

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030123\
 Data File : BF132601.D
 Acq On : 01 Mar 2023 20:26
 Operator : CG\JU
 Sample : 01726-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-022723

Quant Time: Mar 02 03:21:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 24 23:17:30 2023
 Response via : Initial Calibration

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

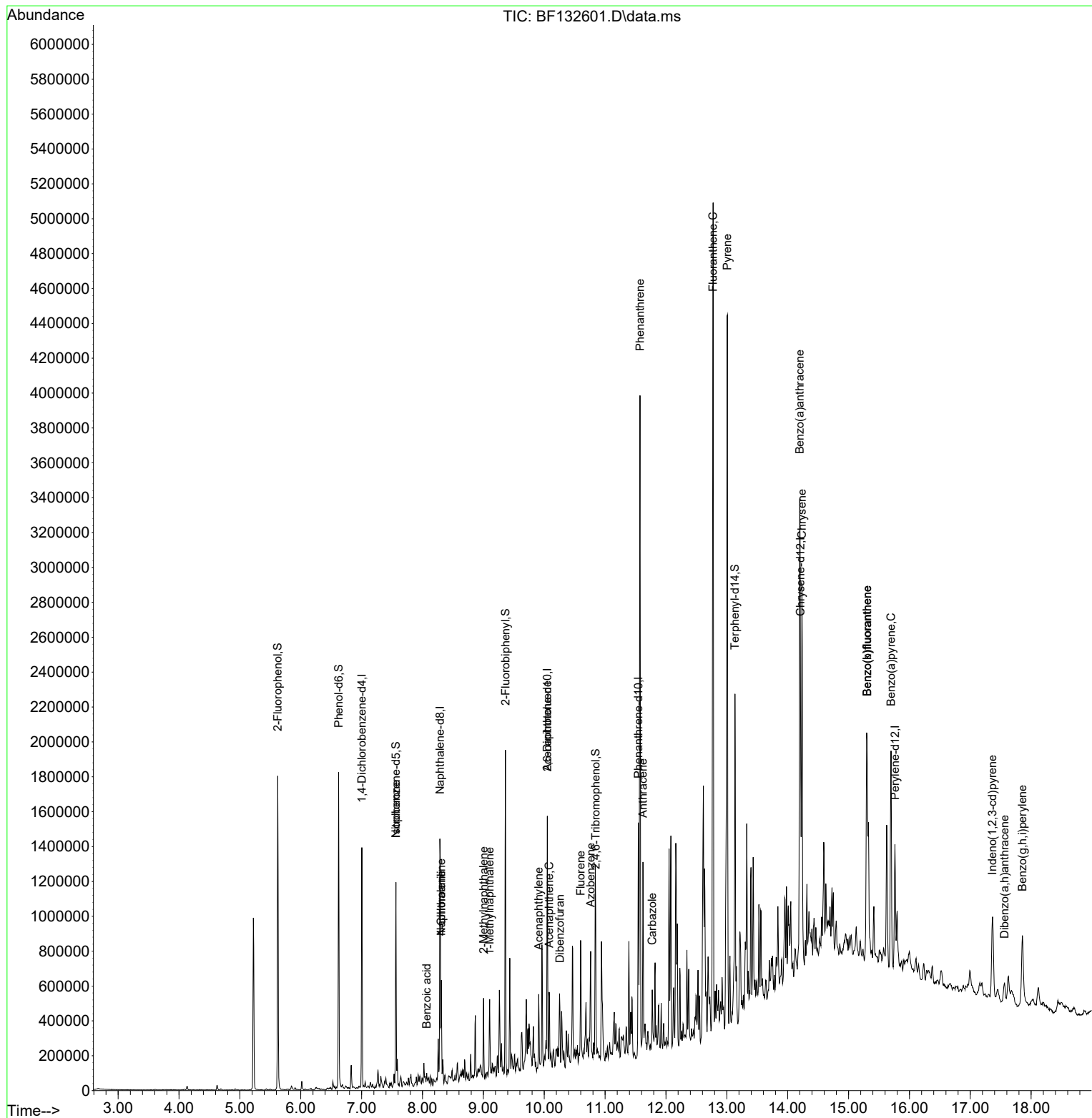
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.004	152	184064	20.000	ng	0.00
21) Naphthalene-d8	8.287	136	592581	20.000	ng	0.00
39) Acenaphthene-d10	10.051	164	266902	20.000	ng	0.00
64) Phenanthrene-d10	11.545	188	521339	20.000	ng	0.00
76) Chrysene-d12	14.210	240	397075	20.000	ng	0.00
86) Perylene-d12	15.762	264	316452	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.622	112	507431	44.742	ng	0.00
7) Phenol-d6	6.622	99	590337	39.884	ng	-0.01
23) Nitrobenzene-d5	7.563	82	335985	26.900	ng	0.00
42) 2,4,6-Tribromophenol	10.845	330	113863	39.502	ng	0.00
45) 2-Fluorobiphenyl	9.363	172	509134	29.046	ng	0.00
79) Terphenyl-d14	13.133	244	635488	27.059	ng	0.00
Target Compounds						Qvalue
25) Isophorone	7.563	82	335112	13.994	ng	# 67
31) Naphthalene	8.310	128	205121	6.762	ng	98
32) Benzoic acid	8.069	122	1677	4.047	ng	# 41
33) 4-Chloroaniline	8.310	127	26330	2.025	ng	# 33
37) 2-Methylnaphthalene	9.004	142	115209	5.573	ng	100
38) 1-Methylnaphthalene	9.104	142	92859	4.806	ng	99
49) Acenaphthylene	9.910	152	128498	5.041	ng	97
51) 2,6-Dinitrotoluene	10.051	165	43422	9.811	ng	# 23
52) Acenaphthene	10.081	154	79846	4.933	ng	98
55) Dibenzofuran	10.257	168	93534	3.964	ng	94
58) Fluorene	10.598	166	172112	9.536	ng	97
63) Azobenzene	10.763	77	89890	4.472	ng	# 1
71) Phenanthrene	11.575	178	1375985	50.948	ng	98
72) Anthracene	11.622	178	388263	13.960	ng	99
73) Carbazole	11.775	167	103827	4.141	ng	99
75) Fluoranthene	12.774	202	2000030	67.740	ng	98
78) Pyrene	13.010	202	1954858	54.150	ng	99
81) Benzo(a)anthracene	14.198	228	1050808	35.369	ng	95
83) Chrysene	14.233	228	903484	32.520	ng	98
87) Indeno(1,2,3-cd)pyrene	17.362	276	353253	17.036	ng	98
88) Benzo(b)fluoranthene	15.304	252	1208096	56.967	ng	# 96
89) Benzo(k)fluoranthene	15.304	252	1208096	58.207	ng	# 97
90) Benzo(a)pyrene	15.698	252	642550	32.373	ng	96
91) Dibenzo(a,h)anthracene	17.562	278	79344	4.696	ng	96
92) Benzo(g,h,i)perylene	17.856	276	352366	19.449	ng	98

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

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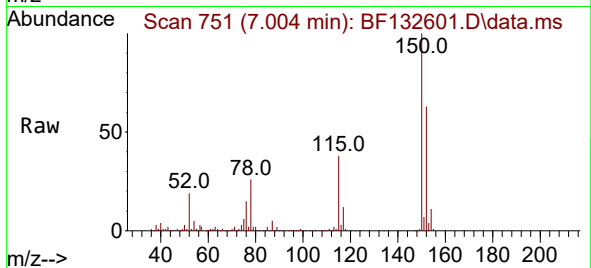
Quant Time: Mar 02 03:21:22 2023
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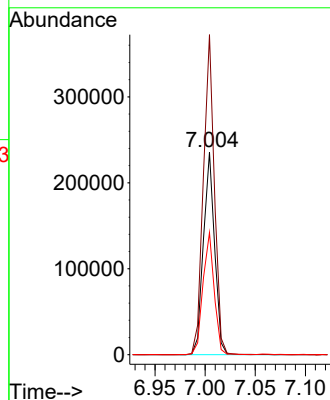
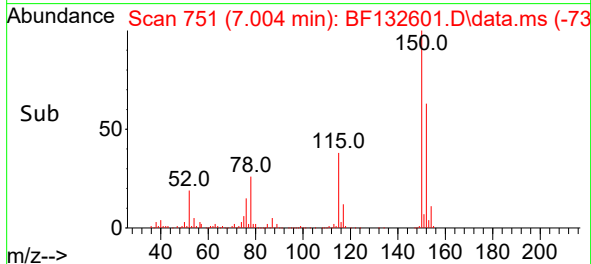


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.004 min Scan# 710
Delta R.T. -0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

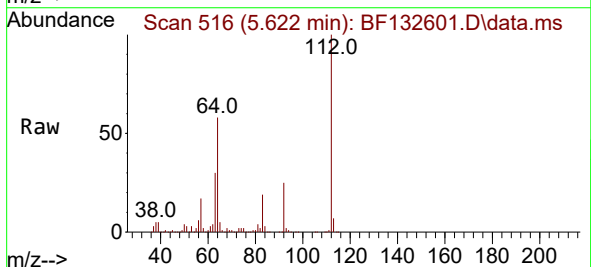
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BNA_F
ClientSampleId :
SU-03-022723



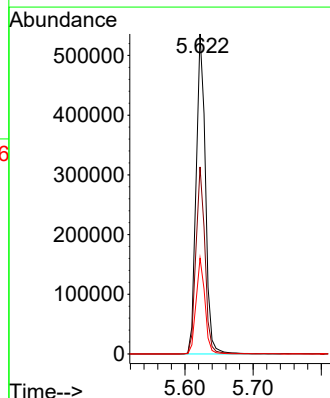
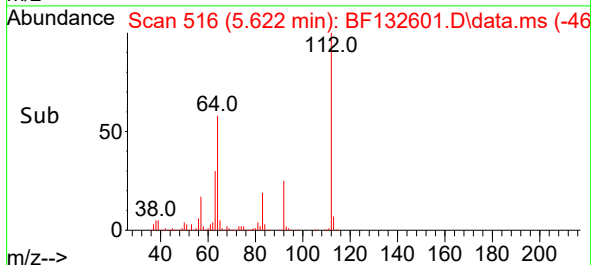
Tgt Ion:152 Resp: 184064
Ion Ratio Lower Upper
152 100
150 158.0 125.4 188.2
115 60.3 47.8 71.6

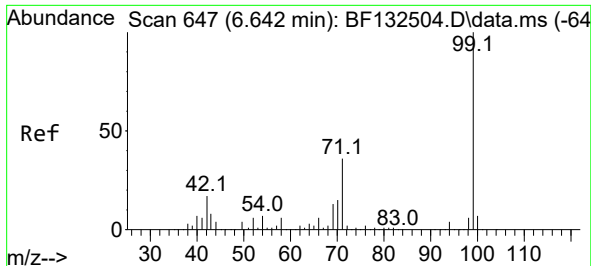


#5
2-Fluorophenol
Concen: 44.742 ng
RT: 5.622 min Scan# 516
Delta R.T. -0.009 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26



Tgt Ion:112 Resp: 507431
Ion Ratio Lower Upper
112 100
64 58.4 51.6 77.4
63 30.0 27.4 41.2

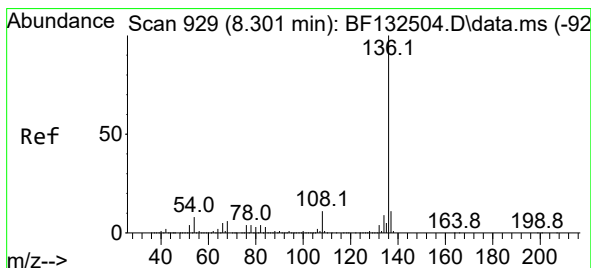
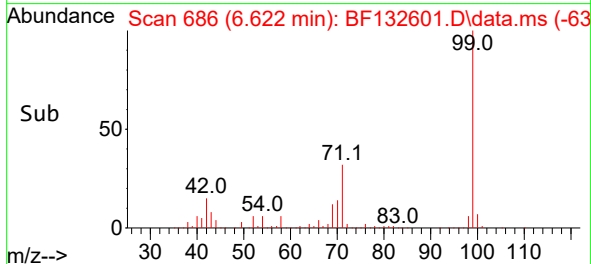
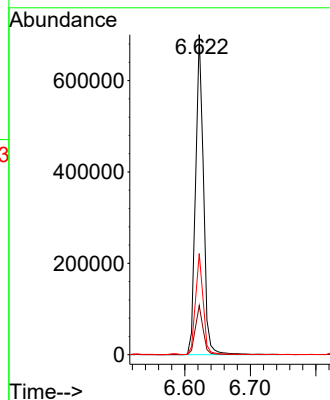
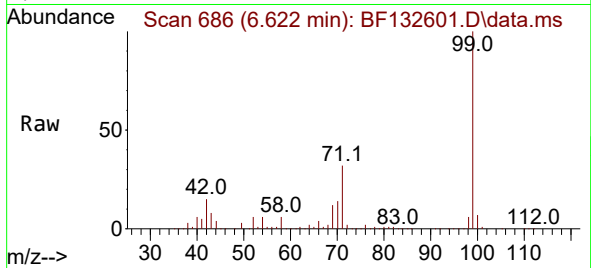




#7
Phenol-d6
Concen: 39.884 ng
RT: 6.622 min Scan# 61
Delta R.T. -0.015 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

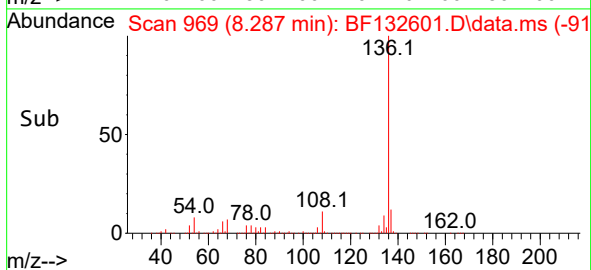
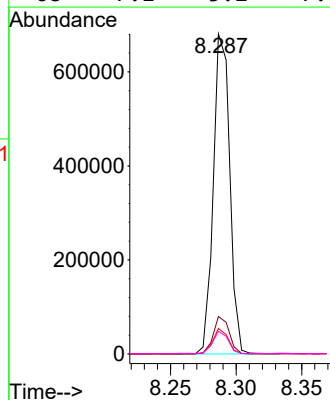
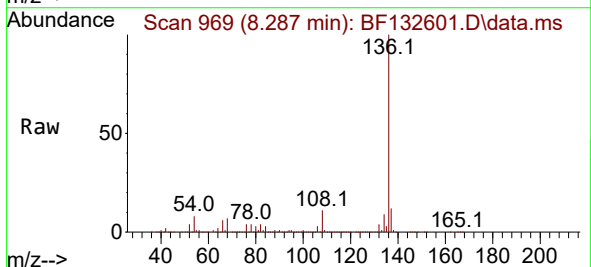
Instrument :
BNA_F
ClientSampleId :
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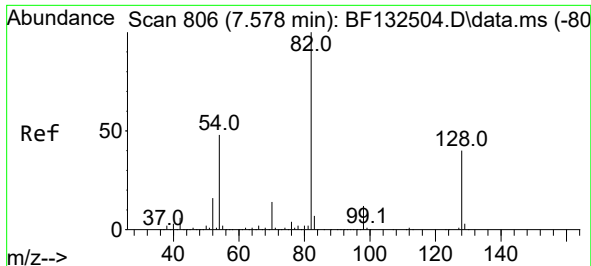
Tgt Ion: 99 Resp: 590337
Ion Ratio Lower Upper
99 100
42 15.3 13.9 20.9
71 31.6 28.5 42.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.287 min Scan# 969
Delta R.T. -0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

Tgt Ion: 136 Resp: 592581
Ion Ratio Lower Upper
136 100
137 11.7 8.9 13.3
54 7.9 6.2 9.4
68 7.1 5.2 7.8





#23

Nitrobenzene-d5

Concen: 26.900 ng

RT: 7.563 min Scan# 846

Delta R.T. -0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

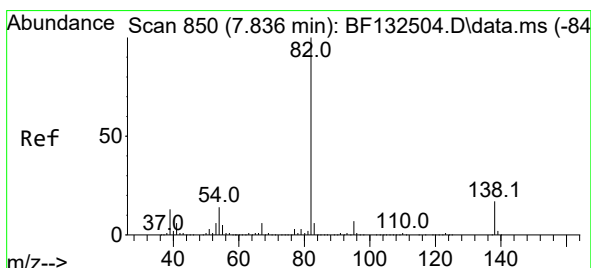
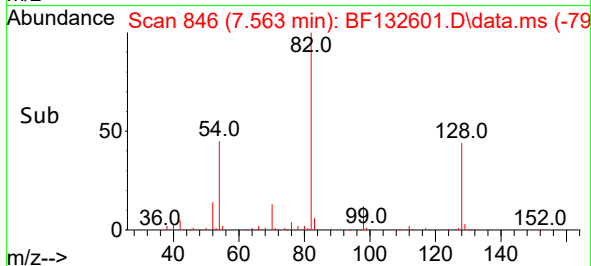
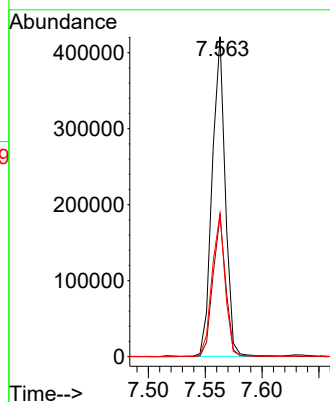
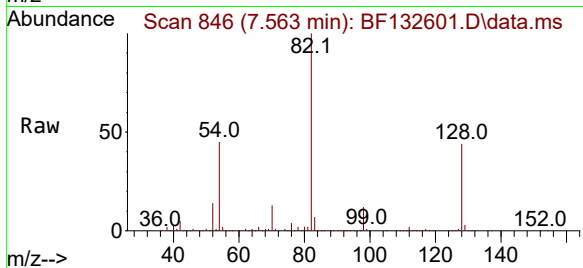
Tgt Ion: 82 Resp: 335985

Ion Ratio Lower Upper

82 100

128 44.1 32.2 48.2

54 44.7 38.4 57.6



#25

Isophorone

Concen: 13.994 ng

RT: 7.563 min Scan# 846

Delta R.T. -0.262 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

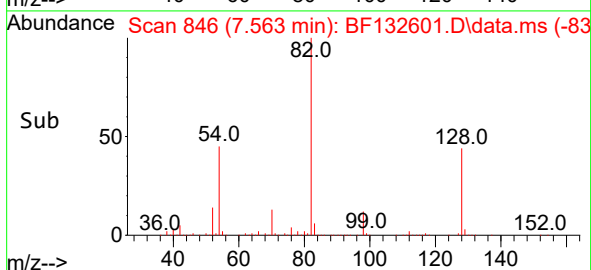
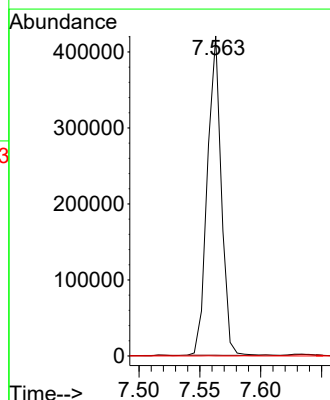
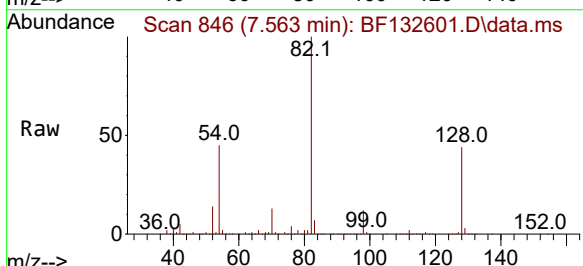
Tgt Ion: 82 Resp: 335112

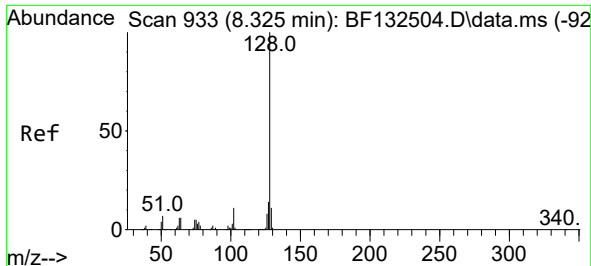
Ion Ratio Lower Upper

82 100

95 0.2 5.7 8.5#

138 0.0 13.3 19.9#

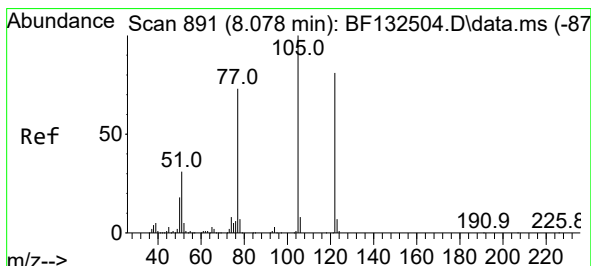
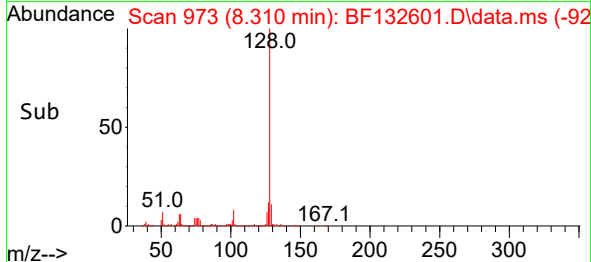
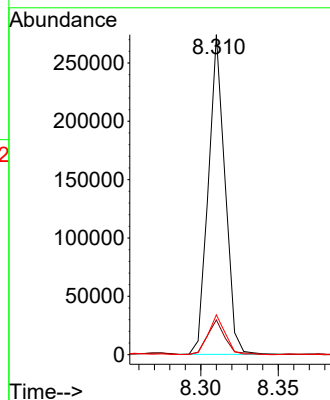
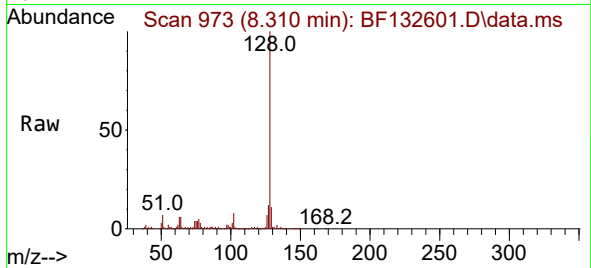




#31
Naphthalene
Concen: 6.762 ng
RT: 8.310 min Scan# 91
Delta R.T. -0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

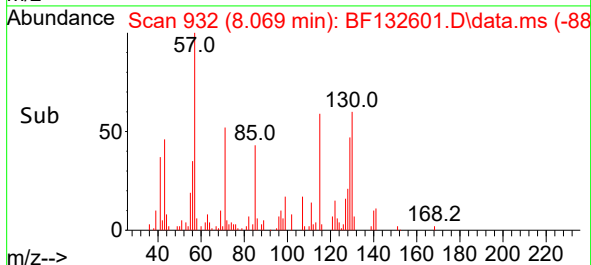
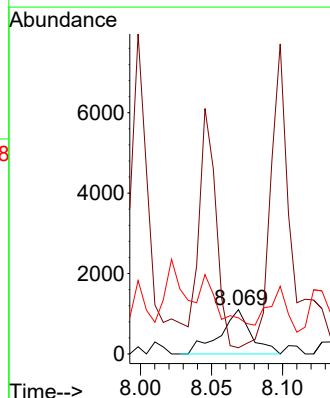
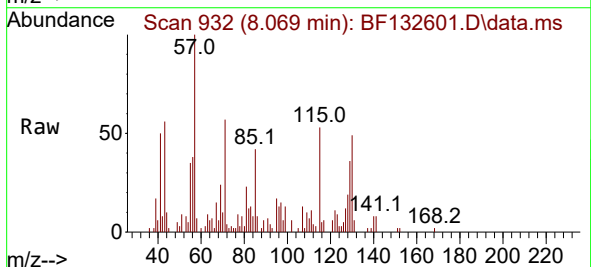
Instrument :
BNA_F
ClientSampleId :
SU-03-022723

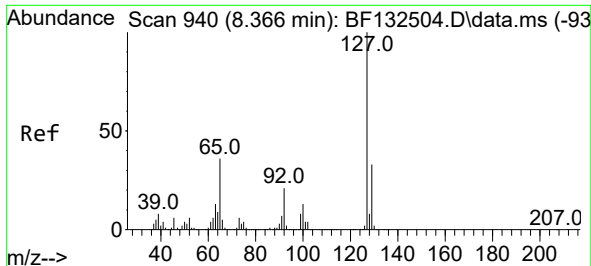
Tgt Ion:128 Resp: 205121
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 12.5 11.0 16.6



#32
Benzoic acid
Concen: 4.047 ng
RT: 8.069 min Scan# 932
Delta R.T. 0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

Tgt Ion:122 Resp: 1677
Ion Ratio Lower Upper
122 100
105 14.1 102.6 142.6#
77 81.7 70.2 110.2

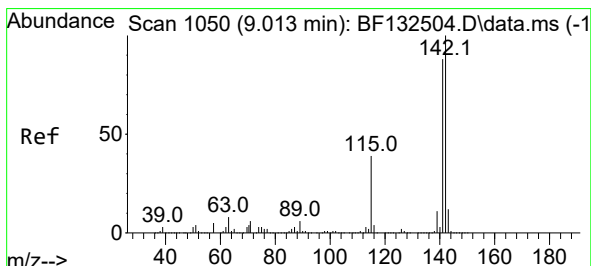
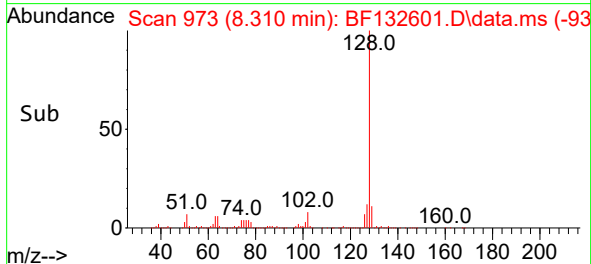
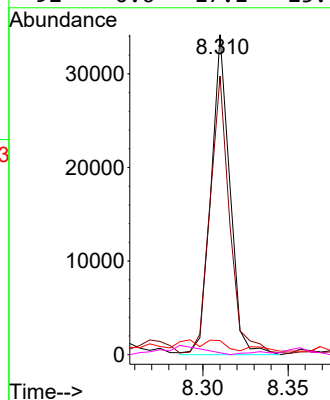
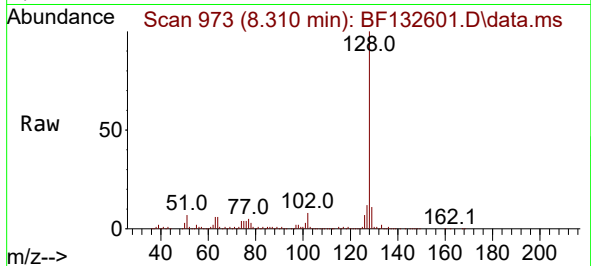




#33
4-Chloroaniline
Concen: 2.025 ng
RT: 8.310 min Scan# 91
Delta R.T. -0.050 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

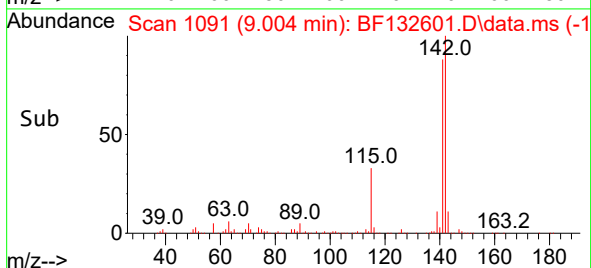
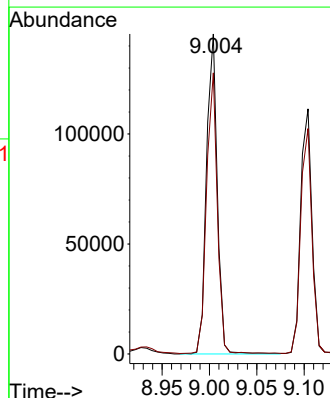
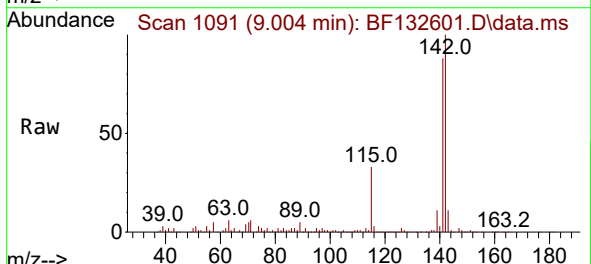
Instrument :
BNA_F
ClientSampleId :
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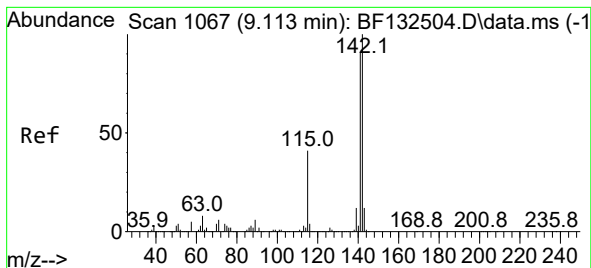
Tgt Ion:127 Resp: 26330
Ion Ratio Lower Upper
127 100
129 87.1 26.4 39.6#
65 4.4 28.8 43.2#
92 0.6 17.1 25.7#



#37
2-Methylnaphthalene
Concen: 5.573 ng
RT: 9.004 min Scan# 1091
Delta R.T. -0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

Tgt Ion:142 Resp: 115209
Ion Ratio Lower Upper
142 100
141 87.8 70.2 105.2





#38

1-Methylnaphthalene

Concen: 4.806 ng

RT: 9.104 min Scan# 1108

Delta R.T. -0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

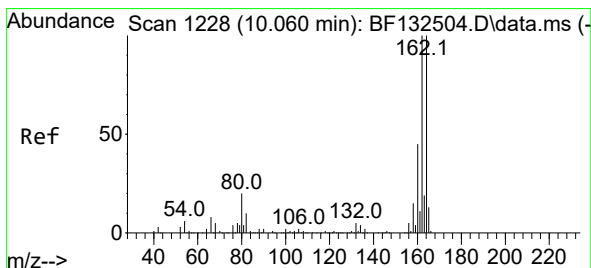
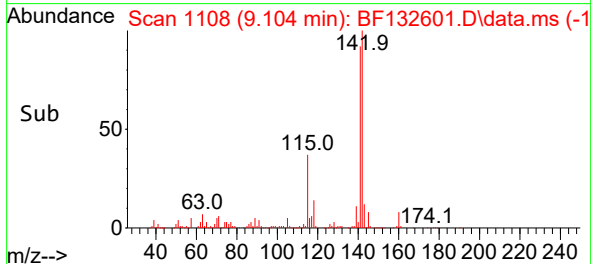
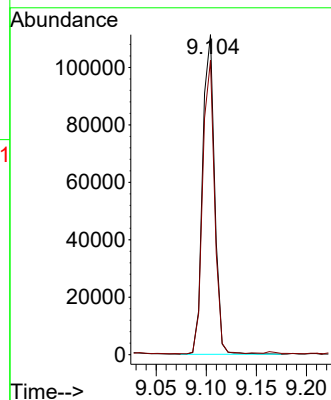
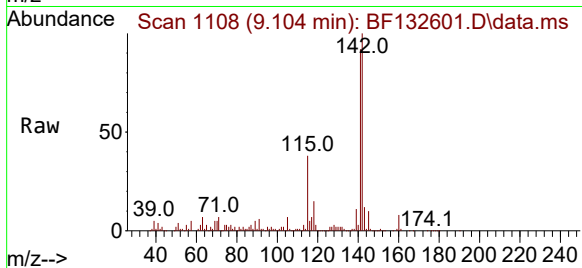
SU-03-022723

Tgt Ion:142 Resp: 92859

Ion Ratio Lower Upper

142 100

141 92.0 73.0 109.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.051 min Scan# 1269

Delta R.T. -0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

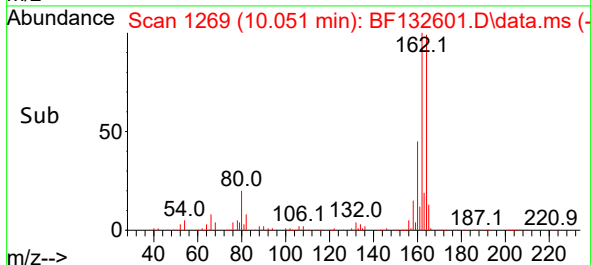
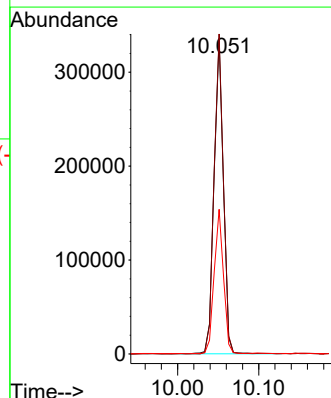
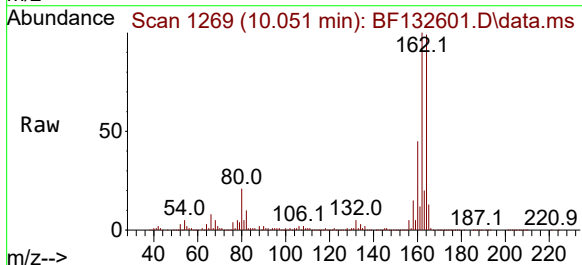
Tgt Ion:164 Resp: 266902

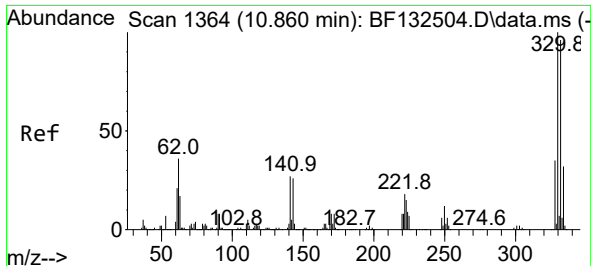
Ion Ratio Lower Upper

164 100

162 101.4 79.8 119.8

160 45.9 35.8 53.6

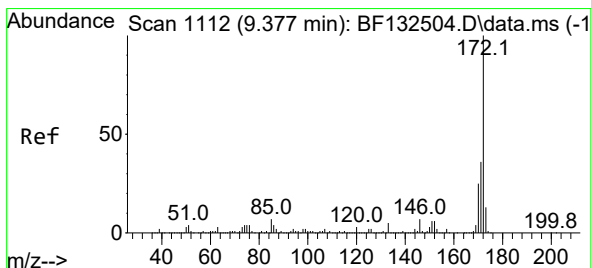
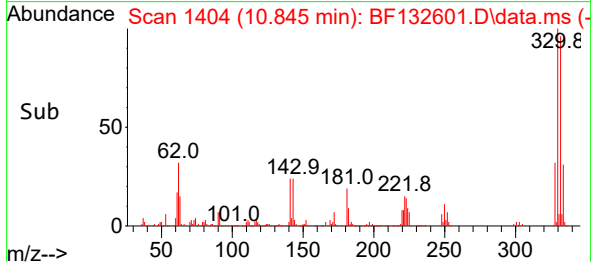
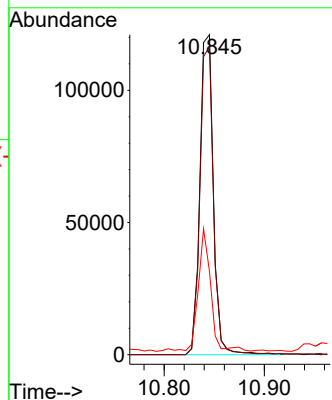
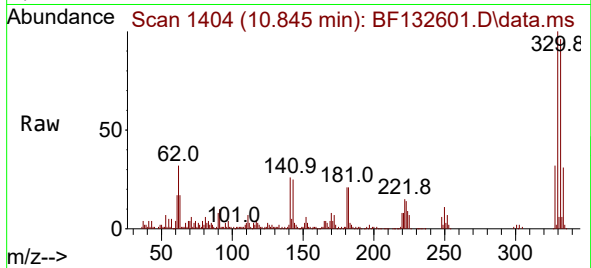




#42
2,4,6-Tribromophenol
Concen: 39.502 ng
RT: 10.845 min Scan# 1404
Delta R.T. -0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

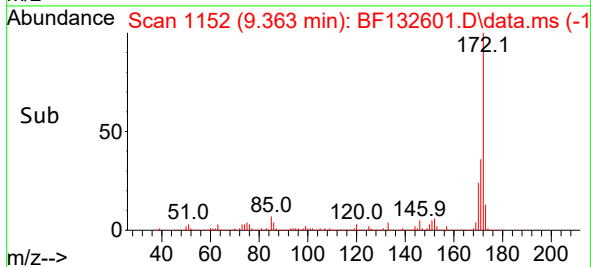
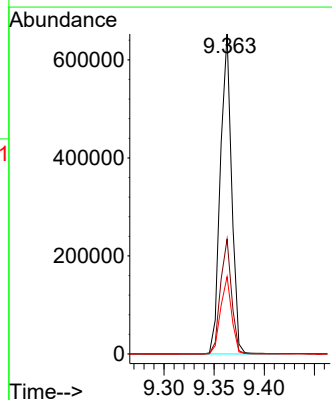
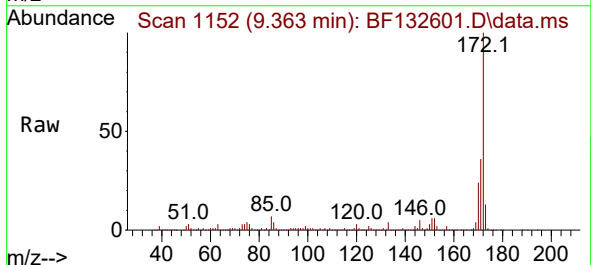
Instrument :
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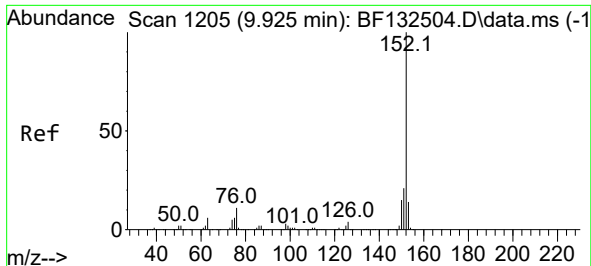
Tgt Ion: 330 Resp: 113863
Ion Ratio Lower Upper
330 100
332 95.8 76.2 114.4
141 32.7 28.4 42.6



#45
2-Fluorobiphenyl
Concen: 29.046 ng
RT: 9.363 min Scan# 1152
Delta R.T. -0.009 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

Tgt Ion: 172 Resp: 509134
Ion Ratio Lower Upper
172 100
171 35.9 28.8 43.2
170 24.1 19.7 29.5





#49

Acenaphthylene

Concen: 5.041 ng

RT: 9.910 min Scan# 11

Delta R.T. -0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

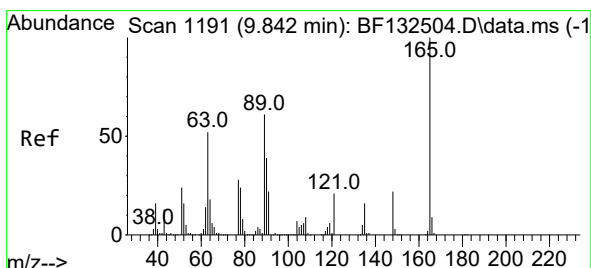
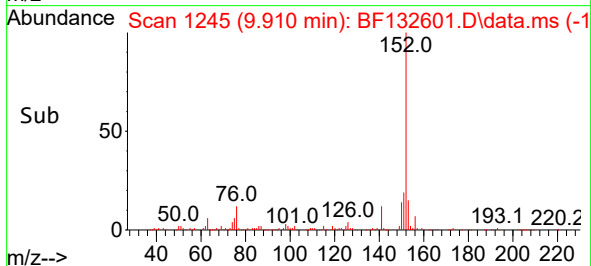
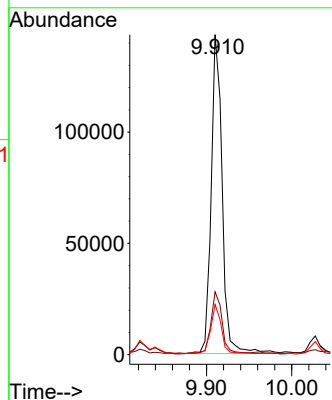
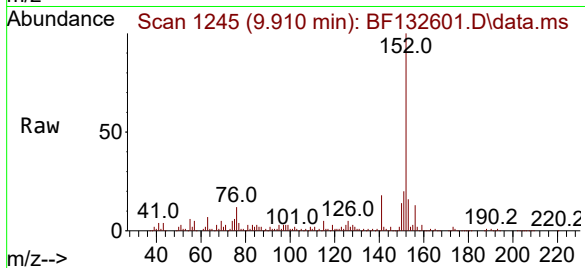
Tgt Ion:152 Resp: 128498

Ion Ratio Lower Upper

152 100

151 19.6 16.4 24.6

153 15.7 11.0 16.6



#51

2,6-Dinitrotoluene

Concen: 9.811 ng

RT: 10.051 min Scan# 1269

Delta R.T. 0.215 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

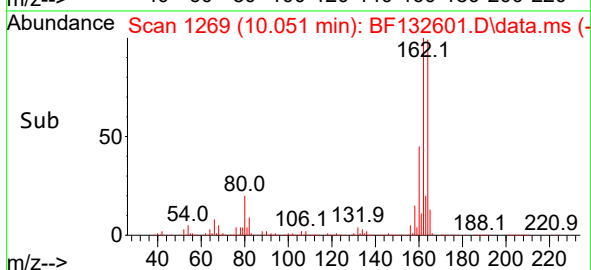
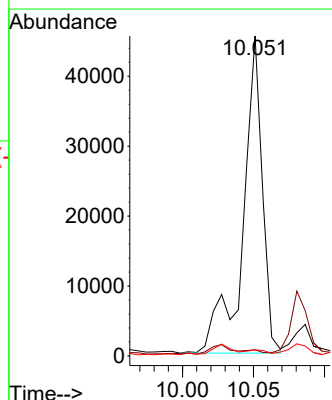
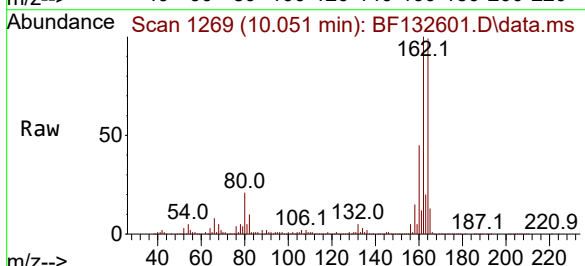
Tgt Ion:165 Resp: 43422

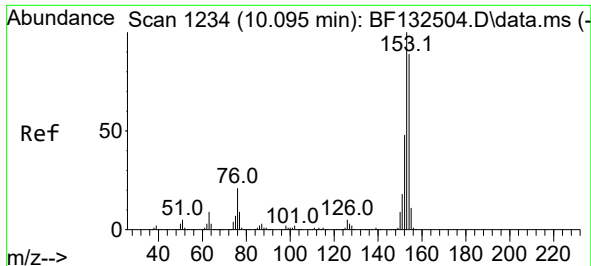
Ion Ratio Lower Upper

165 100

63 1.9 47.3 70.9#

89 1.9 48.9 73.3#

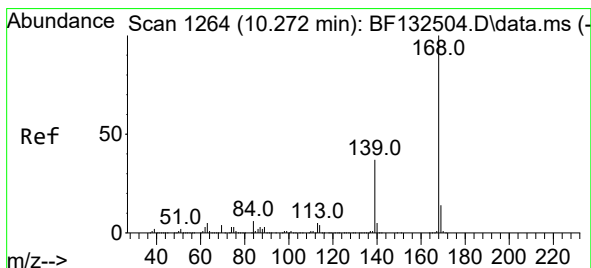
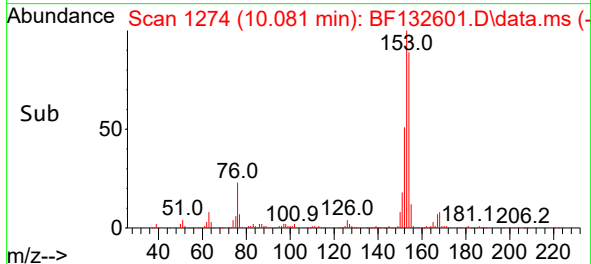
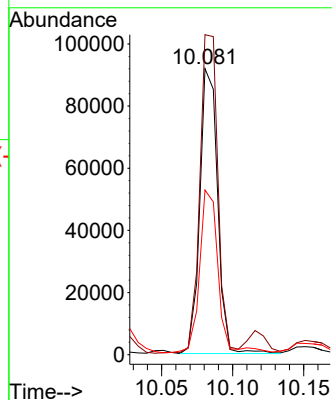
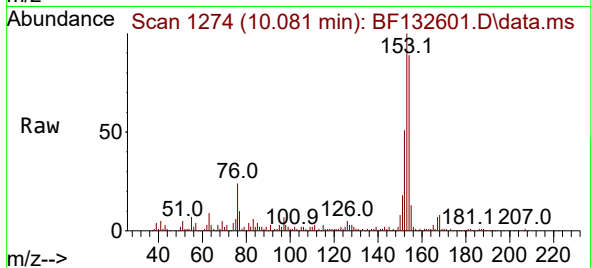




#52
Acenaphthene
Concen: 4.933 ng
RT: 10.081 min Scan# 1304
Delta R.T. -0.009 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

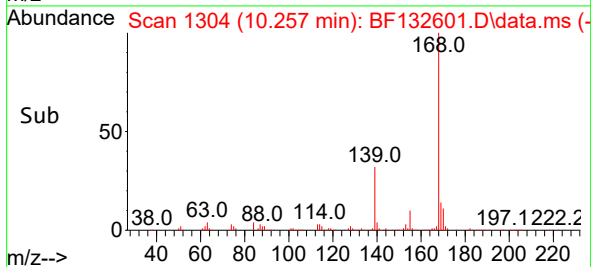
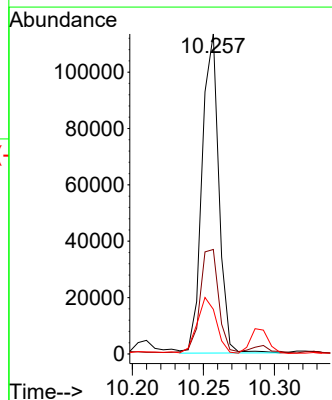
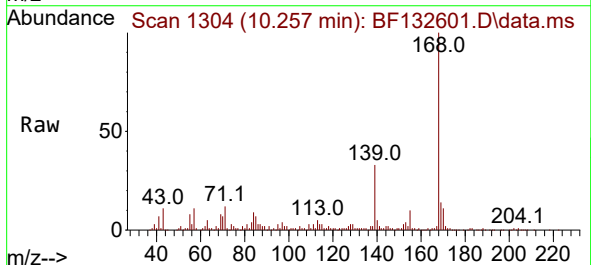
Instrument :
BNA_F
ClientSampleId :
SU-03-022723

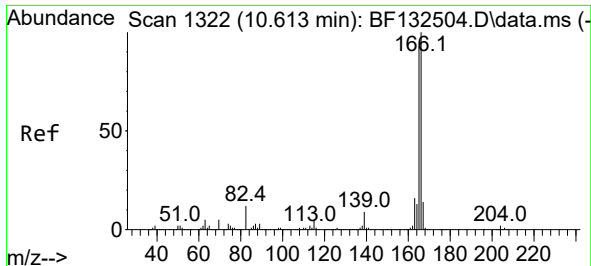
Tgt Ion:154 Resp: 79846
Ion Ratio Lower Upper
154 100
153 111.9 89.8 134.8
152 57.5 43.3 64.9



#55
Dibenzofuran
Concen: 3.964 ng
RT: 10.257 min Scan# 1304
Delta R.T. -0.003 min
Lab File: BF132601.D
Acq: 01 Mar 2023 20:26

Tgt Ion:168 Resp: 93534
Ion Ratio Lower Upper
168 100
139 32.6 29.8 44.6
169 14.0 10.9 16.3

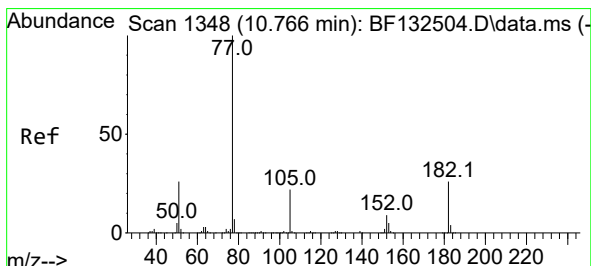
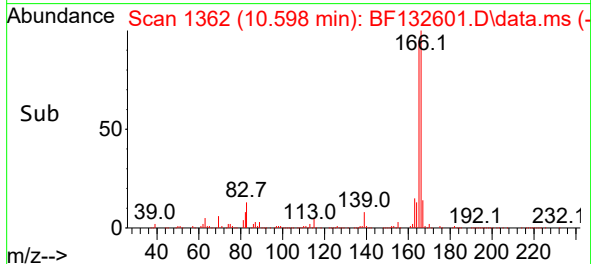
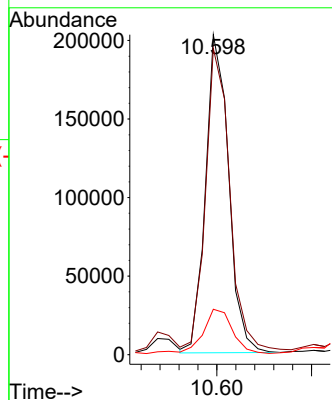
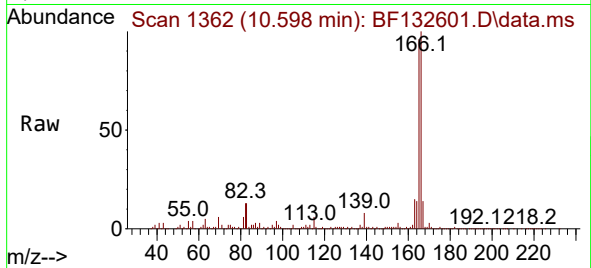




#58
 Fluorene
 Concen: 9.536 ng
 RT: 10.598 min Scan# 11
 Delta R.T. -0.009 min
 Lab File: BF132601.D
 Acq: 01 Mar 2023 20:26

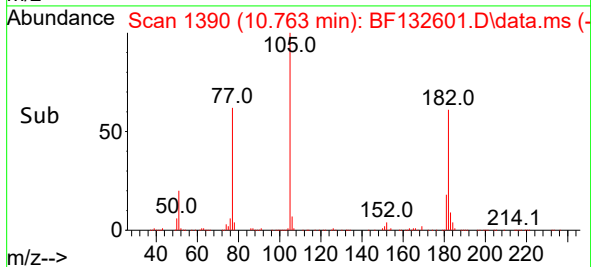
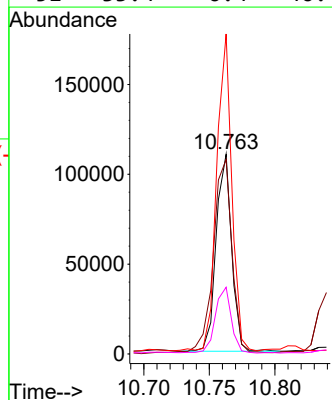
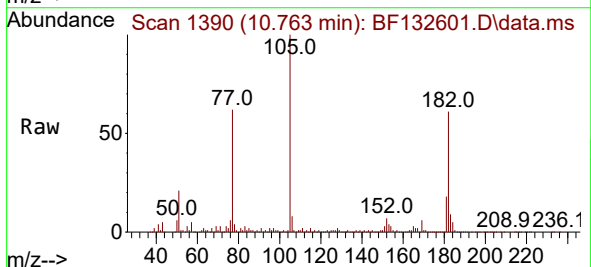
Instrument :
 BNA_F
 ClientSampleId :
 SU-03-022723

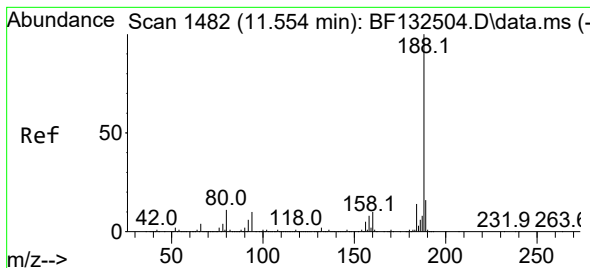
Tgt Ion:166 Resp: 172112
 Ion Ratio Lower Upper
 166 100
 165 95.7 74.2 111.4
 167 14.2 11.1 16.7



#63
 Azobenzene
 Concen: 4.472 ng
 RT: 10.763 min Scan# 1390
 Delta R.T. 0.009 min
 Lab File: BF132601.D
 Acq: 01 Mar 2023 20:26

Tgt Ion: 77 Resp: 89890
 Ion Ratio Lower Upper
 77 100
 182 97.3 5.5 45.5#
 105 160.2 1.8 41.8#
 51 33.4 6.4 46.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.545 min Scan# 1

Delta R.T. -0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

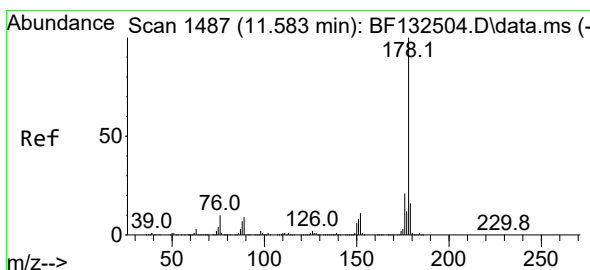
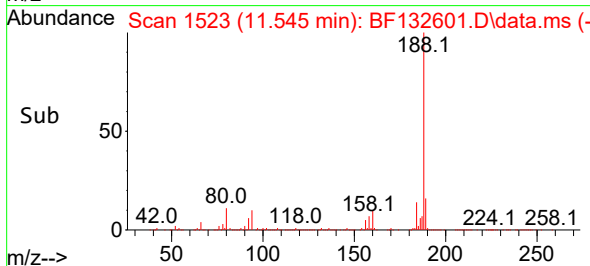
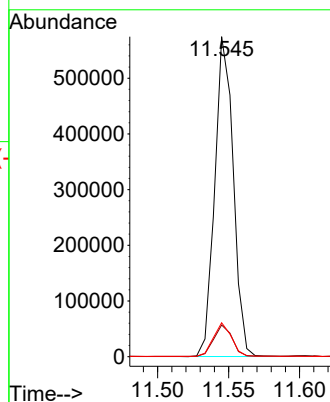
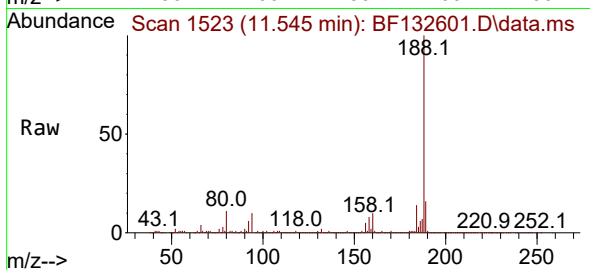
Tgt Ion:188 Resp: 521339

Ion Ratio Lower Upper

188 100

94 9.9 8.3 12.5

80 10.6 8.7 13.1



#71

Phenanthrene

Concen: 50.948 ng

RT: 11.575 min Scan# 1528

Delta R.T. -0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

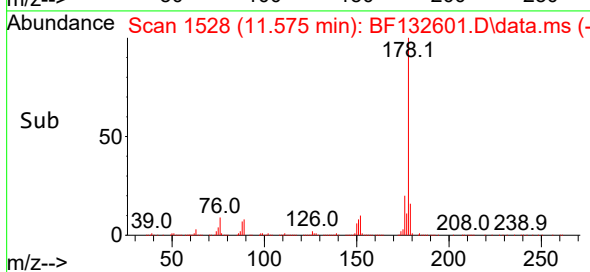
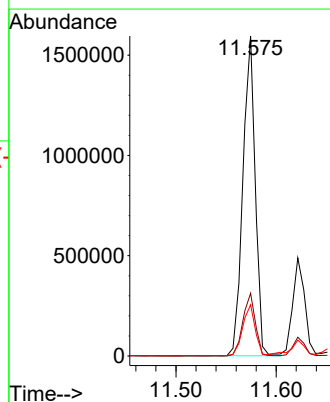
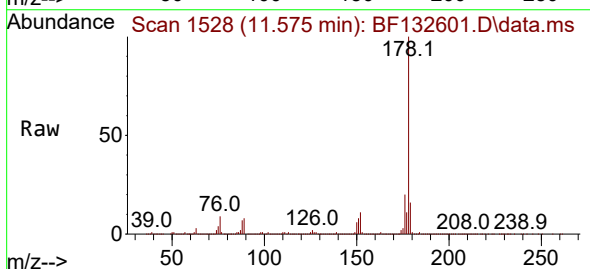
Tgt Ion:178 Resp: 1375985

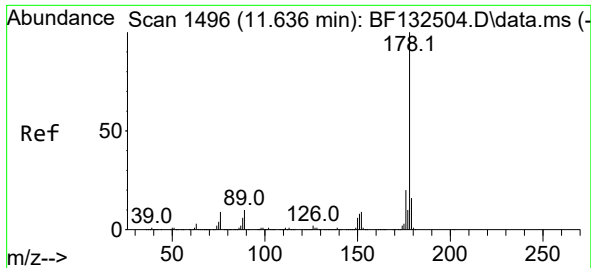
Ion Ratio Lower Upper

178 100

176 19.6 16.5 24.7

179 16.0 13.0 19.6

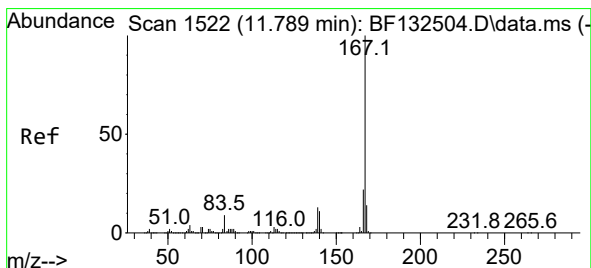
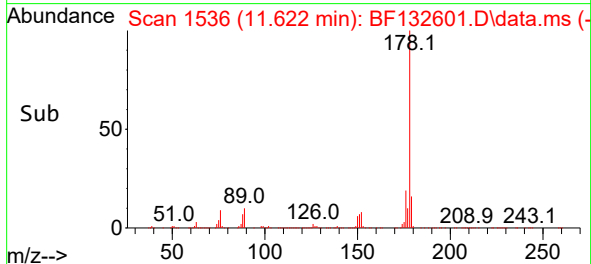
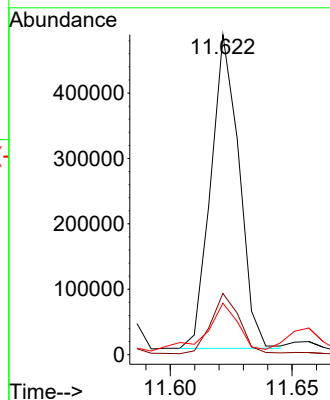
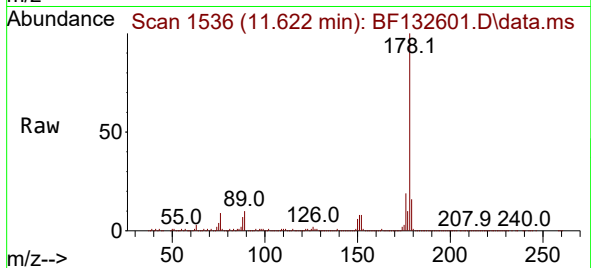




#72
 Anthracene
 Concen: 13.960 ng
 RT: 11.622 min Scan# 1536
 Delta R.T. -0.009 min
 Lab File: BF132601.D
 Acq: 01 Mar 2023 20:26

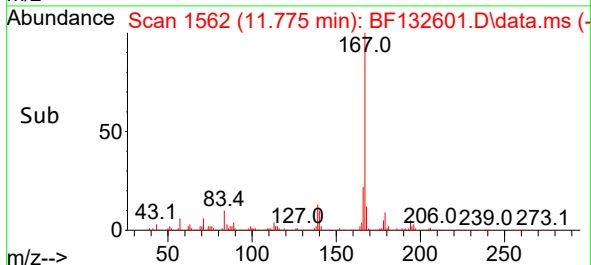
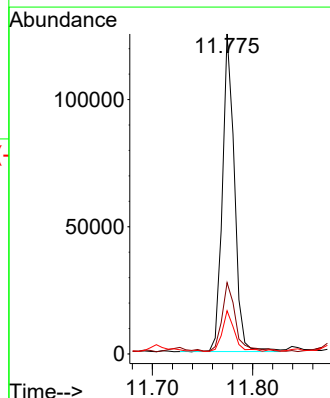
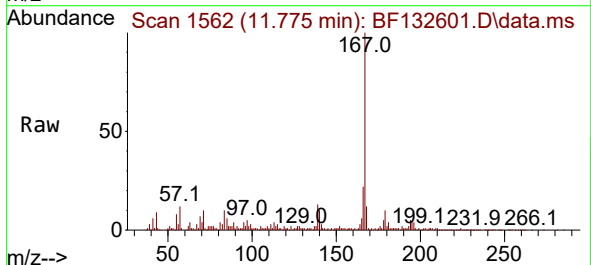
Instrument :
 BNA_F
 ClientSampleId :
 SU-03-022723

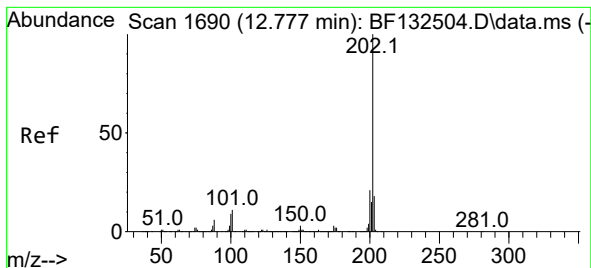
Tgt Ion:178 Resp: 388263
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.6 23.4
 179 16.1 12.5 18.7



#73
 Carbazole
 Concen: 4.141 ng
 RT: 11.775 min Scan# 1562
 Delta R.T. -0.009 min
 Lab File: BF132601.D
 Acq: 01 Mar 2023 20:26

Tgt Ion:167 Resp: 103827
 Ion Ratio Lower Upper
 167 100
 166 22.3 17.7 26.5
 139 13.5 10.5 15.7





#75

Fluoranthene

Concen: 67.740 ng

RT: 12.774 min Scan# 11

Delta R.T. 0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

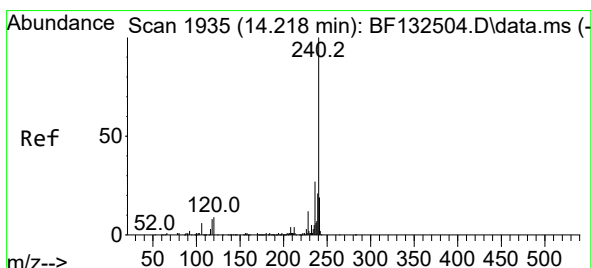
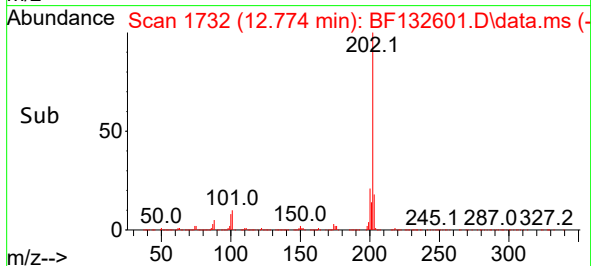
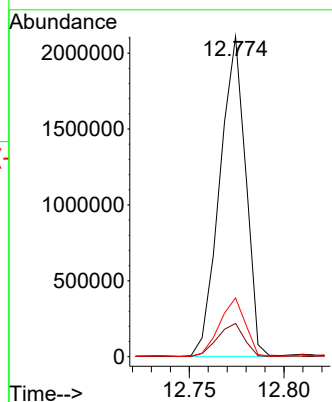
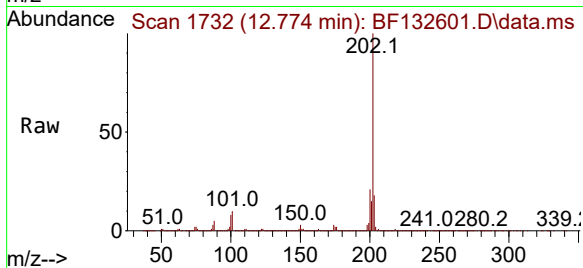
Tgt Ion:202 Resp: 2000030

Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.4

203 18.4 0.0 38.0



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.210 min Scan# 1976

Delta R.T. 0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

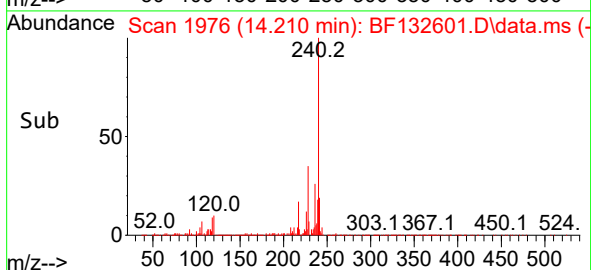
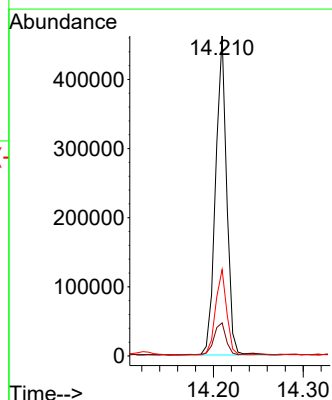
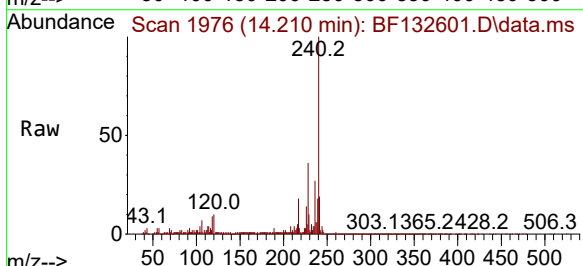
Tgt Ion:240 Resp: 397075

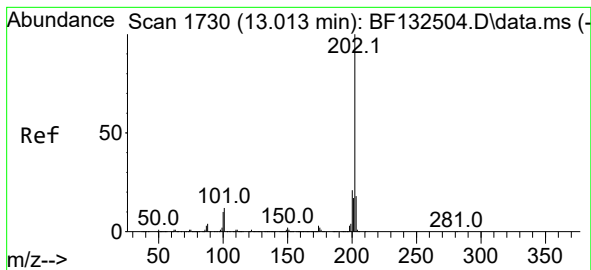
Ion Ratio Lower Upper

240 100

120 10.3 7.2 10.8

236 27.0 21.8 32.6





#78

Pyrene

Concen: 54.150 ng

RT: 13.010 min Scan# 11

Delta R.T. 0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

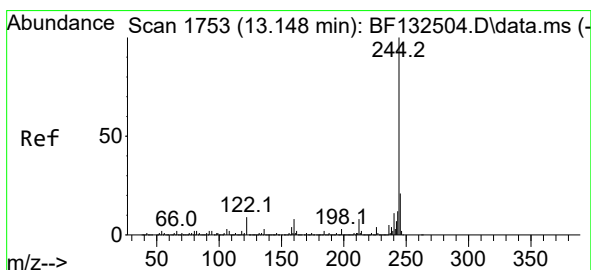
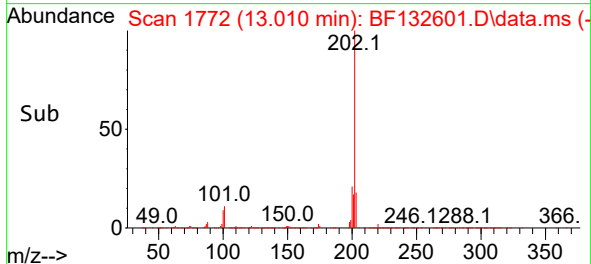
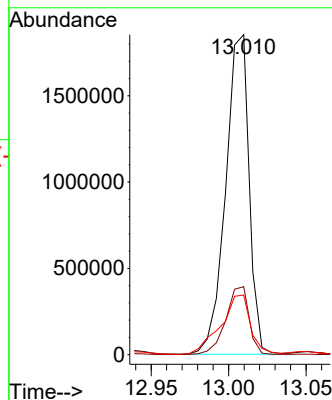
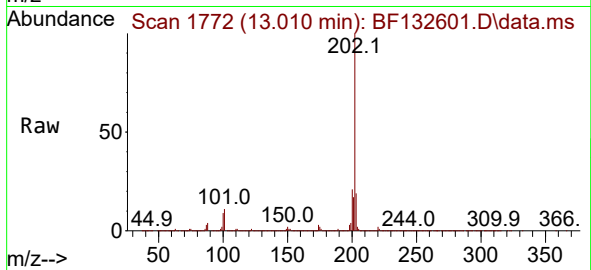
Tgt Ion:202 Resp: 1954858

Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

203 18.6 14.6 21.8



#79

Terphenyl-d14

Concen: 27.059 ng

RT: 13.133 min Scan# 1793

Delta R.T. -0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

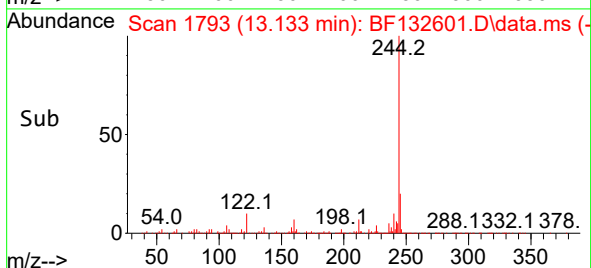
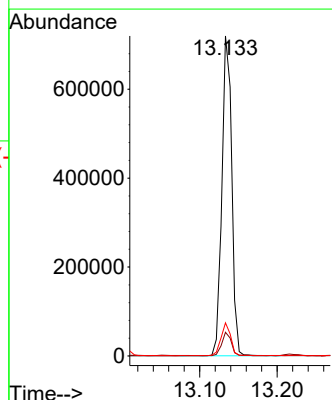
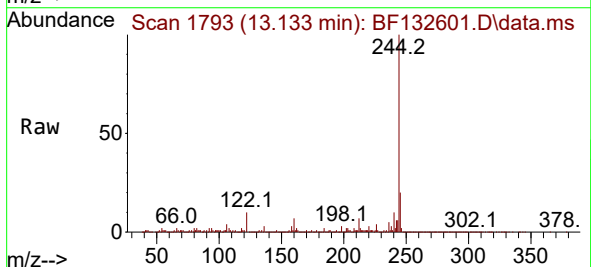
Tgt Ion:244 Resp: 635488

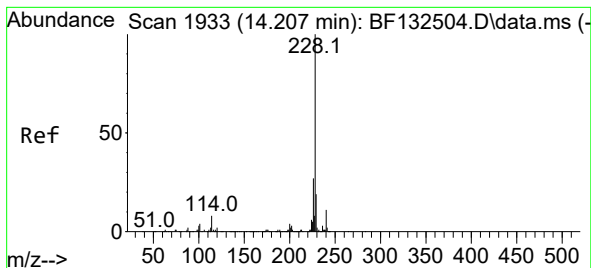
Ion Ratio Lower Upper

244 100

212 7.4 6.5 9.7

122 10.4 7.5 11.3





#81

Benzo(a)anthracene

Concen: 35.369 ng

RT: 14.198 min Scan# 1974

Delta R.T. 0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

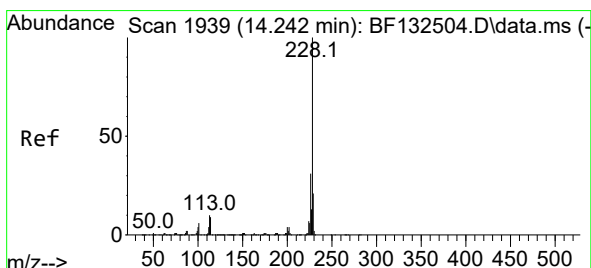
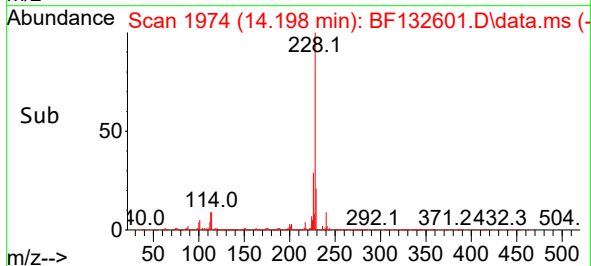
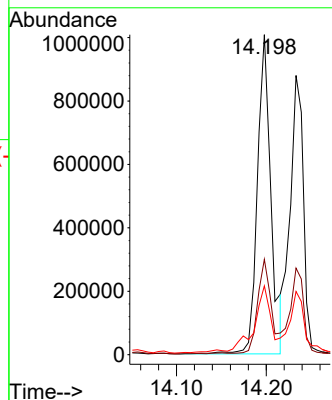
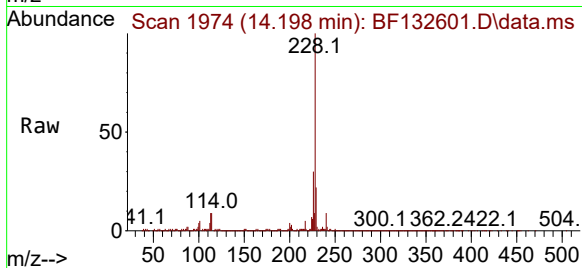
Tgt Ion:228 Resp: 1050808

Ion Ratio Lower Upper

228 100

226 29.8 21.7 32.5

229 21.5 15.4 23.2



#83

Chrysene

Concen: 32.520 ng

RT: 14.233 min Scan# 1980

Delta R.T. -0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

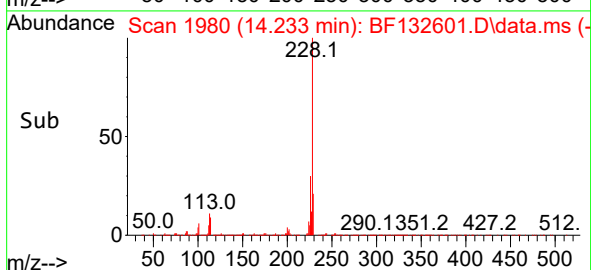
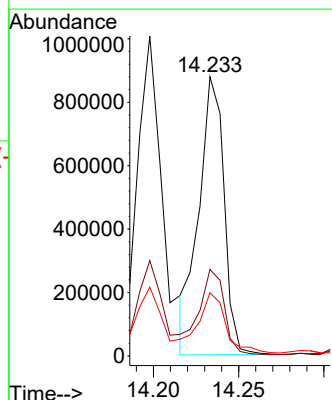
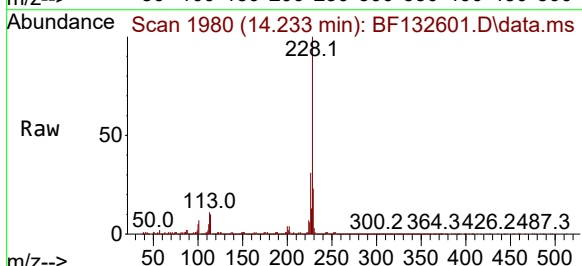
Tgt Ion:228 Resp: 903484

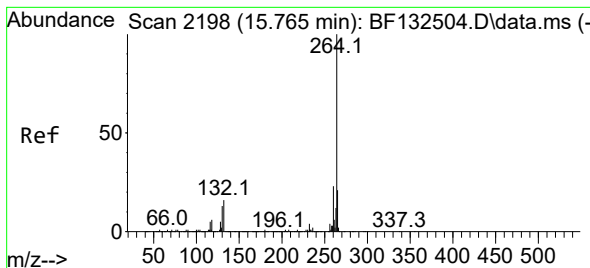
Ion Ratio Lower Upper

228 100

226 31.0 25.0 37.6

229 22.6 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.762 min Scan# 21

Delta R.T. 0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

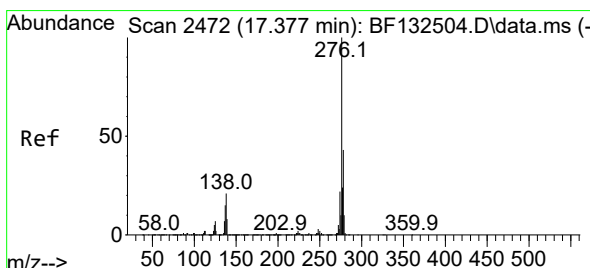
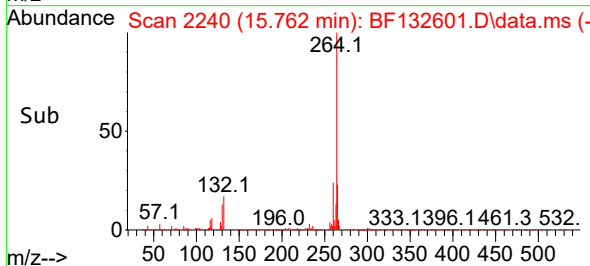
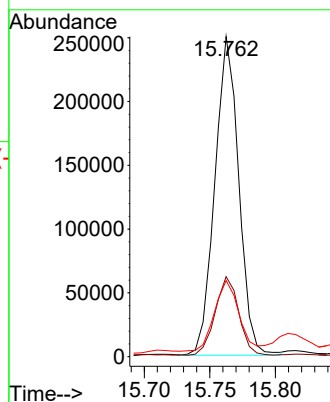
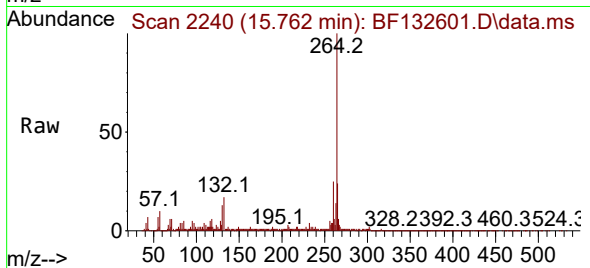
Tgt Ion:264 Resp: 316452

Ion Ratio Lower Upper

264 100

260 25.0 18.8 28.2

265 23.8 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 17.036 ng

RT: 17.362 min Scan# 2512

Delta R.T. 0.003 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

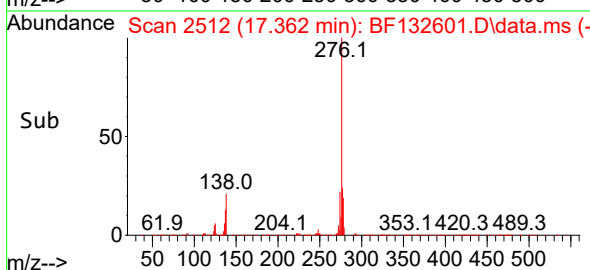
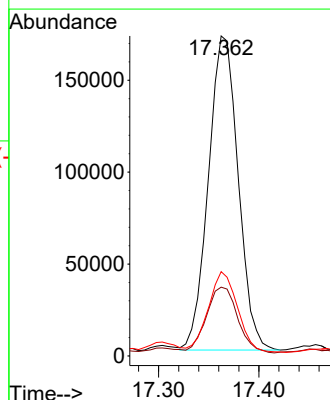
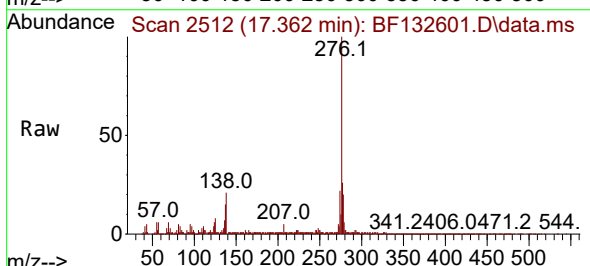
Tgt Ion:276 Resp: 353253

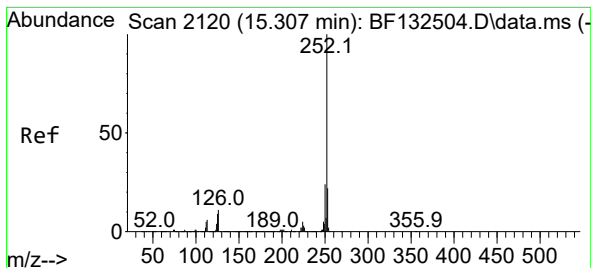
Ion Ratio Lower Upper

276 100

138 22.0 19.0 28.4

277 25.3 20.0 30.0





#88

Benzo(b)fluoranthene

Concen: 56.967 ng

RT: 15.304 min Scan# 2116

Delta R.T. 0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

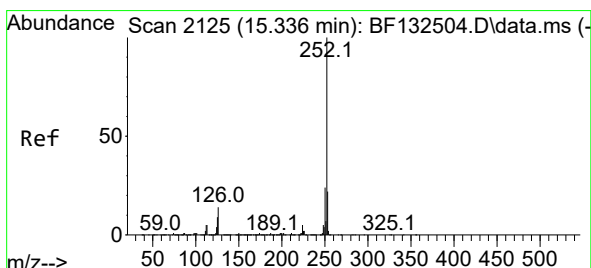
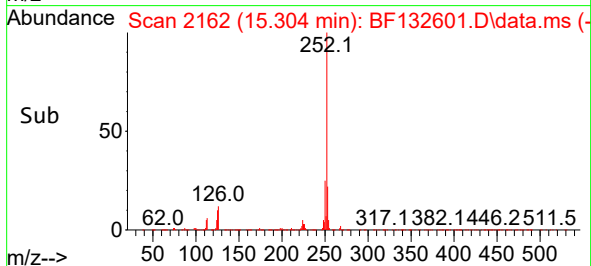
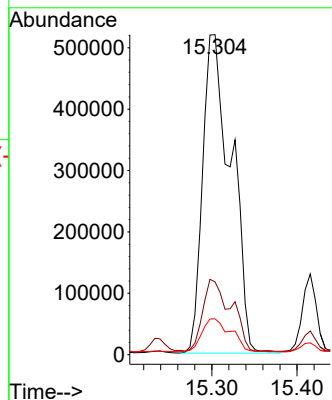
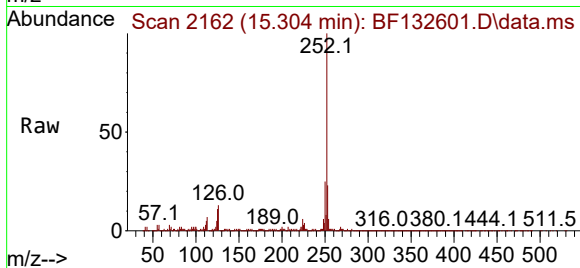
Tgt Ion:252 Resp: 1208096

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

125 11.2 7.0 10.6#



#89

Benzo(k)fluoranthene

Concen: 58.207 ng

RT: 15.304 min Scan# 2162

Delta R.T. -0.021 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

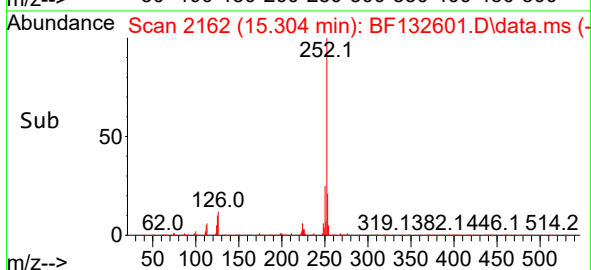
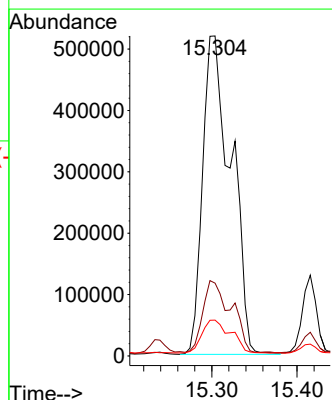
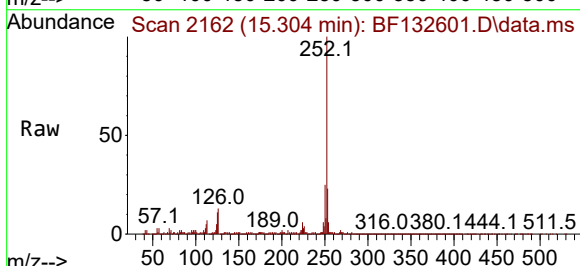
Tgt Ion:252 Resp: 1208096

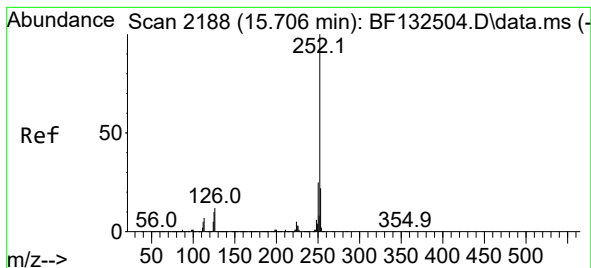
Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 11.2 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 32.373 ng

RT: 15.698 min Scan# 21

Delta R.T. 0.009 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

Instrument :

BNA_F

ClientSampleId :

SU-03-022723

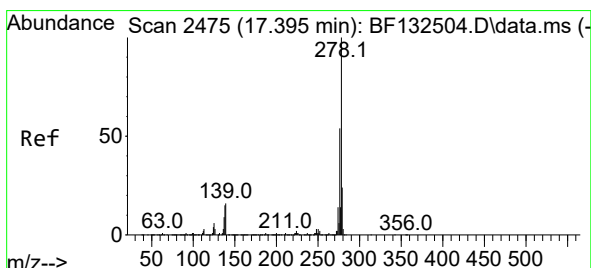
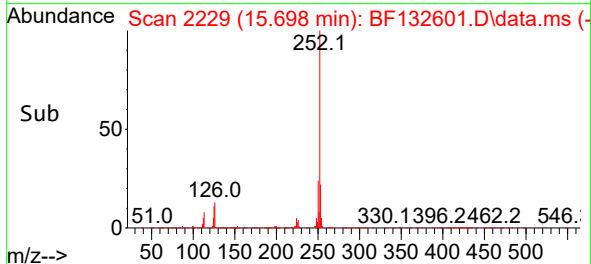
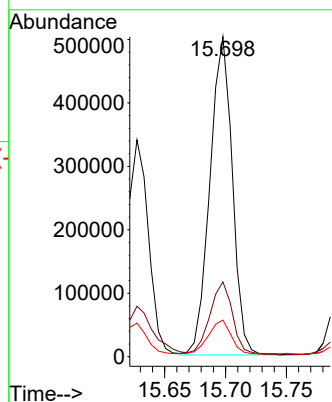
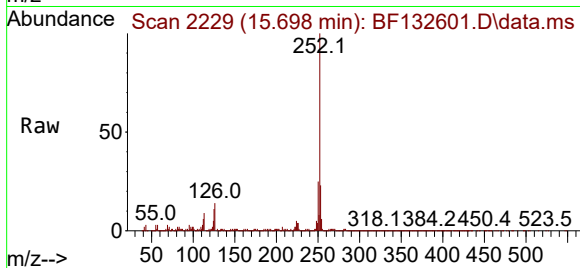
Tgt Ion:252 Resp: 642550

Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

125 11.5 8.0 12.0



#91

Dibenzo(a,h)anthracene

Concen: 4.696 ng

RT: 17.562 min Scan# 2546

Delta R.T. 0.185 min

Lab File: BF132601.D

Acq: 01 Mar 2023 20:26

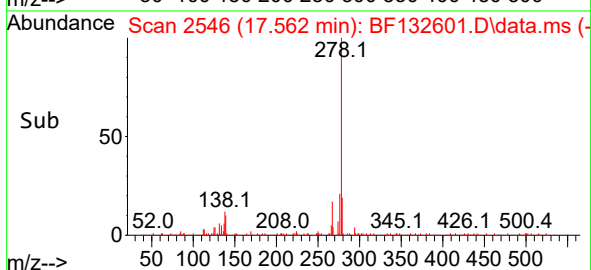
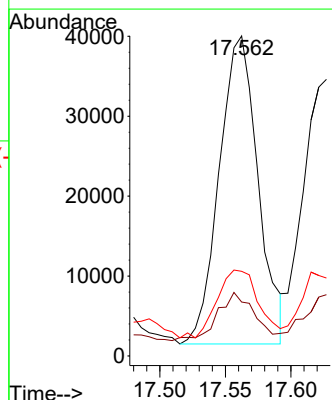
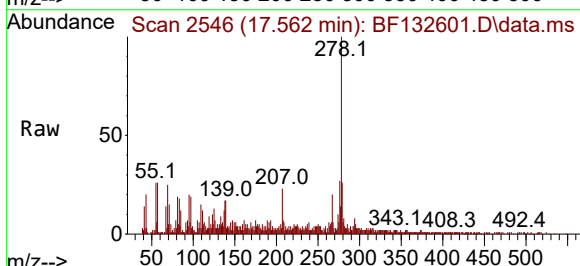
Tgt Ion:278 Resp: 79344

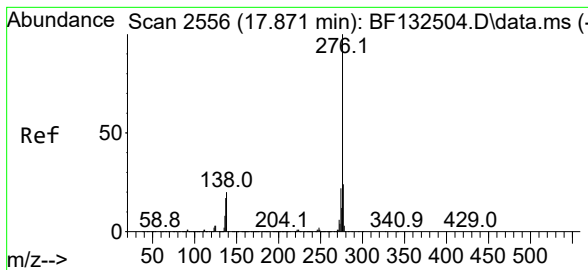
Ion Ratio Lower Upper

278 100

139 16.9 13.0 19.4

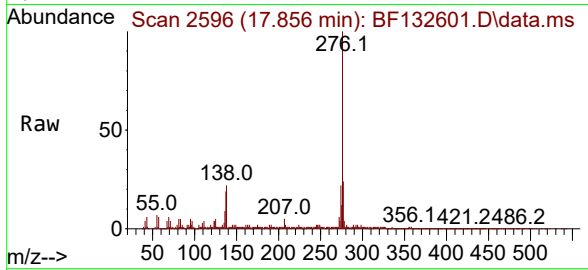
279 26.5 19.0 28.4





#92
 Benzo(g,h,i)perylene
 Concen: 19.449 ng
 RT: 17.856 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BF132601.D
 Acq: 01 Mar 2023 20:26

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-022723



Tgt Ion:	276	Resp:	352366
Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	21.7	16.2	24.4

