

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032817\
 Data File : BF094015.D
 Acq On : 29 Mar 2017 1:39
 Operator : SJ/MA
 Sample : I2414-03
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-S12-BASE

Manual Integrations
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 3/29/2017 1:57:08 PM

Quant Time: Mar 29 13:08:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.93	152	172546	20.00	ng	-0.02
21) Naphthalene-d8	7.43	136	708985	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	322742	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	528029	20.00	ng	-0.03
75) Chrysene-d12	14.64	240	345037	20.00	ng	-0.04
86) Perylene-d12	16.28	264	285431	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	980797	96.01	ng	-0.01
7) Phenol-d6	5.53	99	1281206	101.38	ng	-0.02
23) Nitrobenzene-d5	6.57	82	838660	67.51	ng	-0.03
41) 2,4,6-Tribromophenol	10.55	330	251056	98.44	ng	-0.03
44) 2-Fluorobiphenyl	8.76	172	1442189	68.16	ng	-0.02
78) Terphenyl-d14	13.37	244	976504	63.44	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	7.45	128	224603	6.59	ng	99
37) 2-Methylnaphthalene	8.30	142	91099	4.01	ng	97
48) Acenaphthylene	9.39	152	103129	3.05	ng	98
49) Dimethylphthalate	9.25	163	113610	4.95	ng	100
54) Dibenzofuran	9.82	168	114084	4.24	ng	98
70) Phenanthrene	11.42	178	393971	13.41	ng	98
71) Anthracene	11.49	178	104279	3.45	ng	97
74) Fluoranthene	12.89	202	579262	19.26	ng	98
77) Pyrene	13.16	202	477537	19.07	ng	98
80) Benzo(a)anthracene	14.63	228	232085m	11.53	ng	
82) Chrysene	14.67	228	234033m	12.53	ng	
85) Indeno(1,2,3-cd)pyrene	17.63	276	134943	8.34	ng	93
87) Benzo(b)fluoranthene	15.87	252	290997m	16.63	ng	
88) Benzo(k)fluoranthene	15.90	252	106942m	6.25	ng	
89) Benzo(a)pyrene	16.22	252	175577	10.90	ng	95
90) Dibenzo(a,h)anthracene	17.65	278	34813m	2.55	ng	
91) Benzo(g,h,i)perylene	18.03	276	117620	8.55	ng	97

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

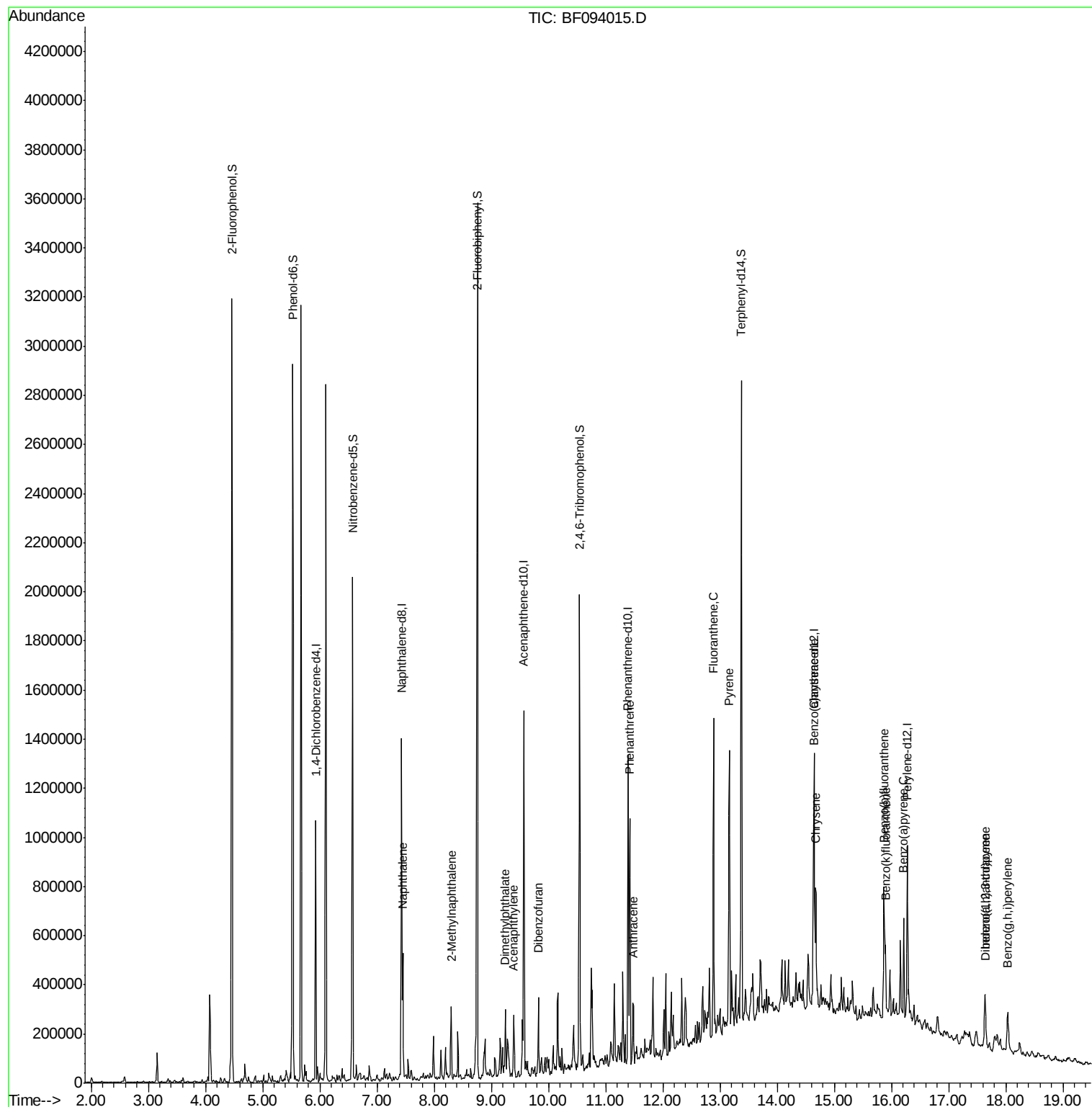
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032817\
Data File : BF094015.D
Acq On : 29 Mar 2017 1:39
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ALS Vial : 24 Sample Multiplier: 1

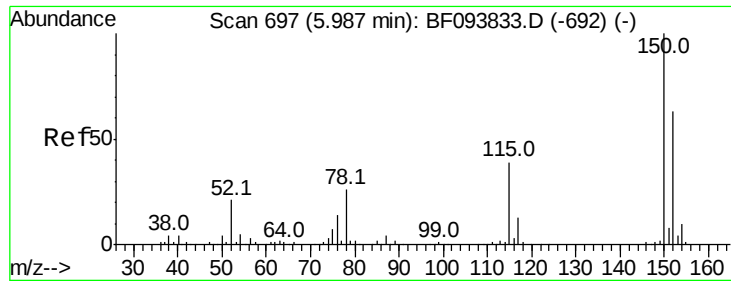
Instrument :
BNA_F
ClientSampleId :
E2-S12-BASE

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#1

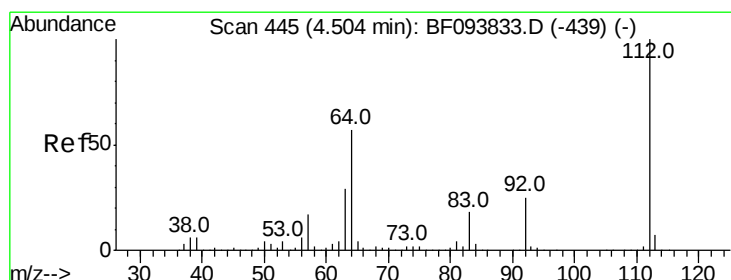
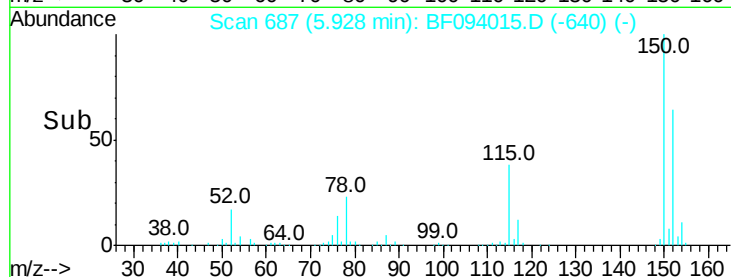
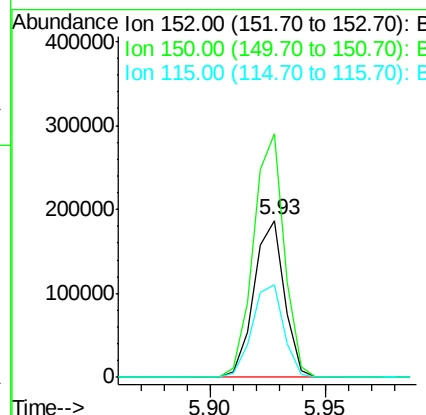
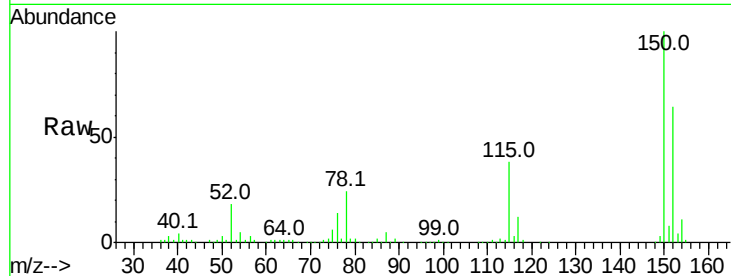
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.93 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampleId :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	126.2	189.2
115	59.1	52.2	78.2

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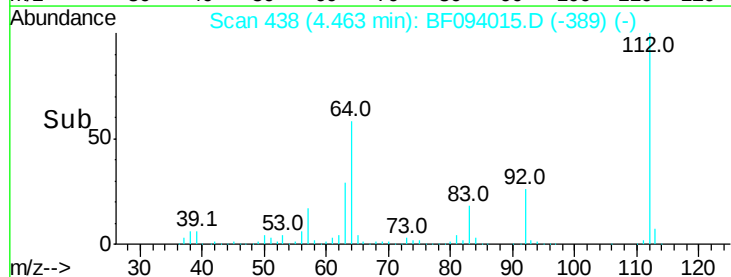
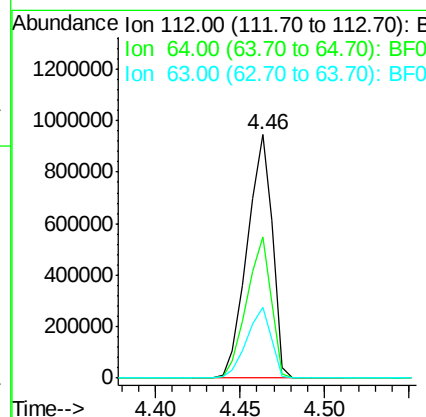
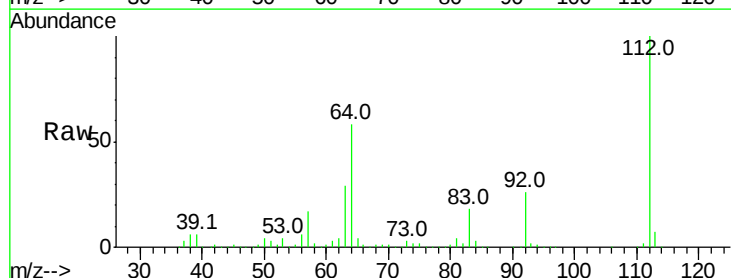
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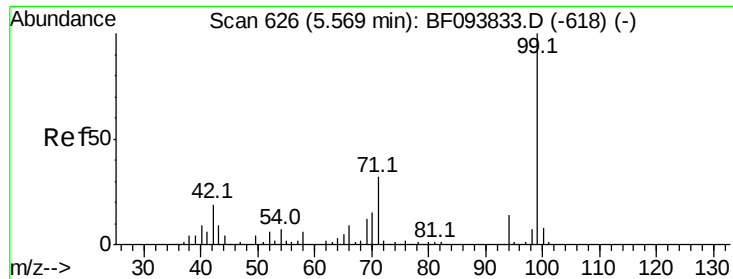


#5

2-Fluorophenol
Concen: 96.01 ng
RT: 4.46 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.0	46.0	69.0
63	28.9	23.4	35.0





#7

Phenol-d6

Concen: 101.38 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Instrument :

BNA_F

ClientSampleId :

E2-S12-BASE

Tot Ion: 99 Resp: 1281206

Ion Ratio Lower Upper

99 100

42 17.9 13.5 20.3

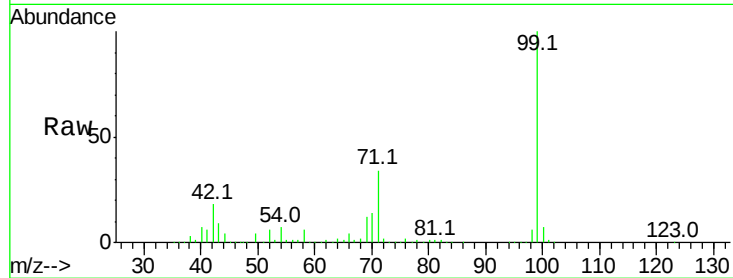
71 33.6 24.5 36.7

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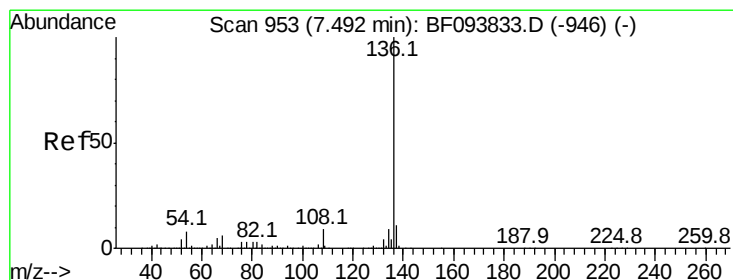
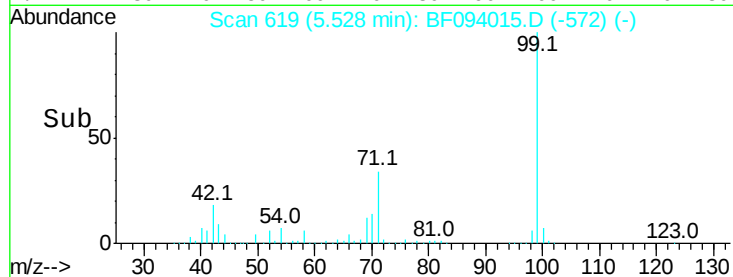
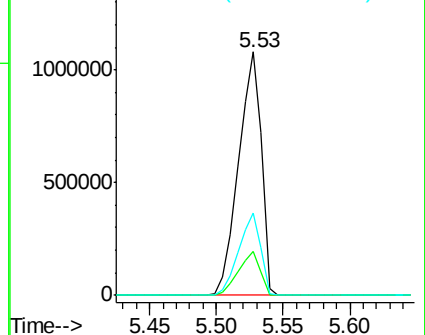
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Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Tgt Ion: 136 Resp: 708985

Ion Ratio Lower Upper

136 100

137 11.5 8.5 12.7

54 8.1 4.9 7.3#

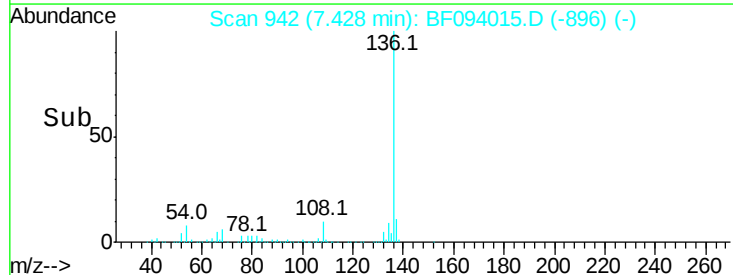
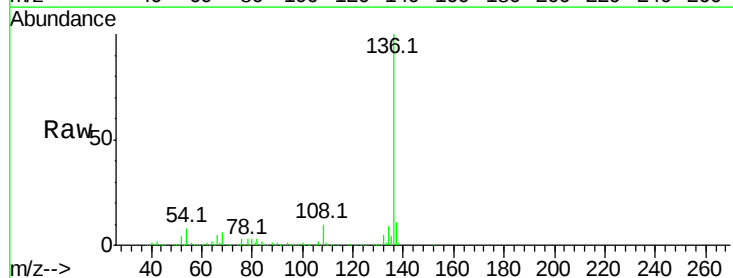
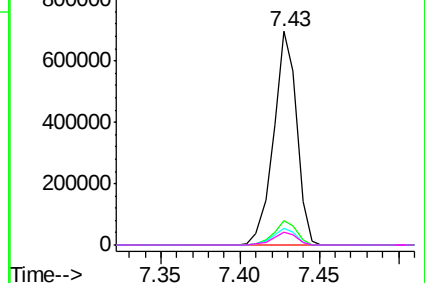
68 6.0 4.1 6.1

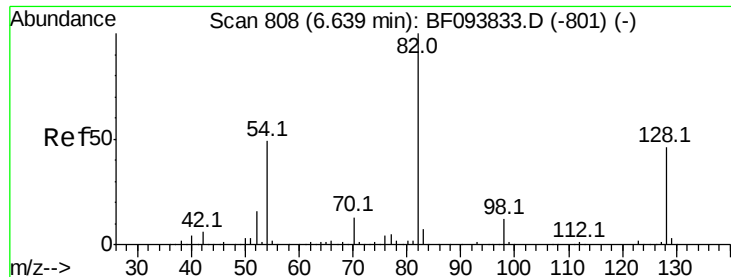
Abundance Ion 136.00 (135.70 to 136.70): E

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





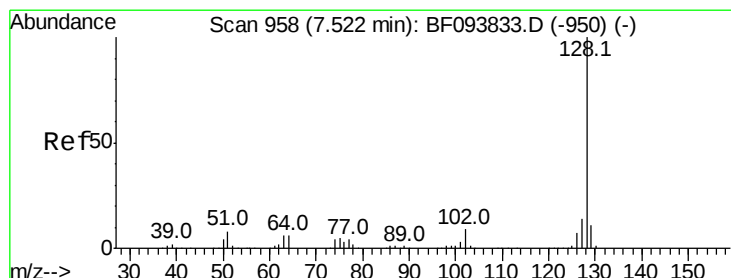
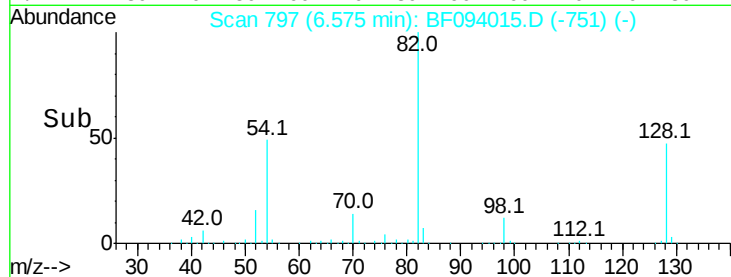
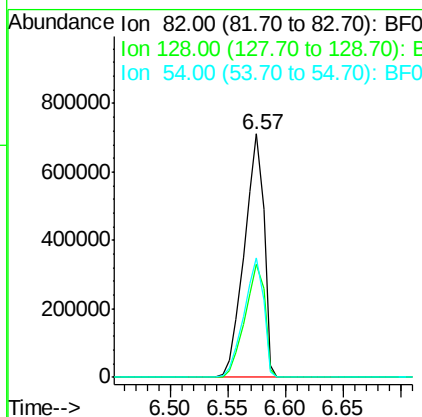
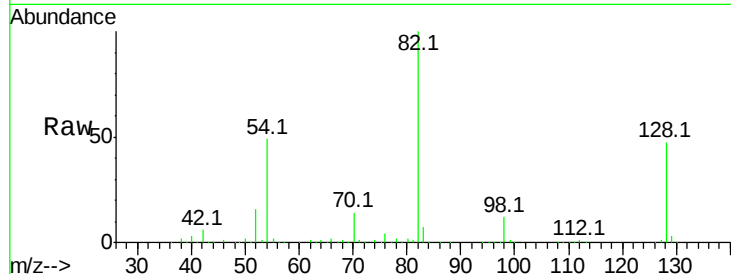
#23
Nitrobenzene-d5
Concen: 67.51 ng
RT: 6.57 min Scan# 797
Delta R.T. -0.03 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampleId :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.5	34.0	51.0
54	49.1	42.2	63.2

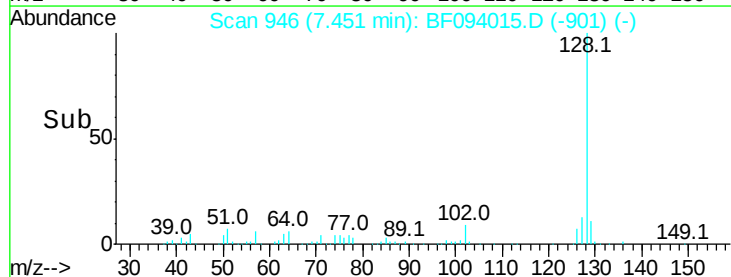
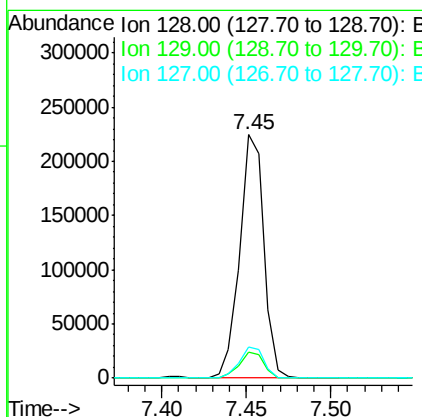
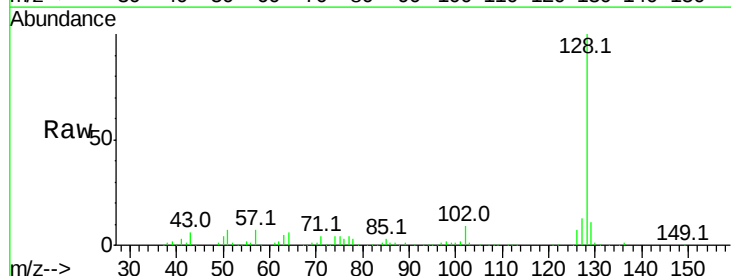
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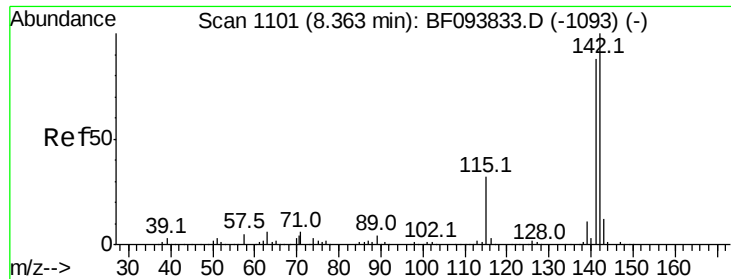
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#31
Naphthalene
Concen: 6.59 ng
RT: 7.45 min Scan# 946
Delta R.T. -0.04 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.6
127	12.9	10.8	16.2





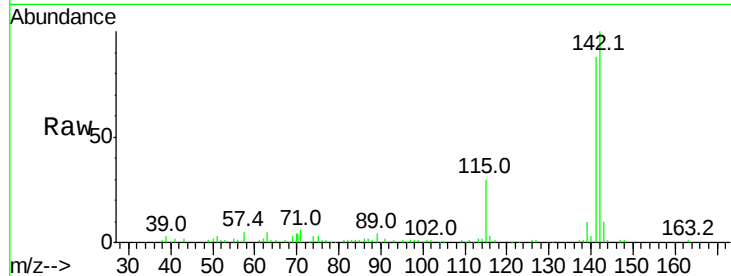
#37
2-Methylnaphthalene
Concen: 4.01 ng
RT: 8.30 min Scan# 1090
Delta R.T. -0.03 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampleId :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.3	106.9
115	30.3	27.1	40.7

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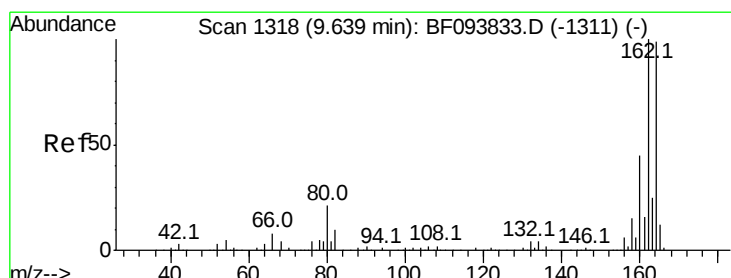
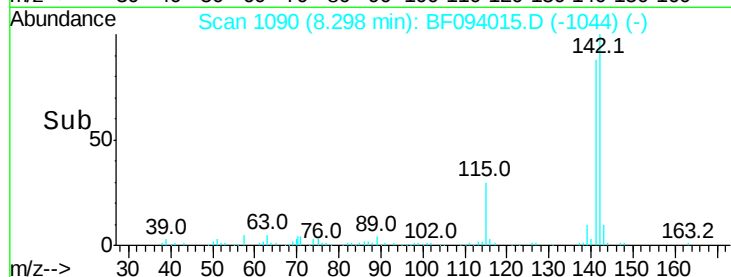
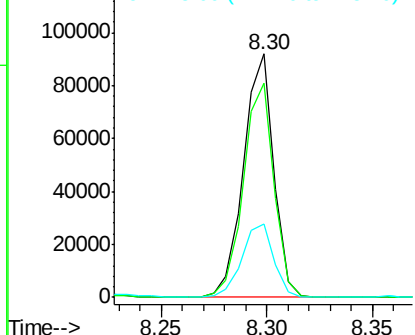


Abundance

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: 9.57 min Scan# 1306
Delta R.T. -0.03 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

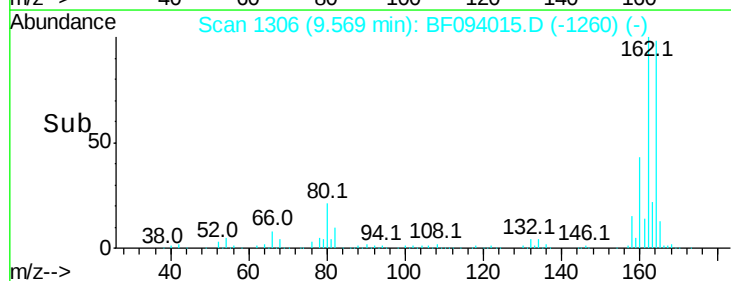
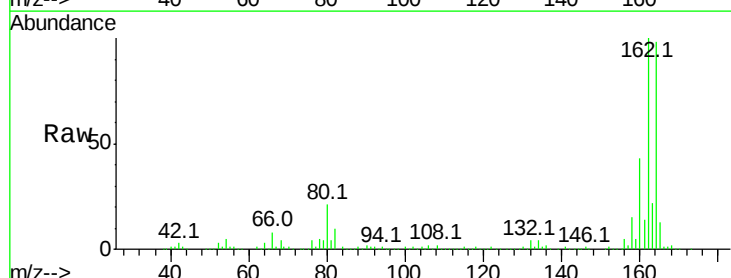
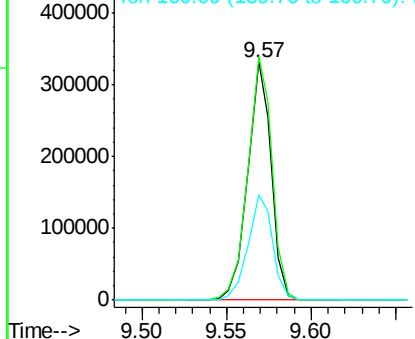
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.6	123.8
160	44.2	36.2	54.2

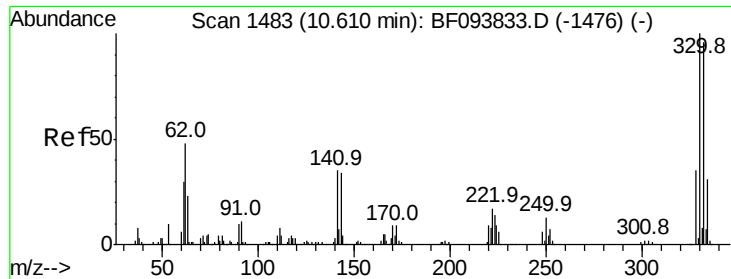
Abundance

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





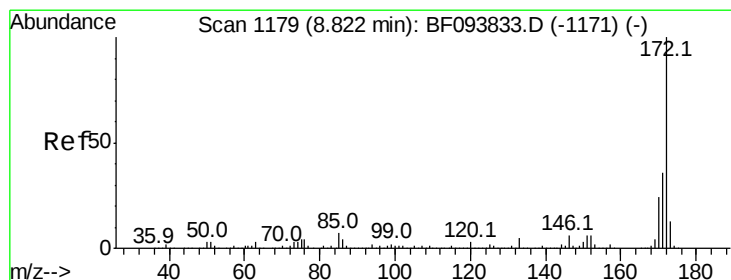
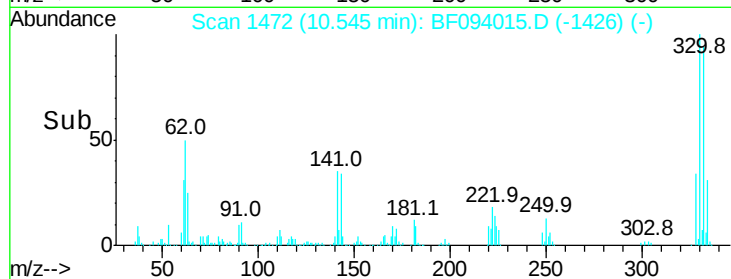
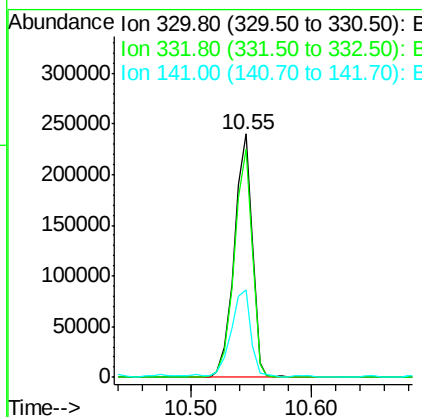
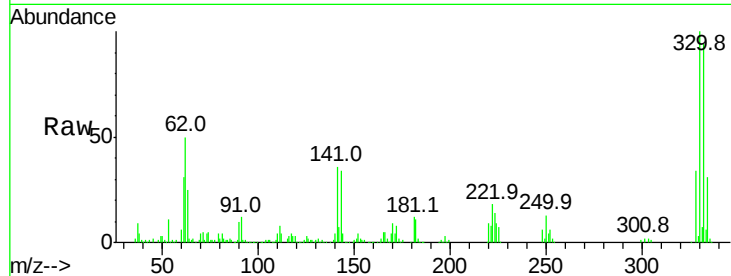
#41
 2,4,6-Tribromophenol
 Concen: 98.44 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094015.D
 Acq: 29 Mar 2017 1:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-S12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
330	100	251056		
332	93.8	76.6	115.0	
141	38.3	31.4	47.2	

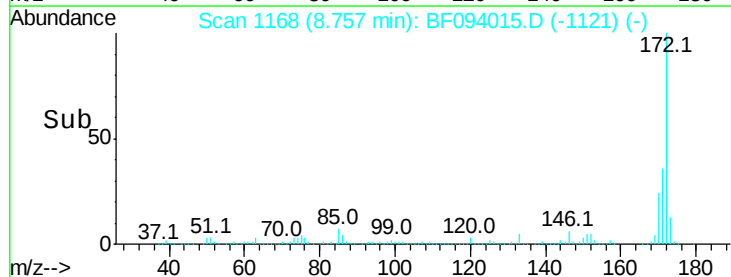
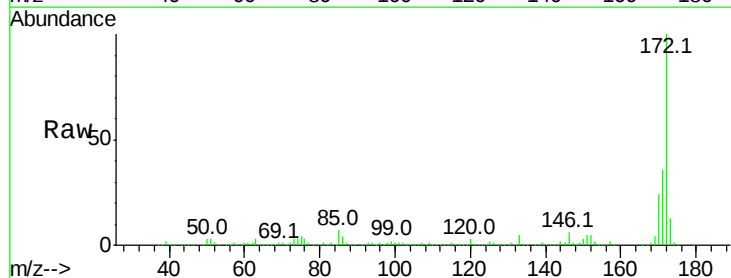
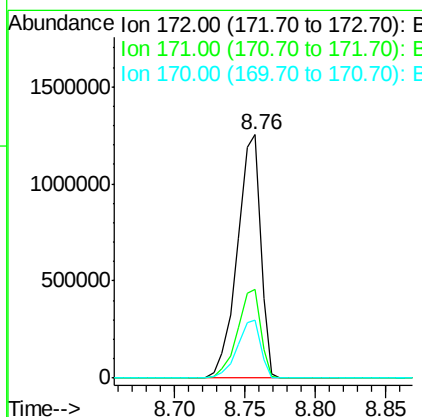
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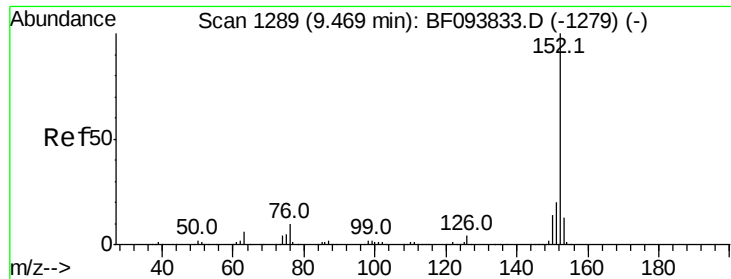
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#44
 2-Fluorobiphenyl
 Concen: 68.16 ng
 RT: 8.76 min Scan# 1168
 Delta R.T. -0.02 min
 Lab File: BF094015.D
 Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1442189		
171	36.4	29.6	44.4	
170	23.9	19.8	29.8	





#48

Acenaphthylene

Concen: 3.05 ng

RT: 9.39 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Instrument :

BNA_F

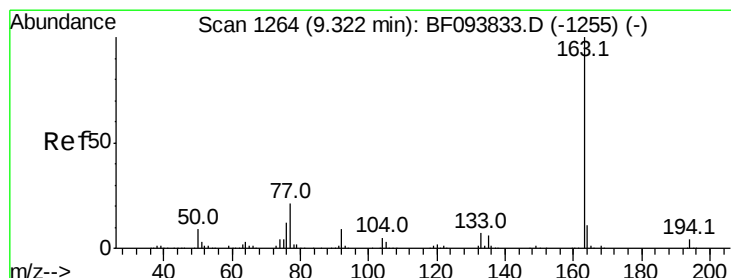
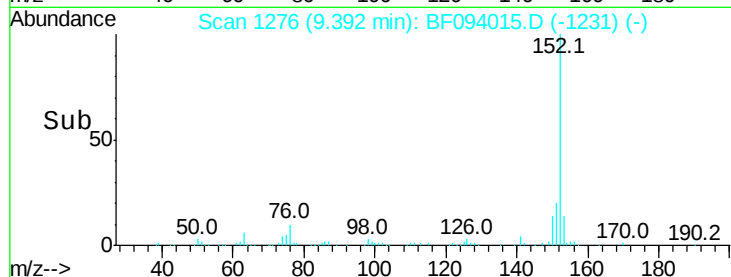
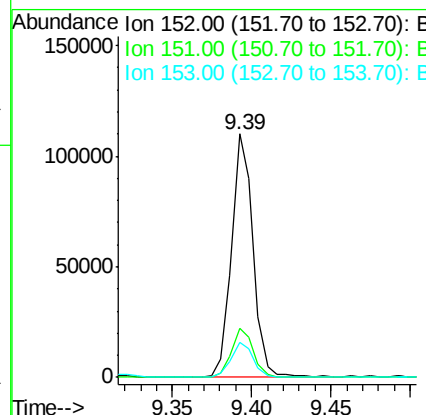
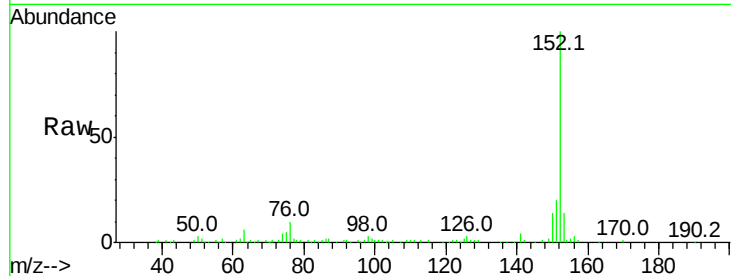
ClientSampleId :

E2-S12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
152	100	103129		
151	19.9		16.8	25.2
153	14.3		10.8	16.2

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#49

Dimethylphthalate

Concen: 4.95 ng

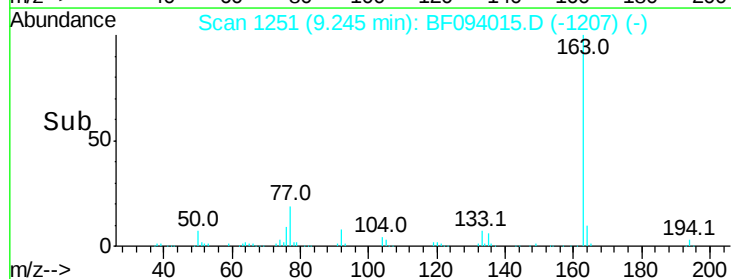
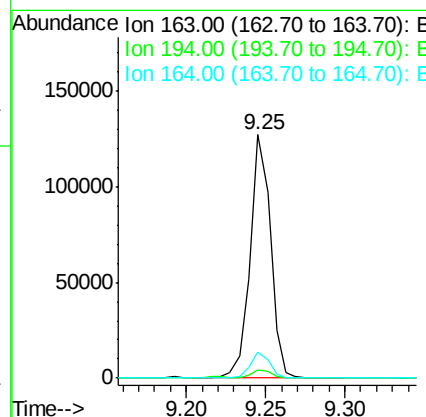
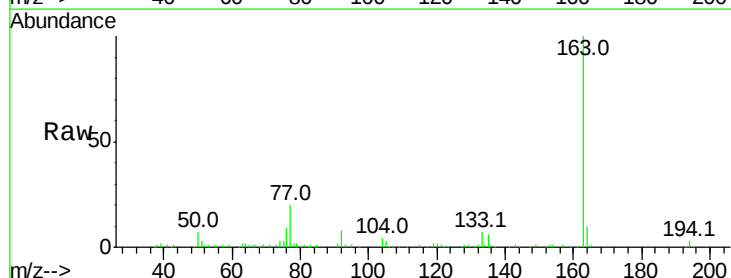
RT: 9.25 min Scan# 1251

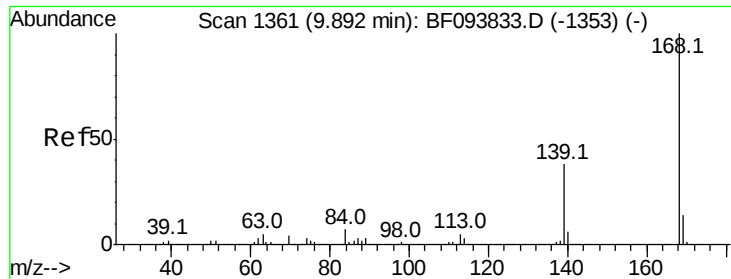
Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	113610		
194	3.2		2.6	4.0
164	10.5		8.4	12.6





#54

Dibenzofuran

Concen: 4.24 ng

RT: 9.82 min Scan# 1349

Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Instrument :

BNA_F

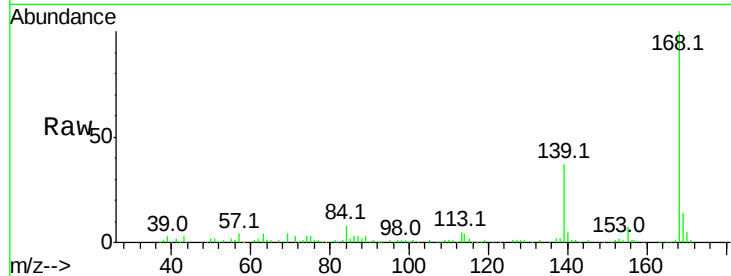
ClientSampleId :

E2-S12-BASE

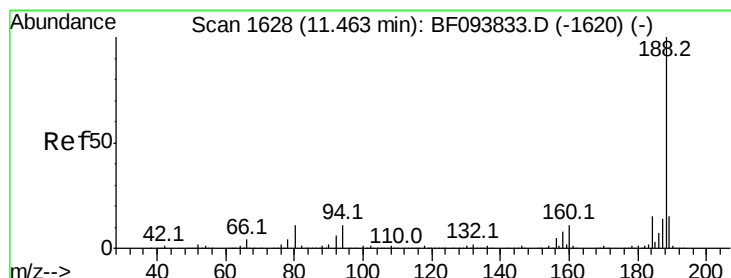
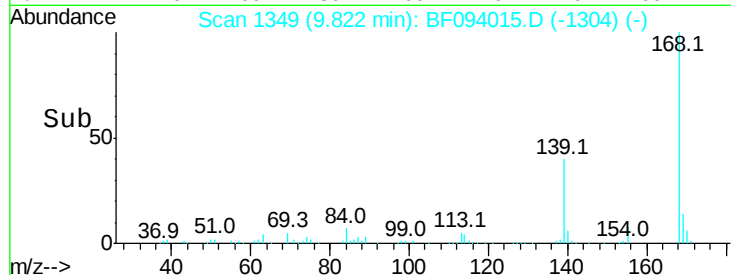
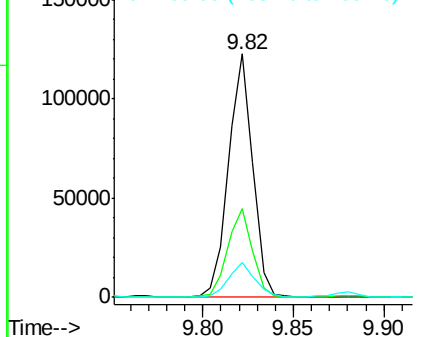
Tot Ion:168	Resp:	114084
Ion Ratio	Lower	Upper
168 100		
139 36.5	30.6	45.8
169 14.2	10.8	16.2

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



#63

Phenanthrene-d10

Concen: 20.00 ng

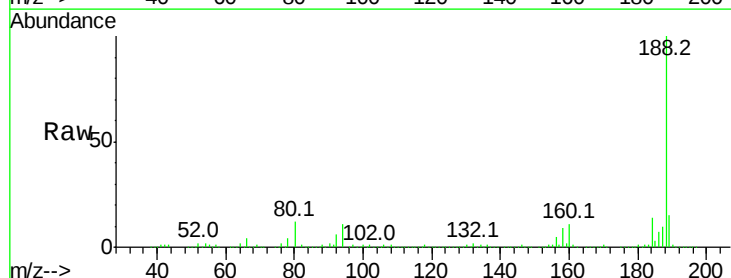
RT: 11.39 min Scan# 1616

Delta R.T. -0.03 min

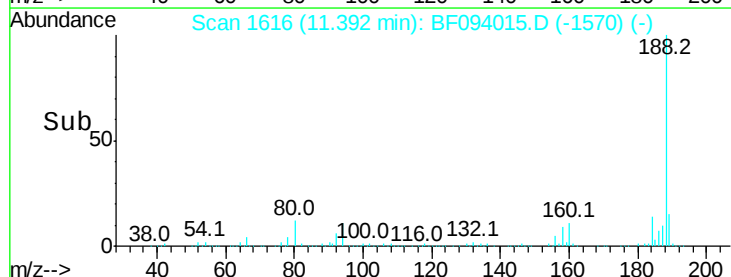
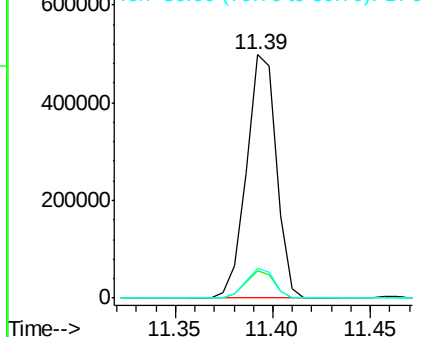
Lab File: BF094015.D

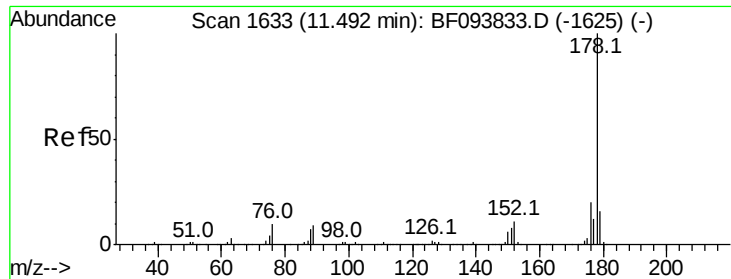
Acq: 29 Mar 2017 1:39

Tgt Ion:188	Resp:	528029
Ion Ratio	Lower	Upper
188 100		
94 11.2	9.4	14.2
80 12.2	10.2	15.2



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 13.41 ng

RT: 11.42 min Scan# 1621

Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Instrument :

BNA_F

ClientSampleId :

E2-S12-BASE

Tot Ion:178 Resp: 393971

Ion Ratio Lower Upper

178 100

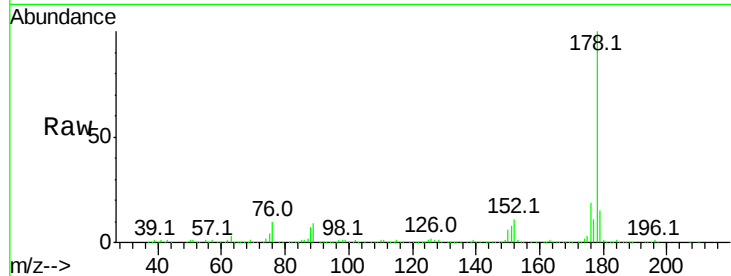
176 19.2 16.2 24.4

179 15.2 12.6 19.0

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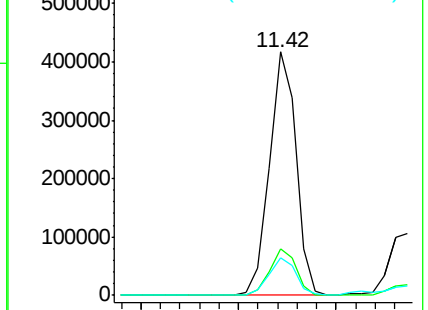
3/29/2017 1:57:08 PM



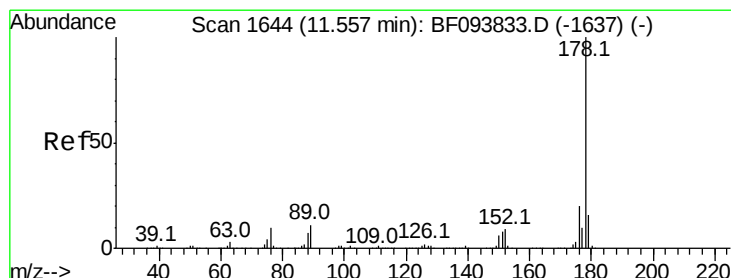
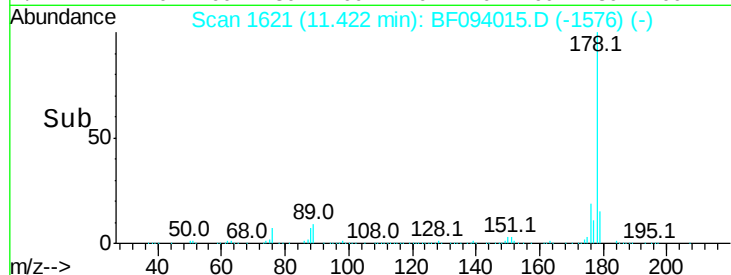
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 3.45 ng

RT: 11.49 min Scan# 1632

Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

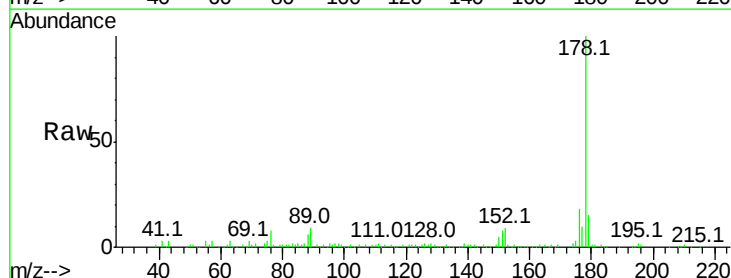
Tgt Ion:178 Resp: 104279

Ion Ratio Lower Upper

178 100

176 17.7 15.8 23.8

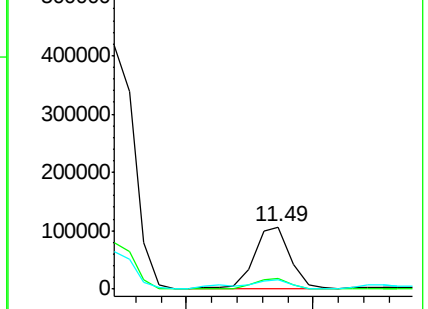
179 15.5 12.7 19.1



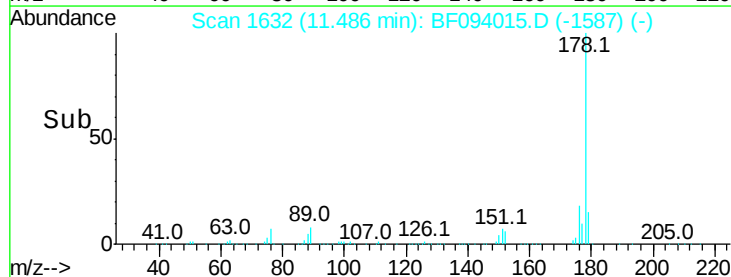
Abundance Ion 178.00 (177.70 to 178.70): E

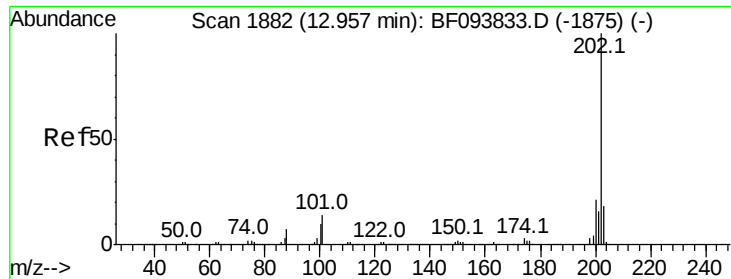
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#74

Fluoranthene

Concen: 19.26 ng

RT: 12.89 min Scan# 1870

Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Instrument :

BNA_F

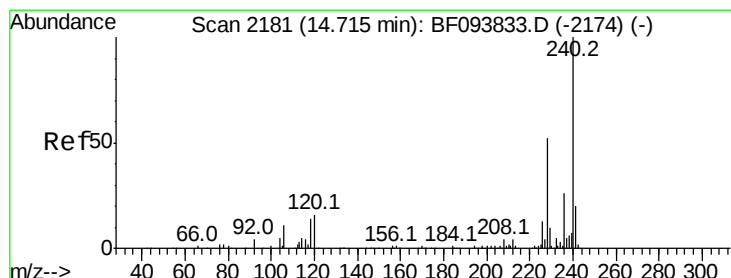
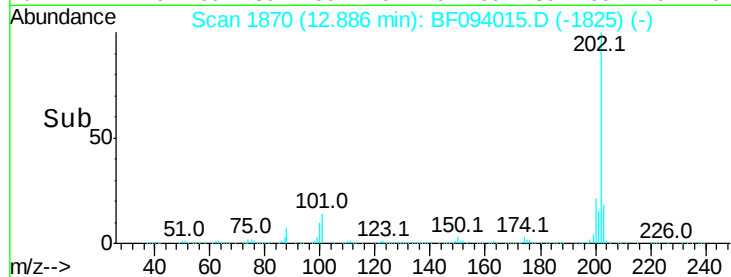
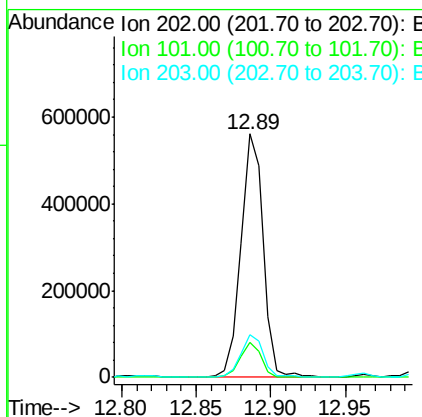
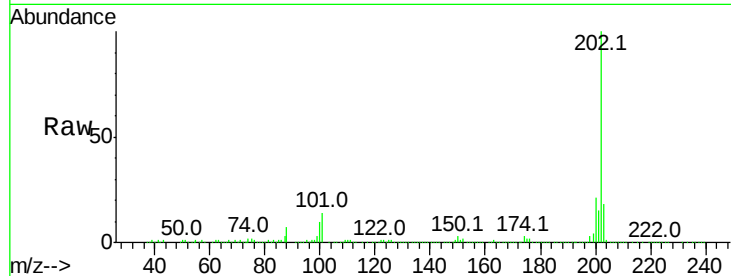
ClientSampleId :

E2-S12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
202	100	579262		
101	14.2	0.0	33.2	
203	17.7	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.00 ng

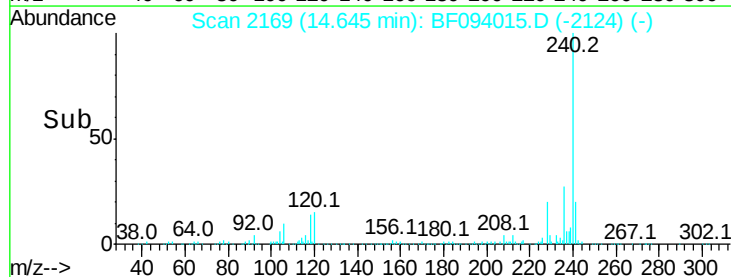
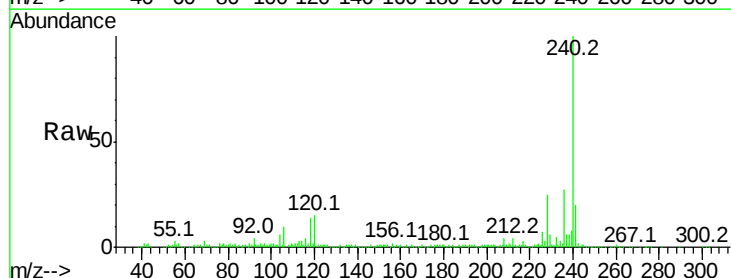
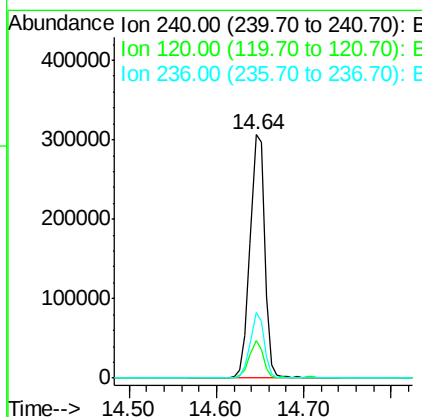
RT: 14.64 min Scan# 2169

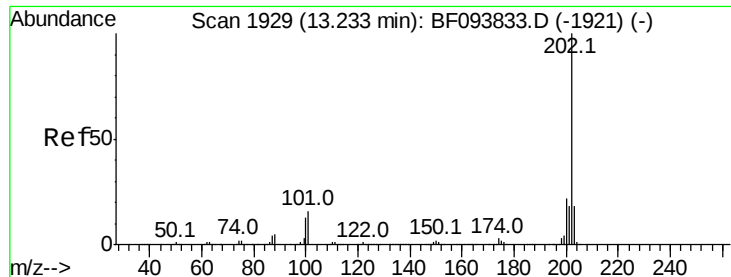
Delta R.T. -0.04 min

Lab File: BF094015.D

Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	345037		
120	15.3	5.8	8.8#	
236	26.9	20.5	30.7	





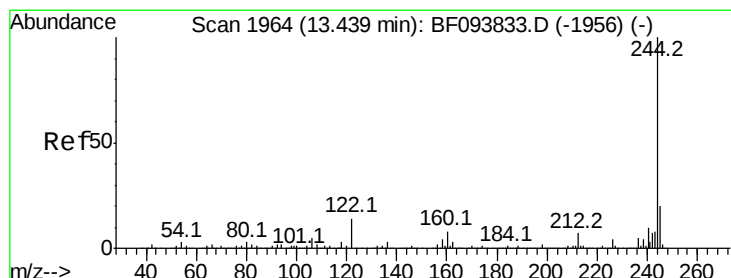
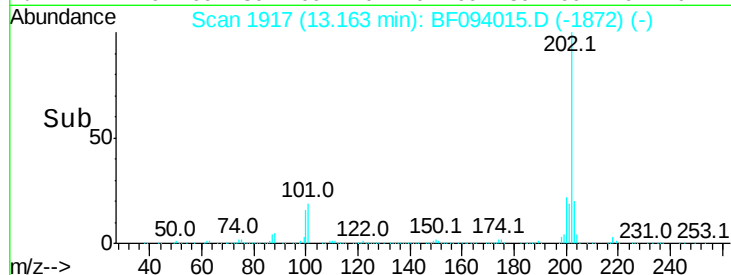
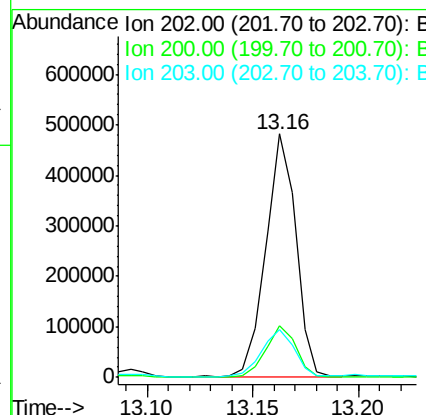
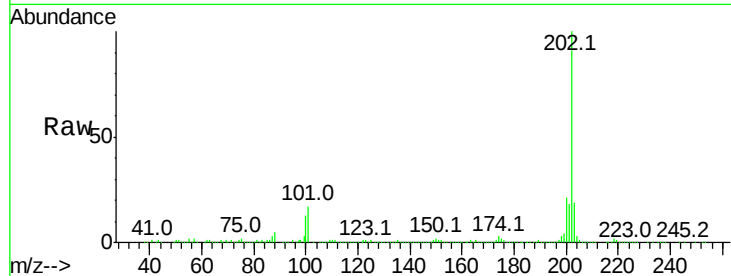
#77
Pvrene
Concen: 19.07 ng
RT: 13.16 min Scan# 1917
Delta R.T. -0.04 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampleId :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.6	26.4
203	19.5	14.4	21.6

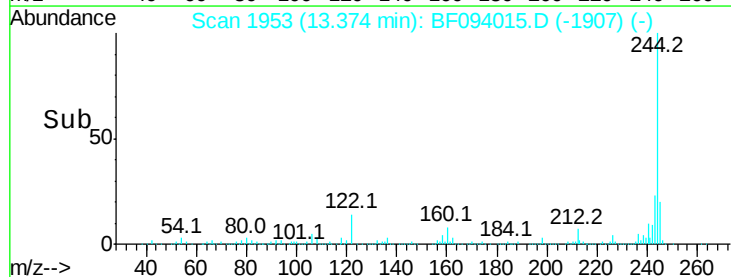
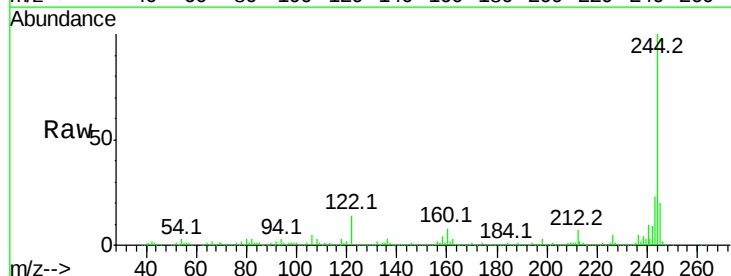
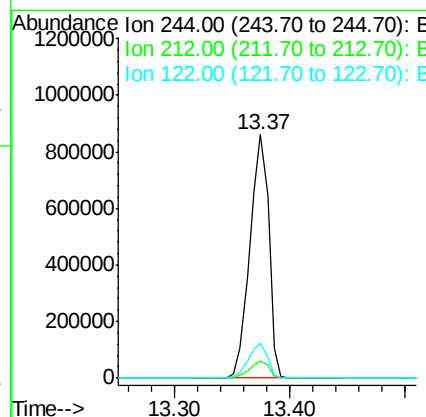
Manual Integrations
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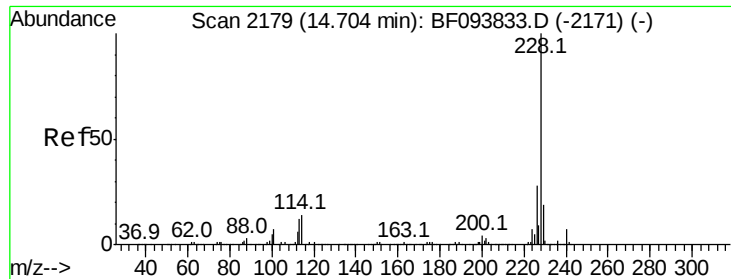
mohammad
3/29/2017 1:57:08 PM



#78
Terphenyl-d14
Concen: 63.44 ng
RT: 13.37 min Scan# 1953
Delta R.T. -0.03 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	14.4	10.3	15.5





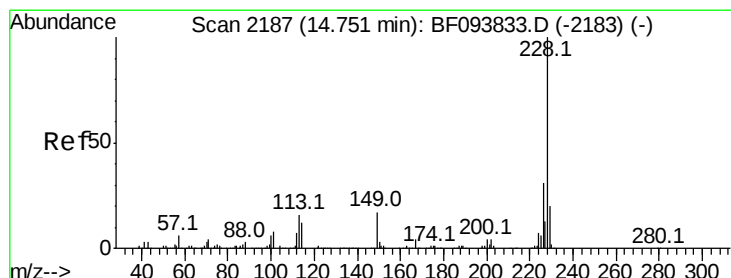
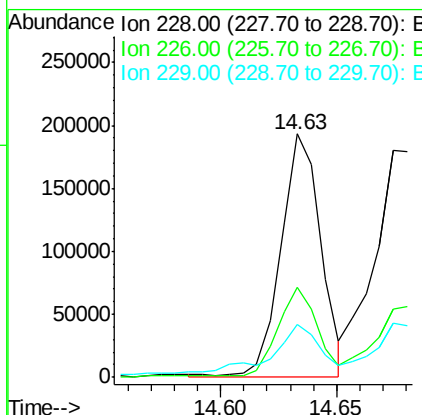
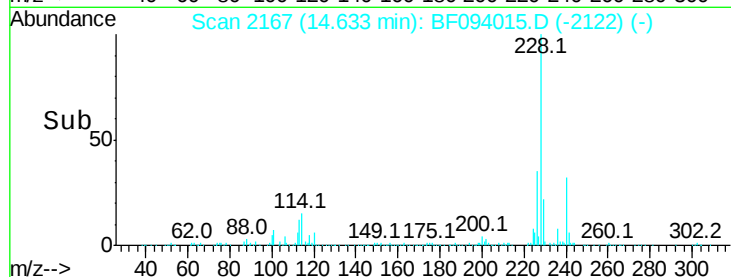
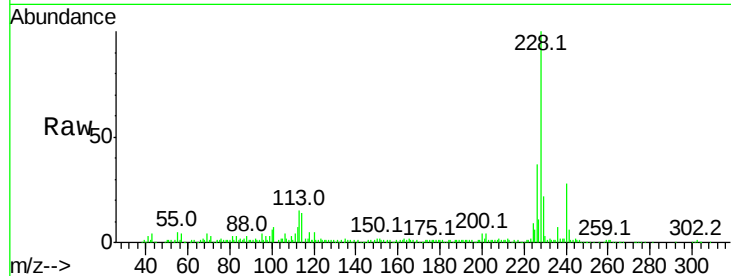
#80
Benzo(a)anthracene
Concen: 11.53 ng m
RT: 14.63 min Scan# 2167
Delta R.T. -0.04 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampled :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
228	100		
226	36.8	22.6	33.8#
229	21.9	16.3	24.5

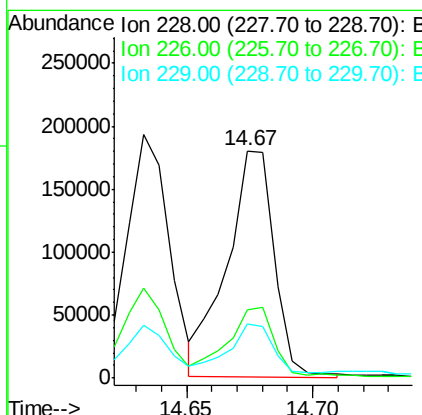
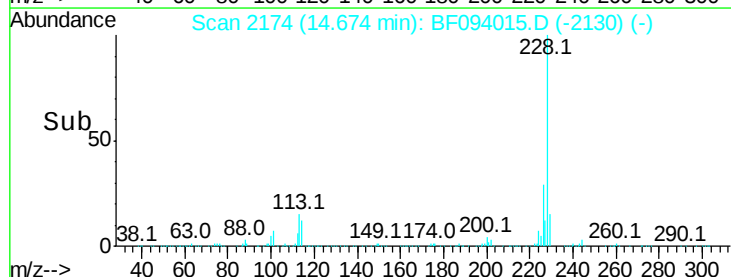
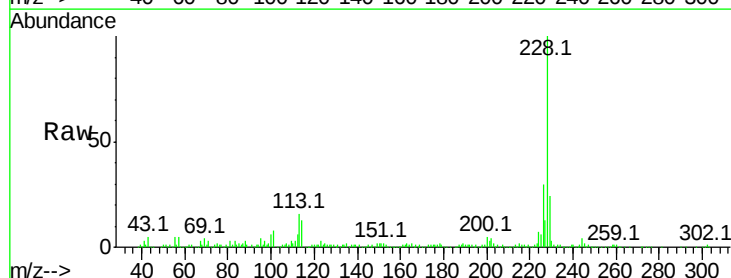
Manual Integrations
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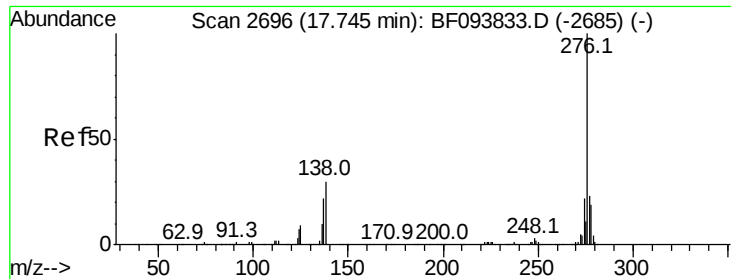
mohammad
3/29/2017 1:57:08 PM



#82
Chrysene
Concen: 12.53 ng m
RT: 14.67 min Scan# 2174
Delta R.T. -0.04 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.9	37.3
229	23.8	15.8	23.6#





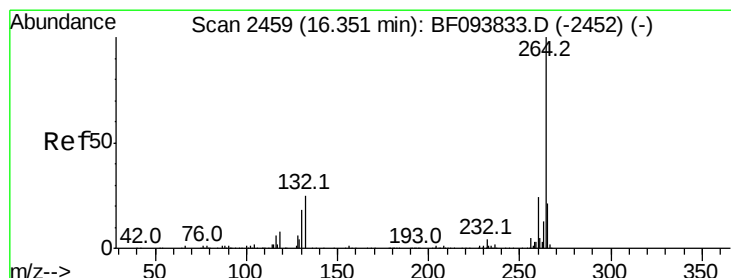
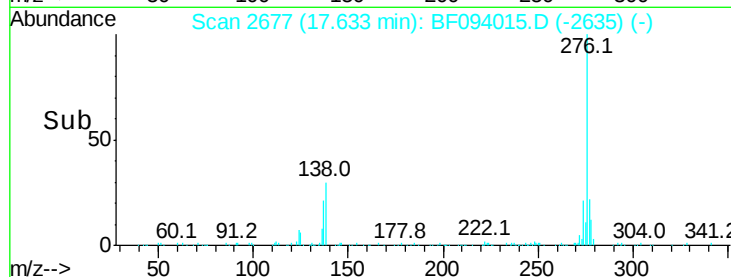
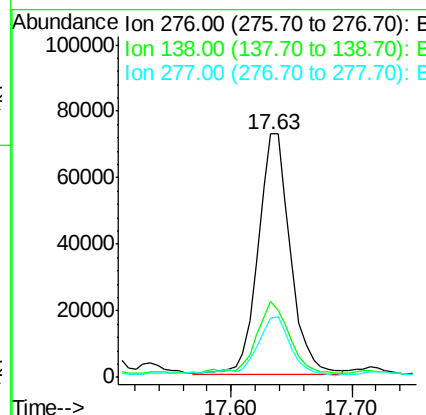
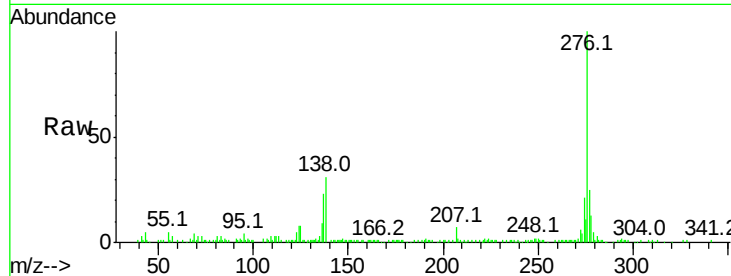
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.34 ng
RT: 17.63 min Scan# 2677
Delta R.T. -0.05 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampled :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.9	27.8	41.6
277	27.6	20.2	30.4

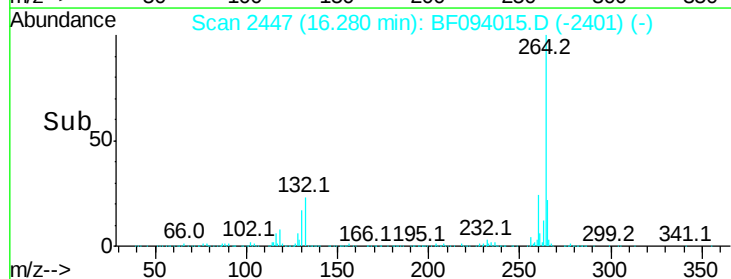
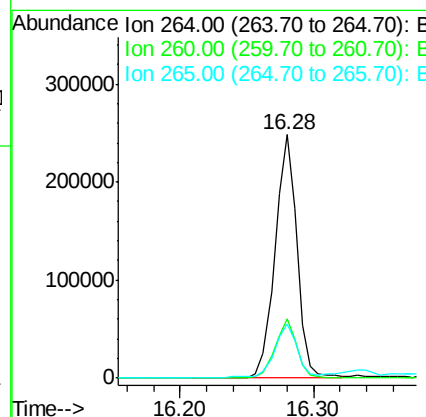
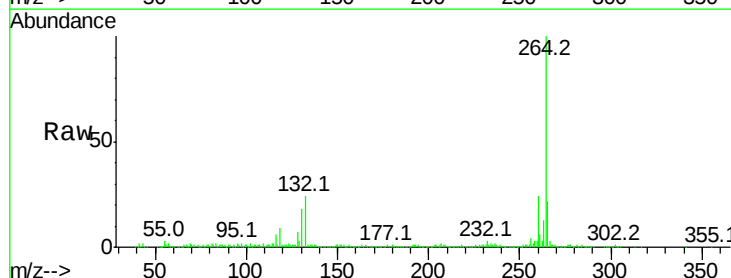
Manual Integrations
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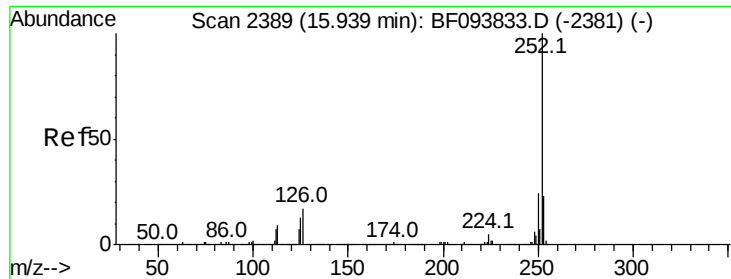
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 16.28 min Scan# 2447
Delta R.T. -0.03 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.3	17.2	25.8





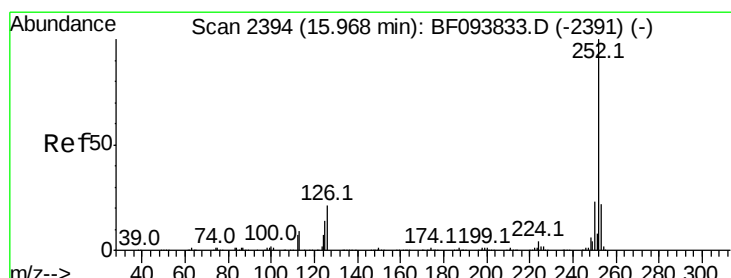
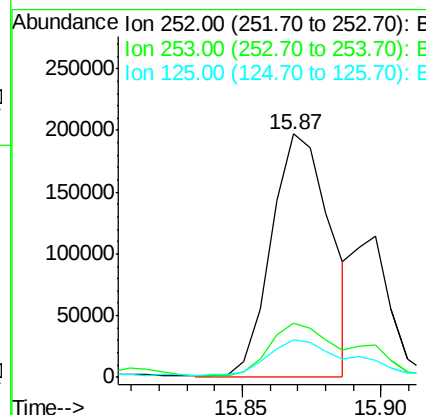
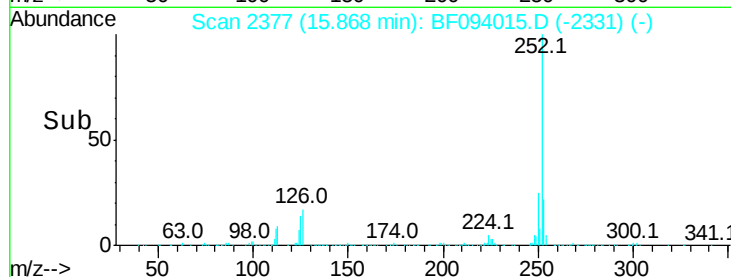
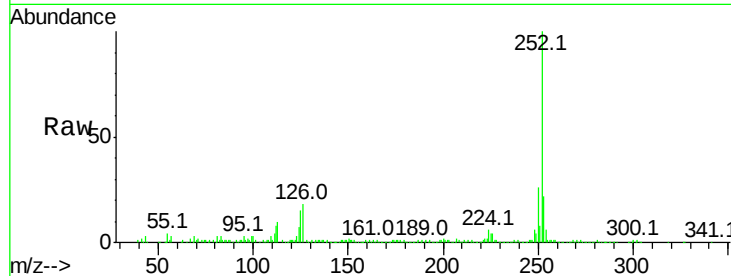
#87
Benzo(b)fluoranthene
Concen: 16.63 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.03 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampled :
E2-S12-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	15.3	9.8	14.8

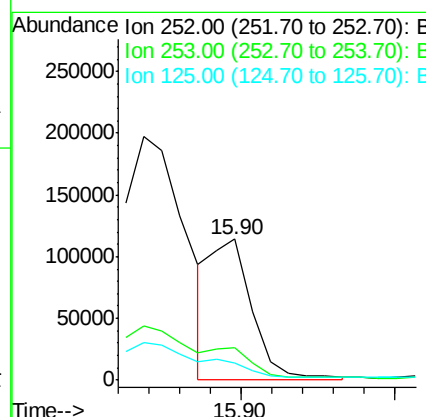
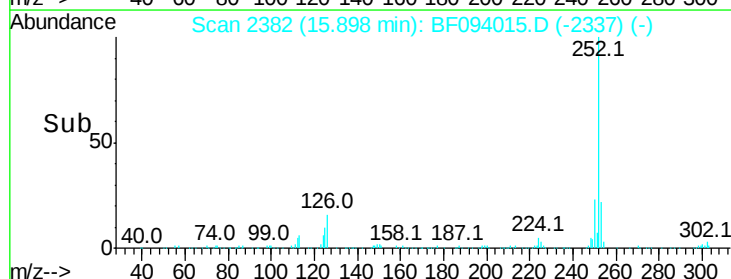
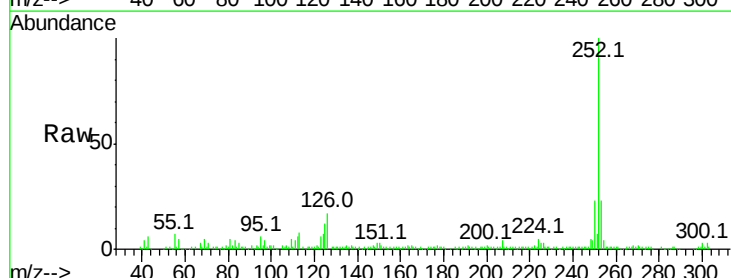
Manual Integrations
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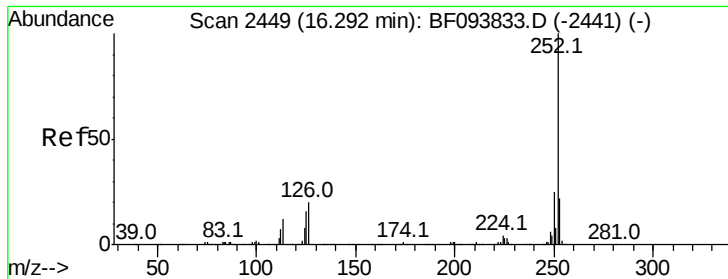
mohammad
3/29/2017 1:57:08 PM



#88
Benzo(k)fluoranthene
Concen: 6.25 ng m
RT: 15.90 min Scan# 2382
Delta R.T. -0.04 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.4	27.6
125	12.3	13.1	19.7





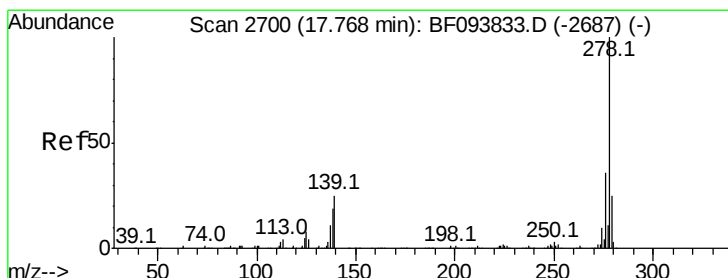
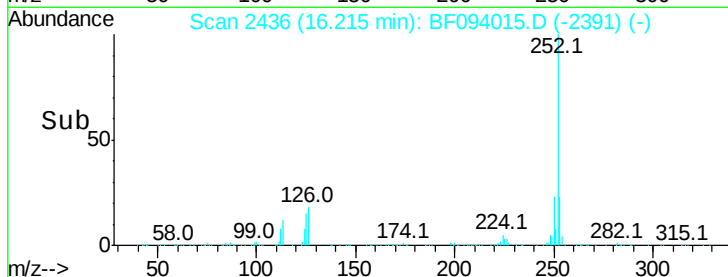
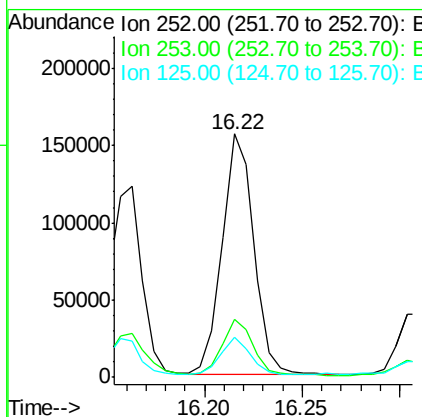
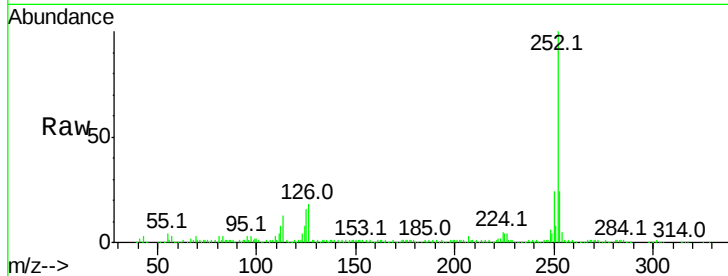
#89
Benzo(a)pyrene
Concen: 10.90 ng
RT: 16.22 min Scan# 2436
Delta R.T. -0.04 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Instrument :
BNA_F
ClientSampleId :
E2-S12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
252	100	175577		
253	23.9		17.5	26.3
125	16.3		11.0	16.4

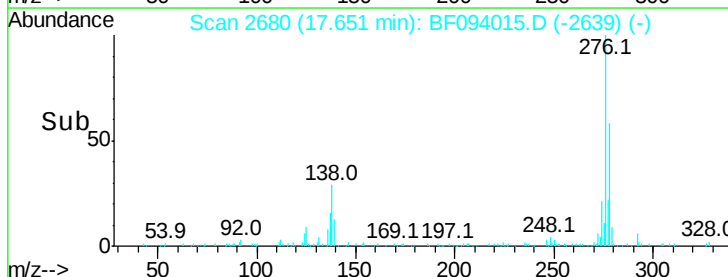
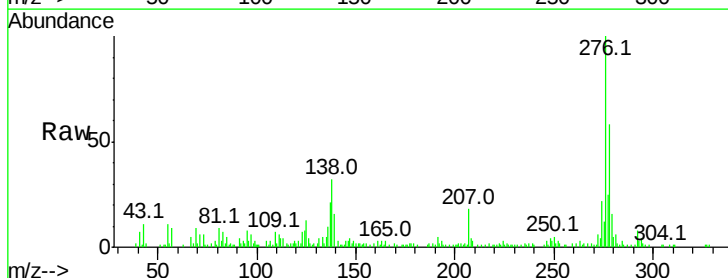
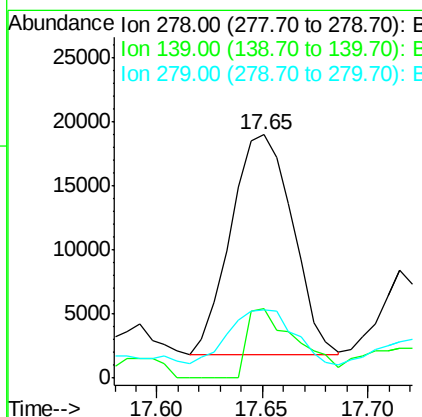
Manual Integrations
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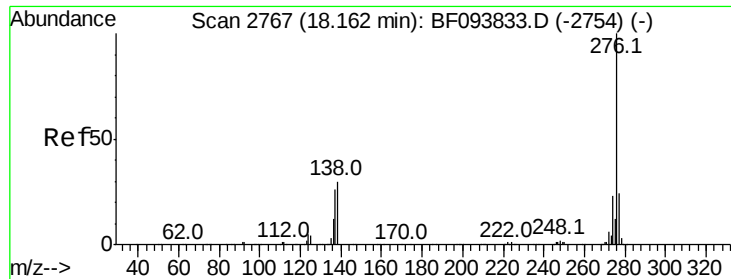
mohammad
3/29/2017 1:57:08 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.55 ng m
RT: 17.65 min Scan# 2680
Delta R.T. -0.06 min
Lab File: BF094015.D
Acq: 29 Mar 2017 1:39

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	34813		
139	28.4		16.6	24.8#
279	28.1		19.3	28.9





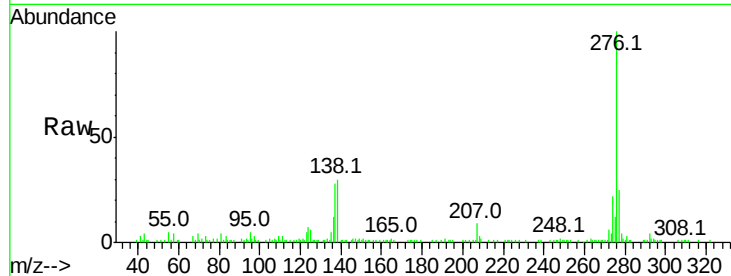
#91
 Benzo(a,h,i)perylene
 Concen: 8.55 ng
 RT: 18.03 min Scan# 2745
 Delta R.T. -0.06 min
 Lab File: BF094015.D
 Acq: 29 Mar 2017 1:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-S12-BASE

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.6	18.6	28.0
138	29.9	25.4	38.0

Manual Integrations
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 3/29/2017 1:57:08 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

