

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082520\
 Data File : BF121435.D
 Acq On : 25 Aug 2020 19:10
 Operator : JU/CG
 Sample : L3772-02DL 4X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 349-346DL

Quant Time: Aug 26 00:42:40 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF081920.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 20 04:56:10 2020
 Response via : Initial Calibration

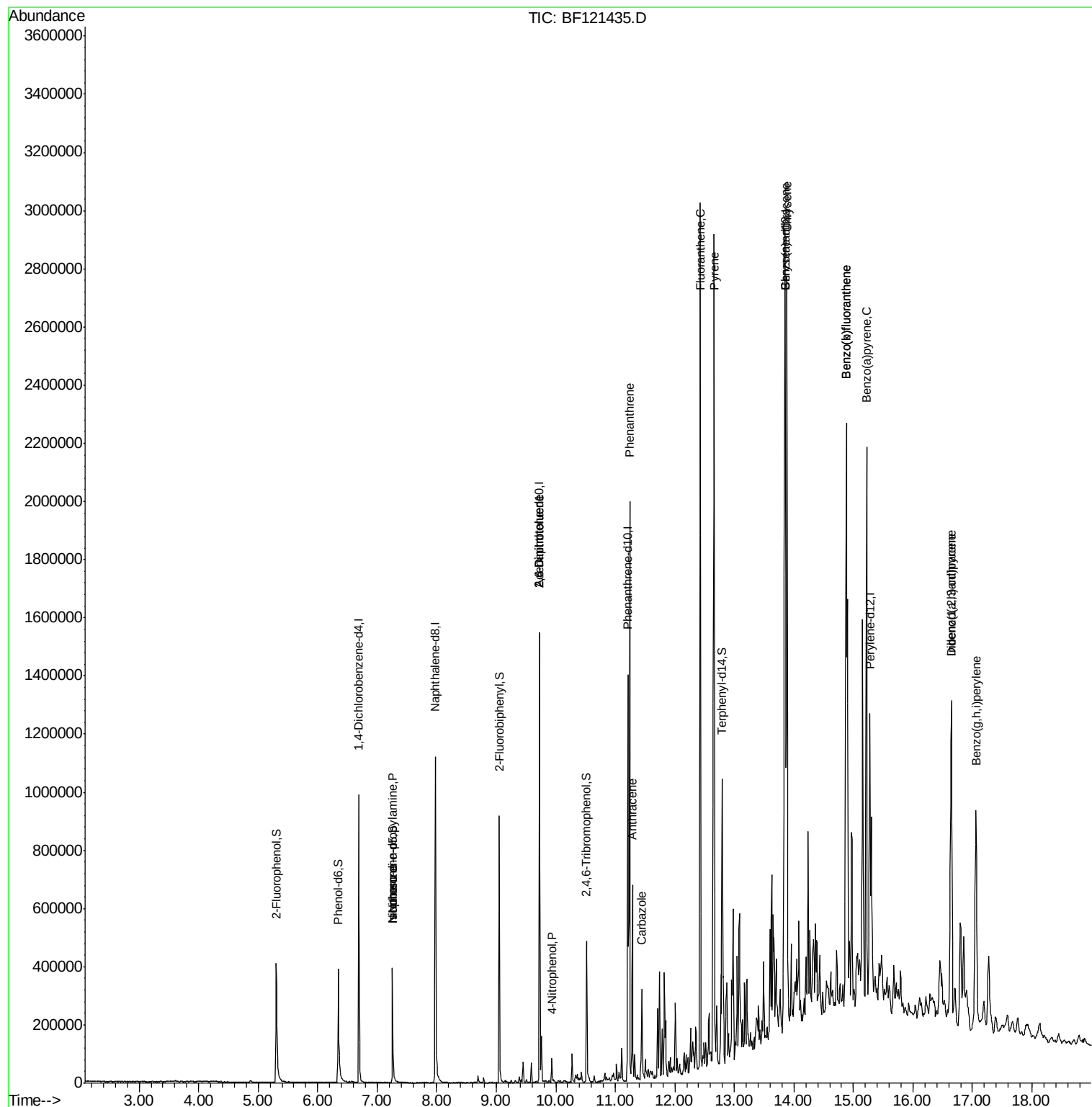
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	143471	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	572226	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	297352	20.00	ng	0.00
64) Phenanthrene-d10	11.22	188	572333	20.00	ng	0.00
76) Chrysene-d12	13.86	240	414348	20.00	ng	0.01
86) Perylene-d12	15.27	264	425922	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	173729	19.86	ng	0.00
7) Phenol-d6	6.35	99	218133	19.53	ng	0.00
23) Nitrobenzene-d5	7.26	82	137692	13.61	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	66900	19.31	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	289641	6.81	ng	0.00
79) Terphenyl-d14	12.79	244	316944	14.95	ng	0.00
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.26	70	17249	2.871	ng	# 82
25) Isophorone	7.26	82	137690	7.478	ng	# 65
51) 2,6-Dinitrotoluene	9.73	165	38761	8.390	ng	# 29
55) Dibenzofuran	9.93	168	34105	Below Cal		97
56) 4-Nitrophenol	9.93	139	12247	3.436	ng	# 8
57) 2,4-Dinitrotoluene	9.73	165	38761	6.877	ng	# 25
58) Fluorene	10.27	166	27298	Below Cal		100
71) Phenanthrene	11.24	178	717794	24.232	ng	99
72) Anthracene	11.29	178	245717	8.614	ng	98
73) Carbazole	11.45	167	121983	4.481	ng	99
75) Fluoranthene	12.43	202	1410638	43.875	ng	99
78) Pyrene	12.66	202	1422368	45.699	ng	99
81) Benzo(a)anthracene	13.84	228	1114204	43.294	ng	95
83) Chrysene	13.89	228	992424	37.705	ng	96
87) Indeno(1,2,3-cd)pyrene	16.64	276	695416	26.747	ng	96
88) Benzo(b)fluoranthene	14.88	252	1732306	62.956	ng	98
89) Benzo(k)fluoranthene	14.88	252	1732306	71.519	ng	98
90) Benzo(a)pyrene	15.22	252	977454	41.112	ng	98
91) Dibenzo(a,h)anthracene	16.64	278	217044	10.182	ng	93
92) Benzo(a,h,i)perylene	17.06	276	611464	29.341	ng	98

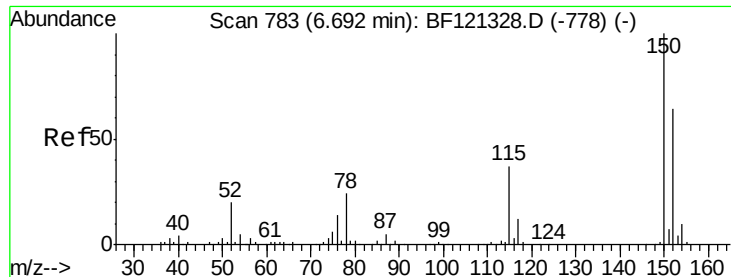
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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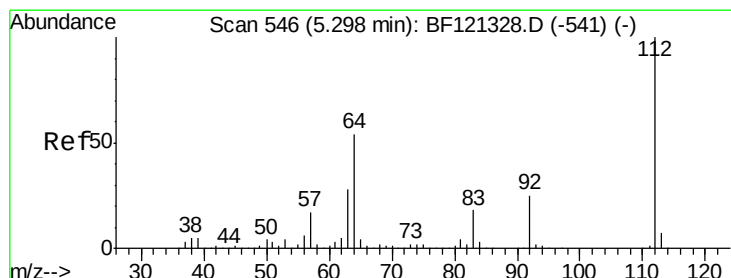
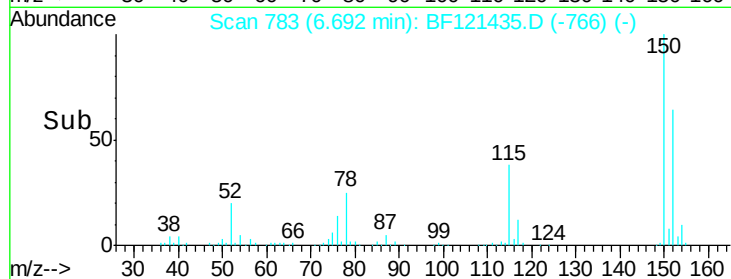
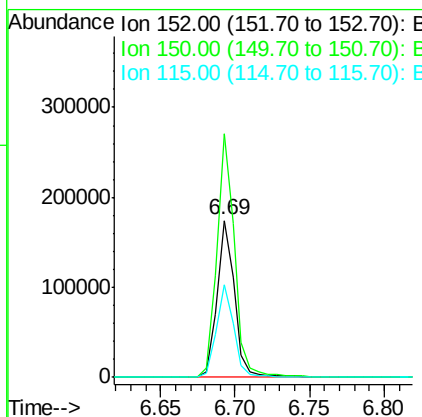
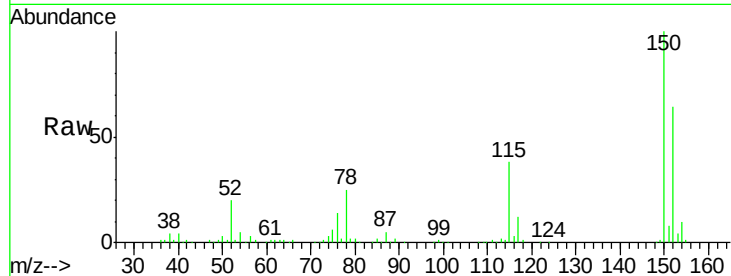


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 783
 Delta R.T. 0.00 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

Instrument :
 BNA_F
 ClientSampleId :
 349-346DL

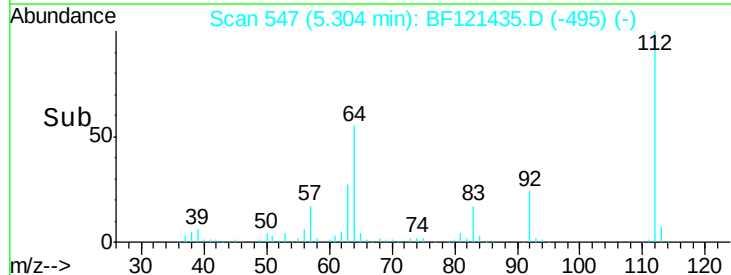
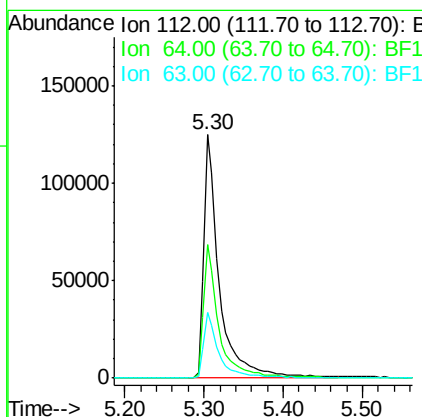
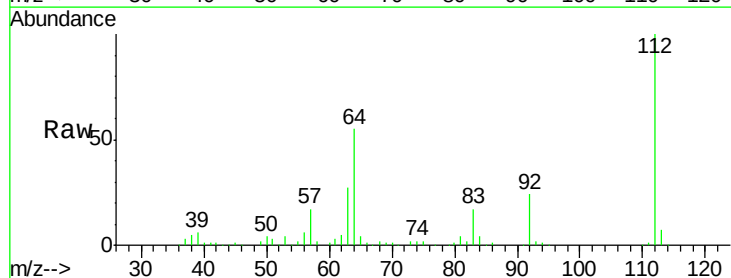
Tot Ion:152 Resp: 143471
 Ion Ratio Lower Upper
 152 100
 150 155.3 124.8 187.2
 115 59.0 46.1 69.1

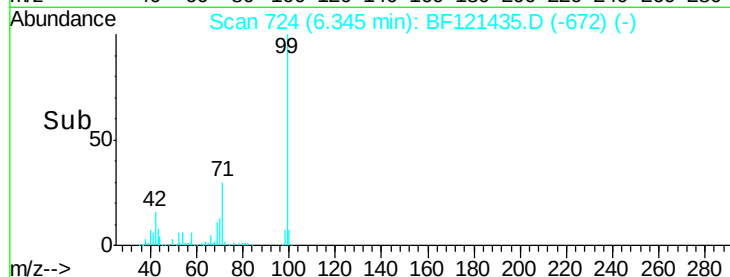
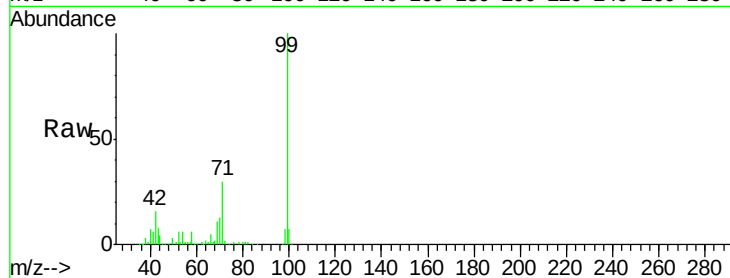
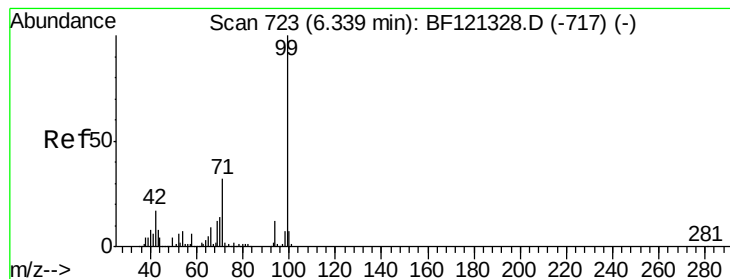


#5

2-Fluorophenol
 Concen: 19.856 ng
 RT: 5.30 min Scan# 547
 Delta R.T. 0.01 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

Tgt Ion:112 Resp: 173729
 Ion Ratio Lower Upper
 112 100
 64 55.0 43.5 65.3
 63 26.8 22.0 33.0





#7

Phenol-d6

Concen: 19.529 ng

RT: 6.35 min Scan# 724

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

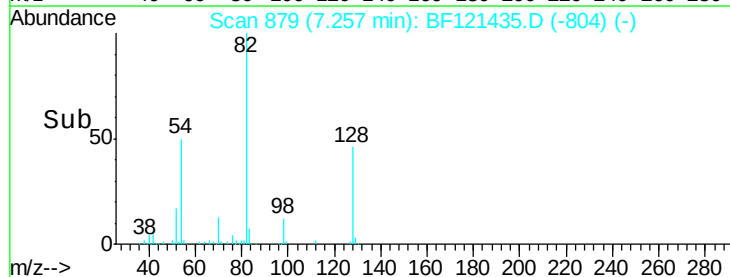
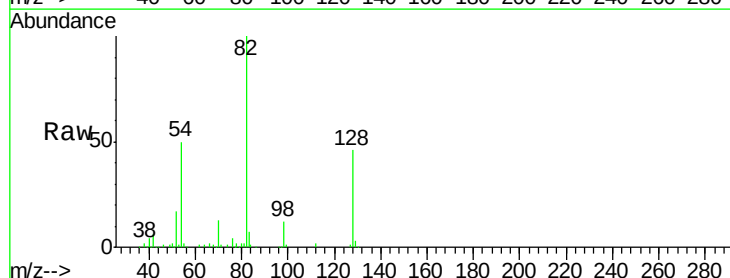
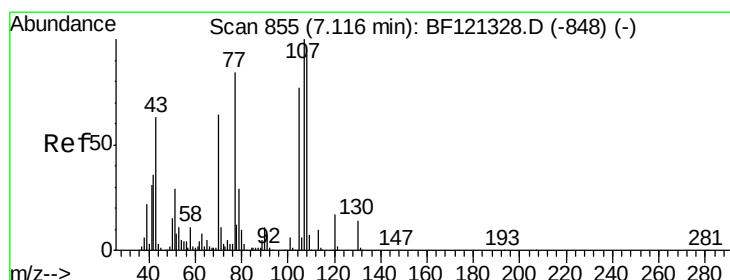
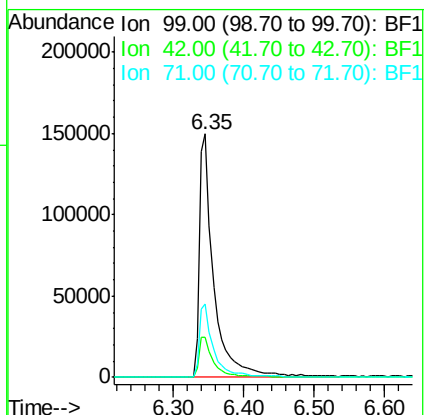
Tot Ion: 99 Resp: 218133

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

71 30.0 25.2 37.8



#19

n-Nitroso-di-n-propylamine

Concen: 2.871 ng

RT: 7.26 min Scan# 879

Delta R.T. 0.14 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Tgt Ion: 70 Resp: 17249

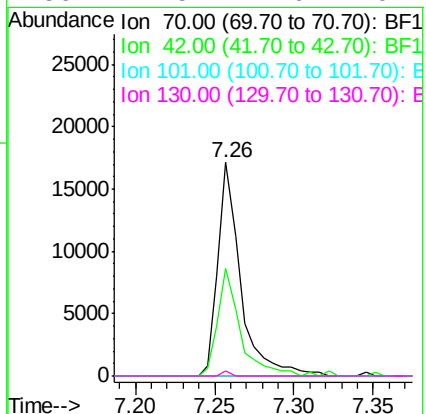
Ion Ratio Lower Upper

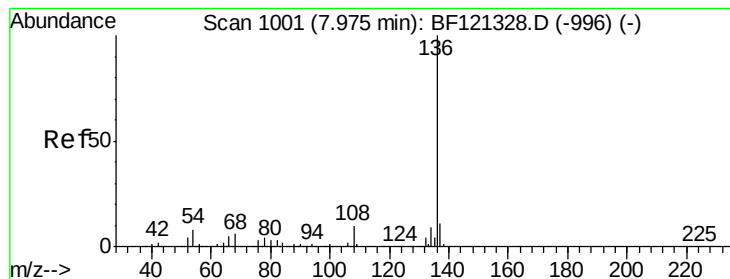
70 100

42 50.5 45.2 67.8

101 0.0 7.7 11.5#

130 2.5 17.6 26.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.98 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleID :

349-346DL

Tot Ion:136 Resp: 572226

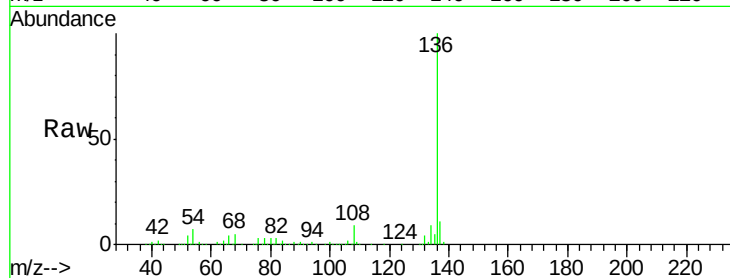
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 6.9 6.1 9.1

68 5.4 5.0 7.4

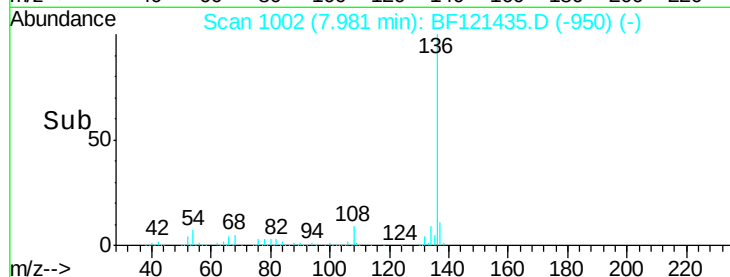


Abundance Ion 136.00 (135.70 to 136.70): E

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



Abundance

800000

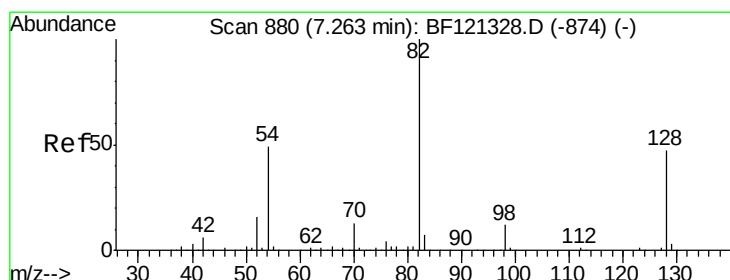
600000

400000

200000

0

Time-->



#23

Nitrobenzene-d5

Concen: 13.609 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

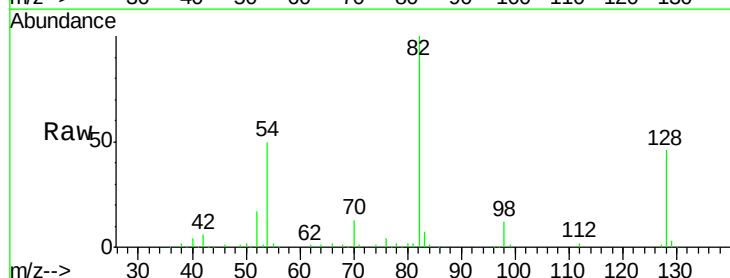
Tgt Ion: 82 Resp: 137692

Ion Ratio Lower Upper

82 100

128 46.0 37.9 56.9

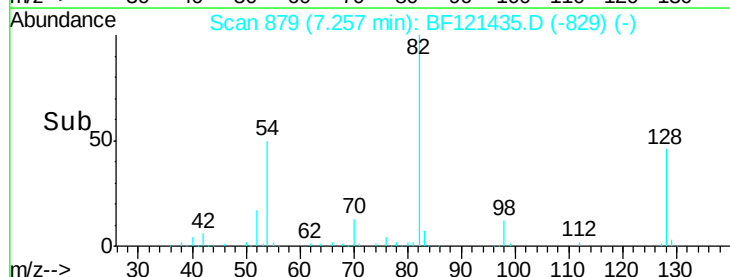
54 49.8 39.0 58.4



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



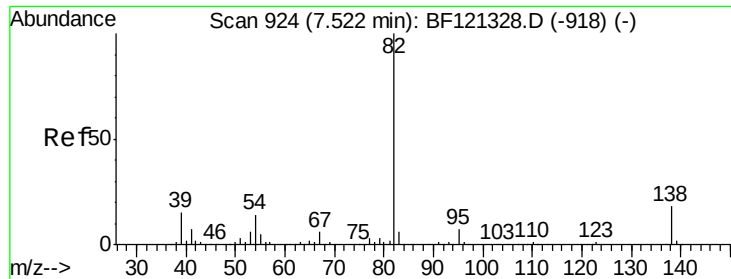
150000

100000

50000

0

Time-->



#25

Isophorone

Concen: 7.478 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.26 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

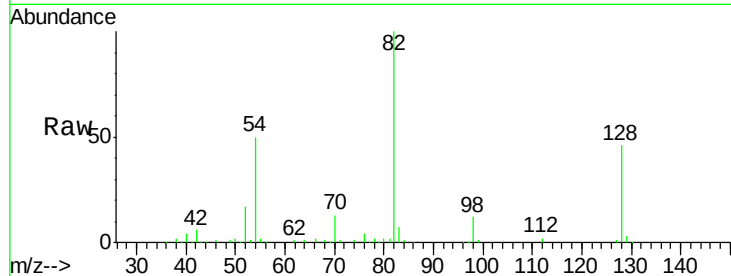
Tot Ion: 82 Resp: 137690

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

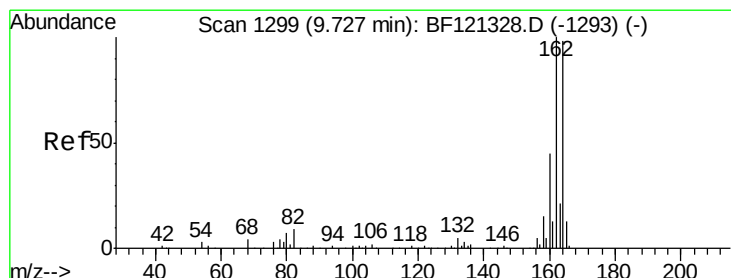
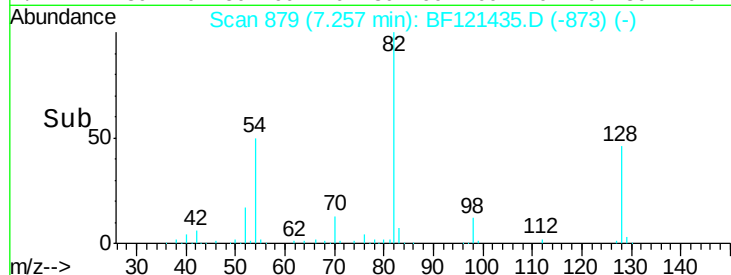
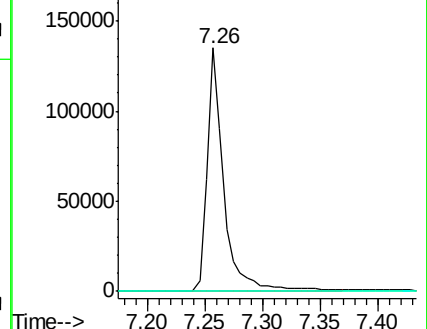
138 0.0 14.6 21.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.73 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

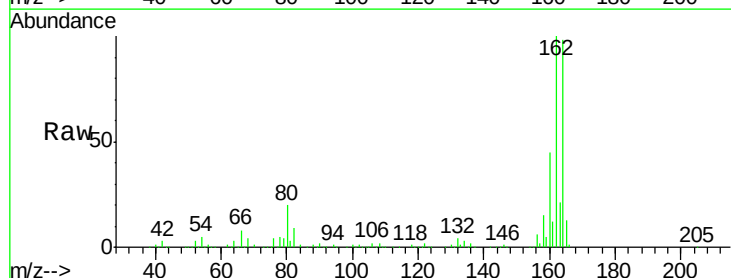
Tgt Ion:164 Resp: 297352

Ion Ratio Lower Upper

164 100

162 101.7 81.7 122.5

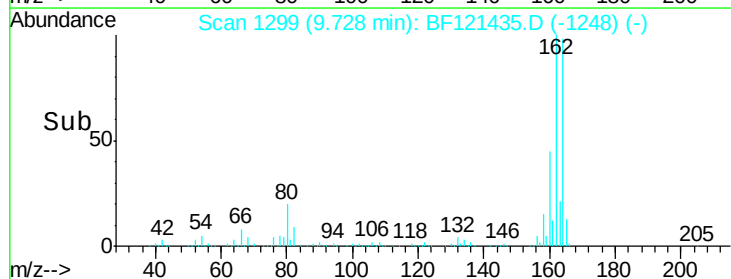
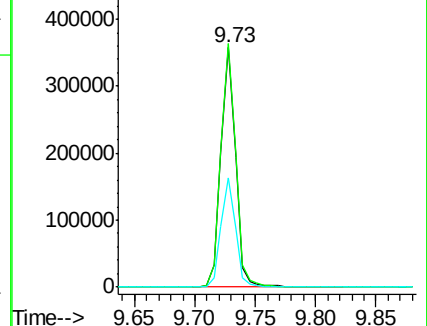
160 45.8 37.0 55.4

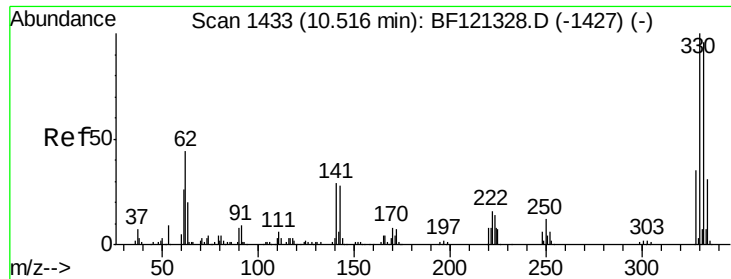


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

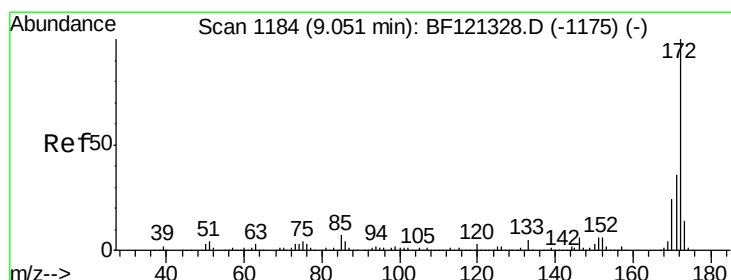
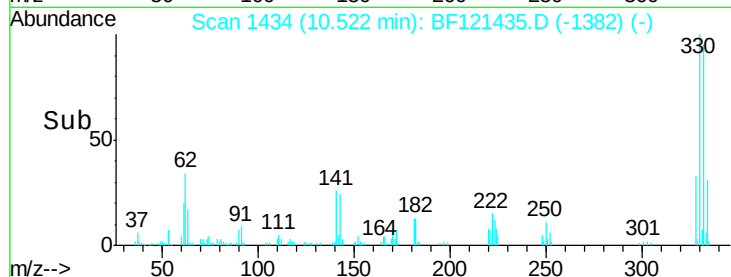
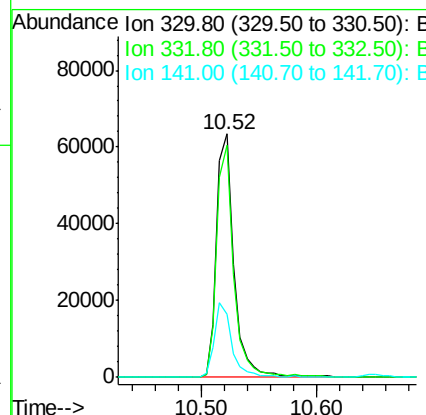
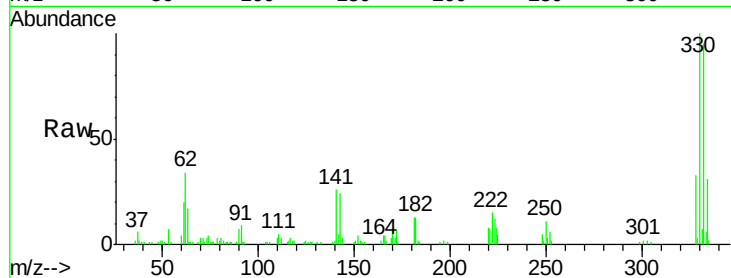




#42
 2,4,6-Tribromophenol
 Concen: 19.307 ng
 RT: 10.52 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

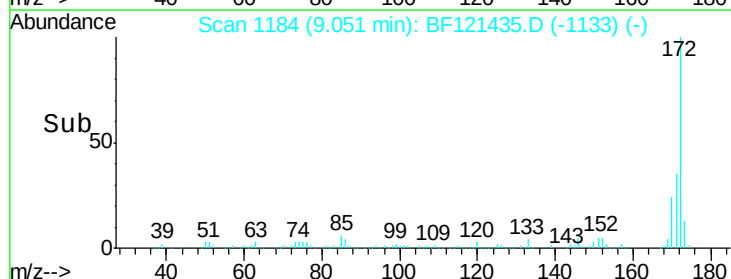
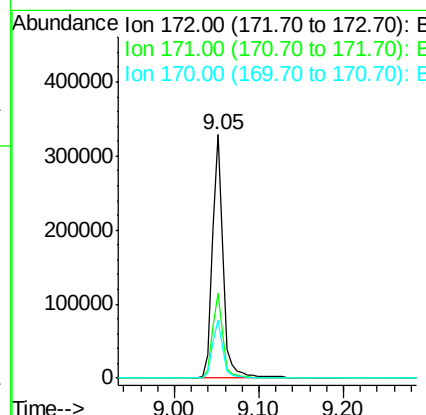
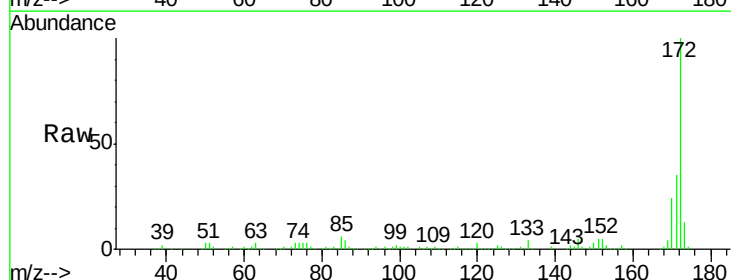
Instrument :
 BNA_F
 ClientSampleId :
 349-346DL

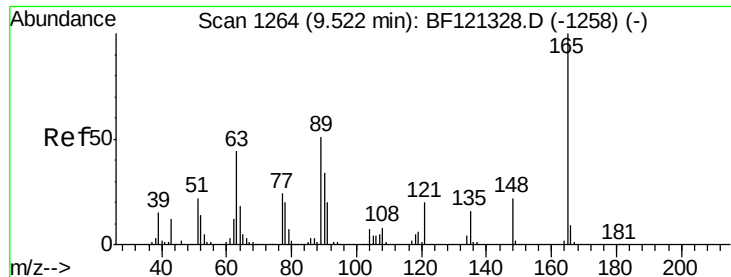
Tot Ion	Ratio	Lower	Upper
330	100		
332	93.4	76.9	115.3
141	30.3	22.8	34.2



#45
 2-Fluorobiphenyl
 Concen: 6.807 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.0	43.6
170	23.7	19.4	29.2





#51

2,6-Dinitrotoluene

Concen: 8.390 ng

RT: 9.73 min Scan# 1299

Delta R.T. 0.21 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

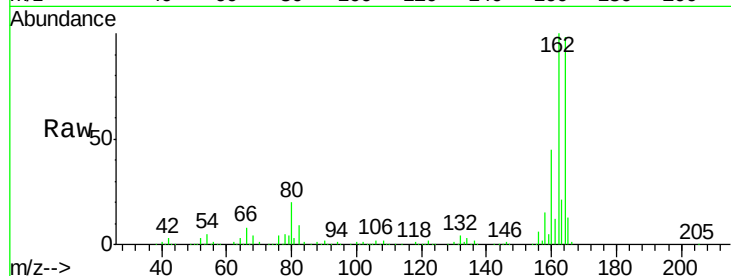
Tot Ion:165 Resp: 38761

Ion Ratio Lower Upper

165 100

63 1.0 38.5 57.7#

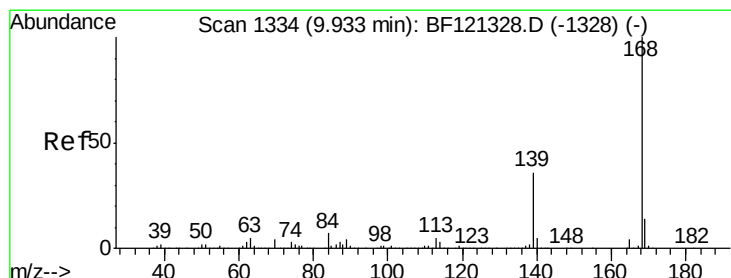
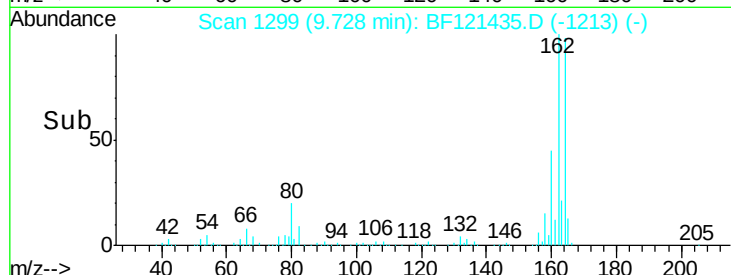
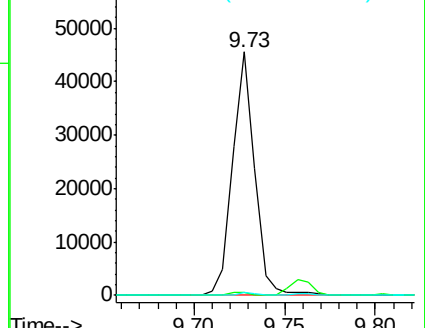
89 1.3 41.2 61.8#



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



#55

Dibenzofuran

Concen: Below Cal

RT: 9.93 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

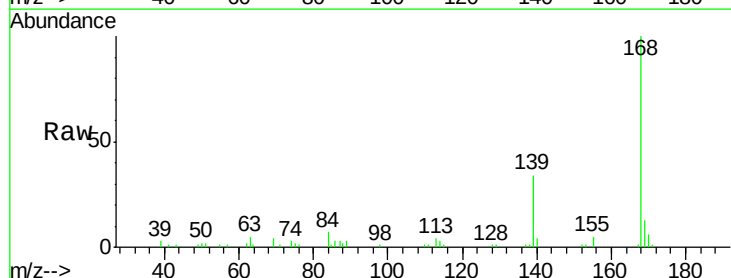
Tgt Ion:168 Resp: 34105

Ion Ratio Lower Upper

168 100

139 34.1 29.1 43.7

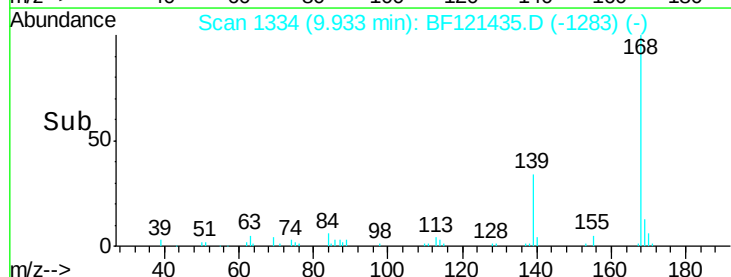
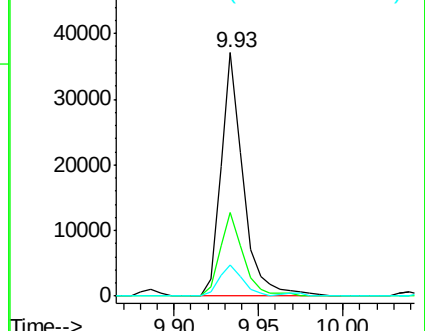
169 13.0 11.0 16.6

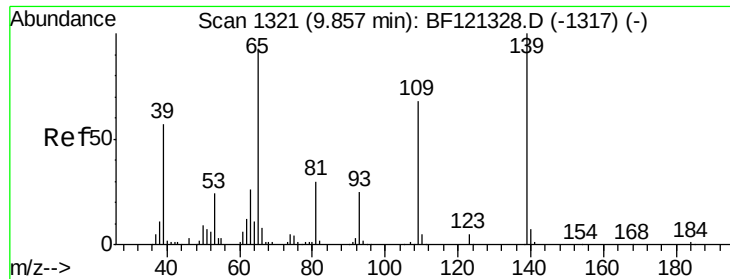


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

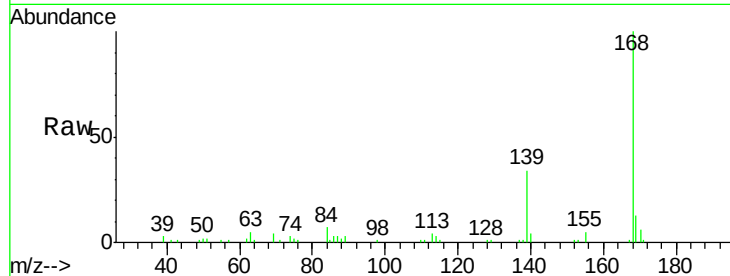




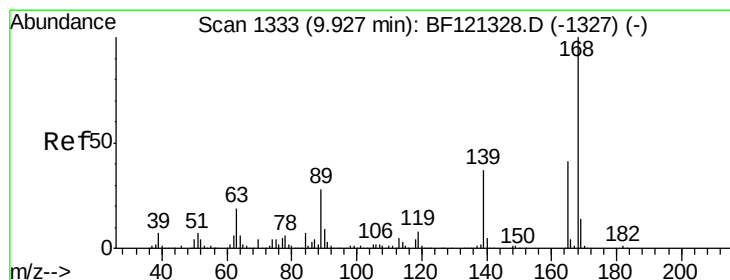
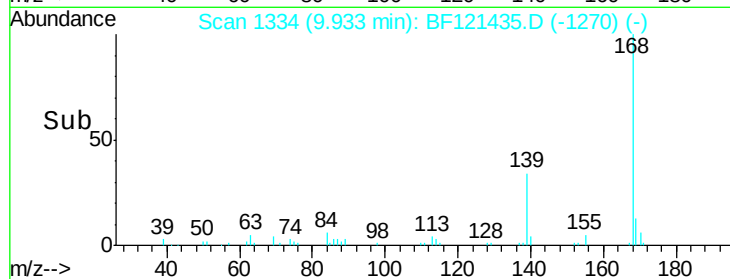
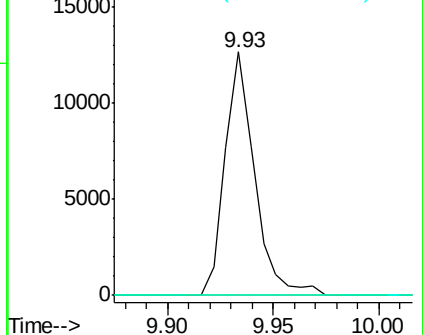
#56
4-Nitrophenol
Concen: 3.436 ng
RT: 9.93 min Scan# 1334
Delta R.T. 0.08 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

Instrument :
BNA_F
ClientSampleId :
349-346DL

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	47.7	87.7#
65	0.0	73.2	113.2#



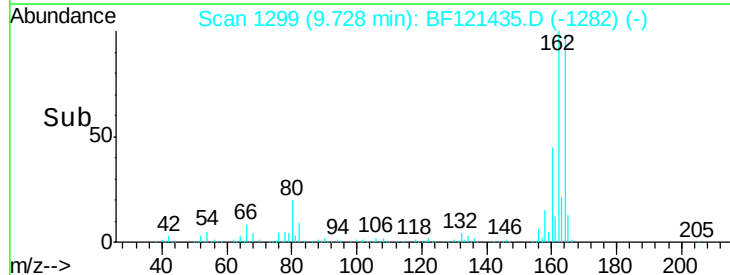
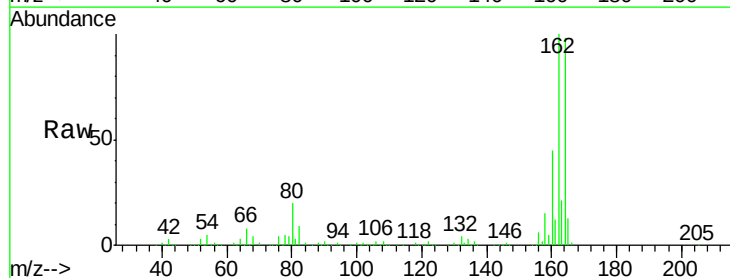
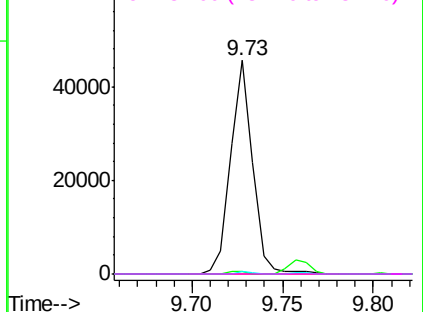
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF1

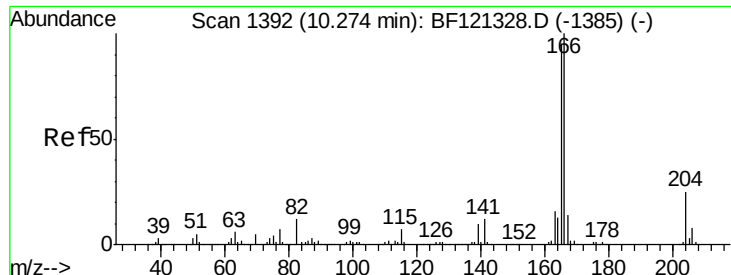


#57
2,4-Dinitrotoluene
Concen: 6.877 ng
RT: 9.73 min Scan# 1299
Delta R.T. -0.20 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	37.5	56.3#
89	1.3	54.2	81.4#
182	0.0	2.2	3.4#

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
Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: Below Cal

RT: 10.27 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

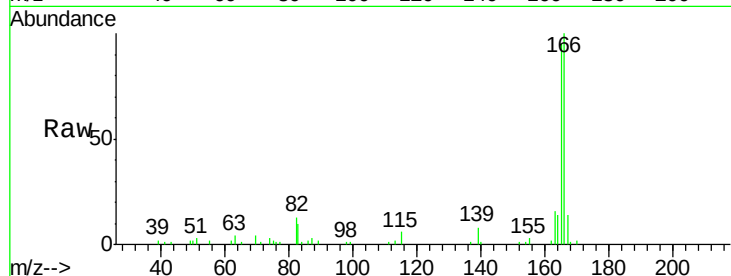
Tot Ion:166 Resp: 27298

Ion Ratio Lower Upper

166 100

165 95.0 75.8 113.8

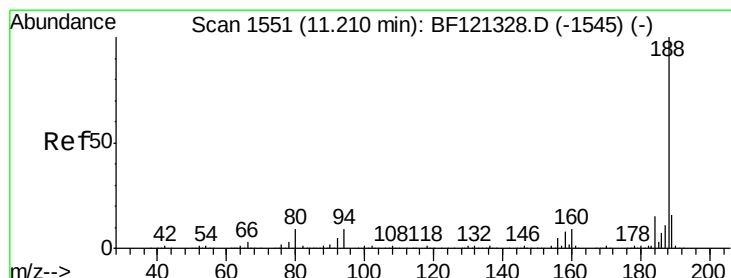
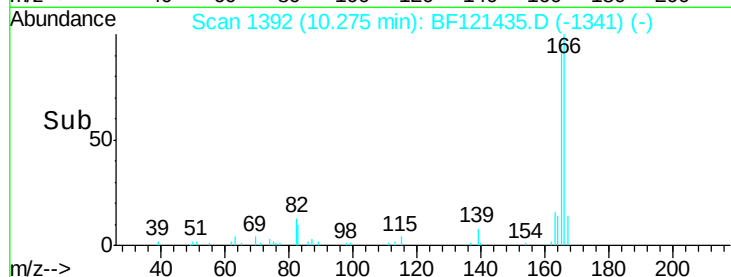
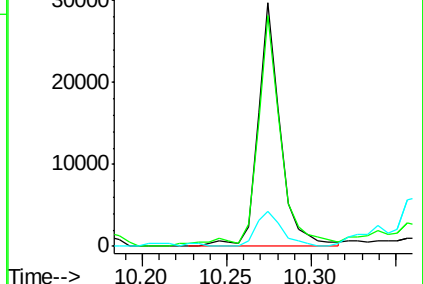
167 14.4 11.0 16.4



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: 11.22 min Scan# 1552

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

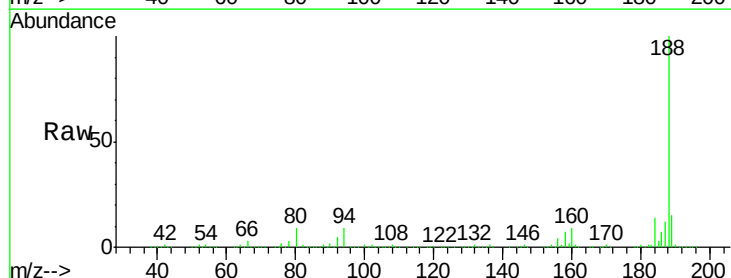
Tgt Ion:188 Resp: 572333

Ion Ratio Lower Upper

188 100

94 8.6 7.2 10.8

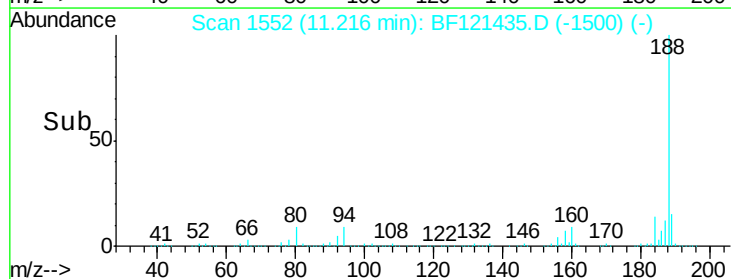
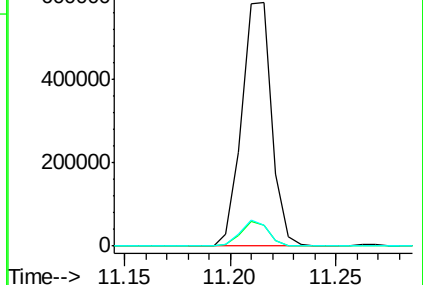
80 8.8 7.4 11.0

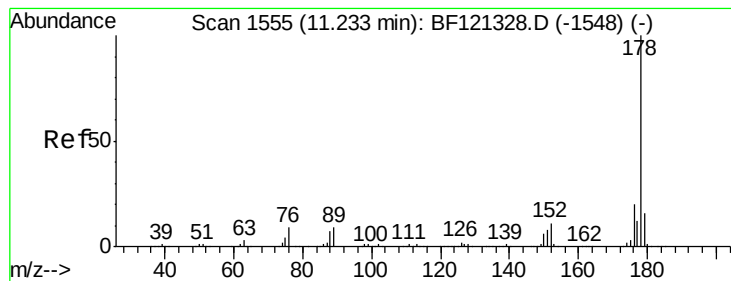


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 24.232 ng

RT: 11.24 min Scan# 1556

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

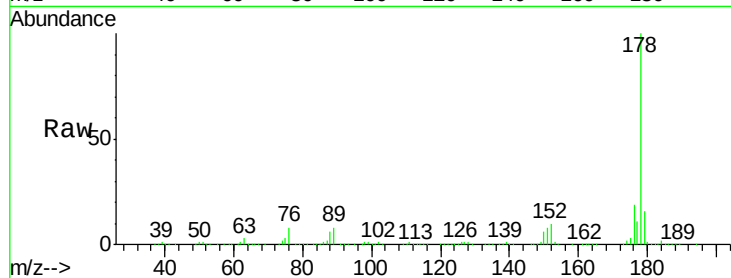
Tot Ion:178 Resp: 717794

Ion Ratio Lower Upper

178 100

176 19.4 16.0 24.0

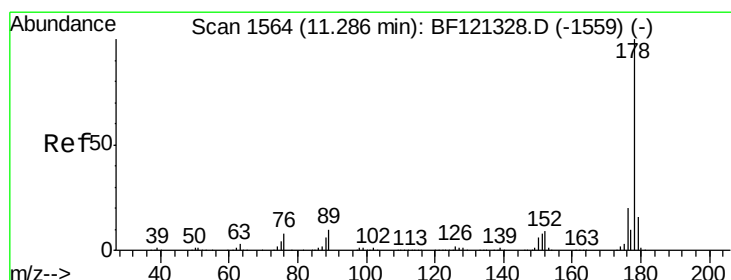
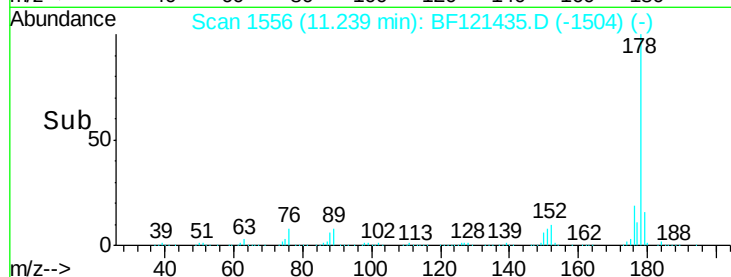
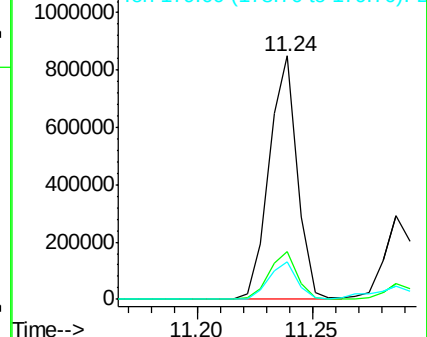
179 15.5 12.8 19.2



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: 8.614 ng

RT: 11.29 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

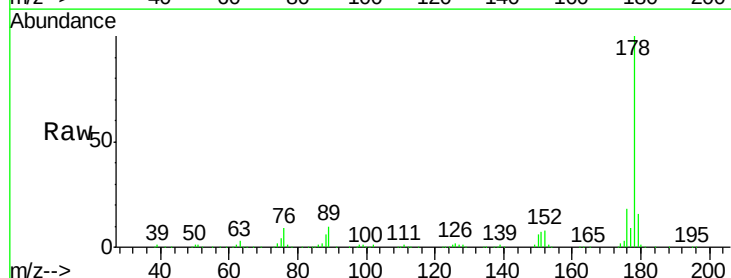
Tgt Ion:178 Resp: 245717

Ion Ratio Lower Upper

178 100

176 18.5 15.6 23.4

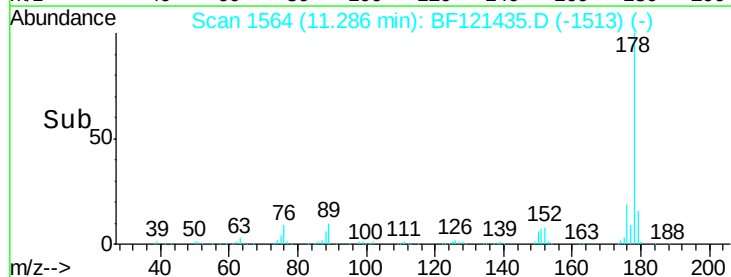
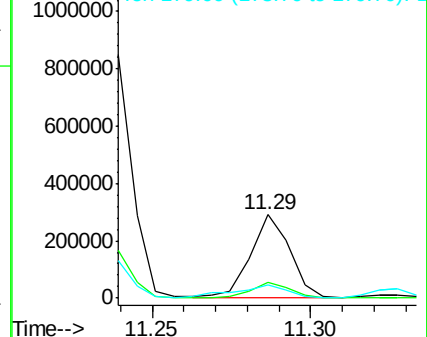
179 16.3 12.8 19.2

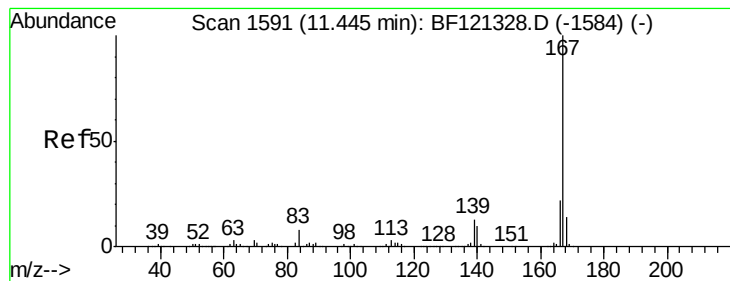


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 4.481 ng

RT: 11.45 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

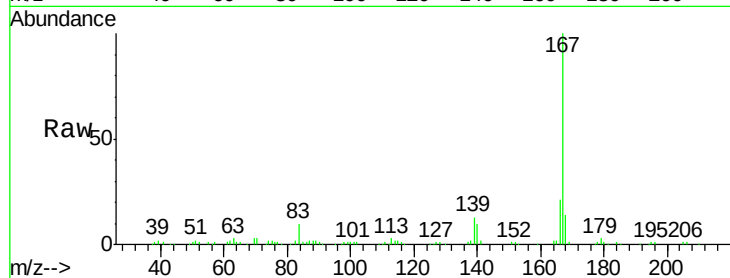
Tot Ion:167 Resp: 121983

Ion Ratio Lower Upper

167 100

166 21.2 17.7 26.5

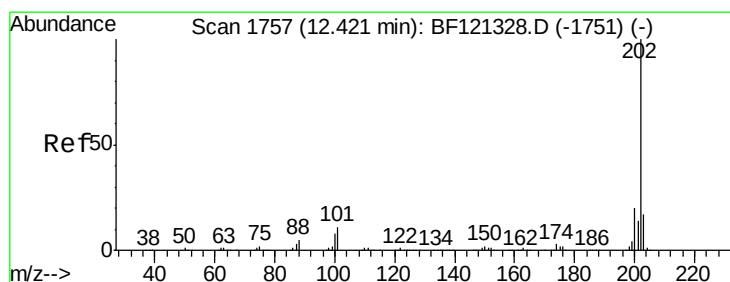
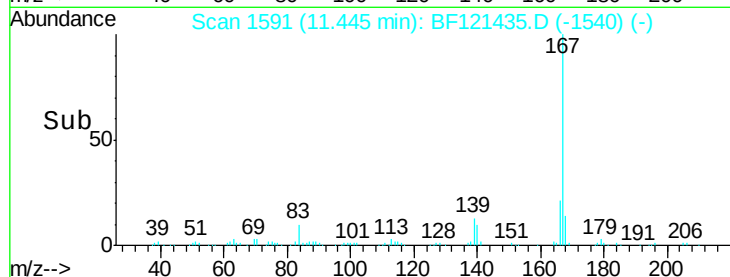
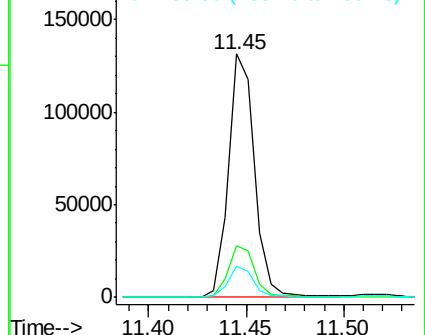
139 12.8 10.2 15.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Fluoranthene

Concen: 43.875 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

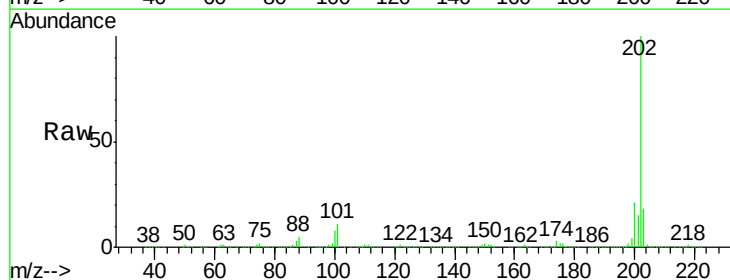
Tgt Ion:202 Resp: 1410638

Ion Ratio Lower Upper

202 100

101 10.7 0.0 30.6

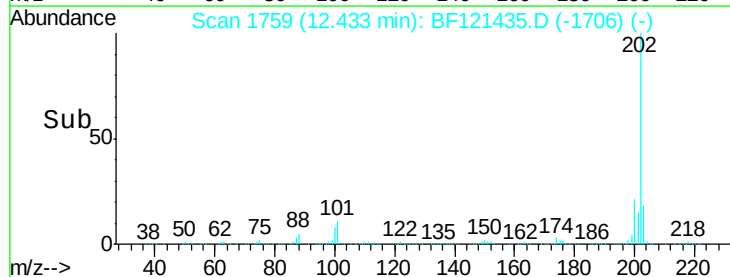
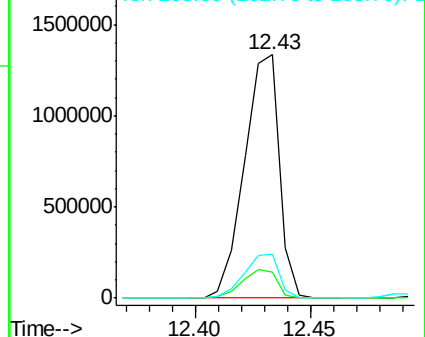
203 17.9 0.0 37.5

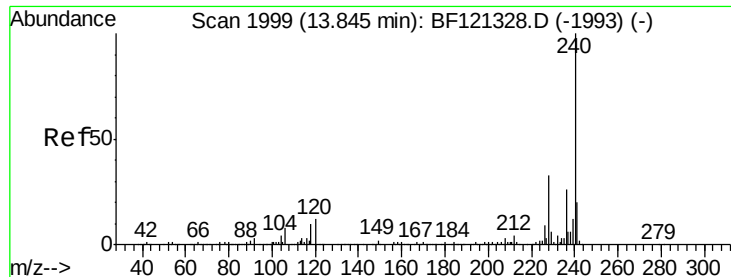


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 2001

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

Instrument :

BNA_F

ClientSampleId :

349-346DL

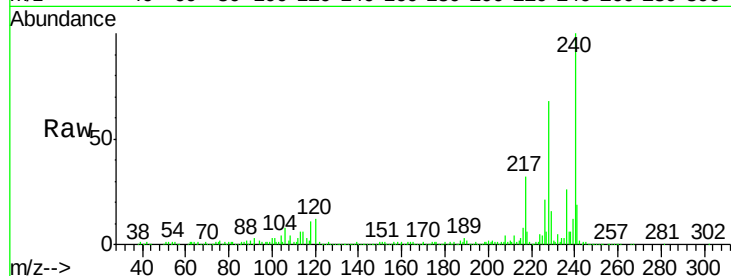
Tot Ion:240 Resp: 414348

Ion Ratio Lower Upper

240 100

120 12.4 9.6 14.4

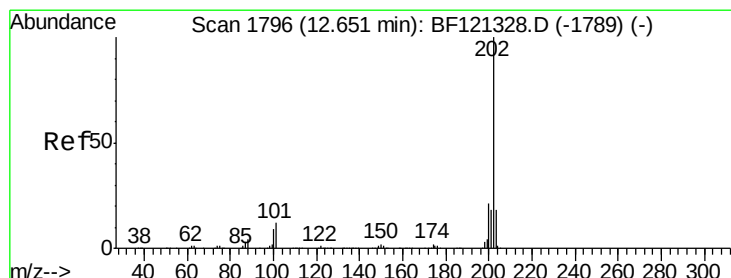
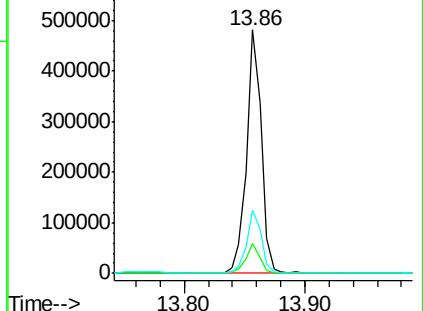
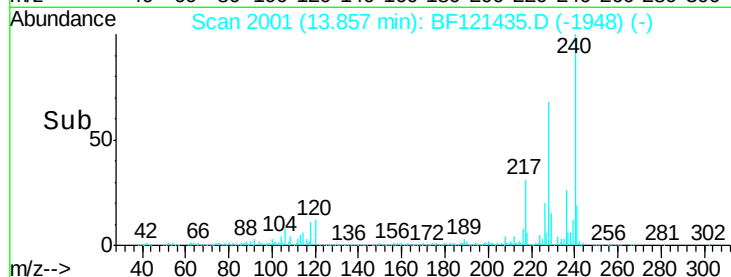
236 26.1 20.6 31.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 45.699 ng

RT: 12.66 min Scan# 1798

Delta R.T. 0.01 min

Lab File: BF121435.D

Acq: 25 Aug 2020 19:10

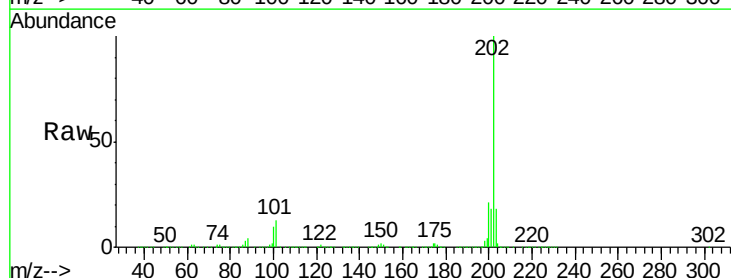
Tgt Ion:202 Resp: 1422368

Ion Ratio Lower Upper

202 100

200 21.3 16.6 24.8

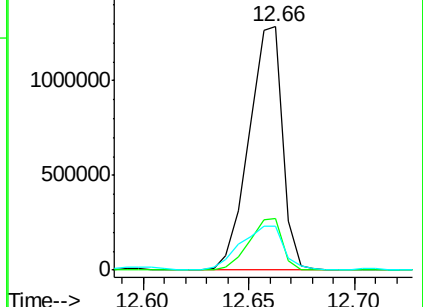
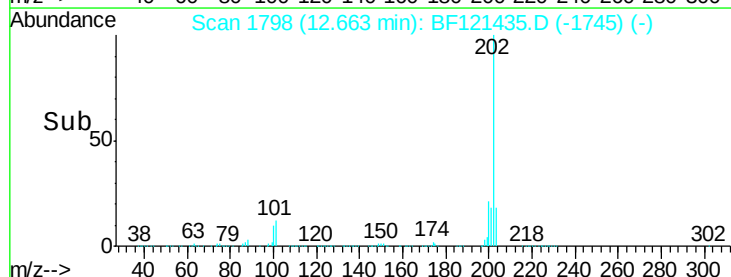
203 17.9 14.2 21.2

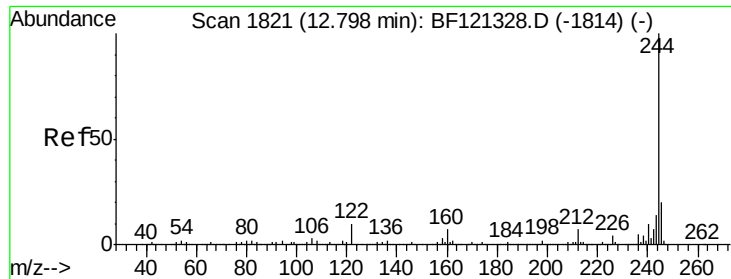


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

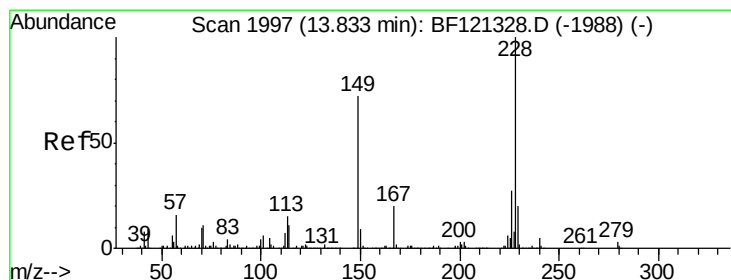
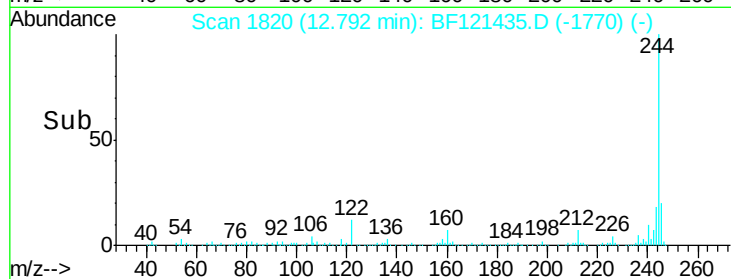
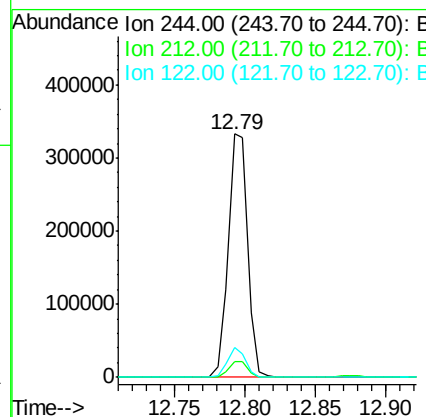
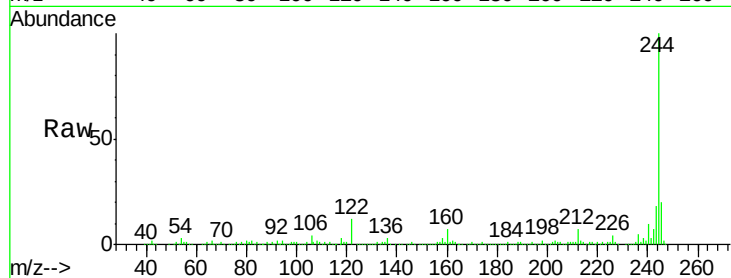




#79
 Terphenyl-d14
 Concen: 14.948 ng
 RT: 12.79 min Scan# 1820
 Delta R.T. -0.00 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

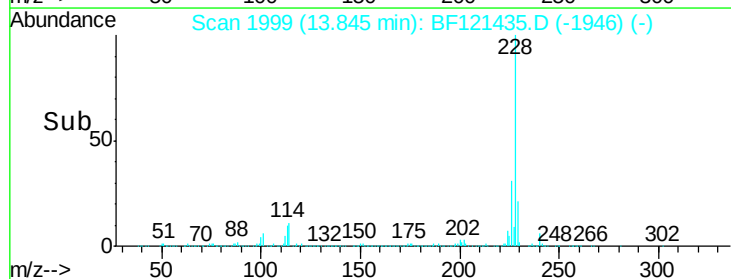
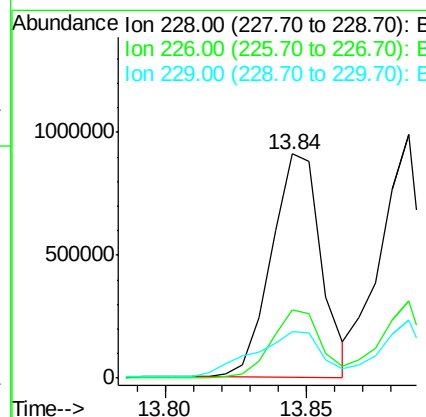
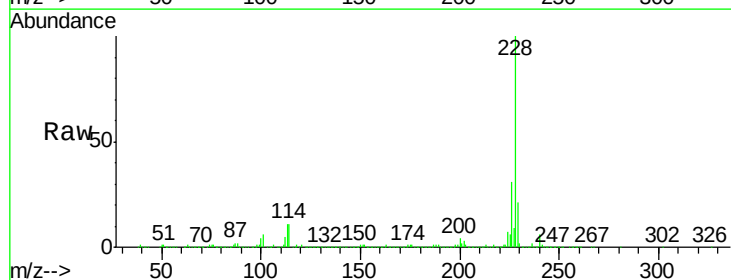
Instrument :
 BNA_F
 ClientSampleId :
 349-346DL

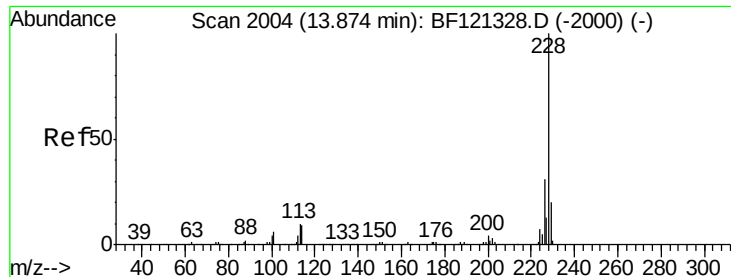
Tot Ion:244 Resp: 316944
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.4 8.0
 122 12.2 7.8 11.8#



#81
 Benzo(a)anthracene
 Concen: 43.294 ng
 RT: 13.84 min Scan# 1999
 Delta R.T. 0.01 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

Tgt Ion:228 Resp: 1114204
 Ion Ratio Lower Upper
 228 100
 226 30.7 21.8 32.6
 229 20.9 15.8 23.8

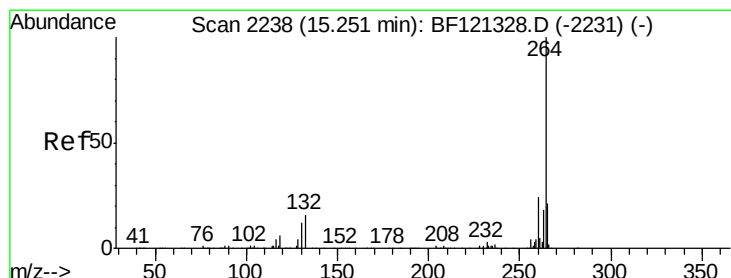
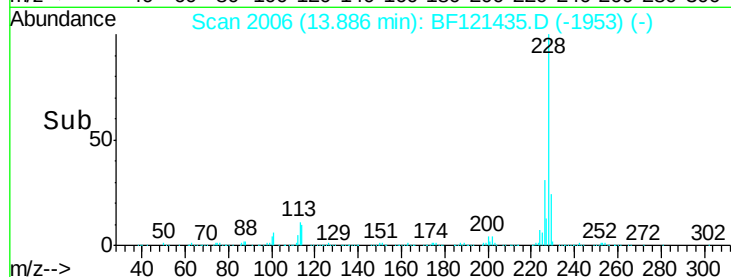
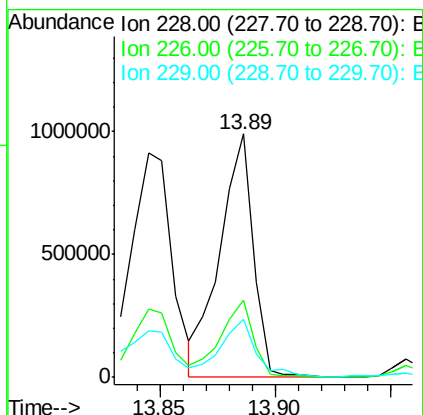
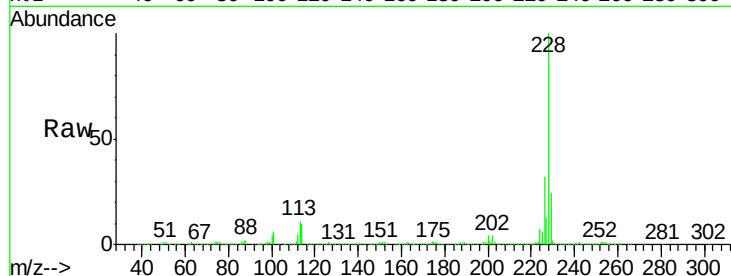




#83
Chrysene
Concen: 37.705 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.01 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

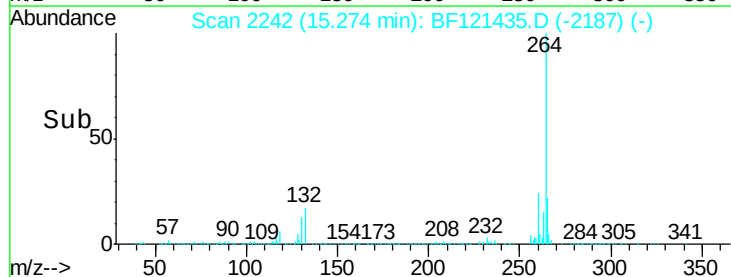
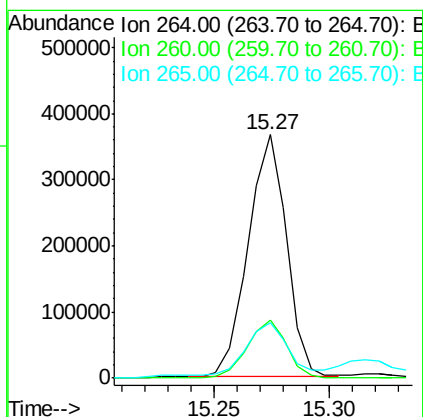
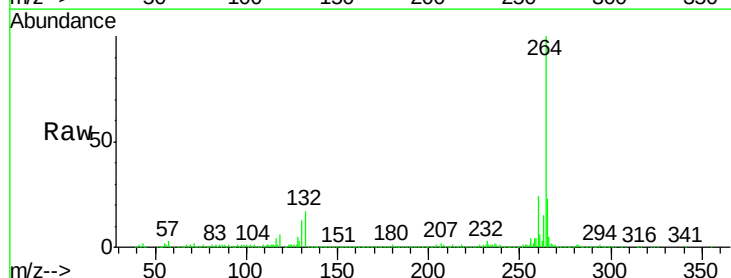
Instrument :
BNA_F
ClientSampleId :
349-346DL

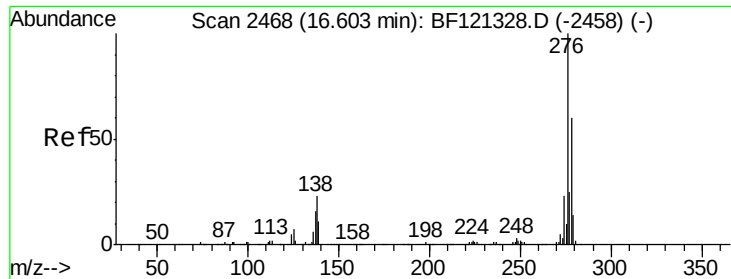
Tot Ion:228 Resp: 992424
Ion Ratio Lower Upper
228 100
226 31.6 24.6 36.8
229 23.7 15.9 23.9



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.02 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

Tgt Ion:264 Resp: 425922
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 22.7 17.1 25.7

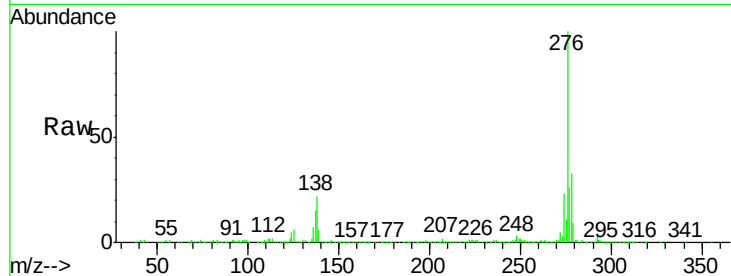




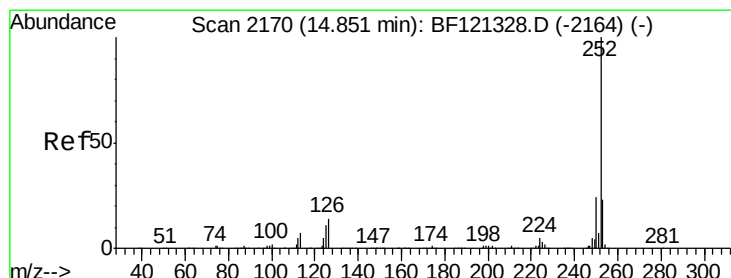
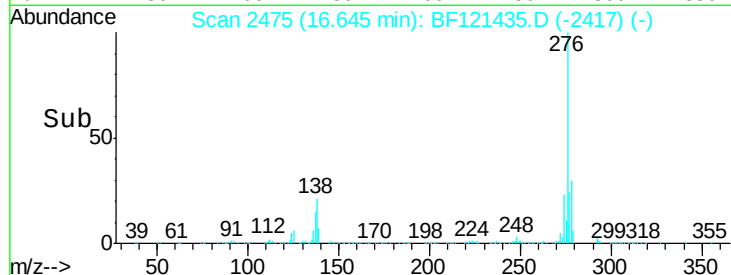
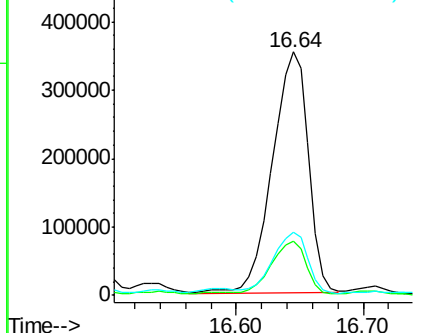
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 26.747 ng
 RT: 16.64 min Scan# 2475
 Delta R.T. 0.04 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

Instrument :
 BNA_F
 ClientSampleId :
 349-346DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.1	19.4	29.0
277	24.2	19.9	29.9

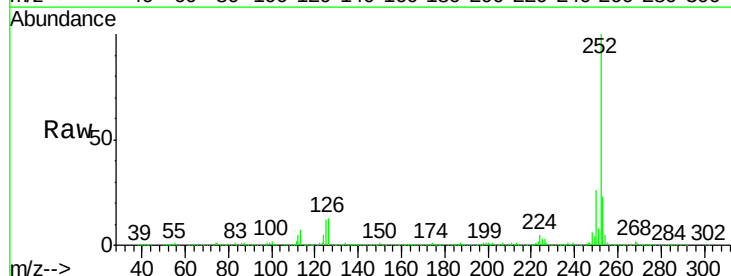


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

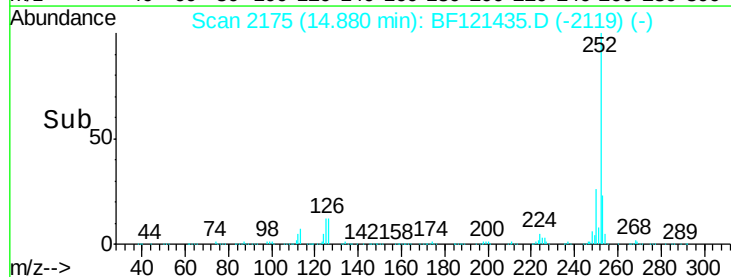
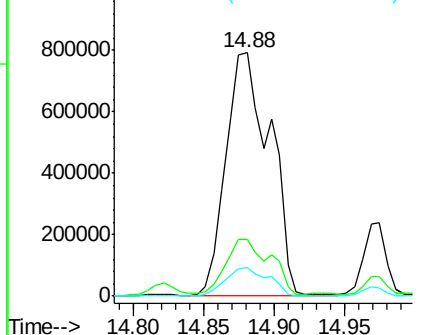


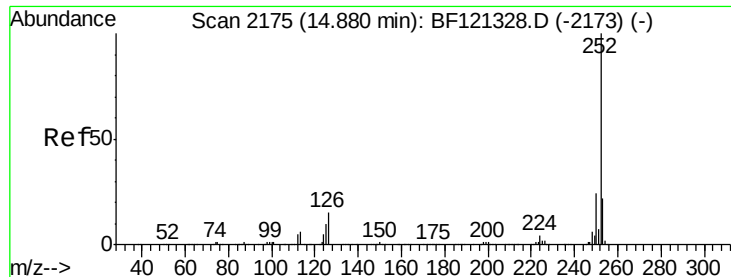
#88
 Benzo(b)fluoranthene
 Concen: 62.956 ng
 RT: 14.88 min Scan# 2175
 Delta R.T. 0.03 min
 Lab File: BF121435.D
 Acq: 25 Aug 2020 19:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	11.8	8.6	12.8



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

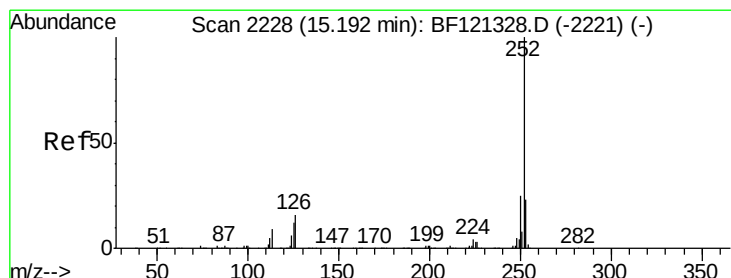
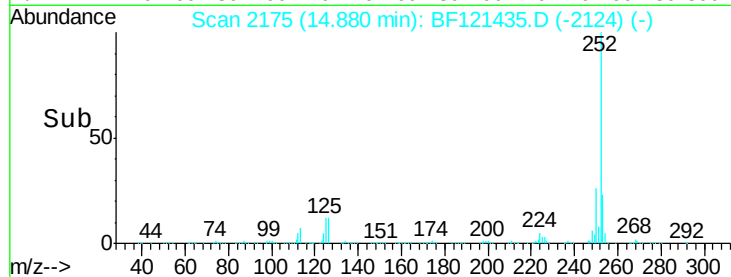
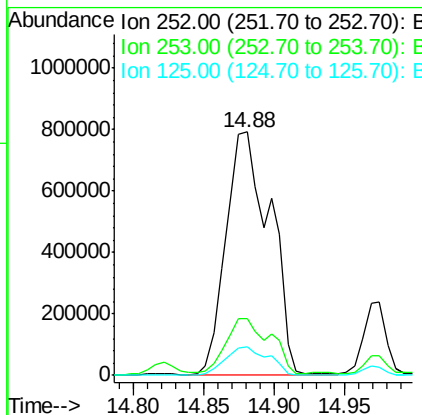
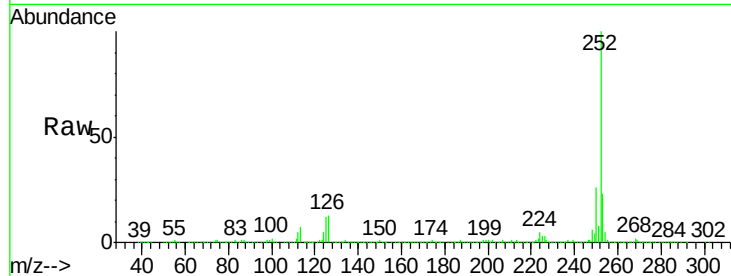




#89
Benzo(k)fluoranthene
Concen: 71.519 ng
RT: 14.88 min Scan# 2175
Delta R.T. 0.00 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

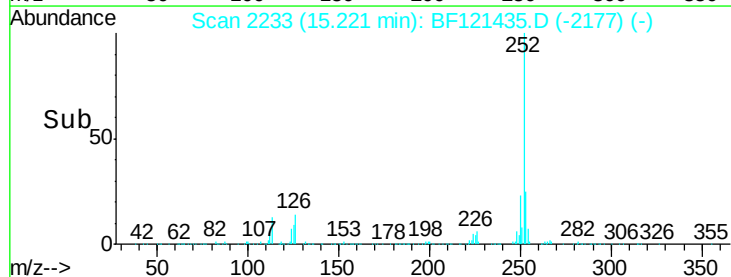
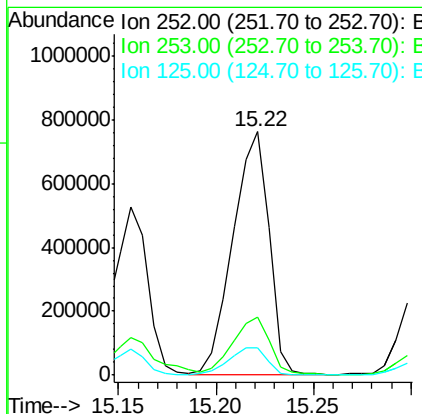
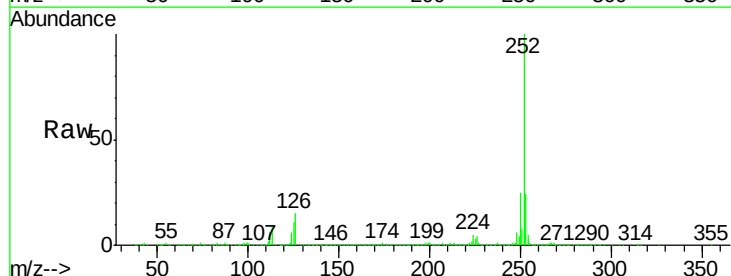
Instrument :
BNA_F
ClientSampled :
349-346DL

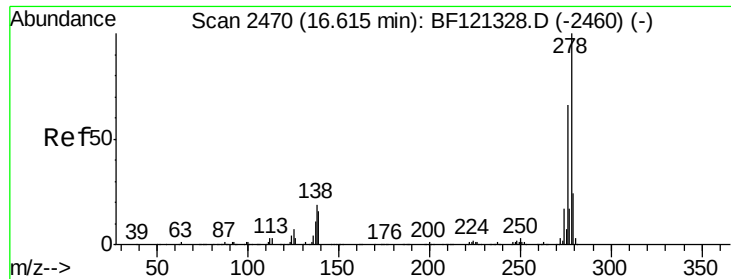
Tot Ion:252 Resp: 1732306
Ion Ratio Lower Upper
252 100
253 23.1 17.9 26.9
125 11.8 8.6 12.8



#90
Benzo(a)pyrene
Concen: 41.112 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.03 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

Tgt Ion:252 Resp: 977454
Ion Ratio Lower Upper
252 100
253 23.9 18.0 27.0
125 11.1 9.4 14.0

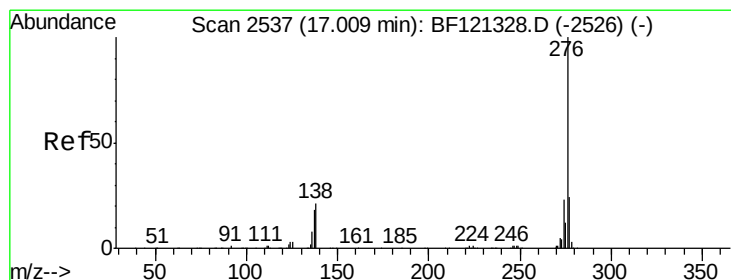
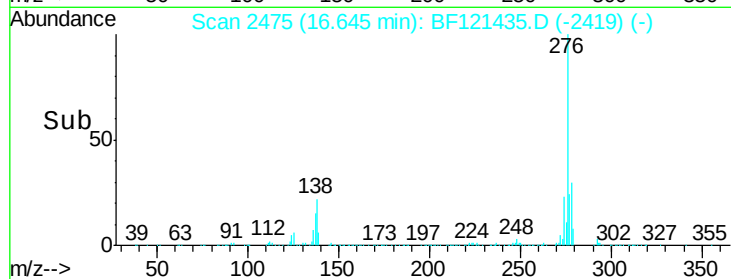
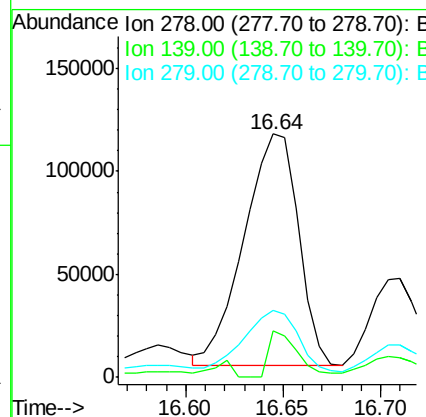
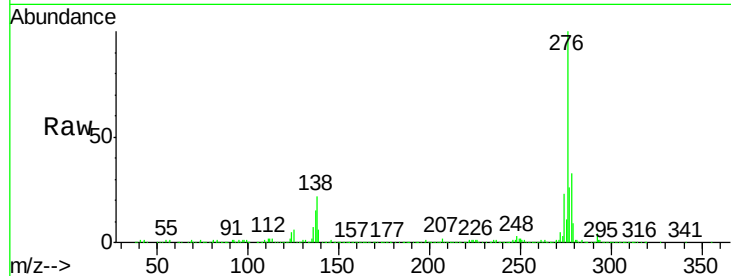




#91
Dibenzo(a,h)anthracene
Concen: 10.182 ng
RT: 16.64 min Scan# 2475
Delta R.T. 0.03 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

Instrument :
BNA_F
ClientSampleId :
349-346DL

Tot Ion:278 Resp: 217044
Ion Ratio Lower Upper
278 100
139 19.3 13.1 19.7
279 27.5 19.4 29.2



#92
Benzo(g,h,i)perylene
Concen: 29.341 ng
RT: 17.06 min Scan# 2545
Delta R.T. 0.05 min
Lab File: BF121435.D
Acq: 25 Aug 2020 19:10

Tgt Ion:276 Resp: 611464
Ion Ratio Lower Upper
276 100
277 24.8 19.3 28.9
138 22.4 16.8 25.2

