

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102008.D
 Acq On : 11 Jan 2018 9:51
 Operator : SJ/JU
 Sample : J1076-09 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-02

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:36:50 AM

Quant Time: Jan 11 12:57:41 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 11 12:53:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	205300	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	851300	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	369800	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	616199	20.00	ng	0.00
75) Chrysene-d12	13.88	240	356476	20.00	ng	0.00
86) Perylene-d12	15.29	264	318037	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	35269	2.43	ng	-0.01
7) Phenol-d6	6.35	99	41041	2.37	ng	-0.02
23) Nitrobenzene-d5	7.28	82	23841	1.65	ng	-0.02
41) 2,4,6-Tribromophenol	10.54	330	7379	2.29	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	46860	1.98	ng	-0.01
78) Terphenyl-d14	12.83	244	39121	2.28	ng	0.00
Target Compounds						
10) Phenol	6.36	94	74395	3.795	ng	Qvalue 100
31) Naphthalene	8.03	128	1600944	37.636	ng	100
37) 2-Methylnaphthalene	8.72	142	178713	6.382	ng	97
48) Acenaphthylene	9.62	152	325691	8.097	ng	99
54) Dibenzofuran	9.96	168	171592	5.121	ng	100
57) Fluorene	10.30	166	286368	12.363	ng	99
70) Phenanthrene	11.27	178	1725358	47.934	ng	99
71) Anthracene	11.32	178	609142	16.687	ng	99
72) Carbazole	11.47	167	180812	5.039	ng	98
74) Fluoranthene	12.46	202	1859158	52.499	ng	99
77) Pyrene	12.69	202	1532083	48.622	ng	100
80) Benzo(a)anthracene	13.87	228	668213m	29.380	ng	
82) Chrysene	13.90	228	563714	23.769	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	308542	17.875	ng	100
87) Benzo(b)fluoranthene	14.89	252	558341m	26.925	ng	
88) Benzo(k)fluoranthene	14.92	252	254873m	12.741	ng	
89) Benzo(a)pyrene	15.23	252	454619	24.363	ng	# 94
90) Dibenzo(a,h)anthracene	16.68	278	85454m	5.738	ng	
91) Benzo(a,h,i)perylene	17.08	276	289645	19.309	ng	96

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

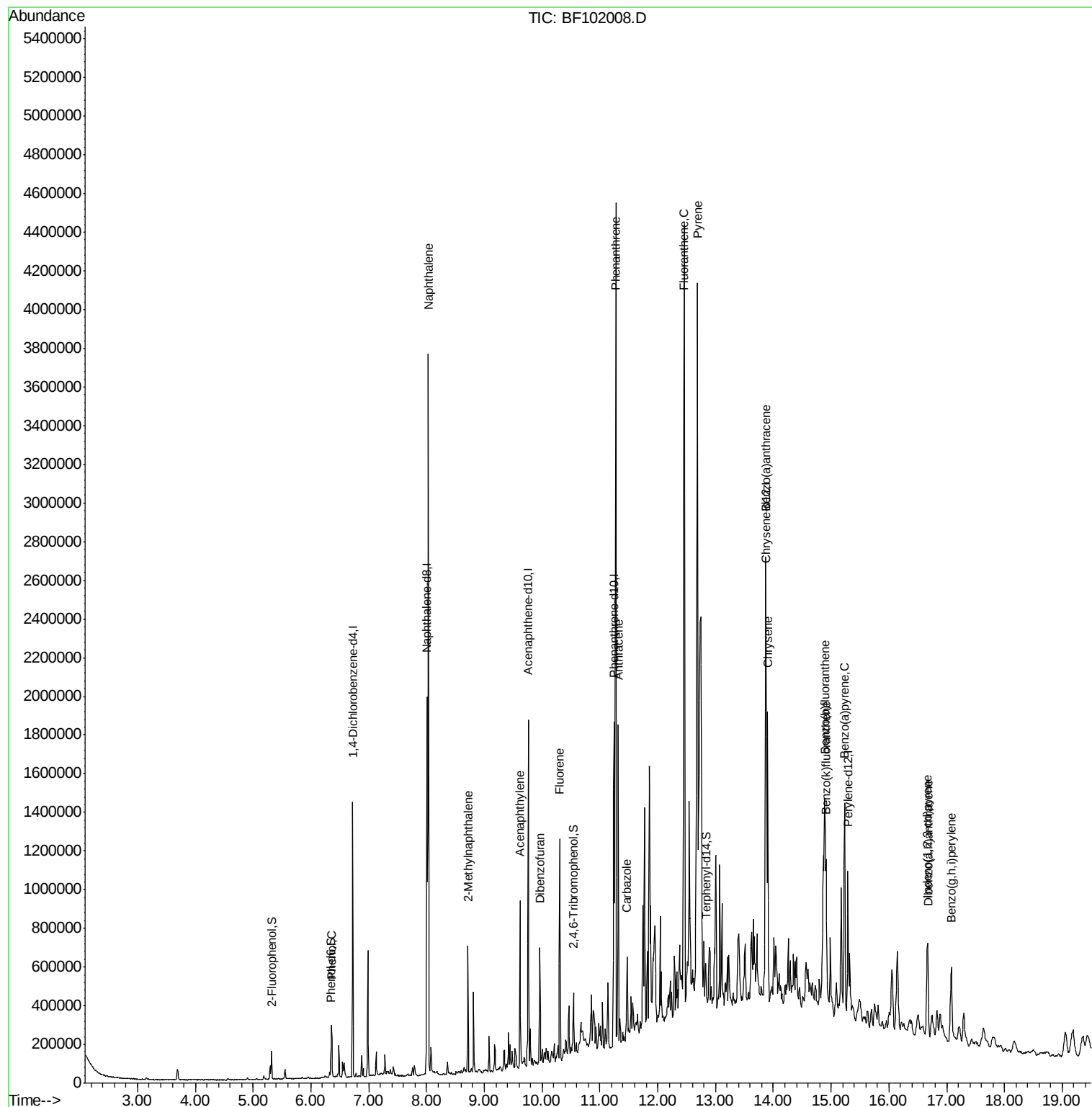
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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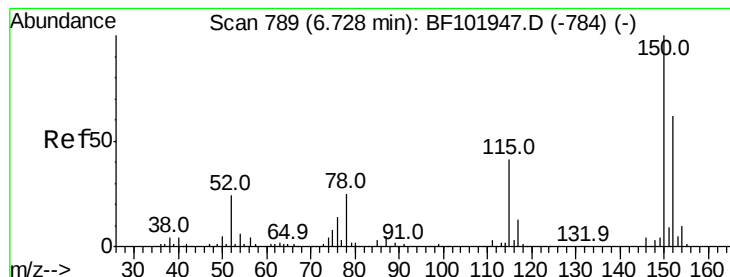
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#1

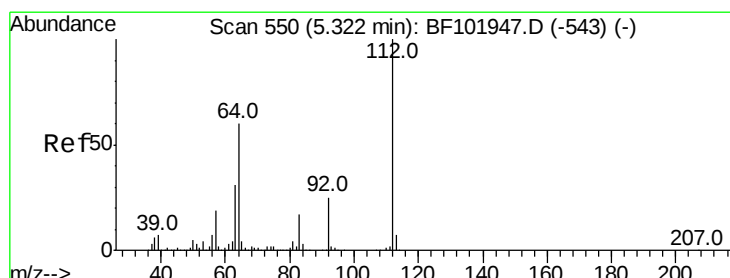
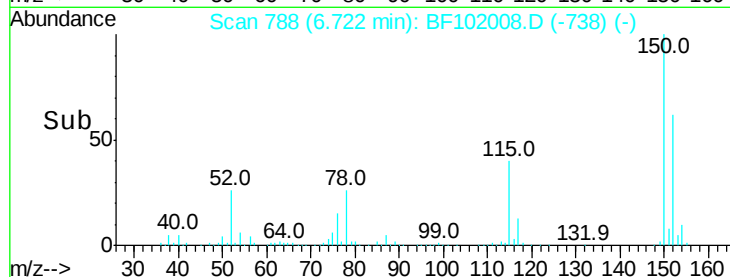
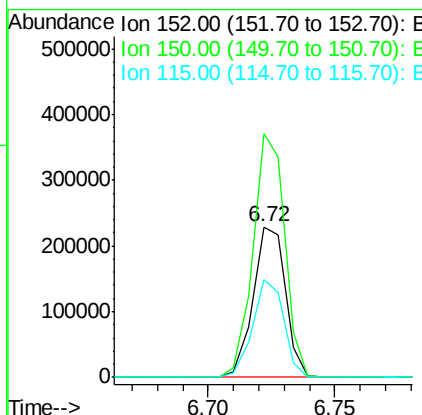
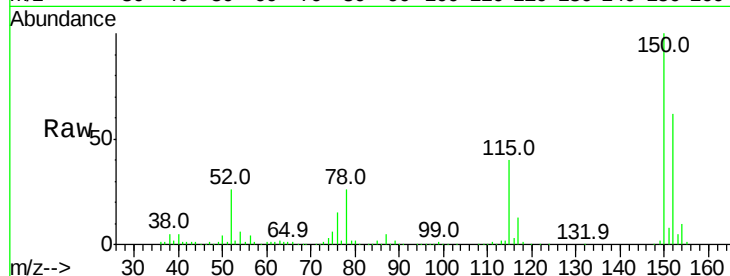
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.9	124.6	186.8
115	64.8	50.1	75.1

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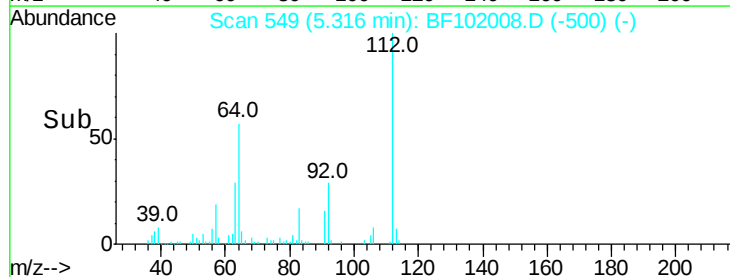
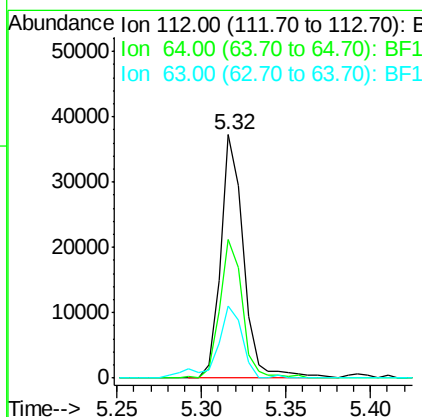
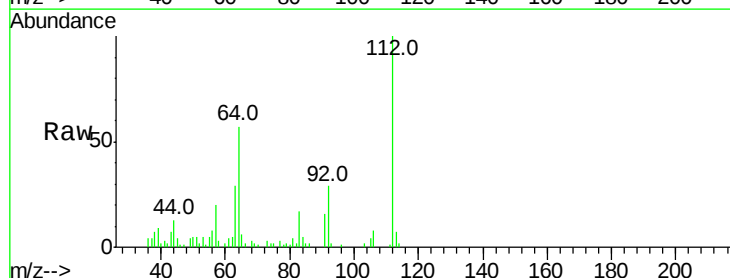
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#5

2-Fluorophenol
Concen: 2.426 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	47.9	71.9
63	29.5	23.7	35.5





#7

Phenol-d6

Concen: 2.366 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Instrument :

BNA_F

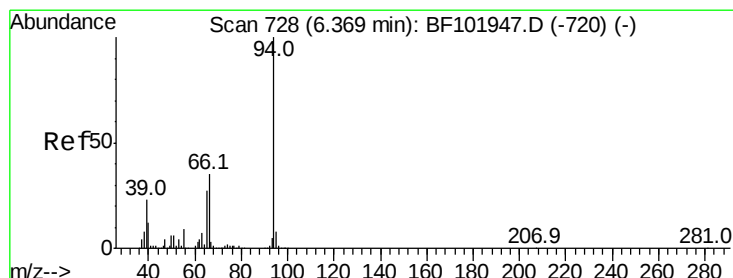
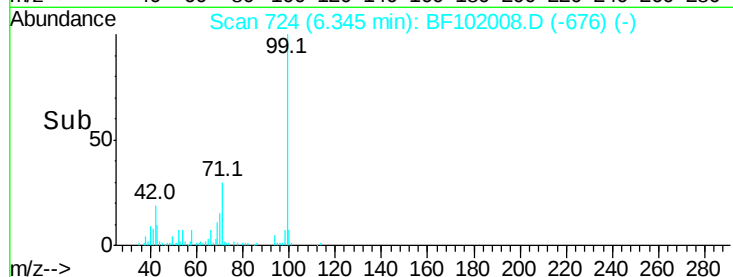
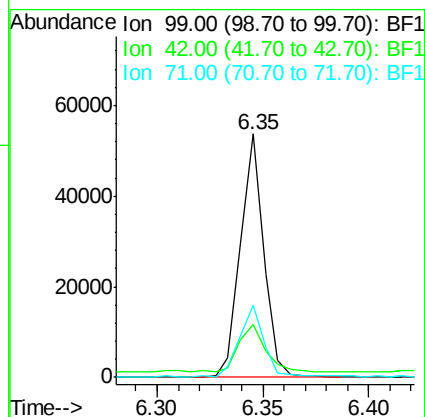
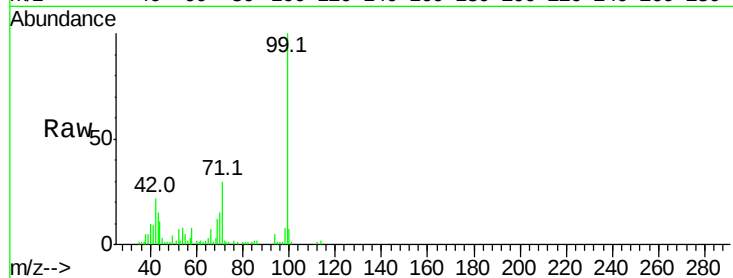
ClientSampleId :

WC-42-02

Tot Ion:	99	Resp:	41041
Ion Ratio	Lower	Upper	
99	100		
42	21.5	14.5	21.7
71	29.7	25.4	38.0

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#10

Phenol

Concen: 3.795 ng

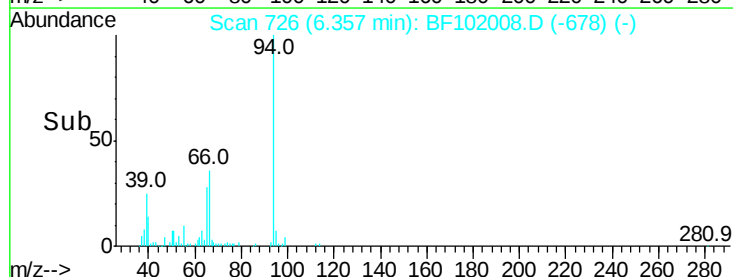
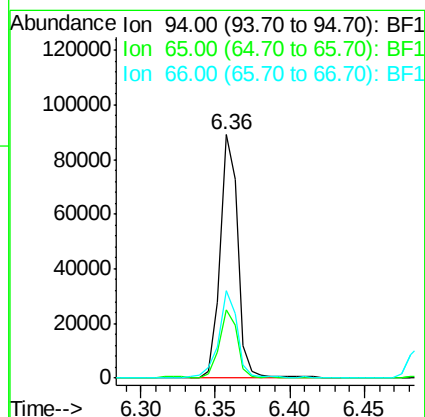
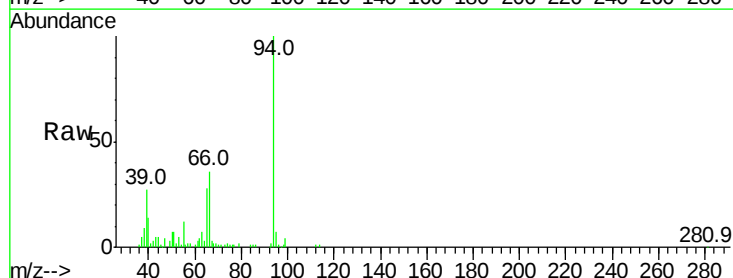
RT: 6.36 min Scan# 726

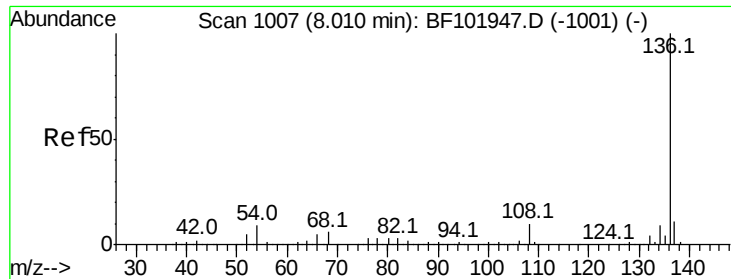
Delta R.T. -0.02 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Tgt Ion:	94	Resp:	74395
Ion Ratio	Lower	Upper	
94	100		
65	28.1	7.9	47.9
66	36.2	16.2	56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Instrument :

BNA_F

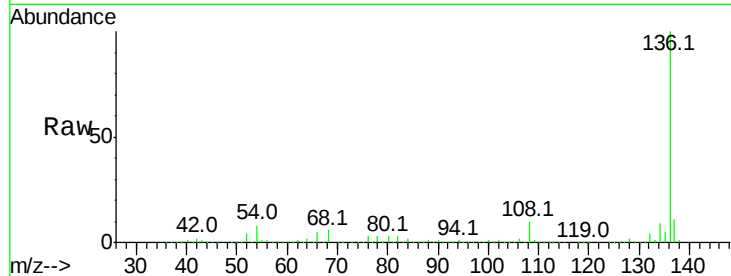
ClientSampled :

WC-42-02

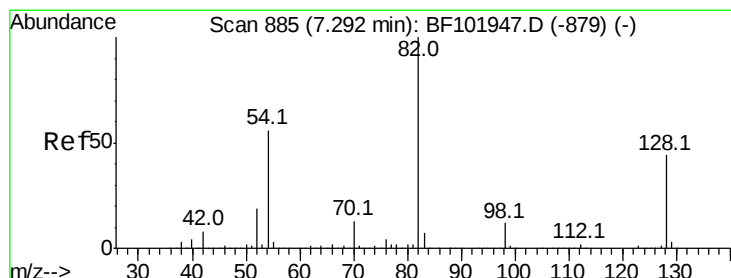
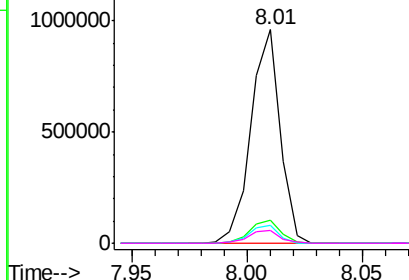
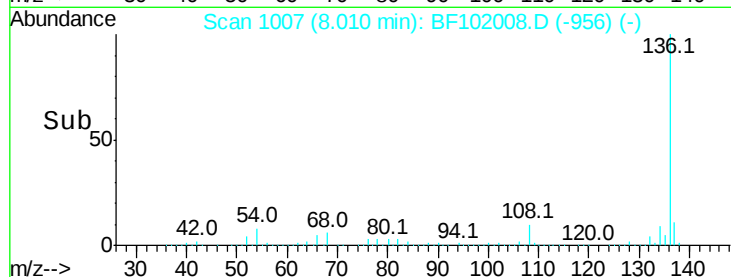
Tot Ion	Ratio	Resp	Lower	Upper
136	100	851300		
137	11.0	8.9	13.3	
54	8.2	6.6	9.8	
68	6.2	5.0	7.4	

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 1.646 ng

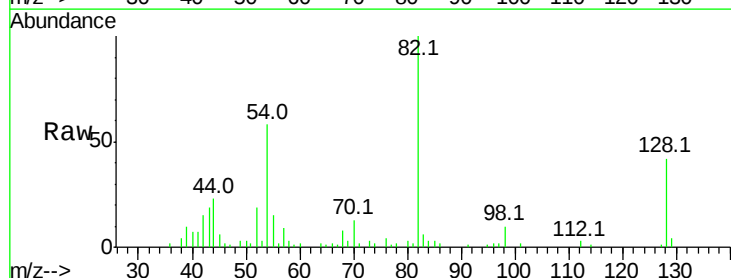
RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

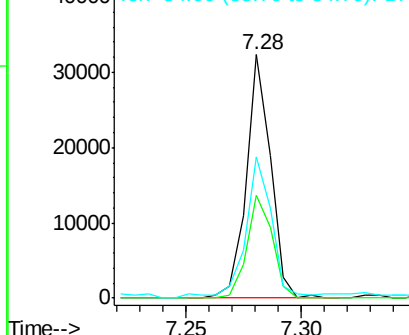
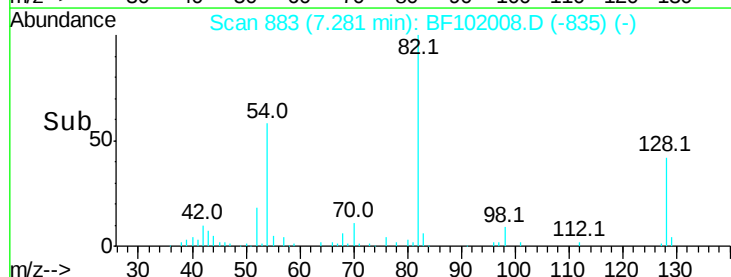
Lab File: BF102008.D

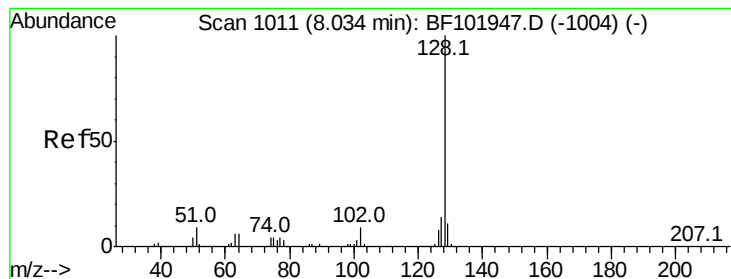
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	23841		
128	42.5	36.1	54.1	
54	58.1	41.4	62.2	



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 37.636 ng

RT: 8.03 min Scan# 1011

Delta R.T. -0.00 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Instrument :

BNA_F

ClientSampled :

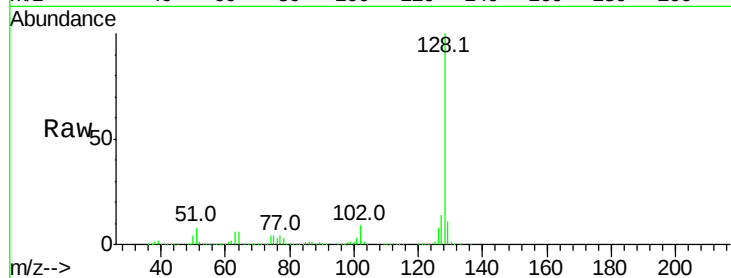
WC-42-02

Tot Ion:128 Resp: 1600944

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.6	10.9	16.3

Manual Integrations
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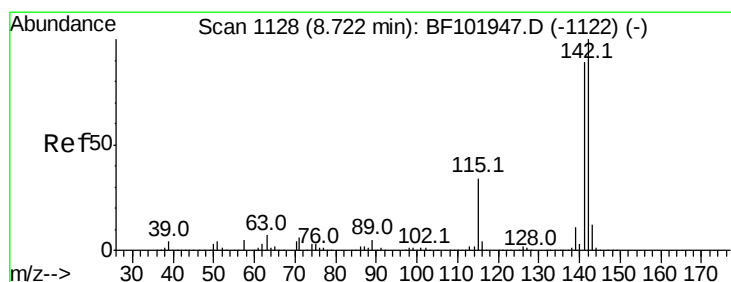
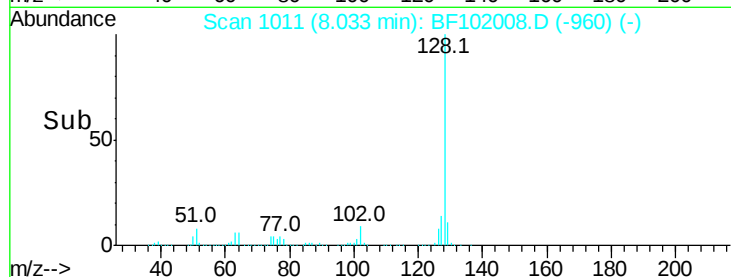
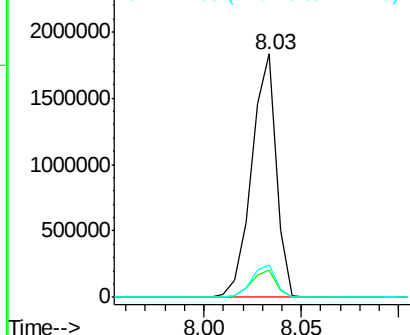
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 6.382 ng

RT: 8.72 min Scan# 1128

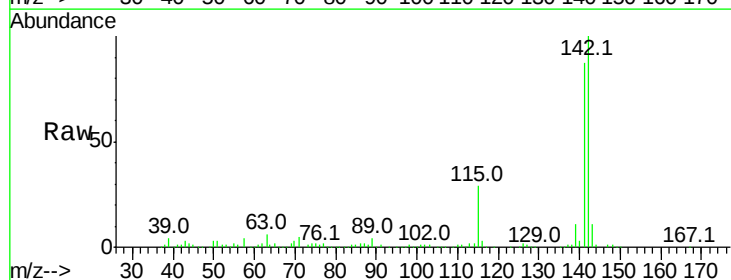
Delta R.T. -0.00 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Tgt Ion:142 Resp: 178713

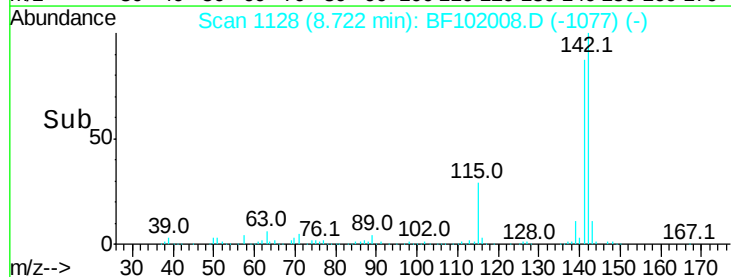
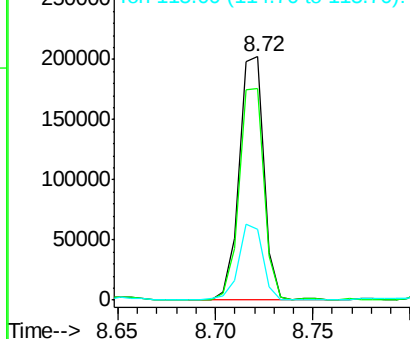
Ion	Ratio	Lower	Upper
142	100		
141	86.8	70.8	106.2
115	29.3	26.1	39.1

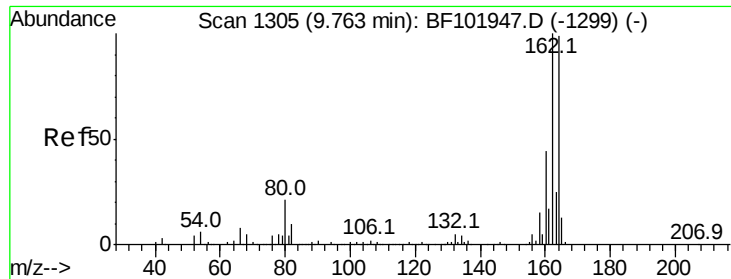


Abundance Ion 142.00 (141.70 to 142.70): E

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: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Instrument :

BNA_F

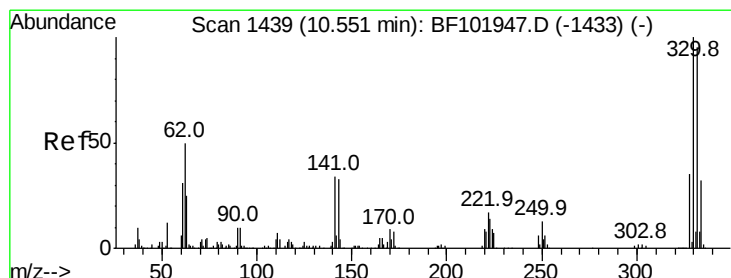
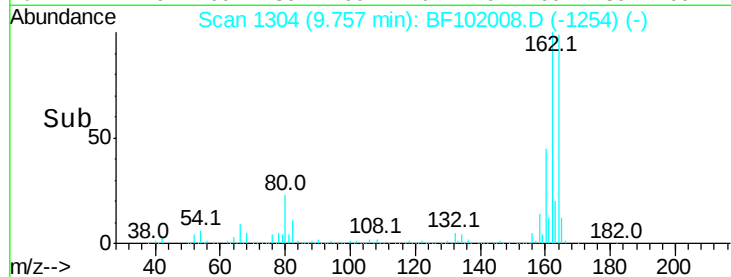
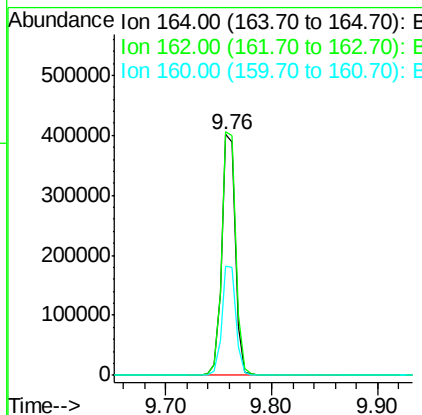
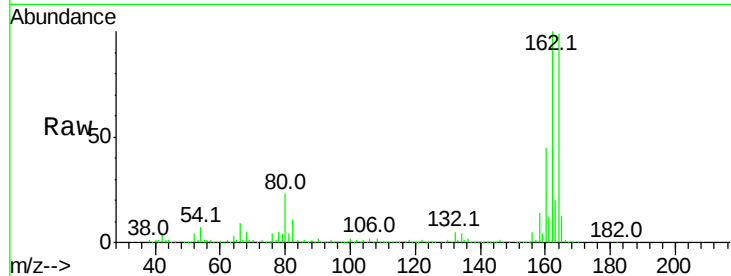
ClientSampleId :

WC-42-02

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.2	86.1	129.1
160	45.3	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 2.287 ng

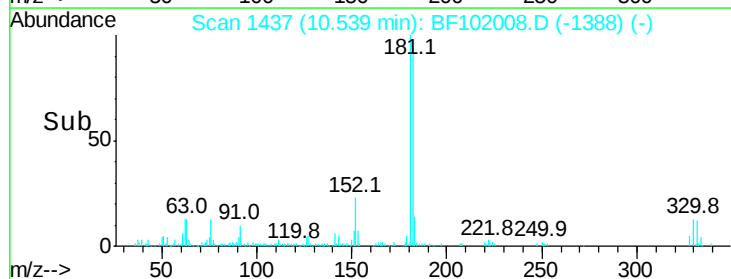
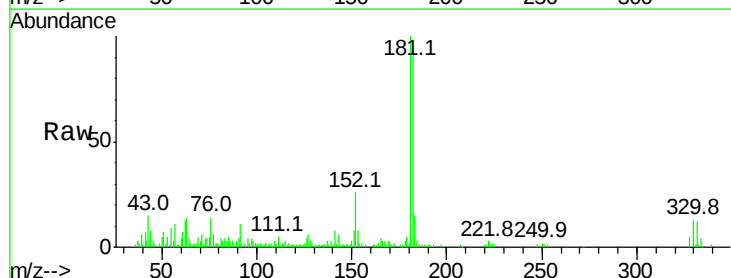
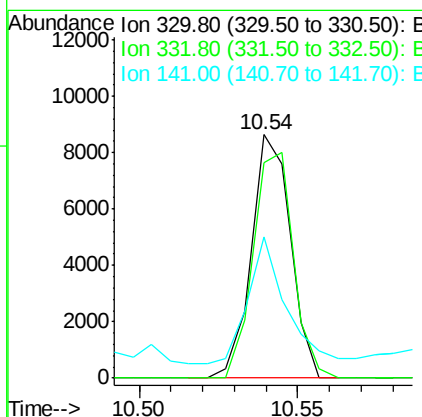
RT: 10.54 min Scan# 1437

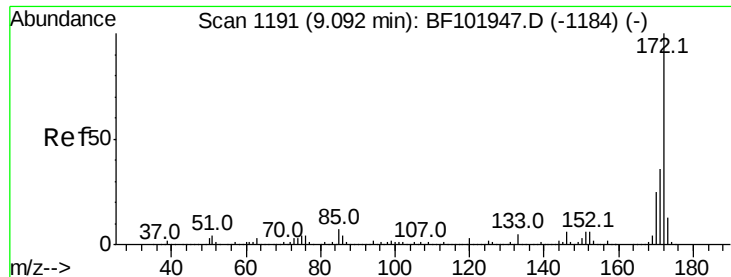
Delta R.T. -0.01 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.0	115.6
141	52.5	29.9	44.9#





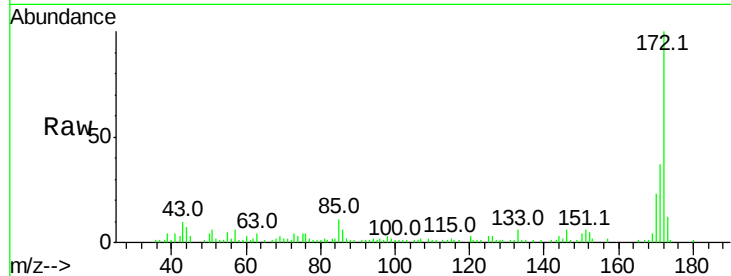
#44
2-Fluorobiphenyl
Concen: 1.980 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

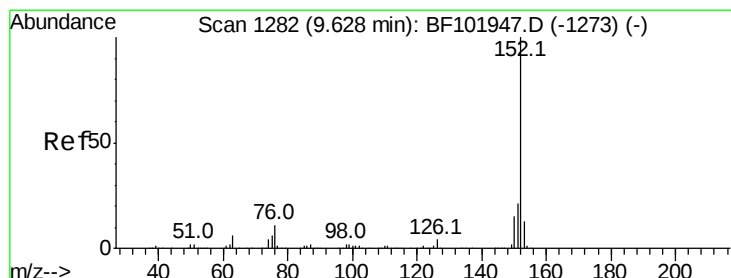
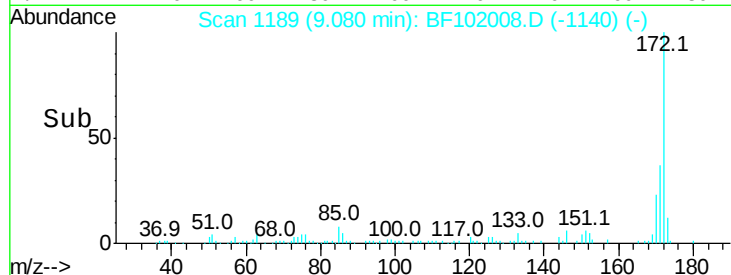
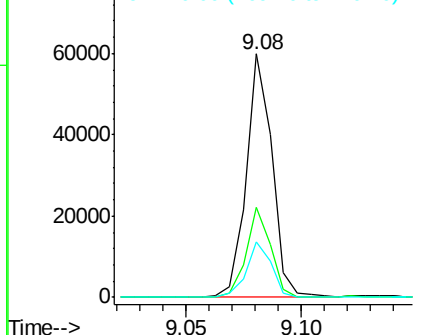
Tot Ion	Ratio	Resp	Lower	Upper
172	100	46860		
171	36.9		29.7	44.5
170	22.6		19.6	29.4

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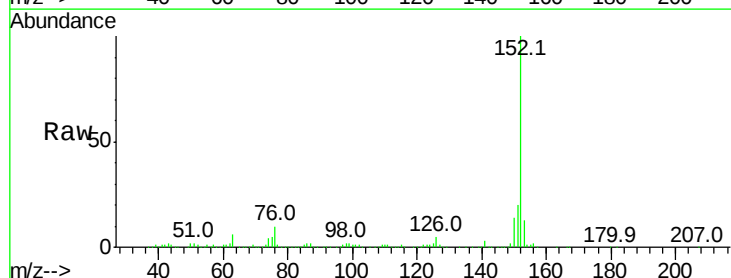


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

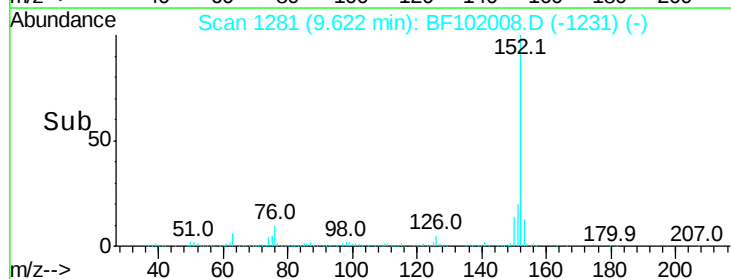
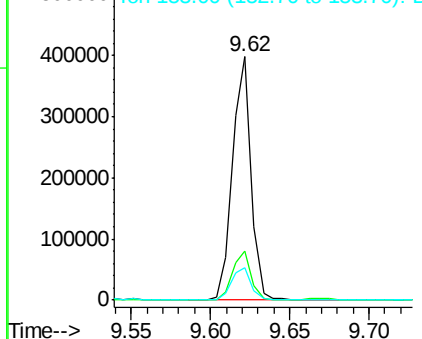


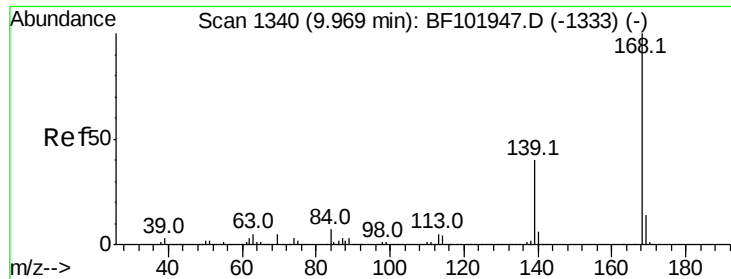
#48
Acenaphthylene
Concen: 8.097 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	325691		
151	20.1		16.3	24.5
153	13.1		10.7	16.1



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





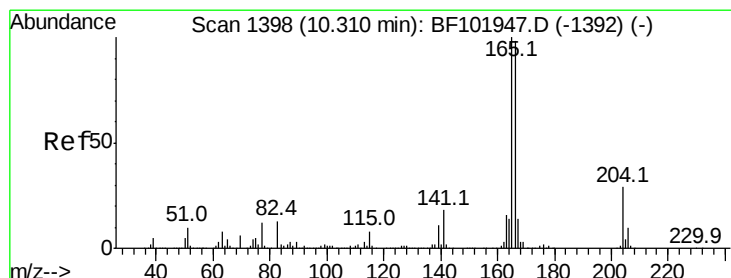
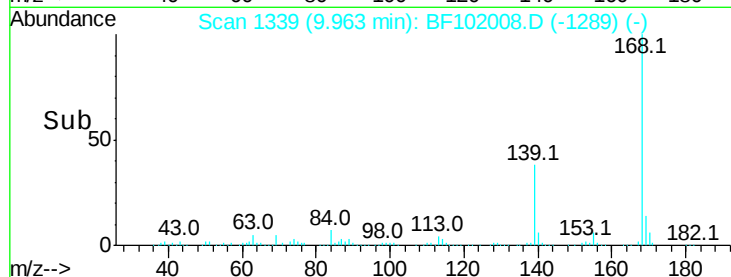
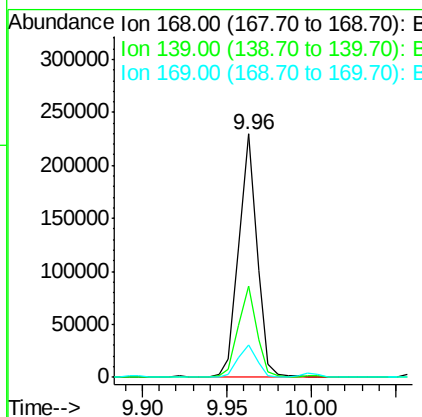
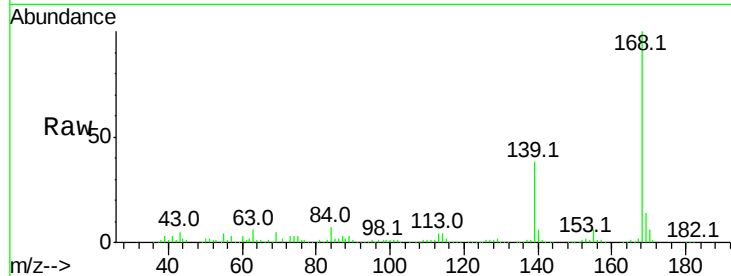
#54
Dibenzofuran
Concen: 5.121 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Resp	Lower	Upper
168	100	171592		
139	37.7		30.1	45.1
169	13.6		10.9	16.3

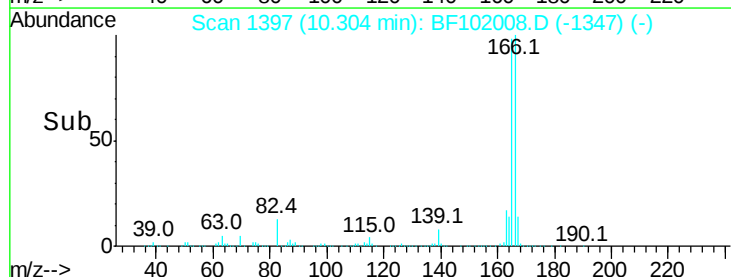
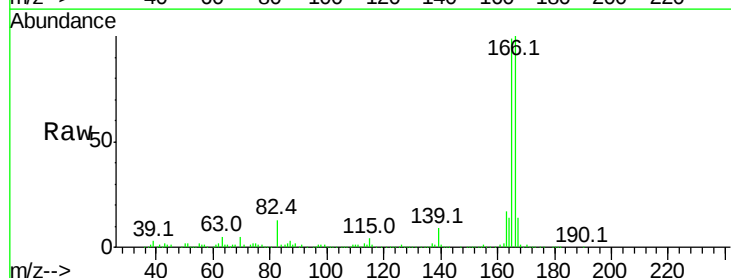
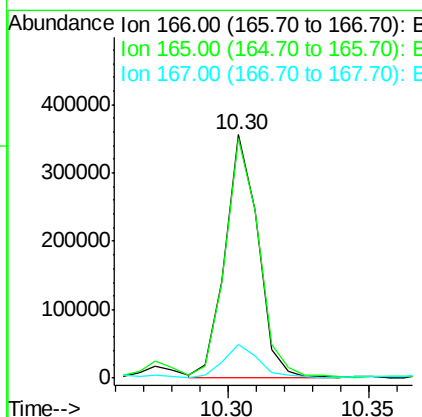
Manual Integrations
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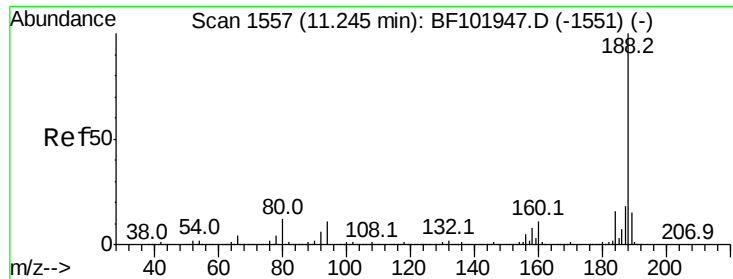
Sohil
1/12/2018 10:36:50 AM



#57
Fluorene
Concen: 12.363 ng
RT: 10.30 min Scan# 1397
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	286368		
165	98.6		79.8	119.8
167	13.9		10.6	16.0





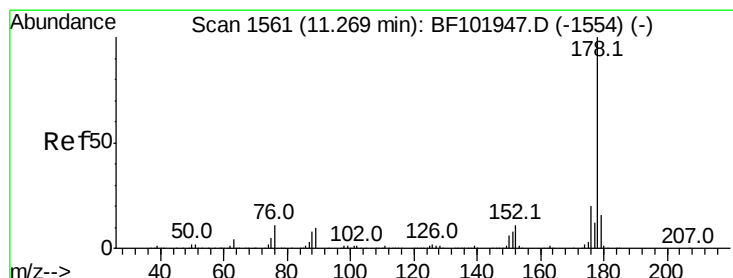
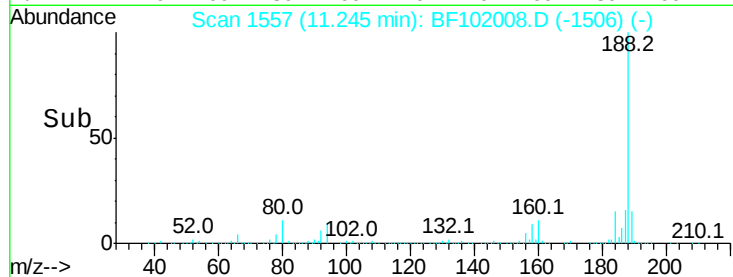
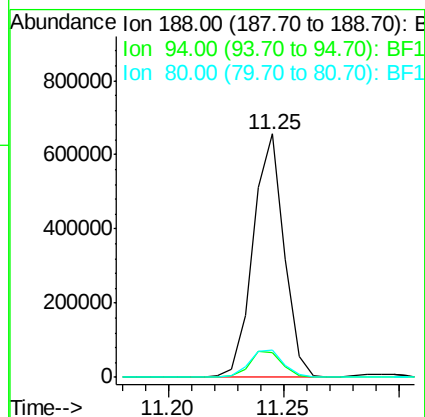
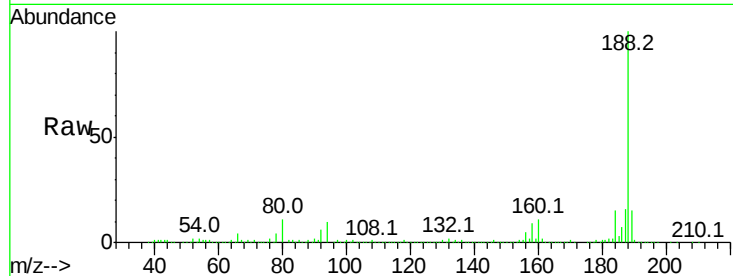
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.25 min Scan# 1557
Delta R.T. -0.00 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.4	8.5	12.7
80	11.2	9.2	13.8

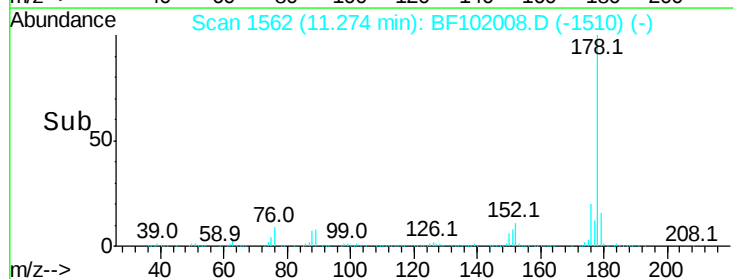
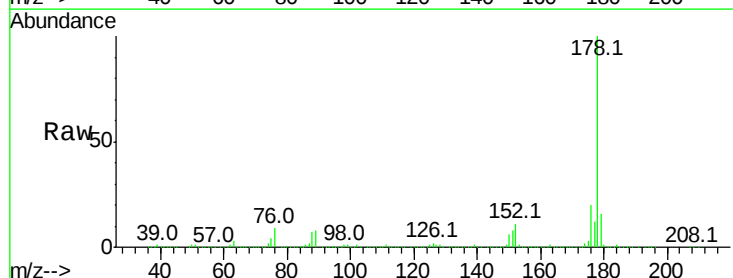
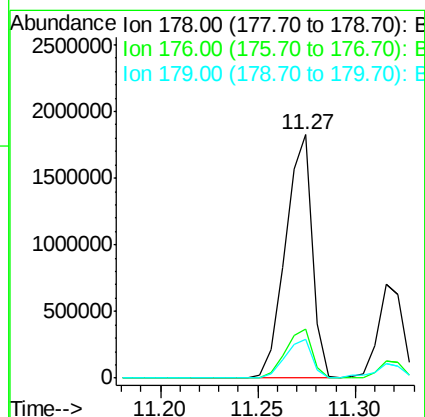
Manual Integrations
APPROVED

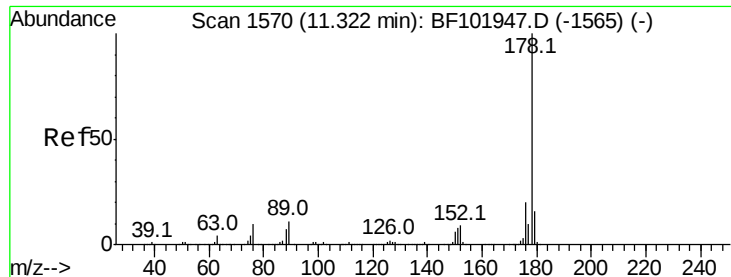
Sohil
1/12/2018 10:36:50 AM



#70
Phenanthrene
Concen: 47.934 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

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





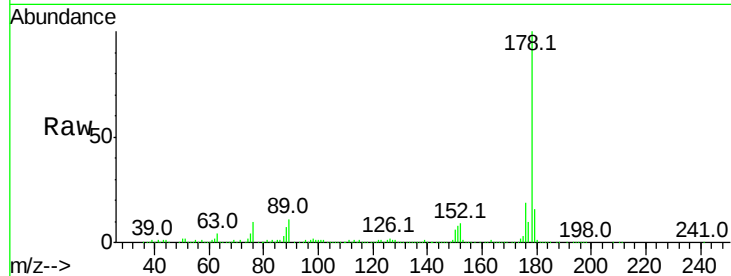
#71
 Anthracene
 Concen: 16.687 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: BF102008.D
 Acq: 11 Jan 2018 9:51

Instrument :
 BNA_F
 ClientSampled :
 WC-42-02

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	16.1	12.6	19.0

Manual Integrations
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Sohil
 1/12/2018 10:36:50 AM

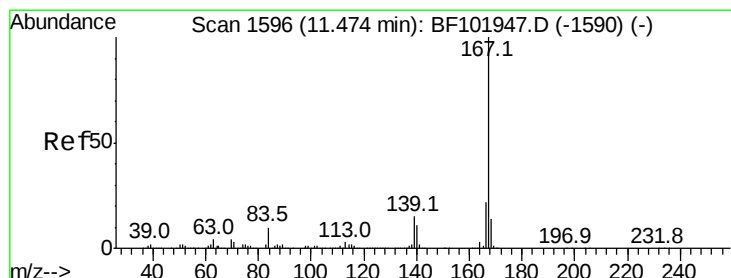
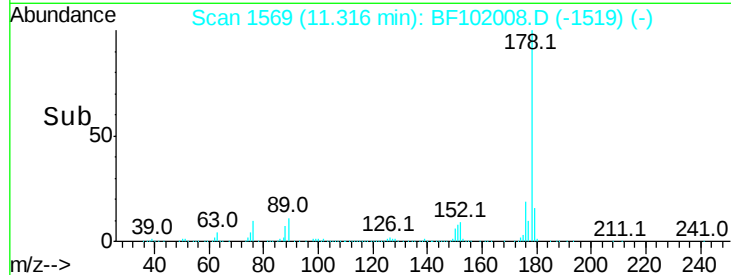
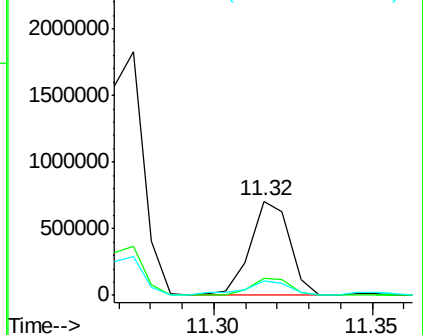


Abundance

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: 5.039 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: BF102008.D
 Acq: 11 Jan 2018 9:51

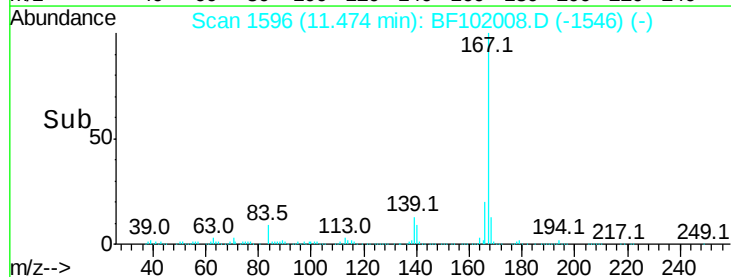
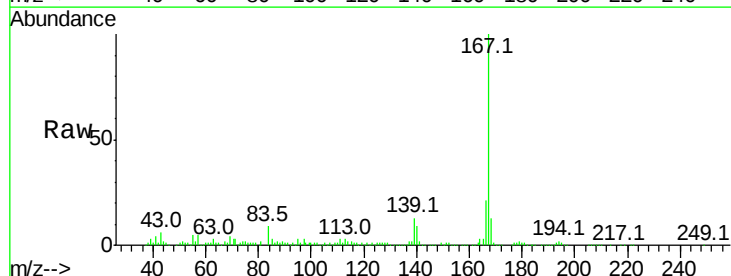
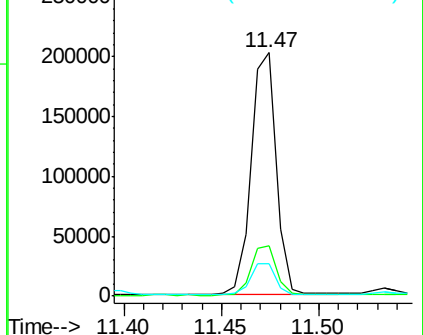
Tgt Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.6	26.4
139	13.4	10.9	16.3

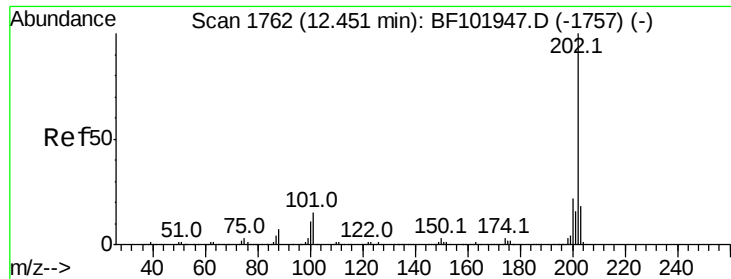
Abundance

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





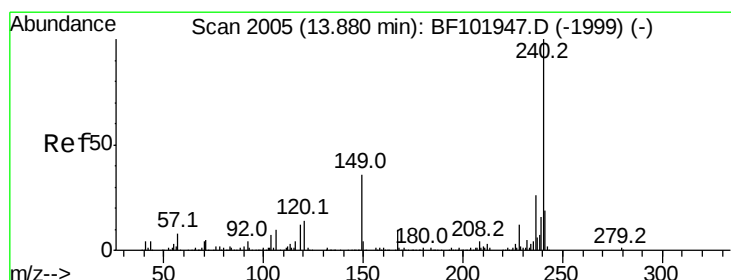
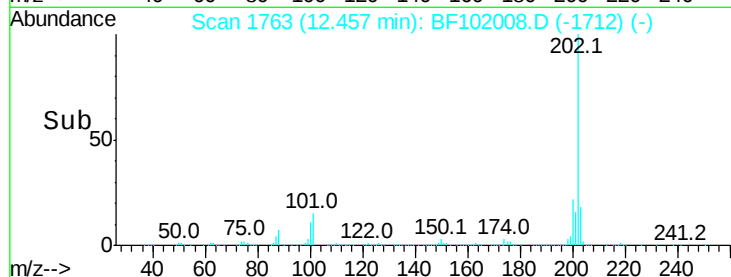
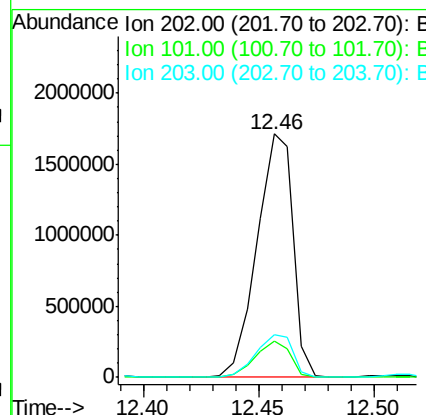
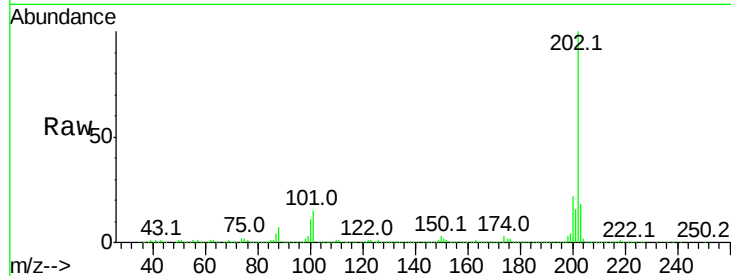
#74
 Fluoranthene
 Concen: 52.499 ng
 RT: 12.46 min Scan# 1763
 Delta R.T. -0.00 min
 Lab File: BF102008.D
 Acq: 11 Jan 2018 9:51

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-02

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.7	0.0	34.1
203	17.7	0.0	38.1

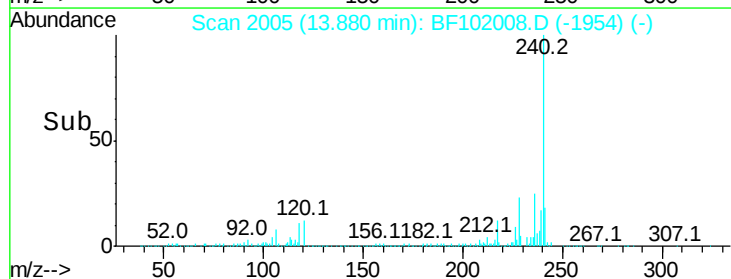
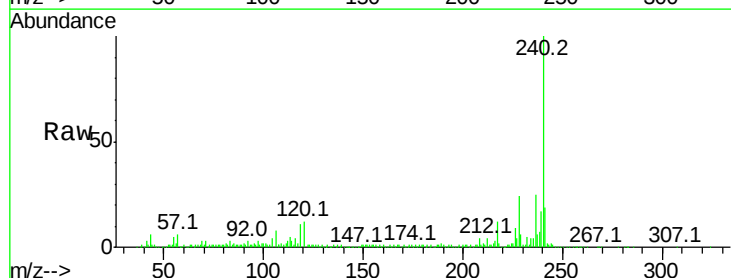
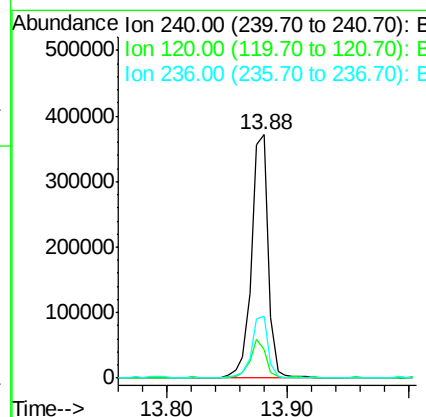
Manual Integrations
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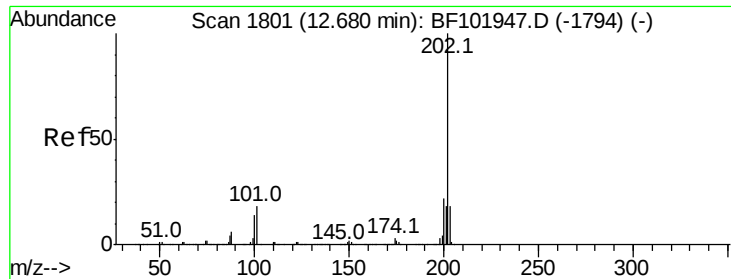
Sohil
 1/12/2018 10:36:50 AM



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.88 min Scan# 2005
 Delta R.T. -0.00 min
 Lab File: BF102008.D
 Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.5	14.3
236	25.5	20.7	31.1





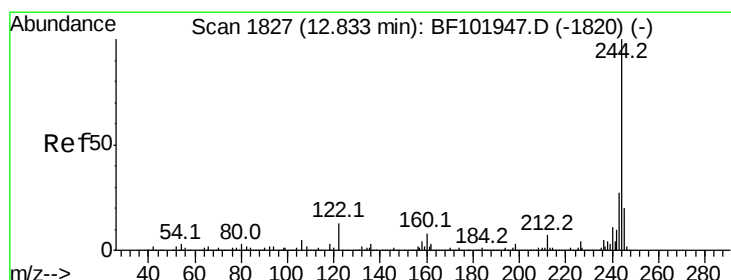
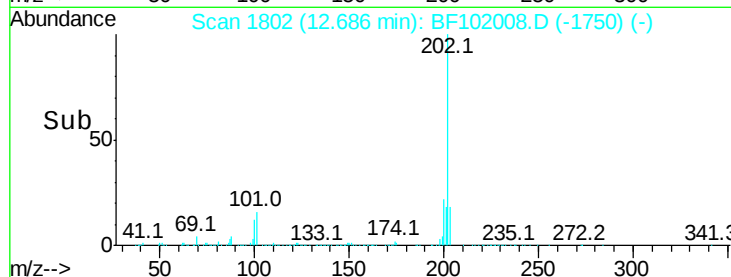
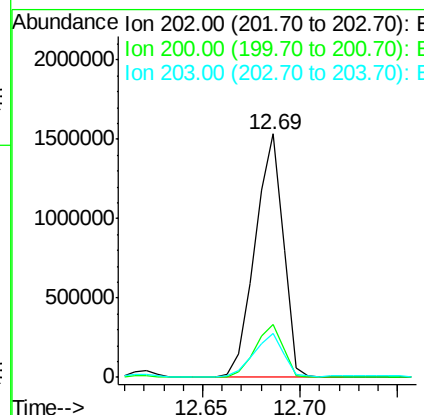
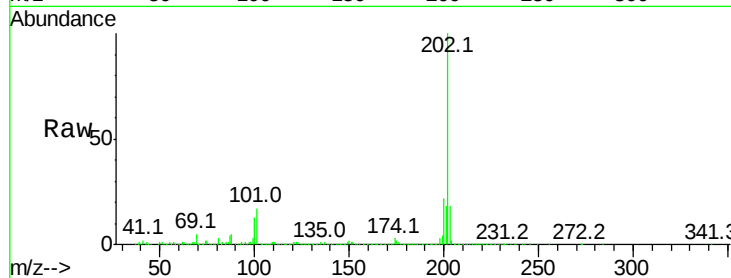
#77
Pvrene
Concen: 48.622 ng
RT: 12.69 min Scan# 1802
Delta R.T. 0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.2
203	18.0	14.3	21.5

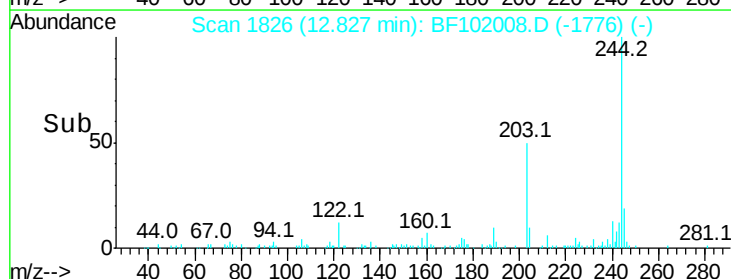
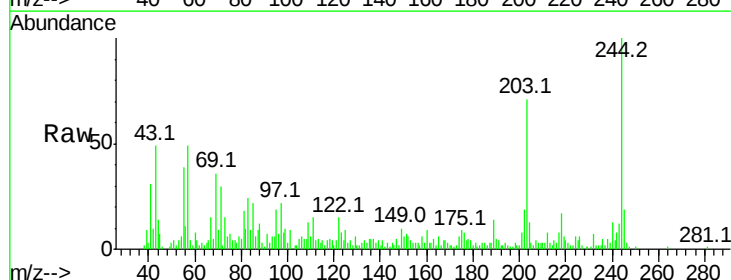
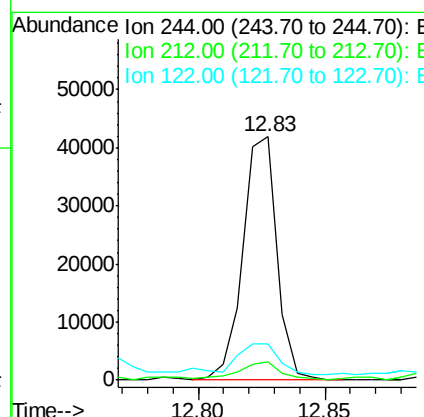
Manual Integrations
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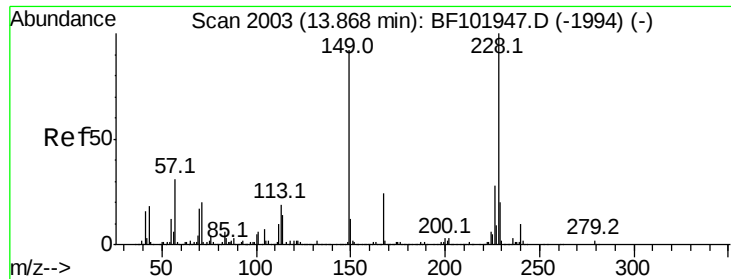
Sohil
1/12/2018 10:36:50 AM



#78
Terphenyl-d14
Concen: 2.279 ng
RT: 12.83 min Scan# 1826
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.4	8.0
122	15.1	11.0	16.4





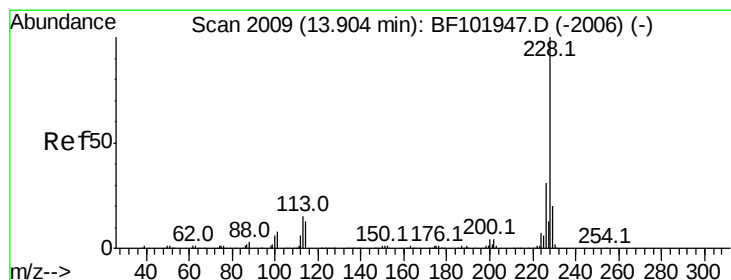
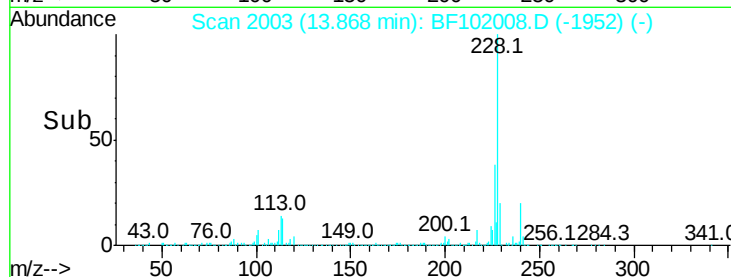
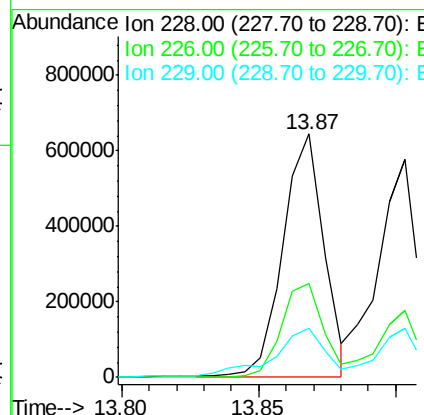
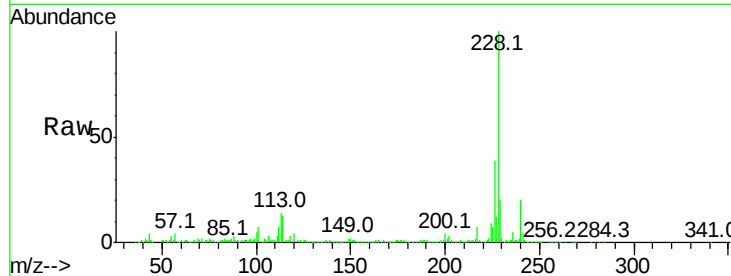
#80
Benzo(a)anthracene
Concen: 29.380 ng m
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Lower	Upper
228	100		
226	38.7	22.6	33.8#
229	20.2	15.8	23.6

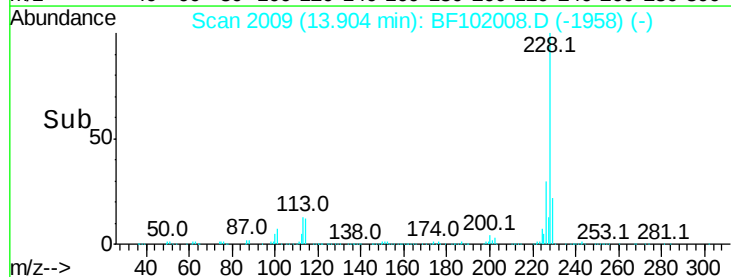
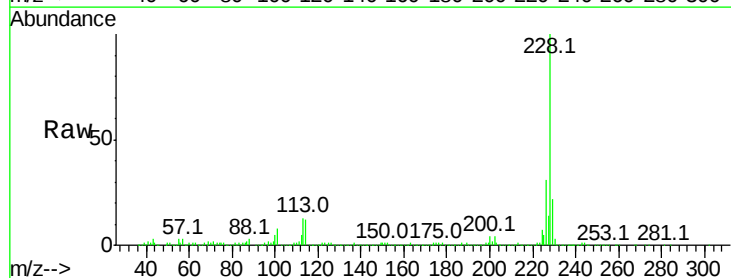
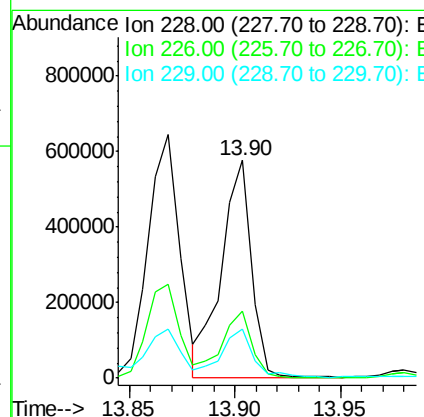
Manual Integrations
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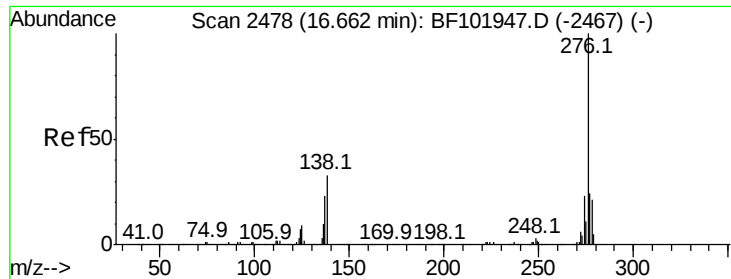
Sohil
1/12/2018 10:36:50 AM



#82
Chrysene
Concen: 23.769 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.00 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	22.5	16.2	24.4





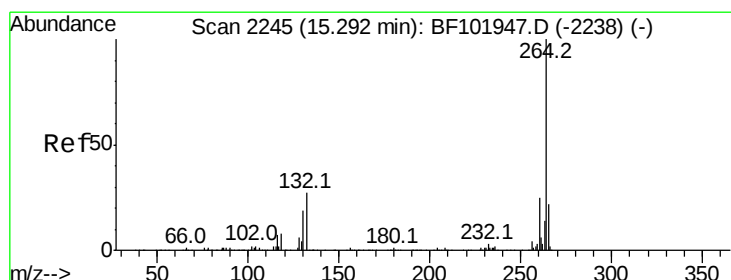
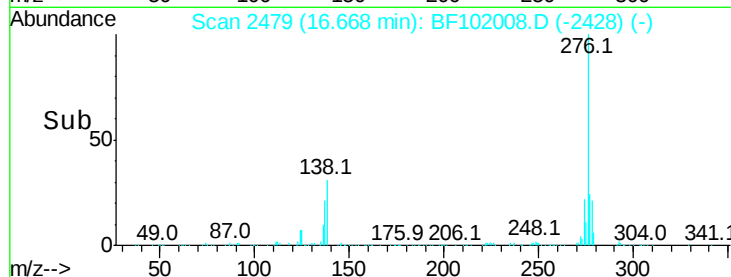
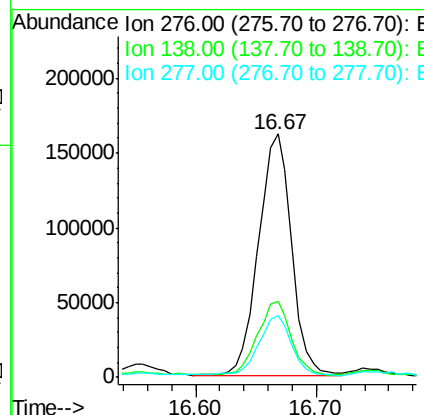
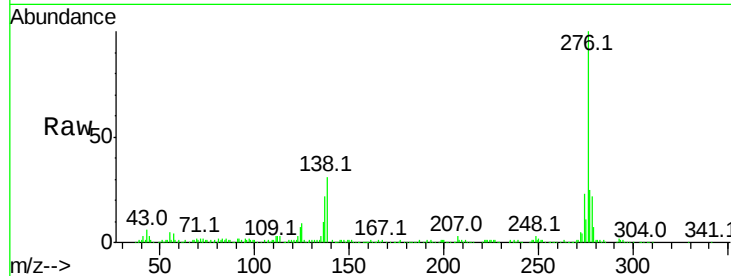
#85
Indeno(1,2,3-cd)pyrene
Concen: 17.875 ng
RT: 16.67 min Scan# 2479
Delta R.T. -0.00 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.9	25.0	37.6
277	25.1	20.1	30.1

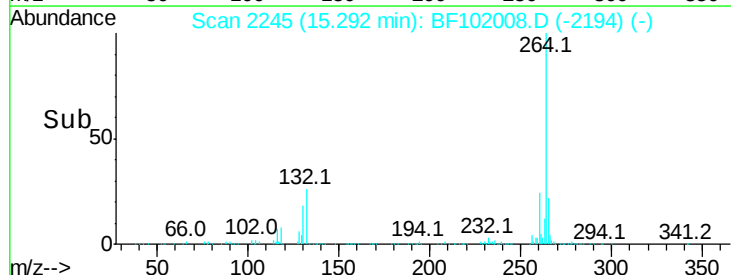
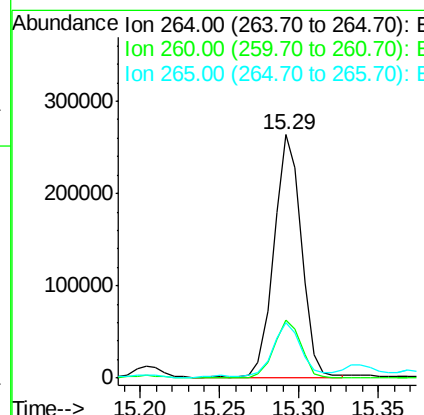
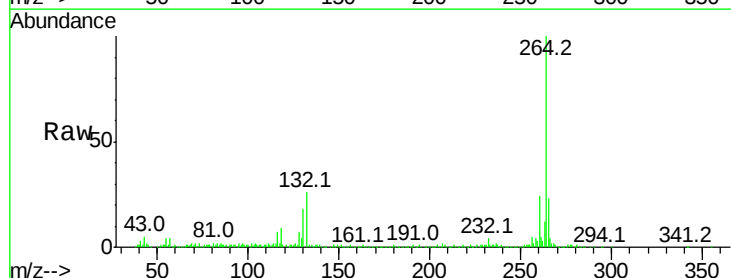
Manual Integrations
APPROVED

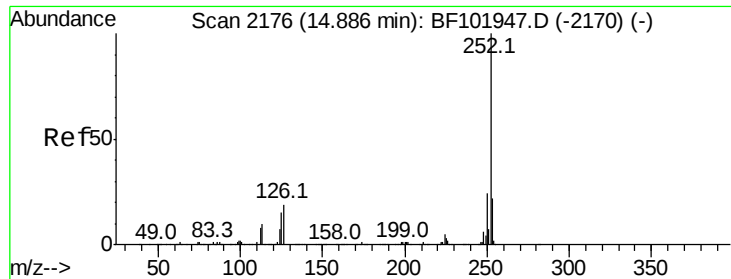
Sohil
1/12/2018 10:36:50 AM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.6	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 26.925 ng m

RT: 14.89 min Scan# 2177

Delta R.T. 0.01 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Instrument :

BNA_F

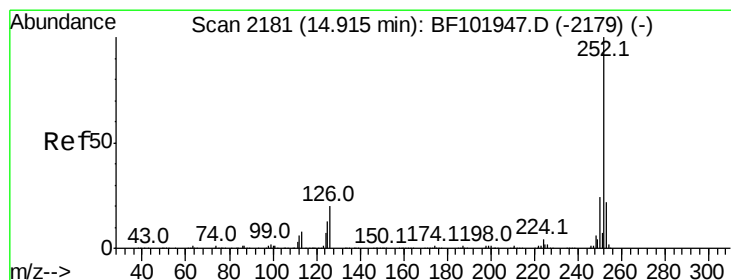
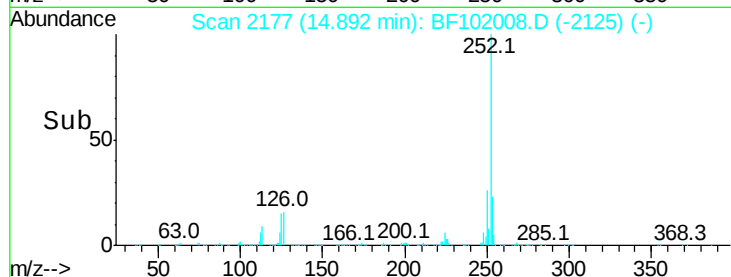
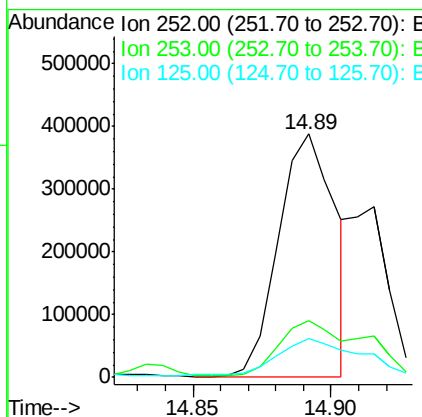
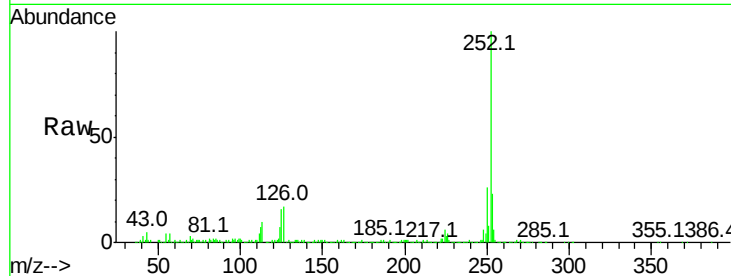
ClientSampleId :

WC-42-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	15.8	9.0	13.6

Manual Integrations
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1/12/2018 10:36:50 AM



#88

Benzo(k)fluoranthene

Concen: 12.741 ng m

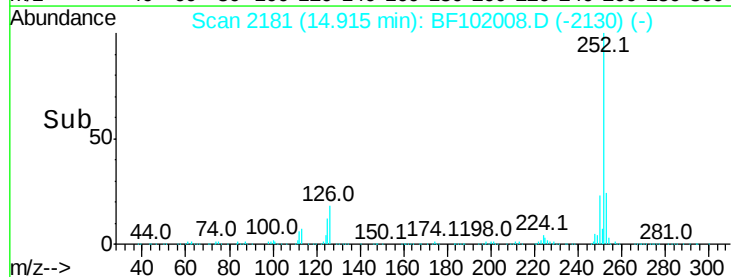
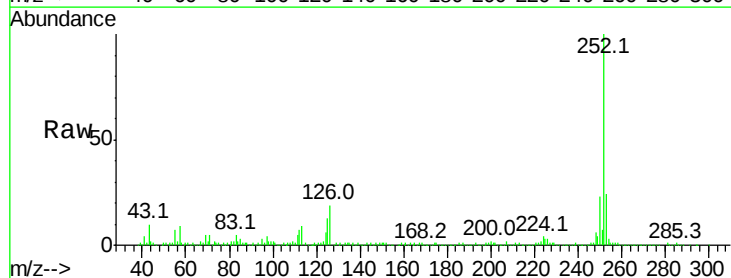
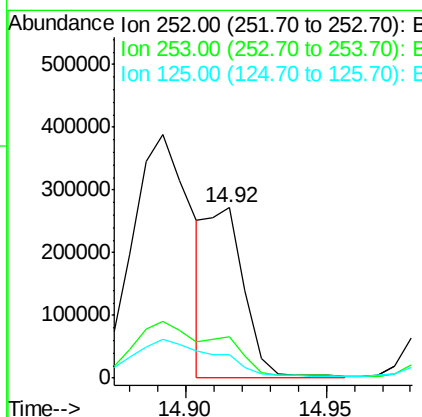
RT: 14.92 min Scan# 2181

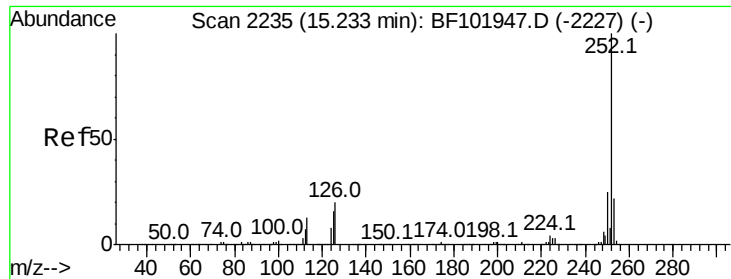
Delta R.T. -0.00 min

Lab File: BF102008.D

Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.9	26.9
125	13.4	10.2	15.2





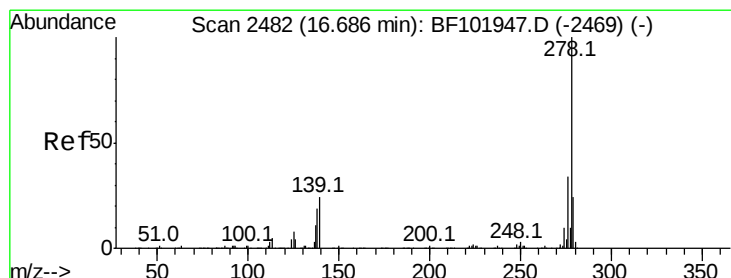
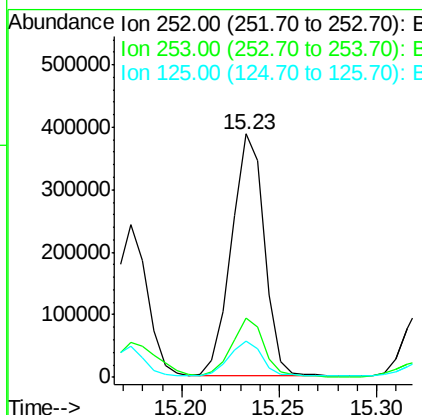
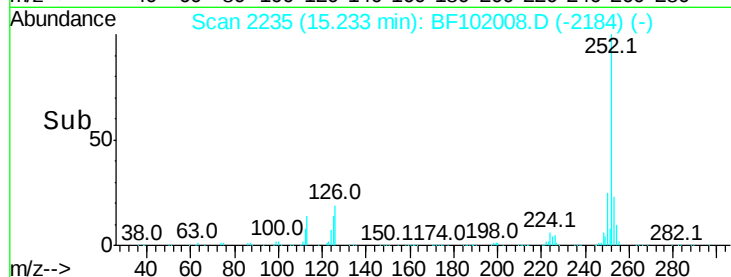
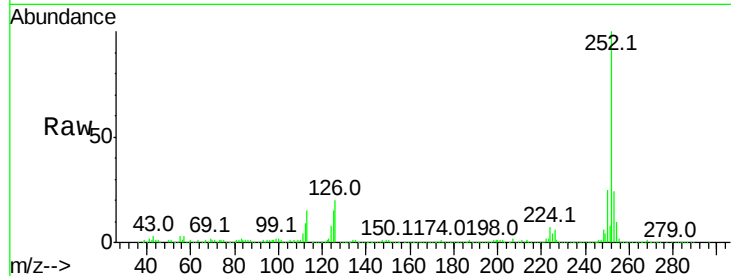
#89
Benzo(a)pyrene
Concen: 24.363 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.00 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Instrument :
BNA_F
ClientSampleId :
WC-42-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	14.9	9.8	14.6

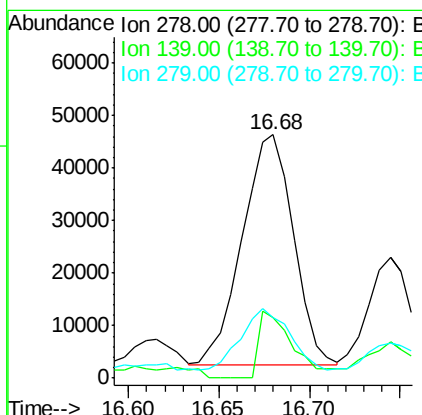
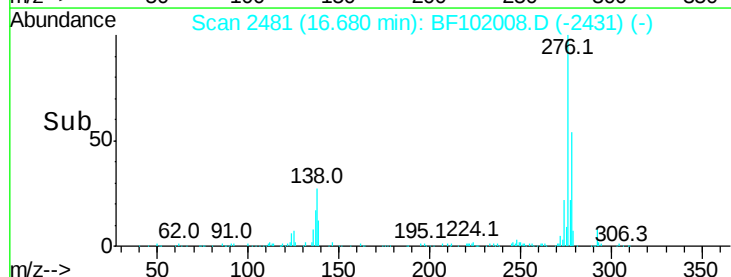
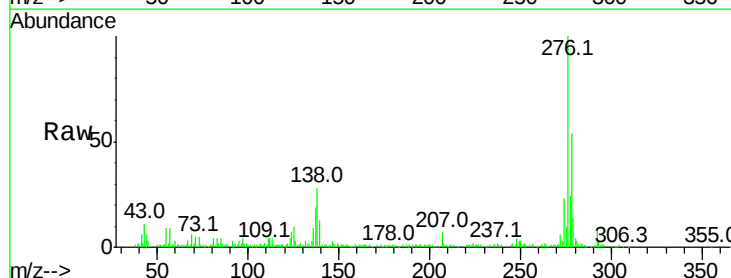
Manual Integrations
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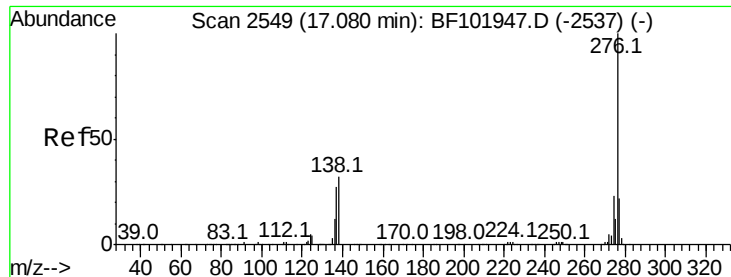
Sohil
1/12/2018 10:36:50 AM



#90
Dibenzo(a,h)anthracene
Concen: 5.738 ng m
RT: 16.68 min Scan# 2481
Delta R.T. -0.01 min
Lab File: BF102008.D
Acq: 11 Jan 2018 9:51

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.8	15.9	23.9
279	25.1	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 19.309 ng
 RT: 17.08 min Scan# 2549
 Delta R.T. -0.01 min
 Lab File: BF102008.D
 Acq: 11 Jan 2018 9:51

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-02

Tot Ion:	276	Resp:	289645
Ion Ratio	Lower	Upper	
276	100		
277	22.8	17.9	26.9
138	30.9	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:36:50 AM

