

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
 Data File : BF084810.D
 Acq On : 4 Feb 2016 3:12
 Operator : SJ/IZ
 Sample : H1312-04
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B036(25-27)

Manual Integrations
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Quant Time: Feb 04 05:18:00 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	181225	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	771696	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	355426	20.00	ng	-0.01
63) Phenanthrene-d10	11.21	188	627720	20.00	ng	0.00
75) Chrysene-d12	13.84	240	462174	20.00	ng	0.00
86) Perylene-d12	15.21	264	359644	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	1011071	86.90	ng	0.00
7) Phenol-d6	6.34	99	1529857	106.06	ng	0.00
23) Nitrobenzene-d5	7.25	82	839488	61.28	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	287470	77.54	ng	-0.01
44) 2-Fluorobiphenyl	9.06	172	1503006	66.18	ng	0.00
78) Terphenyl-d14	12.80	244	1282378	62.88	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.00	128	505495	13.06	ng	99
37) 2-Methylnaphthalene	8.68	142	86615	3.58	ng	96
49) Dimethylphthalate	9.45	163	318060	11.75	ng	# 90
51) Acenaphthene	9.76	154	96518	4.18	ng	98
54) Dibenzofuran	9.93	168	115018	4.08	ng	98
57) Fluorene	10.27	166	130185	5.53	ng	97
70) Phenanthrene	11.23	178	1139722	32.74	ng	98
71) Anthracene	11.28	178	308000	8.78	ng	99
72) Carbazole	11.44	167	103873	3.40	ng	99
74) Fluoranthene	12.41	202	764286	21.69	ng	99
77) Pyrene	12.64	202	805390	22.76	ng	99
80) Benzo(a)anthracene	13.83	228	308271m	10.75	ng	
82) Chrysene	13.86	228	287855m	10.35	ng	
85) Indeno(1,2,3-cd)pyrene	16.49	276	78915	3.60	ng	96
87) Benzo(b)fluoranthene	14.83	252	207387m	8.58	ng	
88) Benzo(k)fluoranthene	14.85	252	77242m	3.87	ng	
89) Benzo(a)pyrene	15.15	252	164310	7.98	ng	# 97
91) Benzo(g,h,i)perylene	16.88	276	82233	4.71	ng	98

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

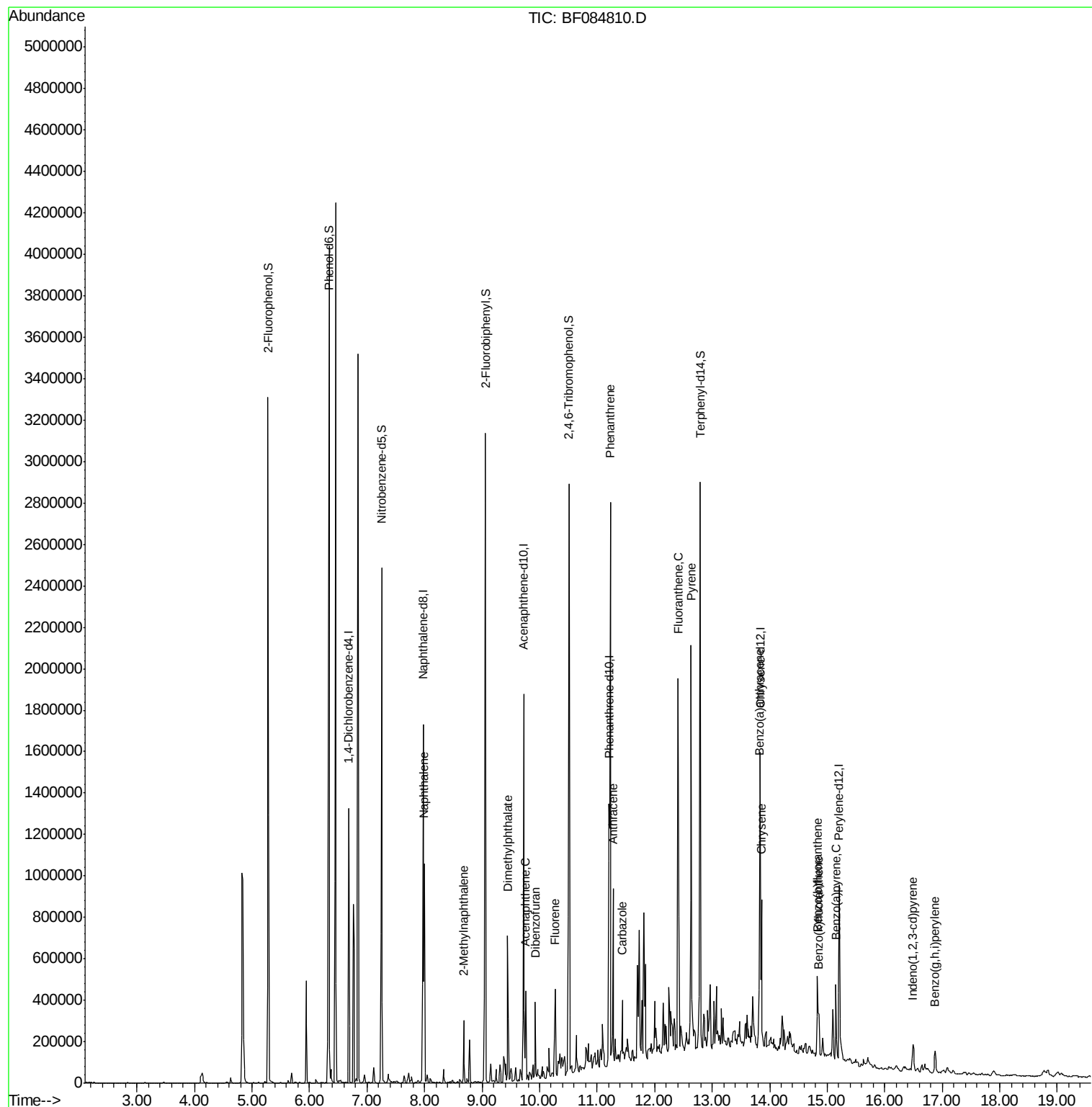
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020316\
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#1

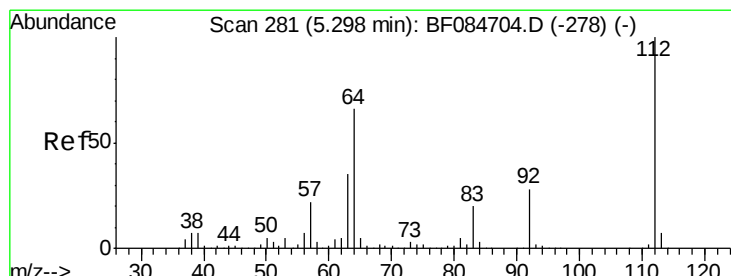
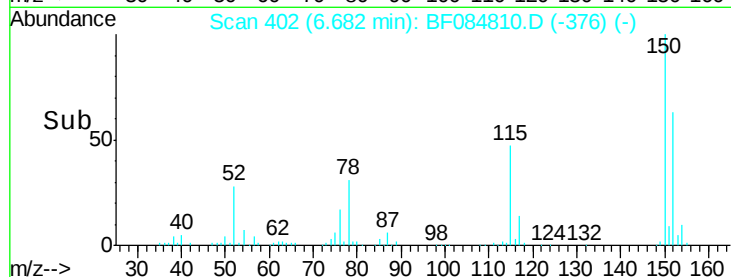
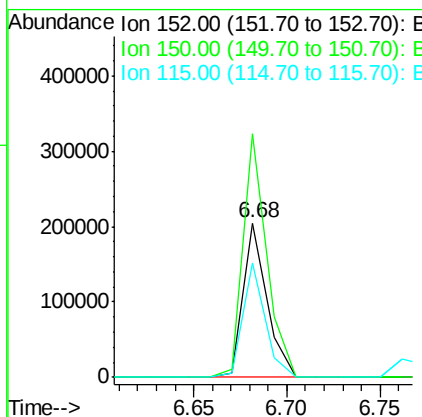
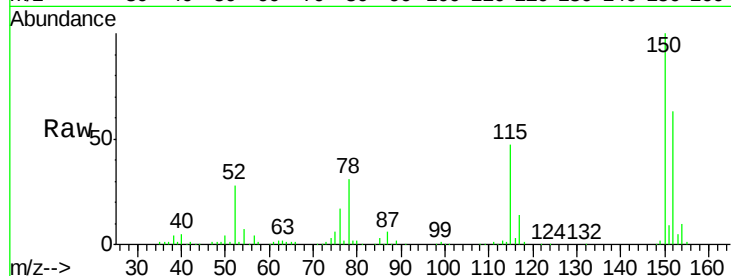
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.68 min Scan# 402
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	123.0	184.4
115	73.9	51.4	77.2

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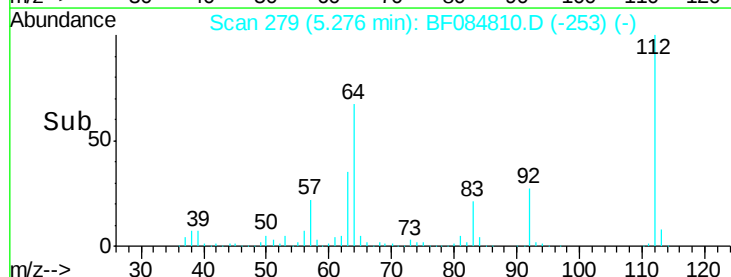
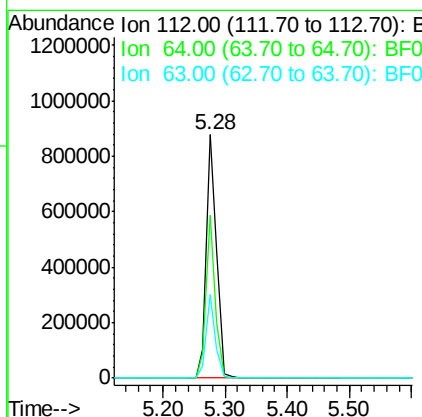
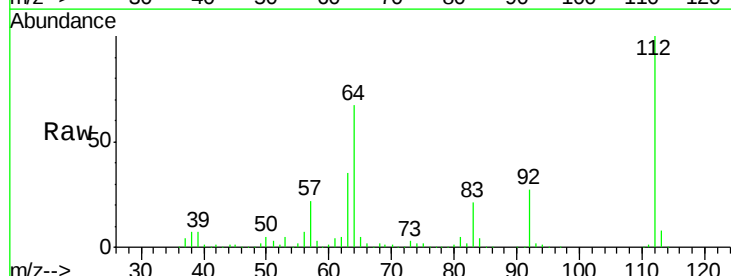
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#5

2-Fluorophenol
Concen: 86.90 ng
RT: 5.28 min Scan# 279
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.0	36.6	55.0#
63	34.5	19.4	29.0#





#7

Phenol-d6

Concen: 106.06 ng

RT: 6.34 min Scan# 372

Delta R.T. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Instrument :

BNA_F

ClientSampleId :

SUP-B036(25-27)

Tot Ion: 99 Resp: 1529857

Ion Ratio Lower Upper

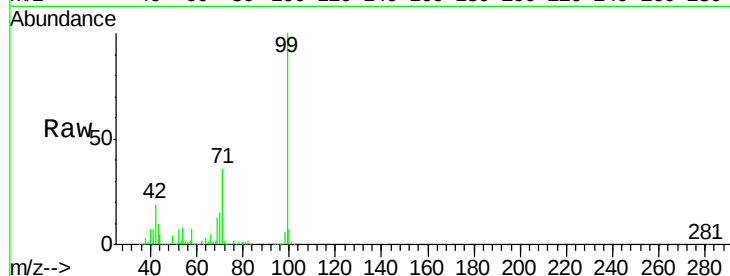
99 100

42 19.2 12.8 19.2

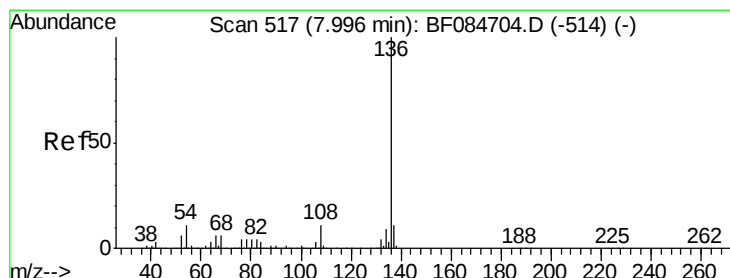
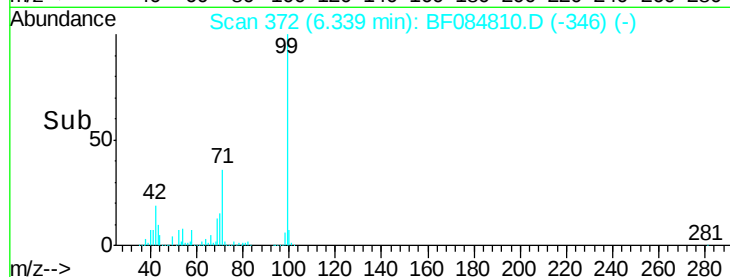
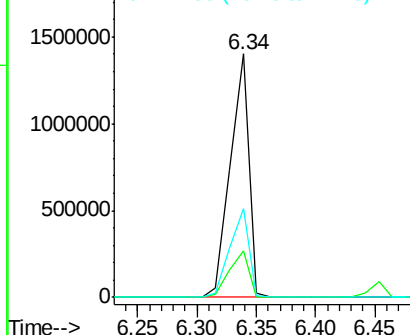
71 36.4 30.9 46.3

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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. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Tgt Ion: 136 Resp: 771696

Ion Ratio Lower Upper

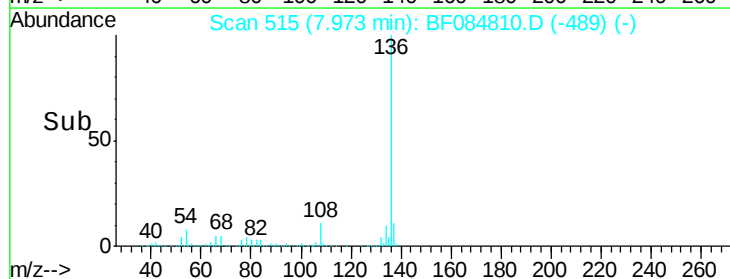
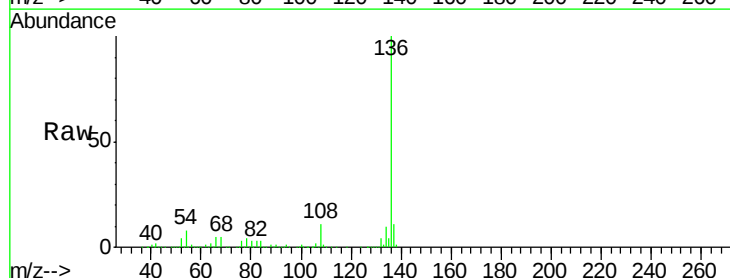
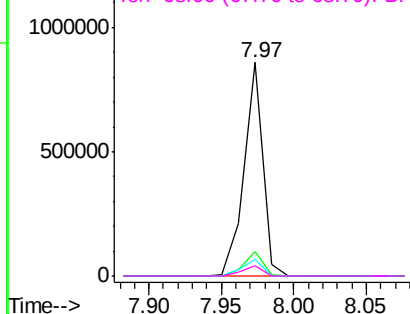
136 100

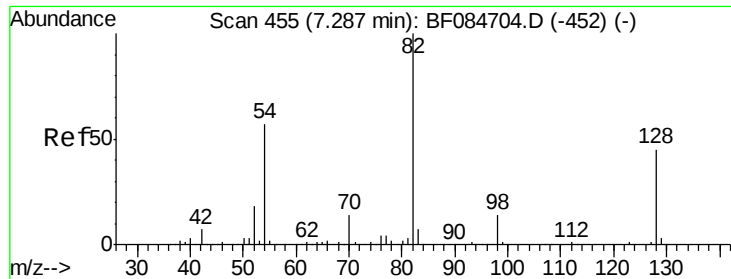
137 11.3 8.7 13.1

54 7.7 5.8 8.8

68 4.5 4.2 6.2

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





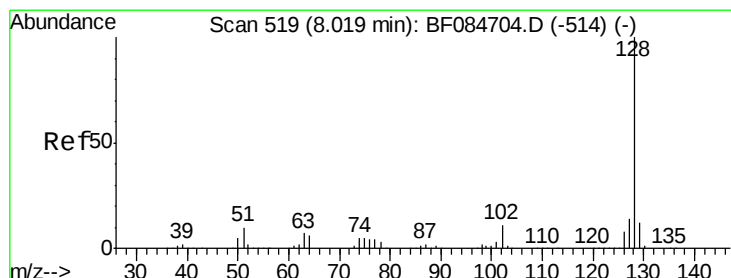
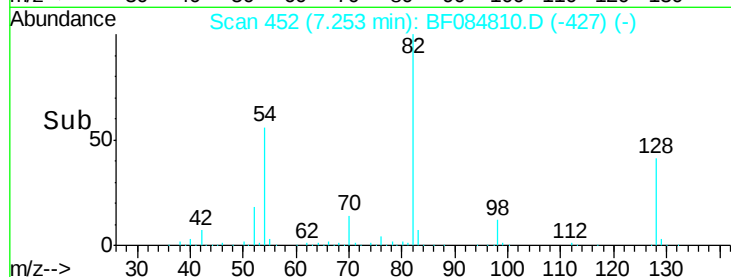
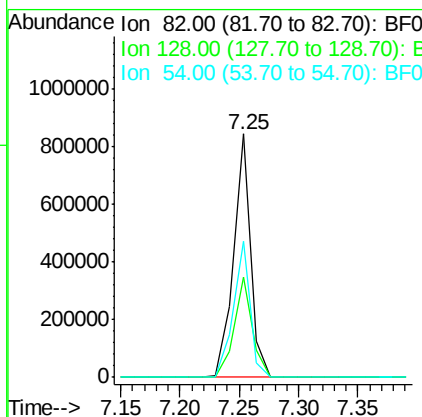
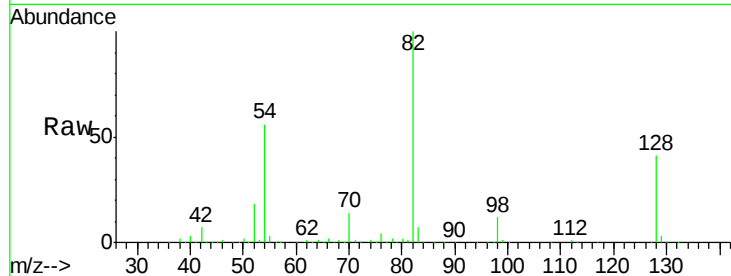
#23
Nitrobenzene-d5
Concen: 61.28 ng
RT: 7.25 min Scan# 452
Delta R.T. -0.01 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	41.1	34.6	51.8	
54	56.1	38.4	57.6	

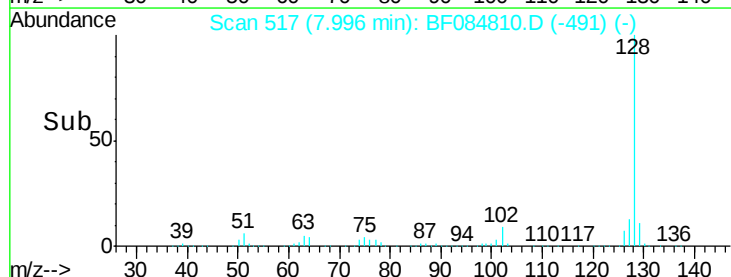
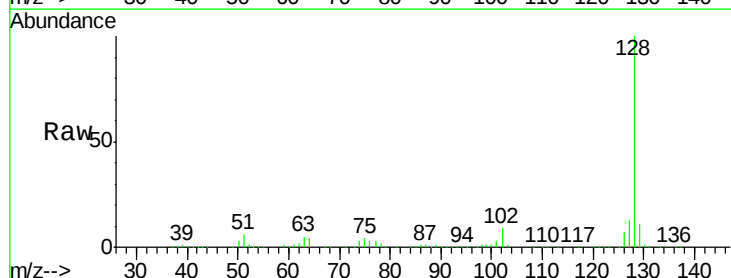
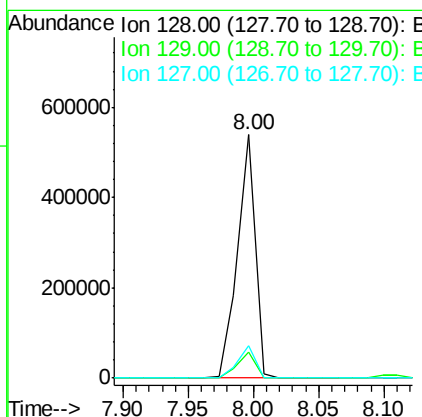
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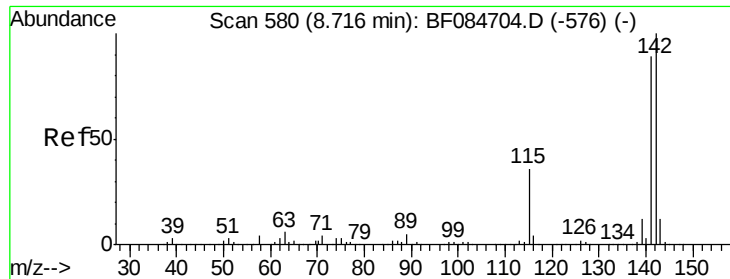
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#31
Naphthalene
Concen: 13.06 ng
RT: 8.00 min Scan# 517
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.8	9.1	13.7	
127	13.3	11.1	16.7	





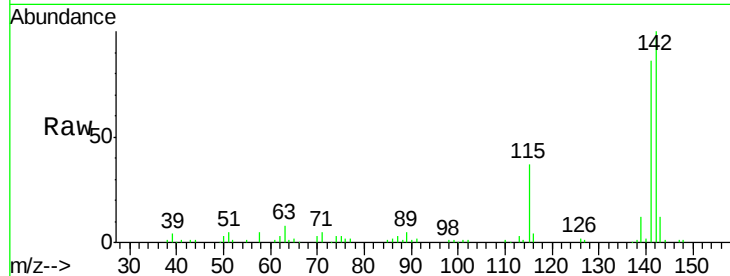
#37
2-Methylnaphthalene
Concen: 3.58 ng
RT: 8.68 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.4	72.4	108.6
115	37.4	27.9	41.9

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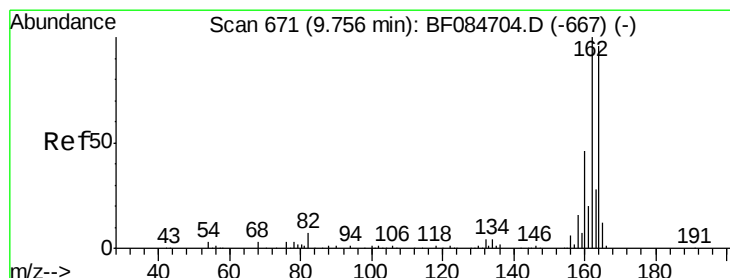
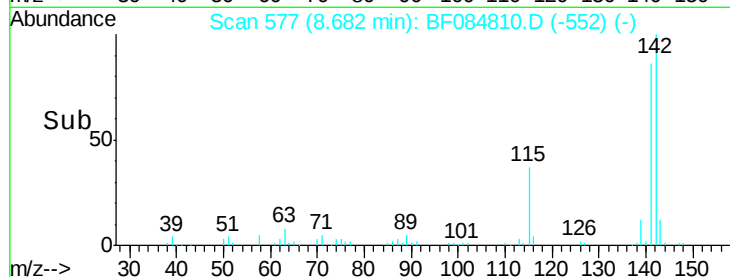
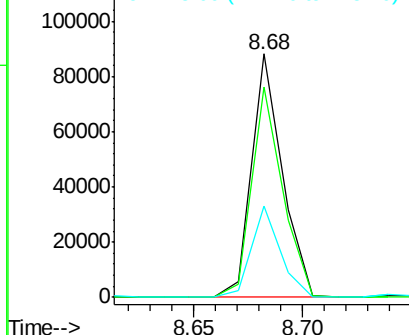


Abundance

Ion 142.00 (141.70 to 142.70): E

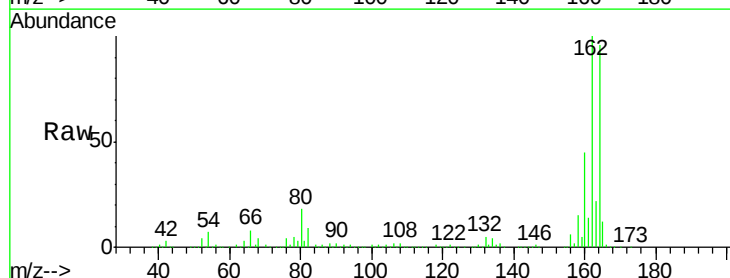
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.2	85.1	127.7
160	47.0	37.5	56.3

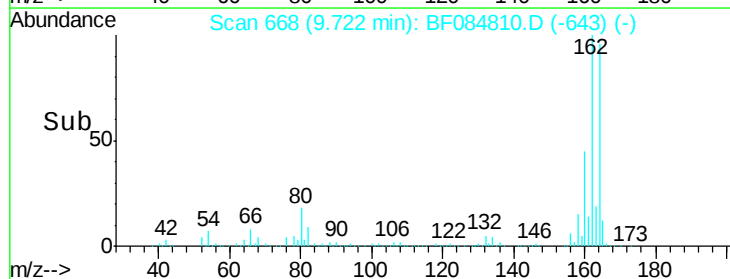
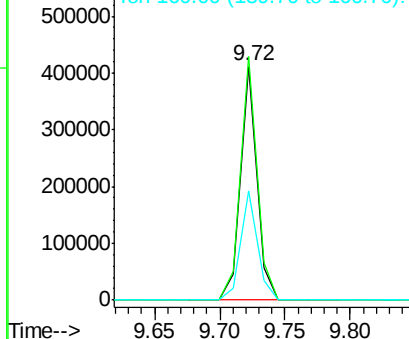


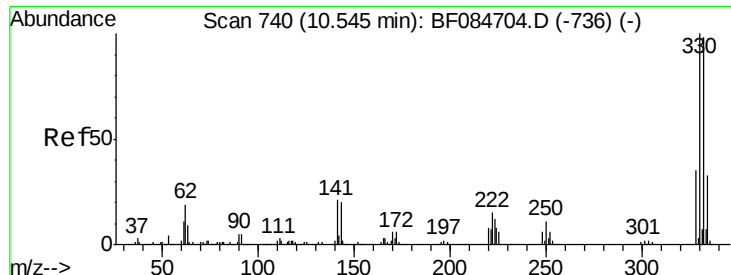
Abundance

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





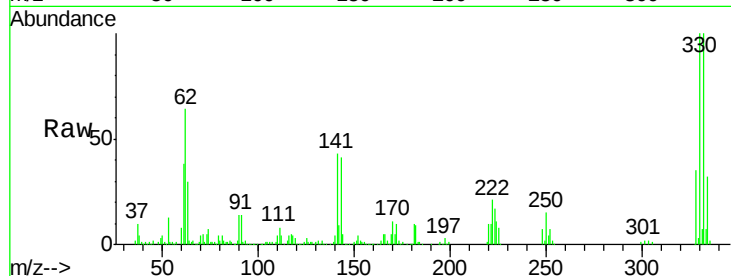
#41
 2,4,6-Tribromophenol
 Concen: 77.54 ng
 RT: 10.51 min Scan# 737
 Delta R.T. -0.01 min
 Lab File: BF084810.D
 Acq: 4 Feb 2016 3:12

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B036(25-27)

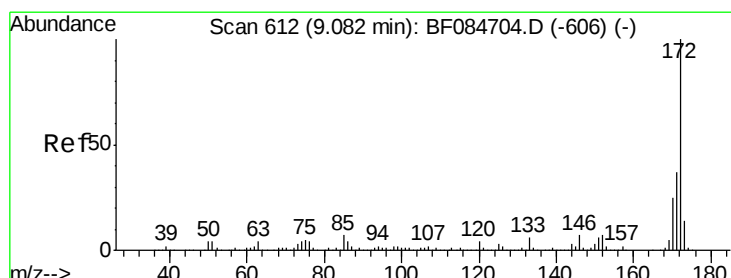
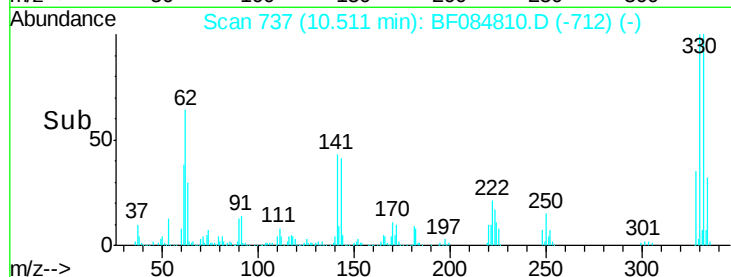
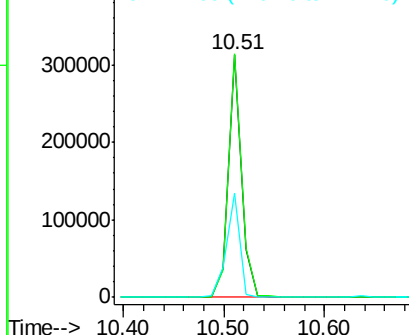
Tot Ion	Ratio	Resp	Lower	Upper
330	100	287470		
332	100.3	76.6	114.8	
141	44.5	27.8	41.6#	

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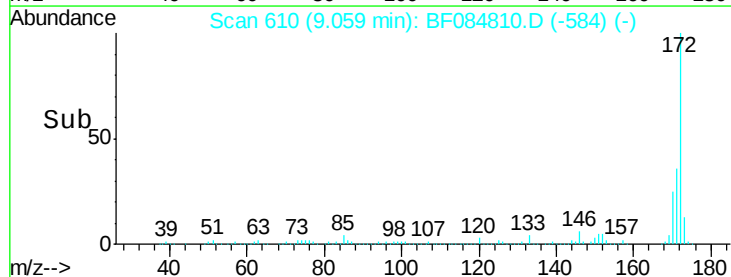
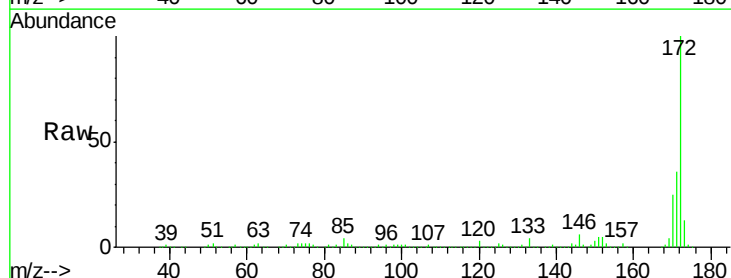
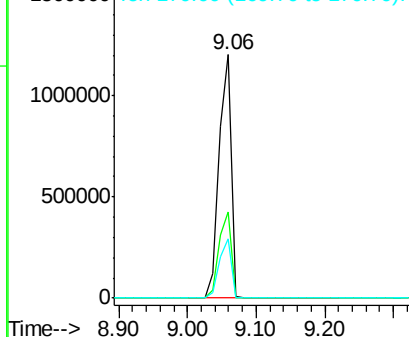
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

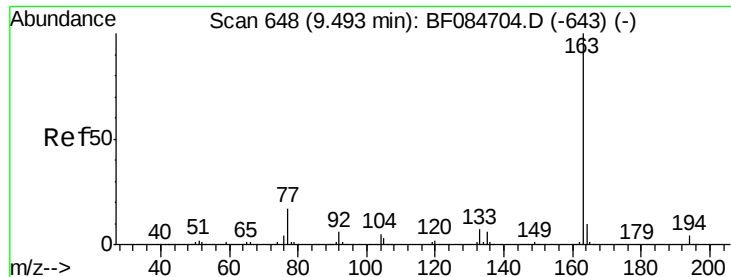


#44
 2-Fluorobiphenyl
 Concen: 66.18 ng
 RT: 9.06 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: BF084810.D
 Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1503006		
171	35.6	28.9	43.3	
170	24.6	18.6	27.8	

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





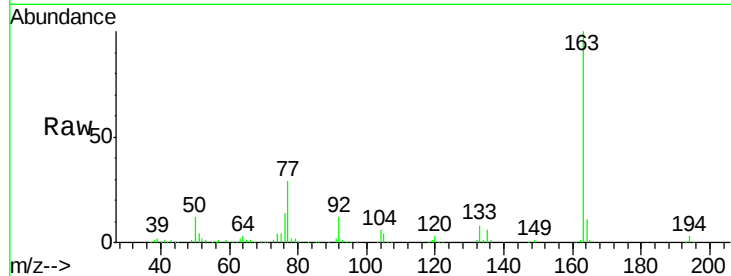
#49
Dimethylphthalate
Concen: 11.75 ng
RT: 9.45 min Scan# 644
Delta R.T. -0.02 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

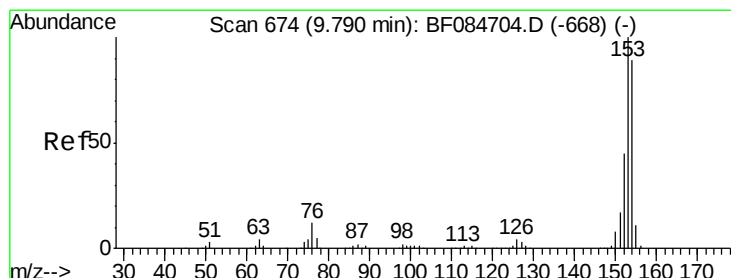
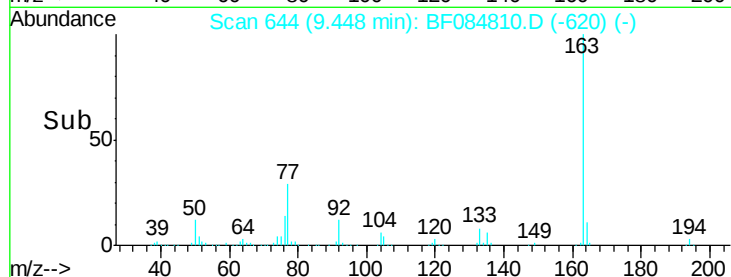
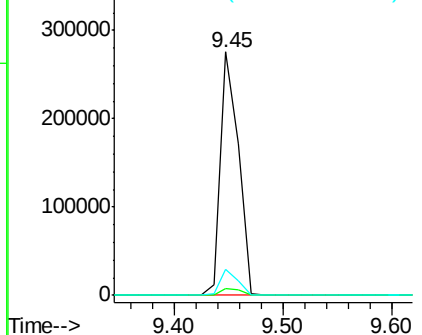
Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	3.0	8.0	12.0#
164	10.6	8.0	12.0

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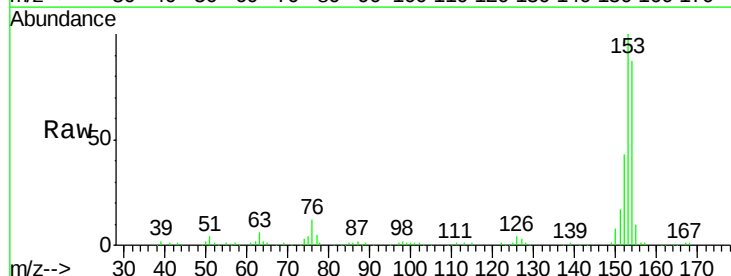


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

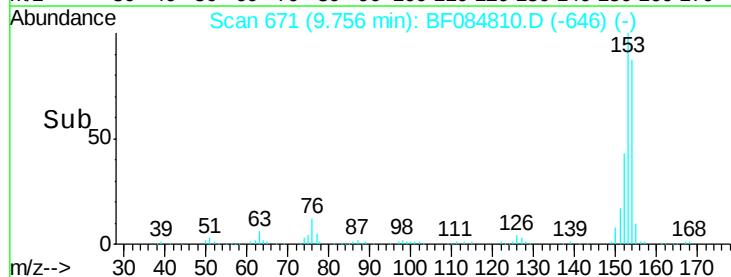
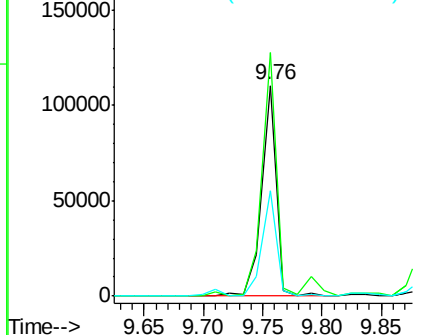


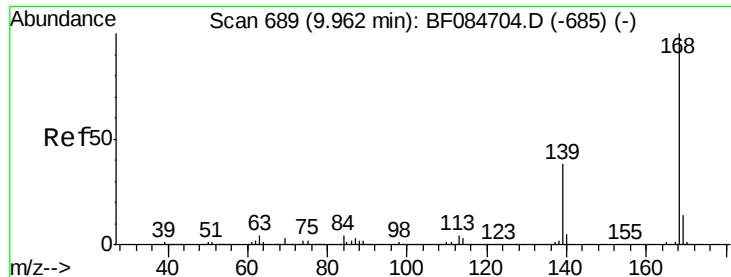
#51
Acenaphthene
Concen: 4.18 ng
RT: 9.76 min Scan# 671
Delta R.T. -0.01 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	115.5	91.5	137.3
152	49.7	43.0	64.6



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

Dibenzenofuran

Concen: 4.08 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.01 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Instrument :

BNA_F

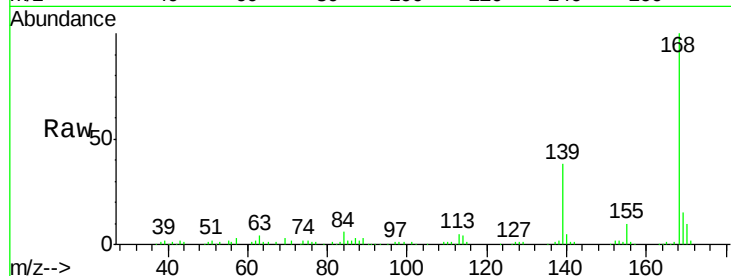
ClientSampleId :

SUP-B036(25-27)

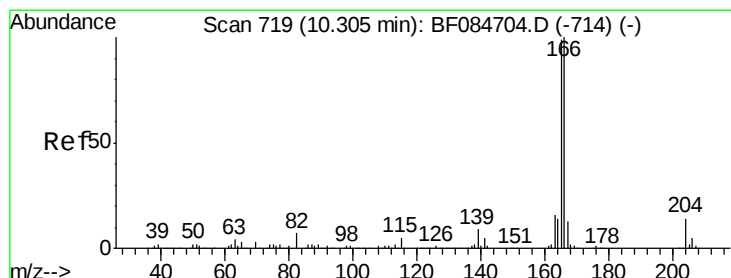
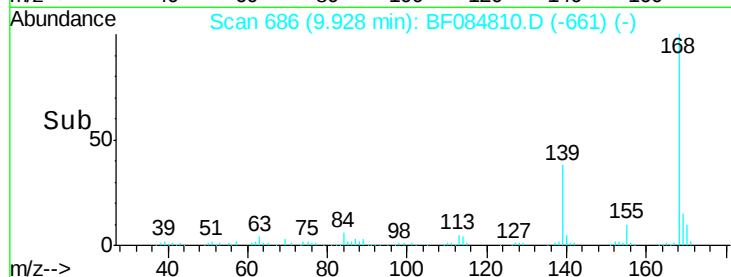
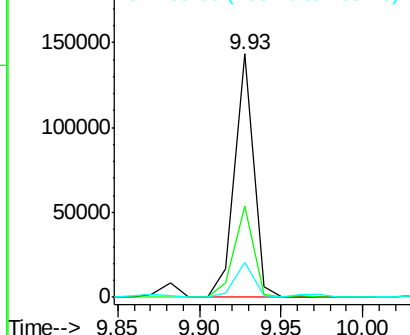
Tot Ion:	168	Resp:	115018
Ion Ratio	Lower	Upper	
168	100		
139	37.5	30.5	45.7
169	14.6	10.4	15.6

Manual Integrations
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Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 5.53 ng

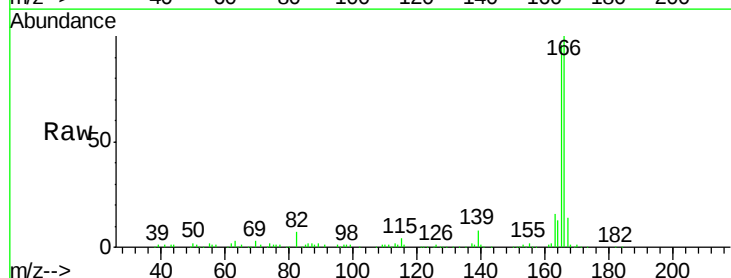
RT: 10.27 min Scan# 716

Delta R.T. 0.00 min

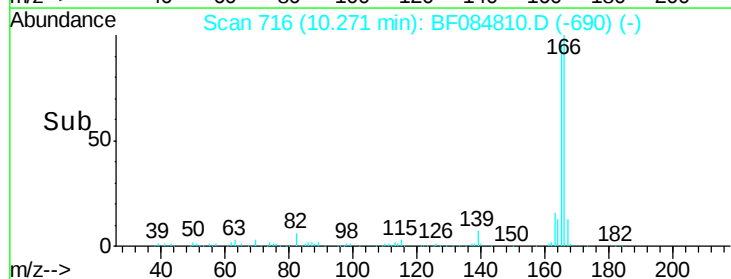
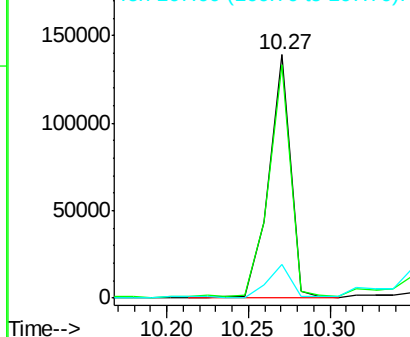
Lab File: BF084810.D

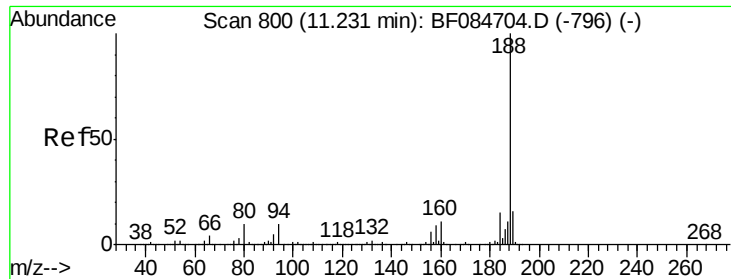
Acq: 4 Feb 2016 3:12

Tgt Ion:	166	Resp:	130185
Ion Ratio	Lower	Upper	
166	100		
165	95.9	79.1	118.7
167	13.6	10.4	15.6



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.21 min Scan# 798

Delta R.T. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Instrument :

BNA_F

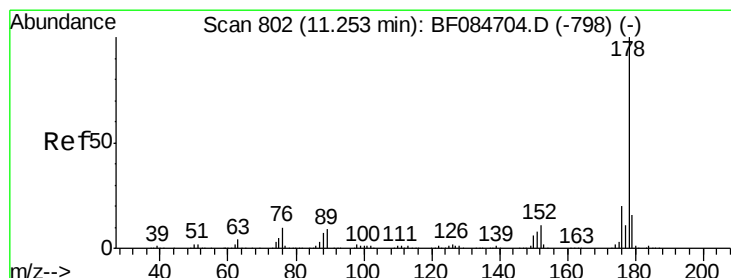
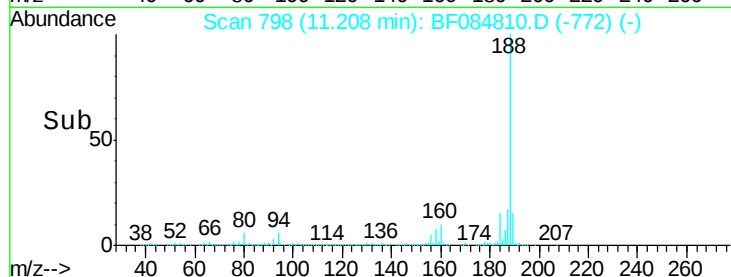
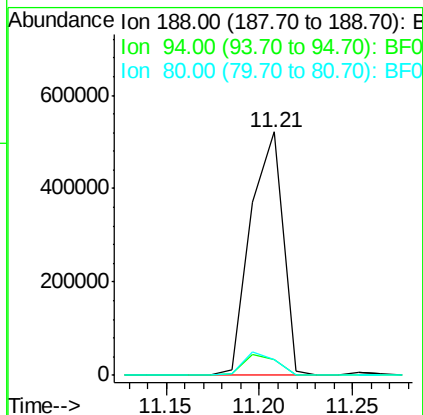
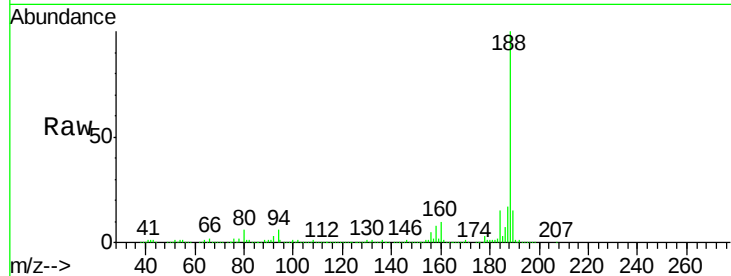
ClientSampleId :

SUP-B036(25-27)

Tot Ion:	188	Resp:	627720
Ion Ratio	Lower	Upper	
188	100		
94	6.3	9.0	13.4#
80	6.4	9.6	14.4#

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#70

Phenanthrene

Concen: 32.74 ng

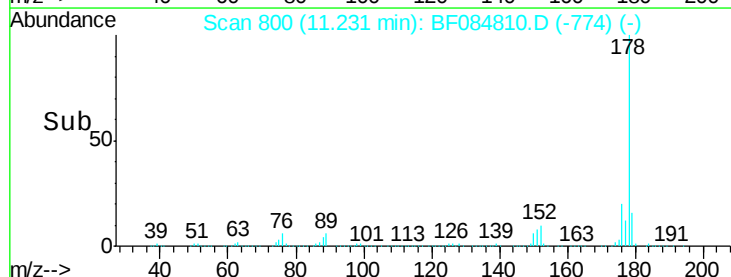
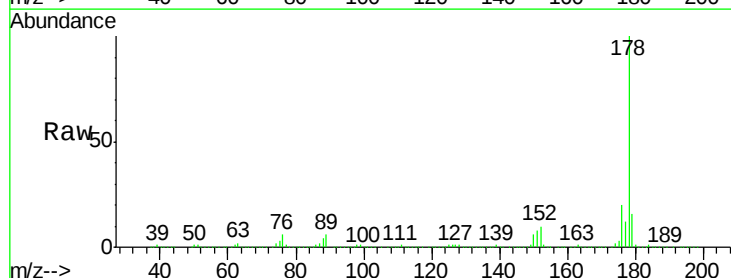
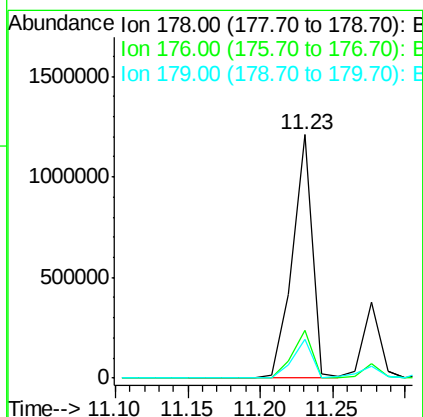
RT: 11.23 min Scan# 800

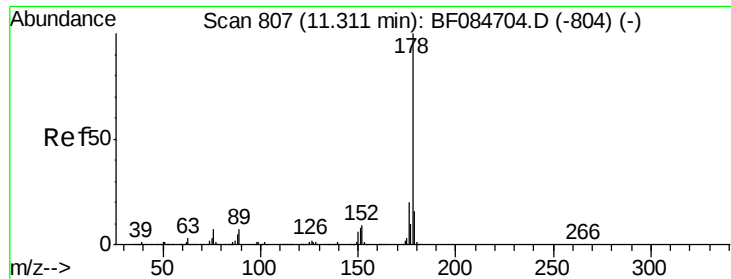
Delta R.T. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Tgt Ion:	178	Resp:	1139722
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.3	22.9
179	16.1	12.0	18.0





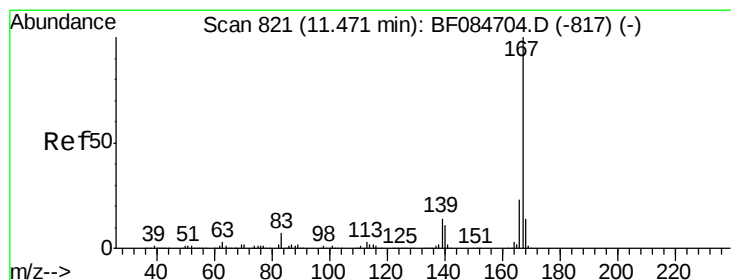
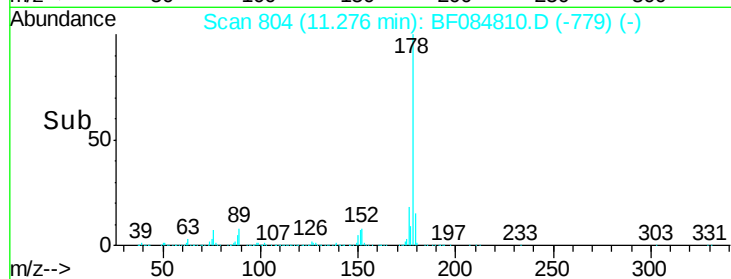
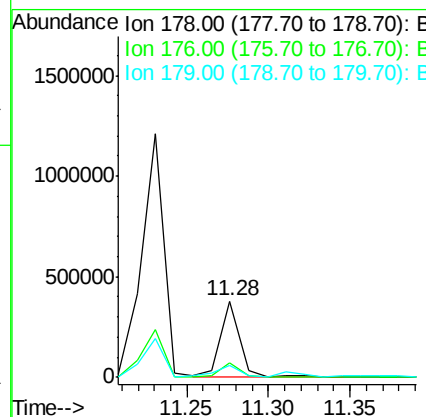
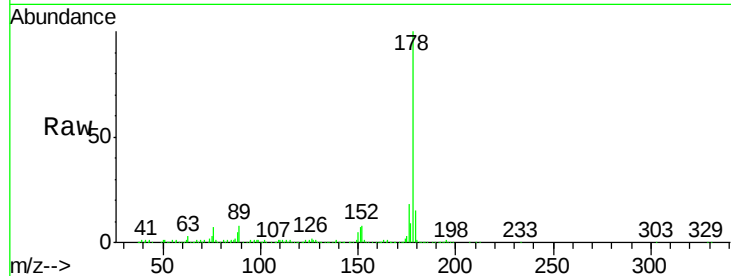
#71
 Anthracene
 Concen: 8.78 ng
 RT: 11.28 min Scan# 804
 Delta R.T. -0.01 min
 Lab File: BF084810.D
 Acq: 4 Feb 2016 3:12

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B036(25-27)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	15.4	12.5	18.7

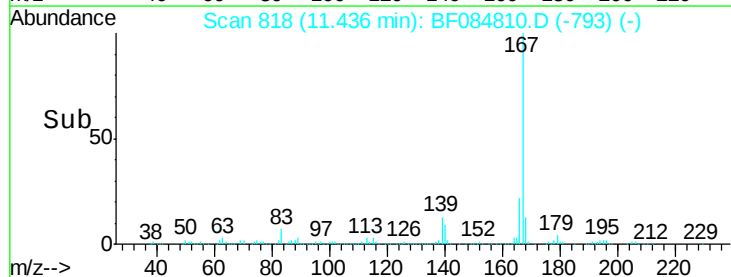
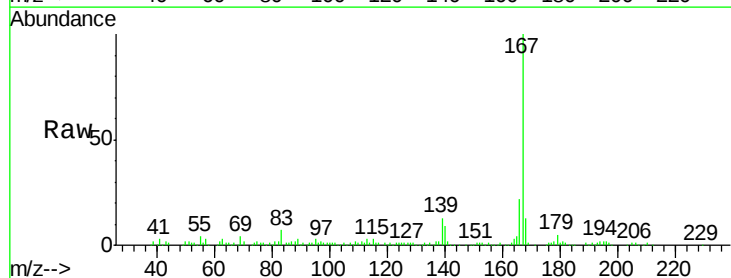
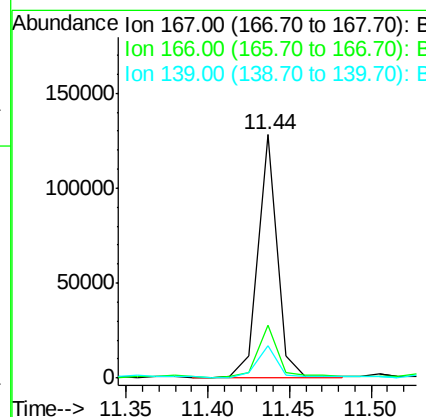
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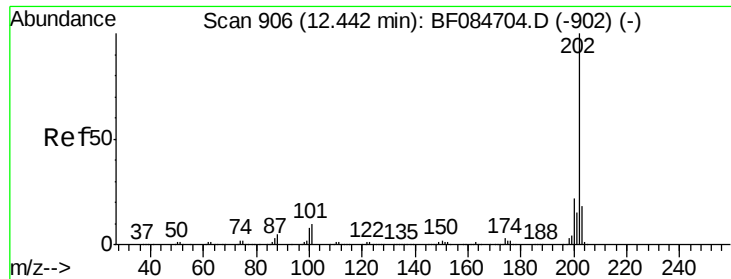
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#72
 Carbazole
 Concen: 3.40 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.01 min
 Lab File: BF084810.D
 Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.6	26.4
139	13.5	11.8	17.8





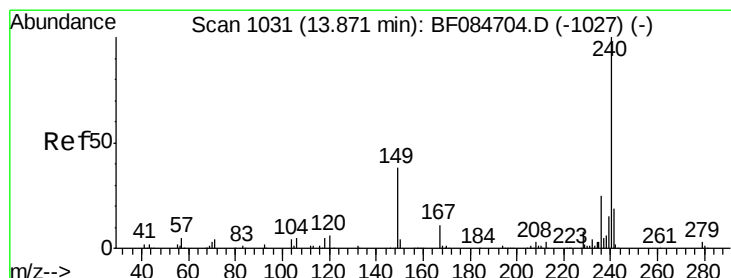
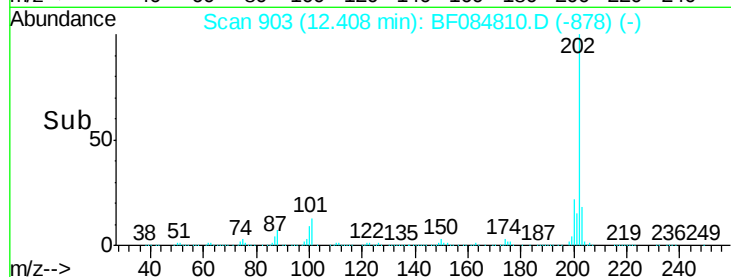
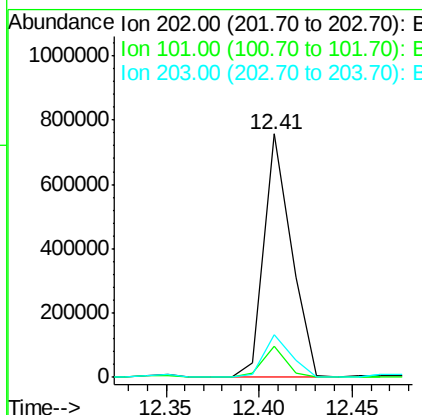
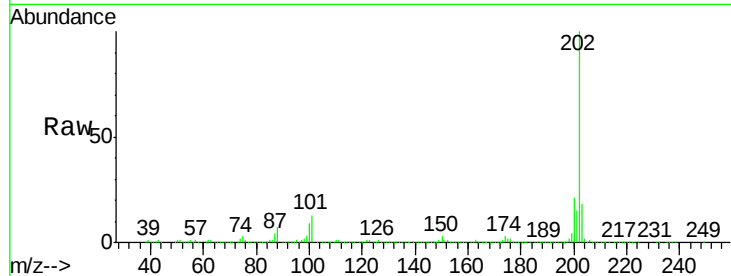
#74
Fluoranthene
Concen: 21.69 ng
RT: 12.41 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.6	0.0	32.8
203	17.6	0.0	37.9

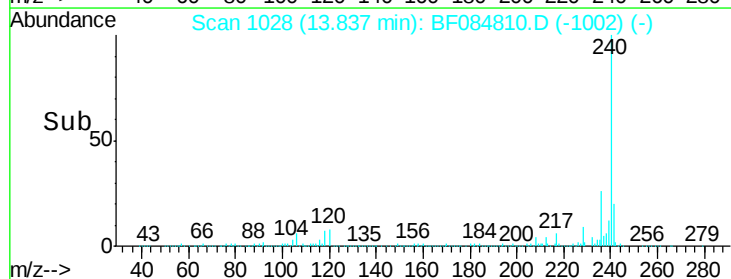
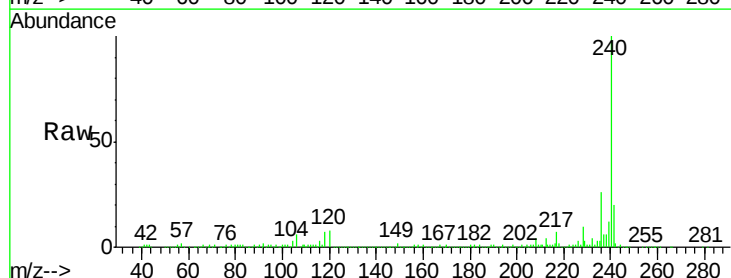
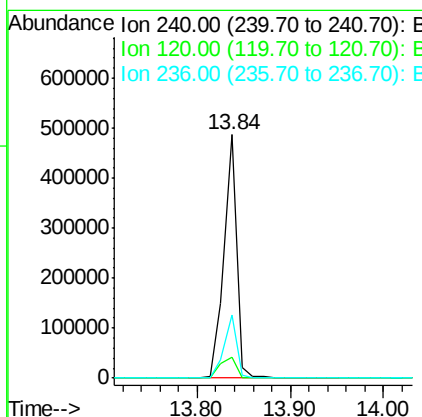
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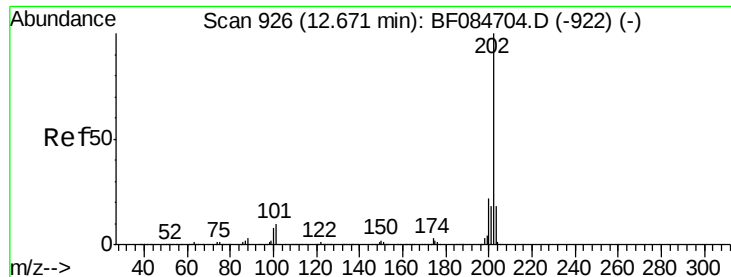
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#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.84 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	8.4	9.5	14.3#
236	25.8	20.6	31.0





#77

Pvrene

Concen: 22.76 ng

RT: 12.64 min Scan# 923

Delta R.T. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Instrument :

BNA_F

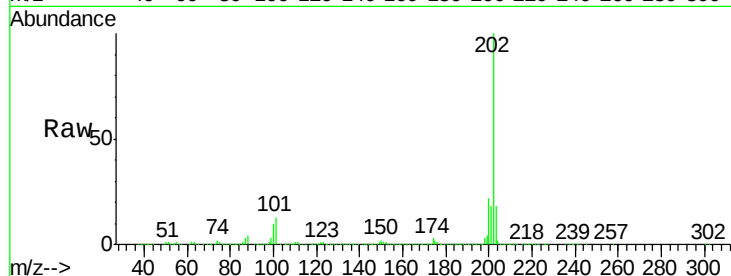
ClientSampleId :

SUP-B036(25-27)

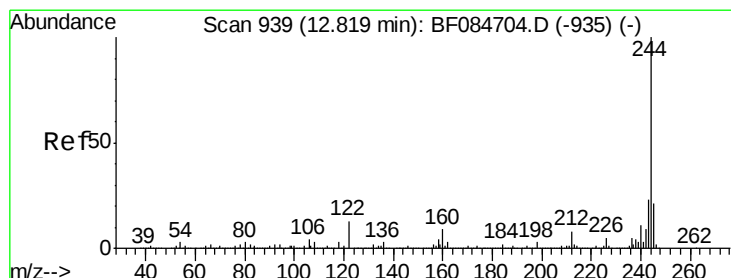
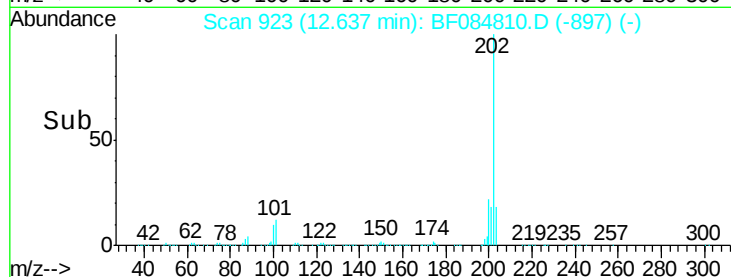
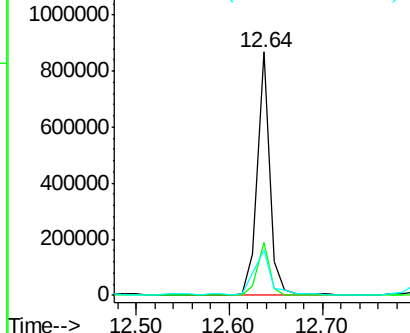
Tot Ion:	202	Resp:	805390
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.2	25.8
203	18.3	14.3	21.5

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 62.88 ng

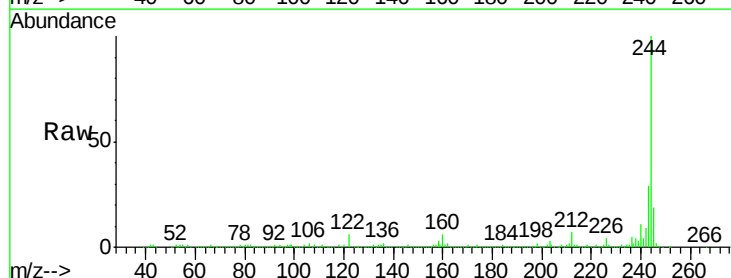
RT: 12.80 min Scan# 937

Delta R.T. 0.00 min

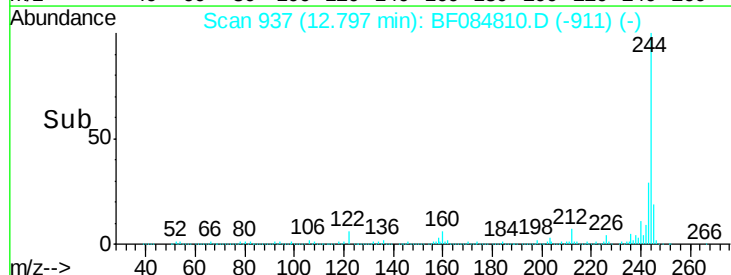
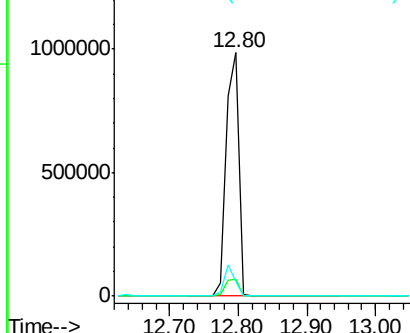
Lab File: BF084810.D

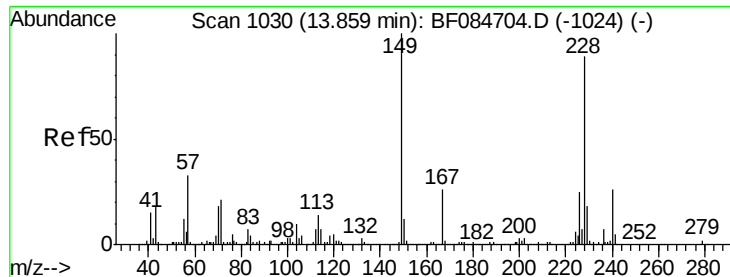
Acq: 4 Feb 2016 3:12

Tgt Ion:	244	Resp:	1282378
Ion Ratio	Lower	Upper	
244	100		
212	6.9	5.7	8.5
122	6.2	7.4	11.0#



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





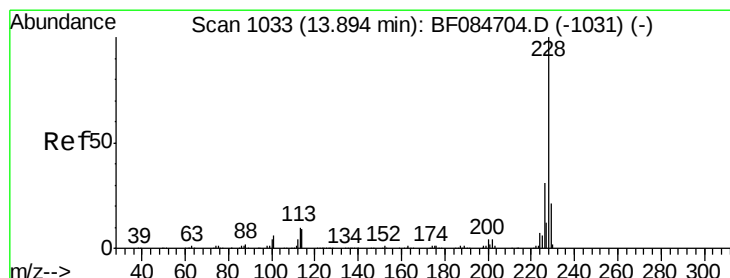
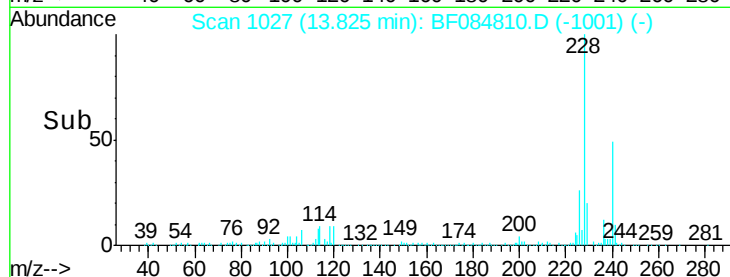
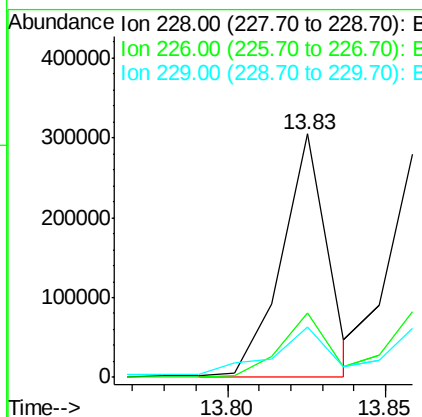
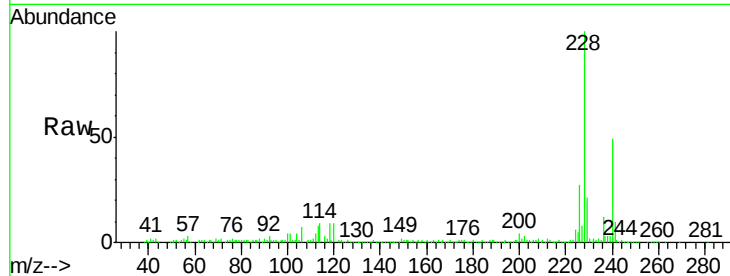
#80
Benzo(a)anthracene
Concen: 10.75 ng m
RT: 13.83 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.8	32.6
229	20.9	15.8	23.8

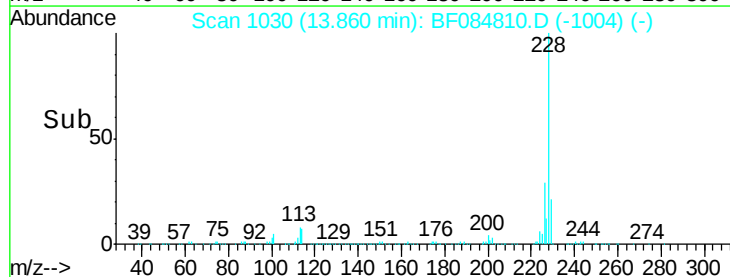
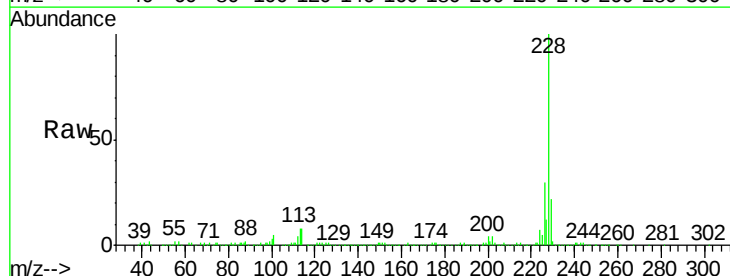
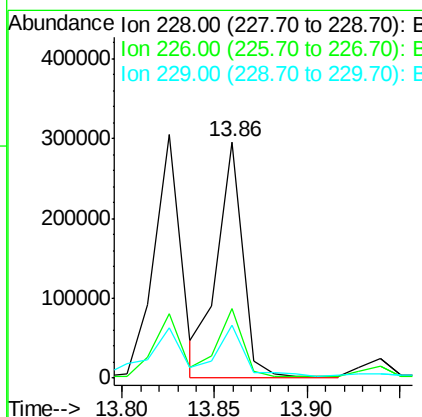
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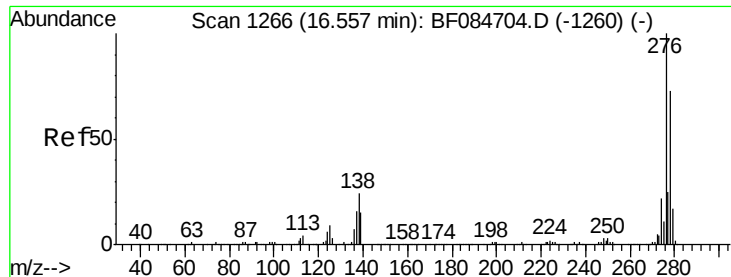
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#82
Chrysene
Concen: 10.35 ng m
RT: 13.86 min Scan# 1030
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.3	36.5
229	22.2	16.1	24.1





#85

Indeno(1,2,3-cd)pyrene

Concen: 3.60 ng

RT: 16.49 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Instrument :

BNA_F

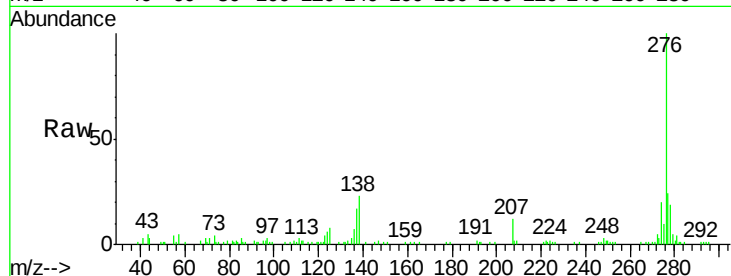
ClientSampleId :

SUP-B036(25-27)

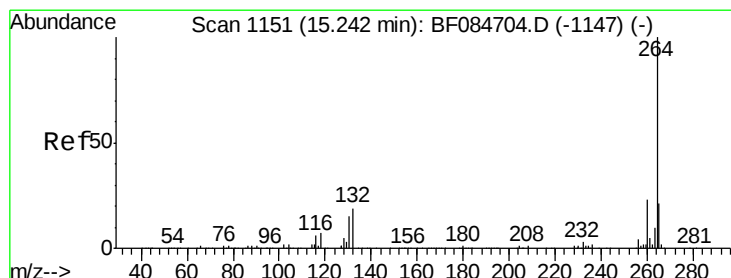
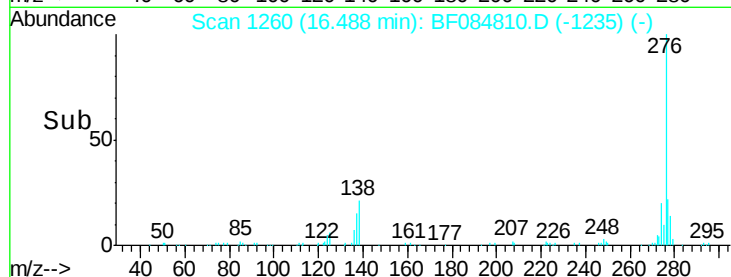
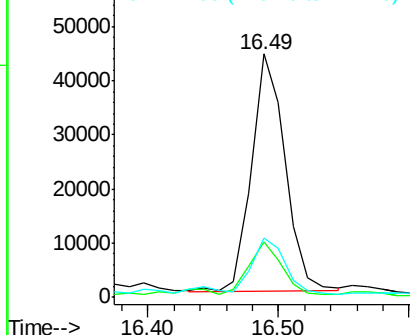
Tot Ion:	276	Resp:	78915
Ion Ratio	Lower	Upper	
276	100		
138	22.9	20.6	30.8
277	25.9	20.1	30.1

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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

Perylene-d12

Concen: 20.00 ng

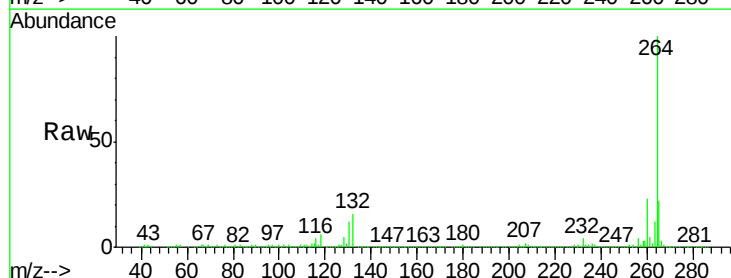
RT: 15.21 min Scan# 1148

Delta R.T. 0.00 min

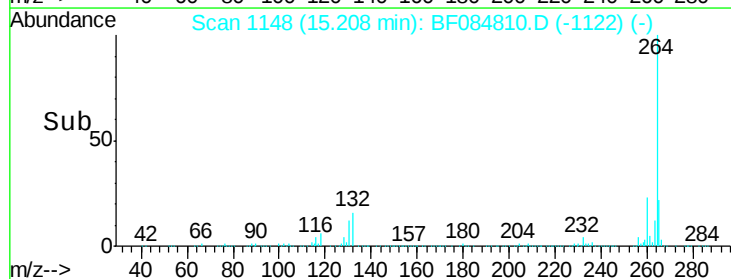
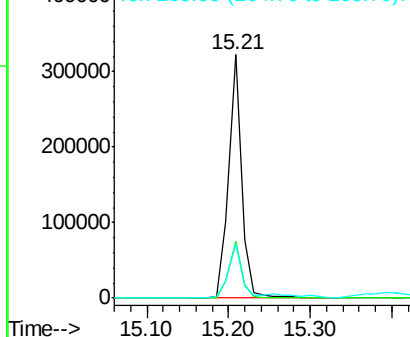
Lab File: BF084810.D

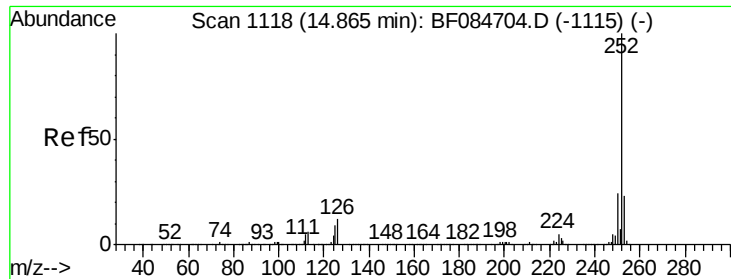
Acq: 4 Feb 2016 3:12

Tgt Ion:	264	Resp:	359644
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.4	29.2
265	22.0	17.8	26.6



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: 8.58 ng m

RT: 14.83 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Instrument :

BNA_F

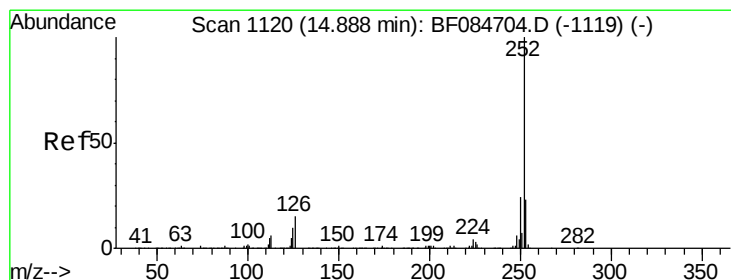
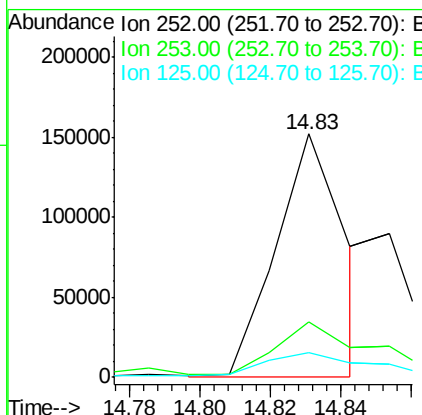
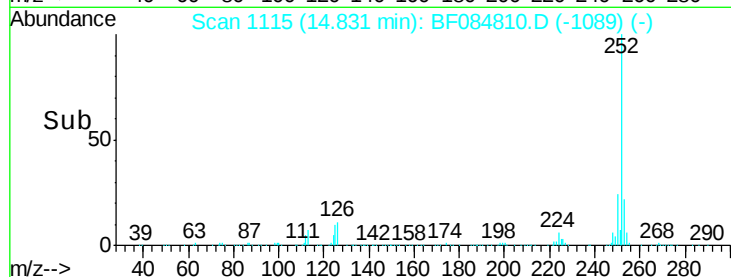
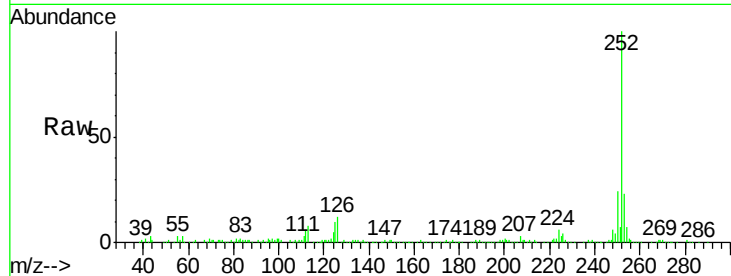
ClientSampleId :

SUP-B036(25-27)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.3	25.9
125	10.3	6.5	9.7

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#88

Benzo(k)fluoranthene

Concen: 3.87 ng m

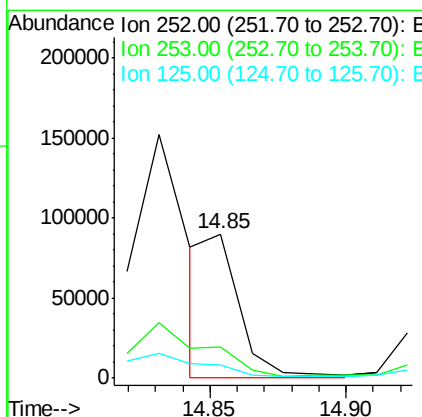
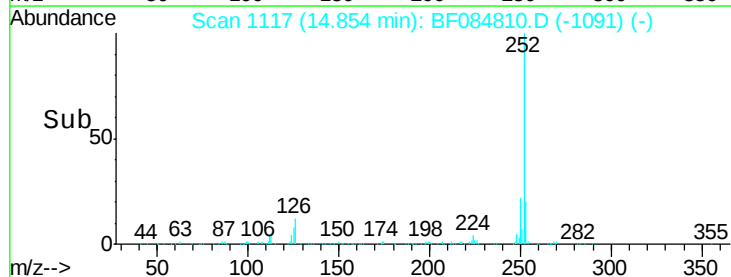
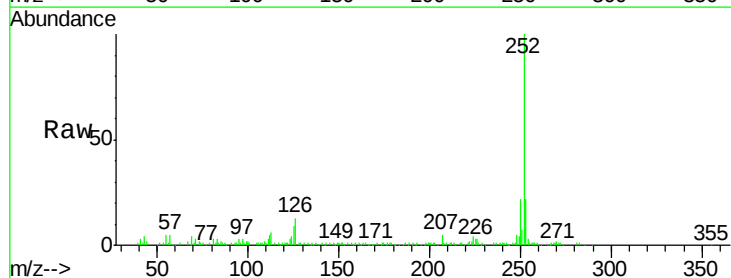
RT: 14.85 min Scan# 1117

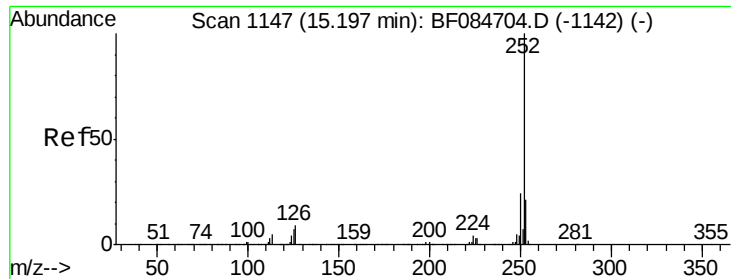
Delta R.T. 0.00 min

Lab File: BF084810.D

Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.1	27.1
125	9.0	9.0	13.6





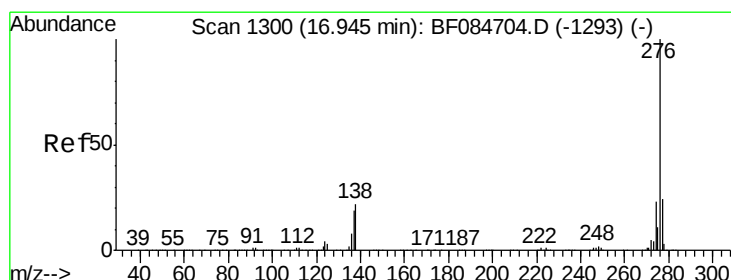
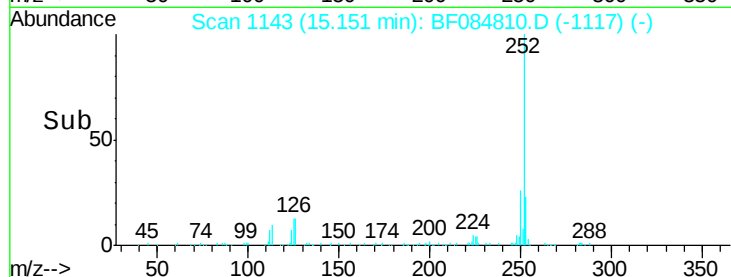
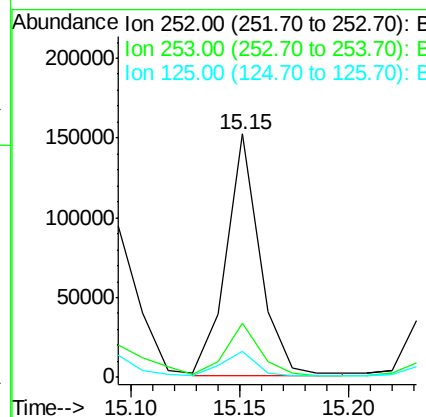
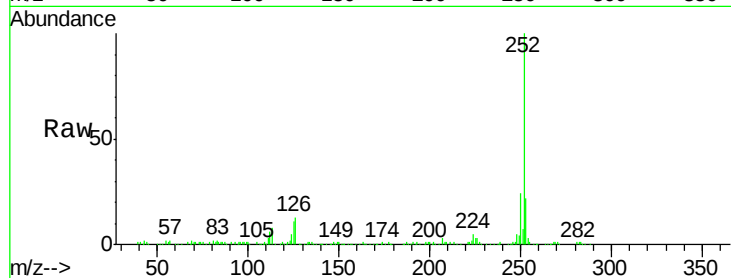
#89
Benzo(a)pyrene
Concen: 7.98 ng
RT: 15.15 min Scan# 1143
Delta R.T. 0.00 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Instrument :
BNA_F
ClientSampleId :
SUP-B036(25-27)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.3	25.9
125	10.6	7.0	10.4

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#91
Benzo(g,h,i)perylene
Concen: 4.71 ng
RT: 16.88 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF084810.D
Acq: 4 Feb 2016 3:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	18.8	28.2
138	22.2	17.8	26.6

