

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
 Data File : BF135741.D
 Acq On : 12 Oct 2023 18:33
 Operator : CG\JU
 Sample : 04657-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 U-2(0-2IN)

Quant Time: Oct 13 00:57:22 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 02:43:17 2023
 Response via : Initial Calibration

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

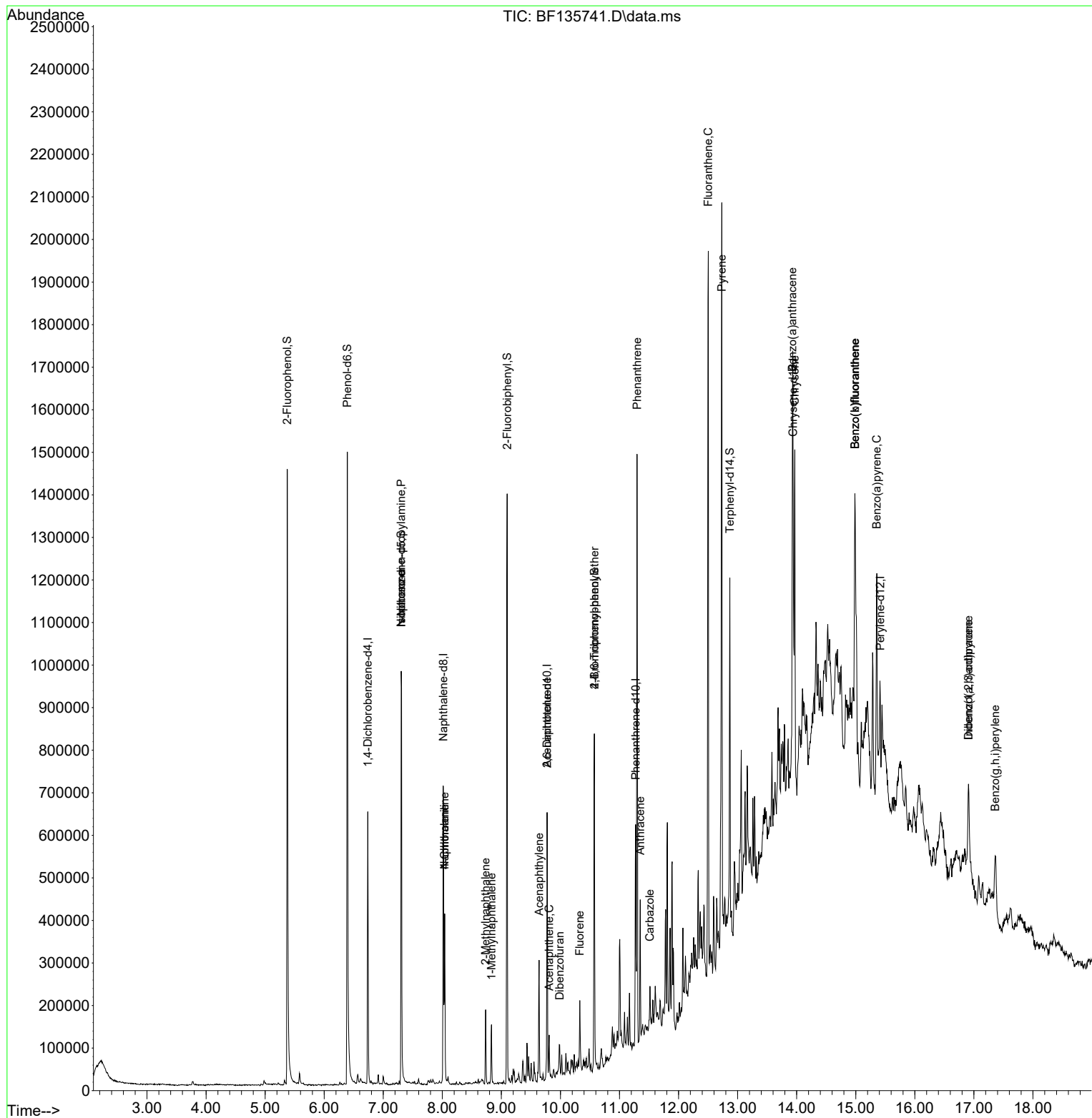
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	85671	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	306172	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	116864	20.000	ng	0.00
64) Phenanthrene-d10	11.275	188	193426	20.000	ng	0.00
76) Chrysene-d12	13.939	240	123693	20.000	ng	0.00
86) Perylene-d12	15.415	264	105835	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	408823	77.614	ng	0.00
7) Phenol-d6	6.393	99	488152	72.883	ng	0.00
23) Nitrobenzene-d5	7.304	82	310745	55.141	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	93085	80.153	ng	0.00
45) 2-Fluorobiphenyl	9.098	172	414980	53.574	ng	0.00
79) Terphenyl-d14	12.869	244	281271	35.250	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.304	70	41071	9.900	ng	# 81
25) Isophorone	7.304	82	310741	30.028	ng	# 65
31) Naphthalene	8.039	128	152984	10.284	ng	99
33) 4-Chloroaniline	8.039	127	19642	3.009	ng	# 33
37) 2-Methylnaphthalene	8.734	142	42123	4.212	ng	99
38) 1-Methylnaphthalene	8.834	142	35255	3.766	ng	97
49) Acenaphthylene	9.639	152	105975	9.786	ng	98
51) 2,6-Dinitrotoluene	9.775	165	16111	9.308	ng	# 18
52) Acenaphthene	9.810	154	19919	3.114	ng	96
55) Dibenzofuran	9.986	168	22413	2.296	ng	94
58) Fluorene	10.328	166	45422	6.052	ng	97
67) 4-Bromophenyl-phenylether	10.575	248	5561	2.891	ng	# 1
71) Phenanthrene	11.298	178	474811	51.902	ng	99
72) Anthracene	11.351	178	121817	12.955	ng	99
73) Carbazole	11.516	167	33310	3.891	ng	98
75) Fluoranthene	12.504	202	749679	78.646	ng	98
78) Pyrene	12.733	202	734220	62.346	ng	99
81) Benzo(a)anthracene	13.927	228	384519	48.142	ng	95
83) Chrysene	13.968	228	339637	42.769	ng	97
87) Indeno(1,2,3-cd)pyrene	16.909	276	139450	20.096	ng	94
88) Benzo(b)fluoranthene	14.986	252	445637	77.783	ng	# 93
89) Benzo(k)fluoranthene	14.986	252	445637	78.742	ng	# 93
90) Benzo(a)pyrene	15.357	252	252265	46.172	ng	# 96
91) Dibenzo(a,h)anthracene	16.909	278	38995	6.868	ng	# 69
92) Benzo(g,h,i)perylene	17.362	276	122244	20.615	ng	98

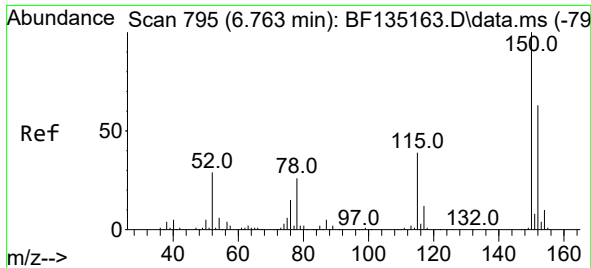
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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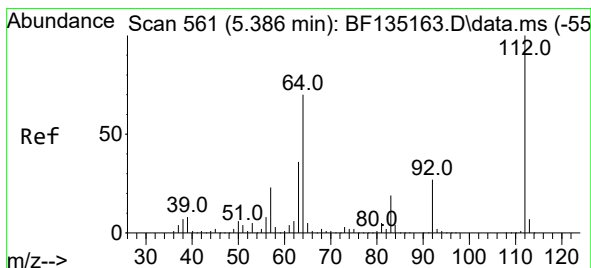
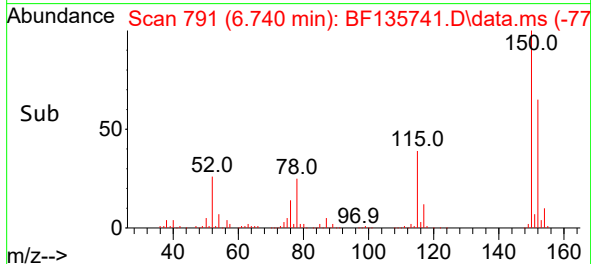
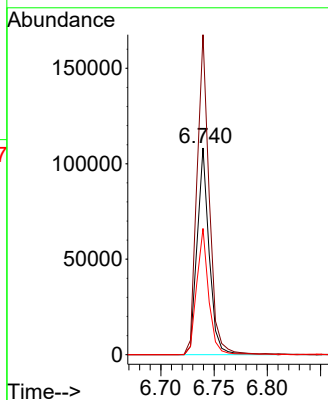
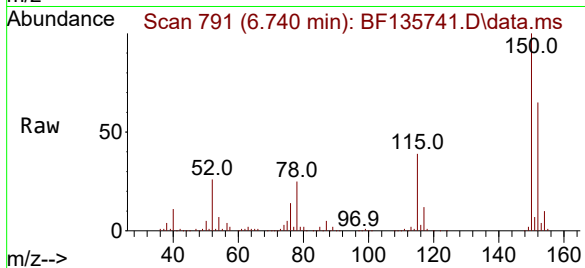




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

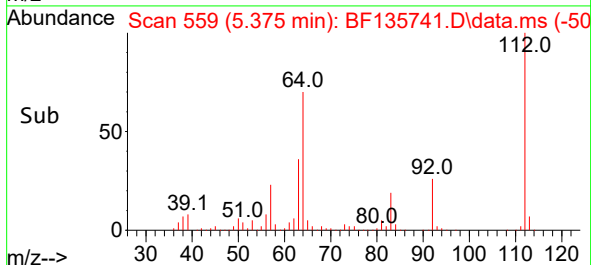
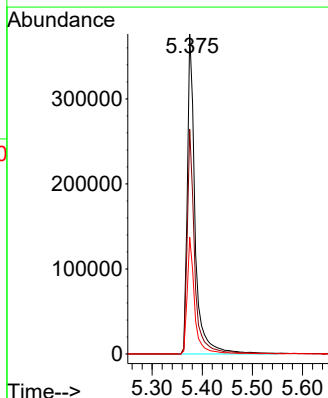
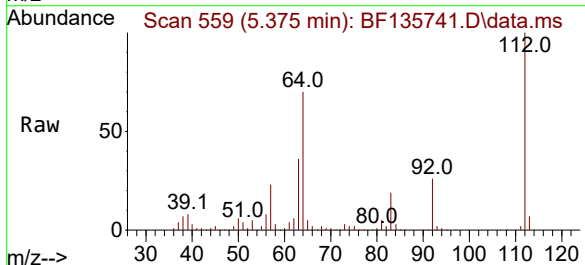
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

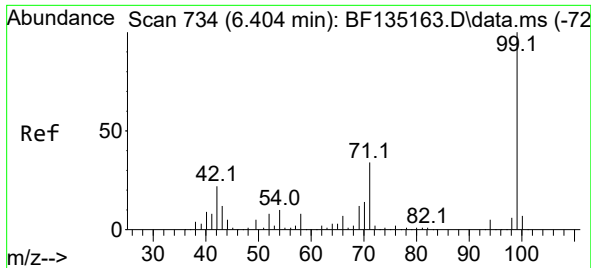
Tgt Ion:152 Resp: 85671
Ion Ratio Lower Upper
152 100
150 154.8 127.8 191.6
115 61.1 49.8 74.8



#5
2-Fluorophenol
Concen: 77.614 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:112 Resp: 408823
Ion Ratio Lower Upper
112 100
64 70.2 55.9 83.9
63 36.5 29.0 43.6

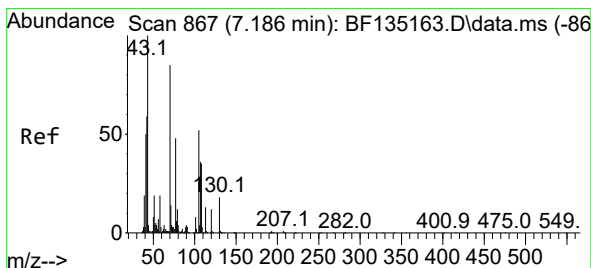
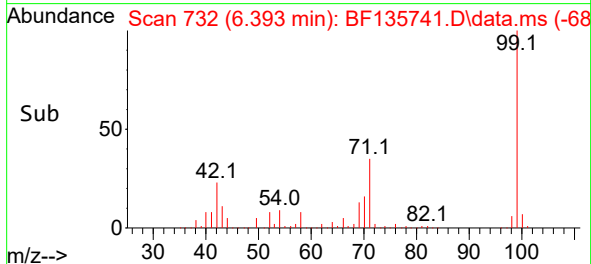
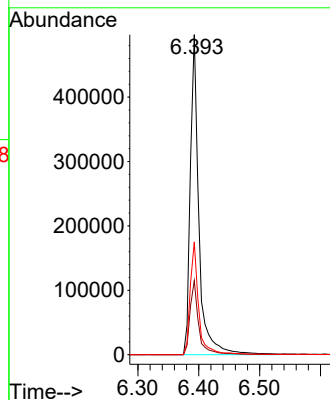
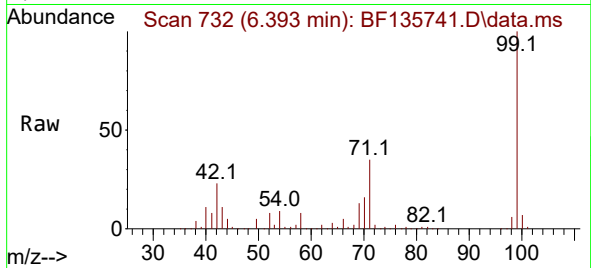




#7
Phenol-d6
Concen: 72.883 ng
RT: 6.393 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

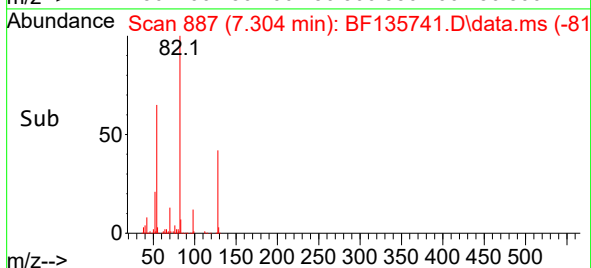
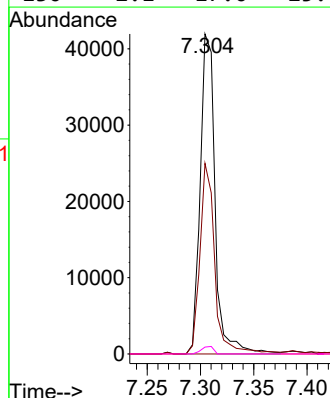
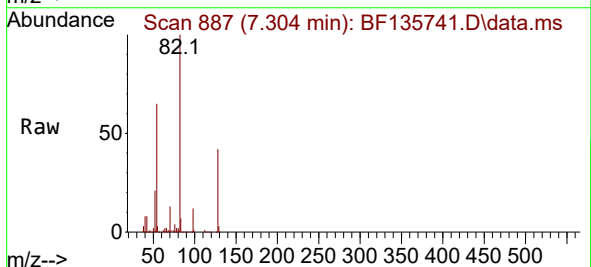
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

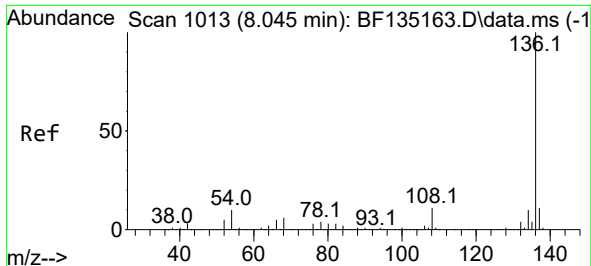
Tgt Ion: 99 Resp: 488152
Ion Ratio Lower Upper
99 100
42 23.2 17.9 26.9
71 35.3 27.0 40.6



#19
n-Nitroso-di-n-propylamine
Concen: 9.900 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.147 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion: 70 Resp: 41071
Ion Ratio Lower Upper
70 100
42 59.6 55.4 83.0
101 0.0 7.7 11.5#
130 2.1 17.0 25.6#

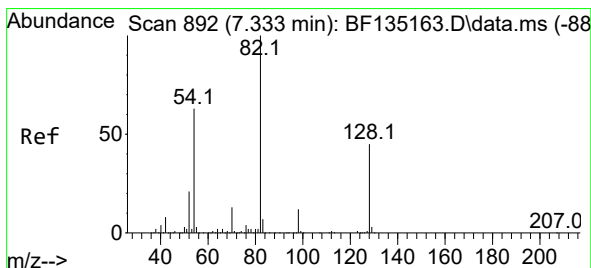
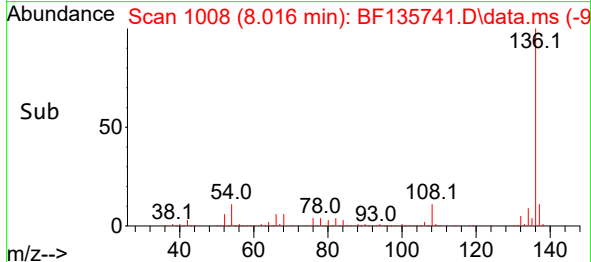
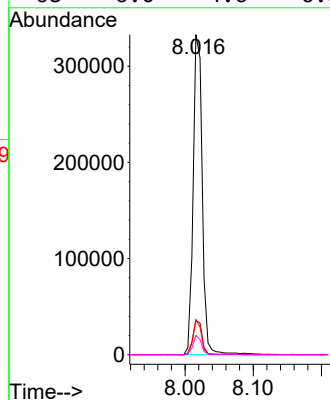
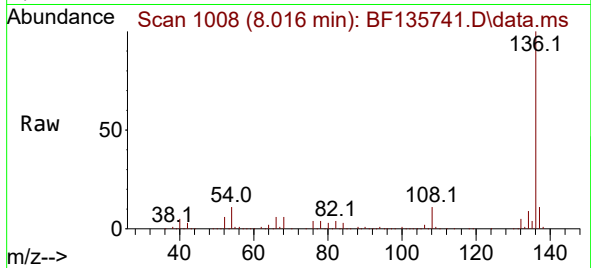




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1013
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

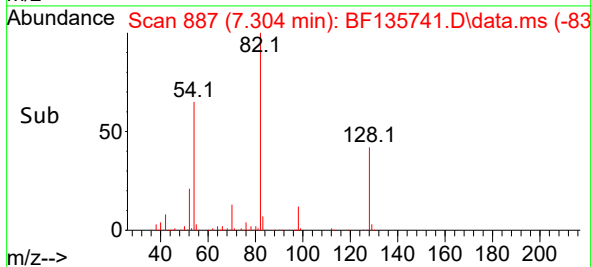
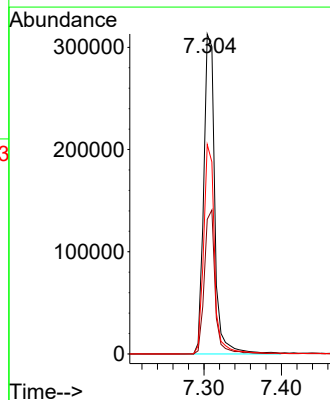
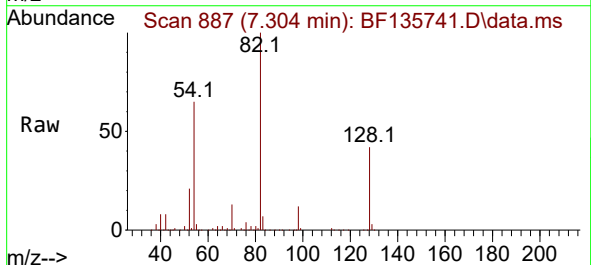
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

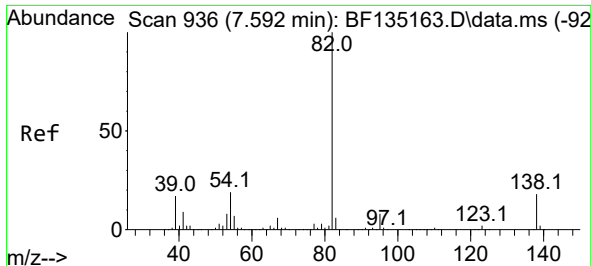
Tgt Ion:136 Resp: 306172
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 10.9 7.7 11.5
68 6.0 4.6 6.8



#23
Nitrobenzene-d5
Concen: 55.141 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion: 82 Resp: 310745
Ion Ratio Lower Upper
82 100
128 42.0 35.8 53.6
54 65.5 50.6 76.0

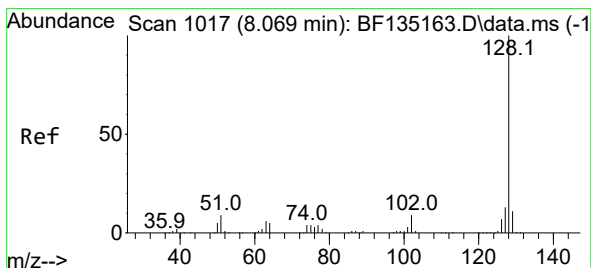
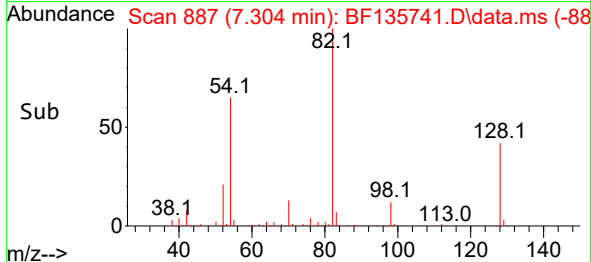
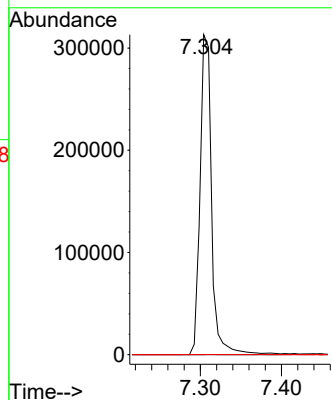
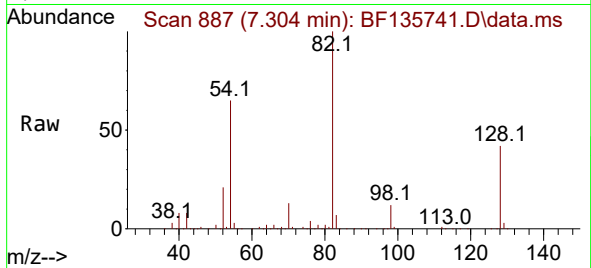




#25
Isophorone
Concen: 30.028 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.259 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

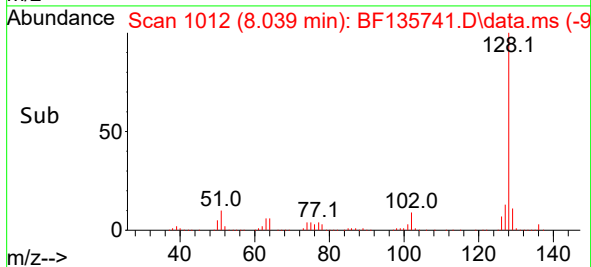
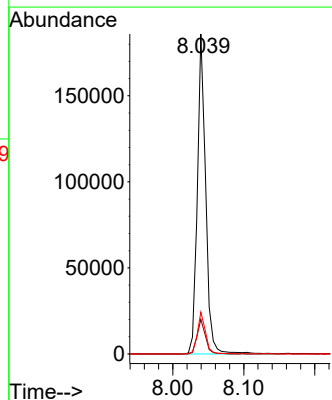
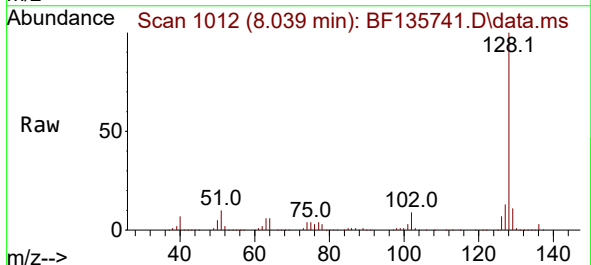
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

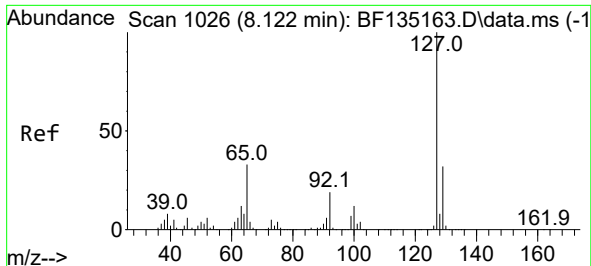
Tgt Ion: 82 Resp: 310741
Ion Ratio Lower Upper
82 100
95 0.0 6.0 9.0#
138 0.0 14.5 21.7#



#31
Naphthalene
Concen: 10.284 ng
RT: 8.039 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:128 Resp: 152984
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 13.1 10.7 16.1

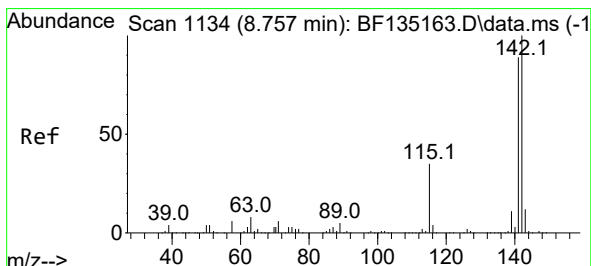
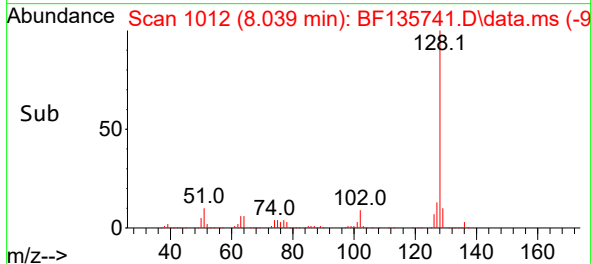
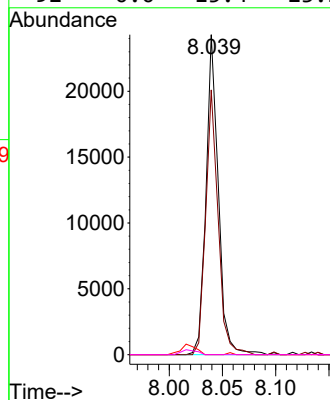
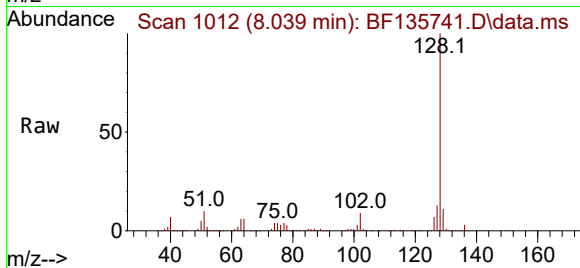




#33
4-Chloroaniline
Concen: 3.009 ng
RT: 8.039 min Scan# 11
Delta R.T. -0.059 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

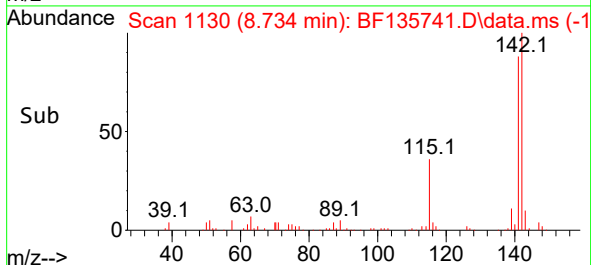
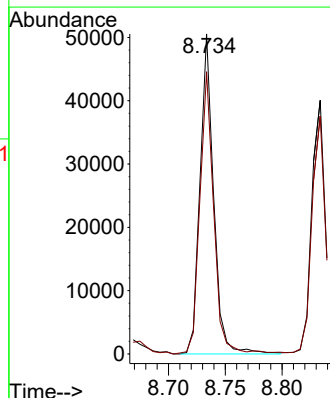
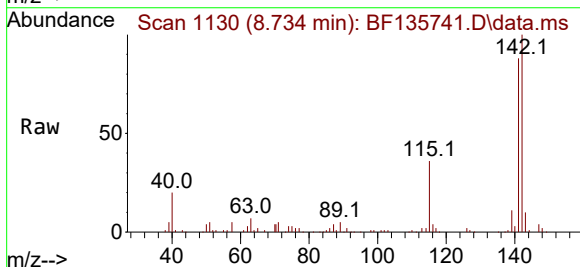
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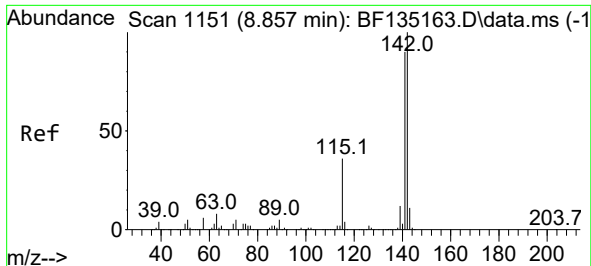
Tgt Ion:127 Resp: 19642
Ion Ratio Lower Upper
127 100
129 82.7 25.8 38.8#
65 0.0 26.6 39.8#
92 0.0 15.4 23.2#



#37
2-Methylnaphthalene
Concen: 4.212 ng
RT: 8.734 min Scan# 1130
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:142 Resp: 42123
Ion Ratio Lower Upper
142 100
141 88.2 71.0 106.6





#38

1-Methylnaphthalene

Concen: 3.766 ng

RT: 8.834 min Scan# 1147

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

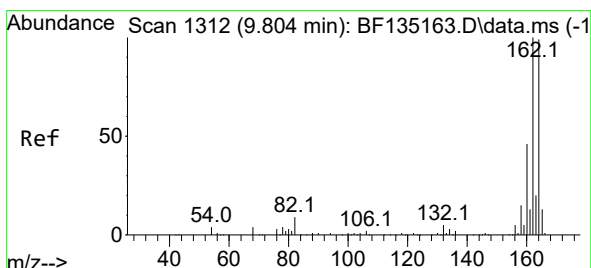
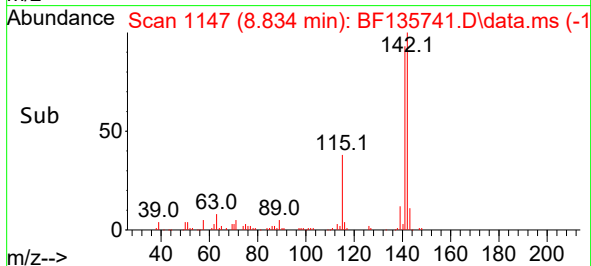
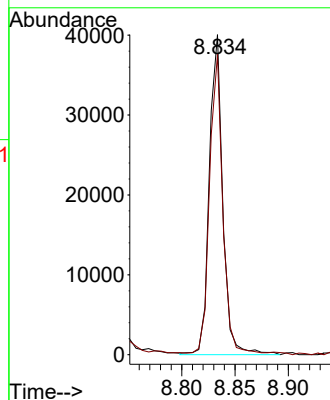
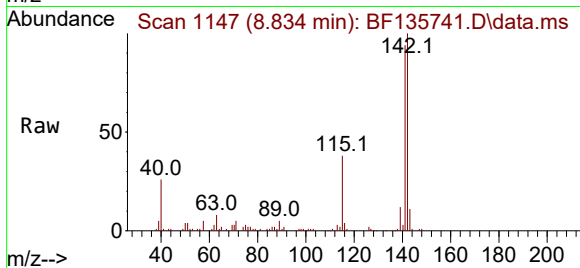
U-2(0-2IN)

Tgt Ion:142 Resp: 35255

Ion Ratio Lower Upper

142 100

141 93.8 72.4 108.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.775 min Scan# 1307

Delta R.T. -0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

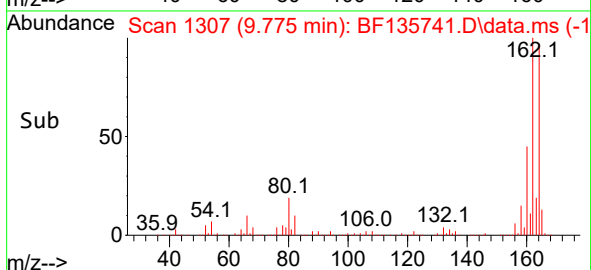
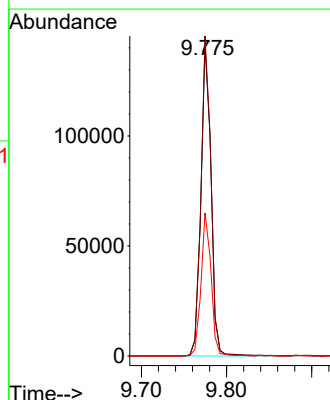
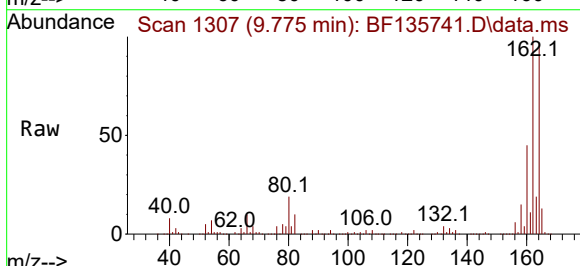
Tgt Ion:164 Resp: 116864

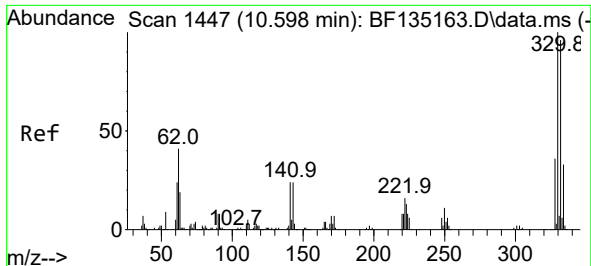
Ion Ratio Lower Upper

164 100

162 103.1 81.0 121.4

160 46.1 37.0 55.4





#42

2,4,6-Tribromophenol

Concen: 80.153 ng

RT: 10.575 min Scan# 1443

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

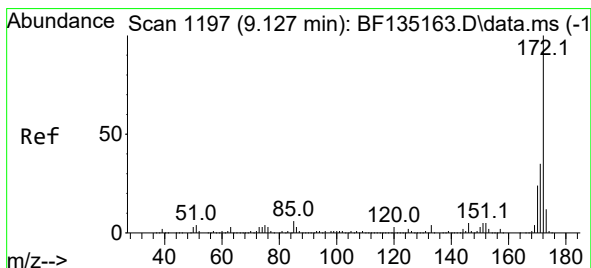
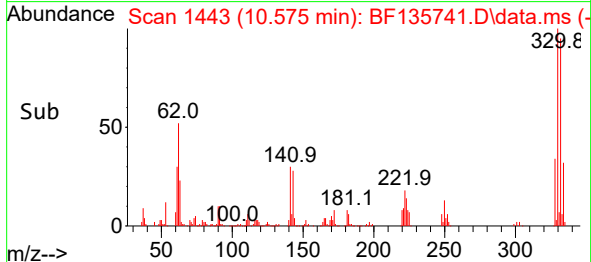
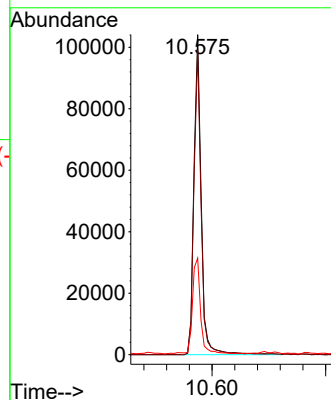
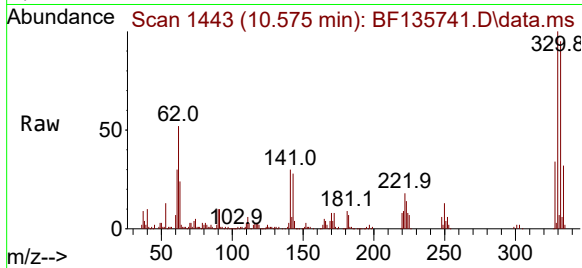
Tgt Ion:330 Resp: 93085

Ion Ratio Lower Upper

330 100

332 93.9 77.3 115.9

141 32.9 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 53.574 ng

RT: 9.098 min Scan# 1192

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

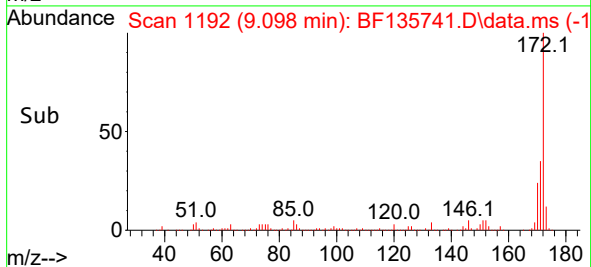
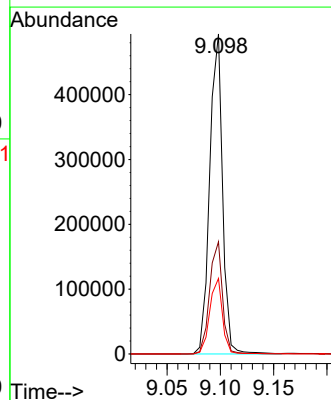
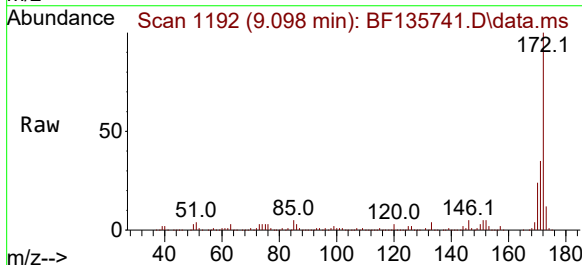
Tgt Ion:172 Resp: 414980

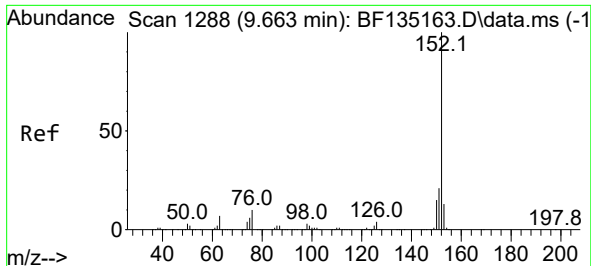
Ion Ratio Lower Upper

172 100

171 35.1 28.4 42.6

170 23.6 19.0 28.4





#49

Acenaphthylene

Concen: 9.786 ng

RT: 9.639 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

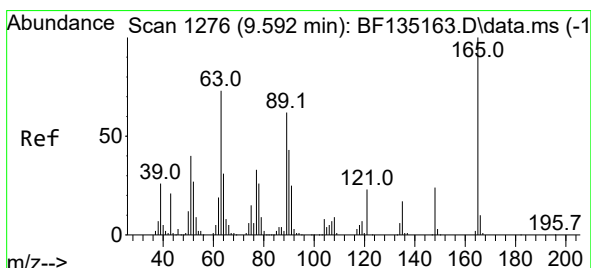
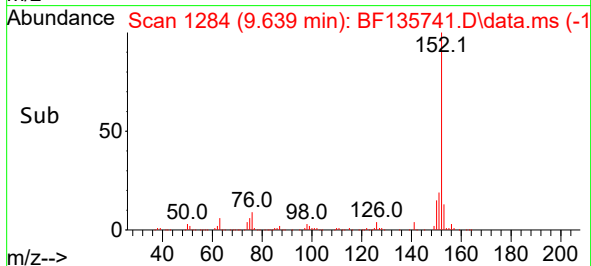
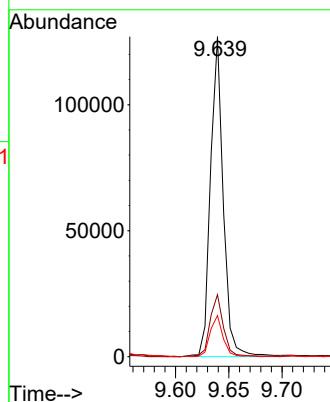
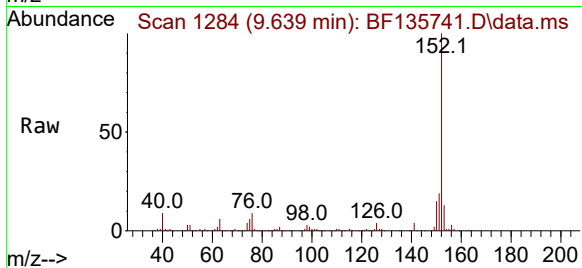
Tgt Ion:152 Resp: 105975

Ion Ratio Lower Upper

152 100

151 19.4 16.4 24.6

153 12.8 10.4 15.6



#51

2,6-Dinitrotoluene

Concen: 9.308 ng

RT: 9.775 min Scan# 1307

Delta R.T. 0.194 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

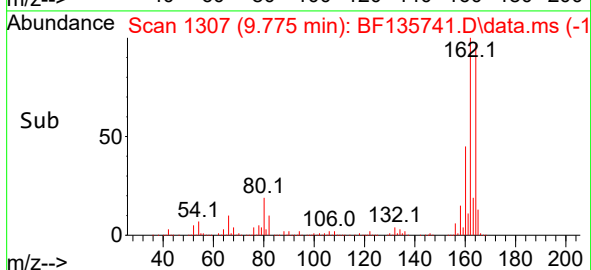
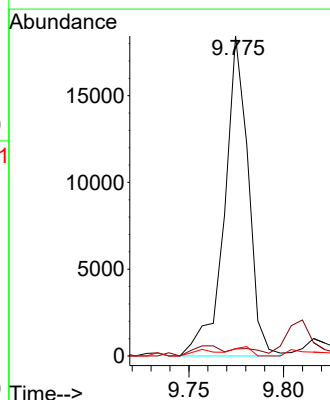
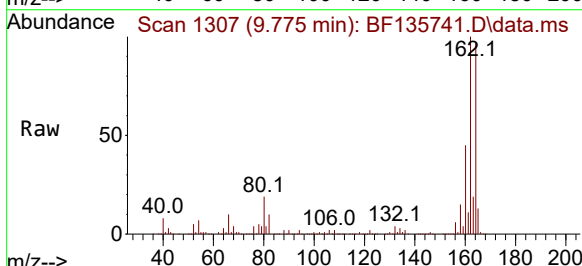
Tgt Ion:165 Resp: 16111

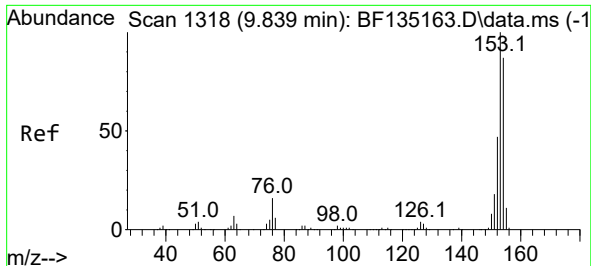
Ion Ratio Lower Upper

165 100

63 2.2 59.4 89.2#

89 2.3 49.8 74.8#

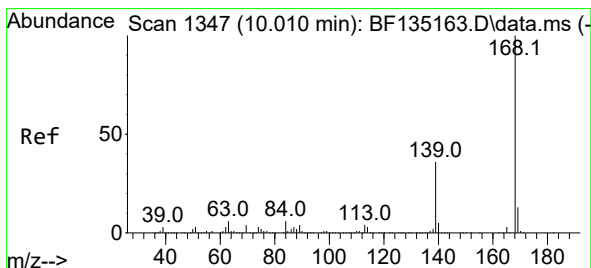
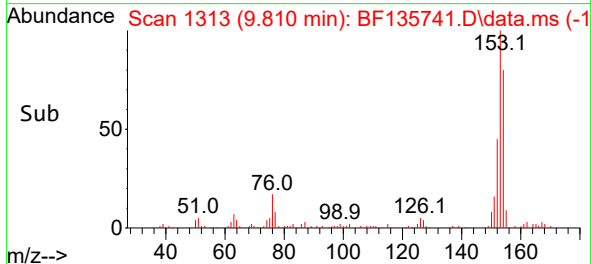
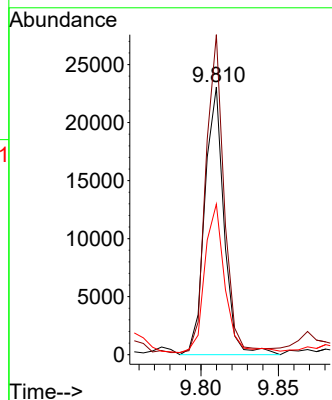
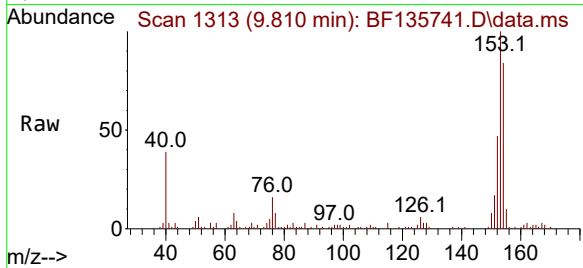




#52
Acenaphthene
Concen: 3.114 ng
RT: 9.810 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

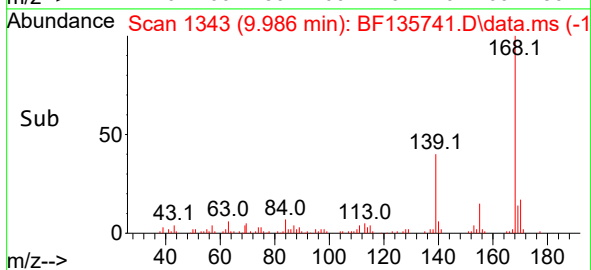
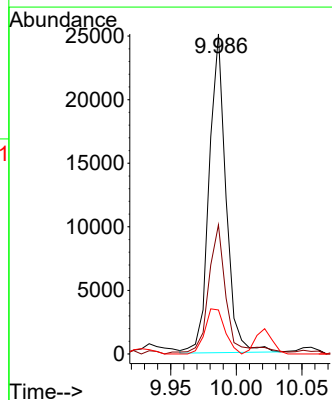
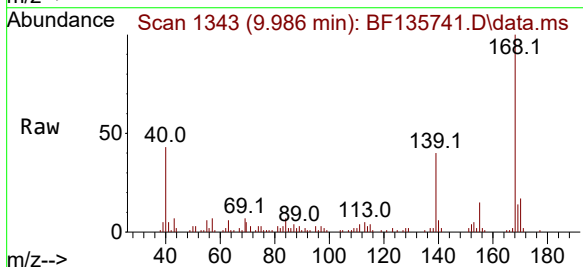
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

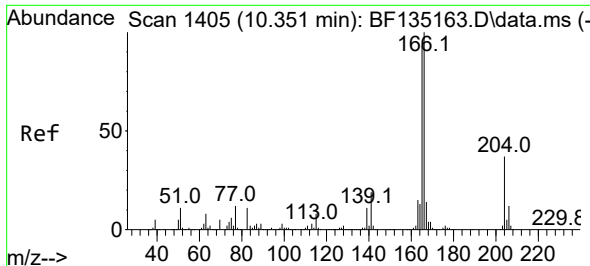
Tgt Ion:154 Resp: 19919
Ion Ratio Lower Upper
154 100
153 119.6 92.1 138.1
152 56.3 43.1 64.7



#55
Dibenzofuran
Concen: 2.296 ng
RT: 9.986 min Scan# 1343
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:168 Resp: 22413
Ion Ratio Lower Upper
168 100
139 40.3 29.0 43.6
169 13.7 10.4 15.6

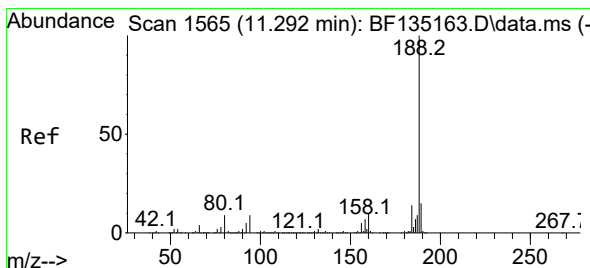
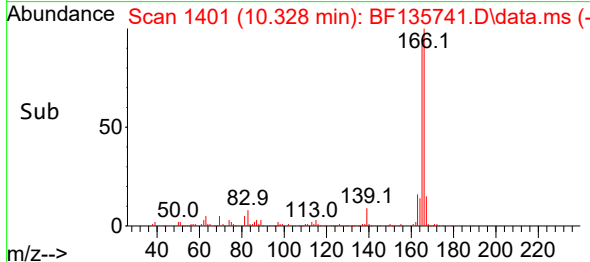
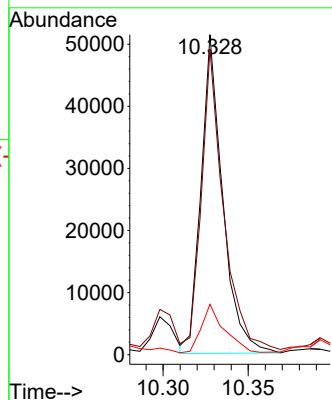
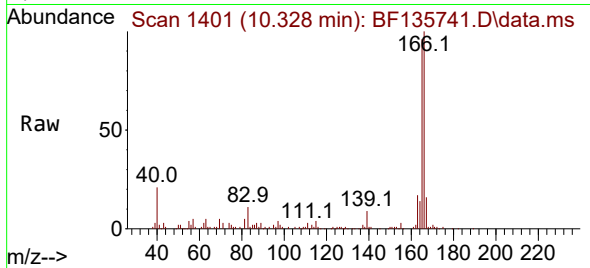




#58
Fluorene
Concen: 6.052 ng
RT: 10.328 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

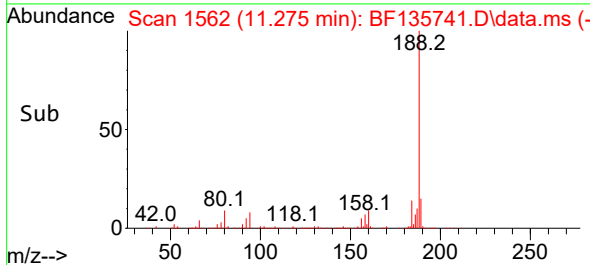
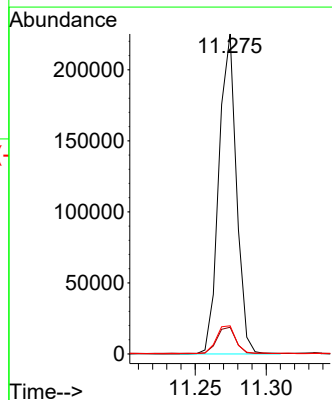
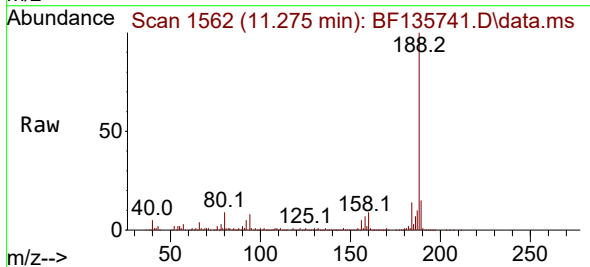
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

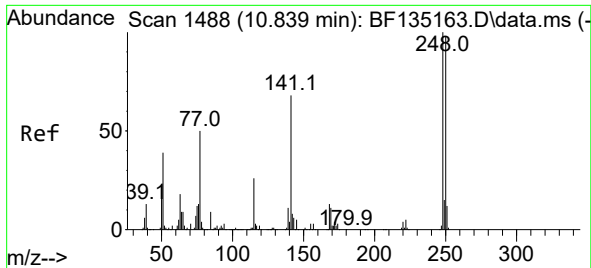
Tgt Ion:166 Resp: 45422
Ion Ratio Lower Upper
166 100
165 95.6 74.3 111.5
167 15.7 10.9 16.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.275 min Scan# 1562
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:188 Resp: 193426
Ion Ratio Lower Upper
188 100
94 8.4 7.0 10.6
80 8.8 7.5 11.3

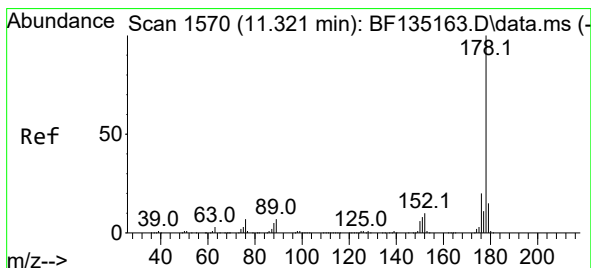
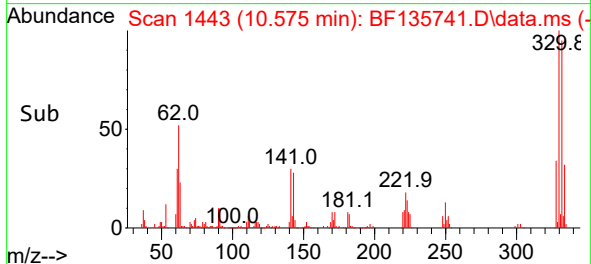
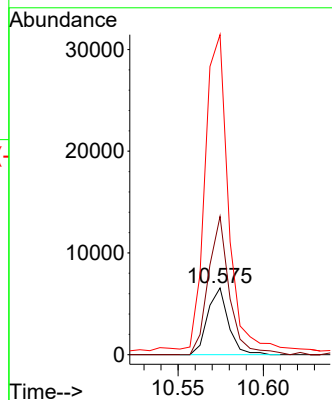
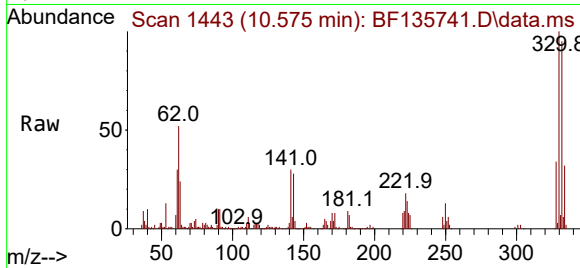




#67
4-Bromophenyl-phenylether
Concen: 2.891 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.241 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

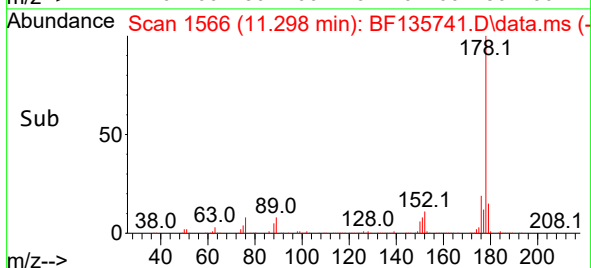
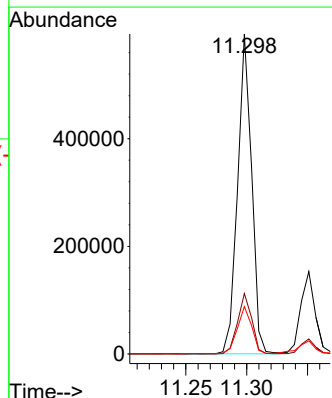
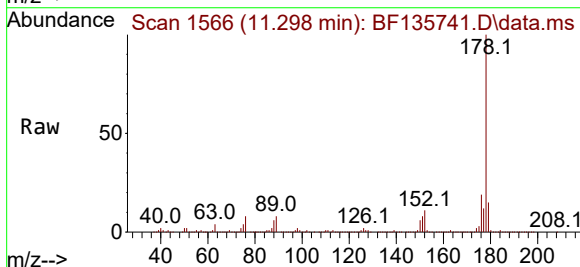
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

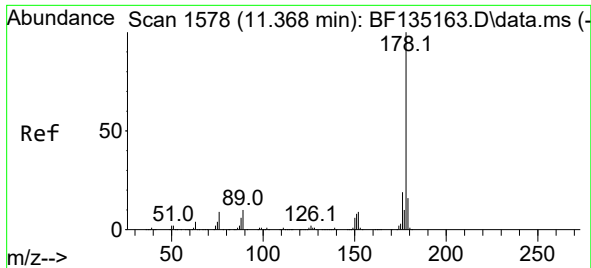
Tgt Ion:248 Resp: 5561
Ion Ratio Lower Upper
248 100
250 207.2 78.6 117.8#
141 479.3 54.2 81.2#



#71
Phenanthrene
Concen: 51.902 ng
RT: 11.298 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:178 Resp: 474811
Ion Ratio Lower Upper
178 100
176 18.9 15.6 23.4
179 14.8 12.0 18.0

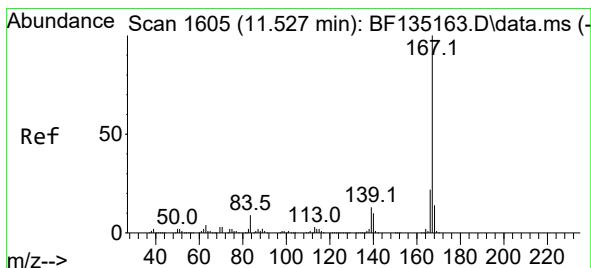
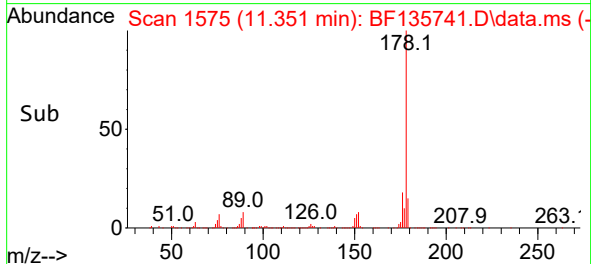
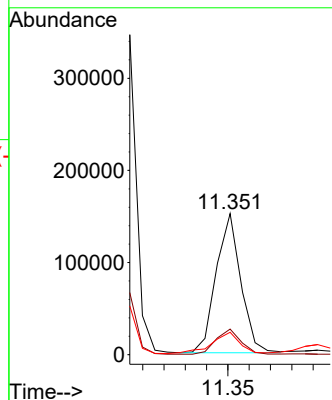
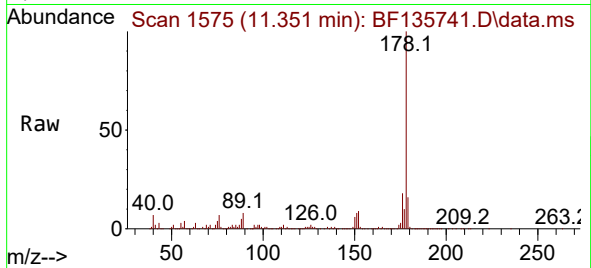




#72
 Anthracene
 Concen: 12.955 ng
 RT: 11.351 min Scan# 1575
 Delta R.T. 0.000 min
 Lab File: BF135741.D
 Acq: 12 Oct 2023 18:33

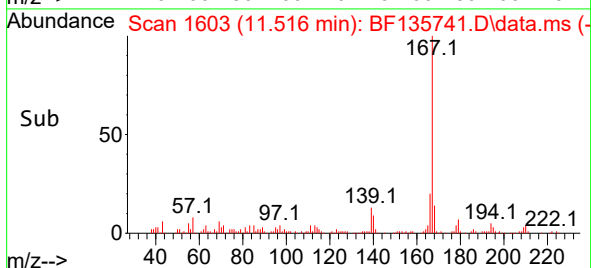
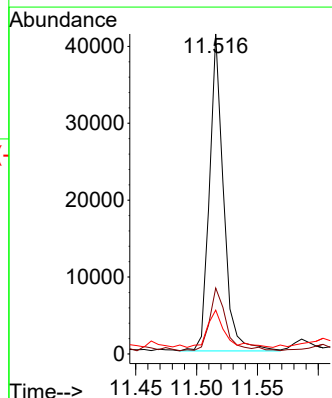
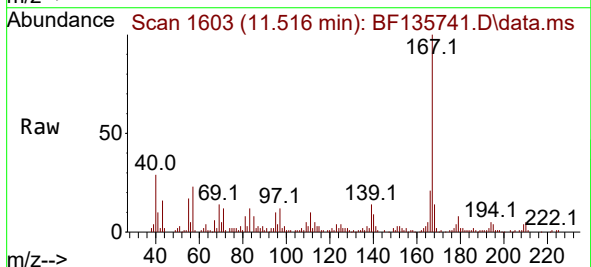
Instrument :
 BNA_F
 ClientSampleId :
 U-2(0-2IN)

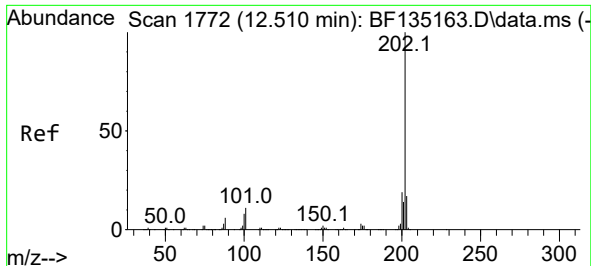
Tgt Ion:178 Resp: 121817
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.4 23.2
 179 15.9 12.6 19.0



#73
 Carbazole
 Concen: 3.891 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. 0.000 min
 Lab File: BF135741.D
 Acq: 12 Oct 2023 18:33

Tgt Ion:167 Resp: 33310
 Ion Ratio Lower Upper
 167 100
 166 20.6 17.4 26.0
 139 13.7 10.6 15.8

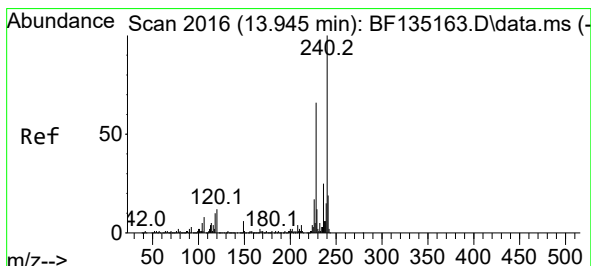
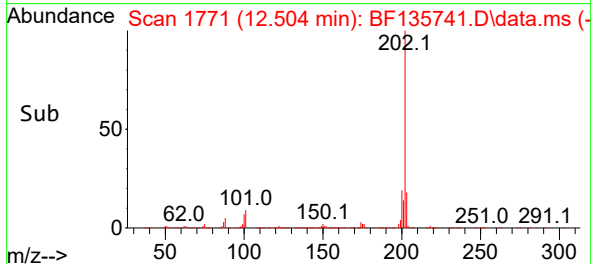
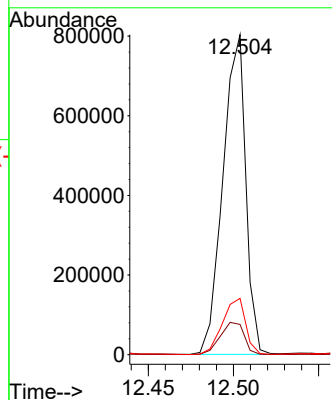
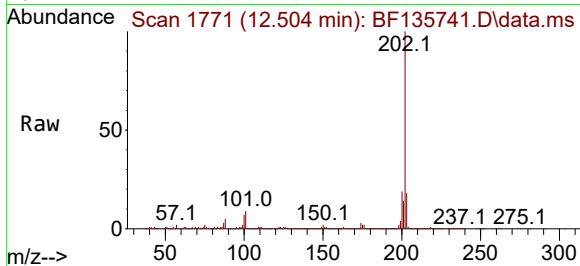




#75
Fluoranthene
Concen: 78.646 ng
RT: 12.504 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

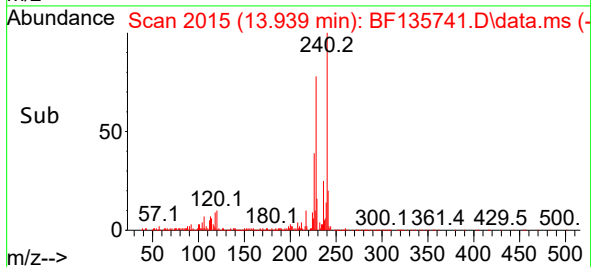
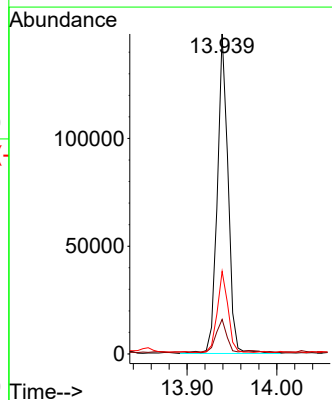
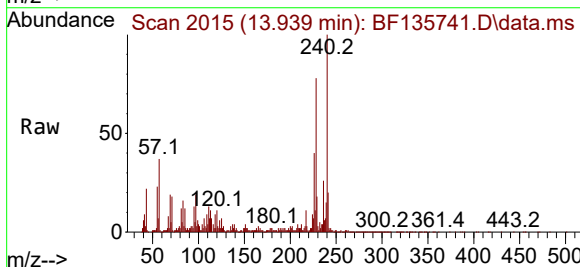
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

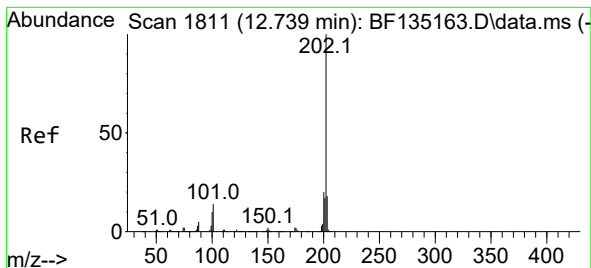
Tgt Ion:202 Resp: 749679
Ion Ratio Lower Upper
202 100
101 9.5 0.0 31.3
203 17.6 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:240 Resp: 123693
Ion Ratio Lower Upper
240 100
120 10.8 9.4 14.2
236 25.8 19.8 29.8





#78

Pyrene

Concen: 62.346 ng

RT: 12.733 min Scan# 1811

Delta R.T. 0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

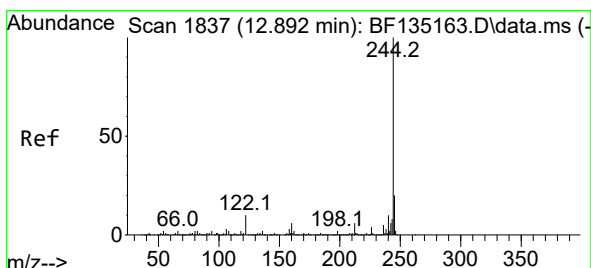
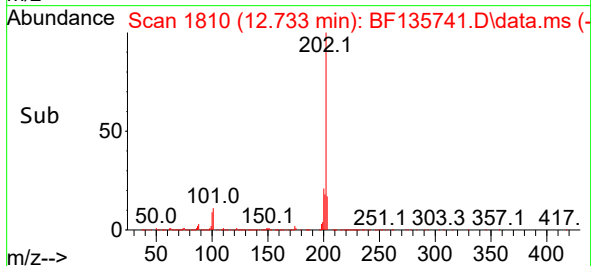
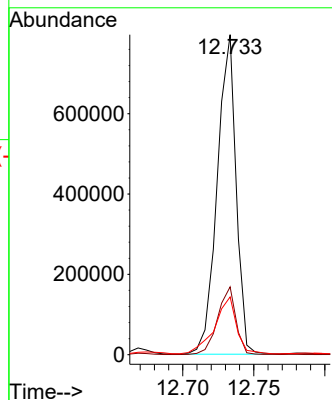
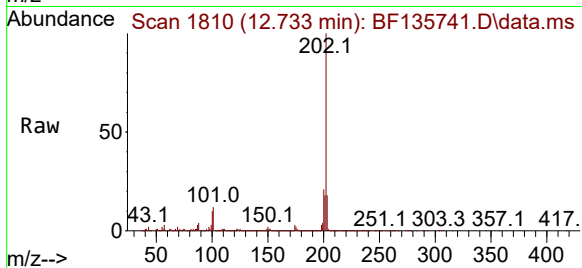
Tgt Ion:202 Resp: 734220

Ion Ratio Lower Upper

202 100

200 21.2 16.2 24.2

203 18.1 14.2 21.4



#79

Terphenyl-d14

Concen: 35.250 ng

RT: 12.869 min Scan# 1833

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

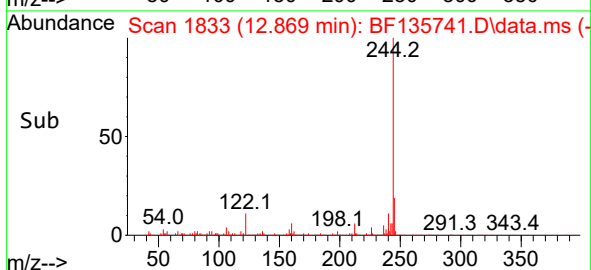
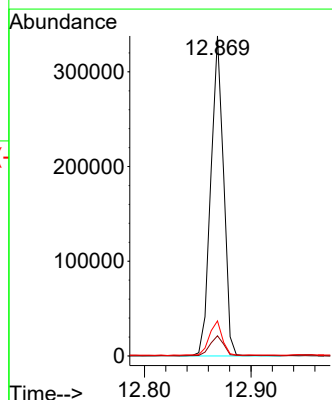
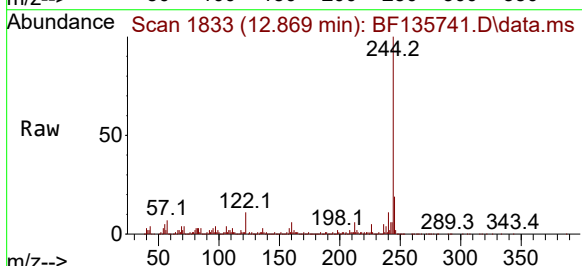
Tgt Ion:244 Resp: 281271

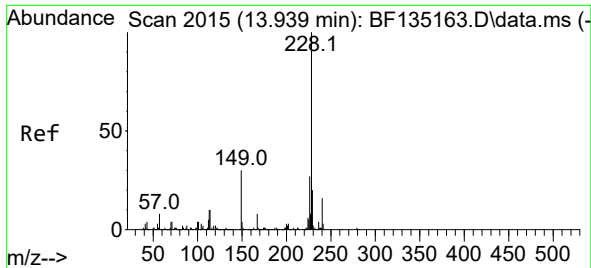
Ion Ratio Lower Upper

244 100

212 6.3 5.1 7.7

122 10.9 7.9 11.9

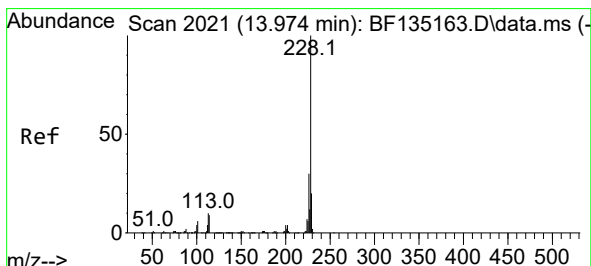
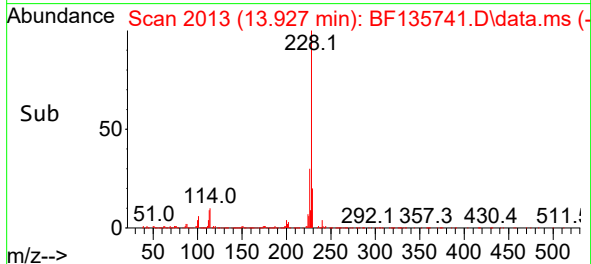
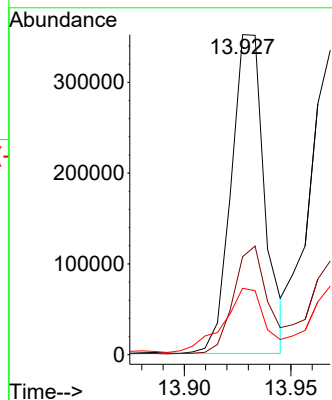
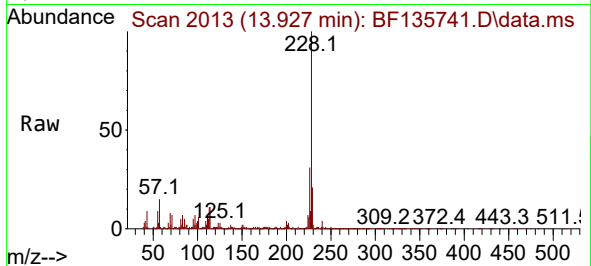




#81
Benzo(a)anthracene
Concen: 48.142 ng
RT: 13.927 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

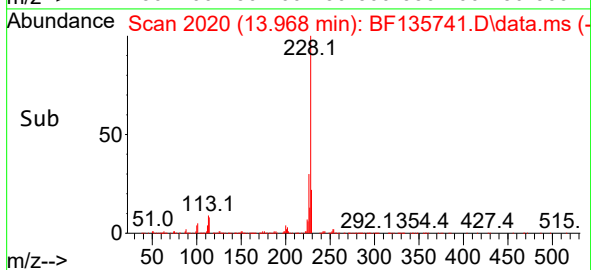
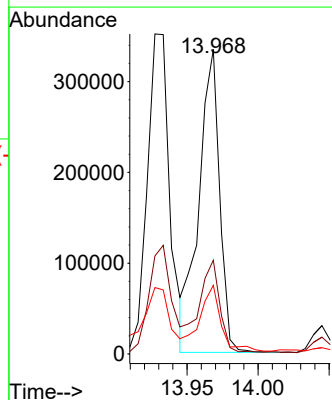
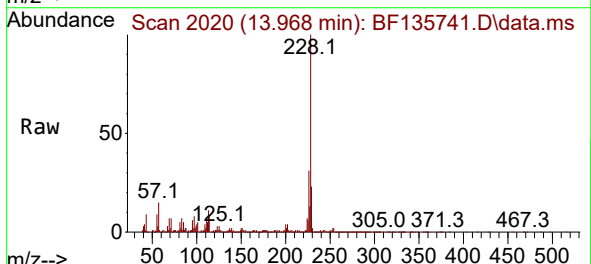
Instrument :
BNA_F
ClientSampleId :
U-2(0-2IN)

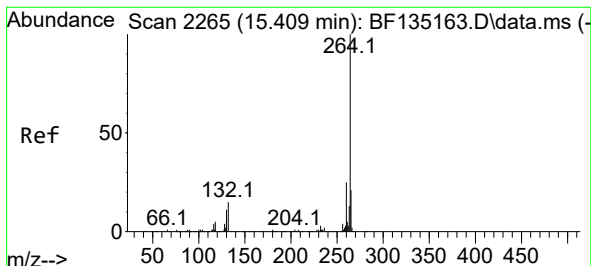
Tgt Ion:228 Resp: 384519
Ion Ratio Lower Upper
228 100
226 30.6 21.7 32.5
229 20.8 15.8 23.8



#83
Chrysene
Concen: 42.769 ng
RT: 13.968 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF135741.D
Acq: 12 Oct 2023 18:33

Tgt Ion:228 Resp: 339637
Ion Ratio Lower Upper
228 100
226 30.8 24.3 36.5
229 22.5 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

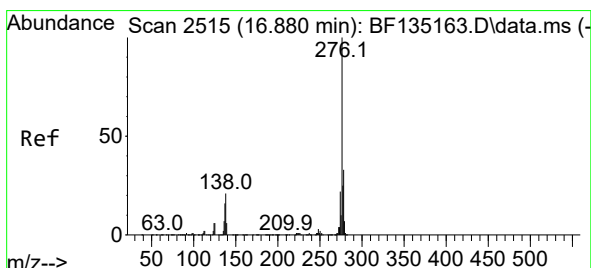
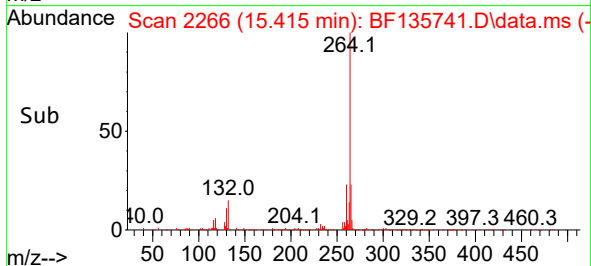
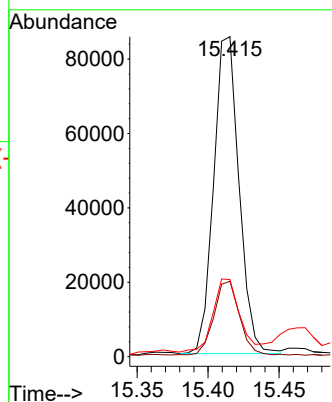
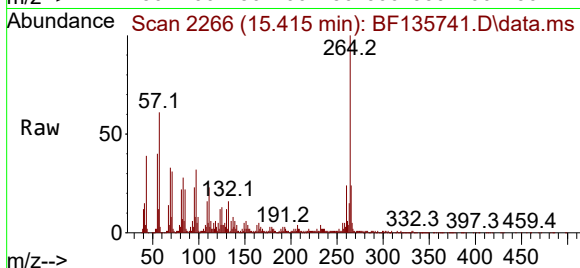
Tgt Ion:264 Resp: 105835

Ion Ratio Lower Upper

264 100

260 23.5 19.8 29.6

265 24.1 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.096 ng

RT: 16.909 min Scan# 2520

Delta R.T. 0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

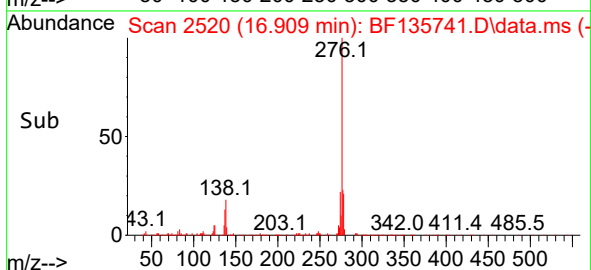
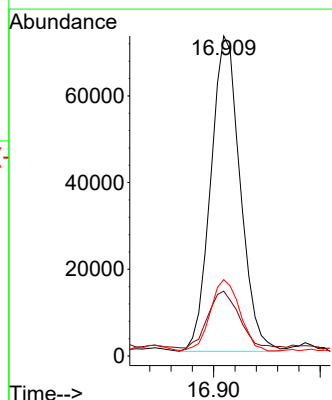
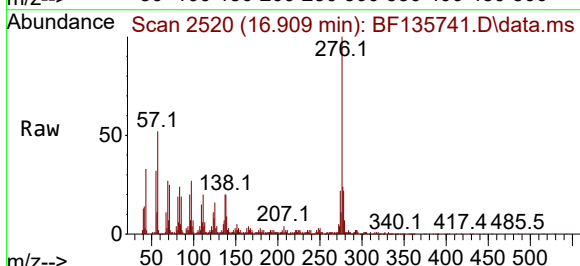
Tgt Ion:276 Resp: 139450

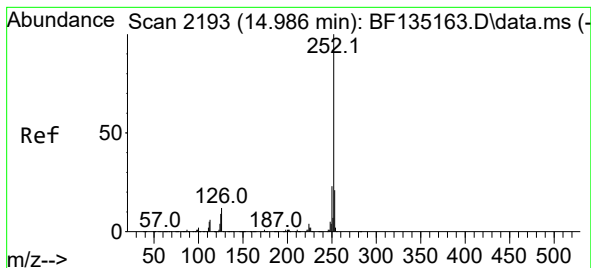
Ion Ratio Lower Upper

276 100

138 20.2 19.2 28.8

277 22.5 19.7 29.5





#88

Benzo(b)fluoranthene

Concen: 77.783 ng

RT: 14.986 min Scan# 2193

Delta R.T. 0.006 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

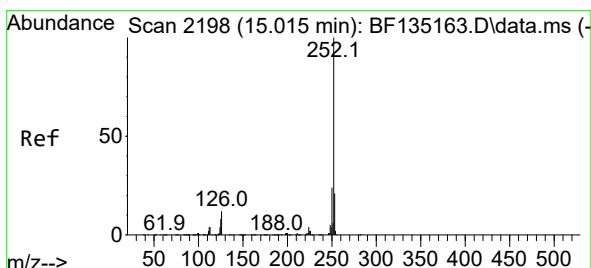
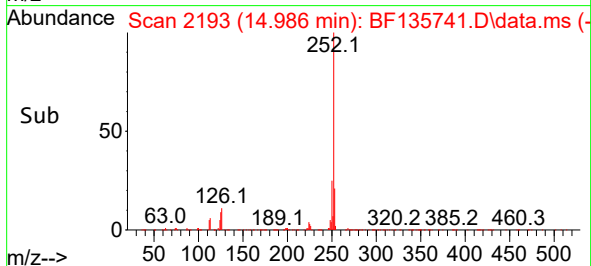
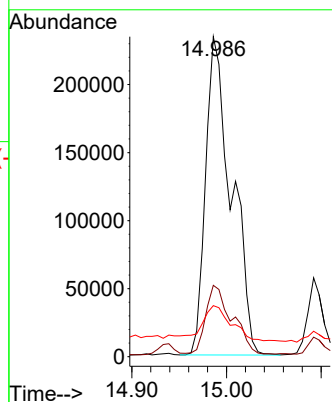
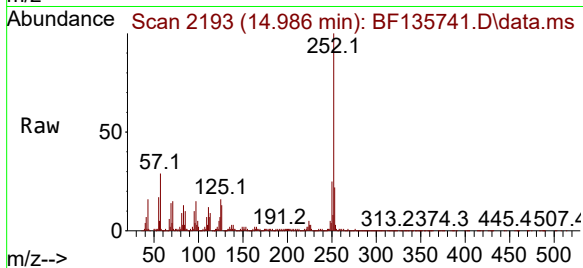
Tgt Ion:252 Resp: 445637

Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

125 15.9 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 78.742 ng

RT: 14.986 min Scan# 2193

Delta R.T. -0.018 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

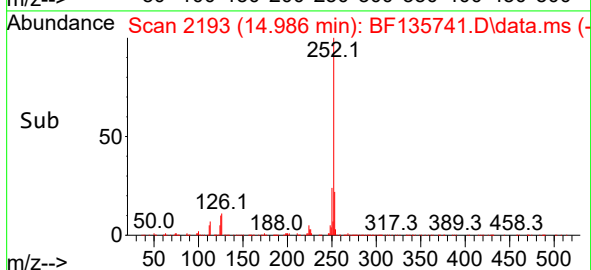
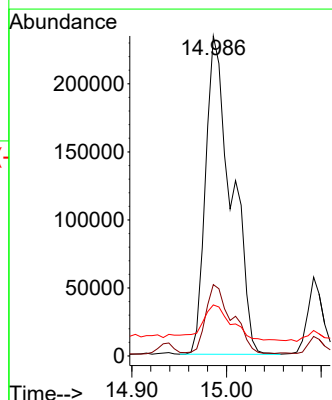
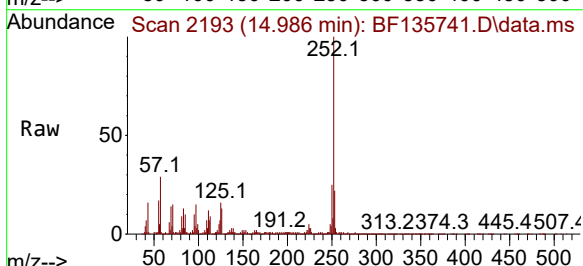
Tgt Ion:252 Resp: 445637

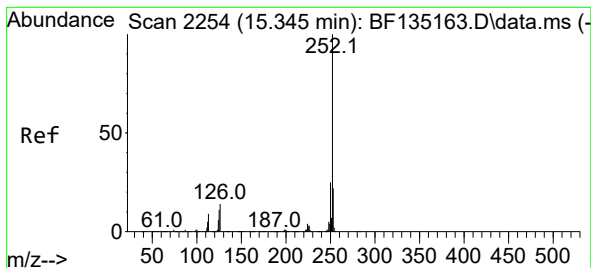
Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 15.9 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 46.172 ng

RT: 15.357 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)

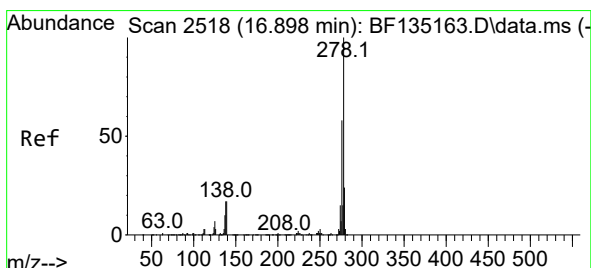
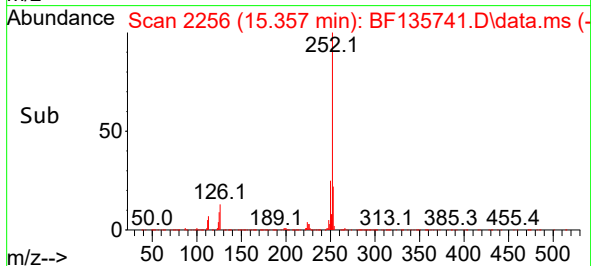
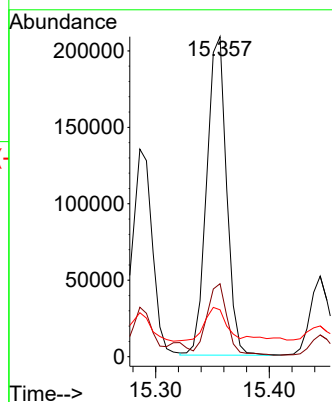
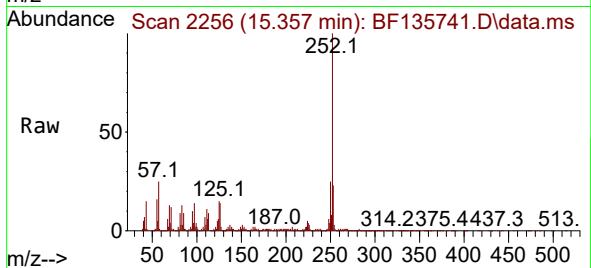
Tgt Ion:252 Resp: 252265

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 14.7 9.2 13.8#



#91

Dibenzo(a,h)anthracene

Concen: 6.868 ng

RT: 16.909 min Scan# 2520

Delta R.T. 0.000 min

Lab File: BF135741.D

Acq: 12 Oct 2023 18:33

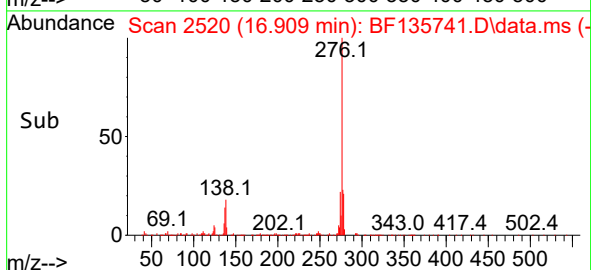
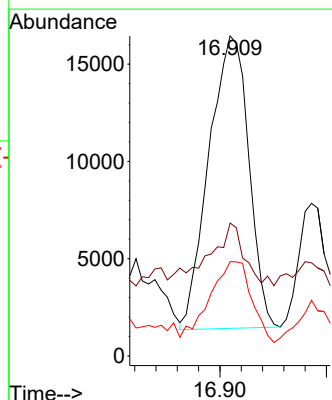
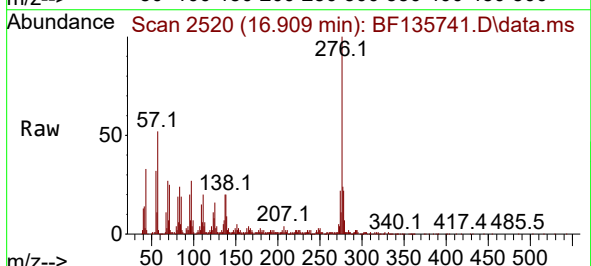
Tgt Ion:278 Resp: 38995

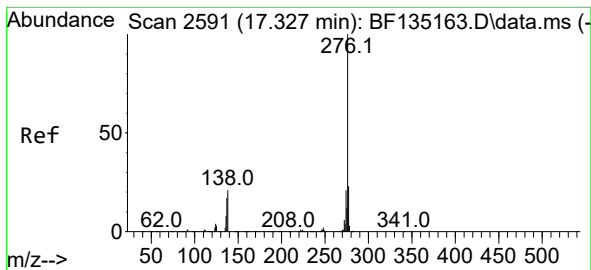
Ion Ratio Lower Upper

278 100

139 41.5 13.4 20.0#

279 29.4 19.0 28.6#





#92

Benzo(g,h,i)perylene

Concen: 20.615 ng

RT: 17.362 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF135741.D

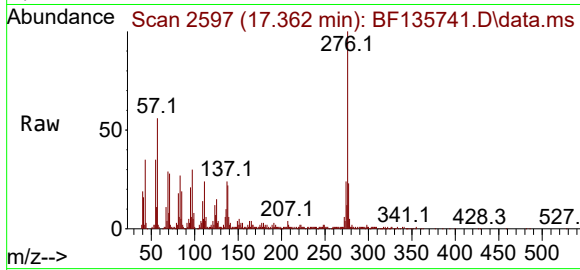
Acq: 12 Oct 2023 18:33

Instrument :

BNA_F

ClientSampleId :

U-2(0-2IN)



Tgt Ion:276 Resp: 122244

Ion Ratio Lower Upper

276 100

277 22.7 18.8 28.2

138 21.9 16.9 25.3

