

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
 Data File : BF102767.D
 Acq On : 6 Feb 2018 5:18
 Operator : SJ/JU
 Sample : J1454-07
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-7-EW(2-4)

Manual Integrations
 APPROVED

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 2/6/2018 2:26:22 PM

Quant Time: Feb 06 13:06:57 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	222483	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	916205	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	395198	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	571168	20.00	ng	0.00
75) Chrysene-d12	14.05	240	338511	20.00	ng	0.00
86) Perylene-d12	15.53	264	334648	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	1053720	71.93	ng	0.00
7) Phenol-d6	6.50	99	1392918	78.97	ng	0.00
23) Nitrobenzene-d5	7.45	82	975895	73.89	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	192398	60.49	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	1295818	54.41	ng	0.00
78) Terphenyl-d14	12.99	244	804068	56.24	ng	0.00
Target Compounds						
10) Phenol	6.52	94	44808	2.370	ng	98
31) Naphthalene	8.19	128	639102	14.277	ng	100
37) 2-Methylnaphthalene	8.87	142	177638	6.061	ng	98
49) Dimethylphthalate	9.63	163	146480	4.754	ng	97
51) Acenaphthene	9.95	154	258434	10.617	ng	99
54) Dibenzofuran	10.12	168	255110	7.437	ng	99
57) Fluorene	10.46	166	302515	12.121	ng	99
70) Phenanthrene	11.43	178	1701180	53.479	ng	99
71) Anthracene	11.48	178	562525	17.387	ng	99
72) Carbazole	11.63	167	284812	8.985	ng	99
74) Fluoranthene	12.62	202	1430229	44.688	ng	98
77) Pyrene	12.85	202	1221207	46.006	ng	99
80) Benzo(a)anthracene	14.04	228	676850	31.793	ng	98
82) Chrysene	14.07	228	574799	26.784	ng	97
85) Indeno(1,2,3-cd)pyrene	17.02	276	261602	14.698	ng	94
87) Benzo(b)fluoranthene	15.10	252	707345m	32.602	ng	
88) Benzo(k)fluoranthene	15.12	252	237172m	11.441	ng	
89) Benzo(a)pyrene	15.47	252	504886	25.853	ng	# 95
90) Dibenzo(a,h)anthracene	17.03	278	69341	4.374	ng	# 87
91) Benzo(a,h,i)perylene	17.47	276	225340	14.524	ng	98

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

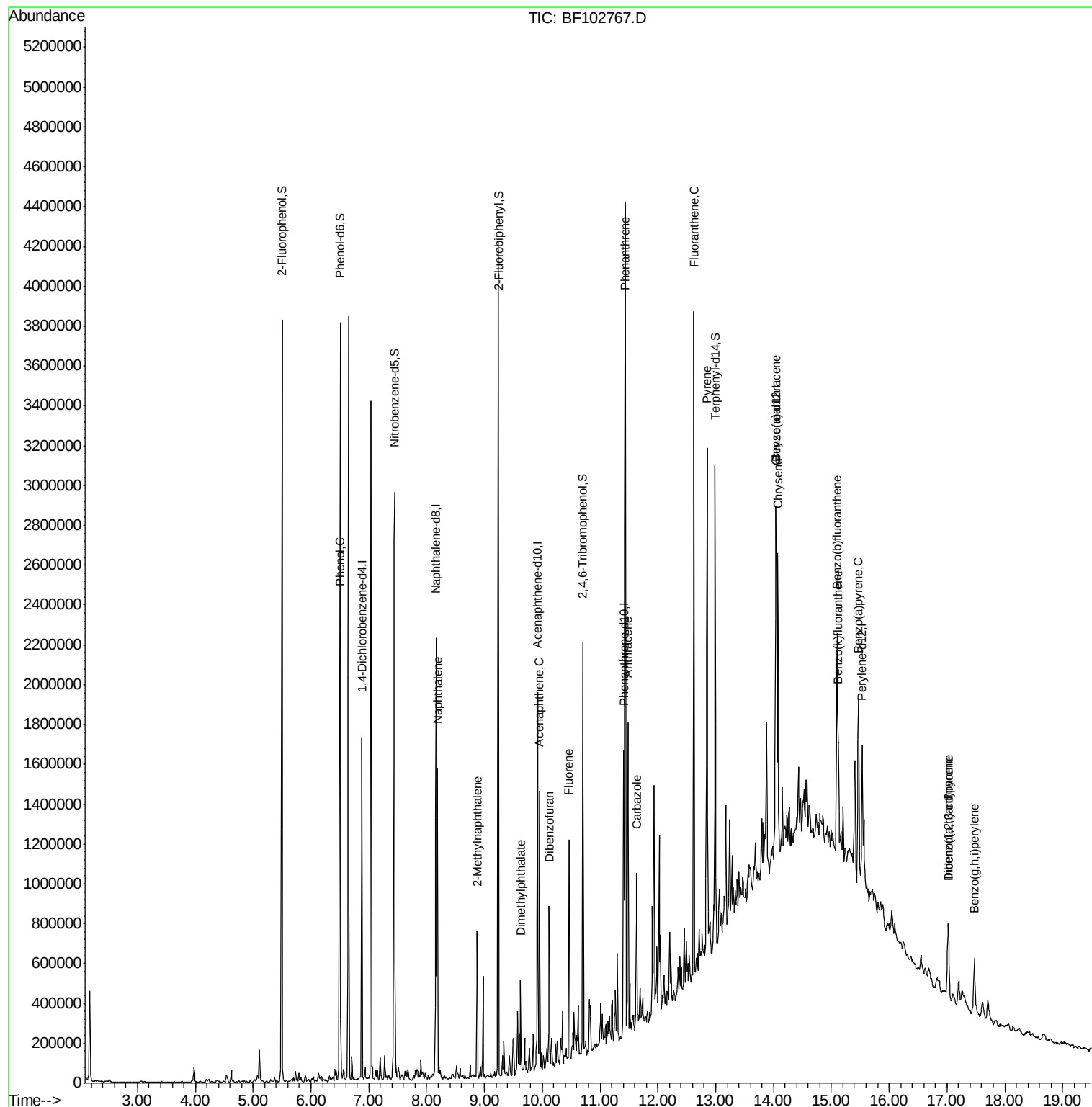
Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
Data File : BF102767.D
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ALS Vial : 40 Sample Multiplier: 1

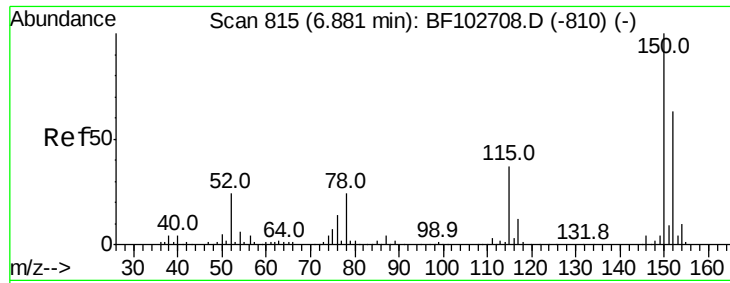
Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

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Quant Time: Feb 06 13:06:57 2018
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#1

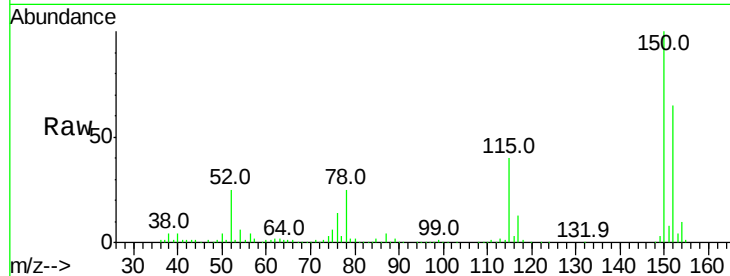
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	62.6	50.1	75.1

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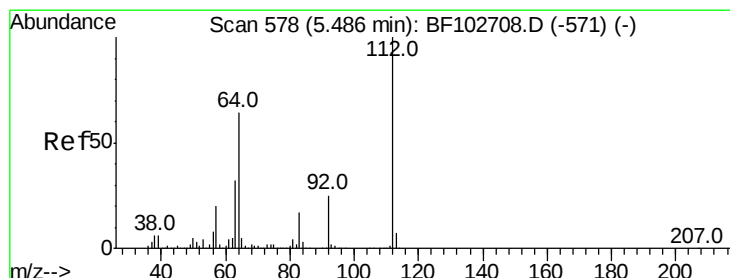
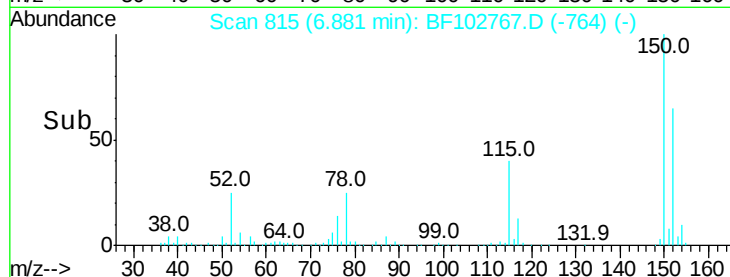
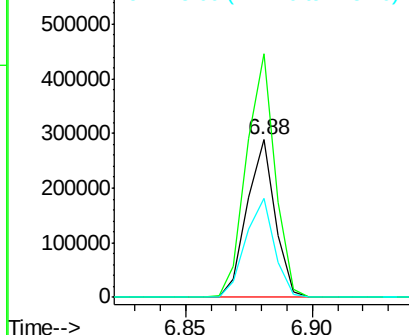


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

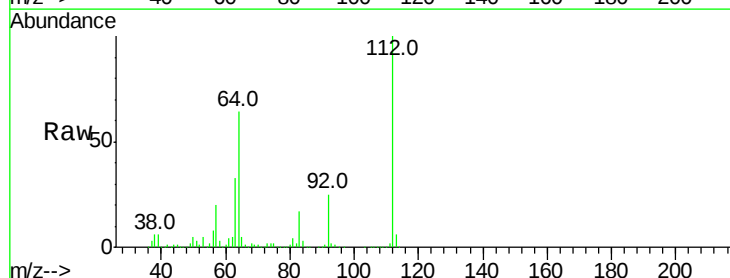
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 71.927 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	47.9	71.9
63	33.2	23.7	35.5

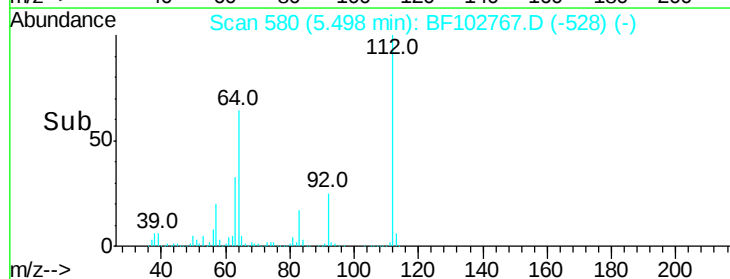
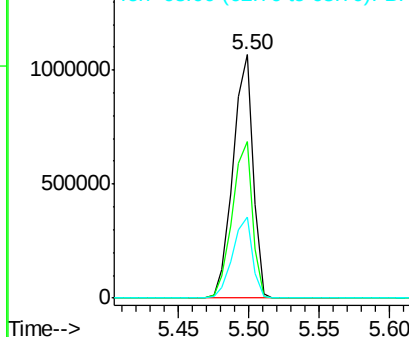


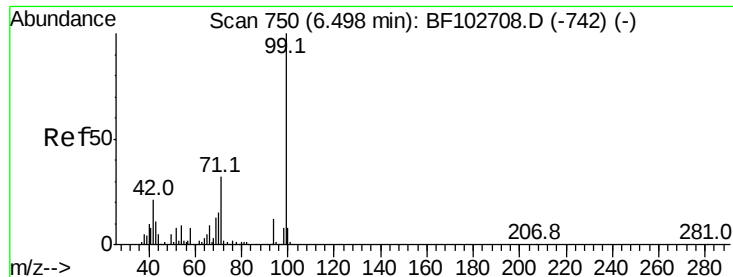
Abundance

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: 78.966 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Instrument :

BNA_F

ClientSampleId :

8-SAN-7-EW(2-4)

Tot Ion: 99 Resp: 1392918

Ion Ratio Lower Upper

99 100

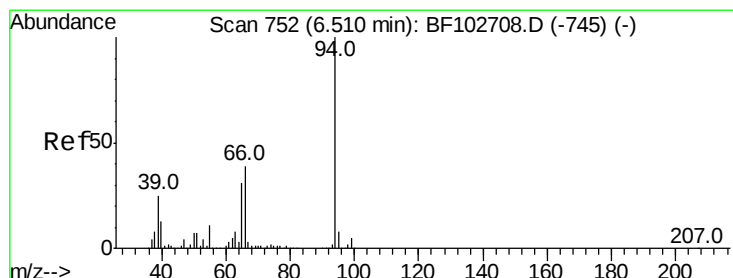
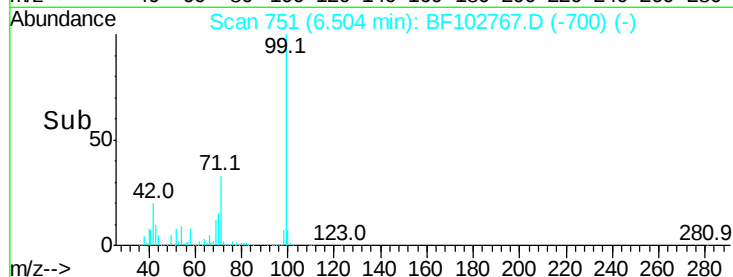
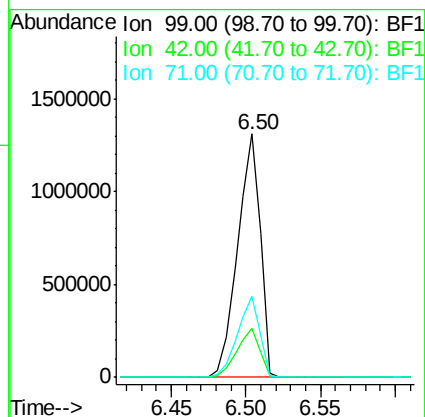
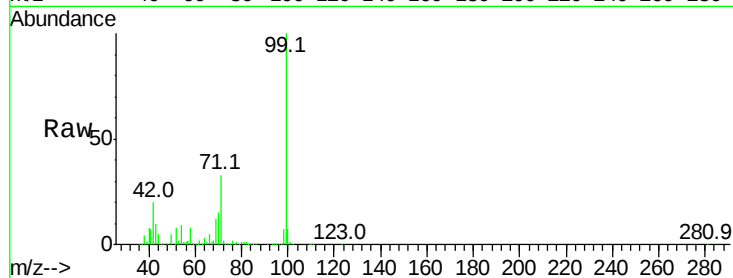
42 20.1 14.5 21.7

71 33.1 25.4 38.0

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#10

Phenol

Concen: 2.370 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

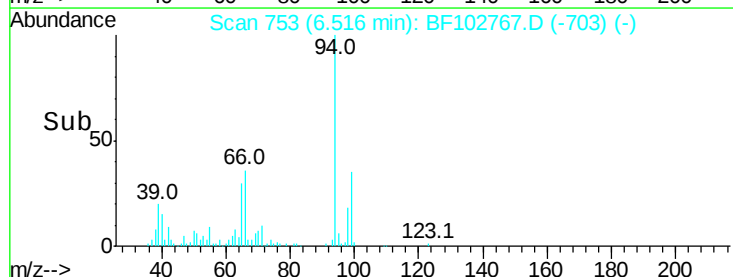
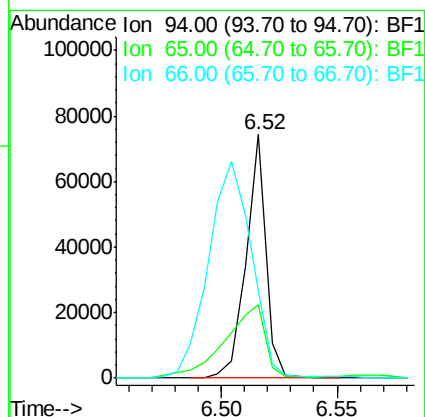
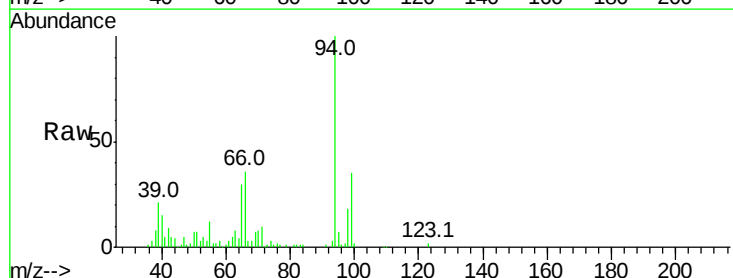
Tgt Ion: 94 Resp: 44808

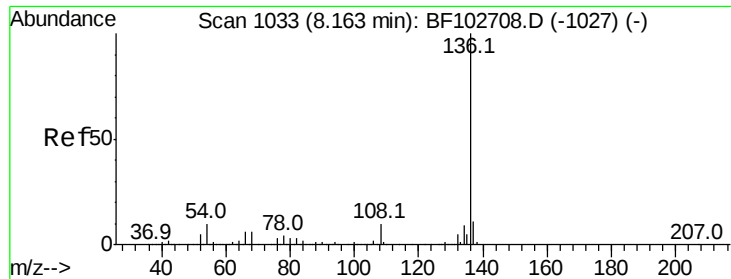
Ion Ratio Lower Upper

94 100

65 30.4 7.9 47.9

66 35.9 16.2 56.2





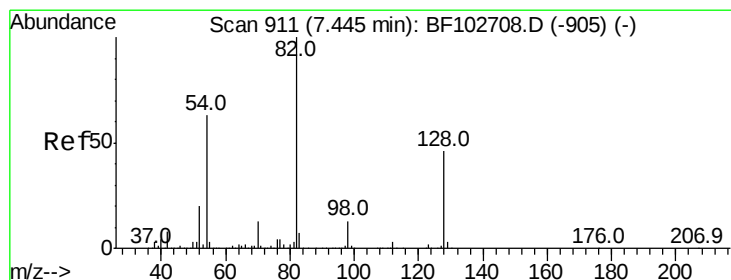
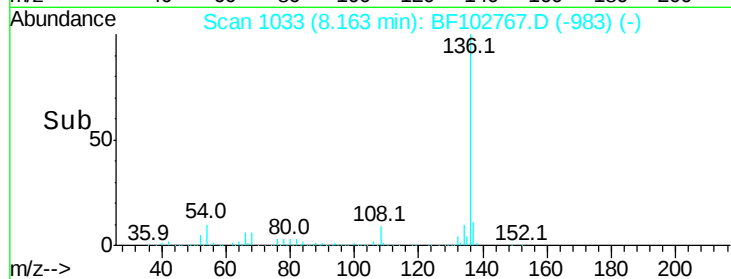
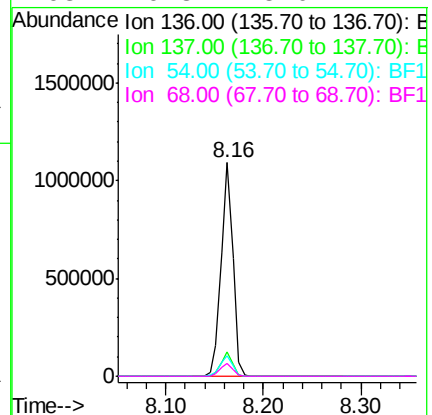
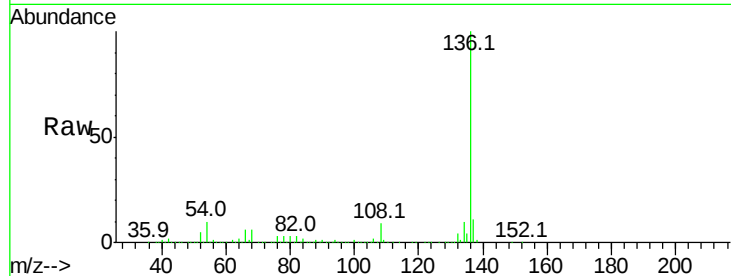
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.8	6.6	9.8
68	6.3	5.0	7.4

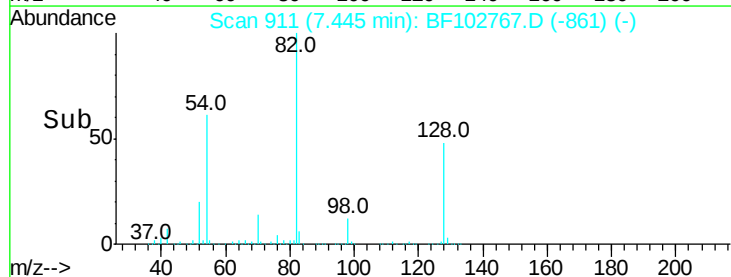
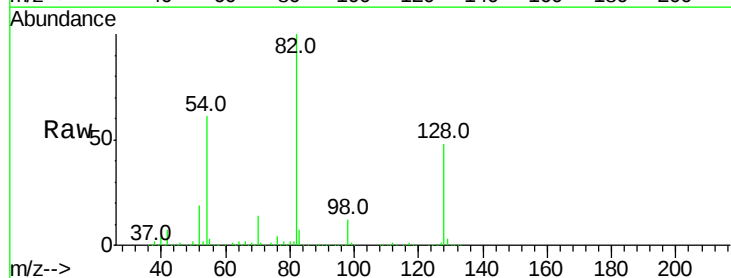
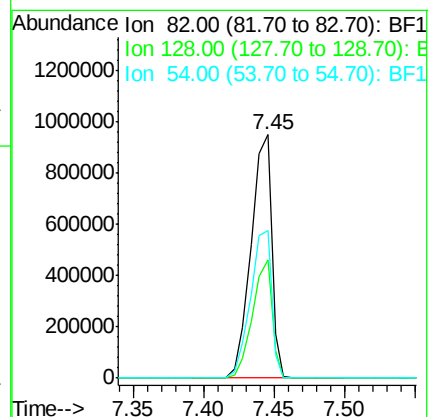
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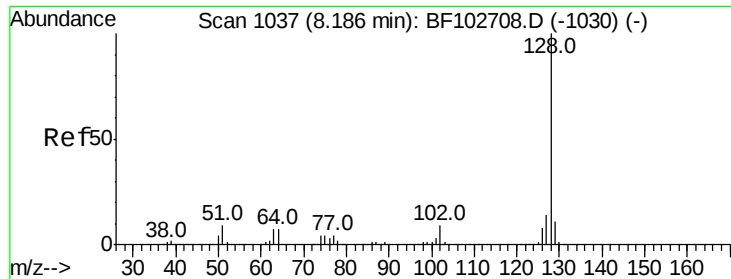
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#23
Nitrobenzene-d5
Concen: 73.890 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	48.4	36.1	54.1
54	60.6	41.4	62.2





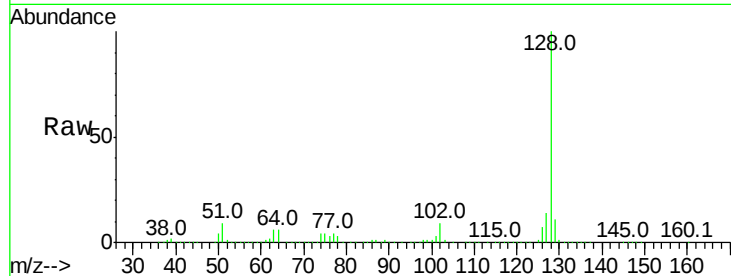
#31
Naphthalene
Concen: 14.277 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.7	10.9	16.3

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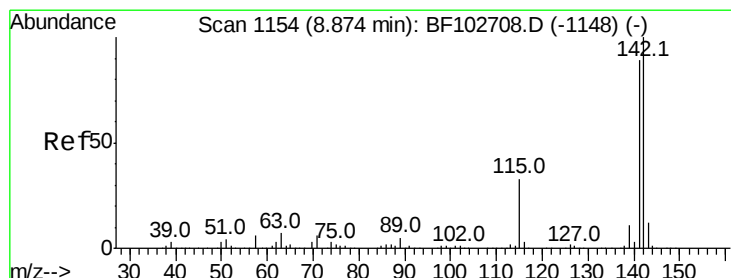
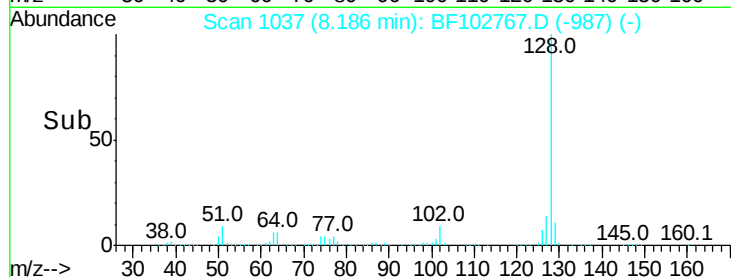
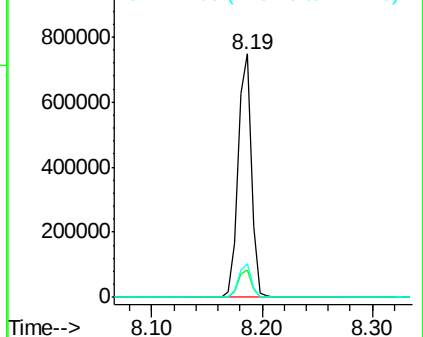


Abundance

Ion 128.00 (127.70 to 128.70): E

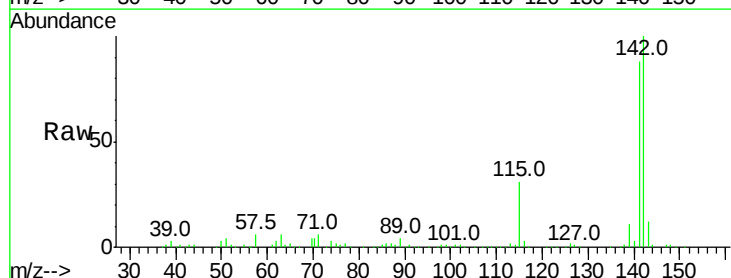
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37
2-Methylnaphthalene
Concen: 6.061 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.8	106.2
115	30.7	26.1	39.1

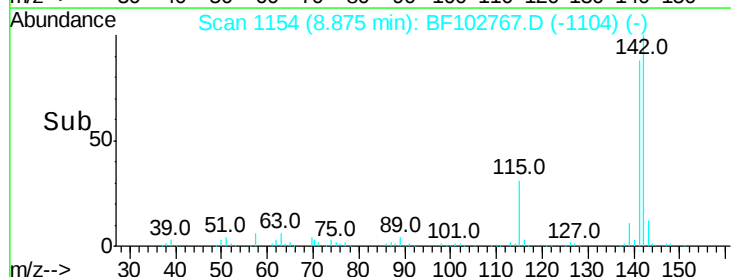
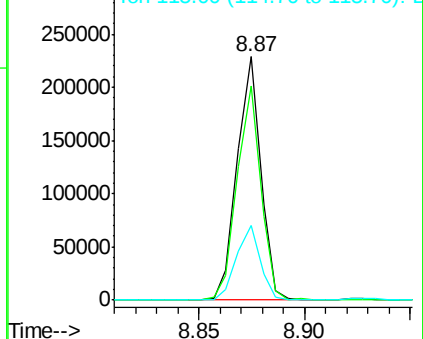


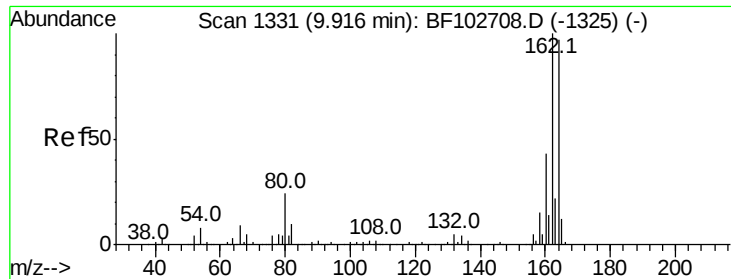
Abundance

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





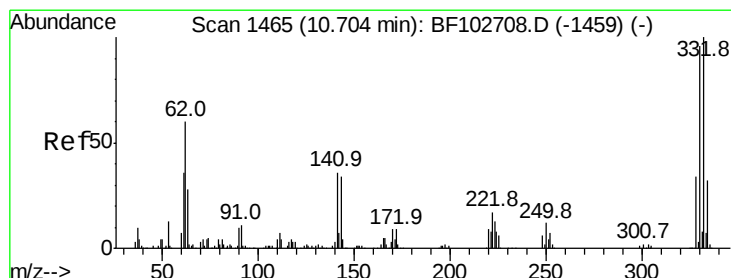
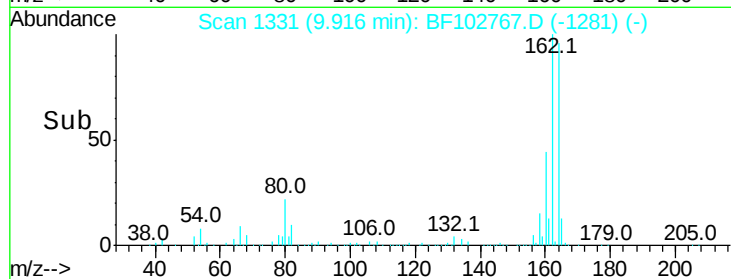
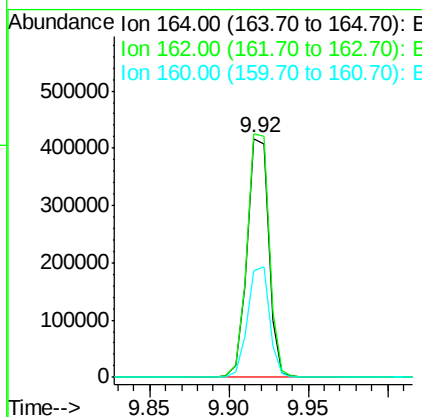
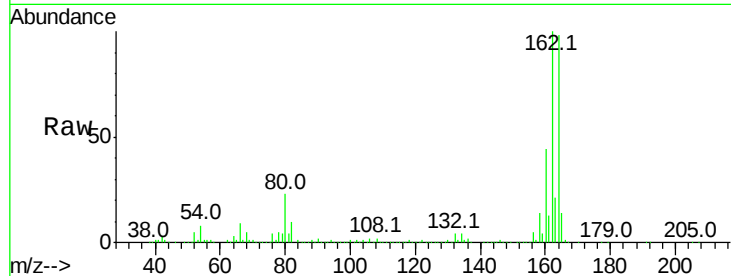
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Resp	Lower	Upper
164	100	395198		
162	101.8	86.1	129.1	
160	44.6	38.3	57.5	

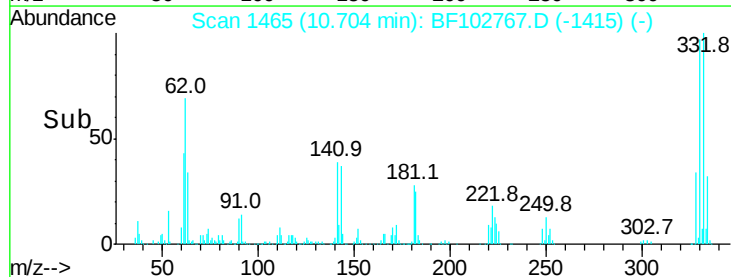
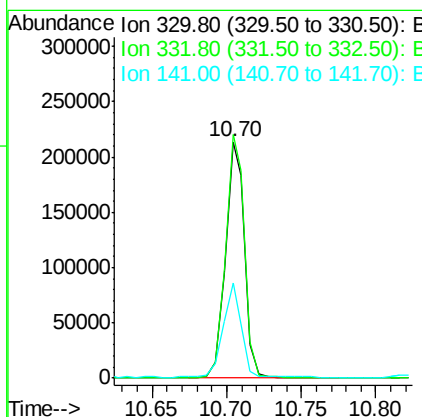
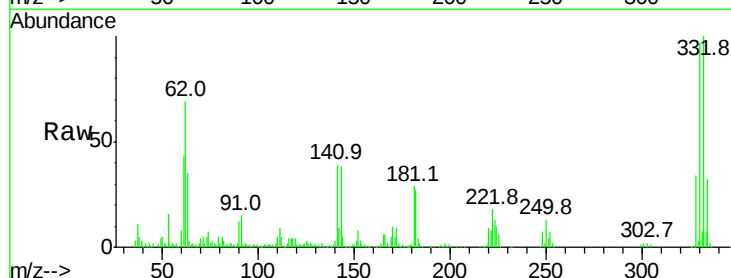
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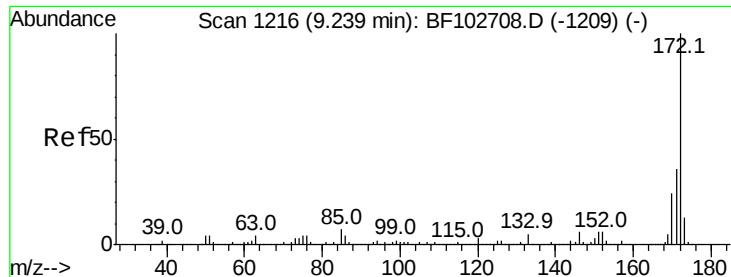
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#41
2,4,6-Tribromophenol
Concen: 60.486 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	192398		
332	103.2	77.0	115.6	
141	37.8	29.9	44.9	





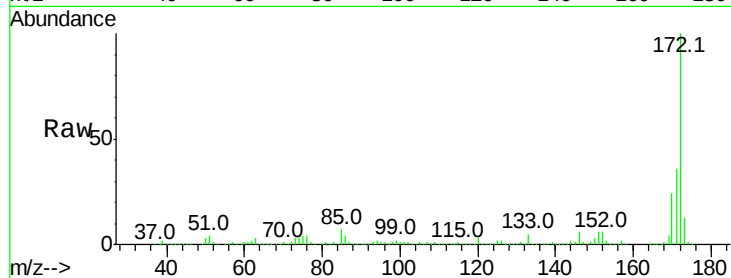
#44
2-Fluorobiphenyl
Concen: 54.409 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

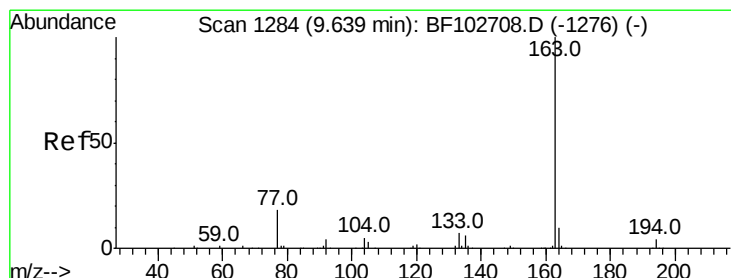
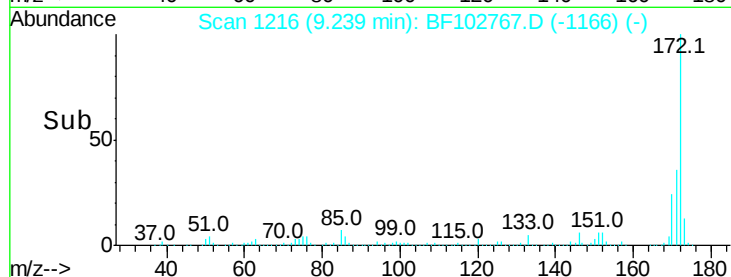
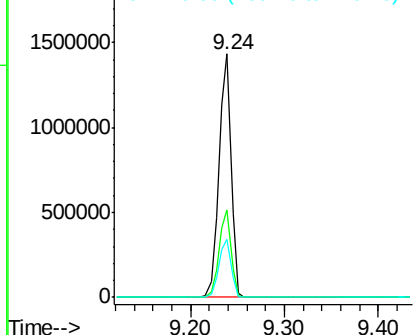
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.7	44.5
170	23.9	19.6	29.4

Manual Integrations
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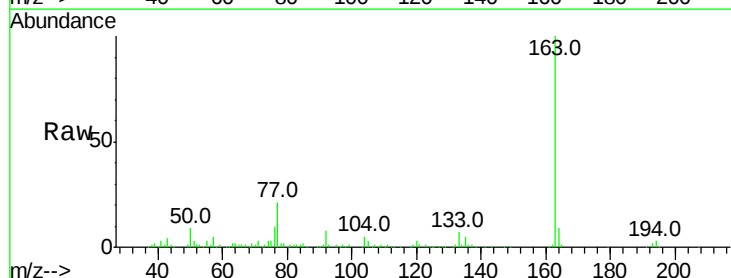


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

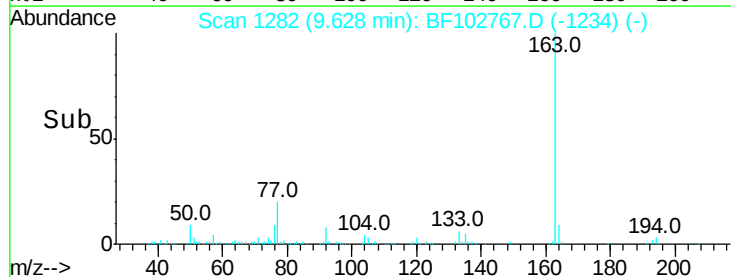
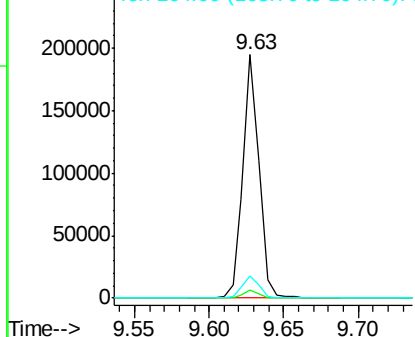


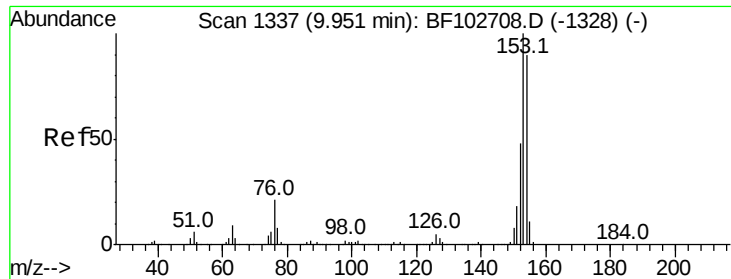
#49
Dimethylphthalate
Concen: 4.754 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.02 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.7	4.1
164	9.0	8.2	12.2



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





#51

Acenaphthene

Concen: 10.617 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Instrument :

BNA_F

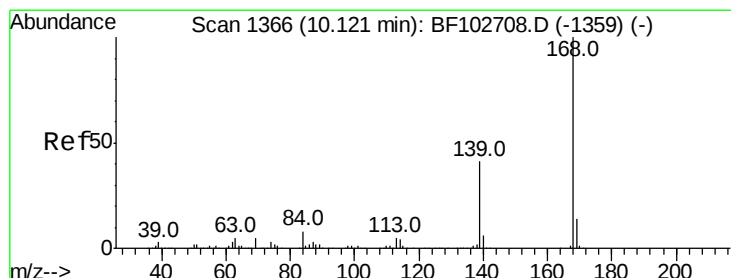
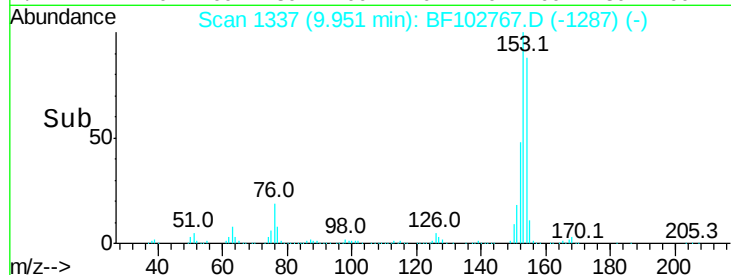
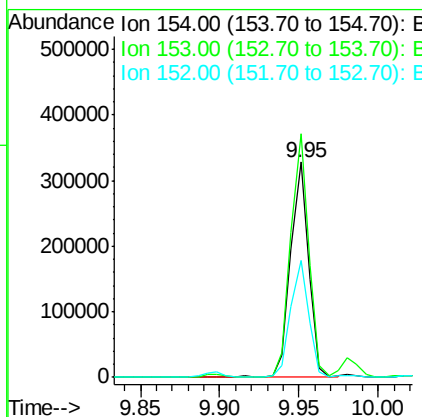
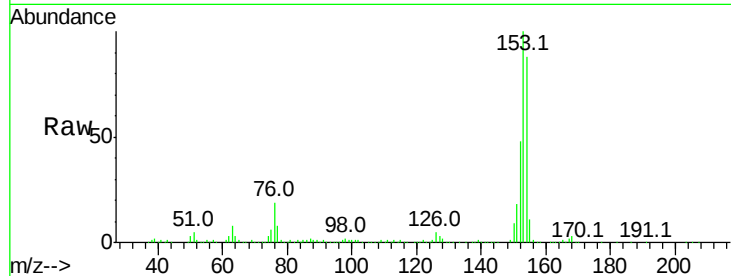
ClientSampleId :

8-SAN-7-EW(2-4)

Tot Ion:	154	Resp:	258434
Ion Ratio	Lower	Upper	
154	100		
153	113.3	91.2	136.8
152	54.3	43.8	65.8

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#54

Dibenzofuran

Concen: 7.437 ng

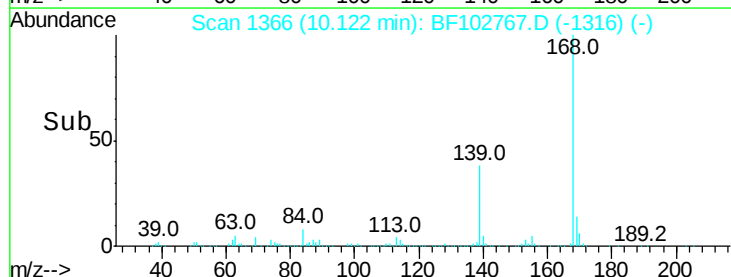
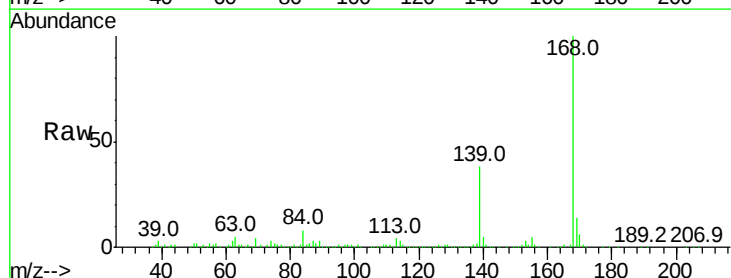
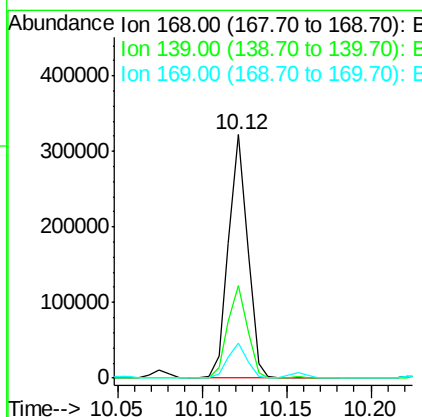
RT: 10.12 min Scan# 1366

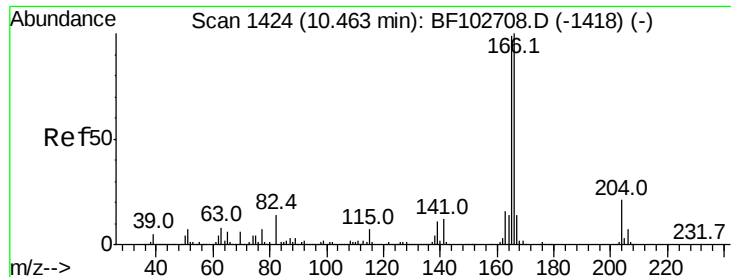
Delta R.T. -0.01 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Tgt Ion:	168	Resp:	255110
Ion Ratio	Lower	Upper	
168	100		
139	37.9	30.1	45.1
169	14.3	10.9	16.3





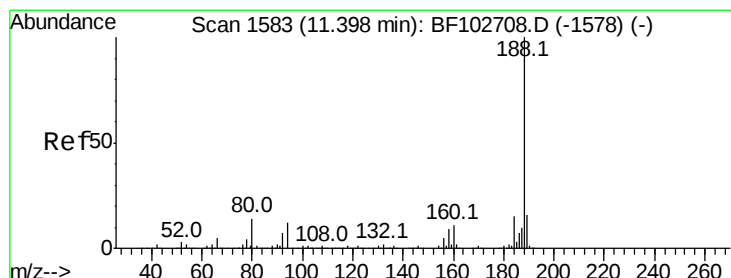
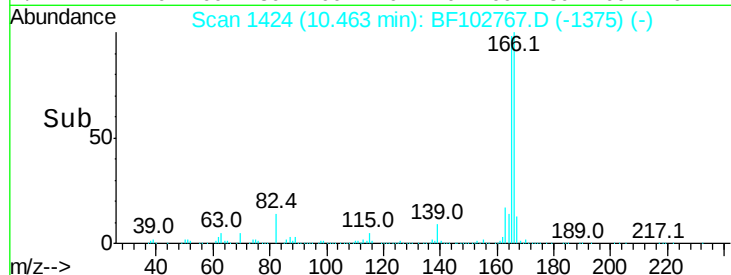
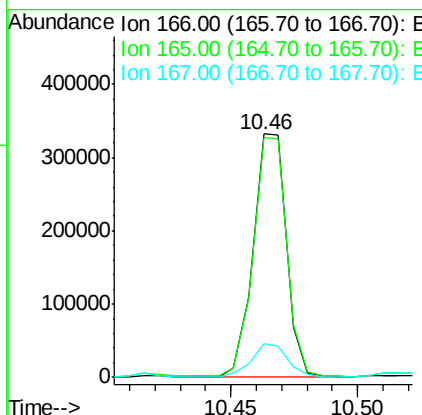
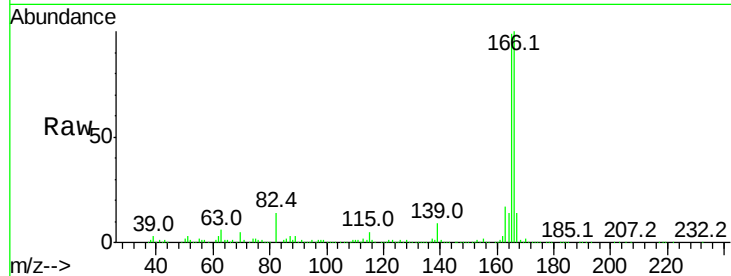
#57
Fluorene
 Concen: 12.121 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF102767.D
 Acq: 6 Feb 2018 5:18

Instrument :
 BNA_F
 ClientSampleId :
 8-SAN-7-EW(2-4)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	302515		
165	98.5	79.8	119.8	
167	13.7	10.6	16.0	

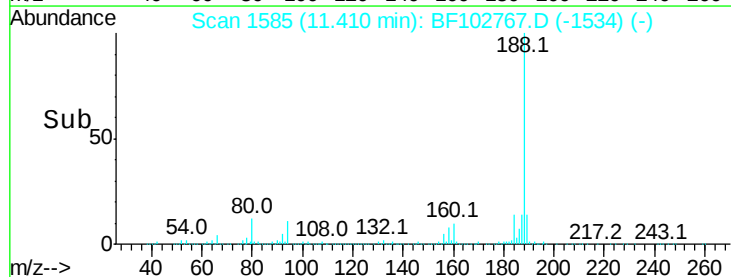
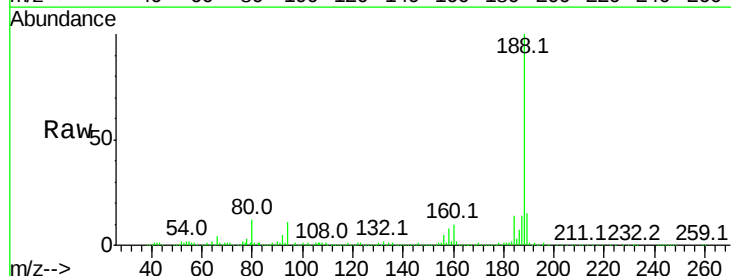
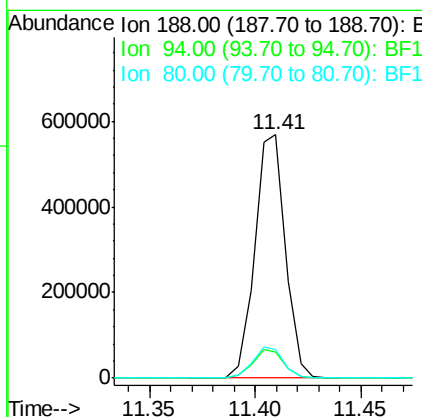
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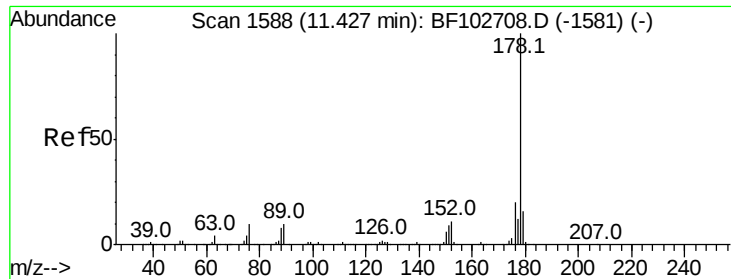
Sohil
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: BF102767.D
 Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	571168		
94	10.8	8.5	12.7	
80	11.6	9.2	13.8	





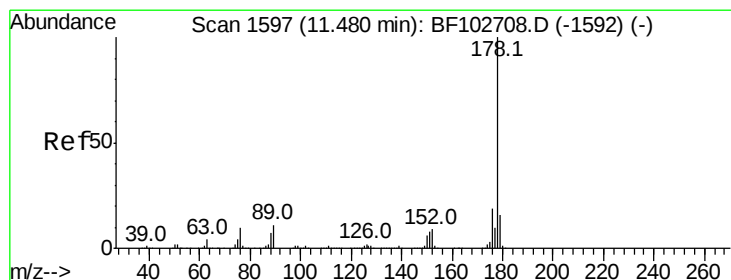
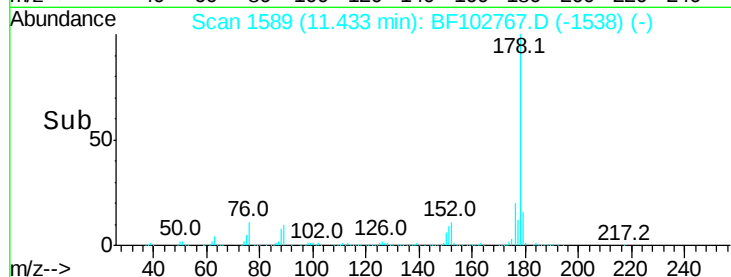
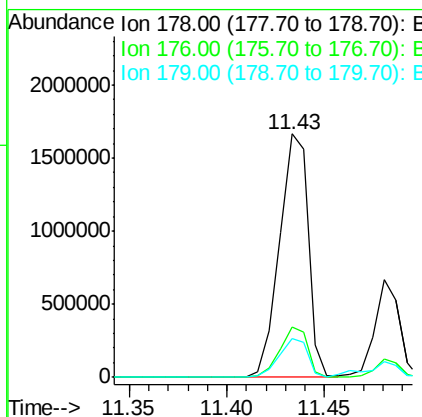
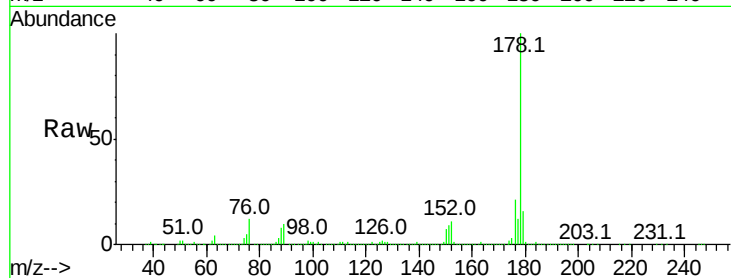
#70
Phenanthrene
Concen: 53.479 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.8	23.8
179	16.1	13.0	19.6

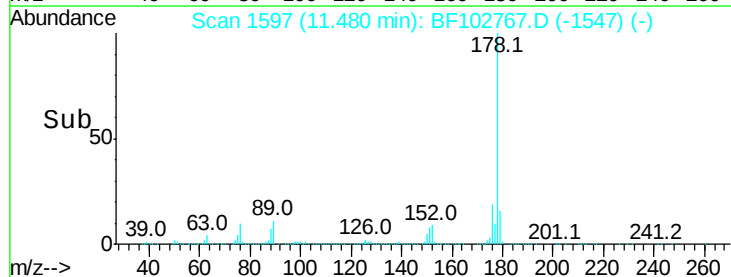
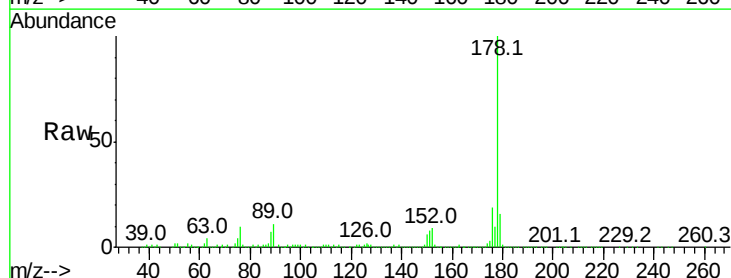
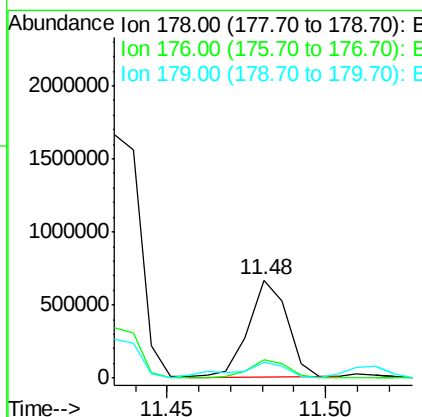
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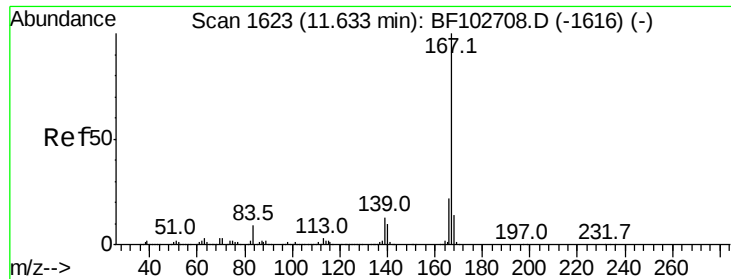
Sohil
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#71
Anthracene
Concen: 17.387 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.8	12.6	19.0





#72

Carbazole

Concen: 8.985 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Instrument :

BNA_F

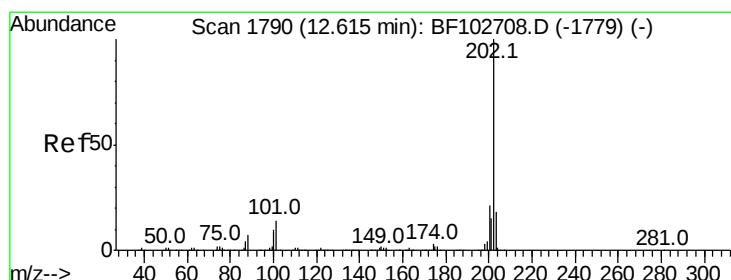
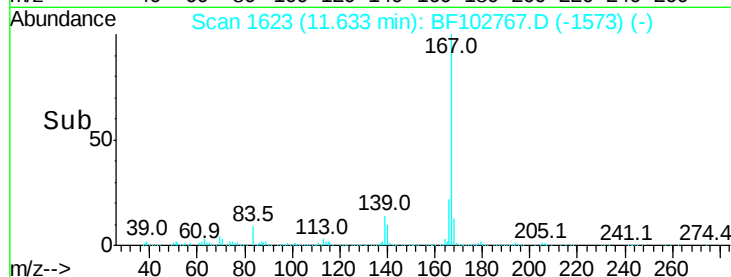
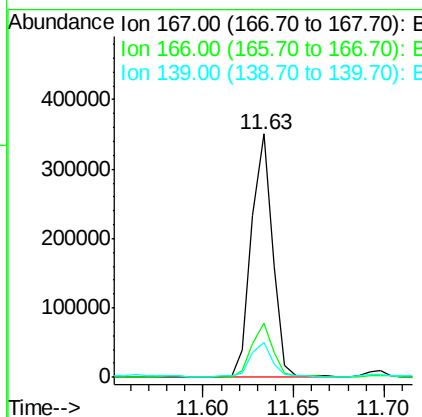
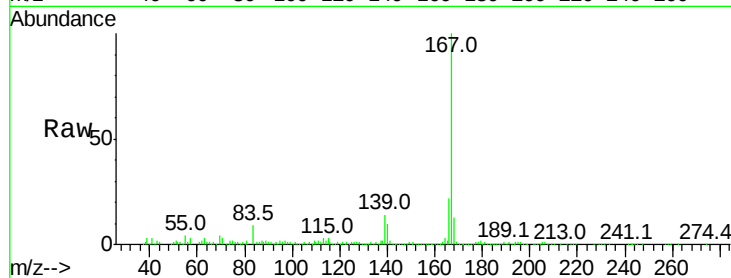
ClientSampleId :

8-SAN-7-EW(2-4)

Tot Ion:	167	Resp:	284812
Ion Ratio	Lower	Upper	
167	100		
166	22.2	17.6	26.4
139	14.1	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 44.688 ng

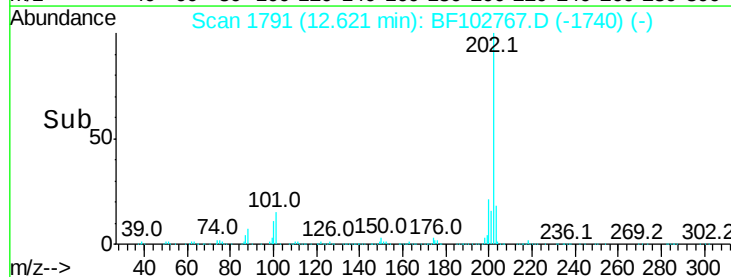
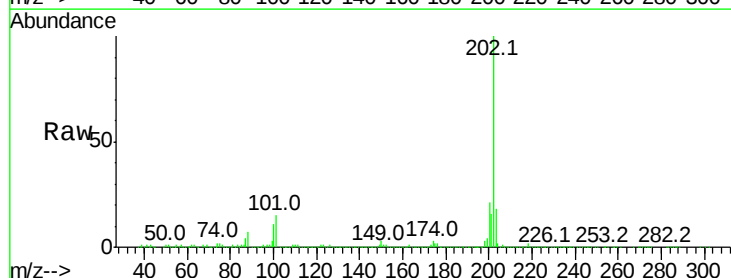
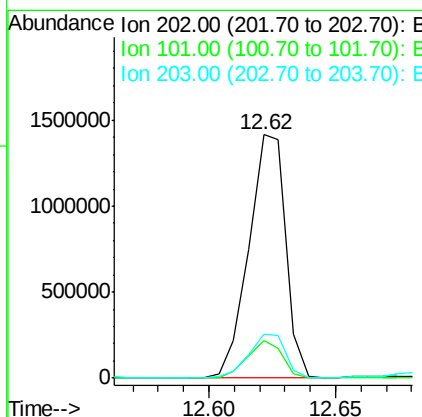
RT: 12.62 min Scan# 1791

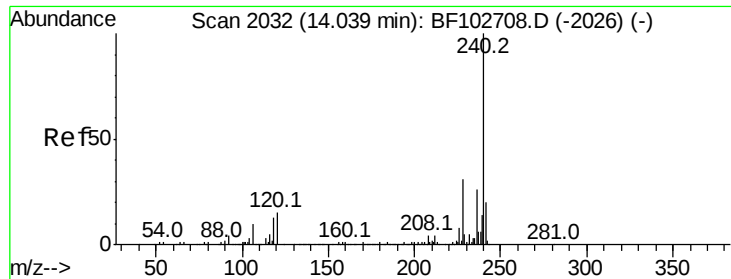
Delta R.T. 0.00 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Tgt Ion:	202	Resp:	1430229
Ion Ratio	Lower	Upper	
202	100		
101	15.3	0.0	34.1
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Instrument :

BNA_F

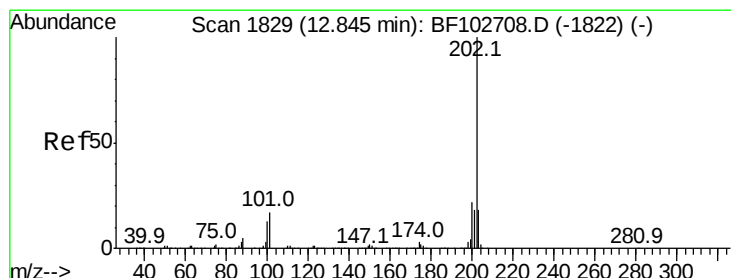
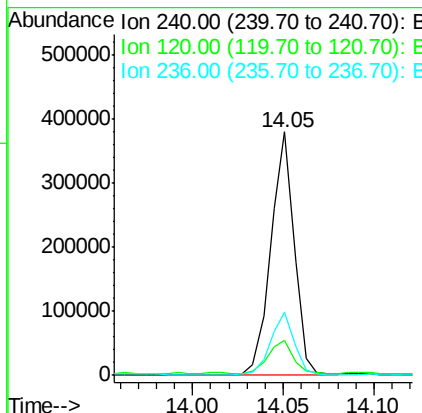
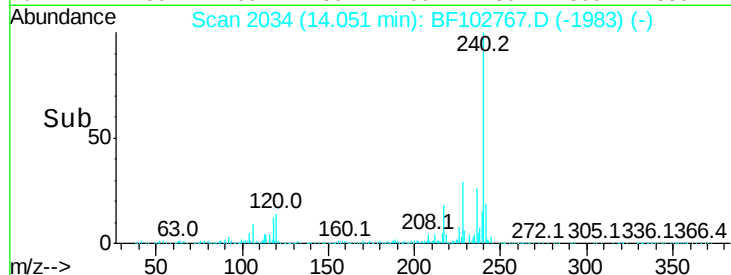
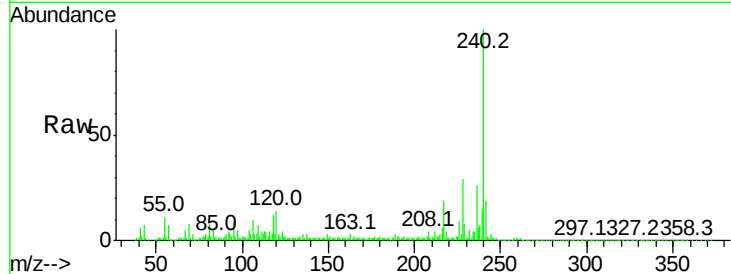
ClientSampleId :

8-SAN-7-EW(2-4)

Tot Ion:	240	Resp:	338511
Ion Ratio	Lower	Upper	
240	100		
120	14.4	9.5	14.3#
236	26.2	20.7	31.1

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#77

Pyrene

Concen: 46.006 ng

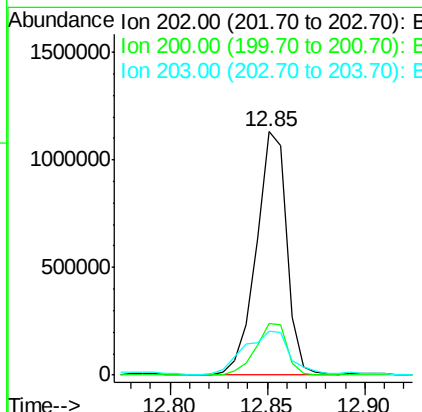
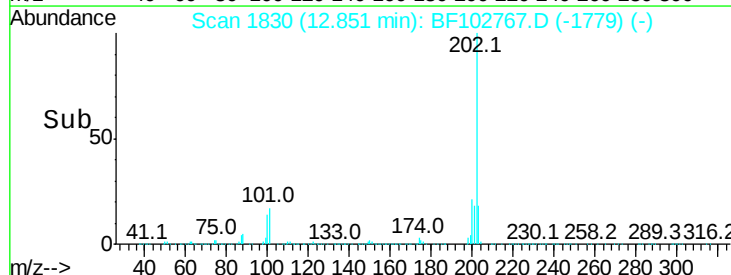
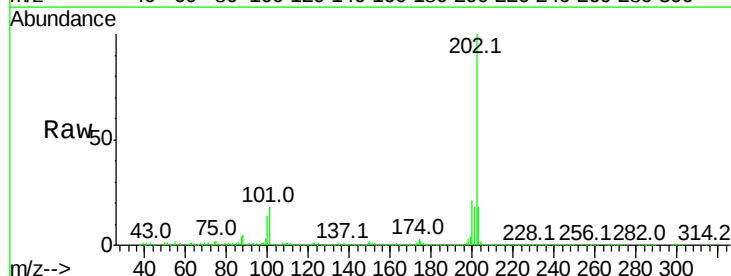
RT: 12.85 min Scan# 1830

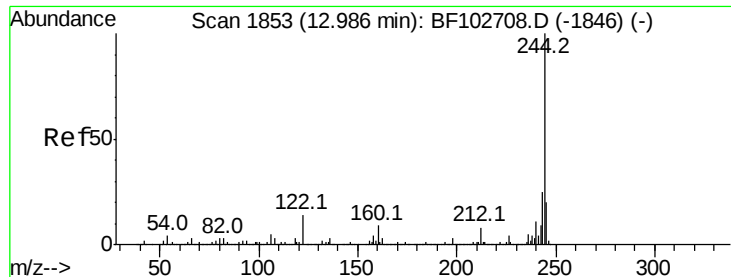
Delta R.T. 0.00 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Tgt Ion:	202	Resp:	1221207
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.4	26.2
203	18.2	14.3	21.5





#78

Terphenyl-d14

Concen: 56.242 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Instrument :

BNA_F

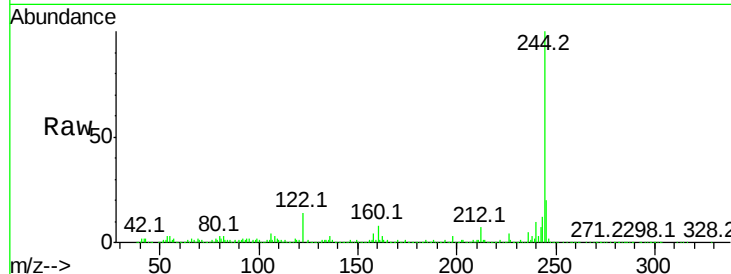
ClientSampleId :

8-SAN-7-EW(2-4)

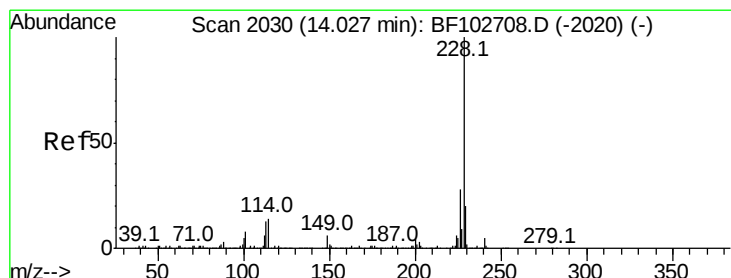
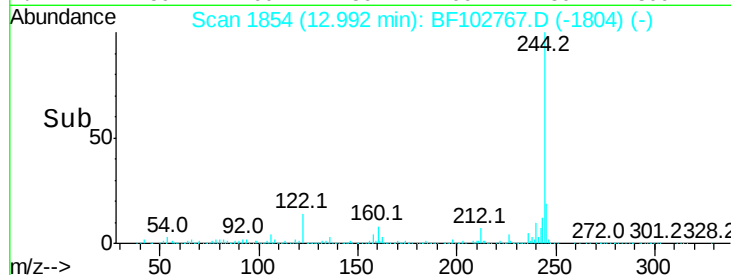
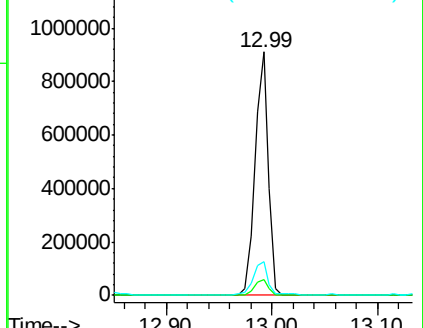
Tot Ion:	244	Resp:	804068
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.4	8.0
122	13.9	11.0	16.4

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



#80

Benzo(a)anthracene

Concen: 31.793 ng

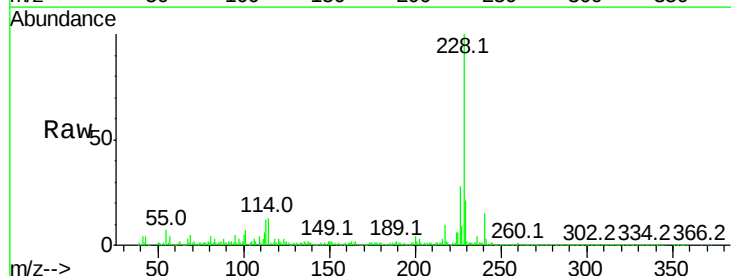
RT: 14.04 min Scan# 2032

Delta R.T. 0.00 min

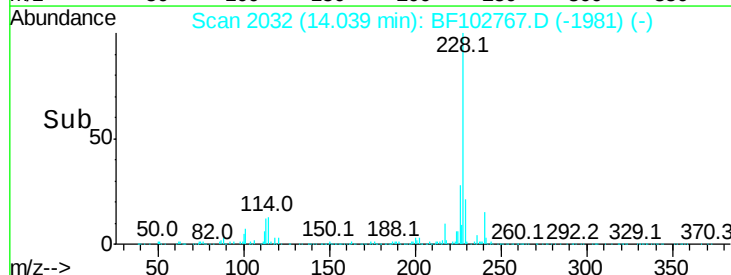
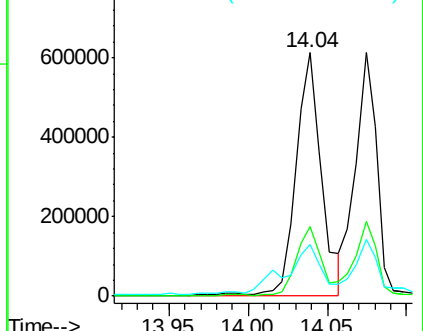
Lab File: BF102767.D

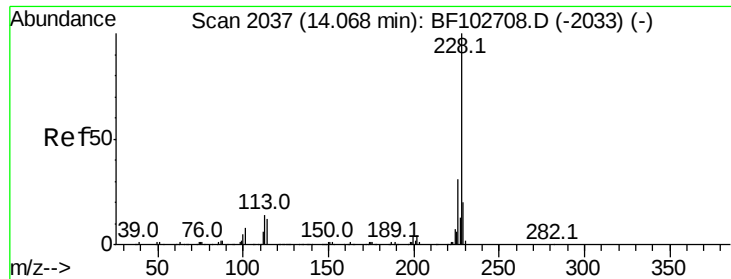
Acq: 6 Feb 2018 5:18

Tgt Ion:	228	Resp:	676850
Ion Ratio	Lower	Upper	
228	100		
226	28.5	22.6	33.8
229	21.3	15.8	23.6



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





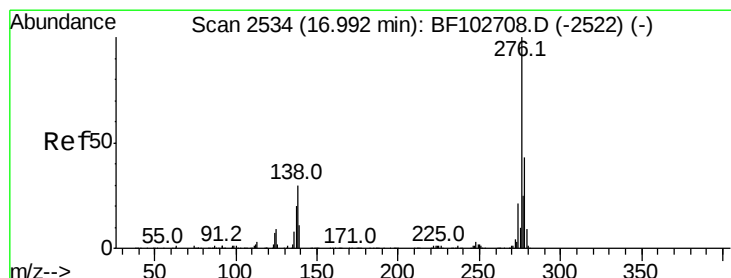
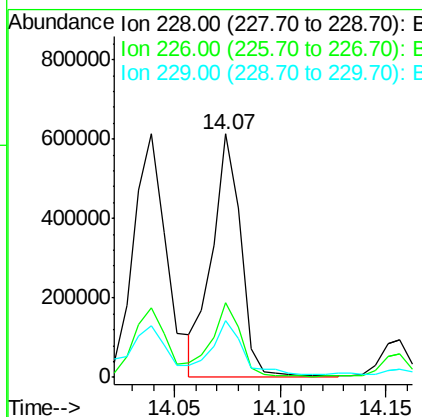
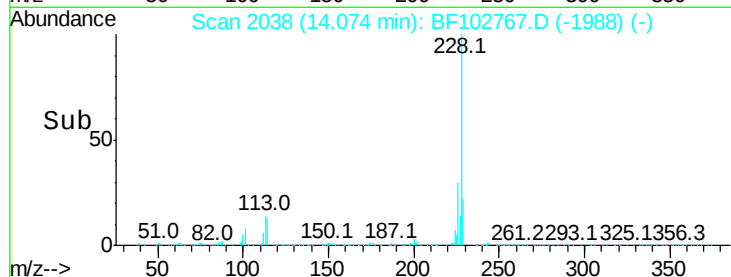
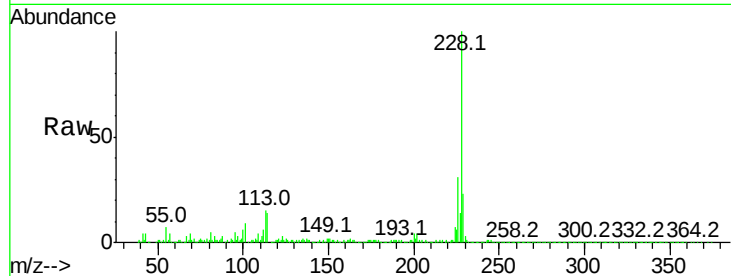
#82
Chrysene
Concen: 26.784 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	23.2	16.2	24.4

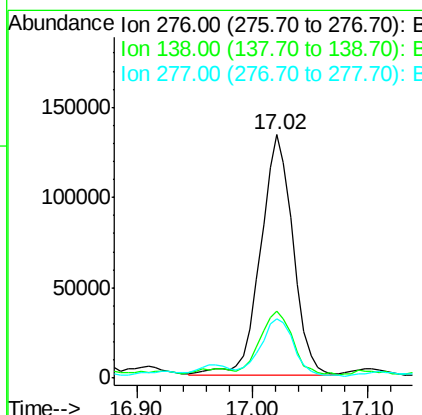
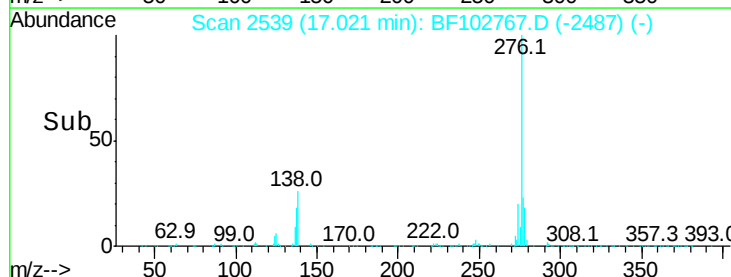
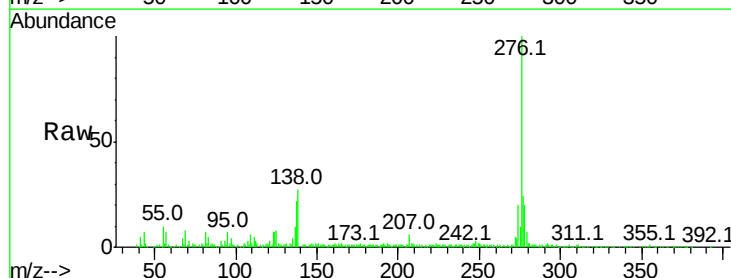
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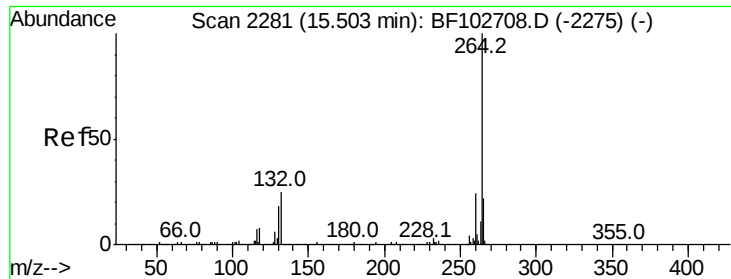
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 14.698 ng
RT: 17.02 min Scan# 2539
Delta R.T. 0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.3	25.0	37.6
277	24.2	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2286

Delta R.T. 0.01 min

Lab File: BF102767.D

Acq: 6 Feb 2018 5:18

Instrument :

BNA_F

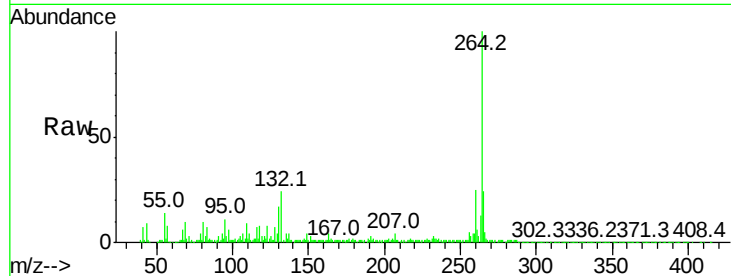
ClientSampleId :

8-SAN-7-EW(2-4)

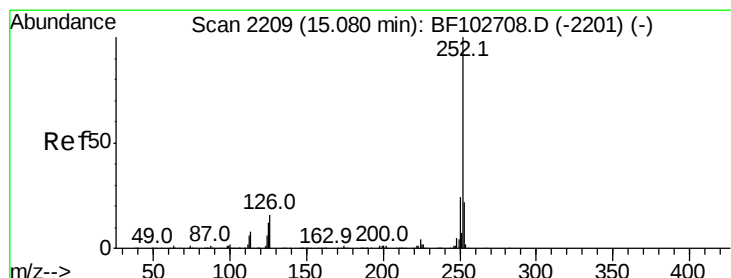
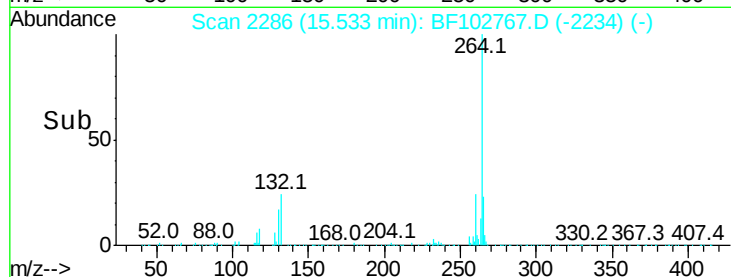
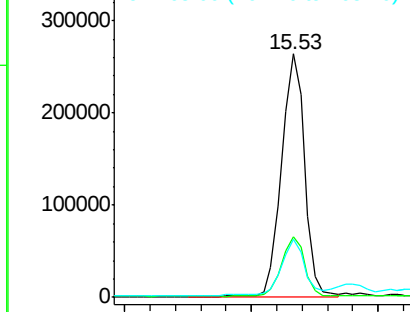
Tot Ion:	264	Resp:	334648
Ion Ratio	Lower	Upper	
264	100		
260	25.0	19.2	28.8
265	24.0	17.5	26.3

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 32.602 ng m

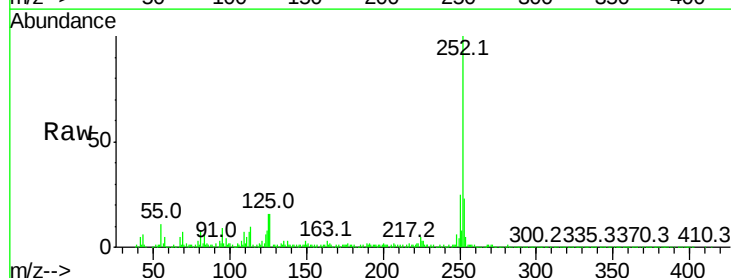
RT: 15.10 min Scan# 2212

Delta R.T. 0.01 min

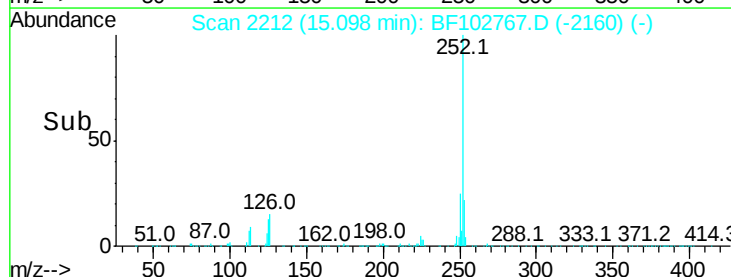
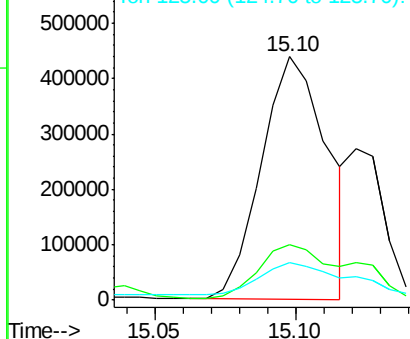
Lab File: BF102767.D

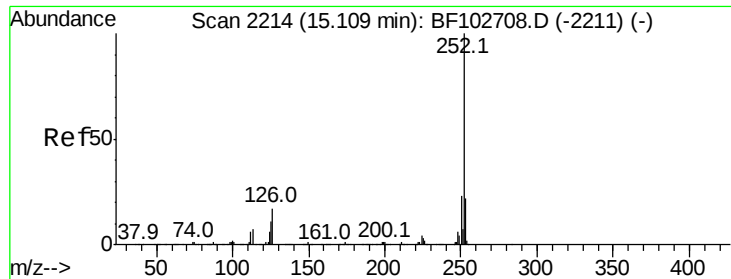
Acq: 6 Feb 2018 5:18

Tgt Ion:	252	Resp:	707345
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.0	25.6
125	15.5	9.0	13.6#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





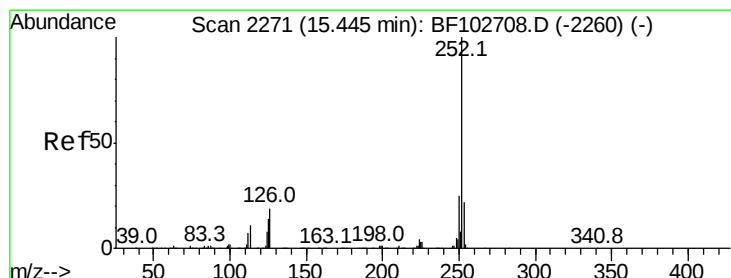
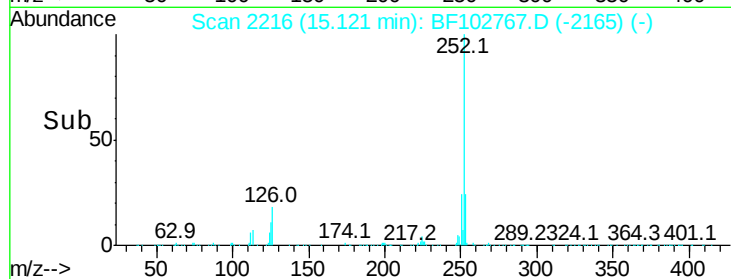
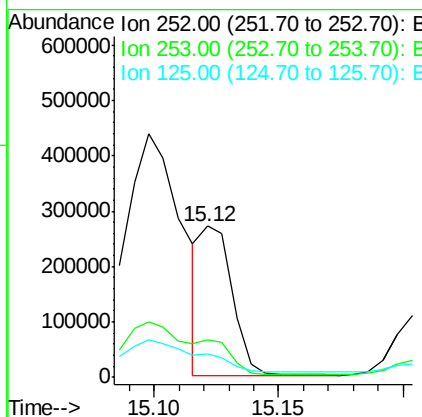
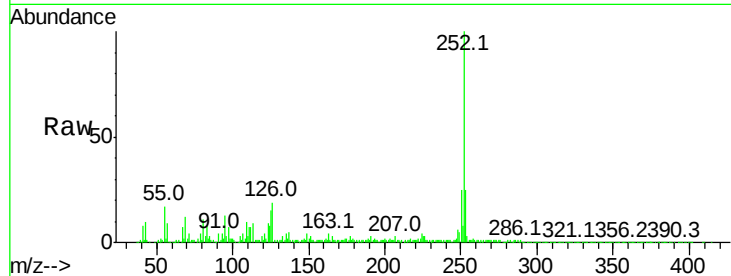
#88
Benzo(k)fluoranthene
Concen: 11.441 ng
RT: 15.12 min Scan# 2216
Delta R.T. 0.00 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	25.1	17.9	26.9
125	15.1	10.2	15.2

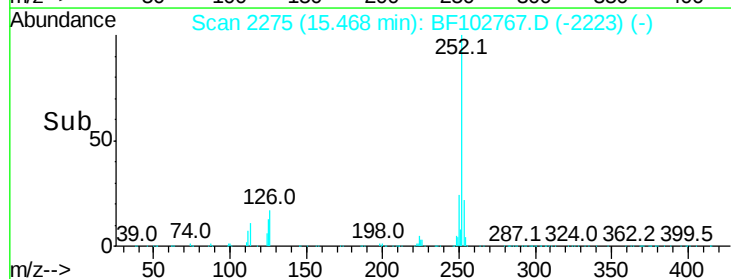
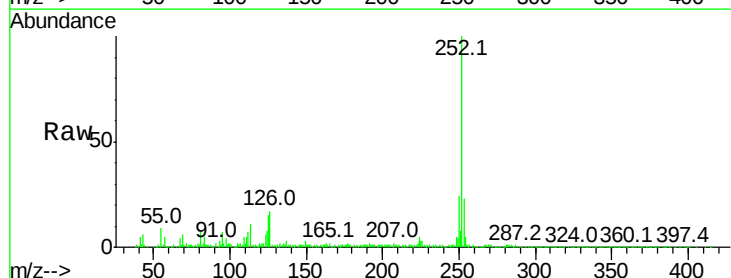
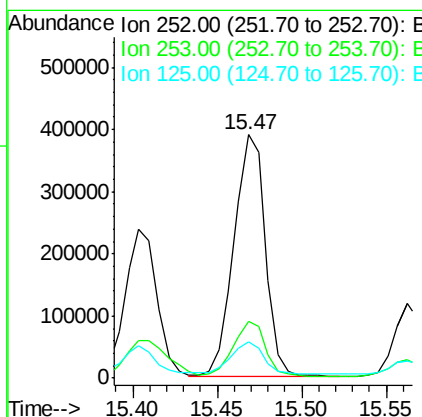
Manual Integrations
APPROVED

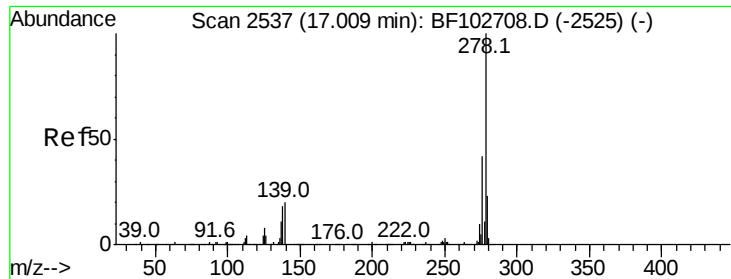
Sohil
2/6/2018 2:26:22 PM



#89
Benzo(a)pyrene
Concen: 25.853 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.3	17.1	25.7
125	15.0	9.8	14.6





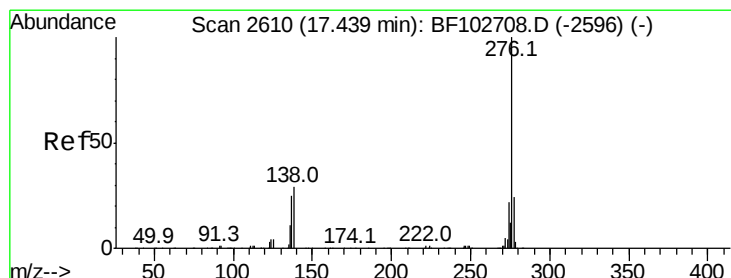
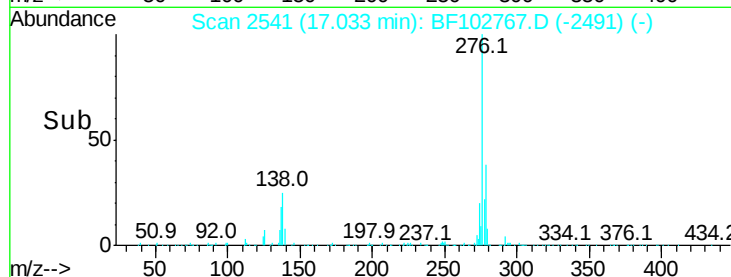
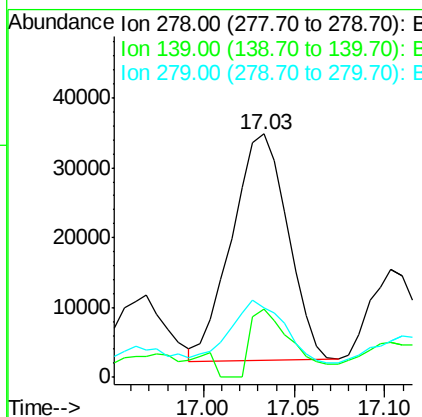
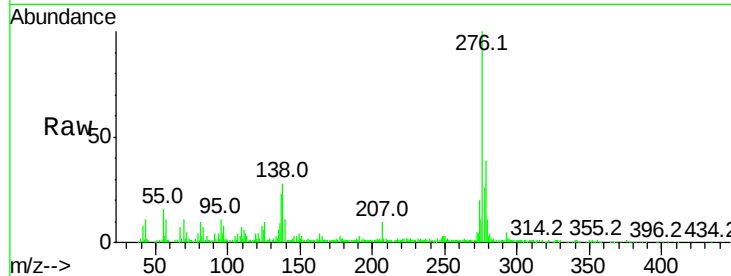
#90
Dibenzo(a,h)anthracene
Concen: 4.374 ng
RT: 17.03 min Scan# 2541
Delta R.T. -0.01 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Instrument :
BNA_F
ClientSampleId :
8-SAN-7-EW(2-4)

Tot Ion	Ratio	Lower	Upper
278	100		
139	28.0	15.9	23.9#
279	28.3	19.0	28.4

Manual Integrations
APPROVED

Sohil
2/6/2018 2:26:22 PM



#91
Benzo(g,h,i)perylene
Concen: 14.524 ng
RT: 17.47 min Scan# 2616
Delta R.T. 0.00 min
Lab File: BF102767.D
Acq: 6 Feb 2018 5:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	27.7	21.8	32.8

