

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\
 Data File : BF102737.D
 Acq On : 5 Feb 2018 14:56
 Operator : SJ/JU
 Sample : J1399-03 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-020218-B

Manual Integrations
 APPROVED

Sohil

Quant Time: Feb 05 16:51:35 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 12:44:16 2018
 Response via : Initial Calibration

2/6/2018 2:25:29 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	207831	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	837506	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	353572	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	517830	20.00	ng	0.00
75) Chrysene-d12	14.04	240	325793	20.00	ng	0.00
86) Perylene-d12	15.53	264	288218	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.48	112	345483	25.25	ng	-0.01
7) Phenol-d6	6.49	99	410534	24.91	ng	-0.01
23) Nitrobenzene-d5	7.43	82	228635	18.94	ng	-0.02
41) 2,4,6-Tribromophenol	10.70	330	68533	24.08	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	395289	18.55	ng	-0.01
78) Terphenyl-d14	12.99	244	248779	18.08	ng	-0.01

Target Compounds

						Qvalue
31) Naphthalene	8.19	128	201877	4.934	ng	98
37) 2-Methylnaphthalene	8.87	142	88312	3.296	ng	99
48) Acenaphthylene	9.78	152	90831	2.494	ng	98
51) Acenaphthene	9.95	154	186931	8.584	ng	97
54) Dibenzofuran	10.12	168	193175	6.294	ng	99
57) Fluorene	10.47	166	281249	12.596	ng	100
70) Phenanthrene	11.43	178	1395112	48.375	ng	99
71) Anthracene	11.48	178	478889	16.326	ng	98
72) Carbazole	11.63	167	138269	4.812	ng	99
74) Fluoranthene	12.62	202	1492372	51.432	ng	99
77) Pyrene	12.85	202	1286943	50.375	ng	99
80) Benzo(a)anthracene	14.04	228	640839	31.277	ng	97
82) Chrysene	14.07	228	570614	27.627	ng	97
85) Indeno(1,2,3-cd)pyrene	17.02	276	237658	13.874	ng	94
87) Benzo(b)fluoranthene	15.09	252	625384m	33.468	ng	
88) Benzo(k)fluoranthene	15.12	252	237873m	13.323	ng	
89) Benzo(a)pyrene	15.46	252	447515	26.606	ng	# 94
90) Dibenzo(a,h)anthracene	17.02	278	59504	4.359	ng	# 80
91) Benzo(a,h,i)perylene	17.47	276	212555	15.907	ng	98

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

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ALS Vial : 12 Sample Multiplier: 1

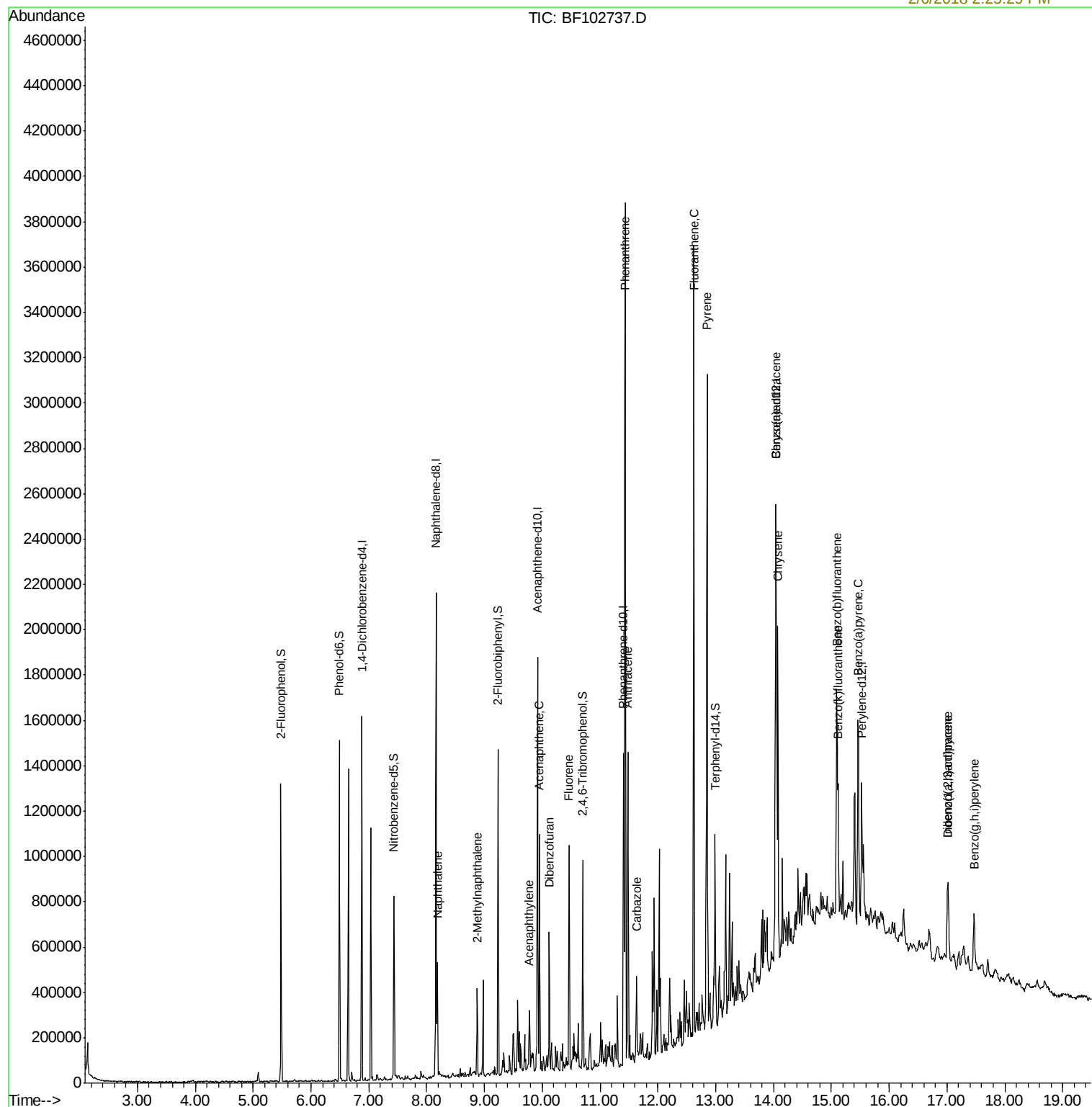
Instrument :
BNA_F
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OR-01-020218-B

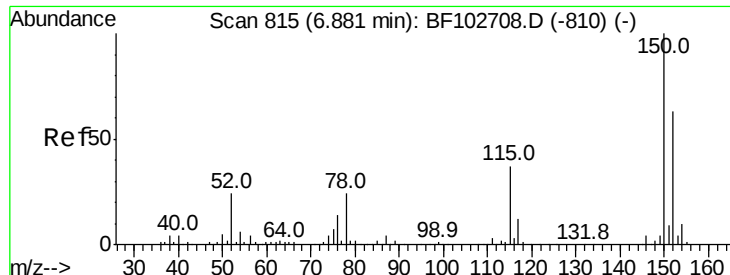
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
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#1

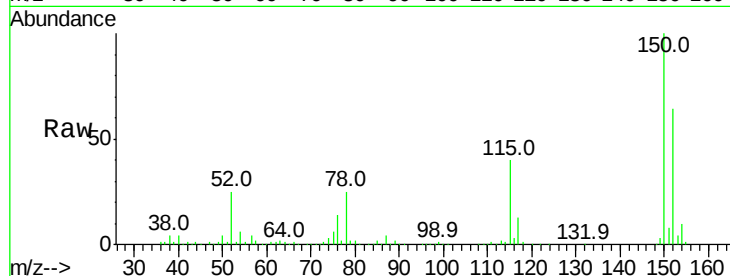
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.00 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
BNA_F
ClientSampleId :
OR-01-020218-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	124.6	186.8
115	62.0	50.1	75.1

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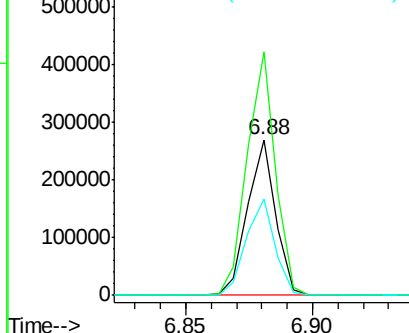


Abundance

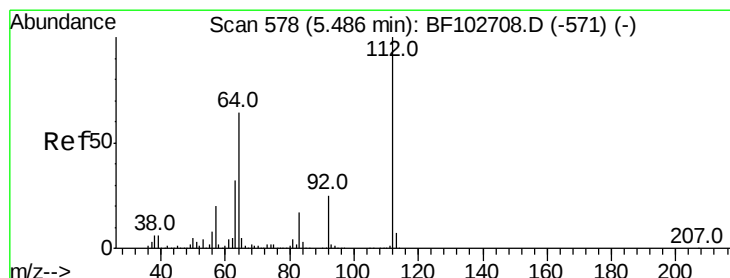
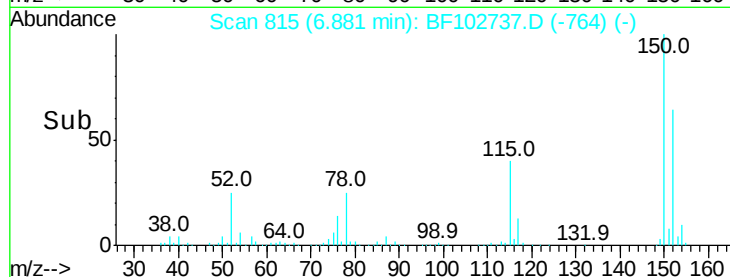
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



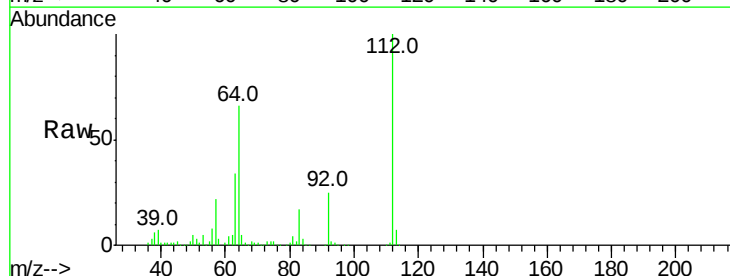
2/6/2018 2:25:29 PM



#5

2-Fluorophenol
Concen: 25.245 ng
RT: 5.48 min Scan# 577
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.2	47.9	71.9
63	34.1	23.7	35.5

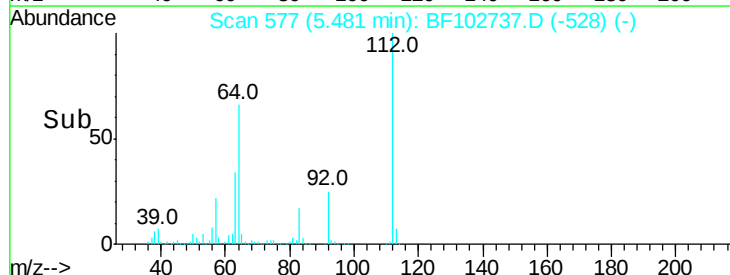
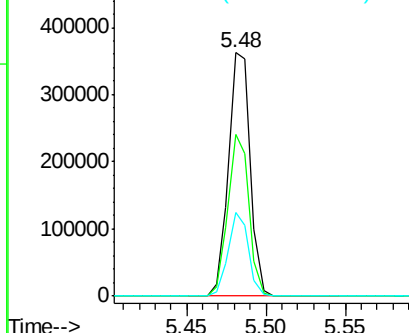


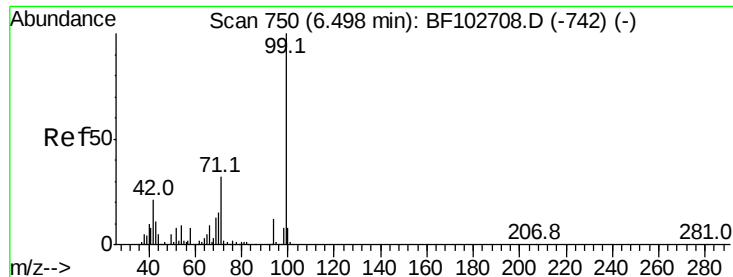
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 24.914 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Instrument :

BNA_F

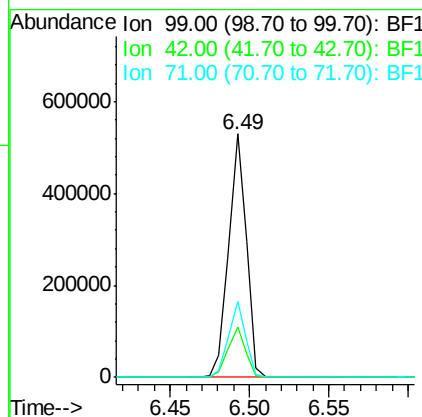
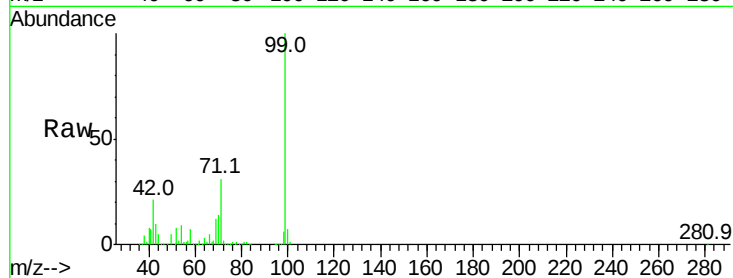
ClientSampled :

OR-01-020218-B

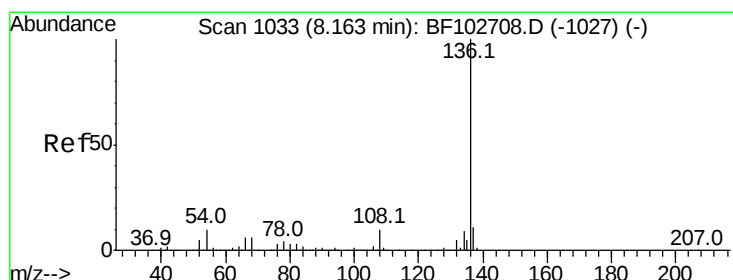
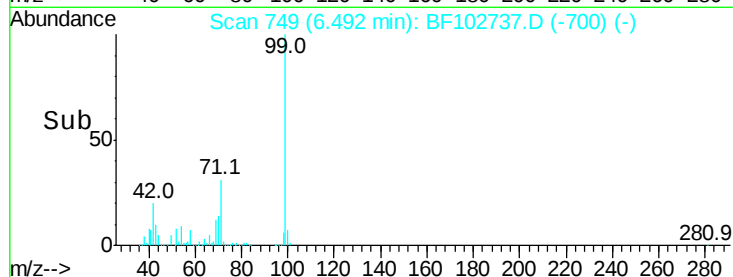
Tot Ion:	99	Resp:	410534
Ion Ratio	Lower	Upper	
99	100		
42	20.5	14.5	21.7
71	31.3	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

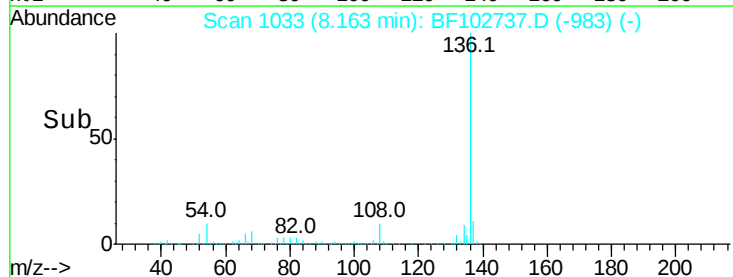
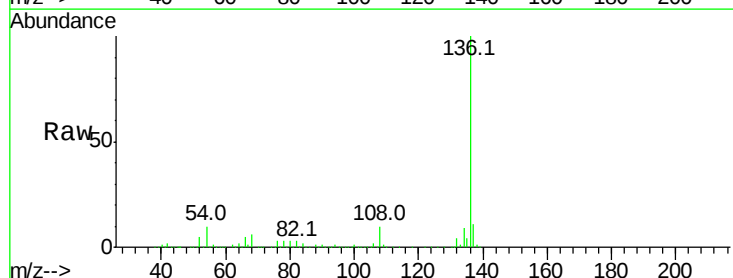
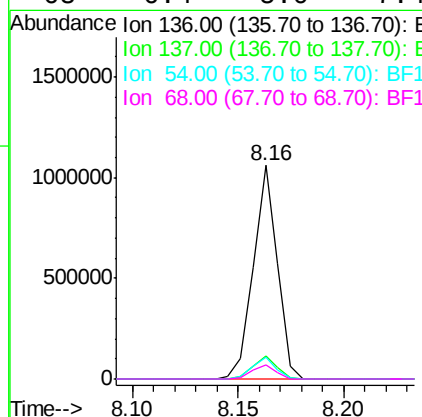
RT: 8.16 min Scan# 1033

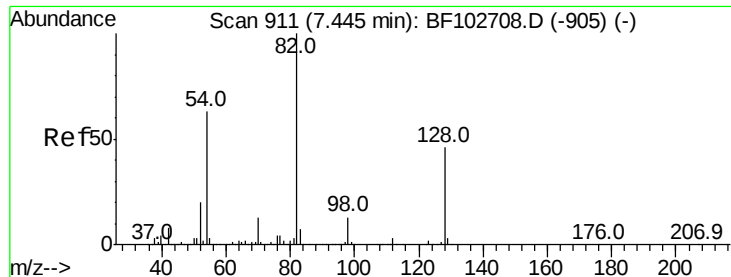
Delta R.T. -0.01 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Tgt Ion:	136	Resp:	837506
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	10.0	6.6	9.8#
68	6.4	5.0	7.4





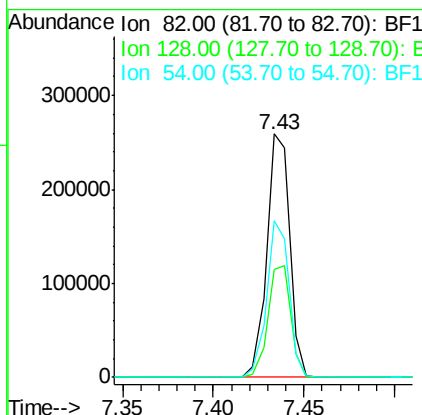
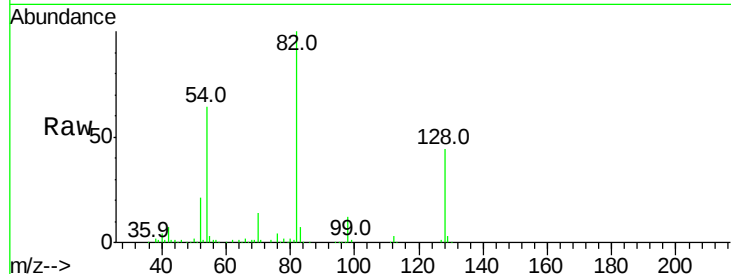
#23
Nitrobenzene-d5
Concen: 18.938 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.02 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
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OR-01-020218-B

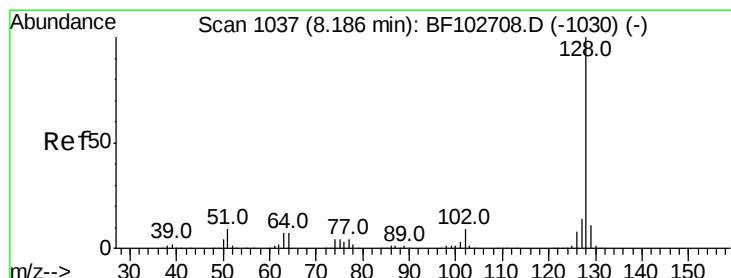
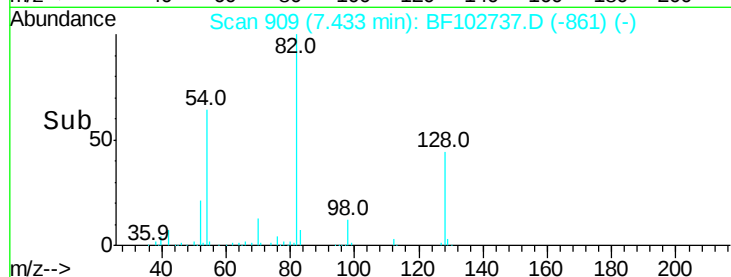
Tot Ion	Ratio	Lower	Upper
82	100		
128	44.4	36.1	54.1
54	64.1	41.4	62.2

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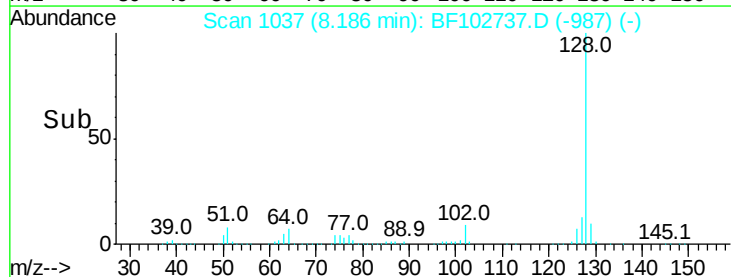
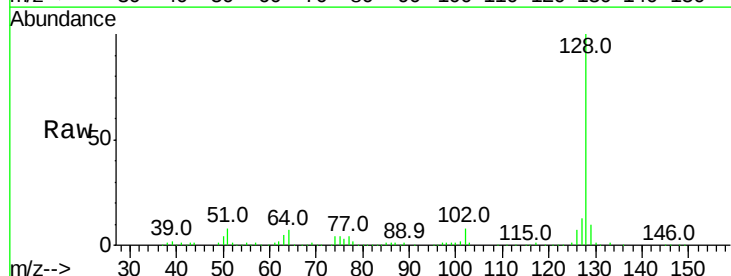
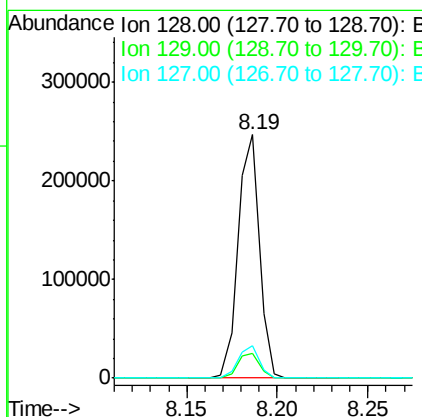


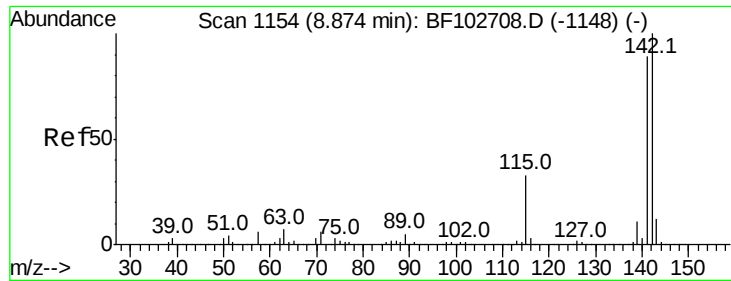
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#31
Naphthalene
Concen: 4.934 ng
RT: 8.19 min Scan# 1037
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.1	8.8	13.2
127	13.2	10.9	16.3





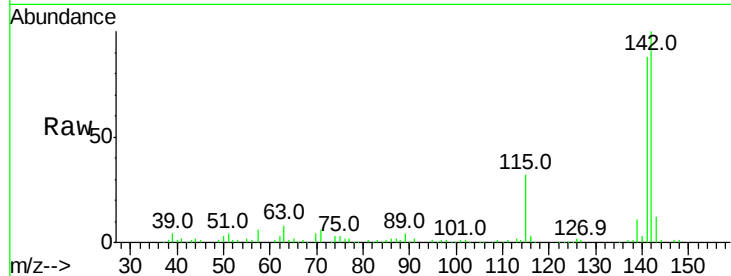
#37
2-Methylnaphthalene
Concen: 3.296 ng
RT: 8.87 min Scan# 1154
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
BNA_F
ClientSampleId :
OR-01-020218-B

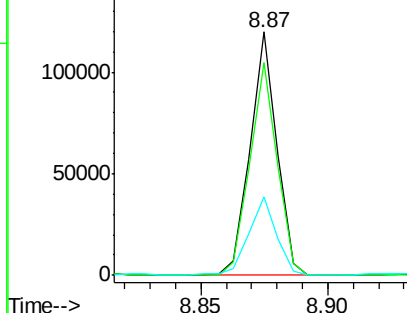
Tot Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2
115	32.3	26.1	39.1

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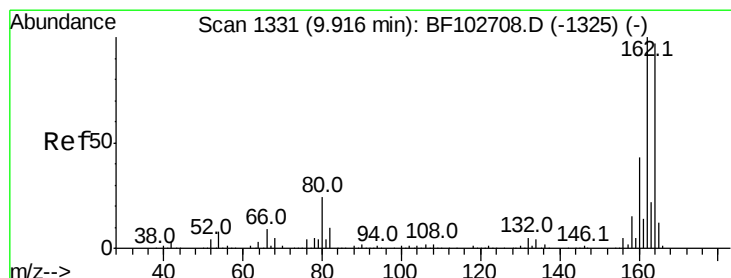
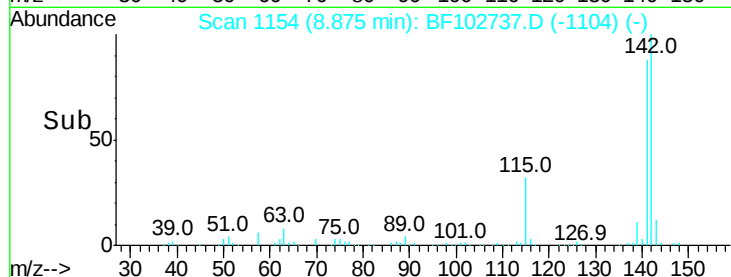
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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

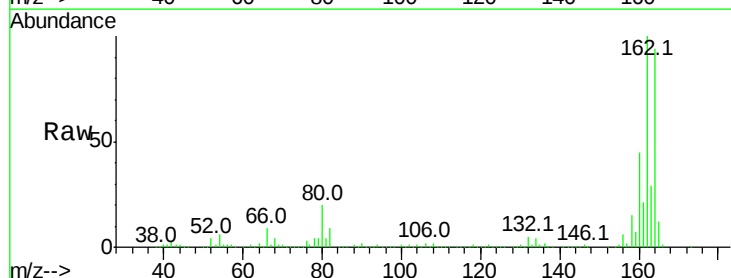


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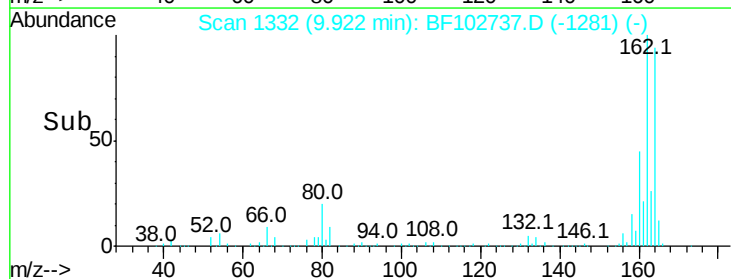
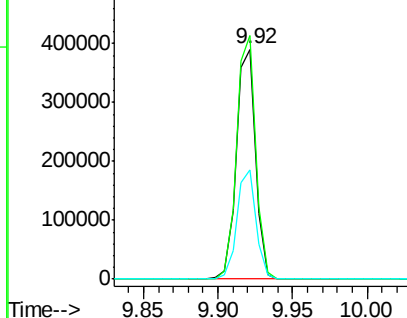


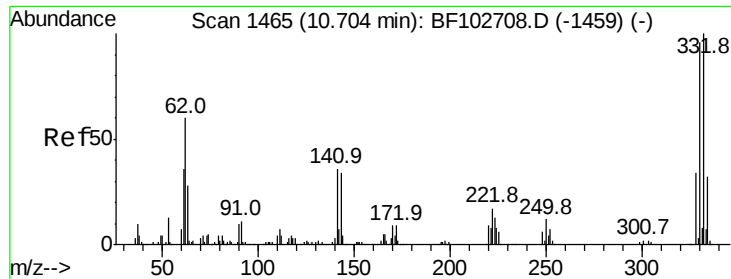
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.00 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.8	86.1	129.1
160	47.4	38.3	57.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





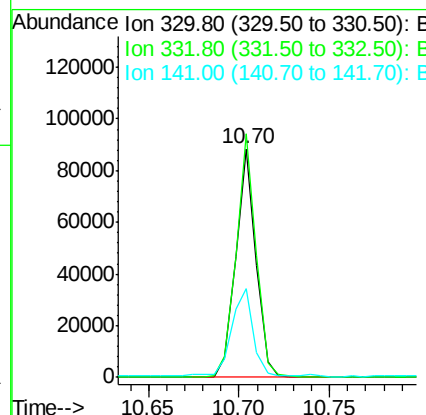
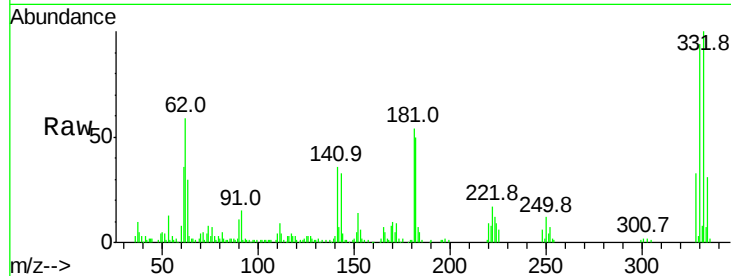
#41
 2,4,6-Tribromophenol
 Concen: 24.082 ng
 RT: 10.70 min Scan# 1465
 Delta R.T. -0.01 min
 Lab File: BF102737.D
 Acq: 5 Feb 2018 14:56

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-020218-B

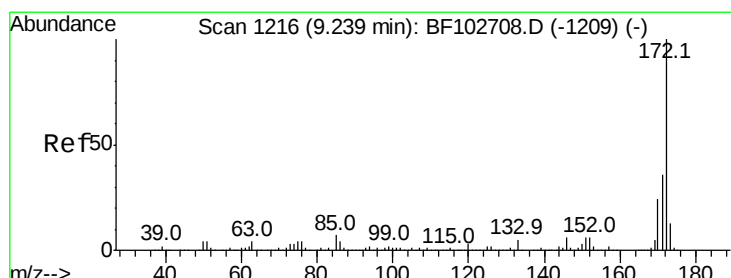
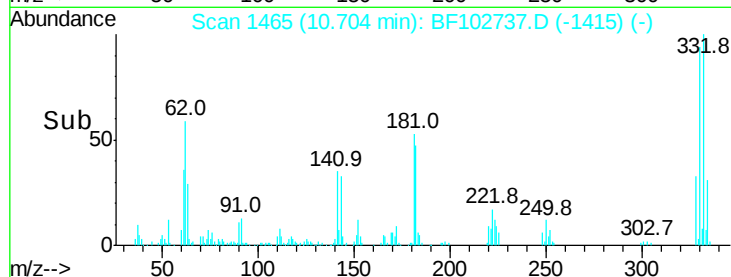
Tot Ion	Ratio	Lower	Upper
330	100		
332	104.7	77.0	115.6
141	41.5	29.9	44.9

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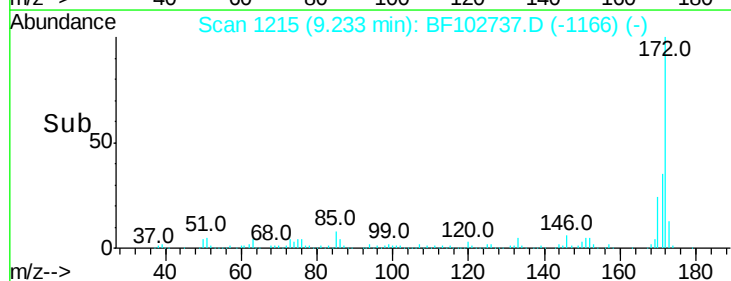
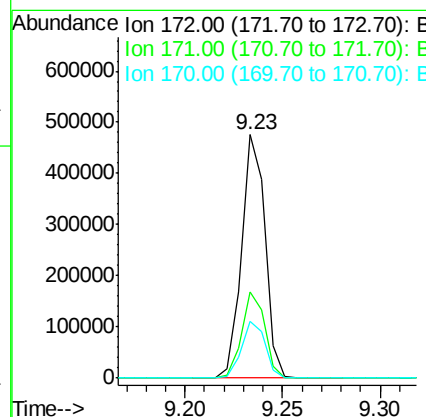
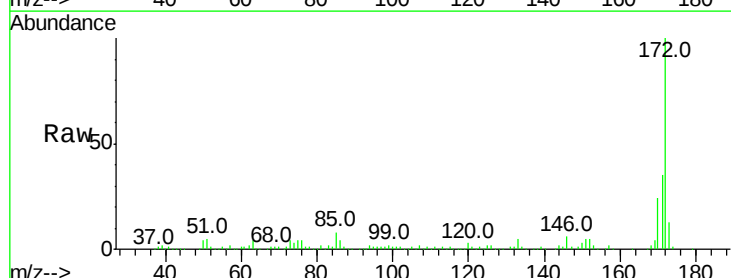


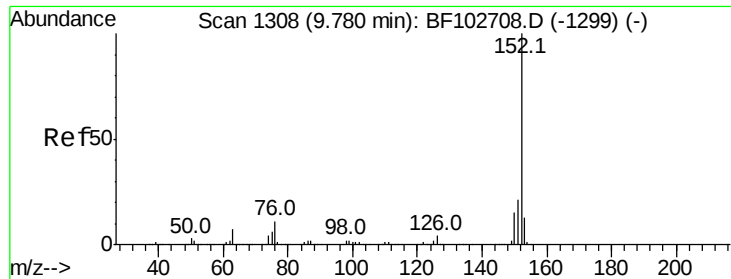
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#44
 2-Fluorobiphenyl
 Concen: 18.551 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF102737.D
 Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.5	19.6	29.4





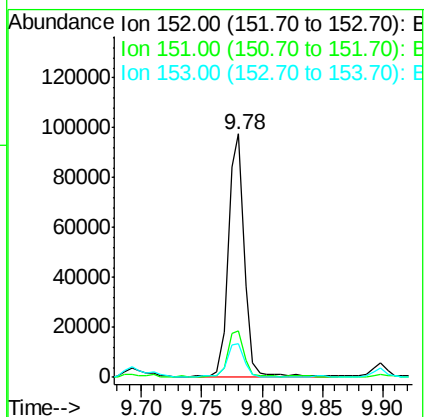
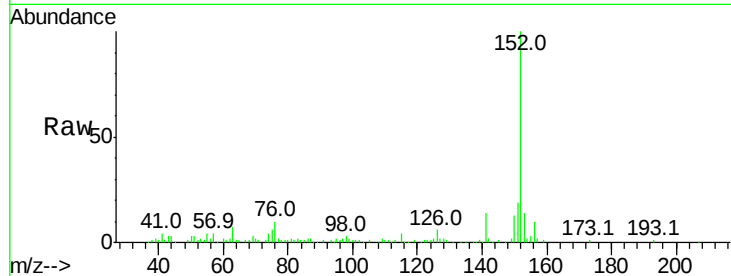
#48
Acenaphthylene
Concen: 2.494 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
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ClientSampleId :
OR-01-020218-B

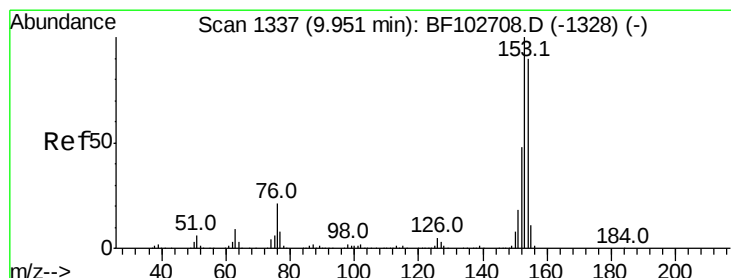
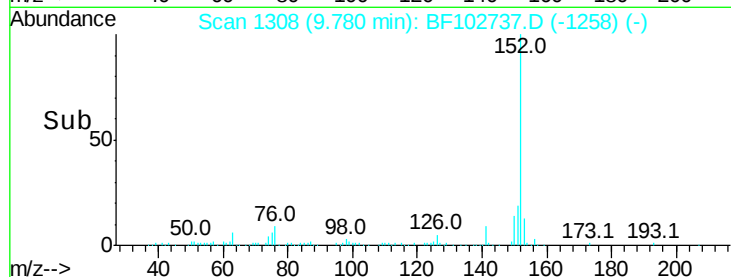
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.3	24.5
153	14.1	10.7	16.1

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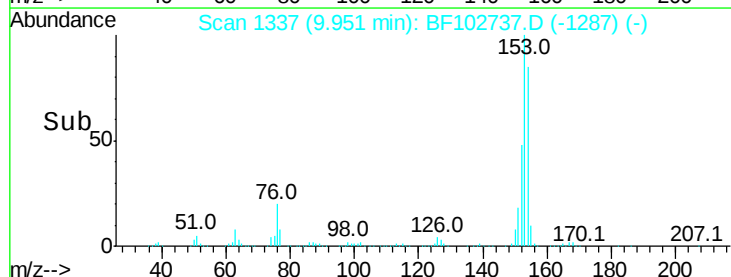
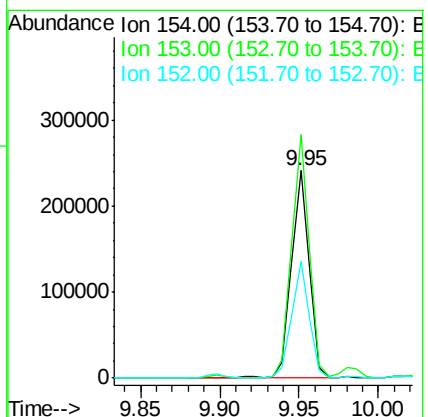
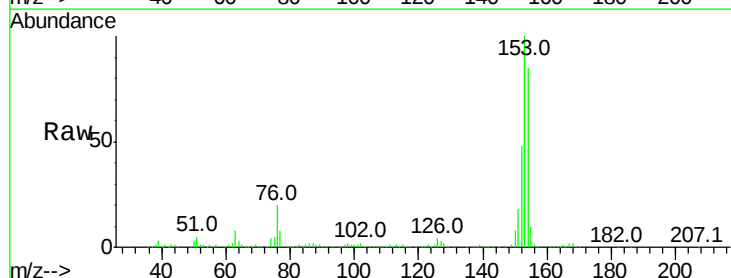


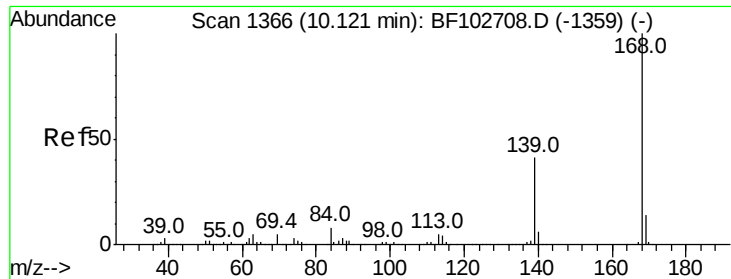
2/6/2018 2:25:29 PM



#51
Acenaphthene
Concen: 8.584 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.4	91.2	136.8
152	56.4	43.8	65.8





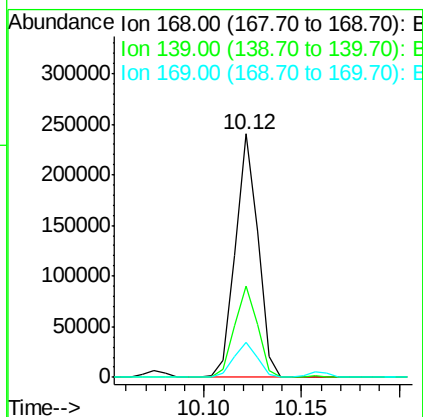
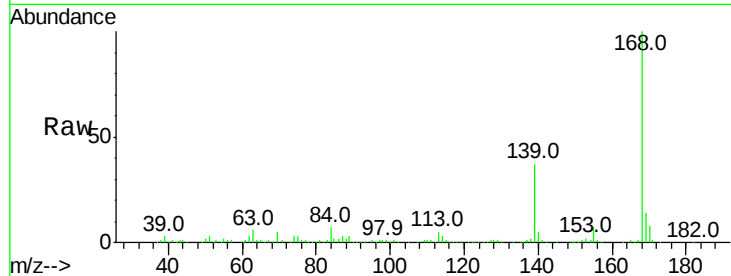
#54
Dibenzenofuran
Concen: 6.294 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
BNA_F
ClientSampleId :
OR-01-020218-B

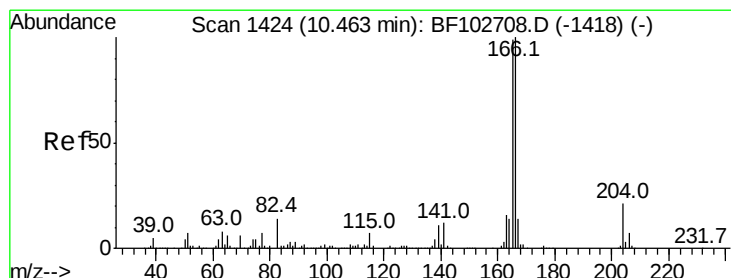
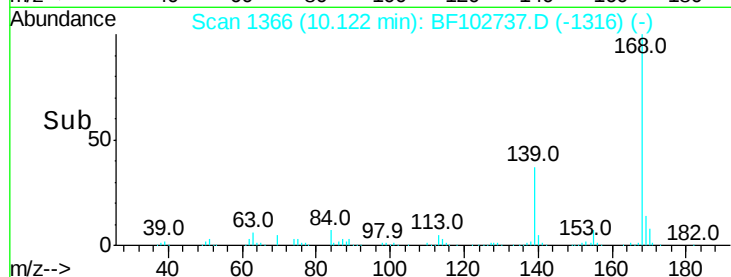
Tot Ion	Ratio	Resp	Lower	Upper
168	100	193175		
139	37.3		30.1	45.1
169	14.1		10.9	16.3

Manual Integrations
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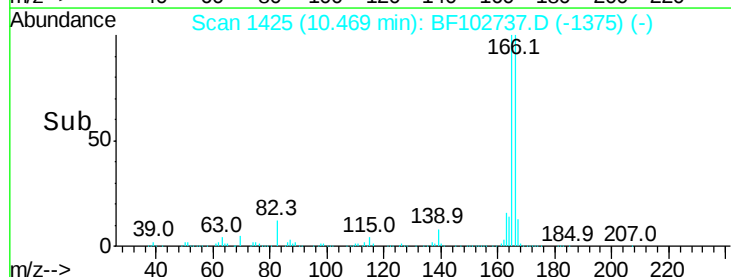
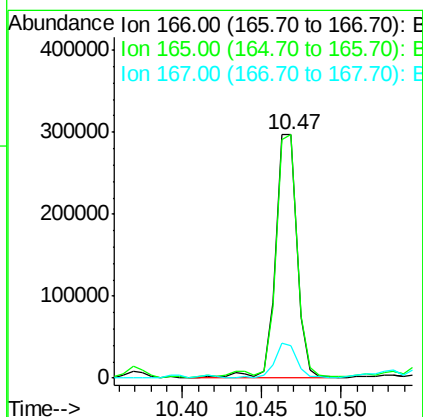
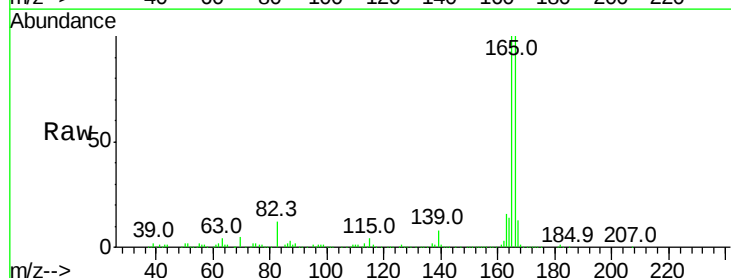


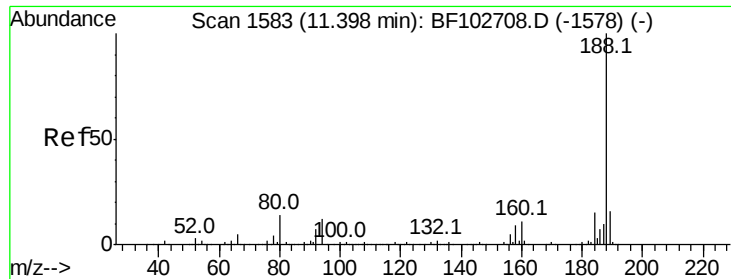
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#57
Fluorene
Concen: 12.596 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	281249		
165	99.9		79.8	119.8
167	13.3		10.6	16.0





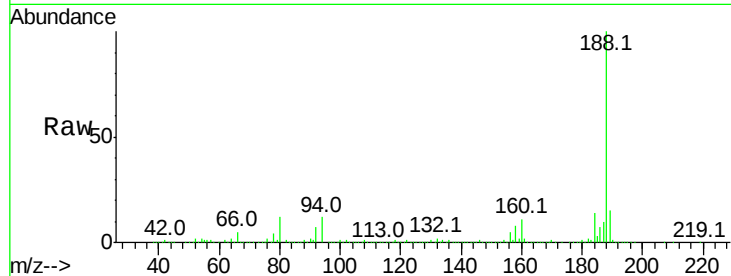
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
BNA_F
ClientSampleId :
OR-01-020218-B

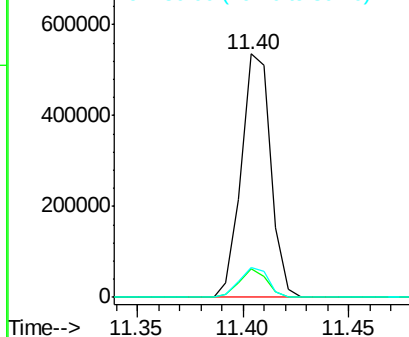
Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	11.9	8.5	12.7	
80	12.3	9.2	13.8	

Manual Integrations
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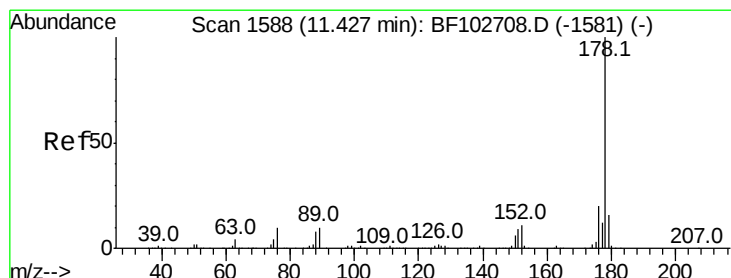
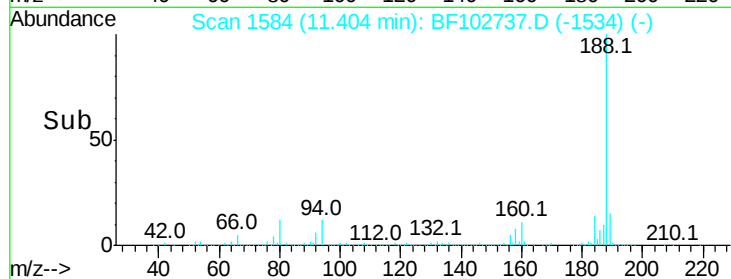
Sohil



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

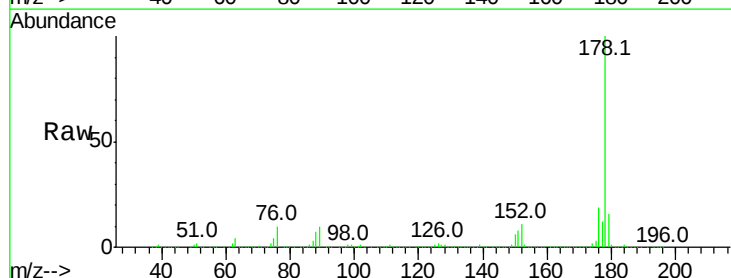


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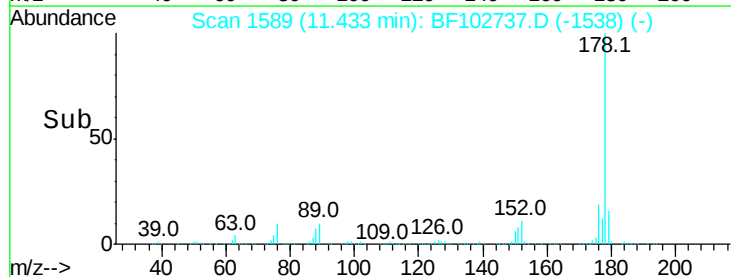
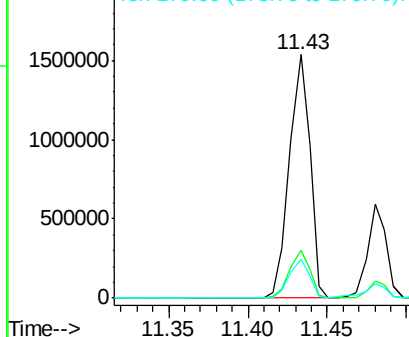


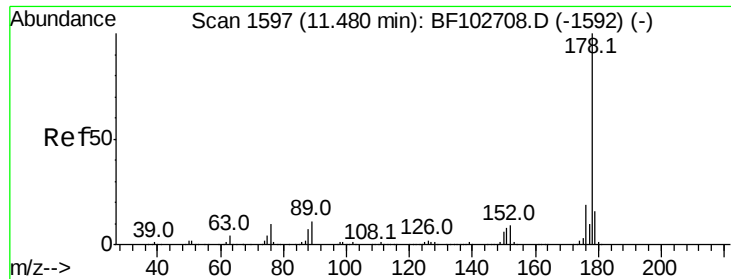
#70
Phenanthrene
Concen: 48.375 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Resp	Lower	Upper
178	100			
176	19.5	15.8	23.8	
179	15.8	13.0	19.6	



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





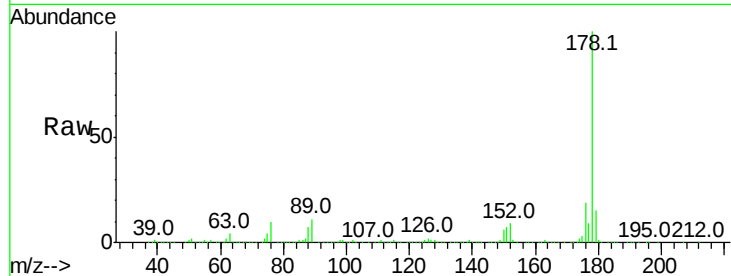
#71
 Anthracene
 Concen: 16.326 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: BF102737.D
 Acq: 5 Feb 2018 14:56

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-020218-B

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.1	12.6	19.0

Manual Integrations
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Sohil

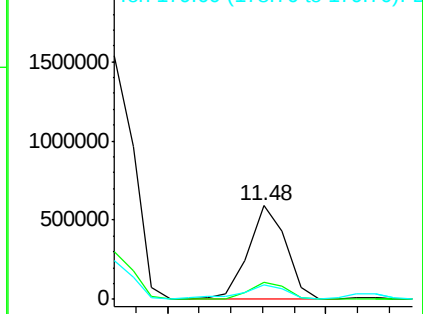


Abundance

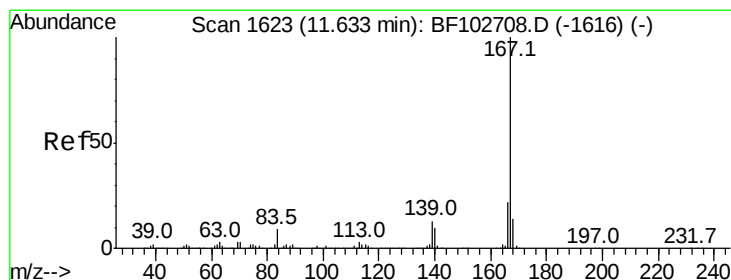
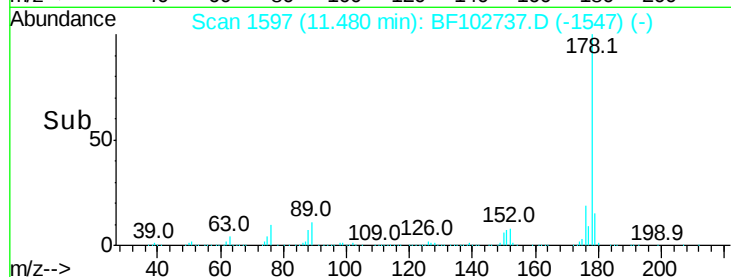
Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

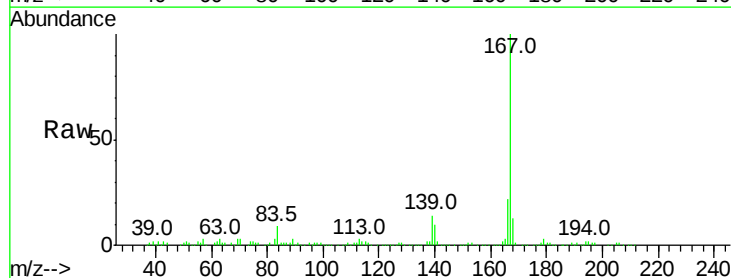


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#72
 Carbazole
 Concen: 4.812 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. -0.01 min
 Lab File: BF102737.D
 Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.6	26.4
139	14.0	10.9	16.3

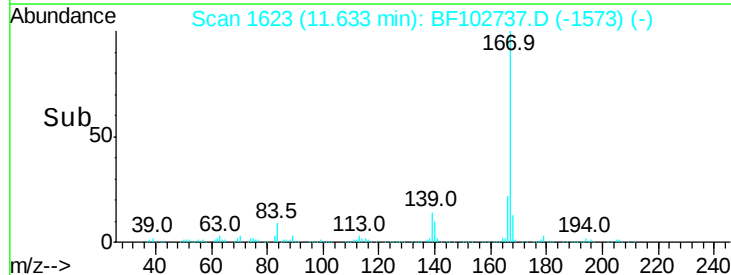
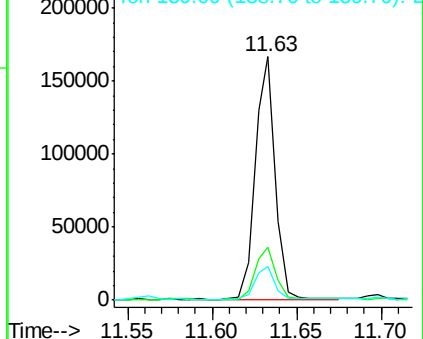


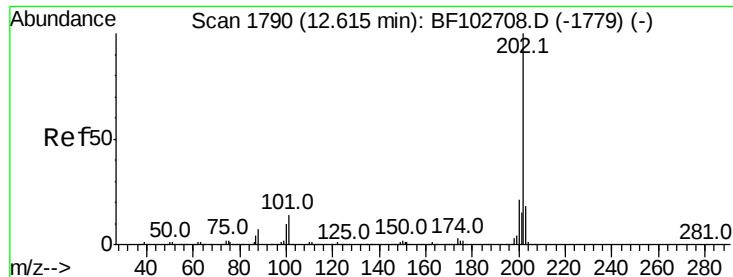
Abundance

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: 51.432 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Instrument :

BNA_F

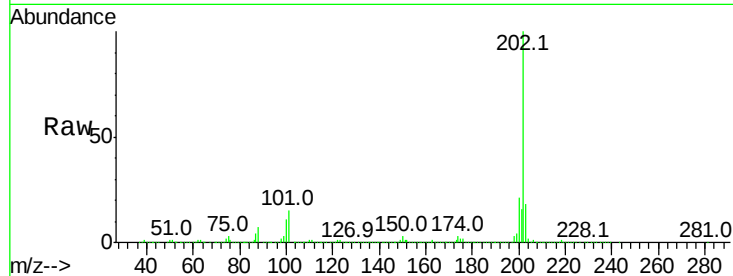
ClientSampleId :

OR-01-020218-B

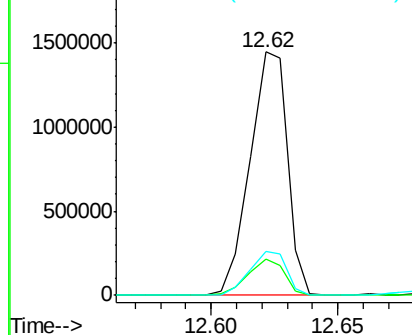
Tot Ion:	202	Resp:	1492372
Ion Ratio	Lower	Upper	
202	100		
101	14.9	0.0	34.1
203	18.2	0.0	38.1

Manual Integrations
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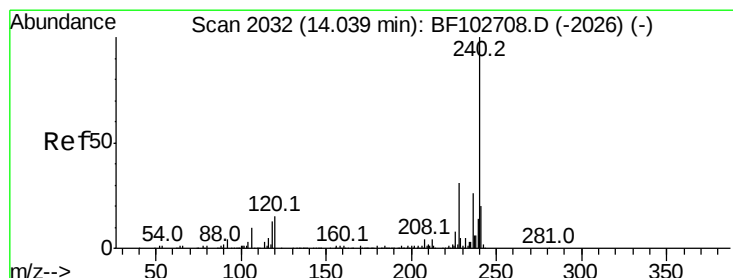
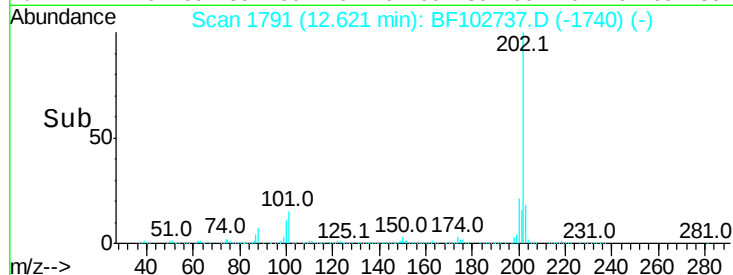
Sohil



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



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#75

Chrysene-d12

Concen: 20.000 ng

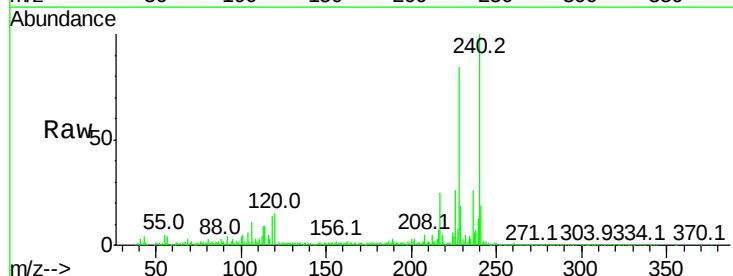
RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

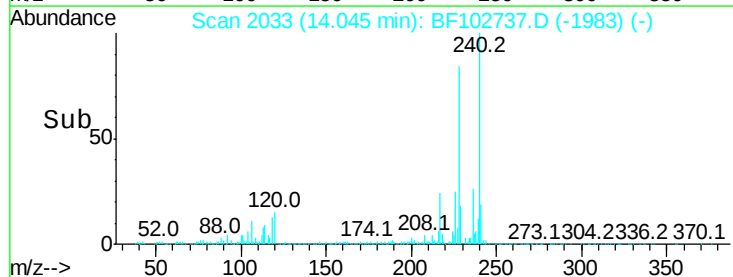
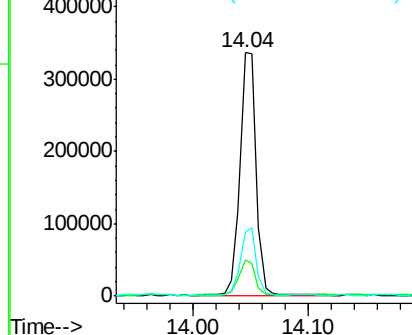
Lab File: BF102737.D

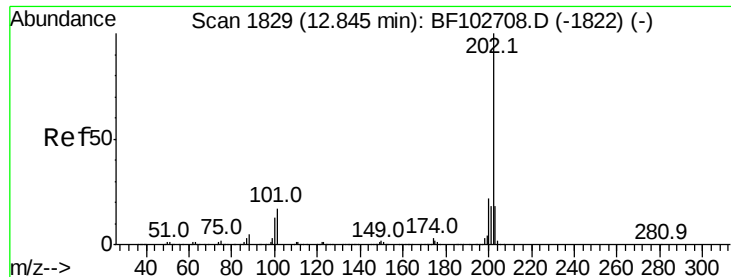
Acq: 5 Feb 2018 14:56

Tgt Ion:	240	Resp:	325793
Ion Ratio	Lower	Upper	
240	100		
120	15.0	9.5	14.3#
236	26.5	20.7	31.1



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

Pvrene

Concen: 50.375 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.00 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Instrument :

BNA_F

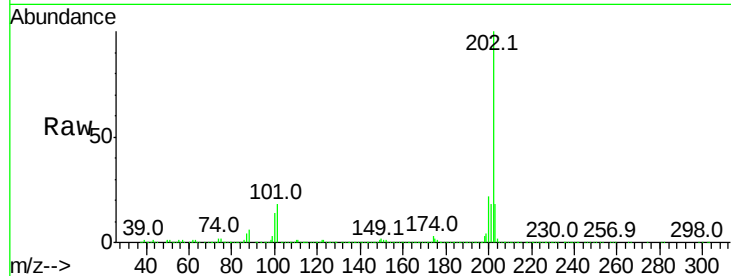
ClientSampleId :

OR-01-020218-B

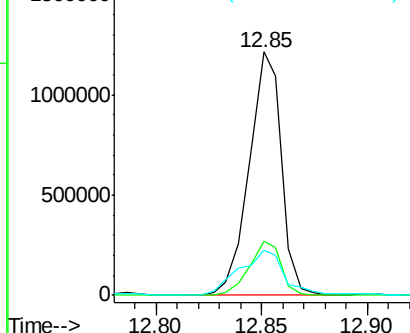
Tot Ion:	202	Resp:	1286943
Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.2
203	18.5	14.3	21.5

Manual Integrations
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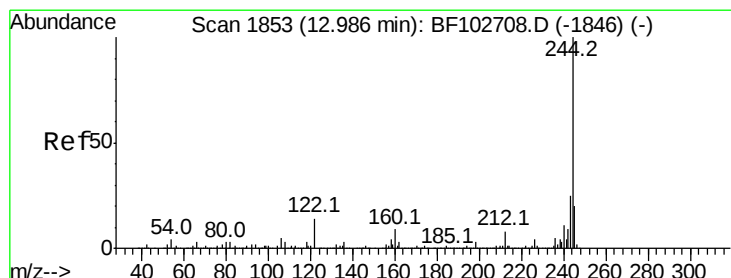
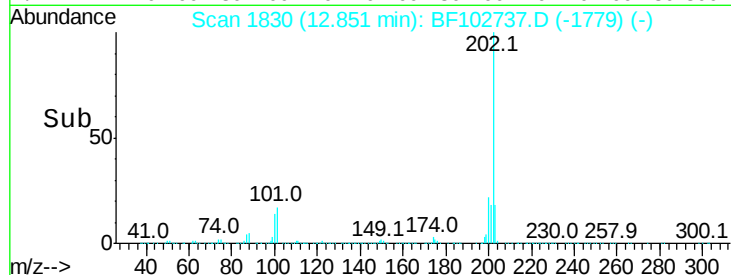
Sohil



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



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#78

Terphenyl-d14

Concen: 18.081 ng

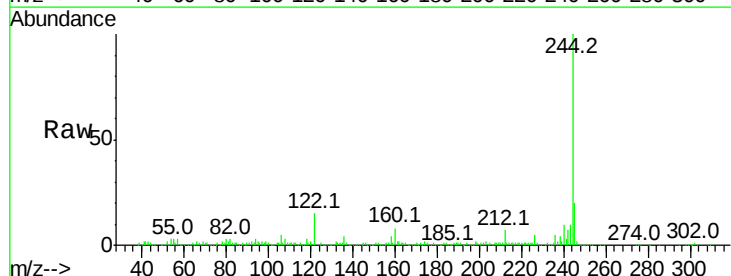
RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

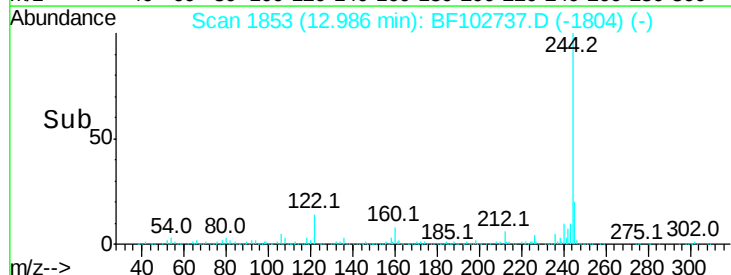
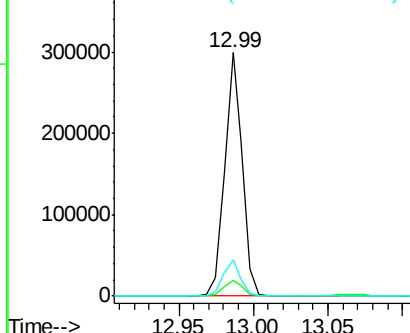
Lab File: BF102737.D

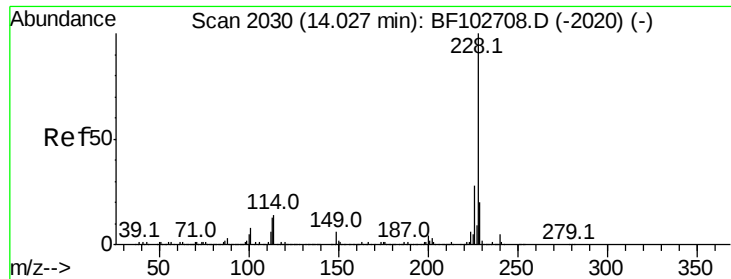
Acq: 5 Feb 2018 14:56

Tgt Ion:	244	Resp:	248779
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	14.6	11.0	16.4



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





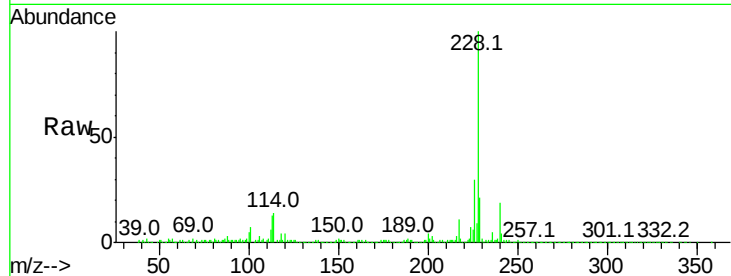
#80
Benzo(a)anthracene
Concen: 31.277 ng
RT: 14.04 min Scan# 2032
Delta R.T. -0.00 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
BNA_F
ClientSampleId :
OR-01-020218-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.6	33.8
229	21.1	15.8	23.6

Manual Integrations
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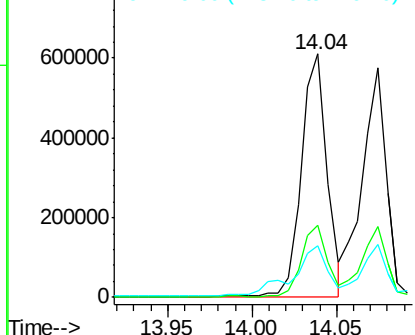


Abundance

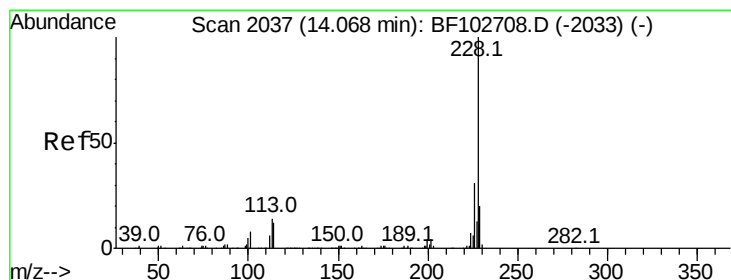
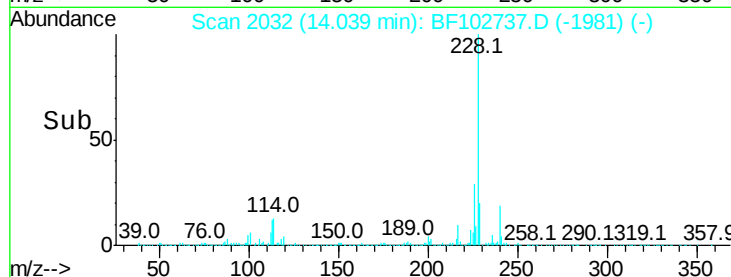
Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

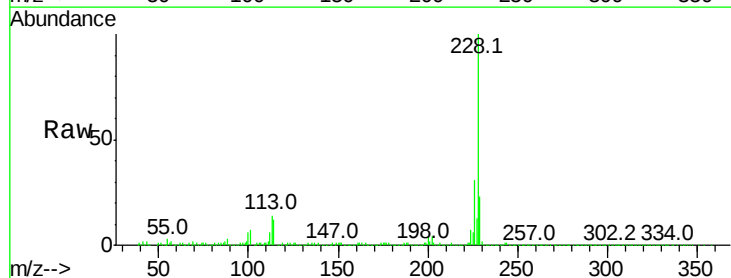


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#82
Chrysene
Concen: 27.627 ng
RT: 14.07 min Scan# 2038
Delta R.T. -0.01 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	22.8	16.2	24.4

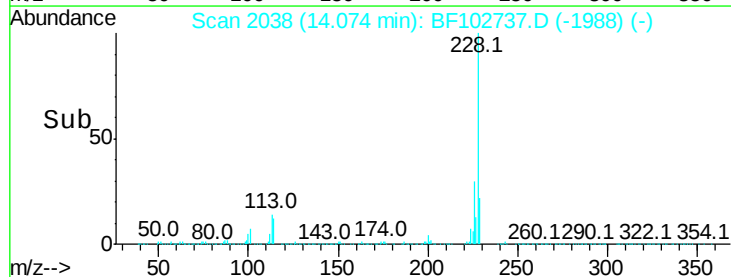
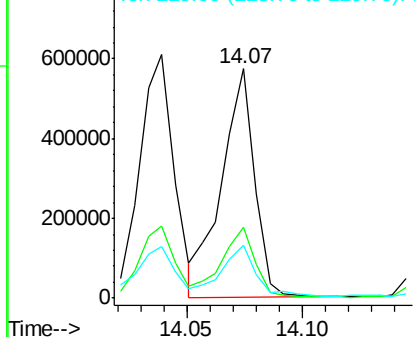


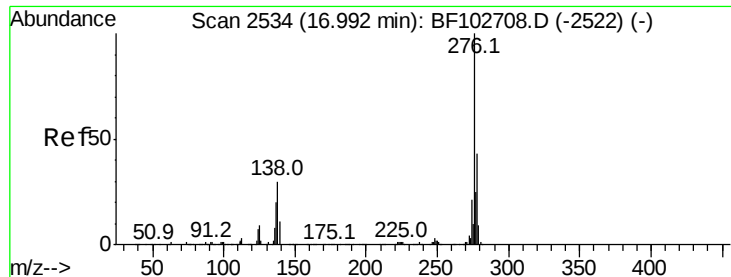
Abundance

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





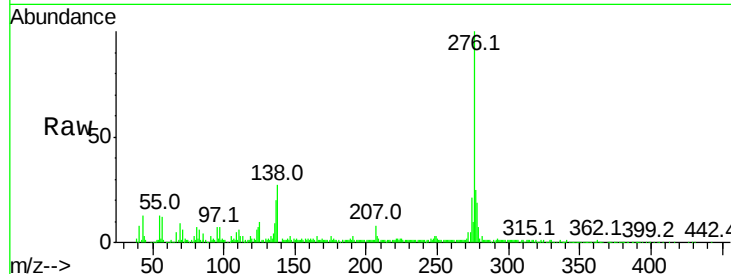
#85
Indeno(1,2,3-cd)pyrene
Concen: 13.874 ng
RT: 17.02 min Scan# 2538
Delta R.T. -0.00 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Instrument :
BNA_F
ClientSampleId :
OR-01-020218-B

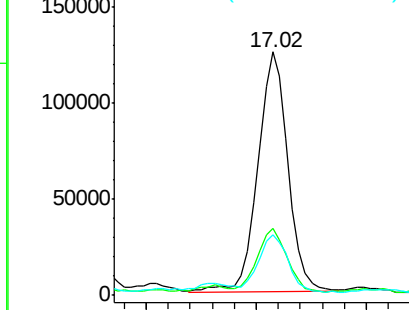
Tot Ion	Ratio	Lower	Upper
276	100		
138	26.4	25.0	37.6
277	23.7	20.1	30.1

Manual Integrations
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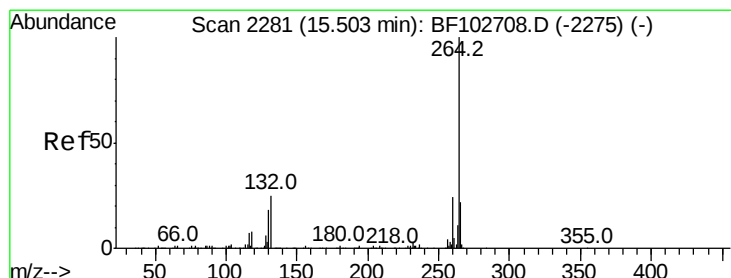
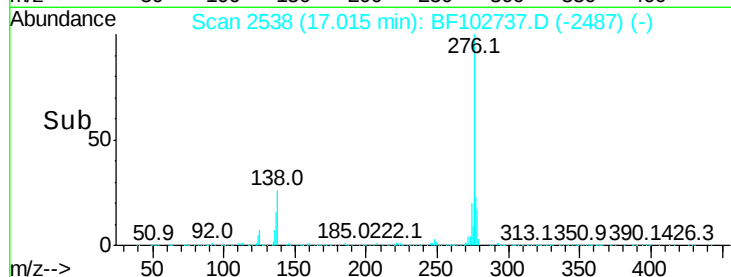
Sohil



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

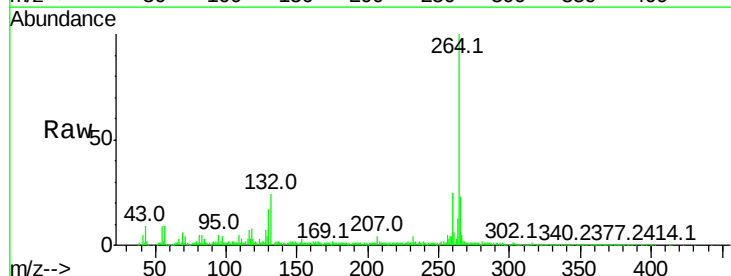


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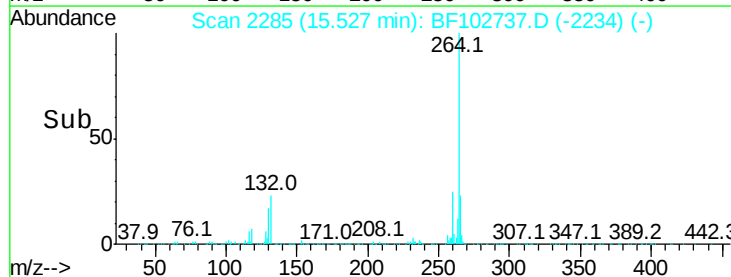
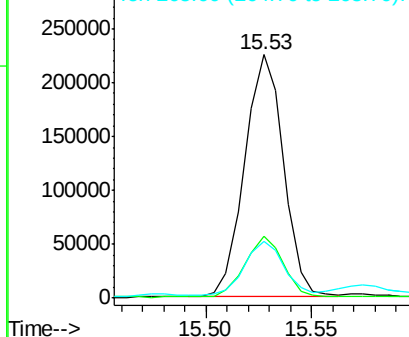


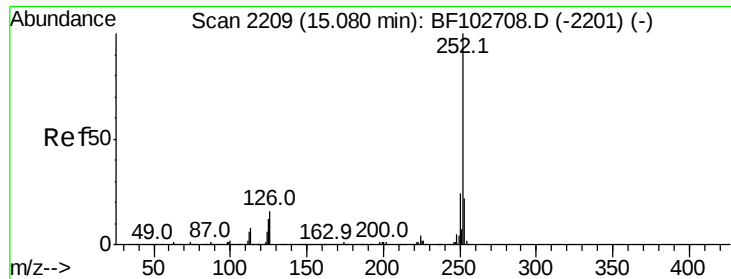
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. -0.00 min
Lab File: BF102737.D
Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.2	28.8
265	23.5	17.5	26.3



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: 33.468 ng m

RT: 15.09 min Scan# 2211

Delta R.T. -0.00 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Instrument :

BNA_F

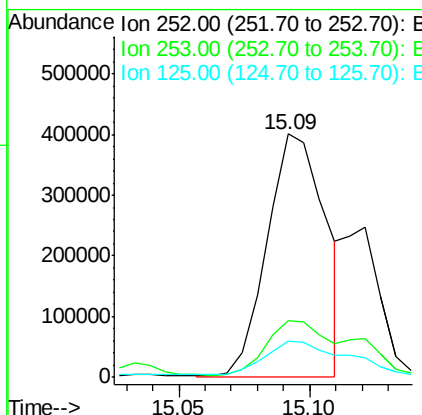
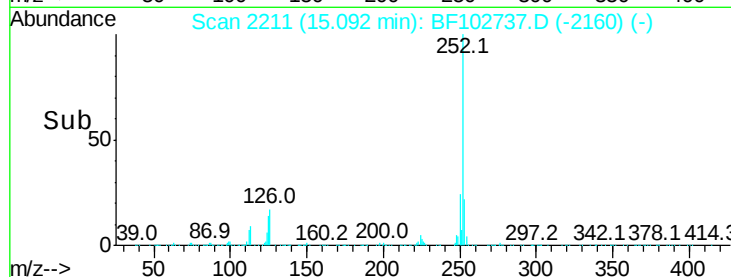
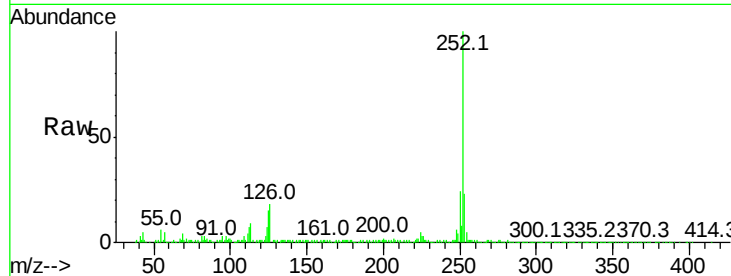
ClientSampleId :

OR-01-020218-B

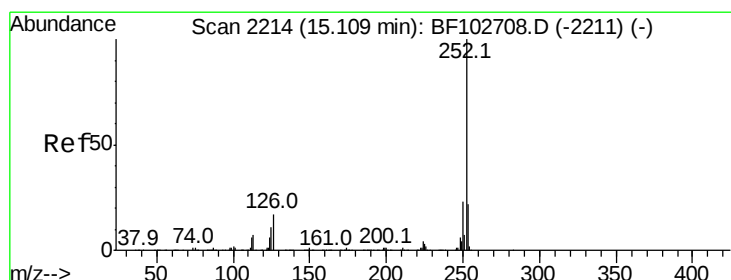
Tot Ion:	252	Resp:	625384
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.0	25.6
125	14.7	9.0	13.6

Manual Integrations
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Sohil



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#88

Benzo(k)fluoranthene

Concen: 13.323 ng m

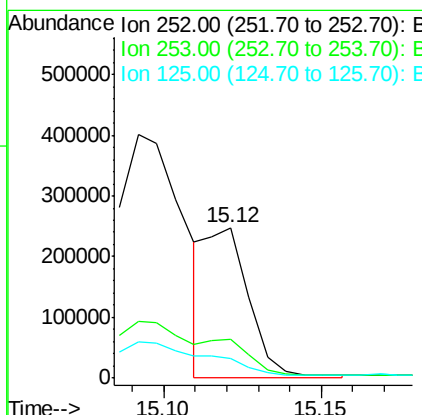
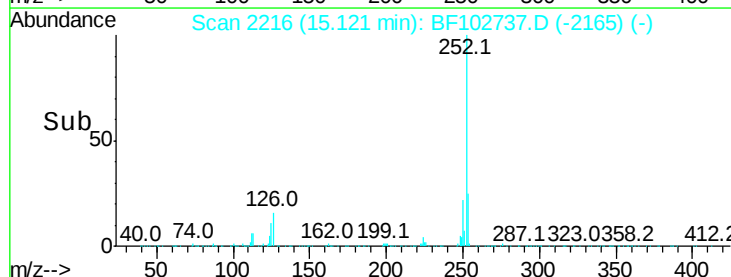
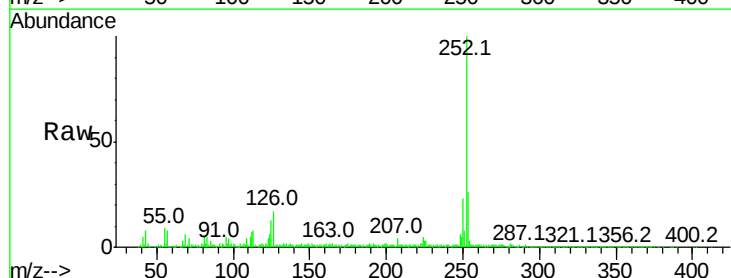
RT: 15.12 min Scan# 2216

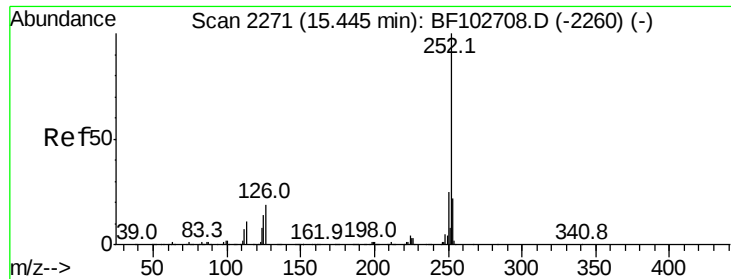
Delta R.T. -0.00 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Tgt Ion:	252	Resp:	237873
Ion Ratio	Lower	Upper	
252	100		
253	26.1	17.9	26.9
125	13.4	10.2	15.2





#89

Benzo(a)pyrene

Concen: 26.606 ng

RT: 15.46 min Scan# 2274

Delta R.T. -0.00 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Instrument :

BNA_F

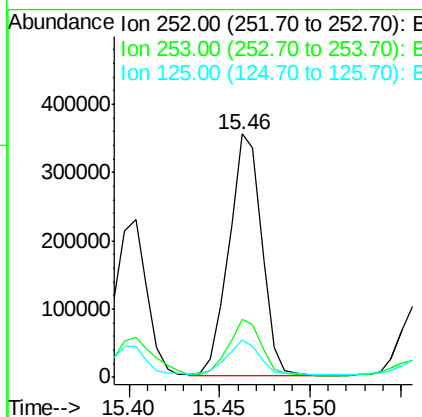
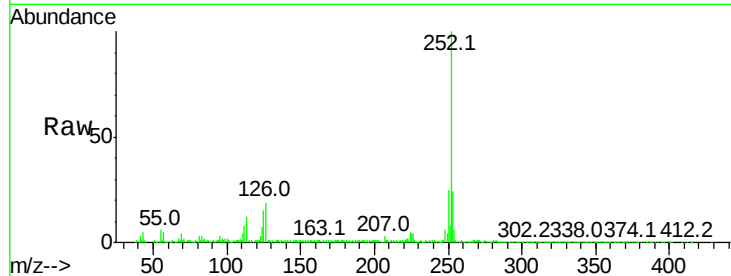
ClientSampleId :

OR-01-020218-B

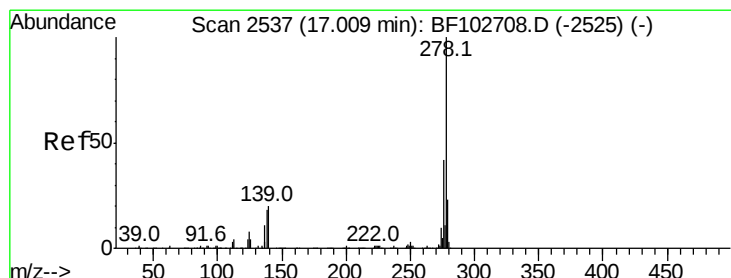
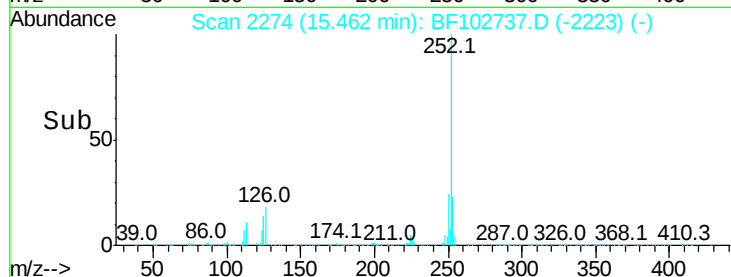
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	15.5	9.8	14.6#

Manual Integrations
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#90

Dibenzo(a,h)anthracene

Concen: 4.359 ng

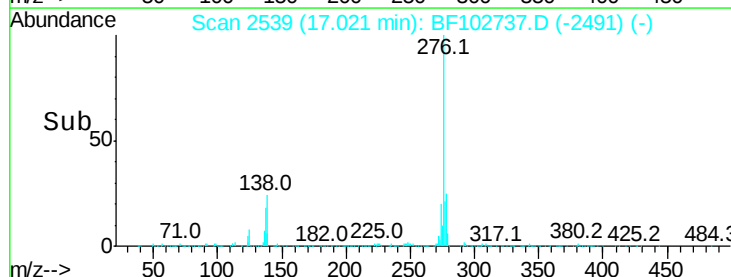
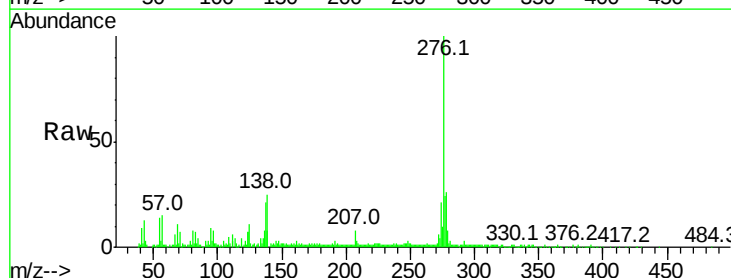
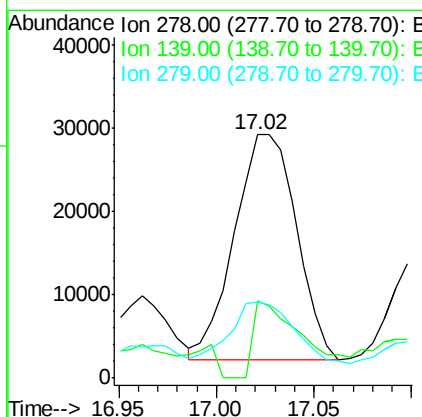
RT: 17.02 min Scan# 2539

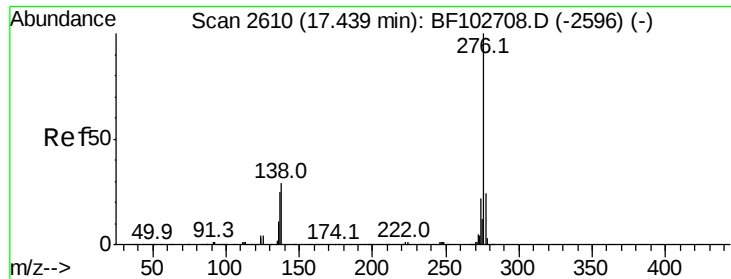
Delta R.T. -0.02 min

Lab File: BF102737.D

Acq: 5 Feb 2018 14:56

Tgt Ion	Ratio	Lower	Upper
278	100		
139	31.6	15.9	23.9#
279	31.4	19.0	28.4#





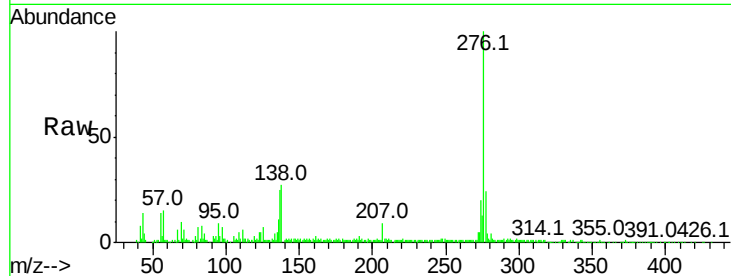
#91
 Benzo(a,h,i)perylene
 Concen: 15.907 ng
 RT: 17.47 min Scan# 2615
 Delta R.T. -0.01 min
 Lab File: BF102737.D
 Acq: 5 Feb 2018 14:56

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-020218-B

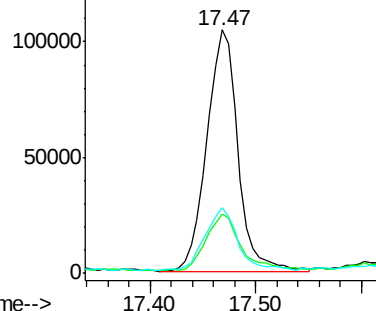
Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
277	24.2	17.9	26.9		
138	27.0	21.8	32.8		

Manual Integrations
 APPROVED

Sohil



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 277.00 (276.70 to 277.70): E
 Ion 138.00 (137.70 to 138.70): E



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