

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051623\
 Data File : BF133404.D
 Acq On : 16 May 2023 16:07
 Operator : CG\JU
 Sample : 02802-01 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1639

Quant Time: May 16 16:53:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 16 14:39:29 2023
 Response via : Initial Calibration

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

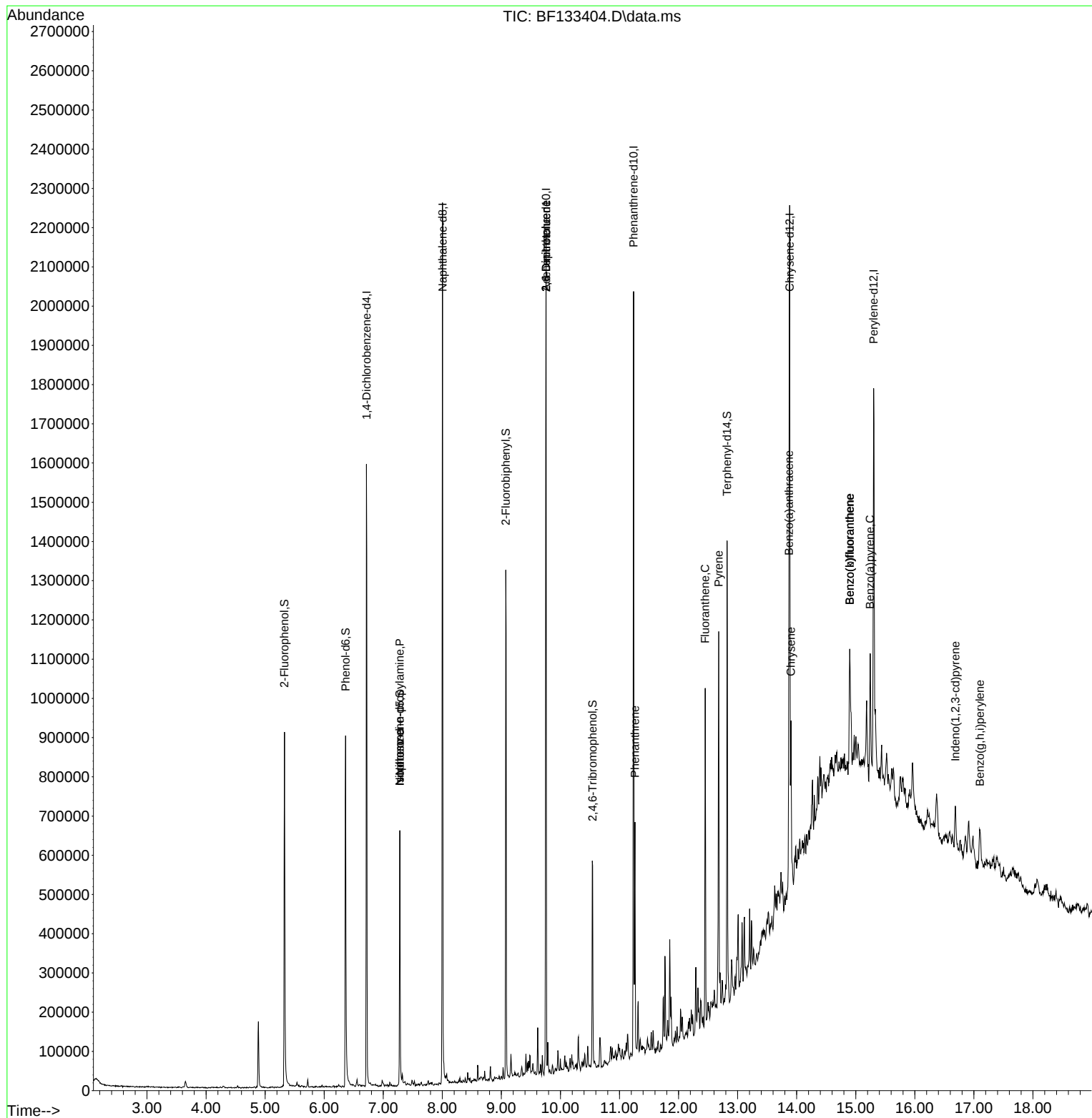
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.716	152	232988	20.000	ng	0.00
21) Naphthalene-d8	8.004	136	899856	20.000	ng	0.00
39) Acenaphthene-d10	9.757	164	407502	20.000	ng	0.00
64) Phenanthrene-d10	11.239	188	645501	20.000	ng	0.00
76) Chrysene-d12	13.880	240	520869	20.000	ng	0.00
86) Perylene-d12	15.304	264	436706	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.328	112	272778	17.686	ng	0.00
7) Phenol-d6	6.363	99	335306	17.515	ng	0.00
23) Nitrobenzene-d5	7.281	82	192199	11.529	ng	-0.01
42) 2,4,6-Tribromophenol	10.545	330	63906	15.594	ng	0.00
45) 2-Fluorobiphenyl	9.075	172	390036	16.013	ng	-0.01
79) Terphenyl-d14	12.821	244	372069	12.320	ng	-0.01
Target Compounds						
					Qvalue	
9) Benzaldehyde	6.281	77	363	Below Cal	#	62
19) n-Nitroso-di-n-propyla...	7.281	70	25412	2.132	ng	# 79
25) Isophorone	7.281	82	190256	6.011	ng	# 63
51) 2,6-Dinitrotoluene	9.757	165	53298	8.334	ng	# 25
57) 2,4-Dinitrotoluene	9.757	165	53298	6.535	ng	# 24
71) Phenanthrene	11.263	178	190964	5.504	ng	99
75) Fluoranthene	12.451	202	301096	8.647	ng	97
78) Pyrene	12.680	202	360905	8.083	ng	100
81) Benzo(a)anthracene	13.868	228	159891	4.464	ng	93
83) Chrysene	13.904	228	159358	4.450	ng	98
87) Indeno(1,2,3-cd)pyrene	16.686	276	67330	2.710	ng	96
88) Benzo(b)fluoranthene	14.898	252	215161	7.744	ng	# 89
89) Benzo(k)fluoranthene	14.898	252	215161	7.812	ng	# 89
90) Benzo(a)pyrene	15.245	252	127358	5.036	ng	# 95
92) Benzo(g,h,i)perylene	17.104	276	73275	3.582	ng	95

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

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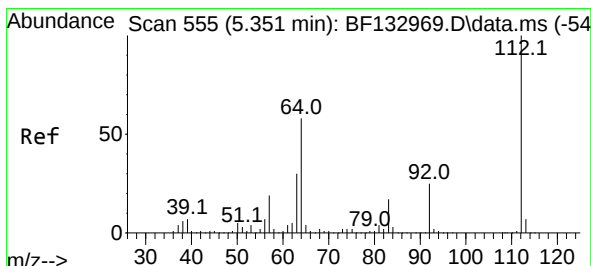
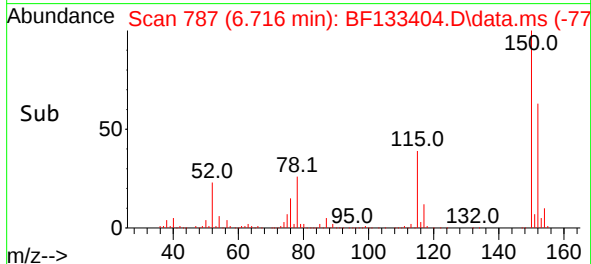
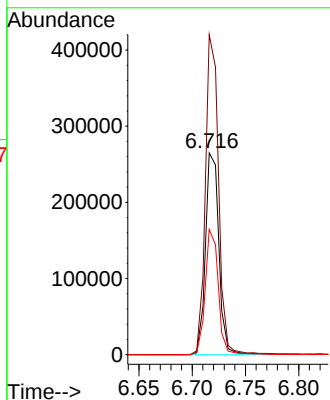
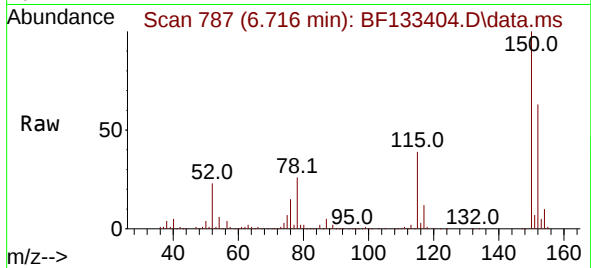




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.716 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

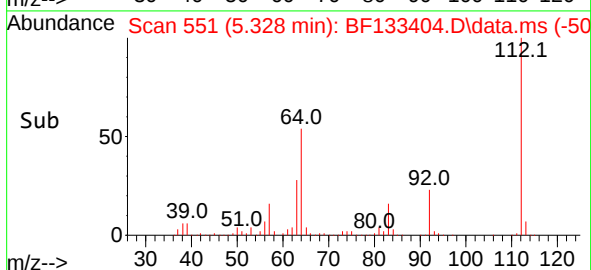
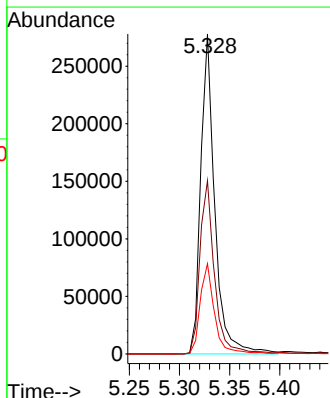
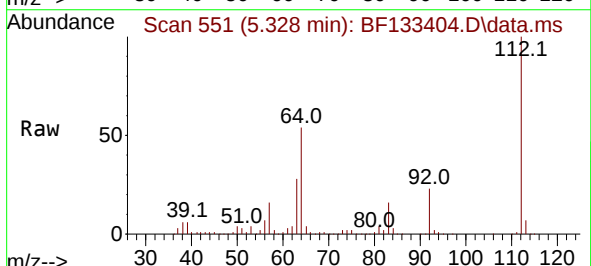
Instrument :
BNA_F
ClientSampleId :
ORA-1639

Tgt Ion:152 Resp: 232988
Ion Ratio Lower Upper
152 100
150 158.6 124.8 187.2
115 62.1 49.9 74.9



#5
2-Fluorophenol
Concen: 17.686 ng
RT: 5.328 min Scan# 551
Delta R.T. -0.006 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

Tgt Ion:112 Resp: 272778
Ion Ratio Lower Upper
112 100
64 54.1 46.8 70.2
63 28.2 23.8 35.8

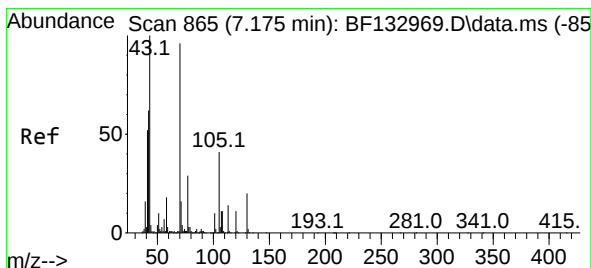
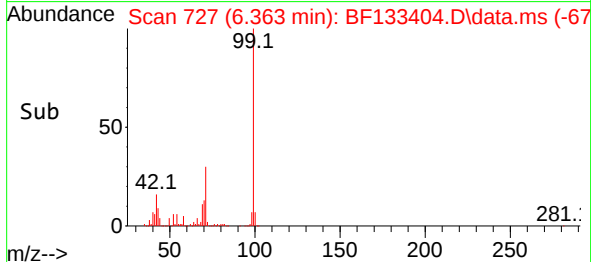
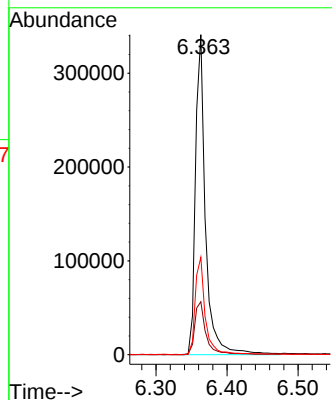
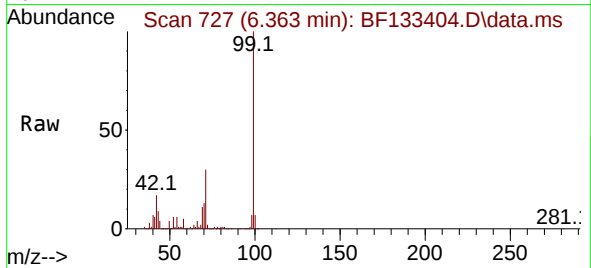




#7
Phenol-d6
Concen: 17.515 ng
RT: 6.363 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

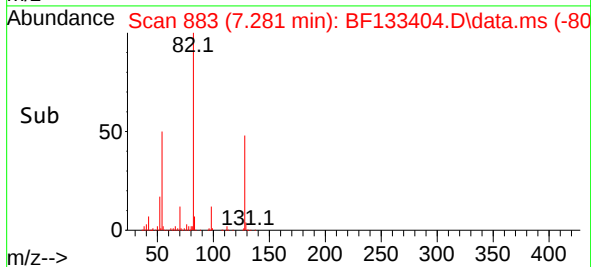
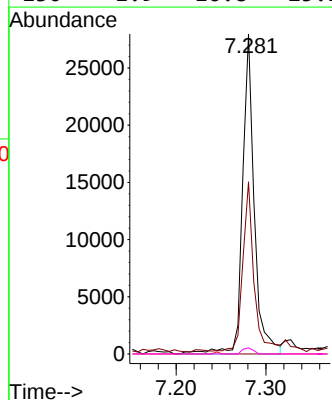
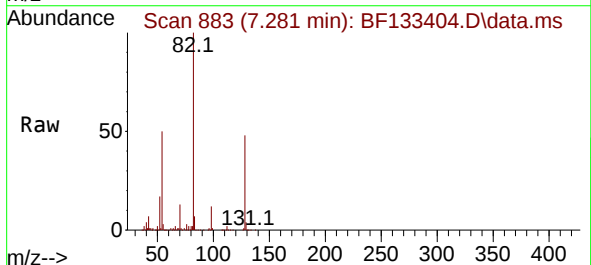
Instrument :
BNA_F
ClientSampleId :
ORA-1639

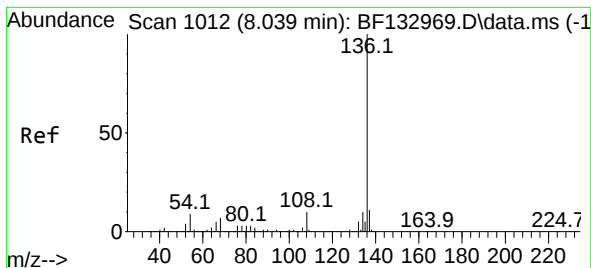
Tgt Ion: 99 Resp: 335306
Ion Ratio Lower Upper
99 100
42 16.5 16.3 24.5
71 30.5 25.6 38.4



#19
n-Nitroso-di-n-propylamine
Concen: 2.132 ng
RT: 7.281 min Scan# 883
Delta R.T. 0.135 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

Tgt Ion: 70 Resp: 25412
Ion Ratio Lower Upper
70 100
42 53.8 51.8 77.6
101 0.0 8.0 12.0#
130 1.9 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.004 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

Tgt Ion:136 Resp: 899856

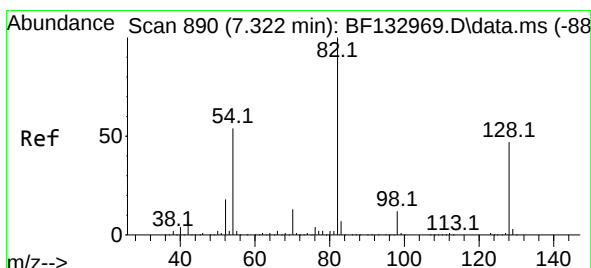
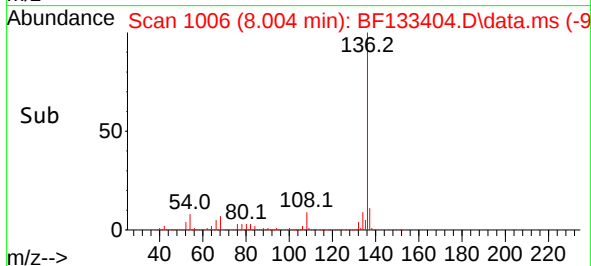
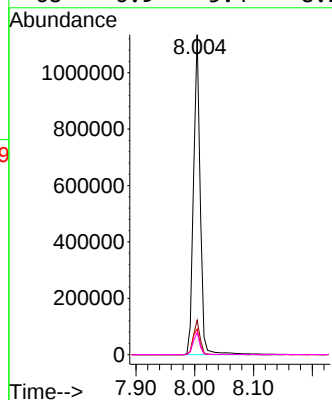
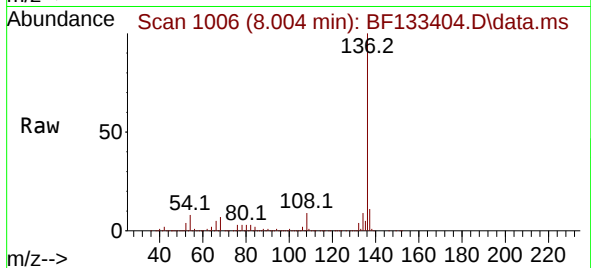
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 8.0 7.0 10.4

68 6.9 5.4 8.2



#23

Nitrobenzene-d5

Concen: 11.529 ng

RT: 7.281 min Scan# 883

Delta R.T. -0.012 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

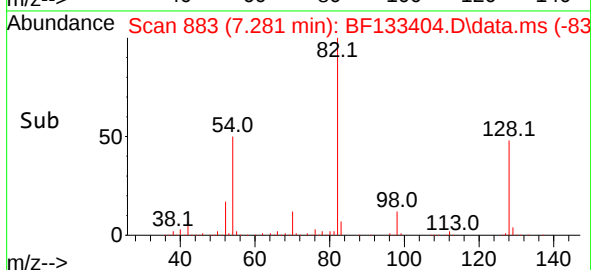
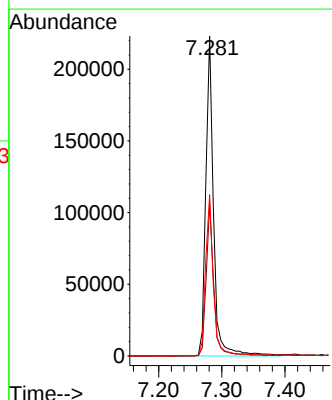
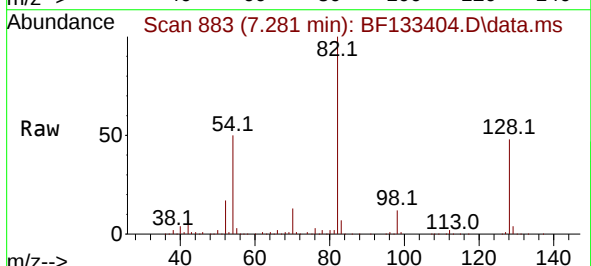
Tgt Ion: 82 Resp: 192199

Ion Ratio Lower Upper

82 100

128 47.6 37.7 56.5

54 50.4 43.0 64.4

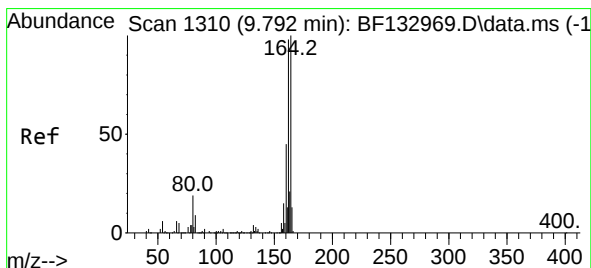
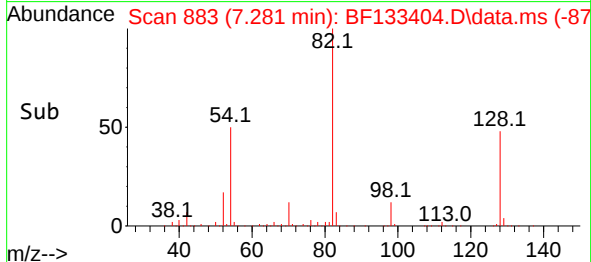
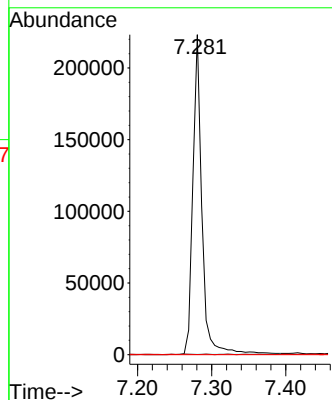
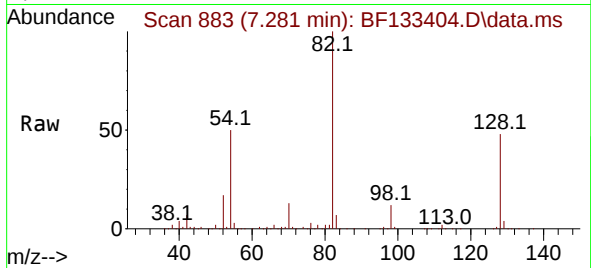




#25
Isophorone
Concen: 6.011 ng
RT: 7.281 min Scan# 81
Delta R.T. -0.271 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

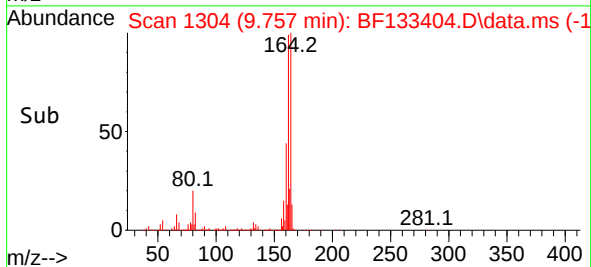
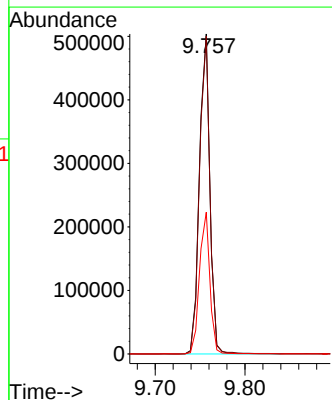
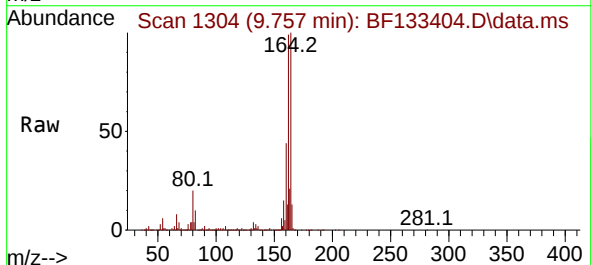
Instrument :
BNA_F
ClientSampleId :
ORA-1639

Tgt Ion: 82 Resp: 190256
Ion Ratio Lower Upper
82 100
95 0.1 5.4 8.0#
138 0.0 16.0 24.0#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

Tgt Ion:164 Resp: 407502
Ion Ratio Lower Upper
164 100
162 99.3 78.7 118.1
160 44.3 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 15.594 ng

RT: 10.545 min Scan# 1444

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

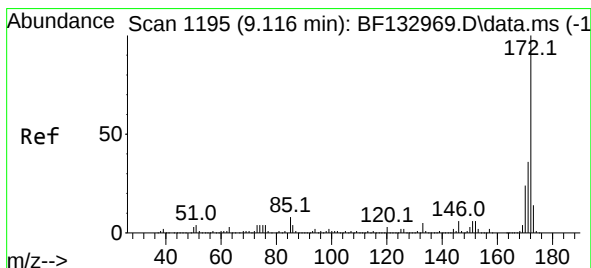
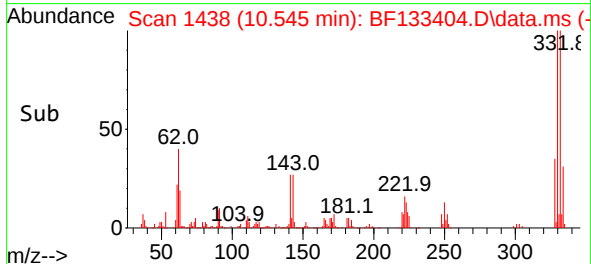
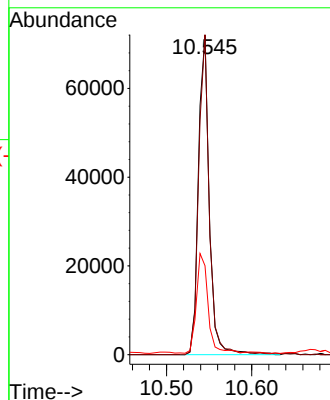
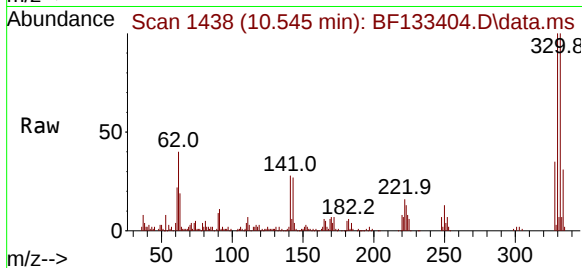
Tgt Ion:330 Resp: 63906

Ion Ratio Lower Upper

330 100

332 97.7 77.1 115.7

141 33.2 25.8 38.8



#45

2-Fluorobiphenyl

Concen: 16.013 ng

RT: 9.075 min Scan# 1188

Delta R.T. -0.012 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

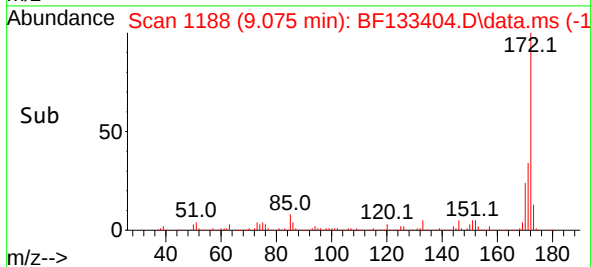
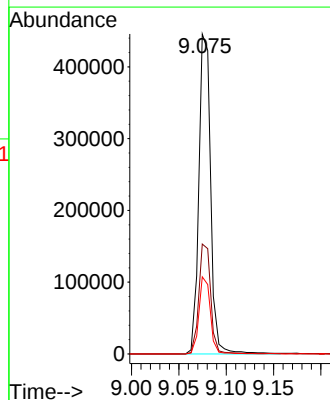
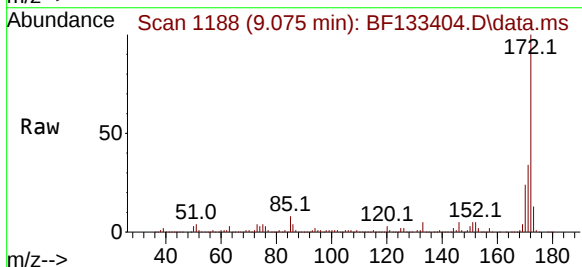
Tgt Ion:172 Resp: 390036

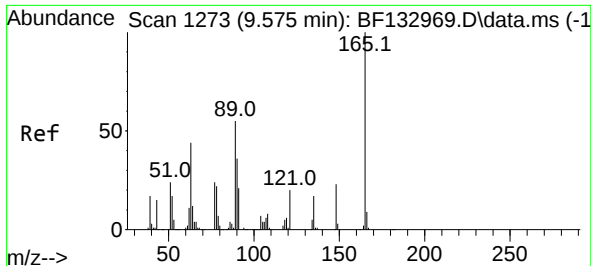
Ion Ratio Lower Upper

172 100

171 34.4 28.8 43.2

170 24.1 19.4 29.2

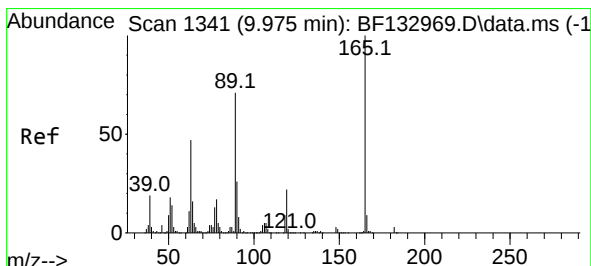
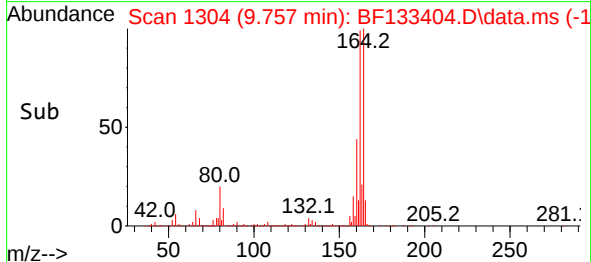
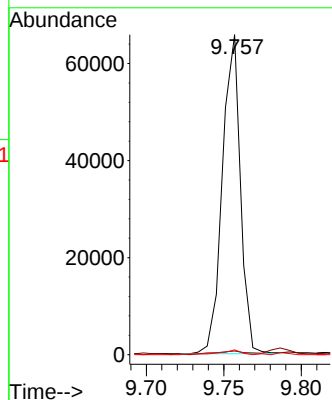
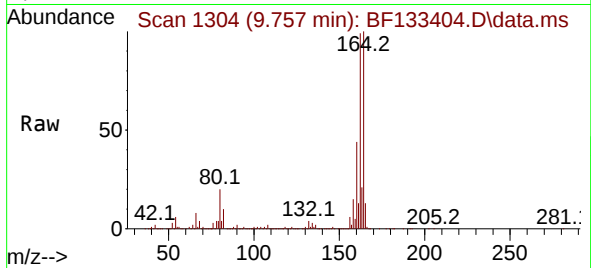




#51
2,6-Dinitrotoluene
Concen: 8.334 ng
RT: 9.757 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

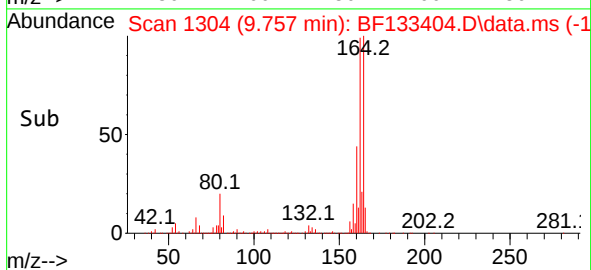
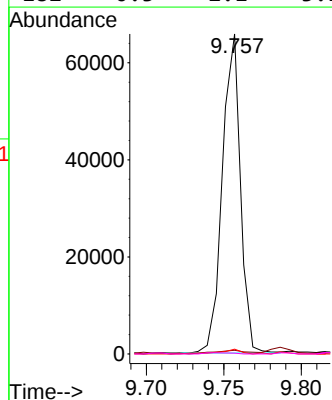
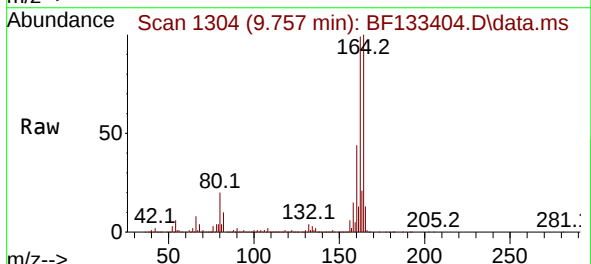
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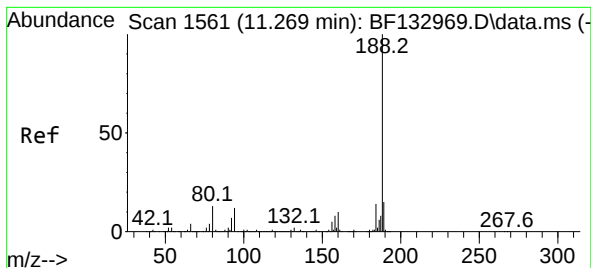
Tgt Ion:165 Resp: 53298
Ion Ratio Lower Upper
165 100
63 1.2 45.9 68.9#
89 1.5 44.0 66.0#



#57
2,4-Dinitrotoluene
Concen: 6.535 ng
RT: 9.757 min Scan# 1304
Delta R.T. -0.200 min
Lab File: BF133404.D
Acq: 16 May 2023 16:07

Tgt Ion:165 Resp: 53298
Ion Ratio Lower Upper
165 100
63 1.2 37.7 56.5#
89 1.5 57.0 85.4#
182 0.3 2.1 3.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.239 min Scan# 1556

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

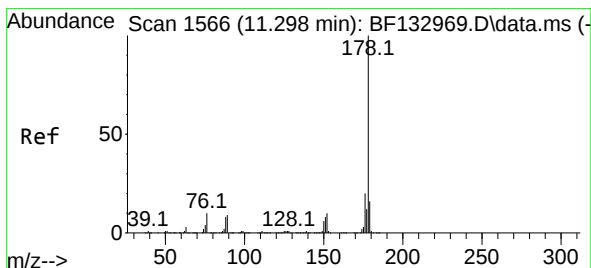
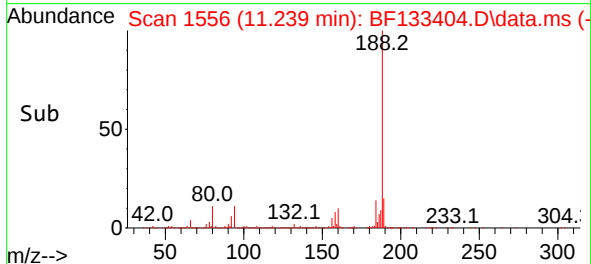
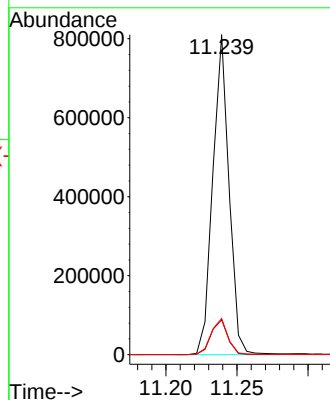
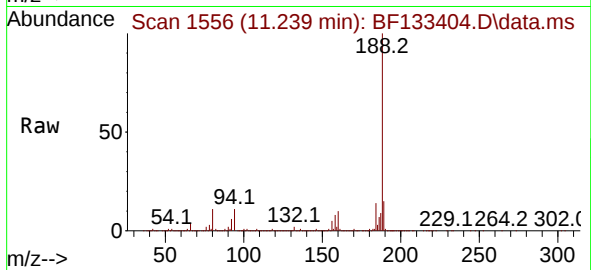
Tgt Ion:188 Resp: 645501

Ion Ratio Lower Upper

188 100

94 10.9 9.7 14.5

80 11.3 10.4 15.6



#71

Phenanthrene

Concen: 5.504 ng

RT: 11.263 min Scan# 1560

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

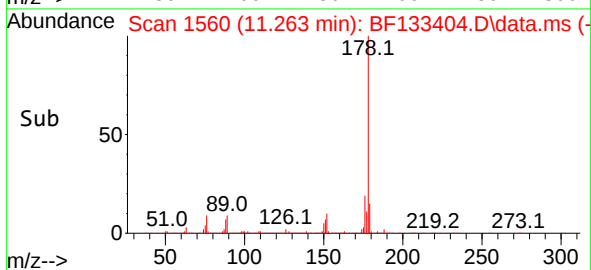
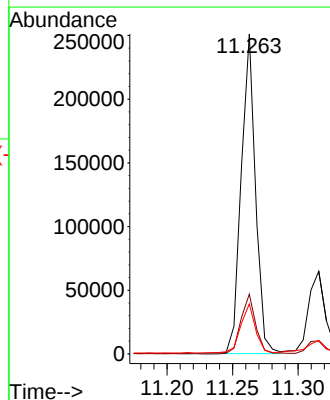
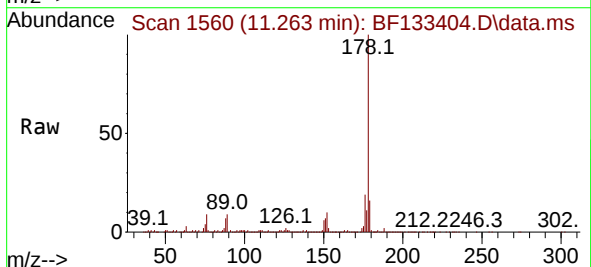
Tgt Ion:178 Resp: 190964

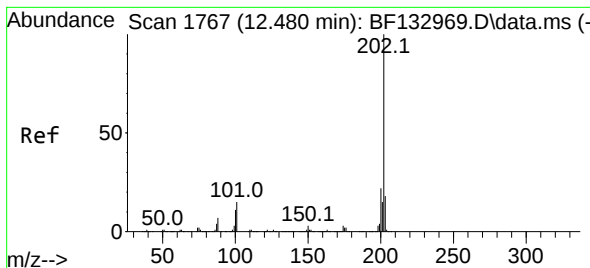
Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

179 15.6 12.5 18.7





#75

Fluoranthene

Concen: 8.647 ng

RT: 12.451 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

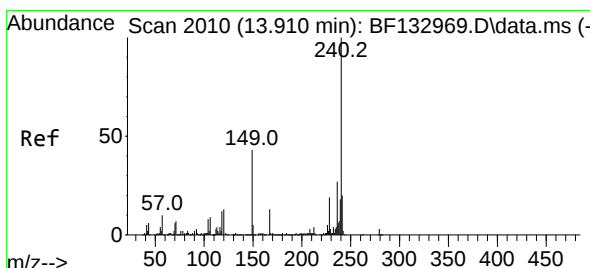
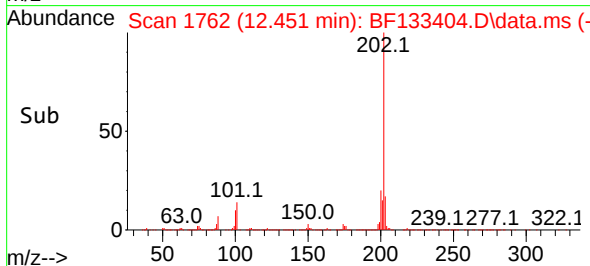
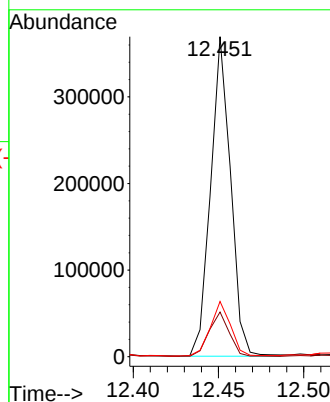
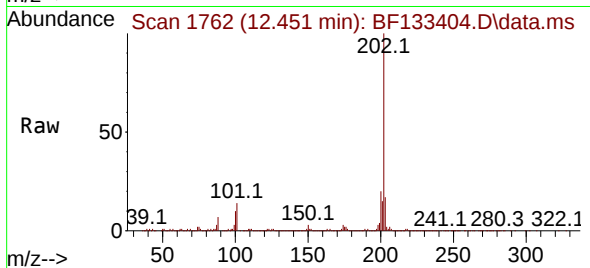
Tgt Ion:202 Resp: 301096

Ion Ratio Lower Upper

202 100

101 13.9 0.0 35.3

203 17.2 0.0 38.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.880 min Scan# 2005

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

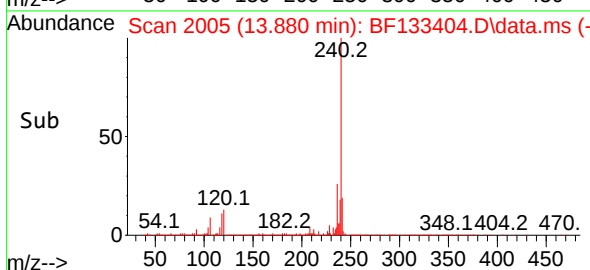
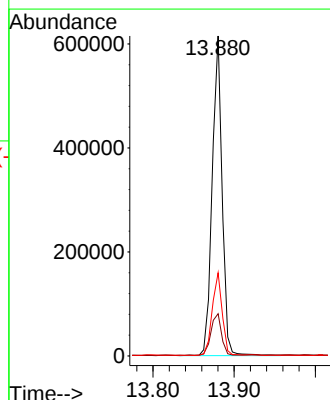
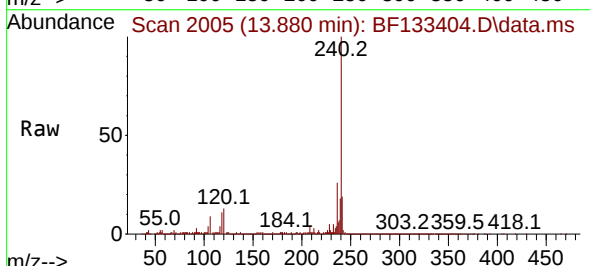
Tgt Ion:240 Resp: 520869

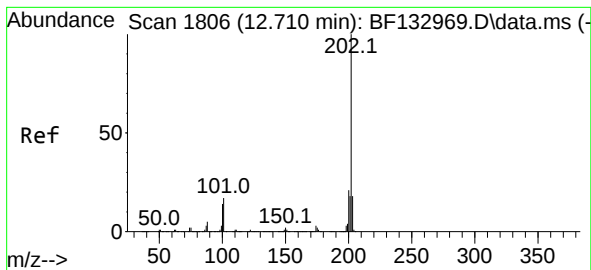
Ion Ratio Lower Upper

240 100

120 13.2 10.5 15.7

236 26.0 21.5 32.3





#78

Pyrene

Concen: 8.083 ng

RT: 12.680 min Scan# 1801

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

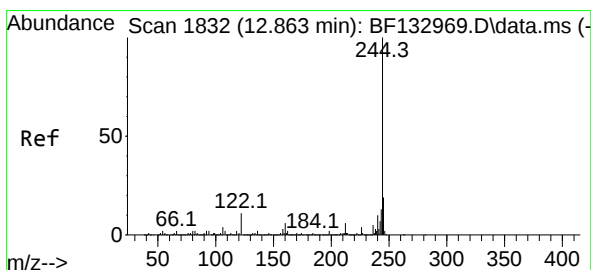
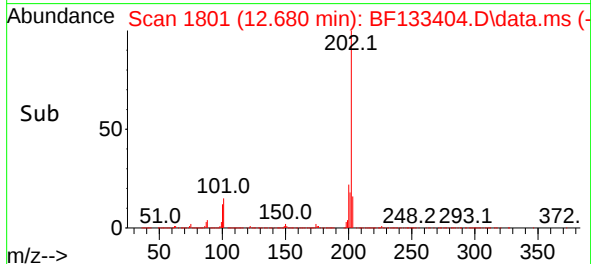
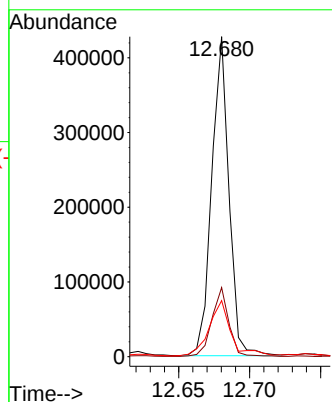
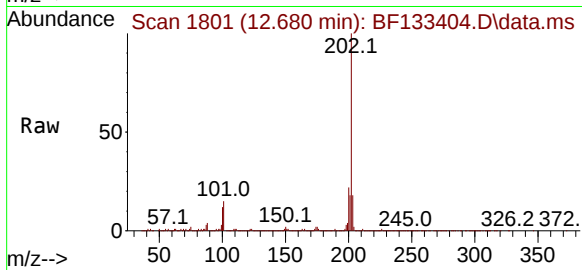
Tgt Ion:202 Resp: 360905

Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

203 17.5 14.1 21.1



#79

Terphenyl-d14

Concen: 12.320 ng

RT: 12.821 min Scan# 1825

Delta R.T. -0.012 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

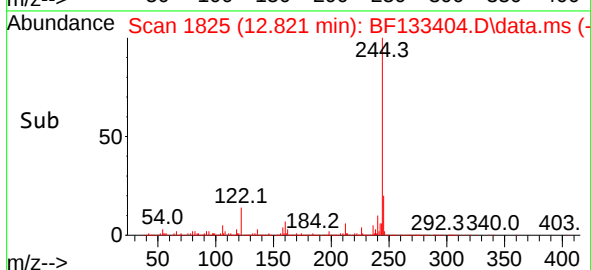
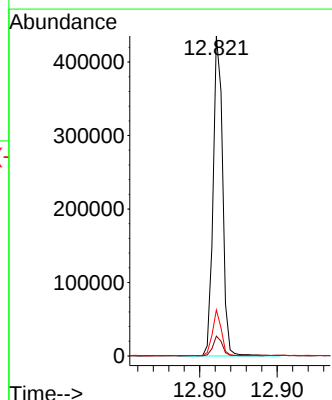
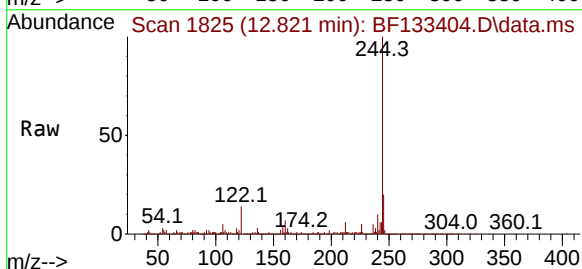
Tgt Ion:244 Resp: 372069

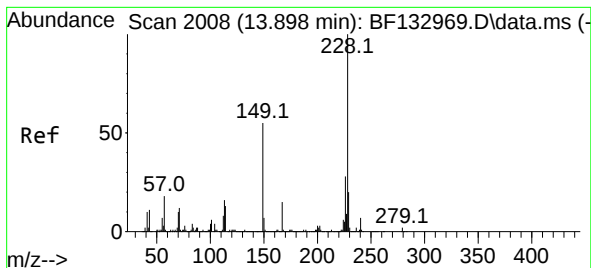
Ion Ratio Lower Upper

244 100

212 6.2 5.1 7.7

122 14.4 8.6 13.0#





#81

Benzo(a)anthracene

Concen: 4.464 ng

RT: 13.868 min Scan# 2009

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

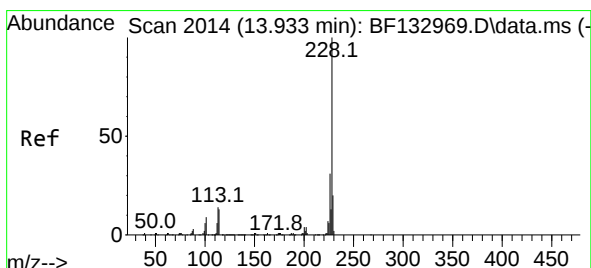
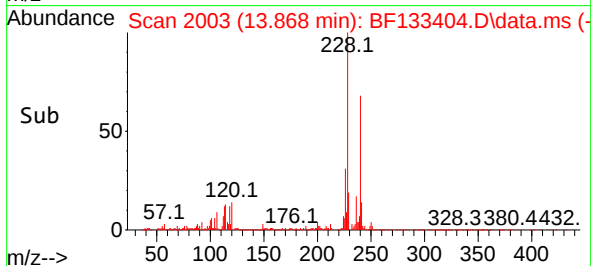
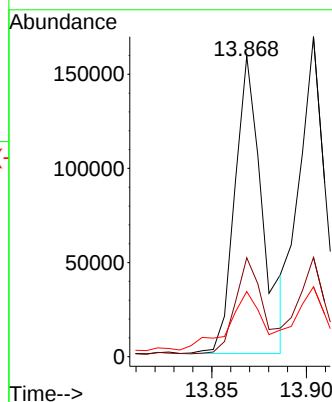
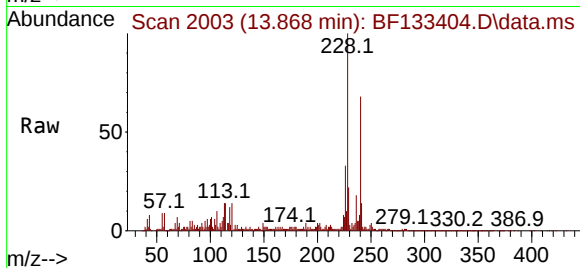
Tgt Ion:228 Resp: 159891

Ion Ratio Lower Upper

228 100

226 32.9 22.2 33.4

229 21.7 16.0 24.0



#83

Chrysene

Concen: 4.450 ng

RT: 13.904 min Scan# 2009

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

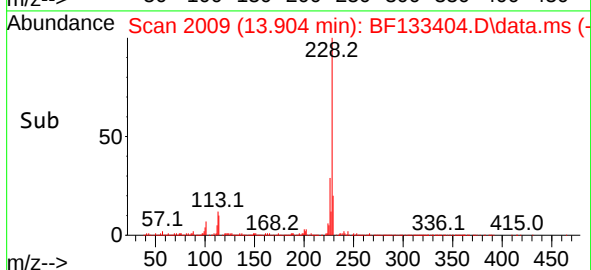
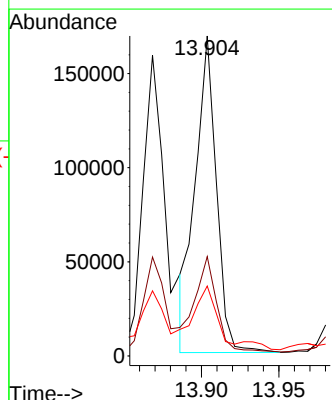
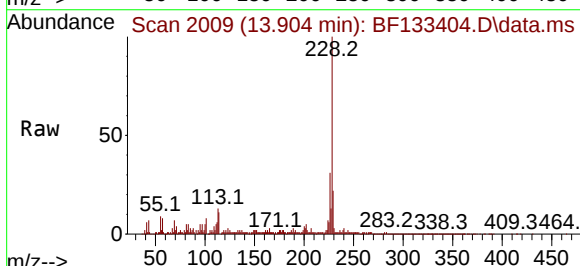
Tgt Ion:228 Resp: 159358

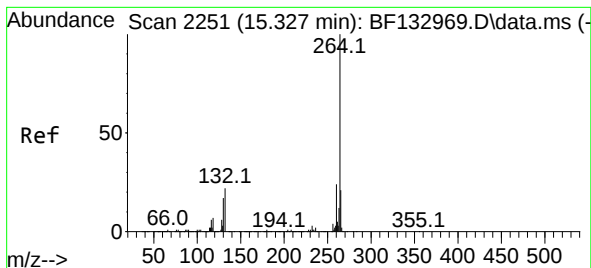
Ion Ratio Lower Upper

228 100

226 31.1 24.7 37.1

229 21.9 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNF_F

ClientSampleId :

ORA-1639

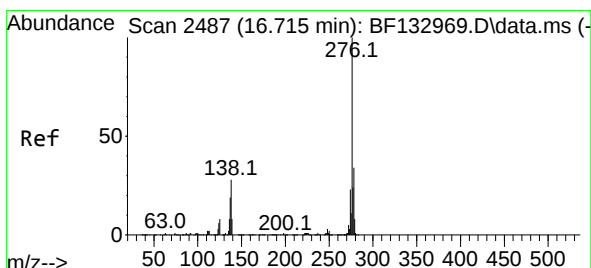
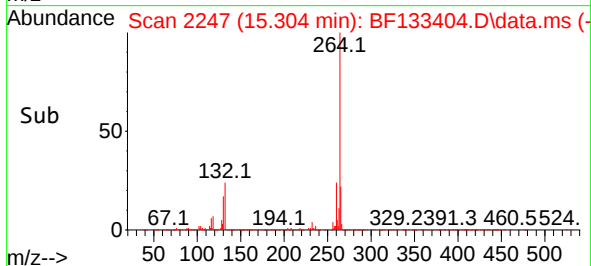
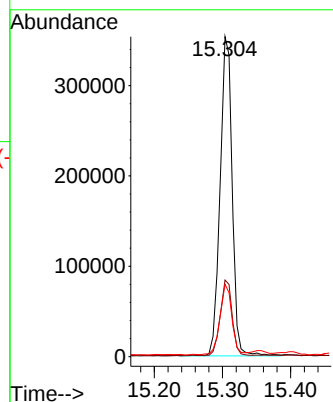
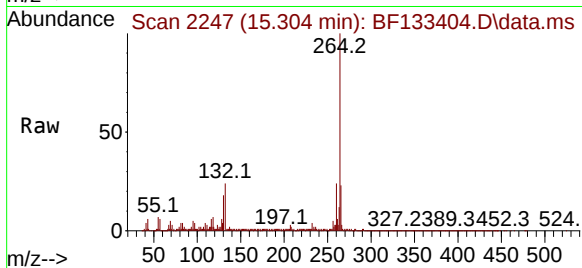
Tgt Ion:264 Resp: 436706

Ion Ratio Lower Upper

264 100

260 23.9 18.8 28.2

265 22.6 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.710 ng

RT: 16.686 min Scan# 2482

Delta R.T. -0.012 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

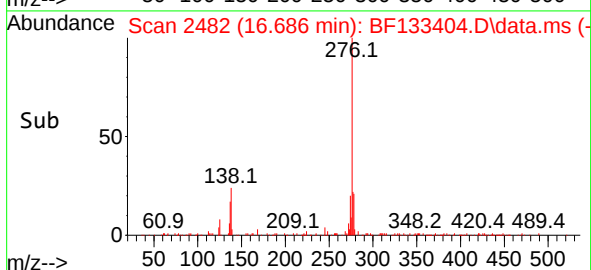
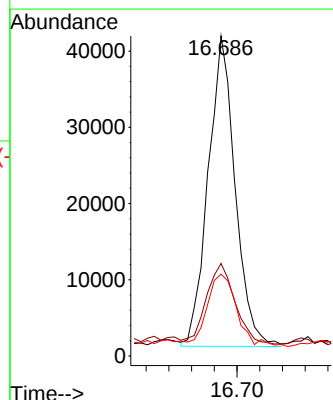
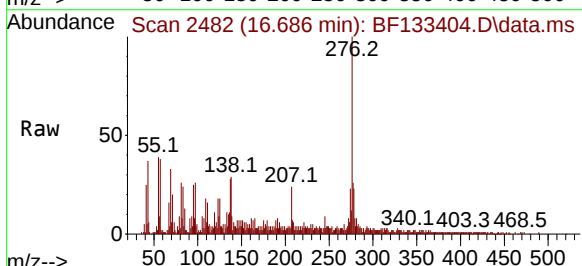
Tgt Ion:276 Resp: 67330

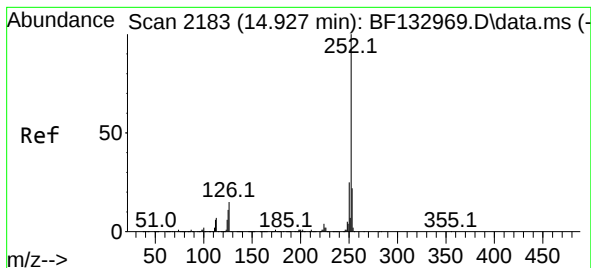
Ion Ratio Lower Upper

276 100

138 27.6 25.5 38.3

277 25.5 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 7.744 ng

RT: 14.898 min Scan# 2183

Delta R.T. -0.000 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

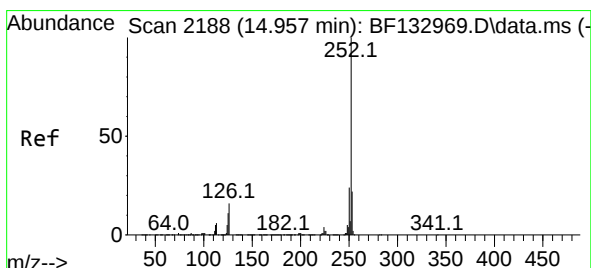
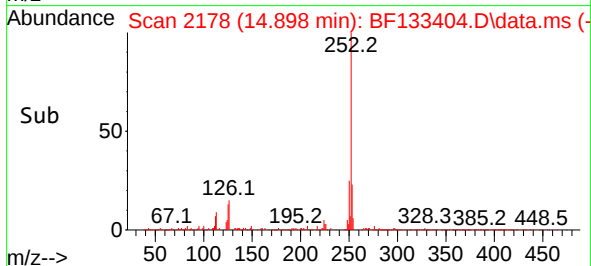
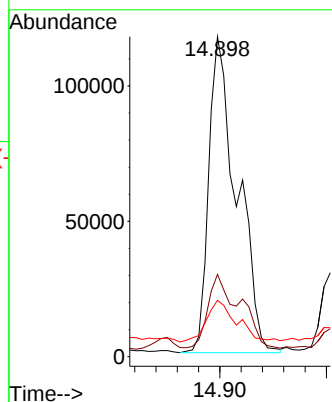
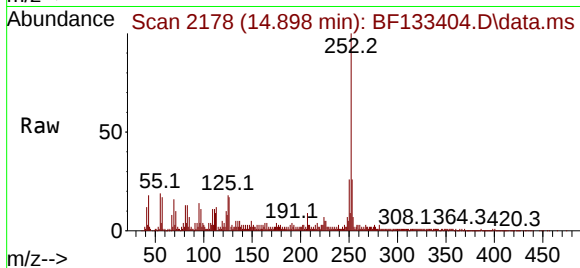
Tgt Ion:252 Resp: 215161

Ion Ratio Lower Upper

252 100

253 25.7 17.6 26.4

125 17.6 8.9 13.3#



#89

Benzo(k)fluoranthene

Concen: 7.812 ng

RT: 14.898 min Scan# 2178

Delta R.T. -0.029 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

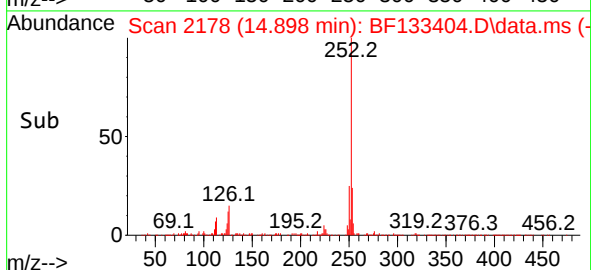
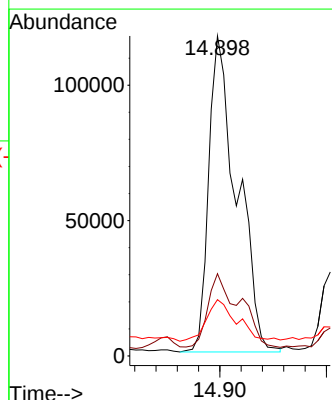
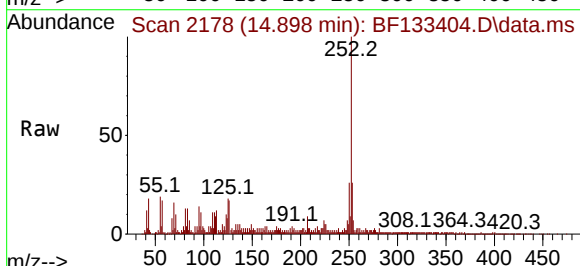
Tgt Ion:252 Resp: 215161

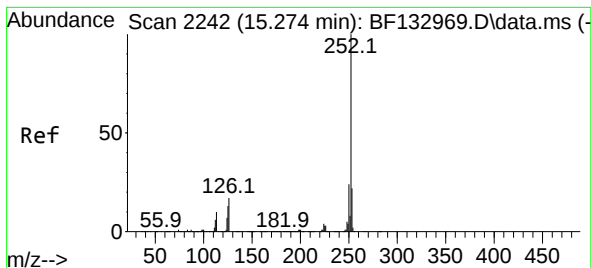
Ion Ratio Lower Upper

252 100

253 25.7 17.7 26.5

125 17.6 9.0 13.4#





#90

Benzo(a)pyrene

Concen: 5.036 ng

RT: 15.245 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Instrument :

BNA_F

ClientSampleId :

ORA-1639

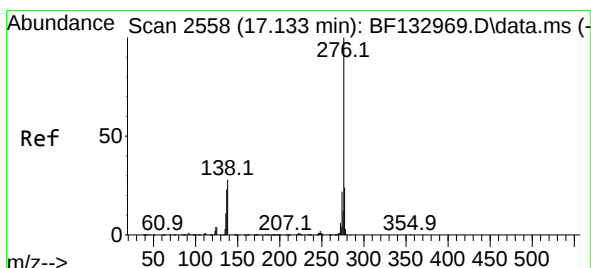
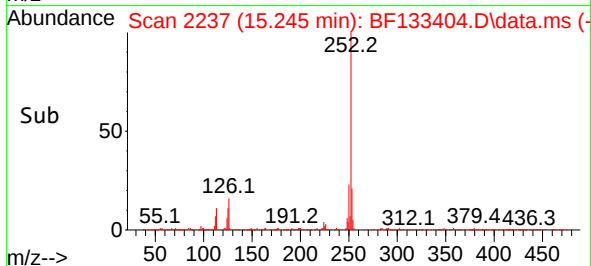
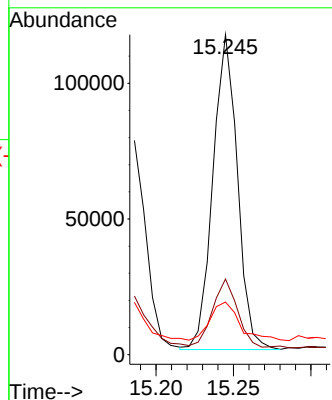
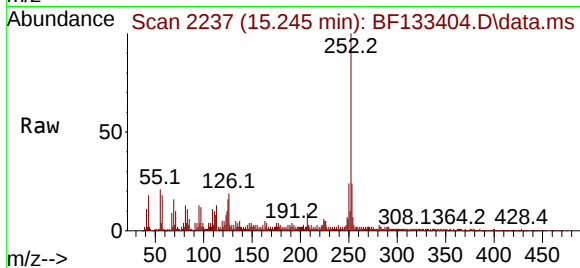
Tgt Ion:252 Resp: 127358

Ion Ratio Lower Upper

252 100

253 23.6 17.7 26.5

125 16.4 10.5 15.7#



#92

Benzo(g,h,i)perylene

Concen: 3.582 ng

RT: 17.104 min Scan# 2553

Delta R.T. -0.006 min

Lab File: BF133404.D

Acq: 16 May 2023 16:07

Tgt Ion:276 Resp: 73275

Ion Ratio Lower Upper

276 100

277 26.7 19.4 29.0

138 31.3 22.7 34.1

