

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF021918\
 Data File : BF103103.D
 Acq On : 20 Feb 2018 1:22
 Operator : SJ/JU
 Sample : J1600-03 20X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-S_10

Manual Integrations
 APPROVED

Sohil
 2/20/2018 10:21:06 AM

Quant Time: Feb 20 02:38:21 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 16 14:34:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	164083	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	681903	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	297262	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	436506	20.00	ng	0.00
75) Chrysene-d12	14.05	240	268055	20.00	ng	0.00
86) Perylene-d12	15.54	264	280807	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	51035	4.72	ng	0.00
7) Phenol-d6	6.51	99	67051	5.15	ng	0.00
23) Nitrobenzene-d5	7.43	82	37058	3.77	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	8794	3.68	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	47211	2.64	ng	-0.01
78) Terphenyl-d14	12.98	244	29360	2.59	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.19	128	2481432	74.481	ng	98
37) 2-Methylnaphthalene	8.87	142	459819	21.080	ng	100
45) 1,1'-Biphenyl	9.33	154	136042	5.434	ng	98
48) Acenaphthylene	9.77	152	297388	9.714	ng	98
51) Acenaphthene	9.96	154	1146120	62.600	ng	100
54) Dibenzofuran	10.12	168	1150321	44.583	ng	97
57) Fluorene	10.47	166	1224786	65.242	ng	99
70) Phenanthrene	11.44	178	2913510	119.846	ng	99
71) Anthracene	11.49	178	894136	36.162	ng	99
72) Carbazole	11.64	167	572423	23.631	ng	100
74) Fluoranthene	12.63	202	1917394	78.391	ng	99
77) Pyrene	12.86	202	1501337	71.425	ng	100
80) Benzo(a)anthracene	14.04	228	833415m	49.437	ng	
82) Chrysene	14.07	228	573513	33.748	ng	98
85) Indeno(1,2,3-cd)pyrene	17.04	276	242693	17.219	ng	96
87) Benzo(b)fluoranthene	15.10	252	792881m	43.551	ng	
88) Benzo(k)fluoranthene	15.13	252	276617m	15.902	ng	
89) Benzo(a)pyrene	15.48	252	605384	36.942	ng	98
90) Dibenzo(a,h)anthracene	17.05	278	69406	5.218	ng	93
91) Benzo(g,h,i)perylene	17.50	276	205212	15.762	ng	98

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

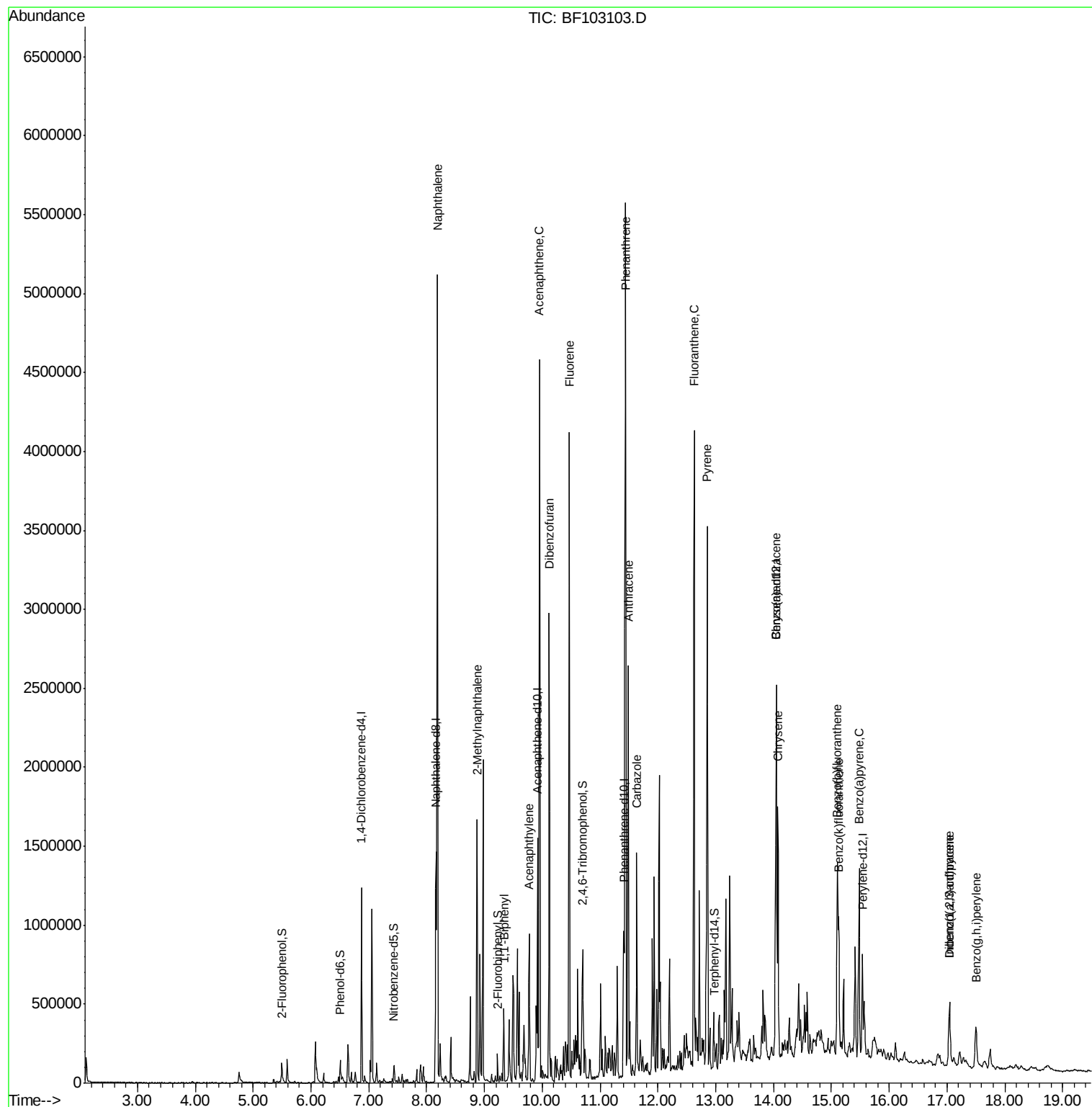
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF021918\
Data File : BF103103.D
Acq On : 20 Feb 2018 1:22
Operator : SJ/JU
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020318.M
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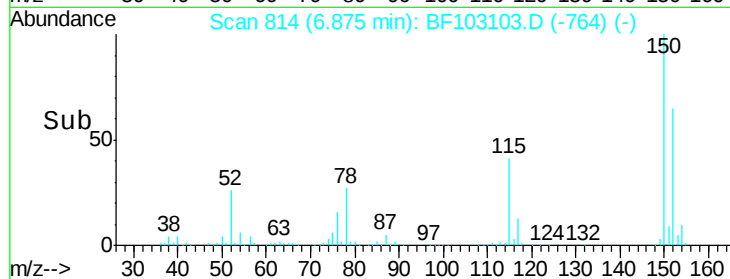
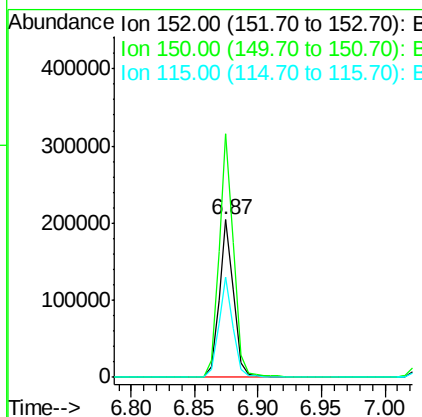
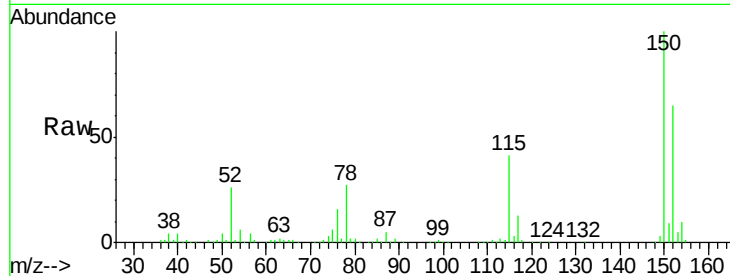
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 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.87 min Scan# 814
 Delta R.T. -0.01 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_BOT-S_10

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	63.8	50.1	75.1

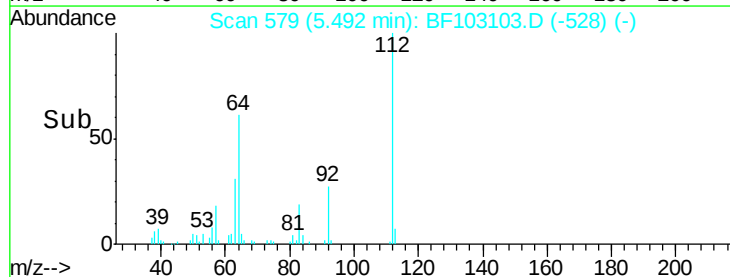
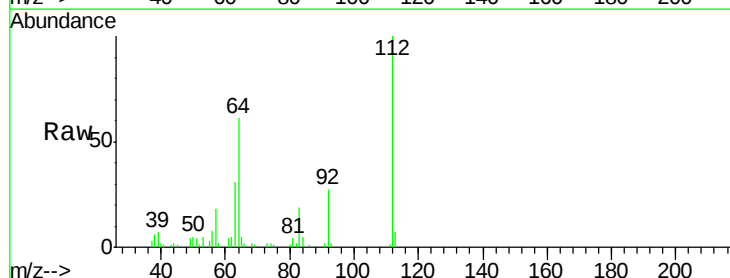
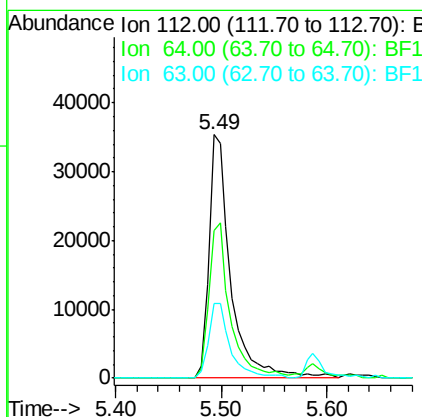
Manual Integrations
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#5
 2-Fluorophenol
 Concen: 4.724 ng
 RT: 5.49 min Scan# 579
 Delta R.T. -0.00 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.7	47.9	71.9
63	30.8	23.7	35.5





#7

Phenol-d6

Concen: 5.154 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.00 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Instrument :

BNA_F

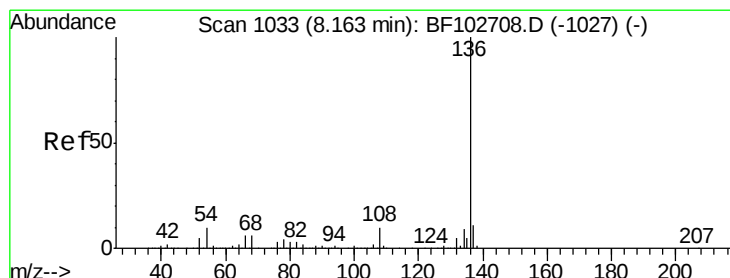
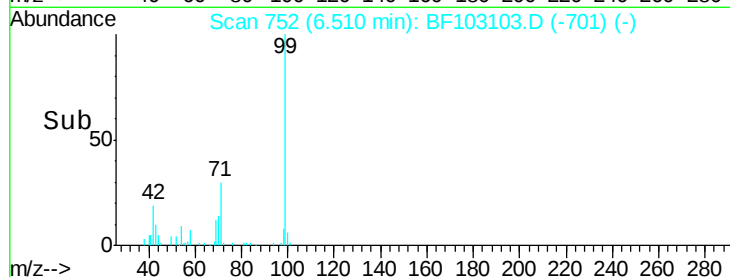
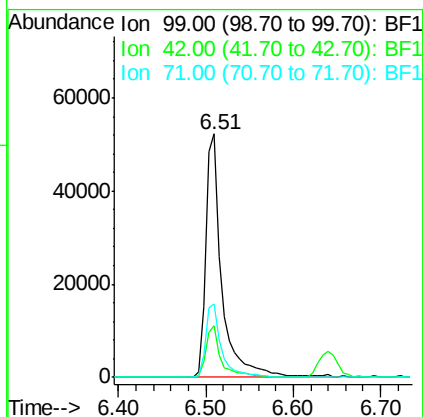
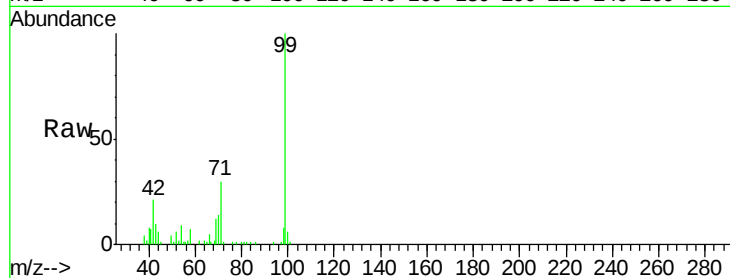
ClientSampleId :

A2 SB69 BOT-S_10

Tgt Ion:	99	Resp:	67051
Ion Ratio	Lower	Upper	
99	100		
42	21.0	14.5	21.7
71	30.2	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

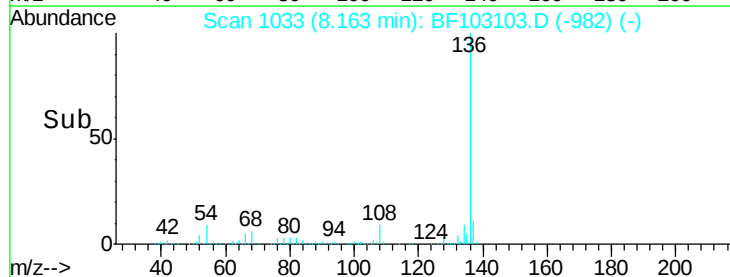
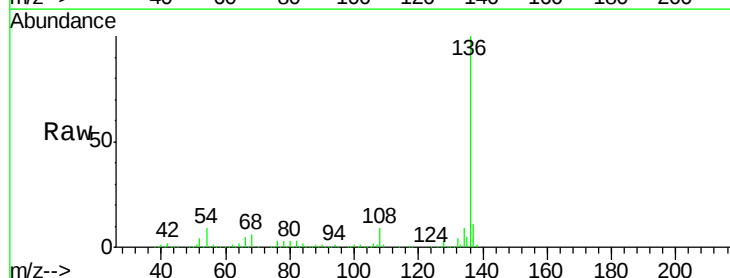
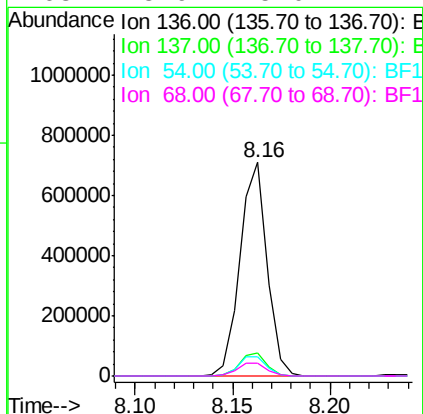
RT: 8.16 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Tgt Ion:	136	Resp:	681903
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	8.8	6.6	9.8
68	5.9	5.0	7.4





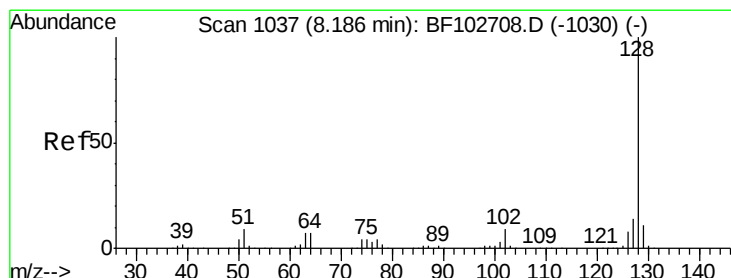
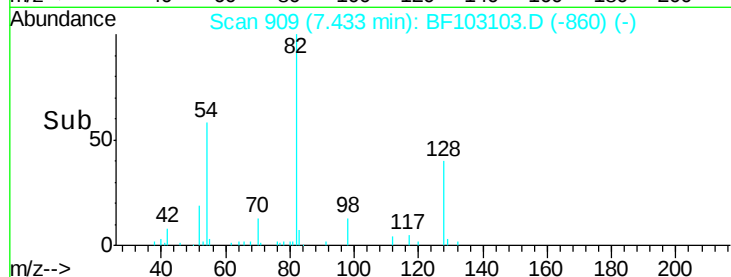
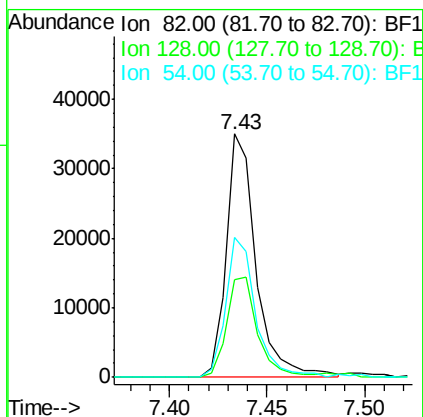
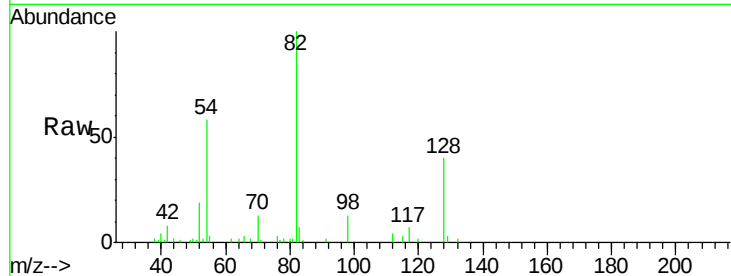
#23
Nitrobenzene-d5
Concen: 3.770 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-S_10

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.0	36.1	54.1
54	57.5	41.4	62.2

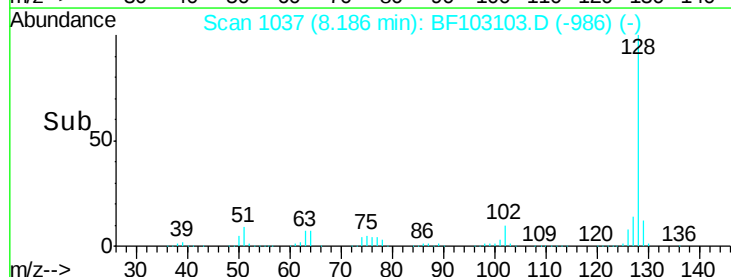
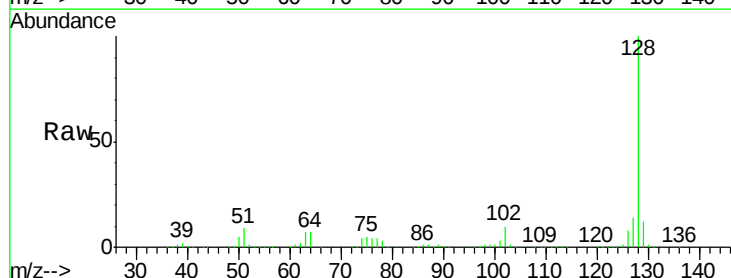
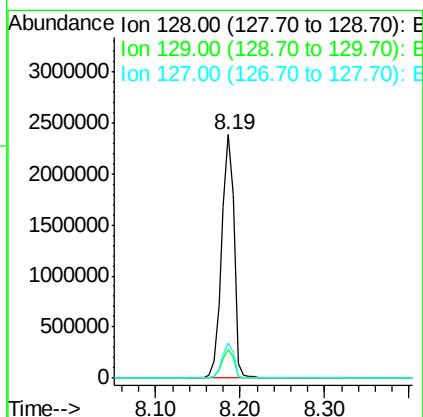
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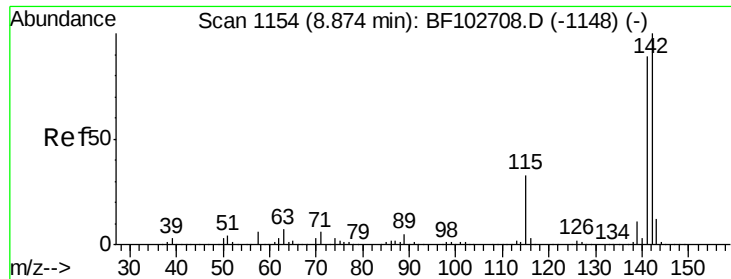
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#31
Naphthalene
Concen: 74.481 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.00 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	14.2	10.9	16.3





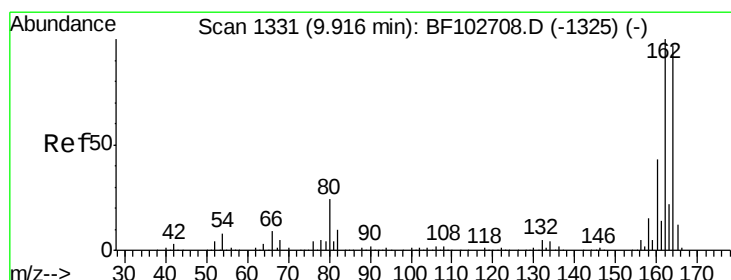
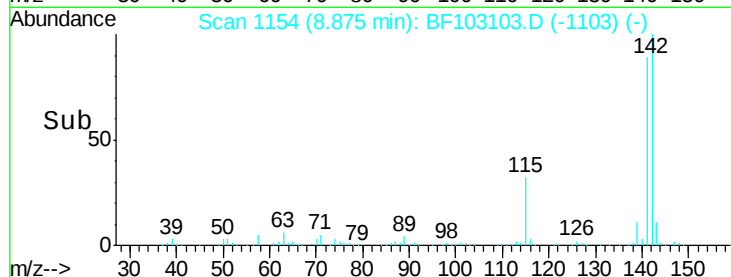
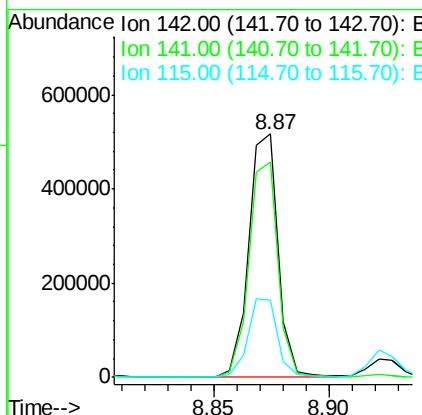
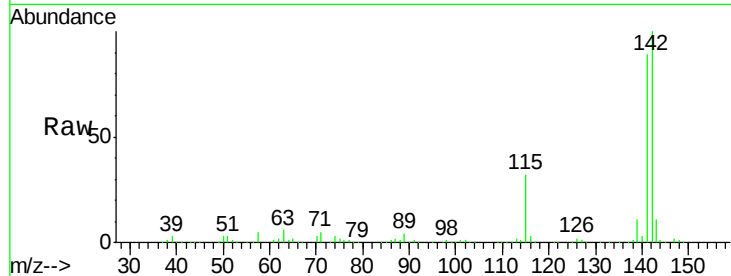
#37
2-Methylnaphthalene
Concen: 21.080 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-S_10

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	459819		
141	88.7	70.8	106.2	
115	31.9	26.1	39.1	

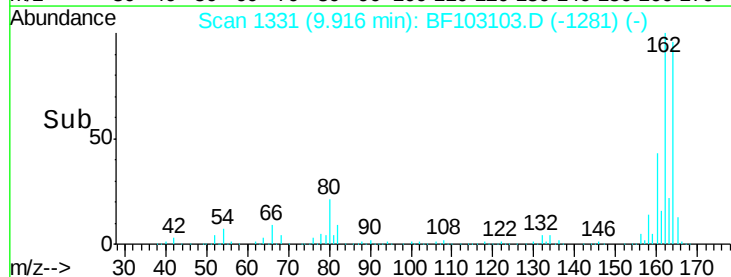
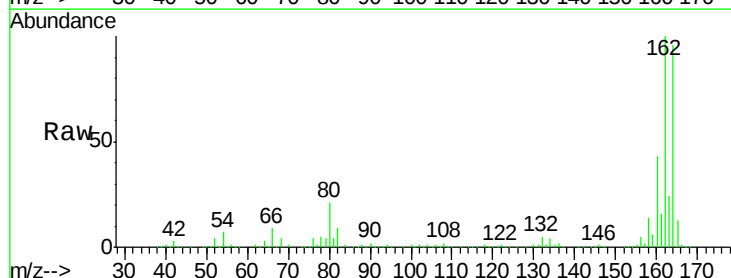
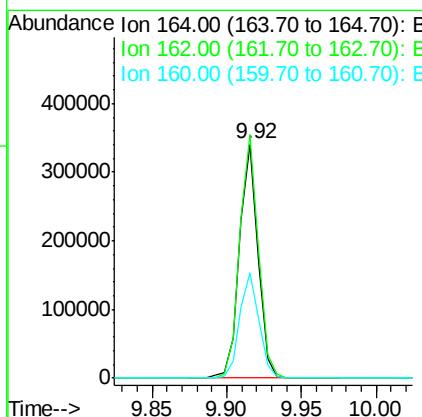
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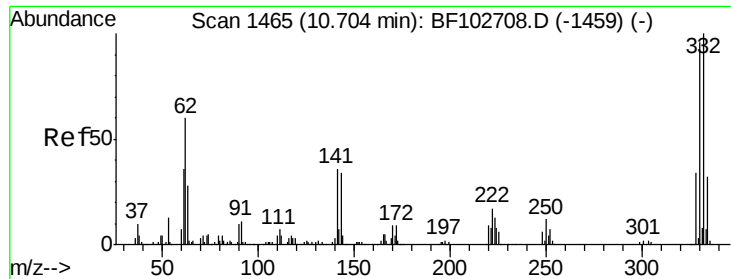
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	297262		
162	104.1	86.1	129.1	
160	45.3	38.3	57.5	





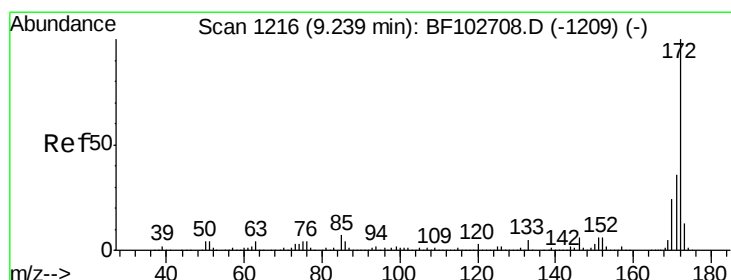
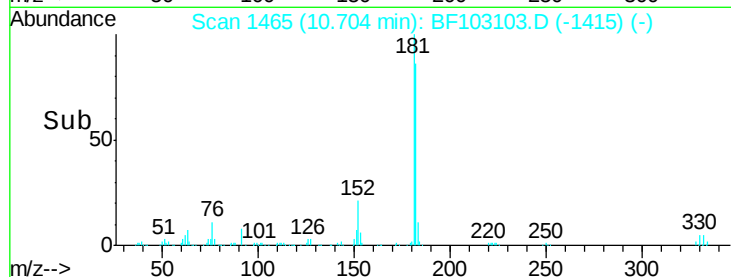
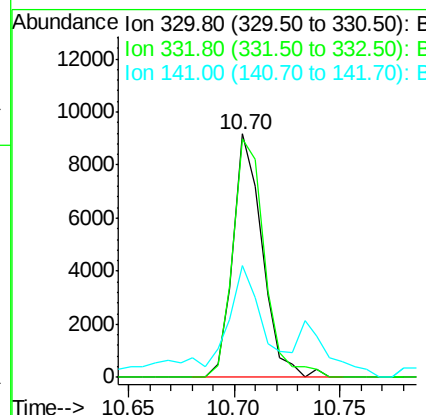
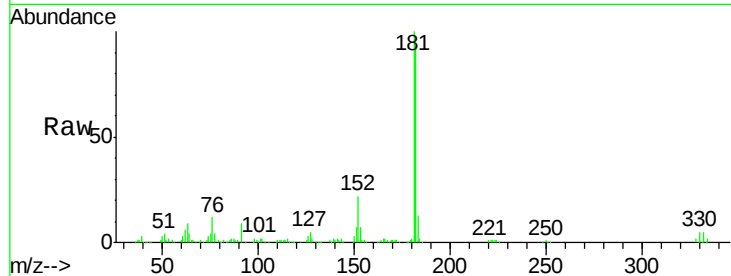
#41
 2,4,6-Tribromophenol
 Concen: 3.675 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_BOT-S_10

Tgt Ion	Ratio	Lower	Upper
330	100		
332	105.8	77.0	115.6
141	69.8	29.9	44.9

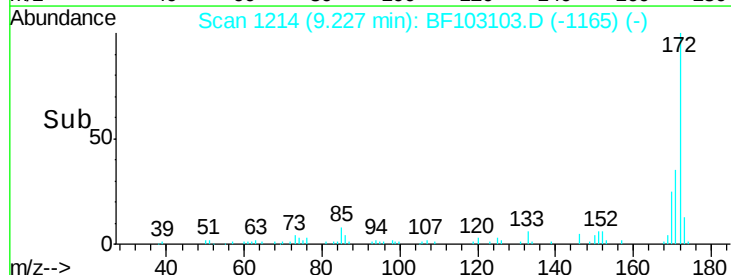
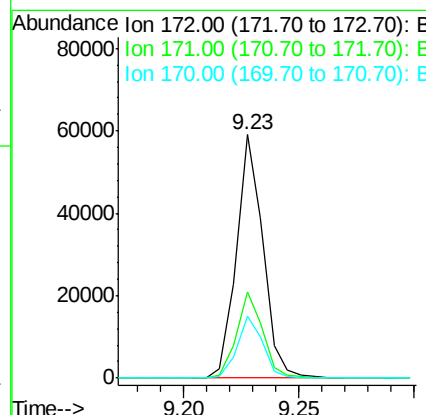
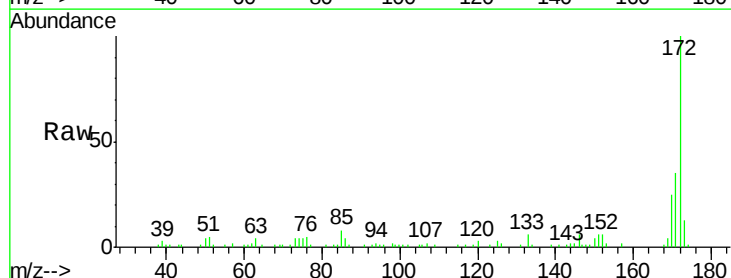
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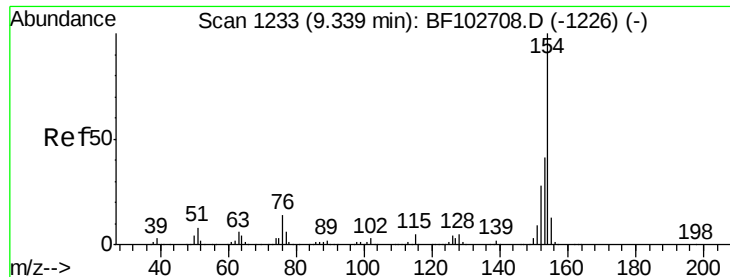
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 2/20/2018 10:21:06 AM



#44
 2-Fluorobiphenyl
 Concen: 2.635 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. -0.01 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	25.4	19.6	29.4





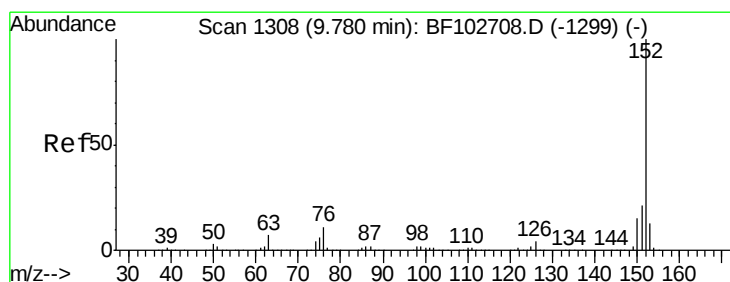
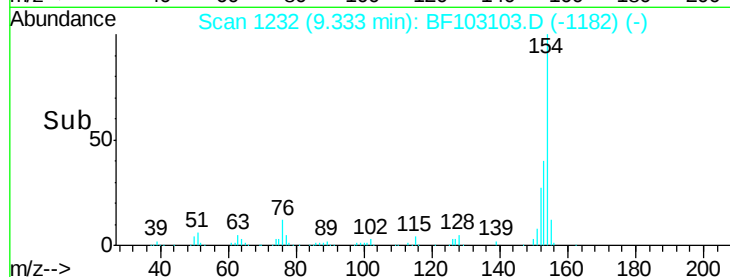
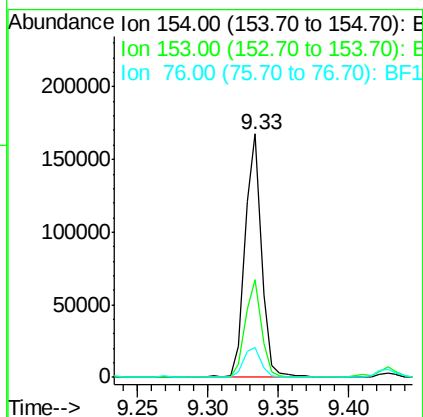
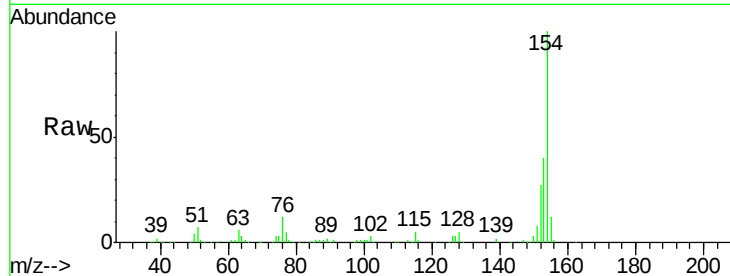
#45
1,1'-Biphenyl
Concen: 5.434 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-S_10

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.4	21.3	61.3	
76	12.2	0.0	34.0	

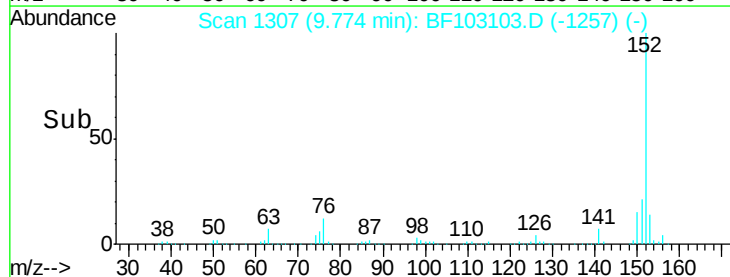
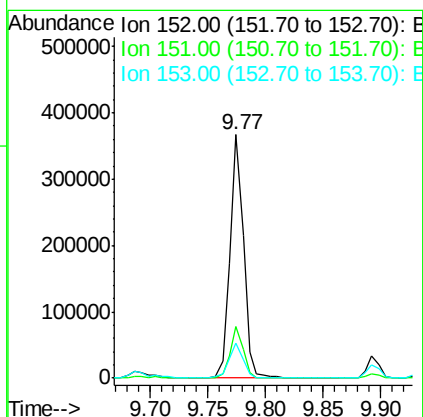
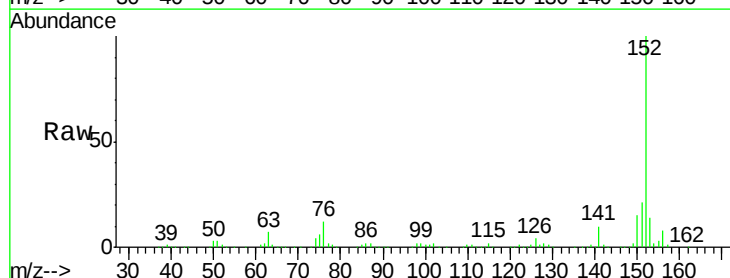
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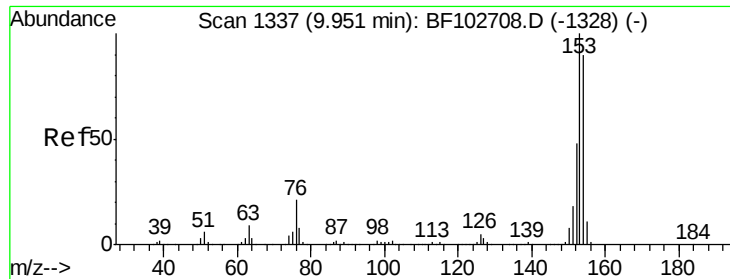
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#48
Acenaphthylene
Concen: 9.714 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.0	16.3	24.5	
153	14.4	10.7	16.1	





#51

Acenaphthene

Concen: 62.600 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.00 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Instrument :

BNA_F

ClientSampleId :

A2 SB69 BOT-S_10

Tgt Ion:154 Resp: 1146120

Ion Ratio Lower Upper

154 100

153 113.8 91.2 136.8

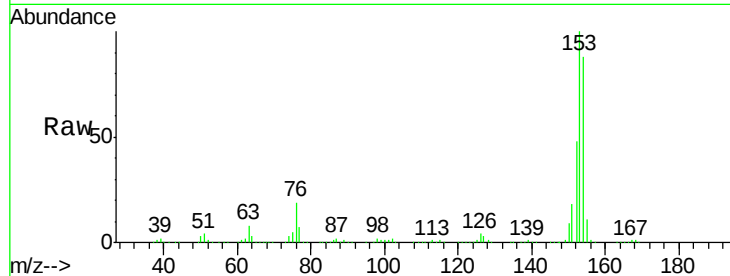
152 54.1 43.8 65.8

Manual Integrations

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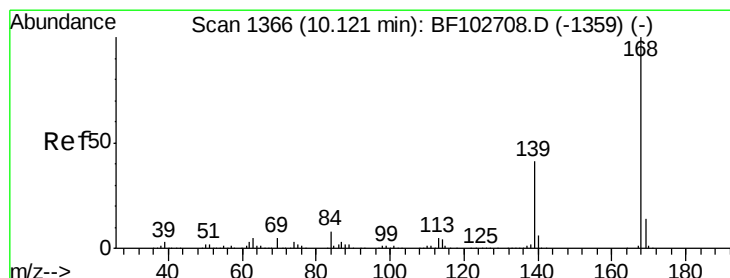
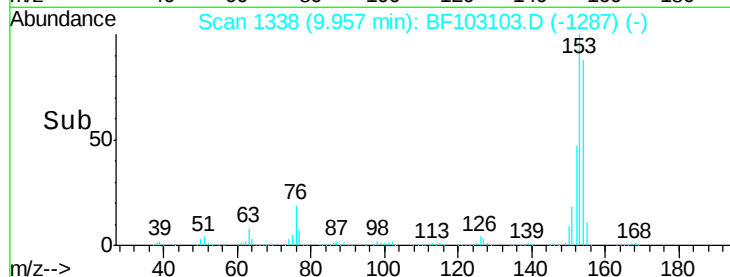
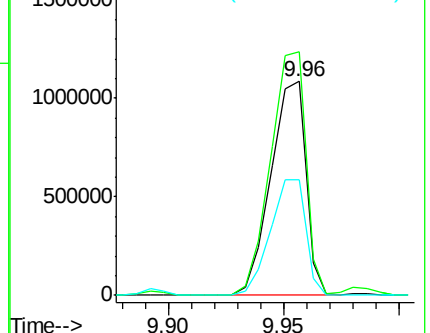
2/20/2018 10:21:06 AM



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: 44.583 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

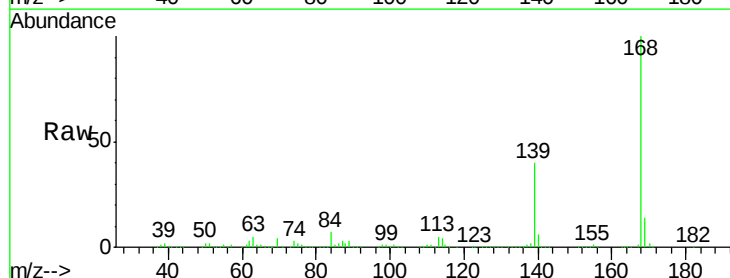
Tgt Ion:168 Resp: 1150321

Ion Ratio Lower Upper

168 100

139 39.6 30.1 45.1

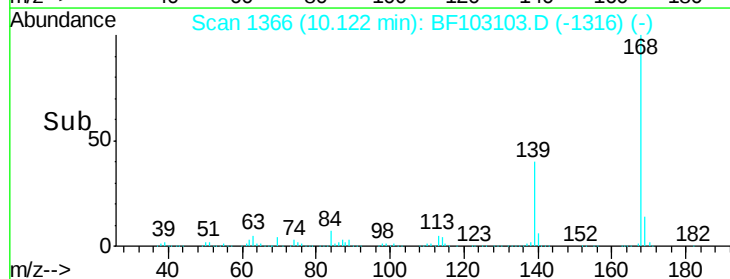
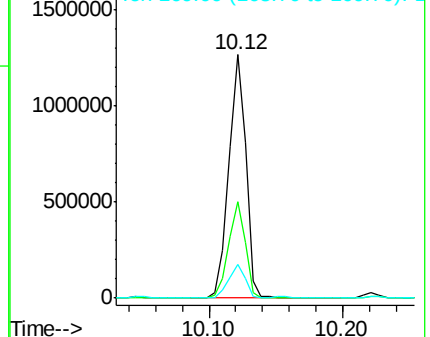
169 13.7 10.9 16.3

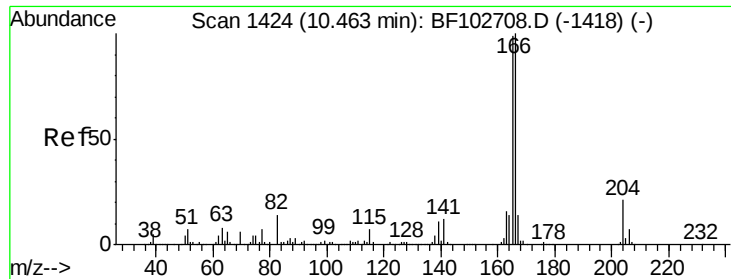


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





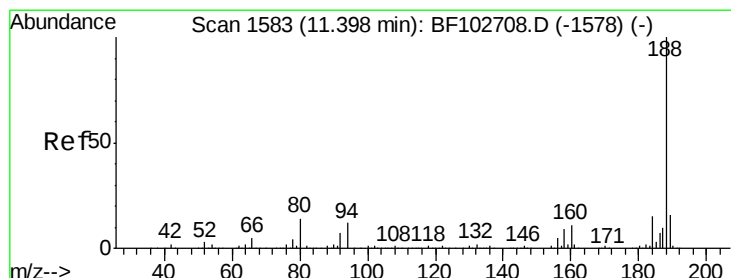
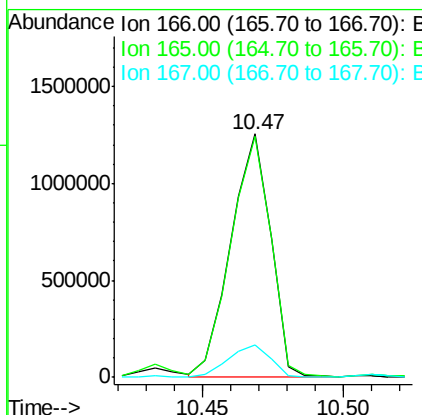
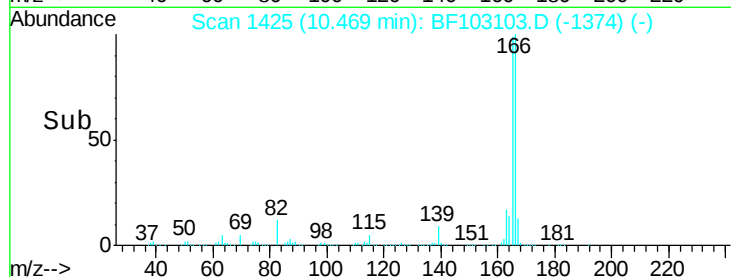
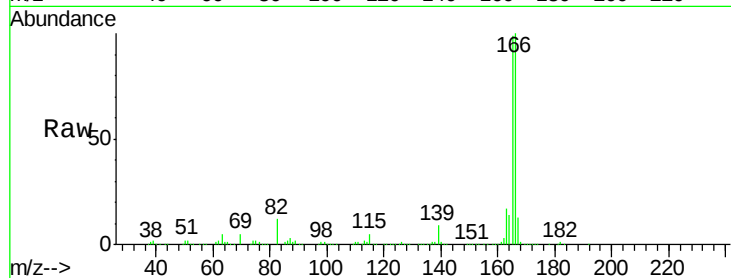
#57
Fluorene
 Concen: 65.242 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.00 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB69_BOT-S_10

Tgt Ion:166 Resp: 1224786
 Ion Ratio Lower Upper
 166 100
 165 99.0 79.8 119.8
 167 13.4 10.6 16.0

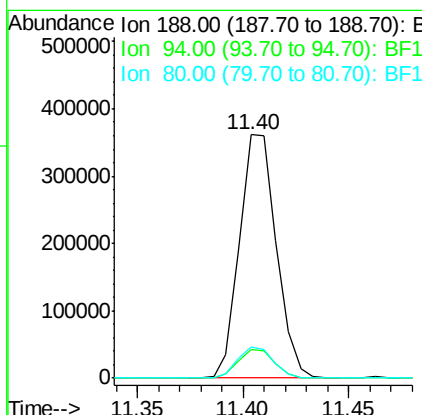
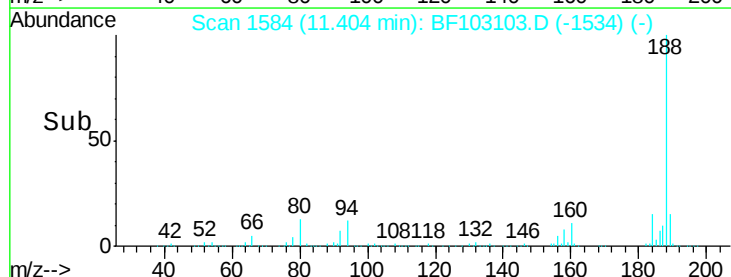
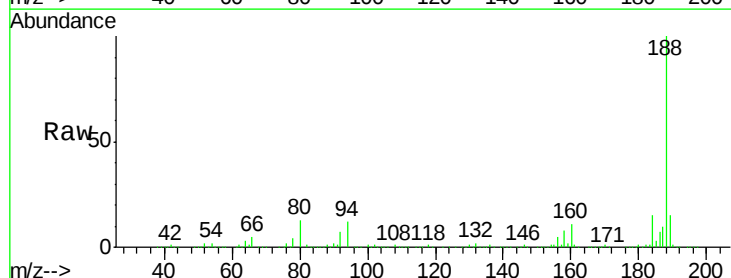
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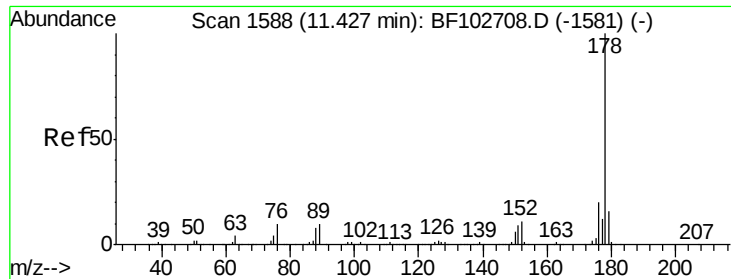
Sohil
 2/20/2018 10:21:06 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Tgt Ion:188 Resp: 436506
 Ion Ratio Lower Upper
 188 100
 94 11.7 8.5 12.7
 80 12.8 9.2 13.8





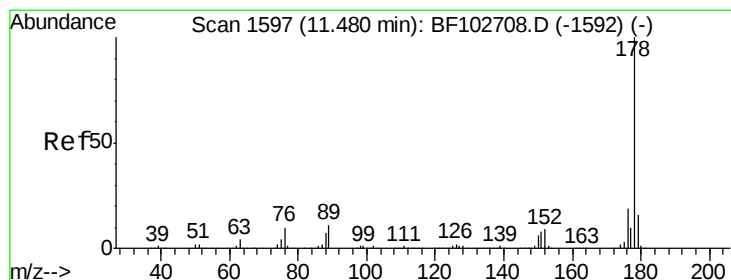
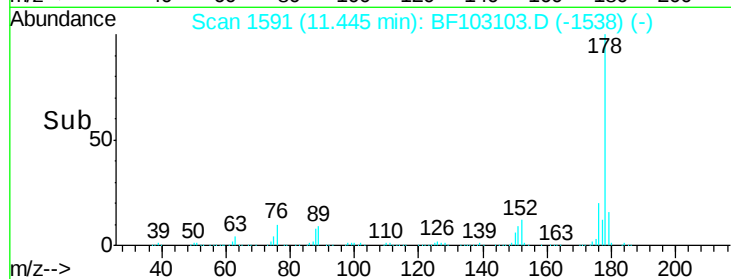
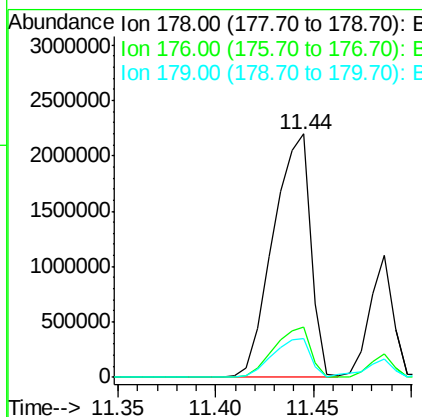
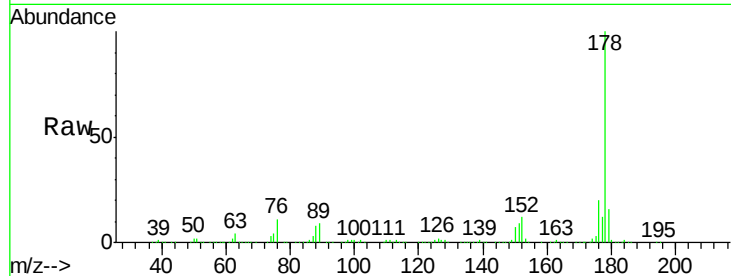
#70
Phenanthrene
Concen: 119.846 ng
RT: 11.44 min Scan# 1591
Delta R.T. 0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-S_10

Tgt Ion:178 Resp: 2913510
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 16.1 13.0 19.6

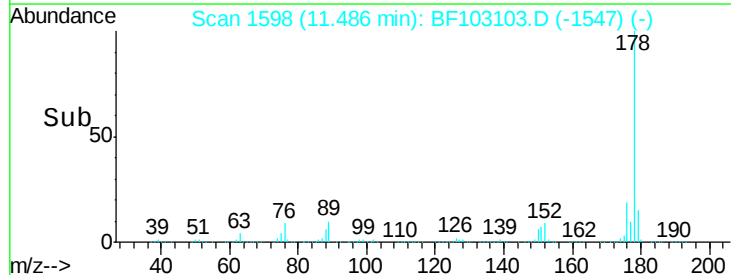
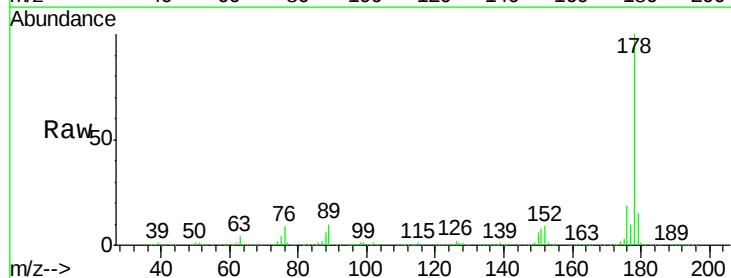
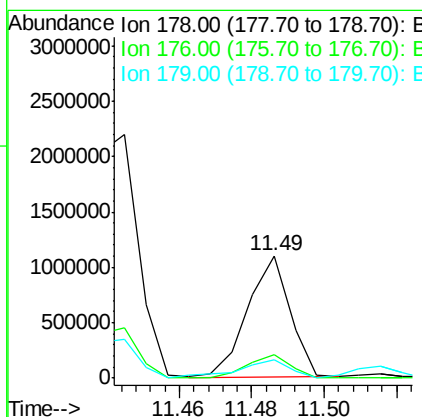
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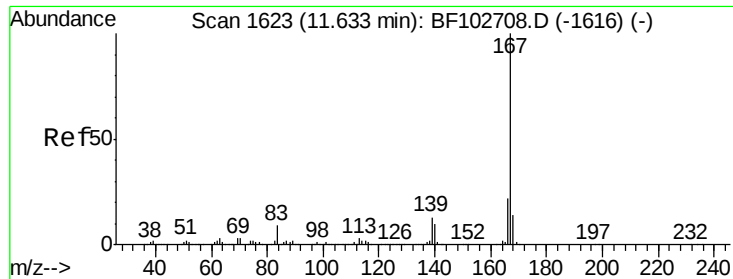
Sohil
2/20/2018 10:21:06 AM



#71
Anthracene
Concen: 36.162 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.00 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion:178 Resp: 894136
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.4 12.6 19.0





#72

Carbazole

Concen: 23.631 ng

RT: 11.64 min Scan# 1624

Delta R.T. -0.00 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Instrument :

BNA_F

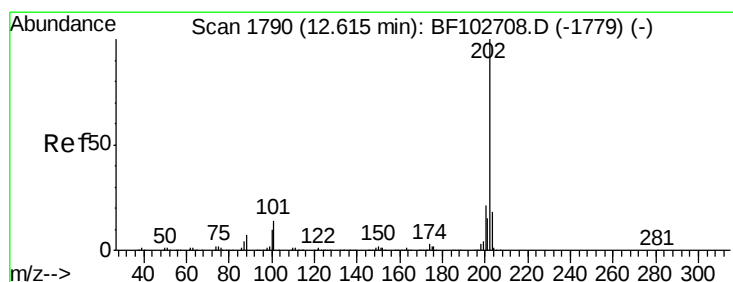
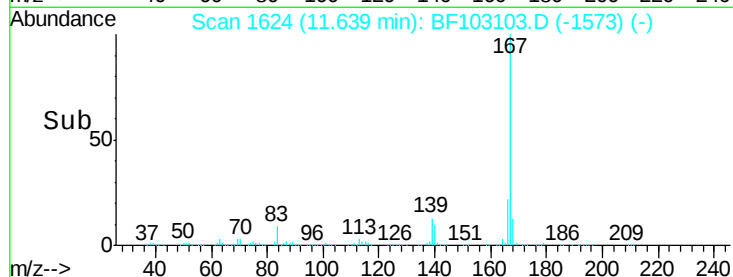
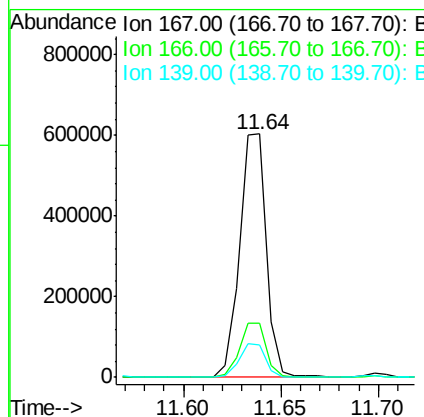
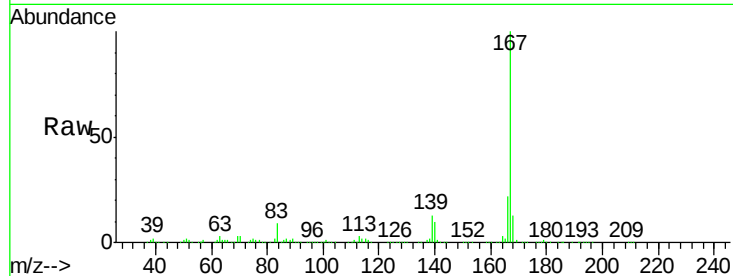
ClientSampleId :

A2 SB69 BOT-S_10

Tgt Ion:	167	Resp:	572423
Ion Ratio	Lower	Upper	
167	100		
166	22.1	17.6	26.4
139	13.2	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 78.391 ng

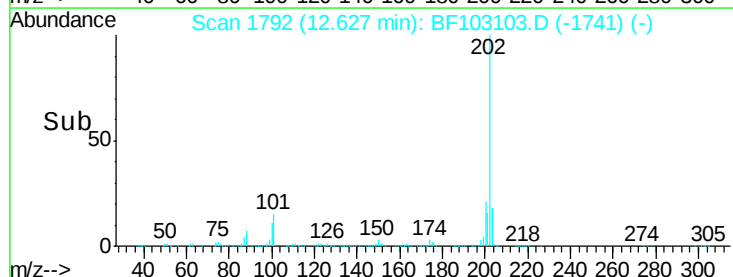
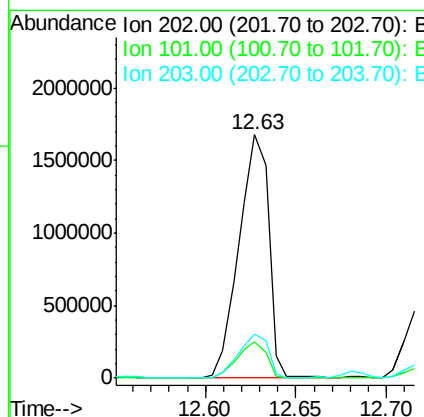
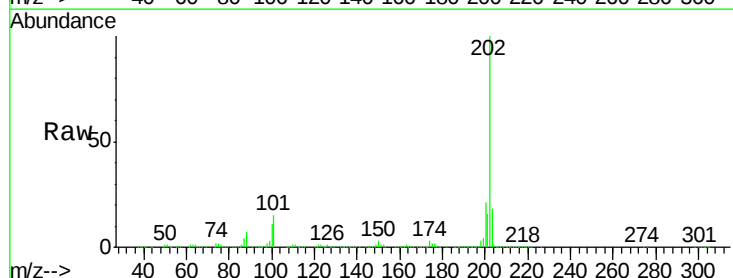
RT: 12.63 min Scan# 1792

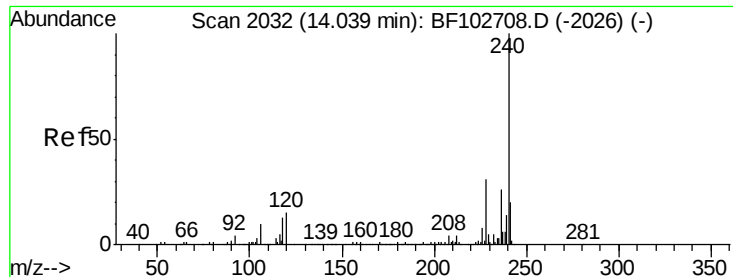
Delta R.T. -0.00 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Tgt Ion:	202	Resp:	1917394
Ion Ratio	Lower	Upper	
202	100		
101	14.8	0.0	34.1
203	17.9	0.0	38.1





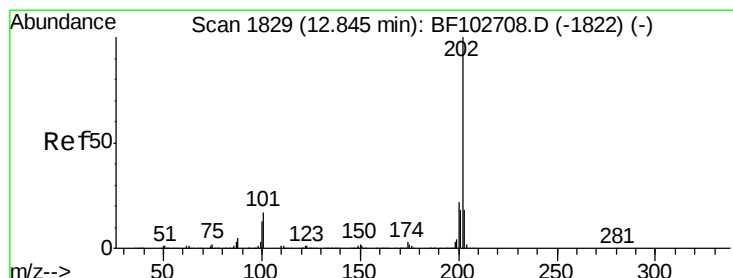
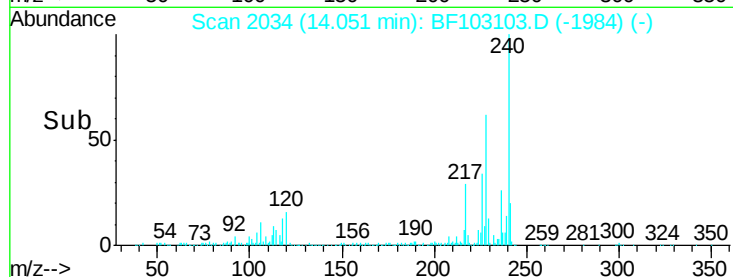
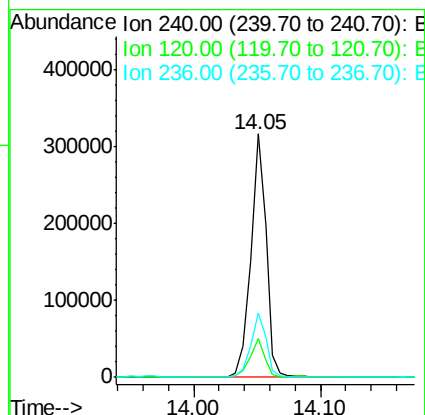
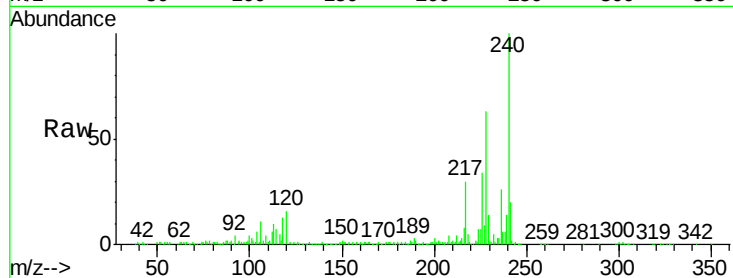
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-S_10

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	15.8	9.5	14.3#
236	26.3	20.7	31.1

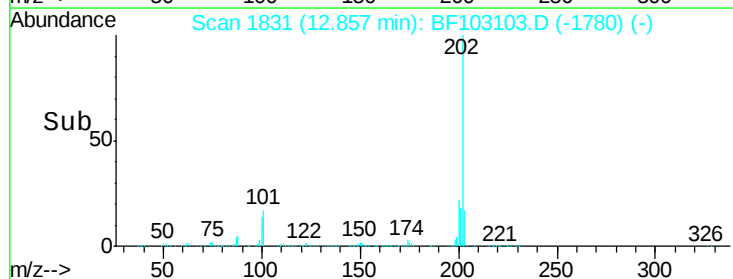
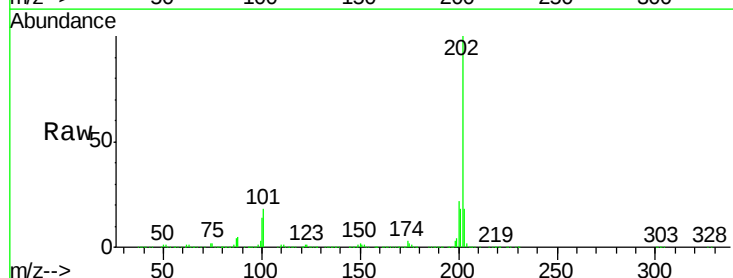
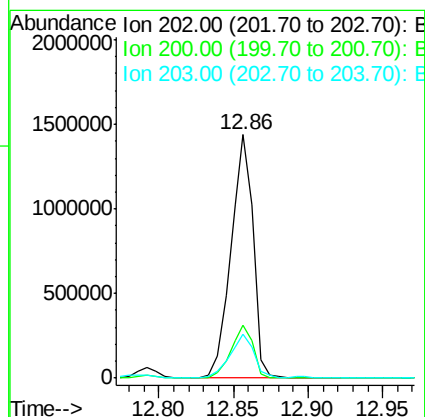
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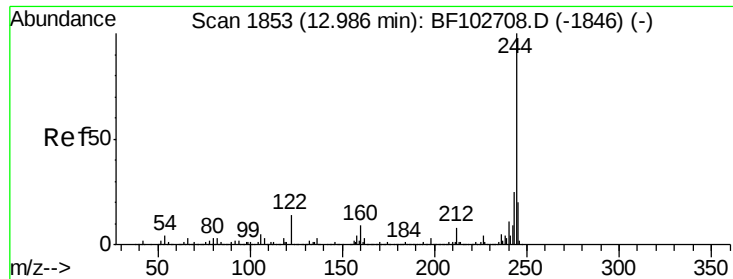
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#77
Pyrene
Concen: 71.425 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.00 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.6	17.4	26.2
203	17.9	14.3	21.5





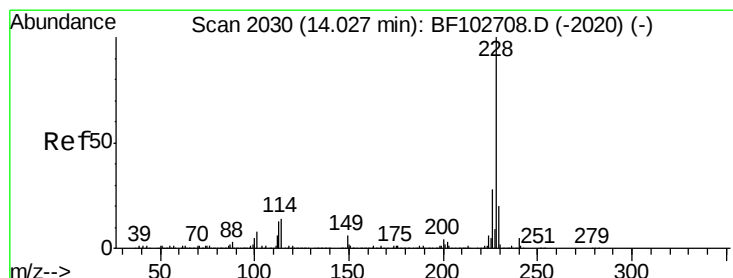
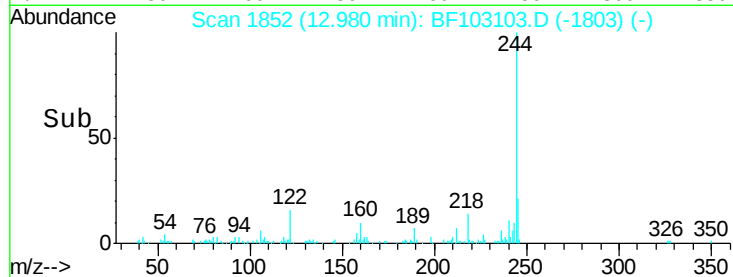
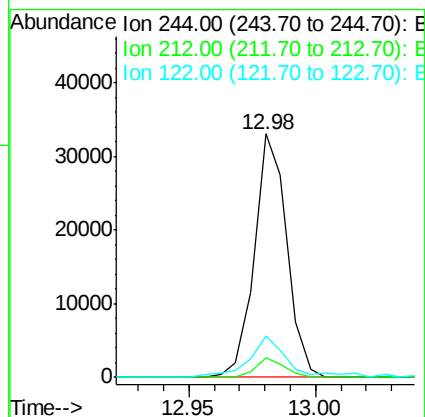
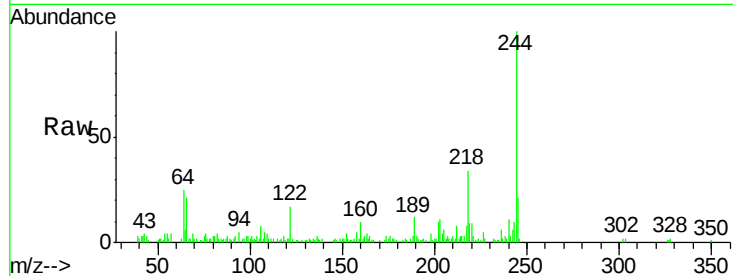
#78
 Terphenyl-d14
 Concen: 2.593 ng
 RT: 12.98 min Scan# 1852
 Delta R.T. -0.01 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-S_10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.3	5.4	8.0#
122	17.2	11.0	16.4#

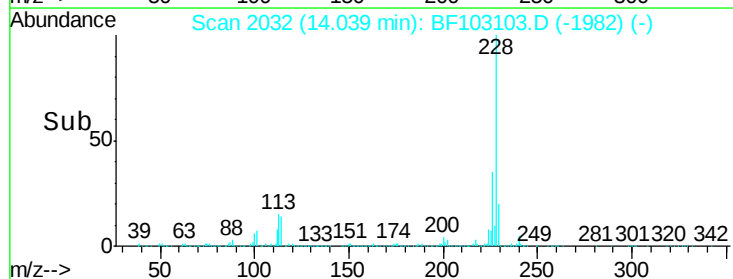
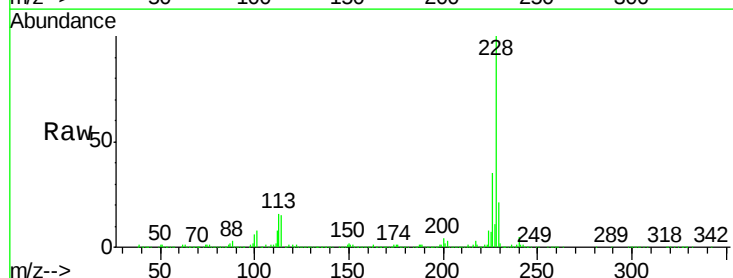
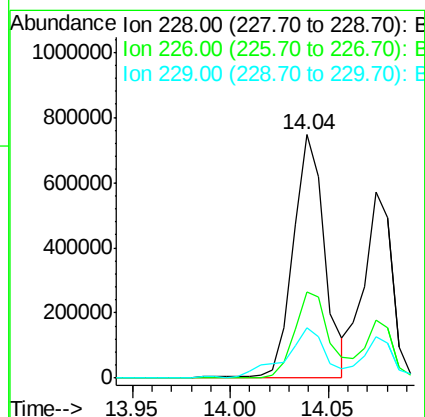
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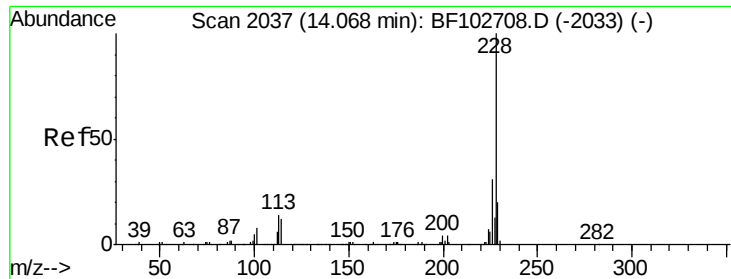
Sohil
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#80
 Benzo(a)anthracene
 Concen: 49.437 ng m
 RT: 14.04 min Scan# 2032
 Delta R.T. -0.01 min
 Lab File: BF103103.D
 Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.4	22.6	33.8#
229	20.7	15.8	23.6





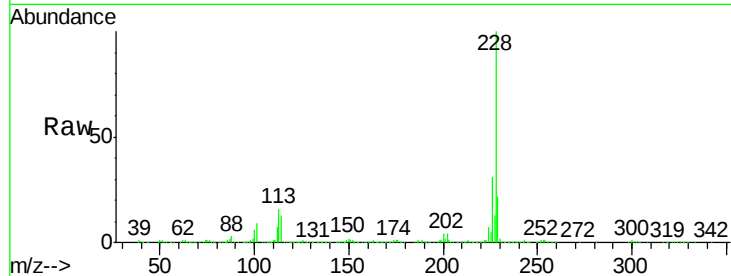
#82
Chrysene
Concen: 33.748 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-S_10

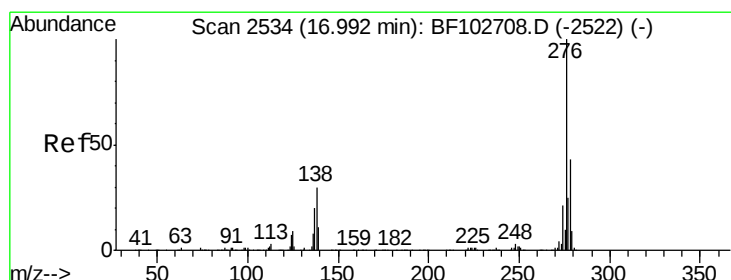
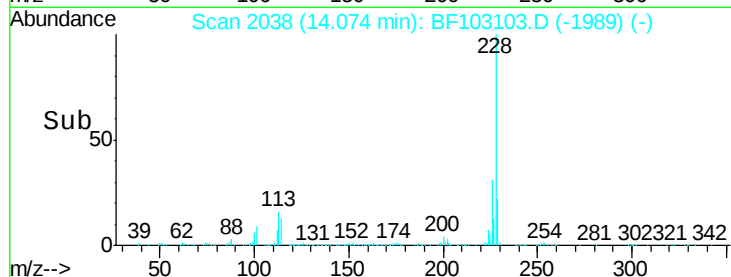
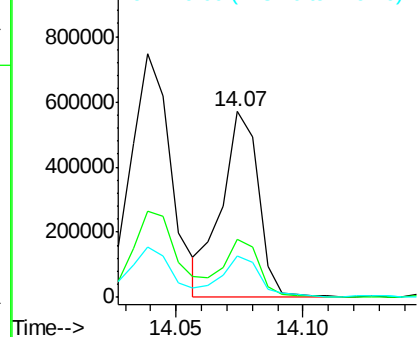
Tgt Ion	Ratio	Resp	Lower	Upper
228	100	573513		
226	31.1	25.0	37.6	
229	22.5	16.2	24.4	

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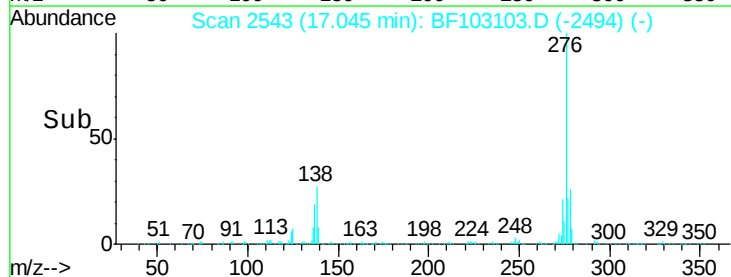
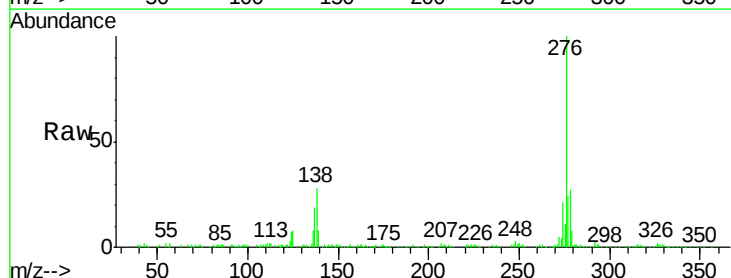
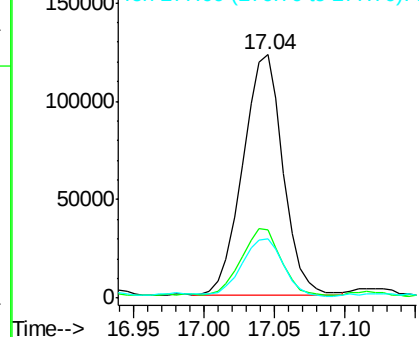
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

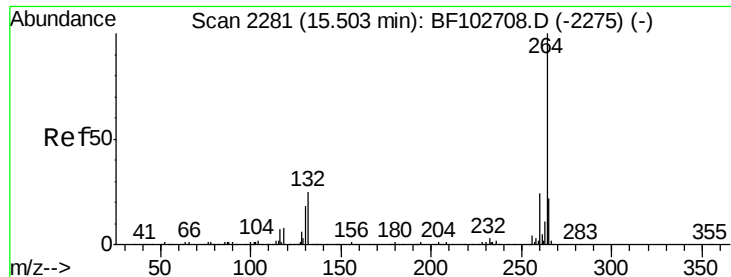


#85
Indeno(1,2,3-cd)pyrene
Concen: 17.219 ng
RT: 17.04 min Scan# 2543
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	242693		
138	27.7	25.0	37.6	
277	24.4	20.1	30.1	

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





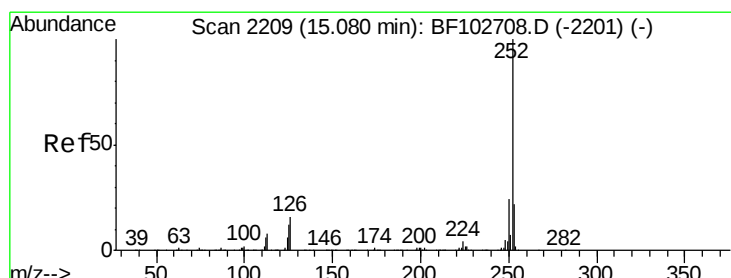
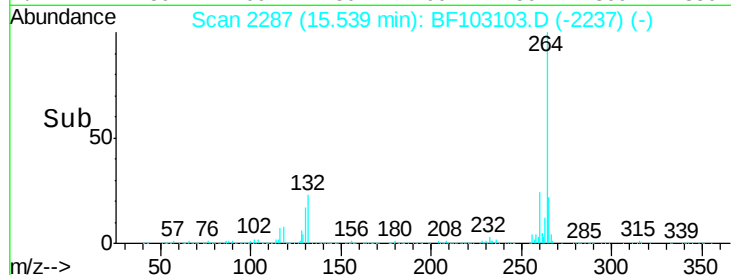
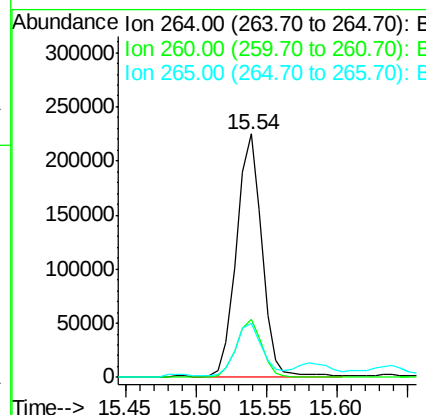
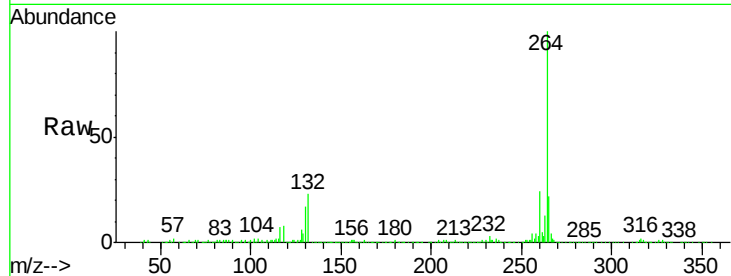
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2_SB69_BOT-S_10

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	23.8	19.2	28.8
265	22.1	17.5	26.3

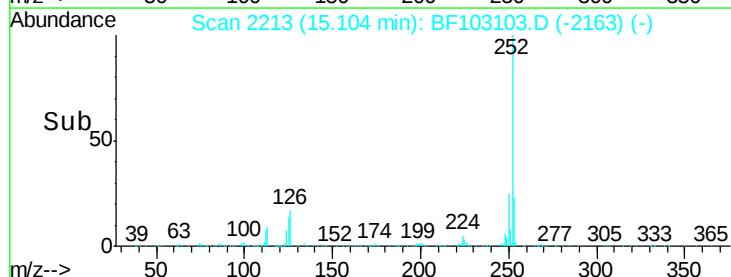
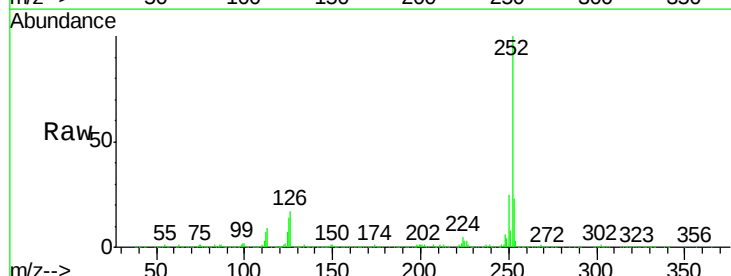
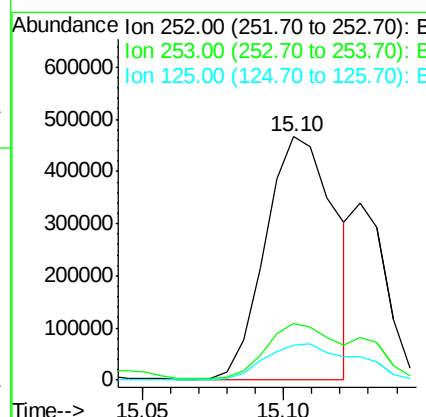
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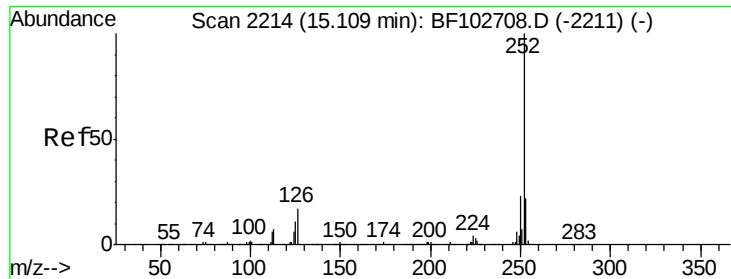
Sohil
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#87
Benzo(b)fluoranthene
Concen: 43.551 ng m
RT: 15.10 min Scan# 2213
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.5	17.0	25.6
125	14.5	9.0	13.6





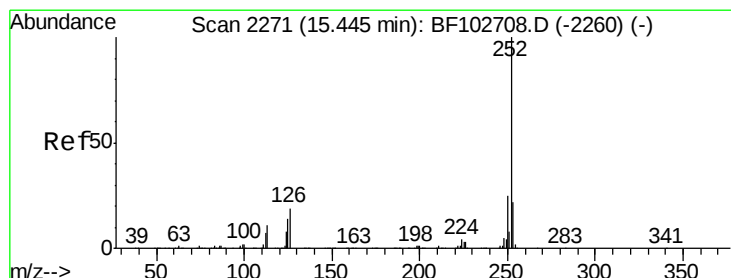
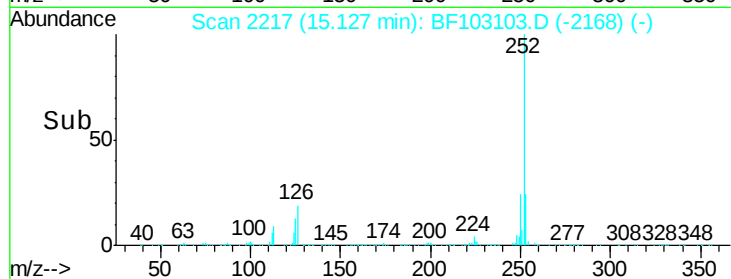
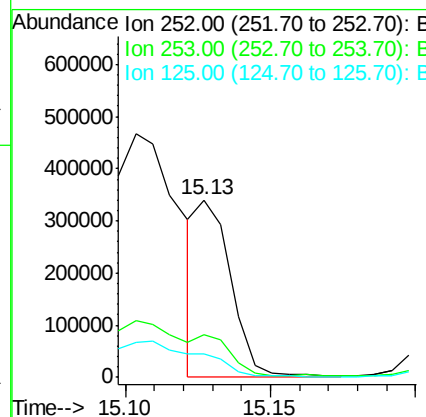
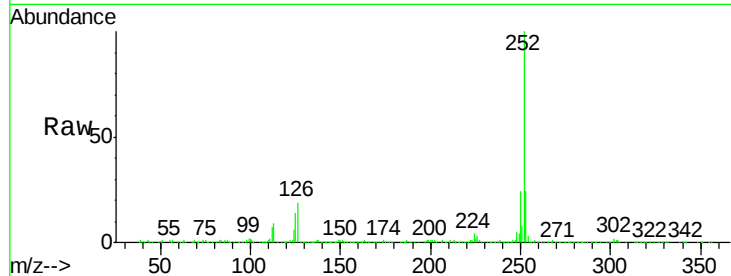
#88
Benzo(k)fluoranthene
Concen: 15.902 ng m
RT: 15.13 min Scan# 2217
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-S_10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	13.6	10.2	15.2

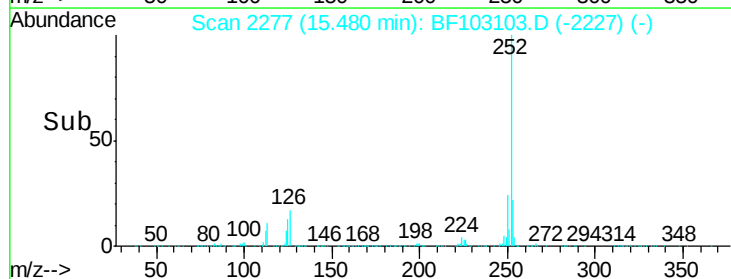
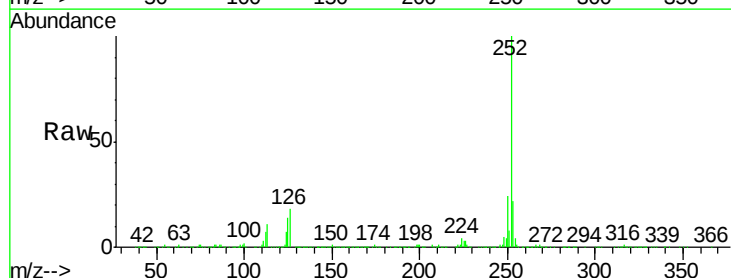
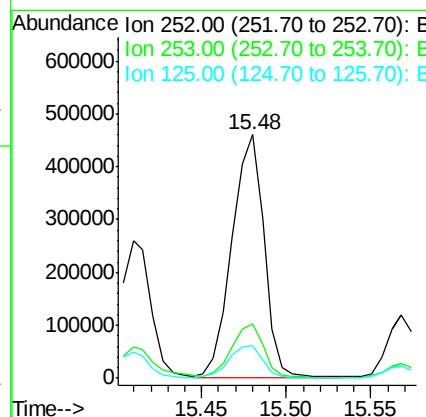
Manual Integrations
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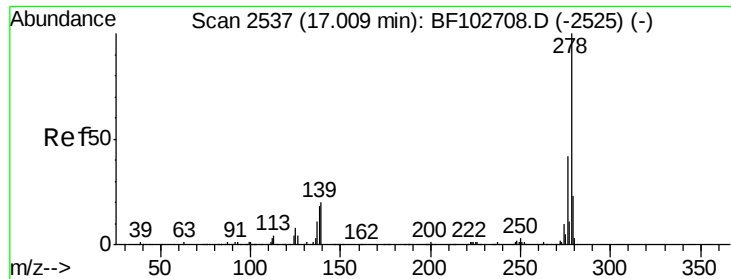
Sohil
2/20/2018 10:21:06 AM



#89
Benzo(a)pyrene
Concen: 36.942 ng
RT: 15.48 min Scan# 2277
Delta R.T. -0.01 min
Lab File: BF103103.D
Acq: 20 Feb 2018 1:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	13.6	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.218 ng

RT: 17.05 min Scan# 2544

Delta R.T. -0.02 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Instrument :

BNA_F

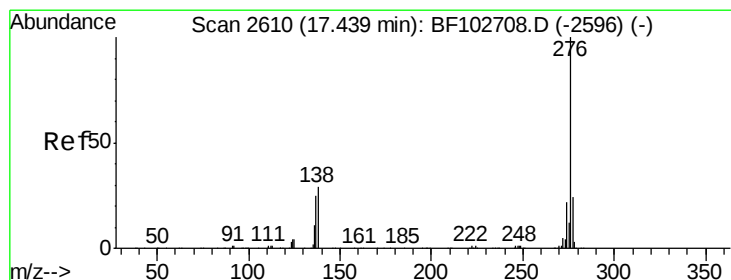
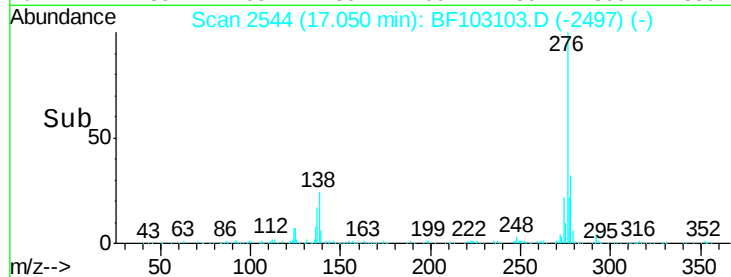
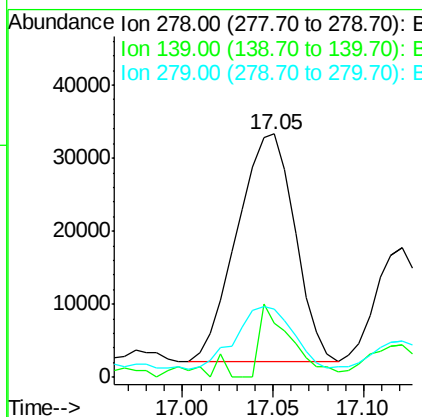
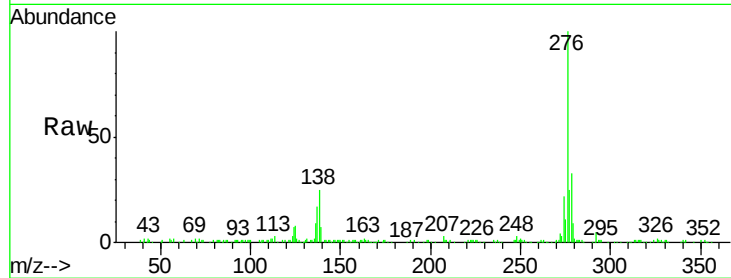
ClientSampleId :

A2 SB69 BOT-S_10

Tgt Ion:	278	Resp:	69406
Ion Ratio	Lower	Upper	
278	100		
139	22.2	15.9	23.9
279	27.8	19.0	28.4

Manual Integrations
APPROVED

Sohil
2/20/2018 10:21:06 AM



#91

Benzo(g,h,i)perylene

Concen: 15.762 ng

RT: 17.50 min Scan# 2621

Delta R.T. -0.02 min

Lab File: BF103103.D

Acq: 20 Feb 2018 1:22

Tgt Ion:	276	Resp:	205212
Ion Ratio	Lower	Upper	
276	100		
277	24.3	17.9	26.9
138	27.9	21.8	32.8

