

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102016.D
 Acq On : 11 Jan 2018 13:37
 Operator : SJ/JU
 Sample : J1076-19DL 100X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-01DL

Manual Integrations
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Sohil
 1/12/2018 10:37:11 AM

Quant Time: Jan 11 14:25:34 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	6.73	152	226995	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	936251	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	409552	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	682179	20.00	ng	0.00
75) Chrysene-d12	13.87	240	358586	20.00	ng	0.00
86) Perylene-d12	15.29	264	372363	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	2779	0.17	ng	-0.01
7) Phenol-d6	6.35	99	4044	0.21	ng	-0.02
23) Nitrobenzene-d5	7.28	82	2367	0.15	ng	-0.02
41) 2,4,6-Tribromophenol	10.55	330	449	0.13	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	4898	0.19	ng	-0.01
78) Terphenyl-d14	12.82	244	4401	0.25	ng	-0.01
Target Compounds						
10) Phenol	6.36	94	129342	5.967	ng	Qvalue 97
20) 3+4-Methylphenols	7.13	107	82914	4.748	ng	90
31) Naphthalene	8.03	128	2976173	63.617	ng	98
37) 2-Methylnaphthalene	8.72	142	491694	15.965	ng	99
45) 1,1'-Biphenyl	9.18	154	128279	3.544	ng	99
48) Acenaphthylene	9.62	152	640984	14.388	ng	99
51) Acenaphthene	9.79	154	121515	4.494	ng	99
54) Dibenzofuran	9.96	168	518314	13.967	ng	98
57) Fluorene	10.30	166	602411	23.482	ng	100
70) Phenanthrene	11.27	178	1766242	44.324	ng	99
71) Anthracene	11.32	178	718403	17.776	ng	99
72) Carbazole	11.47	167	261829	6.591	ng	99
74) Fluoranthene	12.45	202	1166746	29.760	ng	99
77) Pyrene	12.68	202	884917	27.918	ng	99
80) Benzo(a)anthracene	13.86	228	352083m	15.389	ng	
82) Chrysene	13.90	228	257612	10.798	ng	96
85) Indeno(1,2,3-cd)pyrene	16.66	276	136555	7.865	ng	98
87) Benzo(b)fluoranthene	14.89	252	306408m	12.620	ng	
88) Benzo(k)fluoranthene	14.91	252	91664m	3.914	ng	
89) Benzo(a)pyrene	15.23	252	236452	10.823	ng	# 95
90) Dibenzo(a,h)anthracene	16.67	278	40620	2.330	ng	95
91) Benzo(g,h,i)perylene	17.07	276	120447	6.858	ng	95

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

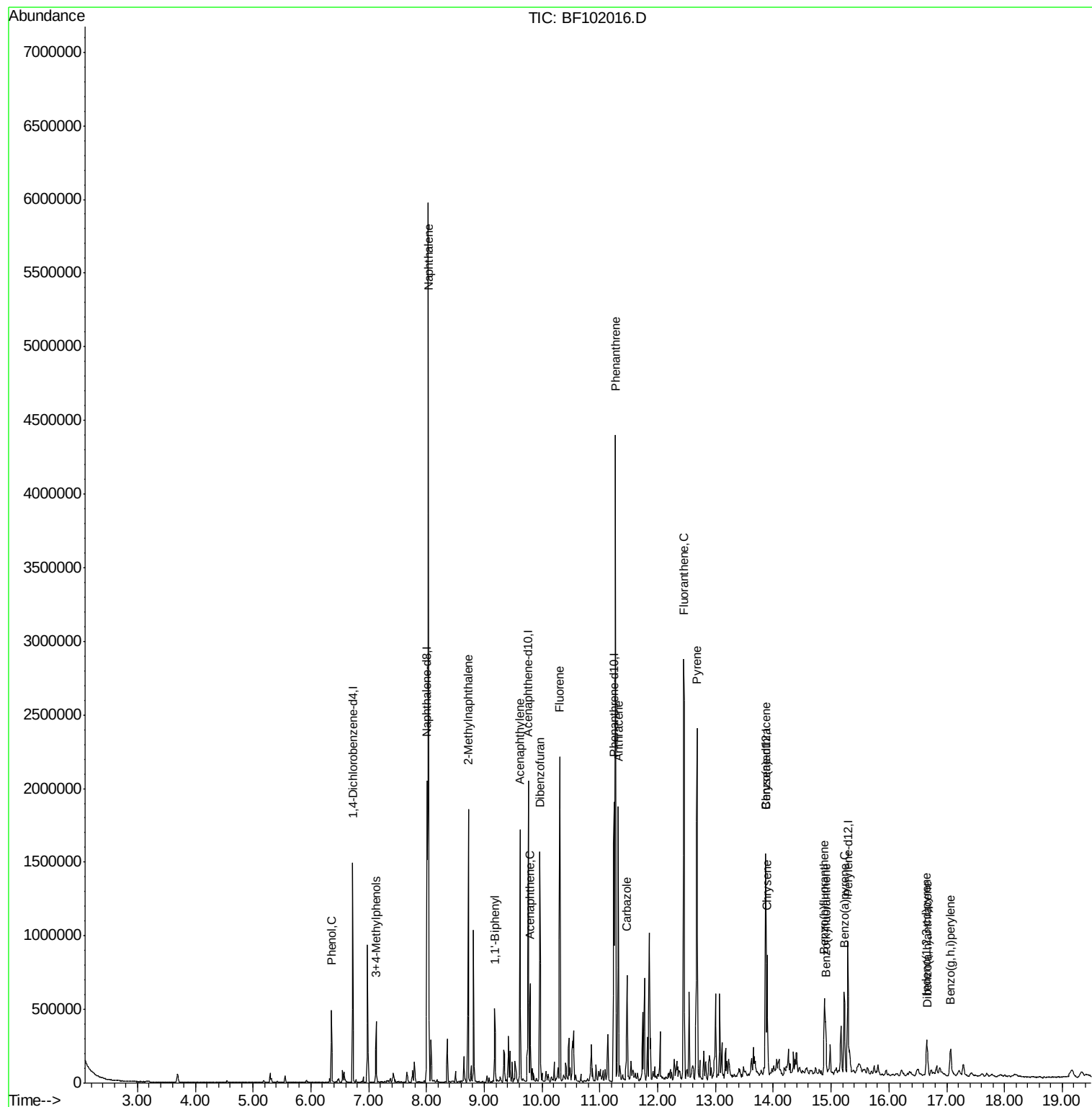
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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ALS Vial : 11 Sample Multiplier: 1

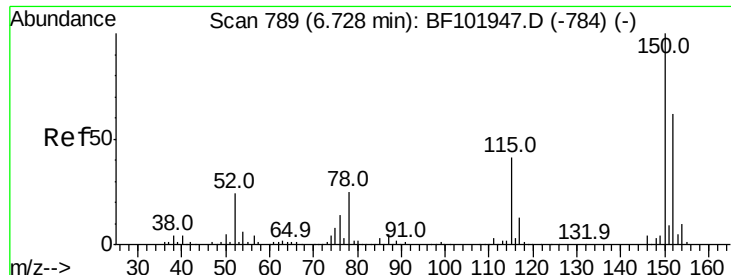
Instrument :
BNA_F
ClientSampleId :
WC-43-01DL

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Quant Time: Jan 11 14:25:34 2018
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

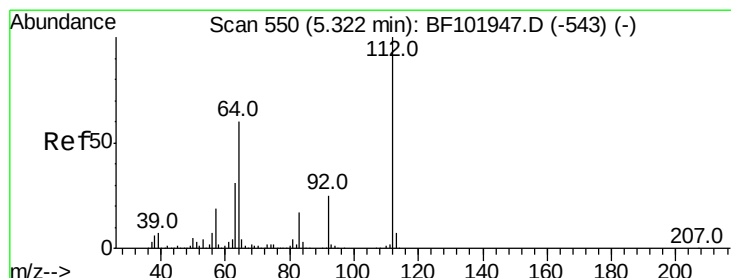
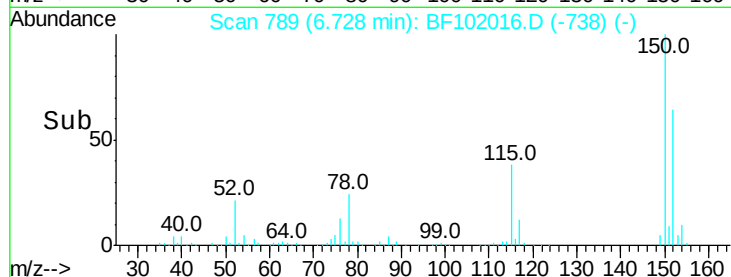
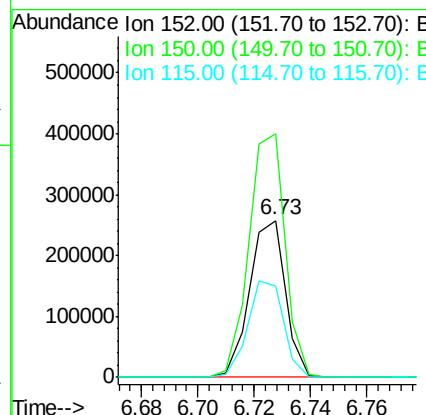
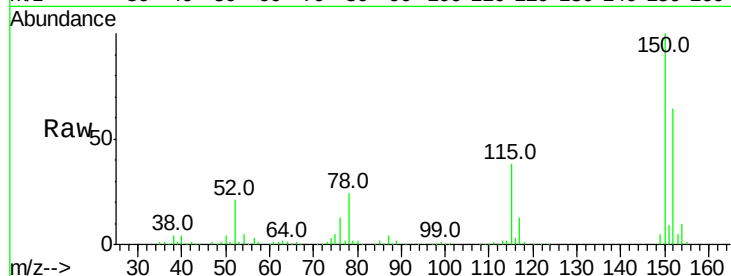
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Instrument :
BNA_F
ClientSampleId :
WC-43-01DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.5	124.6	186.8
115	58.7	50.1	75.1

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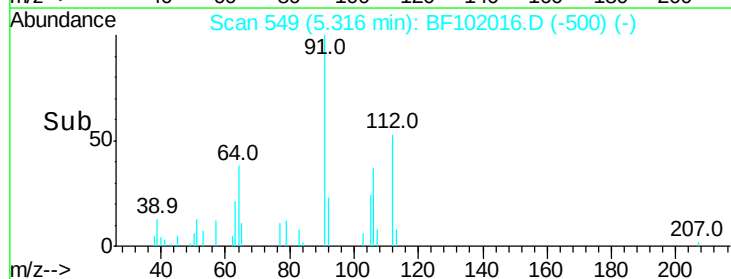
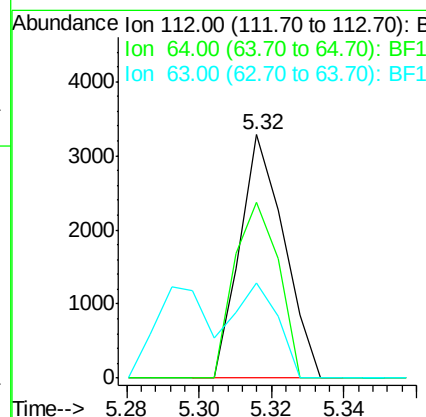
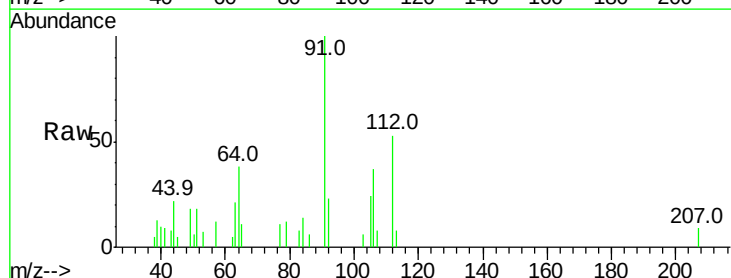
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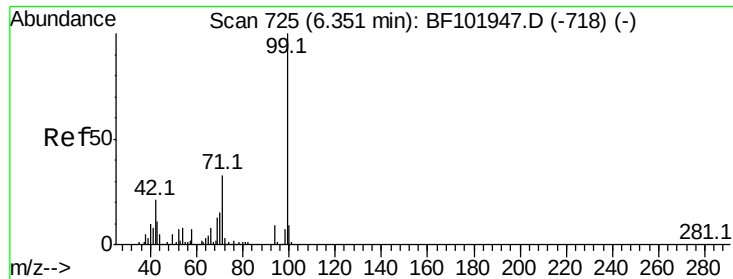


#5

2-Fluorophenol
Concen: 0.173 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.2	47.9	71.9#
63	39.1	23.7	35.5#





#7

Phenol-d6

Concen: 0.211 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

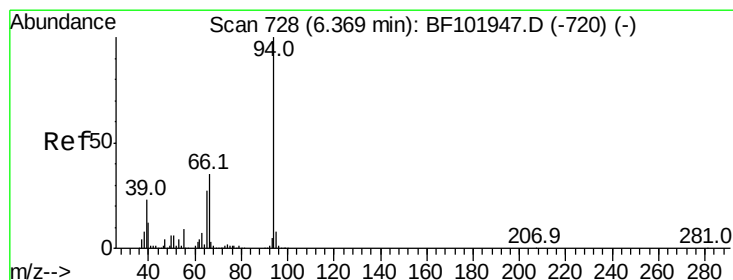
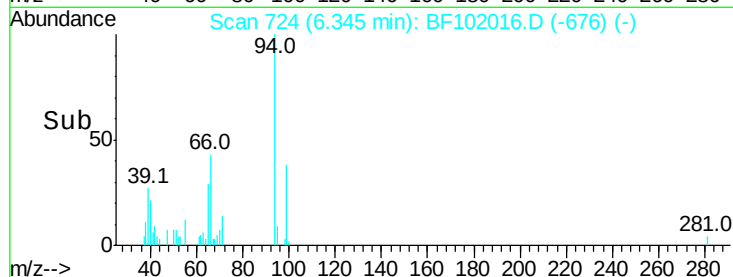
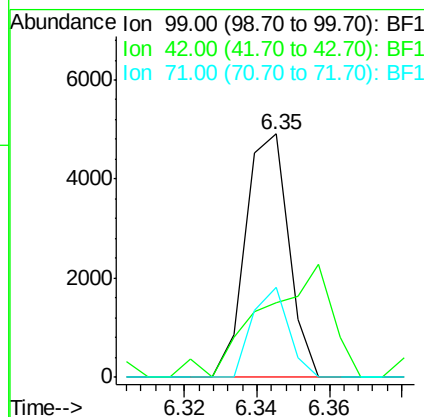
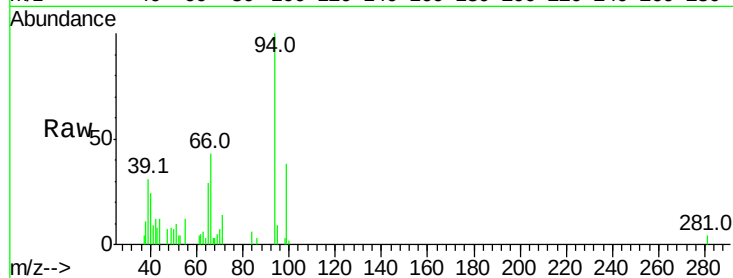
ClientSampleId :

WC-43-01DL

Tot Ion:	99	Resp:	4044
Ion	Ratio	Lower	Upper
99	100		
42	30.7	14.5	21.7#
71	37.1	25.4	38.0

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#10

Phenol

Concen: 5.967 ng

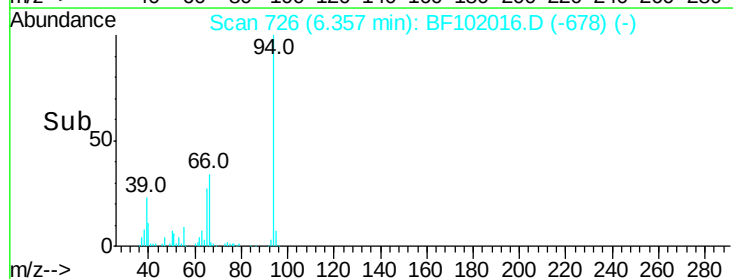
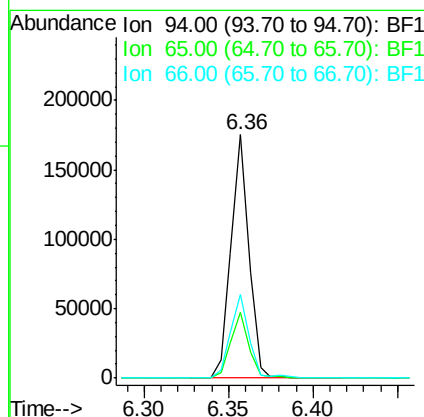
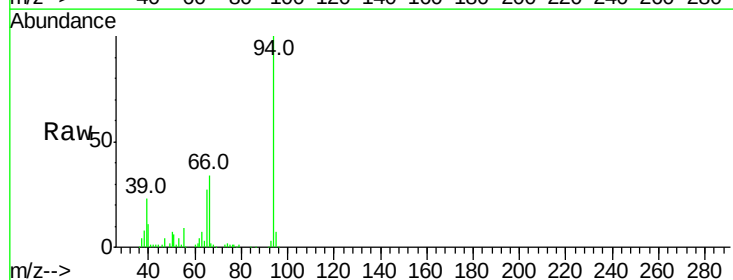
RT: 6.36 min Scan# 726

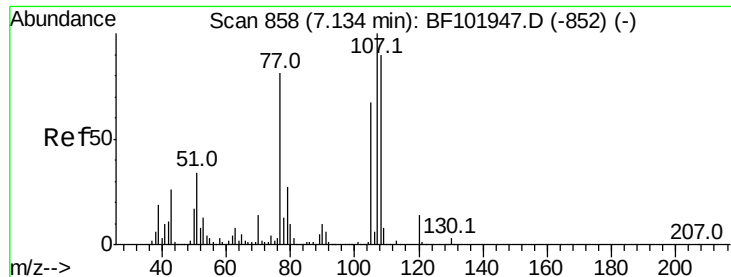
Delta R.T. -0.02 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion:	94	Resp:	129342
Ion	Ratio	Lower	Upper
94	100		
65	27.1	7.9	47.9
66	34.1	16.2	56.2





#20

3+4-Methylphenols

Concen: 4.748 ng

RT: 7.13 min Scan# 857

Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

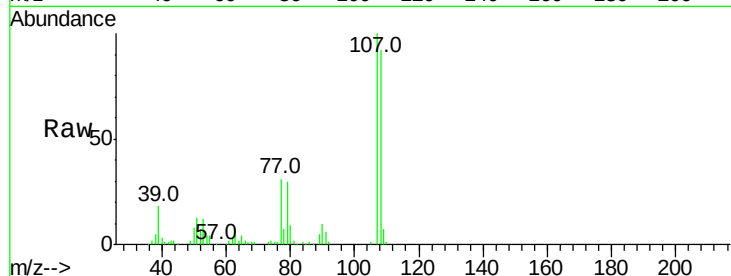
ClientSampleId :

WC-43-01DL

Tot Ion	107	Resp	82914
Ion	Ratio	Lower	Upper
107	100		
108	92.1	68.2	108.2
77	30.9	26.7	66.7
79	29.6	6.3	46.3

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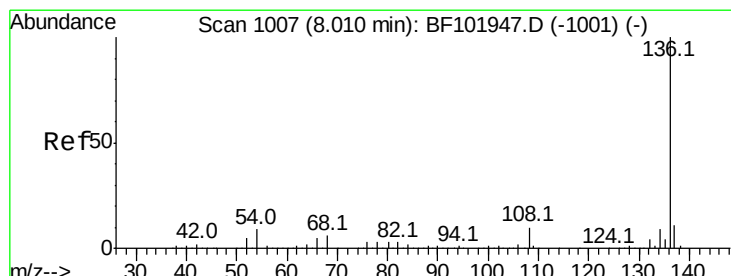
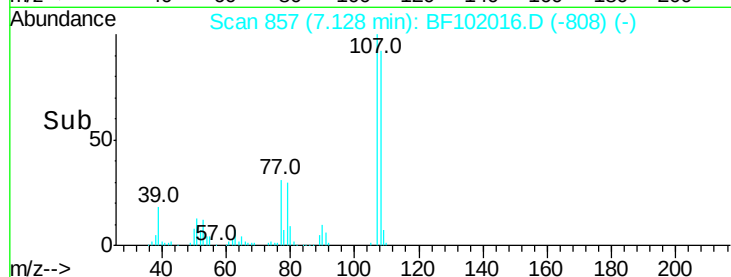
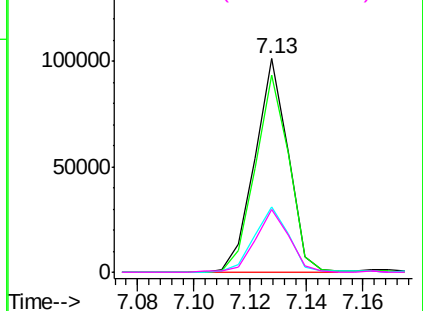
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion	136	Resp	936251
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	8.8	6.6	9.8
68	6.1	5.0	7.4

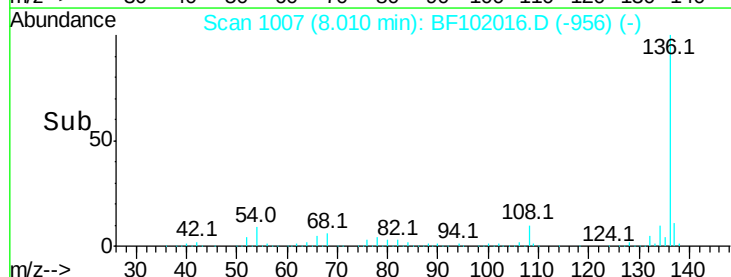
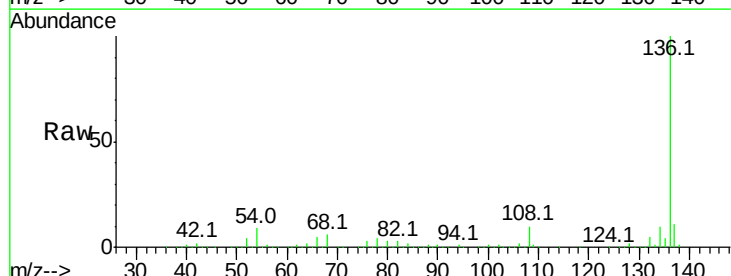
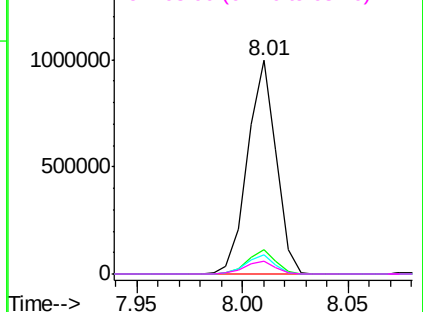
Abundance

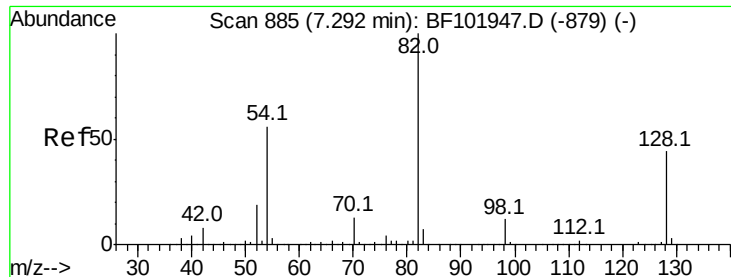
Ion 136.00 (135.70 to 136.70): E

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





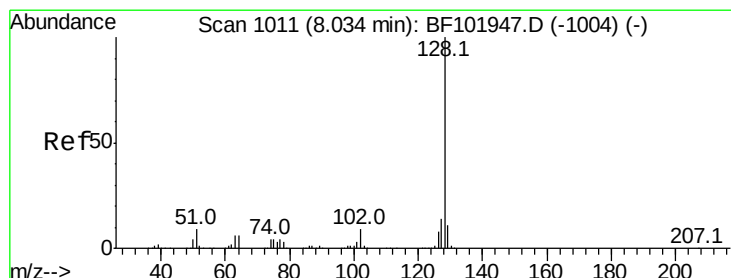
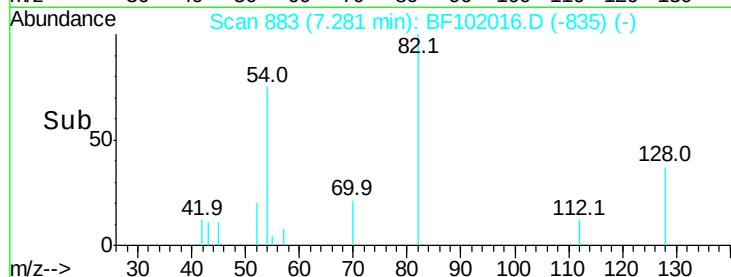
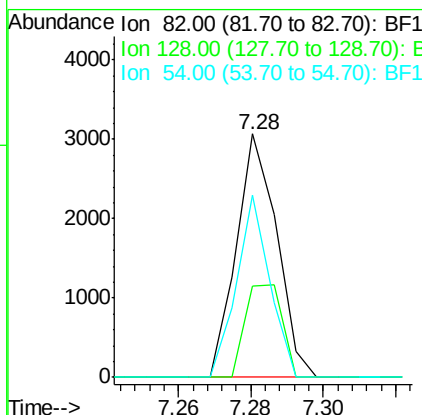
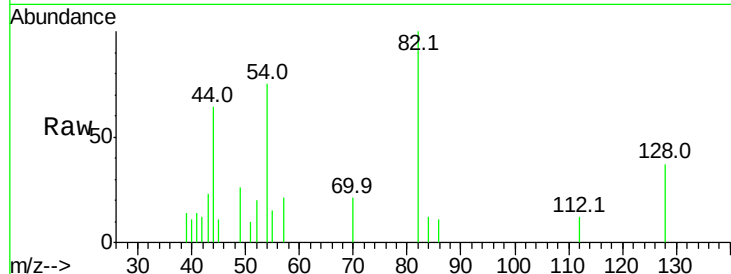
#23
Nitrobenzene-d5
Concen: 0.149 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Instrument :
BNA_F
ClientSampleId :
WC-43-01DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.4	36.1	54.1
54	75.0	41.4	62.2#

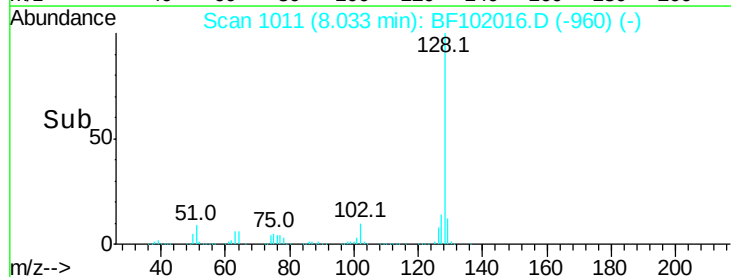
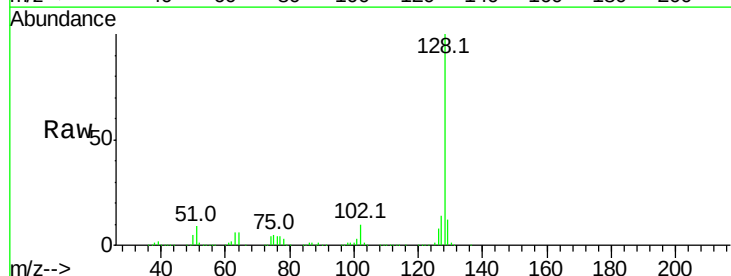
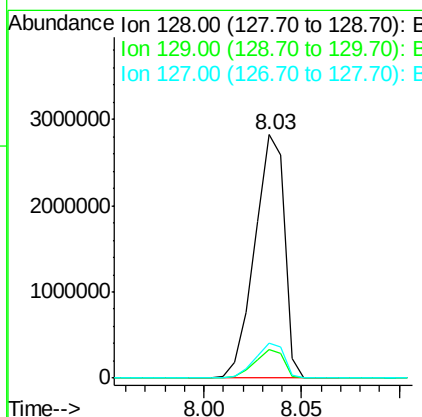
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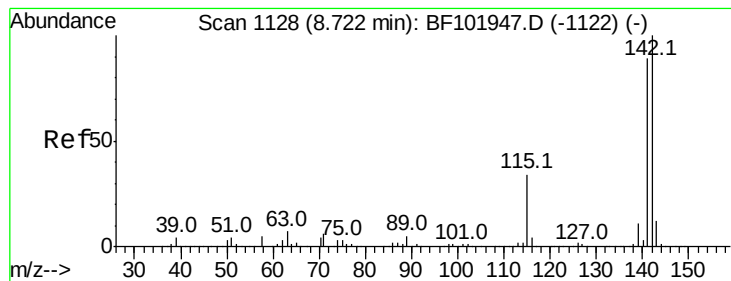
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#31
Naphthalene
Concen: 63.617 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.00 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	14.3	10.9	16.3





#37

2-Methylnaphthalene

Concen: 15.965 ng

RT: 8.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

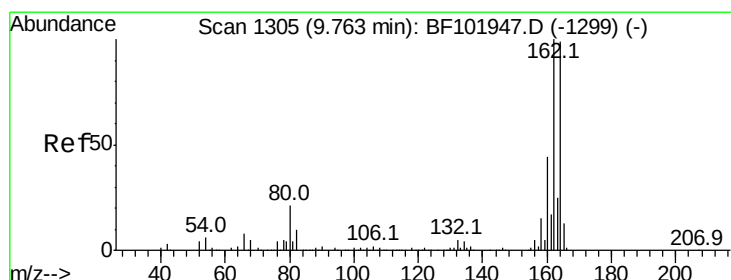
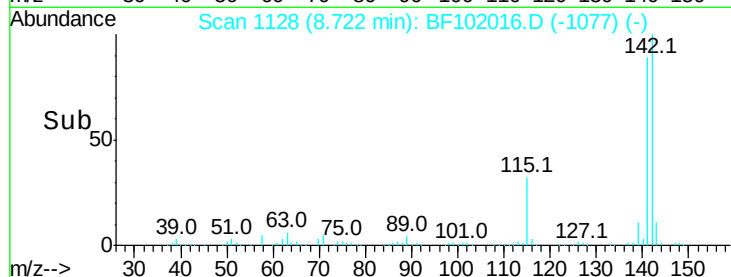
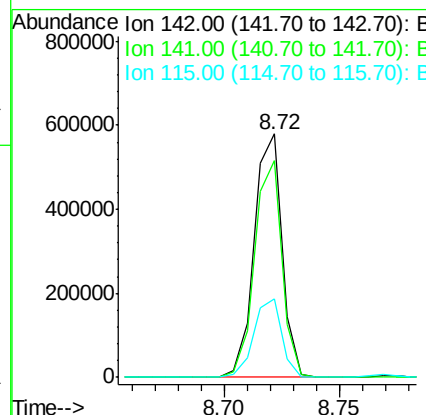
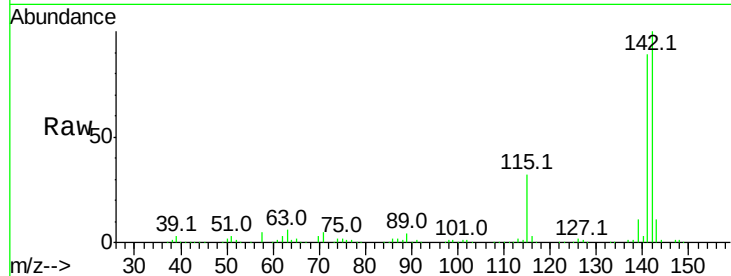
ClientSampleId :

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Tot Ion:	142	Resp:	491694
Ion Ratio	Lower	Upper	
142	100		
141	88.9	70.8	106.2
115	32.0	26.1	39.1

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#38

Acenaphthene-d10

Concen: 20.000 ng

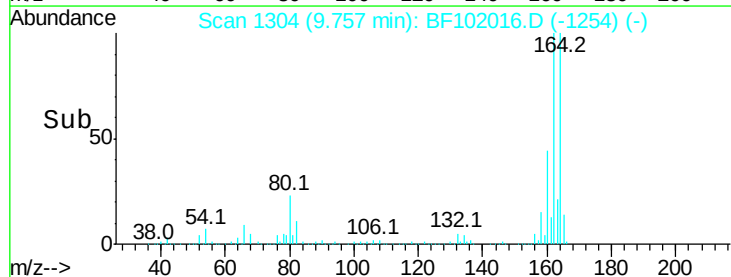
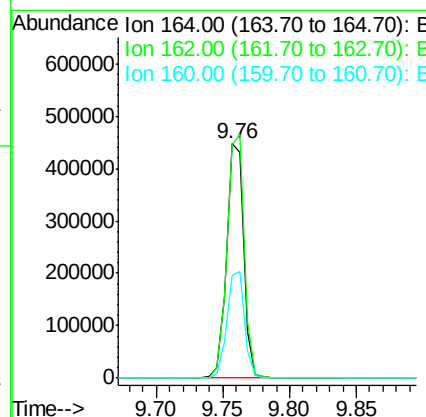
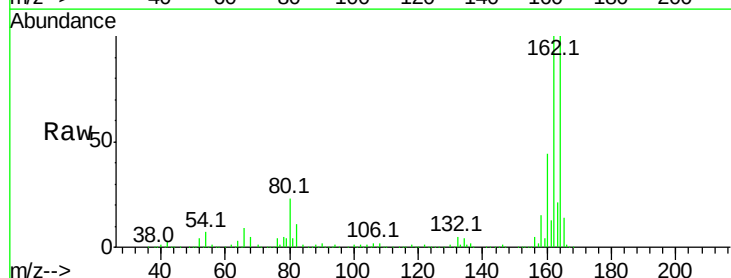
RT: 9.76 min Scan# 1304

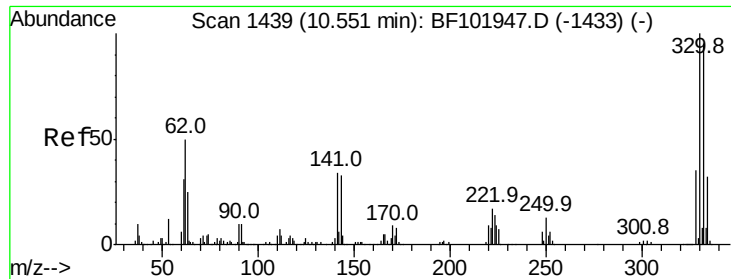
Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion:	164	Resp:	409552
Ion Ratio	Lower	Upper	
164	100		
162	99.7	86.1	129.1
160	43.9	38.3	57.5





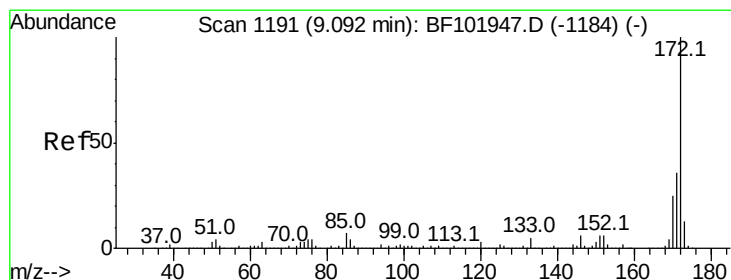
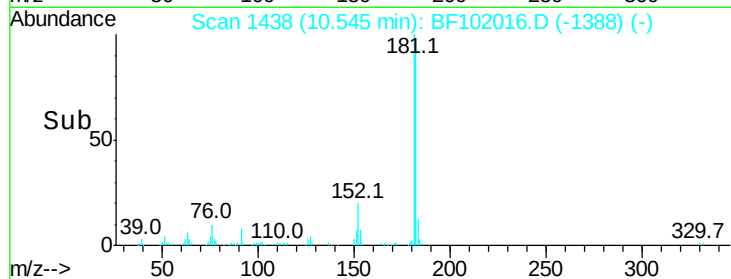
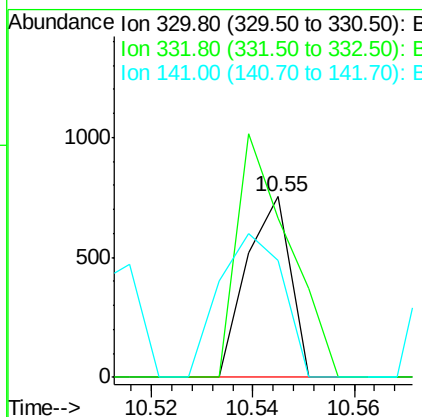
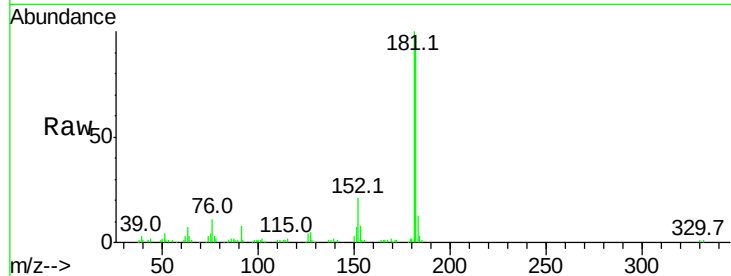
#41
 2,4,6-Tribromophenol
 Concen: 0.126 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF102016.D
 Acq: 11 Jan 2018 13:37

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-01DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	160.8	77.0	115.6#
141	117.1	29.9	44.9#

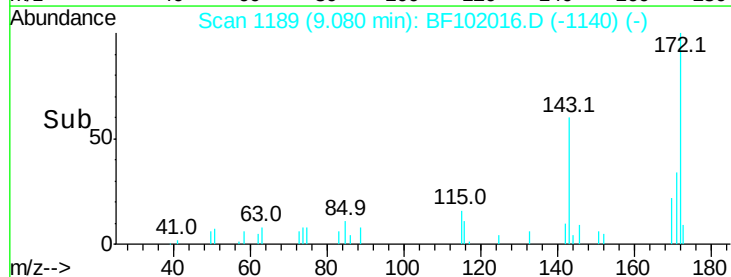
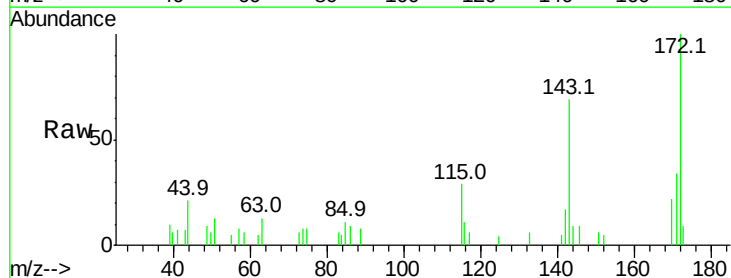
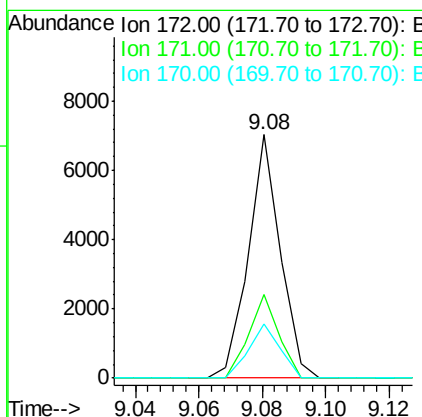
Manual Integrations
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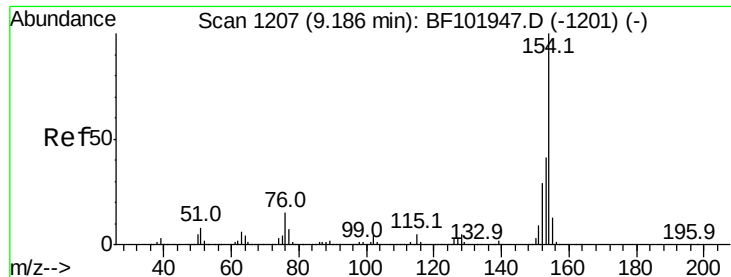
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#44
 2-Fluorobiphenyl
 Concen: 0.187 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102016.D
 Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	29.7	44.5
170	22.4	19.6	29.4





#45

1,1'-Biphenyl

Concen: 3.544 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

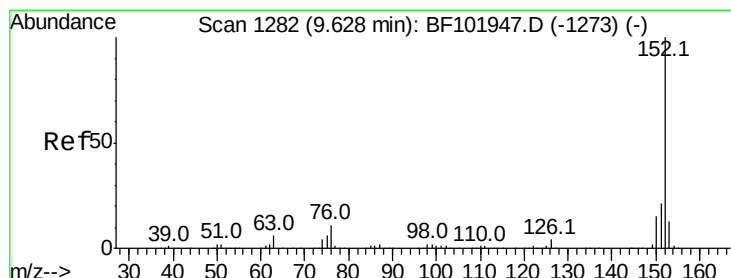
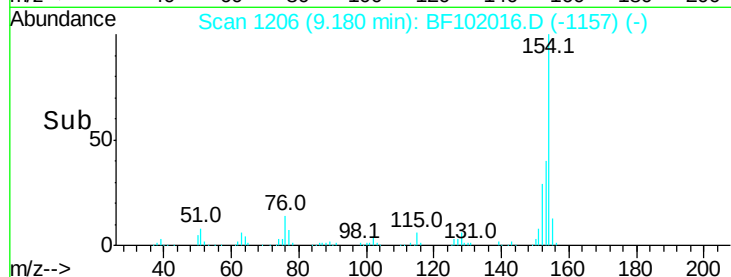
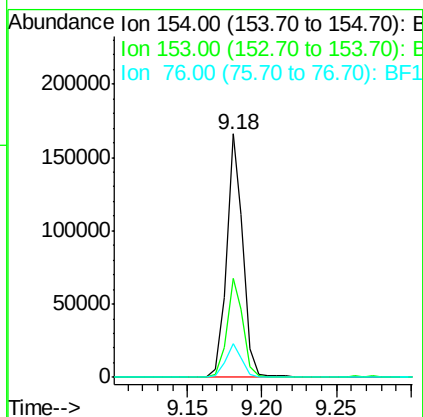
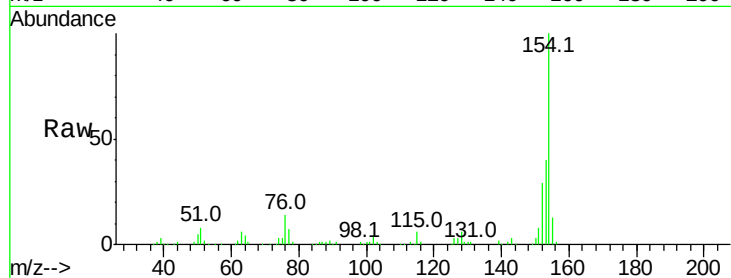
ClientSampleId :

WC-43-01DL

Tot Ion:	154	Resp:	128279
Ion Ratio	Lower	Upper	
154	100		
153	40.4	21.3	61.3
76	14.0	0.0	34.0

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#48

Acenaphthylene

Concen: 14.388 ng

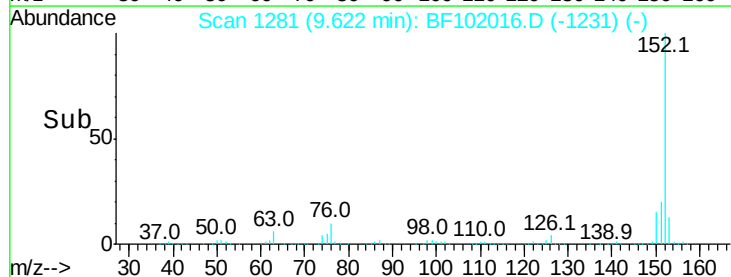
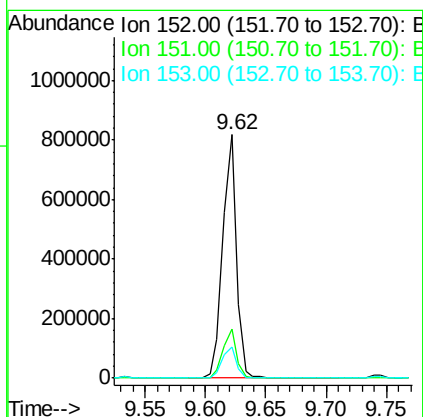
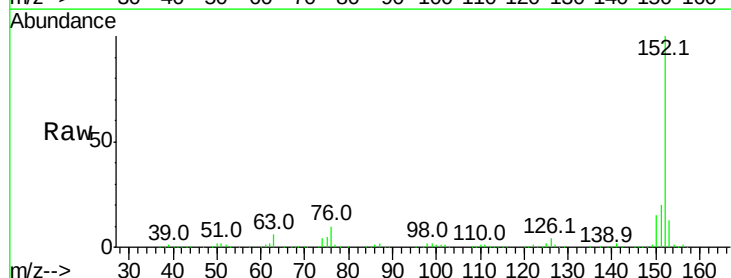
RT: 9.62 min Scan# 1281

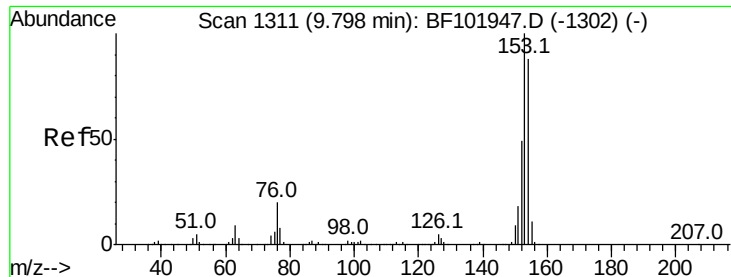
Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion:	152	Resp:	640984
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.3	24.5
153	12.6	10.7	16.1





#51

Acenaphthene

Concen: 4.494 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

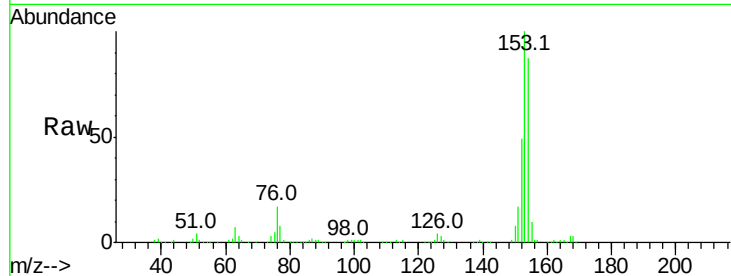
ClientSampleID :

WC-43-01DL

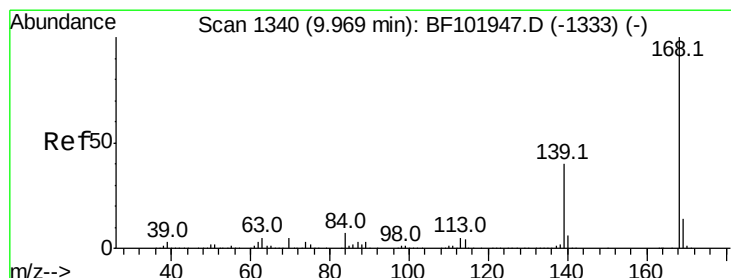
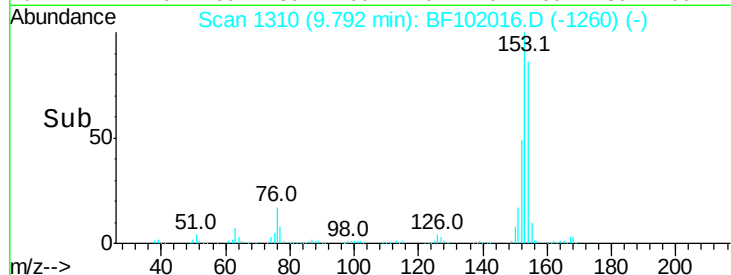
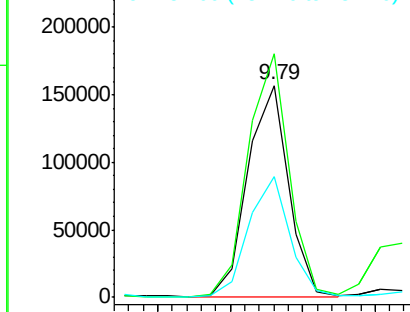
Tot Ion:	154	Resp:	121515
Ion Ratio	Lower	Upper	
154	100		
153	114.8	91.2	136.8
152	56.8	43.8	65.8

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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: 13.967 ng

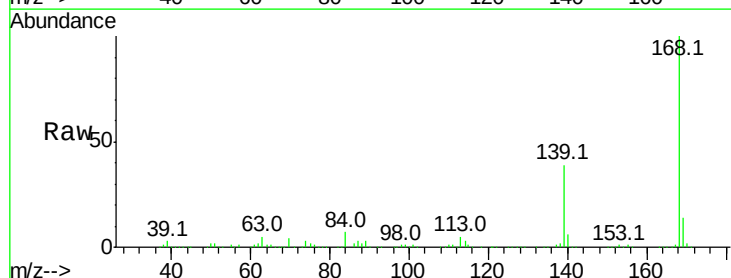
RT: 9.96 min Scan# 1339

Delta R.T. -0.01 min

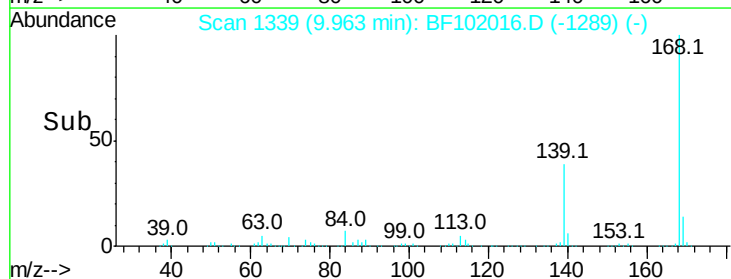
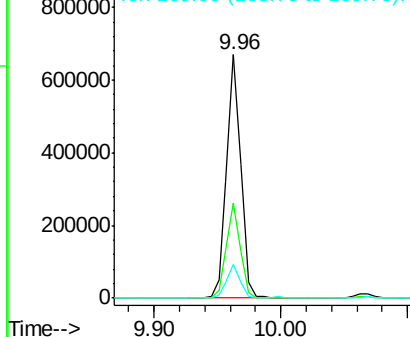
Lab File: BF102016.D

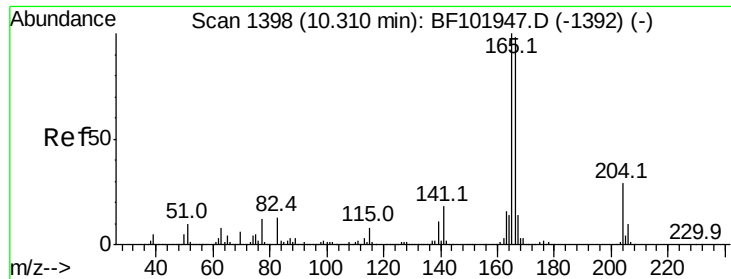
Acq: 11 Jan 2018 13:37

Tgt Ion:	168	Resp:	518314
Ion Ratio	Lower	Upper	
168	100		
139	39.0	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





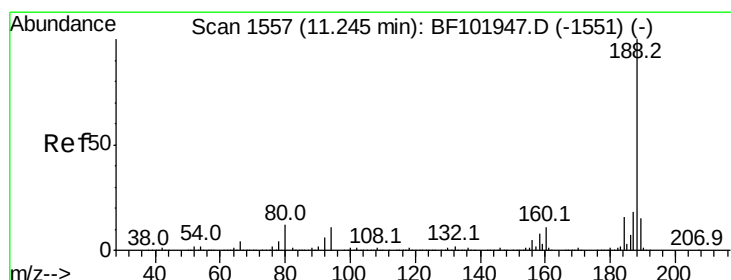
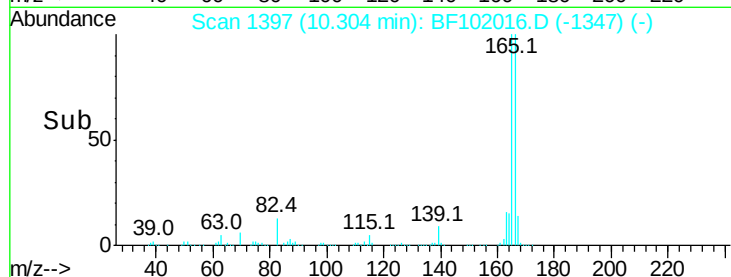
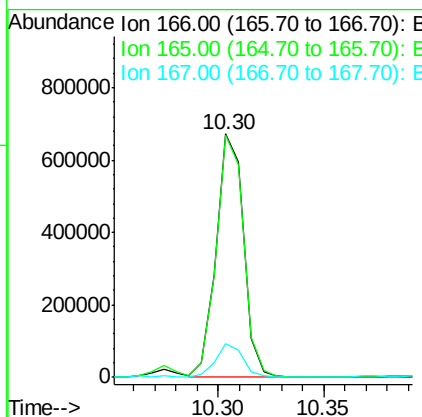
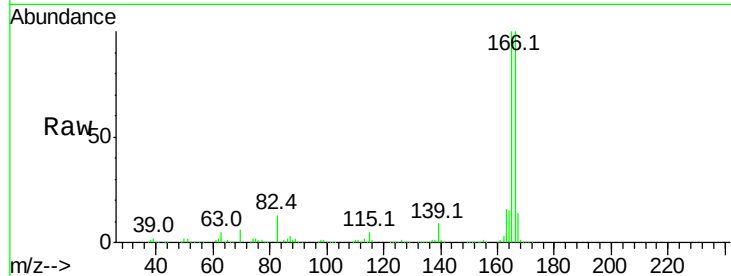
#57
Fluorene
 Concen: 23.482 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF102016.D
 Acq: 11 Jan 2018 13:37

Instrument :
 BNA_F
 ClientSampleId :
 WC-43-01DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	602411		
165	99.6	79.8	119.8	
167	13.9	10.6	16.0	

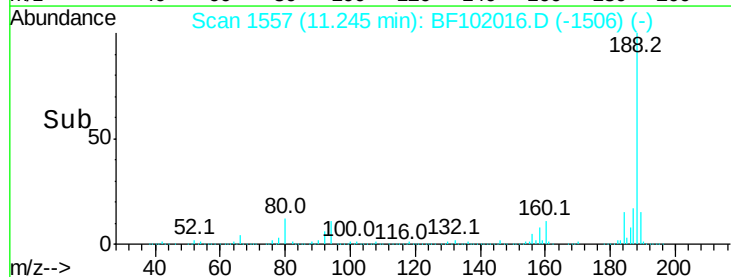
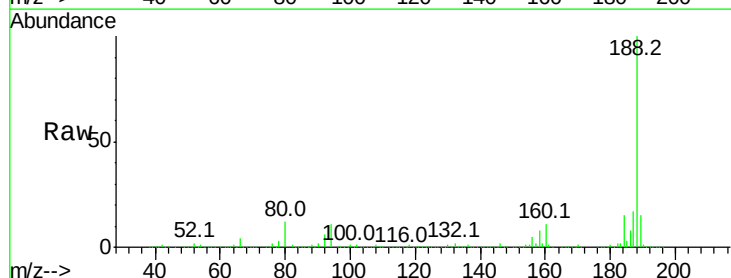
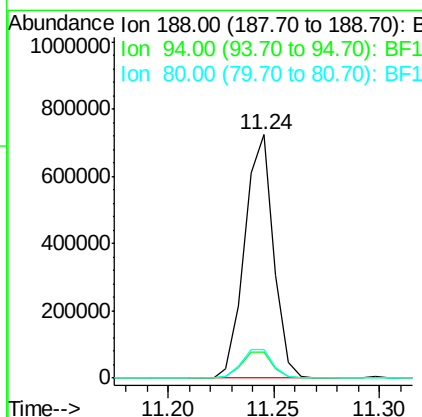
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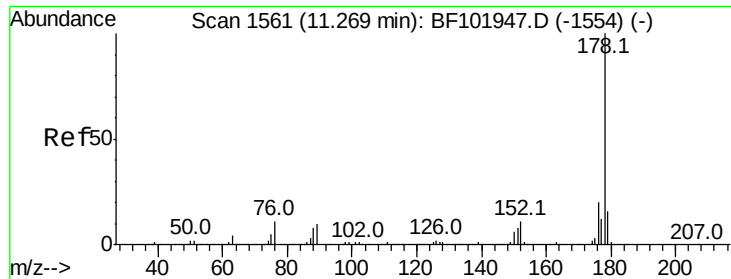
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. -0.00 min
 Lab File: BF102016.D
 Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	682179		
94	10.6	8.5	12.7	
80	11.6	9.2	13.8	





#70

Phenanthrene

Concen: 44.324 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.00 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

ClientSampleId :

WC-43-01DL

Tot Ion:178 Resp: 1766242

Ion Ratio Lower Upper

178 100

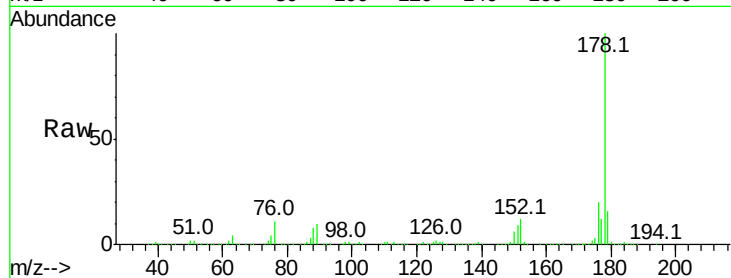
176 20.4 15.8 23.8

179 15.7 13.0 19.6

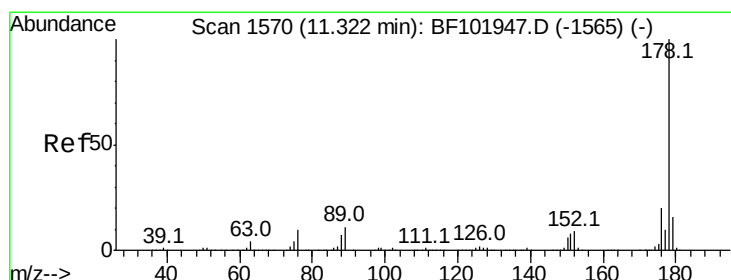
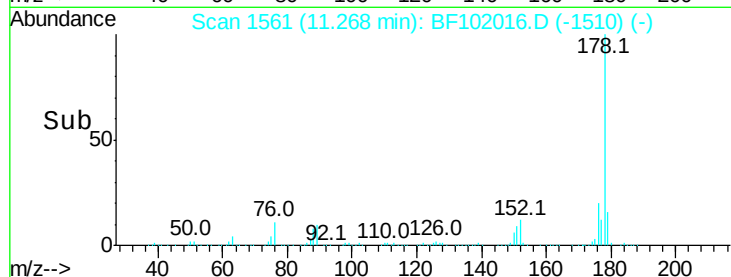
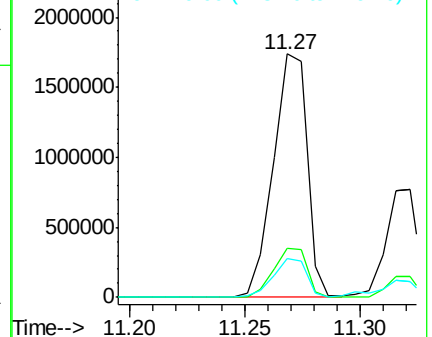
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 17.776 ng

RT: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion:178 Resp: 718403

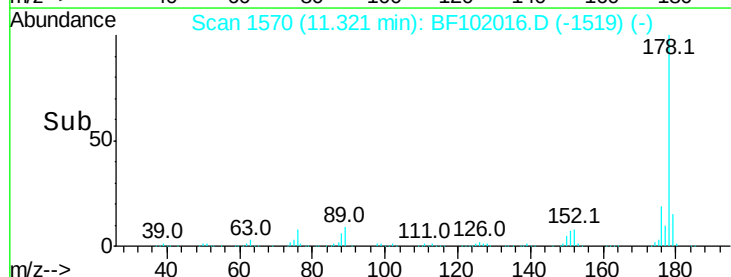
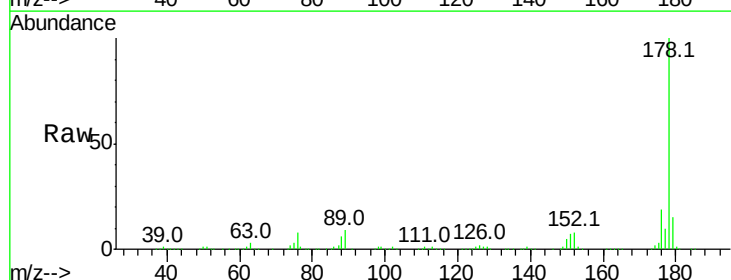
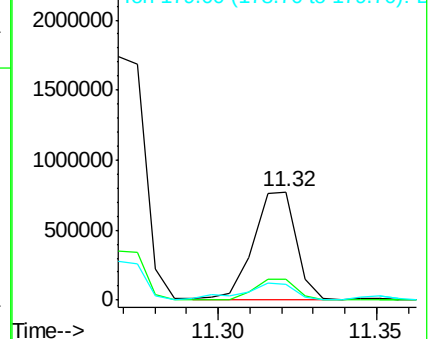
Ion Ratio Lower Upper

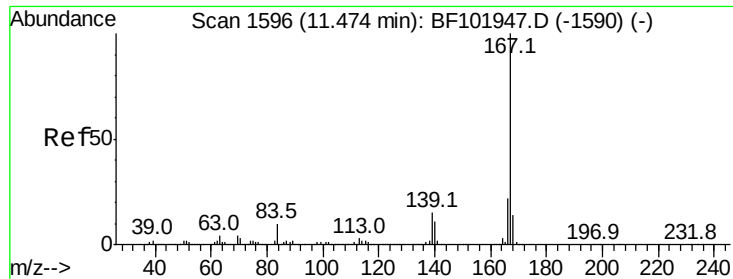
178 100

176 18.8 15.4 23.2

179 15.0 12.6 19.0

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: 6.591 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

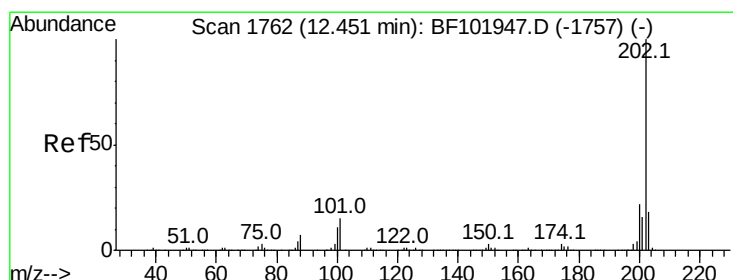
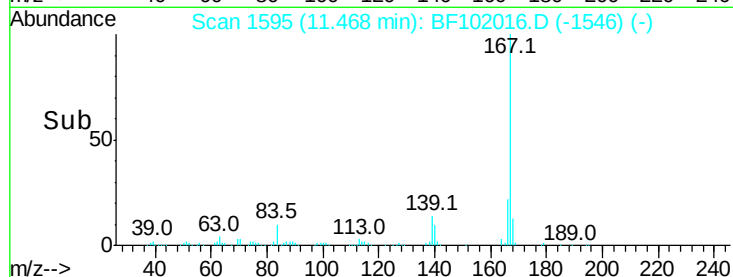
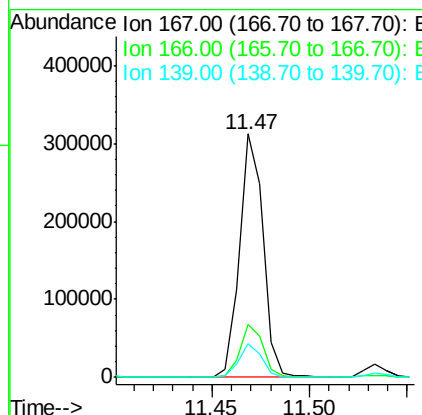
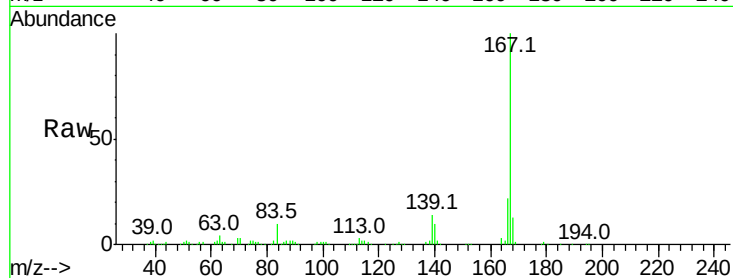
ClientSampleId :

WC-43-01DL

Tot Ion:	167	Resp:	261829
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.6	26.4
139	14.0	10.9	16.3

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#74

Fluoranthene

Concen: 29.760 ng

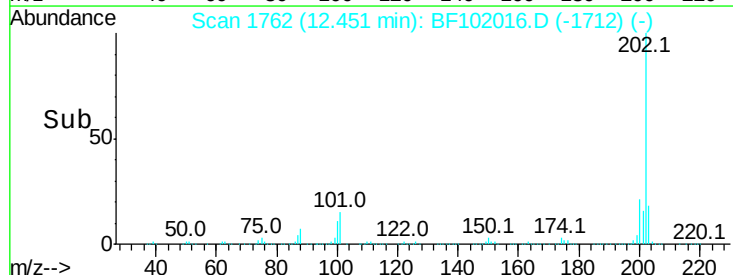
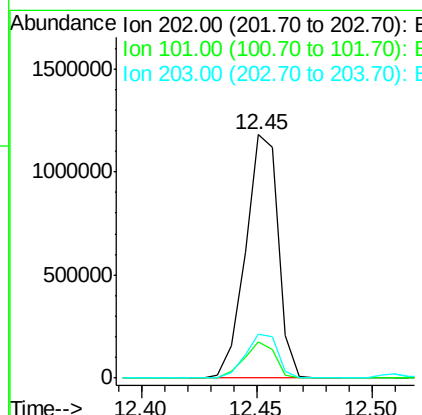
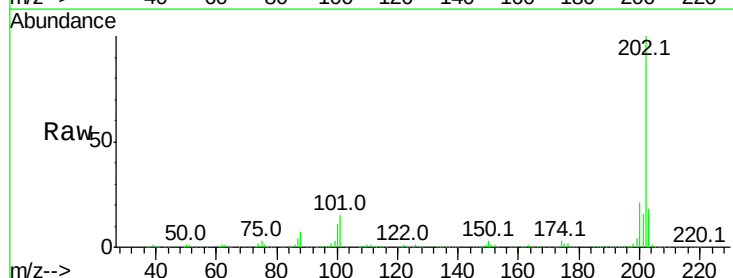
RT: 12.45 min Scan# 1762

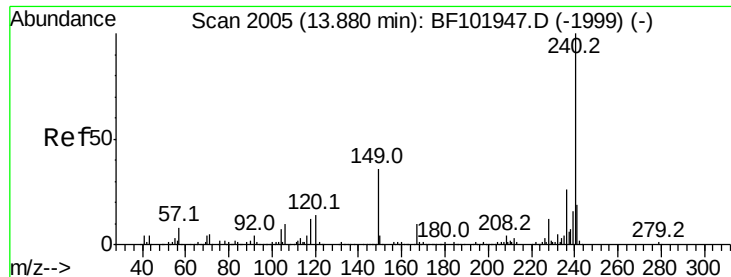
Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion:	202	Resp:	1166746
Ion Ratio	Lower	Upper	
202	100		
101	14.9	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Instrument :

BNA_F

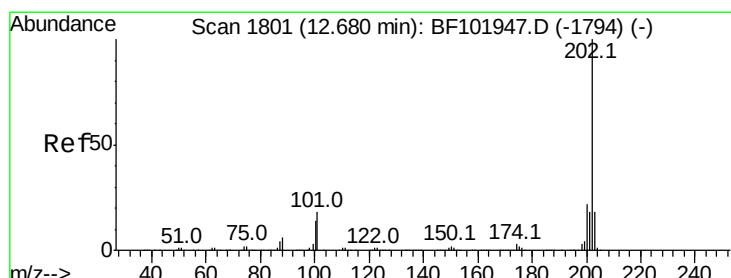
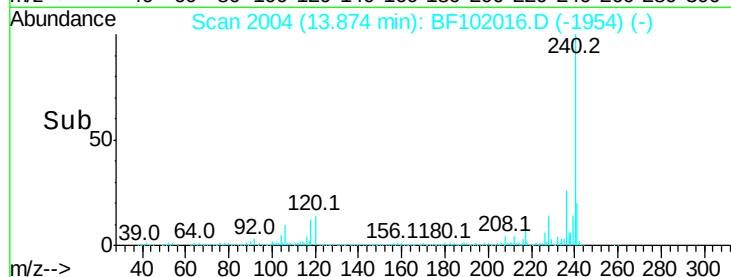
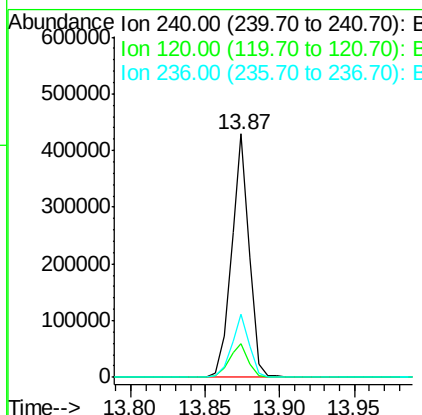
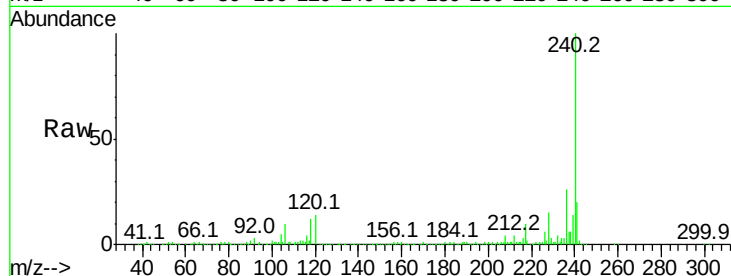
ClientSampleId :

WC-43-01DL

Tot Ion:	240	Resp:	358586
Ion Ratio	Lower	Upper	
240	100		
120	13.8	9.5	14.3
236	26.1	20.7	31.1

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#77

Pyrene

Concen: 27.918 ng

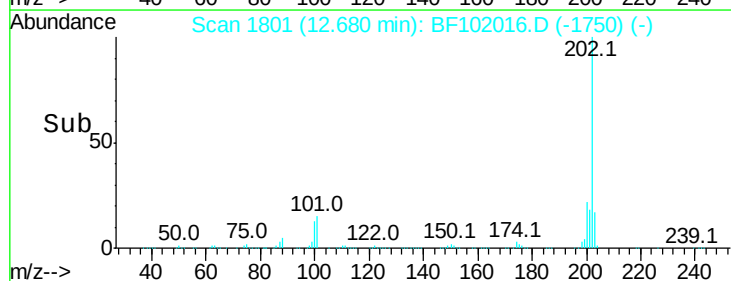
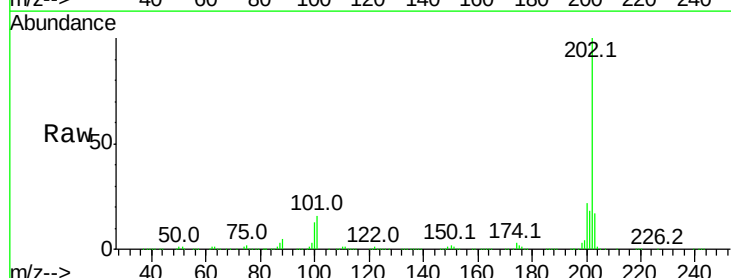
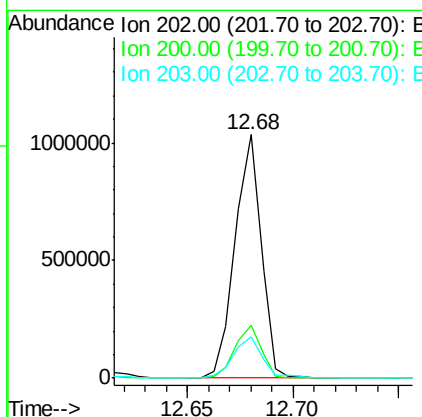
RT: 12.68 min Scan# 1801

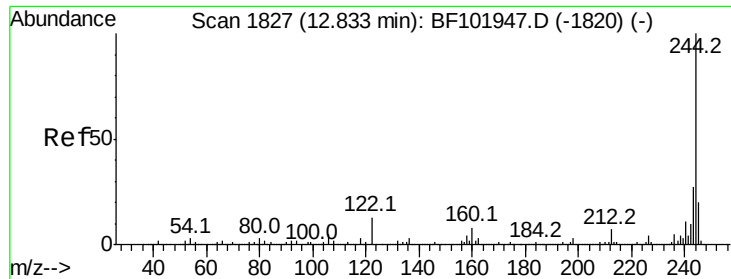
Delta R.T. -0.00 min

Lab File: BF102016.D

Acq: 11 Jan 2018 13:37

Tgt Ion:	202	Resp:	884917
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	17.1	14.3	21.5





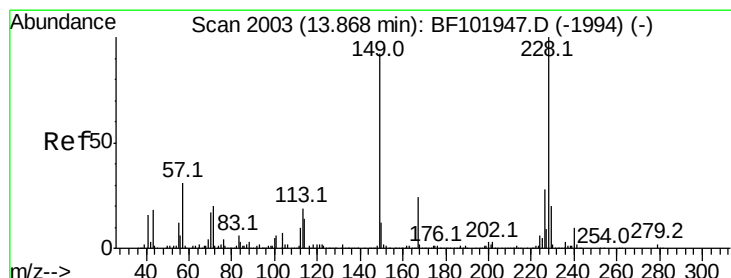
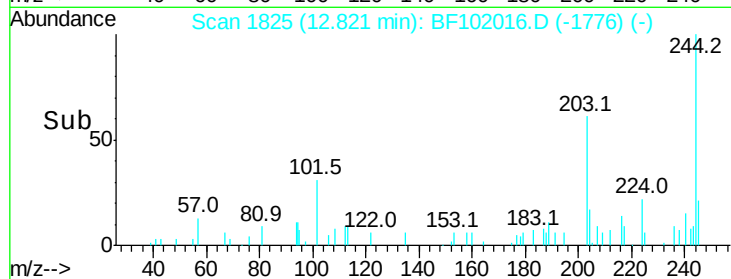
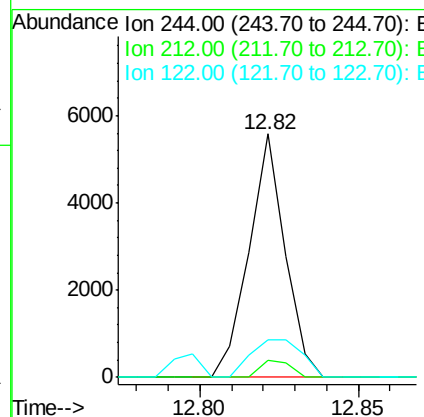
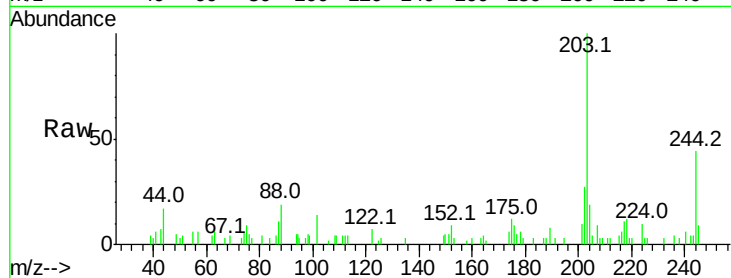
#78
 Terphenyl-d14
 Concen: 0.255 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF102016.D
 Acq: 11 Jan 2018 13:37

Instrument :
 BNA_F
 ClientSampleID :
 WC-43-01DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	15.1	11.0	16.4

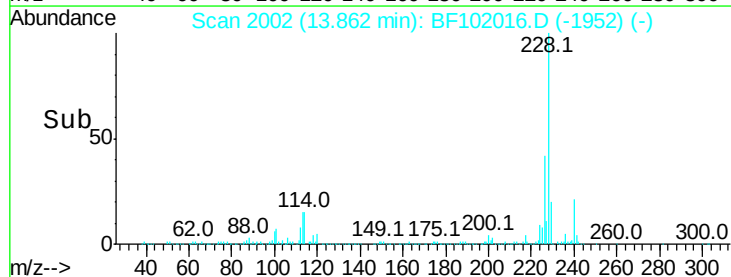
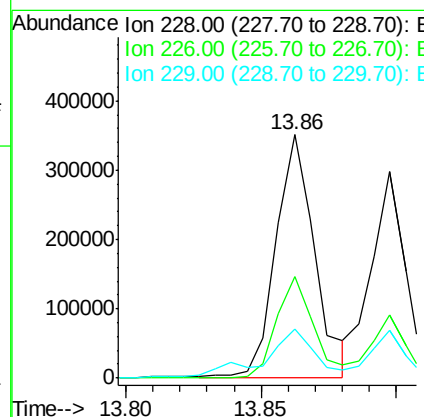
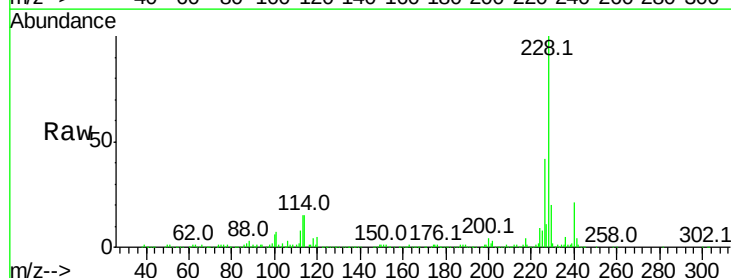
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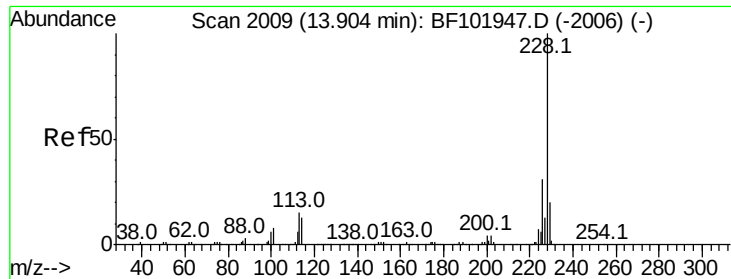
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#80
 Benzo(a)anthracene
 Concen: 15.389 ng m
 RT: 13.86 min Scan# 2002
 Delta R.T. -0.01 min
 Lab File: BF102016.D
 Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	41.7	22.6	33.8#
229	20.2	15.8	23.6





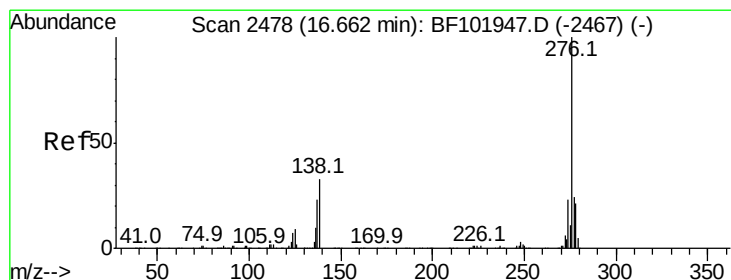
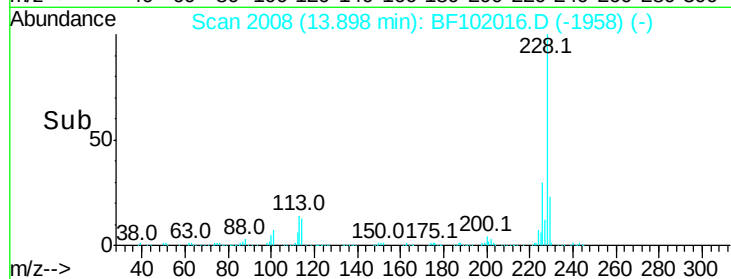
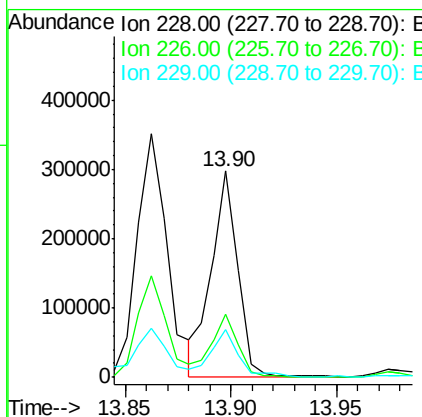
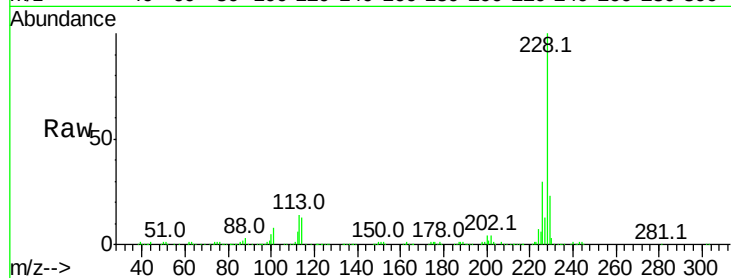
#82
Chrysene
Concen: 10.798 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Instrument :
BNA_F
ClientSampleId :
WC-43-01DL

Tot Ion:	228	Resp:	257612
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	23.3	16.2	24.4

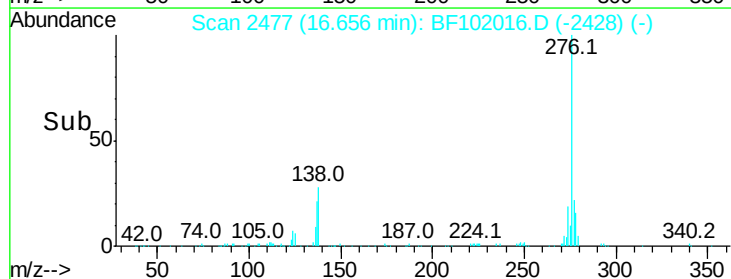
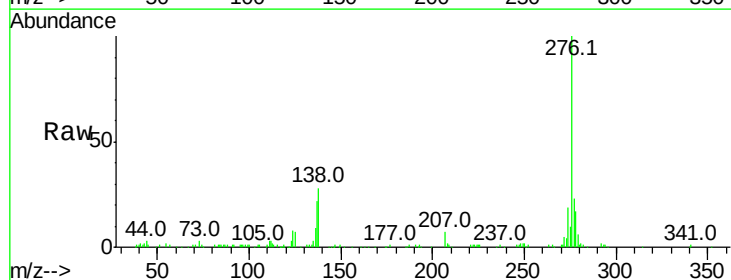
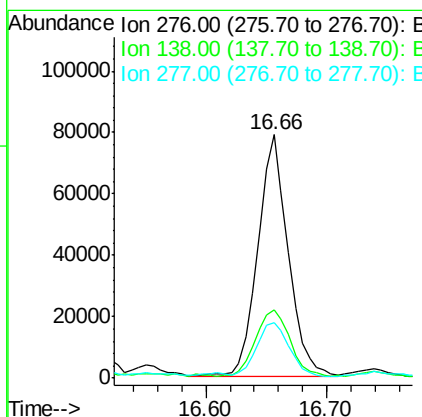
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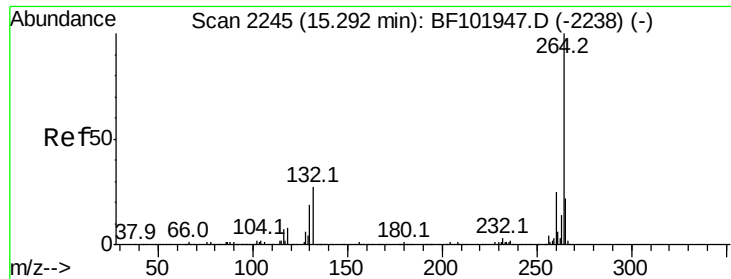
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#85
Indeno(1,2,3-cd)pyrene
Concen: 7.865 ng
RT: 16.66 min Scan# 2477
Delta R.T. -0.01 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Tgt Ion:	276	Resp:	136555
Ion Ratio	Lower	Upper	
276	100		
138	30.6	25.0	37.6
277	24.2	20.1	30.1





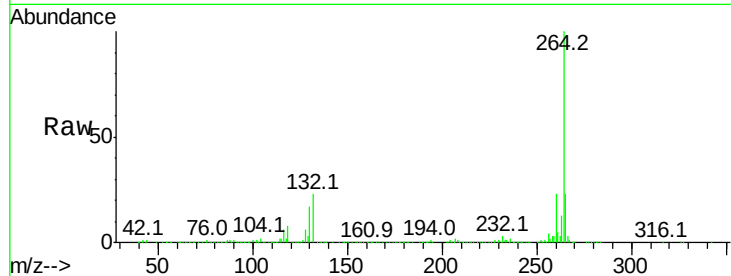
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Instrument :
BNA_F
ClientSampleId :
WC-43-01DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.2	28.8
265	22.6	17.5	26.3

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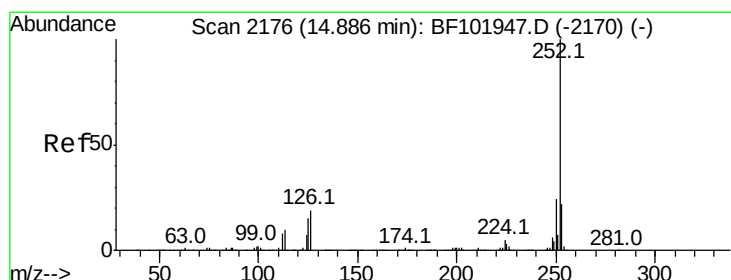
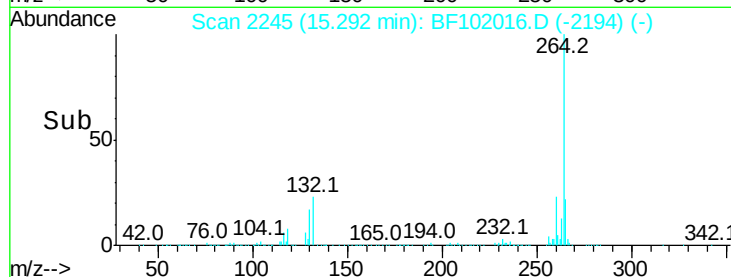
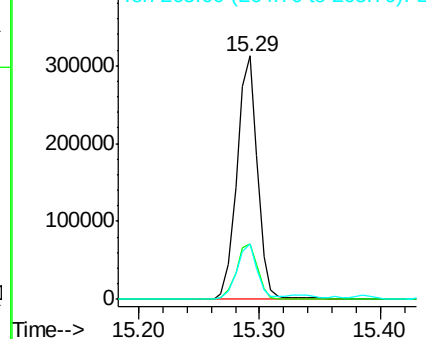


Abundance

Ion 264.00 (263.70 to 264.70): E

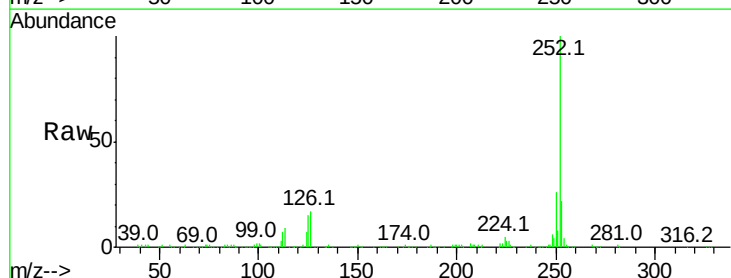
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 12.620 ng m
RT: 14.89 min Scan# 2176
Delta R.T. -0.00 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	15.3	9.0	13.6#

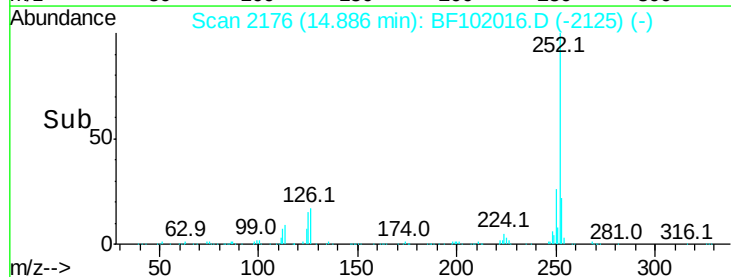
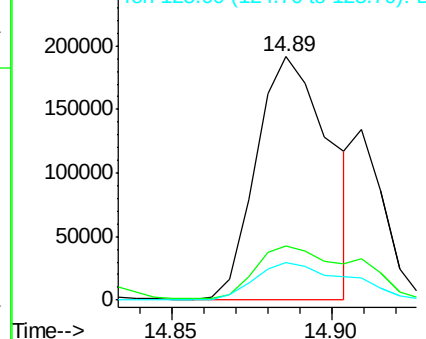


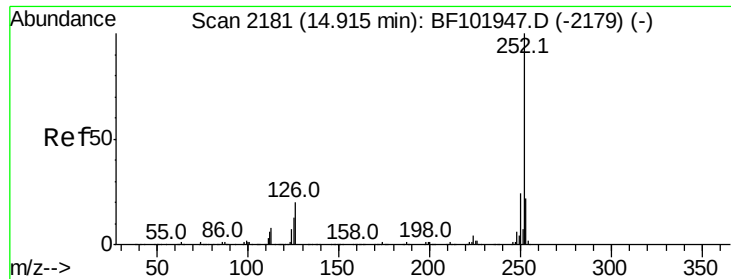
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





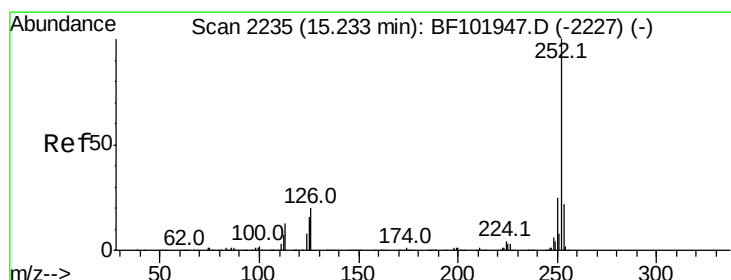
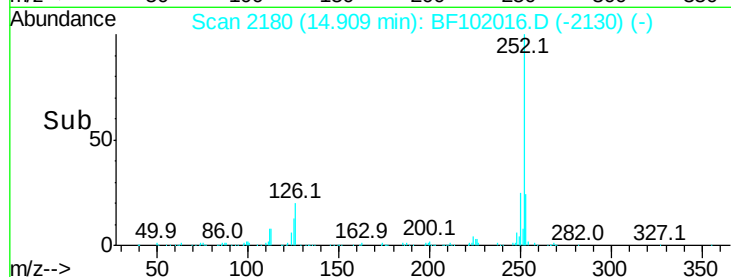
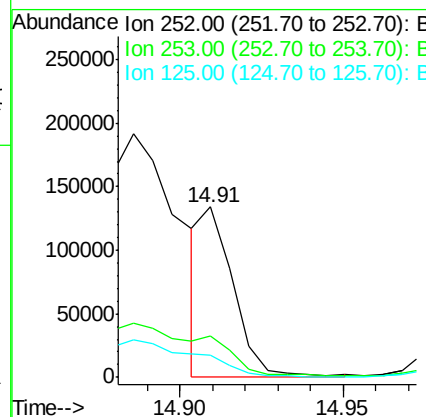
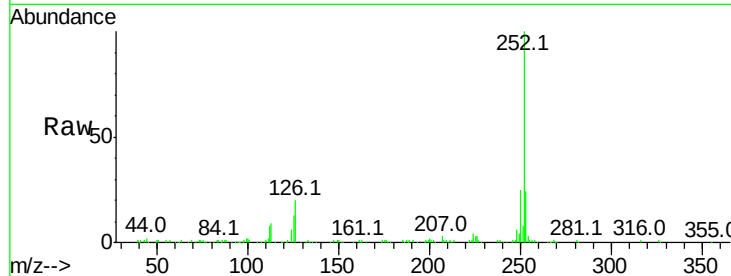
#88
Benzo(k)fluoranthene
Concen: 3.914 ng/mL
RT: 14.91 min Scan# 2180
Delta R.T. -0.01 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Instrument :
BNA_F
ClientSampleID :
WC-43-01DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.9	26.9
125	13.1	10.2	15.2

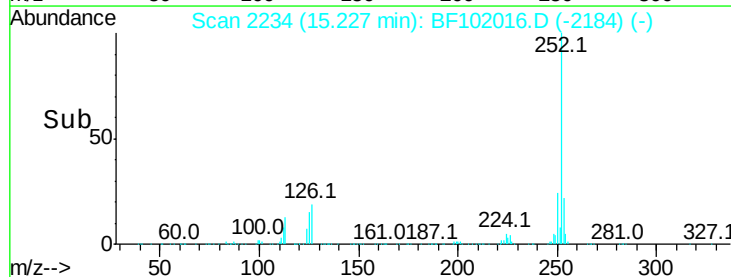
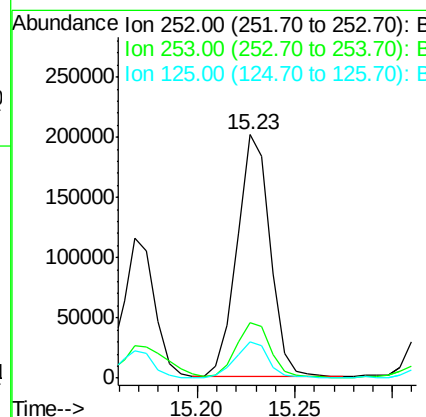
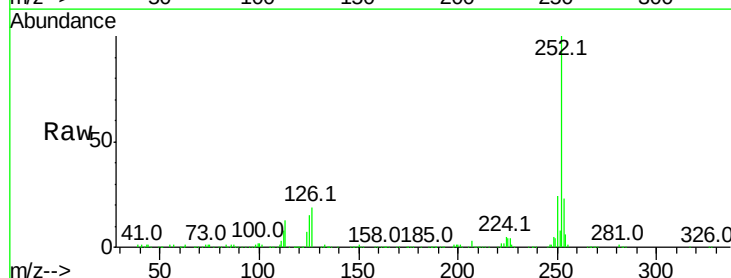
Manual Integrations
APPROVED

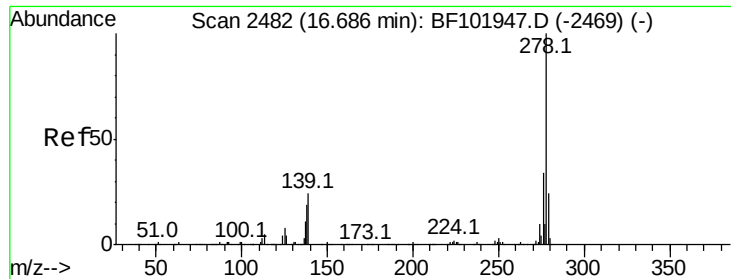
Sohil
1/12/2018 10:37:11 AM



#89
Benzo(a)pyrene
Concen: 10.823 ng/mL
RT: 15.23 min Scan# 2234
Delta R.T. -0.01 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	14.9	9.8	14.6





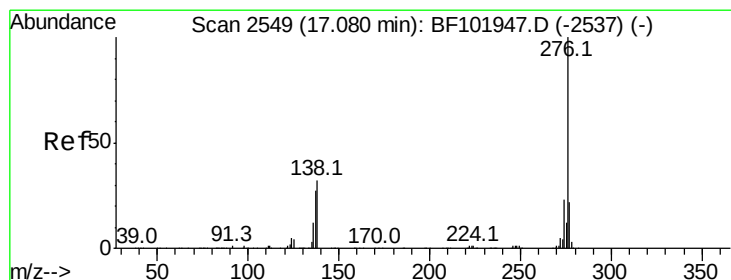
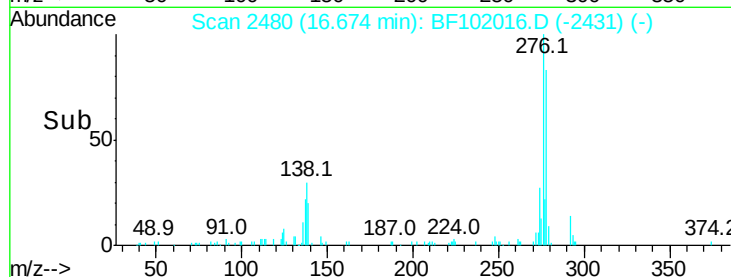
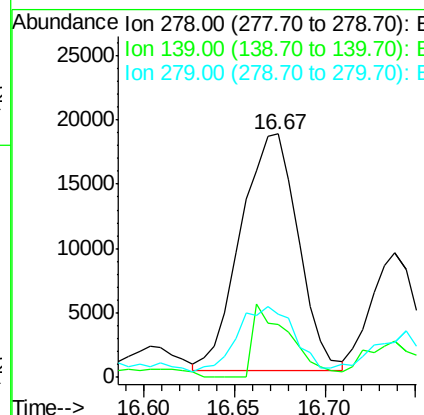
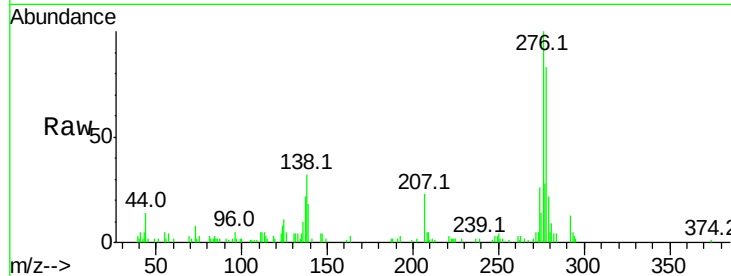
#90
Dibenzo(a,h)anthracene
Concen: 2.330 ng
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Instrument :
BNA_F
ClientSampleId :
WC-43-01DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.9	15.9	23.9
279	26.0	19.0	28.4

Manual Integrations
APPROVED

Sohil
1/12/2018 10:37:11 AM



#91
Benzo(g,h,i)perylene
Concen: 6.858 ng
RT: 17.07 min Scan# 2547
Delta R.T. -0.02 min
Lab File: BF102016.D
Acq: 11 Jan 2018 13:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	31.4	21.8	32.8

