

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083420.D
 Acq On : 2 Dec 2015 16:12
 Operator : UM/IZ
 Sample : G4583-06
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(0-5)

Manual Integrations
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 12/3/2015 7:09:35 PM

Quant Time: Dec 03 03:46:19 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	145438m	20.00	ng	0.00
21) Naphthalene-d8	7.82	136	574277	20.00	ng	-0.01
38) Acenaphthene-d10	9.57	164	297335	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	510516	20.00	ng	-0.01
75) Chrysene-d12	14.73	240	438350	20.00	ng	-0.03
86) Perylene-d12	16.80	264	335863	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.13	112	992685	102.42	ng	0.00
7) Phenol-d6	6.21	99	1472662	111.01	ng	-0.01
23) Nitrobenzene-d5	7.12	82	975992	74.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	232468	77.88	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	1440973	69.06	ng	-0.01
78) Terphenyl-d14	13.21	244	1371940	74.64	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.86	128	3075146	98.69	ng	99
37) 2-Methylnaphthalene	8.54	142	668416	32.10	ng	98
45) 1,1'-Biphenyl	9.00	154	139710	5.36	ng	94
48) Acenaphthylene	9.44	152	70214	2.22	ng	# 93
49) Dimethylphthalate	9.31	163	191627	7.93	ng	98
51) Acenaphthene	9.61	154	438418	23.52	ng	98
57) Fluorene	10.12	166	235140m	10.90	ng	
70) Phenanthrene	11.14	178	1175197	38.90	ng	98
71) Anthracene	11.20	178	316340	10.40	ng	97
74) Fluoranthene	12.64	202	462505	14.77	ng	100
77) Pyrene	12.95	202	658358	21.51	ng	98
80) Benzo(a)anthracene	14.72	228	200868m	7.48	ng	
82) Chrysene	14.76	228	157180	6.06	ng	98
85) Indeno(1,2,3-cd)pyrene	18.17	276	42825	2.27	ng	95
87) Benzo(b)fluoranthene	16.28	252	102964m	4.78	ng	
89) Benzo(a)pyrene	16.72	252	103480	5.59	ng	99
91) Benzo(a,h,i)perylene	18.53	276	52208	3.30	ng	# 94

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

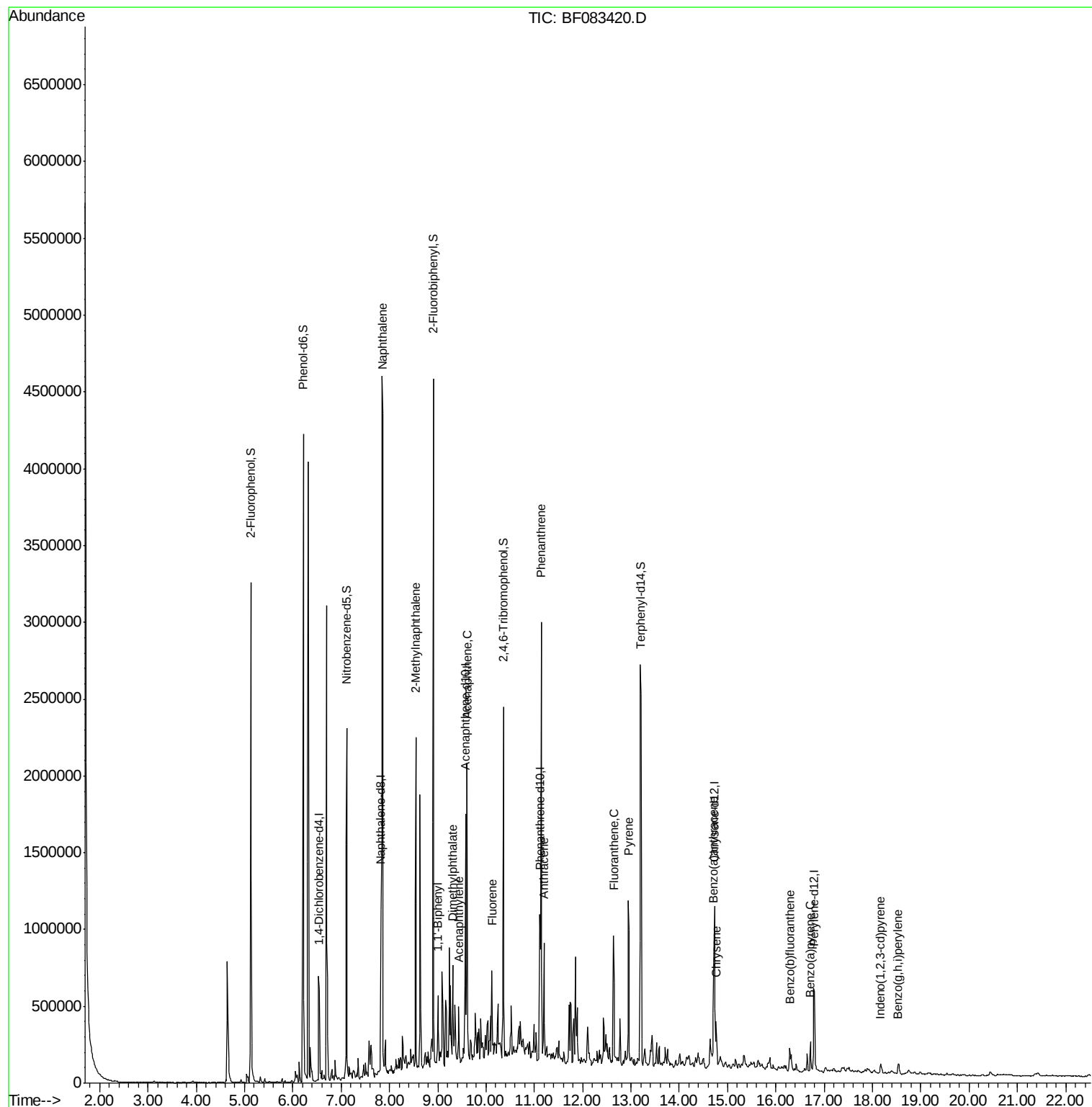
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
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#1

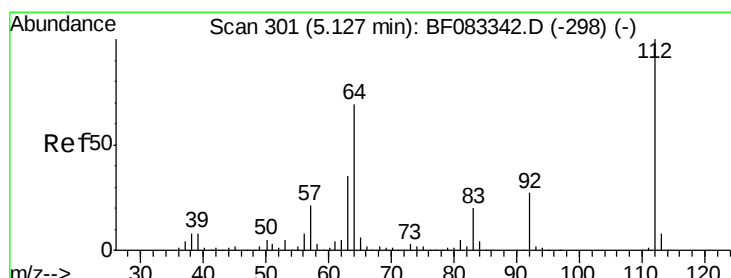
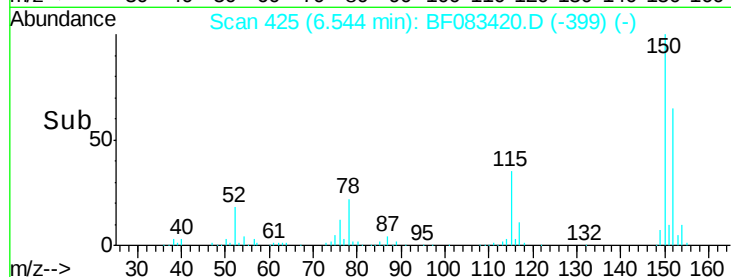
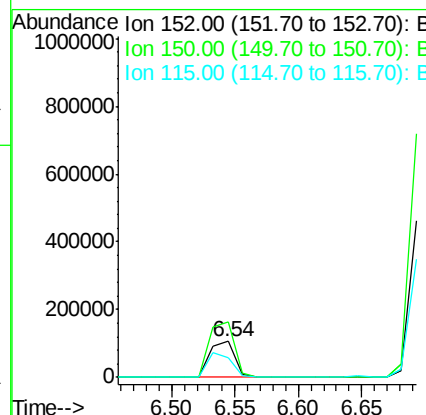
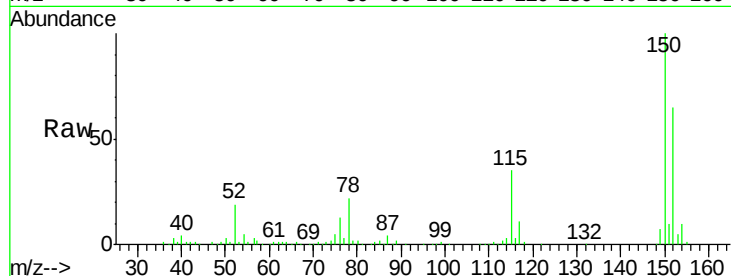
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.54 min Scan# 425
Delta R.T. -0.00 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(0-5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	129.8	194.8
115	53.4	59.2	88.8

Manual Integrations
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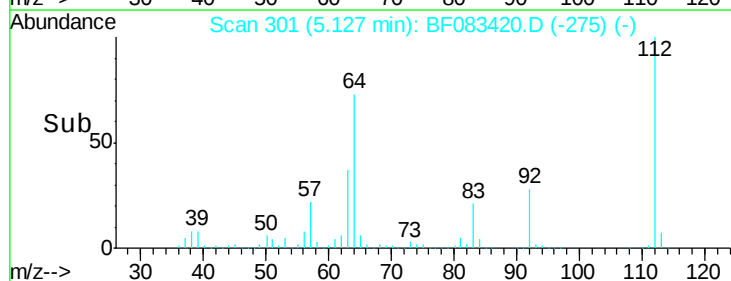
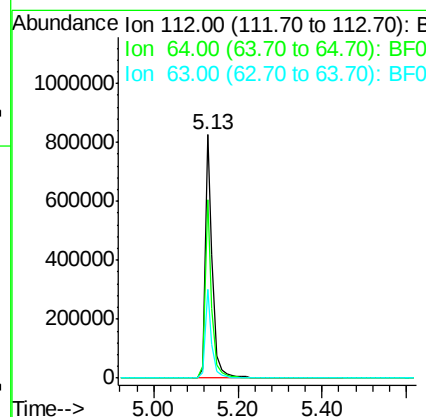
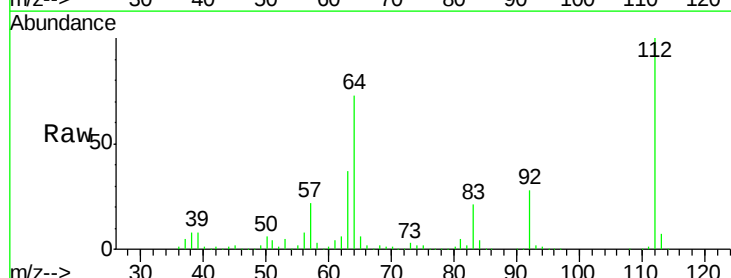
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#5

2-Fluorophenol
Concen: 102.42 ng/mL
RT: 5.13 min Scan# 301
Delta R.T. -0.00 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.1	55.6	83.4
63	36.6	28.2	42.2





#7

Phenol-d6

Concen: 111.01 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-06(0-5)

Tot Ion: 99 Resp: 1472662

Ion Ratio Lower Upper

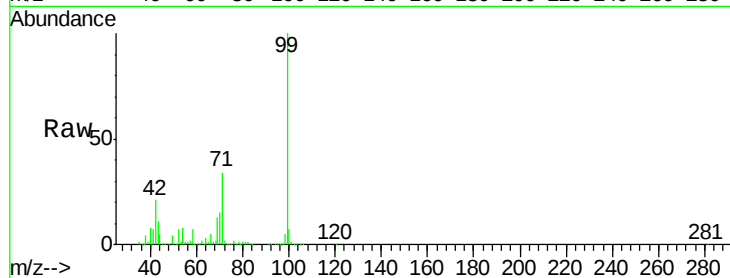
99 100

42 20.9 14.9 22.3

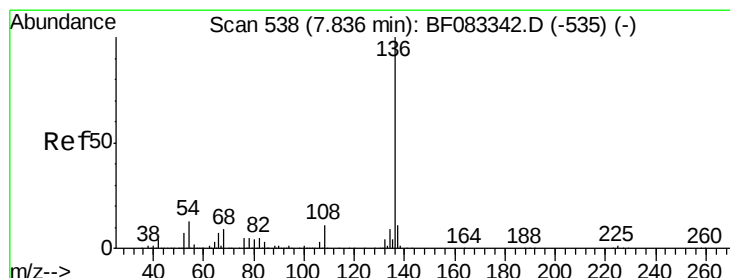
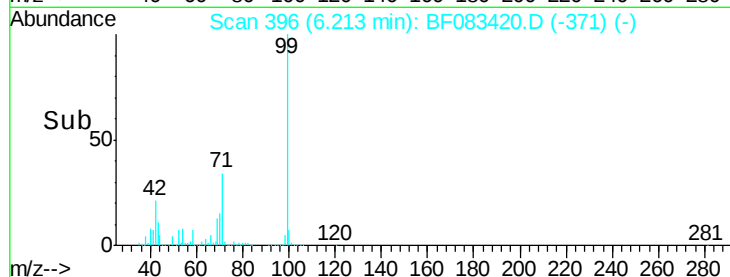
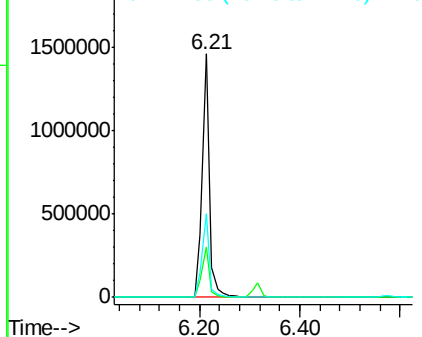
71 34.3 24.7 37.1

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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: 7.82 min Scan# 537

Delta R.T. -0.01 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Tgt Ion: 136 Resp: 574277

Ion Ratio Lower Upper

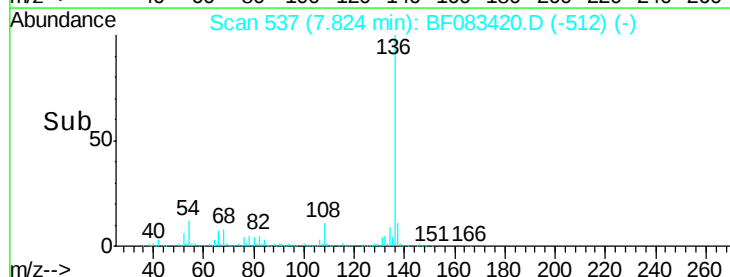
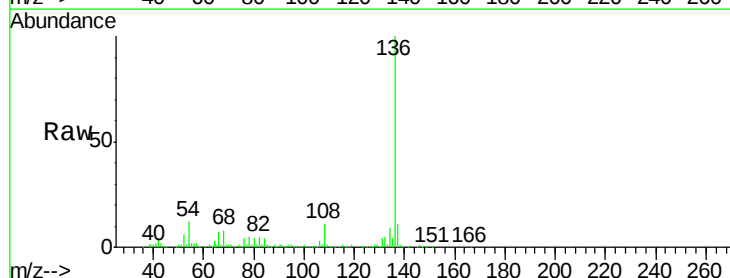
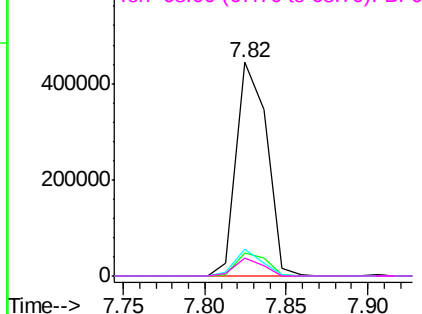
136 100

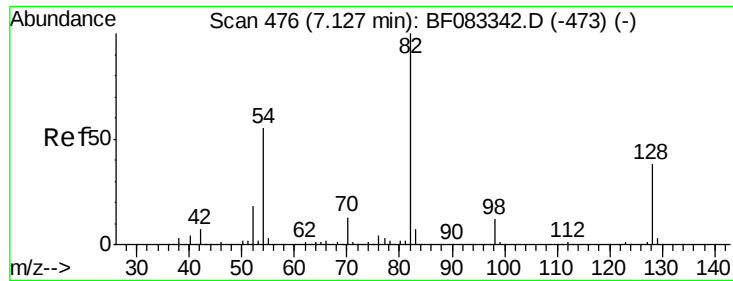
137 10.8 9.0 13.4

54 12.4 10.1 15.1

68 8.2 7.1 10.7

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





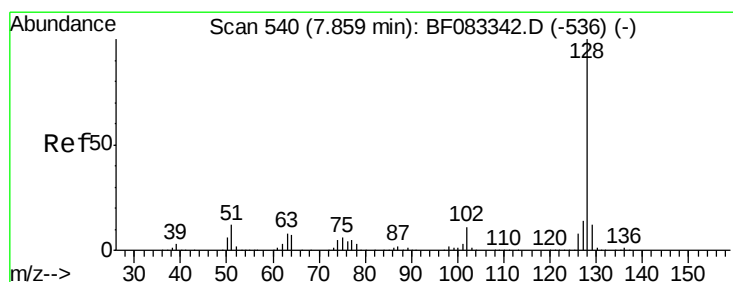
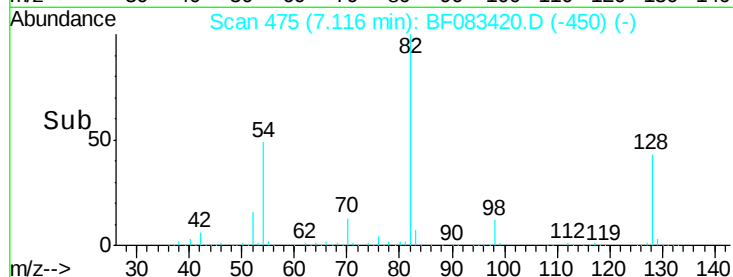
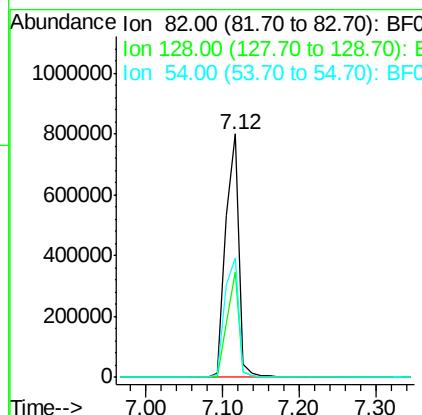
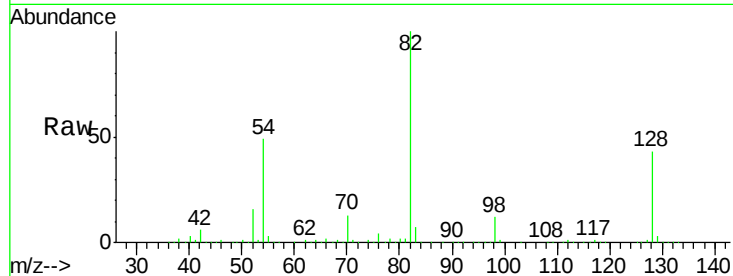
#23
Nitrobenzene-d5
Concen: 74.71 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	975992		
128	43.2	30.6	46.0	
54	49.2	43.8	65.6	

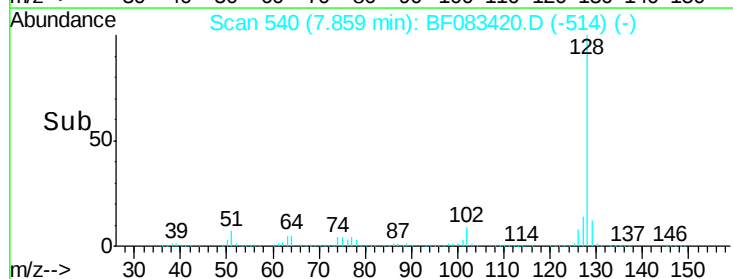
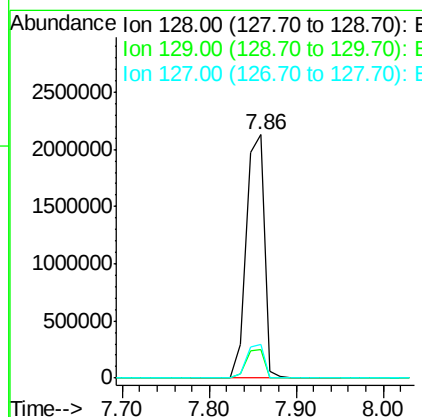
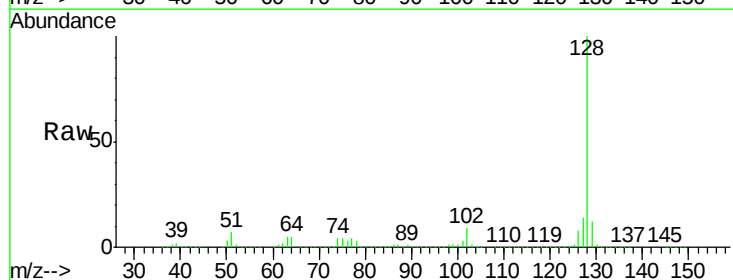
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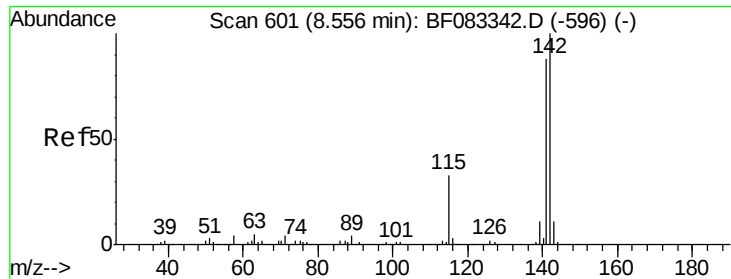
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#31
Naphthalene
Concen: 98.69 ng
RT: 7.86 min Scan# 540
Delta R.T. -0.00 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	3075146		
129	11.5	9.7	14.5	
127	14.0	11.0	16.4	





#37

2-Methylnaphthalene

Concen: 32.10 ng

RT: 8.54 min Scan# 600

Delta R.T. -0.01 min

Lab File: BF083420.D

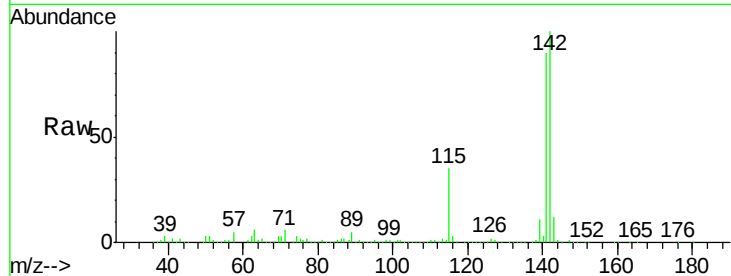
Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

ClientSampleId :

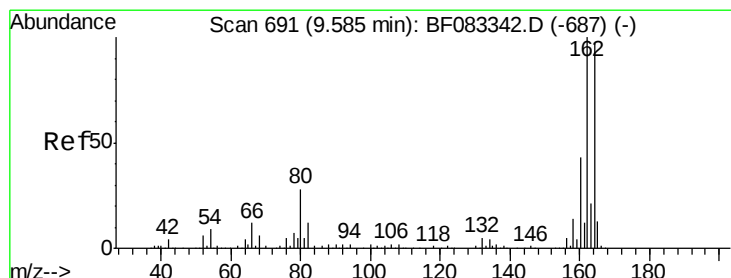
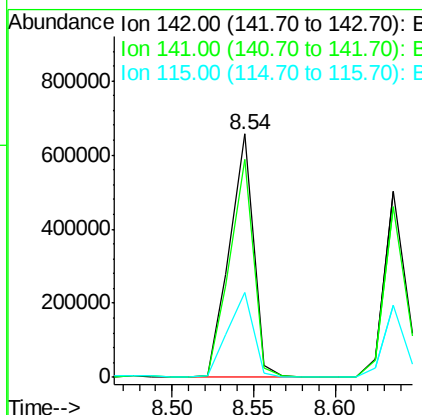
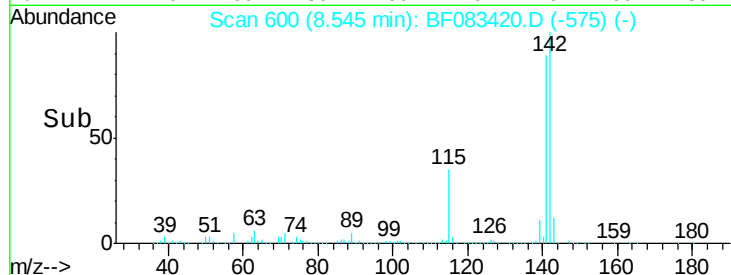
SB-P3WC-06(0-5)



Tot Ion:	142	Resp:	668416
Ion Ratio	Lower	Upper	
142	100		
141	89.5	70.6	105.8
115	34.7	26.2	39.2

Manual Integrations
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#38

Acenaphthene-d10

Concen: 20.00 ng

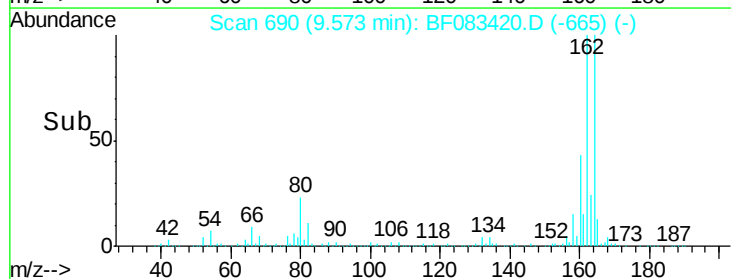
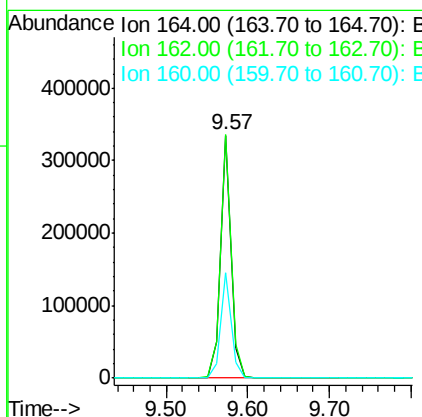
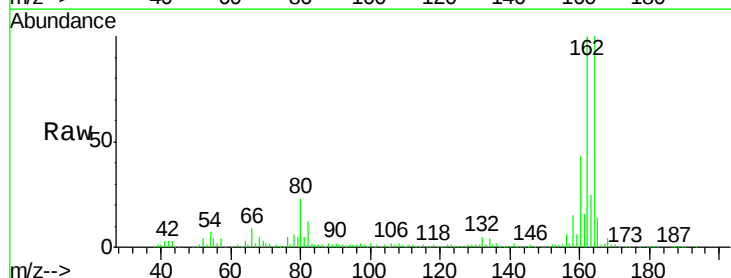
RT: 9.57 min Scan# 690

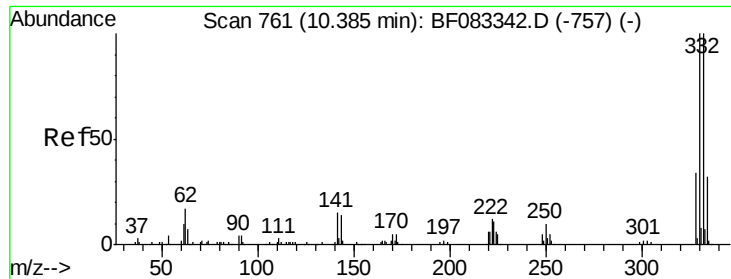
Delta R.T. -0.01 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Tgt Ion:	164	Resp:	297335
Ion Ratio	Lower	Upper	
164	100		
162	100.4	82.6	123.8
160	43.4	35.3	52.9





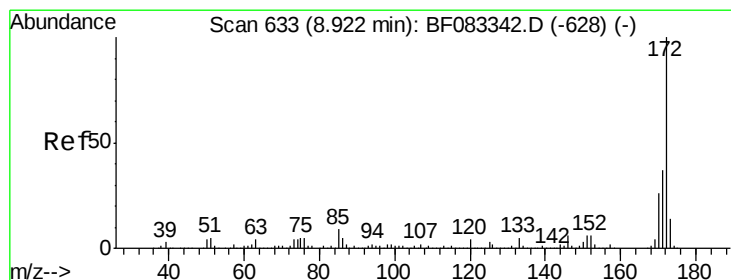
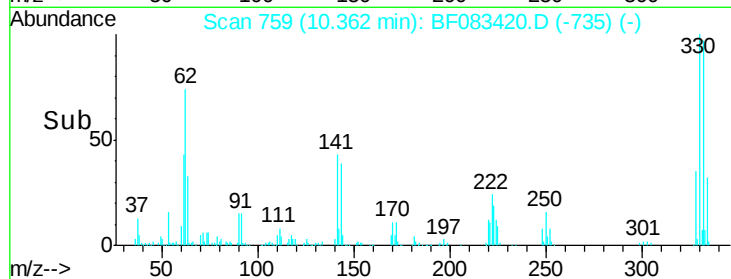
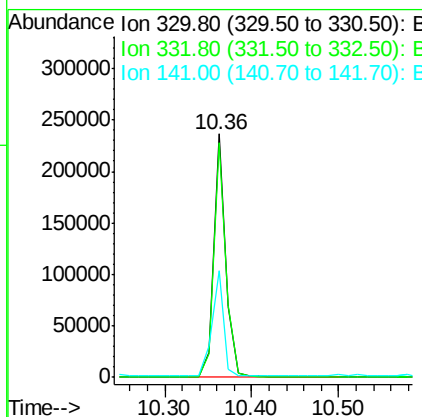
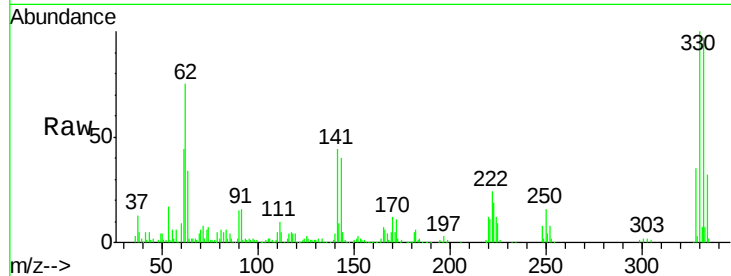
#41
 2,4,6-Tribromophenol
 Concen: 77.88 ng
 RT: 10.36 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.2	77.8	116.6	
141	41.8	29.4	44.0	

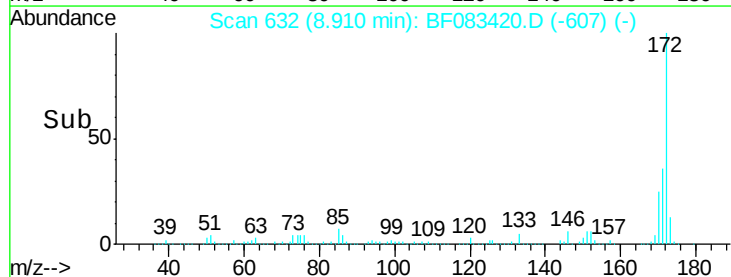
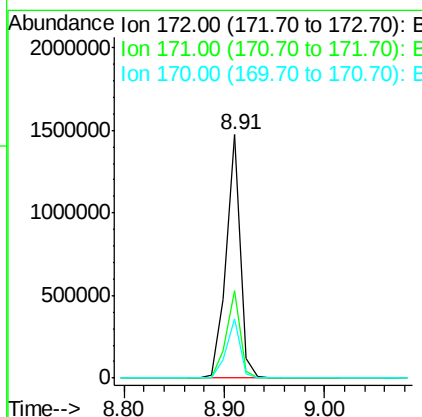
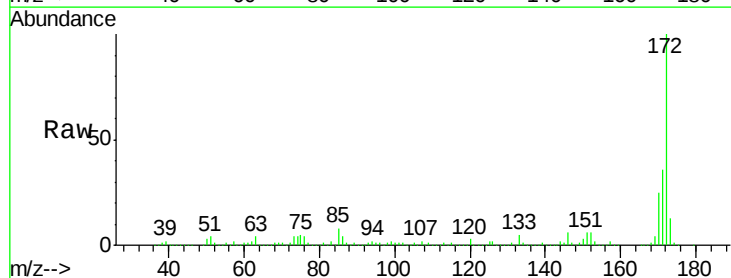
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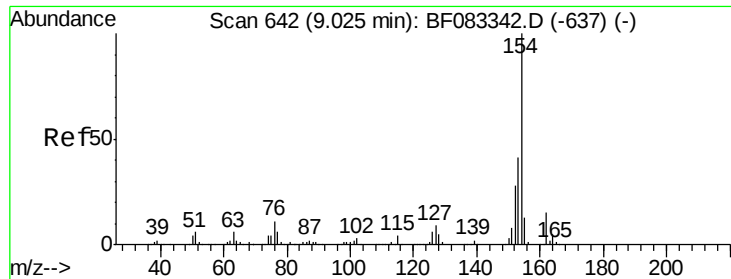
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#44
 2-Fluorobiphenyl
 Concen: 69.06 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.9	29.4	44.0	
170	24.6	20.4	30.6	





#45

1,1'-Biphenyl

Concen: 5.36 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

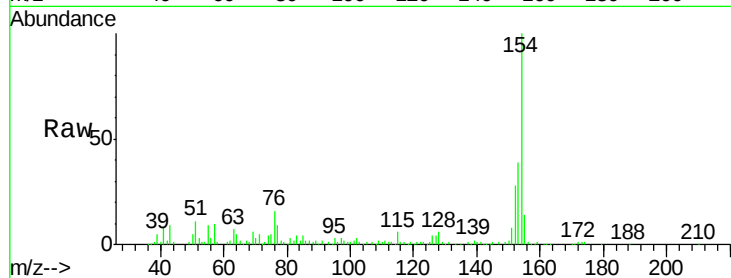
ClientSampleId :

SB-P3WC-06(0-5)

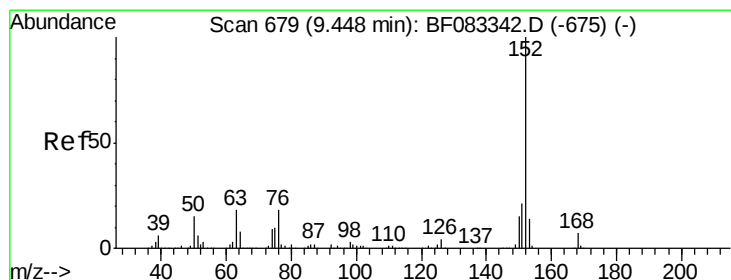
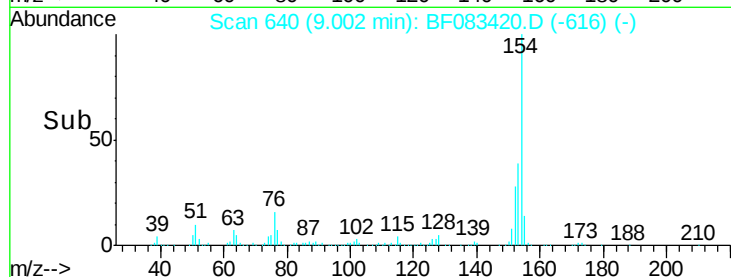
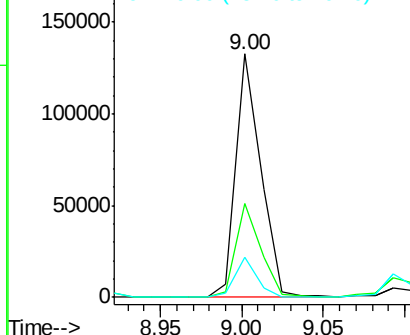
Tot Ion:	154	Resp:	139710
Ion Ratio	Lower	Upper	
154	100		
153	38.6	20.6	60.6
76	16.4	0.0	30.5

Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 2.22 ng

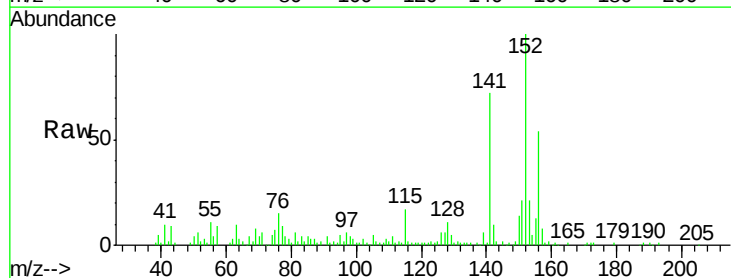
RT: 9.44 min Scan# 678

Delta R.T. -0.01 min

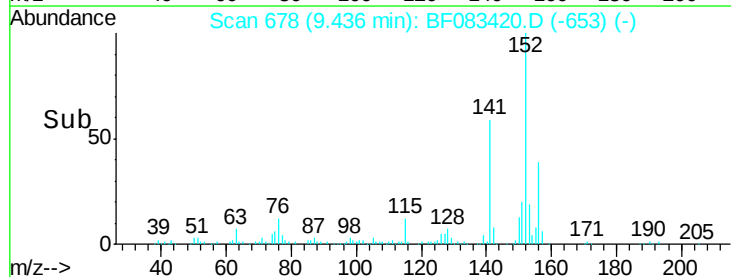
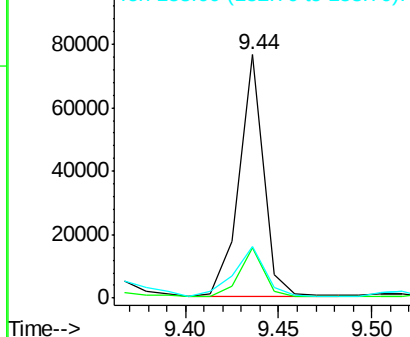
Lab File: BF083420.D

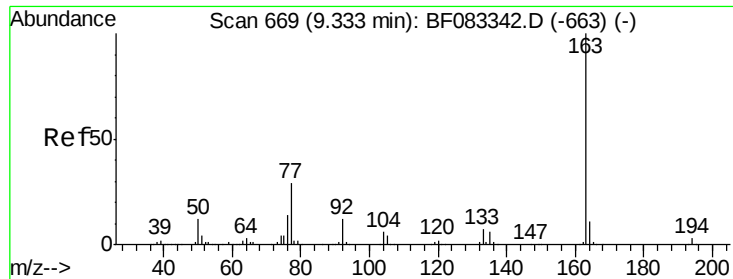
Acq: 2 Dec 2015 16:12

Tgt Ion:	152	Resp:	70214
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.7	25.1
153	21.1	11.2	16.8#



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





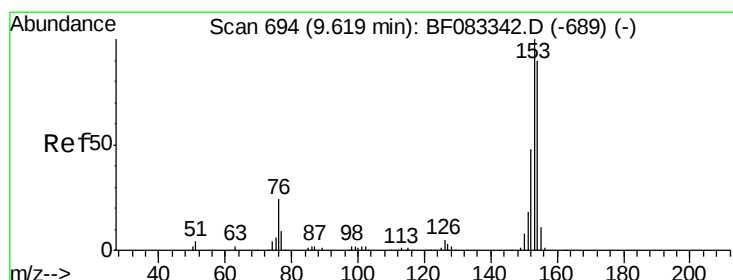
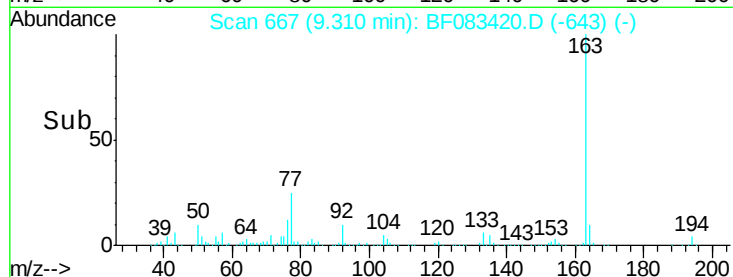
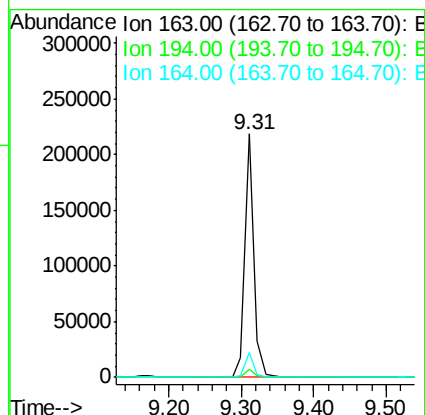
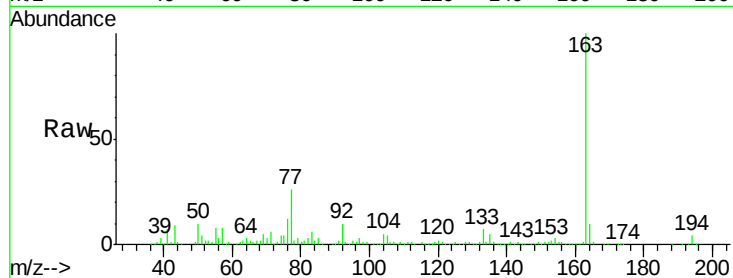
#49
Dimethylphthalate
Concen: 7.93 ng
RT: 9.31 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
163	100	191627		
194	3.5	2.7	4.1	
164	10.3	8.8	13.2	

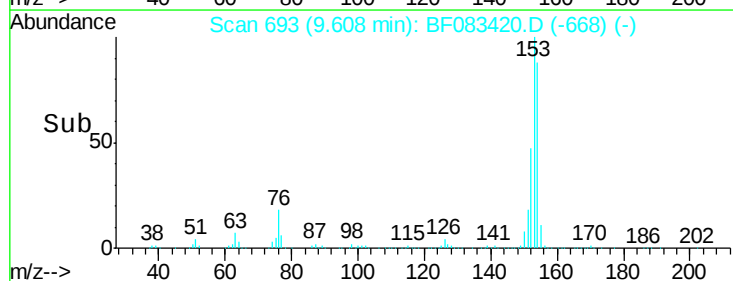
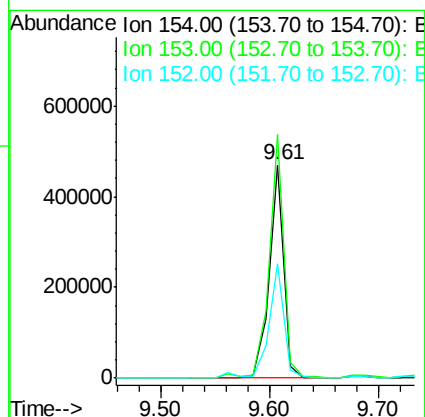
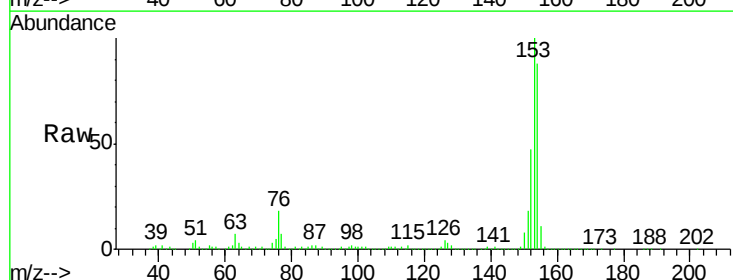
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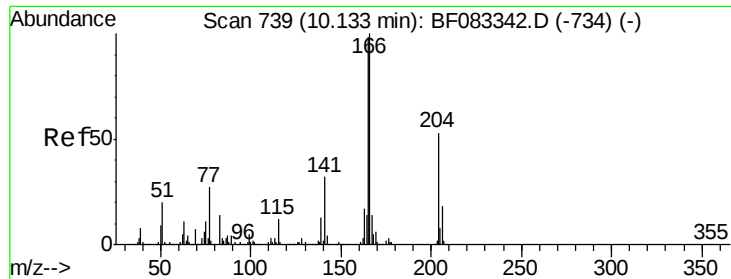
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#51
Acenaphthene
Concen: 23.52 ng
RT: 9.61 min Scan# 693
Delta R.T. -0.01 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	438418		
153	114.2	89.3	133.9	
152	53.7	42.5	63.7	





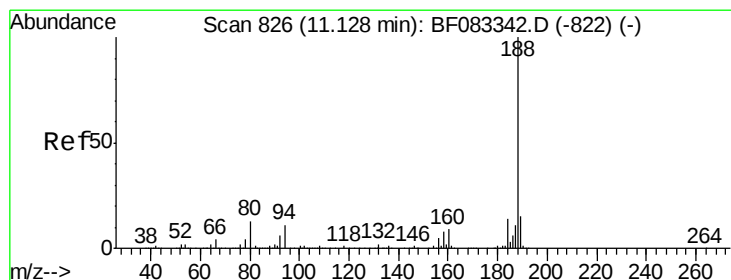
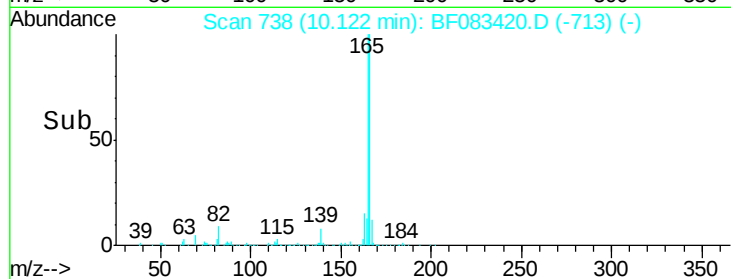
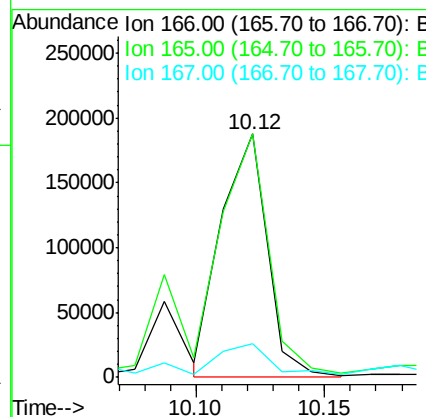
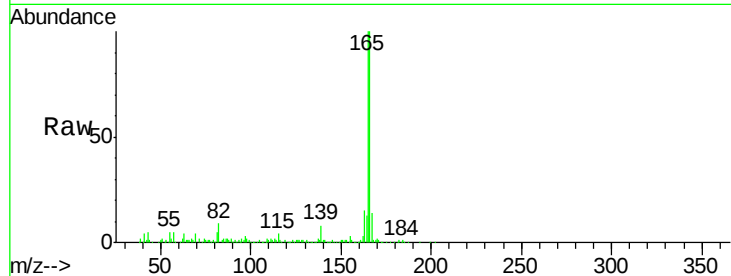
#57
Fluorene
 Concen: 10.90 ng/ml
 RT: 10.12 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(0-5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100				
165	100.1	78.3	117.5		
167	13.8	11.1	16.7		

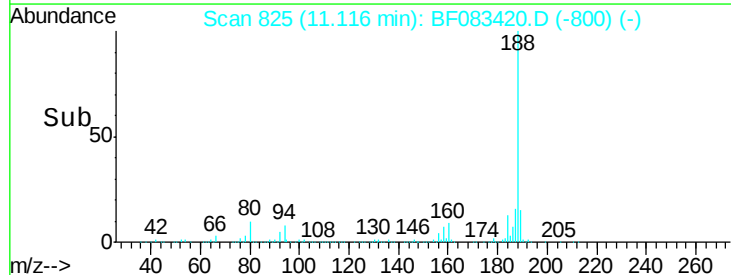
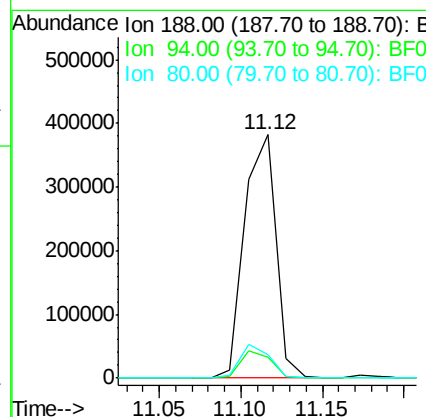
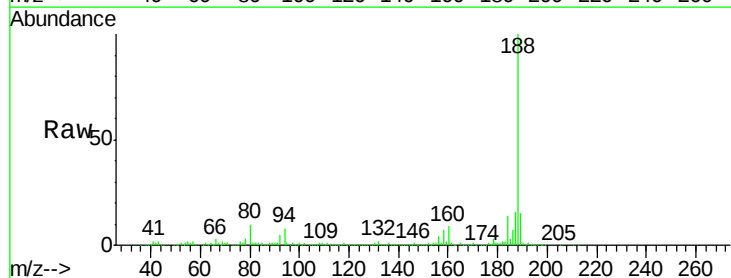
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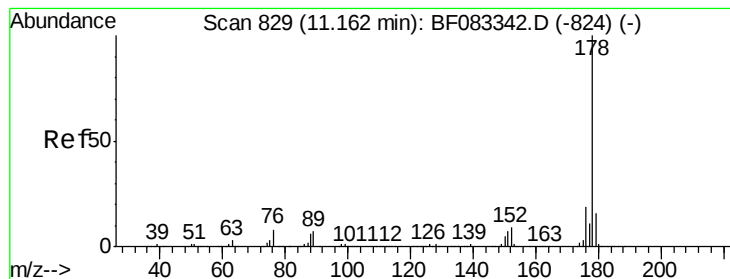
Mmdadoda
 12/3/2015 7:09:35 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.12 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	8.3	8.7	13.1#		
80	9.7	10.3	15.5#		





#70

Phenanthrene

Concen: 38.90 ng

RT: 11.14 min Scan# 827

Delta R.T. -0.02 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-06(0-5)

Tot Ion:178 Resp: 1175197

Ion Ratio Lower Upper

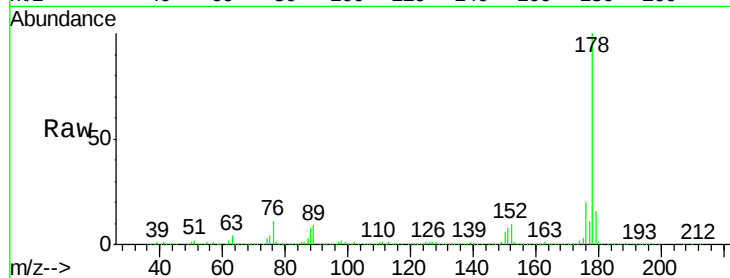
178 100

176 19.9 15.3 22.9

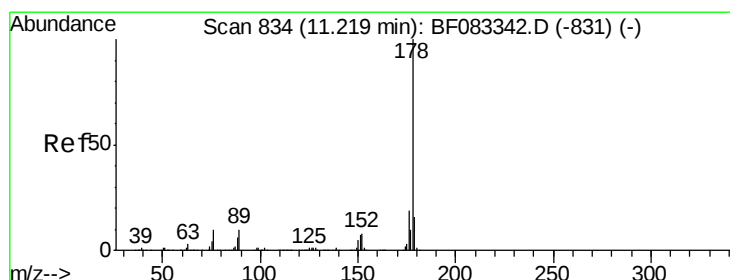
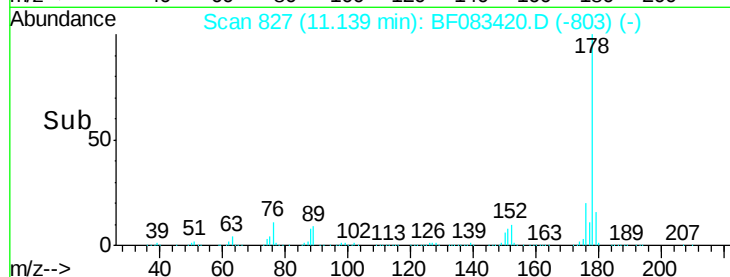
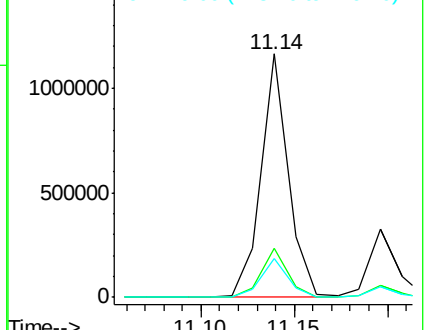
179 16.0 12.4 18.6

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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: 10.40 ng

RT: 11.20 min Scan# 832

Delta R.T. -0.02 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

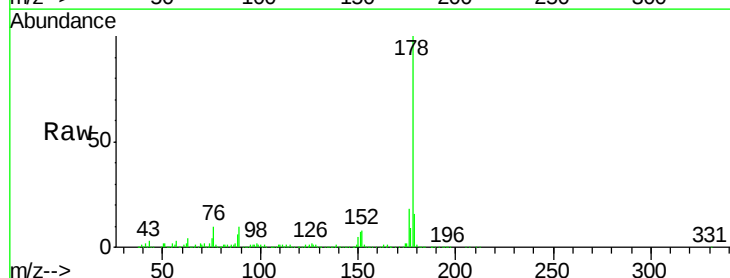
Tgt Ion:178 Resp: 316340

Ion Ratio Lower Upper

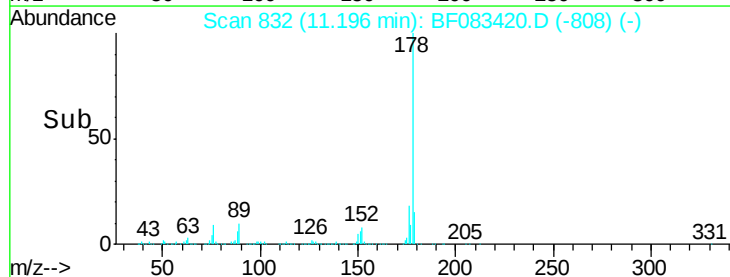
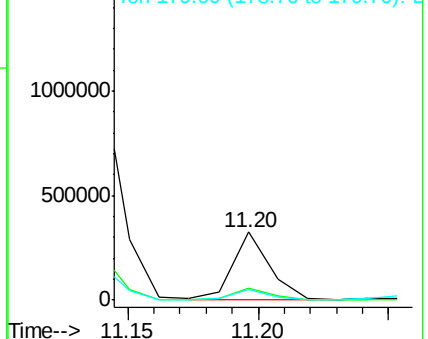
178 100

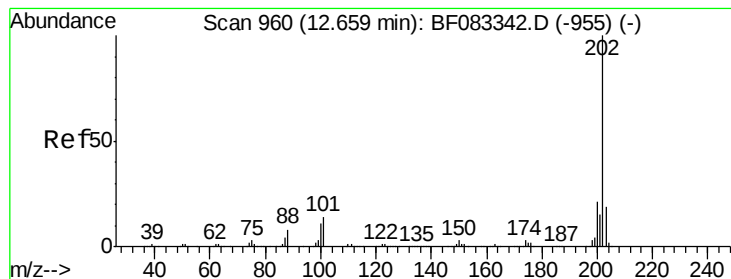
176 17.8 15.6 23.4

179 15.5 12.8 19.2



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





#74

Fluoranthene

Concen: 14.77 ng

RT: 12.64 min Scan# 958

Delta R.T. -0.02 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

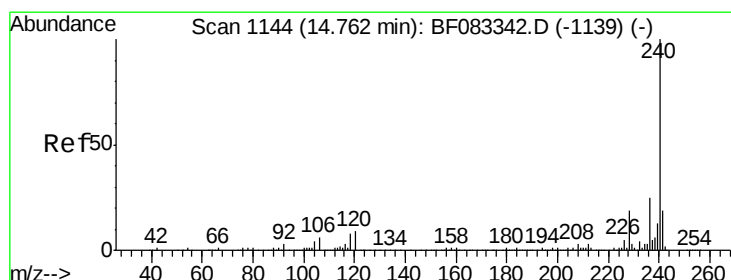
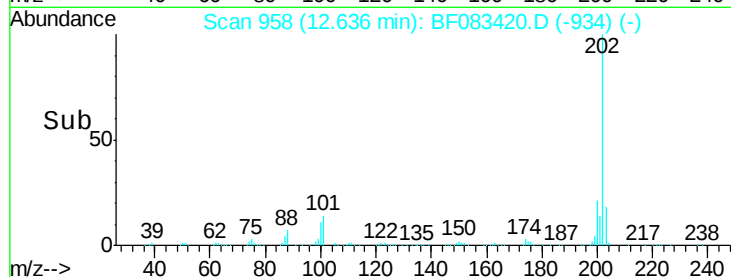
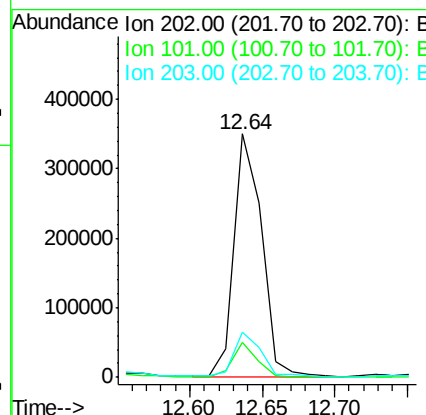
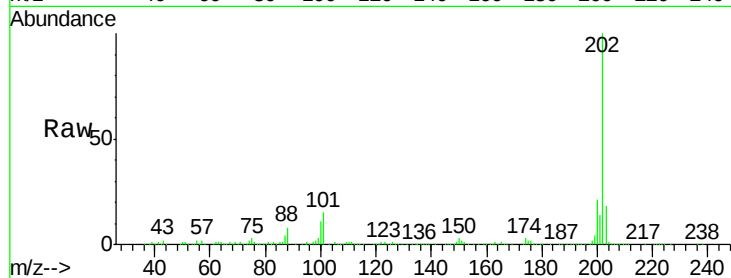
ClientSampleId :

SB-P3WC-06(0-5)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	14.5	0.0	34.5
203	18.4	0.0	38.7

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#75

Chrysene-d12

Concen: 20.00 ng

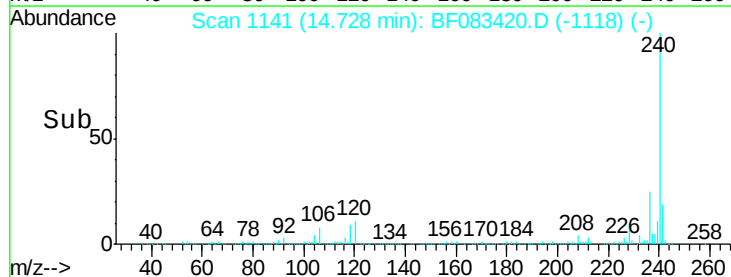
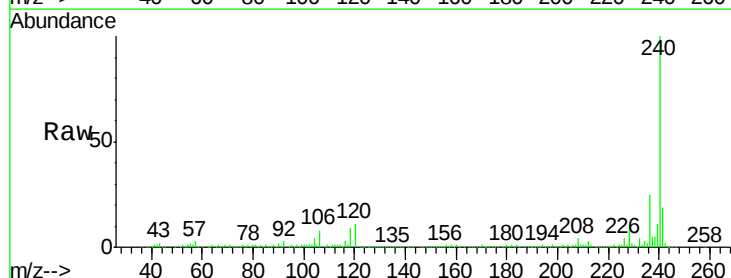
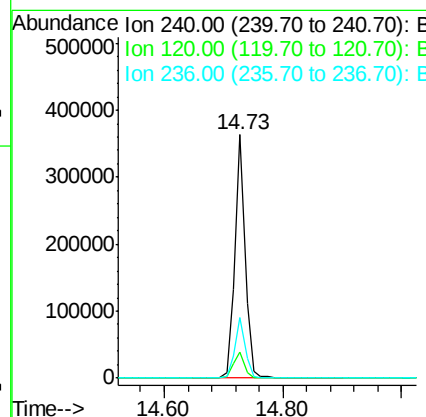
RT: 14.73 min Scan# 1141

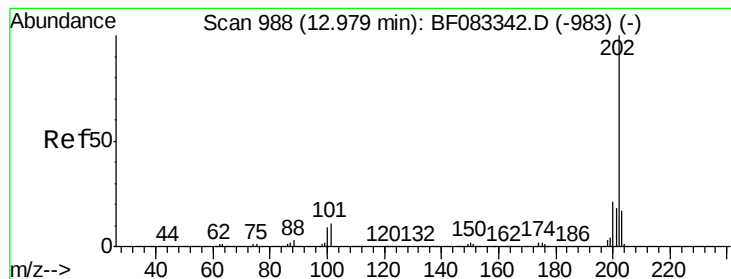
Delta R.T. -0.03 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	10.6	6.9	10.3#
236	25.0	19.8	29.6





#77

Pvrene

Concen: 21.51 ng

RT: 12.95 min Scan# 985

Delta R.T. -0.03 min

Lab File: BF083420.D

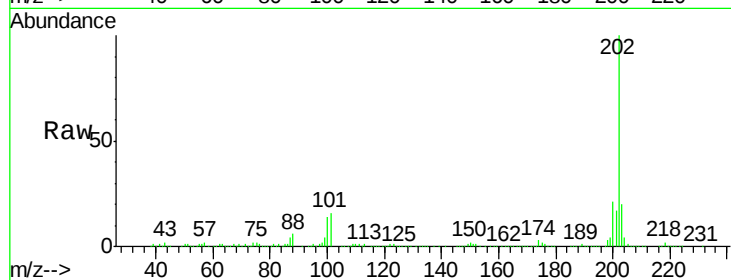
Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

ClientSampleId :

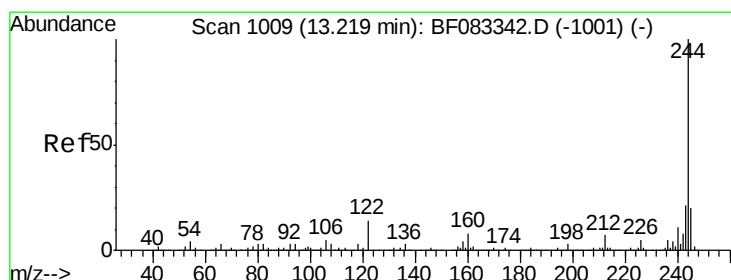
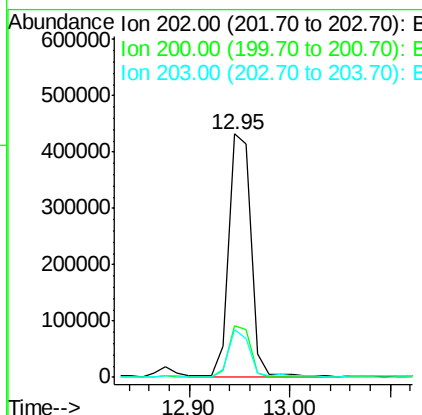
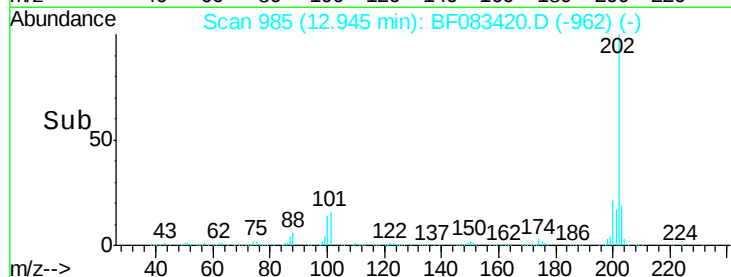
SB-P3WC-06(0-5)



Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
200	21.1	16.9	25.3		
203	19.5	13.9	20.9		

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#78

Terphenyl-d14

Concen: 74.64 ng

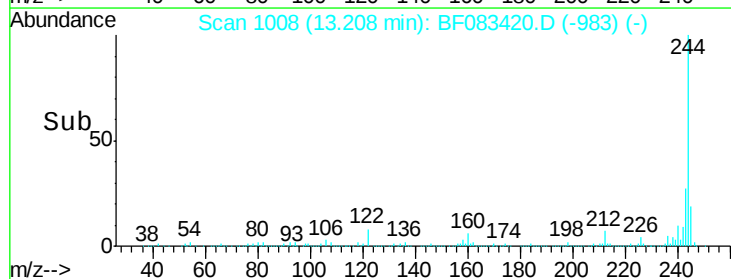
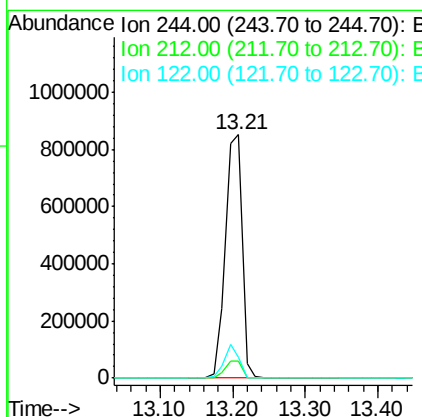
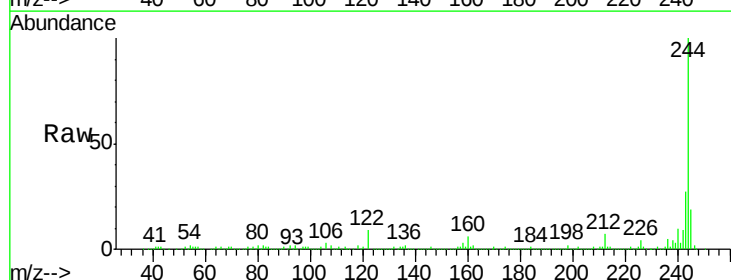
RT: 13.21 min Scan# 1008

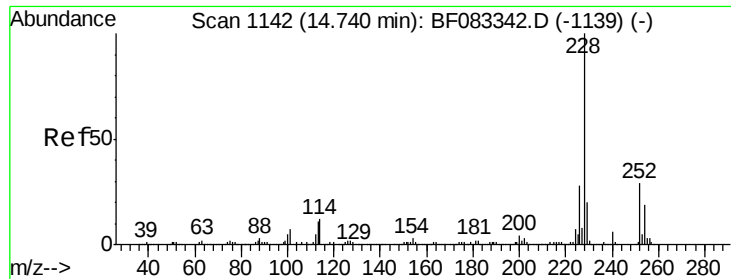
Delta R.T. -0.01 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
244	100				
212	7.0	5.8	8.8		
122	8.5	11.0	16.4		





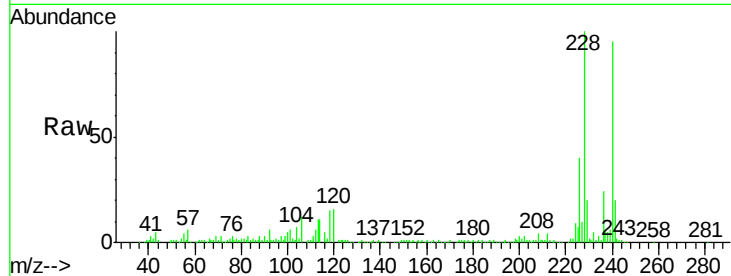
#80
Benzo(a)anthracene
Concen: 7.48 ng m
RT: 14.72 min Scan# 1140
Delta R.T. -0.02 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(0-5)

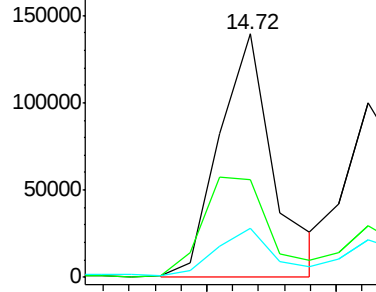
Tot Ion	Ratio	Resp	Lower	Upper
228	100	200868		
226	40.4	22.2	33.4#	
229	20.1	16.1	24.1	

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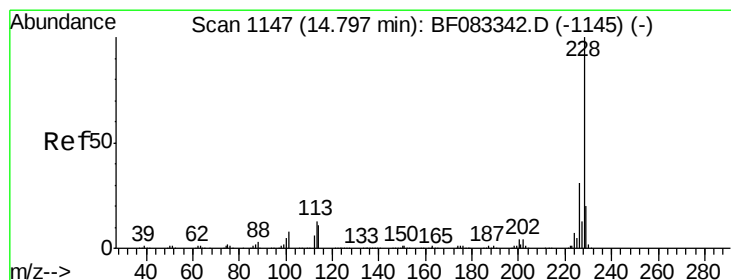
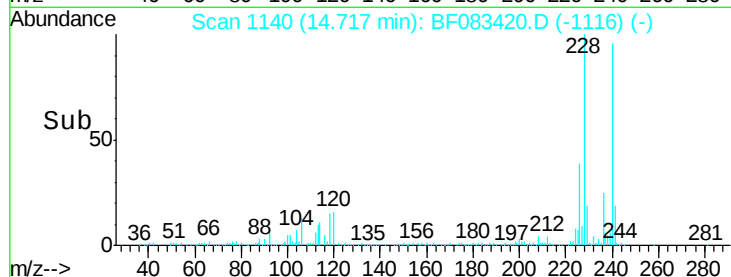
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

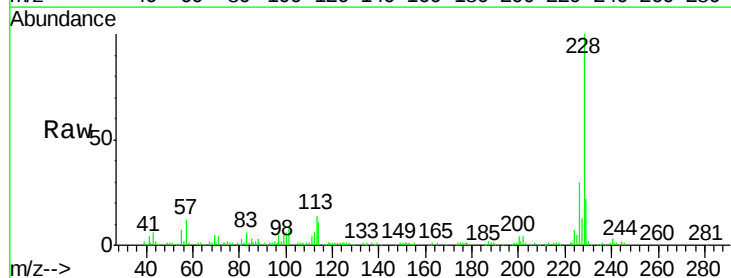


Time-->

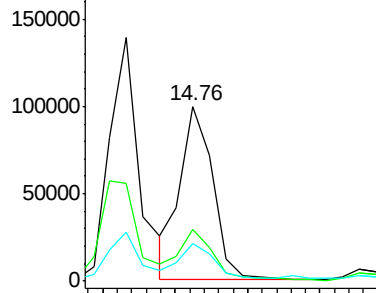


#82
Chrysene
Concen: 6.06 ng
RT: 14.76 min Scan# 1144
Delta R.T. -0.03 min
Lab File: BF083420.D
Acq: 2 Dec 2015 16:12

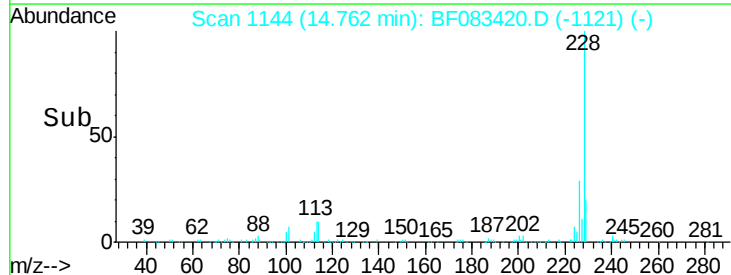
Tgt Ion	Ratio	Resp	Lower	Upper
228	100	157180		
226	29.7	24.6	37.0	
229	21.5	16.2	24.2	

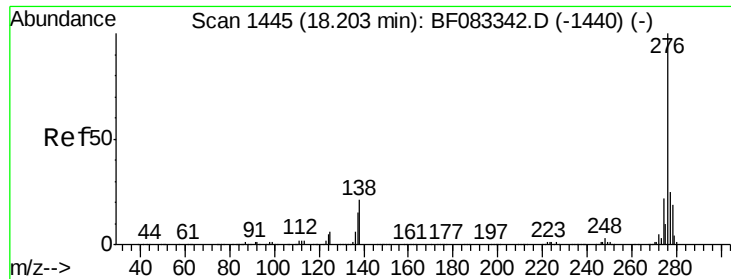


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time-->





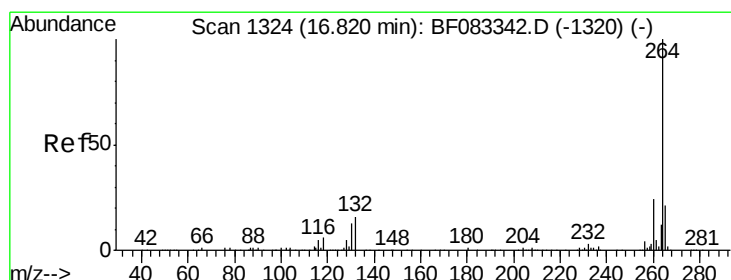
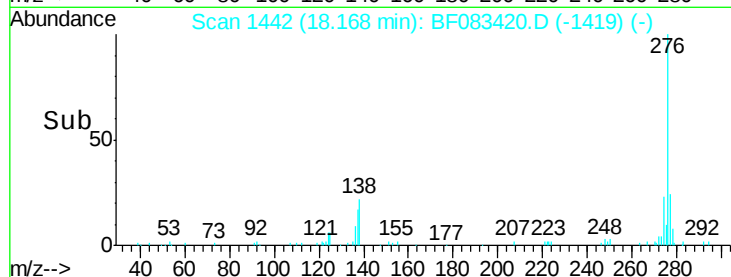
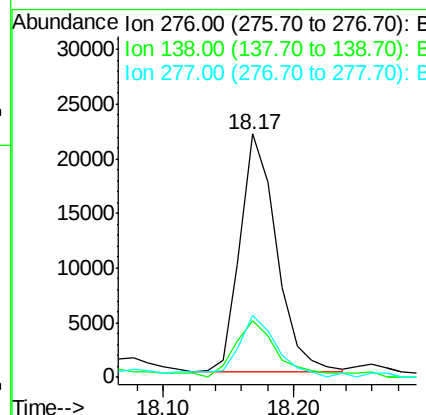
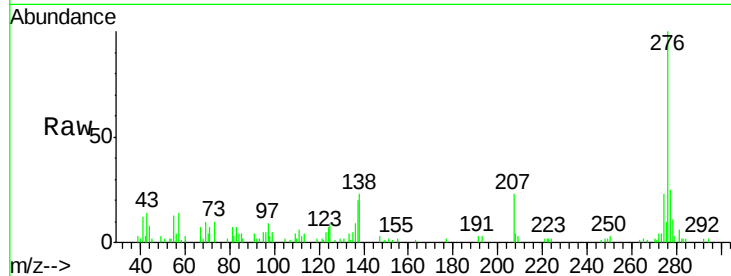
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.27 ng
 RT: 18.17 min Scan# 1442
 Delta R.T. -0.03 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(0-5)

Tot Ion:	276	Resp:	42825
Ion Ratio	Lower	Upper	
276	100		
138	29.6	21.2	31.8
277	26.5	20.0	30.0

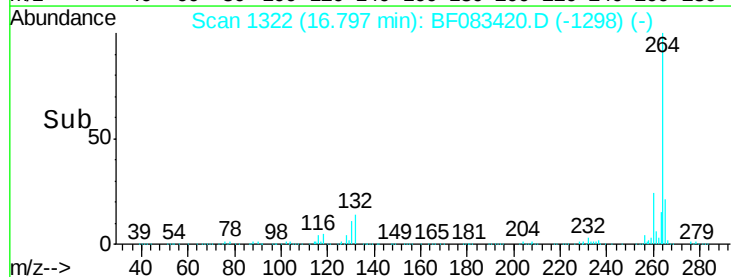
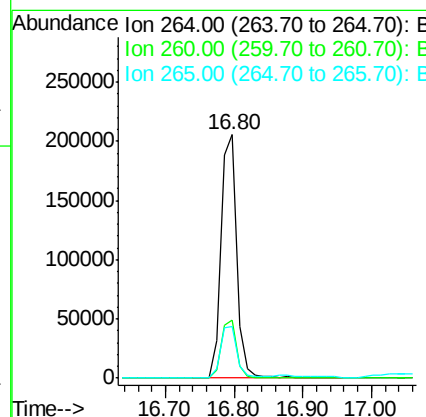
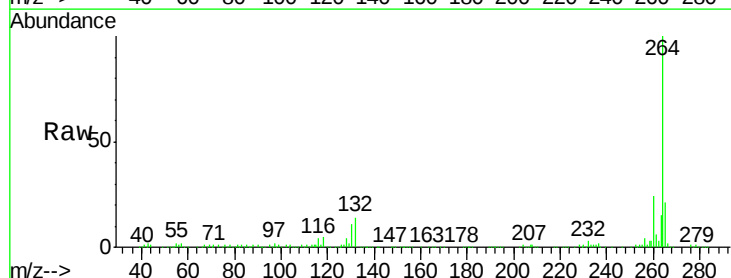
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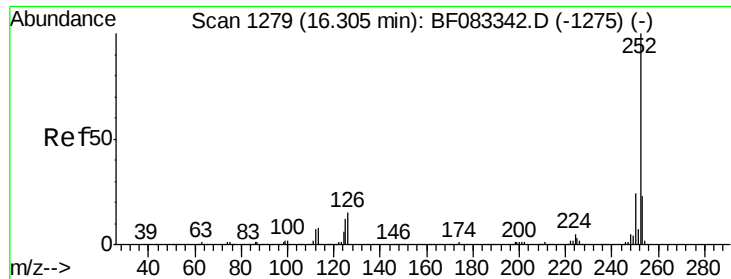
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.80 min Scan# 1322
 Delta R.T. -0.02 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Tgt Ion:	264	Resp:	335863
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.0	28.4
265	21.2	16.8	25.2





#87

Benzo(b)fluoranthene

Concen: 4.78 ng

RT: 16.28 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BF083420.D

Acq: 2 Dec 2015 16:12

Instrument :

BNA_F

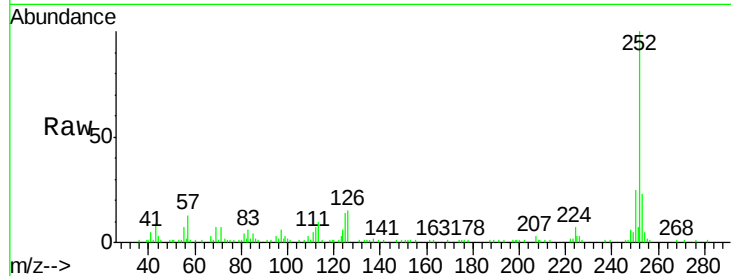
ClientSampleId :

SB-P3WC-06(0-5)

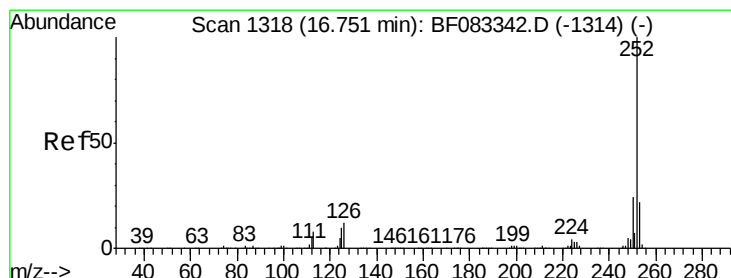
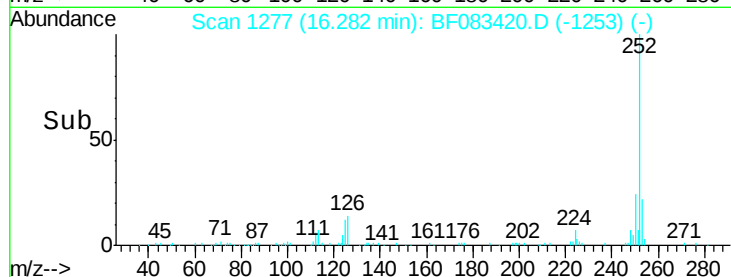
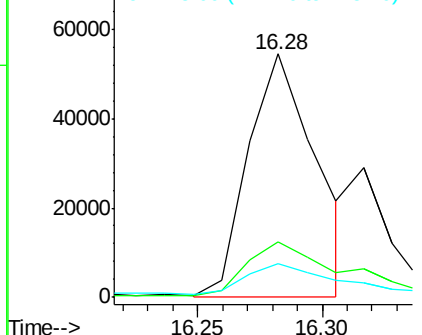
Tot Ion:	252	Resp:	102964
Ion Ratio	Lower	Upper	
252	100		
253	22.8	18.4	27.6
125	14.0	9.6	14.4

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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: 5.59 ng

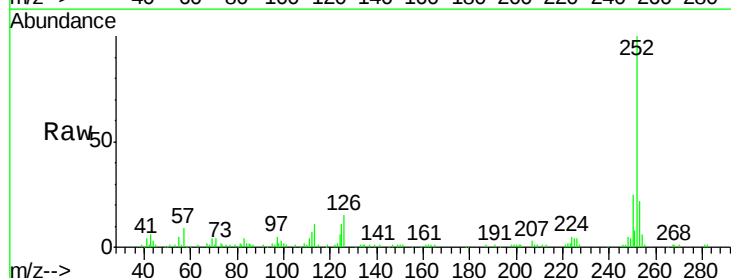
RT: 16.72 min Scan# 1315

Delta R.T. -0.03 min

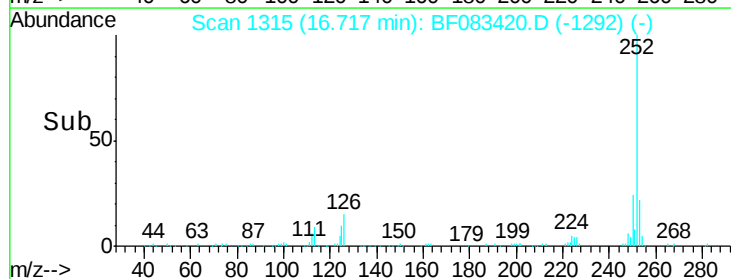
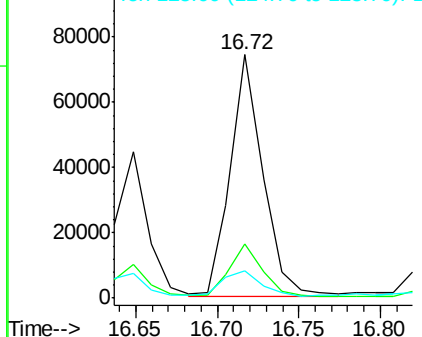
Lab File: BF083420.D

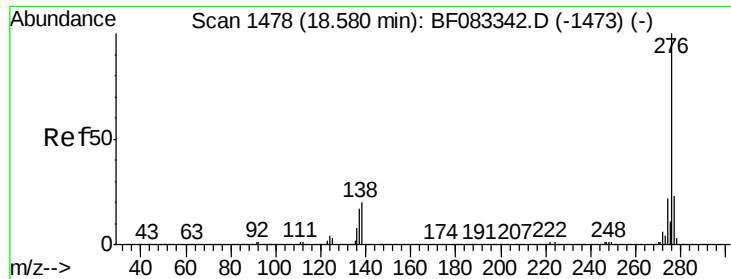
Acq: 2 Dec 2015 16:12

Tgt Ion:	252	Resp:	103480
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.5	26.3
125	11.2	7.8	11.8



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





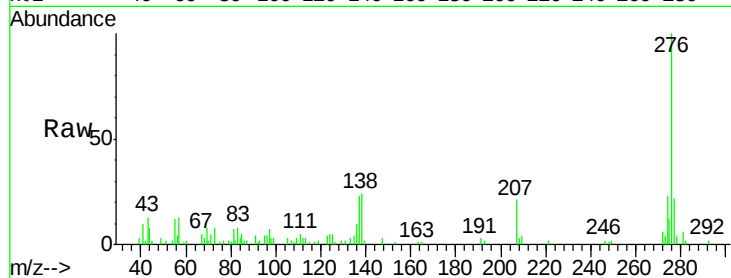
#91
 Benzo(a,h,i)perylene
 Concen: 3.30 ng
 RT: 18.53 min Scan# 1474
 Delta R.T. -0.05 min
 Lab File: BF083420.D
 Acq: 2 Dec 2015 16:12

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(0-5)

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.9	18.6	28.0
138	24.1	16.1	24.1

Manual Integrations
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 12/3/2015 7:09:35 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

