

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121704.D
 Acq On : 28 Sep 2020 11:00
 Operator : JU/CG
 Sample : L4127-01DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-3(9-11)DL

Quant Time: Sep 28 11:48:25 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 28 11:40:42 2020
 Response via : Initial Calibration

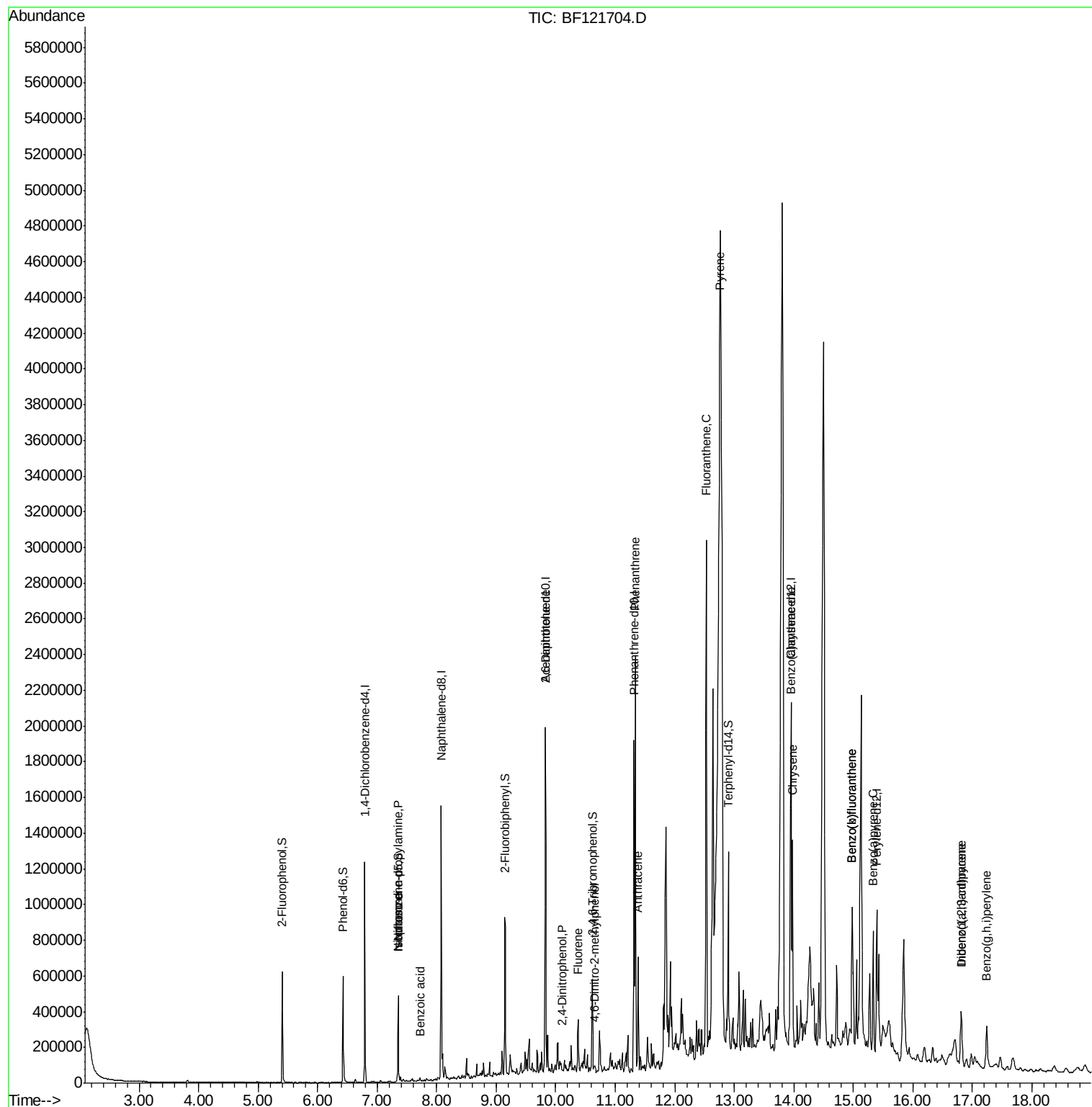
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	161836	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	659847	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	349992	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	666303	20.00	ng	0.00
76) Chrysene-d12	13.95	240	479045	20.00	ng	0.00
86) Perylene-d12	15.39	264	345692	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	163453	15.01	ng	-0.01
7) Phenol-d6	6.42	99	212128	14.85	ng	-0.02
23) Nitrobenzene-d5	7.35	82	136200	11.08	ng	-0.02
42) 2,4,6-Tribromophenol	10.62	330	53988	12.41	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	274318	11.87	ng	0.00
79) Terphenyl-d14	12.90	244	305952	12.94	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.35	70	18506	2.248	ng	# 82
25) Isophorone	7.35	82	131970	5.334	ng	# 65
32) Benzoic acid	7.73	122	142	6.950	ng	# 1
51) 2,6-Dinitrotoluene	9.83	165	47635	8.818	ng	# 22
54) 2,4-Dinitrophenol	10.12	184	106	9.078	ng	# 18
58) Fluorene	10.37	166	71465	3.097	ng	99
65) 4,6-Dinitro-2-methylphenol	10.64	198	487	6.954	ng	# 1
71) Phenanthrene	11.34	178	784133	21.600	ng	99
72) Anthracene	11.39	178	221193	5.904	ng	98
75) Fluoranthene	12.53	202	1109695	28.635	ng	99
78) Pyrene	12.76	202	842170	24.062	ng	98
81) Benzo(a)anthracene	13.94	228	506685	16.719	ng	99
83) Chrysene	13.97	228	428206	13.953	ng	96
87) Indeno(1,2,3-cd)pyrene	16.81	276	195927	8.703	ng	95
88) Benzo(b)fluoranthene	14.98	252	593972	25.702	ng	99
89) Benzo(k)fluoranthene	14.98	252	593972	28.067	ng	# 97
90) Benzo(a)pyrene	15.33	252	310060	15.784	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	51519	2.749	ng	93
92) Benzo(a,h,i)perylene	17.24	276	187197	10.162	ng	100

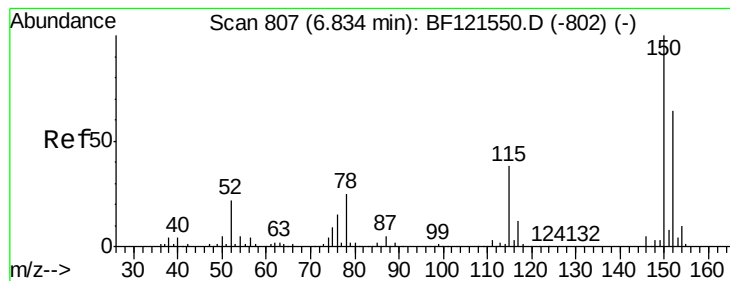
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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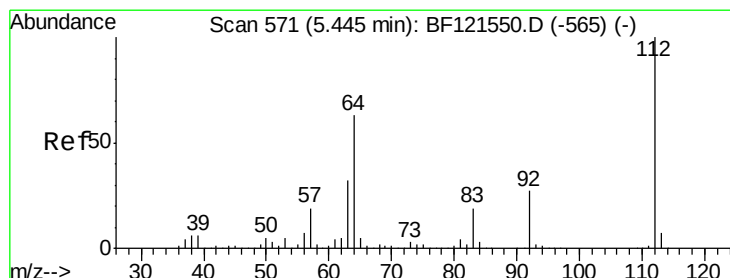
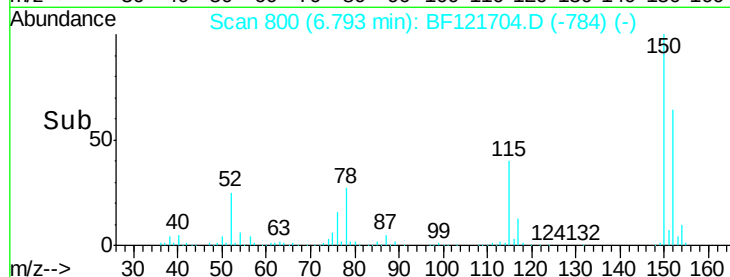
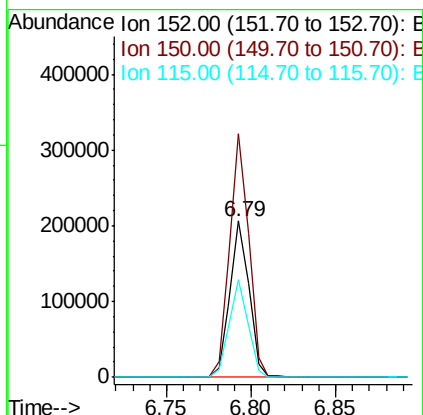
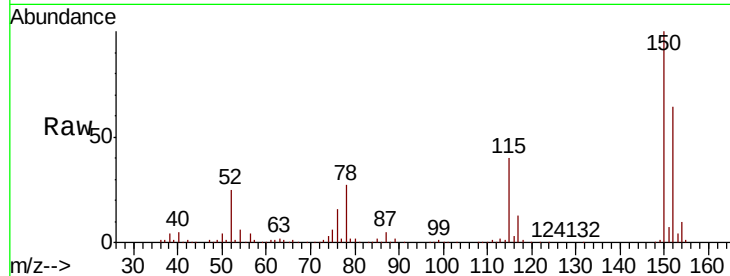


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121704.D
 Acq: 28 Sep 2020 11:00

Instrument :
 BNA_F
 ClientSampleId :
 B-3(9-11)DL

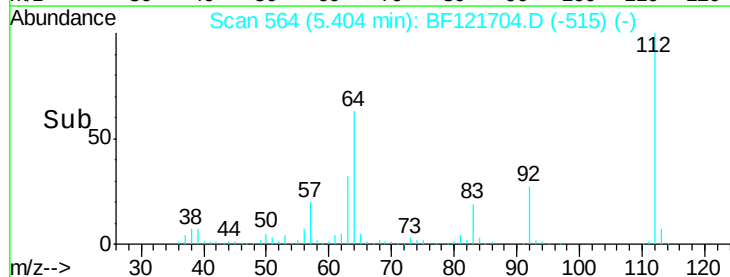
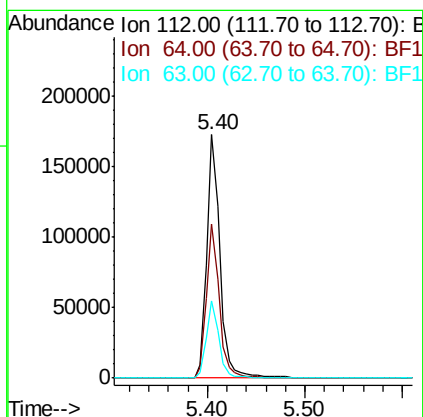
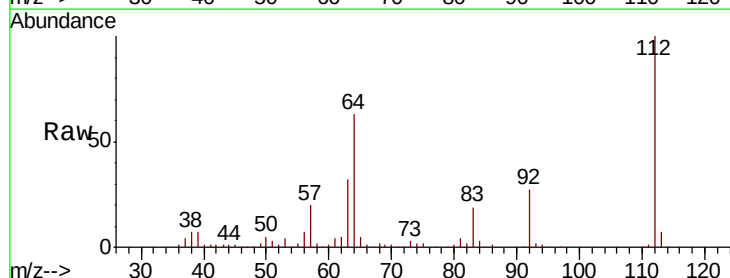
Tot Ion:152 Resp: 161836
 Ion Ratio Lower Upper
 152 100
 150 156.0 122.6 184.0
 115 62.3 47.1 70.7

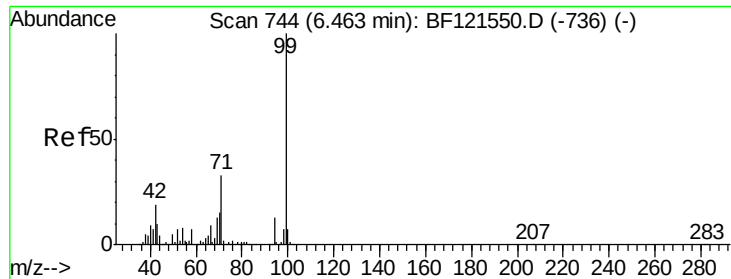


#5

2-Fluorophenol
 Concen: 15.010 ng
 RT: 5.40 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: BF121704.D
 Acq: 28 Sep 2020 11:00

Tgt Ion:112 Resp: 163453
 Ion Ratio Lower Upper
 112 100
 64 63.0 49.5 74.3
 63 31.6 25.4 38.0





#7

Phenol-d6

Concen: 14.848 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.02 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

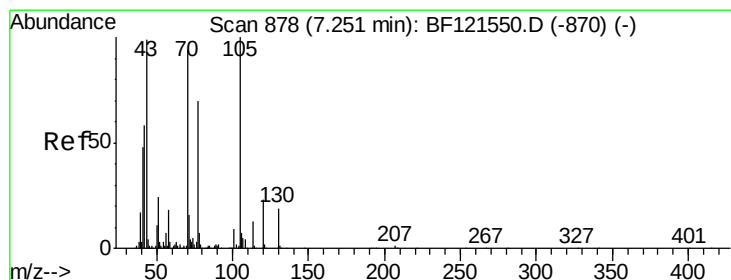
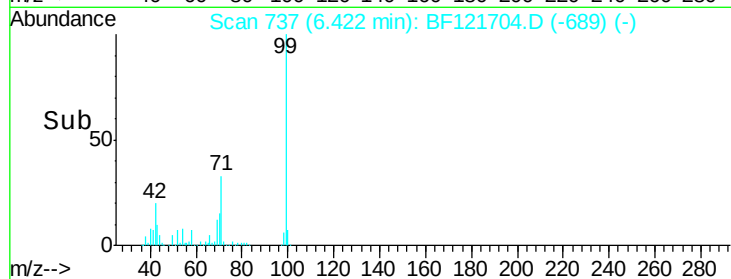
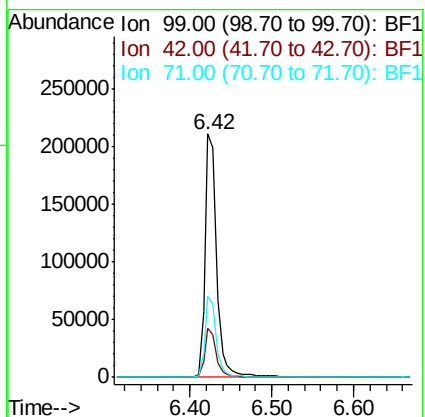
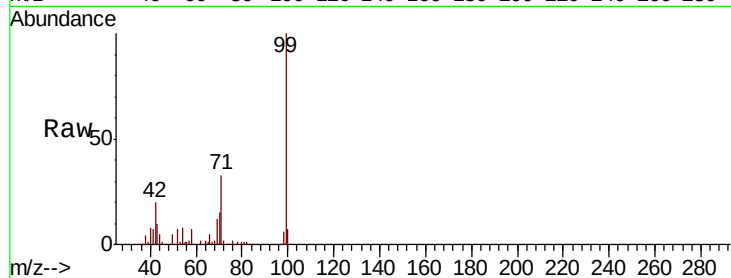
Tot Ion: 99 Resp: 212128

Ion Ratio Lower Upper

99 100

42 20.2 16.1 24.1

71 33.2 27.6 41.4



#19

n-Nitroso-di-n-propylamine

Concen: 2.248 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.13 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Tgt Ion: 70 Resp: 18506

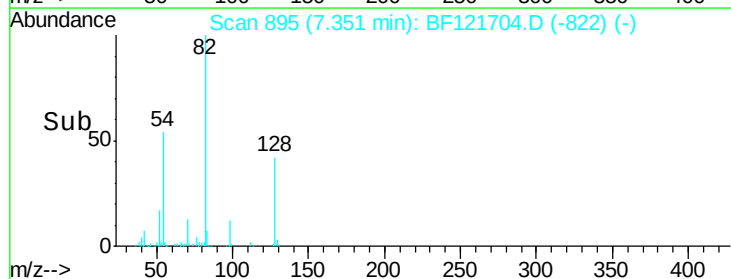
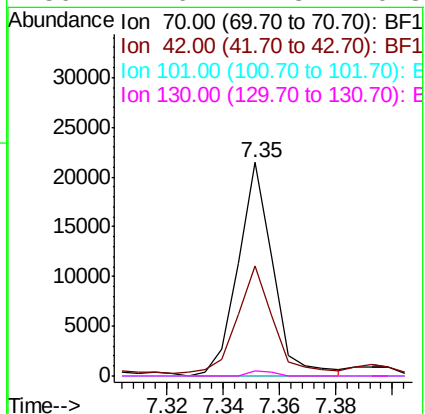
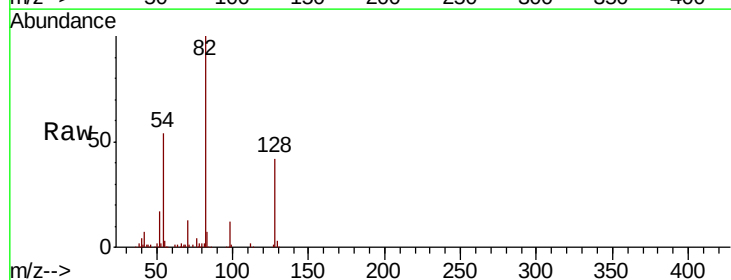
Ion Ratio Lower Upper

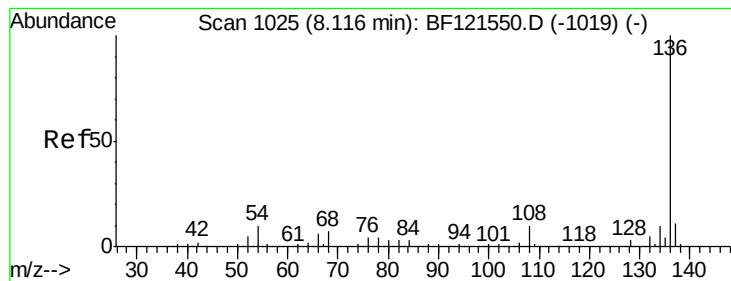
70 100

42 51.6 45.8 68.6

101 0.0 7.6 11.4#

130 2.6 17.8 26.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

Tot Ion:136 Resp: 659847

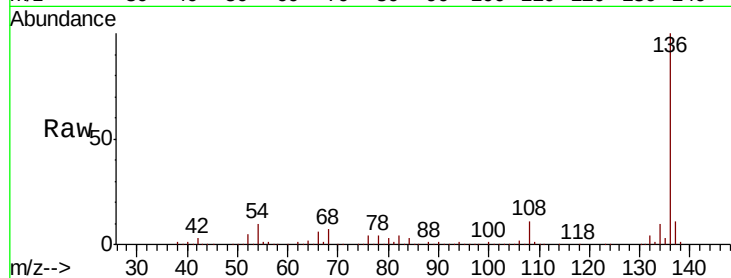
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 10.2 7.5 11.3

68 7.3 5.5 8.3

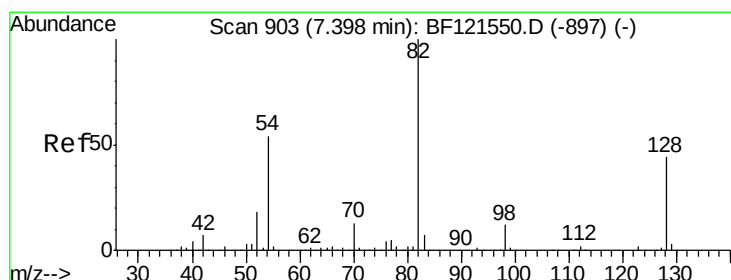
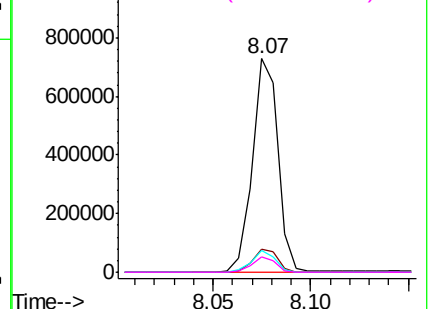
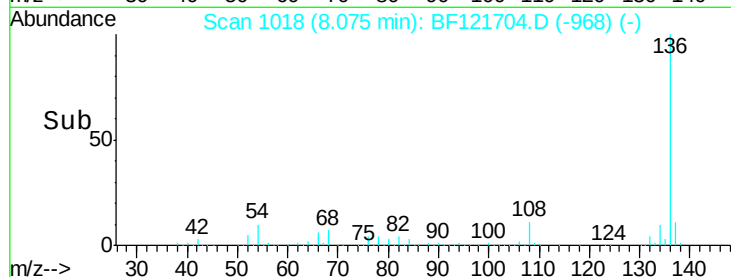


Abundance Ion 136.00 (135.70 to 136.70): E

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: 11.083 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.02 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

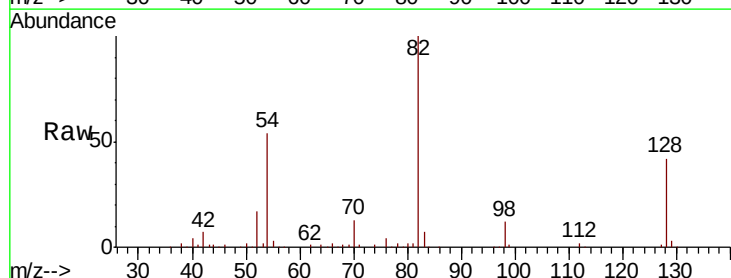
Tgt Ion: 82 Resp: 136200

Ion Ratio Lower Upper

82 100

128 42.1 35.8 53.6

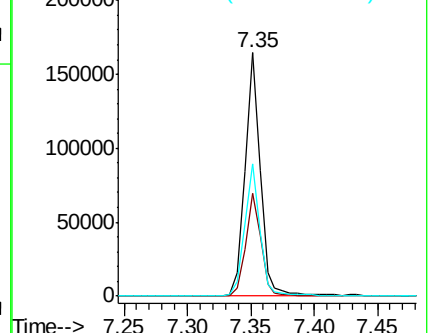
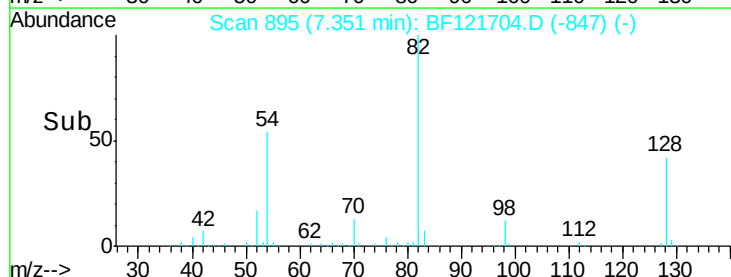
54 54.4 42.6 63.8

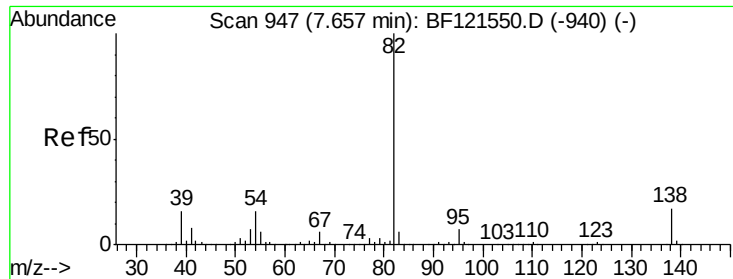


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

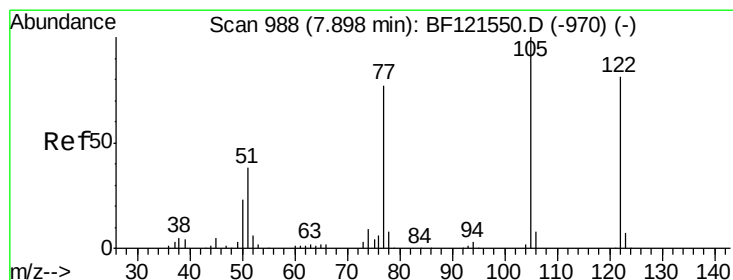
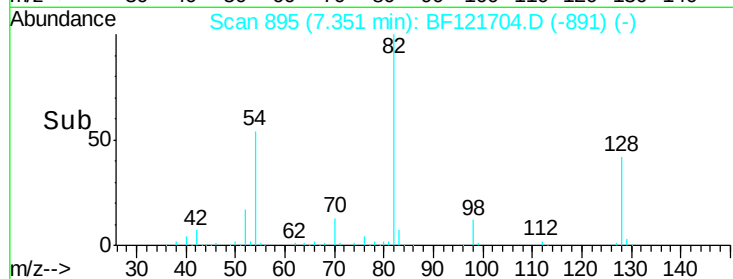
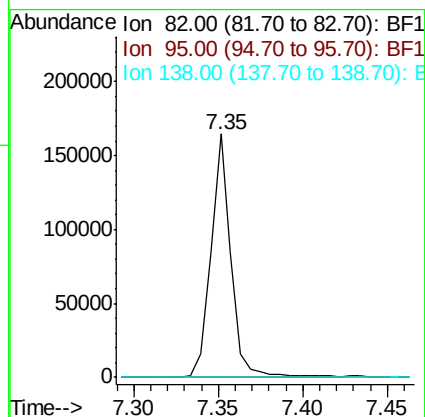
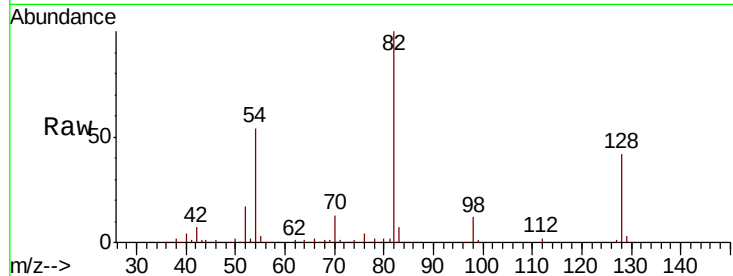




#25
Isophorone
Concen: 5.334 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.28 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

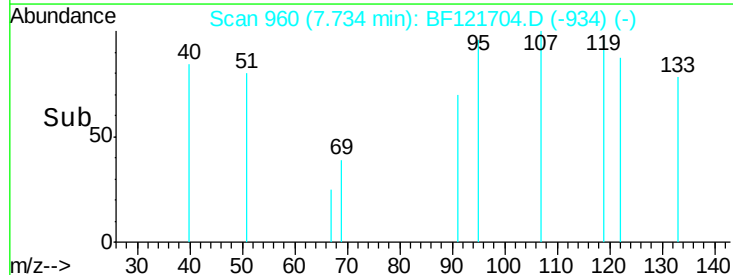
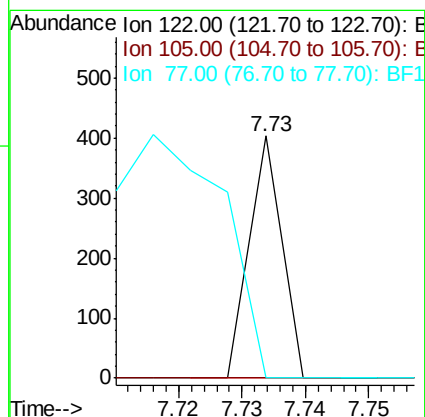
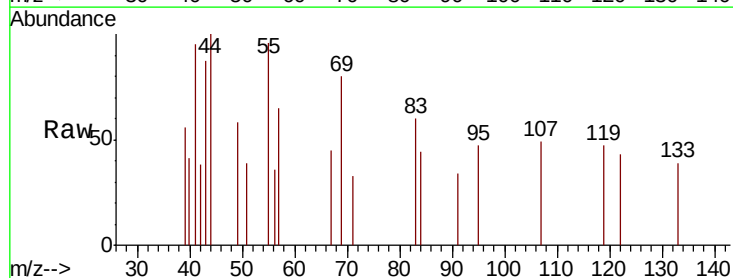
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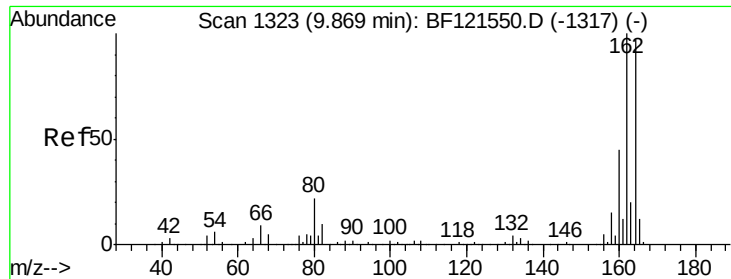
Tot Ion: 82 Resp: 131970
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 14.2 21.4#



#32
Benzoic acid
Concen: 6.950 ng
RT: 7.73 min Scan# 960
Delta R.T. -0.15 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion: 122 Resp: 142
Ion Ratio Lower Upper
122 100
105 0.0 101.7 141.7#
77 0.0 72.8 112.8#

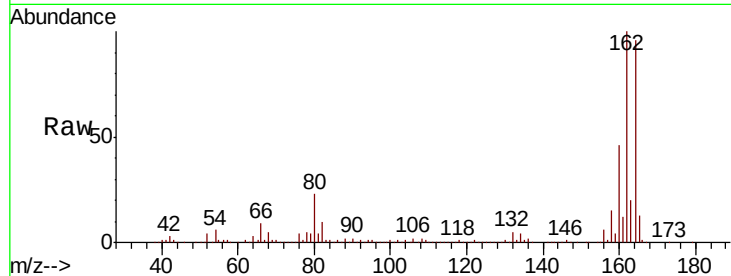




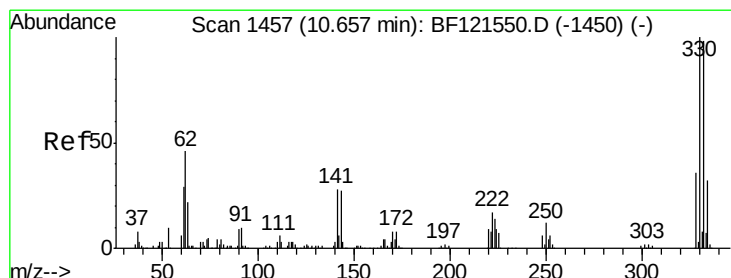
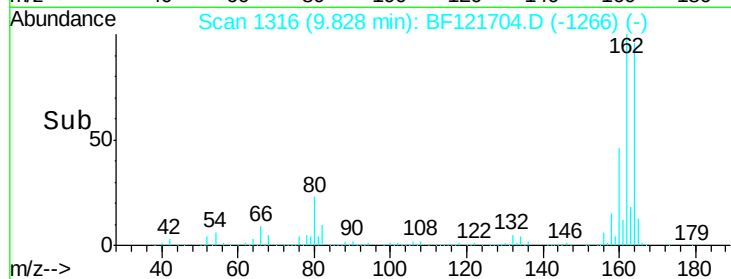
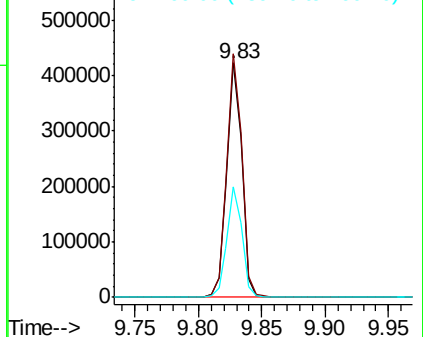
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.83 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: BF121704.D
 Acq: 28 Sep 2020 11:00

Instrument :
 BNA_F
 ClientSampleId :
 B-3(9-11)DL

Tot Ion:164 Resp: 349992
 Ion Ratio Lower Upper
 164 100
 162 104.0 82.1 123.1
 160 47.4 36.8 55.2

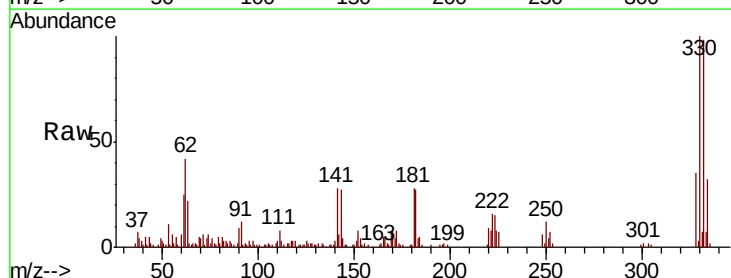


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

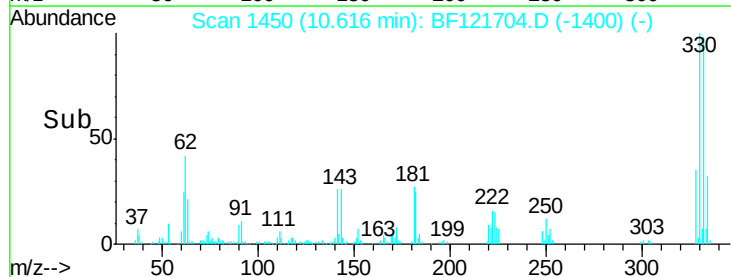
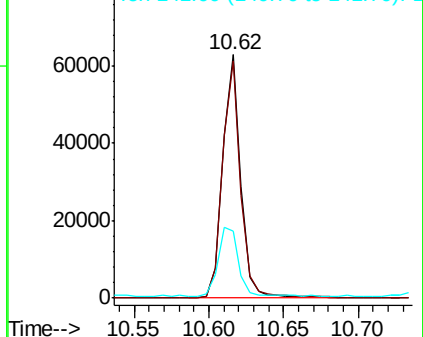


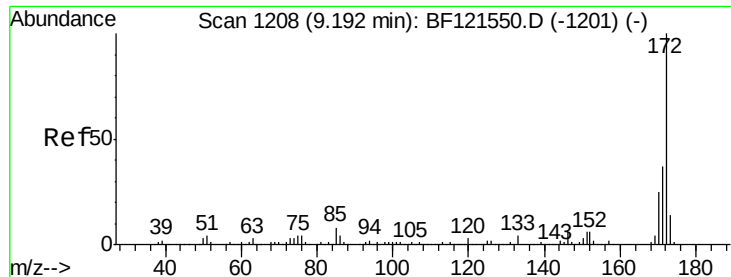
#42
 2,4,6-Tribromophenol
 Concen: 12.411 ng
 RT: 10.62 min Scan# 1450
 Delta R.T. -0.01 min
 Lab File: BF121704.D
 Acq: 28 Sep 2020 11:00

Tgt Ion:330 Resp: 53988
 Ion Ratio Lower Upper
 330 100
 332 97.9 76.0 114.0
 141 31.5 22.2 33.4



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

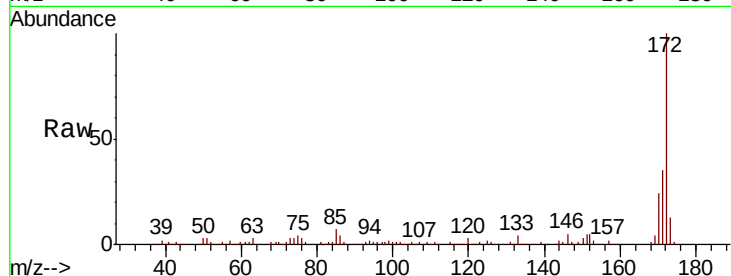




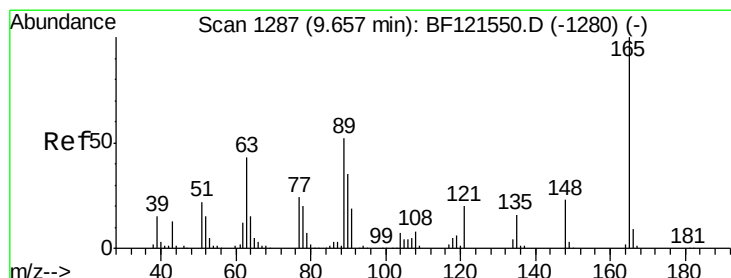
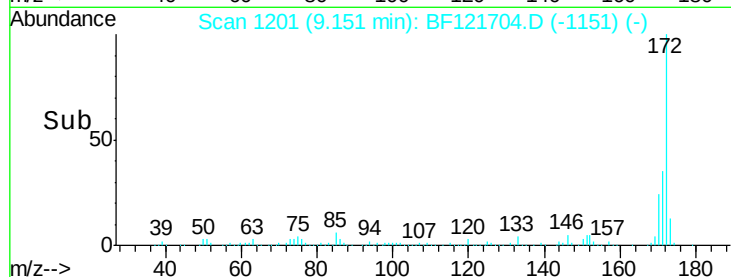
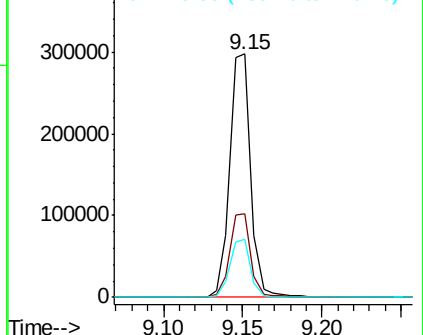
#45
2-Fluorobiphenyl
Concen: 11.871 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.0	43.6
170	23.7	19.5	29.3

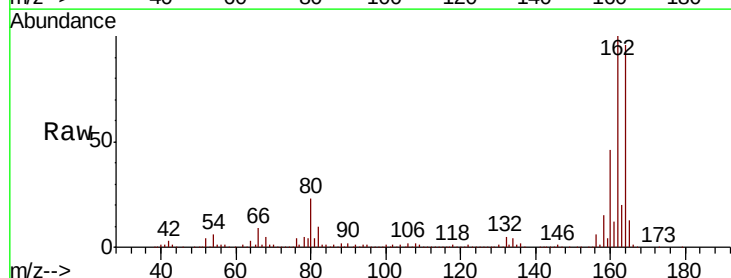


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

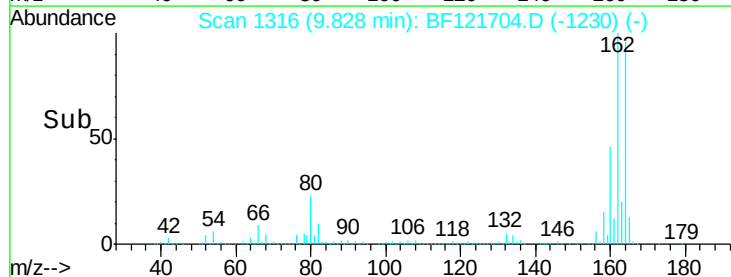
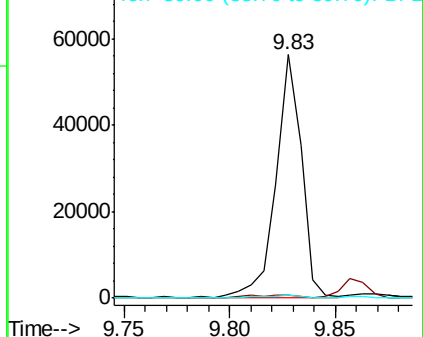


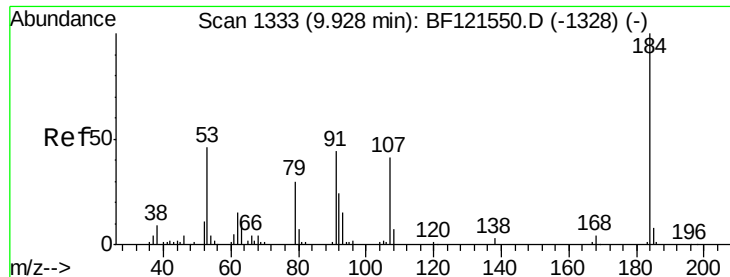
#51
2,6-Dinitrotoluene
Concen: 8.818 ng
RT: 9.83 min Scan# 1316
Delta R.T. 0.21 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	49.8	74.6#
89	1.2	48.2	72.2#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1





#54

2,4-Dinitrophenol

Concen: 9.078 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.22 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

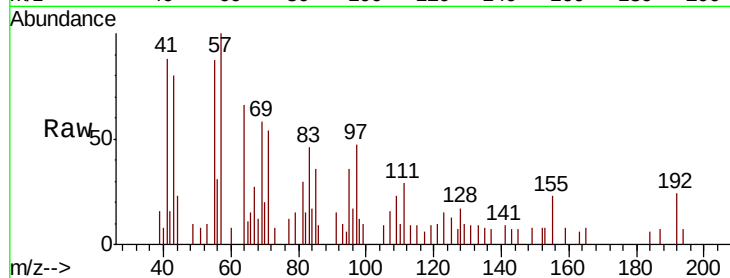
Tot Ion:184 Resp: 106

Ion Ratio Lower Upper

184 100

63 0.0 54.6 82.0#

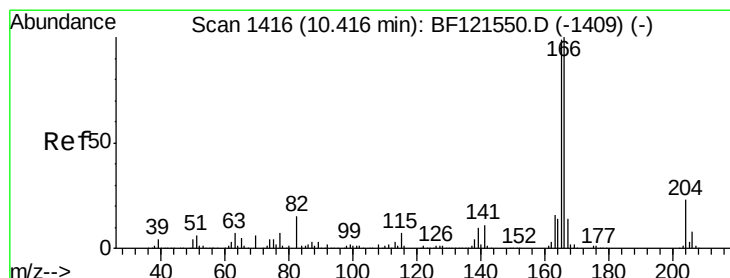
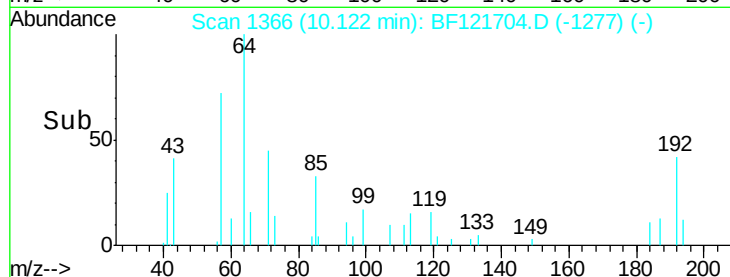
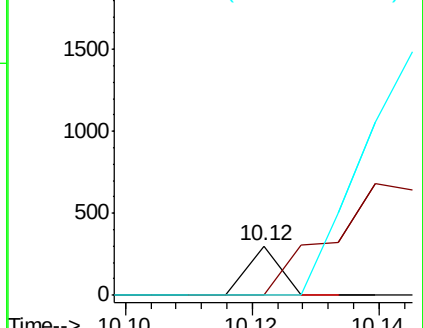
154 0.0 48.4 72.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E



#58

Fluorene

Concen: 3.097 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.01 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

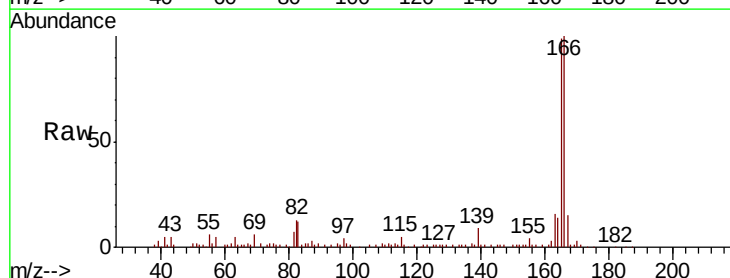
Tgt Ion:166 Resp: 71465

Ion Ratio Lower Upper

166 100

165 99.1 78.8 118.2

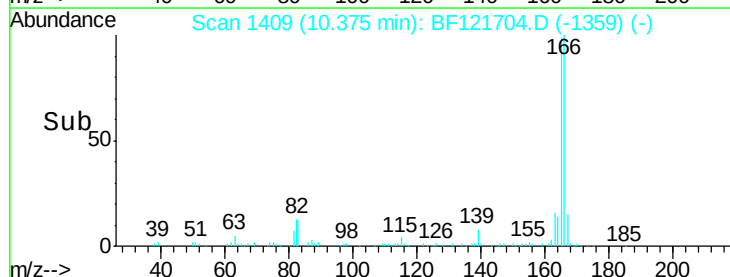
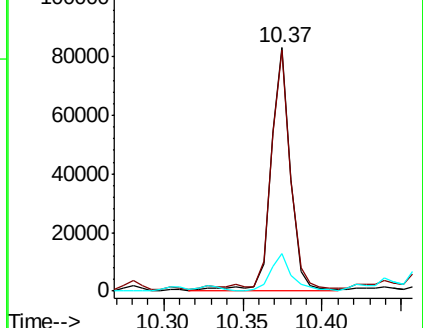
167 15.2 11.0 16.4

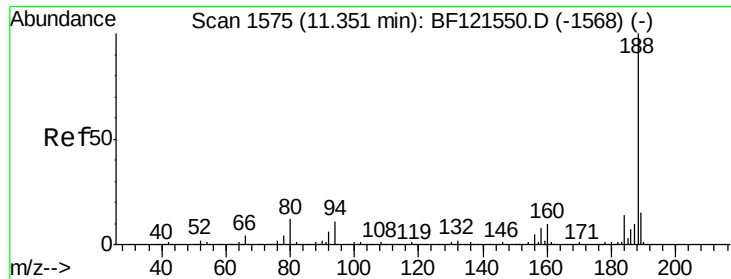


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

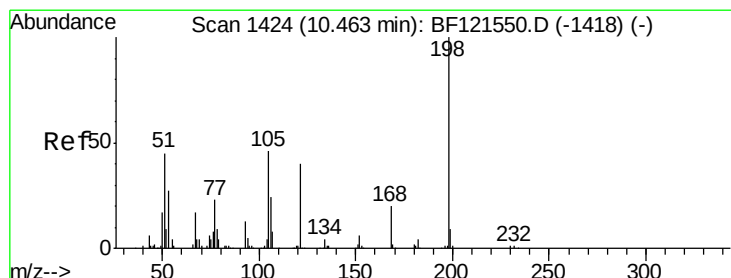
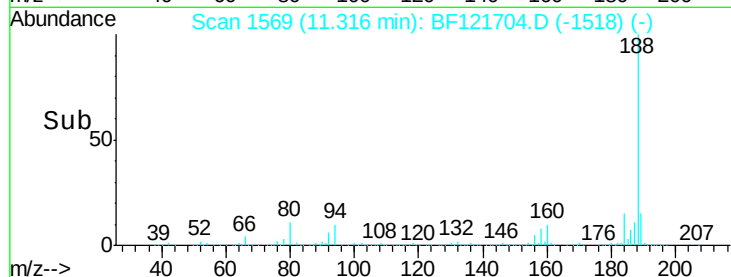
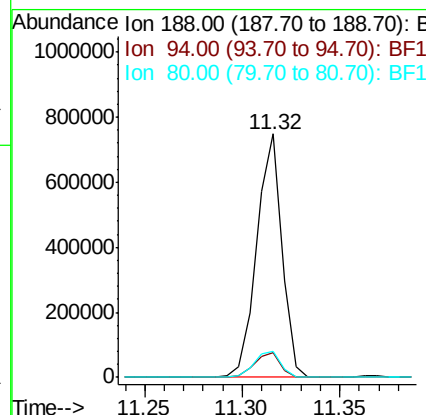
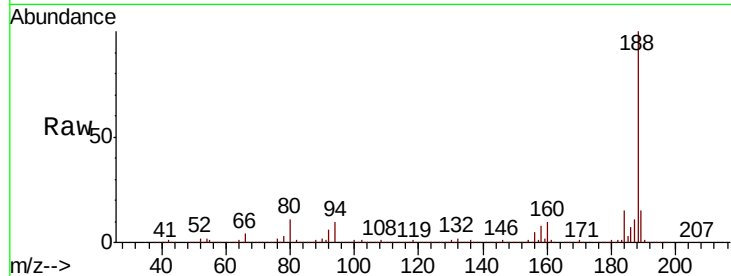




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1569
Delta R.T. 0.00 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

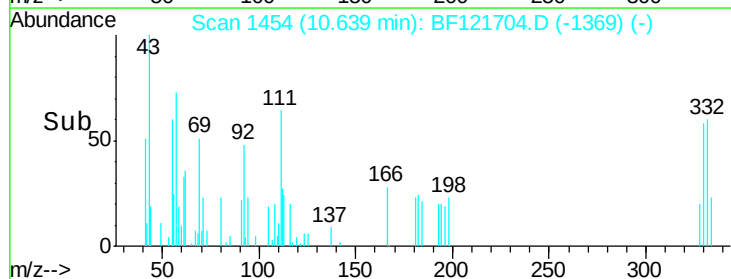
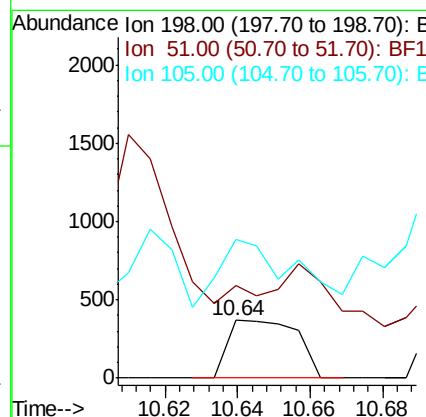
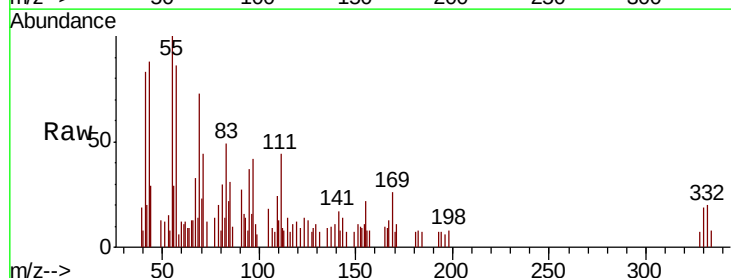
Instrument :
BNA_F
ClientSampleId :
B-3(9-11)DL

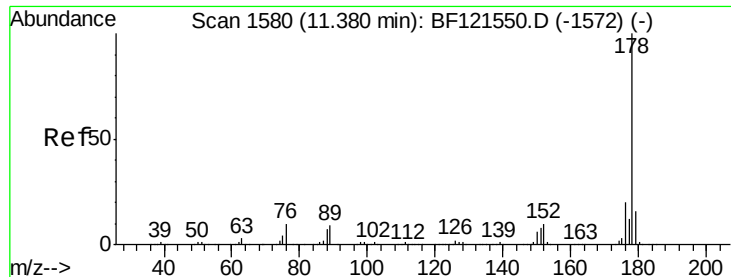
Tot Ion:188 Resp: 666303
Ion Ratio Lower Upper
188 100
94 10.3 8.4 12.6
80 10.5 9.3 13.9



#65
4,6-Dinitro-2-methylphenol
Concen: 6.954 ng
RT: 10.64 min Scan# 1454
Delta R.T. 0.20 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion:198 Resp: 487
Ion Ratio Lower Upper
198 100
51 159.6 18.8 58.8#
105 239.0 18.5 58.5#

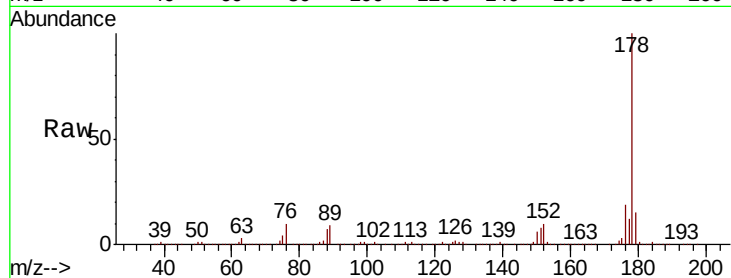




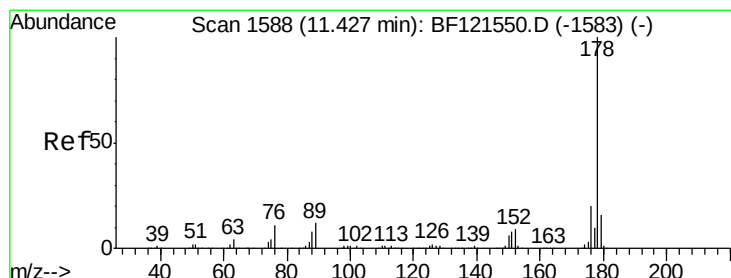
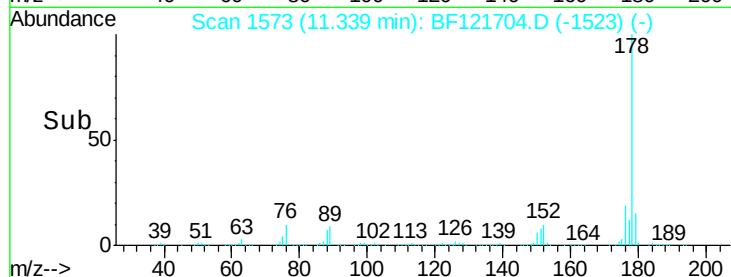
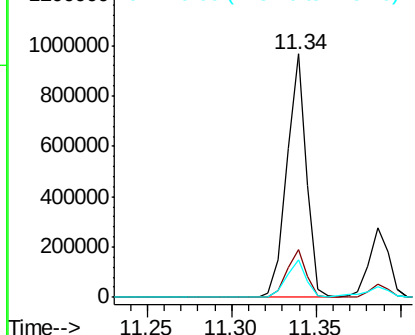
#71
Phenanthrene
Concen: 21.600 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.01 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Instrument :
BNA_F
ClientSampleId :
B-3(9-11)DL

Tot Ion:178 Resp: 784133
Ion Ratio Lower Upper
178 100
176 19.4 16.2 24.4
179 15.4 12.5 18.7

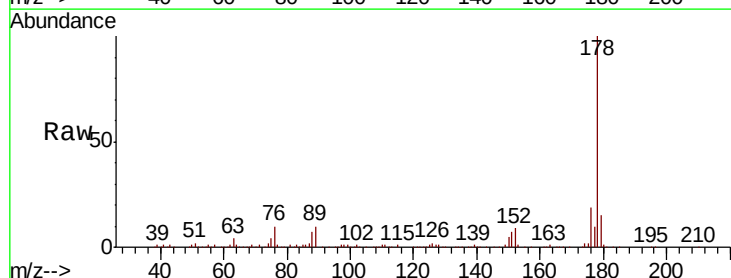


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

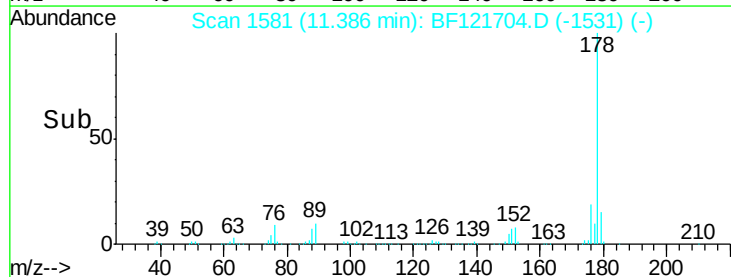
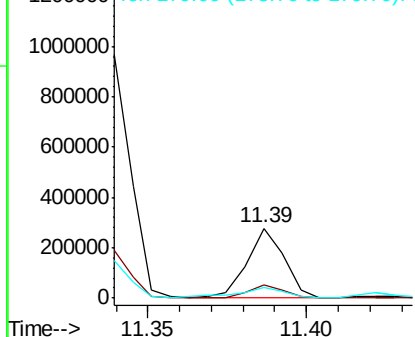


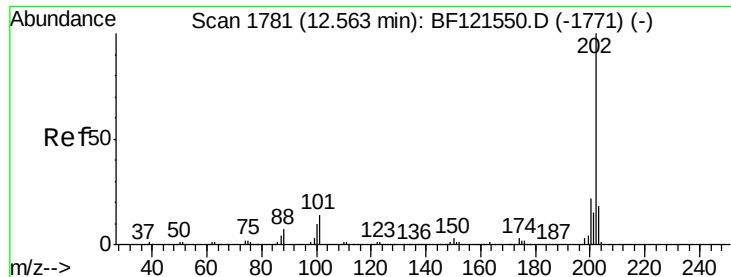
#72
Anthracene
Concen: 5.904 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion:178 Resp: 221193
Ion Ratio Lower Upper
178 100
176 18.6 15.6 23.4
179 15.3 12.7 19.1



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





#75

Fluoranthene

Concen: 28.635 ng

RT: 12.53 min Scan# 1775

Delta R.T. 0.00 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

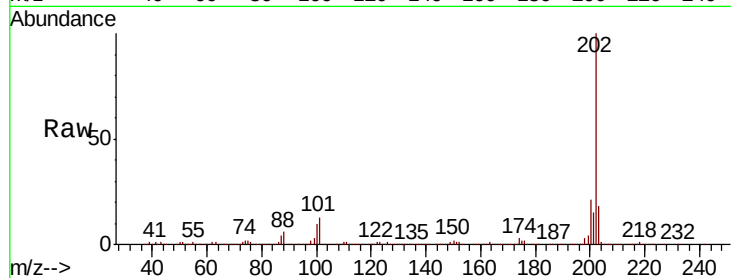
Tot Ion:202 Resp: 1109695

Ion Ratio Lower Upper

202 100

101 12.9 0.0 33.7

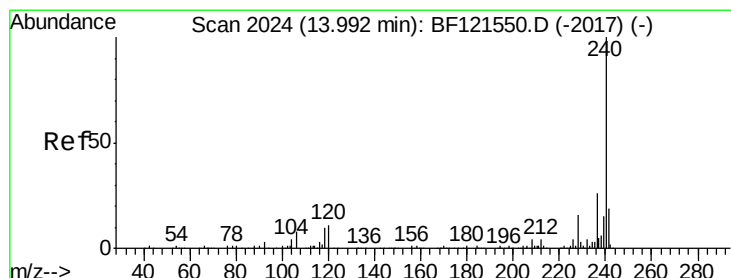
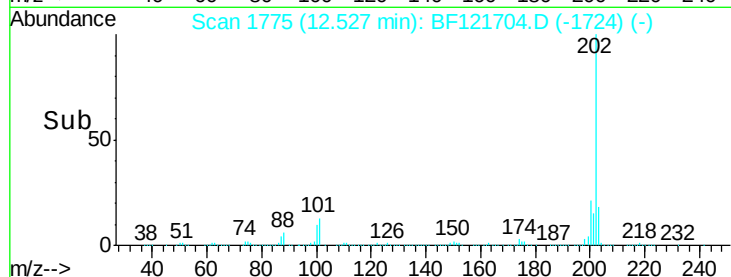
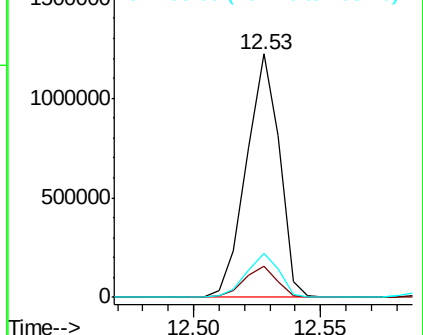
203 18.1 0.0 38.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

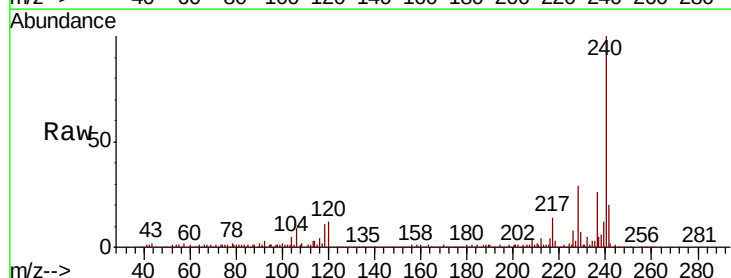
Tgt Ion:240 Resp: 479045

Ion Ratio Lower Upper

240 100

120 12.4 9.1 13.7

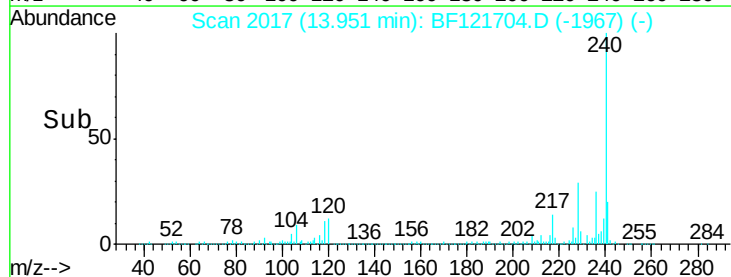
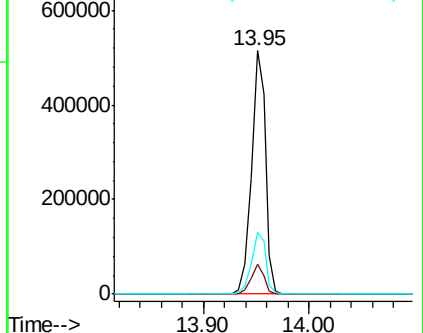
236 25.6 20.6 30.8

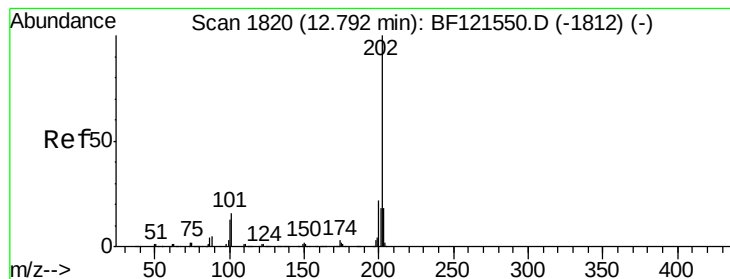


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 24.062 ng

RT: 12.76 min Scan# 1814

Delta R.T. 0.00 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

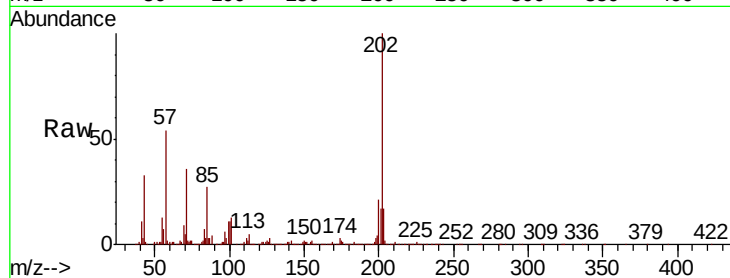
Tot Ion:202 Resp: 842170

Ion Ratio Lower Upper

202 100

200 21.1 17.8 26.8

203 17.4 14.3 21.5



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

1200000

800000

600000

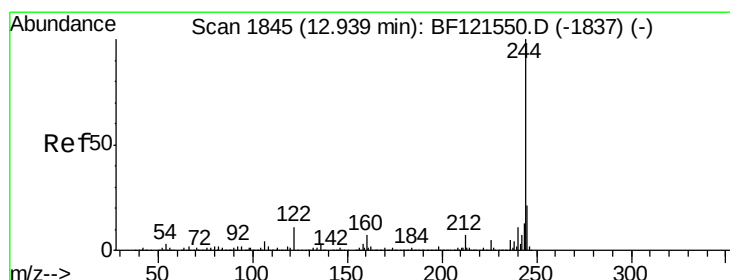
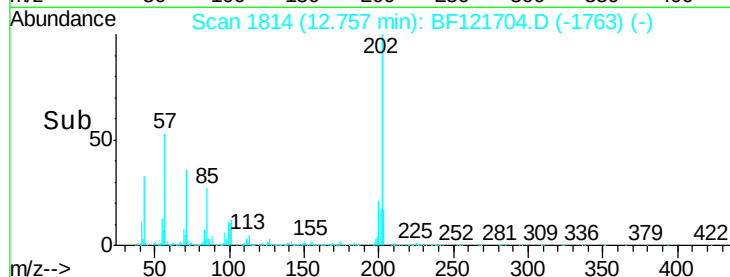
400000

200000

0

12.70 12.75 12.80

Time-->



#79

Terphenyl-d14

Concen: 12.939 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

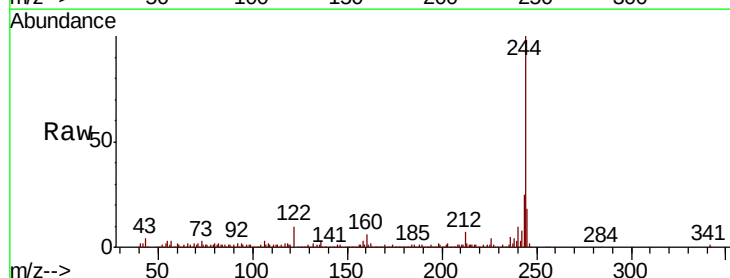
Tgt Ion:244 Resp: 305952

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 9.8 8.0 12.0



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

500000

400000

300000

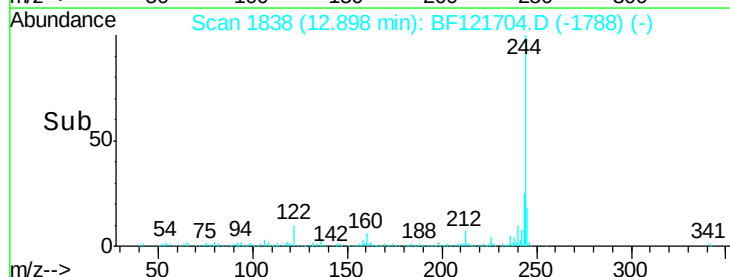
200000

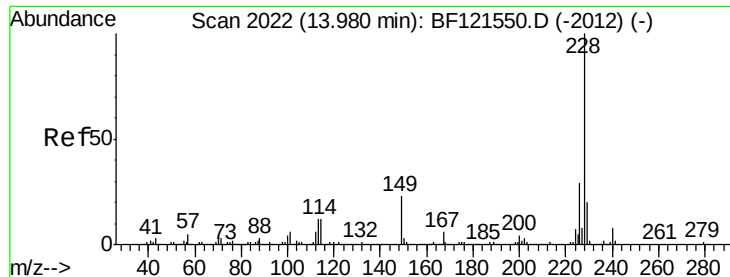
100000

0

12.85 12.90 12.95

Time-->

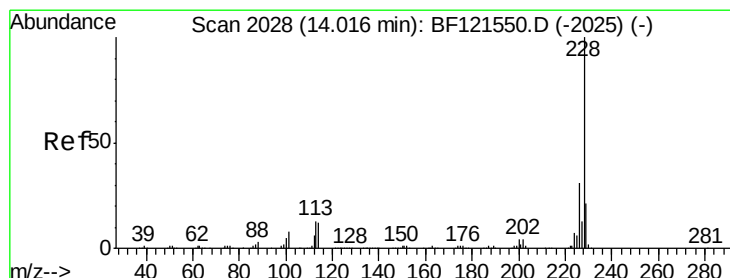
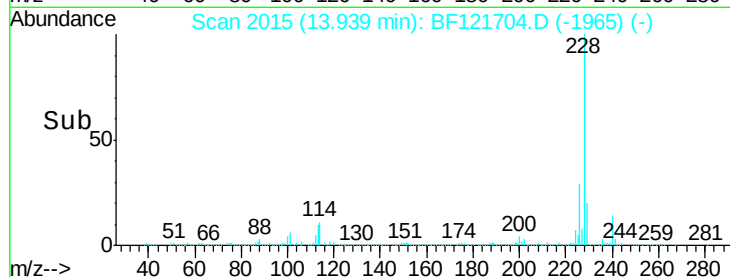
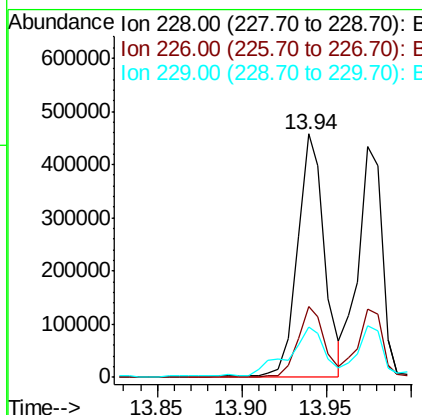
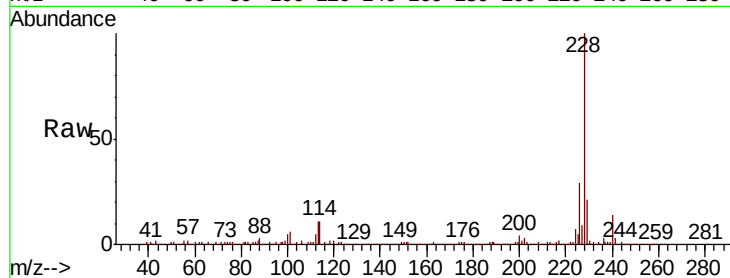




#81
Benzo(a)anthracene
Concen: 16.719 ng
RT: 13.94 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

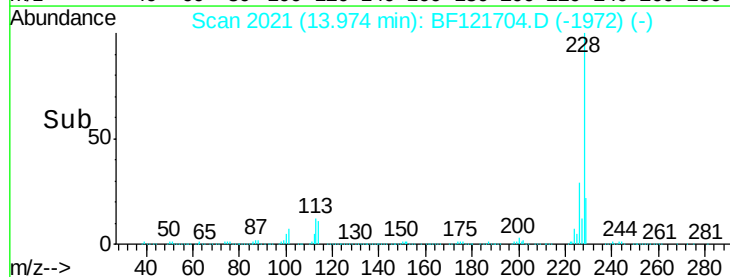
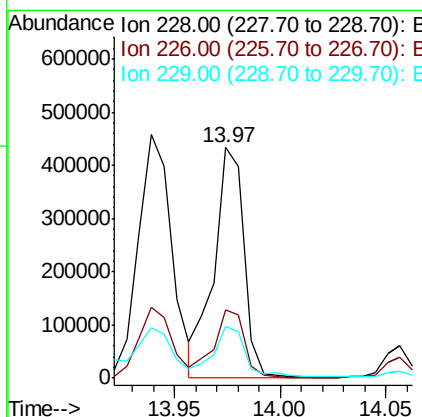
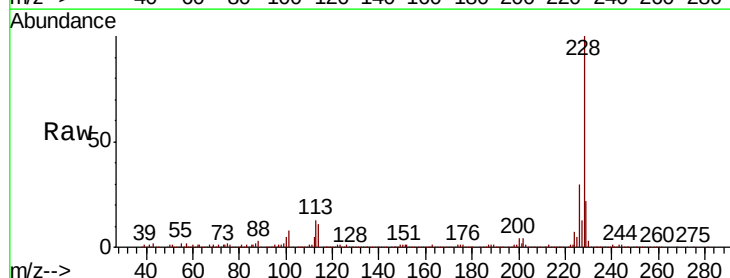
Instrument :
BNA_F
ClientSampleId :
B-3(9-11)DL

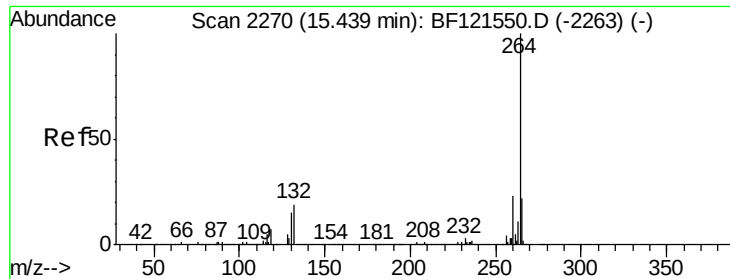
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.5	33.7
229	20.6	16.2	24.4



#83
Chrysene
Concen: 13.953 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	25.0	37.4
229	22.4	16.0	24.0

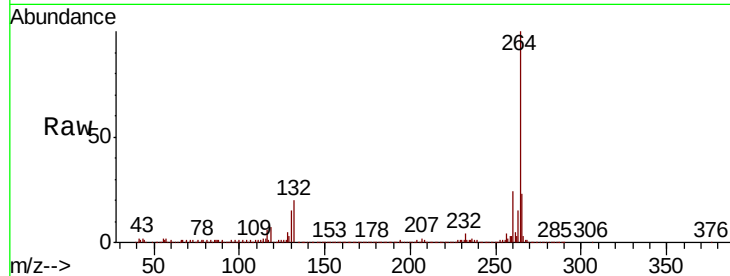




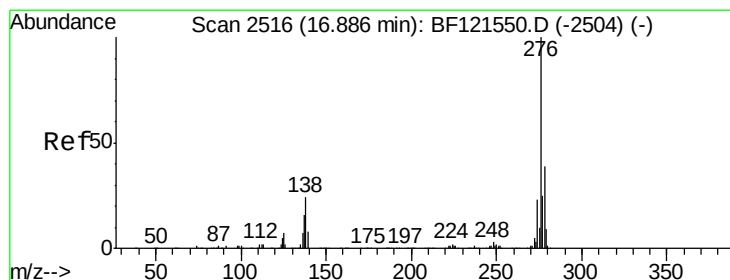
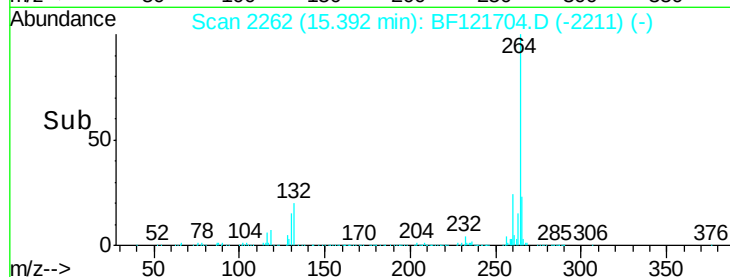
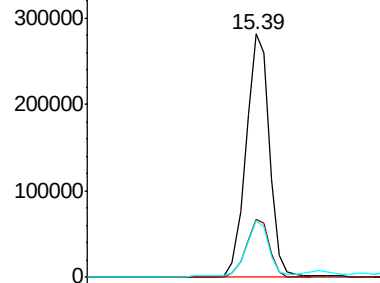
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.39 min Scan# 2262
Delta R.T. 0.00 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Instrument :
BNA_F
ClientSampleId :
B-3(9-11)DL

Tot Ion:264 Resp: 345692
Ion Ratio Lower Upper
264 100
260 23.7 18.4 27.6
265 23.2 17.2 25.8

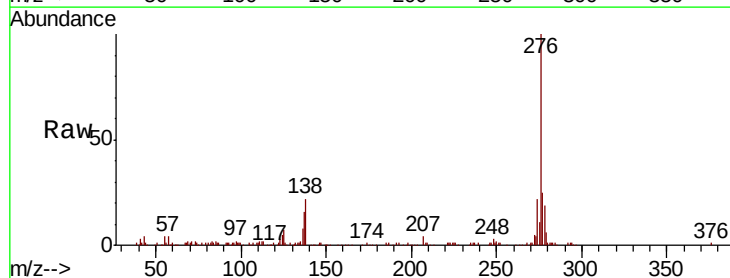


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

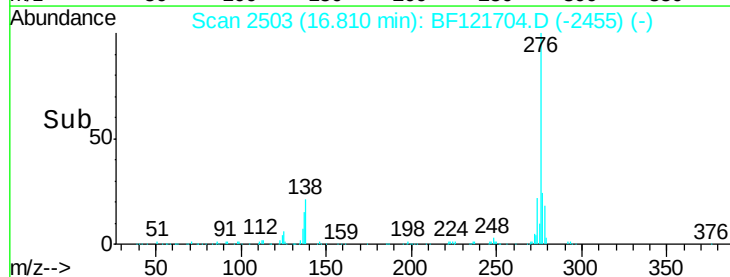
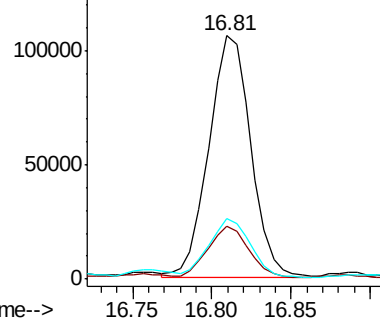


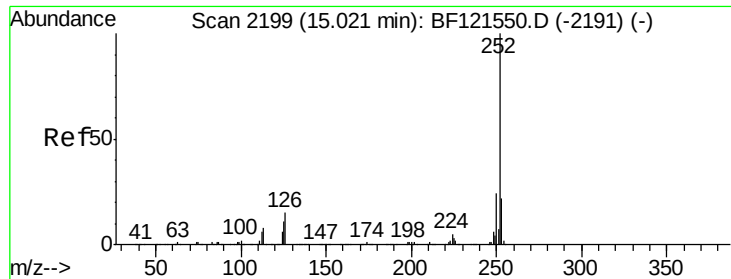
#87
Indeno(1,2,3-cd)pyrene
Concen: 8.703 ng
RT: 16.81 min Scan# 2503
Delta R.T. -0.02 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion:276 Resp: 195927
Ion Ratio Lower Upper
276 100
138 20.9 19.5 29.3
277 24.0 20.2 30.4



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

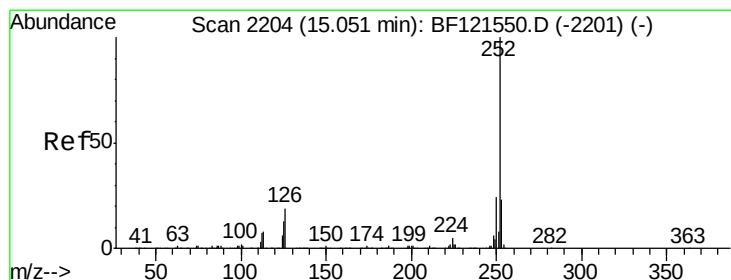
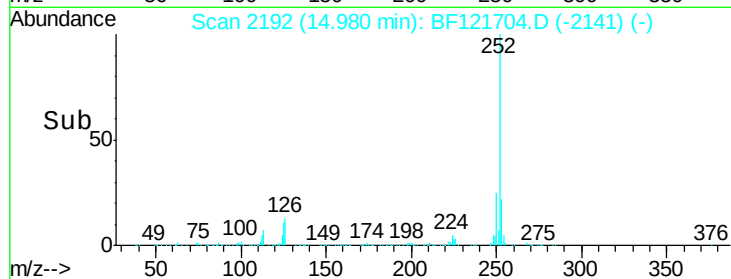
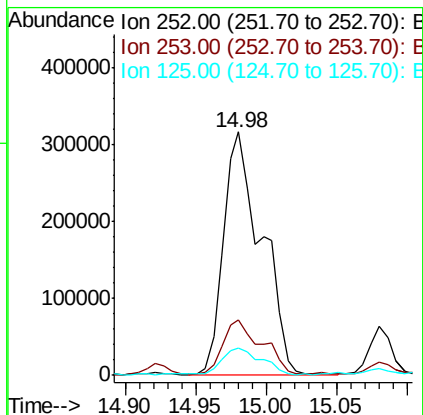
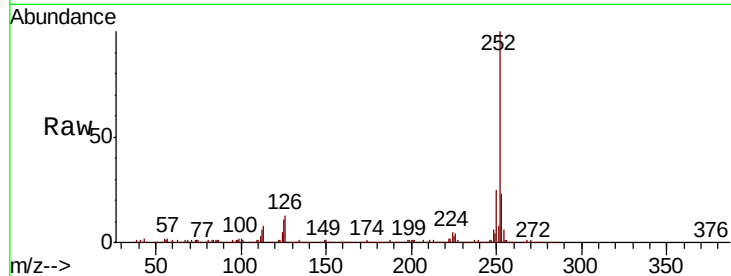




#88
Benzo(b)fluoranthene
Concen: 25.702 ng
RT: 14.98 min Scan# 2192
Delta R.T. 0.00 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

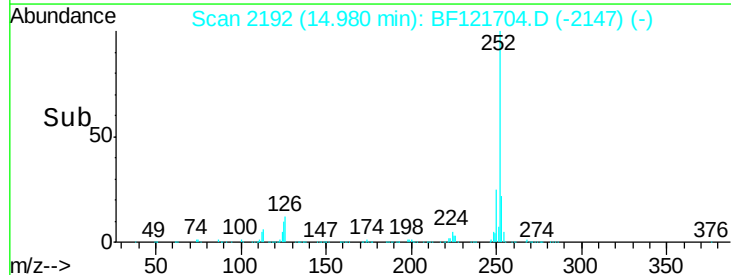
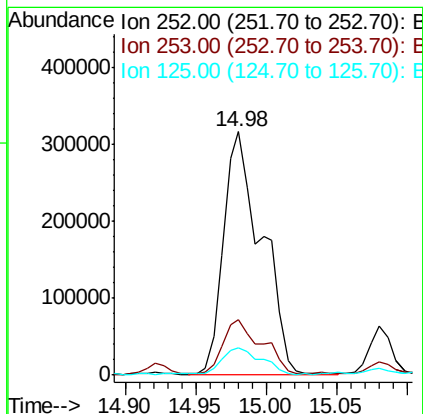
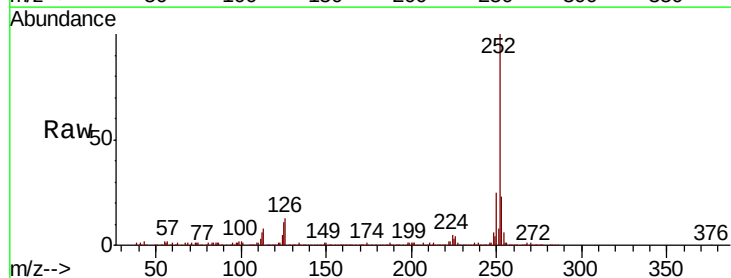
Instrument :
BNA_F
ClientSampleId :
B-3(9-11)DL

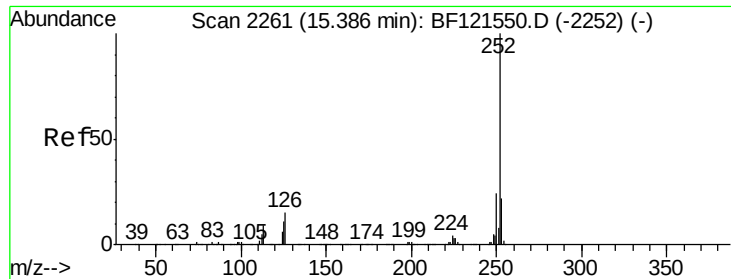
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	11.2	8.6	13.0



#89
Benzo(k)fluoranthene
Concen: 28.067 ng
RT: 14.98 min Scan# 2192
Delta R.T. -0.04 min
Lab File: BF121704.D
Acq: 28 Sep 2020 11:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.6	26.4
125	11.2	7.1	10.7#





#90

Benzo(a)pyrene

Concen: 15.784 ng

RT: 15.33 min Scan# 2252

Delta R.T. -0.01 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

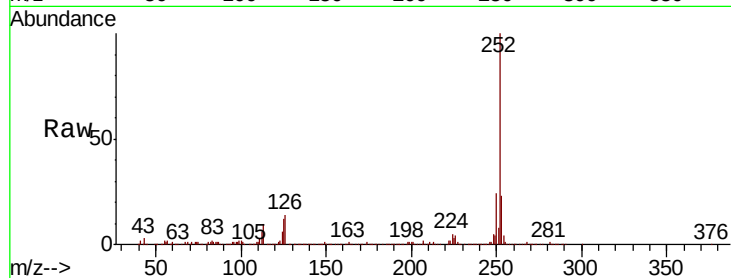
Tot Ion:252 Resp: 310060

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.2

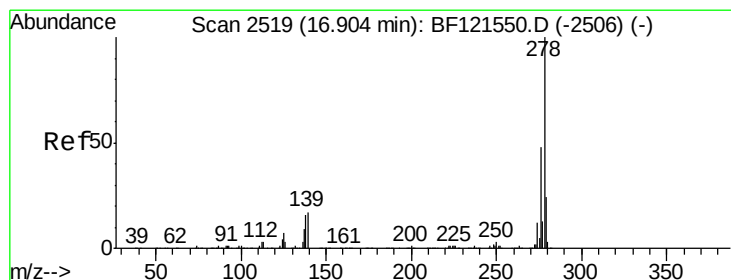
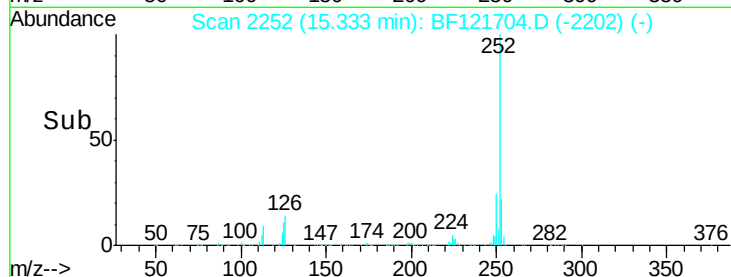
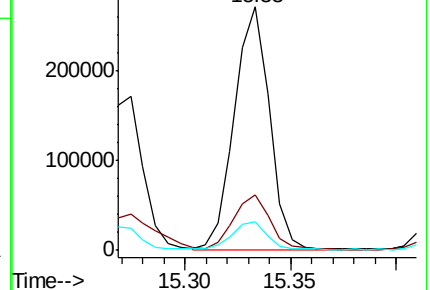
125 11.6 9.2 13.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 2.749 ng

RT: 16.82 min Scan# 2505

Delta R.T. -0.02 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

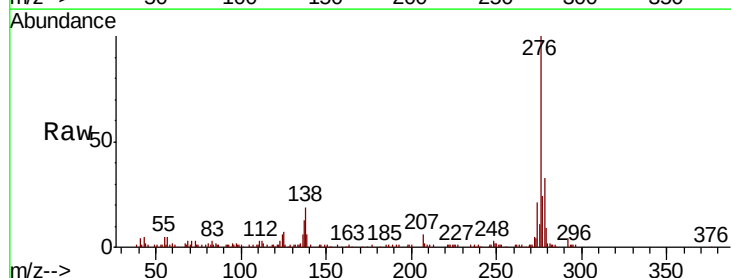
Tgt Ion:278 Resp: 51519

Ion Ratio Lower Upper

278 100

139 19.0 13.0 19.4

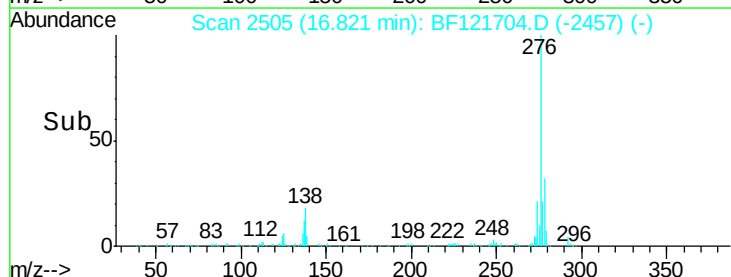
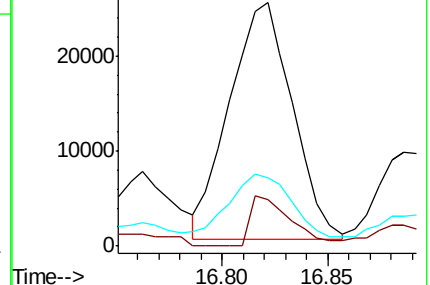
279 28.0 19.3 28.9

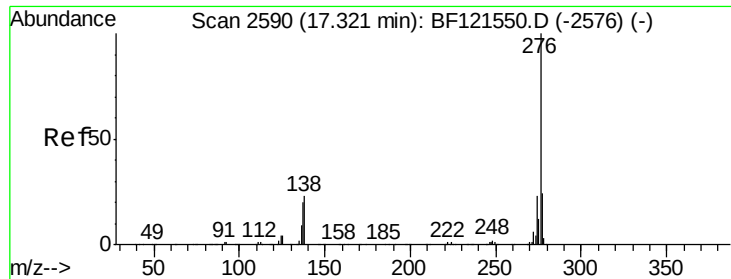


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 10.162 ng

RT: 17.24 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF121704.D

Acq: 28 Sep 2020 11:00

Instrument :

BNA_F

ClientSampleId :

B-3(9-11)DL

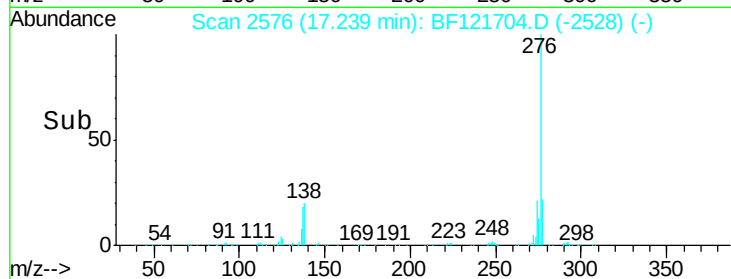
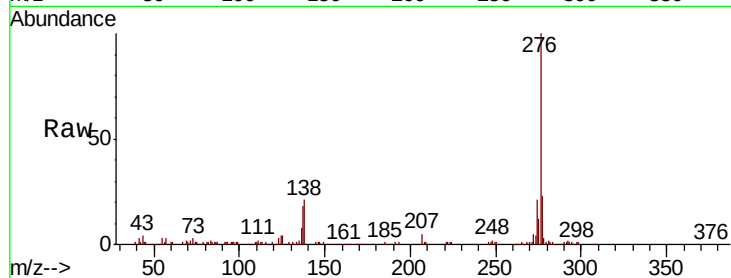
Tot Ion:276 Resp: 187197

Ion Ratio Lower Upper

276 100

277 23.1 18.8 28.2

138 20.8 16.6 25.0



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

