

Data Path : U:\HPCHEM1\BNA F\DATA\BF010518\
 Data File : BF101920.D
 Acq On : 5 Jan 2018 10:59
 Operator : SJ/JU
 Sample : J1033-03 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-2(5)

Manual Integrations
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 1/8/2018 4:21:36 PM

Quant Time: Jan 05 12:43:41 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 05 12:29:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	118396	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	440086	20.00	ng	0.00
38) Acenaphthene-d10	9.81	164	154734	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	247861	20.00	ng	0.00
75) Chrysene-d12	13.96	240	258202	20.00	ng	0.00
86) Perylene-d12	15.43	264	232423	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	108274	13.62	ng	0.04
7) Phenol-d6	6.47	99	146632	14.82	ng	0.04
23) Nitrobenzene-d5	7.36	82	91723	11.60	ng	0.01
41) 2,4,6-Tribromophenol	10.62	330	10156	6.81	ng	0.01
44) 2-Fluorobiphenyl	9.13	172	145499	14.59	ng	0.00
78) Terphenyl-d14	12.88	244	120147	11.22	ng	0.00
Target Compounds						
70) Phenanthrene	11.33	178	96062	6.969	ng	98
71) Anthracene	11.39	178	34054	2.419	ng	95
74) Fluoranthene	12.52	202	174060	12.031	ng	98
77) Pyrene	12.76	202	175141	9.038	ng	98
80) Benzo(a)anthracene	13.94	228	110947m	6.507	ng	
82) Chrysene	13.99	228	95352	5.923	ng	98
83) Bis(2-ethylhexyl)phthalate	13.89	149	28456	2.562	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.94	276	40717	2.840	ng	# 88
87) Benzo(b)fluoranthene	15.01	252	133198m	9.402	ng	
88) Benzo(k)fluoranthene	15.03	252	34062m	2.473	ng	
89) Benzo(a)pyrene	15.37	252	87686	6.714	ng	# 89
91) Benzo(a,h,i)perylene	17.39	276	35542	3.201	ng	# 90

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

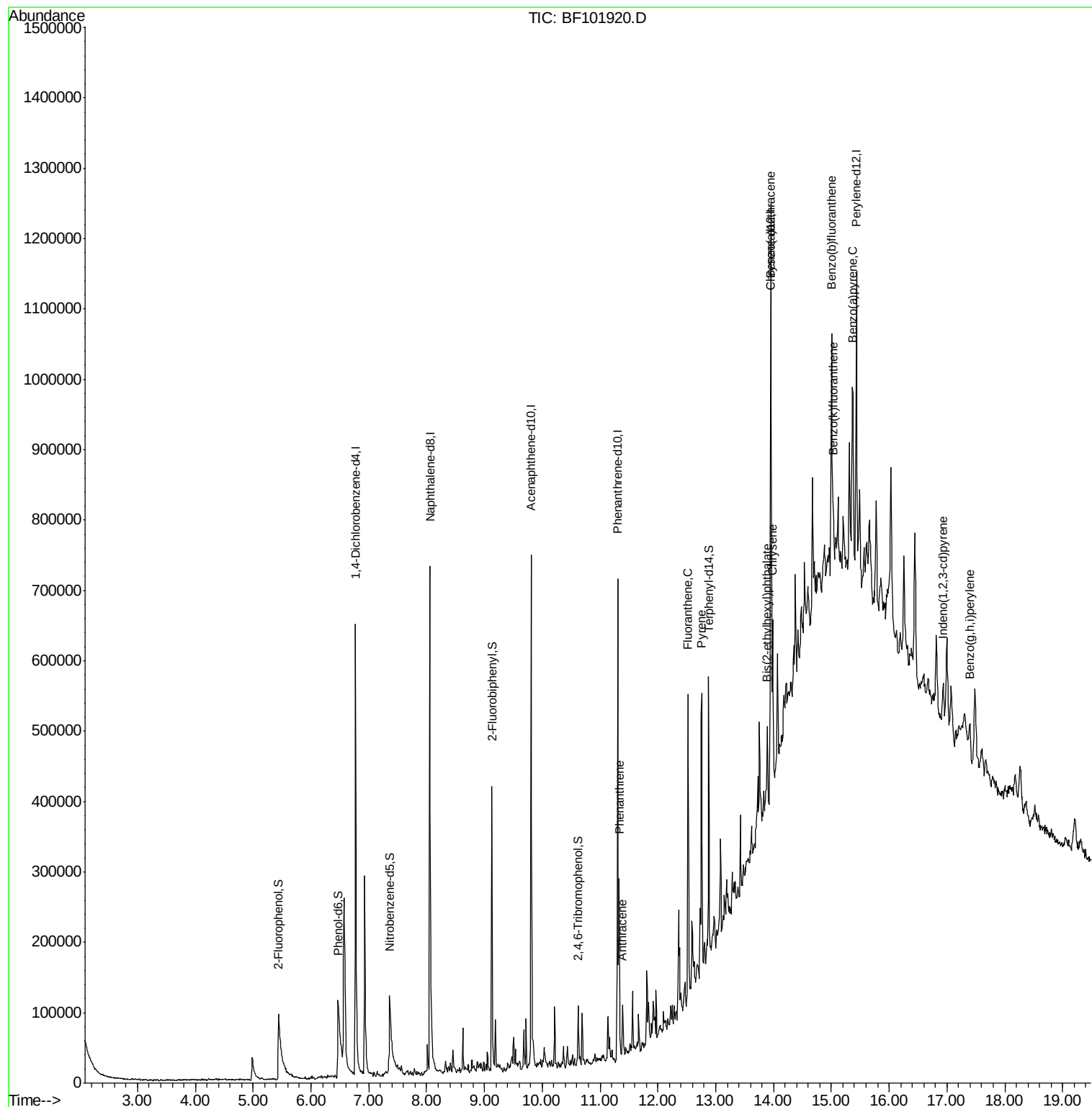
Data Path : U:\HPCHEM1\BNA F\DATA\BF010518\
Data File : BF101920.D
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Operator : SJ/JU
Sample : J1033-03 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

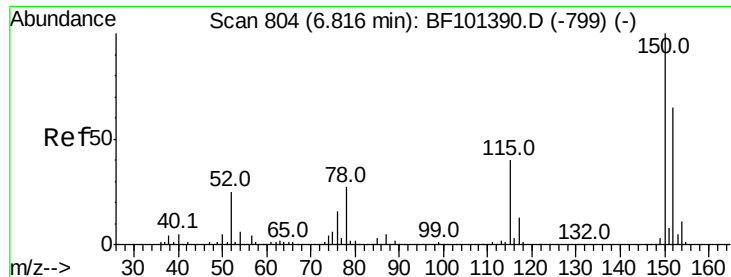
Instrument :
BNA_F
ClientSampleId :
B-2(5)

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#1

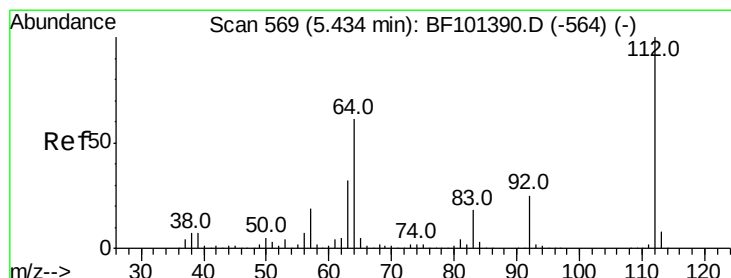
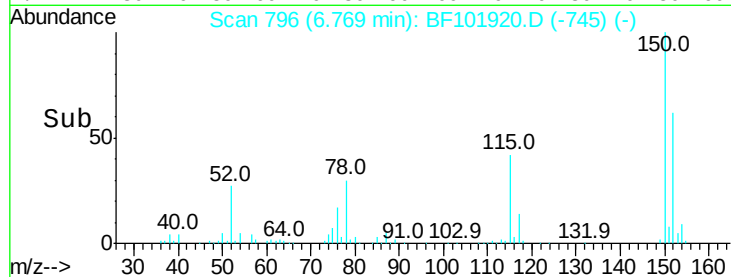
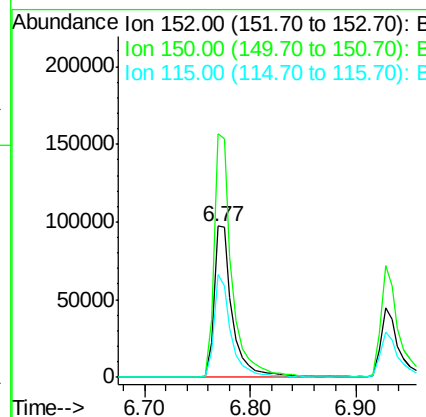
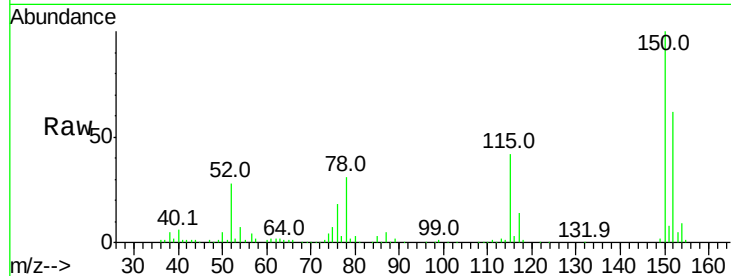
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 796
Delta R.T. -0.00 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Instrument :
BNA_F
ClientSampled :
B-2(5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.3	124.6	186.8
115	68.1	50.1	75.1

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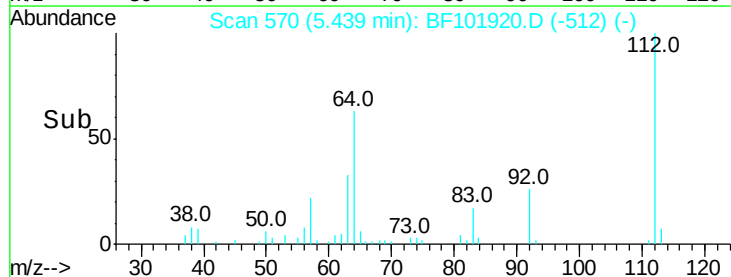
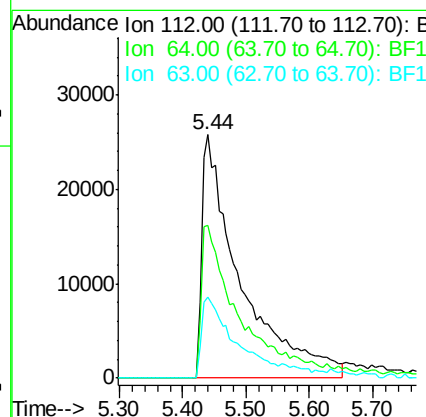
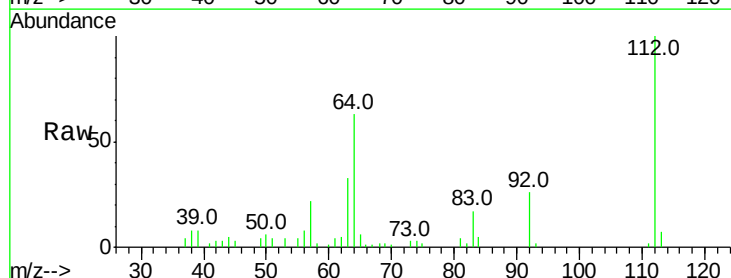
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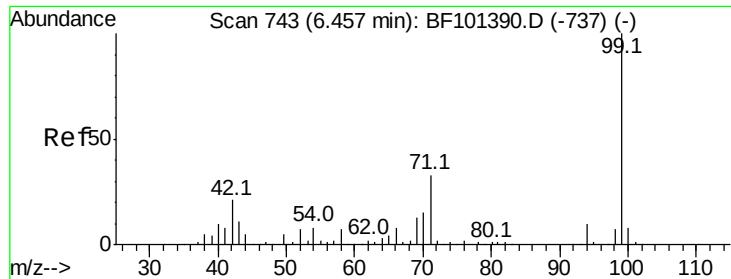


#5

2-Fluorophenol
Concen: 13.622 ng
RT: 5.44 min Scan# 570
Delta R.T. 0.04 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.6	47.9	71.9
63	33.2	23.7	35.5





#7

Phenol-d6

Concen: 14.823 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.04 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Instrument :

BNA_F

ClientSampled :

B-2(5)

Tot Ion: 99 Resp: 146632

Ion Ratio Lower Upper

99 100

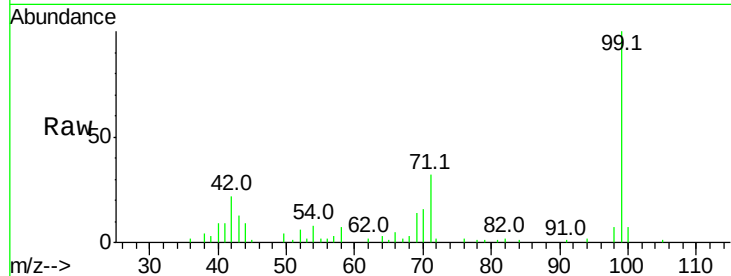
42 22.4 14.5 21.7#

71 31.7 25.4 38.0

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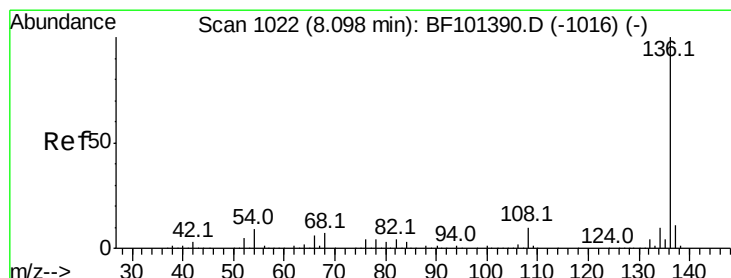
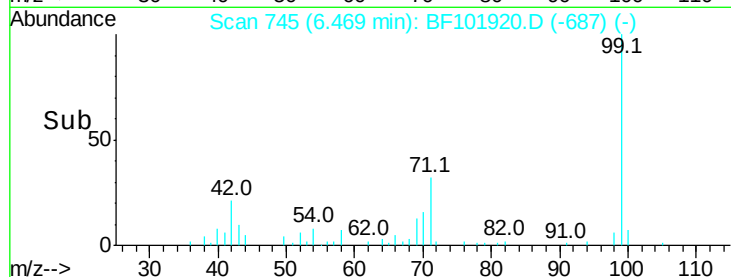
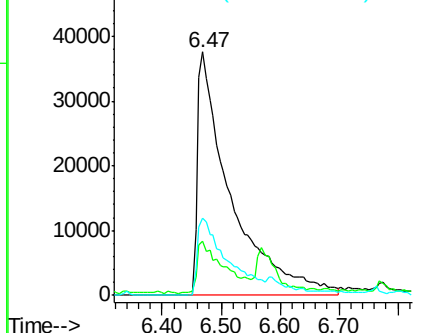
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. 0.01 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Tgt Ion: 136 Resp: 440086

Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 8.8 6.6 9.8

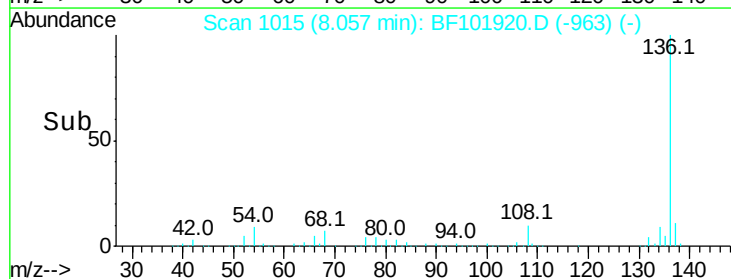
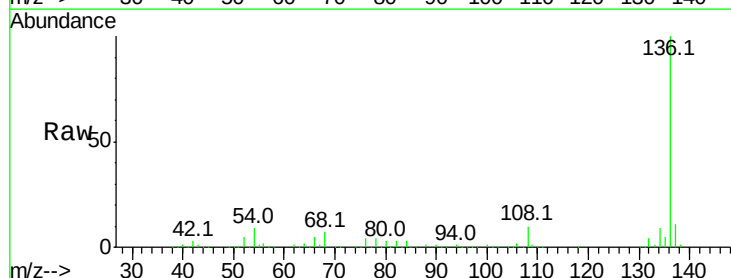
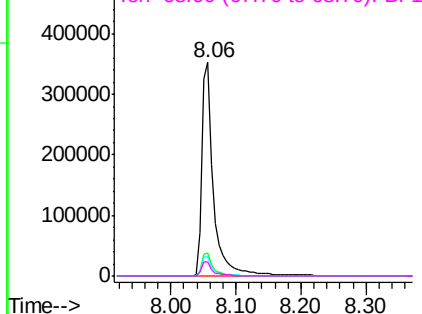
68 6.6 5.0 7.4

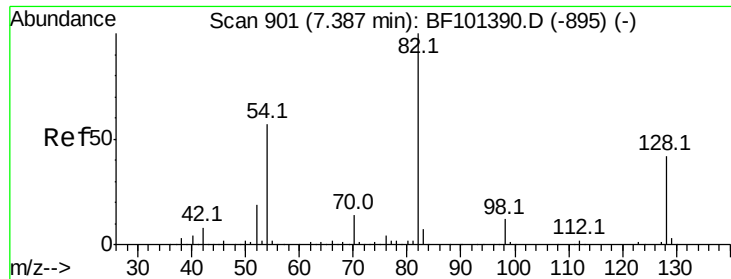
Abundance Ion 136.00 (135.70 to 136.70): E

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





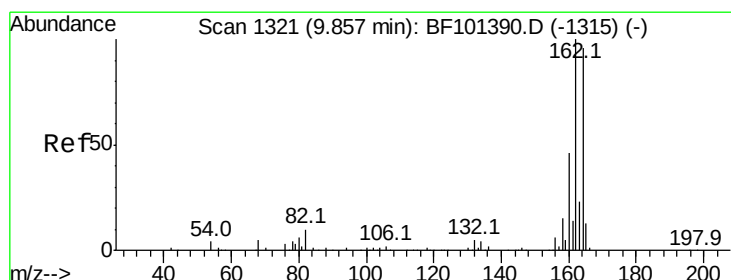
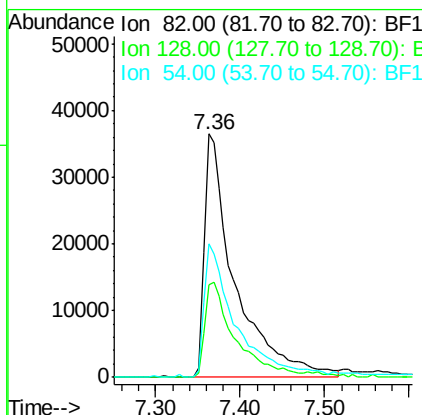
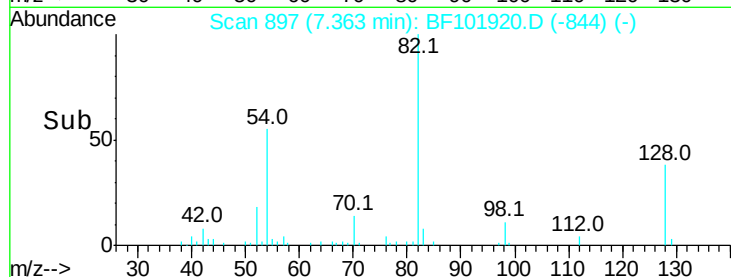
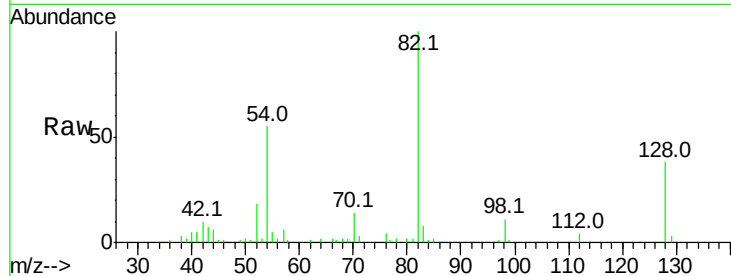
#23
 Nitrobenzene-d5
 Concen: 11.602 ng
 RT: 7.36 min Scan# 897
 Delta R.T. 0.01 min
 Lab File: BF101920.D
 Acq: 5 Jan 2018 10:59

Instrument :
 BNA_F
 ClientSampled :
 B-2(5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.8	36.1	54.1
54	55.0	41.4	62.2

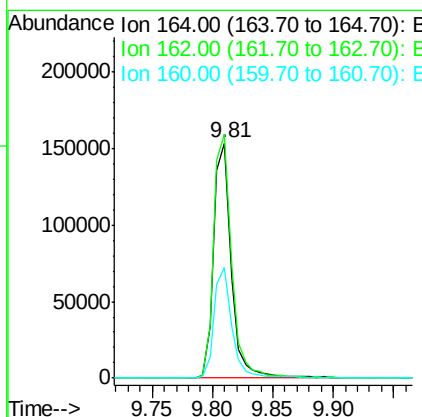
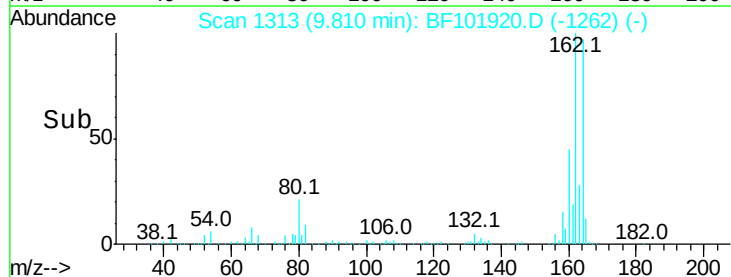
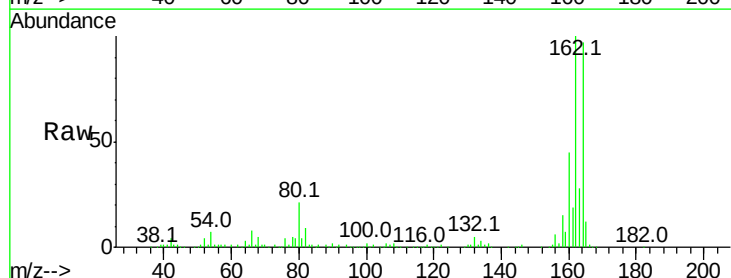
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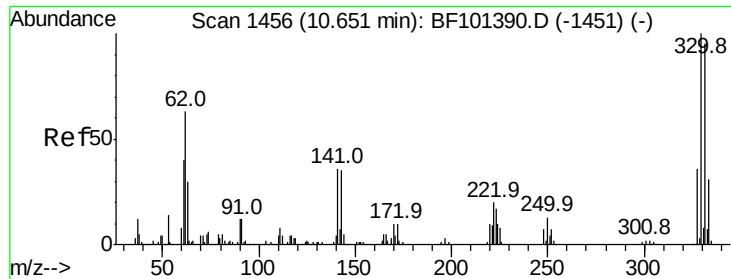
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.00 min
 Lab File: BF101920.D
 Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	46.7	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 6.812 ng

RT: 10.62 min Scan# 1451

Delta R.T. 0.01 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Instrument :

BNA_F

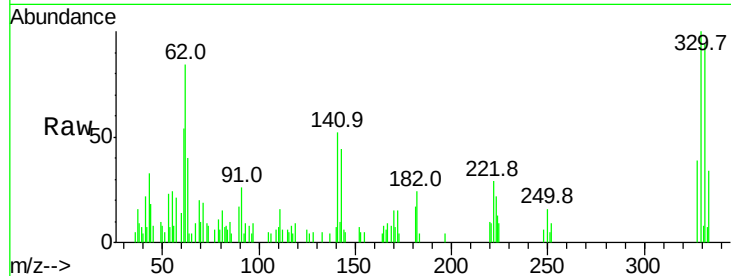
ClientSampled :

B-2(5)

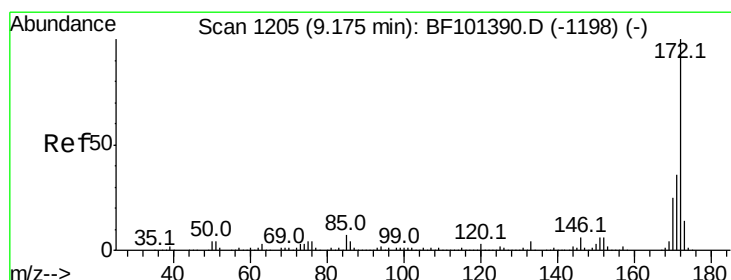
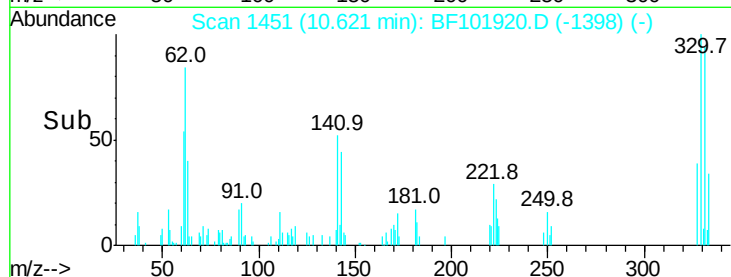
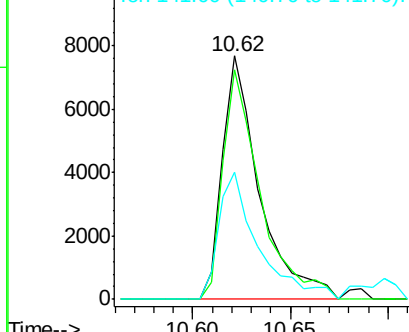
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.1	77.0	115.6	
141	55.3	29.9	44.9#	

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 14.587 ng

RT: 9.13 min Scan# 1197

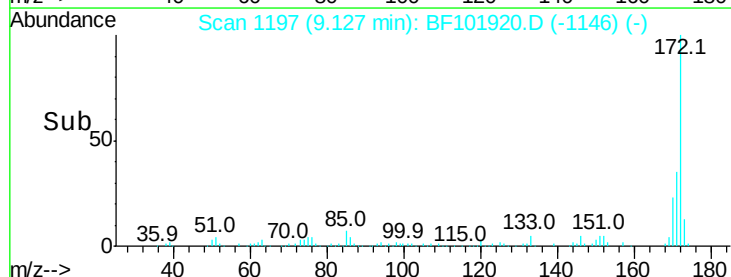
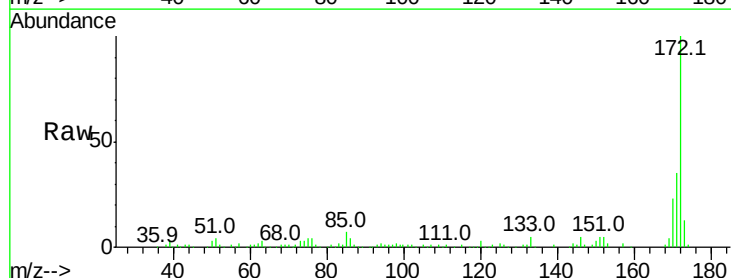
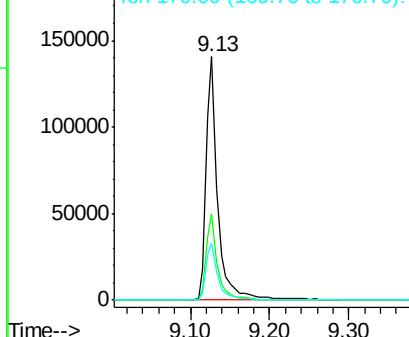
Delta R.T. -0.00 min

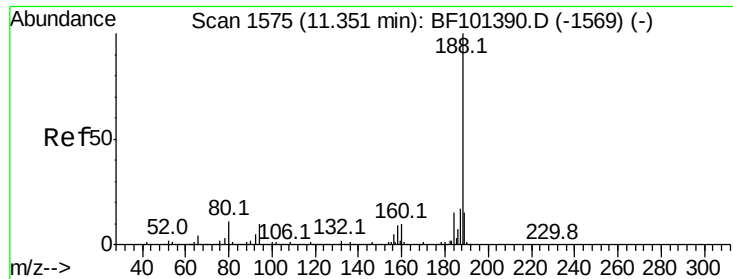
Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.2	29.7	44.5	
170	23.1	19.6	29.4	

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





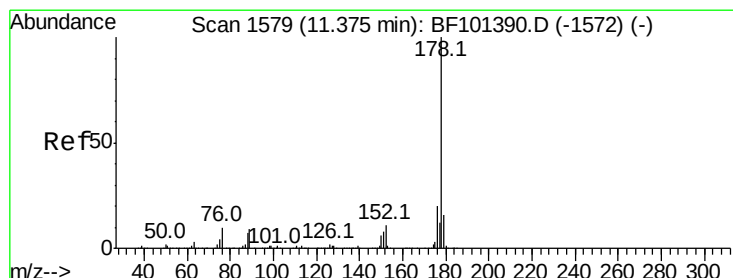
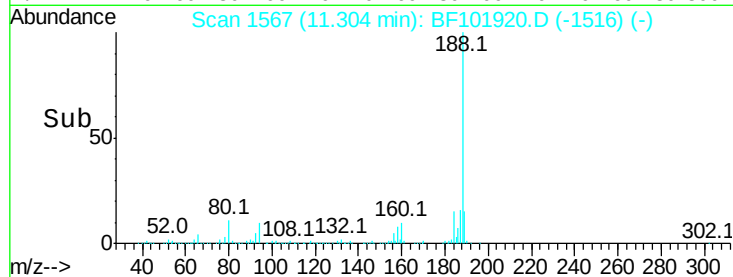
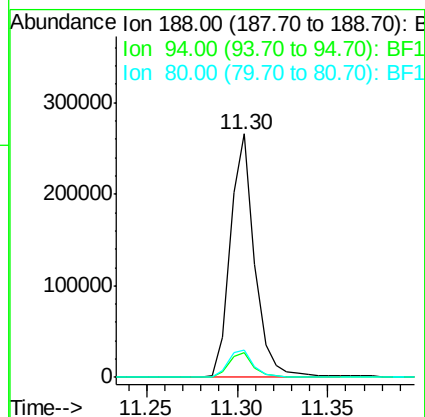
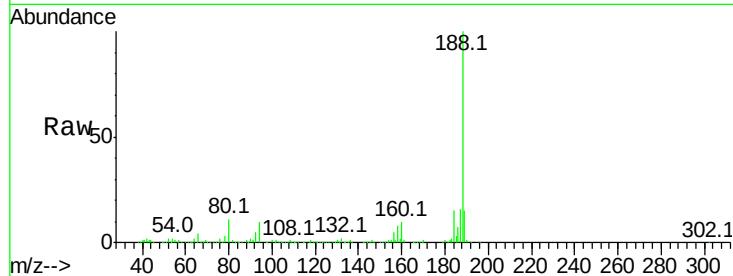
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.30 min Scan# 1567
Delta R.T. -0.00 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Instrument :
BNA_F
ClientSampleId :
B-2(5)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.0	8.5	12.7
80	11.1	9.2	13.8

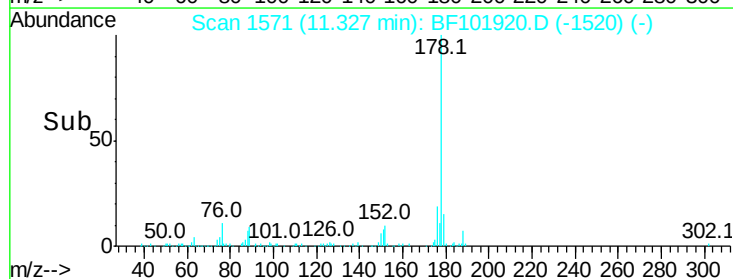
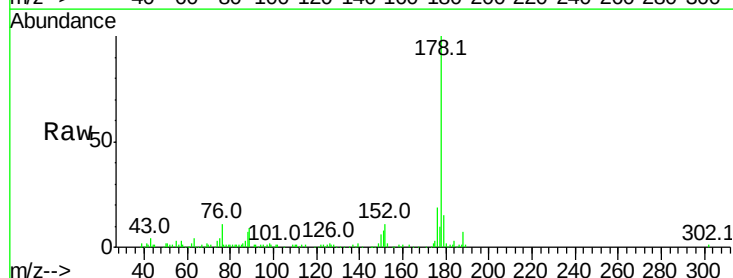
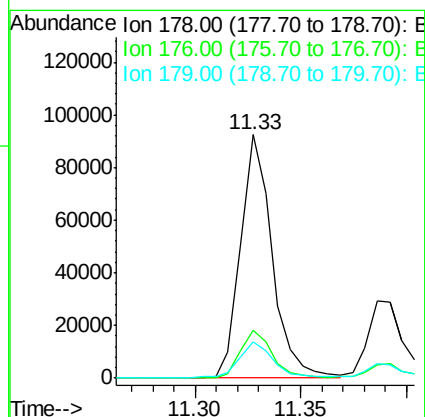
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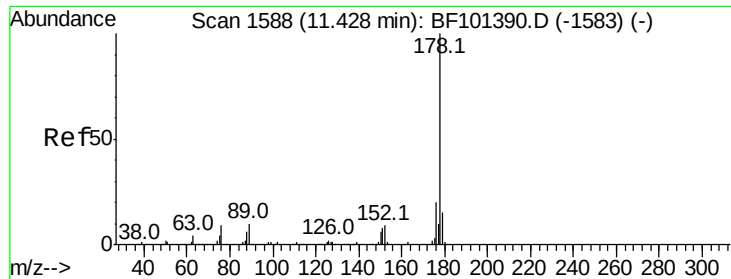
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#70
Phenanthrene
Concen: 6.969 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.0	13.0	19.6





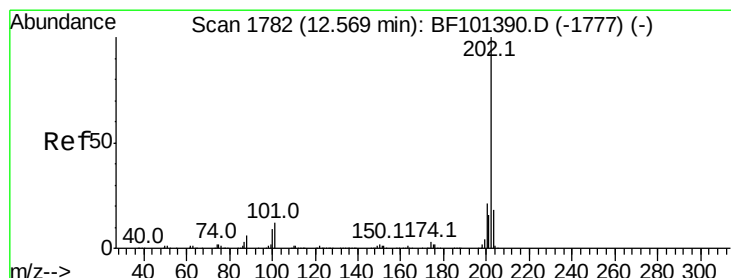
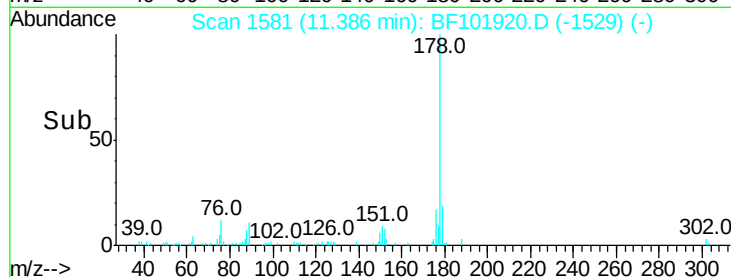
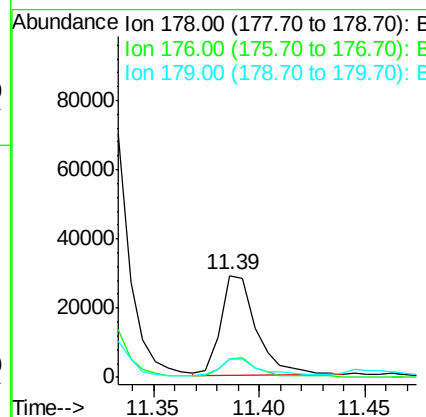
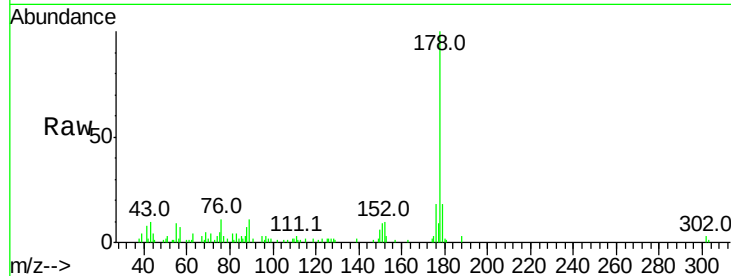
#71
 Anthracene
 Concen: 2.419 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: BF101920.D
 Acq: 5 Jan 2018 10:59

Instrument :
 BNA_F
 ClientSampled :
 B-2(5)

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.4	23.2
179	18.3	12.6	19.0

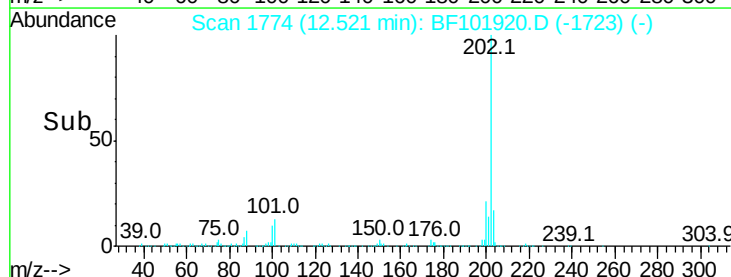
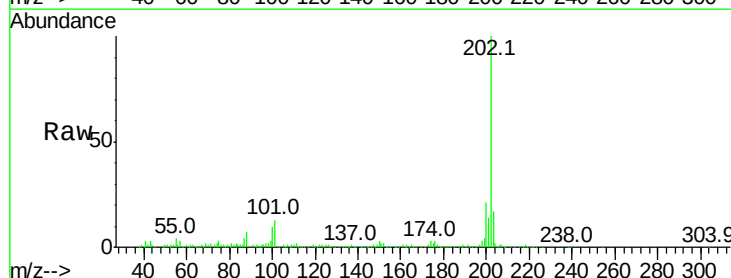
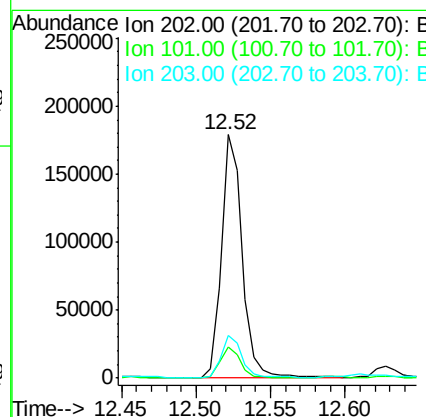
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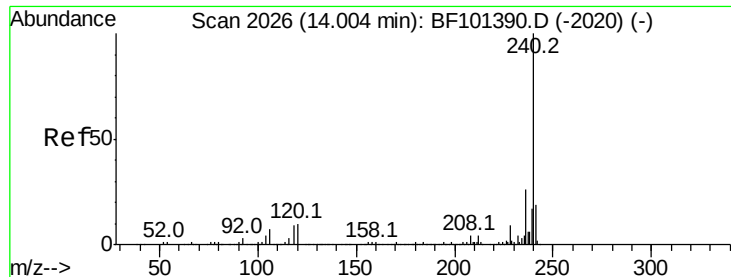
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#74
 Fluoranthene
 Concen: 12.031 ng
 RT: 12.52 min Scan# 1774
 Delta R.T. -0.00 min
 Lab File: BF101920.D
 Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.00 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Instrument :

BNA_F

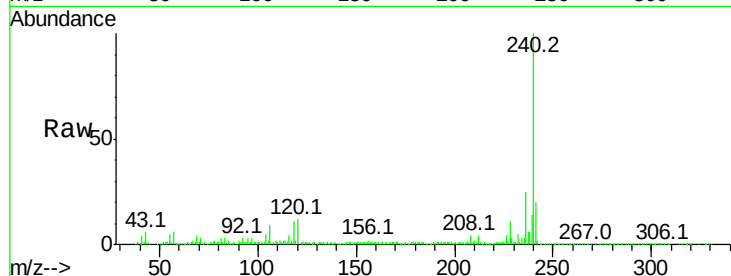
ClientSampled :

B-2(5)

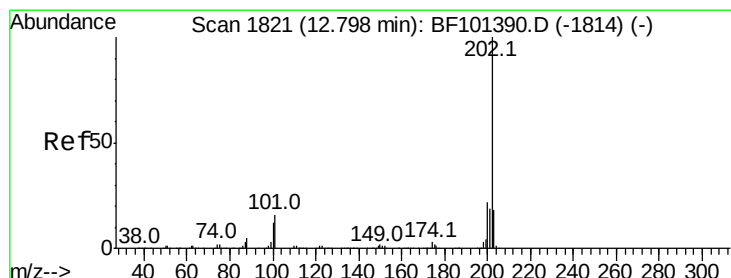
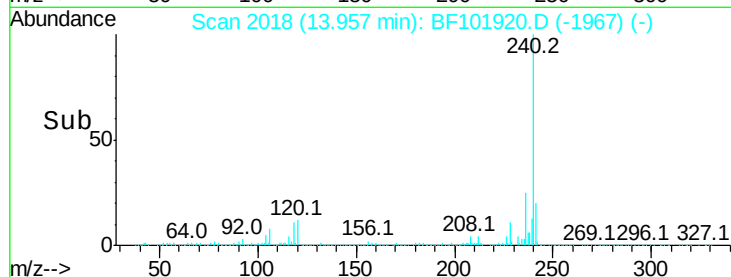
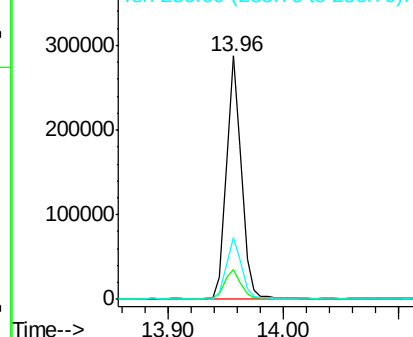
Tot Ion:	240	Resp:	258202
Ion Ratio	Lower	Upper	
240	100		
120	12.4	9.5	14.3
236	25.3	20.7	31.1

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Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 9.038 ng

RT: 12.76 min Scan# 1814

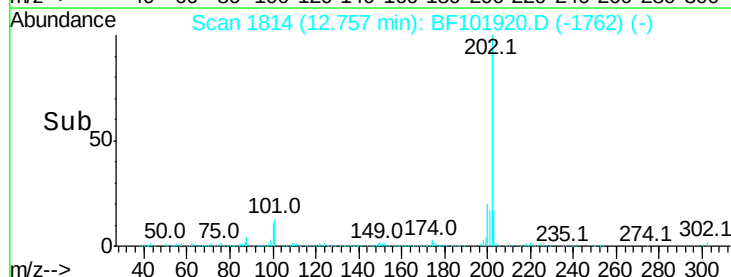
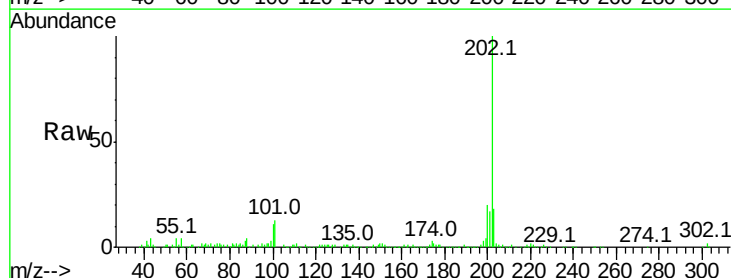
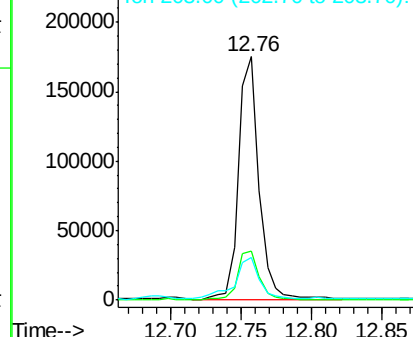
Delta R.T. 0.01 min

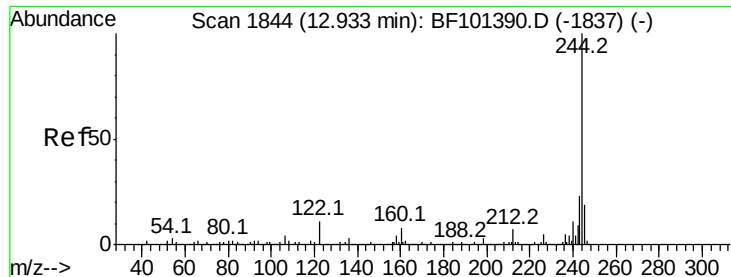
Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Tgt Ion:	202	Resp:	175141
Ion Ratio	Lower	Upper	
202	100		
200	20.4	17.4	26.2
203	17.6	14.3	21.5

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.218 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.00 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Instrument :

BNA_F

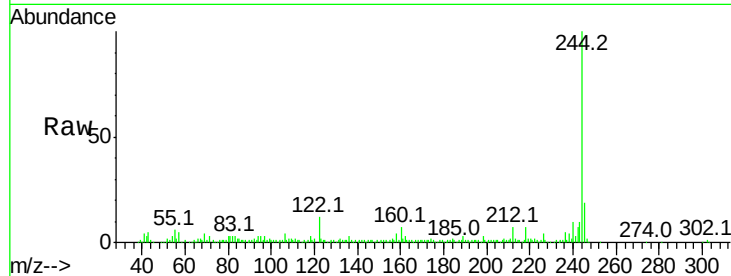
ClientSampled :

B-2(5)

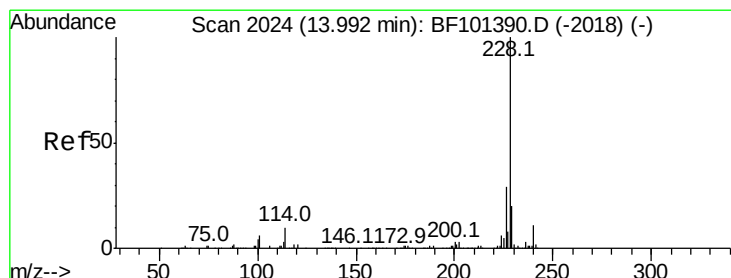
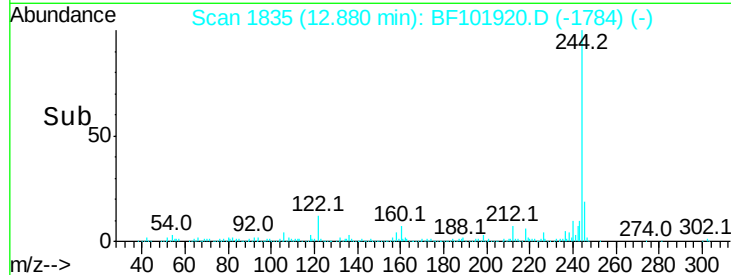
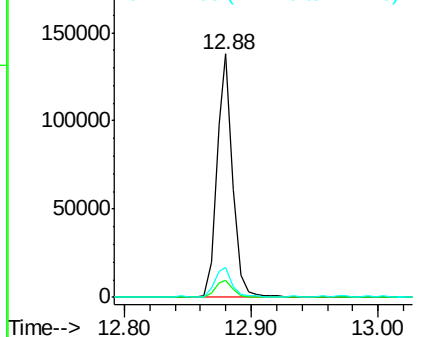
Tot Ion:	244	Resp:	120147
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.4	8.0
122	12.0	11.0	16.4

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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 6.507 ng m

RT: 13.94 min Scan# 2016

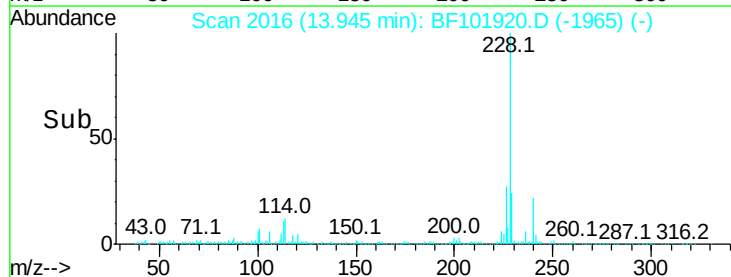
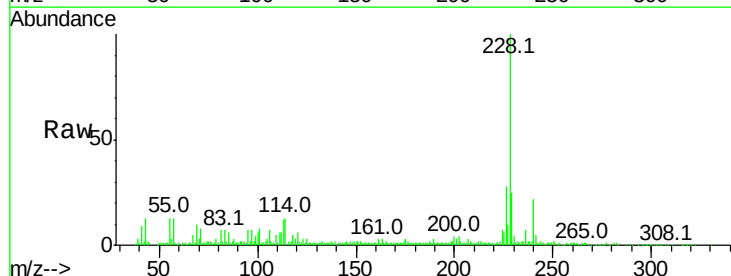
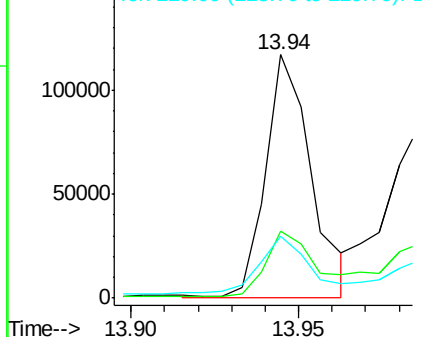
Delta R.T. -0.00 min

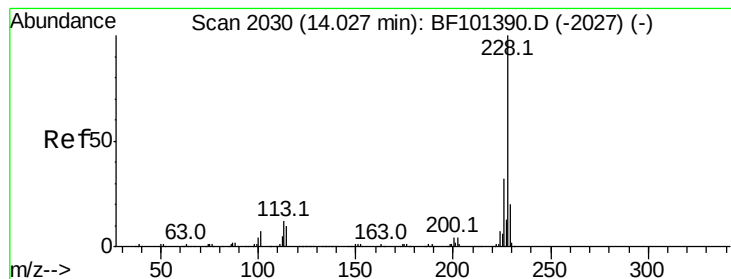
Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Tgt Ion:	228	Resp:	110947
Ion Ratio	Lower	Upper	
228	100		
226	27.7	22.6	33.8
229	25.2	15.8	23.6#

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 5.923 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.00 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Instrument :

BNA_F

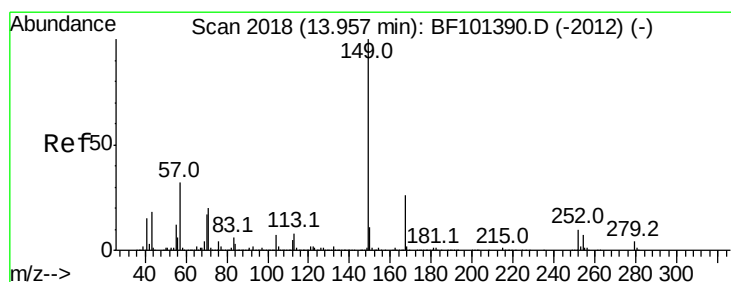
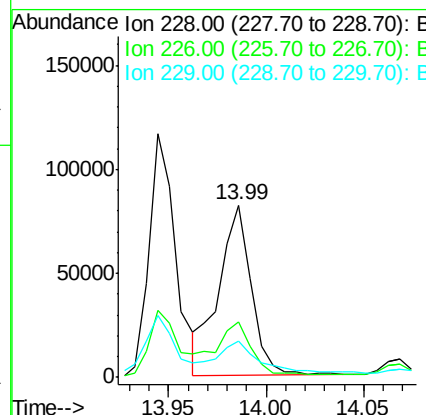
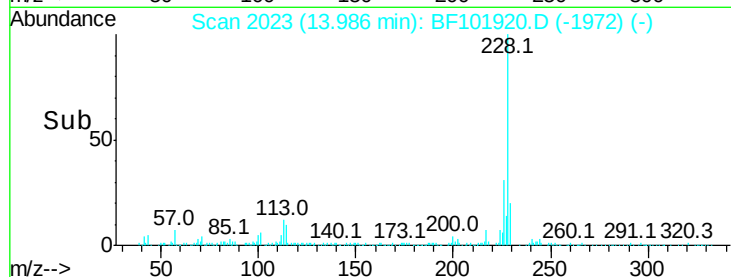
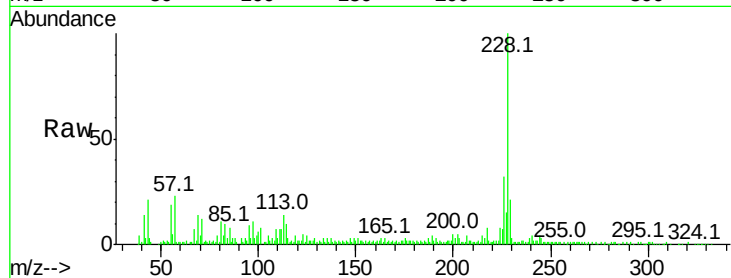
ClientSampleId :

B-2(5)

Tot Ion:	228	Resp:	95352
Ion Ratio	Lower	Upper	
228	100		
226	31.9	25.0	37.6
229	21.4	16.2	24.4

Manual Integrations
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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.562 ng

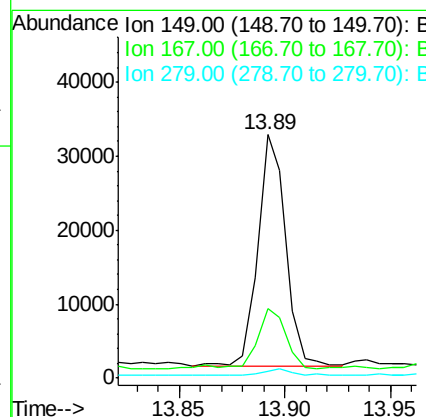
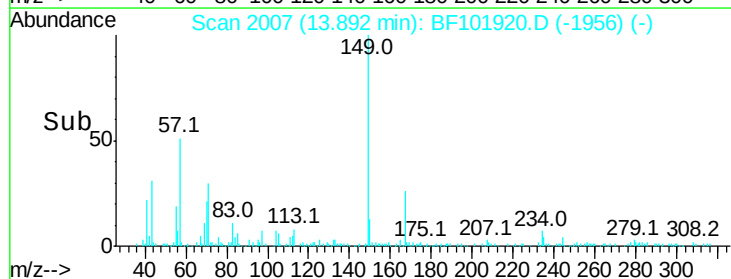
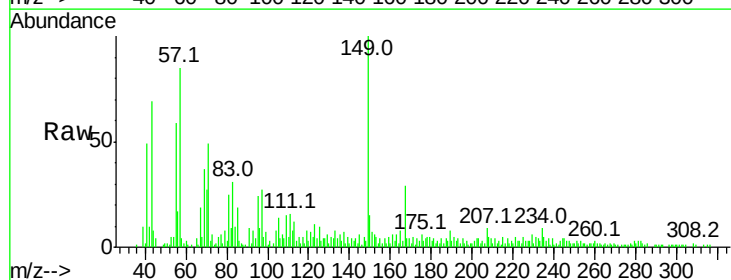
RT: 13.89 min Scan# 2007

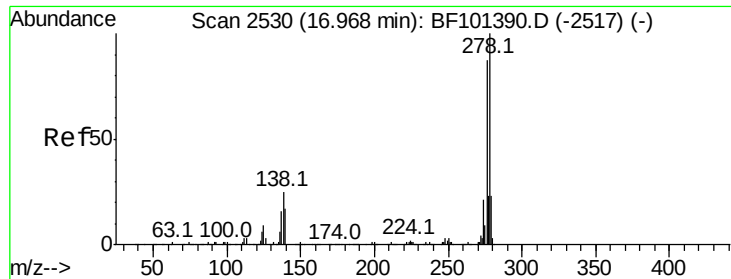
Delta R.T. -0.00 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Tgt Ion:	149	Resp:	28456
Ion Ratio	Lower	Upper	
149	100		
167	28.5	21.3	31.9
279	2.6	3.0	4.4#





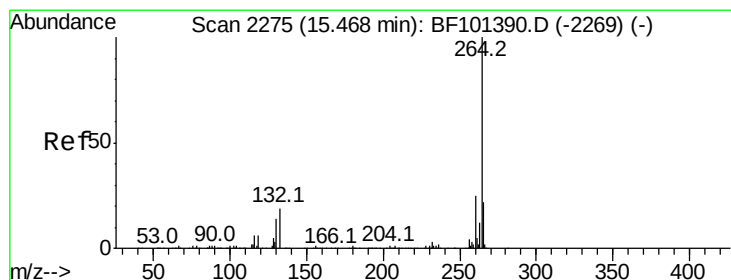
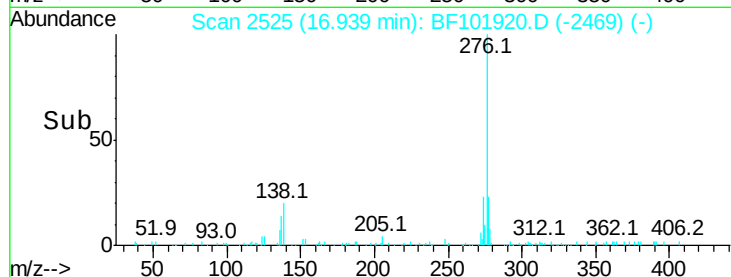
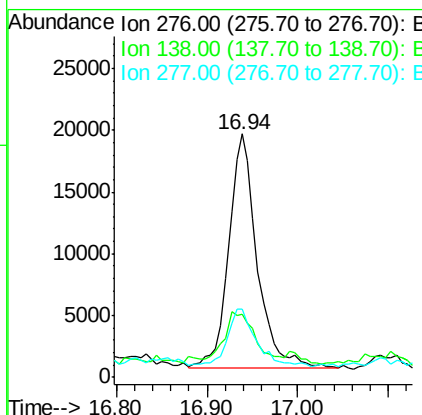
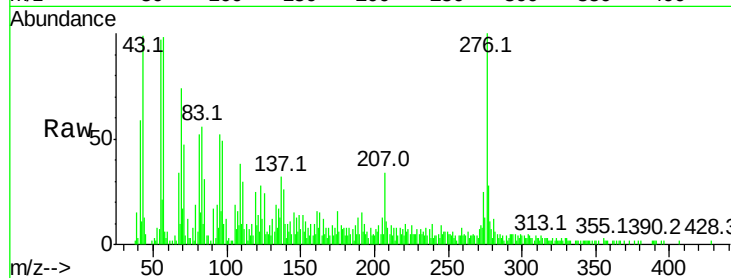
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.840 ng
RT: 16.94 min Scan# 2525
Delta R.T. 0.03 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Instrument :
BNA_F
ClientSampled :
B-2(5)

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.2	25.0	37.6#
277	26.2	20.1	30.1

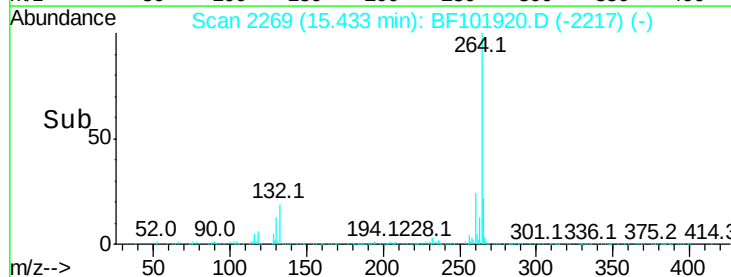
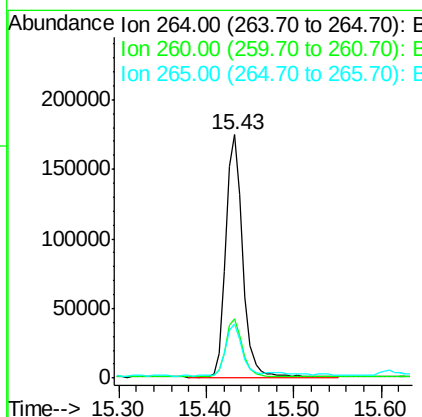
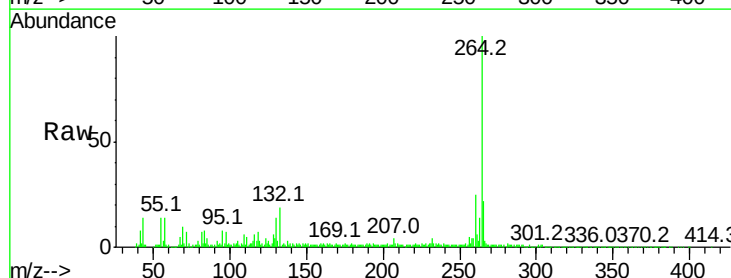
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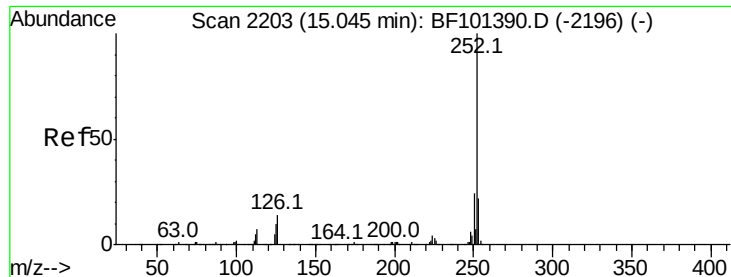
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.01 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.3	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 9.402 ng m

RT: 15.01 min Scan# 2197

Delta R.T. 0.01 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Instrument :

BNA_F

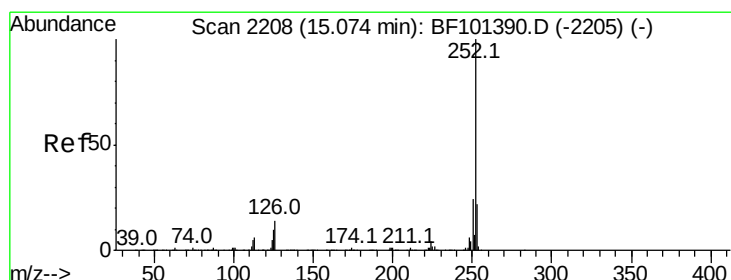
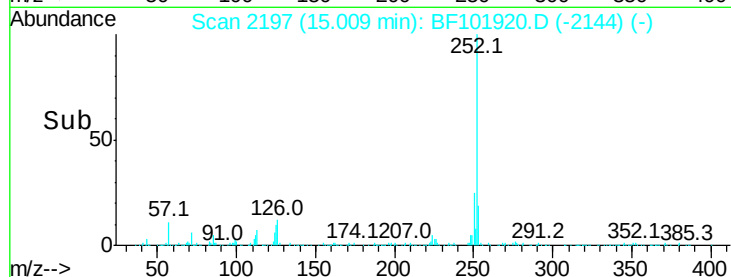
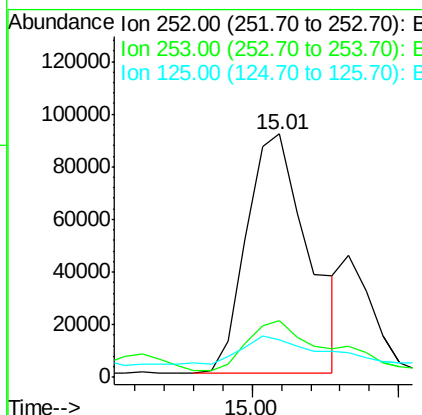
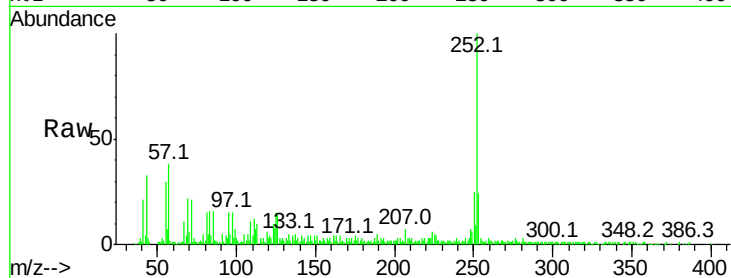
ClientSampleId :

B-2(5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.0	25.6
125	15.3	9.0	13.6

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#88

Benzo(k)fluoranthene

Concen: 2.473 ng m

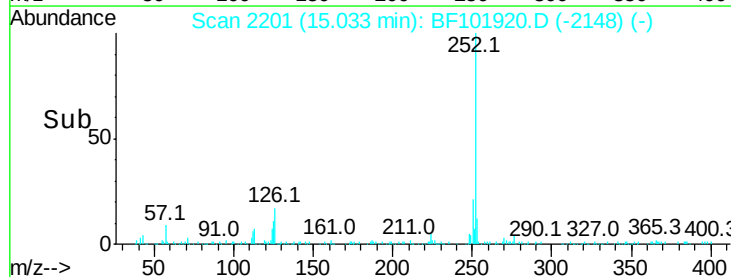
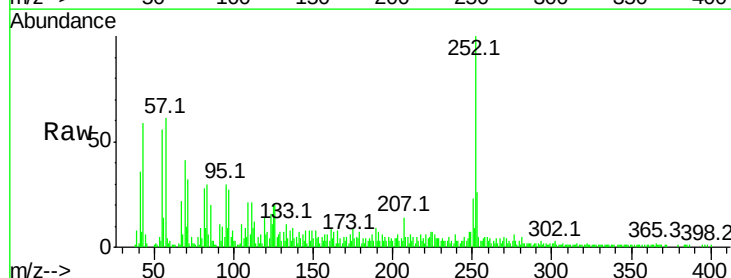
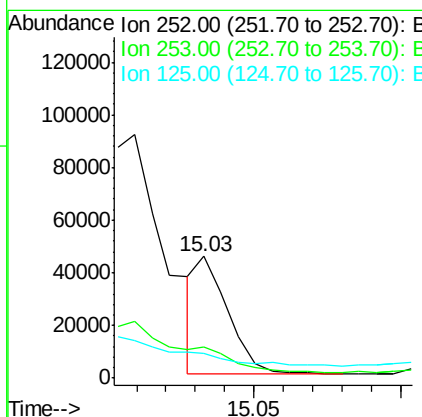
RT: 15.03 min Scan# 2201

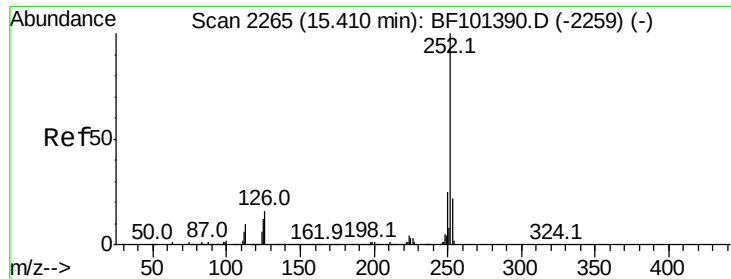
Delta R.T. 0.01 min

Lab File: BF101920.D

Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.6	17.9	26.9
125	20.2	10.2	15.2





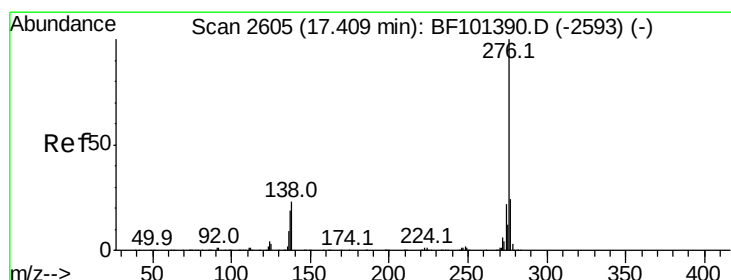
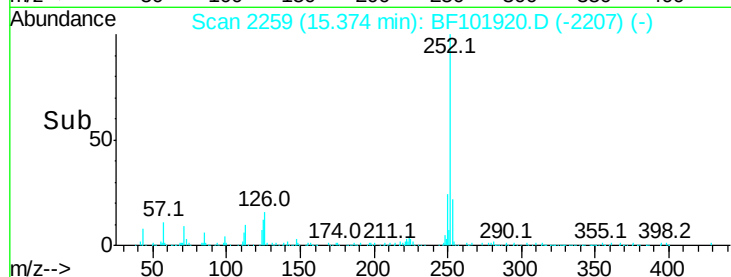
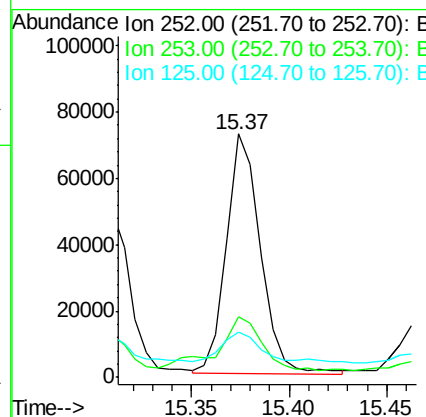
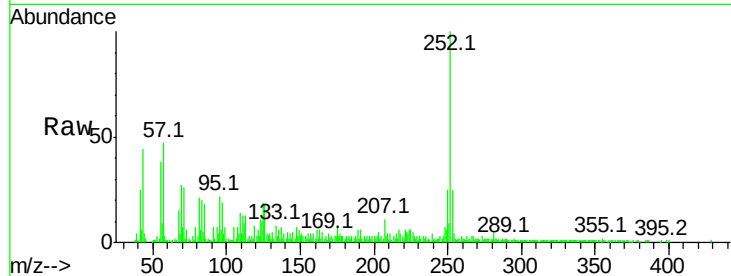
#89
Benzo(a)pyrene
Concen: 6.714 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Instrument :
BNA_F
ClientSampled :
B-2(5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.1	25.7
125	18.7	9.8	14.6

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 3.201 ng
RT: 17.39 min Scan# 2602
Delta R.T. 0.04 min
Lab File: BF101920.D
Acq: 5 Jan 2018 10:59

Tgt Ion	Ratio	Lower	Upper
276	100		
277	27.8	17.9	26.9
138	31.8	21.8	32.8

