

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF021218\
 Data File : BF102936.D
 Acq On : 12 Feb 2018 23:13
 Operator : SJ/JU
 Sample : J1522-01 50X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-05

Manual Integrations
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Sohil
 2/13/2018 11:26:06 AM

Quant Time: Feb 13 02:20:48 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	163928	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	661912	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	275541	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	391266	20.00	ng	0.00
75) Chrysene-d12	14.06	240	307690	20.00	ng	0.00
86) Perylene-d12	15.54	264	280244	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	4011	0.37	ng	0.00
7) Phenol-d6	6.50	99	5389	0.41	ng	0.00
23) Nitrobenzene-d5	7.44	82	3743	0.39	ng	-0.01
41) 2,4,6-Tribromophenol	10.72	330	463	0.21	ng	0.00
44) 2-Fluorobiphenyl	9.24	172	7467	0.45	ng	0.00
78) Terphenyl-d14	12.99	244	5290	0.41	ng	0.00

Target Compounds					Qvalue
10) Phenol	6.52	94	28677	2.059	ng 97
31) Naphthalene	8.19	128	2441333	75.490	ng 98
37) 2-Methylnaphthalene	8.88	142	291611	13.773	ng 99
45) 1,1'-Biphenyl	9.34	154	93751	4.040	ng 95
48) Acenaphthylene	9.79	152	531762	18.739	ng 99
54) Dibenzofuran	10.13	168	356700	14.914	ng 99
57) Fluorene	10.47	166	398454	22.898	ng 98
70) Phenanthrene	11.44	178	1410776	64.741	ng 99
71) Anthracene	11.49	178	578012	26.080	ng 99
72) Carbazole	11.64	167	230890	10.634	ng 99
74) Fluoranthene	12.63	202	1090120	49.722	ng 98
77) Pylene	12.86	202	846499	35.084	ng 99
80) Benzo(a)anthracene	14.04	228	430852m	22.265	ng
82) Chrysene	14.08	228	386966m	19.838	ng
85) Indeno(1,2,3-cd)pyrene	17.03	276	120725	7.462	ng 96
87) Benzo(b)fluoranthene	15.10	252	438523m	24.135	ng
88) Benzo(k)fluoranthene	15.13	252	119909m	6.907	ng
89) Benzo(a)pyrene	15.47	252	298102	18.227	ng 97
90) Dibenzo(a,h)anthracene	17.04	278	34041m	2.564	ng
91) Benzo(a,h,i)perylene	17.49	276	98570	7.586	ng 99

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

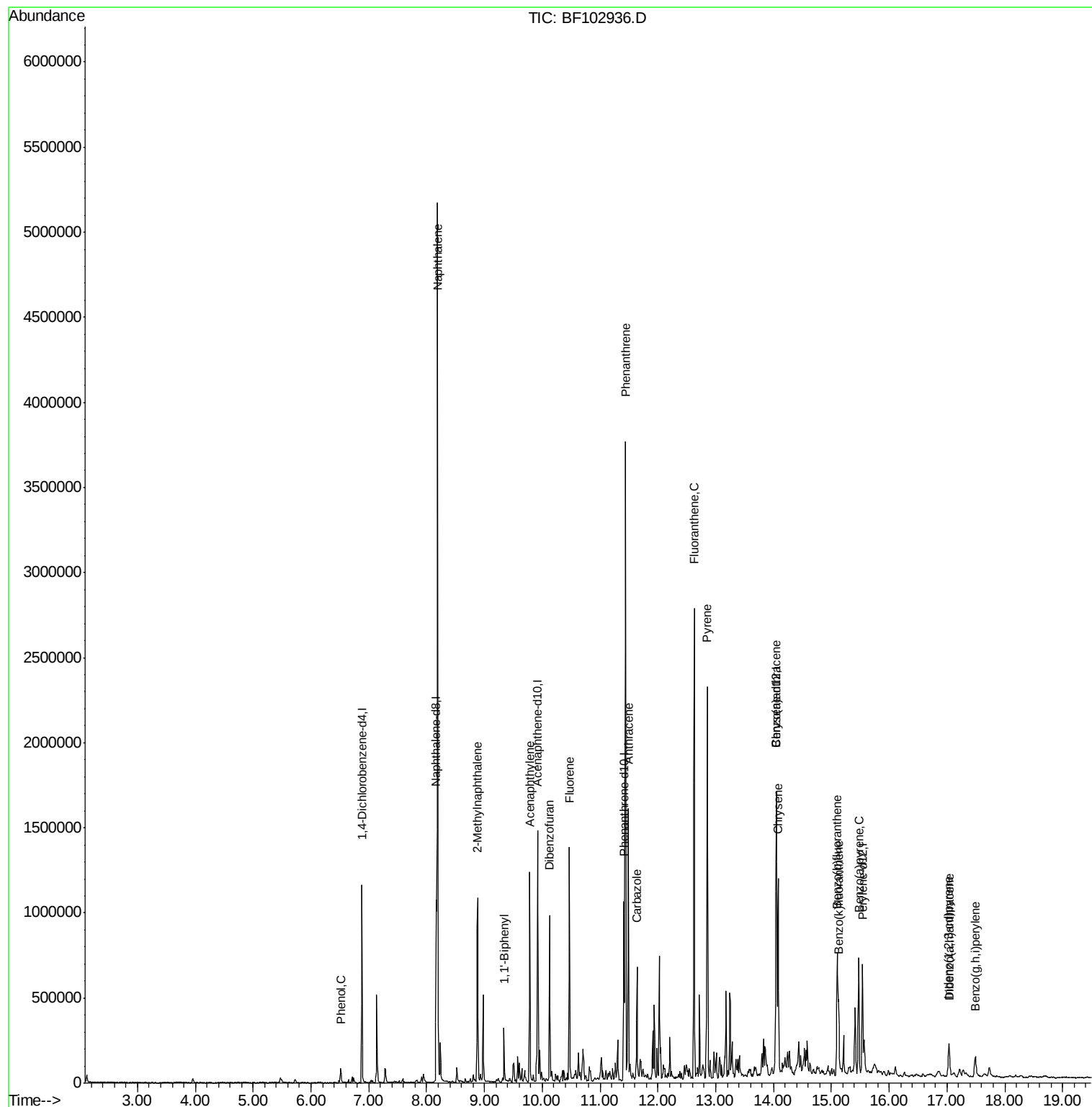
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF021218\
Data File : BF102936.D
Acq On : 12 Feb 2018 23:13
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#1

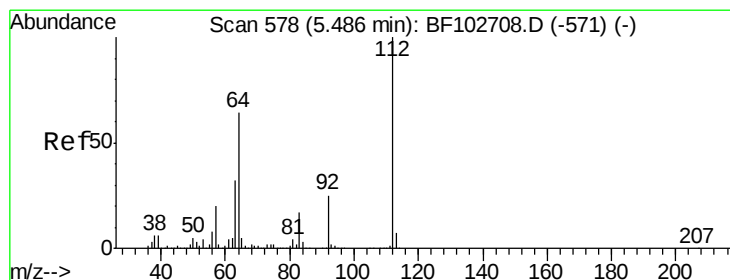
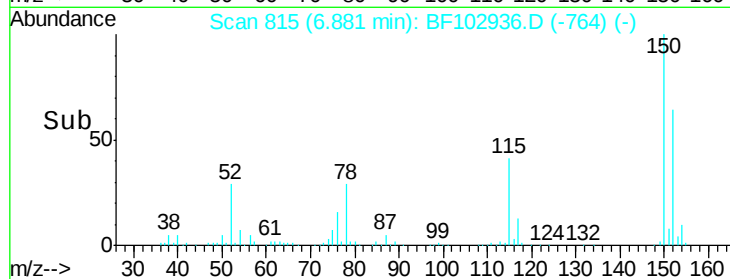
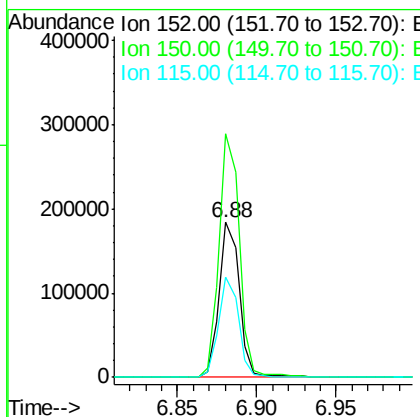
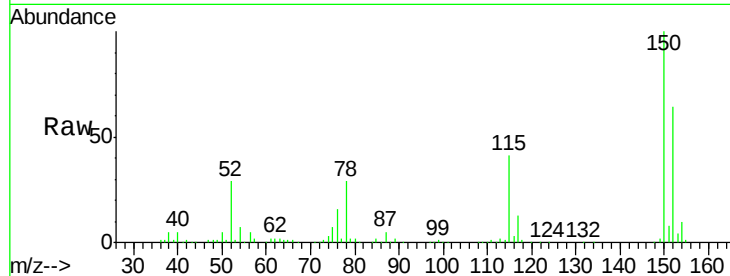
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. 0.00 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampled :
SP-05

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	64.7	50.1	75.1

Manual Integrations
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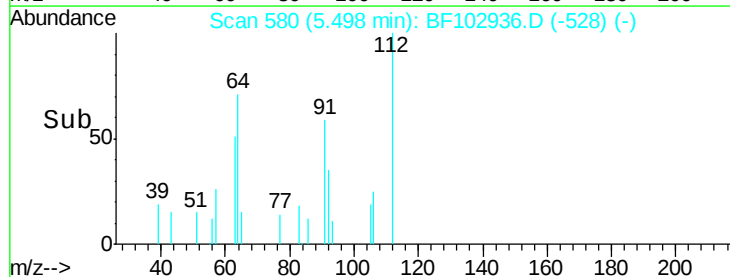
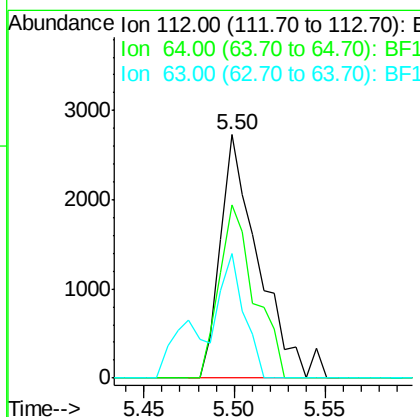
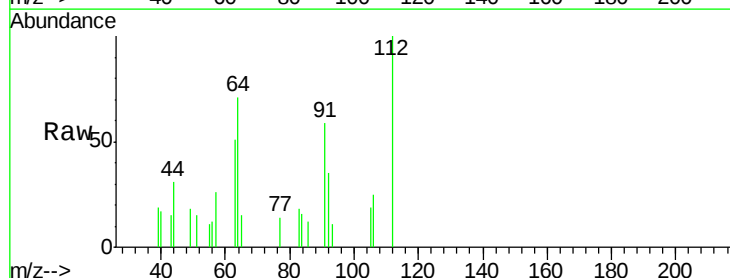
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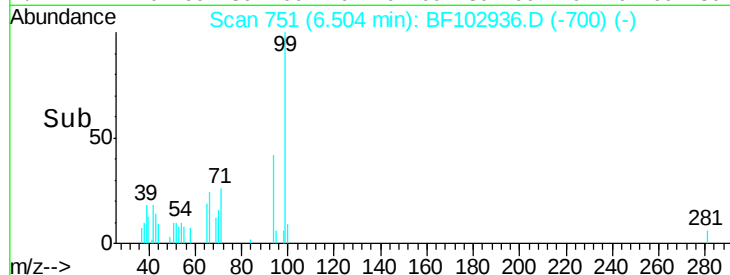
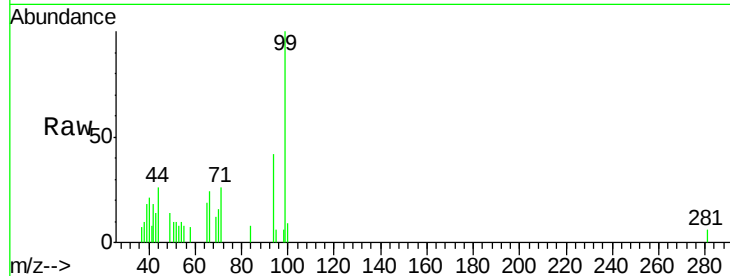


#5

2-Fluorophenol
Concen: 0.372 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.1	47.9	71.9
63	51.2	23.7	35.5





#7

Phenol-d6

Concen: 0.415 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Tot Ion:	99	Resp:	5389
Ion Ratio	Lower	Upper	
99	100		
42	18.3	14.5	21.7
71	26.1	25.4	38.0

Instrument :

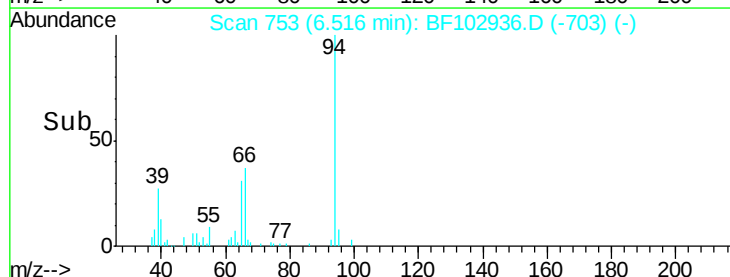
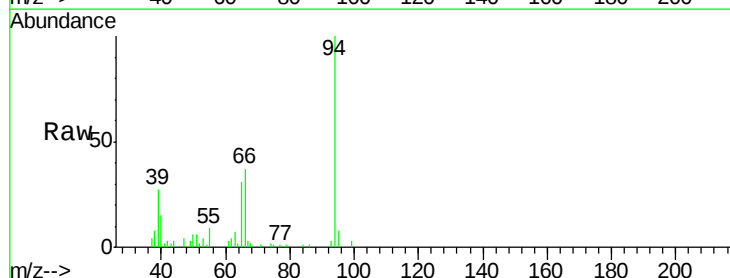
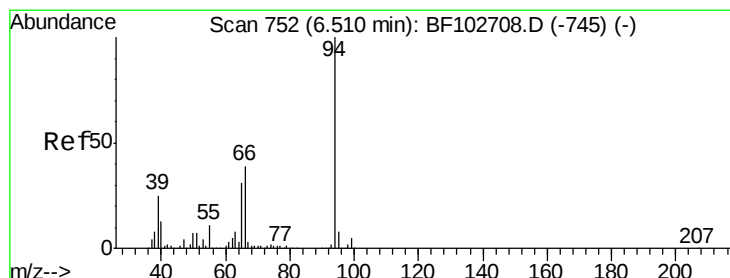
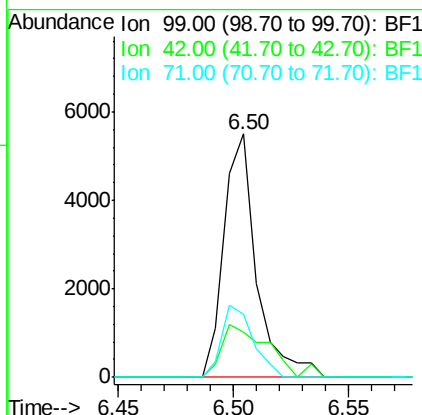
BNA_F

ClientSampleId :

SP-05

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#10

Phenol

Concen: 2.059 ng

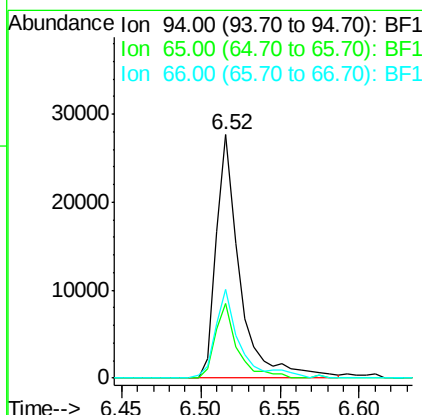
RT: 6.52 min Scan# 753

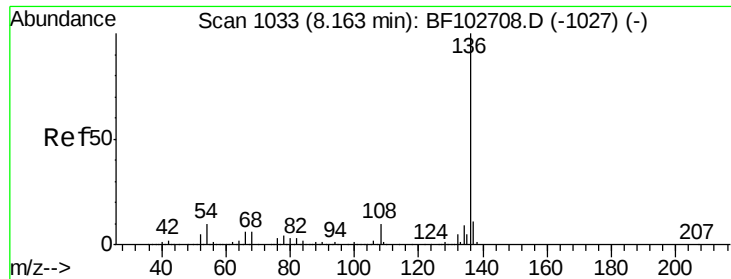
Delta R.T. -0.01 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Tgt Ion:	94	Resp:	28677
Ion Ratio	Lower	Upper	
94	100		
65	30.8	7.9	47.9
66	36.7	16.2	56.2





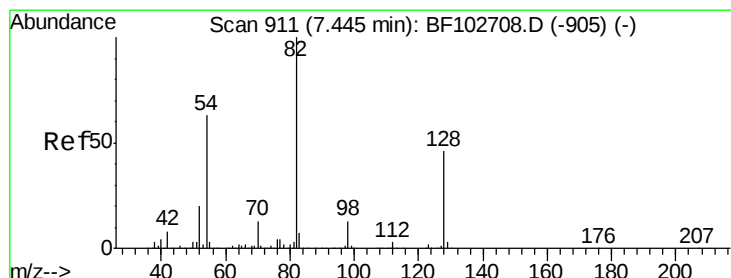
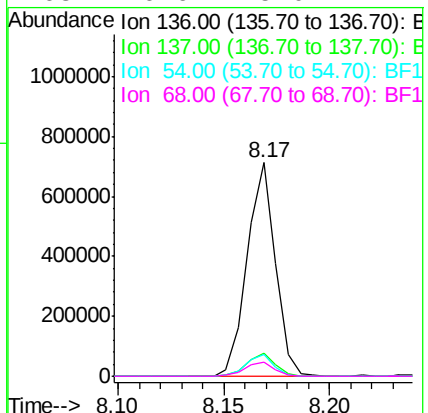
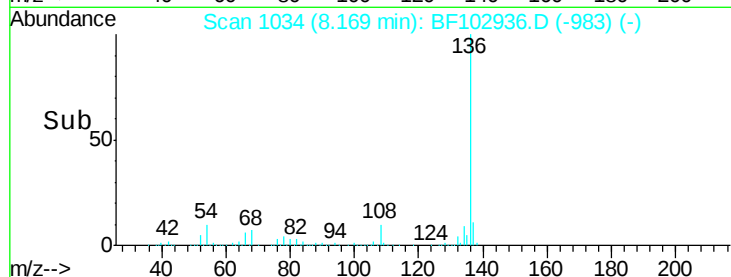
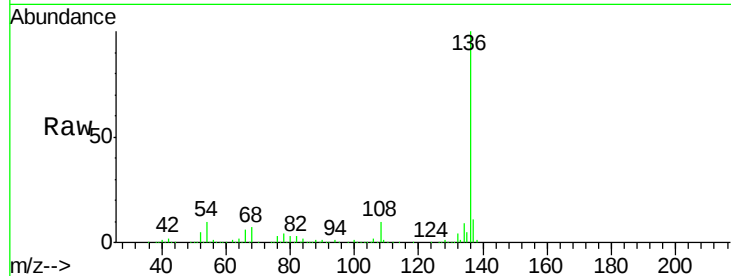
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1034
Delta R.T. 0.00 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampleId :
SP-05

Tot Ion	Ratio	Resp	Lower	Upper
136	100	661912		
137	10.9	8.9	13.3	
54	9.9	6.6	9.8	
68	6.6	5.0	7.4	

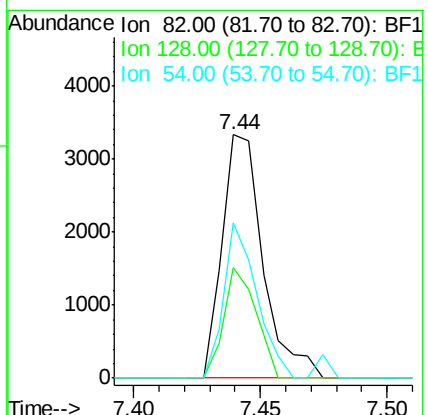
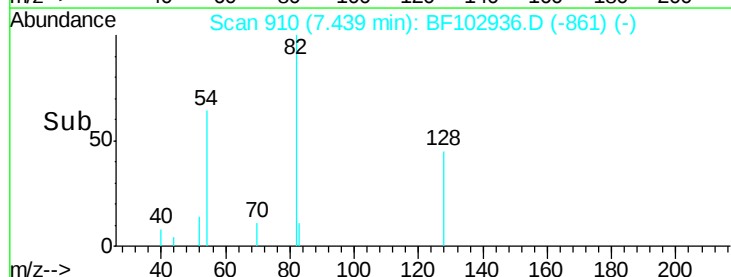
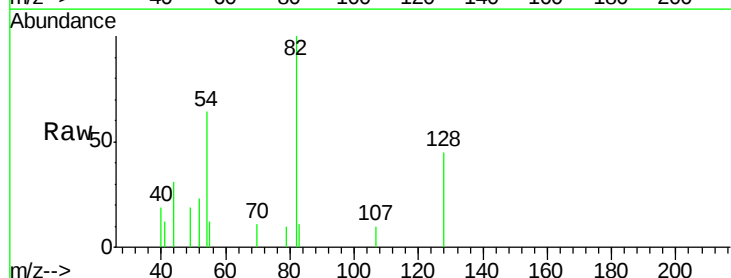
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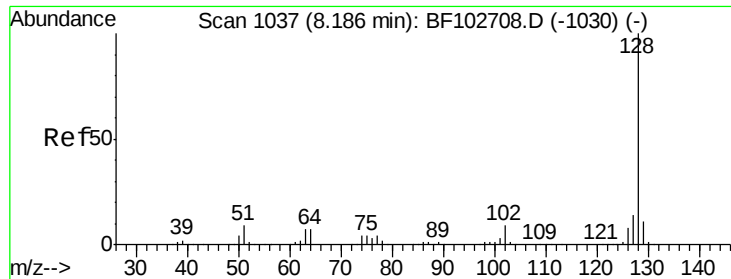
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#23
Nitrobenzene-d5
Concen: 0.392 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	3743		
128	45.4	36.1	54.1	
54	63.7	41.4	62.2	





#31

Naphthalene

Concen: 75.490 ng

RT: 8.19 min Scan# 1038

Delta R.T. 0.00 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Instrument :

BNA_F

ClientSampleId :

SP-05

Tot Ion:128 Resp: 2441333

Ion Ratio Lower Upper

128 100

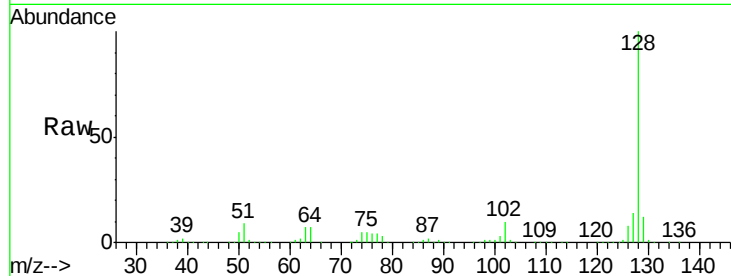
129 11.7 8.8 13.2

127 14.2 10.9 16.3

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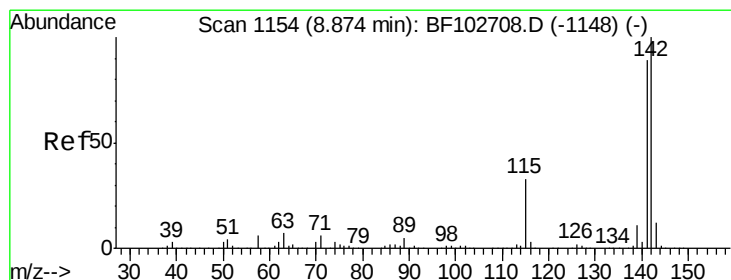
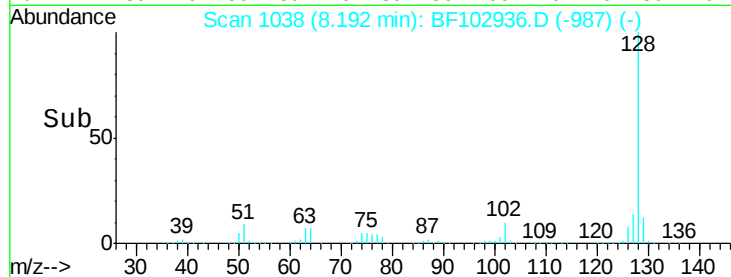
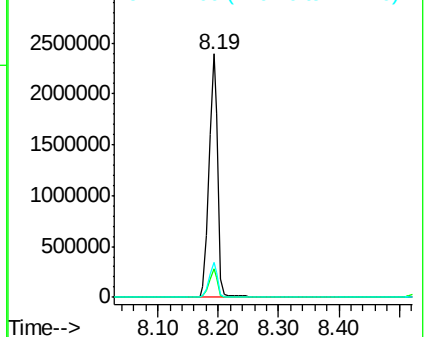
2/13/2018 11:26:06 AM



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 13.773 ng

RT: 8.88 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

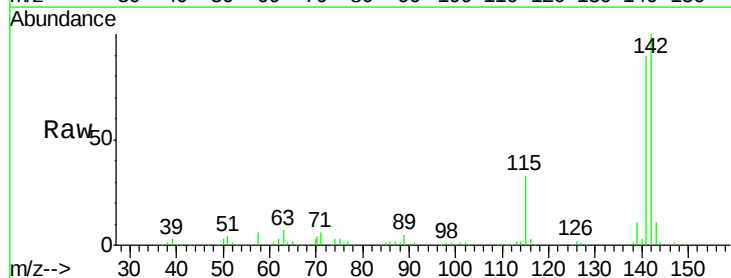
Tgt Ion:142 Resp: 291611

Ion Ratio Lower Upper

142 100

141 89.9 70.8 106.2

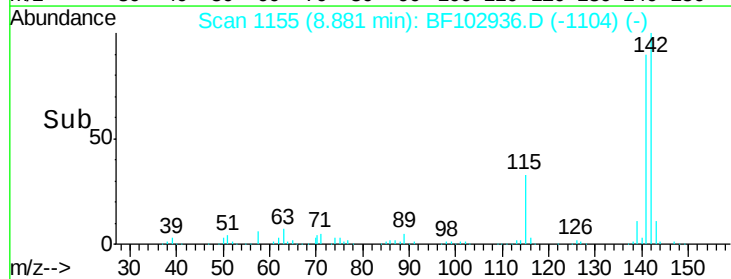
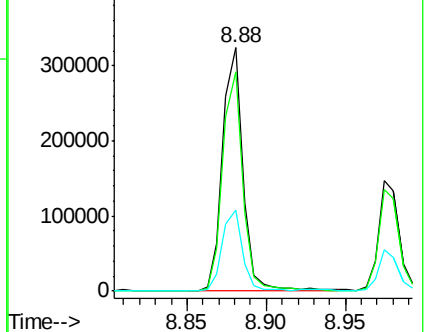
115 33.3 26.1 39.1

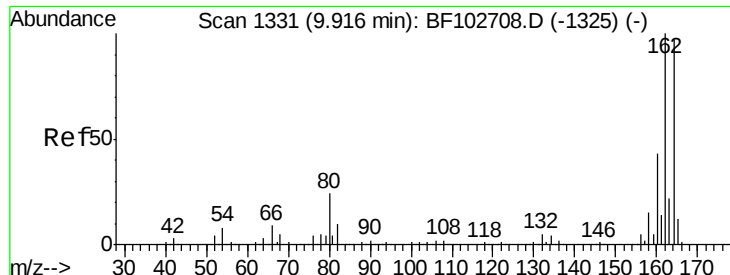


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





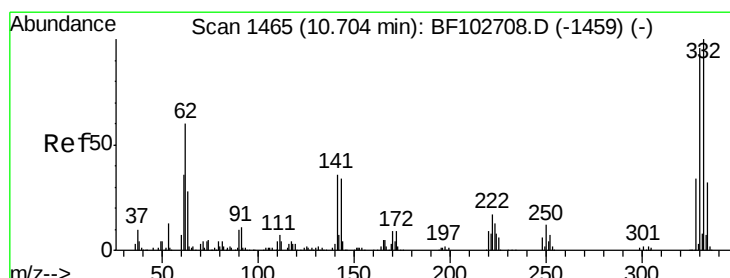
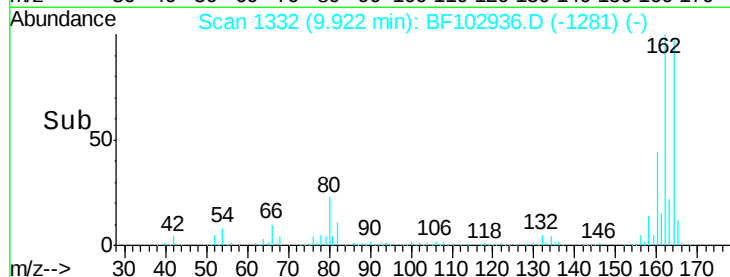
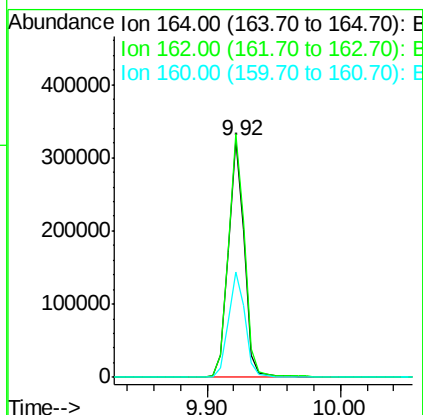
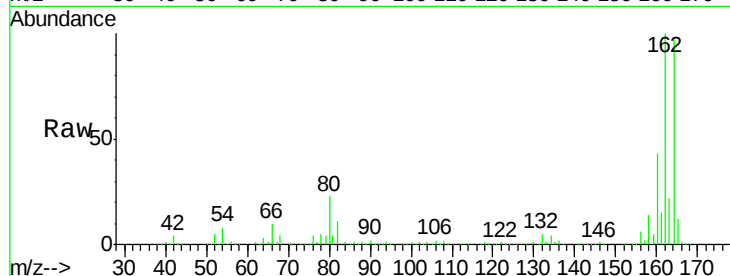
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. 0.00 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampleId :
SP-05

Tot Ion	Ratio	Resp	Lower	Upper
164	100	275541		
162	102.8	86.1	129.1	
160	44.7	38.3	57.5	

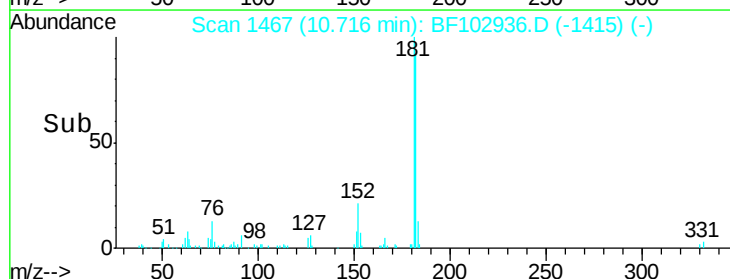
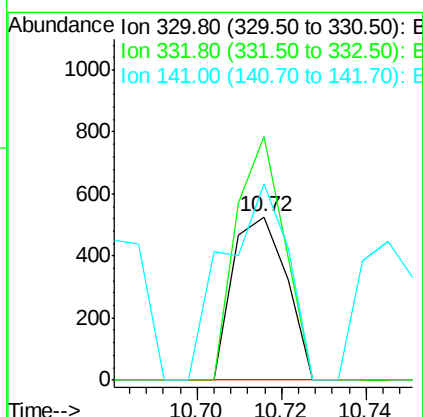
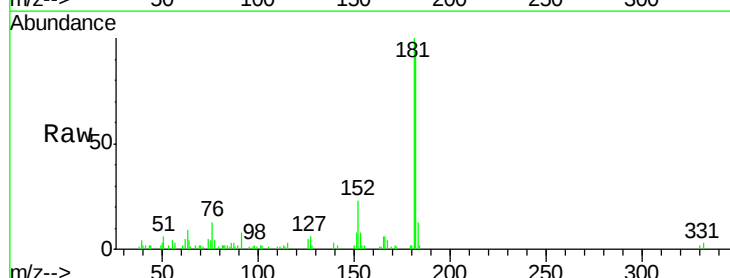
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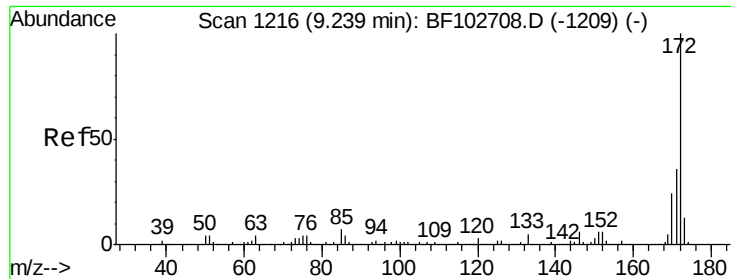
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#41
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 10.72 min Scan# 1467
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	463		
332	133.3	77.0	115.6#	
141	142.5	29.9	44.9#	





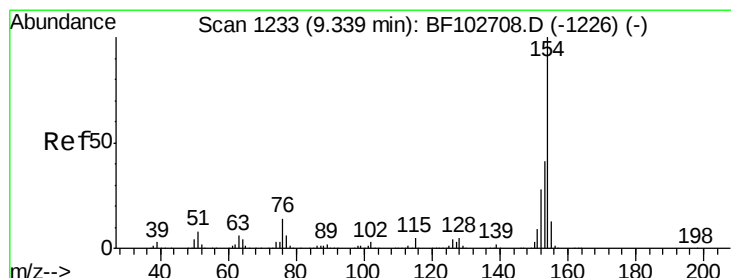
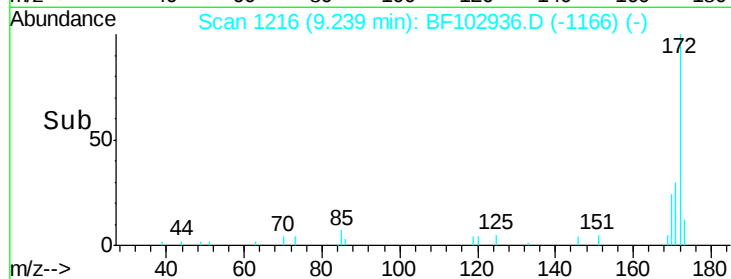
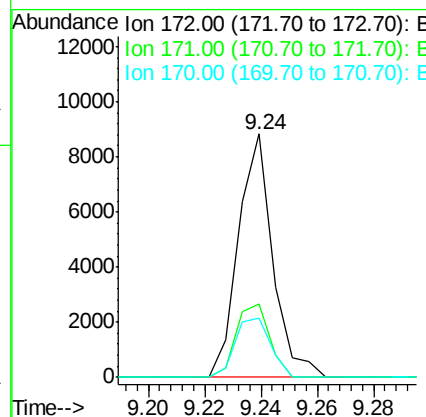
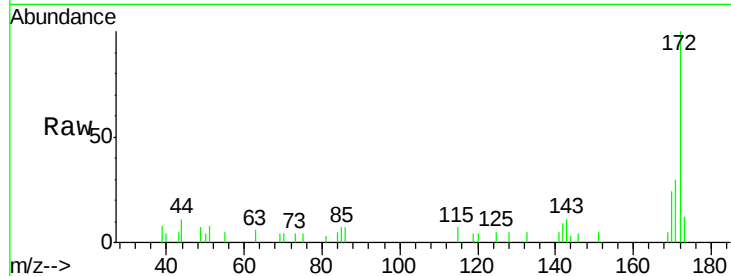
#44
2-Fluorobiphenyl
Concen: 0.450 ng
RT: 9.24 min Scan# 1216
Delta R.T. -0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampleId :
SP-05

Tot Ion	Ratio	Lower	Upper
172	100		
171	30.2	29.7	44.5
170	24.4	19.6	29.4

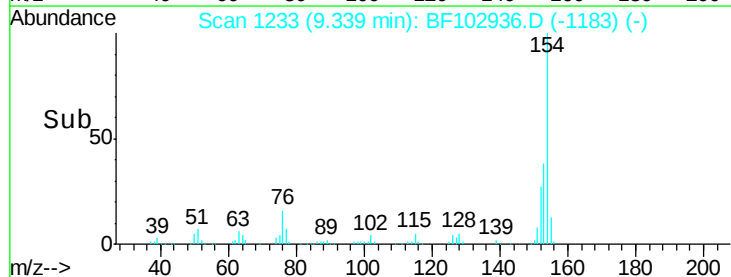
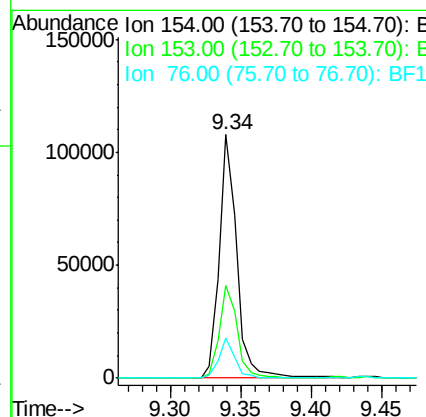
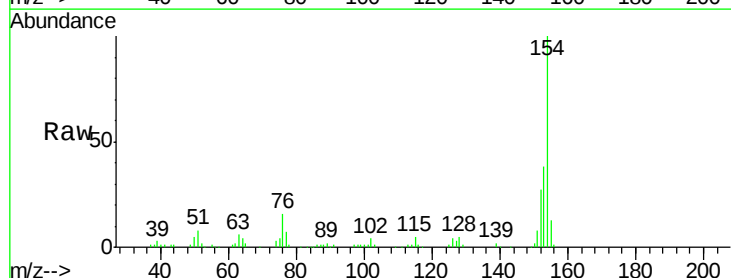
Manual Integrations
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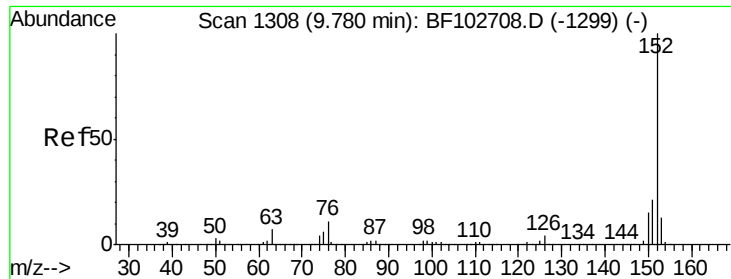
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#45
1,1'-Biphenyl
Concen: 4.040 ng
RT: 9.34 min Scan# 1233
Delta R.T. -0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.0	21.3	61.3
76	16.3	0.0	34.0





#48

Acenaphthylene

Concen: 18.739 ng

RT: 9.79 min Scan# 1309

Delta R.T. 0.00 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Instrument :

BNA_F

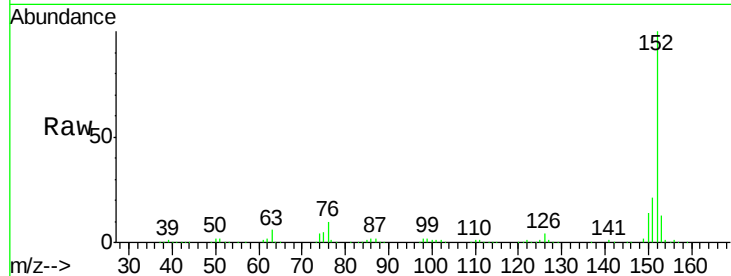
ClientSampleId :

SP-05

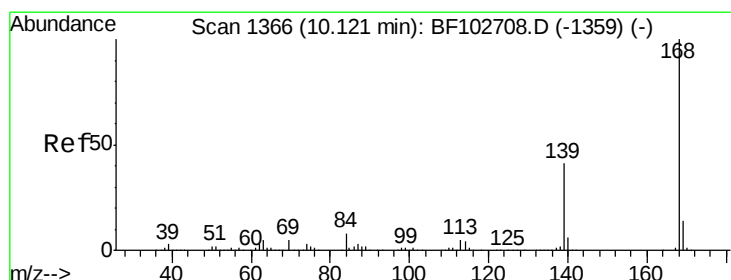
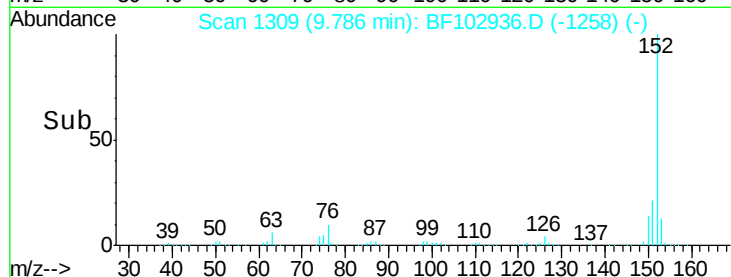
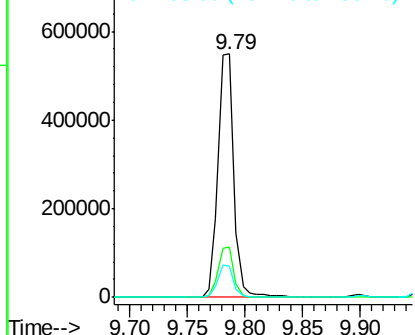
Tot Ion:	152	Resp:	531762
Ion Ratio	Lower	Upper	
152	100		
151	20.7	16.3	24.5
153	12.7	10.7	16.1

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#54

Dibenzofuran

Concen: 14.914 ng

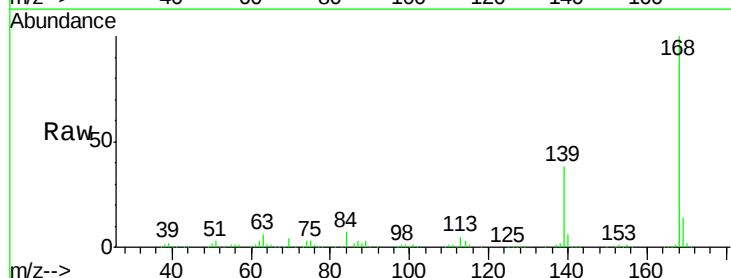
RT: 10.13 min Scan# 1367

Delta R.T. 0.00 min

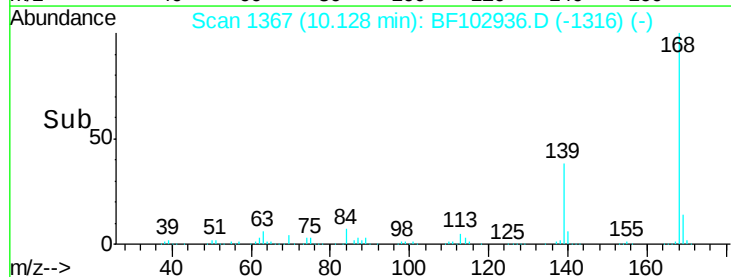
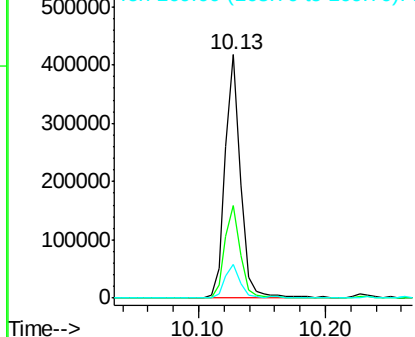
Lab File: BF102936.D

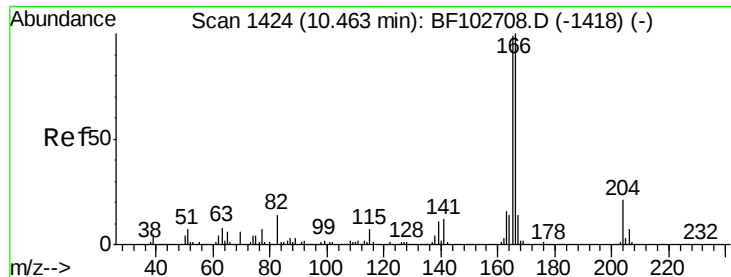
Acq: 12 Feb 2018 23:13

Tgt Ion:	168	Resp:	356700
Ion Ratio	Lower	Upper	
168	100		
139	38.3	30.1	45.1
169	13.8	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





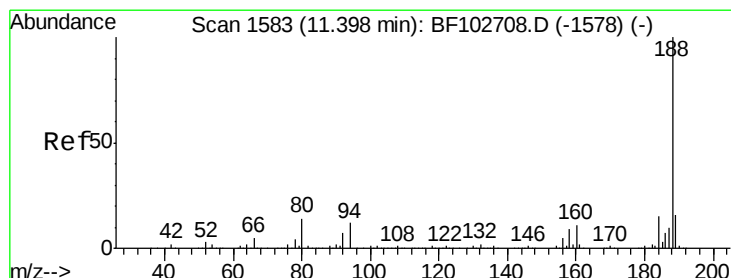
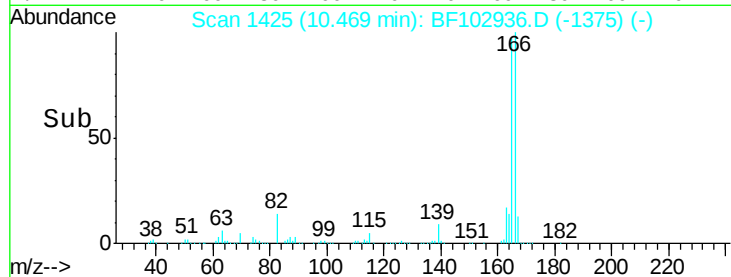
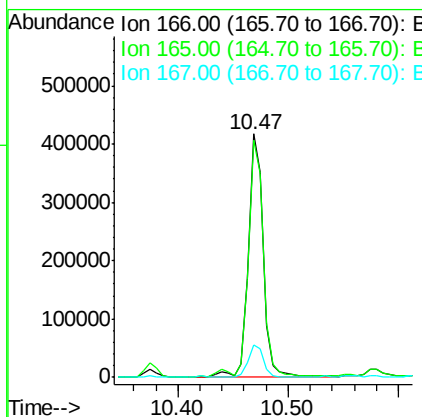
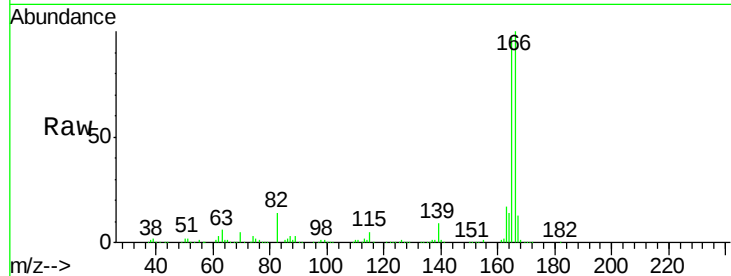
#57
Fluorene
 Concen: 22.898 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.01 min
 Lab File: BF102936.D
 Acq: 12 Feb 2018 23:13

Instrument :
 BNA_F
 ClientSampleID :
 SP-05

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.8	119.8
167	13.4	10.6	16.0

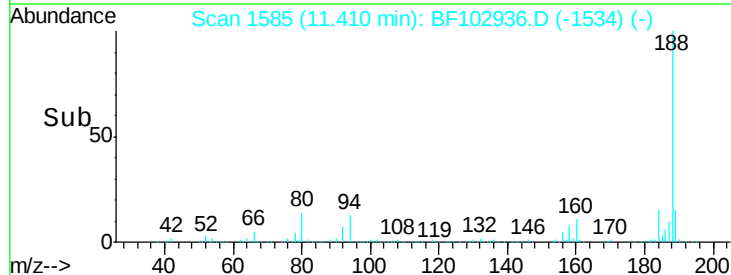
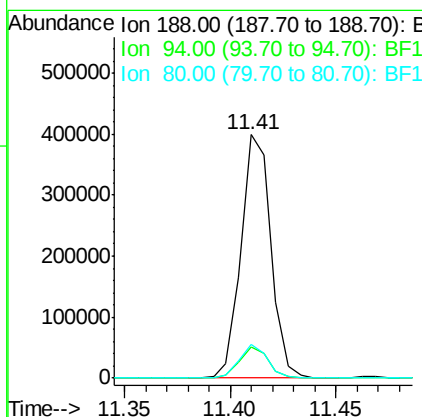
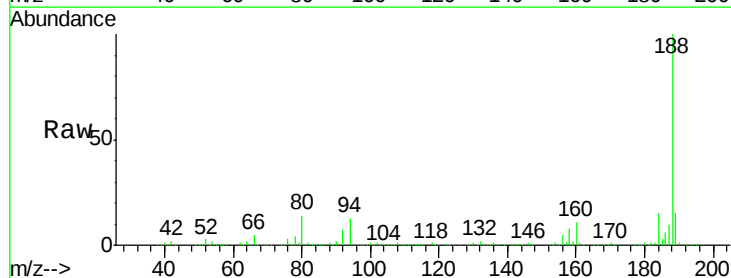
Manual Integrations
 APPROVED

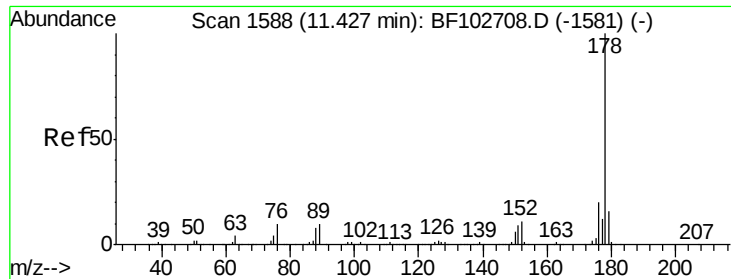
Sohil
 2/13/2018 11:26:06 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: BF102936.D
 Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.7	8.5	12.7
80	14.0	9.2	13.8#





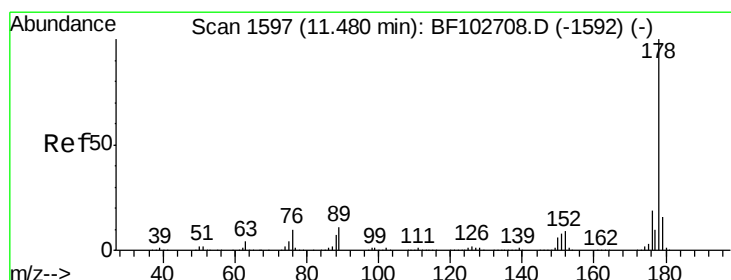
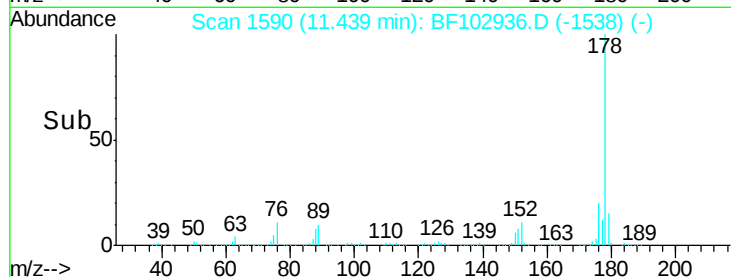
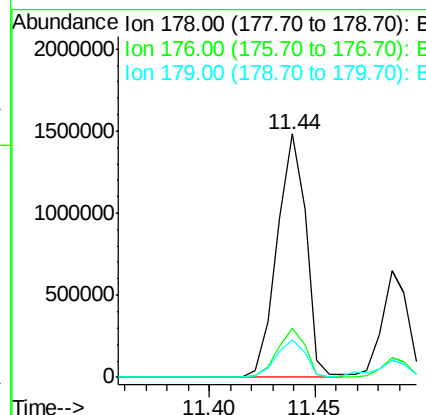
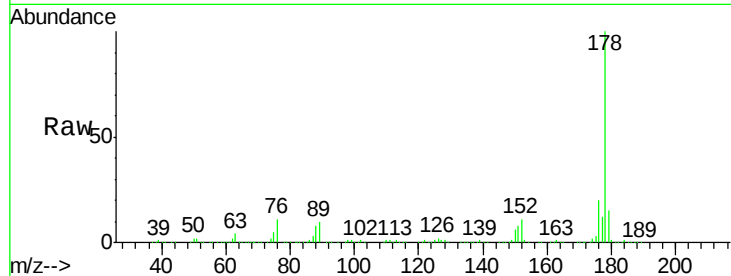
#70
Phenanthrene
Concen: 64.741 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampled :
SP-05

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	15.4	13.0	19.6

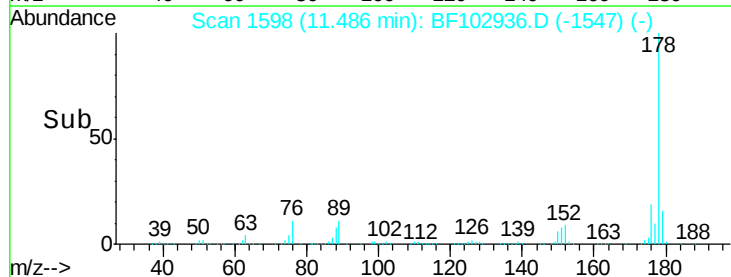
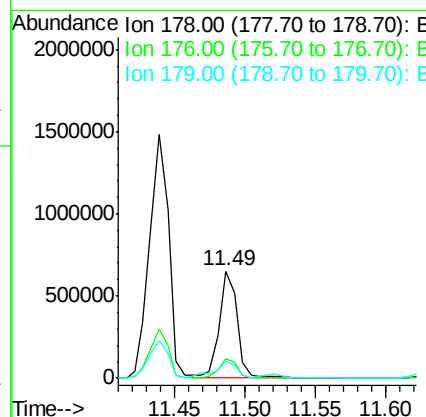
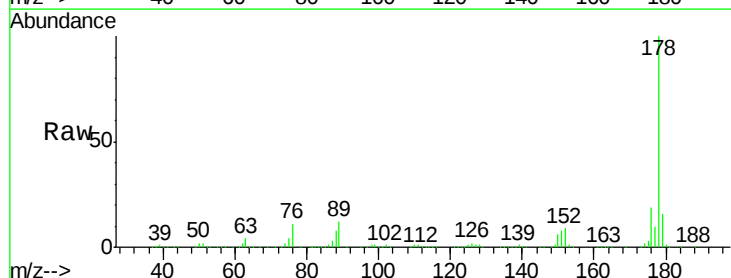
Manual Integrations
APPROVED

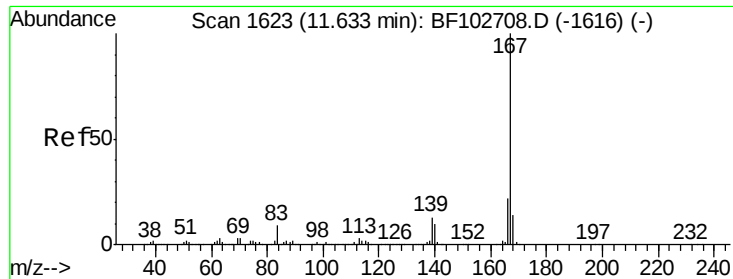
Sohil
2/13/2018 11:26:06 AM



#71
Anthracene
Concen: 26.080 ng
RT: 11.49 min Scan# 1598
Delta R.T. 0.00 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.6	19.0





#72

Carbazole

Concen: 10.634 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Instrument :

BNA_F

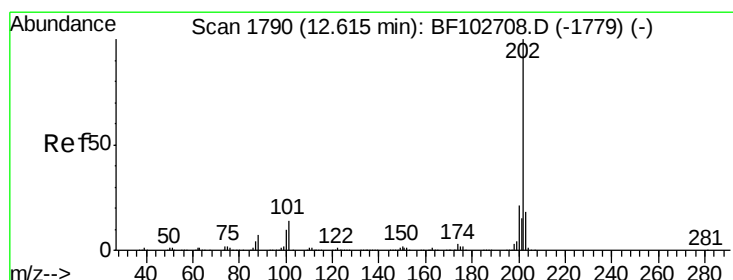
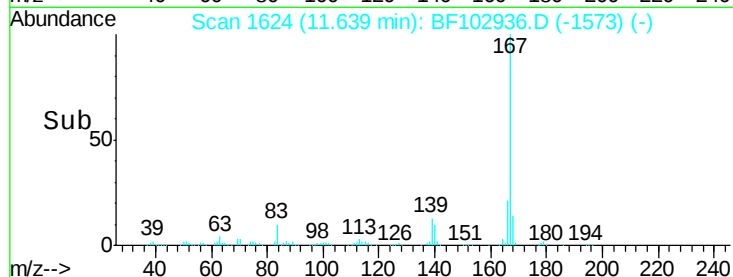
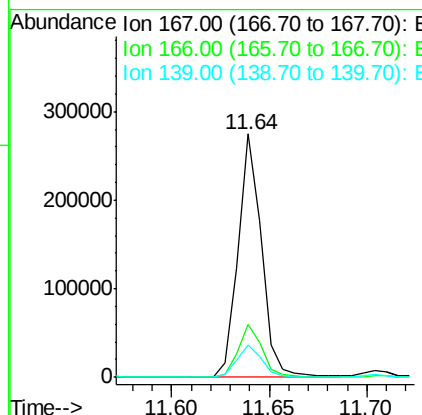
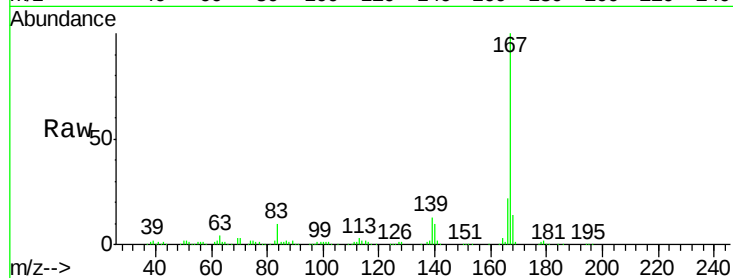
ClientSampled :

SP-05

Tot Ion:	167	Resp:	230890
Ion Ratio		Lower	Upper
167	100		
166	21.6	17.6	26.4
139	13.4	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 49.722 ng

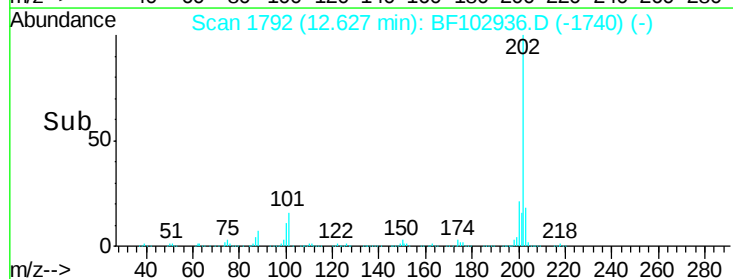
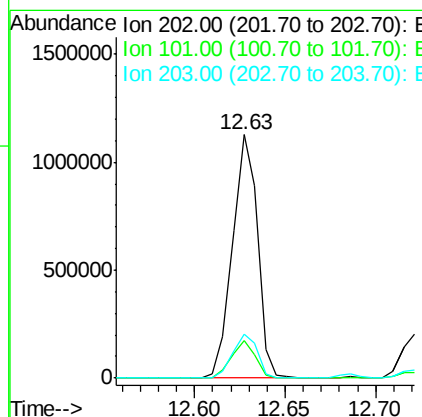
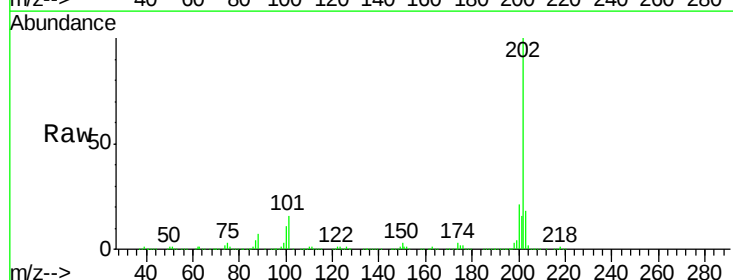
RT: 12.63 min Scan# 1792

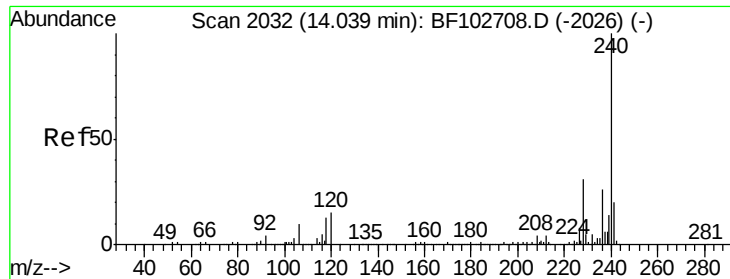
Delta R.T. 0.01 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Tgt Ion:	202	Resp:	1090120
Ion Ratio		Lower	Upper
202	100		
101	15.6	0.0	34.1
203	17.9	0.0	38.1





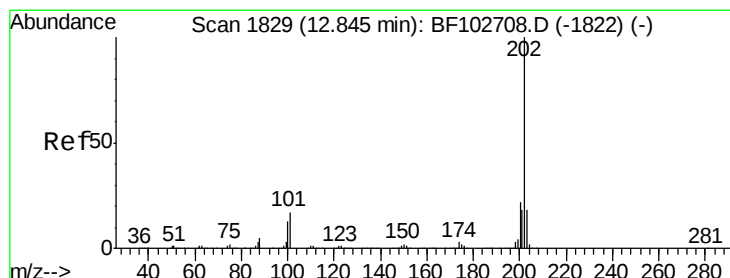
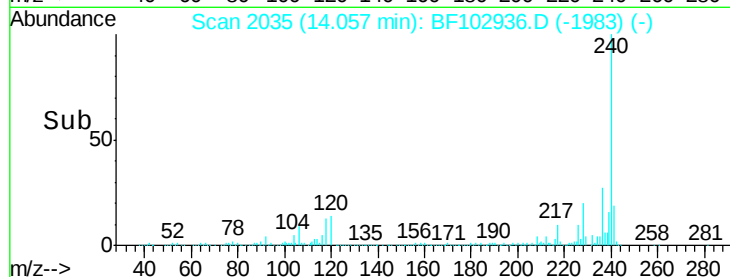
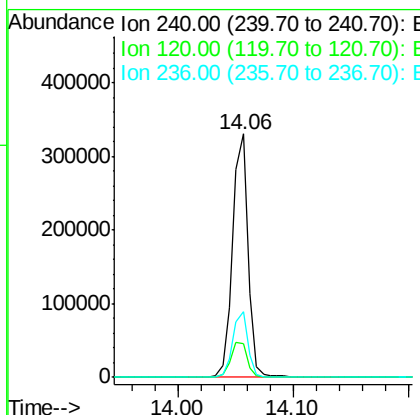
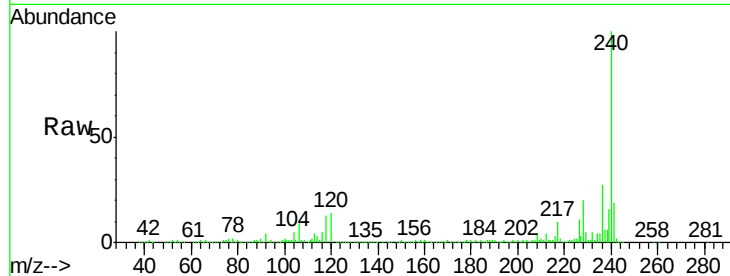
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampleId :
SP-05

Tot Ion	Ratio	Resp	Lower	Upper
240	100	307690		
120	13.6	9.5	14.3	
236	26.8	20.7	31.1	

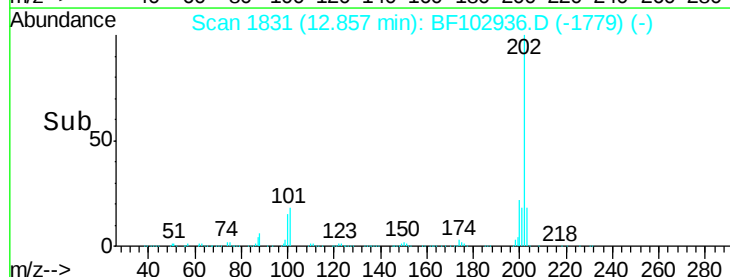
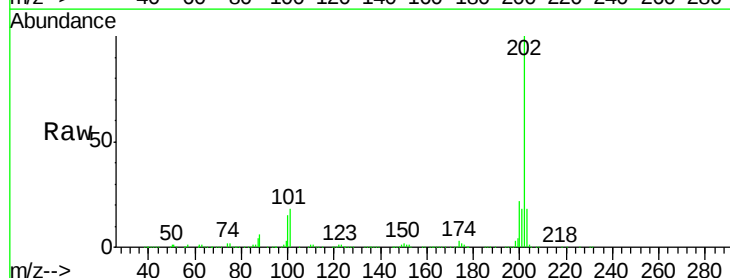
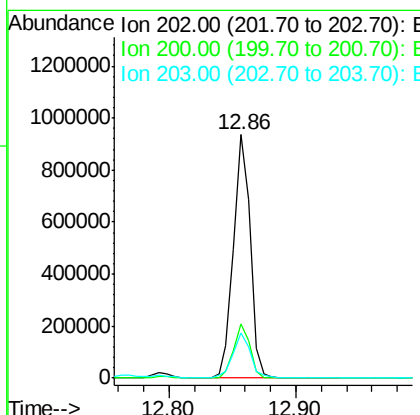
Manual Integrations
APPROVED

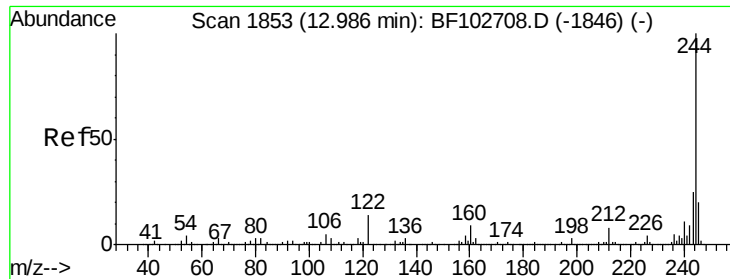
Sohil
2/13/2018 11:26:06 AM



#77
Pyrene
Concen: 35.084 ng
RT: 12.86 min Scan# 1831
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	846499		
200	22.1	17.4	26.2	
203	18.5	14.3	21.5	





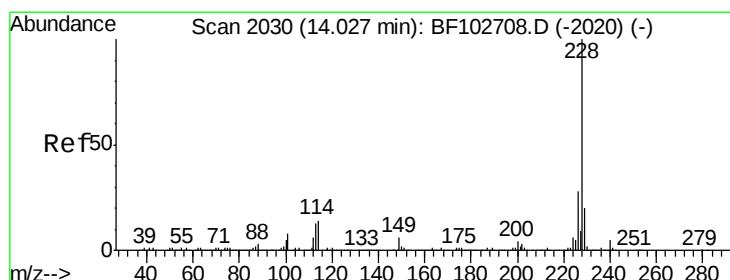
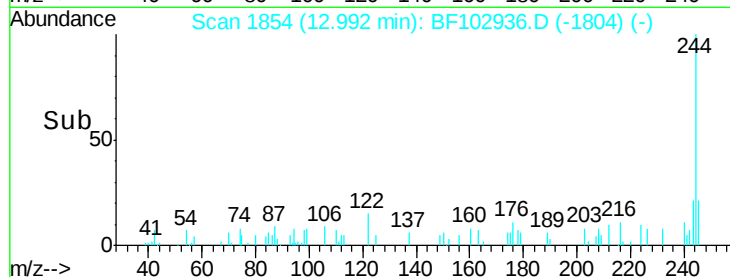
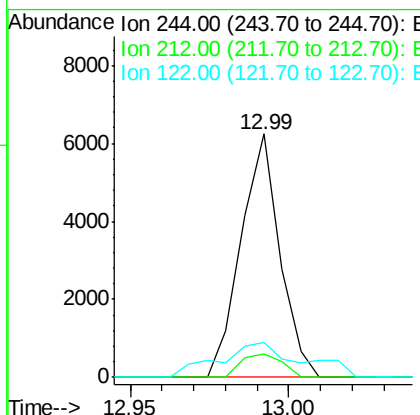
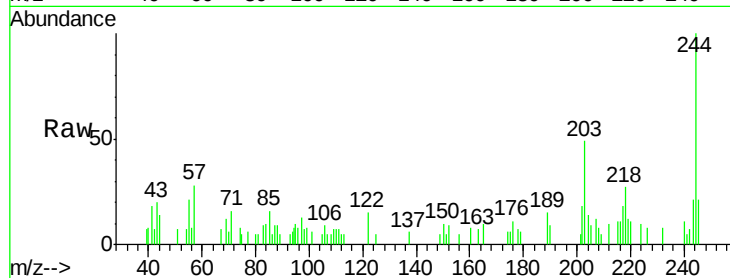
#78
 Terphenyl-d14
 Concen: 0.407 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: BF102936.D
 Acq: 12 Feb 2018 23:13

Instrument :
 BNA_F
 ClientSampleId :
 SP-05

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.7	5.4	8.0#
122	14.6	11.0	16.4

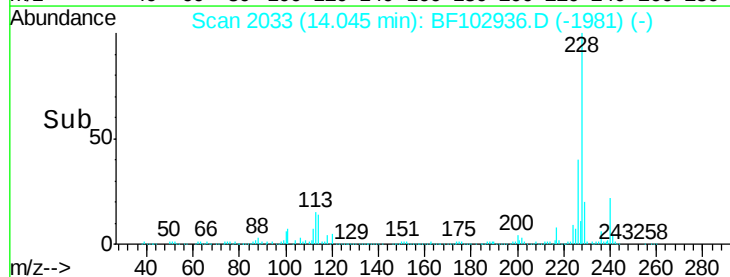
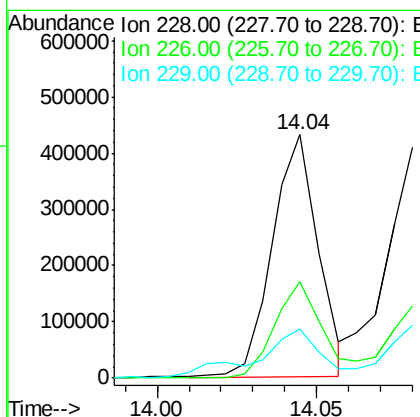
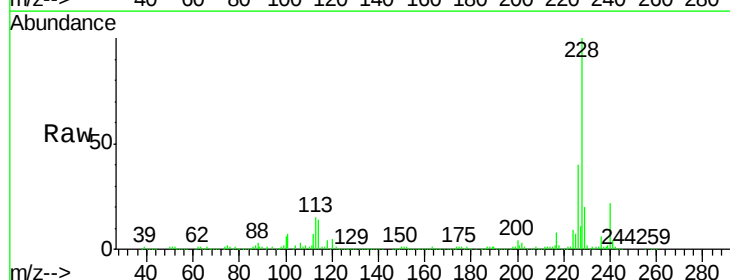
Manual Integrations
 APPROVED

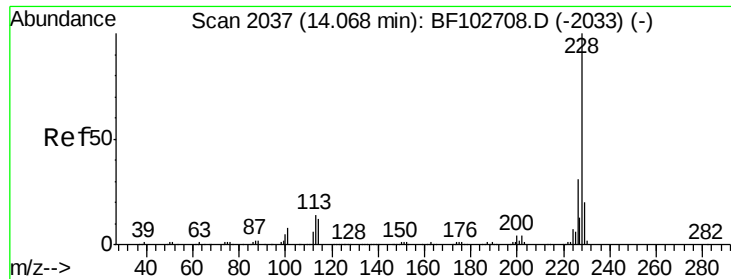
Sohil
 2/13/2018 11:26:06 AM



#80
 Benzo(a)anthracene
 Concen: 22.265 ng m
 RT: 14.04 min Scan# 2033
 Delta R.T. 0.01 min
 Lab File: BF102936.D
 Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.7	22.6	33.8#
229	20.1	15.8	23.6





#82

Chrysene

Concen: 19.838 ng/mL

RT: 14.08 min Scan# 2039

Delta R.T. 0.00 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Instrument :

BNA_F

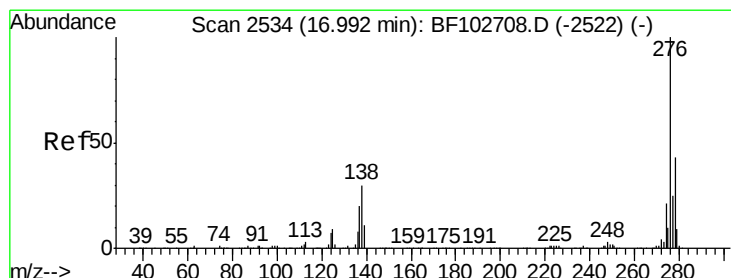
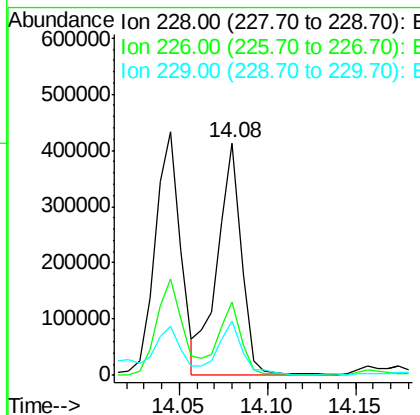
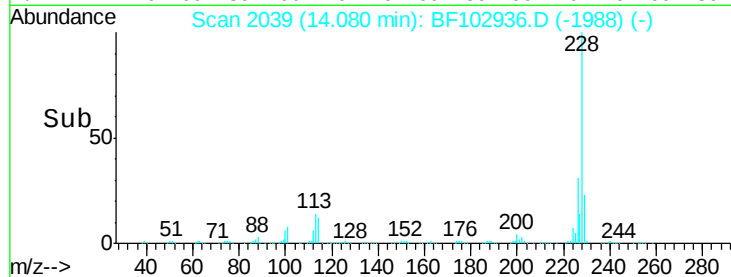
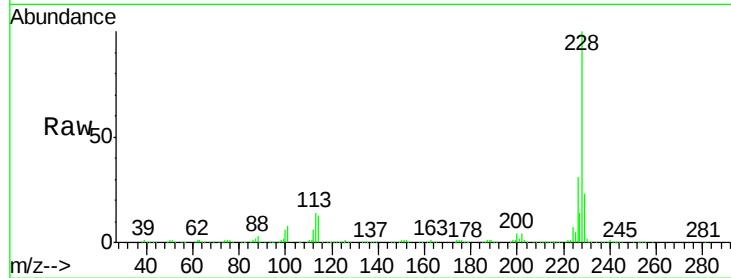
ClientSampled :

SP-05

Tot Ion:	228	Resp:	386966
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.0	37.6
229	23.1	16.2	24.4

Manual Integrations
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2/13/2018 11:26:06 AM



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.462 ng/mL

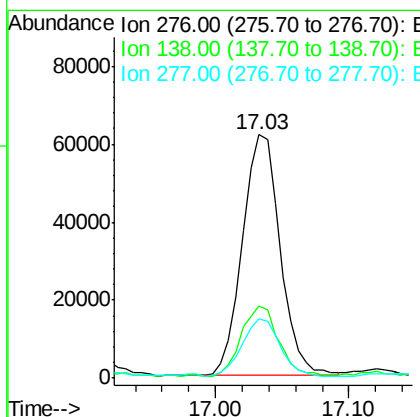
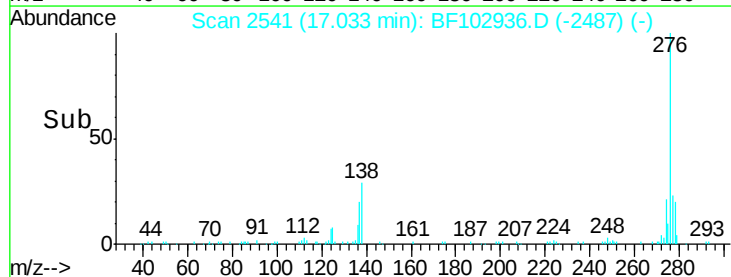
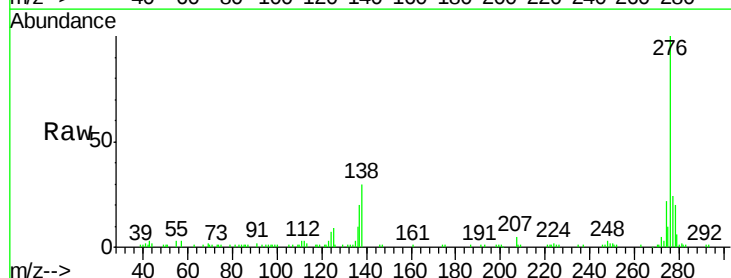
RT: 17.03 min Scan# 2541

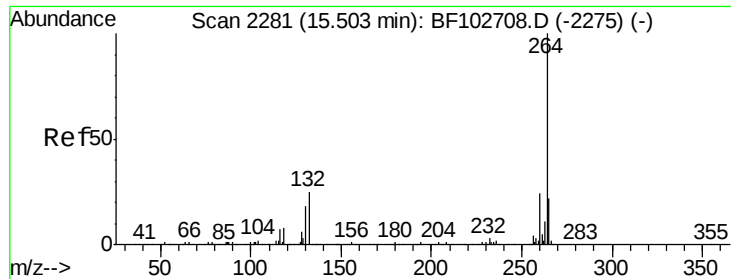
Delta R.T. 0.02 min

Lab File: BF102936.D

Acq: 12 Feb 2018 23:13

Tgt Ion:	276	Resp:	120725
Ion Ratio	Lower	Upper	
276	100		
138	28.7	25.0	37.6
277	23.9	20.1	30.1





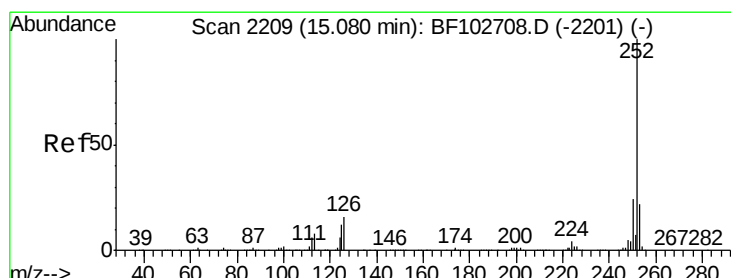
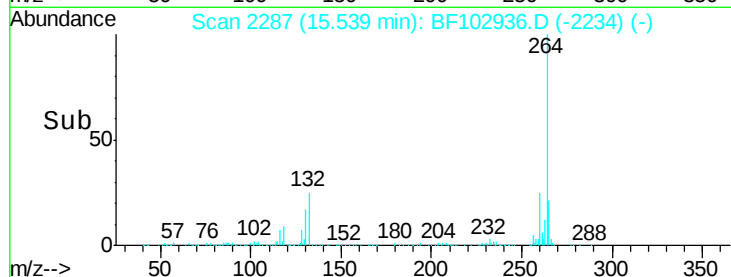
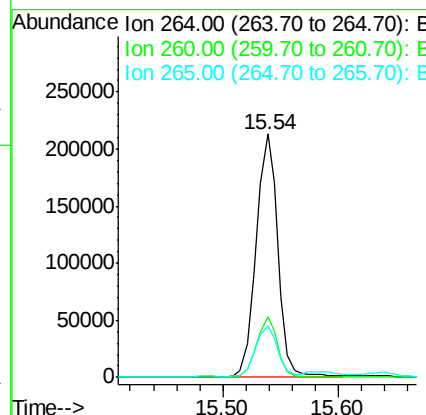
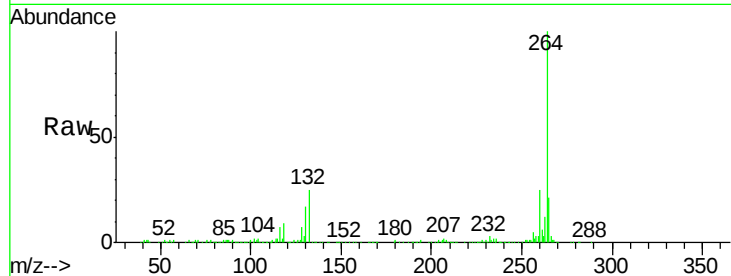
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampled :
SP-05

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	21.3	17.5	26.3

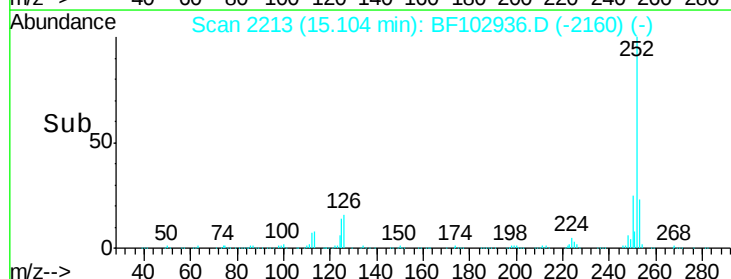
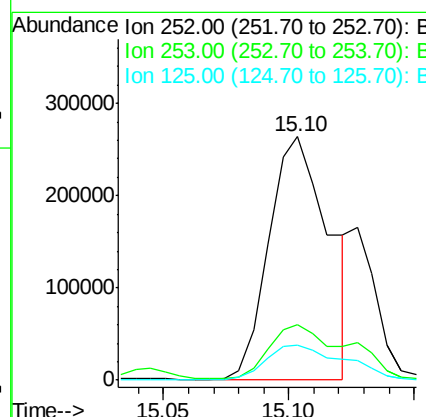
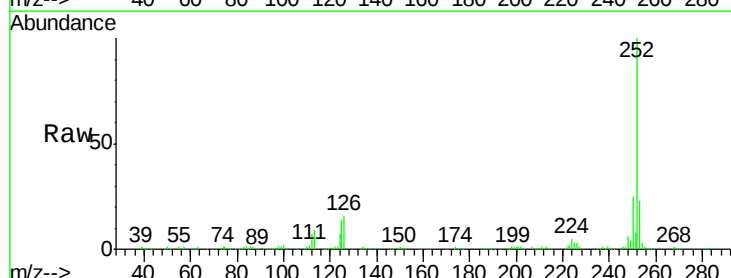
Manual Integrations
APPROVED

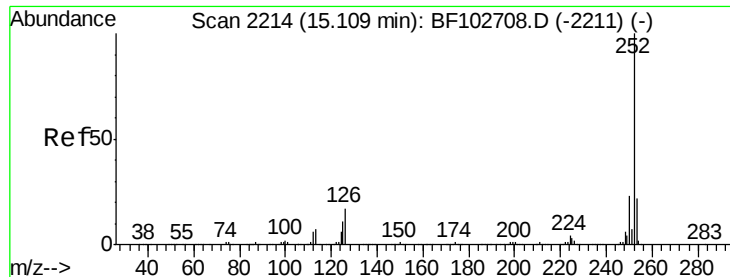
Sohil
2/13/2018 11:26:06 AM



#87
Benzo(b)fluoranthene
Concen: 24.135 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	14.3	9.0	13.6#





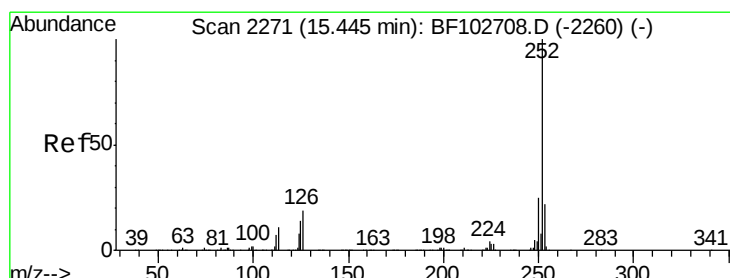
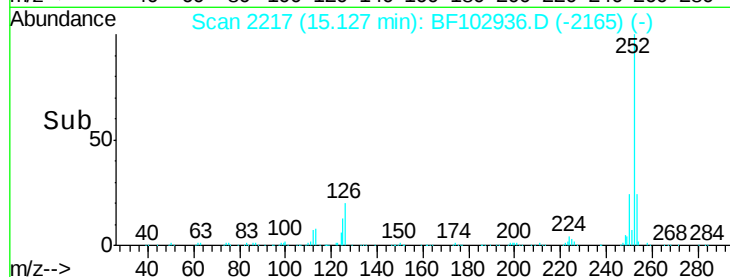
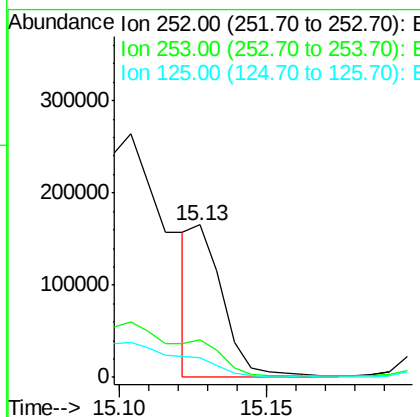
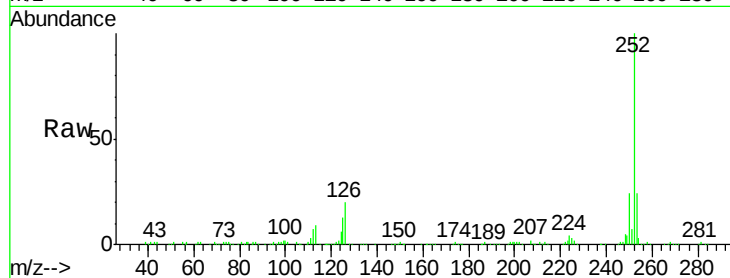
#88
Benzo(k)fluoranthene
Concen: 6.907 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampleId :
SP-05

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.9	26.9
125	13.1	10.2	15.2

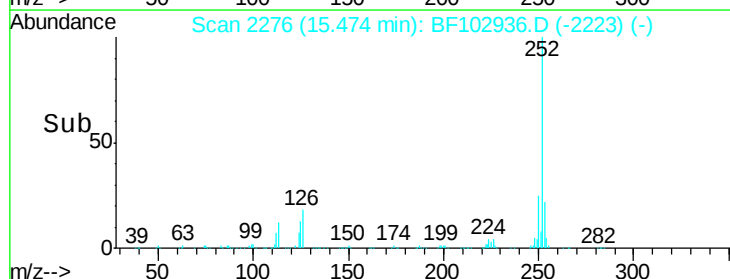
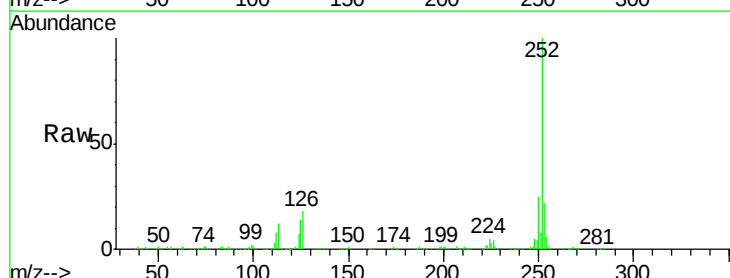
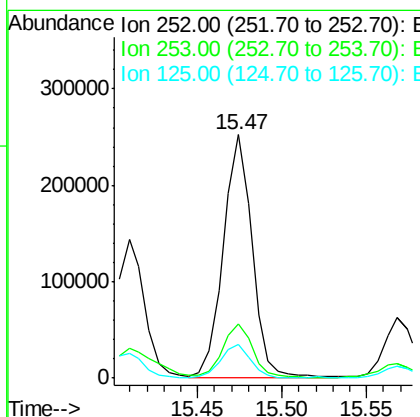
Manual Integrations
APPROVED

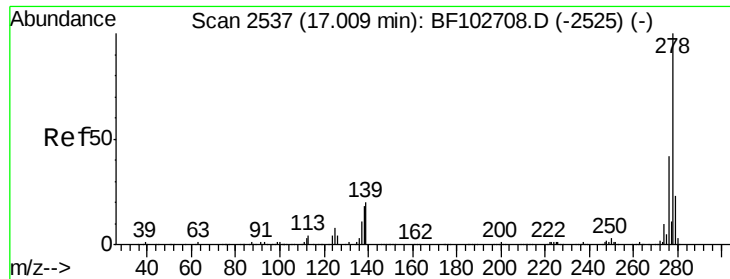
Sohil
2/13/2018 11:26:06 AM



#89
Benzo(a)pyrene
Concen: 18.227 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	13.8	9.8	14.6





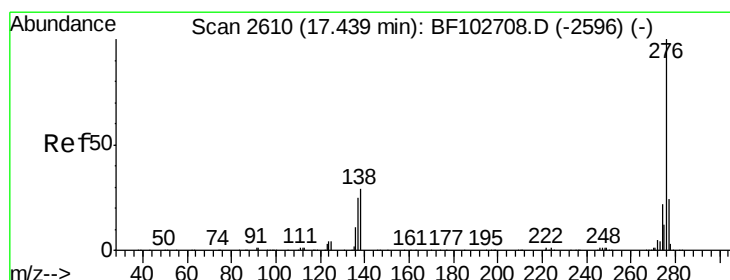
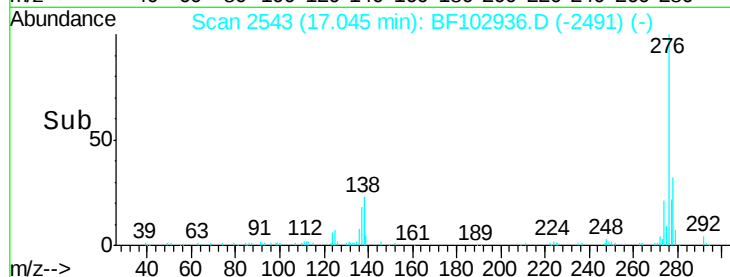
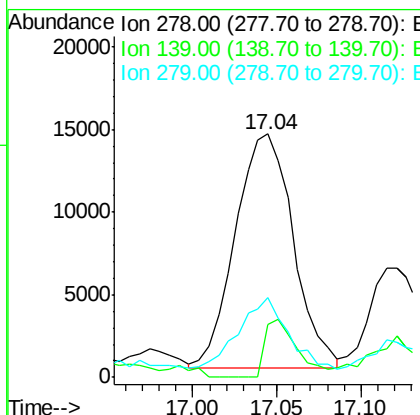
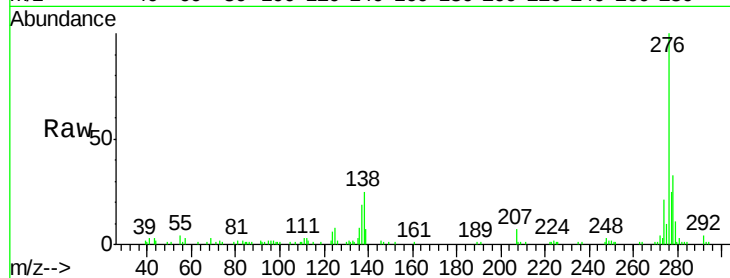
#90
Dibenzo(a,h)anthracene
Concen: 2.564 ng m
RT: 17.04 min Scan# 2543
Delta R.T. 0.01 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Instrument :
BNA_F
ClientSampleId :
SP-05

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.7	15.9	23.9
279	32.7	19.0	28.4

Manual Integrations
APPROVED

Sohil
2/13/2018 11:26:06 AM



#91
Benzo(g,h,i)perylene
Concen: 7.586 ng
RT: 17.49 min Scan# 2619
Delta R.T. 0.02 min
Lab File: BF102936.D
Acq: 12 Feb 2018 23:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	26.8	21.8	32.8

