

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\
 Data File : BF114841.D
 Acq On : 6 Jun 2019 1:42
 Operator : HP/JU
 Sample : K3171-03 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-03-008-B

Manual Integrations
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 6/6/2019 4:50:44 PM

Quant Time: Jun 06 07:54:06 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	6.66	152	389488	20.00	ng	0.00
21) Naphthalene-d8	7.95	136	1497299	20.00	ng	0.00
39) Acenaphthene-d10	9.69	164	713287	20.00	ng	0.00
64) Phenanthrene-d10	11.17	188	1222614	20.00	ng	0.00
76) Chrysene-d12	13.79	240	746419	20.00	ng	0.00
87) Perylene-d12	15.19	264	574483	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	334372	15.00	ng	0.00
7) Phenol-d6	6.30	99	958482	35.34	ng	0.00
23) Nitrobenzene-d5	7.22	82	623945	25.65	ng	-0.01
42) 2,4,6-Tribromophenol	10.47	330	20417	2.66	ng	0.00
45) 2-Fluorobiphenyl	9.02	172	1321153	34.70	ng	0.00
79) Terphenyl-d14	12.75	244	1181233	30.78	ng	0.00
Target Compounds						
31) Naphthalene	7.97	128	297249	4.410	ng	95
37) 2-Methylnaphthalene	8.66	142	153616	3.286	ng	98
38) 1-Methylnaphthalene	8.76	142	116660	2.631	ng	99
50) Dimethylphthalate	9.42	163	221160	4.245	ng	98
52) Acenaphthene	9.73	154	95715	2.243	ng	100
55) Dibenzofuran	9.90	168	129857	2.188	ng	91
71) Phenanthrene	11.19	178	1197085	20.510	ng	97
72) Anthracene	11.24	178	269602	4.389	ng	95
73) Carbazole	11.39	167	141985	2.696	ng	96
75) Fluoranthene	12.37	202	1195150	19.674	ng	97
78) Pyrene	12.60	202	1085265	16.760	ng	97
81) Benzo(a)anthracene	13.78	228	433059	7.529	ng	97
83) Chrysene	13.82	228	451723m	8.073	ng	
86) Indeno(1,2,3-cd)pyrene	16.50	276	138570	2.170	ng	97
88) Benzo(b)fluoranthene	14.80	252	347721m	9.508	ng	
89) Benzo(k)fluoranthene	14.82	252	123414m	3.974	ng	
90) Benzo(a)pyrene	15.13	252	235751	7.448	ng	# 84
92) Benzo(a,h,i)perylene	16.89	276	138300	4.588	ng	# 85

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

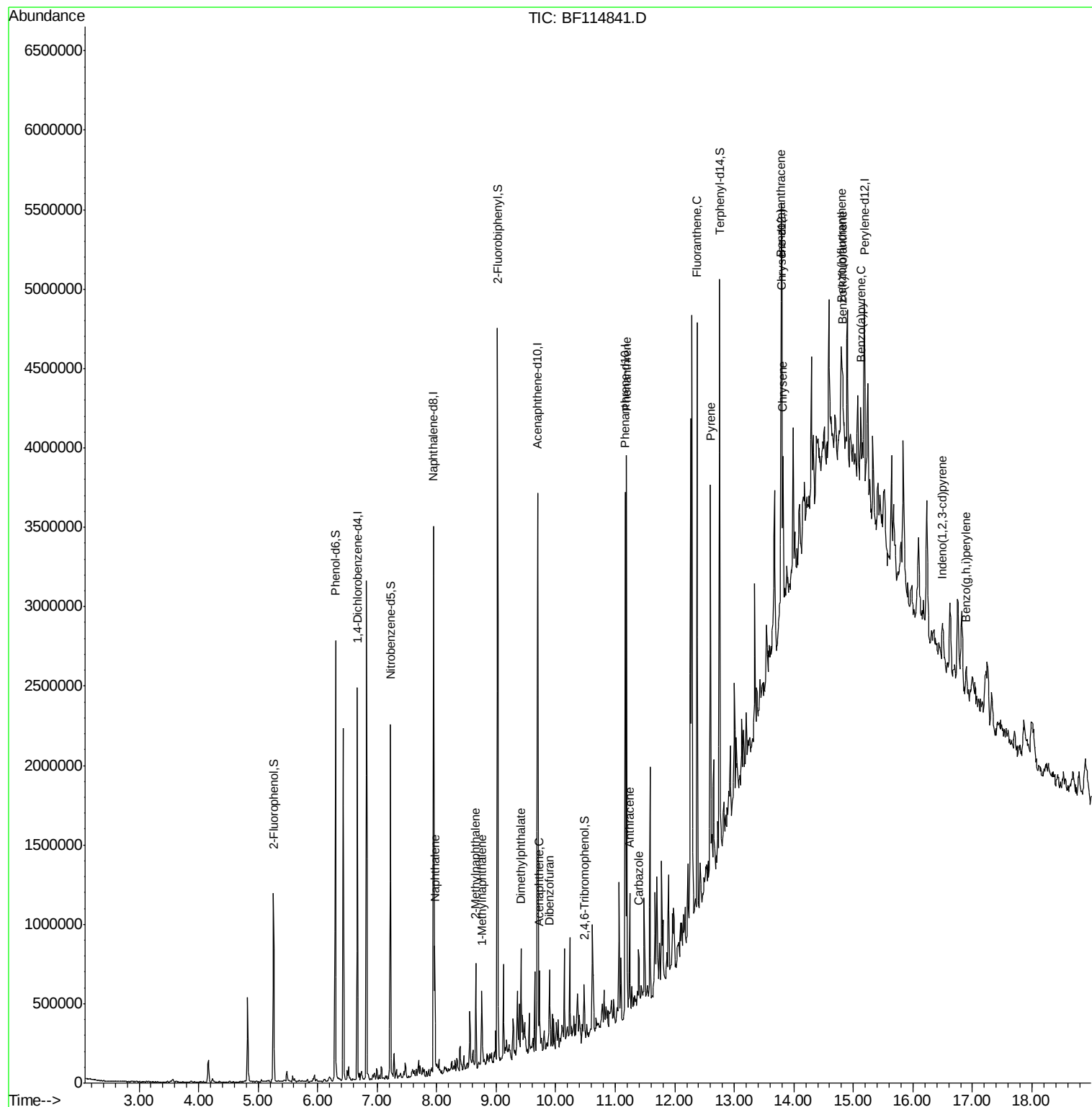
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060519\
Data File : BF114841.D
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ALS Vial : 20 Sample Multiplier: 1

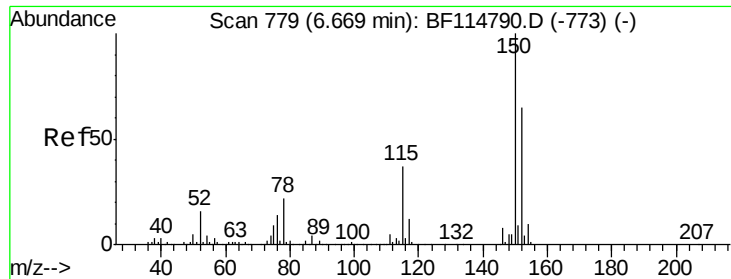
Instrument :
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#1

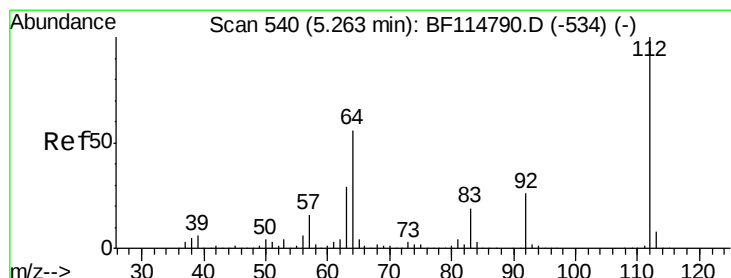
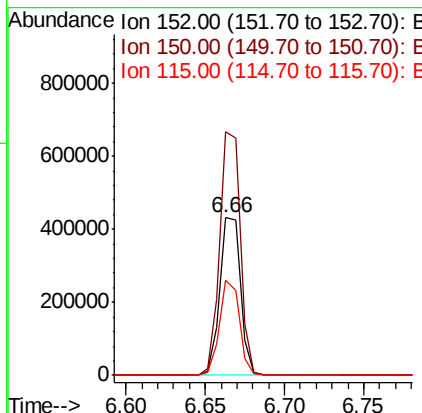
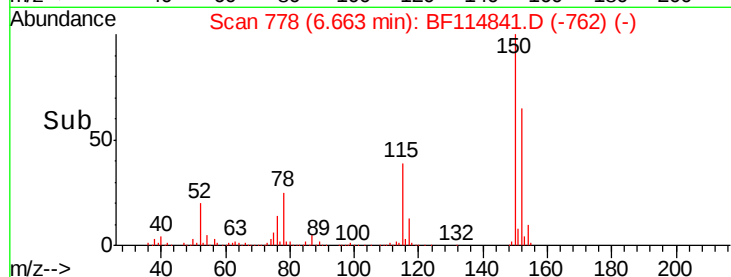
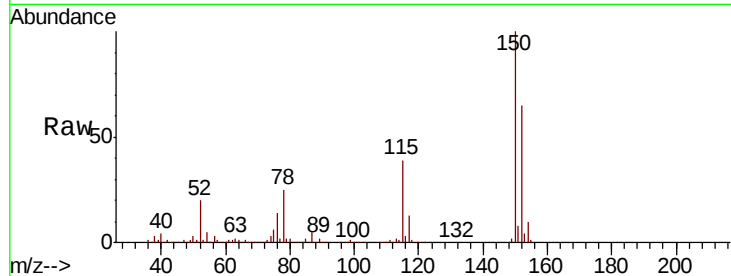
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.66 min Scan# 778
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.0	186.0
115	60.7	46.3	69.5

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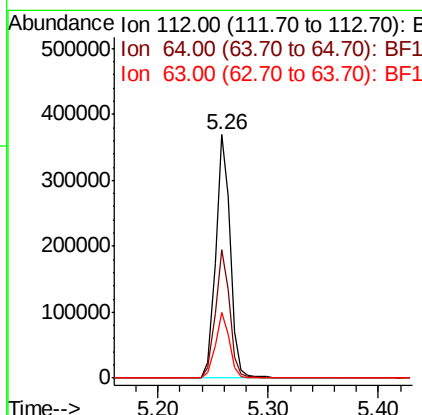
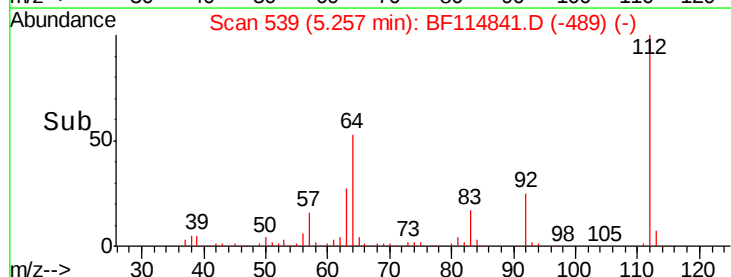
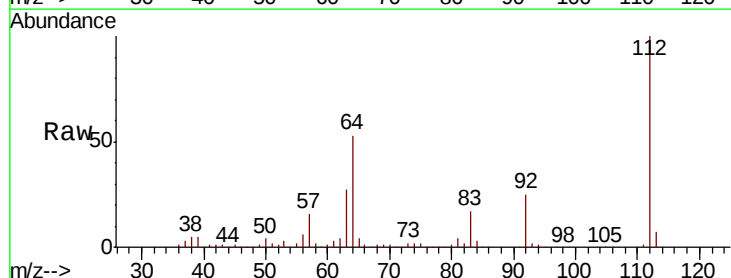
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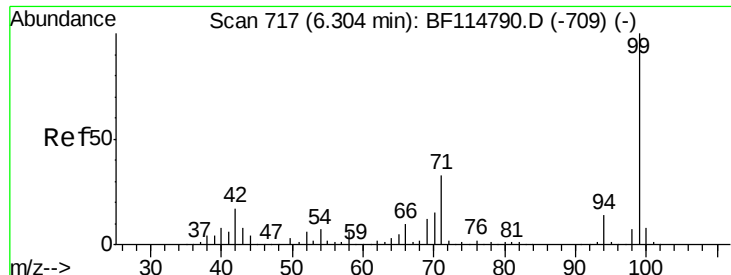


#5

2-Fluorophenol
Concen: 15.001 ng
RT: 5.26 min Scan# 539
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.5	44.6	66.8
63	26.8	23.0	34.4





#7

Phenol-d6

Concen: 35.339 ng

RT: 6.30 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

Instrument :

BNA_F

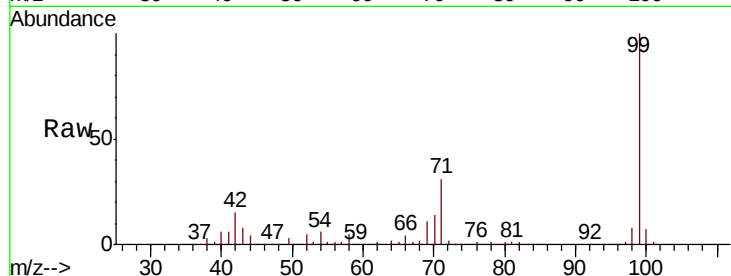
ClientSampleId :

FK-SF-03-008-B

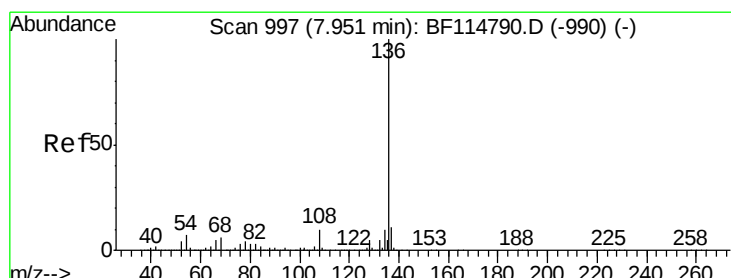
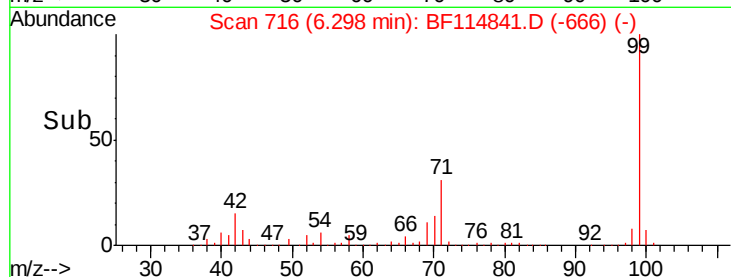
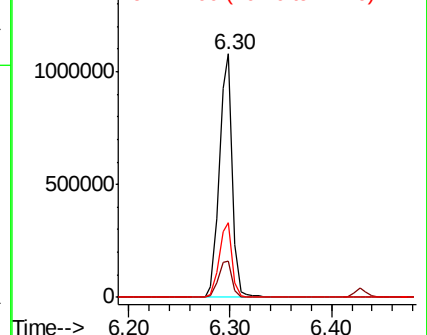
Tot Ion:	99	Resp:	958482
Ion Ratio	Lower	Upper	
99	100		
42	15.0	13.3	19.9
71	30.5	26.3	39.5

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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# 996

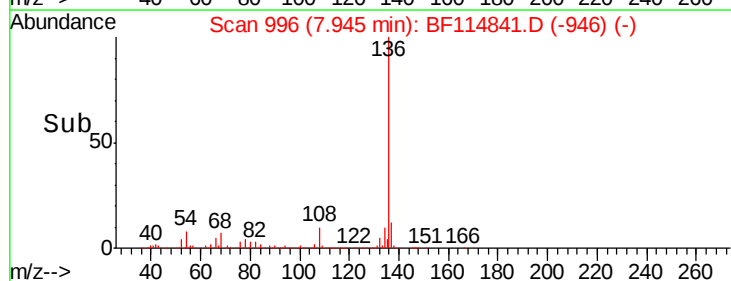
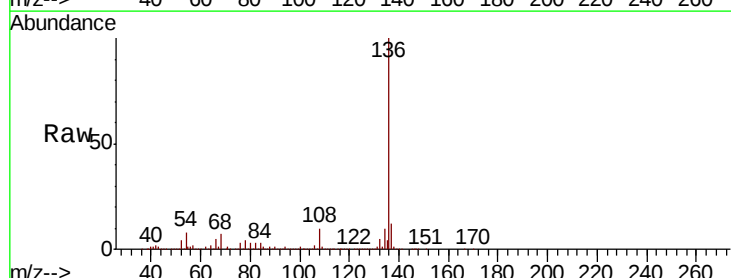
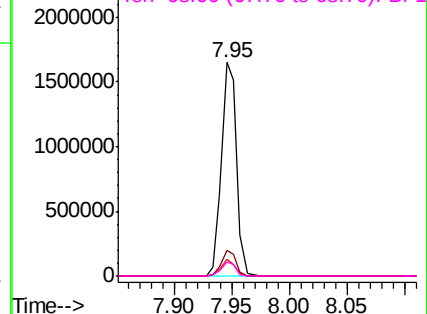
Delta R.T. -0.01 min

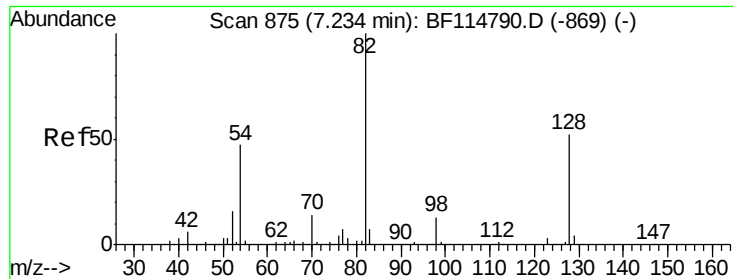
Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

Tgt Ion:	136	Resp:	1497299
Ion Ratio	Lower	Upper	
136	100		
137	11.9	9.1	13.7
54	7.6	5.4	8.0
68	6.5	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





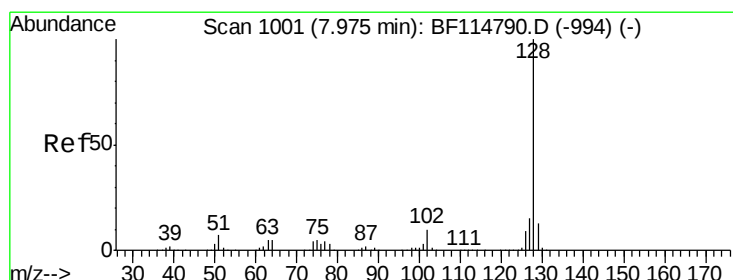
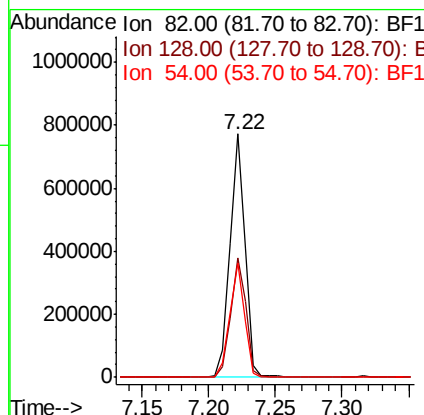
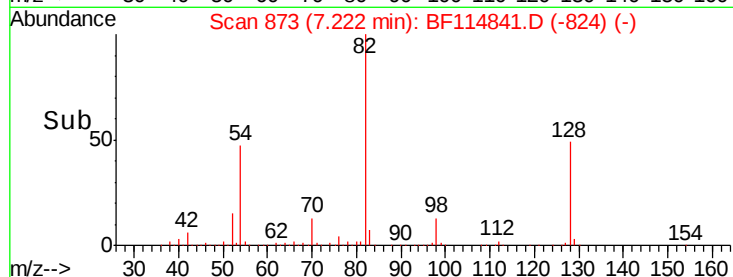
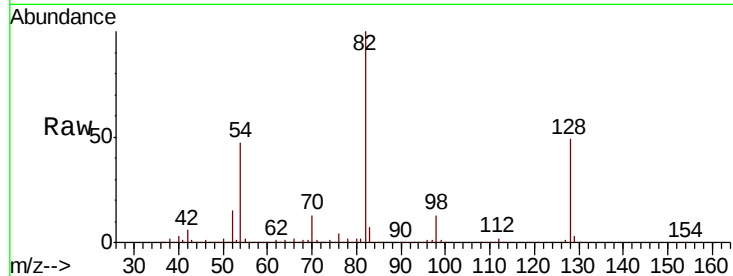
#23
Nitrobenzene-d5
Concen: 25.652 ng
RT: 7.22 min Scan# 873
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.1	41.8	62.6
54	46.8	37.9	56.9

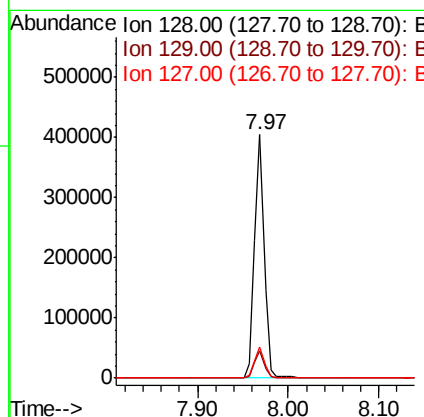
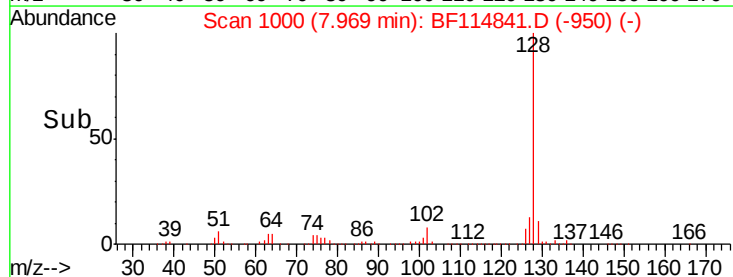
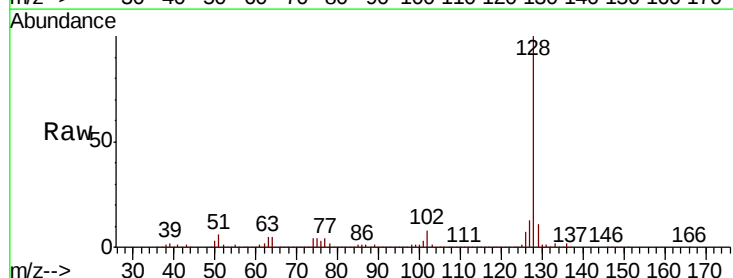
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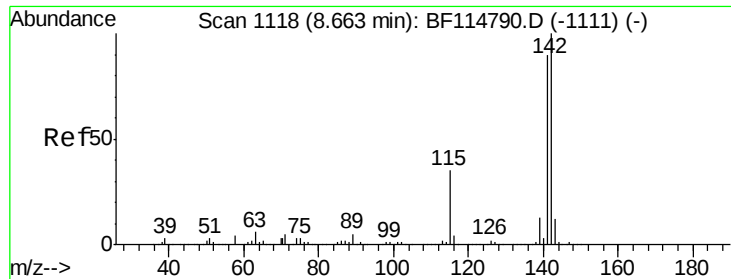
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#31
Naphthalene
Concen: 4.410 ng
RT: 7.97 min Scan# 1000
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	10.0	15.0
127	12.7	12.2	18.2





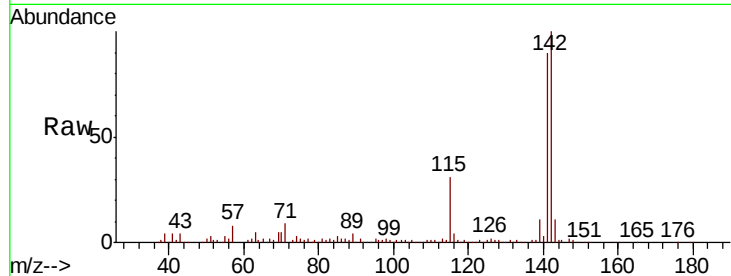
#37
2-Methylnaphthalene
Concen: 3.286 ng
RT: 8.66 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Resp	Lower	Upper
142	100	153616		
141	89.9	71.6	107.4	
115	30.8	28.2	42.4	

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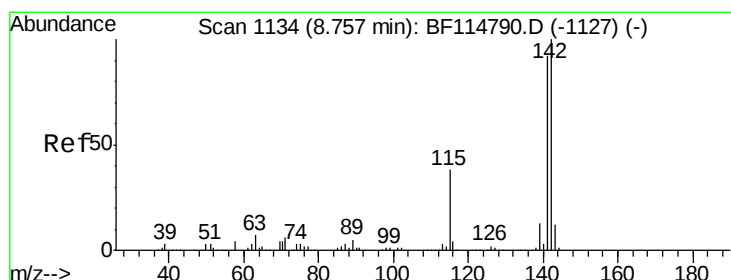
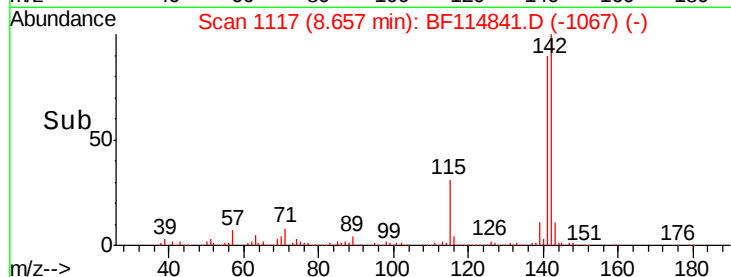
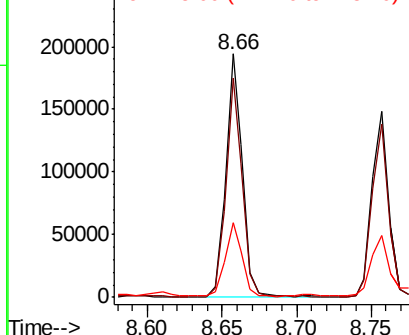


Abundance

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
1-Methylnaphthalene
Concen: 2.631 ng
RT: 8.76 min Scan# 1134
Delta R.T. 0.00 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

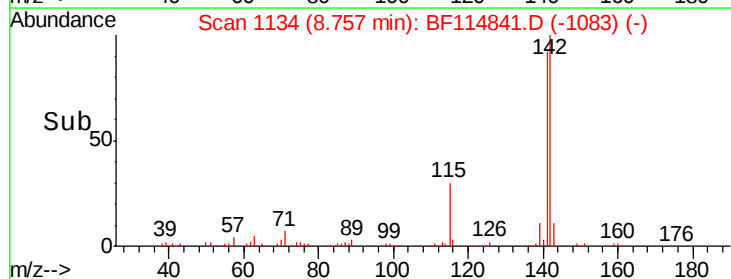
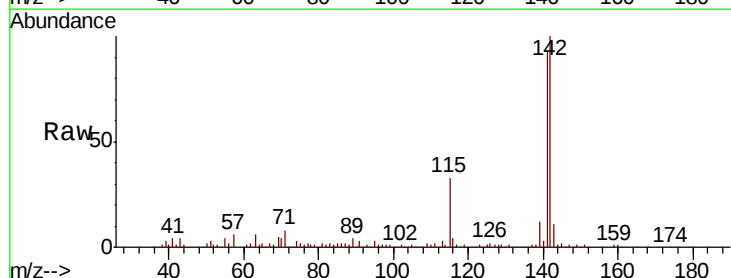
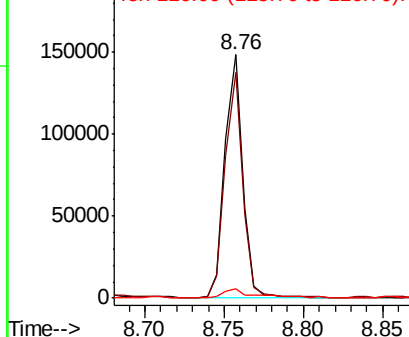
Tgt Ion	Ratio	Resp	Lower	Upper
142	100	116660		
141	92.8	73.8	110.6	
116	4.0	3.3	4.9	

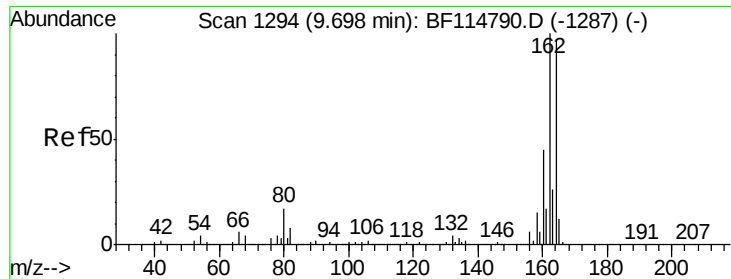
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





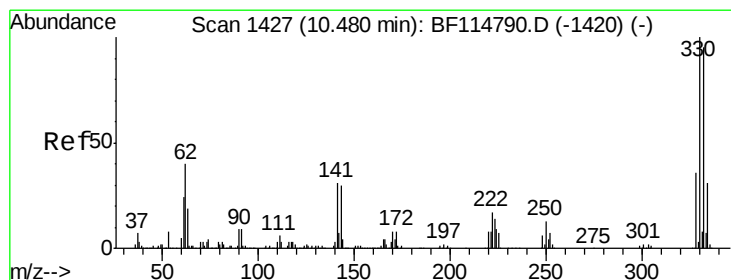
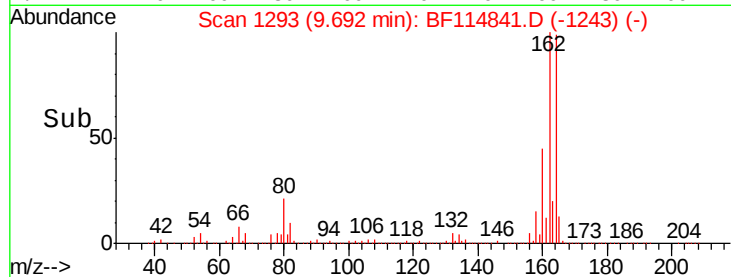
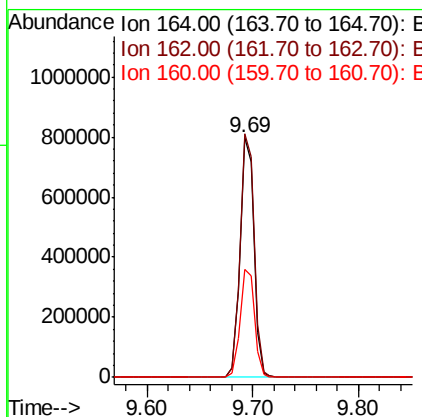
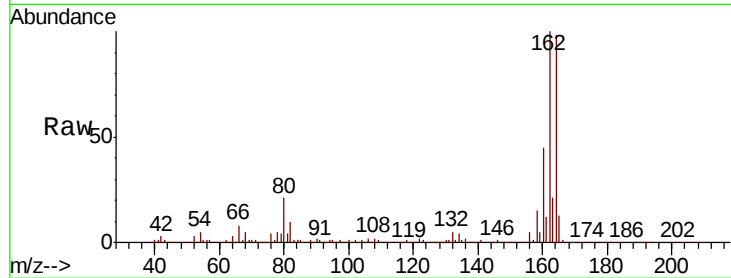
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.3	123.5
160	45.3	36.7	55.1

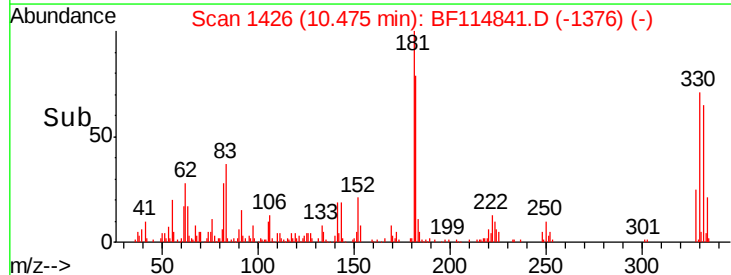
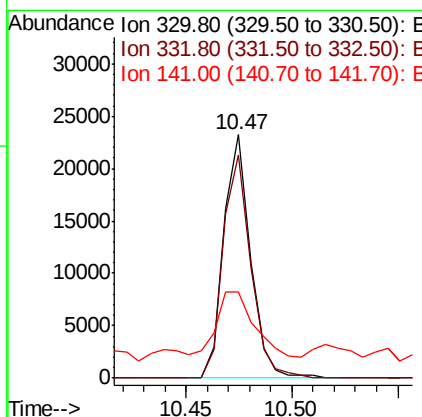
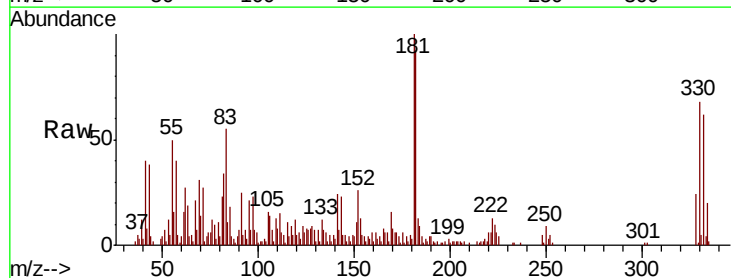
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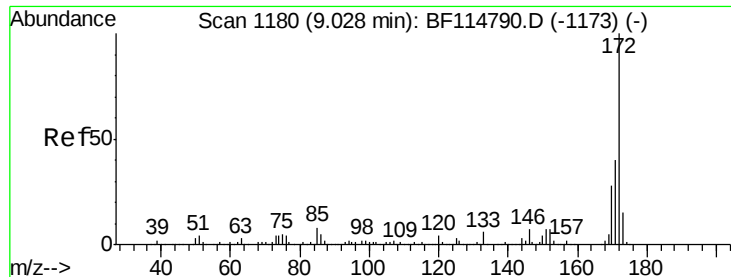
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#42
2,4,6-Tribromophenol
Concen: 2.656 ng
RT: 10.47 min Scan# 1426
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.4	77.3	115.9
141	37.7	26.2	39.4





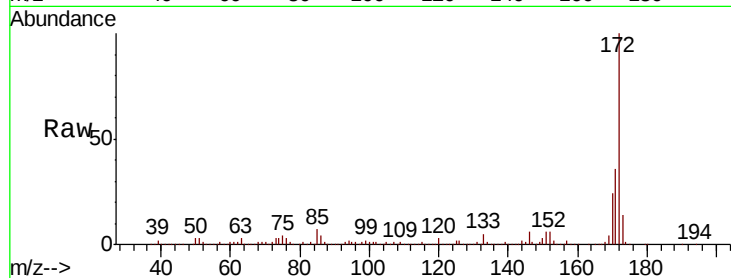
#45
2-Fluorobiphenyl
Concen: 34.697 ng
RT: 9.02 min Scan# 1179
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	32.3	48.5
170	24.5	22.4	33.6

Manual Integrations
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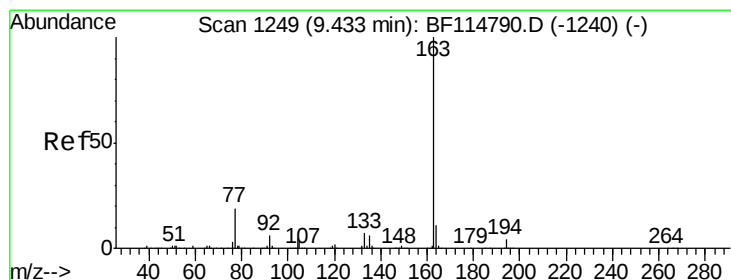
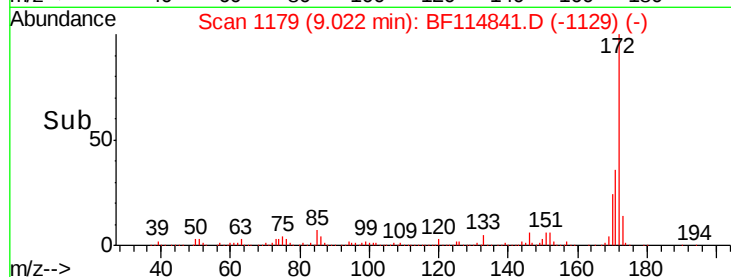
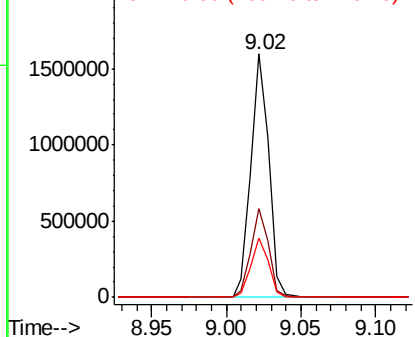


Abundance

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: 4.245 ng
RT: 9.42 min Scan# 1246
Delta R.T. -0.02 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

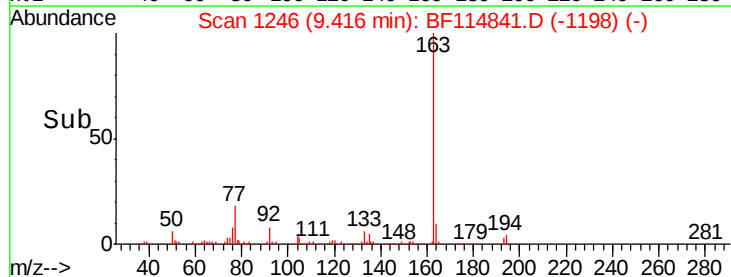
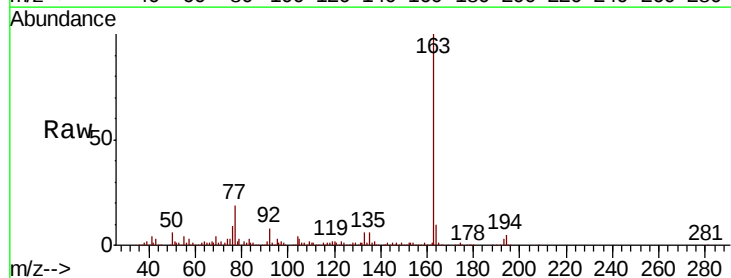
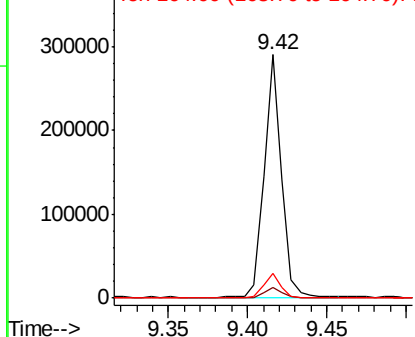
Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.4	5.2
164	10.0	8.6	13.0

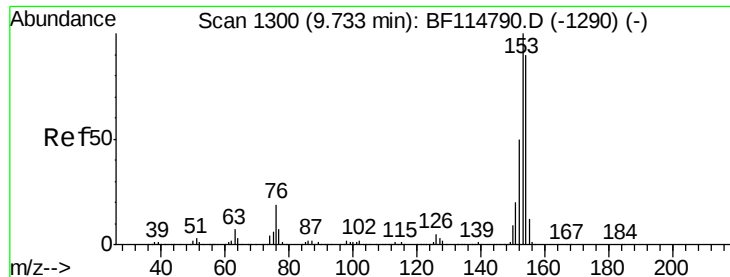
Abundance

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





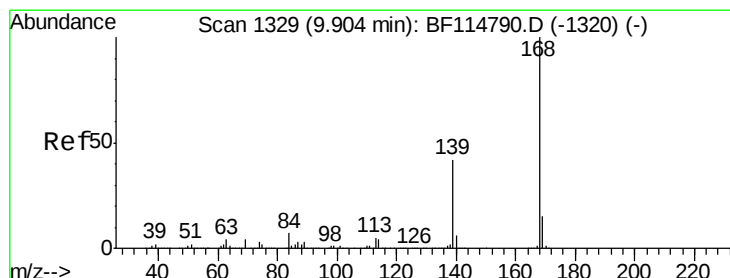
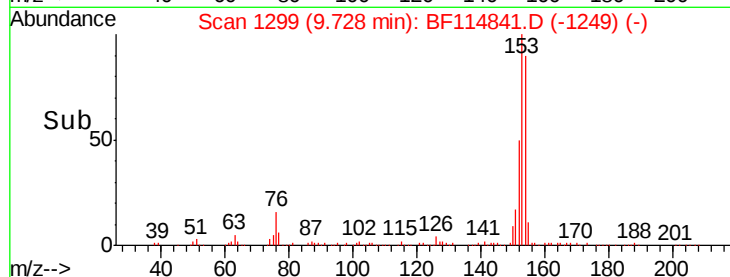
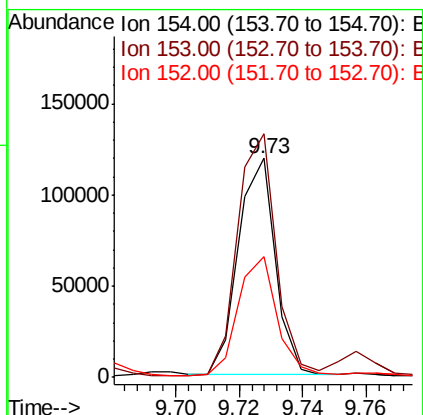
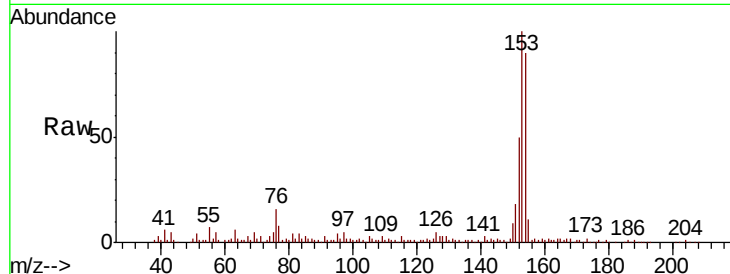
#52
Acenaphthene
Concen: 2.243 ng
RT: 9.73 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
154	100		
153	111.1	88.5	132.7
152	55.4	44.1	66.1

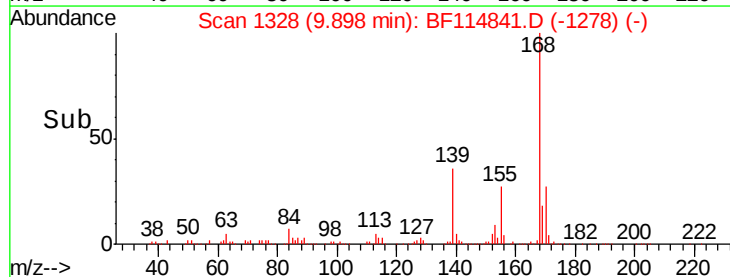
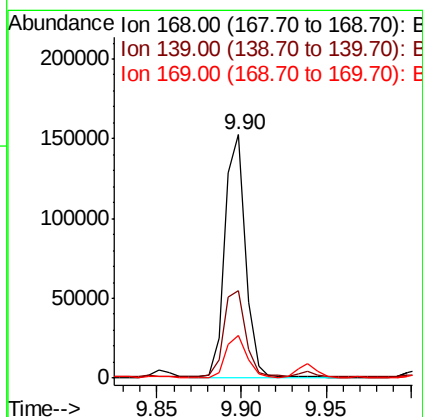
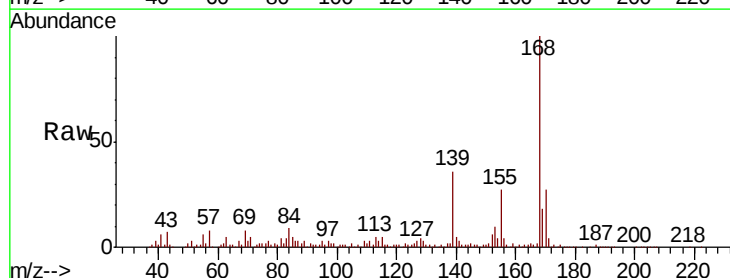
Manual Integrations
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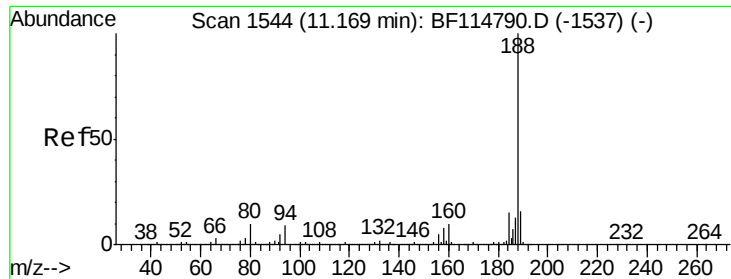
mohammad
6/6/2019 4:50:44 PM



#55
Dibenzofuran
Concen: 2.188 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
168	100		
139	36.1	33.8	50.6
169	17.6	11.9	17.9





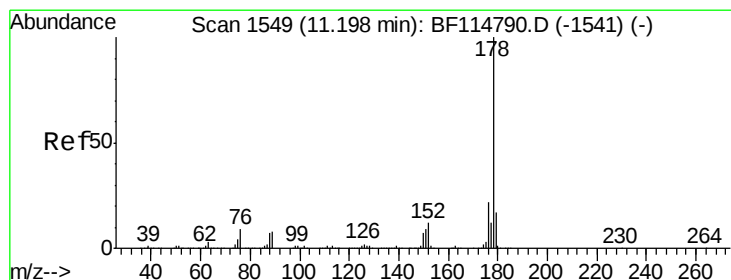
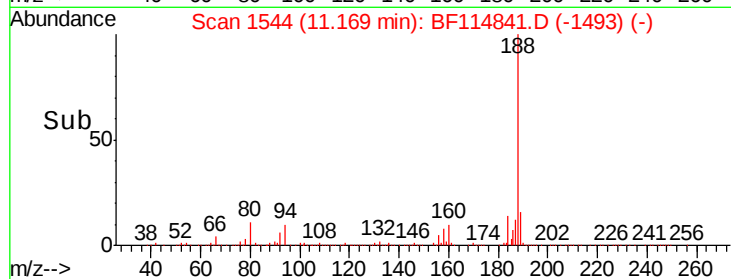
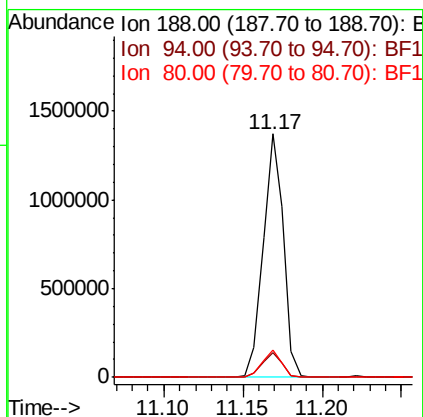
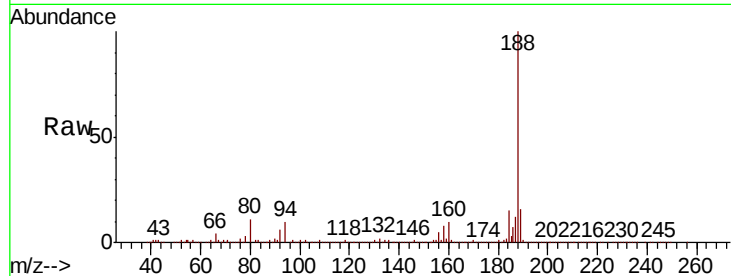
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.17 min Scan# 1544
Delta R.T. 0.00 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.6	11.4
80	11.0	8.3	12.5

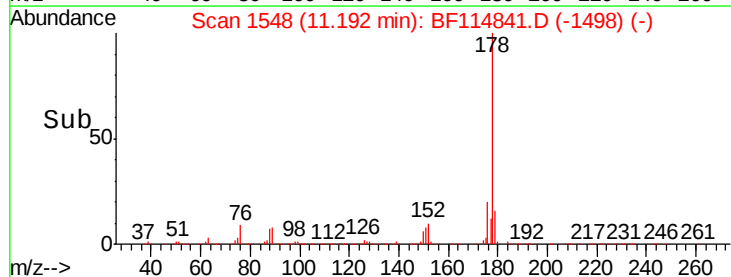
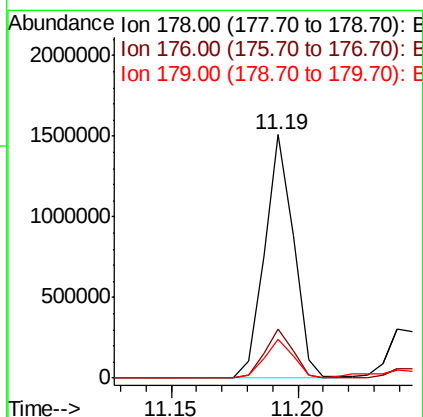
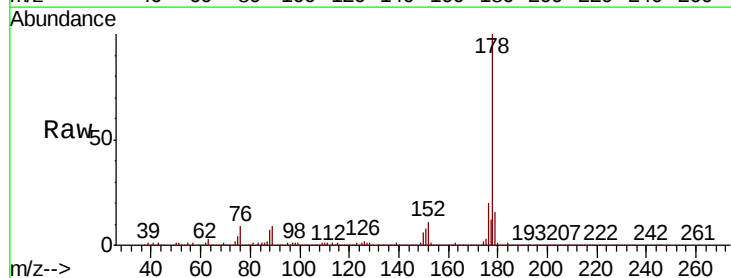
Manual Integrations
APPROVED

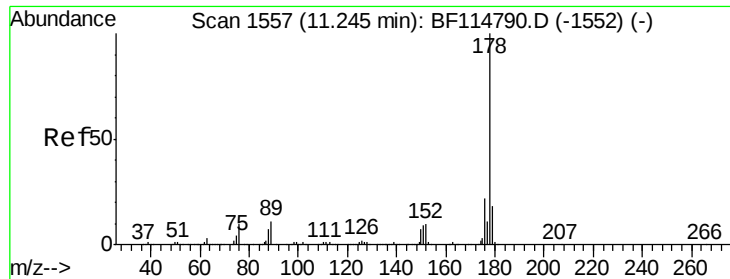
mohammad
6/6/2019 4:50:44 PM



#71
Phenanthrene
Concen: 20.510 ng
RT: 11.19 min Scan# 1548
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	17.7	26.5
179	16.2	13.7	20.5





#72

Anthracene

Concen: 4.389 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

Instrument :

BNA_F

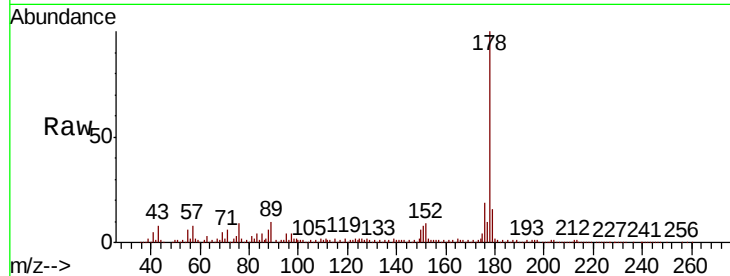
ClientSampleId :

FK-SF-03-008-B

Tot Ion:	178	Resp:	269602
Ion Ratio	Lower	Upper	
178	100		
176	18.9	17.4	26.0
179	16.1	14.2	21.4

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6/6/2019 4:50:44 PM

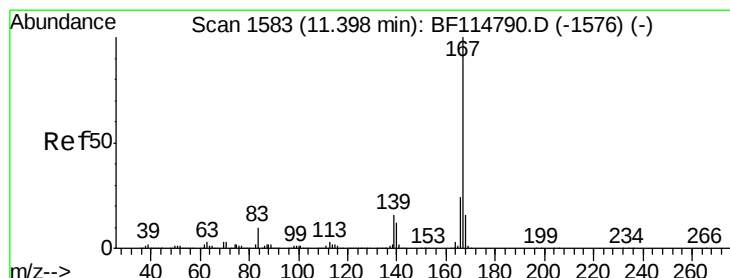
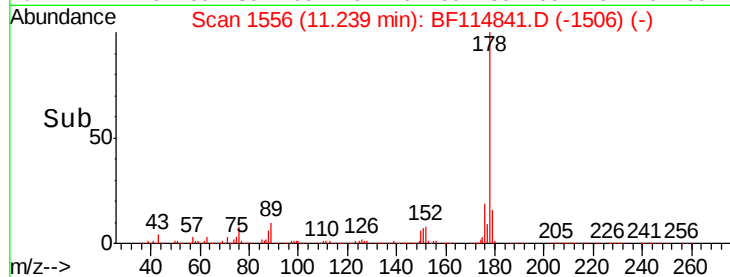
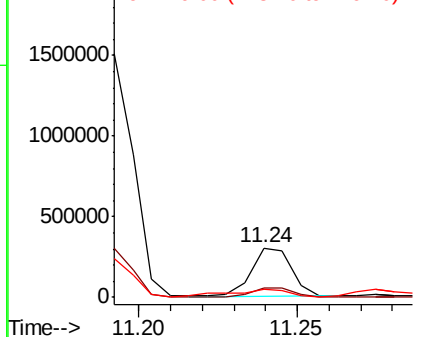


Abundance

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



#73

Carbazole

Concen: 2.696 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

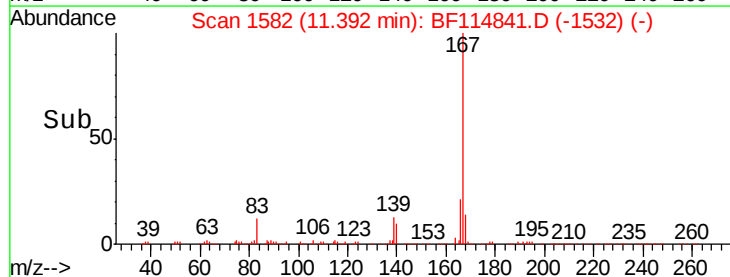
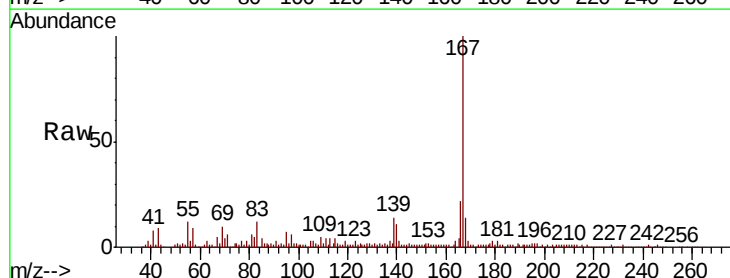
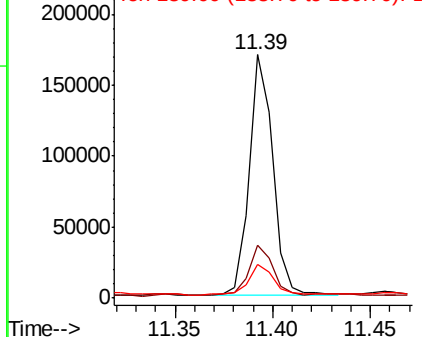
Tgt Ion:	167	Resp:	141985
Ion Ratio	Lower	Upper	
167	100		
166	21.9	19.1	28.7
139	13.7	12.4	18.6

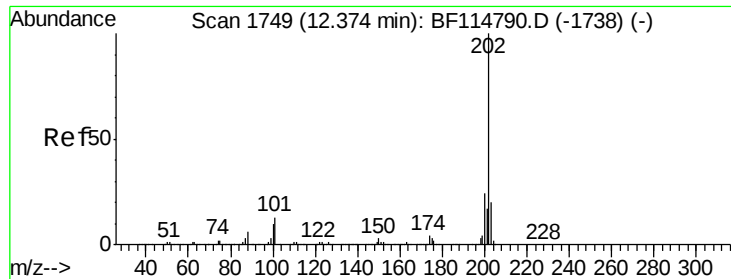
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 19.674 ng

RT: 12.37 min Scan# 1749

Delta R.T. 0.00 min

Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

Instrument :

BNA_F

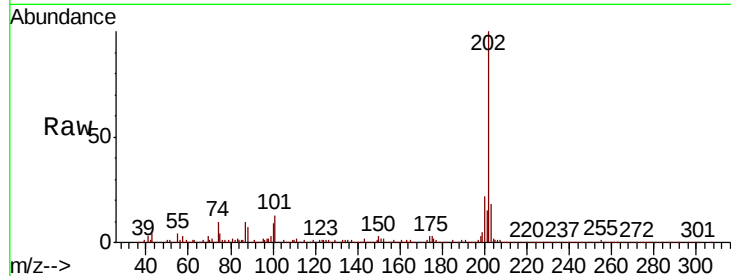
ClientSampleId :

FK-SF-03-008-B

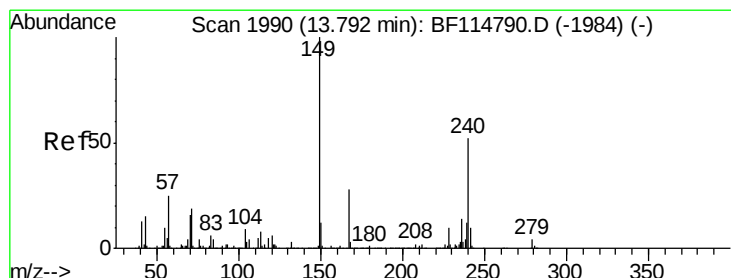
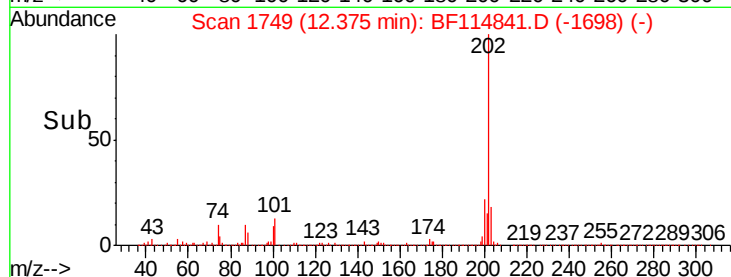
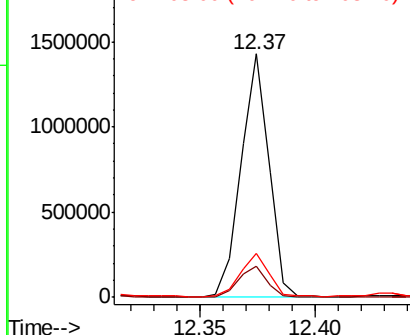
Tot Ion:	202	Resp:	1195150
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	32.8
203	18.2	0.2	40.2

Manual Integrations
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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

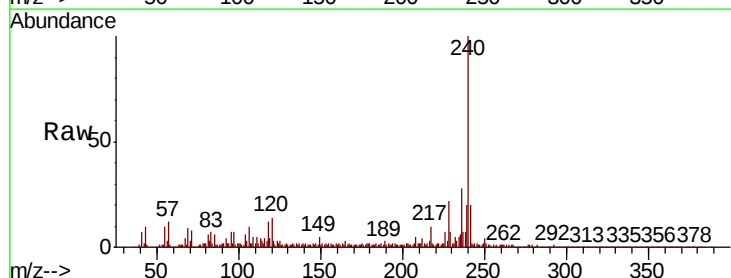
RT: 13.79 min Scan# 1990

Delta R.T. 0.00 min

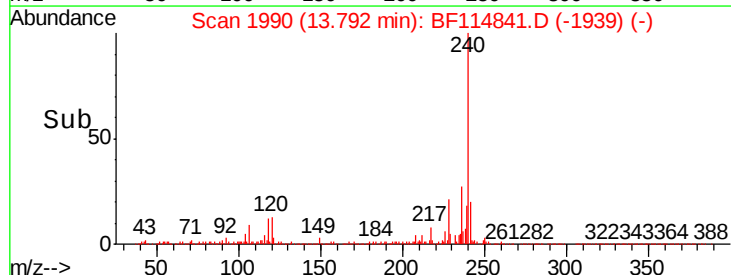
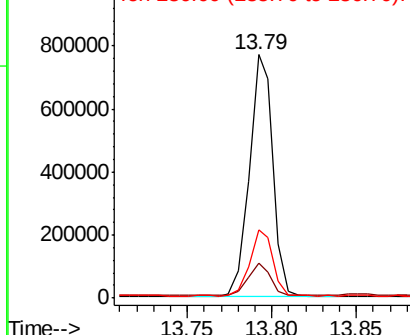
Lab File: BF114841.D

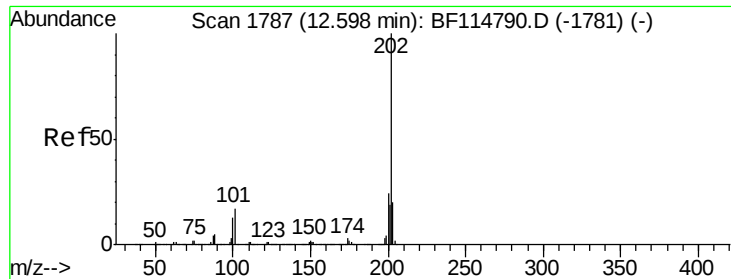
Acq: 6 Jun 2019 1:42

Tgt Ion:	240	Resp:	746419
Ion	Ratio	Lower	Upper
240	100		
120	14.2	9.0	13.4#
236	28.0	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





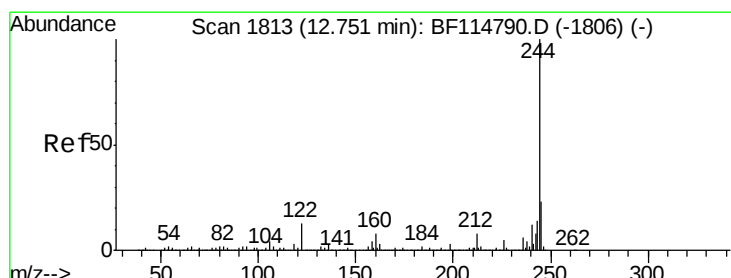
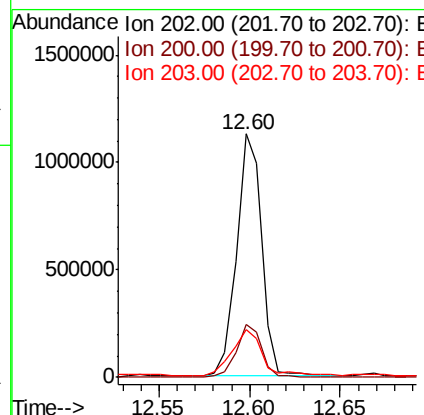
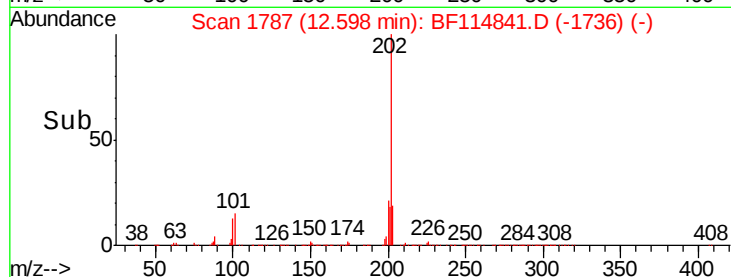
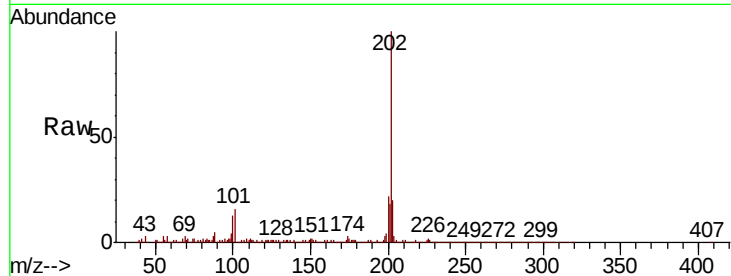
#78
Pvrene
Concen: 16.760 ng
RT: 12.60 min Scan# 1787
Delta R.T. 0.00 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	19.2	28.8
203	19.6	15.9	23.9

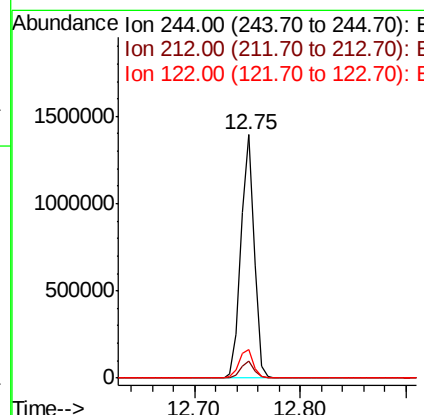
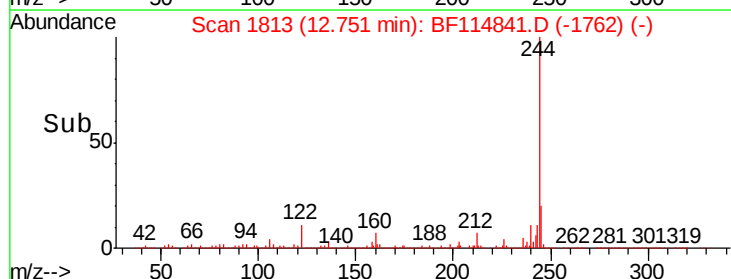
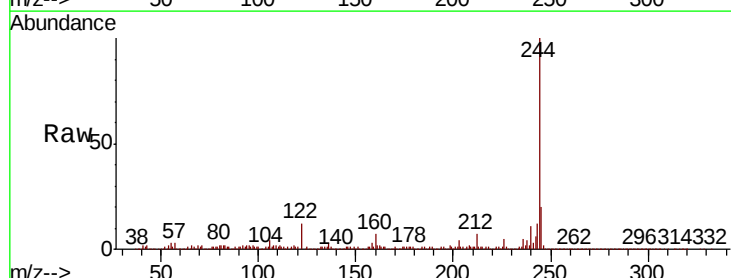
Manual Integrations
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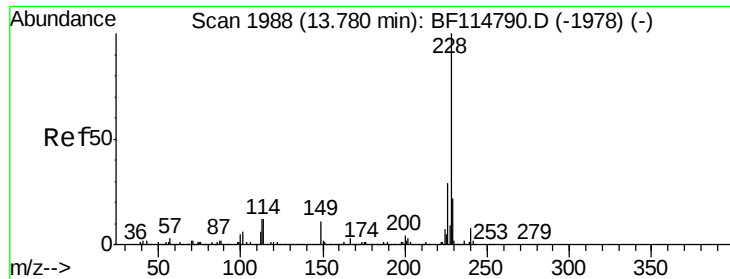
mohammad
6/6/2019 4:50:44 PM



#79
Terphenyl-d14
Concen: 30.776 ng
RT: 12.75 min Scan# 1813
Delta R.T. 0.00 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.5	9.7
122	11.6	10.5	15.7





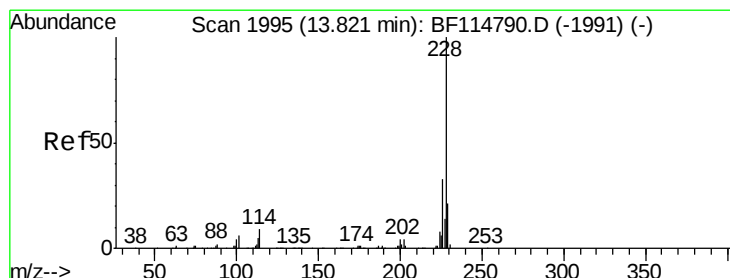
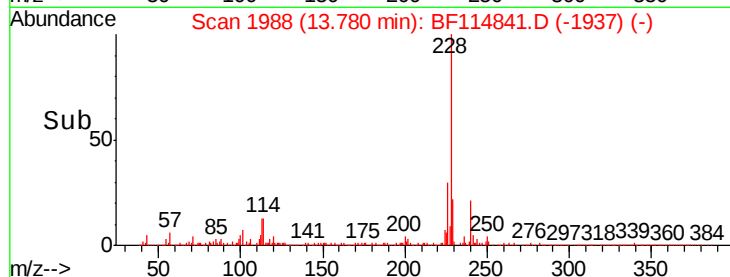
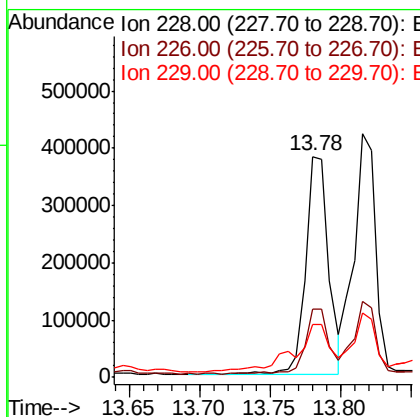
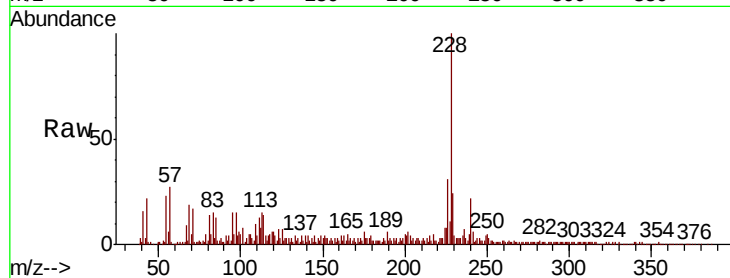
#81
Benzo(a)anthracene
Concen: 7.529 ng
RT: 13.78 min Scan# 1988
Delta R.T. 0.00 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.4	35.2
229	23.7	17.4	26.0

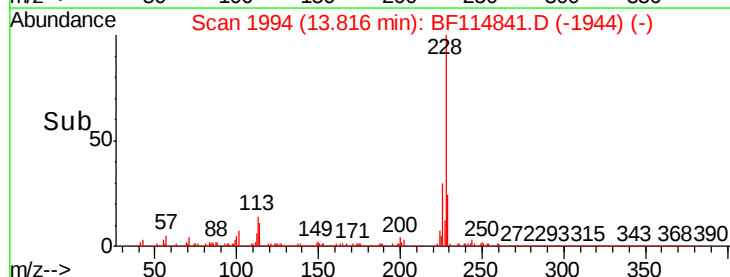
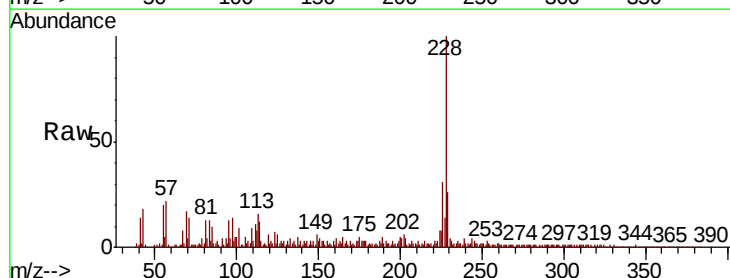
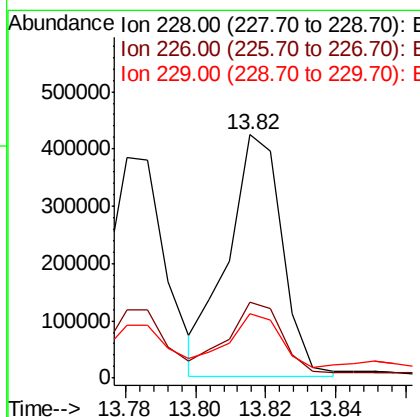
Manual Integrations
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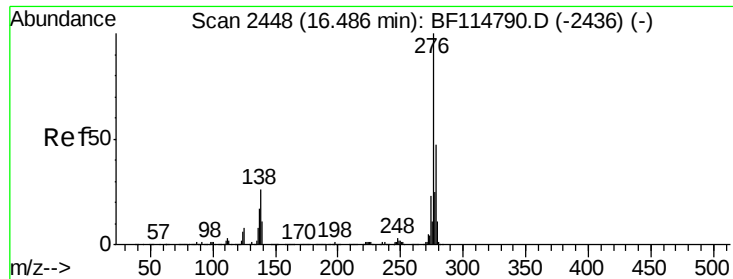
mohammad
6/6/2019 4:50:44 PM



#83
Chrysene
Concen: 8.073 ng m
RT: 13.82 min Scan# 1994
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	26.0	39.0
229	26.3	17.1	25.7





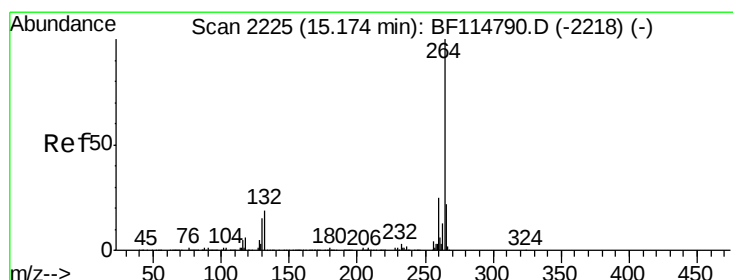
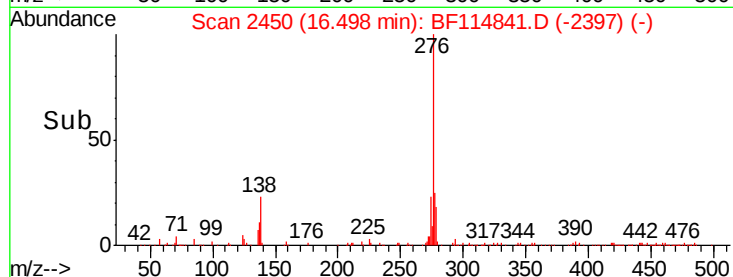
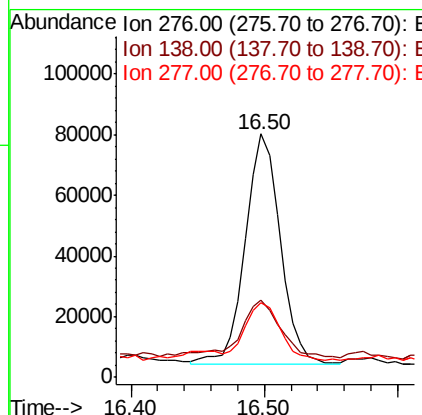
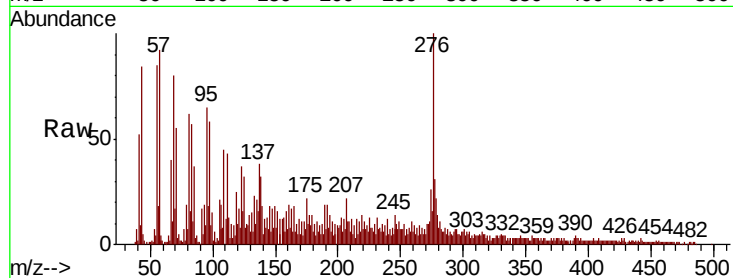
#86
Indeno(1,2,3-cd)pyrene
Concen: 2.170 ng
RT: 16.50 min Scan# 2450
Delta R.T. 0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	30.1	22.2	33.4	
277	25.2	20.6	30.8	

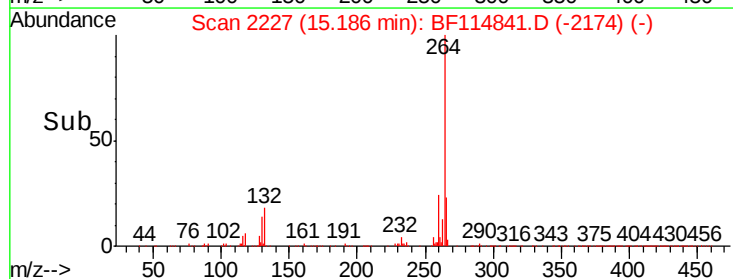
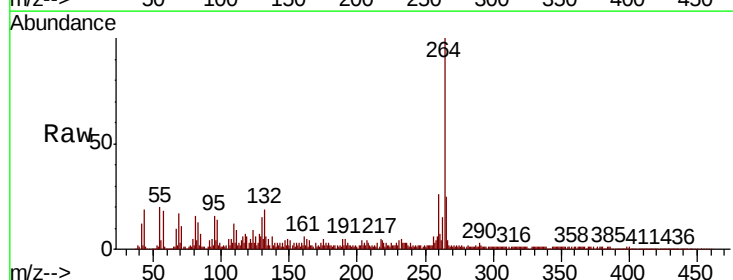
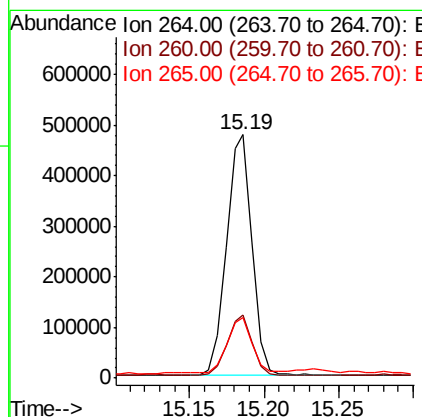
Manual Integrations
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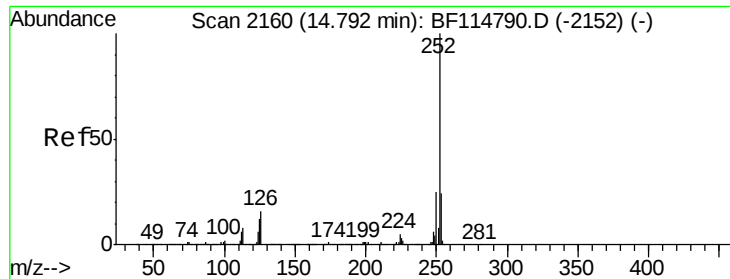
mohammad
6/6/2019 4:50:44 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.19 min Scan# 2227
Delta R.T. 0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	25.8	20.1	30.1	
265	24.8	17.7	26.5	





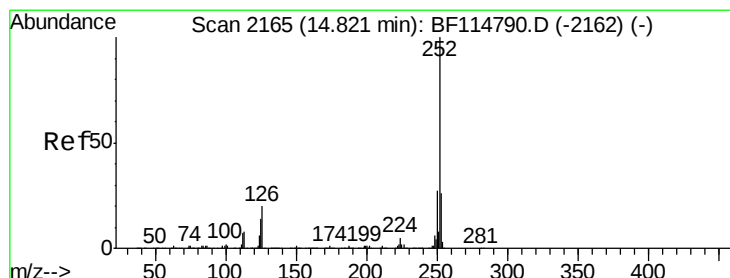
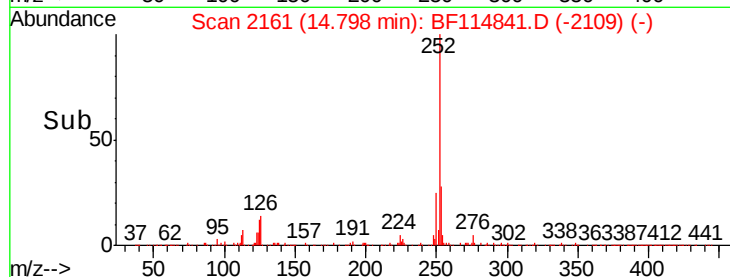
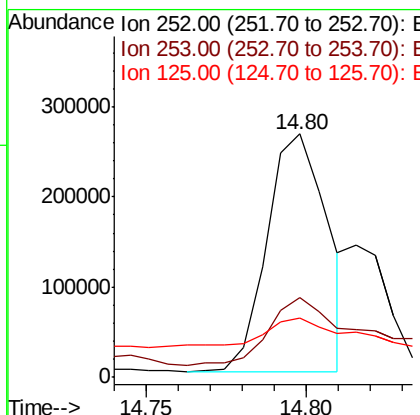
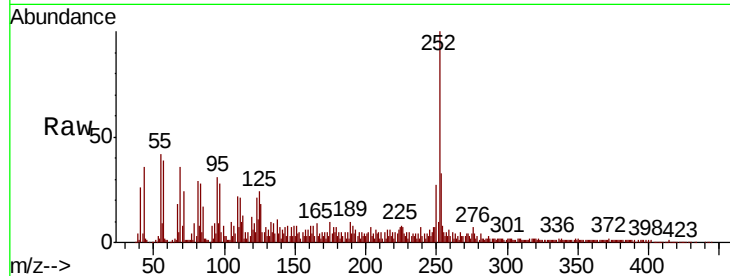
#88
Benzo(b)fluoranthene
Concen: 9.508 ng m
RT: 14.80 min Scan# 2161
Delta R.T. 0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Instrument :
BNA_F
ClientSampleId :
FK-SF-03-008-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	32.8	19.0	28.6#
125	24.2	9.4	14.0#

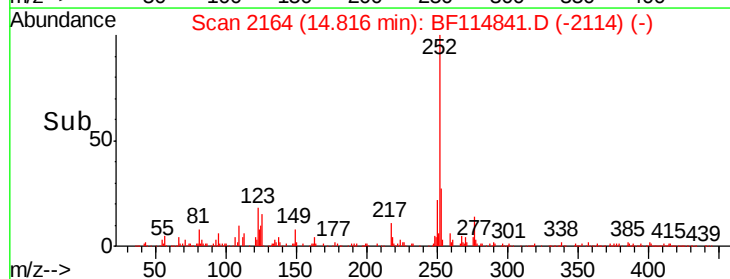
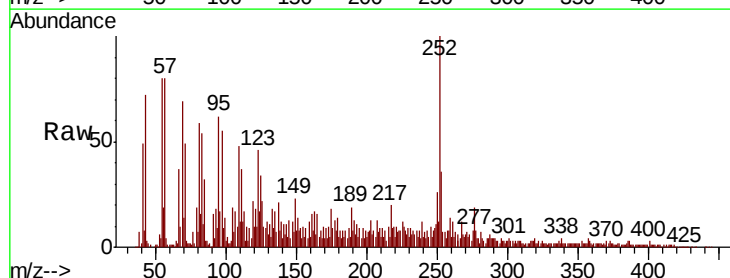
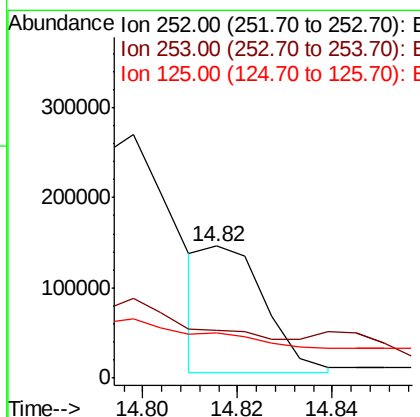
Manual Integrations
APPROVED

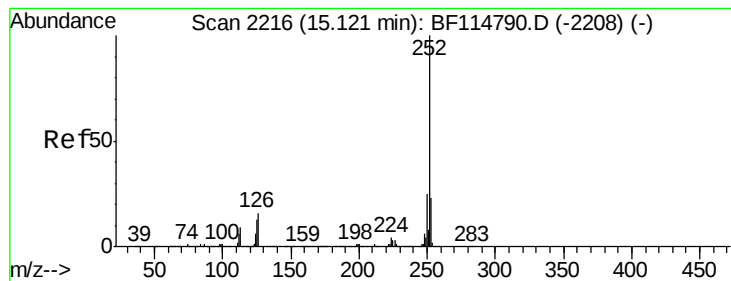
mohammad
6/6/2019 4:50:44 PM



#89
Benzo(k)fluoranthene
Concen: 3.974 ng m
RT: 14.82 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF114841.D
Acq: 6 Jun 2019 1:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	36.2	19.3	28.9#
125	34.4	10.1	15.1#





#90

Benzo(a)pyrene

Concen: 7.448 ng

RT: 15.13 min Scan# 2217

Delta R.T. 0.01 min

Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

Instrument :

BNA_F

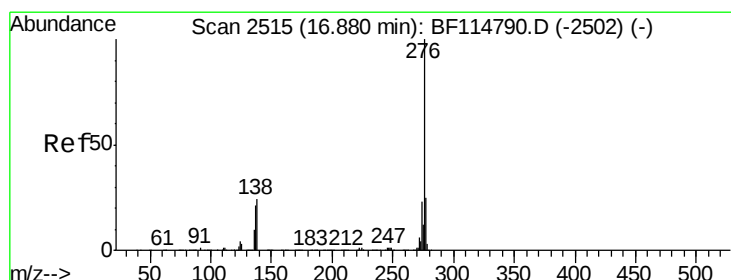
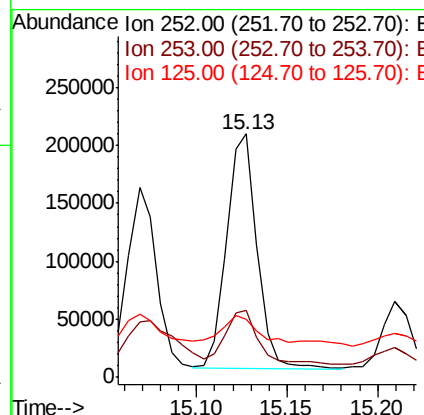
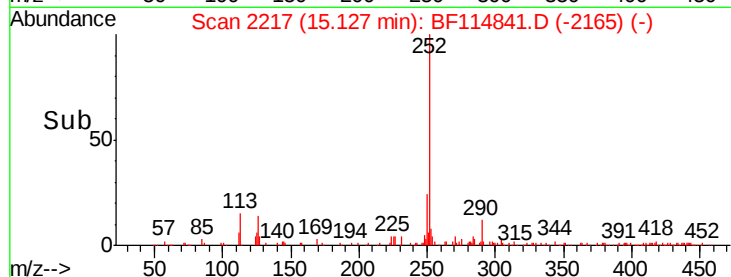
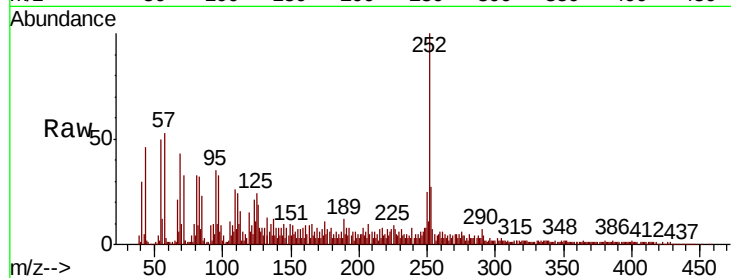
ClientSampleId :

FK-SF-03-008-B

Tot Ion:	252	Resp:	235751
Ion Ratio	Lower	Upper	
252	100		
253	27.3	18.5	27.7
125	24.0	10.1	15.1#

Manual Integrations
APPROVED

mohammad
6/6/2019 4:50:44 PM



#92

Benzo(g,h,i)perylene

Concen: 4.588 ng

RT: 16.89 min Scan# 2517

Delta R.T. 0.01 min

Lab File: BF114841.D

Acq: 6 Jun 2019 1:42

Tgt Ion:	276	Resp:	138300
Ion Ratio	Lower	Upper	
276	100		
277	29.6	19.8	29.6
138	34.1	19.4	29.2#

