

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062923\
 Data File : BF134041.D
 Acq On : 29 Jun 2023 17:29
 Operator : CG\JU
 Sample : 03394-01RE 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1651RE

Quant Time: Jun 30 06:00:06 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 26 23:12:04 2023
 Response via : Initial Calibration

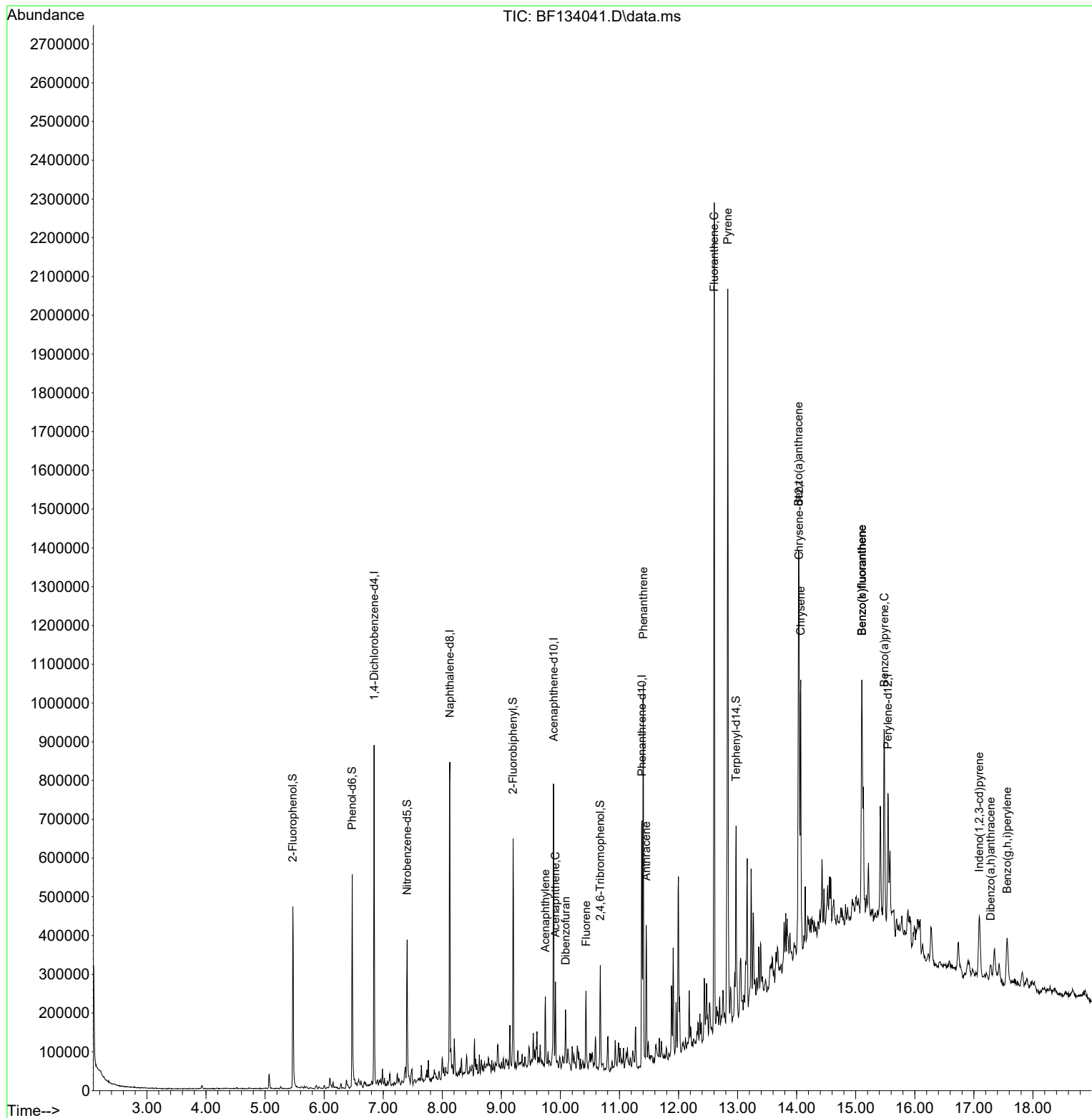
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	114818	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	350592	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	149170	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	255204	20.000	ng	0.00
76) Chrysene-d12	14.039	240	176329	20.000	ng	# 0.00
86) Perylene-d12	15.545	264	161918	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	130622	19.030	ng	-0.01
7) Phenol-d6	6.475	99	160474	19.011	ng	-0.02
23) Nitrobenzene-d5	7.404	82	102144	15.705	ng	-0.01
42) 2,4,6-Tribromophenol	10.675	330	24706	13.210	ng	-0.01
45) 2-Fluorobiphenyl	9.198	172	170103	16.579	ng	-0.01
79) Terphenyl-d14	12.974	244	160332	14.634	ng	0.00
Target Compounds						
9) Benzaldehyde	6.398	77	311	Below Cal		Qvalue # 1
49) Acenaphthylene	9.745	152	58139	3.887	ng	98
52) Acenaphthene	9.916	154	37003	4.264	ng	97
55) Dibenzofuran	10.086	168	40072	2.955	ng	# 96
58) Fluorene	10.433	166	57390	5.439	ng	97
71) Phenanthrene	11.404	178	343900	26.768	ng	99
72) Anthracene	11.451	178	146047	10.929	ng	99
75) Fluoranthene	12.604	202	850968	61.268	ng	99
78) Pyrene	12.833	202	808201	49.251	ng	99
81) Benzo(a)anthracene	14.033	228	352198	28.801	ng	96
83) Chrysene	14.069	228	307340	25.948	ng	98
87) Indeno(1,2,3-cd)pyrene	17.092	276	124202	11.054	ng	95
88) Benzo(b)fluoranthene	15.104	252	469633	49.327	ng	96
89) Benzo(k)fluoranthene	15.104	252	469633	48.447	ng	95
90) Benzo(a)pyrene	15.486	252	258606	28.089	ng	98
91) Dibenzo(a,h)anthracene	17.286	278	26669	2.906	ng	93
92) Benzo(g,h,i)perylene	17.562	276	118112	12.481	ng	95

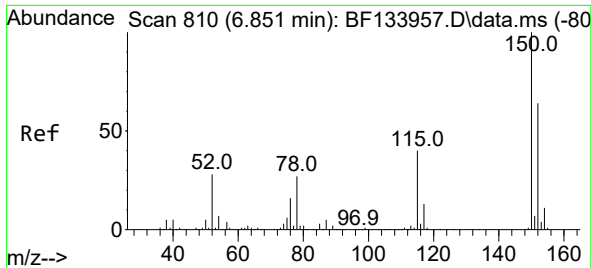
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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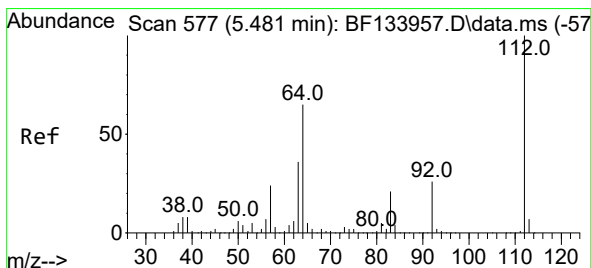
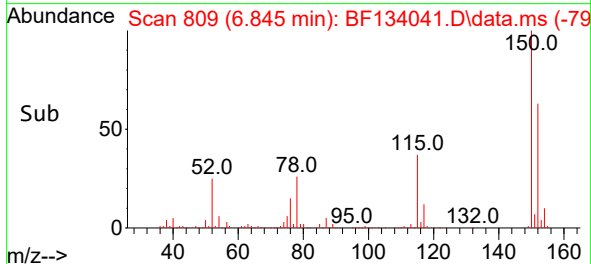
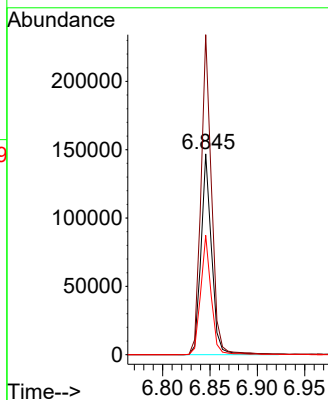
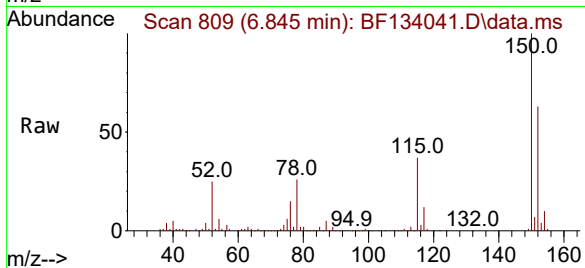




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

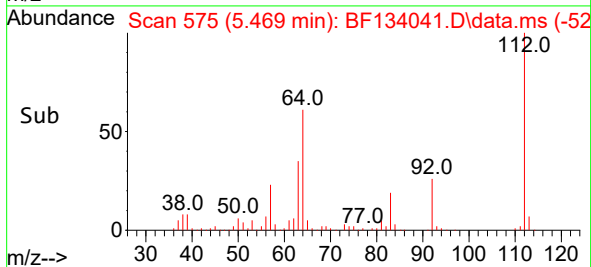
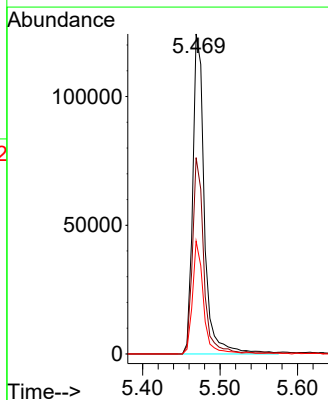
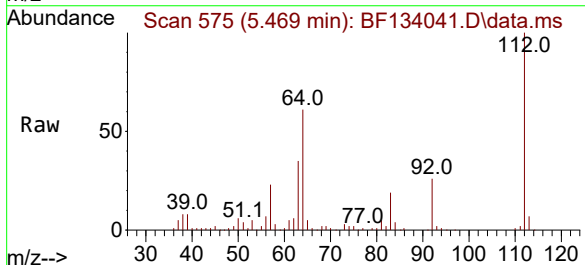
Instrument :
BNA_F
ClientSampleId :
ORA-1651RE

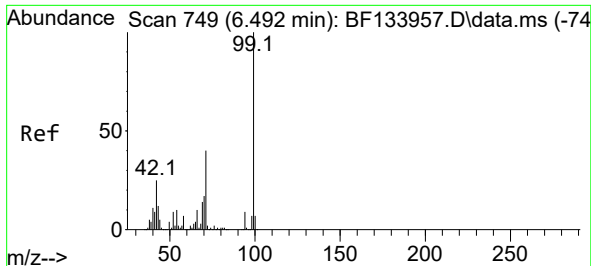
Tgt Ion:152 Resp: 114818
Ion Ratio Lower Upper
152 100
150 159.4 124.5 186.7
115 59.5 50.2 75.2



#5
2-Fluorophenol
Concen: 19.030 ng
RT: 5.469 min Scan# 575
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:112 Resp: 130622
Ion Ratio Lower Upper
112 100
64 61.4 52.1 78.1
63 35.2 28.6 42.8

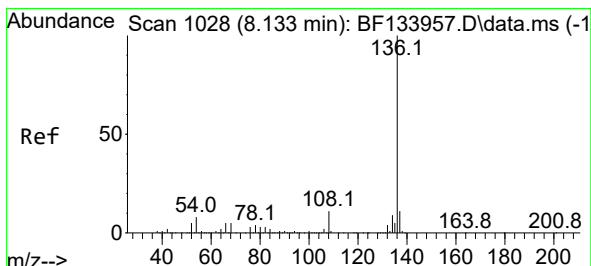
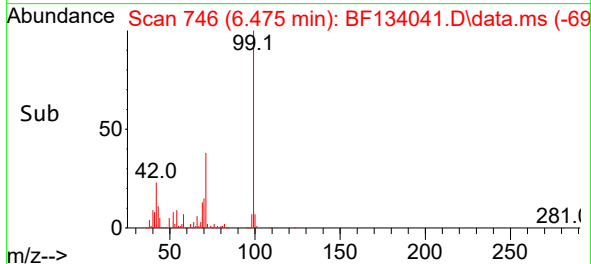
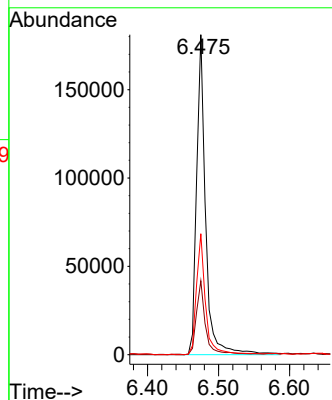
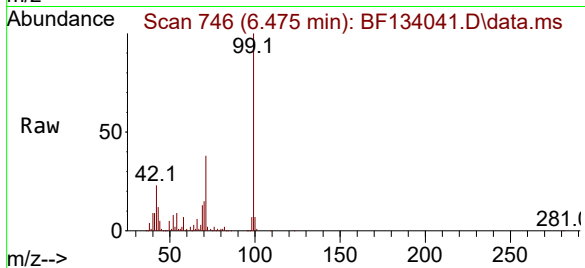




#7
Phenol-d6
Concen: 19.011 ng
RT: 6.475 min Scan# 74
Delta R.T. -0.017 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

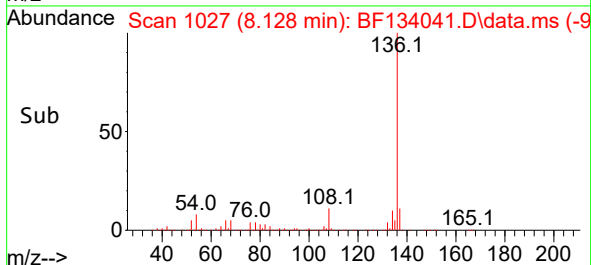
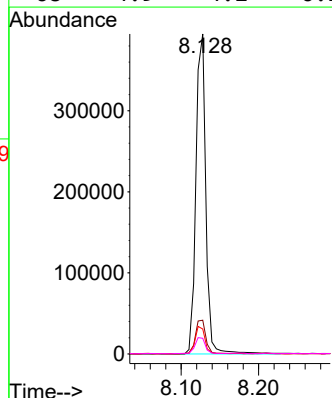
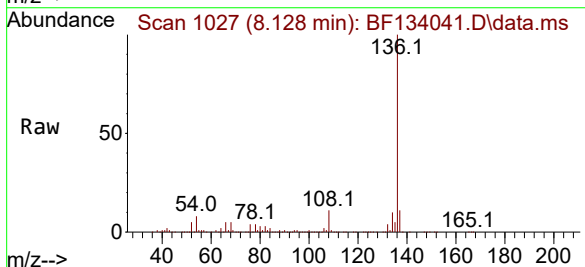
Instrument :
BNA_F
ClientSampleId :
ORA-1651RE

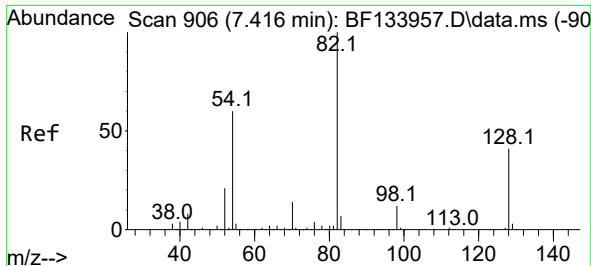
Tgt Ion: 99 Resp: 160474
Ion Ratio Lower Upper
99 100
42 23.1 19.8 29.6
71 37.8 31.9 47.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion: 136 Resp: 350592
Ion Ratio Lower Upper
136 100
137 10.5 8.6 12.8
54 7.8 6.5 9.7
68 4.9 4.2 6.2

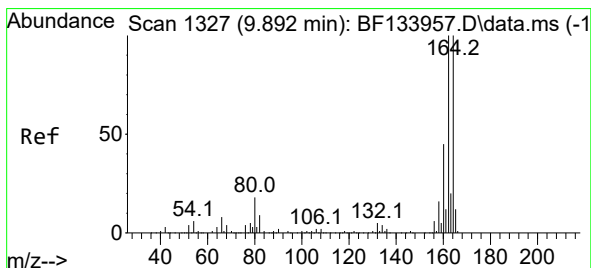
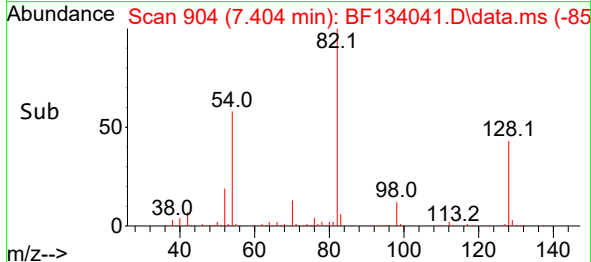
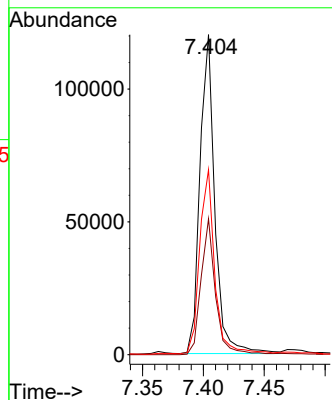
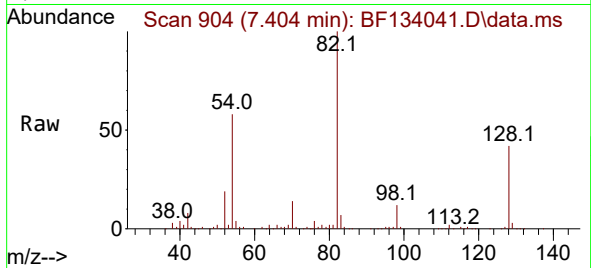




#23
Nitrobenzene-d5
Concen: 15.705 ng
RT: 7.404 min Scan# 906
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

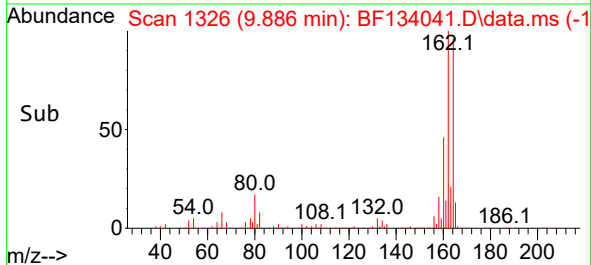
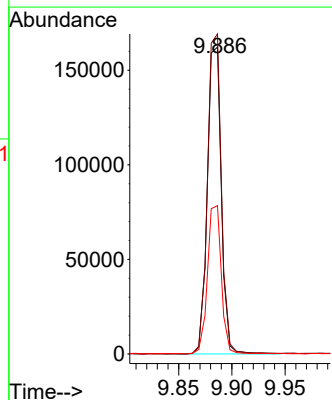
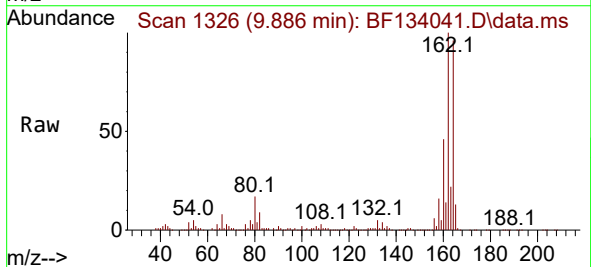
Instrument :
BNA_F
ClientSampleId :
ORA-1651RE

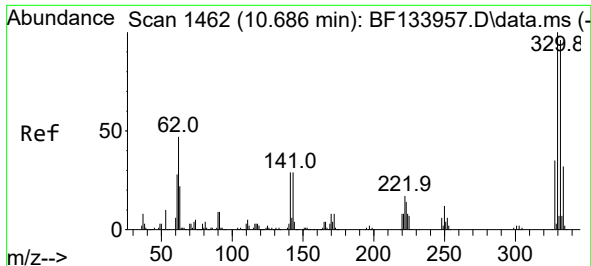
Tgt Ion: 82 Resp: 102144
Ion Ratio Lower Upper
82 100
128 42.5 32.5 48.7
54 57.8 48.2 72.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:164 Resp: 149170
Ion Ratio Lower Upper
164 100
162 104.3 80.0 120.0
160 48.3 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 13.210 ng

RT: 10.675 min Scan# 1460

Delta R.T. -0.012 min

Lab File: BF134041.D

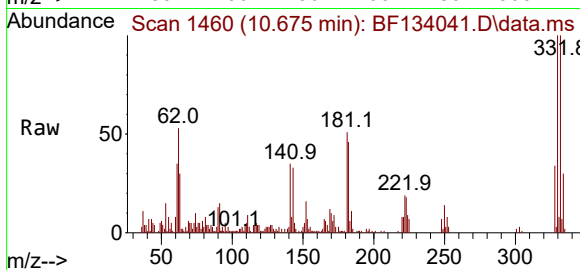
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Instrument :

BNA_F

ClientSampleId :

ORA-1651RE



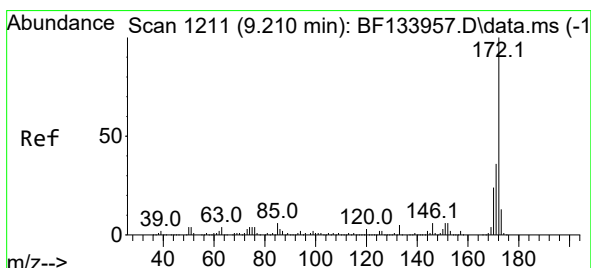
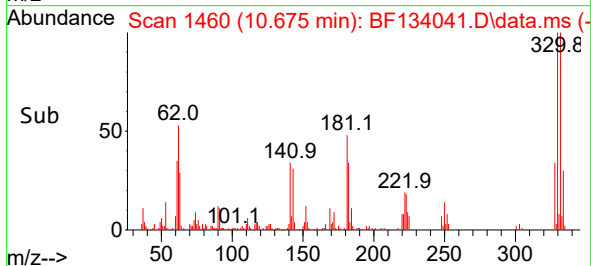
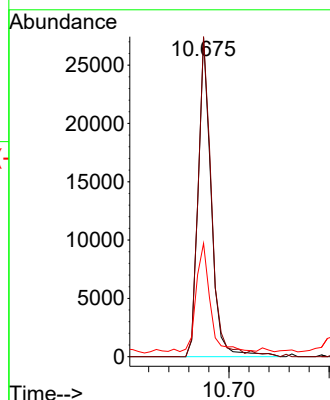
Tgt Ion:330 Resp: 24706

Ion Ratio Lower Upper

330 100

332 102.6 77.0 115.6

141 35.6 26.3 39.5



#45

2-Fluorobiphenyl

Concen: 16.579 ng

RT: 9.198 min Scan# 1209

Delta R.T. -0.012 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

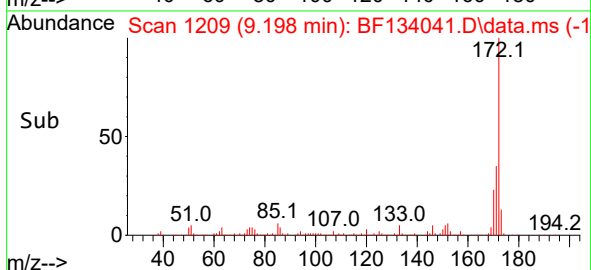
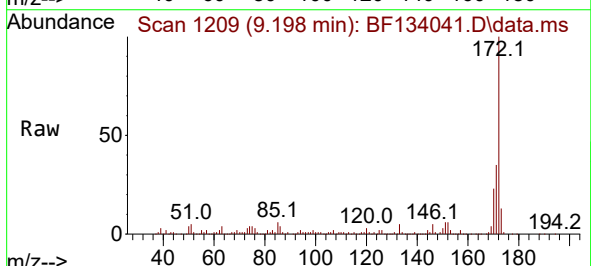
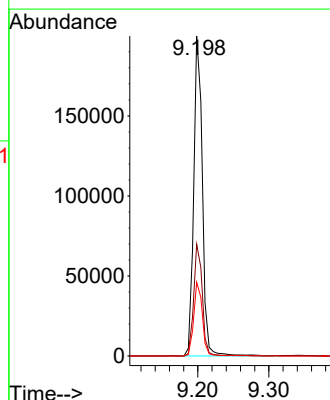
Tgt Ion:172 Resp: 170103

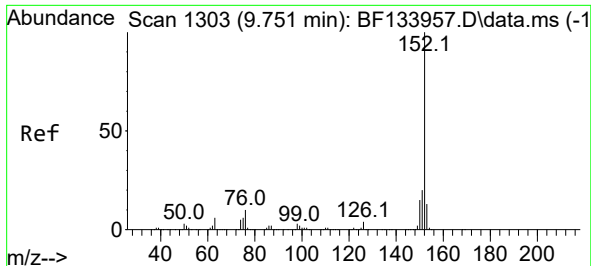
Ion Ratio Lower Upper

172 100

171 35.0 28.6 43.0

170 23.0 19.4 29.0





#49

Acenaphthylene

Concen: 3.887 ng

RT: 9.745 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

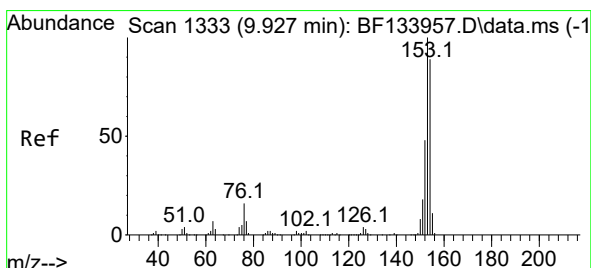
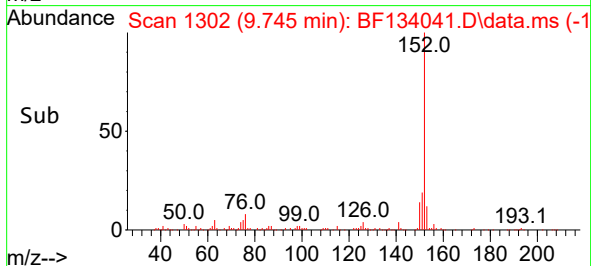
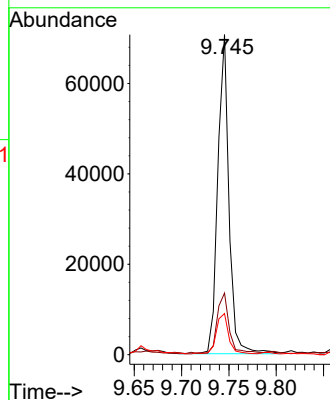
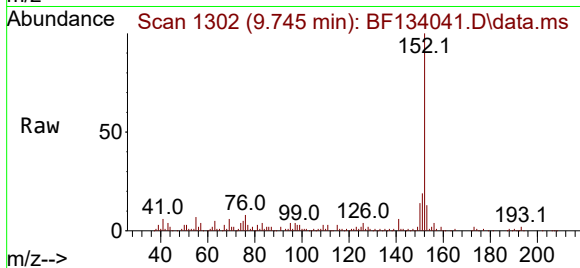
Tgt Ion:152 Resp: 58139

Ion Ratio Lower Upper

152 100

151 19.3 16.2 24.2

153 12.9 10.8 16.2



#52

Acenaphthene

Concen: 4.264 ng

RT: 9.916 min Scan# 1331

Delta R.T. -0.011 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

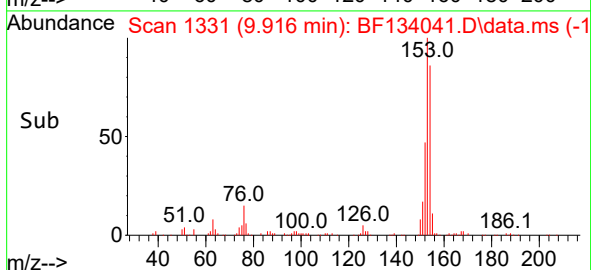
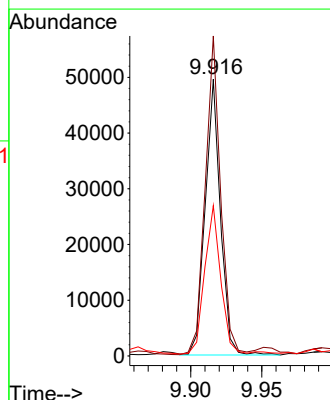
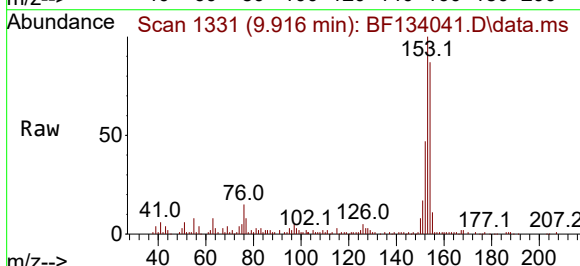
Tgt Ion:154 Resp: 37003

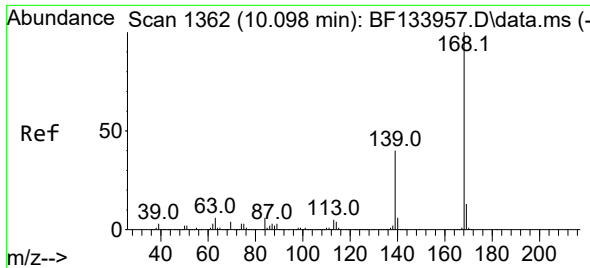
Ion Ratio Lower Upper

154 100

153 115.6 89.4 134.2

152 54.3 42.8 64.2

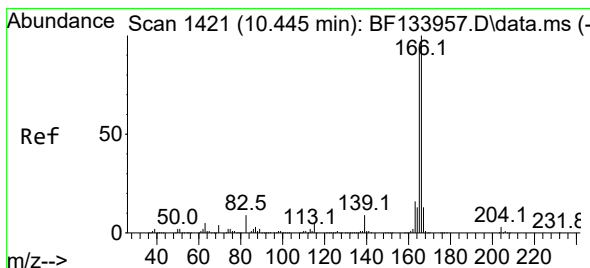
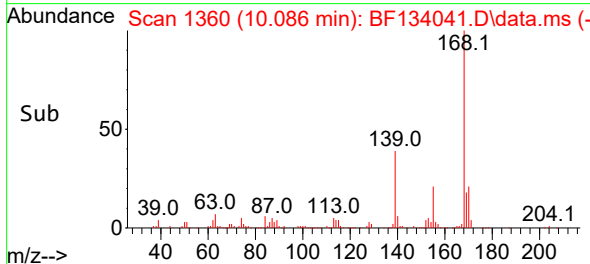
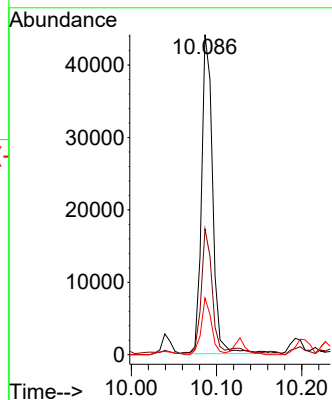
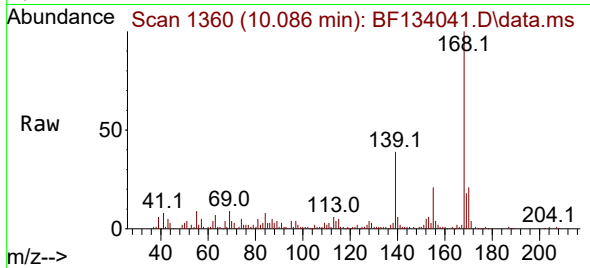




#55
Dibenzenofuran
Concen: 2.955 ng
RT: 10.086 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

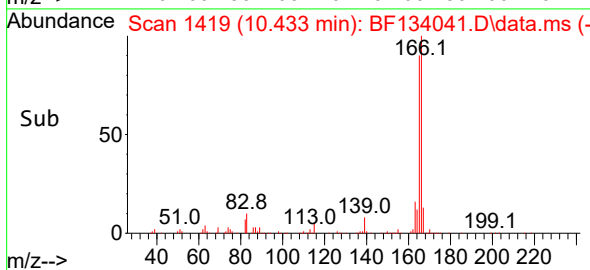
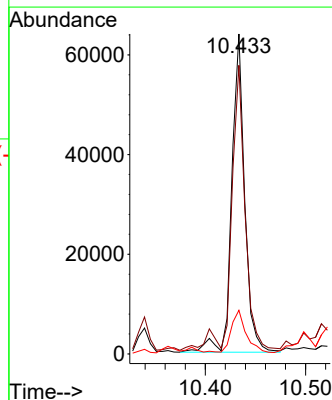
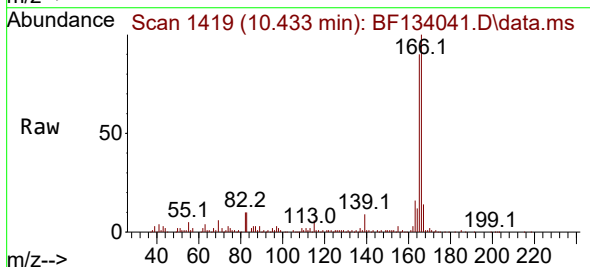
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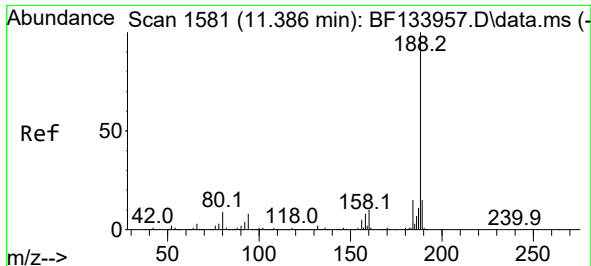
Tgt Ion:168 Resp: 40072
Ion Ratio Lower Upper
168 100
139 39.3 32.0 48.0
169 17.7 10.6 16.0#



#58
Fluorene
Concen: 5.439 ng
RT: 10.433 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:166 Resp: 57390
Ion Ratio Lower Upper
166 100
165 90.2 75.0 112.4
167 13.7 10.6 15.8

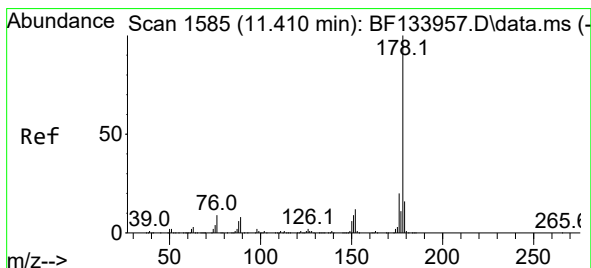
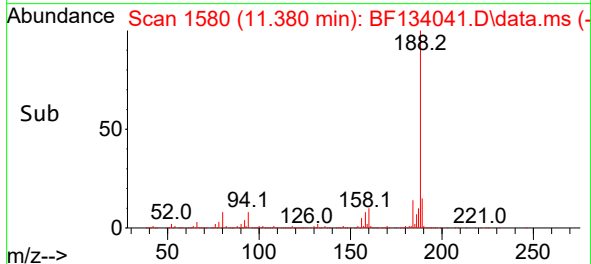
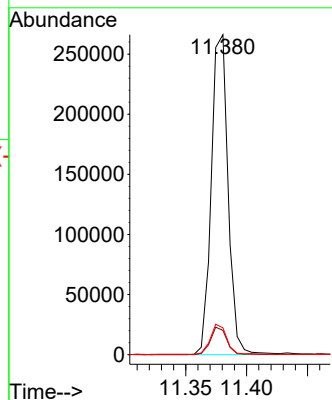
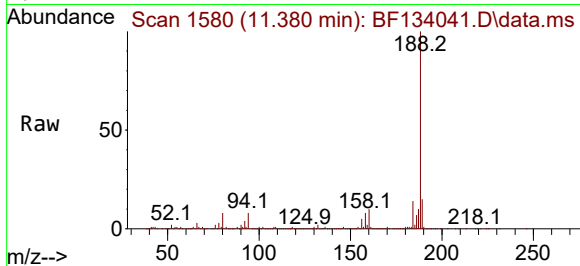




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

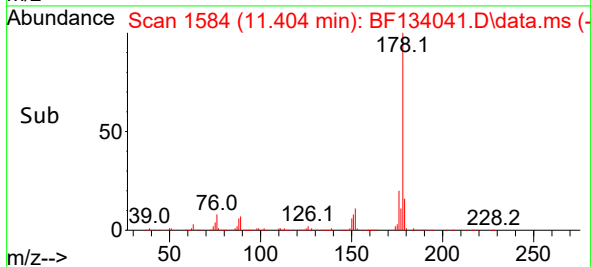
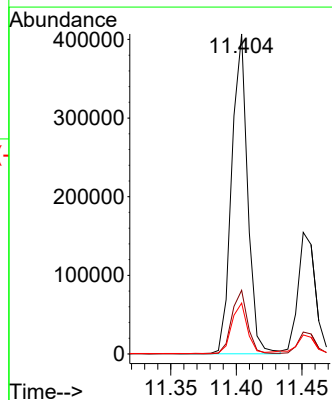
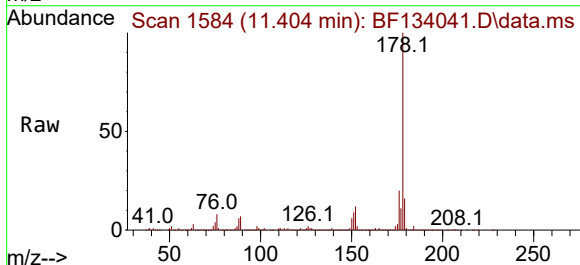
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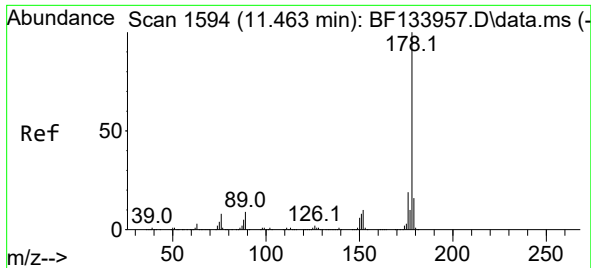
Tgt Ion:188 Resp: 255204
Ion Ratio Lower Upper
188 100
94 7.6 6.4 9.6
80 8.4 7.3 10.9



#71
Phenanthrene
Concen: 26.768 ng
RT: 11.404 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF134041.D
Acq: 29 Jun 2023 17:29

Tgt Ion:178 Resp: 343900
Ion Ratio Lower Upper
178 100
176 19.9 16.0 24.0
179 15.9 12.4 18.6

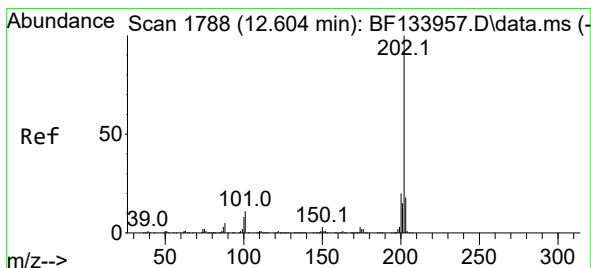
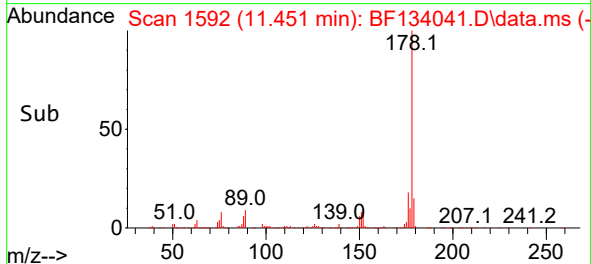
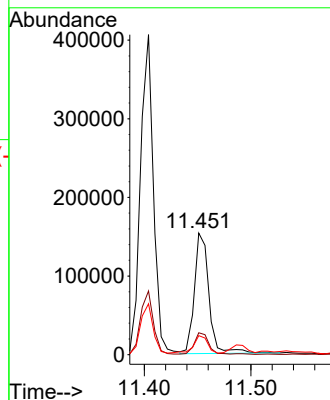
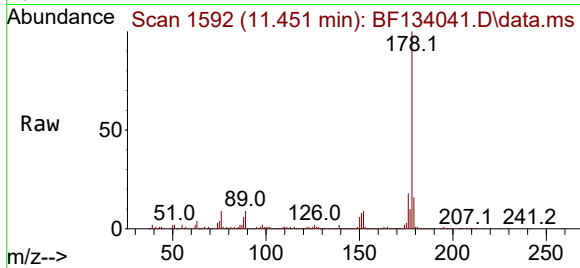




#72
 Anthracene
 Concen: 10.929 ng
 RT: 11.451 min Scan# 1594
 Delta R.T. -0.012 min
 Lab File: BF134041.D
 Acq: 29 Jun 2023 17:29

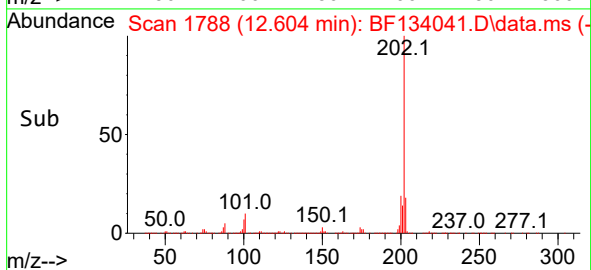
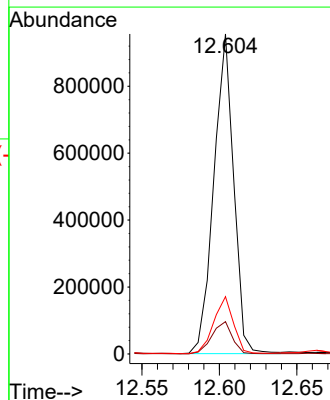
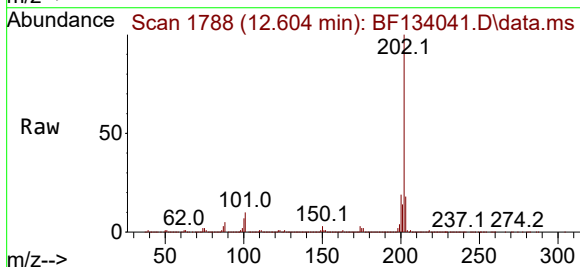
Instrument :
 BNA_F
 ClientSampleId :
 ORA-1651RE

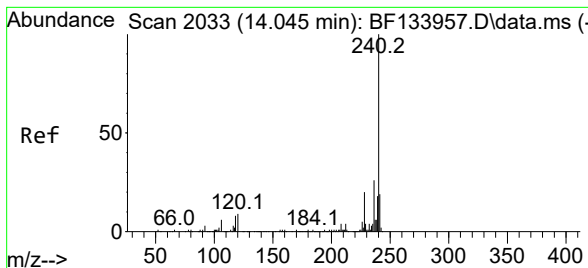
Tgt Ion:178 Resp: 146047
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.3 22.9
 179 15.6 12.4 18.6



#75
 Fluoranthene
 Concen: 61.268 ng
 RT: 12.604 min Scan# 1788
 Delta R.T. 0.000 min
 Lab File: BF134041.D
 Acq: 29 Jun 2023 17:29

Tgt Ion:202 Resp: 850968
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 31.0
 203 17.9 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. -0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

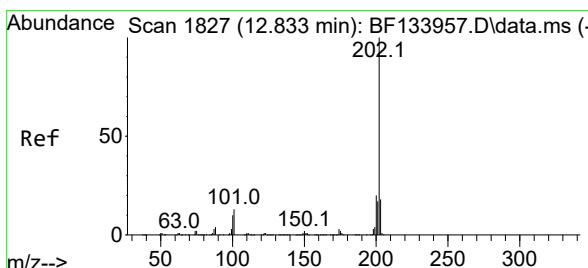
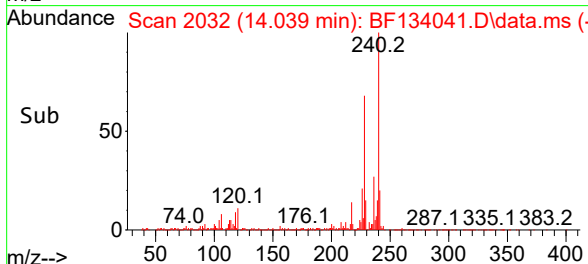
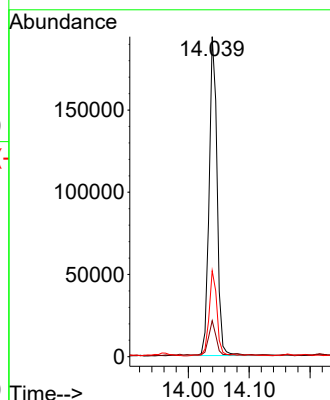
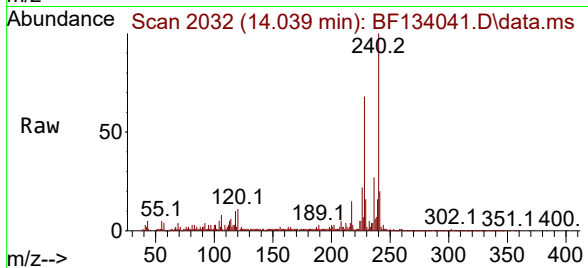
Tgt Ion:240 Resp: 176329

Ion Ratio Lower Upper

240 100

120 11.2 7.4 11.0#

236 26.8 21.0 31.6



#78

Pyrene

Concen: 49.251 ng

RT: 12.833 min Scan# 1827

Delta R.T. 0.000 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

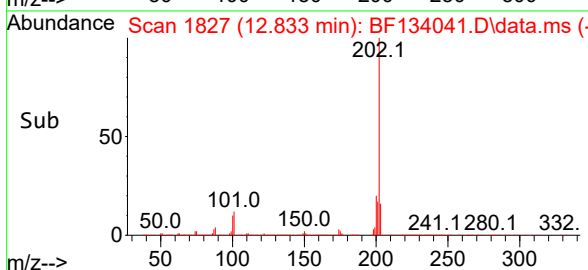
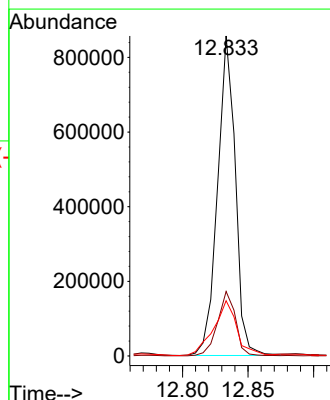
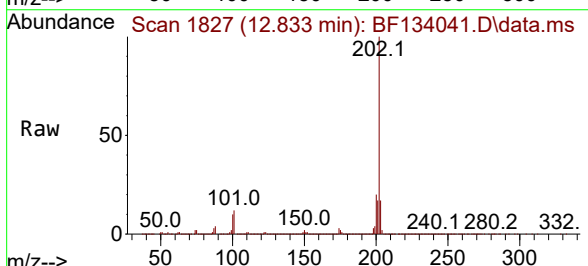
Tgt Ion:202 Resp: 808201

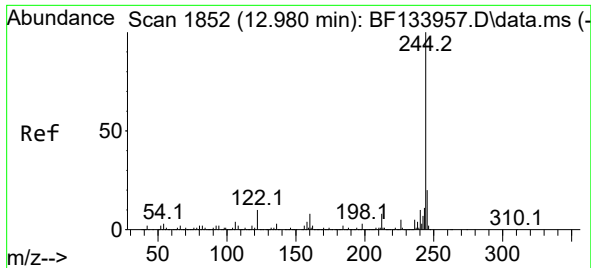
Ion Ratio Lower Upper

202 100

200 20.2 16.1 24.1

203 17.3 14.3 21.5

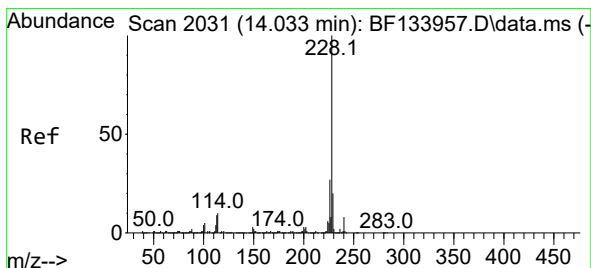
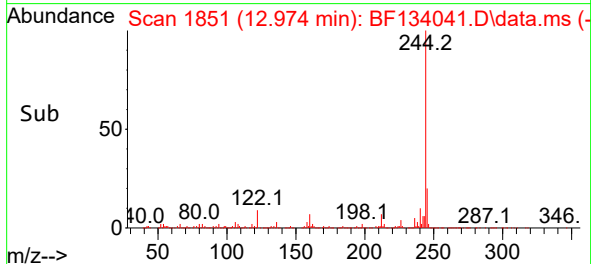
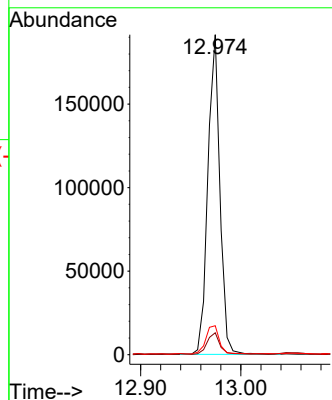
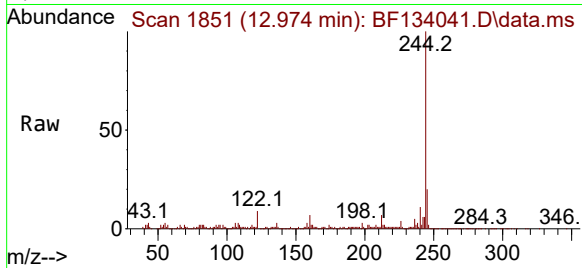




#79
 Terphenyl-d14
 Concen: 14.634 ng
 RT: 12.974 min Scan# 1851
 Delta R.T. -0.006 min
 Lab File: BF134041.D
 Acq: 29 Jun 2023 17:29

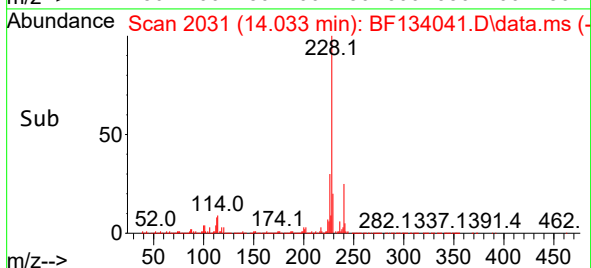
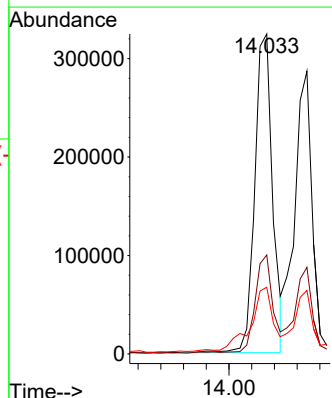
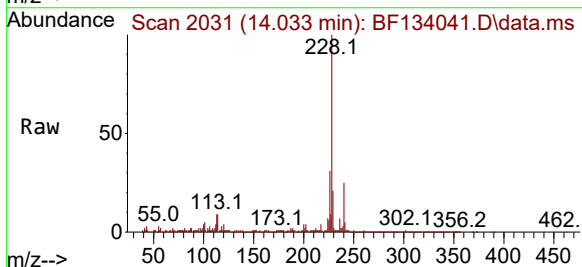
Instrument :
 BNA_F
 ClientSampleId :
 ORA-1651RE

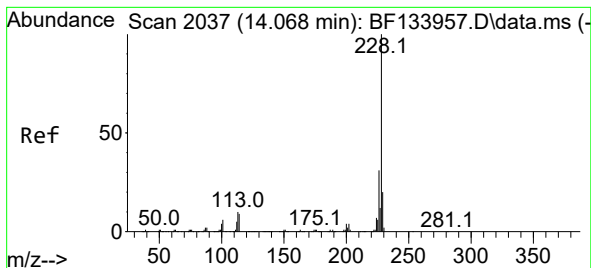
Tgt Ion:244 Resp: 160332
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 9.0 8.3 12.5



#81
 Benzo(a)anthracene
 Concen: 28.801 ng
 RT: 14.033 min Scan# 2031
 Delta R.T. 0.000 min
 Lab File: BF134041.D
 Acq: 29 Jun 2023 17:29

Tgt Ion:228 Resp: 352198
 Ion Ratio Lower Upper
 228 100
 226 31.0 22.0 33.0
 229 20.9 16.3 24.5





#83

Chrysene

Concen: 25.948 ng

RT: 14.069 min Scan# 2037

Delta R.T. 0.000 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

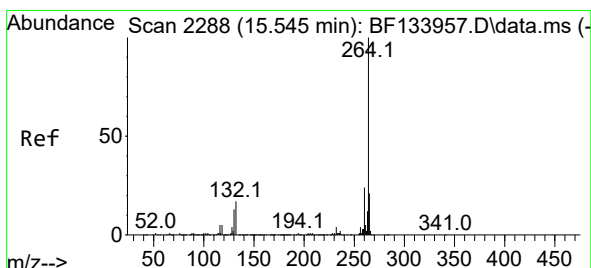
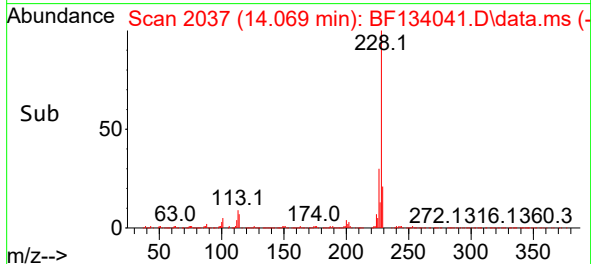
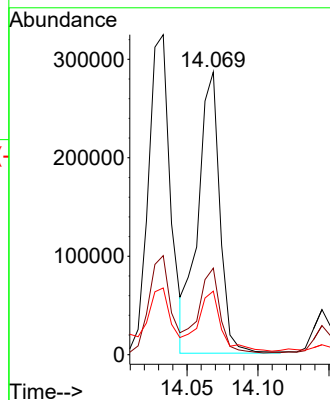
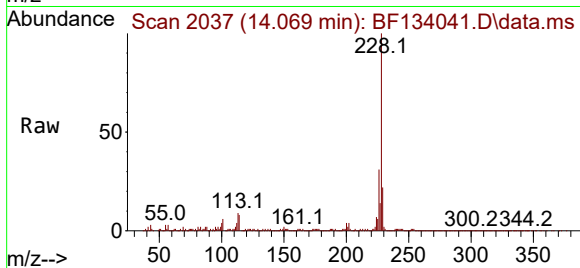
Tgt Ion:228 Resp: 307340

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 22.5 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2288

Delta R.T. 0.000 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

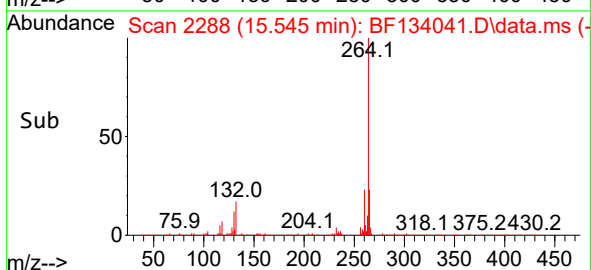
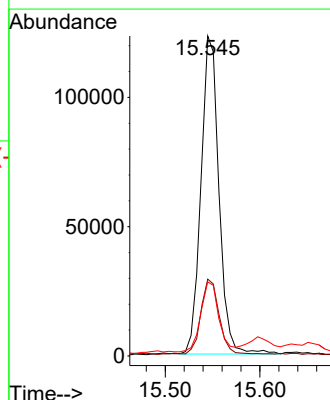
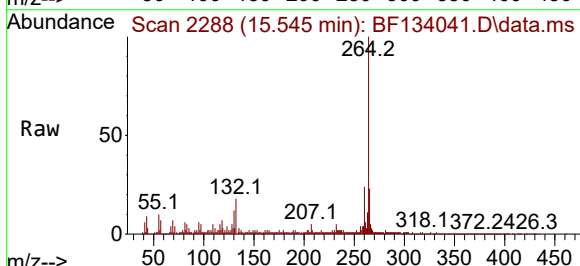
Tgt Ion:264 Resp: 161918

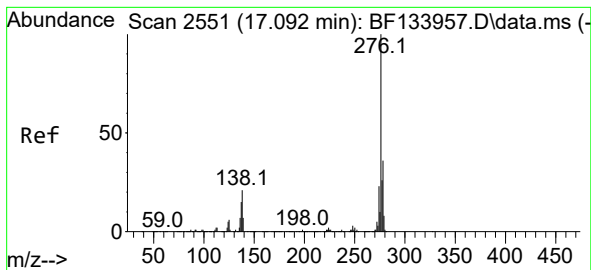
Ion Ratio Lower Upper

264 100

260 24.0 19.5 29.3

265 23.2 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.054 ng

RT: 17.092 min Scan# 2551

Delta R.T. 0.000 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

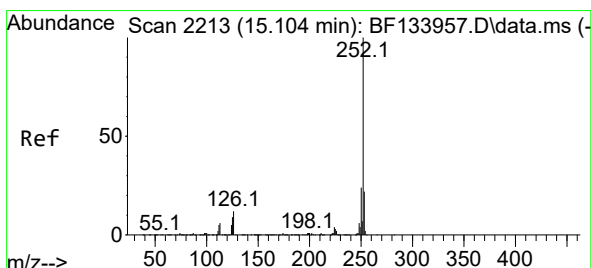
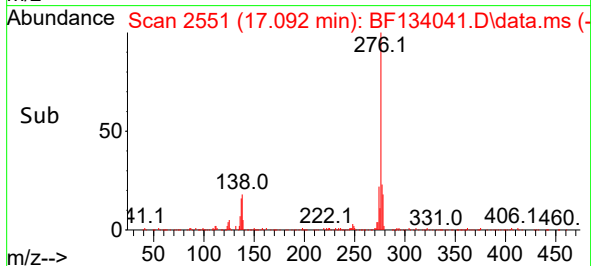
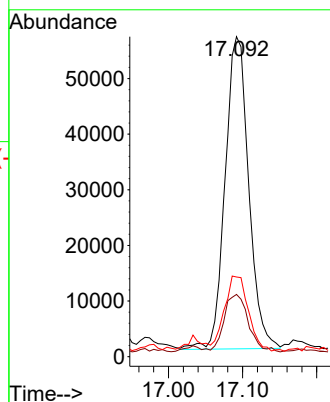
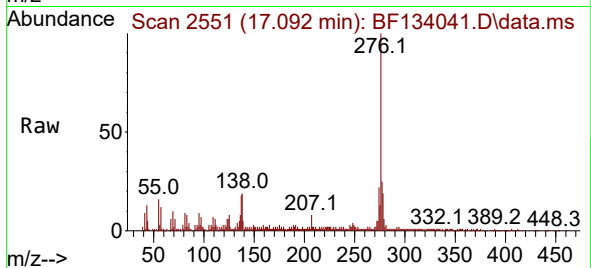
Tgt Ion:276 Resp: 124202

Ion Ratio Lower Upper

276 100

138 18.7 18.7 28.1

277 24.5 19.9 29.9



#88

Benzo(b)fluoranthene

Concen: 49.327 ng

RT: 15.104 min Scan# 2213

Delta R.T. 0.000 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

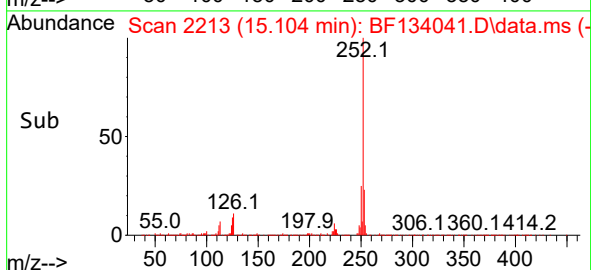
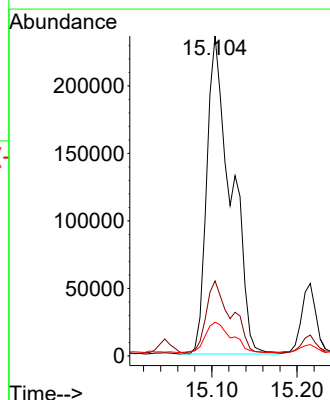
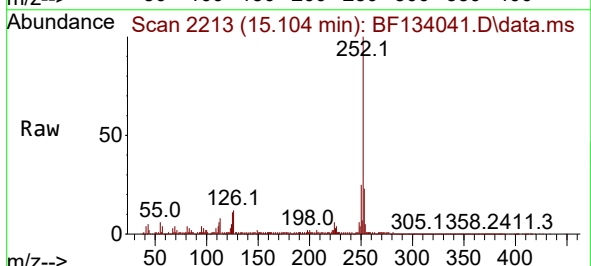
Tgt Ion:252 Resp: 469633

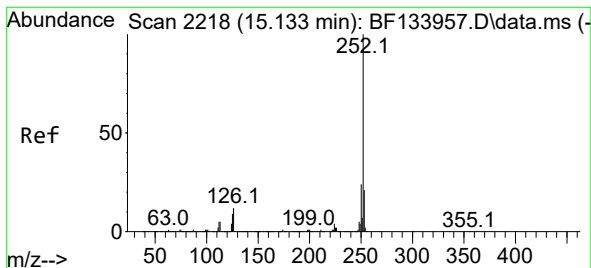
Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

125 10.5 7.1 10.7





#89

Benzo(k)fluoranthene

Concen: 48.447 ng

RT: 15.104 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

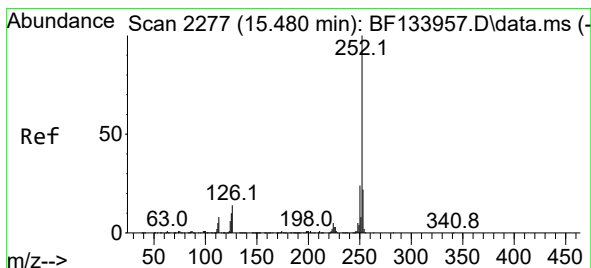
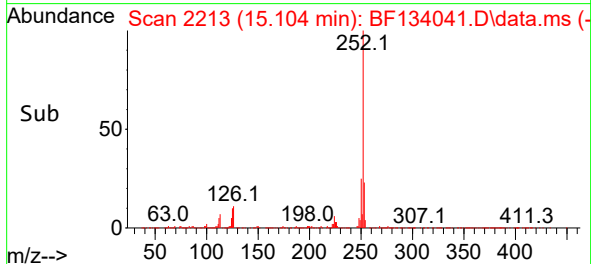
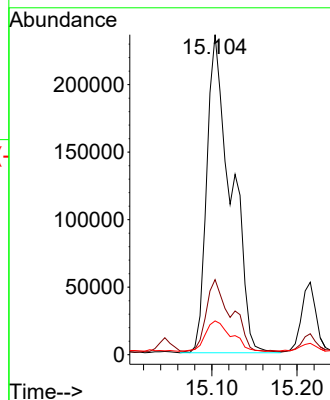
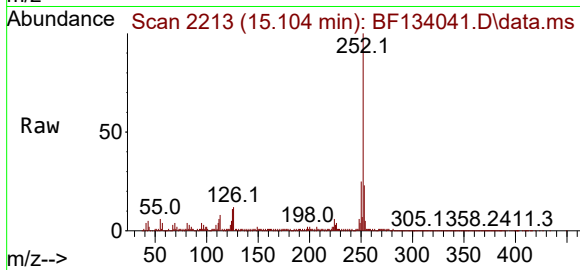
Tgt Ion:252 Resp: 469633

Ion Ratio Lower Upper

252 100

253 23.4 16.9 25.3

125 10.5 7.4 11.2



#90

Benzo(a)pyrene

Concen: 28.089 ng

RT: 15.486 min Scan# 2278

Delta R.T. 0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

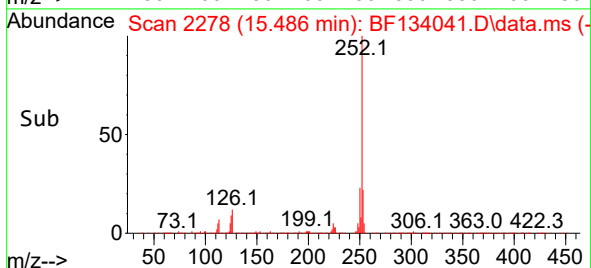
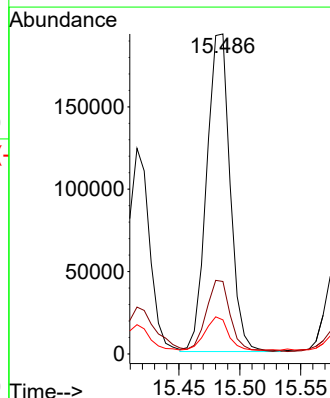
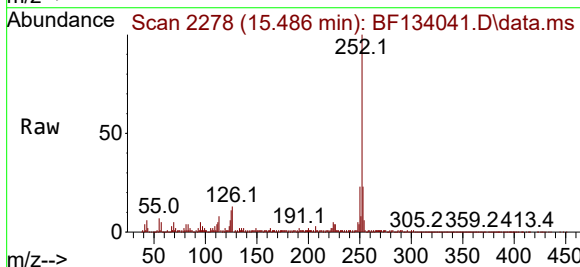
Tgt Ion:252 Resp: 258606

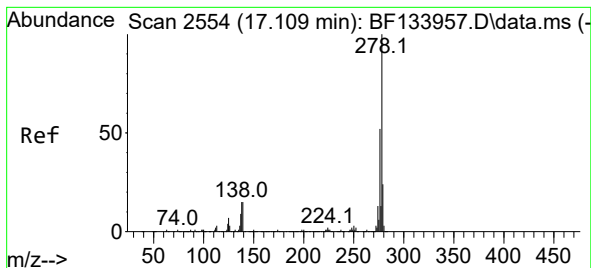
Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 10.7 8.4 12.6





#91

Dibenzo(a,h)anthracene

Concen: 2.906 ng

RT: 17.286 min Scan# 21

Delta R.T. 0.177 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Instrument :

BNA_F

ClientSampleId :

ORA-1651RE

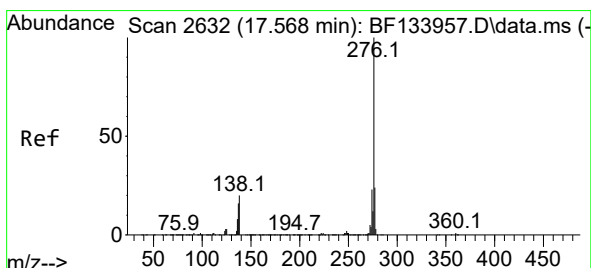
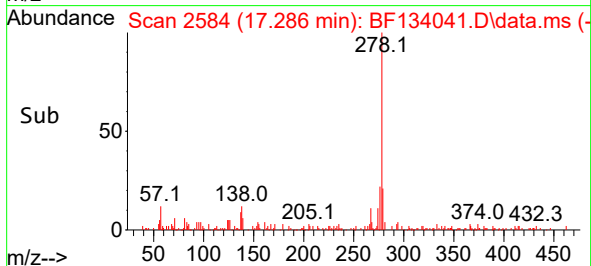
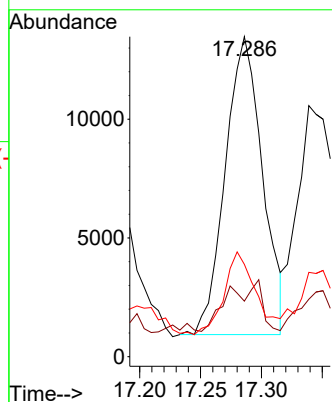
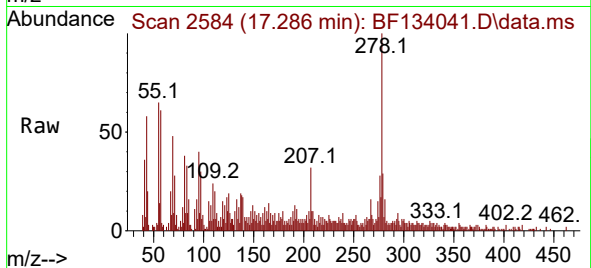
Tgt Ion:278 Resp: 26669

Ion Ratio Lower Upper

278 100

139 17.3 12.2 18.4

279 28.8 19.4 29.2



#92

Benzo(g,h,i)perylene

Concen: 12.481 ng

RT: 17.562 min Scan# 2631

Delta R.T. -0.006 min

Lab File: BF134041.D

Acq: 29 Jun 2023 17:29

Tgt Ion:276 Resp: 118112

Ion Ratio Lower Upper

276 100

277 27.8 19.0 28.6

138 20.1 16.2 24.2

