

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122122\
 Data File : BF131767.D
 Acq On : 22 Dec 2022 02:40
 Operator : CG\JU
 Sample : N6161-08
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 N40305

Quant Time: Dec 22 05:54:21 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122022.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 21 03:12:37 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

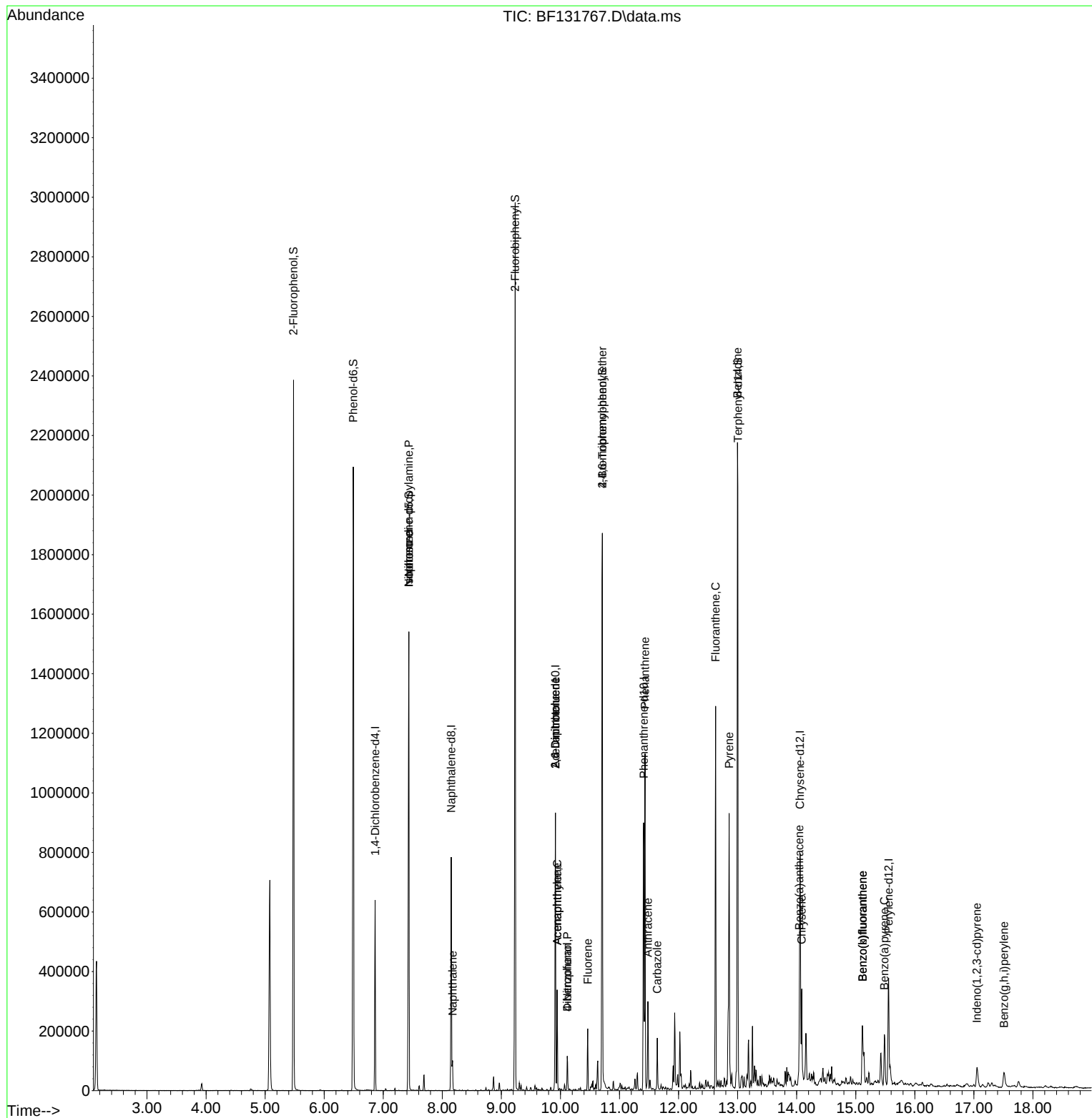
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	81567	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	291604	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	168488	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	326803	20.000	ng	0.00
76) Chrysene-d12	14.057	240	192283	20.000	ng	0.00
86) Perylene-d12	15.557	264	171467	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	579051	119.541	ng	0.00
7) Phenol-d6	6.492	99	762899	117.012	ng	-0.01
23) Nitrobenzene-d5	7.434	82	528236	73.539	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	214599	116.366	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	812267	67.533	ng	0.00
79) Terphenyl-d14	13.004	244	795311	64.463	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.434	77	65	Below Cal	#	5
19) n-Nitroso-di-n-propyla...	7.434	70	73020	15.529	ng	# 78
25) Isophorone	7.434	82	525549	43.083	ng	# 70
31) Naphthalene	8.175	128	38380	2.410	ng	# 98
49) Acenaphthylene	9.945	152	33141	2.129	ng	# 1
51) 2,6-Dinitrotoluene	9.916	165	22389	8.213	ng	# 19
52) Acenaphthene	9.945	154	60616	6.357	ng	# 99
55) Dibenzofuran	10.116	168	38604	2.640	ng	# 97
56) 4-Nitrophenol	10.116	139	15385	7.706	ng	# 1
57) 2,4-Dinitrotoluene	9.916	165	22389	6.112	ng	# 18
58) Fluorene	10.463	166	46684	3.949	ng	# 95
67) 4-Bromophenyl-phenylether	10.710	248	14542	3.768	ng	# 1
71) Phenanthrene	11.433	178	368631	20.686	ng	# 99
72) Anthracene	11.480	178	97043	5.562	ng	# 99
73) Carbazole	11.639	167	54169	3.588	ng	# 99
75) Fluoranthene	12.627	202	455490	22.951	ng	# 100
77) Benzidine	12.998	184	12100	3.432	ng	# 93
78) Pyrene	12.857	202	359070	20.539	ng	# 100
81) Benzo(a)anthracene	14.045	228	138442	9.997	ng	# 99
83) Chrysene	14.086	228	118112	9.036	ng	# 97
87) Indeno(1,2,3-cd)pyrene	17.051	276	44601	3.873	ng	# 98
88) Benzo(b)fluoranthene	15.115	252	160099	13.197	ng	# 98
89) Benzo(k)fluoranthene	15.115	252	160099	13.525	ng	# 99
90) Benzo(a)pyrene	15.486	252	83204	8.659	ng	# 99
92) Benzo(g,h,i)perylene	17.509	276	45925	4.882	ng	# 97

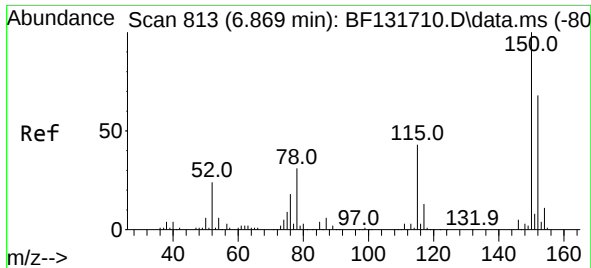
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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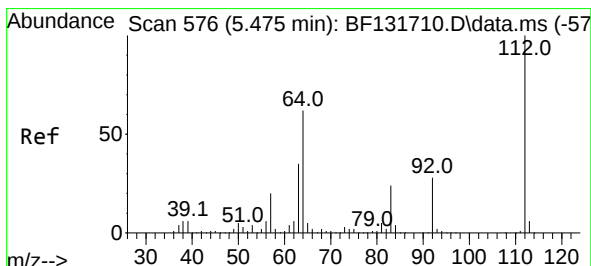
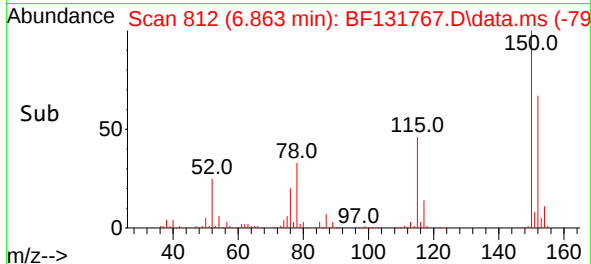
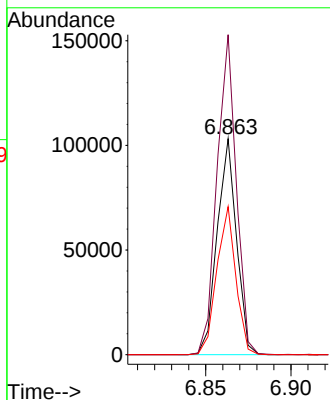
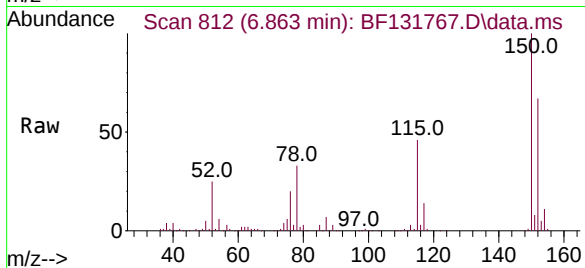




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

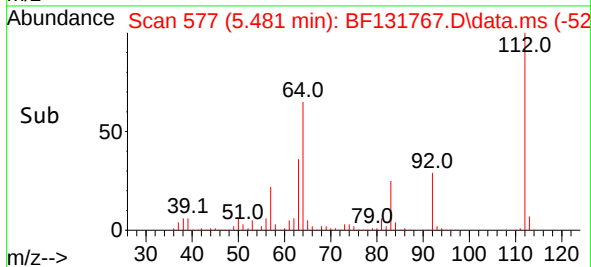
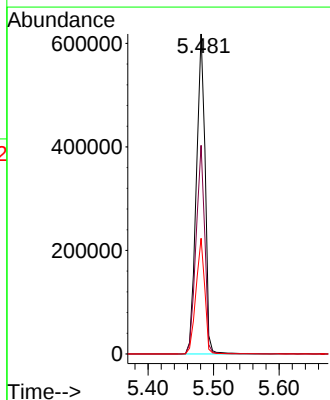
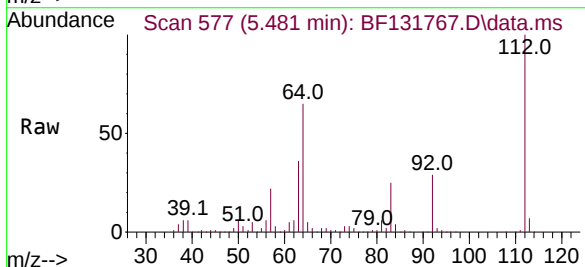
Instrument :
BNA_F
ClientSampleId :
N40305

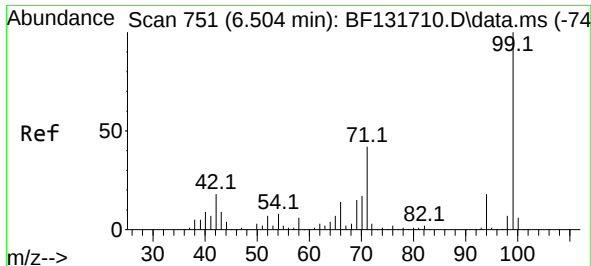
Tgt Ion:152 Resp: 81567
Ion Ratio Lower Upper
152 100
150 148.2 117.4 176.0
115 68.5 50.2 75.4



#5
2-Fluorophenol
Concen: 119.541 ng
RT: 5.481 min Scan# 577
Delta R.T. 0.006 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

Tgt Ion:112 Resp: 579051
Ion Ratio Lower Upper
112 100
64 65.2 49.5 74.3
63 36.2 28.2 42.2

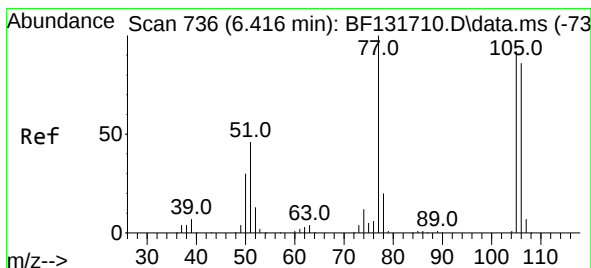
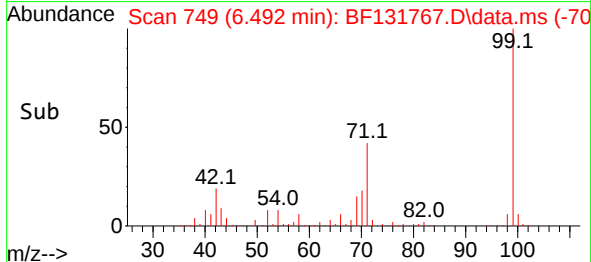
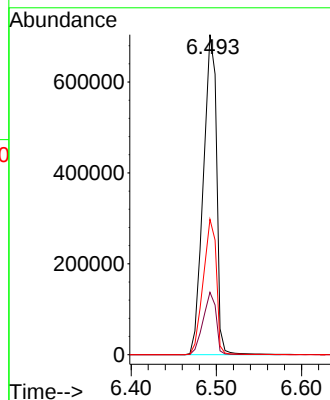
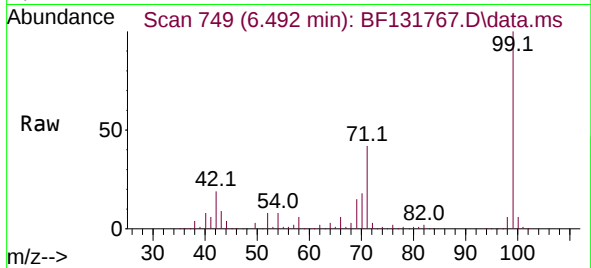




#7
Phenol-d6
Concen: 117.012 ng
RT: 6.492 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

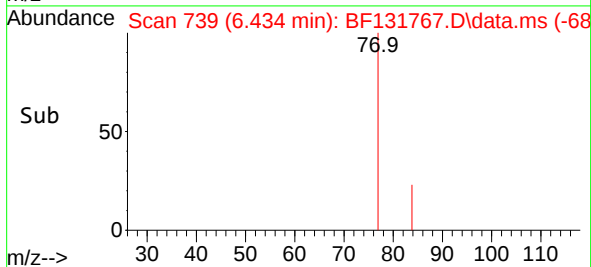
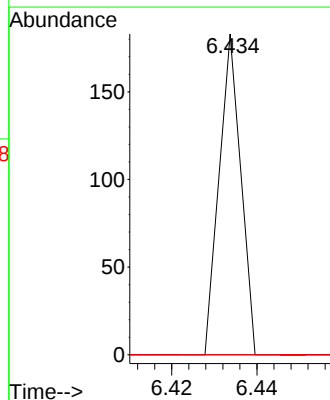
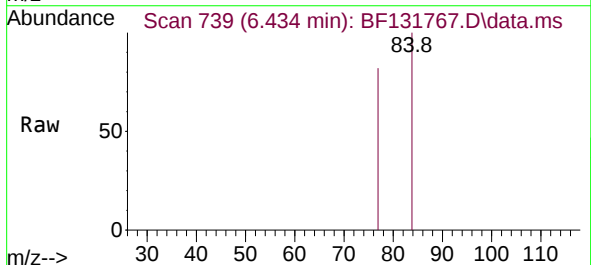
Instrument :
BNA_F
ClientSampleId :
N40305

Tgt Ion: 99 Resp: 762899
Ion Ratio Lower Upper
99 100
42 19.5 14.8 22.2
71 42.3 33.8 50.6



#9
Benzaldehyde
Concen: Below Cal
RT: 6.434 min Scan# 739
Delta R.T. 0.018 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

Tgt Ion: 77 Resp: 65
Ion Ratio Lower Upper
77 100
105 0.0 72.4 112.4#
106 0.0 66.5 106.5#





#19

n-Nitroso-di-n-propylamine

Concen: 15.529 ng

RT: 7.434 min Scan# 90

Delta R.T. 0.141 min

Lab File: BF131767.D

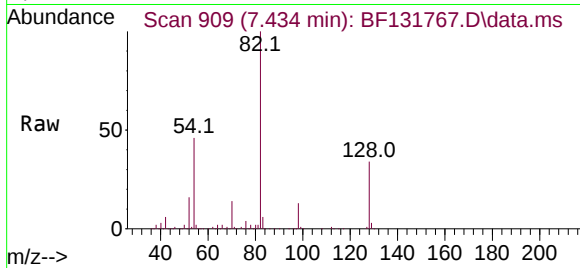
Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305



Tgt Ion: 70 Resp: 73020

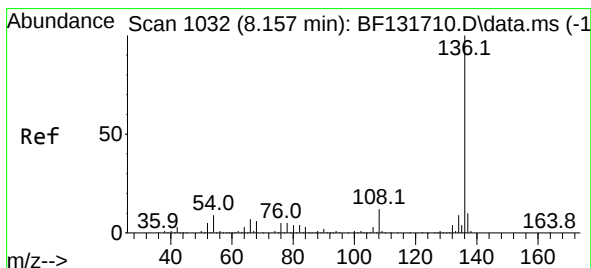
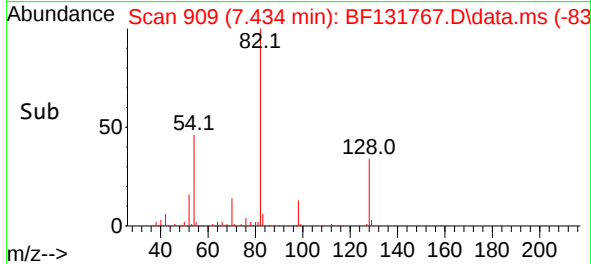
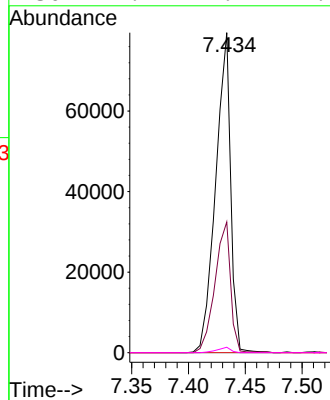
Ion Ratio Lower Upper

70 100

42 40.8 41.5 62.3#

101 0.0 7.3 10.9#

130 1.7 14.4 21.6#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.151 min Scan# 1031

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Tgt Ion: 136 Resp: 291604

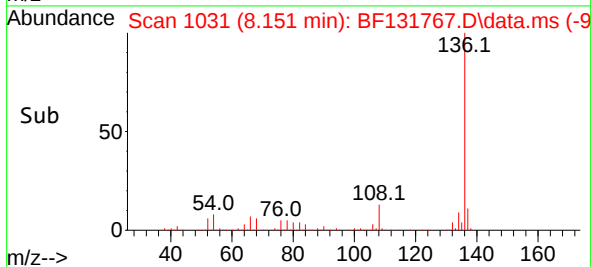
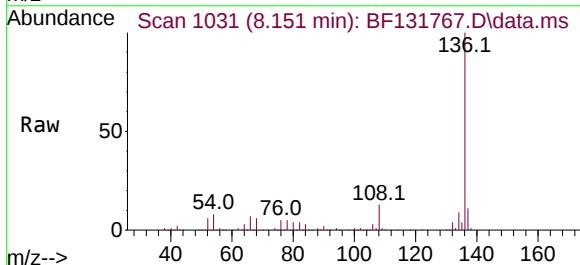
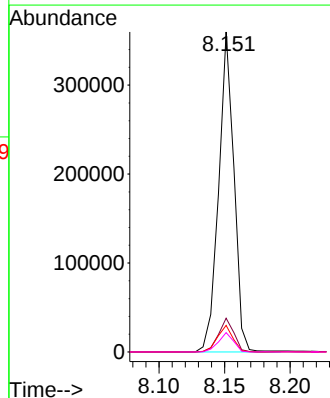
Ion Ratio Lower Upper

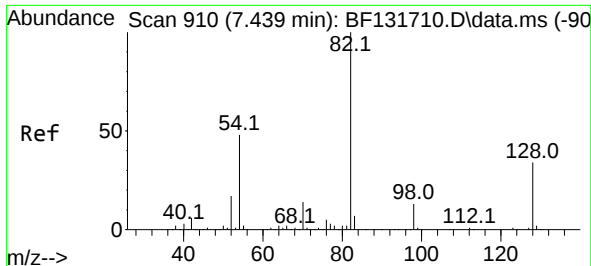
136 100

137 10.5 8.4 12.6

54 8.3 7.2 10.8

68 6.1 5.0 7.6





#23

Nitrobenzene-d5

Concen: 73.539 ng

RT: 7.434 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

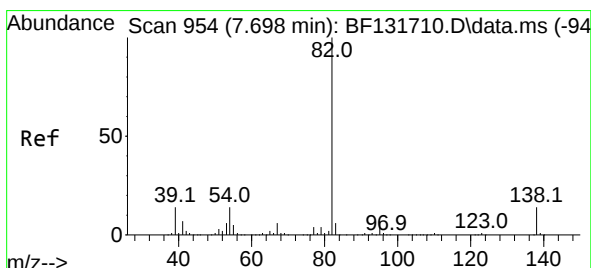
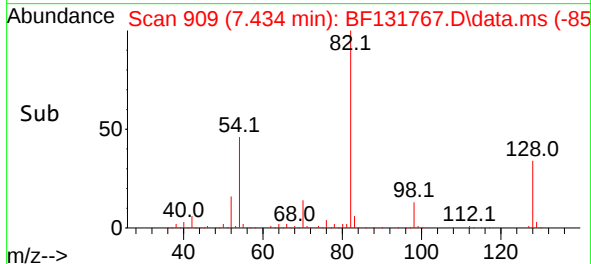
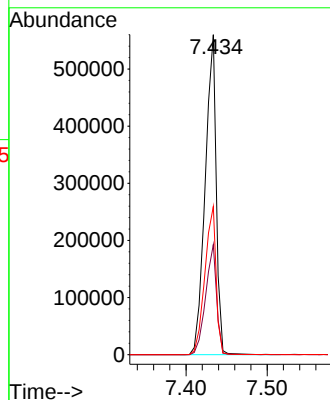
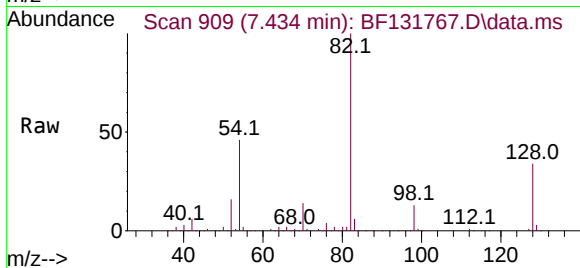
Tgt Ion: 82 Resp: 528236

Ion Ratio Lower Upper

82 100

128 34.4 27.3 40.9

54 46.3 38.2 57.2



#25

Isophorone

Concen: 43.083 ng

RT: 7.434 min Scan# 909

Delta R.T. -0.265 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

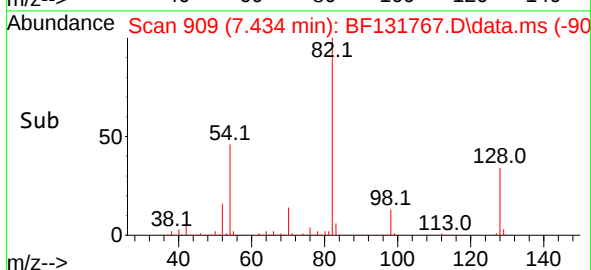
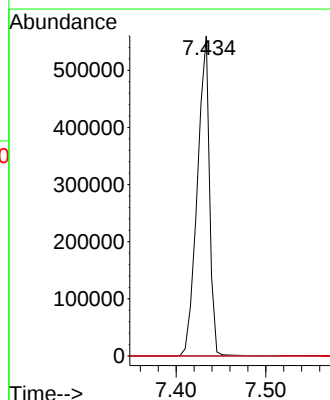
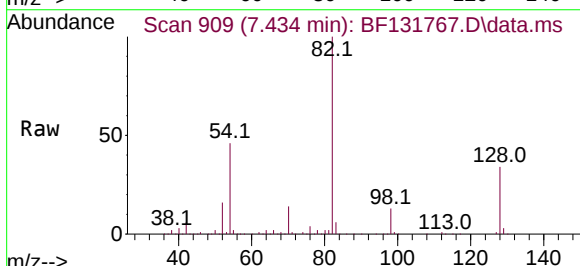
Tgt Ion: 82 Resp: 525549

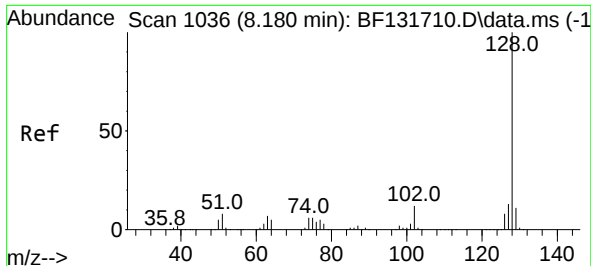
Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

138 0.0 11.6 17.4#

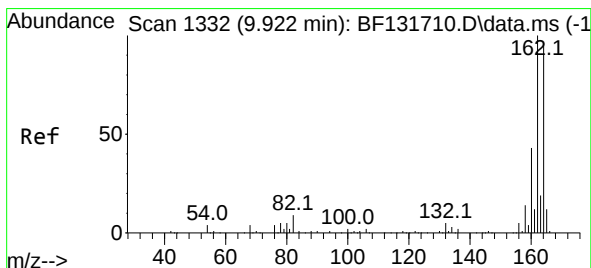
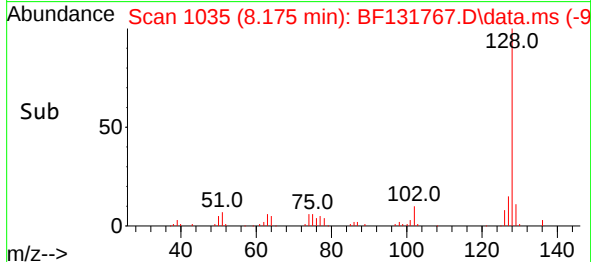
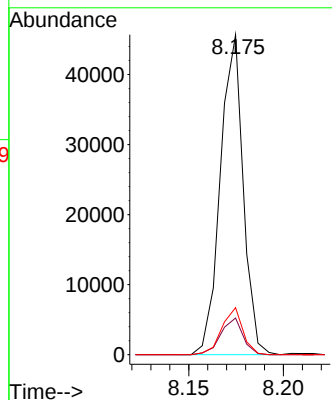
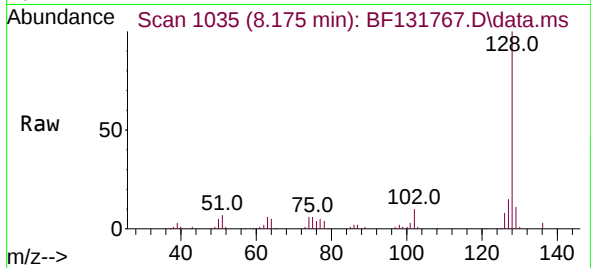




#31
Naphthalene
Concen: 2.410 ng
RT: 8.175 min Scan# 1035
Delta R.T. -0.006 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

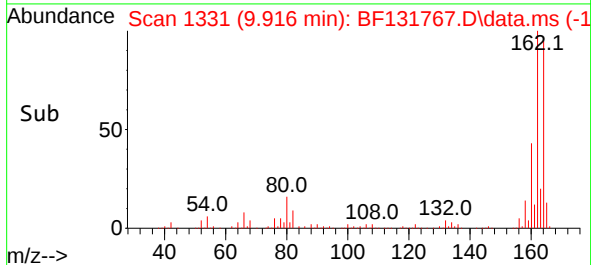
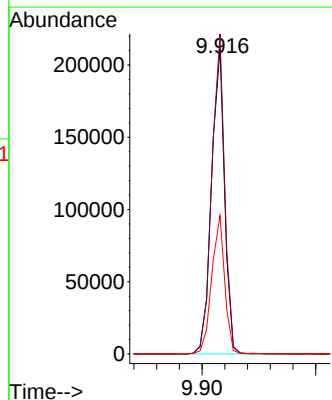
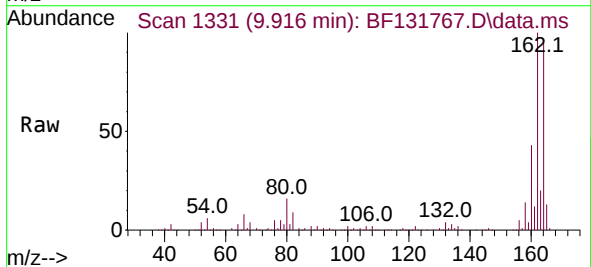
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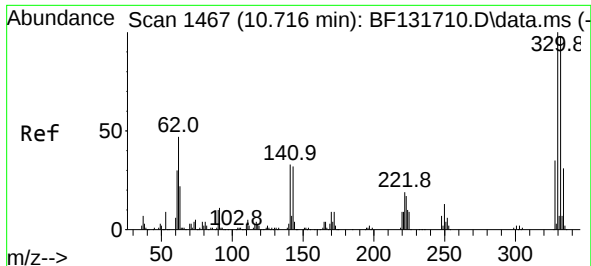
Tgt Ion:128 Resp: 38380
Ion Ratio Lower Upper
128 100
129 11.5 8.9 13.3
127 14.7 10.6 15.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

Tgt Ion:164 Resp: 168488
Ion Ratio Lower Upper
164 100
162 104.8 83.7 125.5
160 45.3 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 116.366 ng

RT: 10.710 min Scan# 1466

Delta R.T. -0.006 min

Lab File: BF131767.D

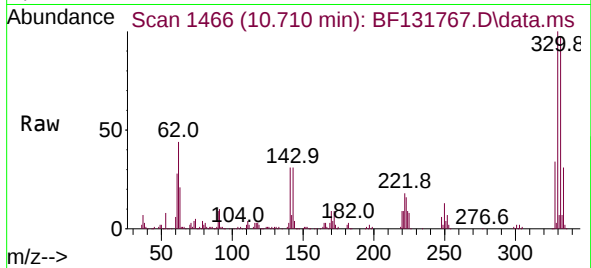
Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305



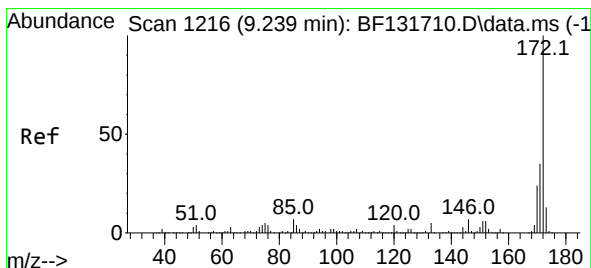
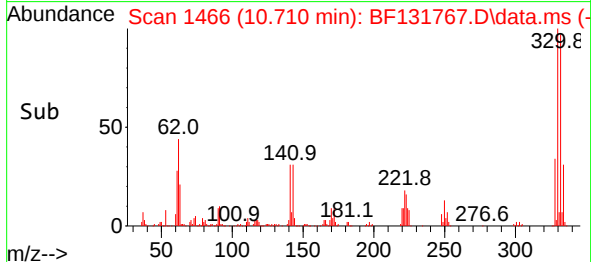
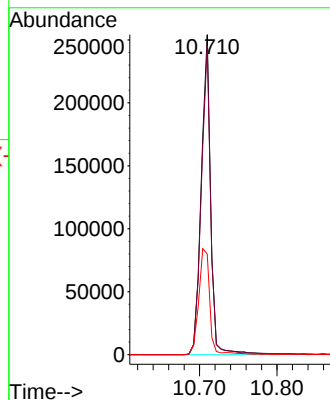
Tgt Ion:330 Resp: 214599

Ion Ratio Lower Upper

330 100

332 96.8 77.1 115.7

141 38.9 30.4 45.6



#45

2-Fluorobiphenyl

Concen: 67.533 ng

RT: 9.233 min Scan# 1215

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

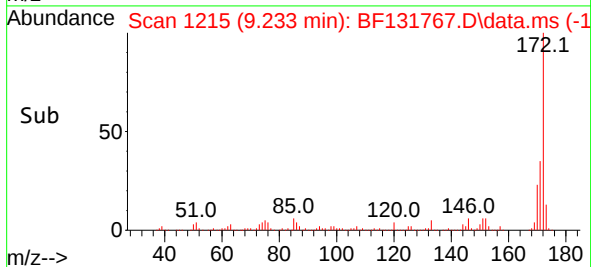
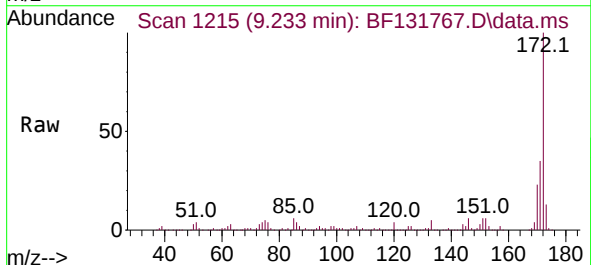
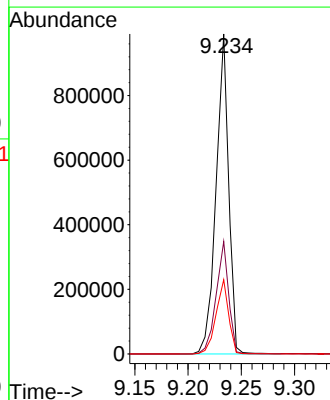
Tgt Ion:172 Resp: 812267

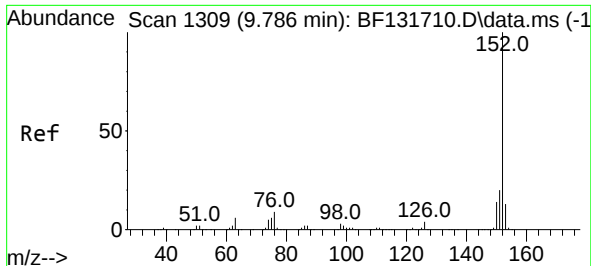
Ion Ratio Lower Upper

172 100

171 35.1 27.9 41.9

170 23.2 19.0 28.4





#49

Acenaphthylene

Concen: 2.129 ng

RT: 9.945 min Scan# 11

Delta R.T. 0.159 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

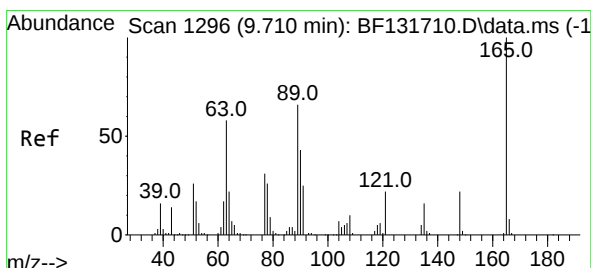
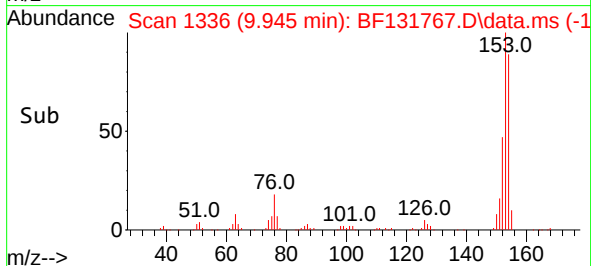
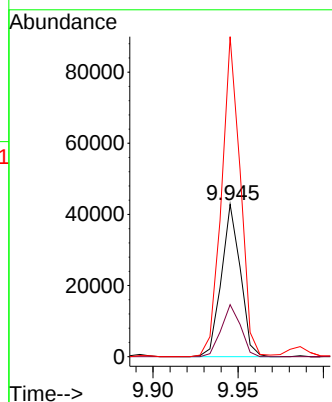
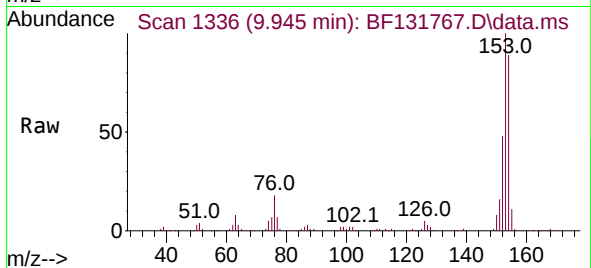
Tgt Ion:152 Resp: 33141

Ion Ratio Lower Upper

152 100

151 34.2 15.8 23.8#

153 210.2 10.6 15.8#



#51

2,6-Dinitrotoluene

Concen: 8.213 ng

RT: 9.916 min Scan# 1331

Delta R.T. 0.206 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

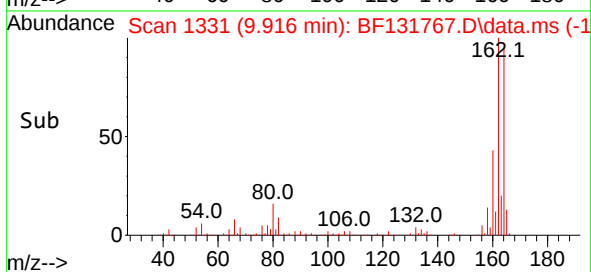
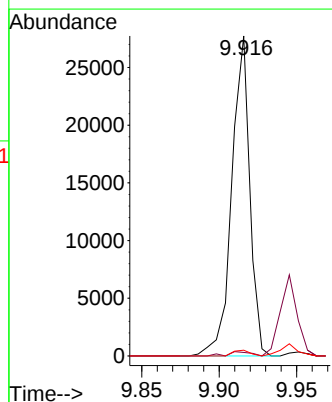
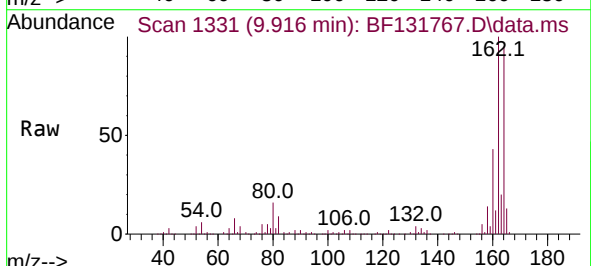
Tgt Ion:165 Resp: 22389

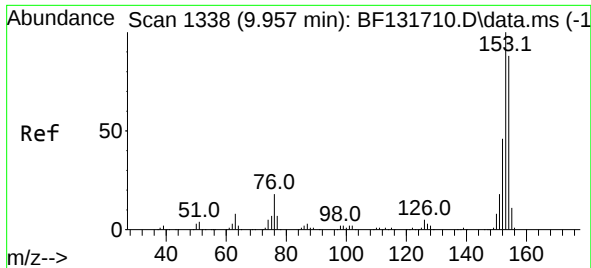
Ion Ratio Lower Upper

165 100

63 1.1 51.8 77.8#

89 1.8 53.2 79.8#





#52

Acenaphthene

Concen: 6.357 ng

RT: 9.945 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

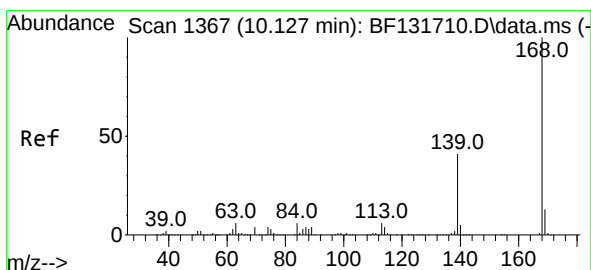
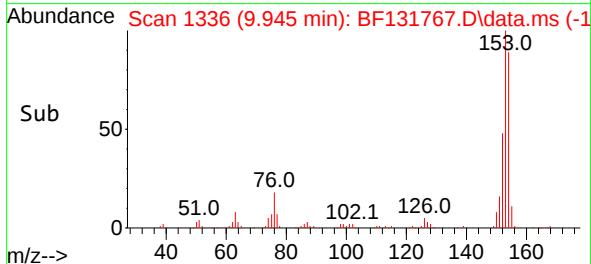
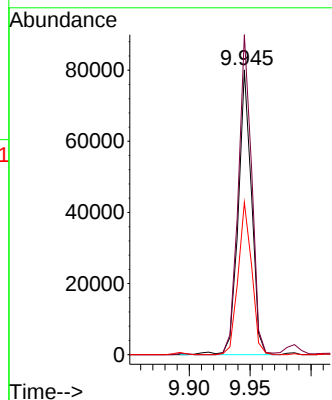
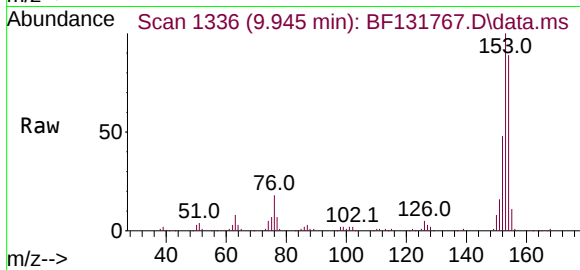
Tgt Ion:154 Resp: 60616

Ion Ratio Lower Upper

154 100

153 112.4 90.4 135.6

152 53.5 42.0 63.0



#55

Dibenzofuran

Concen: 2.640 ng

RT: 10.116 min Scan# 1365

Delta R.T. -0.012 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

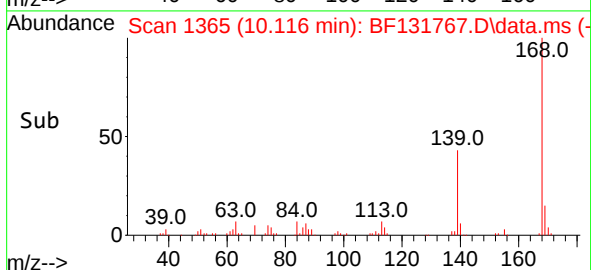
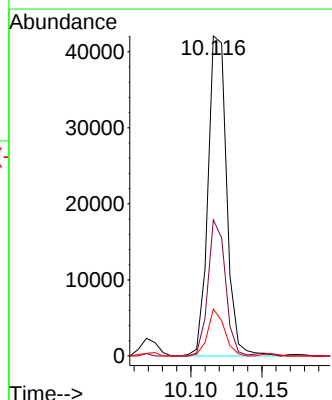
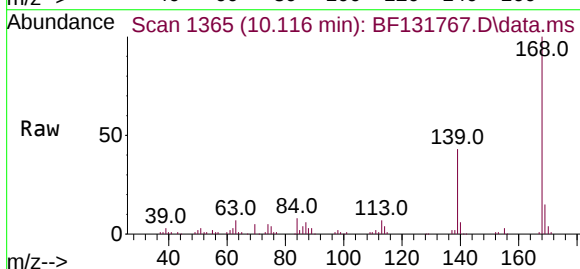
Tgt Ion:168 Resp: 38604

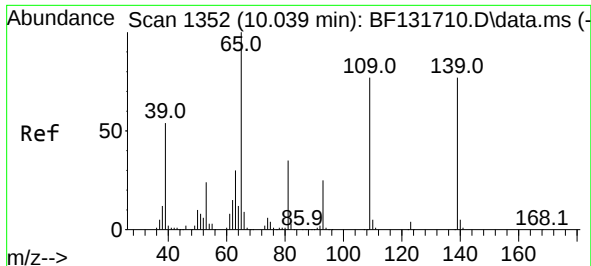
Ion Ratio Lower Upper

168 100

139 42.5 32.7 49.1

169 14.6 10.6 16.0

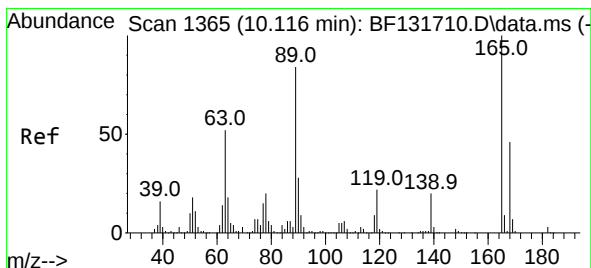
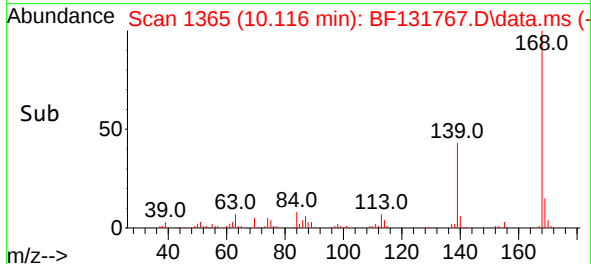
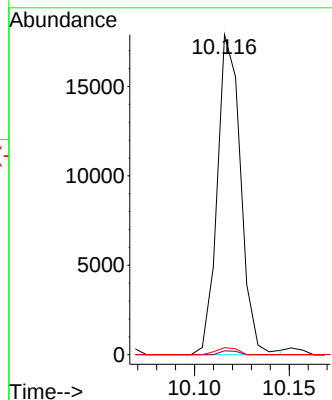
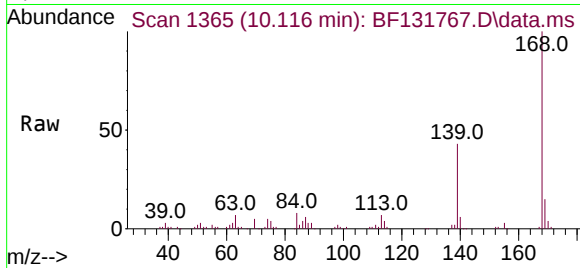




#56
4-Nitrophenol
Concen: 7.706 ng
RT: 10.116 min Scan# 11
Delta R.T. 0.077 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

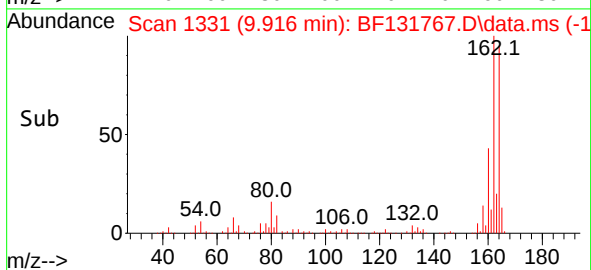
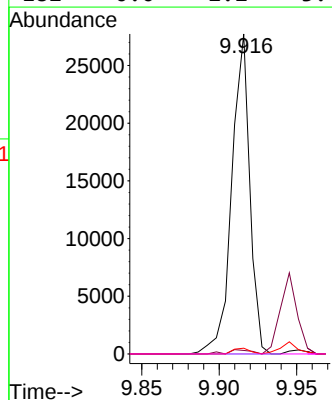
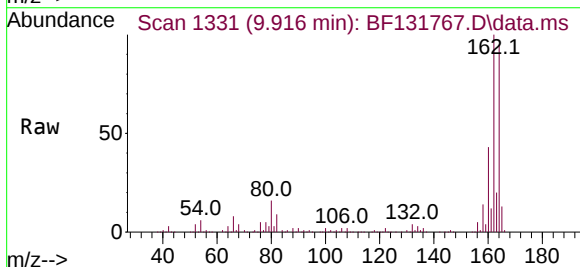
Instrument :
BNA_F
ClientSampleId :
N40305

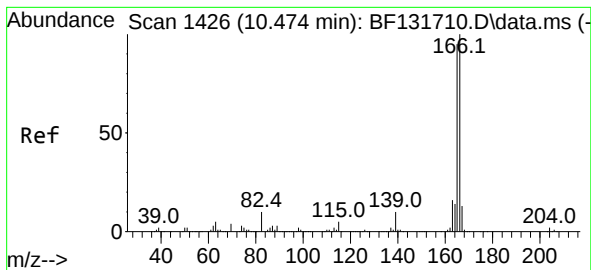
Tgt Ion:139 Resp: 15385
Ion Ratio Lower Upper
139 100
109 1.2 79.9 119.9#
65 2.2 110.2 150.2#



#57
2,4-Dinitrotoluene
Concen: 6.112 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.200 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

Tgt Ion:165 Resp: 22389
Ion Ratio Lower Upper
165 100
63 1.1 41.5 62.3#
89 1.8 67.0 100.4#
182 0.0 2.2 3.4#





#58

Fluorene

Concen: 3.949 ng

RT: 10.463 min Scan# 1424

Delta R.T. -0.012 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

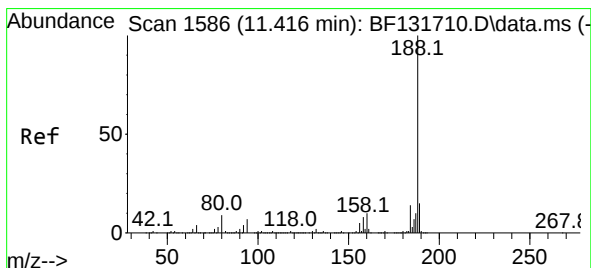
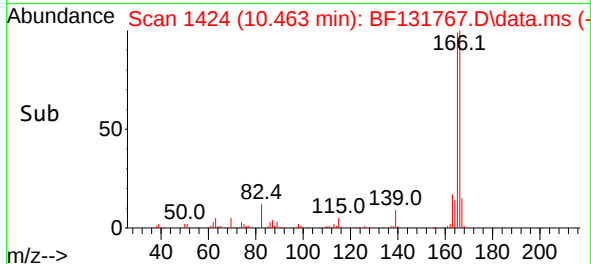
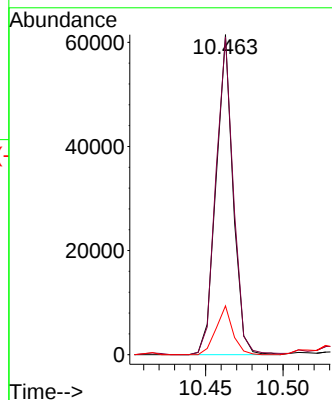
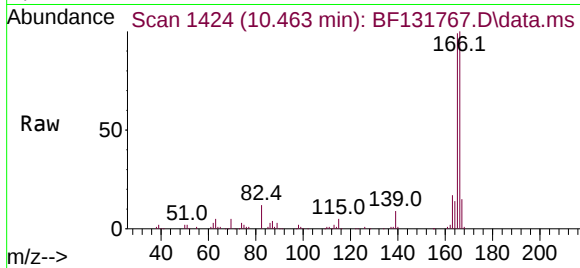
Tgt Ion:166 Resp: 46684

Ion Ratio Lower Upper

166 100

165 99.3 75.8 113.8

167 15.3 10.6 15.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1585

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

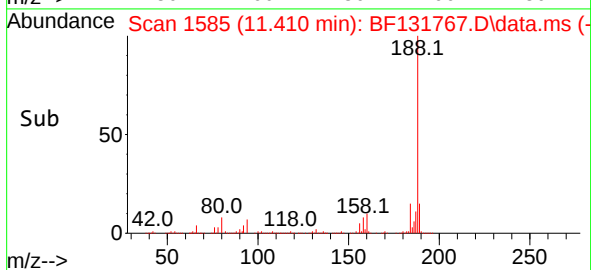
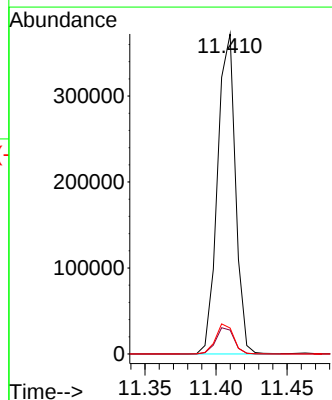
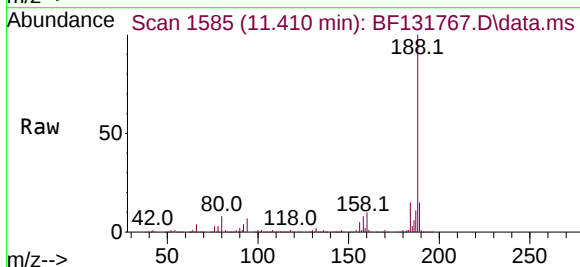
Tgt Ion:188 Resp: 326803

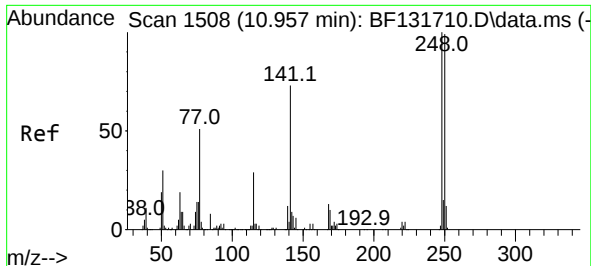
Ion Ratio Lower Upper

188 100

94 7.4 5.9 8.9

80 8.1 7.0 10.6

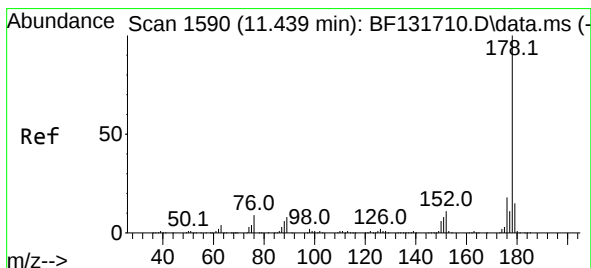
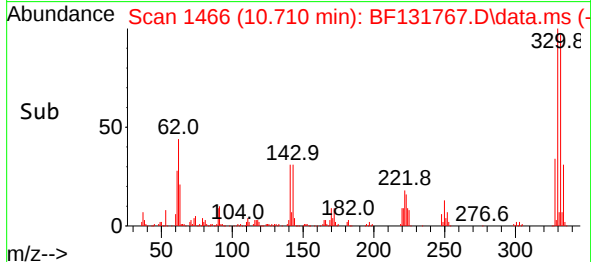
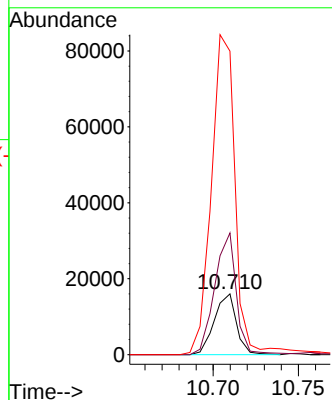
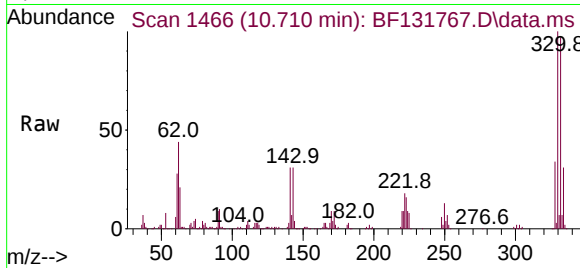




#67
4-Bromophenyl-phenylether
Concen: 3.768 ng
RT: 10.710 min Scan# 1466
Delta R.T. -0.247 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

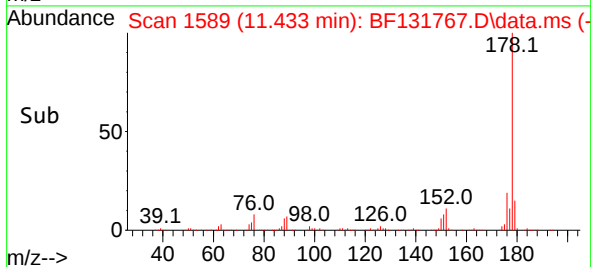
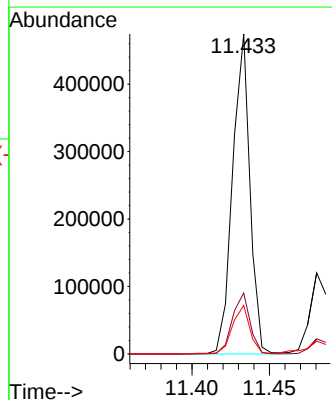
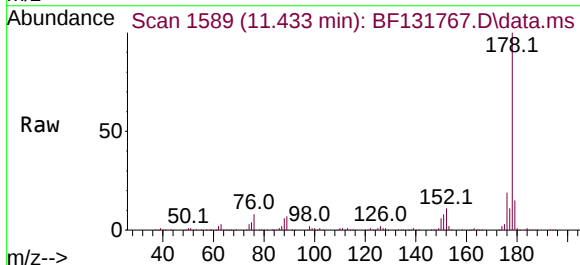
Instrument :
BNA_F
ClientSampleId :
N40305

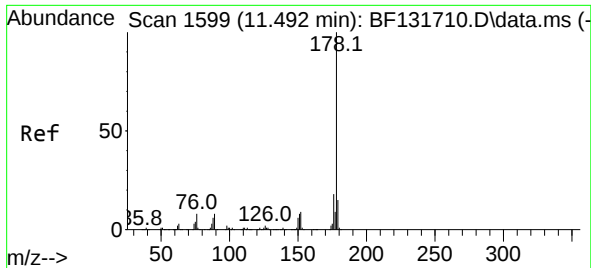
Tgt Ion:248 Resp: 14542
Ion Ratio Lower Upper
248 100
250 200.1 79.4 119.0#
141 498.9 58.1 87.1#



#71
Phenanthrene
Concen: 20.686 ng
RT: 11.433 min Scan# 1589
Delta R.T. -0.006 min
Lab File: BF131767.D
Acq: 22 Dec 2022 02:40

Tgt Ion:178 Resp: 368631
Ion Ratio Lower Upper
178 100
176 19.1 14.8 22.2
179 15.1 12.2 18.4

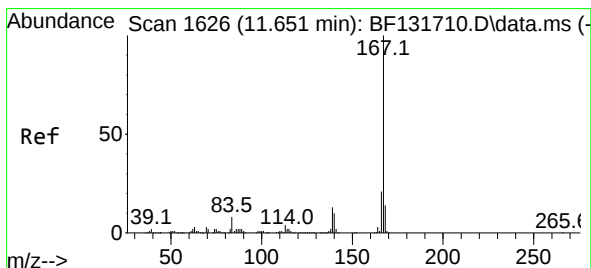
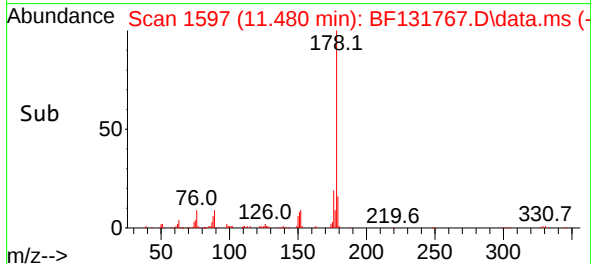
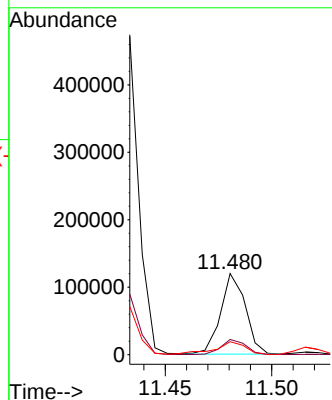
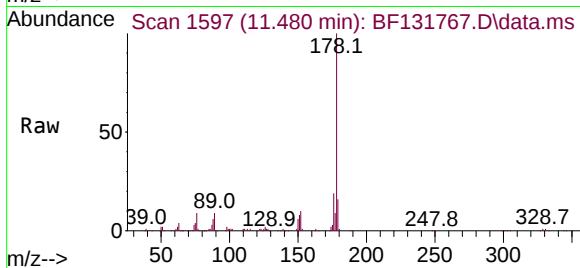




#72
 Anthracene
 Concen: 5.562 ng
 RT: 11.480 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF131767.D
 Acq: 22 Dec 2022 02:40

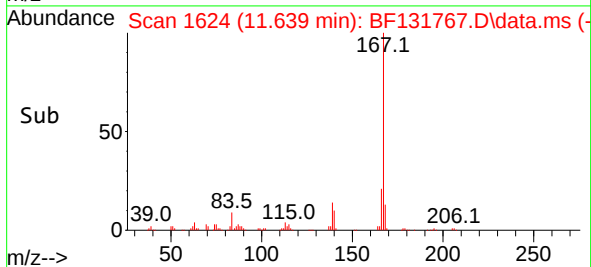
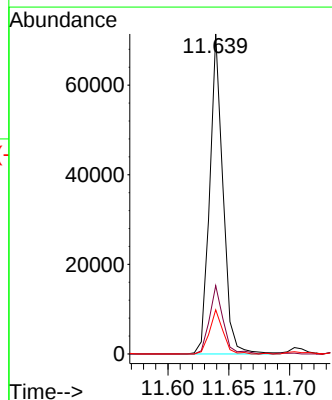
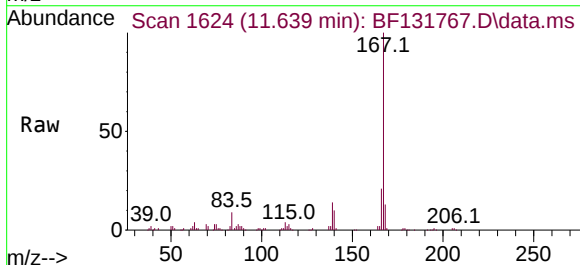
Instrument :
 BNA_F
 ClientSampleId :
 N40305

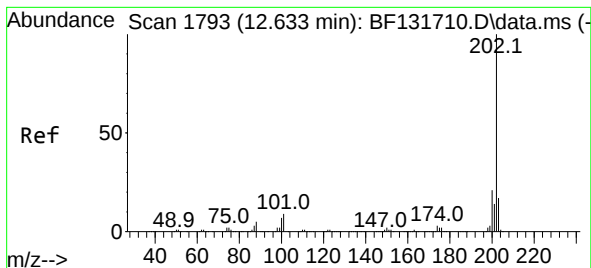
Tgt Ion:178 Resp: 97043
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.6 21.8
 179 16.1 12.2 18.4



#73
 Carbazole
 Concen: 3.588 ng
 RT: 11.639 min Scan# 1624
 Delta R.T. -0.012 min
 Lab File: BF131767.D
 Acq: 22 Dec 2022 02:40

Tgt Ion:167 Resp: 54169
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.1 25.7
 139 13.8 10.5 15.7





#75

Fluoranthene

Concen: 22.951 ng

RT: 12.627 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

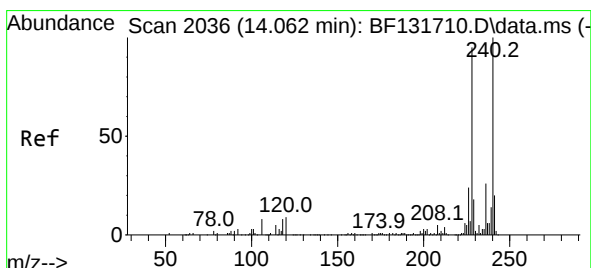
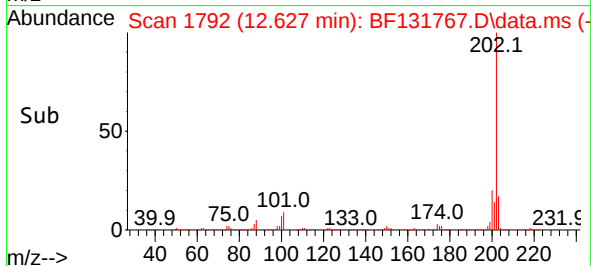
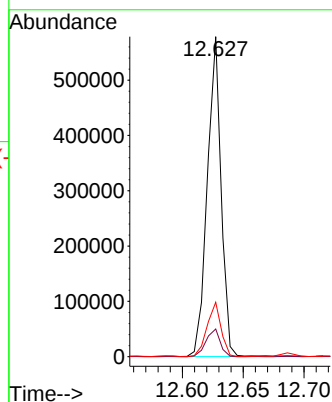
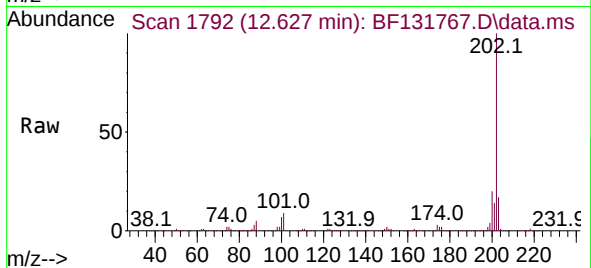
Tgt Ion:202 Resp: 455490

Ion Ratio Lower Upper

202 100

101 8.6 0.0 28.8

203 17.0 0.0 37.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2035

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

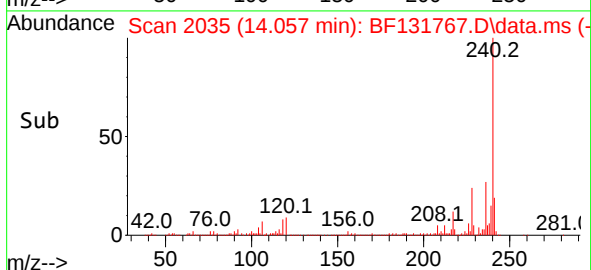
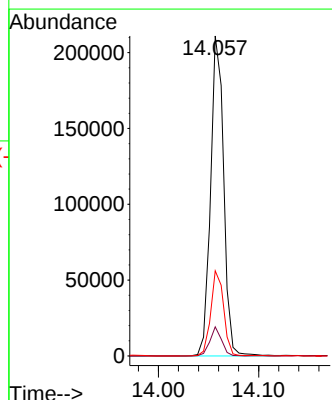
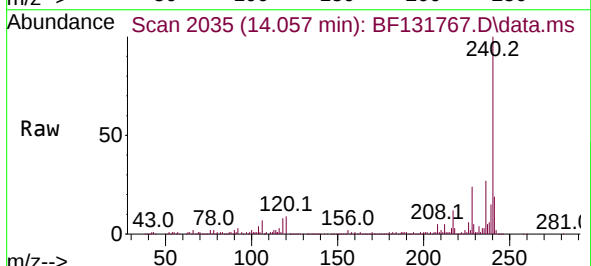
Tgt Ion:240 Resp: 192283

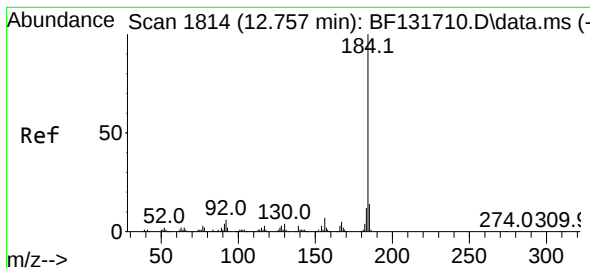
Ion Ratio Lower Upper

240 100

120 9.1 7.6 11.4

236 26.6 21.2 31.8





#77

Benzidine

Concen: 3.432 ng

RT: 12.998 min Scan# 1855

Delta R.T. 0.241 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

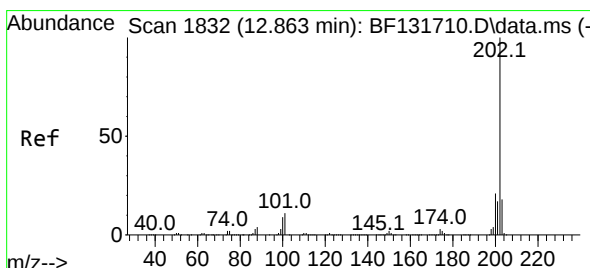
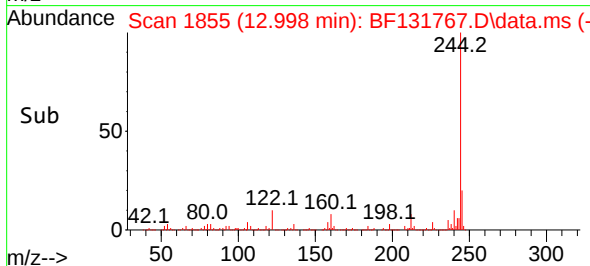
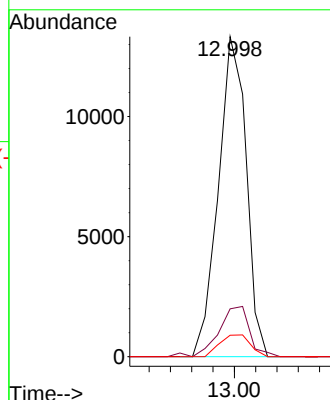
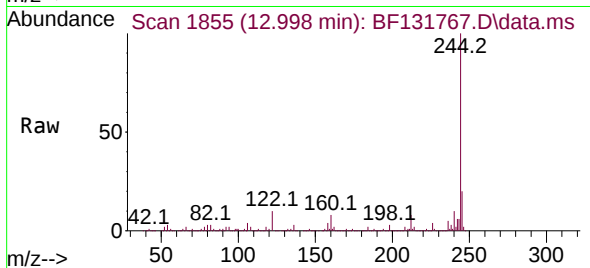
Tgt Ion:184 Resp: 12100

Ion Ratio Lower Upper

184 100

185 15.0 11.3 16.9

183 6.7 9.3 13.9#



#78

Pyrene

Concen: 20.539 ng

RT: 12.857 min Scan# 1831

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

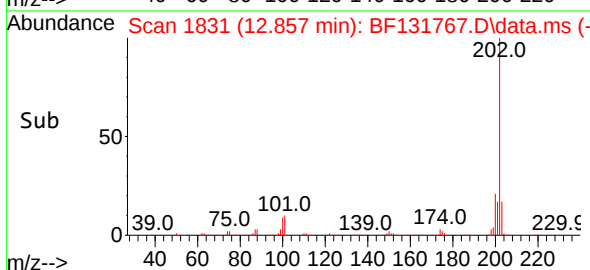
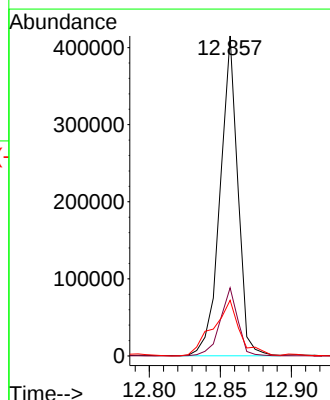
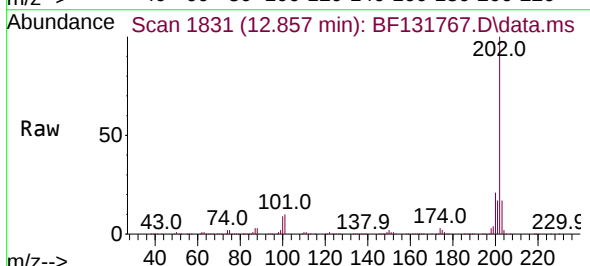
Tgt Ion:202 Resp: 359070

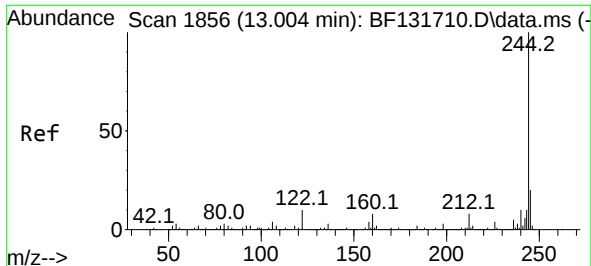
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.4 14.1 21.1

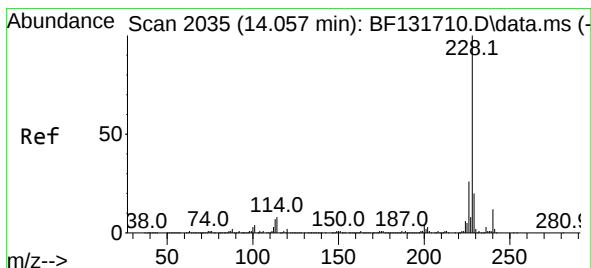
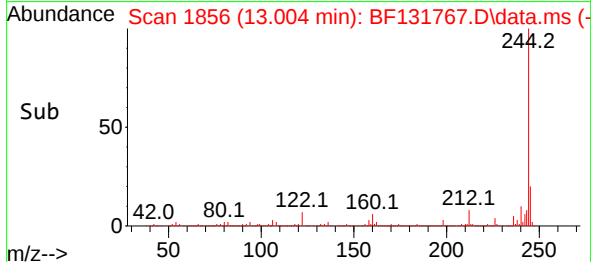
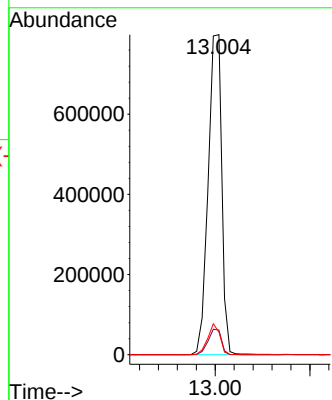
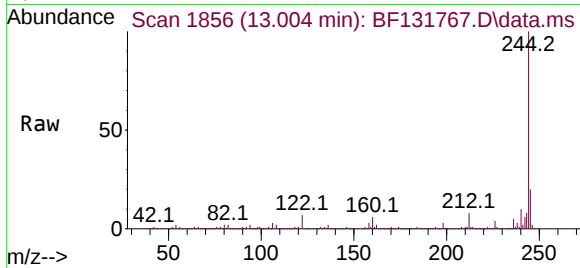




#79
 Terphenyl-d14
 Concen: 64.463 ng
 RT: 13.004 min Scan# 1856
 Delta R.T. 0.000 min
 Lab File: BF131767.D
 Acq: 22 Dec 2022 02:40

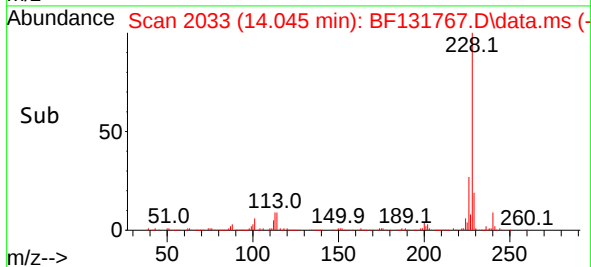
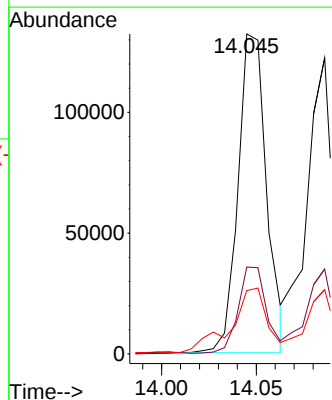
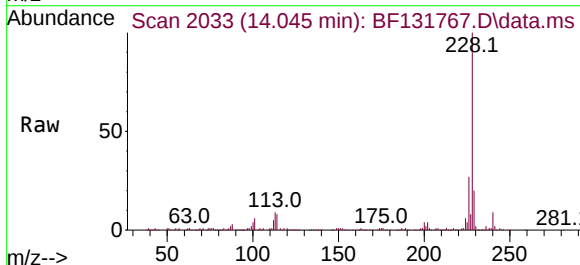
Instrument :
 BNA_F
 ClientSampleId :
 N40305

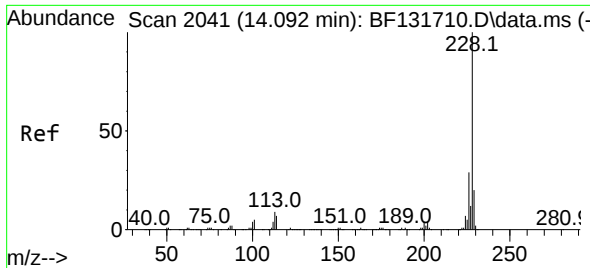
Tgt Ion:244 Resp: 795311
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.5 9.7
 122 7.1 7.7 11.5#



#81
 Benzo(a)anthracene
 Concen: 9.997 ng
 RT: 14.045 min Scan# 2033
 Delta R.T. -0.012 min
 Lab File: BF131767.D
 Acq: 22 Dec 2022 02:40

Tgt Ion:228 Resp: 138442
 Ion Ratio Lower Upper
 228 100
 226 27.2 21.0 31.4
 229 19.8 15.8 23.8





#83

Chrysene

Concen: 9.036 ng

RT: 14.086 min Scan# 2041

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

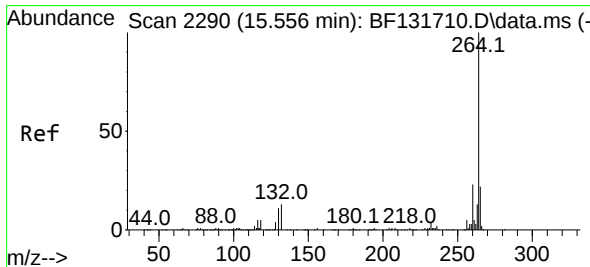
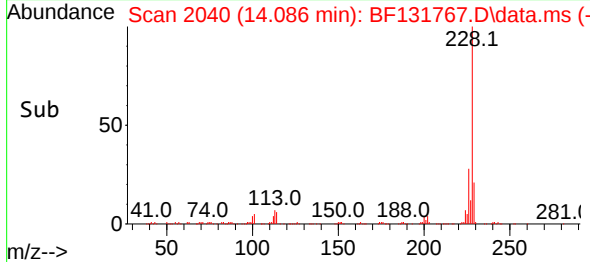
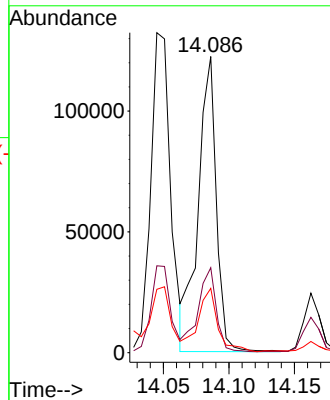
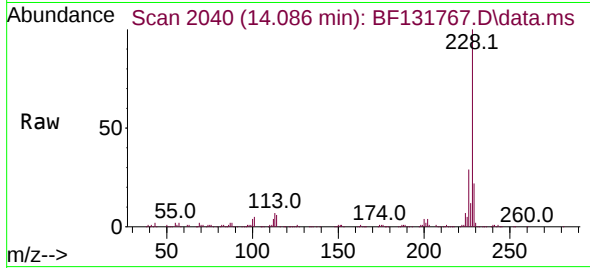
Tgt Ion:228 Resp: 118112

Ion Ratio Lower Upper

228 100

226 28.7 23.5 35.3

229 21.7 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2290

Delta R.T. 0.000 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

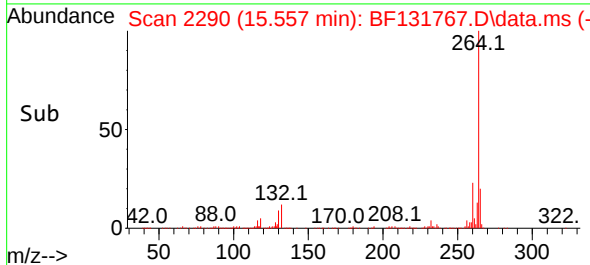
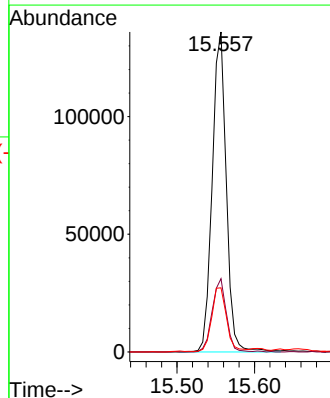
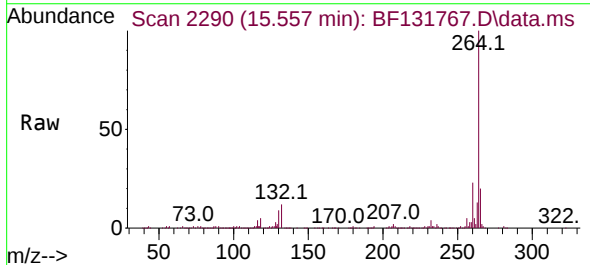
Tgt Ion:264 Resp: 171467

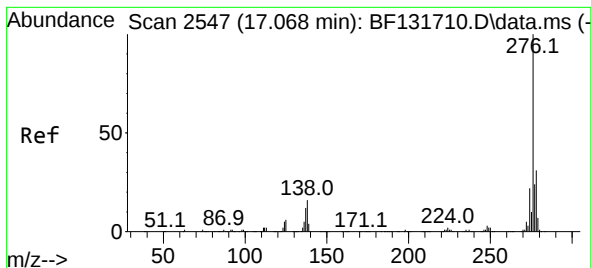
Ion Ratio Lower Upper

264 100

260 22.9 18.6 28.0

265 20.0 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.873 ng

RT: 17.051 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

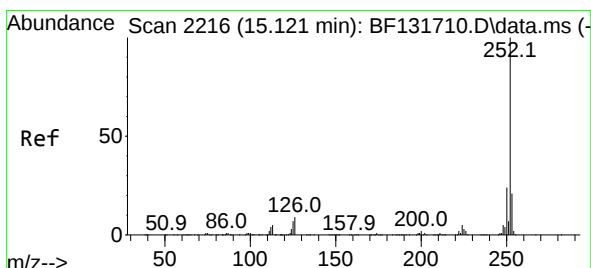
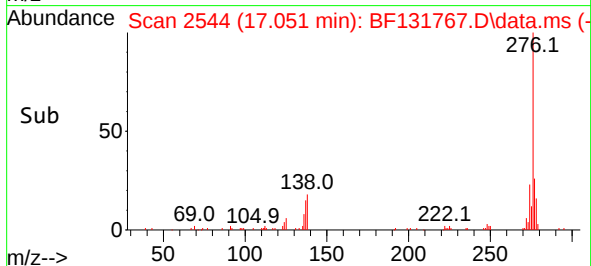
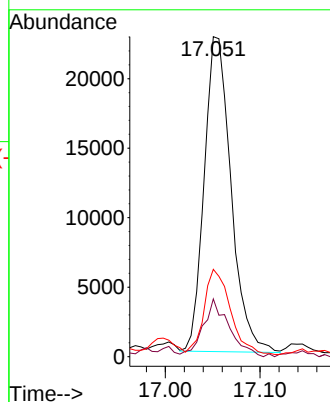
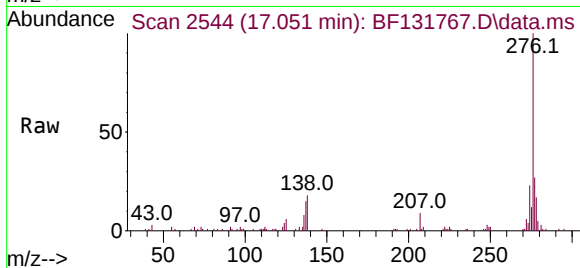
Tgt Ion:276 Resp: 44601

Ion Ratio Lower Upper

276 100

138 17.7 14.4 21.6

277 26.4 19.8 29.8



#88

Benzo(b)fluoranthene

Concen: 13.197 ng

RT: 15.115 min Scan# 2215

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

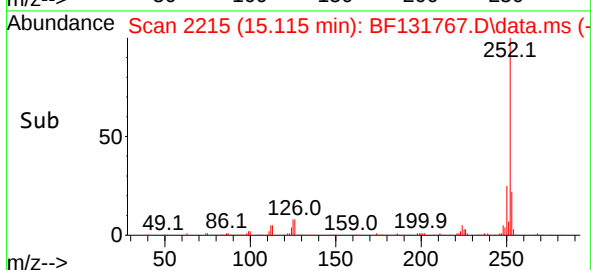
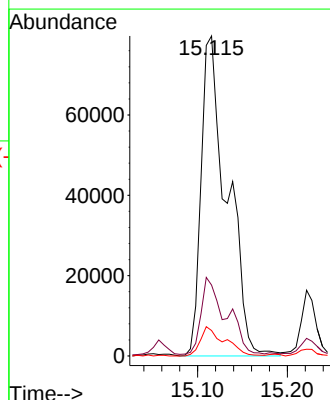
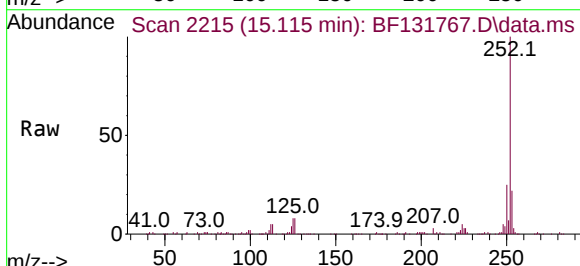
Tgt Ion:252 Resp: 160099

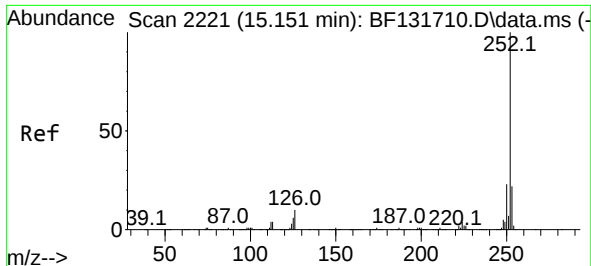
Ion Ratio Lower Upper

252 100

253 22.2 17.2 25.8

125 8.0 5.5 8.3





#89

Benzo(k)fluoranthene

Concen: 13.525 ng

RT: 15.115 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305

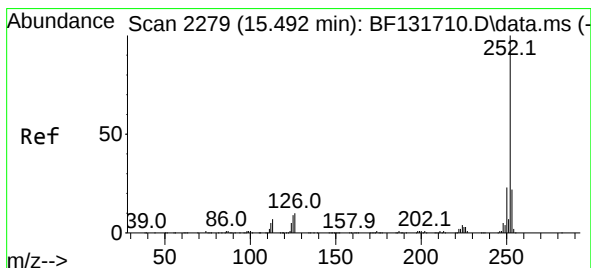
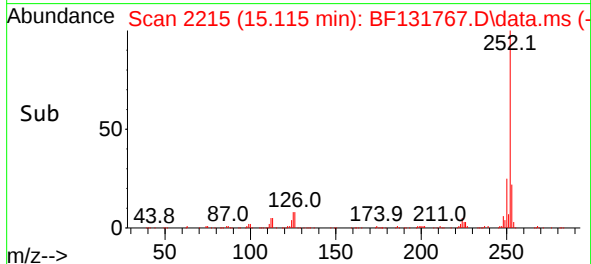
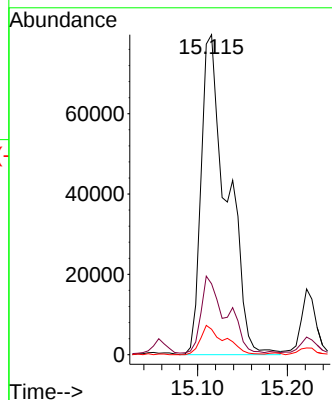
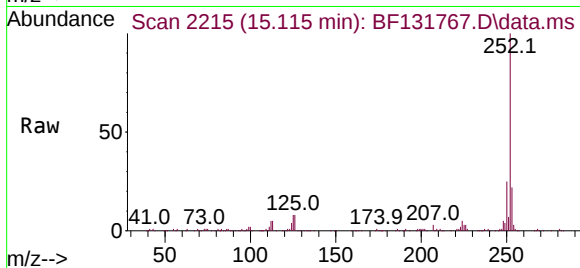
Tgt Ion:252 Resp: 160099

Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.8

125 8.0 5.2 7.8#



#90

Benzo(a)pyrene

Concen: 8.659 ng

RT: 15.486 min Scan# 2278

Delta R.T. -0.006 min

Lab File: BF131767.D

Acq: 22 Dec 2022 02:40

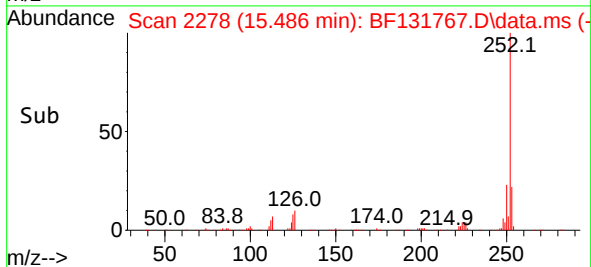
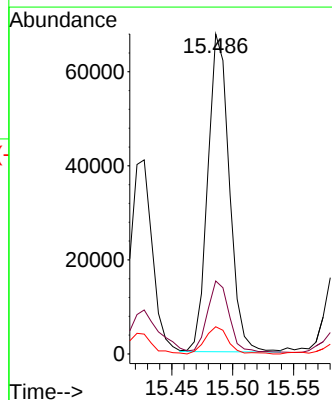
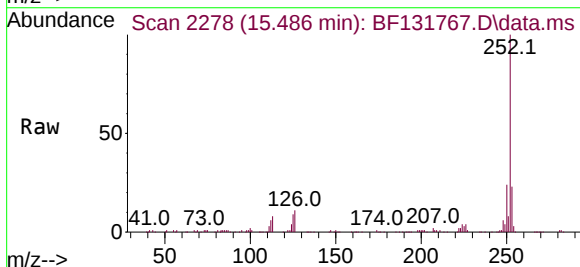
Tgt Ion:252 Resp: 83204

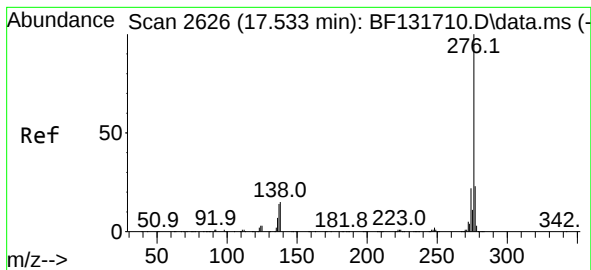
Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 8.5 7.0 10.4





#92

Benzo(g,h,i)perylene

Concen: 4.882 ng

RT: 17.509 min Scan# 20

Delta R.T. -0.023 min

Lab File: BF131767.D

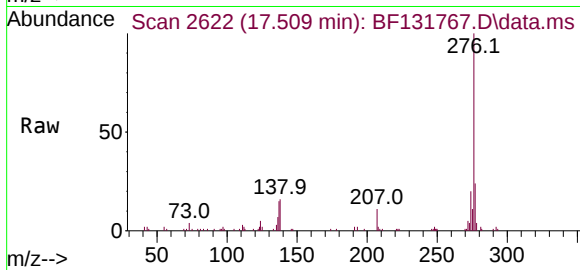
Acq: 22 Dec 2022 02:40

Instrument :

BNA_F

ClientSampleId :

N40305



Tgt Ion:276 Resp: 45925

Ion Ratio Lower Upper

276 100

277 24.5 18.3 27.5

138 16.4 12.3 18.5

