

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082823\
 Data File : BF134974.D
 Acq On : 28 Aug 2023 18:09
 Operator : CG\JU
 Sample : 04110-14DL 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-21(3-4)DL

Quant Time: Aug 29 03:51:08 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 28 02:45:19 2023
 Response via : Initial Calibration

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

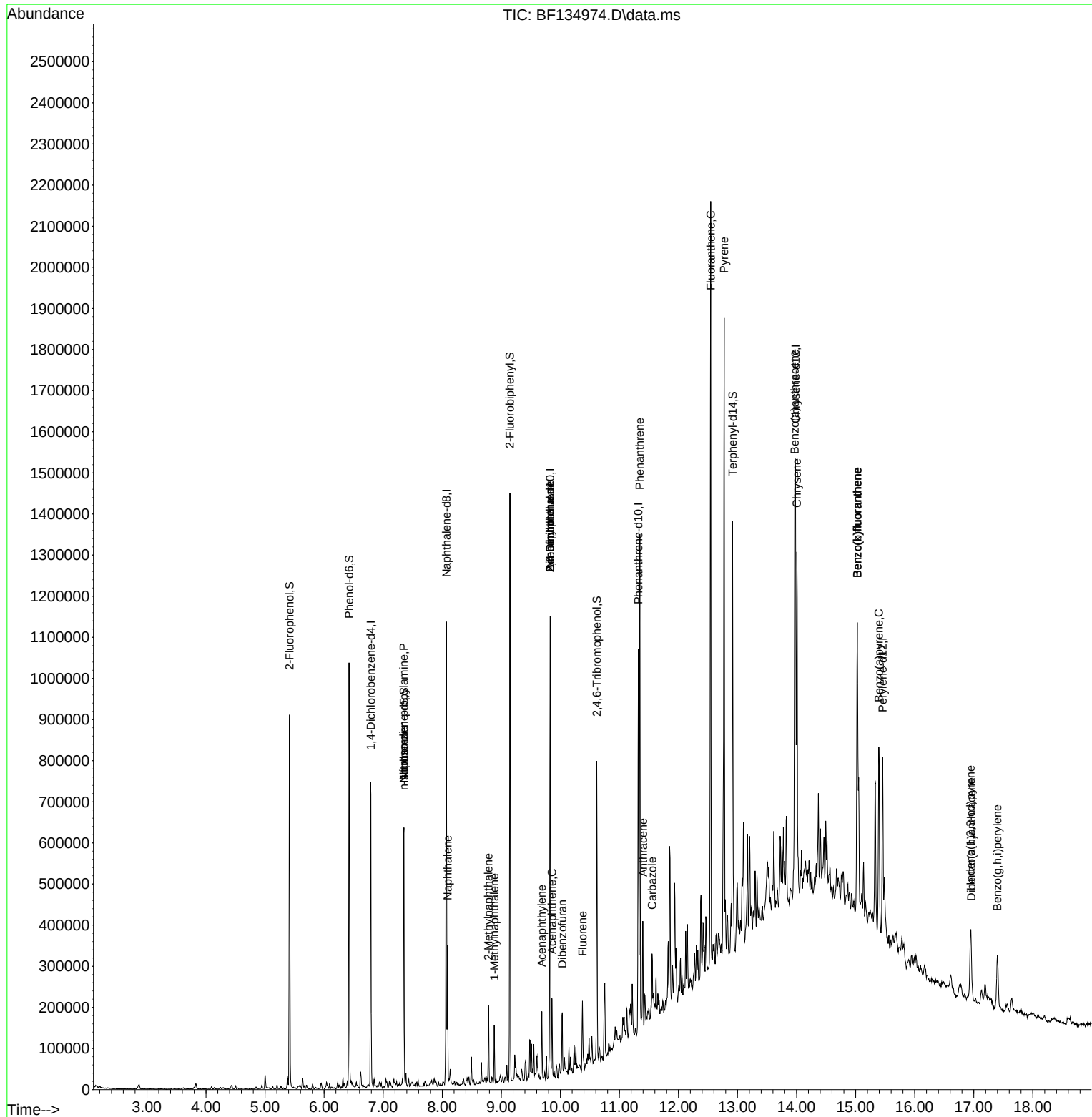
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	108210	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	425854	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	202228	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	320204	20.000	ng	0.00
76) Chrysene-d12	13.980	240	228101	20.000	ng	0.00
86) Perylene-d12	15.457	264	195170	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	245172	36.130	ng	0.00
7) Phenol-d6	6.422	99	311898	35.970	ng	-0.02
23) Nitrobenzene-d5	7.351	82	193522	25.041	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	71760	30.129	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	375333	28.692	ng	-0.01
79) Terphenyl-d14	12.916	244	312100	18.819	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.346	70	25891	5.113	ng	# 80
25) Isophorone	7.351	82	192000	13.305	ng	# 64
31) Naphthalene	8.093	128	135740	6.384	ng	98
37) 2-Methylnaphthalene	8.781	142	45766	3.227	ng	99
38) 1-Methylnaphthalene	8.881	142	31163	2.350	ng	100
49) Acenaphthylene	9.687	152	52717	2.871	ng	98
50) Dimethylphthalate	9.828	163	41637	2.892	ng	# 1
51) 2,6-Dinitrotoluene	9.828	165	28421	8.952	ng	# 29
52) Acenaphthene	9.857	154	33765	2.919	ng	99
55) Dibenzofuran	10.034	168	42416	2.519	ng	95
57) 2,4-Dinitrotoluene	9.828	165	28421	7.239	ng	# 25
58) Fluorene	10.375	166	36850	2.885	ng	96
71) Phenanthrene	11.345	178	396469	23.628	ng	99
72) Anthracene	11.398	178	106425	6.190	ng	99
73) Carbazole	11.551	167	59071	4.170	ng	97
75) Fluoranthene	12.545	202	692034	43.528	ng	99
78) Pyrene	12.775	202	628606	25.992	ng	100
81) Benzo(a)anthracene	13.969	228	350271	22.507	ng	# 92
83) Chrysene	14.004	228	343950	22.400	ng	96
87) Indeno(1,2,3-cd)pyrene	16.945	276	120813	8.660	ng	98
88) Benzo(b)fluoranthene	15.027	252	494816	44.937	ng	100
89) Benzo(k)fluoranthene	15.027	252	494816	45.762	ng	98
90) Benzo(a)pyrene	15.392	252	223923	20.371	ng	95
91) Dibenzo(a,h)anthracene	16.957	278	31923	2.828	ng	# 91
92) Benzo(g,h,i)perylene	17.398	276	109742	9.497	ng	97

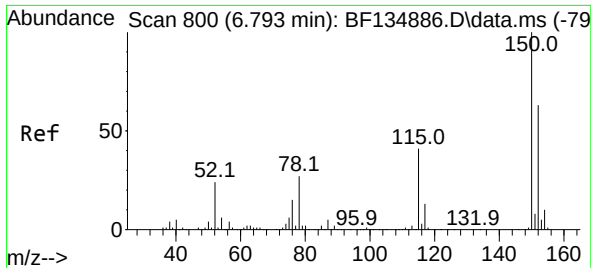
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
TP-21(3-4)DL

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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 28 02:45:19 2023
Response via : Initial Calibration

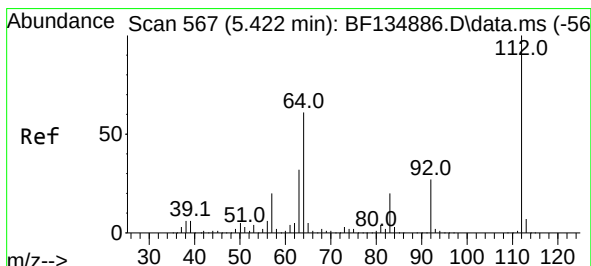
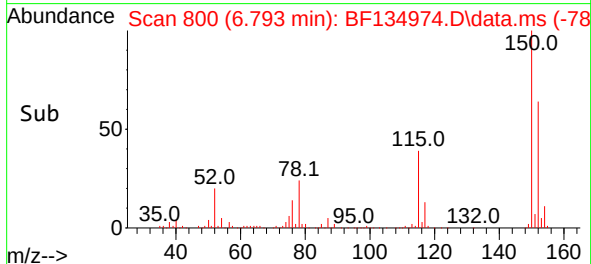
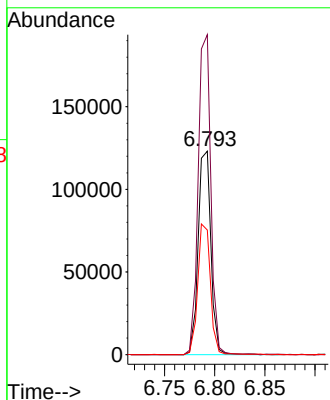
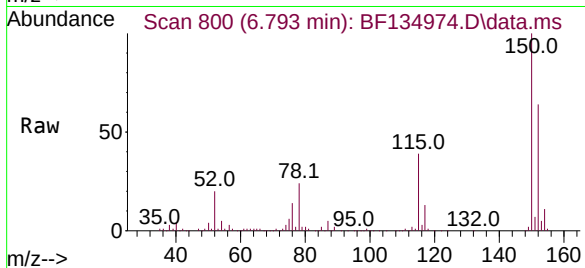




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 800
Delta R.T. -0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

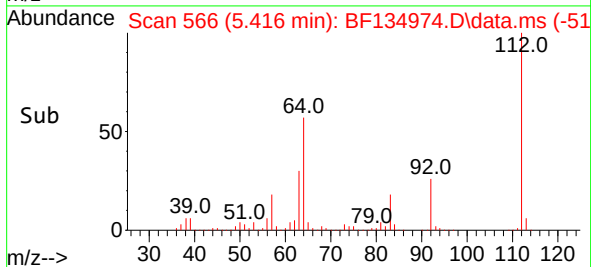
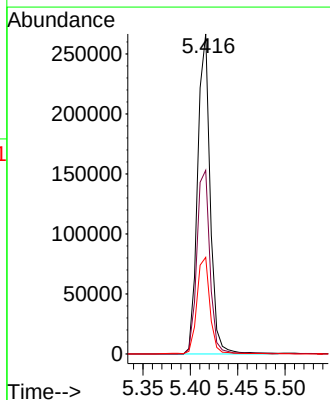
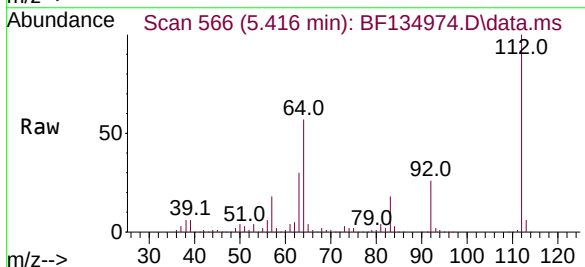
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

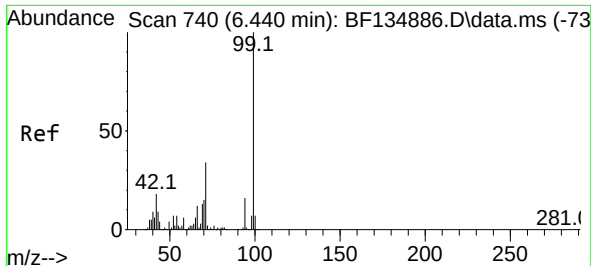
Tgt Ion:152 Resp: 108210
Ion Ratio Lower Upper
152 100
150 157.3 126.1 189.1
115 61.2 51.1 76.7



#5
2-Fluorophenol
Concen: 36.130 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:112 Resp: 245172
Ion Ratio Lower Upper
112 100
64 57.4 48.6 73.0
63 30.2 25.7 38.5

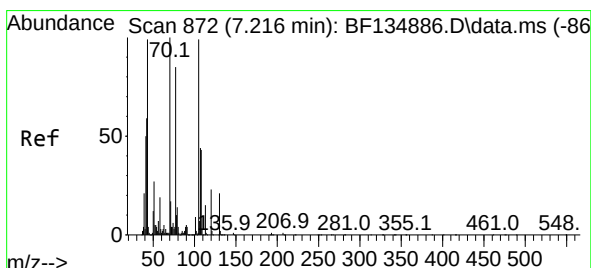
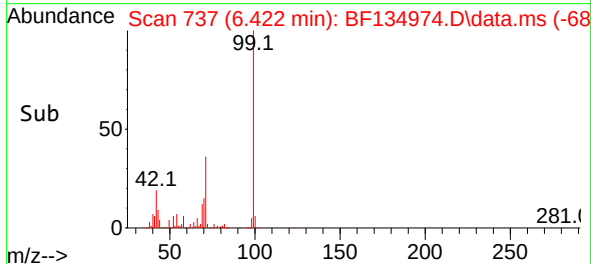
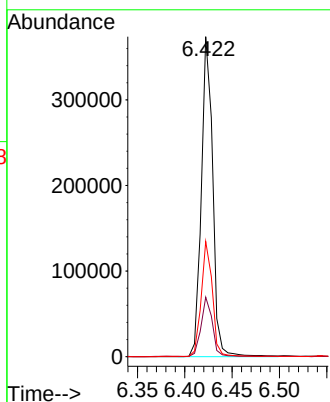
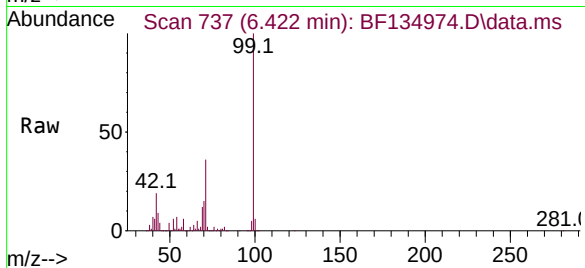




#7
Phenol-d6
Concen: 35.970 ng
RT: 6.422 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

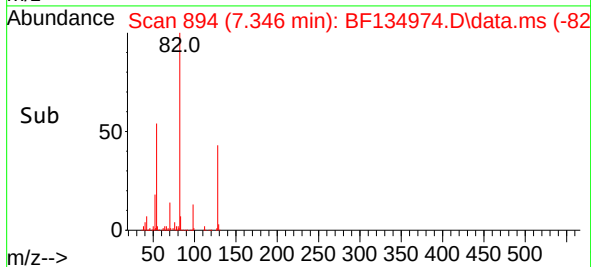
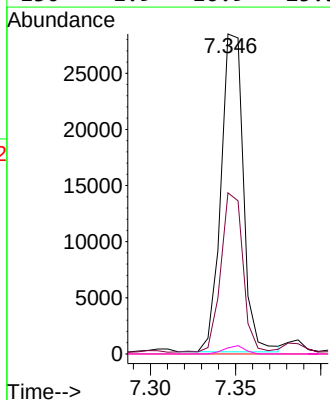
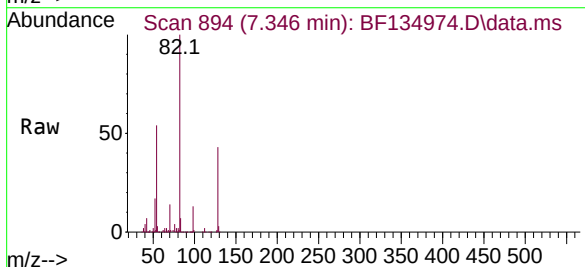
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

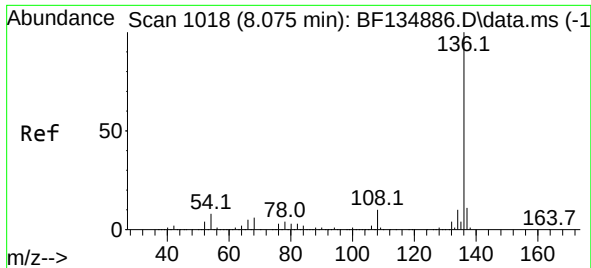
Tgt Ion: 99 Resp: 311898
Ion Ratio Lower Upper
99 100
42 18.6 14.6 22.0
71 36.0 27.6 41.4



#19
n-Nitroso-di-n-propylamine
Concen: 5.113 ng
RT: 7.346 min Scan# 894
Delta R.T. 0.129 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion: 70 Resp: 25891
Ion Ratio Lower Upper
70 100
42 50.3 46.9 70.3
101 0.0 7.5 11.3#
130 1.9 16.9 25.3#



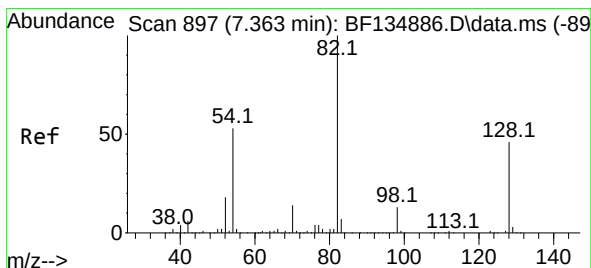
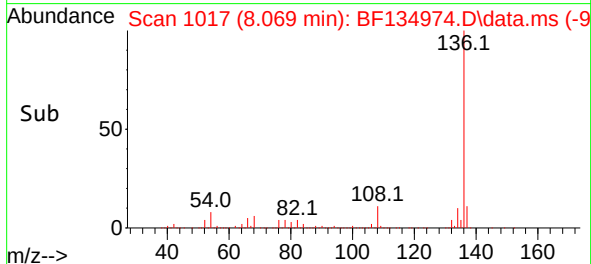
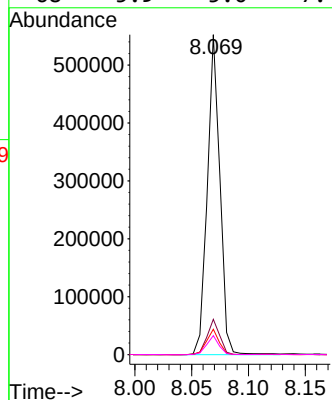
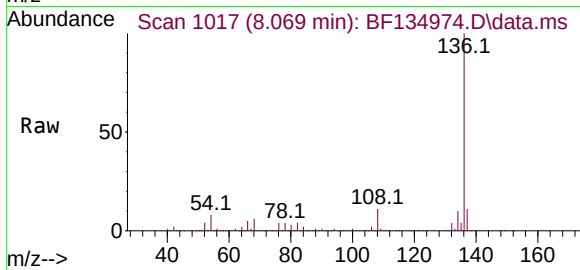


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

Tgt Ion:136 Resp: 425854

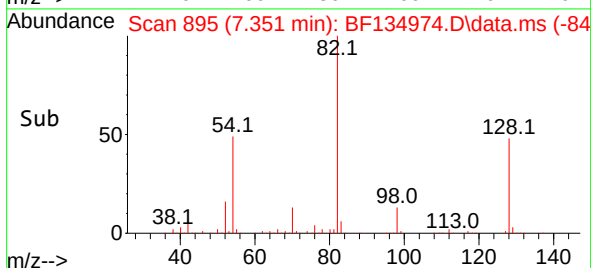
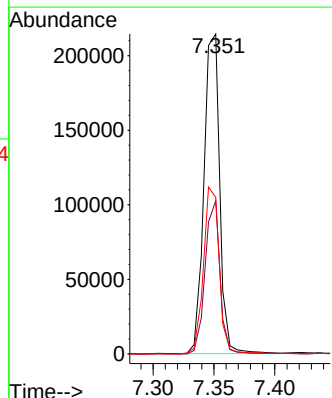
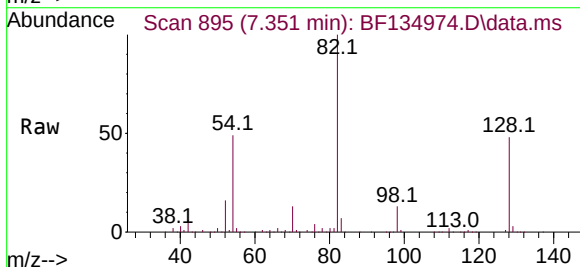
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.9	6.6	9.8
68	5.9	5.0	7.4

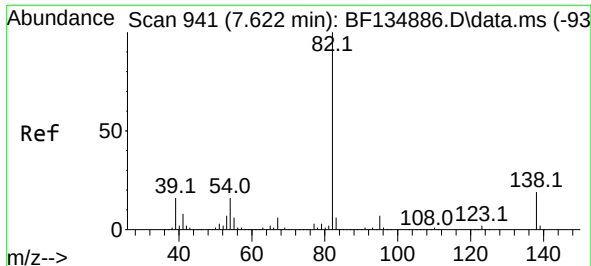


#23
Nitrobenzene-d5
Concen: 25.041 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion: 82 Resp: 193522

Ion	Ratio	Lower	Upper
82	100		
128	47.8	36.6	54.8
54	48.9	42.6	63.8

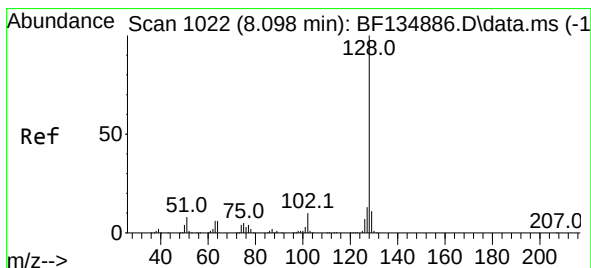
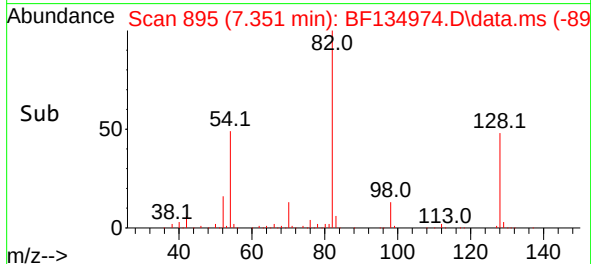
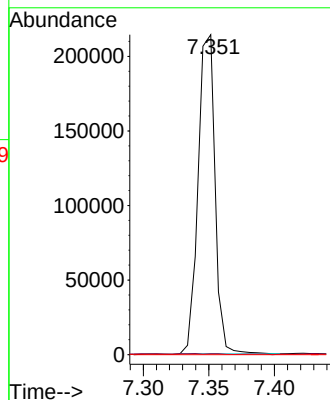
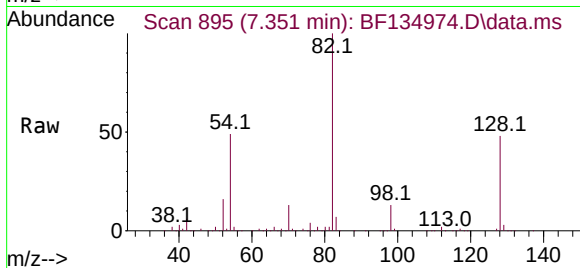




#25
Isophorone
Concen: 13.305 ng
RT: 7.351 min Scan# 89
Delta R.T. -0.271 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

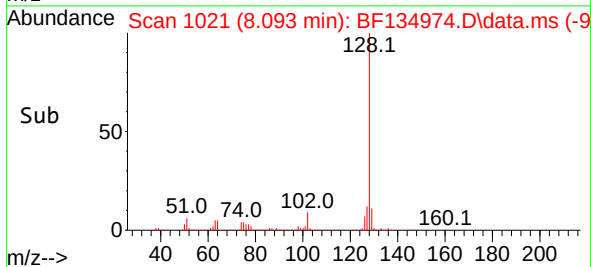
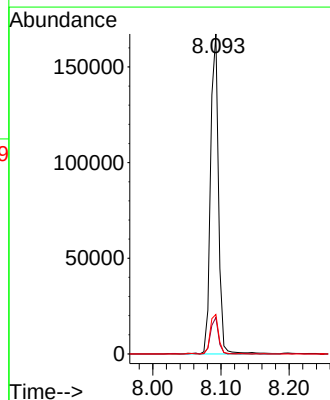
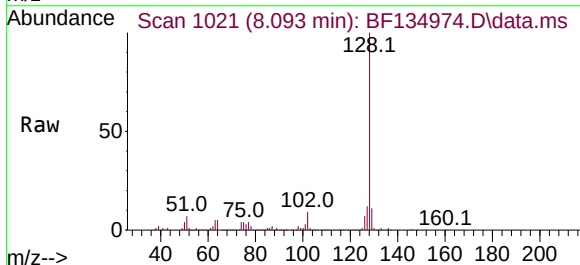
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

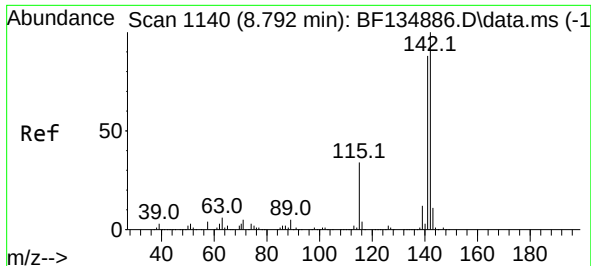
Tgt Ion: 82 Resp: 192000
Ion Ratio Lower Upper
82 100
95 0.3 5.9 8.9#
138 0.0 14.9 22.3#



#31
Naphthalene
Concen: 6.384 ng
RT: 8.093 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion: 128 Resp: 135740
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.4
127 12.3 10.6 16.0





#37

2-Methylnaphthalene

Concen: 3.227 ng

RT: 8.781 min Scan# 1138

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

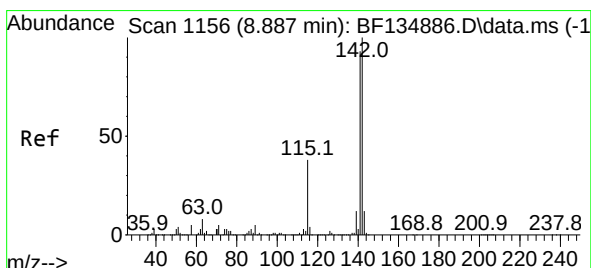
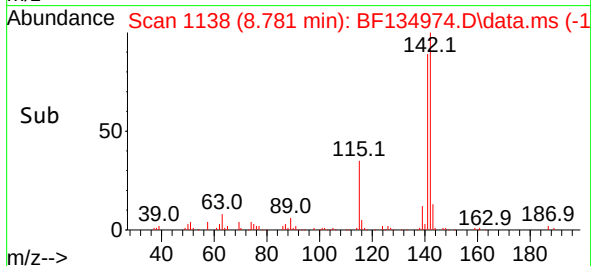
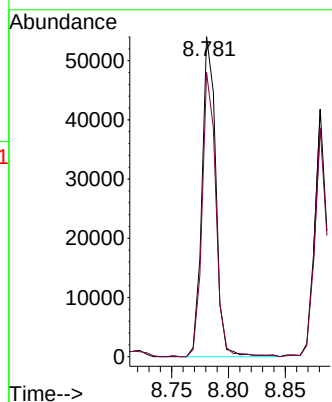
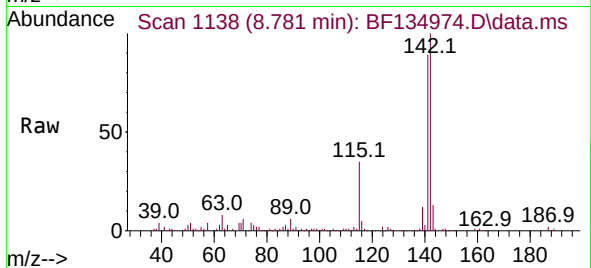
TP-21(3-4)DL

Tgt Ion:142 Resp: 45766

Ion Ratio Lower Upper

142 100

141 88.8 70.2 105.2



#38

1-Methylnaphthalene

Concen: 2.350 ng

RT: 8.881 min Scan# 1155

Delta R.T. -0.006 min

Lab File: BF134974.D

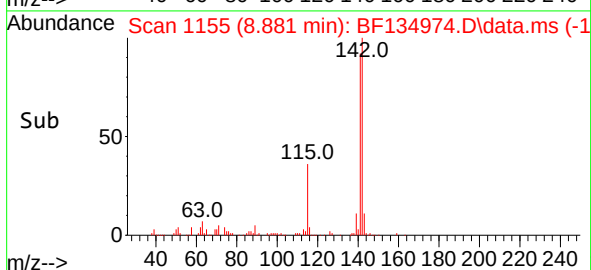
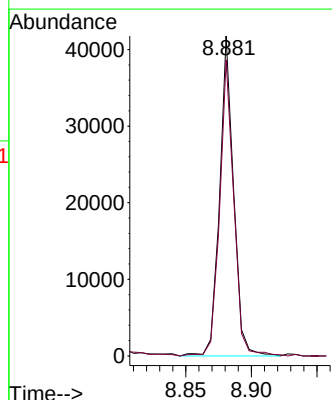
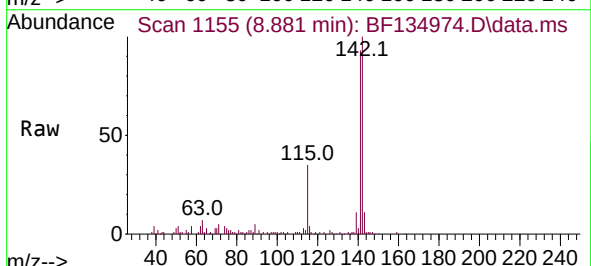
Acq: 28 Aug 2023 18:09

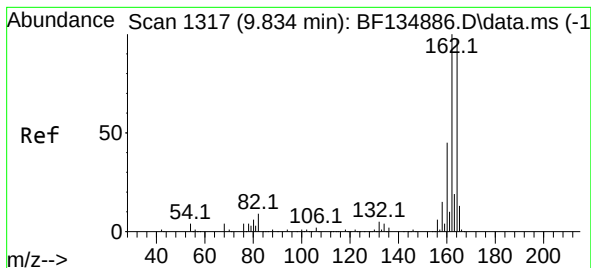
Tgt Ion:142 Resp: 31163

Ion Ratio Lower Upper

142 100

141 92.5 74.1 111.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1316

Delta R.T. -0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

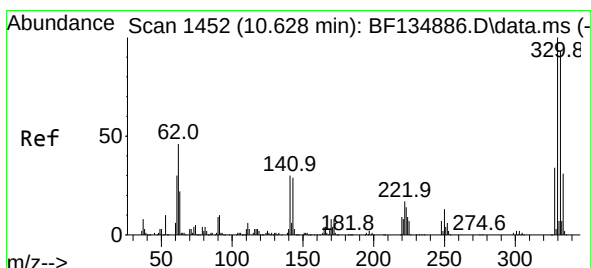
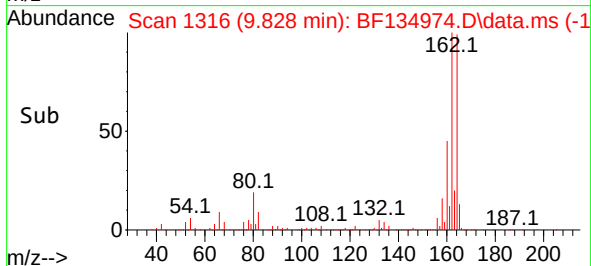
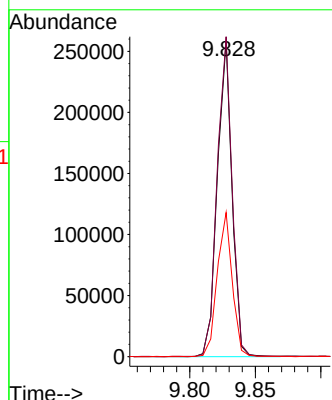
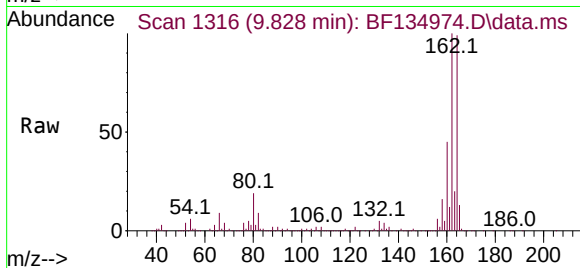
Tgt Ion:164 Resp: 202228

Ion Ratio Lower Upper

164 100

162 101.4 82.6 123.8

160 45.7 37.0 55.4



#42

2,4,6-Tribromophenol

Concen: 30.129 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

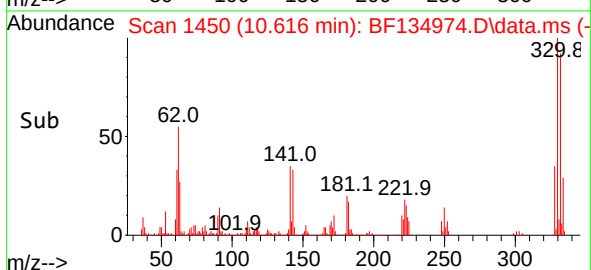
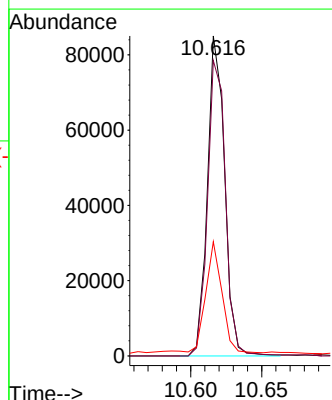
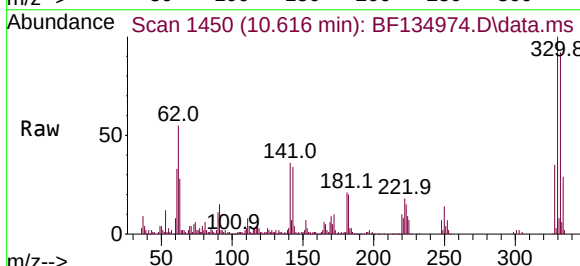
Tgt Ion:330 Resp: 71760

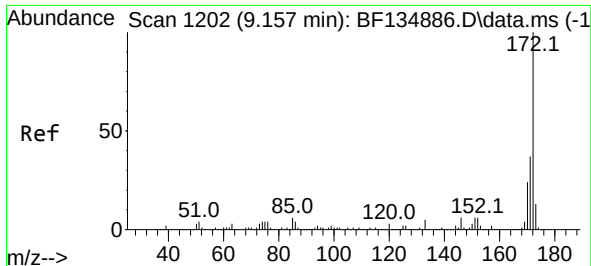
Ion Ratio Lower Upper

330 100

332 96.1 76.3 114.5

141 35.9 23.4 35.2#

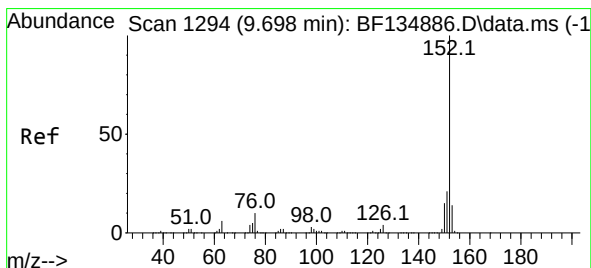
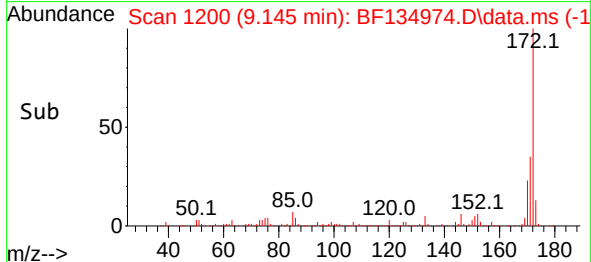
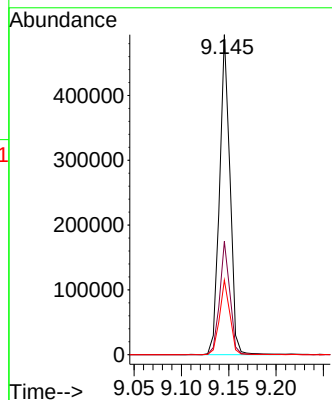
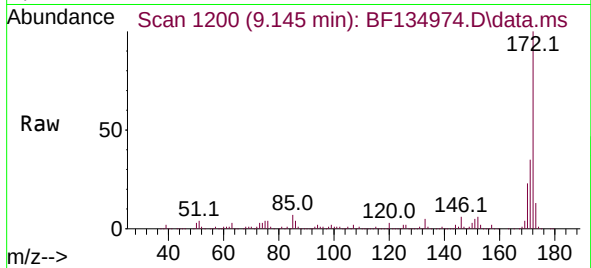




#45
2-Fluorobiphenyl
Concen: 28.692 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

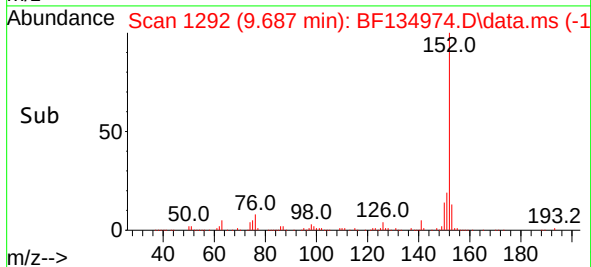
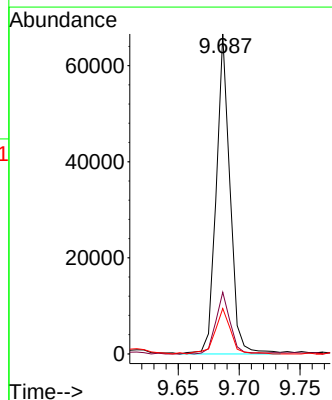
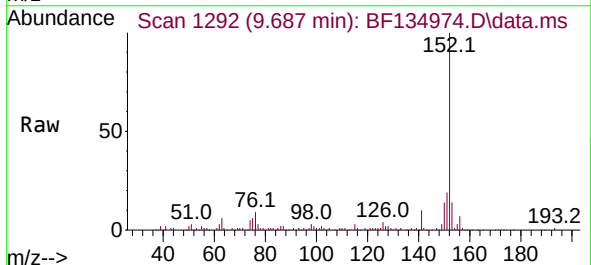
Instrument :
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ClientSampleId :
TP-21(3-4)DL

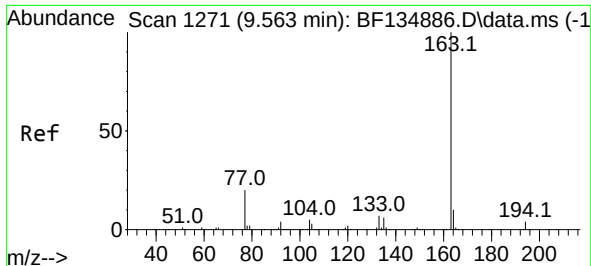
Tgt Ion:172 Resp: 375333
Ion Ratio Lower Upper
172 100
171 35.4 29.4 44.0
170 23.3 19.6 29.4



#49
Acenaphthylene
Concen: 2.871 ng
RT: 9.687 min Scan# 1292
Delta R.T. -0.011 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:152 Resp: 52717
Ion Ratio Lower Upper
152 100
151 19.3 16.5 24.7
153 14.2 11.3 16.9

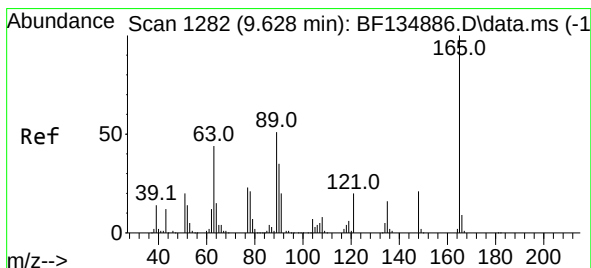
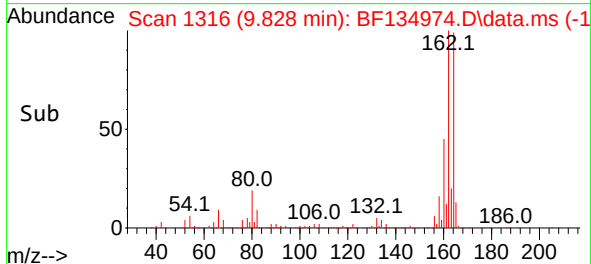
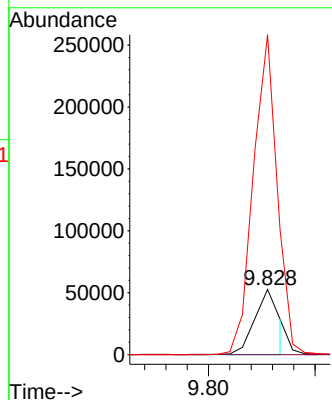
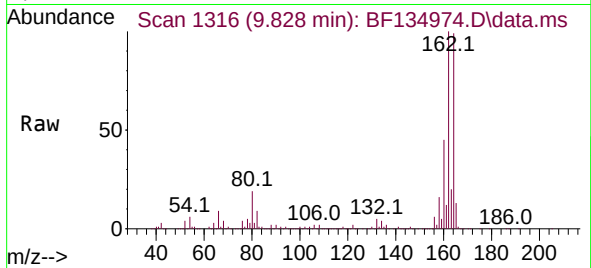




#50
Dimethylphthalate
Concen: 2.892 ng
RT: 9.828 min Scan# 1316
Delta R.T. 0.265 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

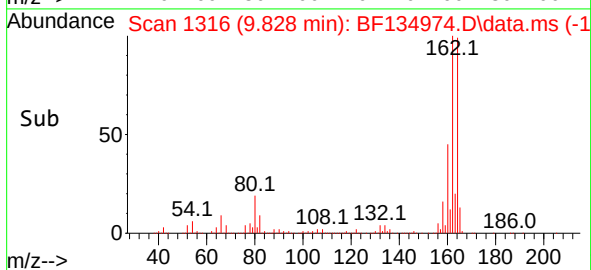
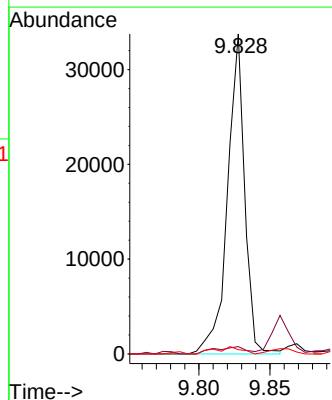
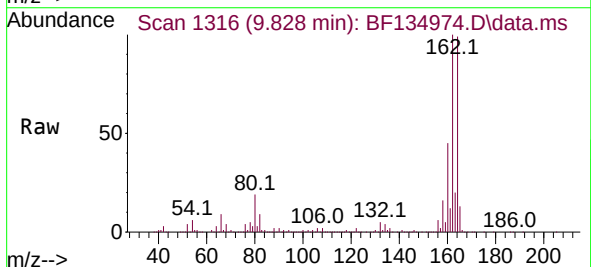
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

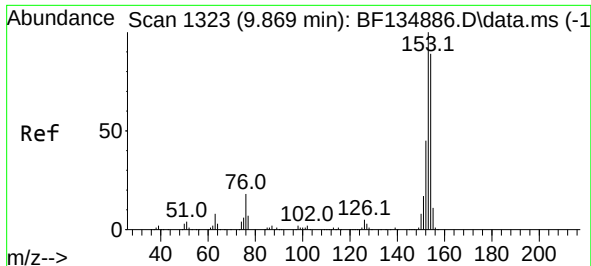
Tgt Ion:163 Resp: 41637
Ion Ratio Lower Upper
163 100
194 0.0 3.2 4.8#
164 490.7 8.2 12.4#



#51
2,6-Dinitrotoluene
Concen: 8.952 ng
RT: 9.828 min Scan# 1316
Delta R.T. 0.200 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:165 Resp: 28421
Ion Ratio Lower Upper
165 100
63 2.3 41.4 62.2#
89 1.3 40.9 61.3#





#52

Acenaphthene

Concen: 2.919 ng

RT: 9.857 min Scan# 1321

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

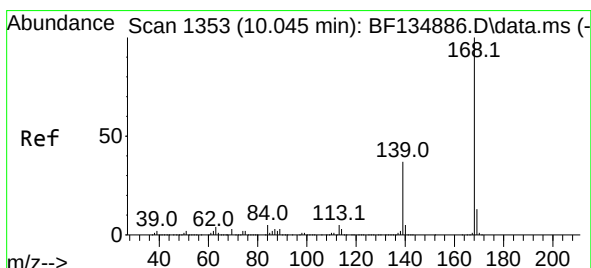
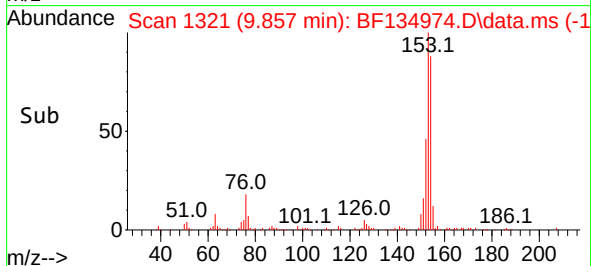
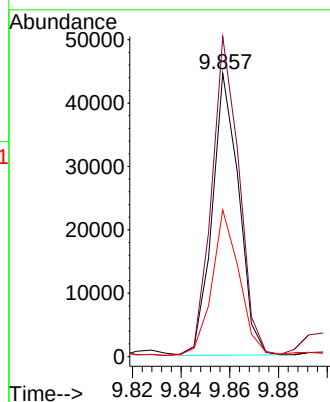
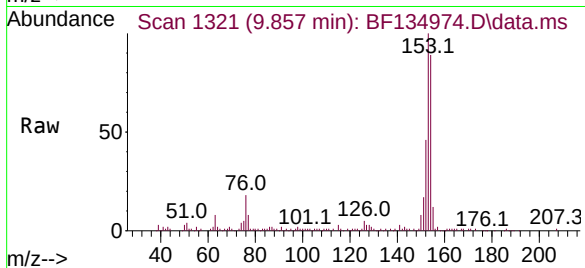
Tgt Ion:154 Resp: 33765

Ion Ratio Lower Upper

154 100

153 113.0 89.6 134.4

152 51.8 40.5 60.7



#55

Dibenzofuran

Concen: 2.519 ng

RT: 10.034 min Scan# 1351

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

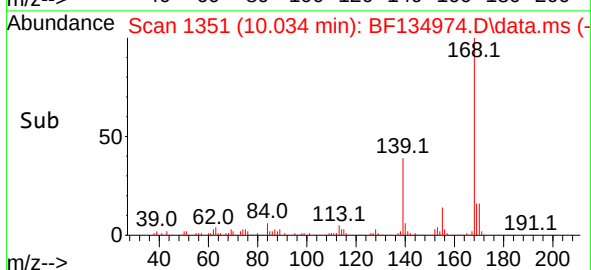
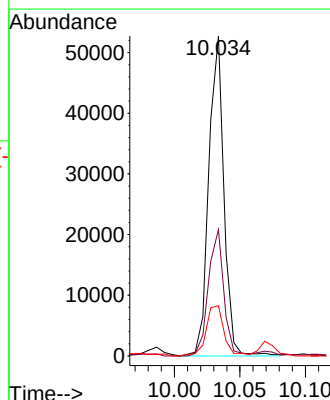
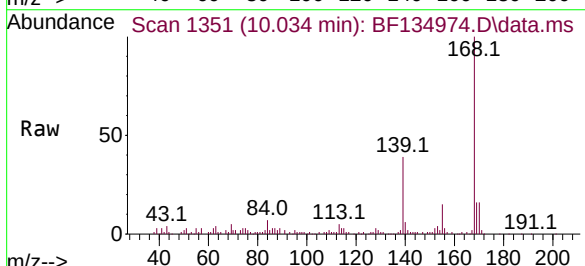
Tgt Ion:168 Resp: 42416

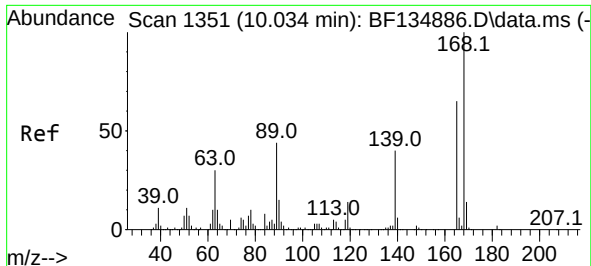
Ion Ratio Lower Upper

168 100

139 39.5 29.5 44.3

169 15.7 10.7 16.1

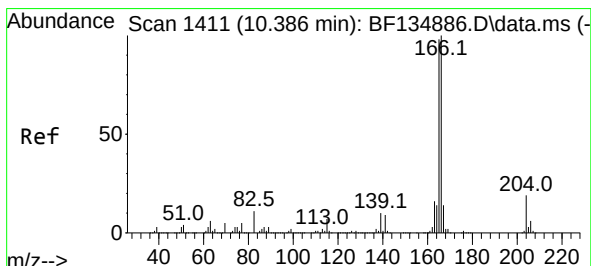
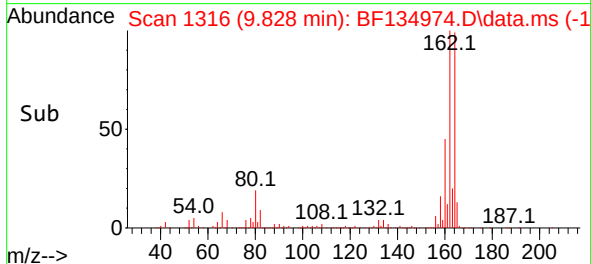
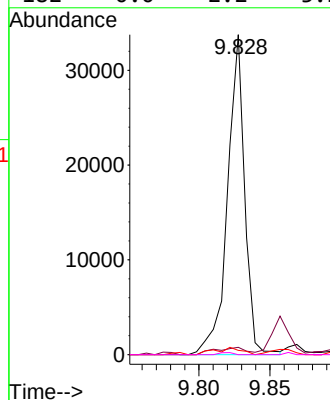
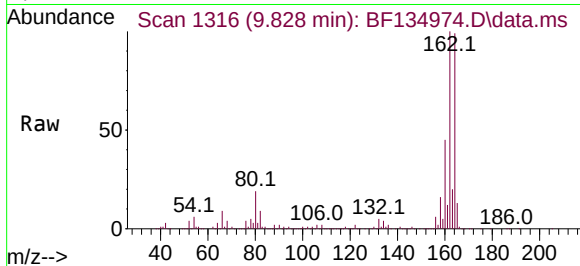




#57
2,4-Dinitrotoluene
Concen: 7.239 ng
RT: 9.828 min Scan# 1351
Delta R.T. -0.206 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

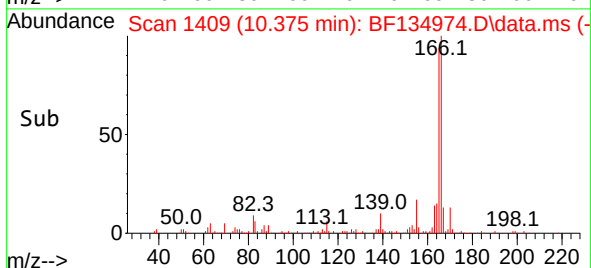
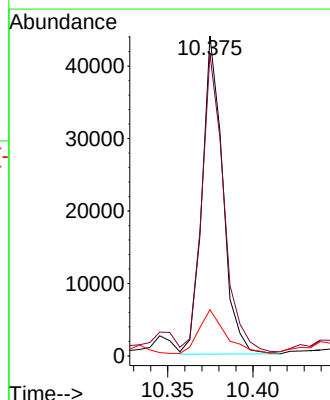
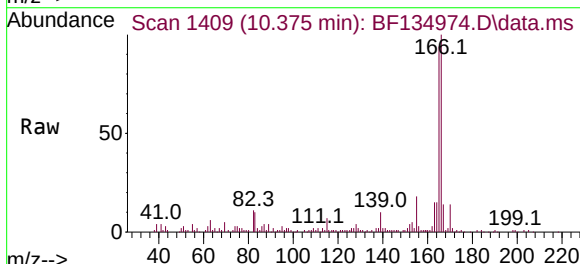
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

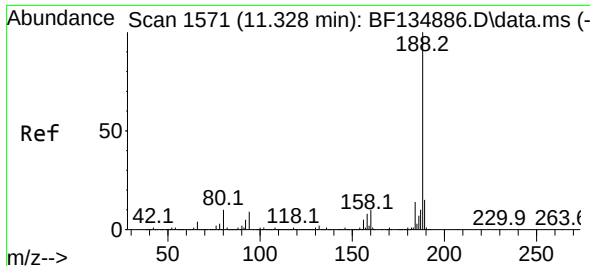
Tgt Ion:165 Resp: 28421
Ion Ratio Lower Upper
165 100
63 2.3 37.7 56.5#
89 1.3 54.2 81.4#
182 0.0 2.2 3.2#



#58
Fluorene
Concen: 2.885 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:166 Resp: 36850
Ion Ratio Lower Upper
166 100
165 94.3 78.5 117.7
167 14.4 11.0 16.6

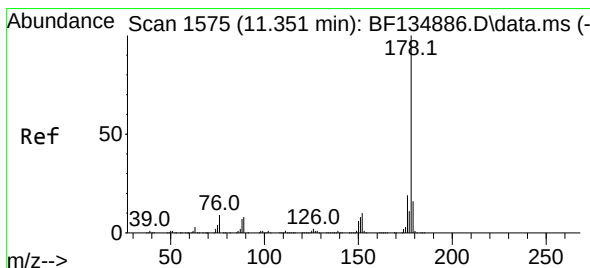
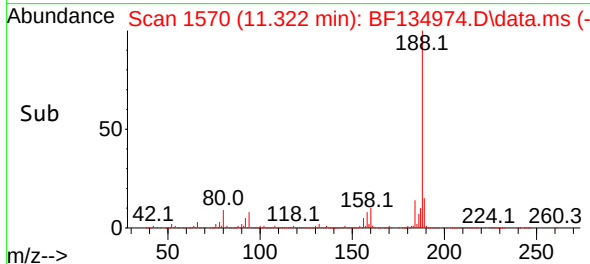
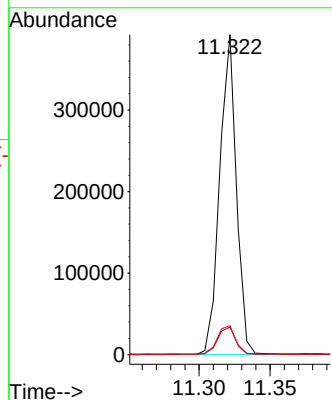
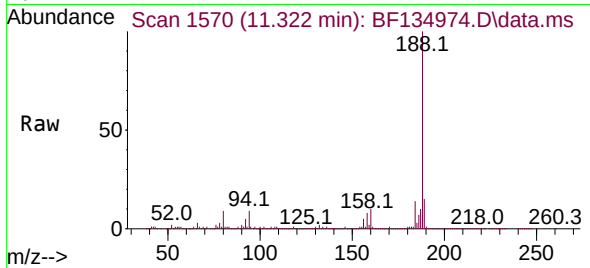




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

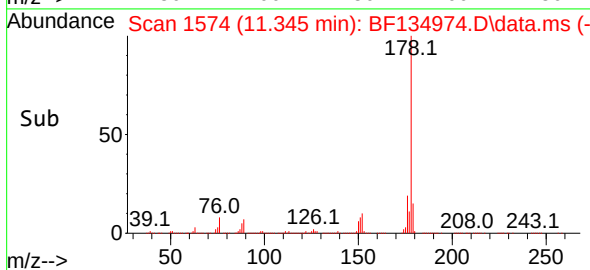
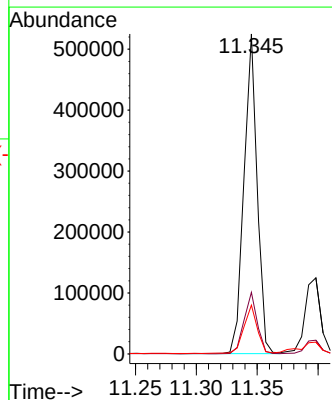
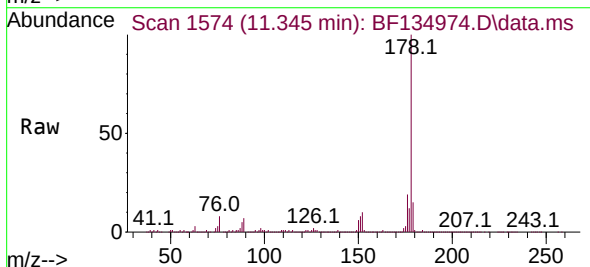
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

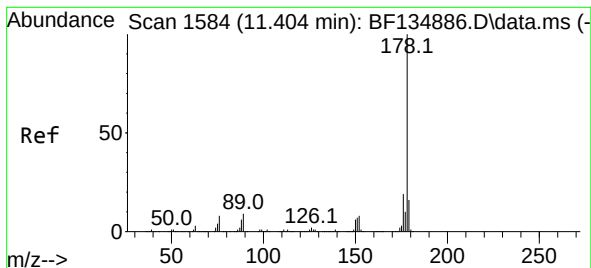
Tgt Ion:188 Resp: 320204
Ion Ratio Lower Upper
188 100
94 8.6 7.5 11.3
80 9.0 7.8 11.6



#71
Phenanthrene
Concen: 23.628 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:178 Resp: 396469
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.2 12.6 19.0





#72

Anthracene

Concen: 6.190 ng

RT: 11.398 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

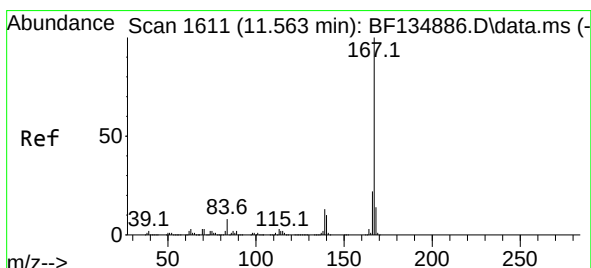
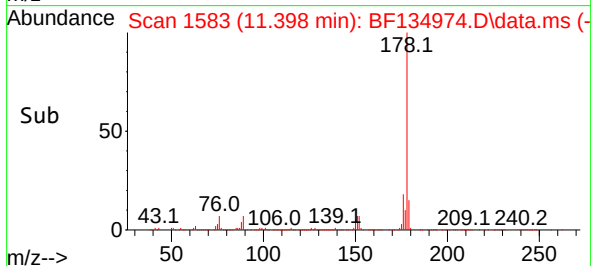
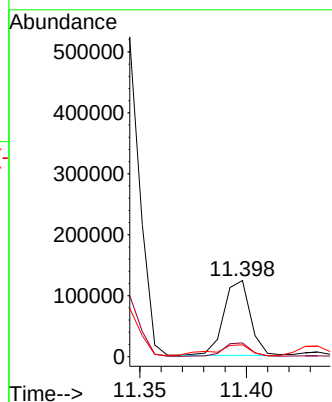
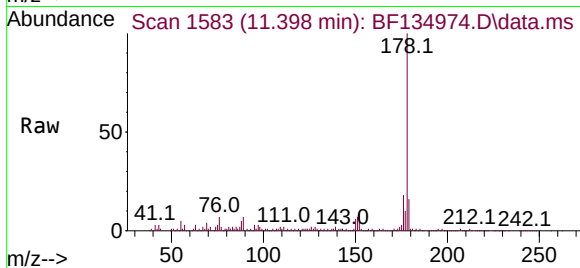
Tgt Ion:178 Resp: 106425

Ion Ratio Lower Upper

178 100

176 18.0 15.0 22.6

179 15.5 12.5 18.7



#73

Carbazole

Concen: 4.170 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.012 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

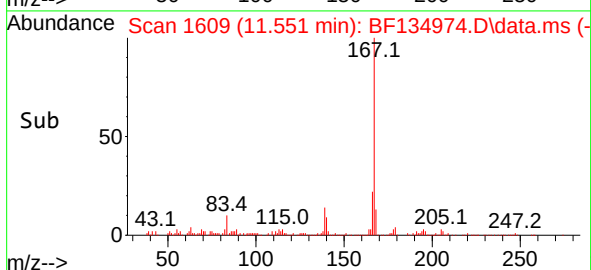
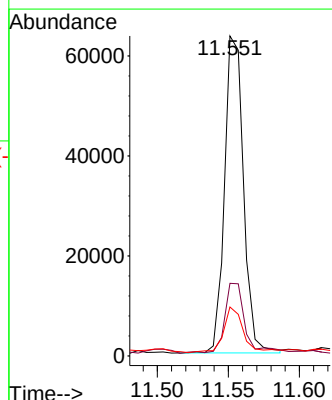
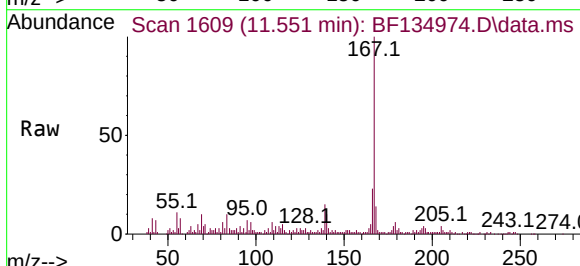
Tgt Ion:167 Resp: 59071

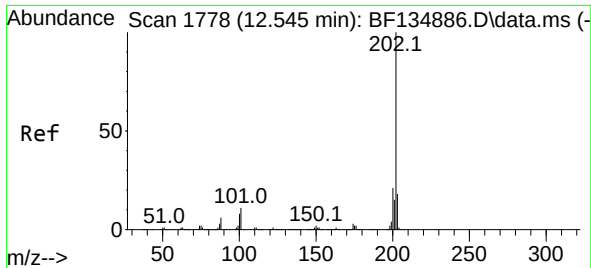
Ion Ratio Lower Upper

167 100

166 22.7 17.4 26.2

139 15.3 10.4 15.6

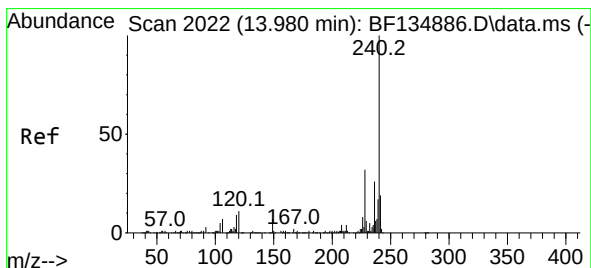
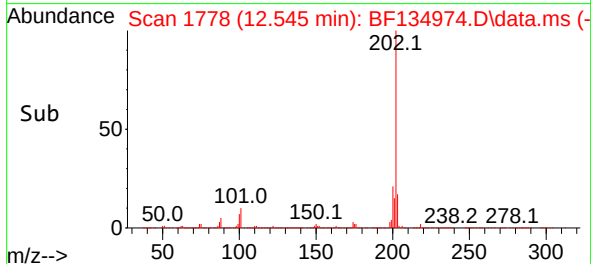
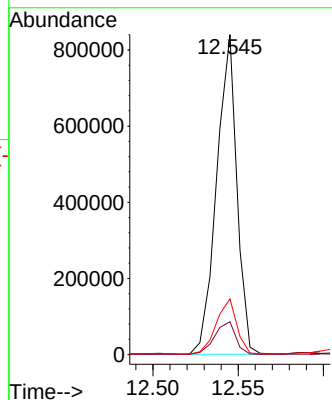
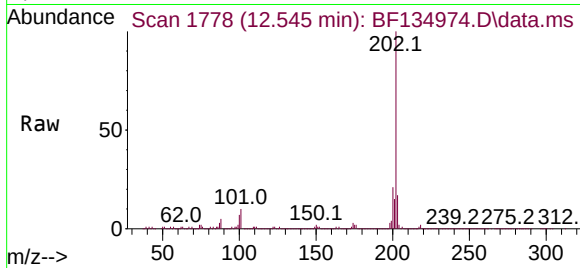




#75
Fluoranthene
Concen: 43.528 ng
RT: 12.545 min Scan# 1778
Delta R.T. 0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

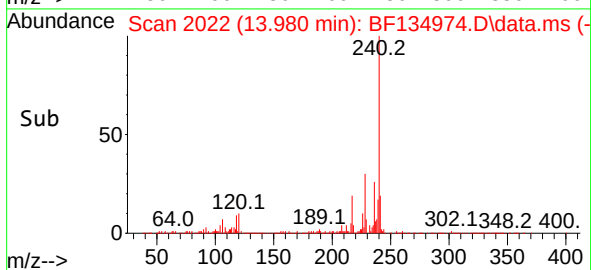
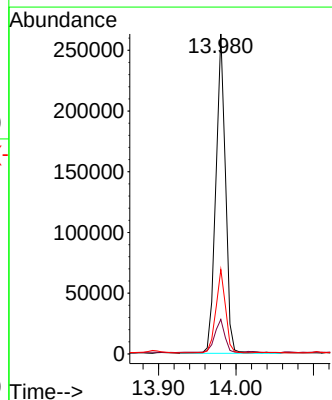
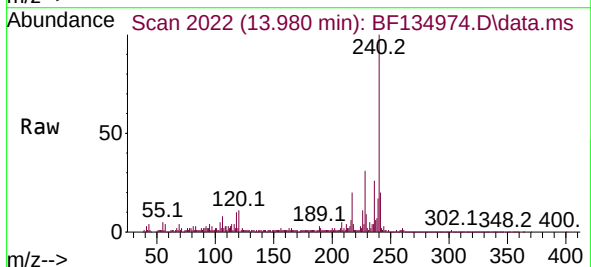
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

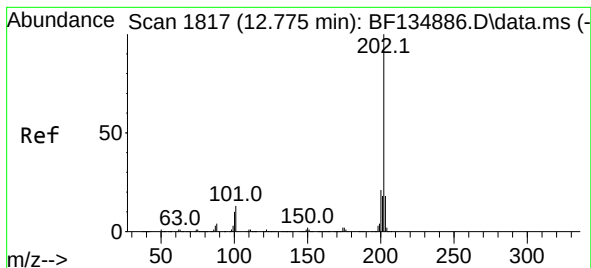
Tgt Ion:	202	Resp:	692034
Ion Ratio	Lower	Upper	
202	100		
101	10.3	0.0	30.5
203	17.4	0.0	37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:	240	Resp:	228101
Ion Ratio	Lower	Upper	
240	100		
120	10.8	8.6	12.8
236	26.4	20.6	31.0





#78

Pyrene

Concen: 25.992 ng

RT: 12.775 min Scan# 1817

Delta R.T. 0.000 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

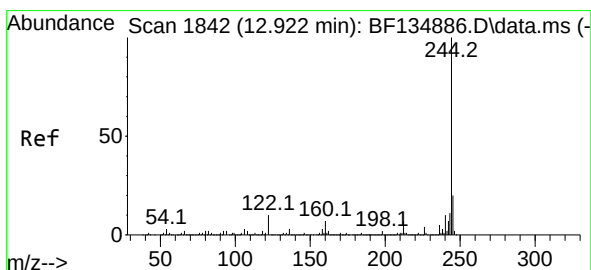
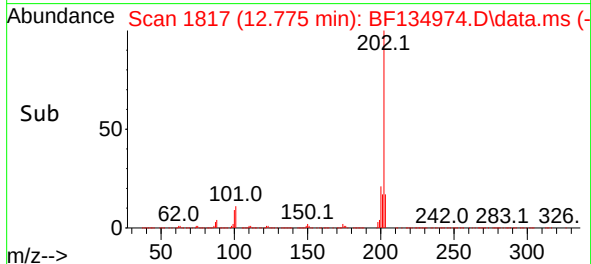
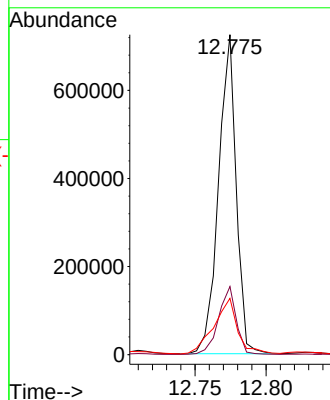
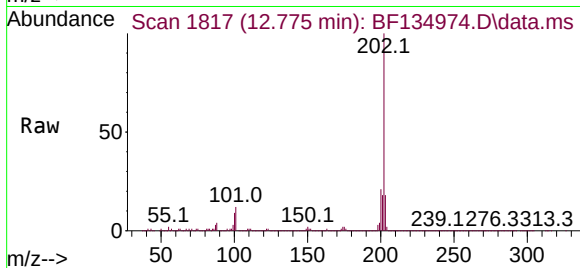
Tgt Ion:202 Resp: 628606

Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.6 14.2 21.2



#79

Terphenyl-d14

Concen: 18.819 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

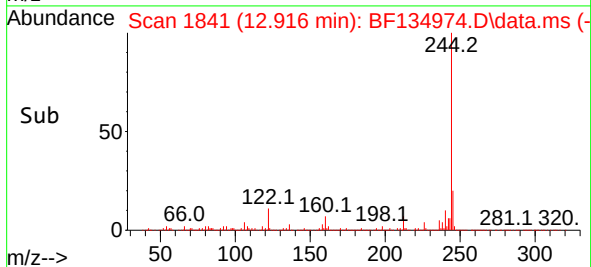
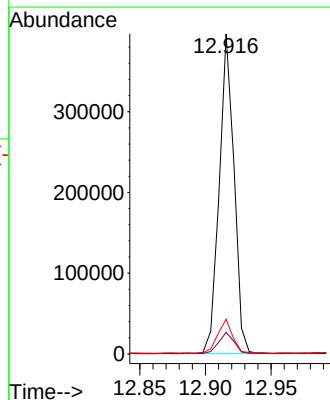
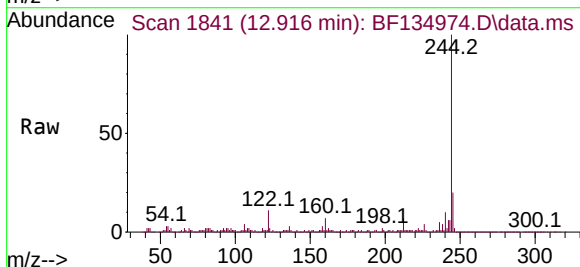
Tgt Ion:244 Resp: 312100

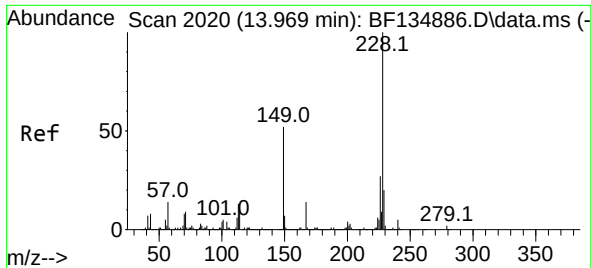
Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

122 10.8 8.2 12.4

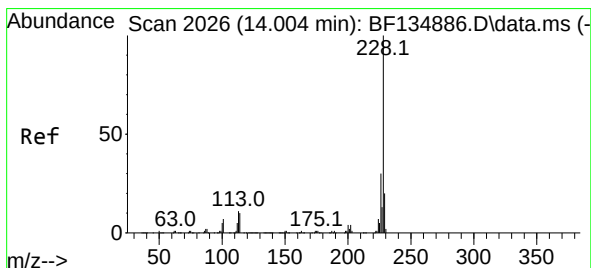
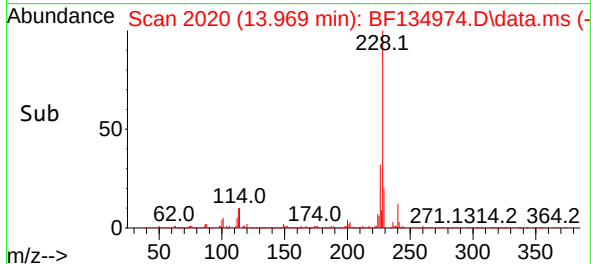
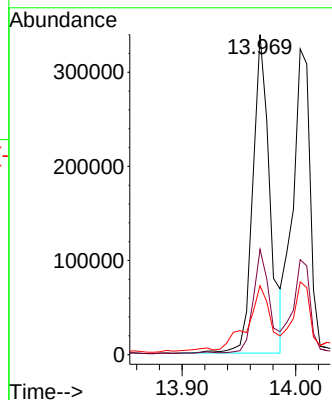
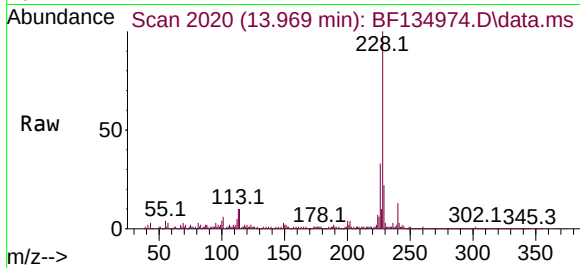




#81
Benzo(a)anthracene
Concen: 22.507 ng
RT: 13.969 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

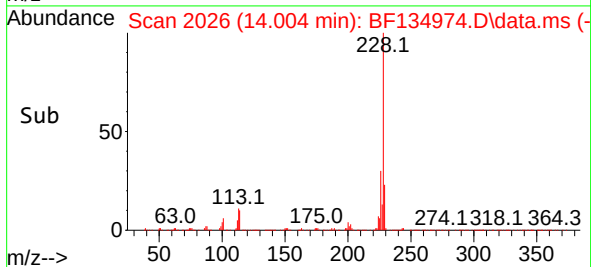
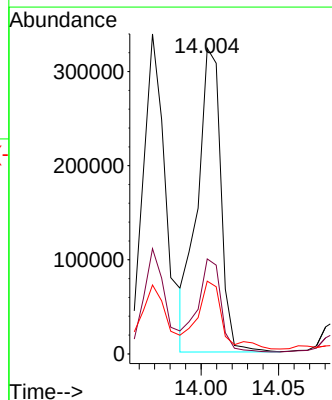
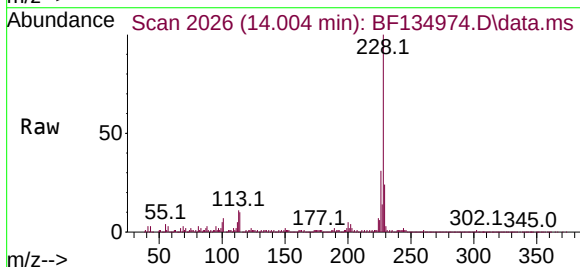
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

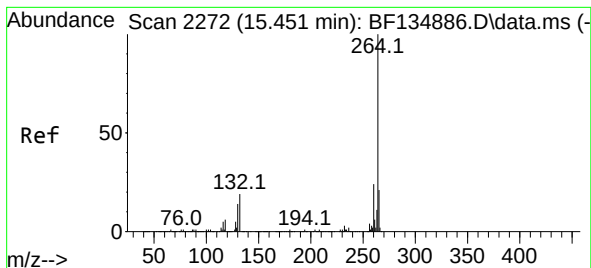
Tgt Ion:228 Resp: 350271
Ion Ratio Lower Upper
228 100
226 32.9 21.8 32.6#
229 21.5 15.6 23.4



#83
Chrysene
Concen: 22.400 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:228 Resp: 343950
Ion Ratio Lower Upper
228 100
226 31.1 24.2 36.2
229 23.8 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.457 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

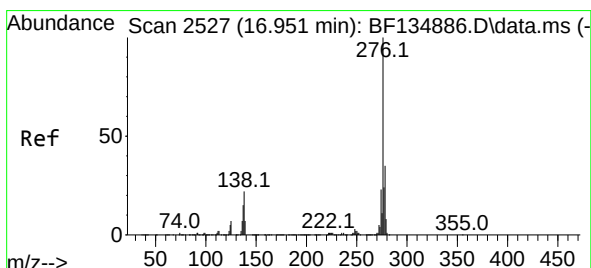
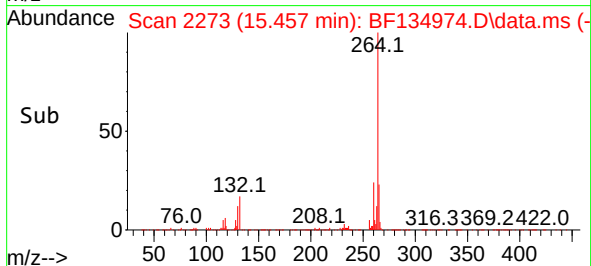
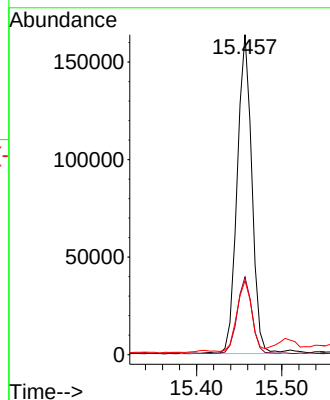
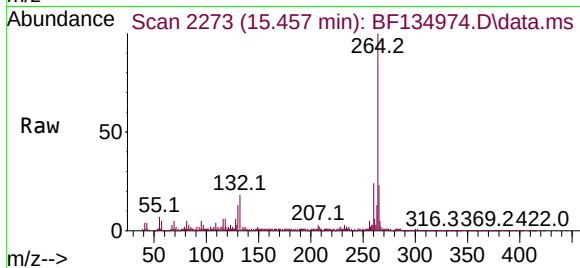
Tgt Ion:264 Resp: 195170

Ion Ratio Lower Upper

264 100

260 24.3 19.0 28.6

265 23.1 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.660 ng

RT: 16.945 min Scan# 2526

Delta R.T. -0.006 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

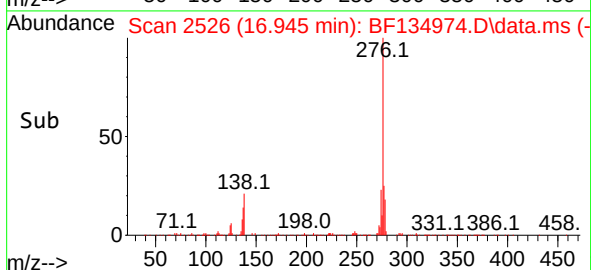
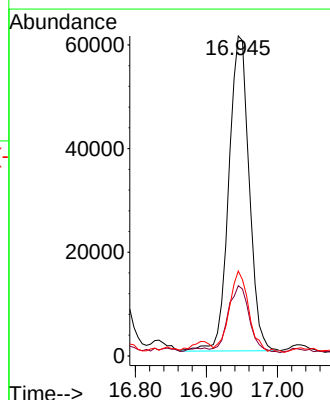
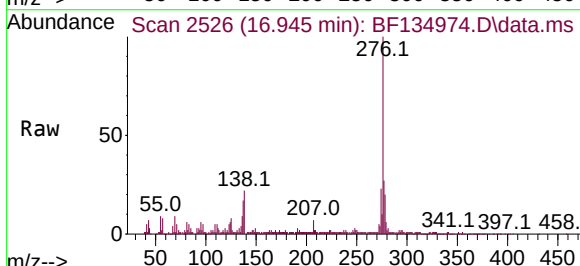
Tgt Ion:276 Resp: 120813

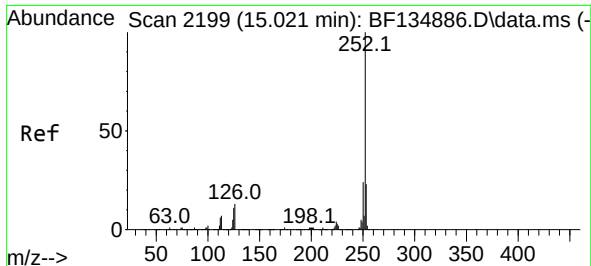
Ion Ratio Lower Upper

276 100

138 22.3 19.7 29.5

277 25.1 20.1 30.1

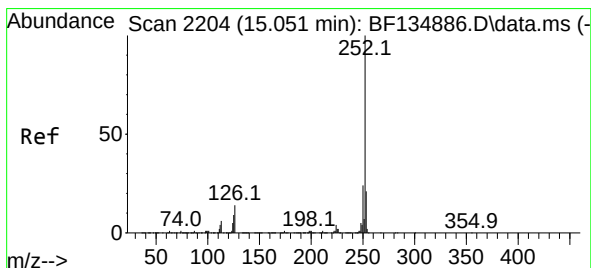
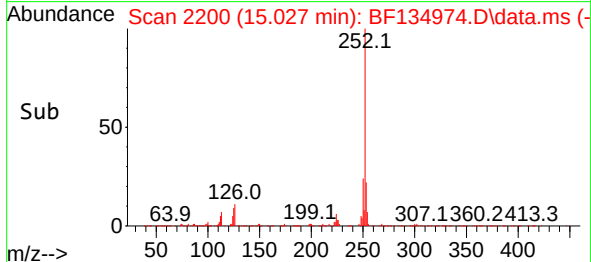
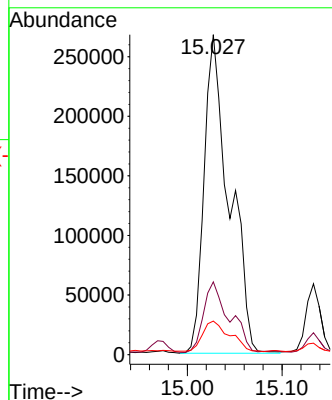
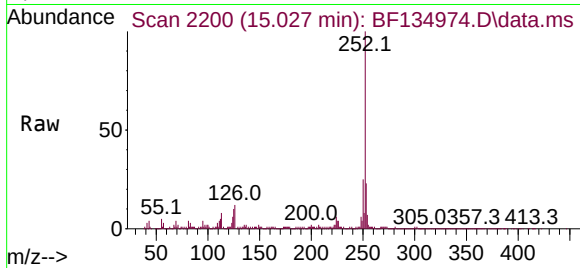




#88
Benzo(b)fluoranthene
Concen: 44.937 ng
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

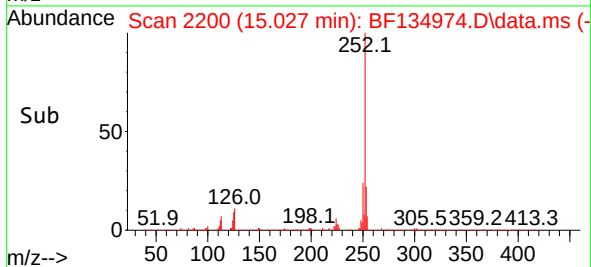
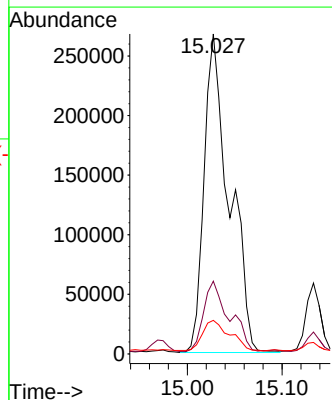
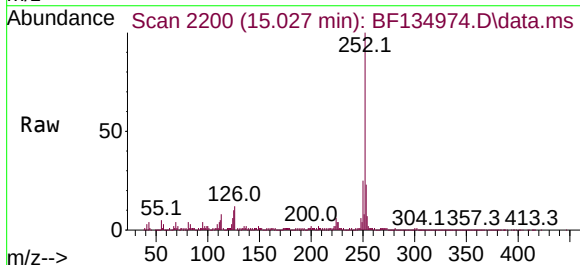
Instrument :
BNA_F
ClientSampleId :
TP-21(3-4)DL

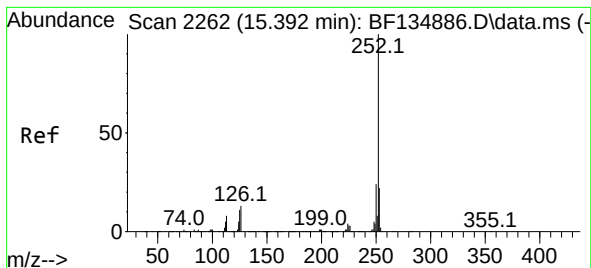
Tgt Ion:252 Resp: 494816
Ion Ratio Lower Upper
252 100
253 22.8 18.1 27.1
125 10.5 8.4 12.6



#89
Benzo(k)fluoranthene
Concen: 45.762 ng
RT: 15.027 min Scan# 2200
Delta R.T. -0.023 min
Lab File: BF134974.D
Acq: 28 Aug 2023 18:09

Tgt Ion:252 Resp: 494816
Ion Ratio Lower Upper
252 100
253 22.8 17.1 25.7
125 10.5 8.0 12.0





#90

Benzo(a)pyrene

Concen: 20.371 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL

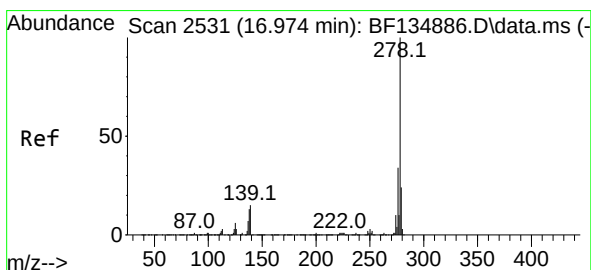
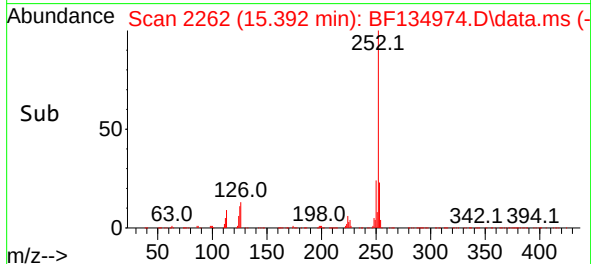
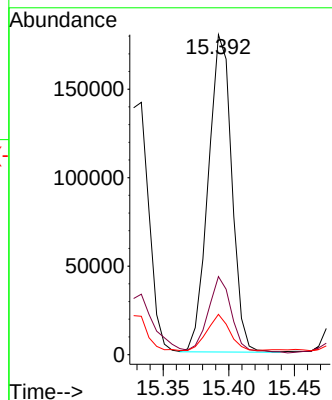
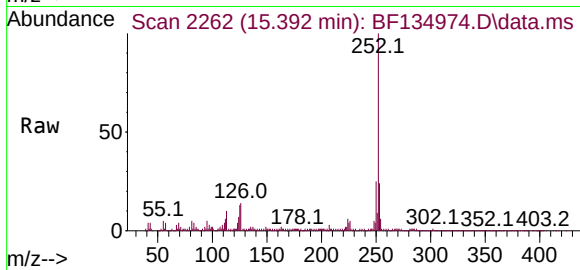
Tgt Ion:252 Resp: 223923

Ion Ratio Lower Upper

252 100

253 24.4 17.6 26.4

125 12.6 8.4 12.6



#91

Dibenzo(a,h)anthracene

Concen: 2.828 ng

RT: 16.957 min Scan# 2528

Delta R.T. -0.018 min

Lab File: BF134974.D

Acq: 28 Aug 2023 18:09

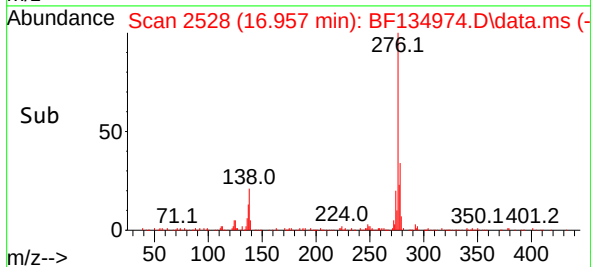
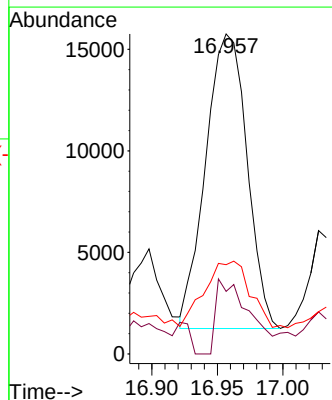
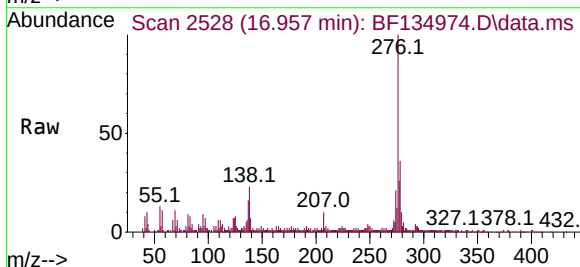
Tgt Ion:278 Resp: 31923

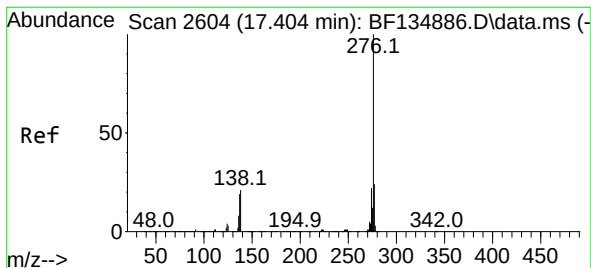
Ion Ratio Lower Upper

278 100

139 19.5 12.2 18.4#

279 27.9 19.1 28.7





#92

Benzo(g,h,i)perylene

Concen: 9.497 ng

RT: 17.398 min Scan# 2603

Delta R.T. -0.006 min

Lab File: BF134974.D

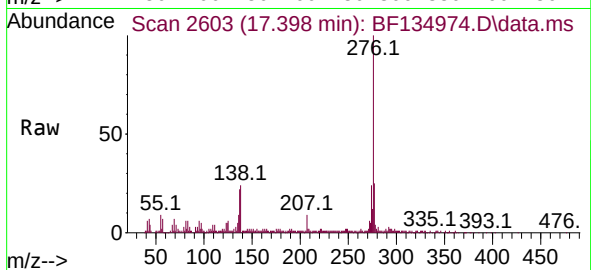
Acq: 28 Aug 2023 18:09

Instrument :

BNA_F

ClientSampleId :

TP-21(3-4)DL



Tgt Ion:276 Resp: 109742

Ion Ratio Lower Upper

276 100

277 24.8 19.2 28.8

138 23.8 17.0 25.6

