

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030918\
 Data File : BF103565.D
 Acq On : 9 Mar 2018 18:54
 Operator : SJ/JU
 Sample : J1829-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-05-6.5-10.5

Manual Integrations
 APPROVED

Sohil
 3/12/2018 3:50:27 PM

Quant Time: Mar 09 23:12:29 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 09 11:47:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	149098	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	616581	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	231616	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	317401	20.00	ng	0.00
75) Chrysene-d12	14.06	240	221951	20.00	ng	0.00
86) Perylene-d12	15.57	264	190391	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	782784	79.40	ng	0.00
7) Phenol-d6	6.50	99	995486	82.52	ng	0.00
23) Nitrobenzene-d5	7.43	82	682632	63.23	ng	0.00
41) 2,4,6-Tribromophenol	10.70	330	103477	52.78	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	796893	54.18	ng	0.00
78) Terphenyl-d14	12.99	244	492535	53.34	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.17	128	112003	3.710	ng	100
37) 2-Methylnaphthalene	8.87	142	44077	2.259	ng	97
51) Acenaphthene	9.94	154	118986	8.637	ng	99
54) Dibenzofuran	10.12	168	94802	5.013	ng	97
57) Fluorene	10.46	166	120447	7.477	ng	97
70) Phenanthrene	11.43	178	873314	49.996	ng	99
71) Anthracene	11.48	178	321845	17.968	ng	98
72) Carbazole	11.65	167	79548	4.460	ng	98
73) Di-n-butylphthalate	11.95	149	582547	26.100	ng	99
74) Fluoranthene	12.63	202	880984	50.190	ng	99
77) Pyrene	12.86	202	831346	48.042	ng	99
80) Benzo(a)anthracene	14.05	228	396478	27.531	ng	99
82) Chrysene	14.09	228	361300	25.839	ng	96
85) Indeno(1,2,3-cd)pyrene	17.12	276	127542	11.521	ng	90
87) Benzo(b)fluoranthene	15.13	252	369548m	29.521	ng	
88) Benzo(k)fluoranthene	15.15	252	131477m	11.154	ng	
89) Benzo(a)pyrene	15.51	252	277731	24.845	ng	# 96
90) Dibenzo(a,h)anthracene	17.12	278	26515	3.070	ng	# 78
91) Benzo(a,h,i)perylene	17.59	276	120305	14.251	ng	93

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

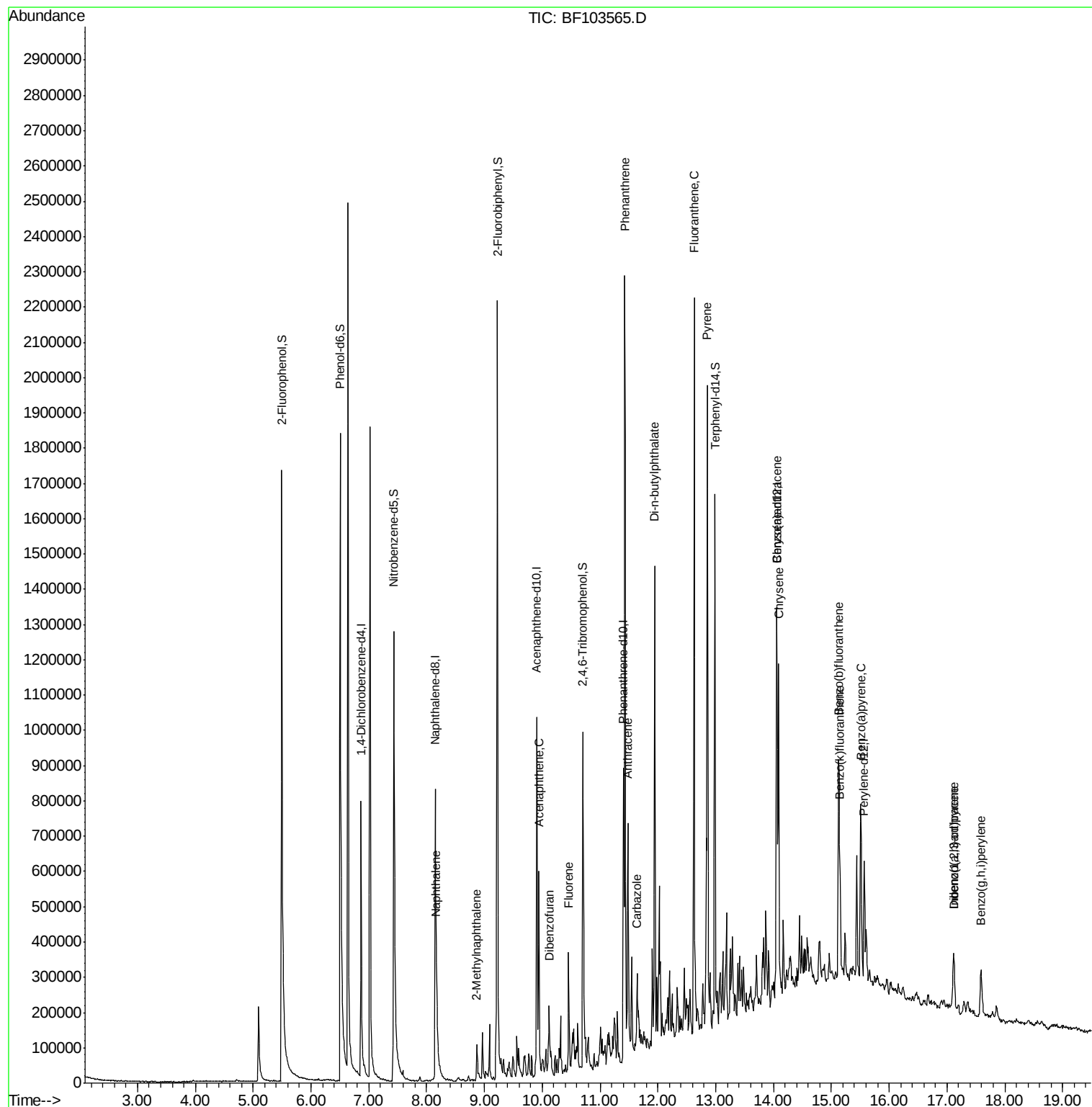
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030918\
Data File : BF103565.D
Acq On : 9 Mar 2018 18:54
Operator : SJ/JU
Sample : J1829-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

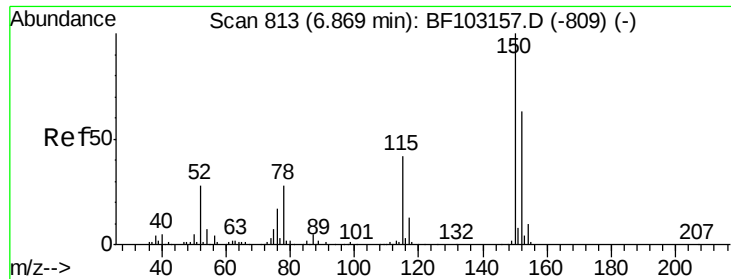
Instrument :
BNA_F
ClientSampled :
SB-05-6.5-10.5

Manual Integrations
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Quant Time: Mar 09 23:12:29 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 09 11:47:13 2018
Response via : Initial Calibration





#1

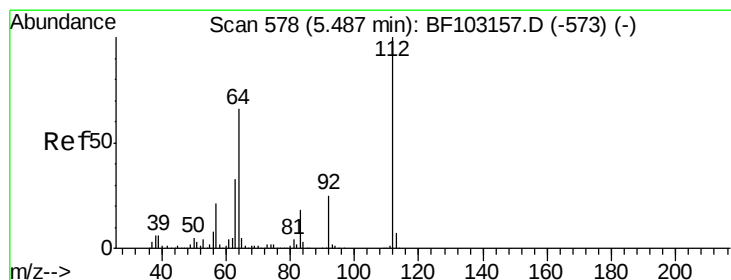
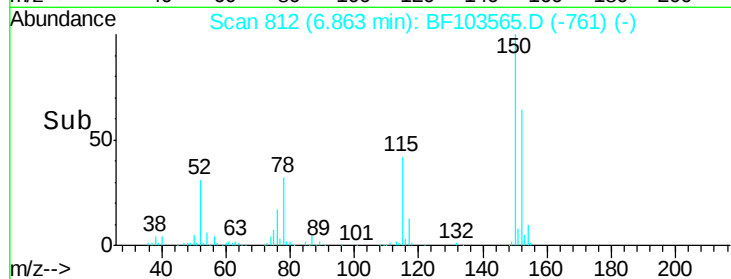
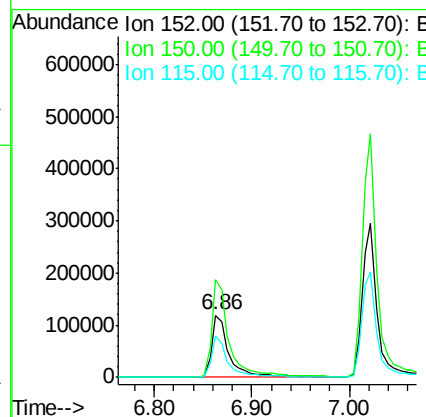
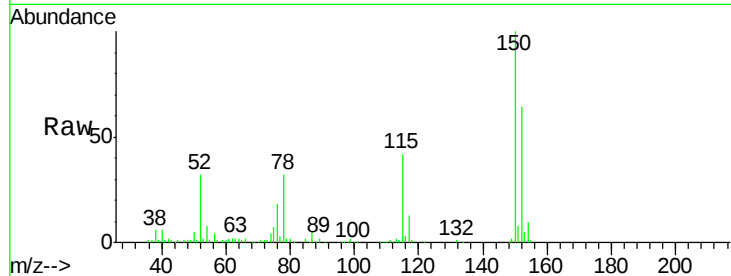
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	124.6	186.8
115	66.3	50.1	75.1

Manual Integrations
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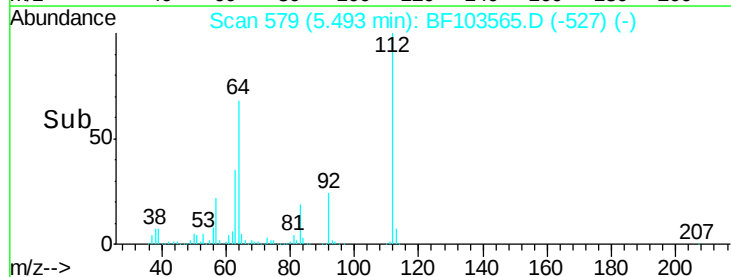
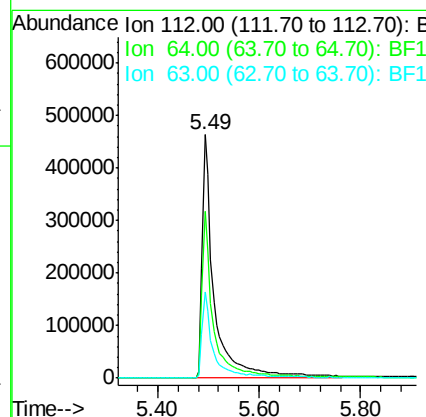
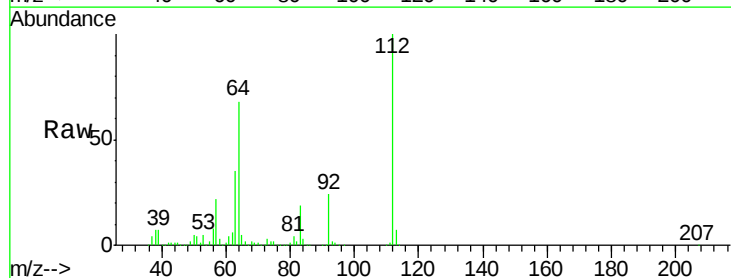
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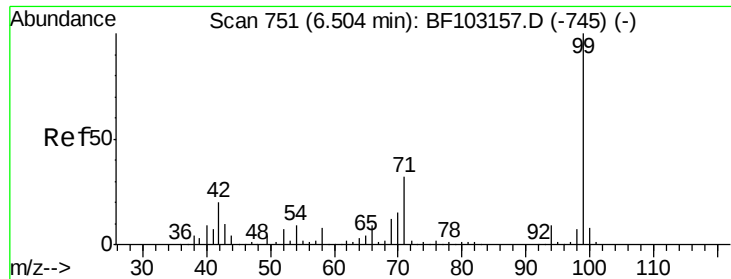


#5

2-Fluorophenol
Concen: 79.404 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.4	47.9	71.9
63	35.3	23.7	35.5





#7

Phenol-d6

Concen: 82.524 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Instrument :

BNA_F

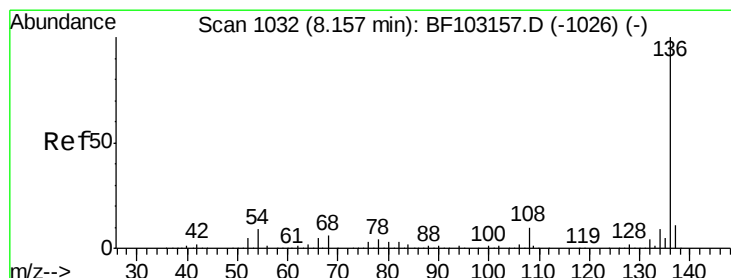
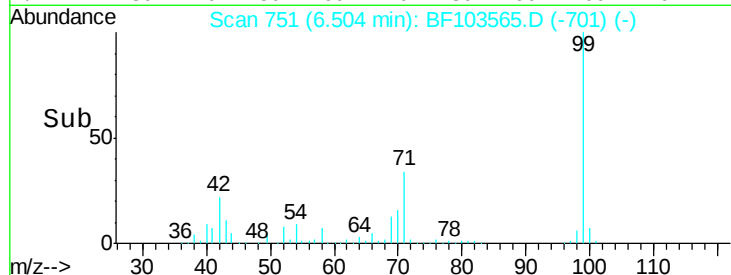
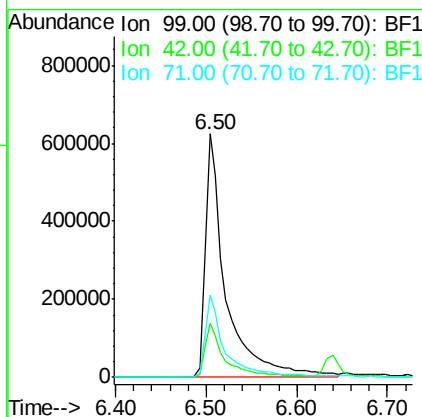
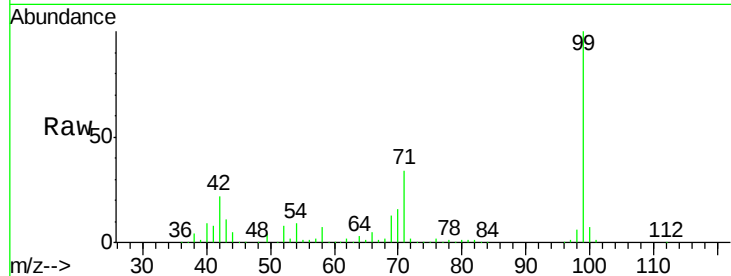
ClientSampleId :

SB-05-6.5-10.5

Tot Ion:	99	Resp:	995486
Ion Ratio	Lower	Upper	
99	100		
42	22.4	14.5	21.7#
71	33.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

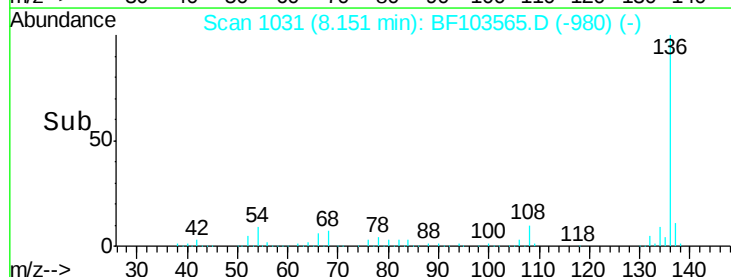
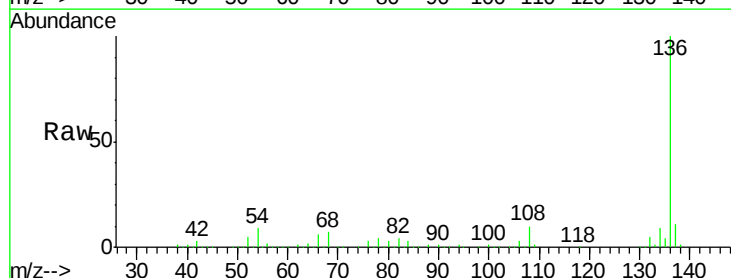
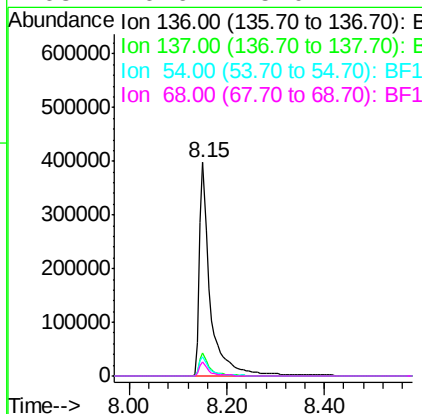
RT: 8.15 min Scan# 1031

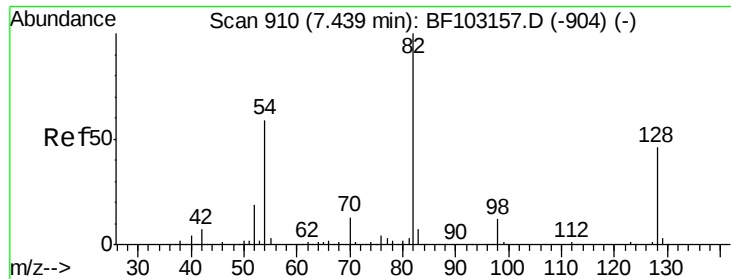
Delta R.T. 0.00 min

Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Tgt Ion:	136	Resp:	616581
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	9.3	6.6	9.8
68	6.6	5.0	7.4





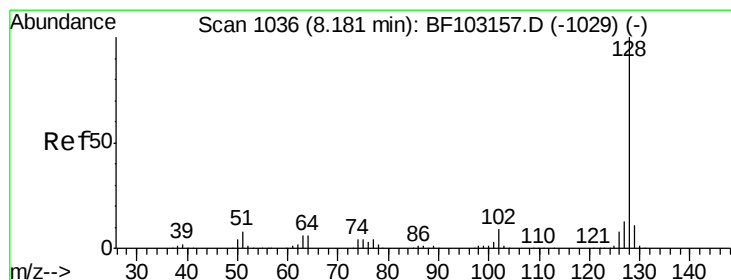
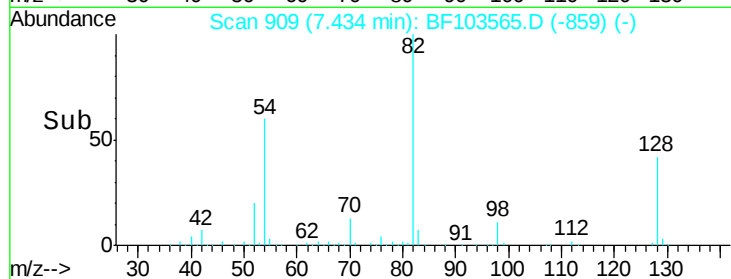
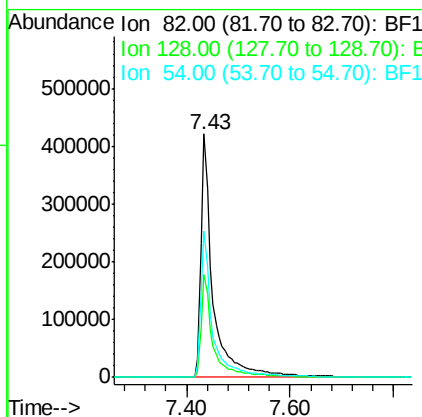
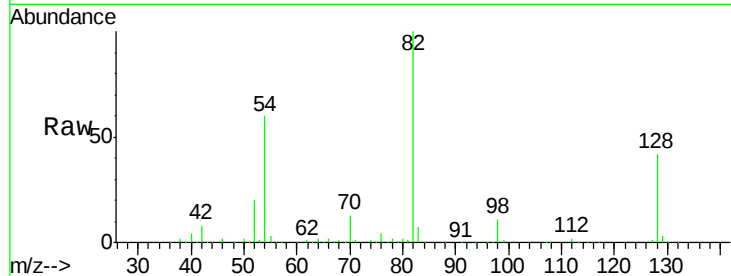
#23
Nitrobenzene-d5
Concen: 63.226 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.0	36.1	54.1
54	60.2	41.4	62.2

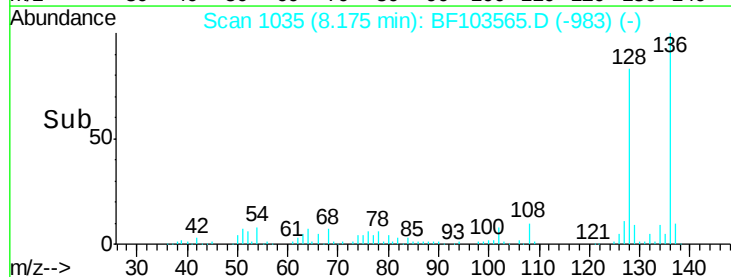
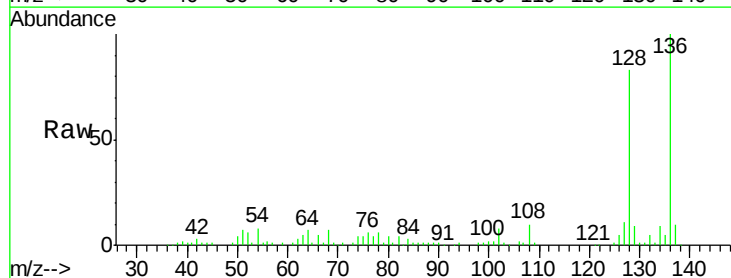
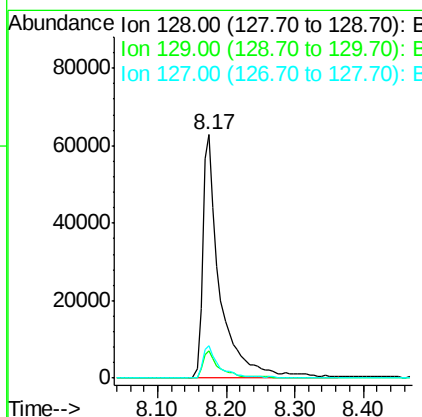
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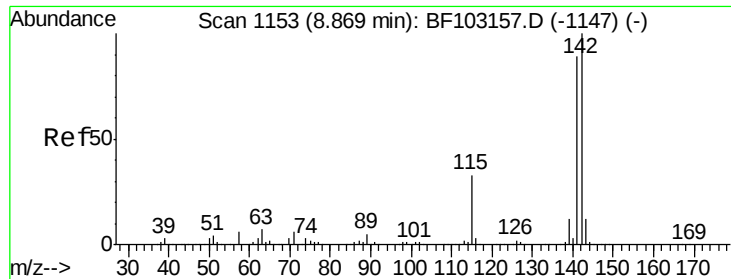
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#31
Naphthalene
Concen: 3.710 ng
RT: 8.17 min Scan# 1035
Delta R.T. 0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.5	10.9	16.3





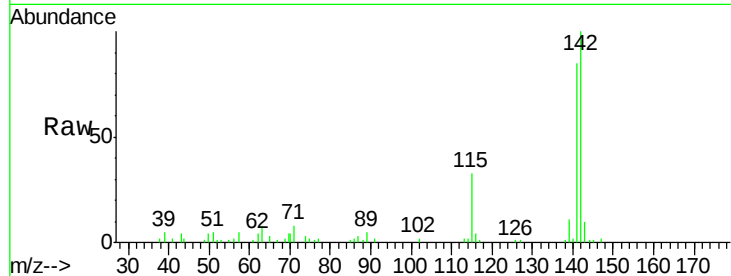
#37
2-Methylnaphthalene
Concen: 2.259 ng
RT: 8.87 min Scan# 1153
Delta R.T. 0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

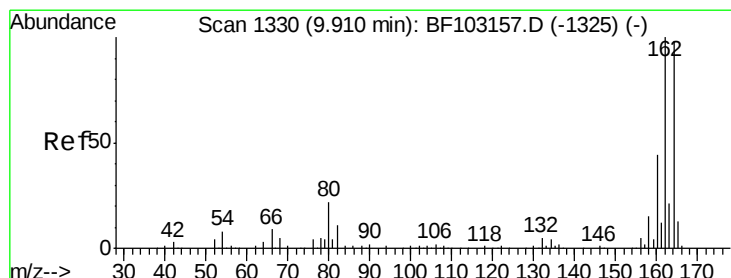
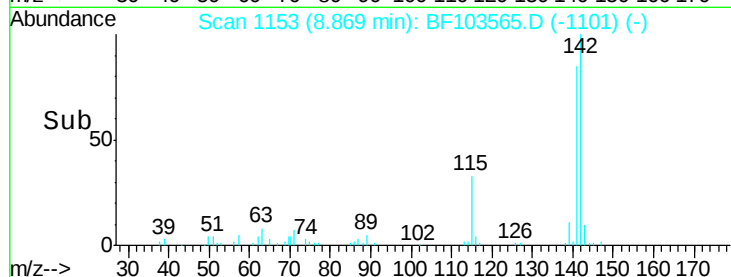
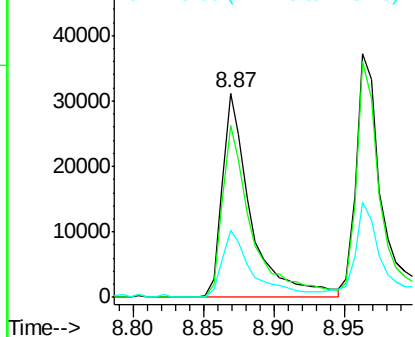
Tot Ion	Ion	Ratio	Resp	Lower	Upper
142	100		44077		
141	84.5	70.8	106.2		
115	33.0	26.1	39.1		

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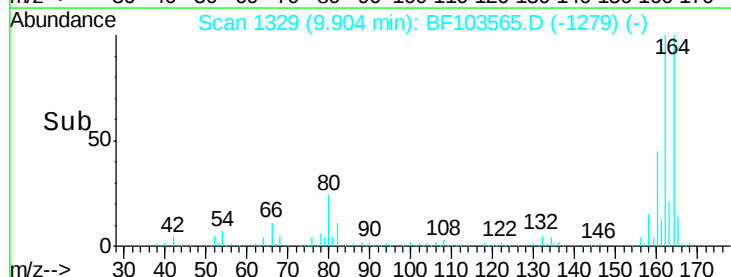
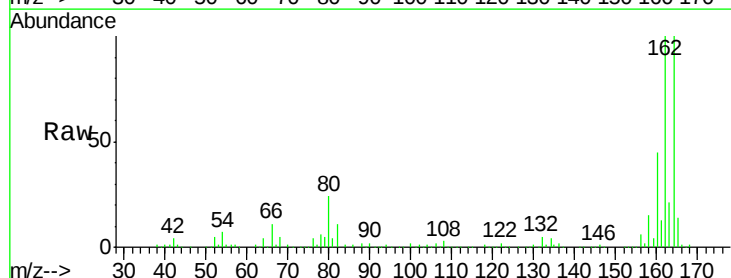
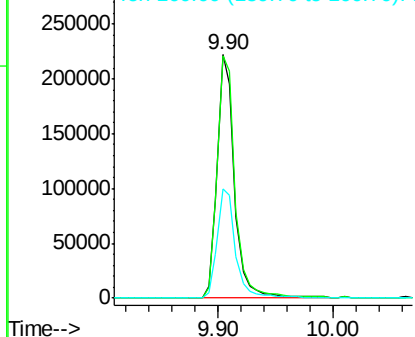
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		231616		
162	99.7	86.1	129.1		
160	44.8	38.3	57.5		

Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





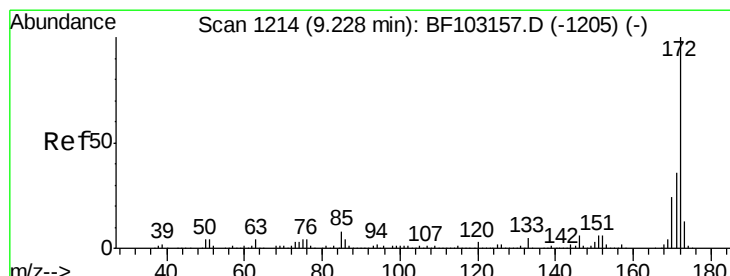
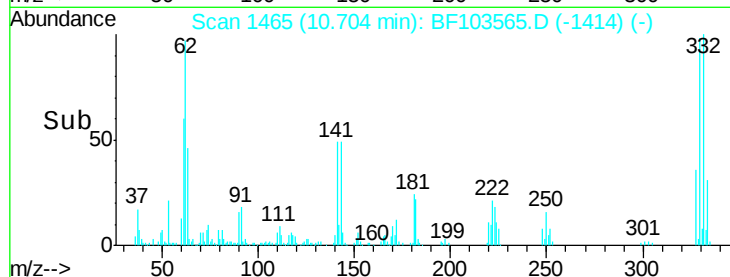
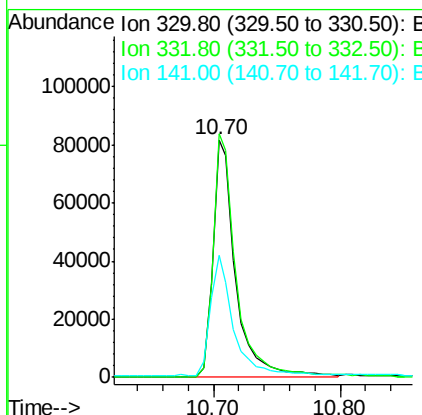
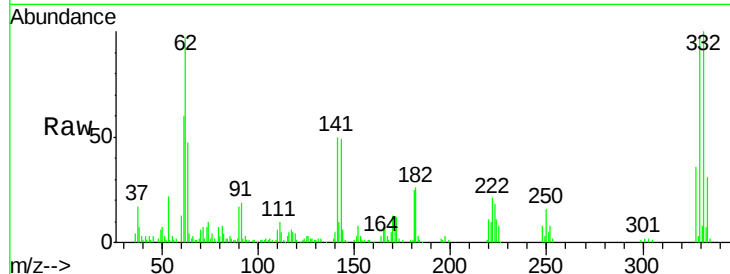
#41
 2,4,6-Tribromophenol
 Concen: 52.781 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: BF103565.D
 Acq: 9 Mar 2018 18:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
330	100		
332	105.6	77.0	115.6
141	50.6	29.9	44.9

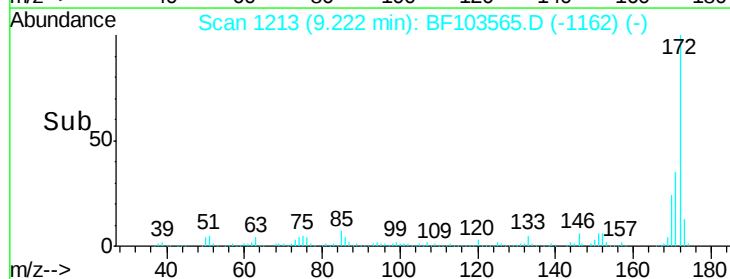
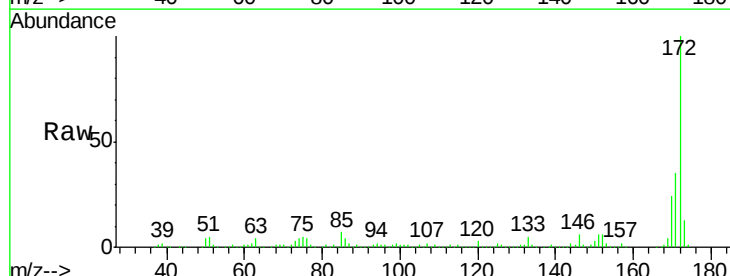
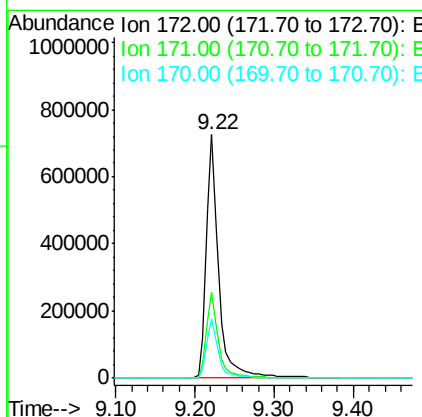
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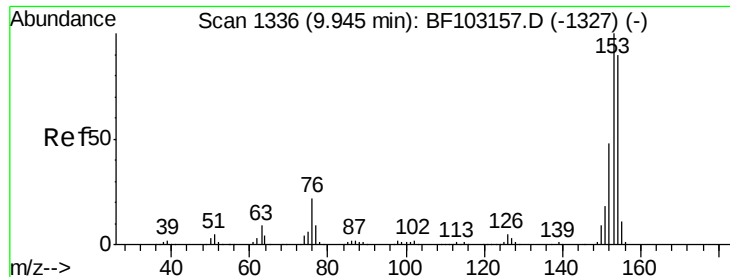
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#44
 2-Fluorobiphenyl
 Concen: 54.185 ng
 RT: 9.22 min Scan# 1213
 Delta R.T. 0.00 min
 Lab File: BF103565.D
 Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	24.1	19.6	29.4





#51

Acenaphthene

Concen: 8.637 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Instrument :

BNA_F

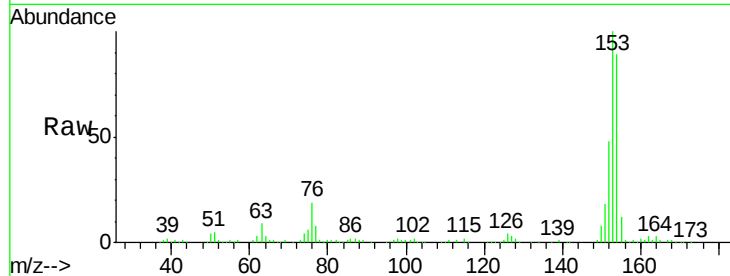
ClientSampleId :

SB-05-6.5-10.5

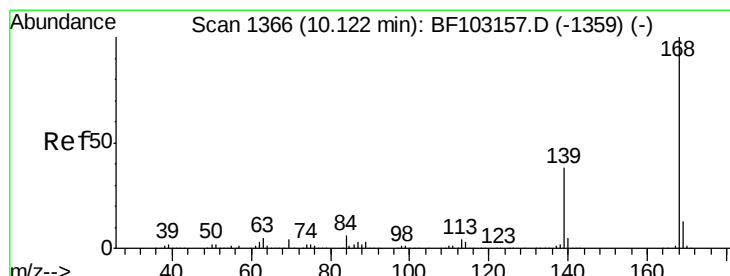
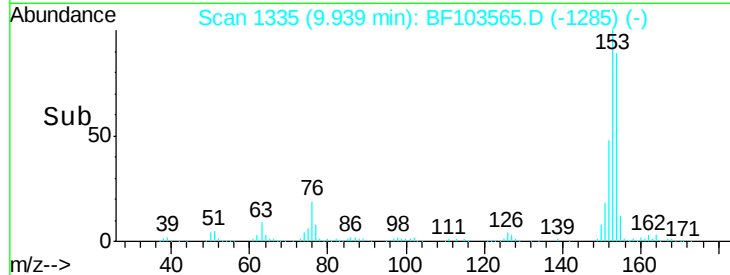
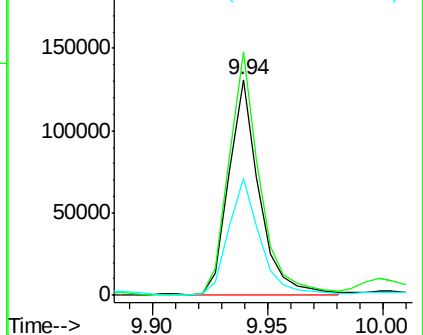
Tot Ion:	154	Resp:	118986
Ion Ratio	Lower	Upper	
154	100		
153	112.7	91.2	136.8
152	54.3	43.8	65.8

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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: 5.013 ng

RT: 10.12 min Scan# 1365

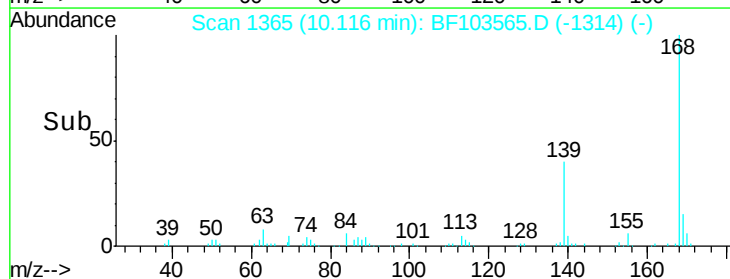
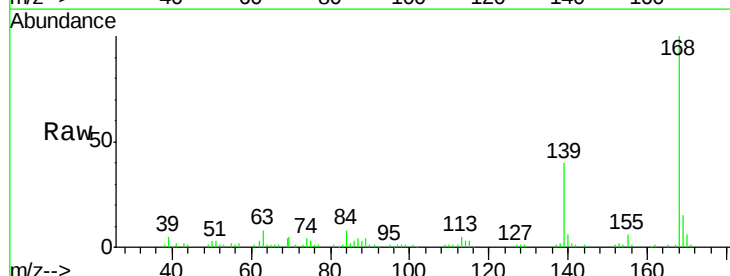
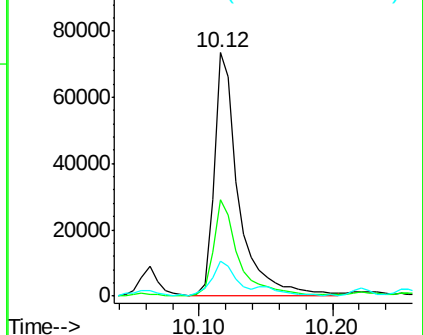
Delta R.T. 0.00 min

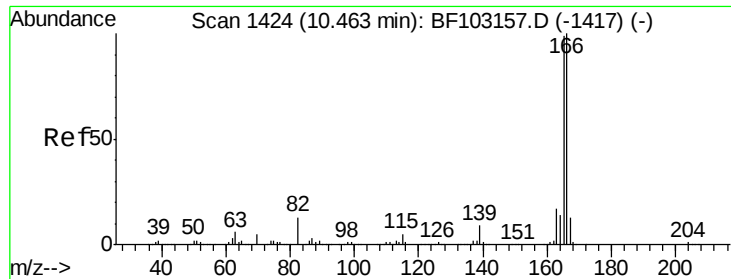
Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Tgt Ion:	168	Resp:	94802
Ion Ratio	Lower	Upper	
168	100		
139	39.7	30.1	45.1
169	14.6	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





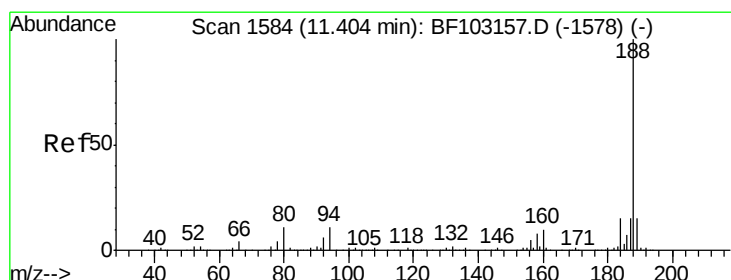
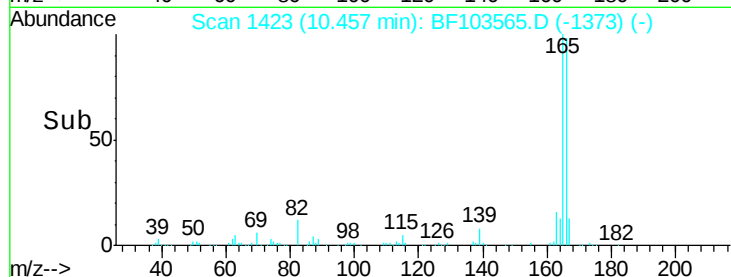
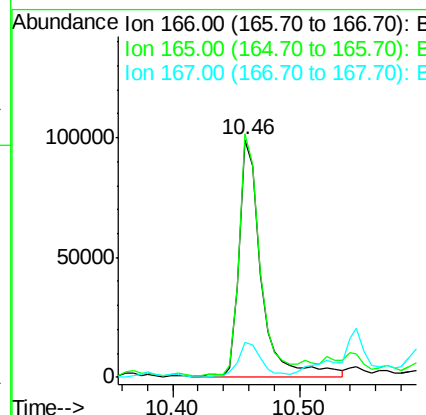
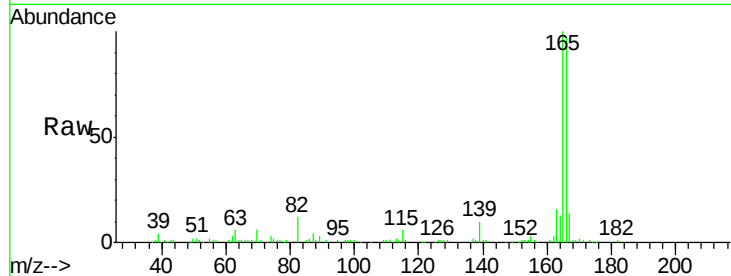
#57
Fluorene
 Concen: 7.477 ng
 RT: 10.46 min Scan# 1423
 Delta R.T. -0.01 min
 Lab File: BF103565.D
 Acq: 9 Mar 2018 18:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.6	79.8	119.8
167	14.8	10.6	16.0

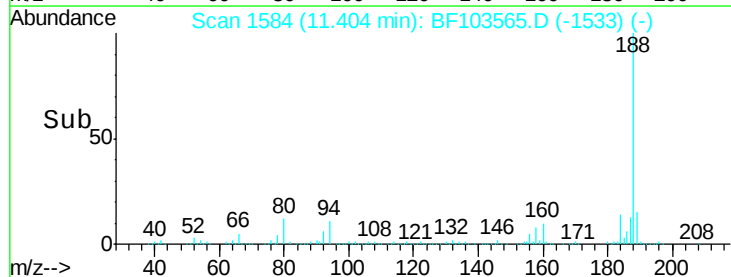
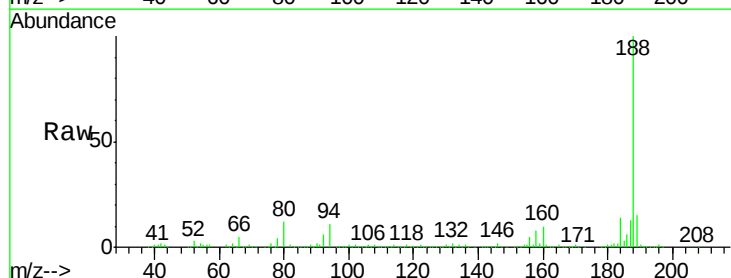
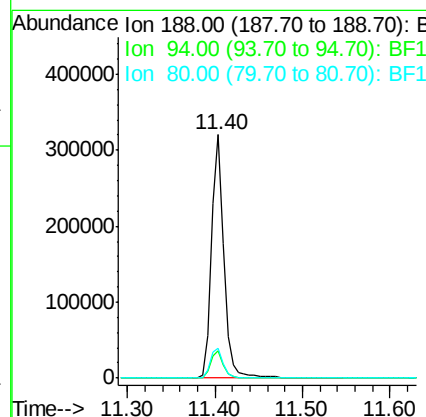
Manual Integrations
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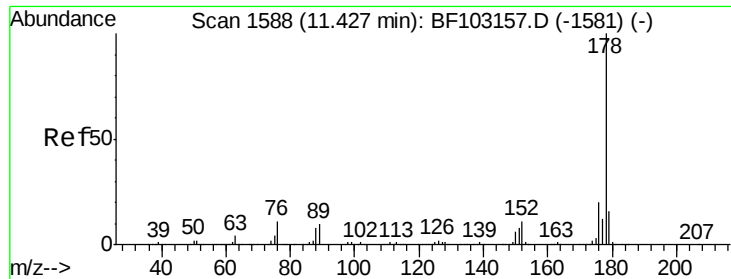
Sohil
 3/12/2018 3:50:27 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BF103565.D
 Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.5	12.7
80	12.0	9.2	13.8





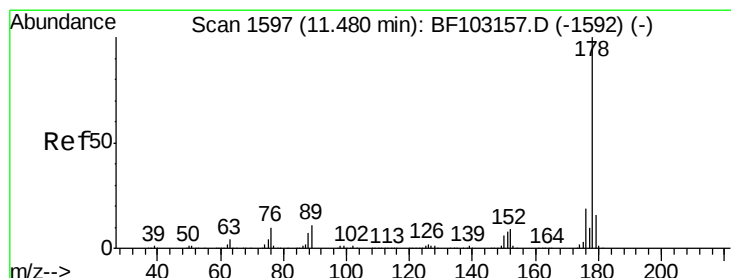
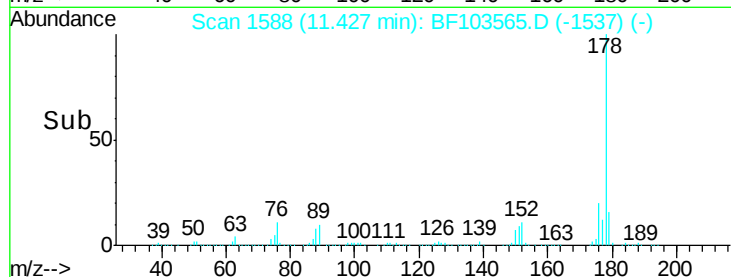
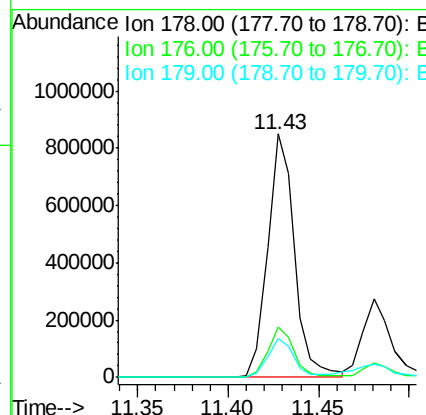
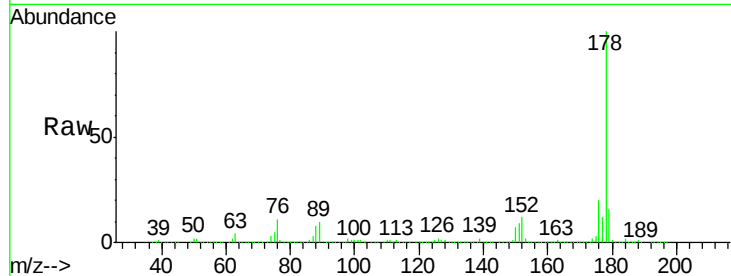
#70
Phenanthrene
Concen: 49.996 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.8	23.8
179	15.9	13.0	19.6

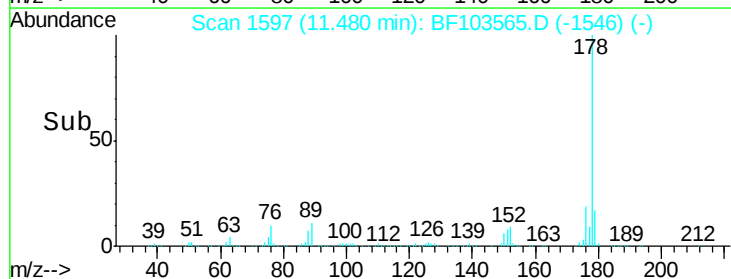
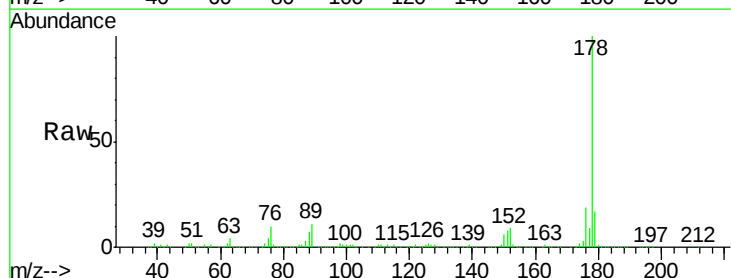
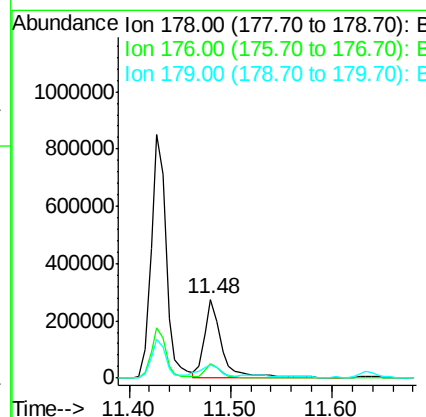
Manual Integrations
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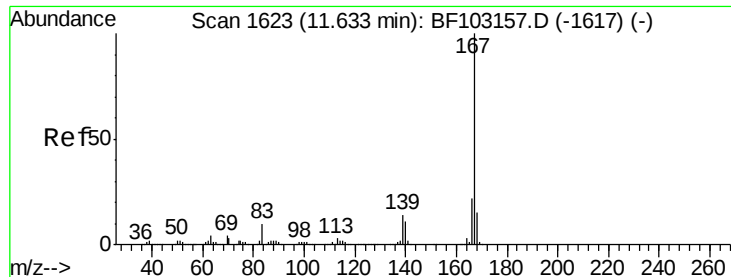
Sohil
3/12/2018 3:50:27 PM



#71
Anthracene
Concen: 17.968 ng
RT: 11.48 min Scan# 1597
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	17.3	12.6	19.0





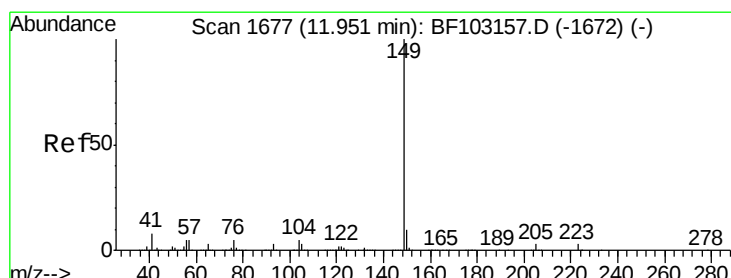
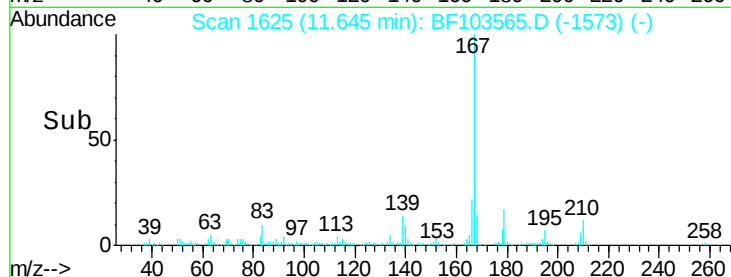
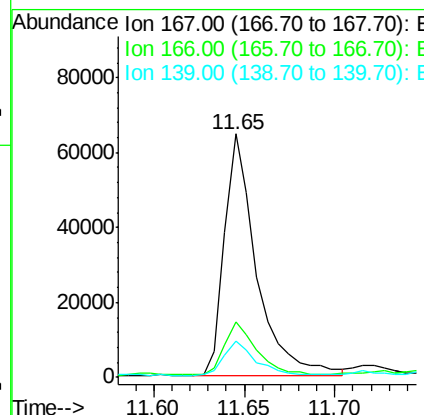
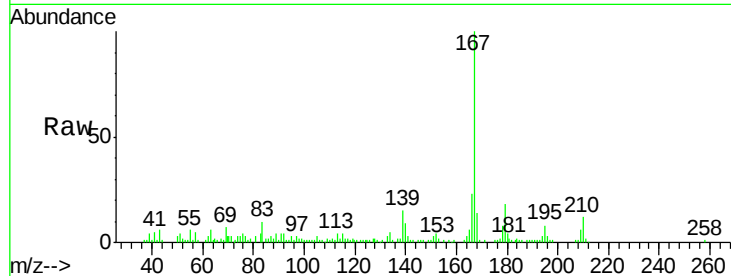
#72
 Carbazole
 Concen: 4.460 ng
 RT: 11.65 min Scan# 1625
 Delta R.T. 0.01 min
 Lab File: BF103565.D
 Acq: 9 Mar 2018 18:54

Instrument :
 BNA_F
 ClientSampleId :
 SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.9	17.6	26.4
139	14.8	10.9	16.3

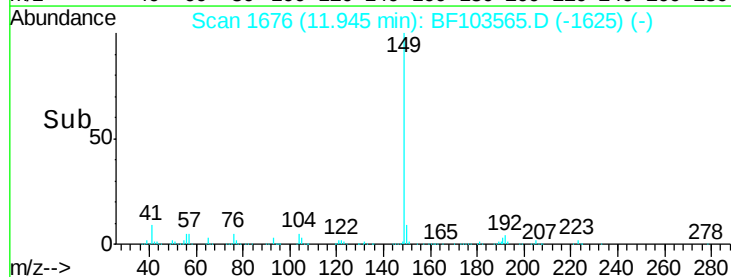
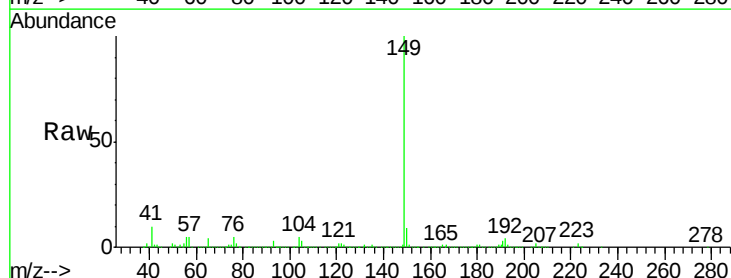
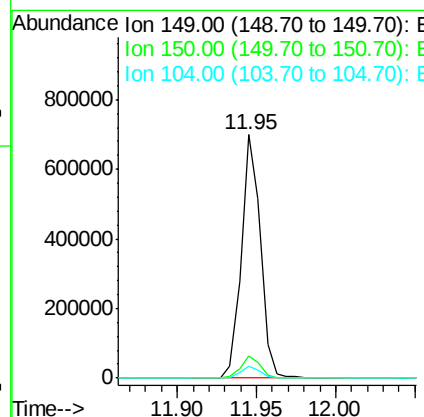
Manual Integrations
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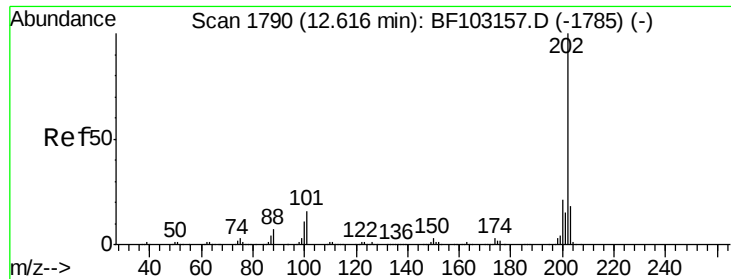
Sohil
 3/12/2018 3:50:27 PM



#73
 Di-n-butylphthalate
 Concen: 26.100 ng
 RT: 11.95 min Scan# 1676
 Delta R.T. 0.00 min
 Lab File: BF103565.D
 Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.8	11.6
104	5.0	3.8	5.8





#74

Fluoranthene

Concen: 50.190 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.01 min

Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Instrument :

BNA_F

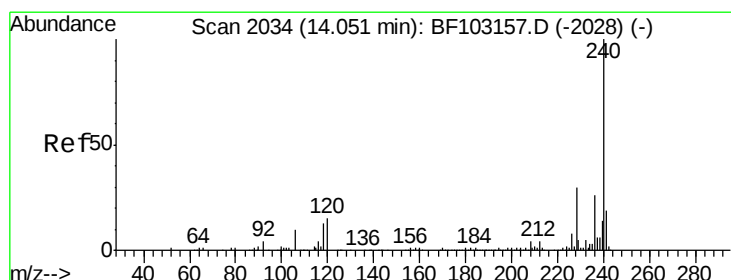
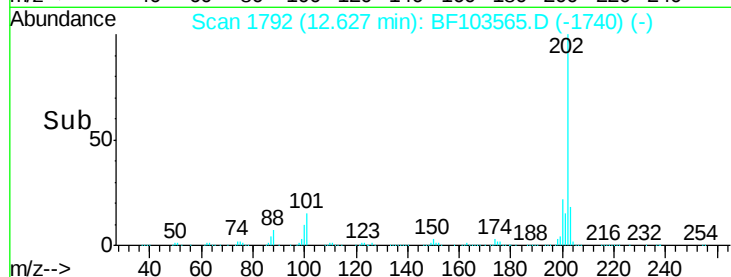
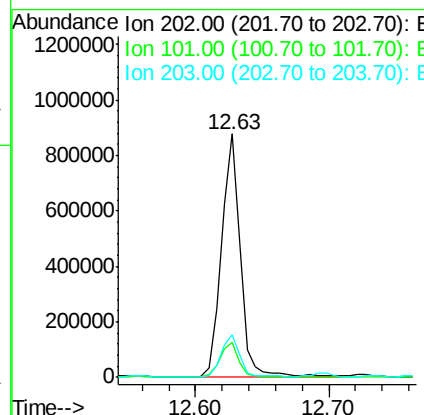
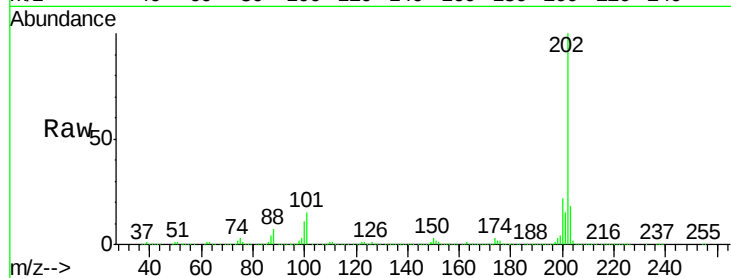
ClientSampleId :

SB-05-6.5-10.5

Tot Ion:	202	Resp:	880984
Ion Ratio	Lower	Upper	
202	100		
101	14.6	0.0	34.1
203	17.7	0.0	38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

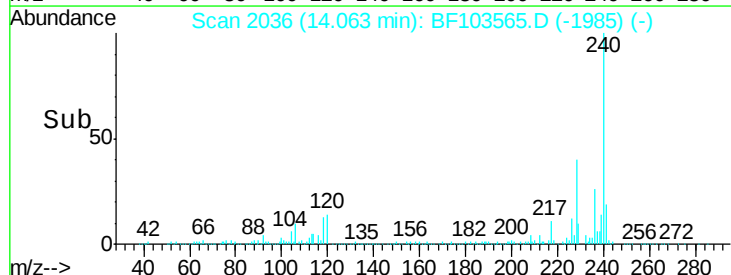
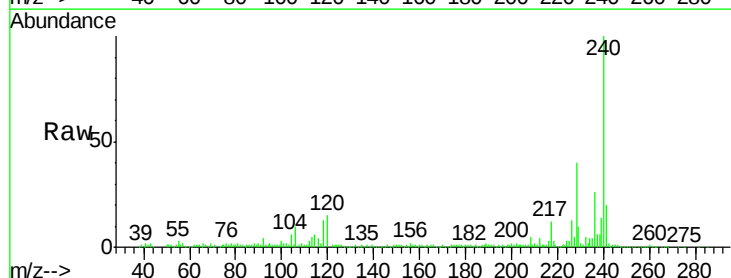
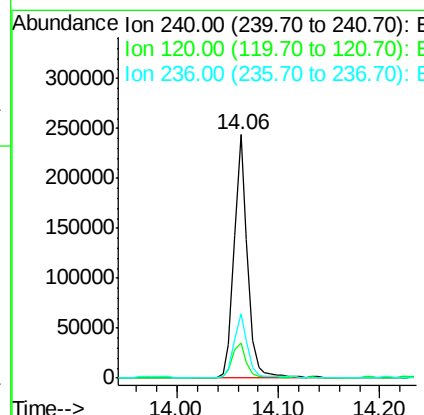
RT: 14.06 min Scan# 2036

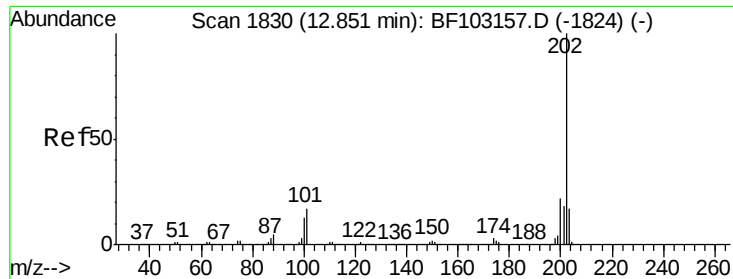
Delta R.T. 0.00 min

Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Tgt Ion:	240	Resp:	221951
Ion Ratio	Lower	Upper	
240	100		
120	14.6	9.5	14.3#
236	26.5	20.7	31.1





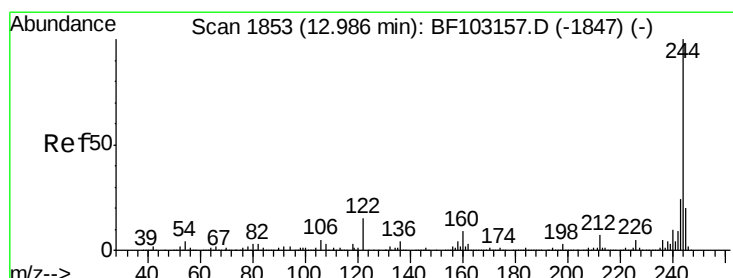
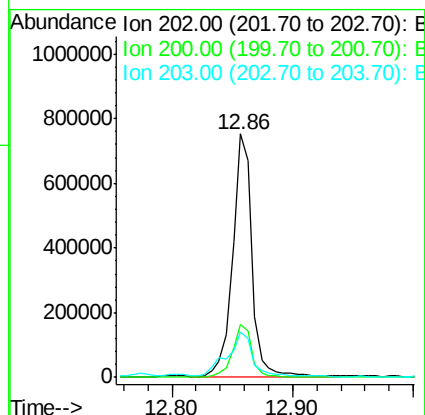
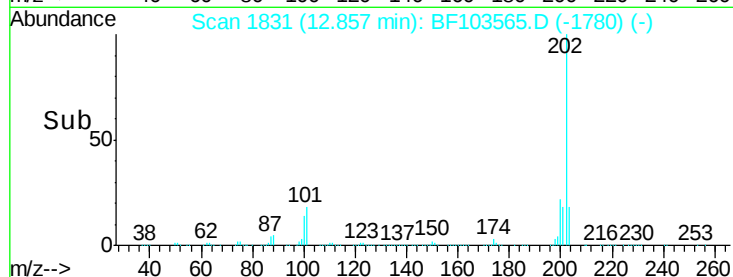
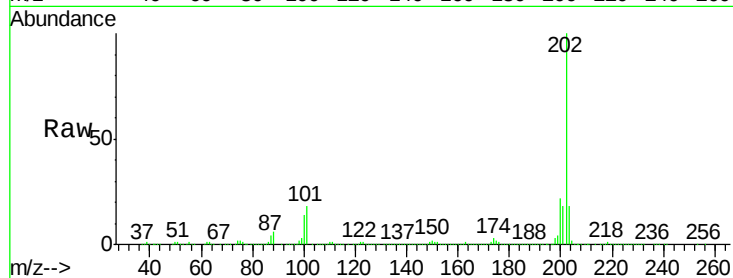
#77
Pvrene
Concen: 48.042 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.4	14.3	21.5

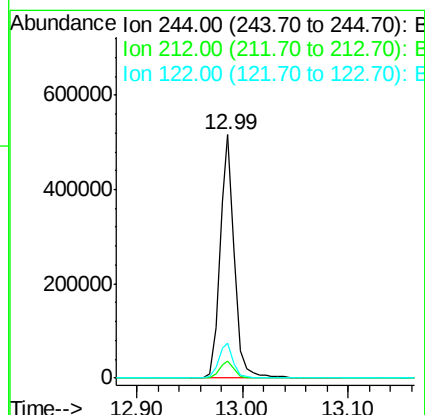
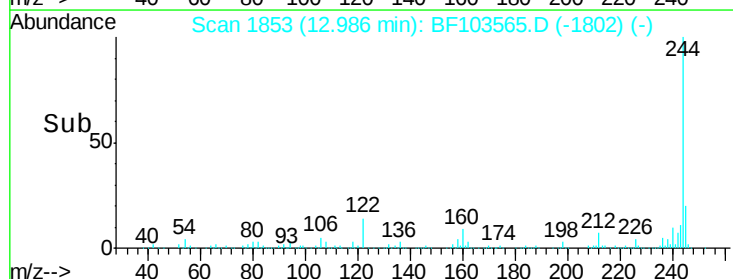
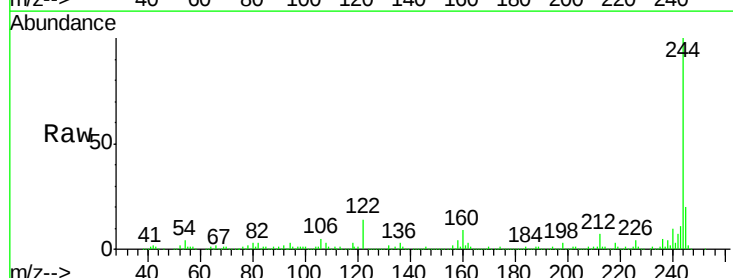
Manual Integrations
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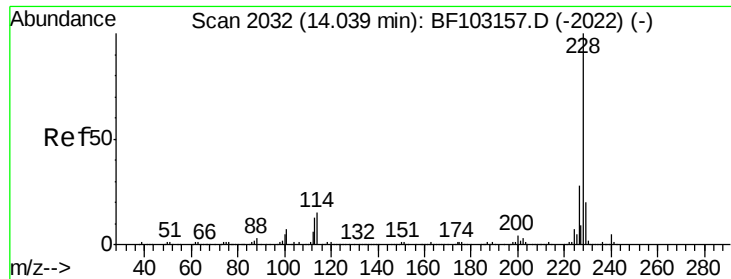
Sohil
3/12/2018 3:50:27 PM



#78
Terphenyl-d14
Concen: 53.345 ng
RT: 12.99 min Scan# 1853
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	14.3	11.0	16.4





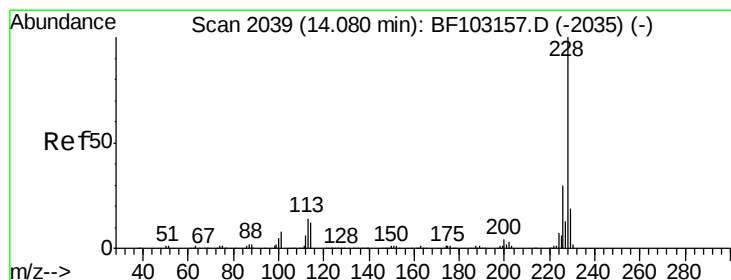
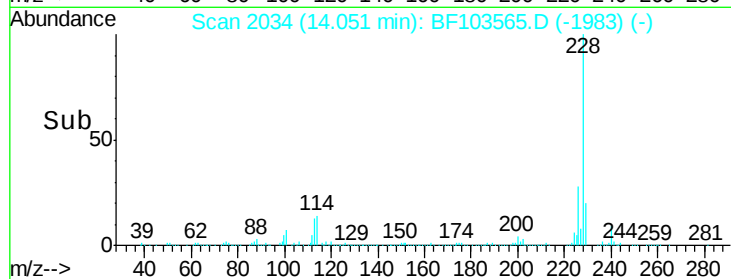
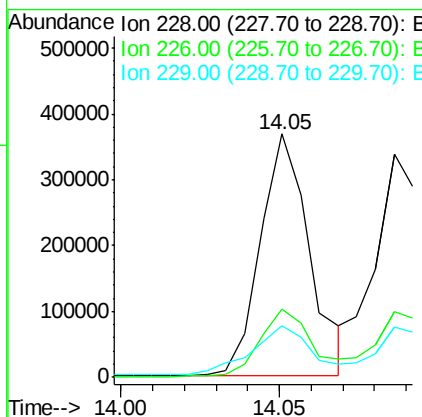
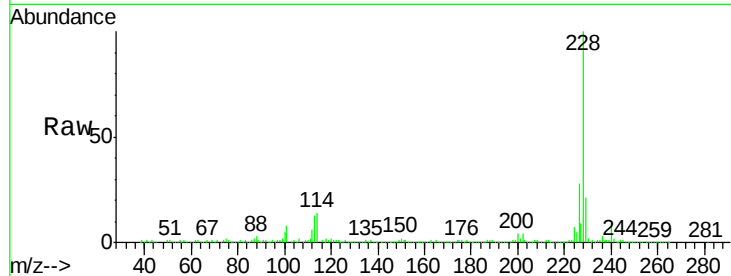
#80
Benzo(a)anthracene
Concen: 27.531 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	21.0	15.8	23.6

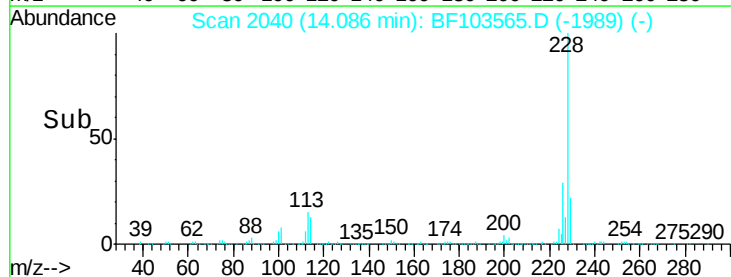
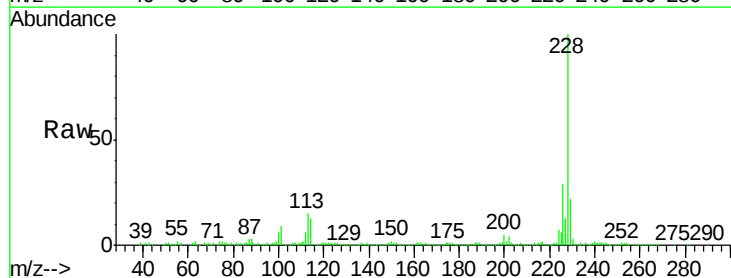
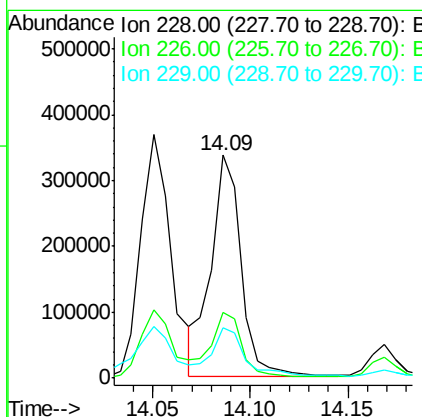
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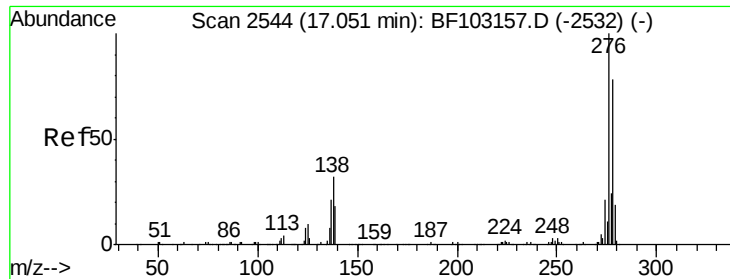
Sohil
3/12/2018 3:50:27 PM



#82
Chrysene
Concen: 25.839 ng
RT: 14.09 min Scan# 2040
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	25.0	37.6
229	22.3	16.2	24.4





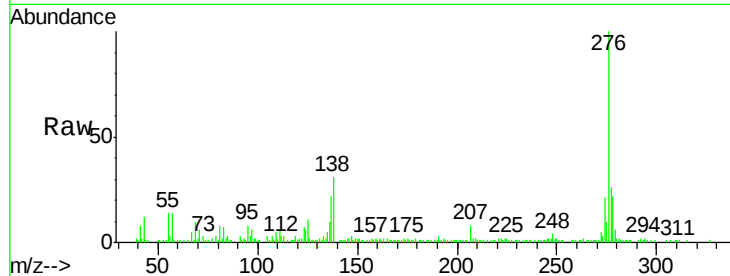
#85
Indeno(1,2,3-cd)pyrene
Concen: 11.521 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

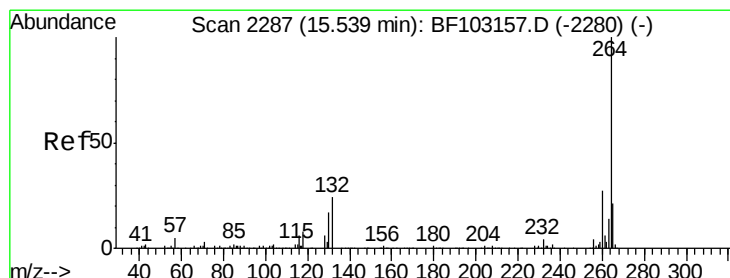
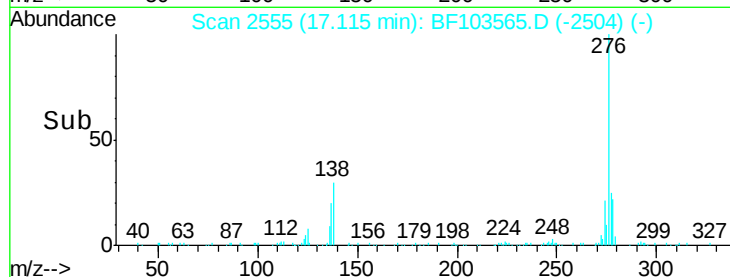
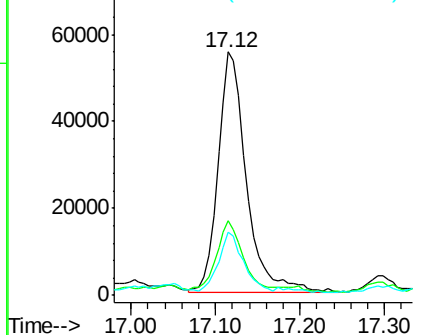
Tot Ion	Ratio	Lower	Upper
276	100		
138	25.4	25.0	37.6
277	20.9	20.1	30.1

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3/12/2018 3:50:27 PM



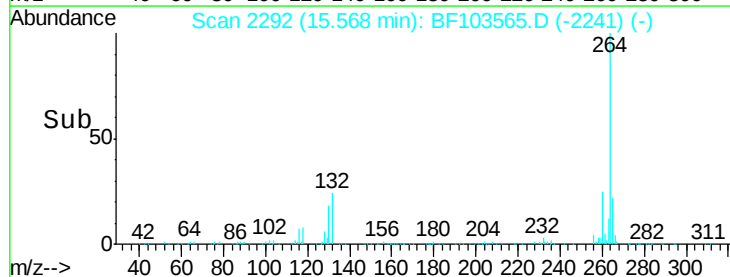
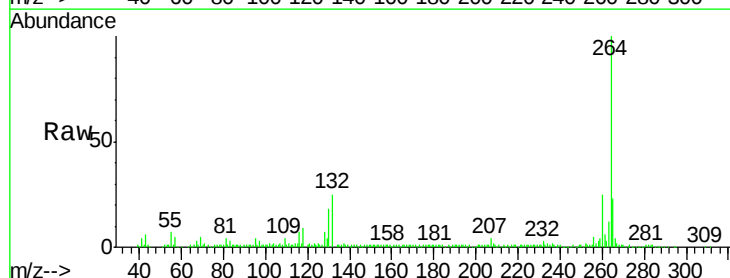
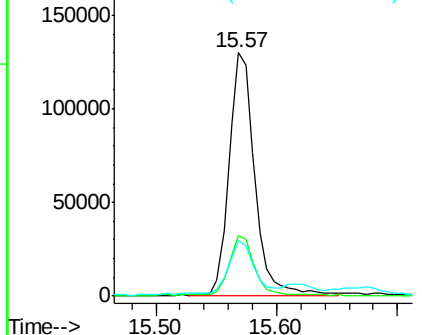
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

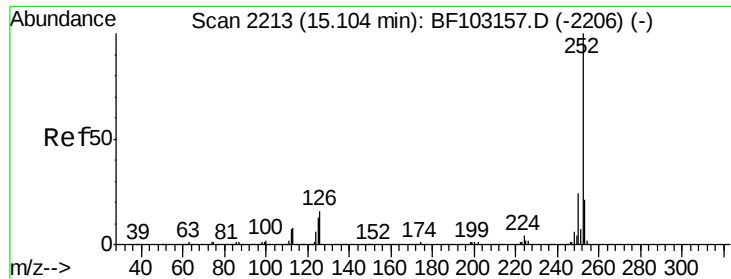


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.57 min Scan# 2292
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	22.5	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





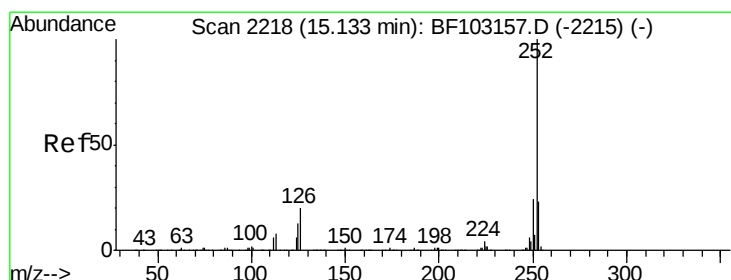
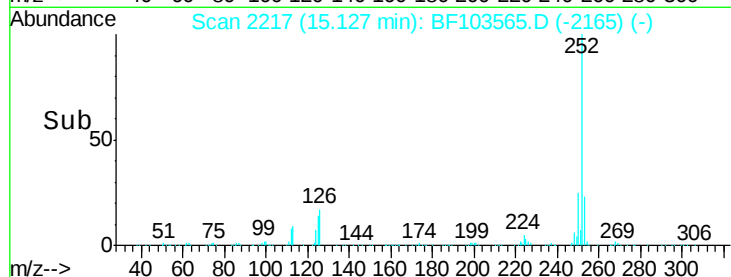
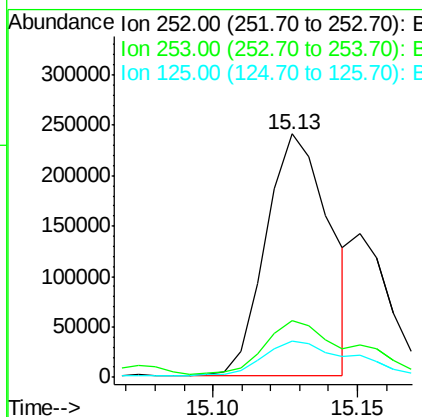
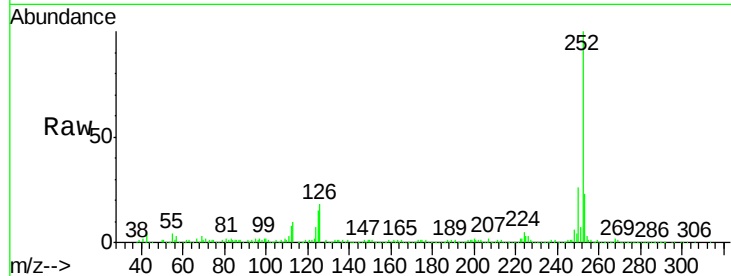
#87
Benzo(b)fluoranthene
Concen: 29.521 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	14.9	9.0	13.6

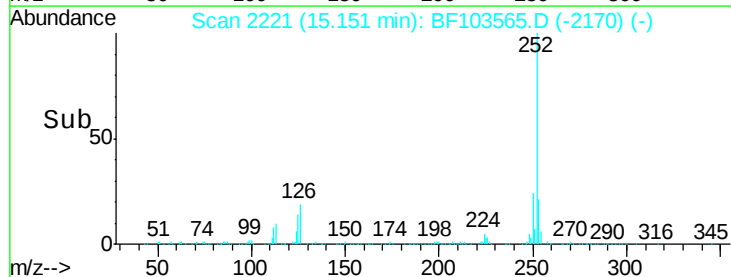
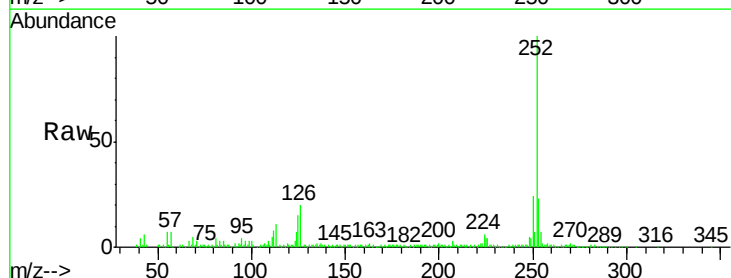
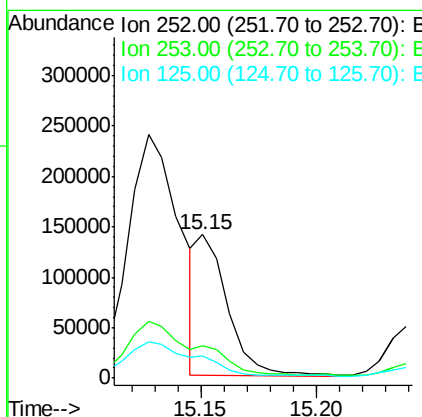
Manual Integrations
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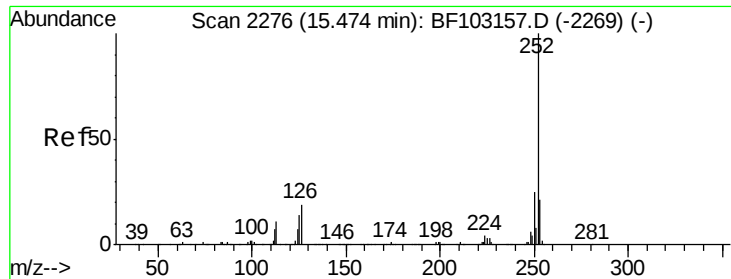
Sohil
3/12/2018 3:50:27 PM



#88
Benzo(k)fluoranthene
Concen: 11.154 ng m
RT: 15.15 min Scan# 2221
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	15.3	10.2	15.2





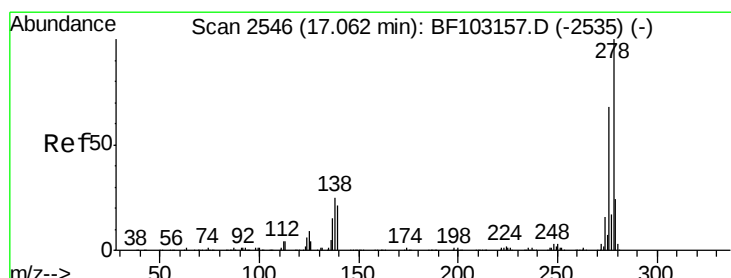
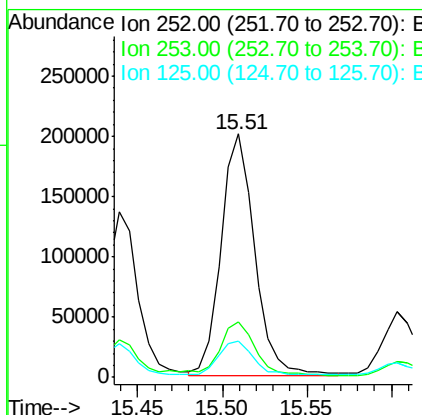
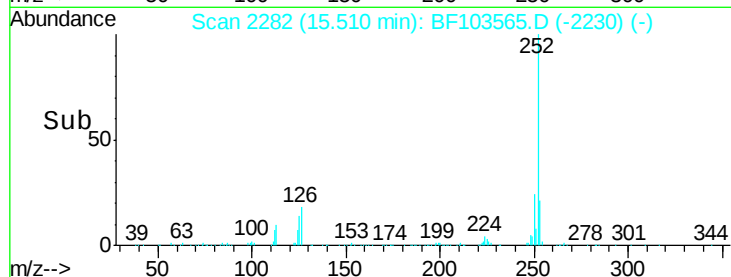
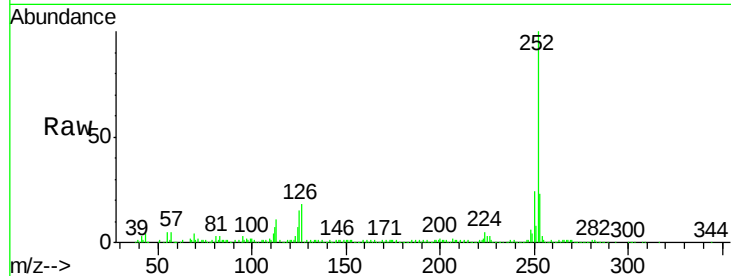
#89
Benzo(a)pyrene
Concen: 24.845 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.01 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Instrument :
BNA_F
ClientSampleId :
SB-05-6.5-10.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.1	25.7
125	15.1	9.8	14.6

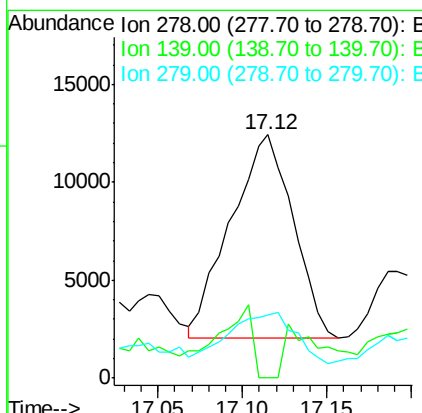
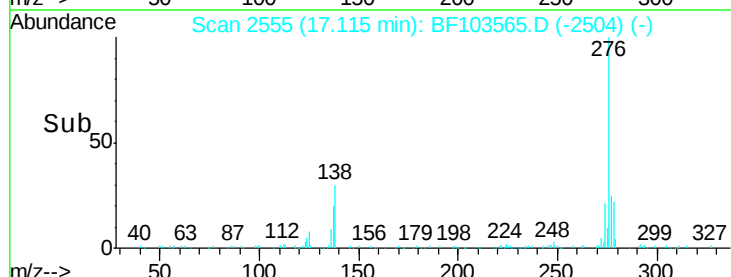
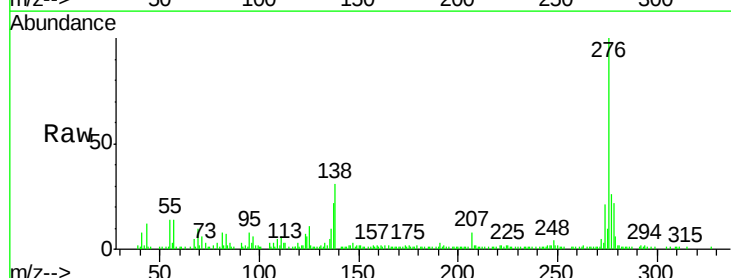
Manual Integrations
APPROVED

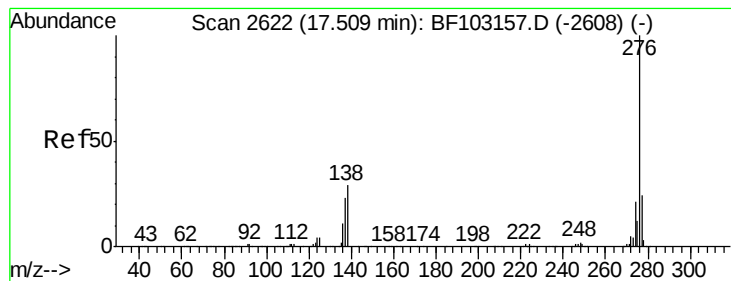
Sohil
3/12/2018 3:50:27 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.070 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.00 min
Lab File: BF103565.D
Acq: 9 Mar 2018 18:54

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9
279	25.7	19.0	28.4





#91

Benzo(a,h,i)perylene

Concen: 14.251 ng

RT: 17.59 min Scan# 2636

Delta R.T. 0.01 min

Lab File: BF103565.D

Acq: 9 Mar 2018 18:54

Instrument :

BNA_F

ClientSampleId :

SB-05-6.5-10.5

Tot Ion:	276	Resp:	120305
Ion Ratio		Lower	Upper
276	100		
277	24.7	17.9	26.9
138	32.3	21.8	32.8

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3/12/2018 3:50:27 PM

