

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104811.D
 Acq On : 26 Apr 2018 2:32
 Operator : JU/SJ
 Sample : J2497-07 10X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5

Manual Integrations
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Sohil
 4/26/2018 6:14:57 PM

Quant Time: Apr 26 14:36:17 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	99223	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	405127	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	171549	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	252965	20.00	ng	0.00
75) Chrysene-d12	13.99	240	199415	20.00	ng	0.00
86) Perylene-d12	15.45	264	161921	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	74171	11.43	ng	0.00
7) Phenol-d6	6.43	99	90895	11.40	ng	-0.01
23) Nitrobenzene-d5	7.36	82	53386	8.60	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	14820	8.33	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	81718	7.53	ng	0.00
78) Terphenyl-d14	12.92	244	50602	5.79	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.11	128	977201	48.441	ng	100
37) 2-Methylnaphthalene	8.80	142	191694	14.690	ng	97
45) 1,1'-Biphenyl	9.26	154	60708	4.213	ng	98
48) Acenaphthylene	9.70	152	231139	12.942	ng	99
51) Acenaphthene	9.87	154	179050	16.431	ng	99
54) Dibenzofuran	10.05	168	223189	14.697	ng	99
57) Fluorene	10.39	166	344034	31.125	ng	99
70) Phenanthrene	11.36	178	1130390	80.241	ng	99
71) Anthracene	11.41	178	367119	25.637	ng	98
72) Carbazole	11.56	167	99585	7.117	ng	99
74) Fluoranthene	12.56	202	1119271	76.044	ng	97
77) Pyrene	12.79	202	967860	65.479	ng	99
80) Benzo(a)anthracene	13.97	228	578660m	48.573	ng	
82) Chrysene	14.01	228	515939m	42.163	ng	
85) Indeno(1,2,3-cd)pyrene	16.92	276	217592m	20.932	ng	
87) Benzo(b)fluoranthene	15.03	252	585237m	57.227	ng	
88) Benzo(k)fluoranthene	15.05	252	206717m	21.411	ng	
89) Benzo(a)pyrene	15.39	252	420217	45.924	ng	97
90) Dibenzo(a,h)anthracene	16.92	278	64386m	8.567	ng	
91) Benzo(a,h,i)perylene	17.36	276	200150	27.490	ng	94

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

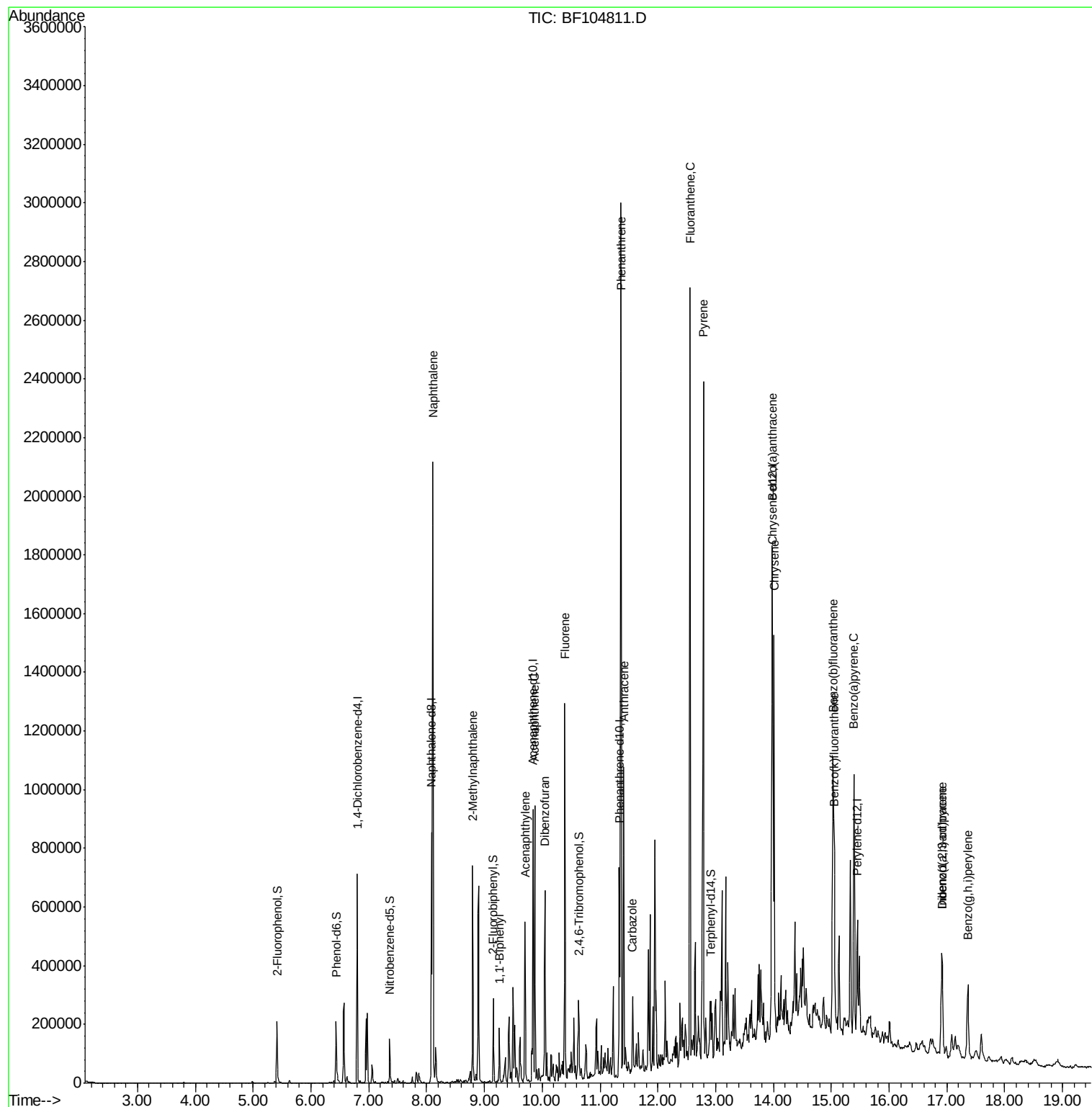
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
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Misc :
ALS Vial : 30 Sample Multiplier: 1

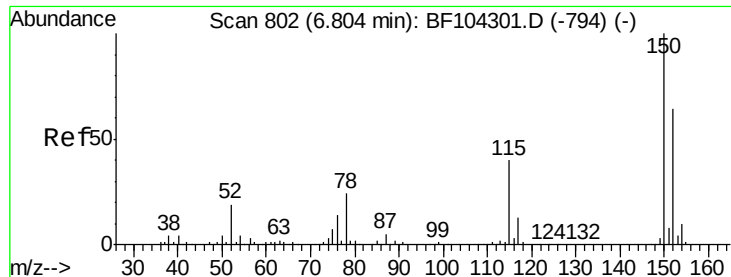
Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

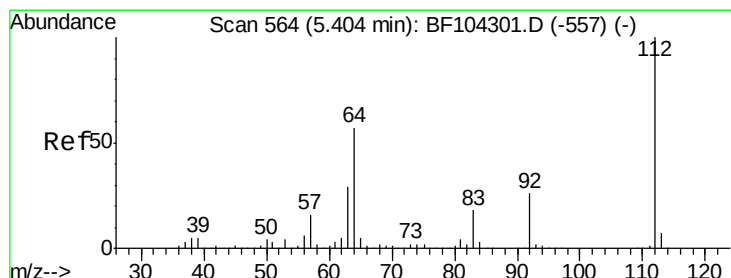
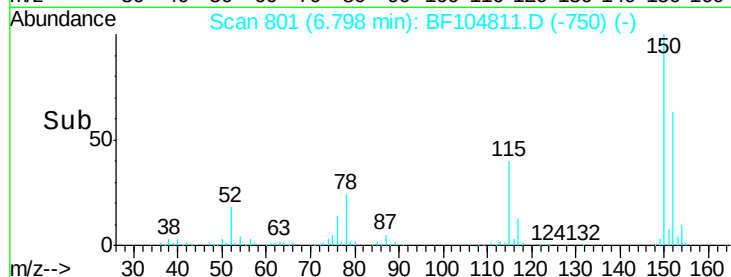
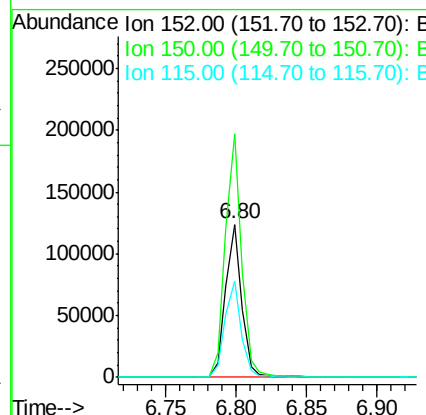
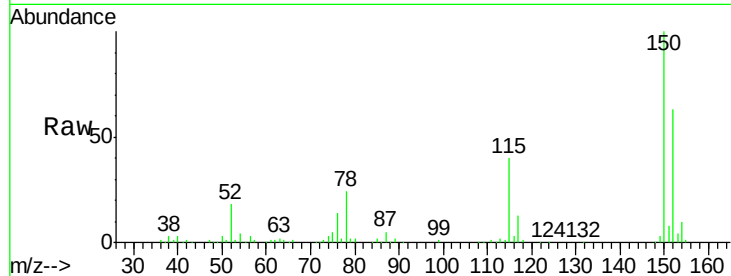
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. 0.00 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.6	186.8
115	63.1	50.1	75.1

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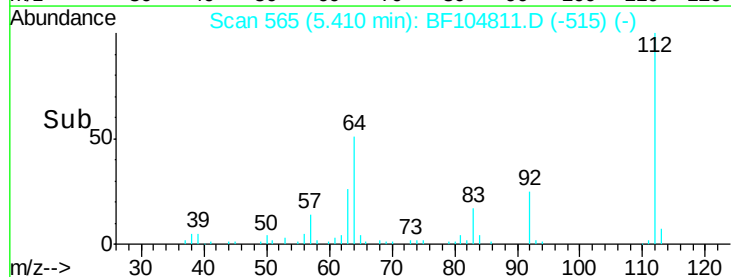
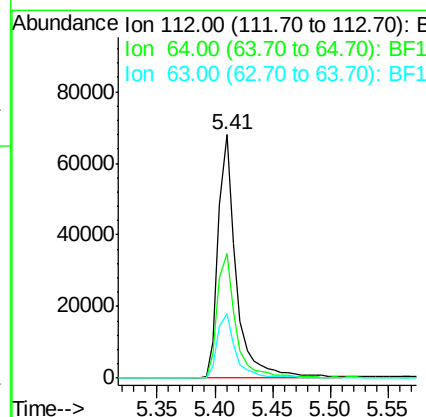
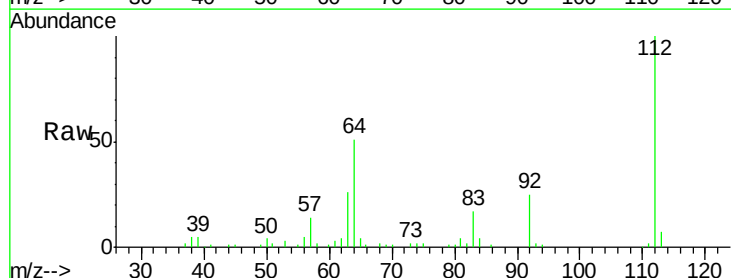
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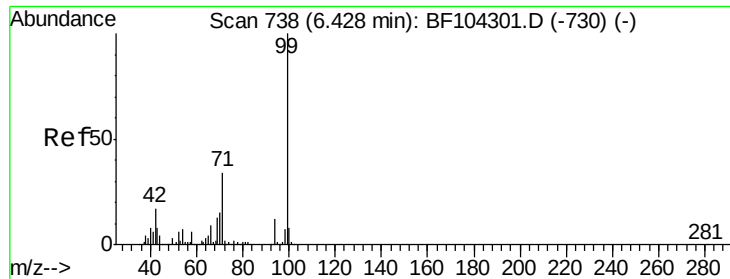


#5

2-Fluorophenol
Concen: 11.430 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.0	47.9	71.9
63	26.3	23.7	35.5





#7

Phenol-d6

Concen: 11.400 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

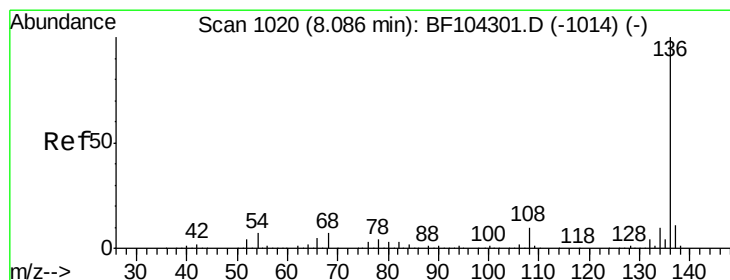
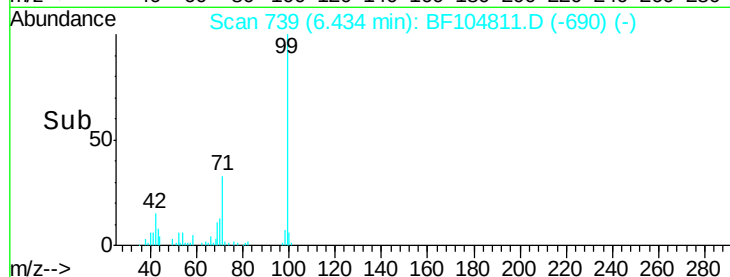
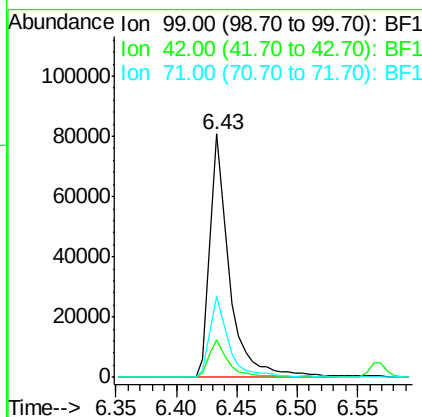
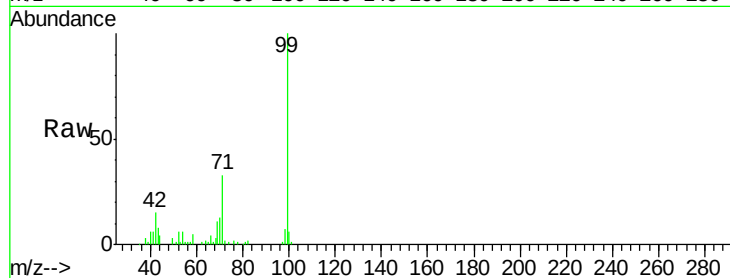
ClientSampleId :

A2-SB02-BOT-W-8.5

Tot Ion:	99	Resp:	90895
Ion Ratio	Lower	Upper	
99	100		
42	15.2	14.5	21.7
71	33.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

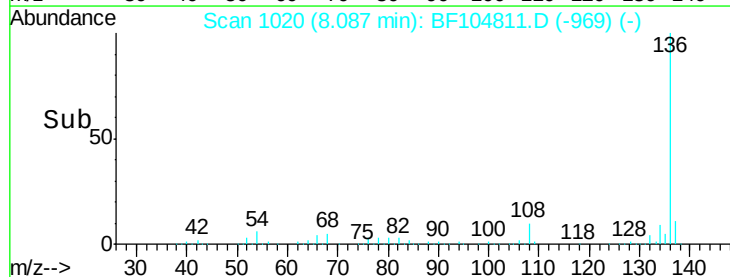
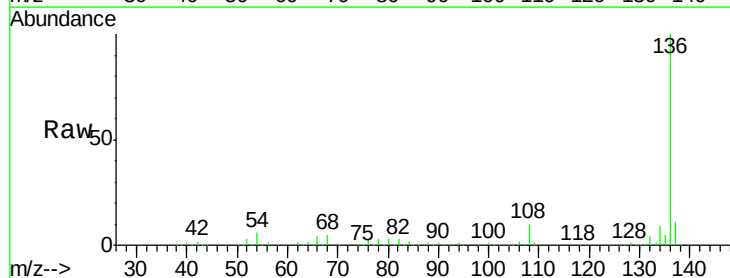
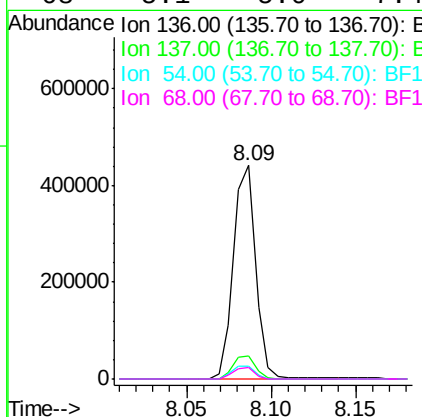
RT: 8.09 min Scan# 1020

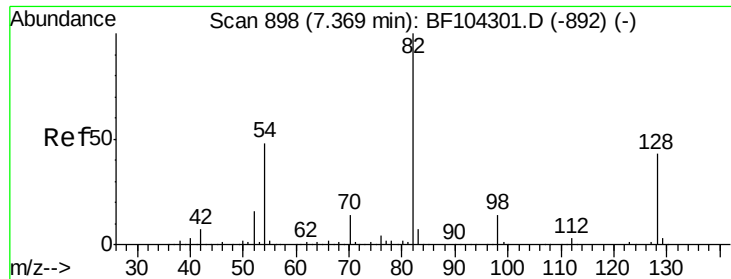
Delta R.T. 0.00 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion:	136	Resp:	405127
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	6.0	6.6	9.8
68	5.1	5.0	7.4





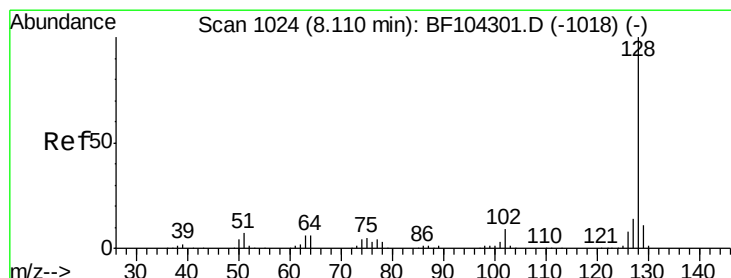
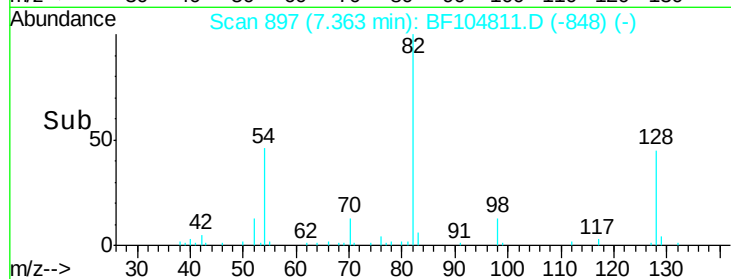
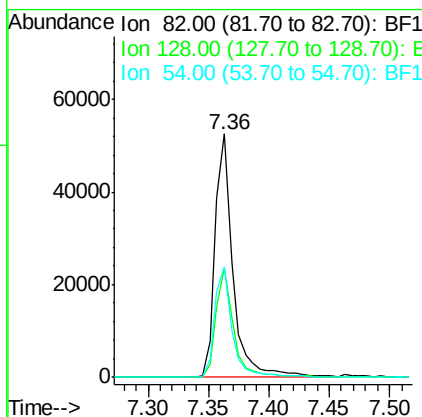
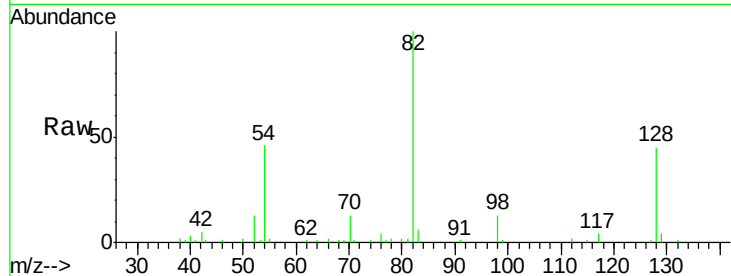
#23
Nitrobenzene-d5
Concen: 8.605 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.6	36.1	54.1
54	45.6	41.4	62.2

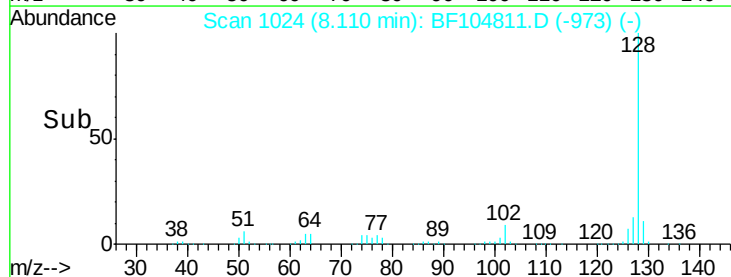
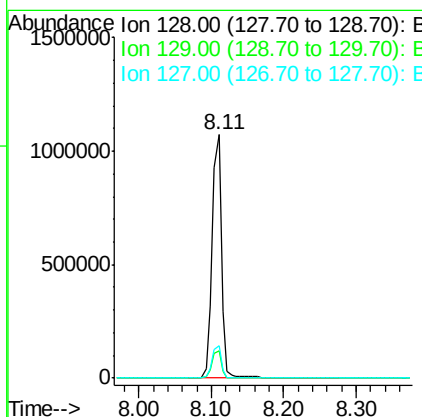
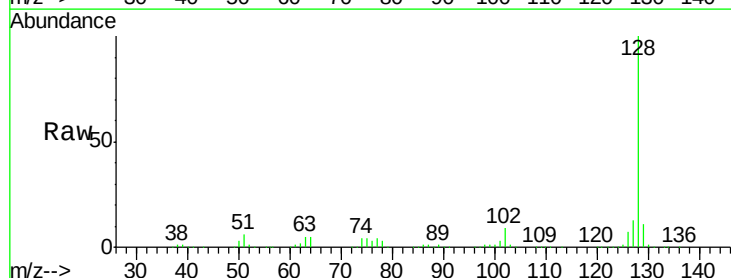
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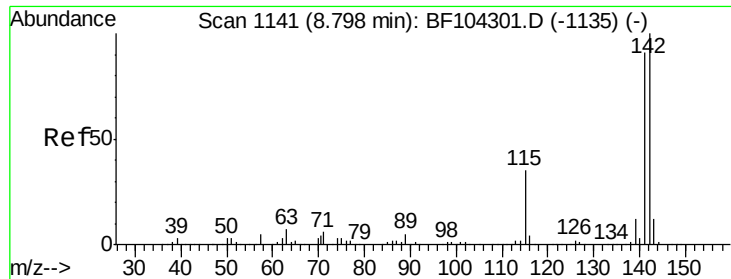
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#31
Naphthalene
Concen: 48.441 ng
RT: 8.11 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.9	16.3





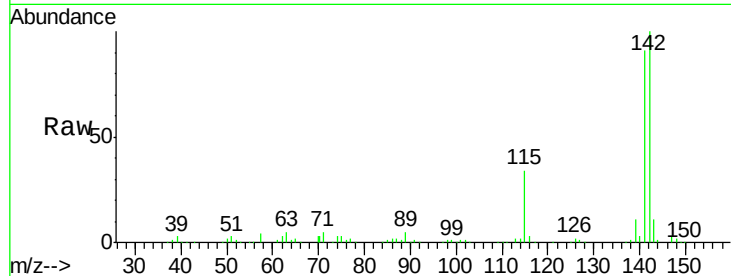
#37
2-Methylnaphthalene
Concen: 14.690 ng
RT: 8.80 min Scan# 1141
Delta R.T. 0.00 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

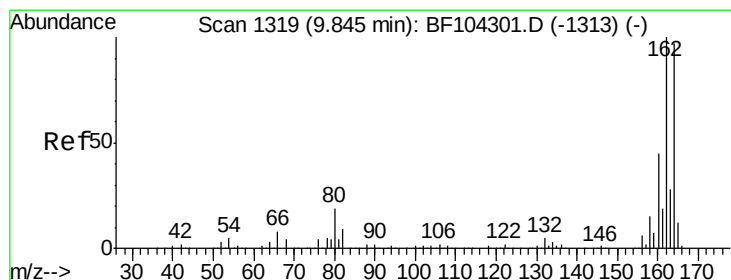
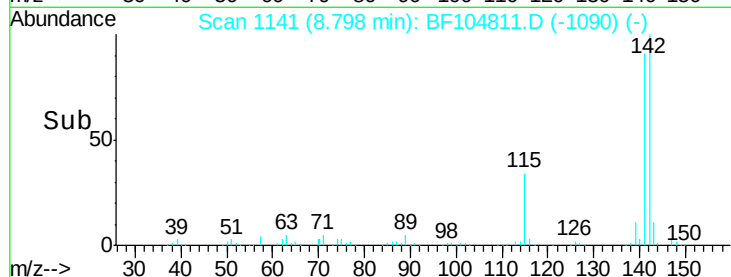
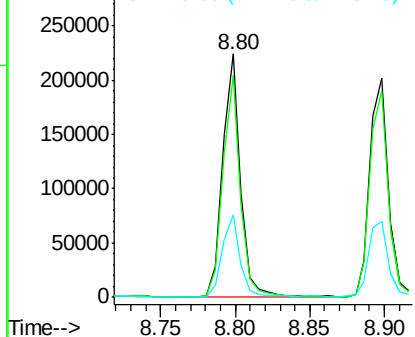
Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	70.8	106.2
115	33.8	26.1	39.1

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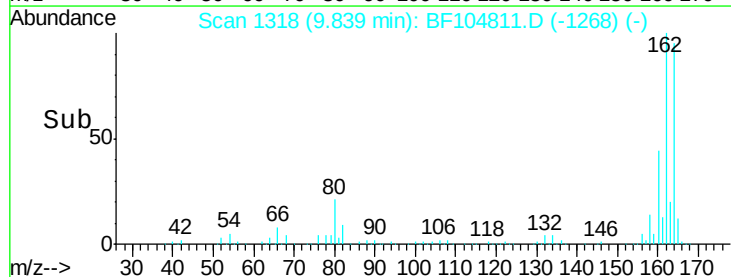
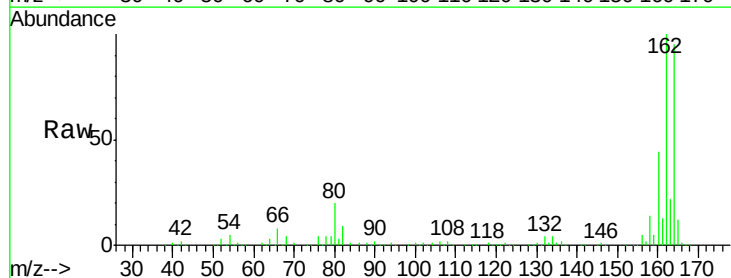
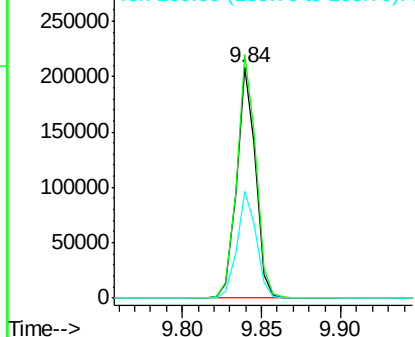
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

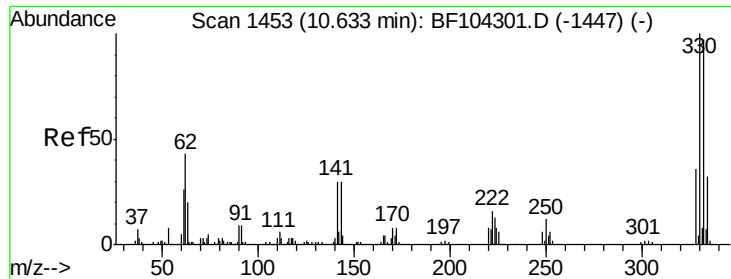


#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	86.1	129.1
160	46.5	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: 8.328 ng

RT: 10.63 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

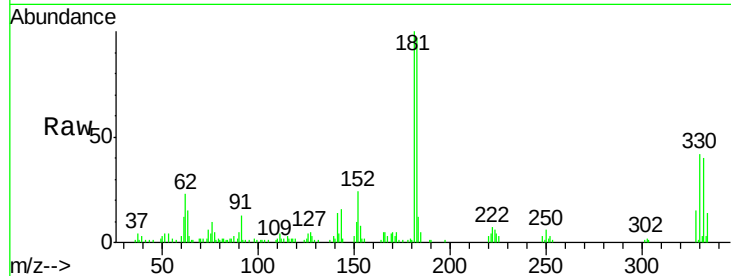
ClientSampleId :

A2-SB02-BOT-W-8.5

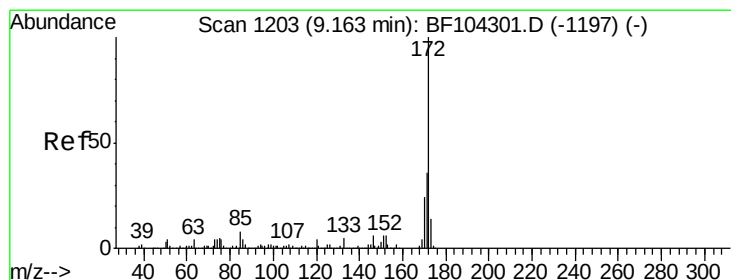
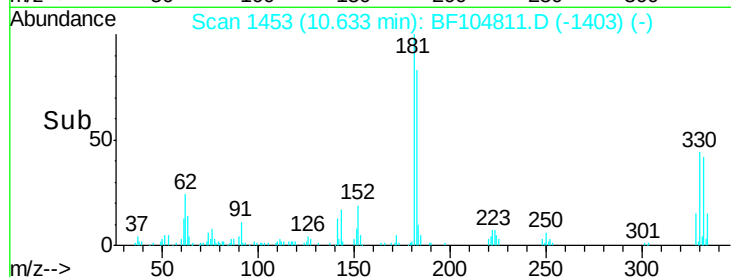
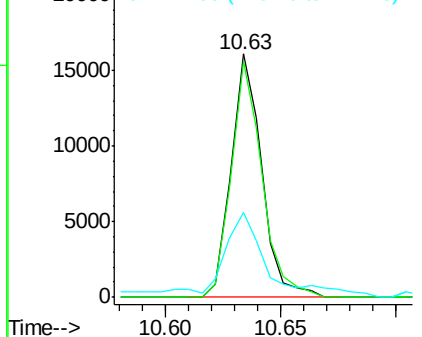
Tot Ion:	330	Resp:	14820
Ion Ratio	Lower	Upper	
330	100		
332	97.7	77.0	115.6
141	51.5	29.9	44.9#

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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: 7.525 ng

RT: 9.16 min Scan# 1202

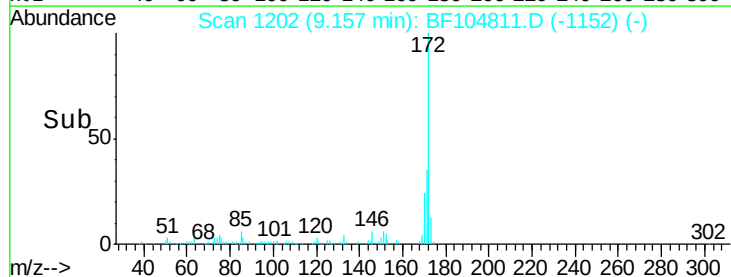
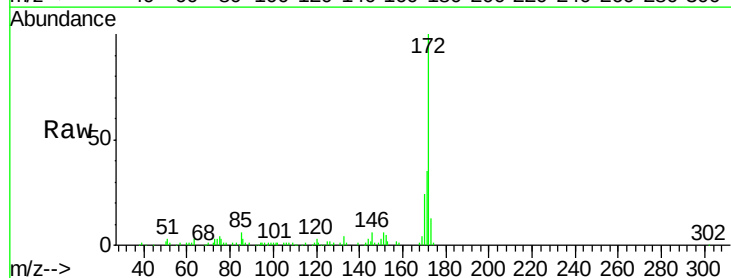
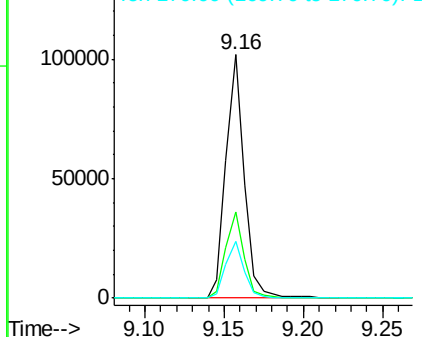
Delta R.T. -0.01 min

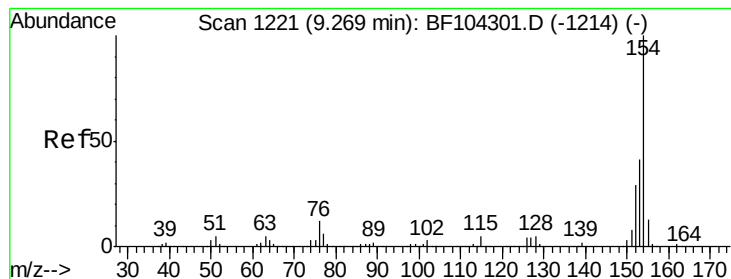
Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion:	172	Resp:	81718
Ion Ratio	Lower	Upper	
172	100		
171	35.3	29.7	44.5
170	23.5	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





#45

1,1'-Biphenyl

Concen: 4.213 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

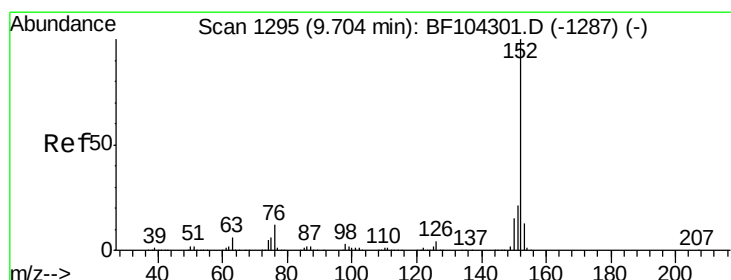
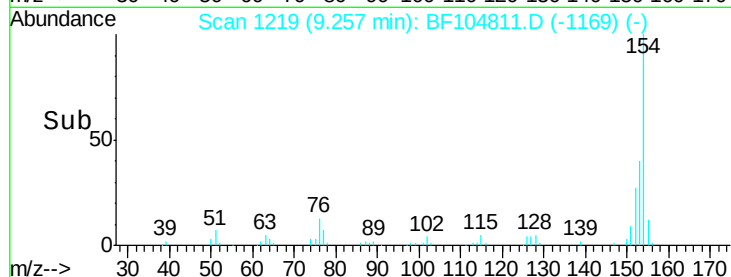
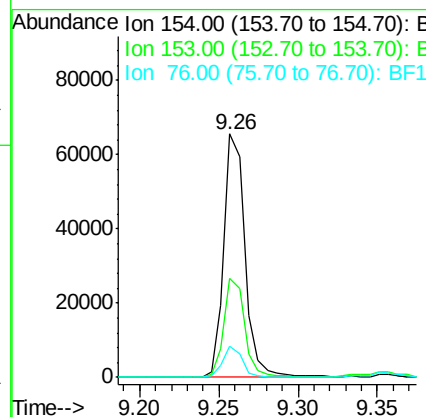
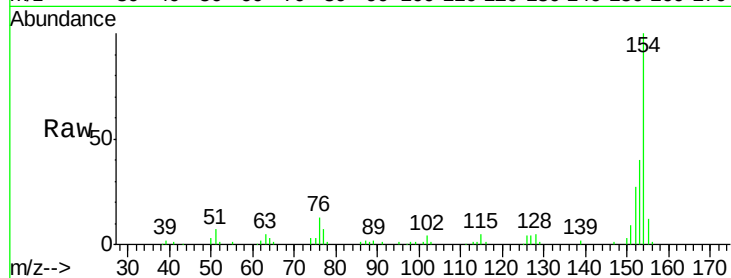
ClientSampleId :

A2-SB02-BOT-W-8.5

Tot Ion:	154	Resp:	60708
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	12.6	0.0	34.0

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#48

Acenaphthylene

Concen: 12.942 ng

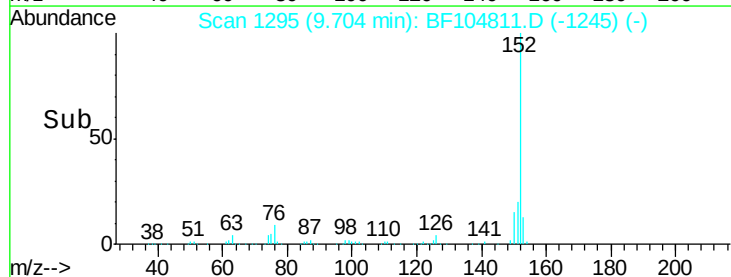
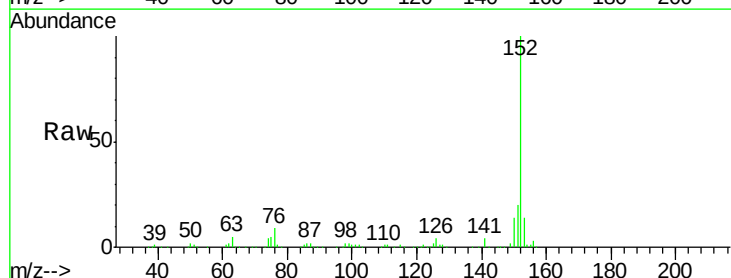
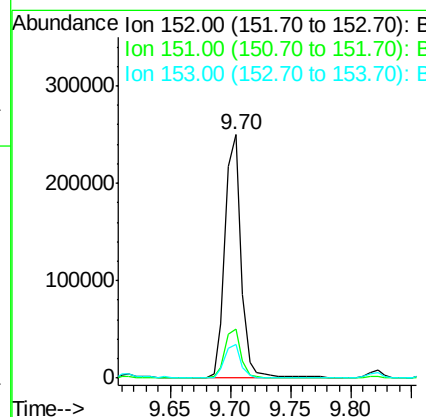
RT: 9.70 min Scan# 1295

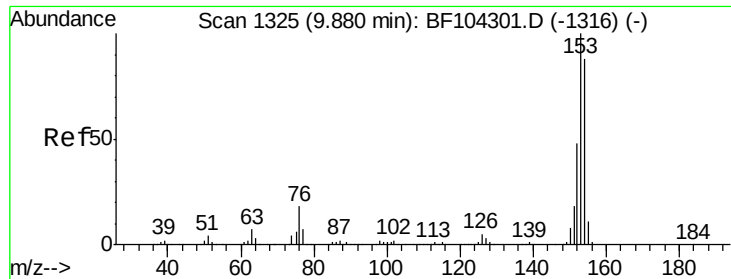
Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion:	152	Resp:	231139
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	13.6	10.7	16.1





#51

Acenaphthene

Concen: 16.431 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

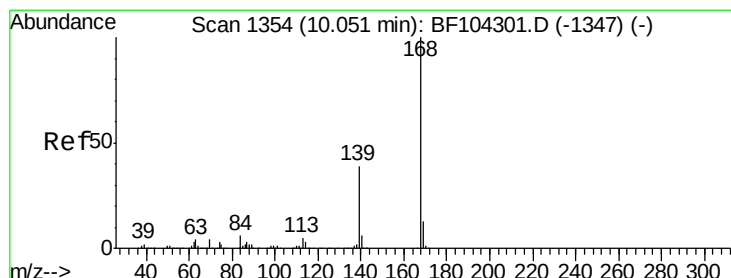
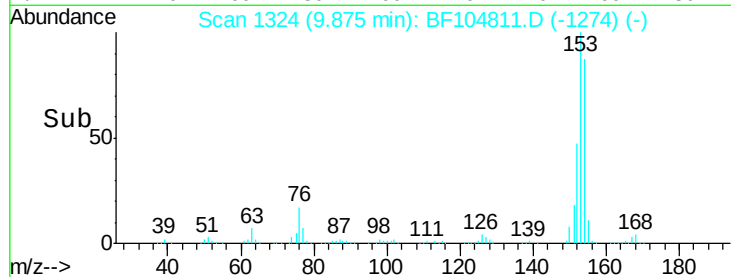
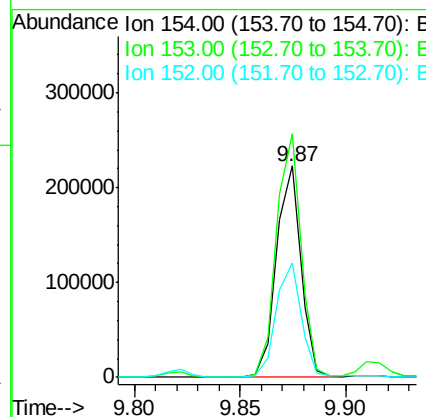
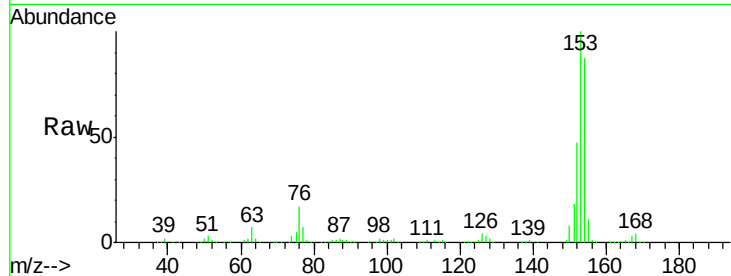
ClientSampleId :

A2-SB02-BOT-W-8.5

Tot Ion:	154	Resp:	179050
Ion Ratio	Lower	Upper	
154	100		
153	115.3	91.2	136.8
152	54.4	43.8	65.8

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#54

Dibenzofuran

Concen: 14.697 ng

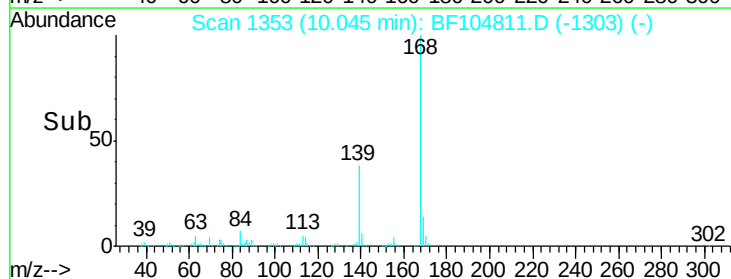
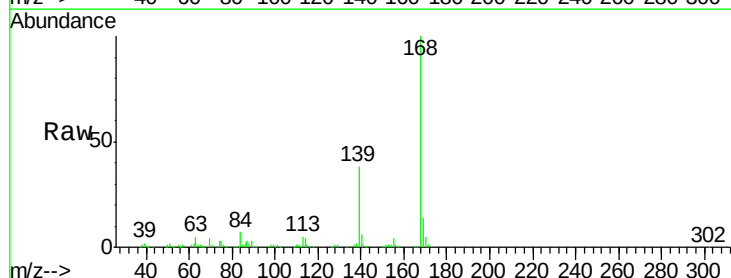
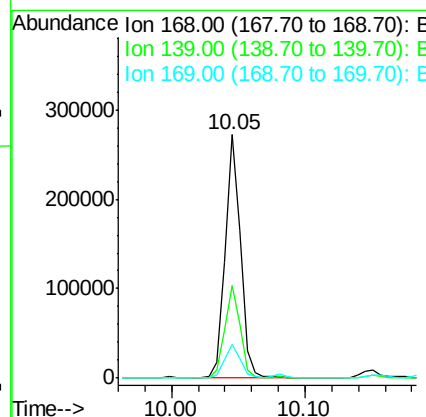
RT: 10.05 min Scan# 1353

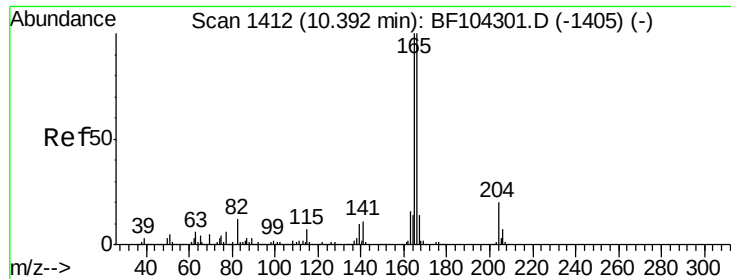
Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion:	168	Resp:	223189
Ion Ratio	Lower	Upper	
168	100		
139	38.2	30.1	45.1
169	13.9	10.9	16.3





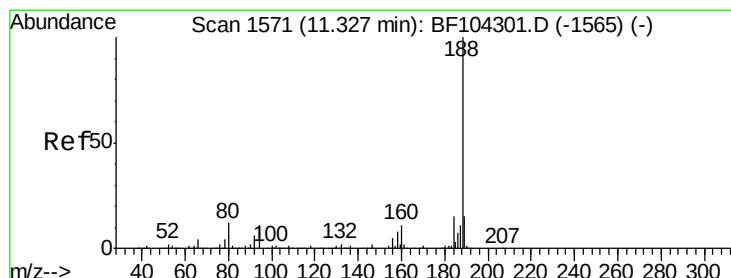
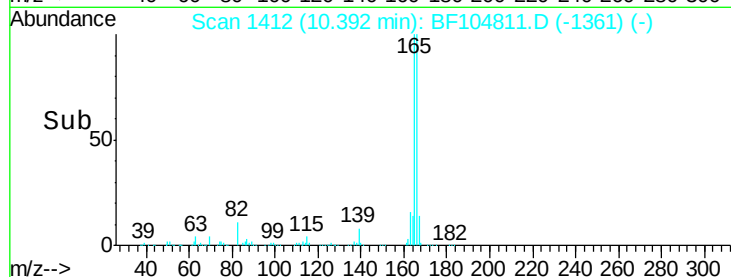
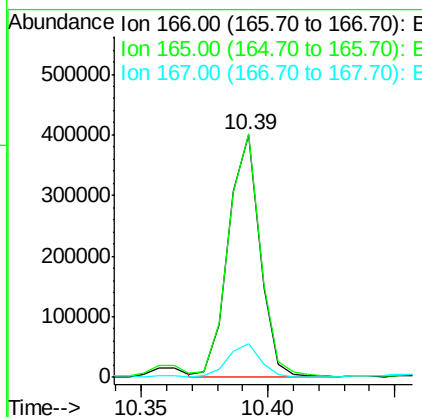
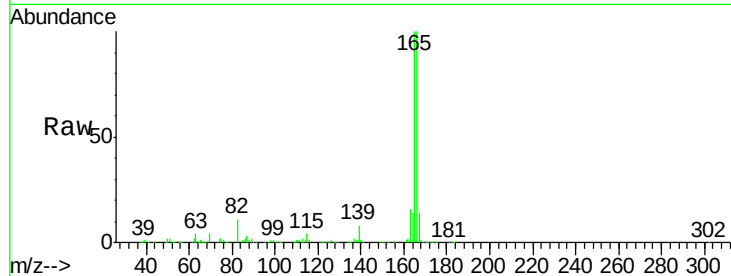
#57
Fluorene
 Concen: 31.125 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. 0.00 min
 Lab File: BF104811.D
 Acq: 26 Apr 2018 2:32

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.4	79.8	119.8	
167	14.1	10.6	16.0	

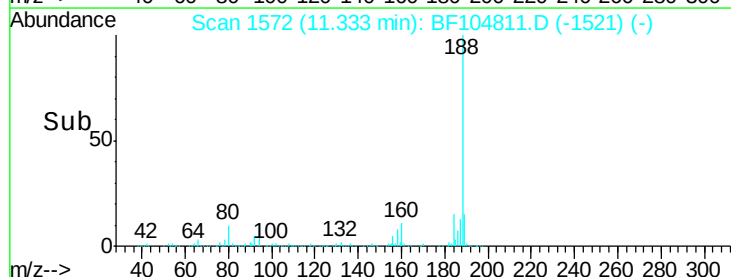
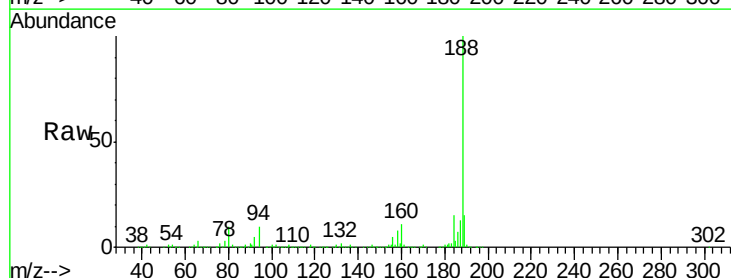
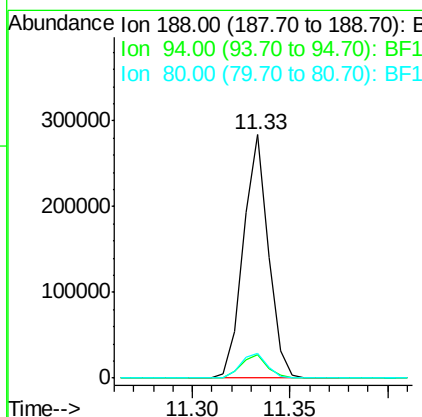
Manual Integrations
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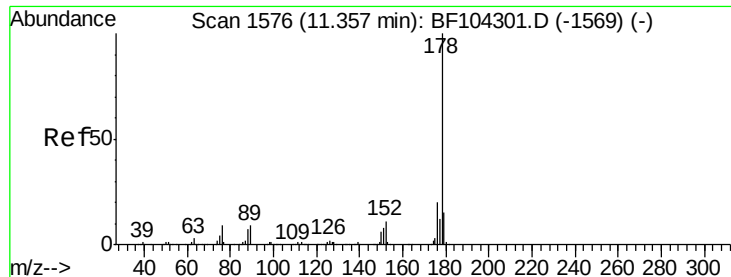
Sohil
 4/26/2018 6:14:57 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: BF104811.D
 Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	9.7	8.5	12.7	
80	10.1	9.2	13.8	





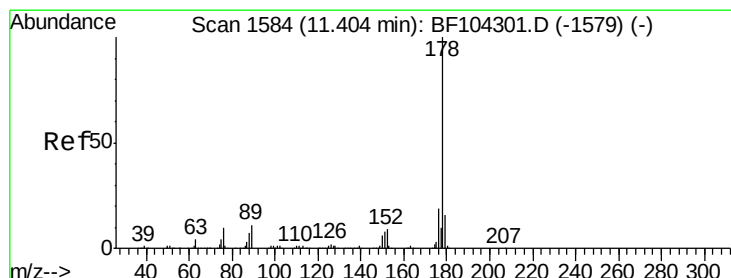
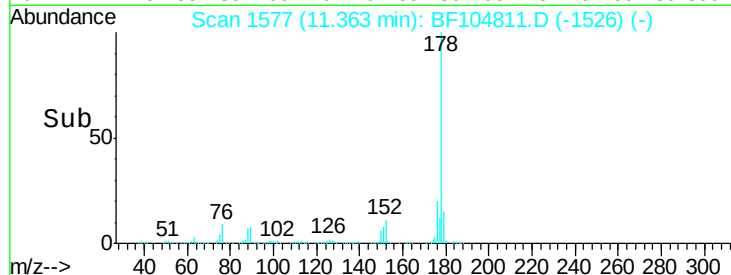
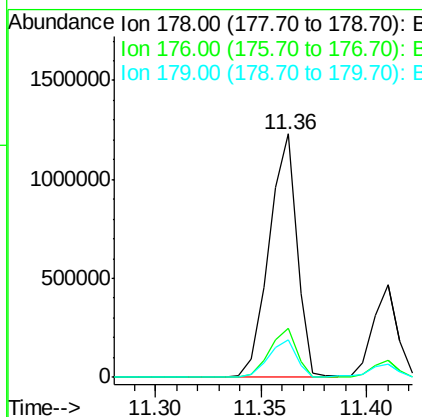
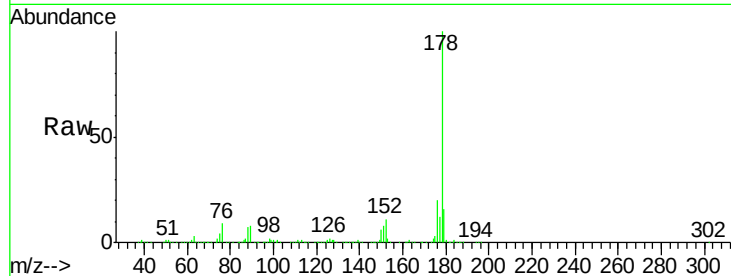
#70
Phenanthrene
Concen: 80.241 ng
RT: 11.36 min Scan# 1577
Delta R.T. 0.00 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

Tot Ion:178 Resp: 1130390
Ion Ratio Lower Upper
178 100
176 20.0 15.8 23.8
179 15.5 13.0 19.6

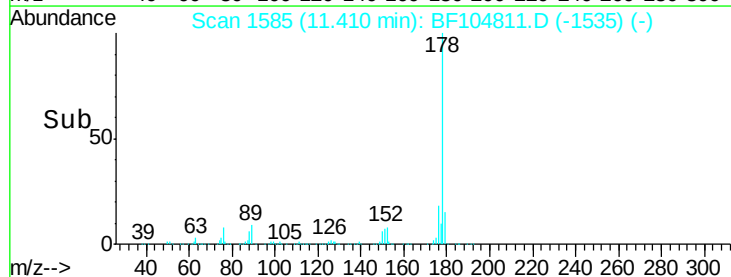
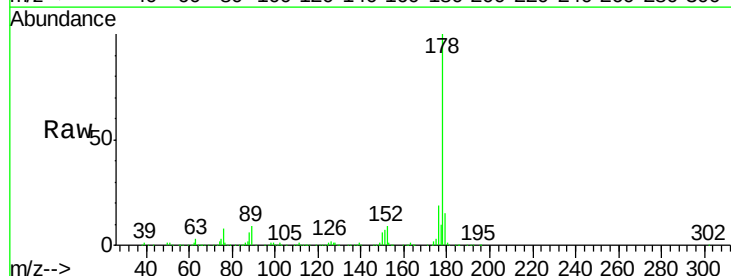
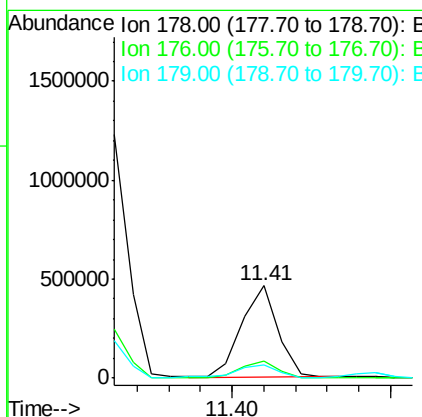
Manual Integrations
APPROVED

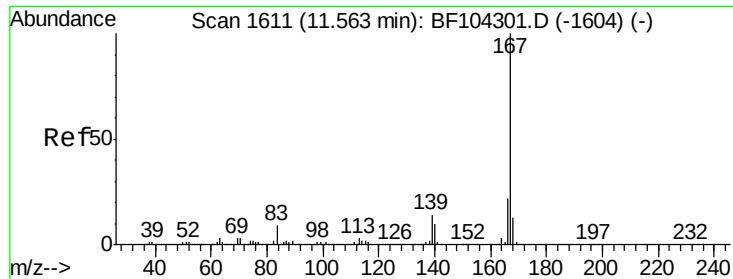
Sohil
4/26/2018 6:14:57 PM



#71
Anthracene
Concen: 25.637 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion:178 Resp: 367119
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 14.9 12.6 19.0





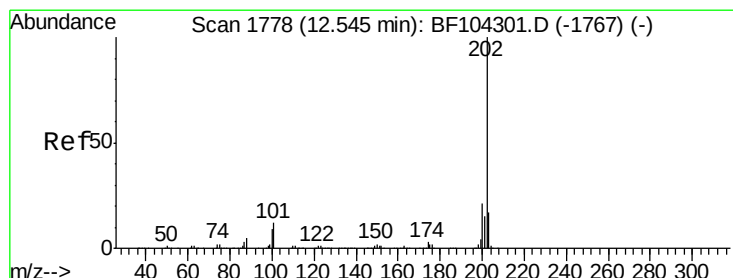
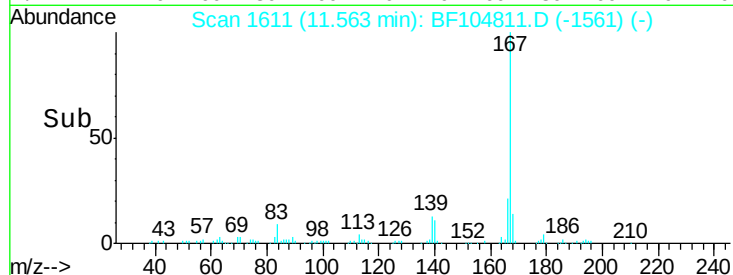
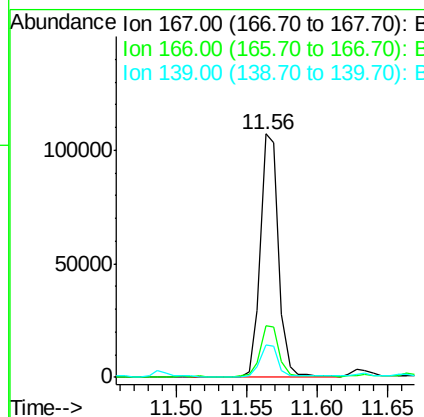
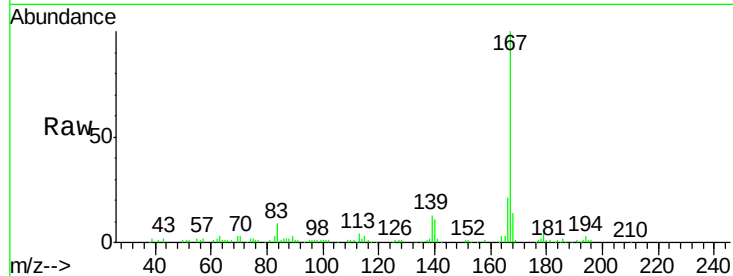
#72
 Carbazole
 Concen: 7.117 ng
 RT: 11.56 min Scan# 1611
 Delta R.T. -0.01 min
 Lab File: BF104811.D
 Acq: 26 Apr 2018 2:32

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	21.1	17.6	26.4	
139	13.2	10.9	16.3	

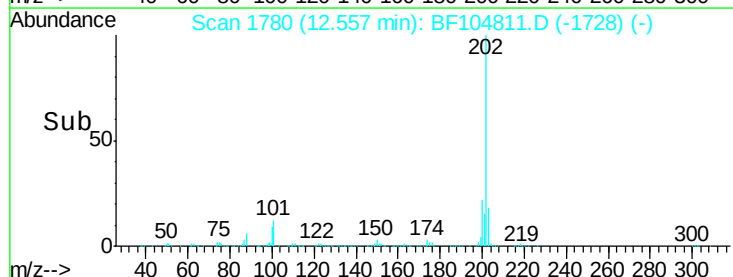
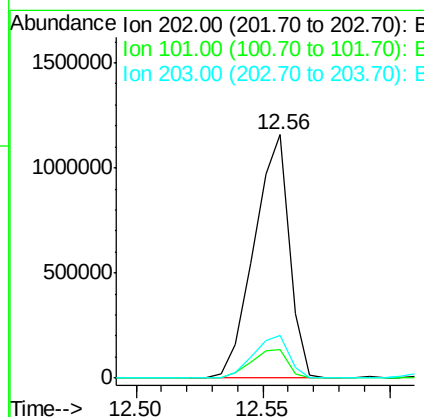
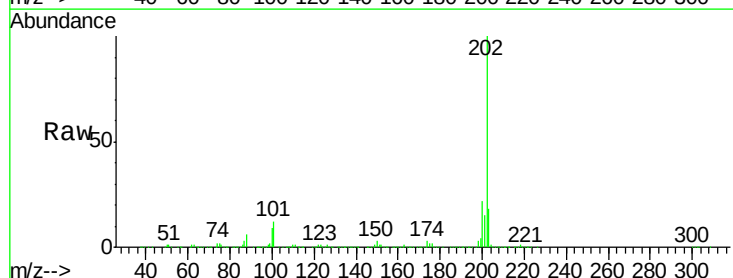
Manual Integrations
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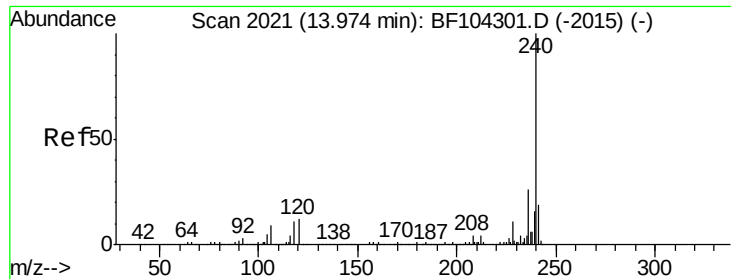
Sohil
 4/26/2018 6:14:57 PM



#74
 Fluoranthene
 Concen: 76.044 ng
 RT: 12.56 min Scan# 1780
 Delta R.T. 0.01 min
 Lab File: BF104811.D
 Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	11.5	0.0	34.1	
203	17.6	0.0	38.1	





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

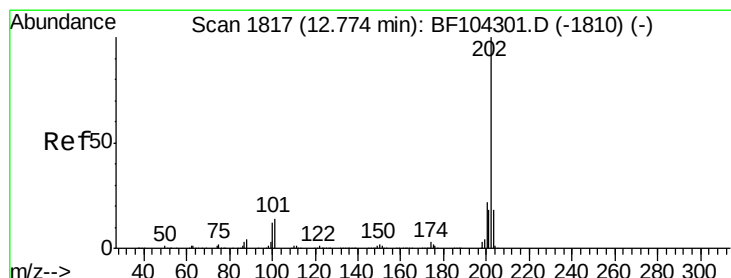
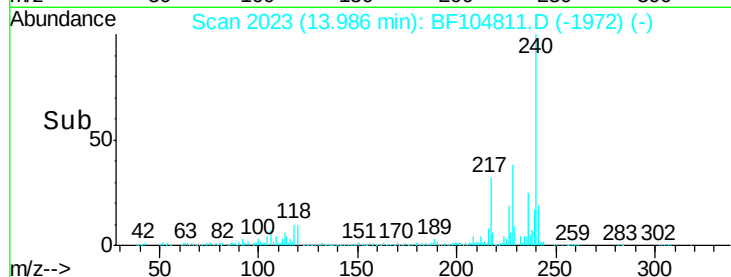
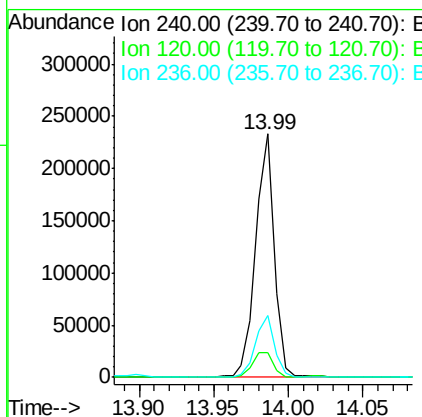
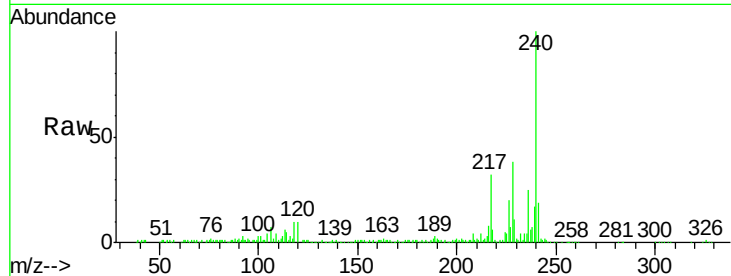
ClientSampleId :

A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	10.4	9.5	14.3	
236	25.3	20.7	31.1	

Manual Integrations
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#77

Pyrene

Concen: 65.479 ng

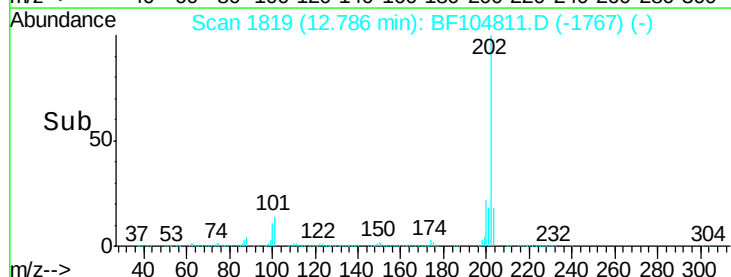
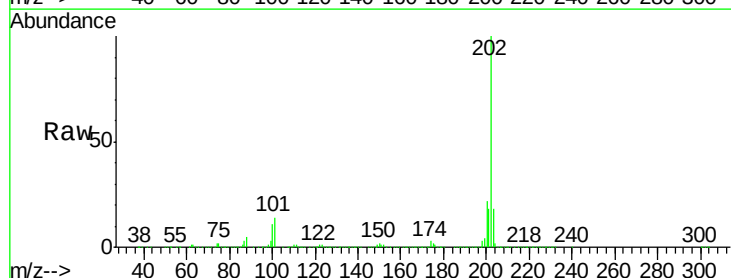
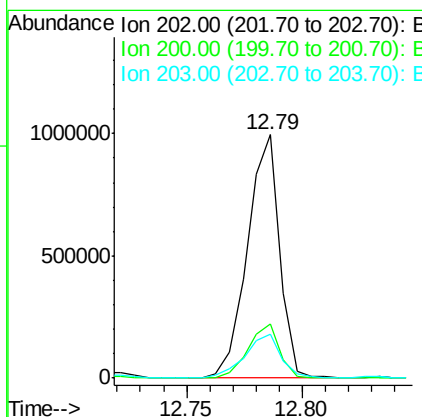
RT: 12.79 min Scan# 1819

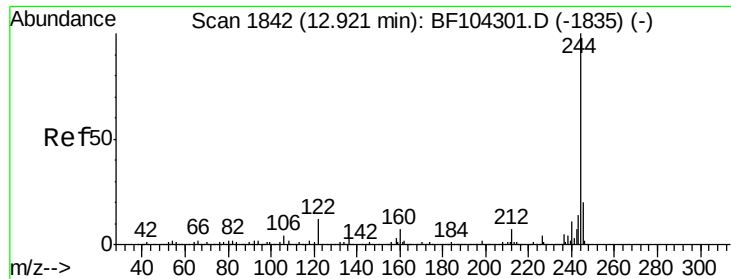
Delta R.T. 0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	22.1	17.4	26.2	
203	18.2	14.3	21.5	





#78

Terphenyl-d14

Concen: 5.785 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

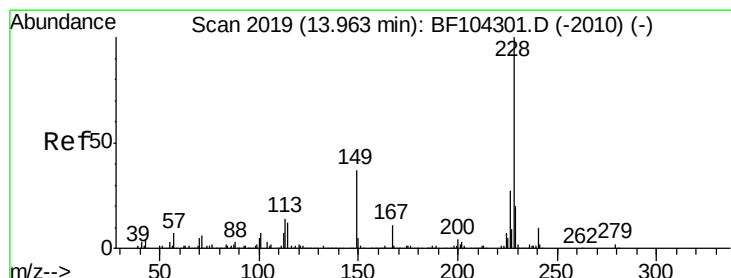
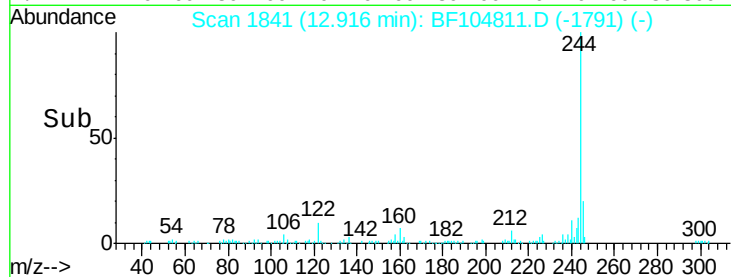
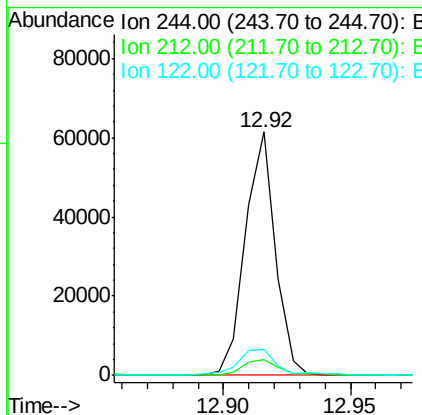
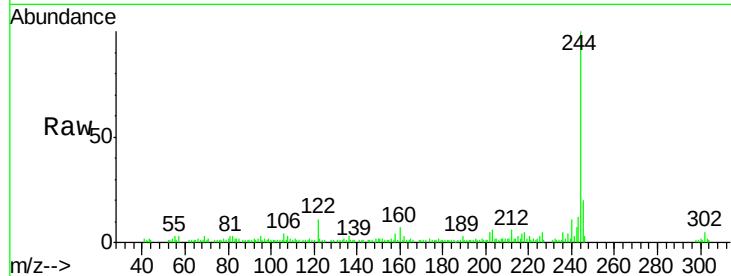
ClientSampleId :

A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	10.8	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 48.573 ng m

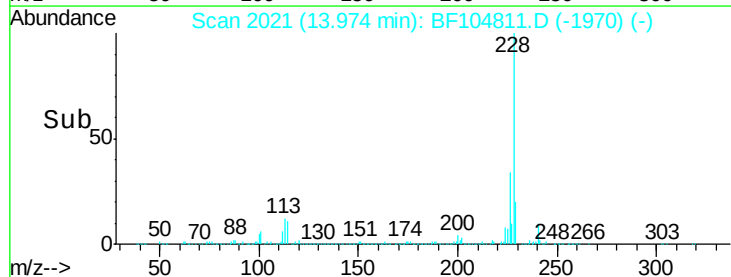
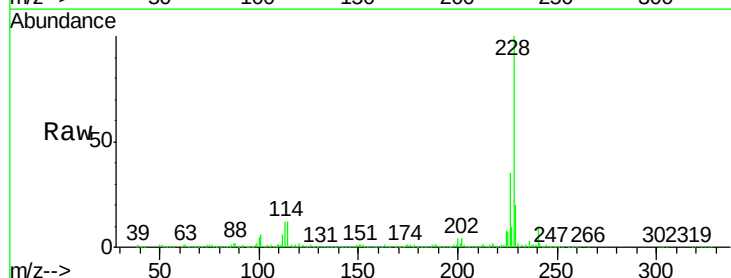
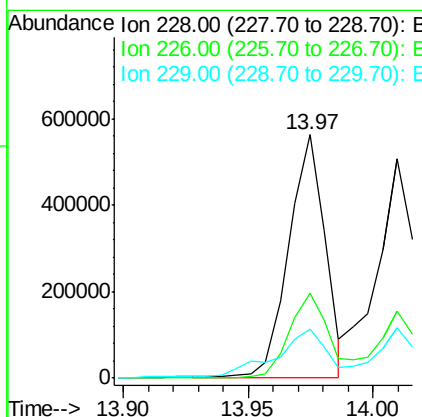
RT: 13.97 min Scan# 2021

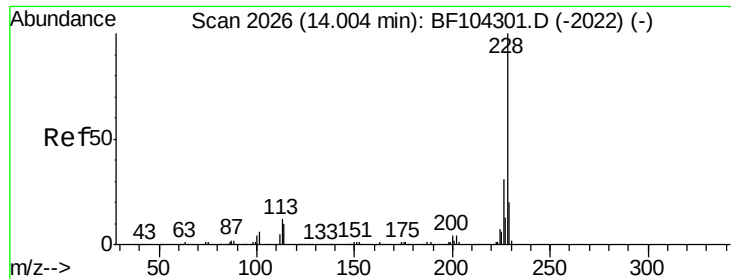
Delta R.T. 0.00 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.6	22.6	33.8
229	20.3	15.8	23.6





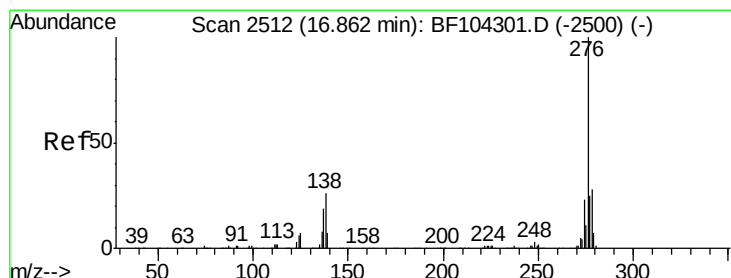
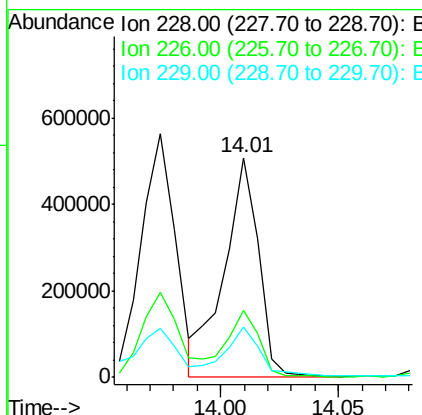
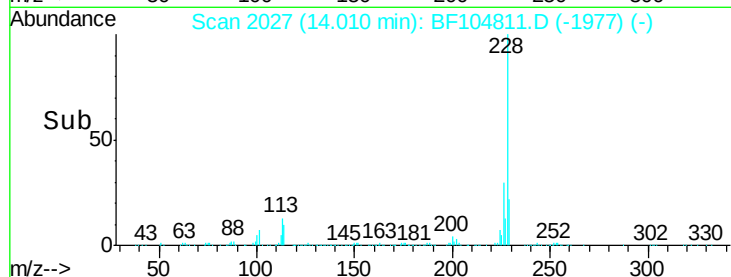
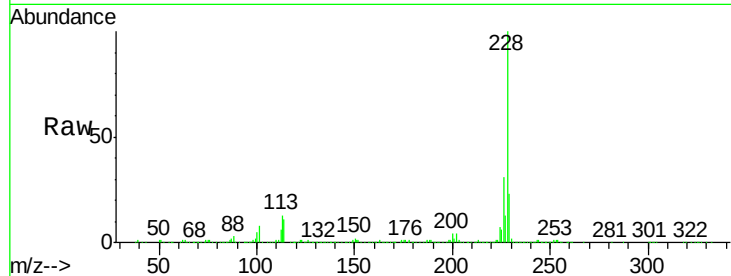
#82
Chrysene
Concen: 42.163 ng m
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	25.0	37.6
229	22.7	16.2	24.4

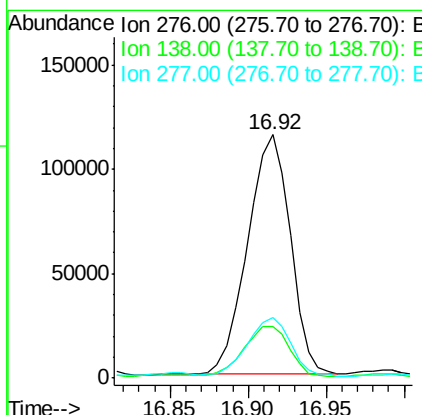
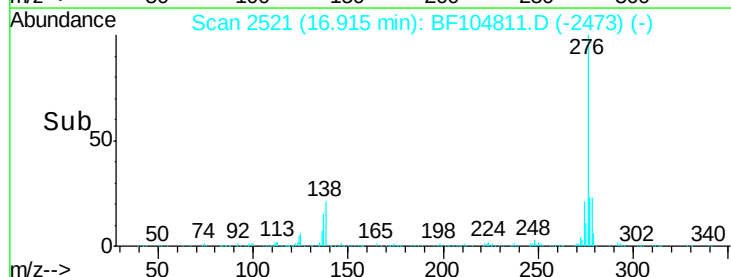
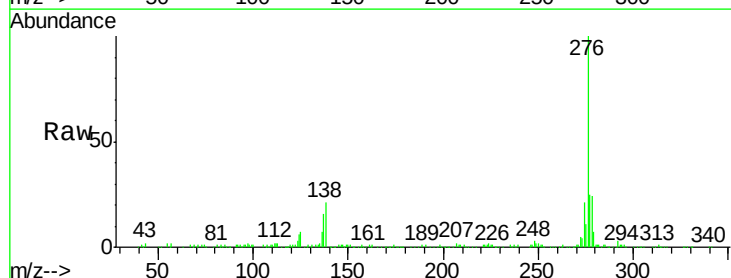
Manual Integrations
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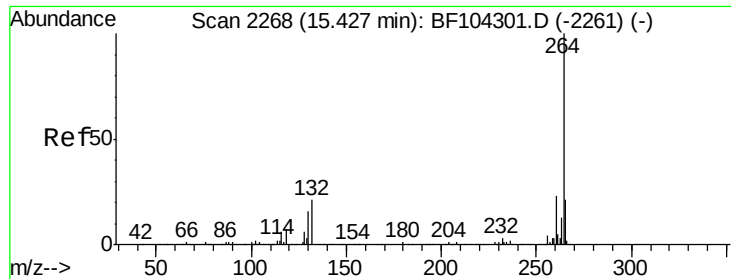
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 20.932 ng m
RT: 16.92 min Scan# 2521
Delta R.T. -0.02 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
276	100		
138	0.9	25.0	37.6#
277	1.0	20.1	30.1#





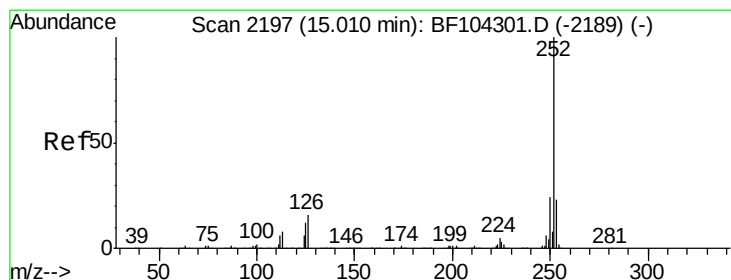
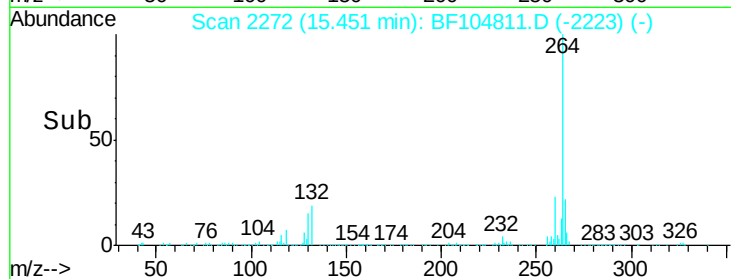
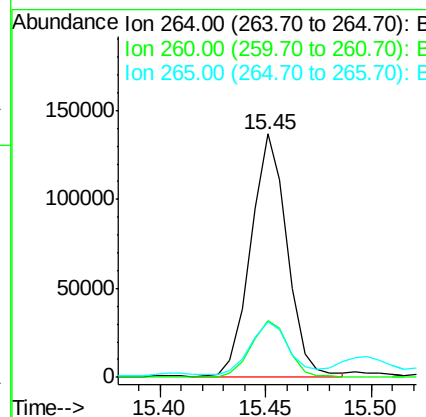
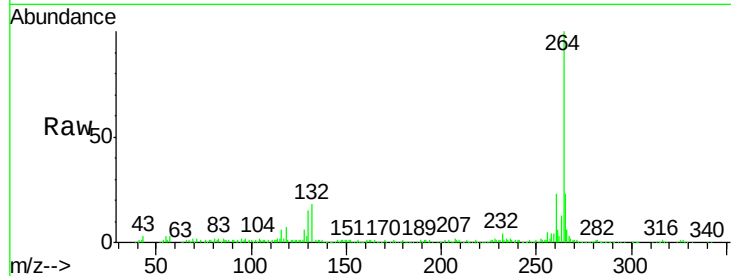
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.6	17.5	26.3

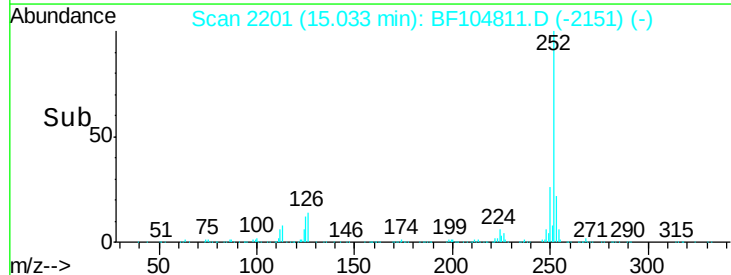
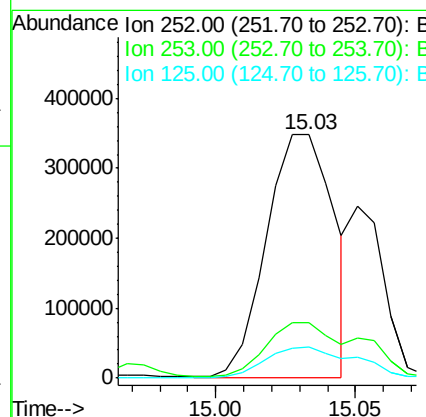
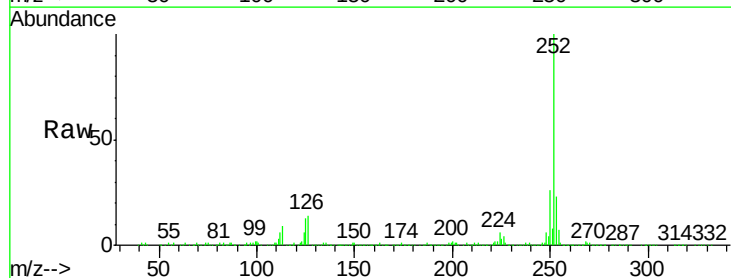
Manual Integrations
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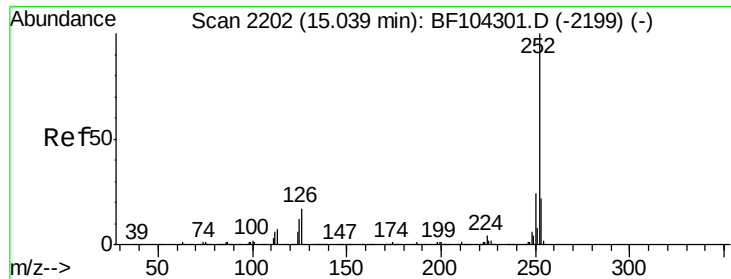
Sohil
4/26/2018 6:14:57 PM



#87
Benzo(b)fluoranthene
Concen: 57.227 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.6
125	12.8	9.0	13.6





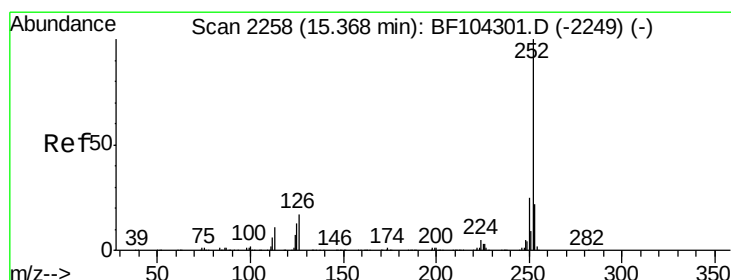
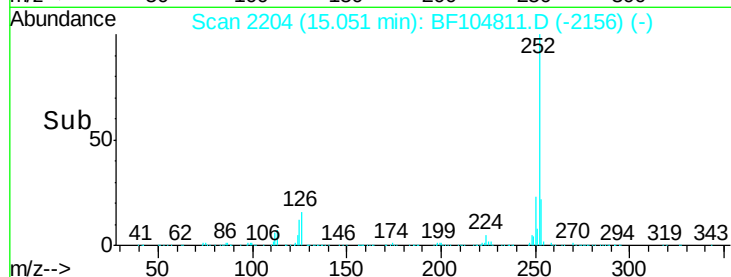
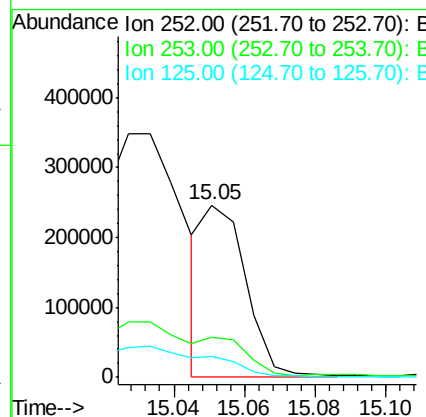
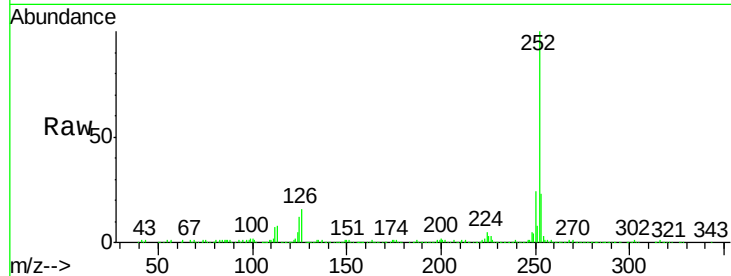
#88
Benzo(k)fluoranthene
Concen: 21.411 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.02 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Instrument :
BNA_F
ClientSampleId :
A2-SB02-BOT-W-8.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	12.1	10.2	15.2

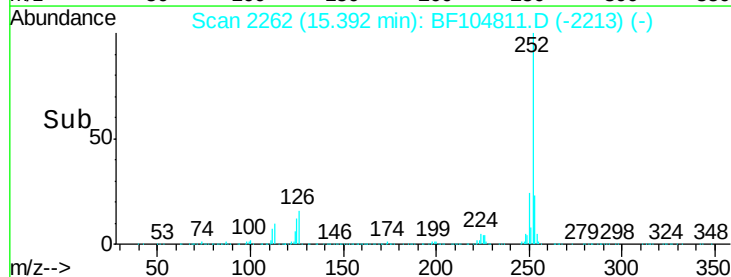
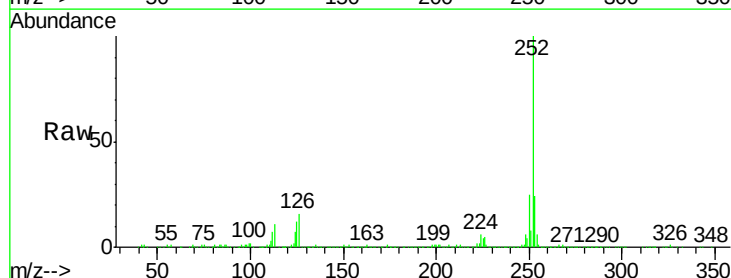
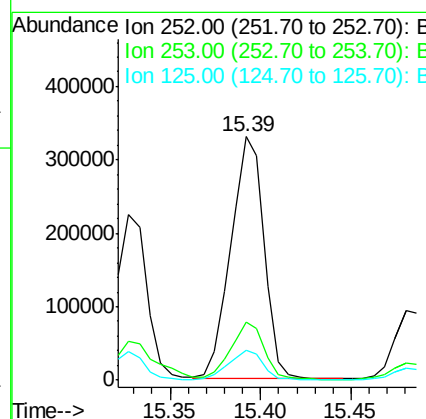
Manual Integrations
APPROVED

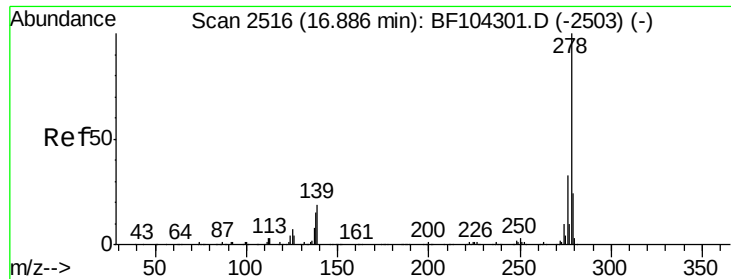
Sohil
4/26/2018 6:14:57 PM



#89
Benzo(a)pyrene
Concen: 45.924 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104811.D
Acq: 26 Apr 2018 2:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.1	25.7
125	12.4	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 8.567 ng/mL

RT: 16.92 min Scan# 2522

Delta R.T. -0.03 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Instrument :

BNA_F

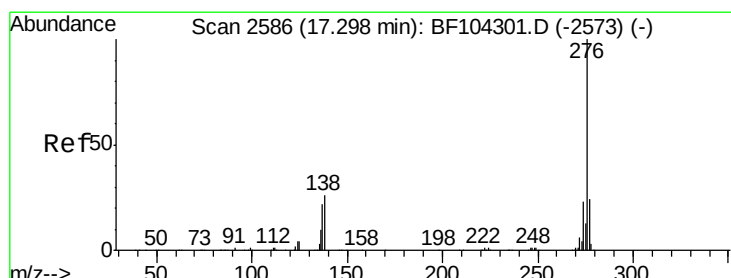
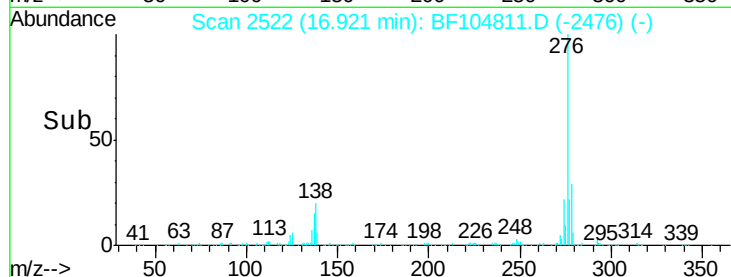
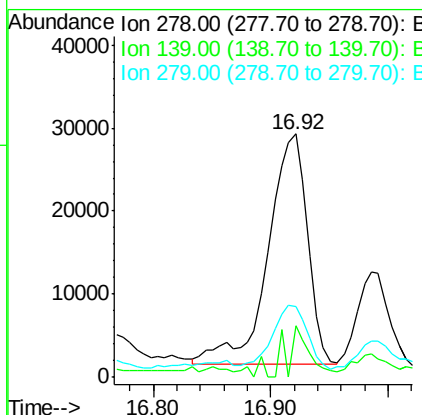
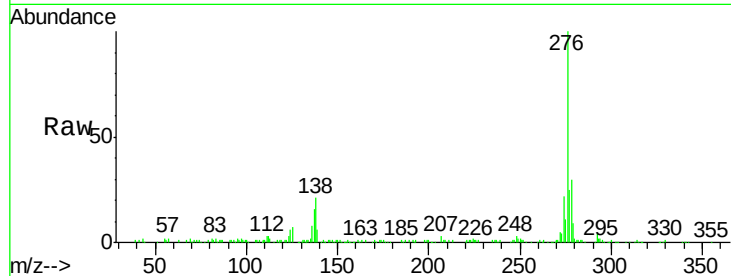
ClientSampleId :

A2-SB02-BOT-W-8.5

Tot Ion:	278	Resp:	64386
Ion Ratio	Lower	Upper	
278	100		
139	21.2	15.9	23.9
279	29.3	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/26/2018 6:14:57 PM



#91

Benzo(g,h,i)perylene

Concen: 27.490 ng/mL

RT: 17.36 min Scan# 2597

Delta R.T. -0.02 min

Lab File: BF104811.D

Acq: 26 Apr 2018 2:32

Tgt Ion:	276	Resp:	200150
Ion Ratio	Lower	Upper	
276	100		
277	23.7	17.9	26.9
138	22.9	21.8	32.8

