

Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
 Data File : BF102424.D
 Acq On : 25 Jan 2018 14:19
 Operator : SJ/JU
 Sample : J1308-01 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8

Manual Integrations
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Sohil
 1/25/2018 5:42:18 PM

Quant Time: Jan 25 15:49:57 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 25 13:44:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	121340	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	470069	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	192076	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	280707	20.00	ng	0.00
75) Chrysene-d12	13.89	240	203994	20.00	ng	0.00
86) Perylene-d12	15.32	264	235143	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	38747	4.84	ng	0.00
7) Phenol-d6	6.36	99	47618	4.94	ng	-0.01
23) Nitrobenzene-d5	7.28	82	27879	3.41	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	6217	3.27	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	52362	4.01	ng	0.00
78) Terphenyl-d14	12.82	244	35202	3.89	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.04	128	5112982	217.853	ng	98
37) 2-Methylnaphthalene	8.72	142	555200	35.521	ng	98
45) 1,1'-Biphenyl	9.17	154	232598	13.543	ng	98
48) Acenaphthylene	9.62	152	915116	44.000	ng	100
51) Acenaphthene	9.79	154	819043	67.430	ng	99
54) Dibenzofuran	9.96	168	1036116	63.028	ng	99
57) Fluorene	10.31	166	1185250	90.990	ng	99
70) Phenanthrene	11.28	178	3233890	197.702	ng	99
71) Anthracene	11.33	178	1236680	74.071	ng	99
72) Carbazole	11.47	167	572489	35.148	ng	100
74) Fluoranthene	12.47	202	2326619	139.481	ng	99
77) Pylene	12.69	202	1842292	116.807	ng	100
80) Benzo(a)anthracene	13.87	228	1014154m	80.750	ng	
82) Chrysene	13.91	228	758001	59.433	ng	97
85) Indeno(1,2,3-cd)pyrene	16.71	276	370534	35.179	ng	95
87) Benzo(b)fluoranthene	14.91	252	963556m	63.222	ng	
88) Benzo(k)fluoranthene	14.93	252	416899m	28.953	ng	
89) Benzo(a)pyrene	15.26	252	791567	57.587	ng	# 95
90) Dibenzo(a,h)anthracene	16.72	278	101022m	9.073	ng	
91) Benzo(a,h,i)perylene	17.13	276	304467	27.694	ng	99

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

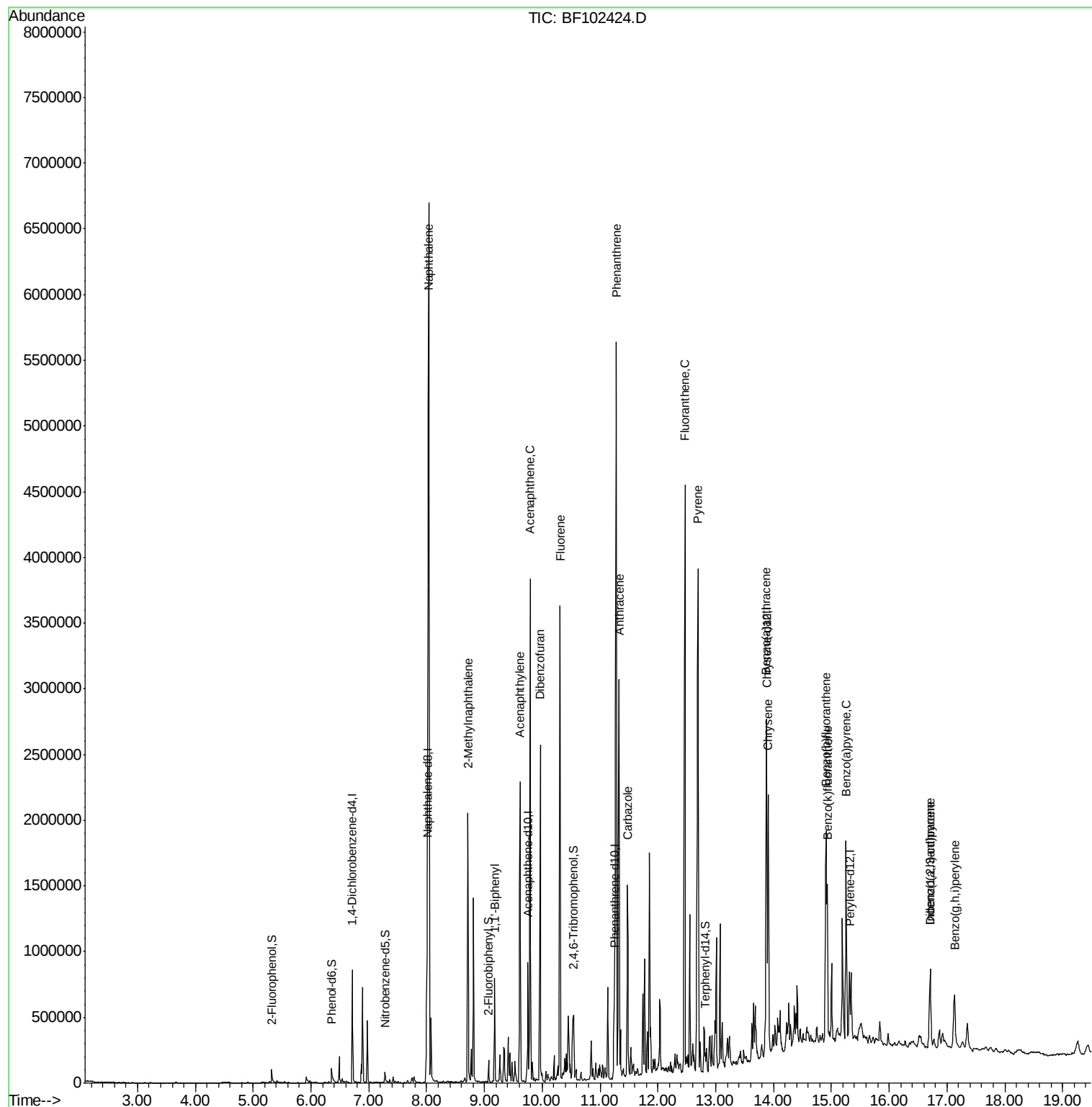
Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
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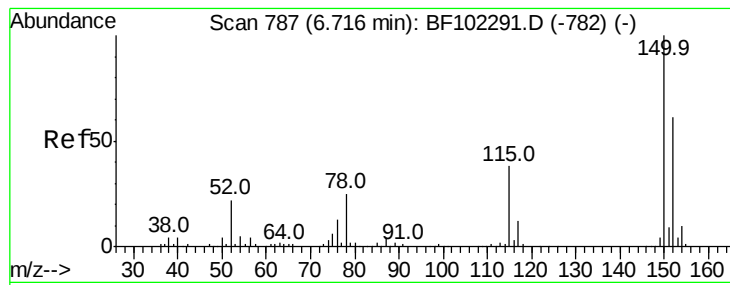
Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

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#1

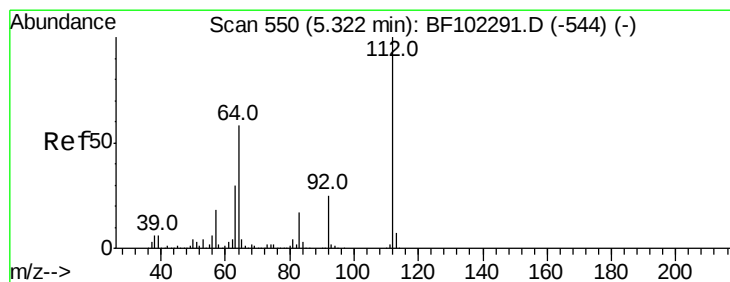
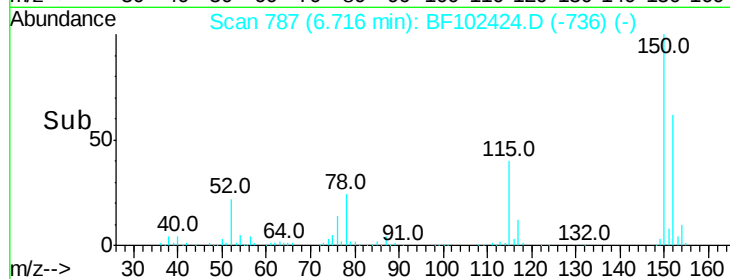
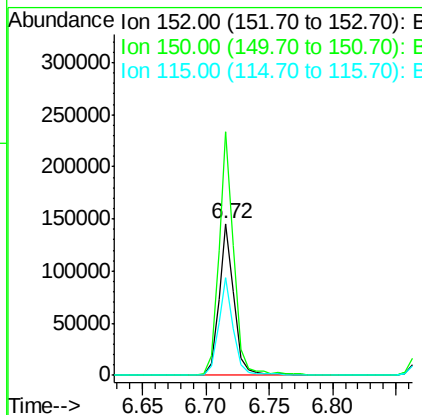
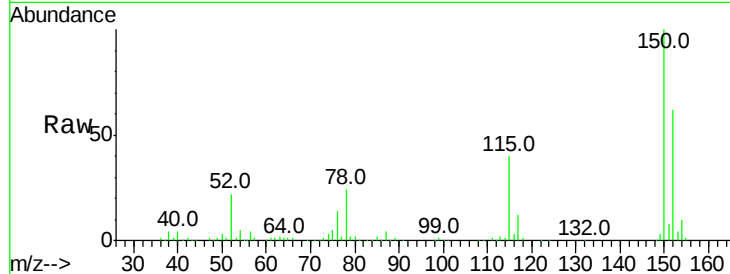
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. 0.00 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	124.6	186.8
115	64.6	50.1	75.1

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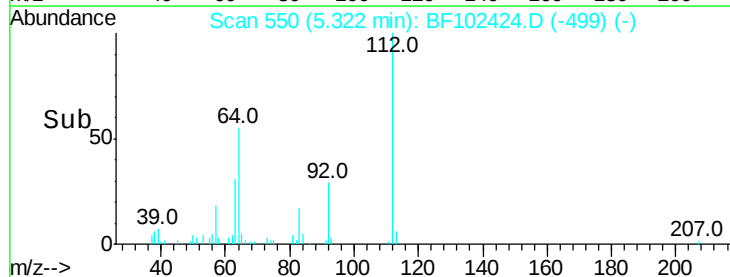
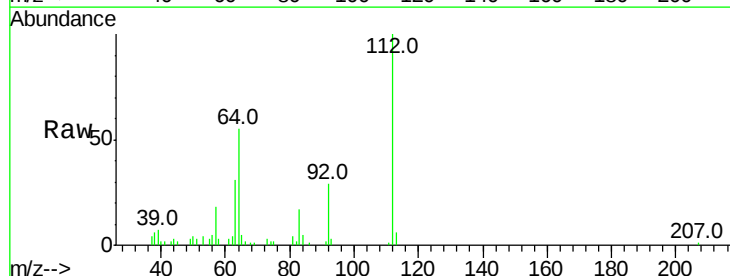
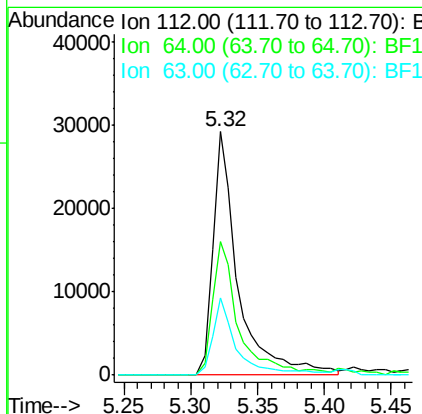
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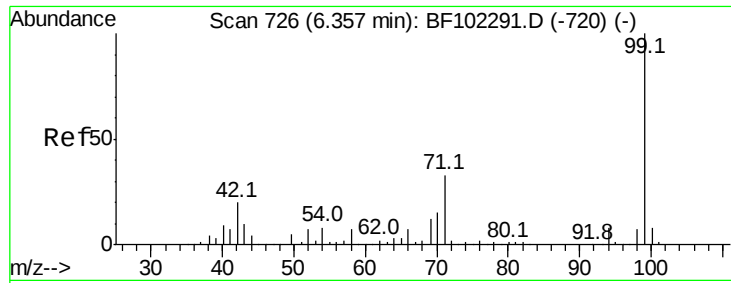


#5

2-Fluorophenol
Concen: 4.842 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.00 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	47.9	71.9
63	31.5	23.7	35.5





#7

Phenol-d6

Concen: 4.936 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Instrument :

BNA_F

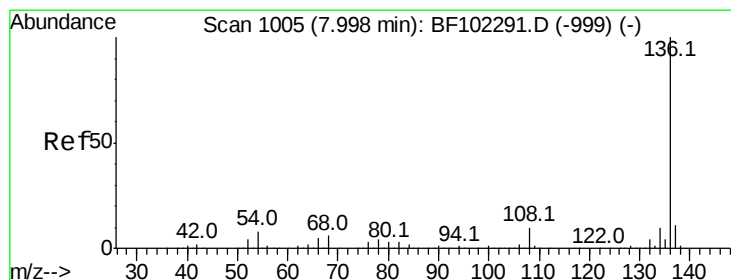
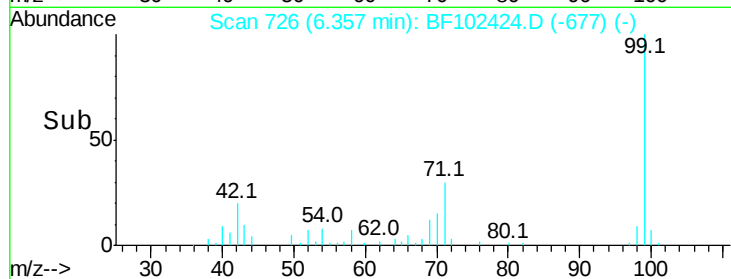
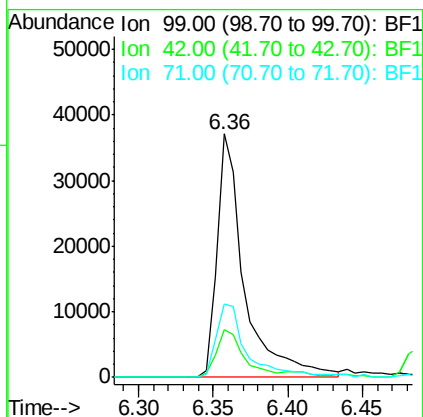
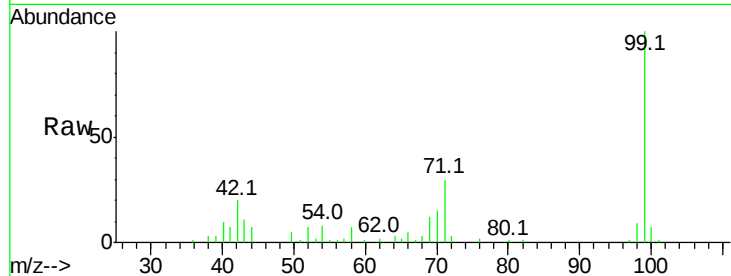
ClientSampleId :

A2-SB99-BOT-8

Tot Ion:	99	Resp:	47618
Ion Ratio	Lower	Upper	
99	100		
42	19.6	14.5	21.7
71	30.2	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

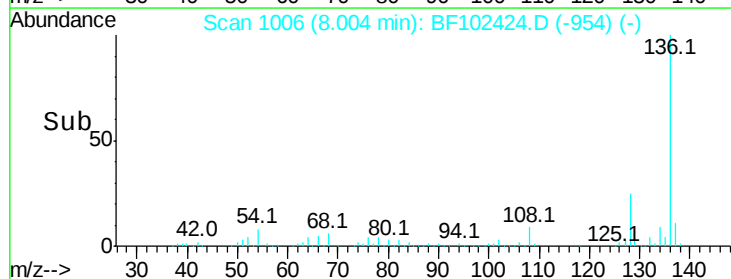
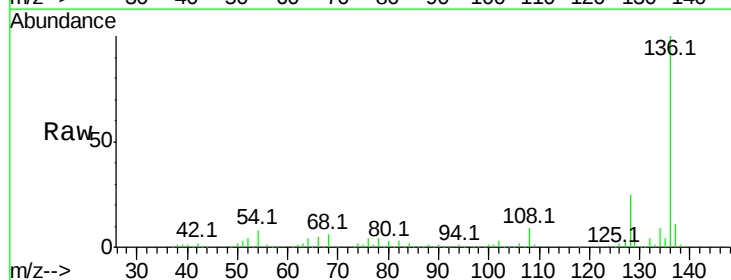
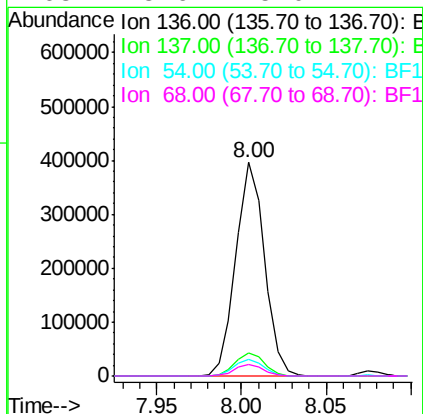
RT: 8.00 min Scan# 1006

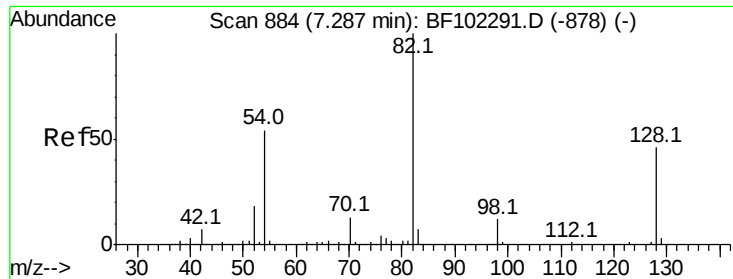
Delta R.T. 0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Tgt Ion:	136	Resp:	470069
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.9	13.3
54	7.6	6.6	9.8
68	5.6	5.0	7.4





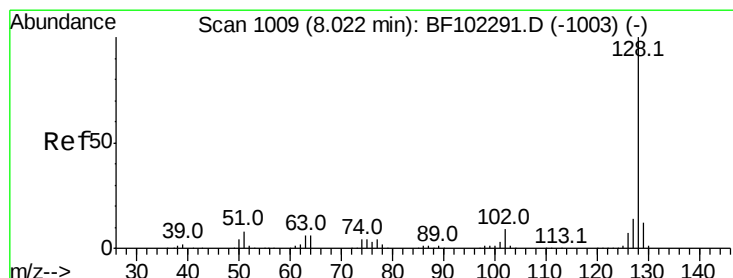
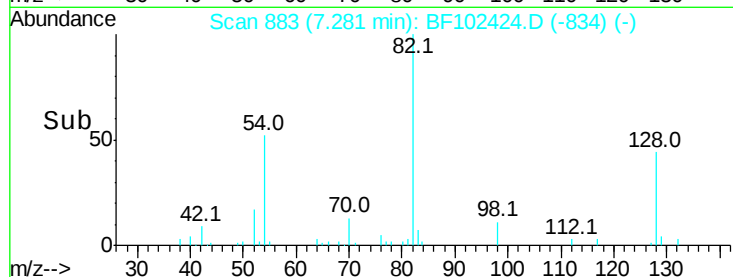
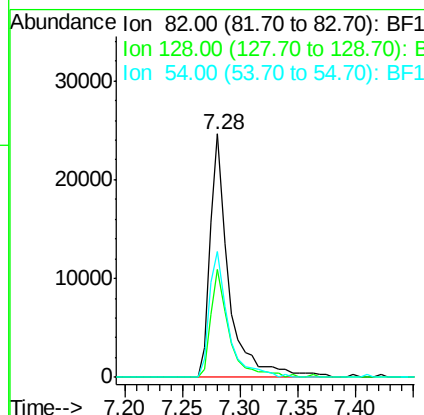
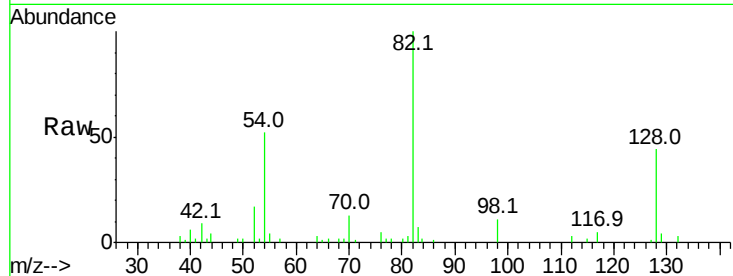
#23
 Nitrobenzene-d5
 Concen: 3.408 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.3	36.1	54.1
54	51.7	41.4	62.2

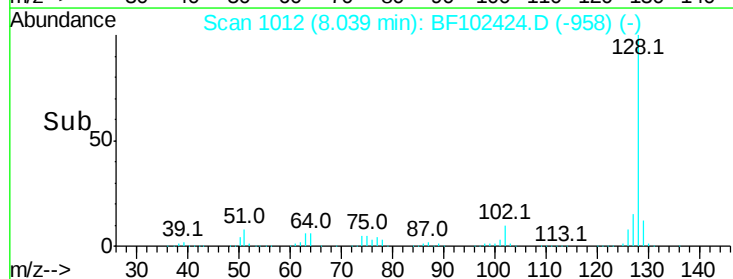
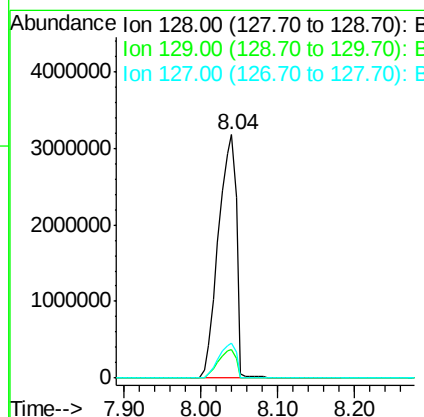
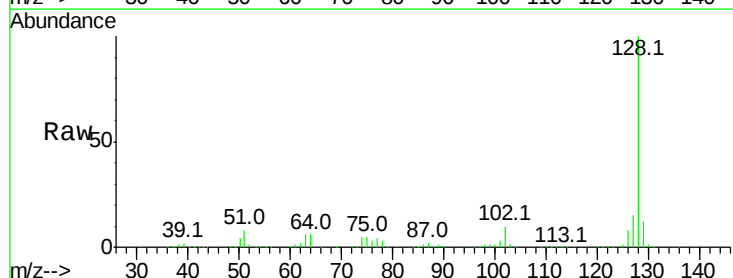
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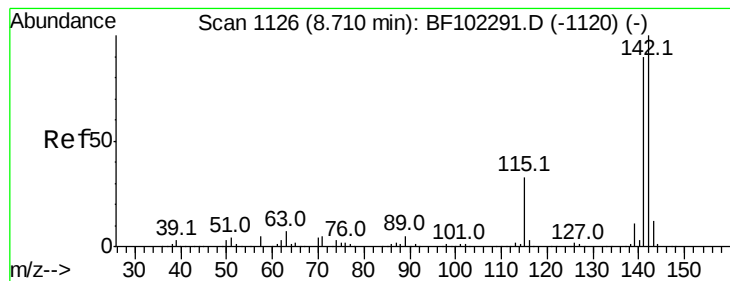
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#31
 Naphthalene
 Concen: 217.853 ng
 RT: 8.04 min Scan# 1012
 Delta R.T. 0.02 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	14.6	10.9	16.3





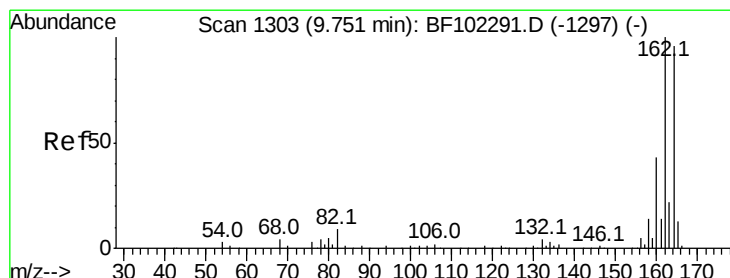
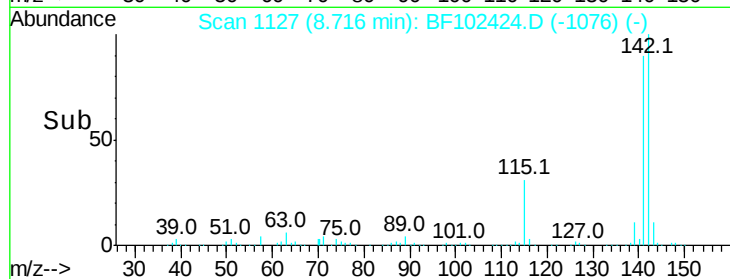
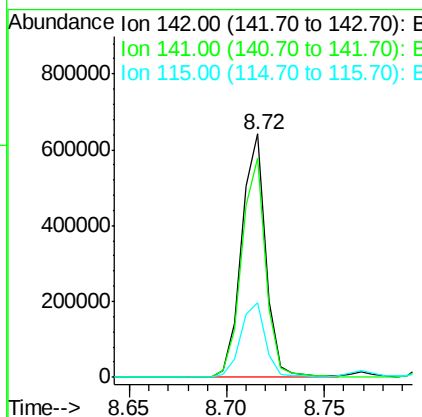
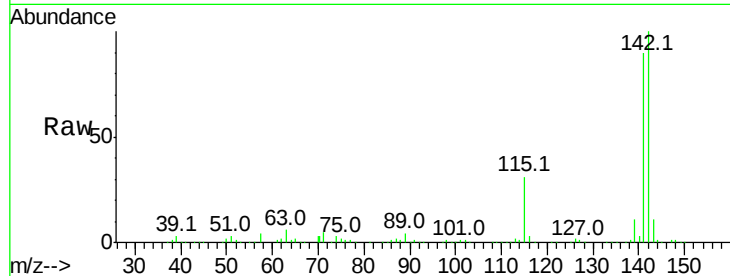
#37
2-Methylnaphthalene
Concen: 35.521 ng
RT: 8.72 min Scan# 1127
Delta R.T. 0.00 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.0	70.8	106.2
115	30.9	26.1	39.1

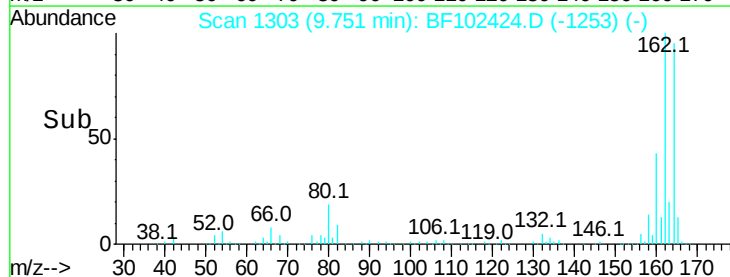
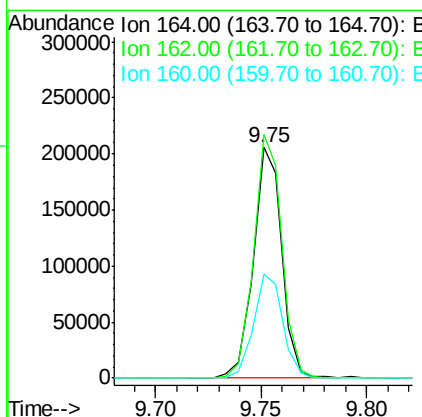
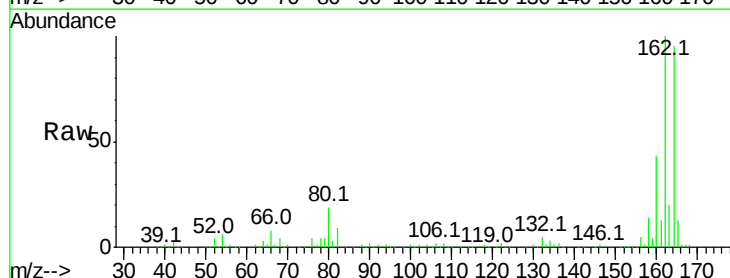
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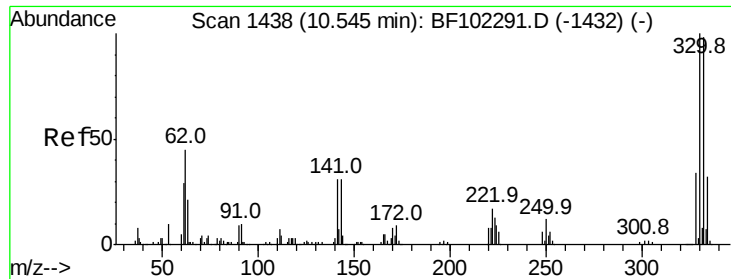
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.5	86.1	129.1
160	44.9	38.3	57.5





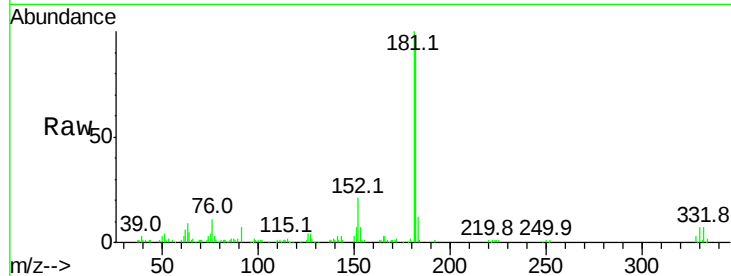
#41
 2,4,6-Tribromophenol
 Concen: 3.267 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. 0.00 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8

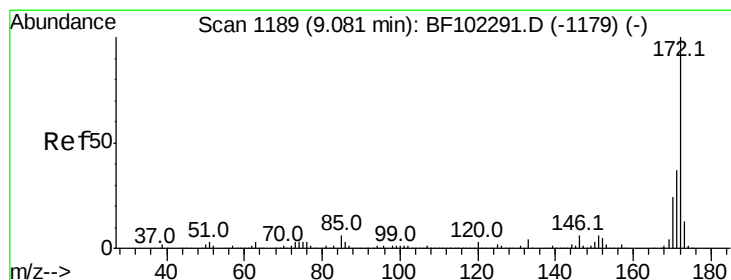
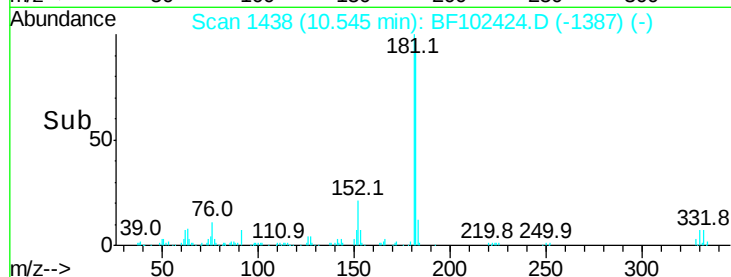
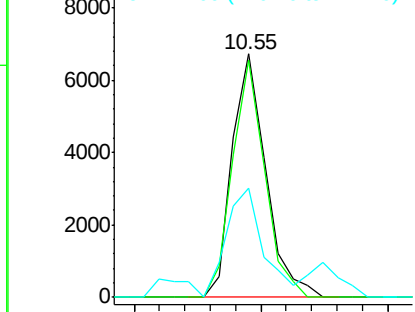
Tot Ion	Ratio	Lower	Upper
330	100		
332	93.3	77.0	115.6
141	49.2	29.9	44.9

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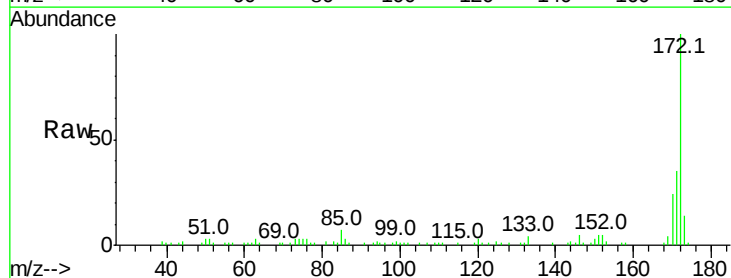


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

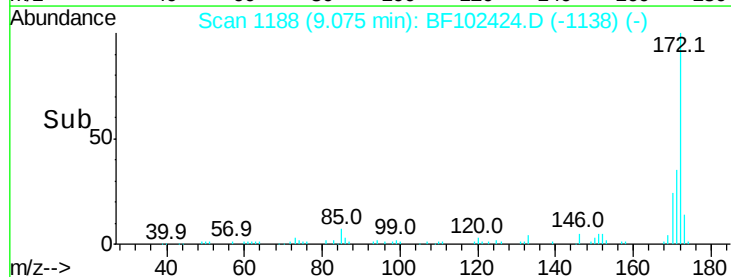
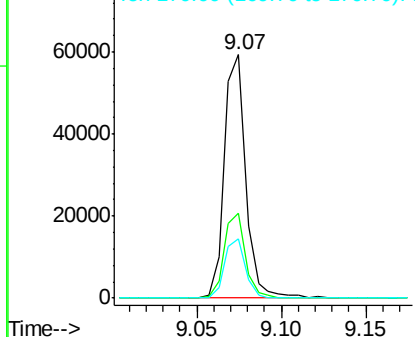


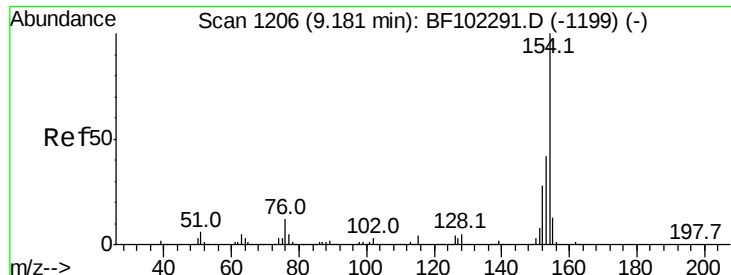
#44
 2-Fluorobiphenyl
 Concen: 4.008 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.7	44.5
170	24.2	19.6	29.4



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





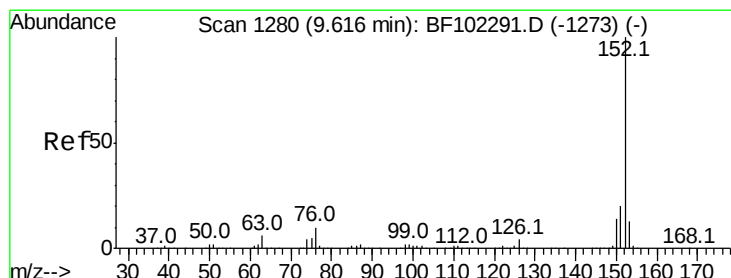
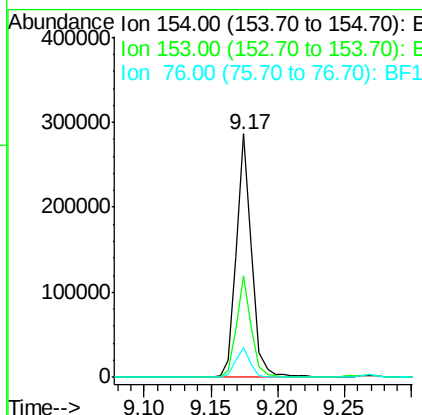
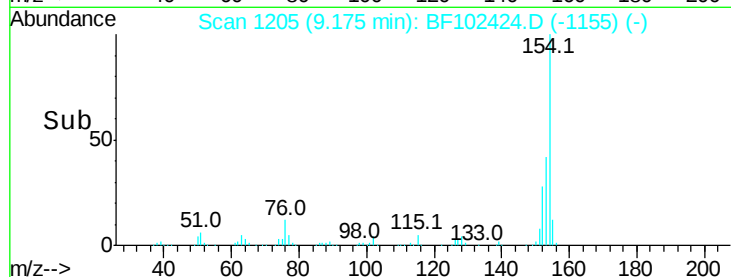
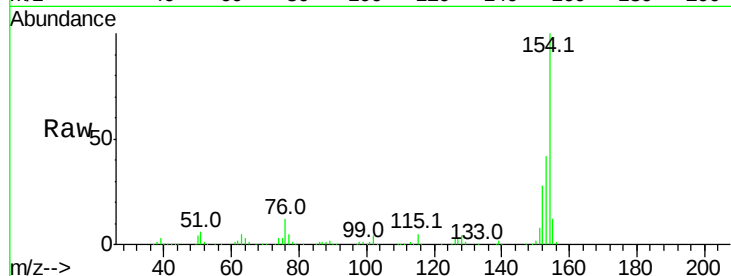
#45
 1,1'-Biphenyl
 Concen: 13.543 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.01 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	41.7	21.3	61.3	
76	12.2	0.0	34.0	

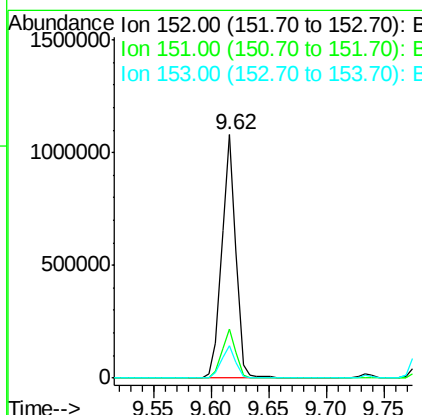
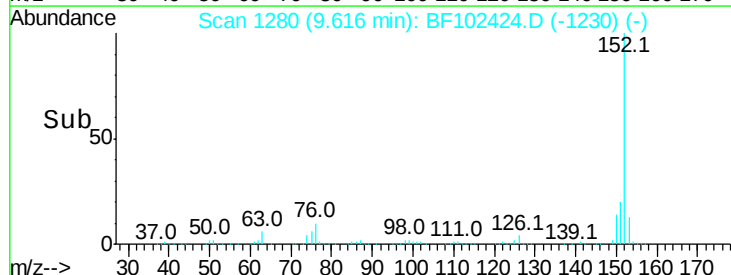
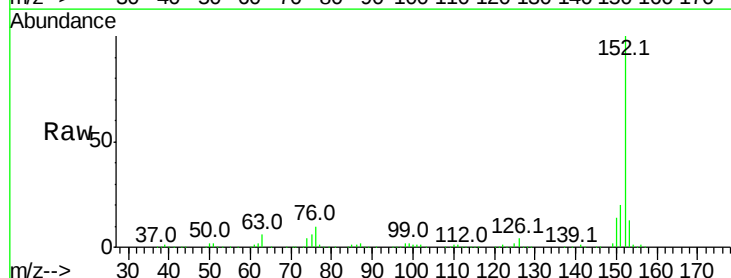
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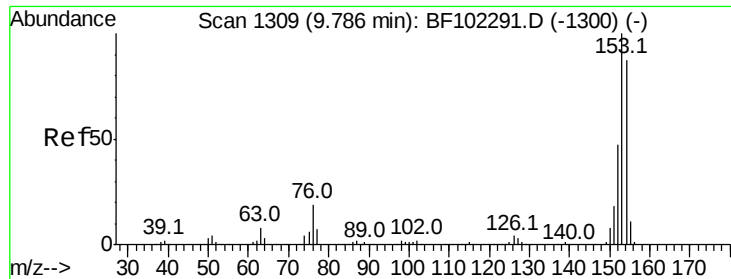
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#48
 Acenaphthylene
 Concen: 44.000 ng
 RT: 9.62 min Scan# 1280
 Delta R.T. -0.01 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	20.3	16.3	24.5	
153	13.4	10.7	16.1	





#51

Acenaphthene

Concen: 67.430 ng

RT: 9.79 min Scan# 1310

Delta R.T. 0.00 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Instrument :

BNA_F

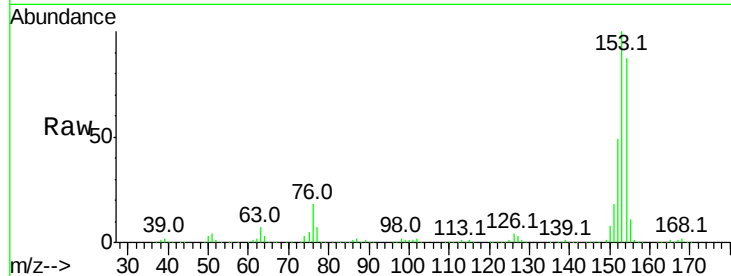
ClientSampleId :

A2-SB99-BOT-8

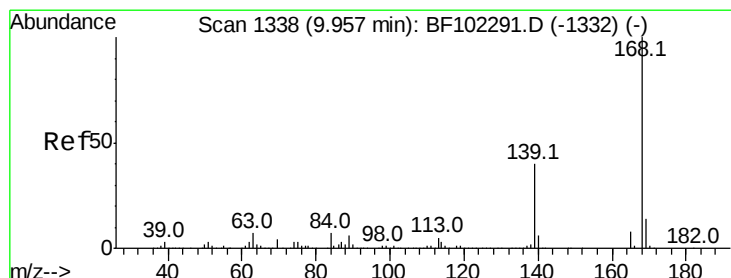
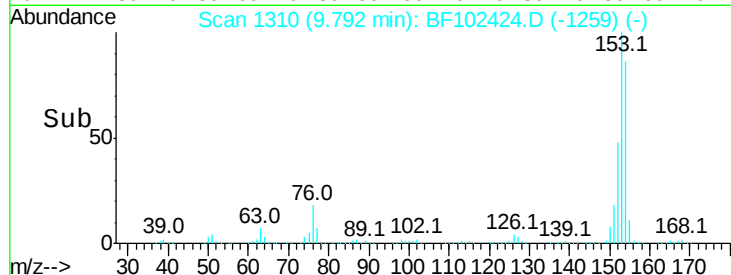
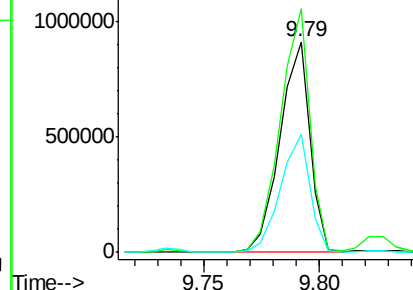
Tot Ion:	154	Resp:	819043
Ion Ratio	Lower	Upper	
154	100		
153	115.5	91.2	136.8
152	56.0	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 63.028 ng

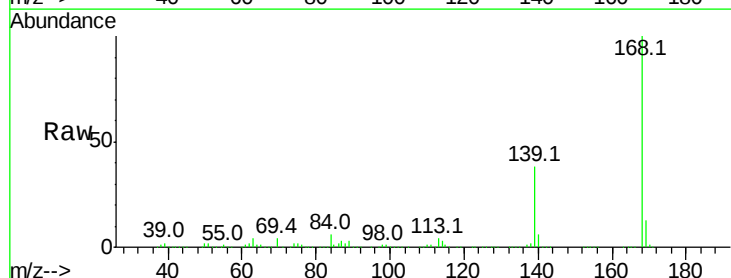
RT: 9.96 min Scan# 1339

Delta R.T. 0.00 min

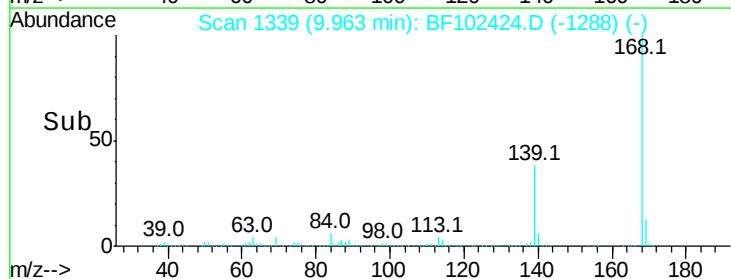
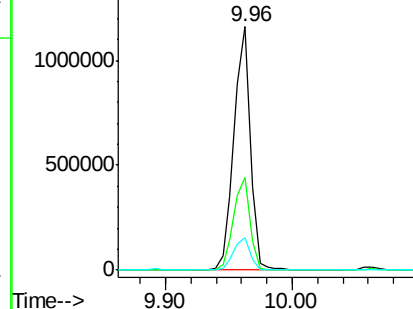
Lab File: BF102424.D

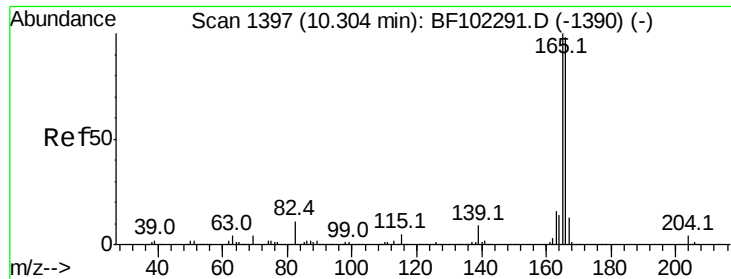
Acq: 25 Jan 2018 14:19

Tgt Ion:	168	Resp:	1036116
Ion Ratio	Lower	Upper	
168	100		
139	37.8	30.1	45.1
169	13.2	10.9	16.3



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





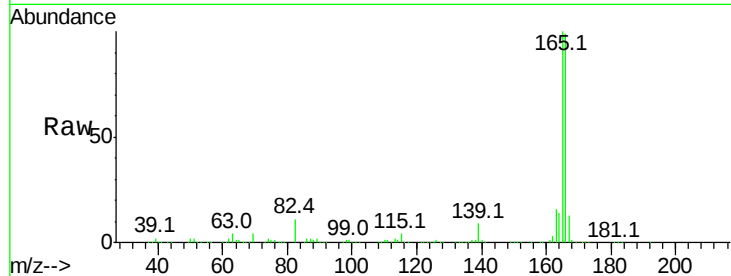
#57
Fluorene
 Concen: 90.990 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. 0.01 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.8	119.8
167	13.2	10.6	16.0

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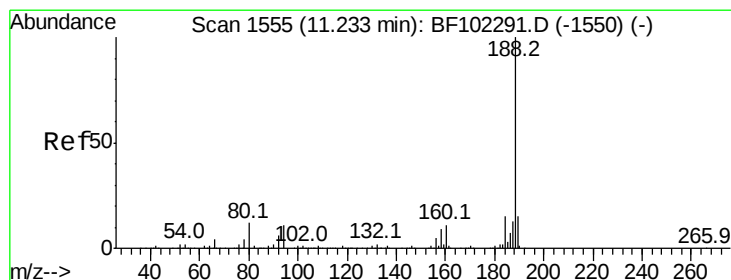
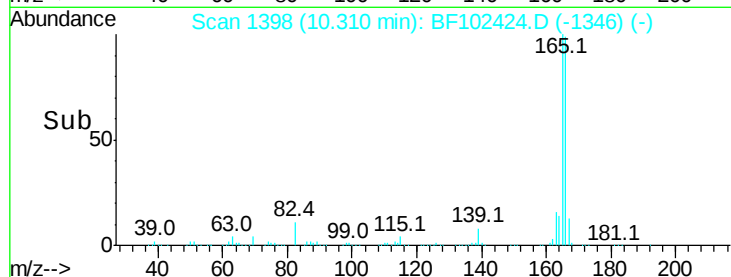
Abundance

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

Time-->



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.01 min
 Lab File: BF102424.D
 Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.5	12.7
80	10.4	9.2	13.8

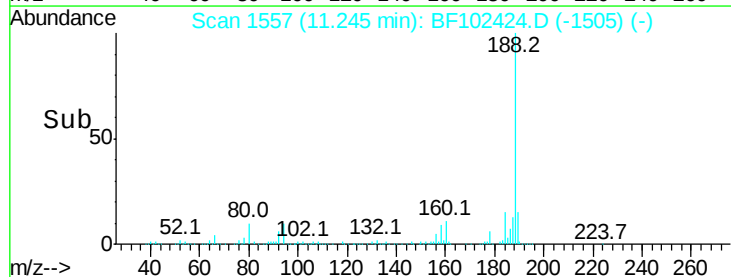
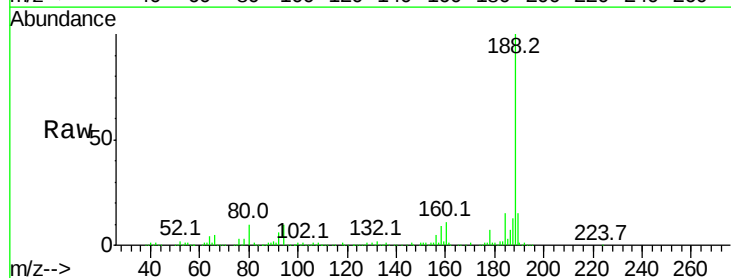
Abundance

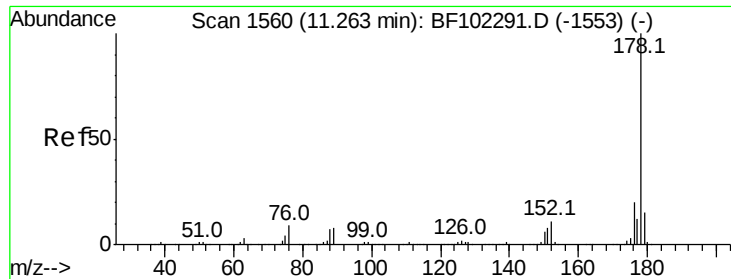
Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time-->





#70

Phenanthrene

Concen: 197.702 ng

RT: 11.28 min Scan# 1563

Delta R.T. 0.02 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Instrument :

BNA_F

ClientSampleId :

A2-SB99-BOT-8

Tot Ion:178 Resp: 3233890

Ion Ratio Lower Upper

178 100

176 20.5 15.8 23.8

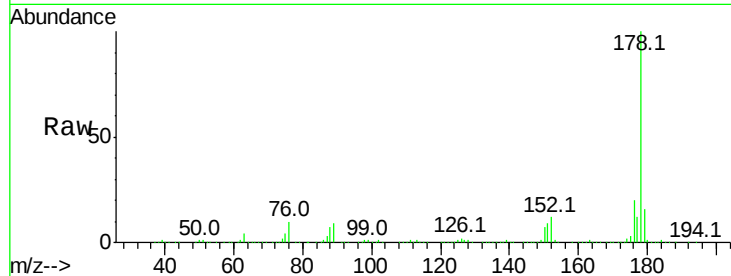
179 15.8 13.0 19.6

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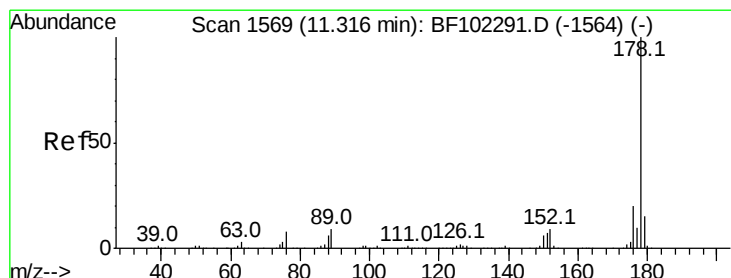
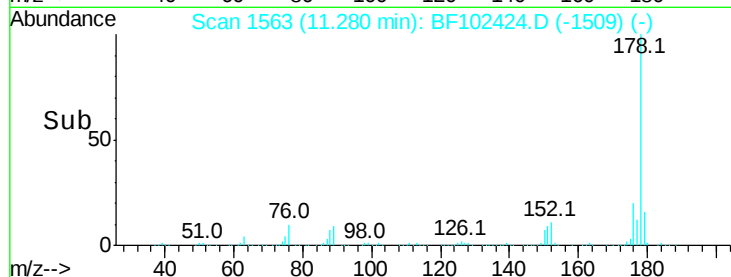
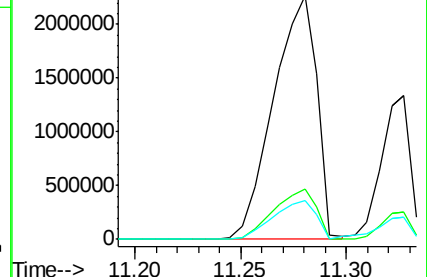
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 74.071 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Tgt Ion:178 Resp: 1236680

Ion Ratio Lower Upper

178 100

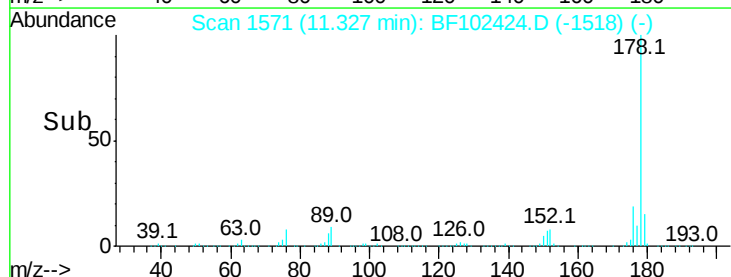
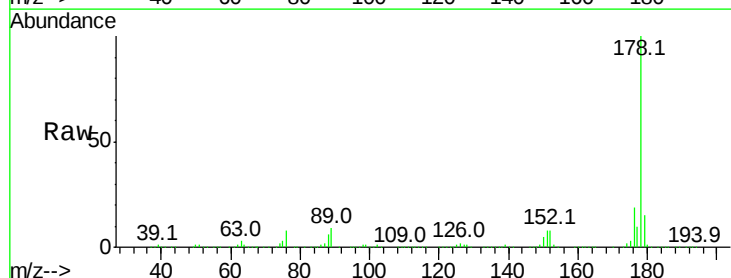
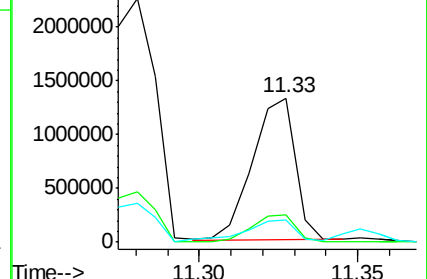
176 18.9 15.4 23.2

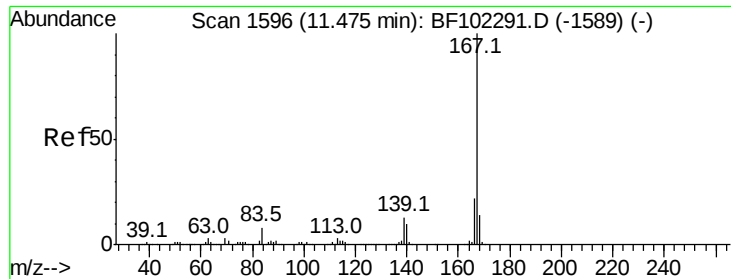
179 15.4 12.6 19.0

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 35.148 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Instrument :

BNA_F

ClientSampleId :

A2-SB99-BOT-8

Tot Ion:167 Resp: 572489

Ion Ratio Lower Upper

167 100

166 21.9 17.6 26.4

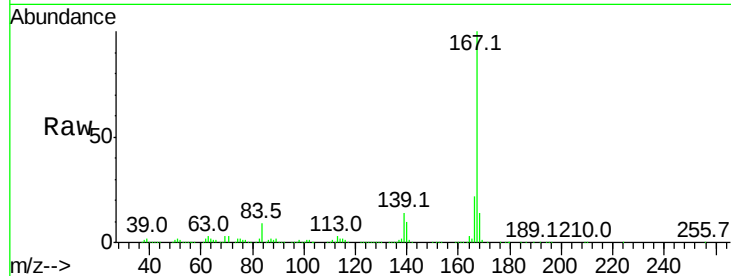
139 13.7 10.9 16.3

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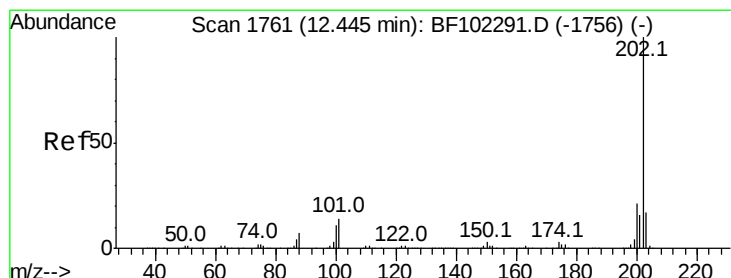
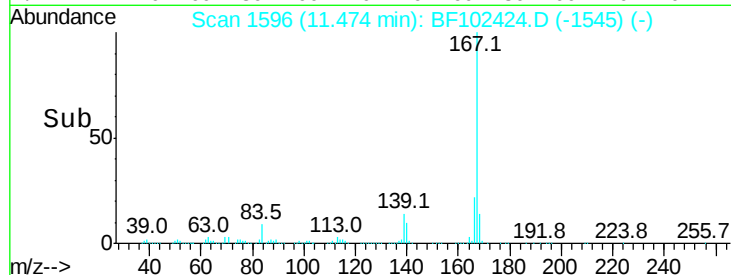
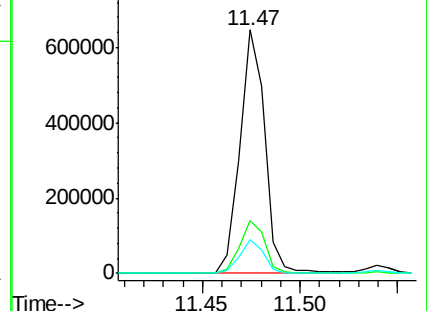
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Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 139.481 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.02 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

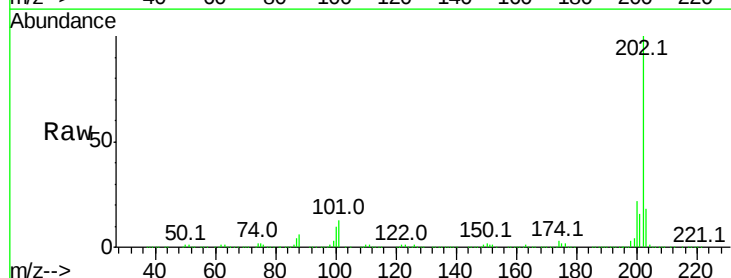
Tgt Ion:202 Resp: 2326619

Ion Ratio Lower Upper

202 100

101 13.1 0.0 34.1

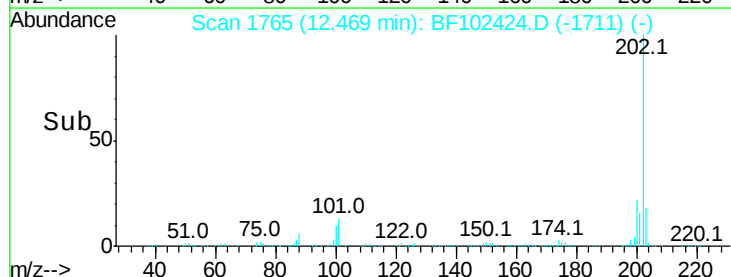
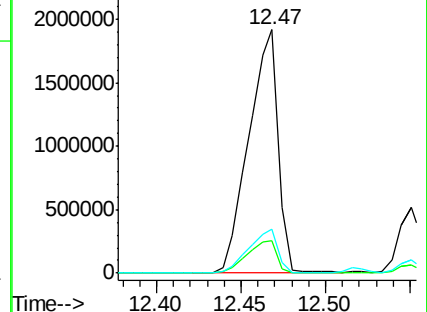
203 17.9 0.0 38.1

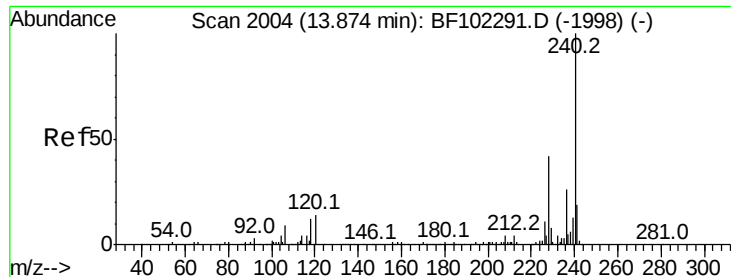


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Instrument :

BNA_F

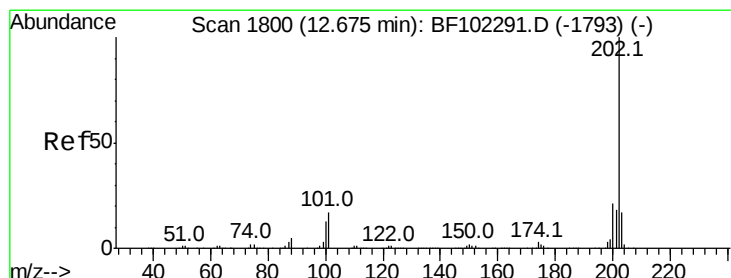
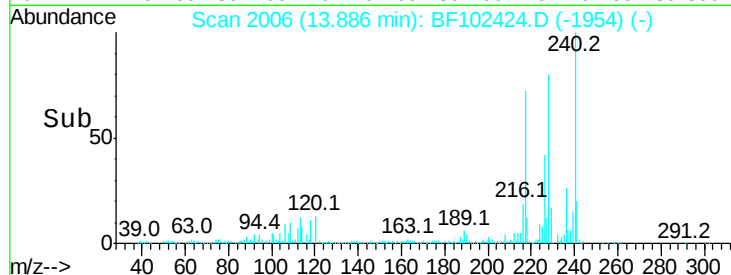
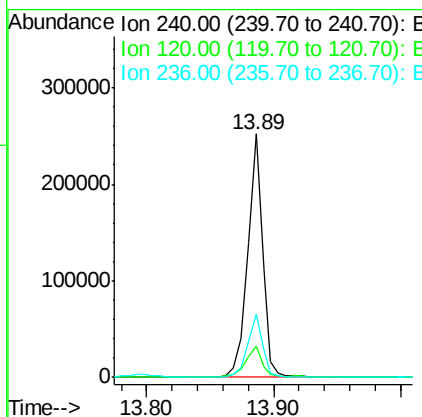
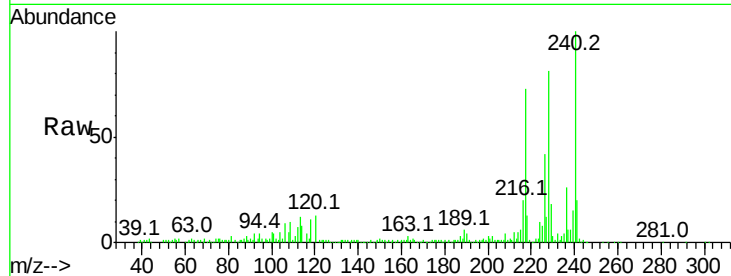
ClientSampleId :

A2-SB99-BOT-8

Tot Ion:	240	Resp:	203994
Ion Ratio	Lower	Upper	
240	100		
120	13.0	9.5	14.3
236	26.2	20.7	31.1

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#77

Pyrene

Concen: 116.807 ng

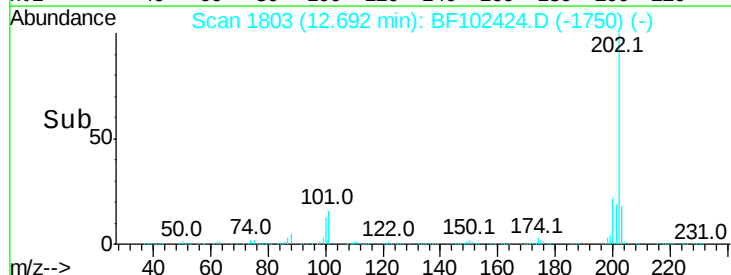
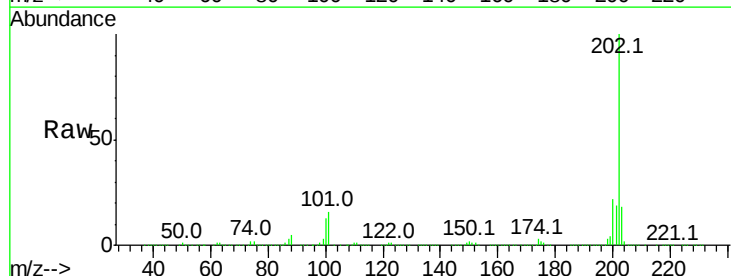
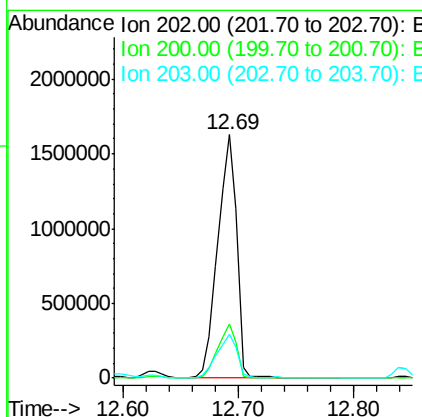
RT: 12.69 min Scan# 1803

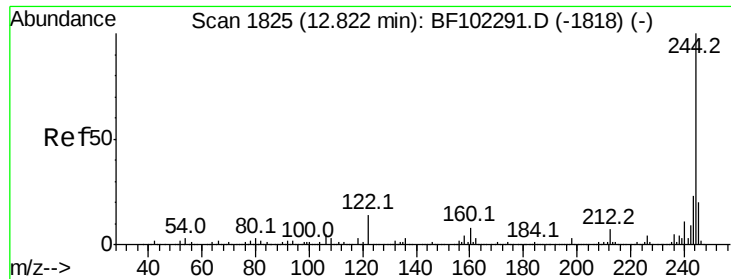
Delta R.T. 0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Tgt Ion:	202	Resp:	1842292
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.4	26.2
203	18.1	14.3	21.5





#78

Terphenyl-d14

Concen: 3.890 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Instrument :

BNA_F

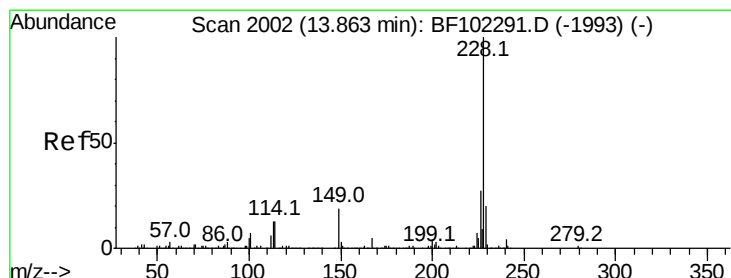
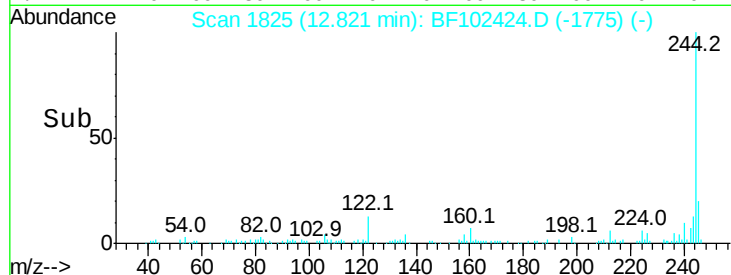
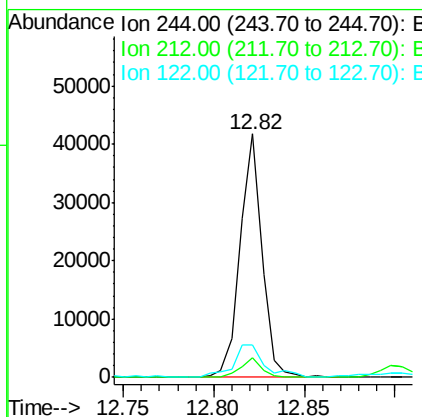
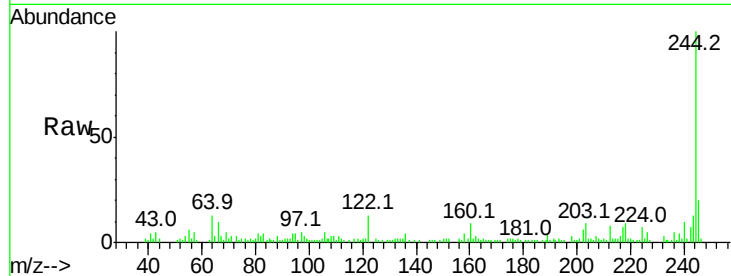
ClientSampleId :

A2-SB99-BOT-8

Tot Ion:	244	Resp:	35202
Ion Ratio	Lower	Upper	
244	100		
212	8.0	5.4	8.0
122	13.4	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 80.750 ng m

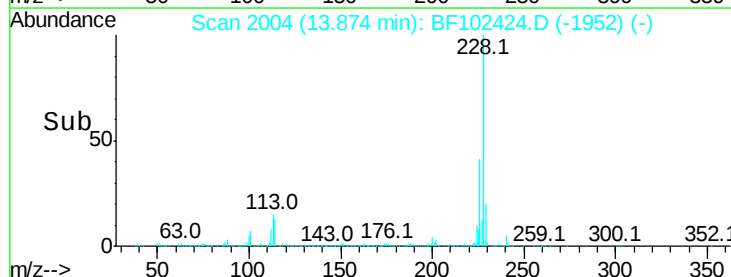
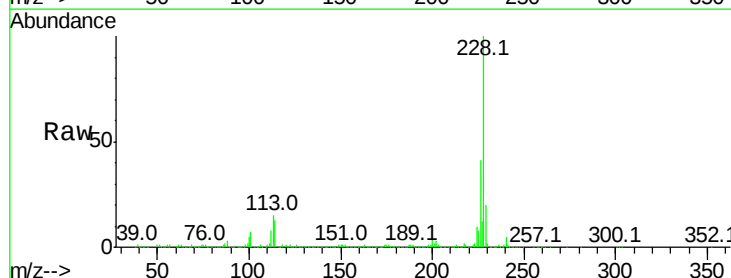
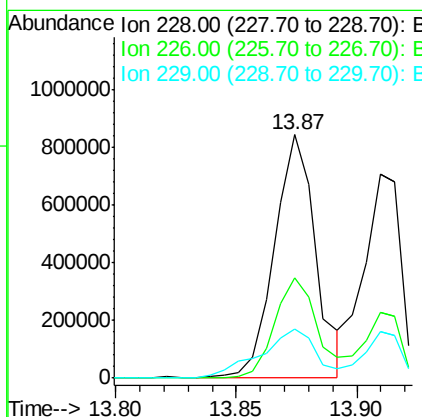
RT: 13.87 min Scan# 2004

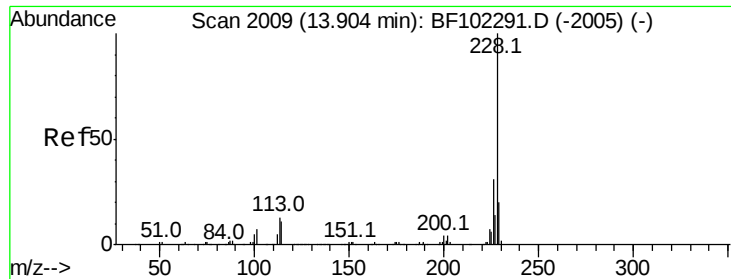
Delta R.T. 0.01 min

Lab File: BF102424.D

Acq: 25 Jan 2018 14:19

Tgt Ion:	228	Resp:	1014154
Ion Ratio	Lower	Upper	
228	100		
226	41.4	22.6	33.8#
229	20.2	15.8	23.6





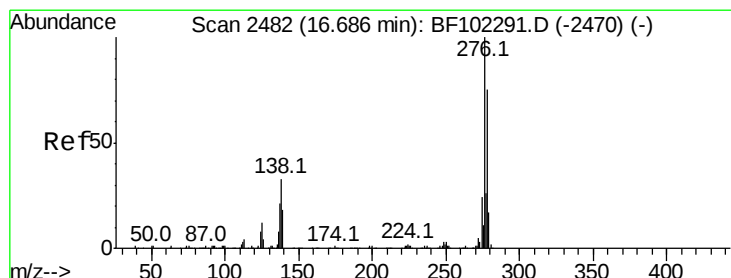
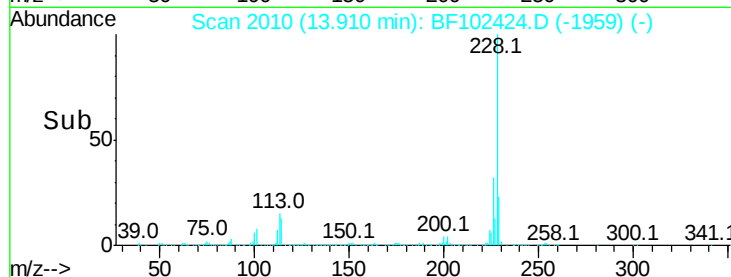
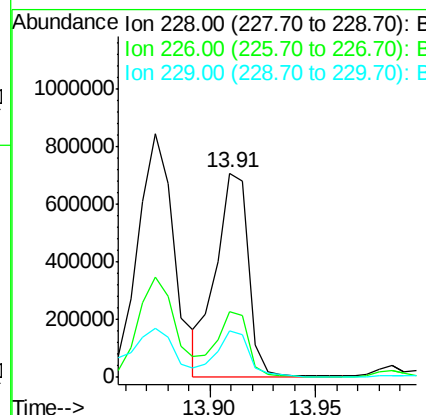
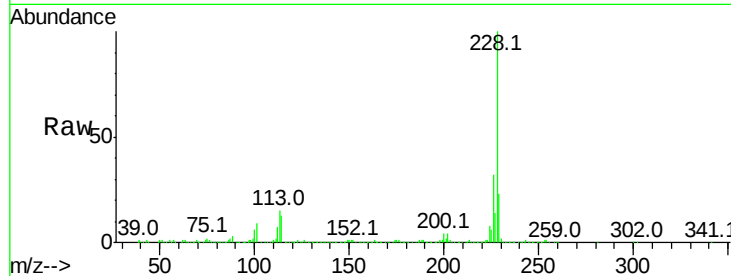
#82
Chrysene
Concen: 59.433 ng
RT: 13.91 min Scan# 2010
Delta R.T. 0.00 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.0	37.6
229	22.9	16.2	24.4

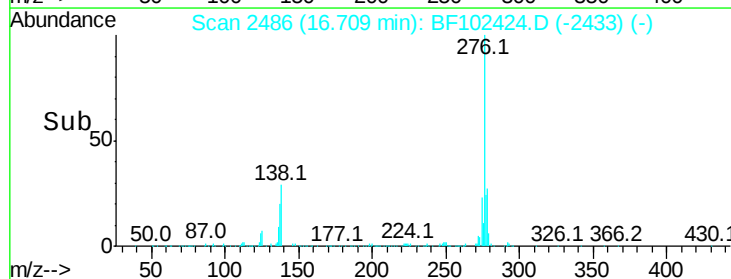
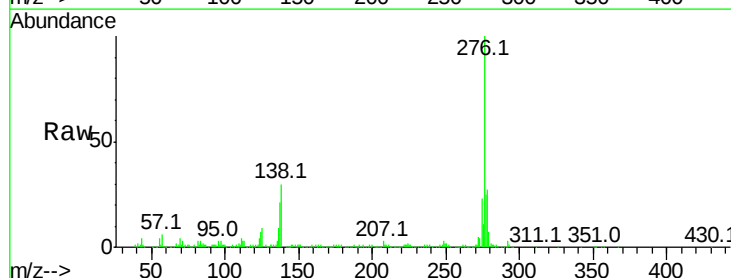
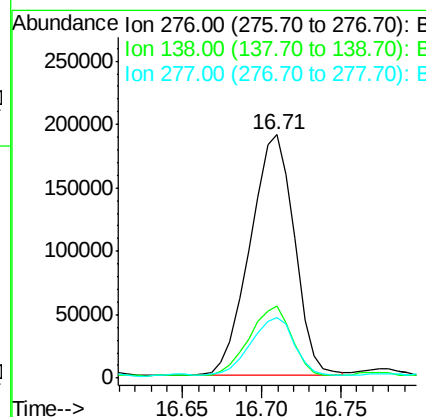
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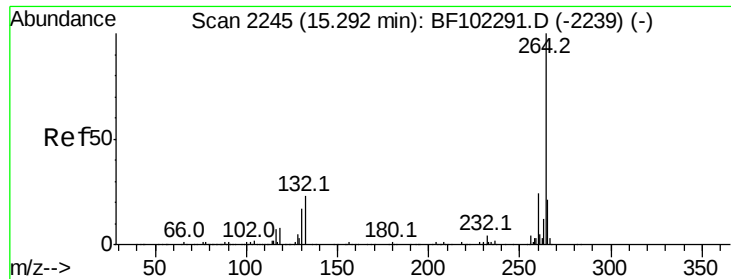
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#85
Indeno(1,2,3-cd)pyrene
Concen: 35.179 ng
RT: 16.71 min Scan# 2486
Delta R.T. 0.01 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.3	25.0	37.6
277	23.7	20.1	30.1





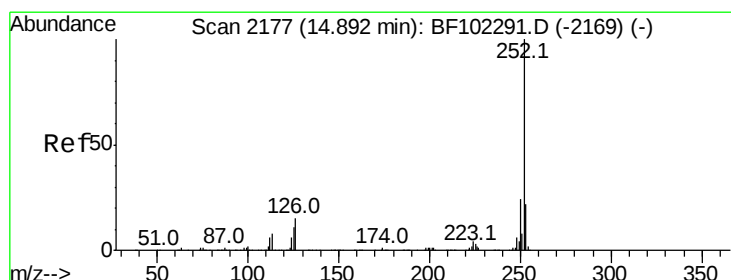
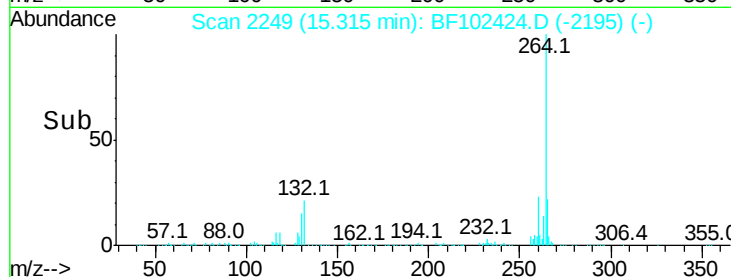
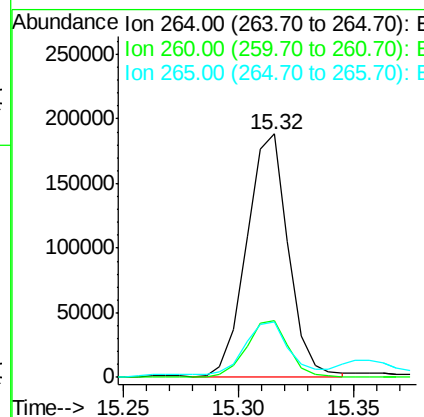
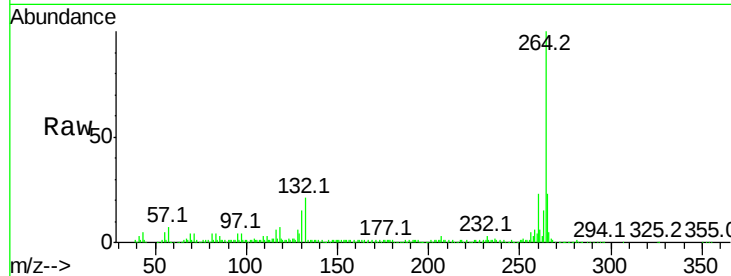
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.02 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.2	28.8
265	22.6	17.5	26.3

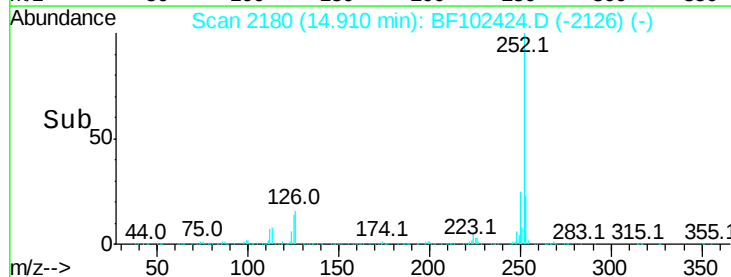
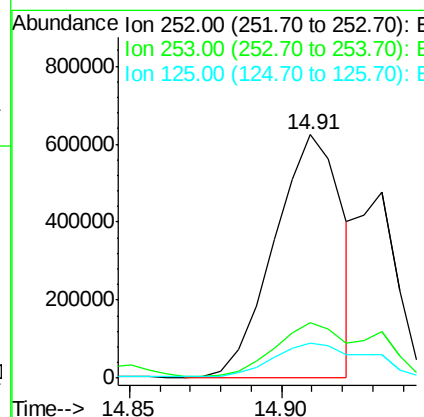
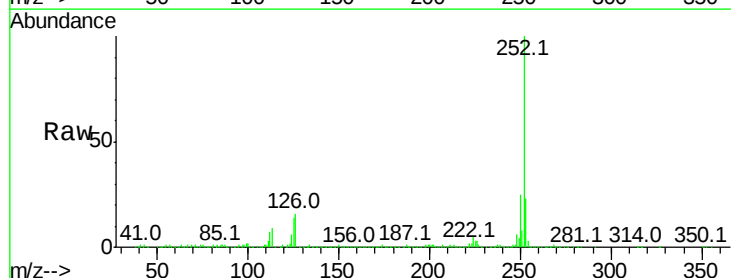
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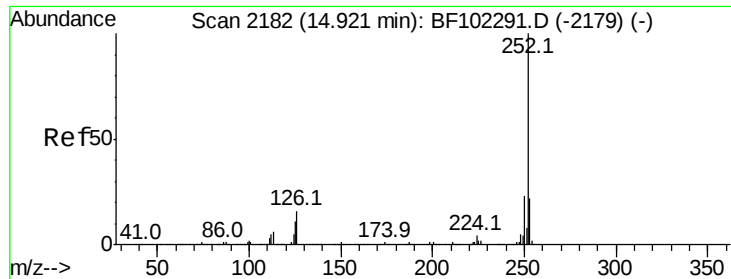
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#87
Benzo(b)fluoranthene
Concen: 63.222 ng m
RT: 14.91 min Scan# 2180
Delta R.T. 0.02 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	14.2	9.0	13.6





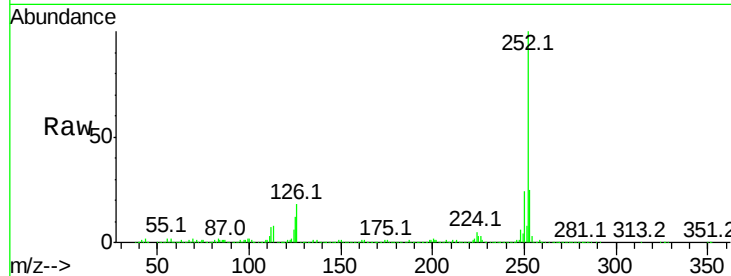
#88
Benzo(k)fluoranthene
Concen: 28.953 ng m
RT: 14.93 min Scan# 2184
Delta R.T. 0.01 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

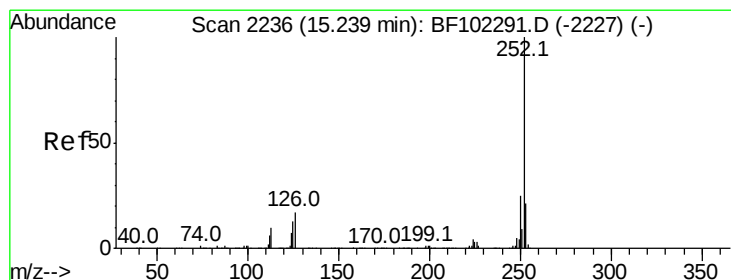
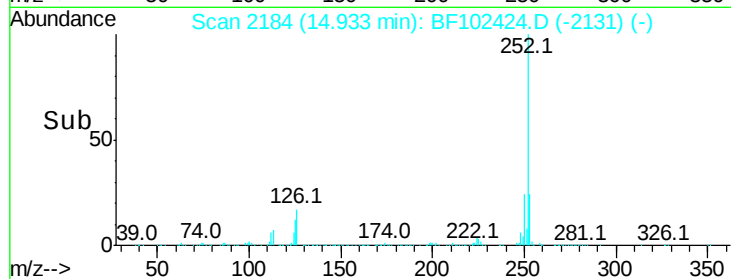
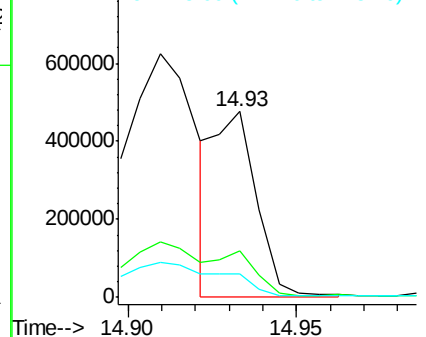
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.9	26.9
125	12.5	10.2	15.2

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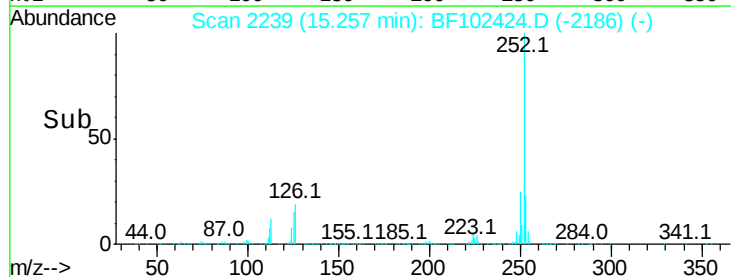
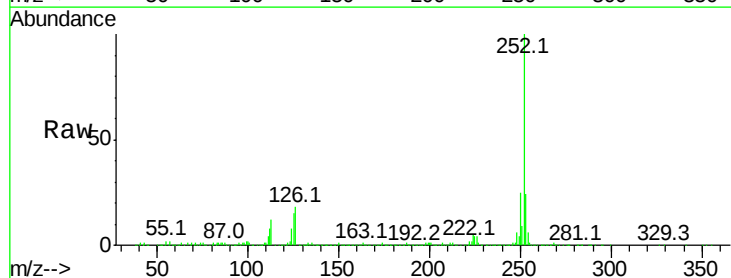
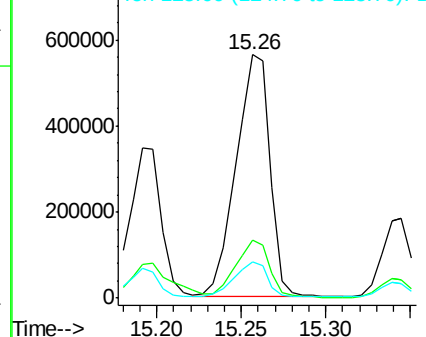
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

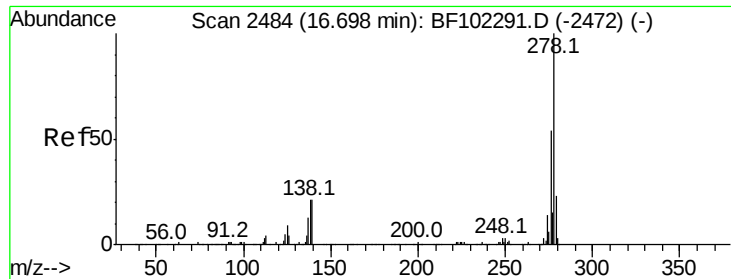


#89
Benzo(a)pyrene
Concen: 57.587 ng
RT: 15.26 min Scan# 2239
Delta R.T. 0.01 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	14.8	9.8	14.6

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





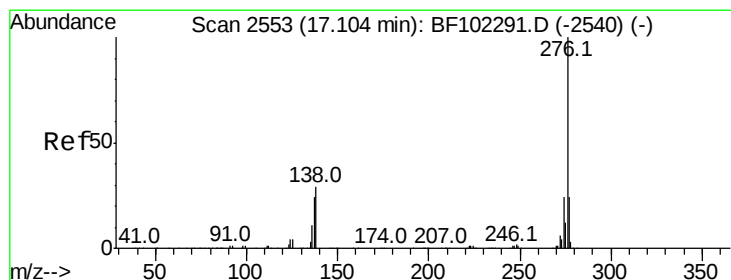
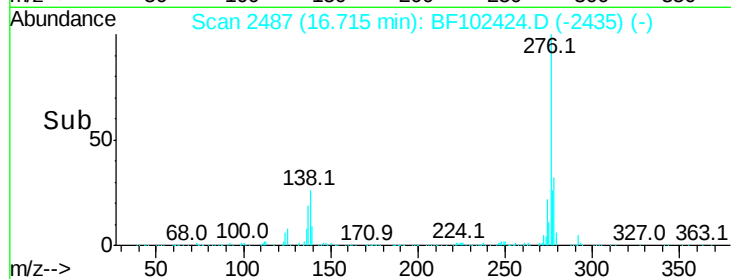
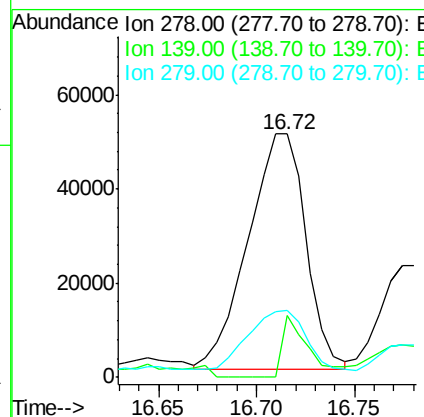
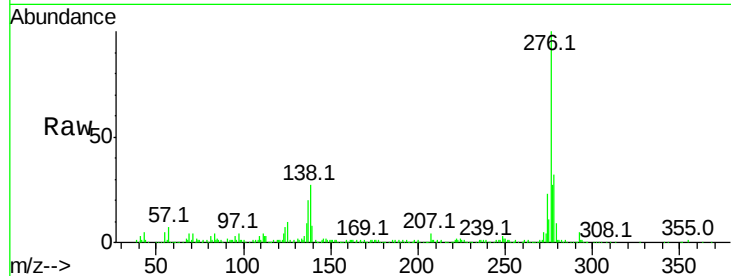
#90
Dibenzo(a,h)anthracene
Concen: 9.073 ng m
RT: 16.72 min Scan# 2487
Delta R.T. 0.01 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Instrument :
BNA_F
ClientSampleId :
A2-SB99-BOT-8

Tot Ion	Ratio	Lower	Upper
278	100		
139	25.5	15.9	23.9#
279	27.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
1/25/2018 5:42:18 PM



#91
Benzo(g,h,i)perylene
Concen: 27.694 ng
RT: 17.13 min Scan# 2558
Delta R.T. 0.02 min
Lab File: BF102424.D
Acq: 25 Jan 2018 14:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	17.9	26.9
138	28.0	21.8	32.8

