

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF021918\
 Data File : BF103101.D
 Acq On : 20 Feb 2018 00:29
 Operator : SJ/JU
 Sample : J1600-01 20X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-N 10.5

Manual Integrations
 APPROVED

Sohil
 2/20/2018 10:21:01 AM

Quant Time: Feb 20 02:15:29 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	169580	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	703620	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	306064	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	459514	20.00	ng	0.00
75) Chrysene-d12	14.06	240	240377	20.00	ng	0.00
86) Perylene-d12	15.54	264	291838	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	63202	5.66	ng	0.00
7) Phenol-d6	6.50	99	81729	6.08	ng	-0.01
23) Nitrobenzene-d5	7.43	82	46474	4.58	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	10617	4.31	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	63548	3.45	ng	-0.01
78) Terphenyl-d14	12.99	244	41561	4.09	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.19	128	1927758	56.076	ng	99
37) 2-Methylnaphthalene	8.87	142	106988	4.753	ng	97
48) Acenaphthylene	9.77	152	655363	20.791	ng	99
51) Acenaphthene	9.95	154	324626	17.221	ng	99
54) Dibenzofuran	10.12	168	359985	13.551	ng	97
57) Fluorene	10.46	166	730933	37.816	ng	97
70) Phenanthrene	11.44	178	2771260	108.286	ng	99
71) Anthracene	11.49	178	1046858	40.218	ng	99
72) Carbazole	11.63	167	189232	7.421	ng	100
74) Fluoranthene	12.64	202	3024355	117.458	ng	100
77) Pyrene	12.87	202	2439949	129.445	ng	100
80) Benzo(a)anthracene	14.04	228	1491583m	98.666	ng	
82) Chrysene	14.09	228	1179836	77.421	ng	97
85) Indeno(1,2,3-cd)pyrene	17.06	276	582265	46.069	ng	95
87) Benzo(b)fluoranthene	15.12	252	1626886m	85.983	ng	
88) Benzo(k)fluoranthene	15.14	252	592009m	32.746	ng	
89) Benzo(a)pyrene	15.49	252	1165849	68.454	ng	95
90) Dibenzo(a,h)anthracene	17.06	278	169555m	12.266	ng	
91) Benzo(g,h,i)perylene	17.52	276	465805	34.426	ng	99

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

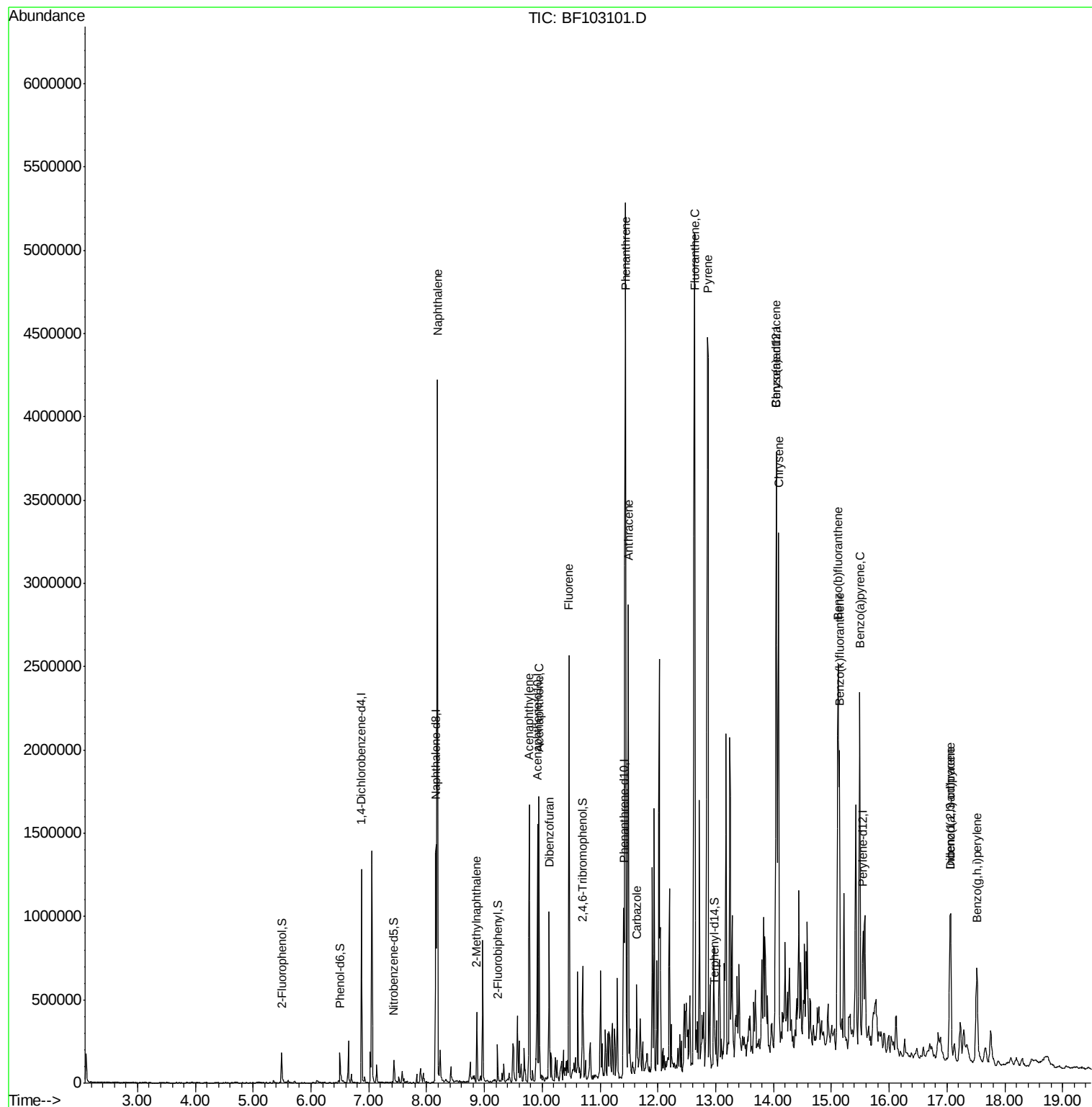
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF021918\
Data File : BF103101.D
Acq On : 20 Feb 2018 00:29
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Quant Time: Feb 20 02:15:29 2018
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020318.M
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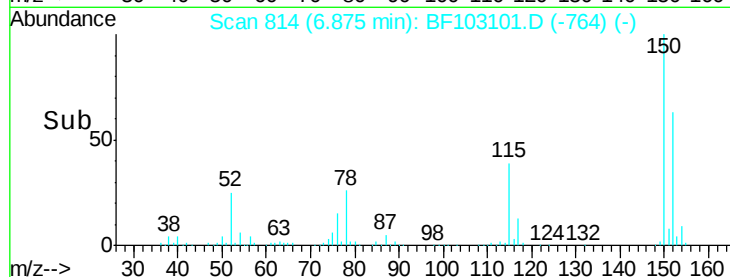
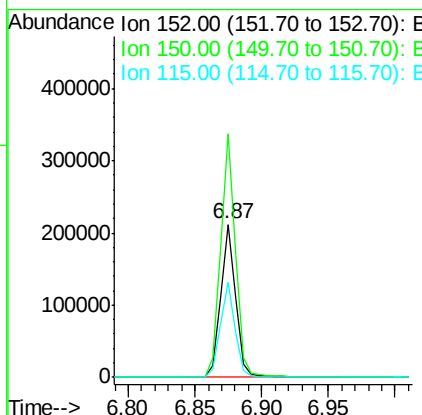
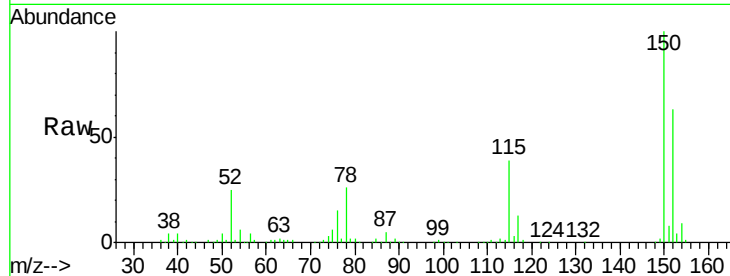
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.87 min Scan# 814
 Delta R.T. -0.01 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.6	186.8
115	62.3	50.1	75.1

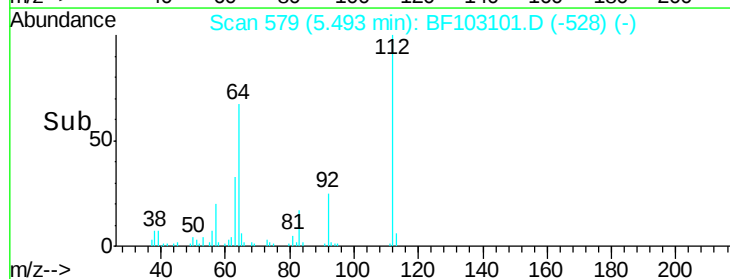
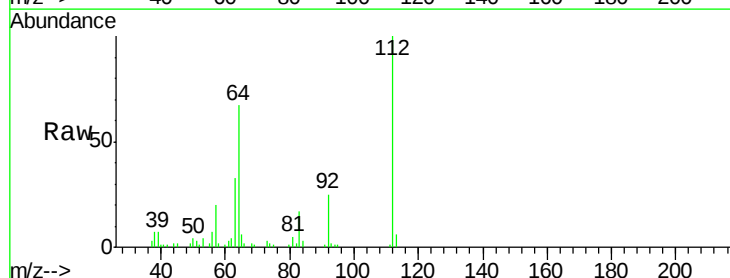
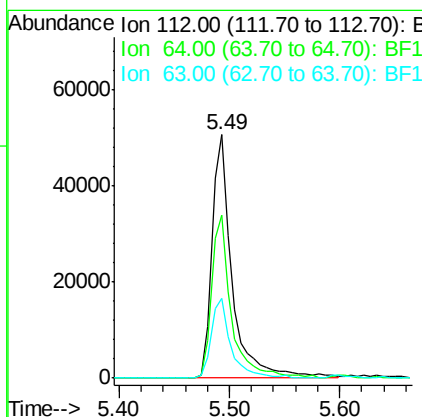
Manual Integrations
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#5
 2-Fluorophenol
 Concen: 5.660 ng
 RT: 5.49 min Scan# 579
 Delta R.T. 0.00 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.8	47.9	71.9
63	32.8	23.7	35.5





#7

Phenol-d6

Concen: 6.079 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Instrument :

BNA_F

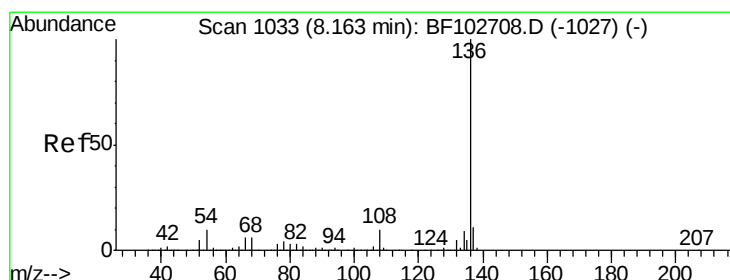
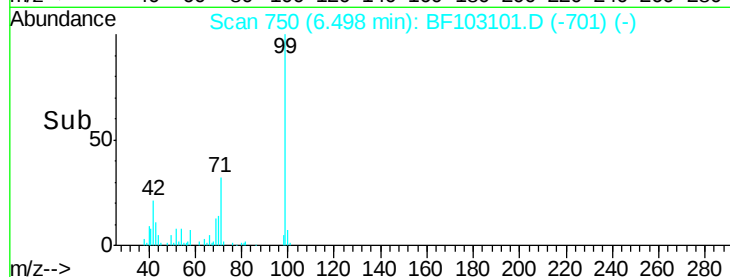
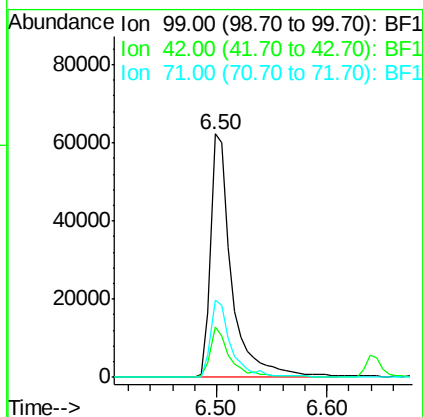
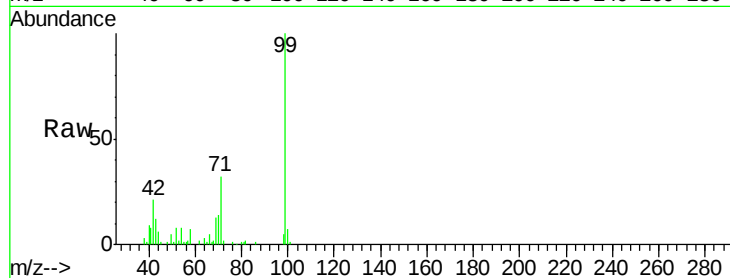
ClientSampleId :

A2 SB69 BOT-N 10.5

Tgt Ion:	99	Resp:	81729
Ion Ratio	Lower	Upper	
99	100		
42	20.9	14.5	21.7
71	31.9	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

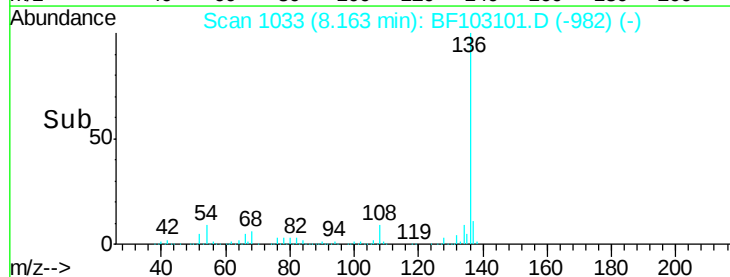
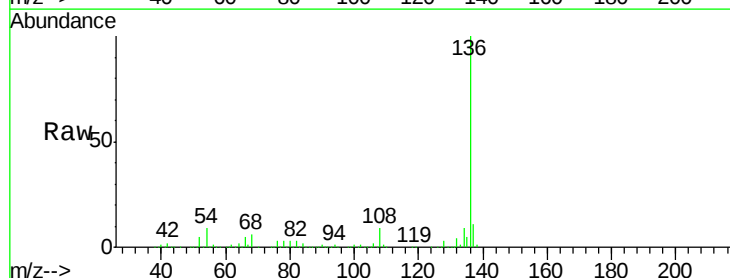
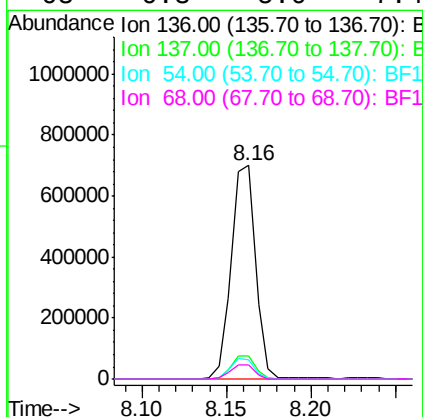
RT: 8.16 min Scan# 1033

Delta R.T. 0.00 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Tgt Ion:	136	Resp:	703620
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	9.0	6.6	9.8
68	6.3	5.0	7.4





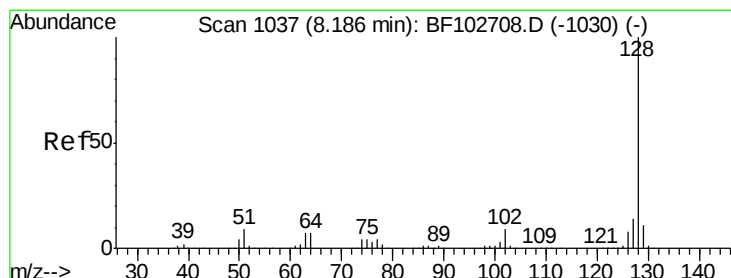
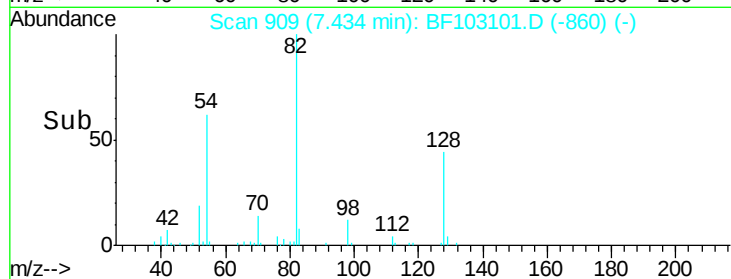
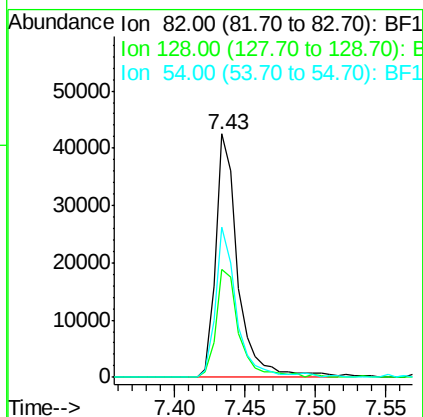
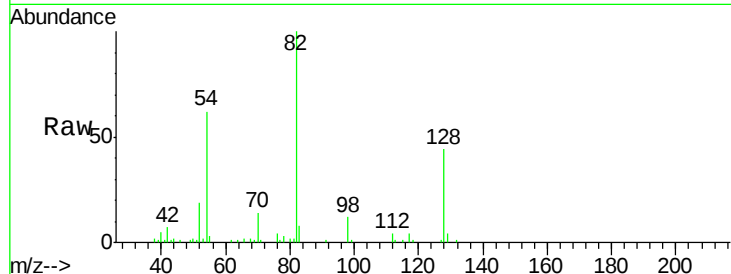
#23
 Nitrobenzene-d5
 Concen: 4.582 ng
 RT: 7.43 min Scan# 909
 Delta R.T. -0.01 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.2	36.1	54.1
54	61.8	41.4	62.2

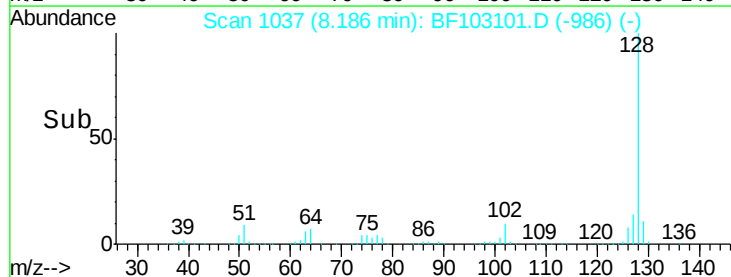
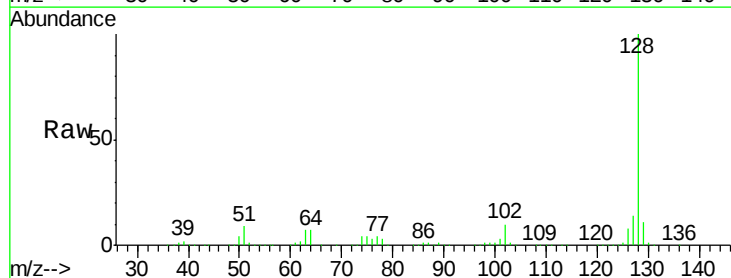
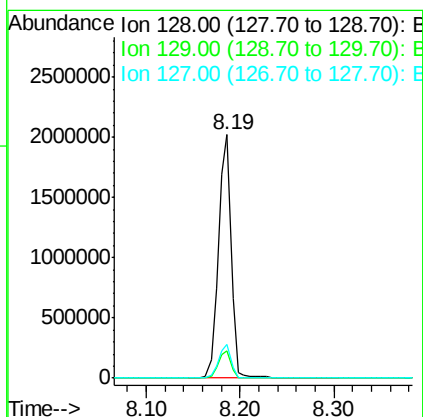
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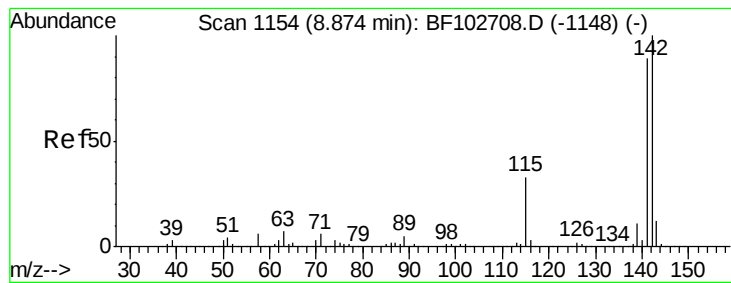
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#31
 Naphthalene
 Concen: 56.076 ng
 RT: 8.19 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.9	10.9	16.3





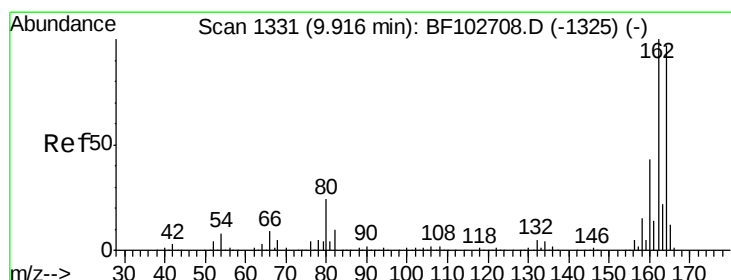
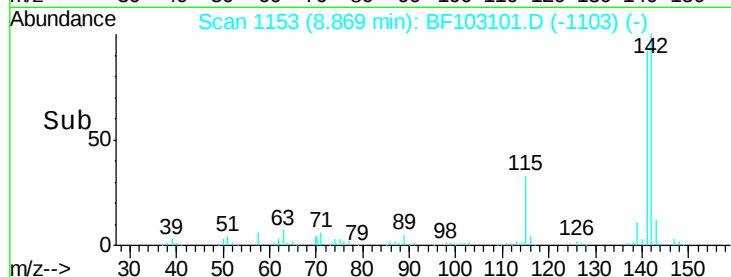
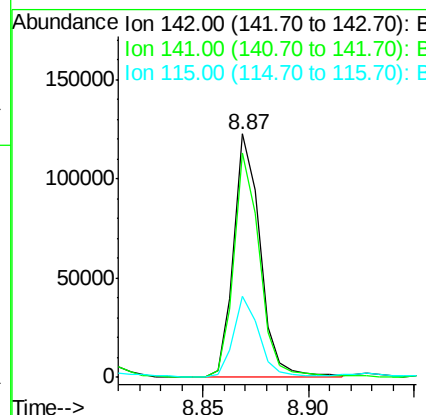
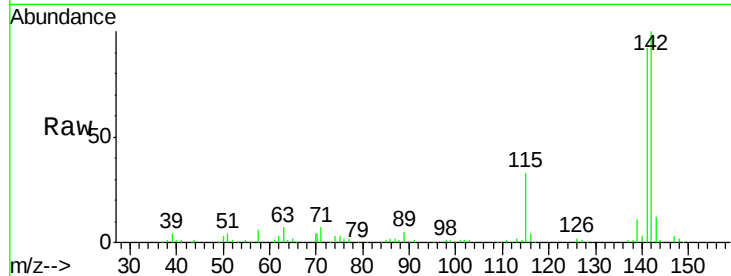
#37
 2-Methylnaphthalene
 Concen: 4.753 ng
 RT: 8.87 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	106988		
141	92.4	70.8	106.2	
115	33.4	26.1	39.1	

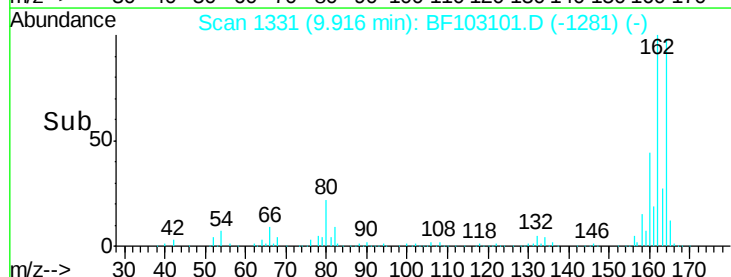
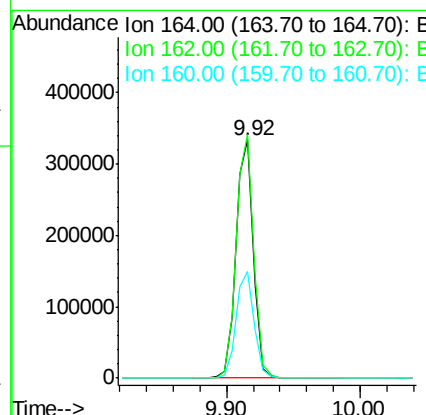
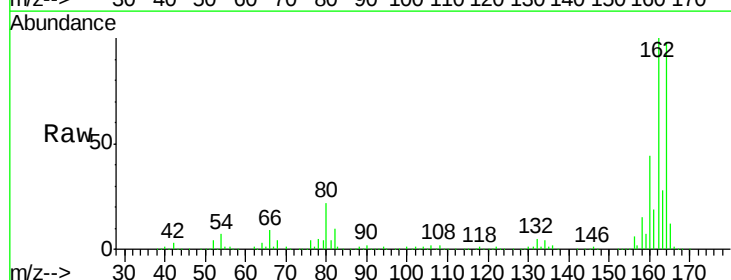
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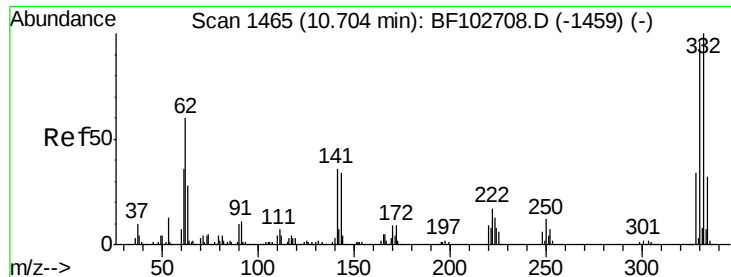
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	306064		
162	102.2	86.1	129.1	
160	45.0	38.3	57.5	





#41

2,4,6-Tribromophenol

Concen: 4.310 ng

RT: 10.70 min Scan# 1465

Delta R.T. -0.01 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Instrument :

BNA_F

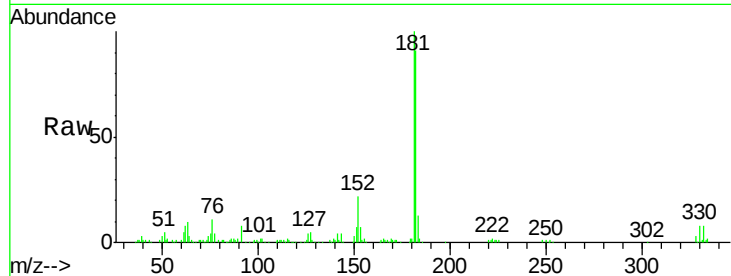
ClientSampleId :

A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	10617		
332	104.2	77.0	115.6	
141	62.1	29.9	44.9	

Manual Integrations
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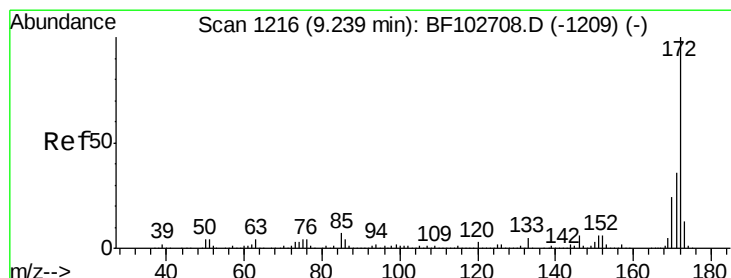
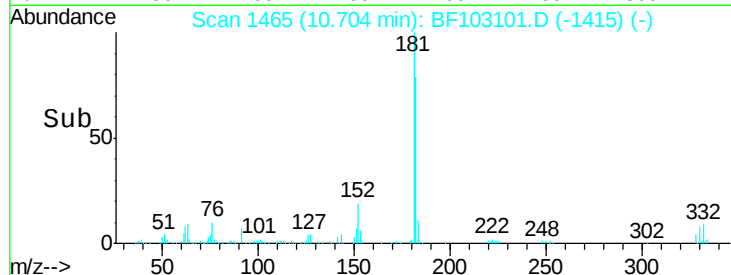
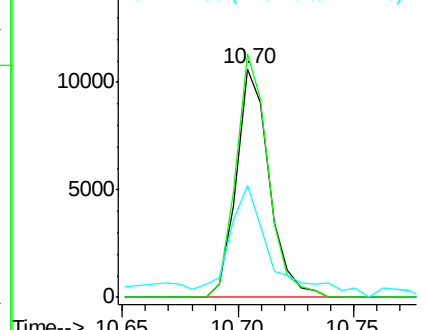


Abundance

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: 3.445 ng

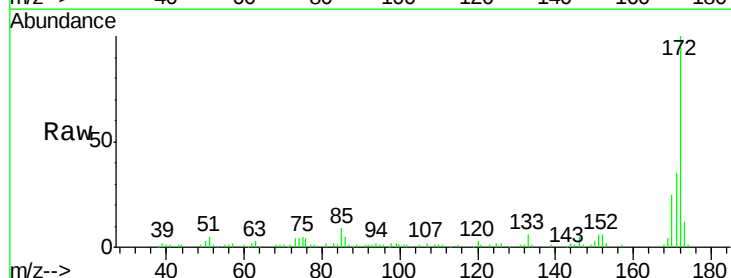
RT: 9.23 min Scan# 1214

Delta R.T. -0.01 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	63548		
171	35.4	29.7	44.5	
170	24.6	19.6	29.4	

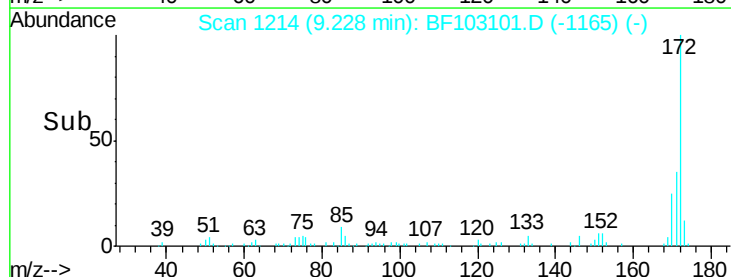
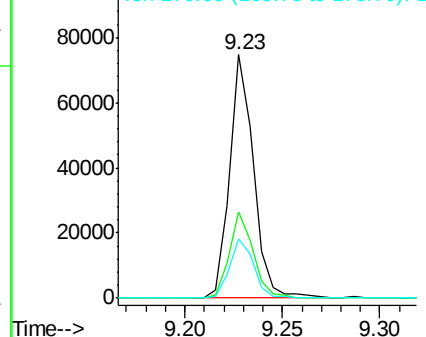


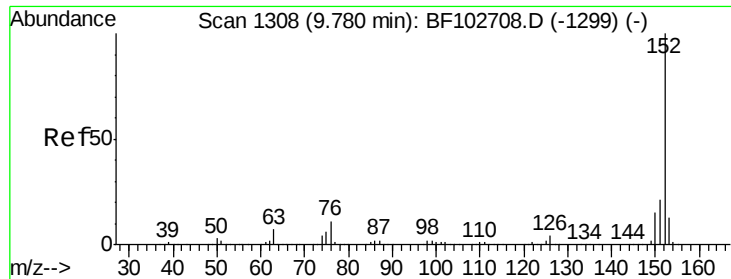
Abundance

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





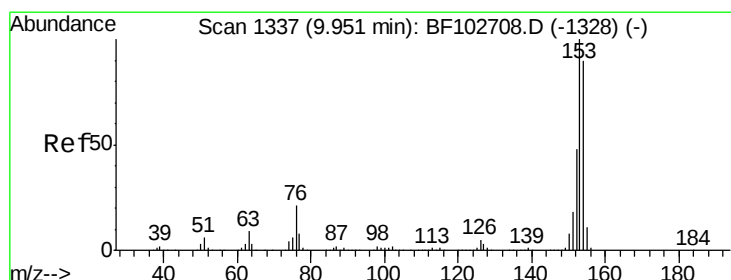
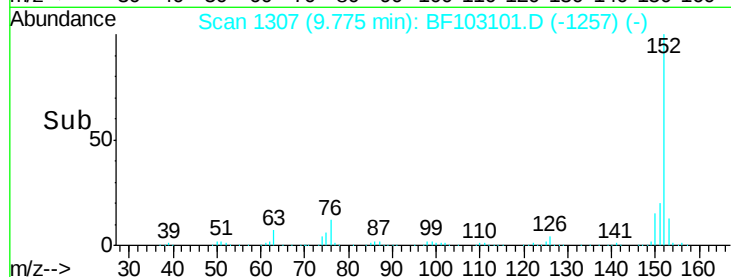
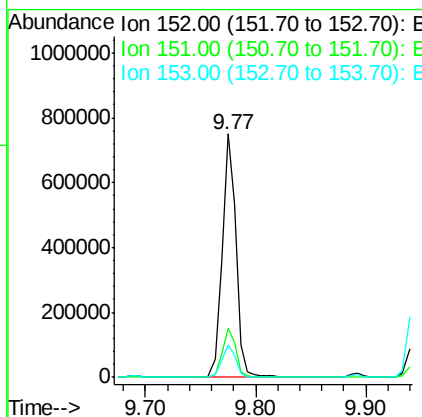
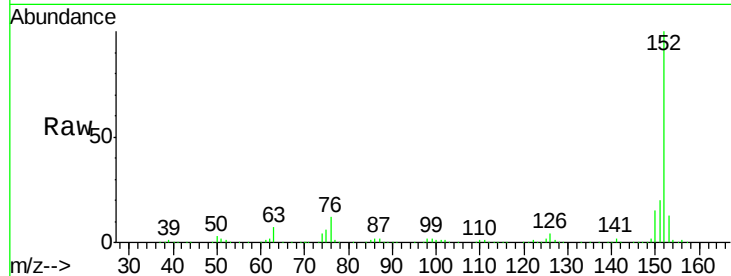
#48
Acenaphthylene
Concen: 20.791 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	655363		
151	20.0		16.3	24.5
153	13.4		10.7	16.1

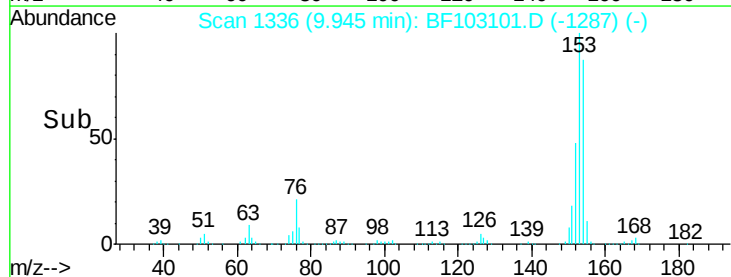
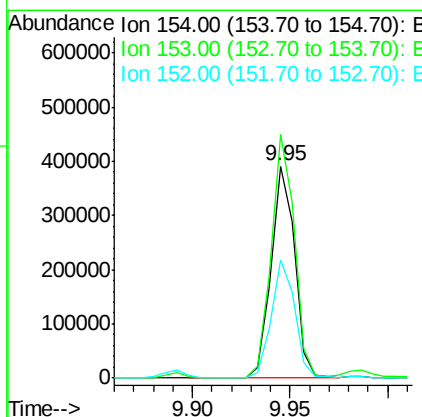
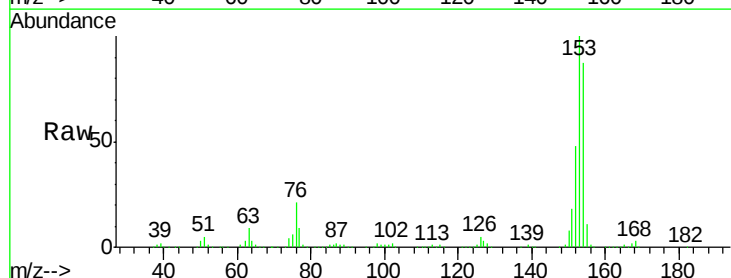
Manual Integrations
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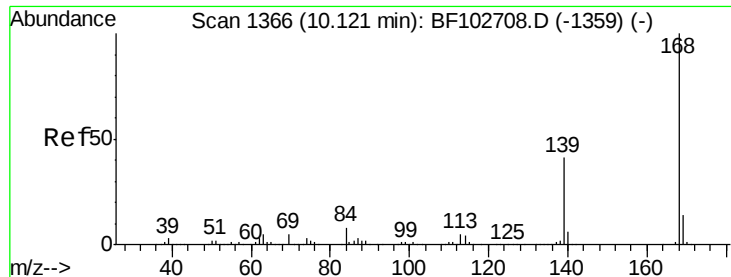
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#51
Acenaphthene
Concen: 17.221 ng
RT: 9.95 min Scan# 1336
Delta R.T. -0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	324626		
153	114.9		91.2	136.8
152	55.7		43.8	65.8





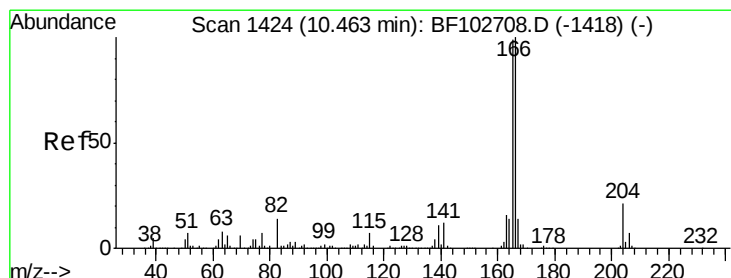
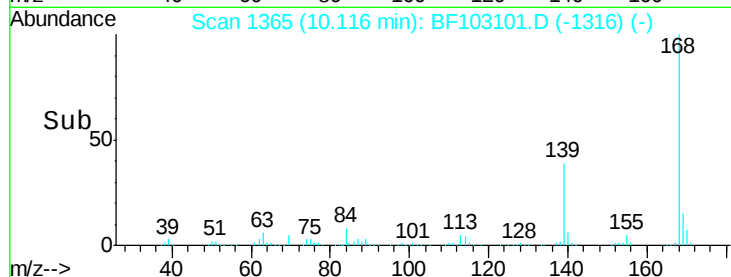
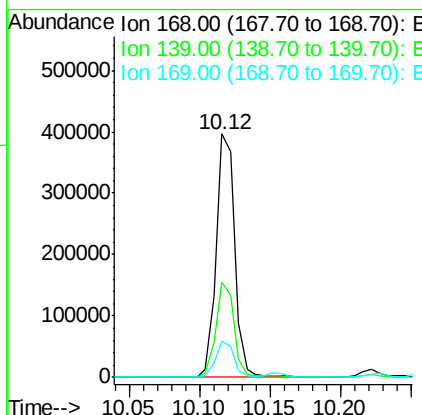
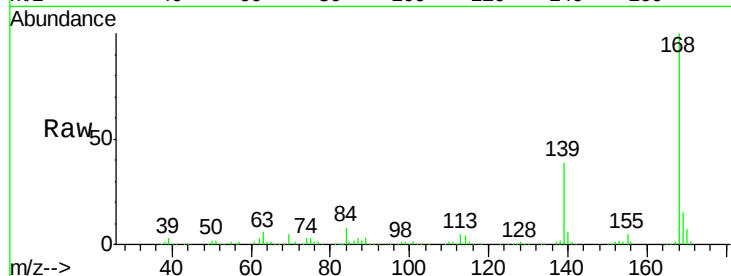
#54
Dibenzenofuran
Concen: 13.551 ng
RT: 10.12 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	359985		
139	39.3	30.1	45.1	
169	14.7	10.9	16.3	

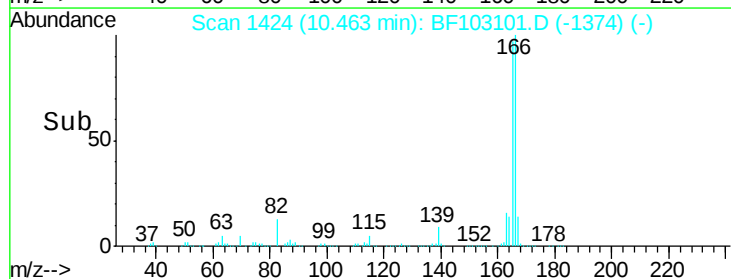
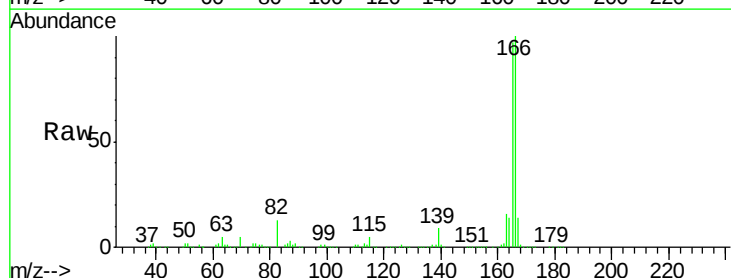
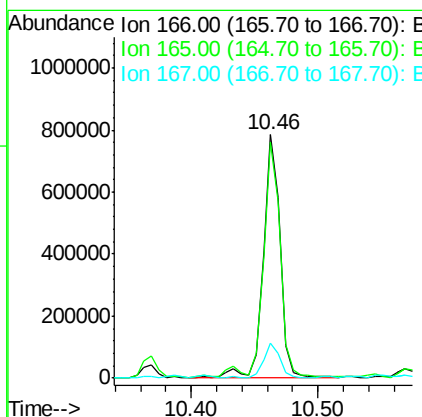
Manual Integrations
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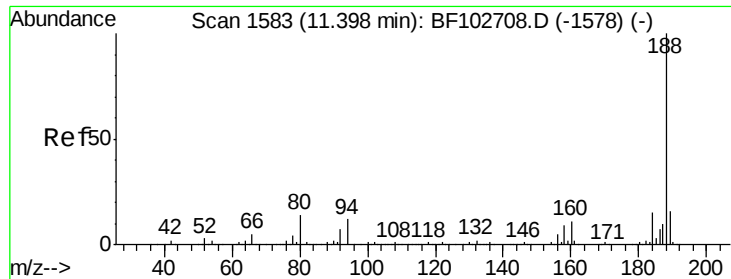
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#57
Fluorene
Concen: 37.816 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	730933		
165	97.1	79.8	119.8	
167	14.2	10.6	16.0	





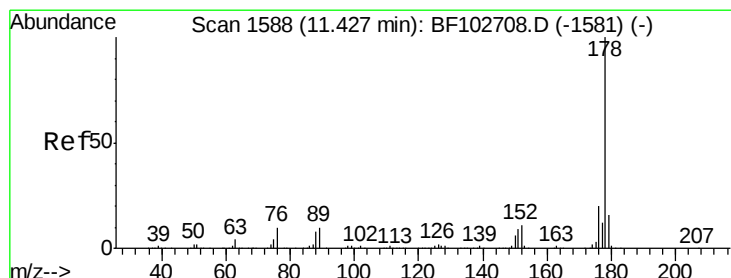
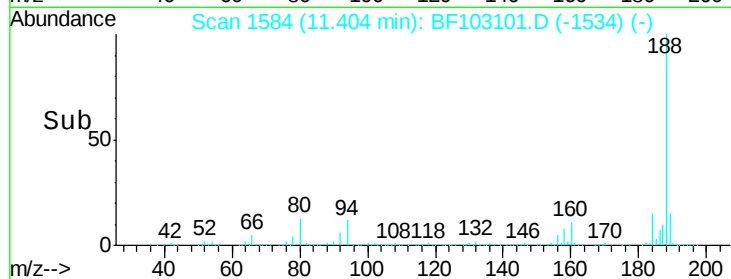
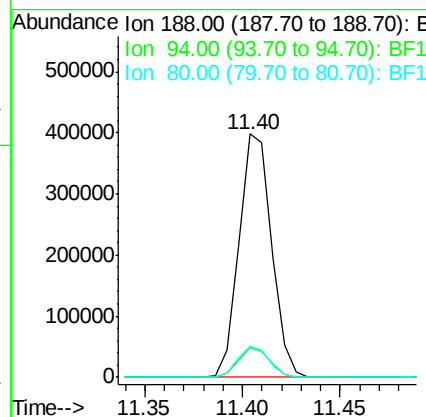
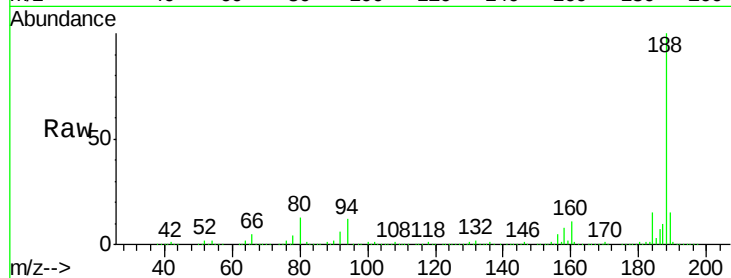
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	459514		
94	12.1	8.5	12.7	
80	12.8	9.2	13.8	

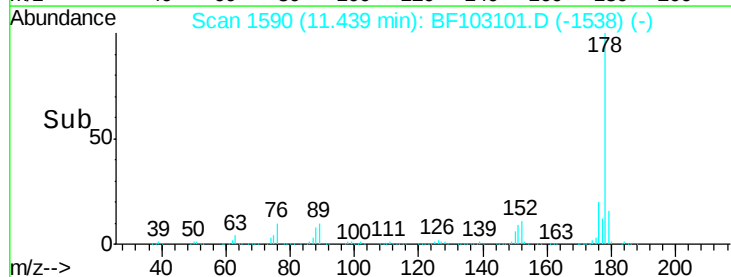
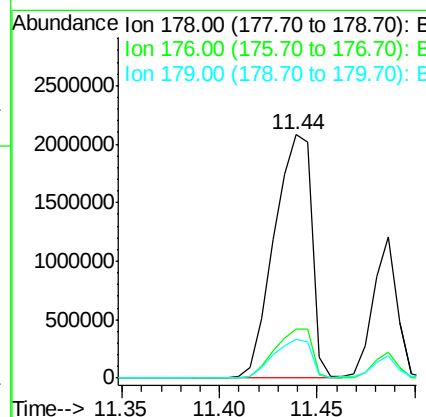
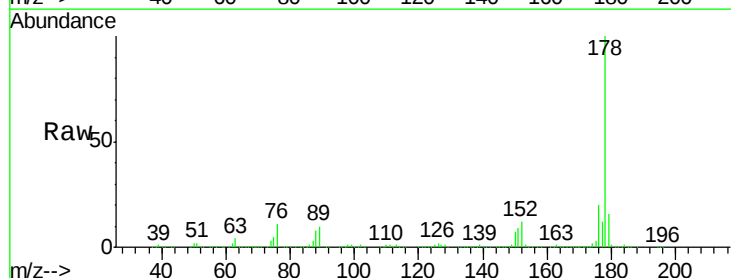
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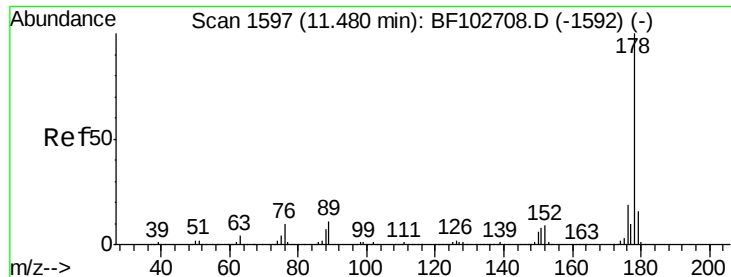
Sohil
2/20/2018 10:21:01 AM



#70
Phenanthrene
Concen: 108.286 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2771260		
176	20.2	15.8	23.8	
179	16.1	13.0	19.6	





#71

Anthracene

Concen: 40.218 ng

RT: 11.49 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Instrument :

BNA_F

ClientSampleId :

A2 SB69 BOT-N 10.5

Tgt Ion:178 Resp: 1046858

Ion Ratio Lower Upper

178 100

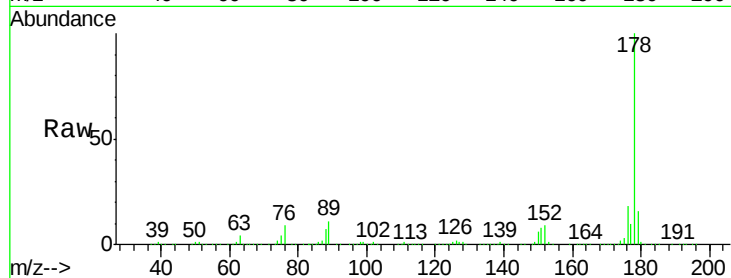
176 18.4 15.4 23.2

179 15.9 12.6 19.0

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Sohil

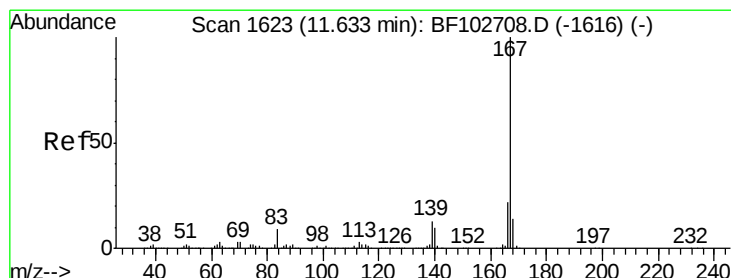
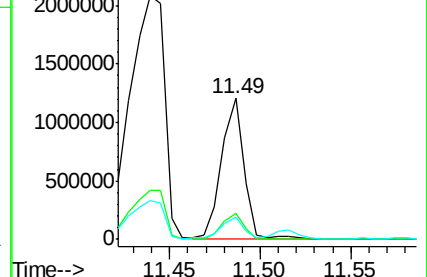
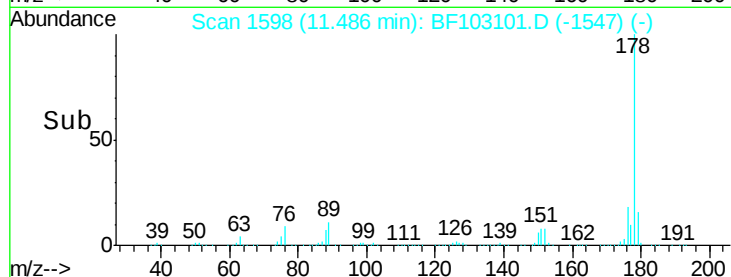
2/20/2018 10:21:01 AM



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: 7.421 ng

RT: 11.63 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

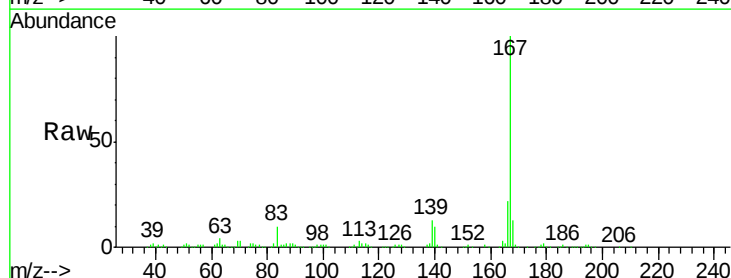
Tgt Ion:167 Resp: 189232

Ion Ratio Lower Upper

167 100

166 22.0 17.6 26.4

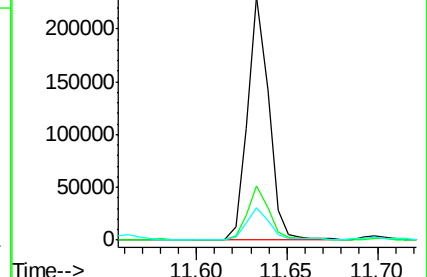
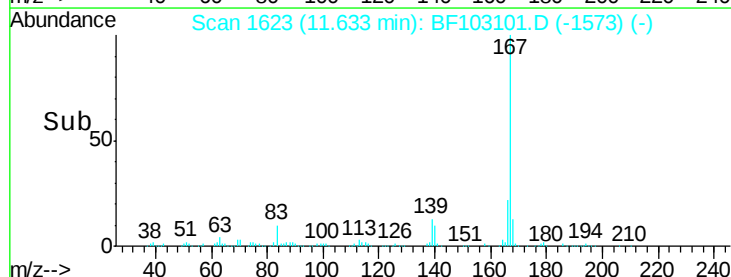
139 13.5 10.9 16.3

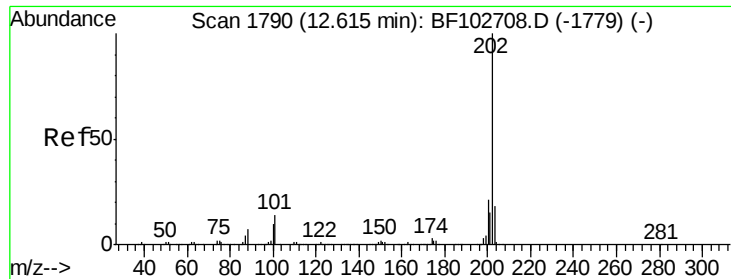


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 117.458 ng

RT: 12.64 min Scan# 1794

Delta R.T. 0.01 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Instrument :

BNA_F

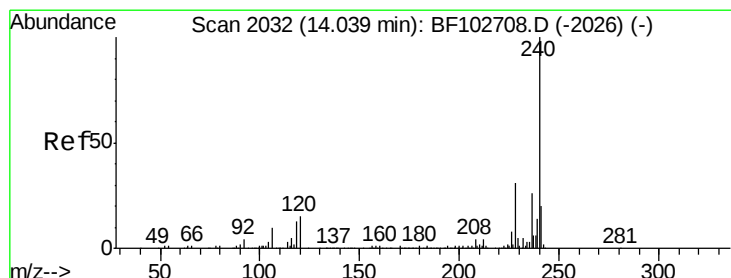
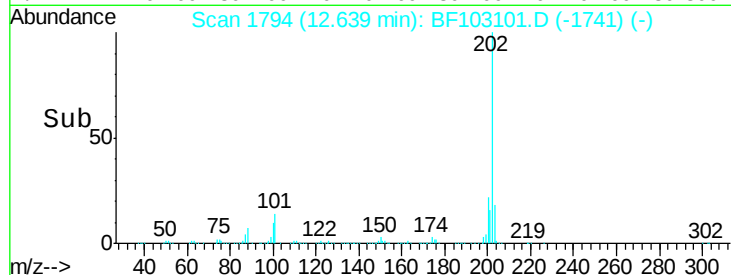
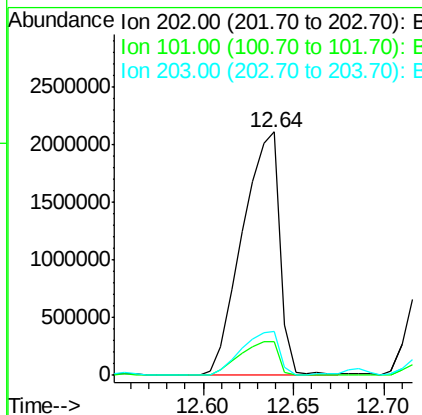
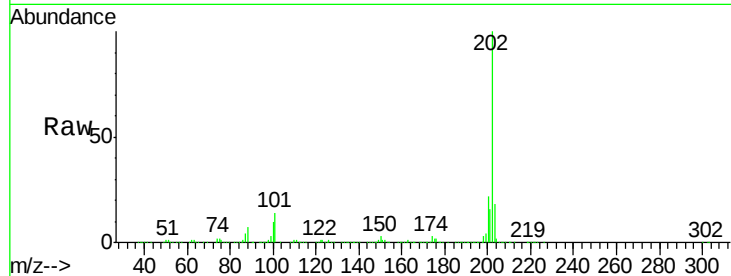
ClientSampleId :

A2 SB69 BOT-N 10.5

Tgt Ion:	202	Resp:	3024355
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	34.1
203	17.9	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

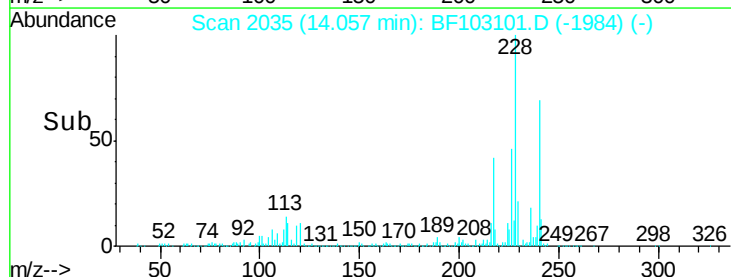
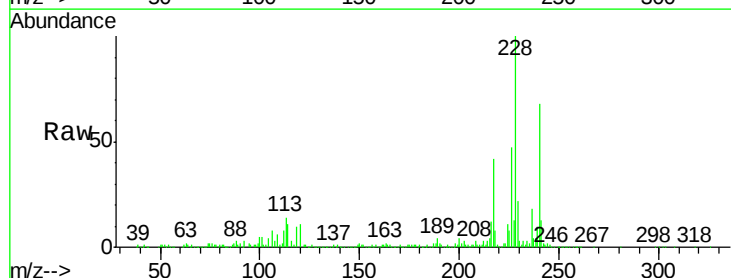
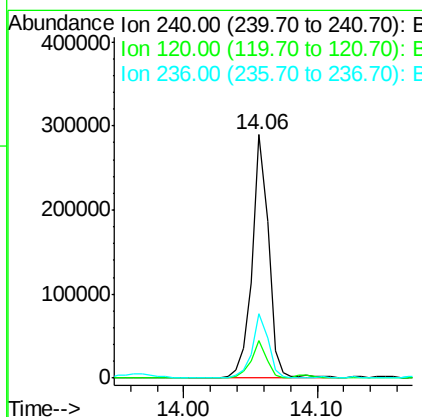
RT: 14.06 min Scan# 2035

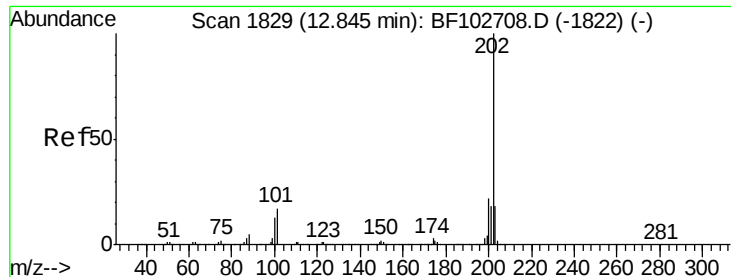
Delta R.T. 0.00 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Tgt Ion:	240	Resp:	240377
Ion Ratio	Lower	Upper	
240	100		
120	15.6	9.5	14.3#
236	26.2	20.7	31.1





#77

Pyrene

Concen: 129.445 ng

RT: 12.87 min Scan# 1833

Delta R.T. 0.01 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Instrument :

BNA_F

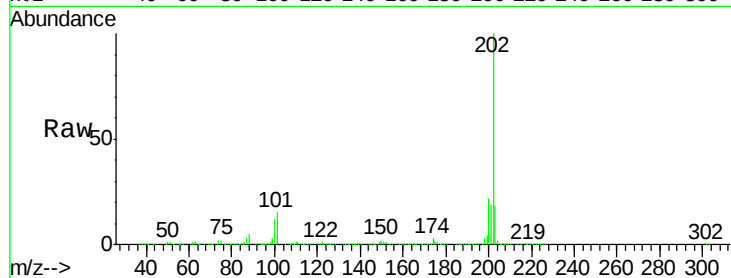
ClientSampleId :

A2 SB69 BOT-N 10.5

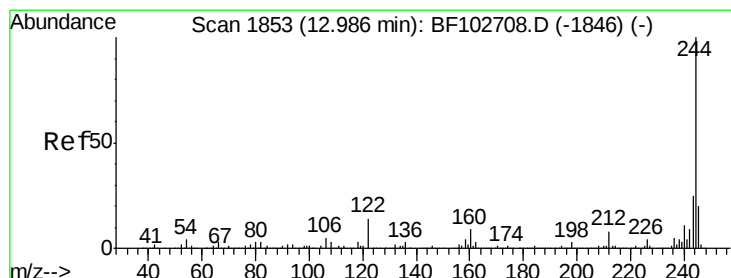
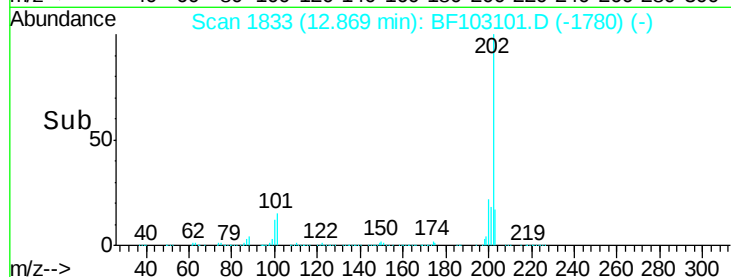
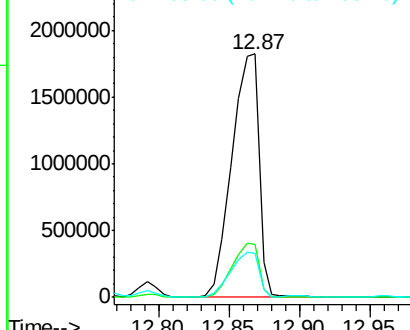
Tgt Ion:	202	Resp:	2439949
Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	17.9	14.3	21.5

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 4.094 ng

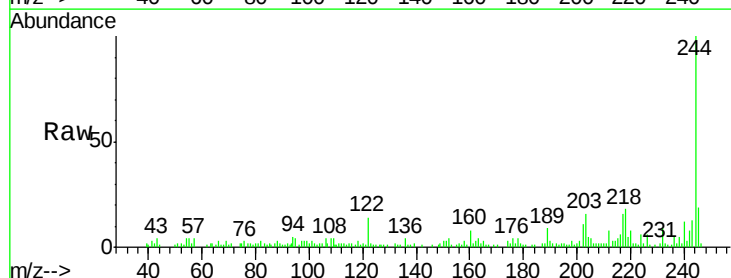
RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

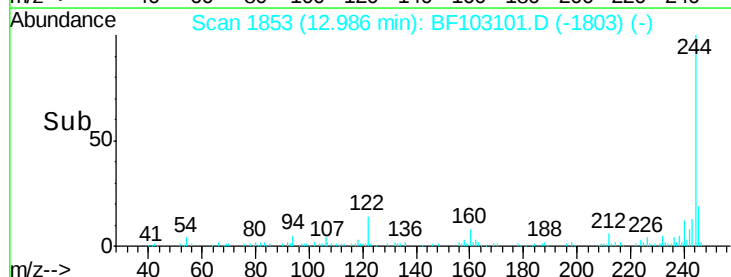
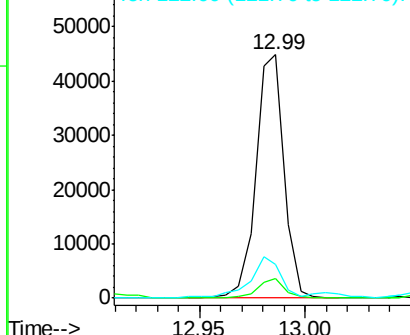
Lab File: BF103101.D

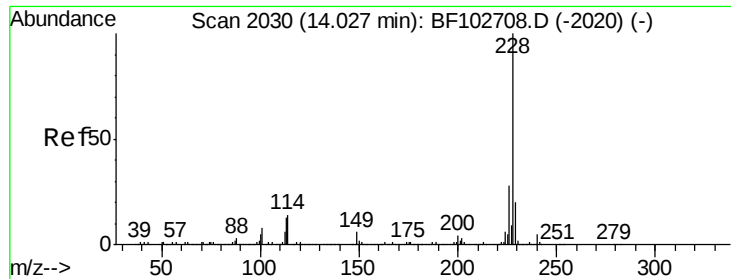
Acq: 20 Feb 2018 00:29

Tgt Ion:	244	Resp:	41561
Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.4	8.0
122	13.6	11.0	16.4



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





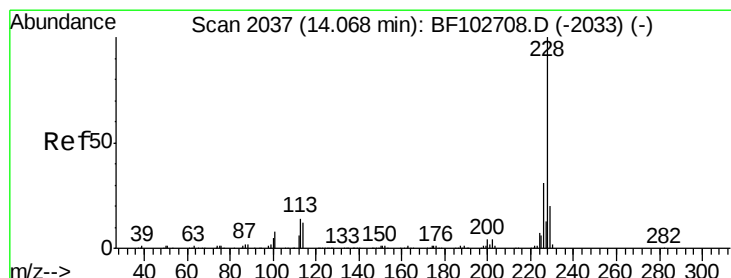
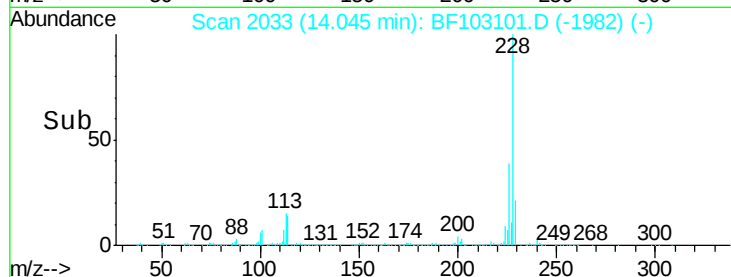
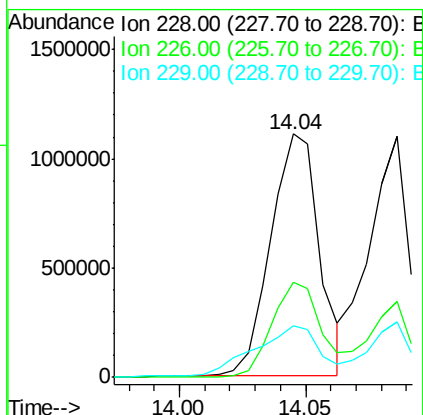
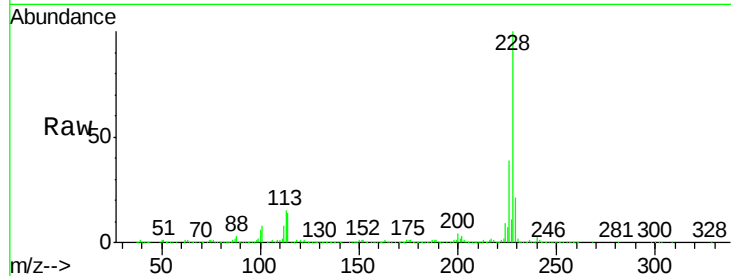
#80
Benzo(a)anthracene
Concen: 98.666 ng m
RT: 14.04 min Scan# 2033
Delta R.T. 0.00 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5

Tgt Ion: 228 Resp: 1491583
Ion Ratio Lower Upper
228 100
226 39.3 22.6 33.8#
229 21.2 15.8 23.6

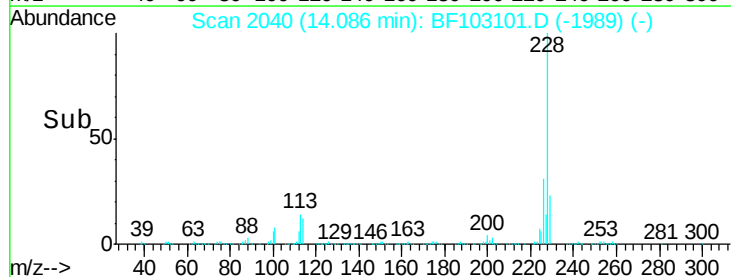
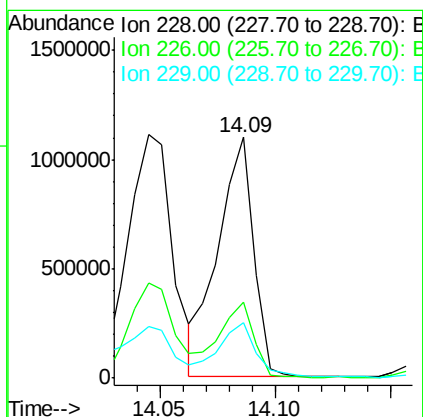
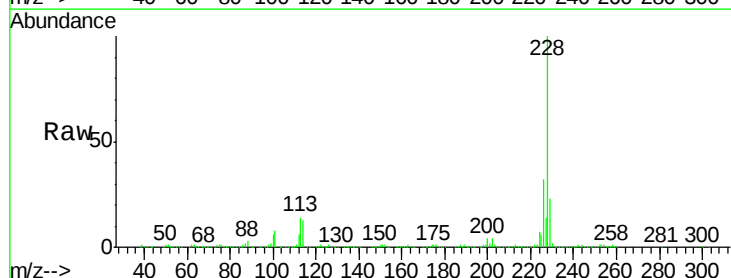
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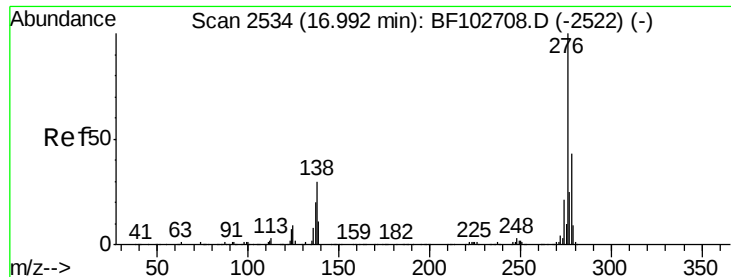
Sohil
2/20/2018 10:21:01 AM



#82
Chrysene
Concen: 77.421 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.00 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Tgt Ion: 228 Resp: 1179836
Ion Ratio Lower Upper
228 100
226 31.8 25.0 37.6
229 23.3 16.2 24.4





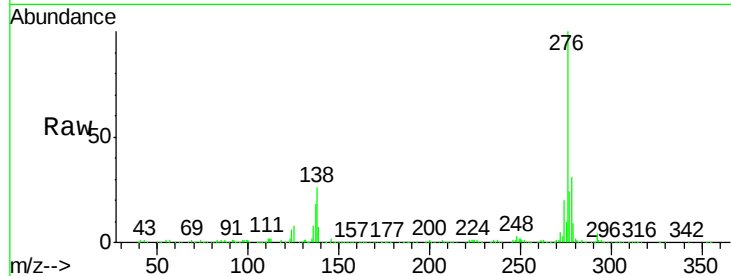
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 46.069 ng
 RT: 17.06 min Scan# 2546
 Delta R.T. 0.01 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB69 BOT-N 10.5

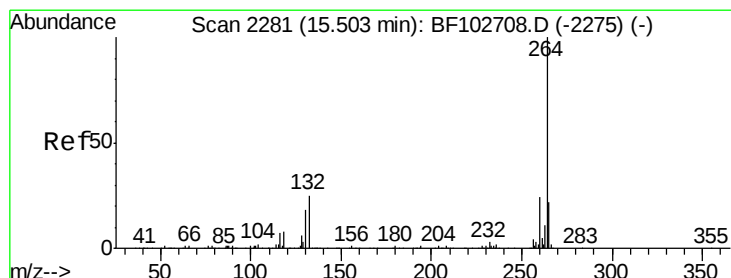
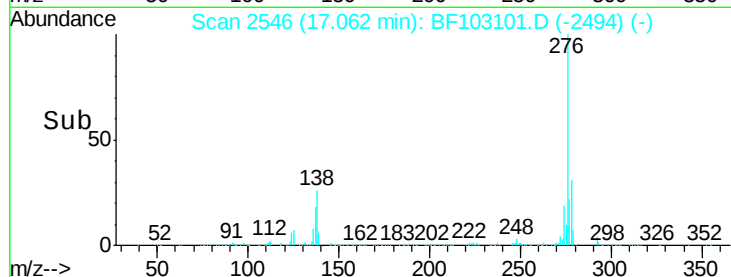
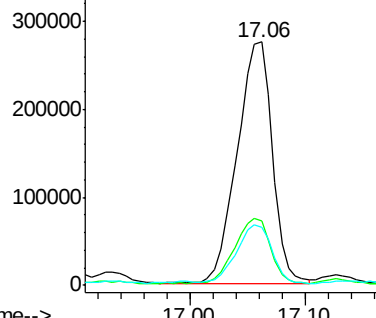
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.8	25.0	37.6
277	24.2	20.1	30.1

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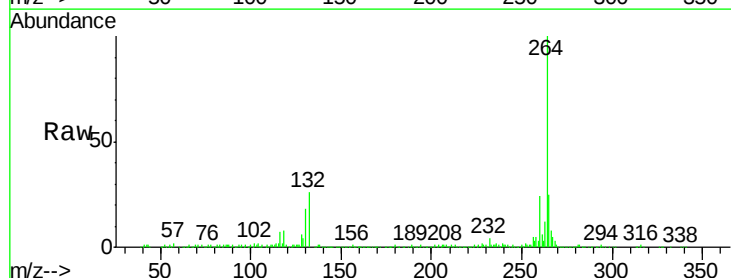


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

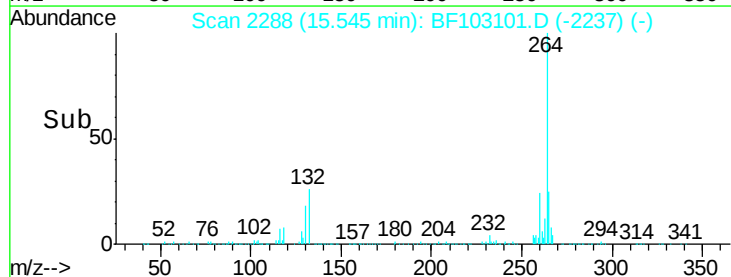
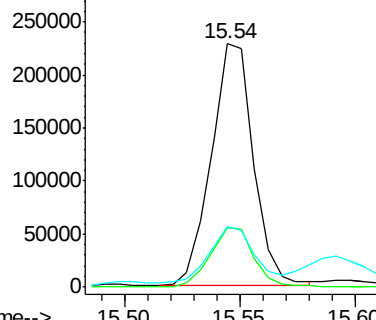


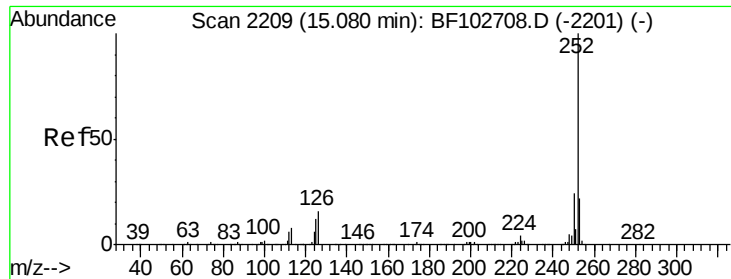
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.54 min Scan# 2288
 Delta R.T. 0.00 min
 Lab File: BF103101.D
 Acq: 20 Feb 2018 00:29

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	24.9	17.5	26.3



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





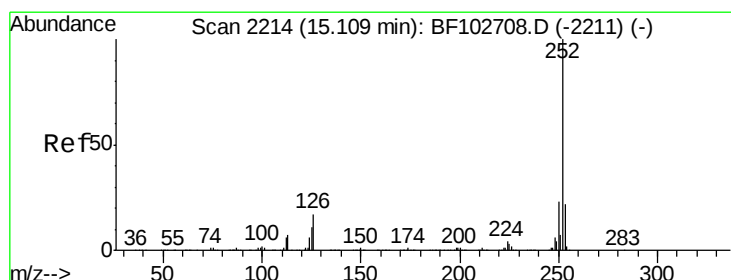
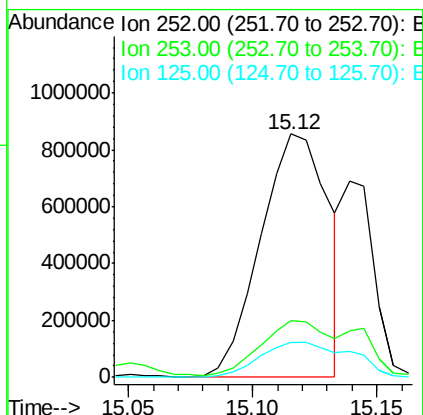
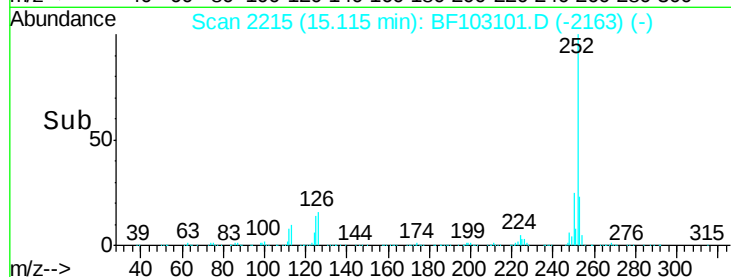
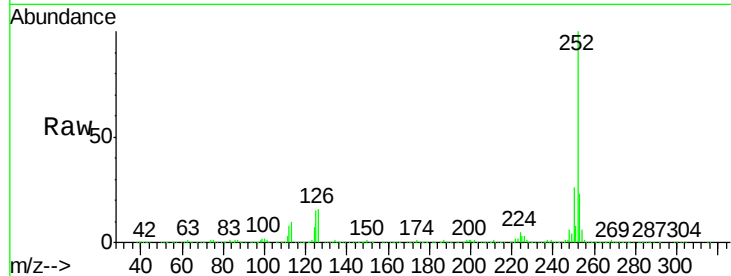
#87
Benzo(b)fluoranthene
Concen: 85.983 ng m
RT: 15.12 min Scan# 2215
Delta R.T. 0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5

Tgt Ion:252 Resp: 1626886
Ion Ratio Lower Upper
252 100
253 23.3 17.0 25.6
125 14.5 9.0 13.6#

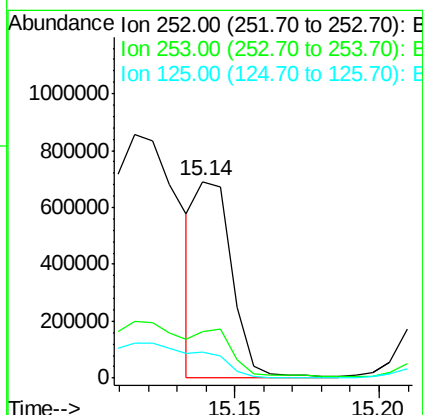
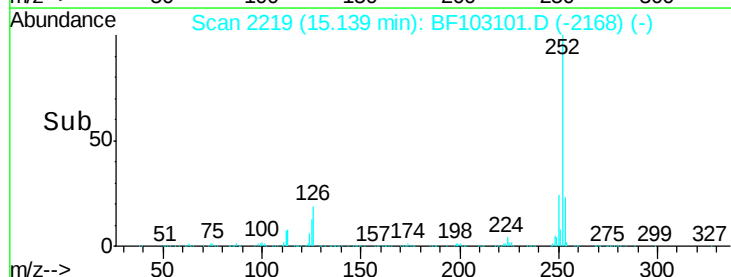
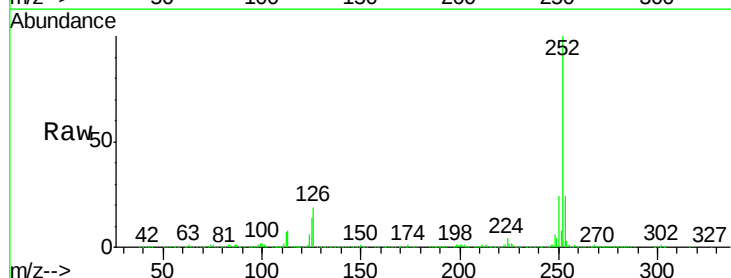
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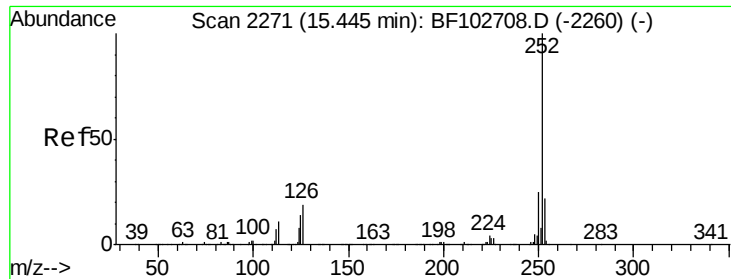
Sohil
2/20/2018 10:21:01 AM



#88
Benzo(k)fluoranthene
Concen: 32.746 ng m
RT: 15.14 min Scan# 2219
Delta R.T. 0.00 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Tgt Ion:252 Resp: 592009
Ion Ratio Lower Upper
252 100
253 23.7 17.9 26.9
125 13.5 10.2 15.2





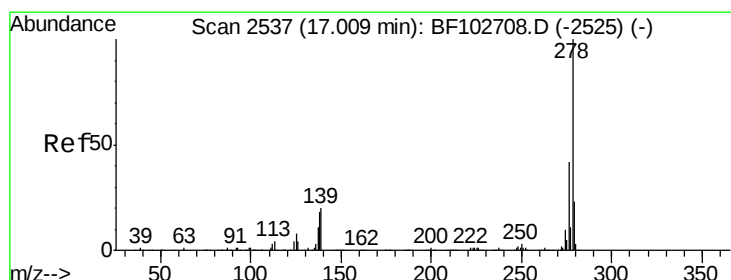
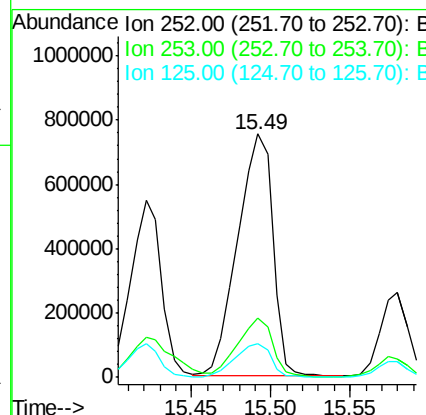
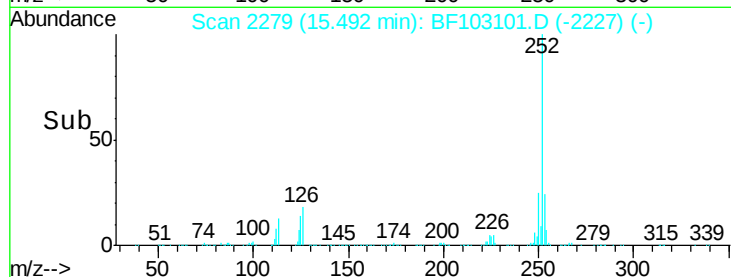
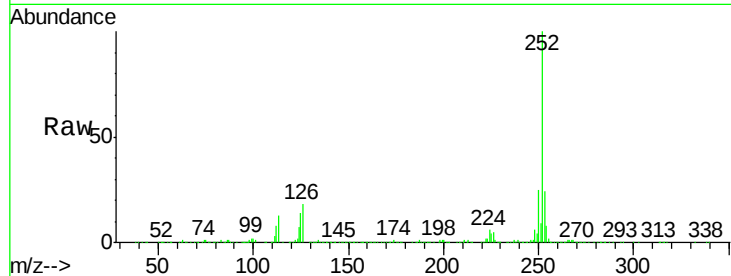
#89
Benzo(a)pyrene
Concen: 68.454 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Instrument :
BNA_F
ClientSampleId :
A2 SB69 BOT-N 10.5

Tgt Ion:252 Resp: 1165849
Ion Ratio Lower Upper
252 100
253 24.1 17.1 25.7
125 14.0 9.8 14.6

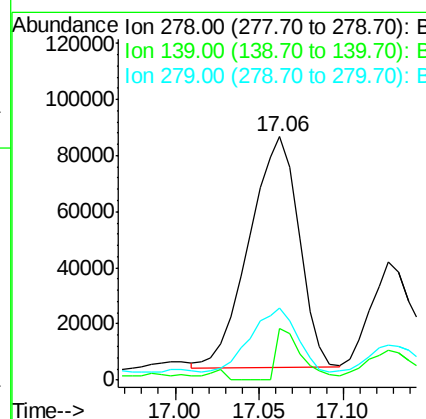
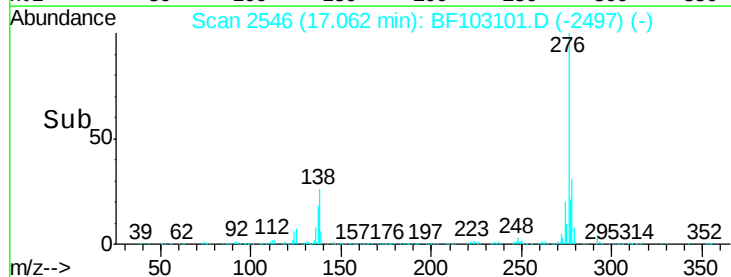
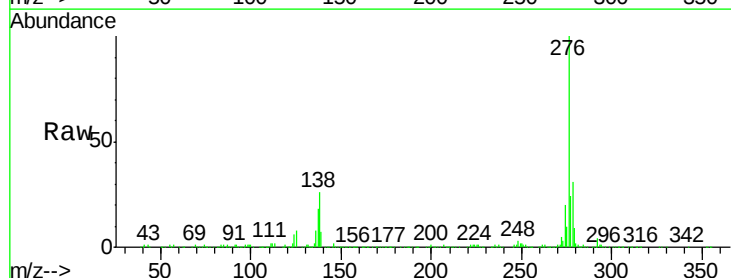
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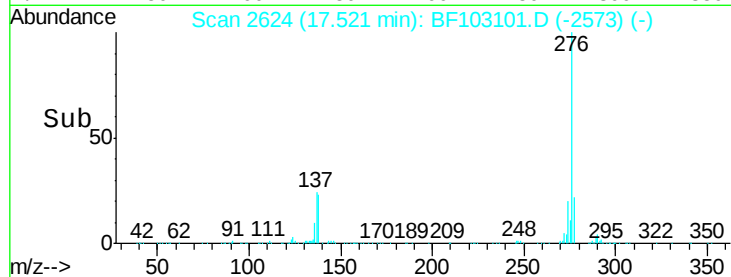
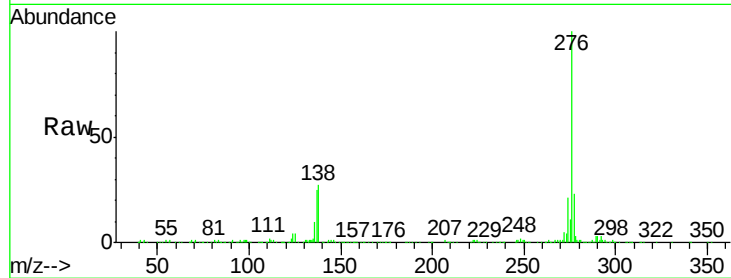
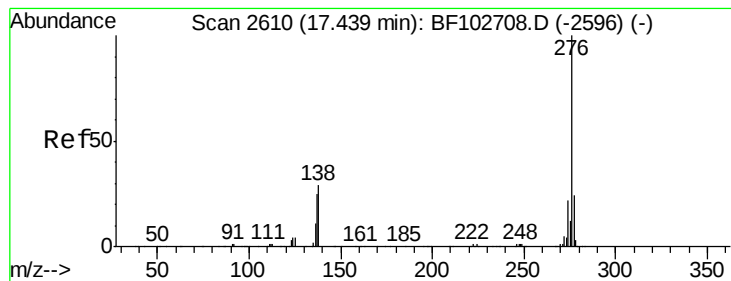
Sohil
2/20/2018 10:21:01 AM



#90
Dibenzo(a,h)anthracene
Concen: 12.266 ng m
RT: 17.06 min Scan# 2546
Delta R.T. -0.01 min
Lab File: BF103101.D
Acq: 20 Feb 2018 00:29

Tgt Ion:278 Resp: 169555
Ion Ratio Lower Upper
278 100
139 21.3 15.9 23.9
279 29.4 19.0 28.4#





#91

Benzo(g,h,i)perylene

Concen: 34.426 ng

RT: 17.52 min Scan# 2624

Delta R.T. 0.00 min

Lab File: BF103101.D

Acq: 20 Feb 2018 00:29

Instrument :

BNA_F

ClientSampleId :

A2 SB69 BOT-N 10.5

Tgt Ion:	276	Resp:	465805
Ion Ratio		Lower	Upper
276	100		
277	23.5	17.9	26.9
138	27.0	21.8	32.8

Manual Integrations
APPROVED

Sohil
2/20/2018 10:21:01 AM

