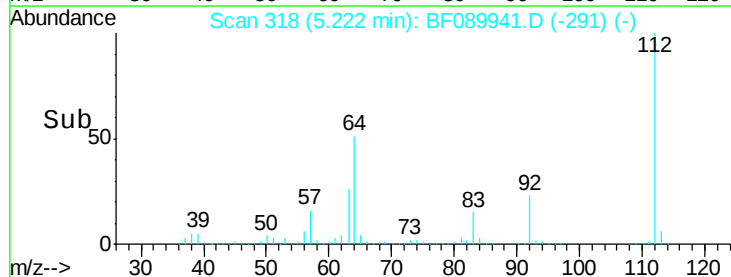
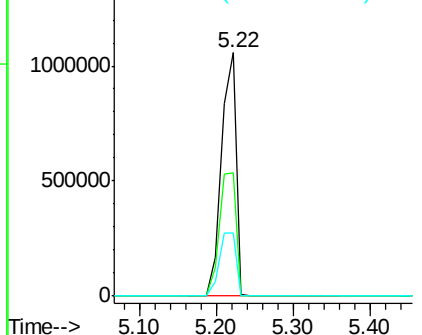
#5

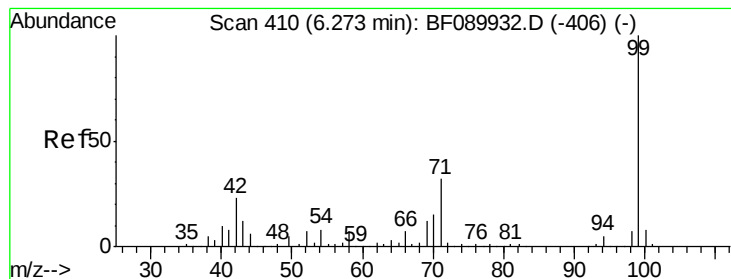
2-Fluorophenol
Concen: 108.14 ng
RT: 5.22 min Scan# 318
Delta R.T. 0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1431100		
64	50.9	41.1	61.7	
63	26.0	21.2	31.8	



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: 107.58 ng

RT: 6.27 min Scan# 410

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE

Tgt Ion: 99 Resp: 1729963

Ion Ratio Lower Upper

99 100

42 23.1 18.6 27.8

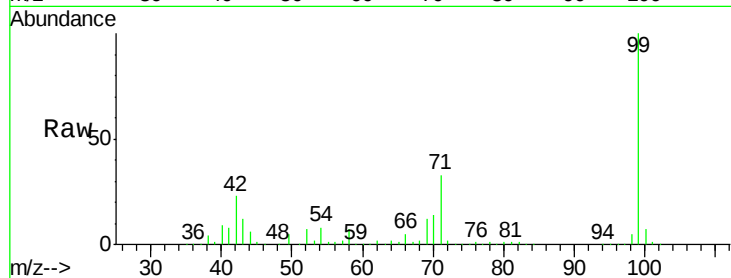
71 32.6 25.8 38.6

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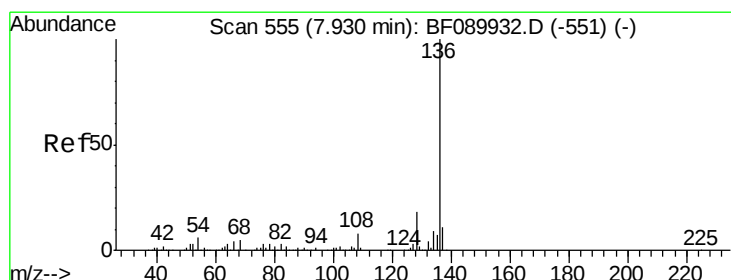
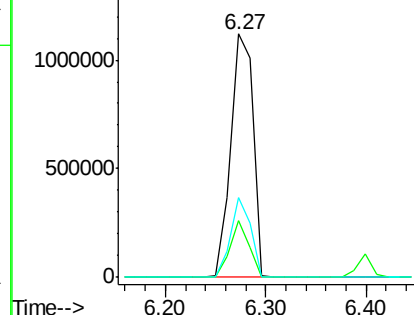
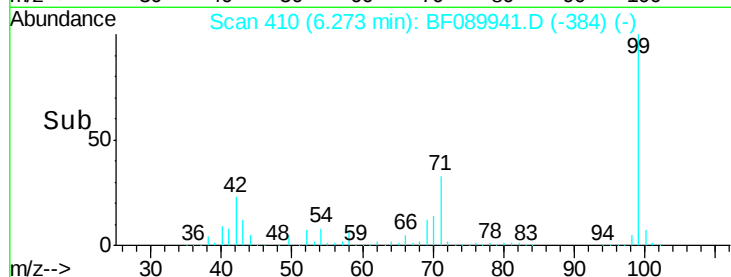
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Tgt Ion: 136 Resp: 867711

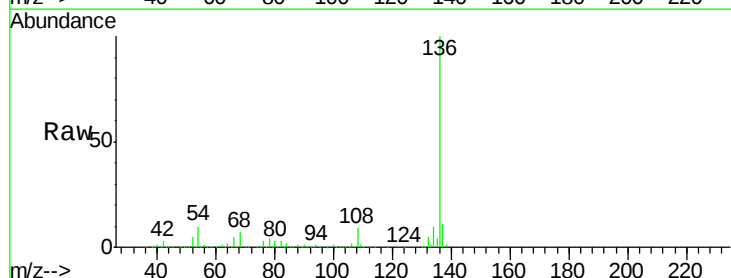
Ion Ratio Lower Upper

136 100

137 11.3 8.3 12.5

54 9.8 4.8 7.2#

68 6.8 3.7 5.5#

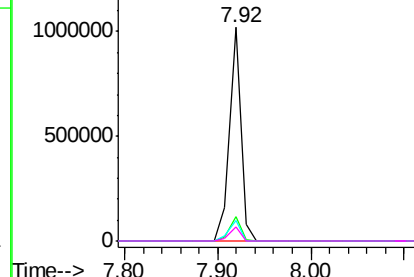
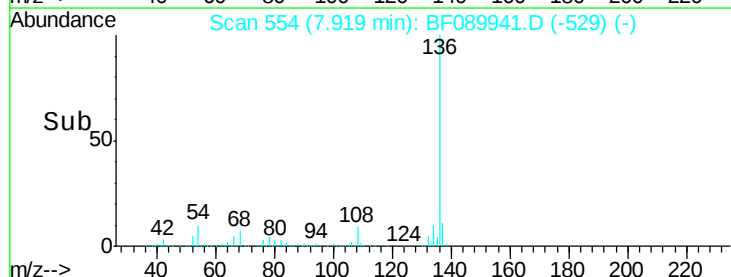


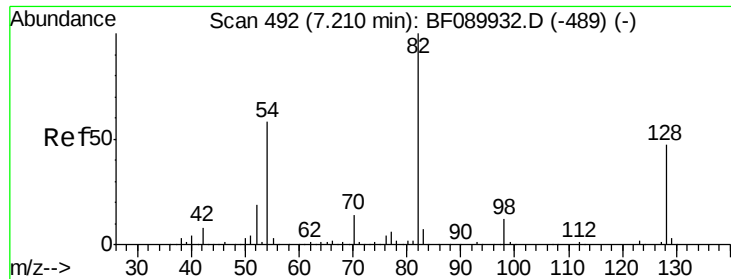
Abundance Ion 136.00 (135.70 to 136.70): E

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





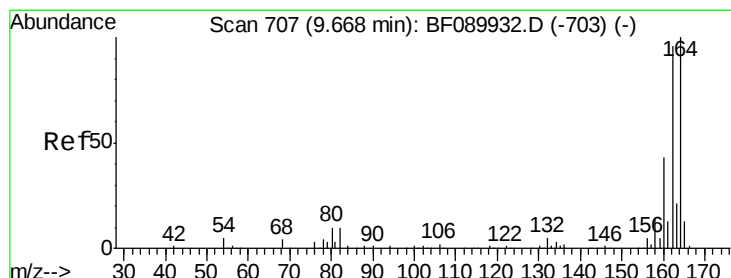
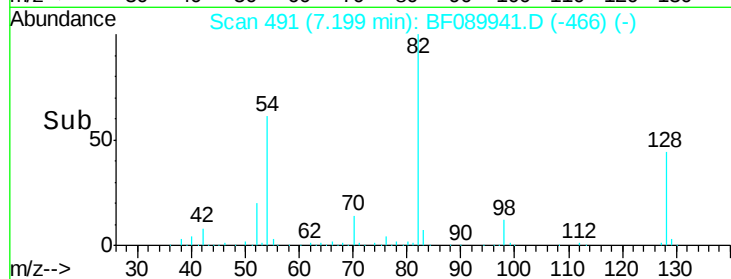
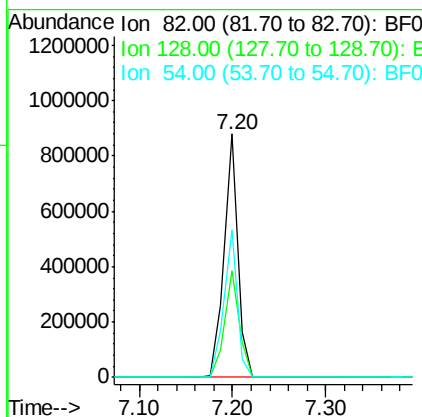
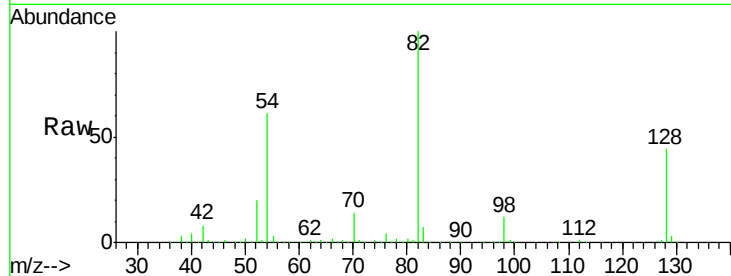
#23
 Nitrobenzene-d5
 Concen: 60.35 ng
 RT: 7.20 min Scan# 491
 Delta R.T. -0.01 min
 Lab File: BF089941.D
 Acq: 31 Aug 2016 10:55

Instrument :
 BNA_F
 ClientSampleId :
 AST-6RE

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	902991		
128	43.8	37.8	56.8	
54	60.9	46.9	70.3	

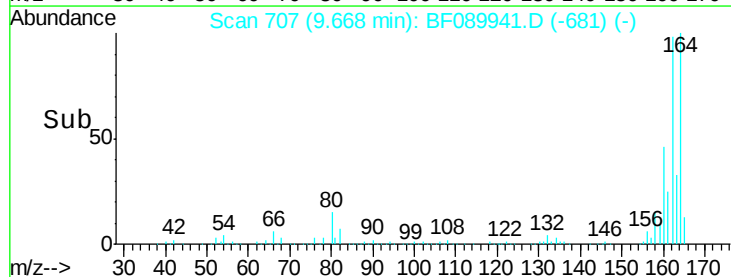
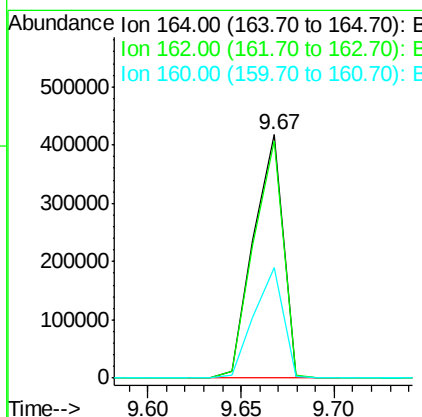
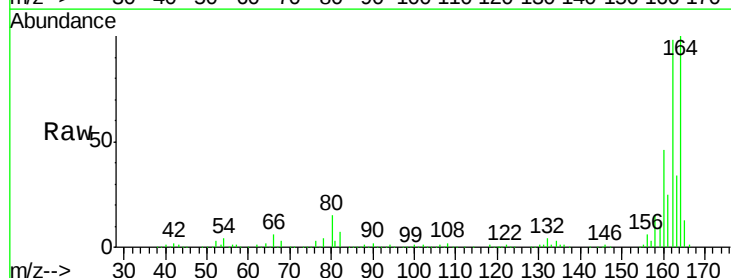
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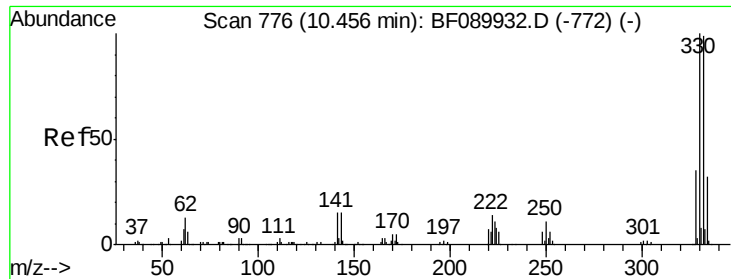
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.67 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: BF089941.D
 Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	458188		
162	97.6	77.1	115.7	
160	45.6	35.3	52.9	





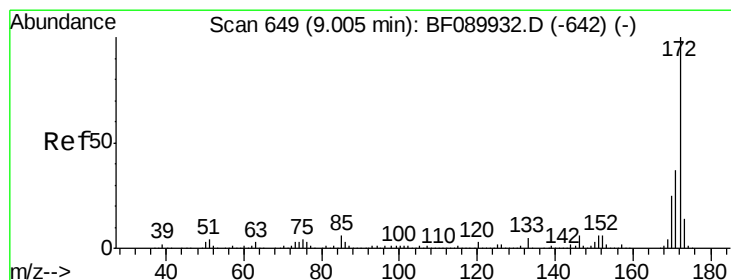
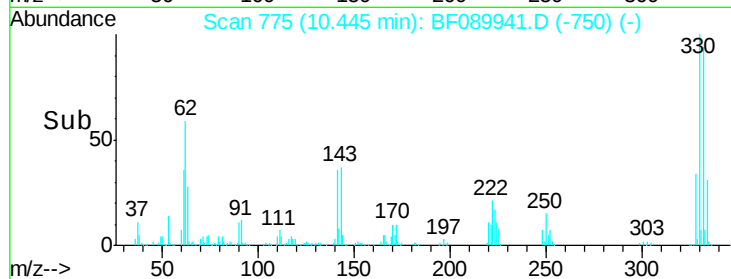
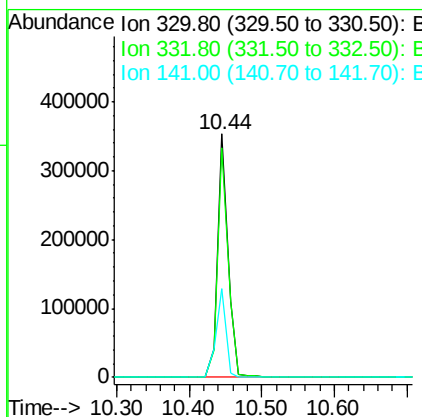
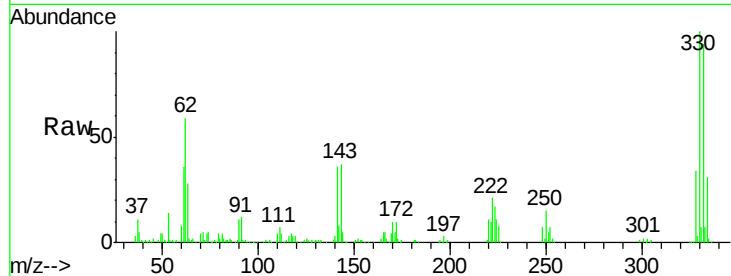
#41
 2,4,6-Tribromophenol
 Concen: 79.13 ng
 RT: 10.44 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: BF089941.D
 Acq: 31 Aug 2016 10:55

Instrument :
 BNA_F
 ClientSampleId :
 AST-6RE

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	357685		
332	95.5	78.6	117.8	
141	34.6	23.3	34.9	

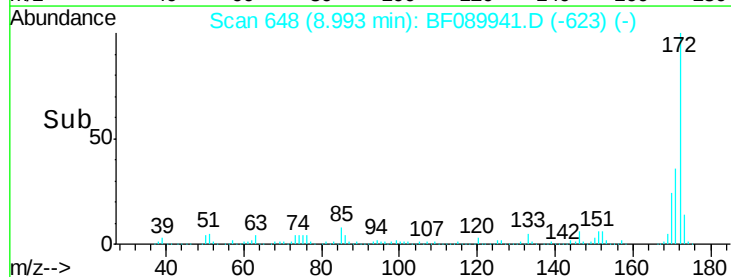
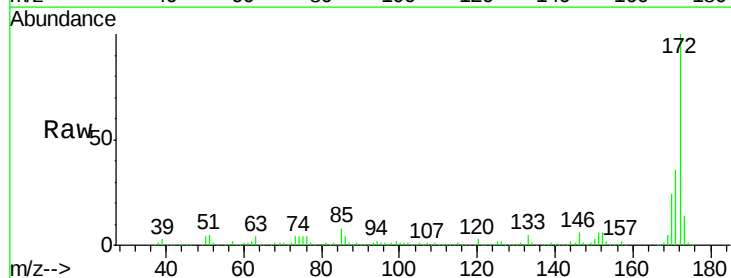
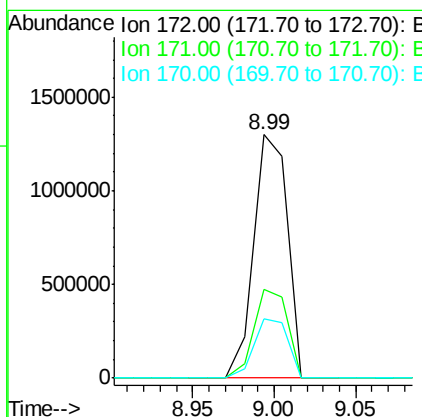
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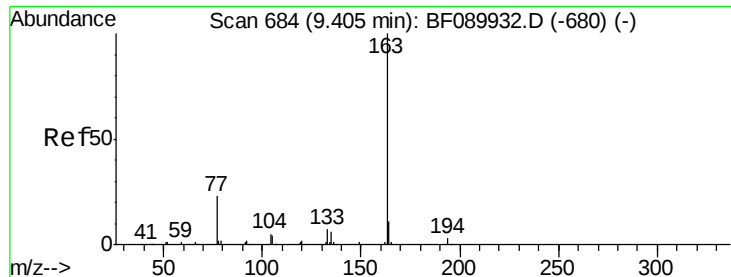
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#44
 2-Fluorobiphenyl
 Concen: 66.71 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.01 min
 Lab File: BF089941.D
 Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1862014		
171	36.4	29.4	44.2	
170	24.5	20.1	30.1	





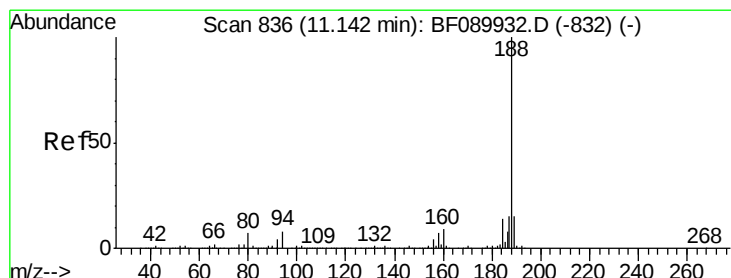
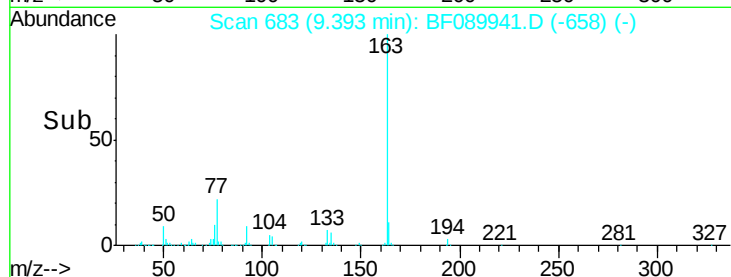
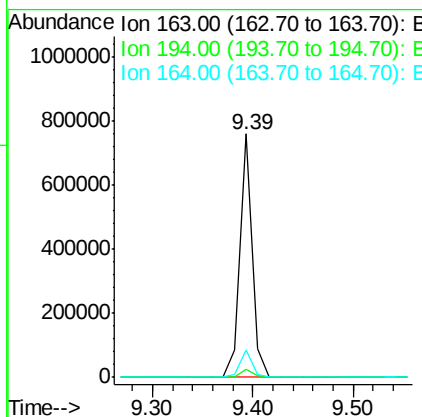
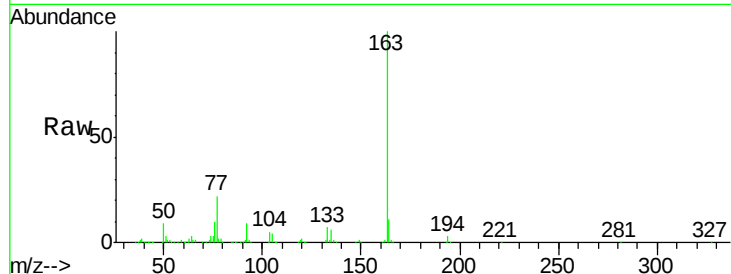
#49
Dimethylphthalate
Concen: 19.45 ng
RT: 9.39 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	644005		
194	3.3		2.7	4.1
164	11.2		9.0	13.4

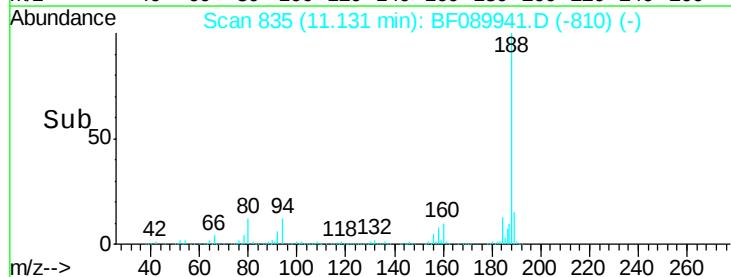
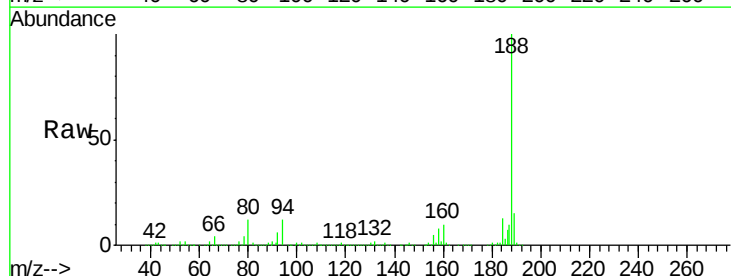
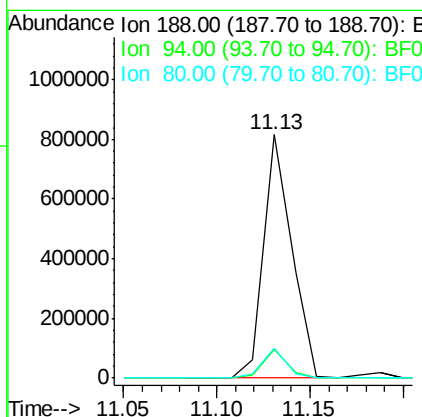
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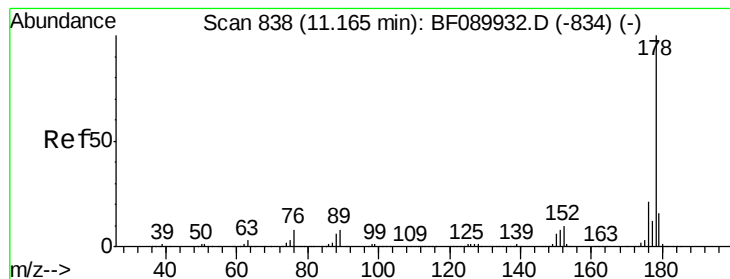
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	850034		
94	11.7		5.9	8.9#
80	12.2		5.8	8.8#





#70

Phenanthrene

Concen: 10.76 ng

RT: 11.15 min Scan# 837

Delta R.T. -0.01 min

Lab File: BF089941.D

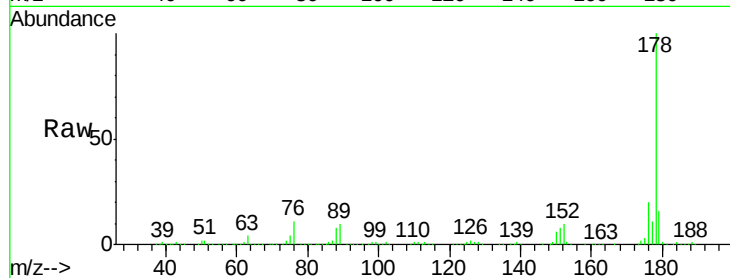
Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

ClientSampleId :

AST-6RE



Tgt Ion:178 Resp: 455316

Ion Ratio Lower Upper

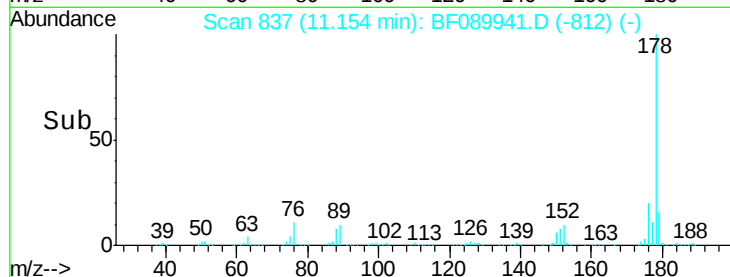
178 100

176 19.5 16.5 24.7

179 15.8 12.8 19.2

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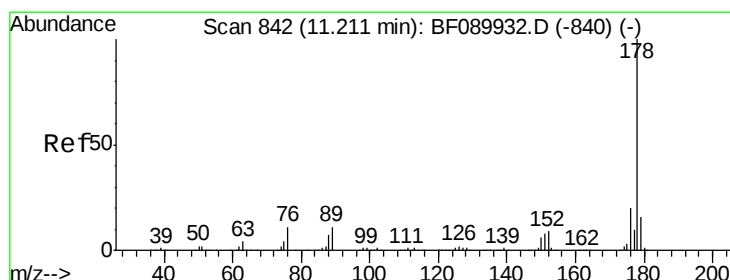
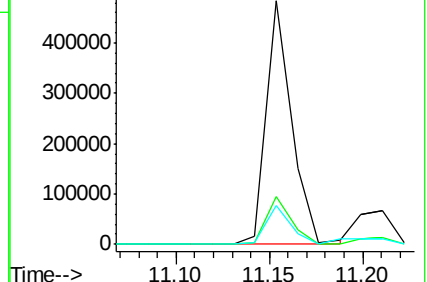
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.11 ng

RT: 11.21 min Scan# 842

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

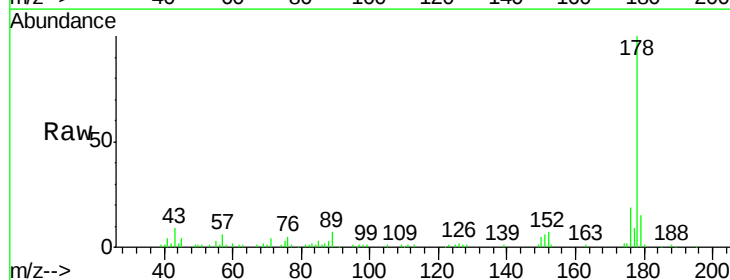
Tgt Ion:178 Resp: 90516

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

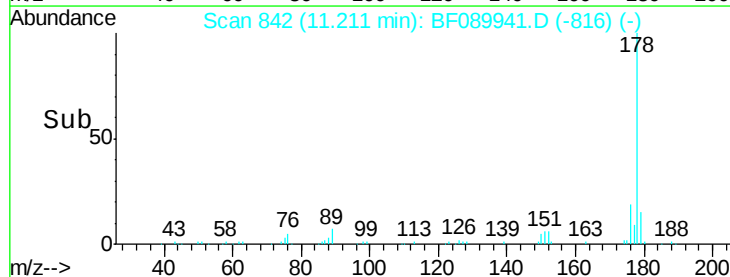
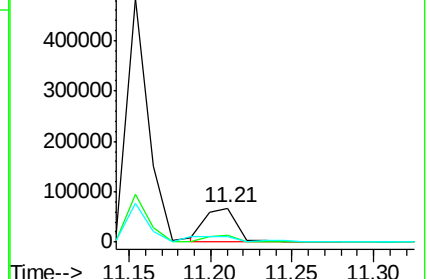
179 15.3 13.0 19.4

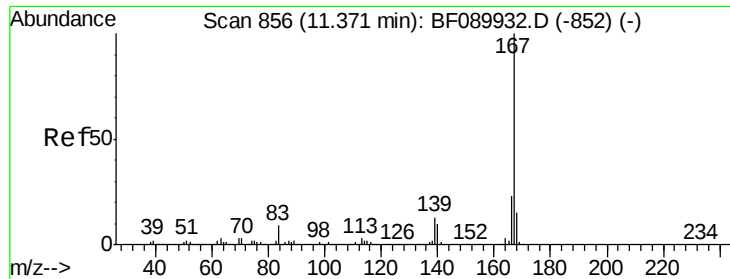


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.29 ng

RT: 11.36 min Scan# 855

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

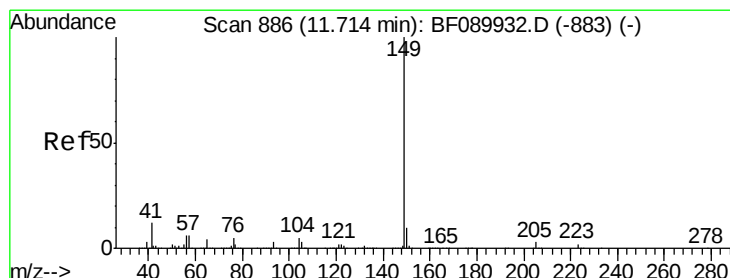
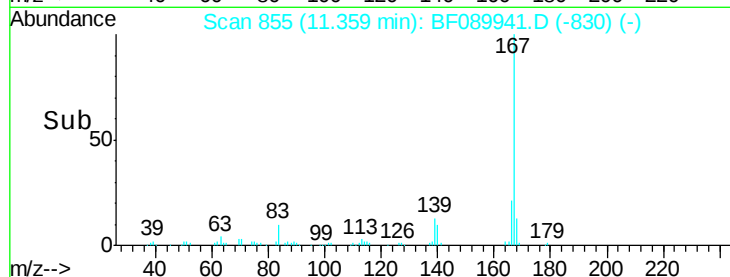
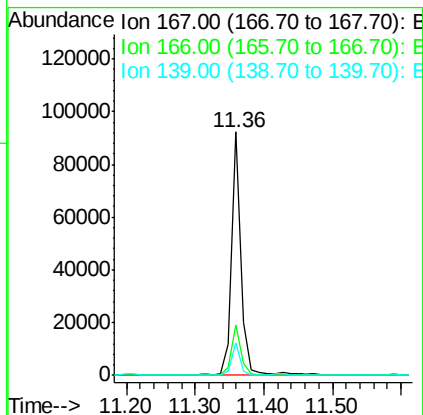
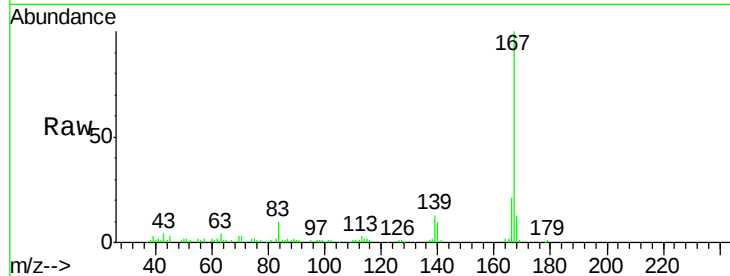
ClientSampleId :

AST-6RE

Tgt Ion:	167	Resp:	92001
Ion Ratio	Lower	Upper	
167	100		
166	20.7	18.1	27.1
139	13.1	10.4	15.6

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#73

Di-n-butylphthalate

Concen: 3.49 ng

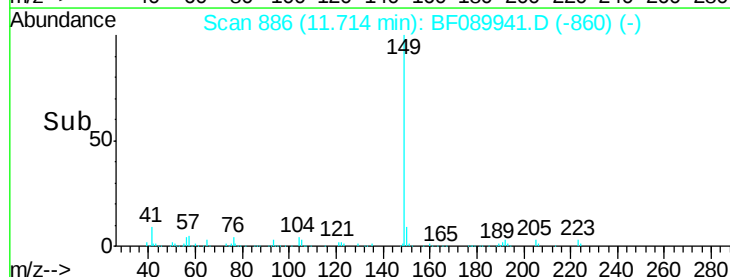
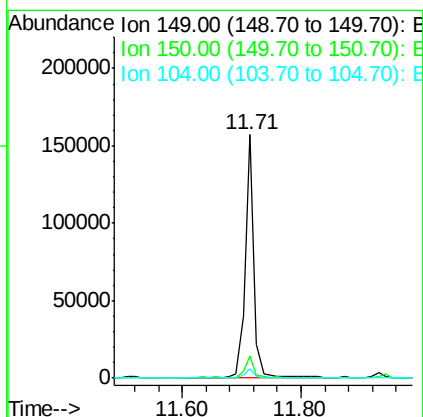
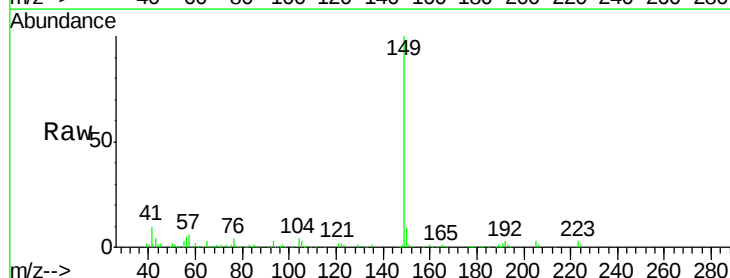
RT: 11.71 min Scan# 886

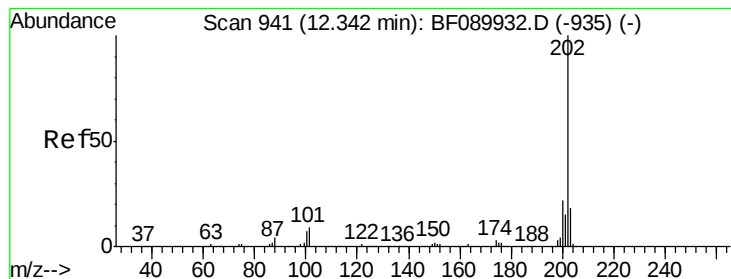
Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Tgt Ion:	149	Resp:	163737
Ion Ratio	Lower	Upper	
149	100		
150	9.2	7.8	11.8
104	3.8	3.9	5.9#





#74

Fluoranthene

Concen: 14.99 ng

RT: 12.33 min Scan# 940

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

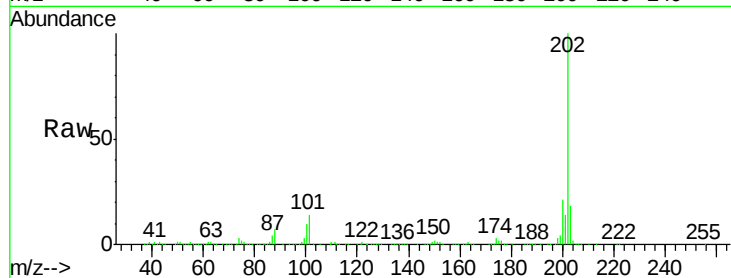
ClientSampleId :

AST-6RE

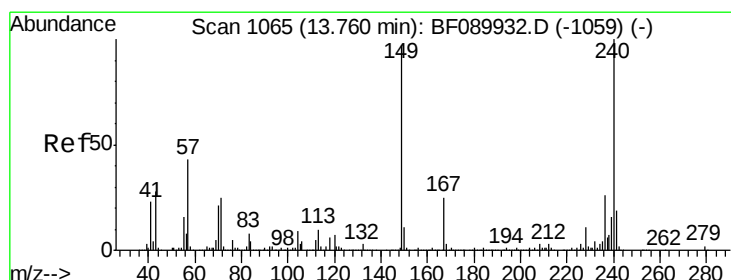
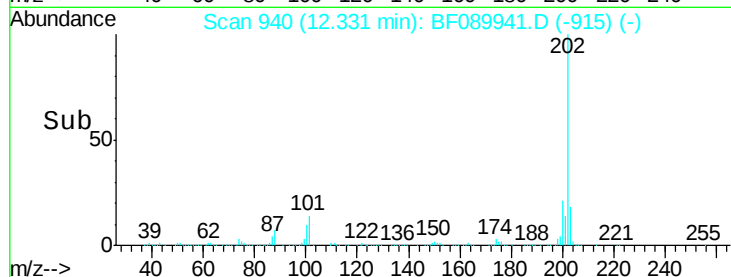
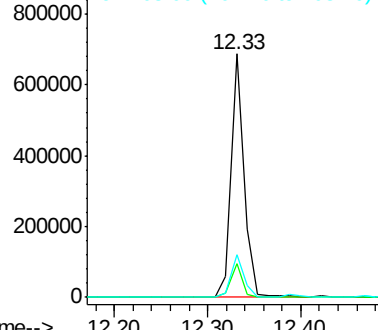
Tgt	Ion	202	Resp:	664896
Ion	Ratio	Lower	Upper	
202	100			
101	13.8	0.0	28.5	
203	17.7	0.0	38.0	

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

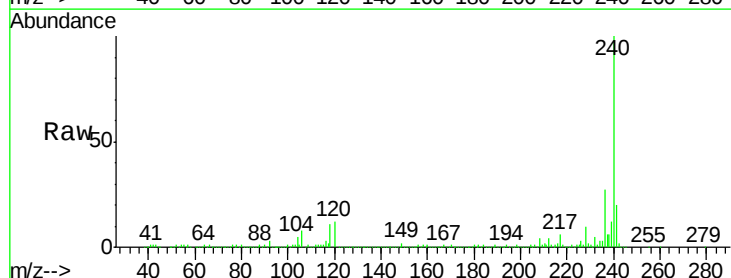
RT: 13.75 min Scan# 1064

Delta R.T. -0.01 min

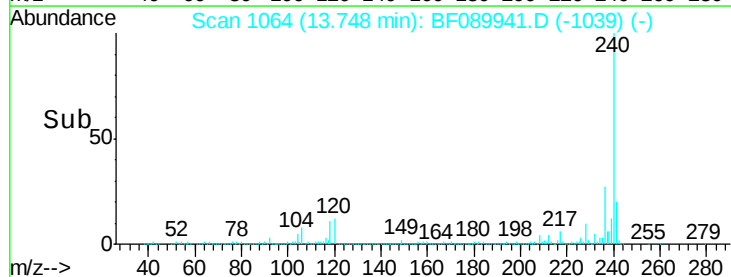
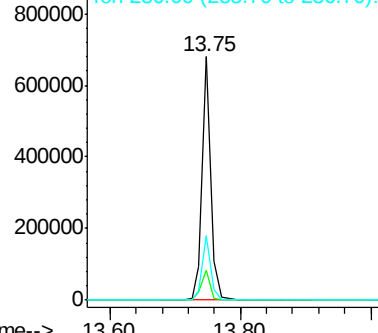
Lab File: BF089941.D

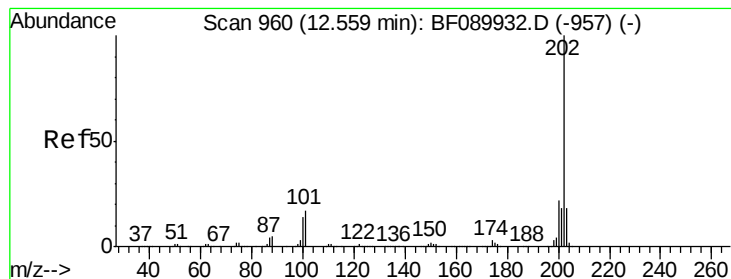
Acq: 31 Aug 2016 10:55

Tgt	Ion	240	Resp:	628356
Ion	Ratio	Lower	Upper	
240	100			
120	12.5	5.7	8.5#	
236	26.5	21.3	31.9	



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: 13.45 ng

RT: 12.56 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

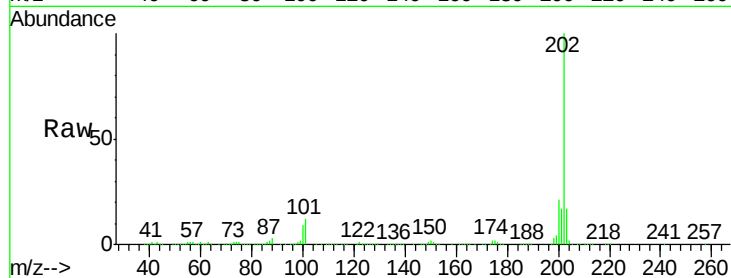
ClientSampleId :

AST-6RE

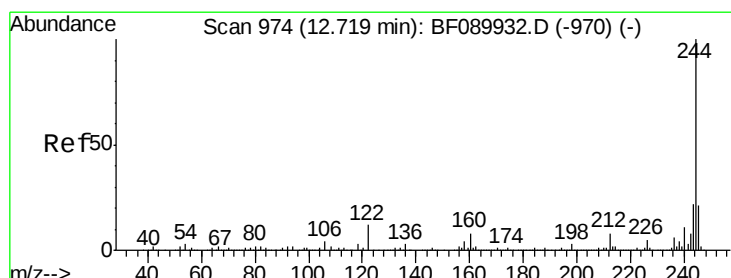
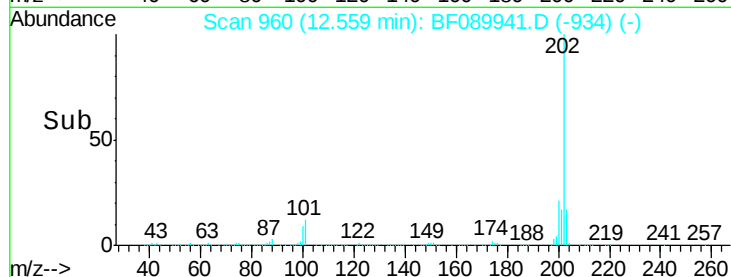
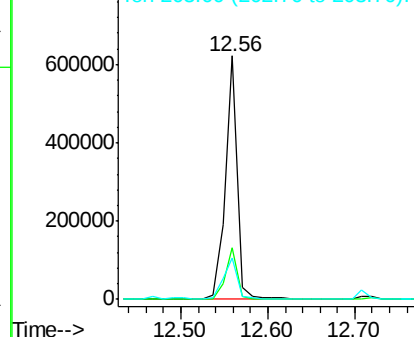
Tgt Ion:	202	Resp:	595872
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.6	26.4
203	17.3	14.6	21.8

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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: 63.90 ng

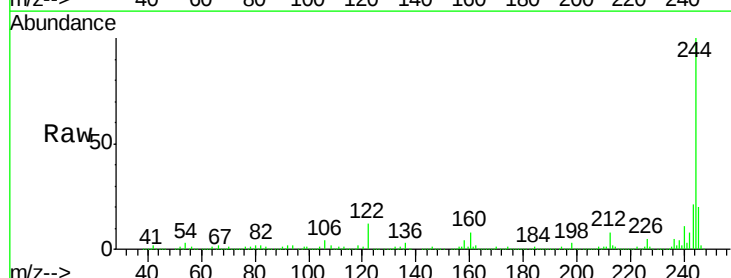
RT: 12.72 min Scan# 974

Delta R.T. 0.00 min

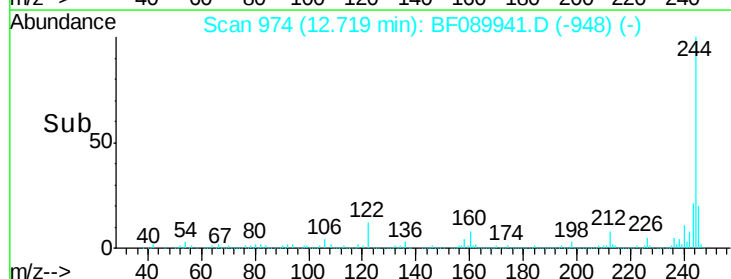
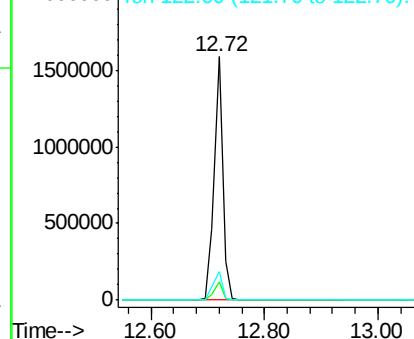
Lab File: BF089941.D

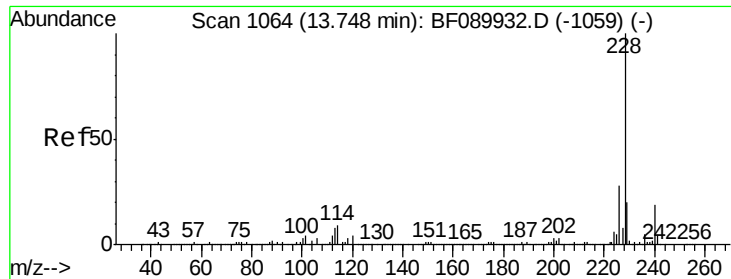
Acq: 31 Aug 2016 10:55

Tgt Ion:	244	Resp:	1625367
Ion Ratio	Lower	Upper	
244	100		
212	7.7	6.1	9.1
122	11.6	9.6	14.4



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: 7.47 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

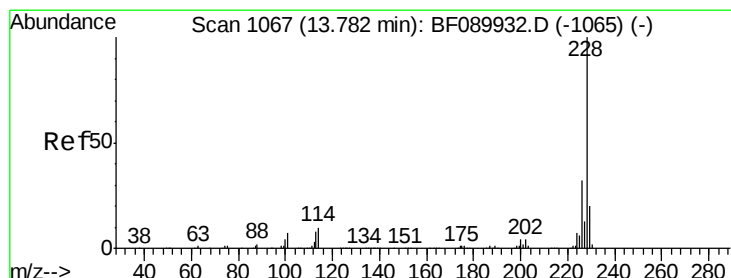
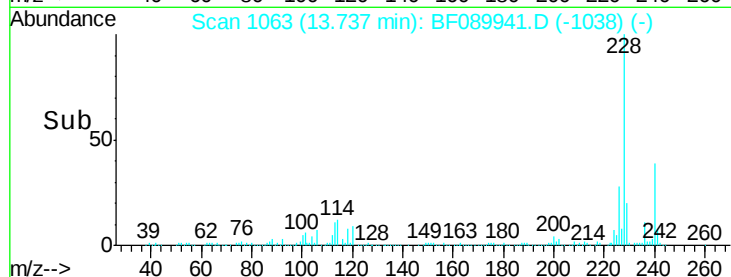
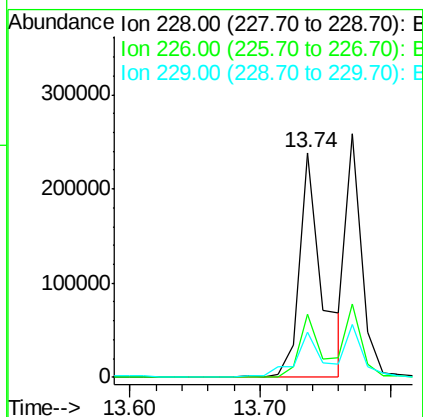
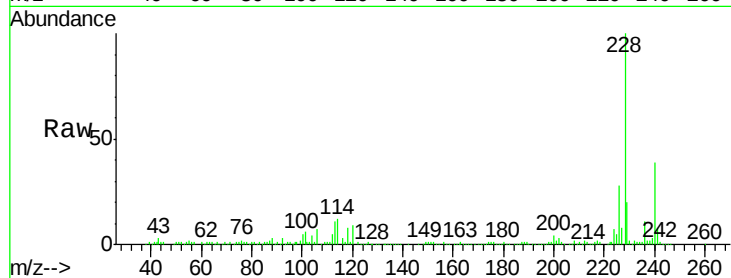
ClientSampleId :

AST-6RE

Tgt	Ion	228	Resp:	287557
Ion	Ratio	100	Lower	Upper
228	100			
226	28.3	22.2	33.2	
229	20.1	15.8	23.6	

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#82

Chrysene

Concen: 6.01 ng

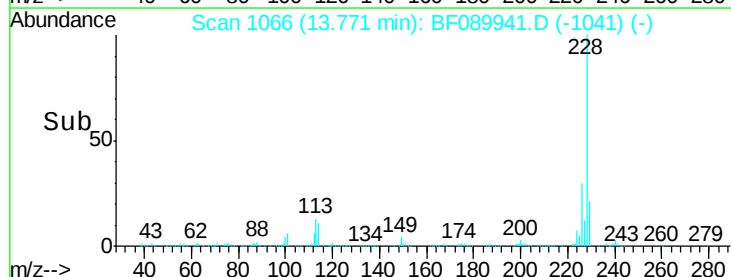
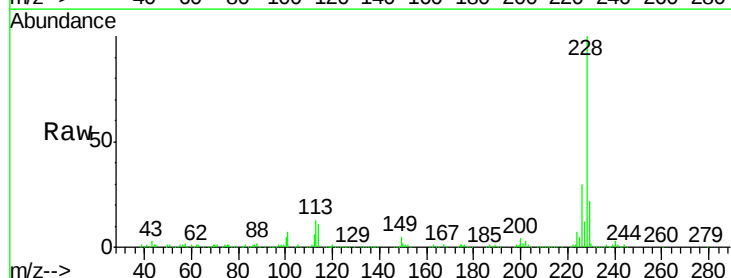
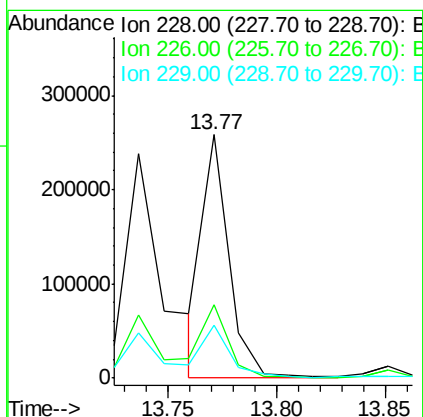
RT: 13.77 min Scan# 1066

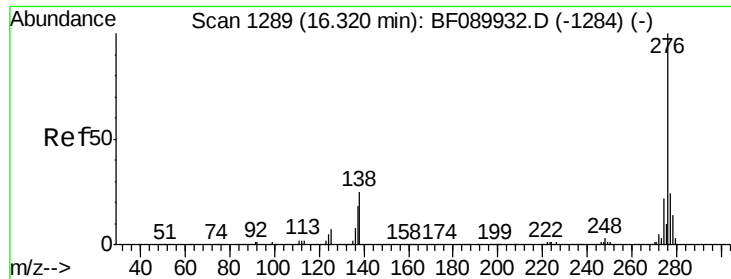
Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Tgt	Ion	228	Resp:	216141
Ion	Ratio	100	Lower	Upper
228	100			
226	30.1	25.2	37.8	
229	21.6	16.2	24.2	





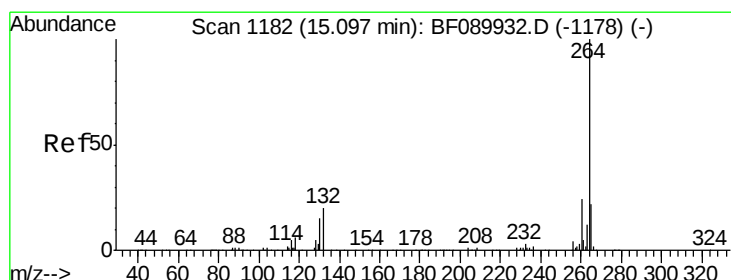
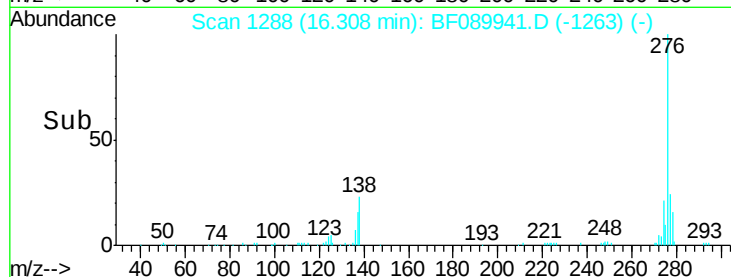
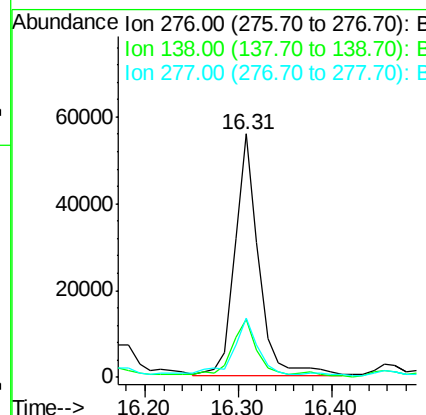
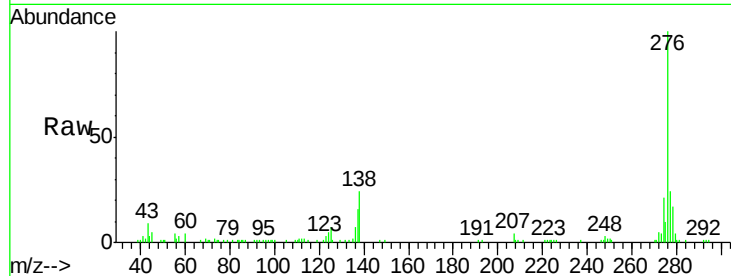
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.75 ng
RT: 16.31 min Scan# 1288
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.8	22.6	34.0
277	27.9	20.1	30.1

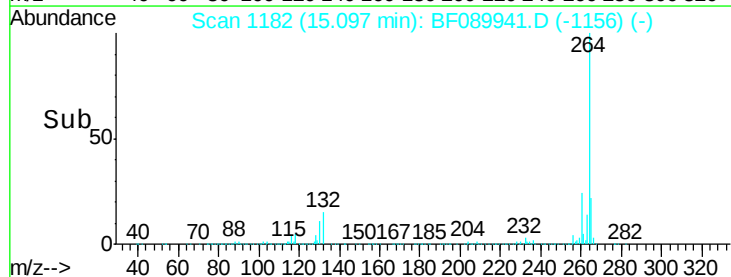
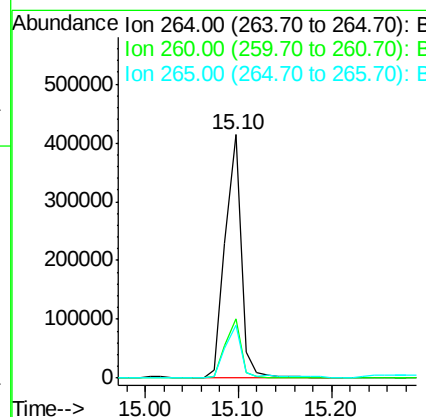
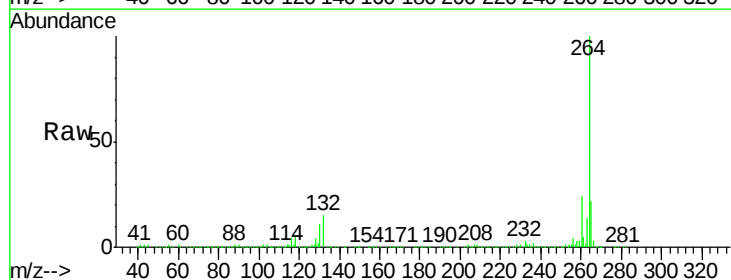
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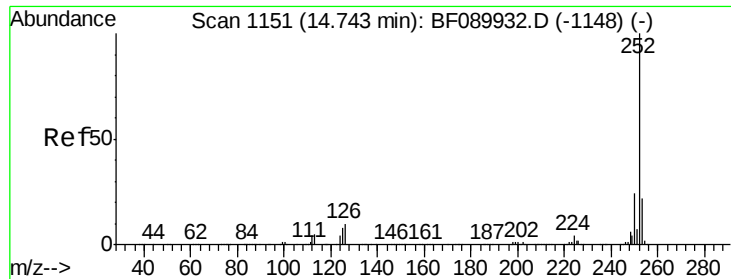
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.10 min Scan# 1182
Delta R.T. 0.00 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.0
265	21.9	17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 7.39 ng m

RT: 14.73 min Scan# 1150

Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Instrument :

BNA_F

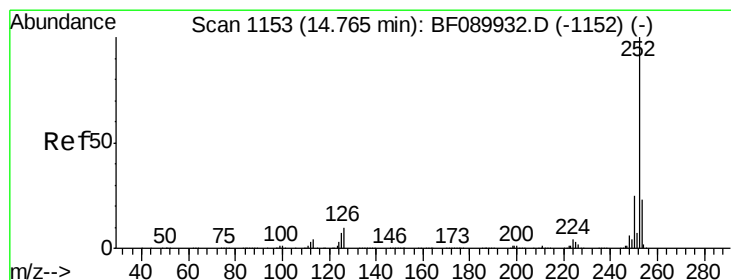
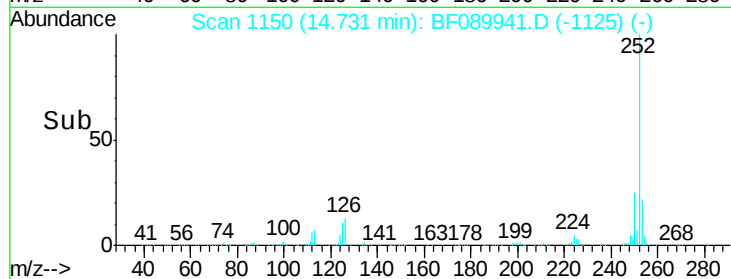
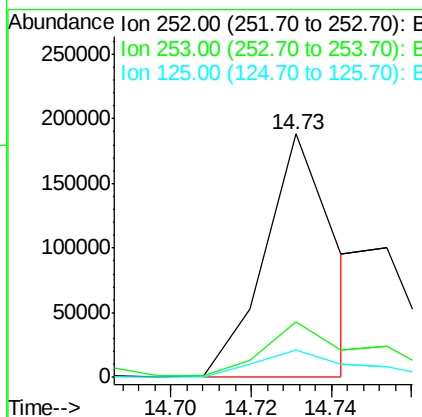
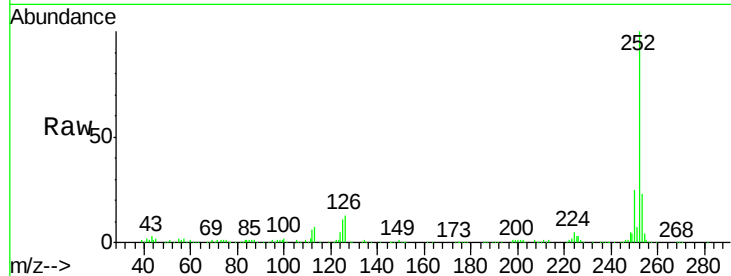
ClientSampleId :

AST-6RE

Tgt Ion:	252	Resp:	230595
Ion Ratio		Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.0	5.7	8.5#

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#88

Benzo(k)fluoranthene

Concen: 3.09 ng m

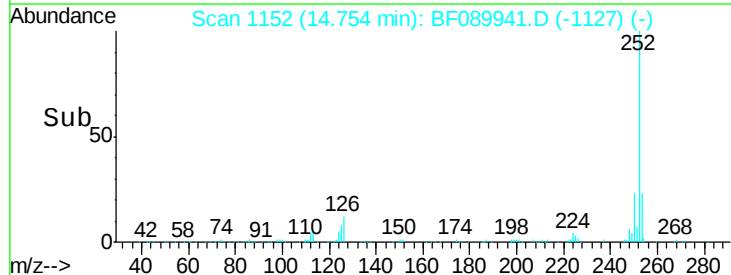
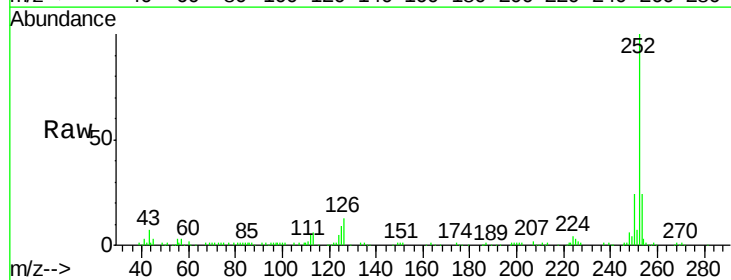
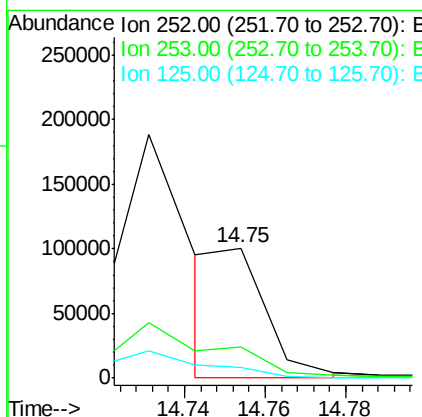
RT: 14.75 min Scan# 1152

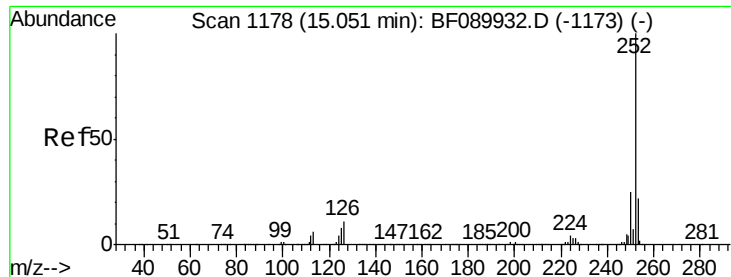
Delta R.T. -0.01 min

Lab File: BF089941.D

Acq: 31 Aug 2016 10:55

Tgt Ion:	252	Resp:	81756
Ion Ratio		Lower	Upper
252	100		
253	23.8	17.8	26.8
125	8.6	7.3	10.9





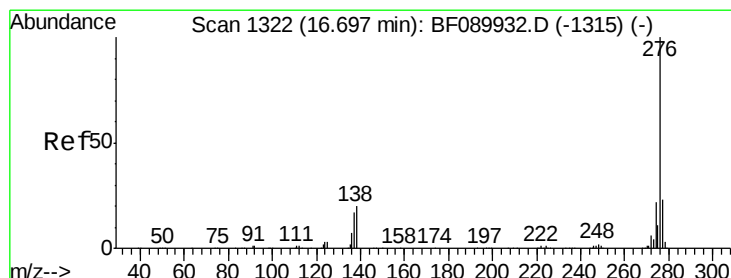
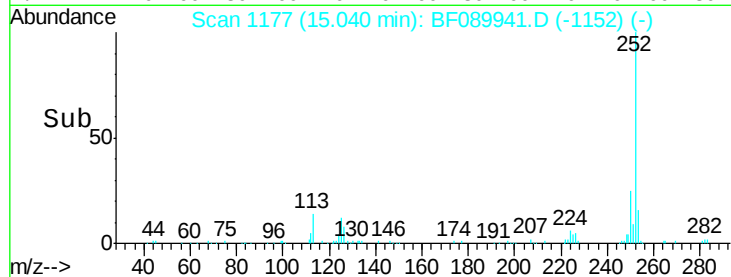
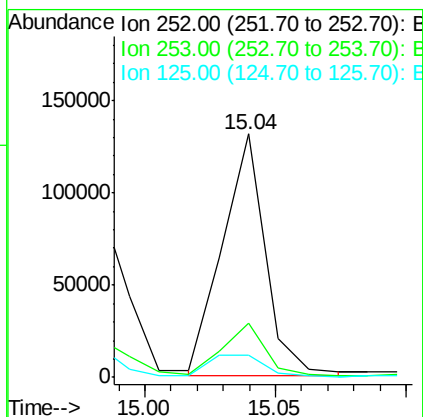
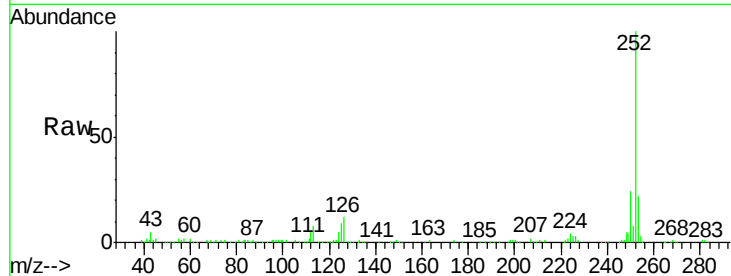
#89
Benzo(a)pyrene
Concen: 5.68 ng
RT: 15.04 min Scan# 1177
Delta R.T. -0.01 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Instrument :
BNA_F
ClientSampleId :
AST-6RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.0	17.5	26.3
125	9.3	6.3	9.5

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#91
Benzo(g,h,i)perylene
Concen: 4.71 ng
RT: 16.67 min Scan# 1320
Delta R.T. -0.02 min
Lab File: BF089941.D
Acq: 31 Aug 2016 10:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	23.7	19.0	28.4
138	21.5	16.4	24.6

