

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050916\
 Data File : BF086846.D
 Acq On : 10 May 2016 3:19
 Operator : UM/SJ
 Sample : H2895-12
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP8-10.5-12FT

Manual Integrations
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Quant Time: May 10 04:01:16 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	161171	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	671945	20.00	ng	-0.01
38) Acenaphthene-d10	9.72	164	303104	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	518928	20.00	ng	0.00
75) Chrysene-d12	13.84	240	273296	20.00	ng	0.00
86) Perylene-d12	15.22	264	357715	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	1420808	149.29	ng	0.01
7) Phenol-d6	6.35	99	1814315	142.64	ng	-0.01
23) Nitrobenzene-d5	7.26	82	1241797	92.80	ng	0.00
41) 2,4,6-Tribromophenol	10.52	330	450955	140.53	ng	0.00
44) 2-Fluorobiphenyl	9.06	172	1646021	91.27	ng	0.00
78) Terphenyl-d14	12.79	244	1001476	77.75	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.00	128	69767	2.07	ng	98
48) Acenaphthylene	9.58	152	491026	17.67	ng	99
49) Dimethylphthalate	9.46	163	163593	7.07	ng	99
54) Dibenzofuran	9.93	168	89728	4.04	ng	# 93
57) Fluorene	10.27	166	269197	14.23	ng	100
70) Phenanthrene	11.23	178	2434164	87.90	ng	98
71) Anthracene	11.29	178	918653	32.44	ng	99
72) Carbazole	11.45	167	112671	4.63	ng	100
74) Fluoranthene	12.43	202	3707403	130.16	ng	92
77) Pyrene	12.65	202	2897710	138.49	ng	97
80) Benzo(a)anthracene	13.84	228	1685964m	109.89	ng	
82) Chrysene	13.87	228	1362085	87.28	ng	96
85) Indeno(1,2,3-cd)pyrene	16.52	276	837647	64.51	ng	# 89
87) Benzo(b)fluoranthene	14.84	252	1743094m	74.98	ng	
88) Benzo(k)fluoranthene	14.87	252	697384m	36.64	ng	
89) Benzo(a)pyrene	15.17	252	1332525	66.45	ng	95
90) Dibenzo(a,h)anthracene	16.52	278	223876	13.25	ng	94
91) Benzo(g,h,i)perylene	16.91	276	696048	40.53	ng	# 91

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

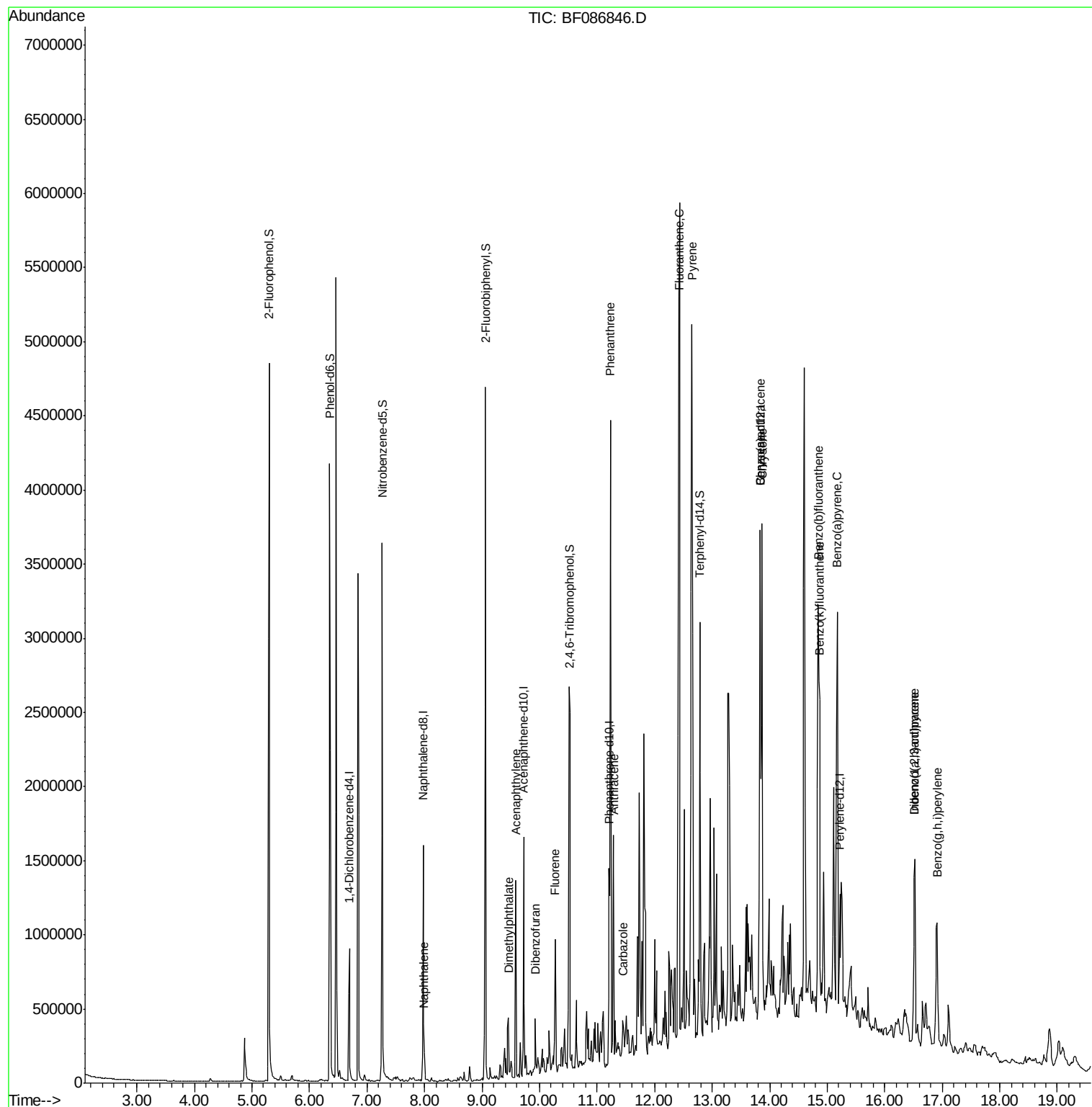
Data Path : Z:\HPCHEM1\BNA F\DATA\BF050916\
Data File : BF086846.D
Acq On : 10 May 2016 3:19
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ALS Vial : 20 Sample Multiplier: 1

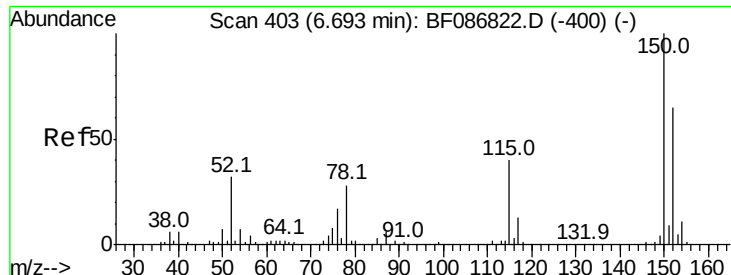
Instrument :
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TP8-10.5-12FT

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.69 min Scan# 403

Delta R.T. 0.00 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

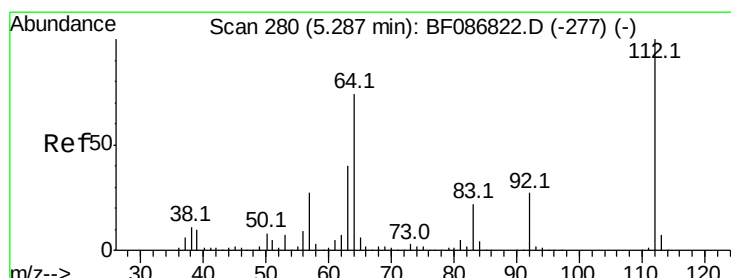
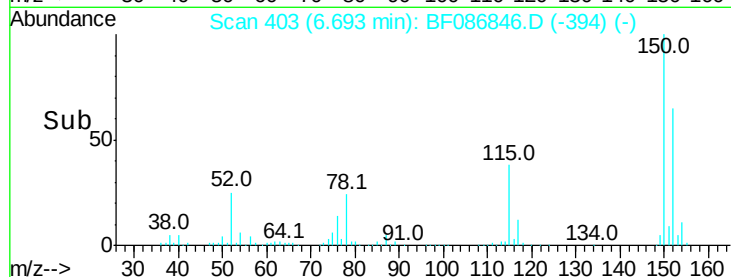
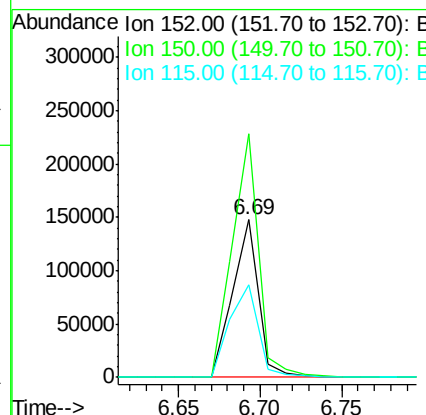
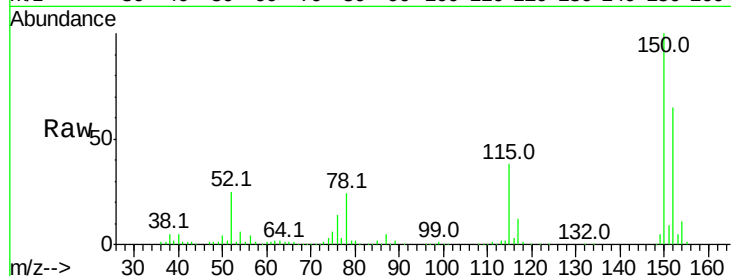
ClientSampleId :

TP8-10.5-12FT

Tot Ion:	152	Resp:	161171
Ion Ratio	Lower	Upper	
152	100		
150	154.4	125.8	188.6
115	58.6	51.5	77.3

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#5

2-Fluorophenol

Concen: 149.29 ng

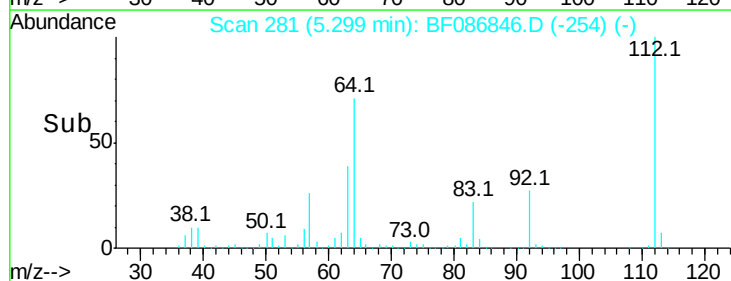
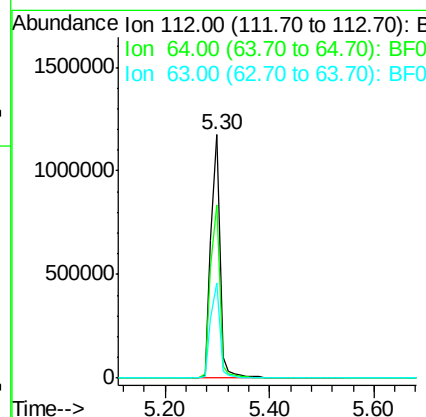
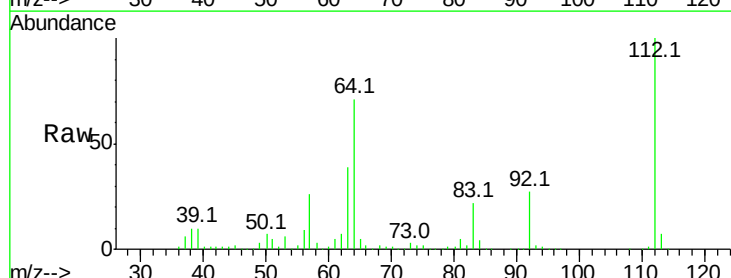
RT: 5.30 min Scan# 281

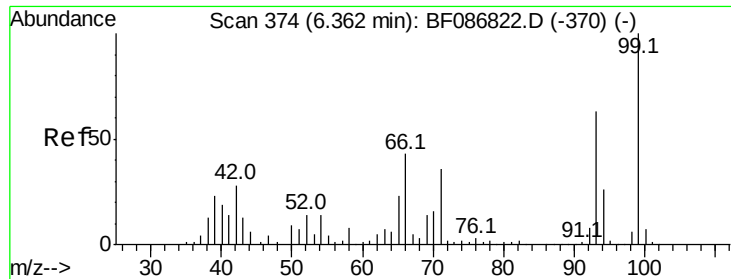
Delta R.T. 0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Tgt Ion:	112	Resp:	1420808
Ion Ratio	Lower	Upper	
112	100		
64	71.1	52.1	78.1
63	39.0	25.7	38.5





#7

Phenol-d6

Concen: 142.64 ng

RT: 6.35 min Scan# 373

Delta R.T. -0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

ClientSampleId :

TP8-10.5-12FT

Tot Ion: 99 Resp: 1814315

Ion Ratio Lower Upper

99 100

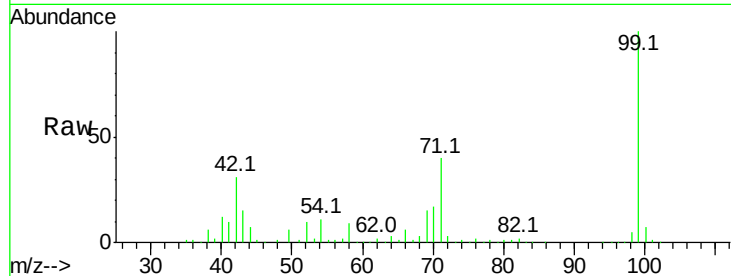
42 30.9 13.6 20.4#

71 39.5 24.6 36.8#

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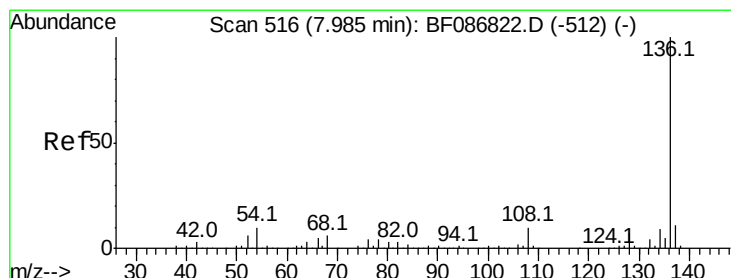
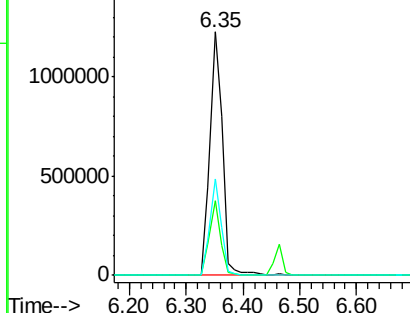
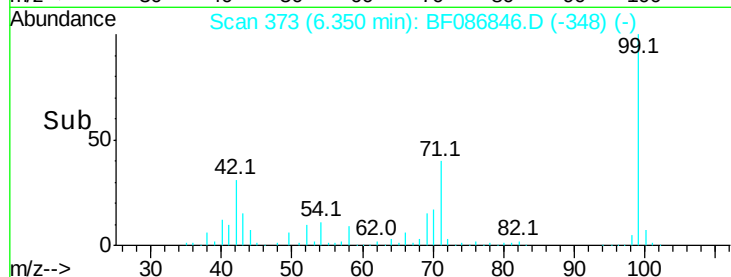
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.97 min Scan# 515

Delta R.T. -0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Tgt Ion: 136 Resp: 671945

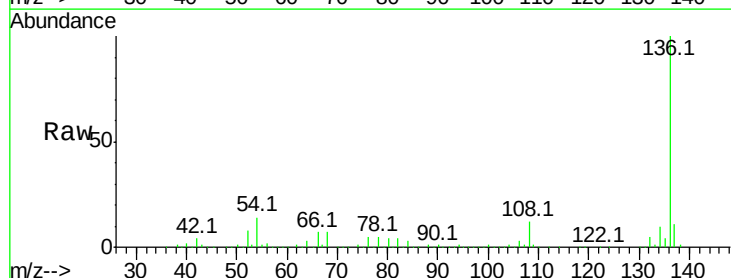
Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 13.8 5.0 7.4#

68 7.4 4.4 6.6#

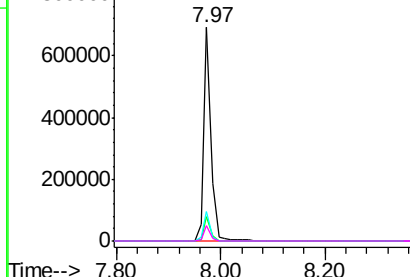
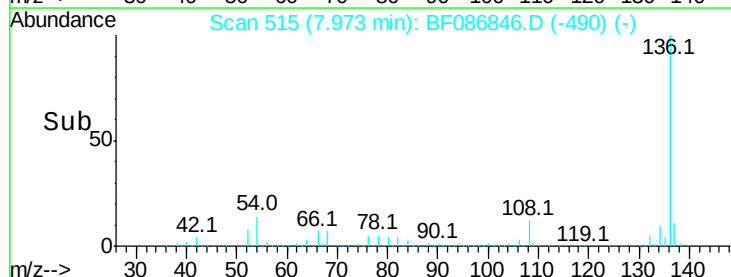


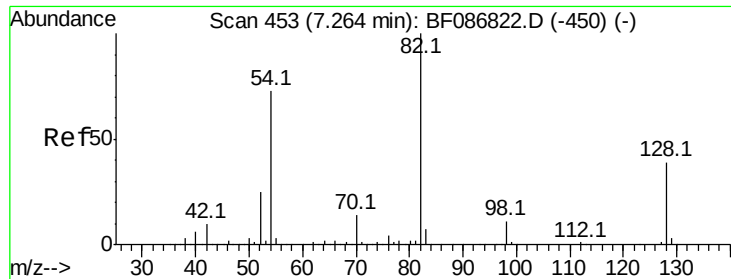
Abundance Ion 136.00 (135.70 to 136.70): E

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





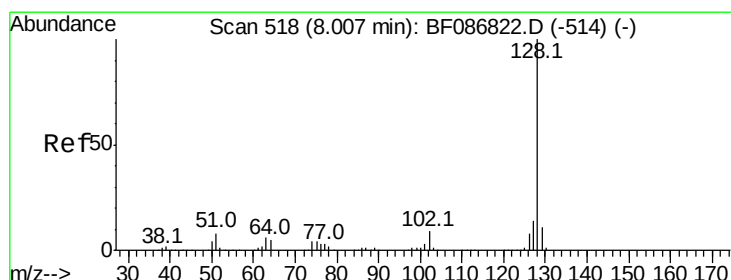
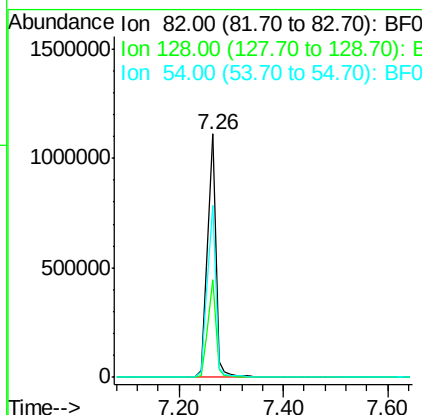
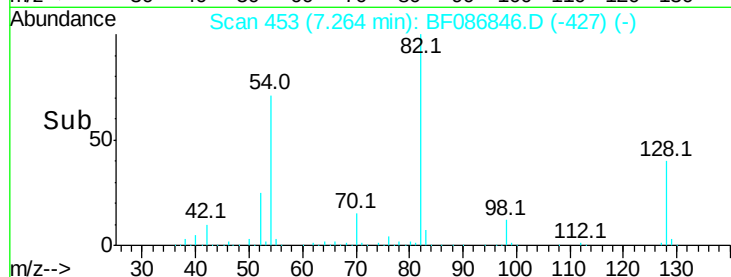
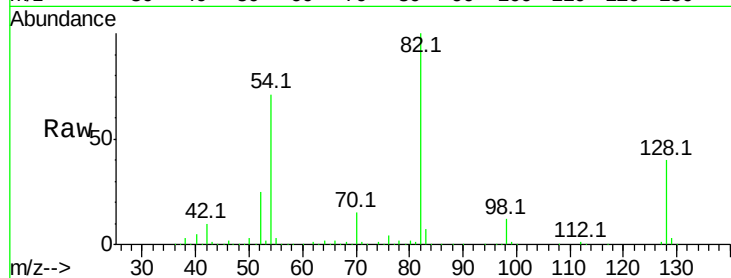
#23
 Nitrobenzene-d5
 Concen: 92.80 ng
 RT: 7.26 min Scan# 453
 Delta R.T. 0.00 min
 Lab File: BF086846.D
 Acq: 10 May 2016 3:19

Instrument :
 BNA_F
 ClientSampleId :
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Tot Ion:	82	Resp:	1241797
Ion	Ratio	Lower	Upper
82	100		
128	40.1	40.6	61.0#
54	70.8	38.1	57.1#

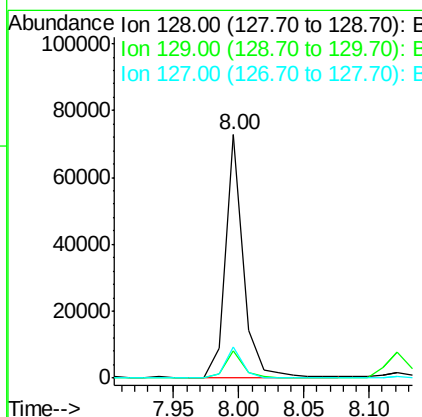
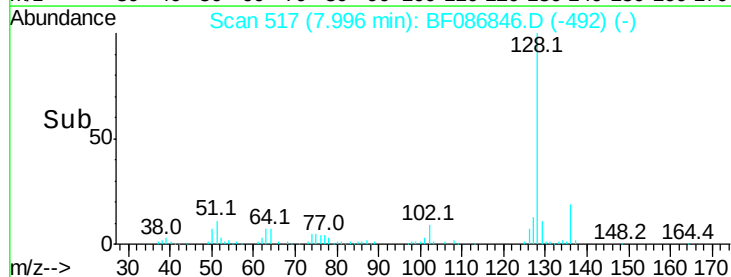
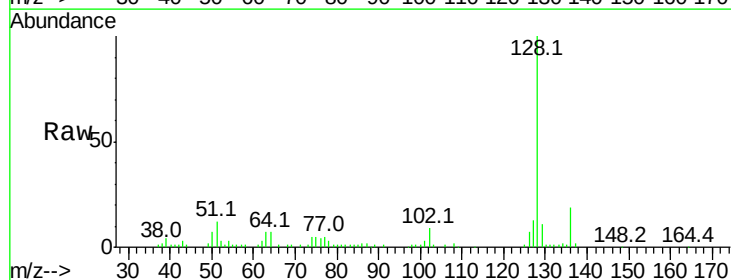
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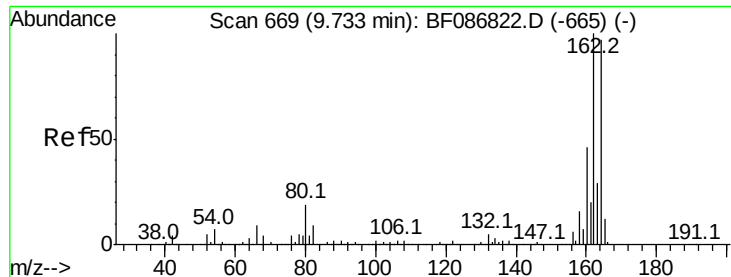
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#31
 Naphthalene
 Concen: 2.07 ng
 RT: 8.00 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: BF086846.D
 Acq: 10 May 2016 3:19

Tgt Ion:	128	Resp:	69767
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	13.0
127	12.7	10.8	16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.72 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

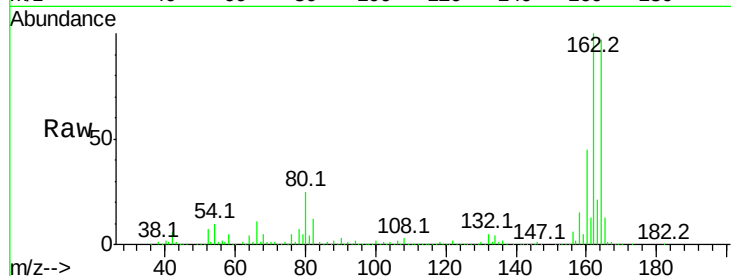
ClientSampleId :

TP8-10.5-12FT

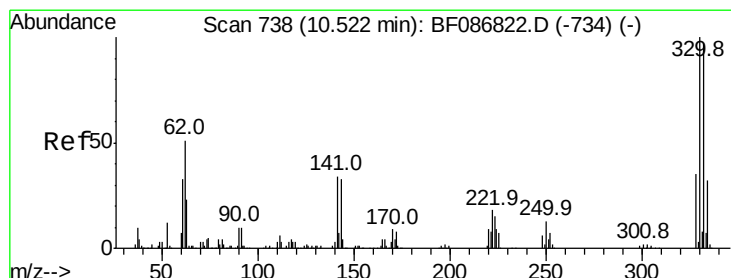
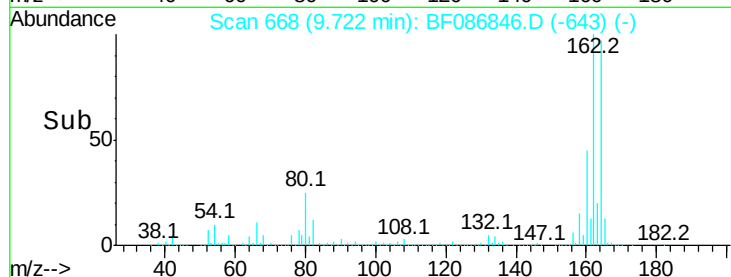
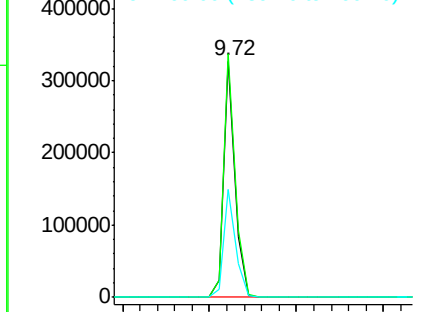
Tot Ion:	164	Resp:	303104
Ion Ratio	Lower	Upper	
164	100		
162	103.0	82.8	124.2
160	45.8	36.9	55.3

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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: 140.53 ng

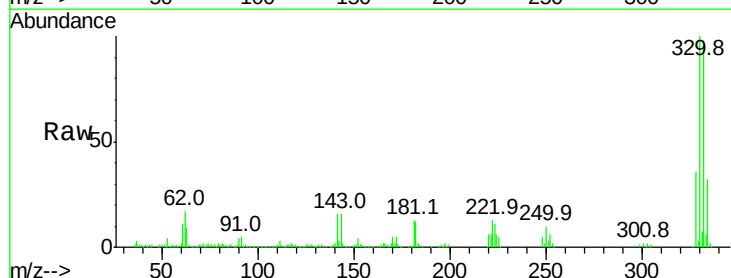
RT: 10.52 min Scan# 738

Delta R.T. 0.00 min

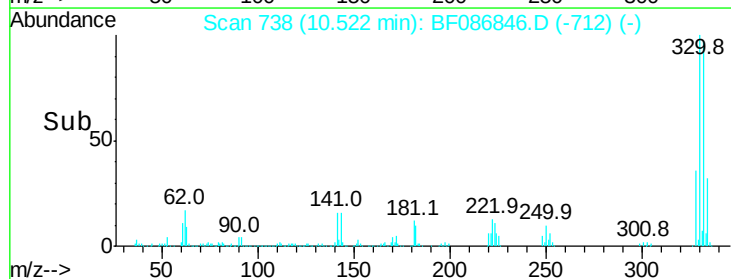
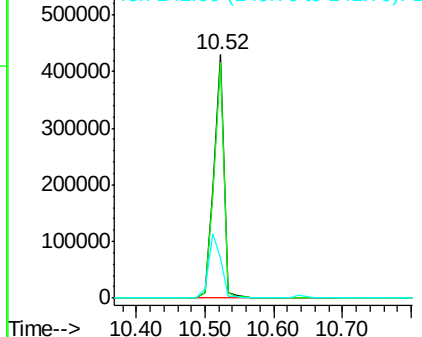
Lab File: BF086846.D

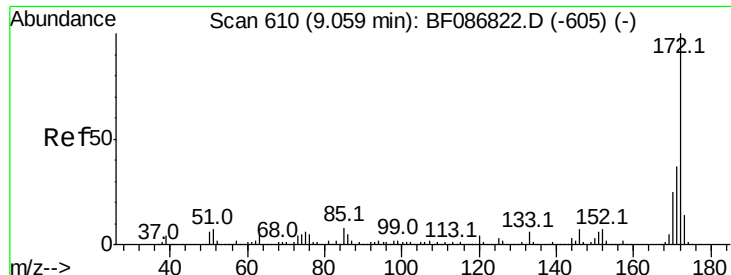
Acq: 10 May 2016 3:19

Tgt Ion:	330	Resp:	450955
Ion Ratio	Lower	Upper	
330	100		
332	96.3	79.0	118.4
141	31.6	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





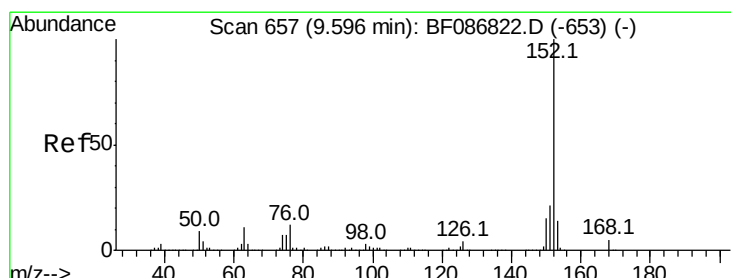
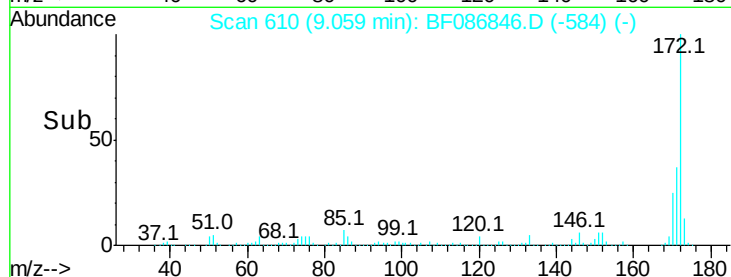
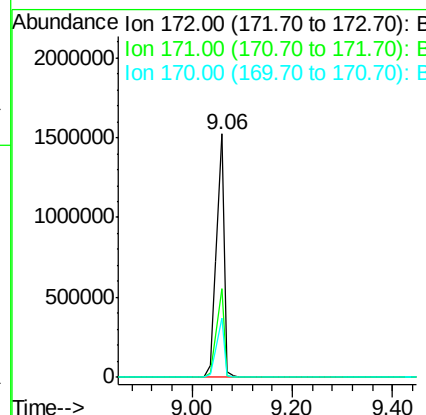
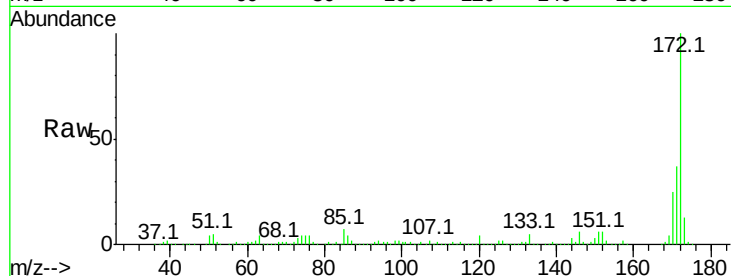
#44
 2-Fluorobiphenyl
 Concen: 91.27 ng
 RT: 9.06 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: BF086846.D
 Acq: 10 May 2016 3:19

Instrument :
 BNA_F
 ClientSampleId :
 TP8-10.5-12FT

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.6
170	24.6	19.8	29.8

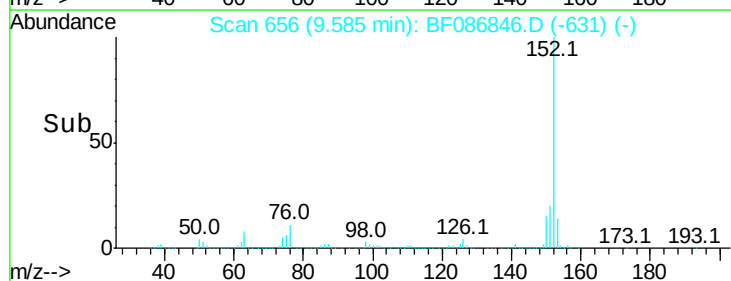
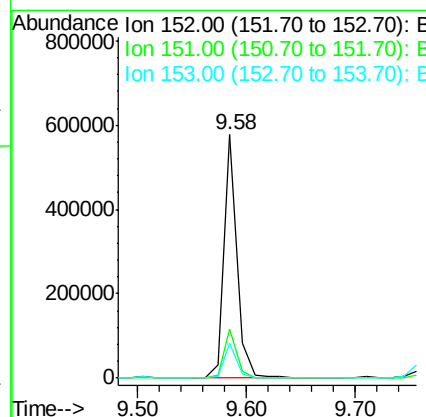
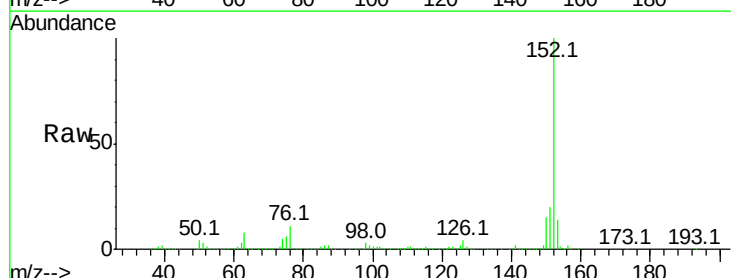
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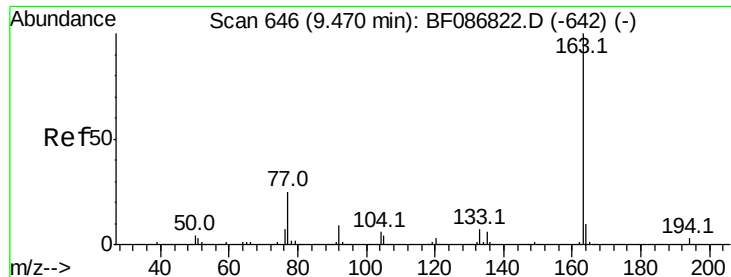
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#48
 Acenaphthylene
 Concen: 17.67 ng
 RT: 9.58 min Scan# 656
 Delta R.T. -0.01 min
 Lab File: BF086846.D
 Acq: 10 May 2016 3:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.8	25.2
153	14.2	10.9	16.3





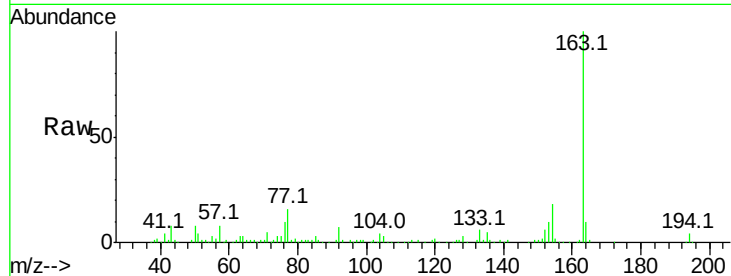
#49
Dimethylphthalate
Concen: 7.07 ng
RT: 9.46 min Scan# 645
Delta R.T. -0.01 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Instrument :
BNA_F
ClientSampleId :
TP8-10.5-12FT

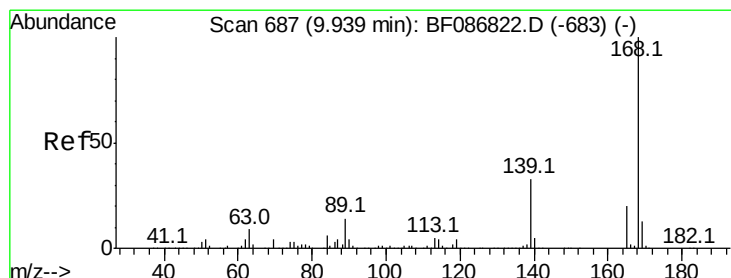
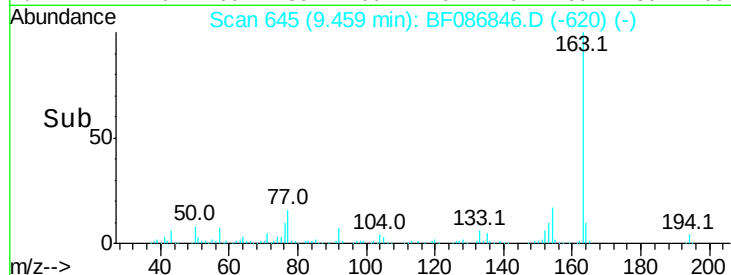
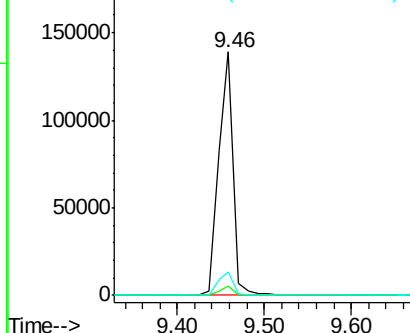
Tot Ion	Ratio	Resp	Lower	Upper
163	100	163593		
194	3.6	2.6	4.0	
164	9.8	8.2	12.4	

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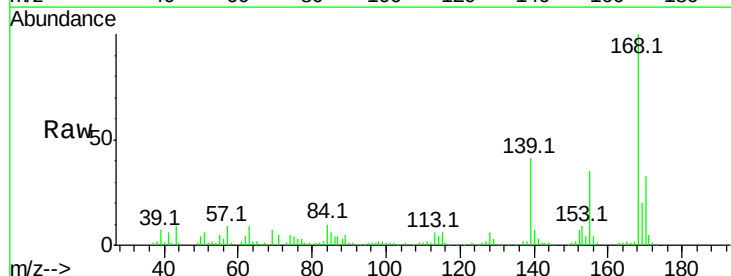


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

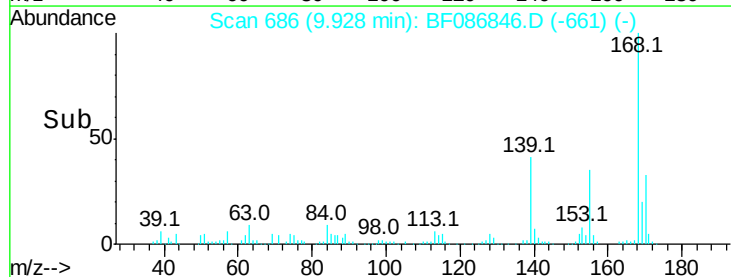
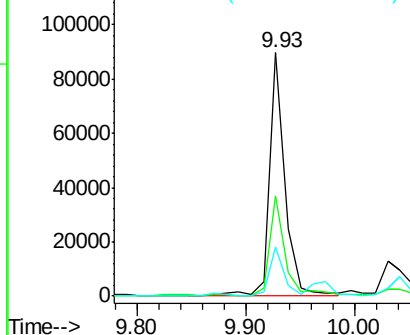


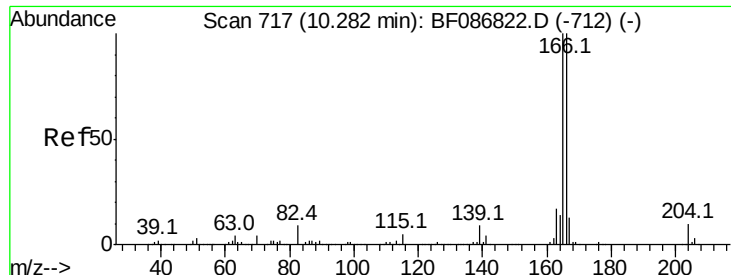
#54
Dibenzofuran
Concen: 4.04 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.01 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	89728		
139	41.4	31.4	47.0	
169	20.1	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: 14.23 ng

RT: 10.27 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

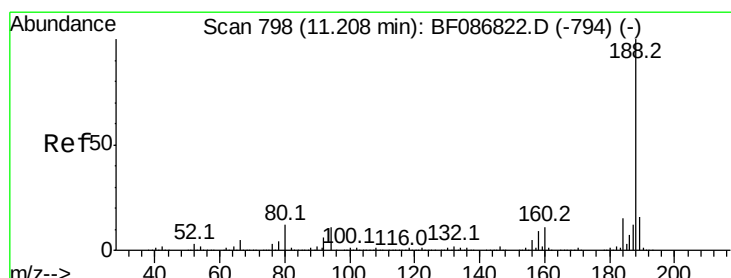
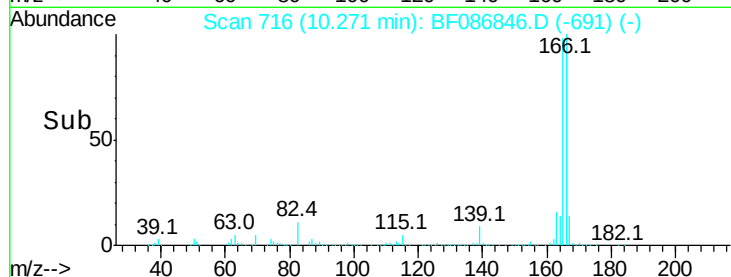
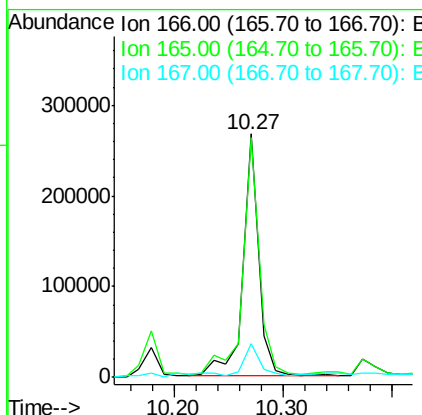
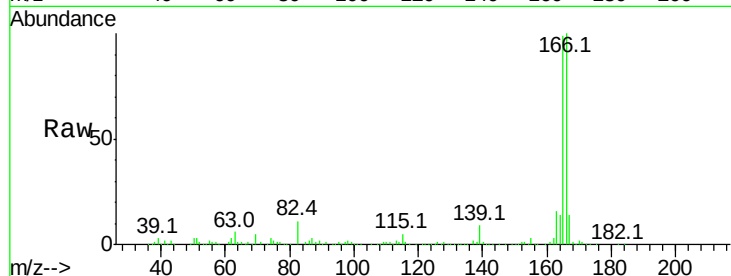
ClientSampleId :

TP8-10.5-12FT

Tot Ion:	166	Resp:	269197
Ion Ratio	Lower	Upper	
166	100		
165	98.7	79.0	118.6
167	13.7	10.6	15.8

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#63

Phenanthrene-d10

Concen: 20.00 ng

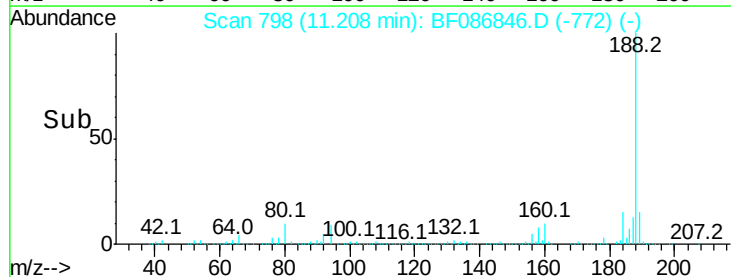
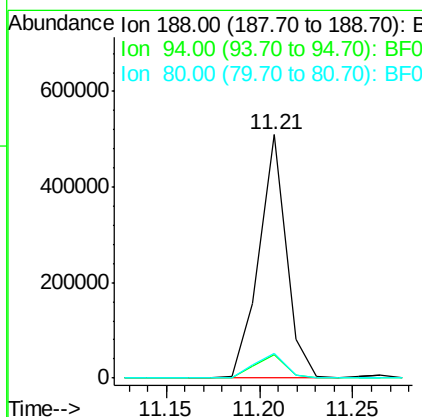
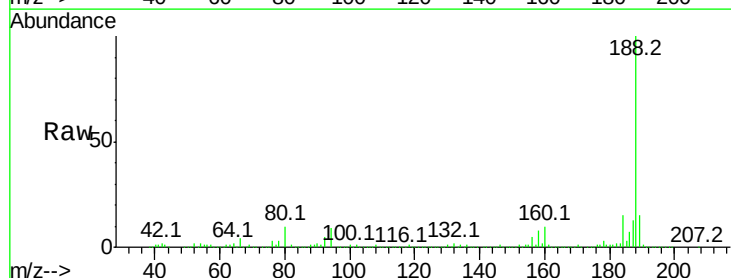
RT: 11.21 min Scan# 798

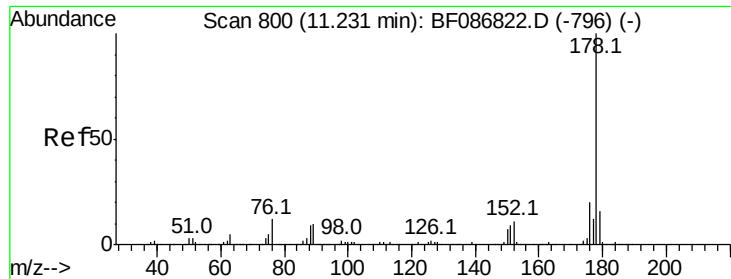
Delta R.T. 0.00 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Tgt Ion:	188	Resp:	518928
Ion Ratio	Lower	Upper	
188	100		
94	9.4	6.8	10.2
80	10.2	7.1	10.7





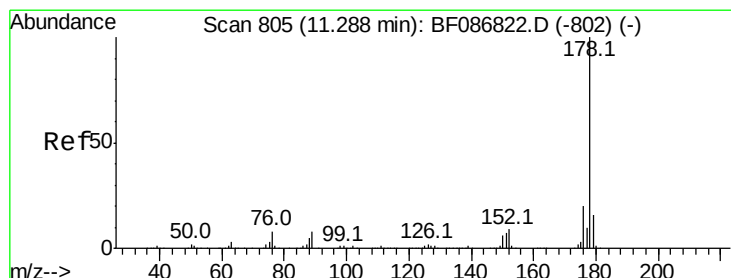
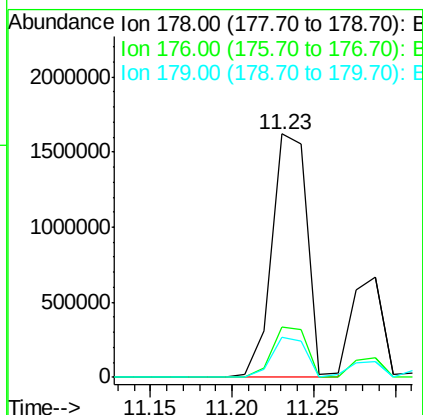
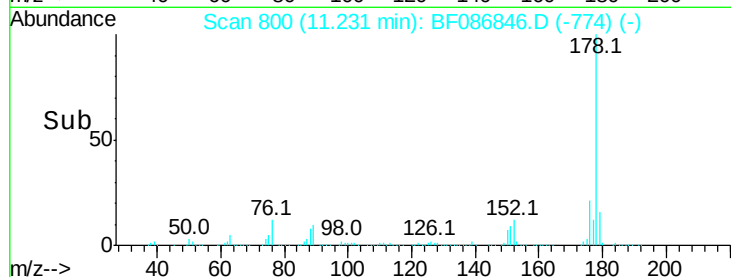
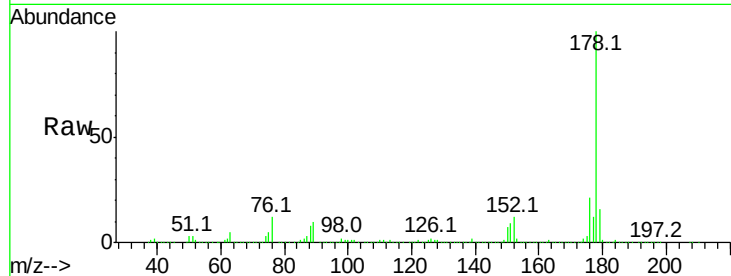
#70
Phenanthrene
Concen: 87.90 ng
RT: 11.23 min Scan# 800
Delta R.T. -0.00 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Instrument :
BNA_F
ClientSampleId :
TP8-10.5-12FT

Tot Ion:178 Resp: 2434164
Ion Ratio Lower Upper
178 100
176 20.7 16.0 24.0
179 16.3 12.6 18.8

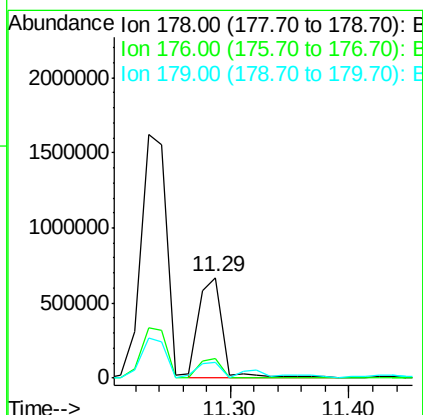
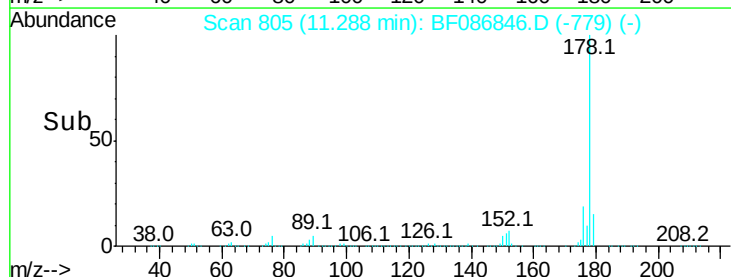
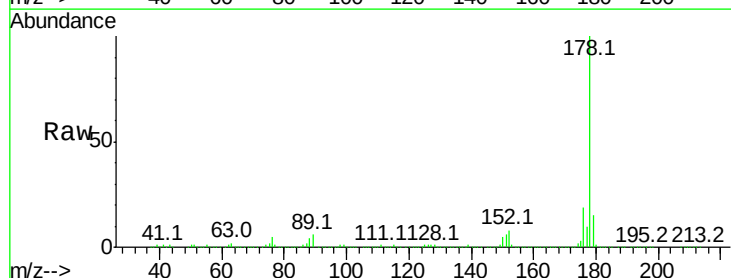
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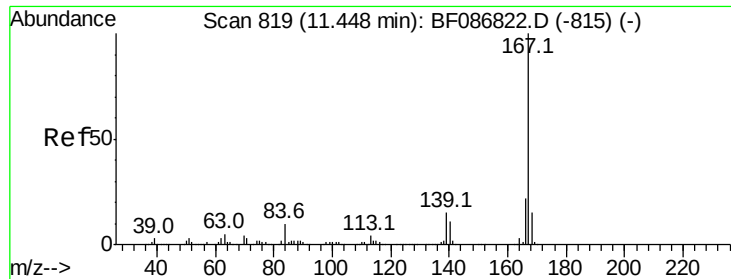
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#71
Anthracene
Concen: 32.44 ng
RT: 11.29 min Scan# 805
Delta R.T. -0.00 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Tgt Ion:178 Resp: 918653
Ion Ratio Lower Upper
178 100
176 19.0 15.6 23.4
179 15.1 12.7 19.1





#72

Carbazole

Concen: 4.63 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.00 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

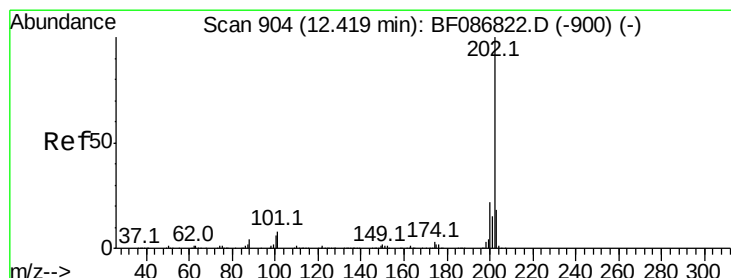
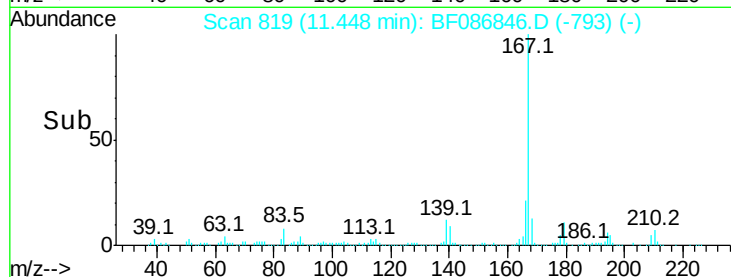
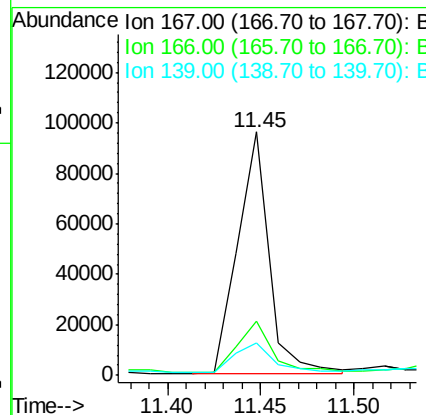
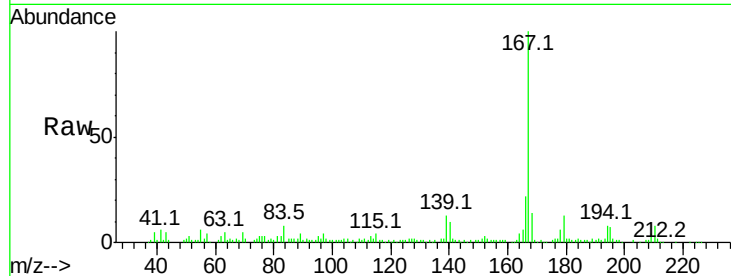
ClientSampleId :

TP8-10.5-12FT

Tot Ion:	167	Resp:	112671
Ion Ratio	Lower	Upper	
167	100		
166	22.2	17.7	26.5
139	13.1	10.8	16.2

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#74

Fluoranthene

Concen: 130.16 ng

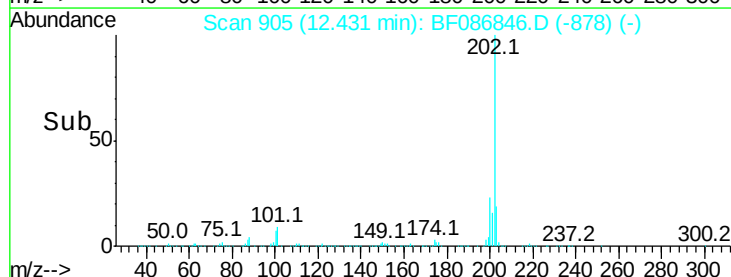
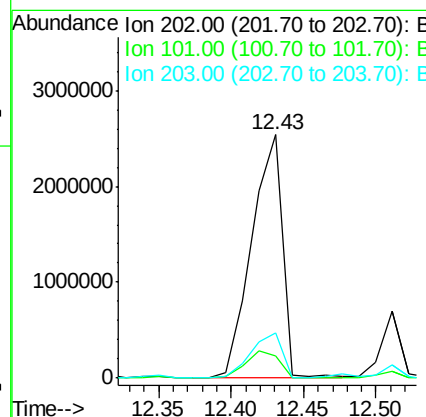
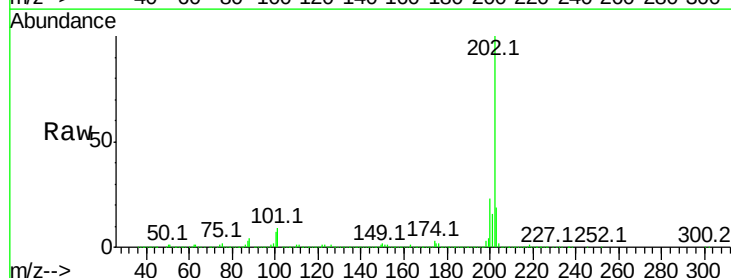
RT: 12.43 min Scan# 905

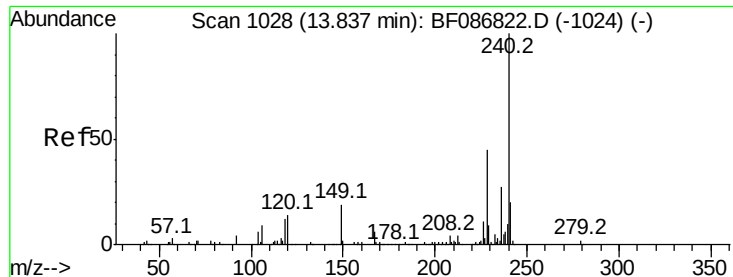
Delta R.T. 0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Tgt Ion:	202	Resp:	3707403
Ion Ratio	Lower	Upper	
202	100		
101	9.1	0.0	35.4
203	18.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.84 min Scan# 1028

Delta R.T. 0.00 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

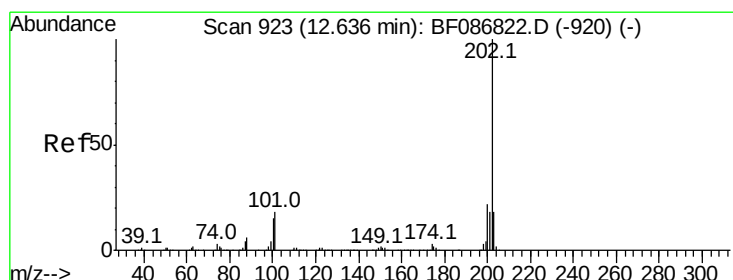
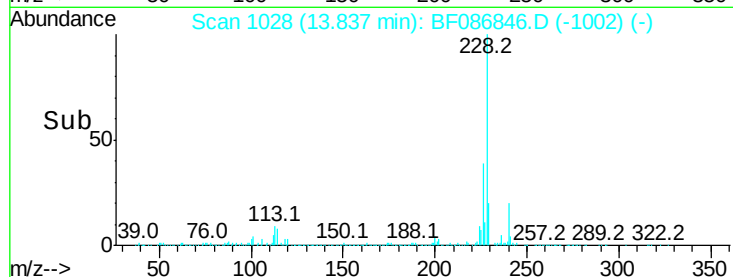
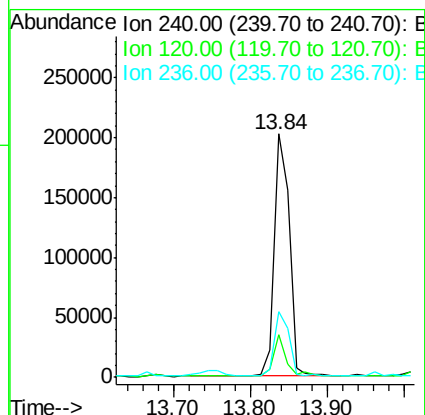
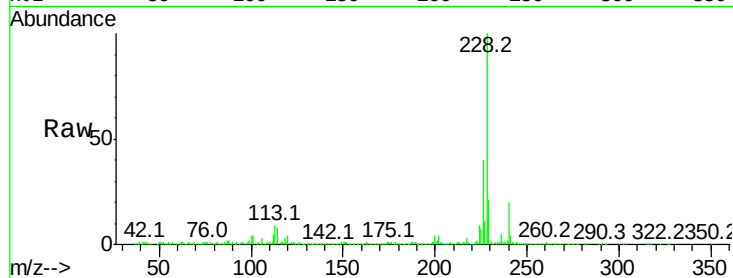
ClientSampled :

TP8-10.5-12FT

Tot Ion:	240	Resp:	273296
Ion Ratio	Lower	Upper	
240	100		
120	17.8	11.2	16.8#
236	26.8	21.2	31.8

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#77

Pyrene

Concen: 138.49 ng

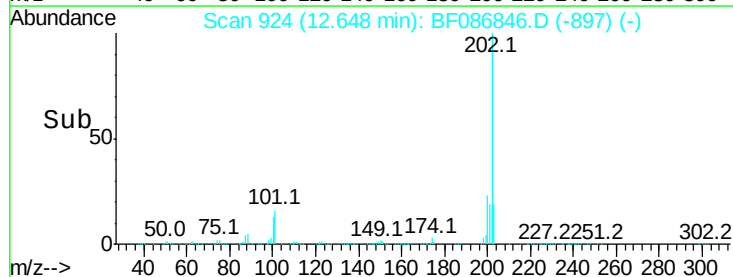
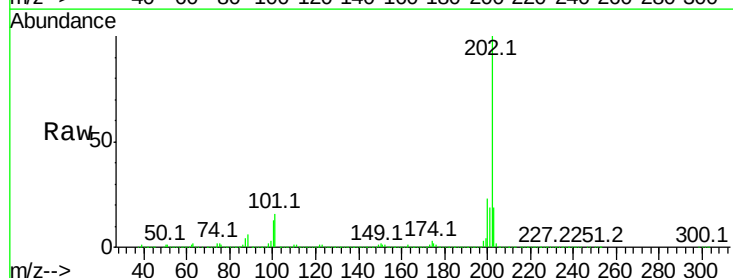
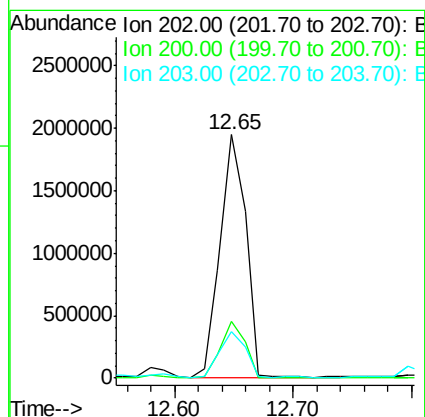
RT: 12.65 min Scan# 924

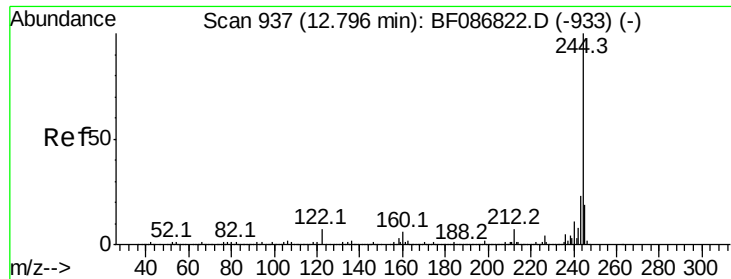
Delta R.T. 0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Tgt Ion:	202	Resp:	2897710
Ion Ratio	Lower	Upper	
202	100		
200	23.3	17.7	26.5
203	19.0	14.2	21.4





#78

Terphenyl-d14

Concen: 77.75 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

ClientSampled :

TP8-10.5-12FT

Tot Ion:244 Resp: 1001476

Ion Ratio Lower Upper

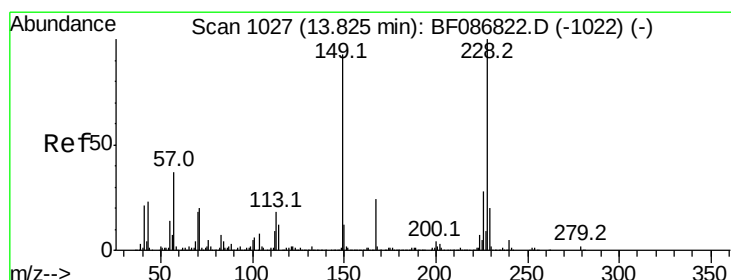
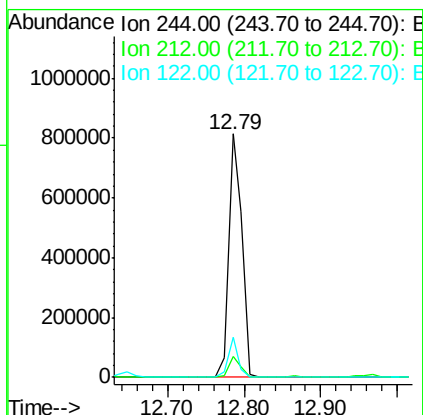
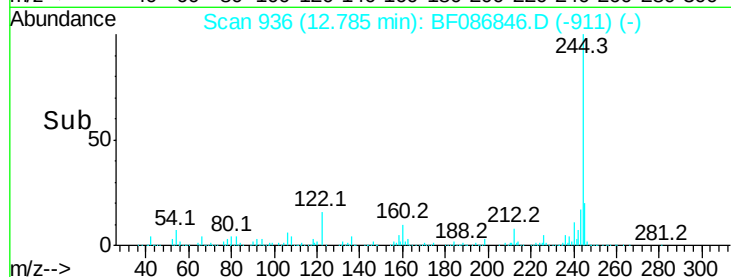
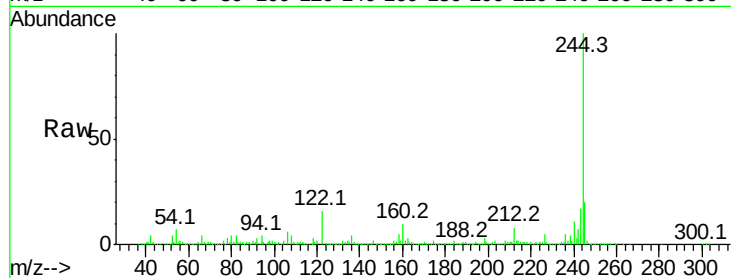
244 100

212 8.3 6.2 9.2

122 16.3 12.0 18.0

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#80

Benzo(a)anthracene

Concen: 109.89 ng m

RT: 13.84 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

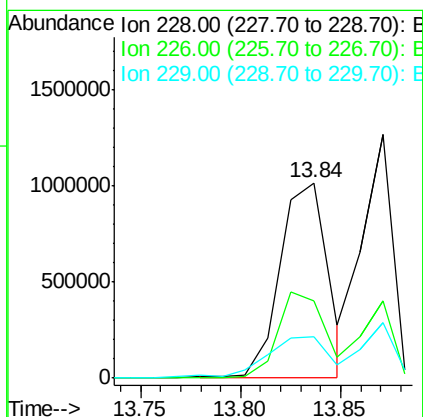
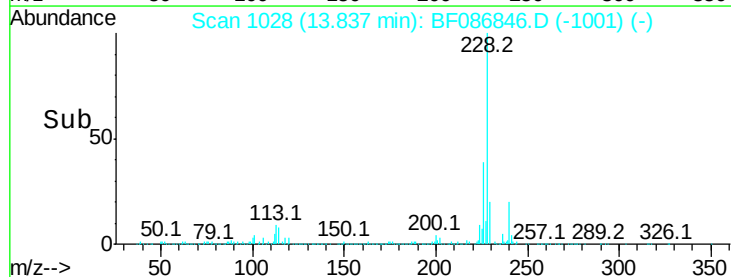
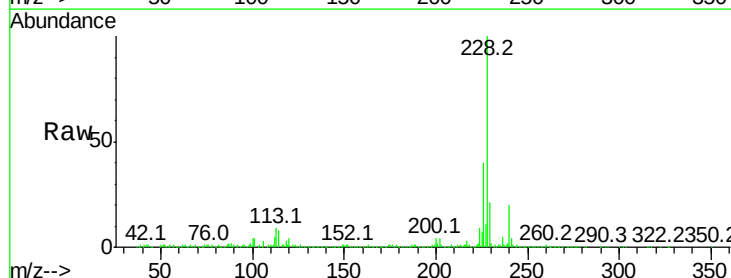
Tgt Ion:228 Resp: 1685964

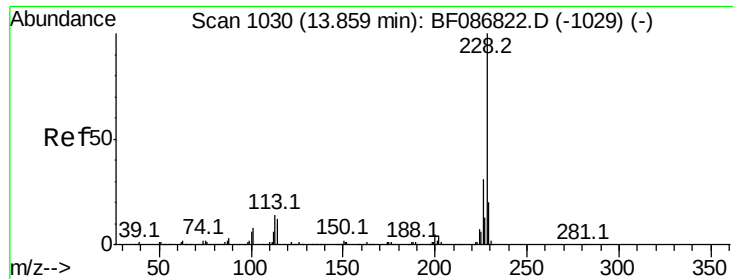
Ion Ratio Lower Upper

228 100

226 39.7 22.5 33.7#

229 21.0 16.6 25.0





#82

Chrysene

Concen: 87.28 ng

RT: 13.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

ClientSampleId :

TP8-10.5-12FT

Tot Ion:228 Resp: 1362085

Ion	Ratio	Lower	Upper
228	100		
226	31.9	24.4	36.6
229	22.9	15.8	23.8

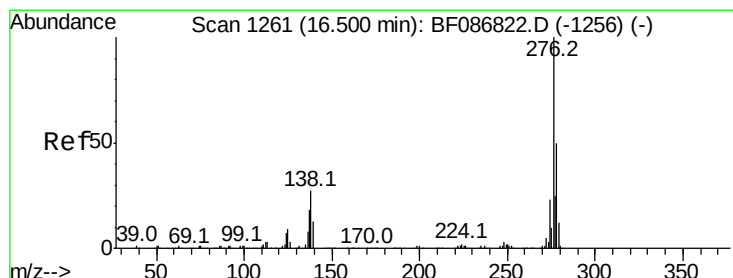
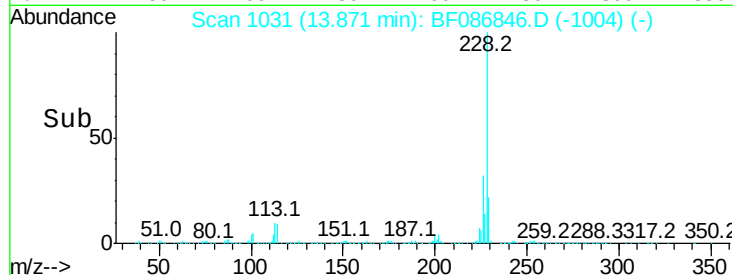
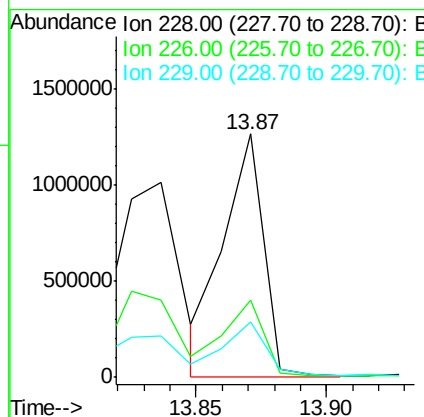
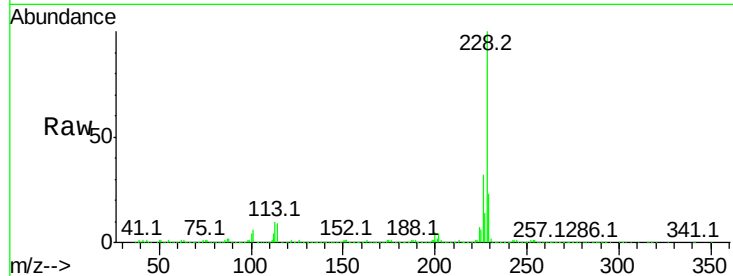
228 100

226 31.9 24.4 36.6

229 22.9 15.8 23.8

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#85

Indeno(1,2,3-cd)pyrene

Concen: 64.51 ng

RT: 16.52 min Scan# 1263

Delta R.T. 0.02 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

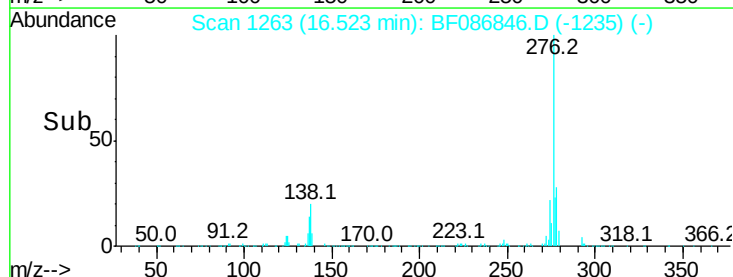
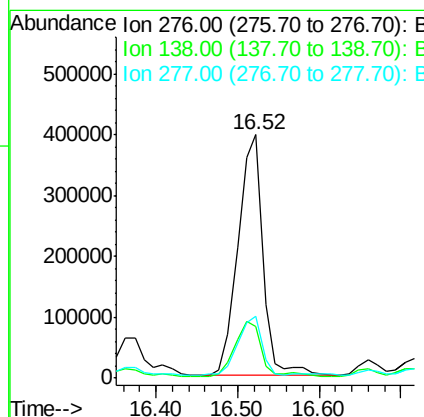
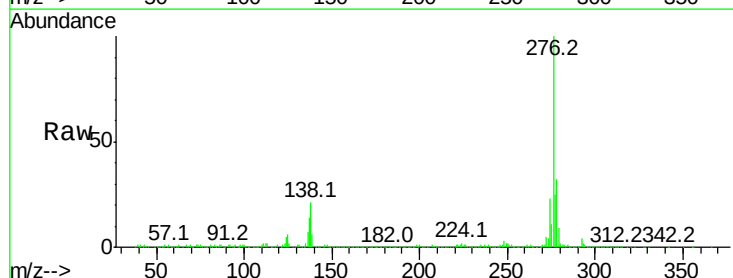
Tgt Ion:276 Resp: 837647

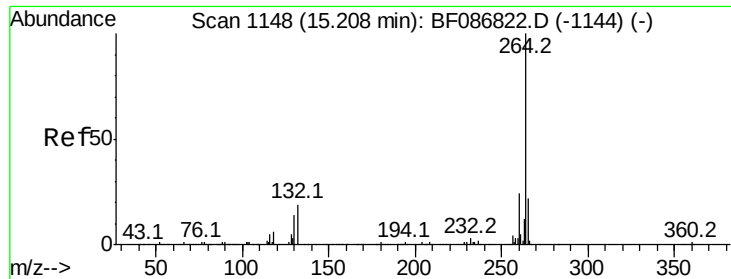
Ion	Ratio	Lower	Upper
276	100		
138	22.7	25.6	38.4#
277	23.7	20.5	30.7

276 100

138 22.7 25.6 38.4#

277 23.7 20.5 30.7





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.22 min Scan# 1149

Delta R.T. 0.01 min

Lab File: BF086846.D

Acq: 10 May 2016 3:19

Instrument :

BNA_F

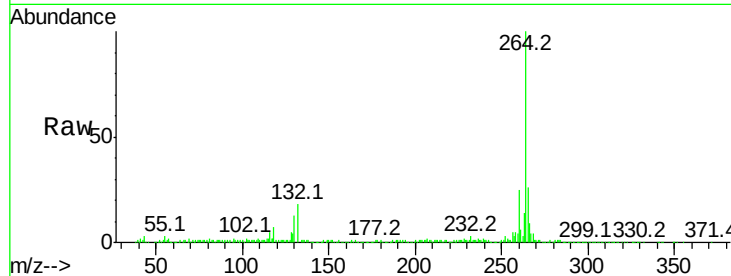
ClientSampleId :

TP8-10.5-12FT

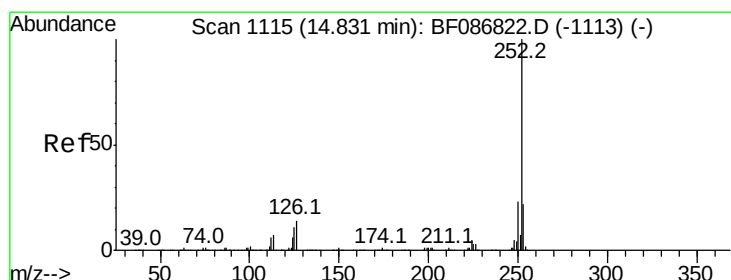
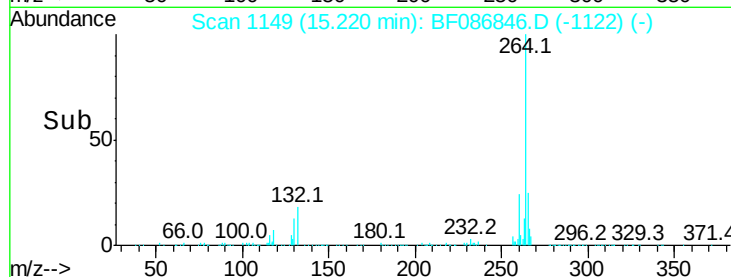
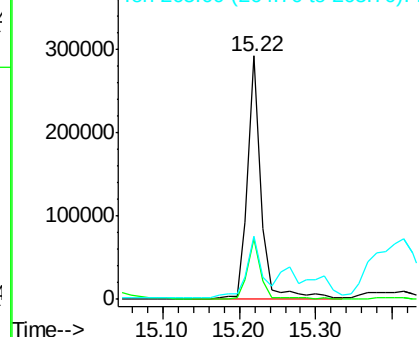
Tot Ion	Ratio	Resp	Lower	Upper
264	100	357715		
260	24.8	19.5	29.3	
265	25.7	17.3	25.9	

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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: 74.98 ng m

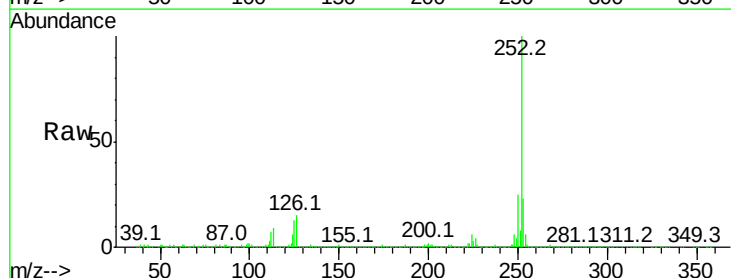
RT: 14.84 min Scan# 1116

Delta R.T. 0.01 min

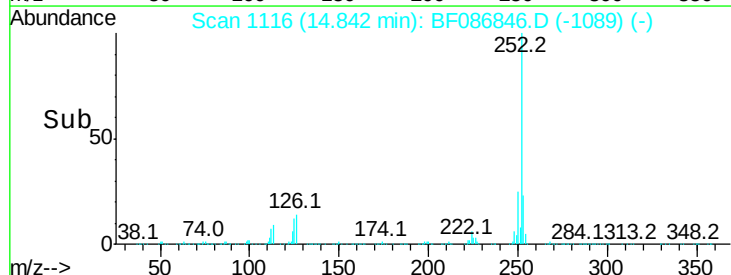
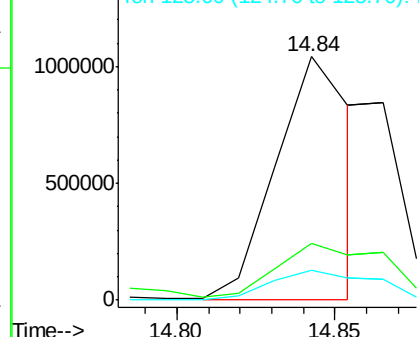
Lab File: BF086846.D

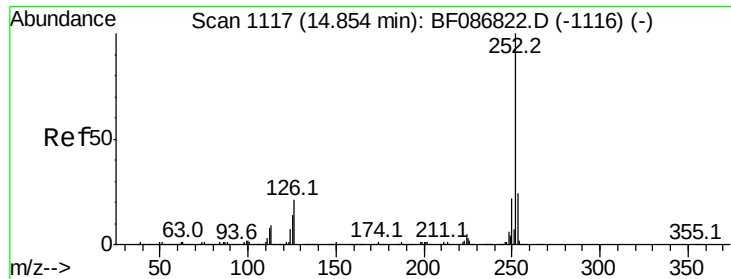
Acq: 10 May 2016 3:19

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	1743094		
253	23.2	17.8	26.6	
125	12.5	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





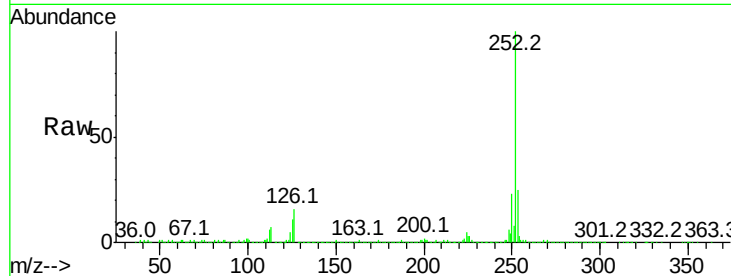
#88
Benzo(k)fluoranthene
Concen: 36.64 ng m
RT: 14.87 min Scan# 1118
Delta R.T. 0.01 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Instrument :
BNA_F
ClientSampleId :
TP8-10.5-12FT

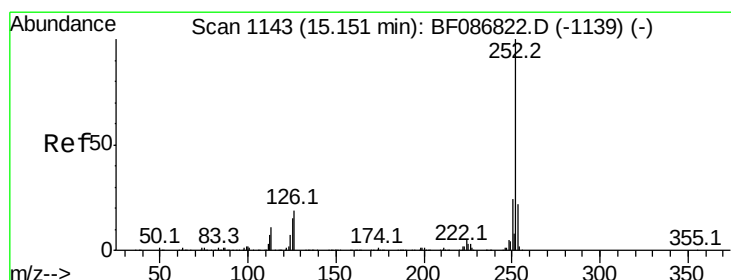
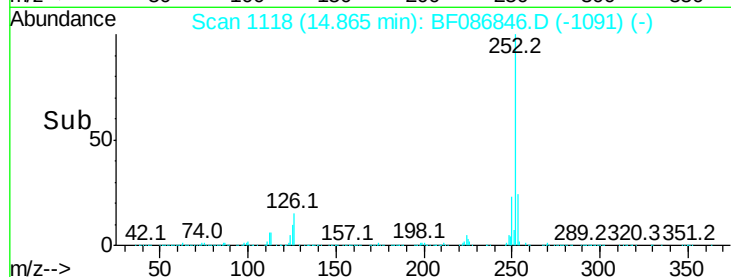
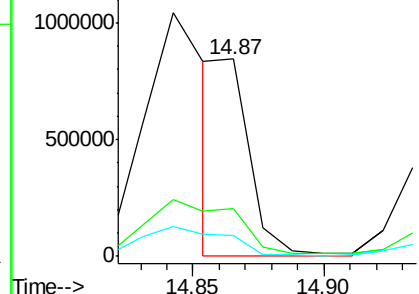
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.8	26.6
125	10.8	9.1	13.7

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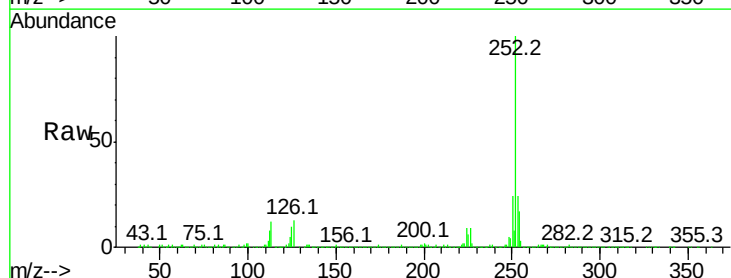


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

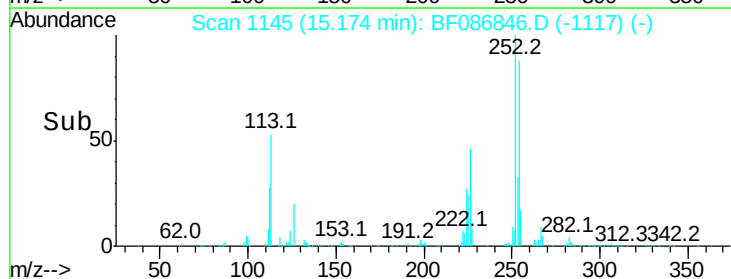
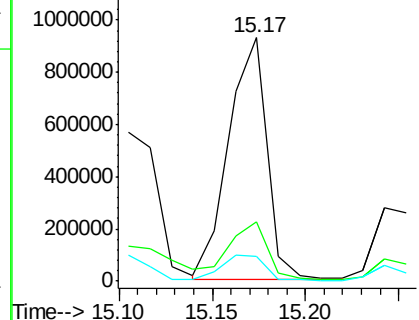


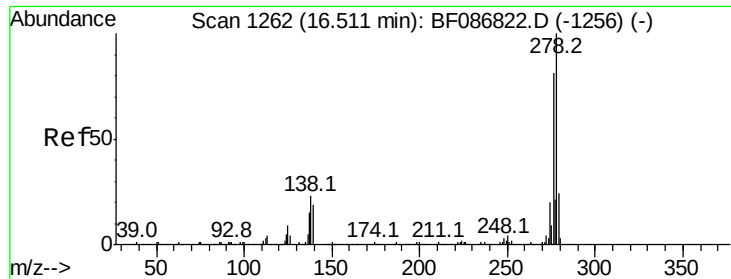
#89
Benzo(a)pyrene
Concen: 66.45 ng
RT: 15.17 min Scan# 1145
Delta R.T. 0.02 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.2	25.8
125	10.2	9.0	13.6



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





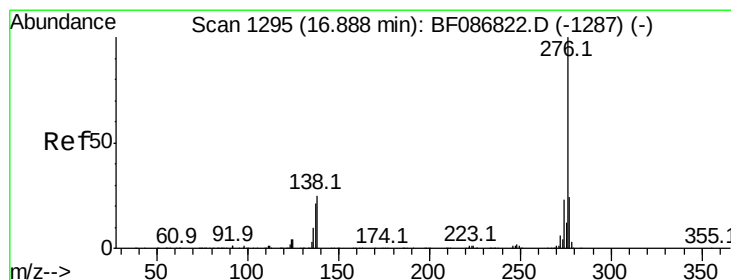
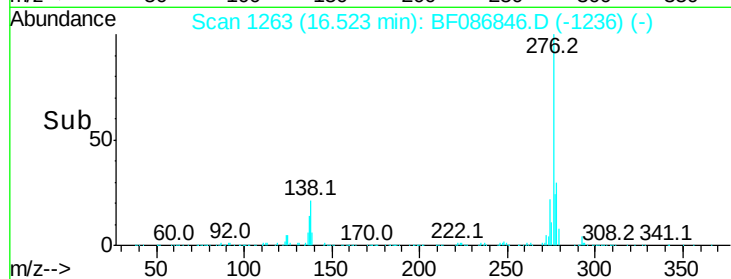
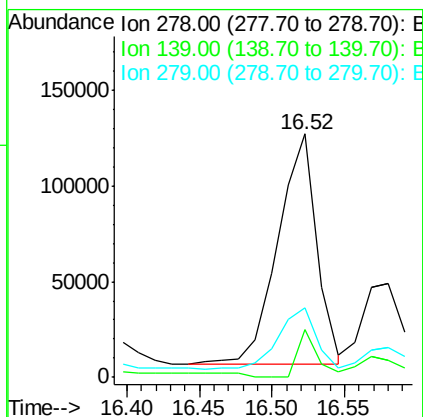
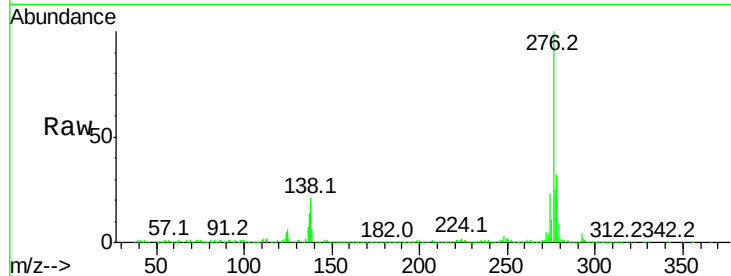
#90
Dibenzo(a,h)anthracene
Concen: 13.25 ng
RT: 16.52 min Scan# 1263
Delta R.T. 0.01 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Instrument :
BNA_F
ClientSampleId :
TP8-10.5-12FT

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.4	16.6	24.8
279	28.5	19.6	29.4

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#91
Benzo(g,h,i)perylene
Concen: 40.53 ng
RT: 16.91 min Scan# 1297
Delta R.T. 0.02 min
Lab File: BF086846.D
Acq: 10 May 2016 3:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.6	29.4
138	20.9	23.6	35.4#

