

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
 Data File : BF104742.D
 Acq On : 24 Apr 2018 7:50
 Operator : JU/SJ
 Sample : J2497-01
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5

Manual Integrations
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 4/24/2018 3:49:13 PM

Quant Time: Apr 24 10:17:11 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 23 15:38:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	105013	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	391262	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	170042	20.00	ng	0.00
63) Phenanthrene-d10	11.35	188	244966	20.00	ng	0.01
75) Chrysene-d12	14.02	240	100996	20.00	ng	0.04
86) Perylene-d12	15.50	264	110280	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	525310	76.49	ng	0.00
7) Phenol-d6	6.45	99	649701	76.99	ng	0.00
23) Nitrobenzene-d5	7.37	82	372245	62.12	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	126132	71.51	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	685938	63.73	ng	0.00
78) Terphenyl-d14	12.94	244	468615	105.78	ng	0.02
Target Compounds						Qvalue
27) 2,4-Dimethylphenol	7.77	122	63442	11.345	ng	# 92
31) Naphthalene	8.13	128	4668415	239.618	ng	98
37) 2-Methylnaphthalene	8.80	142	373010	29.598	ng	97
45) 1,1'-Biphenyl	9.27	154	341918	23.936	ng	99
48) Acenaphthylene	9.72	152	1178572	66.575	ng	99
49) Dimethylphthalate	9.56	163	66578	4.965	ng	# 98
51) Acenaphthene	9.89	154	451807	41.830	ng	97
54) Dibenzofuran	10.06	168	570948	37.931	ng	98
57) Fluorene	10.40	166	1124181	102.606	ng	99
70) Phenanthrene	11.39	178	3697431	271.033	ng	99
71) Anthracene	11.43	178	1518411	109.496	ng	99
72) Carbazole	11.59	167	613989	45.310	ng	99
74) Fluoranthene	12.60	202	3369255	236.385	ng	99
77) Pyrene	12.83	202	3281682	438.366	ng	98
80) Benzo(a)anthracene	14.02	228	1542013	255.571	ng	# 83
82) Chrysene	14.06	228	1318355	212.726	ng	# 93
85) Indeno(1,2,3-cd)pyrene	17.01	276	1028390	195.339	ng	# 90
87) Benzo(b)fluoranthene	15.09	252	1741079m	249.972	ng	
88) Benzo(k)fluoranthene	15.11	252	311205m	47.327	ng	
89) Benzo(a)pyrene	15.46	252	1185554	190.236	ng	95
90) Dibenzo(a,h)anthracene	17.00	278	255110m	49.842	ng	
91) Benzo(g,h,i)perylene	17.47	276	1127311	227.333	ng	95

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

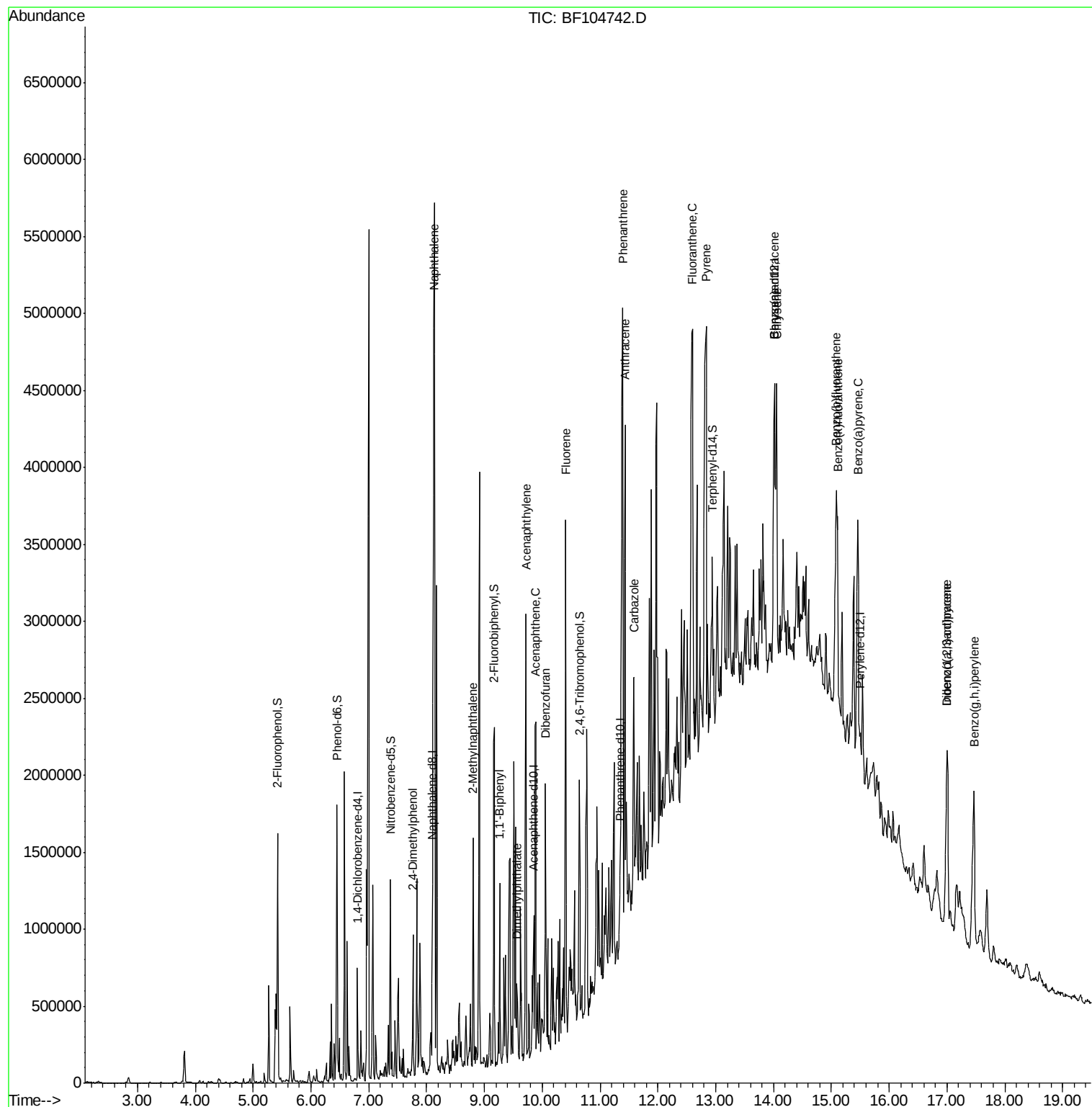
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042318\
Data File : BF104742.D
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#1

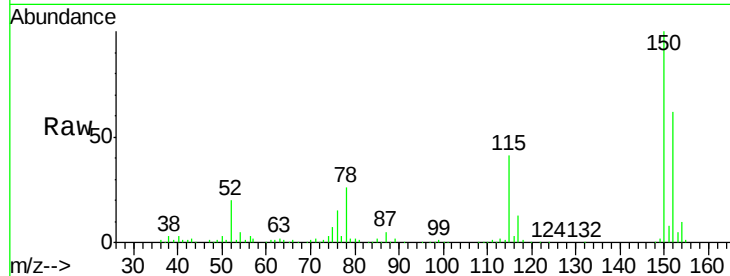
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.2	124.6	186.8
115	67.0	50.1	75.1

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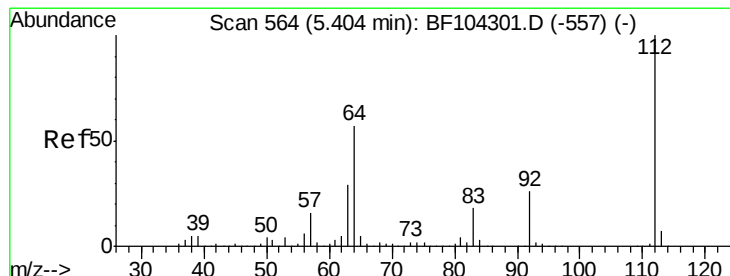
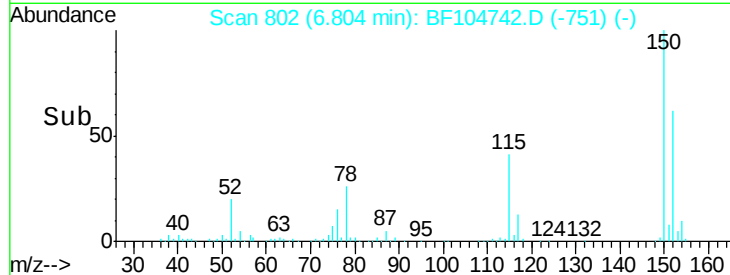
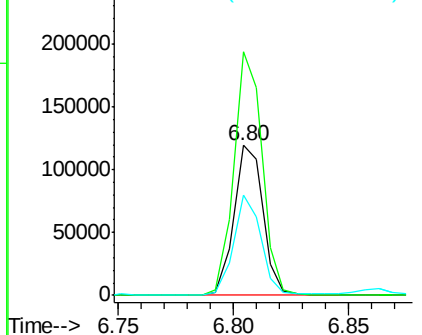


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

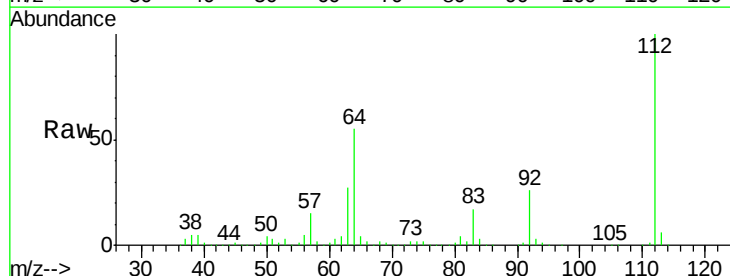
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 76.488 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	47.9	71.9
63	27.2	23.7	35.5

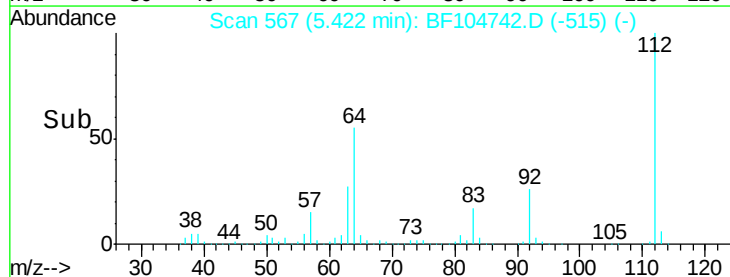
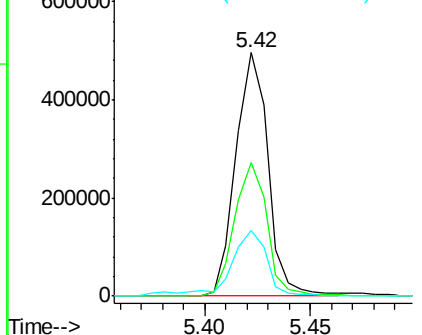


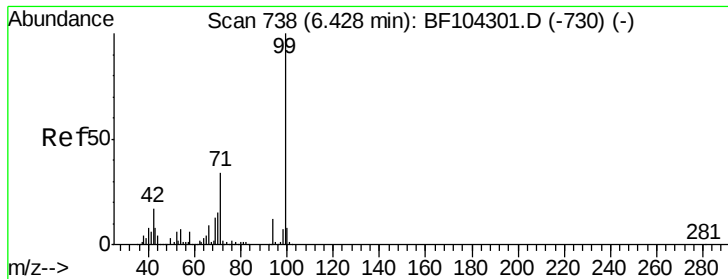
Abundance

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: 76.994 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.01 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Instrument :

BNA_F

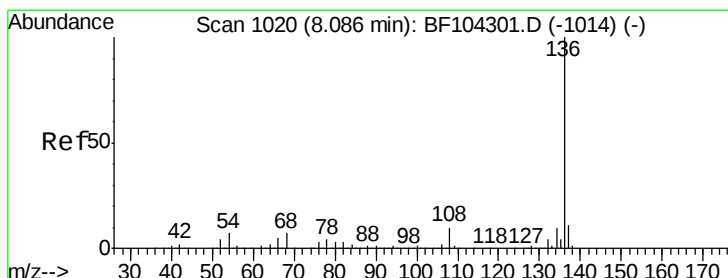
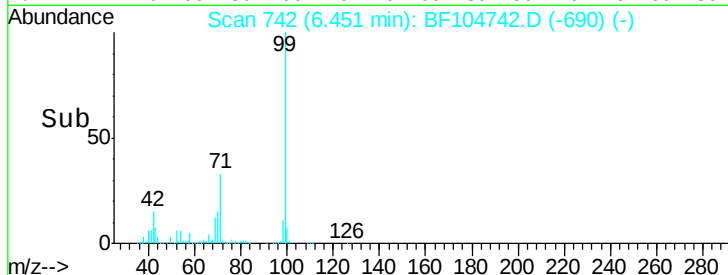
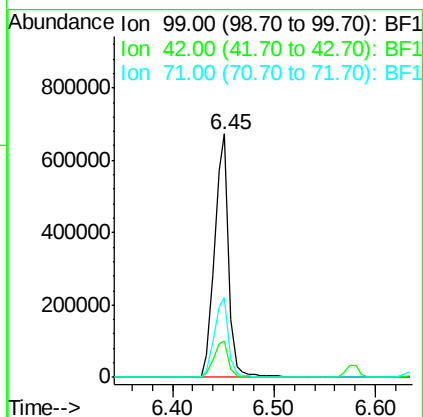
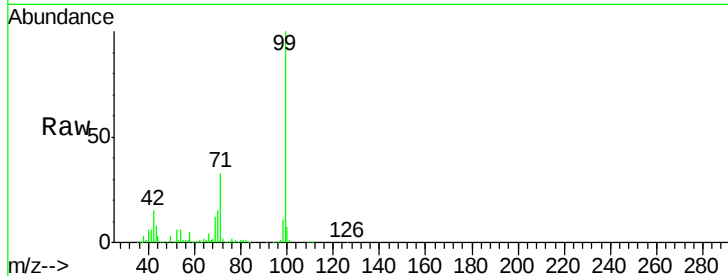
ClientSampleId :

A2-SB01-BOT-4.5

Tot Ion:	99	Resp:	649701
Ion Ratio	Lower	Upper	
99	100		
42	15.1	14.5	21.7
71	32.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

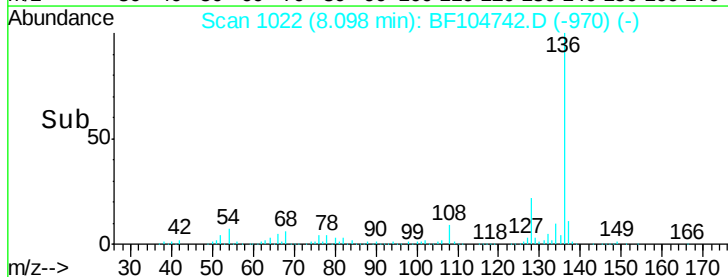
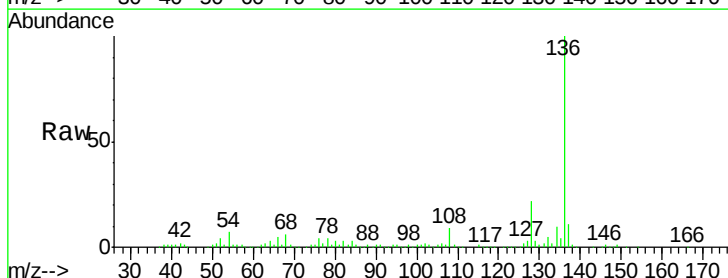
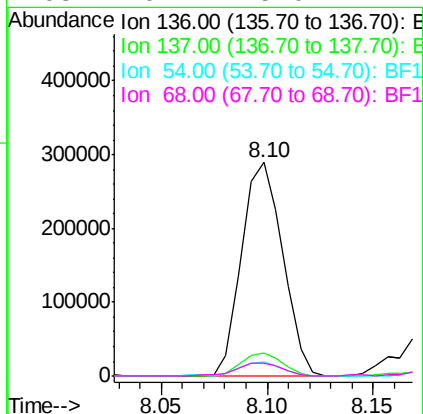
RT: 8.10 min Scan# 1022

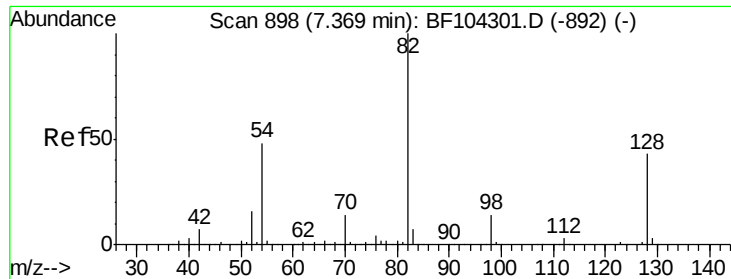
Delta R.T. 0.01 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Tgt Ion:	136	Resp:	391262
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	6.8	6.6	9.8
68	6.2	5.0	7.4





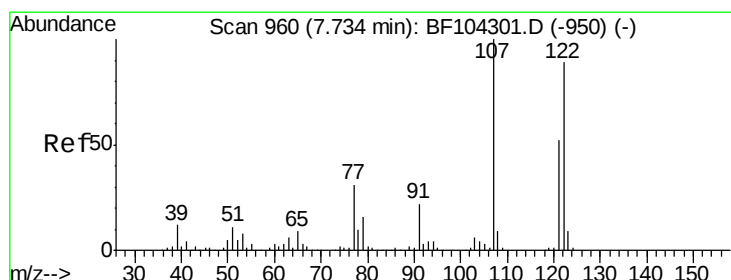
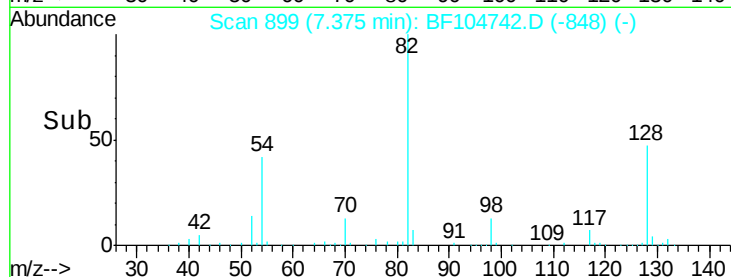
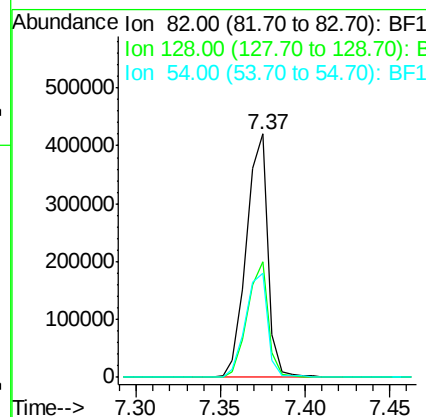
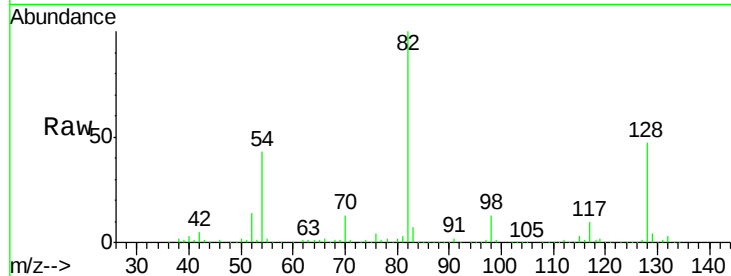
#23
 Nitrobenzene-d5
 Concen: 62.124 ng
 RT: 7.37 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: BF104742.D
 Acq: 24 Apr 2018 7:50

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	47.4	36.1	54.1	
54	42.5	41.4	62.2	

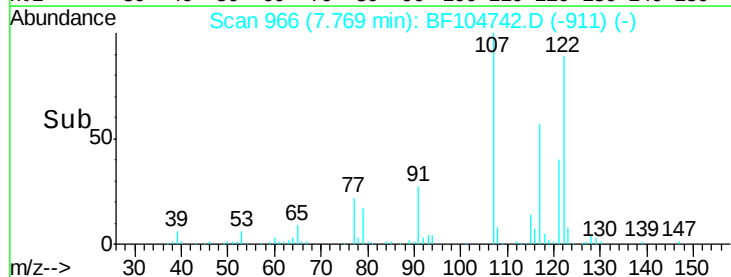
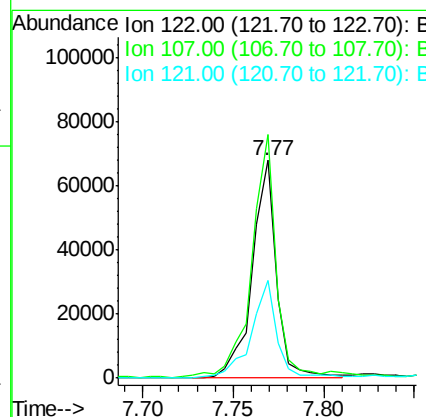
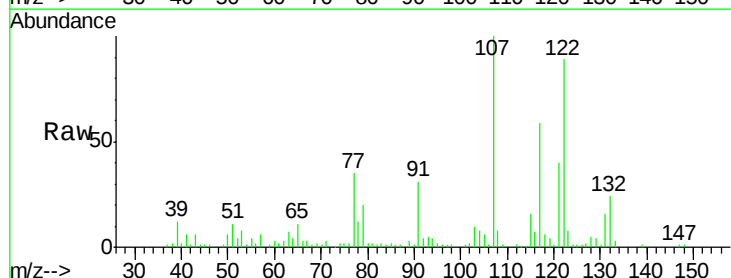
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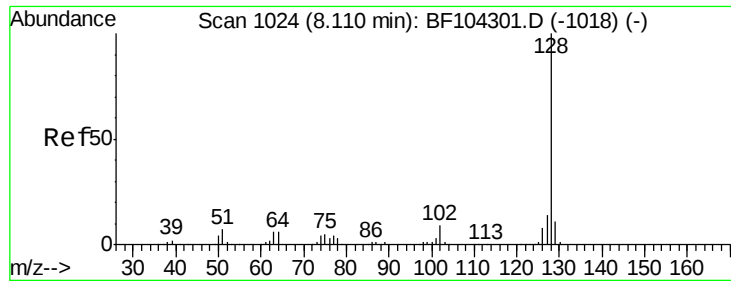
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#27
 2,4-Dimethylphenol
 Concen: 11.345 ng
 RT: 7.77 min Scan# 966
 Delta R.T. 0.02 min
 Lab File: BF104742.D
 Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Resp	Lower	Upper
122	100			
107	111.9	91.2	136.8	
121	45.1	47.2	70.8#	





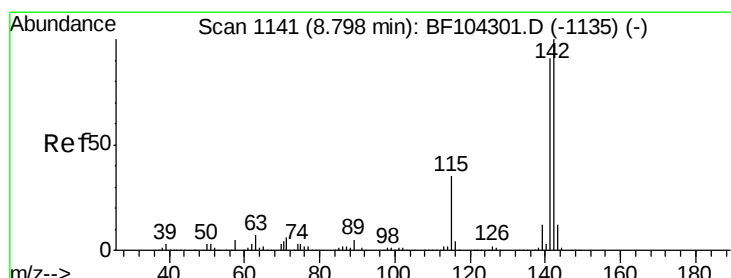
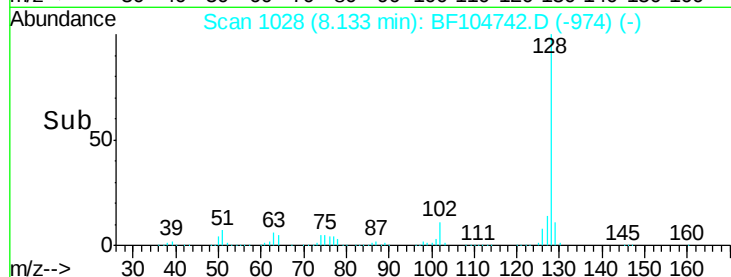
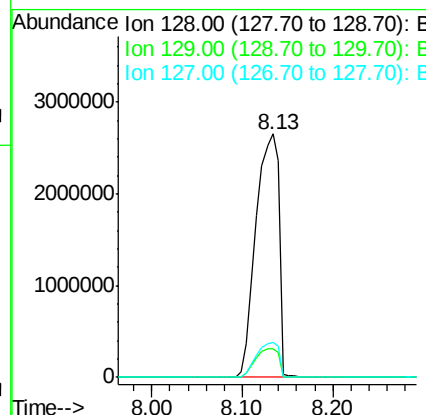
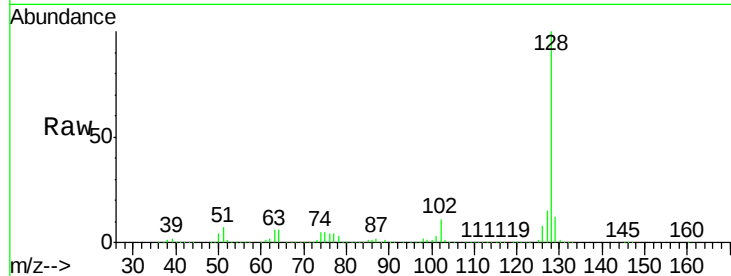
#31
Naphthalene
Concen: 239.618 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.02 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion:128 Resp: 4668415
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 14.5 10.9 16.3

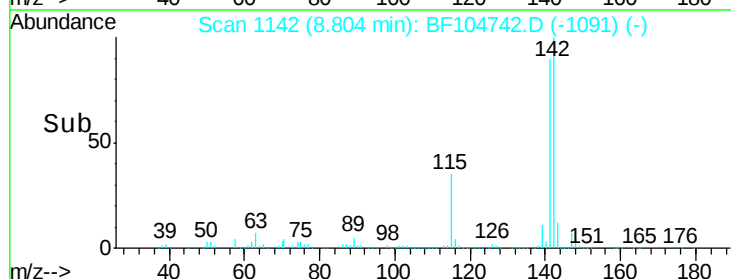
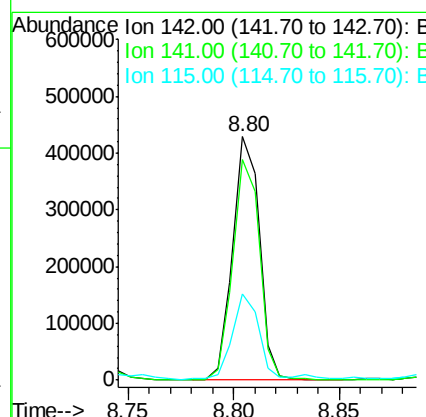
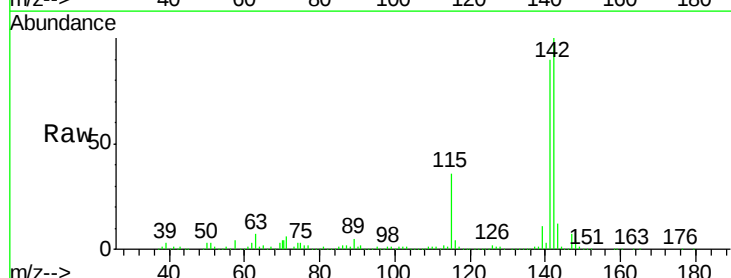
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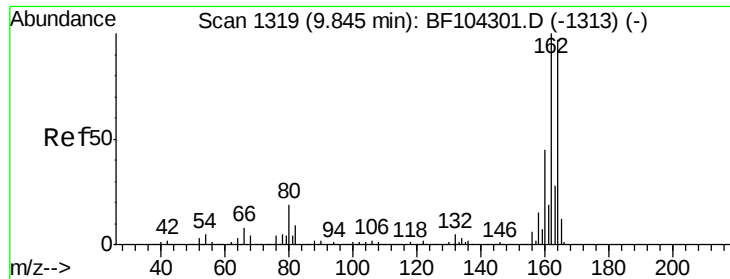
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#37
2-Methylnaphthalene
Concen: 29.598 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion:142 Resp: 373010
Ion Ratio Lower Upper
142 100
141 90.4 70.8 106.2
115 35.6 26.1 39.1





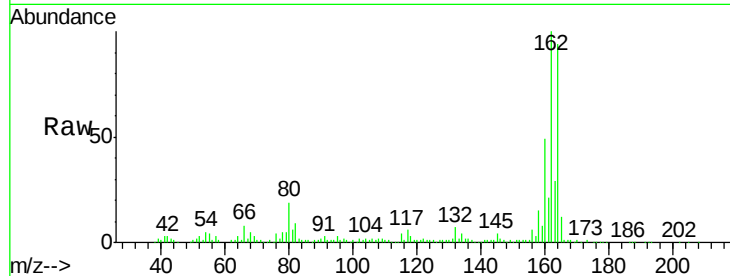
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. 0.01 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

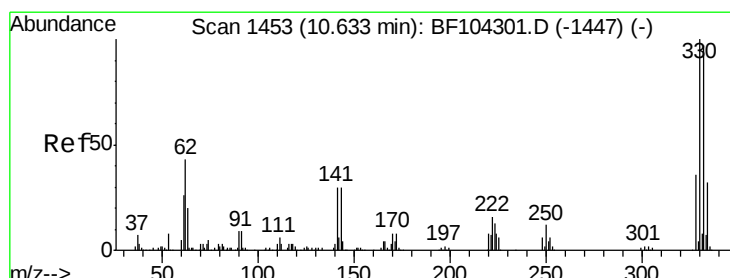
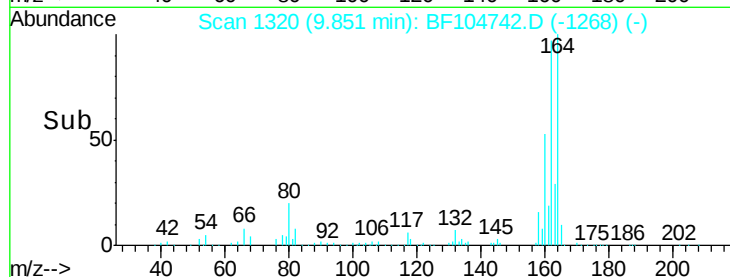
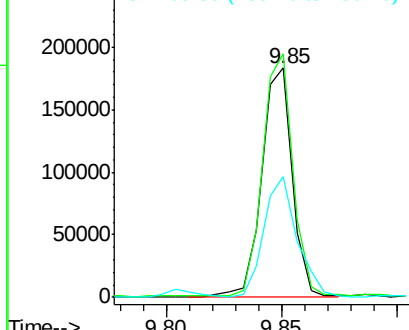
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	106.3	86.1	129.1	
160	52.6	38.3	57.5	

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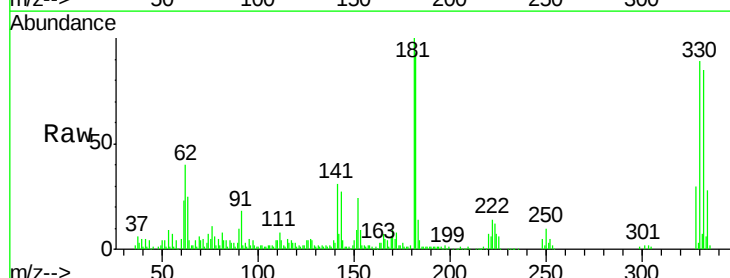


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

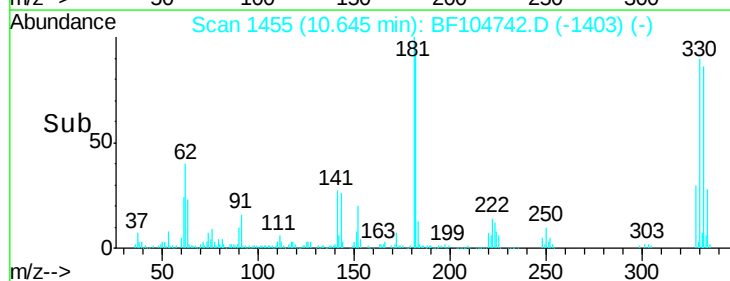
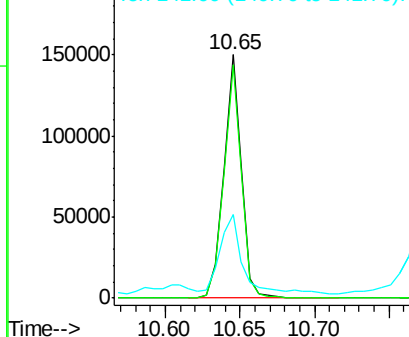


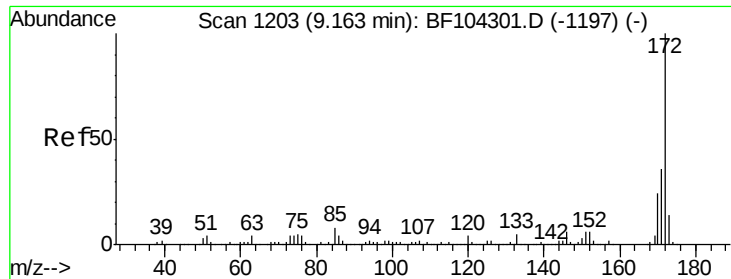
#41
2,4,6-Tribromophenol
Concen: 71.508 ng
RT: 10.65 min Scan# 1455
Delta R.T. 0.01 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.7	77.0	115.6	
141	41.2	29.9	44.9	



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





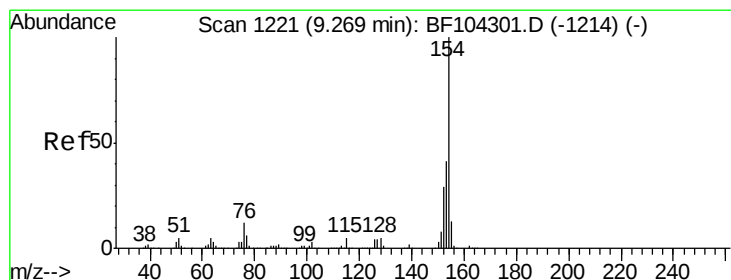
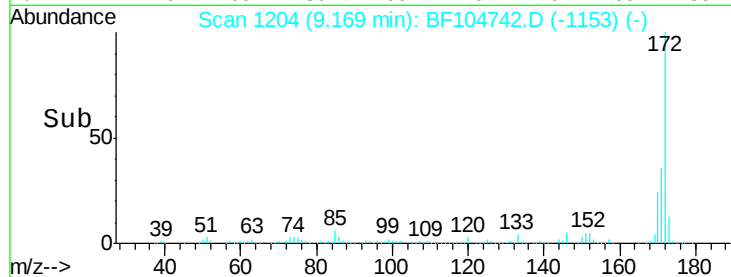
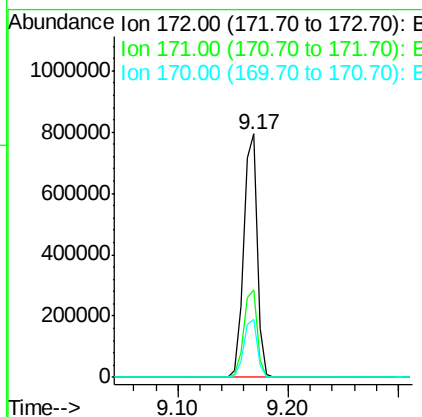
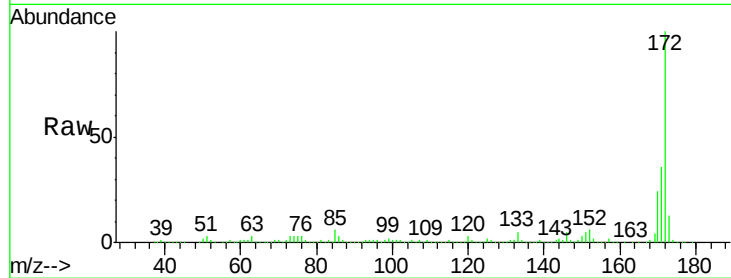
#44
2-Fluorobiphenyl
Concen: 63.726 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.00 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.7	44.5
170	23.7	19.6	29.4

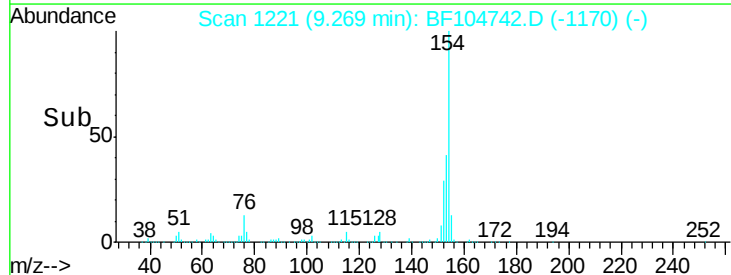
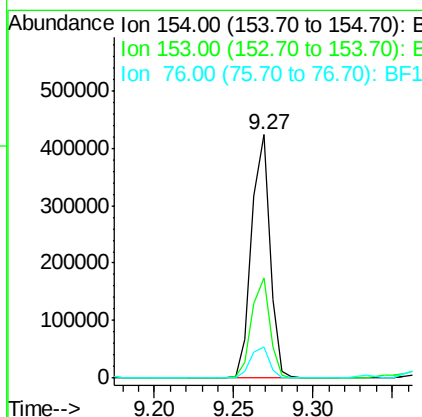
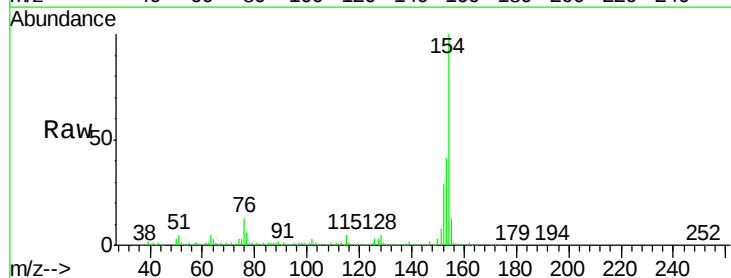
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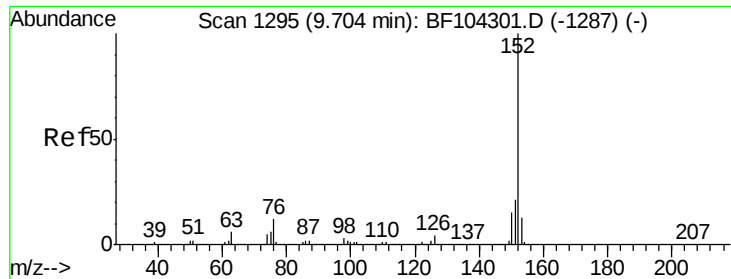
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#45
1,1'-Biphenyl
Concen: 23.936 ng
RT: 9.27 min Scan# 1221
Delta R.T. -0.00 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.9	21.3	61.3
76	12.7	0.0	34.0





#48

Acenaphthylene

Concen: 66.575 ng

RT: 9.72 min Scan# 1297

Delta R.T. 0.01 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Instrument :

BNA_F

ClientSampleId :

A2-SB01-BOT-4.5

Tot Ion:152 Resp: 1178572

Ion Ratio Lower Upper

152 100

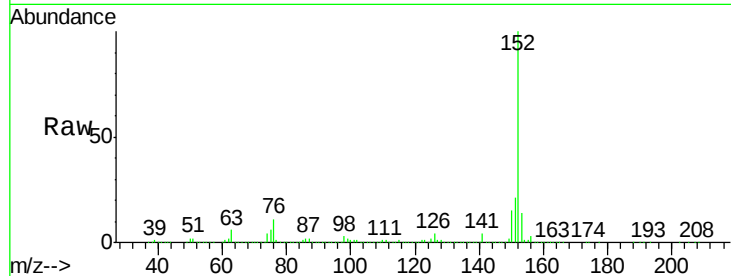
151 21.0 16.3 24.5

153 13.7 10.7 16.1

Manual Integrations
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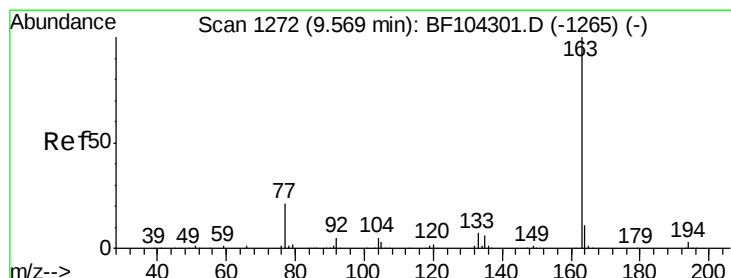
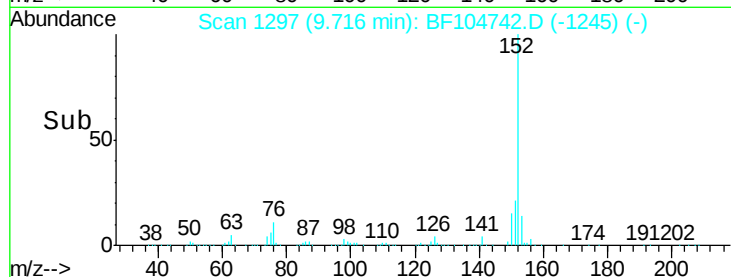
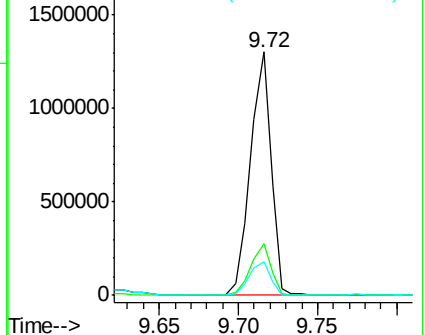
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.965 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

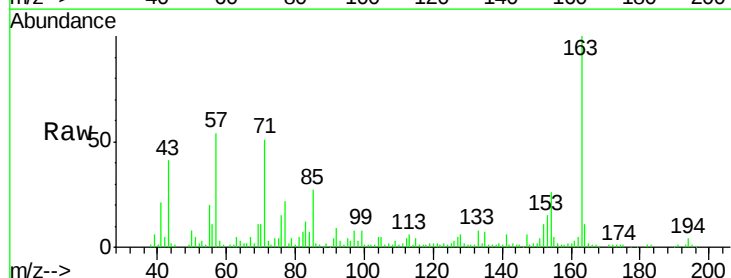
Tgt Ion:163 Resp: 66578

Ion Ratio Lower Upper

163 100

194 4.4 2.7 4.1#

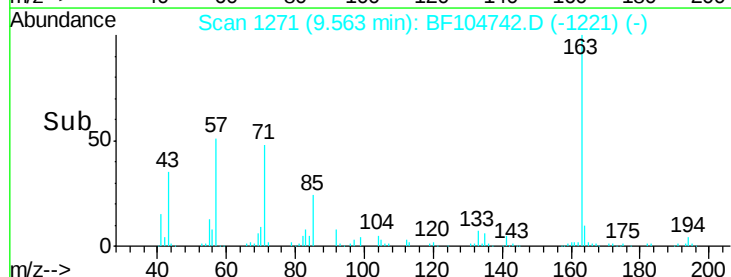
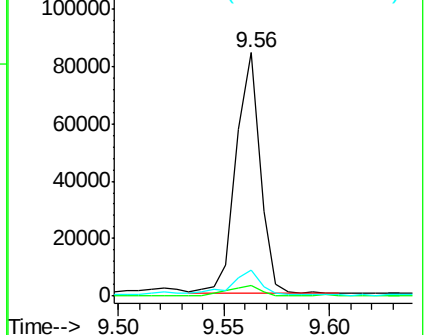
164 10.9 8.2 12.2

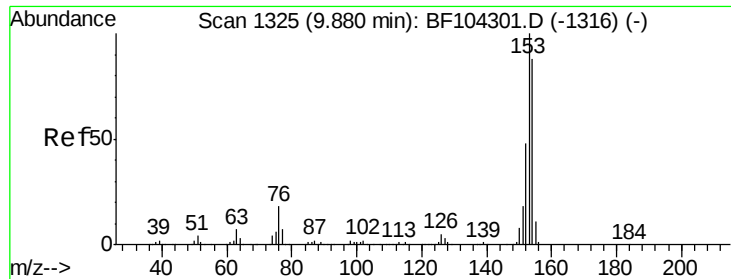


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 41.830 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.01 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Instrument :

BNA_F

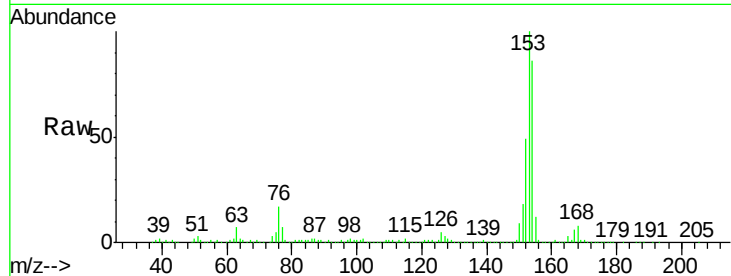
ClientSampleId :

A2-SB01-BOT-4.5

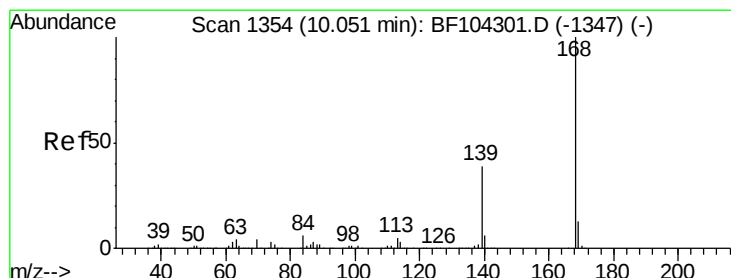
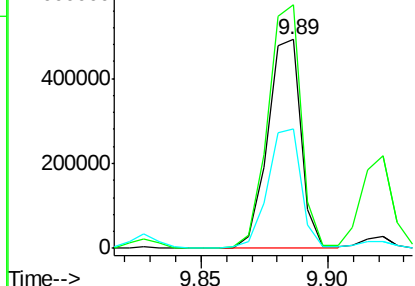
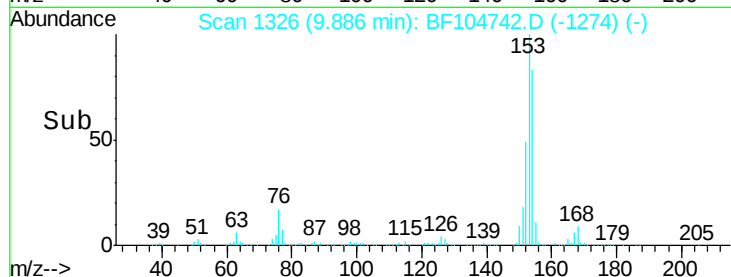
Tot Ion:	154	Resp:	451807
Ion Ratio	Lower	Upper	
154	100		
153	116.5	91.2	136.8
152	57.3	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 37.931 ng

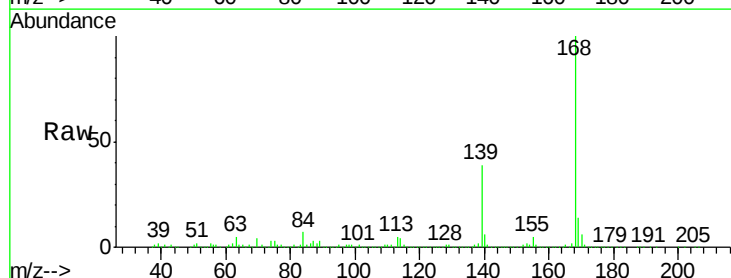
RT: 10.06 min Scan# 1355

Delta R.T. 0.01 min

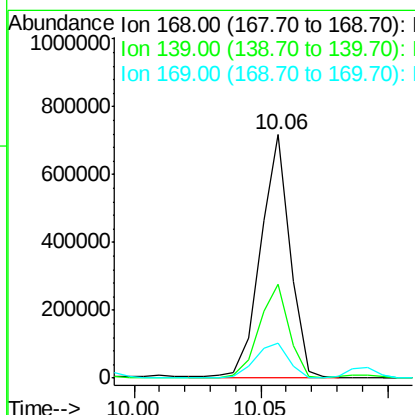
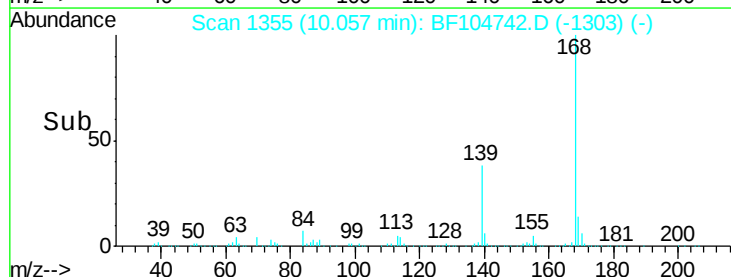
Lab File: BF104742.D

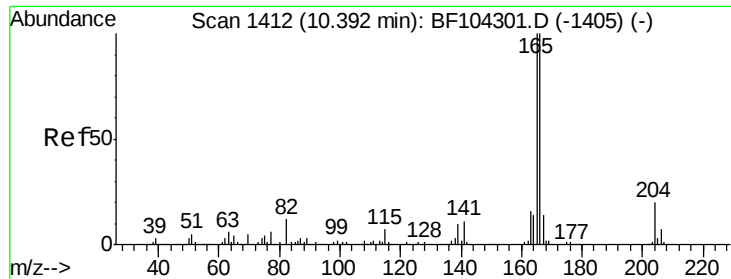
Acq: 24 Apr 2018 7:50

Tgt Ion:	168	Resp:	570948
Ion Ratio	Lower	Upper	
168	100		
139	38.5	30.1	45.1
169	14.4	10.9	16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





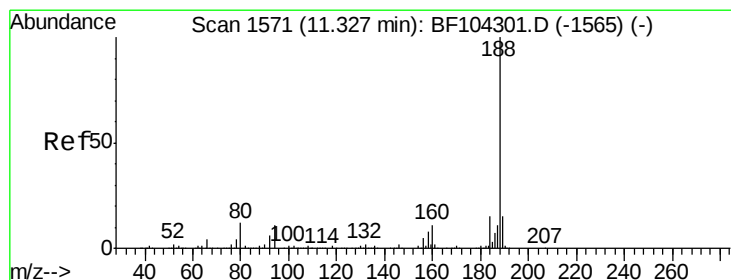
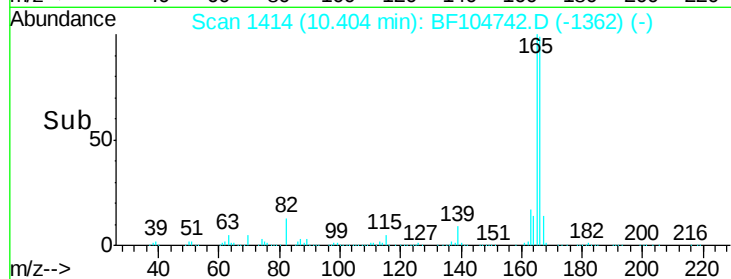
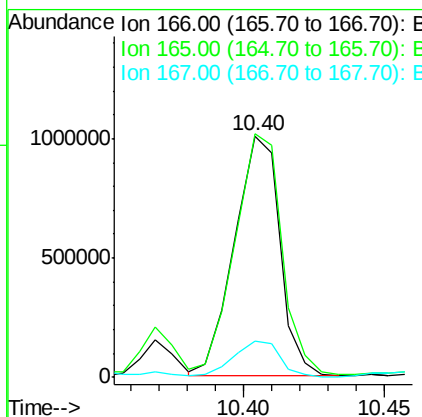
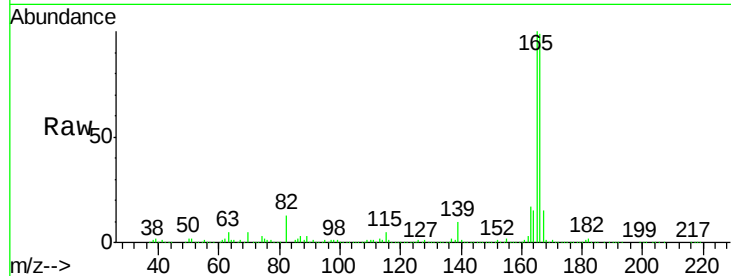
#57
Fluorene
 Concen: 102.606 ng
 RT: 10.40 min Scan# 1414
 Delta R.T. 0.01 min
 Lab File: BF104742.D
 Acq: 24 Apr 2018 7:50

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB01-BOT-4.5

Tot Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.8	119.8
167	15.1	10.6	16.0

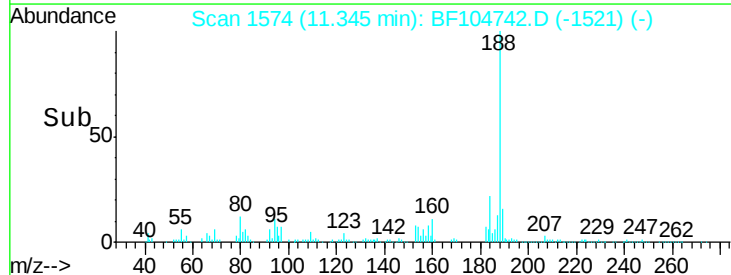
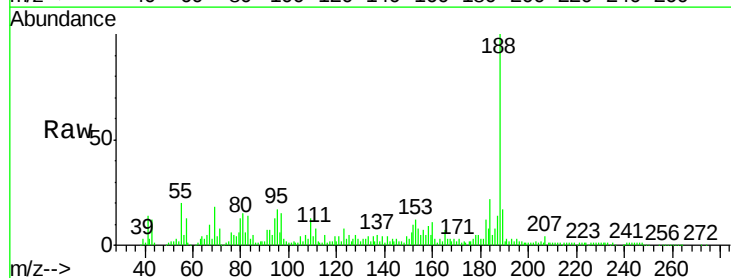
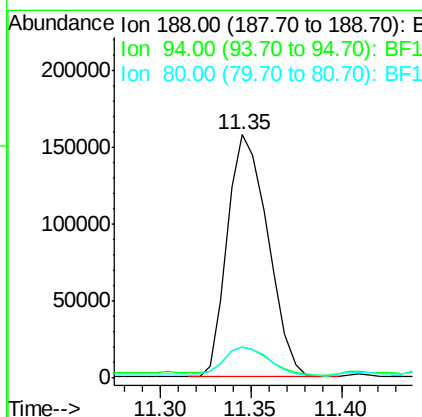
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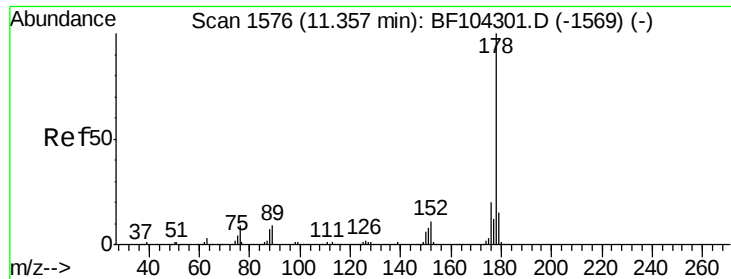
Sohil
 4/24/2018 3:49:13 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF104742.D
 Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.6	8.5	12.7
80	13.0	9.2	13.8





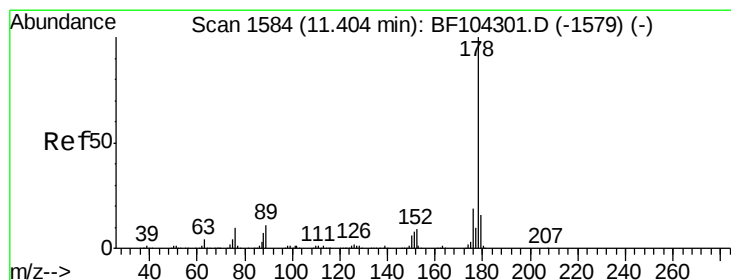
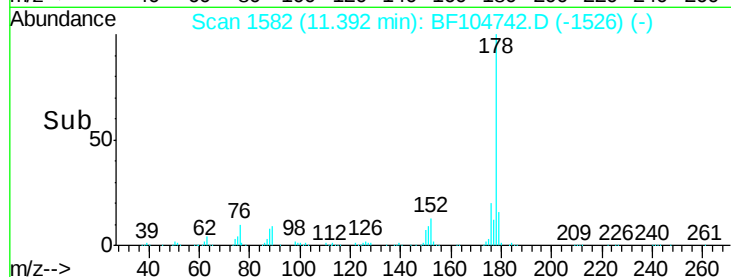
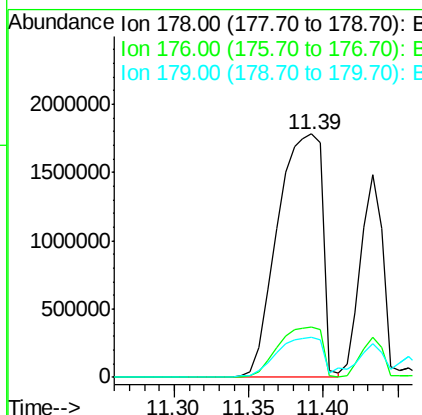
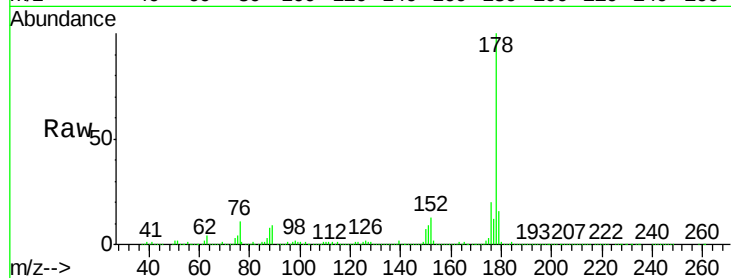
#70
Phenanthrene
Concen: 271.033 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.03 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion:178 Resp: 3697431
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 16.3 13.0 19.6

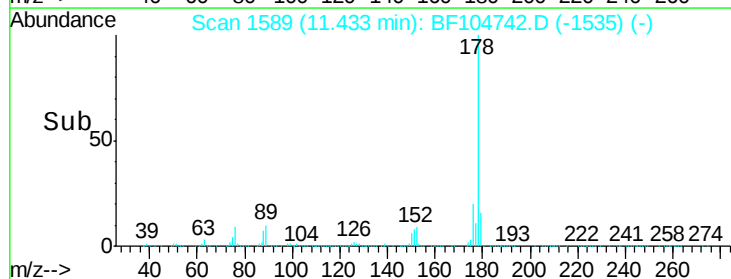
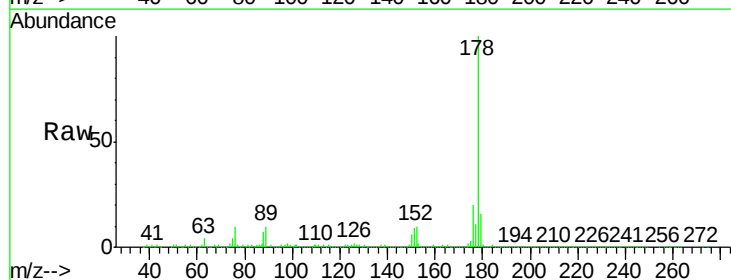
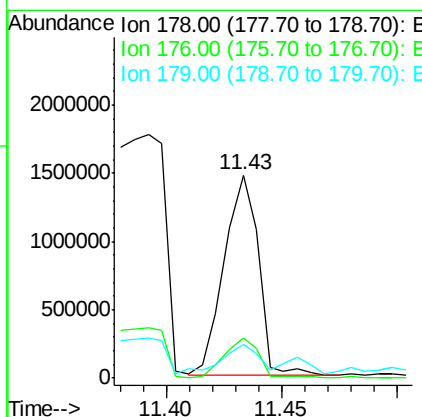
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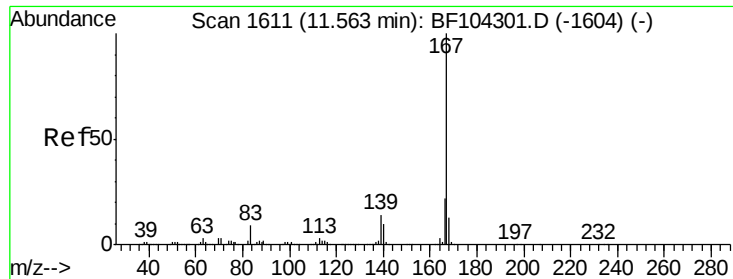
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#71
Anthracene
Concen: 109.496 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.02 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion:178 Resp: 1518411
Ion Ratio Lower Upper
178 100
176 19.7 15.4 23.2
179 16.5 12.6 19.0





#72

Carbazole

Concen: 45.310 ng

RT: 11.59 min Scan# 1615

Delta R.T. 0.02 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Instrument :

BNA_F

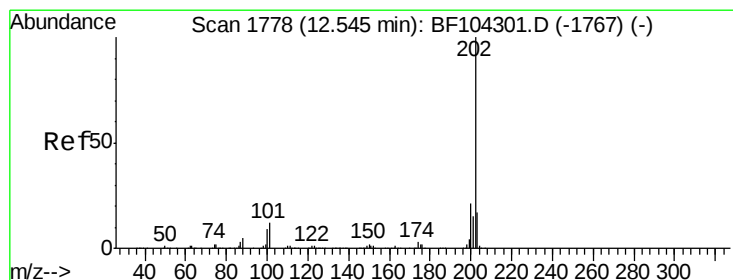
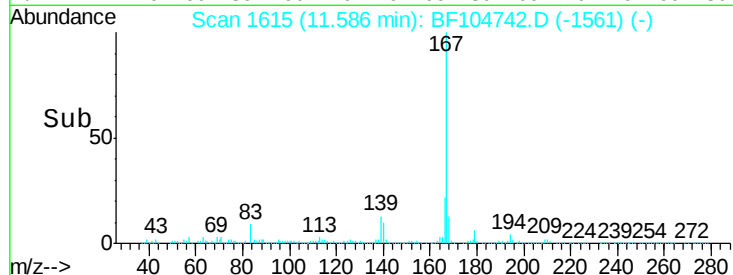
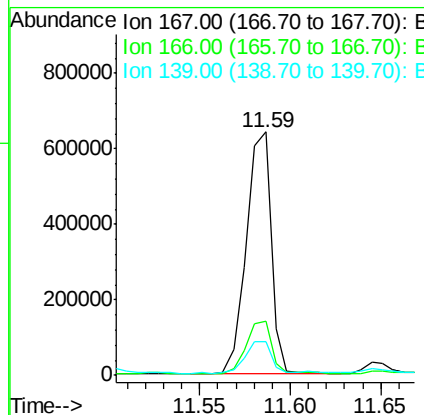
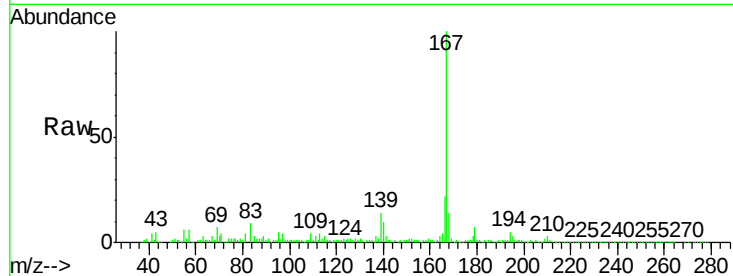
ClientSampleId :

A2-SB01-BOT-4.5

Tot Ion:	167	Resp:	613989
Ion Ratio		Lower	Upper
167	100		
166	22.3	17.6	26.4
139	13.9	10.9	16.3

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#74

Fluoranthene

Concen: 236.385 ng

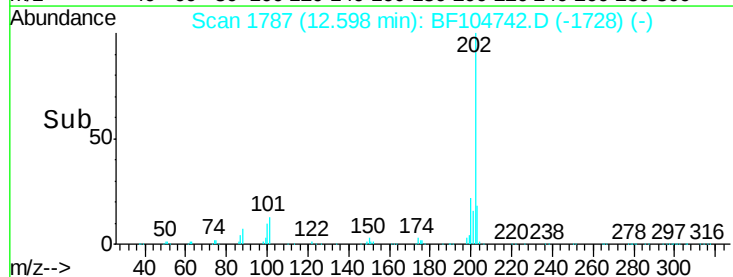
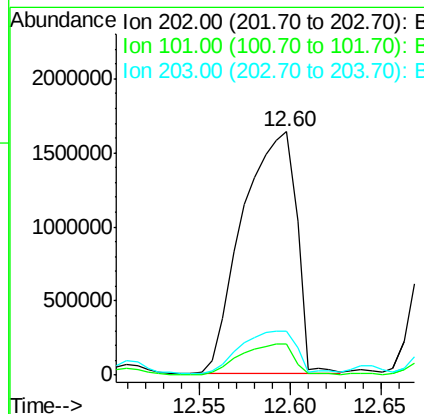
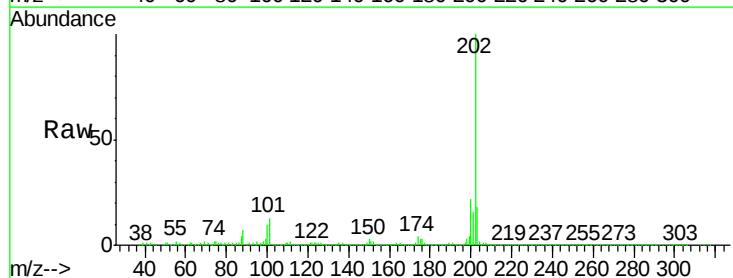
RT: 12.60 min Scan# 1787

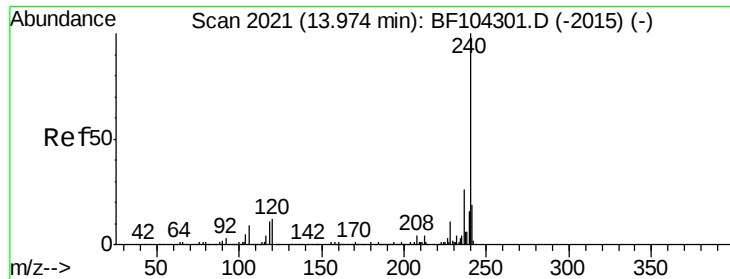
Delta R.T. 0.05 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Tgt Ion:	202	Resp:	3369255
Ion Ratio		Lower	Upper
202	100		
101	13.0	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.04 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Instrument :

BNA_F

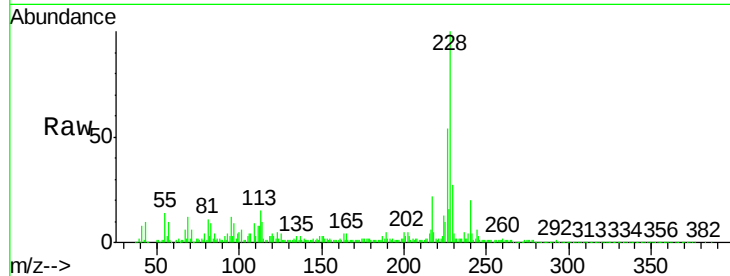
ClientSampleId :

A2-SB01-BOT-4.5

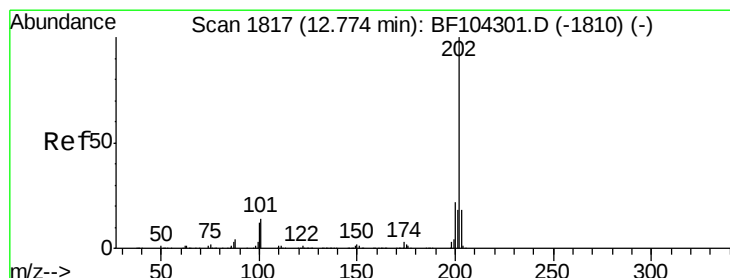
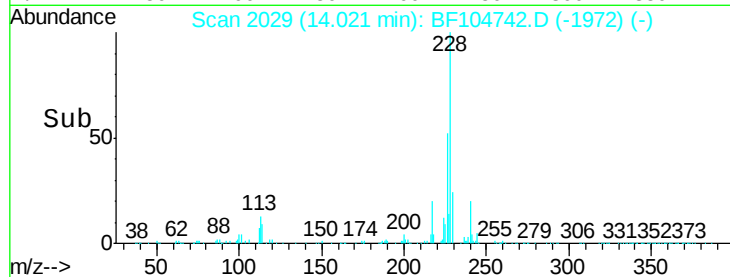
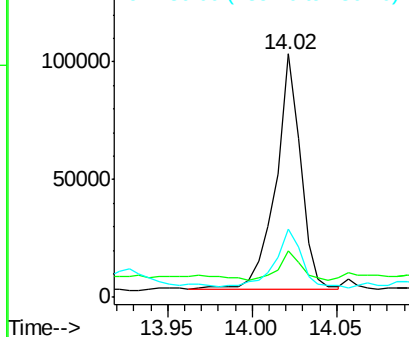
Tot Ion:	240	Resp:	100996
Ion Ratio	Lower	Upper	
240	100		
120	19.2	9.5	14.3#
236	27.9	20.7	31.1

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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: 438.366 ng

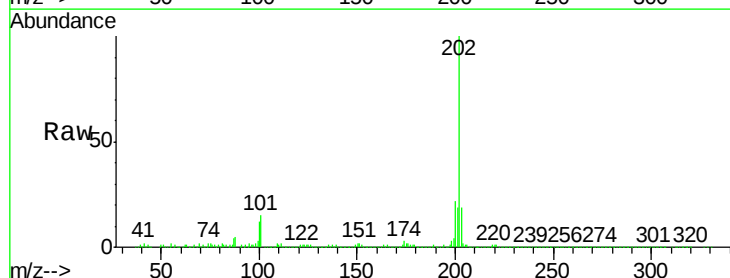
RT: 12.83 min Scan# 1827

Delta R.T. 0.05 min

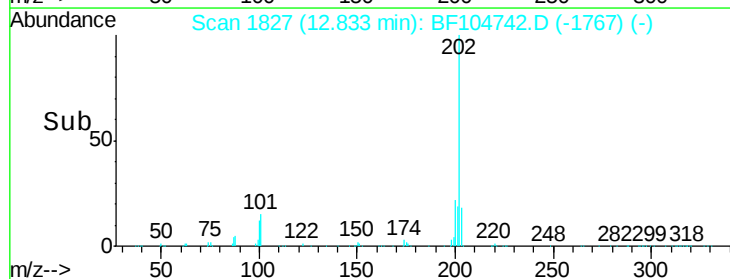
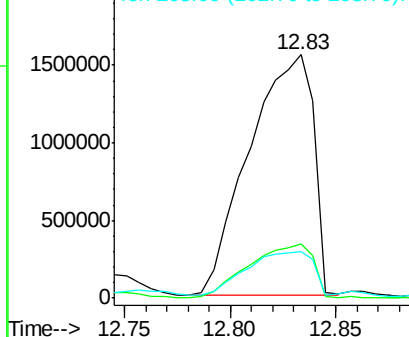
Lab File: BF104742.D

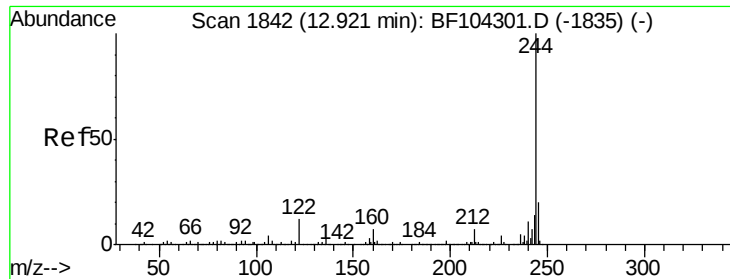
Acq: 24 Apr 2018 7:50

Tgt Ion:	202	Resp:	3281682
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.4	26.2
203	19.2	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: 105.783 ng

RT: 12.94 min Scan# 1845

Delta R.T. 0.02 min

Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Instrument :

BNA_F

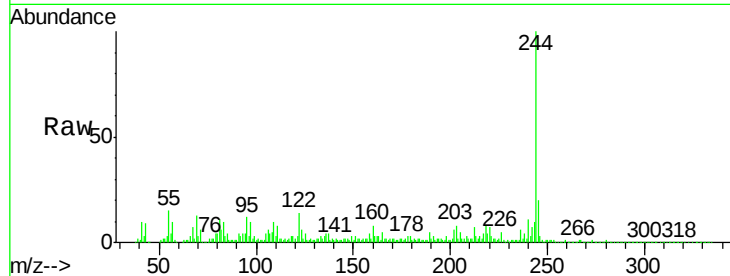
ClientSampleId :

A2-SB01-BOT-4.5

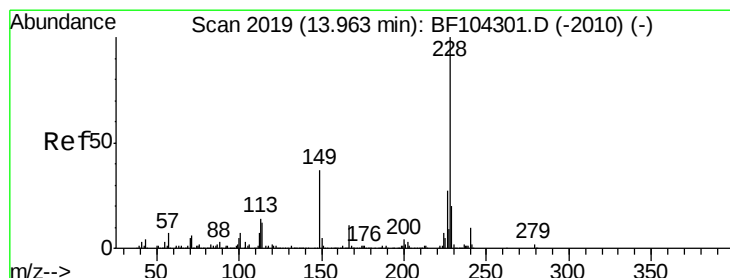
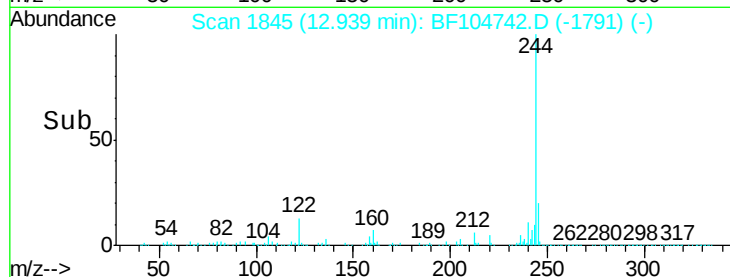
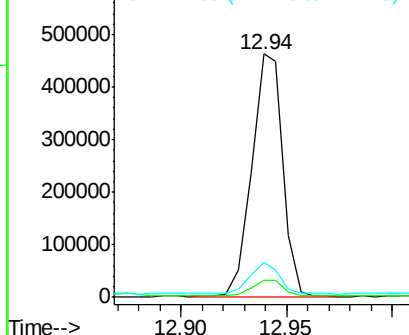
Tot Ion:	244	Resp:	468615
Ion Ratio		Lower	Upper
244	100		
212	7.1	5.4	8.0
122	14.2	11.0	16.4

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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: 255.571 ng

RT: 14.02 min Scan# 2028

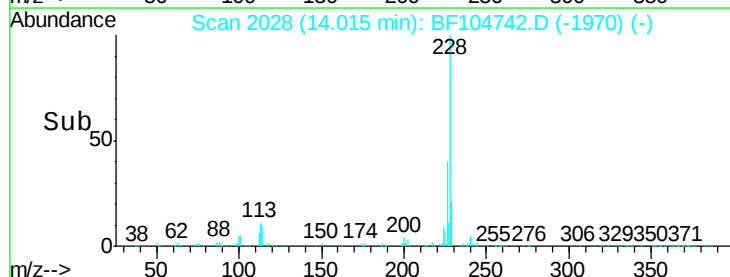
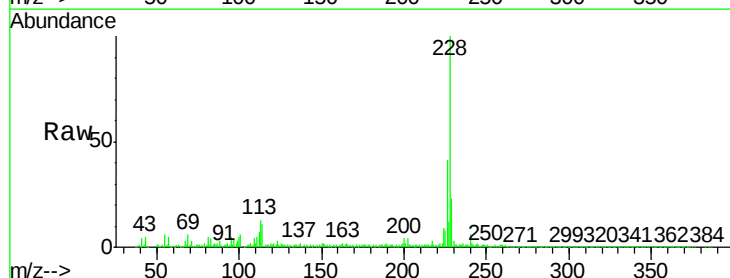
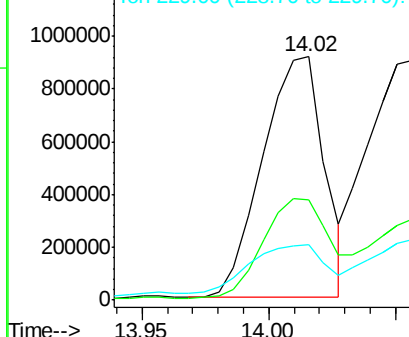
Delta R.T. 0.04 min

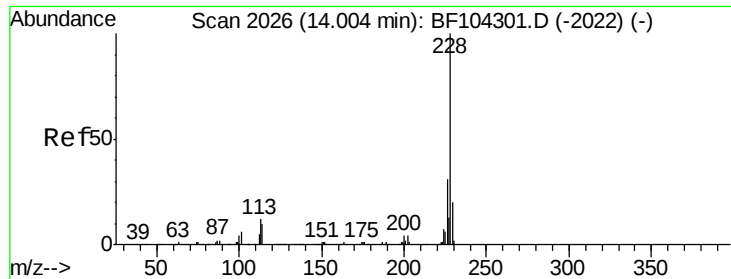
Lab File: BF104742.D

Acq: 24 Apr 2018 7:50

Tgt Ion:	228	Resp:	1542013
Ion Ratio		Lower	Upper
228	100		
226	40.9	22.6	33.8#
229	22.7	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





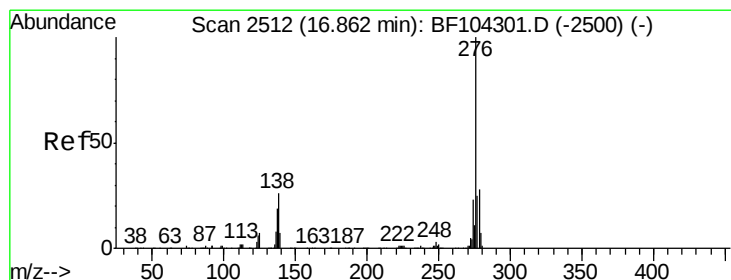
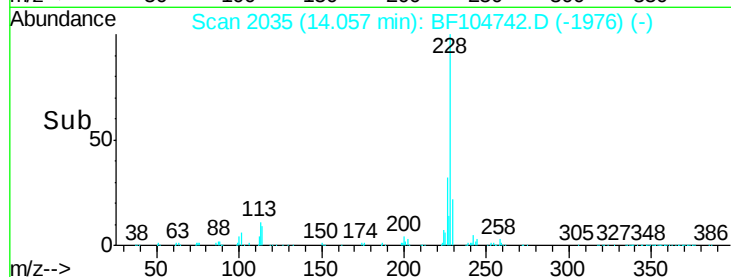
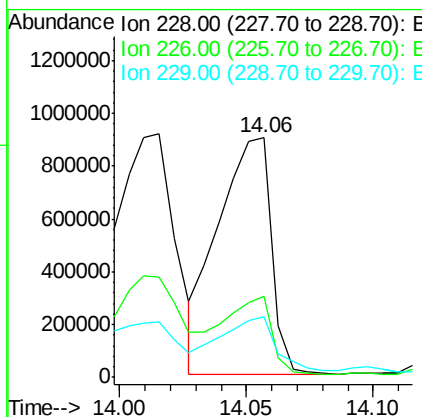
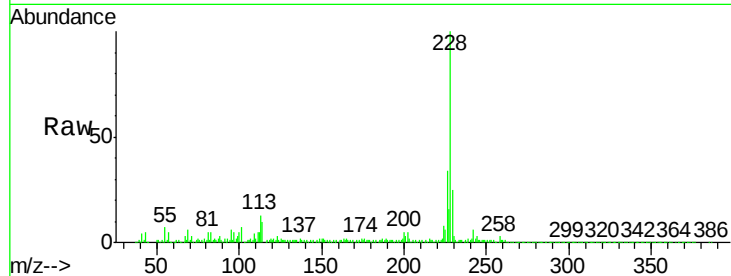
#82
Chrysene
Concen: 212.726 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.05 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion:228 Resp: 1318355
Ion Ratio Lower Upper
228 100
226 33.7 25.0 37.6
229 25.2 16.2 24.4#

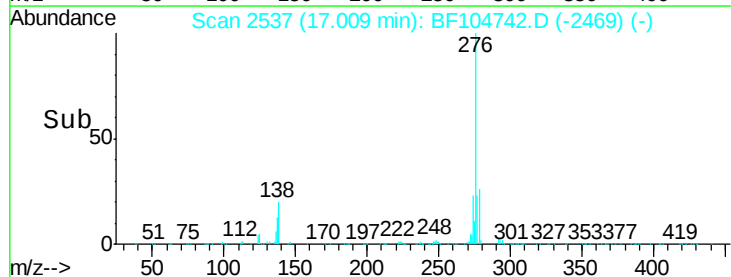
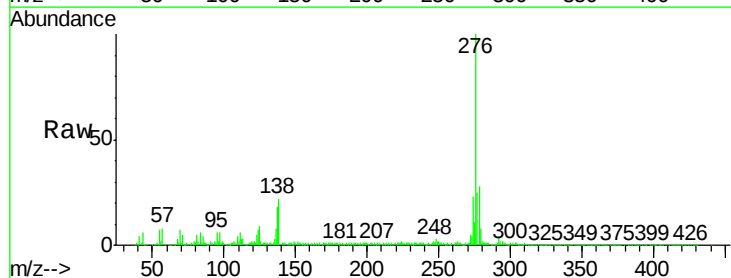
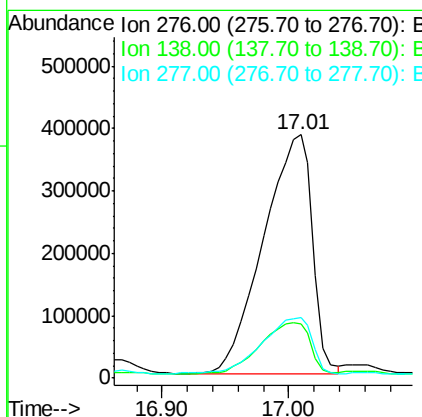
Manual Integrations
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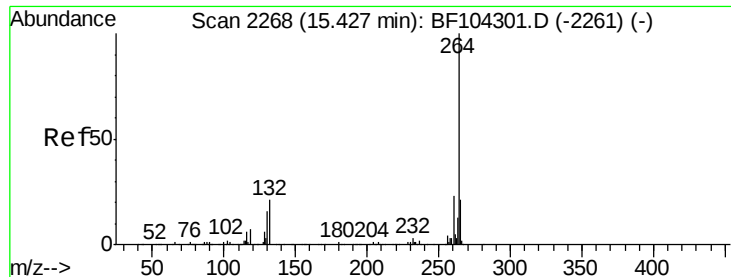
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 195.339 ng
RT: 17.01 min Scan# 2537
Delta R.T. 0.10 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion:276 Resp: 1028390
Ion Ratio Lower Upper
276 100
138 22.3 25.0 37.6#
277 23.9 20.1 30.1





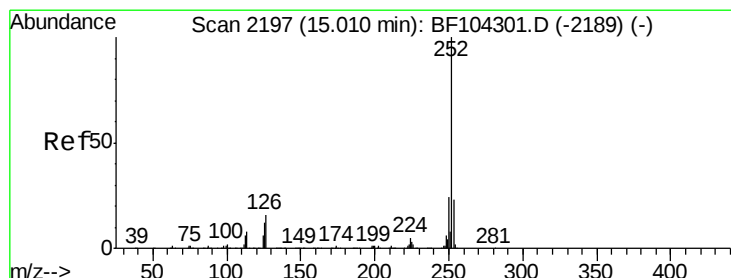
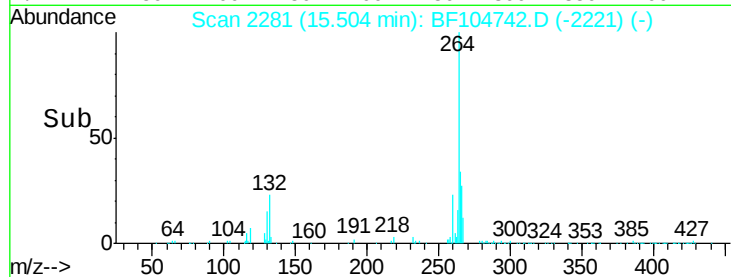
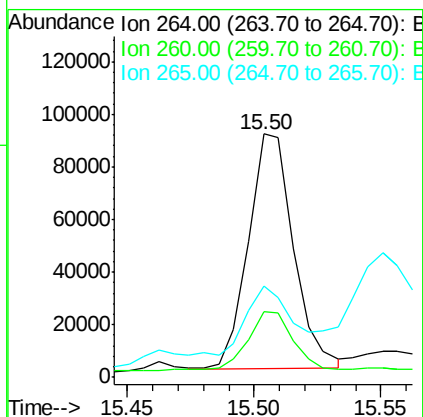
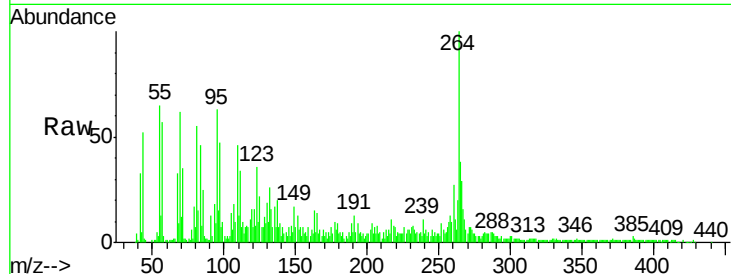
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.05 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	27.0	19.2	28.8
265	37.6	17.5	26.3

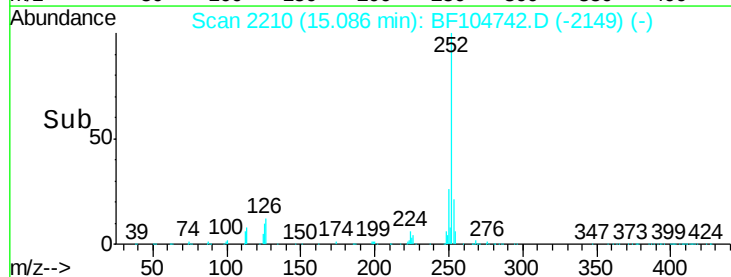
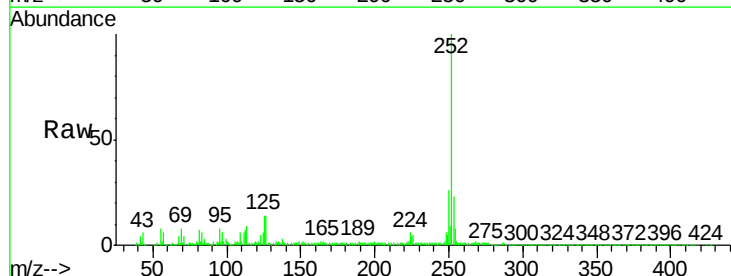
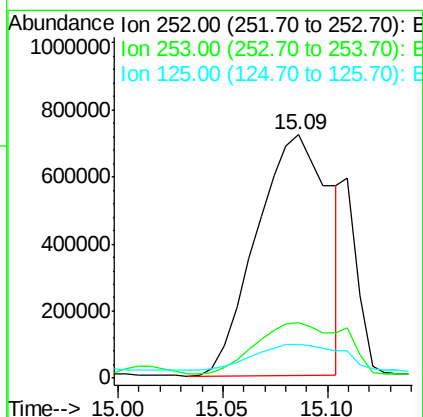
Manual Integrations
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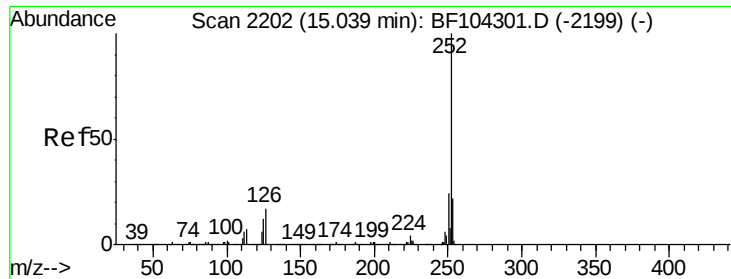
Sohil
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#87
Benzo(b)fluoranthene
Concen: 249.972 ng m
RT: 15.09 min Scan# 2210
Delta R.T. 0.06 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	14.1	9.0	13.6





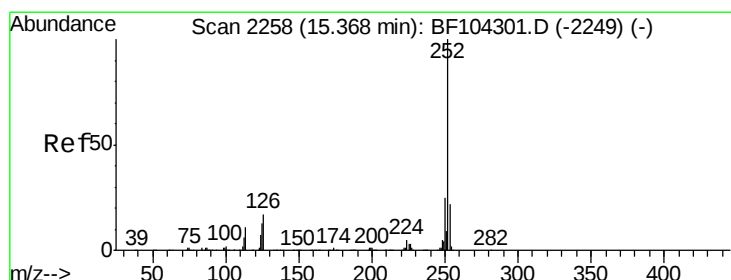
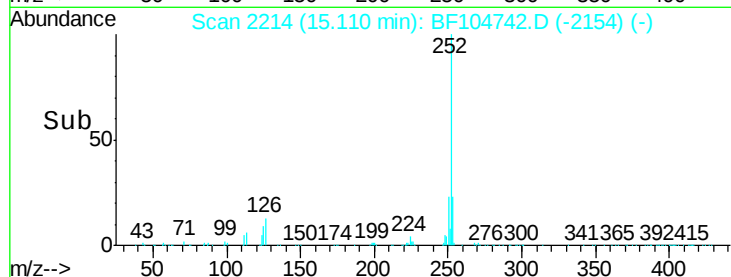
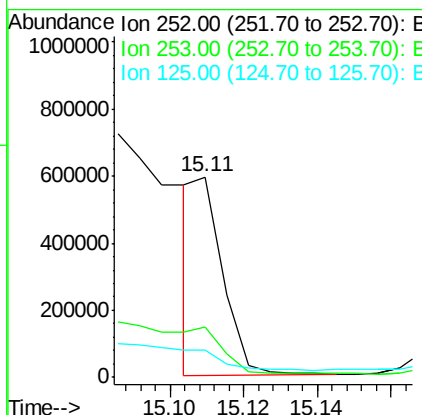
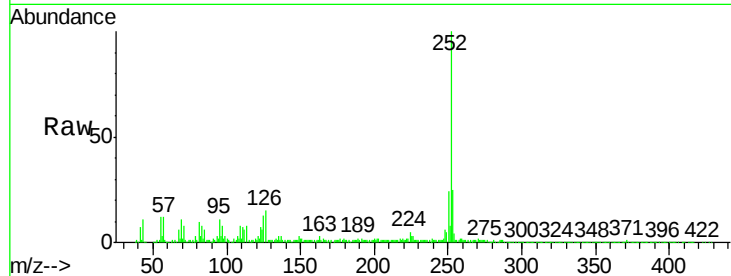
#88
Benzo(k)fluoranthene
Concen: 47.327 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.05 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	13.5	10.2	15.2

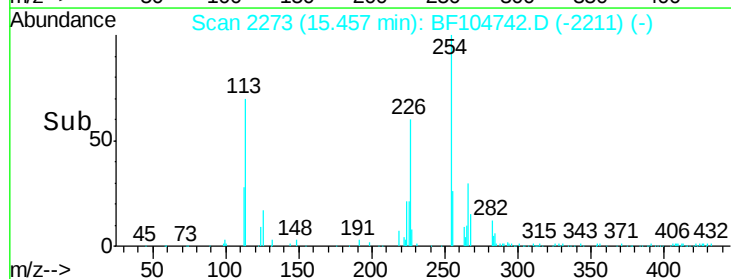
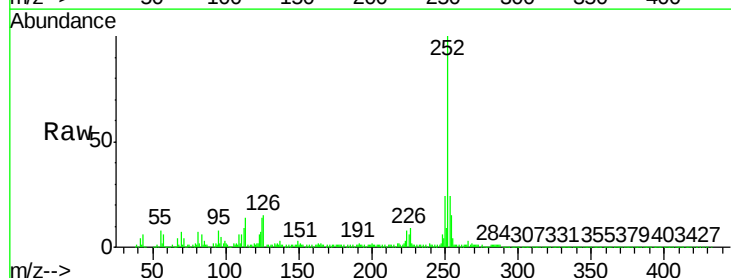
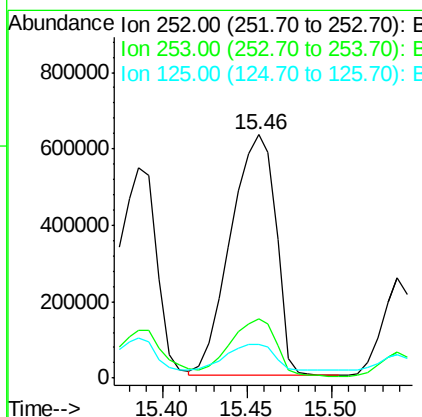
Manual Integrations
APPROVED

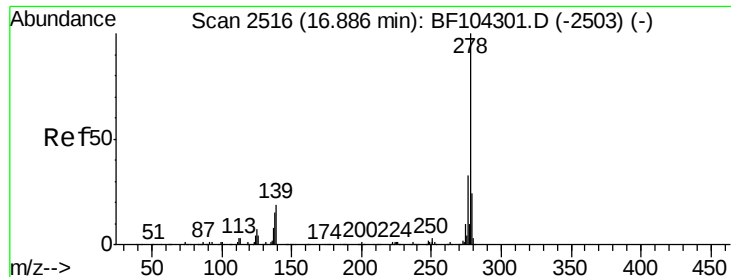
Sohil
4/24/2018 3:49:13 PM



#89
Benzo(a)pyrene
Concen: 190.236 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.06 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	13.8	9.8	14.6





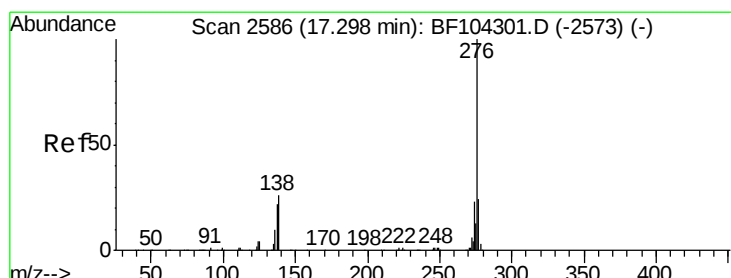
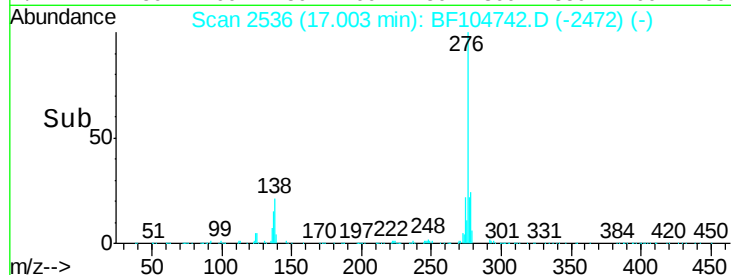
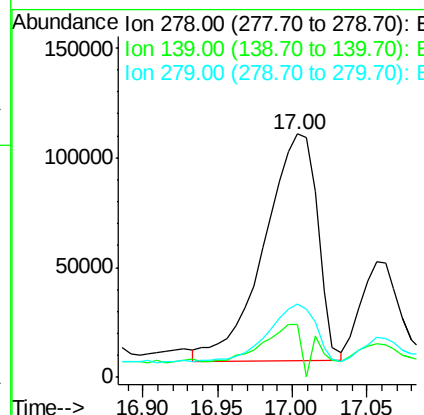
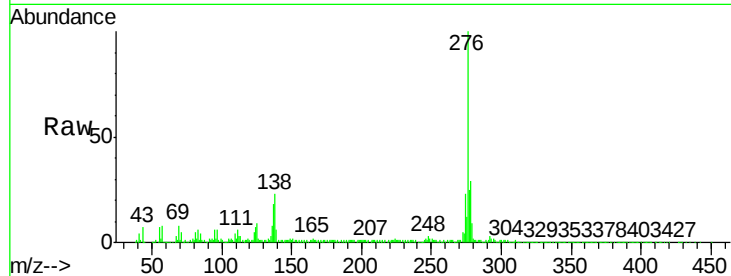
#90
Dibenzo(a,h)anthracene
Concen: 49.842 ng m
RT: 17.00 min Scan# 2536
Delta R.T. 0.08 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Instrument :
BNA_F
ClientSampleId :
A2-SB01-BOT-4.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.7	15.9	23.9
279	30.1	19.0	28.4

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 227.333 ng
RT: 17.47 min Scan# 2615
Delta R.T. 0.12 min
Lab File: BF104742.D
Acq: 24 Apr 2018 7:50

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	17.9	26.9
138	24.3	21.8	32.8

