

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011124\
 Data File : BF137041.D
 Acq On : 11 Jan 2024 16:17
 Operator : CG\JU
 Sample : P1070-01DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-010824DL

Quant Time: Jan 11 16:37:42 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

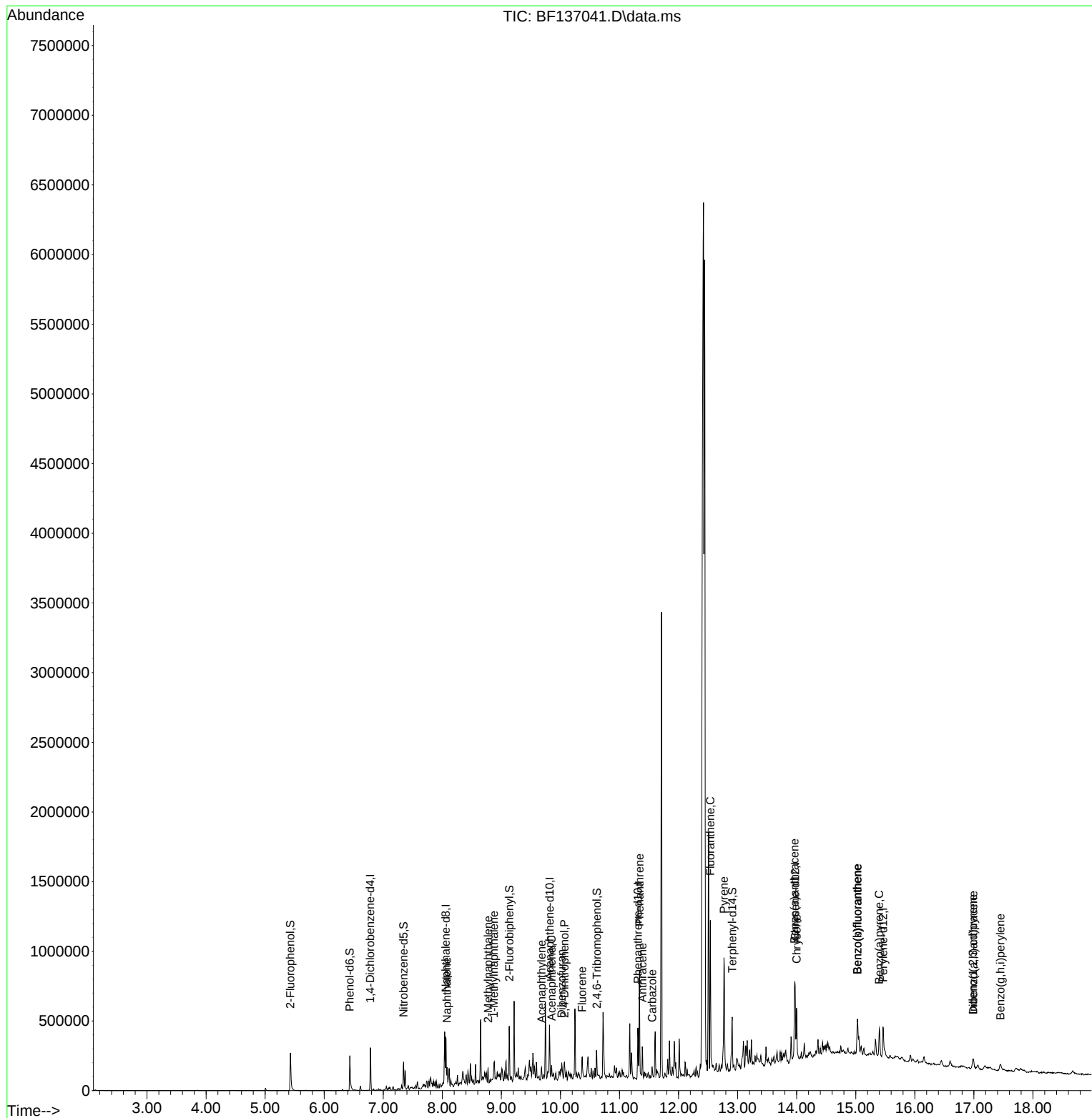
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	45839	20.000	ng	-0.01
21) Naphthalene-d8	8.057	136	156057	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	69721	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	130299	20.000	ng	0.00
76) Chrysene-d12	13.974	240	124686	20.000	ng	0.00
86) Perylene-d12	15.462	264	94818	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	87488	29.779	ng	0.00
7) Phenol-d6	6.434	99	102164	26.838	ng	0.00
23) Nitrobenzene-d5	7.345	82	59376	19.469	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	23950	29.167	ng	0.00
45) 2-Fluorobiphenyl	9.133	172	111305	21.472	ng	-0.02
79) Terphenyl-d14	12.910	244	128005	14.347	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.081	128	37484	4.372	ng	99
37) 2-Methylnaphthalene	8.775	142	25663	4.651	ng	99
38) 1-Methylnaphthalene	8.875	142	23977	4.429	ng	94
49) Acenaphthylene	9.680	152	24876	3.659	ng	95
52) Acenaphthene	9.851	154	15581	3.697	ng	96
54) 2,4-Dinitrophenol	10.069	184	64	3.830	ng	# 1
55) Dibenzofuran	10.022	168	26602	4.164	ng	# 94
58) Fluorene	10.369	166	40507	7.992	ng	93
71) Phenanthrene	11.339	178	278522	41.659	ng	100
72) Anthracene	11.386	178	78008	11.521	ng	98
73) Carbazole	11.551	167	15995	2.506	ng	# 93
75) Fluoranthene	12.539	202	390602	54.619	ng	98
78) Pyrene	12.768	202	334218	27.305	ng	99
81) Benzo(a)anthracene	13.963	228	185030	21.371	ng	97
83) Chrysene	13.998	228	146021	17.247	ng	97
87) Indeno(1,2,3-cd)pyrene	16.986	276	45761	6.684	ng	96
88) Benzo(b)fluoranthene	15.027	252	189344	29.898	ng	# 94
89) Benzo(k)fluoranthene	15.027	252	189344	31.641	ng	94
90) Benzo(a)pyrene	15.398	252	94630	17.702	ng	96
91) Dibenzo(a,h)anthracene	16.992	278	13831	2.463	ng	# 83
92) Benzo(g,h,i)perylene	17.451	276	39122	6.801	ng	# 90

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

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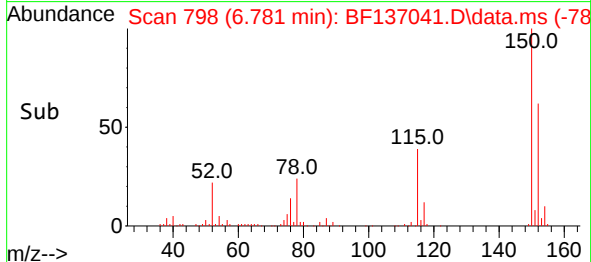
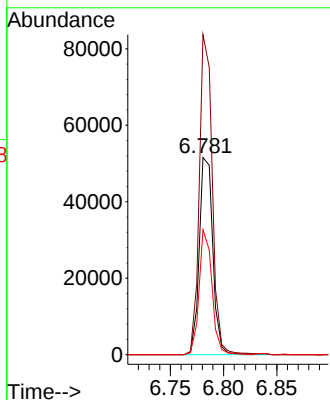
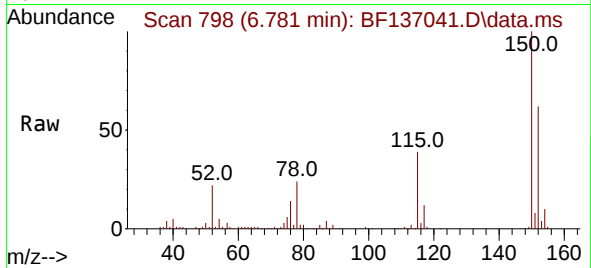




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

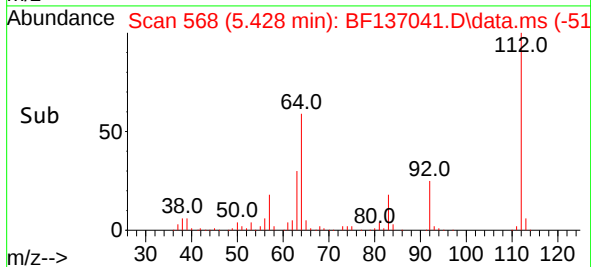
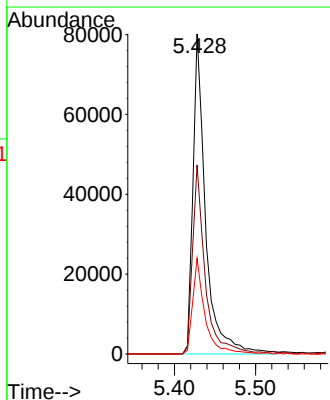
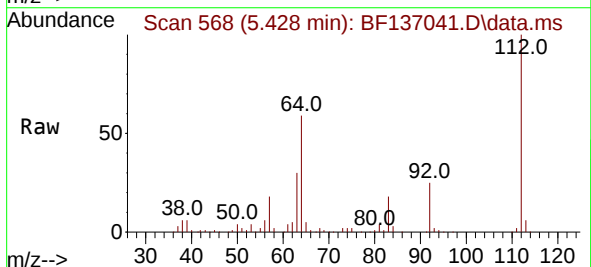
Instrument :
BNA_F
ClientSampleId :
HD-01-010824DL

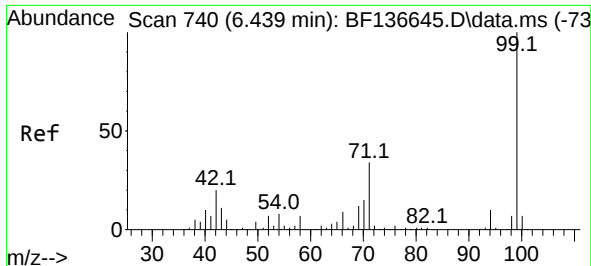
Tgt Ion:152 Resp: 45839
Ion Ratio Lower Upper
152 100
150 162.4 127.0 190.6
115 63.4 49.0 73.4



#5
2-Fluorophenol
Concen: 29.779 ng
RT: 5.428 min Scan# 568
Delta R.T. 0.000 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

Tgt Ion:112 Resp: 87488
Ion Ratio Lower Upper
112 100
64 59.0 51.1 76.7
63 29.9 26.1 39.1





#7

Phenol-d6

Concen: 26.838 ng

RT: 6.434 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

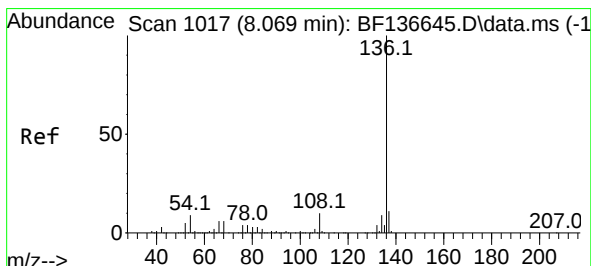
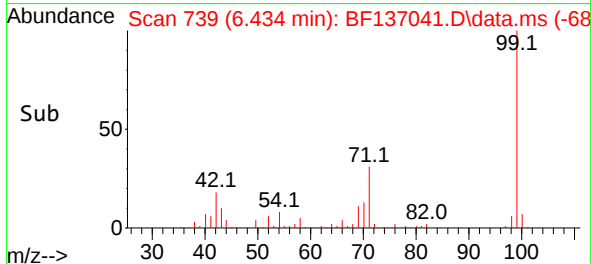
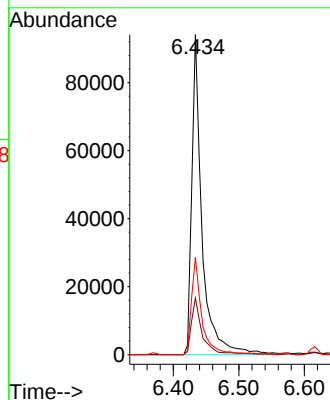
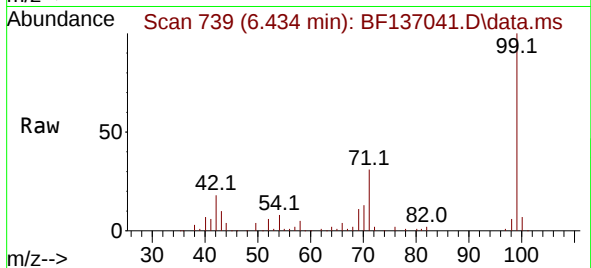
Tgt Ion: 99 Resp: 102164

Ion Ratio Lower Upper

99 100

42 17.7 16.1 24.1

71 30.5 27.4 41.2



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.057 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Tgt Ion: 136 Resp: 156057

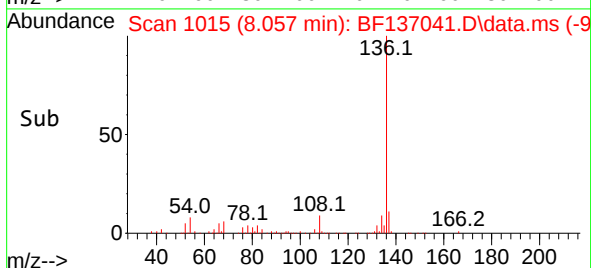
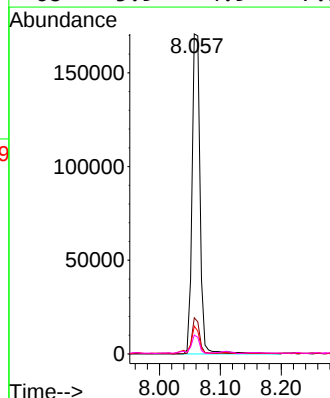
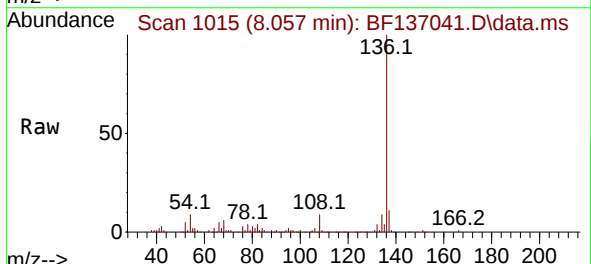
Ion Ratio Lower Upper

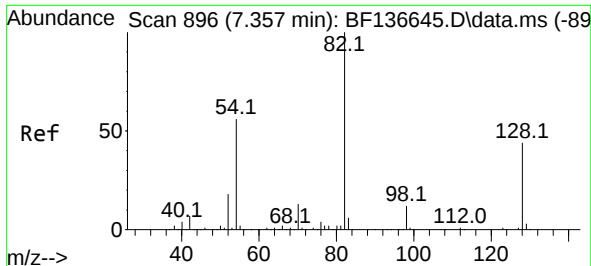
136 100

137 11.3 9.0 13.4

54 8.7 7.2 10.8

68 5.9 4.9 7.3





#23

Nitrobenzene-d5

Concen: 19.469 ng

RT: 7.345 min Scan# 896

Delta R.T. -0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

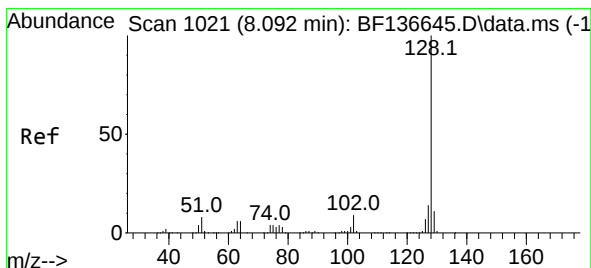
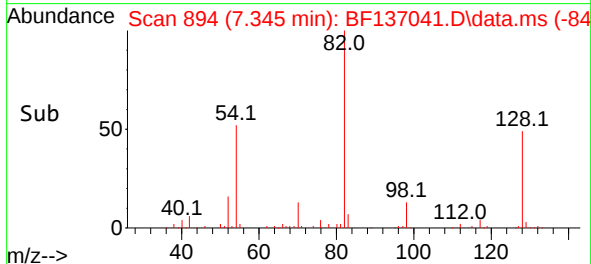
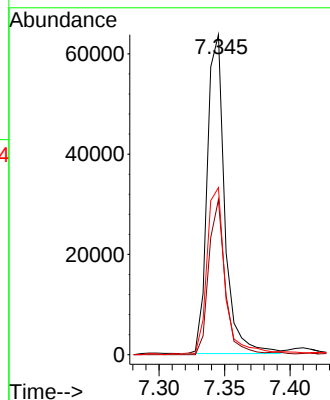
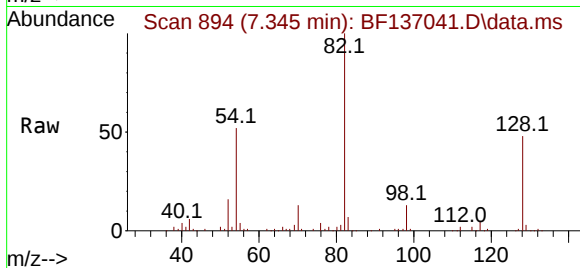
Tgt Ion: 82 Resp: 59376

Ion Ratio Lower Upper

82 100

128 48.5 35.3 52.9

54 52.2 44.5 66.7



#31

Naphthalene

Concen: 4.372 ng

RT: 8.081 min Scan# 1019

Delta R.T. -0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

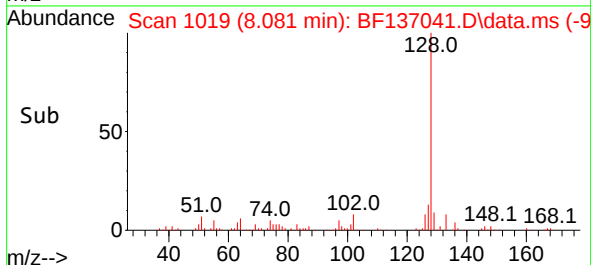
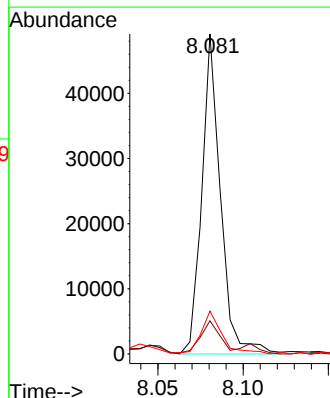
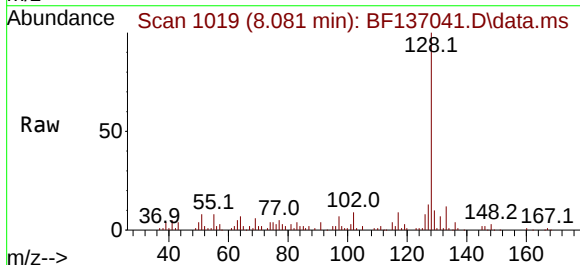
Tgt Ion: 128 Resp: 37484

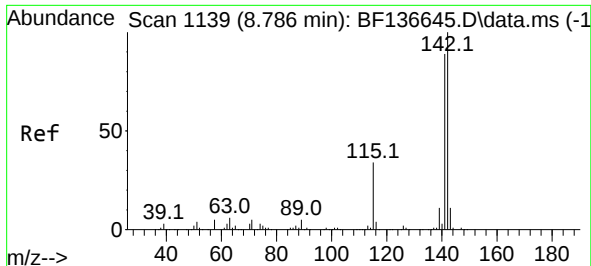
Ion Ratio Lower Upper

128 100

129 10.4 8.7 13.1

127 13.4 10.8 16.2





#37

2-Methylnaphthalene

Concen: 4.651 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

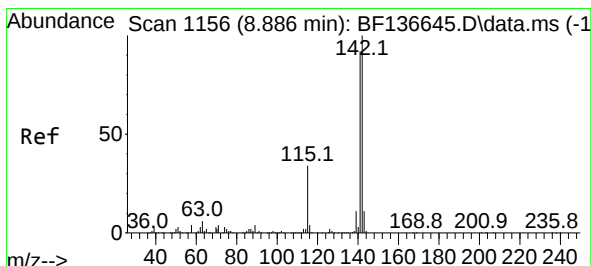
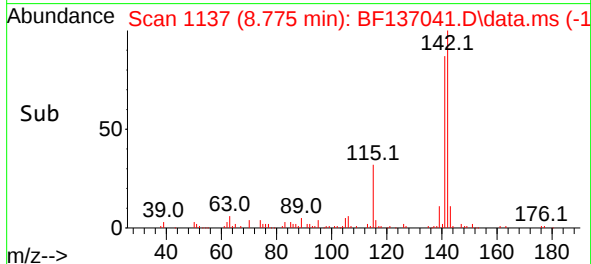
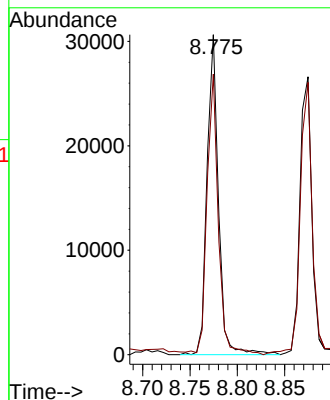
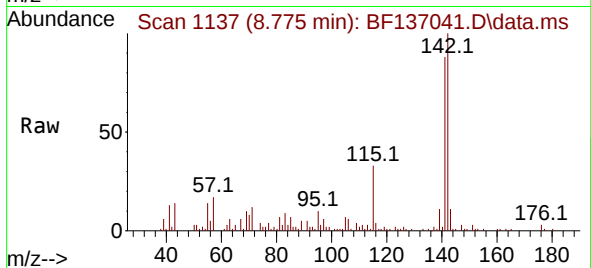
HD-01-010824DL

Tgt Ion:142 Resp: 25663

Ion Ratio Lower Upper

142 100

141 87.7 71.1 106.7



#38

1-Methylnaphthalene

Concen: 4.429 ng

RT: 8.875 min Scan# 1154

Delta R.T. -0.012 min

Lab File: BF137041.D

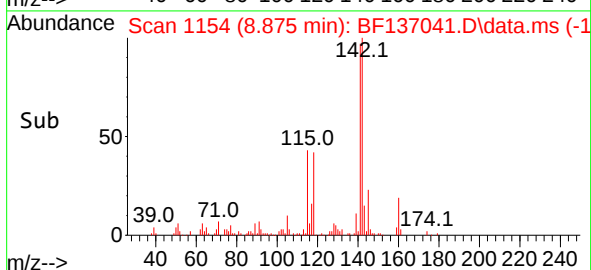
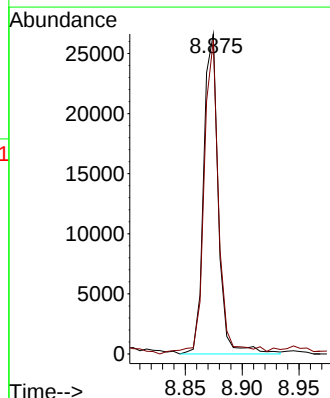
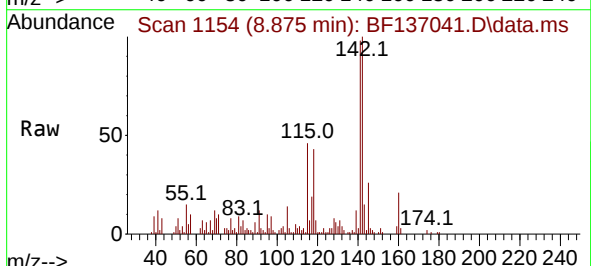
Acq: 11 Jan 2024 16:17

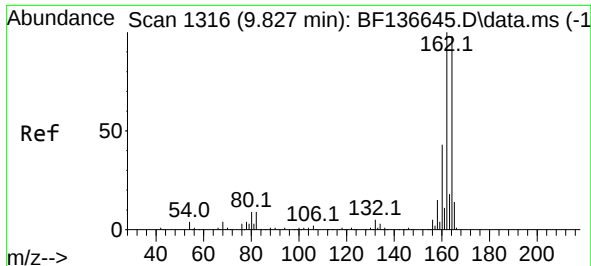
Tgt Ion:142 Resp: 23977

Ion Ratio Lower Upper

142 100

141 98.0 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

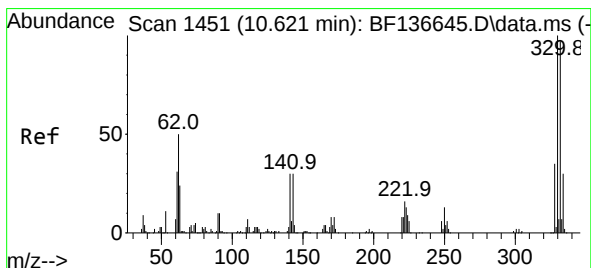
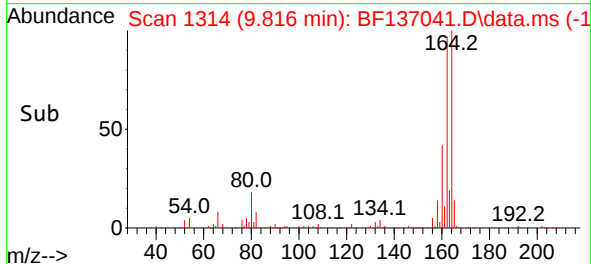
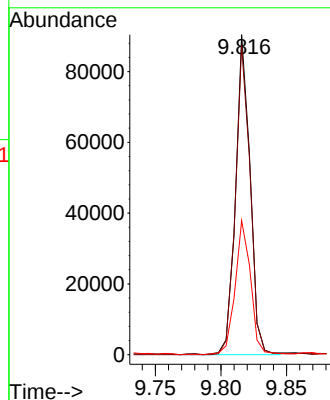
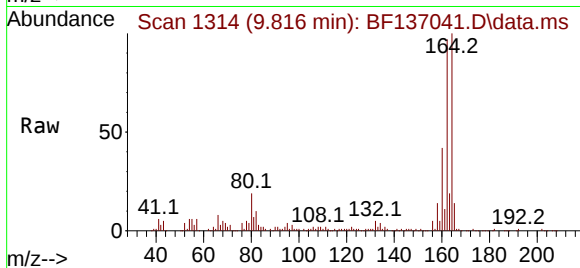
Tgt Ion:164 Resp: 69721

Ion Ratio Lower Upper

164 100

162 96.5 81.6 122.4

160 41.9 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 29.167 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.006 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

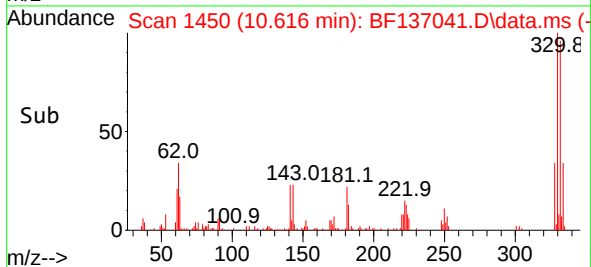
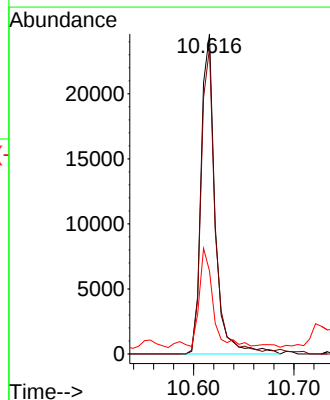
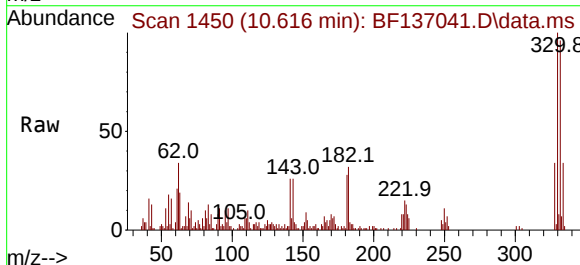
Tgt Ion:330 Resp: 23950

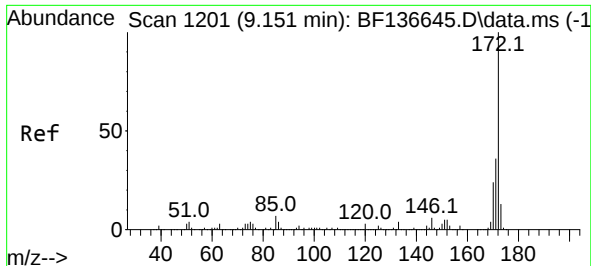
Ion Ratio Lower Upper

330 100

332 95.5 77.4 116.0

141 31.7 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 21.472 ng

RT: 9.133 min Scan# 111305

Delta R.T. -0.018 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

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ClientSampleId :

HD-01-010824DL

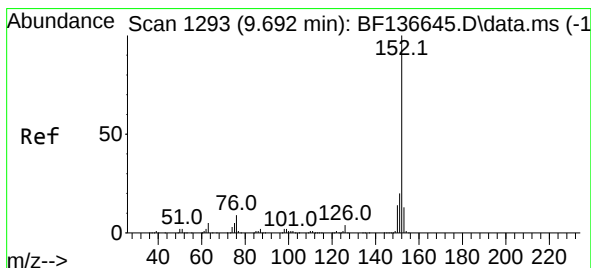
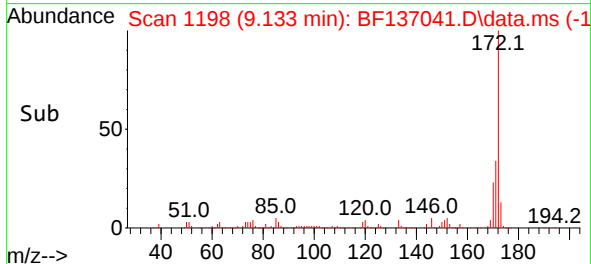
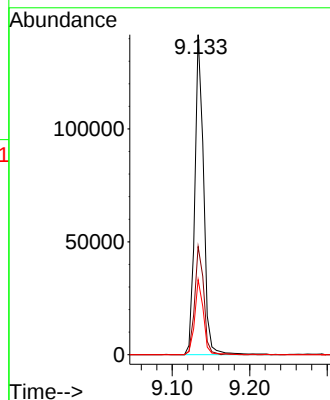
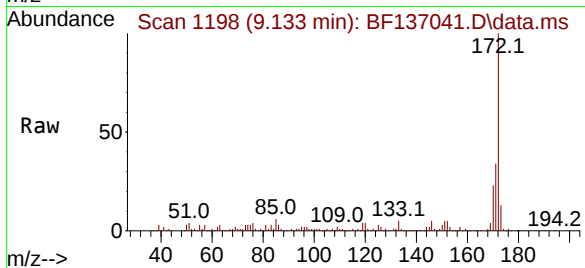
Tgt Ion:172 Resp: 111305

Ion Ratio Lower Upper

172 100

171 33.8 29.0 43.6

170 23.5 19.0 28.4



#49

Acenaphthylene

Concen: 3.659 ng

RT: 9.680 min Scan# 1291

Delta R.T. -0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

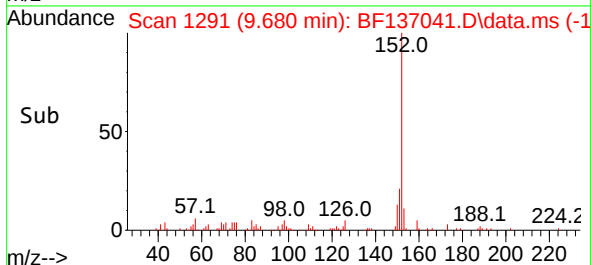
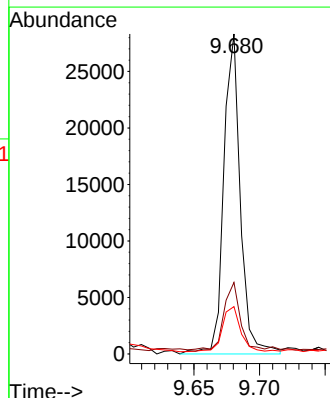
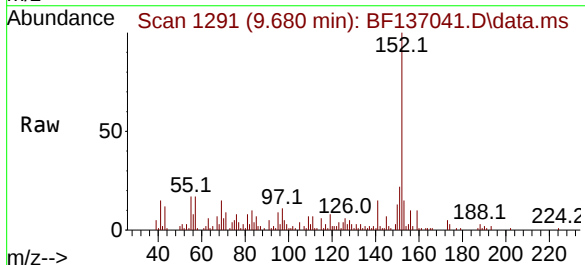
Tgt Ion:152 Resp: 24876

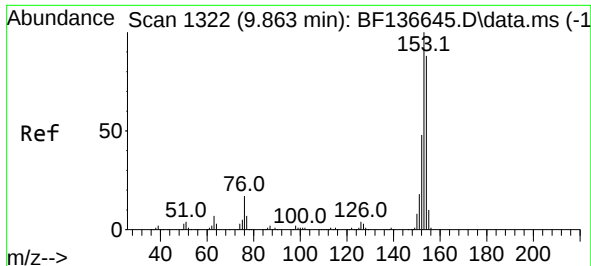
Ion Ratio Lower Upper

152 100

151 22.4 16.2 24.4

153 14.8 10.2 15.2

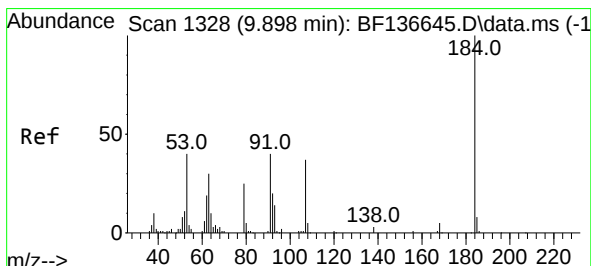
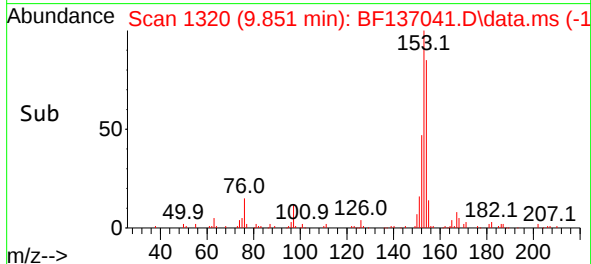
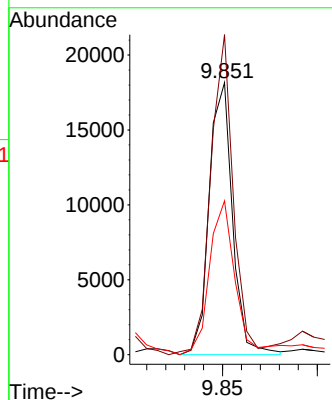
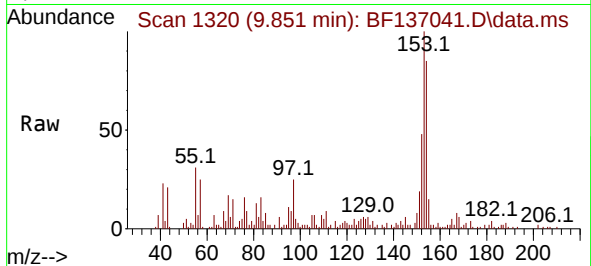




#52
Acenaphthene
Concen: 3.697 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

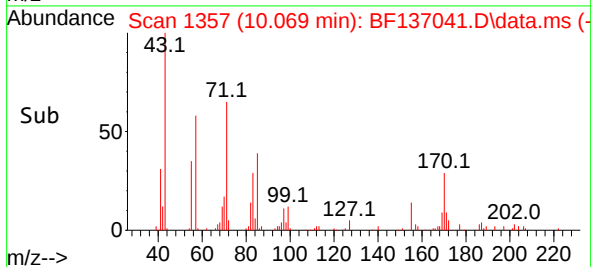
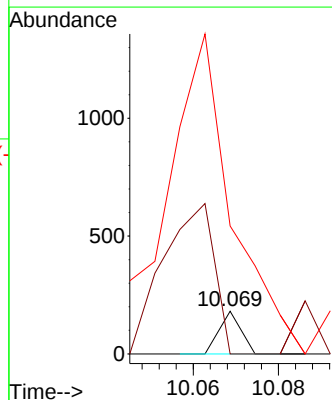
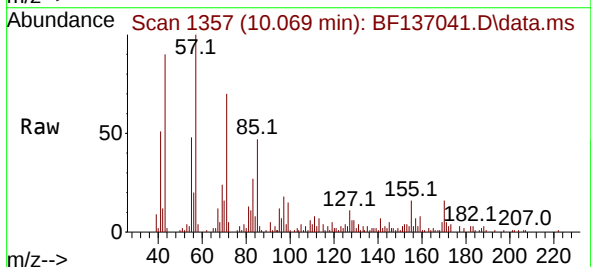
Instrument :
BNA_F
ClientSampleId :
HD-01-010824DL

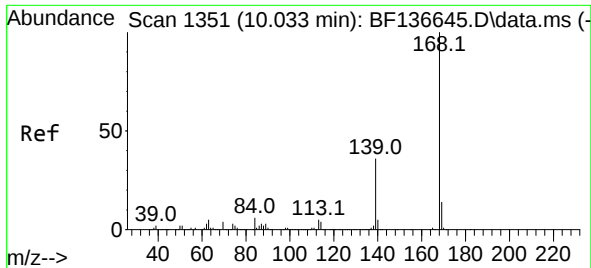
Tgt Ion:154 Resp: 15581
Ion Ratio Lower Upper
154 100
153 117.7 90.7 136.1
152 56.5 43.7 65.5



#54
2,4-Dinitrophenol
Concen: 3.830 ng
RT: 10.069 min Scan# 1357
Delta R.T. 0.171 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

Tgt Ion:184 Resp: 64
Ion Ratio Lower Upper
184 100
63 0.0 40.9 61.3#
154 300.0 42.7 64.1#

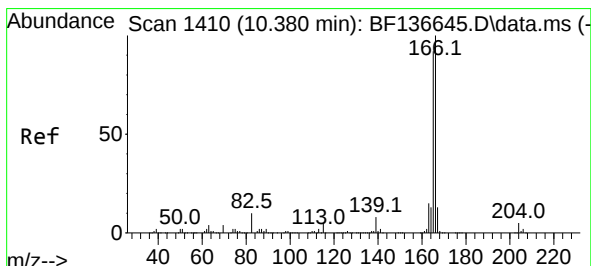
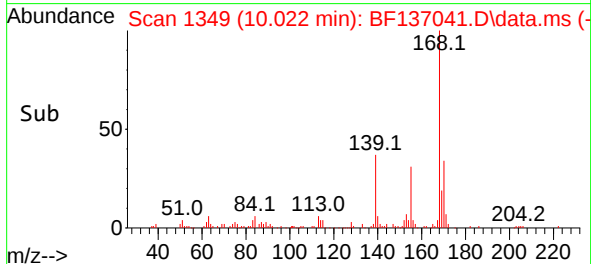
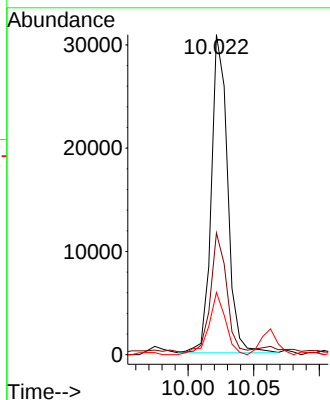
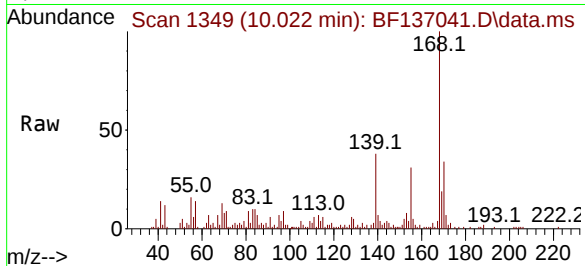




#55
Dibenzenofuran
Concen: 4.164 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

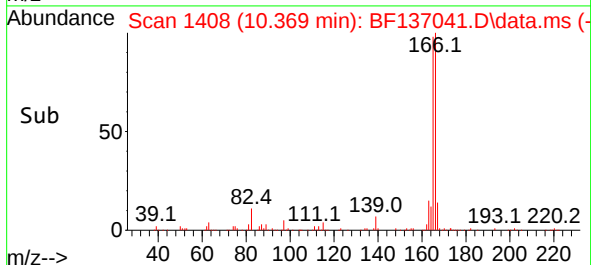
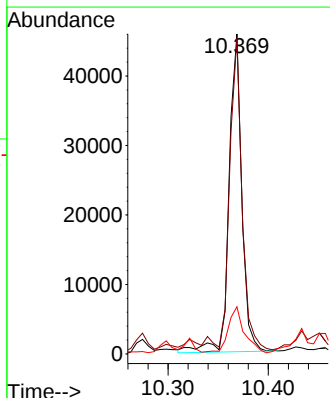
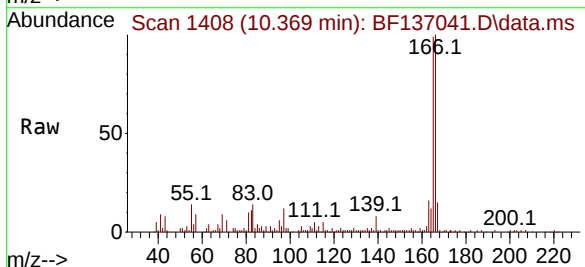
Instrument :
BNA_F
ClientSampleId :
HD-01-010824DL

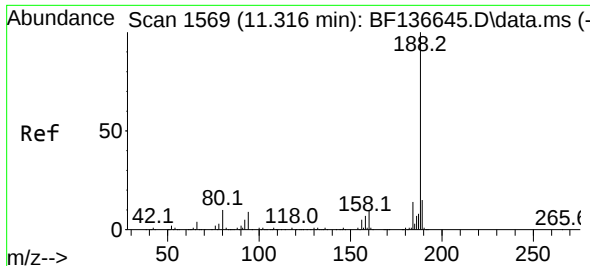
Tgt Ion:168 Resp: 26602
Ion Ratio Lower Upper
168 100
139 38.0 29.3 43.9
169 19.4 11.0 16.4#



#58
Fluorene
Concen: 7.992 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

Tgt Ion:166 Resp: 40507
Ion Ratio Lower Upper
166 100
165 98.6 73.7 110.5
167 14.7 10.4 15.6

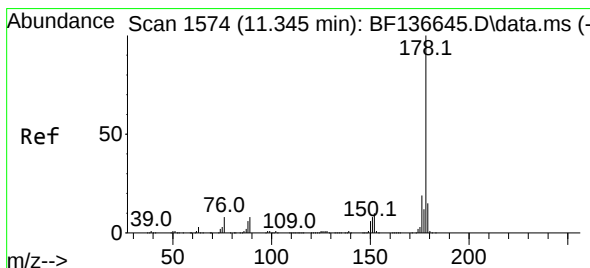
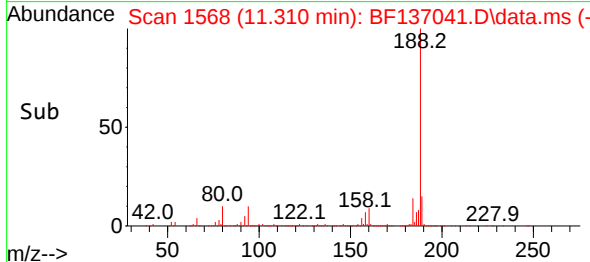
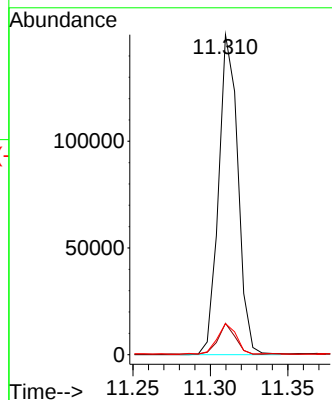
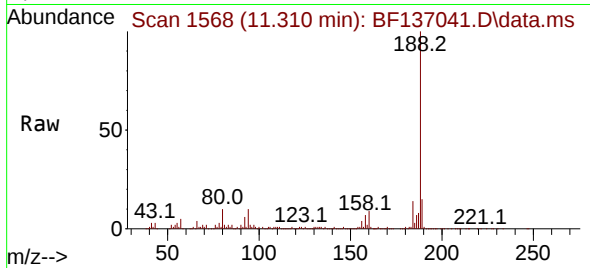




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

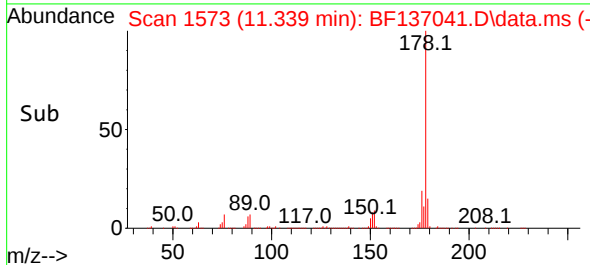
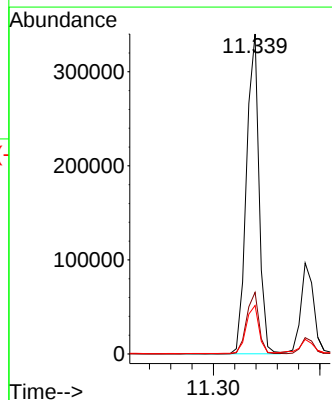
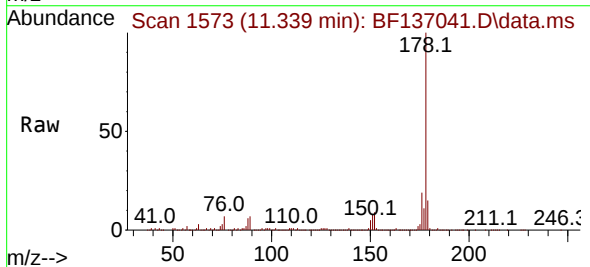
Instrument :
BNA_F
ClientSampleId :
HD-01-010824DL

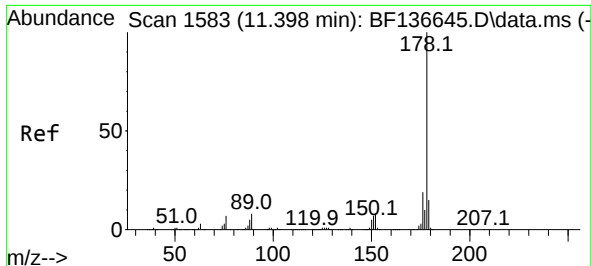
Tgt Ion:188 Resp: 130299
Ion Ratio Lower Upper
188 100
94 9.8 7.5 11.3
80 9.7 8.1 12.1



#71
Phenanthrene
Concen: 41.659 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

Tgt Ion:178 Resp: 278522
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.1 11.9 17.9

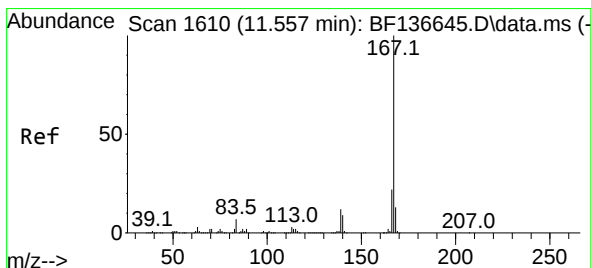
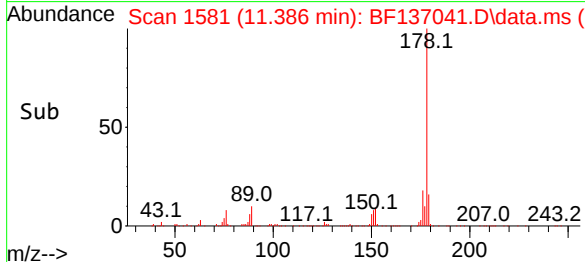
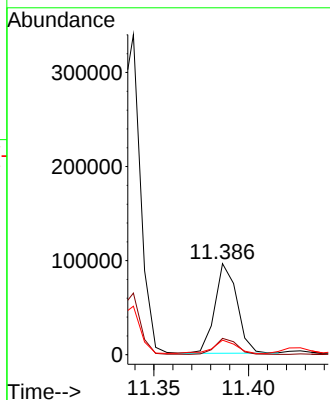
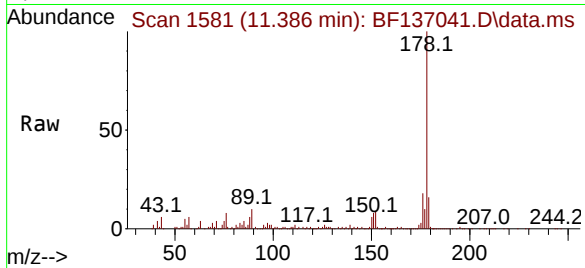




#72
 Anthracene
 Concen: 11.521 ng
 RT: 11.386 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF137041.D
 Acq: 11 Jan 2024 16:17

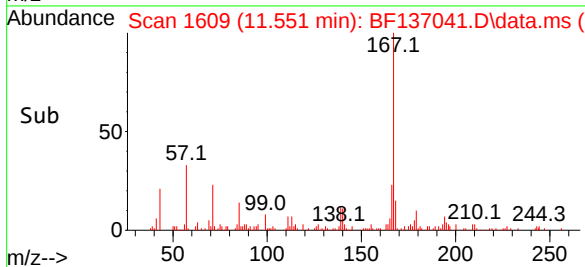
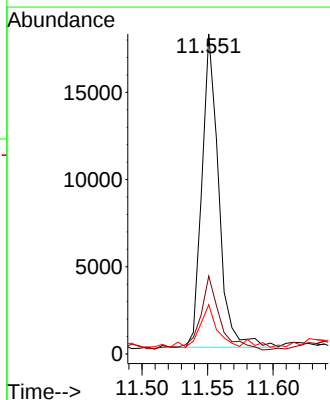
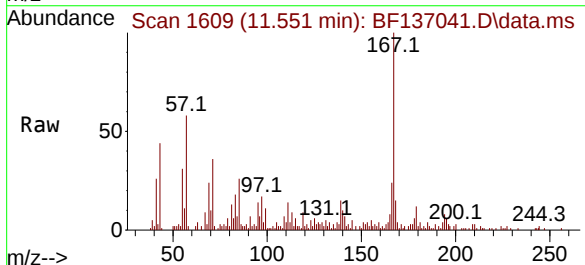
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-010824DL

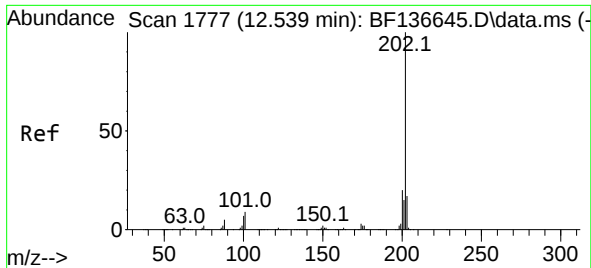
Tgt Ion:178 Resp: 78008
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.9 22.3
 179 16.0 11.8 17.6



#73
 Carbazole
 Concen: 2.506 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.006 min
 Lab File: BF137041.D
 Acq: 11 Jan 2024 16:17

Tgt Ion:167 Resp: 15995
 Ion Ratio Lower Upper
 167 100
 166 24.3 17.3 25.9
 139 15.4 9.8 14.6#

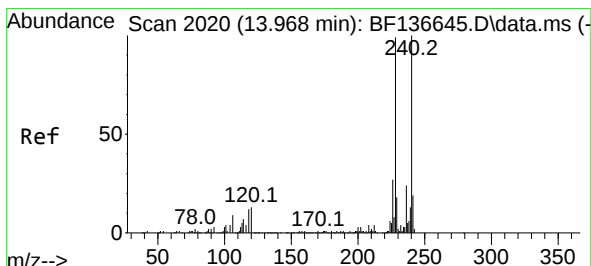
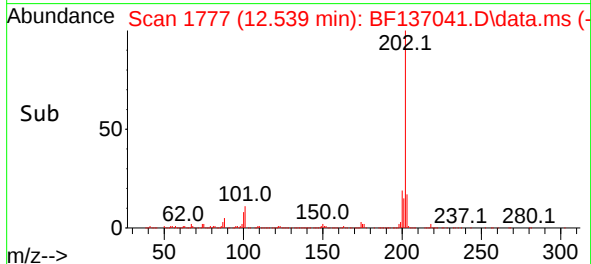
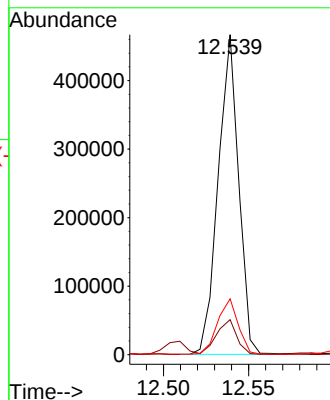
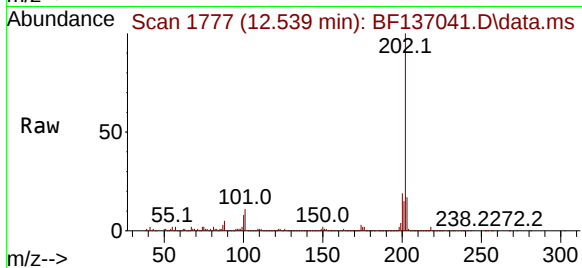




#75
Fluoranthene
Concen: 54.619 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

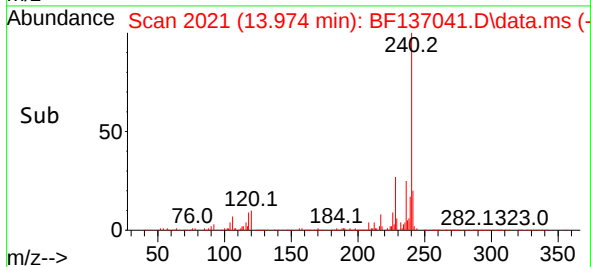
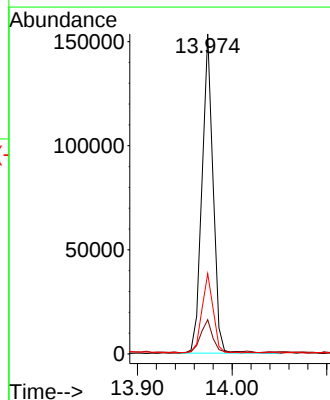
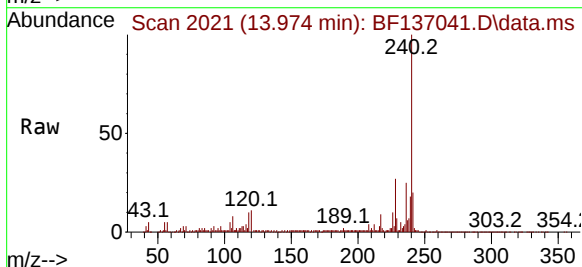
Instrument :
BNA_F
ClientSampleId :
HD-01-010824DL

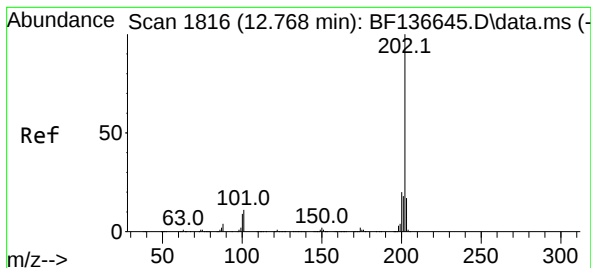
Tgt Ion:202 Resp: 390602
Ion Ratio Lower Upper
202 100
101 10.9 0.0 29.3
203 17.5 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF137041.D
Acq: 11 Jan 2024 16:17

Tgt Ion:240 Resp: 124686
Ion Ratio Lower Upper
240 100
120 10.7 10.3 15.5
236 25.1 19.4 29.2





#78

Pyrene

Concen: 27.305 ng

RT: 12.768 min Scan# 1816

Delta R.T. 0.000 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

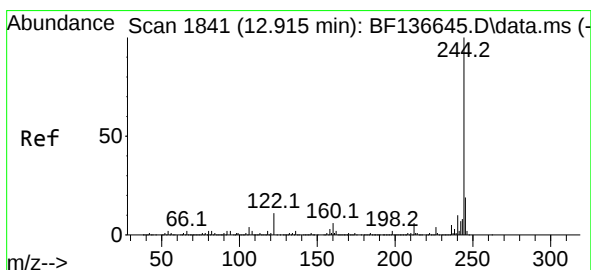
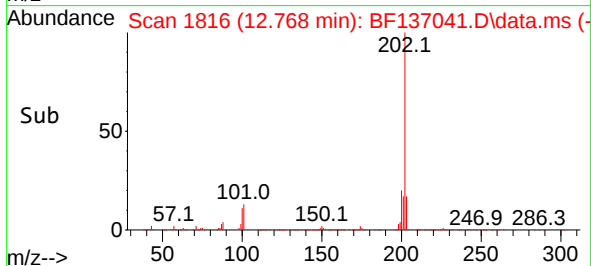
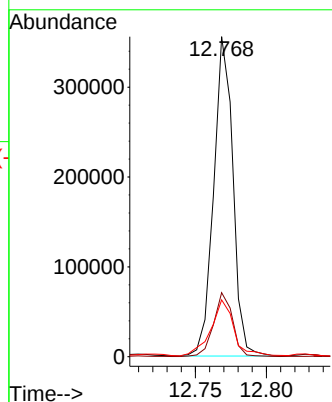
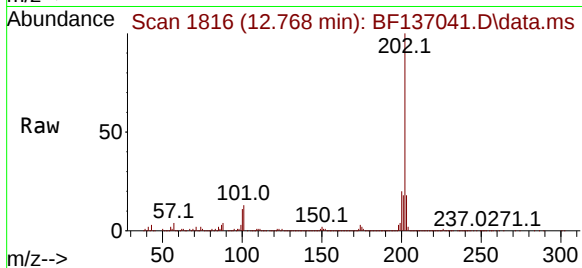
Tgt Ion:202 Resp: 334218

Ion Ratio Lower Upper

202 100

200 20.0 15.9 23.9

203 17.8 13.8 20.6



#79

Terphenyl-d14

Concen: 14.347 ng

RT: 12.910 min Scan# 1840

Delta R.T. -0.006 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

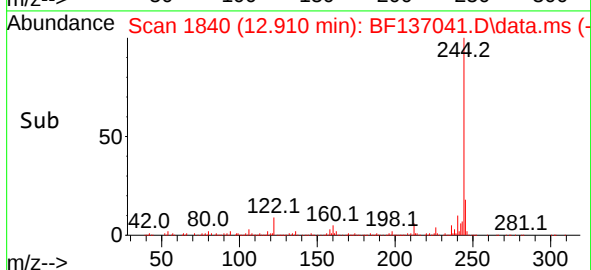
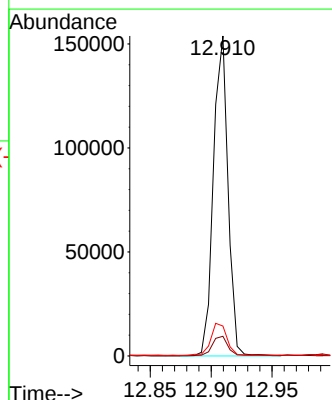
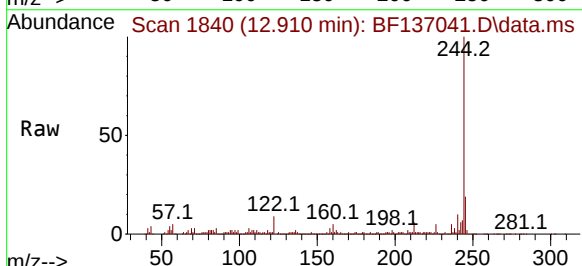
Tgt Ion:244 Resp: 128005

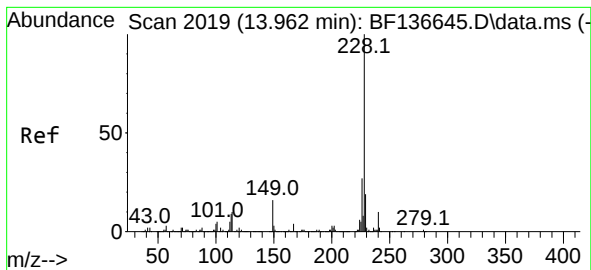
Ion Ratio Lower Upper

244 100

212 6.2 5.0 7.4

122 9.4 9.0 13.4





#81

Benzo(a)anthracene

Concen: 21.371 ng

RT: 13.963 min Scan# 2019

Delta R.T. 0.000 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

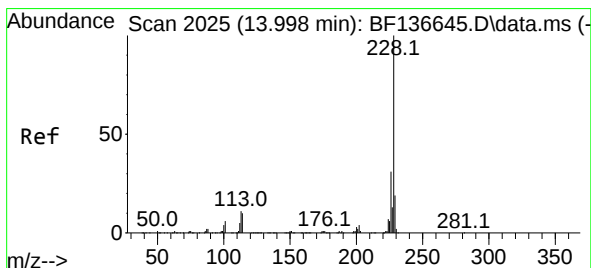
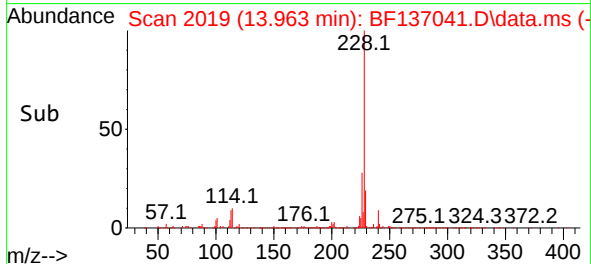
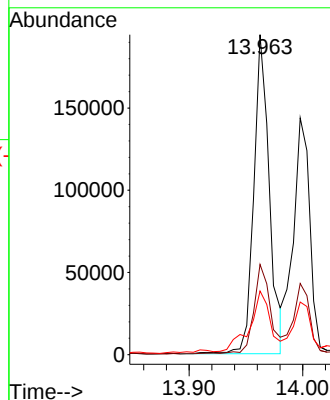
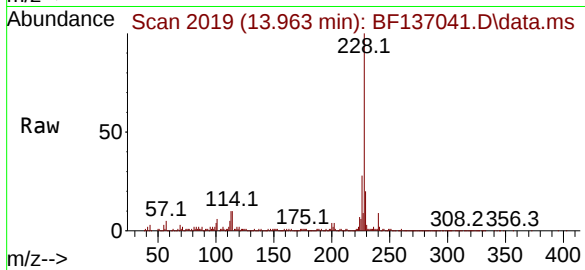
Tgt Ion:228 Resp: 185030

Ion Ratio Lower Upper

228 100

226 28.2 21.4 32.0

229 19.9 14.9 22.3



#83

Chrysene

Concen: 17.247 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.000 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

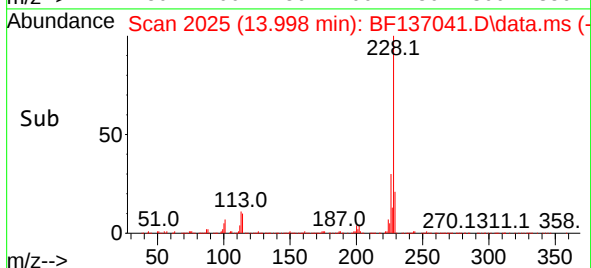
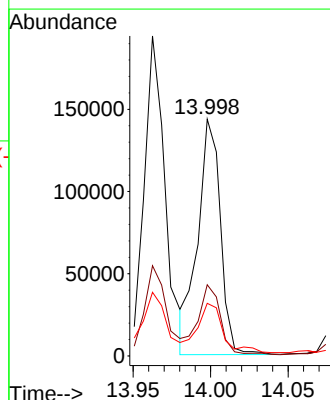
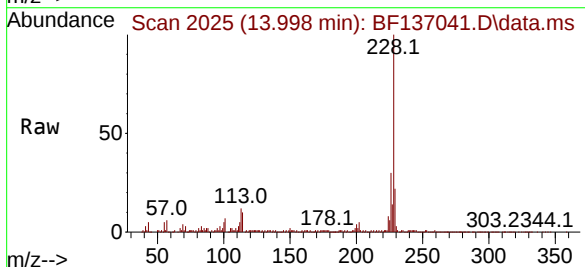
Tgt Ion:228 Resp: 146021

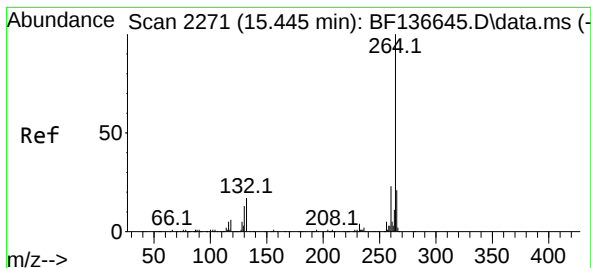
Ion Ratio Lower Upper

228 100

226 30.1 24.7 37.1

229 22.2 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.462 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

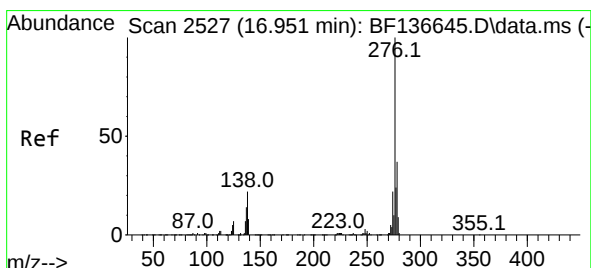
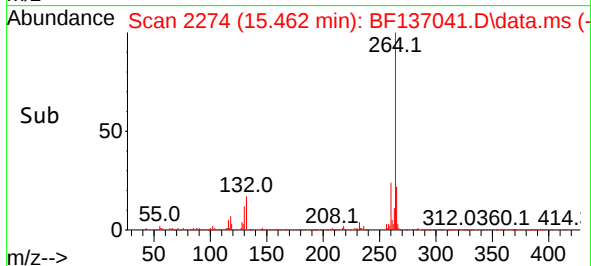
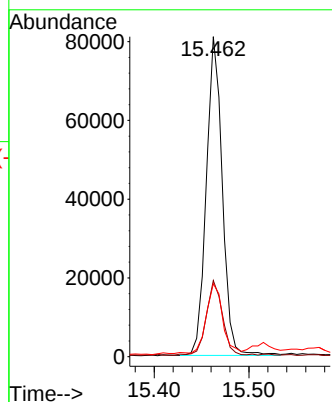
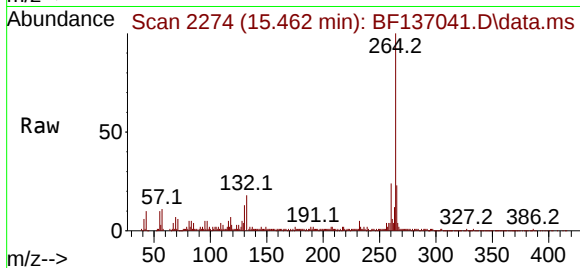
Tgt Ion:264 Resp: 94818

Ion Ratio Lower Upper

264 100

260 23.8 18.3 27.5

265 22.8 17.0 25.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.684 ng

RT: 16.986 min Scan# 2533

Delta R.T. 0.035 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

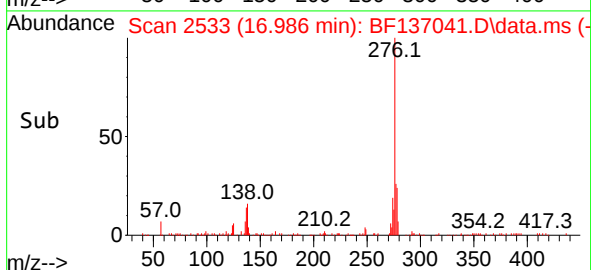
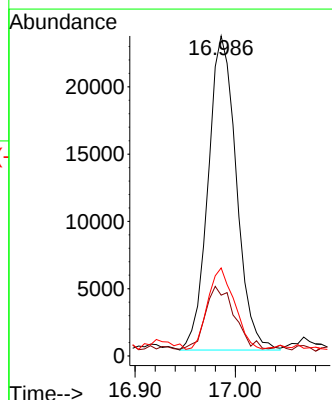
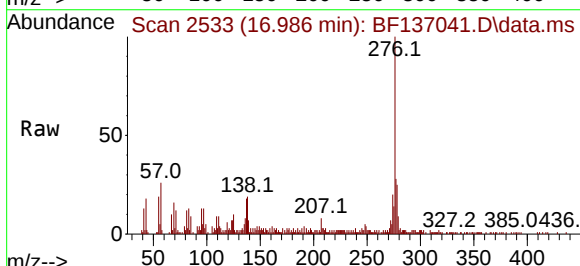
Tgt Ion:276 Resp: 45761

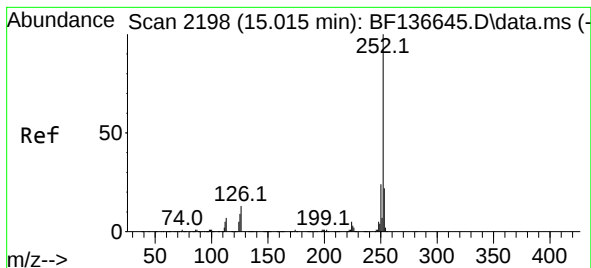
Ion Ratio Lower Upper

276 100

138 20.5 18.7 28.1

277 24.5 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 29.898 ng

RT: 15.027 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

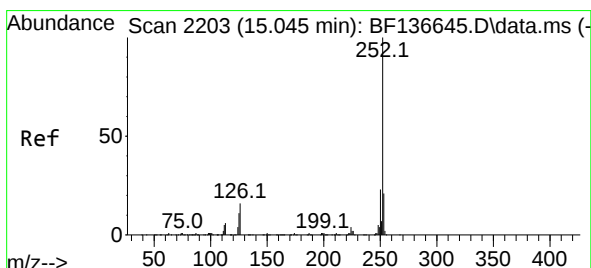
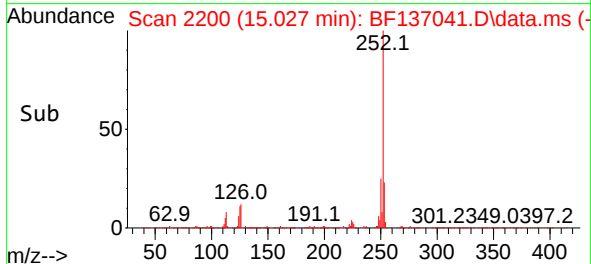
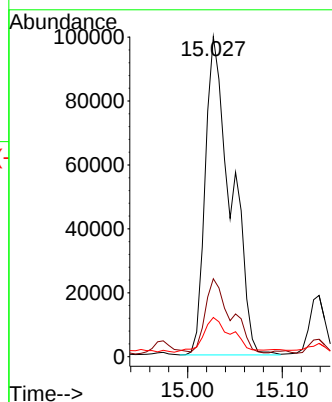
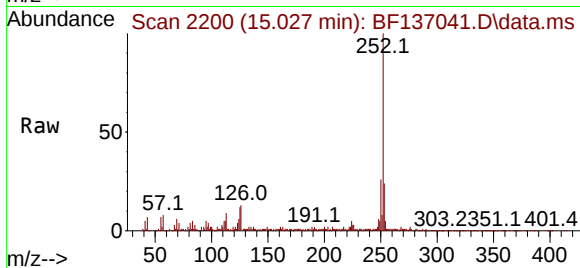
Tgt Ion:252 Resp: 189344

Ion Ratio Lower Upper

252 100

253 24.3 17.4 26.0

125 12.2 7.4 11.2#



#89

Benzo(k)fluoranthene

Concen: 31.641 ng

RT: 15.027 min Scan# 2200

Delta R.T. -0.018 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

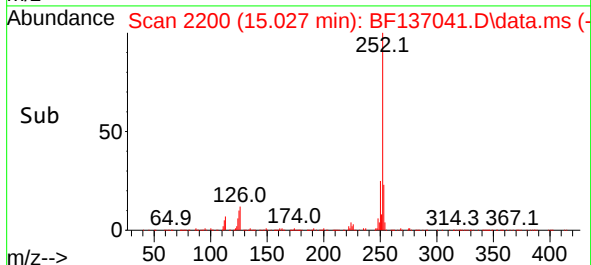
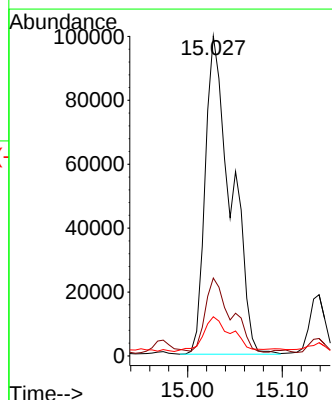
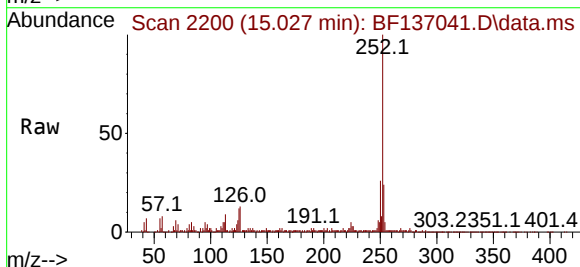
Tgt Ion:252 Resp: 189344

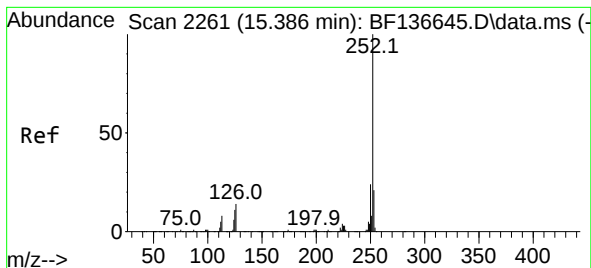
Ion Ratio Lower Upper

252 100

253 24.3 17.0 25.6

125 12.2 8.2 12.4





#90

Benzo(a)pyrene

Concen: 17.702 ng

RT: 15.398 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL

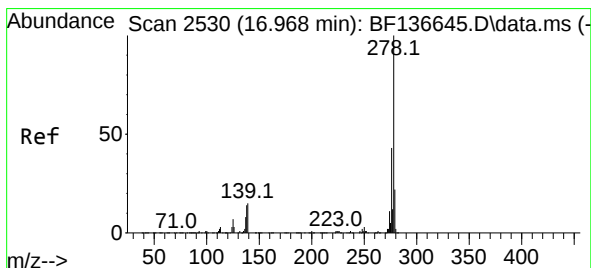
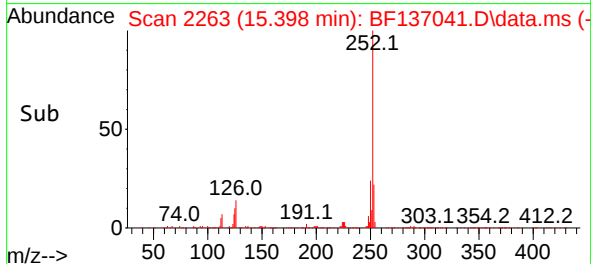
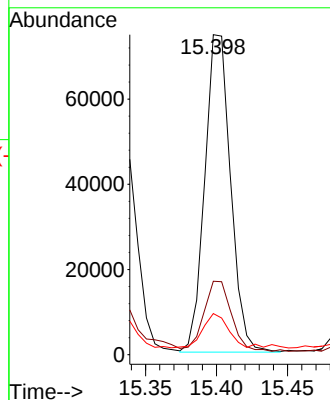
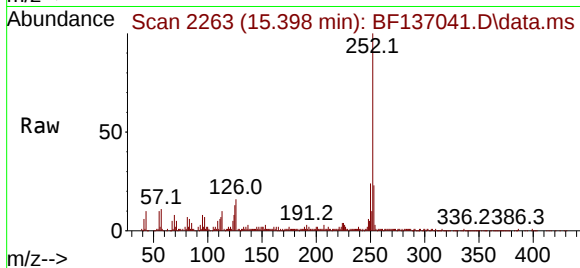
Tgt Ion:252 Resp: 94630

Ion Ratio Lower Upper

252 100

253 22.9 17.0 25.6

125 12.8 8.8 13.2



#91

Dibenzo(a,h)anthracene

Concen: 2.463 ng

RT: 16.992 min Scan# 2534

Delta R.T. 0.024 min

Lab File: BF137041.D

Acq: 11 Jan 2024 16:17

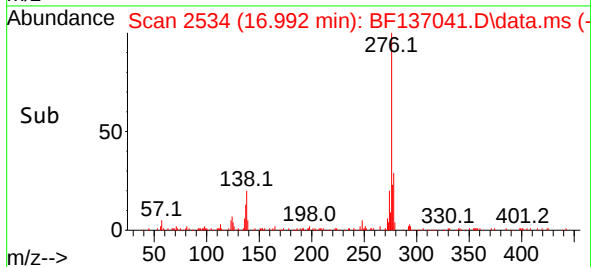
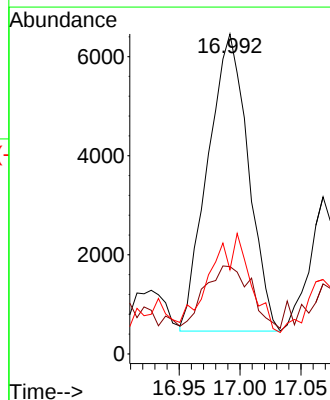
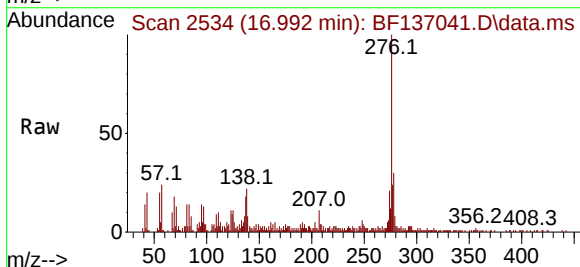
Tgt Ion:278 Resp: 13831

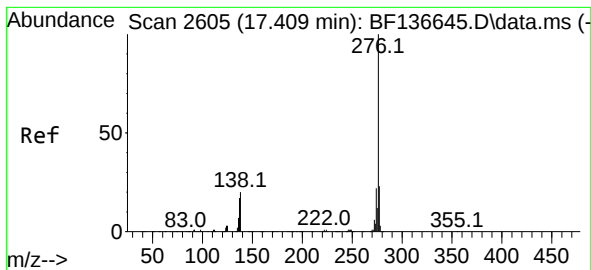
Ion Ratio Lower Upper

278 100

139 27.3 12.2 18.4#

279 26.3 17.8 26.6





#92

Benzo(g,h,i)perylene

Concen: 6.801 ng

RT: 17.451 min Scan# 2

Delta R.T. 0.041 min

Lab File: BF137041.D

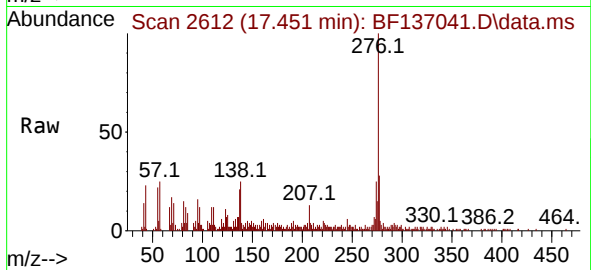
Acq: 11 Jan 2024 16:17

Instrument :

BNA_F

ClientSampleId :

HD-01-010824DL



Tgt Ion:276 Resp: 39122

Ion Ratio Lower Upper

276 100

277 27.5 18.3 27.5#

138 24.6 15.6 23.4#

