

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\
 Data File : BF111620.D
 Acq On : 20 Dec 2018 5:03
 Operator : JU/SJ
 Sample : J6465-04
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EB03_1.5-3.5

Manual Integrations
 APPROVED

Sohil
 12/20/2018 12:42:44 PM

Quant Time: Dec 20 08:05:47 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 19 17:39:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	196831	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	711160	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	327898	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	572372	20.00	ng	0.00
76) Chrysene-d12	14.06	240	473699	20.00	ng	0.00
87) Perylene-d12	15.53	264	375602	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	1023071	88.60	ng	0.00
7) Phenol-d6	6.52	99	1284813	87.43	ng	0.00
23) Nitrobenzene-d5	7.45	82	763971	62.53	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	323029	83.38	ng	0.00
45) 2-Fluorobiphenyl	9.25	172	1436496	63.86	ng	0.00
79) Terphenyl-d14	13.00	244	1404260	56.22	ng	0.00
Target Compounds						
10) Phenol	6.53	94	99899	6.025	ng	94
50) Dimethylphthalate	9.64	163	139561	5.820	ng	97
52) Acenaphthene	9.96	154	132537	6.711	ng	95
55) Dibenzofuran	10.13	168	106439	3.568	ng	95
58) Fluorene	10.47	166	172254	8.012	ng	100
71) Phenanthrene	11.45	178	2250449	74.138	ng	97
72) Anthracene	11.49	178	633790	20.801	ng	95
73) Carbazole	11.64	167	188597	6.376	ng	93
74) Di-n-butylphthalate	11.97	149	75772	2.285	ng	98
75) Fluoranthene	12.64	202	3251224	105.769	ng	96
78) Pyrene	12.86	202	2890980	86.423	ng	99
81) Benzo(a)anthracene	14.04	228	1692187	62.595	ng	98
83) Chrysene	14.09	228	1416428	53.309	ng	99
86) Indeno(1,2,3-cd)pyrene	17.02	276	678443	30.036	ng	# 84
88) Benzo(b)fluoranthene	15.10	252	1786626m	81.389	ng	
89) Benzo(k)fluoranthene	15.13	252	459684m	21.996	ng	
90) Benzo(a)pyrene	15.47	252	1139234m	57.124	ng	
91) Dibenzo(a,h)anthracene	17.02	278	166762	9.549	ng	# 91
92) Benzo(a,h,i)perylene	17.46	276	599872	35.177	ng	# 88

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

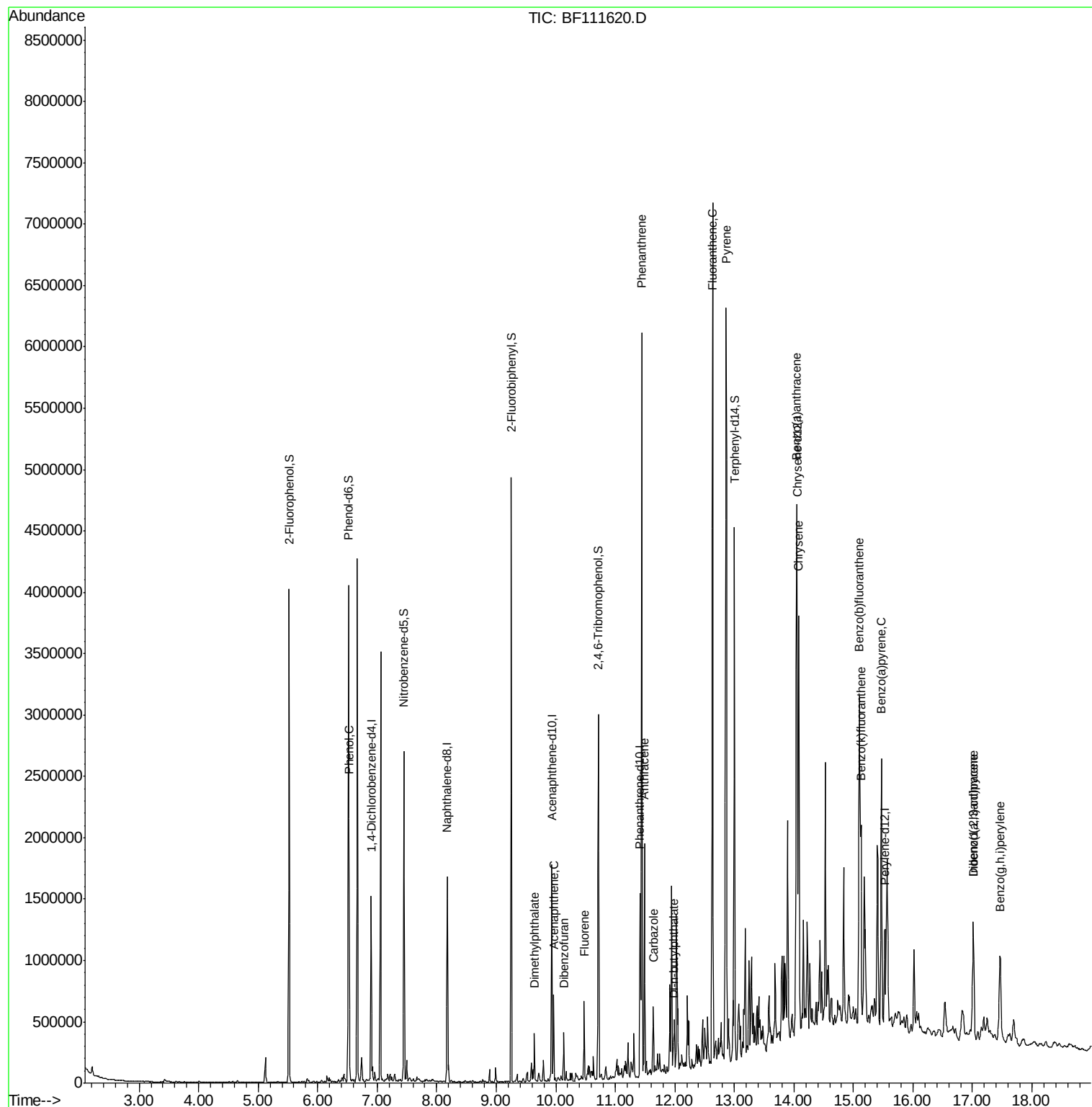
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121918\
Data File : BF111620.D
Acq On : 20 Dec 2018 5:03
Operator : JU/SJ
Sample : J6465-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

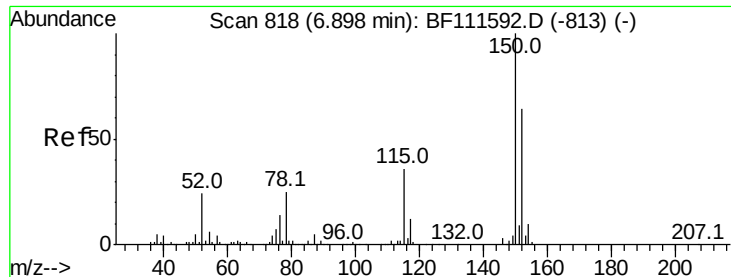
Instrument :
BNA_F
ClientSampled :
EB03_1.5-3.5

Manual Integrations
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#1

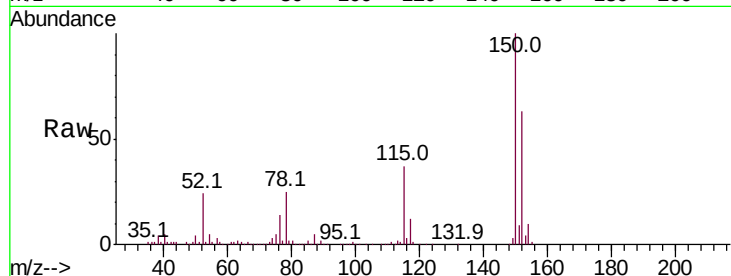
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.90 min Scan# 818
Delta R.T. -0.00 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	126.6	189.8
115	57.6	50.7	76.1

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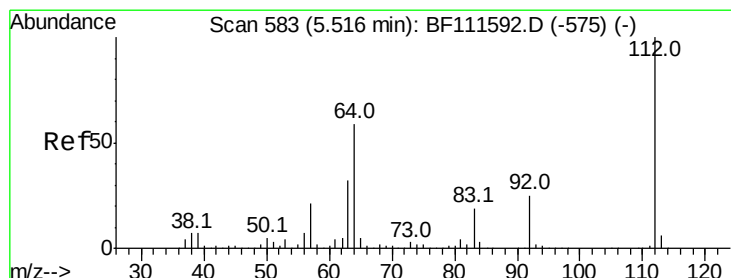
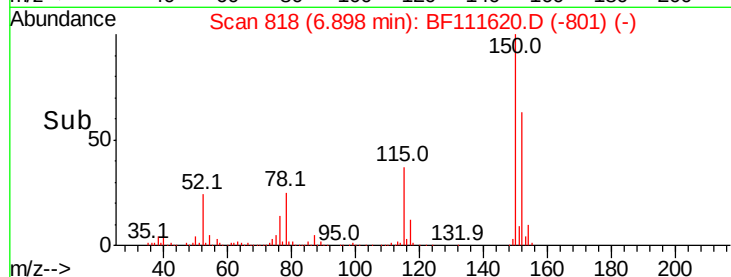
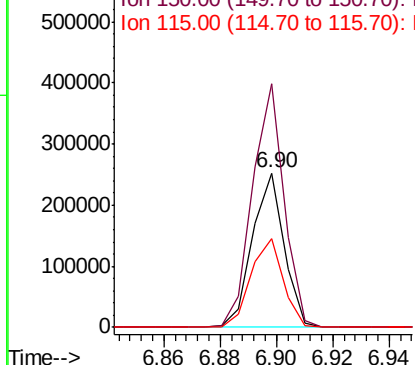


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

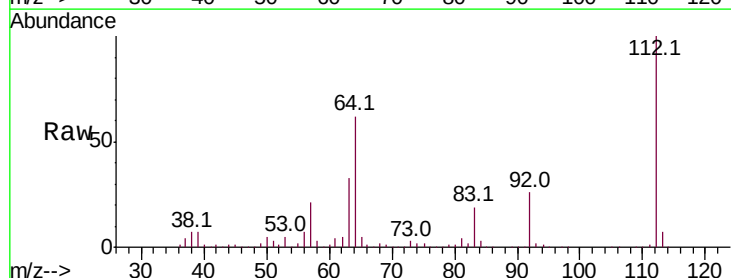
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 88.597 ng
RT: 5.52 min Scan# 584
Delta R.T. 0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.2	51.8	77.6
63	33.0	26.8	40.2

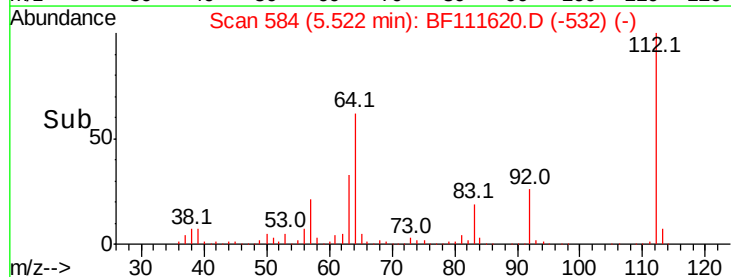
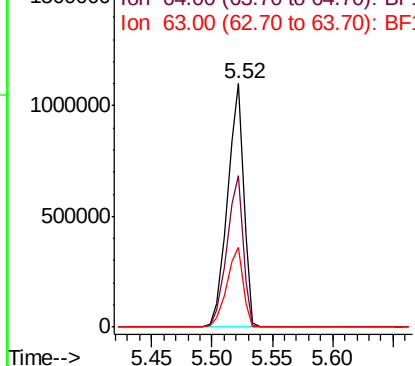


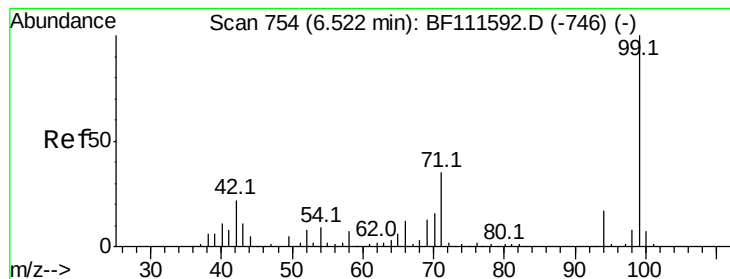
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 87.426 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

Instrument :

BNA_F

ClientSampleId :

EB03_1.5-3.5

Tot Ion: 99 Resp: 1284813

Ion Ratio Lower Upper

99 100

42 22.5 17.4 26.0

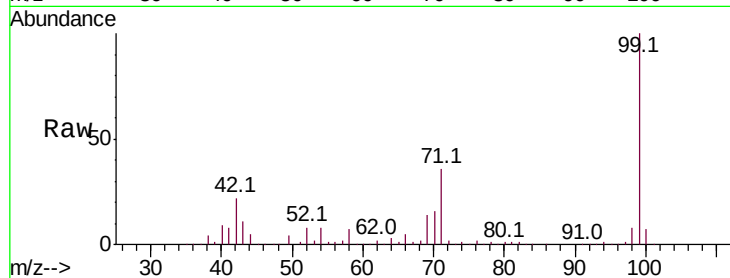
71 35.6 26.1 39.1

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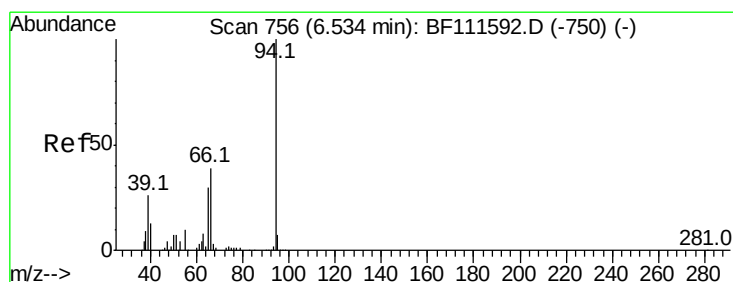
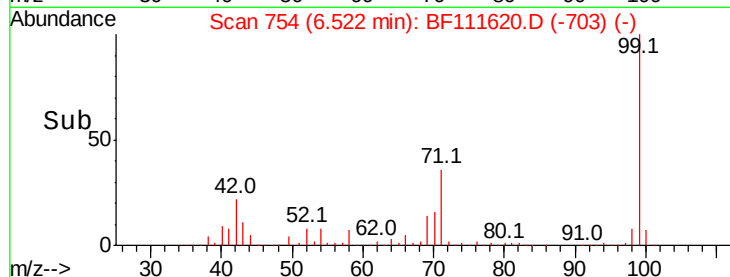
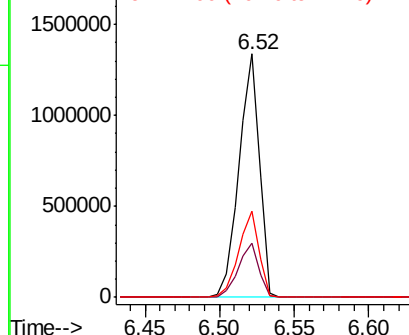
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 6.025 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.00 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

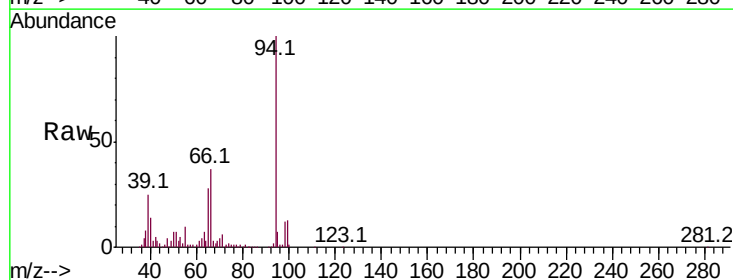
Tgt Ion: 94 Resp: 99899

Ion Ratio Lower Upper

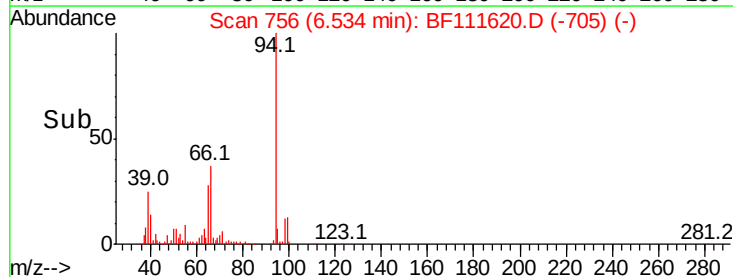
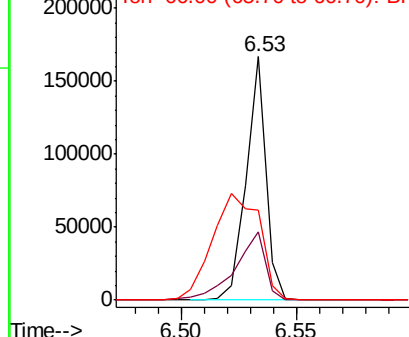
94 100

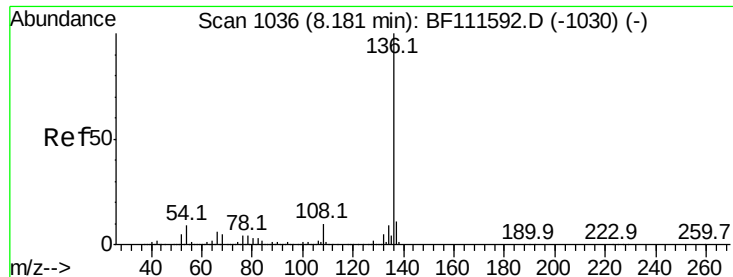
65 28.3 11.7 51.7

66 36.9 21.0 61.0



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





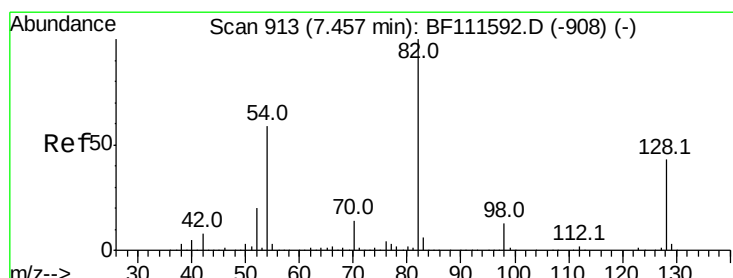
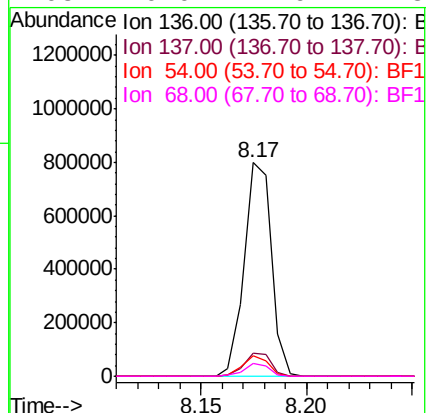
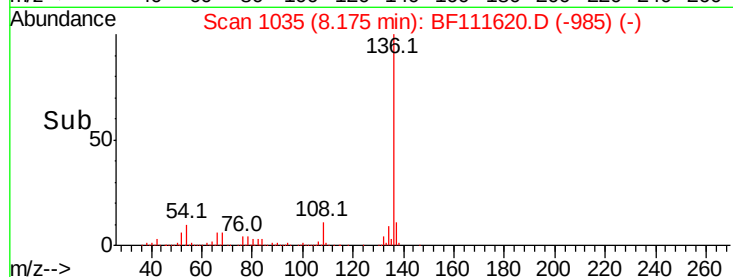
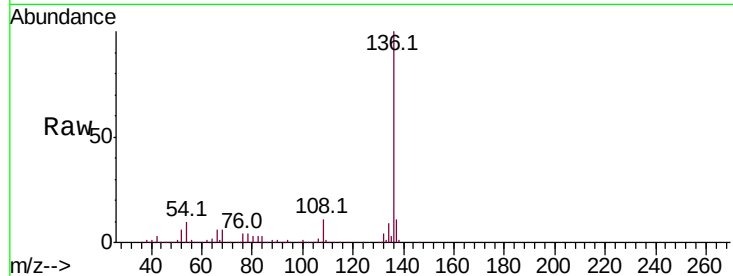
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.1	9.1	13.7	
54	9.7	7.7	11.5	
68	6.0	4.9	7.3	

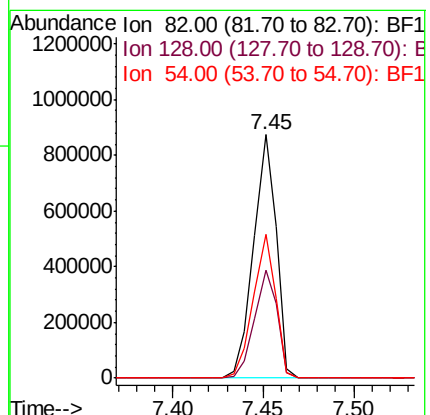
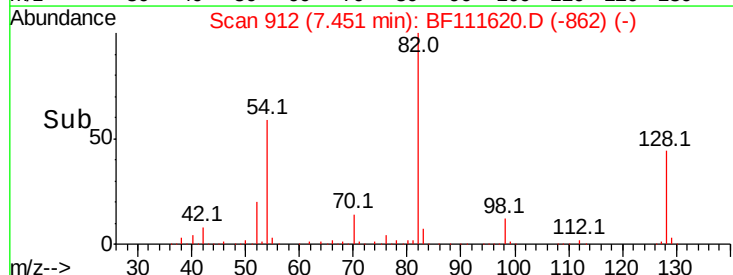
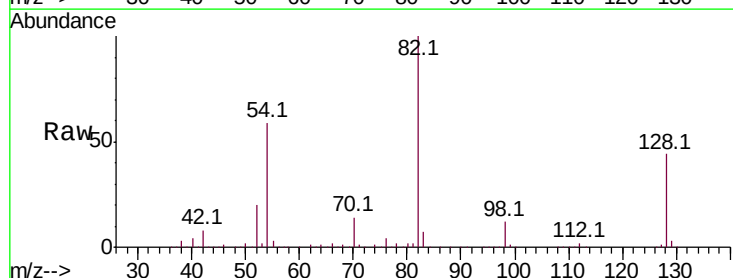
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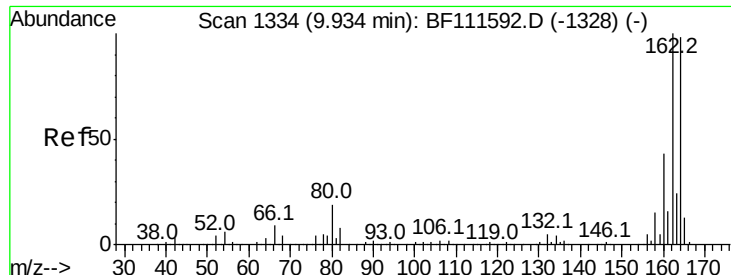
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#23
Nitrobenzene-d5
Concen: 62.530 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	44.2	37.4	56.2	
54	59.2	47.6	71.4	





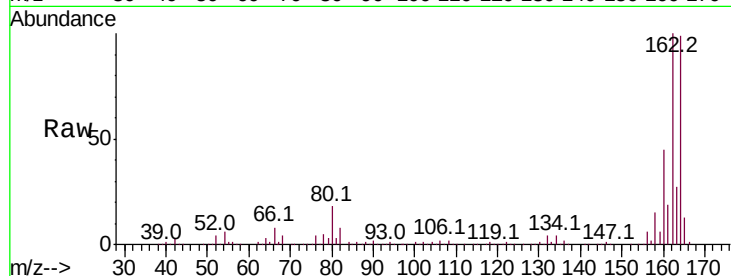
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.00 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion	Ratio	Resp	Lower	Upper
164	100	327898		
162	100.6	81.4	122.0	
160	45.0	35.7	53.5	

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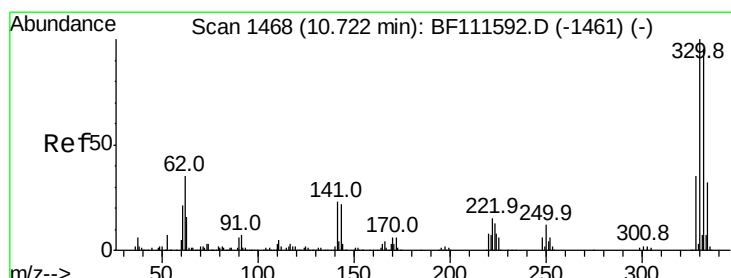
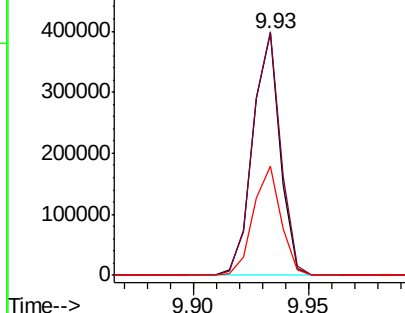
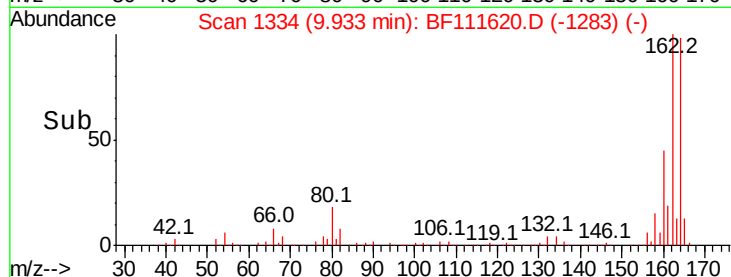


Abundance

Ion 164.00 (163.70 to 164.70): E

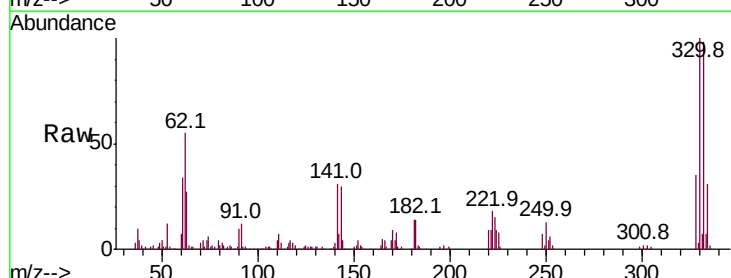
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 83.376 ng
RT: 10.72 min Scan# 1467
Delta R.T. -0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	323029		
332	96.9	76.0	114.0	
141	29.7	31.0	46.6#	

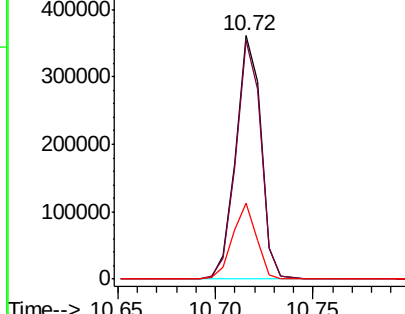
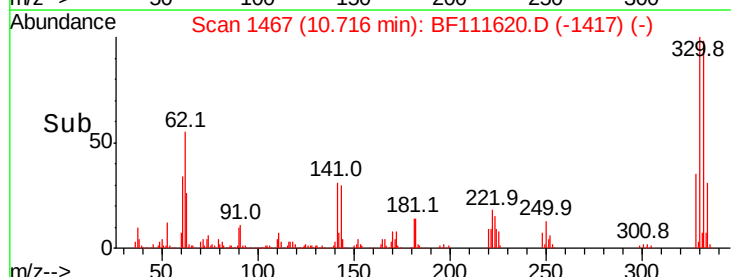


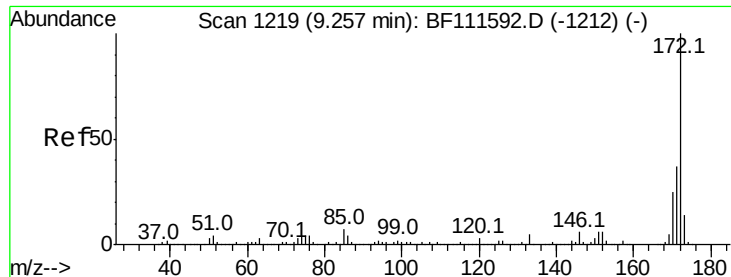
Abundance

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





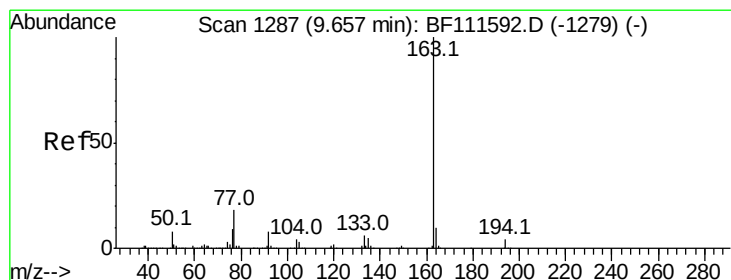
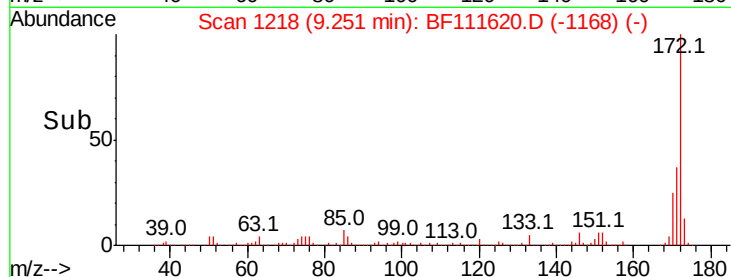
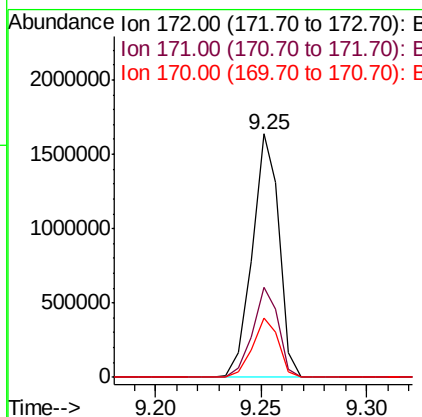
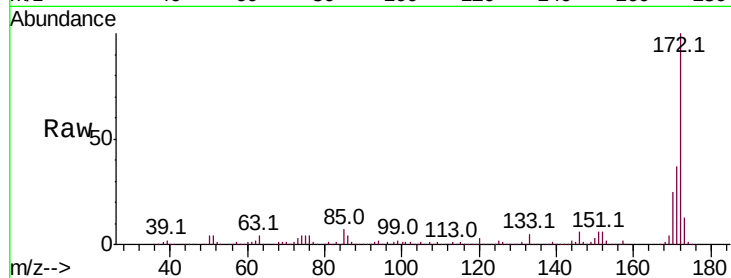
#45
2-Fluorobiphenyl
Concen: 63.855 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.9	33.0	49.4
170	24.5	22.3	33.5

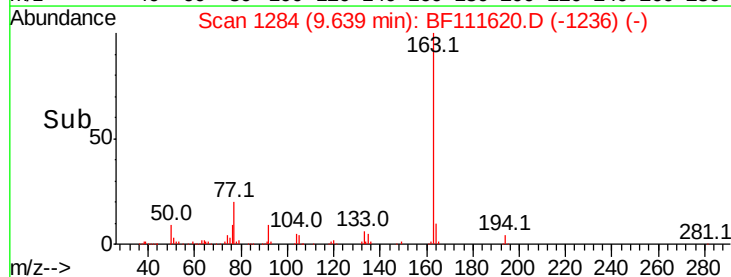
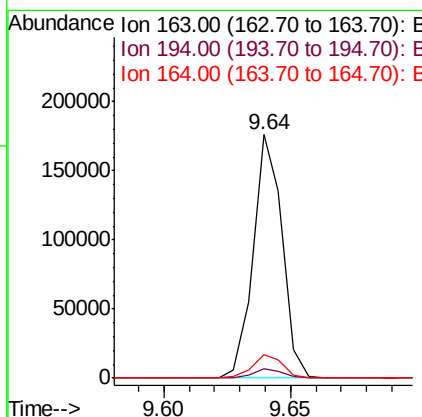
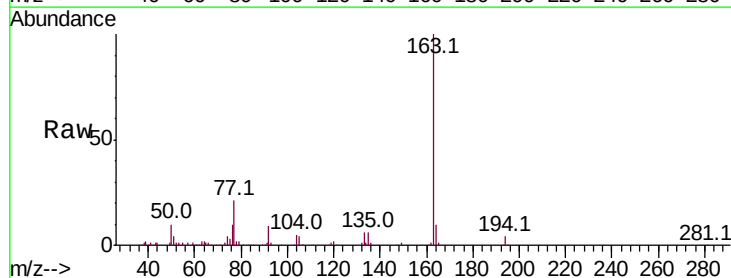
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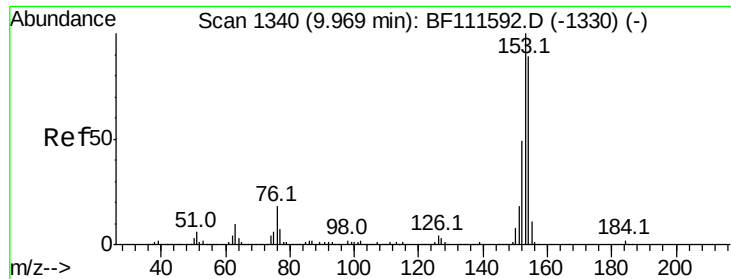
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#50
Dimethylphthalate
Concen: 5.820 ng
RT: 9.64 min Scan# 1284
Delta R.T. -0.02 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	9.6	8.9	13.3





#52

Acenaphthene

Concen: 6.711 ng

RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

Instrument :

BNA_F

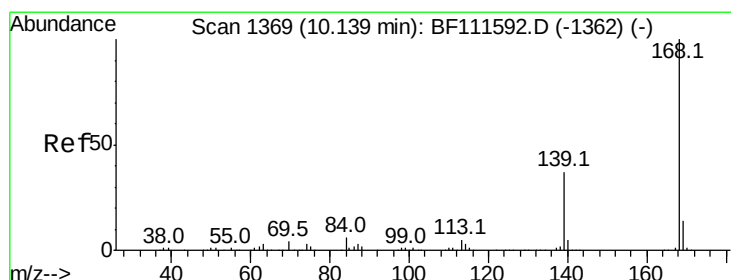
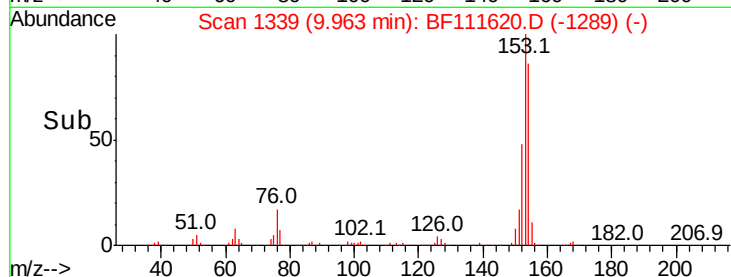
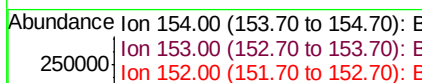
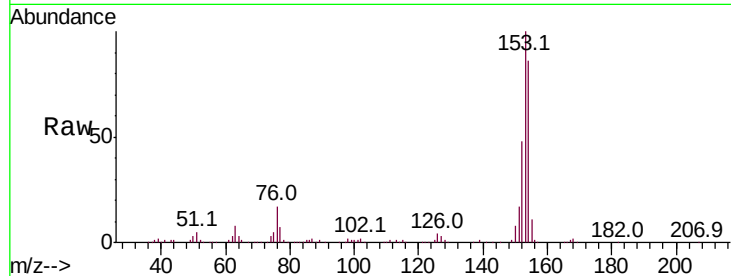
ClientSampled :

EB03_1.5-3.5

Tot Ion:	154	Resp:	132537
Ion Ratio	Lower	Upper	
154	100		
153	116.5	87.8	131.8
152	56.5	43.4	65.2

Manual Integrations
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#55

Dibenzofuran

Concen: 3.568 ng

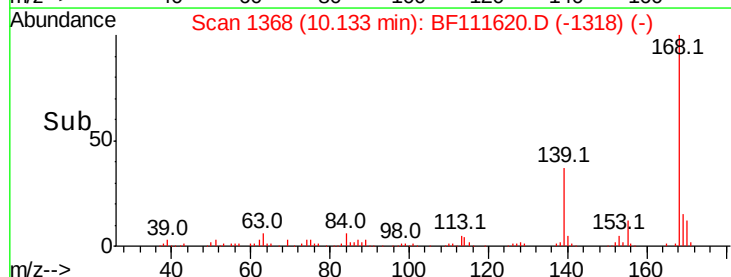
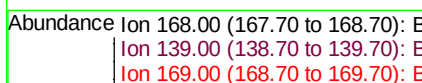
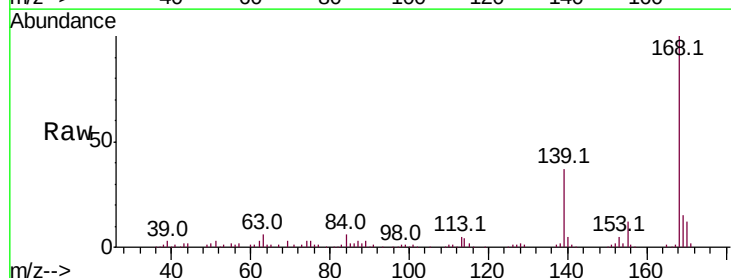
RT: 10.13 min Scan# 1368

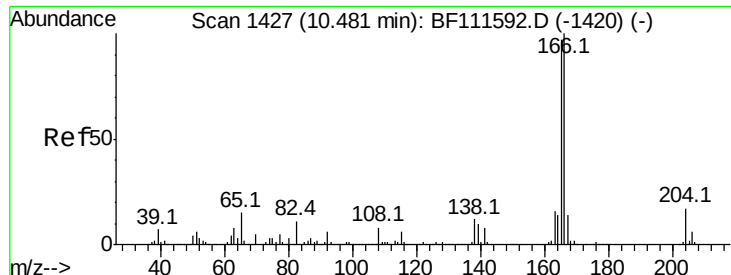
Delta R.T. -0.01 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

Tgt Ion:	168	Resp:	106439
Ion Ratio	Lower	Upper	
168	100		
139	37.1	32.6	49.0
169	15.4	11.8	17.6





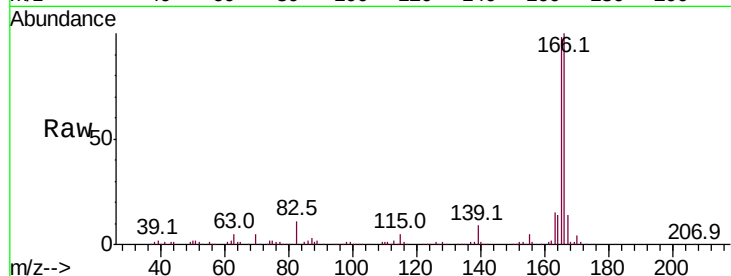
#58
 Fluorene
 Concen: 8.012 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.01 min
 Lab File: BF111620.D
 Acq: 20 Dec 2018 5:03

Instrument :
 BNA_F
 ClientSampleId :
 EB03_1.5-3.5

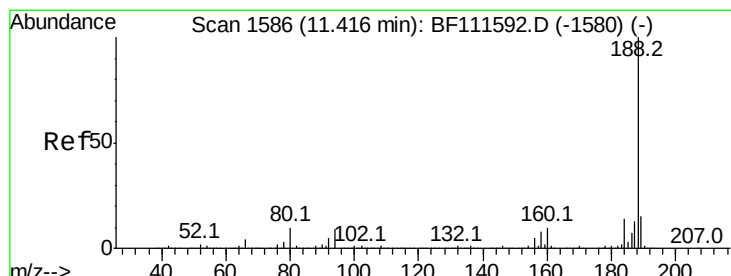
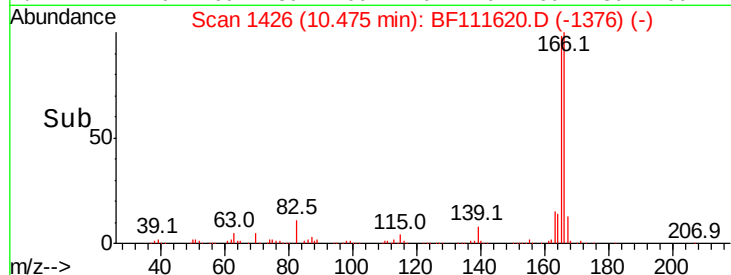
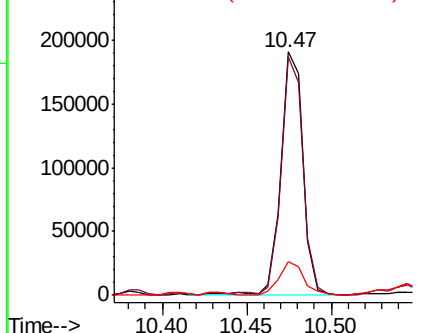
Tot Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.4	117.6
167	13.7	11.2	16.8

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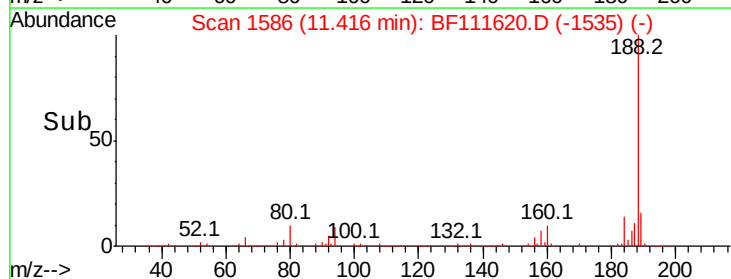
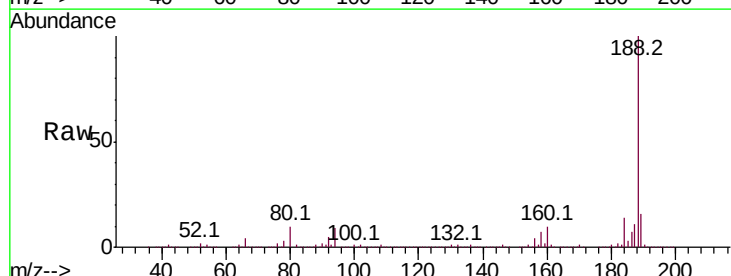
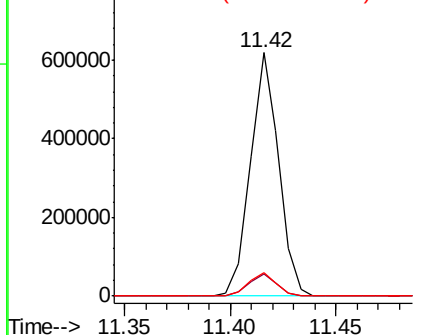
Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

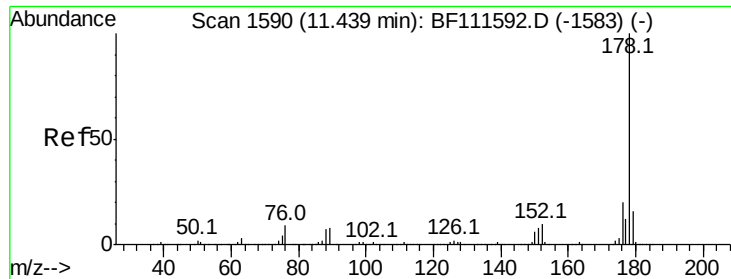


#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: BF111620.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.1	9.6	14.4#
80	9.7	9.8	14.6#

Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1





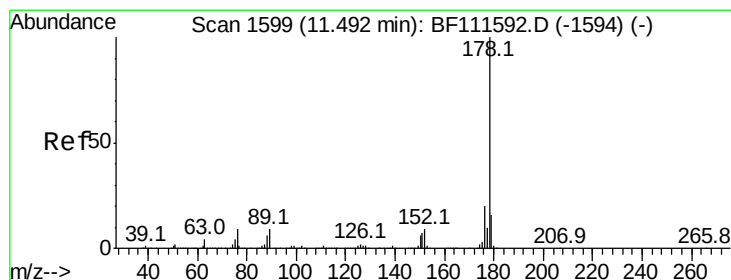
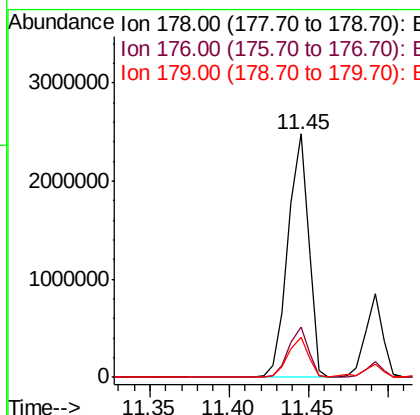
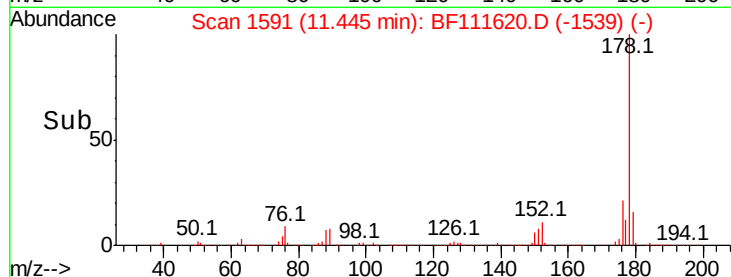
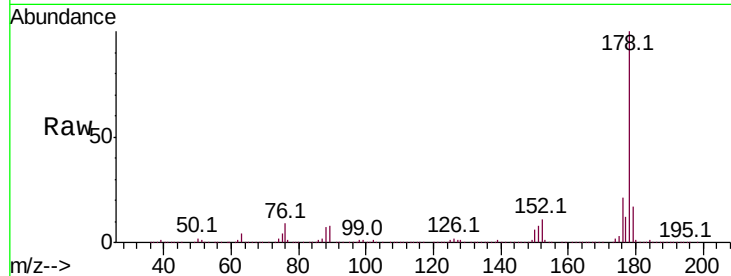
#71
Phenanthrene
Concen: 74.138 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion:178 Resp: 2250449
Ion Ratio Lower Upper
178 100
176 20.8 18.1 27.1
179 16.5 14.0 21.0

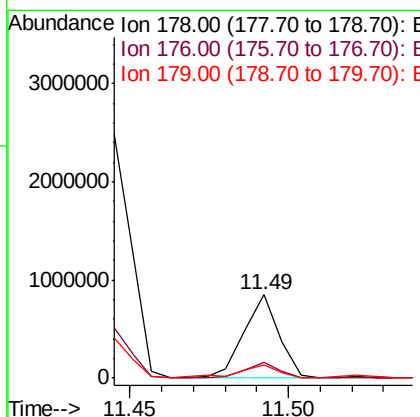
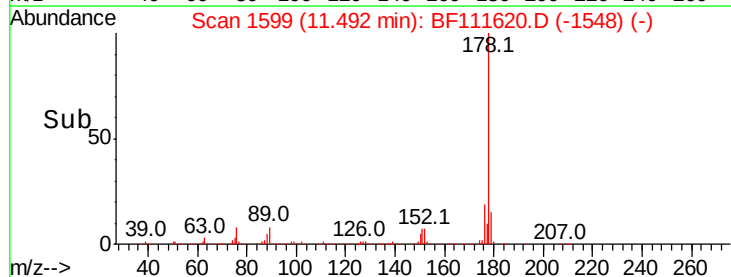
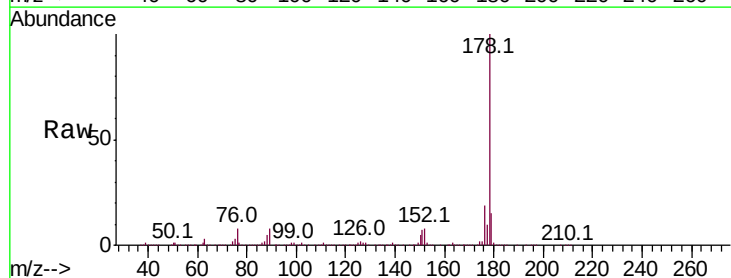
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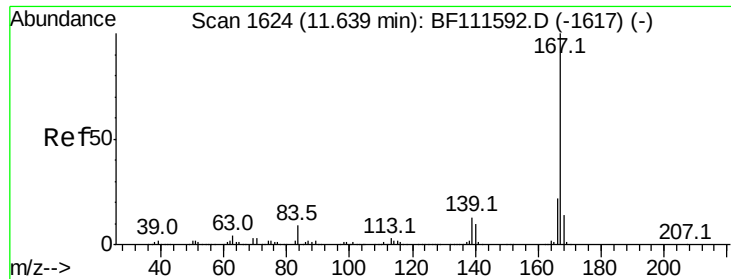
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#72
Anthracene
Concen: 20.801 ng
RT: 11.49 min Scan# 1599
Delta R.T. -0.00 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion:178 Resp: 633790
Ion Ratio Lower Upper
178 100
176 18.8 17.2 25.8
179 15.4 13.8 20.8





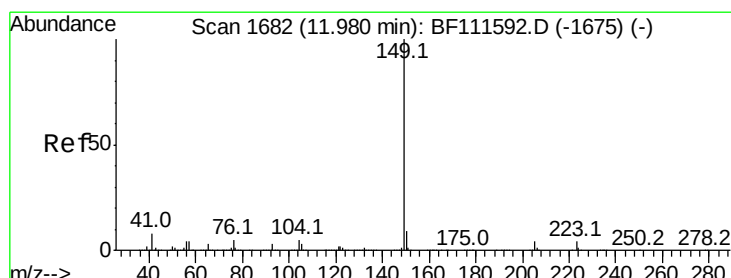
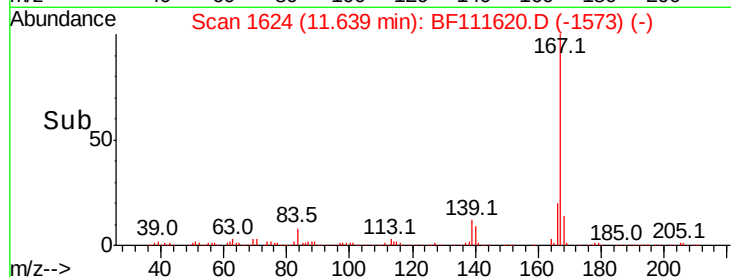
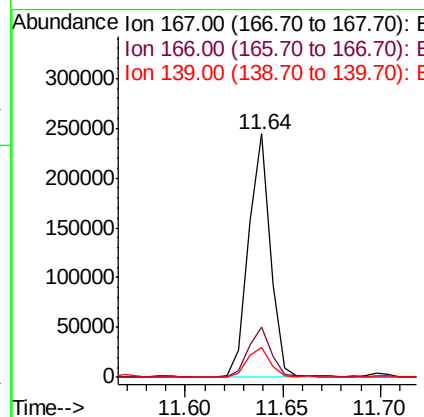
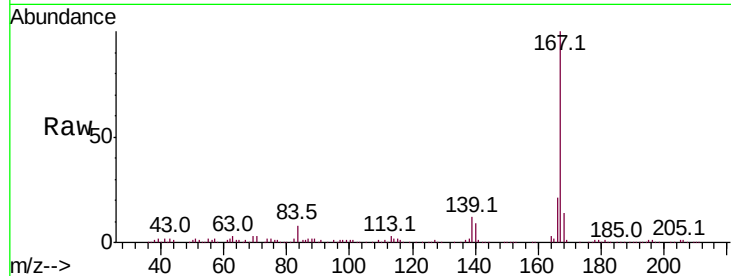
#73
 Carbazole
 Concen: 6.376 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.00 min
 Lab File: BF111620.D
 Acq: 20 Dec 2018 5:03

Instrument :
 BNA_F
 ClientSampleId :
 EB03_1.5-3.5

Tot Ion	Ratio	Resp	Lower	Upper
167	100	188597		
166	20.7	19.3	28.9	
139	12.1	11.9	17.9	

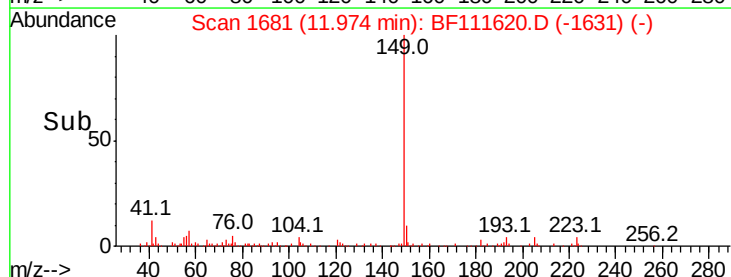
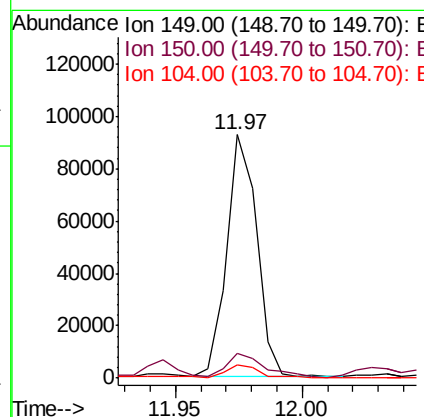
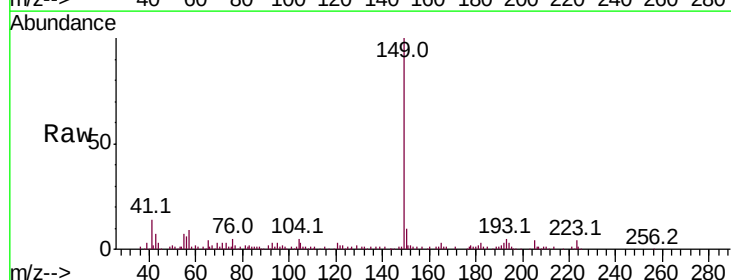
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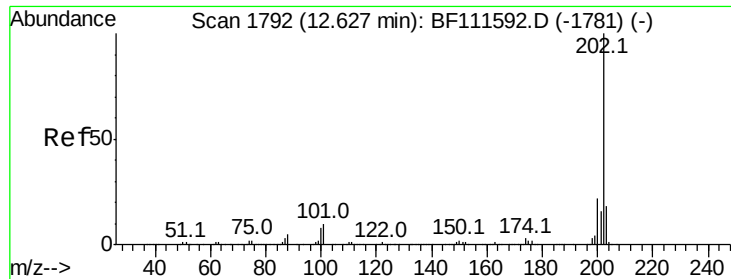
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#74
 Di-n-butylphthalate
 Concen: 2.285 ng
 RT: 11.97 min Scan# 1681
 Delta R.T. -0.01 min
 Lab File: BF111620.D
 Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	75772		
150	10.0	8.8	13.2	
104	5.3	4.5	6.7	





#75

Fluoranthene

Concen: 105.769 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.01 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

Instrument :

BNA_F

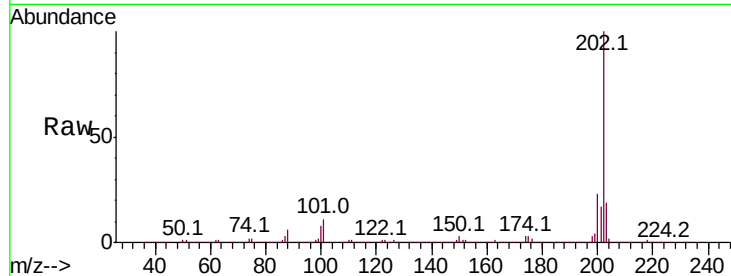
ClientSampleId :

EB03_1.5-3.5

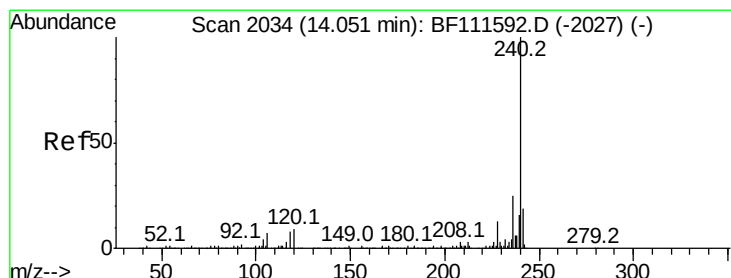
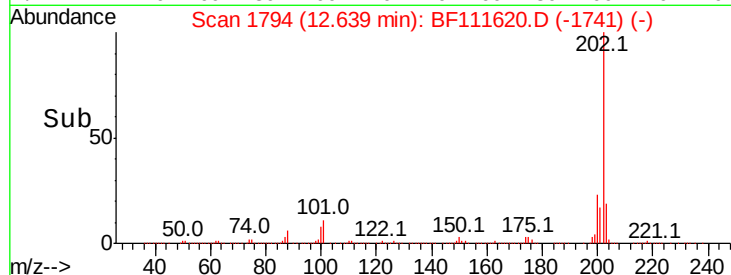
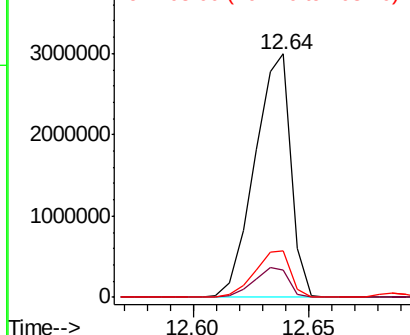
Tot Ion:	202	Resp:	3251224
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	33.8
203	19.0	0.0	38.6

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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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

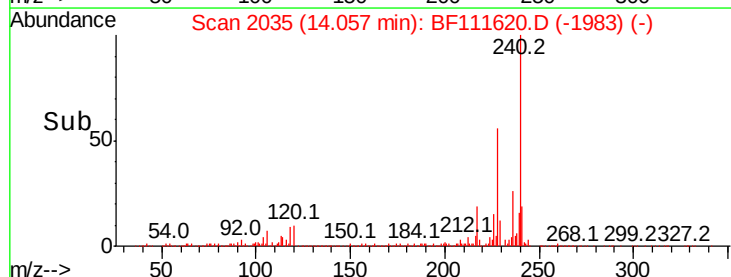
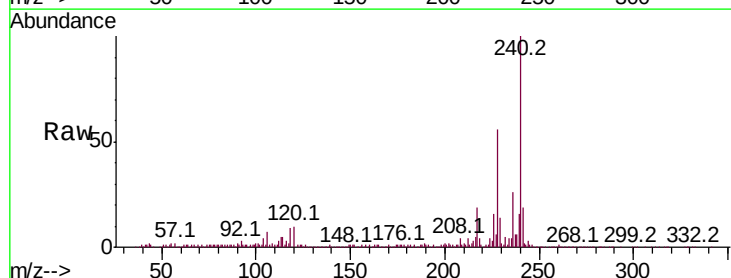
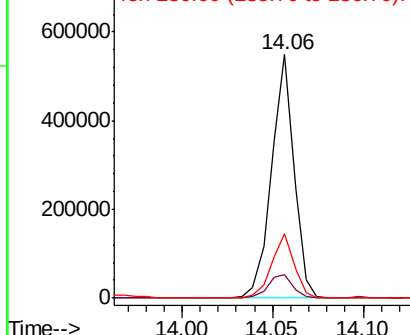
Delta R.T. 0.01 min

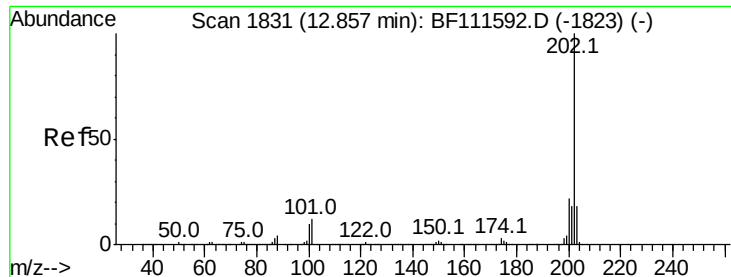
Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

Tgt Ion:	240	Resp:	473699
Ion	Ratio	Lower	Upper
240	100		
120	9.8	12.2	18.2#
236	26.2	20.2	30.2

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





#78

Pvrene

Concen: 86.423 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.01 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

Instrument :

BNA_F

ClientSampleId :

EB03_1.5-3.5

Tot Ion:202 Resp: 2890980

Ion Ratio Lower Upper

202 100

200 23.1 19.0 28.4

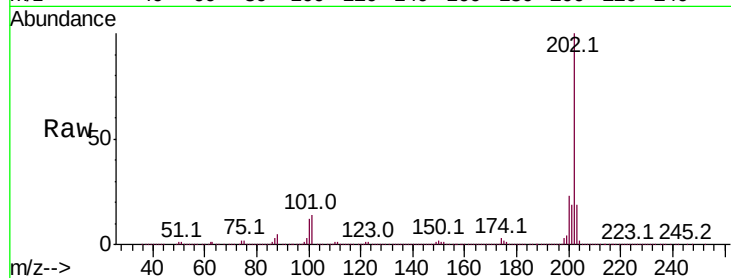
203 19.2 15.2 22.8

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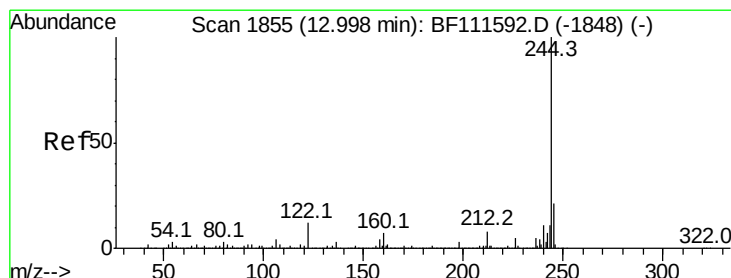
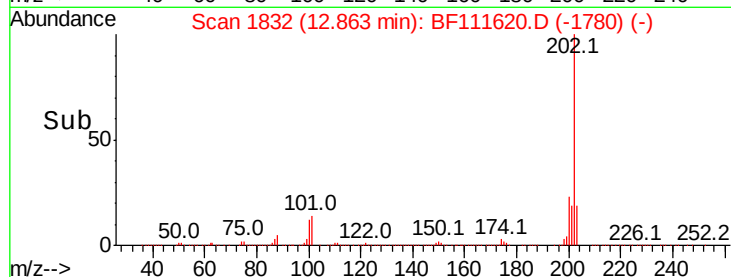
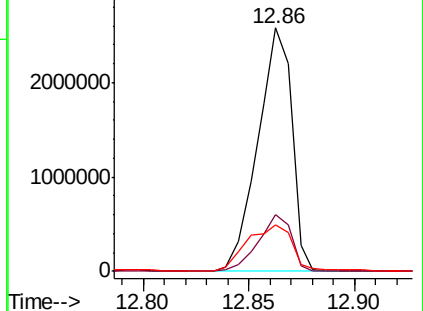
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 56.218 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.00 min

Lab File: BF111620.D

Acq: 20 Dec 2018 5:03

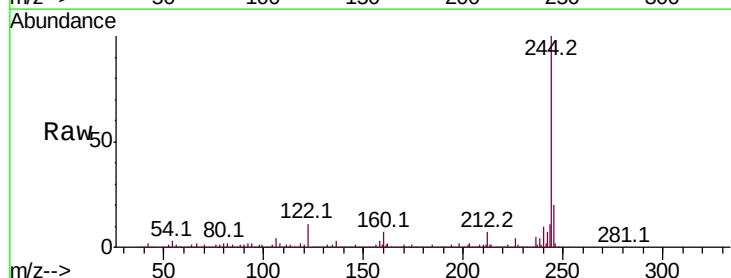
Tgt Ion:244 Resp: 1404260

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

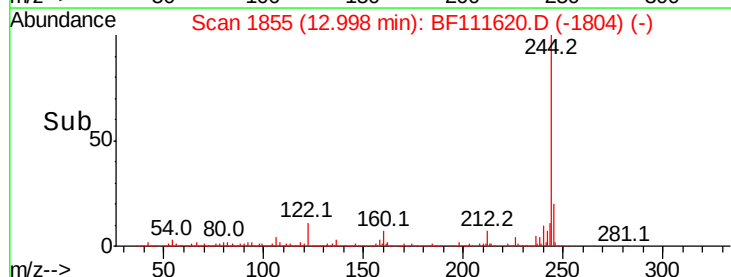
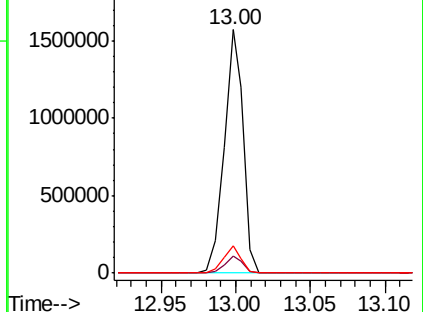
122 11.3 13.1 19.7#

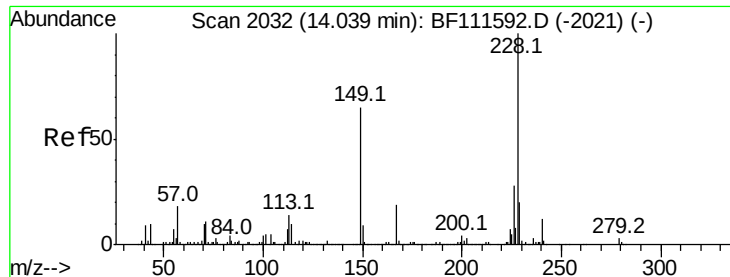


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





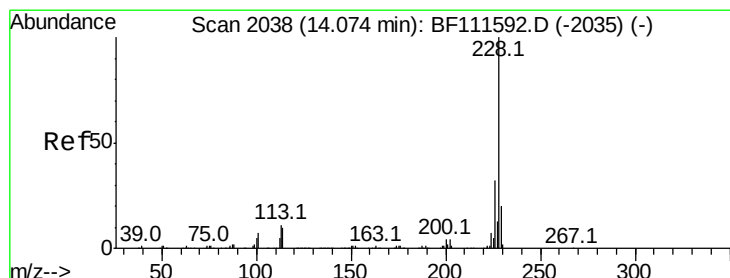
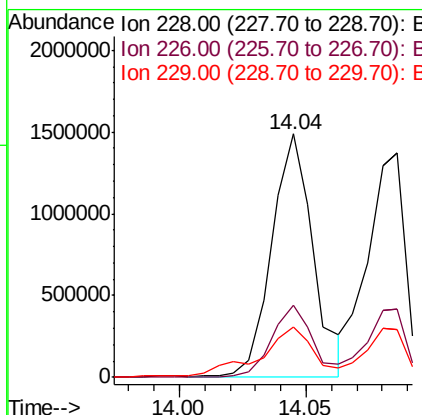
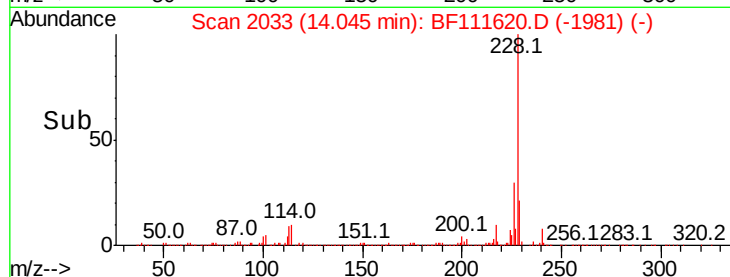
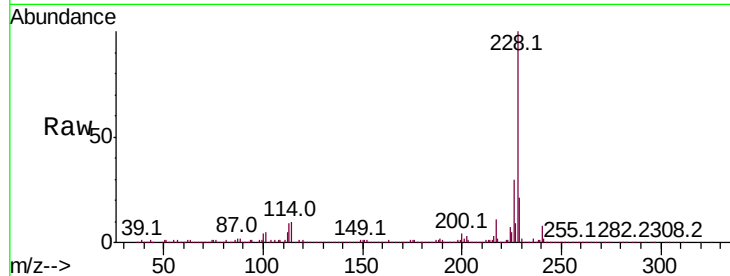
#81
Benzo(a)anthracene
Concen: 62.595 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion:228 Resp: 1692187
Ion Ratio Lower Upper
228 100
226 29.7 22.6 34.0
229 20.8 16.3 24.5

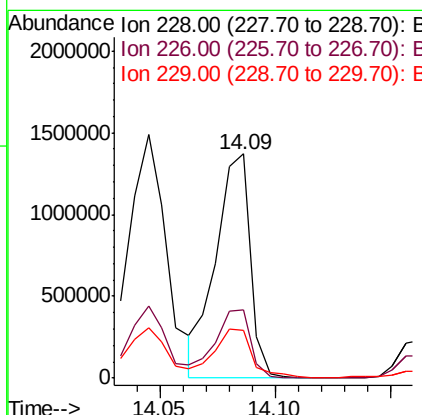
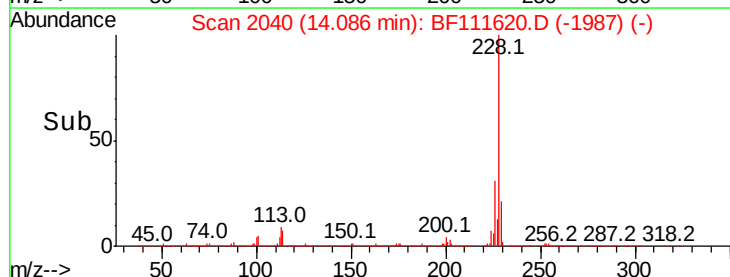
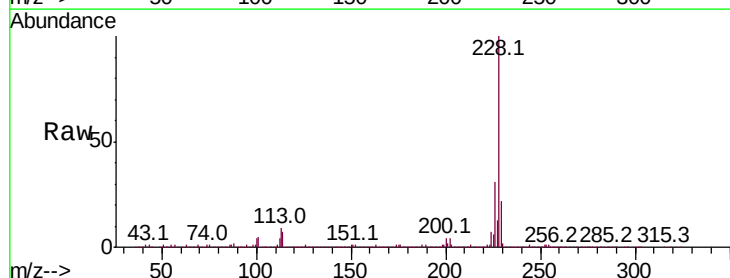
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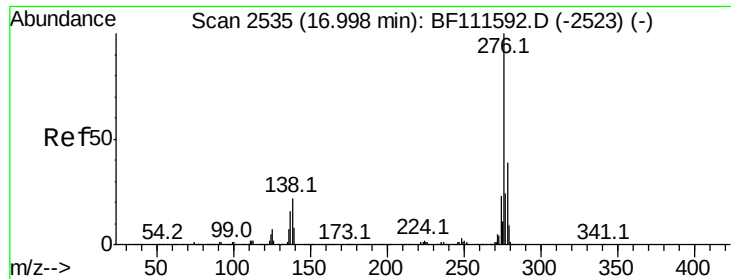
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#83
Chrysene
Concen: 53.309 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion:228 Resp: 1416428
Ion Ratio Lower Upper
228 100
226 30.7 25.3 37.9
229 21.5 17.2 25.8





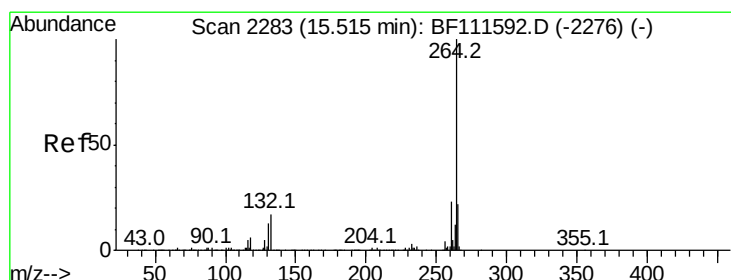
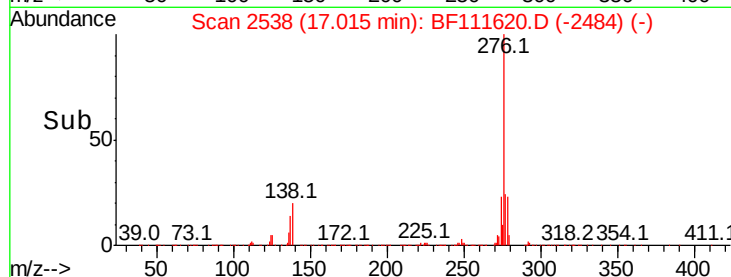
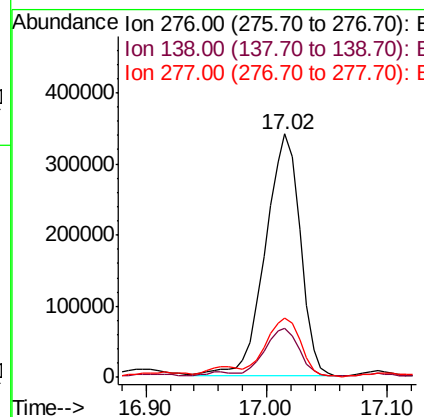
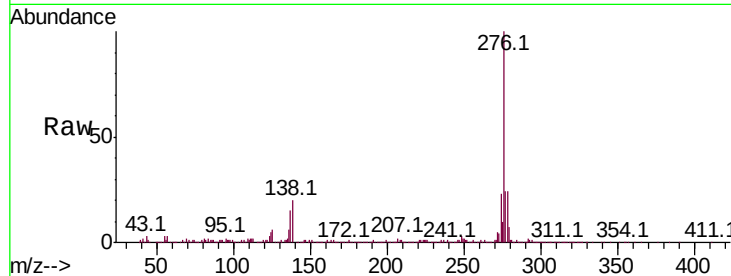
#86
Indeno(1,2,3-cd)pyrene
Concen: 30.036 ng
RT: 17.02 min Scan# 2538
Delta R.T. 0.02 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.7	27.8	41.6#
277	24.0	20.1	30.1

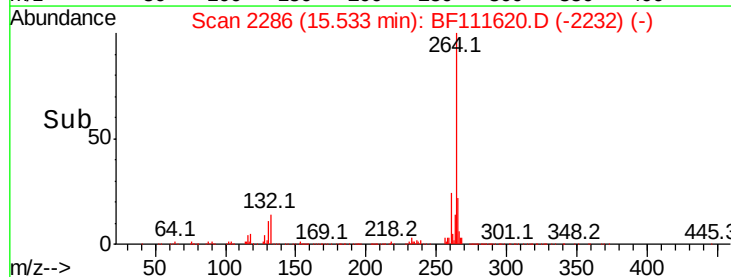
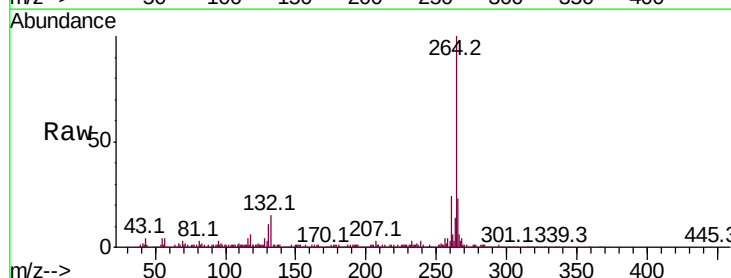
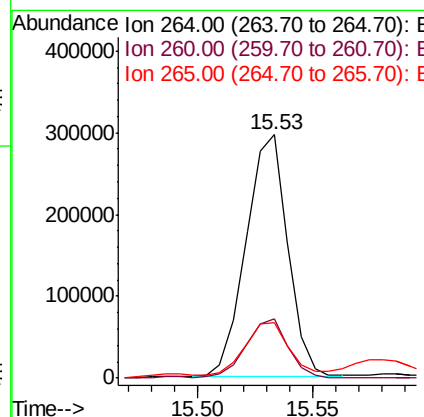
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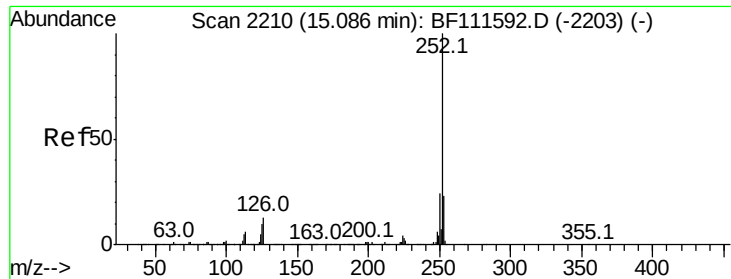
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2286
Delta R.T. 0.02 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.3	27.5
265	22.5	17.7	26.5





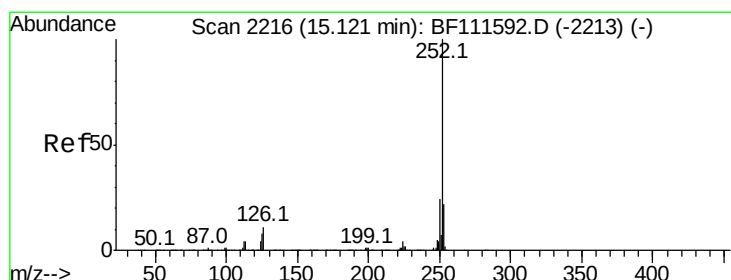
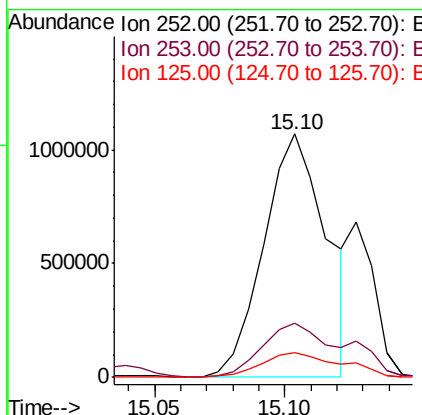
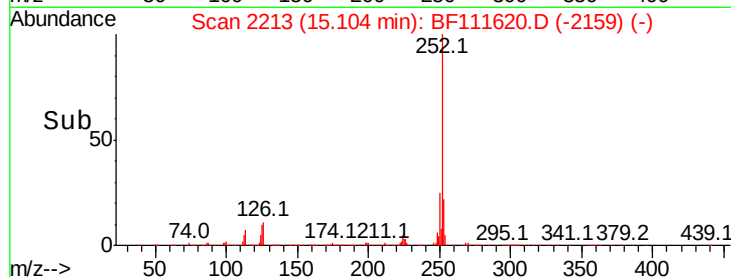
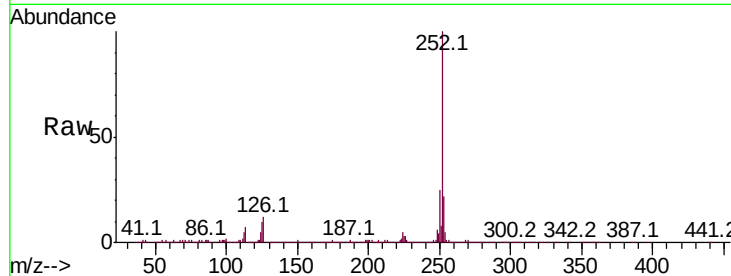
#88
Benzo(b)fluoranthene
Concen: 81.389 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.02 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
ClientSampleId :
EB03_1.5-3.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2
125	10.0	10.4	15.6

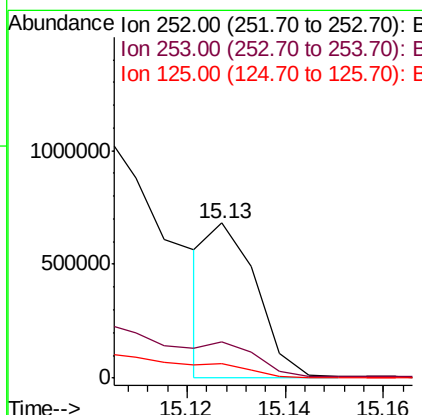
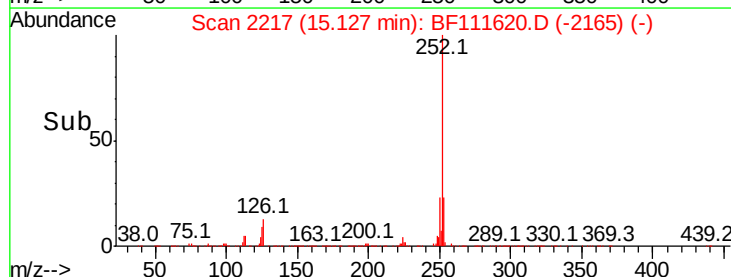
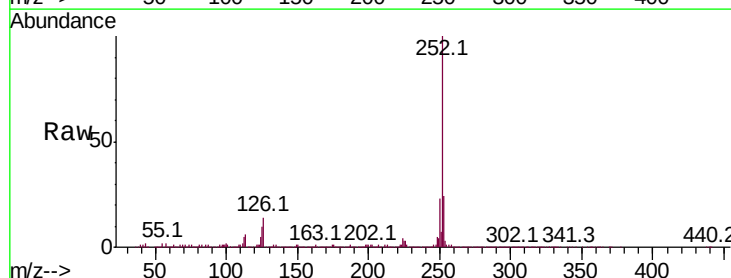
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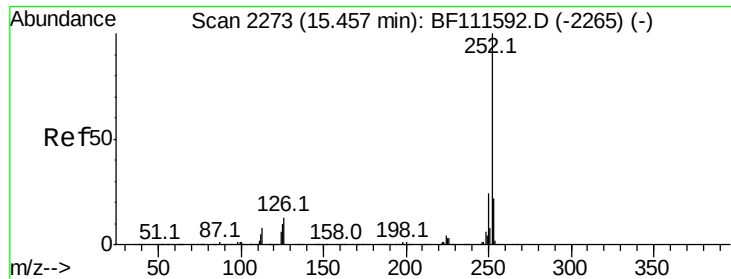
Sohil
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#89
Benzo(k)fluoranthene
Concen: 21.996 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.1	27.1
125	9.7	9.8	14.8





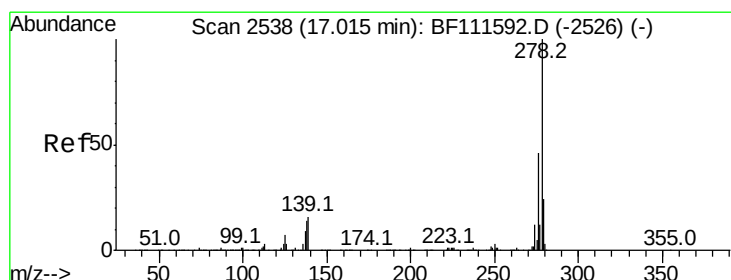
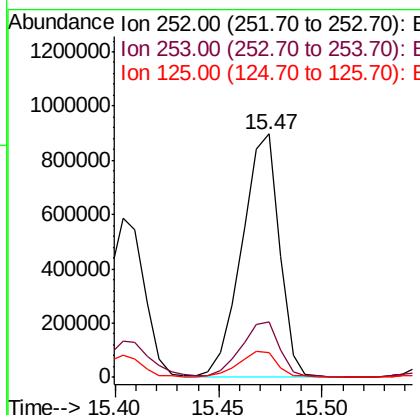
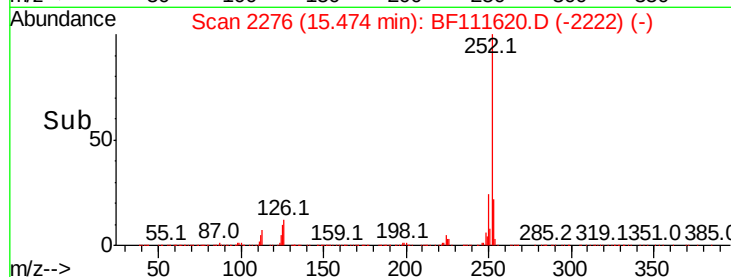
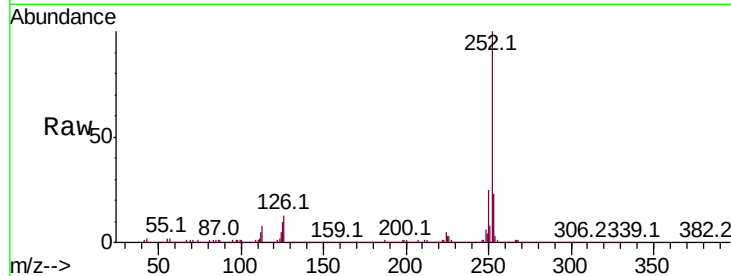
#90
Benzo(a)pyrene
Concen: 57.124 ng/ml
RT: 15.47 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Instrument :
BNA_F
Client Sample ID :
EB03_1.5-3.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	9.9	12.3	18.5#

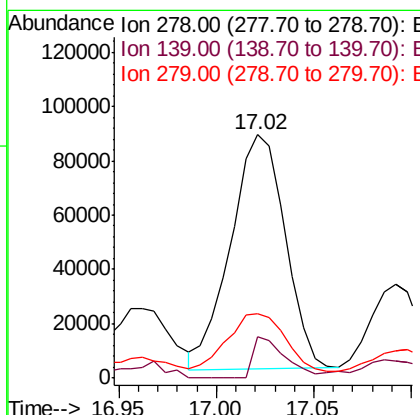
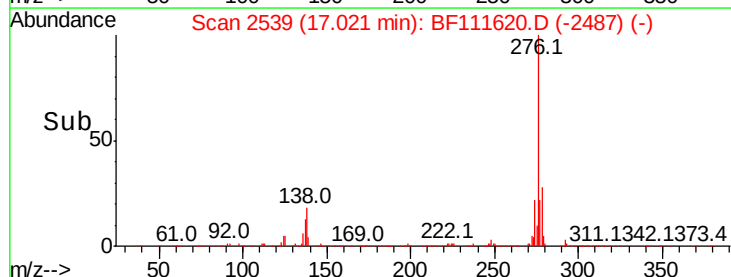
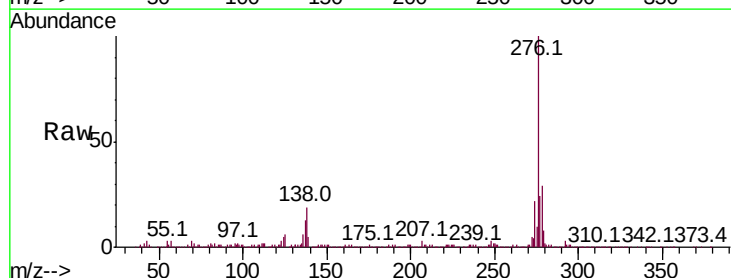
Manual Integrations
APPROVED

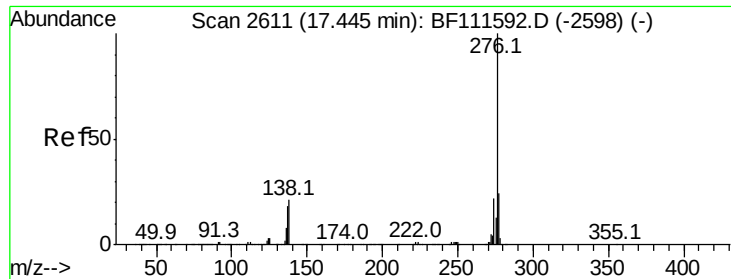
Sohil
12/20/2018 12:42:44 PM



#91
Dibenzo(a,h)anthracene
Concen: 9.549 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.01 min
Lab File: BF111620.D
Acq: 20 Dec 2018 5:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.8	18.2	27.4#
279	26.7	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 35.177 ng
 RT: 17.46 min Scan# 2614
 Delta R.T. 0.02 min
 Lab File: BF111620.D
 Acq: 20 Dec 2018 5:03

Instrument :
 BNA_F
 ClientSampleId :
 EB03_1.5-3.5

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	19.6	24.9	37.3

Manual Integrations
 APPROVED

Sohil
 12/20/2018 12:42:44 PM

