

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
 Data File : BF111551.D
 Acq On : 17 Dec 2018 20:54
 Operator : JU/SJ
 Sample : J6403-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-A

Manual Integrations
 APPROVED

Sohil
 12/18/2018 12:49:27 PM

Quant Time: Dec 18 06:32:18 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 14 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	126154	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	515870	20.00	ng	-0.01
39) Acenaphthene-d10	9.82	164	241044	20.00	ng	-0.01
64) Phenanthrene-d10	11.31	188	401762	20.00	ng	0.00
76) Chrysene-d12	13.95	240	244699	20.00	ng	0.00
87) Perylene-d12	15.39	264	253668	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	658470	86.86	ng	0.00
7) Phenol-d6	6.44	99	847852	84.08	ng	0.00
23) Nitrobenzene-d5	7.35	82	509115	58.77	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	172380	79.83	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	882158	56.53	ng	-0.01
79) Terphenyl-d14	12.89	244	628500	60.31	ng	0.00
Target Compounds						
10) Phenol	6.45	94	52520	4.675	ng	Qvalue 94
31) Naphthalene	8.09	128	308941	12.804	ng	95
37) 2-Methylnaphthalene	8.78	142	103630	6.347	ng	97
38) 1-Methylnaphthalene	8.88	142	84738	5.372	ng	98
50) Dimethylphthalate	9.54	163	104786	6.036	ng	97
52) Acenaphthene	9.86	154	262025	17.990	ng	99
55) Dibenzofuran	10.03	168	299174	14.151	ng	98
58) Fluorene	10.37	166	395767	25.809	ng	97
71) Phenanthrene	11.35	178	2891099	139.653	ng	96
72) Anthracene	11.39	178	815609	38.524	ng	95
73) Carbazole	11.54	167	312286	14.264	ng	95
75) Fluoranthene	12.53	202	2273331	112.248	ng	99
78) Pyrene	12.76	202	1833082	106.253	ng	98
81) Benzo(a)anthracene	13.94	228	814071	61.184	ng	98
83) Chrysene	13.98	228	697024	49.729	ng	97
86) Indeno(1,2,3-cd)pyrene	16.81	276	304601	30.111	ng	# 86
88) Benzo(b)fluoranthene	14.98	252	822226m	55.596	ng	
89) Benzo(k)fluoranthene	15.00	252	233613m	16.532	ng	
90) Benzo(a)pyrene	15.33	252	599035	44.917	ng	95
91) Dibenzo(a,h)anthracene	16.82	278	81051	7.704	ng	95
92) Benzo(g,h,i)perylene	17.23	276	258579	25.041	ng	# 93

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

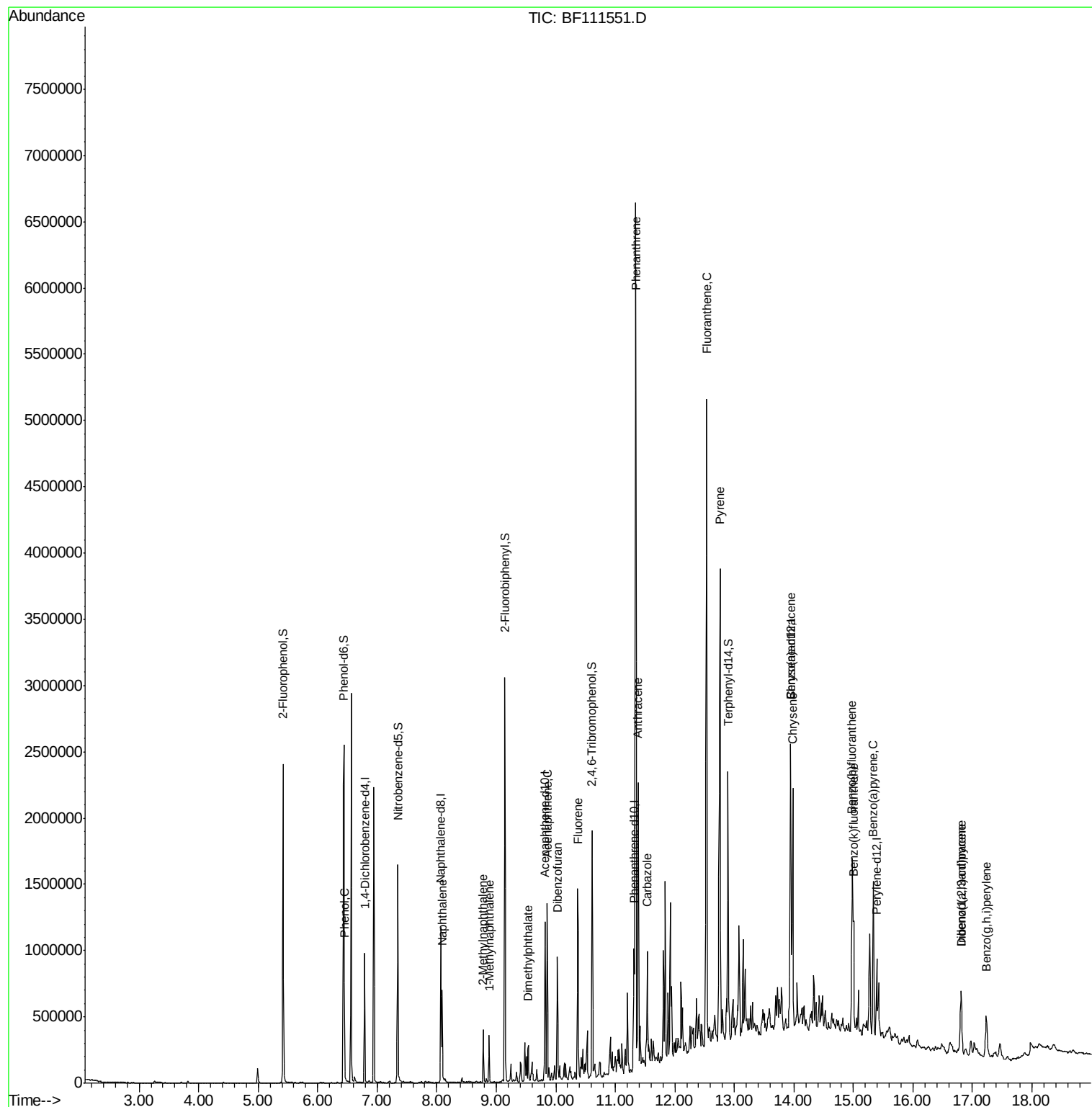
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121718\
Data File : BF111551.D
Acq On : 17 Dec 2018 20:54
Operator : JU/SJ
Sample : J6403-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

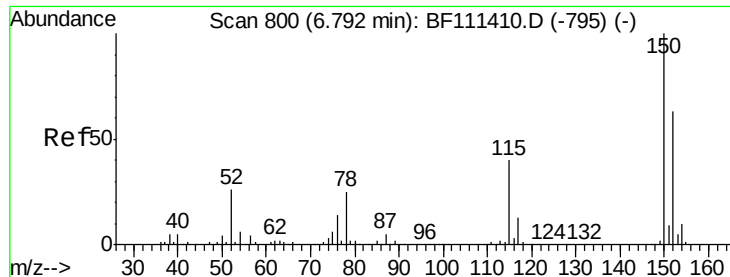
Instrument :
BNA_F
ClientSampleId :
TP-2-A

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12/18/2018 12:49:27 PM

Quant Time: Dec 18 06:32:18 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 14 13:26:17 2018
Response via : Initial Calibration





#1

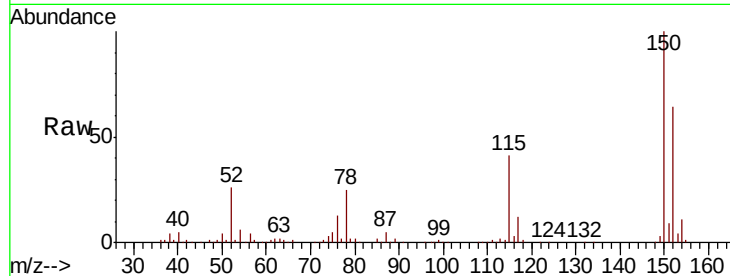
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 799
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampleId :
TP-2-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.6	189.8
115	63.3	50.7	76.1

Manual Integrations
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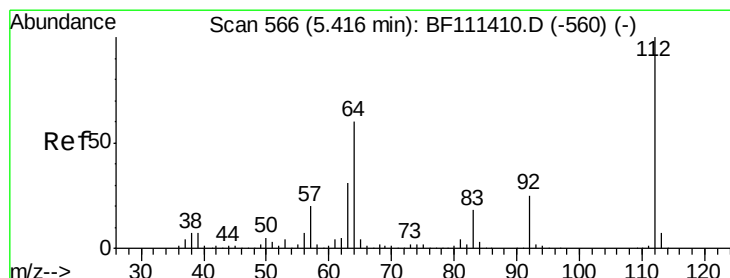
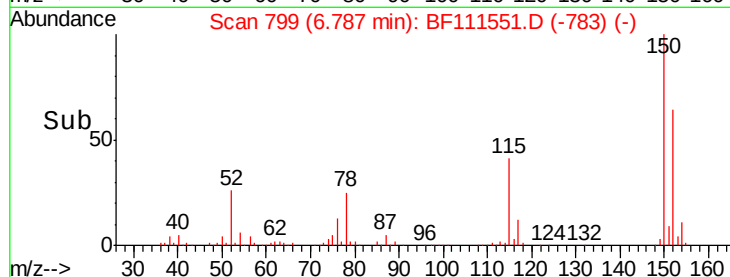
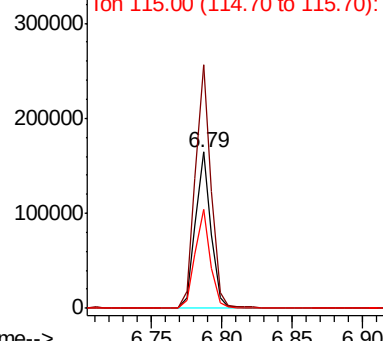


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

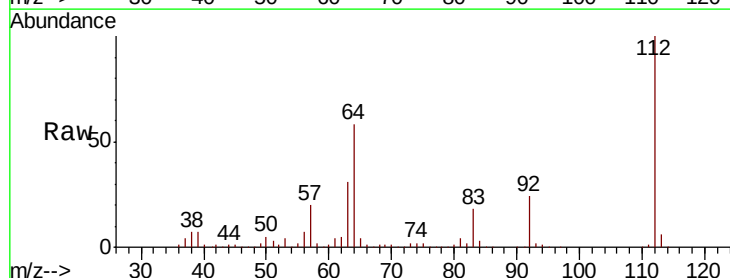
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 86.857 ng
RT: 5.42 min Scan# 567
Delta R.T. 0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.6	51.8	77.6
63	31.0	26.8	40.2

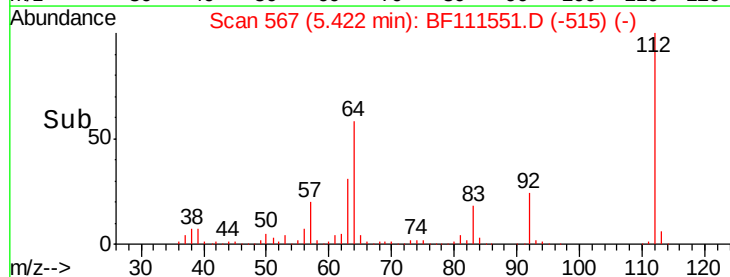
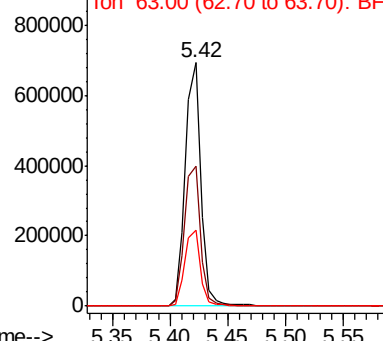


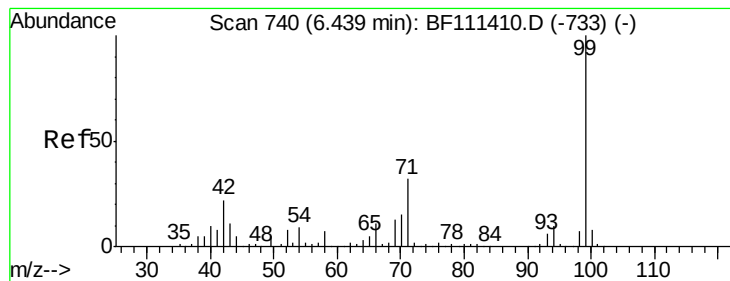
Abundance

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: 84.077 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Instrument :

BNA_F

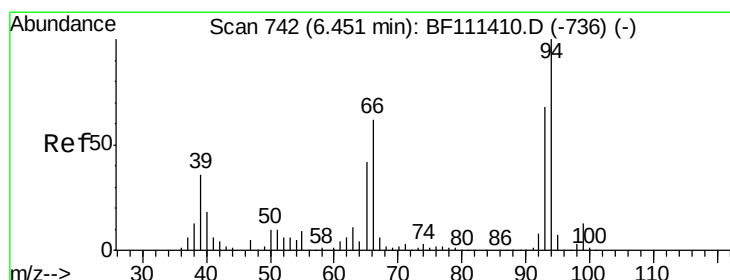
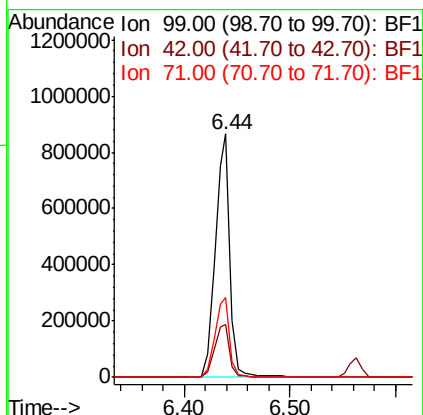
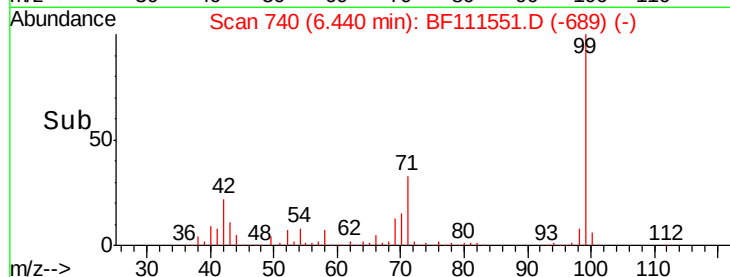
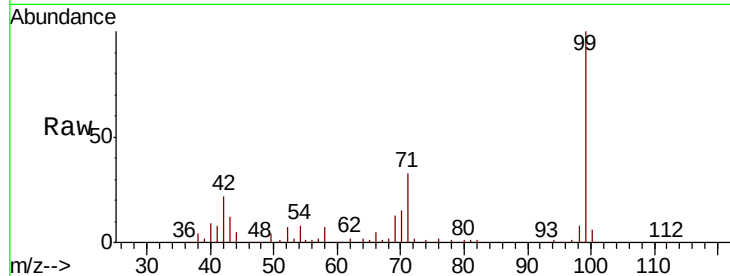
ClientSampled :

TP-2-A

Tot Ion:	99	Resp:	847852
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.4	26.0
71	32.9	26.1	39.1

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#10

Phenol

Concen: 4.675 ng

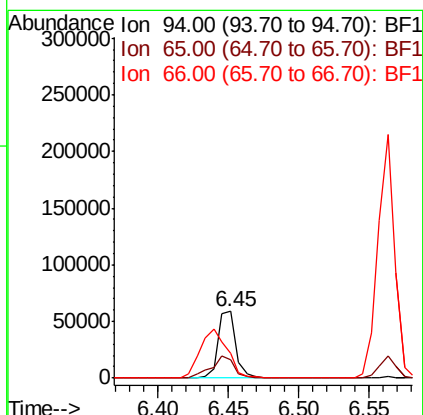
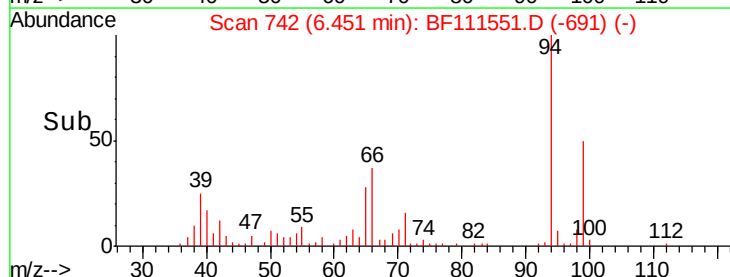
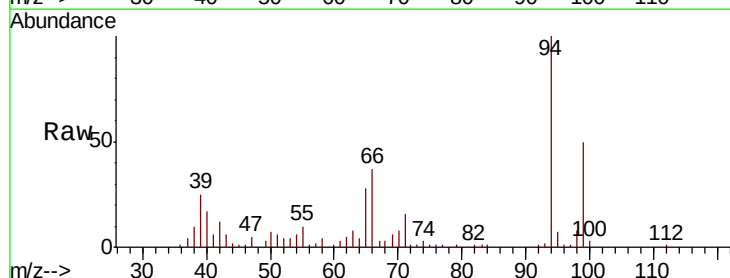
RT: 6.45 min Scan# 742

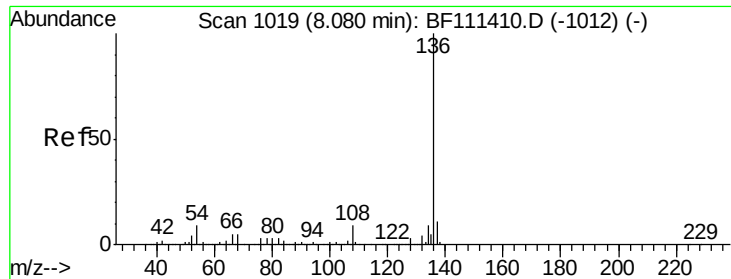
Delta R.T. 0.00 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Tgt Ion:	94	Resp:	52520
Ion	Ratio	Lower	Upper
94	100		
65	28.4	11.7	51.7
66	36.8	21.0	61.0





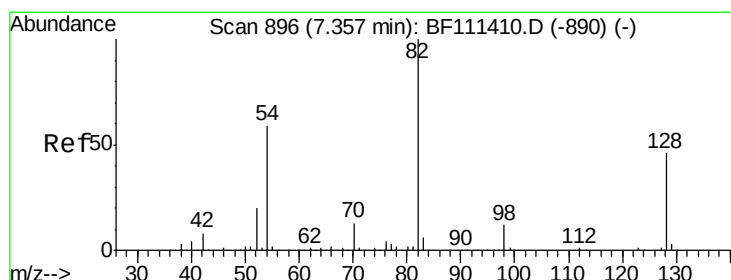
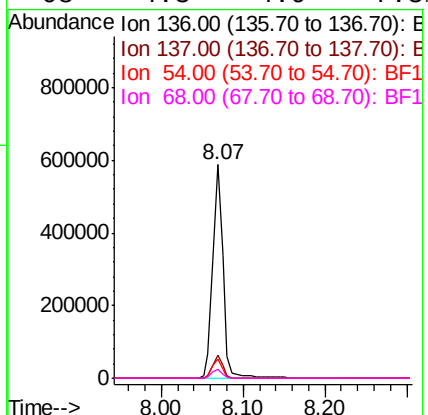
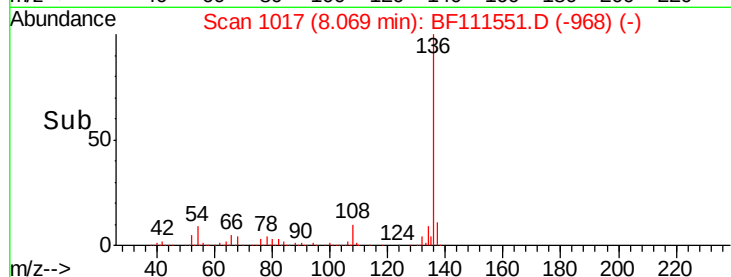
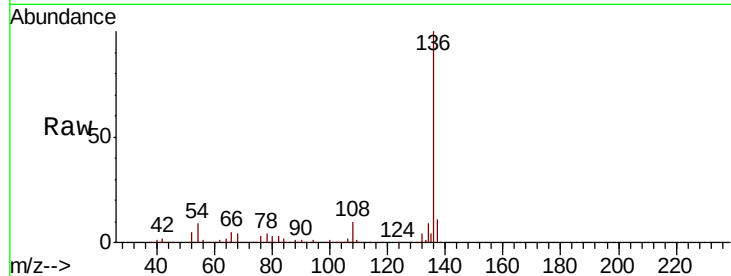
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampleId :
TP-2-A

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	9.1	13.7	
54	9.2	7.7	11.5	
68	4.3	4.9	7.3#	

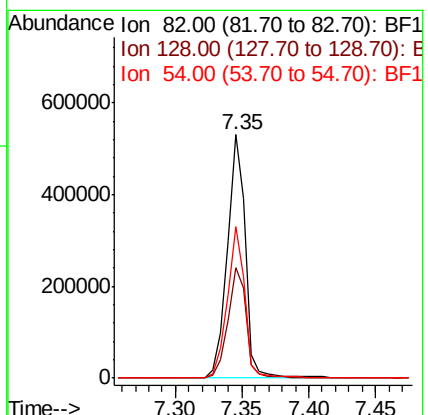
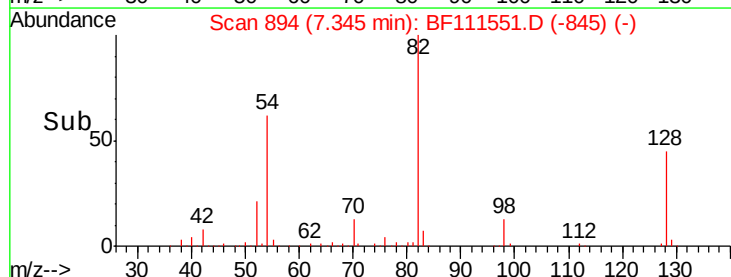
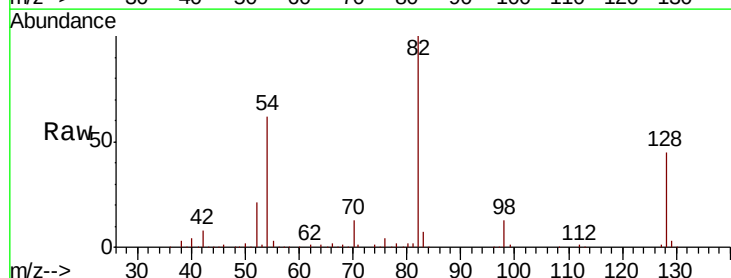
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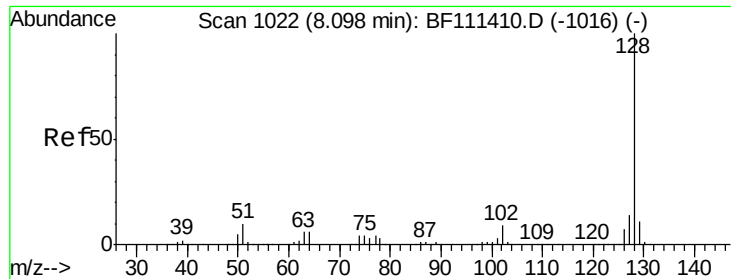
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#23
Nitrobenzene-d5
Concen: 58.769 ng
RT: 7.35 min Scan# 894
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.2	37.4	56.2	
54	62.0	47.6	71.4	





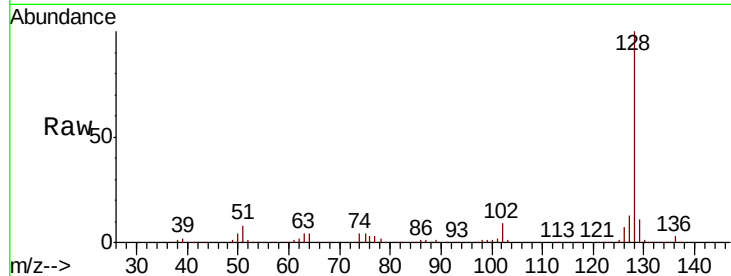
#31
Naphthalene
Concen: 12.804 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampleId :
TP-2-A

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.5	9.8	14.8
127	12.6	12.0	18.0

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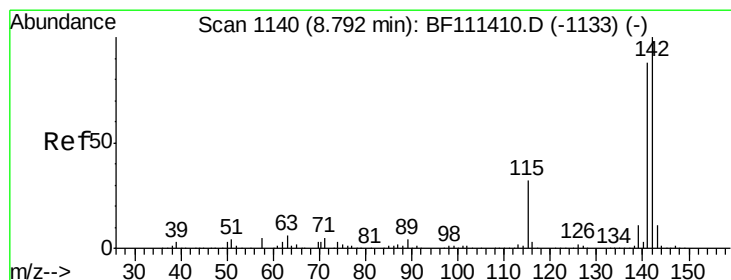
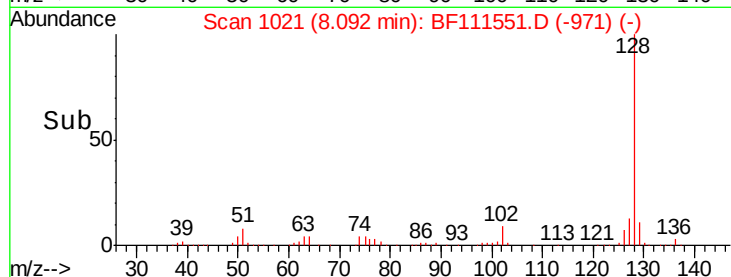
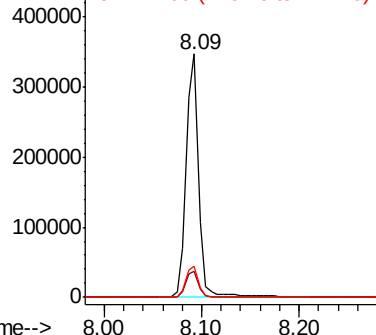


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37
2-Methylnaphthalene
Concen: 6.347 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

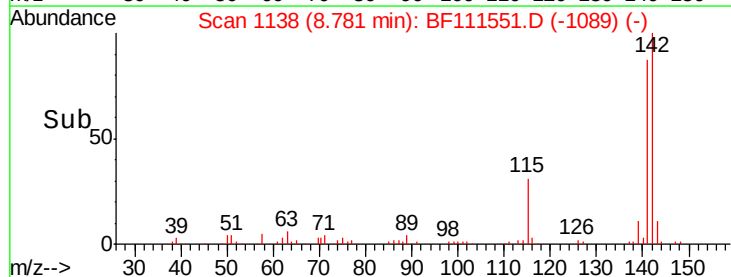
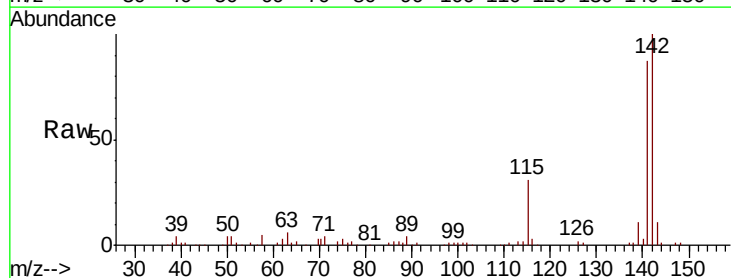
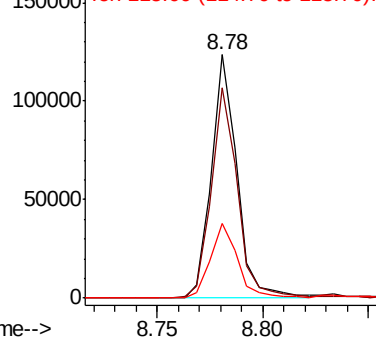
Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.5	70.6	105.8
115	30.5	27.0	40.6

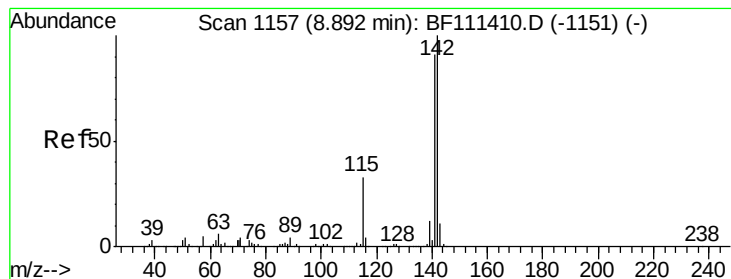
Abundance

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





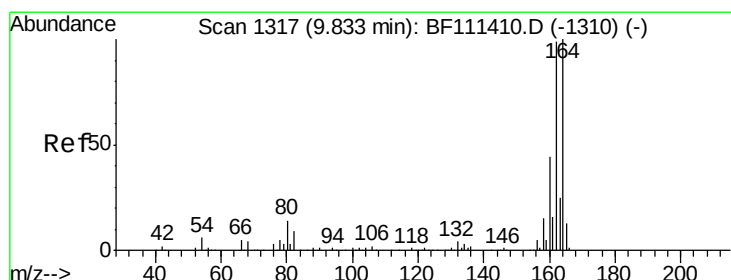
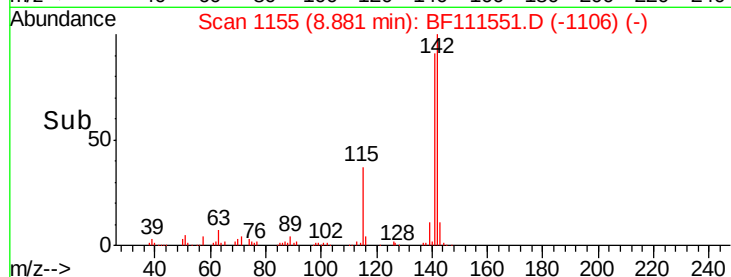
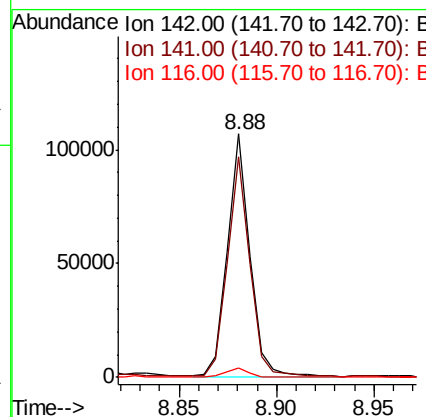
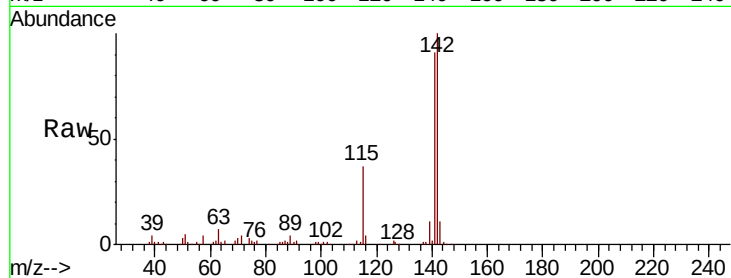
#38
1-Methylnaphthalene
Concen: 5.372 ng
RT: 8.88 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampled :
TP-2-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	74.2	111.4
116	4.0	2.9	4.3

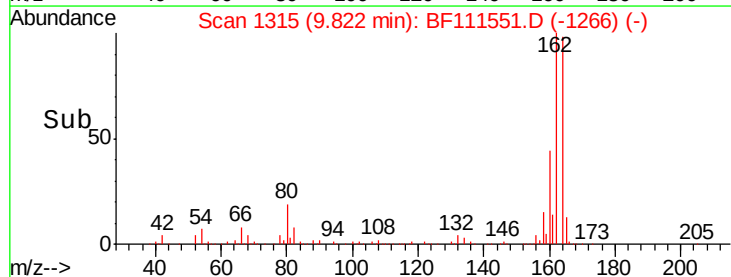
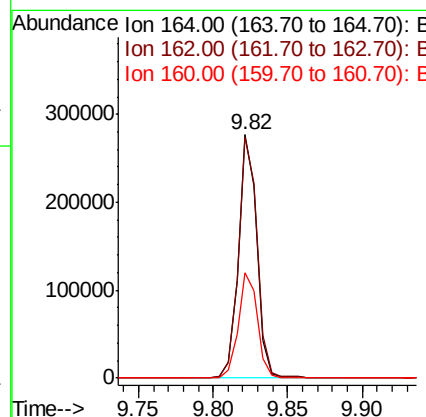
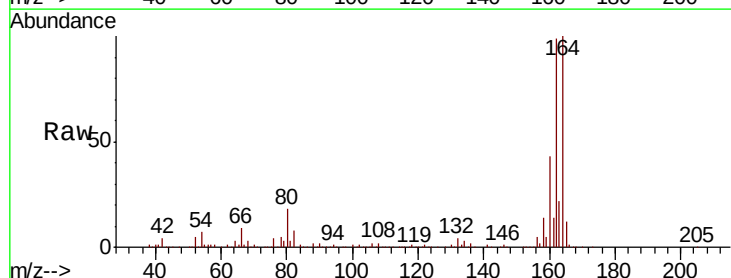
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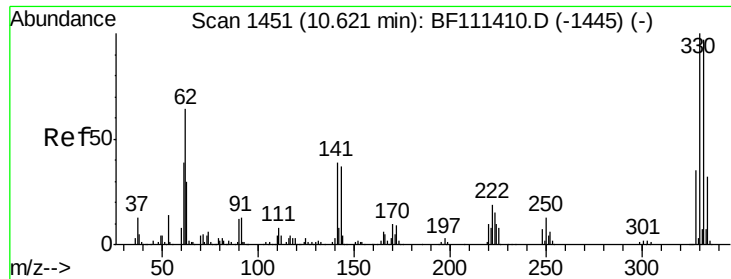
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1315
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.0	81.4	122.0
160	43.3	35.7	53.5





#42

2,4,6-Tribromophenol

Concen: 79.834 ng

RT: 10.62 min Scan# 1450

Delta R.T. -0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Instrument :

BNA_F

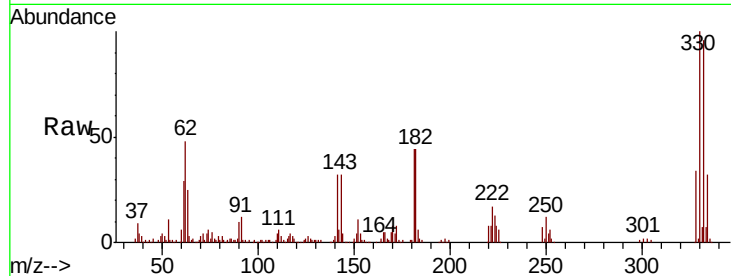
ClientSampled :

TP-2-A

Tot Ion:	330	Resp:	172380
Ion Ratio	Lower	Upper	
330	100		
332	97.3	76.0	114.0
141	40.1	31.0	46.6

Manual Integrations
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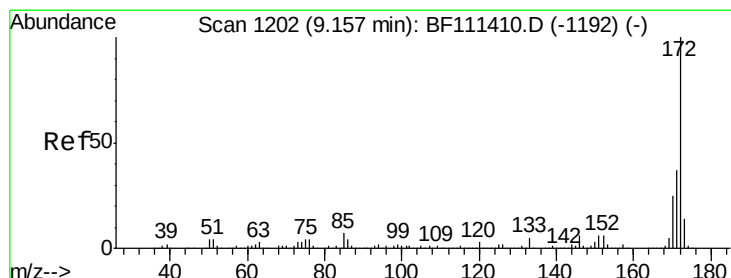
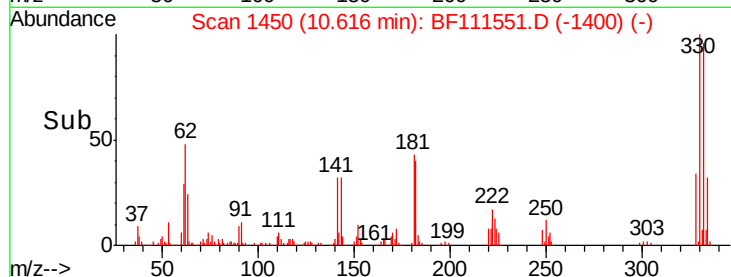
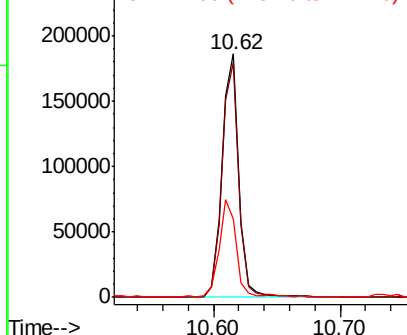


Abundance

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



#45

2-Fluorobiphenyl

Concen: 56.530 ng

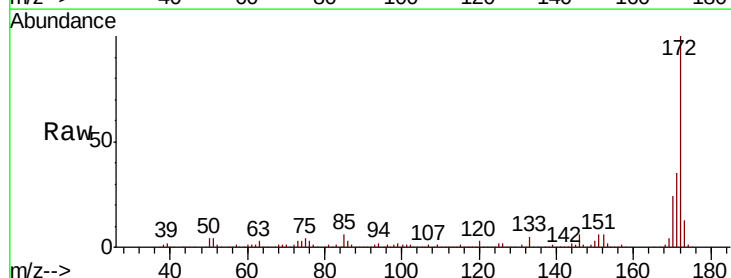
RT: 9.15 min Scan# 1200

Delta R.T. -0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Tgt Ion:	172	Resp:	882158
Ion Ratio	Lower	Upper	
172	100		
171	35.0	33.0	49.4
170	23.9	22.3	33.5

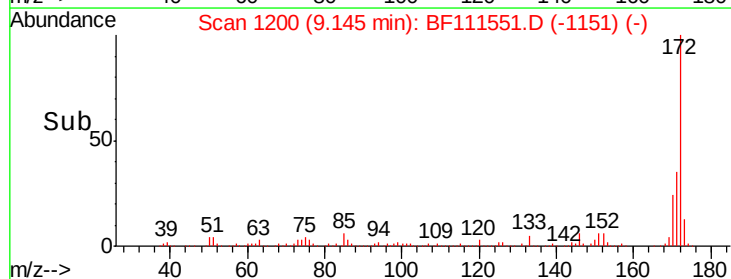
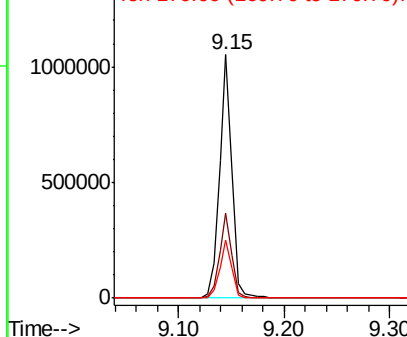


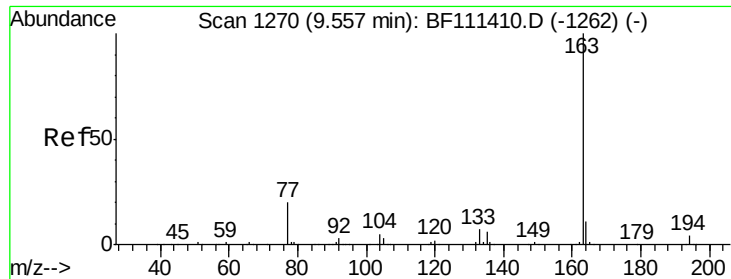
Abundance

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





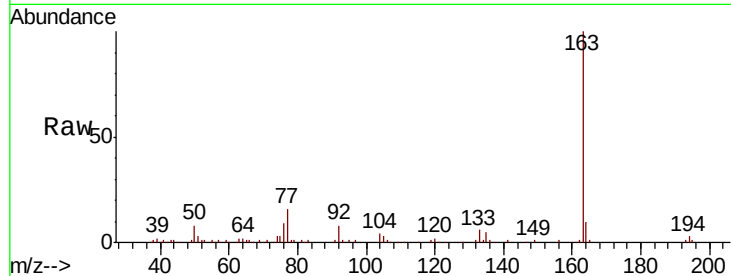
#50
Dimethylphthalate
Concen: 6.036 ng
RT: 9.54 min Scan# 1267
Delta R.T. -0.02 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampled :
TP-2-A

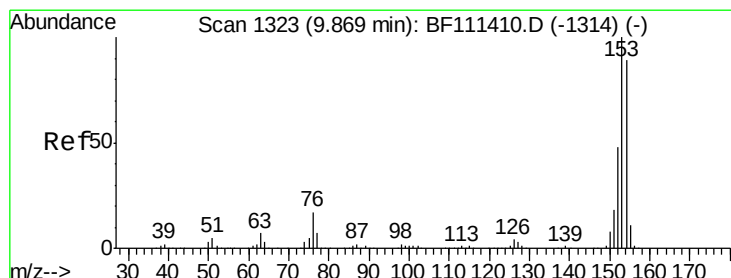
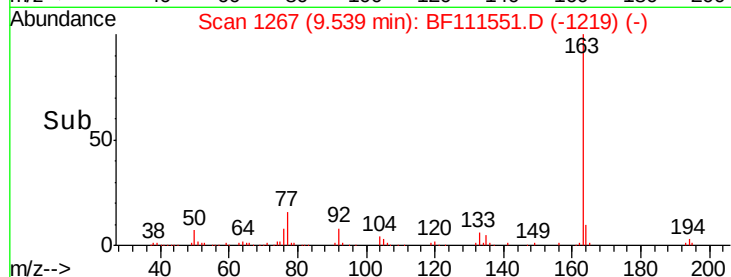
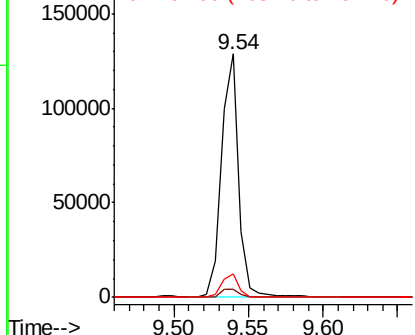
Tot Ion	Ratio	Resp	Lower	Upper
163	100	104786		
194	3.3		3.0	4.6
164	9.8		8.9	13.3

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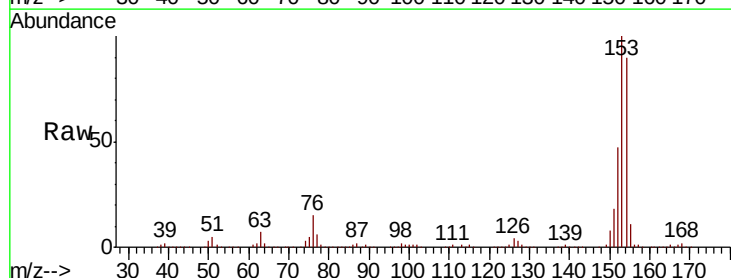


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

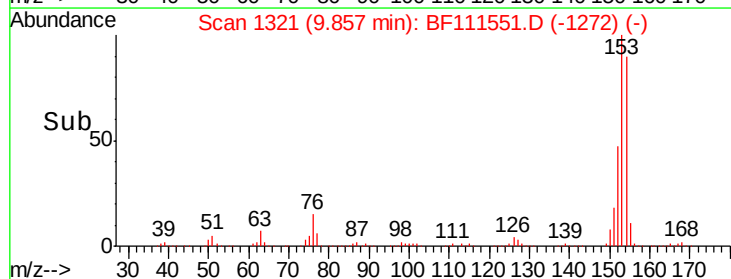
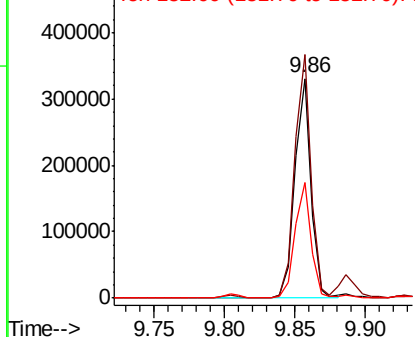


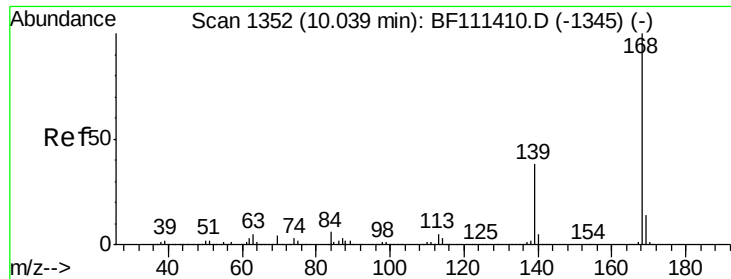
#52
Acenaphthene
Concen: 17.990 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	262025		
153	111.0		87.8	131.8
152	52.7		43.4	65.2



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





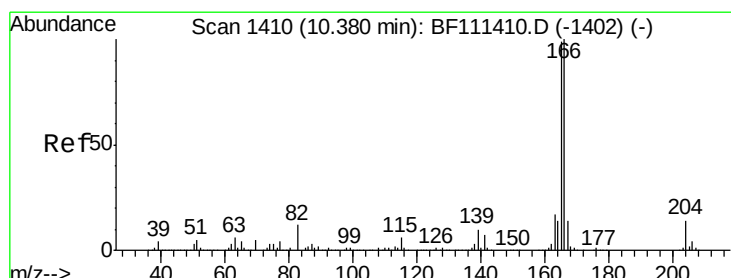
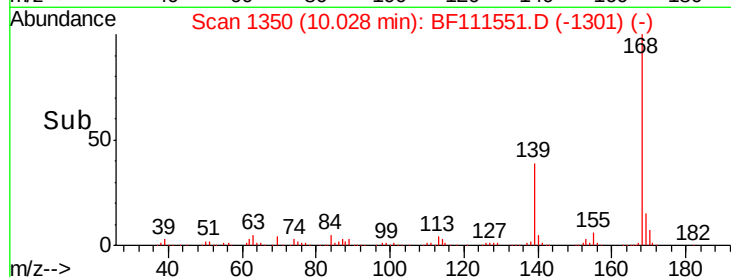
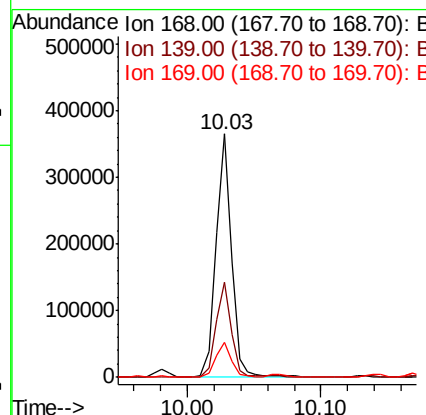
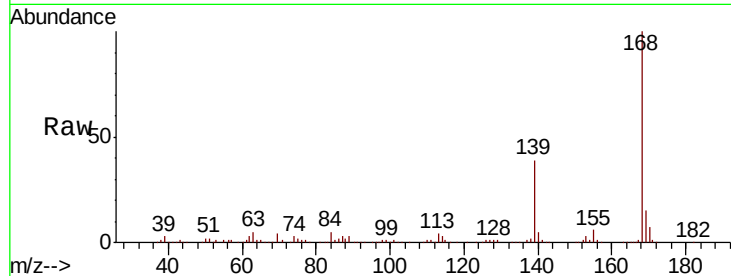
#55
Dibenzofuran
Concen: 14.151 ng
RT: 10.03 min Scan# 1350
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampled :
TP-2-A

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.0	32.6	49.0
169	14.6	11.8	17.6

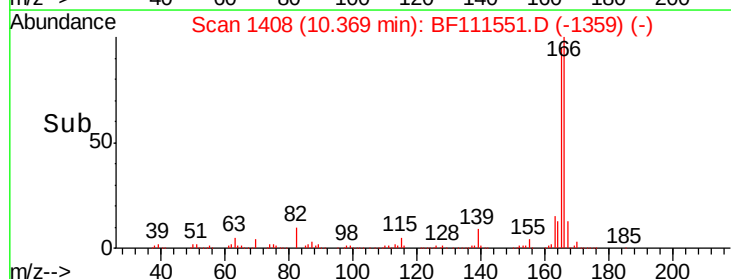
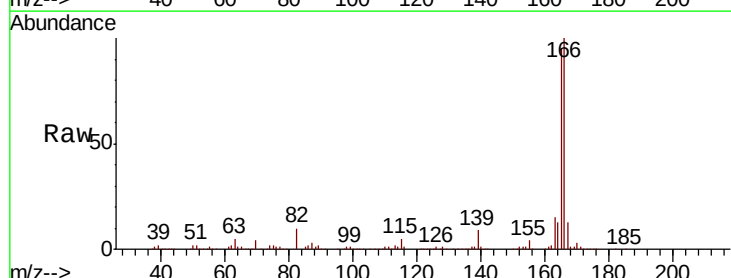
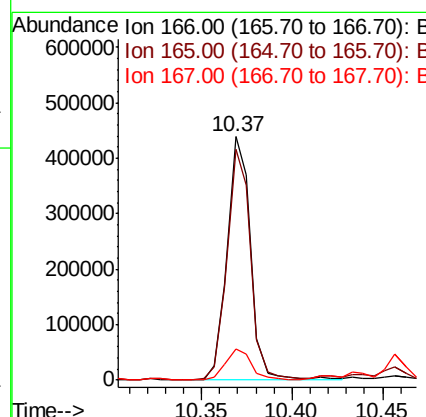
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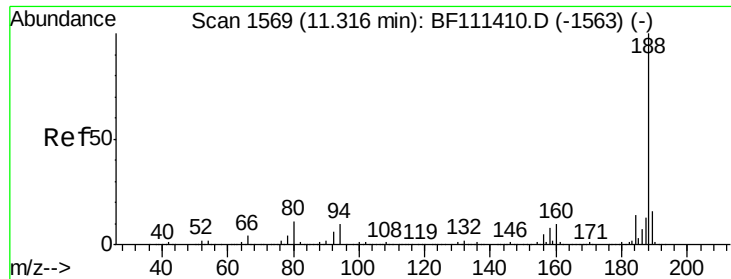
Sohil
12/18/2018 12:49:27 PM



#58
Fluorene
Concen: 25.809 ng
RT: 10.37 min Scan# 1408
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.0	78.4	117.6
167	12.9	11.2	16.8





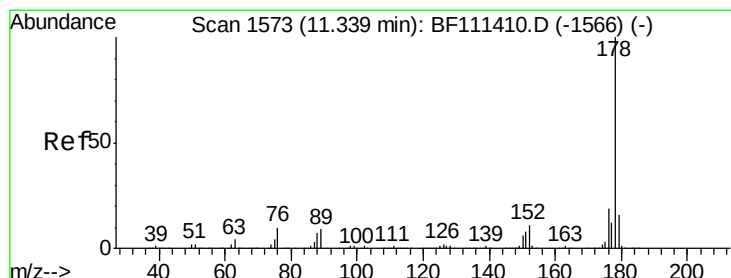
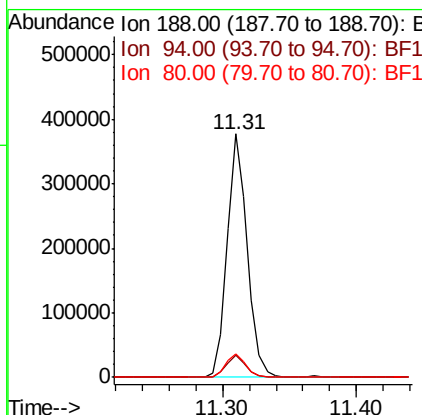
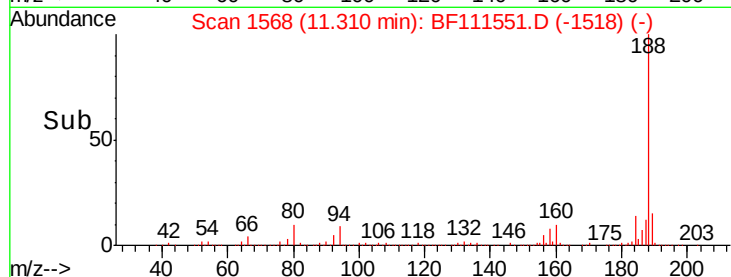
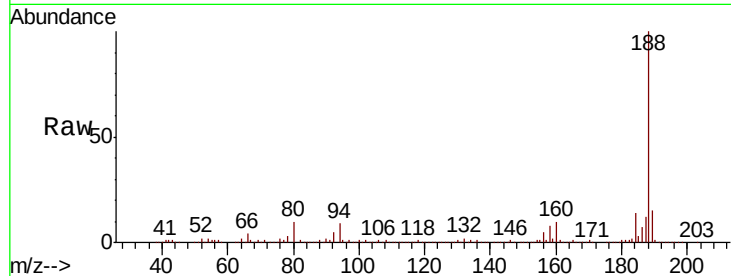
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF111551.D
 Acq: 17 Dec 2018 20:54

Instrument :
 BNA_F
 ClientSampled :
 TP-2-A

Tot Ion	Ratio	Resp	Lower	Upper
188	100	401762		
94	9.4		9.6	14.4#
80	9.6		9.8	14.6#

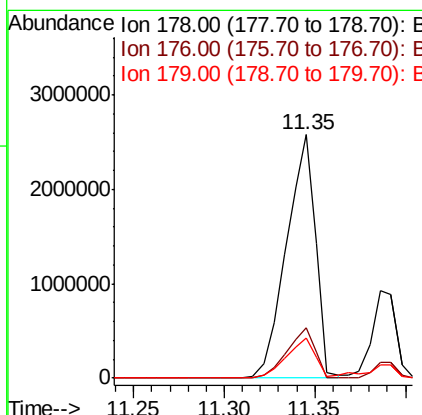
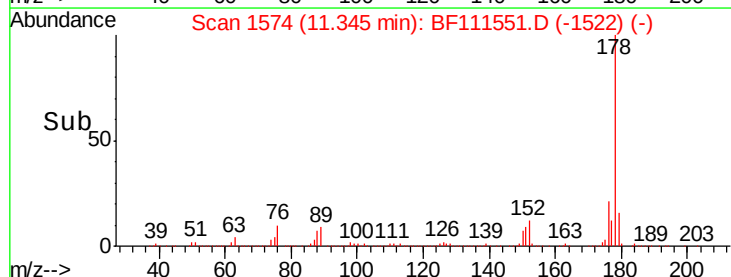
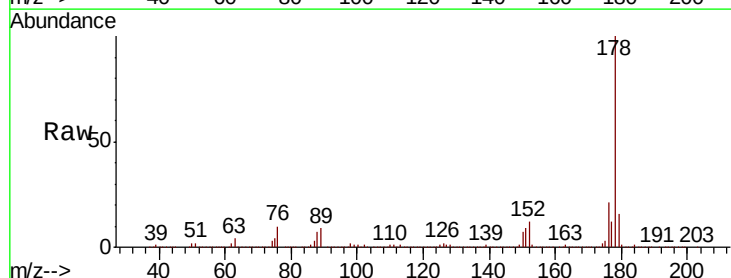
Manual Integrations
 APPROVED

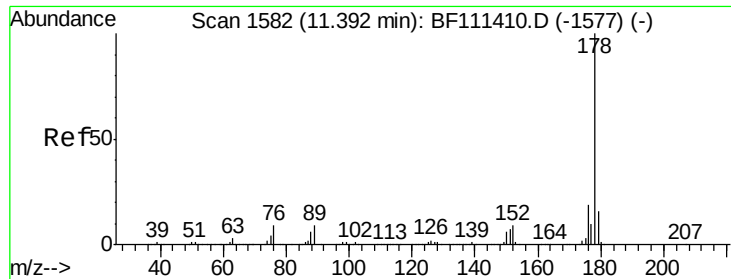
Sohil
 12/18/2018 12:49:27 PM



#71
 Phenanthrene
 Concen: 139.653 ng
 RT: 11.35 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF111551.D
 Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2891099		
176	20.6		18.1	27.1
179	16.3		14.0	21.0





#72

Anthracene

Concen: 38.524 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Instrument :

BNA_F

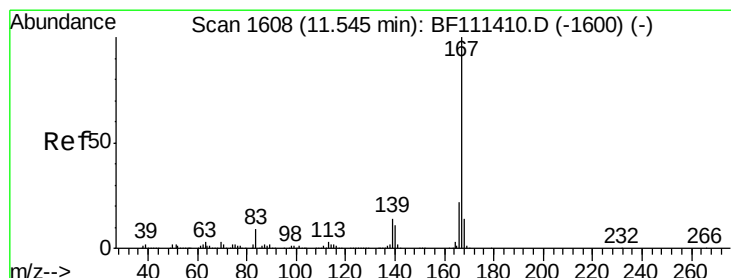
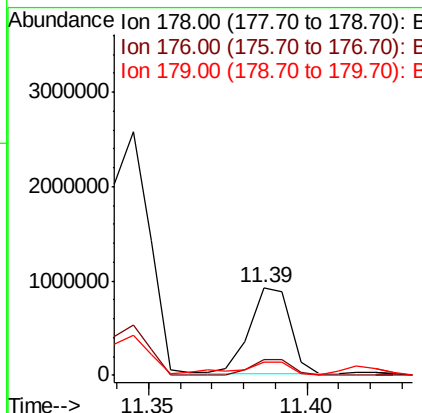
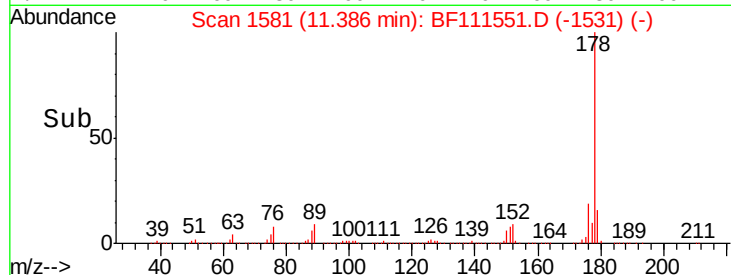
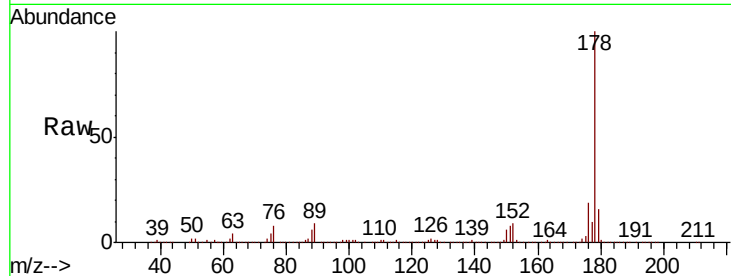
ClientSampled :

TP-2-A

Tot Ion:	178	Resp:	815609
Ion Ratio	Lower	Upper	
178	100		
176	18.6	17.2	25.8
179	15.6	13.8	20.8

Manual Integrations
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12/18/2018 12:49:27 PM



#73

Carbazole

Concen: 14.264 ng

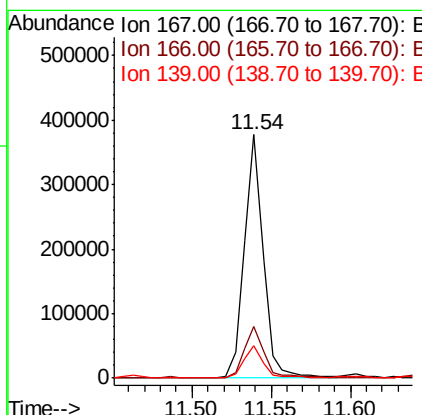
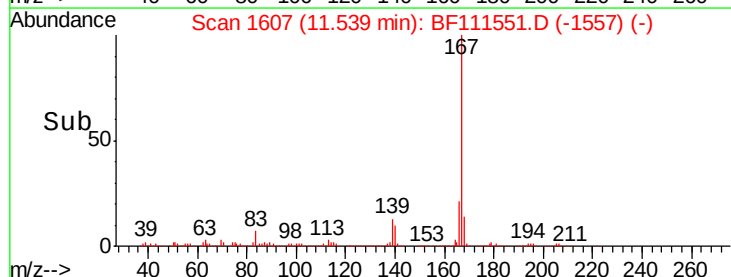
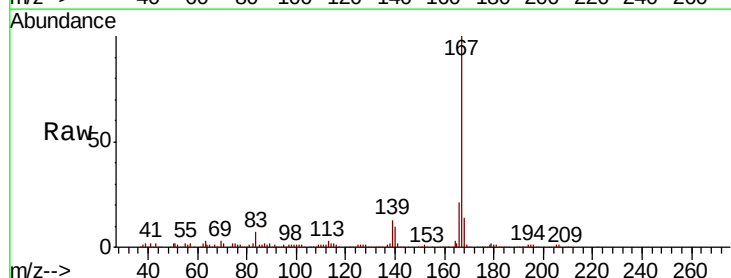
RT: 11.54 min Scan# 1607

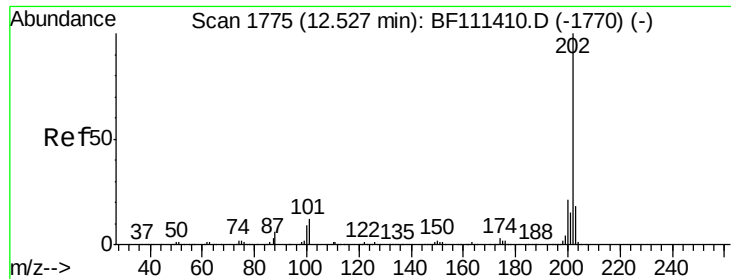
Delta R.T. -0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Tgt Ion:	167	Resp:	312286
Ion Ratio	Lower	Upper	
167	100		
166	21.2	19.3	28.9
139	13.2	11.9	17.9





#75

Fluoranthene

Concen: 112.248 ng

RT: 12.53 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Instrument :

BNA_F

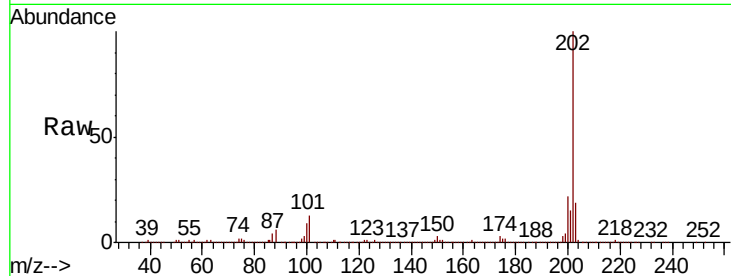
ClientSampled :

TP-2-A

Tot Ion:	202	Resp:	2273331
Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.8
203	18.5	0.0	38.6

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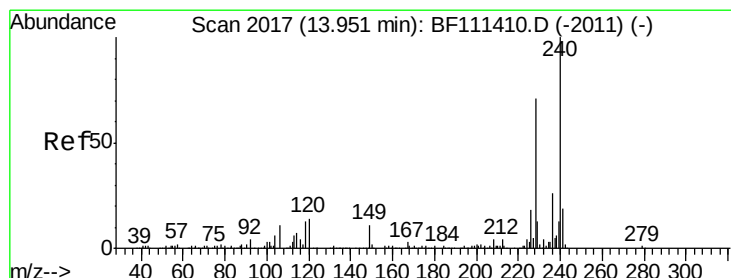
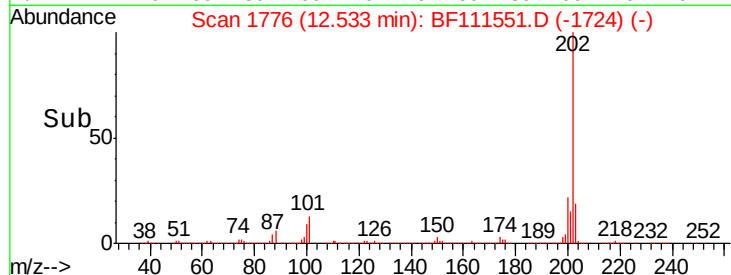
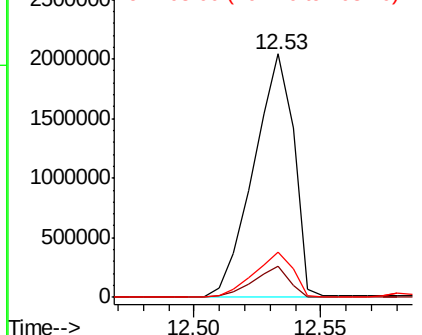


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

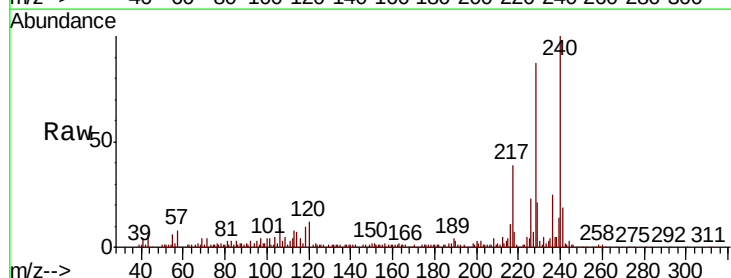
RT: 13.95 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Tgt Ion:	240	Resp:	244699
Ion	Ratio	Lower	Upper
240	100		
120	12.2	12.2	18.2
236	25.3	20.2	30.2

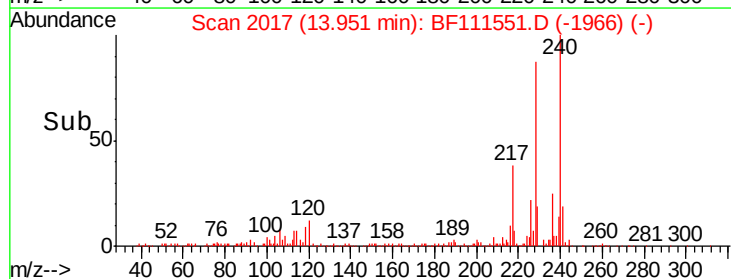
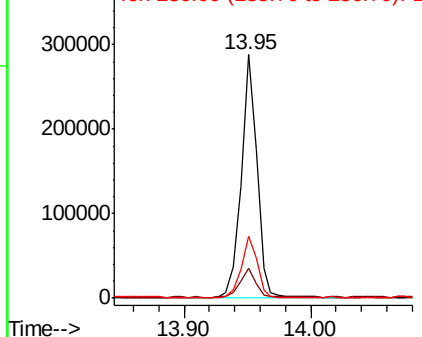


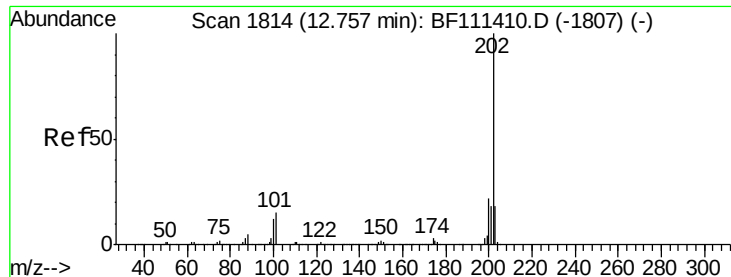
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 106.253 ng

RT: 12.76 min Scan# 1815

Delta R.T. 0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

Instrument :

BNA_F

ClientSampleId :

TP-2-A

Tot Ion:202 Resp: 1833082

Ion Ratio Lower Upper

202 100

200 22.1 19.0 28.4

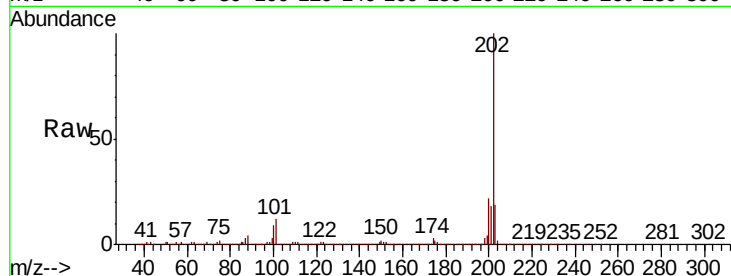
203 18.6 15.2 22.8

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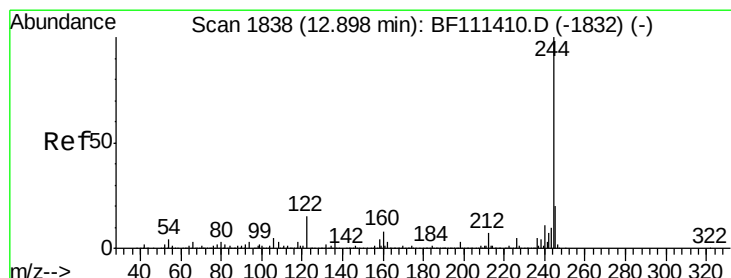
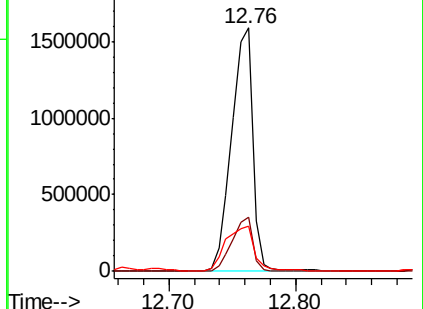
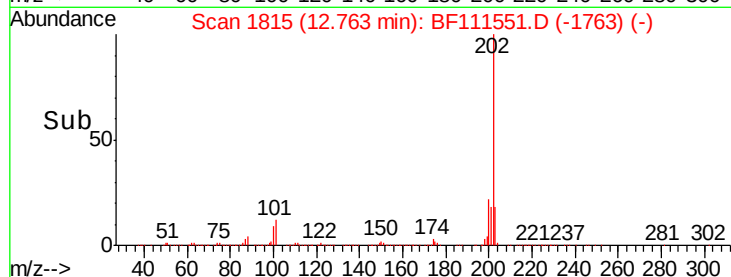
12/18/2018 12:49:27 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 60.314 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF111551.D

Acq: 17 Dec 2018 20:54

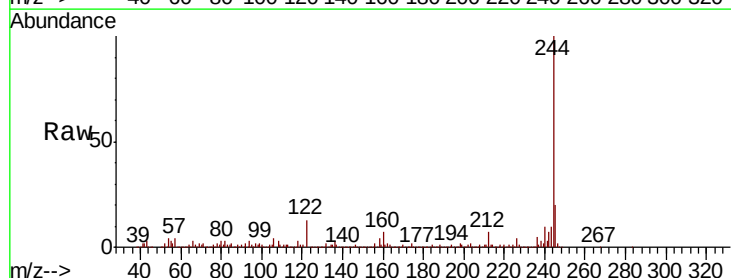
Tgt Ion:244 Resp: 628500

Ion Ratio Lower Upper

244 100

212 7.0 5.7 8.5

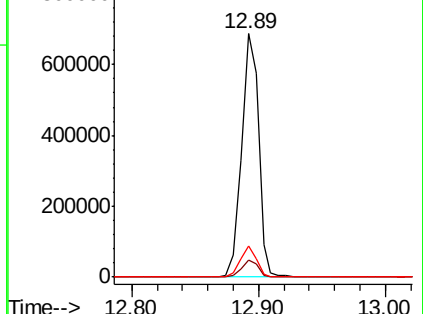
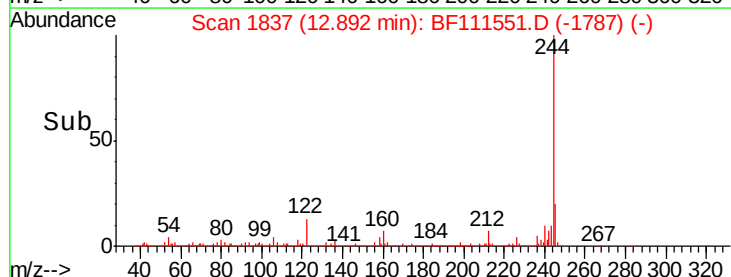
122 12.8 13.1 19.7#

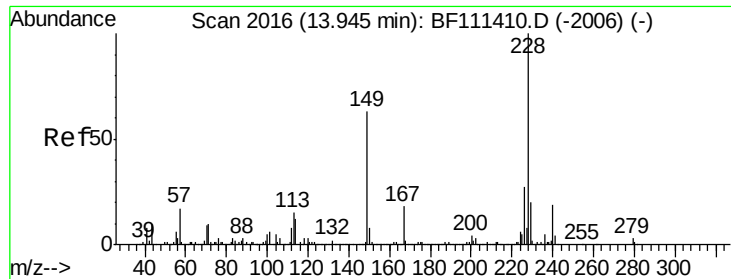


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





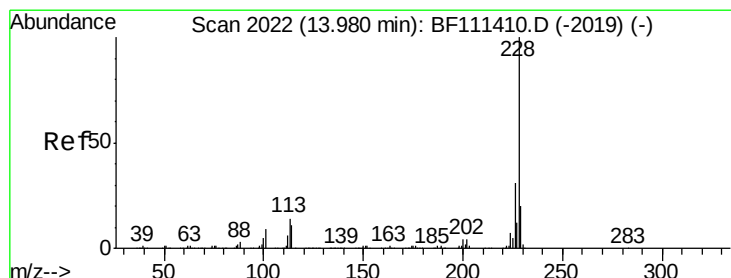
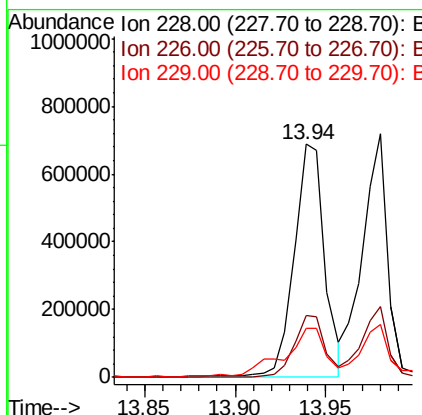
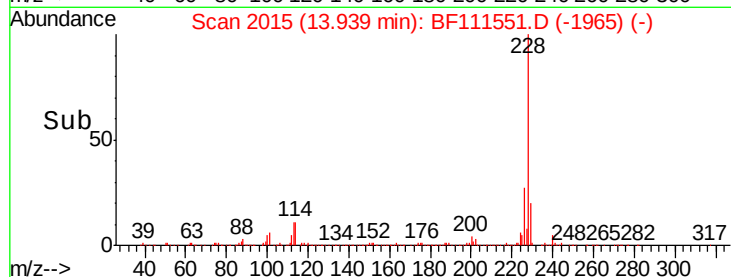
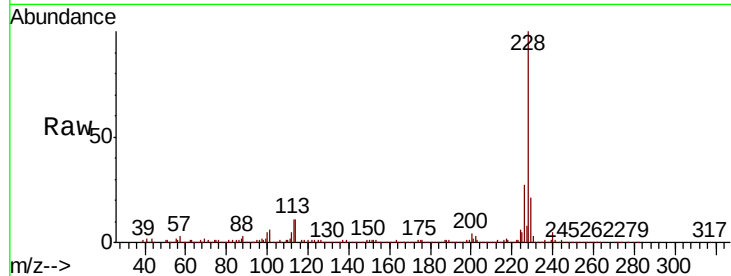
#81
Benzo(a)anthracene
Concen: 61.184 ng
RT: 13.94 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampled :
TP-2-A

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.6	34.0
229	20.9	16.3	24.5

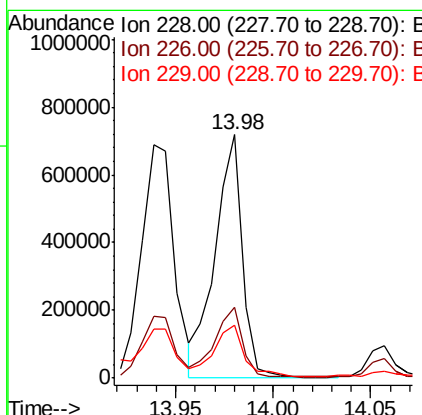
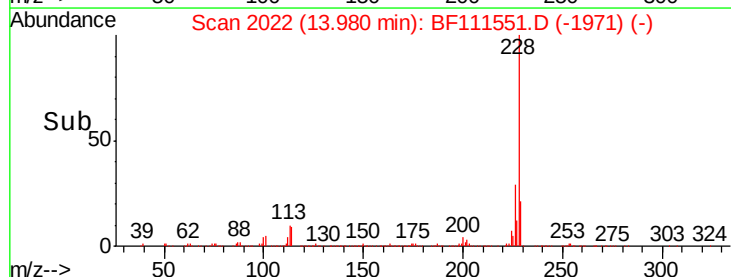
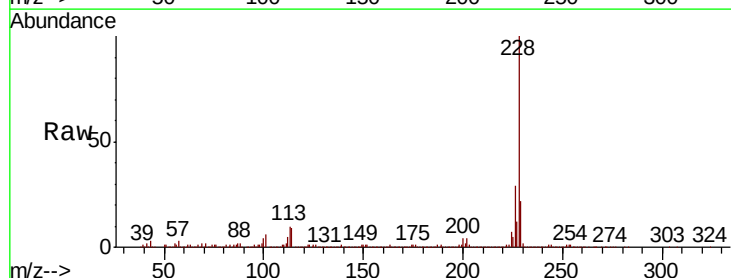
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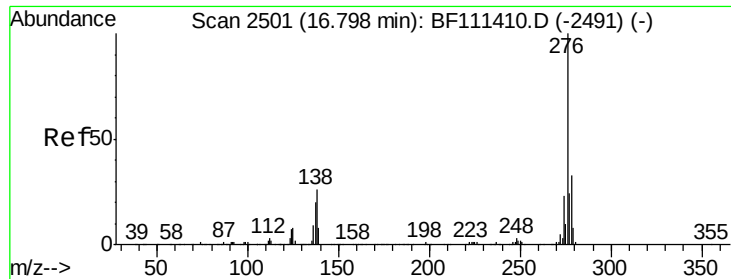
Sohil
12/18/2018 12:49:27 PM



#83
Chrysene
Concen: 49.729 ng
RT: 13.98 min Scan# 2022
Delta R.T. 0.00 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	25.3	37.9
229	21.5	17.2	25.8





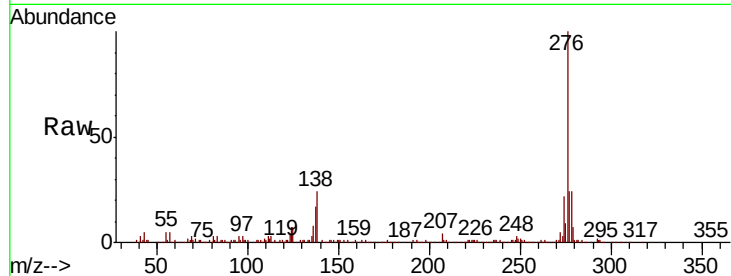
#86
Indeno(1,2,3-cd)pyrene
Concen: 30.111 ng
RT: 16.81 min Scan# 2503
Delta R.T. 0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampleId :
TP-2-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.6	27.8	41.6#
277	23.4	20.1	30.1

Manual Integrations
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Sohil
12/18/2018 12:49:27 PM

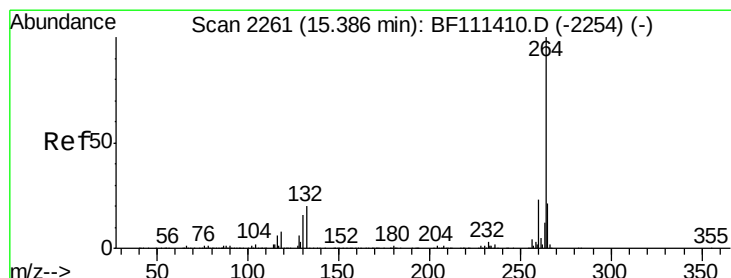
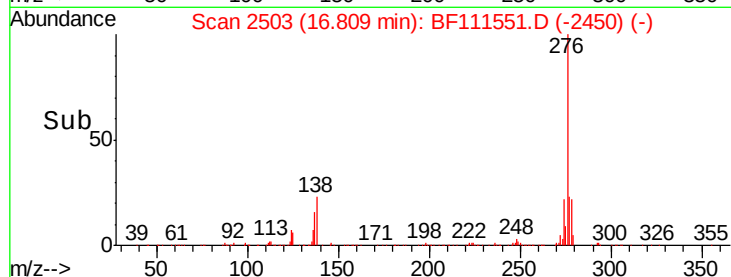
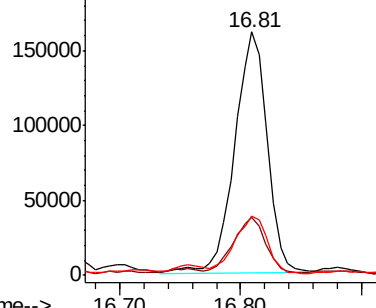


Abundance

Ion 276.00 (275.70 to 276.70): E

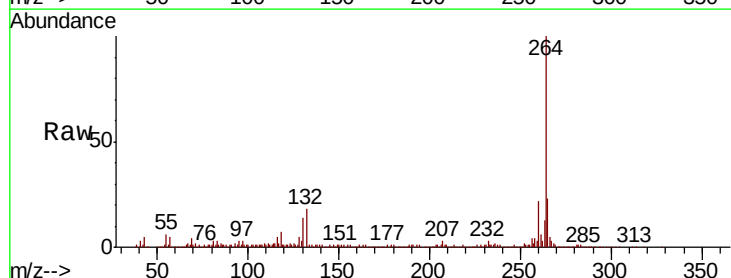
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.39 min Scan# 2262
Delta R.T. 0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Lower	Upper
264	100		
260	21.7	18.3	27.5
265	23.1	17.7	26.5

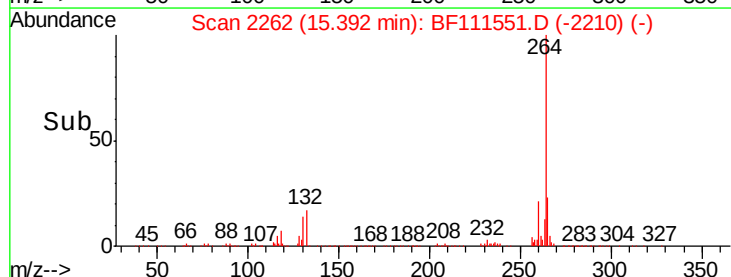
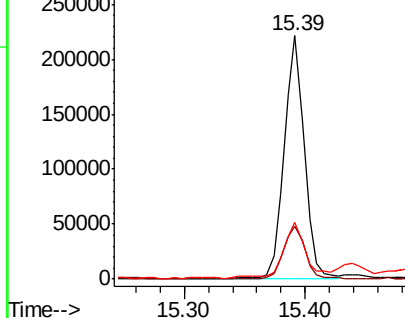


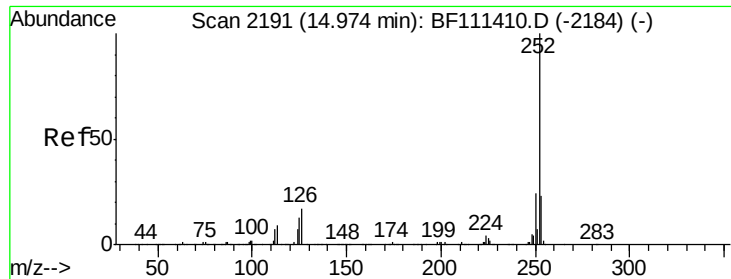
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





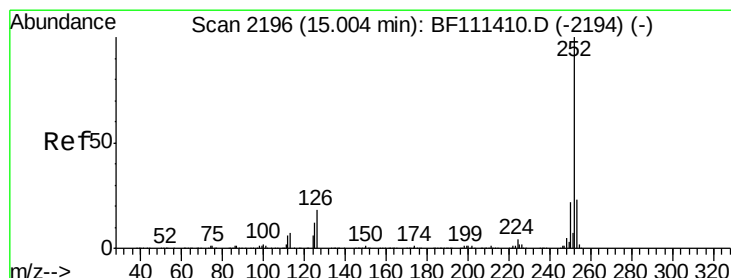
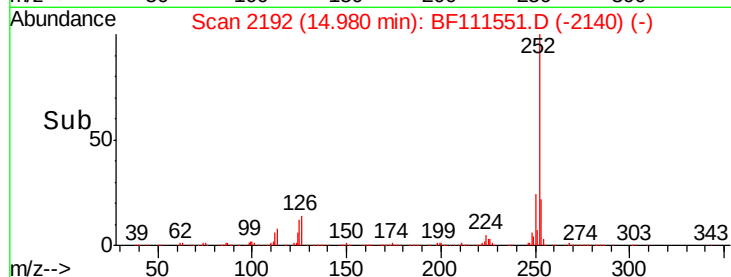
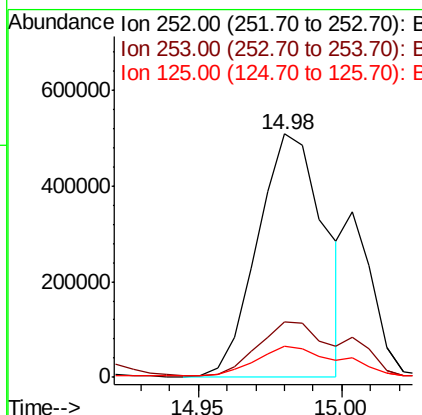
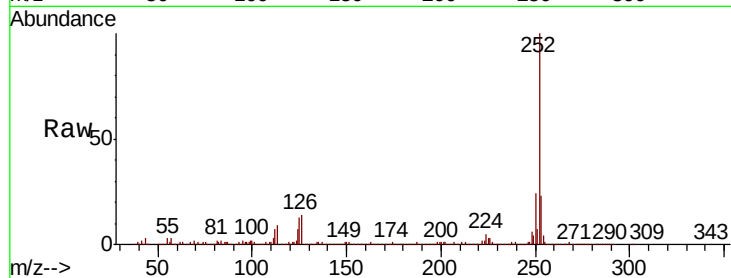
#88
Benzo(b)fluoranthene
Concen: 55.596 ng m
RT: 14.98 min Scan# 2192
Delta R.T. 0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampled :
TP-2-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	12.6	10.4	15.6

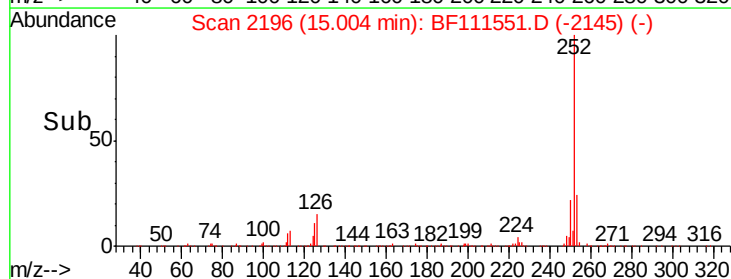
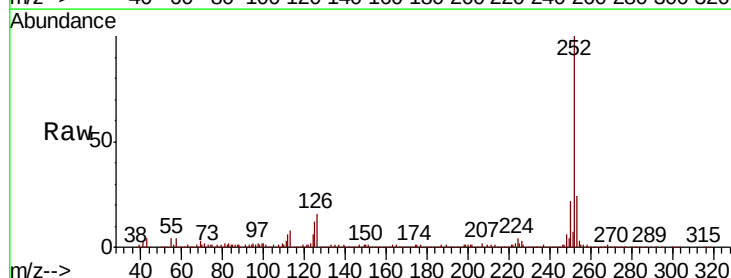
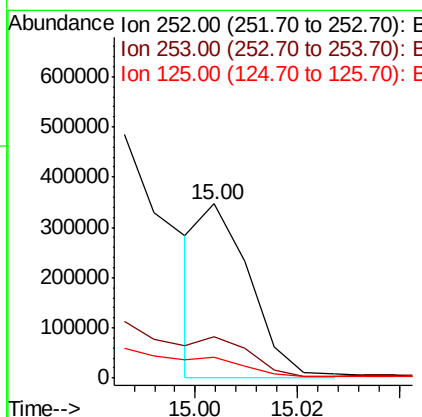
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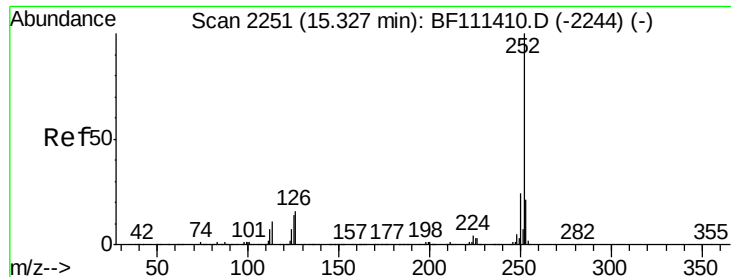
Sohil
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#89
Benzo(k)fluoranthene
Concen: 16.532 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.00 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.1	27.1
125	11.7	9.8	14.8





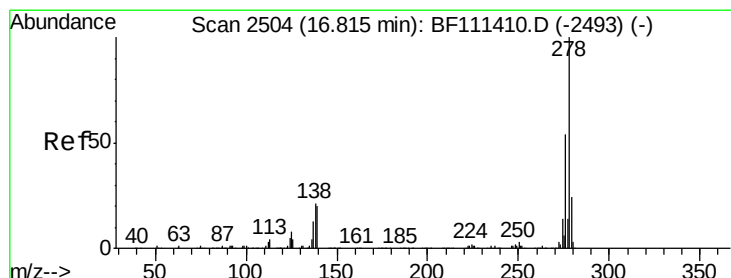
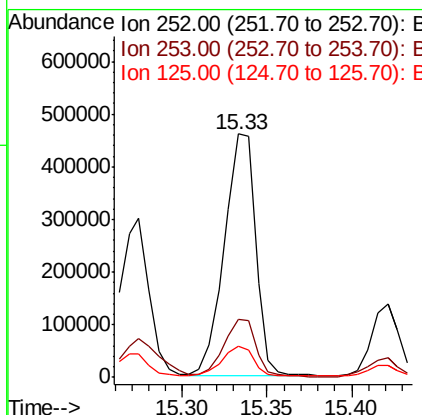
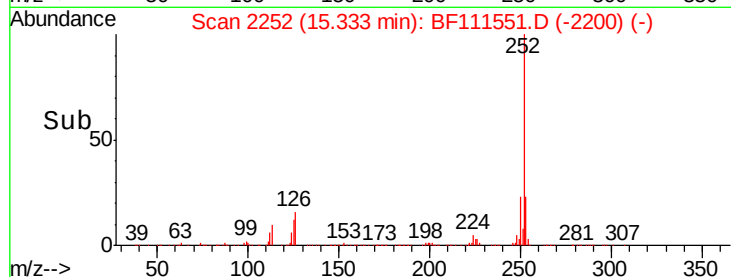
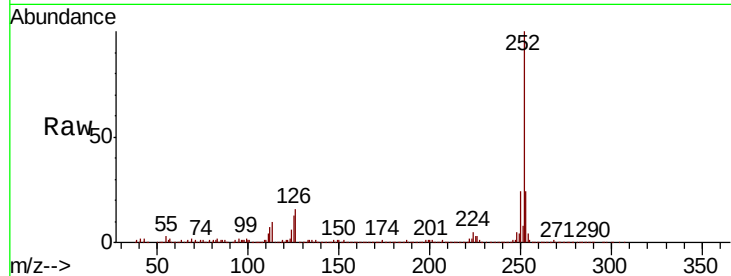
#90
Benzo(a)pyrene
Concen: 44.917 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Instrument :
BNA_F
ClientSampled :
TP-2-A

Tot Ion:	252	Resp:	599035
Ion Ratio	Lower	Upper	
252	100		
253	23.9	17.8	26.8
125	12.8	12.3	18.5

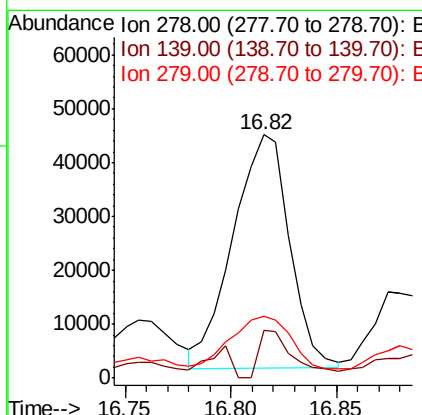
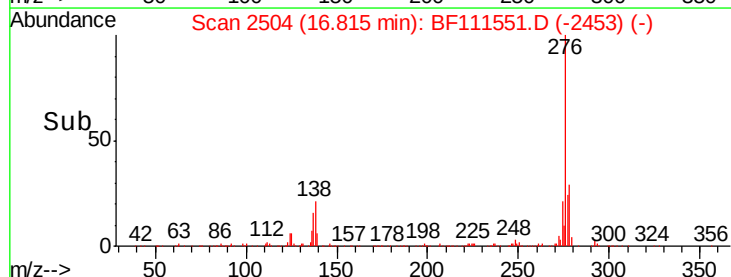
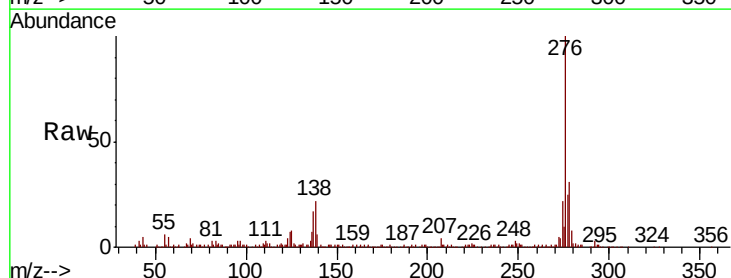
Manual Integrations
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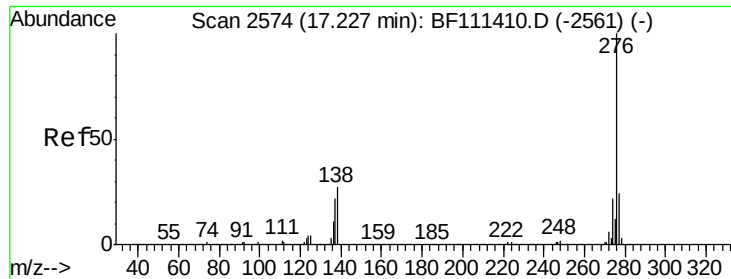
Sohil
12/18/2018 12:49:27 PM



#91
Dibenzo(a,h)anthracene
Concen: 7.704 ng
RT: 16.82 min Scan# 2504
Delta R.T. 0.00 min
Lab File: BF111551.D
Acq: 17 Dec 2018 20:54

Tgt Ion:	278	Resp:	81051
Ion Ratio	Lower	Upper	
278	100		
139	19.4	18.2	27.4
279	25.5	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 25.041 ng
 RT: 17.23 min Scan# 2575
 Delta R.T. 0.01 min
 Lab File: BF111551.D
 Acq: 17 Dec 2018 20:54

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-A

Tot Ion:	276	Resp:	258579
Ion Ratio	Lower	Upper	
276	100		
277	23.2	19.2	28.8
138	24.4	24.9	37.3#

Manual Integrations
 APPROVED

Sohil
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