

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042916\
 Data File : BF086505.D
 Acq On : 29 Apr 2016 21:24
 Operator : UM/SJ
 Sample : H2757-04
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B4(8-10)

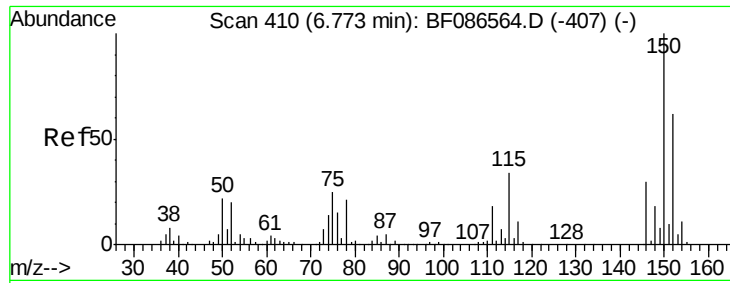
Manual Integrations
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Quant Time: Apr 30 01:51:59 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 27 14:20:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	154842	20.00	ng	-0.03
21) Naphthalene-d8	8.06	136	661303	20.00	ng	-0.03
38) Acenaphthene-d10	9.81	164	273555	20.00	ng	-0.03
63) Phenanthrene-d10	11.30	188	435603	20.00	ng	-0.02
75) Chrysene-d12	13.93	240	307003	20.00	ng	-0.03
86) Perylene-d12	15.33	264	264105	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	1202056	133.90	ng	-0.01
7) Phenol-d6	6.42	99	1563191	124.77	ng	-0.02
23) Nitrobenzene-d5	7.34	82	1076615	87.75	ng	-0.03
41) 2,4,6-Tribromophenol	10.60	330	271086	93.97	ng	-0.03
44) 2-Fluorobiphenyl	9.15	172	1674503	115.02	ng	-0.02
78) Terphenyl-d14	12.89	244	1078194	77.37	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.09	128	69861	2.08	ng	98
49) Dimethylphthalate	9.54	163	368686	17.90	ng	99
51) Acenaphthene	9.85	154	70764	4.05	ng	98
54) Dibenzofuran	10.02	168	51362	2.35	ng	# 97
57) Fluorene	10.36	166	66497	3.51	ng	97
70) Phenanthrene	11.32	178	863887	37.79	ng	100
71) Anthracene	11.37	178	223385	9.16	ng	99
72) Carbazole	11.53	167	54958	2.54	ng	# 95
74) Fluoranthene	12.51	202	962474	41.71	ng	95
77) Pyrene	12.74	202	921734	41.67	ng	99
80) Benzo(a)anthracene	13.92	228	410328	25.07	ng	98
82) Chrysene	13.95	228	297436	16.72	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	153833	11.67	ng	93
87) Benzo(b)fluoranthene	14.93	252	341716m	21.99	ng	
88) Benzo(k)fluoranthene	14.95	252	165710m	10.23	ng	
89) Benzo(a)pyrene	15.27	252	278491	18.99	ng	# 95
91) Benzo(a,h,i)perylene	17.07	276	149183	12.40	ng	94

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



#1

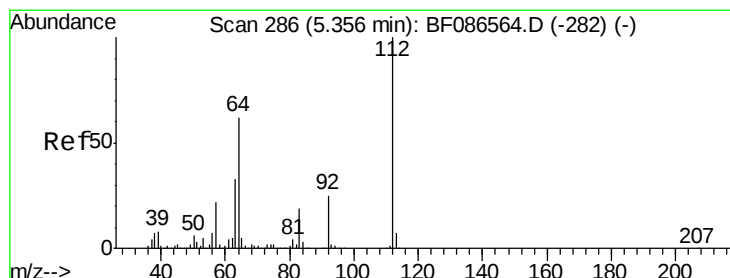
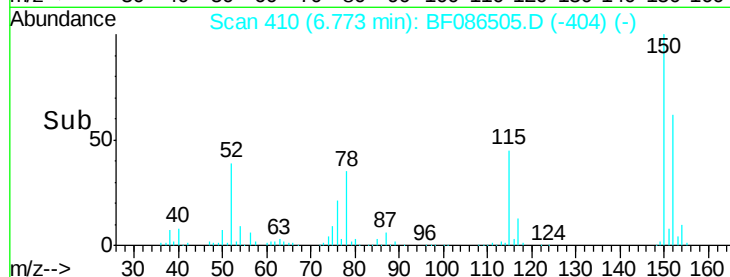
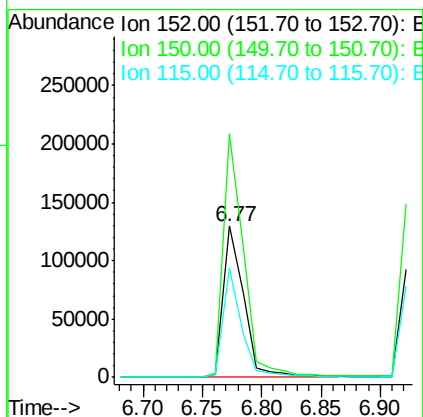
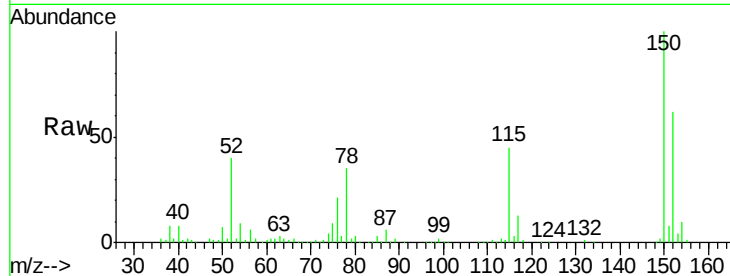
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.77 min Scan# 410
Delta R.T. -0.03 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Instrument :
BNA_F
ClientSampleId :
B4(8-10)

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.0	125.8	188.6
115	72.6	51.5	77.3

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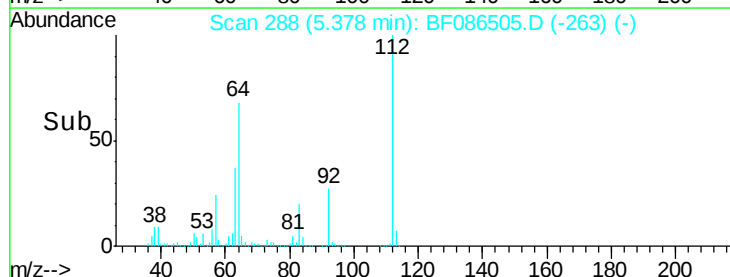
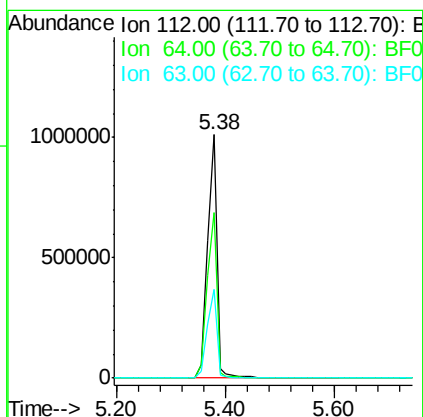
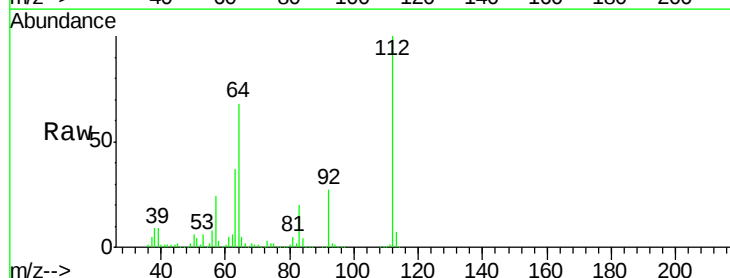
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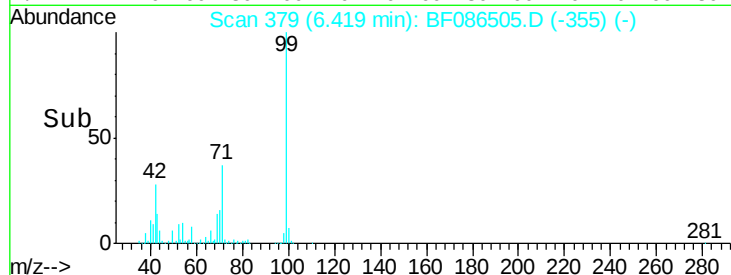
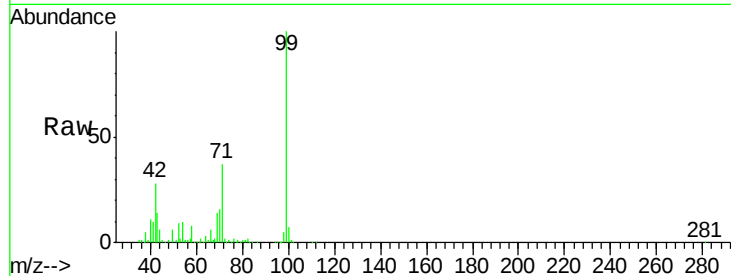
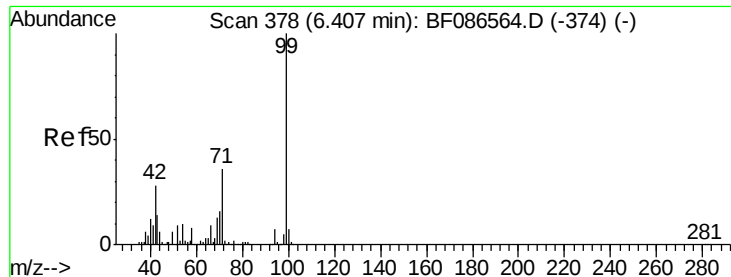


#5

2-Fluorophenol
Concen: 133.90 ng
RT: 5.38 min Scan# 288
Delta R.T. -0.01 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.1	52.1	78.1
63	36.6	25.7	38.5





#7

Phenol-d6

Concen: 124.77 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Tot Ion: 99 Resp: 1563191

Ion Ratio Lower Upper

99 100

42 28.1 13.6 20.4#

71 37.0 24.6 36.8#

Instrument :

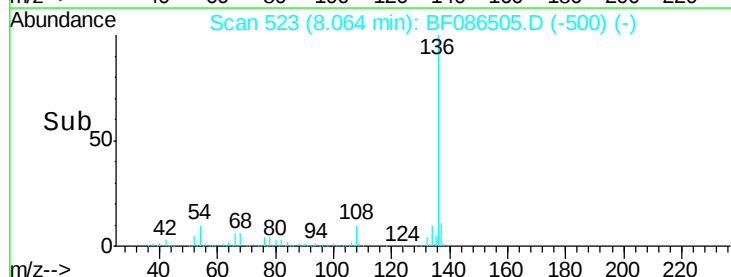
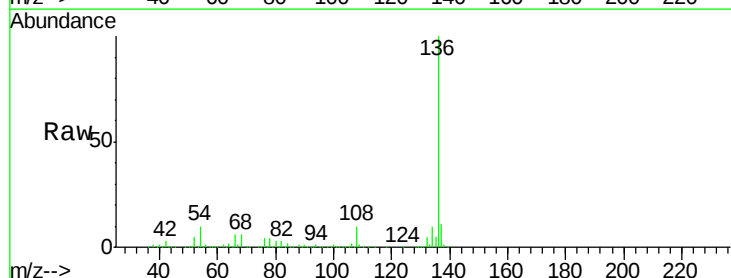
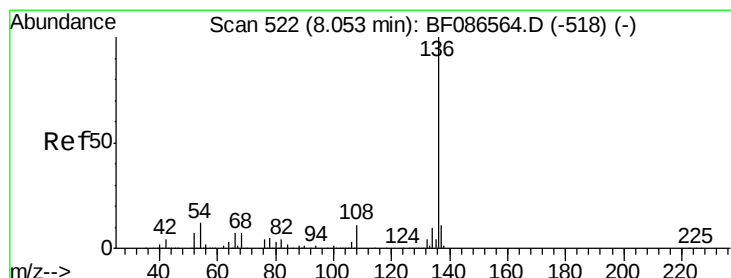
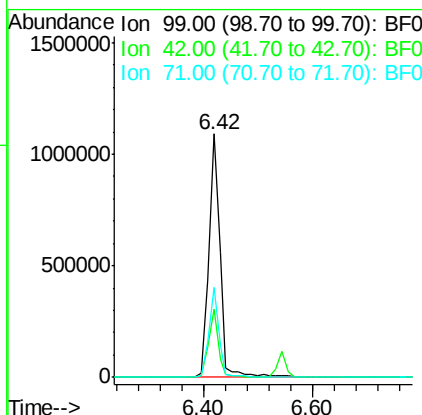
BNA_F

ClientSampled :

B4(8-10)

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Tgt Ion: 136 Resp: 661303

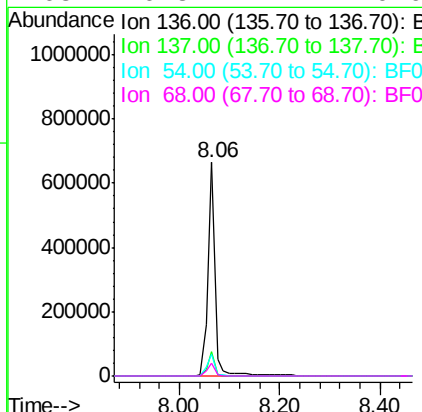
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 10.4 5.0 7.4#

68 6.3 4.4 6.6





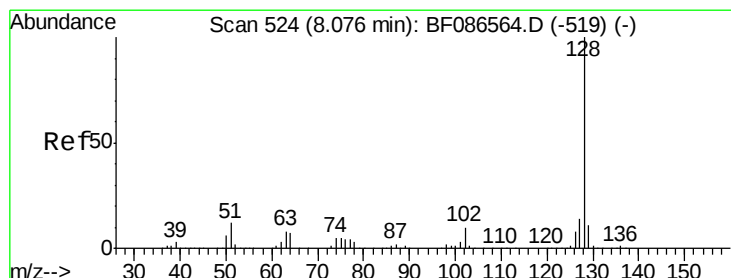
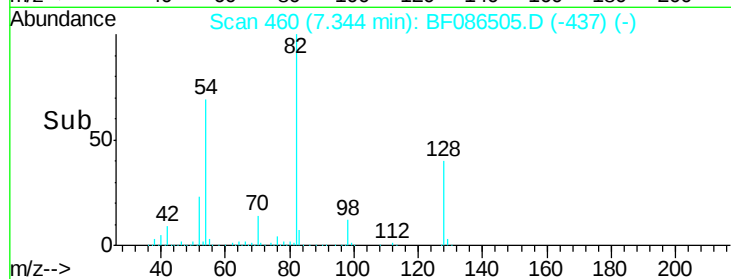
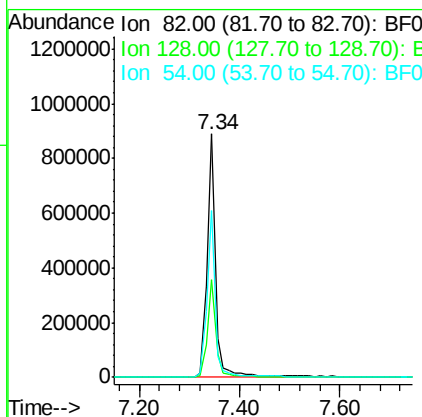
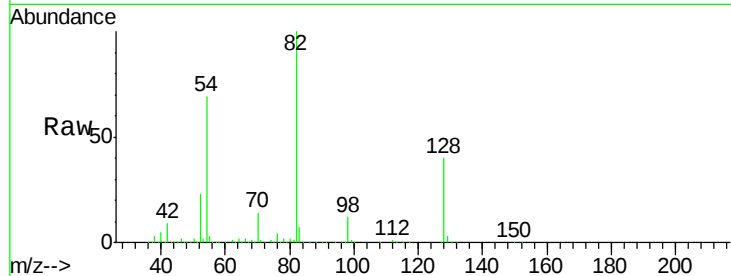
#23
Nitrobenzene-d5
Concen: 87.75 ng
RT: 7.34 min Scan# 460
Delta R.T. -0.03 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Instrument :
BNA_F
ClientSampleId :
B4(8-10)

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.2	40.6	61.0#
54	68.6	38.1	57.1#

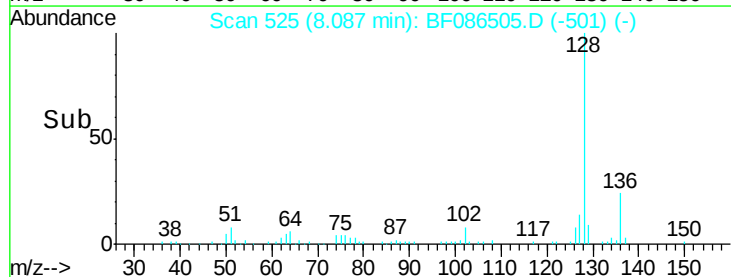
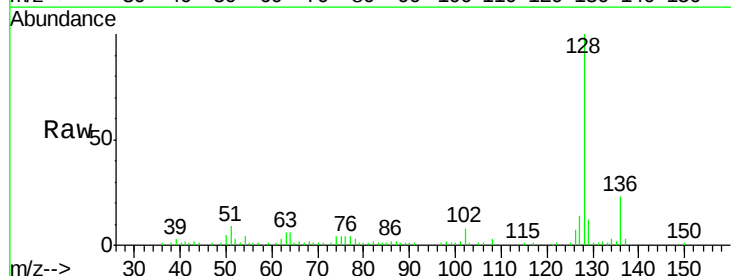
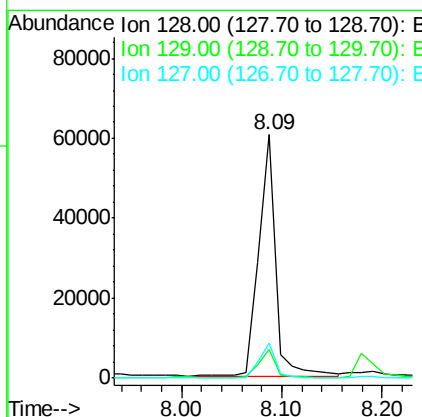
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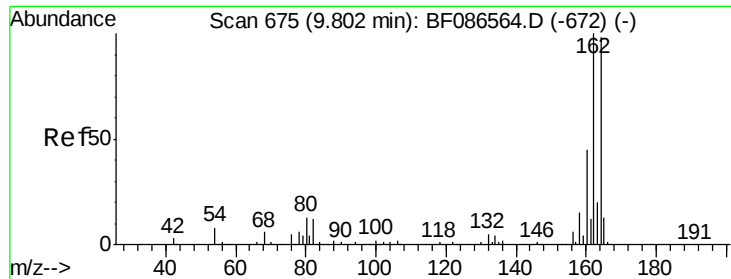
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#31
Naphthalene
Concen: 2.08 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.02 min
Lab File: BF086505.D
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Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.6	13.0
127	14.3	10.8	16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 676

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

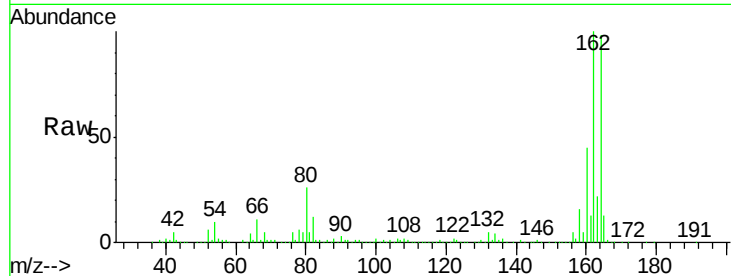
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B4(8-10)

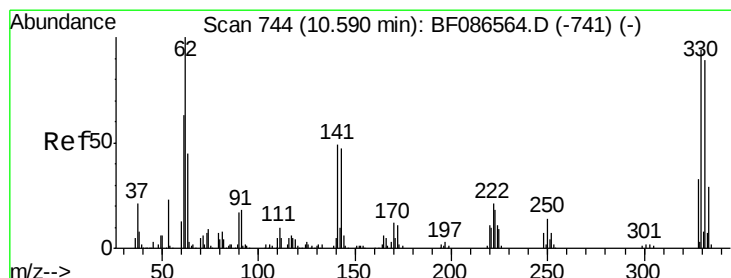
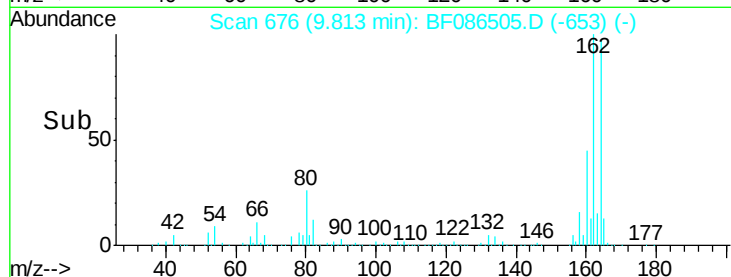
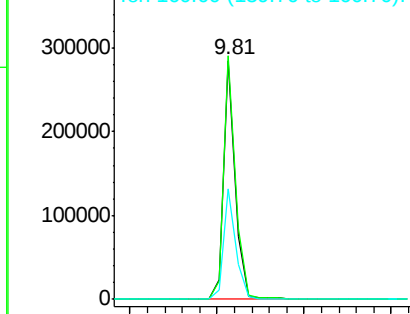
Tot Ion:	164	Resp:	273555
Ion Ratio	Lower	Upper	
164	100		
162	102.0	82.8	124.2
160	46.1	36.9	55.3

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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 93.97 ng

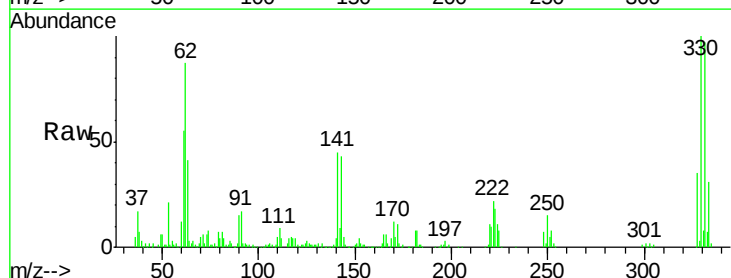
RT: 10.60 min Scan# 745

Delta R.T. -0.03 min

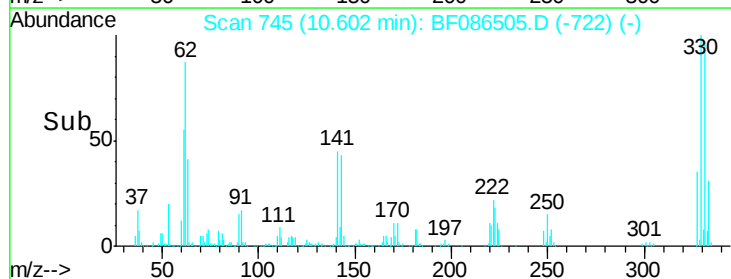
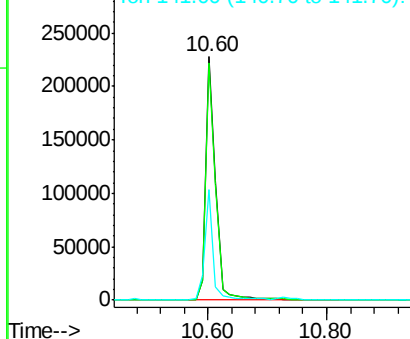
Lab File: BF086505.D

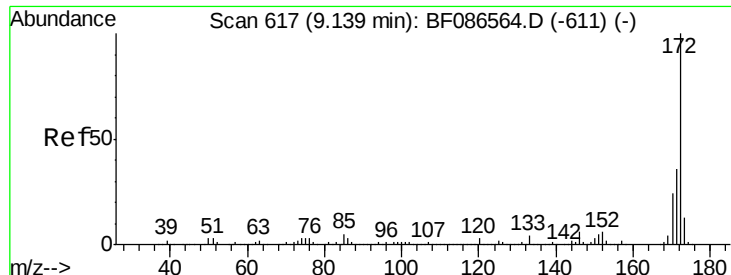
Acq: 29 Apr 2016 21:24

Tgt Ion:	330	Resp:	271086
Ion Ratio	Lower	Upper	
330	100		
332	97.5	79.0	118.4
141	37.8	31.2	46.8



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





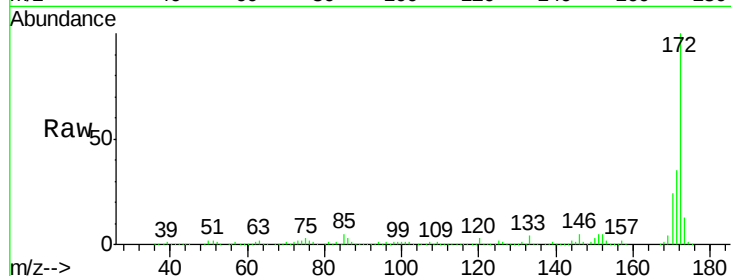
#44
2-Fluorobiphenyl
Concen: 115.02 ng
RT: 9.15 min Scan# 618
Delta R.T. -0.02 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Instrument :
BNA_F
ClientSampleId :
B4(8-10)

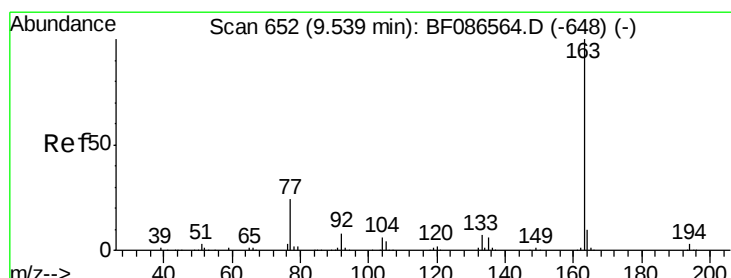
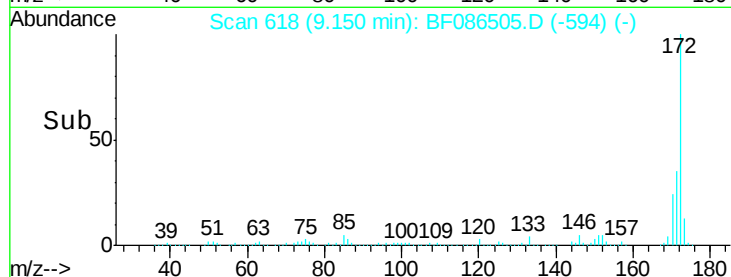
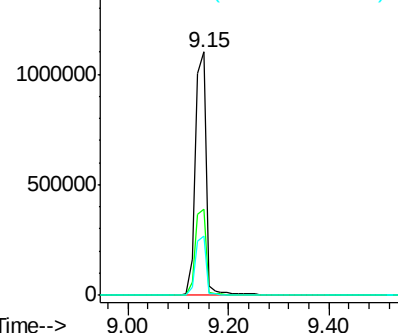
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.6
170	24.2	19.8	29.8

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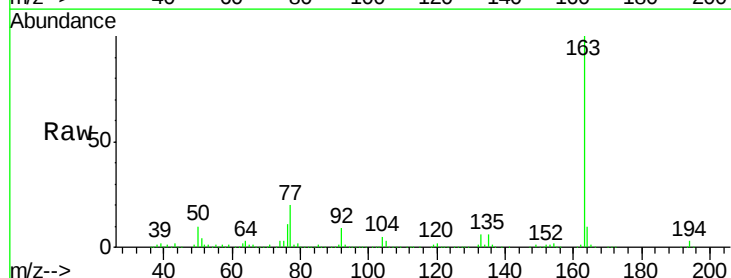


Abundance Ion 172.00 (171.70 to 172.70): E
1500000
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

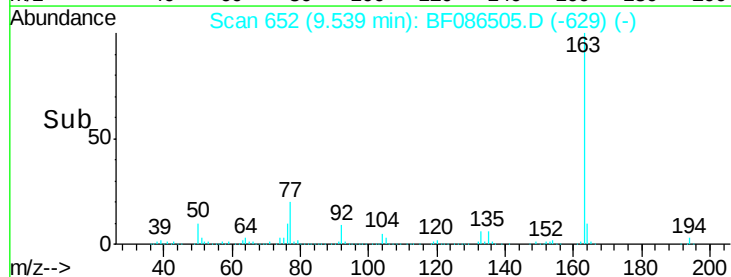
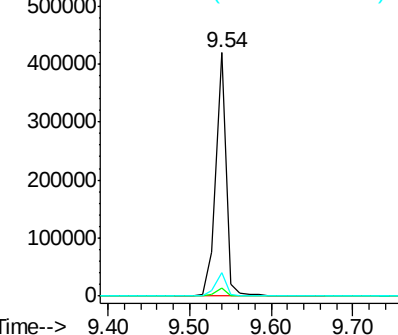


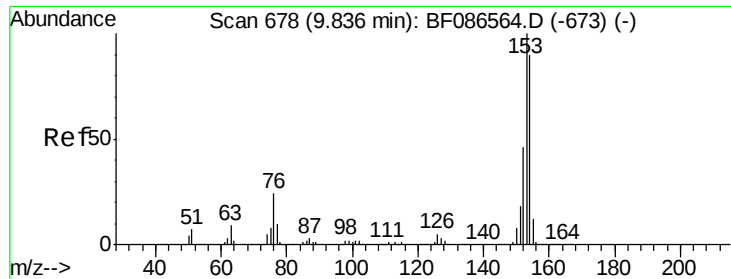
#49
Dimethylphthalate
Concen: 17.90 ng
RT: 9.54 min Scan# 652
Delta R.T. -0.03 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.6	4.0
164	9.8	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
500000
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 4.05 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

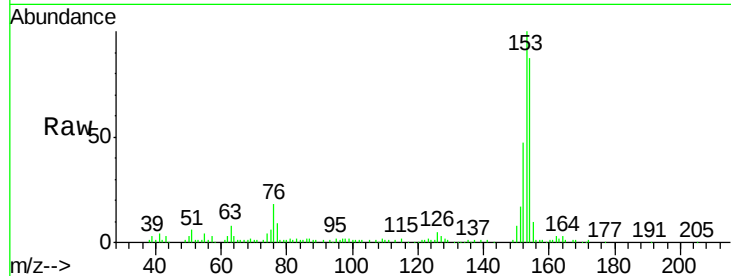
ClientSampleId :

B4(8-10)

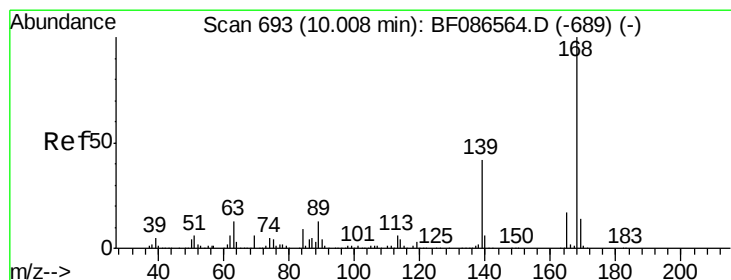
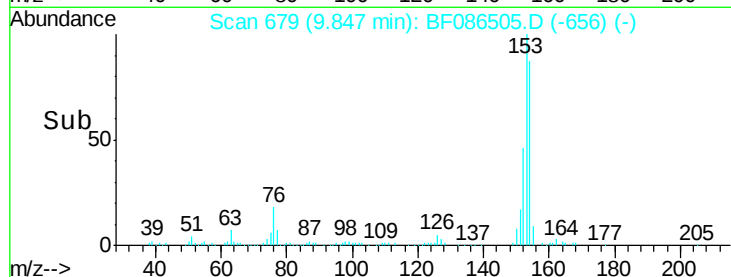
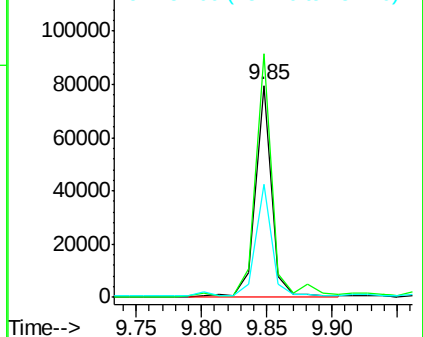
Tot Ion:	154	Resp:	70764
Ion Ratio	Lower	Upper	
154	100		
153	114.7	89.8	134.6
152	53.4	43.4	65.0

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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: 2.35 ng

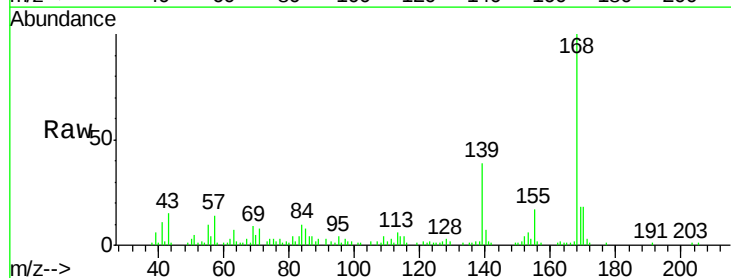
RT: 10.02 min Scan# 694

Delta R.T. -0.03 min

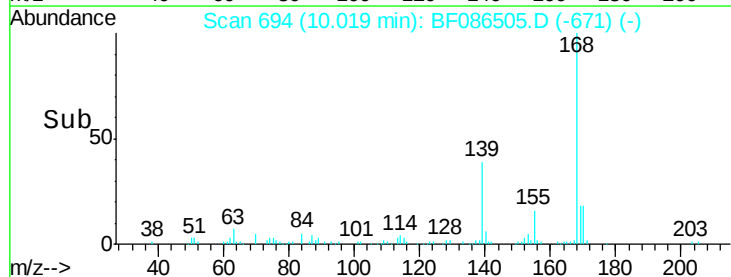
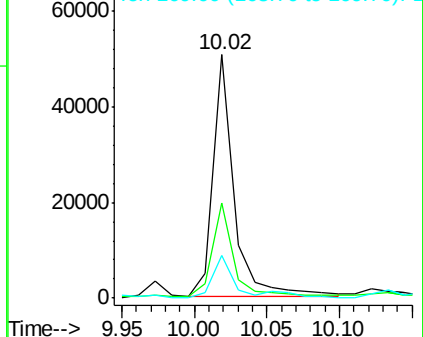
Lab File: BF086505.D

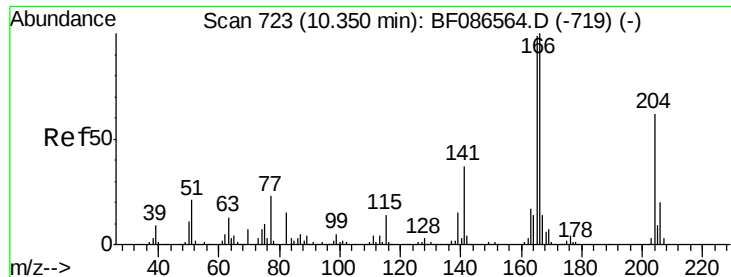
Acq: 29 Apr 2016 21:24

Tgt Ion:	168	Resp:	51362
Ion Ratio	Lower	Upper	
168	100		
139	39.1	31.4	47.0
169	17.7	10.7	16.1#



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: 3.51 ng

RT: 10.36 min Scan# 724

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

ClientSampleId :

B4(8-10)

Tot Ion:166 Resp: 66497

Ion Ratio Lower Upper

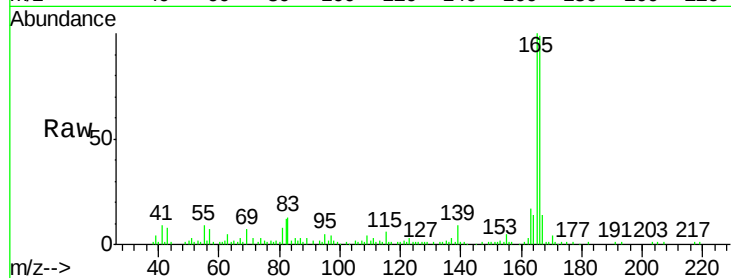
166 100

165 101.3 79.0 118.6

167 14.4 10.6 15.8

Manual Integrations
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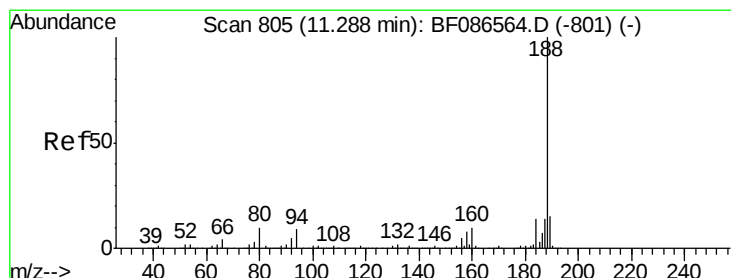
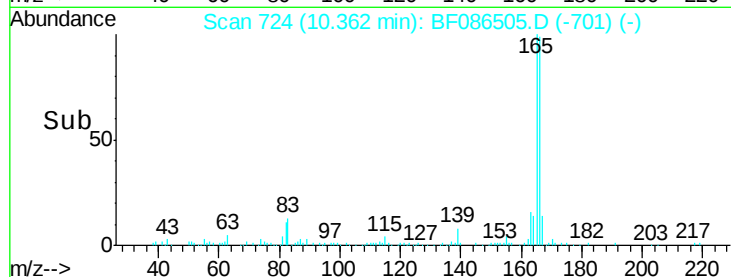
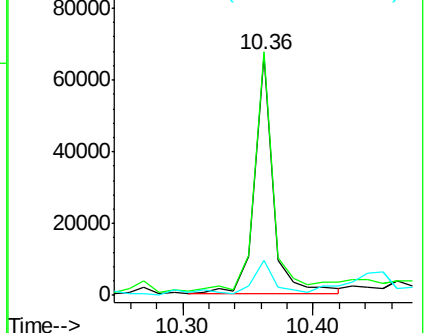
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Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.30 min Scan# 806

Delta R.T. -0.02 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

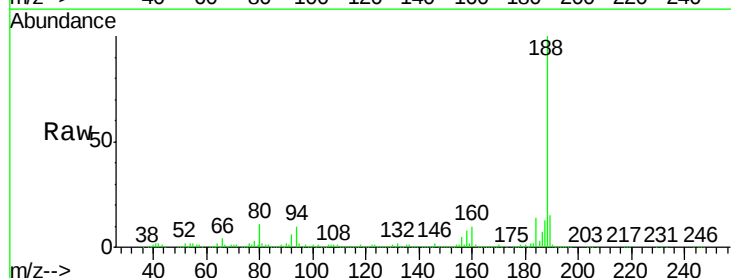
Tgt Ion:188 Resp: 435603

Ion Ratio Lower Upper

188 100

94 10.3 6.8 10.2#

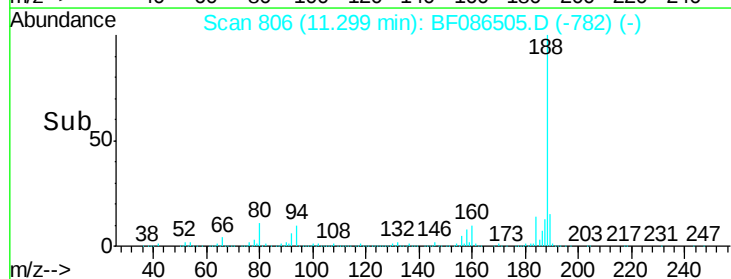
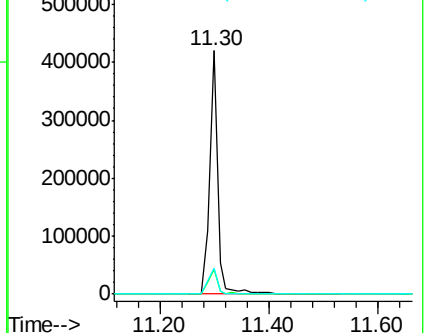
80 10.7 7.1 10.7#

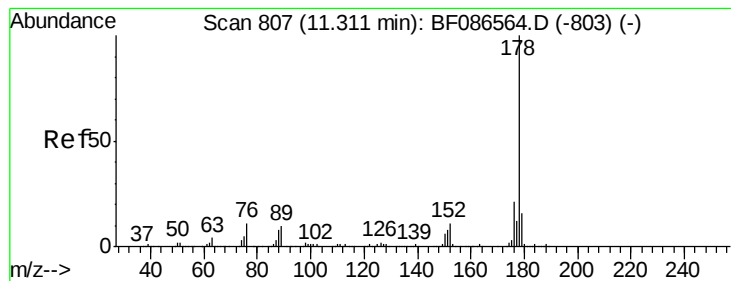


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 37.79 ng

RT: 11.32 min Scan# 808

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

ClientSampleId :

B4(8-10)

Tot Ion:178 Resp: 863887

Ion Ratio Lower Upper

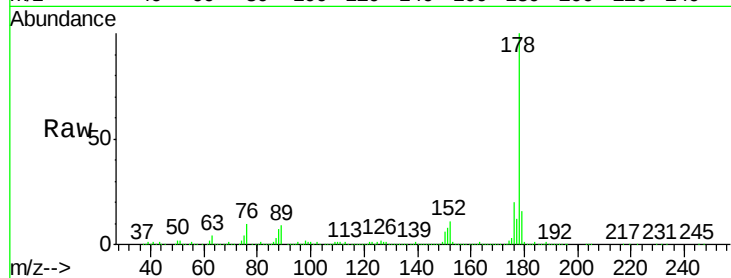
178 100

176 19.8 16.0 24.0

179 15.8 12.6 18.8

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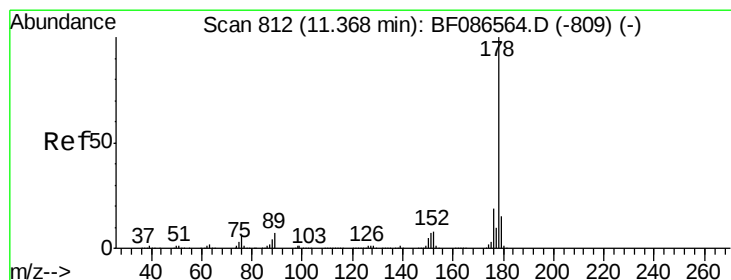
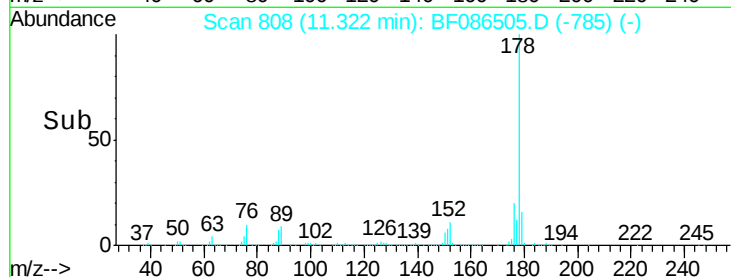
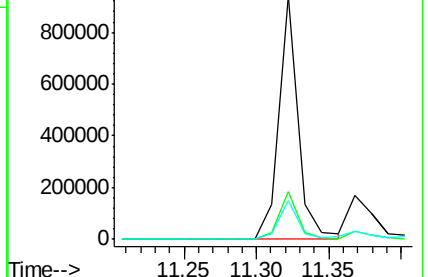
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 9.16 ng

RT: 11.37 min Scan# 812

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

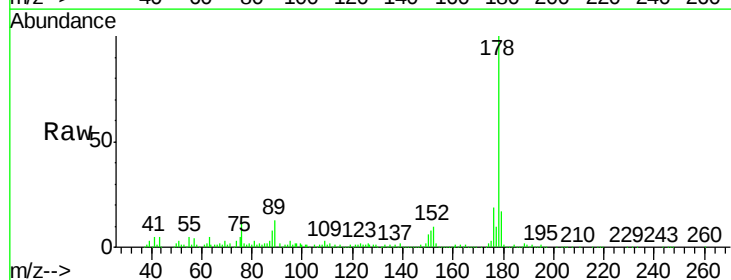
Tgt Ion:178 Resp: 223385

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

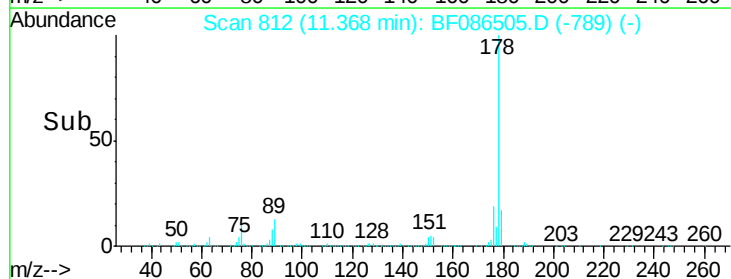
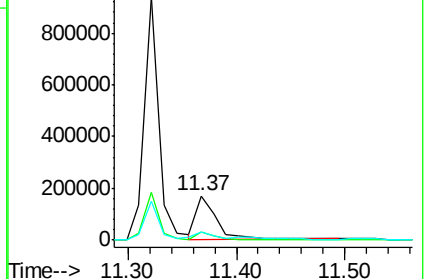
179 17.0 12.7 19.1

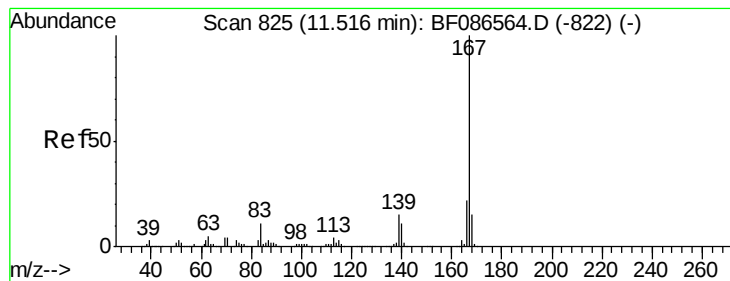


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.54 ng

RT: 11.53 min Scan# 826

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

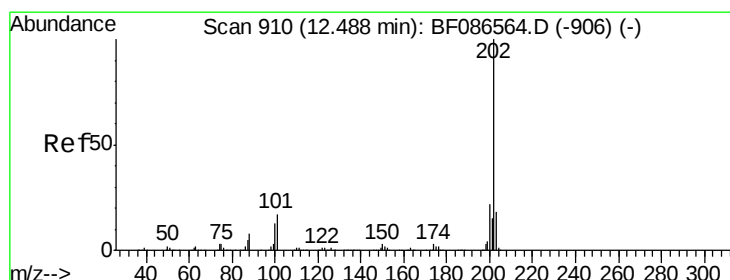
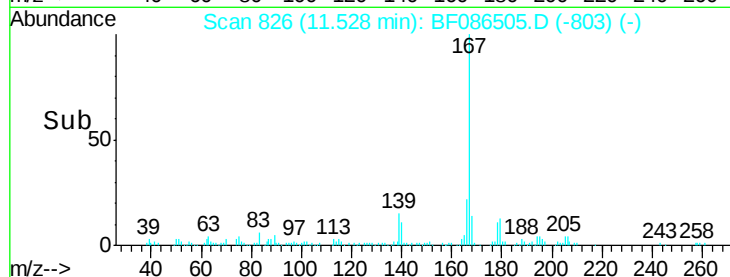
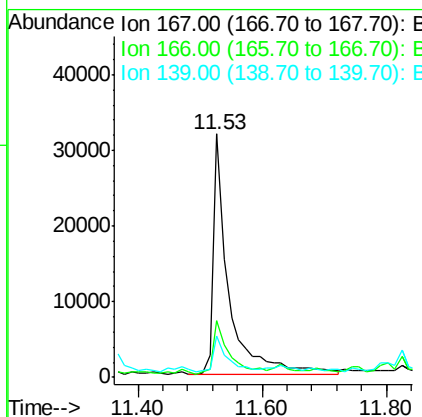
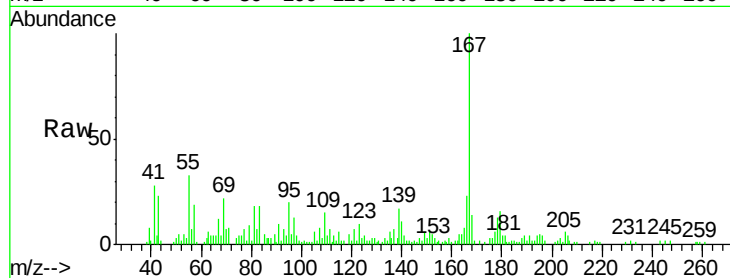
ClientSampleId :

B4(8-10)

Tot Ion:	167	Resp:	54958
Ion Ratio	Lower	Upper	
167	100		
166	23.4	17.7	26.5
139	16.8	10.8	16.2#

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#74

Fluoranthene

Concen: 41.71 ng

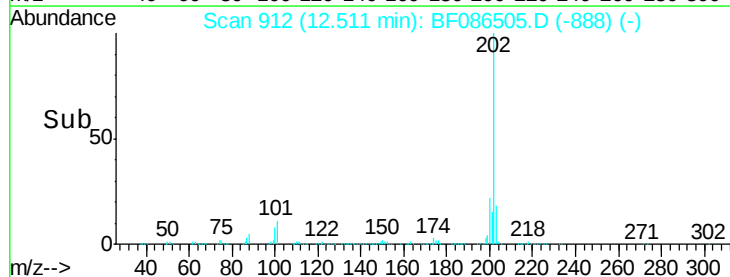
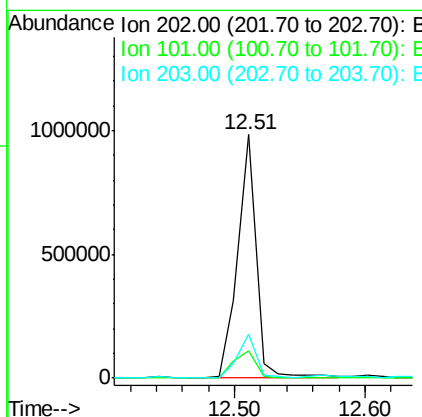
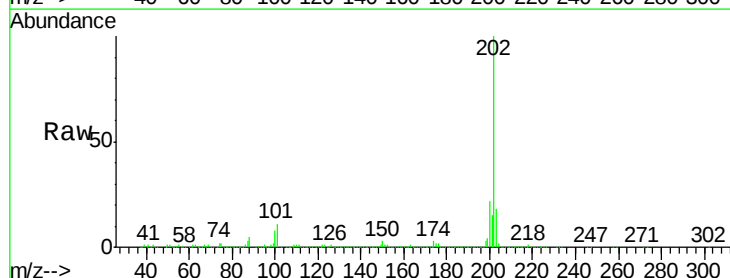
RT: 12.51 min Scan# 912

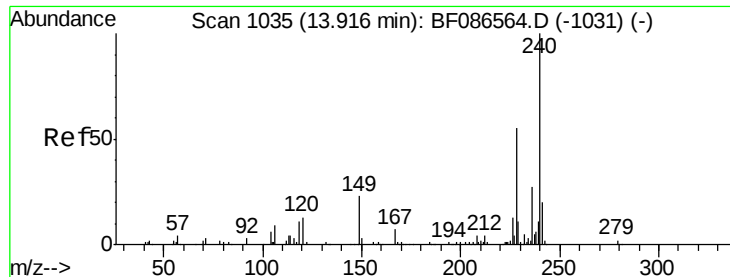
Delta R.T. -0.02 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Tgt Ion:	202	Resp:	962474
Ion Ratio	Lower	Upper	
202	100		
101	11.0	0.0	35.4
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.93 min Scan# 1036

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

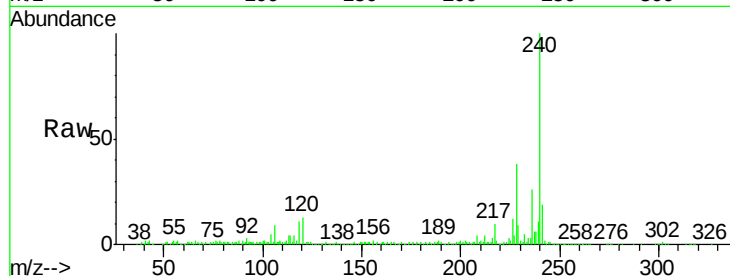
ClientSampleId :

B4(8-10)

Tot Ion:	240	Resp:	307003
Ion Ratio	Lower	Upper	
240	100		
120	13.3	11.2	16.8
236	25.8	21.2	31.8

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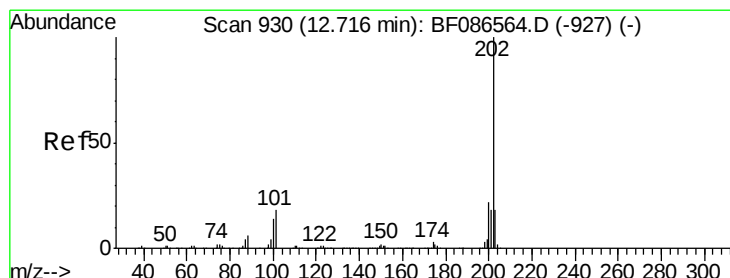
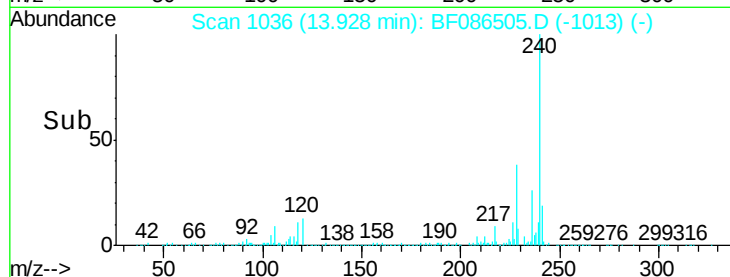
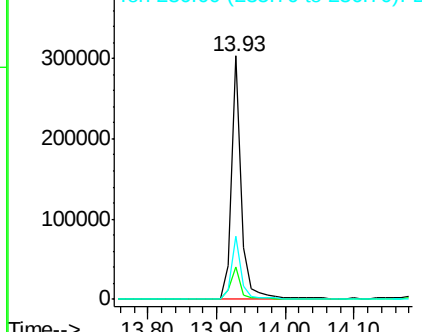
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 41.67 ng

RT: 12.74 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF086505.D

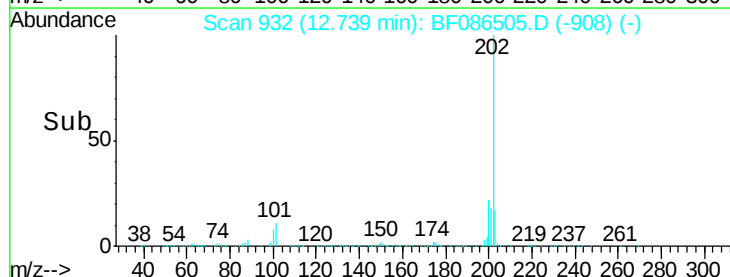
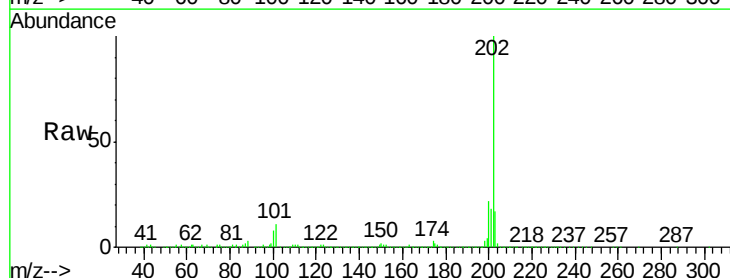
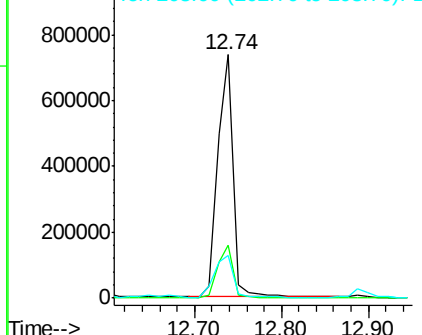
Acq: 29 Apr 2016 21:24

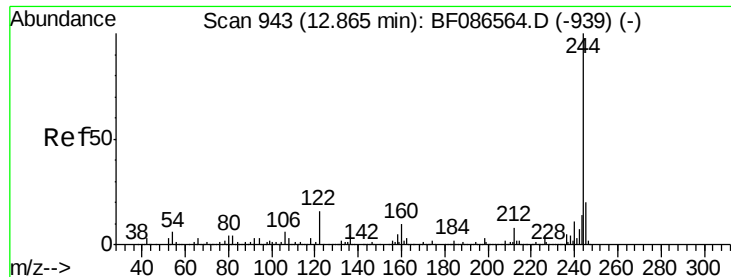
Tgt Ion:	202	Resp:	921734
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.7	26.5
203	17.5	14.2	21.4

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: 77.37 ng

RT: 12.89 min Scan# 945

Delta R.T. -0.02 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

ClientSampleId :

B4(8-10)

Tot Ion:244 Resp: 1078194

Ion Ratio Lower Upper

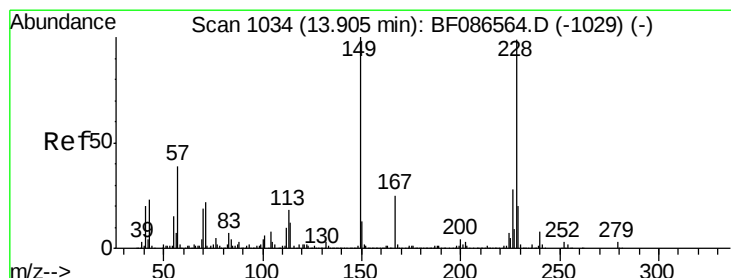
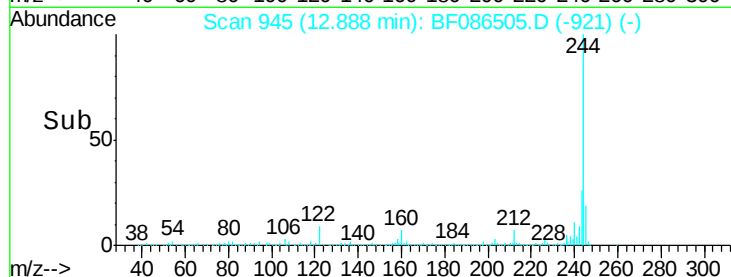
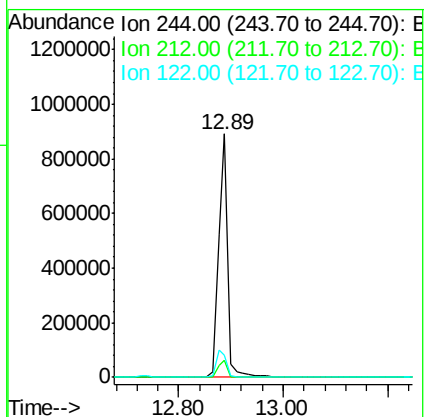
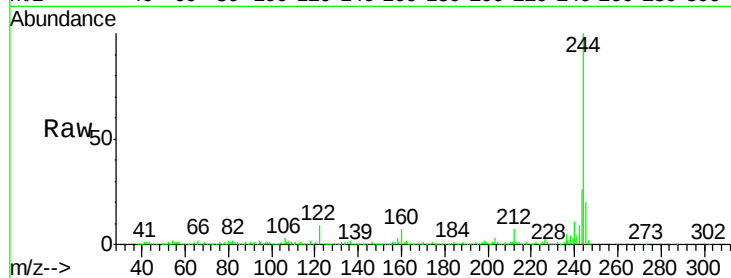
244 100

212 7.1 6.2 9.2

122 9.2 12.0 18.0#

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#80

Benzo(a)anthracene

Concen: 25.07 ng

RT: 13.92 min Scan# 1035

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

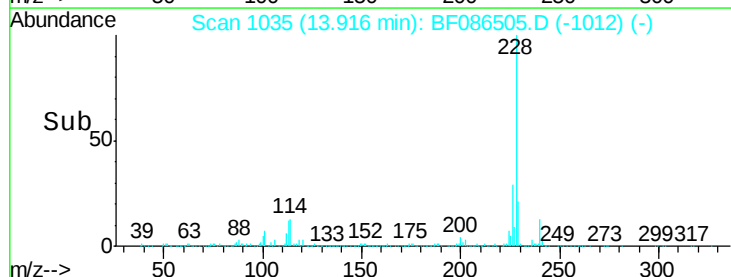
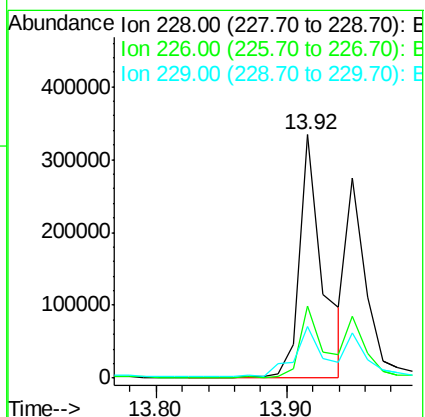
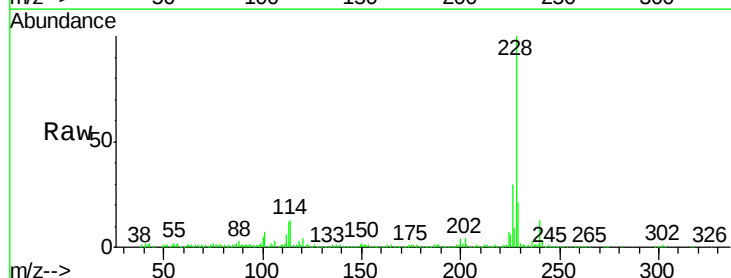
Tgt Ion:228 Resp: 410328

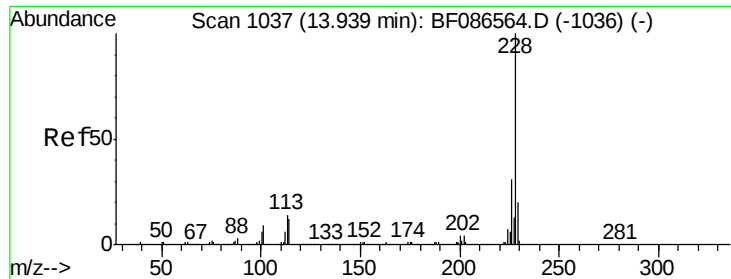
Ion Ratio Lower Upper

228 100

226 29.7 22.5 33.7

229 21.1 16.6 25.0





#82

Chrysene

Concen: 16.72 ng

RT: 13.95 min Scan# 1038

Delta R.T. -0.03 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

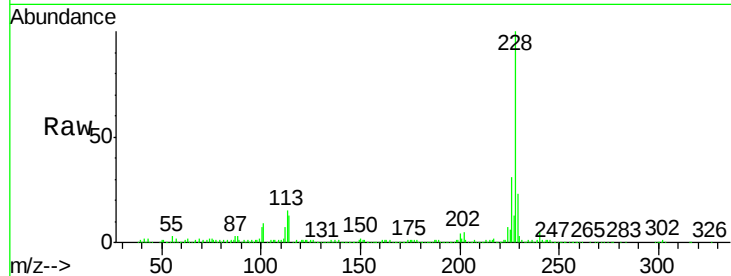
ClientSampled :

B4(8-10)

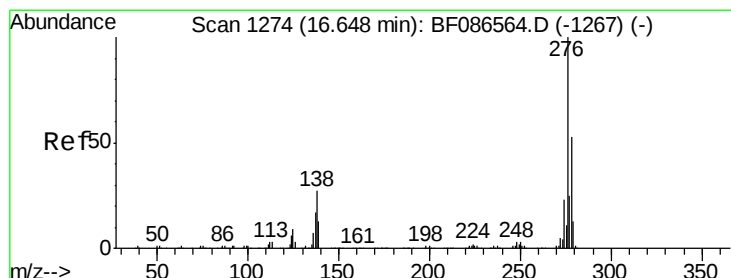
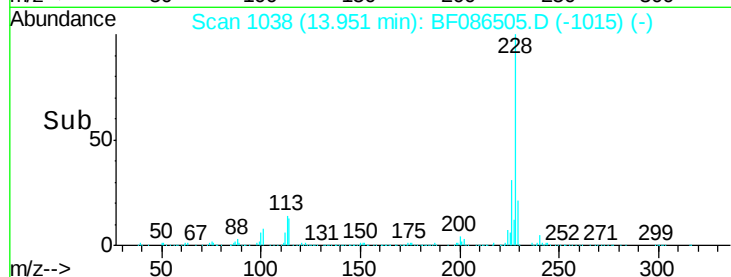
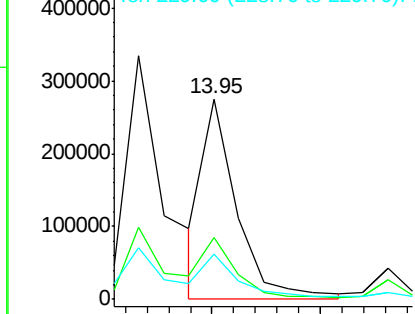
Tot Ion:	228	Resp:	297436
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.4	36.6
229	22.6	15.8	23.8

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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



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.67 ng

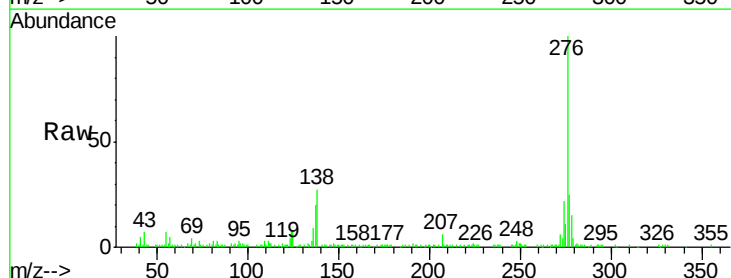
RT: 16.66 min Scan# 1275

Delta R.T. -0.06 min

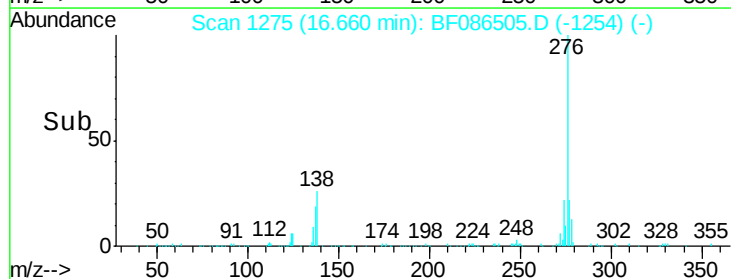
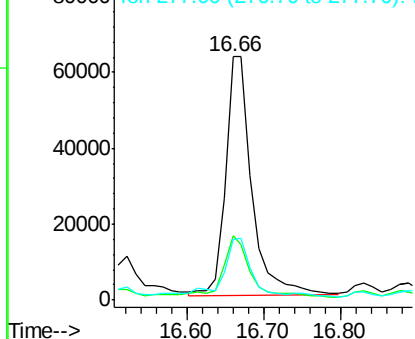
Lab File: BF086505.D

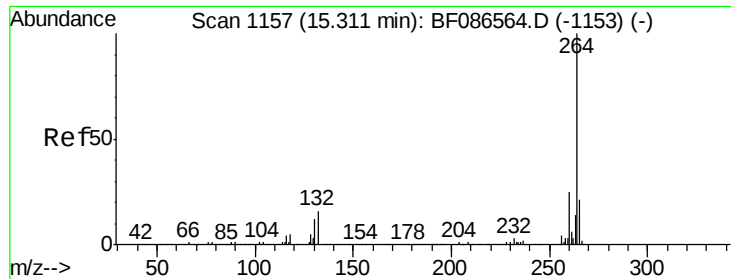
Acq: 29 Apr 2016 21:24

Tgt Ion:	276	Resp:	153833
Ion Ratio	Lower	Upper	
276	100		
138	26.6	25.6	38.4
277	23.5	20.5	30.7



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.33 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

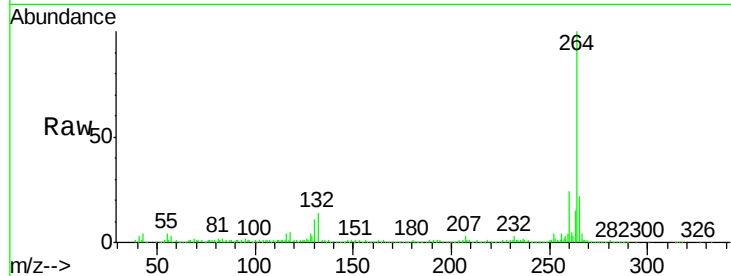
ClientSampleId :

B4(8-10)

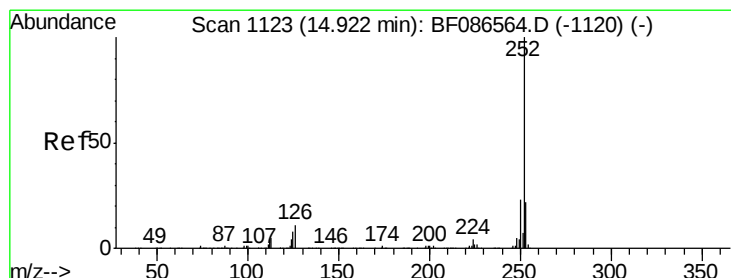
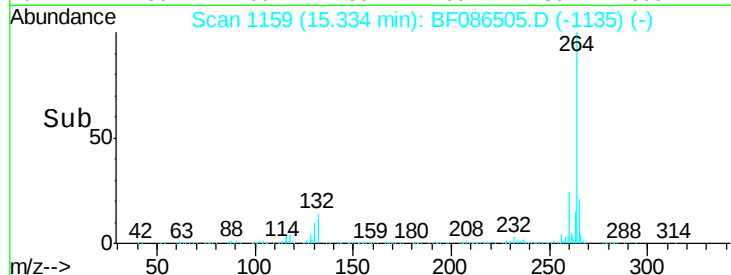
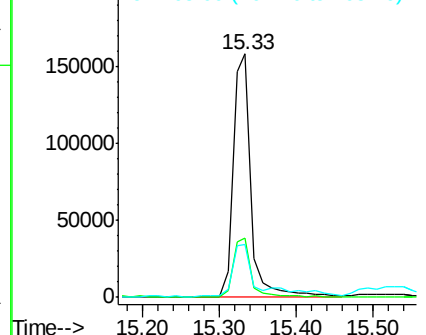
Tot Ion:	264	Resp:	264105
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.5	29.3
265	21.5	17.3	25.9

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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: 21.99 ng m

RT: 14.93 min Scan# 1124

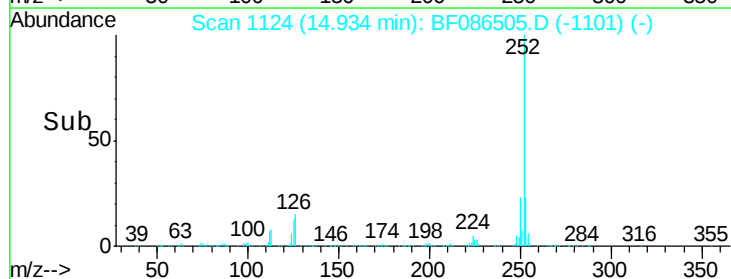
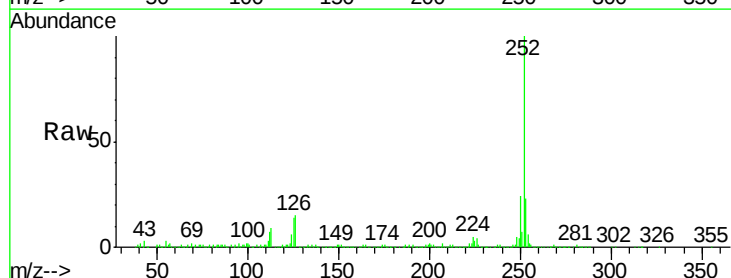
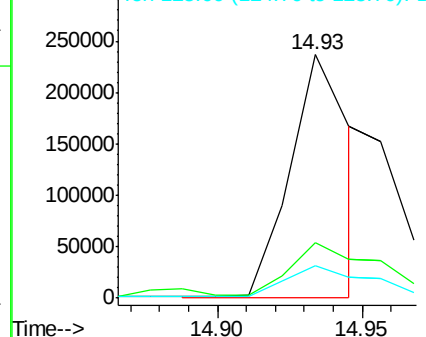
Delta R.T. -0.03 min

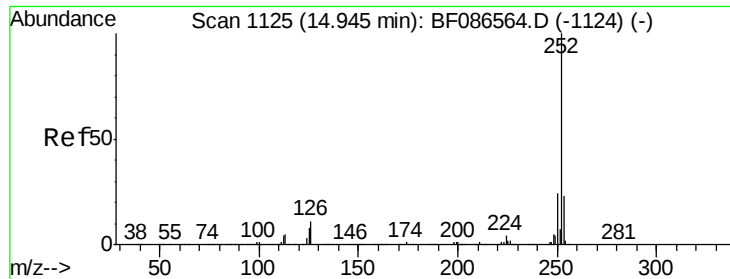
Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Tgt Ion:	252	Resp:	341716
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.8	26.6
125	13.5	11.4	17.0

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





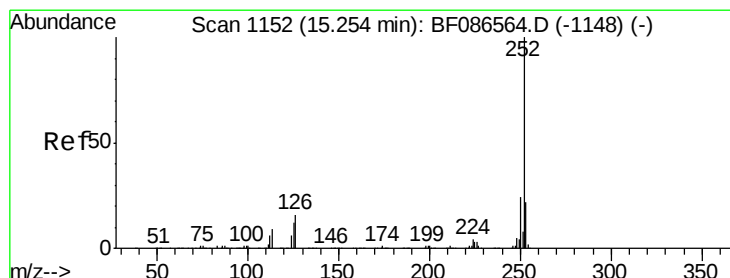
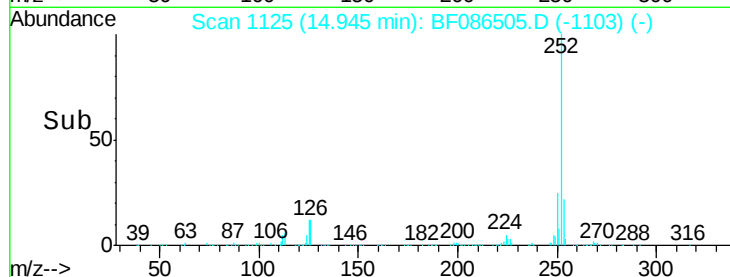
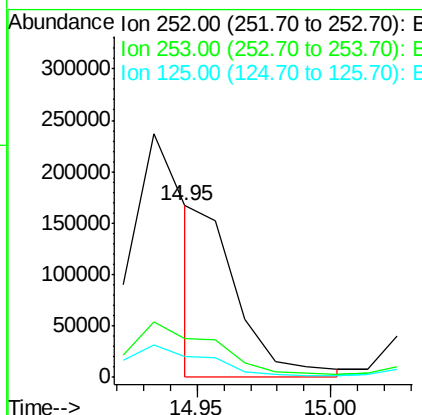
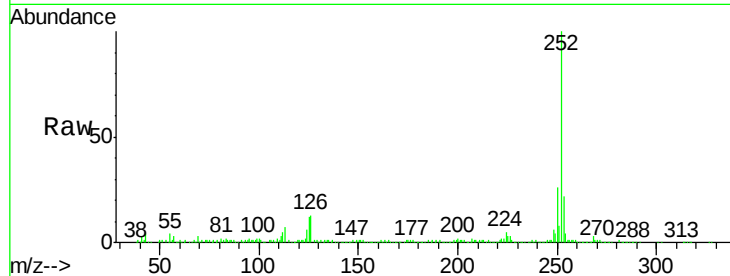
#88
Benzo(k)fluoranthene
Concen: 10.23 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.05 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Instrument :
BNA_F
ClientSampleId :
B4(8-10)

Tot Ion	Ratio	Resp	Lower	Upper
252	100	165710		
253	22.5	17.8	26.6	
125	12.4	9.1	13.7	

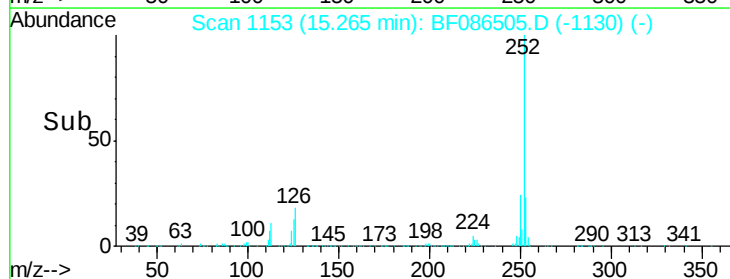
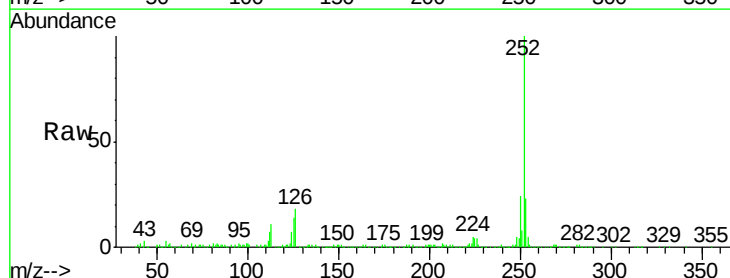
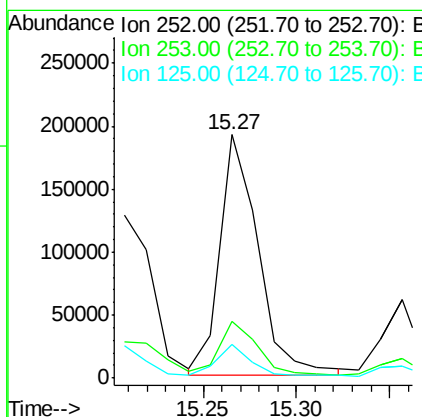
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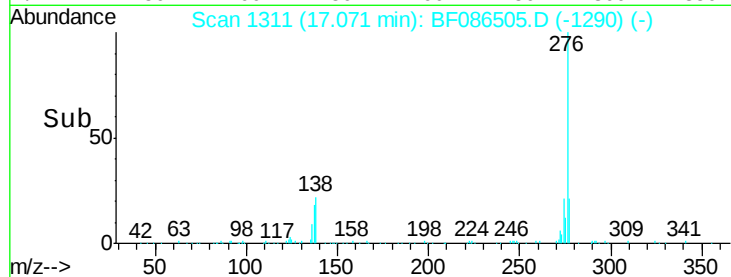
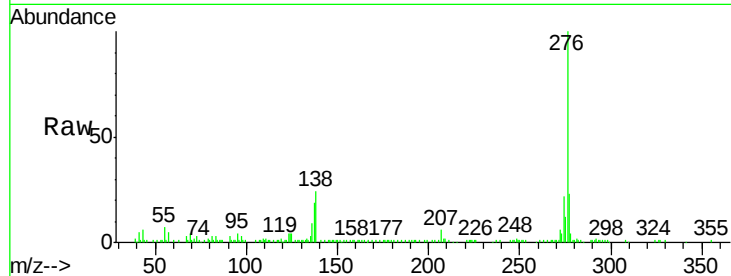
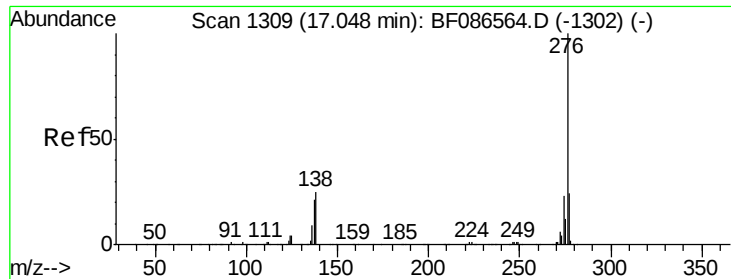
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#89
Benzo(a)pyrene
Concen: 18.99 ng
RT: 15.27 min Scan# 1153
Delta R.T. -0.03 min
Lab File: BF086505.D
Acq: 29 Apr 2016 21:24

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	278491		
253	23.5	17.2	25.8	
125	13.8	9.0	13.6#	





#91

Benzo(a,h,i)perylene

Concen: 12.40 ng

RT: 17.07 min Scan# 1311

Delta R.T. -0.06 min

Lab File: BF086505.D

Acq: 29 Apr 2016 21:24

Instrument :

BNA_F

ClientSampleId :

B4(8-10)

Tot Ion:	276	Resp:	149183
Ion Ratio	Lower	Upper	
276	100		
277	23.5	19.6	29.4
138	24.5	23.6	35.4

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