

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
 Data File : BF108303.D
 Acq On : 20 Aug 2018 21:12
 Operator : JU/SJ
 Sample : J4274-03 10X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-081718

Manual Integrations
 APPROVED

Sohil
 8/21/2018 1:43:14 PM

Quant Time: Aug 21 10:48:54 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.02	152	175339	20.00	ng	0.00
21) Naphthalene-d8	8.30	136	632456	20.00	ng	0.00
38) Acenaphthene-d10	10.07	164	272069	20.00	ng	0.00
63) Phenanthrene-d10	11.57	188	464216	20.00	ng	0.00
75) Chrysene-d12	14.23	240	302228	20.00	ng	0.01
86) Perylene-d12	15.79	264	256324	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.64	112	85423	8.82	ng	0.00
7) Phenol-d6	6.63	99	115869	9.00	ng	0.00
23) Nitrobenzene-d5	7.57	82	66749	5.89	ng	0.00
41) 2,4,6-Tribromophenol	10.85	330	20096	7.41	ng	0.00
44) 2-Fluorobiphenyl	9.37	172	129310	7.63	ng	0.00
78) Terphenyl-d14	13.14	244	106979	9.00	ng	0.00
Target Compounds						
31) Naphthalene	8.32	128	136400	4.742	ng	98
37) 2-Methylnaphthalene	9.01	142	91991	4.520	ng	99
48) Acenaphthylene	9.92	152	161169	6.430	ng	99
51) Acenaphthene	10.10	154	331294	21.580	ng	99
54) Dibenzofuran	10.27	168	308990	13.892	ng	99
57) Fluorene	10.61	166	427192	24.263	ng	99
70) Phenanthrene	11.60	178	3430849	156.692	ng	93
71) Anthracene	11.64	178	1257609	56.040	ng	99
72) Carbazole	11.79	167	263901	13.236	ng	99
74) Fluoranthene	12.80	202	4757479	199.090	ng	94
77) Pyrene	13.04	202	4095481	214.040	ng	# 91
80) Benzo(a)anthracene	14.22	228	2099360m	121.037	ng	
82) Chrysene	14.26	228	1778870m	111.867	ng	
85) Indeno(1,2,3-cd)pyrene	17.43	276	804624	58.399	ng	# 87
87) Benzo(b)fluoranthene	15.33	252	2050520m	133.877	ng	
88) Benzo(k)fluoranthene	15.35	252	546766m	38.834	ng	
89) Benzo(a)pyrene	15.74	252	1327663m	96.801	ng	
90) Dibenzo(a,h)anthracene	17.44	278	208301	18.355	ng	# 92
91) Benzo(a,h,i)perylene	17.93	276	714758	63.964	ng	# 91

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

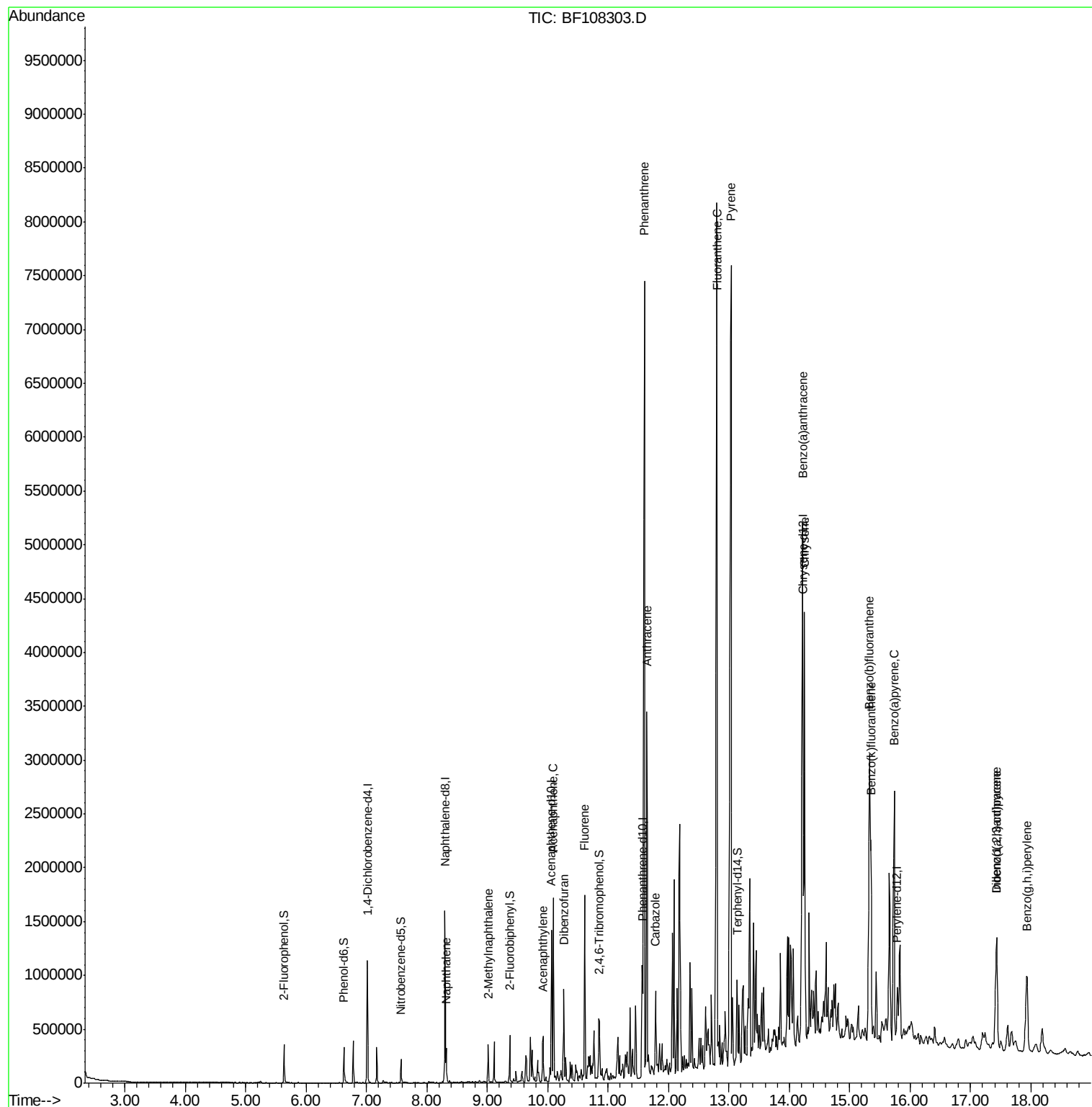
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
Data File : BF108303.D
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Misc :
ALS Vial : 15 Sample Multiplier: 1

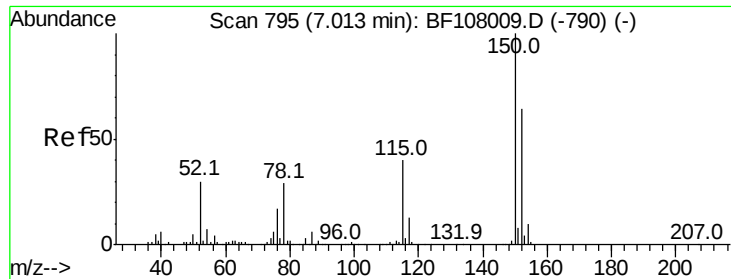
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

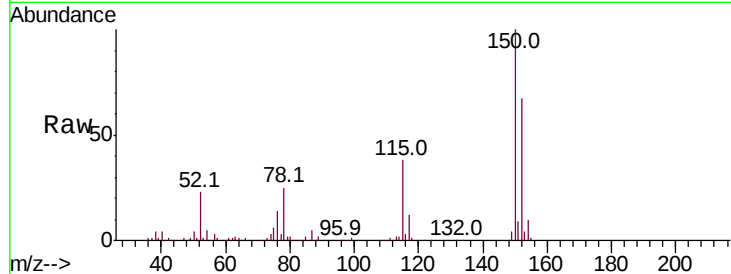
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.02 min Scan# 796
Delta R.T. 0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.6	186.8
115	56.8	50.1	75.1

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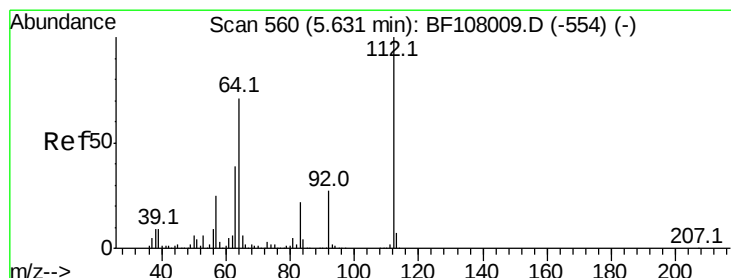
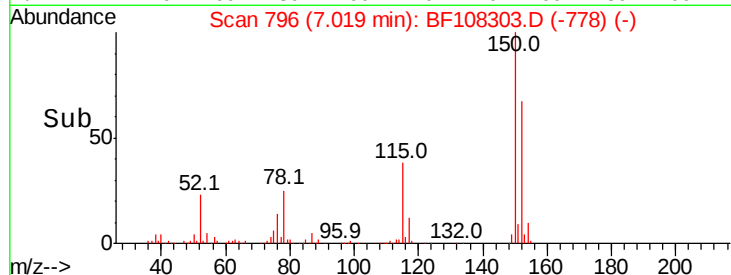
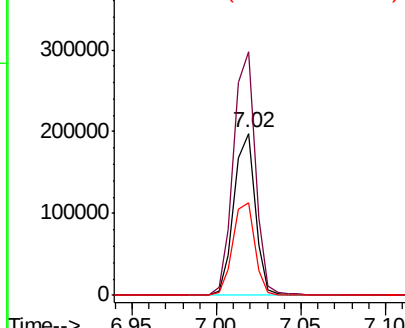


Abundance

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: 8.820 ng
RT: 5.64 min Scan# 561
Delta R.T. 0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

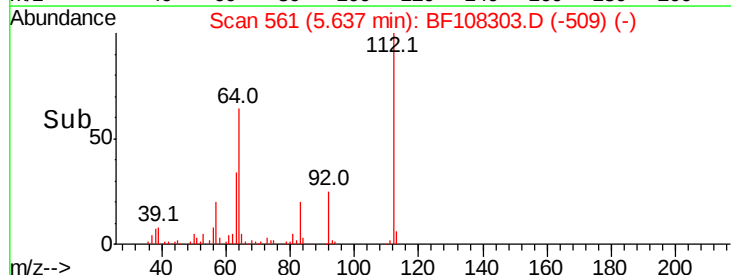
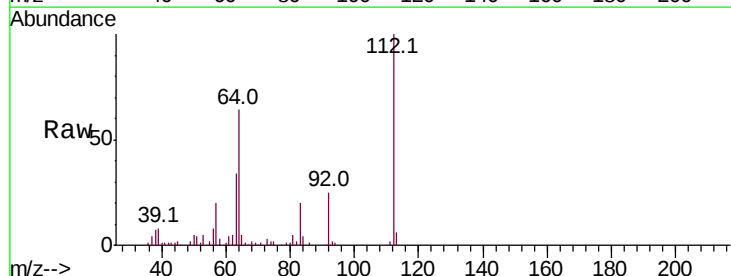
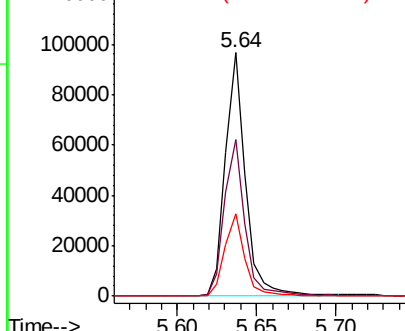
Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.3	47.9	71.9
63	33.6	23.7	35.5

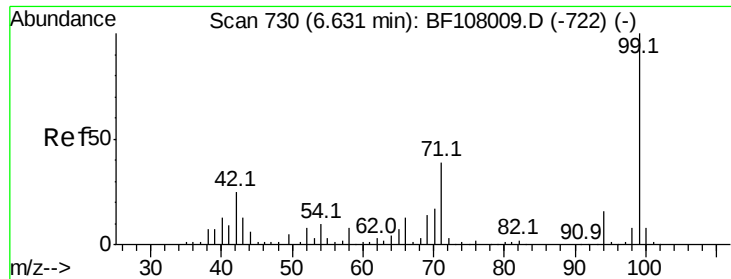
Abundance

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: 9.003 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108303.D

Acq: 20 Aug 2018 21:12

Instrument :

BNA_F

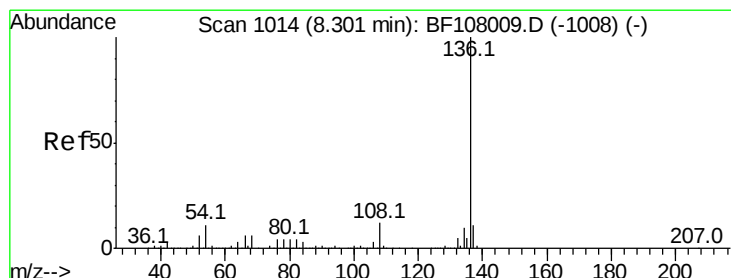
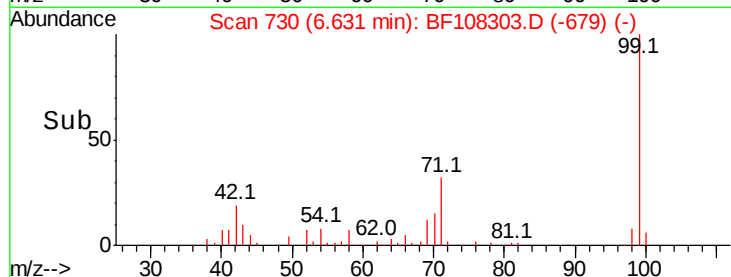
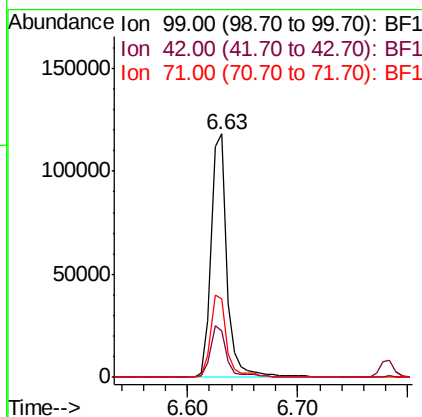
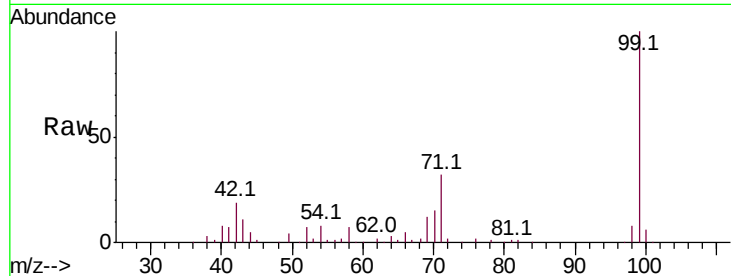
ClientSampleId :

HD-02-081718

Tot Ion:	99	Resp:	115869
Ion	Ratio	Lower	Upper
99	100		
42	19.0	14.5	21.7
71	32.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

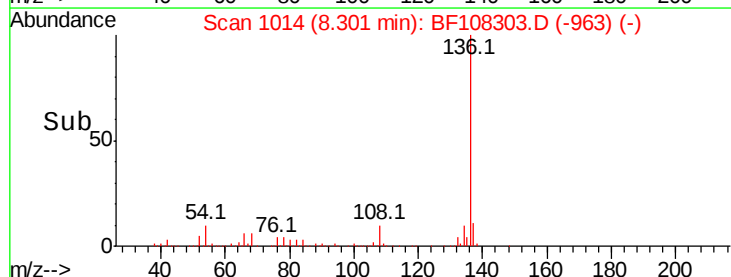
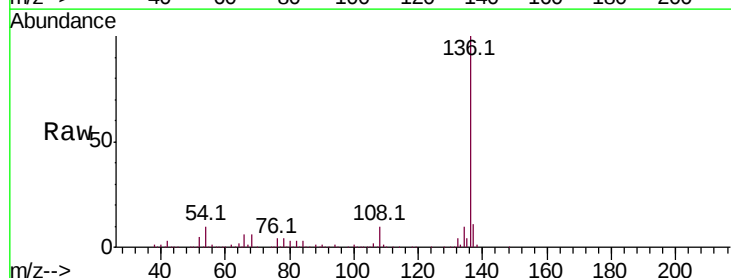
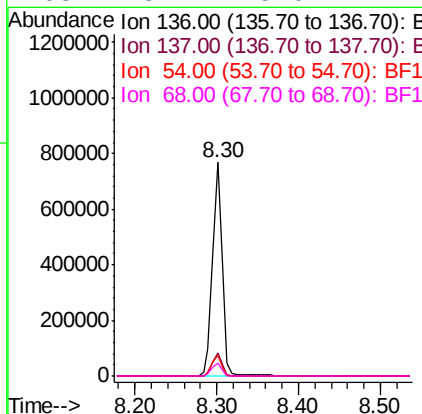
RT: 8.30 min Scan# 1014

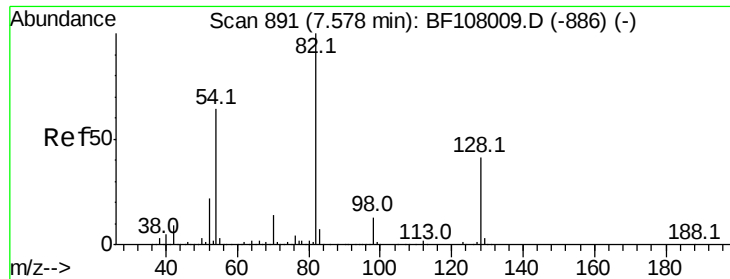
Delta R.T. 0.00 min

Lab File: BF108303.D

Acq: 20 Aug 2018 21:12

Tgt Ion:	136	Resp:	632456
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	9.6	6.6	9.8
68	5.7	5.0	7.4





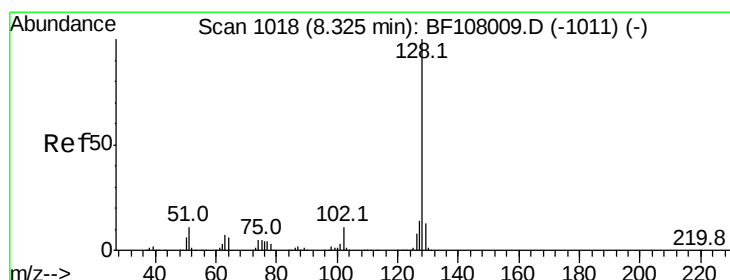
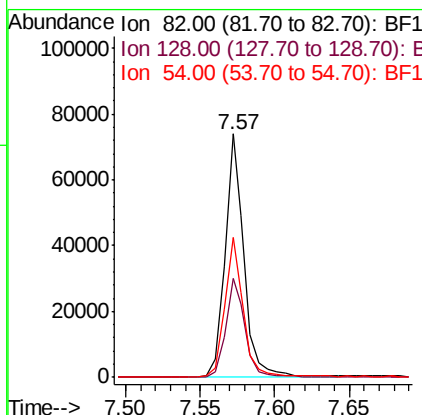
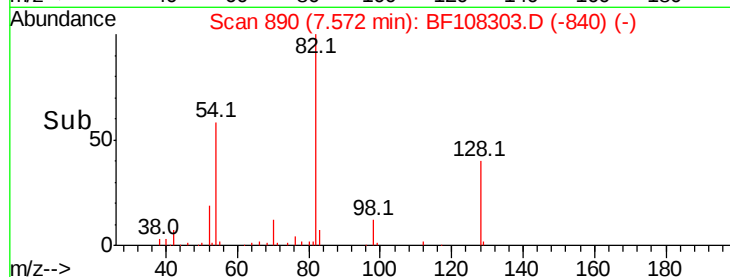
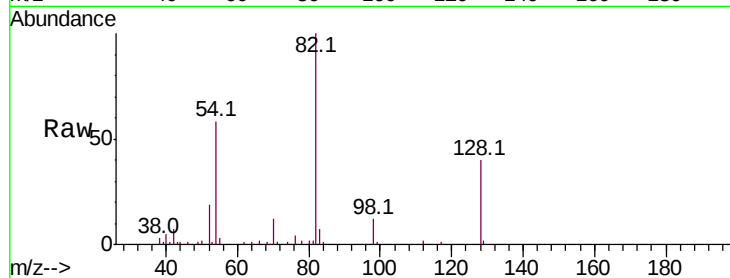
#23
Nitrobenzene-d5
Concen: 5.889 ng
RT: 7.57 min Scan# 890
Delta R.T. -0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Lower	Upper
82	100		
128	40.4	36.1	54.1
54	57.7	41.4	62.2

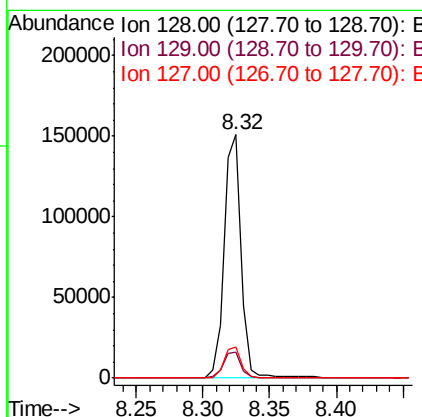
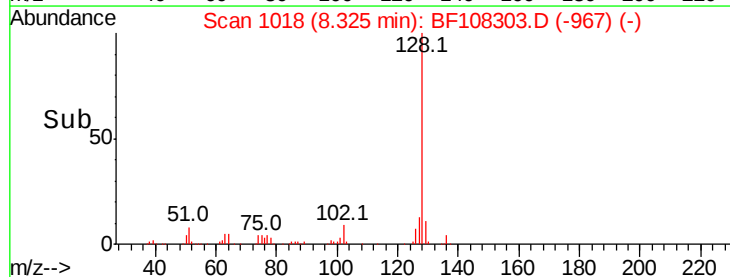
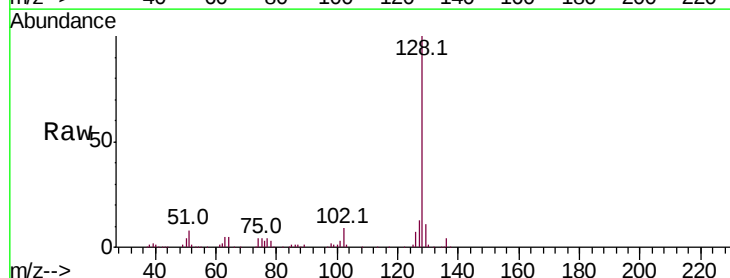
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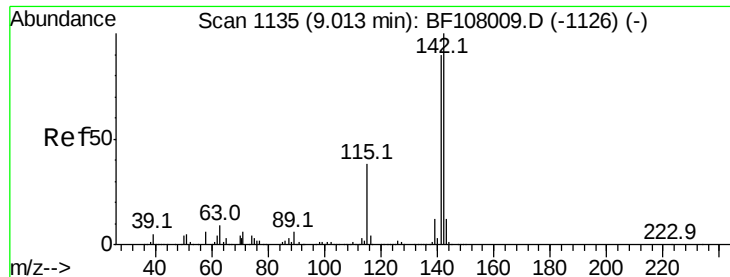
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#31
Naphthalene
Concen: 4.742 ng
RT: 8.32 min Scan# 1018
Delta R.T. 0.00 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.8	13.2
127	12.7	10.9	16.3





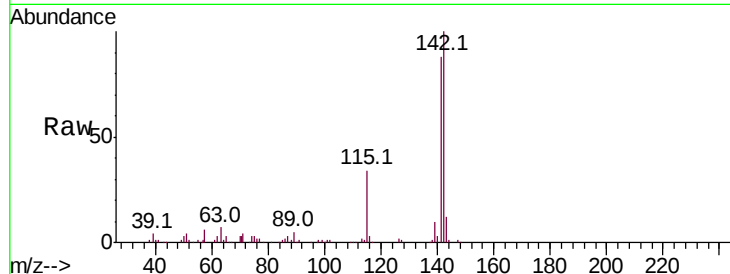
#37
2-Methylnaphthalene
Concen: 4.520 ng
RT: 9.01 min Scan# 1135
Delta R.T. 0.00 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.8	106.2
115	33.6	26.1	39.1

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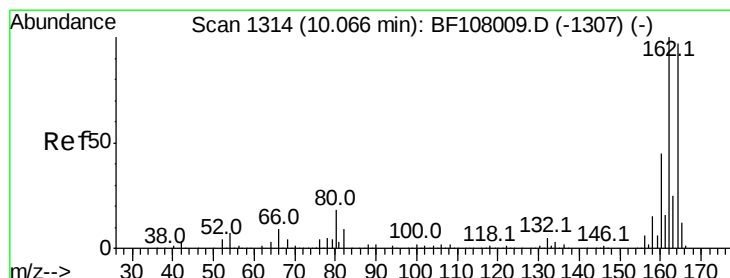
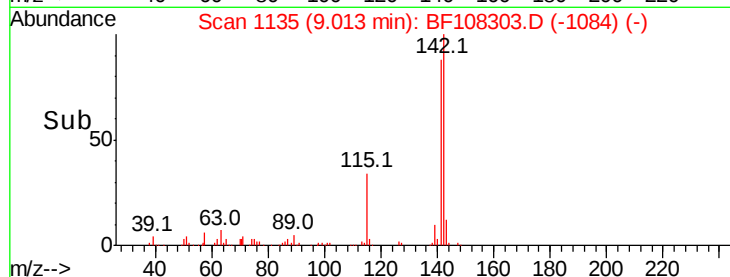
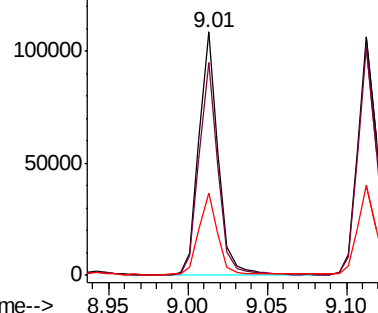


Abundance

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: 10.07 min Scan# 1314
Delta R.T. 0.00 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

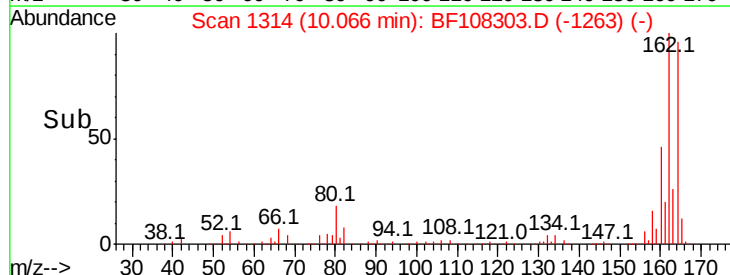
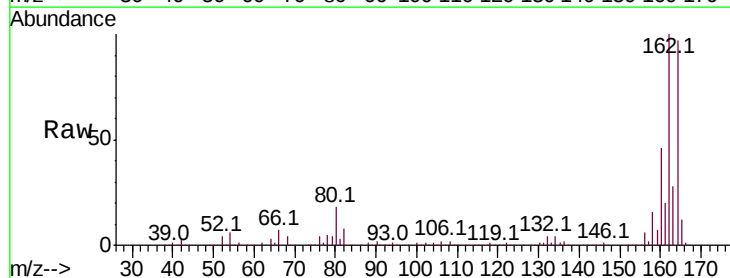
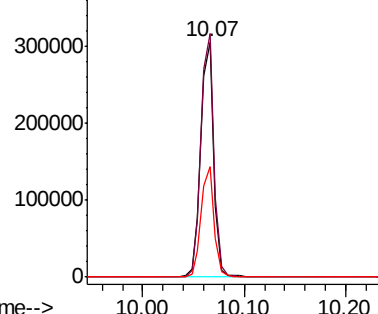
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	86.1	129.1
160	47.2	38.3	57.5

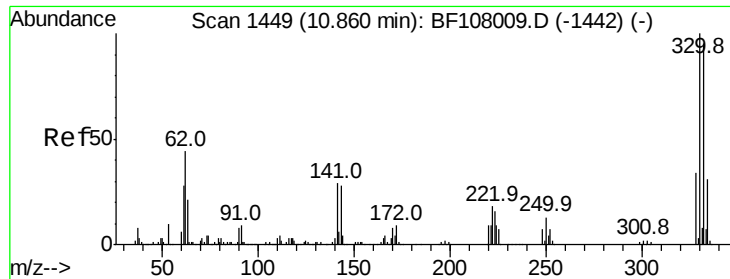
Abundance

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: 7.405 ng

RT: 10.85 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF108303.D

Acq: 20 Aug 2018 21:12

Instrument :

BNA_F

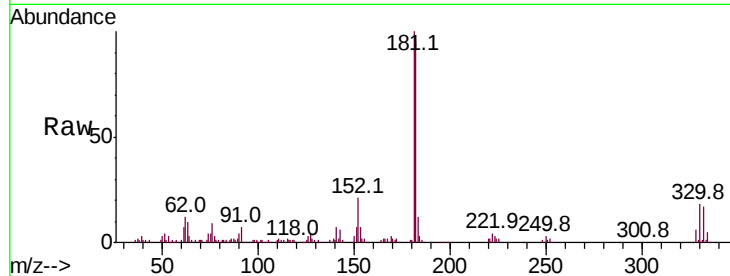
ClientSampleId :

HD-02-081718

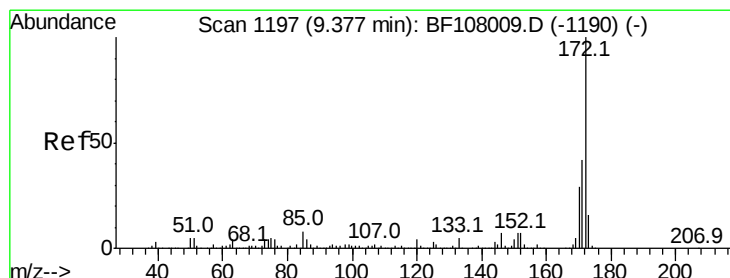
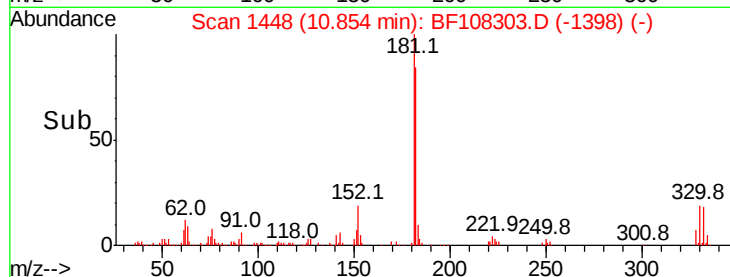
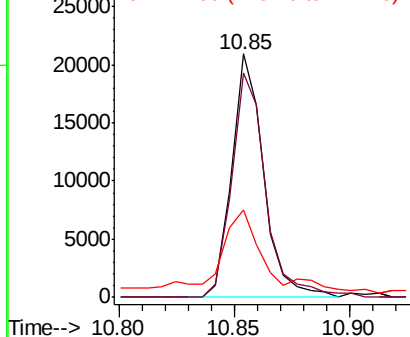
Tot Ion:	330	Resp:	20096
Ion Ratio	Lower	Upper	
330	100		
332	98.7	77.0	115.6
141	52.1	29.9	44.9#

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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: 7.631 ng

RT: 9.37 min Scan# 1196

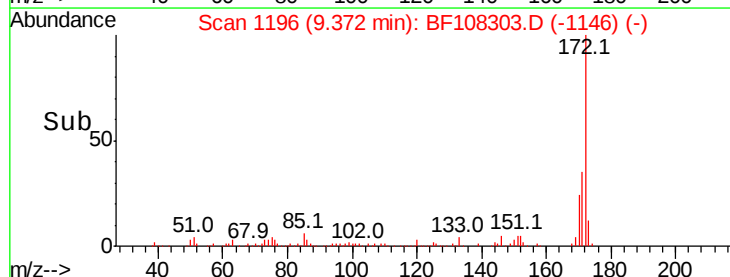
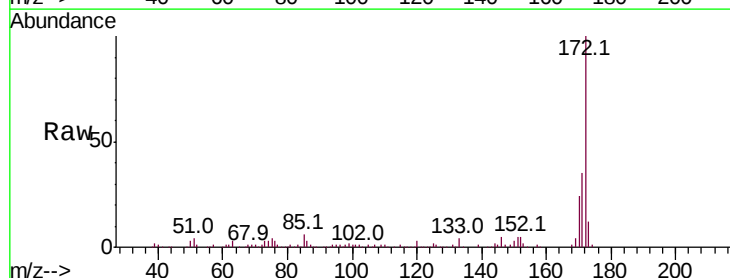
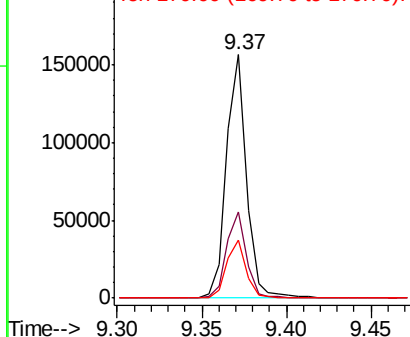
Delta R.T. -0.01 min

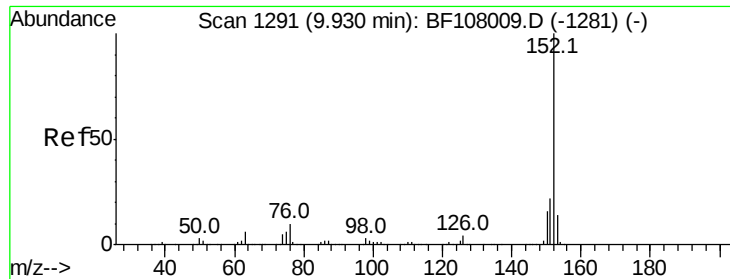
Lab File: BF108303.D

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Tgt Ion:	172	Resp:	129310
Ion Ratio	Lower	Upper	
172	100		
171	35.5	29.7	44.5
170	23.9	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





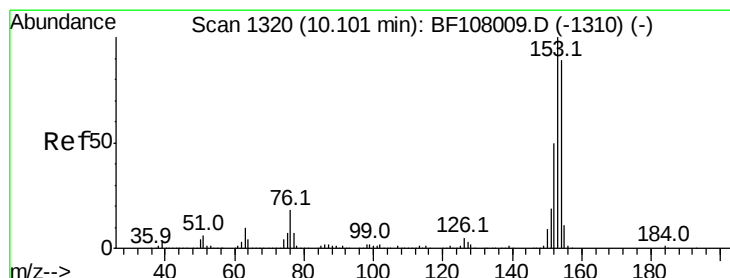
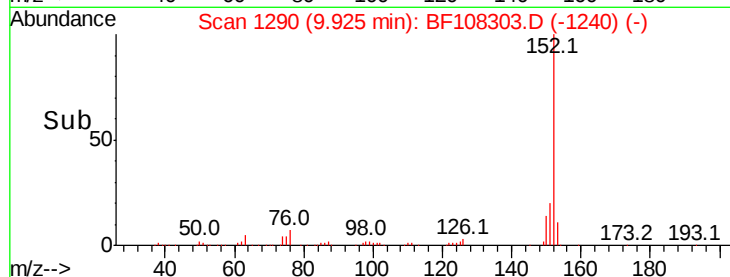
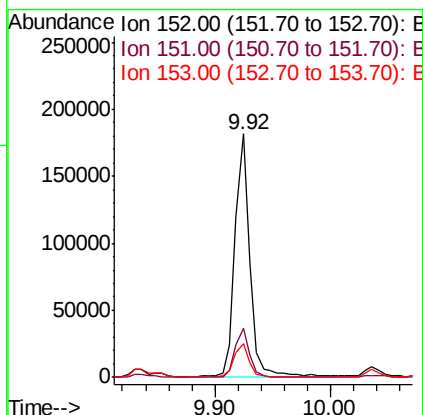
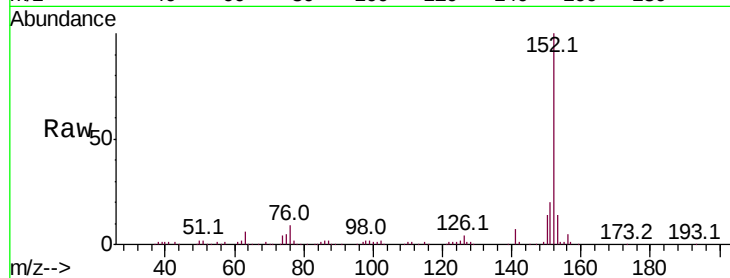
#48
Acenaphthylene
Concen: 6.430 ng
RT: 9.92 min Scan# 1290
Delta R.T. -0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Resp	Lower	Upper
152	100	161169		
151	20.2		16.3	24.5
153	13.8		10.7	16.1

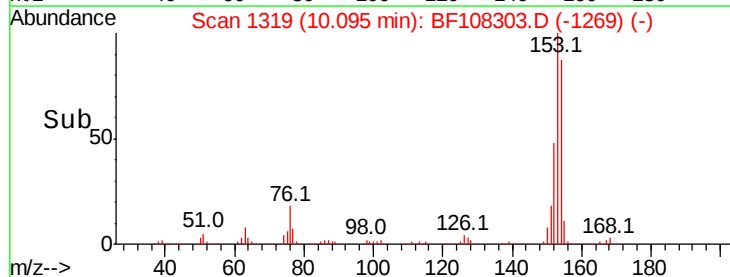
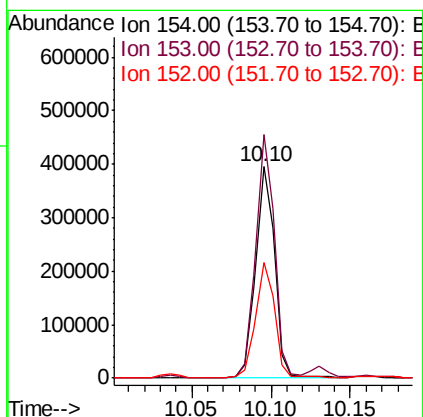
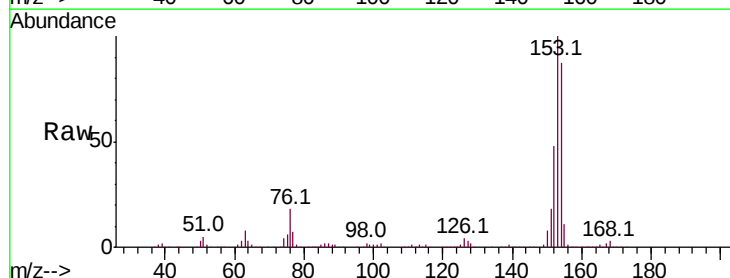
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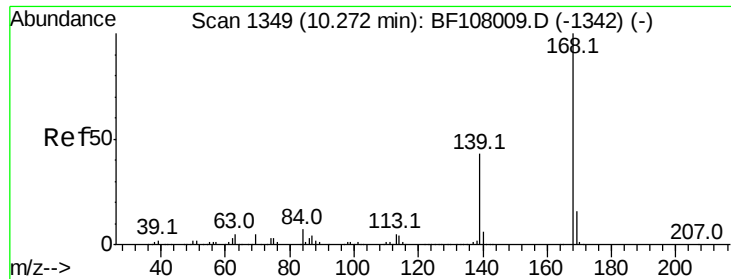
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#51
Acenaphthene
Concen: 21.580 ng
RT: 10.10 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	331294		
153	115.1		91.2	136.8
152	54.9		43.8	65.8





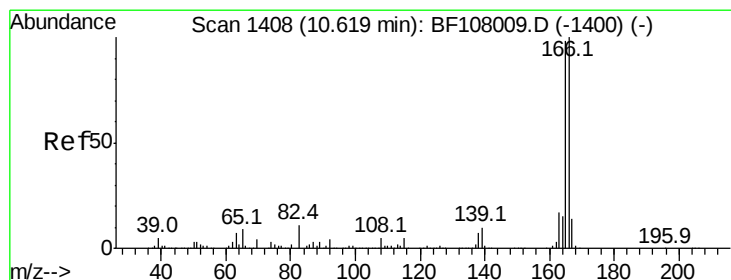
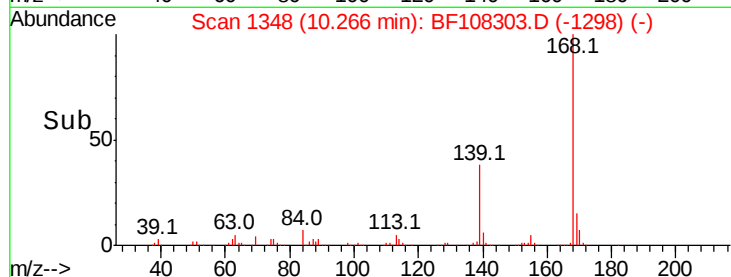
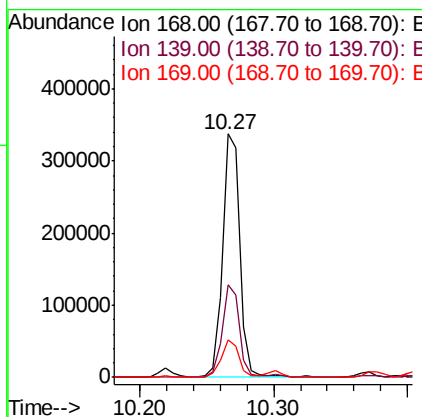
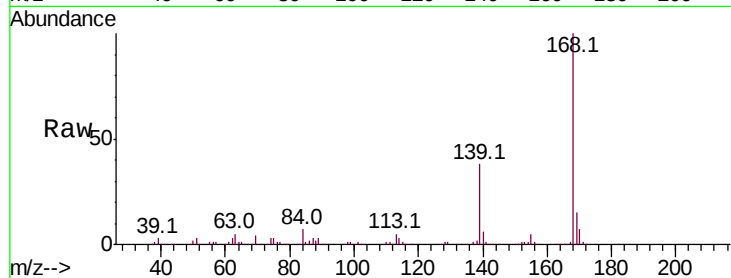
#54
Dibenzofuran
Concen: 13.892 ng
RT: 10.27 min Scan# 1348
Delta R.T. -0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	37.8	30.1	45.1	
169	15.3	10.9	16.3	

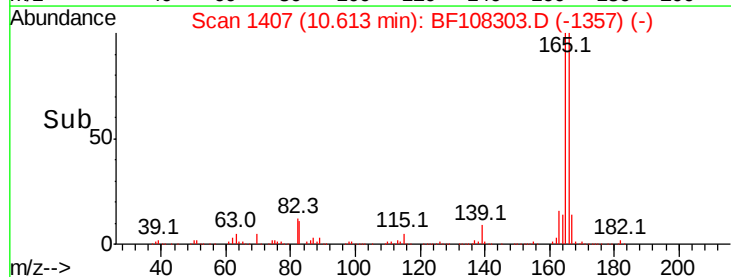
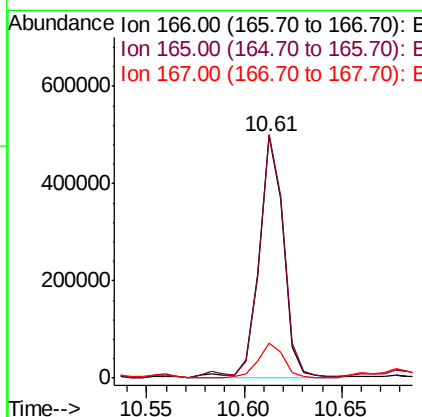
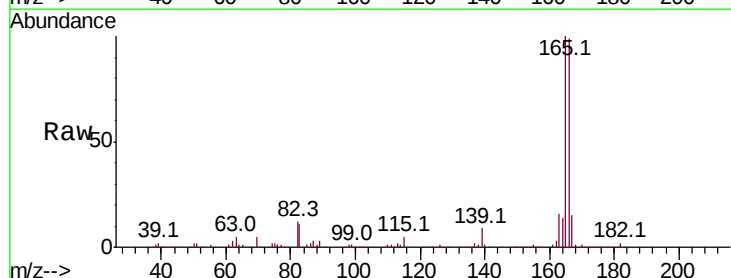
Manual Integrations
APPROVED

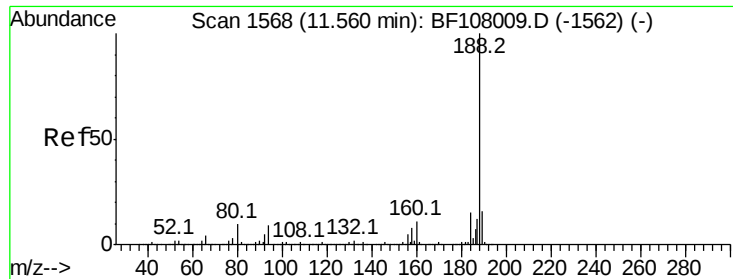
Sohil
8/21/2018 1:43:14 PM



#57
Fluorene
Concen: 24.263 ng
RT: 10.61 min Scan# 1407
Delta R.T. -0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.6	79.8	119.8	
167	14.6	10.6	16.0	





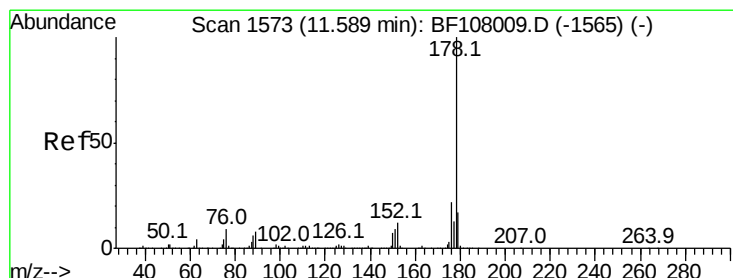
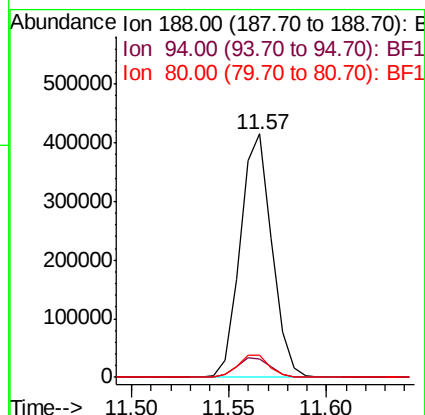
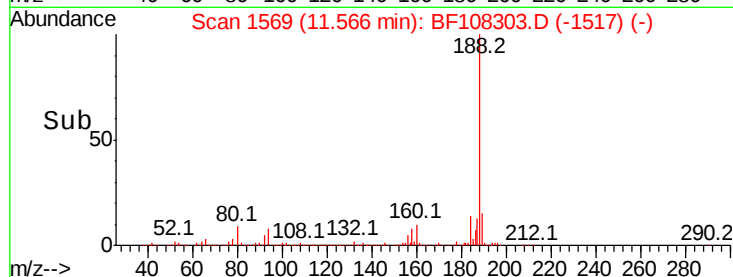
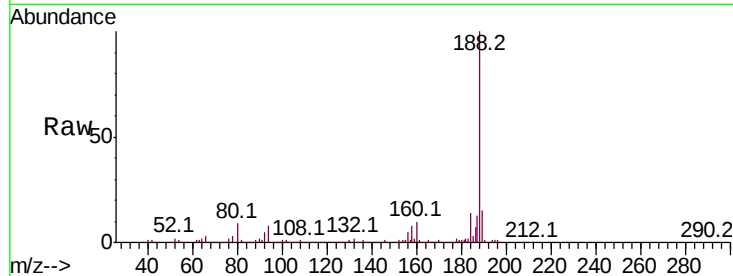
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.57 min Scan# 1569
Delta R.T. 0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Resp	Lower	Upper
188	100	464216		
94	7.7	8.5	12.7#	
80	8.9	9.2	13.8#	

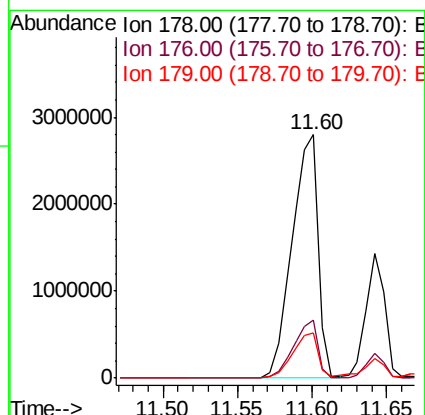
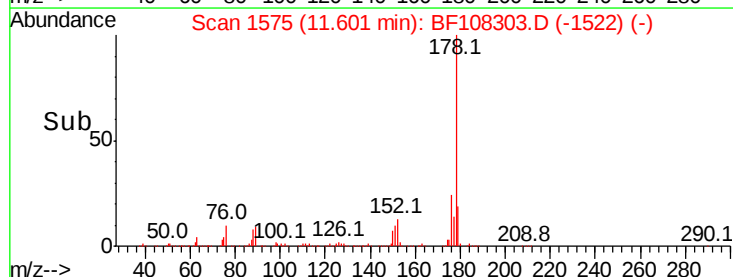
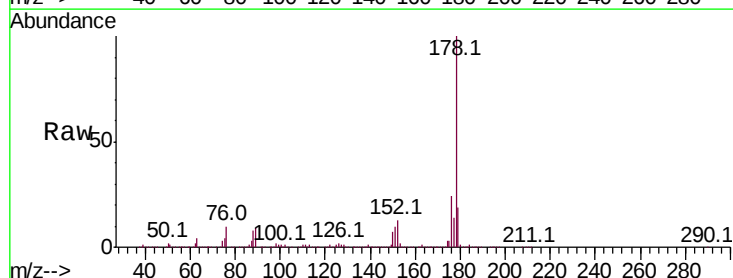
Manual Integrations
APPROVED

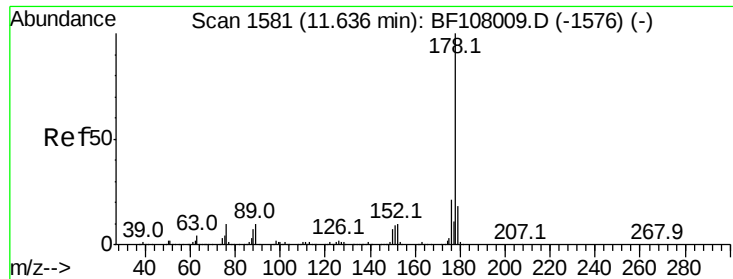
Sohil
8/21/2018 1:43:14 PM



#70
Phenanthrene
Concen: 156.692 ng
RT: 11.60 min Scan# 1575
Delta R.T. 0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3430849		
176	23.6	15.8	23.8	
179	18.6	13.0	19.6	





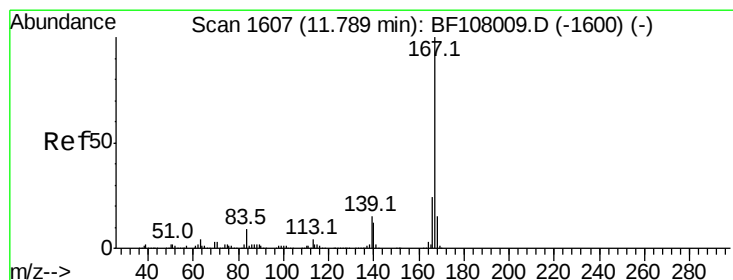
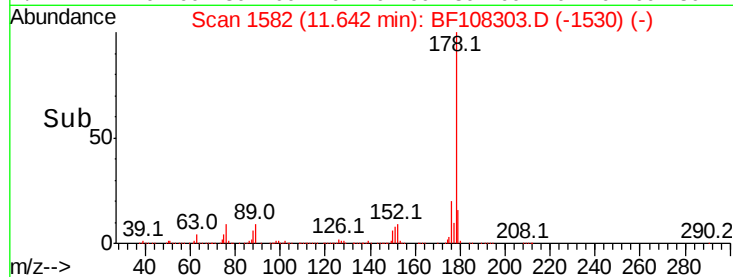
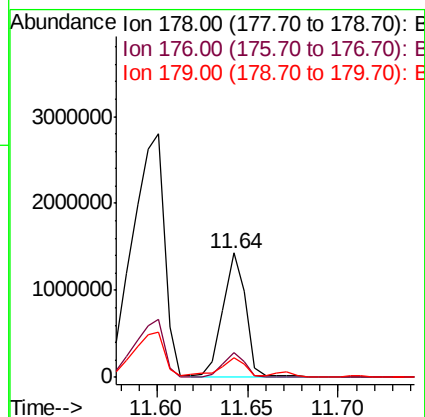
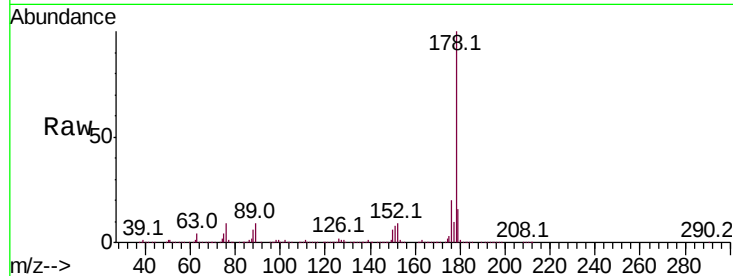
#71
 Anthracene
 Concen: 56.040 ng
 RT: 11.64 min Scan# 1582
 Delta R.T. 0.01 min
 Lab File: BF108303.D
 Acq: 20 Aug 2018 21:12

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-081718

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.2
179	16.3	12.6	19.0

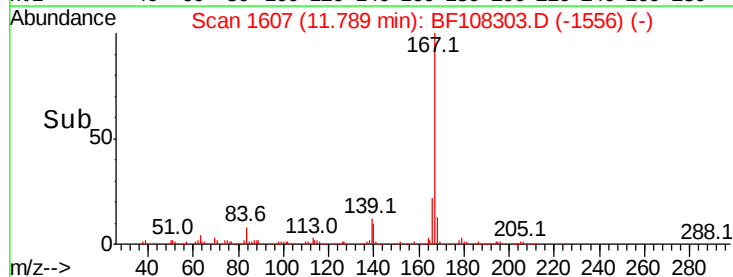
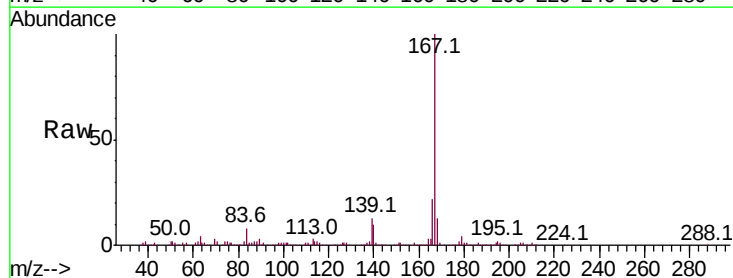
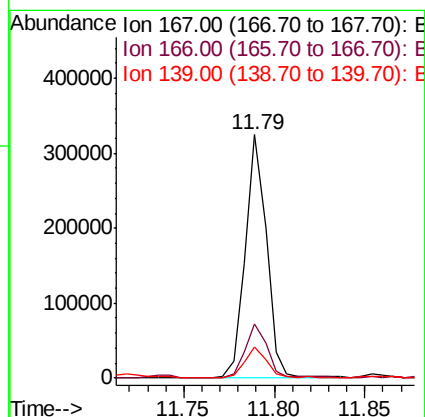
Manual Integrations
 APPROVED

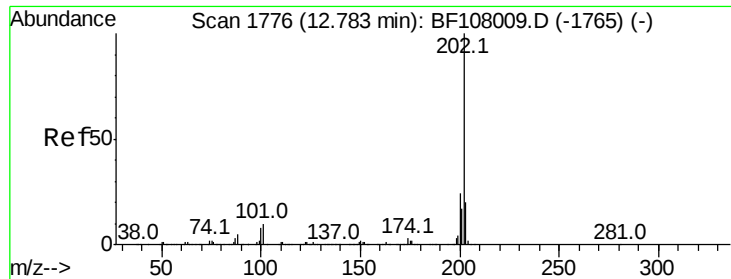
Sohil
 8/21/2018 1:43:14 PM



#72
 Carbazole
 Concen: 13.236 ng
 RT: 11.79 min Scan# 1607
 Delta R.T. 0.00 min
 Lab File: BF108303.D
 Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.6	26.4
139	12.5	10.9	16.3





#74

Fluoranthene

Concen: 199.090 ng

RT: 12.80 min Scan# 1779

Delta R.T. 0.02 min

Lab File: BF108303.D

Acq: 20 Aug 2018 21:12

Instrument :

BNA_F

ClientSampleId :

HD-02-081718

Tot Ion:202 Resp: 4757479

Ion Ratio Lower Upper

202 100

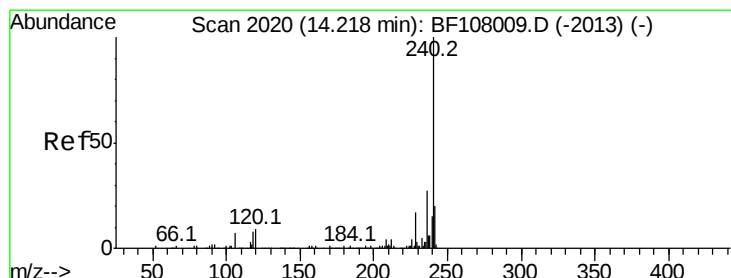
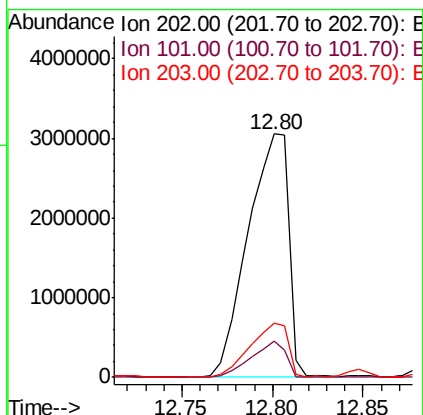
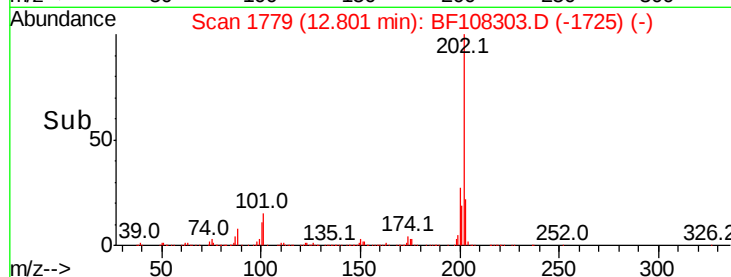
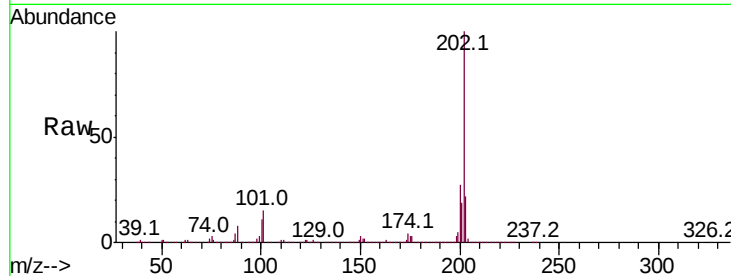
101 14.7 0.0 34.1

203 22.3 0.0 38.1

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.23 min Scan# 2022

Delta R.T. 0.01 min

Lab File: BF108303.D

Acq: 20 Aug 2018 21:12

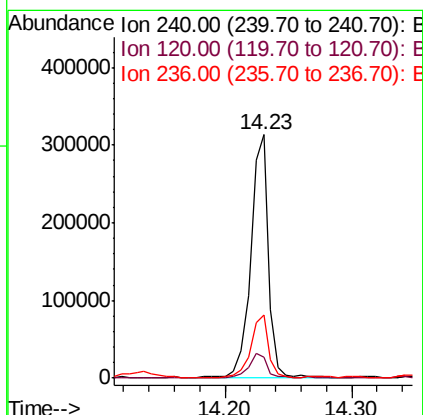
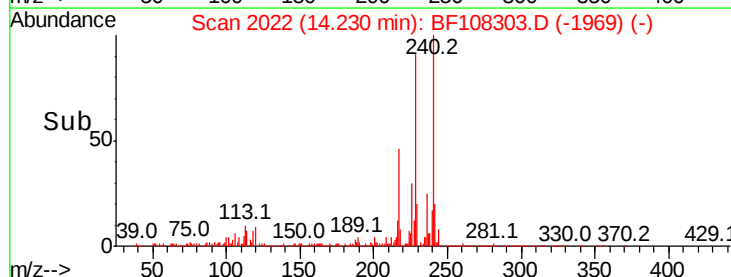
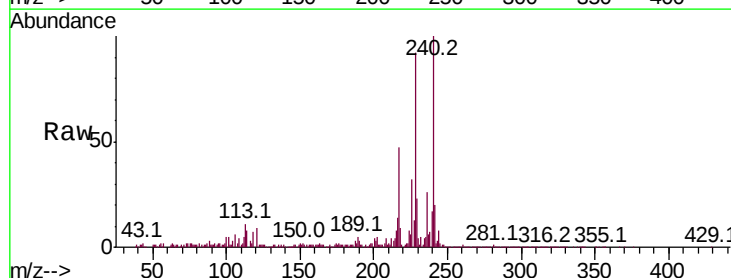
Tgt Ion:240 Resp: 302228

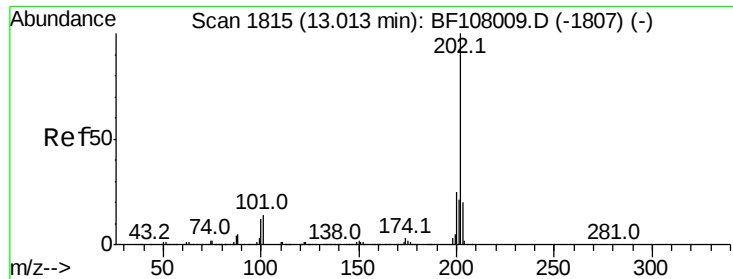
Ion Ratio Lower Upper

240 100

120 8.8 9.5 14.3#

236 26.1 20.7 31.1





#77

Pvrene

Concen: 214.040 ng

RT: 13.04 min Scan# 1819

Delta R.T. 0.02 min

Lab File: BF108303.D

Acq: 20 Aug 2018 21:12

Instrument :

BNA_F

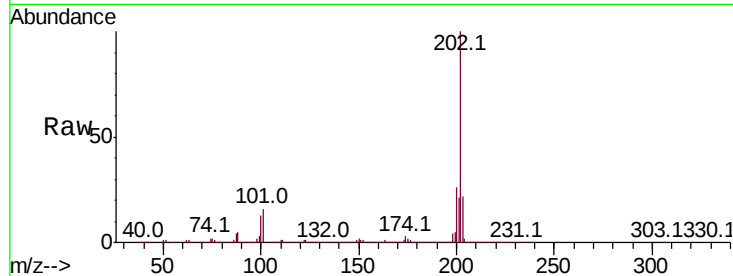
ClientSampleId :

HD-02-081718

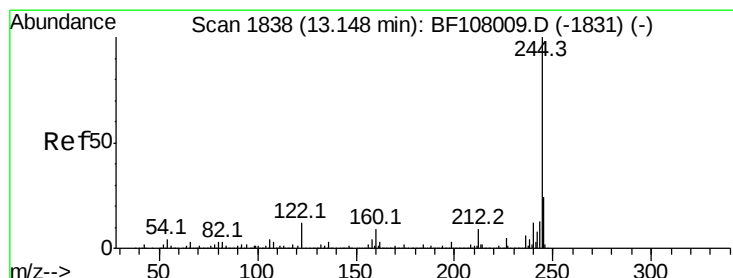
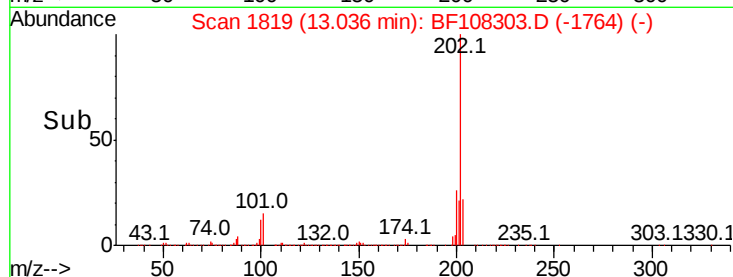
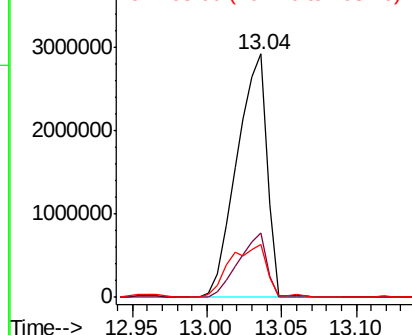
Tot Ion:	202	Resp:	4095481
Ion	Ratio	Lower	Upper
202	100		
200	26.4	17.4	26.2#
203	21.9	14.3	21.5#

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
4000000
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 9.000 ng

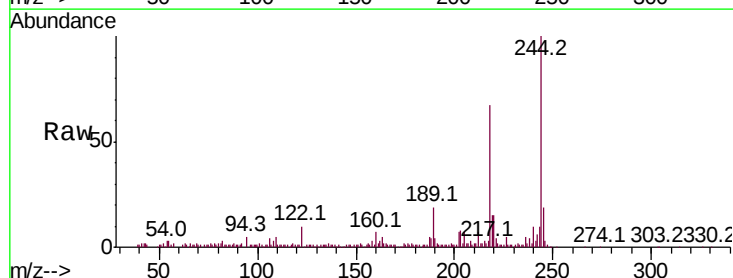
RT: 13.14 min Scan# 1837

Delta R.T. -0.01 min

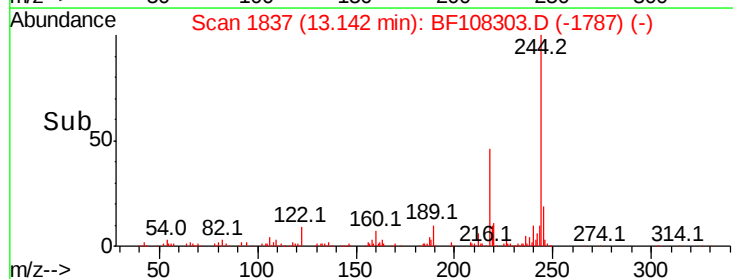
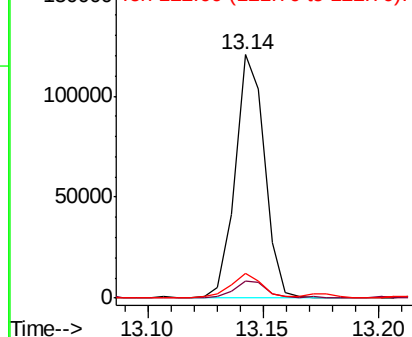
Lab File: BF108303.D

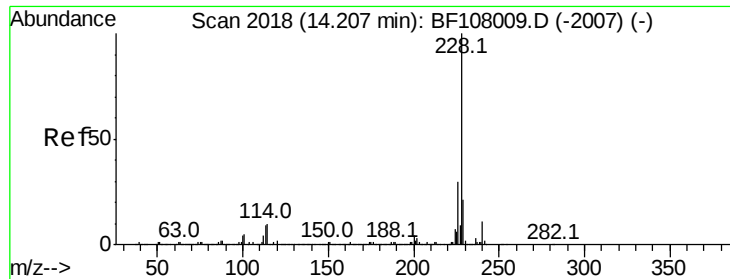
Acq: 20 Aug 2018 21:12

Tgt Ion:	244	Resp:	106979
Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.0
122	10.1	11.0	16.4#



Abundance Ion 244.00 (243.70 to 244.70): E
150000
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





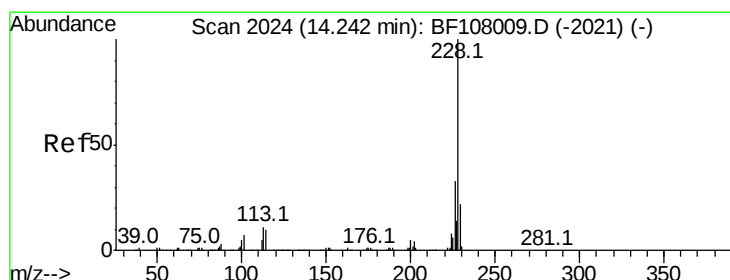
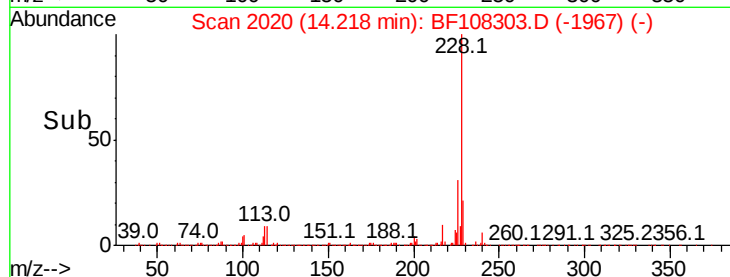
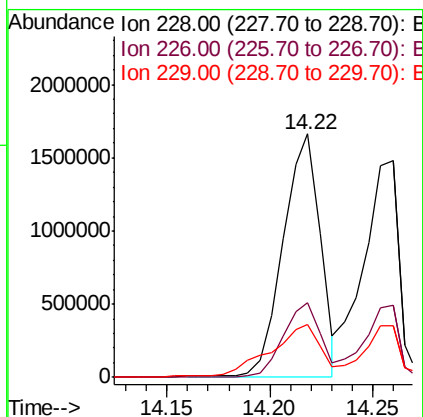
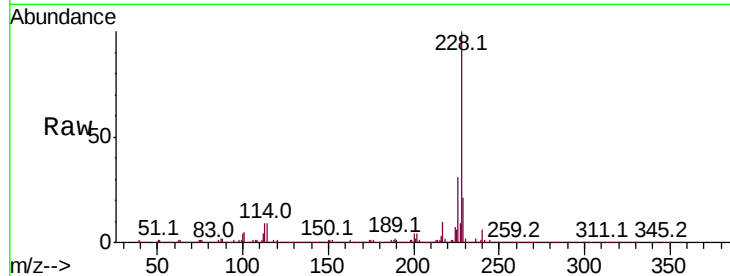
#80
Benzo(a)anthracene
Concen: 121.037 ng m
RT: 14.22 min Scan# 2020
Delta R.T. 0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	22.6	33.8
229	21.5	15.8	23.6

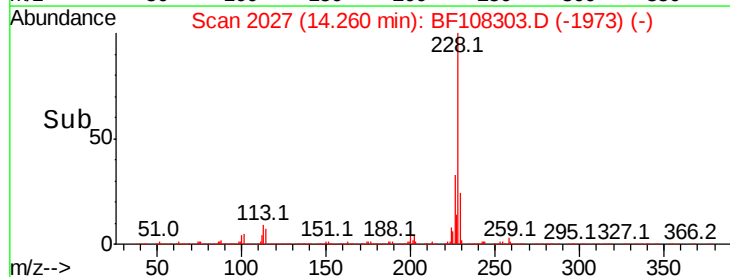
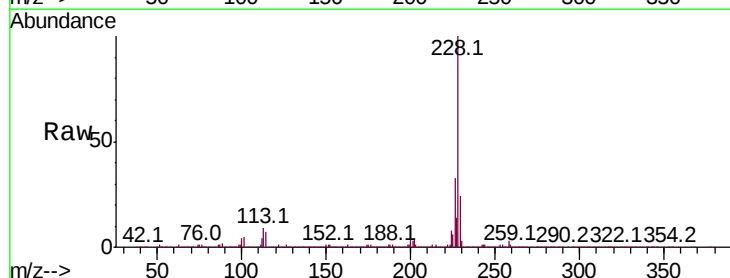
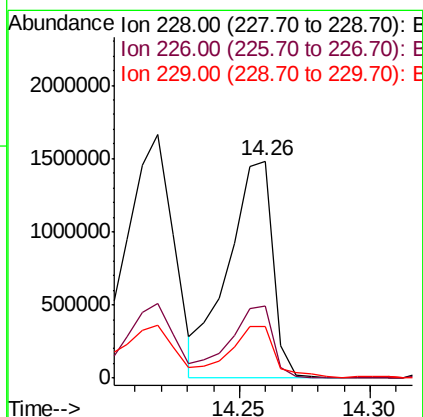
Manual Integrations
APPROVED

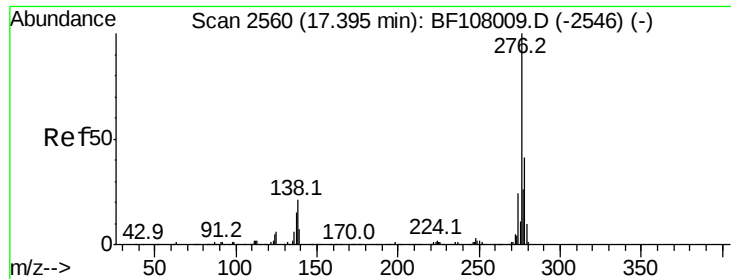
Sohil
8/21/2018 1:43:14 PM



#82
Chrysene
Concen: 111.867 ng m
RT: 14.26 min Scan# 2027
Delta R.T. 0.02 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.0	25.0	37.6
229	23.8	16.2	24.4





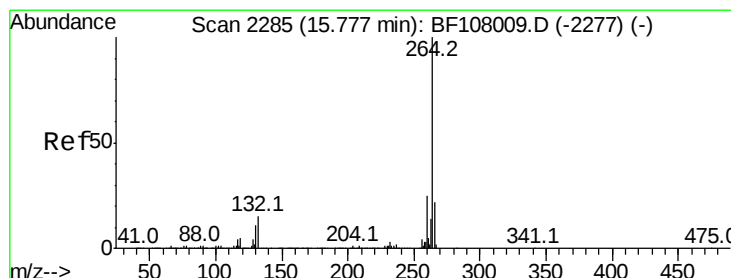
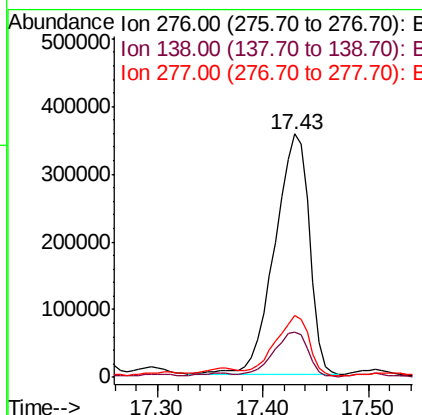
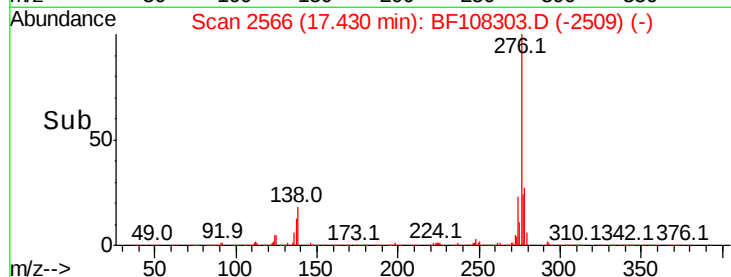
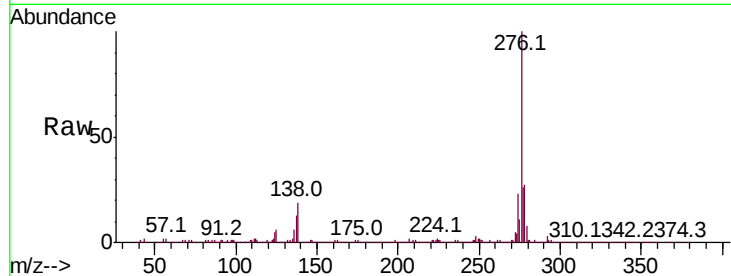
#85
Indeno(1,2,3-cd)pyrene
Concen: 58.399 ng
RT: 17.43 min Scan# 2566
Delta R.T. 0.04 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.4	25.0	37.6#
277	24.6	20.1	30.1

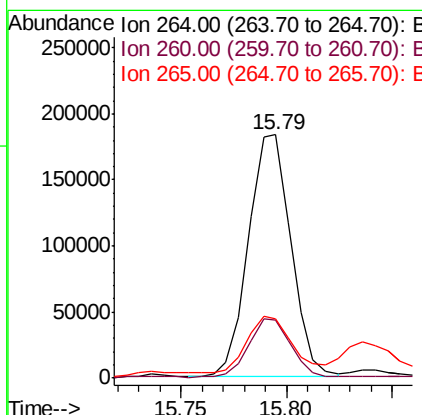
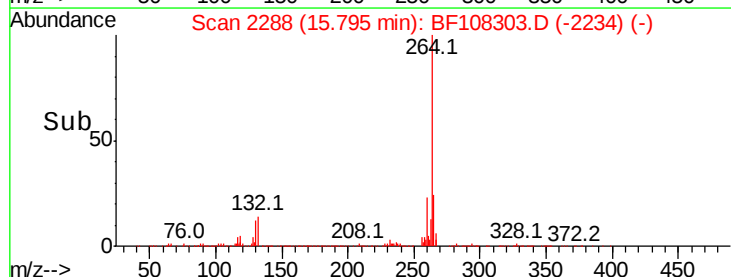
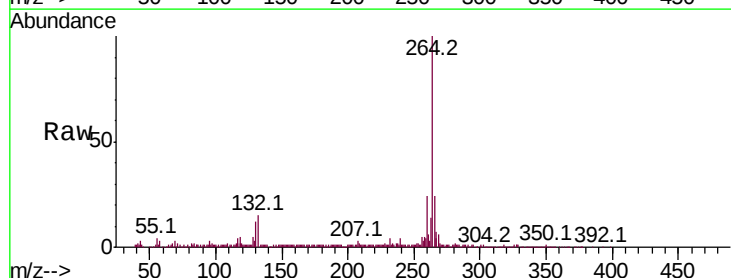
Manual Integrations
APPROVED

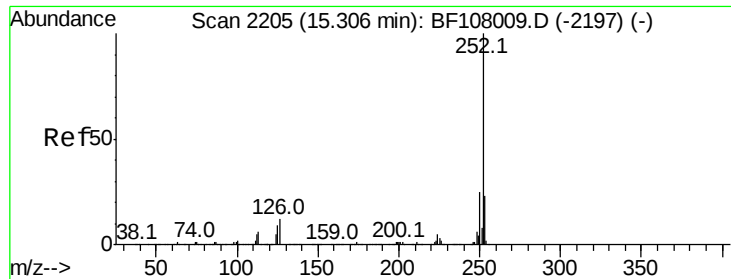
Sohil
8/21/2018 1:43:14 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.79 min Scan# 2288
Delta R.T. 0.02 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	24.3	17.5	26.3





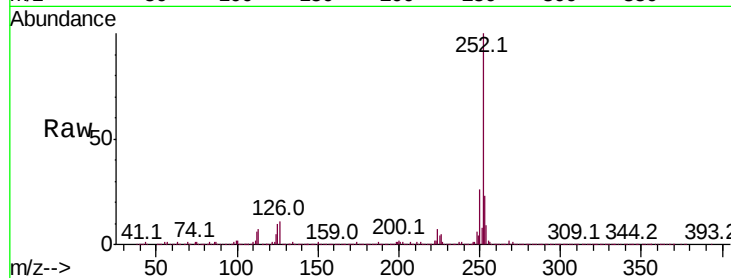
#87
Benzo(b)fluoranthene
Concen: 133.877 ng m
RT: 15.33 min Scan# 2209
Delta R.T. 0.02 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampled :
HD-02-081718

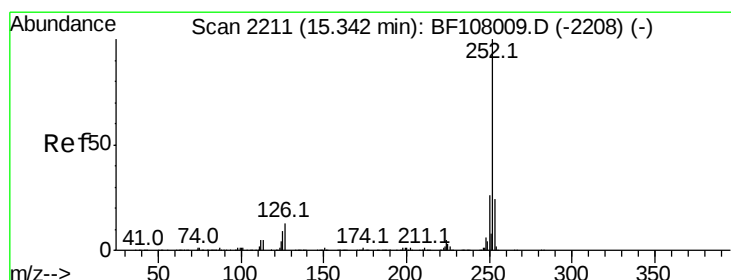
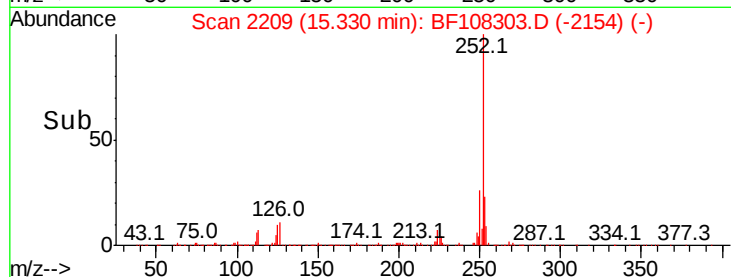
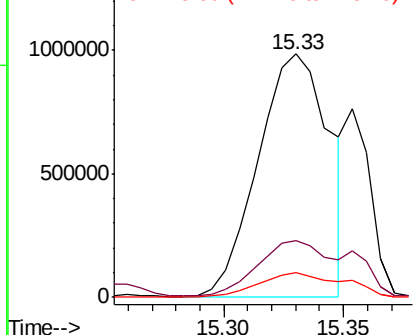
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	10.0	9.0	13.6

Manual Integrations
APPROVED

Sohil
8/21/2018 1:43:14 PM



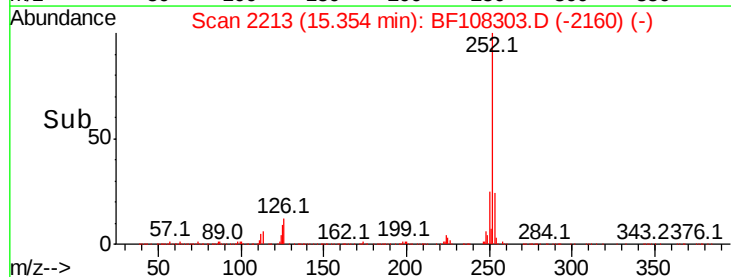
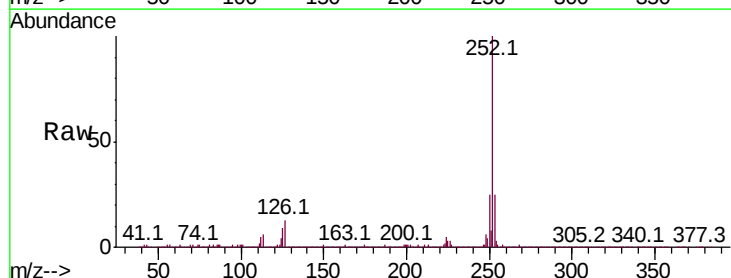
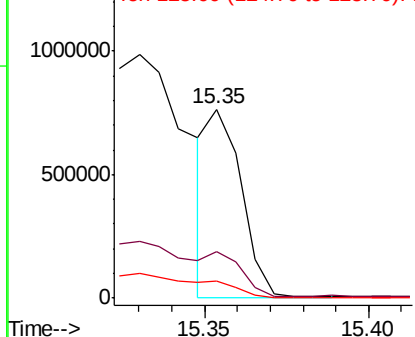
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

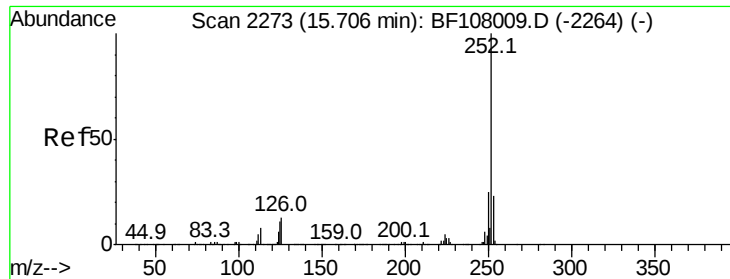


#88
Benzo(k)fluoranthene
Concen: 38.834 ng m
RT: 15.35 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	8.9	10.2	15.2#

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





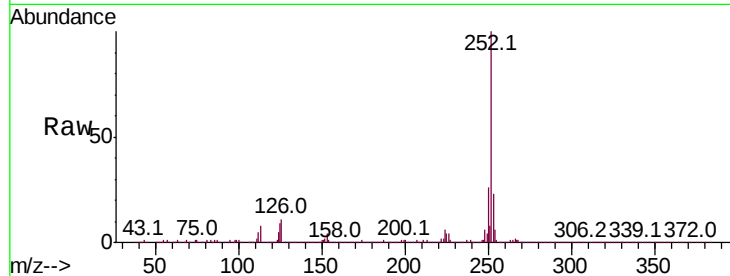
#89
Benzo(a)pyrene
Concen: 96.801 ng/ml
RT: 15.74 min Scan# 2278
Delta R.T. 0.03 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

Instrument :
BNA_F
ClientSampleId :
HD-02-081718

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	9.4	9.8	14.6

Manual Integrations
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Sohil
8/21/2018 1:43:14 PM

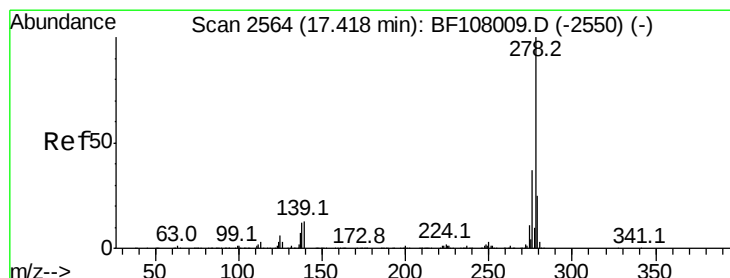
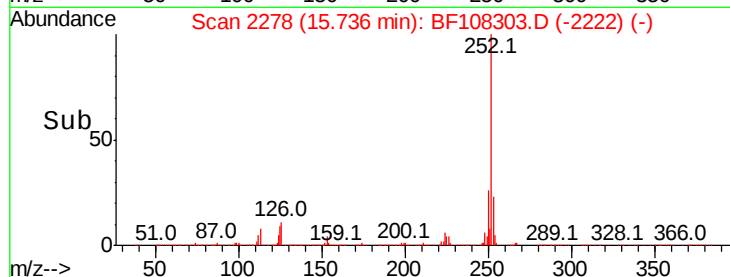
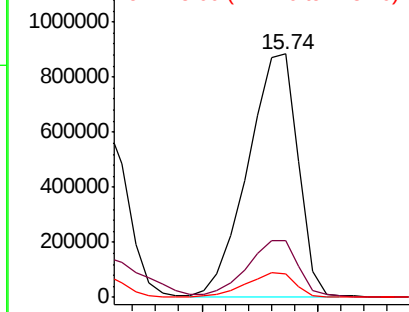


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90
Dibenzo(a,h)anthracene
Concen: 18.355 ng
RT: 17.44 min Scan# 2567
Delta R.T. 0.02 min
Lab File: BF108303.D
Acq: 20 Aug 2018 21:12

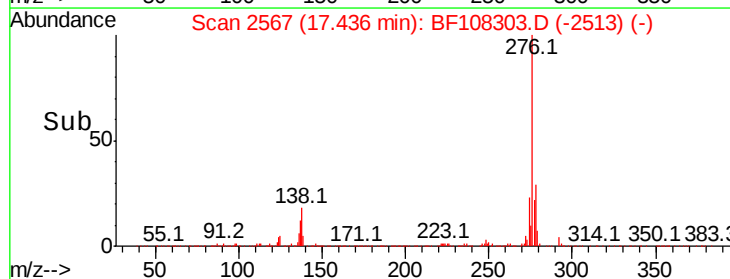
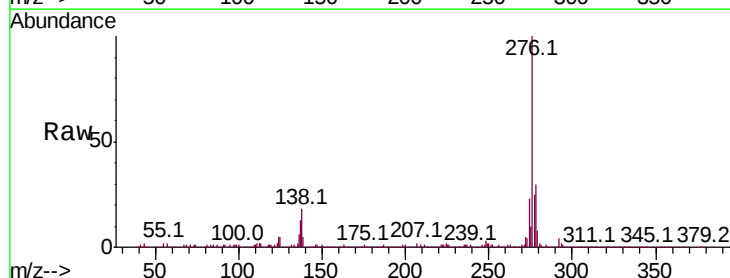
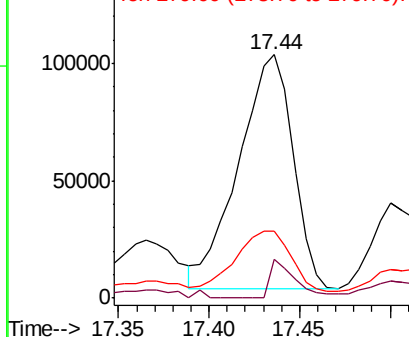
Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.9	15.9	23.9
279	27.3	19.0	28.4

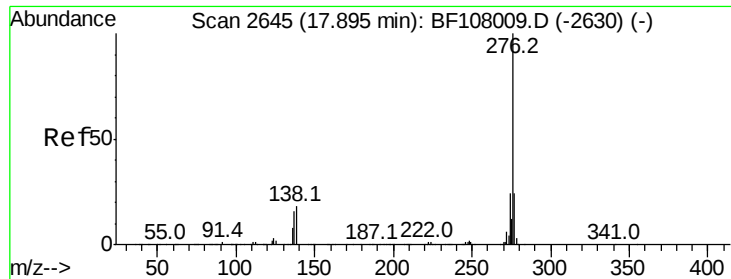
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 63.964 ng
 RT: 17.93 min Scan# 2651
 Delta R.T. 0.04 min
 Lab File: BF108303.D
 Acq: 20 Aug 2018 21:12

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-081718

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	20.1	21.8	32.8#

Manual Integrations
 APPROVED

Sohil
 8/21/2018 1:43:14 PM

