

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
 Data File : BF104813.D
 Acq On : 26 Apr 2018 3:26
 Operator : JU/SJ
 Sample : J2497-10 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-S-3.5

Manual Integrations
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 4/26/2018 6:15:01 PM

Quant Time: Apr 26 13:43:28 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	98938	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	398140	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	154948	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	220869	20.00	ng	0.00
75) Chrysene-d12	13.98	240	209004	20.00	ng	0.00
86) Perylene-d12	15.45	264	157138	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	12365	1.91	ng	0.00
7) Phenol-d6	6.44	99	15340m	1.93	ng	0.00
23) Nitrobenzene-d5	7.37	82	8366	1.37	ng	0.00
41) 2,4,6-Tribromophenol	10.63	330	2272	1.41	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	19284	1.97	ng	0.00
78) Terphenyl-d14	12.92	244	14190	1.55	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.10	128	192664	9.718	ng	98
37) 2-Methylnaphthalene	8.80	142	43068	3.358	ng	96
48) Acenaphthylene	9.70	152	212052	13.145	ng	100
51) Acenaphthene	9.87	154	21011	2.135	ng	99
54) Dibenzofuran	10.05	168	38818	2.830	ng	99
57) Fluorene	10.39	166	69061	6.917	ng	99
70) Phenanthrene	11.36	178	378870	30.802	ng	98
71) Anthracene	11.40	178	150039	12.000	ng	99
74) Fluoranthene	12.55	202	608378	47.340	ng	97
77) Pyrene	12.78	202	651654	42.064	ng	99
80) Benzo(a)anthracene	13.97	228	404614m	32.405	ng	
82) Chrysene	14.01	228	354141	27.613	ng	98
85) Indeno(1,2,3-cd)pyrene	16.91	276	152257m	13.975	ng	
87) Benzo(b)fluoranthene	15.03	252	450957m	45.438	ng	
88) Benzo(k)fluoranthene	15.05	252	120942m	12.908	ng	
89) Benzo(a)pyrene	15.39	252	311285	35.055	ng	97
90) Dibenzo(a,h)anthracene	16.92	278	44095m	6.046	ng	
91) Benzo(g,h,i)perylene	17.36	276	149698	21.186	ng	94

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

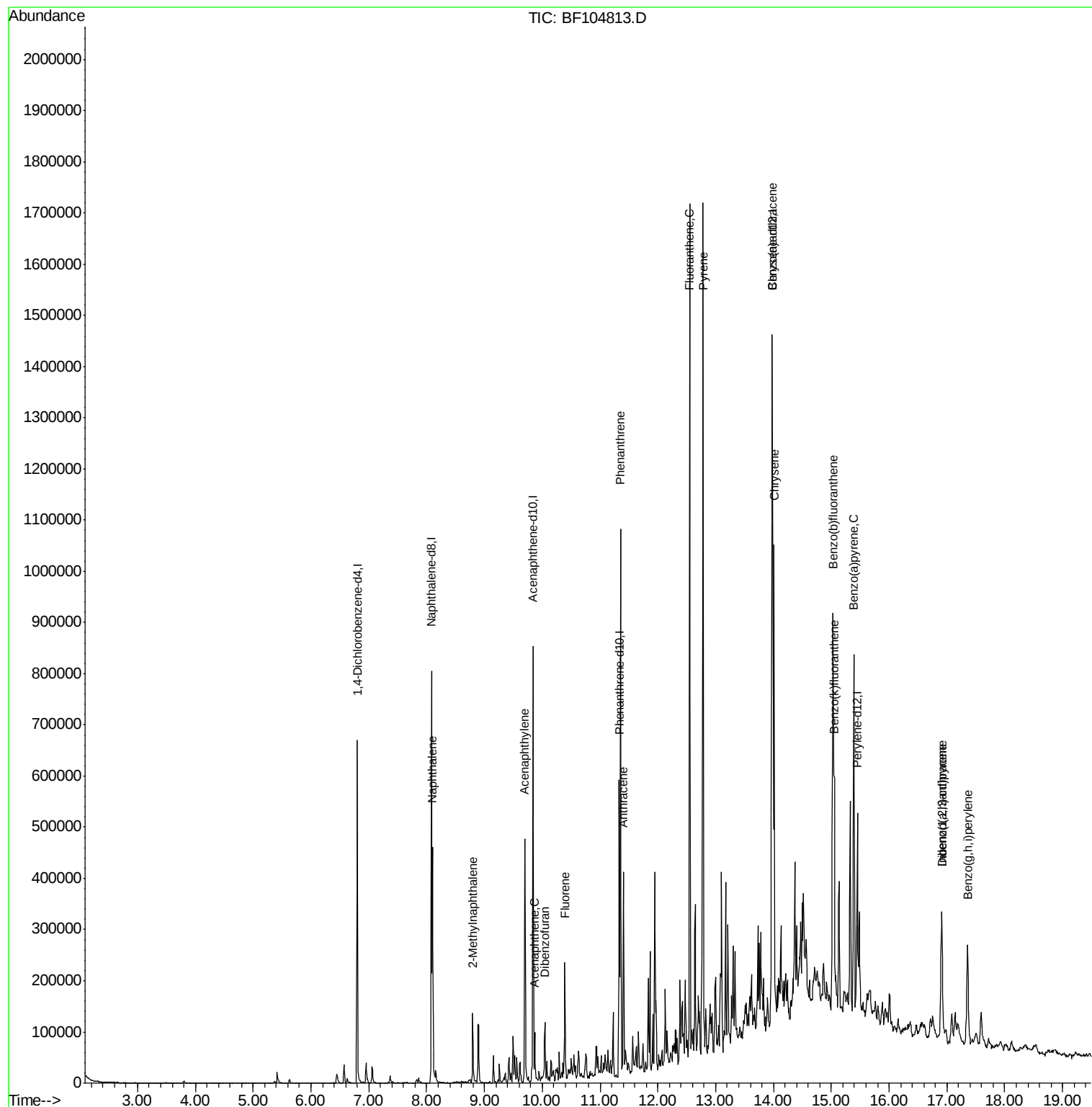
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\
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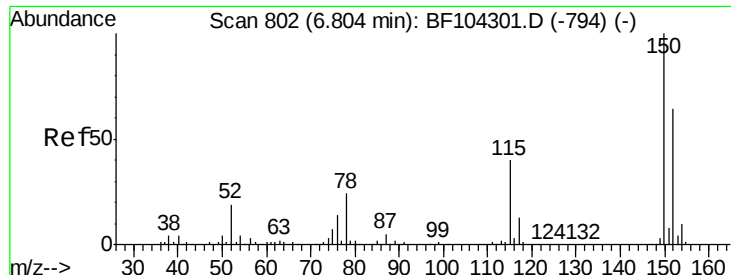
Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Manual Integrations
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#1

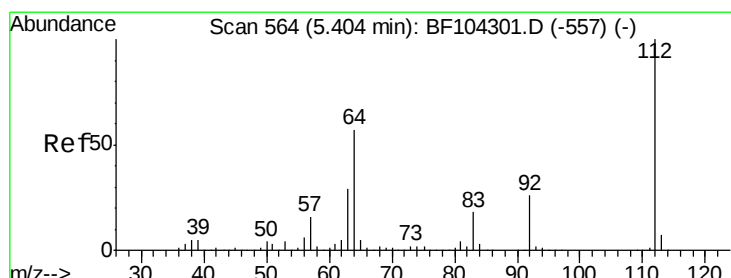
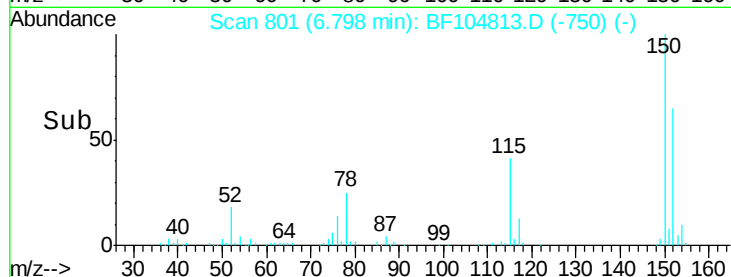
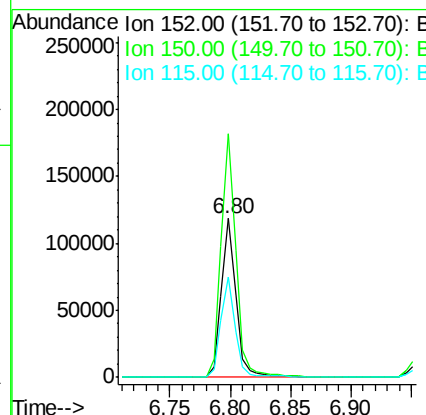
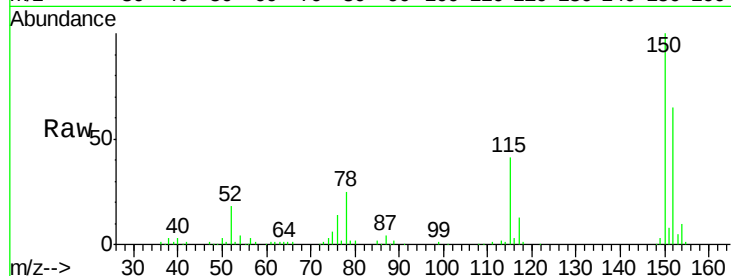
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.6	186.8
115	63.4	50.1	75.1

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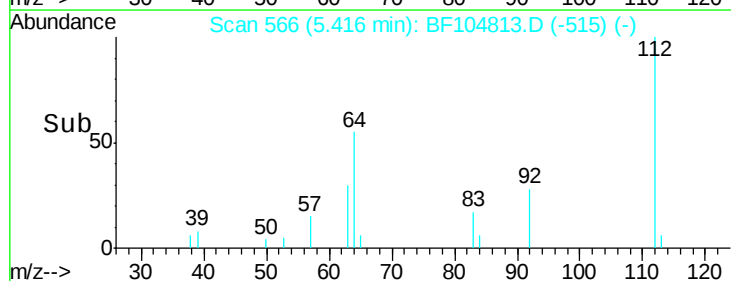
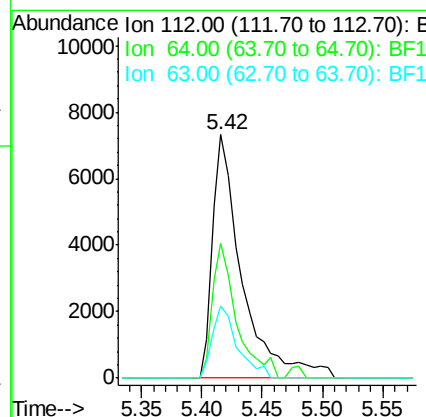
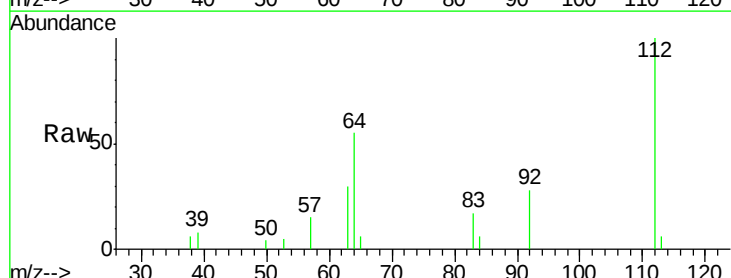
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#5

2-Fluorophenol
Concen: 1.911 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.2	47.9	71.9
63	29.5	23.7	35.5





#7

Phenol-d6

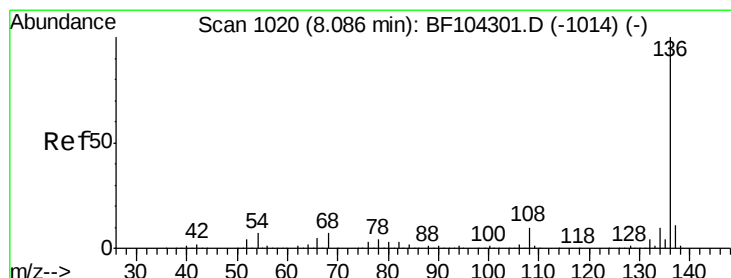
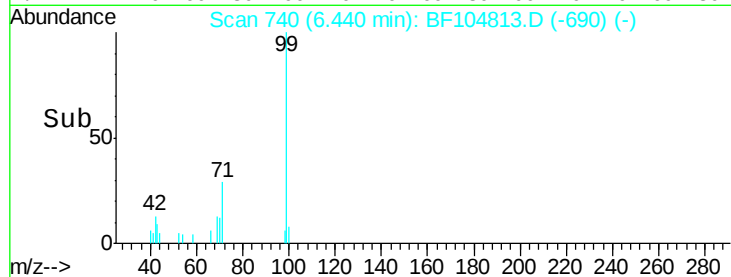
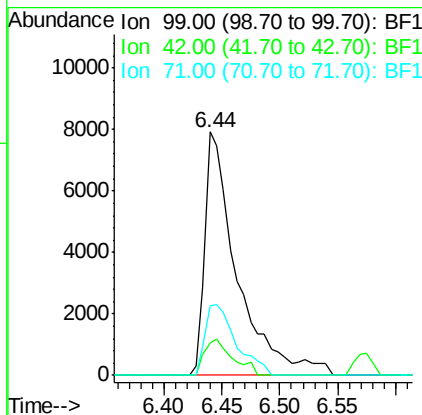
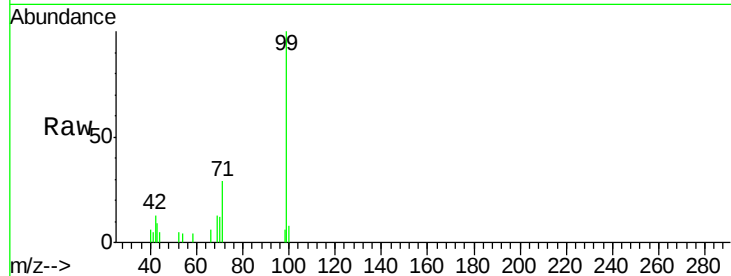
Concen: 1.930 ng/mL
 RT: 6.44 min Scan# 740
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-S-3.5

Tot Ion	Ion	Ratio	Lower	Upper
99	100			
42	13.1	14.5	21.7#	
71	28.7	25.4	38.0	

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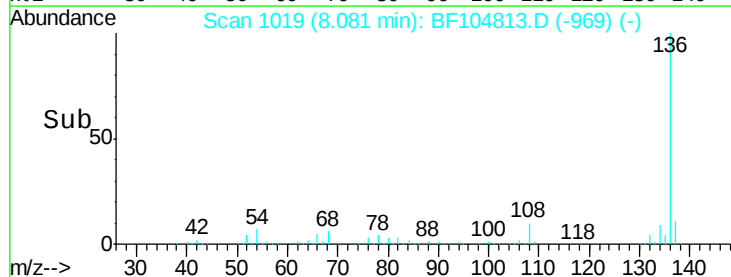
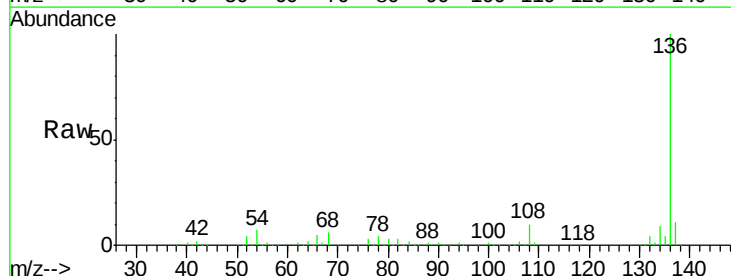
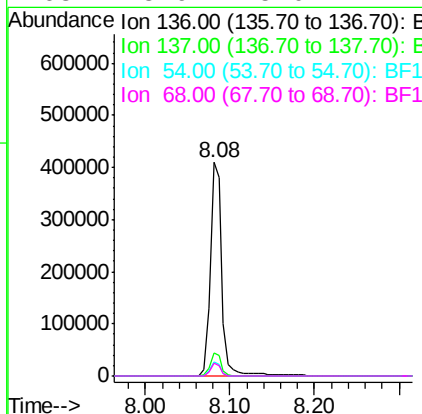


#21

Naphthalene-d8

Concen: 20.000 ng
 RT: 8.08 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion	Ion	Ratio	Lower	Upper
136	100			
137	11.1	8.9	13.3	
54	6.8	6.6	9.8	
68	5.9	5.0	7.4	





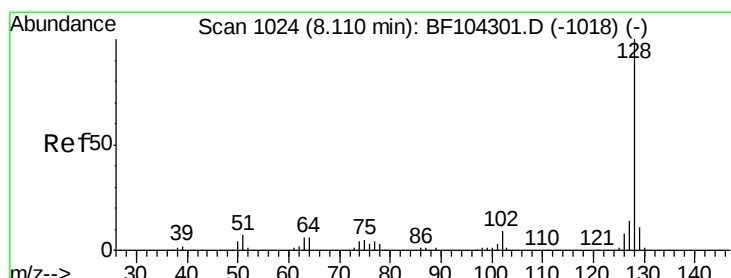
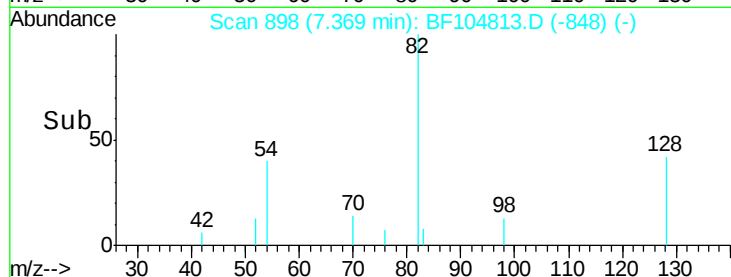
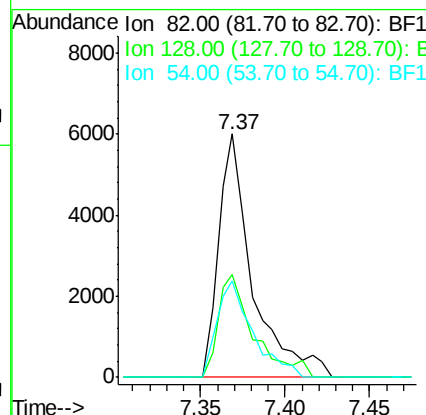
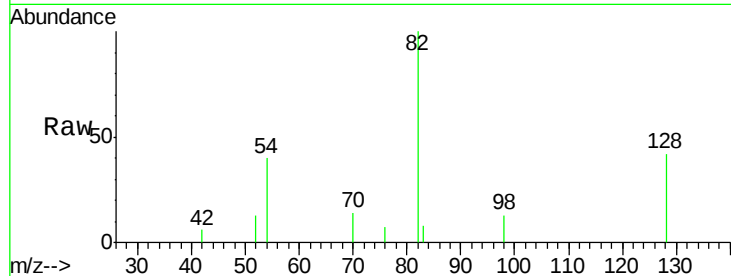
#23
 Nitrobenzene-d5
 Concen: 1.372 ng
 RT: 7.37 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.3	36.1	54.1
54	39.8	41.4	62.2

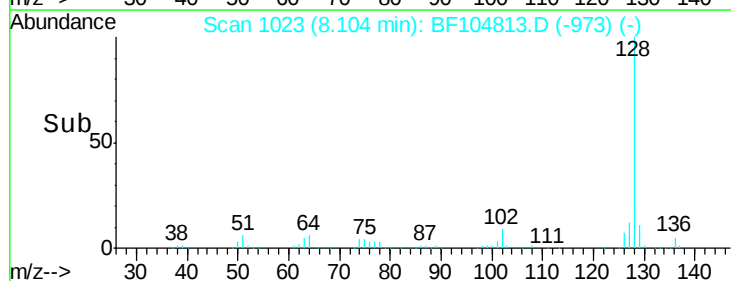
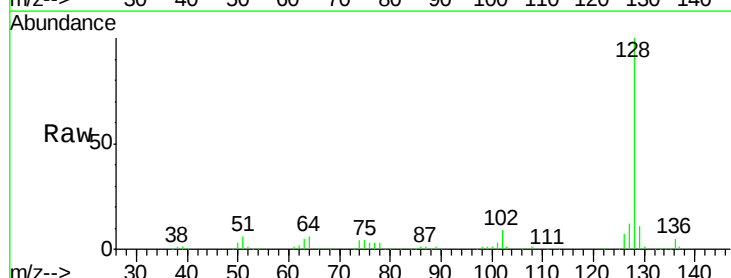
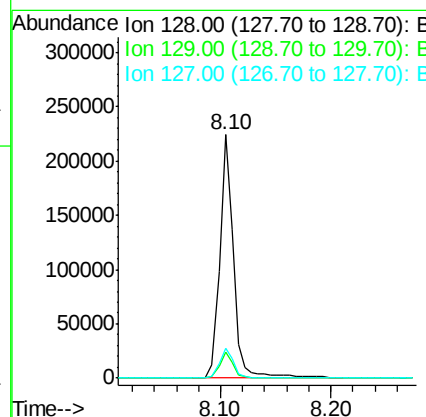
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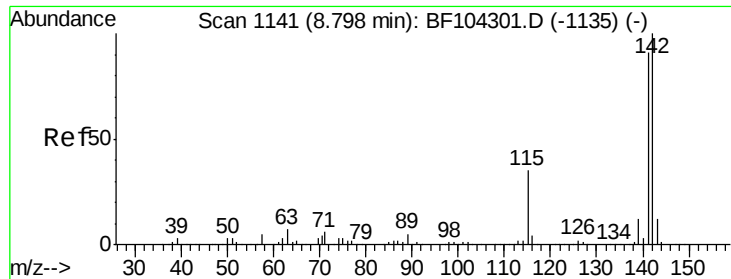
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#31
 Naphthalene
 Concen: 9.718 ng
 RT: 8.10 min Scan# 1023
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	12.4	10.9	16.3





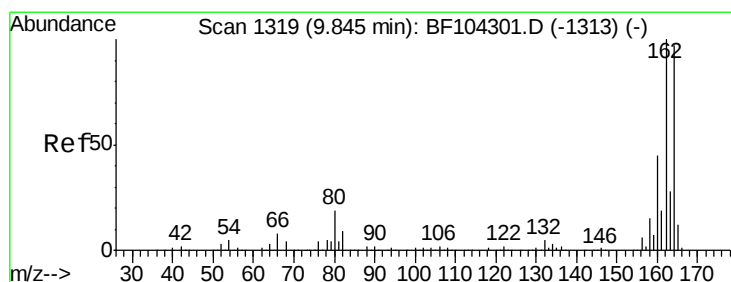
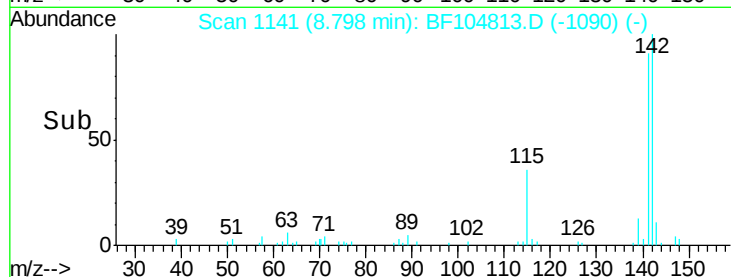
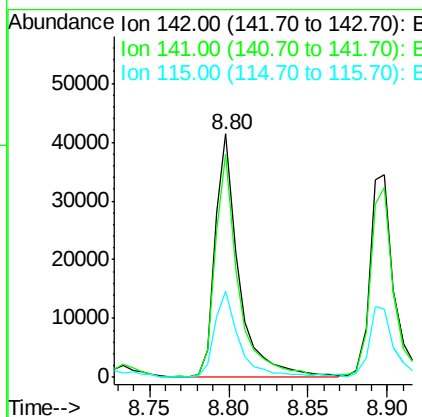
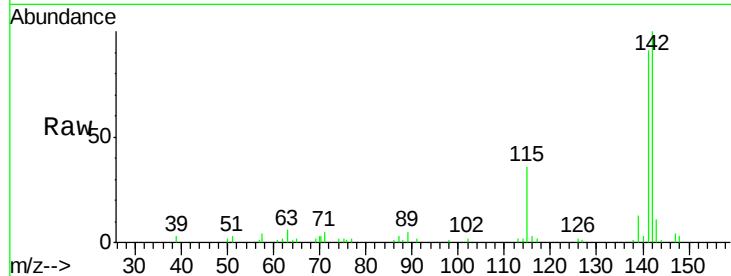
#37
2-Methylnaphthalene
Concen: 3.358 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.5	70.8	106.2
115	35.6	26.1	39.1

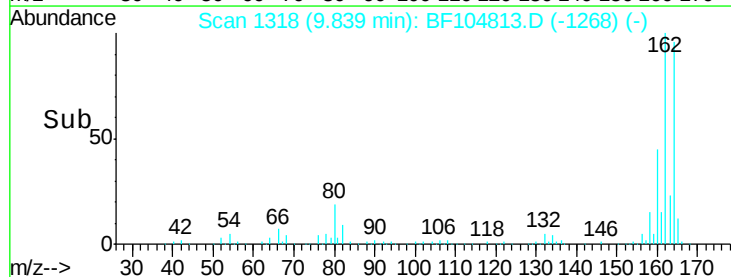
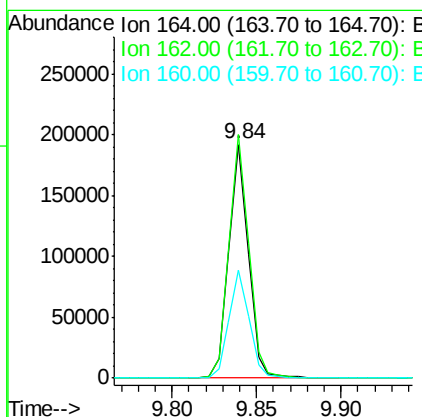
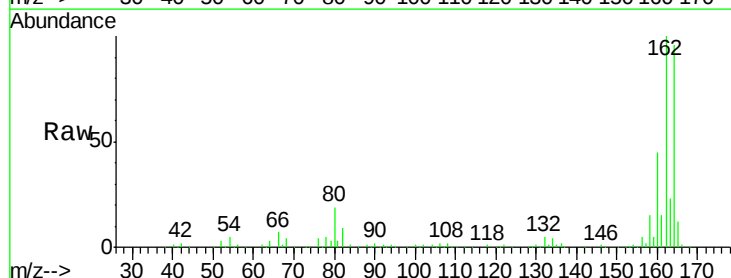
Manual Integrations
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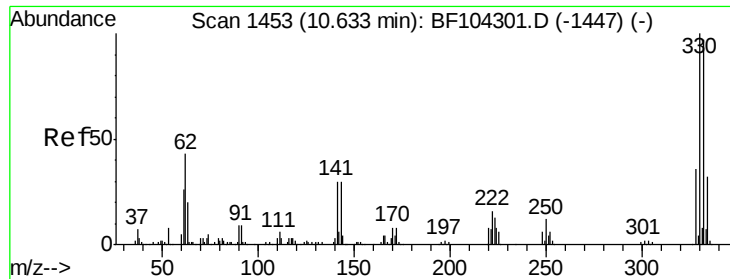
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	86.1	129.1
160	46.3	38.3	57.5





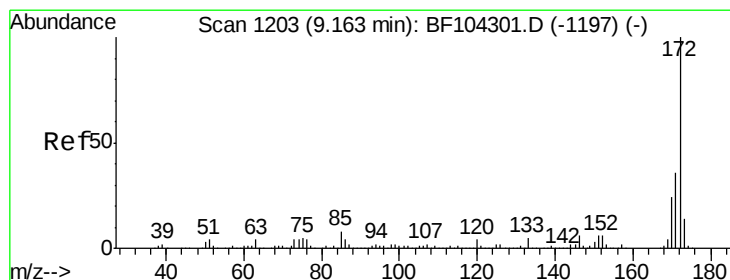
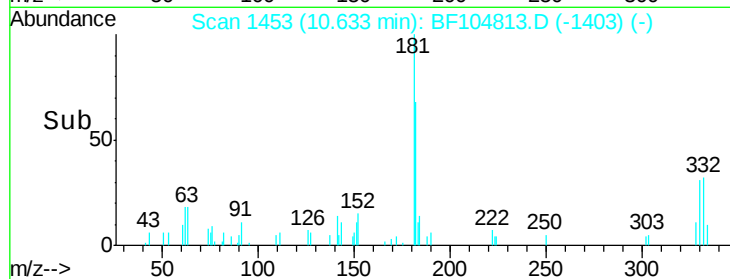
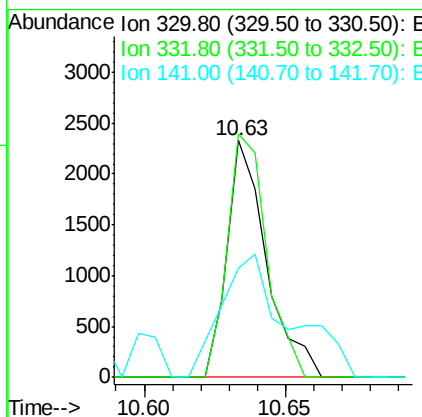
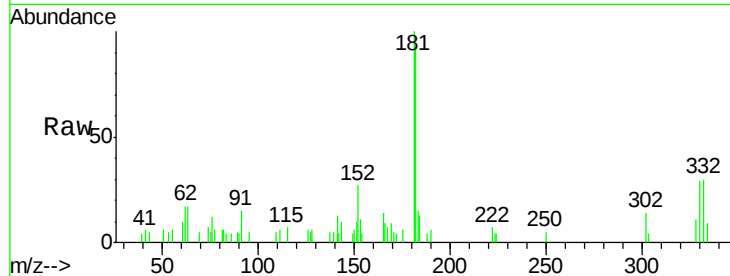
#41
 2,4,6-Tribromophenol
 Concen: 1.414 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.0	115.6
141	89.2	29.9	44.9

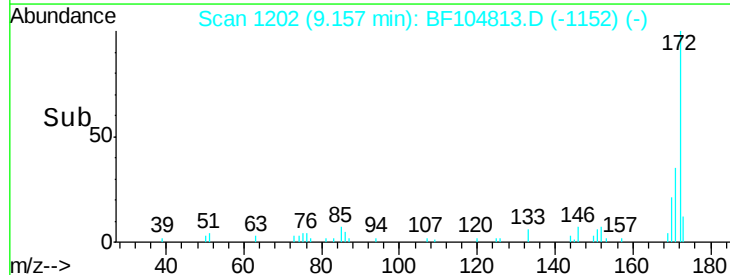
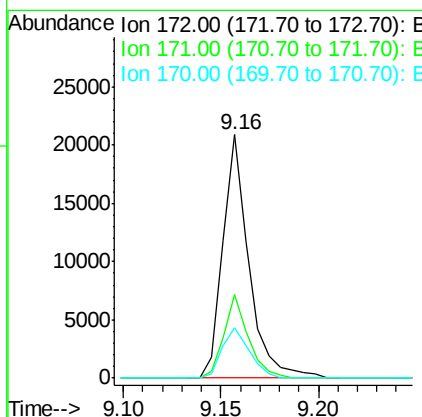
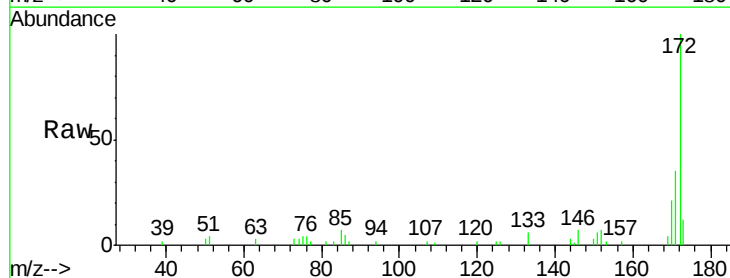
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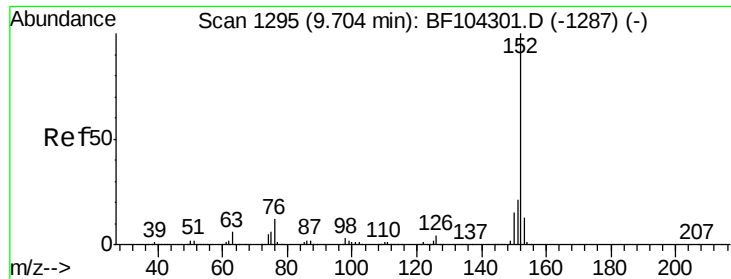
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#44
 2-Fluorobiphenyl
 Concen: 1.966 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.7	44.5
170	20.6	19.6	29.4





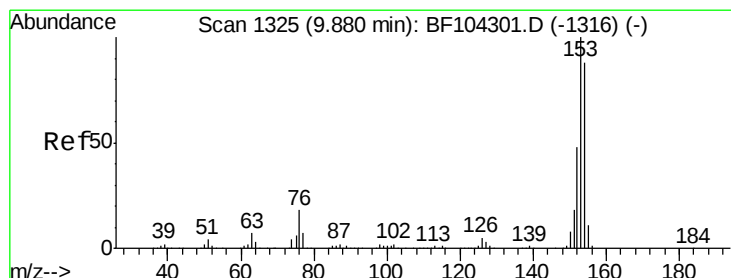
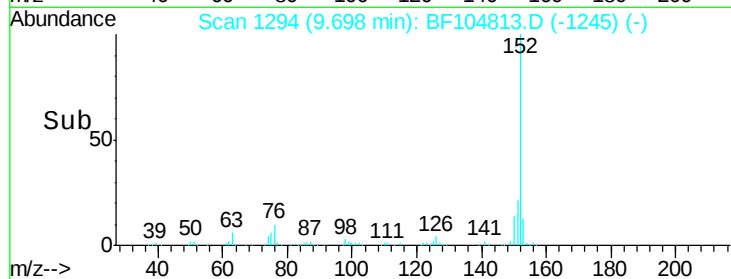
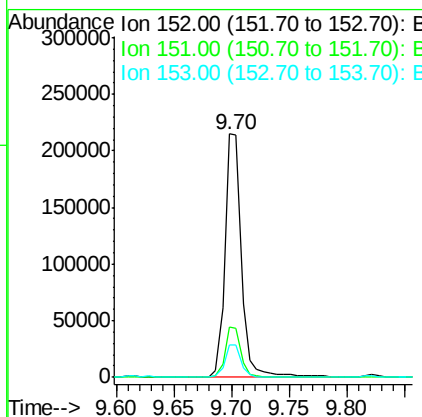
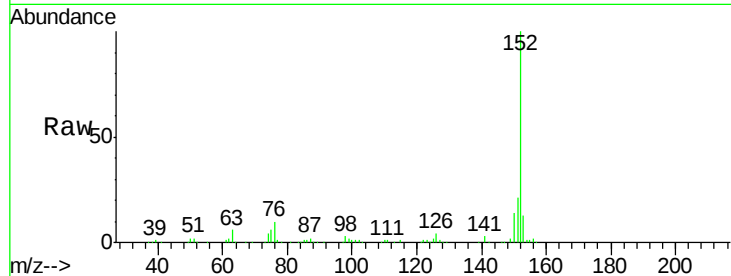
#48
Acenaphthylene
Concen: 13.145 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ratio	Resp	Lower	Upper
152	100	212052		
151	20.7		16.3	24.5
153	13.3		10.7	16.1

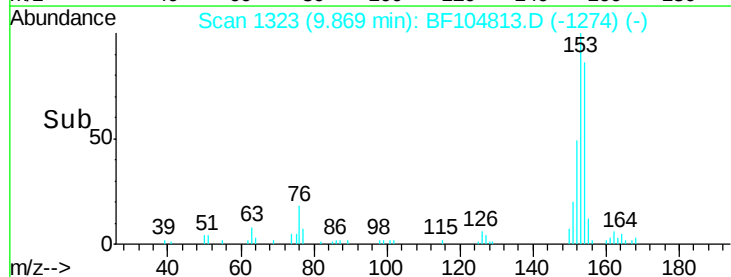
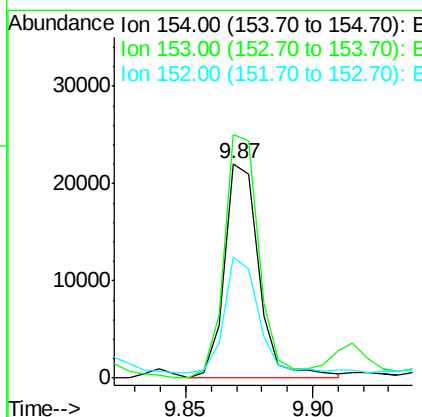
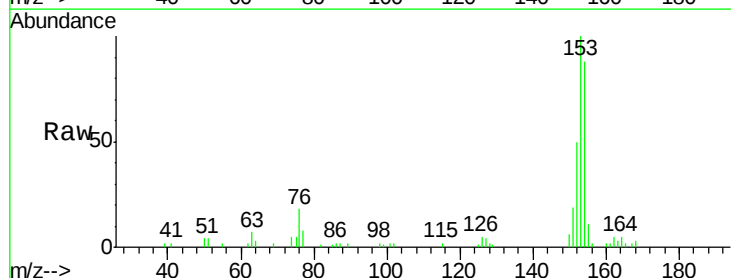
Manual Integrations
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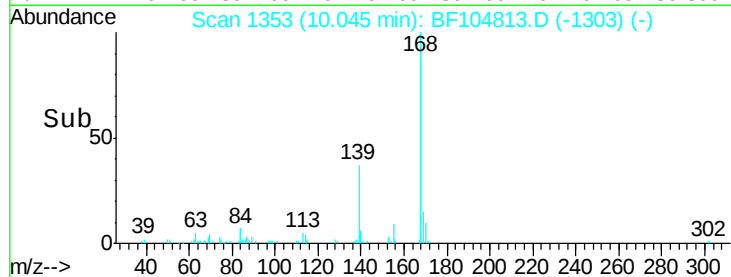
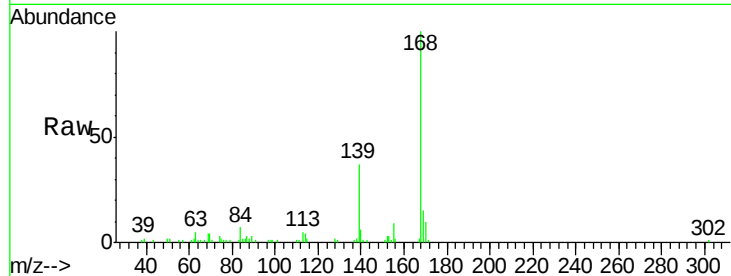
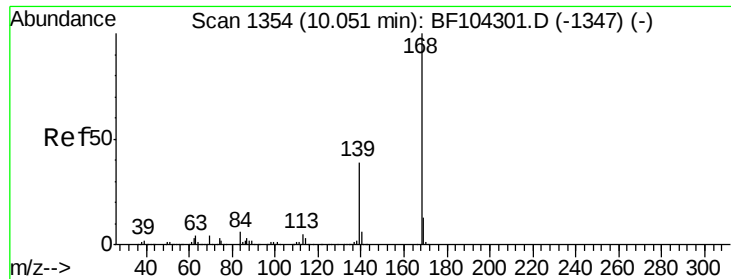
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#51
Acenaphthene
Concen: 2.135 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	21011		
153	113.7		91.2	136.8
152	56.6		43.8	65.8





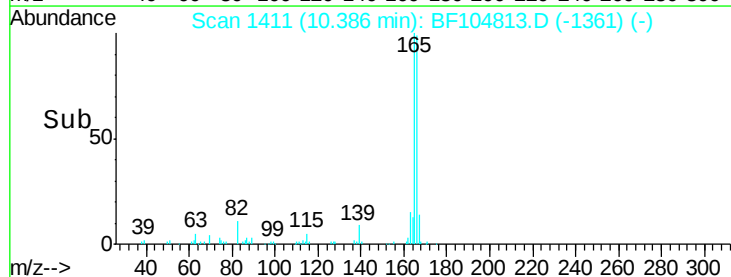
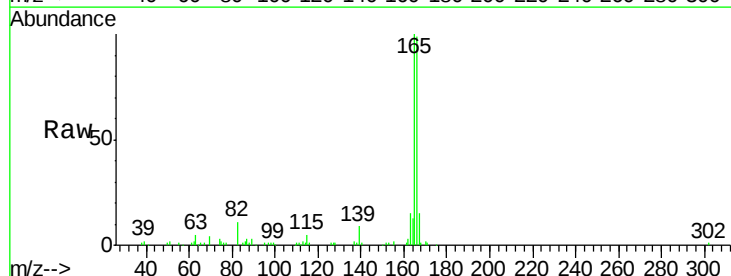
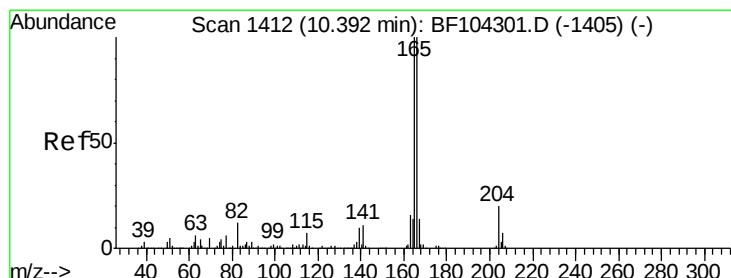
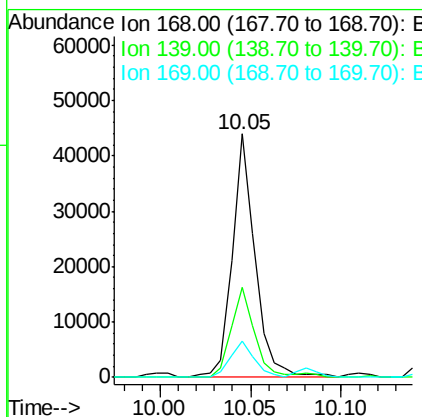
#54
Dibenzofuran
Concen: 2.830 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tot Ion	Ratio	Resp	Lower	Upper
168	100	38818		
139	37.0		30.1	45.1
169	14.7		10.9	16.3

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

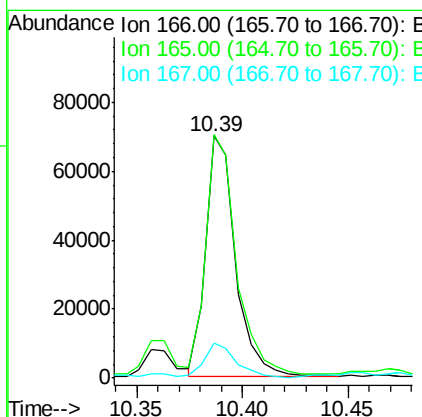
Manual Integrations
APPROVED

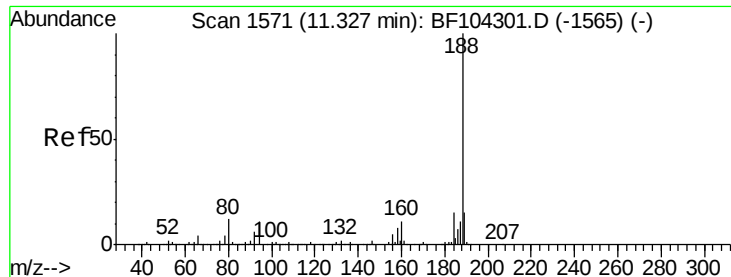
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#57
Fluorene
Concen: 6.917 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	69061		
165	100.7		79.8	119.8
167	14.6		10.6	16.0





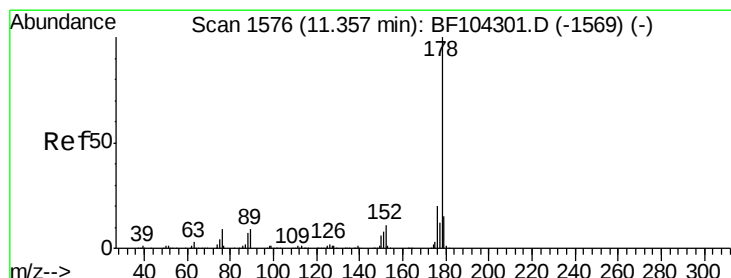
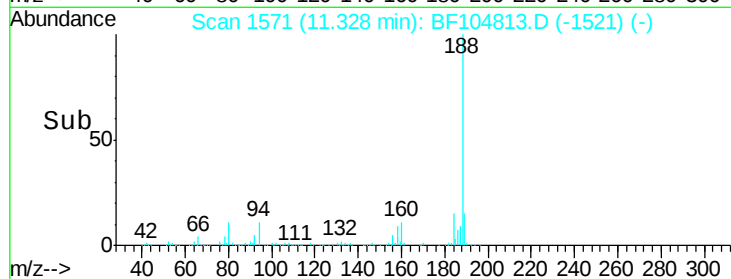
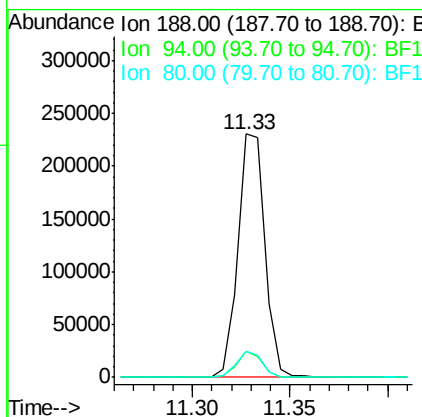
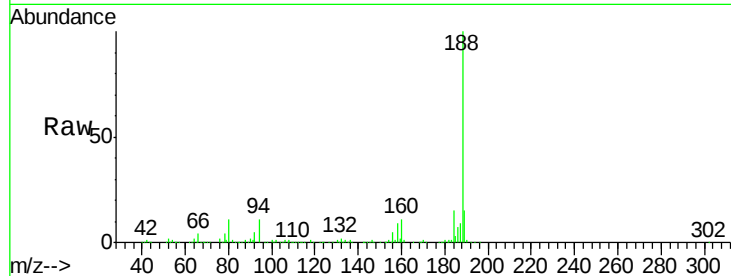
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.6	8.5	12.7
80	10.9	9.2	13.8

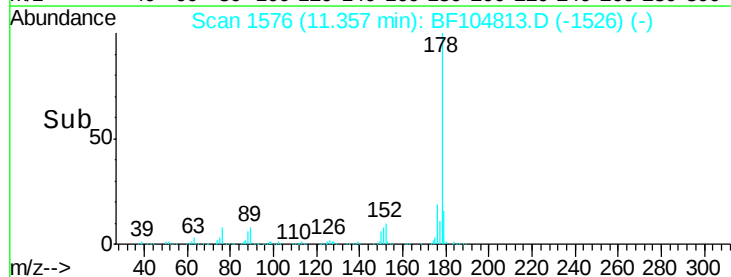
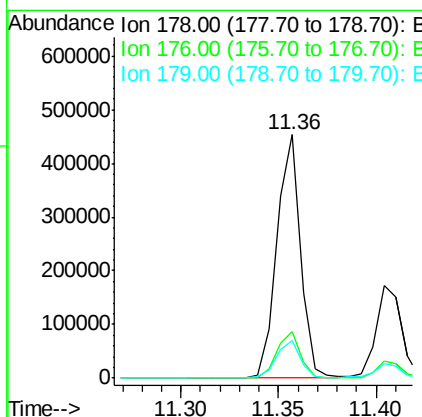
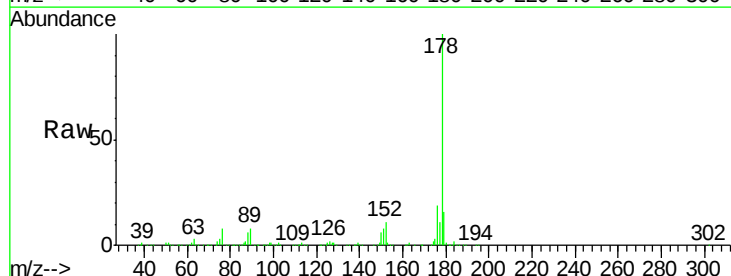
Manual Integrations
APPROVED

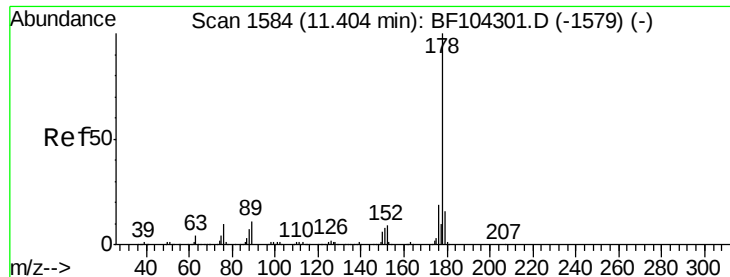
Sohil
4/26/2018 6:15:01 PM



#70
Phenanthrene
Concen: 30.802 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.6	13.0	19.6





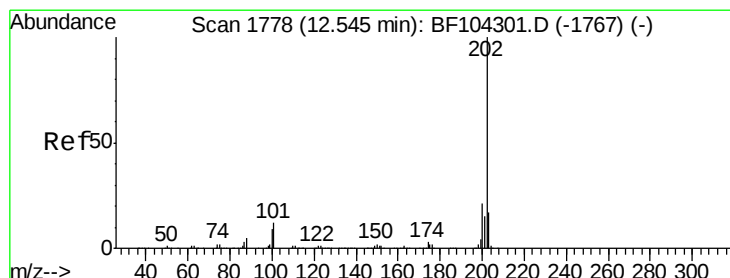
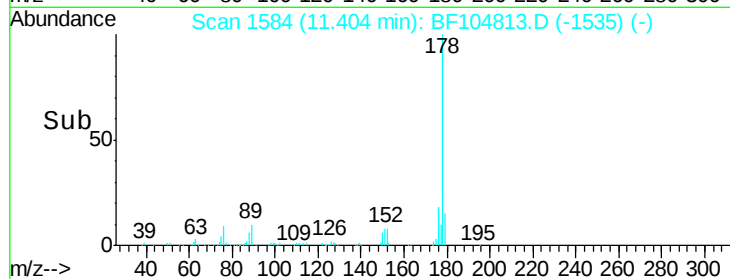
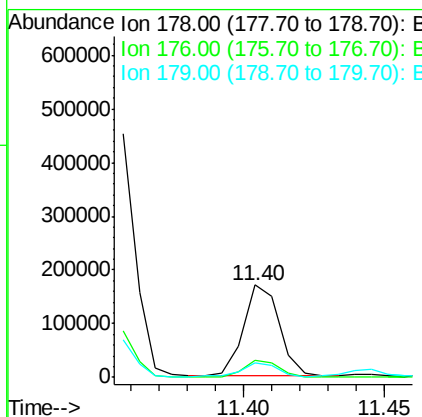
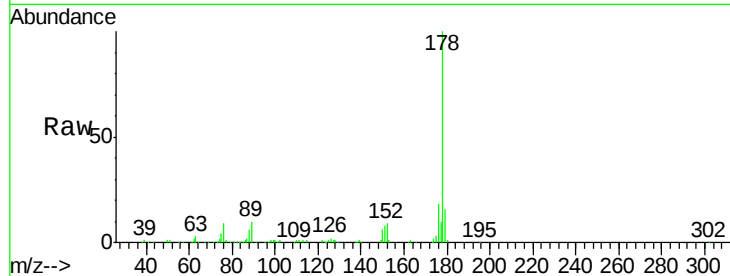
#71
 Anthracene
 Concen: 12.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB02-S-3.5

Tot Ion:178	Resp:	150039
Ion Ratio	Lower	Upper
178	100	
176	18.4	15.4 23.2
179	15.8	12.6 19.0

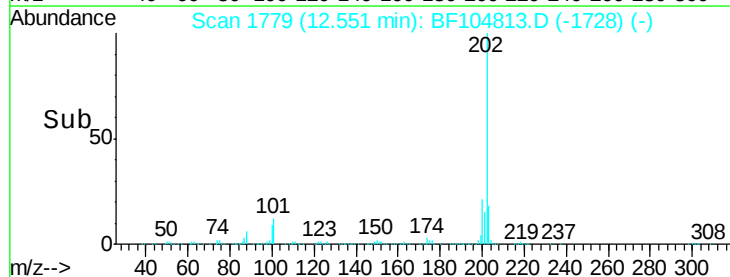
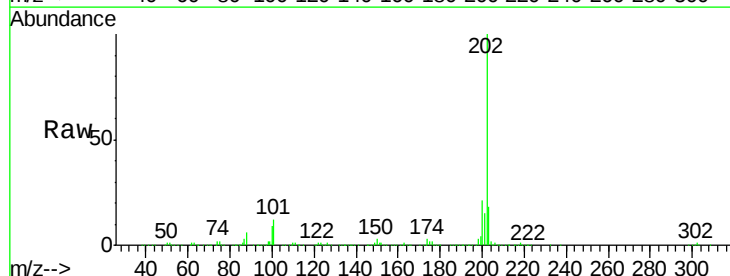
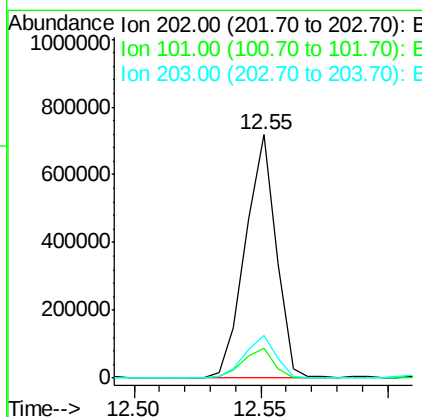
Manual Integrations
 APPROVED

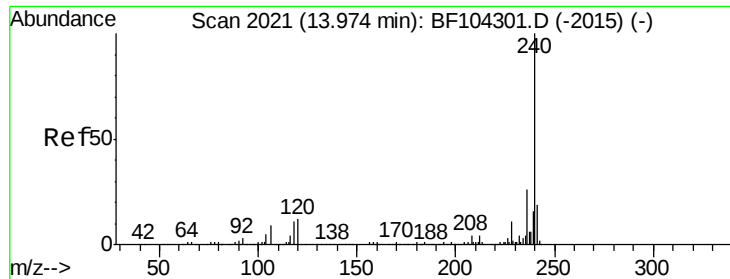
Sohil
 4/26/2018 6:15:01 PM



#74
 Fluoranthene
 Concen: 47.340 ng
 RT: 12.55 min Scan# 1779
 Delta R.T. -0.00 min
 Lab File: BF104813.D
 Acq: 26 Apr 2018 3:26

Tgt Ion:202	Resp:	608378
Ion Ratio	Lower	Upper
202	100	
101	12.1	0.0 34.1
203	17.7	0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

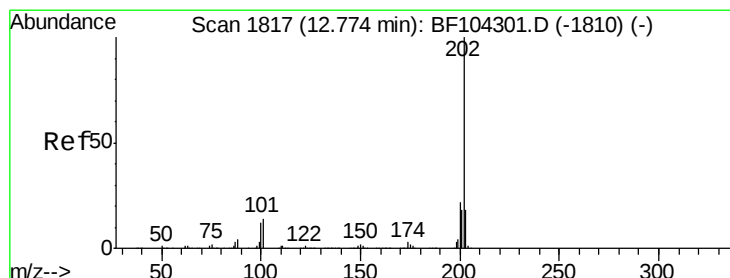
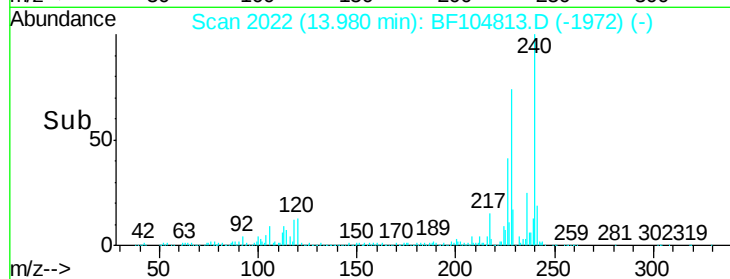
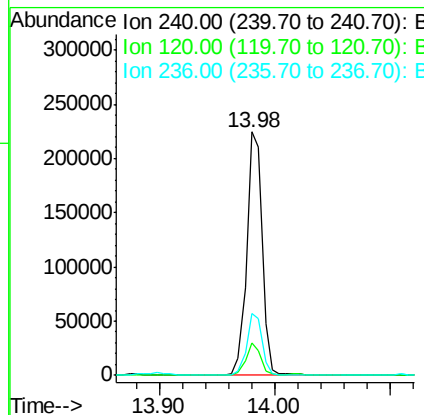
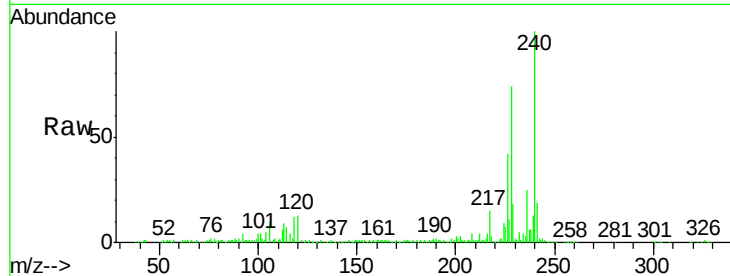
ClientSampleId :

A2-SB02-S-3.5

Tot Ion:	240	Resp:	209004
Ion Ratio	Lower	Upper	
240	100		
120	13.5	9.5	14.3
236	25.5	20.7	31.1

Manual Integrations
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4/26/2018 6:15:01 PM



#77

Pyrene

Concen: 42.064 ng

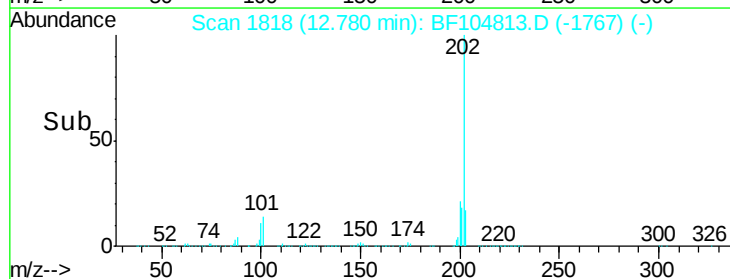
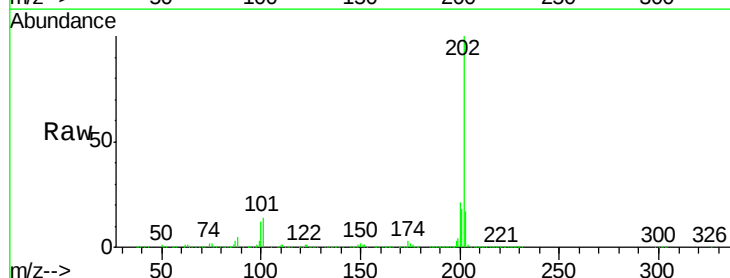
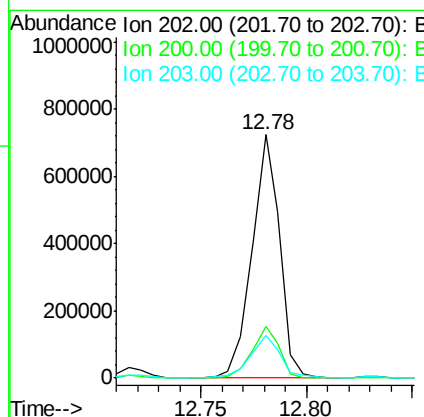
RT: 12.78 min Scan# 1818

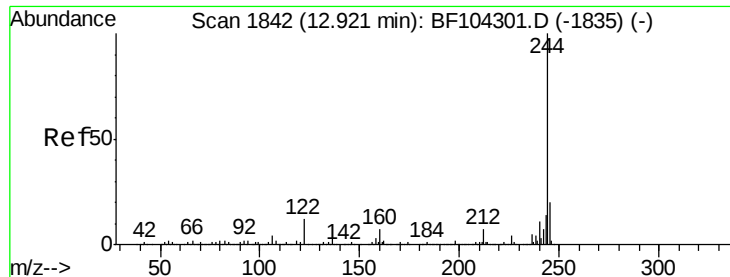
Delta R.T. -0.00 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Tgt Ion:	202	Resp:	651654
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.4	26.2
203	17.3	14.3	21.5





#78

Terphenyl-d14

Concen: 1.548 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF104813.D

Acq: 26 Apr 2018 3:26

Instrument :

BNA_F

ClientSampleId :

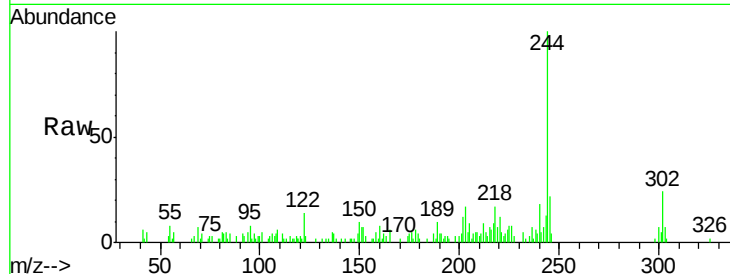
A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.0	5.4	8.0#
122	13.6	11.0	16.4

Manual Integrations
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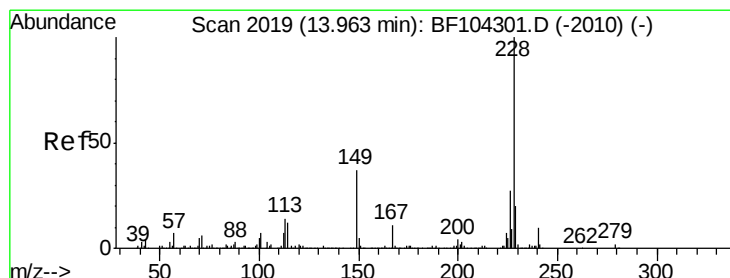
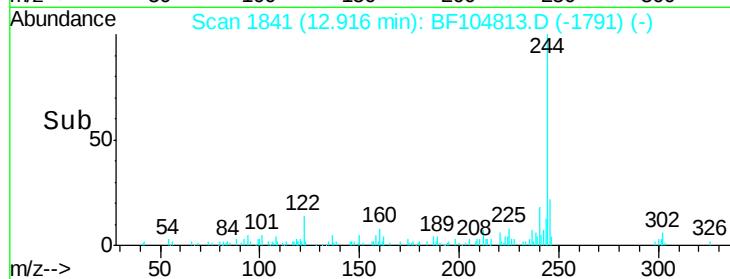
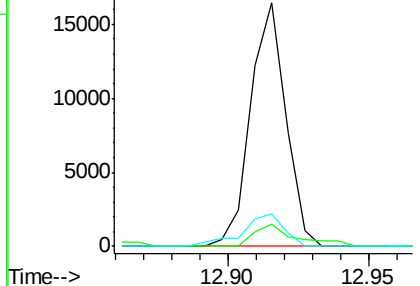
4/26/2018 6:15:01 PM



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: 32.405 ng m

RT: 13.97 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BF104813.D

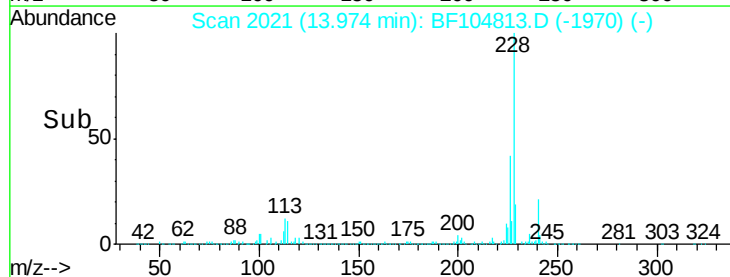
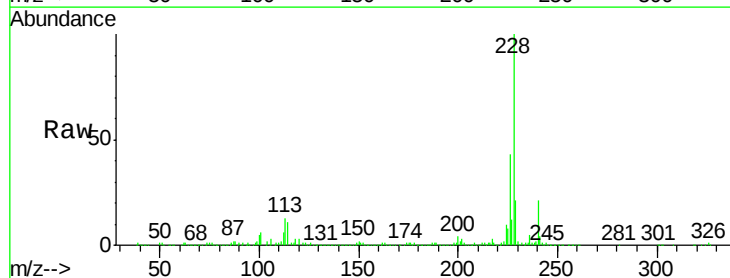
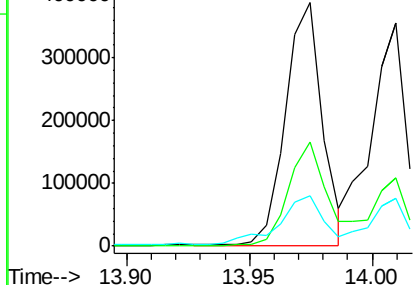
Acq: 26 Apr 2018 3:26

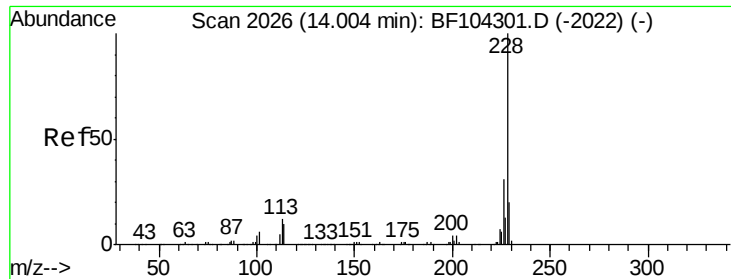
Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.6	22.6	33.8#
229	20.5	15.8	23.6

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





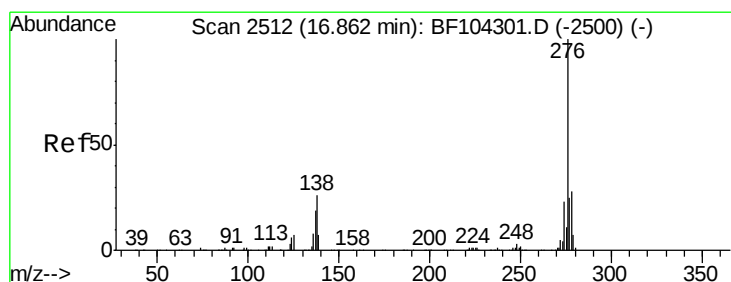
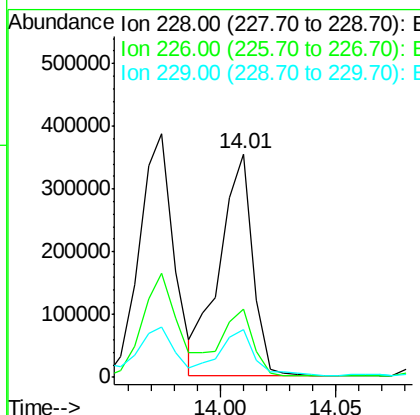
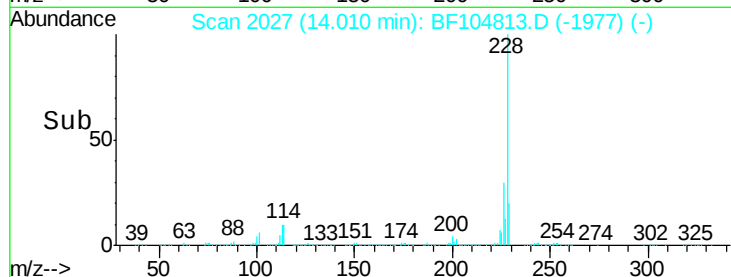
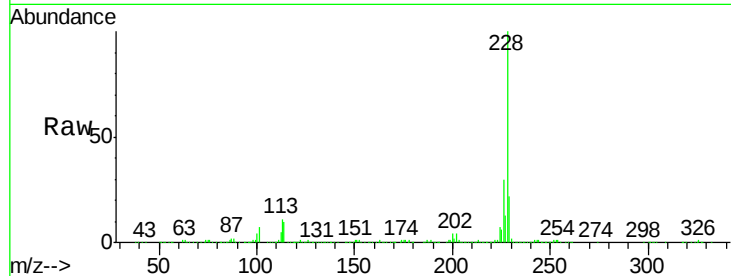
#82
Chrysene
Concen: 27.613 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampled :
A2-SB02-S-3.5

Tot Ion:	228	Resp:	354141
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.0	37.6
229	21.6	16.2	24.4

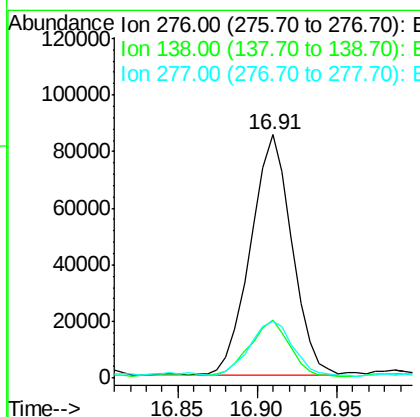
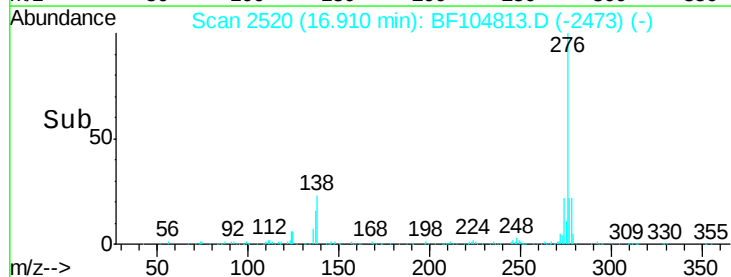
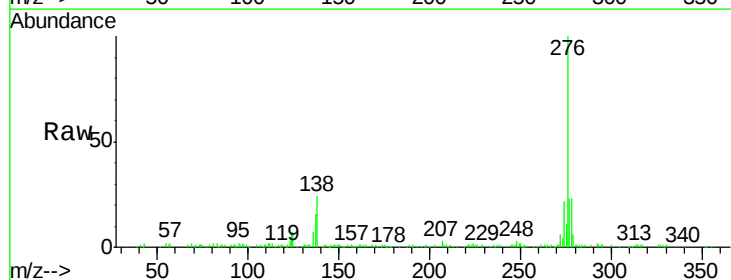
Manual Integrations
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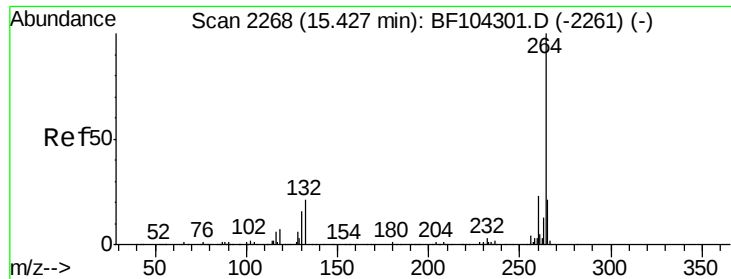
Sohil
4/26/2018 6:15:01 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.975 ng m
RT: 16.91 min Scan# 2520
Delta R.T. -0.02 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion:	276	Resp:	152257
Ion Ratio	Lower	Upper	
276	100		
138	2.5	25.0	37.6#
277	2.3	20.1	30.1#





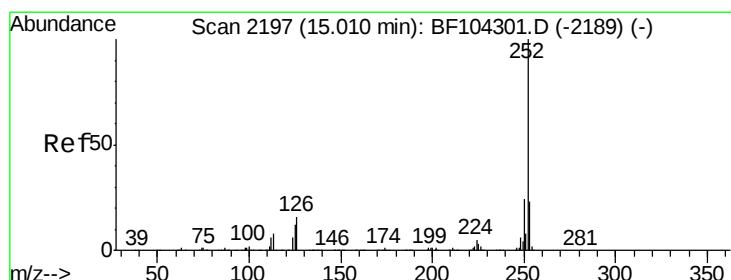
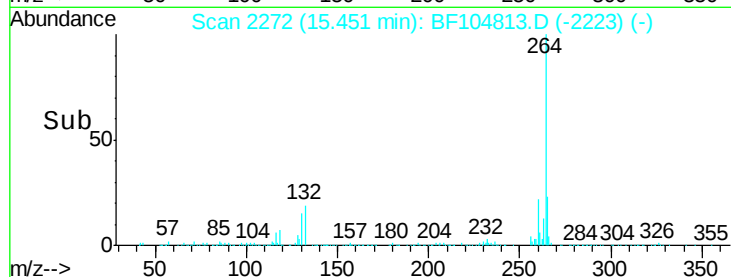
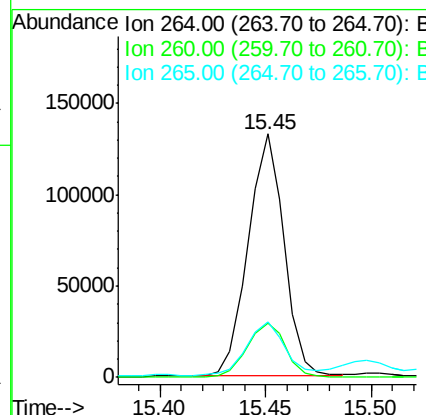
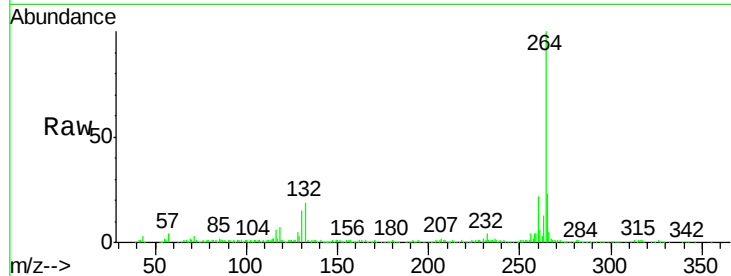
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.45 min Scan# 2272
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.4	19.2	28.8
265	22.9	17.5	26.3

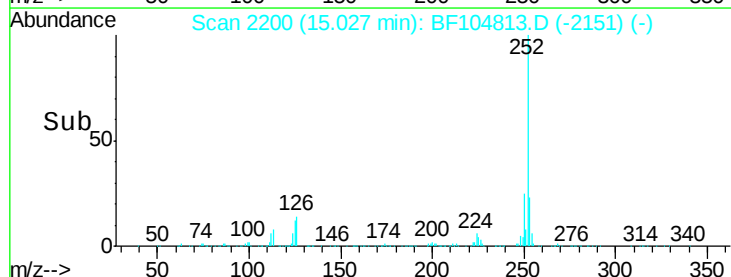
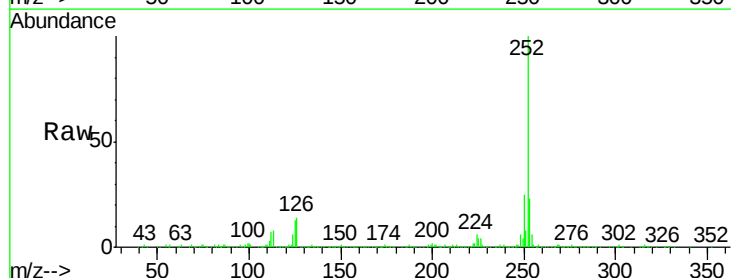
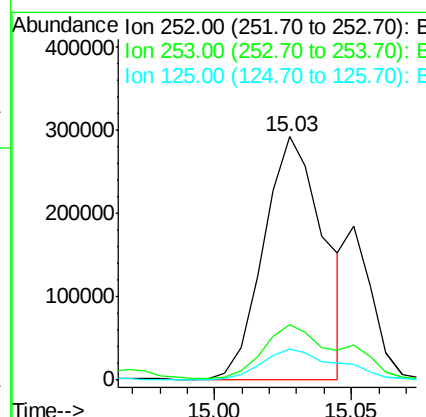
Manual Integrations
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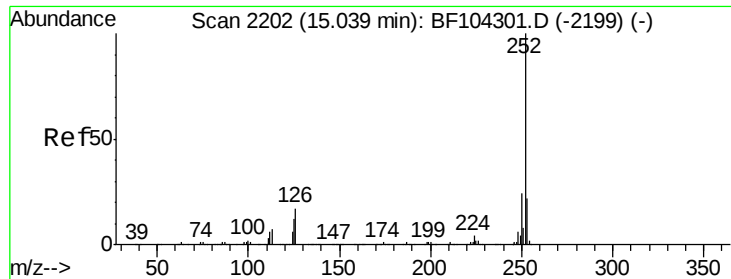
Sohil
4/26/2018 6:15:01 PM



#87
Benzo(b)fluoranthene
Concen: 45.438 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

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





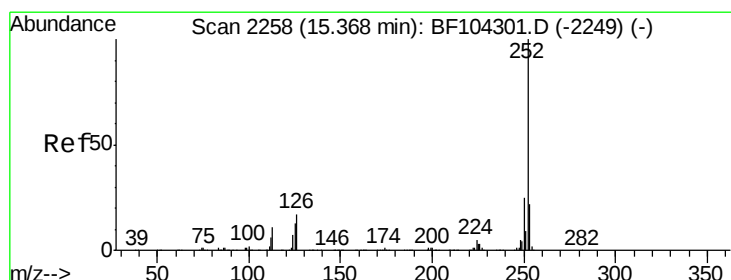
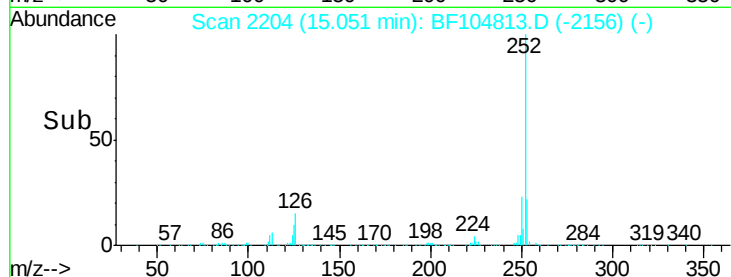
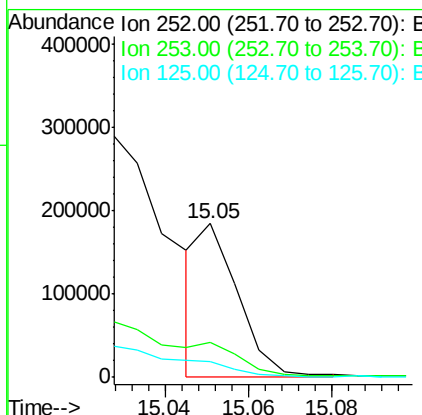
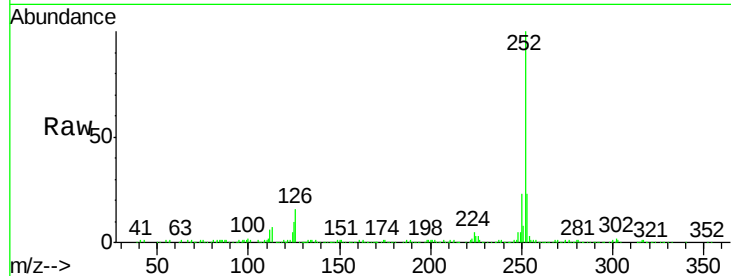
#88
Benzo(k)fluoranthene
Concen: 12.908 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.02 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
252	100		120942		
253	22.7	17.9	26.9		
125	10.4	10.2	15.2		

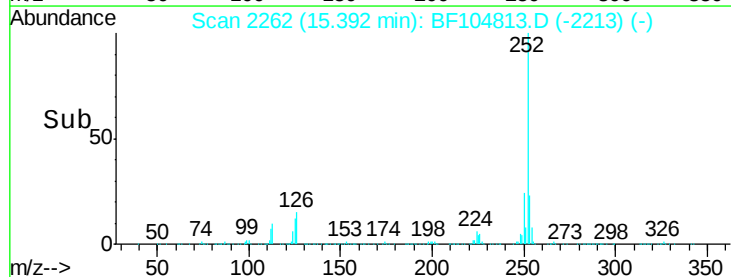
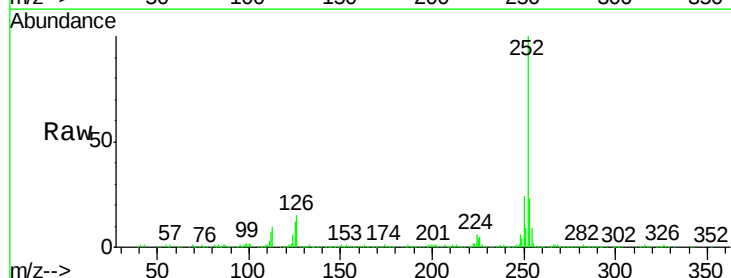
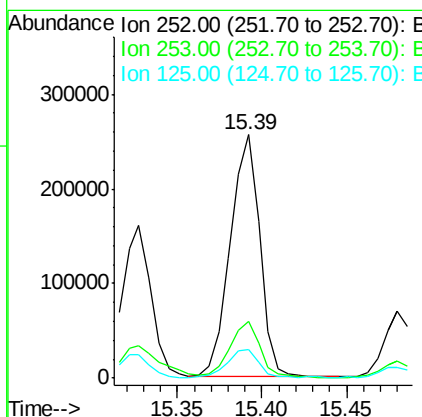
Manual Integrations
APPROVED

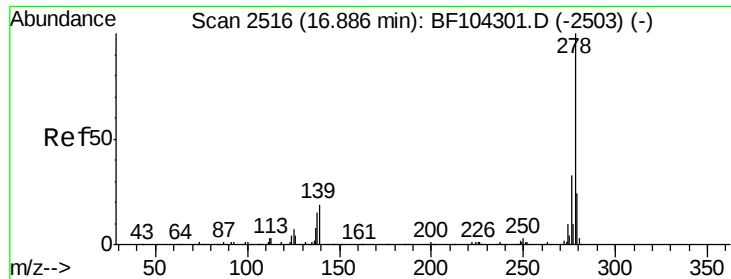
Sohil
4/26/2018 6:15:01 PM



#89
Benzo(a)pyrene
Concen: 35.055 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
252	100		311285		
253	23.4	17.1	25.7		
125	11.9	9.8	14.6		





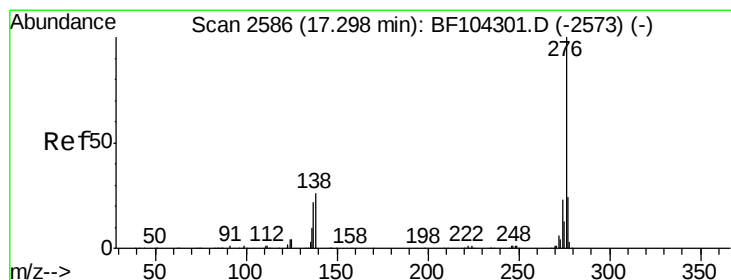
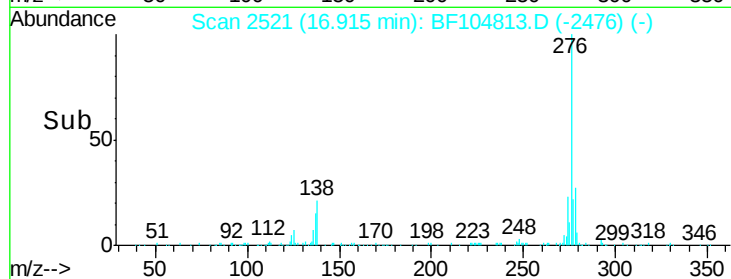
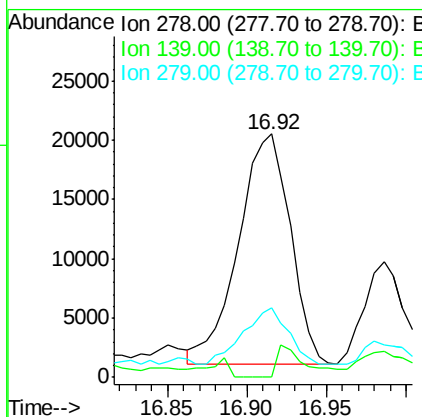
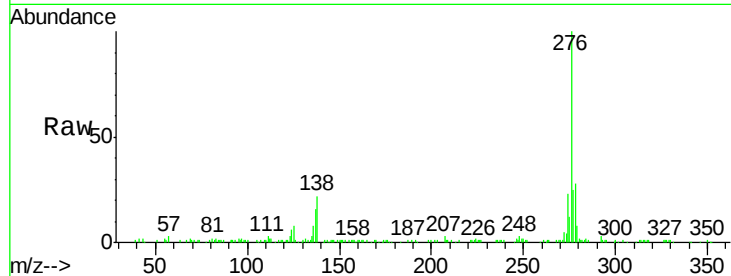
#90
Dibenzo(a,h)anthracene
Concen: 6.046 ng m
RT: 16.92 min Scan# 2521
Delta R.T. -0.04 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Instrument :
BNA_F
ClientSampleId :
A2-SB02-S-3.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.3	19.0	28.4

Manual Integrations
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Sohil
4/26/2018 6:15:01 PM



#91
Benzo(g,h,i)perylene
Concen: 21.186 ng
RT: 17.36 min Scan# 2596
Delta R.T. -0.02 min
Lab File: BF104813.D
Acq: 26 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.6	17.9	26.9
138	22.9	21.8	32.8

