

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
 Data File : BF084932.D
 Acq On : 8 Feb 2016 16:55
 Operator : SJ/IZ
 Sample : H1311-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B018(10-11)

Manual Integrations
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 2/9/2016 3:28:51 PM

Quant Time: Feb 09 12:05:49 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	6.65	152	162569	20.00	ng	-0.03
21) Naphthalene-d8	7.94	136	684475	20.00	ng	-0.03
38) Acenaphthene-d10	9.69	164	314046	20.00	ng	-0.05
63) Phenanthrene-d10	11.16	188	541391	20.00	ng	-0.05
75) Chrysene-d12	13.79	240	346414	20.00	ng	-0.05
86) Perylene-d12	15.16	264	304620	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.24	112	1068244	102.35	ng	-0.03
7) Phenol-d6	6.30	99	1351676	104.46	ng	-0.03
23) Nitrobenzene-d5	7.22	82	861250	70.88	ng	-0.05
41) 2,4,6-Tribromophenol	10.48	330	282368	86.20	ng	-0.05
44) 2-Fluorobiphenyl	9.01	172	1356200	68.08	ng	-0.05
78) Terphenyl-d14	12.75	244	1097324	71.78	ng	-0.05

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	7.95	128	117506	3.42	ng	98
49) Dimethylphthalate	9.41	163	273088	11.42	ng	# 90
54) Dibenzofuran	9.88	168	70321	2.82	ng	93
57) Fluorene	10.22	166	52786	2.54	ng	# 99
70) Phenanthrene	11.18	178	859626	28.63	ng	98
71) Anthracene	11.23	178	126866	4.19	ng	97
72) Carbazole	11.40	167	69483	2.63	ng	98
74) Fluoranthene	12.37	202	844052	27.77	ng	94
77) Pyrene	12.59	202	669826	25.25	ng	97
79) Butylbenzylphthalate	13.23	149	196165	16.30	ng	93
80) Benzo(a)anthracene	13.78	228	276818	12.87	ng	97
82) Chrysene	13.81	228	213213	10.23	ng	98
85) Indeno(1,2,3-cd)pyrene	16.42	276	120223	7.33	ng	95
87) Benzo(b)fluoranthene	14.79	252	244473m	11.94	ng	
88) Benzo(k)fluoranthene	14.80	252	99709m	5.89	ng	
89) Benzo(a)pyrene	15.11	252	175168	10.04	ng	97
90) Dibenzo(a,h)anthracene	16.43	278	33131m	2.26	ng	
91) Benzo(g,h,i)perylene	16.80	276	108724	7.35	ng	99

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

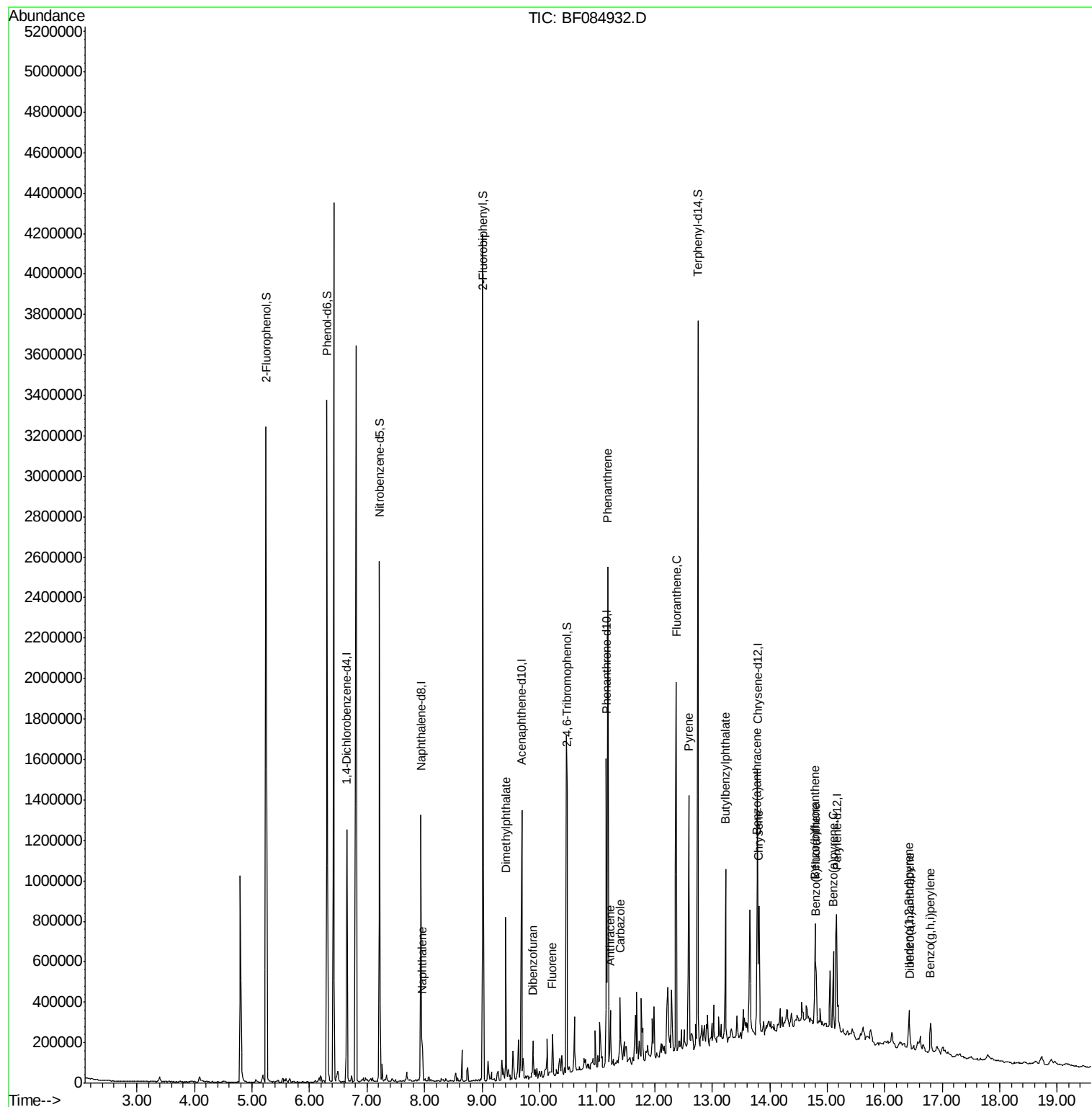
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020816\
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

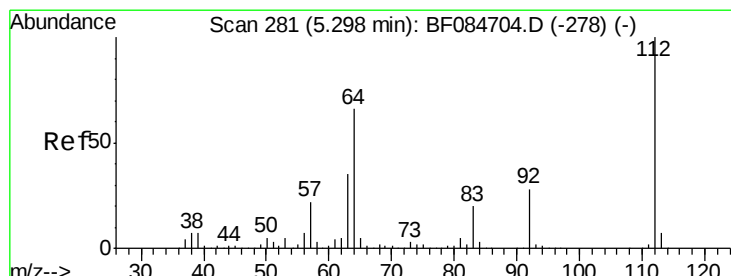
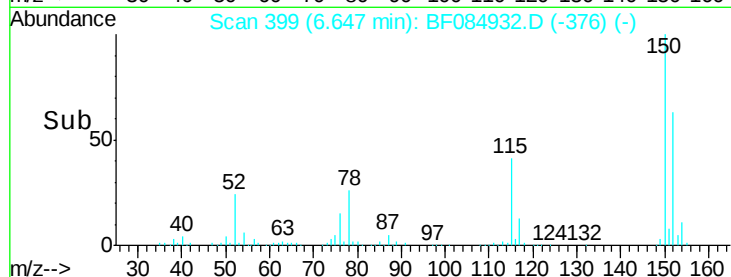
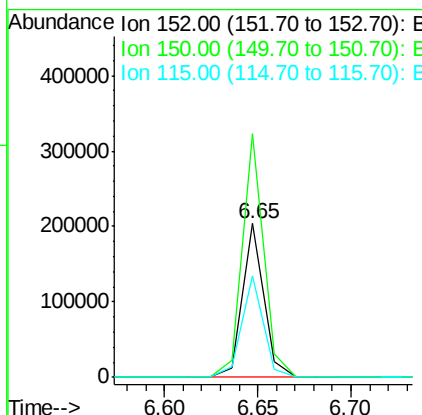
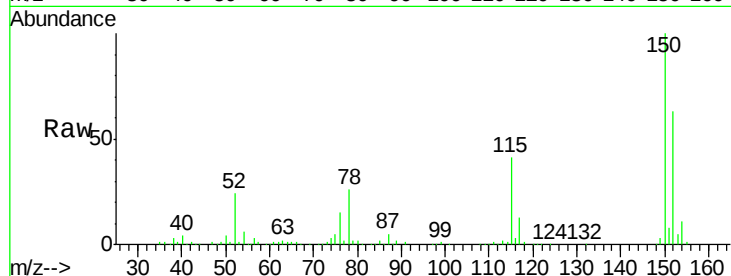
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.65 min Scan# 399
Delta R.T. -0.03 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Instrument :
BNA_F
ClientSampleId :
SUP-B018(10-11)

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	162569		
150	158.7	123.0	184.4	
115	65.8	51.4	77.2	

Manual Integrations
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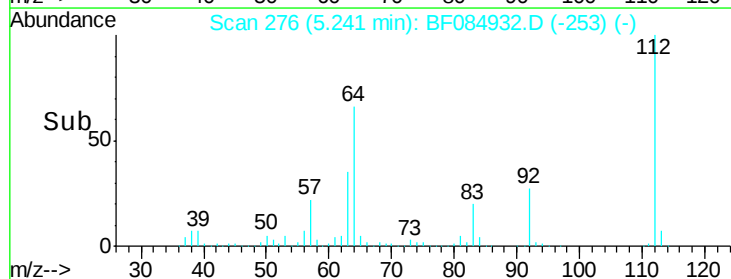
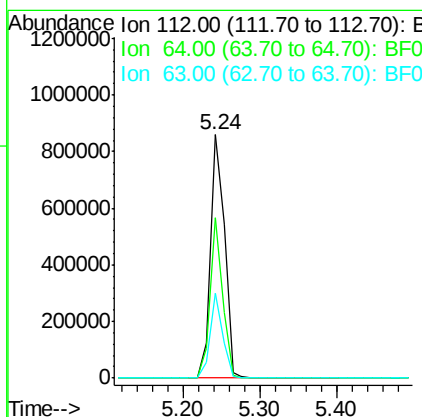
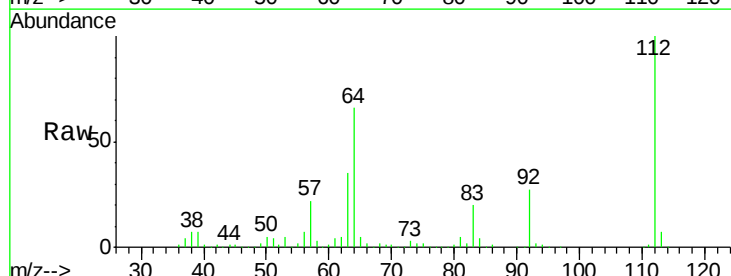
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#5

2-Fluorophenol
Concen: 102.35 ng
RT: 5.24 min Scan# 276
Delta R.T. -0.03 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	1068244		
64	66.1	36.6	55.0#	
63	34.6	19.4	29.0#	





#7

Phenol-d6

Concen: 104.46 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.03 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

ClientSampleId :

SUP-B018(10-11)

Tgt Ion: 99 Resp: 1351676

Ion Ratio Lower Upper

99 100

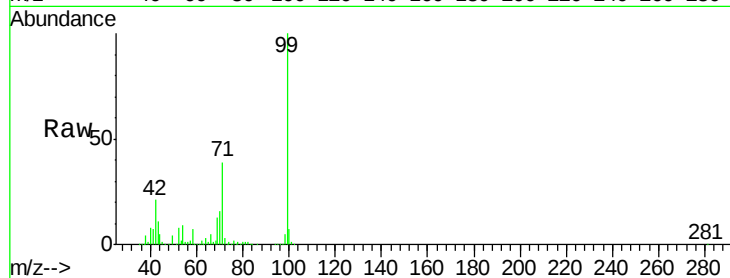
42 21.3 12.8 19.2#

71 38.6 30.9 46.3

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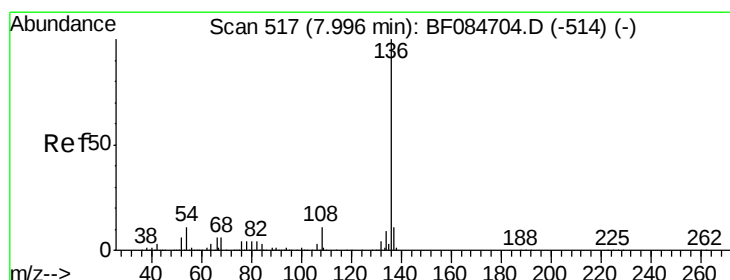
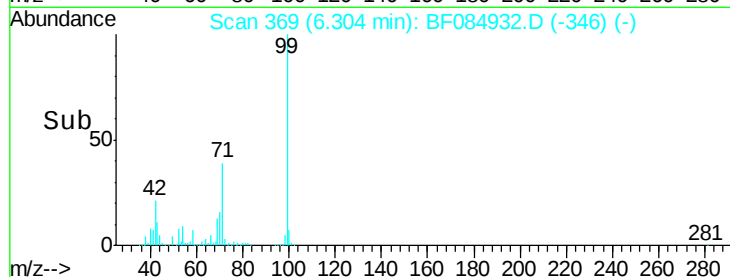
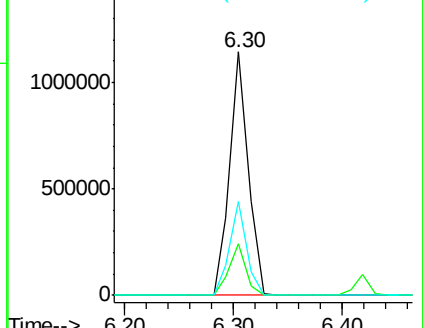
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.94 min Scan# 512

Delta R.T. -0.03 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Tgt Ion: 136 Resp: 684475

Ion Ratio Lower Upper

136 100

137 10.6 8.7 13.1

54 6.6 5.8 8.8

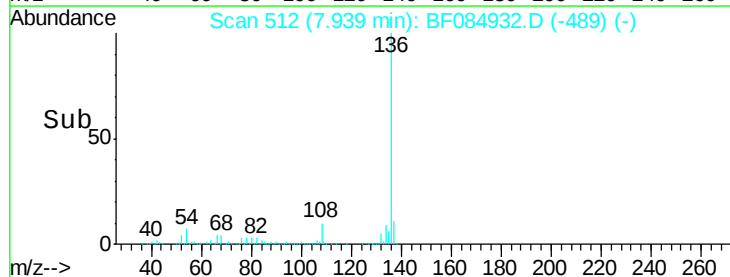
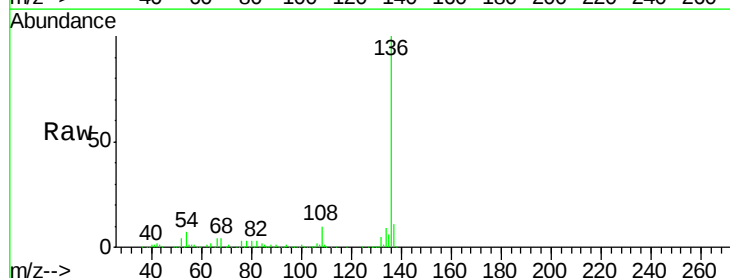
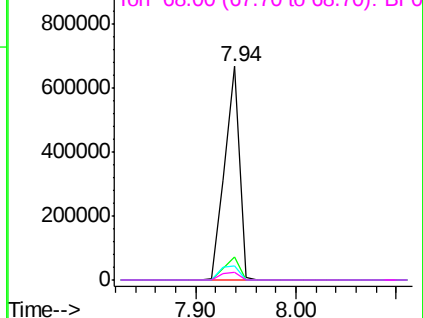
68 3.7 4.2 6.2#

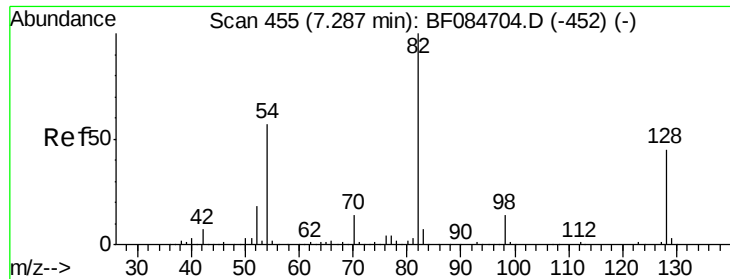
Abundance Ion 136.00 (135.70 to 136.70): E

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: 70.88 ng

RT: 7.22 min Scan# 449

Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

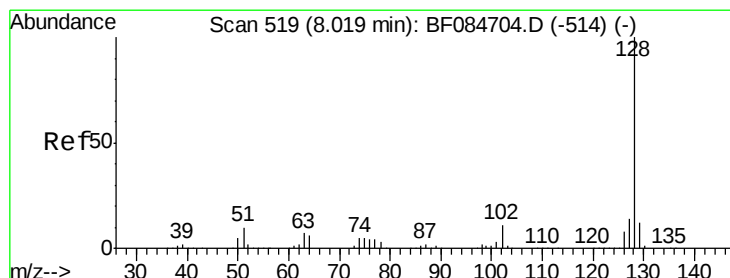
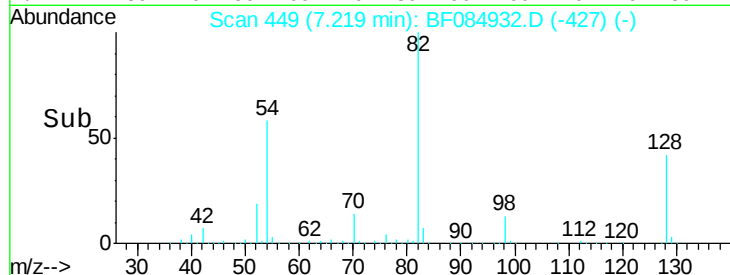
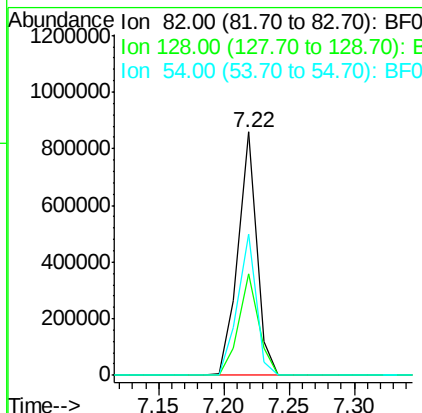
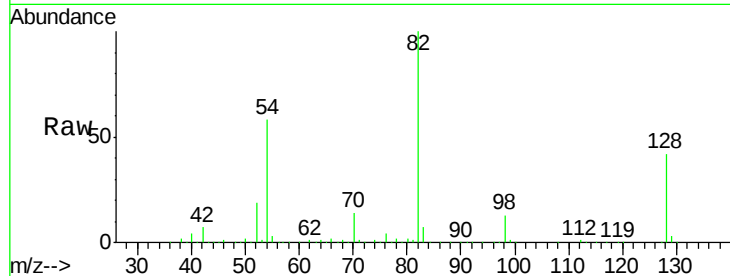
ClientSampleId :

SUP-B018(10-11)

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	861250		
128	41.6	34.6	51.8	
54	58.2	38.4	57.6	

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#31

Naphthalene

Concen: 3.42 ng

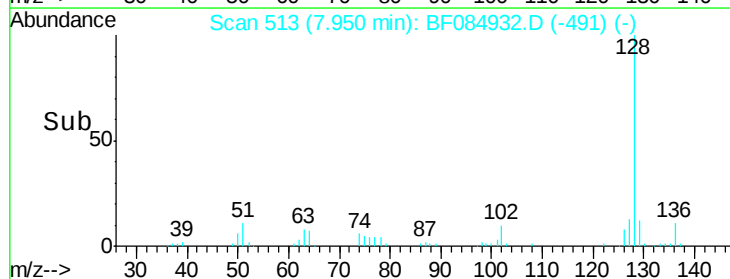
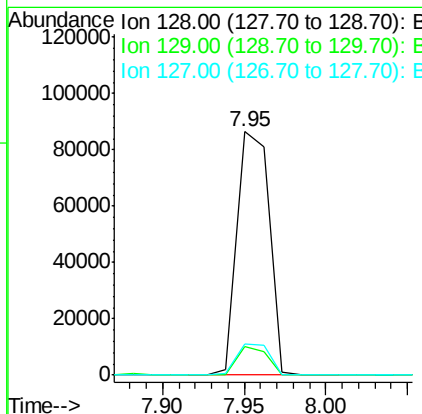
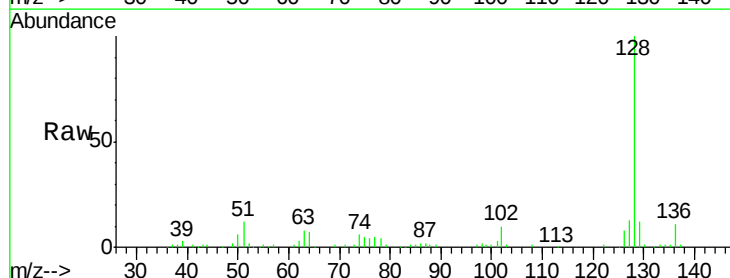
RT: 7.95 min Scan# 513

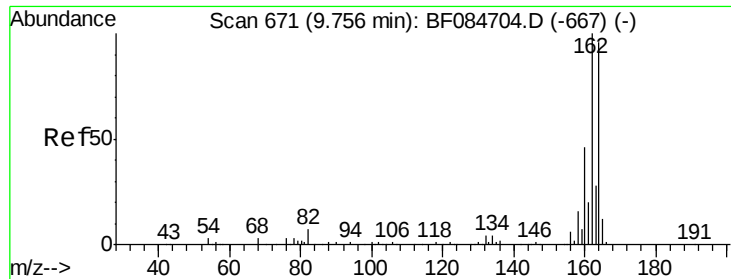
Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	117506		
129	12.0	9.1	13.7	
127	13.0	11.1	16.7	





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.69 min Scan# 665

Delta R.T. -0.05 min

Lab File: BF084932.D

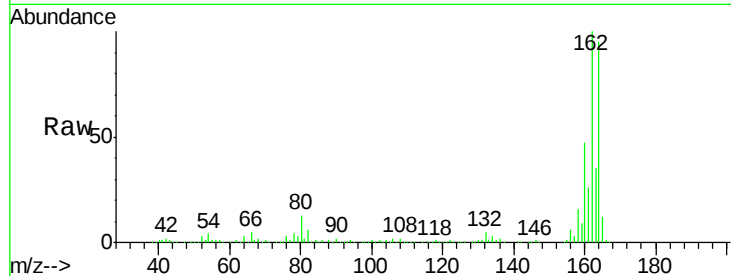
Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

ClientSampleId :

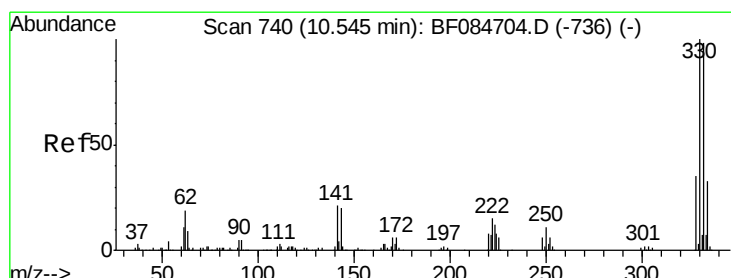
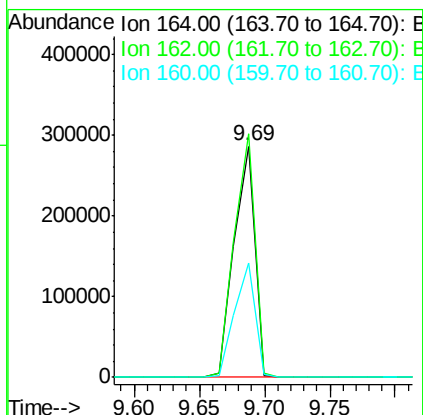
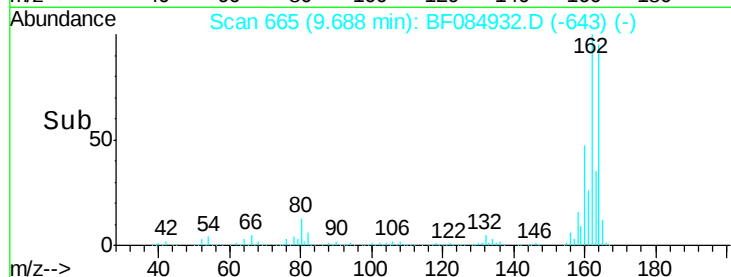
SUP-B018(10-11)



Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	85.1	127.7
160	49.5	37.5	56.3

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#41

2,4,6-Tribromophenol

Concen: 86.20 ng

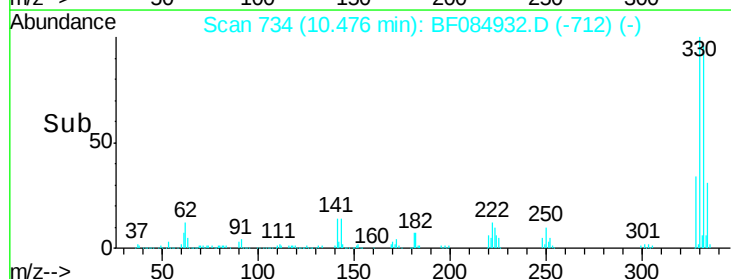
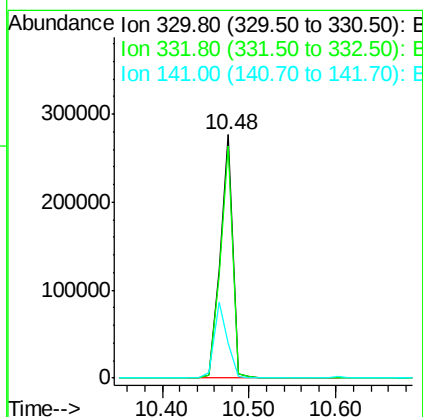
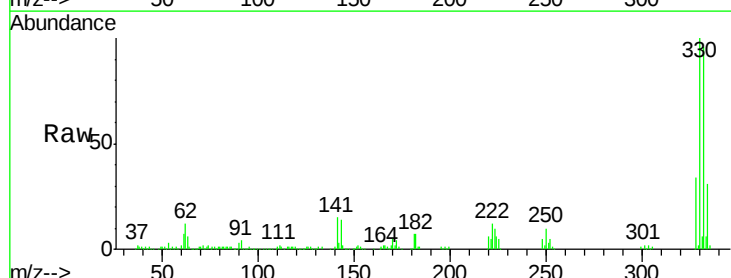
RT: 10.48 min Scan# 734

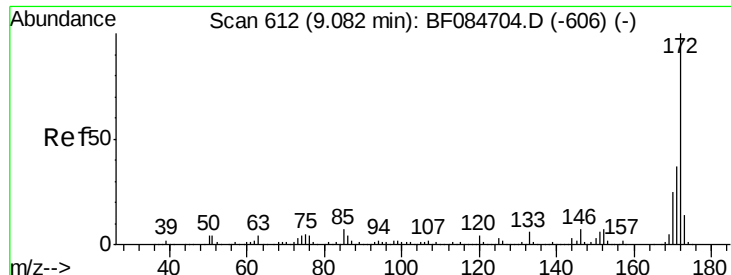
Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.6	114.8
141	32.7	27.8	41.6





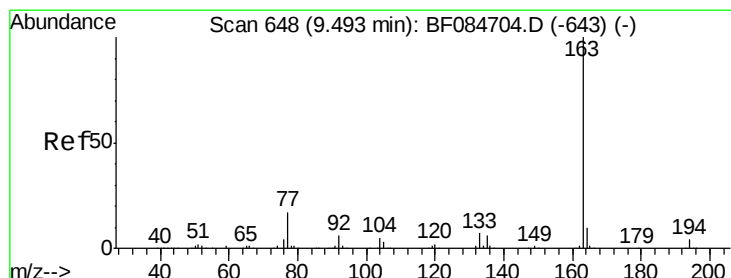
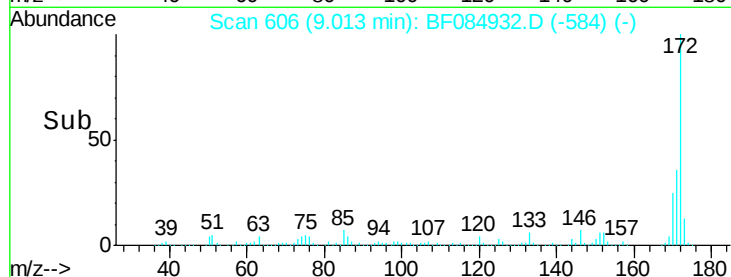
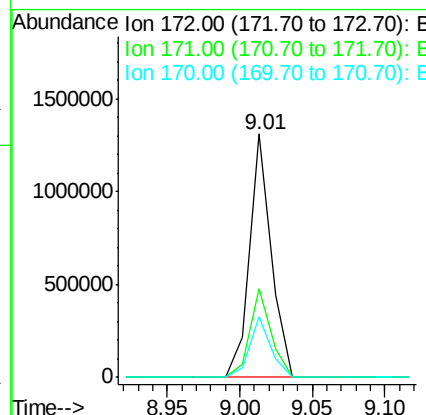
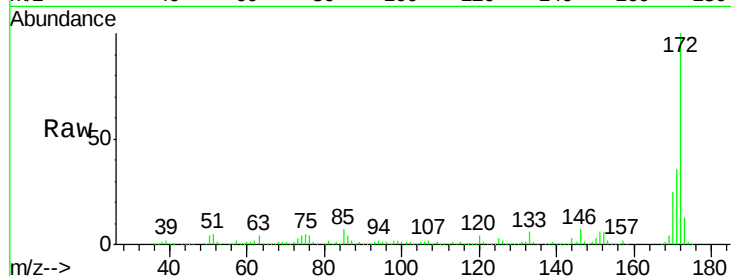
#44
 2-Fluorobiphenyl
 Concen: 68.08 ng
 RT: 9.01 min Scan# 606
 Delta R.T. -0.05 min
 Lab File: BF084932.D
 Acq: 8 Feb 2016 16:55

Instrument :
 BNA_F
 ClientSampleId :
 SUP-B018(10-11)

Tgt Ion:172 Resp: 1356200
 Ion Ratio Lower Upper
 172 100
 171 36.3 28.9 43.3
 170 24.6 18.6 27.8

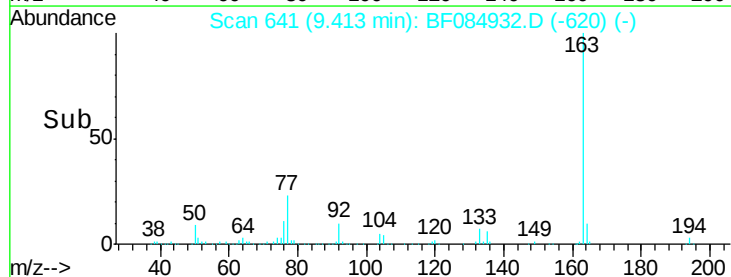
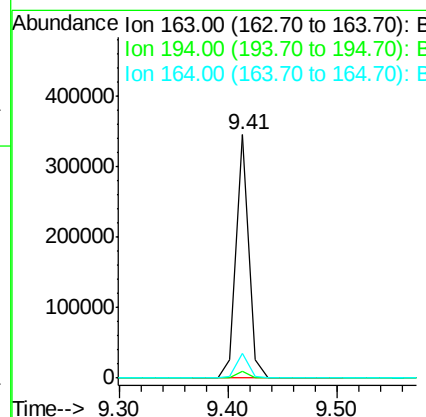
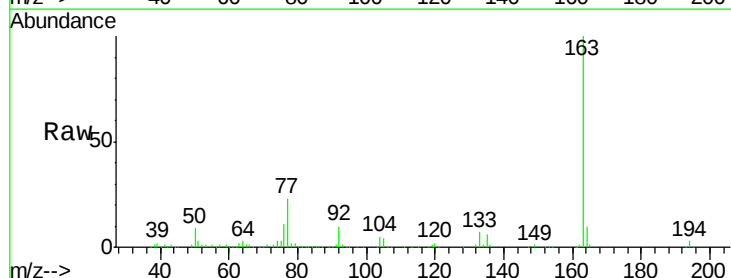
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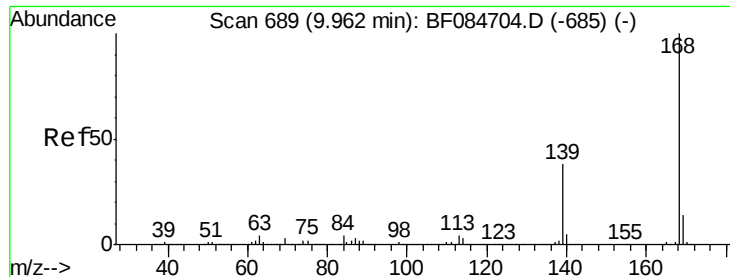
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#49
 Dimethylphthalate
 Concen: 11.42 ng
 RT: 9.41 min Scan# 641
 Delta R.T. -0.06 min
 Lab File: BF084932.D
 Acq: 8 Feb 2016 16:55

Tgt Ion:163 Resp: 273088
 Ion Ratio Lower Upper
 163 100
 194 3.0 8.0 12.0#
 164 10.2 8.0 12.0





#54

Dibenzofuran

Concen: 2.82 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.06 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

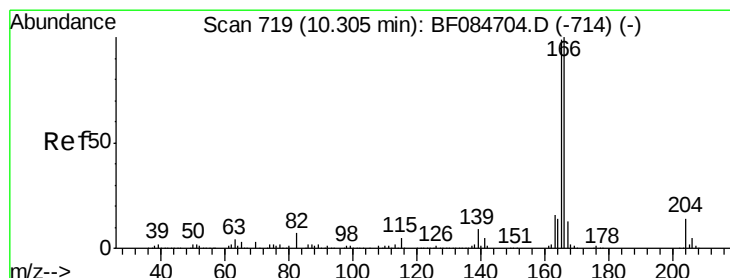
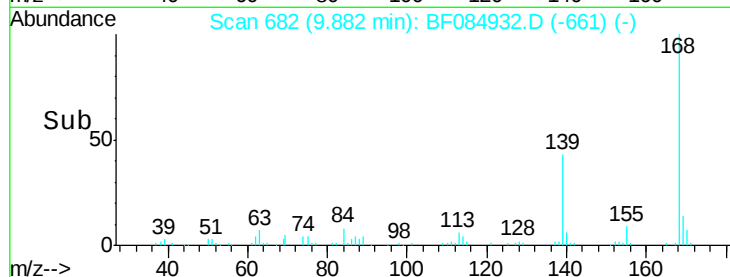
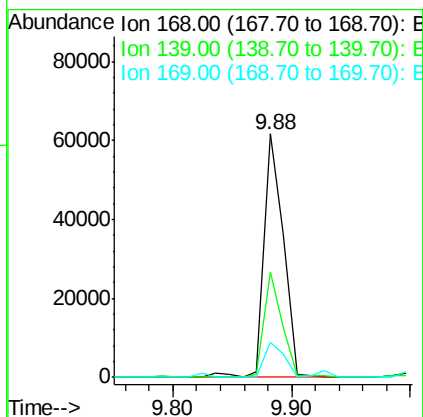
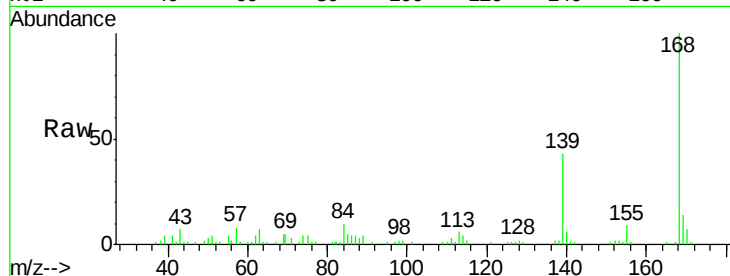
ClientSampleId :

SUP-B018(10-11)

Tgt Ion:	168	Resp:	70321
Ion Ratio	Lower	Upper	
168	100		
139	43.4	30.5	45.7
169	14.3	10.4	15.6

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#57

Fluorene

Concen: 2.54 ng

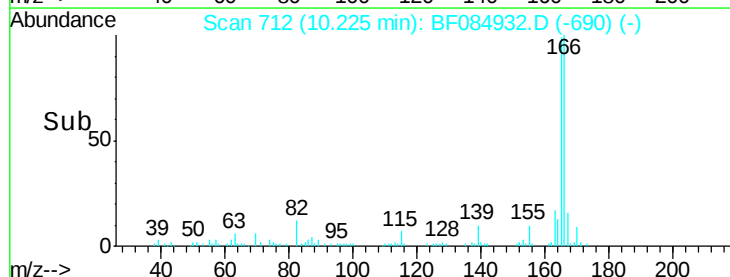
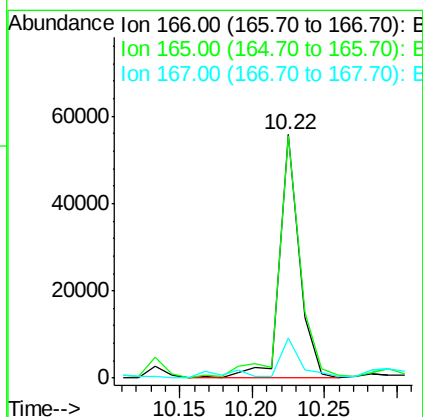
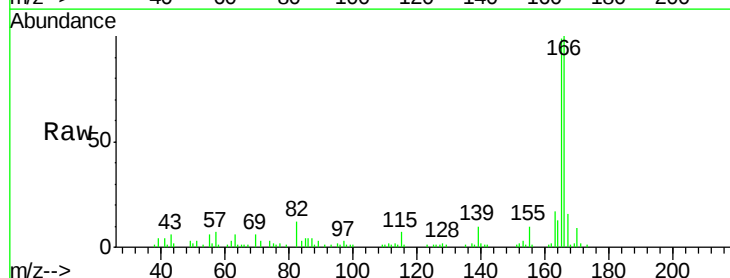
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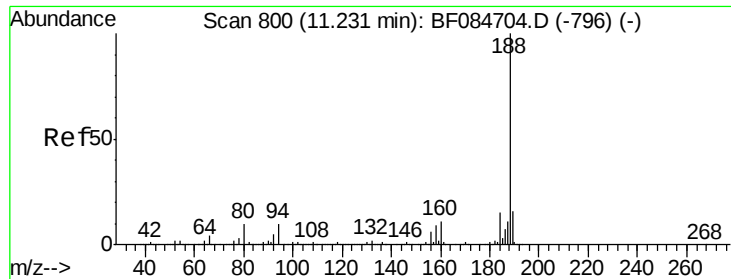
Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Tgt Ion:	166	Resp:	52786
Ion Ratio	Lower	Upper	
166	100		
165	99.3	79.1	118.7
167	16.5	10.4	15.6#





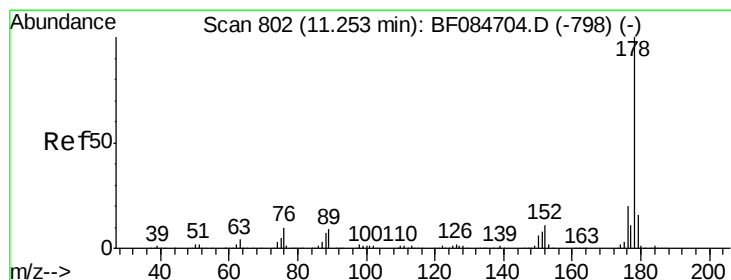
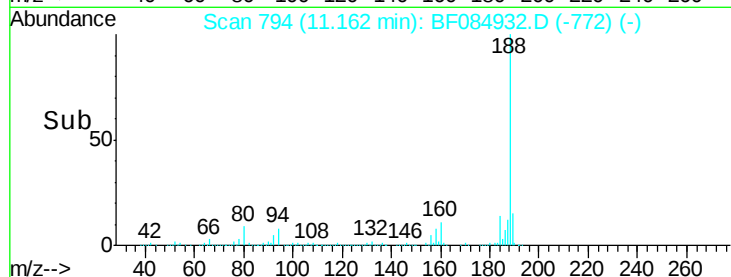
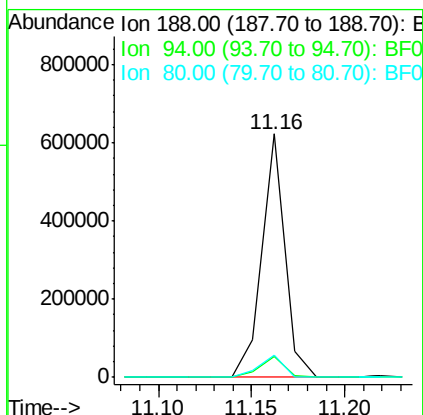
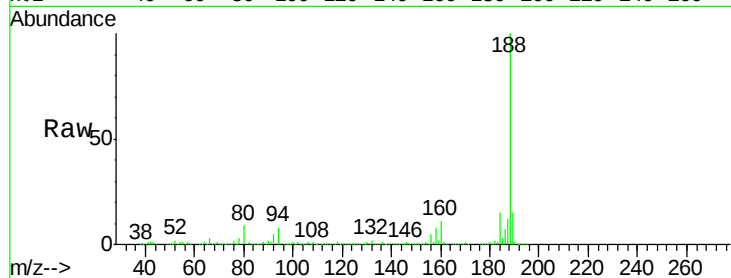
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.16 min Scan# 794
Delta R.T. -0.05 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Instrument :
BNA_F
ClientSampleId :
SUP-B018(10-11)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.3	9.0	13.4#
80	9.2	9.6	14.4#

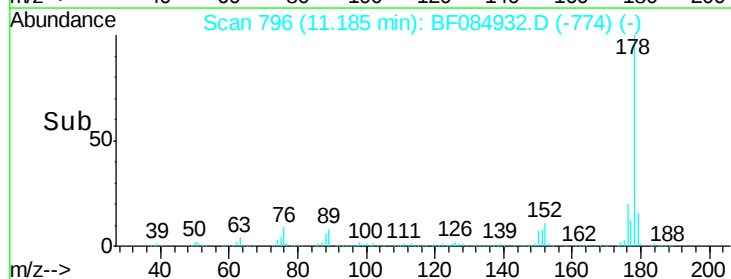
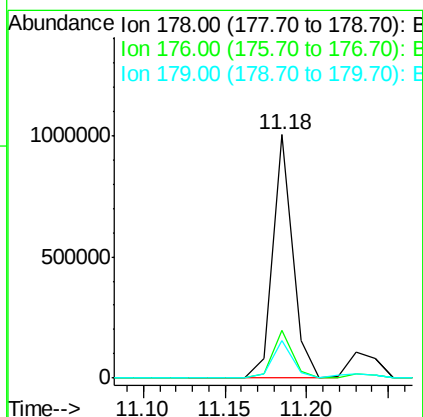
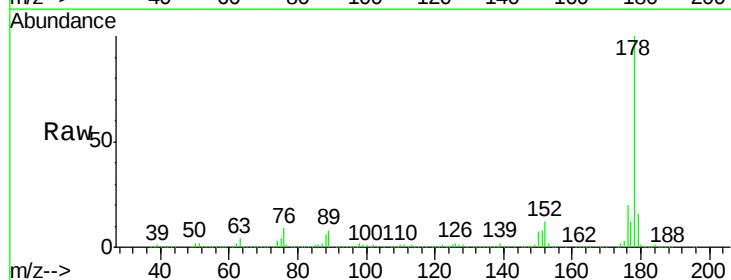
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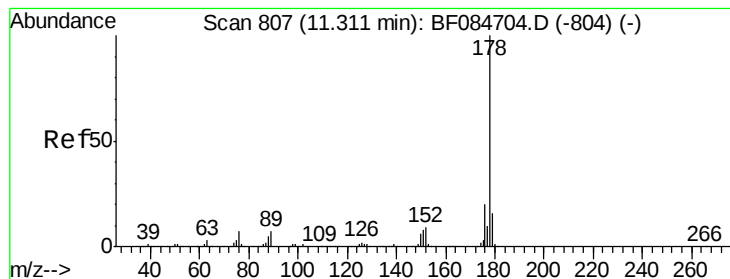
UMANGI
2/9/2016 3:28:51 PM



#70
Phenanthrene
Concen: 28.63 ng
RT: 11.18 min Scan# 796
Delta R.T. -0.05 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.9	15.3	22.9
179	15.7	12.0	18.0





#71

Anthracene

Concen: 4.19 ng

RT: 11.23 min Scan# 800

Delta R.T. -0.06 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

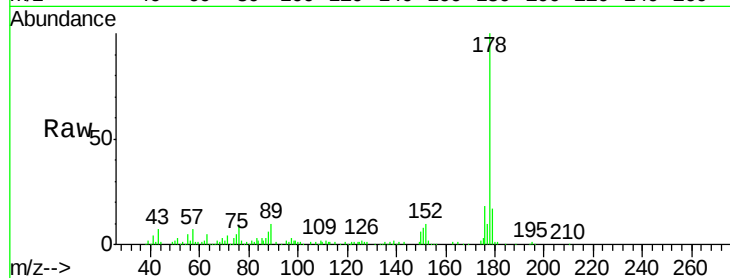
ClientSampleId :

SUP-B018(10-11)

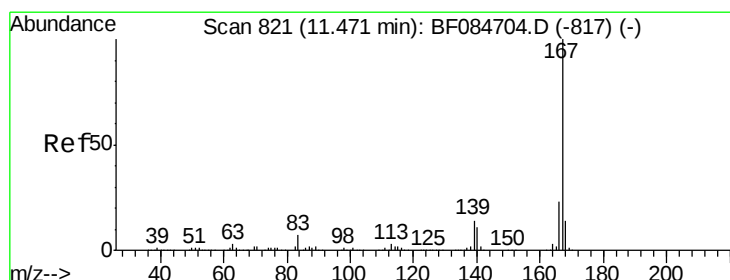
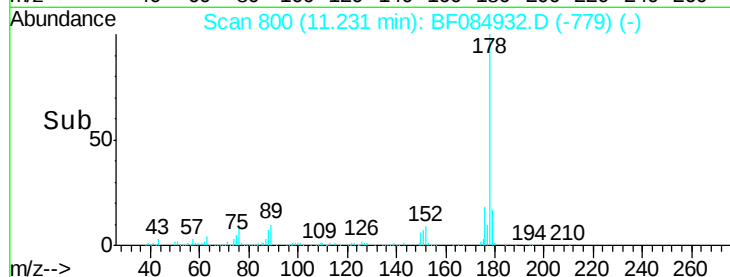
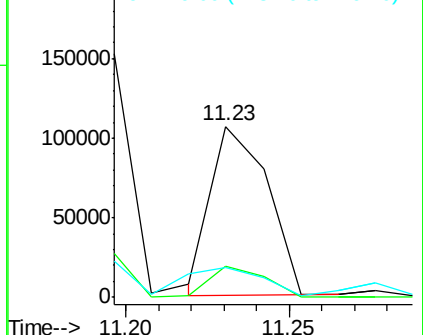
Tgt Ion:	178	Resp:	126866
Ion Ratio	Lower	Upper	
178	100		
176	18.1	15.4	23.0
179	17.2	12.5	18.7

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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



#72

Carbazole

Concen: 2.63 ng

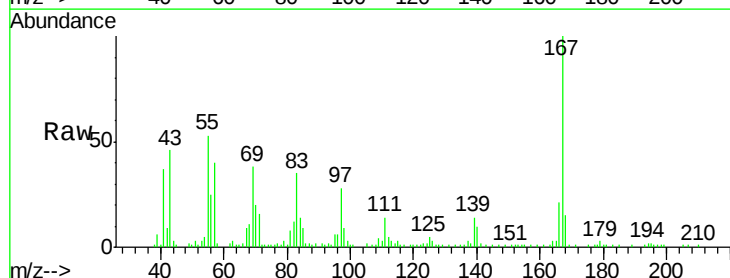
RT: 11.40 min Scan# 815

Delta R.T. -0.05 min

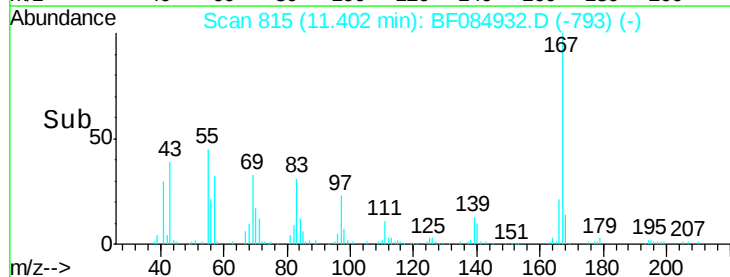
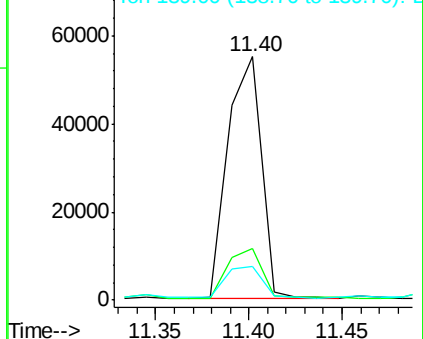
Lab File: BF084932.D

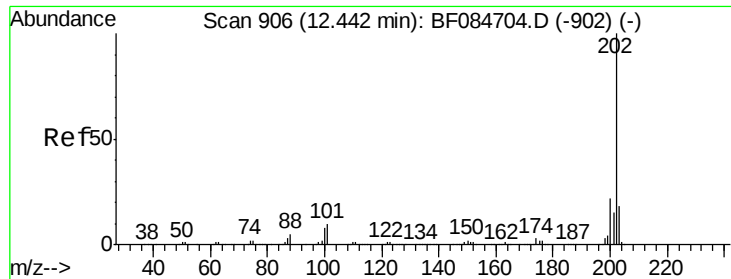
Acq: 8 Feb 2016 16:55

Tgt Ion:	167	Resp:	69483
Ion Ratio	Lower	Upper	
167	100		
166	20.9	17.6	26.4
139	13.6	11.8	17.8



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 27.77 ng

RT: 12.37 min Scan# 900

Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

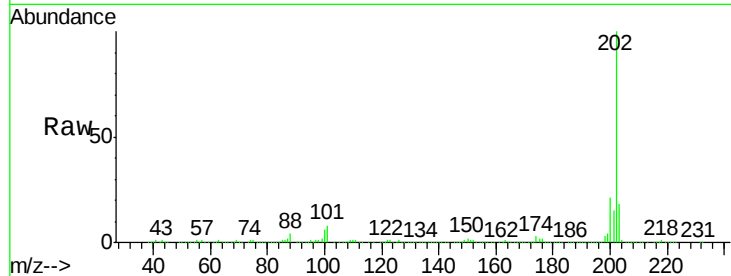
ClientSampleId :

SUP-B018(10-11)

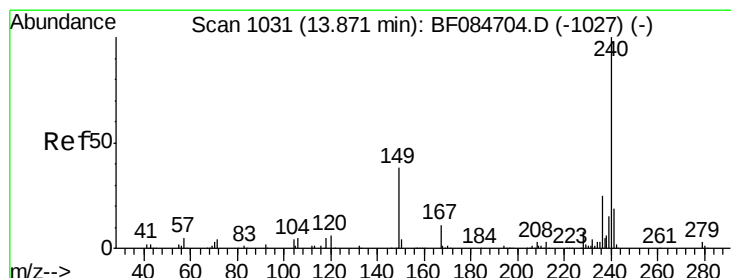
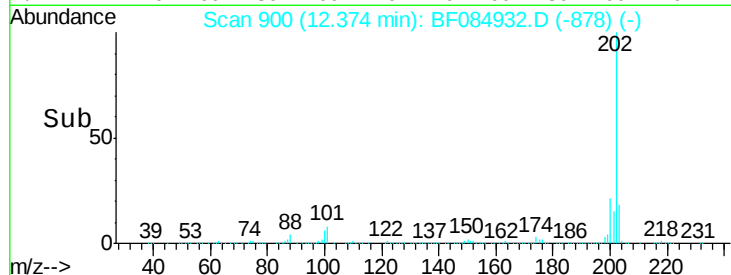
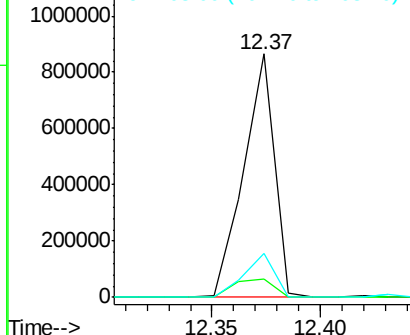
Tgt	Ion:202	Resp:	844052
Ion	Ratio	Lower	Upper
202	100		
101	7.6	0.0	32.8
203	18.1	0.0	37.9

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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



#75

Chrysene-d12

Concen: 20.00 ng

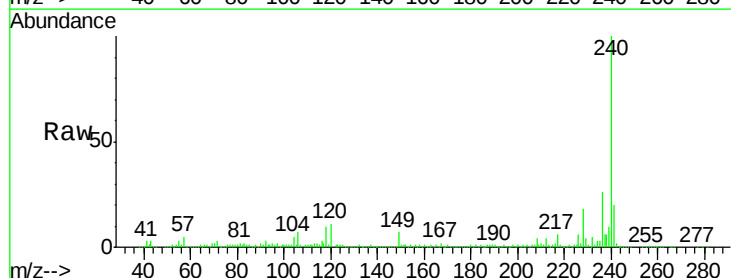
RT: 13.79 min Scan# 1024

Delta R.T. -0.05 min

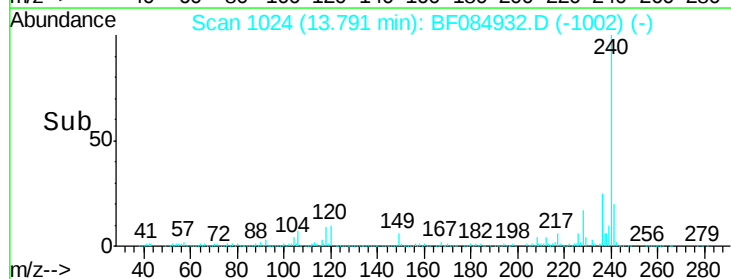
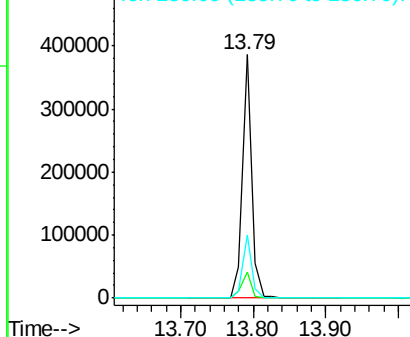
Lab File: BF084932.D

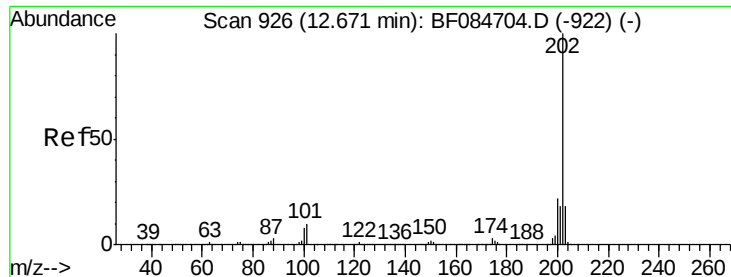
Acq: 8 Feb 2016 16:55

Tgt	Ion:240	Resp:	346414
Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.5	14.3
236	26.1	20.6	31.0



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 25.25 ng

RT: 12.59 min Scan# 919

Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

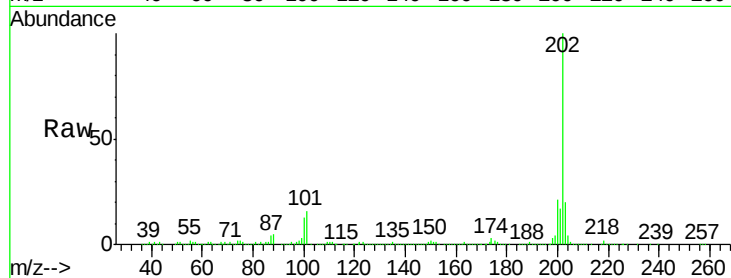
ClientSampleId :

SUP-B018(10-11)

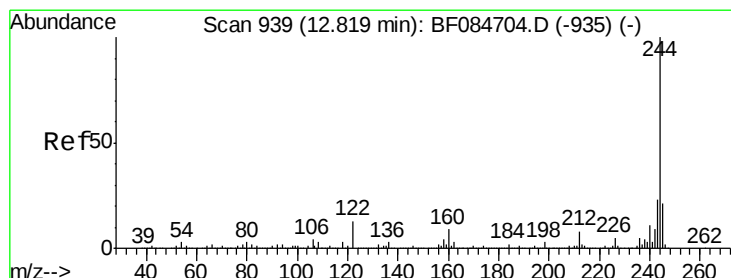
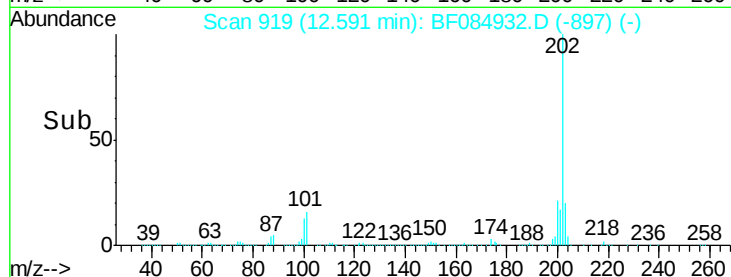
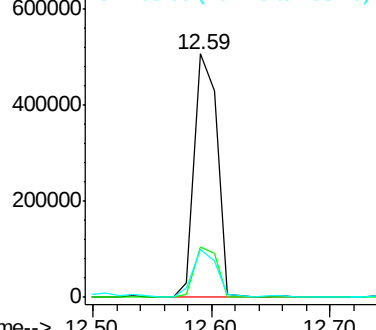
Tgt Ion:	202	Resp:	669826
Ion Ratio		Lower	Upper
202	100		
200	20.9	17.2	25.8
203	19.7	14.3	21.5

Manual Integrations
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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: 71.78 ng

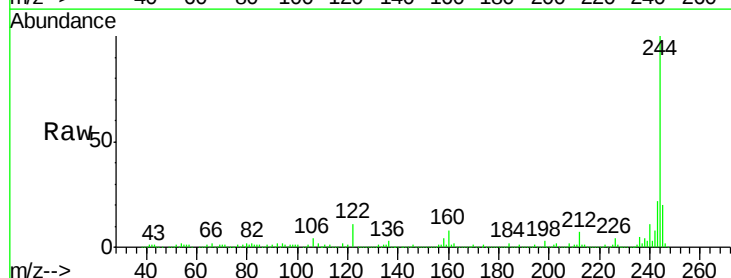
RT: 12.75 min Scan# 933

Delta R.T. -0.05 min

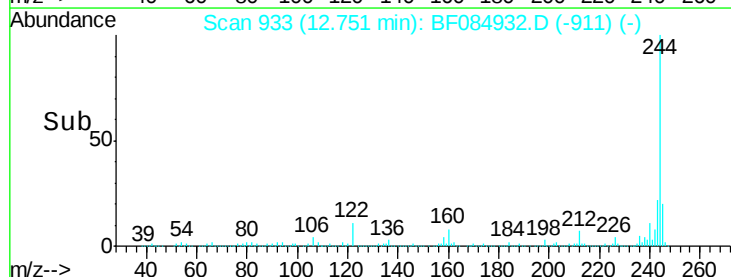
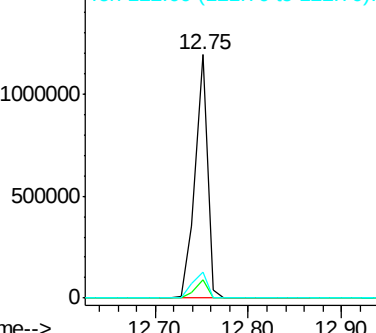
Lab File: BF084932.D

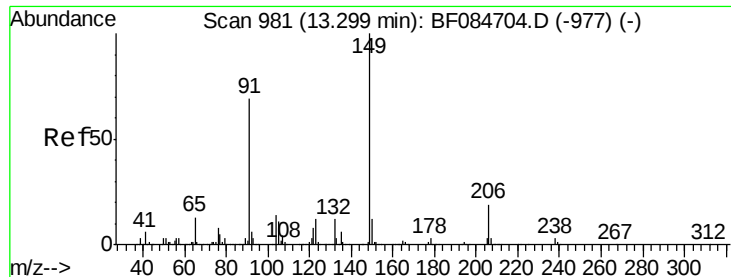
Acq: 8 Feb 2016 16:55

Tgt Ion:	244	Resp:	1097324
Ion Ratio		Lower	Upper
244	100		
212	7.5	5.7	8.5
122	10.5	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





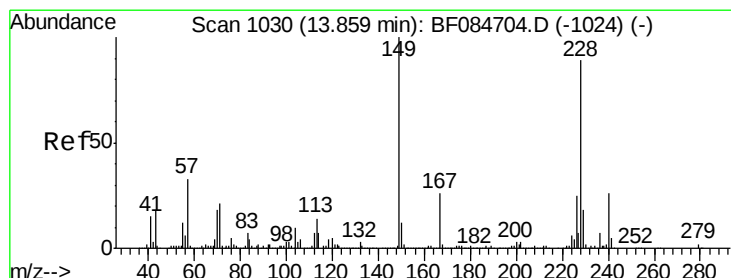
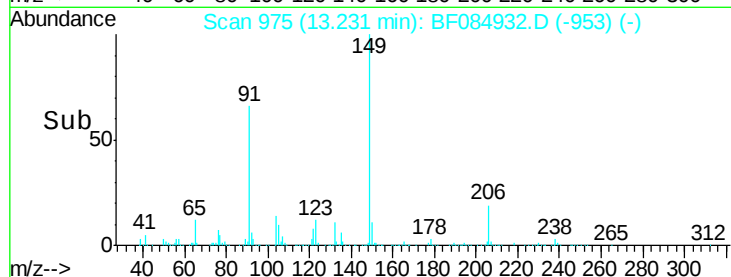
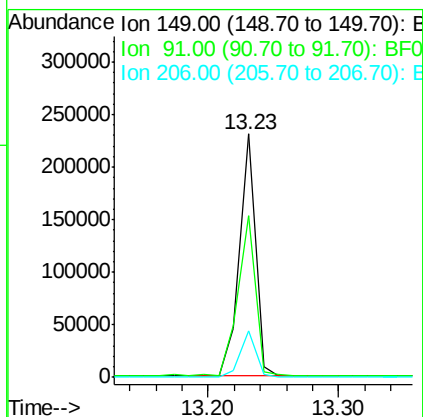
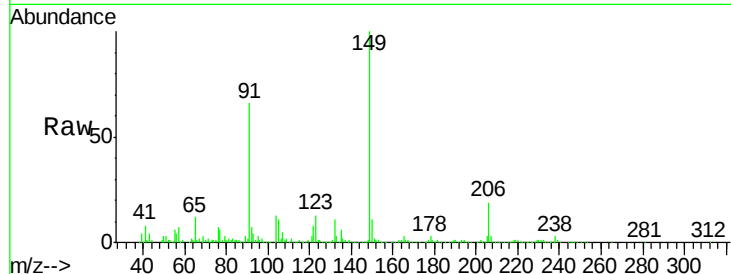
#79
Butylbenzylphthalate
Concen: 16.30 ng
RT: 13.23 min Scan# 975
Delta R.T. -0.05 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Instrument :
BNA_F
ClientSampleId :
SUP-B018(10-11)

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
91	66.3	57.6	86.4
206	19.2	13.2	19.8

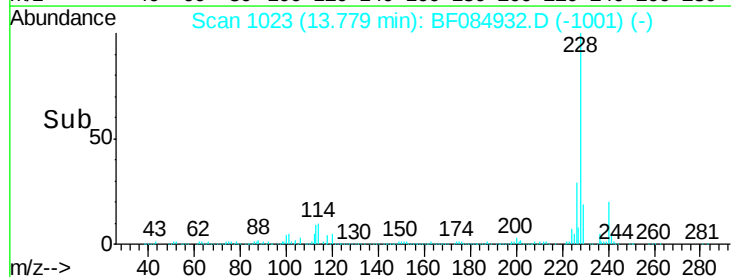
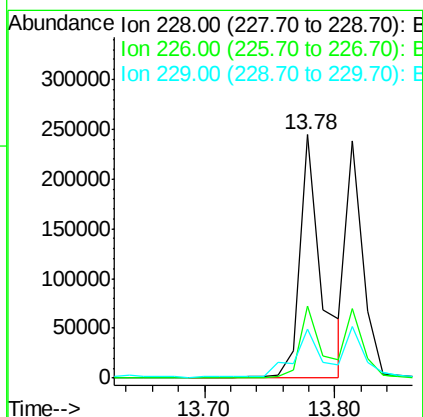
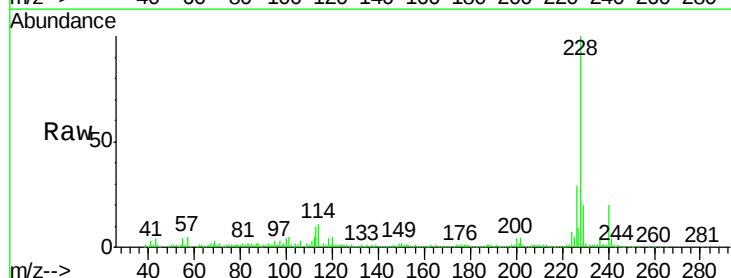
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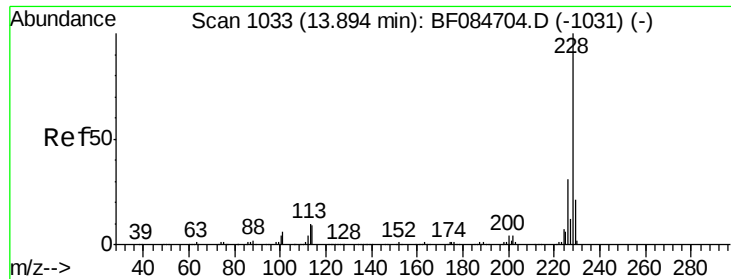
UMANGI
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#80
Benzo(a)anthracene
Concen: 12.87 ng
RT: 13.78 min Scan# 1023
Delta R.T. -0.05 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	29.4	21.8	32.6
229	20.2	15.8	23.8





#82

Chrysene

Concen: 10.23 ng

RT: 13.81 min Scan# 1026

Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

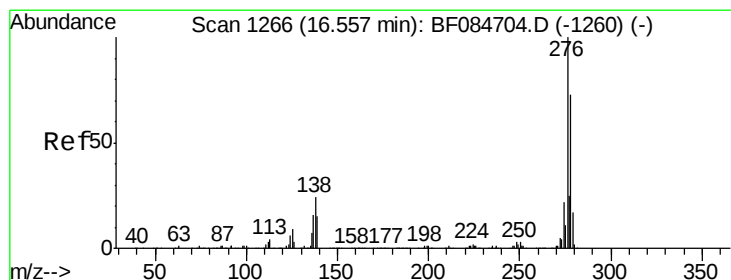
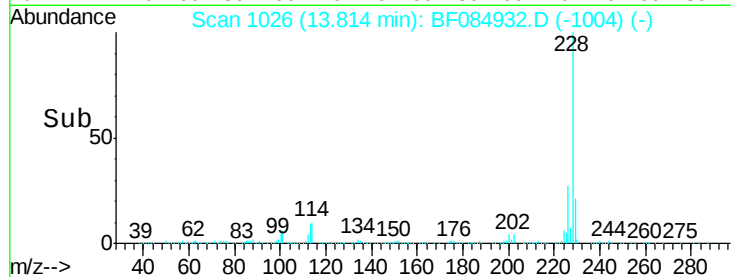
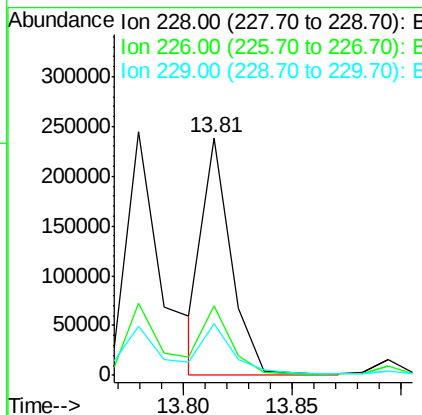
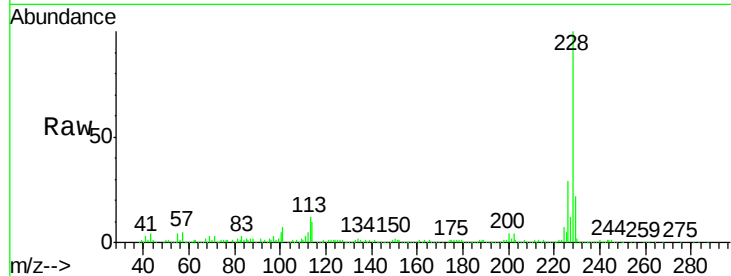
ClientSampleId :

SUP-B018(10-11)

Tgt Ion:	228	Resp:	213213
Ion Ratio		Lower	Upper
228	100		
226	29.4	24.3	36.5
229	21.5	16.1	24.1

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#85

Indeno(1,2,3-cd)pyrene

Concen: 7.33 ng

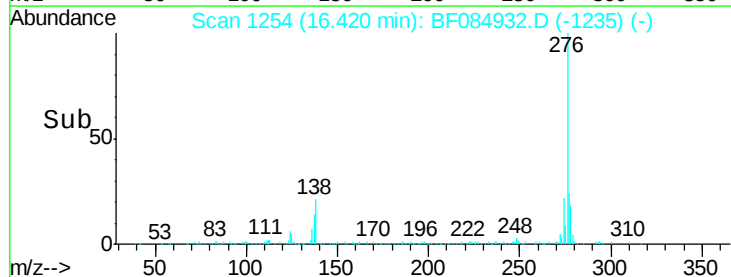
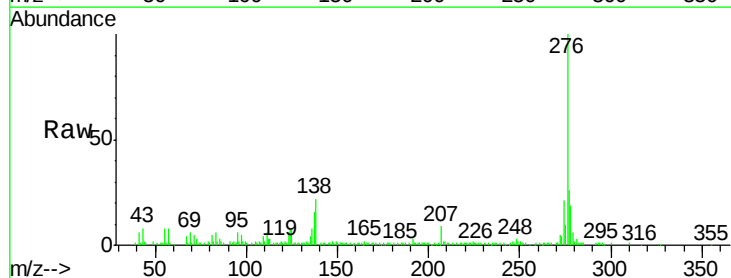
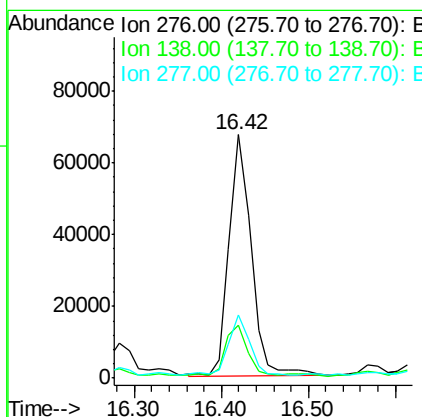
RT: 16.42 min Scan# 1254

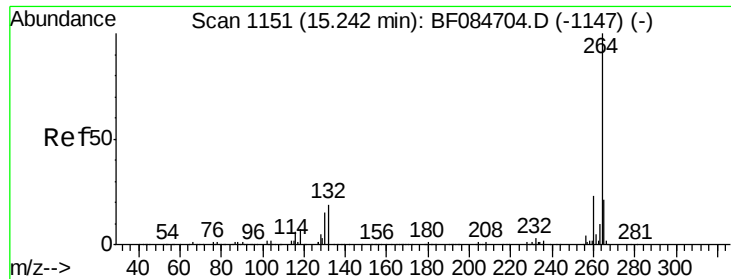
Delta R.T. -0.08 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Tgt Ion:	276	Resp:	120223
Ion Ratio		Lower	Upper
276	100		
138	21.6	20.6	30.8
277	24.1	20.1	30.1





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.16 min Scan# 1144

Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Instrument :

BNA_F

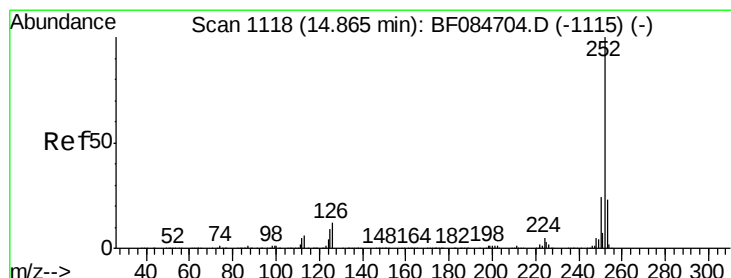
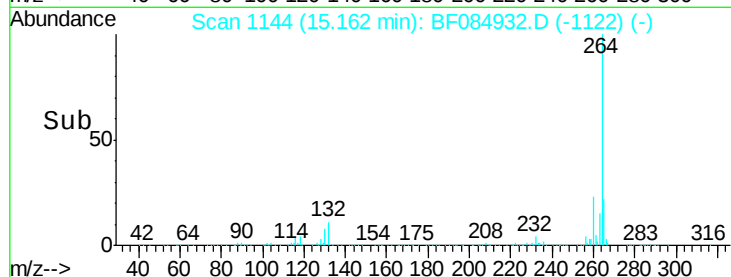
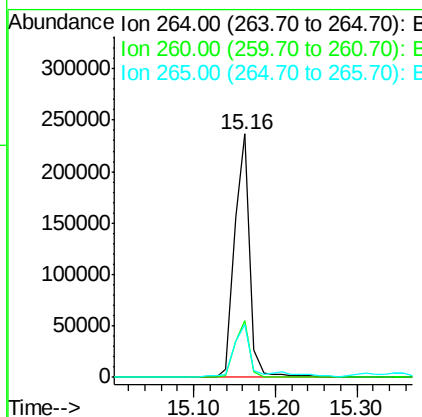
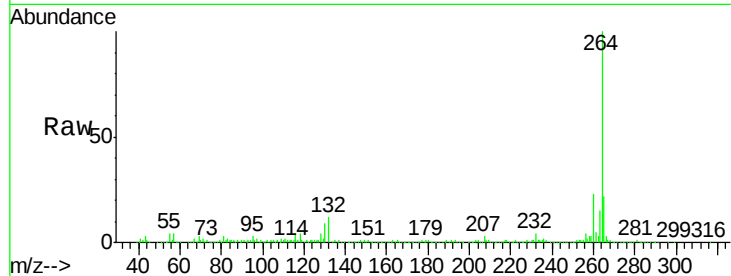
ClientSampleId :

SUP-B018(10-11)

Tgt	Ion	Ratio	Resp	Lower	Upper
264	100		304620		
260	23.4		19.4	29.2	
265	22.0		17.8	26.6	

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#87

Benzo(b)fluoranthene

Concen: 11.94 ng m

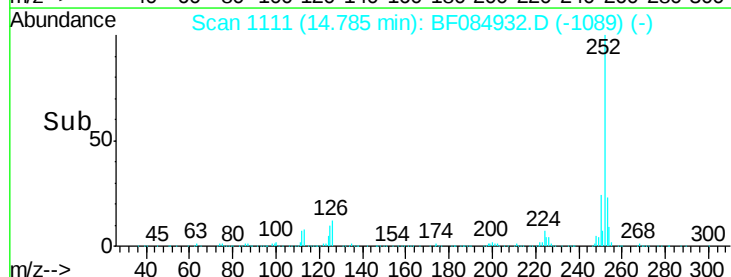
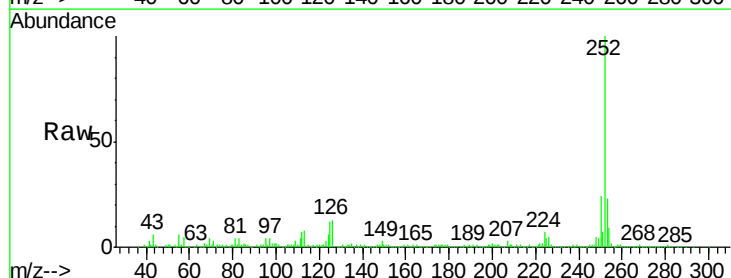
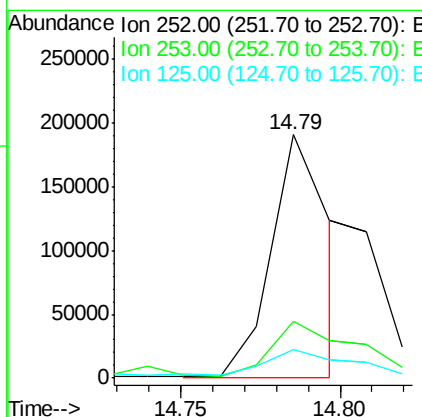
RT: 14.79 min Scan# 1111

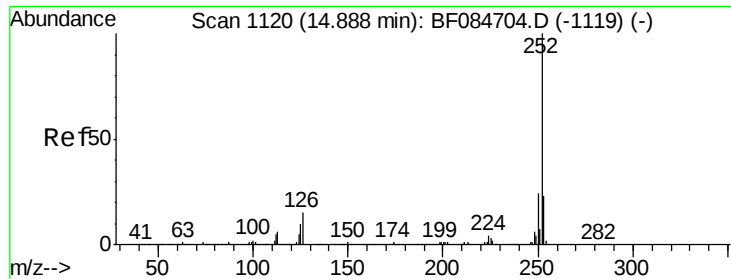
Delta R.T. -0.05 min

Lab File: BF084932.D

Acq: 8 Feb 2016 16:55

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		244473		
253	23.1		17.3	25.9	
125	11.6		6.5	9.7#	





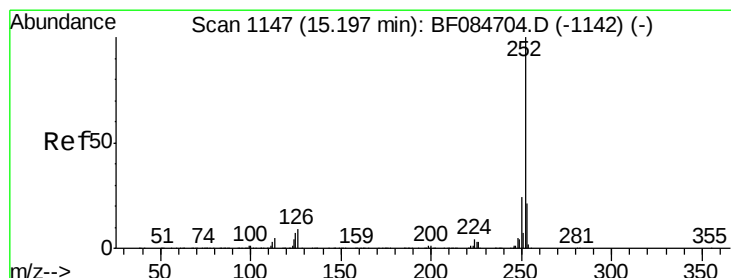
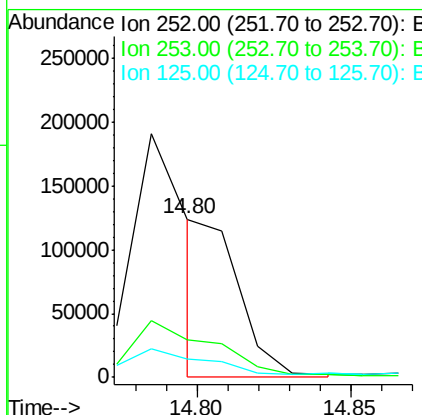
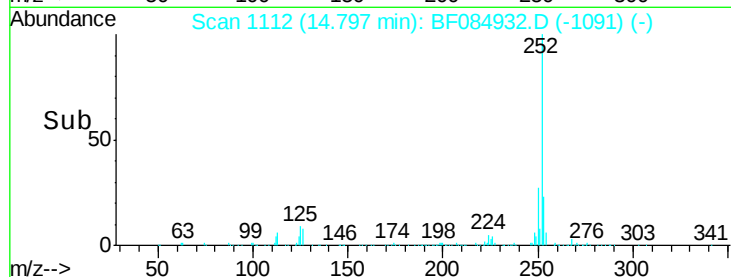
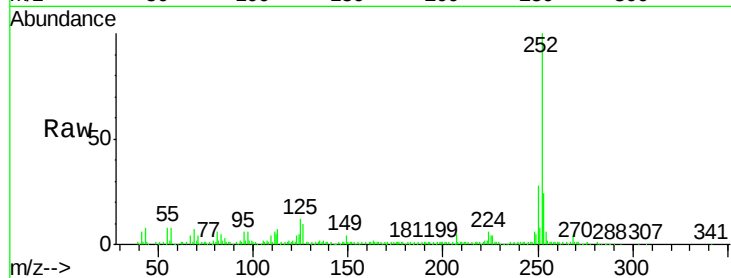
#88
Benzo(k)fluoranthene
Concen: 5.89 ng m
RT: 14.80 min Scan# 1112
Delta R.T. -0.06 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Instrument :
BNA_F
ClientSampleId :
SUP-B018(10-11)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.1	27.1
125	11.9	9.0	13.6

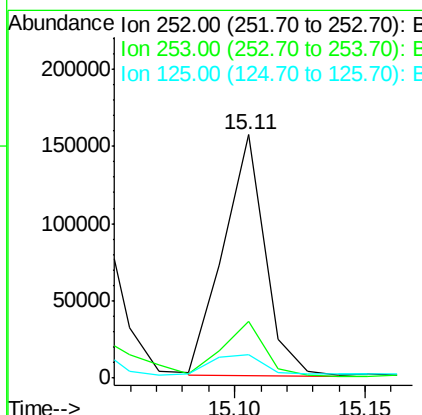
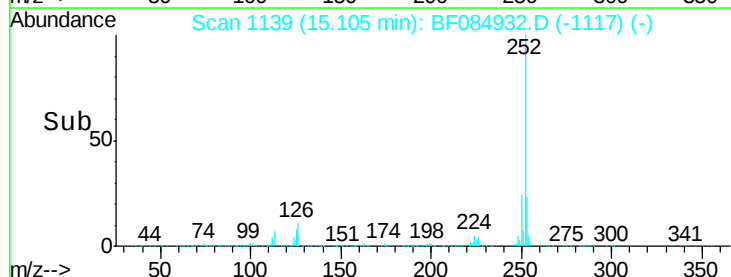
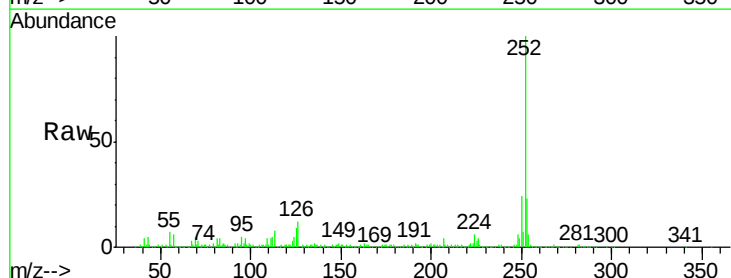
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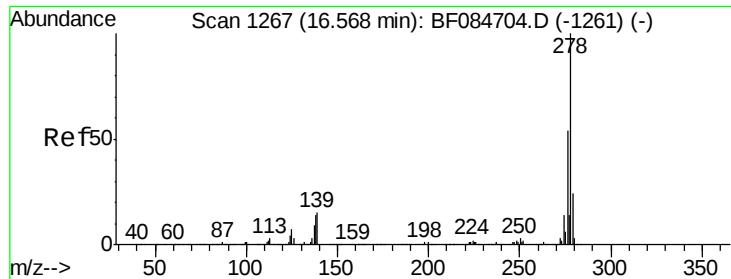
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#89
Benzo(a)pyrene
Concen: 10.04 ng
RT: 15.11 min Scan# 1139
Delta R.T. -0.05 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.3	25.9
125	9.4	7.0	10.4





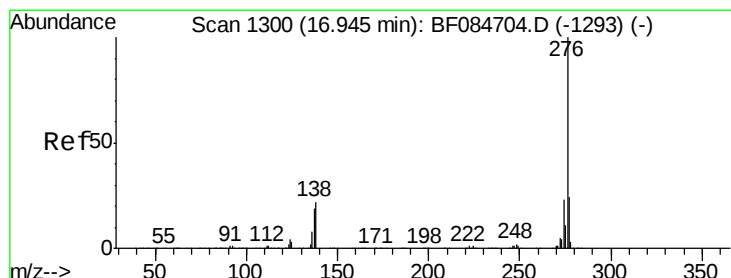
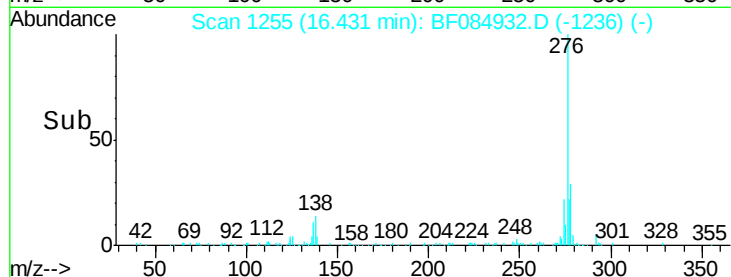
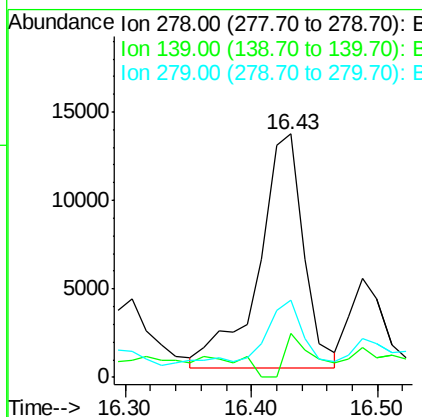
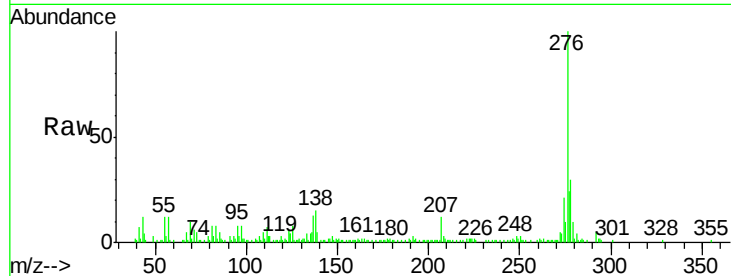
#90
Dibenzo(a,h)anthracene
Concen: 2.26 ng m
RT: 16.43 min Scan# 1255
Delta R.T. -0.08 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Instrument :
BNA_F
ClientSampleId :
SUP-B018(10-11)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.1	15.0	22.4
279	31.6	18.9	28.3

Manual Integrations
APPROVED

UMANGI
2/9/2016 3:28:51 PM



#91
Benzo(g,h,i)perylene
Concen: 7.35 ng
RT: 16.80 min Scan# 1287
Delta R.T. -0.09 min
Lab File: BF084932.D
Acq: 8 Feb 2016 16:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.8	28.2
138	22.4	17.8	26.6

