

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020116\
 Data File : BF084737.D
 Acq On : 2 Feb 2016 4:13
 Operator : SJ/IZ
 Sample : H1285-19
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B012(30.5-32.5)

Manual Integrations
 APPROVED

mohammad
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Quant Time: Feb 02 07:16:17 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 01 14:55:11 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	162136	20.00	ng	-0.02
21) Naphthalene-d8	8.00	136	722497	20.00	ng	-0.02
38) Acenaphthene-d10	9.74	164	293658	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	511383	20.00	ng	-0.01
75) Chrysene-d12	13.86	240	353205	20.00	ng	-0.01
86) Perylene-d12	15.24	264	327157	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.31	112	1226740	117.85	ng	0.00
7) Phenol-d6	6.36	99	1464970	113.52	ng	-0.01
23) Nitrobenzene-d5	7.28	82	961925	75.00	ng	-0.02
41) 2,4,6-Tribromophenol	10.53	330	305303	99.67	ng	-0.02
44) 2-Fluorobiphenyl	9.08	172	1494274	86.04	ng	-0.01
78) Terphenyl-d14	12.81	244	1004869	64.47	ng	-0.02
Target Compounds						
9) Benzaldehyde	6.26	77	16778	2.20	ng	# 77
24) Nitrobenzene	7.30	77	160069	11.65	ng	91
49) Dimethylphthalate	9.47	163	211480	9.46	ng	# 89
70) Phenanthrene	11.25	178	123653	4.36	ng	100
74) Fluoranthene	12.43	202	214254	7.46	ng	98
77) Pyrene	12.66	202	205629	7.60	ng	98
80) Benzo(a)anthracene	13.85	228	95244	4.34	ng	95
82) Chrysene	13.88	228	63461m	2.99	ng	
85) Indeno(1,2,3-cd)pyrene	16.55	276	50140	3.00	ng	96
87) Benzo(b)fluoranthene	14.87	252	94548m	4.30	ng	
89) Benzo(a)pyrene	15.19	252	67610	3.61	ng	# 92
91) Benzo(a,h,i)perylene	16.93	276	52498	3.31	ng	97

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

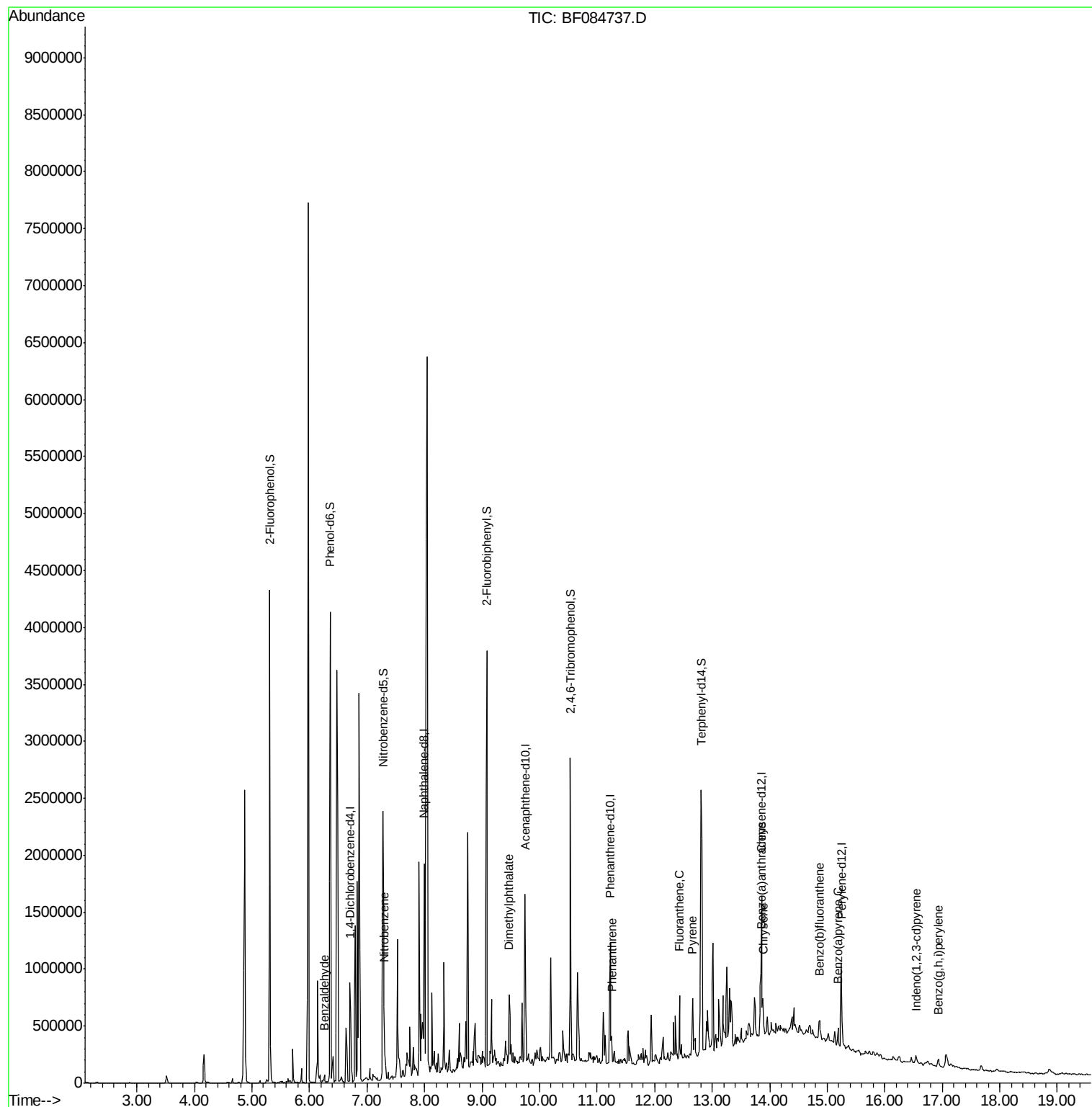
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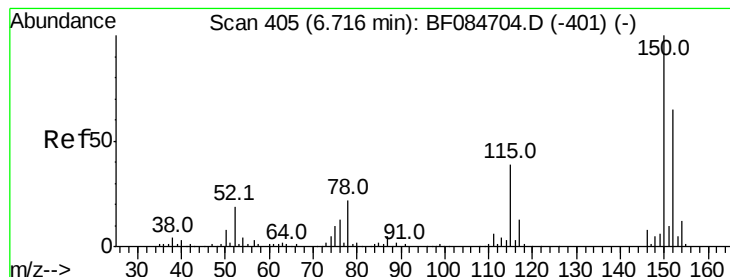
Instrument :
BNA_F
ClientSampleId :
SUP-B012(30.5-32.5)

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.70 min Scan# 404

Delta R.T. -0.02 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

ClientSampleId :

SUP-B012(30.5-32.5)

Tot Ion:152 Resp: 162136

Ion Ratio Lower Upper

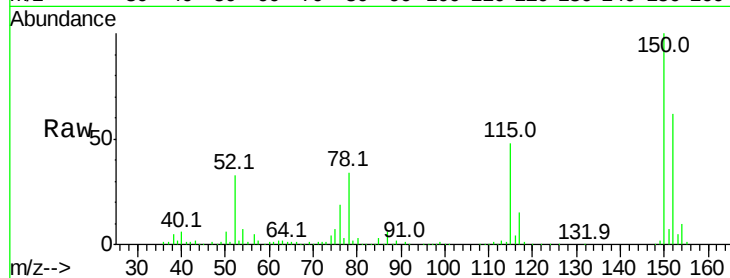
152 100

150 160.1 123.0 184.4

115 76.5 51.4 77.2

Manual Integrations
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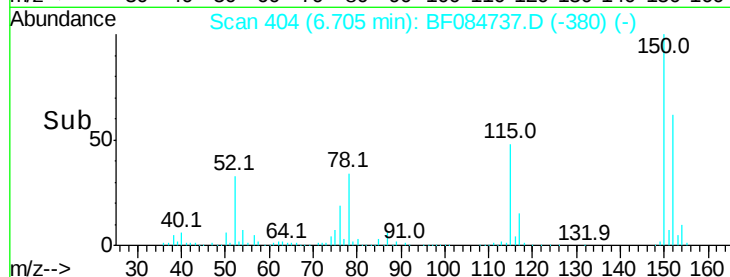
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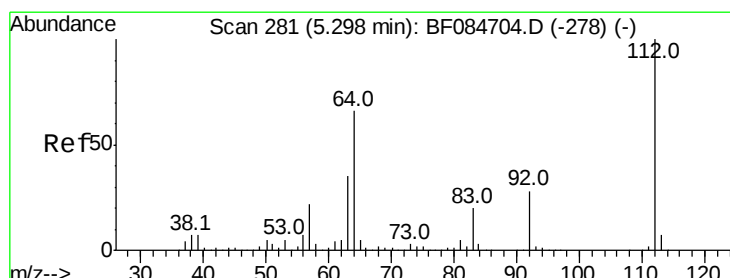
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#5

2-Fluorophenol

Concen: 117.85 ng

RT: 5.31 min Scan# 282

Delta R.T. 0.00 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

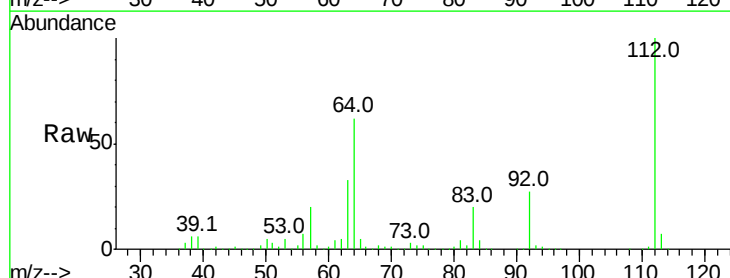
Tgt Ion:112 Resp: 1226740

Ion Ratio Lower Upper

112 100

64 61.9 36.6 55.0#

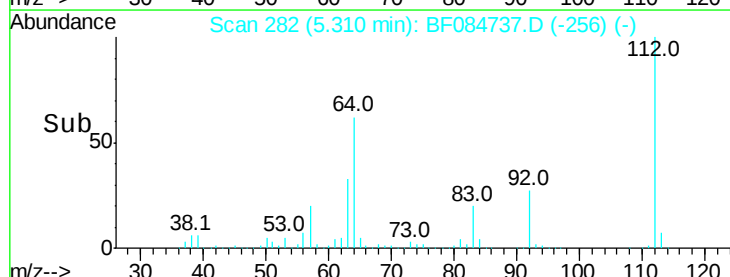
63 32.7 19.4 29.0#



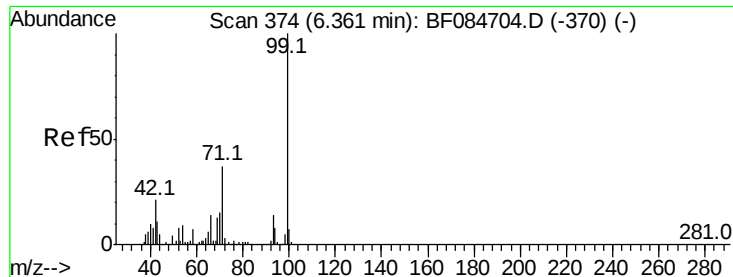
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



Time-->



#7

Phenol-d6

Concen: 113.52 ng

RT: 6.36 min Scan# 374

Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

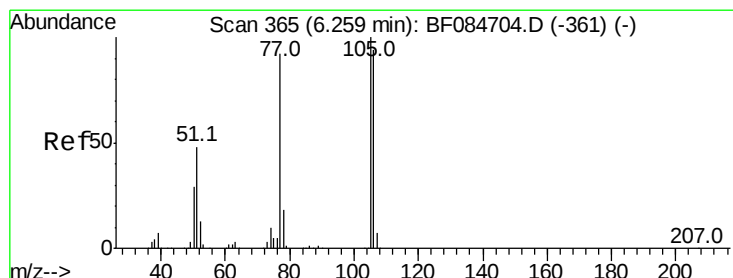
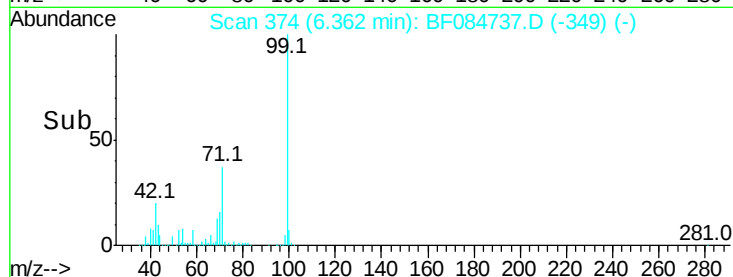
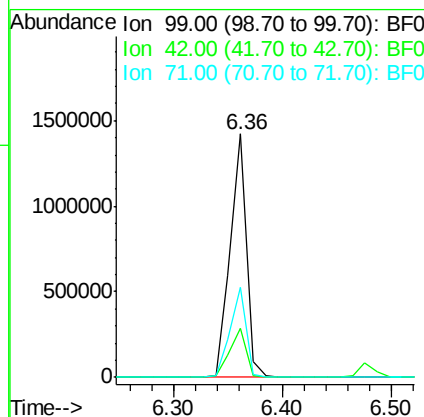
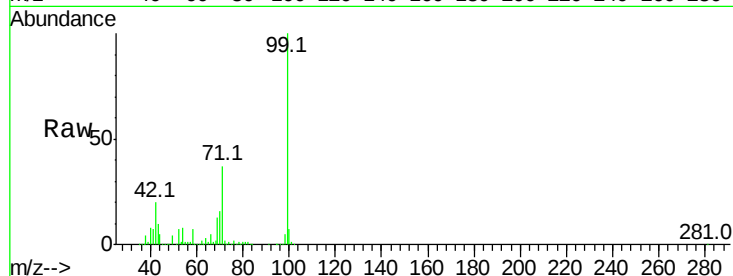
ClientSampleId :

SUP-B012(30.5-32.5)

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Tot Ion	99	Resp	1464970
Ion	Ratio	Lower	Upper
99	100		
42	20.1	12.8	19.2#
71	37.2	30.9	46.3



#9

Benzaldehyde

Concen: 2.20 ng

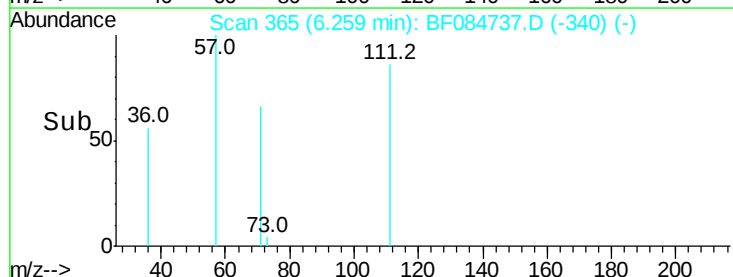
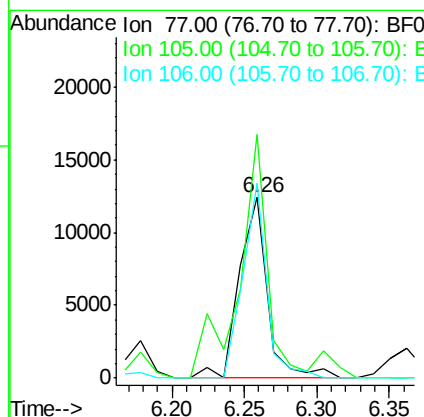
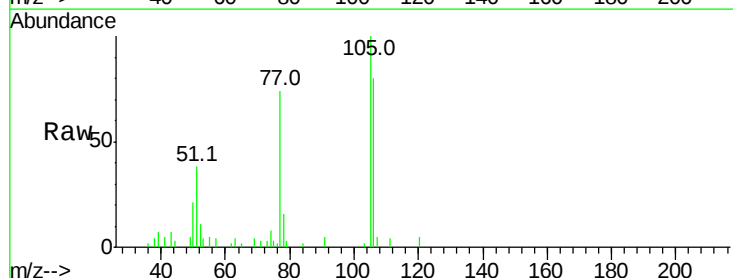
RT: 6.26 min Scan# 365

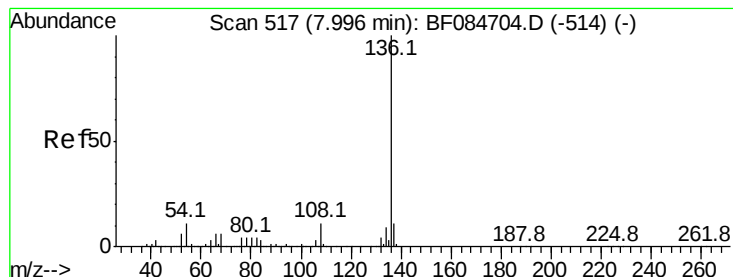
Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Tgt Ion	77	Resp	16778
Ion	Ratio	Lower	Upper
77	100		
105	134.7	83.0	123.0#
106	108.2	74.6	114.6





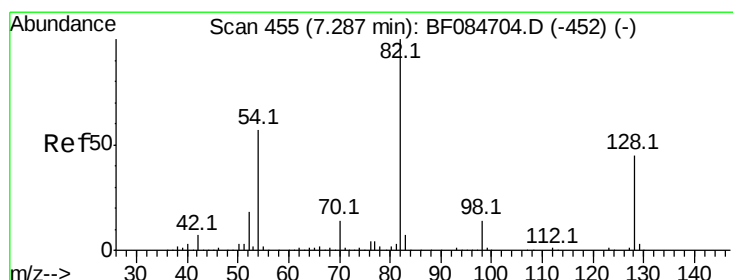
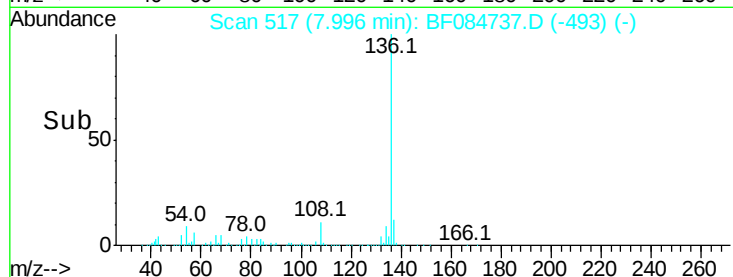
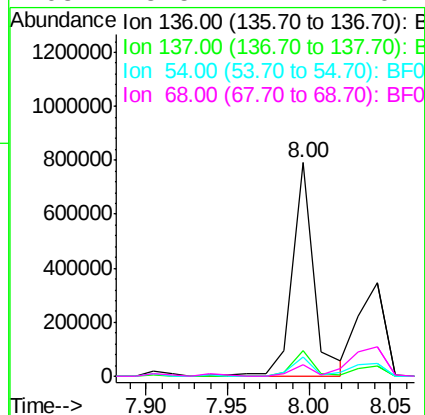
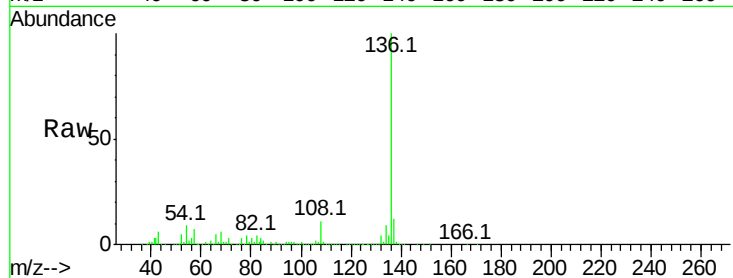
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.00 min Scan# 517
Delta R.T. -0.02 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Instrument :
BNA_F
ClientSampleId :
SUP-B012(30.5-32.5)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	11.8	8.7	13.1		
54	9.1	5.8	8.8		
68	5.5	4.2	6.2		

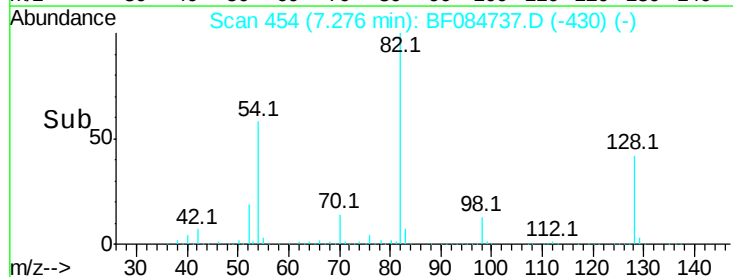
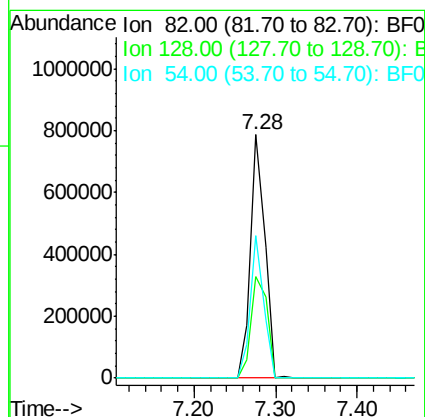
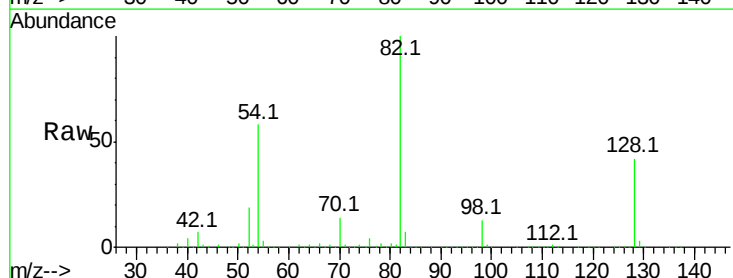
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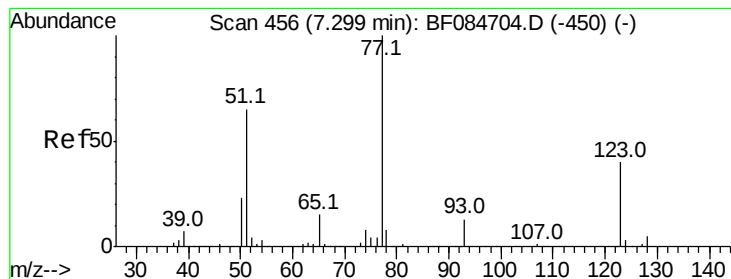
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#23
Nitrobenzene-d5
Concen: 75.00 ng
RT: 7.28 min Scan# 454
Delta R.T. -0.02 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	41.9	34.6	51.8		
54	58.5	38.4	57.6		





#24

Nitrobenzene

Concen: 11.65 ng

RT: 7.30 min Scan# 456

Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

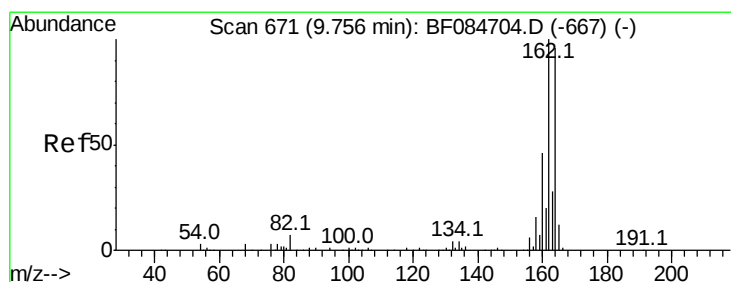
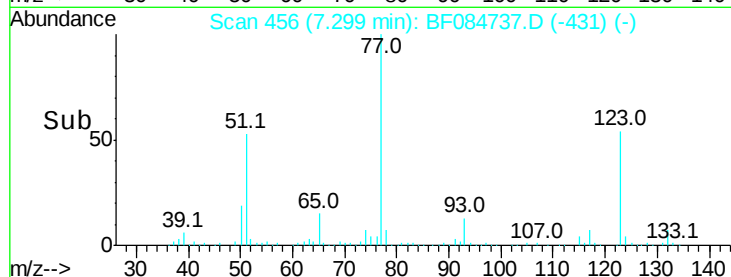
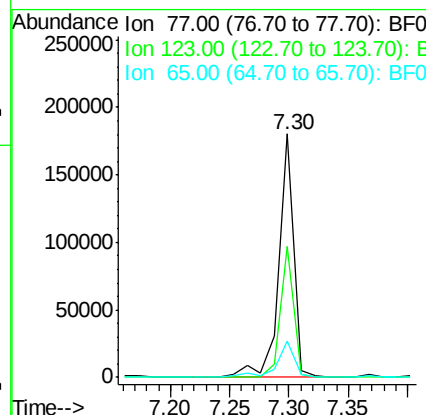
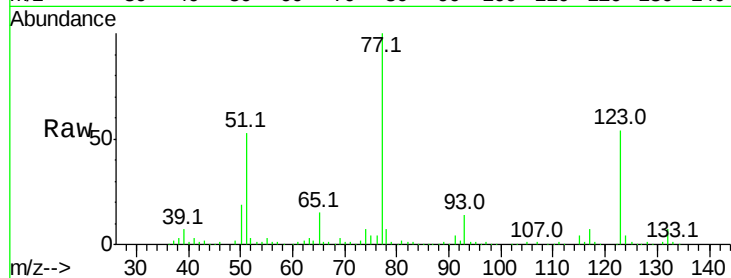
ClientSampleId :

SUP-B012(30.5-32.5)

Tot Ion:	77	Resp:	160069
Ion Ratio	Lower	Upper	
77	100		
123	53.7	37.4	56.2
65	14.7	10.9	16.3

Manual Integrations
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#38

Acenaphthene-d10

Concen: 20.00 ng

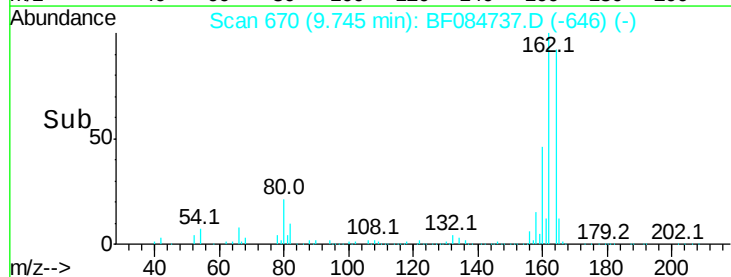
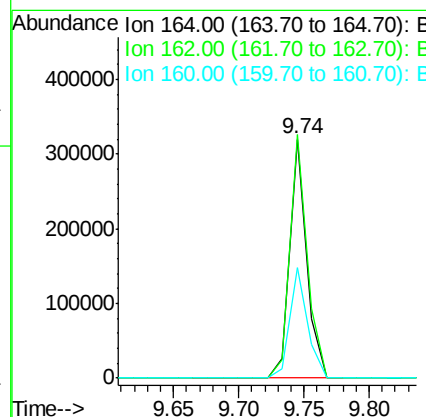
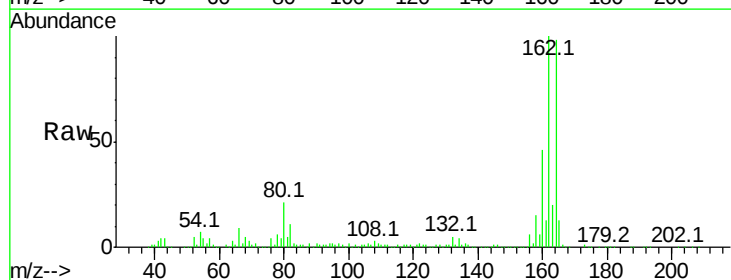
RT: 9.74 min Scan# 670

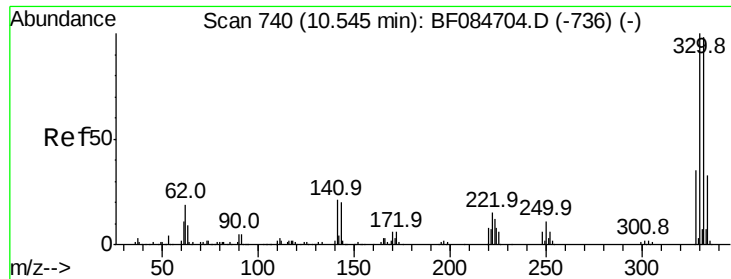
Delta R.T. -0.02 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Tgt Ion:	164	Resp:	293658
Ion Ratio	Lower	Upper	
164	100		
162	102.0	85.1	127.7
160	46.5	37.5	56.3





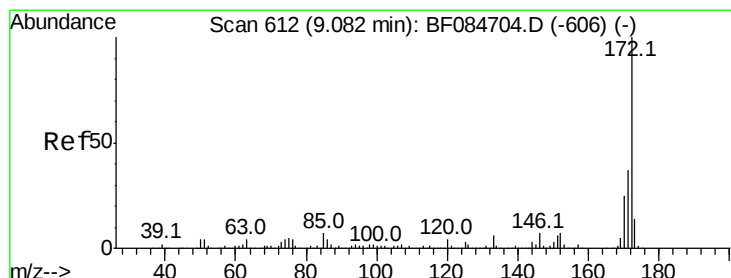
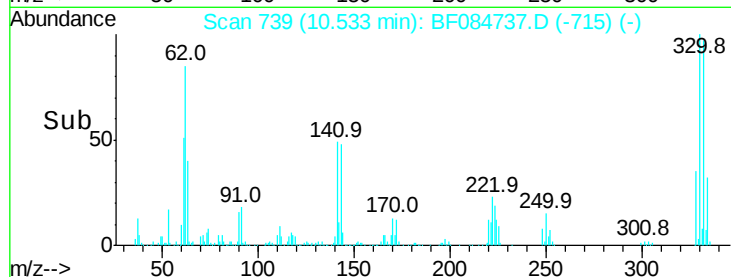
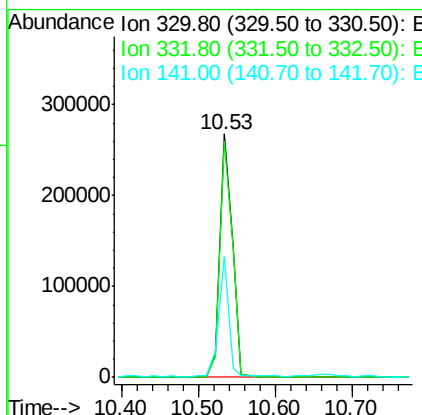
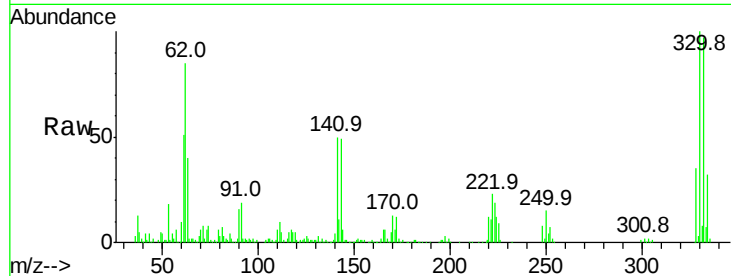
#41
 2,4,6-Tribromophenol
 Concen: 99.67 ng
 RT: 10.53 min Scan# 739
 Delta R.T. -0.02 min
 Lab File: BF084737.D
 Acq: 2 Feb 2016 4:13

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B012(30.5-32.5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.0	76.6	114.8	
141	38.6	27.8	41.6	

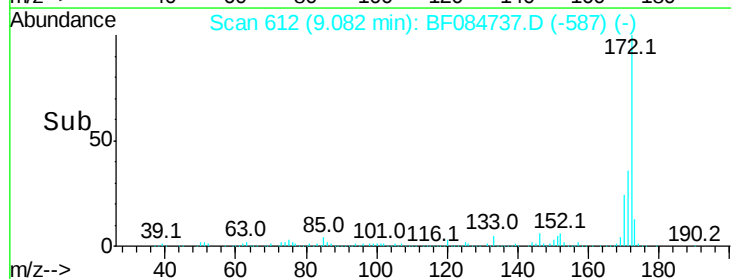
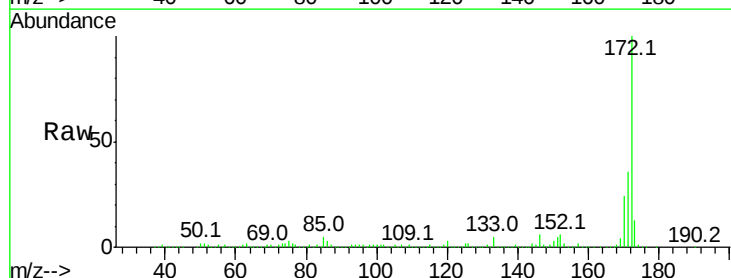
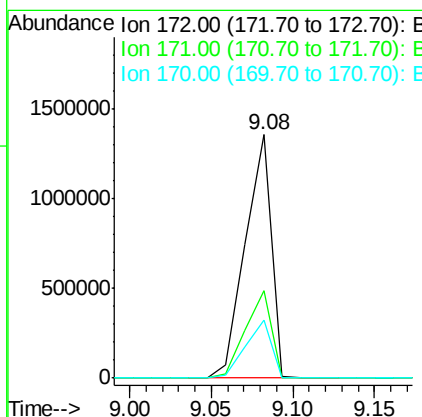
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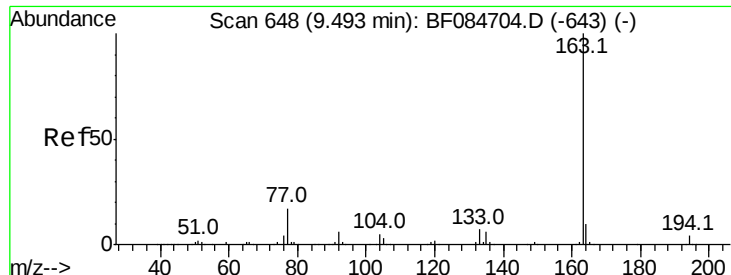
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#44
 2-Fluorobiphenyl
 Concen: 86.04 ng
 RT: 9.08 min Scan# 612
 Delta R.T. -0.01 min
 Lab File: BF084737.D
 Acq: 2 Feb 2016 4:13

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.7	28.9	43.3	
170	24.0	18.6	27.8	





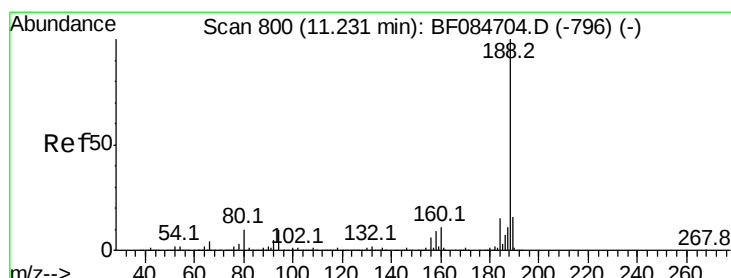
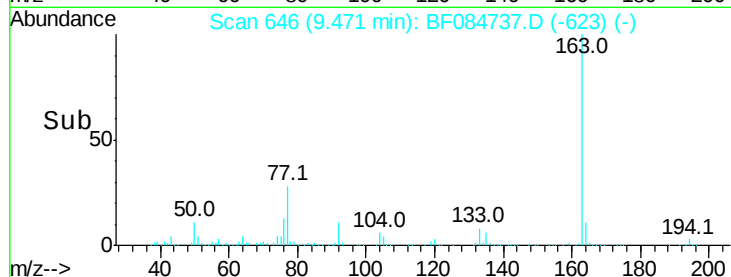
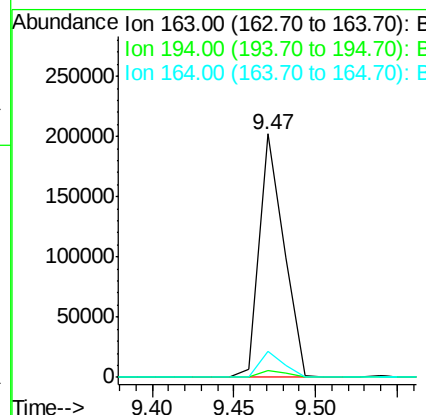
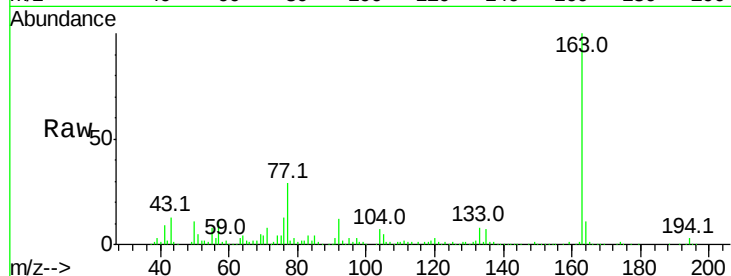
#49
Dimethylphthalate
Concen: 9.46 ng
RT: 9.47 min Scan# 646
Delta R.T. -0.03 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Instrument :
BNA_F
ClientSampleId :
SUP-B012(30.5-32.5)

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	2.8	8.0	12.0#
164	10.6	8.0	12.0

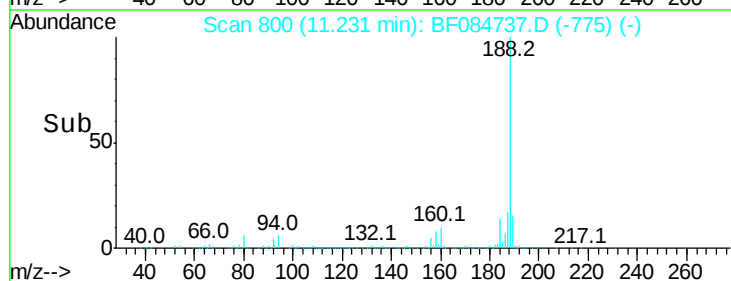
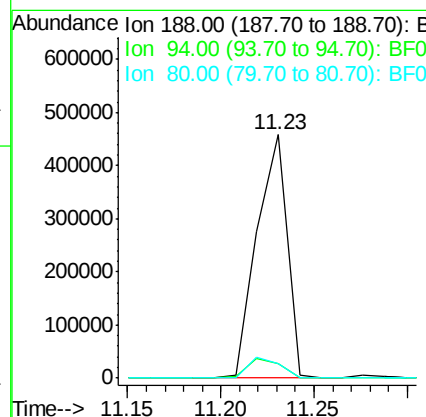
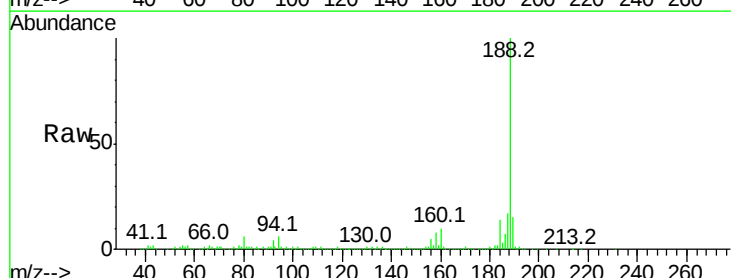
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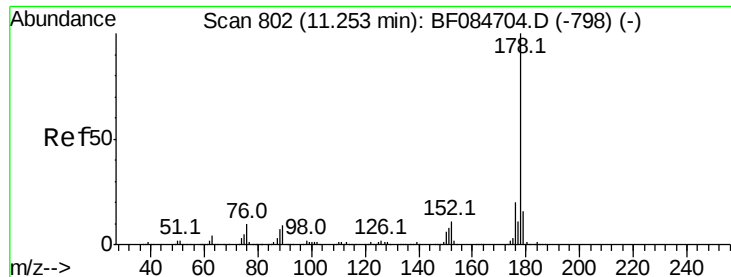
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#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.23 min Scan# 800
Delta R.T. -0.01 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	6.2	9.0	13.4#
80	6.2	9.6	14.4#





#70

Phenanthrene

Concen: 4.36 ng

RT: 11.25 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

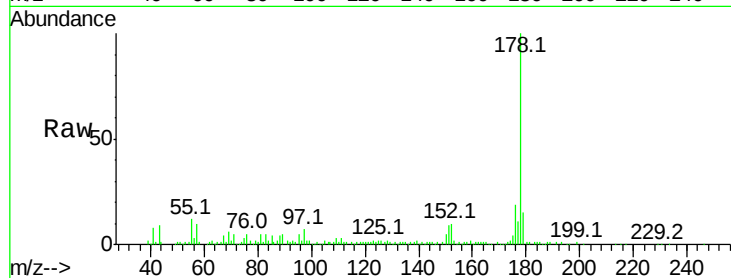
ClientSampleId :

SUP-B012(30.5-32.5)

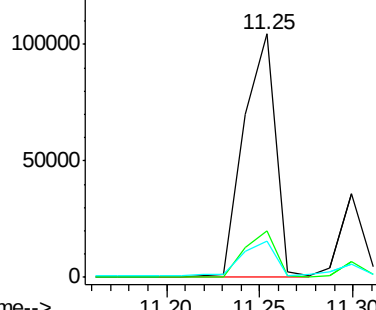
Tot Ion:	178	Resp:	123653
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.3	22.9
179	15.0	12.0	18.0

Manual Integrations
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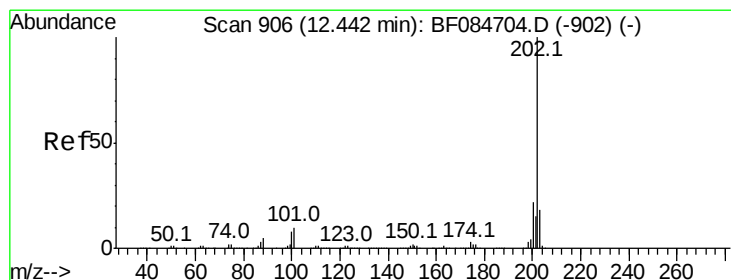
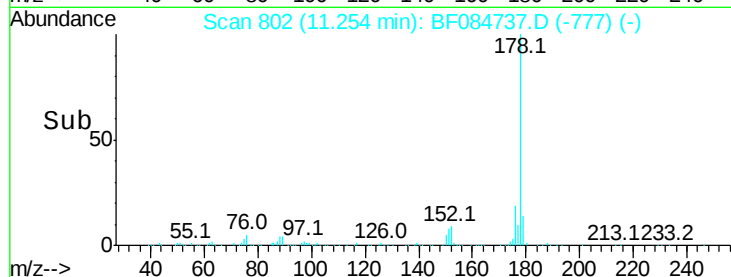
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



Time-->



#74

Fluoranthene

Concen: 7.46 ng

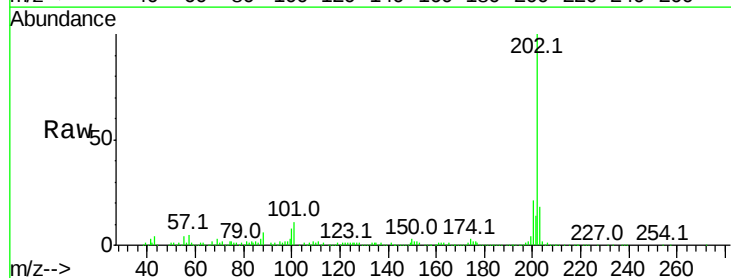
RT: 12.43 min Scan# 905

Delta R.T. -0.02 min

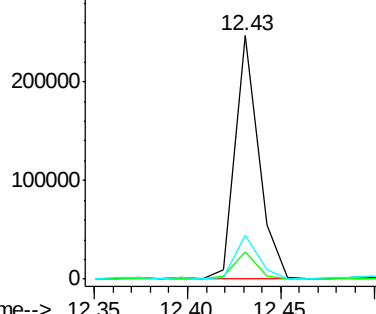
Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

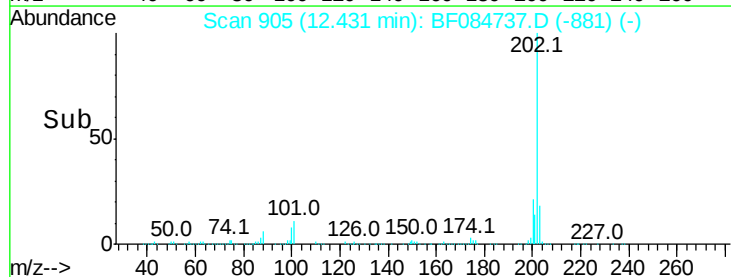
Tgt Ion:	202	Resp:	214254
Ion Ratio	Lower	Upper	
202	100		
101	11.1	0.0	32.8
203	18.0	0.0	37.9

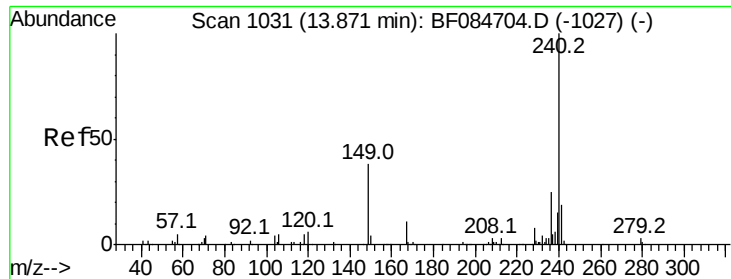


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

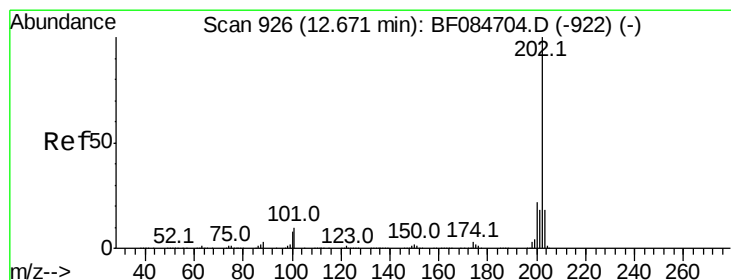
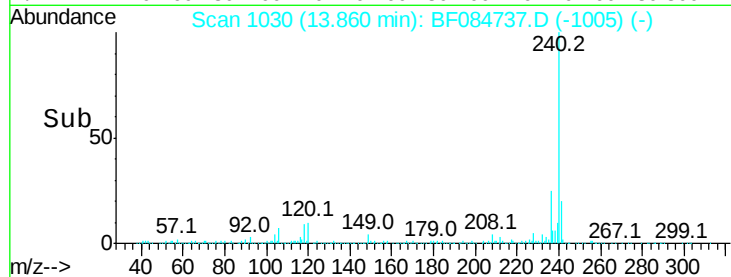
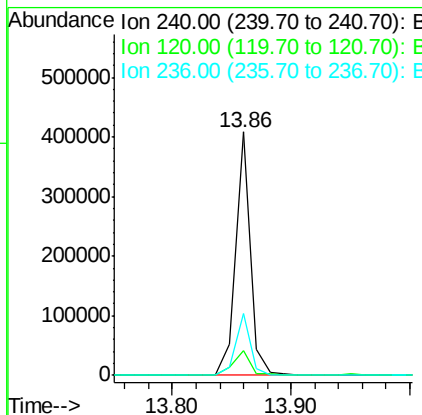
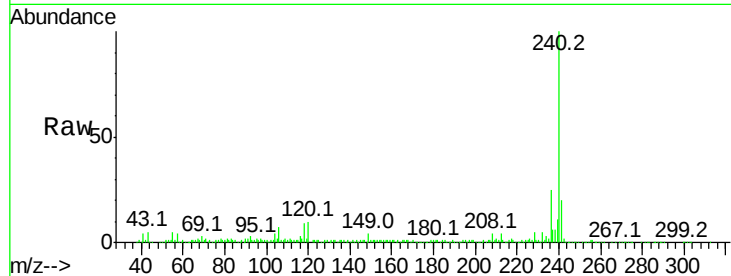
ClientSampleId :

SUP-B012(30.5-32.5)

Tot Ion:	240	Resp:	353205
Ion Ratio	Lower	Upper	
240	100		
120	10.1	9.5	14.3
236	25.3	20.6	31.0

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#77

Pyrene

Concen: 7.60 ng

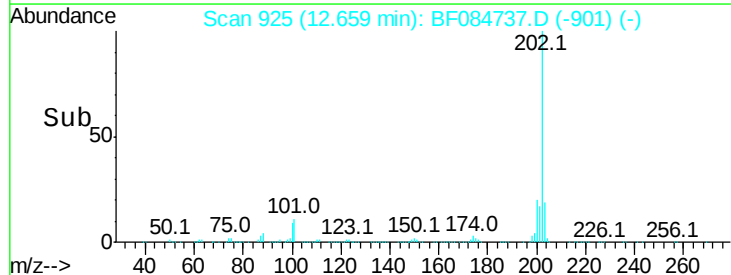
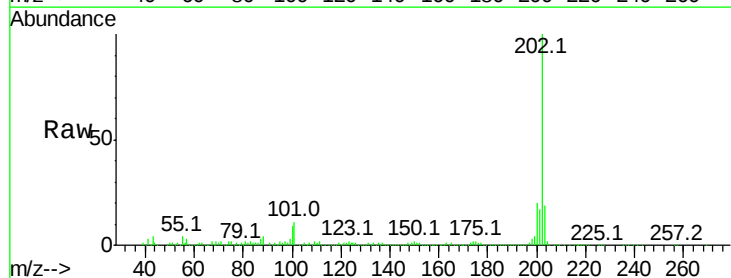
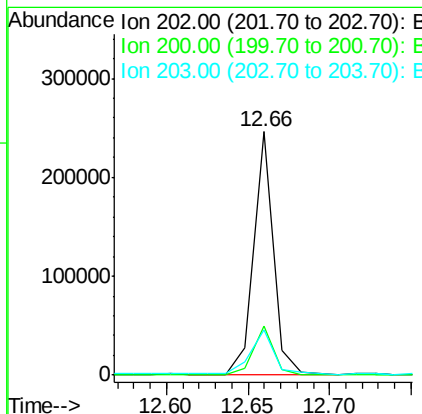
RT: 12.66 min Scan# 925

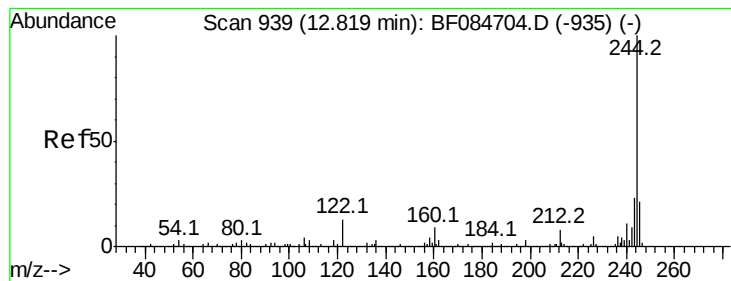
Delta R.T. -0.02 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Tgt Ion:	202	Resp:	205629
Ion Ratio	Lower	Upper	
202	100		
200	20.4	17.2	25.8
203	18.8	14.3	21.5





#78

Terphenyl-d14

Concen: 64.47 ng

RT: 12.81 min Scan# 938

Delta R.T. -0.02 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

ClientSampleId :

SUP-B012(30.5-32.5)

Tot Ion:244 Resp: 1004869

Ion Ratio Lower Upper

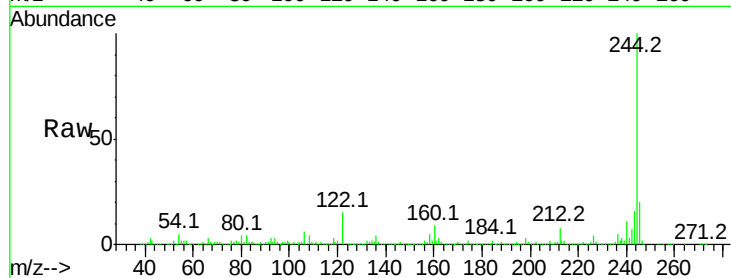
244 100

212 7.9 5.7 8.5

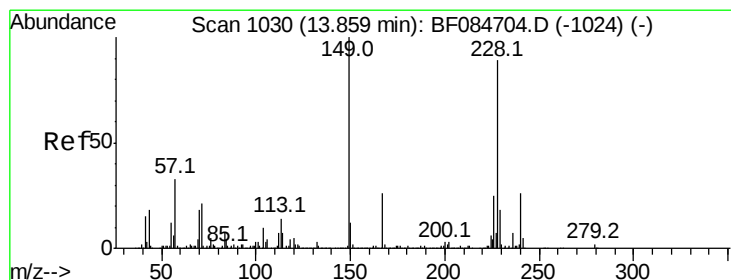
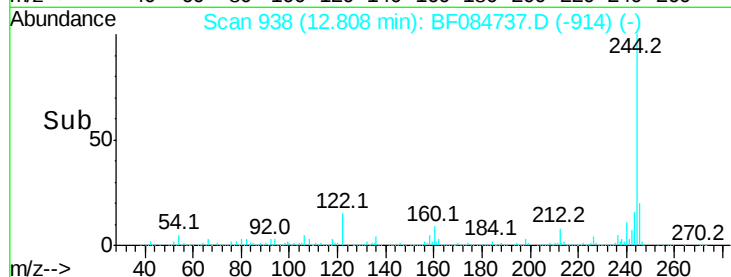
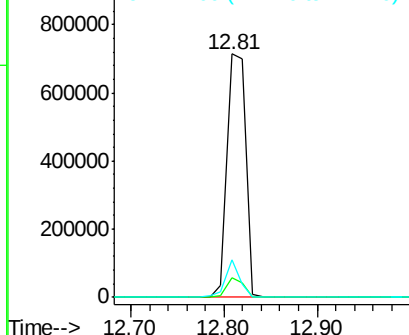
122 15.4 7.4 11.0#

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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: 4.34 ng

RT: 13.85 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

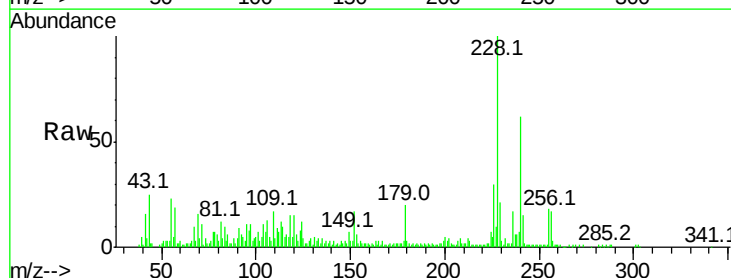
Tgt Ion:228 Resp: 95244

Ion Ratio Lower Upper

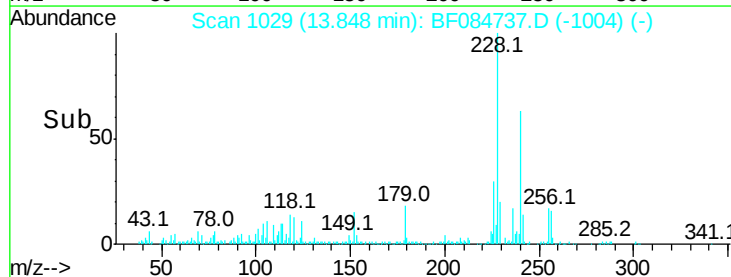
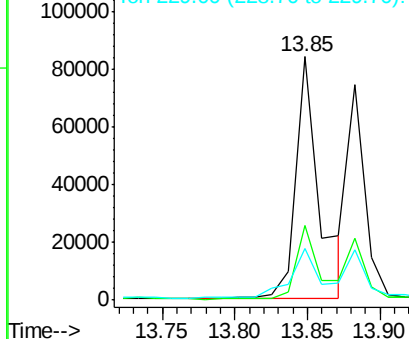
228 100

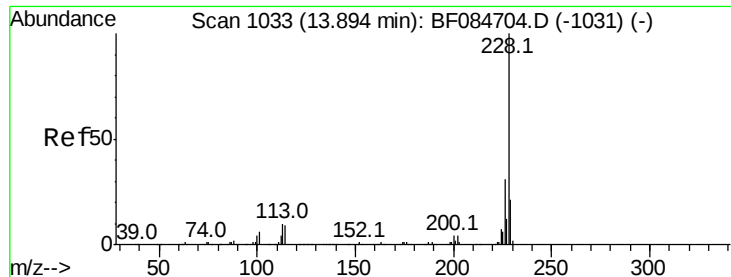
226 30.5 21.8 32.6

229 21.0 15.8 23.8



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





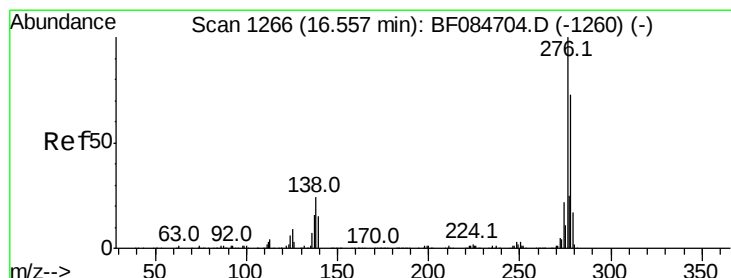
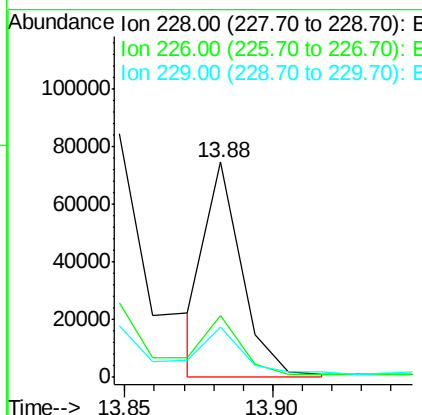
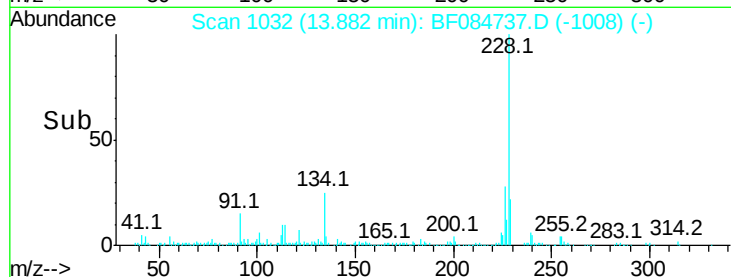
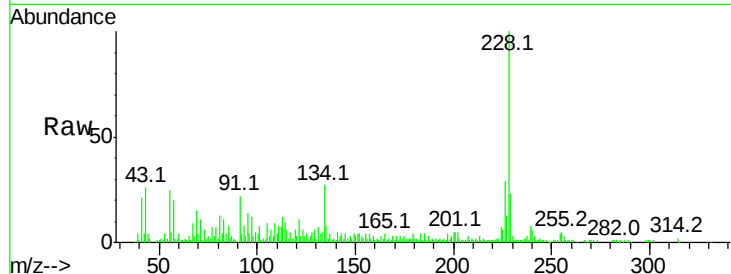
#82
Chrysene
Concen: 2.99 ng/mL
RT: 13.88 min Scan# 1032
Delta R.T. -0.02 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Instrument :
BNA_F
ClientSampleId :
SUP-B012(30.5-32.5)

Tot Ion:	228	Resp:	63461
Ion Ratio	Lower	Upper	
228	100		
226	28.8	24.3	36.5
229	23.4	16.1	24.1

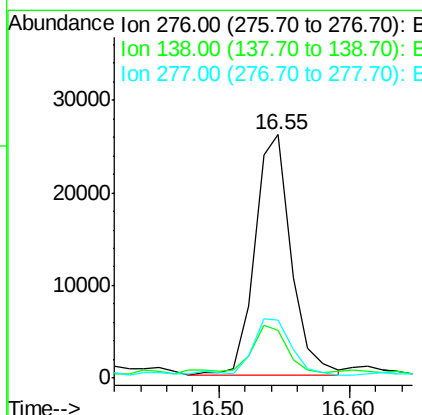
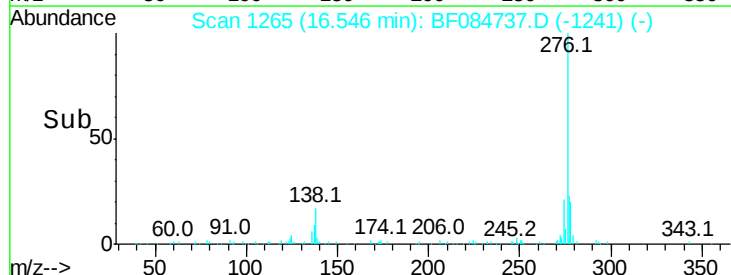
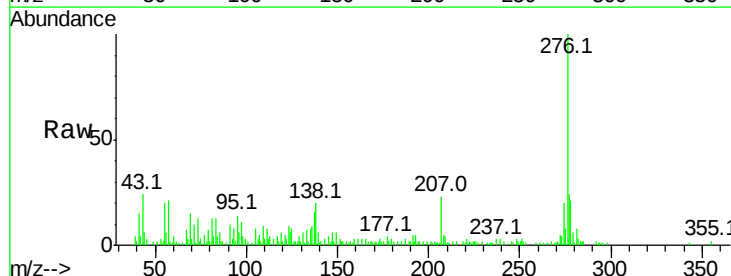
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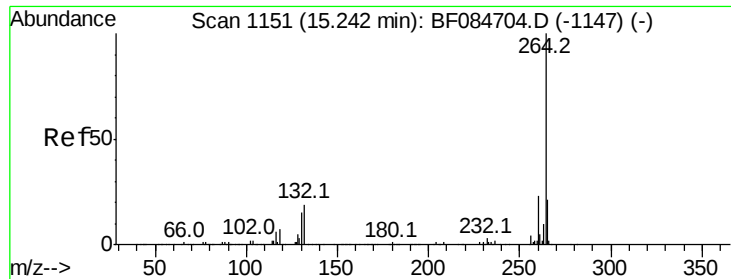
mohammad
2/2/2016 4:18:50 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 3.00 ng/mL
RT: 16.55 min Scan# 1265
Delta R.T. -0.02 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Tgt Ion:	276	Resp:	50140
Ion Ratio	Lower	Upper	
276	100		
138	21.9	20.6	30.8
277	24.7	20.1	30.1





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.24 min Scan# 1151

Delta R.T. -0.01 min

Lab File: BF084737.D

Acq: 2 Feb 2016 4:13

Instrument :

BNA_F

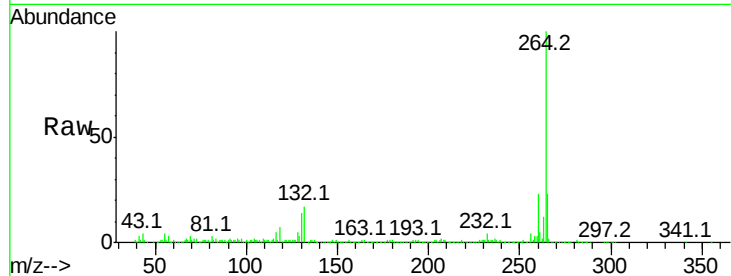
ClientSampleId :

SUP-B012(30.5-32.5)

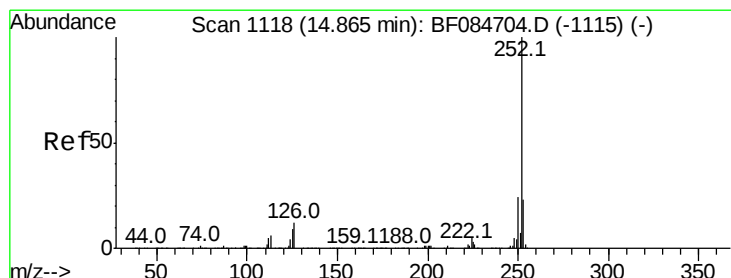
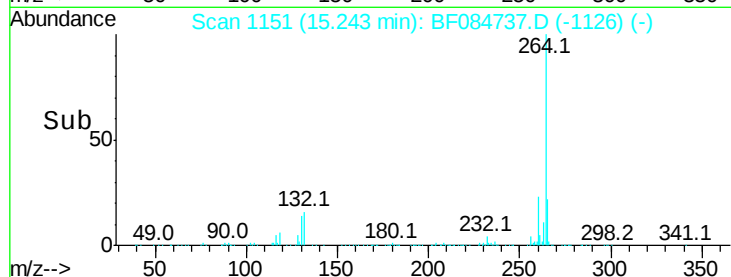
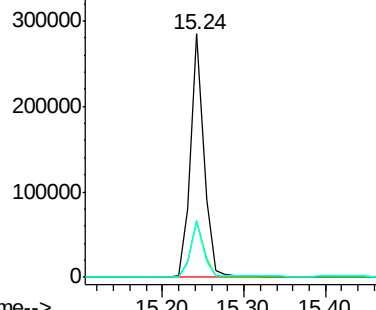
Tot Ion:	264	Resp:	327157
Ion Ratio	Lower	Upper	
264	100		
260	23.2	19.4	29.2
265	22.5	17.8	26.6

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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: 4.30 ng m

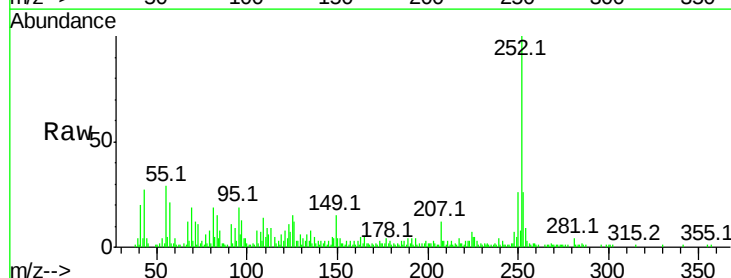
RT: 14.87 min Scan# 1118

Delta R.T. -0.01 min

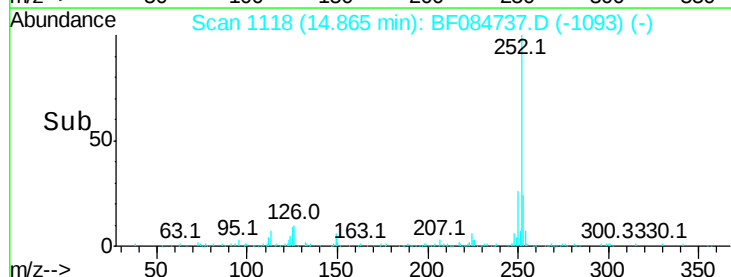
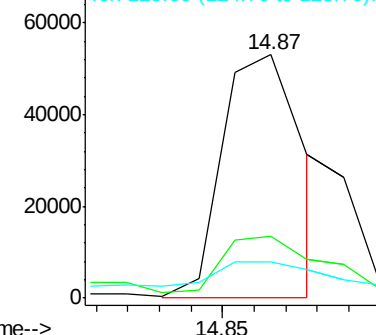
Lab File: BF084737.D

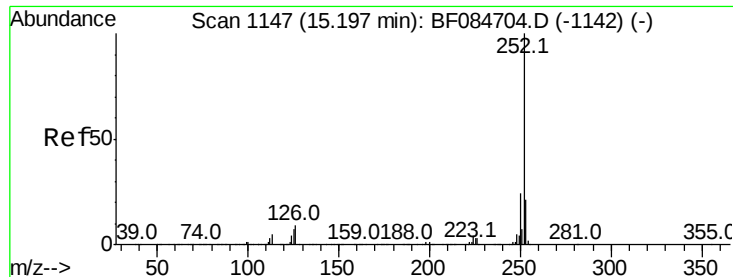
Acq: 2 Feb 2016 4:13

Tgt Ion:	252	Resp:	94548
Ion Ratio	Lower	Upper	
252	100		
253	25.6	17.3	25.9
125	14.9	6.5	9.7#



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





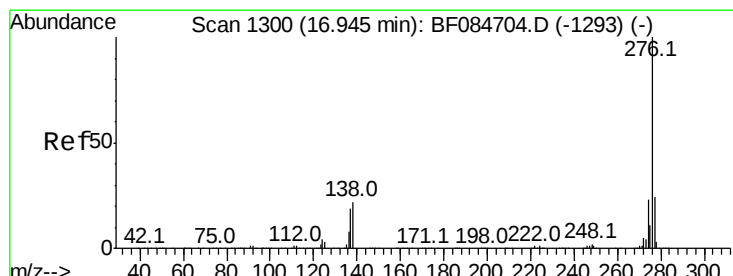
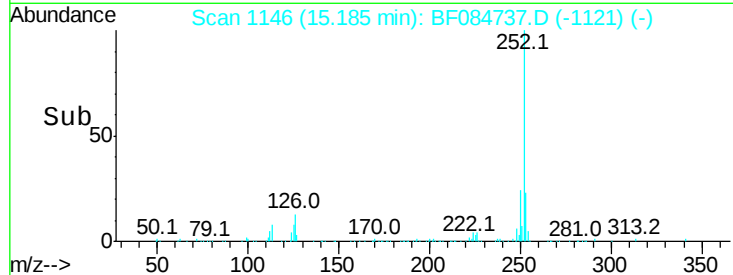
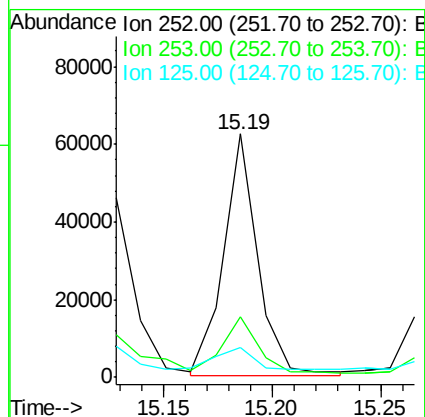
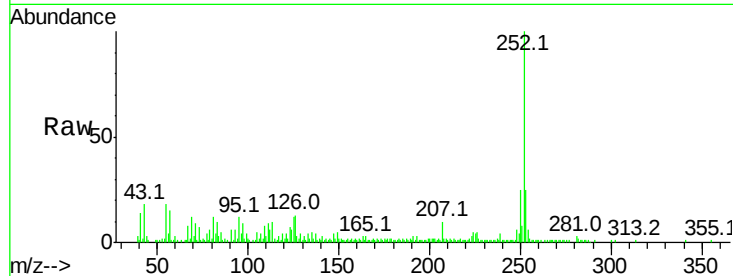
#89
Benzo(a)pyrene
Concen: 3.61 ng
RT: 15.19 min Scan# 1146
Delta R.T. -0.01 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Instrument :
BNA_F
ClientSampleId :
SUP-B012(30.5-32.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.3	25.9
125	12.3	7.0	10.4

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 3.31 ng
RT: 16.93 min Scan# 1299
Delta R.T. -0.02 min
Lab File: BF084737.D
Acq: 2 Feb 2016 4:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.8	28.2
138	21.2	17.8	26.6

