

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100120\
 Data File : BF121784.D
 Acq On : 1 Oct 2020 23:52
 Operator : JU/CG
 Sample : L4193-06DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)DL

Quant Time: Oct 02 00:42:47 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	127924	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	461132	20.00	ng	0.00
39) Acenaphthene-d10	9.81	164	201963	20.00	ng	0.00
64) Phenanthrene-d10	11.30	188	340660	20.00	ng	0.00
76) Chrysene-d12	13.94	240	307342	20.00	ng	0.01
86) Perylene-d12	15.39	264	257900	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.39	112	395988	46.00	ng	0.00
7) Phenol-d6	6.41	99	485872	43.02	ng	0.00
23) Nitrobenzene-d5	7.33	82	303207	35.30	ng	0.00
42) 2,4,6-Tribromophenol	10.60	330	90900	36.21	ng	0.00
45) 2-Fluorobiphenyl	9.13	172	517392	38.80	ng	0.00
79) Terphenyl-d14	12.88	244	454917	29.99	ng	0.00

Target Compounds

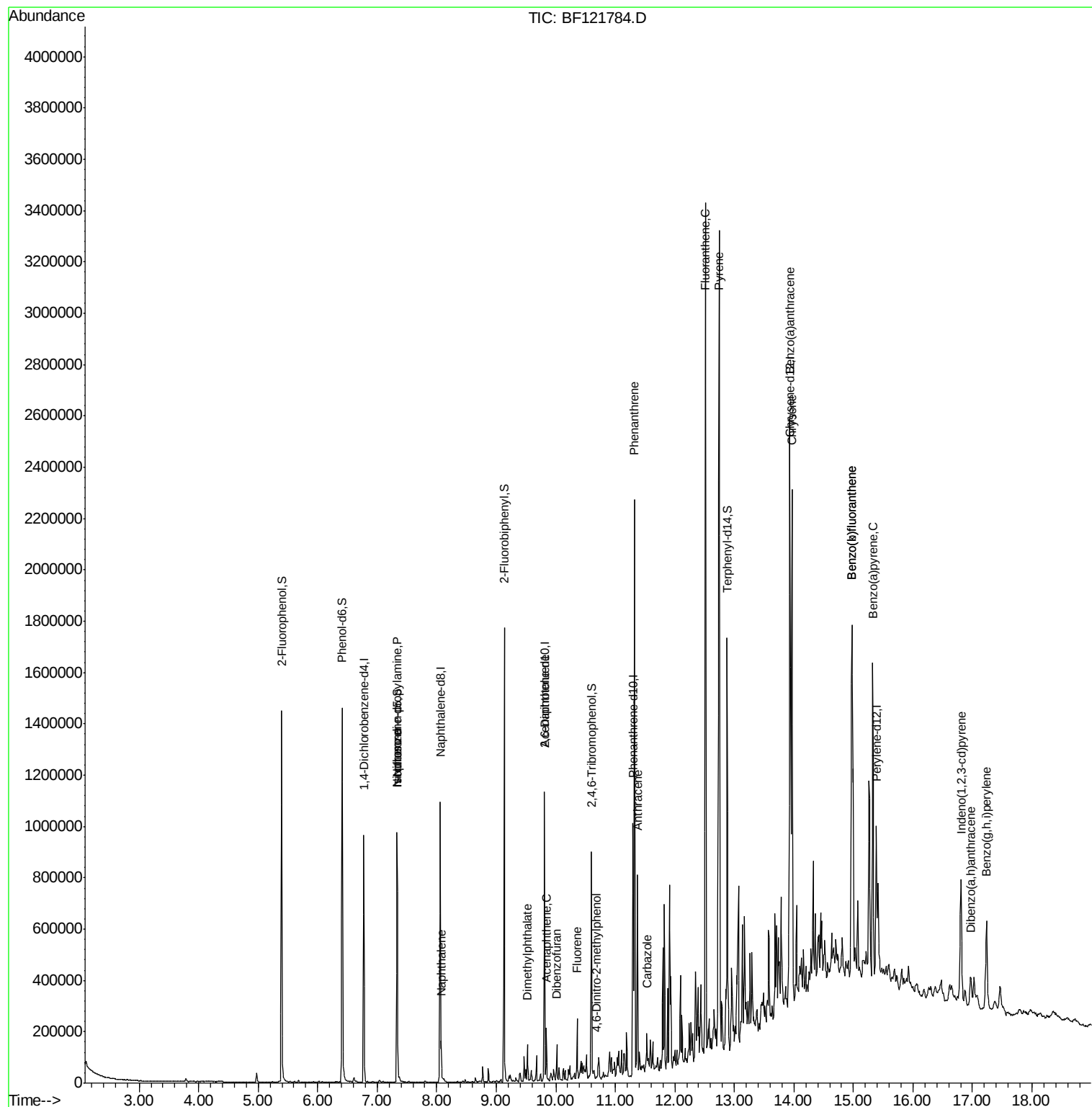
						Qvalue
19) n-Nitroso-di-n-propylamine	7.33	70	39657	6.093	ng	# 79
25) Isophorone	7.33	82	303204	17.538	ng	# 67
31) Naphthalene	8.08	128	62326	2.560	ng	99
50) Dimethylphthalate	9.53	163	46721	3.192	ng	99
51) 2,6-Dinitrotoluene	9.81	165	27366	8.778	ng	# 21
52) Acenaphthene	9.85	154	44356	3.587	ng	98
55) Dibenzofuran	10.02	168	38065	2.186	ng	# 97
58) Fluorene	10.36	166	59282	4.452	ng	97
65) 4,6-Dinitro-2-methylphenol	10.67	198	241	6.951	ng	# 1
71) Phenanthrene	11.32	178	786922	42.398	ng	99
72) Anthracene	11.37	178	274898	14.352	ng	98
73) Carbazole	11.53	167	47324	2.738	ng	99
75) Fluoranthene	12.52	202	1401884	70.755	ng	99
78) Pyrene	12.74	202	1361195	60.618	ng	100
81) Benzo(a)anthracene	13.93	228	832682	42.825	ng	99
83) Chrysene	13.97	228	694905	35.293	ng	97
87) Indeno(1,2,3-cd)pyrene	16.81	276	296240	17.638	ng	95
88) Benzo(b)fluoranthene	14.97	252	1059208	61.436	ng	99
89) Benzo(k)fluoranthene	14.97	252	1059208	67.089	ng	98
90) Benzo(a)pyrene	15.33	252	557496	38.040	ng	97
91) Dibenzo(a,h)anthracene	16.97	278	69852	4.996	ng	95
92) Benzo(g,h,i)perylene	17.24	276	269676	19.623	ng	99

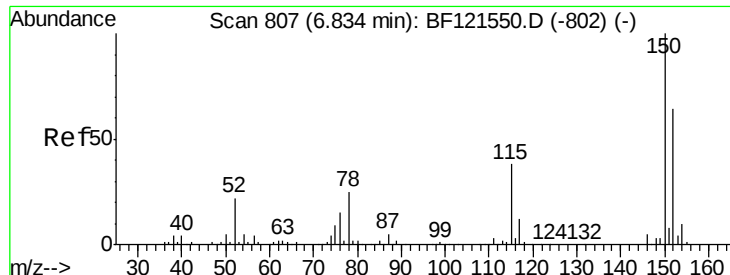
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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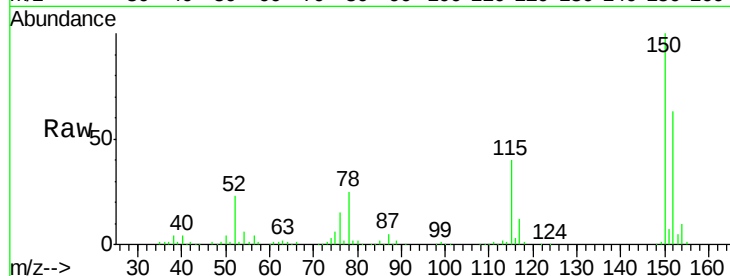


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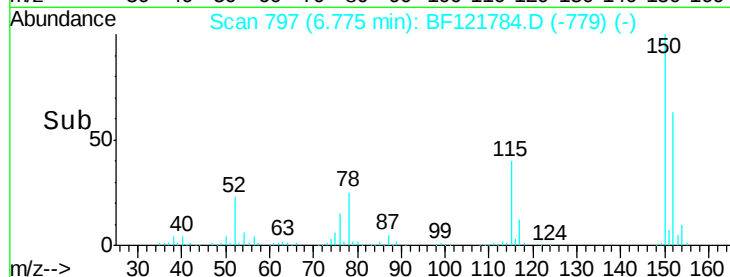
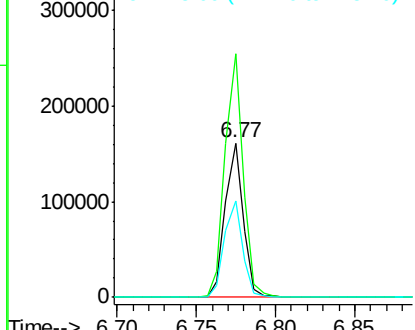
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

Tot Ion:152 Resp: 127924
Ion Ratio Lower Upper
152 100
150 157.8 125.3 187.9
115 62.7 51.9 77.9



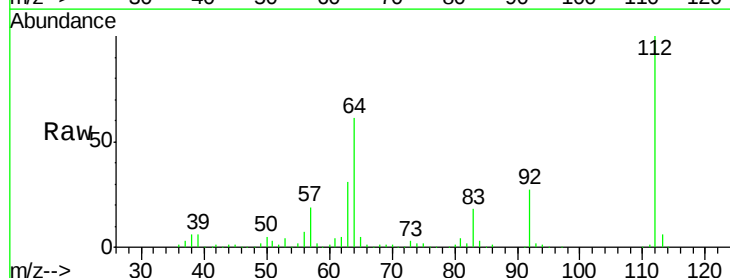
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



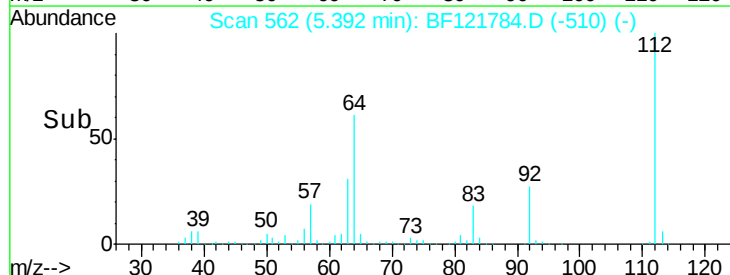
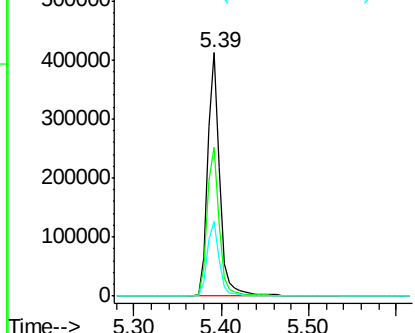
#5

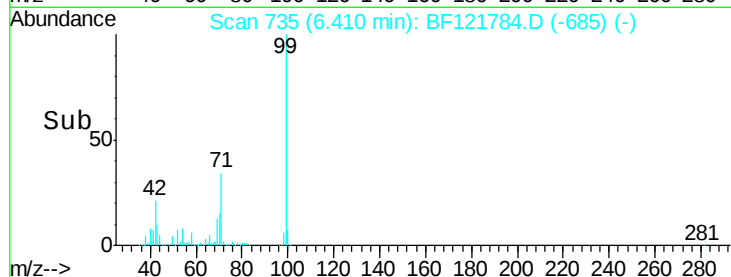
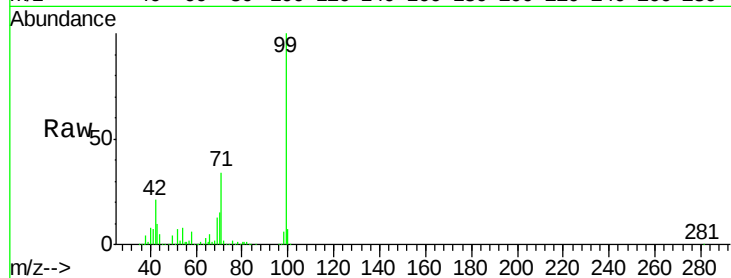
2-Fluorophenol
Concen: 46.003 ng
RT: 5.39 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion:112 Resp: 395988
Ion Ratio Lower Upper
112 100
64 61.2 50.4 75.6
63 30.6 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 43.024 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

Instrument :

BNA_F

ClientSampleId :

B-14(11-13)DL

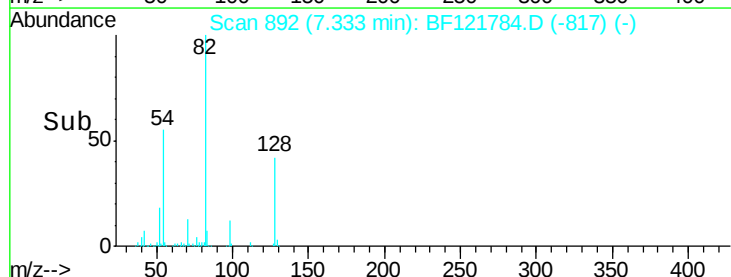
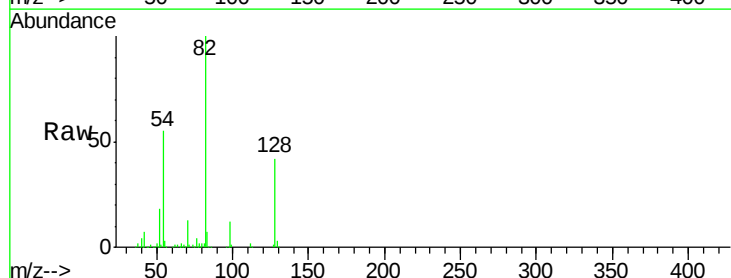
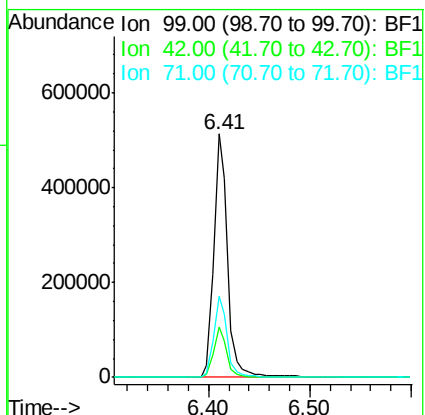
Tot Ion: 99 Resp: 485872

Ion Ratio Lower Upper

99 100

42 20.5 15.9 23.9

71 33.5 27.1 40.7



#19

n-Nitroso-di-n-propylamine

Concen: 6.093 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.14 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

Tgt Ion: 70 Resp: 39657

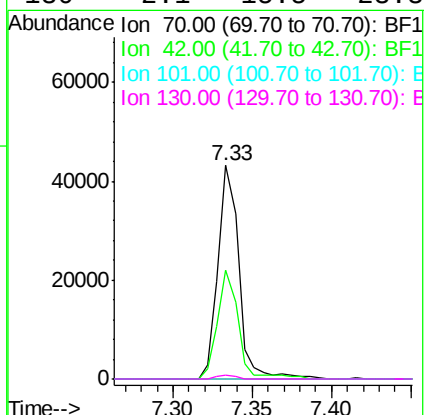
Ion Ratio Lower Upper

70 100

42 51.2 50.2 75.4

101 0.0 7.5 11.3#

130 2.1 15.5 23.3#

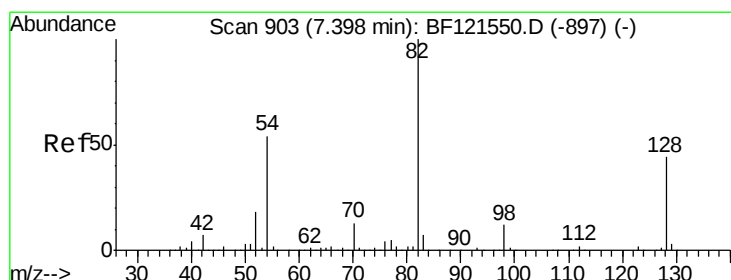
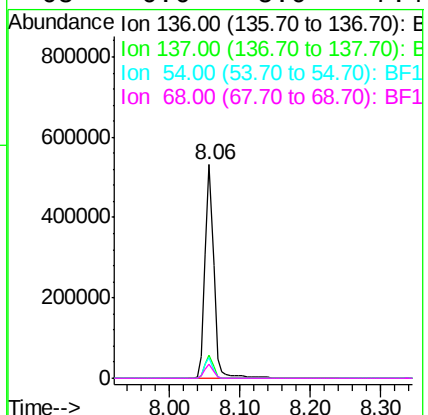
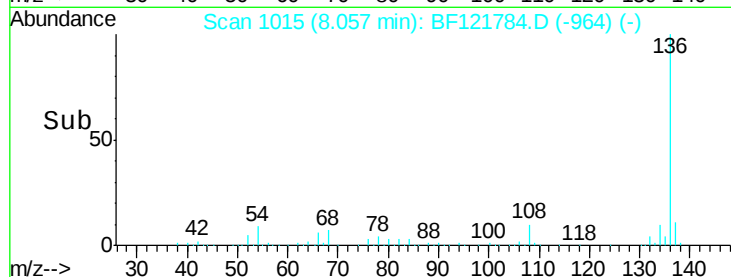
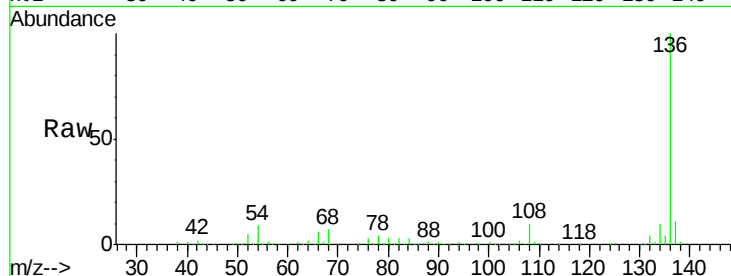




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.06 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

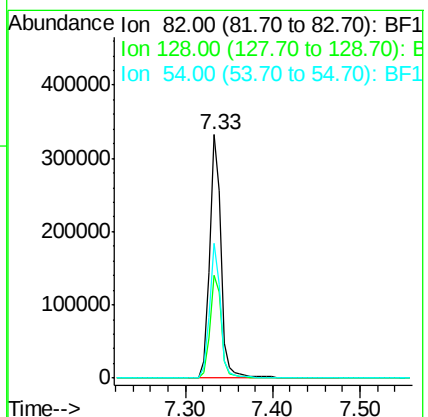
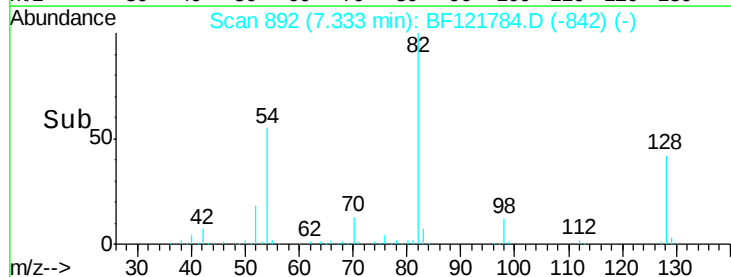
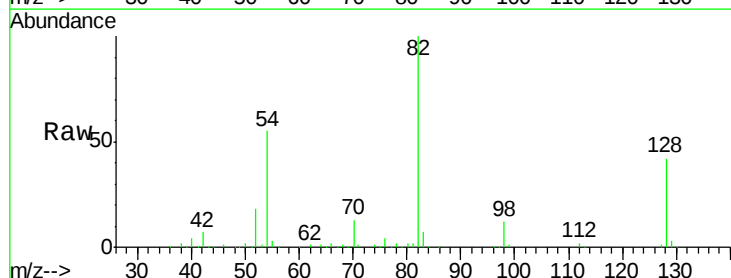
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

Tot Ion:136	Resp:	461132
Ion	Ratio	Lower Upper
136	100	
137	10.8	8.6 13.0
54	9.3	7.1 10.7
68	6.6	5.0 7.4



#23
Nitrobenzene-d5
Concen: 35.304 ng
RT: 7.33 min Scan# 892
Delta R.T. -0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion: 82	Resp:	303207
Ion	Ratio	Lower Upper
82	100	
128	42.1	35.0 52.4
54	55.3	43.9 65.9





#25

Isophorone

Concen: 17.538 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.26 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

Instrument :

BNA_F

ClientSampleId :

B-14(11-13)DL

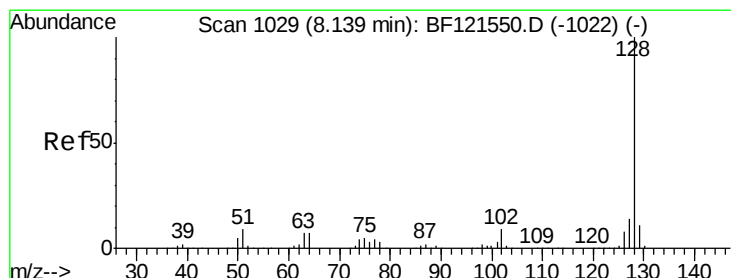
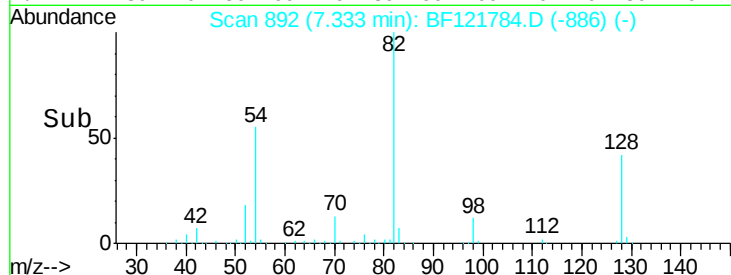
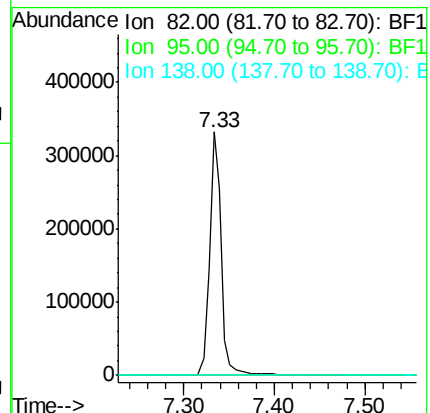
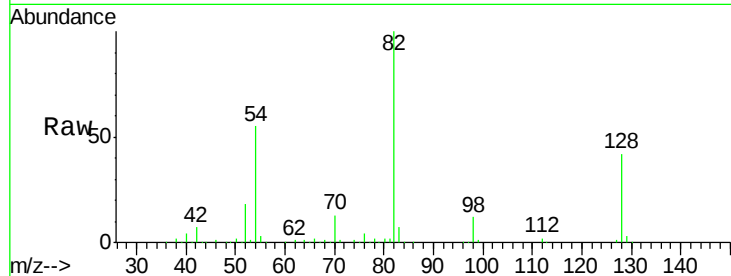
Tot Ion: 82 Resp: 303204

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

138 0.0 13.4 20.0#



#31

Naphthalene

Concen: 2.560 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

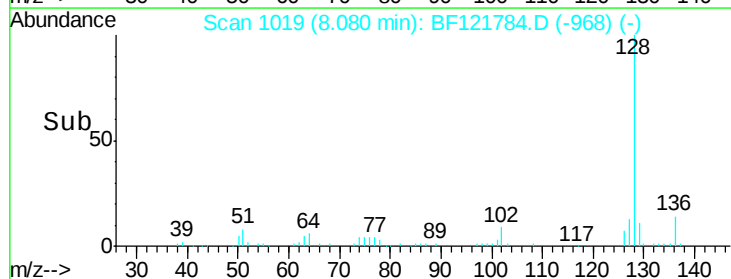
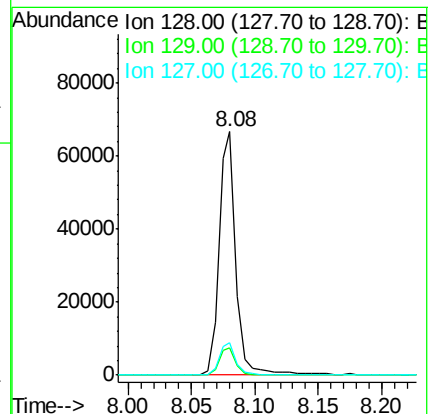
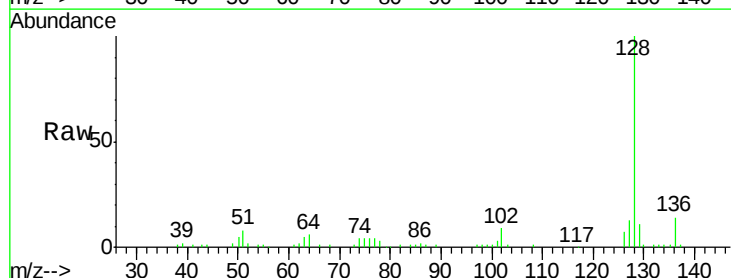
Tgt Ion: 128 Resp: 62326

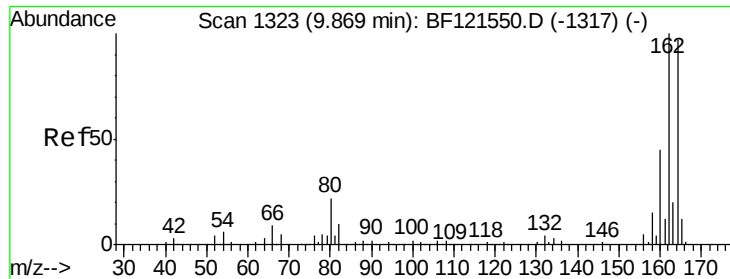
Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

127 13.2 10.8 16.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.00 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

Instrument :

BNA_F

ClientSampleId :

B-14(11-13)DL

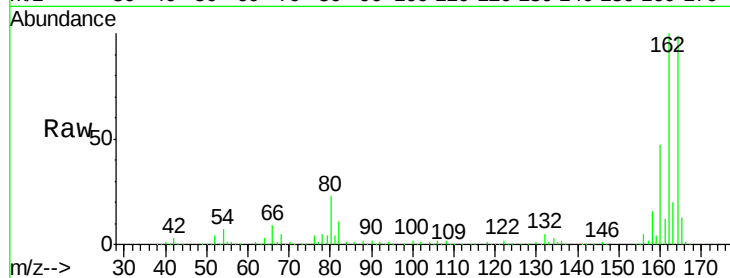
Tot Ion:164 Resp: 201963

Ion Ratio Lower Upper

164 100

162 101.5 83.2 124.8

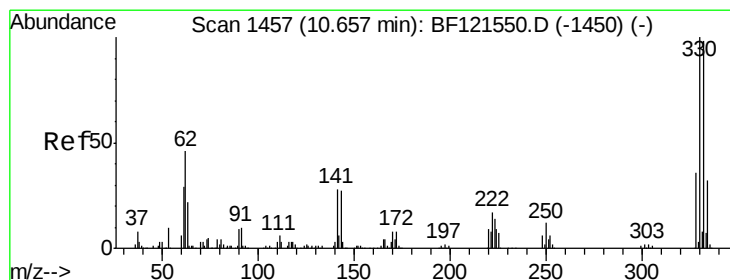
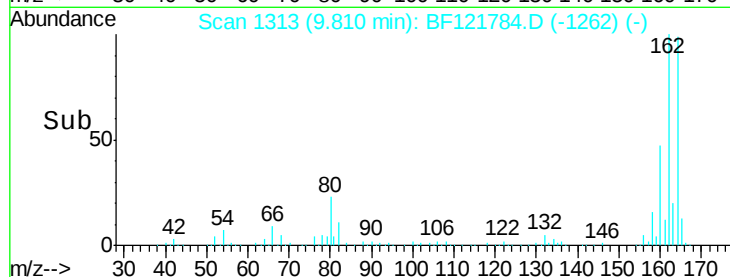
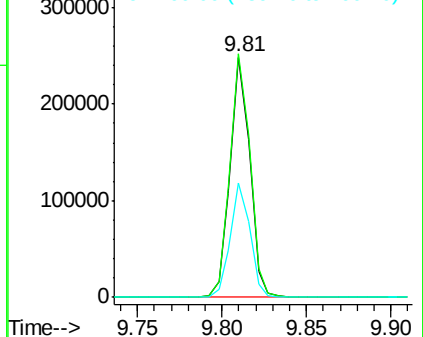
160 47.7 37.5 56.3



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: 36.213 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

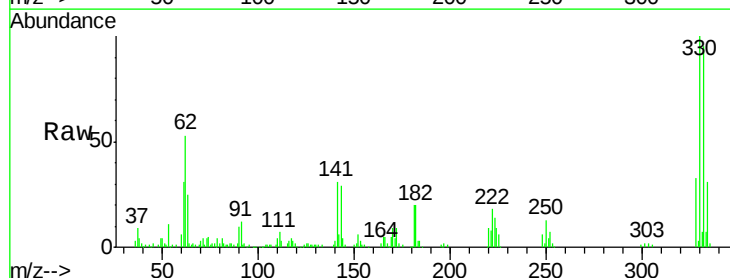
Tgt Ion:330 Resp: 90900

Ion Ratio Lower Upper

330 100

332 96.2 77.3 115.9

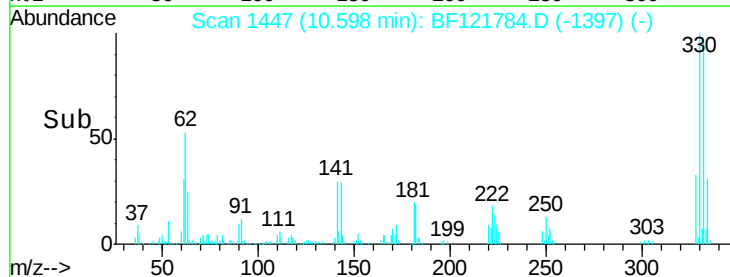
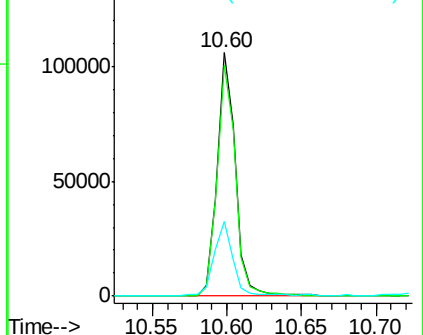
141 32.9 22.3 33.5

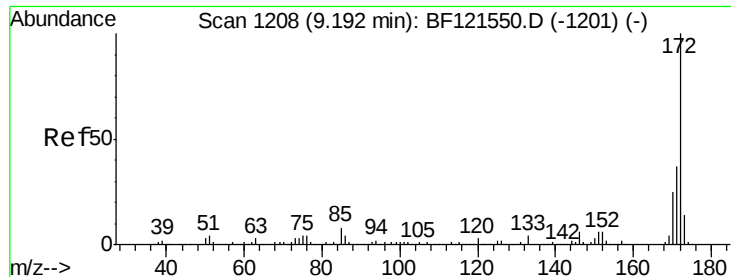


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

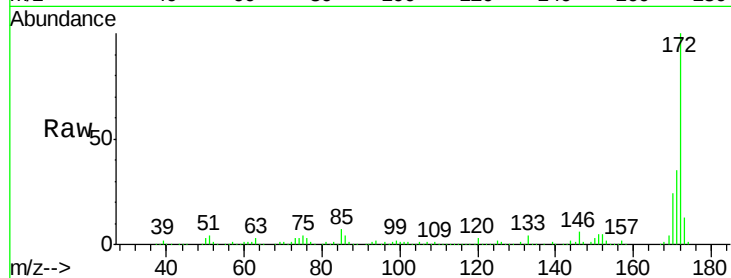




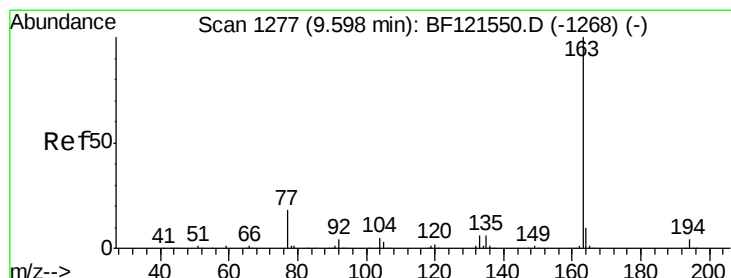
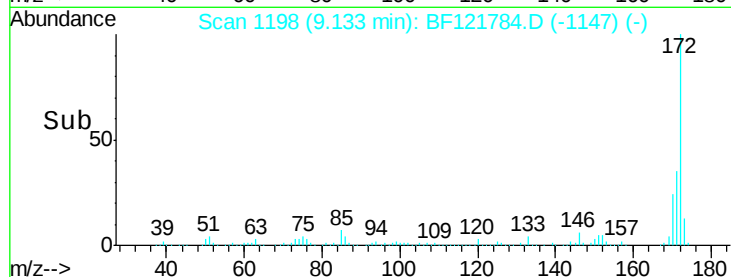
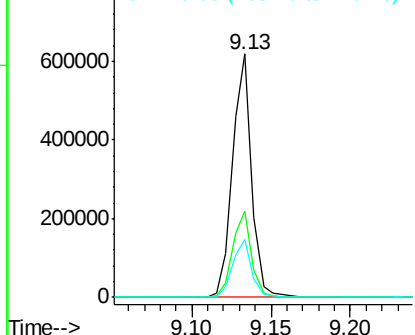
#45
 2-Fluorobiphenyl
 Concen: 38.799 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.00 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

Instrument :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.1	43.7
170	23.8	19.8	29.6

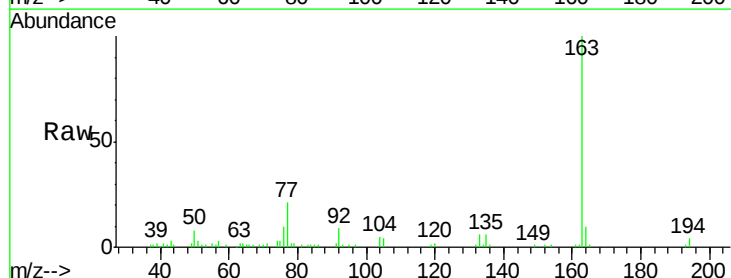


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

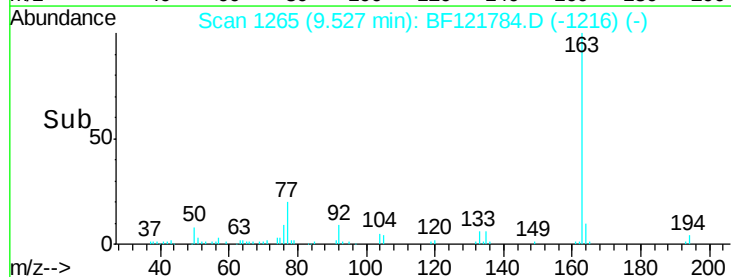
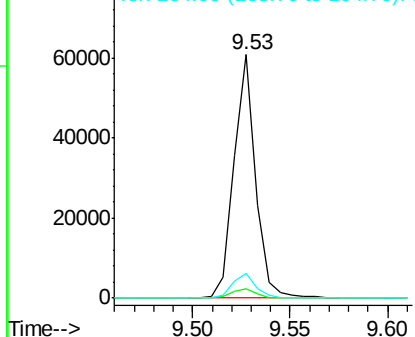


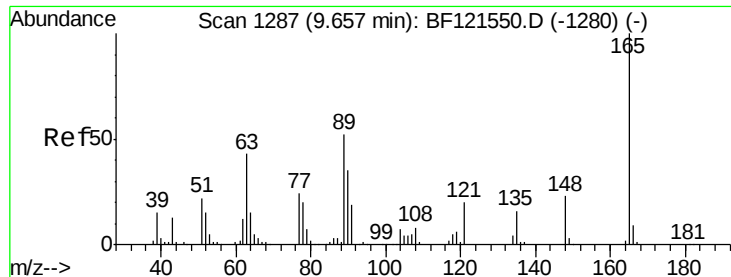
#50
 Dimethylphthalate
 Concen: 3.192 ng
 RT: 9.53 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.3	4.9
164	10.0	8.2	12.4



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

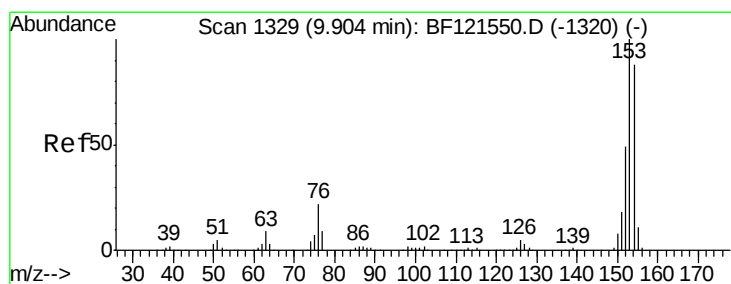
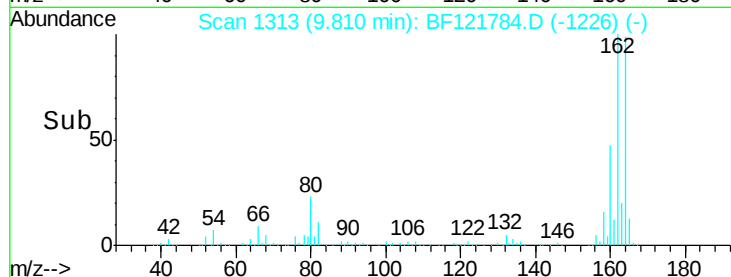
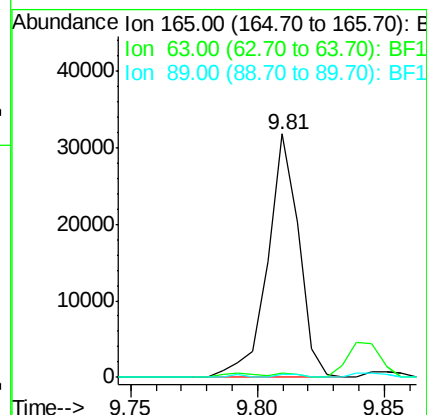
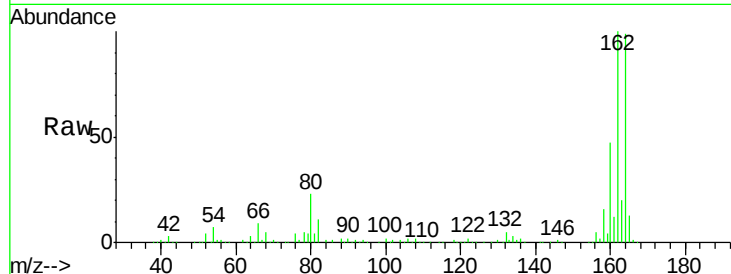




#51
 2,6-Dinitrotoluene
 Concen: 8.778 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. 0.21 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

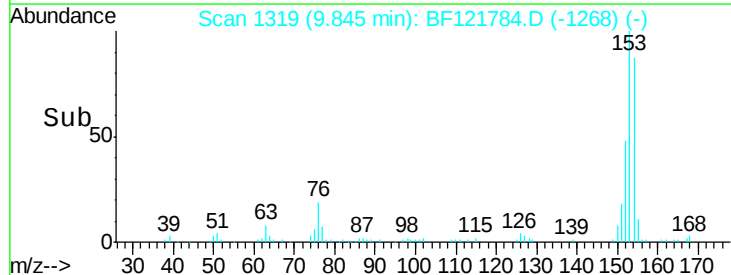
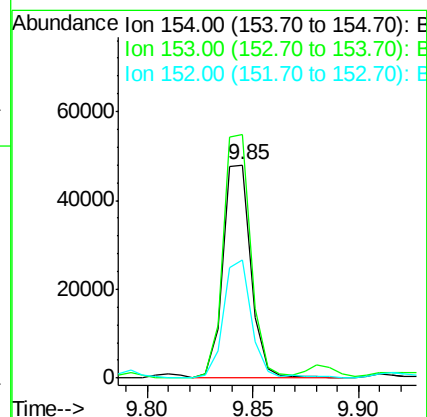
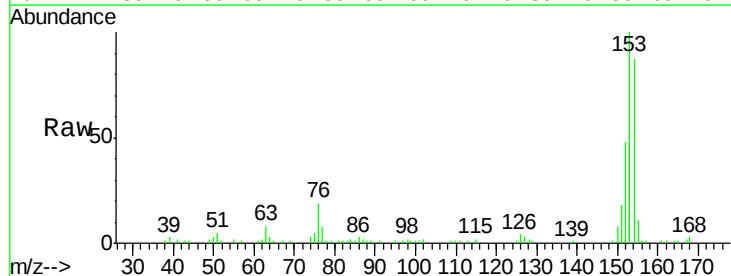
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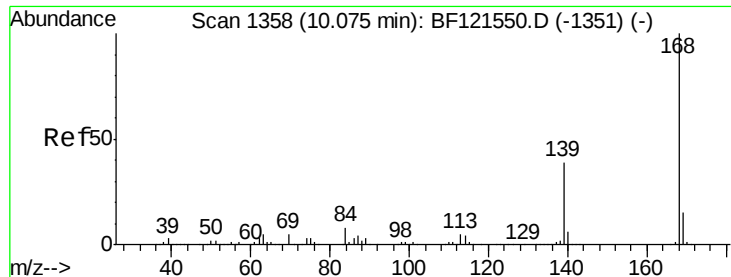
Tot Ion	165	Resp	27366
Ion Ratio	100	Lower	Upper
63	1.5	51.8	77.6#
89	1.4	49.0	73.6#



#52
 Acenaphthene
 Concen: 3.587 ng
 RT: 9.85 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

Tgt Ion	154	Resp	44356
Ion Ratio	100	Lower	Upper
153	114.3	89.8	134.8
152	55.4	43.2	64.8

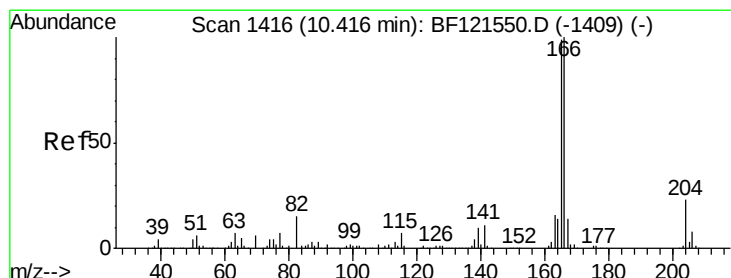
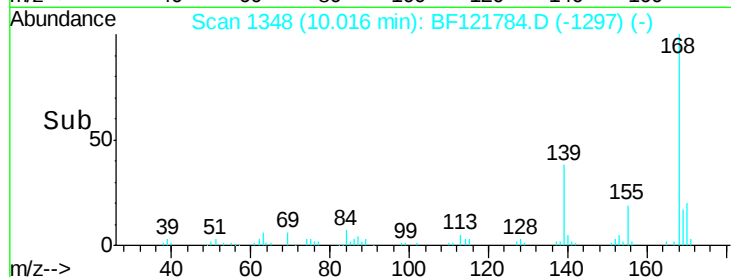
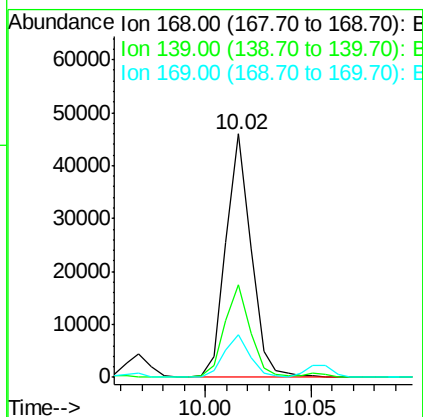
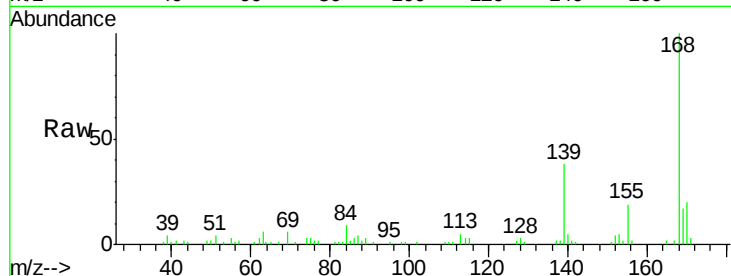




#55
Dibenzenofuran
Concen: 2.186 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.00 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

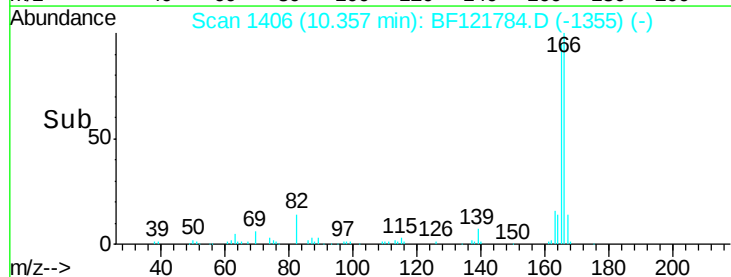
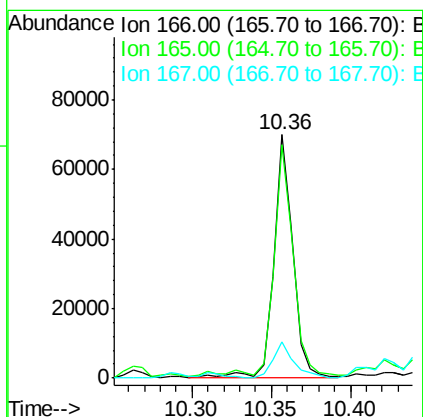
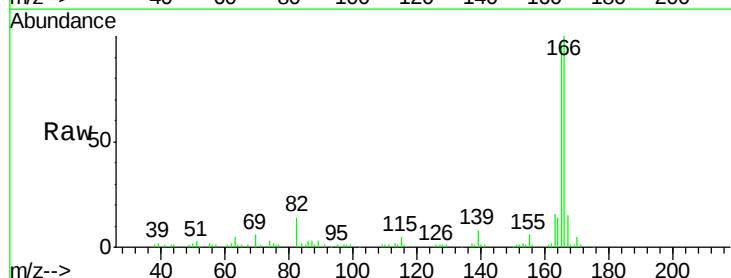
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

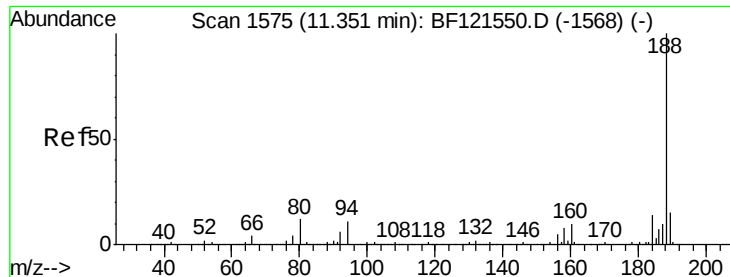
Tot Ion:168 Resp: 38065
Ion Ratio Lower Upper
168 100
139 37.9 31.0 46.6
169 17.4 11.3 16.9#



#58
Fluorene
Concen: 4.452 ng
RT: 10.36 min Scan# 1406
Delta R.T. -0.00 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion:166 Resp: 59282
Ion Ratio Lower Upper
166 100
165 95.9 79.1 118.7
167 14.7 11.0 16.6

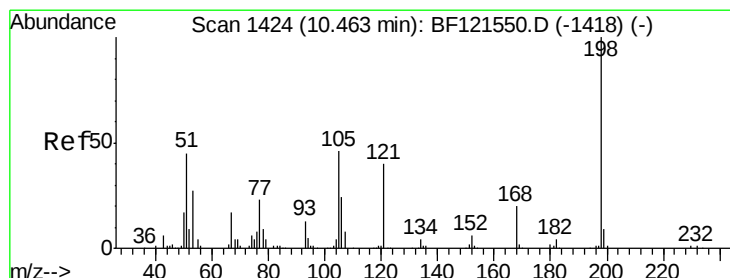
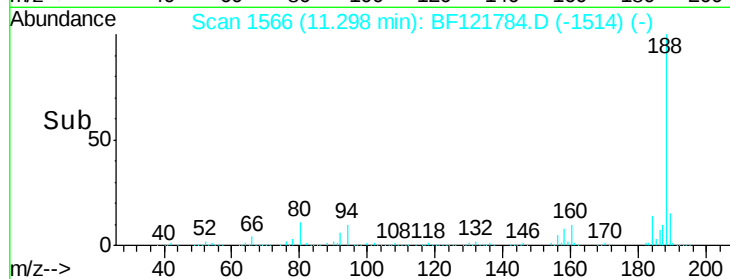
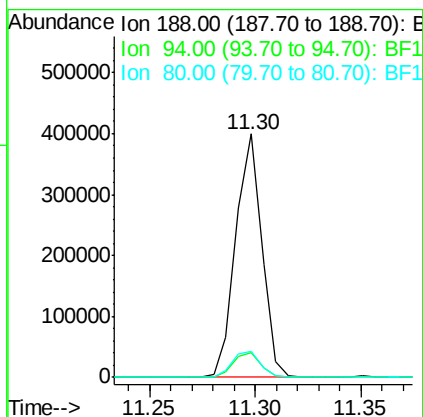
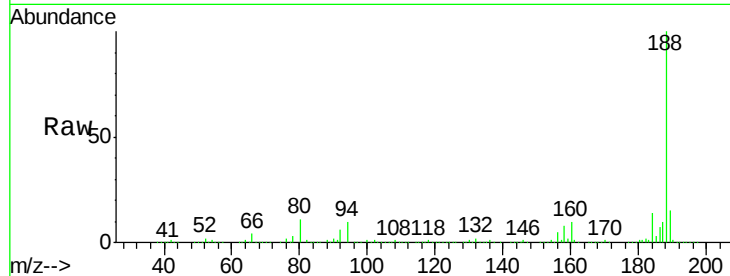




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.30 min Scan# 1566
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

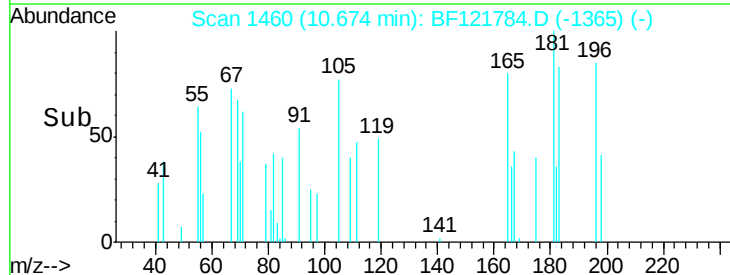
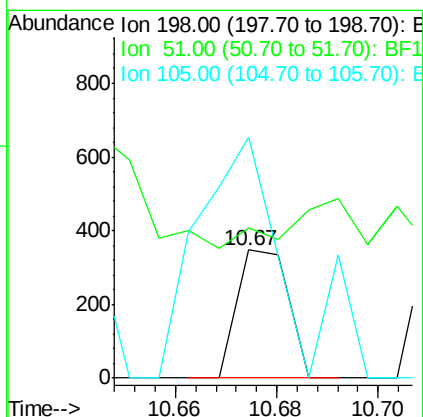
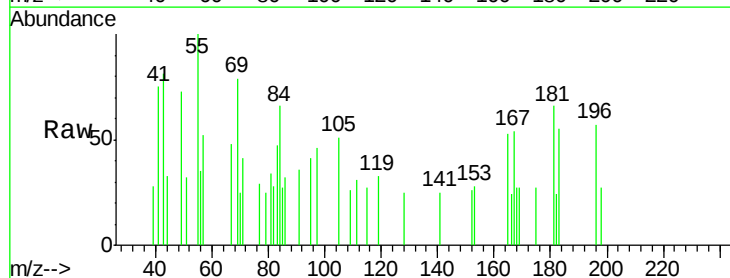
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

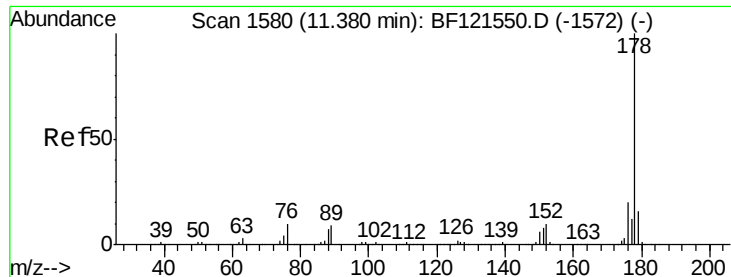
Tot Ion:188 Resp: 340660
Ion Ratio Lower Upper
188 100
94 10.4 8.3 12.5
80 10.7 9.1 13.7



#65
4,6-Dinitro-2-methylphenol
Concen: 6.951 ng
RT: 10.67 min Scan# 1460
Delta R.T. 0.26 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion:198 Resp: 241
Ion Ratio Lower Upper
198 100
51 117.6 29.6 69.6#
105 188.5 24.4 64.4#

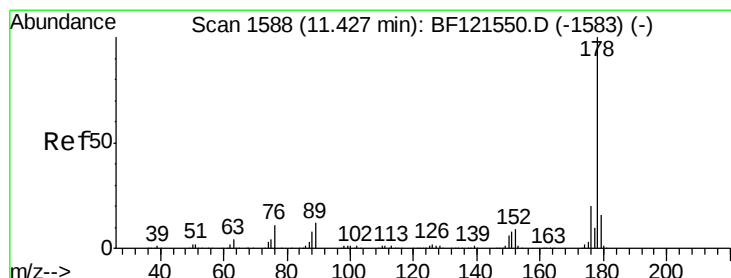
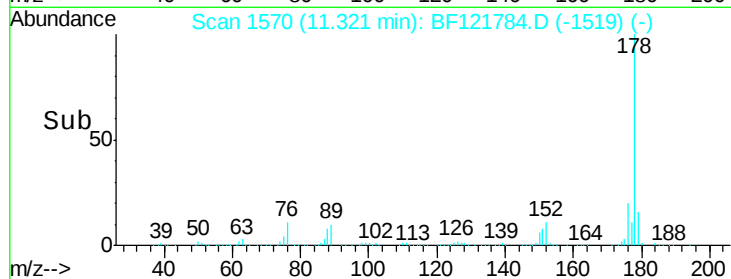
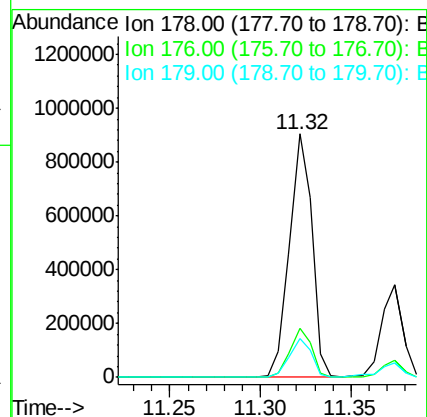
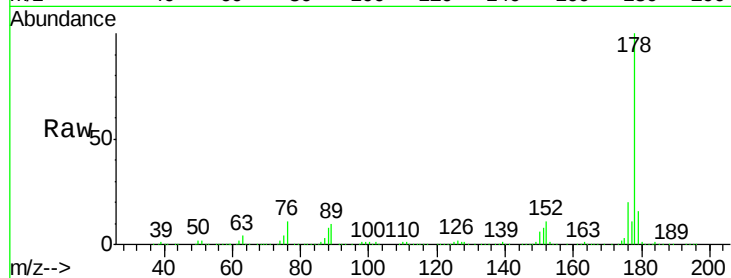




#71
Phenanthrene
Concen: 42.398 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.00 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

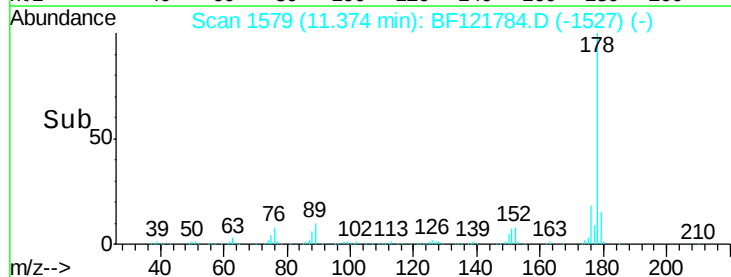
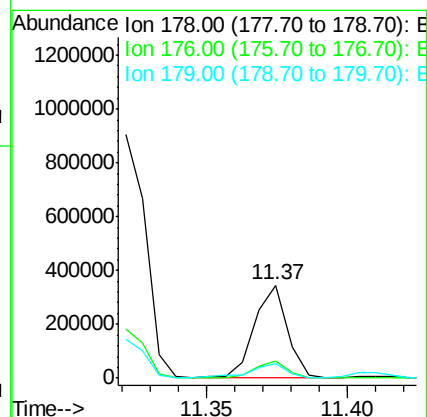
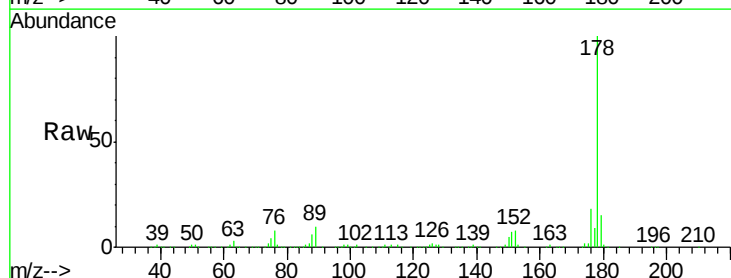
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

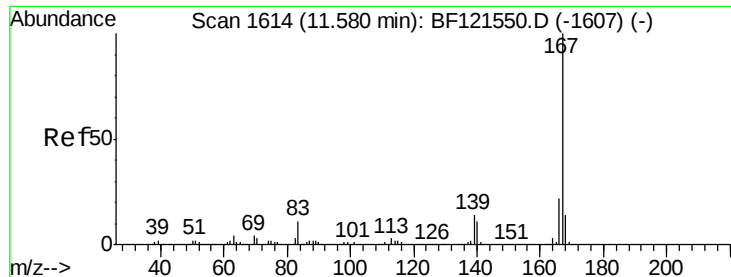
Tot Ion:178 Resp: 786922
Ion Ratio Lower Upper
178 100
176 20.1 15.9 23.9
179 15.8 12.2 18.4



#72
Anthracene
Concen: 14.352 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion:178 Resp: 274898
Ion Ratio Lower Upper
178 100
176 18.3 15.7 23.5
179 15.2 12.7 19.1

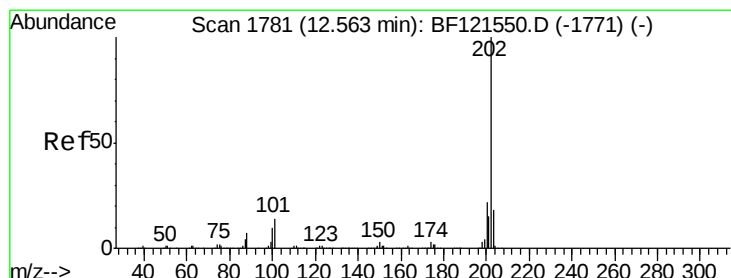
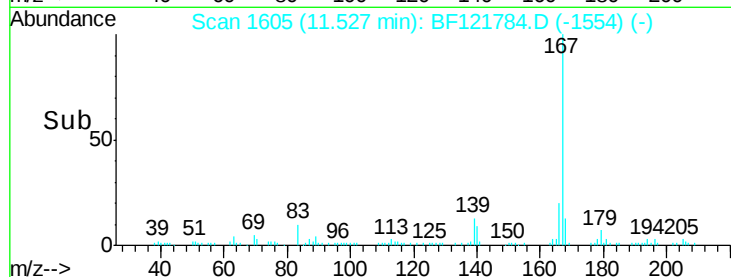
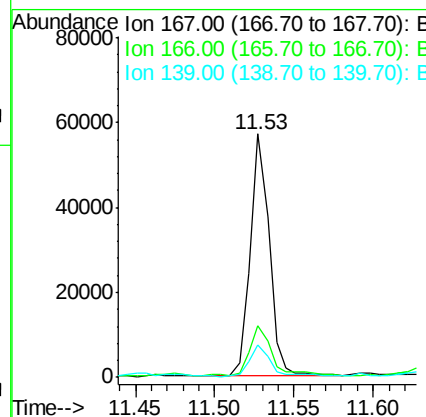
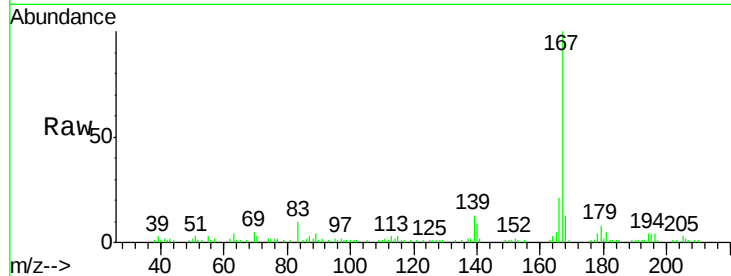




#73
 Carbazole
 Concen: 2.738 ng
 RT: 11.53 min Scan# 1605
 Delta R.T. -0.00 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

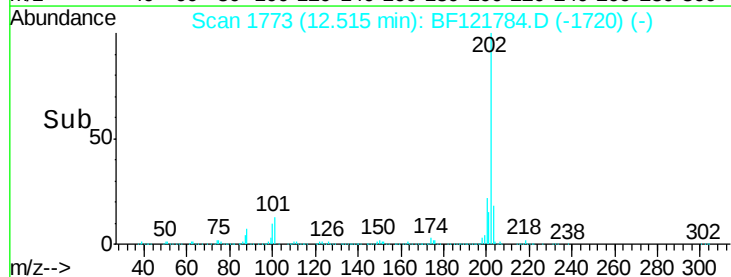
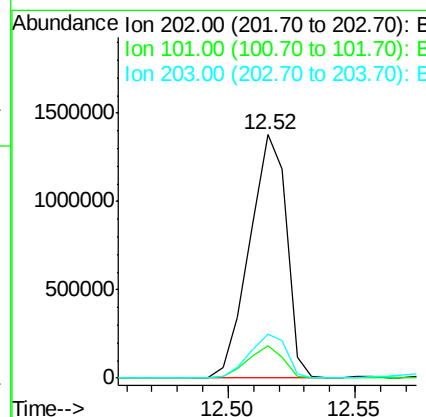
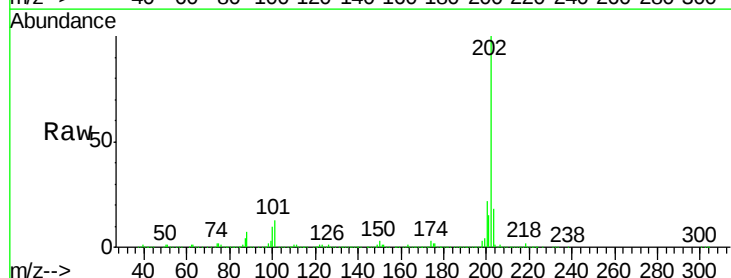
Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)DL

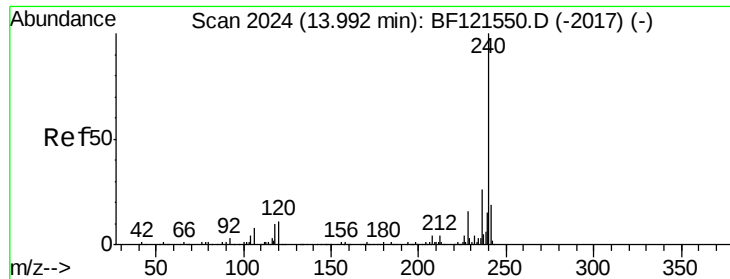
Tot Ion:167 Resp: 47324
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.8 26.6
 139 13.2 10.8 16.2



#75
 Fluoranthene
 Concen: 70.755 ng
 RT: 12.52 min Scan# 1773
 Delta R.T. 0.01 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

Tgt Ion:202 Resp: 1401884
 Ion Ratio Lower Upper
 202 100
 101 13.1 0.0 33.4
 203 18.2 0.0 37.9

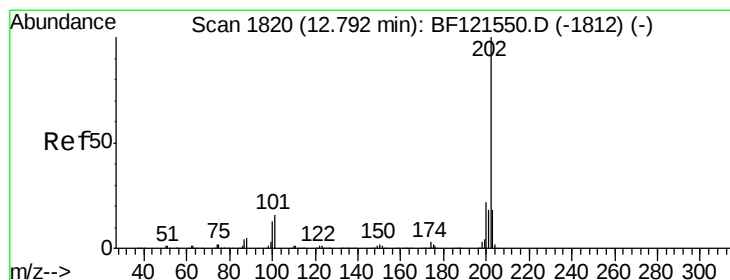
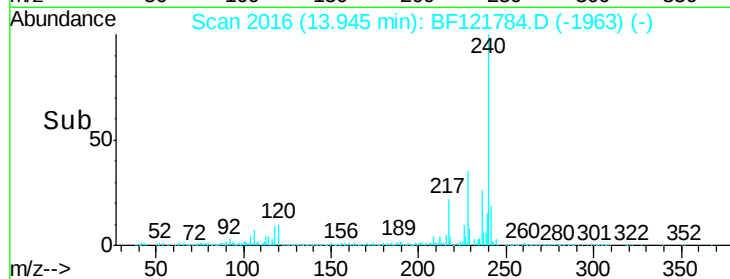
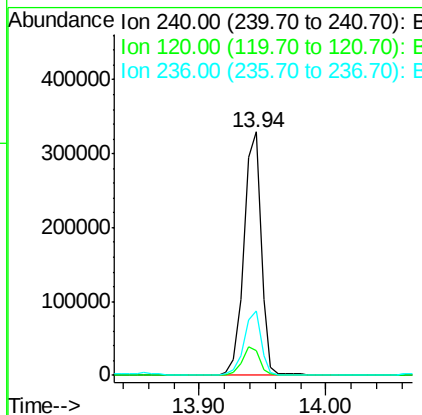
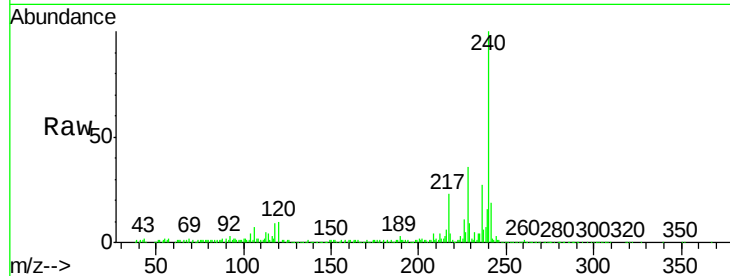




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

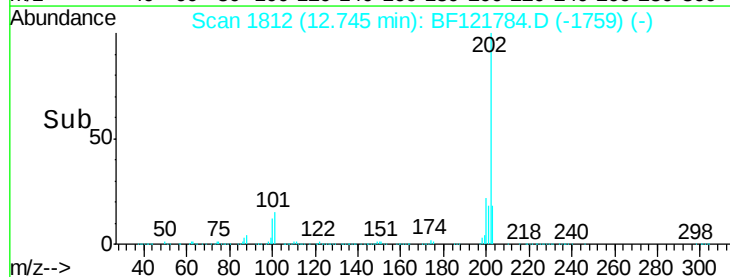
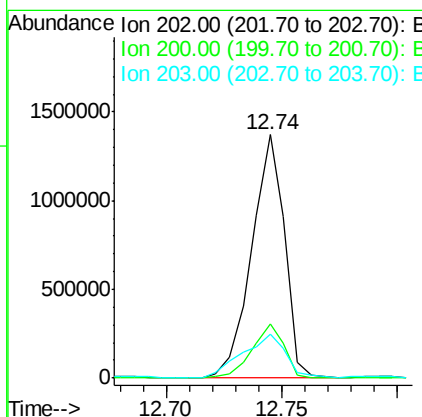
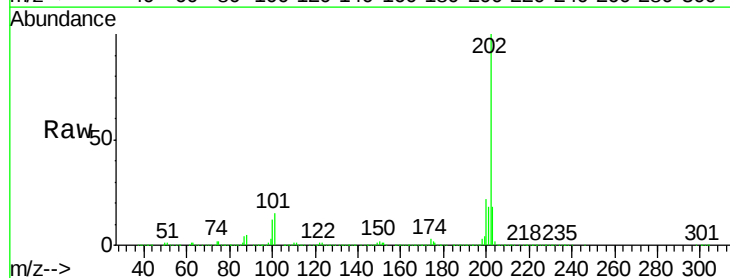
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

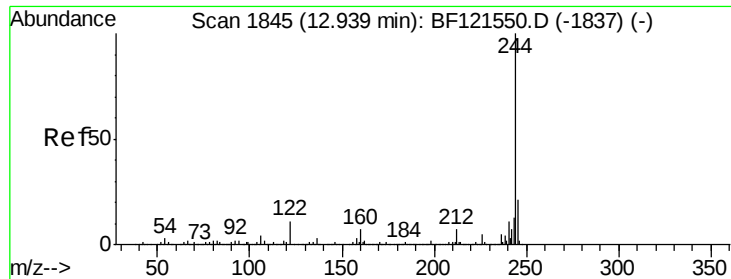
Tot Ion:240 Resp: 307342
Ion Ratio Lower Upper
240 100
120 10.3 9.2 13.8
236 26.6 20.9 31.3



#78
Pyrene
Concen: 60.618 ng
RT: 12.74 min Scan# 1812
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion:202 Resp: 1361195
Ion Ratio Lower Upper
202 100
200 22.1 17.4 26.2
203 18.2 14.6 21.8

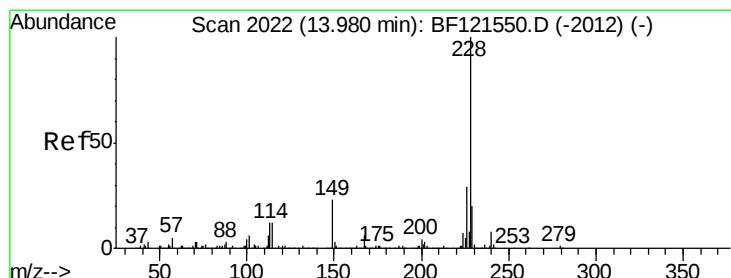
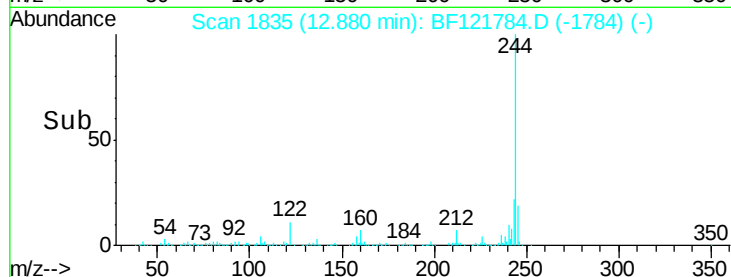
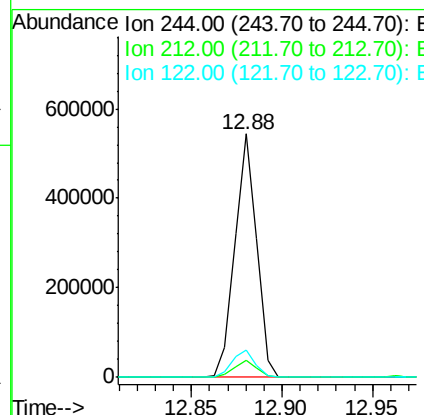
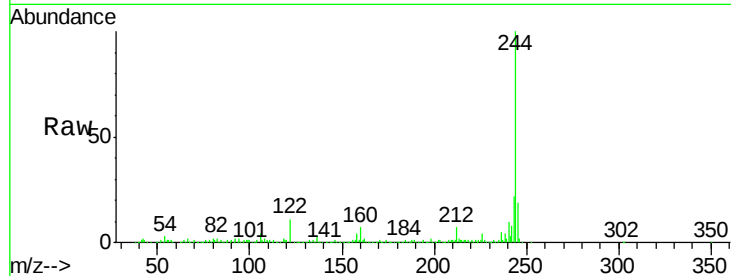




#79
 Terphenyl-d14
 Concen: 29.987 ng
 RT: 12.88 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

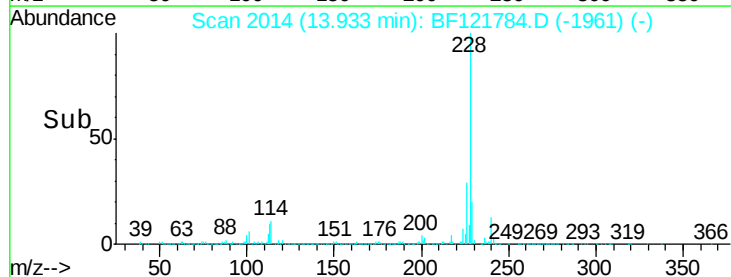
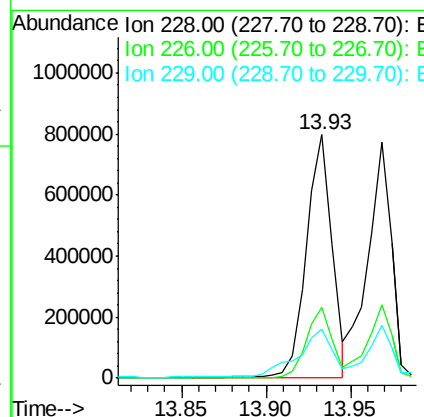
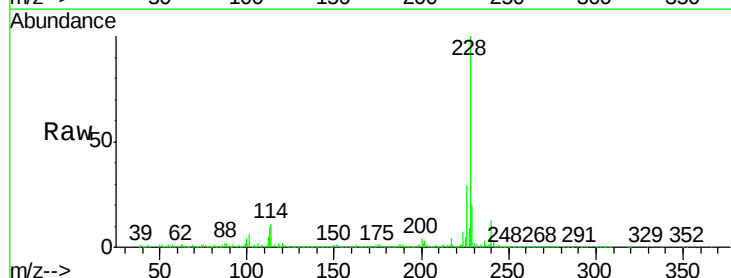
Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)DL

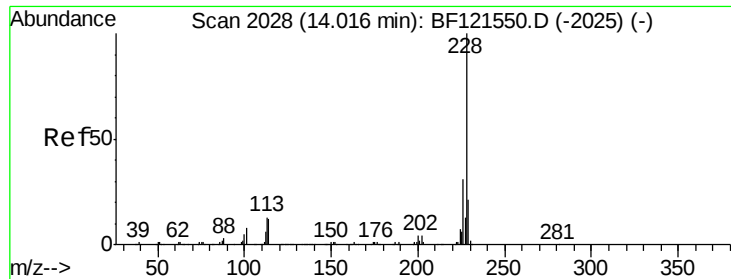
Tot Ion:244 Resp: 454917
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.2
 122 11.4 8.1 12.1



#81
 Benzo(a)anthracene
 Concen: 42.825 ng
 RT: 13.93 min Scan# 2014
 Delta R.T. 0.01 min
 Lab File: BF121784.D
 Acq: 1 Oct 2020 23:52

Tgt Ion:228 Resp: 832682
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.3 33.5
 229 20.3 16.2 24.4

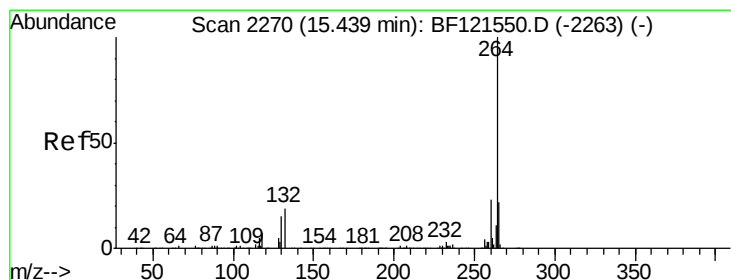
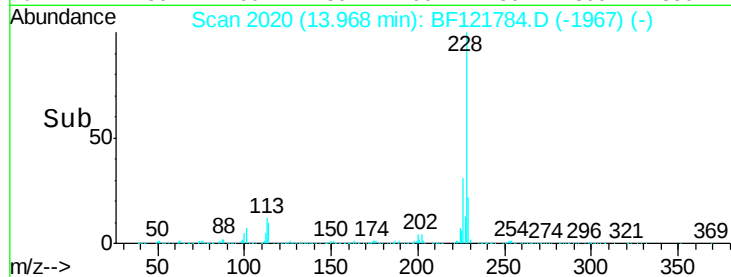
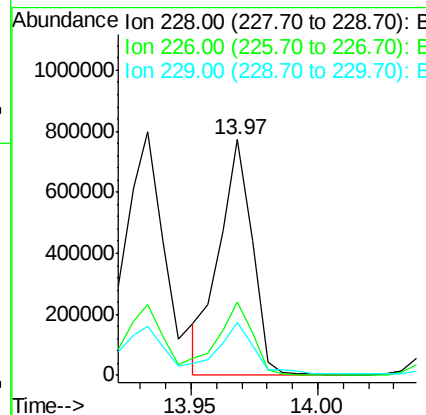
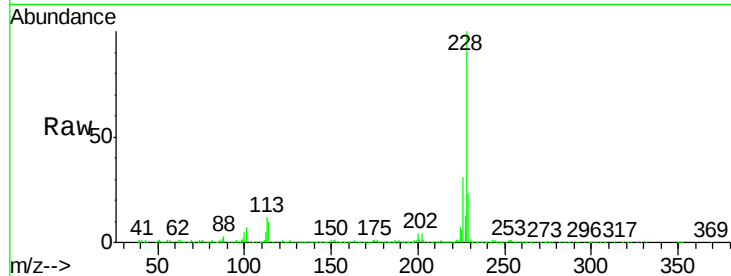




#83
Chrysene
Concen: 35.293 ng
RT: 13.97 min Scan# 2020
Delta R.T. 0.01 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

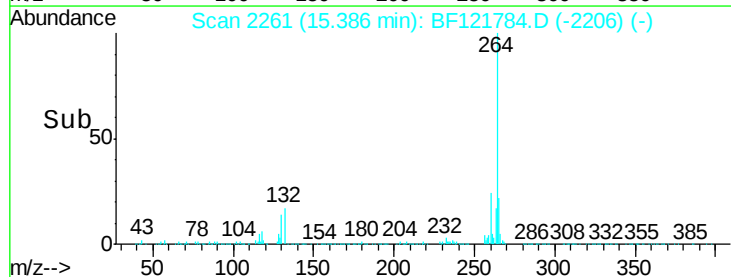
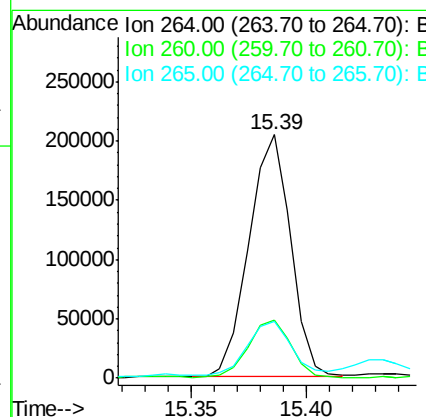
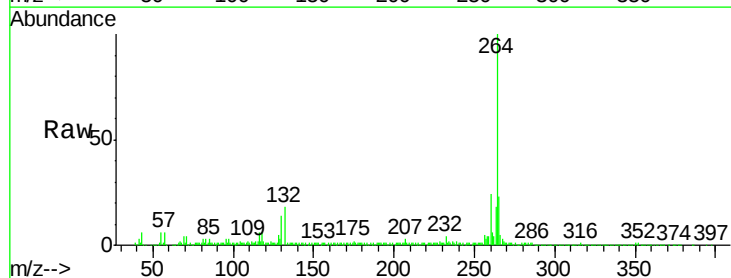
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

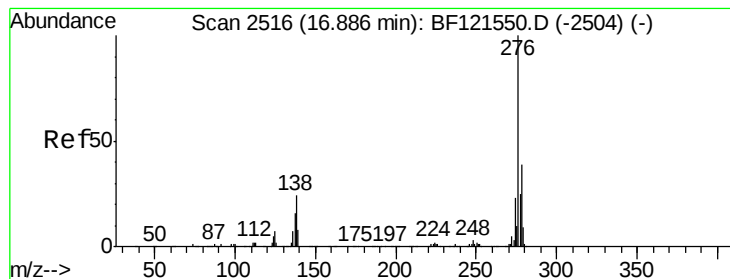
Tot Ion:228 Resp: 694905
Ion Ratio Lower Upper
228 100
226 31.0 24.6 37.0
229 22.7 15.9 23.9



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.39 min Scan# 2261
Delta R.T. 0.02 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion:264 Resp: 257900
Ion Ratio Lower Upper
264 100
260 24.0 18.7 28.1
265 23.1 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 17.638 ng

RT: 16.81 min Scan# 2503

Delta R.T. 0.02 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

Instrument :

BNA_F

ClientSampleId :

B-14(11-13)DL

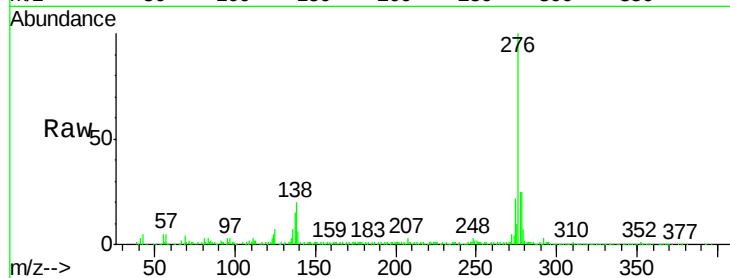
Tot Ion:276 Resp: 296240

Ion Ratio Lower Upper

276 100

138 21.0 19.9 29.9

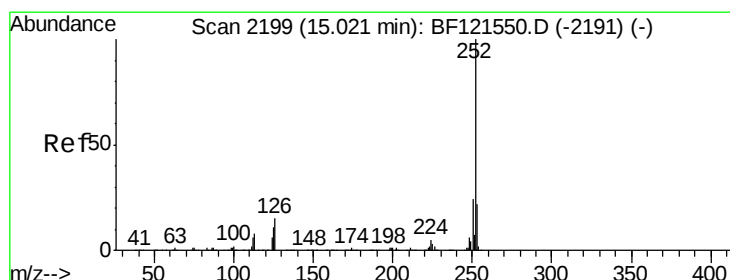
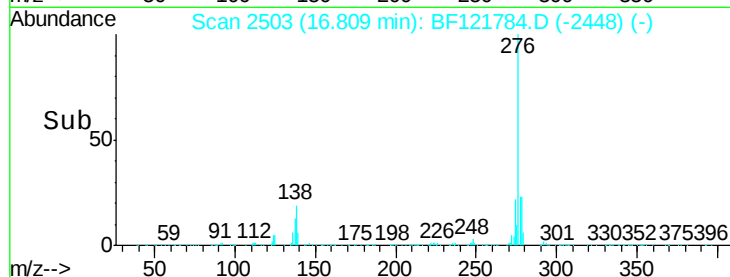
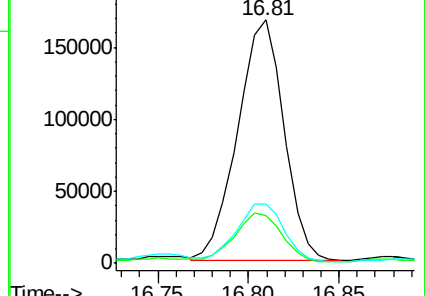
277 24.7 20.4 30.6



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



#88

Benzo(b)fluoranthene

Concen: 61.436 ng

RT: 14.97 min Scan# 2191

Delta R.T. 0.02 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

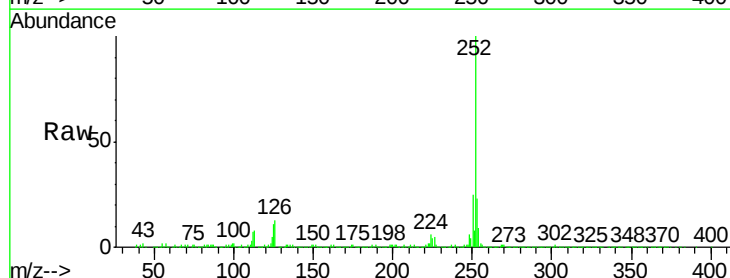
Tgt Ion:252 Resp: 1059208

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.2

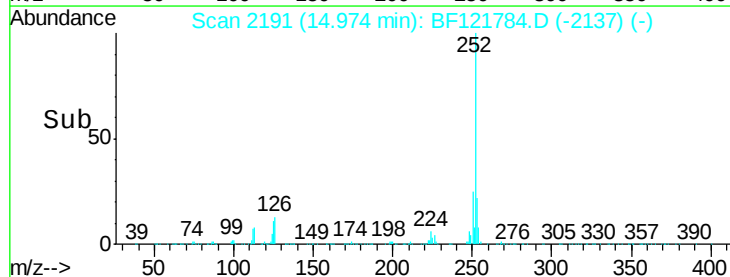
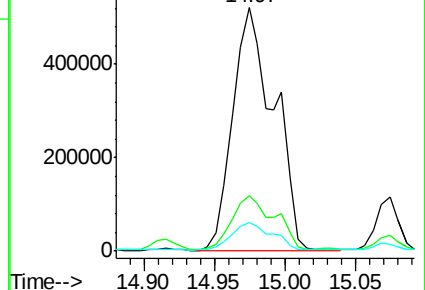
125 11.5 8.0 12.0

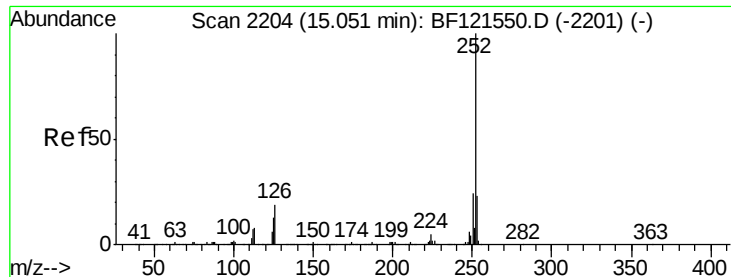


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 67.089 ng

RT: 14.97 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

Instrument :

BNA_F

ClientSampleId :

B-14(11-13)DL

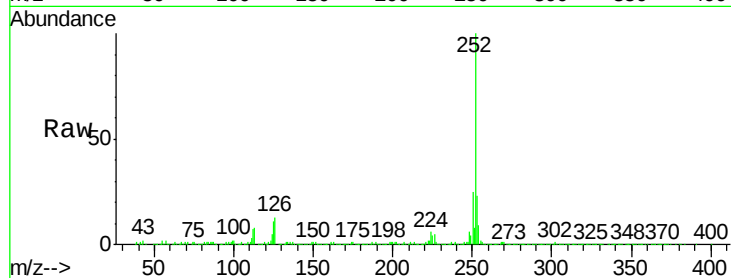
Tot Ion:252 Resp: 1059208

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

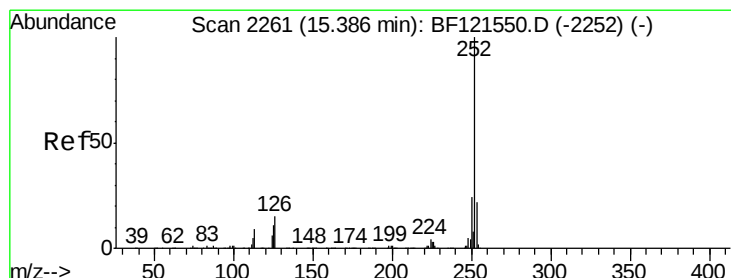
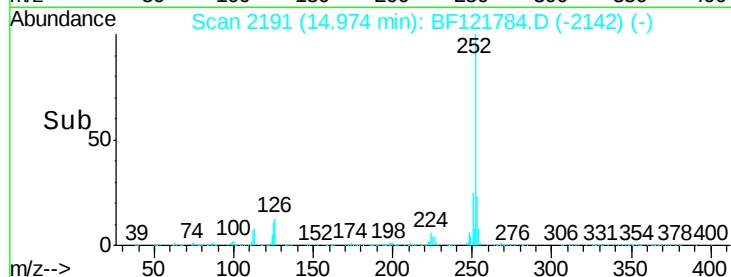
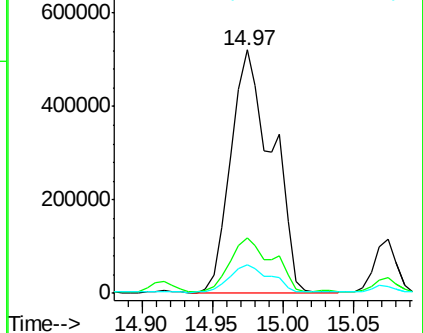
125 11.5 7.7 11.5



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



#90

Benzo(a)pyrene

Concen: 38.040 ng

RT: 15.33 min Scan# 2251

Delta R.T. 0.02 min

Lab File: BF121784.D

Acq: 1 Oct 2020 23:52

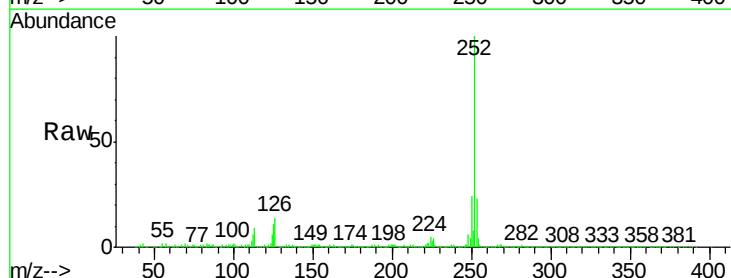
Tgt Ion:252 Resp: 557496

Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

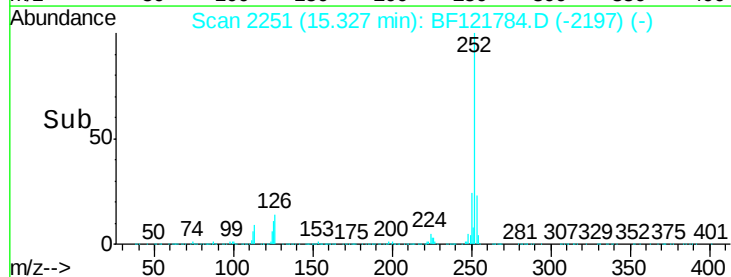
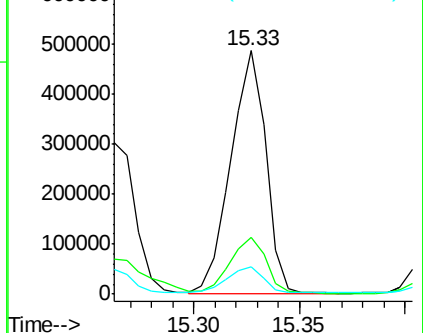
125 11.4 8.6 13.0

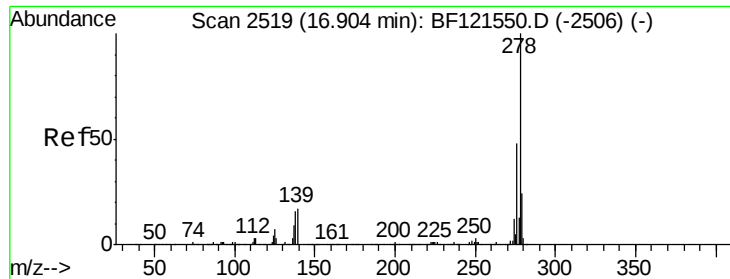


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

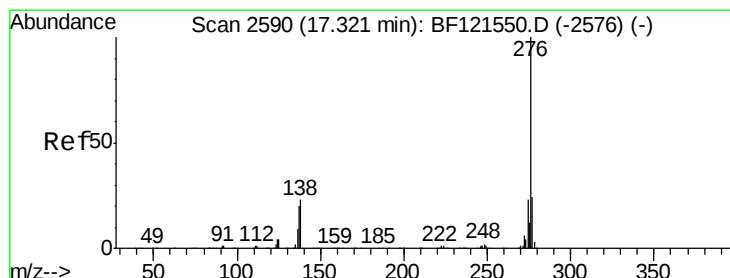
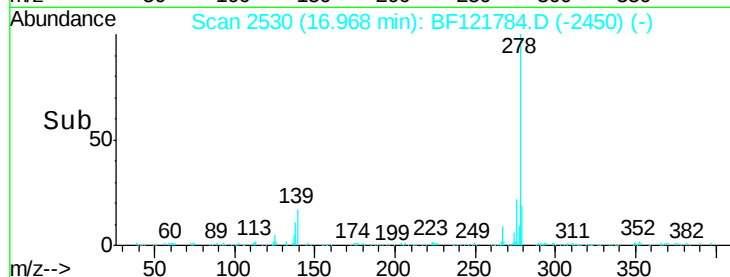
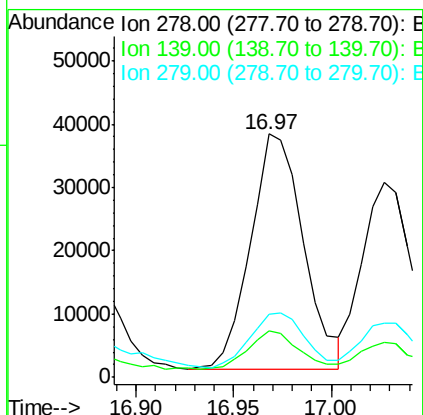
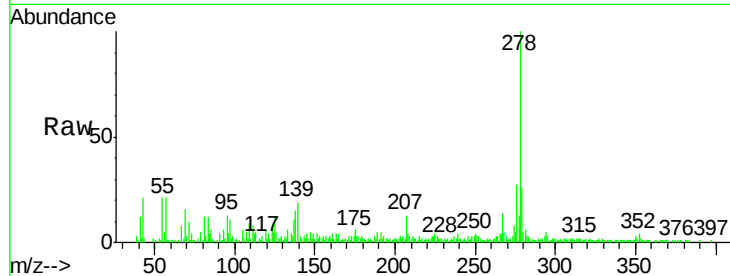




#91
Dibenzo(a,h)anthracene
Concen: 4.996 ng
RT: 16.97 min Scan# 2530
Delta R.T. 0.17 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.8	13.0	19.4
279	25.7	19.0	28.4



#92
Benzo(g,h,i)perylene
Concen: 19.623 ng
RT: 17.24 min Scan# 2576
Delta R.T. 0.03 min
Lab File: BF121784.D
Acq: 1 Oct 2020 23:52

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.4	29.2
138	21.5	17.8	26.6

