

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
 Data File : BF118137.D
 Acq On : 7 Dec 2019 18:58
 Operator : JU
 Sample : K6147-06
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-WC006

Manual Integrations
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 12/10/2019 11:49:17 AM

Quant Time: Dec 09 07:17:26 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	128726	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	516865	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	267789	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	448872	20.00	ng	0.00
76) Chrysene-d12	14.09	240	235704	20.00	ng	0.02
87) Perylene-d12	15.58	264	285355	20.00	ng	0.03

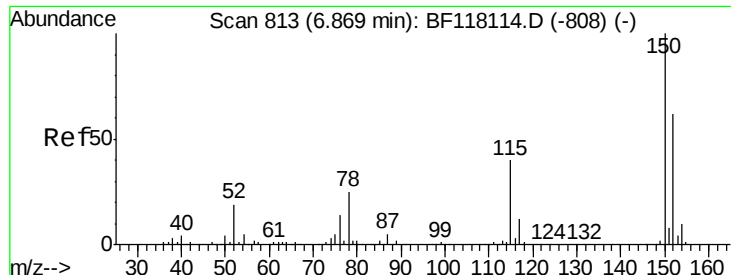
System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	780762	106.23	ng	0.00
7) Phenol-d6	6.50	99	998680	112.34	ng	0.00
23) Nitrobenzene-d5	7.43	82	596464	64.92	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	310315	95.39	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	1200202	68.20	ng	0.00
79) Terphenyl-d14	13.00	244	1130307	82.46	ng	0.00

Target Compounds

						Qvalue
37) 2-Methylnaphthalene	8.87	142	44222	2.516	ng	99
38) 1-Methylnaphthalene	8.97	142	47006	2.849	ng	96
49) Acenaphthylene	9.77	152	175838	7.017	ng	99
50) Dimethylphthalate	9.62	163	130919	6.619	ng	98
52) Acenaphthene	9.95	154	623369	40.757	ng	98
55) Dibenzofuran	10.12	168	350174	15.625	ng	98
58) Fluorene	10.46	166	515122	28.924	ng	98
71) Phenanthrene	11.46	178	5959602	249.758	ng	94
72) Anthracene	11.50	178	2166058	90.997	ng	97
73) Carbazole	11.64	167	323685	15.156	ng	99
75) Fluoranthene	12.67	202	10444605	428.126	ng	92
78) Pyrene	12.90	202	8397129	452.078	ng	93
81) Benzo(a)anthracene	14.08	228	4861556	298.288	ng	95
83) Chrysene	14.12	228	4084697m	262.370	ng	
86) Indeno(1,2,3-cd)pyrene	17.12	276	1966371	150.111	ng	96
88) Benzo(b)fluoranthene	15.16	252	5661790m	300.003	ng	
89) Benzo(k)fluoranthene	15.18	252	1218440m	67.205	ng	
90) Benzo(a)pyrene	15.54	252	3421110	205.250	ng	96
91) Dibenzo(a,h)anthracene	17.12	278	551418	38.571	ng	93
92) Benzo(a,h,i)perylene	17.57	276	1593325	115.981	ng	97

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



#1

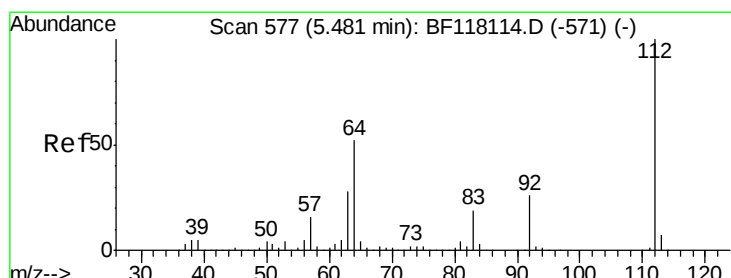
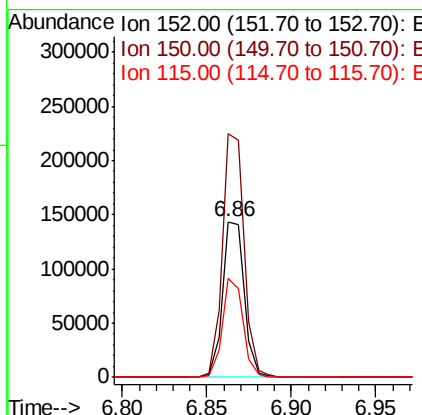
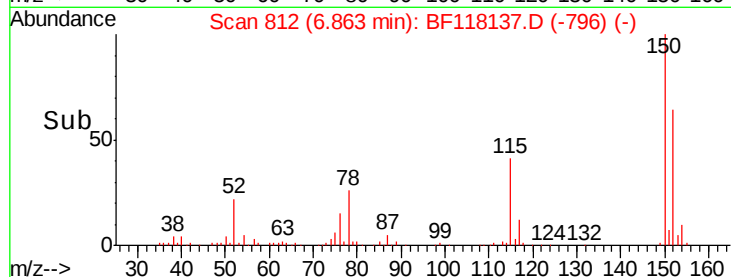
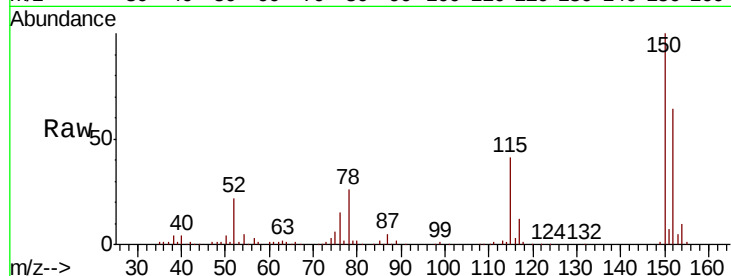
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.4	128.3	192.5
115	63.6	51.1	76.7

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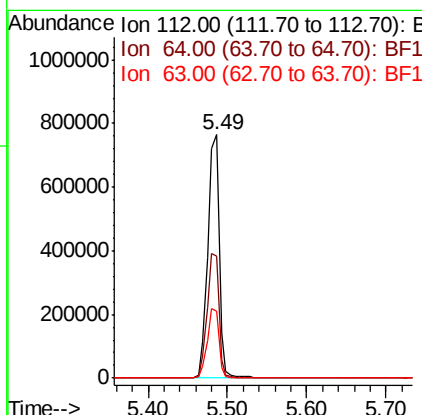
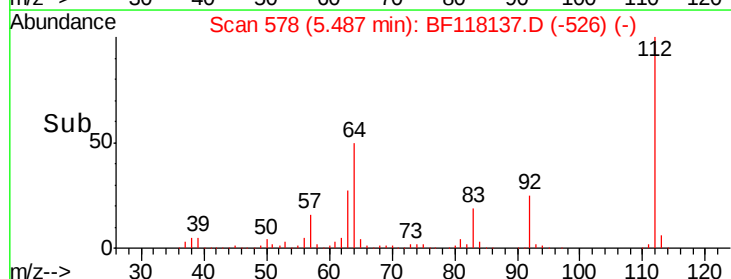
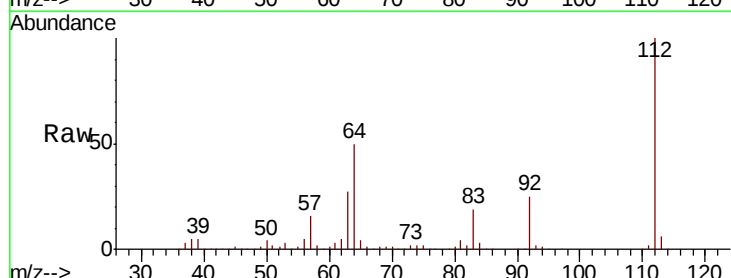
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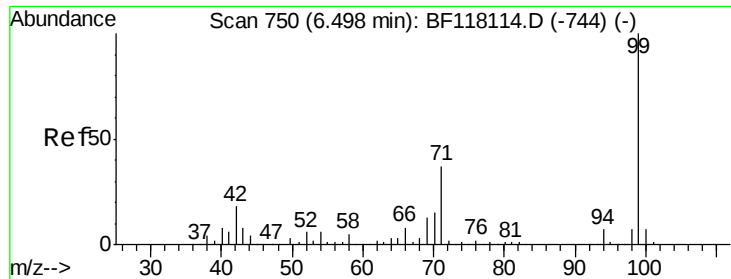


#5

2-Fluorophenol
Concen: 106.232 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.9	41.3	61.9
63	27.4	22.4	33.6





#7

Phenol-d6

Concen: 112.343 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

Instrument :

BNA_F

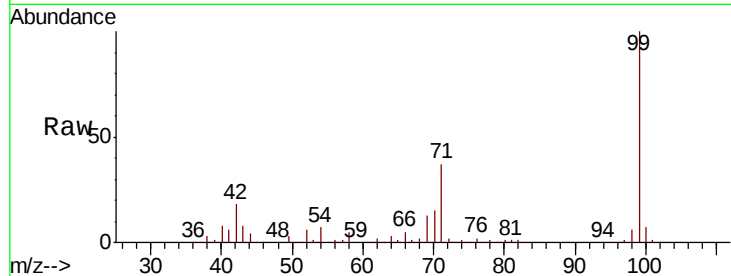
ClientSampled :

P001-WC006

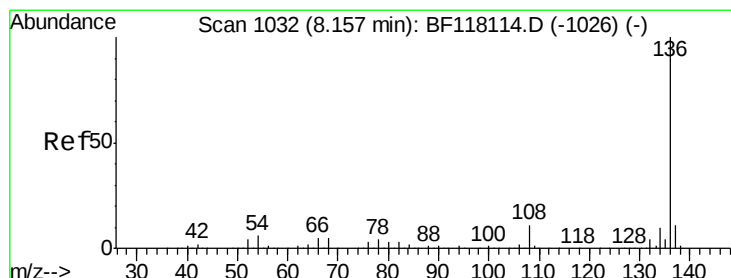
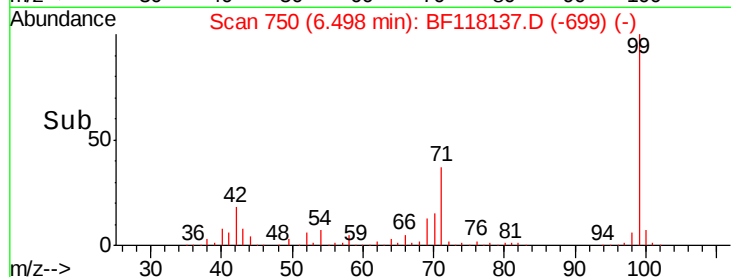
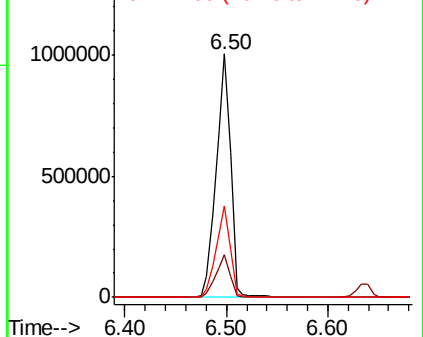
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		998680		
42	17.7	14.1	21.1		
71	37.5	29.7	44.5		

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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: 8.15 min Scan# 1031

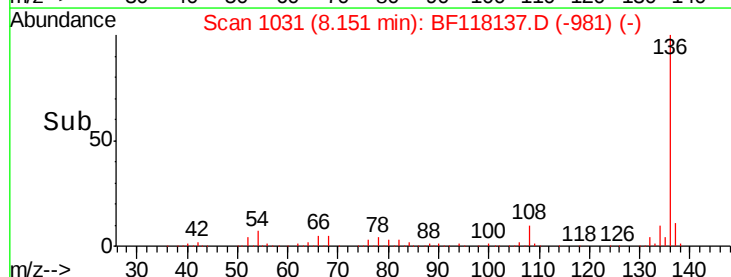
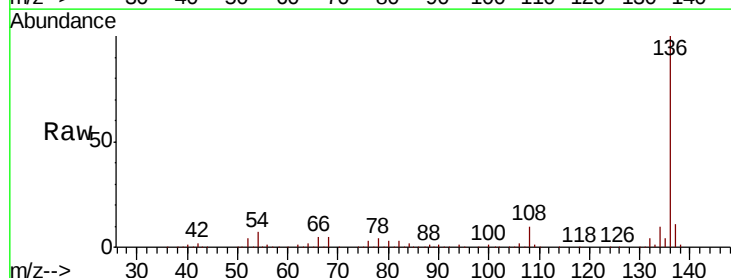
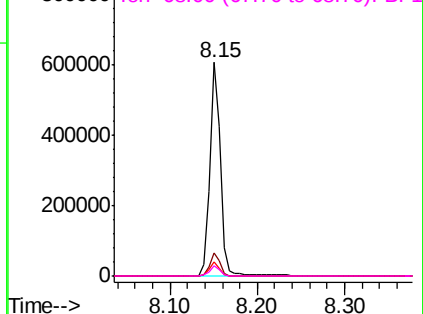
Delta R.T. -0.01 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		516865		
137	10.9	9.0	13.6		
54	6.5	5.0	7.6		
68	4.8	3.8	5.8		

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





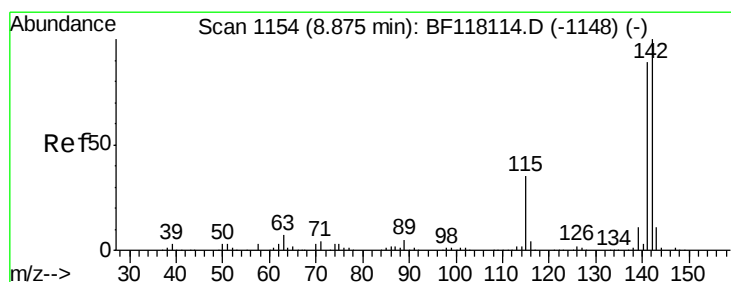
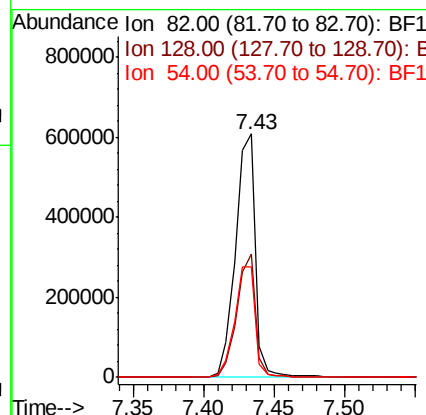
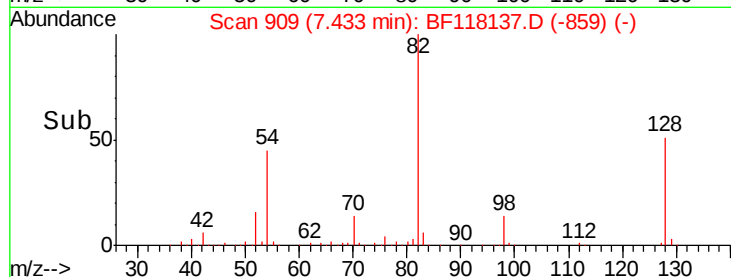
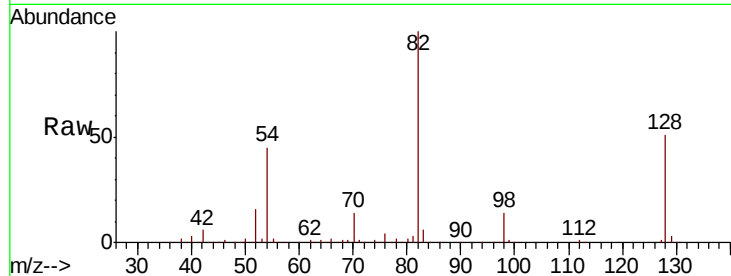
#23
Nitrobenzene-d5
Concen: 64.922 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.7	39.1	58.7
54	45.2	38.2	57.2

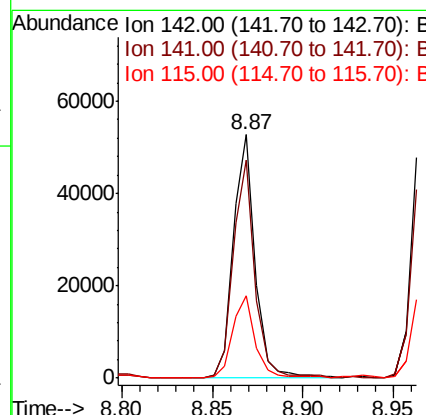
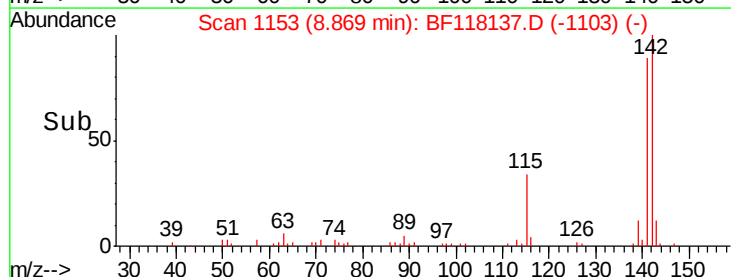
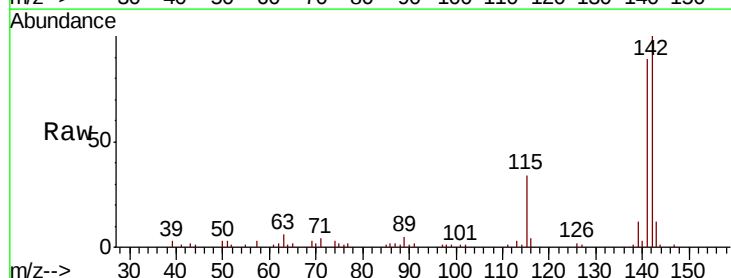
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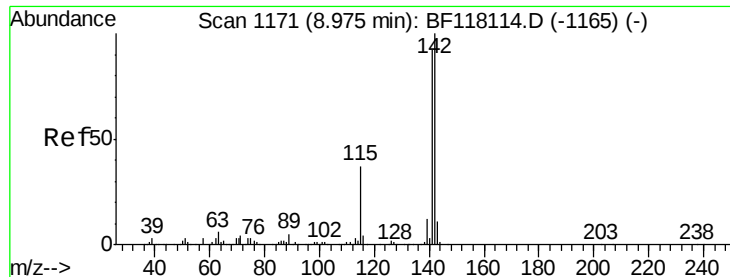
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#37
2-Methylnaphthalene
Concen: 2.516 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.4	107.0
115	33.9	28.2	42.4





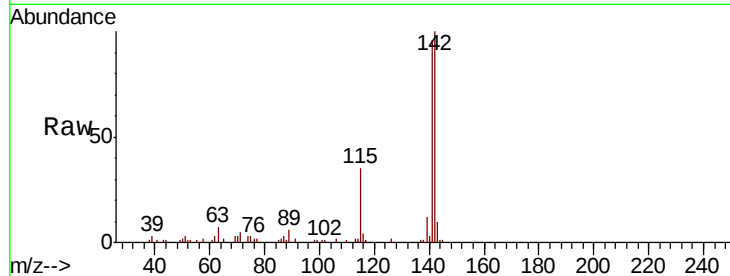
#38
1-Methylnaphthalene
Concen: 2.849 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

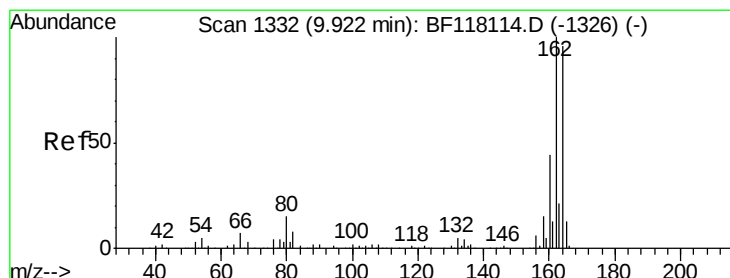
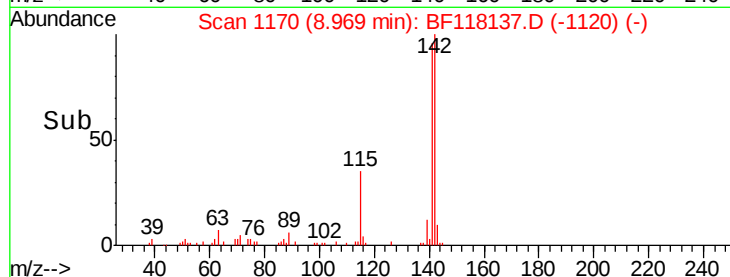
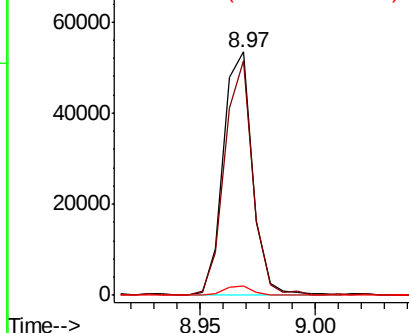
Tot Ion	Ratio	Lower	Upper
142	100		
141	96.2	74.0	111.0
116	3.7	3.2	4.8

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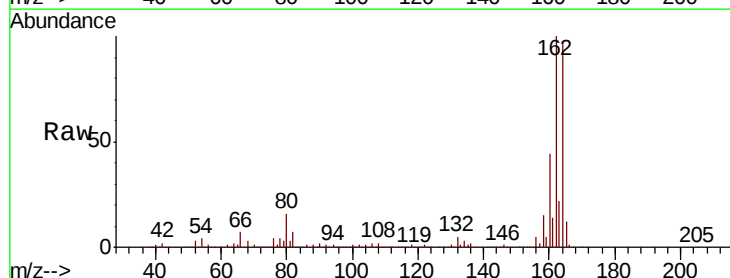


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

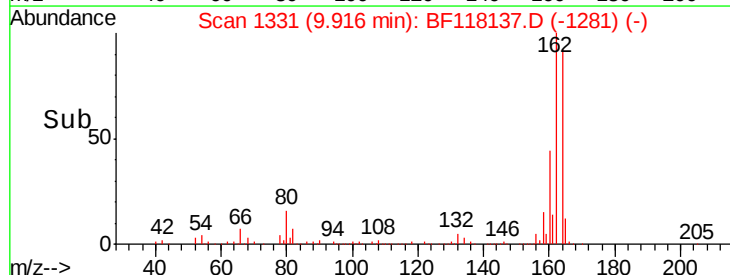
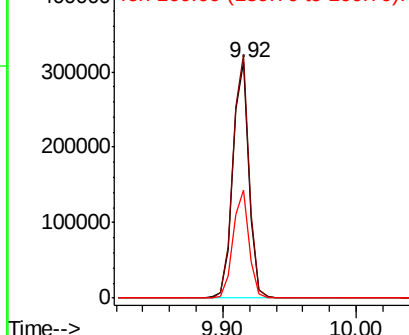


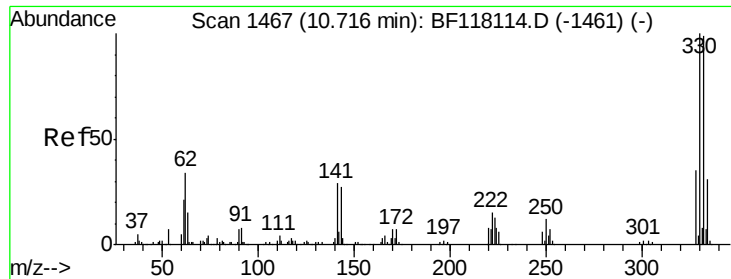
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	83.4	125.0
160	46.0	36.6	54.8



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





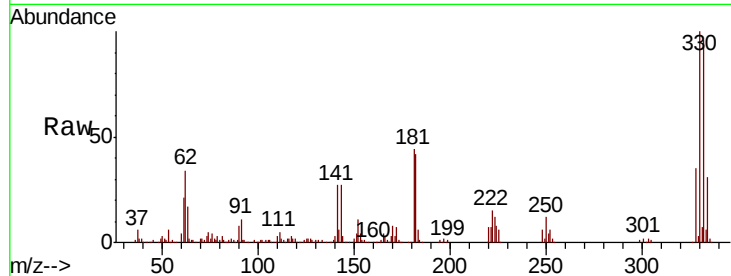
#42
 2,4,6-Tribromophenol
 Concen: 95.389 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Instrument :
 BNA_F
 ClientSampleId :
 P001-WC006

Tot Ion	Ratio	Resp	Lower	Upper
330	100	310315		
332	96.0		78.1	117.1
141	32.8		26.9	40.3

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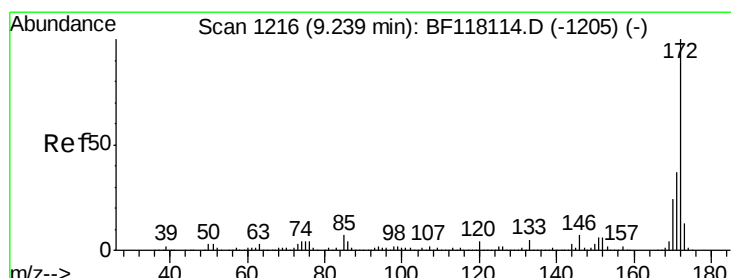
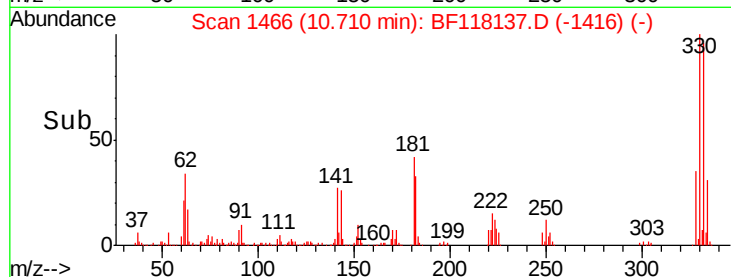
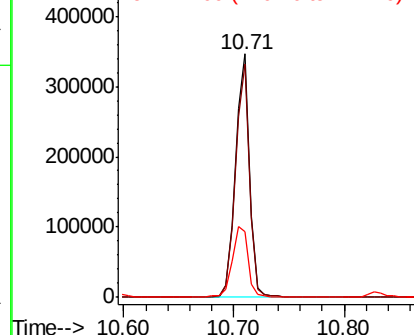


Abundance

Ion 329.80 (329.50 to 330.50): E

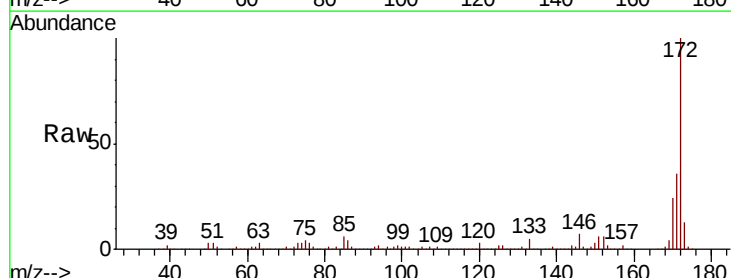
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 68.199 ng
 RT: 9.23 min Scan# 1215
 Delta R.T. -0.01 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1200202		
171	35.8		29.2	43.8
170	23.7		19.4	29.2

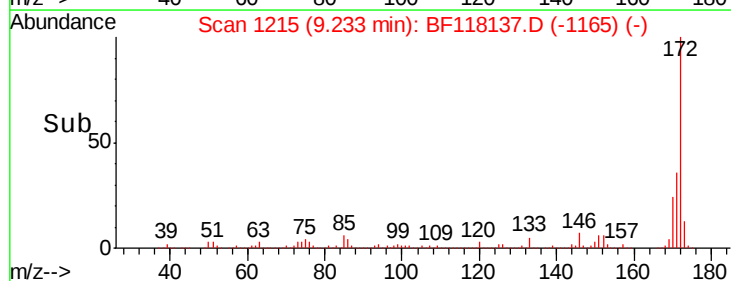
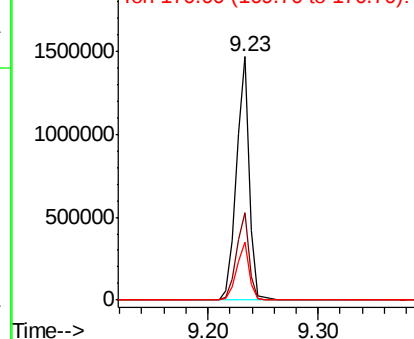


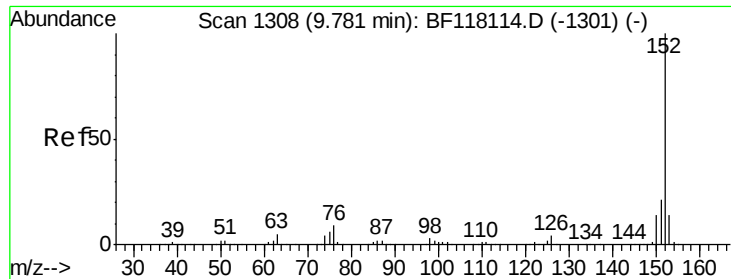
Abundance

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





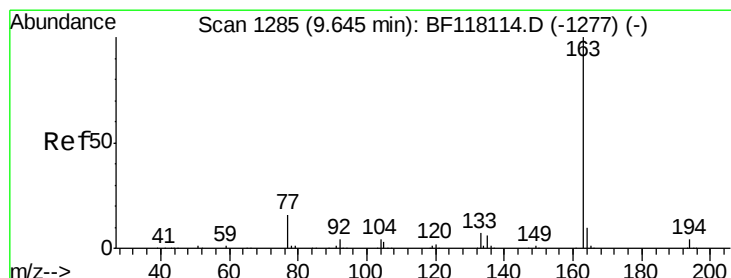
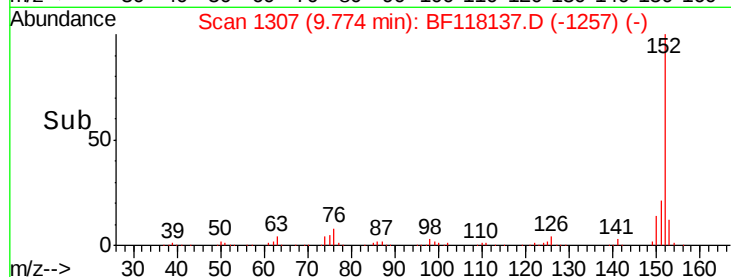
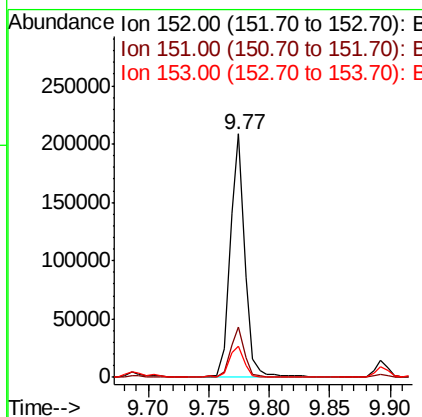
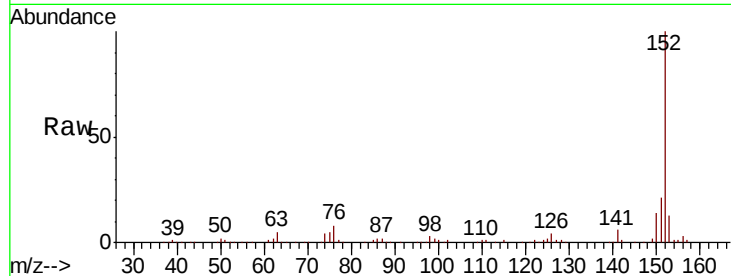
#49
Acenaphthylene
Concen: 7.017 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6
153	13.0	10.8	16.2

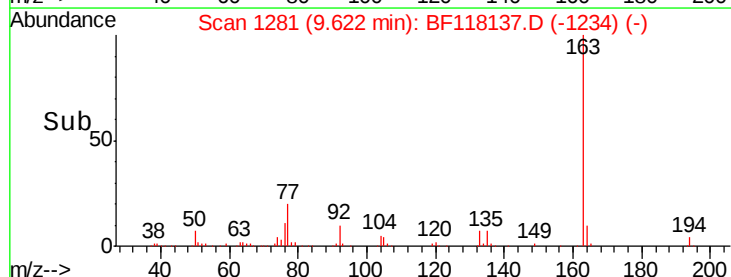
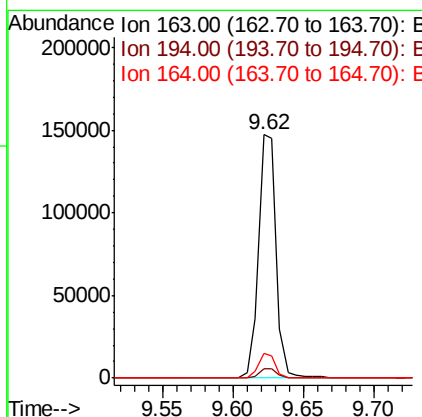
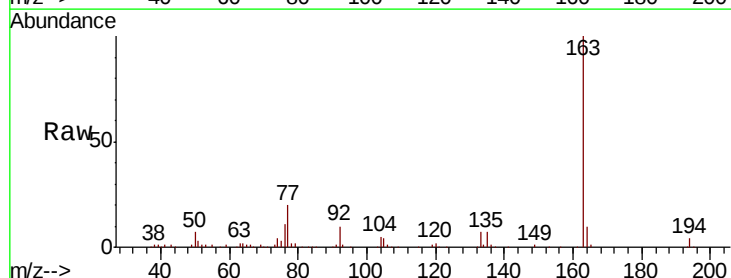
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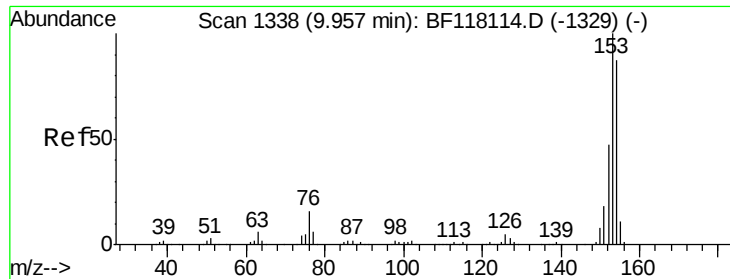
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#50
Dimethylphthalate
Concen: 6.619 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.02 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.4	7.7	11.5





#52

Acenaphthene

Concen: 40.757 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

Instrument :

BNA_F

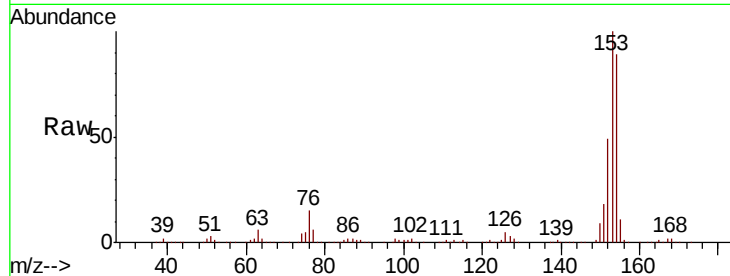
ClientSampleId :

P001-WC006

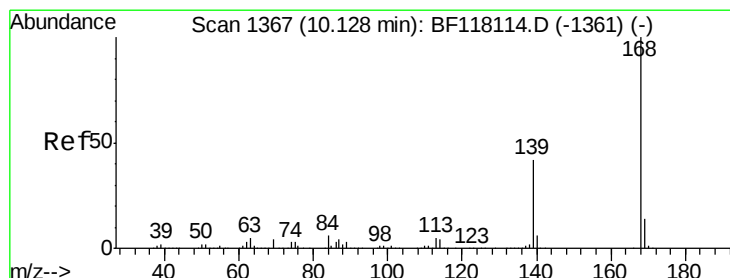
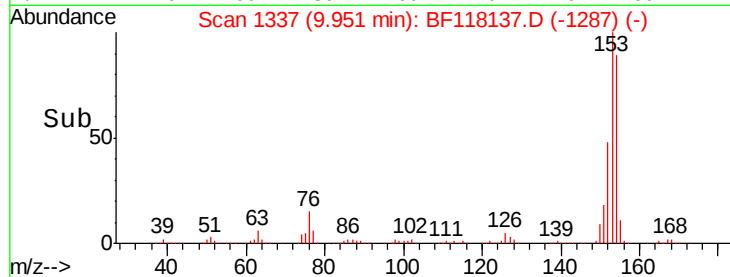
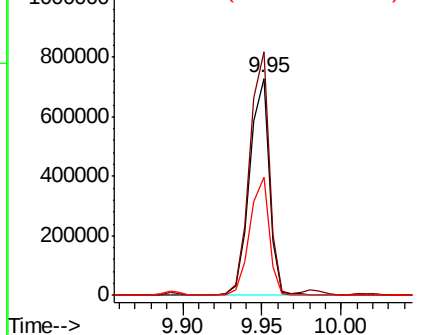
Tot Ion:	154	Resp:	623369
Ion Ratio	Lower	Upper	
154	100		
153	112.0	91.8	137.6
152	54.4	43.3	64.9

Manual Integrations
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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: 15.625 ng

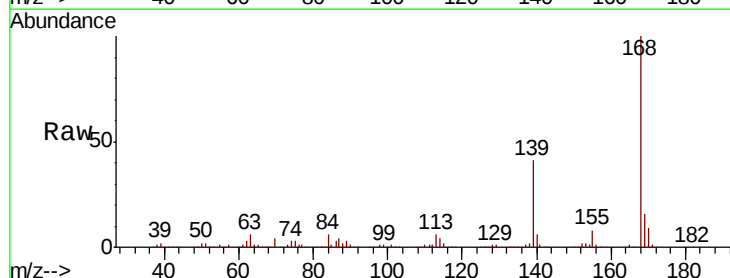
RT: 10.12 min Scan# 1365

Delta R.T. -0.01 min

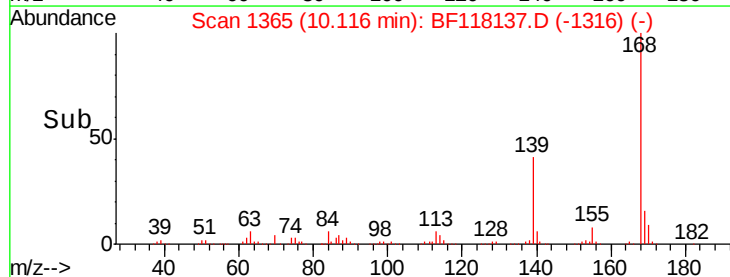
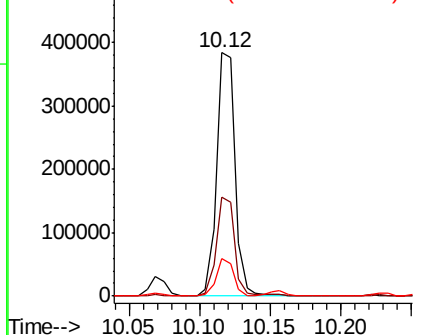
Lab File: BF118137.D

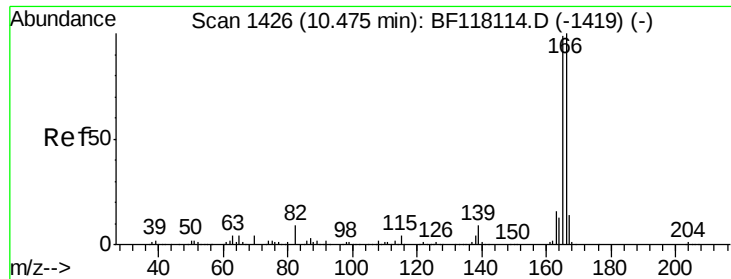
Acq: 7 Dec 2019 18:58

Tgt Ion:	168	Resp:	350174
Ion Ratio	Lower	Upper	
168	100		
139	40.8	33.4	50.0
169	15.6	11.0	16.6



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





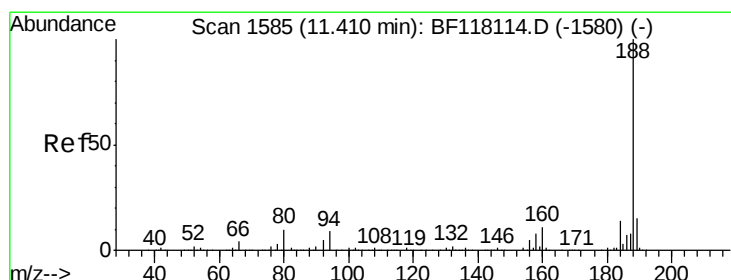
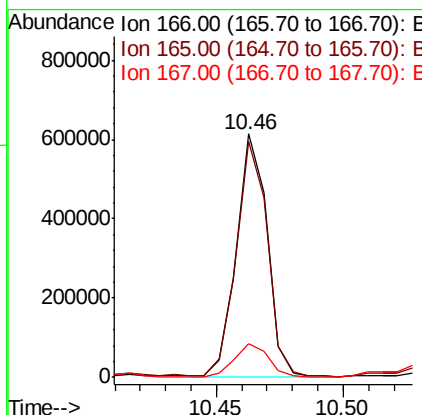
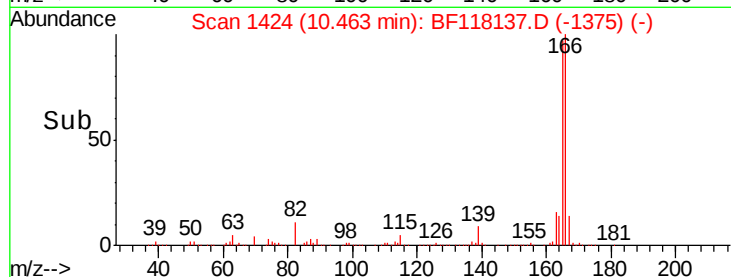
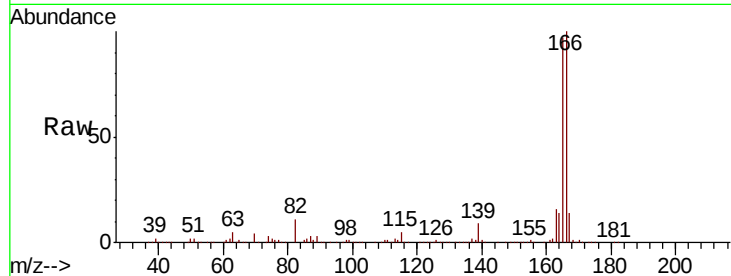
#58
 Fluorene
 Concen: 28.924 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Instrument :
 BNA_F
 ClientSampleId :
 P001-WC006

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.1	79.0	118.4
167	14.1	10.9	16.3

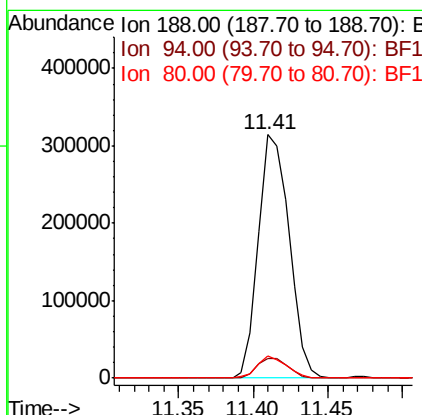
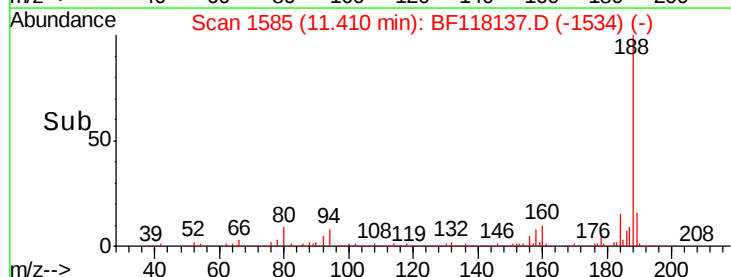
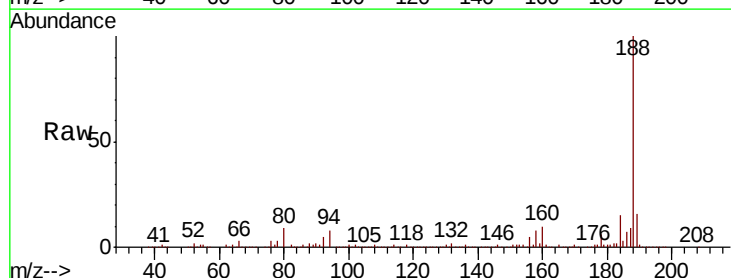
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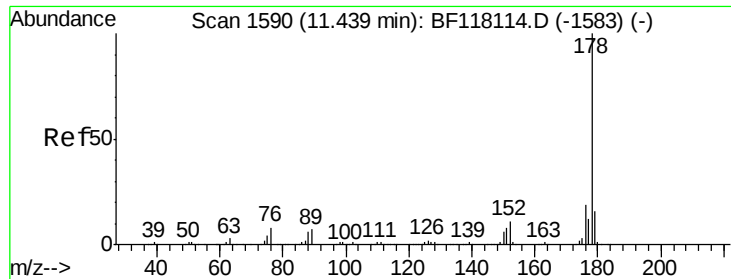
mohammad
 12/10/2019 11:49:17 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.9	7.1	10.7
80	9.1	7.9	11.9





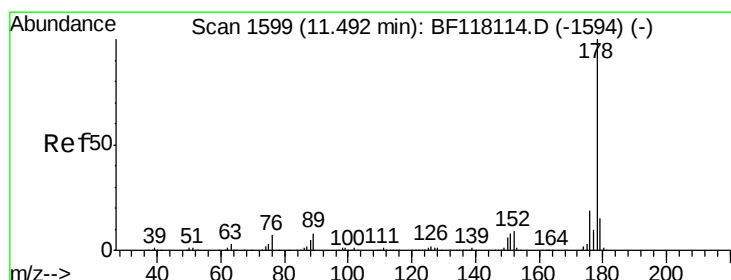
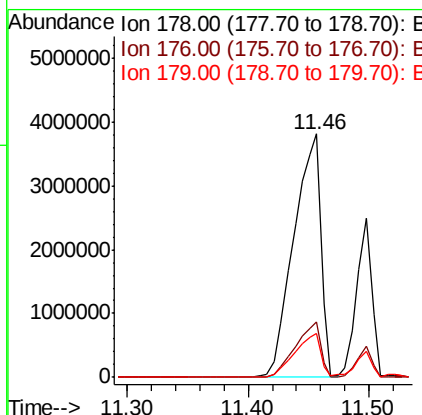
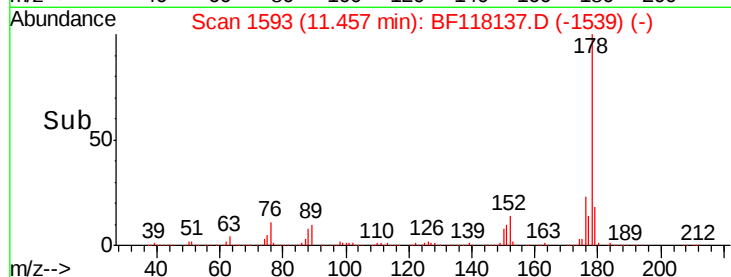
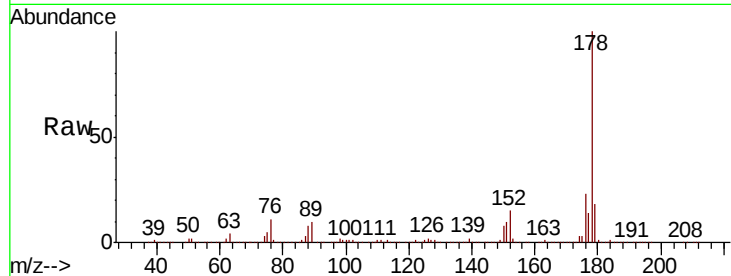
#71
Phenanthrene
Concen: 249.758 ng
RT: 11.46 min Scan# 1593
Delta R.T. 0.02 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

Tot Ion:178 Resp: 5959602
Ion Ratio Lower Upper
178 100
176 22.5 15.5 23.3
179 17.9 12.6 18.8

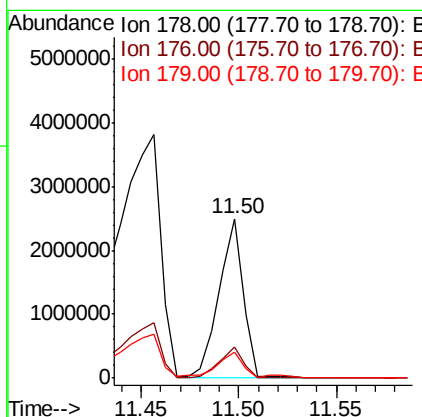
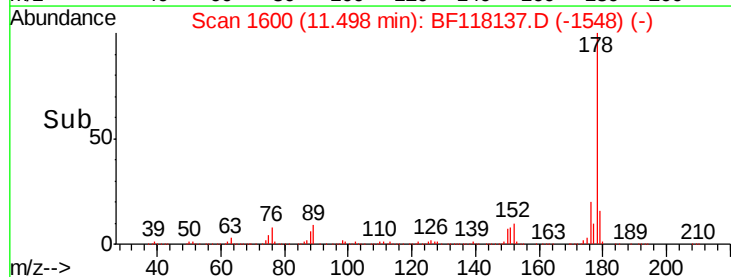
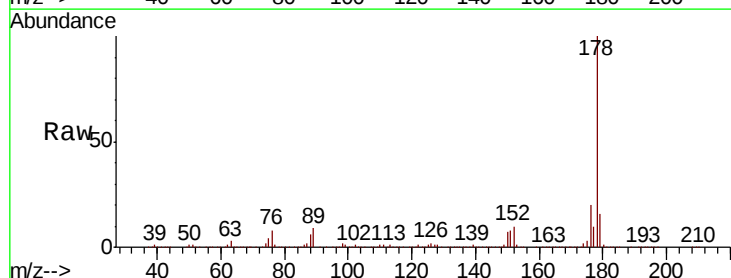
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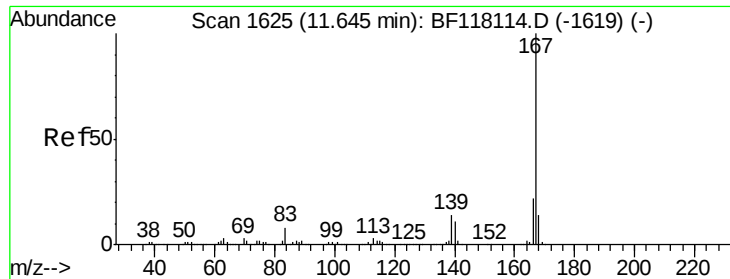
mohammad
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#72
Anthracene
Concen: 90.997 ng
RT: 11.50 min Scan# 1600
Delta R.T. 0.01 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion:178 Resp: 2166058
Ion Ratio Lower Upper
178 100
176 19.9 15.0 22.6
179 16.5 12.2 18.4





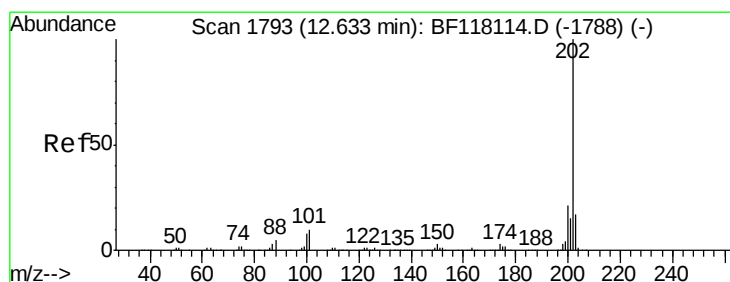
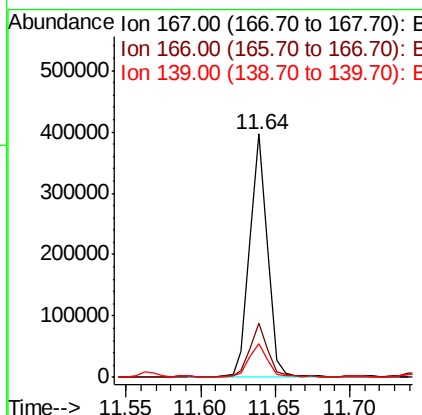
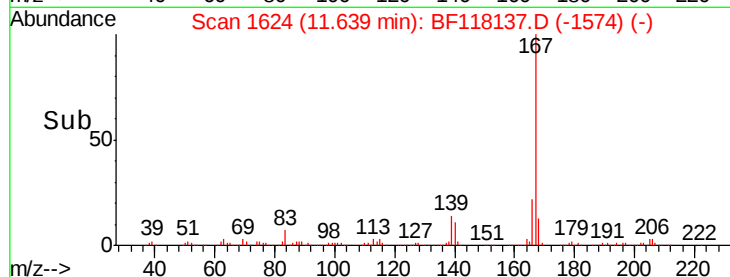
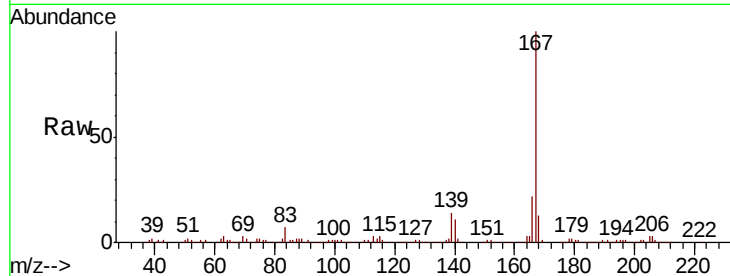
#73
 Carbazole
 Concen: 15.156 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Instrument :
 BNA_F
 ClientSampleId :
 P001-WC006

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.4	26.2
139	14.0	11.4	17.0

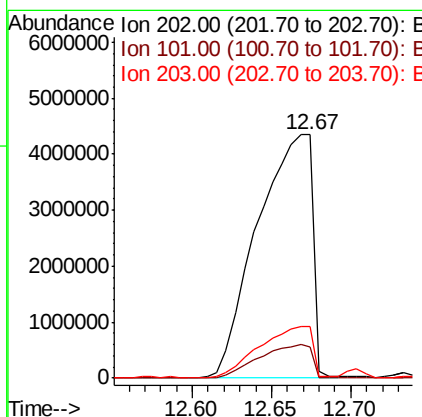
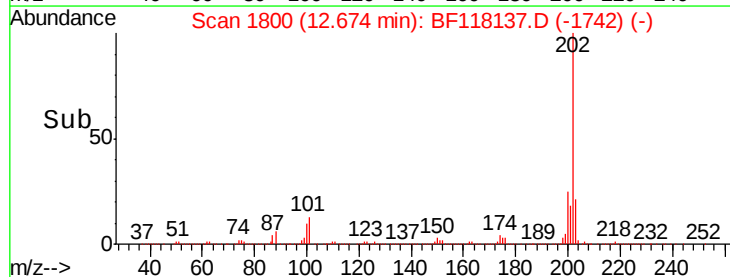
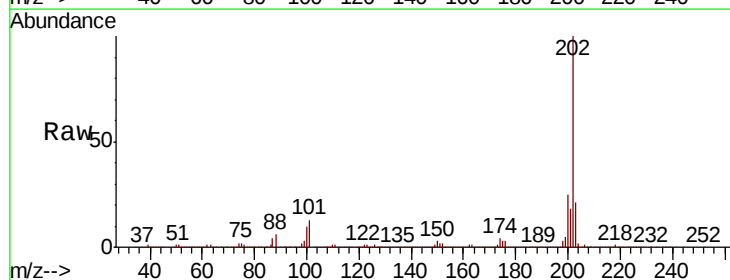
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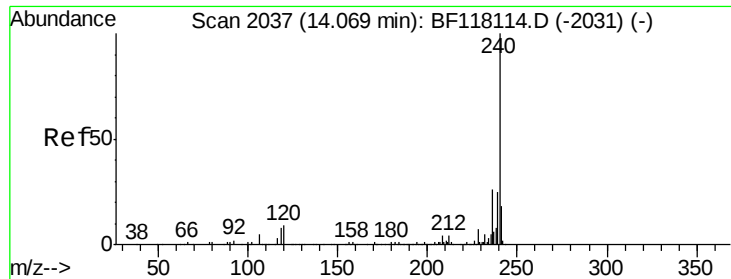
mohammad
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#75
 Fluoranthene
 Concen: 428.126 ng
 RT: 12.67 min Scan# 1800
 Delta R.T. 0.04 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	30.4
203	21.0	0.0	37.2





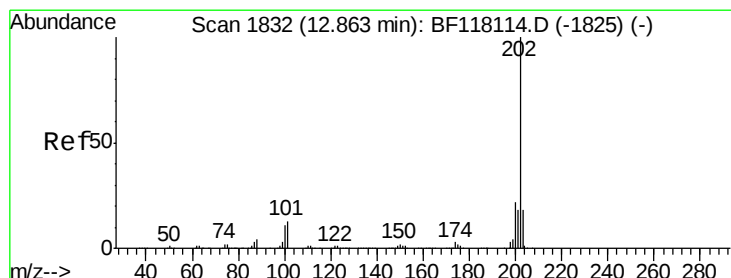
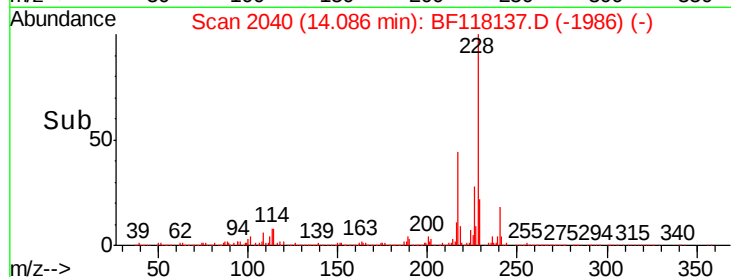
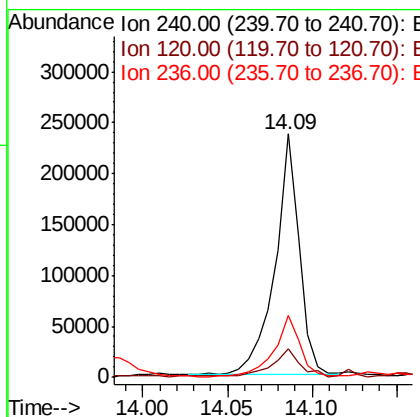
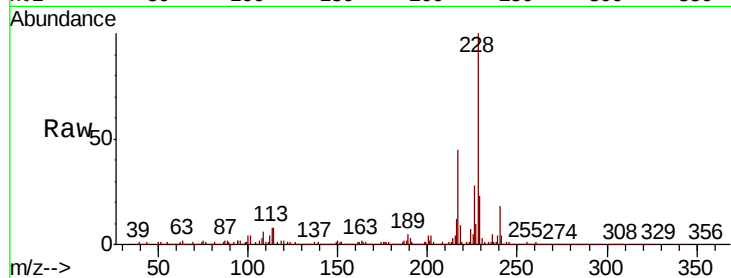
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.09 min Scan# 2040
 Delta R.T. 0.02 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Instrument :
 BNA_F
 ClientSampleId :
 P001-WC006

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.6	7.1	10.7#
236	25.4	21.0	31.6

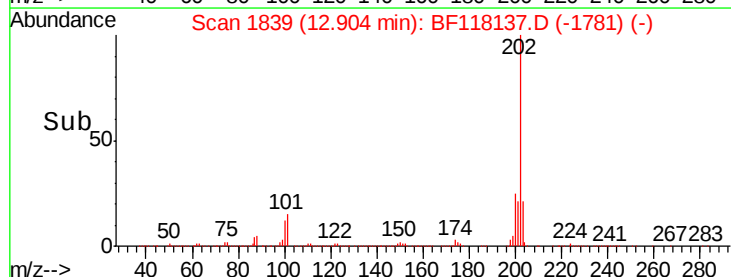
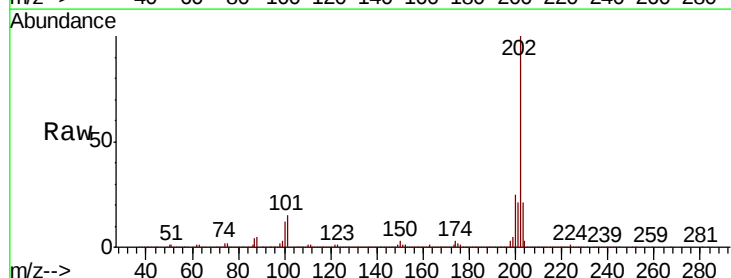
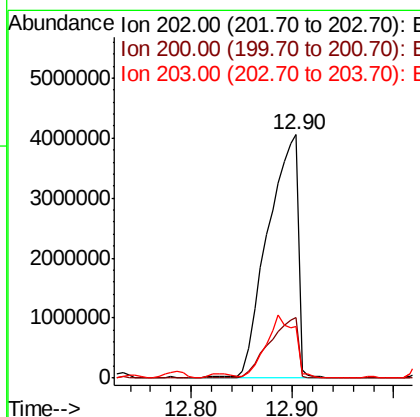
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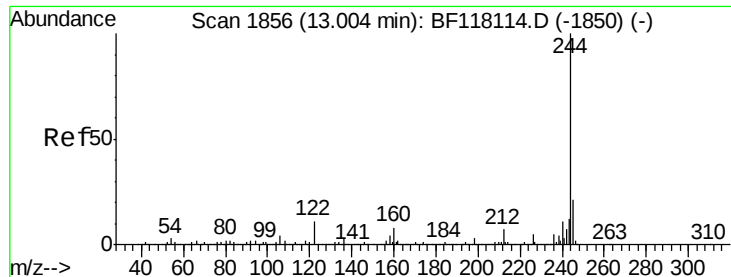
mohammad
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#78
 Pyrene
 Concen: 452.078 ng
 RT: 12.90 min Scan# 1839
 Delta R.T. 0.04 min
 Lab File: BF118137.D
 Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
202	100		
200	25.1	17.5	26.3
203	21.5	14.6	21.8





#79

Terphenyl-d14

Concen: 82.464 ng

RT: 13.00 min Scan# 1856

Delta R.T. -0.00 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

Instrument :

BNA_F

ClientSampleId :

P001-WC006

Tot Ion:244 Resp: 1130307

Ion Ratio Lower Upper

244 100

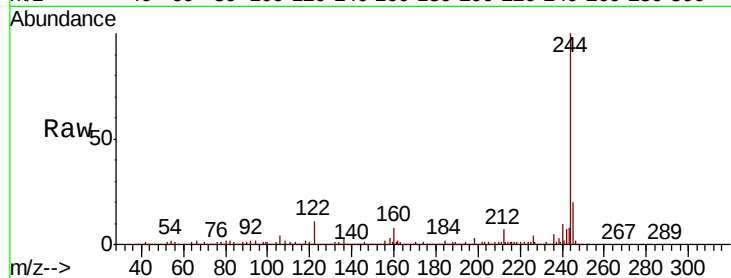
212 7.0 5.9 8.9

122 11.0 9.0 13.6

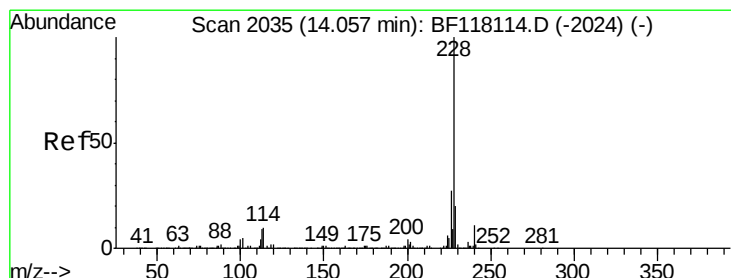
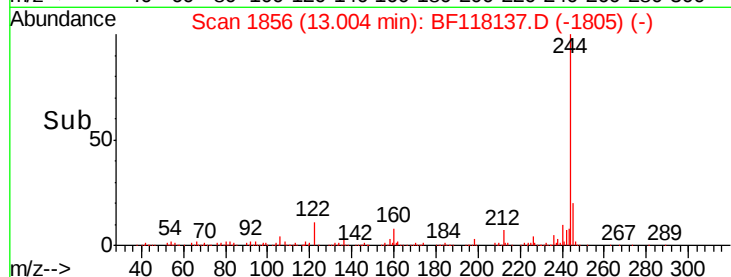
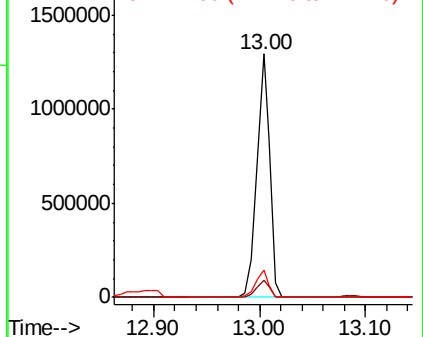
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Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 298.288 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.02 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

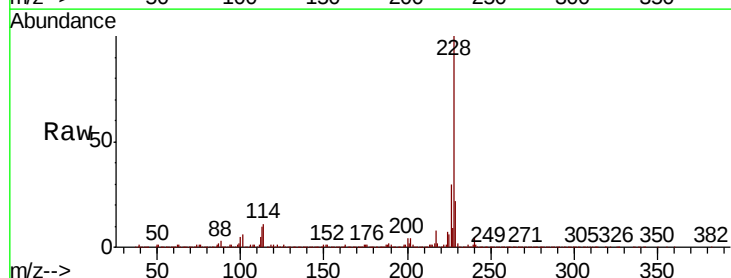
Tgt Ion:228 Resp: 4861556

Ion Ratio Lower Upper

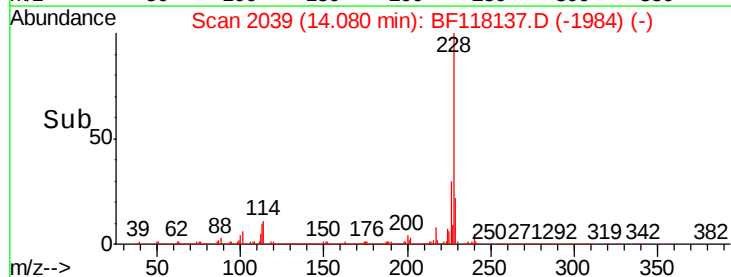
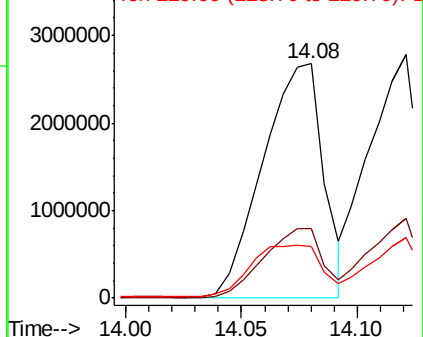
228 100

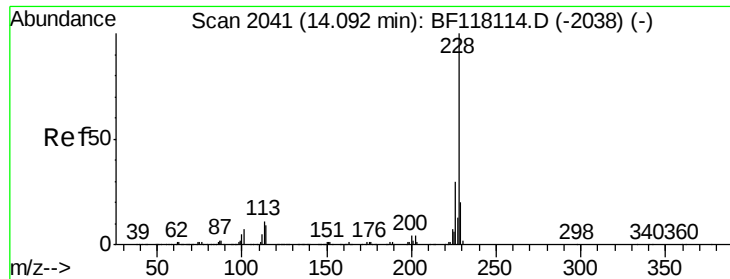
226 29.9 21.8 32.8

229 22.3 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





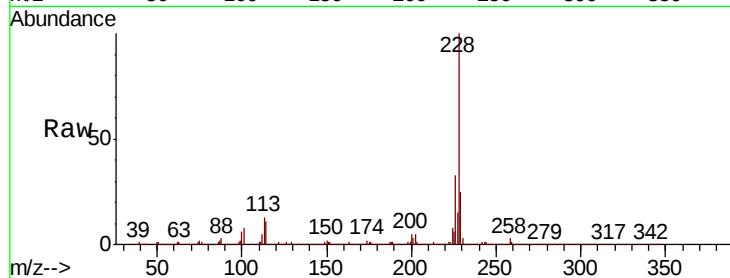
#83
Chrysene
Concen: 262.370 ng/ml
RT: 14.12 min Scan# 2046
Delta R.T. 0.03 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

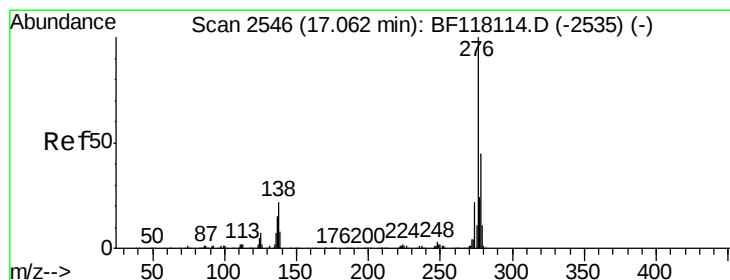
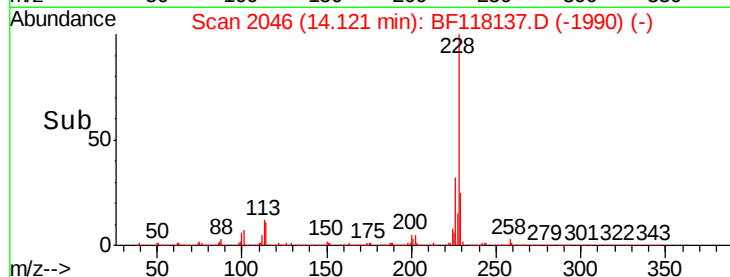
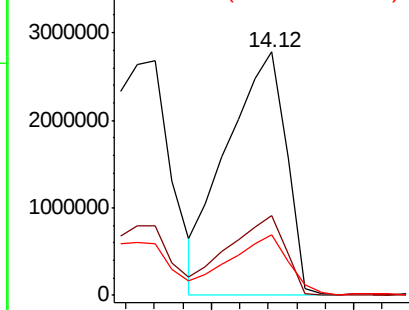
Tot Ion: 228 Resp: 4084697
Ion Ratio Lower Upper
228 100
226 32.6 23.8 35.8
229 25.1 15.7 23.5#

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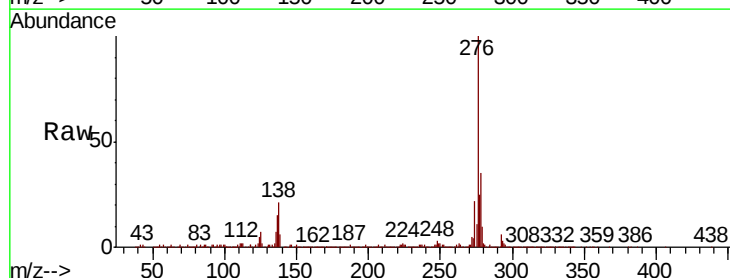


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

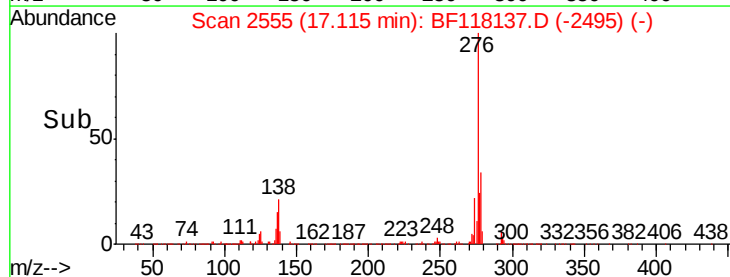
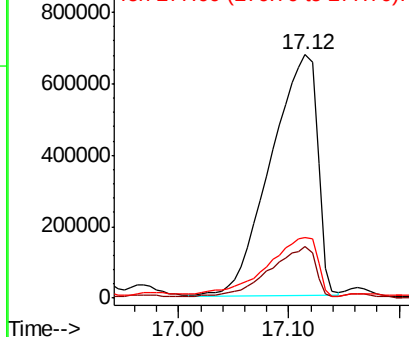


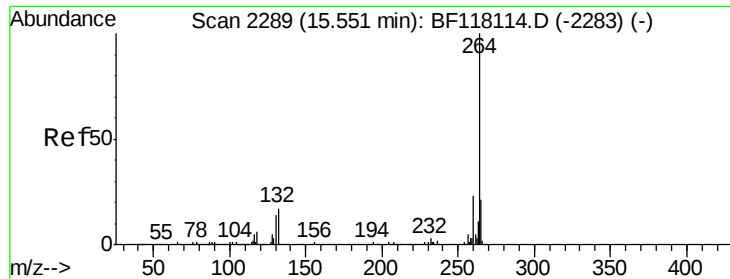
#86
Indeno(1,2,3-cd)pyrene
Concen: 150.111 ng
RT: 17.12 min Scan# 2555
Delta R.T. 0.05 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion: 276 Resp: 1966371
Ion Ratio Lower Upper
276 100
138 20.0 18.9 28.3
277 26.4 20.4 30.6



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





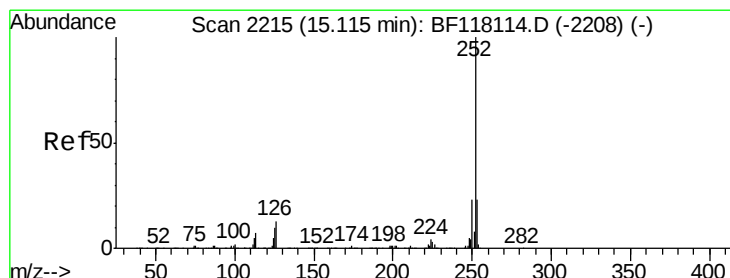
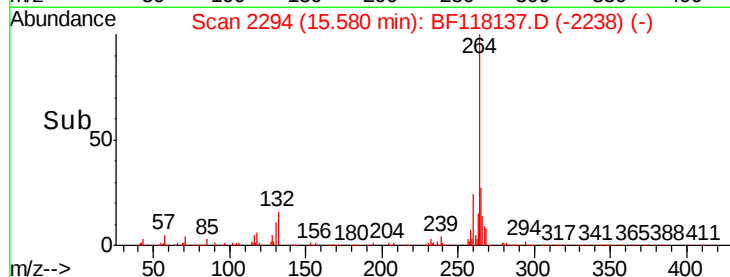
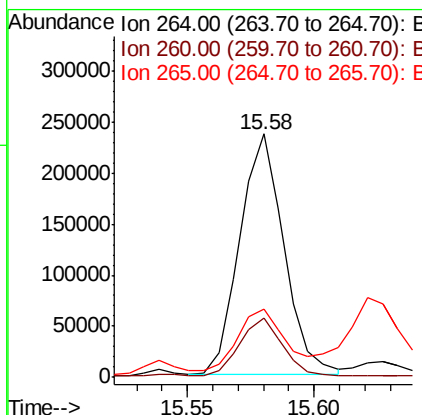
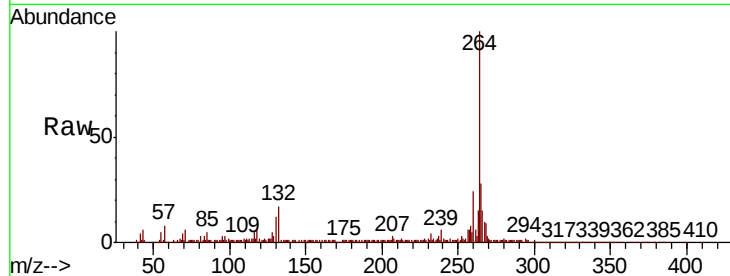
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.58 min Scan# 2294
Delta R.T. 0.03 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	18.6	28.0
265	28.1	16.8	25.2

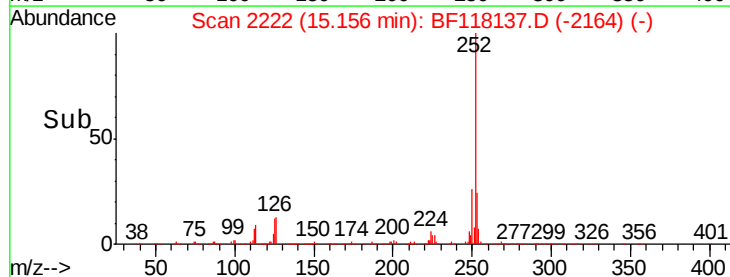
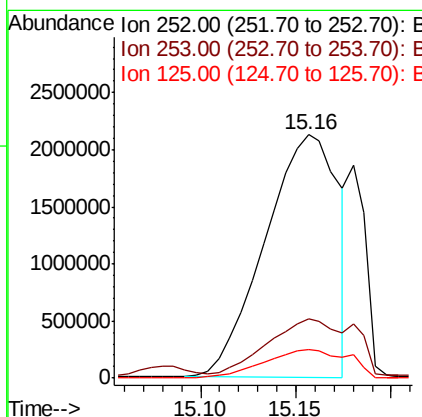
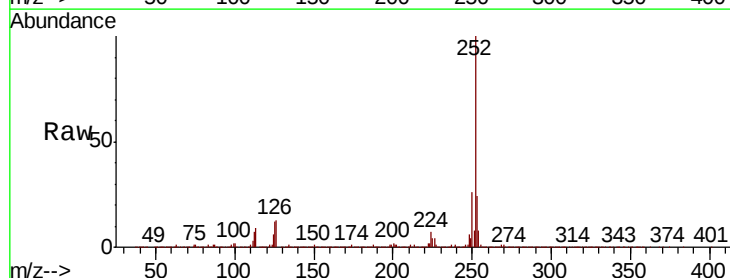
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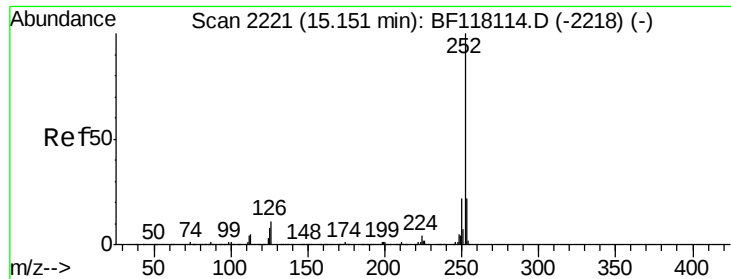
mohammad
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#88
Benzo(b)fluoranthene
Concen: 300.003 ng m
RT: 15.16 min Scan# 2222
Delta R.T. 0.04 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	18.2	27.4
125	11.8	8.3	12.5





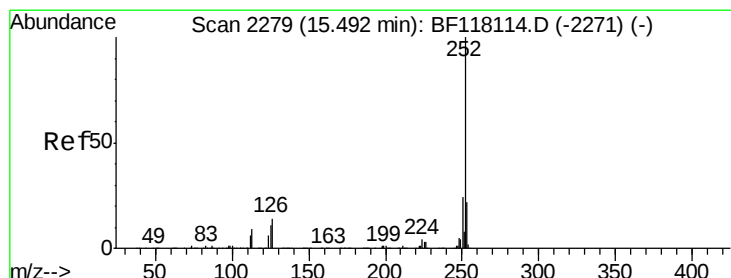
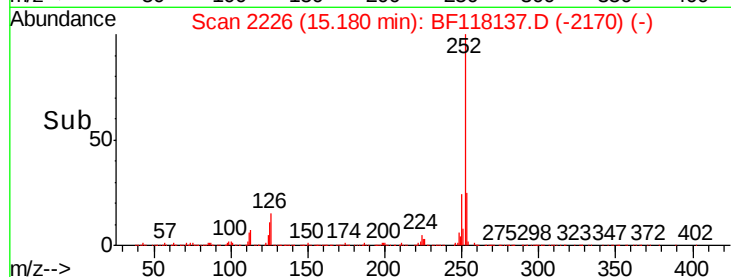
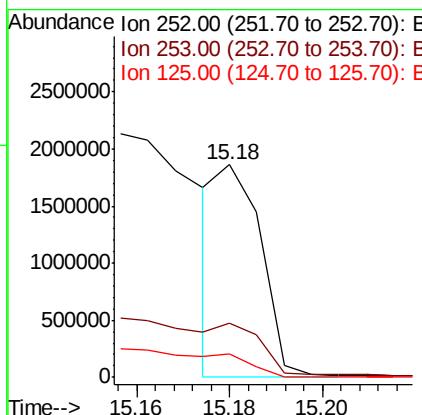
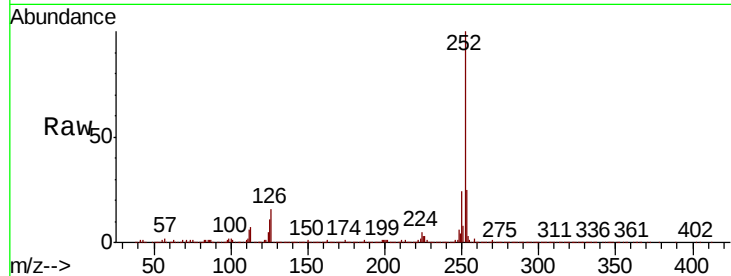
#89
Benzo(k)fluoranthene
Concen: 67.205 ng m
RT: 15.18 min Scan# 2226
Delta R.T. 0.03 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Instrument :
BNA_F
ClientSampleId :
P001-WC006

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.5	17.6	26.4
125	10.9	6.7	10.1

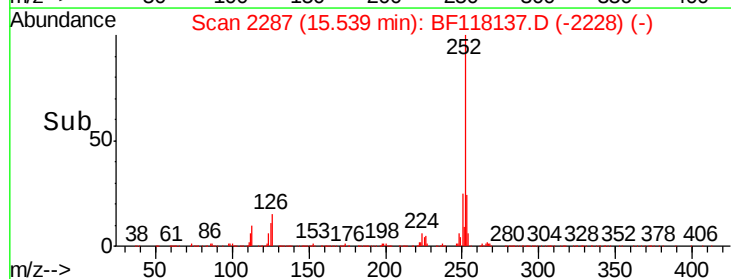
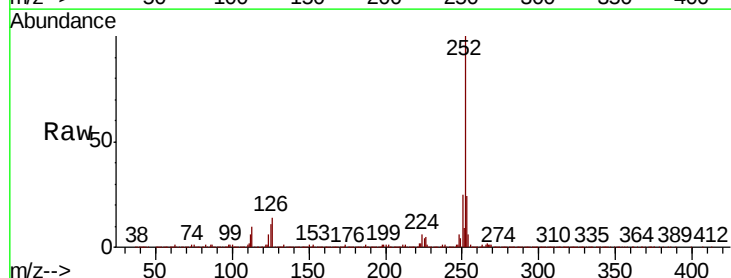
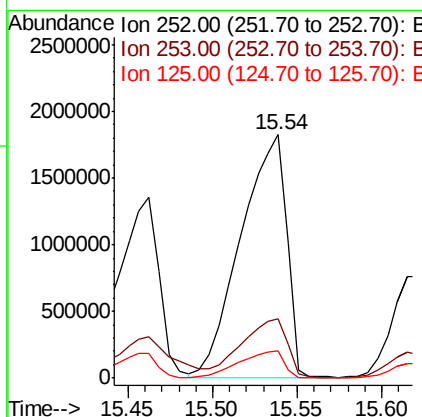
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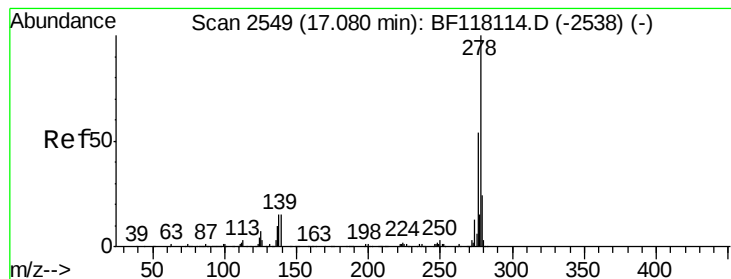
mohammad
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#90
Benzo(a)pyrene
Concen: 205.250 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.05 min
Lab File: BF118137.D
Acq: 7 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.5	26.3
125	11.0	9.1	13.7





#91

Dibenzo(a,h)anthracene

Concen: 38.571 ng

RT: 17.12 min Scan# 2555

Delta R.T. 0.04 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

Instrument :

BNA_F

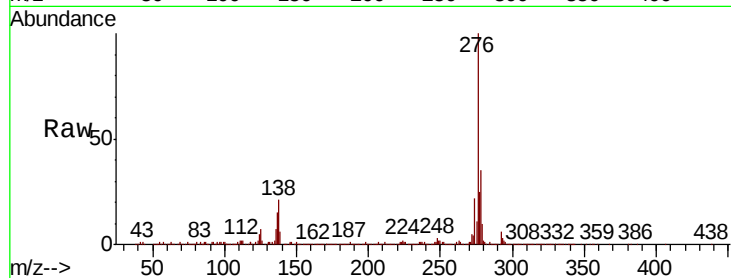
ClientSampleId :

P001-WC006

Tot Ion:	278	Resp:	551418
Ion Ratio	Lower	Upper	
278	100		
139	17.3	11.7	17.5
279	27.1	19.0	28.4

Manual Integrations
APPROVED

mohammad
12/10/2019 11:49:17 AM

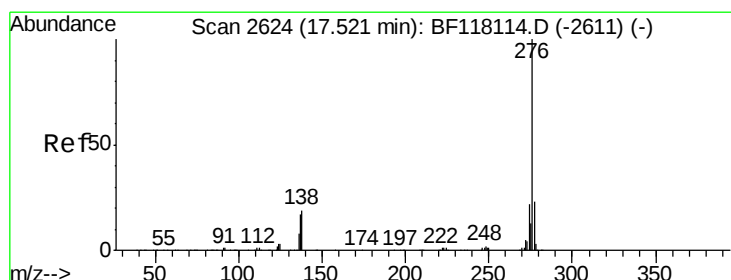
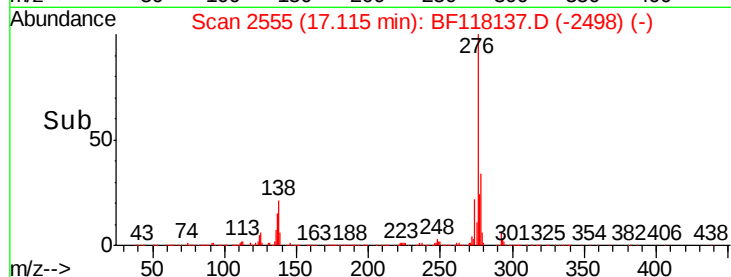
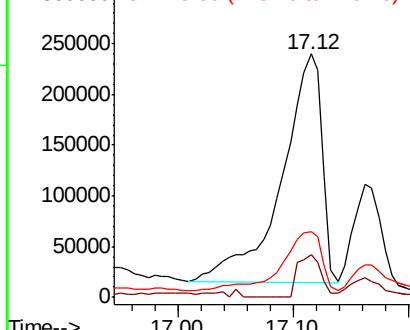


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 115.981 ng

RT: 17.57 min Scan# 2633

Delta R.T. 0.05 min

Lab File: BF118137.D

Acq: 7 Dec 2019 18:58

Tgt Ion:	276	Resp:	1593325
Ion Ratio	Lower	Upper	
276	100		
277	24.5	18.2	27.4
138	20.3	15.5	23.3

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

