

Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
 Data File : BF102011.D
 Acq On : 11 Jan 2018 11:23
 Operator : SJ/JU
 Sample : J1076-18 20X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-01

Manual Integrations
 APPROVED

Sohil
 1/12/2018 10:36:58 AM

Quant Time: Jan 11 13:35:40 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	221452	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	923785	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	402929	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	658829	20.00	ng	0.00
75) Chrysene-d12	13.87	240	355337	20.00	ng	0.00
86) Perylene-d12	15.29	264	347355	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.32	112	19668	1.25	ng	0.00
7) Phenol-d6	6.35	99	24686	1.32	ng	0.00
23) Nitrobenzene-d5	7.28	82	13792	0.88	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	4264	1.21	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	29985	1.16	ng	-0.01
78) Terphenyl-d14	12.82	244	23604	1.38	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.03	128	1120369	24.271	ng	99
37) 2-Methylnaphthalene	8.72	142	282205	9.287	ng	99
48) Acenaphthylene	9.62	152	349204	7.967	ng	99
54) Dibenzofuran	9.96	168	228754	6.266	ng	100
57) Fluorene	10.30	166	337949	13.390	ng	98
70) Phenanthrene	11.27	178	1559706	40.528	ng	99
71) Anthracene	11.32	178	477218	12.227	ng	99
72) Carbazole	11.47	167	118229	3.082	ng	98
74) Fluoranthene	12.46	202	1520320	40.153	ng	99
77) Pyrene	12.69	202	1388986	44.222	ng	99
80) Benzo(a)anthracene	13.86	228	565638m	24.949	ng	
82) Chrysene	13.90	228	499647	21.135	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	315120	18.314	ng	99
87) Benzo(b)fluoranthene	14.89	252	542141m	23.937	ng	
88) Benzo(k)fluoranthene	14.92	252	229750m	10.516	ng	
89) Benzo(a)pyrene	15.23	252	460968	22.618	ng	# 94
90) Dibenzo(a,h)anthracene	16.67	278	80621m	4.957	ng	
91) Benzo(g,h,i)perylene	17.09	276	310952	18.980	ng	96

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

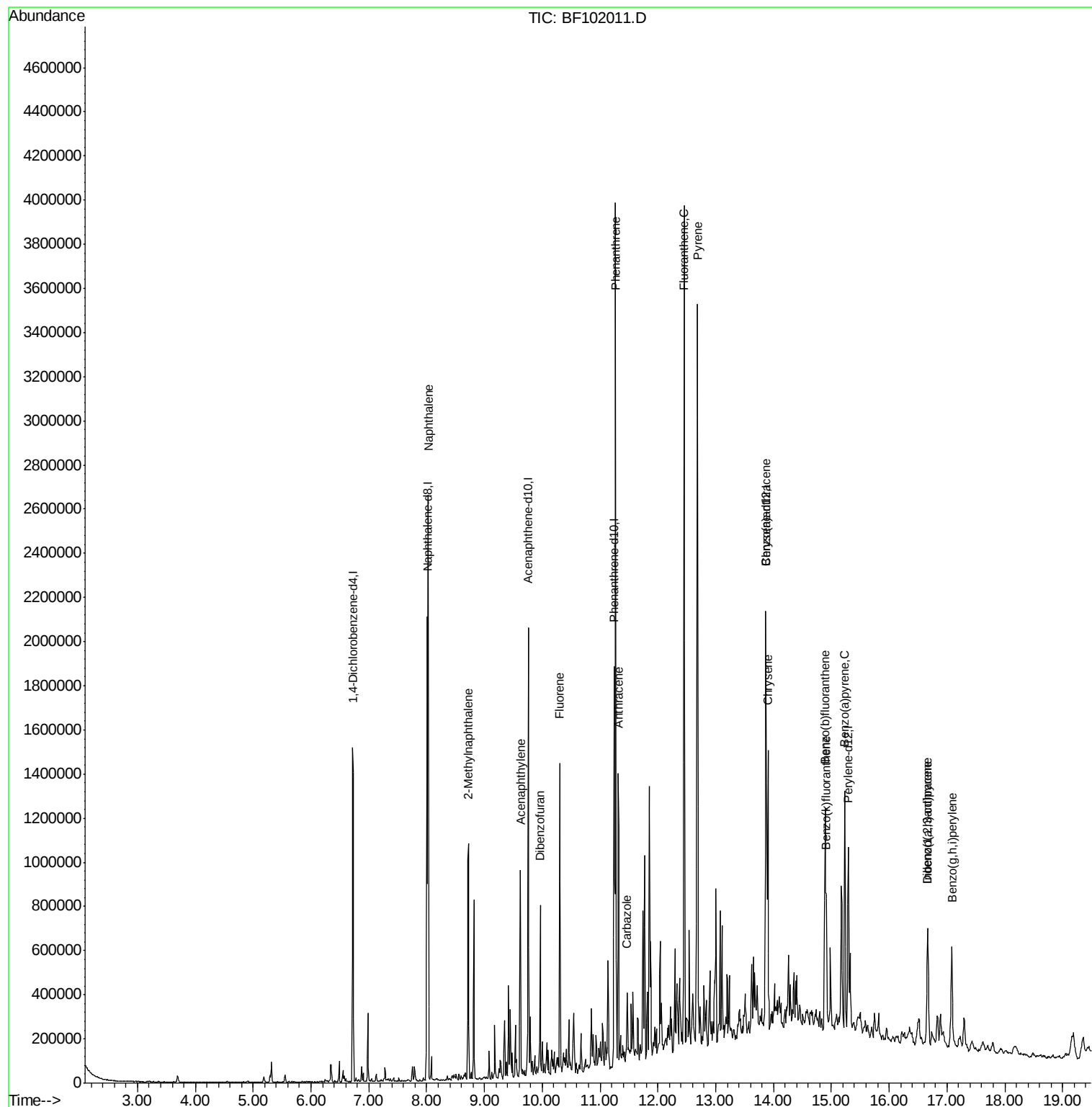
Data Path : U:\HPCHEM1\BNA F\DATA\BF011118\
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#1

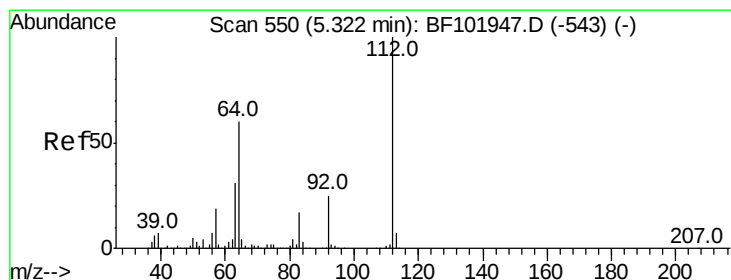
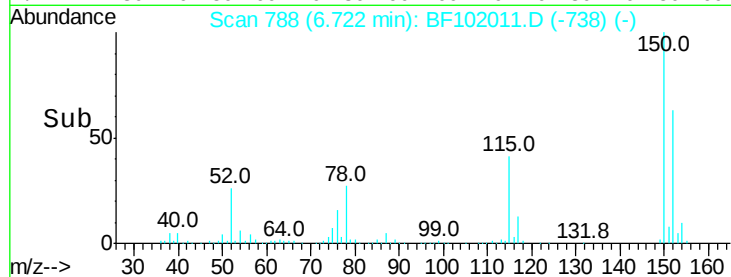
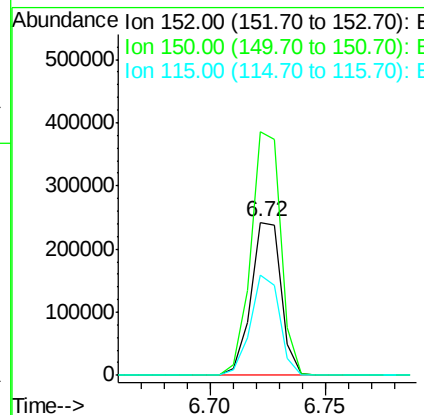
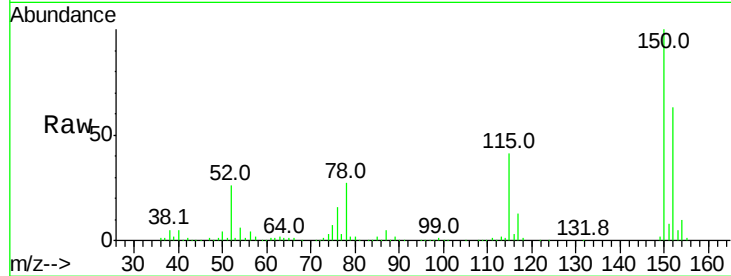
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.6	186.8
115	65.5	50.1	75.1

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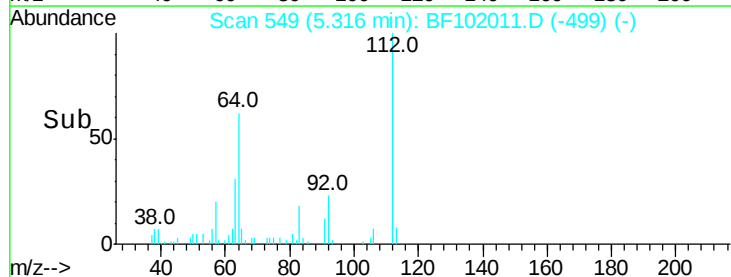
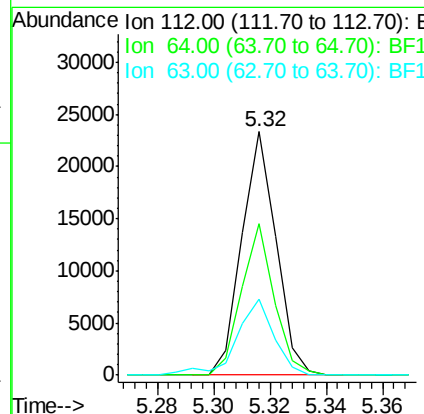
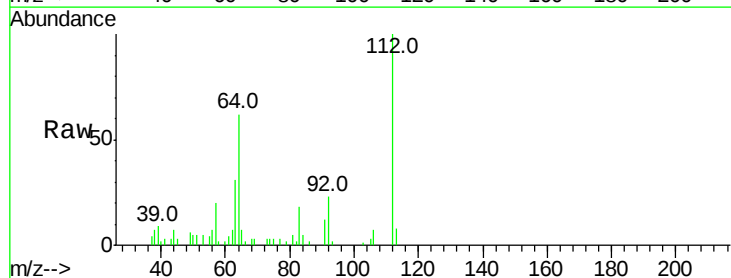
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#5

2-Fluorophenol
Concen: 1.254 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.4	47.9	71.9
63	31.0	23.7	35.5





#7

Phenol-d6

Concen: 1.319 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

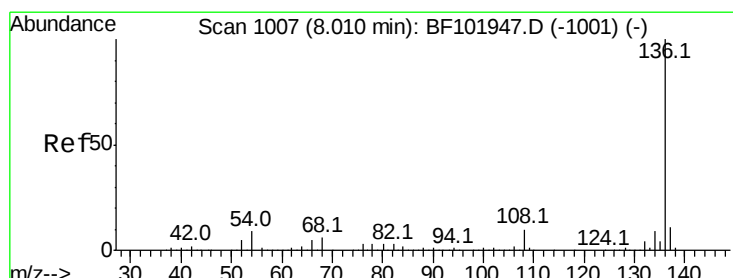
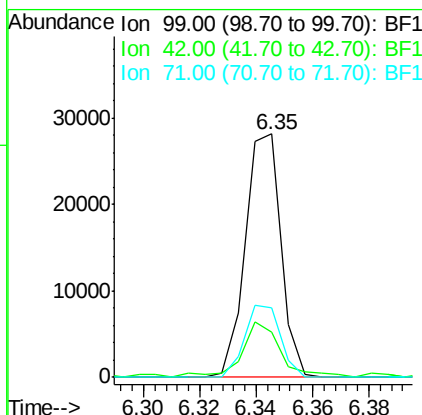
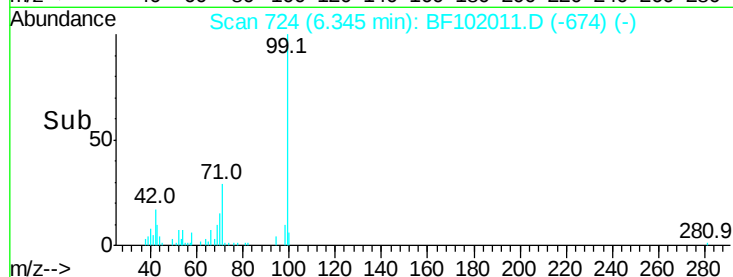
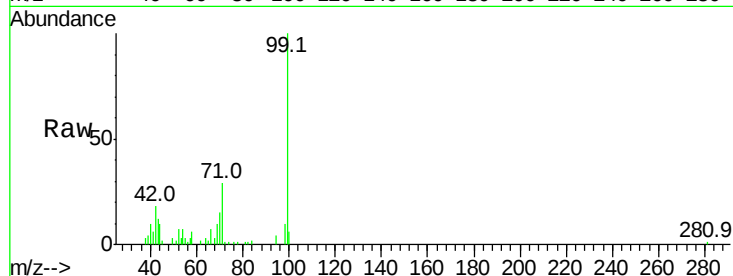
ClientSampleId :

WC-42-01

Tot Ion:	99	Resp:	24686
Ion Ratio	Lower	Upper	
99	100		
42	18.4	14.5	21.7
71	28.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

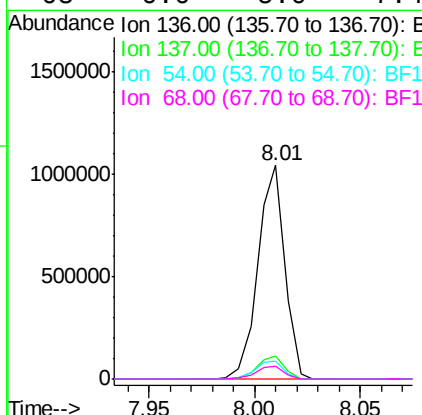
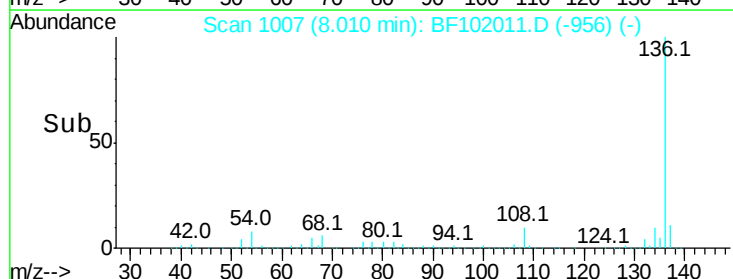
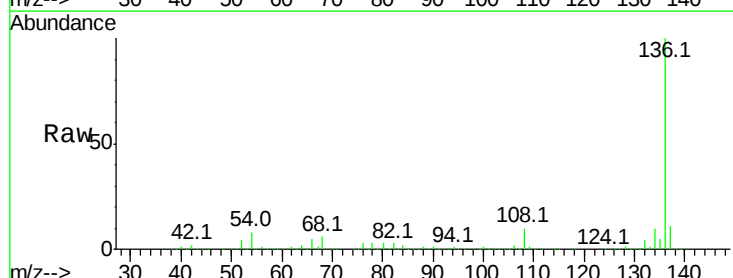
RT: 8.01 min Scan# 1007

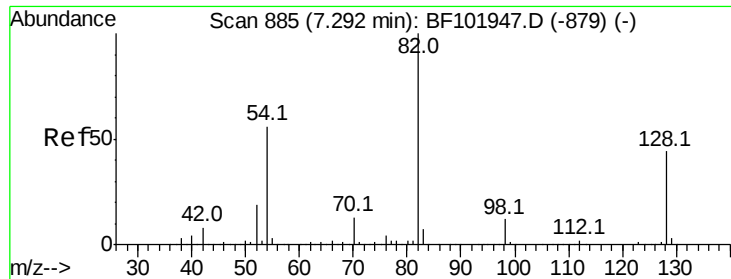
Delta R.T. 0.00 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion:	136	Resp:	923785
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.4	6.6	9.8
68	6.0	5.0	7.4





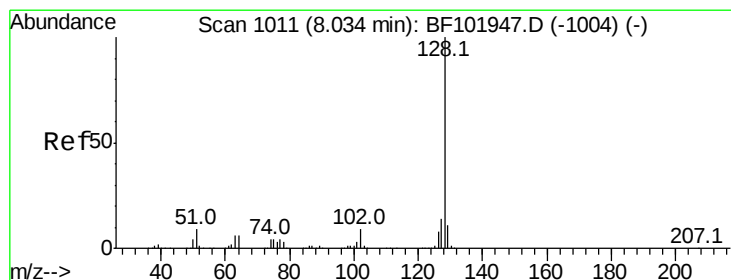
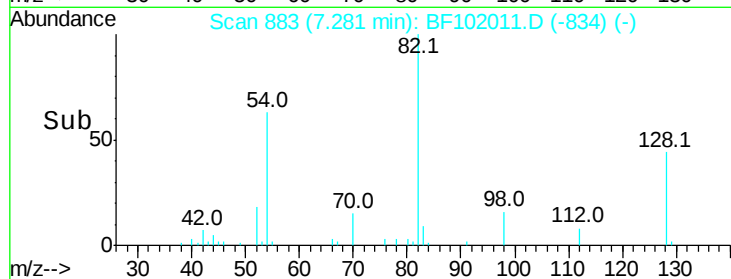
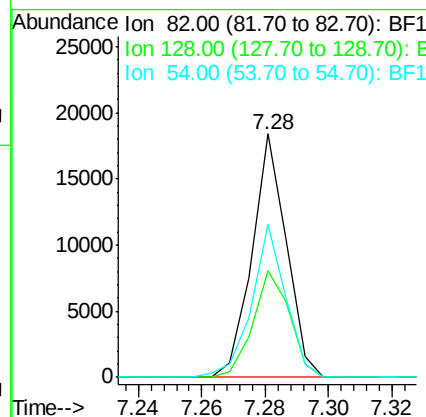
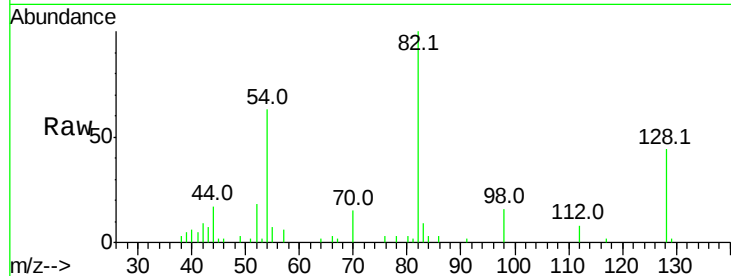
#23
Nitrobenzene-d5
Concen: 0.877 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.6	36.1	54.1
54	62.7	41.4	62.2

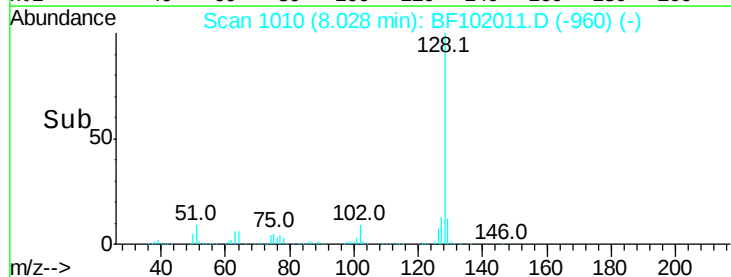
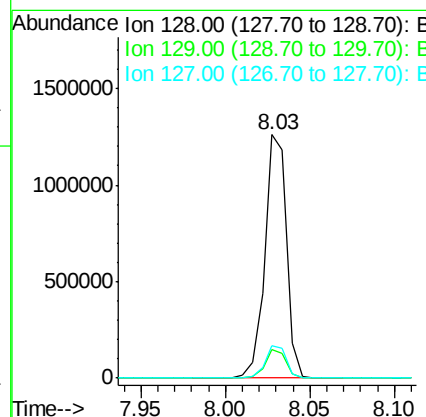
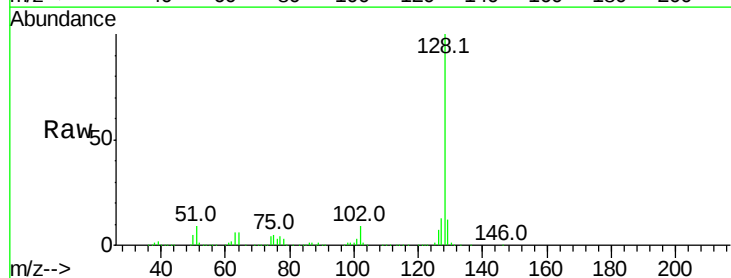
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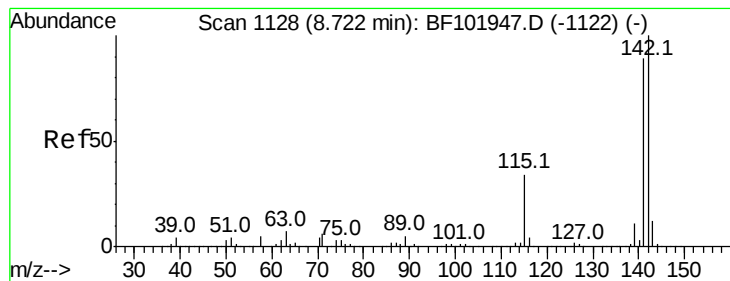
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#31
Naphthalene
Concen: 24.271 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	13.4	10.9	16.3





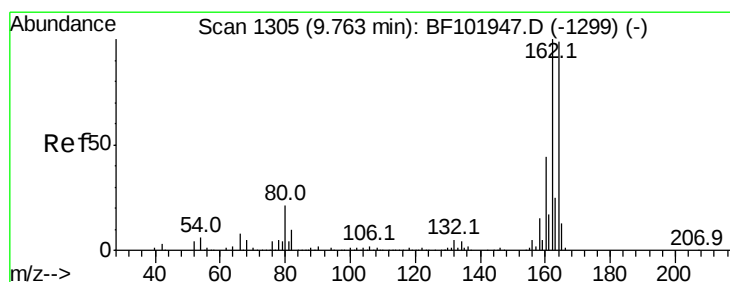
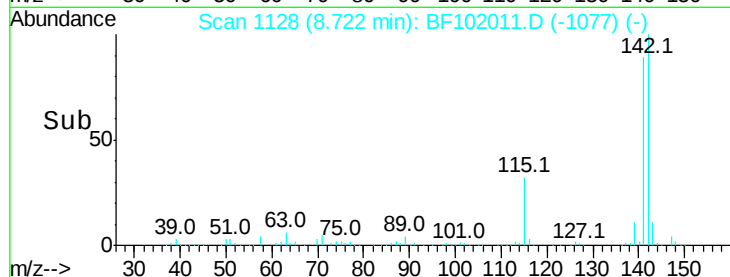
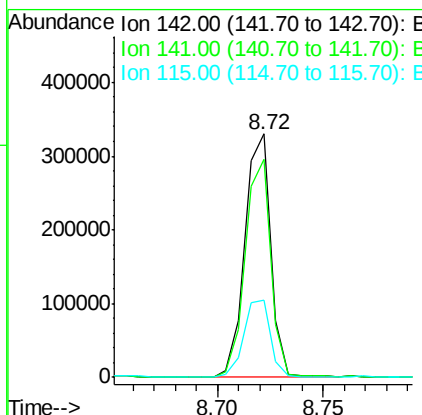
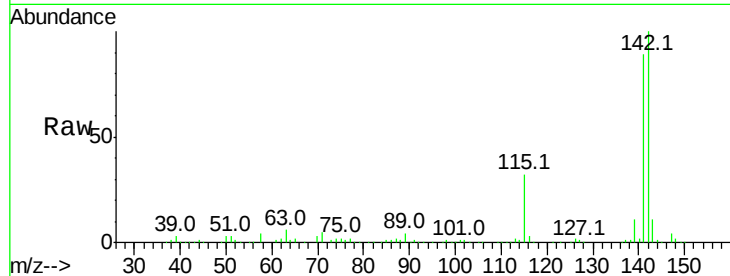
#37
2-Methylnaphthalene
Concen: 9.287 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampled :
WC-42-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.8	106.2
115	31.8	26.1	39.1

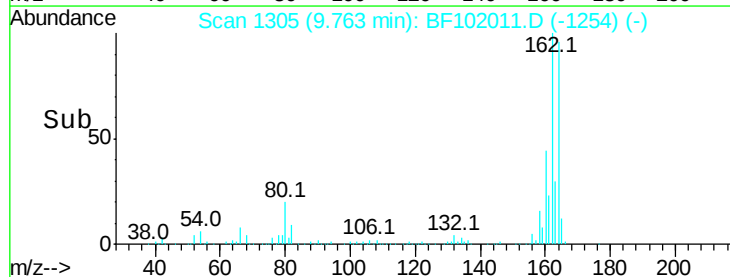
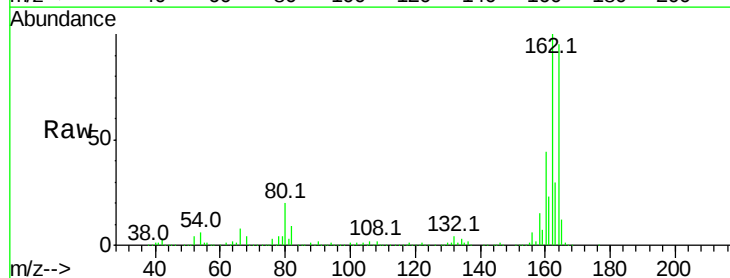
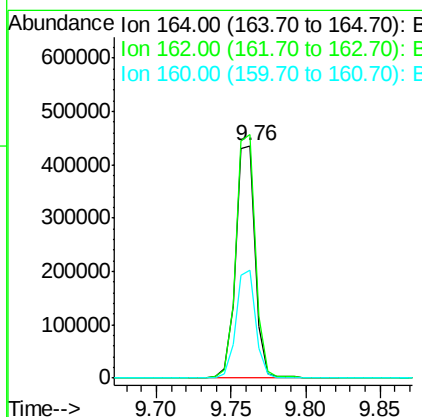
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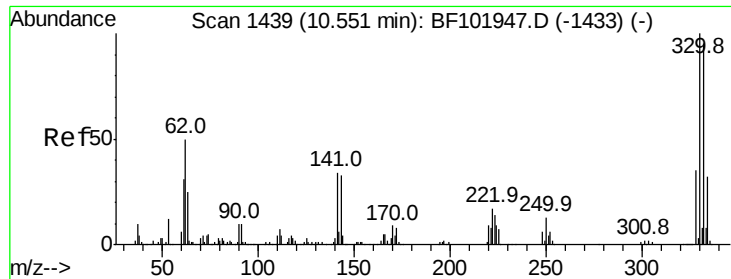
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.8	86.1	129.1
160	46.4	38.3	57.5





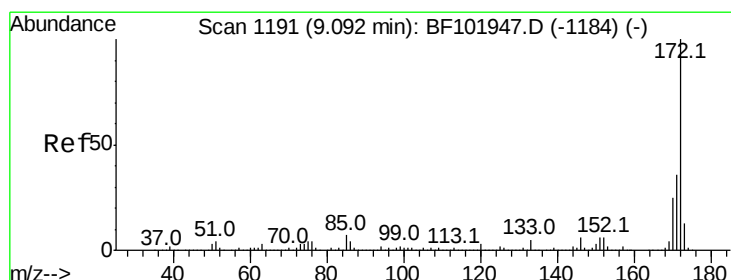
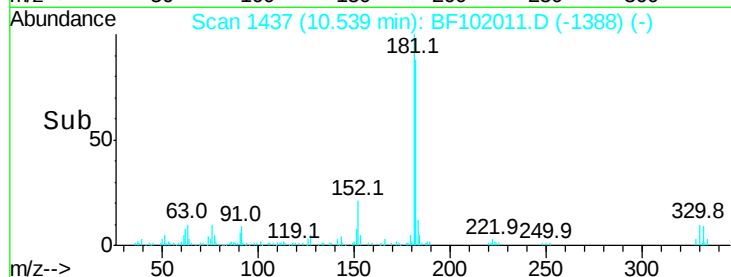
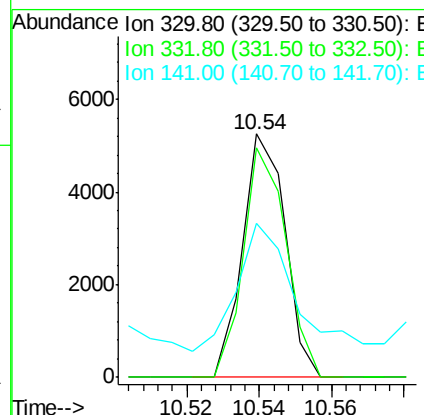
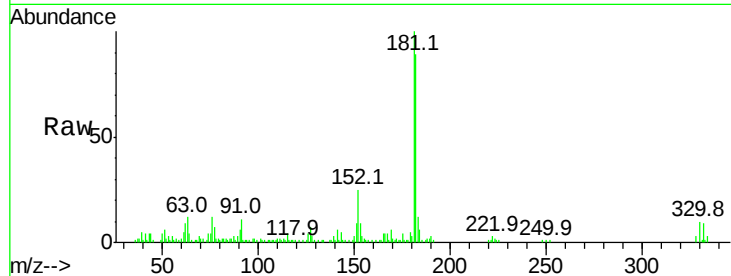
#41
 2,4,6-Tribromophenol
 Concen: 1.213 ng
 RT: 10.54 min Scan# 1437
 Delta R.T. -0.01 min
 Lab File: BF102011.D
 Acq: 11 Jan 2018 11:23

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-01

Tot Ion	Ratio	Lower	Upper
330	100		
332	94.5	77.0	115.6
141	71.4	29.9	44.9

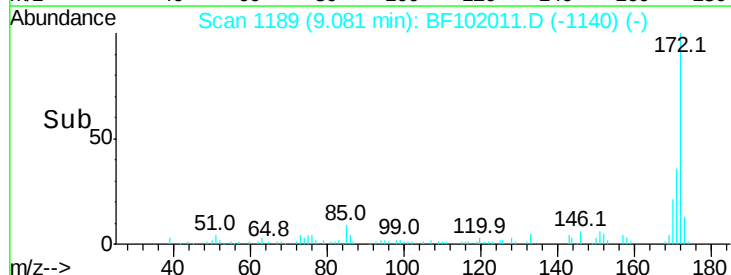
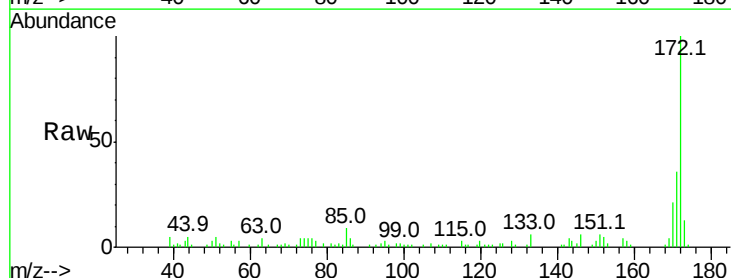
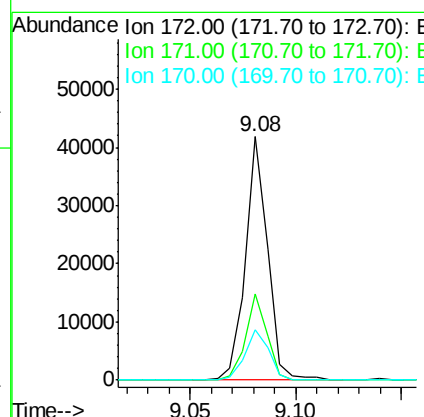
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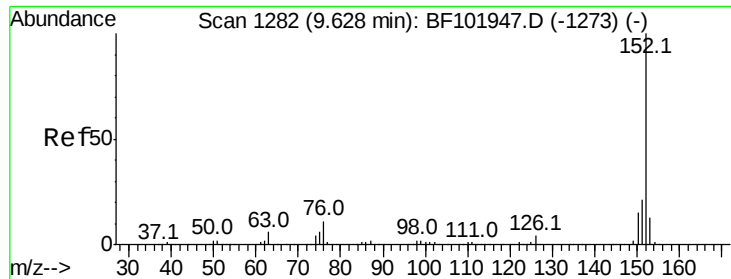
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#44
 2-Fluorobiphenyl
 Concen: 1.163 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102011.D
 Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	20.8	19.6	29.4





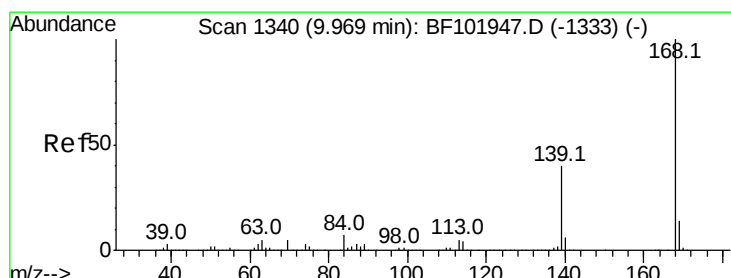
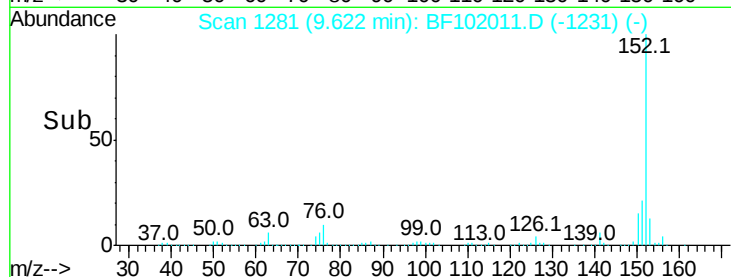
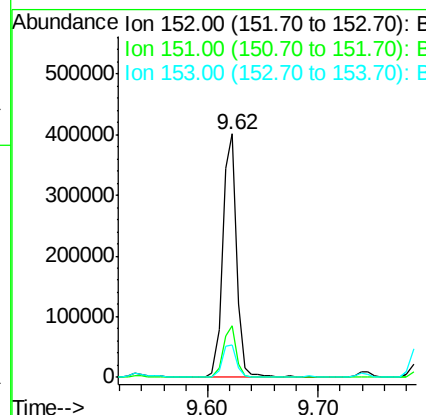
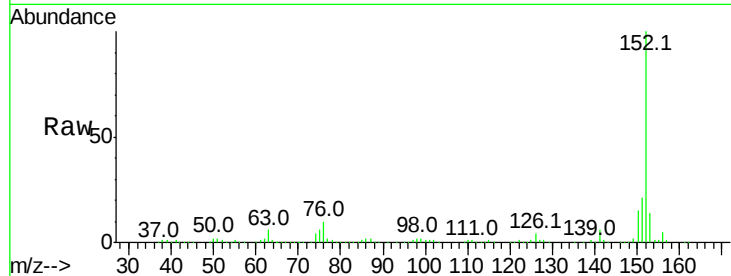
#48
Acenaphthylene
Concen: 7.967 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.3	24.5
153	13.5	10.7	16.1

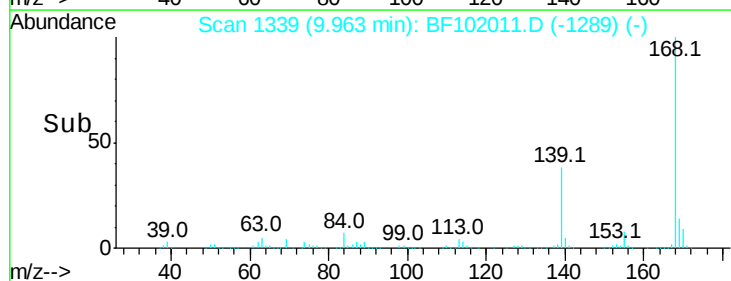
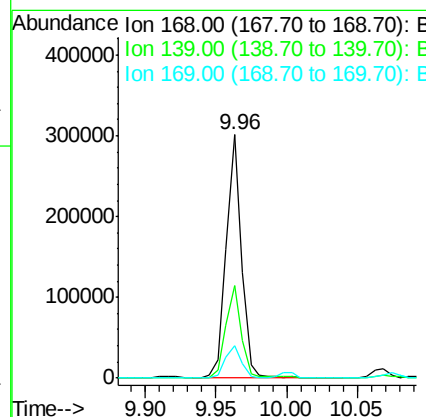
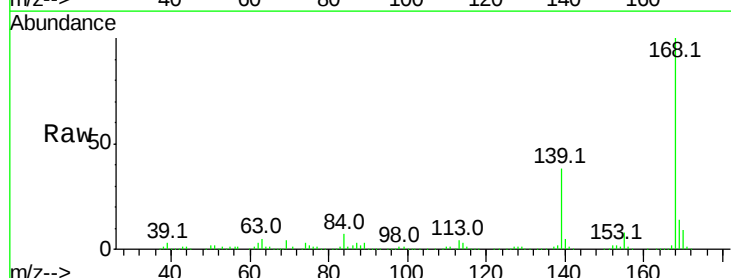
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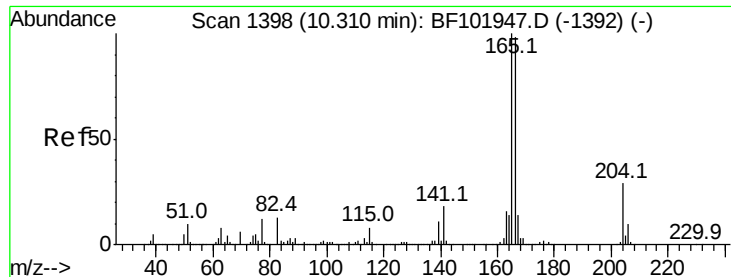
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#54
Dibenzofuran
Concen: 6.266 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.9	30.1	45.1
169	13.5	10.9	16.3





#57

Fluorene

Concen: 13.390 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.00 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

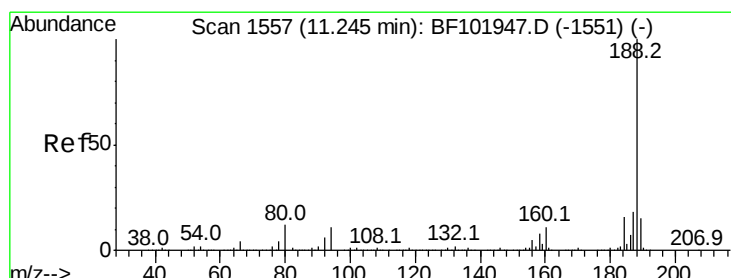
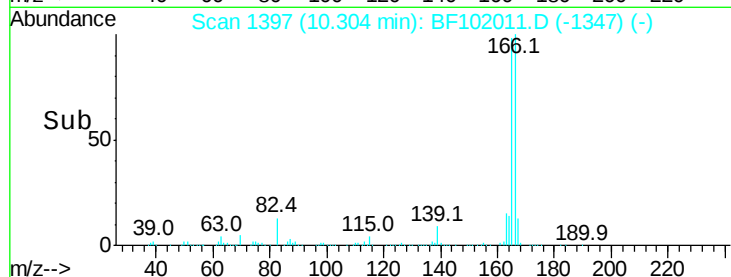
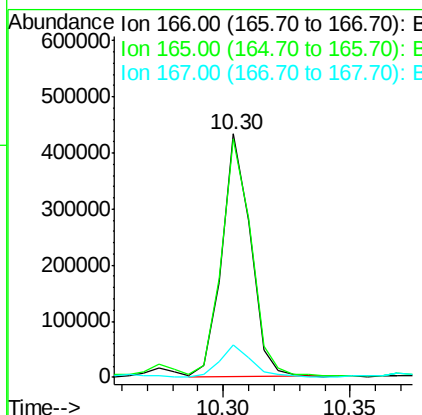
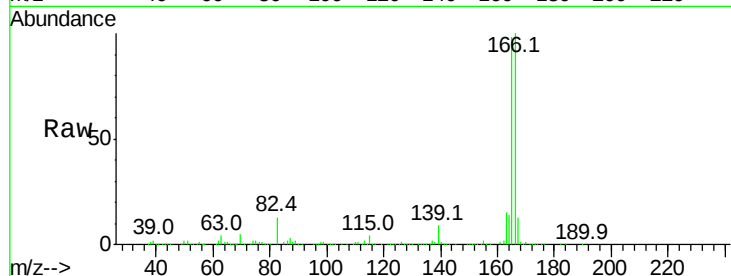
ClientSampled :

WC-42-01

Tot Ion:	166	Resp:	337949
Ion Ratio	Lower	Upper	
166	100		
165	97.8	79.8	119.8
167	13.4	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

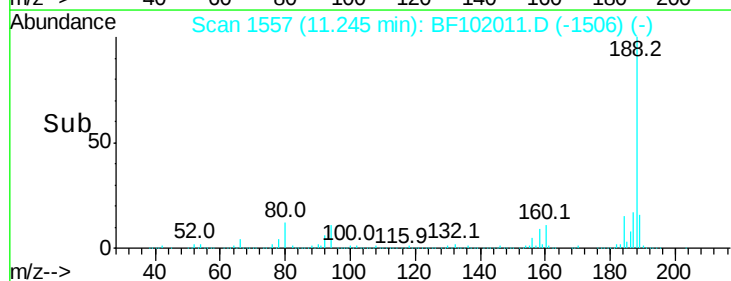
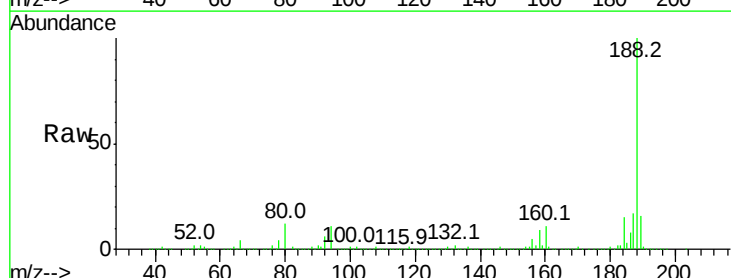
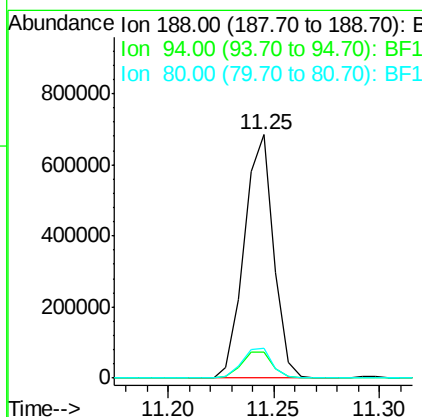
RT: 11.25 min Scan# 1557

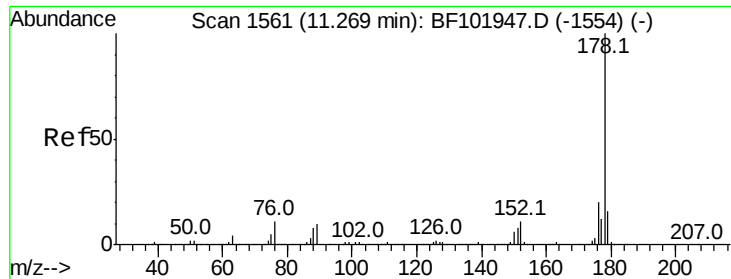
Delta R.T. 0.00 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion:	188	Resp:	658829
Ion Ratio	Lower	Upper	
188	100		
94	10.9	8.5	12.7
80	12.1	9.2	13.8





#70

Phenanthrene

Concen: 40.528 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

ClientSampleId :

WC-42-01

Tot Ion:178 Resp: 1559706

Ion Ratio Lower Upper

178 100

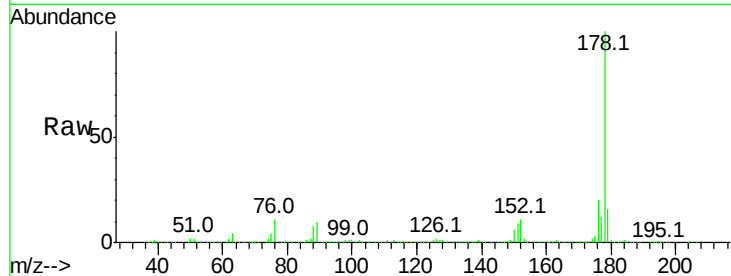
176 20.1 15.8 23.8

179 16.1 13.0 19.6

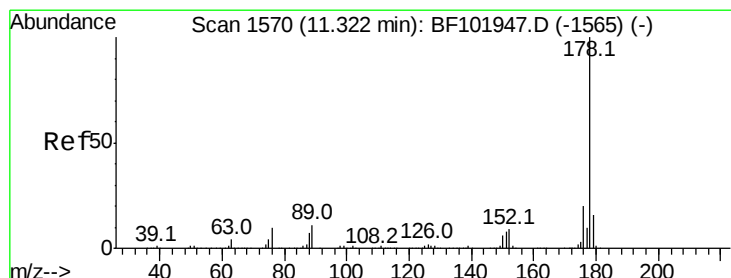
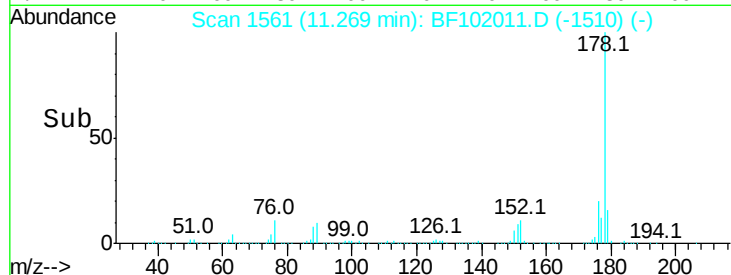
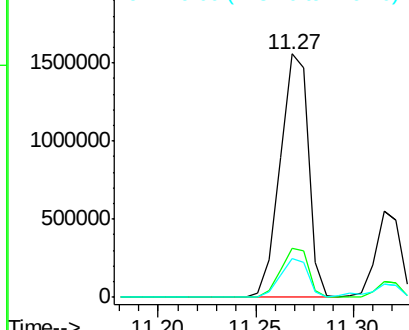
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 12.227 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion:178 Resp: 477218

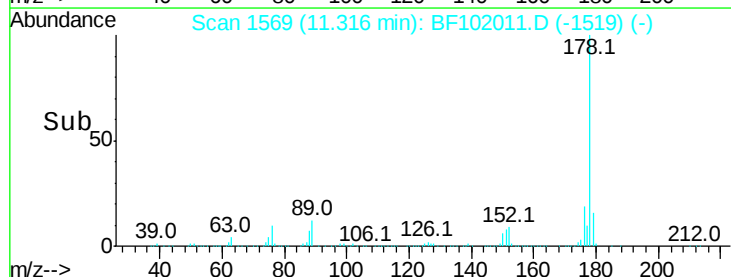
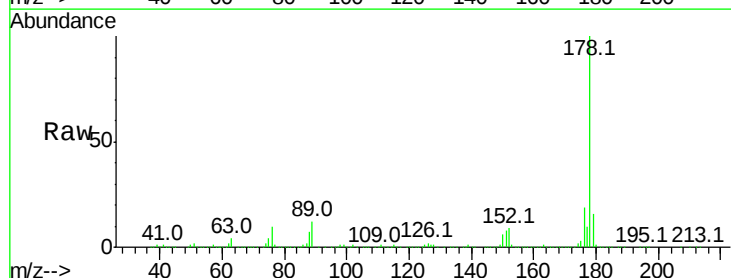
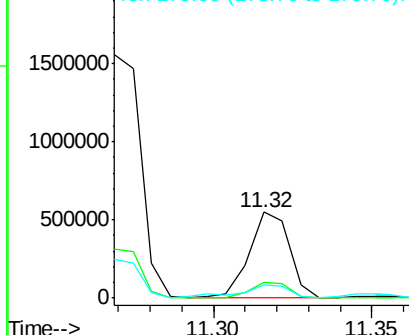
Ion Ratio Lower Upper

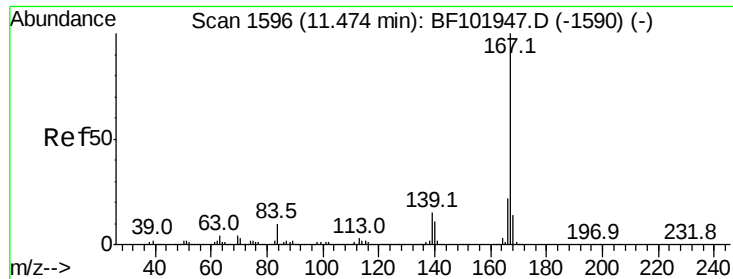
178 100

176 18.6 15.4 23.2

179 15.9 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: 3.082 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

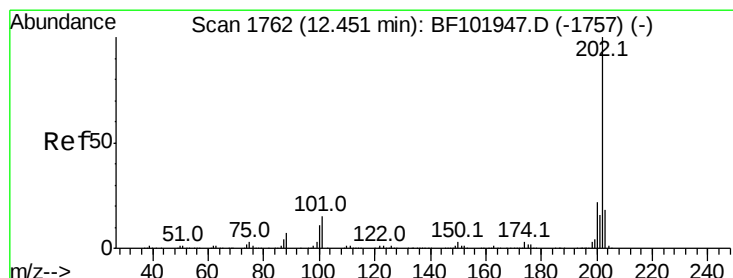
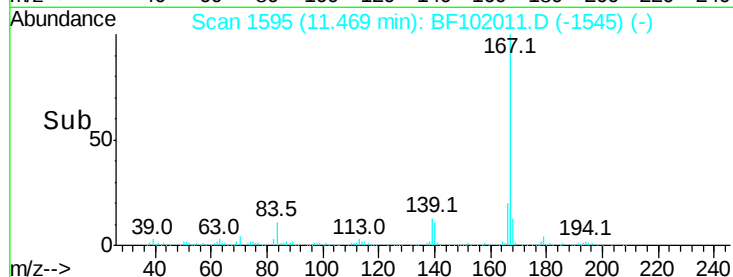
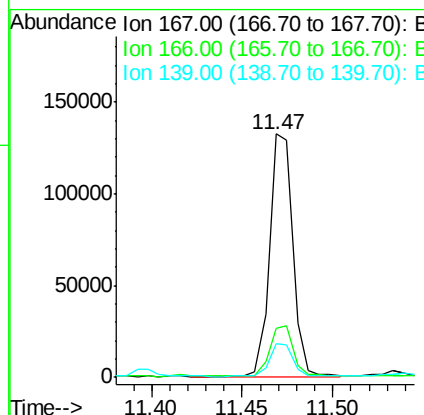
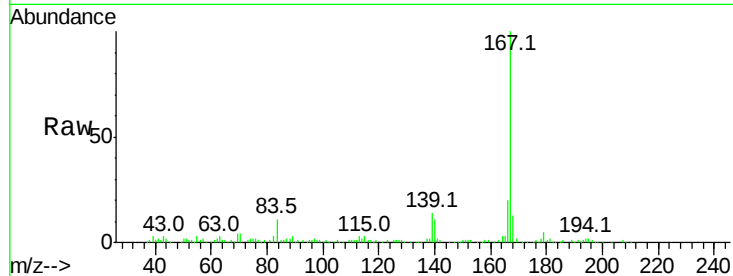
ClientSampleId :

WC-42-01

Tot Ion	Ratio	Resp	Lower	Upper
167	100	118229		
166	20.3		17.6	26.4
139	13.7		10.9	16.3

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#74

Fluoranthene

Concen: 40.153 ng

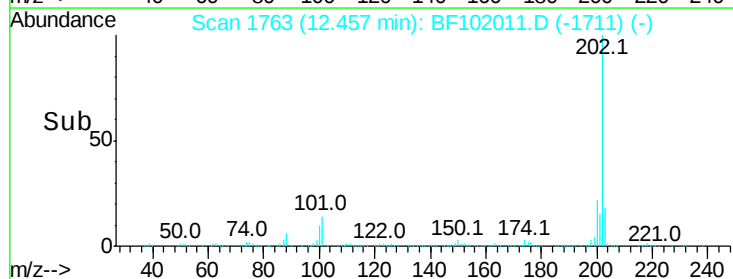
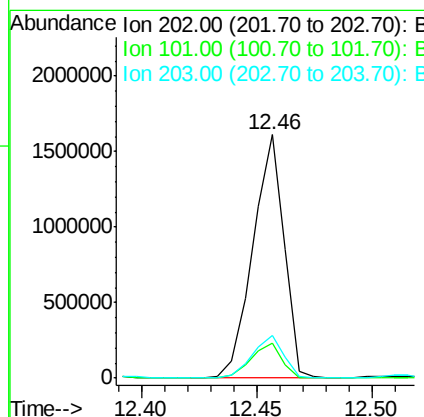
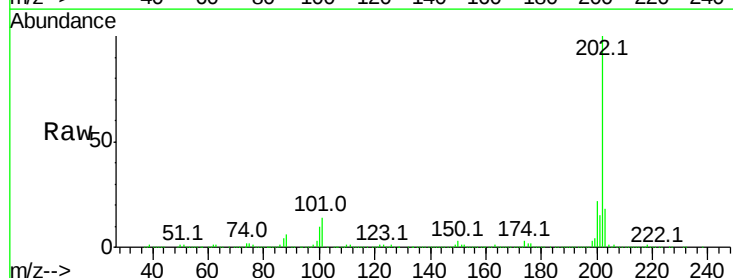
RT: 12.46 min Scan# 1763

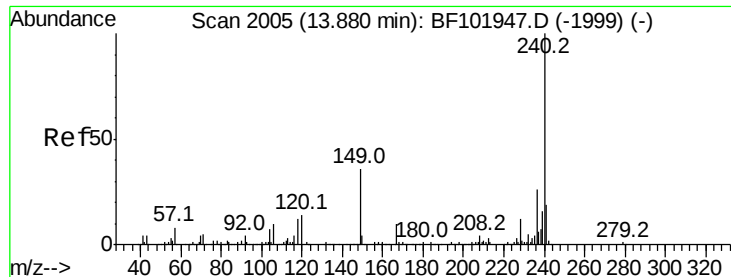
Delta R.T. 0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1520320		
101	14.1		0.0	34.1
203	17.6		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: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

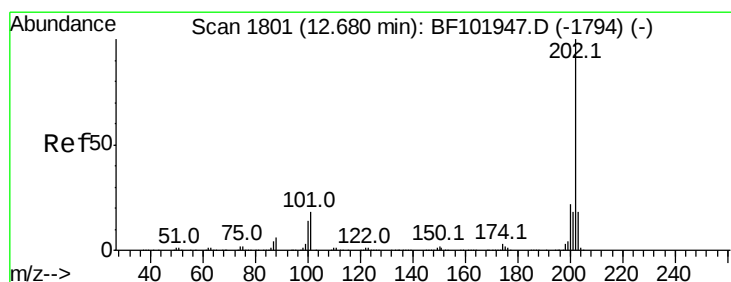
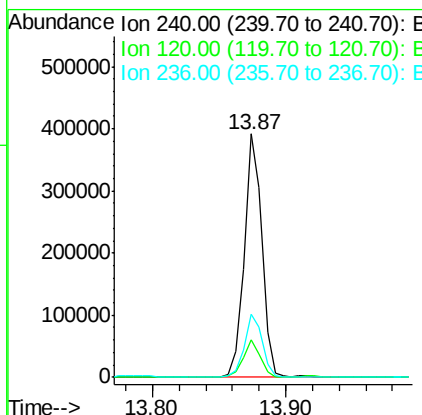
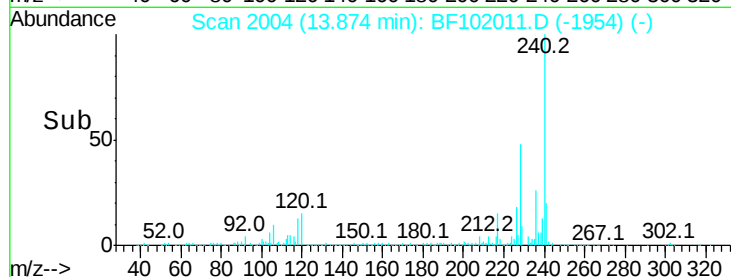
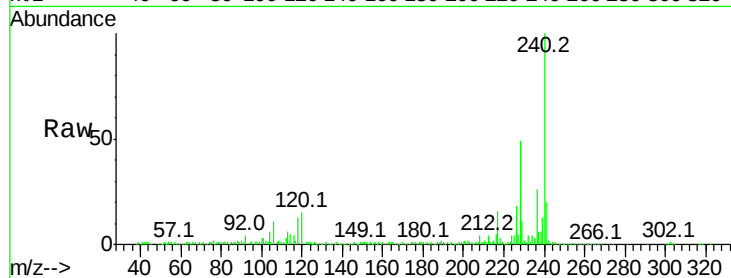
ClientSampled :

WC-42-01

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.5	9.5	14.3#
236	25.9	20.7	31.1

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#77

Pyrene

Concen: 44.222 ng

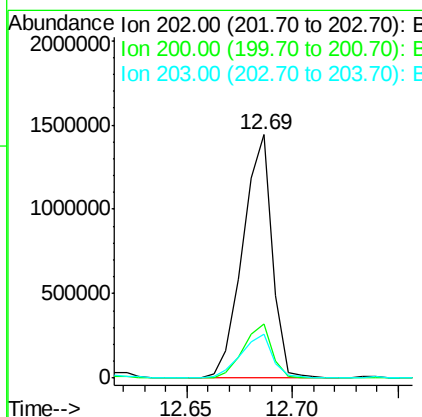
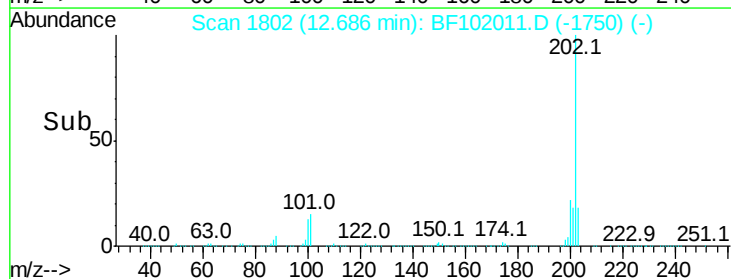
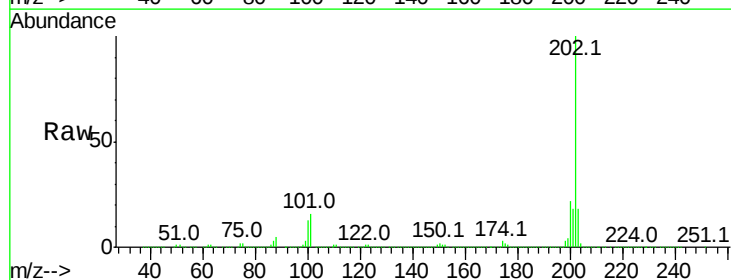
RT: 12.69 min Scan# 1802

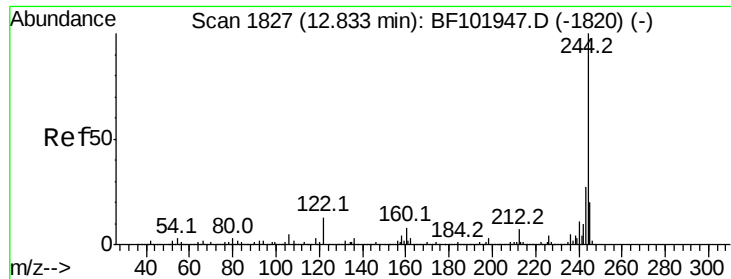
Delta R.T. 0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.4	26.2
203	18.2	14.3	21.5





#78

Terphenyl-d14

Concen: 1.379 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

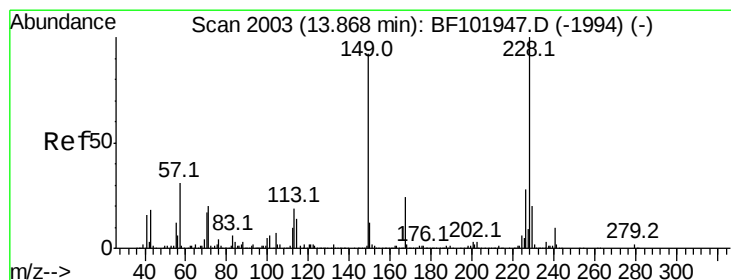
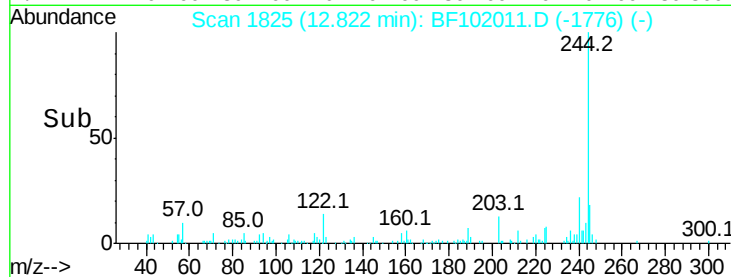
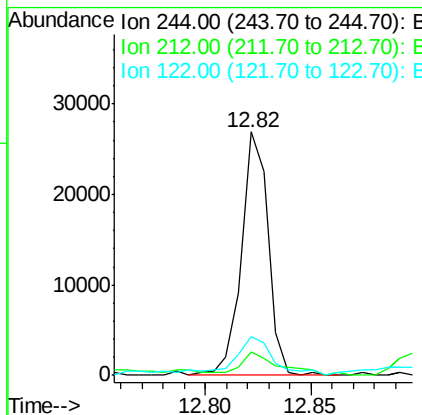
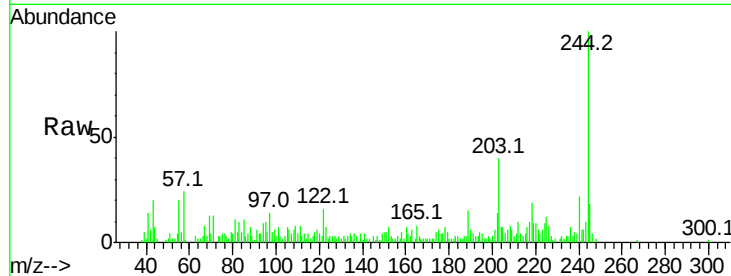
ClientSampleId :

WC-42-01

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.8	5.4	8.0#
122	16.2	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 24.949 ng m

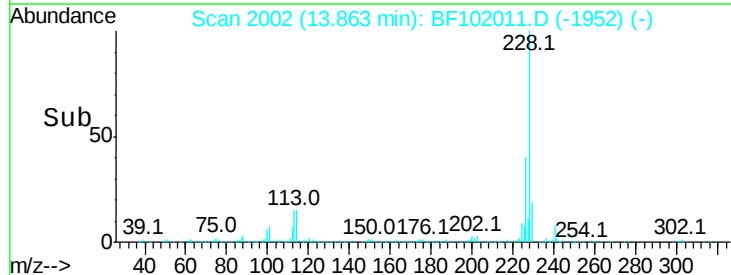
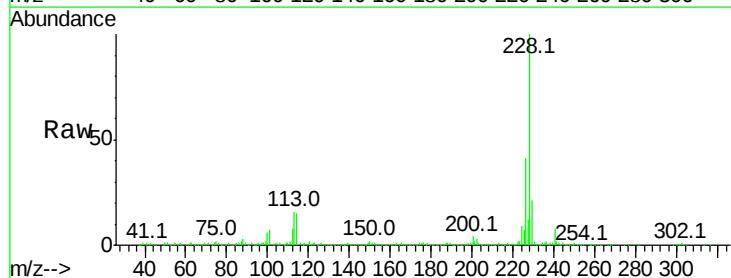
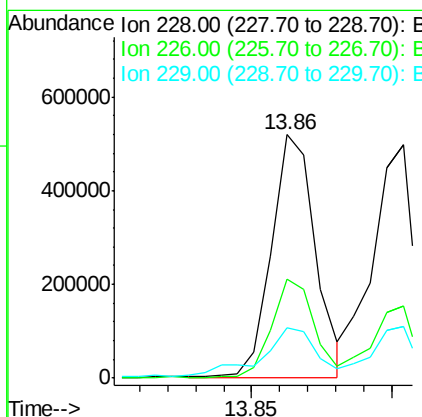
RT: 13.86 min Scan# 2002

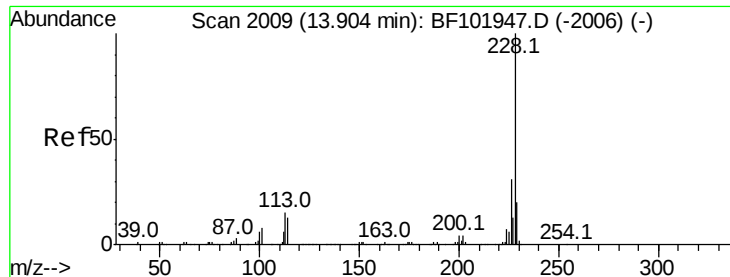
Delta R.T. -0.01 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	40.5	22.6	33.8#
229	20.7	15.8	23.6





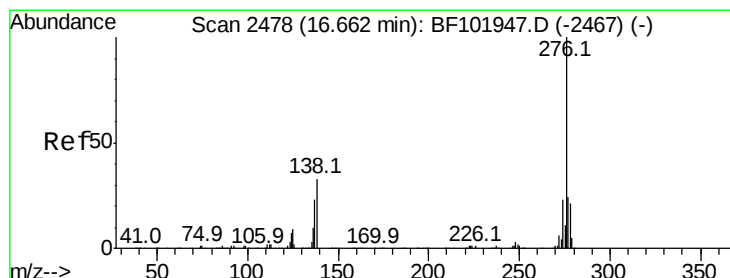
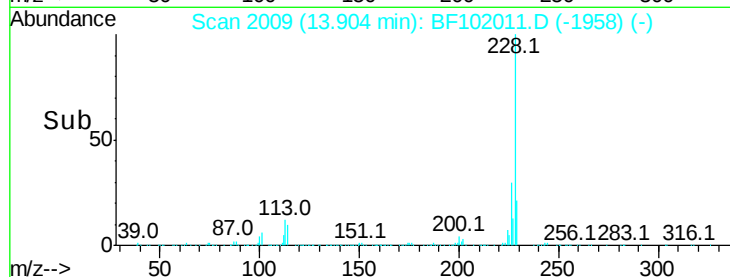
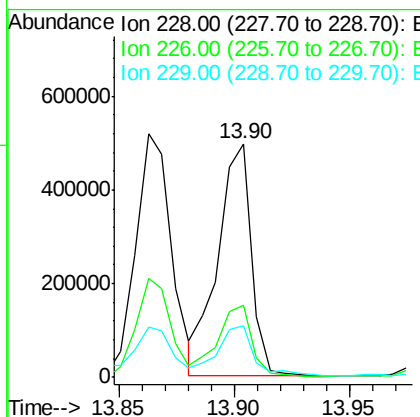
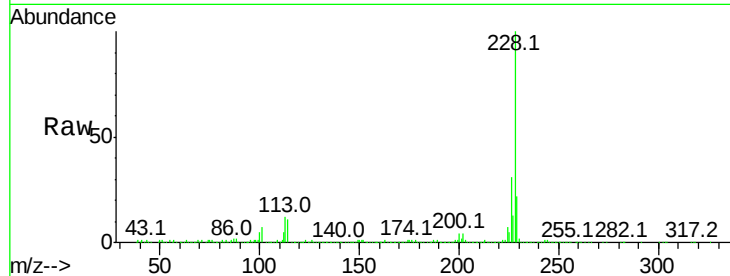
#82
Chrysene
Concen: 21.135 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.00 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.6
229	21.9	16.2	24.4

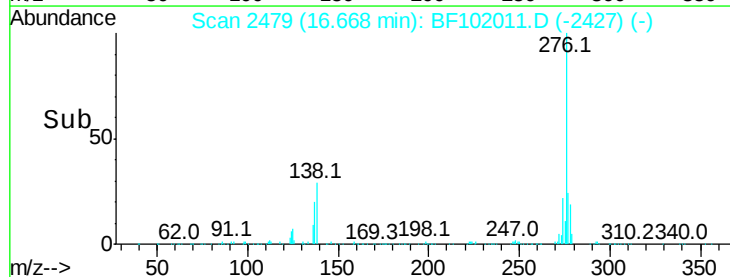
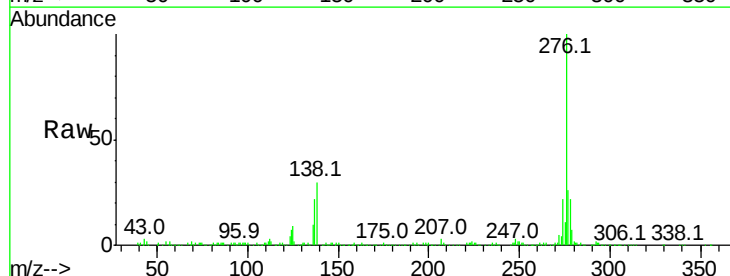
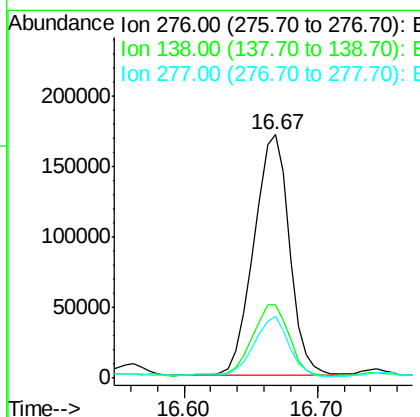
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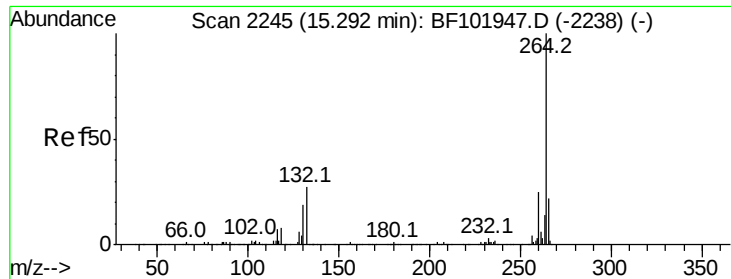
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#85
Indeno(1,2,3-cd)pyrene
Concen: 18.314 ng
RT: 16.67 min Scan# 2479
Delta R.T. 0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.6	25.0	37.6
277	25.0	20.1	30.1





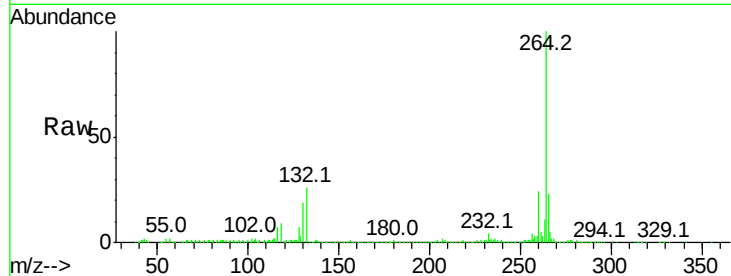
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. 0.00 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	22.5	17.5	26.3

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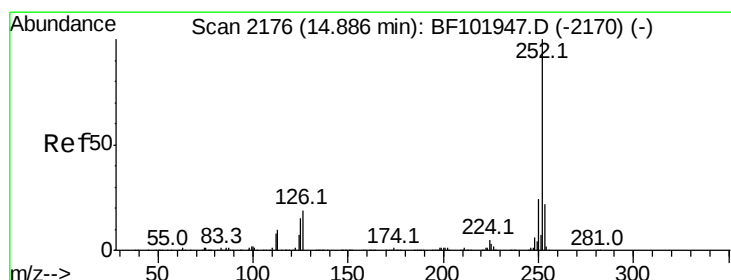
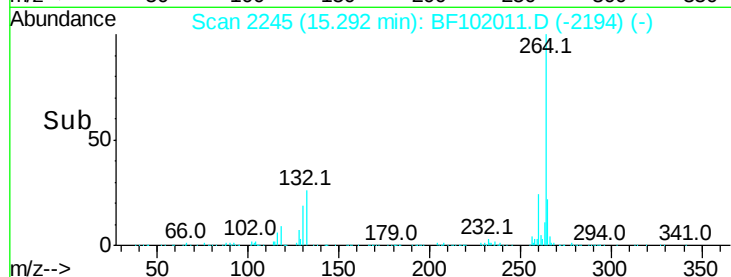
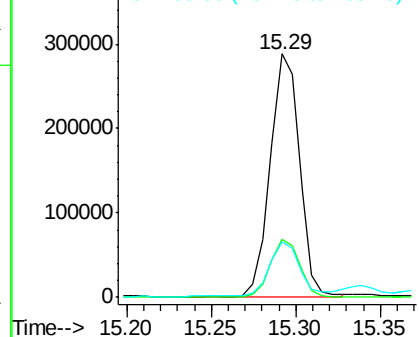


Abundance

Ion 264.00 (263.70 to 264.70): E

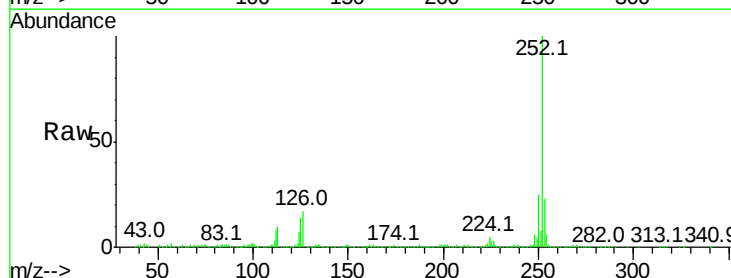
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 23.937 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	14.5	9.0	13.6

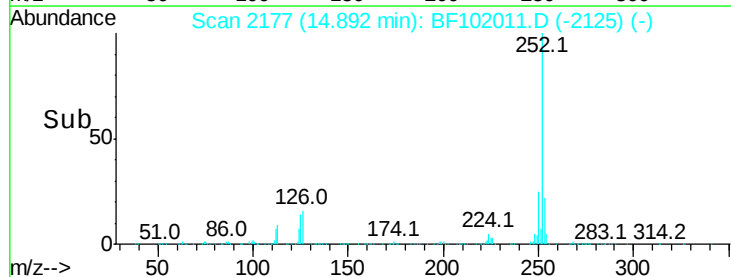
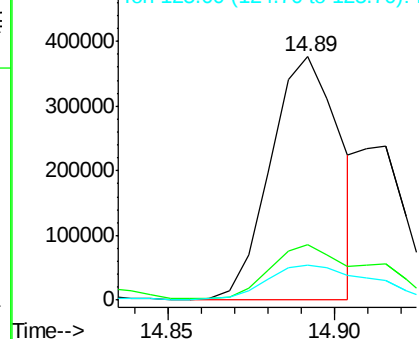


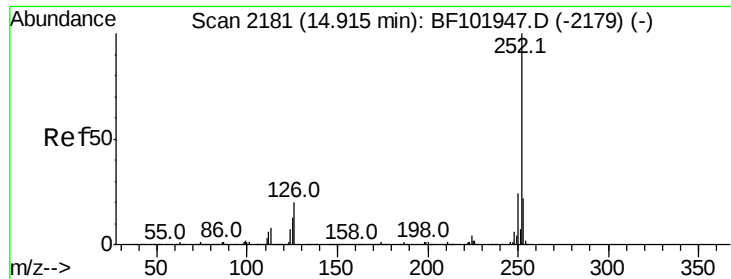
Abundance

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: 10.516 ng

RT: 14.92 min Scan# 2181

Delta R.T. 0.00 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Instrument :

BNA_F

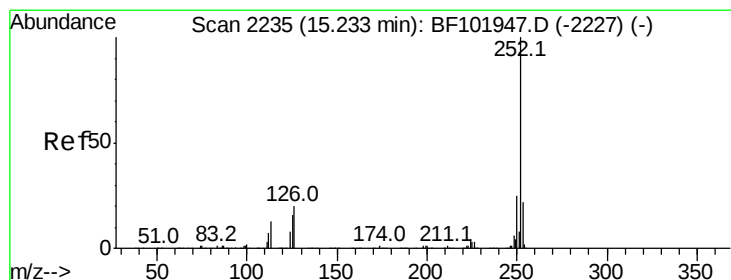
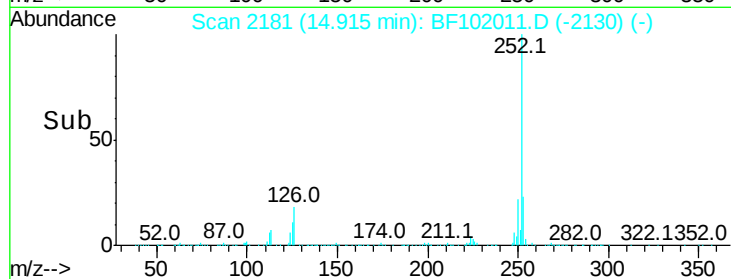
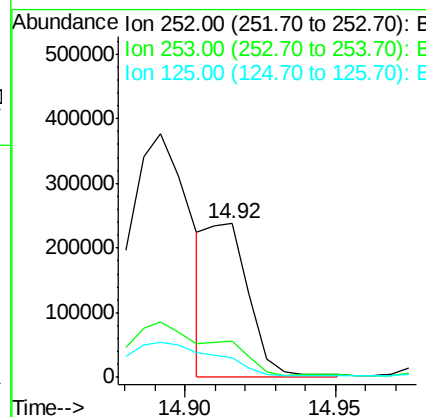
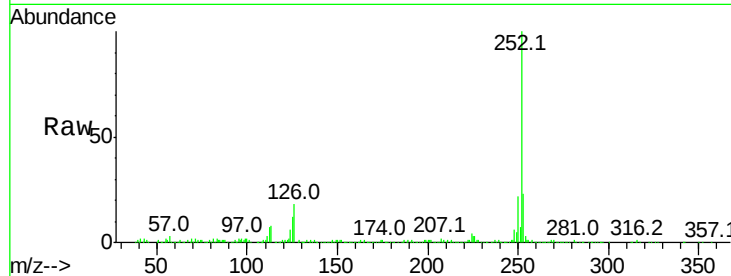
ClientSampled :

WC-42-01

Tot Ion:	252	Resp:	229750
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.9	26.9
125	12.4	10.2	15.2

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#89

Benzo(a)pyrene

Concen: 22.618 ng

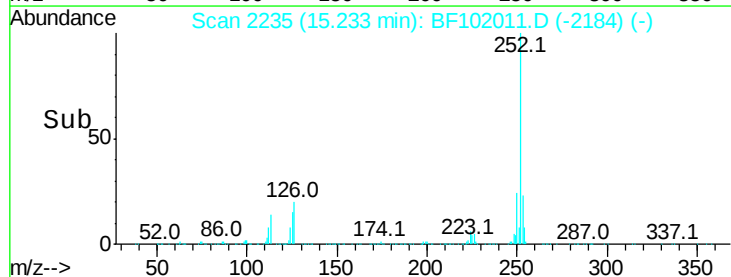
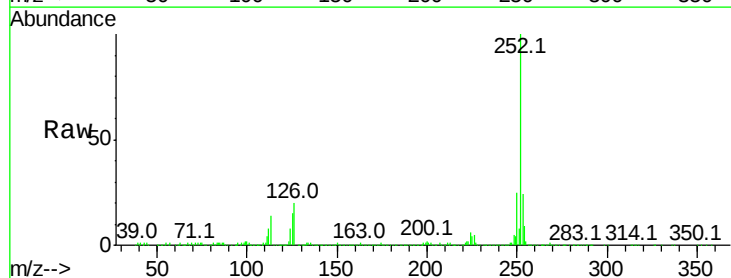
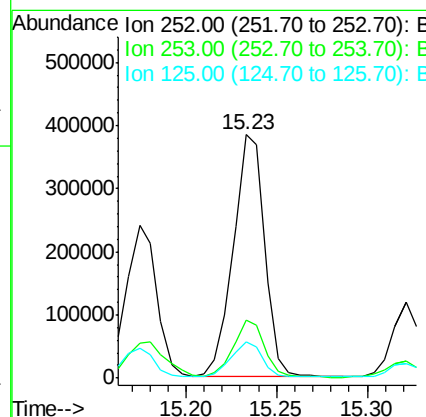
RT: 15.23 min Scan# 2235

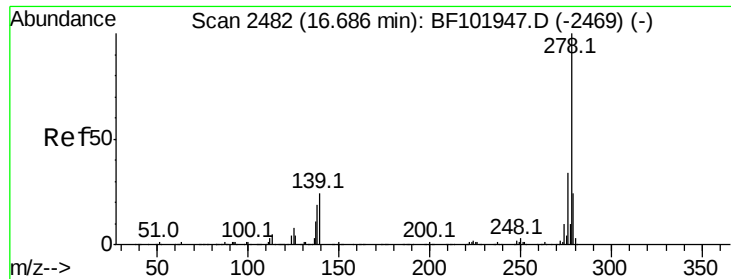
Delta R.T. 0.00 min

Lab File: BF102011.D

Acq: 11 Jan 2018 11:23

Tgt Ion:	252	Resp:	460968
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.1	25.7
125	15.1	9.8	14.6





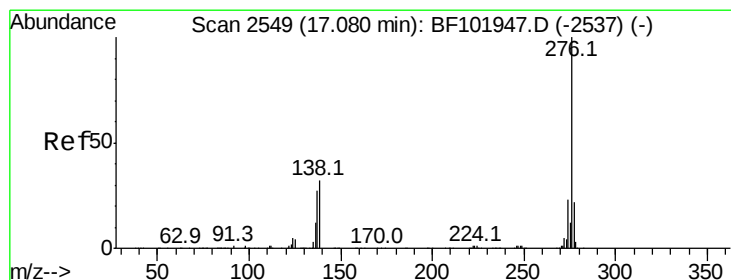
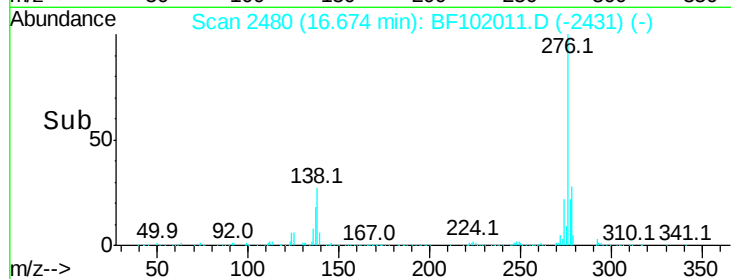
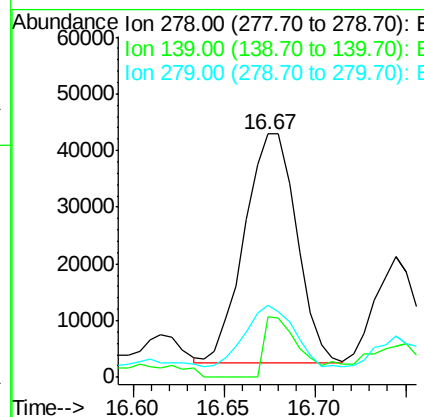
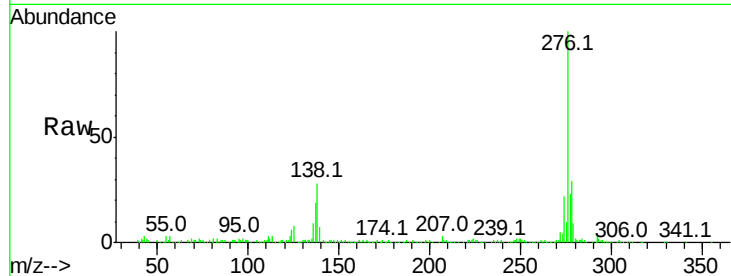
#90
Dibenzo(a,h)anthracene
Concen: 4.957 ng m
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.7	15.9	23.9#
279	29.6	19.0	28.4#

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#91
Benzo(g,h,i)perylene
Concen: 18.980 ng
RT: 17.09 min Scan# 2550
Delta R.T. 0.01 min
Lab File: BF102011.D
Acq: 11 Jan 2018 11:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	17.9	26.9
138	29.9	21.8	32.8

