

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\
 Data File : BF114819.D
 Acq On : 5 Jun 2019 14:24
 Operator : HP/JU
 Sample : K3173-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-02-004-A

Manual Integrations
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Quant Time: Jun 06 05:27:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 04 16:57:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	497777	20.00	ng	0.00
21) Naphthalene-d8	7.95	136	1826352	20.00	ng	0.00
39) Acenaphthene-d10	9.70	164	854748	20.00	ng	0.00
64) Phenanthrene-d10	11.17	188	1523403	20.00	ng	0.00
76) Chrysene-d12	13.80	240	836794	20.00	ng	0.00
87) Perylene-d12	15.20	264	689562	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	1118123	39.25	ng	0.00
7) Phenol-d6	6.30	99	2424217	69.94	ng	0.00
23) Nitrobenzene-d5	7.23	82	1562828	52.68	ng	0.00
42) 2,4,6-Tribromophenol	10.47	330	115902	12.58	ng	0.00
45) 2-Fluorobiphenyl	9.03	172	2793329	61.22	ng	0.00
79) Terphenyl-d14	12.76	244	2654670	61.70	ng	0.00
Target Compounds						
31) Naphthalene	7.97	128	461115	5.608	ng	96
37) 2-Methylnaphthalene	8.66	142	248907	4.364	ng	97
38) 1-Methylnaphthalene	8.76	142	188334	3.482	ng	99
50) Dimethylphthalate	9.42	163	386864	6.197	ng	99
52) Acenaphthene	9.73	154	163446	3.196	ng	97
55) Dibenzofuran	9.90	168	222034	3.123	ng	95
71) Phenanthrene	11.20	178	2153868	29.616	ng	99
72) Anthracene	11.24	178	501797	6.556	ng	95
73) Carbazole	11.40	167	280266	4.272	ng	96
75) Fluoranthene	12.38	202	2109546	27.870	ng	98
78) Pyrene	12.60	202	1913433	26.358	ng	98
81) Benzo(a)anthracene	13.79	228	721384	11.187	ng	98
83) Chrysene	13.83	228	767240	12.231	ng	96
86) Indeno(1,2,3-cd)pyrene	16.53	276	264192	3.691	ng	95
88) Benzo(b)fluoranthene	14.82	252	644829m	14.689	ng	
89) Benzo(k)fluoranthene	14.83	252	223327m	5.991	ng	
90) Benzo(a)pyrene	15.14	252	437104	11.504	ng	# 86
91) Dibenzo(a,h)anthracene	16.53	278	77569	2.156	ng	# 32
92) Benzo(a,h,i)perylene	16.92	276	251201	6.942	ng	# 91

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

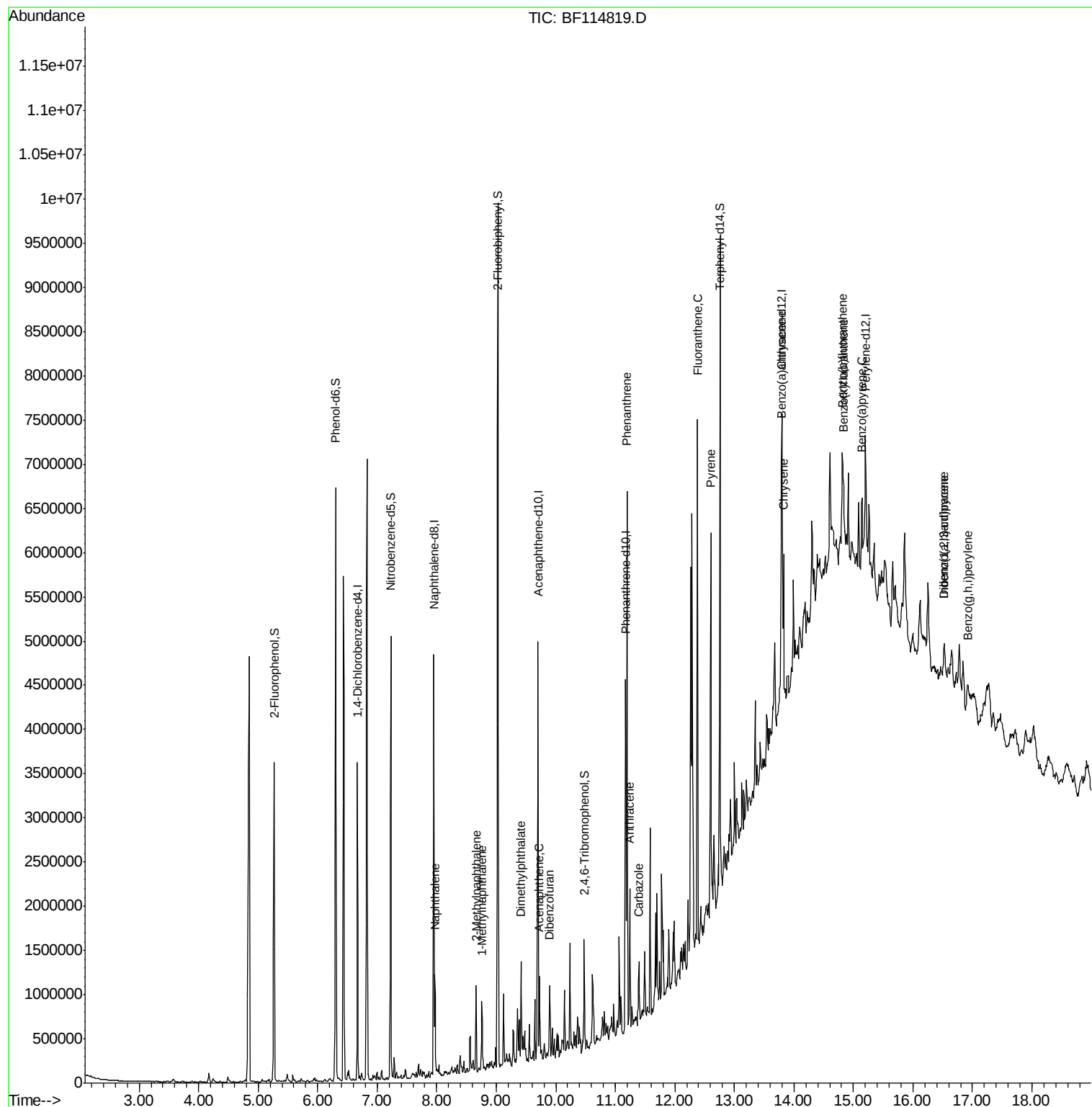
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\
Data File : BF114819.D
Acq On : 5 Jun 2019 14:24
Operator : HP/JU
Sample : K3173-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

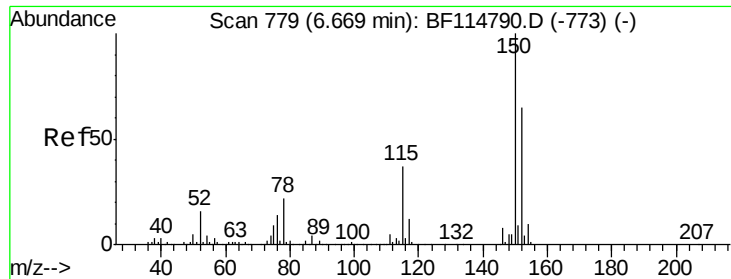
Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Quant Time: Jun 06 05:27:34 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF060419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 04 16:57:15 2019
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#1

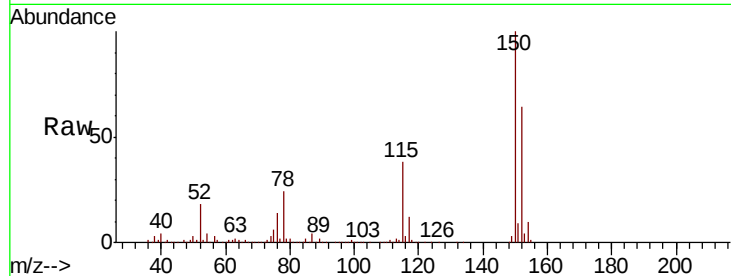
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 779
Delta R.T. -0.00 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.0	186.0
115	59.7	46.3	69.5

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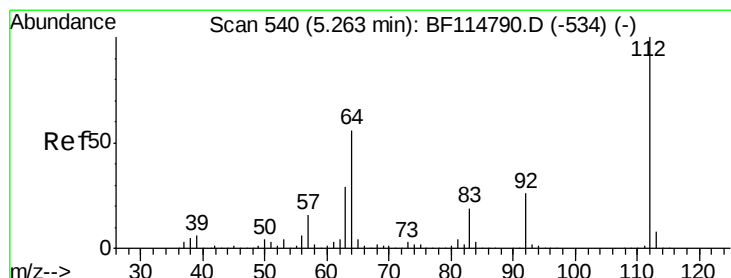
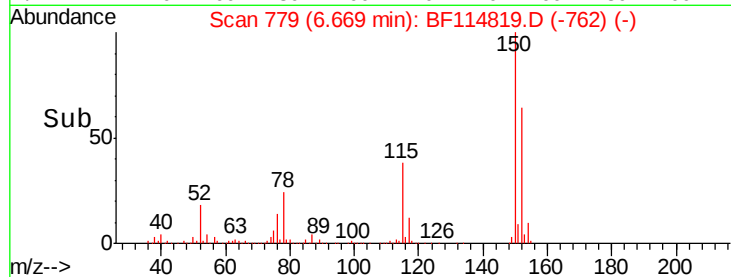
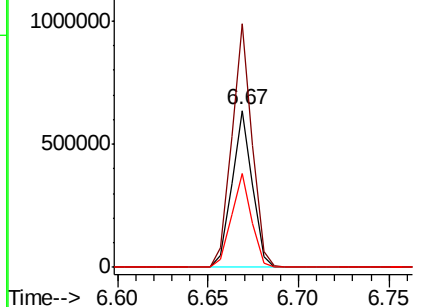


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

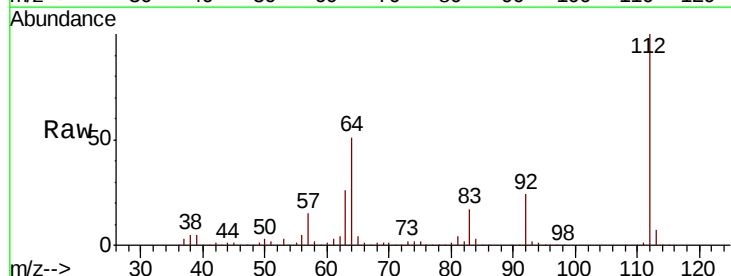
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 39.250 ng
RT: 5.27 min Scan# 541
Delta R.T. 0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.1	44.6	66.8
63	26.3	23.0	34.4

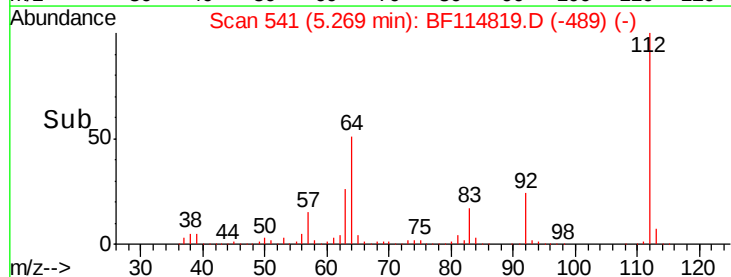
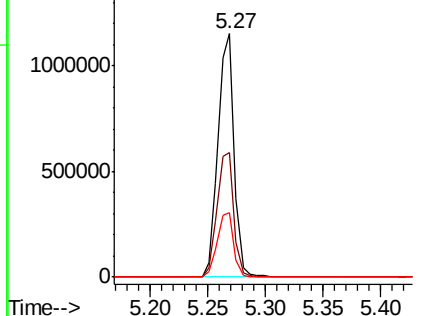


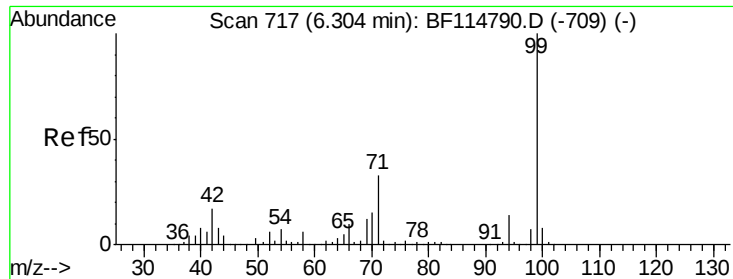
Abundance

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: 69.935 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.00 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA_F

ClientSampleId :

FK-SF-02-004-A

Tot Ion: 99 Resp: 2424217

Ion Ratio Lower Upper

99 100

42 17.3 13.3 19.9

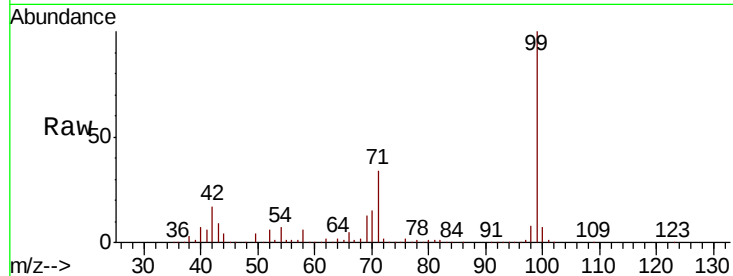
71 33.8 26.3 39.5

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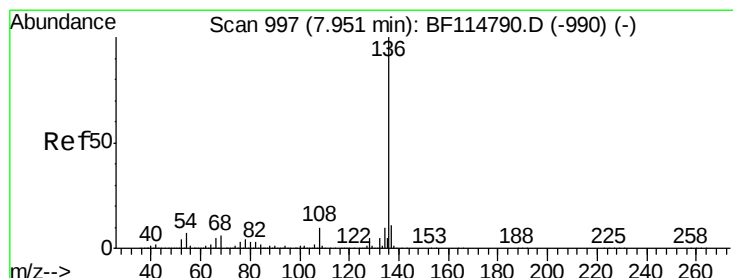
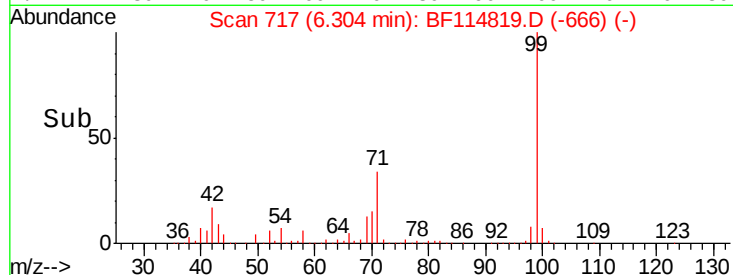
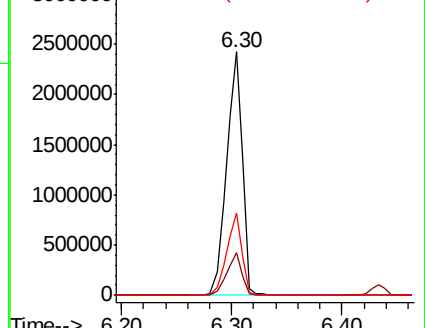
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.95 min Scan# 997

Delta R.T. -0.00 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Tgt Ion: 136 Resp: 1826352

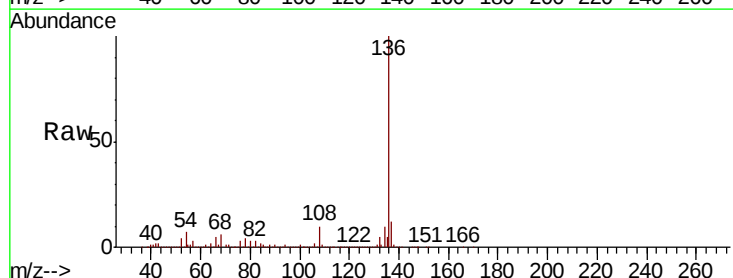
Ion Ratio Lower Upper

136 100

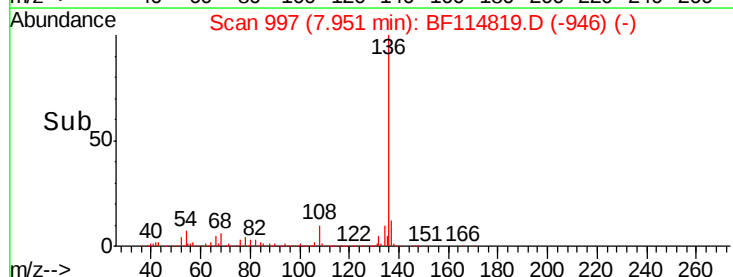
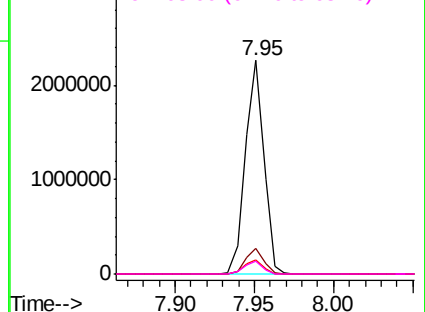
137 11.8 9.1 13.7

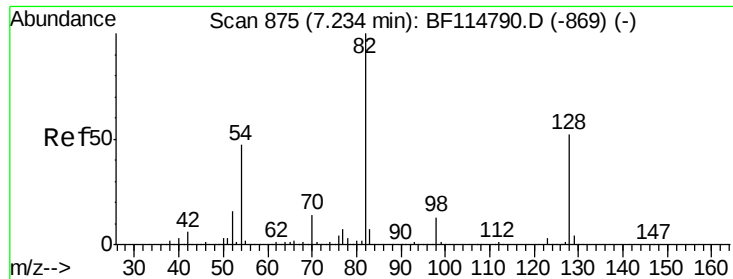
54 6.9 5.4 8.0

68 6.1 4.6 6.8



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





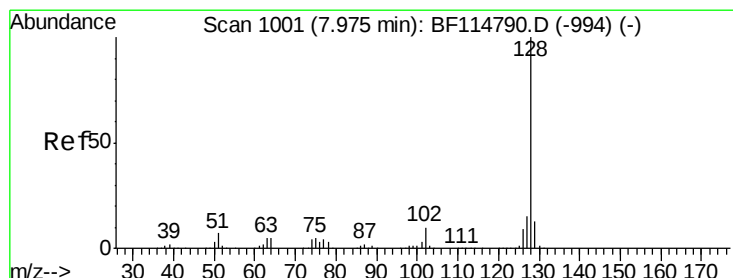
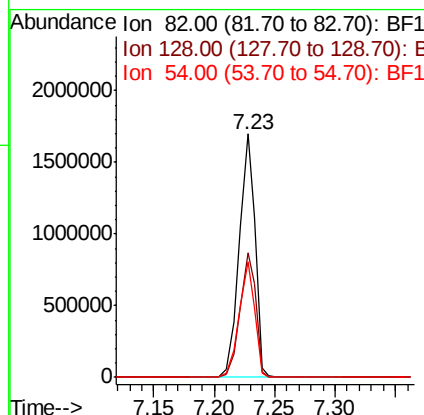
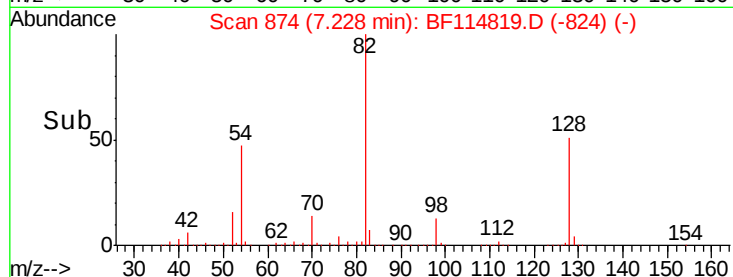
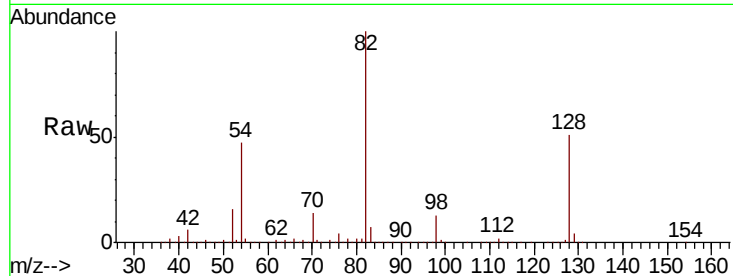
#23
Nitrobenzene-d5
Concen: 52.676 ng
RT: 7.23 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
82	100		
128	51.1	41.8	62.6
54	47.4	37.9	56.9

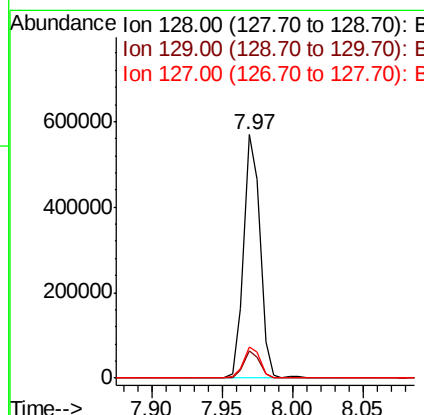
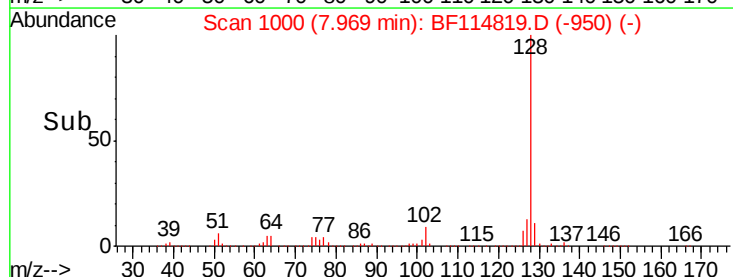
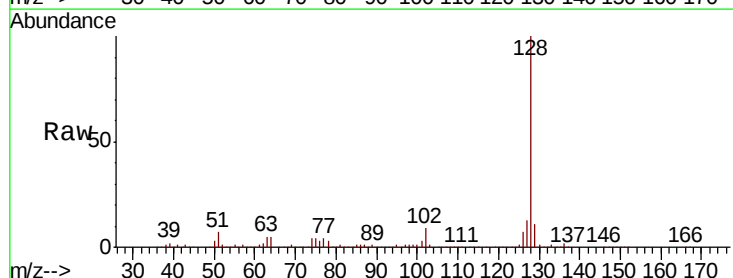
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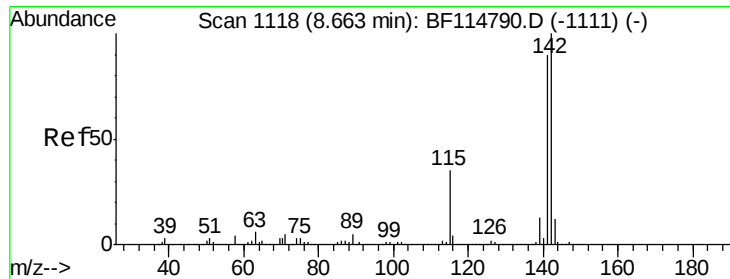
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#31
Naphthalene
Concen: 5.608 ng
RT: 7.97 min Scan# 1000
Delta R.T. -0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	10.0	15.0
127	13.0	12.2	18.2





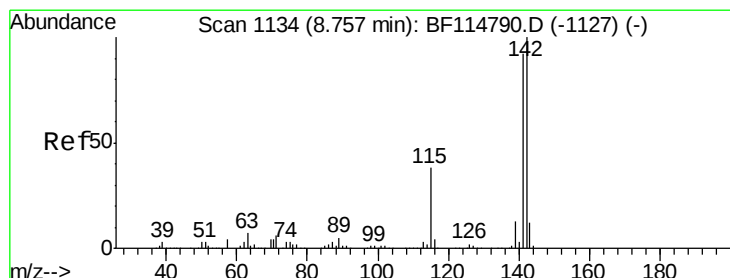
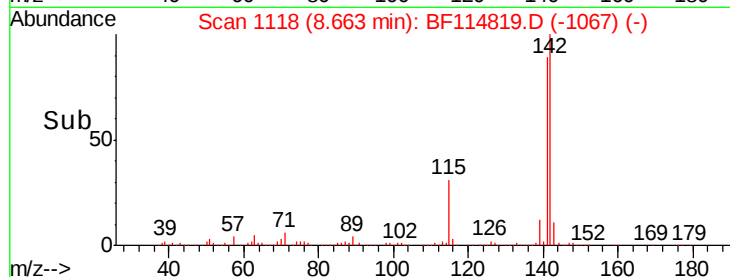
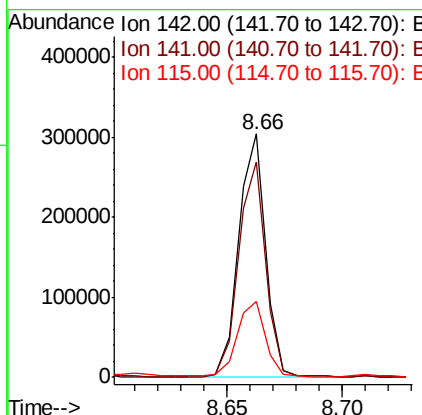
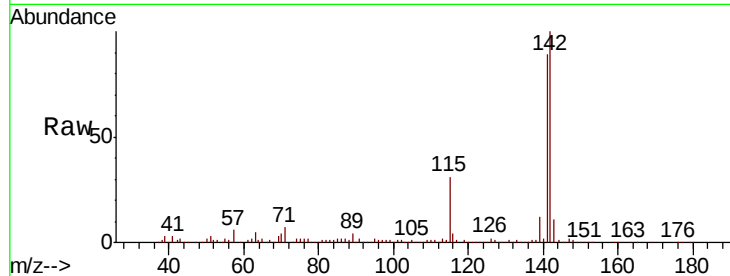
#37
2-Methylnaphthalene
Concen: 4.364 ng
RT: 8.66 min Scan# 1118
Delta R.T. -0.00 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.6	107.4
115	31.2	28.2	42.4

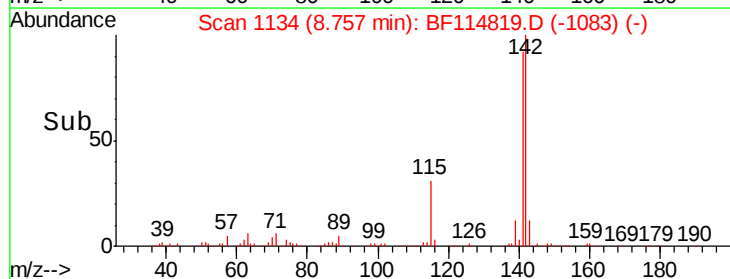
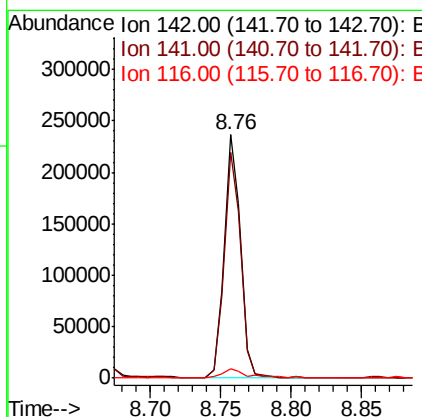
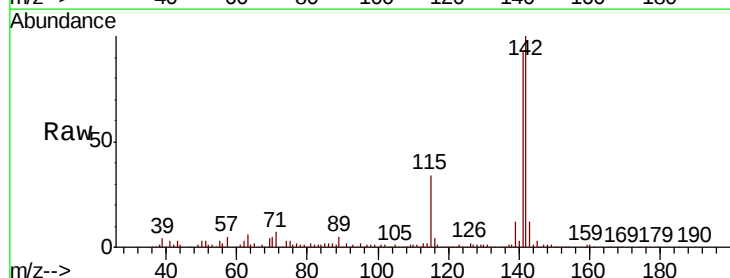
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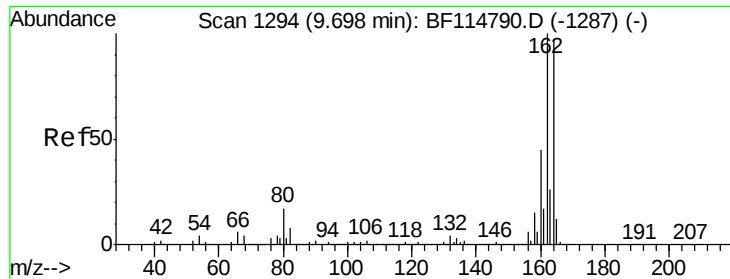
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#38
1-Methylnaphthalene
Concen: 3.482 ng
RT: 8.76 min Scan# 1134
Delta R.T. -0.00 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.8	110.6
116	3.7	3.3	4.9





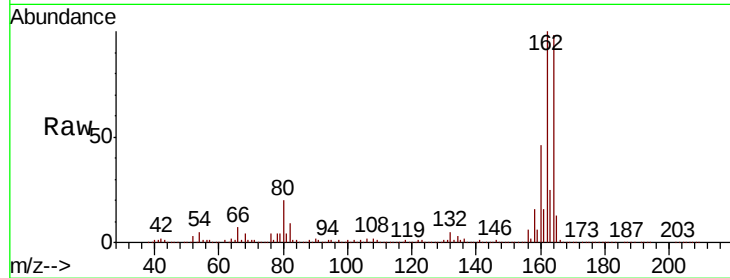
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.00 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

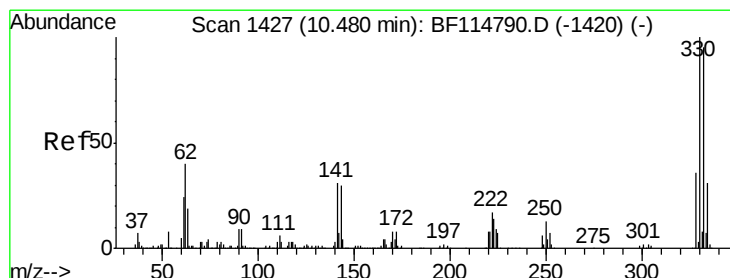
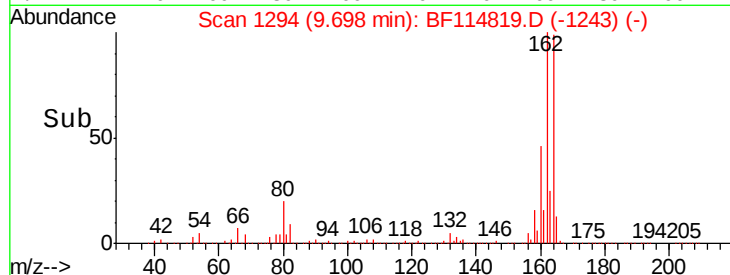
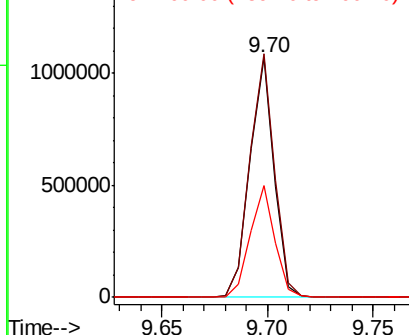
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.7	82.3	123.5	
160	46.5	36.7	55.1	

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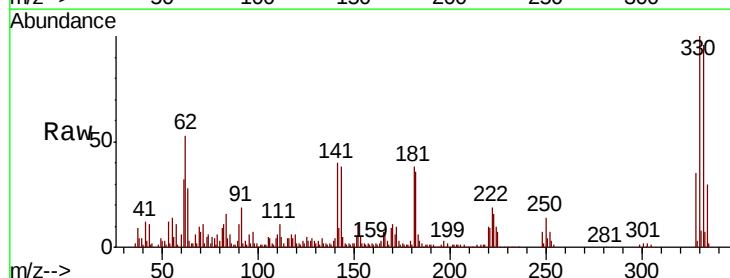


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

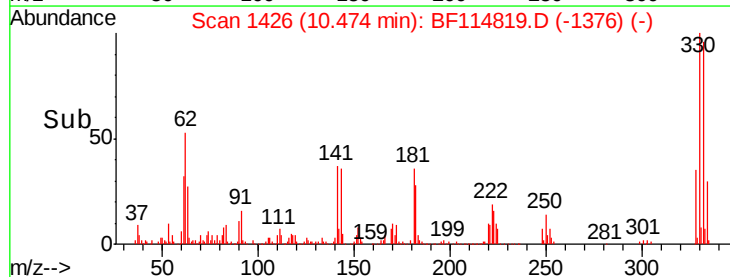
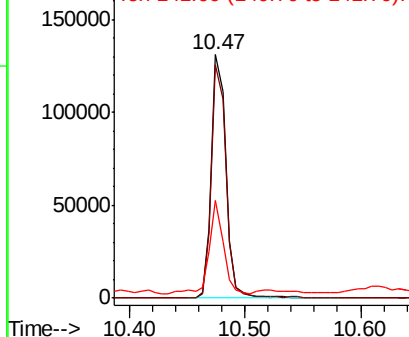


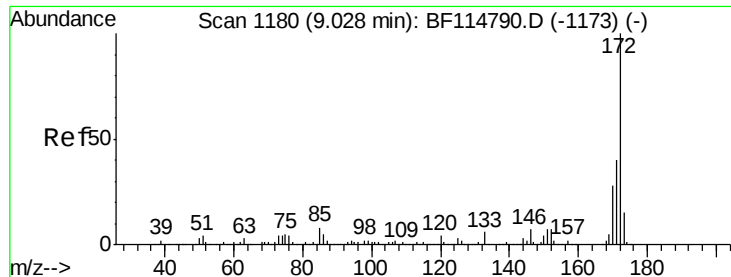
#42
2,4,6-Tribromophenol
Concen: 12.583 ng
RT: 10.47 min Scan# 1426
Delta R.T. -0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.7	77.3	115.9	
141	36.0	26.2	39.4	



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





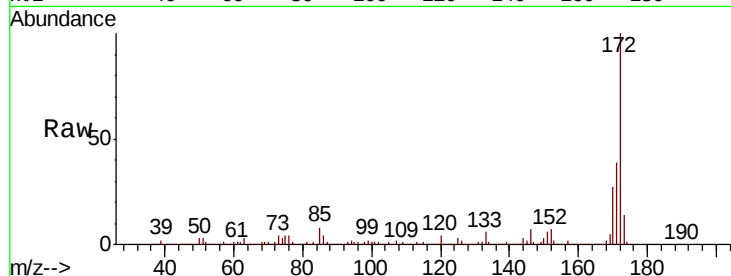
#45
2-Fluorobiphenyl
Concen: 61.219 ng
RT: 9.03 min Scan# 1180
Delta R.T. -0.00 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
172	100		
171	39.3	32.3	48.5
170	27.2	22.4	33.6

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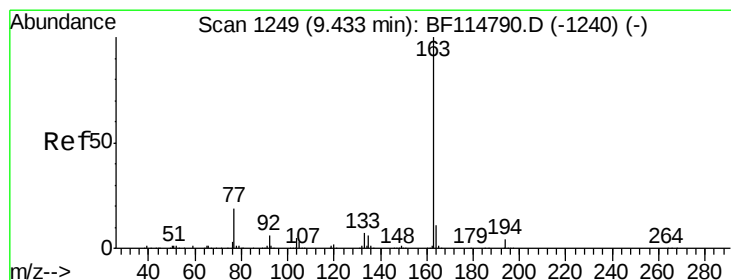
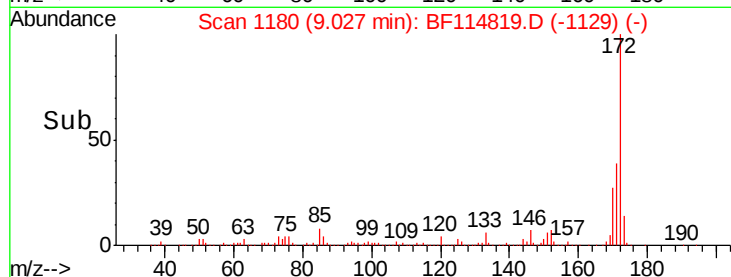
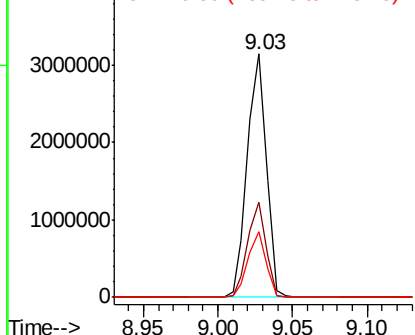


Abundance

Ion 172.00 (171.70 to 172.70): E

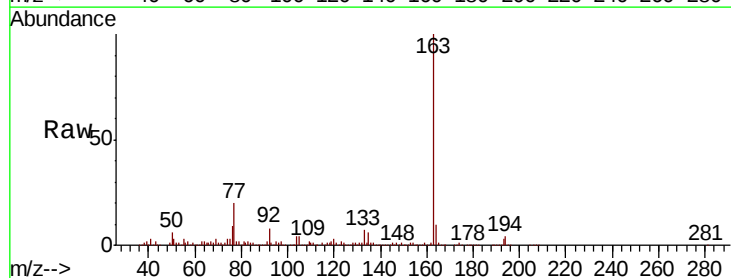
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50
Dimethylphthalate
Concen: 6.197 ng
RT: 9.42 min Scan# 1246
Delta R.T. -0.02 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.4	8.6	13.0

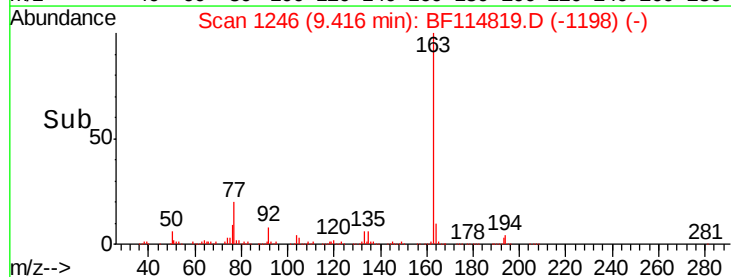
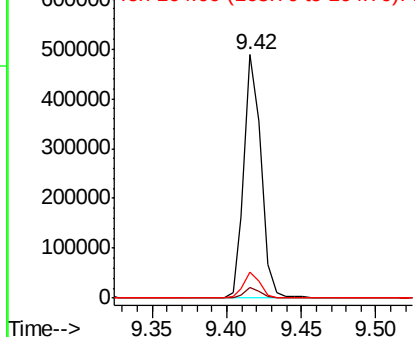


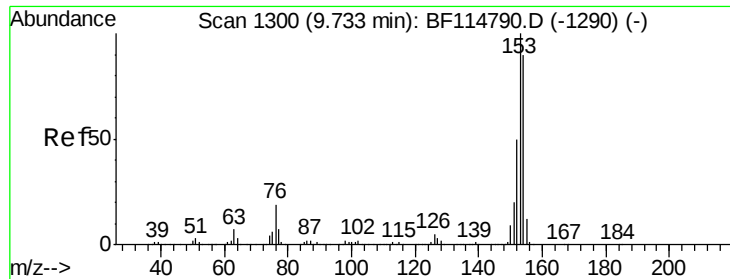
Abundance

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: 3.196 ng

RT: 9.73 min Scan# 1299

Delta R.T. -0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA_F

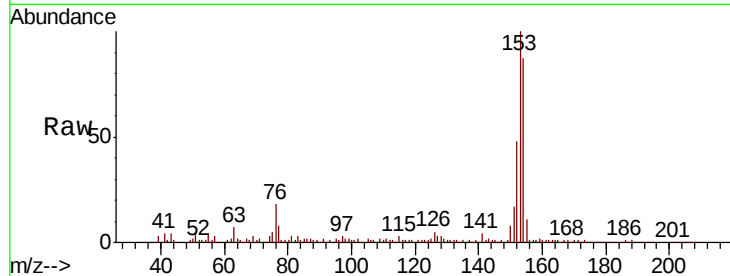
ClientSampleId :

FK-SF-02-004-A

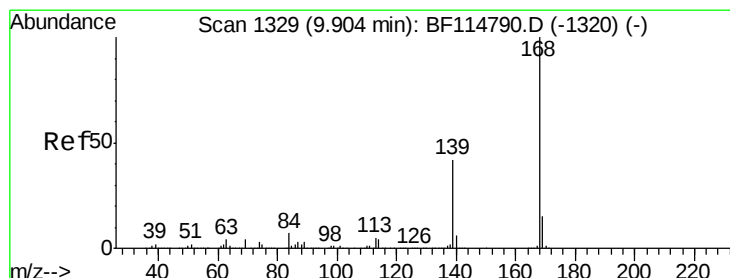
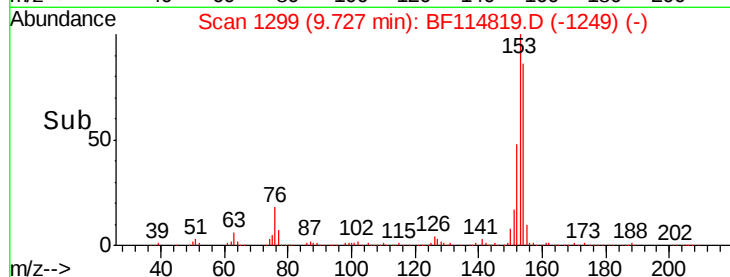
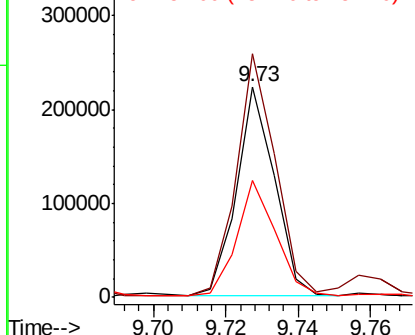
Tot Ion:	154	Resp:	163446
Ion Ratio	Lower	Upper	
154	100		
153	115.6	88.5	132.7
152	55.4	44.1	66.1

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



#55

Dibenzofuran

Concen: 3.123 ng

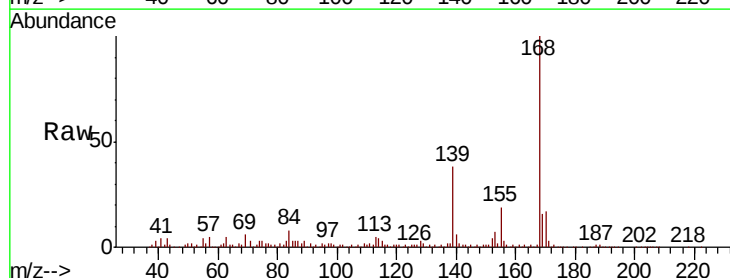
RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

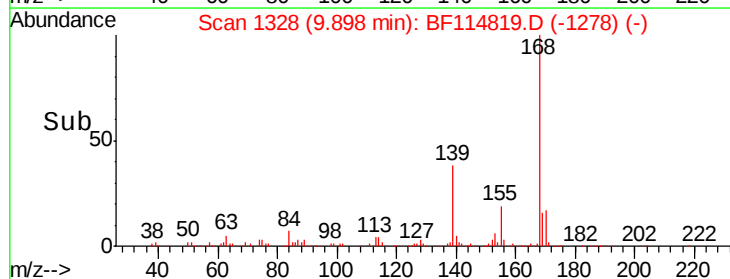
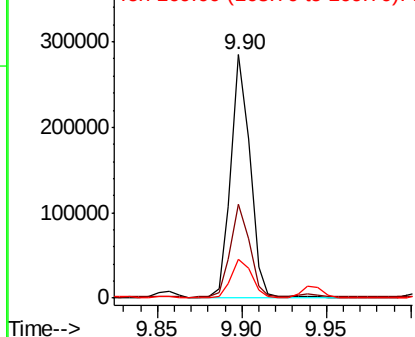
Lab File: BF114819.D

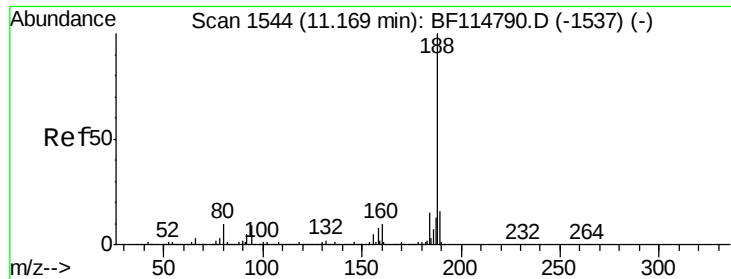
Acq: 5 Jun 2019 14:24

Tgt Ion:	168	Resp:	222034
Ion Ratio	Lower	Upper	
168	100		
139	38.3	33.8	50.6
169	15.9	11.9	17.9



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.17 min Scan# 1545

Delta R.T. 0.01 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

Instrument :

BNA_F

ClientSampleId :

FK-SF-02-004-A

Tot Ion:188 Resp: 1523403

Ion Ratio Lower Upper

188 100

94 9.6 7.6 11.4

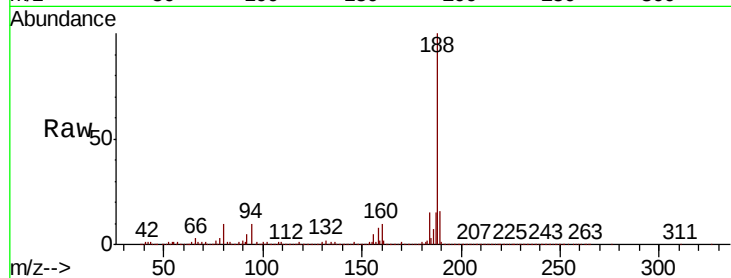
80 9.8 8.3 12.5

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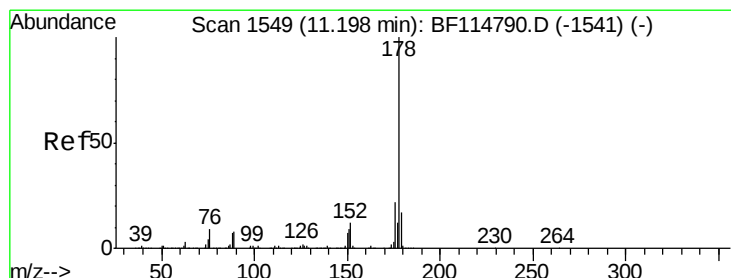
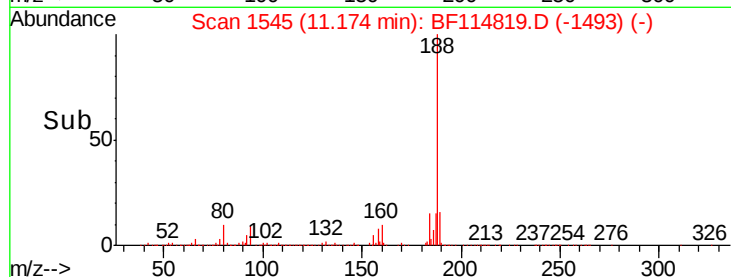
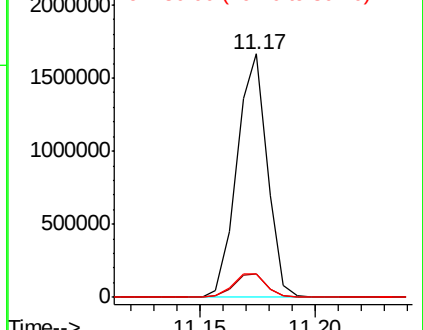
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 29.616 ng

RT: 11.20 min Scan# 1549

Delta R.T. -0.00 min

Lab File: BF114819.D

Acq: 5 Jun 2019 14:24

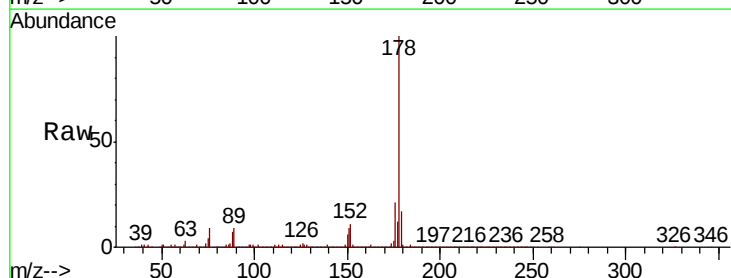
Tgt Ion:178 Resp: 2153868

Ion Ratio Lower Upper

178 100

176 21.4 17.7 26.5

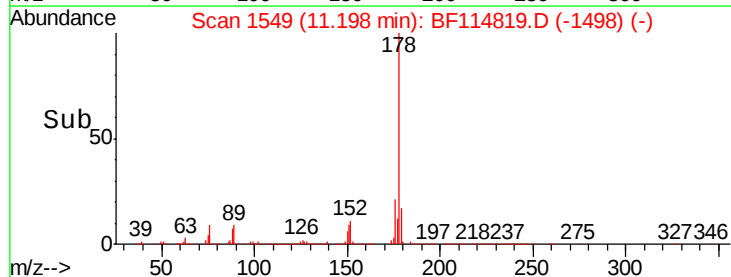
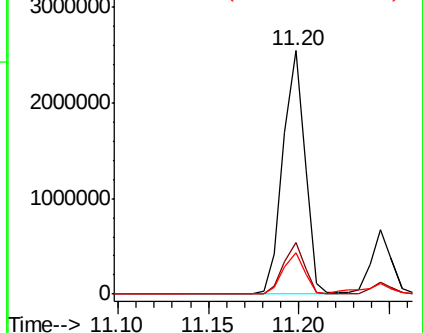
179 16.9 13.7 20.5

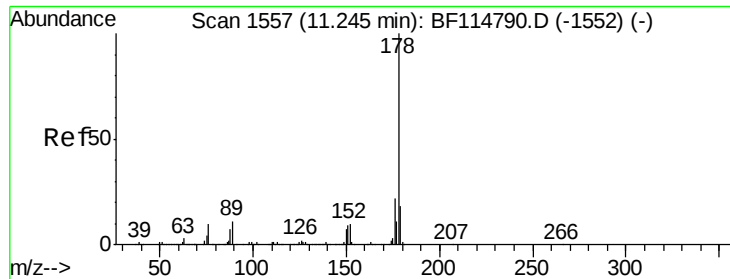


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





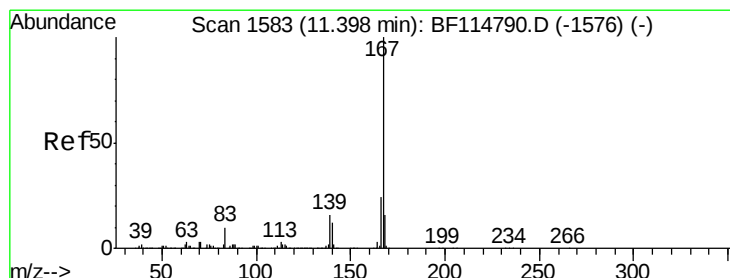
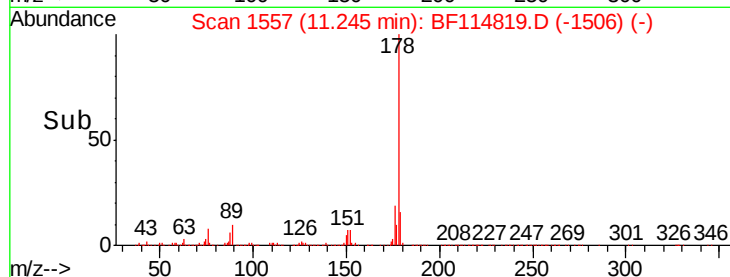
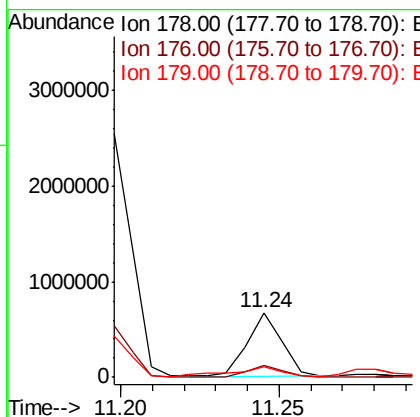
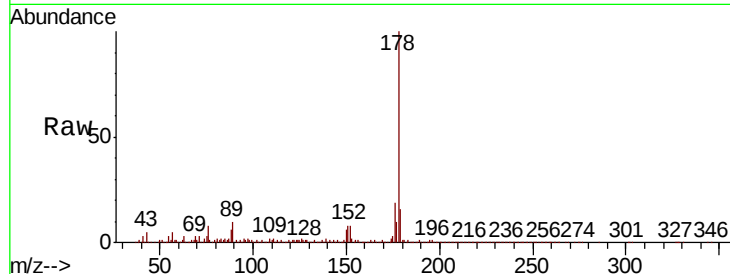
#72
 Anthracene
 Concen: 6.556 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. -0.00 min
 Lab File: BF114819.D
 Acq: 5 Jun 2019 14:24

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	17.4	26.0
179	16.4	14.2	21.4

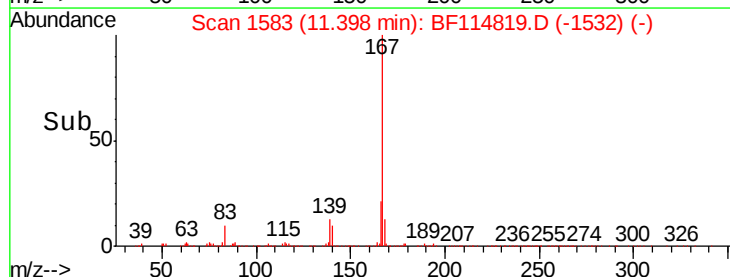
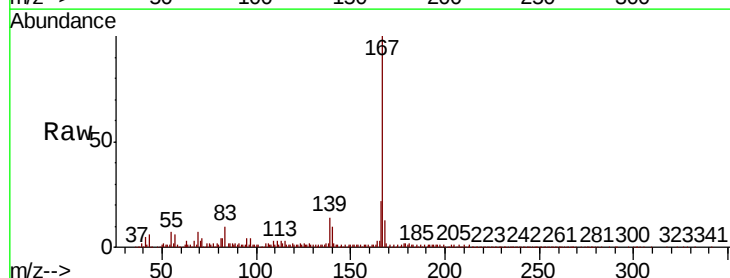
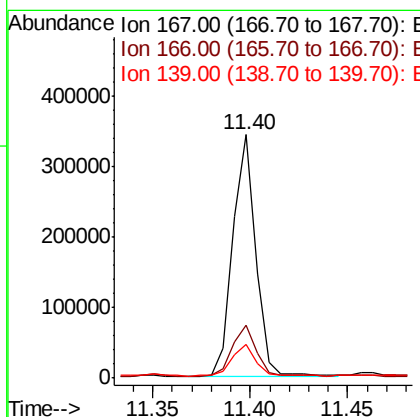
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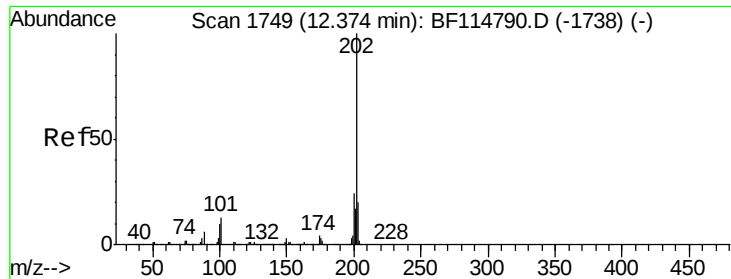
mohammad
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#73
 Carbazole
 Concen: 4.272 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF114819.D
 Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	19.1	28.7
139	13.6	12.4	18.6





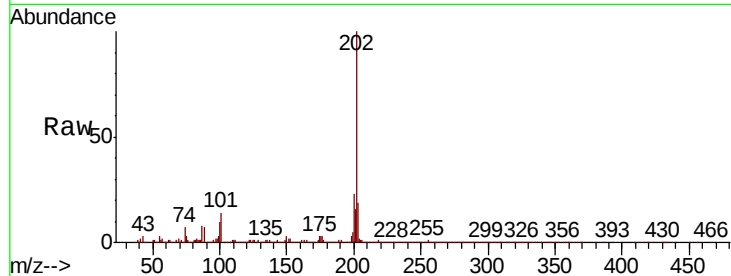
#75
 Fluoranthene
 Concen: 27.870 ng
 RT: 12.38 min Scan# 1750
 Delta R.T. 0.01 min
 Lab File: BF114819.D
 Acq: 5 Jun 2019 14:24

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	32.8
203	19.0	0.2	40.2

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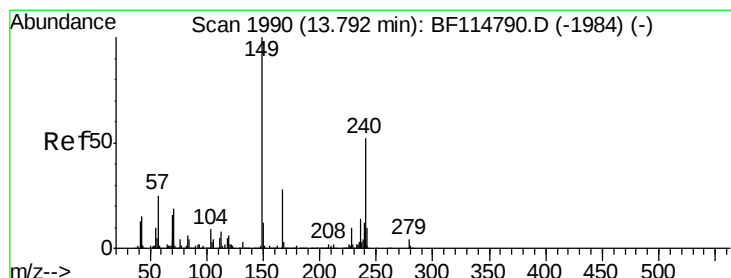
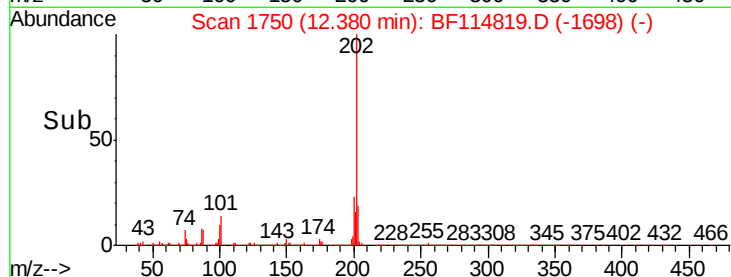
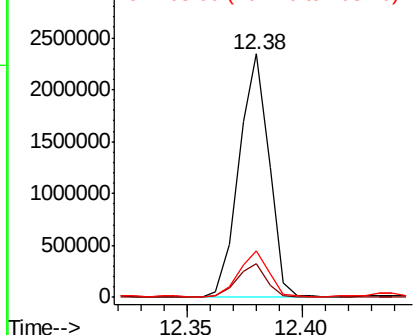


Abundance

Ion 202.00 (201.70 to 202.70): E

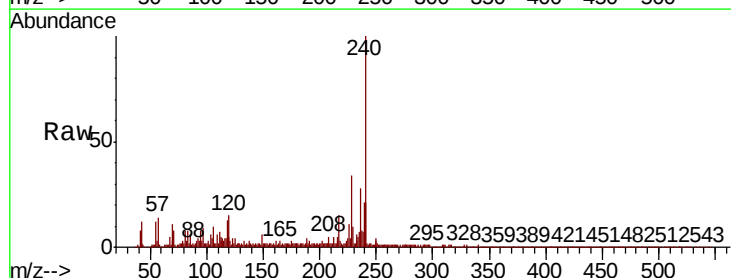
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.80 min Scan# 1991
 Delta R.T. 0.01 min
 Lab File: BF114819.D
 Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.6	9.0	13.4#
236	27.9	21.4	32.0

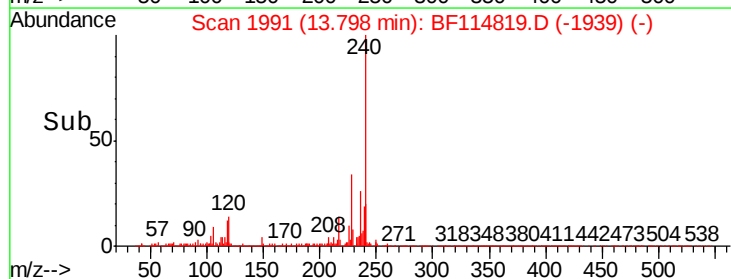
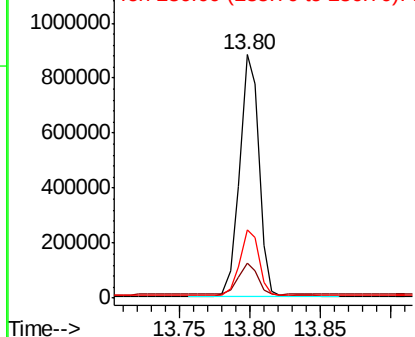


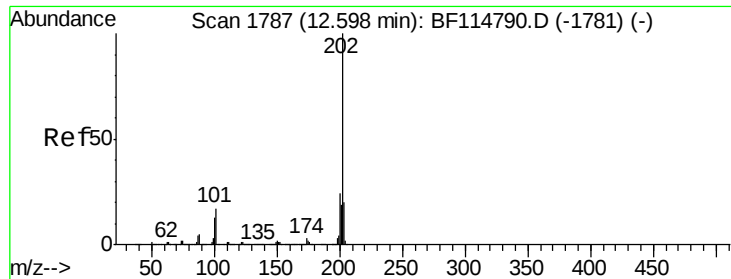
Abundance

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





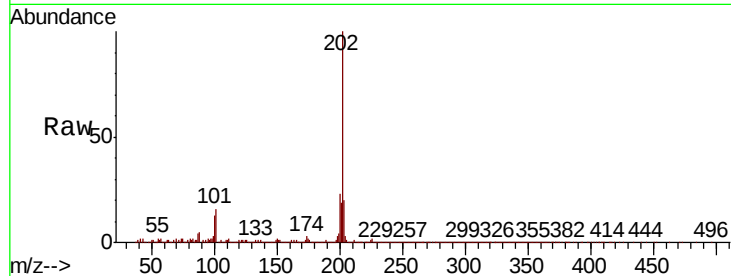
#78
Pvrene
Concen: 26.358 ng
RT: 12.60 min Scan# 1788
Delta R.T. 0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.7	19.2	28.8
203	19.8	15.9	23.9

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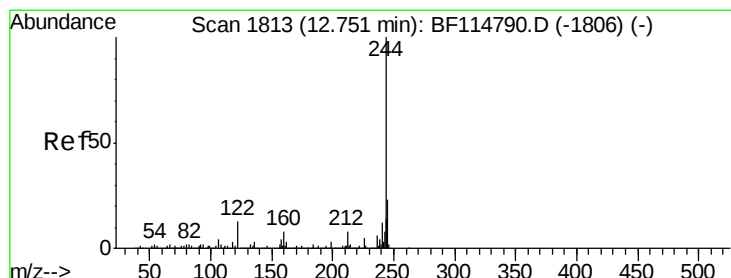
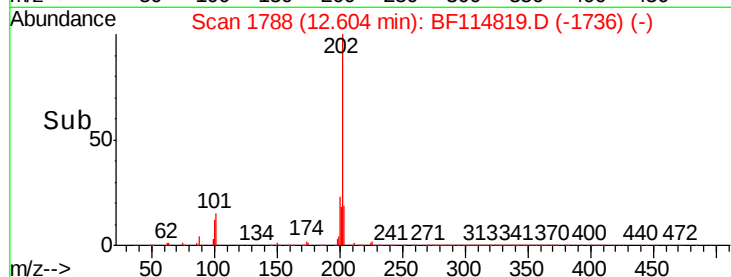
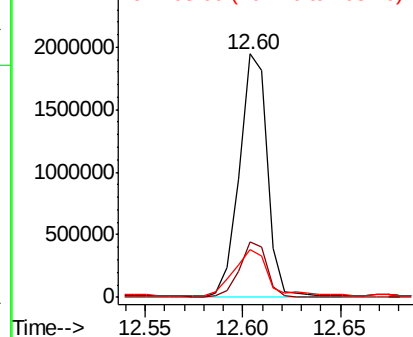


Abundance

Ion 202.00 (201.70 to 202.70): E

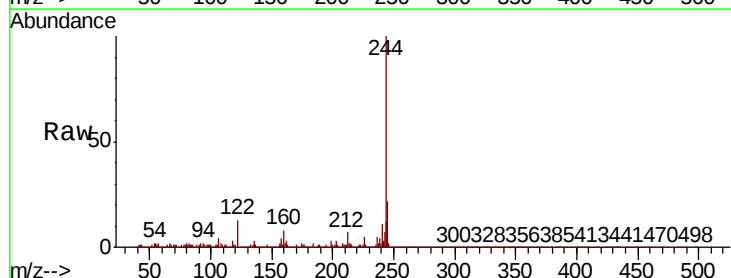
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79
Terphenyl-d14
Concen: 61.696 ng
RT: 12.76 min Scan# 1814
Delta R.T. 0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.5	9.7
122	13.0	10.5	15.7

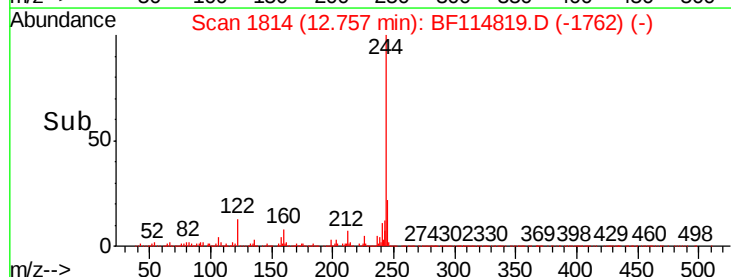
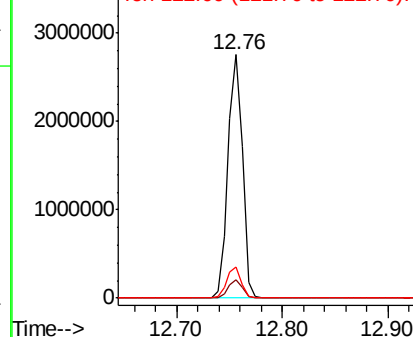


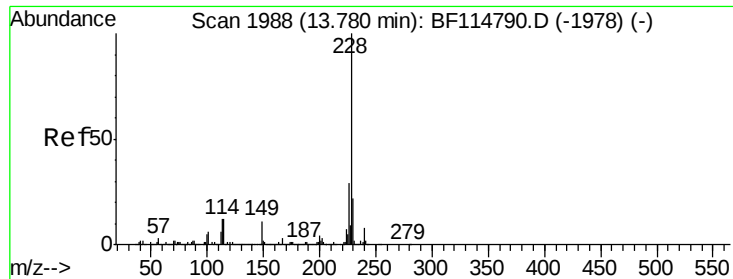
Abundance

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





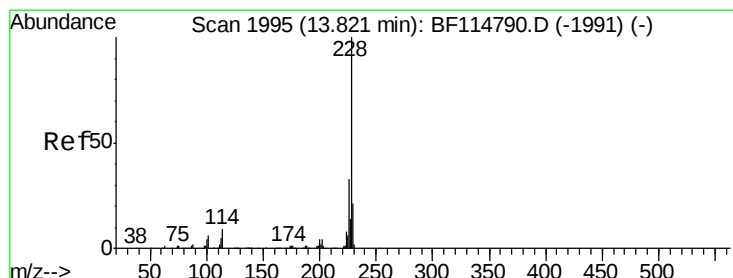
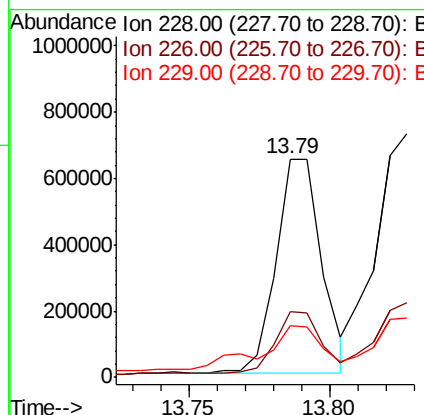
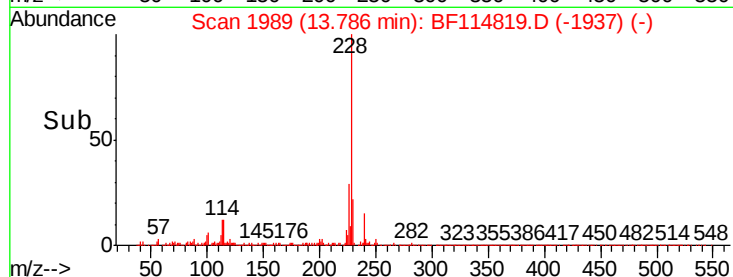
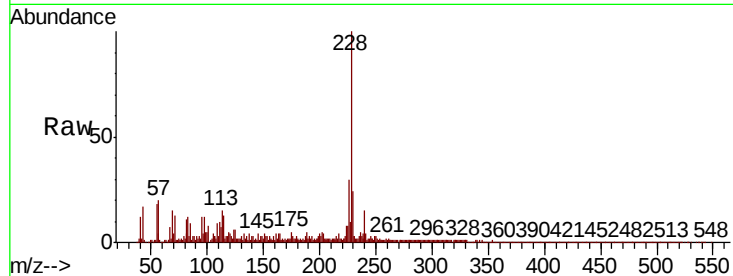
#81
Benzo(a)anthracene
Concen: 11.187 ng
RT: 13.79 min Scan# 1989
Delta R.T. 0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion:	228	Resp:	721384
Ion Ratio	Lower	Upper	
228	100		
226	29.9	23.4	35.2
229	23.6	17.4	26.0

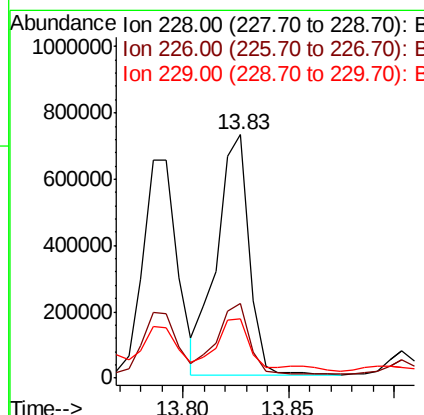
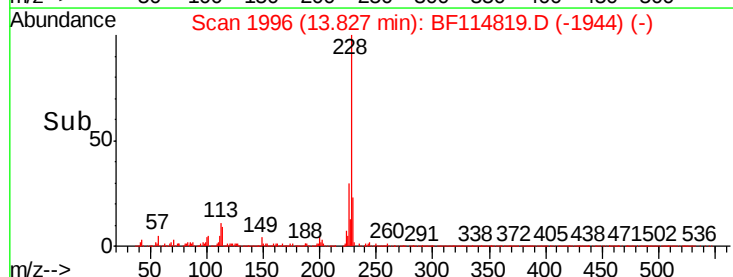
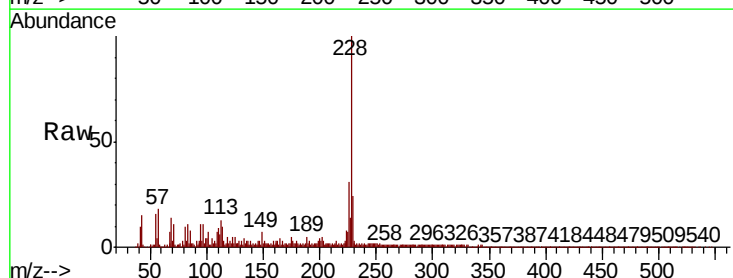
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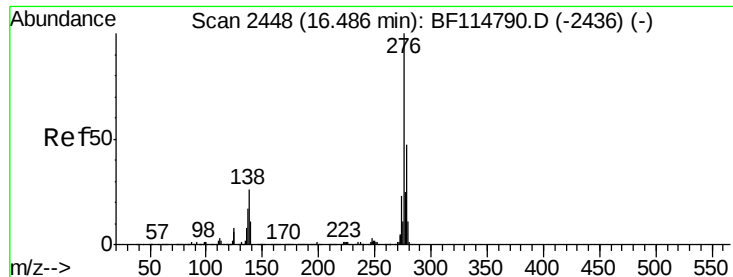
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#83
Chrysene
Concen: 12.231 ng
RT: 13.83 min Scan# 1996
Delta R.T. 0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion:	228	Resp:	767240
Ion Ratio	Lower	Upper	
228	100		
226	30.7	26.0	39.0
229	24.3	17.1	25.7





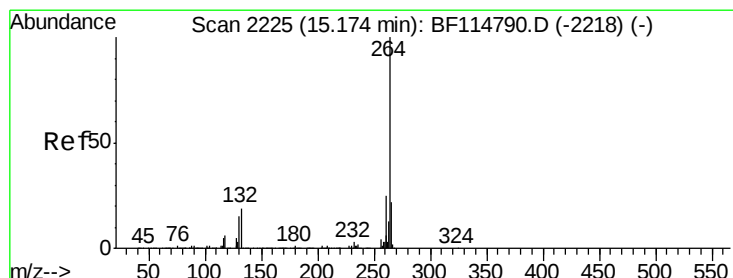
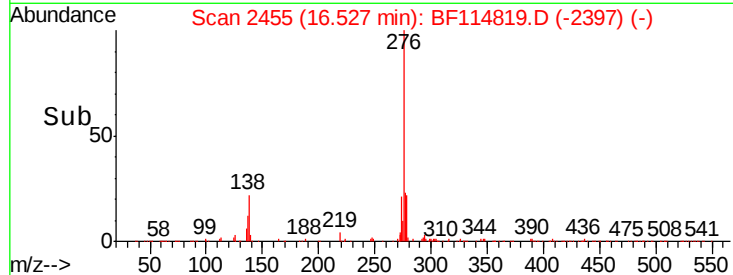
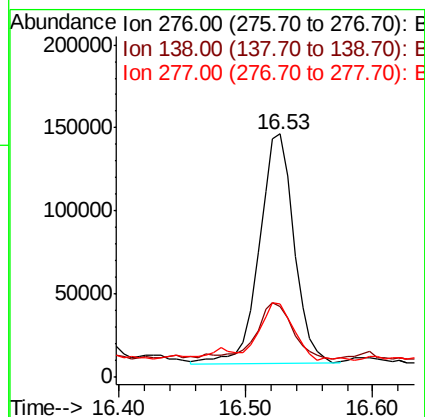
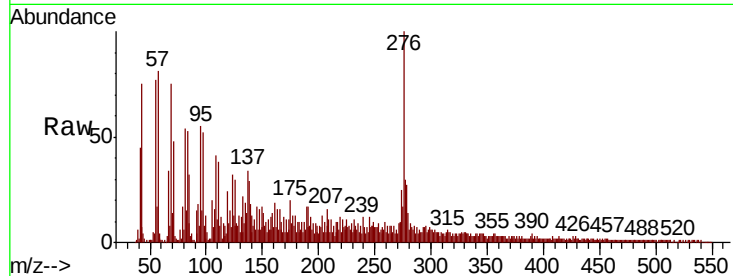
#86
Indeno(1,2,3-cd)pyrene
Concen: 3.691 ng
RT: 16.53 min Scan# 2455
Delta R.T. 0.04 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.7	22.2	33.4
277	22.6	20.6	30.8

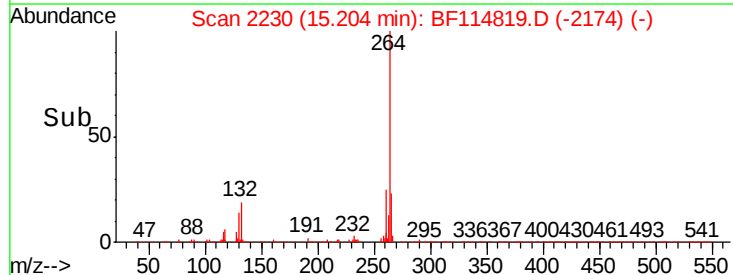
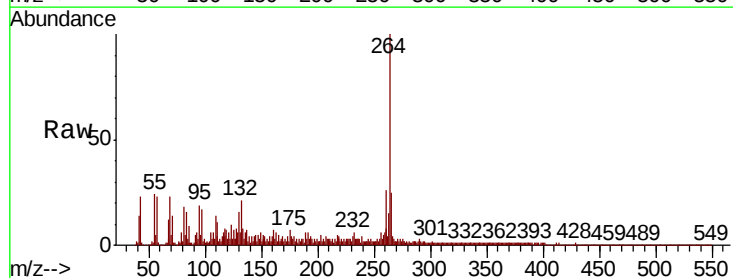
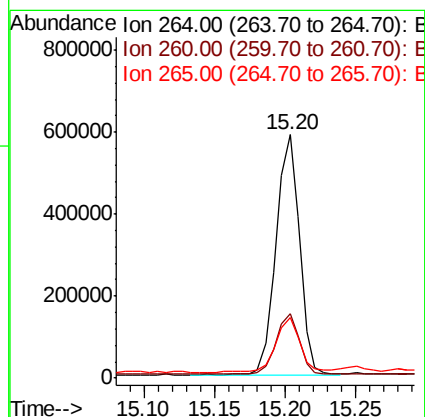
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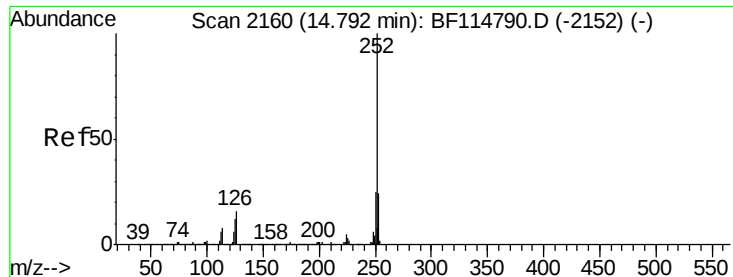
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2230
Delta R.T. 0.03 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.5	20.1	30.1
265	24.8	17.7	26.5





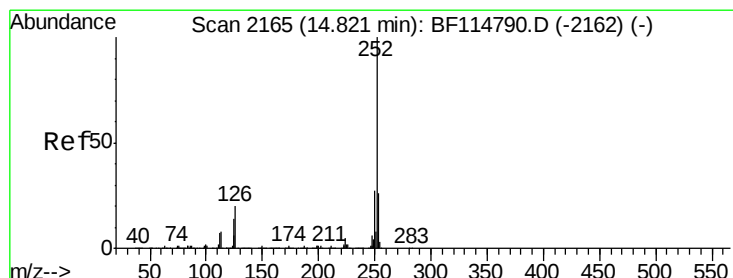
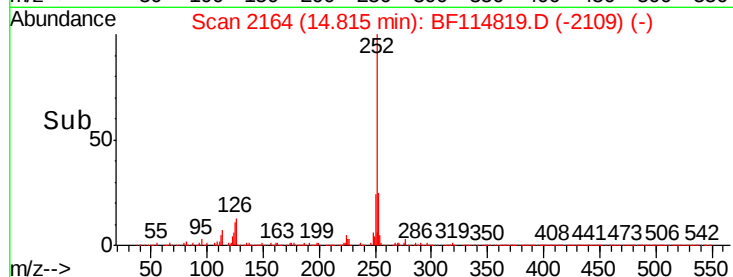
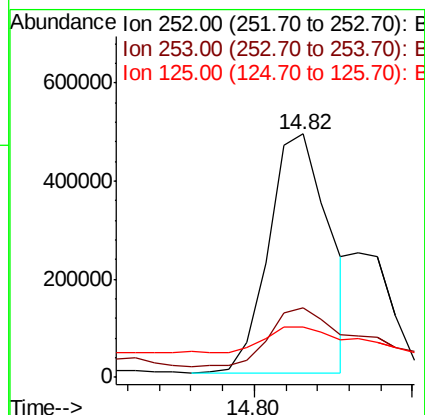
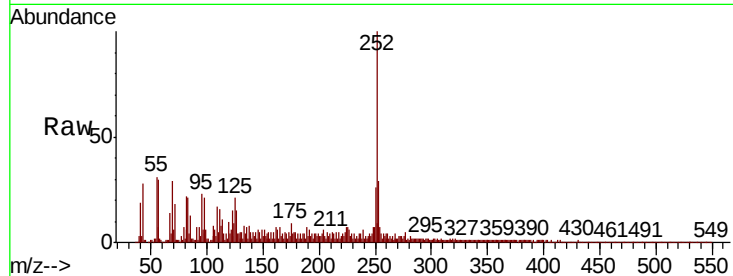
#88
Benzo(b)fluoranthene
Concen: 14.689 ng m
RT: 14.82 min Scan# 2164
Delta R.T. 0.02 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	28.5	19.0	28.6
125	20.8	9.4	14.0

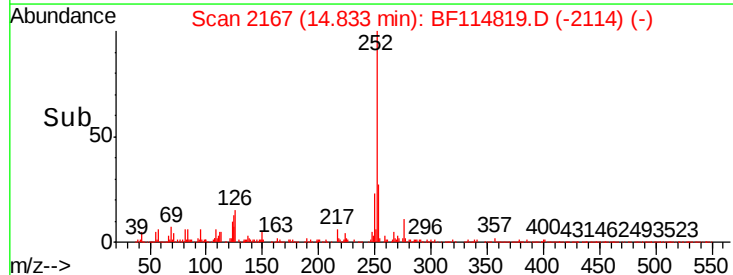
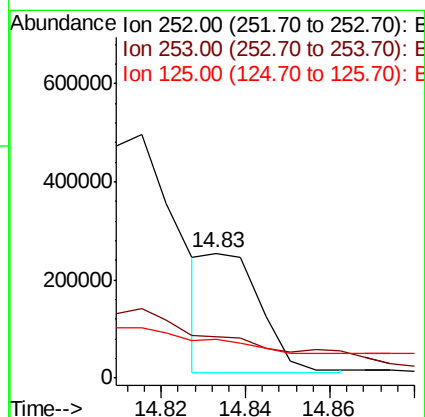
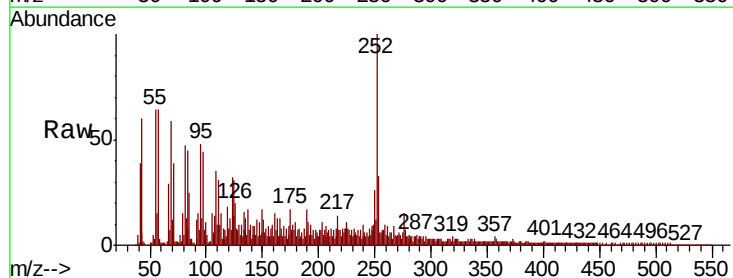
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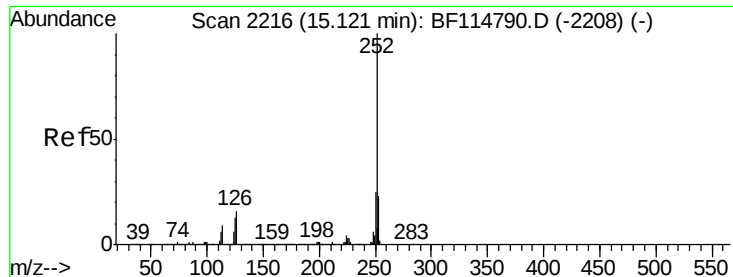
mohammad
6/6/2019 4:49:55 PM



#89
Benzo(k)fluoranthene
Concen: 5.991 ng m
RT: 14.83 min Scan# 2167
Delta R.T. 0.01 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.2	19.3	28.9
125	30.9	10.1	15.1





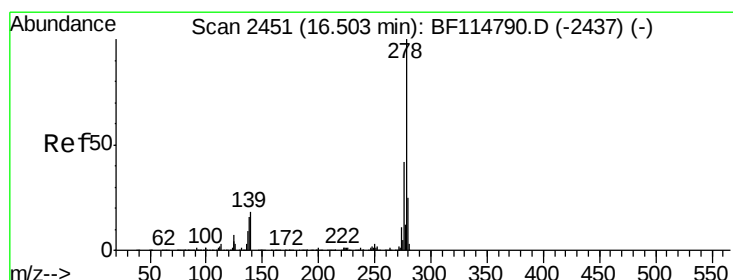
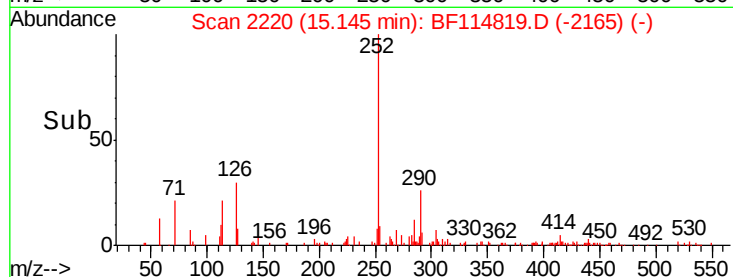
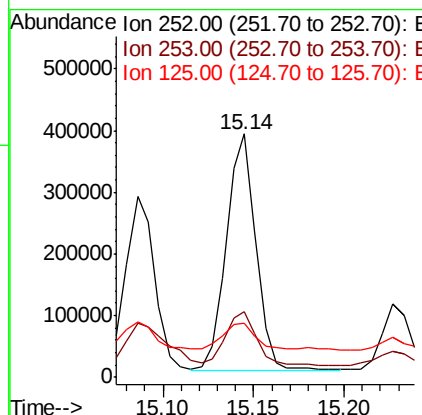
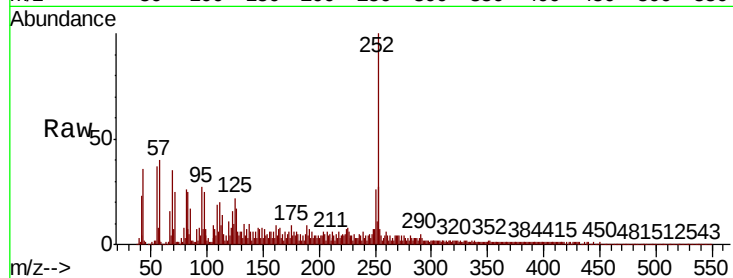
#90
Benzo(a)pyrene
Concen: 11.504 ng
RT: 15.14 min Scan# 2220
Delta R.T. 0.02 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Instrument :
BNA_F
ClientSampleId :
FK-SF-02-004-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.9	18.5	27.7
125	22.2	10.1	15.1#

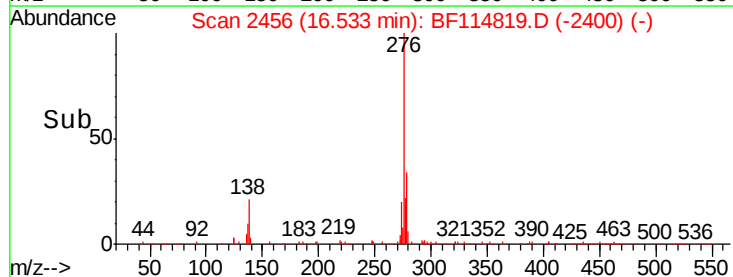
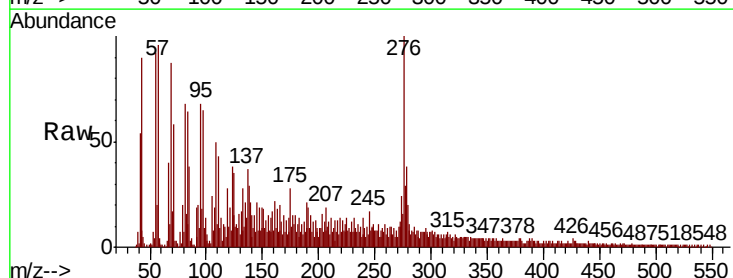
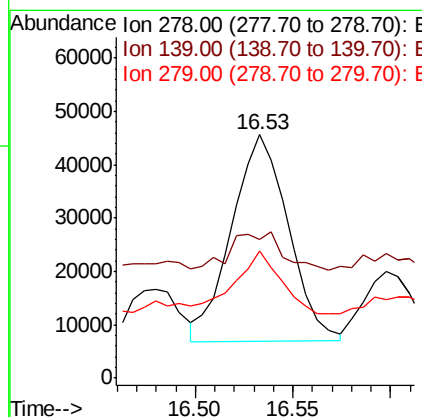
Manual Integrations
APPROVED

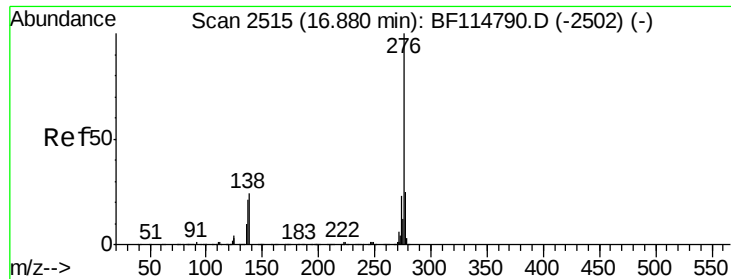
mohammad
6/6/2019 4:49:55 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.156 ng
RT: 16.53 min Scan# 2456
Delta R.T. 0.03 min
Lab File: BF114819.D
Acq: 5 Jun 2019 14:24

Tgt Ion	Ratio	Lower	Upper
278	100		
139	57.1	14.6	22.0#
279	52.1	20.1	30.1#





#92
 Benzo(a,h,i)perylene
 Concen: 6.942 ng
 RT: 16.92 min Scan# 2522
 Delta R.T. 0.04 min
 Lab File: BF114819.D
 Acq: 5 Jun 2019 14:24

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-02-004-A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
276	100				
277	28.6		19.8	29.6	
138	29.6		19.4	29.2	

Manual Integrations
 APPROVED

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