

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101723\
 Data File : BF135834.D
 Acq On : 18 Oct 2023 02:37
 Operator : CG\JU
 Sample : 04808-01DL 5X RE
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-100623DL

Quant Time: Oct 18 05:05:26 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

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

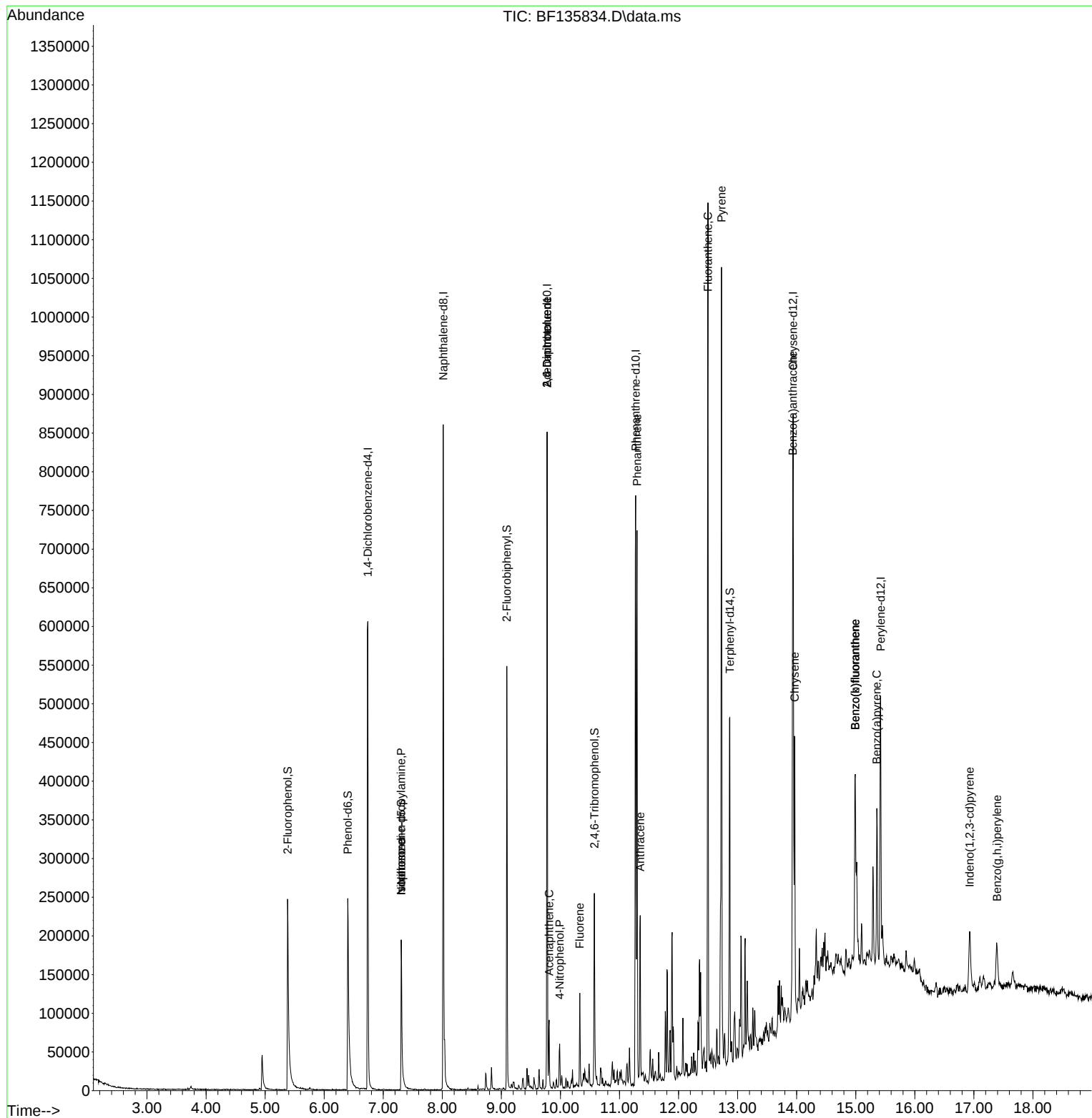
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	101656	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	359547	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	156841	20.000	ng	-0.01
64) Phenanthrene-d10	11.275	188	286953	20.000	ng	# 0.00
76) Chrysene-d12	13.939	240	203569	20.000	ng	-0.01
86) Perylene-d12	15.421	264	171811	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	111893	17.697	ng	0.00
7) Phenol-d6	6.398	99	137344	17.409	ng	0.00
23) Nitrobenzene-d5	7.304	82	77033	11.784	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	27244	18.102	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	162701	16.219	ng	-0.01
79) Terphenyl-d14	12.869	244	160865	14.634	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.304	70	10101	2.071	ng	# 69
25) Isophorone	7.304	82	77033	6.246	ng	# 66
51) 2,6-Dinitrotoluene	9.775	165	20951	9.202	ng	# 16
52) Acenaphthene	9.810	154	19054	2.219	ng	95
56) 4-Nitrophenol	9.986	139	8416	11.622	ng	# 7
57) 2,4-Dinitrotoluene	9.775	165	20951	7.233	ng	# 23
58) Fluorene	10.328	166	32311	3.185	ng	99
71) Phenanthrene	11.298	178	256035	18.626	ng	98
72) Anthracene	11.351	178	87898	6.171	ng	97
75) Fluoranthene	12.498	202	444623	29.143	ng	97
78) Pyrene	12.727	202	401995	24.850	ng	100
81) Benzo(a)anthracene	13.933	228	175997	13.162	ng	99
83) Chrysene	13.968	228	149628	11.553	ng	96
87) Indeno(1,2,3-cd)pyrene	16.927	276	52156	5.571	ng	95
88) Benzo(b)fluoranthene	14.992	252	192782	20.049	ng	99
89) Benzo(k)fluoranthene	14.992	252	192590	20.630	ng	97
90) Benzo(a)pyrene	15.357	252	101185	11.191	ng	98
92) Benzo(g,h,i)perylene	17.392	276	50460	6.401	ng	98

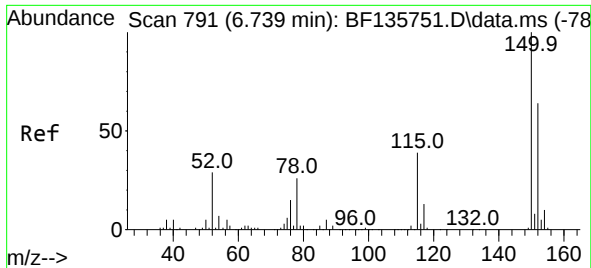
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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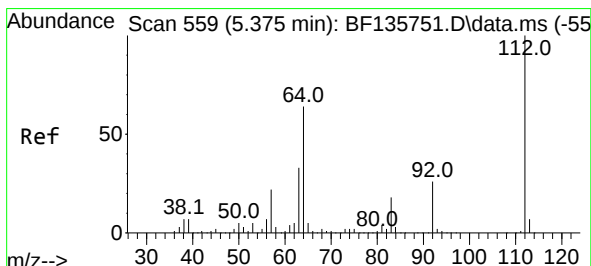
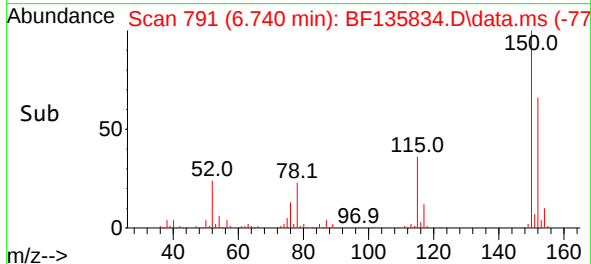
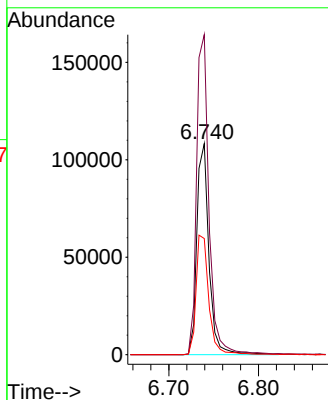
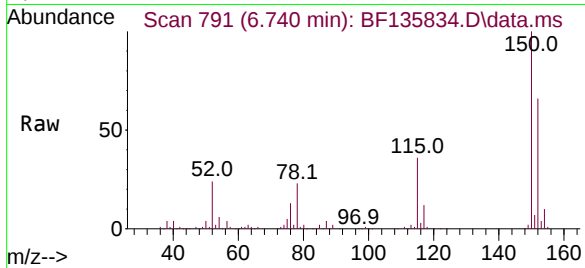




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 791
Delta R.T. -0.006 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

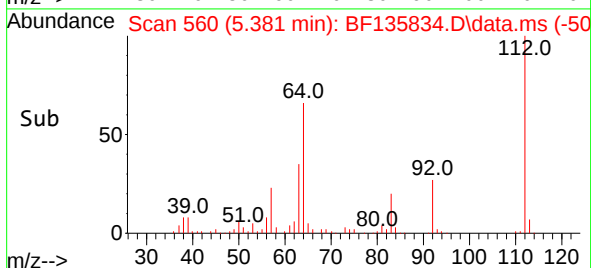
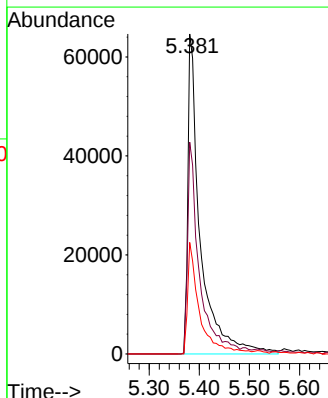
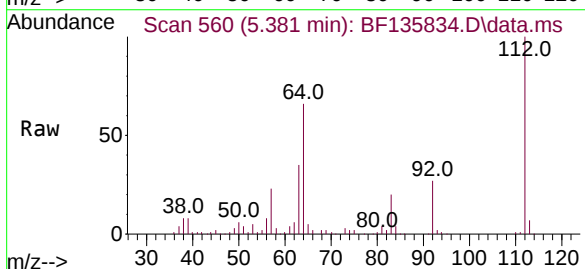
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SU-03-100623DL

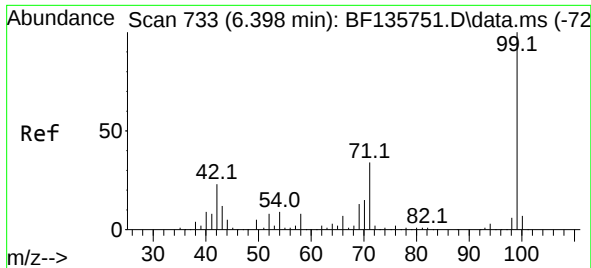
Tgt Ion:152 Resp: 101656
Ion Ratio Lower Upper
152 100
150 151.7 124.5 186.7
115 55.1 49.0 73.4



#5
2-Fluorophenol
Concen: 17.697 ng
RT: 5.381 min Scan# 560
Delta R.T. 0.006 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

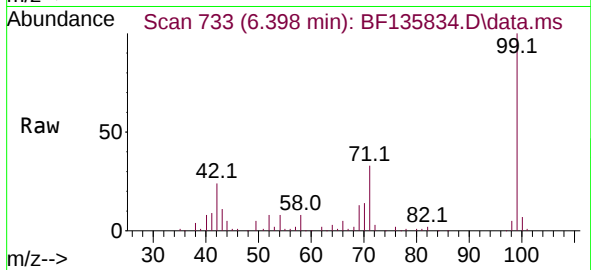
Tgt Ion:112 Resp: 111893
Ion Ratio Lower Upper
112 100
64 66.2 51.2 76.8
63 34.9 26.1 39.1



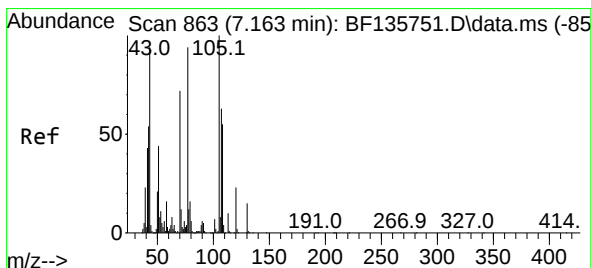
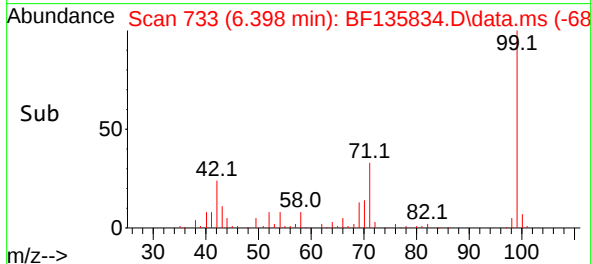
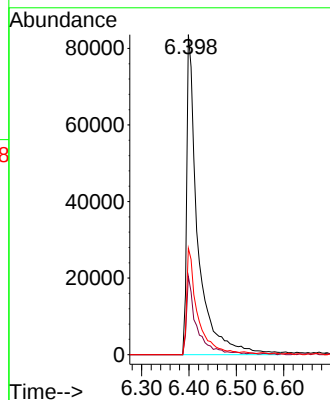


#7
Phenol-d6
Concen: 17.409 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Instrument :
BNA_F
ClientSampleId :
SU-03-100623DL

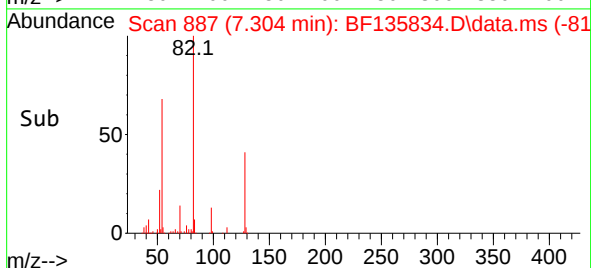
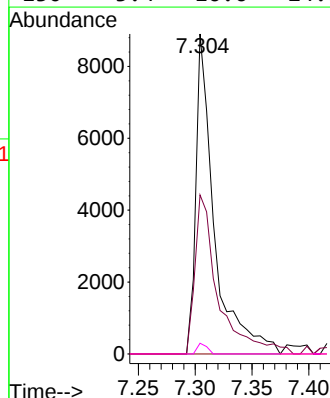
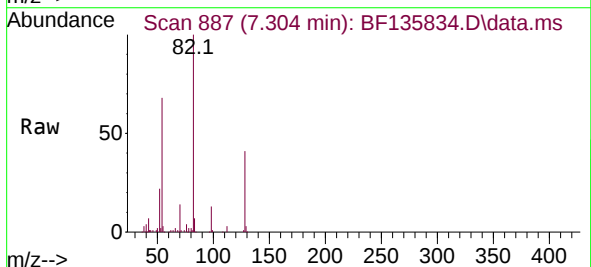


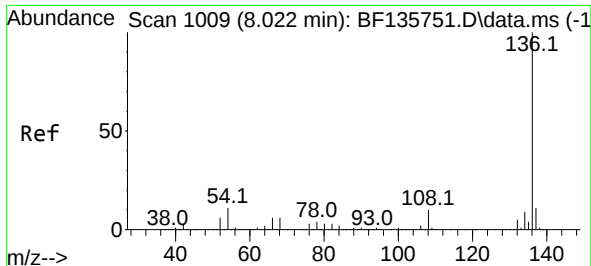
Tgt Ion:	99	Resp:	137344
Ion	Ratio	Lower	Upper
99	100		
42	24.4	18.4	27.6
71	33.3	27.2	40.8



#19
n-Nitroso-di-n-propylamine
Concen: 2.071 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.141 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Tgt Ion:	70	Resp:	10101
Ion	Ratio	Lower	Upper
70	100		
42	49.7	59.8	89.6#
101	0.0	7.4	11.2#
130	3.4	16.6	24.8#

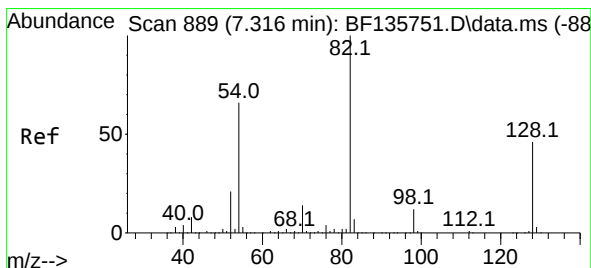
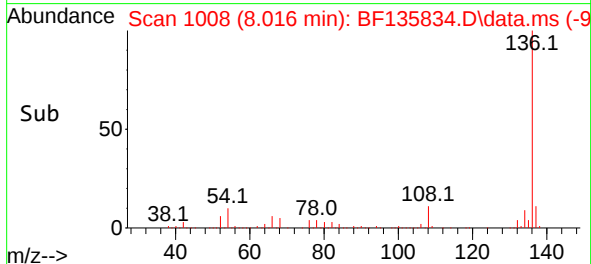
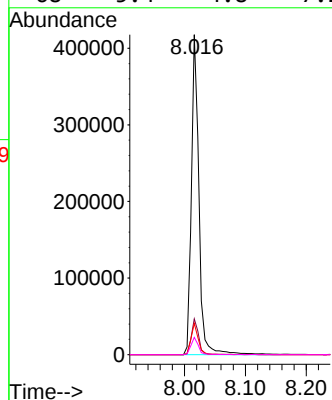
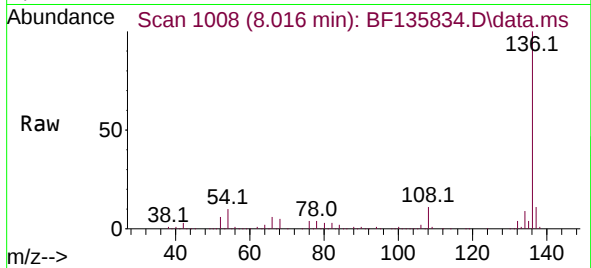




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

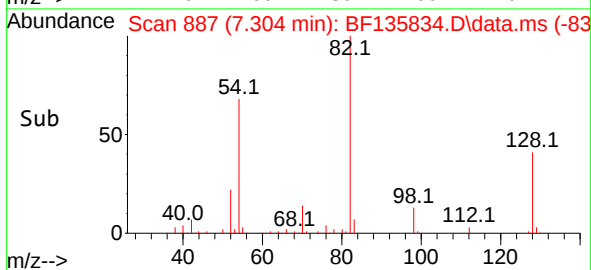
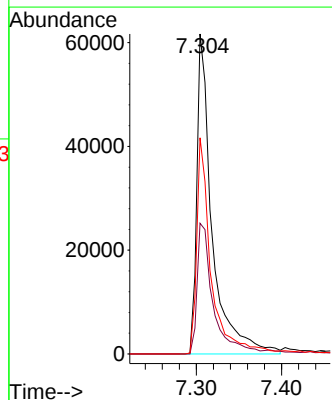
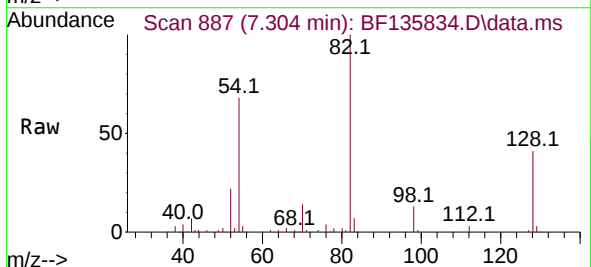
Instrument :
BNA_F
ClientSampleId :
SU-03-100623DL

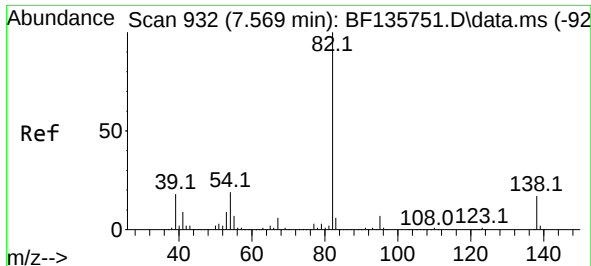
Tgt Ion:136 Resp: 359547
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 9.7 8.5 12.7
68 5.4 4.8 7.2



#23
Nitrobenzene-d5
Concen: 11.784 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.012 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Tgt Ion: 82 Resp: 77033
Ion Ratio Lower Upper
82 100
128 40.8 37.0 55.6
54 67.5 52.8 79.2

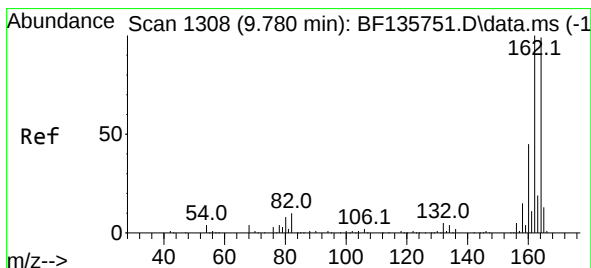
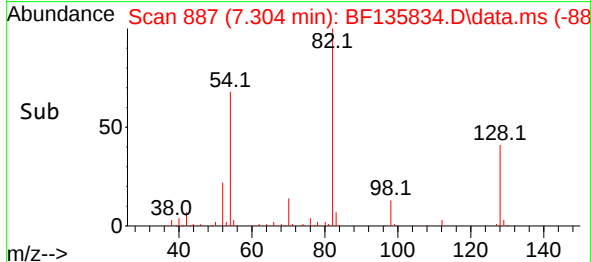
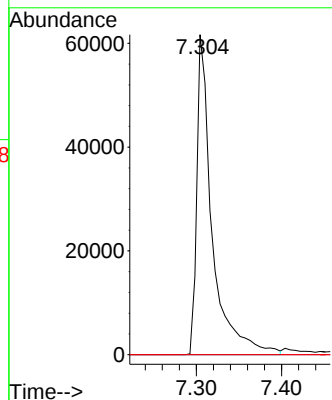
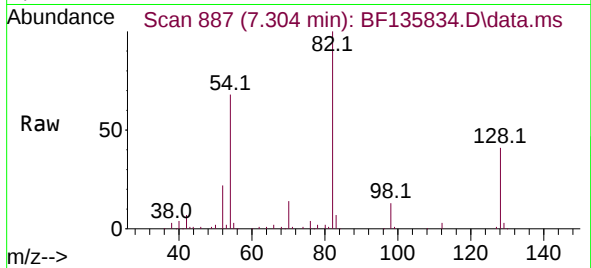




#25
Isophorone
Concen: 6.246 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.265 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

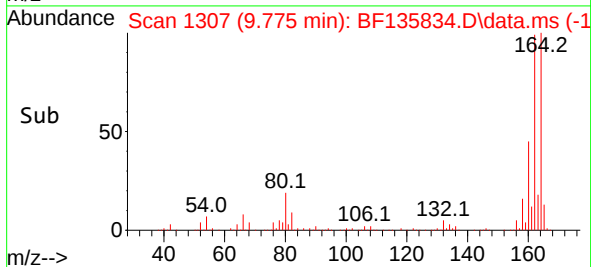
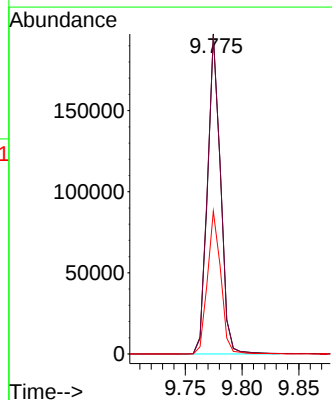
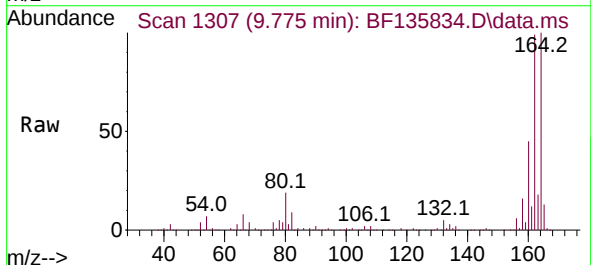
Instrument :
BNA_F
ClientSampleId :
SU-03-100623DL

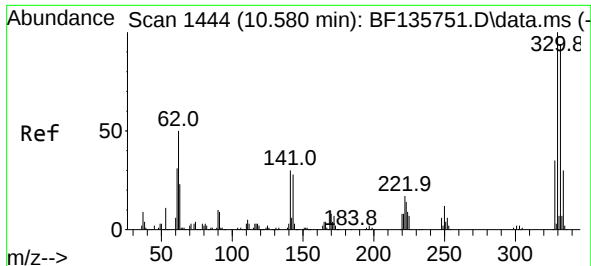
Tgt Ion: 82 Resp: 77033
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.9 20.9#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Tgt Ion:164 Resp: 156841
Ion Ratio Lower Upper
164 100
162 99.5 80.8 121.2
160 44.6 36.6 54.8





#42

2,4,6-Tribromophenol

Concen: 18.102 ng

RT: 10.575 min Scan# 1443

Delta R.T. -0.012 min

Lab File: BF135834.D

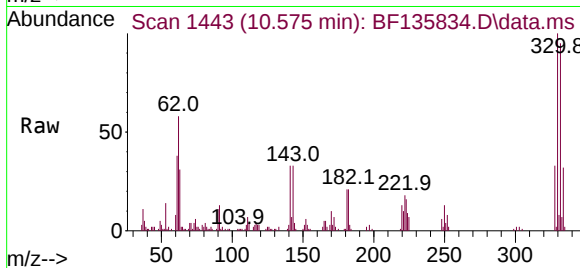
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Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL



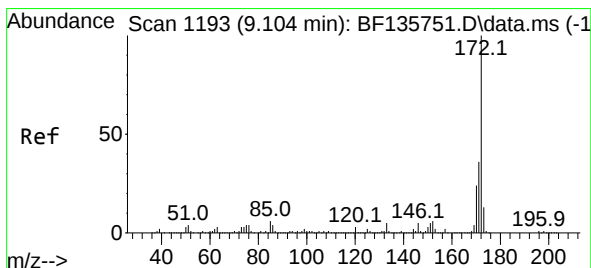
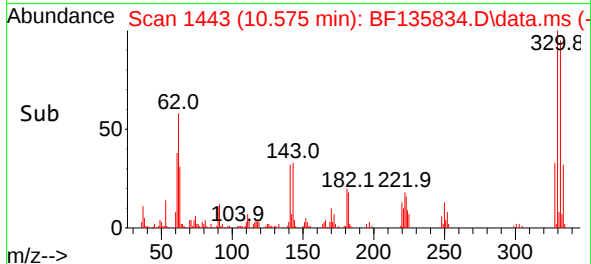
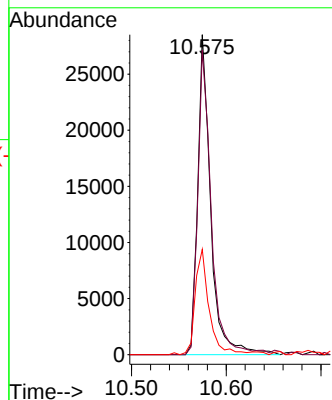
Tgt Ion:330 Resp: 27244

Ion Ratio Lower Upper

330 100

332 99.7 75.0 112.4

141 35.2 25.8 38.6



#45

2-Fluorobiphenyl

Concen: 16.219 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

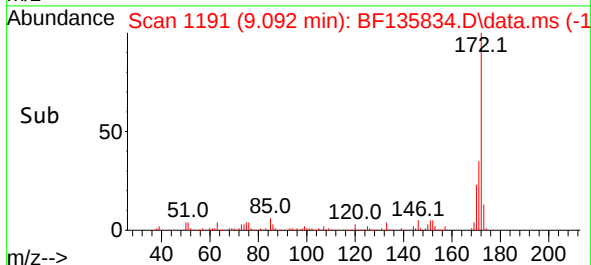
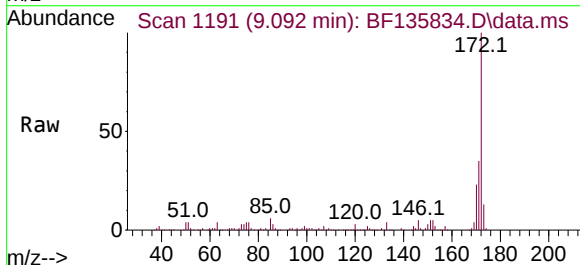
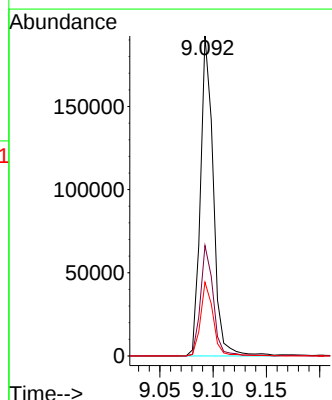
Tgt Ion:172 Resp: 162701

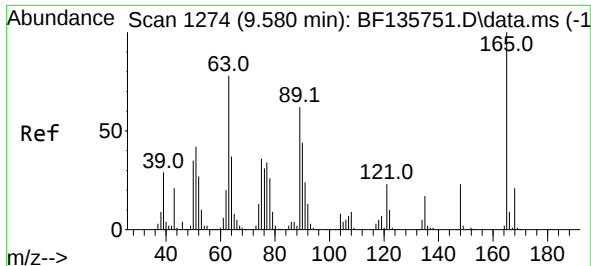
Ion Ratio Lower Upper

172 100

171 34.5 28.4 42.6

170 23.1 18.8 28.2

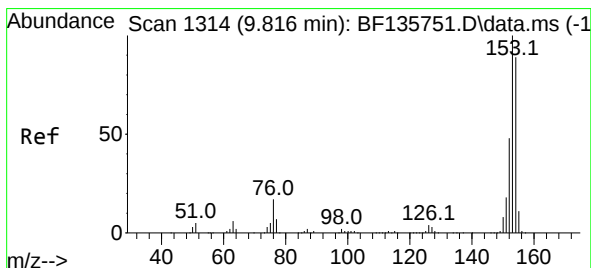
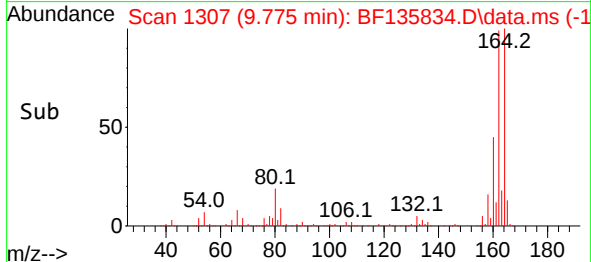
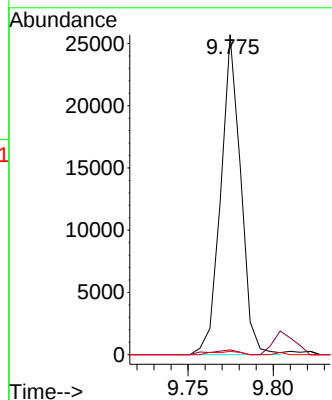
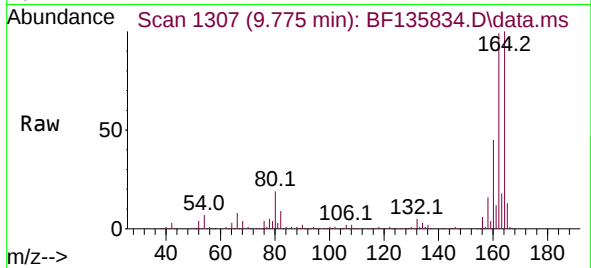




#51
2,6-Dinitrotoluene
Concen: 9.202 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.188 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

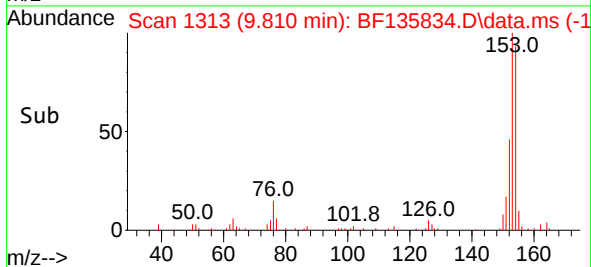
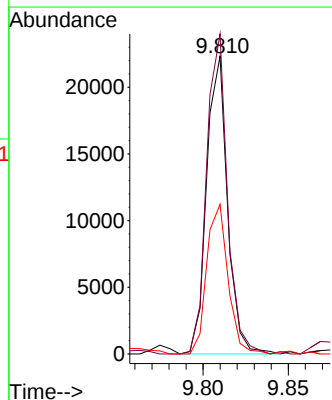
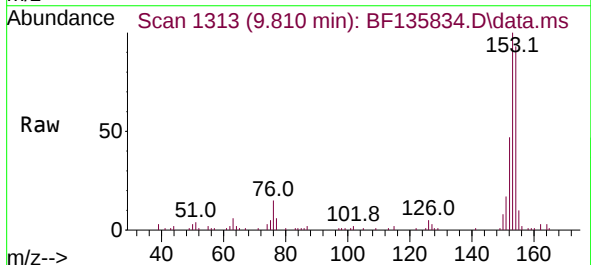
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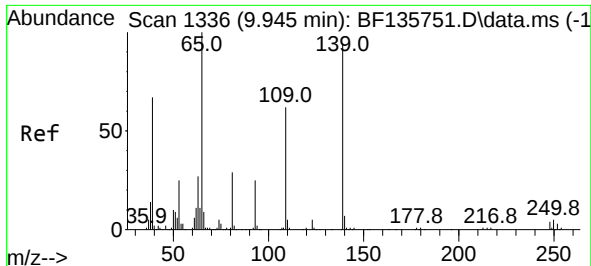
Tgt Ion:165 Resp: 20951
Ion Ratio Lower Upper
165 100
63 1.5 62.2 93.4#
89 1.1 49.6 74.4#



#52
Acenaphthene
Concen: 2.219 ng
RT: 9.810 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Tgt Ion:154 Resp: 19054
Ion Ratio Lower Upper
154 100
153 107.4 90.1 135.1
152 50.2 43.1 64.7

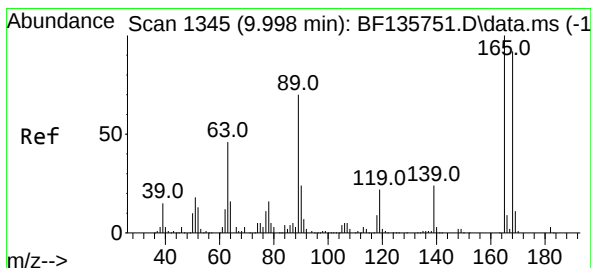
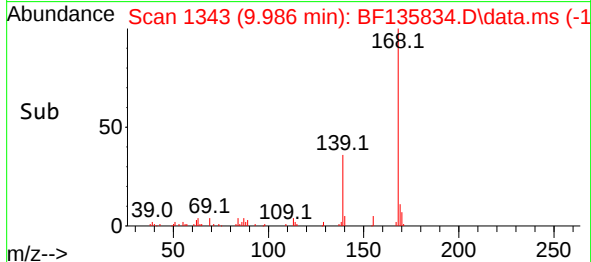
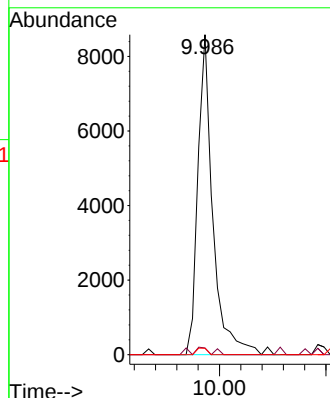
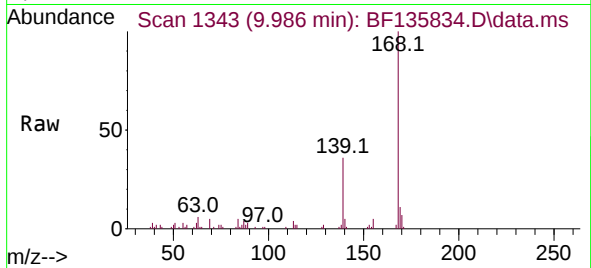




#56
4-Nitrophenol
Concen: 11.622 ng
RT: 9.986 min Scan# 11
Delta R.T. 0.041 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

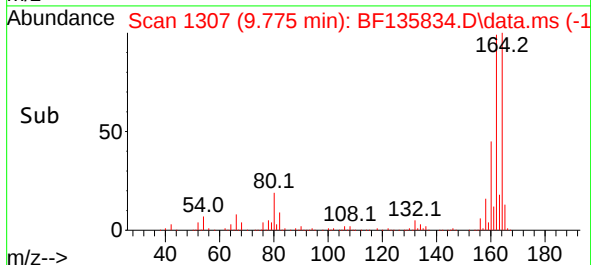
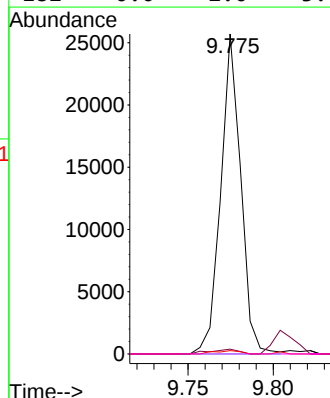
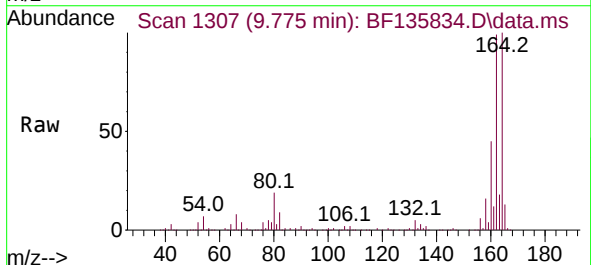
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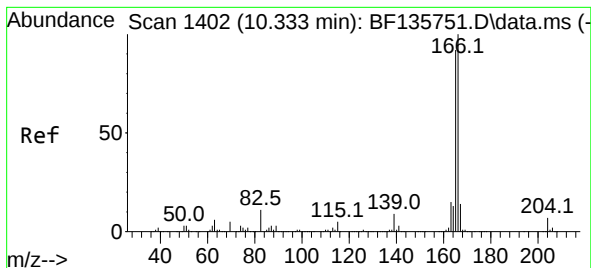
Tgt Ion:139 Resp: 8416
Ion Ratio Lower Upper
139 100
109 2.1 45.6 85.6#
65 2.0 87.5 127.5#



#57
2,4-Dinitrotoluene
Concen: 7.233 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.230 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Tgt Ion:165 Resp: 20951
Ion Ratio Lower Upper
165 100
63 1.5 39.0 58.4#
89 1.1 55.9 83.9#
182 0.0 2.0 3.0#





#58

Fluorene

Concen: 3.185 ng

RT: 10.328 min Scan# 1402

Delta R.T. -0.012 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

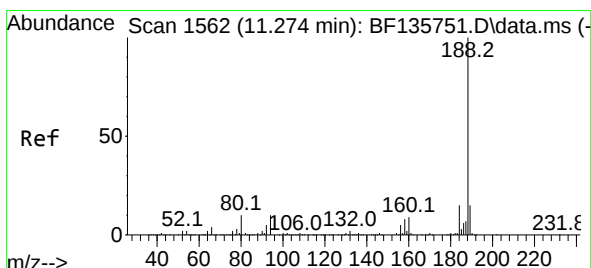
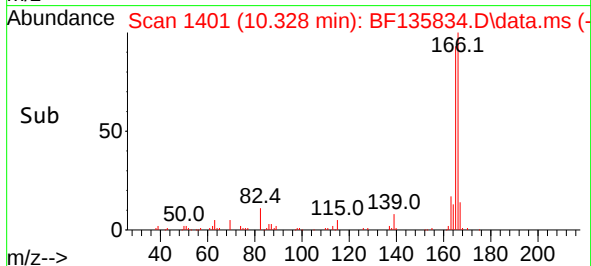
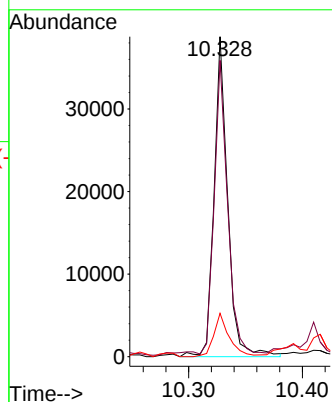
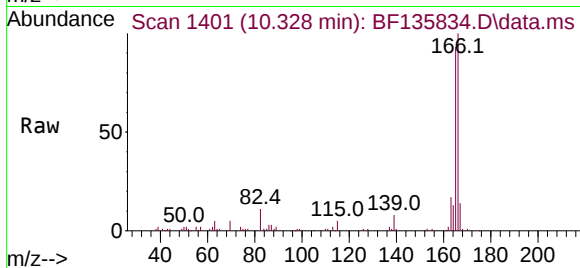
Tgt Ion:166 Resp: 32311

Ion Ratio Lower Upper

166 100

165 92.6 73.4 110.0

167 13.5 11.0 16.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.275 min Scan# 1562

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

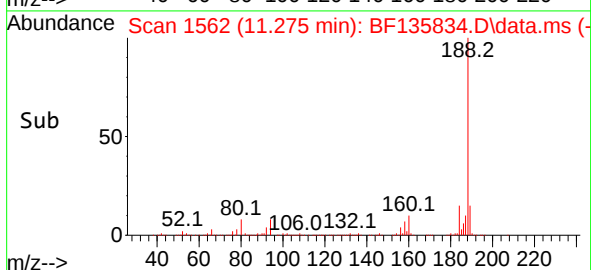
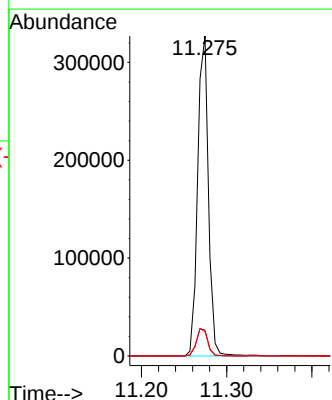
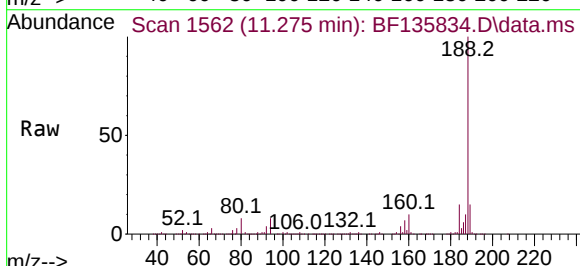
Tgt Ion:188 Resp: 286953

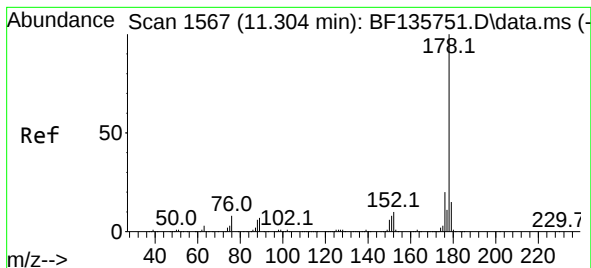
Ion Ratio Lower Upper

188 100

94 8.1 8.0 12.0

80 7.6 8.3 12.5#





#71

Phenanthrene

Concen: 18.626 ng

RT: 11.298 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

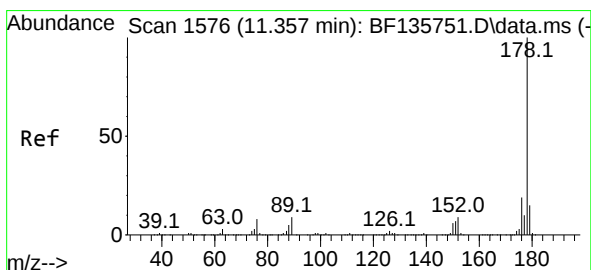
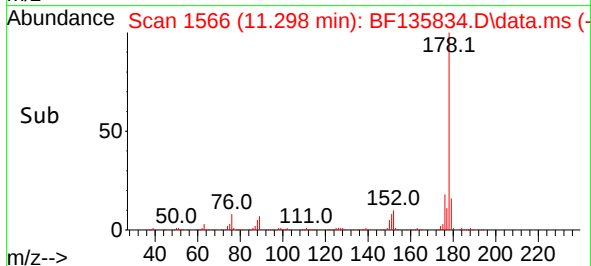
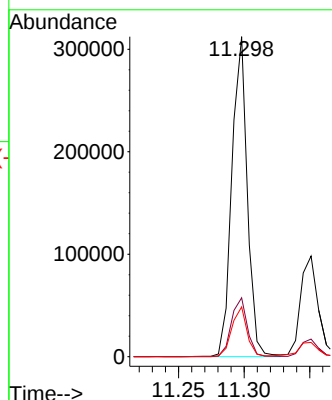
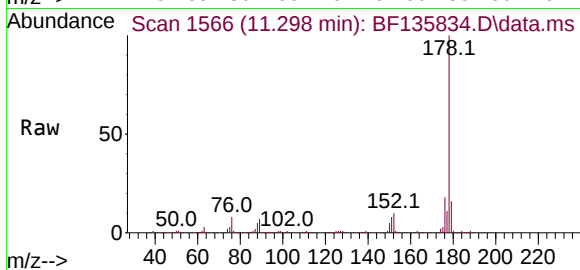
Tgt Ion:178 Resp: 256035

Ion Ratio Lower Upper

178 100

176 18.4 16.0 24.0

179 15.6 12.2 18.4



#72

Anthracene

Concen: 6.171 ng

RT: 11.351 min Scan# 1575

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

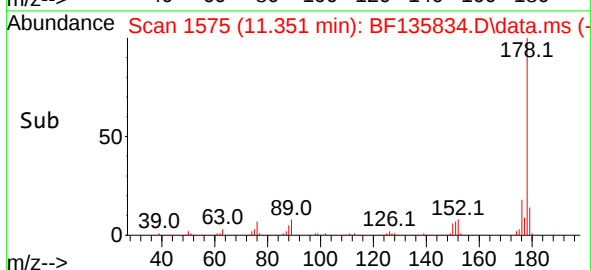
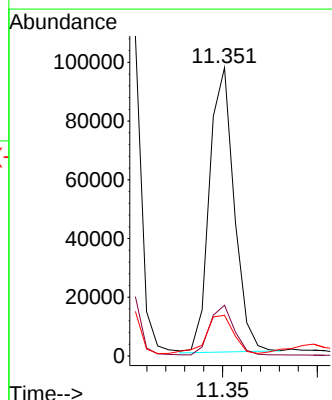
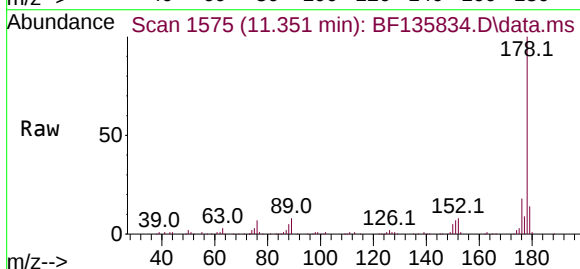
Tgt Ion:178 Resp: 87898

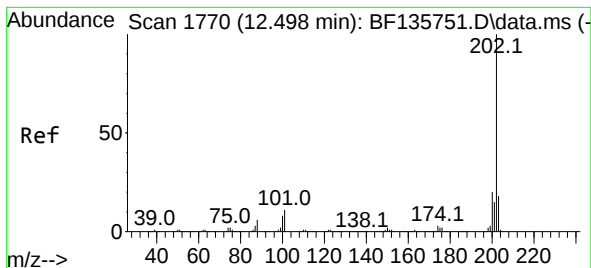
Ion Ratio Lower Upper

178 100

176 17.6 15.1 22.7

179 14.1 12.3 18.5





#75

Fluoranthene

Concen: 29.143 ng

RT: 12.498 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

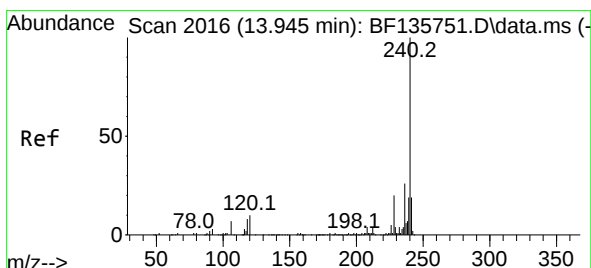
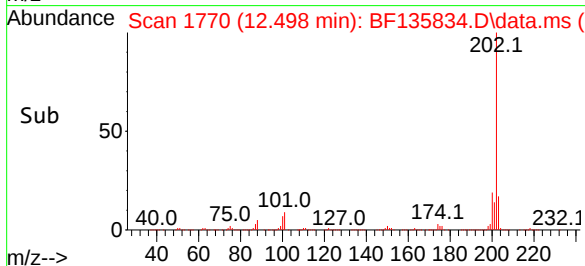
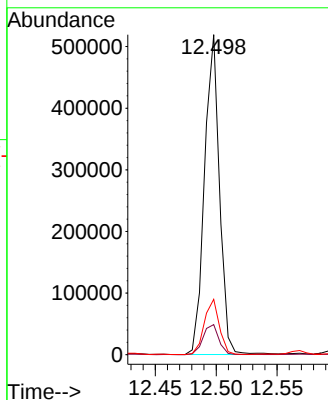
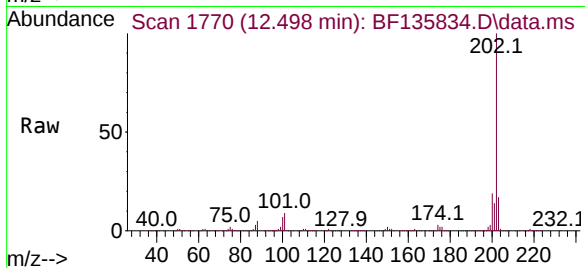
Tgt Ion:202 Resp: 444623

Ion Ratio Lower Upper

202 100

101 9.4 0.0 31.5

203 17.3 0.0 38.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

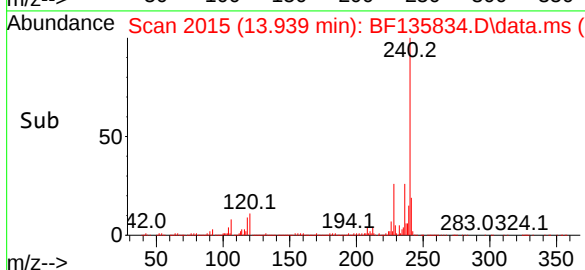
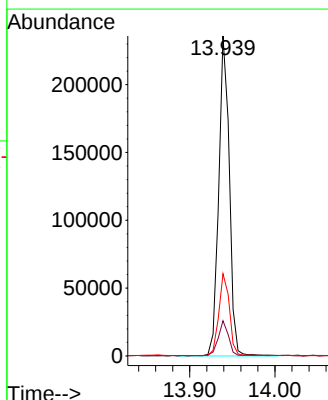
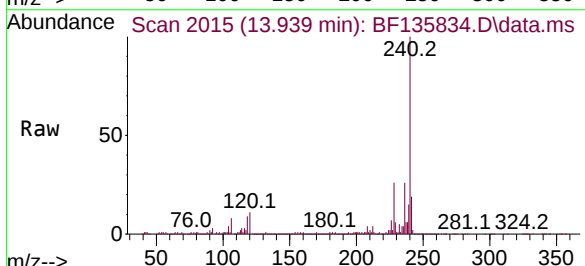
Tgt Ion:240 Resp: 203569

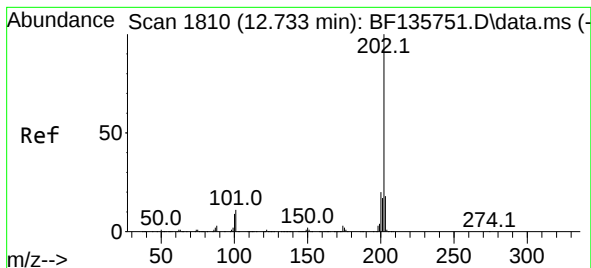
Ion Ratio Lower Upper

240 100

120 11.0 8.2 12.2

236 25.7 21.2 31.8





#78

Pyrene

Concen: 24.850 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

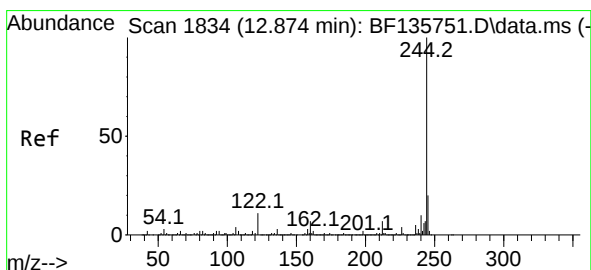
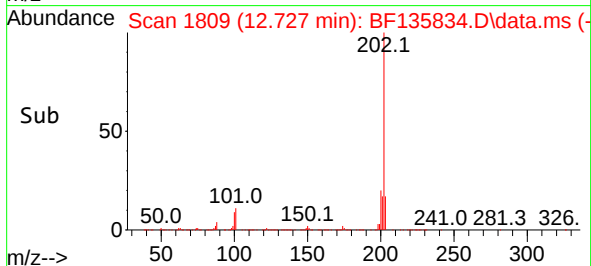
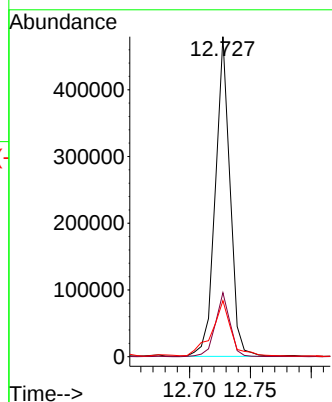
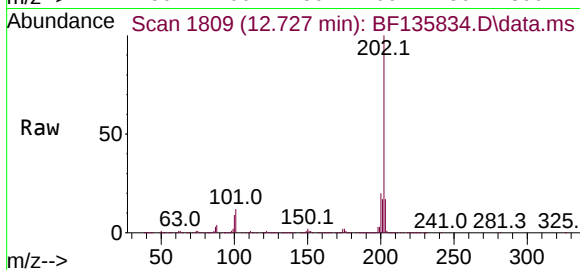
Tgt Ion:202 Resp: 401995

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

203 17.5 14.2 21.2



#79

Terphenyl-d14

Concen: 14.634 ng

RT: 12.869 min Scan# 1833

Delta R.T. -0.012 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

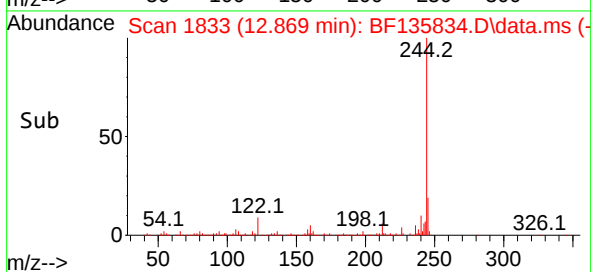
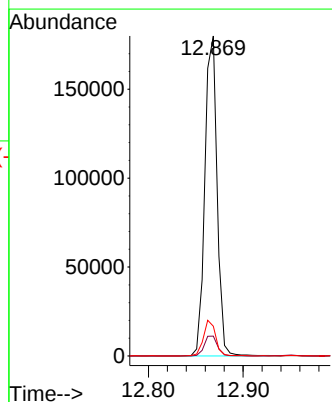
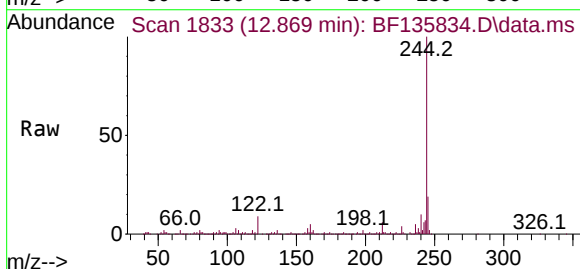
Tgt Ion:244 Resp: 160865

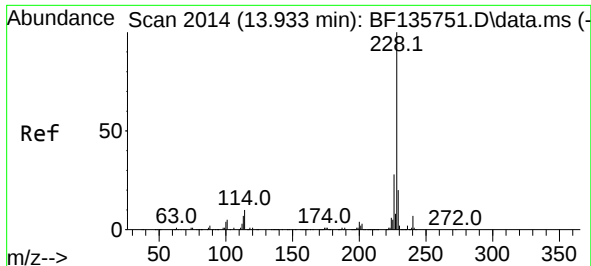
Ion Ratio Lower Upper

244 100

212 6.2 5.6 8.4

122 9.3 9.0 13.6

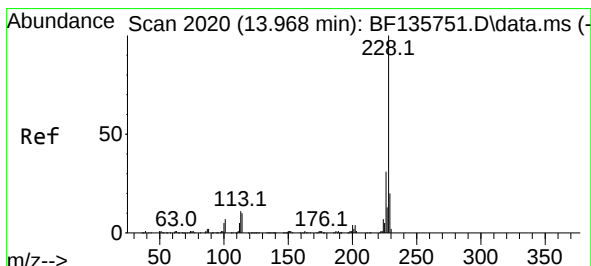
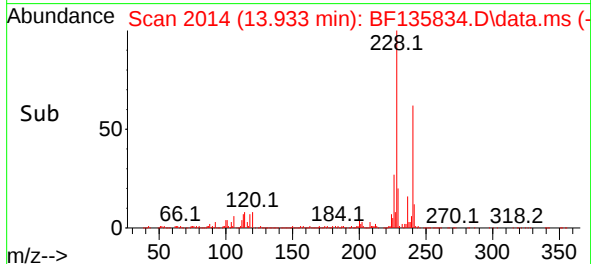
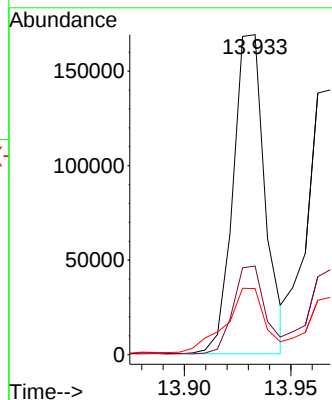
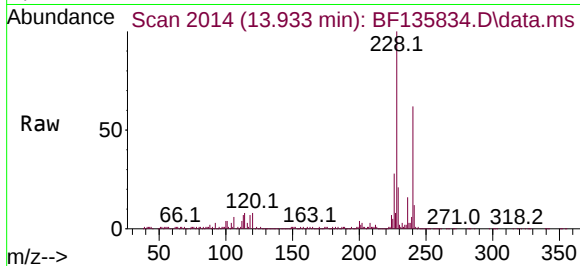




#81
Benzo(a)anthracene
Concen: 13.162 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.006 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

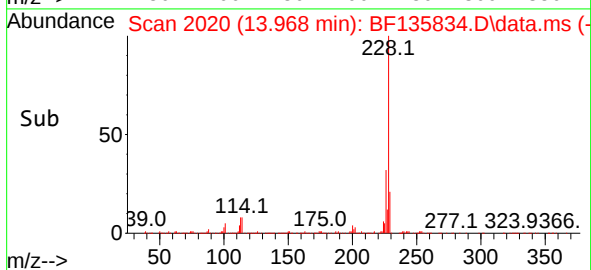
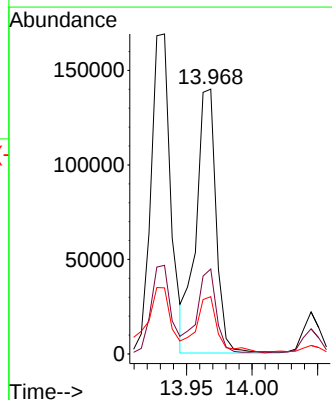
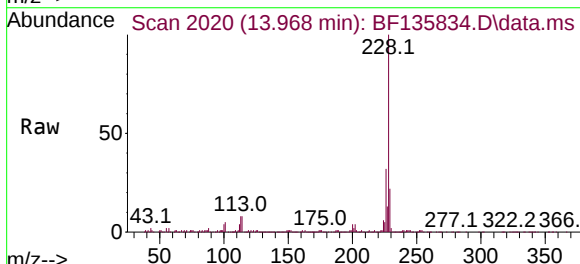
Instrument :
BNA_F
ClientSampleId :
SU-03-100623DL

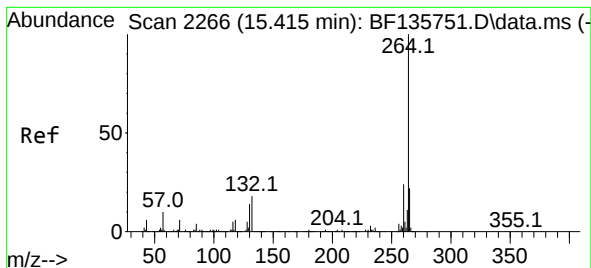
Tgt Ion:228 Resp: 175997
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 20.7 16.1 24.1



#83
Chrysene
Concen: 11.553 ng
RT: 13.968 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF135834.D
Acq: 18 Oct 2023 02:37

Tgt Ion:228 Resp: 149628
Ion Ratio Lower Upper
228 100
226 32.1 24.4 36.6
229 21.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

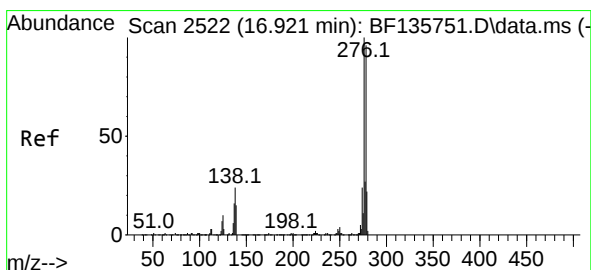
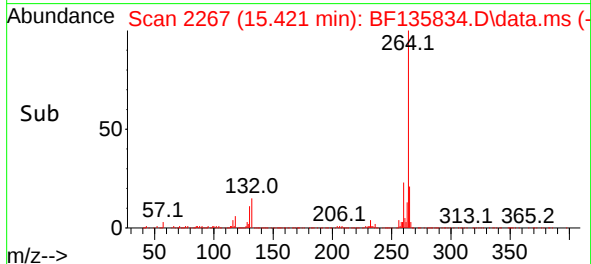
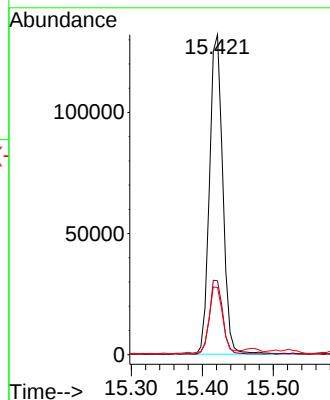
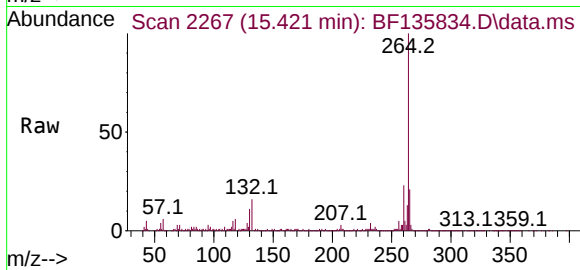
Tgt Ion:264 Resp: 171811

Ion Ratio Lower Upper

264 100

260 23.1 19.2 28.8

265 21.0 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.571 ng

RT: 16.927 min Scan# 2523

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

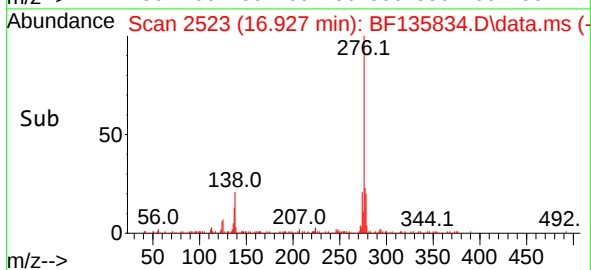
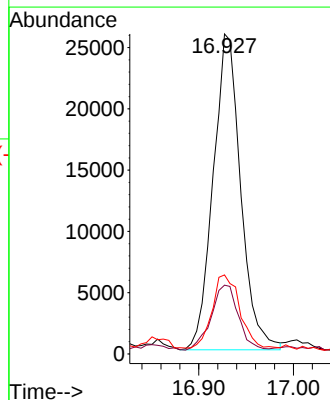
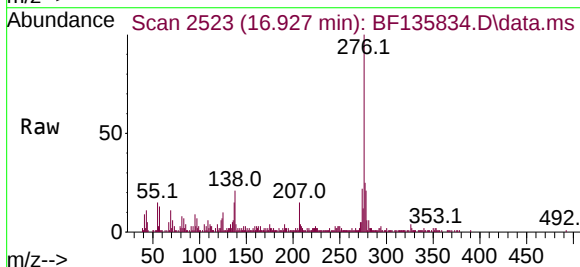
Tgt Ion:276 Resp: 52156

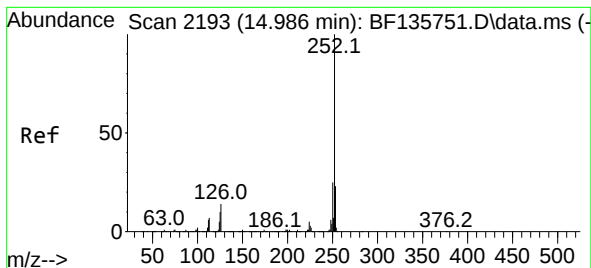
Ion Ratio Lower Upper

276 100

138 20.4 19.8 29.6

277 24.1 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 20.049 ng

RT: 14.992 min Scan# 2194

Delta R.T. -0.000 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

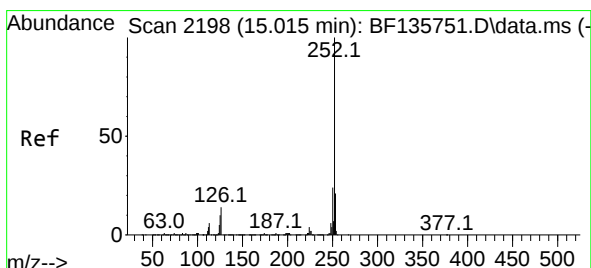
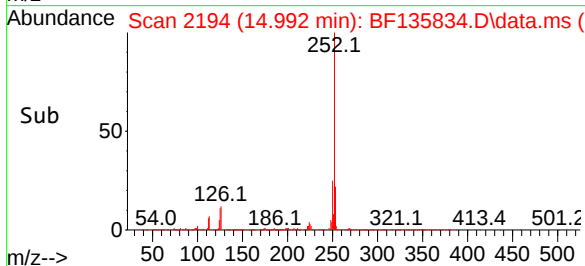
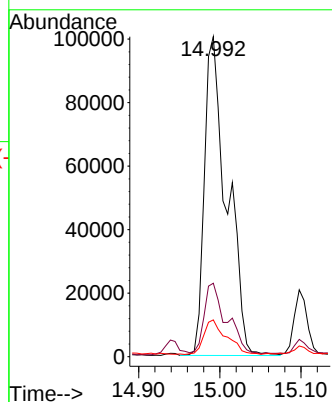
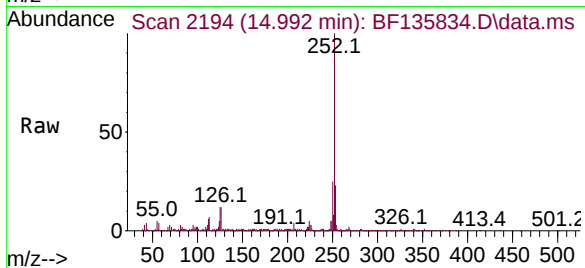
Tgt Ion:252 Resp: 192782

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

125 11.5 8.2 12.2



#89

Benzo(k)fluoranthene

Concen: 20.630 ng

RT: 14.992 min Scan# 2194

Delta R.T. -0.030 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

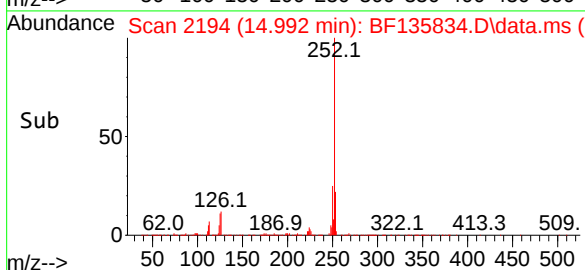
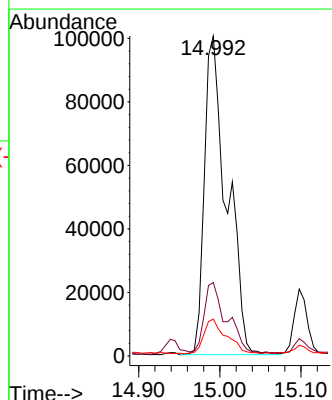
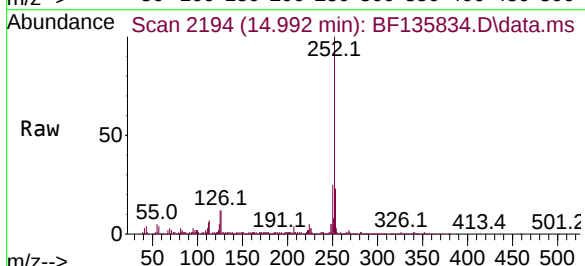
Tgt Ion:252 Resp: 192590

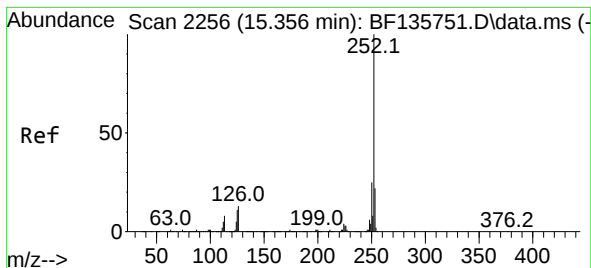
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.0

125 11.5 8.3 12.5





#90

Benzo(a)pyrene

Concen: 11.191 ng

RT: 15.357 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Instrument :

BNA_F

ClientSampleId :

SU-03-100623DL

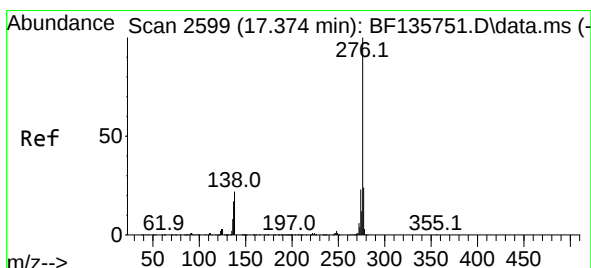
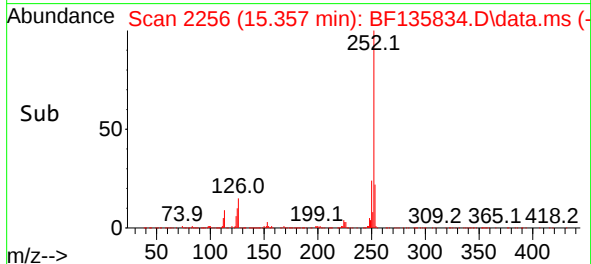
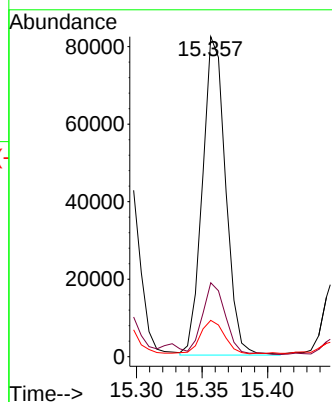
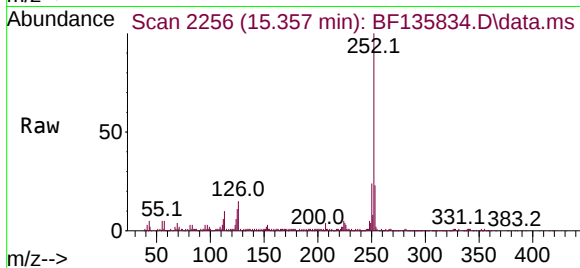
Tgt Ion:252 Resp: 101185

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

125 11.3 8.8 13.2



#92

Benzo(g,h,i)perylene

Concen: 6.401 ng

RT: 17.392 min Scan# 2602

Delta R.T. 0.006 min

Lab File: BF135834.D

Acq: 18 Oct 2023 02:37

Tgt Ion:276 Resp: 50460

Ion Ratio Lower Upper

276 100

277 25.7 19.4 29.2

138 21.8 17.3 25.9

