

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121417\
 Data File : BF101433.D
 Acq On : 15 Dec 2017 9:44
 Operator : SJ/JU
 Sample : I6838-01DL 500X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-01DL

Manual Integrations
 APPROVED

Sohil
 12/15/2017 6:45:26 PM

Quant Time: Dec 15 15:12:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 15:42:32 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	168937	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	661924	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	295738	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	510691	20.00	ng	0.00
75) Chrysene-d12	13.99	240	326196	20.00	ng	-0.01
86) Perylene-d12	15.46	264	330491	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	0.00	112	0	0.00	ng	
7) Phenol-d6	6.47	99	116	0.01	ng	0.01
23) Nitrobenzene-d5	0.00	82	0	0.00	ng	
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.17	172	267	0.01	ng	0.00
78) Terphenyl-d14	12.92	244	1021	0.08	ng	-0.01

Target Compounds

						Qvalue
10) Phenol	6.48	94	72323	4.496	ng	95
20) 3+4-Methylphenols	7.25	107	39199	3.371	ng	87
31) Naphthalene	8.12	128	2457135	73.735	ng	99
37) 2-Methylnaphthalene	8.81	142	311176	14.333	ng	98
45) 1,1'-Biphenyl	9.27	154	89155	3.399	ng	98
48) Acenaphthylene	9.72	152	259602	8.190	ng	99
54) Dibenzofuran	10.06	168	325577	13.453	ng	99
57) Fluorene	10.40	166	339588	16.587	ng	100
70) Phenanthrene	11.37	178	1117590	39.351	ng	100
71) Anthracene	11.42	178	330312	11.386	ng	99
72) Carbazole	11.58	167	160594	5.913	ng	98
74) Fluoranthene	12.56	202	724091	24.290	ng	98
77) Pylene	12.79	202	552196	22.556	ng	99
80) Benzo(a)anthracene	13.98	228	232068	10.774	ng	98
82) Chrysene	14.02	228	187552	9.222	ng	99
85) Indeno(1,2,3-cd)pyrene	16.94	276	74823	4.132	ng	94
87) Benzo(b)fluoranthene	15.04	252	190747m	9.469	ng	
88) Benzo(k)fluoranthene	15.06	252	83535m	4.265	ng	
89) Benzo(a)pyrene	15.40	252	164820	8.876	ng	97
91) Benzo(a,h,i)perylene	17.40	276	64114	4.061	ng	98

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

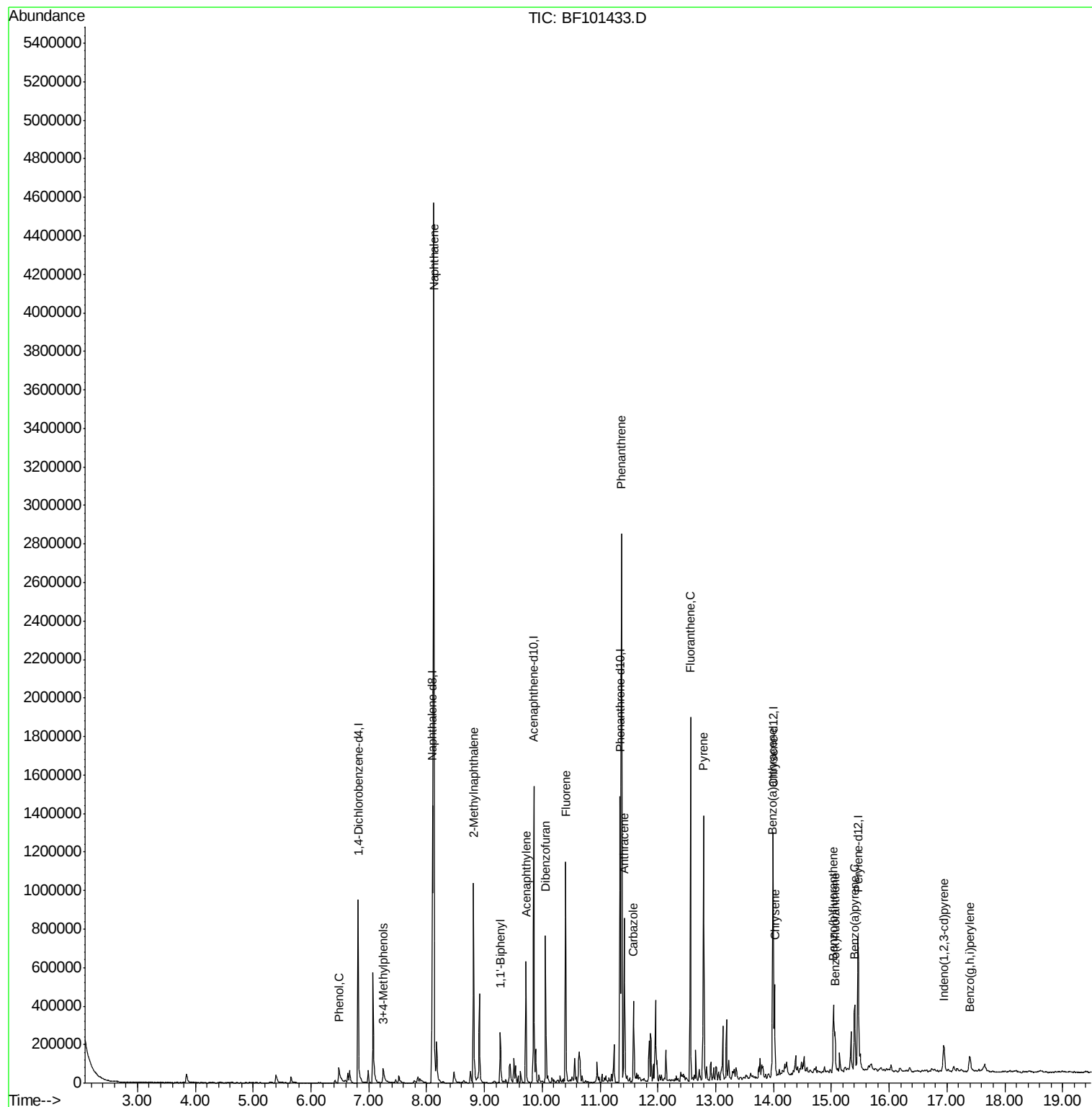
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121417\
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#1

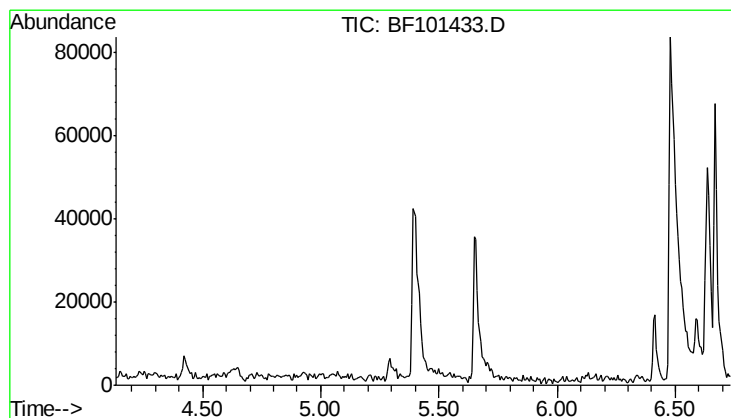
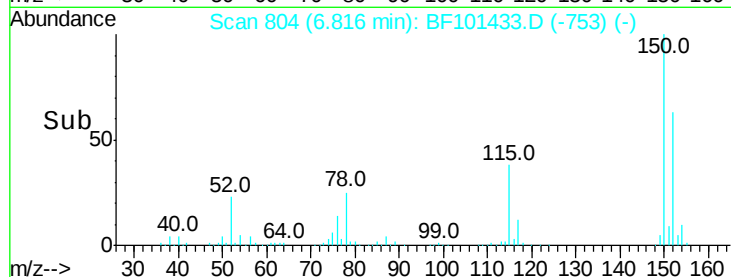
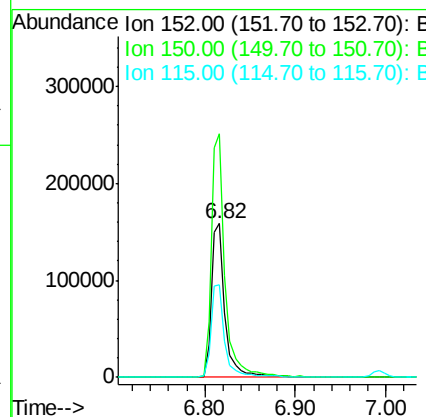
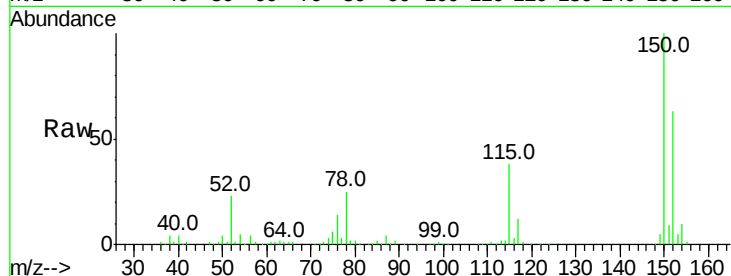
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.82 min Scan# 804
Delta R.T. -0.00 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleId :
WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	124.6	186.8
115	60.0	50.1	75.1

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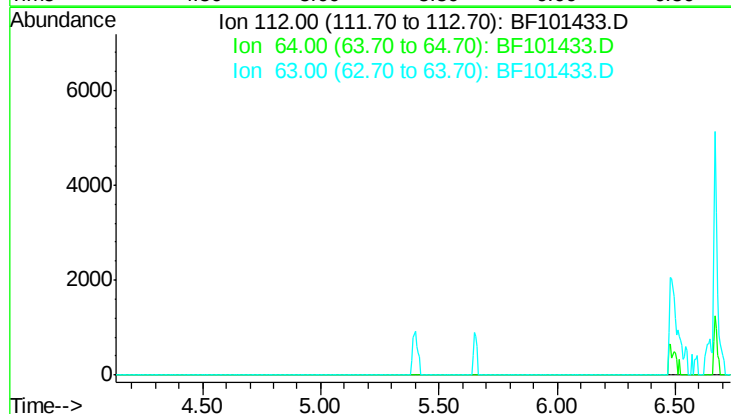


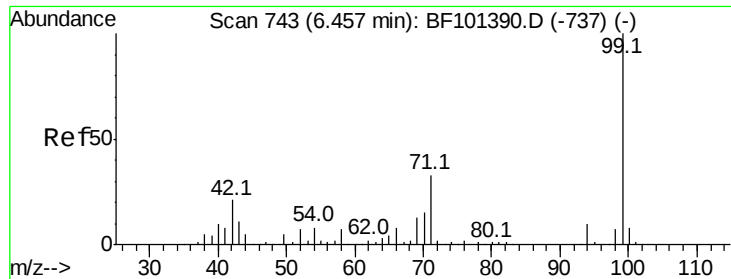
#5

2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.43 min

Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Exp Ratio
112	100
64	59.9
63	29.6





#7

Phenol-d6

Concen: 0.008 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Instrument :

BNA_F

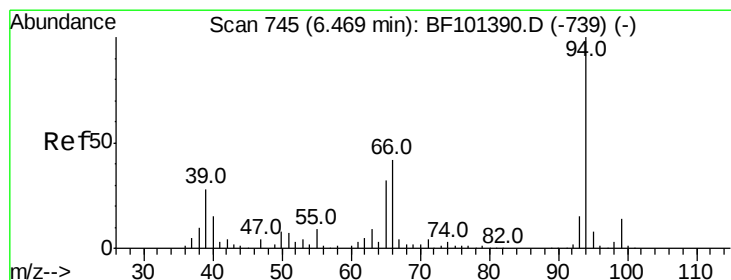
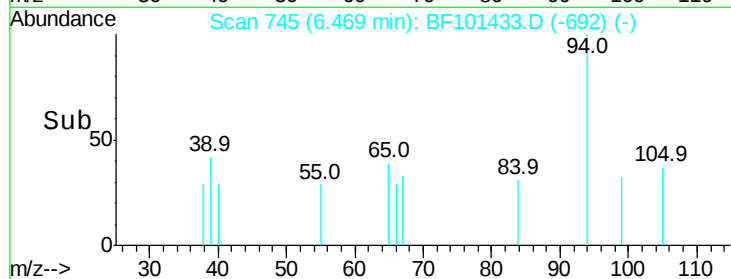
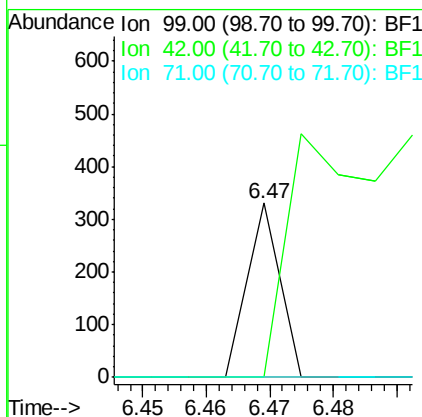
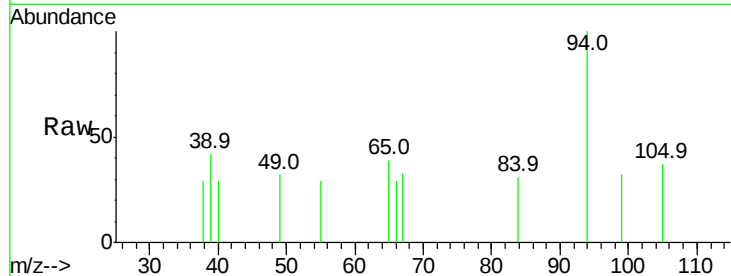
ClientSampleId :

WC-7317-01DL

Tot Ion:	99	Resp:	116
Ion Ratio	Lower	Upper	
99	100		
42	0.0	14.5	21.7#
71	0.0	25.4	38.0#

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#10

Phenol

Concen: 4.496 ng

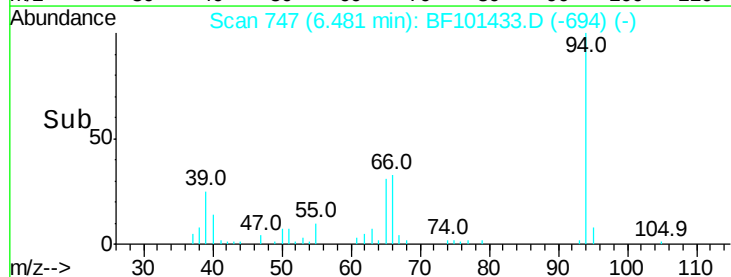
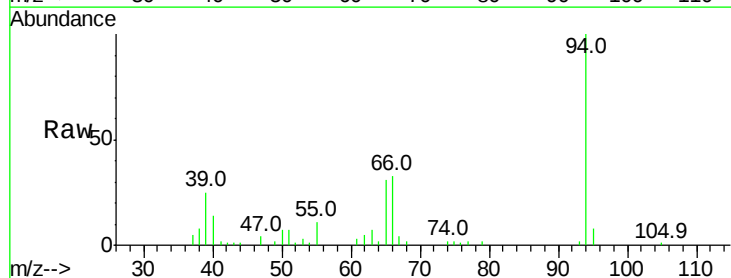
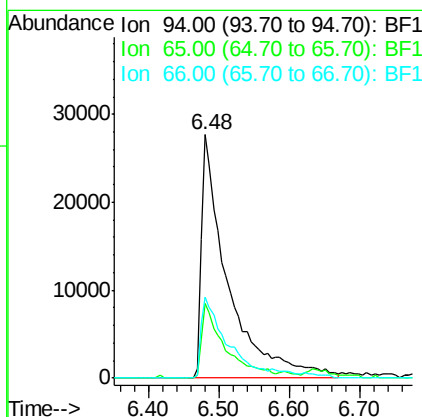
RT: 6.48 min Scan# 747

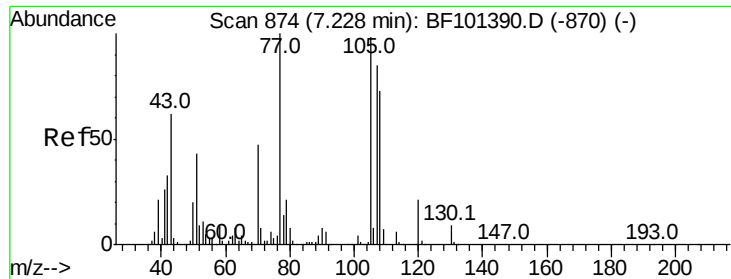
Delta R.T. 0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Tgt Ion:	94	Resp:	72323
Ion Ratio	Lower	Upper	
94	100		
65	30.8	7.9	47.9
66	33.4	16.2	56.2





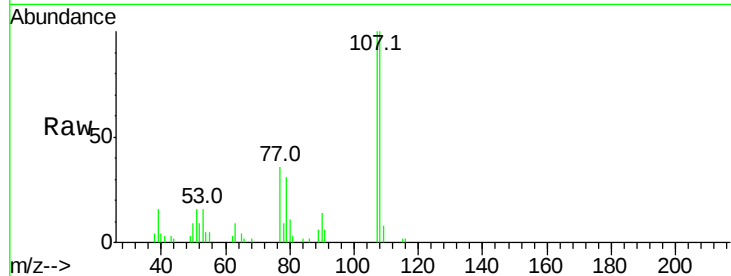
#20
3+4-Methylphenols
Concen: 3.371 ng
RT: 7.25 min Scan# 877
Delta R.T. 0.02 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleID :
WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
107	100		
108	99.6	68.2	108.2
77	36.0	26.7	66.7
79	31.1	6.3	46.3

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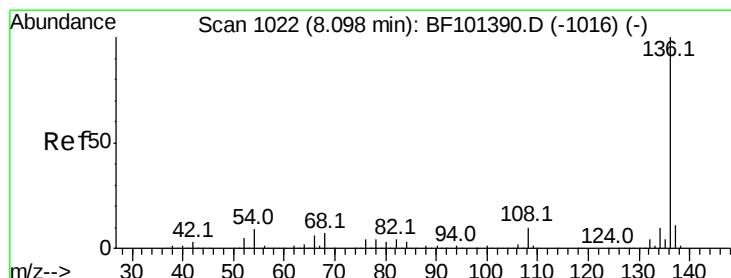
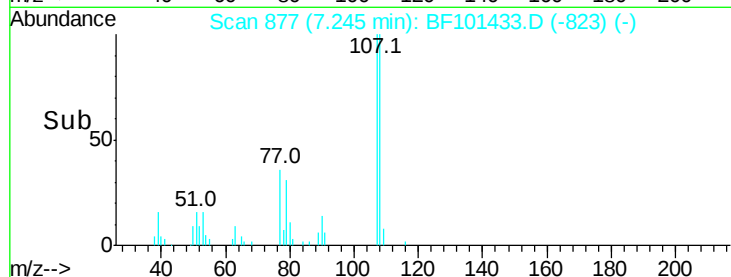
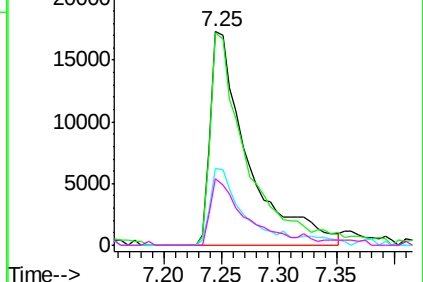
Abundance

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: 8.10 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	9.1	6.6	9.8
68	6.7	5.0	7.4

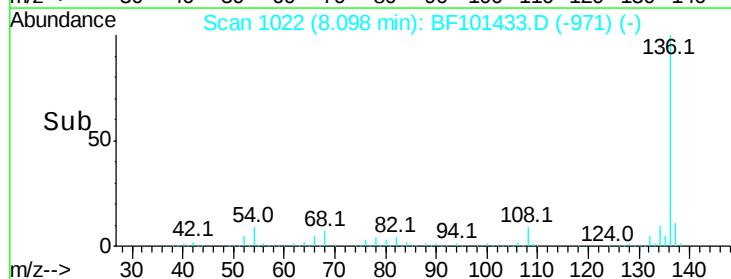
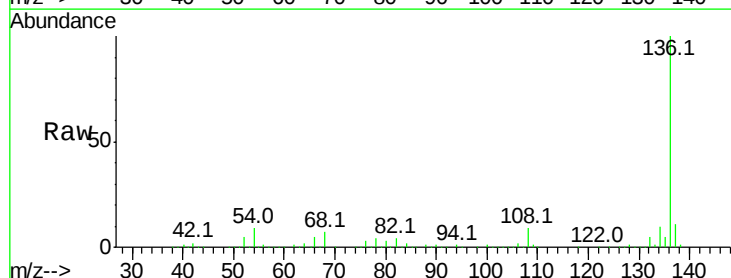
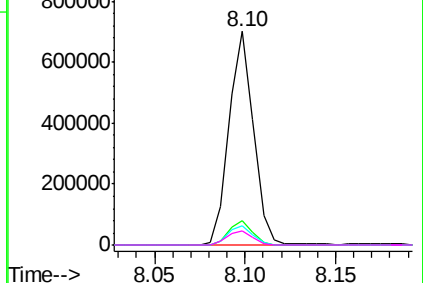
Abundance

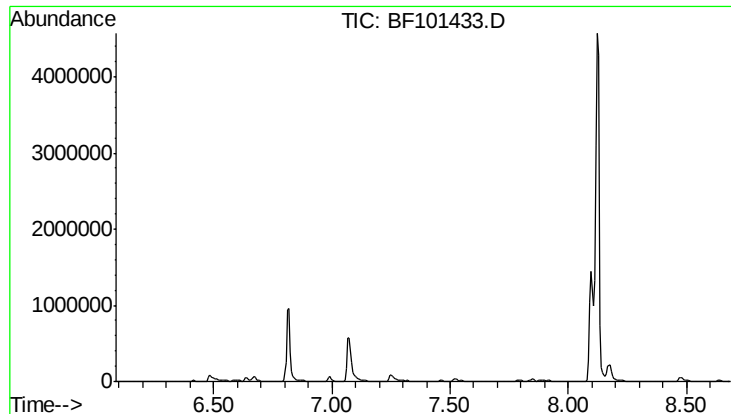
Ion 136.00 (135.70 to 136.70): E

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: 0.000 ng
Expected RT: 7.39 min

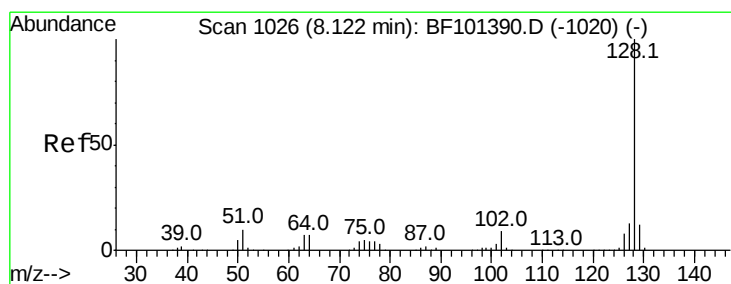
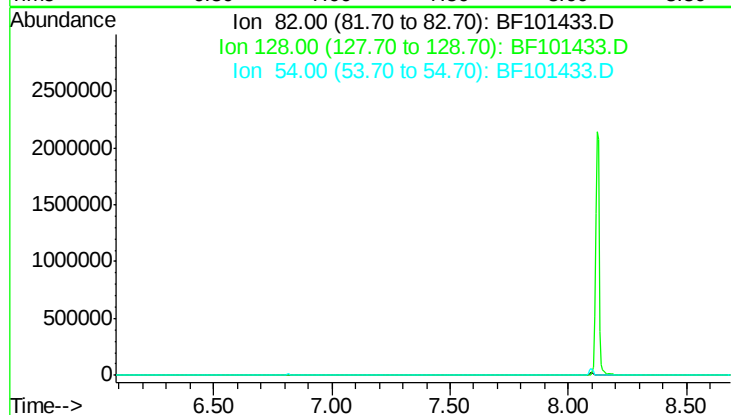
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleId :
WC-7317-01DL

Tot Ion: 82
Sig Exp Ratio
82 100
128 45.1
54 51.8

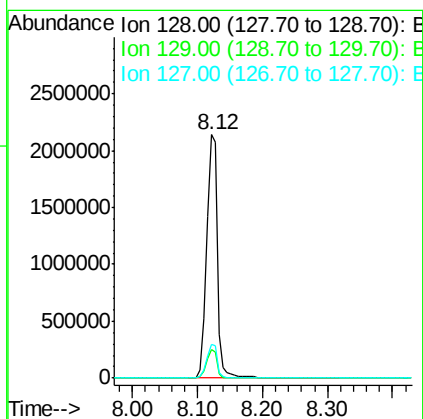
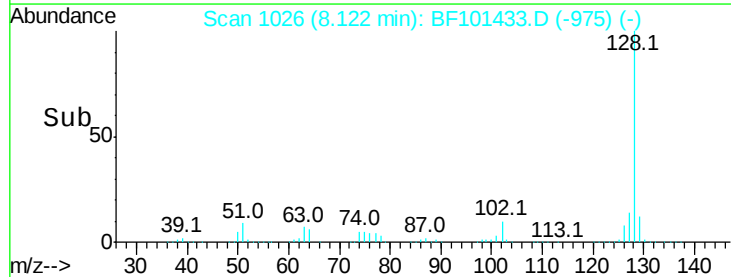
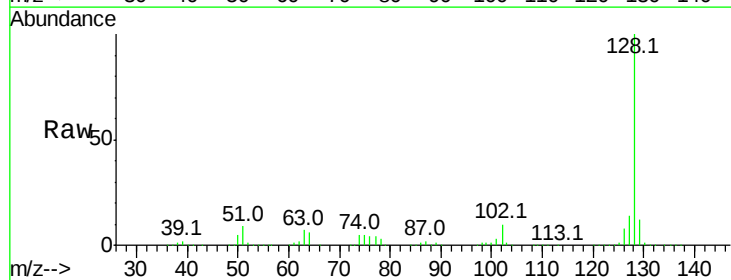
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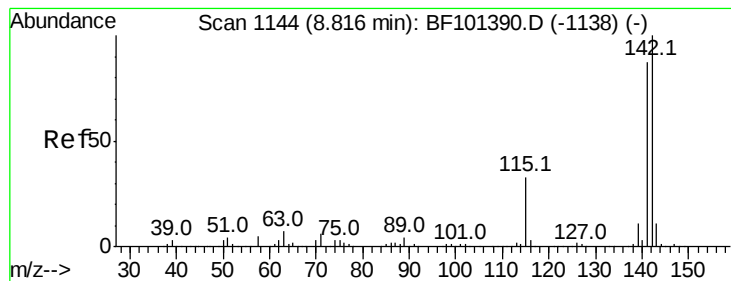
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#31
Naphthalene
Concen: 73.735 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.00 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion:128 Resp: 2457135
Ion Ratio Lower Upper
128 100
129 11.7 8.8 13.2
127 13.9 10.9 16.3





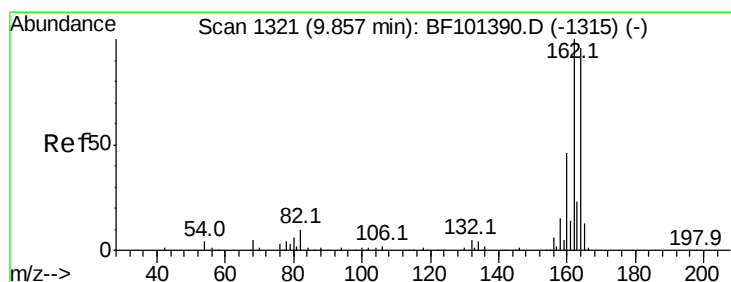
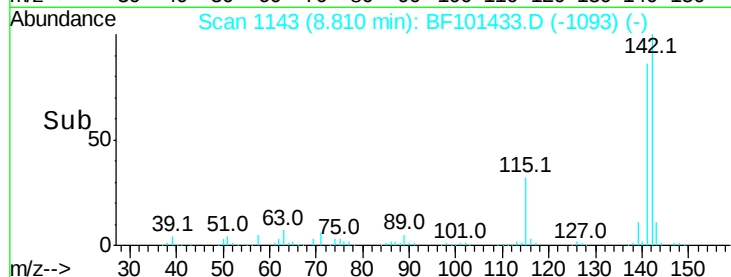
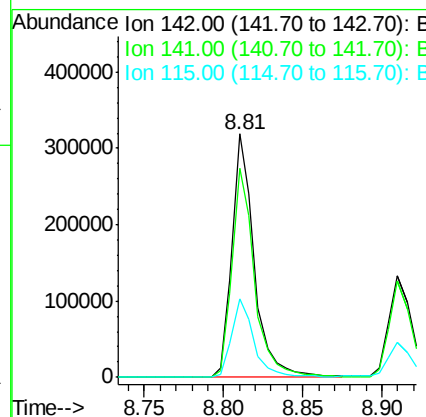
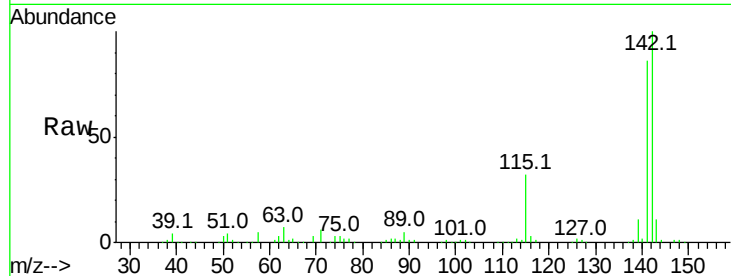
#37
2-Methylnaphthalene
Concen: 14.333 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleId :
WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.9	70.8	106.2
115	32.0	26.1	39.1

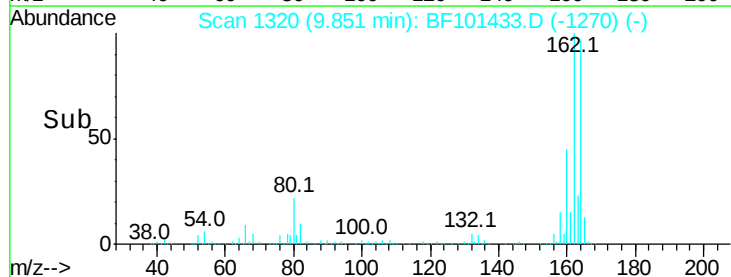
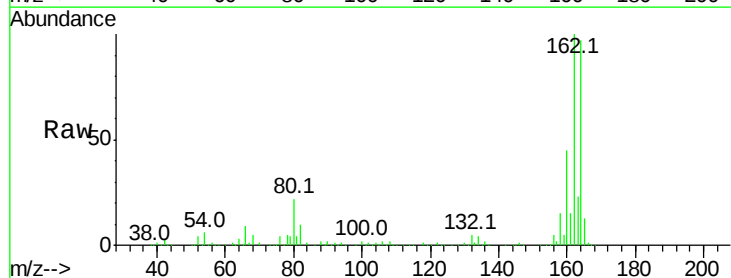
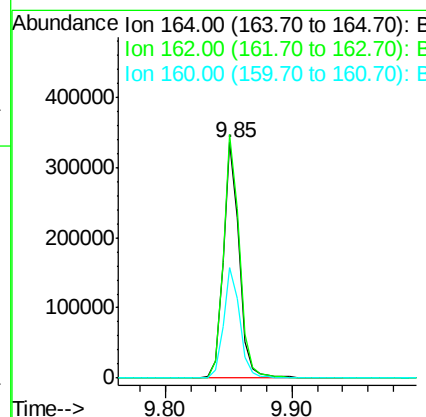
Manual Integrations
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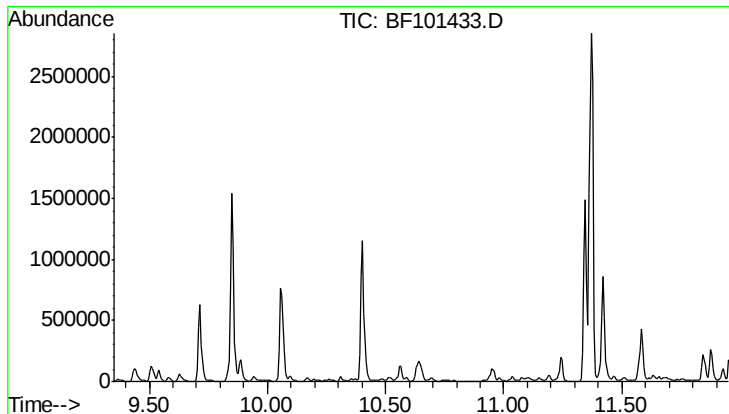
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	86.1	129.1
160	47.0	38.3	57.5





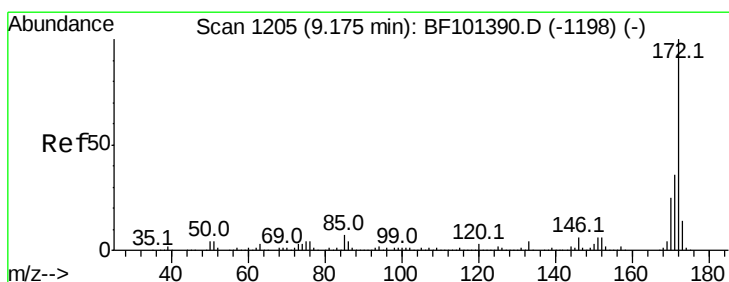
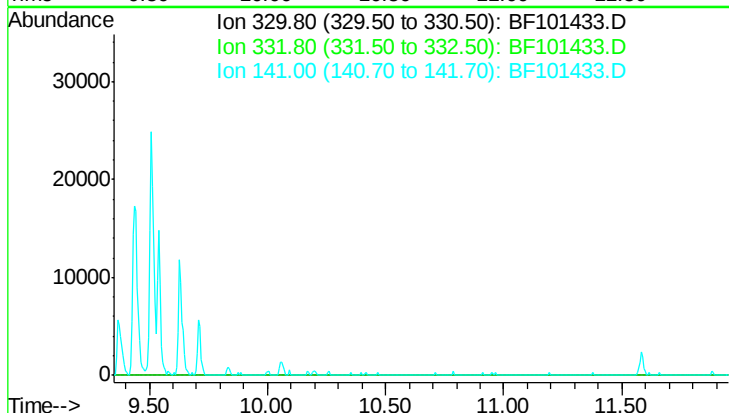
#41
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.65 min
 Lab File: BF101433.D
 Acq: 15 Dec 2017 9:44

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-01DL

Tot Ion	330	332	141
Exp Ratio	100	96.3	37.4

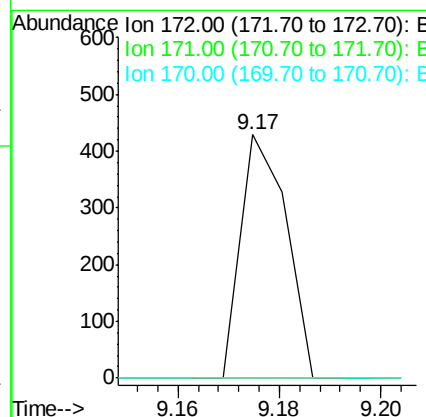
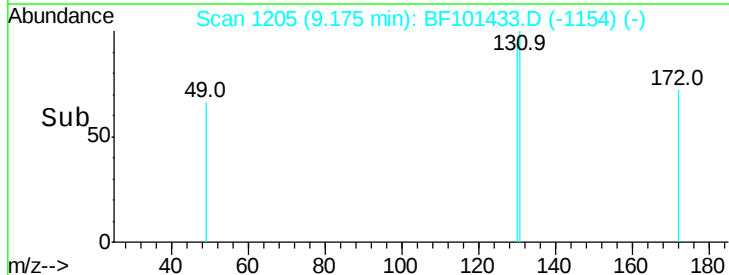
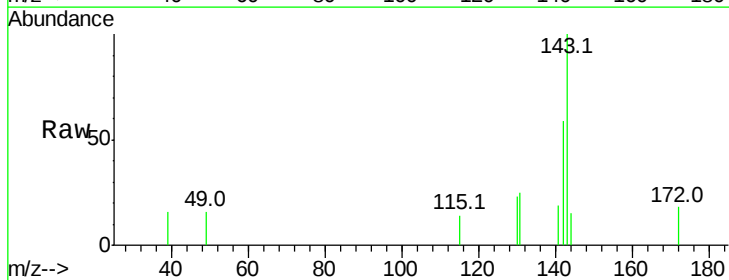
Manual Integrations
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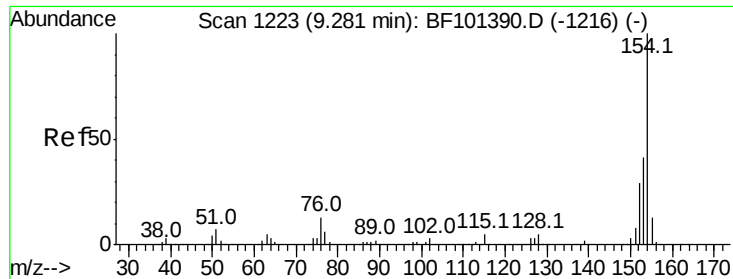
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#44
 2-Fluorobiphenyl
 Concen: 0.014 ng
 RT: 9.17 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: BF101433.D
 Acq: 15 Dec 2017 9:44

Tgt Ion	172	Resp	267
Ion Ratio	100	Lower	Upper
171	0.0	29.7	44.5#
170	0.0	19.6	29.4#





#45

1,1'-Biphenyl

Concen: 3.399 ng

RT: 9.27 min Scan# 1222

Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Instrument :

BNA_F

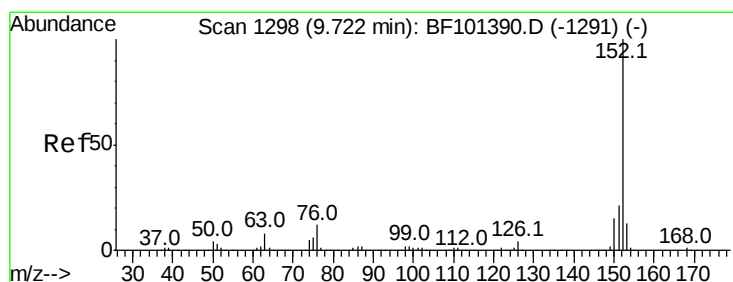
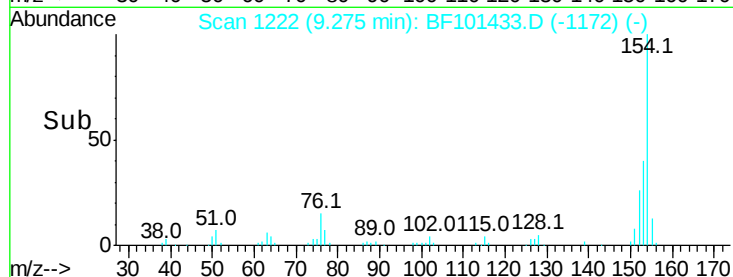
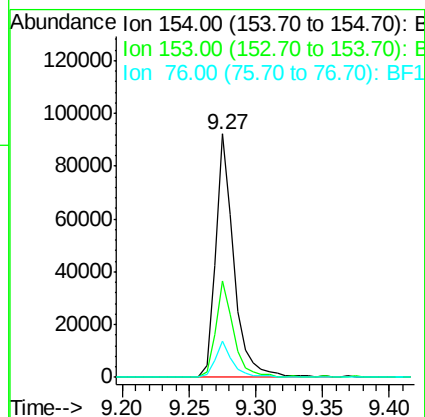
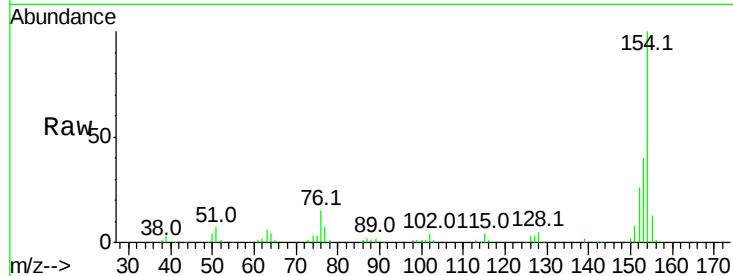
ClientSampleId :

WC-7317-01DL

Tot Ion:	154	Resp:	89155
Ion Ratio	Lower	Upper	
154	100		
153	39.8	21.3	61.3
76	14.8	0.0	34.0

Manual Integrations
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#48

Acenaphthylene

Concen: 8.190 ng

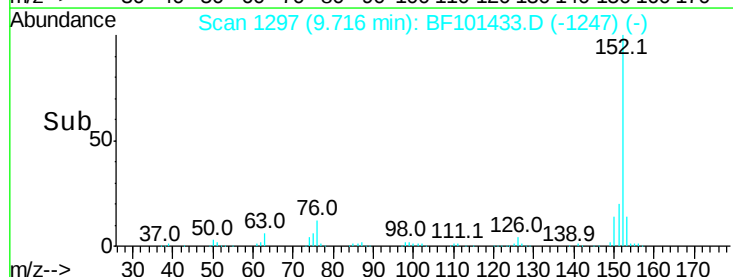
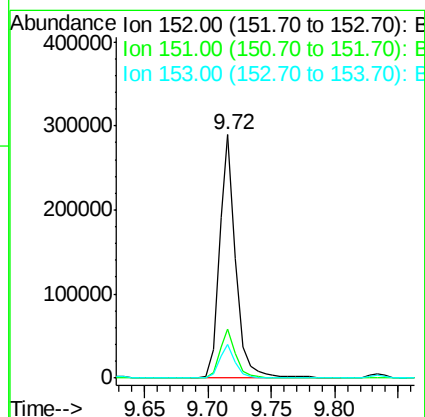
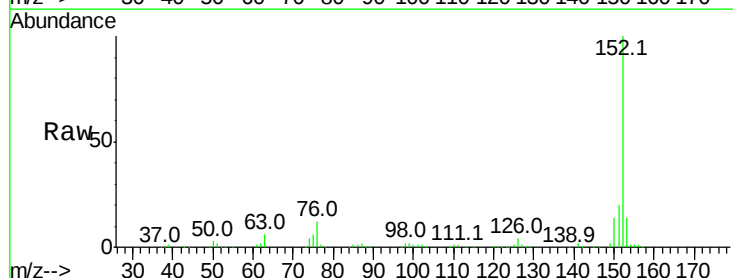
RT: 9.72 min Scan# 1297

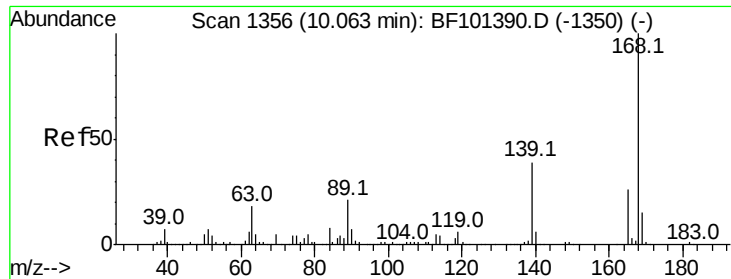
Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Tgt Ion:	152	Resp:	259602
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.8	10.7	16.1





#54

Dibenzenofuran

Concen: 13.453 ng

RT: 10.06 min Scan# 1355

Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Instrument :

BNA_F

ClientSampleId :

WC-7317-01DL

Tot Ion:168 Resp: 325577

Ion Ratio Lower Upper

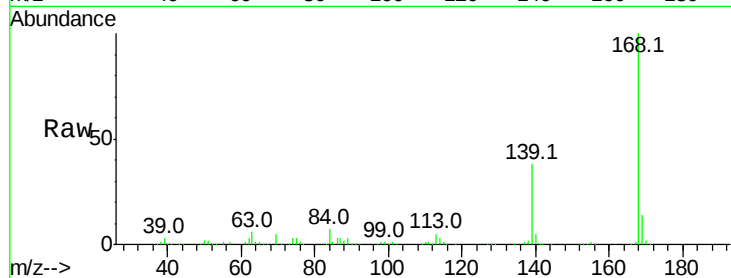
168 100

139 38.2 30.1 45.1

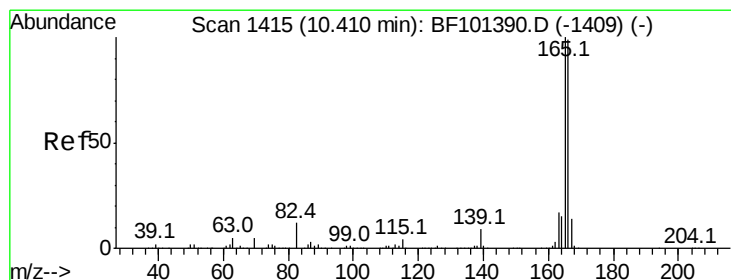
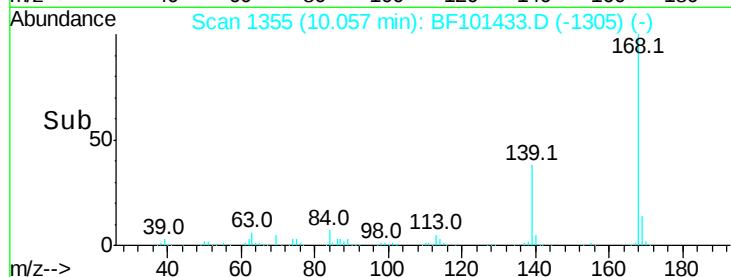
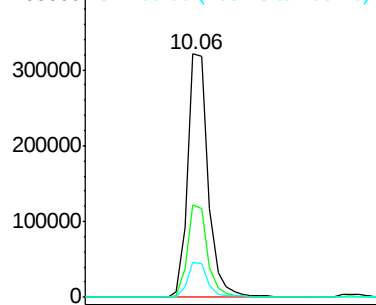
169 14.4 10.9 16.3

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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: 16.587 ng

RT: 10.40 min Scan# 1414

Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

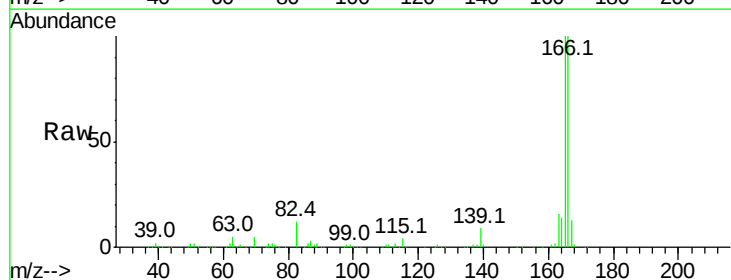
Tgt Ion:166 Resp: 339588

Ion Ratio Lower Upper

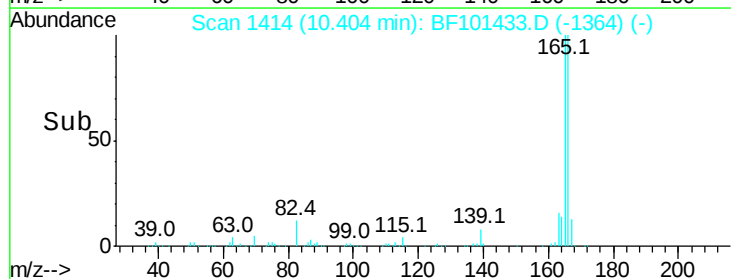
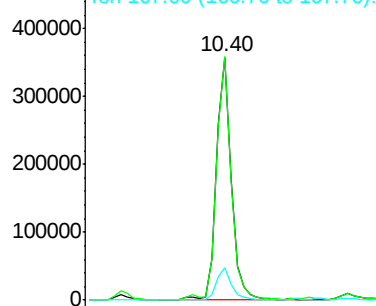
166 100

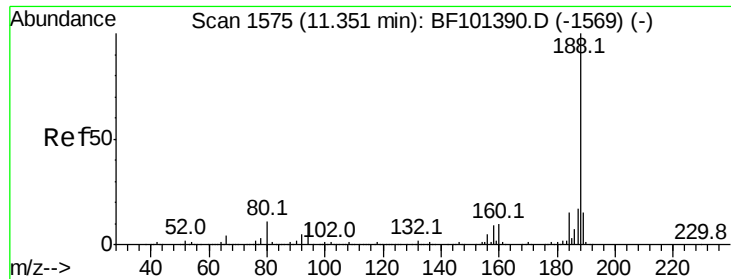
165 100.3 79.8 119.8

167 13.2 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





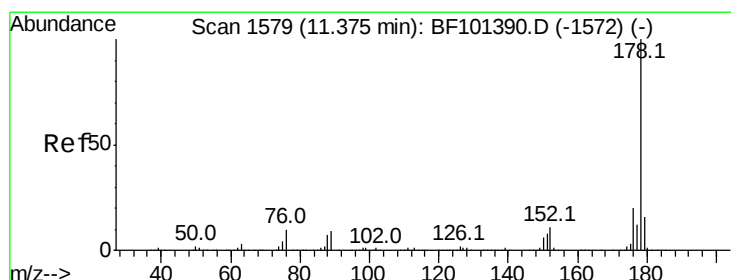
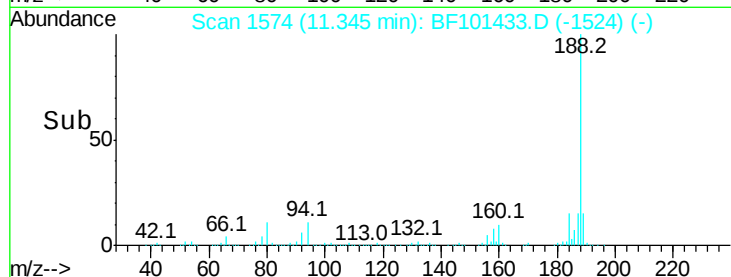
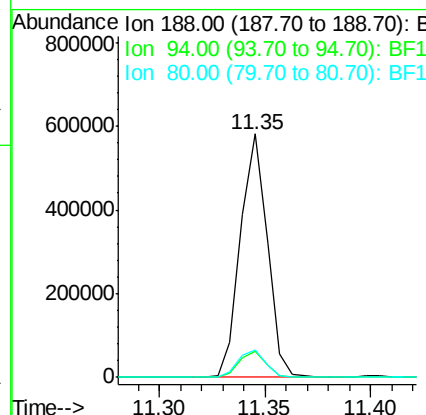
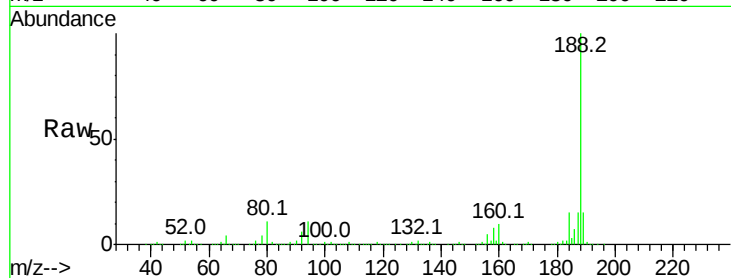
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.35 min Scan# 1574
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleId :
WC-7317-01DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	510691		
94	10.7		8.5	12.7
80	11.2		9.2	13.8

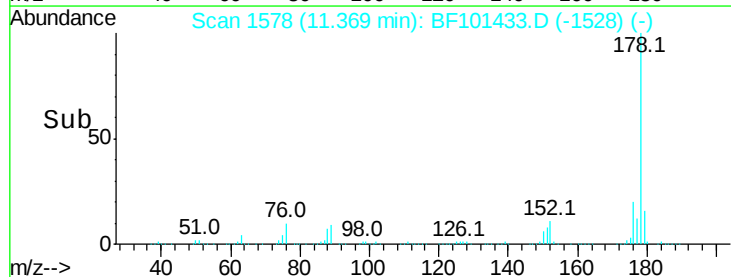
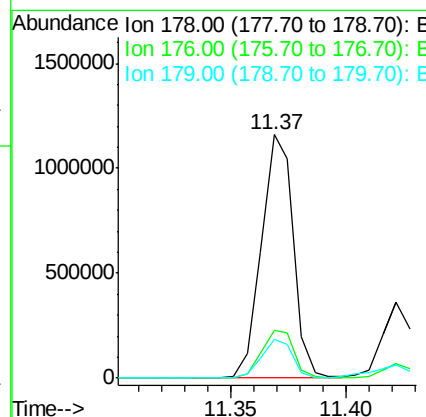
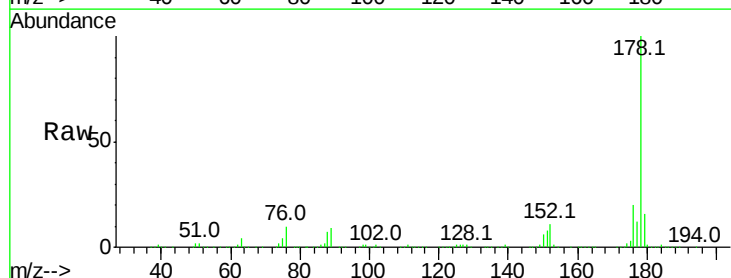
Manual Integrations
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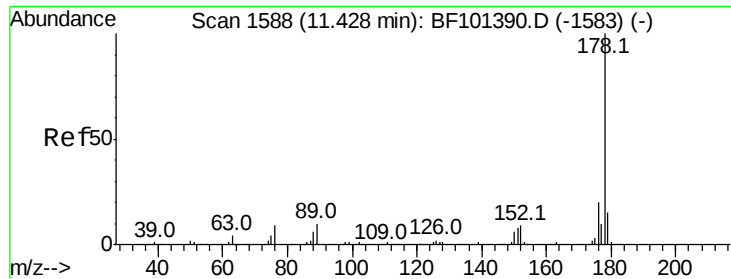
Sohil
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#70
Phenanthrene
Concen: 39.351 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1117590		
176	19.7		15.8	23.8
179	16.0		13.0	19.6





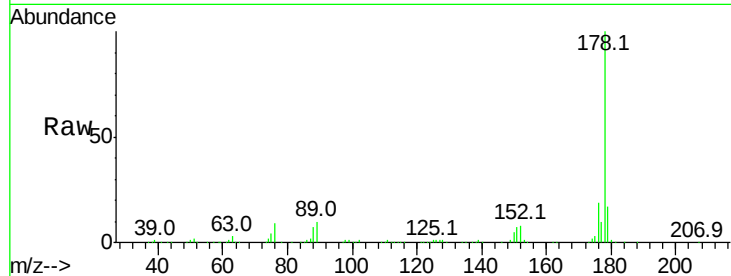
#71
 Anthracene
 Concen: 11.386 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: BF101433.D
 Acq: 15 Dec 2017 9:44

Instrument :
 BNA_F
 ClientSampleId :
 WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	16.8	12.6	19.0

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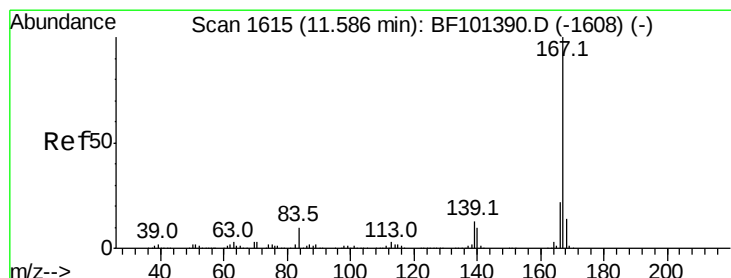
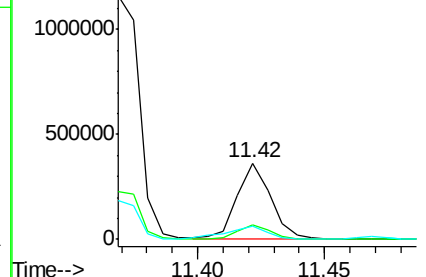
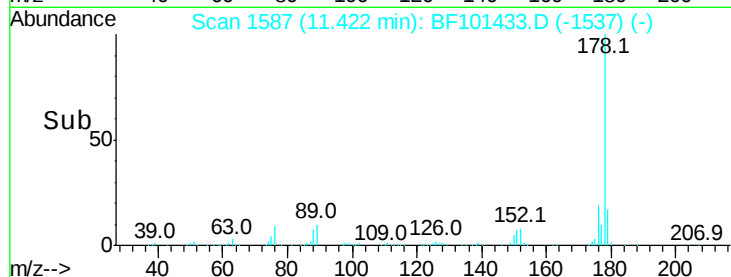


Abundance

Ion 178.00 (177.70 to 178.70): E

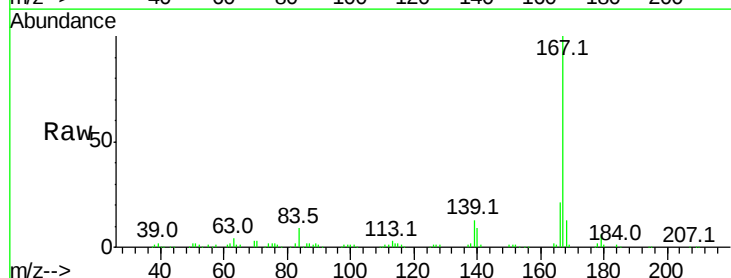
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
 Carbazole
 Concen: 5.913 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF101433.D
 Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.6	26.4
139	12.7	10.9	16.3

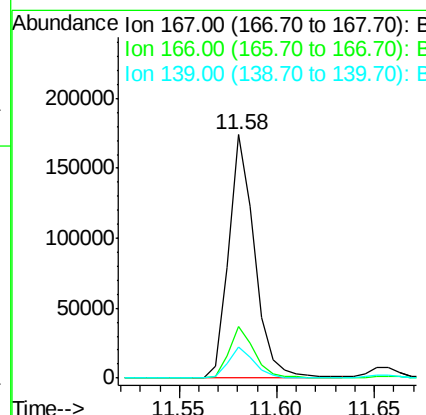
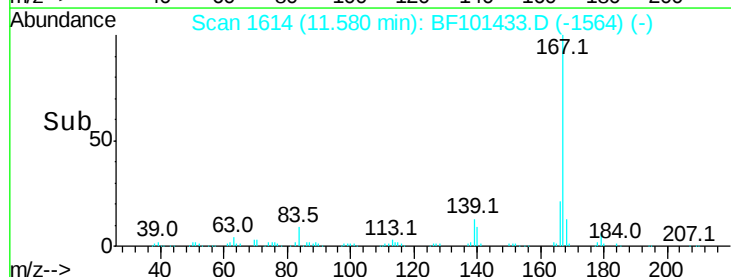


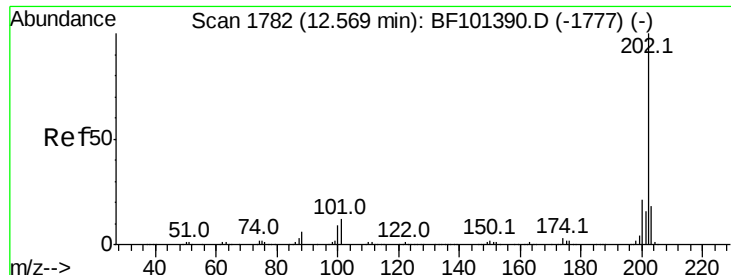
Abundance

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: 24.290 ng

RT: 12.56 min Scan# 1781

Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Instrument :

BNA_F

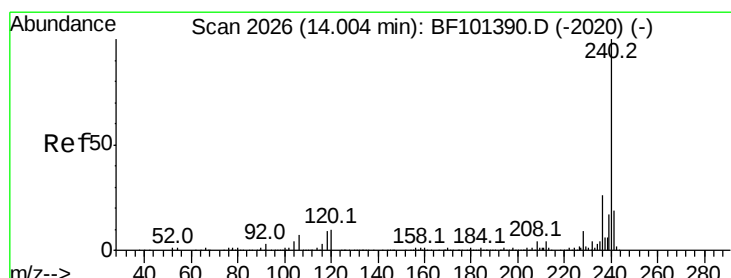
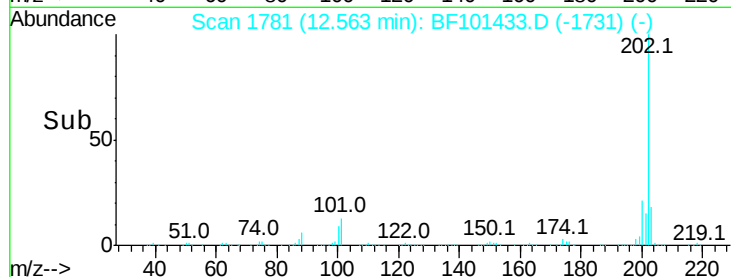
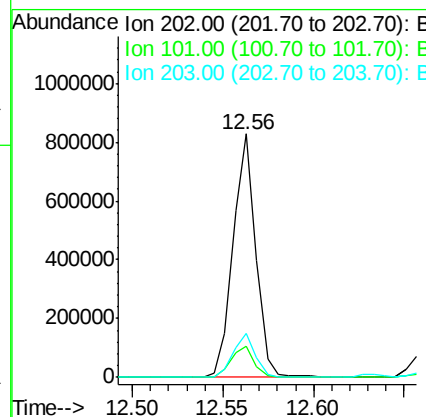
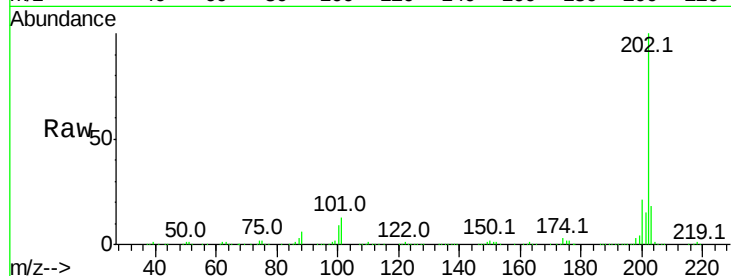
ClientSampleID :

WC-7317-01DL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	724091		
101	12.5	0.0	34.1	
203	17.8	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.000 ng

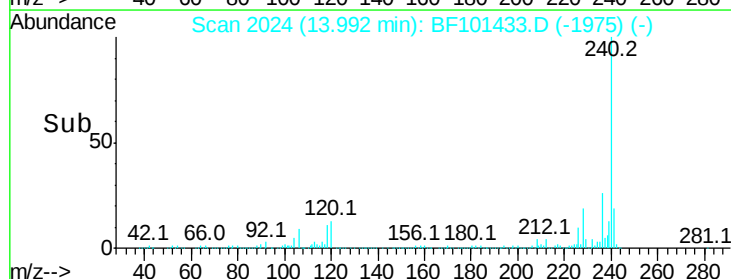
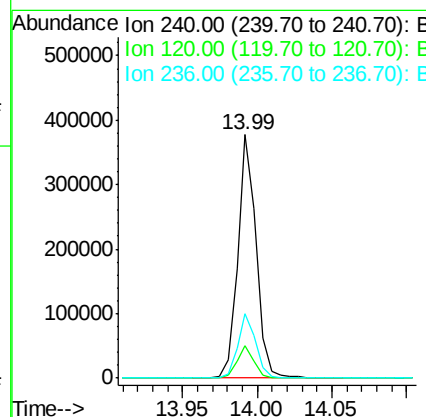
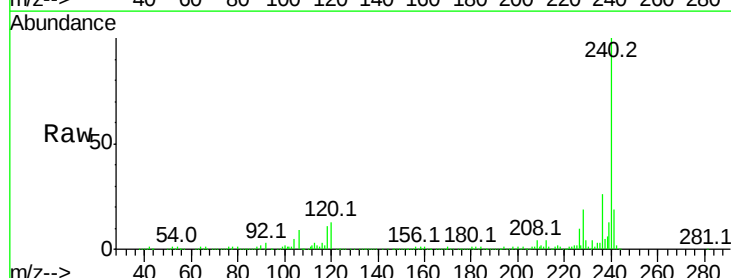
RT: 13.99 min Scan# 2024

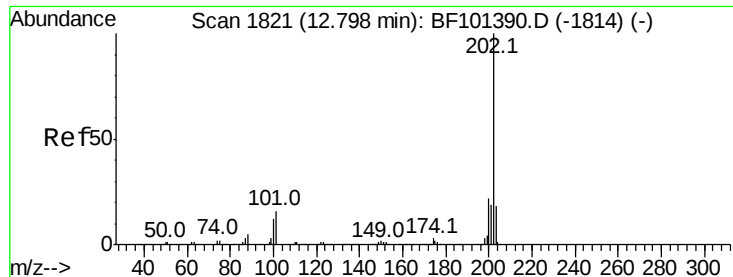
Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	326196		
120	13.2	9.5	14.3	
236	26.3	20.7	31.1	





#77

Pvrene

Concen: 22.556 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Instrument :

BNA_F

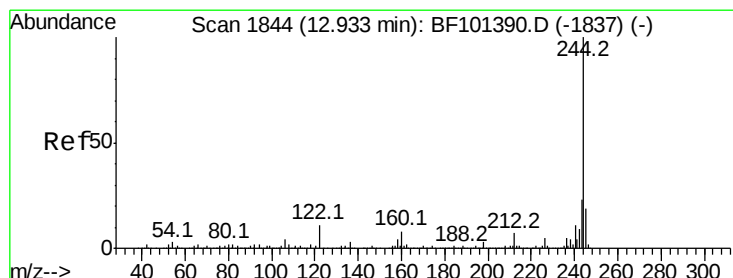
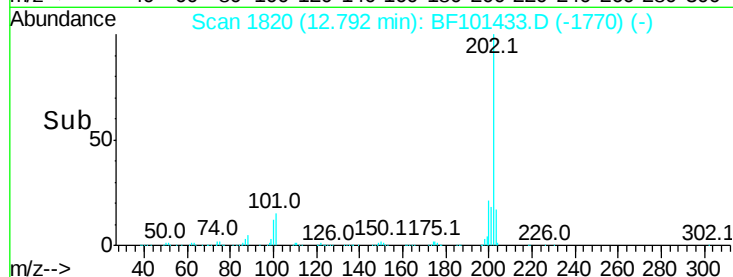
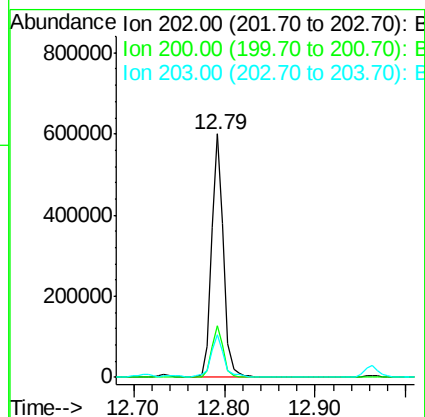
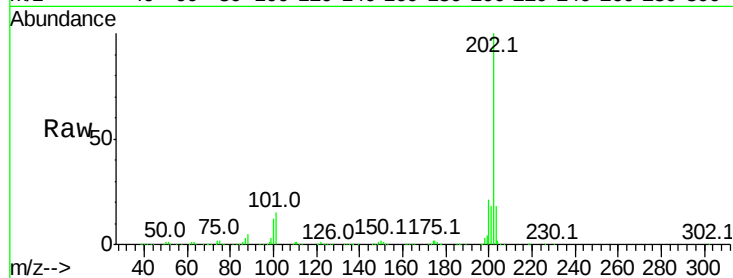
ClientSampleId :

WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.6	14.3	21.5

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#78

Terphenyl-d14

Concen: 0.075 ng

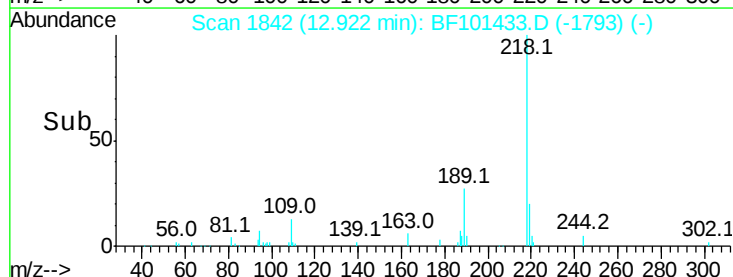
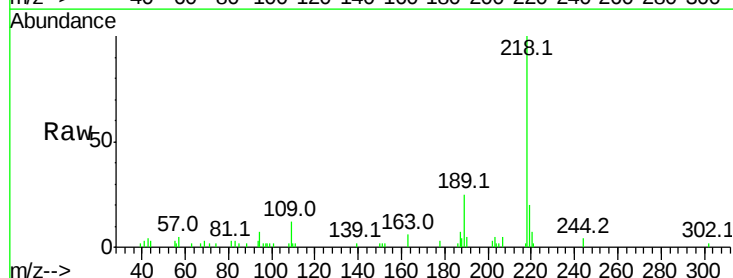
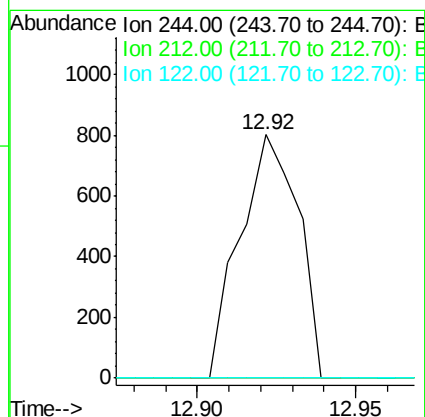
RT: 12.92 min Scan# 1842

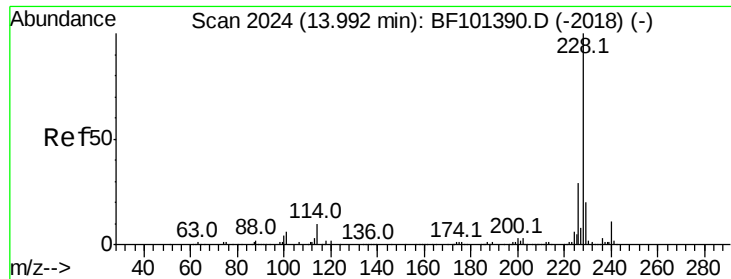
Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
244	100		
212	0.0	5.4	8.0#
122	0.0	11.0	16.4#





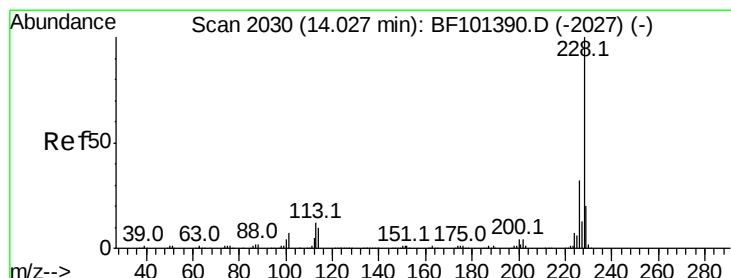
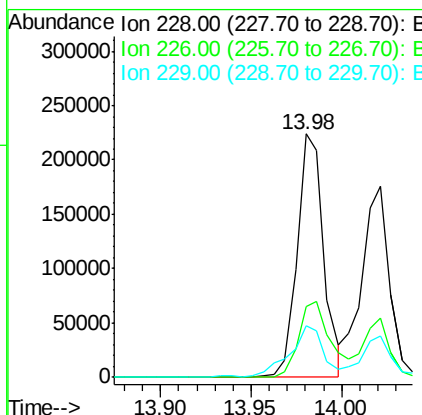
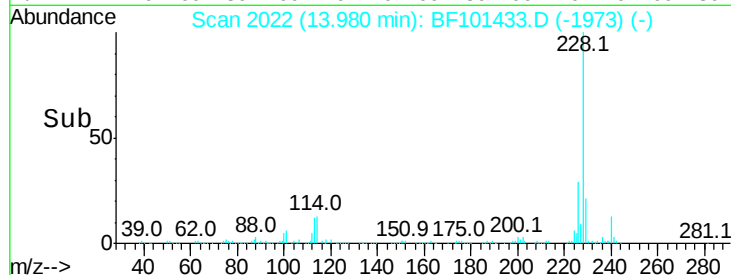
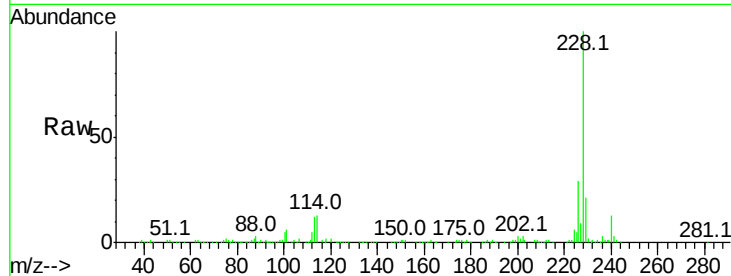
#80
Benzo(a)anthracene
Concen: 10.774 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleId :
WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	21.0	15.8	23.6

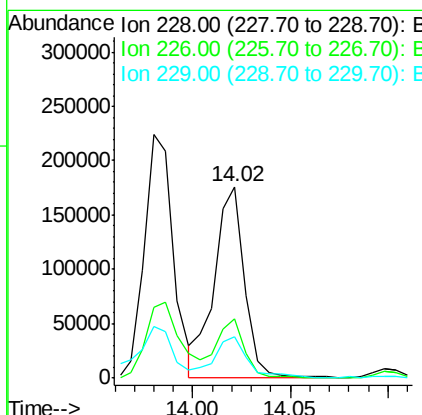
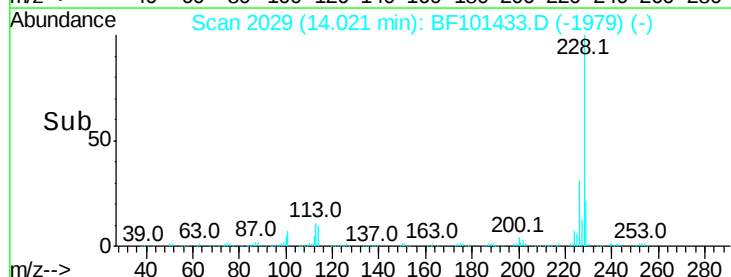
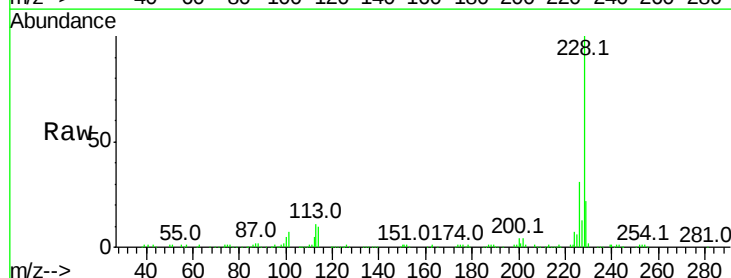
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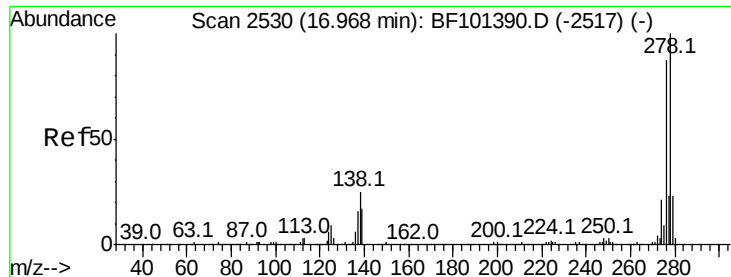
Sohil
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#82
Chrysene
Concen: 9.222 ng
RT: 14.02 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.6
229	21.7	16.2	24.4





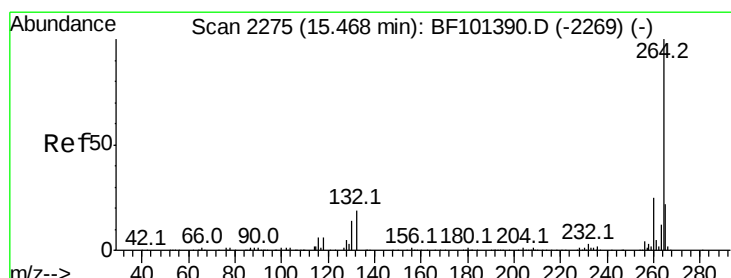
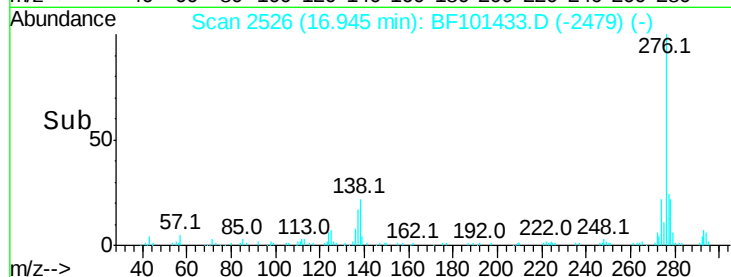
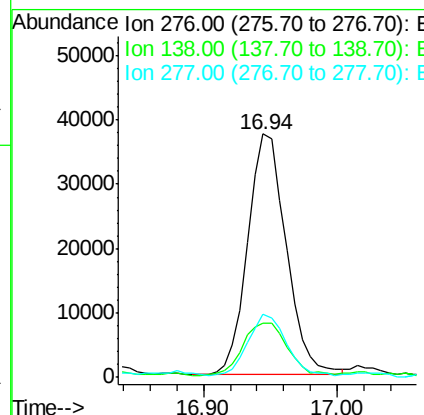
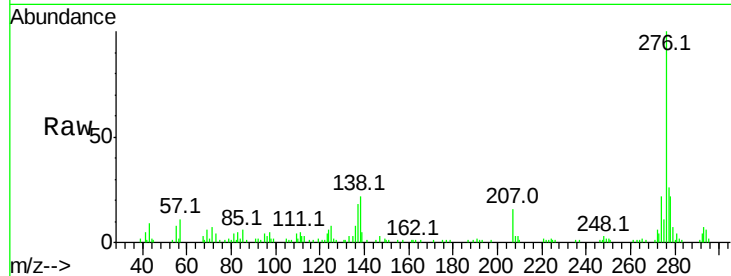
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.132 ng
RT: 16.94 min Scan# 2526
Delta R.T. -0.02 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleID :
WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.6	25.0	37.6
277	24.6	20.1	30.1

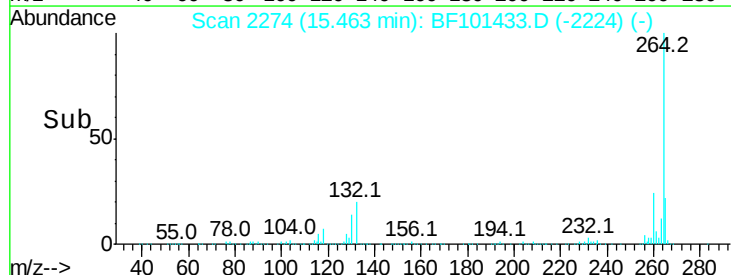
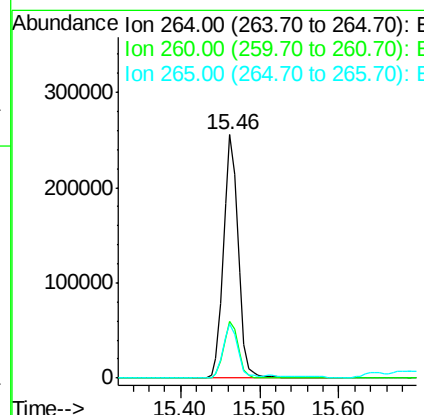
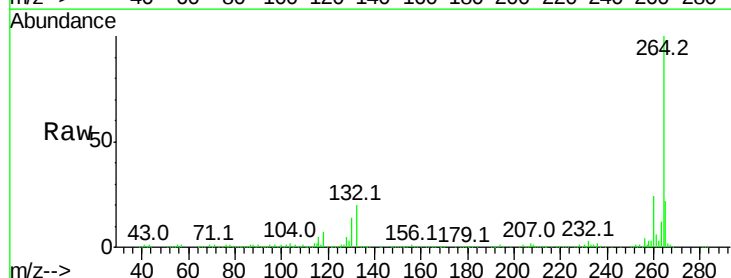
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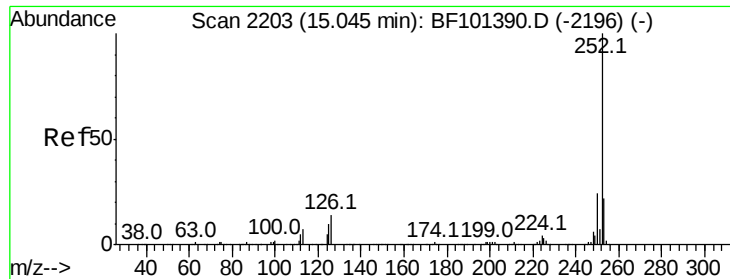
Sohil
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2274
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.3	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 9.469 ng m

RT: 15.04 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Instrument :

BNA_F

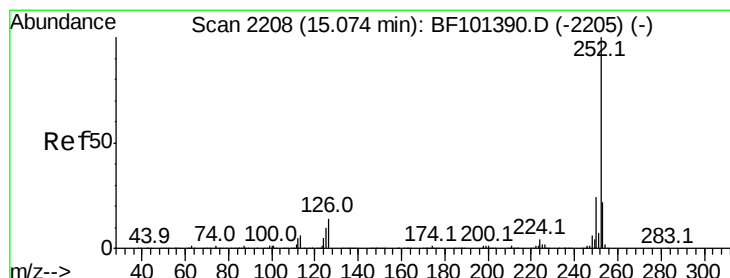
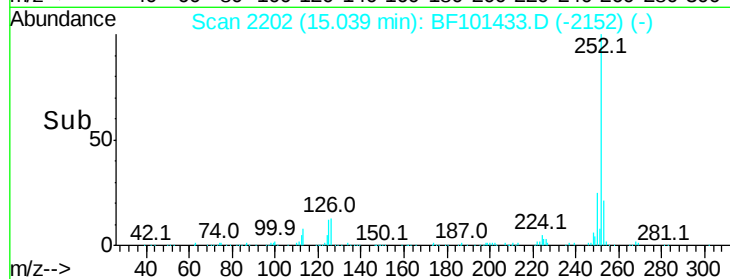
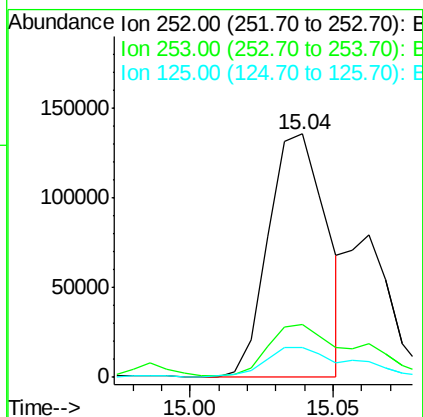
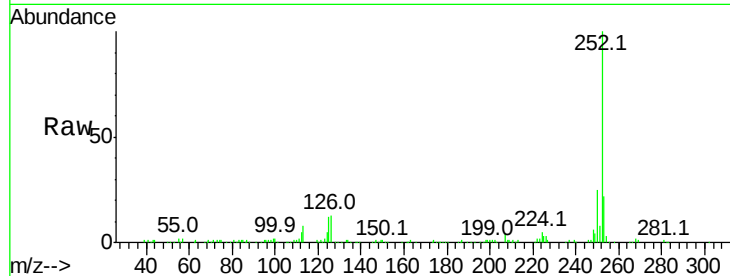
ClientSampleId :

WC-7317-01DL

Tot Ion:252	Resp:	190747
Ion Ratio	Lower	Upper
252	100	
253	21.9	17.0 25.6
125	12.4	9.0 13.6

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 4.265 ng m

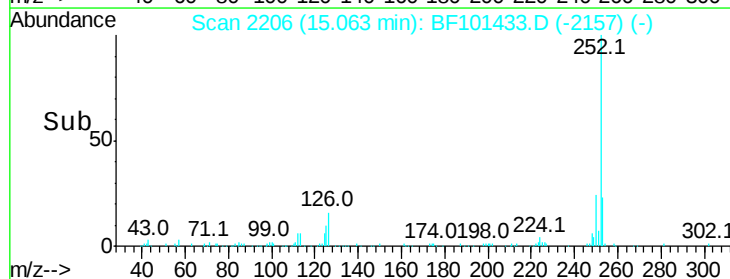
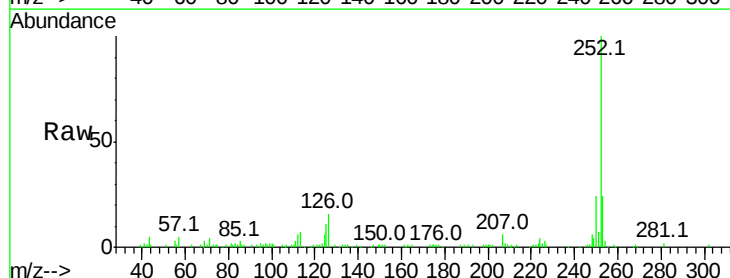
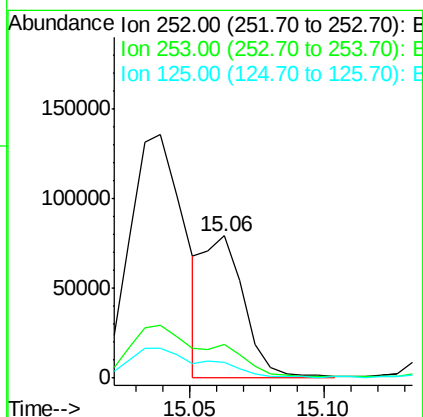
RT: 15.06 min Scan# 2206

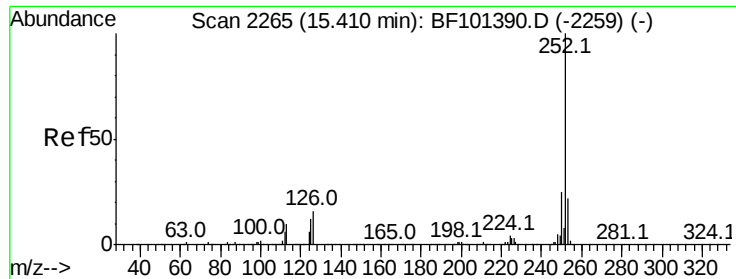
Delta R.T. -0.01 min

Lab File: BF101433.D

Acq: 15 Dec 2017 9:44

Tgt Ion:252	Resp:	83535
Ion Ratio	Lower	Upper
252	100	
253	23.5	17.9 26.9
125	11.1	10.2 15.2





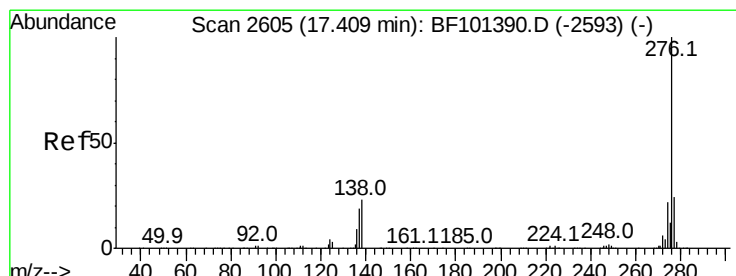
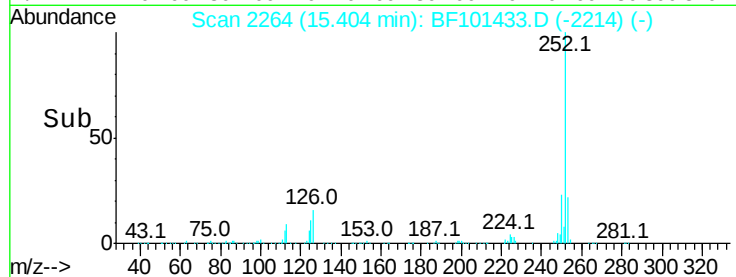
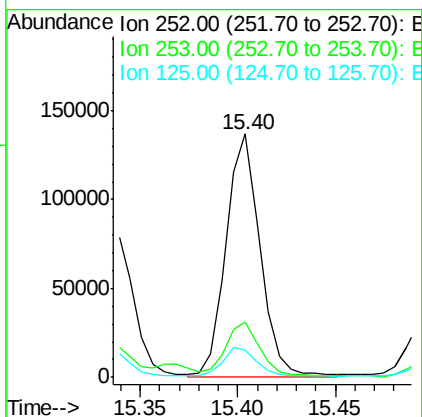
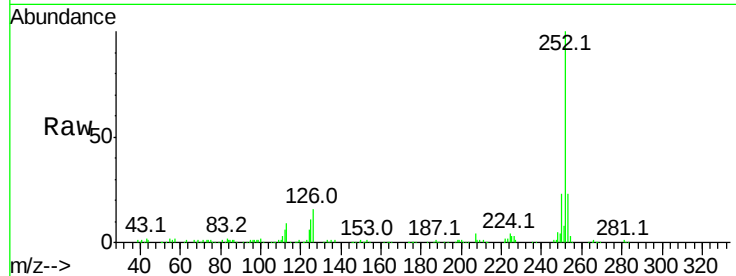
#89
Benzo(a)pyrene
Concen: 8.876 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Instrument :
BNA_F
ClientSampleId :
WC-7317-01DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	11.2	9.8	14.6

Manual Integrations
APPROVED

Sohil
12/15/2017 6:45:26 PM



#91
Benzo(g,h,i)perylene
Concen: 4.061 ng
RT: 17.40 min Scan# 2603
Delta R.T. -0.01 min
Lab File: BF101433.D
Acq: 15 Dec 2017 9:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	17.9	26.9
138	27.3	21.8	32.8

