

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
 Data File : BF140161.D
 Acq On : 30 Oct 2024 16:53
 Operator : RC/JU
 Sample : P4618-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-102924

Quant Time: Nov 01 02:17:01 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 15:07:50 2024
 Response via : Initial Calibration

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

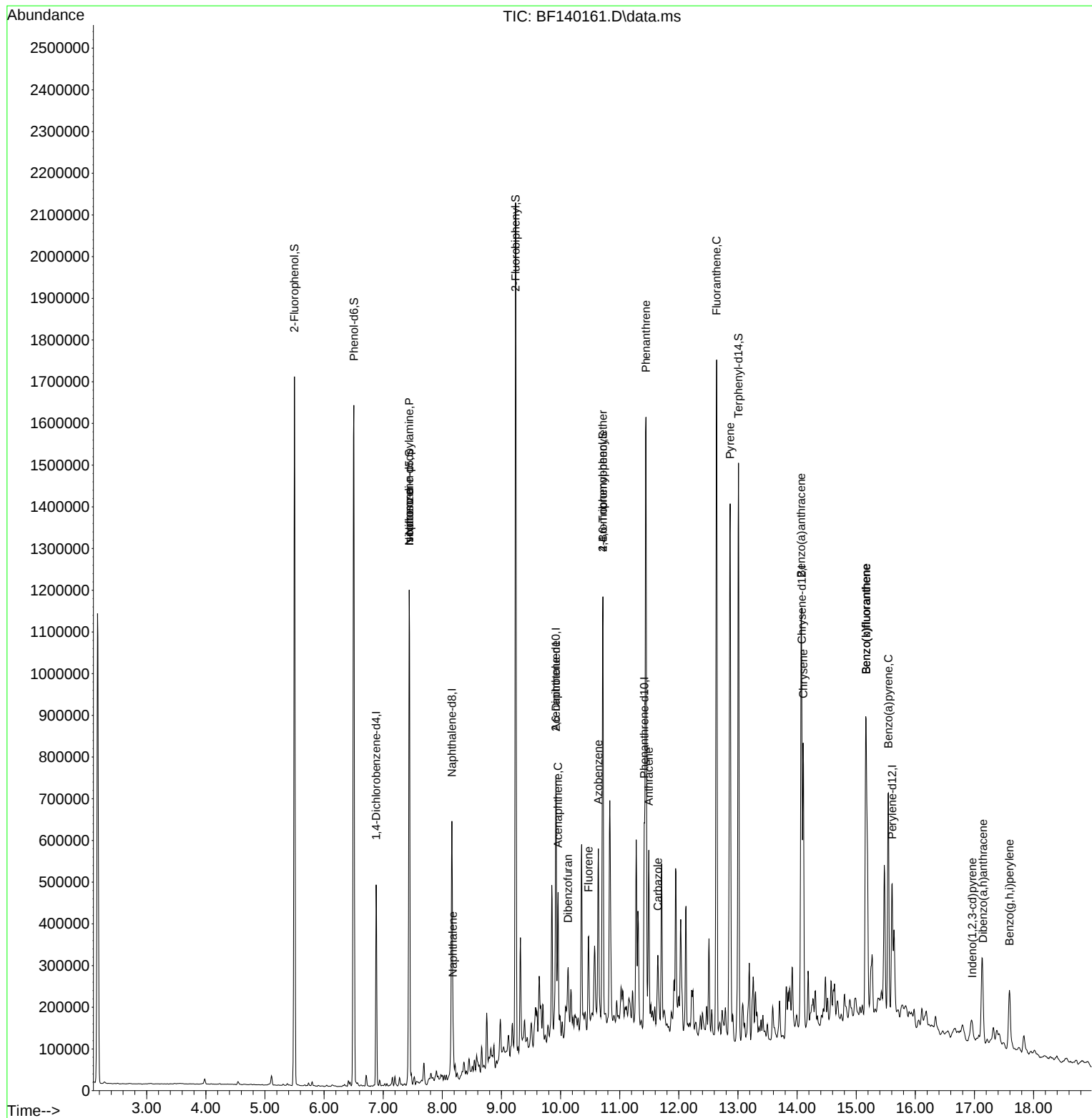
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	92901	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	350247	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	175684	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	253898	20.000	ng	0.00
76) Chrysene-d12	14.080	240	166231	20.000	ng	0.03
86) Perylene-d12	15.610	264	196795	20.000	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	594586	100.195	ng	0.00
7) Phenol-d6	6.504	99	762604	99.221	ng	0.00
23) Nitrobenzene-d5	7.439	82	516518	81.735	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	159492	97.056	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	876898	82.492	ng	-0.01
79) Terphenyl-d14	13.010	244	661121	64.806	ng	0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.439	70	73209	15.705	ng	# 79
25) Isophorone	7.439	82	512924	42.764	ng	# 67
31) Naphthalene	8.181	128	49584	2.745	ng	99
51) 2,6-Dinitrotoluene	9.922	165	26398	11.141	ng	# 23
52) Acenaphthene	9.957	154	94114	10.216	ng	98
55) Dibenzofuran	10.128	168	58964	4.461	ng	98
58) Fluorene	10.475	166	78184	7.766	ng	97
63) Azobenzene	10.639	77	98002	8.604	ng	# 1
67) 4-Bromophenyl-phenylether	10.716	248	10467	4.002	ng	# 1
71) Phenanthrene	11.445	178	773455	64.492	ng	99
72) Anthracene	11.492	178	218773	18.696	ng	99
73) Carbazole	11.645	167	86298	7.930	ng	99
75) Fluoranthene	12.639	202	929483	76.664	ng	99
78) Pyrene	12.868	202	750782	51.598	ng	99
81) Benzo(a)anthracene	14.068	228	453786	41.935	ng	98
83) Chrysene	14.104	228	368611	37.152	ng	98
87) Indeno(1,2,3-cd)pyrene	16.962	276	32275	2.549	ng	95
88) Benzo(b)fluoranthene	15.168	252	695272	57.998	ng	98
89) Benzo(k)fluoranthene	15.168	252	695272	67.250	ng	98
90) Benzo(a)pyrene	15.545	252	355775	36.068	ng	98
91) Dibenzo(a,h)anthracene	17.145	278	38121	3.609	ng	95
92) Benzo(g,h,i)perylene	17.592	276	142890	13.545	ng	98

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

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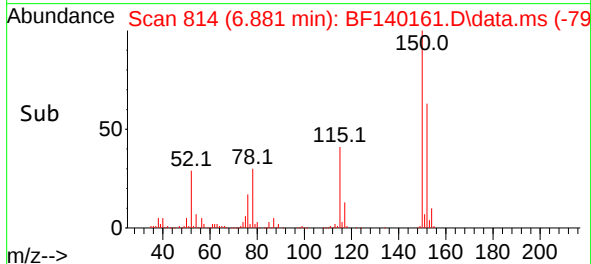
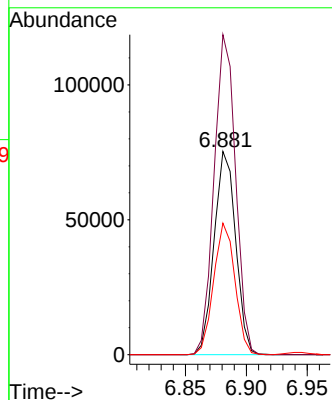
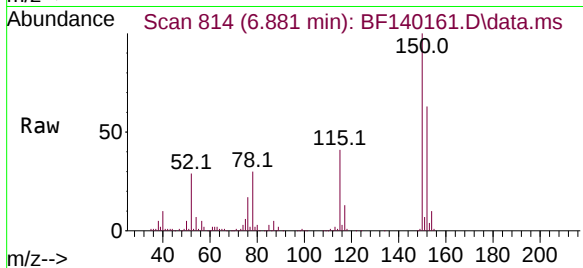




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 816
Delta R.T. -0.011 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

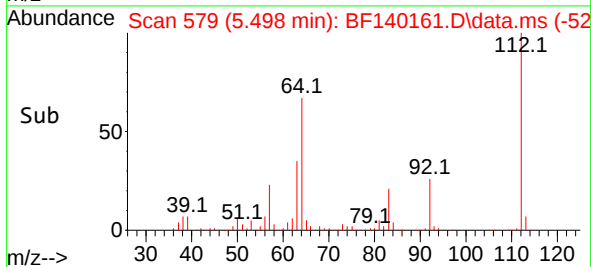
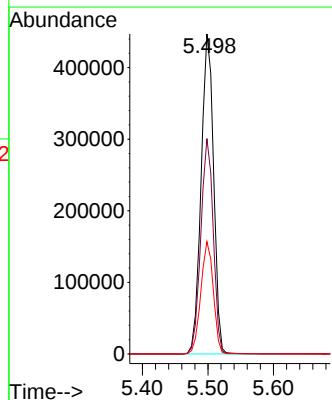
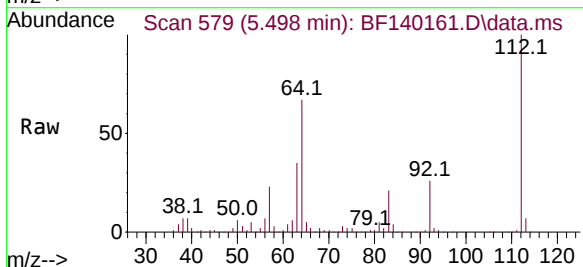
Instrument :
BNA_F
ClientSampleId :
HR-04-102924

Tgt Ion:152 Resp: 92901
Ion Ratio Lower Upper
152 100
150 157.5 130.2 195.2
115 64.8 51.4 77.2



#5
2-Fluorophenol
Concen: 100.195 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion:112 Resp: 594586
Ion Ratio Lower Upper
112 100
64 67.3 53.0 79.6
63 35.1 27.0 40.4

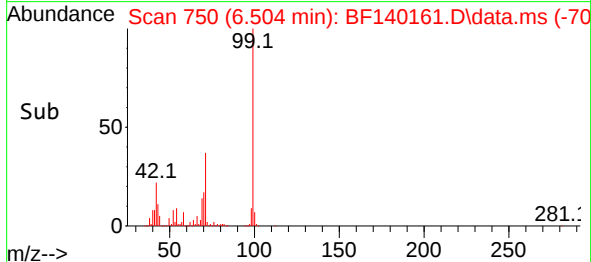
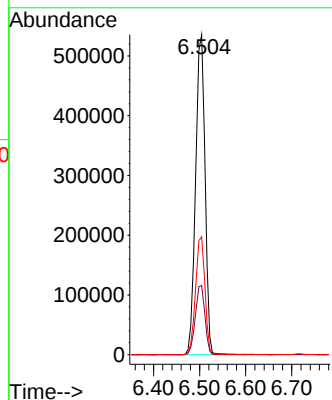
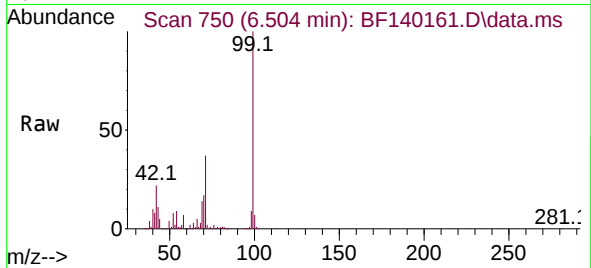




#7
Phenol-d6
Concen: 99.221 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

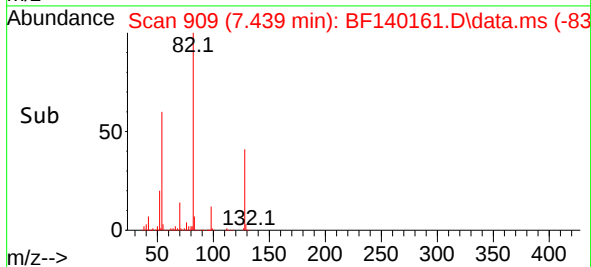
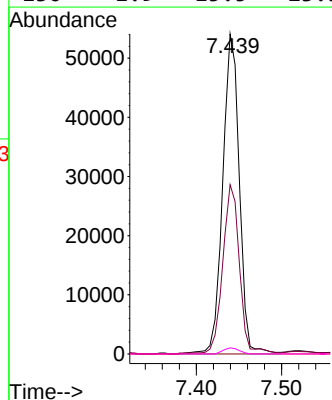
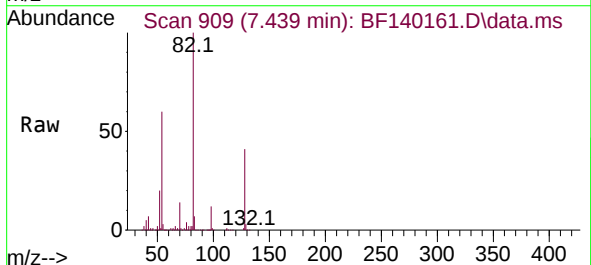
Instrument :
BNA_F
ClientSampleId :
HR-04-102924

Tgt Ion: 99 Resp: 762604
Ion Ratio Lower Upper
99 100
42 21.6 16.7 25.1
71 36.8 27.7 41.5



#19
n-Nitroso-di-n-propylamine
Concen: 15.705 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.135 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion: 70 Resp: 73209
Ion Ratio Lower Upper
70 100
42 52.9 51.5 77.3
101 0.0 7.5 11.3#
130 1.9 15.5 23.3#

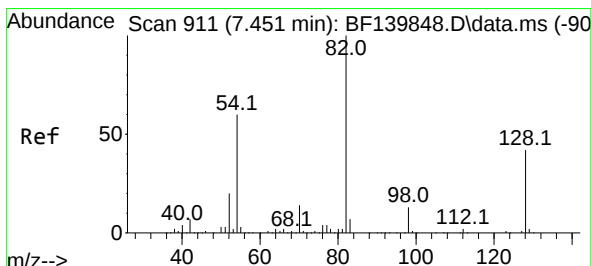
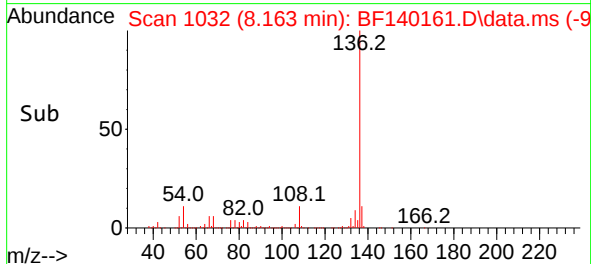
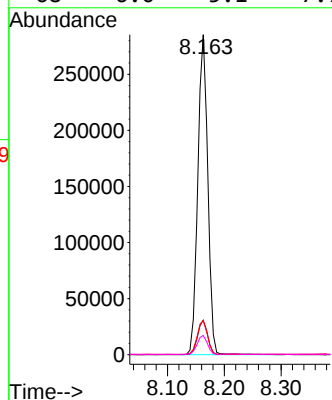
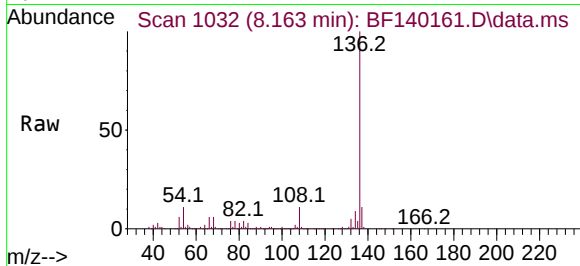




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

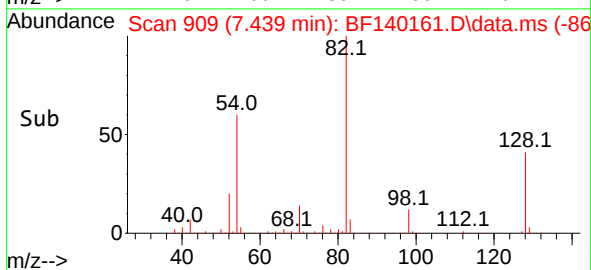
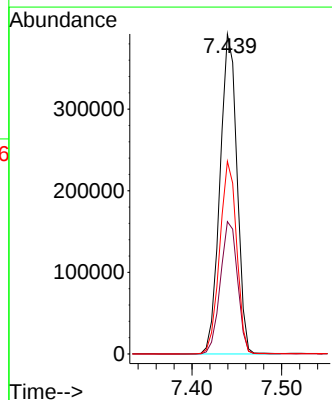
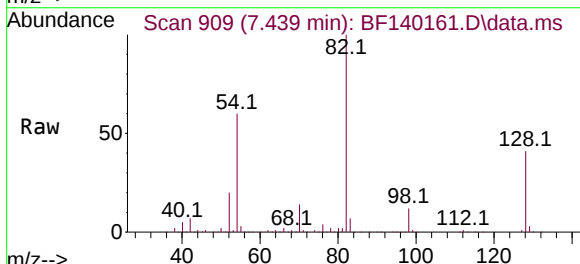
Instrument :
BNA_F
ClientSampleId :
HR-04-102924

Tgt Ion:136	Resp: 350247
Ion Ratio	Lower Upper
136 100	
137 10.8	8.6 12.8
54 10.7	8.4 12.6
68 6.0	5.1 7.7



#23
Nitrobenzene-d5
Concen: 81.735 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.012 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion: 82	Resp: 516518
Ion Ratio	Lower Upper
82 100	
128 41.4	33.4 50.0
54 60.2	47.8 71.8

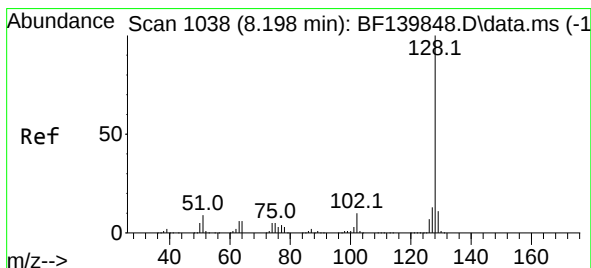
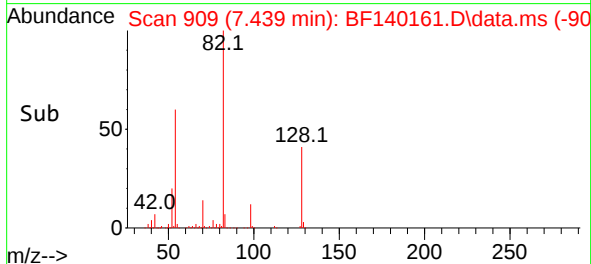
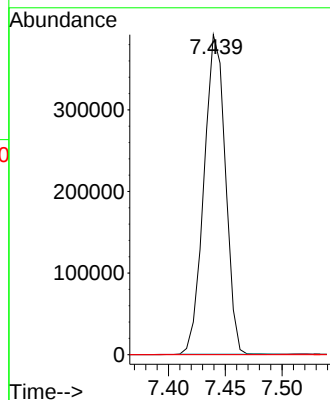
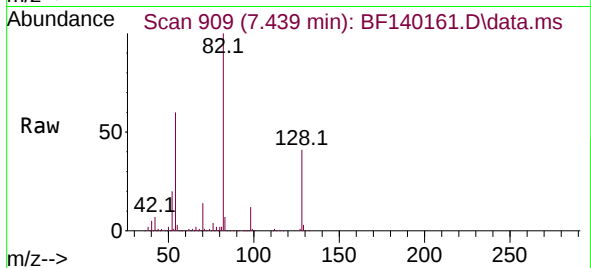




#25
Isophorone
Concen: 42.764 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.270 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

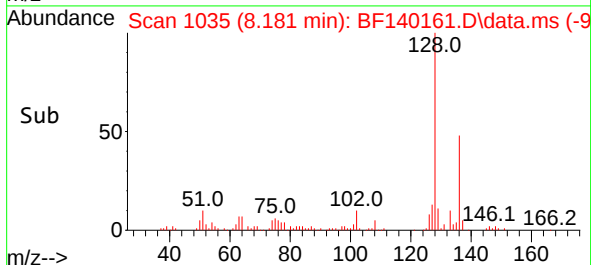
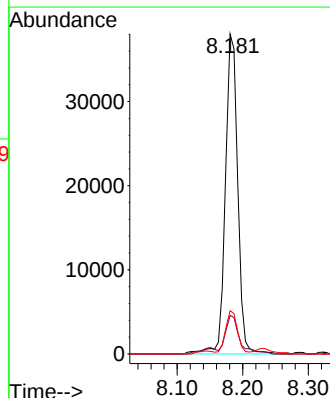
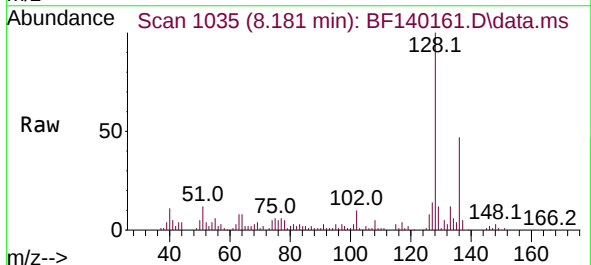
Instrument :
BNA_F
ClientSampleId :
HR-04-102924

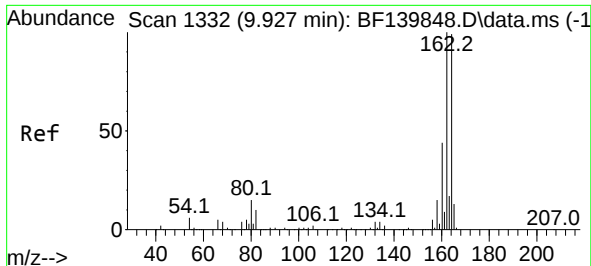
Tgt Ion: 82 Resp: 512924
Ion Ratio Lower Upper
82 100
95 0.1 5.5 8.3#
138 0.0 13.2 19.8#



#31
Naphthalene
Concen: 2.745 ng
RT: 8.181 min Scan# 1035
Delta R.T. -0.018 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion:128 Resp: 49584
Ion Ratio Lower Upper
128 100
129 12.0 8.9 13.3
127 13.5 10.6 16.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1

Delta R.T. -0.005 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

HR-04-102924

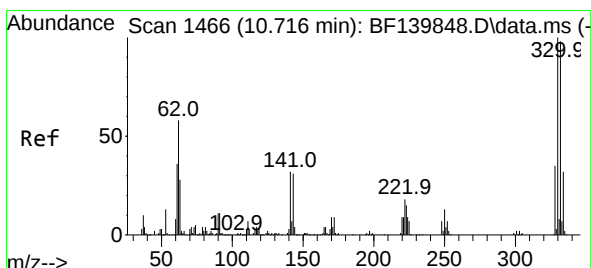
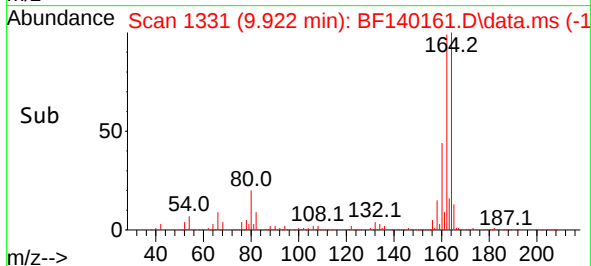
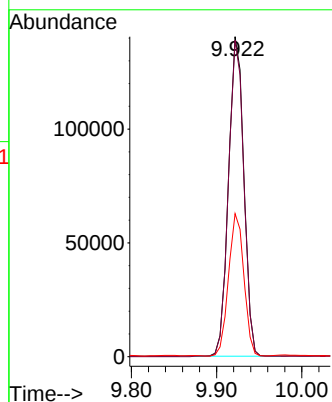
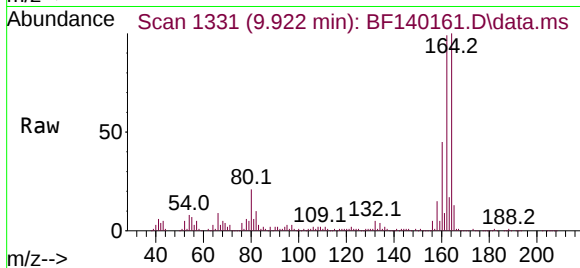
Tgt Ion:164 Resp: 175684

Ion Ratio Lower Upper

164 100

162 98.9 81.0 121.4

160 44.7 35.4 53.0



#42

2,4,6-Tribromophenol

Concen: 97.056 ng

RT: 10.716 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

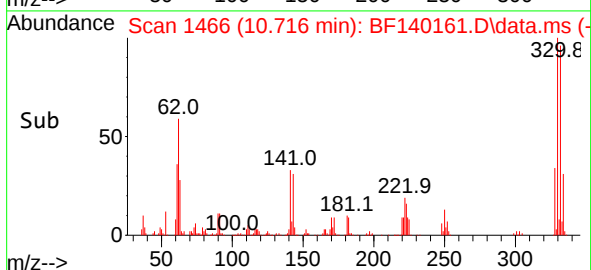
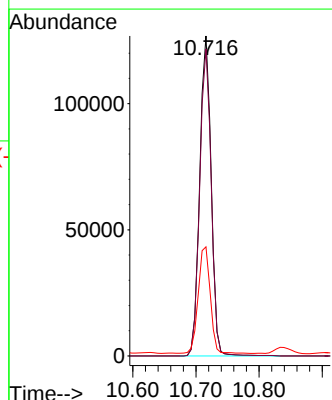
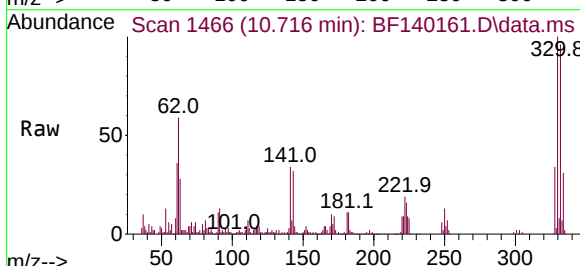
Tgt Ion:330 Resp: 159492

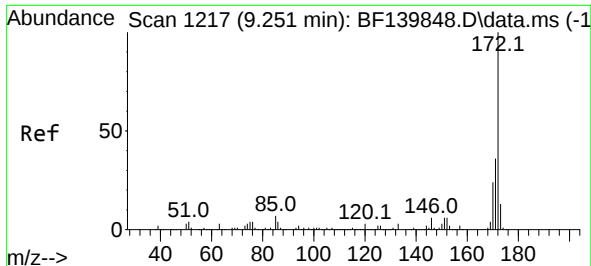
Ion Ratio Lower Upper

330 100

332 96.6 78.1 117.1

141 35.1 26.6 39.8





#45

2-Fluorobiphenyl

Concen: 82.492 ng

RT: 9.239 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

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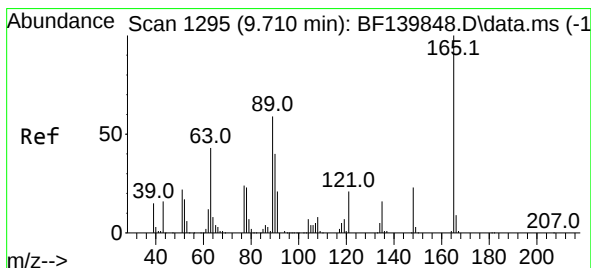
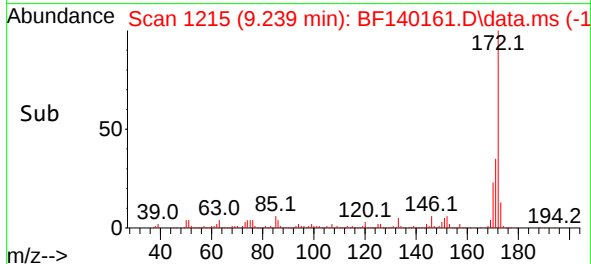
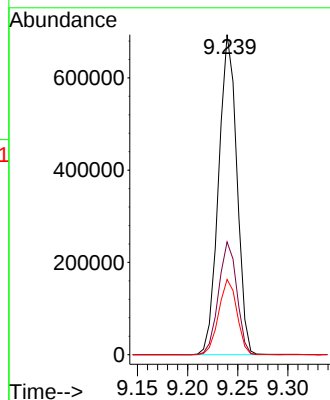
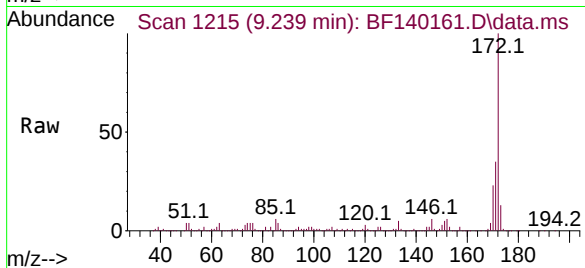
Tgt Ion:172 Resp: 876898

Ion Ratio Lower Upper

172 100

171 35.3 28.6 43.0

170 23.5 19.1 28.7



#51

2,6-Dinitrotoluene

Concen: 11.141 ng

RT: 9.922 min Scan# 1331

Delta R.T. 0.212 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

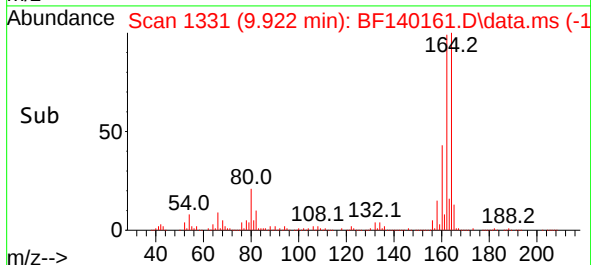
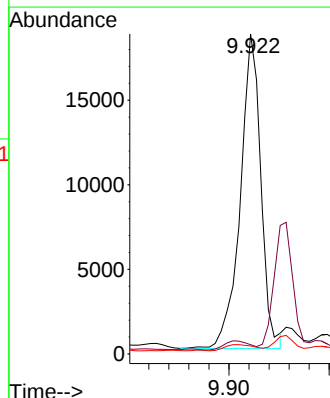
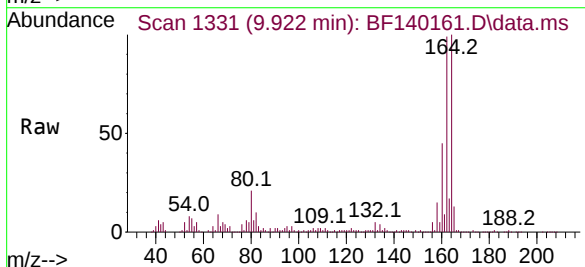
Tgt Ion:165 Resp: 26398

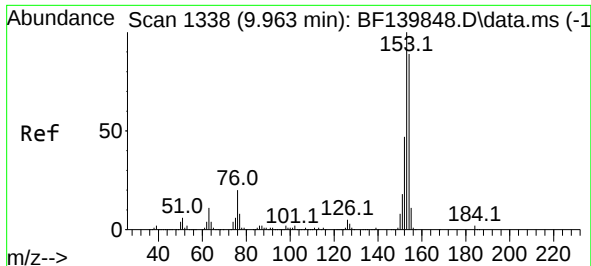
Ion Ratio Lower Upper

165 100

63 2.9 50.6 75.8#

89 2.5 47.5 71.3#

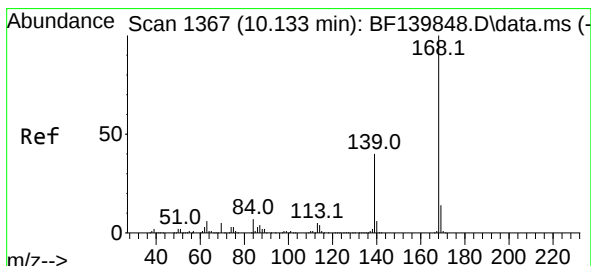
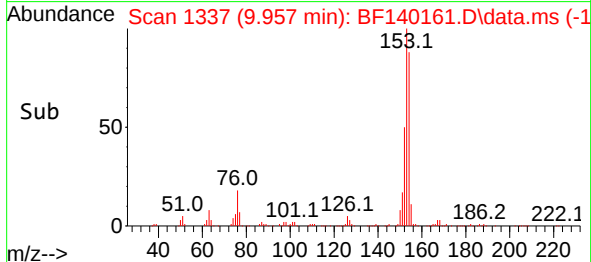
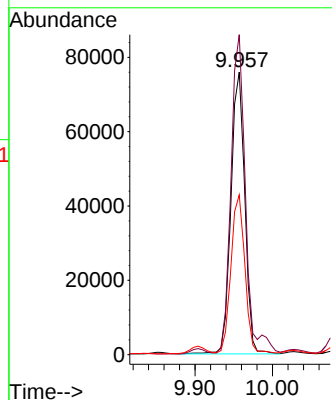
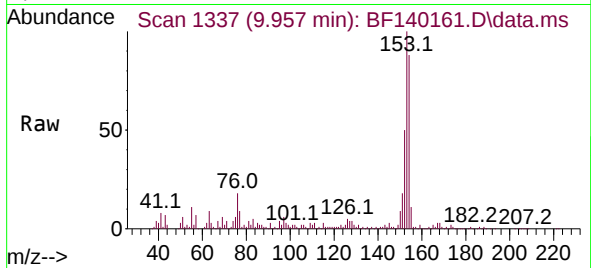




#52
Acenaphthene
Concen: 10.216 ng
RT: 9.957 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

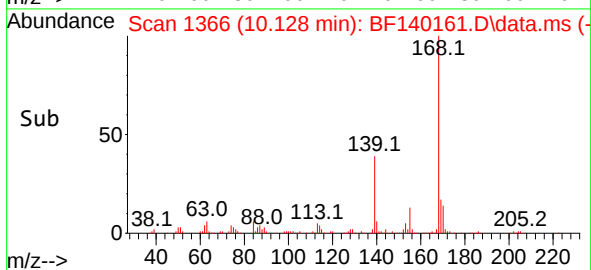
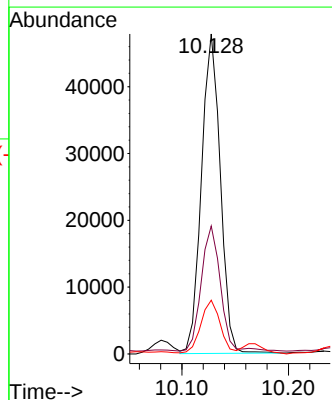
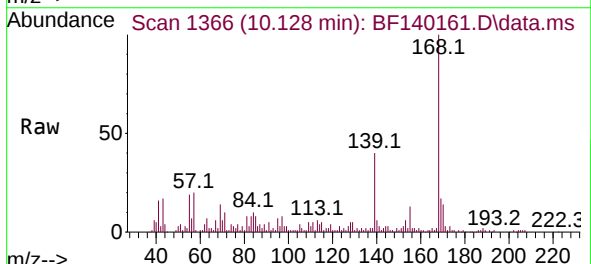
Instrument :
BNA_F
ClientSampleId :
HR-04-102924

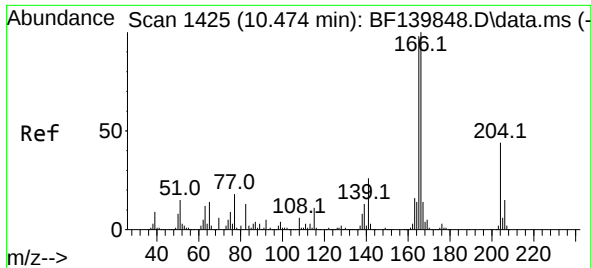
Tgt Ion:154 Resp: 94114
Ion Ratio Lower Upper
154 100
153 113.2 89.8 134.6
152 56.5 42.4 63.6



#55
Dibenzofuran
Concen: 4.461 ng
RT: 10.128 min Scan# 1366
Delta R.T. -0.006 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion:168 Resp: 58964
Ion Ratio Lower Upper
168 100
139 40.0 31.8 47.6
169 16.8 11.6 17.4

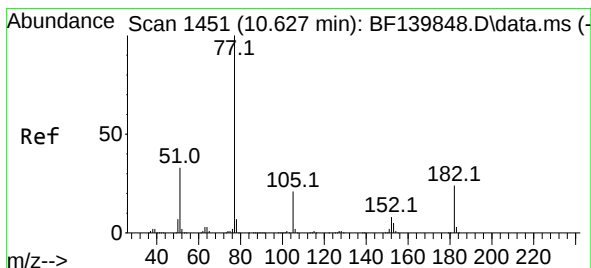
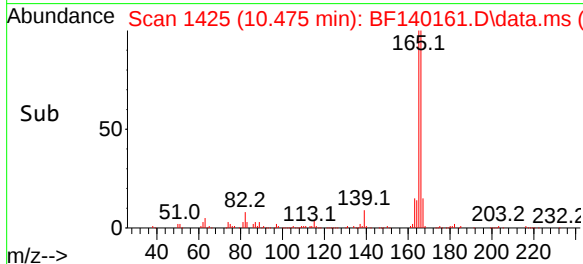
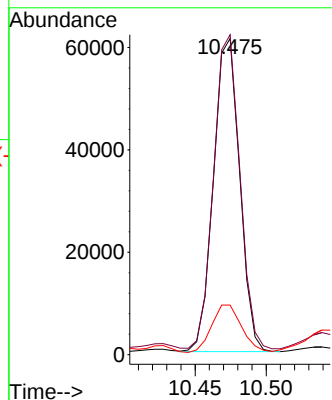
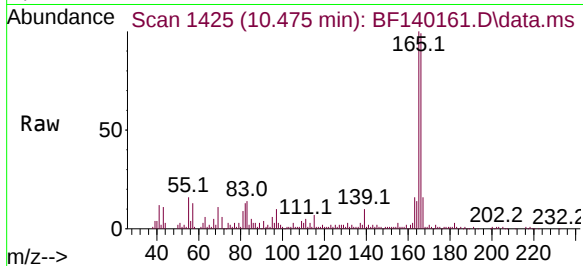




#58
 Fluorene
 Concen: 7.766 ng
 RT: 10.475 min Scan# 1425
 Delta R.T. 0.000 min
 Lab File: BF140161.D
 Acq: 30 Oct 2024 16:53

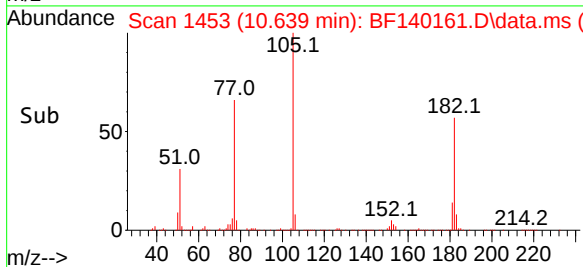
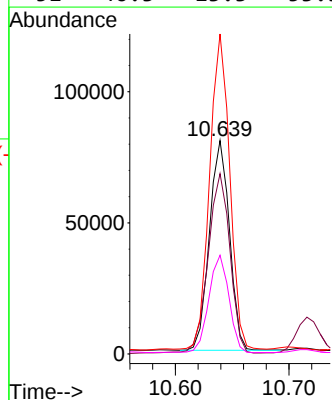
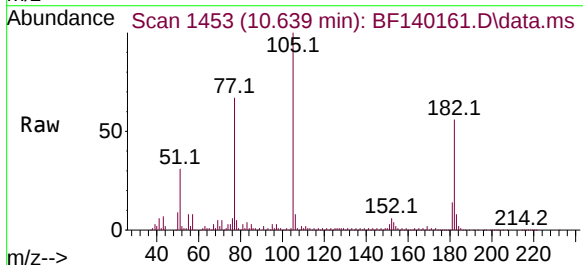
Instrument :
 BNA_F
 ClientSampleId :
 HR-04-102924

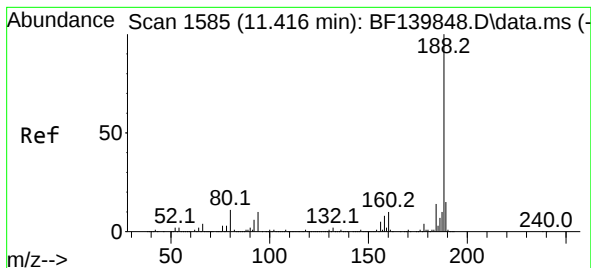
Tgt Ion:166 Resp: 78184
 Ion Ratio Lower Upper
 166 100
 165 101.2 78.5 117.7
 167 15.7 10.9 16.3



#63
 Azobenzene
 Concen: 8.604 ng
 RT: 10.639 min Scan# 1453
 Delta R.T. 0.012 min
 Lab File: BF140161.D
 Acq: 30 Oct 2024 16:53

Tgt Ion: 77 Resp: 98002
 Ion Ratio Lower Upper
 77 100
 182 84.5 3.3 43.3#
 105 150.0 1.2 41.2#
 51 46.3 13.3 53.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

HR-04-102924

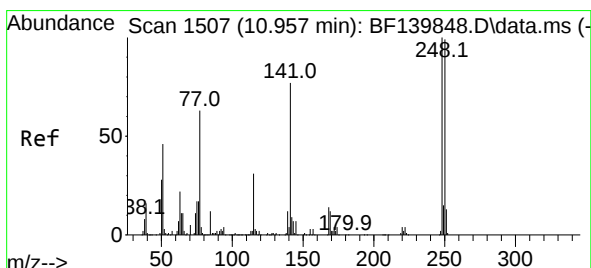
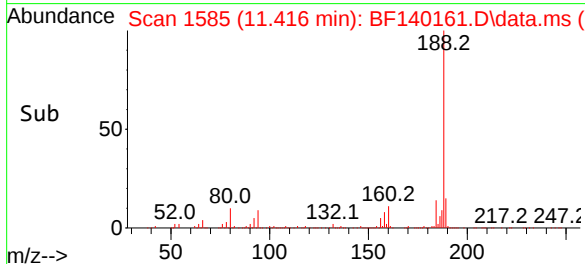
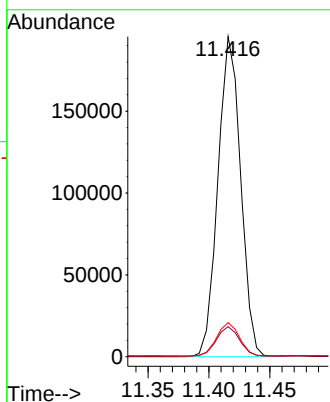
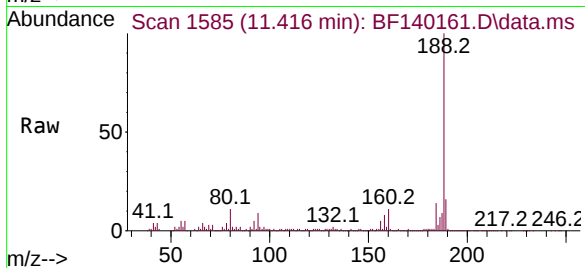
Tgt Ion:188 Resp: 253898

Ion Ratio Lower Upper

188 100

94 9.4 7.9 11.9

80 10.7 9.0 13.4



#67

4-Bromophenyl-phenylether

Concen: 4.002 ng

RT: 10.716 min Scan# 1466

Delta R.T. -0.241 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

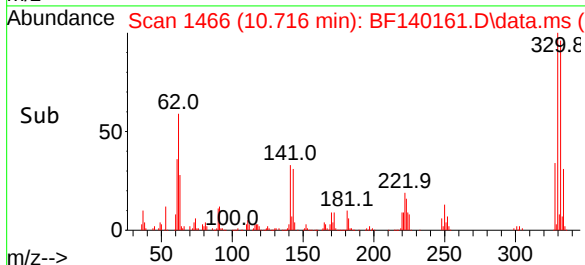
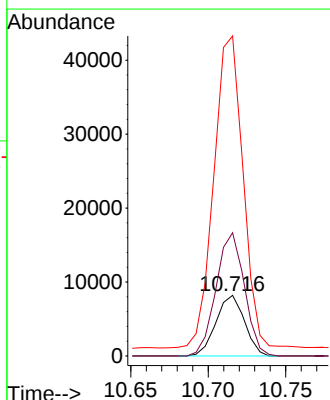
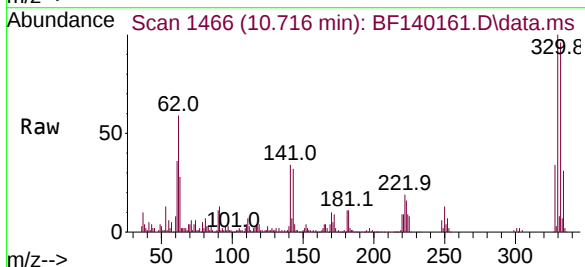
Tgt Ion:248 Resp: 10467

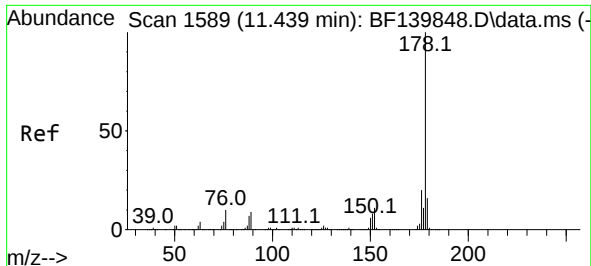
Ion Ratio Lower Upper

248 100

250 203.2 79.0 118.6#

141 527.9 61.7 92.5#

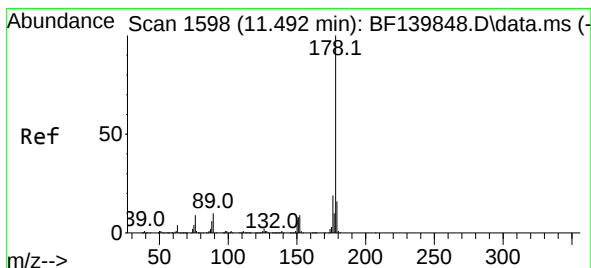
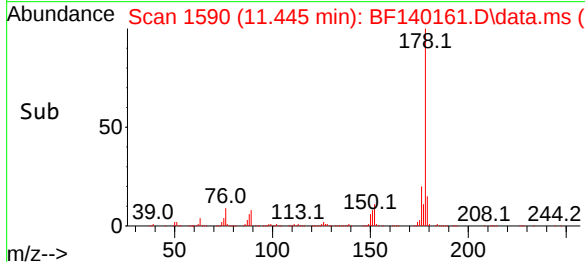
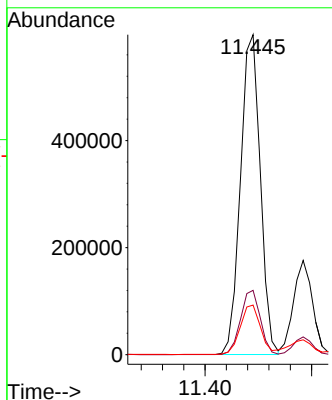
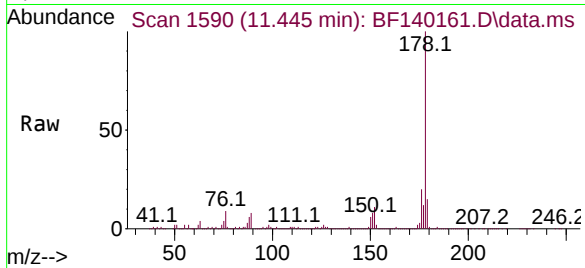




#71
Phenanthrene
Concen: 64.492 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.006 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

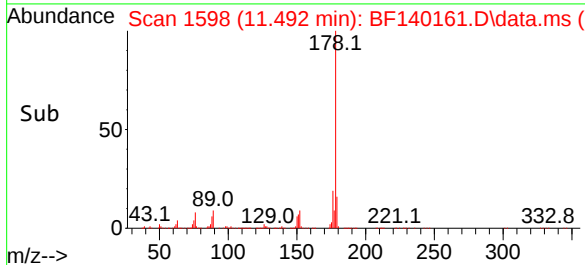
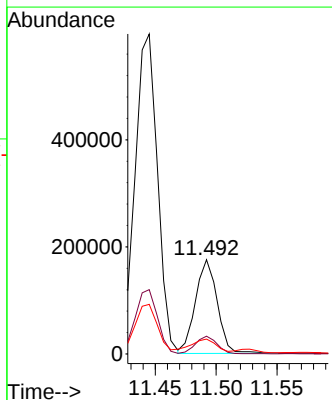
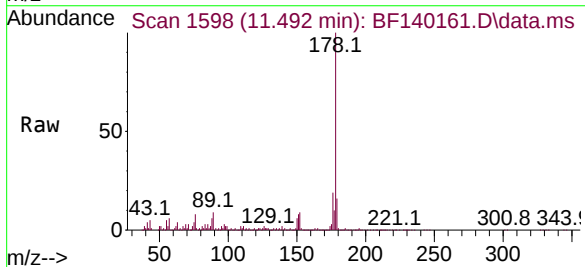
Instrument :
BNA_F
ClientSampleId :
HR-04-102924

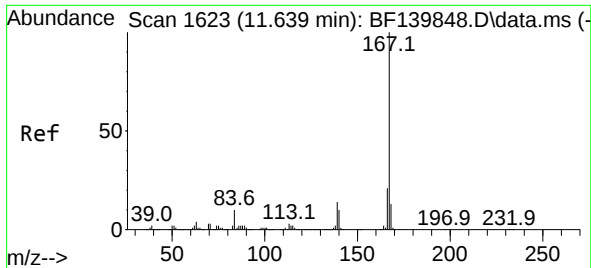
Tgt Ion:178 Resp: 773455
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.6
179 15.5 12.6 18.8



#72
Anthracene
Concen: 18.696 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion:178 Resp: 218773
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.8 12.4 18.6

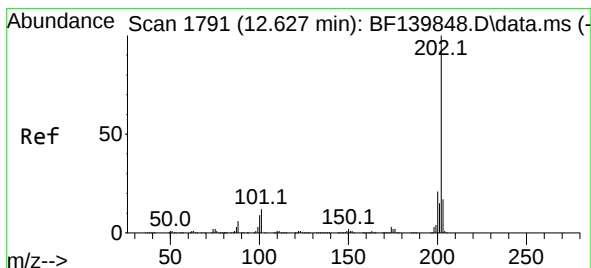
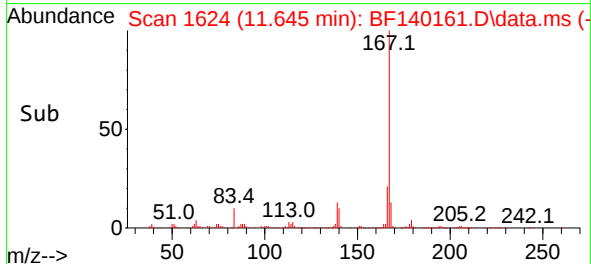
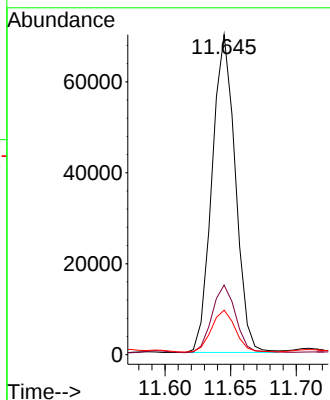
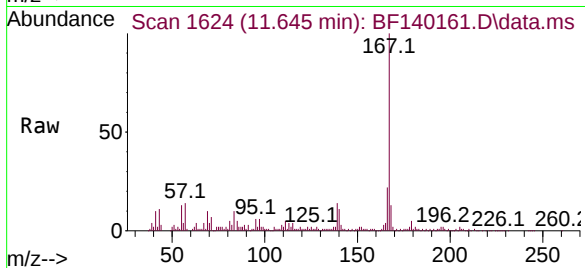




#73
 Carbazole
 Concen: 7.930 ng
 RT: 11.645 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: BF140161.D
 Acq: 30 Oct 2024 16:53

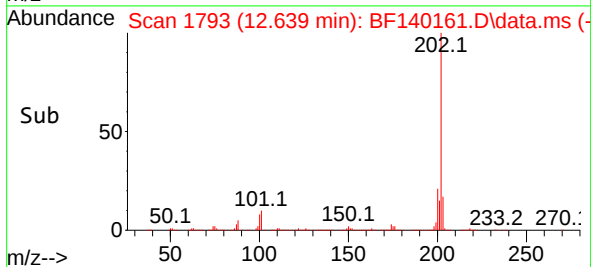
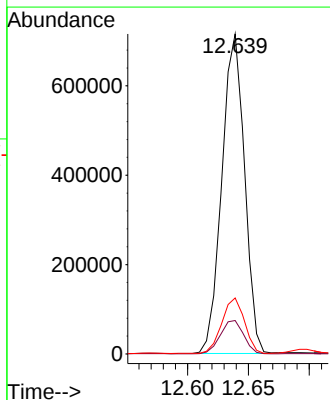
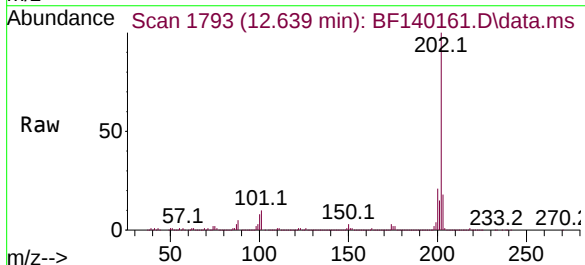
Instrument :
 BNA_F
 ClientSampleId :
 HR-04-102924

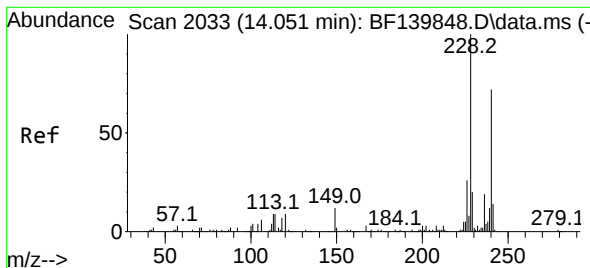
Tgt Ion:167	Resp:	86298
Ion Ratio	Lower	Upper
167	100	
166	21.8	17.0 25.6
139	13.9	10.8 16.2



#75
 Fluoranthene
 Concen: 76.664 ng
 RT: 12.639 min Scan# 1793
 Delta R.T. 0.012 min
 Lab File: BF140161.D
 Acq: 30 Oct 2024 16:53

Tgt Ion:202	Resp:	929483
Ion Ratio	Lower	Upper
202	100	
101	10.5	0.0 31.9
203	17.5	0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.080 min Scan# 2038

Delta R.T. 0.029 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

HR-04-102924

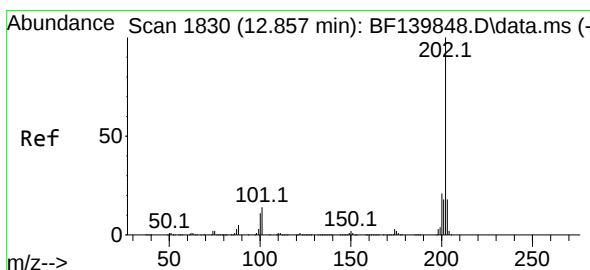
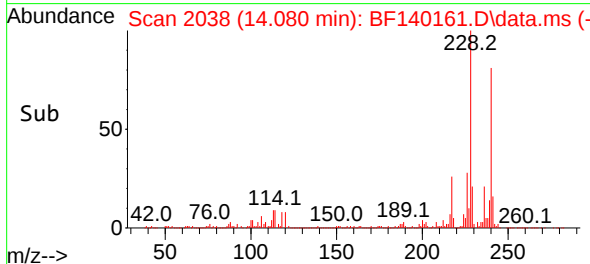
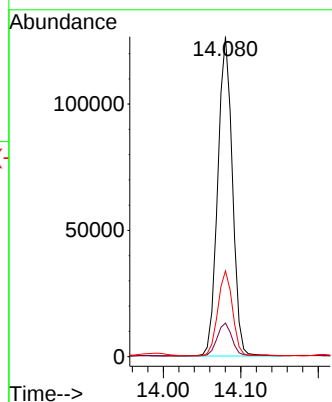
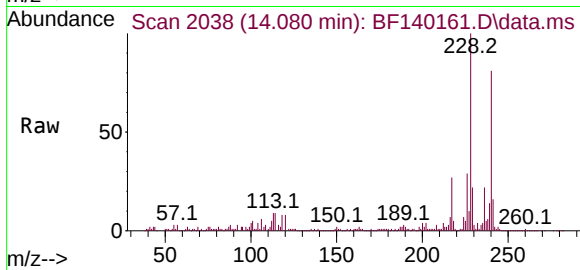
Tgt Ion:240 Resp: 166231

Ion Ratio Lower Upper

240 100

120 10.5 9.4 14.2

236 26.8 20.9 31.3



#78

Pyrene

Concen: 51.598 ng

RT: 12.868 min Scan# 1832

Delta R.T. 0.012 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

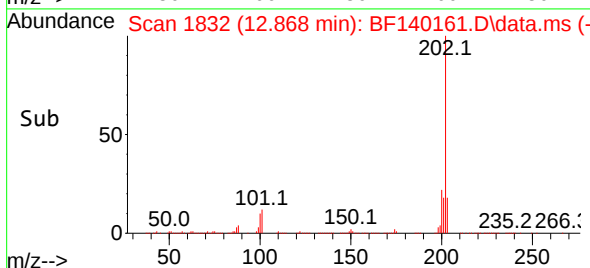
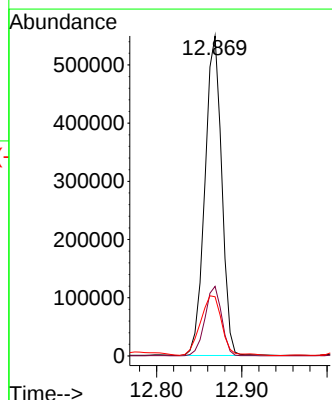
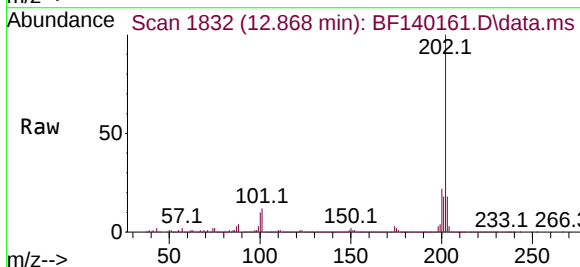
Tgt Ion:202 Resp: 750782

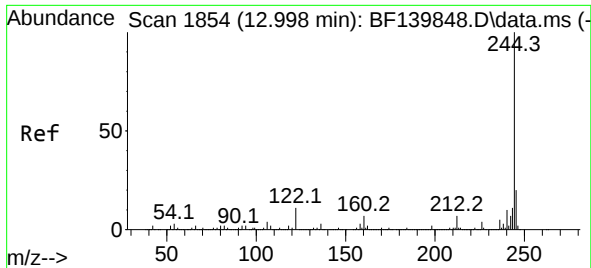
Ion Ratio Lower Upper

202 100

200 21.7 17.2 25.8

203 18.5 14.2 21.4

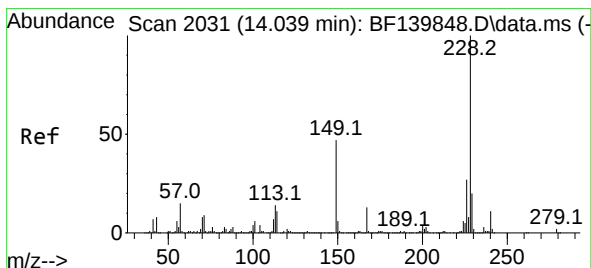
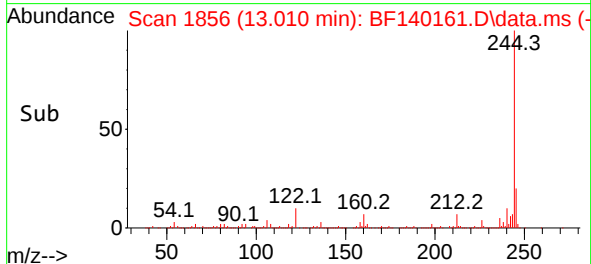
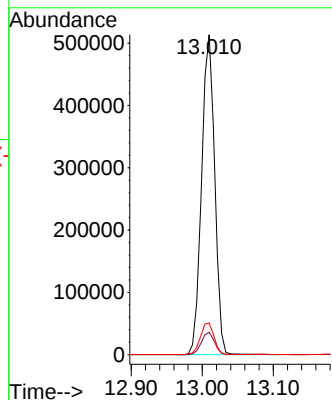
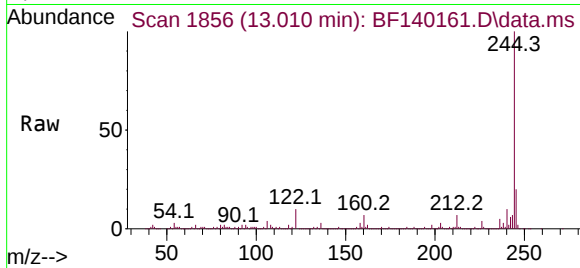




#79
 Terphenyl-d14
 Concen: 64.806 ng
 RT: 13.010 min Scan# 1856
 Delta R.T. 0.012 min
 Lab File: BF140161.D
 Acq: 30 Oct 2024 16:53

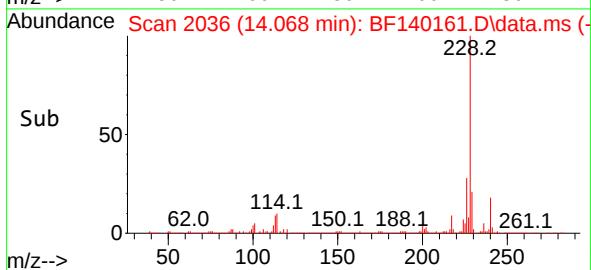
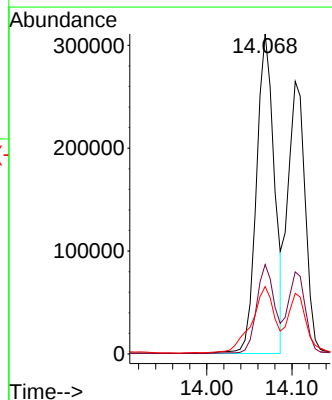
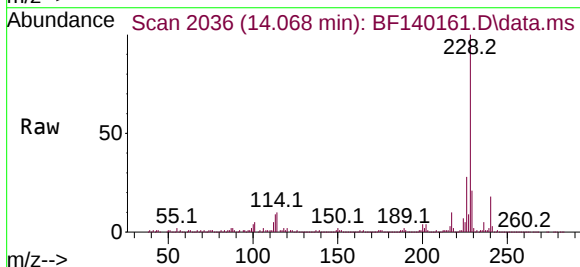
Instrument :
 BNA_F
 ClientSampleId :
 HR-04-102924

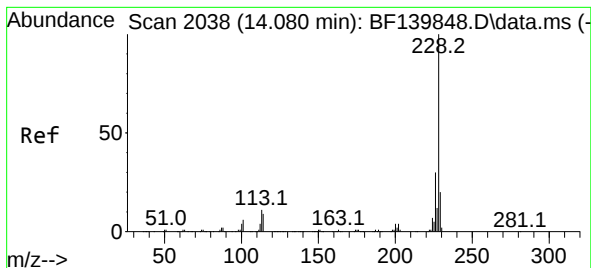
Tgt Ion:244 Resp: 661121
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.7 8.5
 122 10.0 8.6 13.0



#81
 Benzo(a)anthracene
 Concen: 41.935 ng
 RT: 14.068 min Scan# 2036
 Delta R.T. 0.030 min
 Lab File: BF140161.D
 Acq: 30 Oct 2024 16:53

Tgt Ion:228 Resp: 453786
 Ion Ratio Lower Upper
 228 100
 226 27.9 21.6 32.4
 229 21.1 16.1 24.1





#83

Chrysene

Concen: 37.152 ng

RT: 14.104 min Scan# 2042

Delta R.T. 0.024 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

HR-04-102924

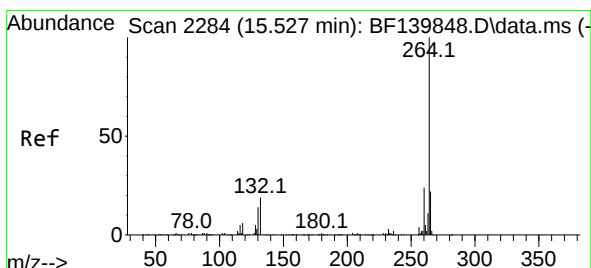
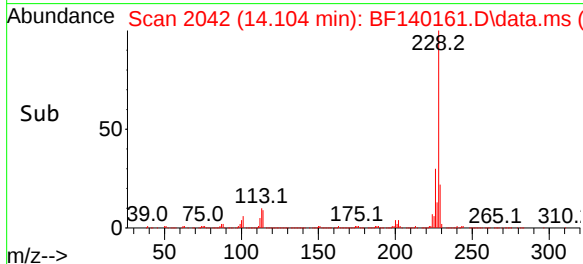
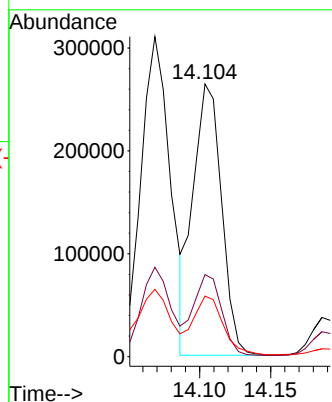
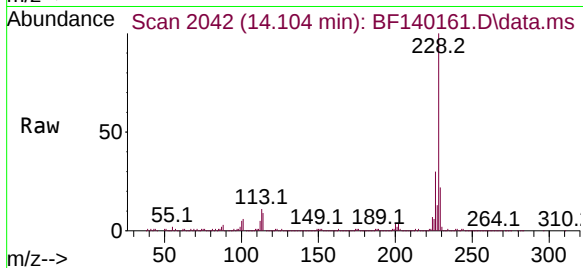
Tgt Ion:228 Resp: 368611

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 22.2 15.8 23.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.610 min Scan# 2298

Delta R.T. 0.082 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

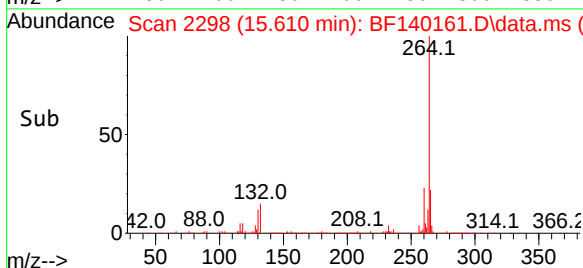
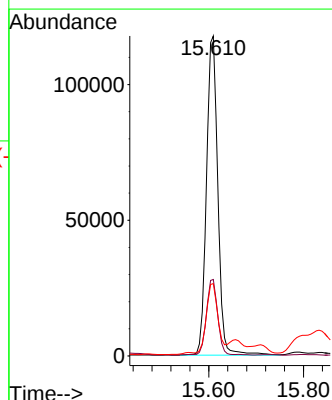
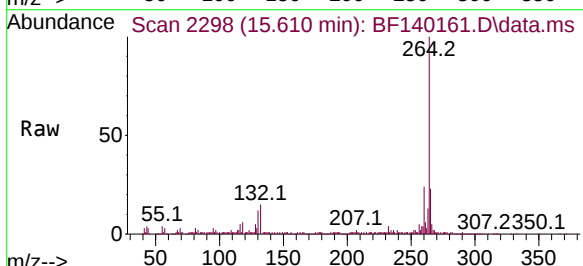
Tgt Ion:264 Resp: 196795

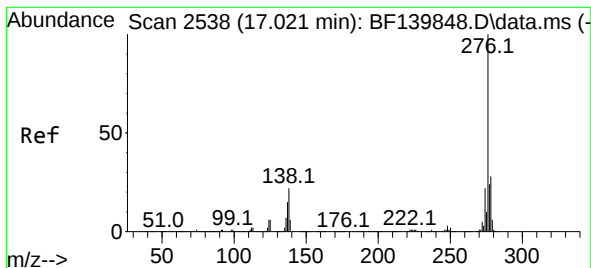
Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.2

265 22.6 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.549 ng

RT: 16.962 min Scan# 21

Delta R.T. -0.059 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

HR-04-102924

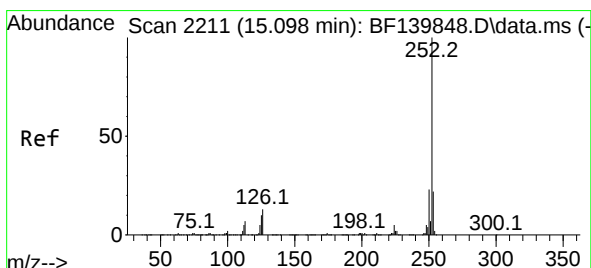
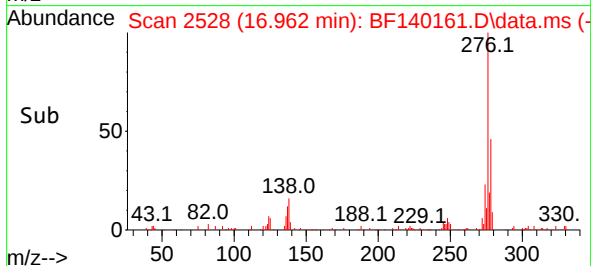
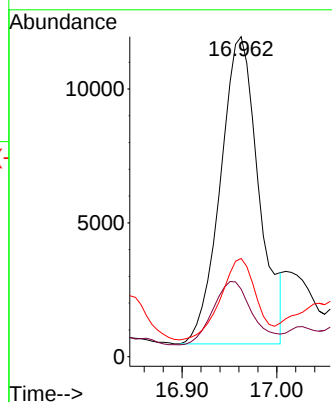
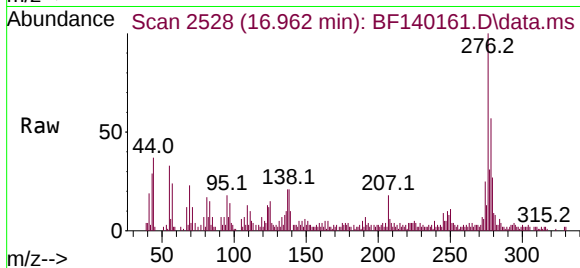
Tgt Ion:276 Resp: 32275

Ion Ratio Lower Upper

276 100

138 21.3 20.4 30.6

277 24.5 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 57.998 ng

RT: 15.168 min Scan# 2223

Delta R.T. 0.071 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

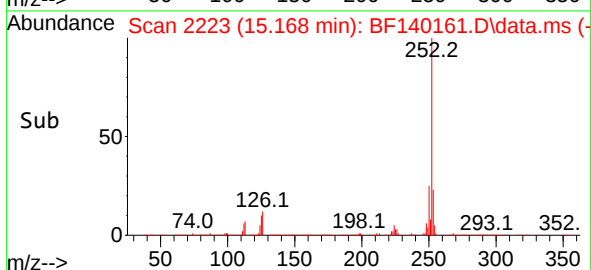
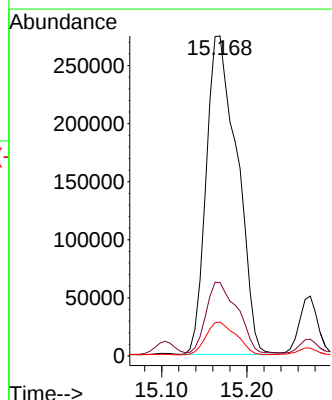
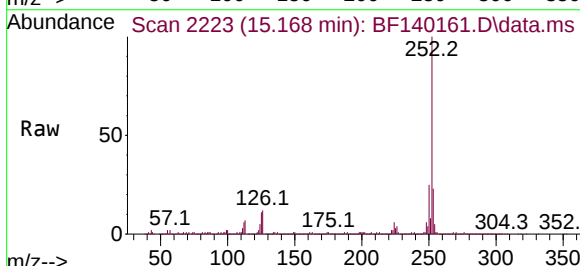
Tgt Ion:252 Resp: 695272

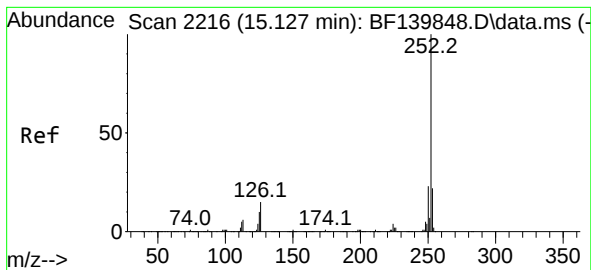
Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

125 10.6 7.9 11.9





#89

Benzo(k)fluoranthene

Concen: 67.250 ng

RT: 15.168 min Scan# 21

Delta R.T. 0.041 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

Instrument :

BNA_F

ClientSampleId :

HR-04-102924

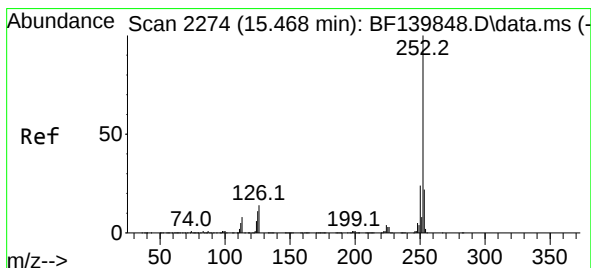
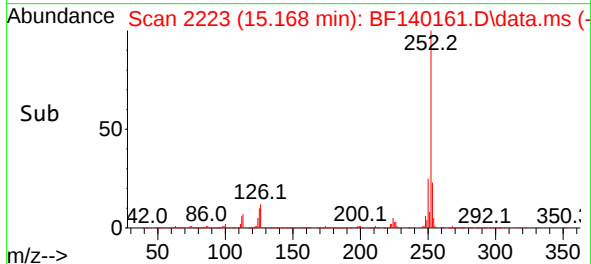
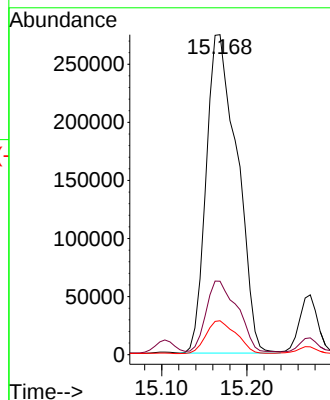
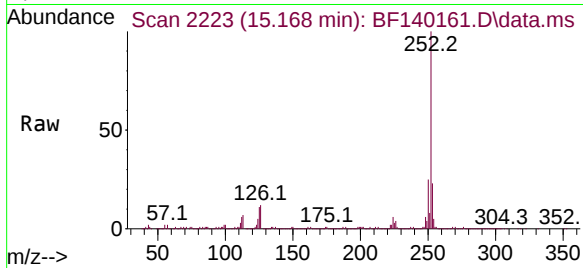
Tgt Ion:252 Resp: 695272

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

125 10.6 7.9 11.9



#90

Benzo(a)pyrene

Concen: 36.068 ng

RT: 15.545 min Scan# 2287

Delta R.T. 0.077 min

Lab File: BF140161.D

Acq: 30 Oct 2024 16:53

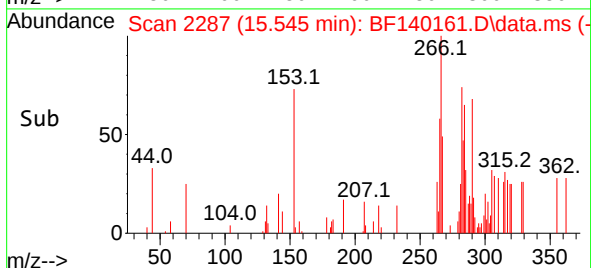
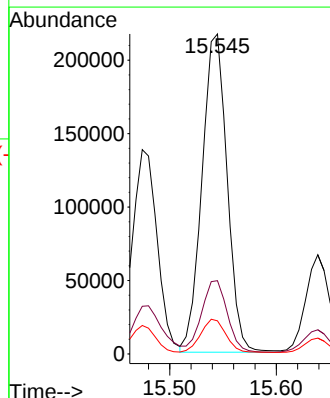
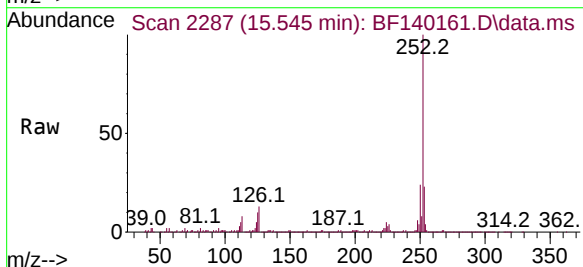
Tgt Ion:252 Resp: 355775

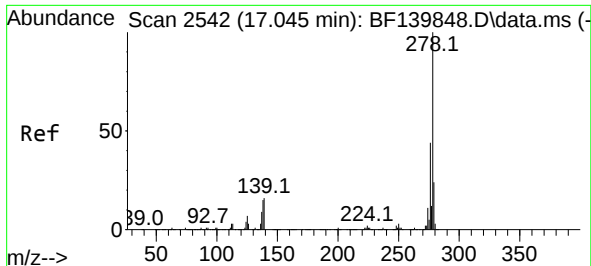
Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

125 10.3 8.7 13.1

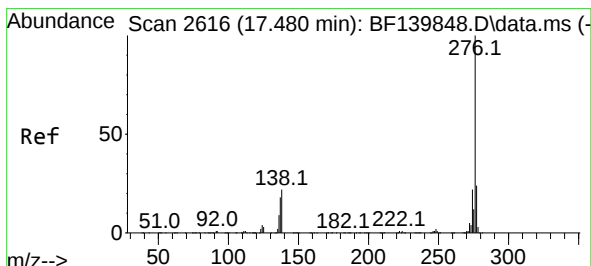
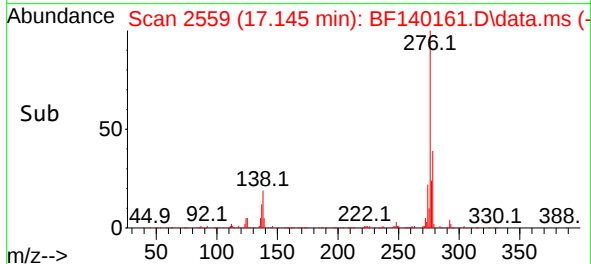
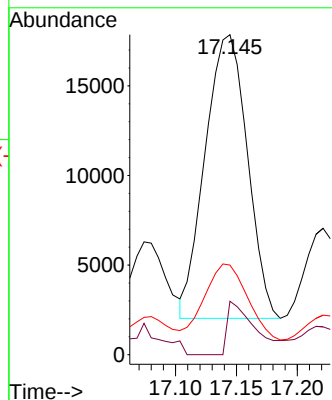
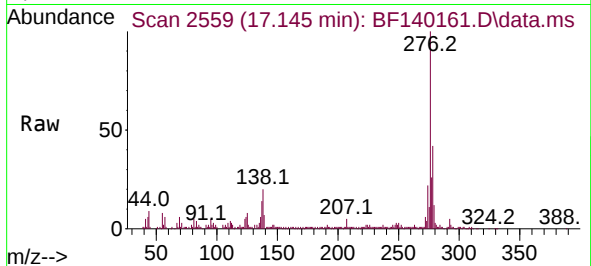




#91
Dibenzo(a,h)anthracene
Concen: 3.609 ng
RT: 17.145 min Scan# 21
Delta R.T. 0.100 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Instrument :
BNA_F
ClientSampleId :
HR-04-102924

Tgt Ion:278 Resp: 38121
Ion Ratio Lower Upper
278 100
139 16.7 13.1 19.7
279 28.0 19.0 28.4



#92
Benzo(g,h,i)perylene
Concen: 13.545 ng
RT: 17.592 min Scan# 2635
Delta R.T. 0.112 min
Lab File: BF140161.D
Acq: 30 Oct 2024 16:53

Tgt Ion:276 Resp: 142890
Ion Ratio Lower Upper
276 100
277 24.8 19.0 28.6
138 20.4 17.4 26.0

