

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041023\
 Data File : BM039384.D
 Acq On : 10 Apr 2023 19:14
 Operator : CG/JU
 Sample : 02260-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SP-1C

Quant Time: Apr 11 02:13:49 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 02:05:37 2023
 Response via : Initial Calibration

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

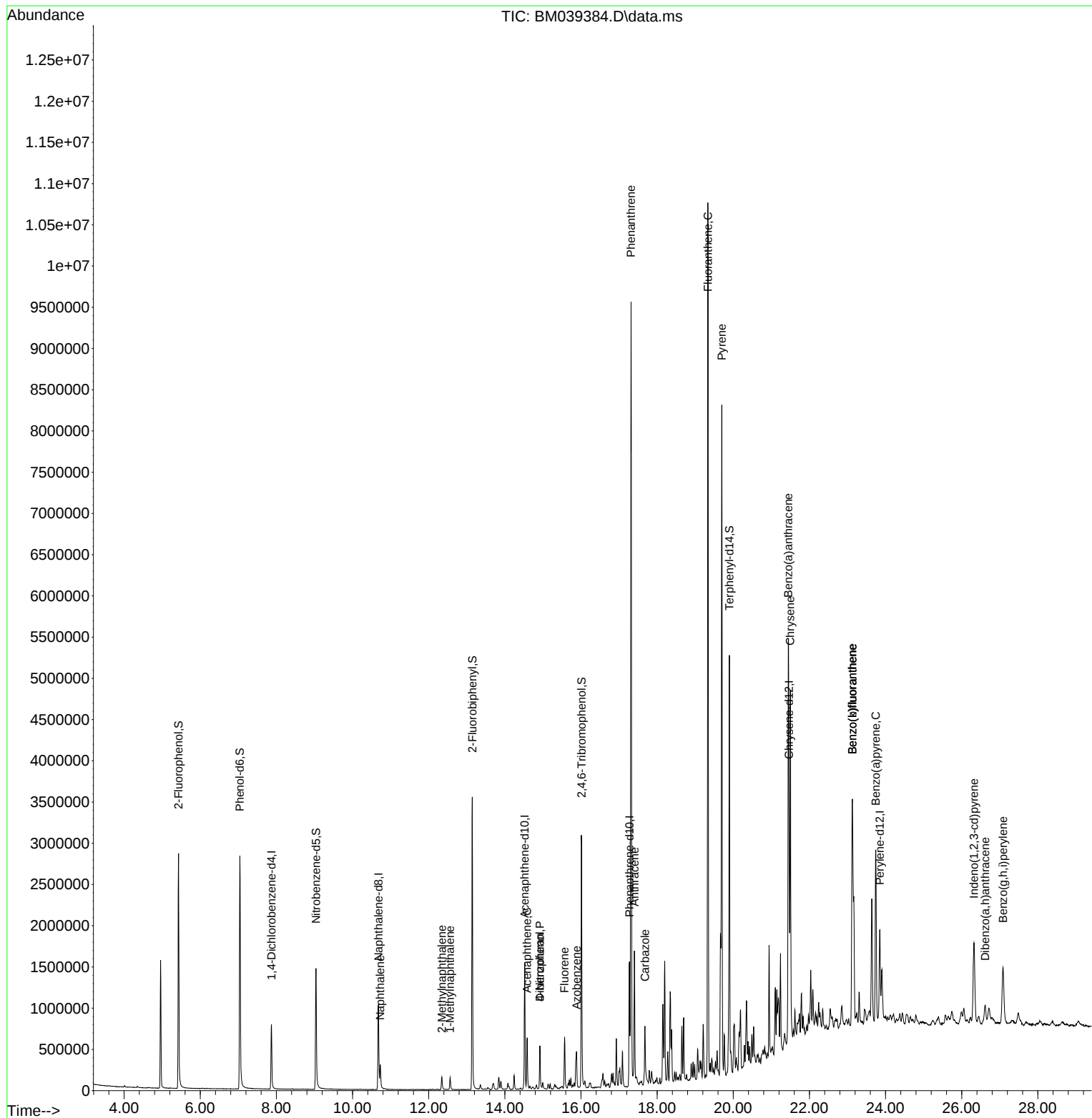
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.869	152	223836	20.000	ng	0.00
21) Naphthalene-d8	10.681	136	917592	20.000	ng	0.00
39) Acenaphthene-d10	14.521	164	518408	20.000	ng	0.00
64) Phenanthrene-d10	17.274	188	967235	20.000	ng	0.00
76) Chrysene-d12	21.462	240	736624	20.000	ng	0.00
86) Perylene-d12	23.850	264	843310	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	1267894	85.340	ng	0.00
7) Phenol-d6	7.040	99	1774602	92.348	ng	0.00
23) Nitrobenzene-d5	9.039	82	960836	50.893	ng	0.00
42) 2,4,6-Tribromophenol	16.015	330	482716	73.353	ng	0.00
45) 2-Fluorobiphenyl	13.145	172	1846267	48.254	ng	0.00
79) Terphenyl-d14	19.898	244	2347202	58.871	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.728	128	242824	4.911	ng	99
37) 2-Methylnaphthalene	12.345	142	86436	2.511	ng	96
38) 1-Methylnaphthalene	12.563	142	74580	2.314	ng	99
52) Acenaphthene	14.586	154	226387	7.526	ng	100
55) Dibenzofuran	14.921	168	331106	6.837	ng	96
56) 4-Nitrophenol	14.921	139	121806	15.904	ng	# 10
58) Fluorene	15.568	166	281425	7.338	ng	99
63) Azobenzene	15.886	77	127305	3.160	ng	# 1
71) Phenanthrene	17.315	178	5555665	104.875	ng	99
72) Anthracene	17.404	178	1043092	19.311	ng	99
73) Carbazole	17.680	167	464329	9.199	ng	100
75) Fluoranthene	19.333	202	6261793	103.696	ng	98
78) Pyrene	19.698	202	4940965	94.222	ng	99
81) Benzo(a)anthracene	21.445	228	2313827	44.538	ng	99
83) Chrysene	21.497	228	2273287	45.328	ng	97
87) Indeno(1,2,3-cd)pyrene	26.321	276	1027805	16.541	ng	95
88) Benzo(b)fluoranthene	23.127	252	2503803	48.523	ng	98
89) Benzo(k)fluoranthene	23.127	252	2503803	47.637	ng	98
90) Benzo(a)pyrene	23.744	252	1650057	32.552	ng	99
91) Dibenzo(a,h)anthracene	26.615	278	171978	3.296	ng	96
92) Benzo(g,h,i)perylene	27.085	276	913810	17.810	ng	99

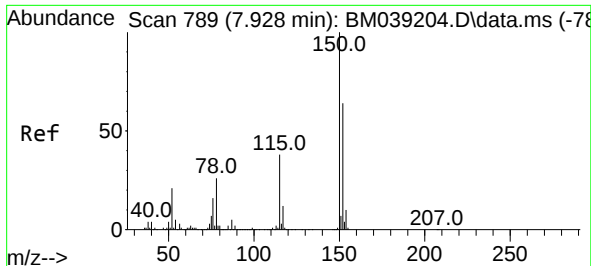
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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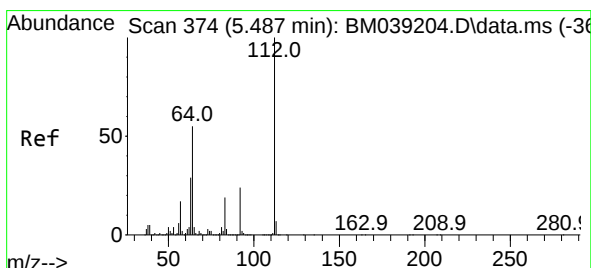
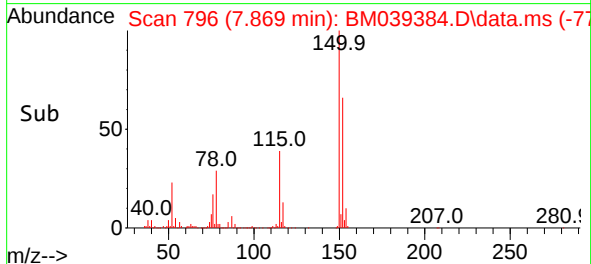
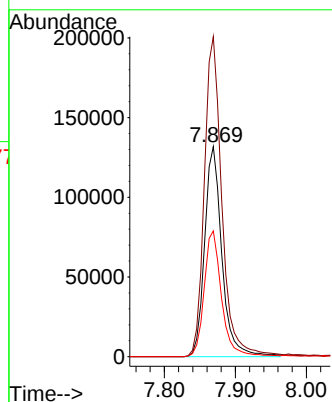
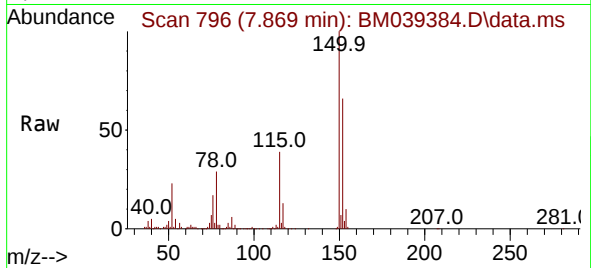




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.869 min Scan# 796
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

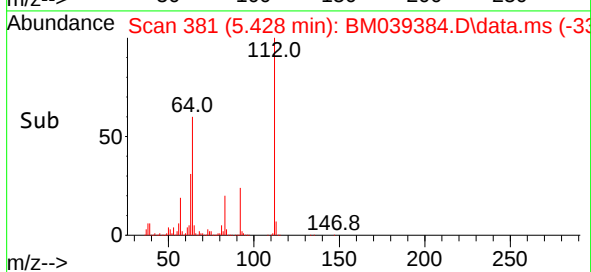
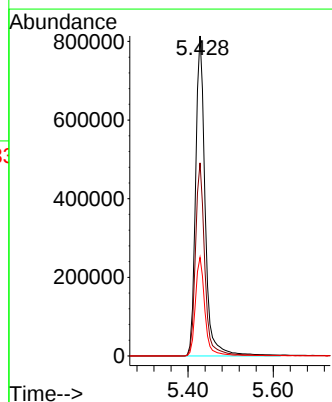
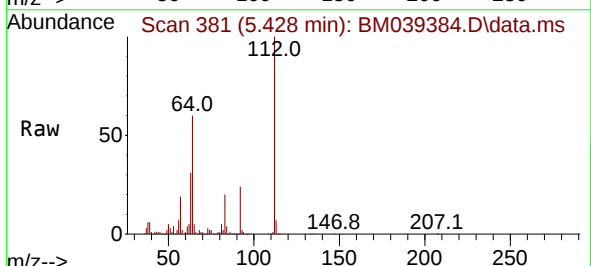
Instrument :
BNA_M
ClientSampleId :
SP-1C

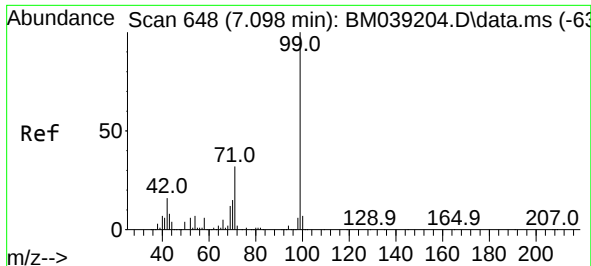
Tgt Ion:152 Resp: 223836
Ion Ratio Lower Upper
152 100
150 152.4 125.5 188.3
115 59.9 48.1 72.1



#5
2-Fluorophenol
Concen: 85.340 ng
RT: 5.428 min Scan# 381
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:112 Resp: 1267894
Ion Ratio Lower Upper
112 100
64 60.3 44.3 66.5
63 30.8 23.0 34.6



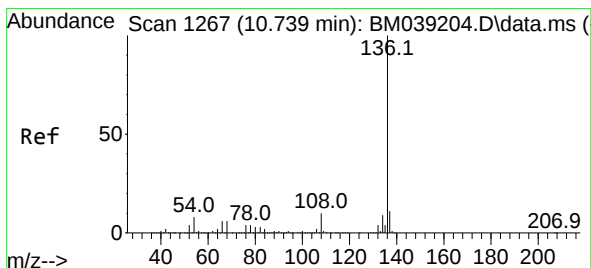
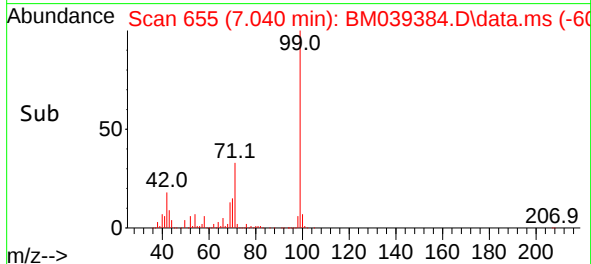
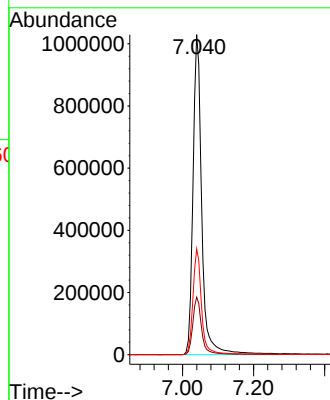
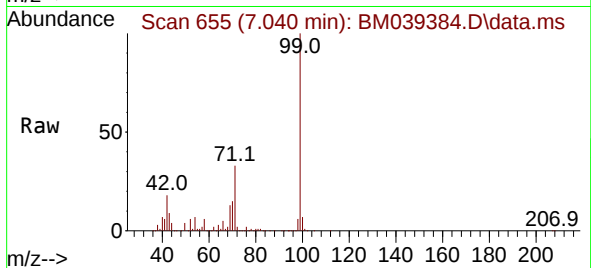


#7
Phenol-d6
Concen: 92.348 ng
RT: 7.040 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Instrument :
BNA_M
ClientSampleId :
SP-1C

Tgt Ion: 99 Resp: 1774602

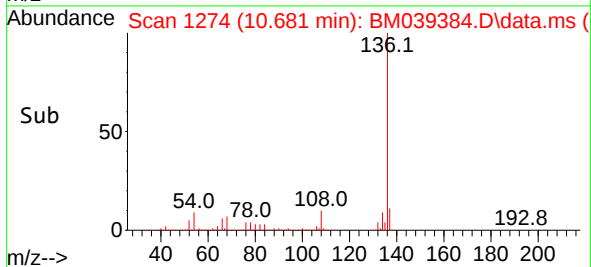
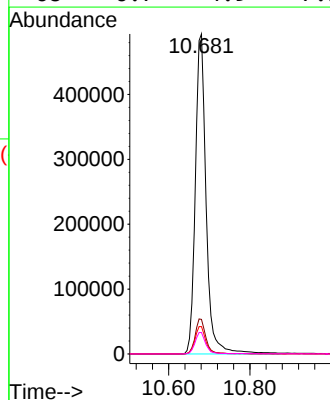
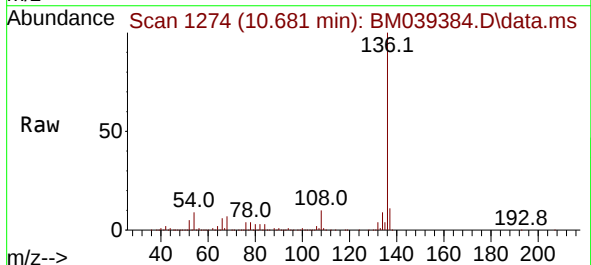
Ion	Ratio	Lower	Upper
99	100		
42	18.0	13.0	19.6
71	33.1	25.5	38.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.681 min Scan# 1274
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion: 136 Resp: 917592

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.6	6.2	9.4
68	6.7	4.9	7.3

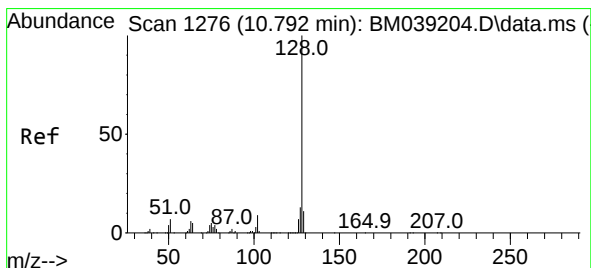
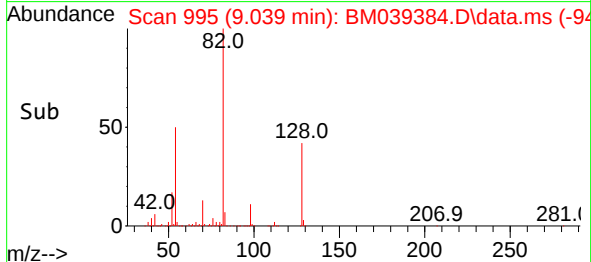
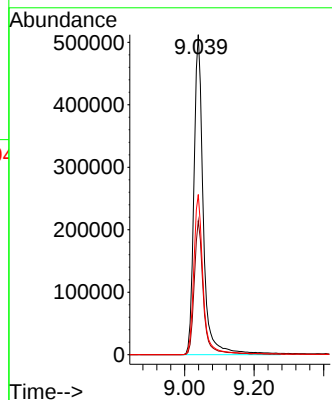
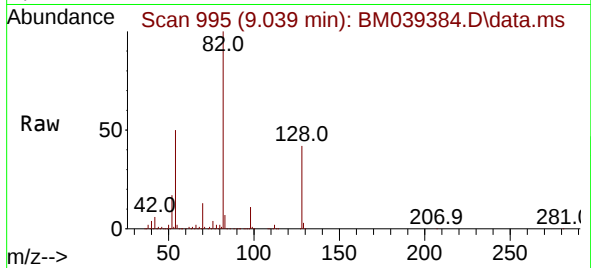




#23
Nitrobenzene-d5
Concen: 50.893 ng
RT: 9.039 min Scan# 91
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

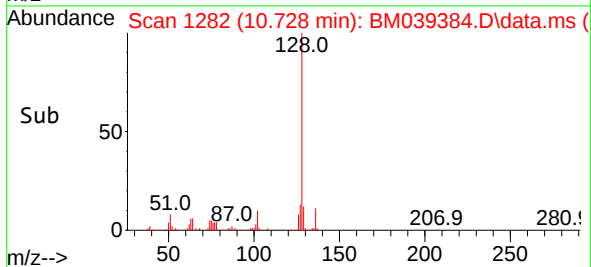
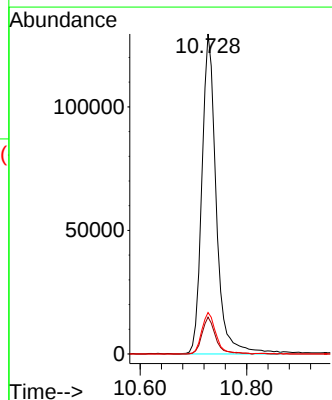
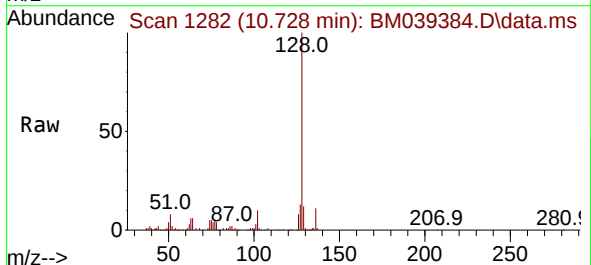
Instrument :
BNA_M
ClientSampleId :
SP-1C

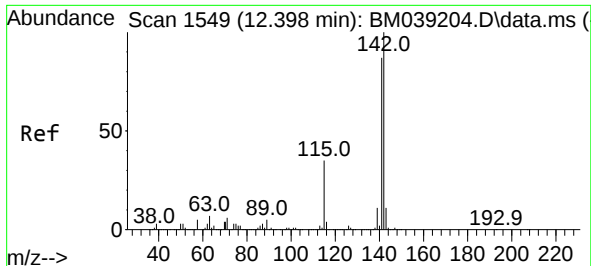
Tgt Ion: 82 Resp: 960836
Ion Ratio Lower Upper
82 100
128 41.9 35.1 52.7
54 50.0 38.5 57.7



#31
Naphthalene
Concen: 4.911 ng
RT: 10.728 min Scan# 1282
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion: 128 Resp: 242824
Ion Ratio Lower Upper
128 100
129 11.5 8.6 13.0
127 12.9 10.3 15.5





#37

2-Methylnaphthalene

Concen: 2.511 ng

RT: 12.345 min Scan# 1

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

SP-1C

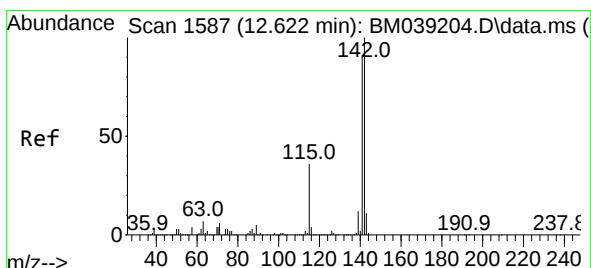
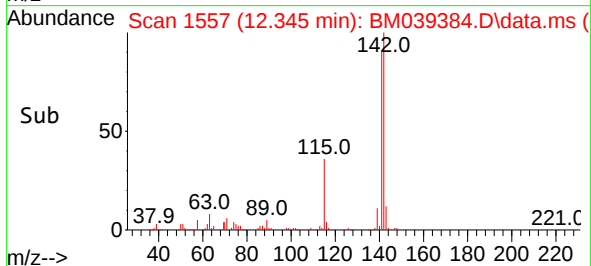
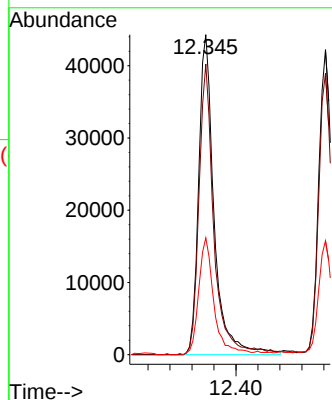
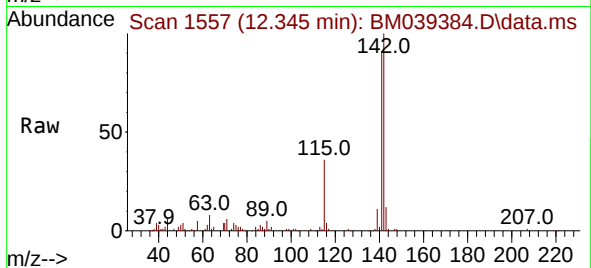
Tgt Ion:142 Resp: 86436

Ion Ratio Lower Upper

142 100

141 90.8 69.8 104.8

115 36.5 27.8 41.8



#38

1-Methylnaphthalene

Concen: 2.314 ng

RT: 12.563 min Scan# 1594

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

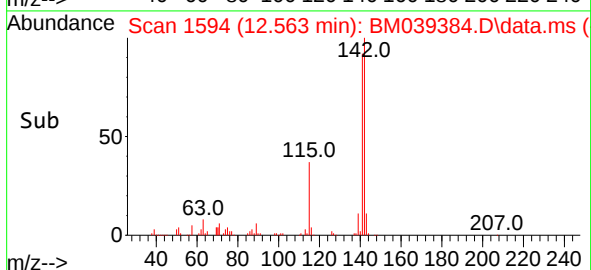
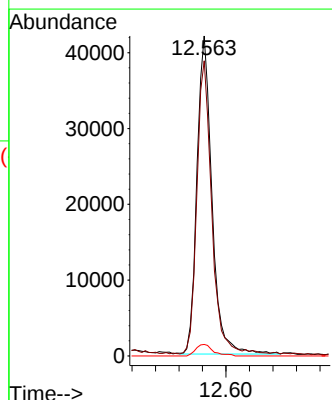
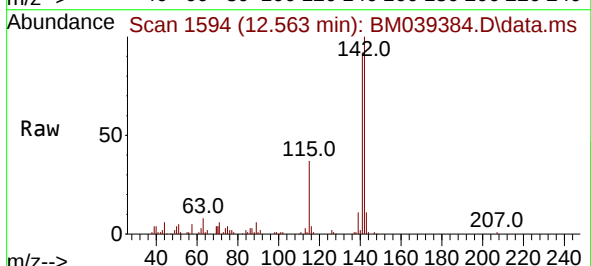
Tgt Ion:142 Resp: 74580

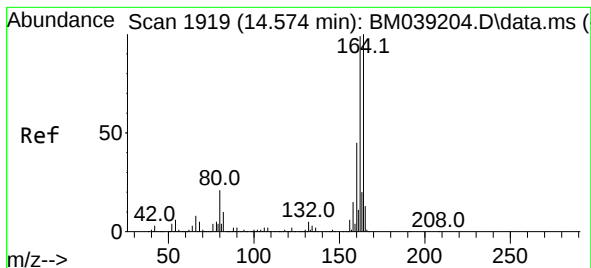
Ion Ratio Lower Upper

142 100

141 92.3 73.2 109.8

116 3.6 3.0 4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.521 min Scan# 1919

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

SP-1C

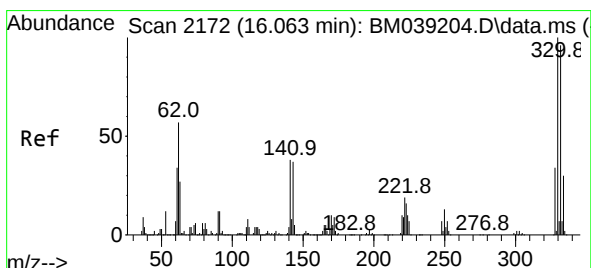
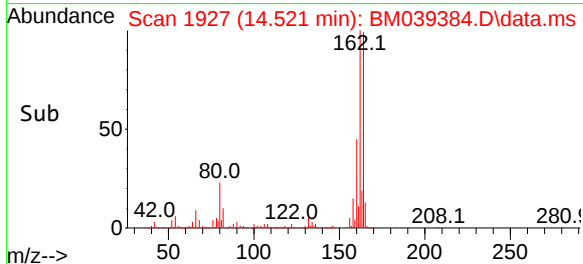
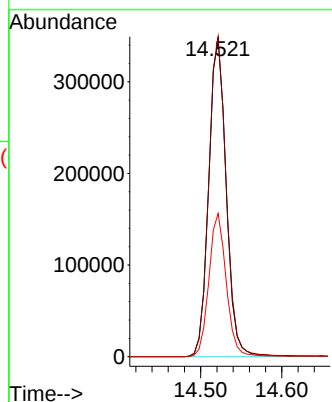
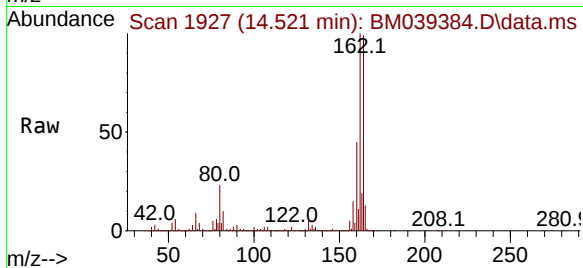
Tgt Ion:164 Resp: 518408

Ion Ratio Lower Upper

164 100

162 100.9 79.1 118.7

160 45.1 35.8 53.8



#42

2,4,6-Tribromophenol

Concen: 73.353 ng

RT: 16.015 min Scan# 2181

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

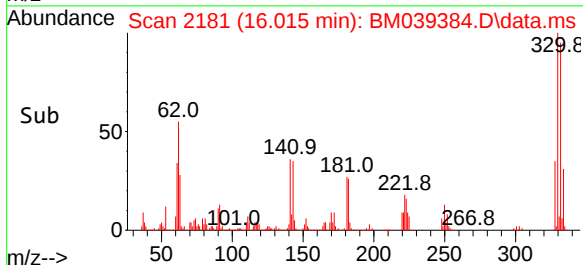
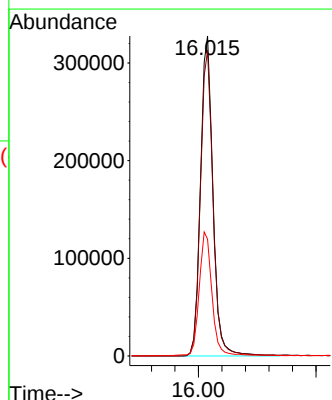
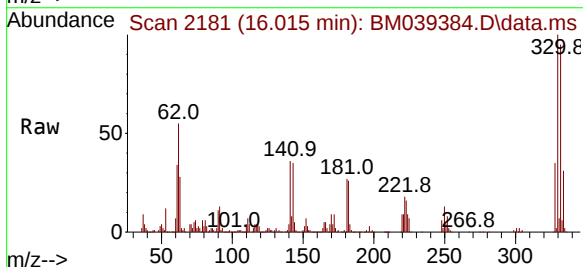
Tgt Ion:330 Resp: 482716

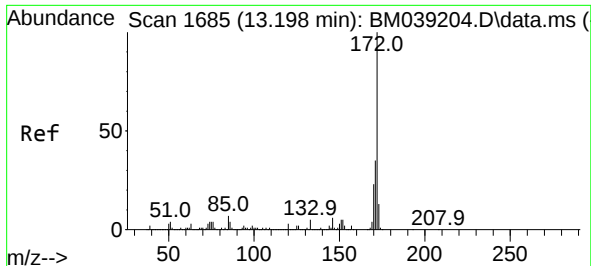
Ion Ratio Lower Upper

330 100

332 95.9 77.4 116.0

141 39.7 29.8 44.6

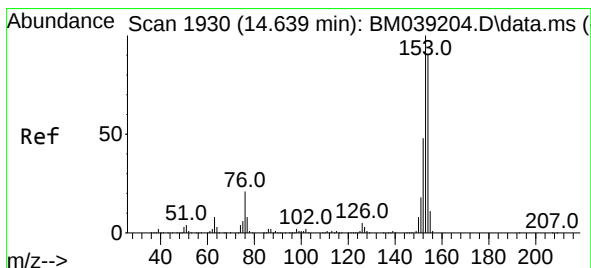
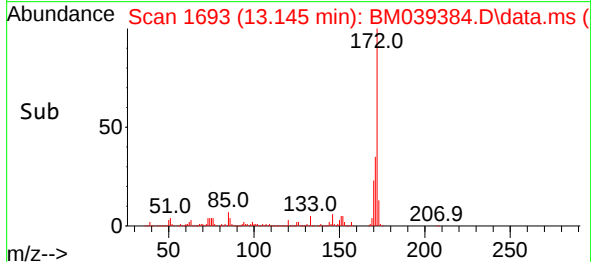
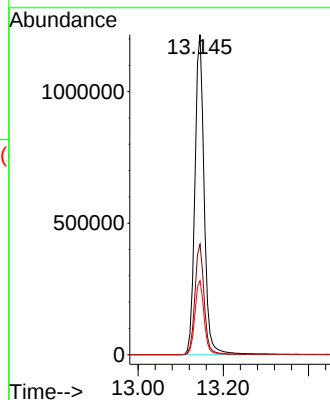
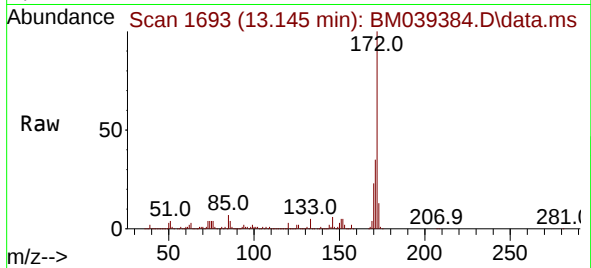




#45
2-Fluorobiphenyl
Concen: 48.254 ng
RT: 13.145 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

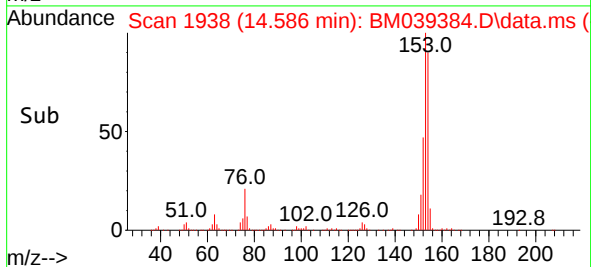
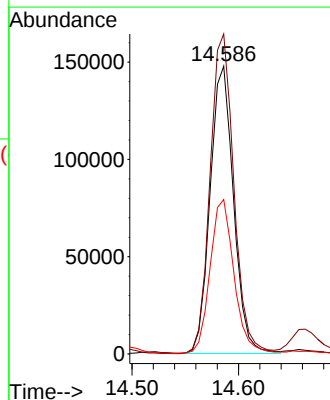
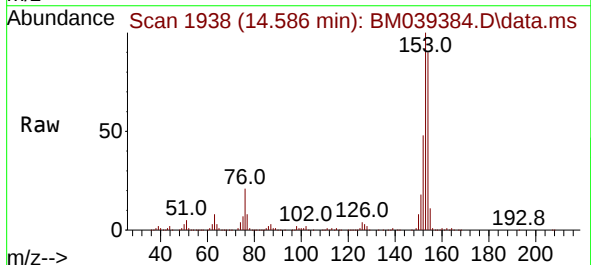
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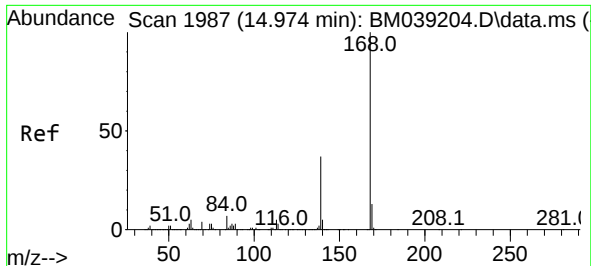
Tgt Ion:172 Resp: 1846267
Ion Ratio Lower Upper
172 100
171 34.5 28.0 42.0
170 23.1 18.7 28.1



#52
Acenaphthene
Concen: 7.526 ng
RT: 14.586 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:154 Resp: 226387
Ion Ratio Lower Upper
154 100
153 111.2 89.1 133.7
152 53.6 42.6 64.0

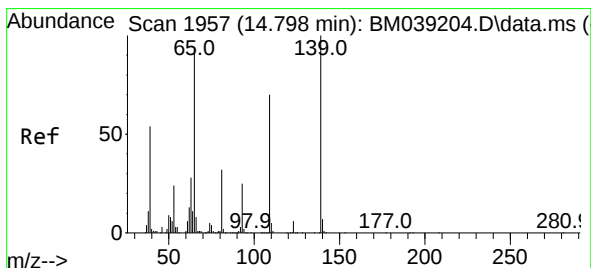
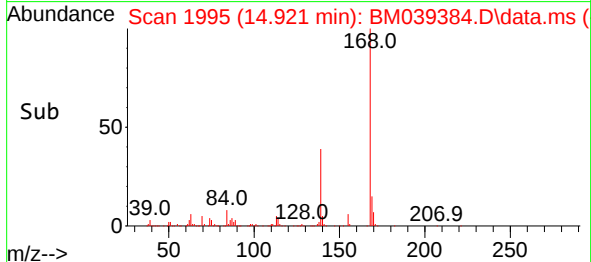
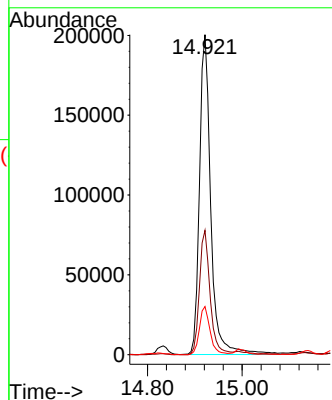
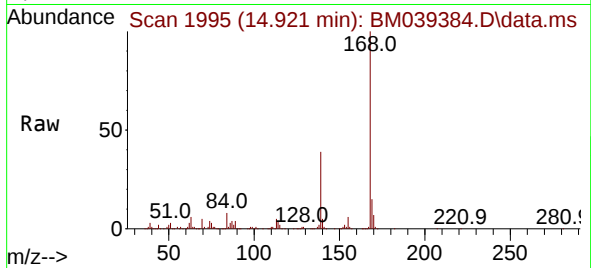




#55
Dibenzenofuran
Concen: 6.837 ng
RT: 14.921 min Scan# 1995
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

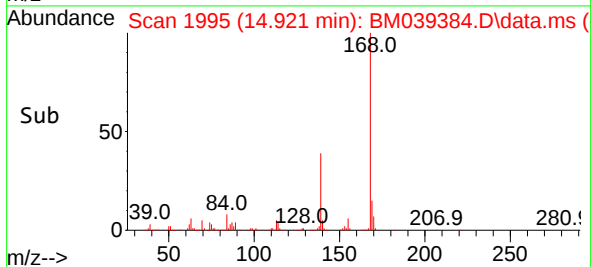
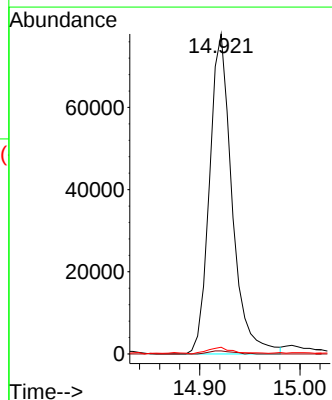
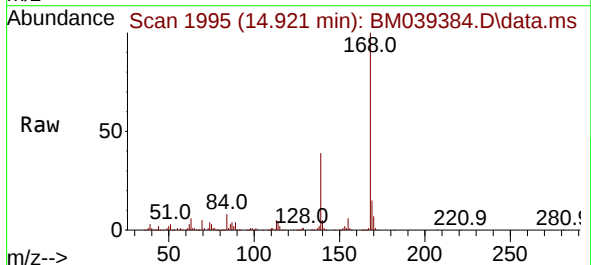
Instrument :
BNA_M
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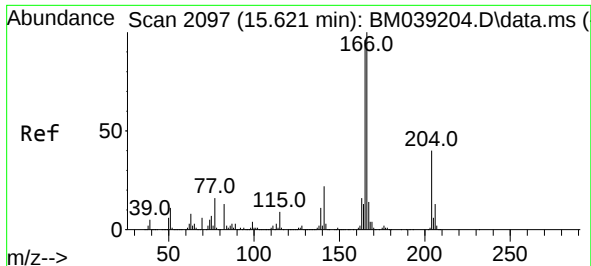
Tgt Ion:168 Resp: 331106
Ion Ratio Lower Upper
168 100
139 38.9 29.4 44.2
169 15.1 10.6 15.8



#56
4-Nitrophenol
Concen: 15.904 ng
RT: 14.921 min Scan# 1995
Delta R.T. 0.165 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:139 Resp: 121806
Ion Ratio Lower Upper
139 100
109 0.9 49.6 89.6#
65 2.1 72.9 112.9#

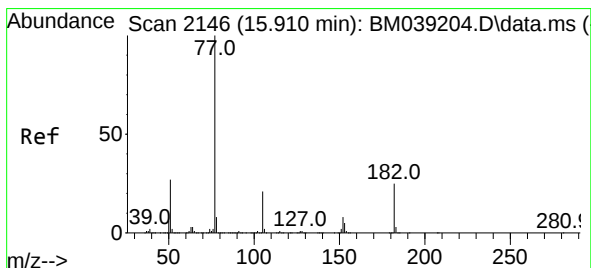
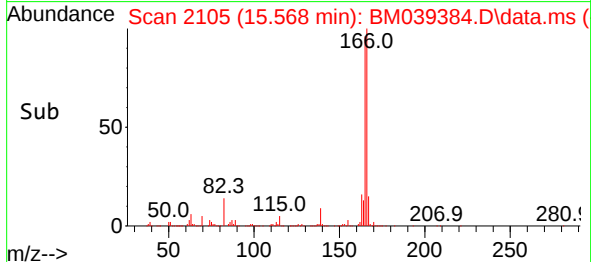
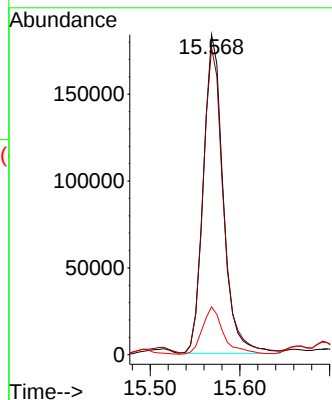
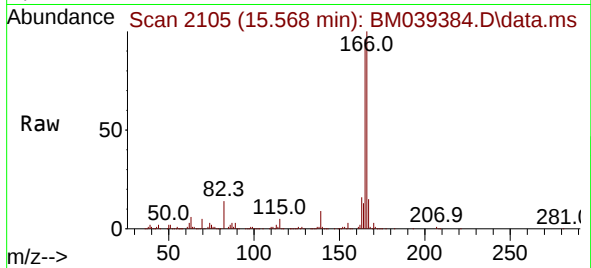




#58
Fluorene
Concen: 7.338 ng
RT: 15.568 min Scan# 2105
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

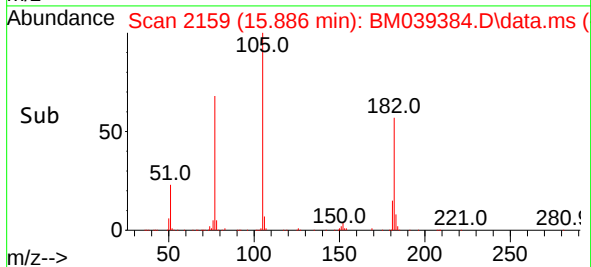
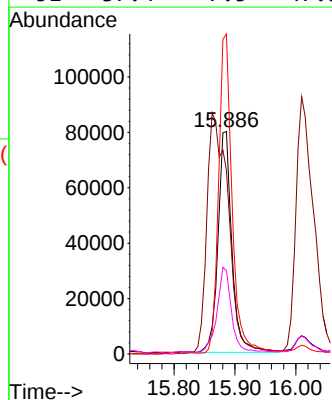
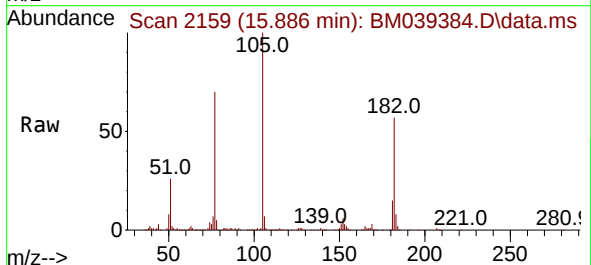
Instrument :
BNA_M
ClientSampleId :
SP-1C

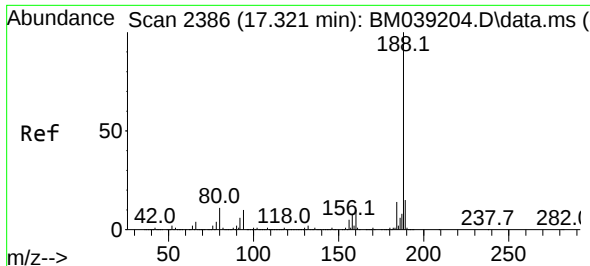
Tgt Ion:166 Resp: 281425
Ion Ratio Lower Upper
166 100
165 95.9 76.9 115.3
167 15.0 10.8 16.2



#63
Azobenzene
Concen: 3.160 ng
RT: 15.886 min Scan# 2159
Delta R.T. 0.029 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion: 77 Resp: 127305
Ion Ratio Lower Upper
77 100
182 82.6 4.8 44.8#
105 143.8 1.4 41.4#
51 37.4 7.5 47.5

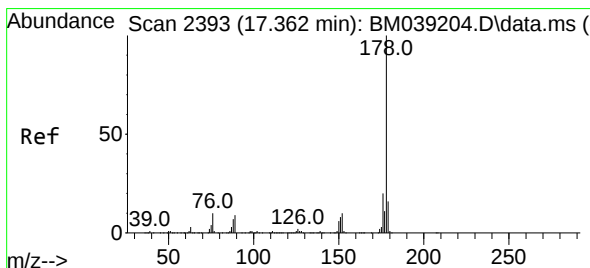
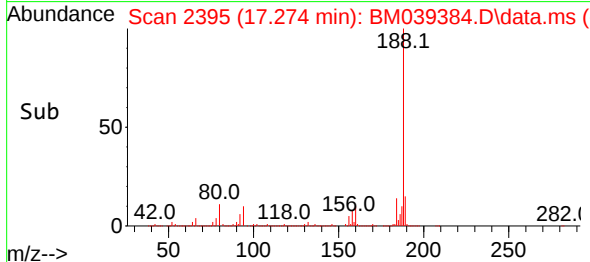
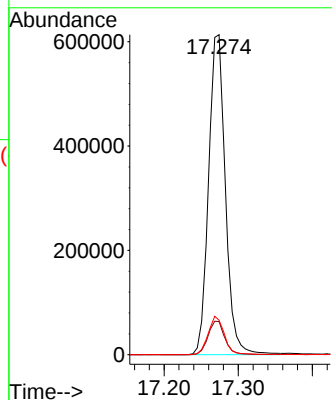
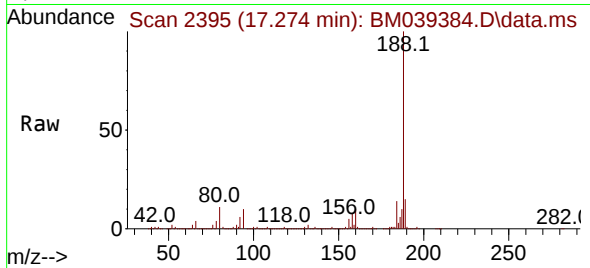




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.274 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

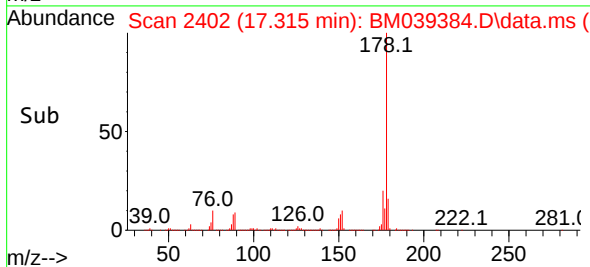
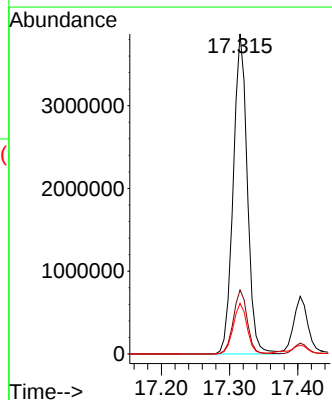
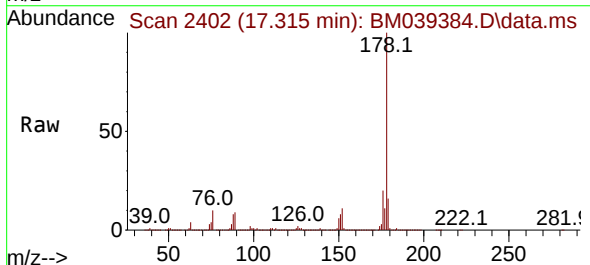
Instrument :
BNA_M
ClientSampleId :
SP-1C

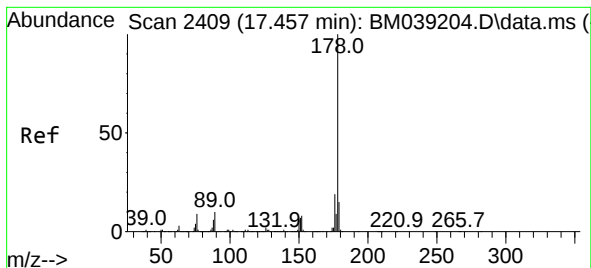
Tgt Ion:188 Resp: 967235
Ion Ratio Lower Upper
188 100
94 10.4 8.2 12.4
80 10.8 8.9 13.3



#71
Phenanthrene
Concen: 104.875 ng
RT: 17.315 min Scan# 2402
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:178 Resp: 5555665
Ion Ratio Lower Upper
178 100
176 20.0 15.7 23.5
179 15.8 12.4 18.6





#72

Anthracene

Concen: 19.311 ng

RT: 17.404 min Scan# 2417

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

SP-1C

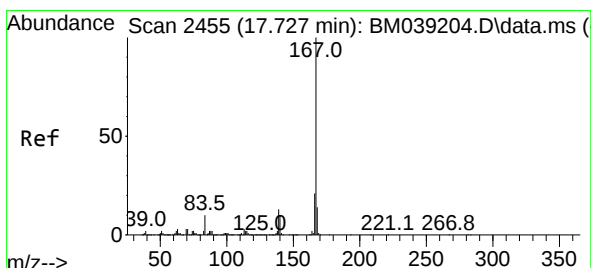
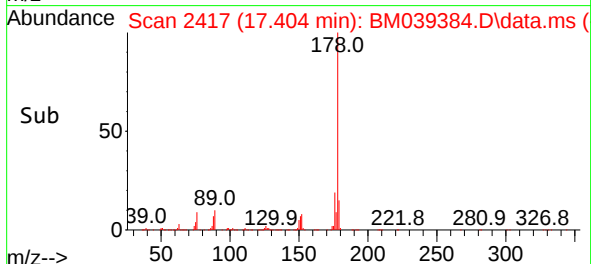
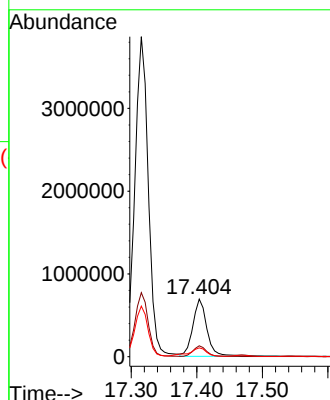
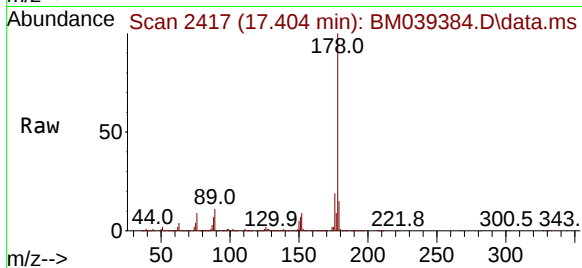
Tgt Ion:178 Resp: 1043092

Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

179 15.4 12.2 18.2



#73

Carbazole

Concen: 9.199 ng

RT: 17.680 min Scan# 2464

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

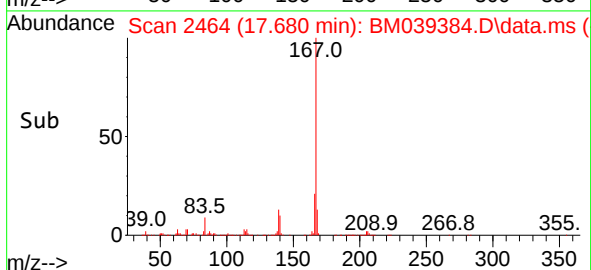
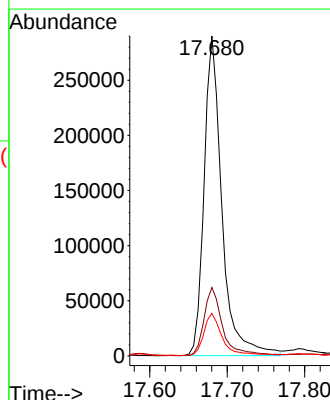
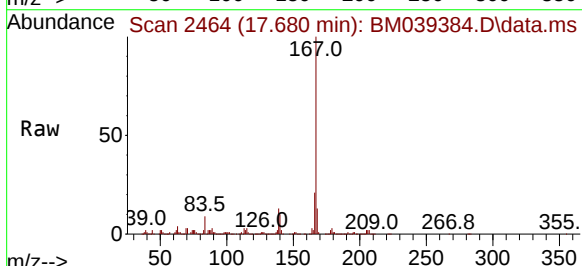
Tgt Ion:167 Resp: 464329

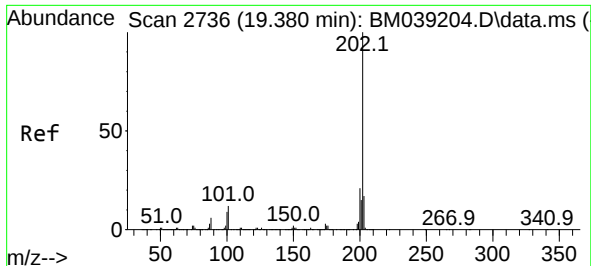
Ion Ratio Lower Upper

167 100

166 21.4 17.2 25.8

139 13.3 10.6 16.0

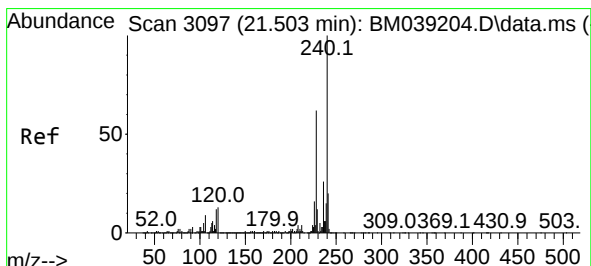
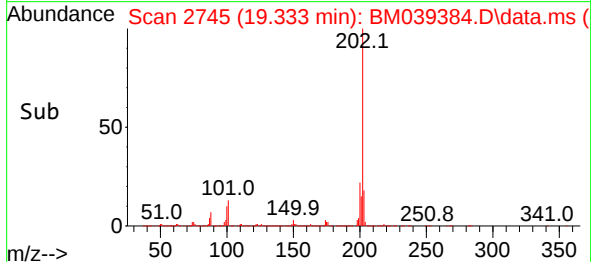
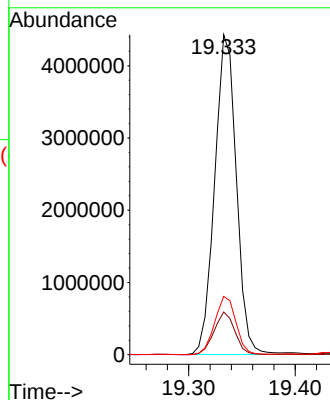
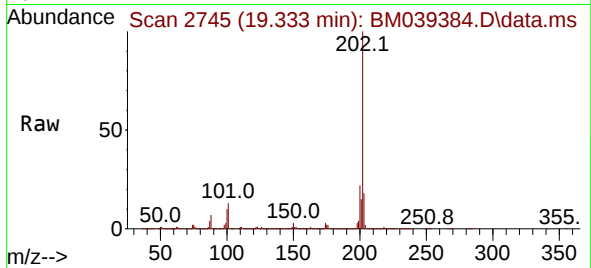




#75
Fluoranthene
Concen: 103.696 ng
RT: 19.333 min Scan# 21
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

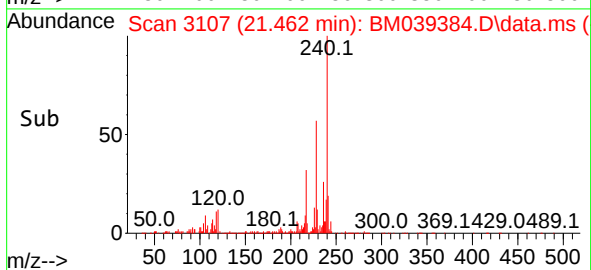
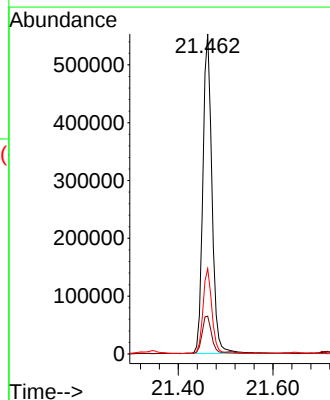
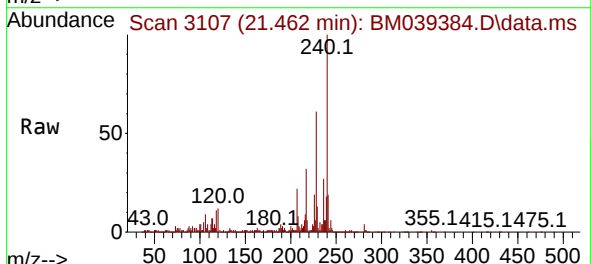
Instrument :
BNA_M
ClientSampleId :
SP-1C

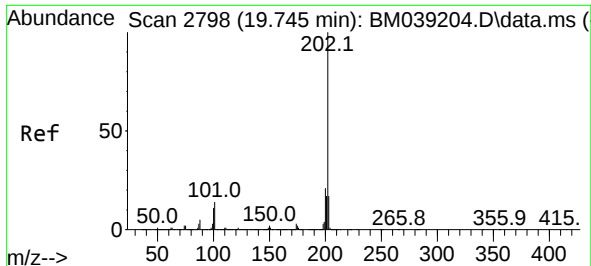
Tgt Ion:202 Resp: 6261793
Ion Ratio Lower Upper
202 100
101 13.4 0.0 32.5
203 18.2 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3107
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:240 Resp: 736624
Ion Ratio Lower Upper
240 100
120 11.8 10.2 15.2
236 26.7 20.9 31.3

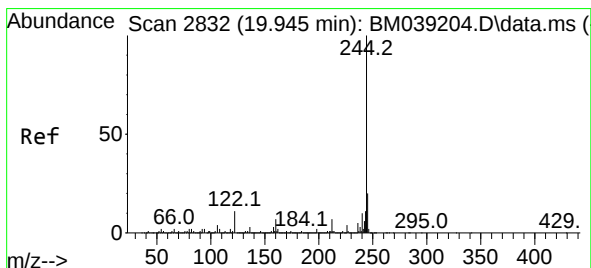
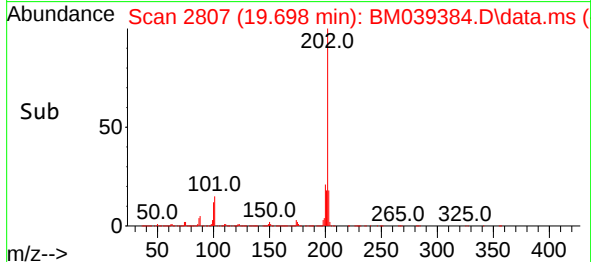
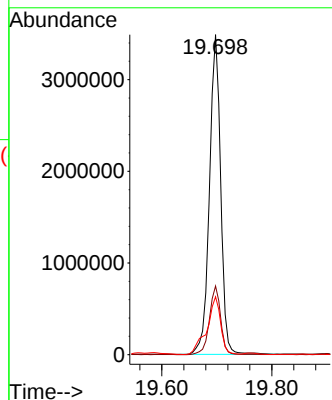
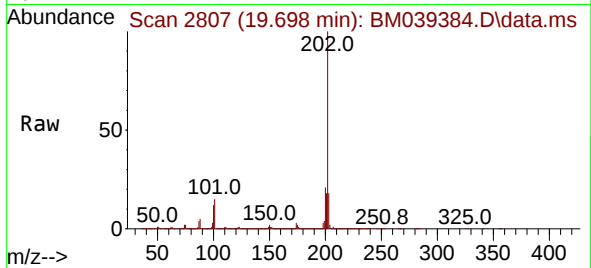




#78
Pyrene
Concen: 94.222 ng
RT: 19.698 min Scan# 2807
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

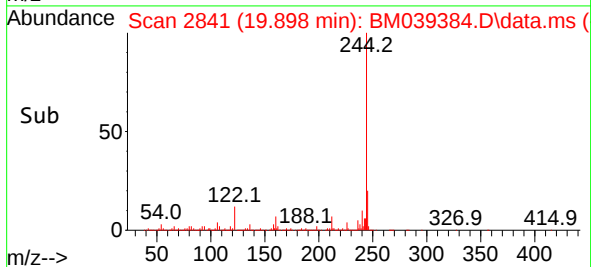
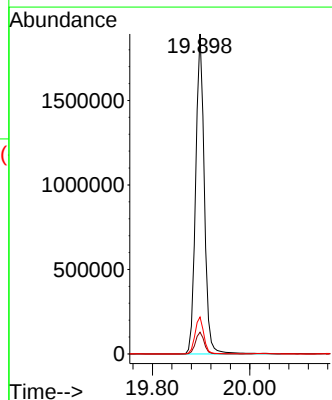
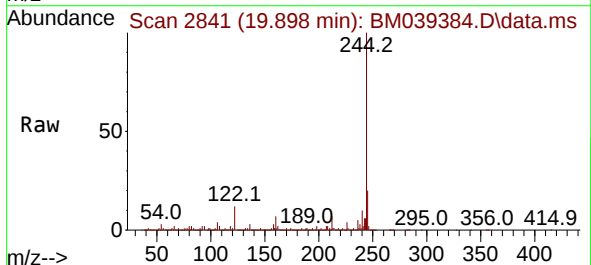
Instrument :
BNA_M
ClientSampleId :
SP-1C

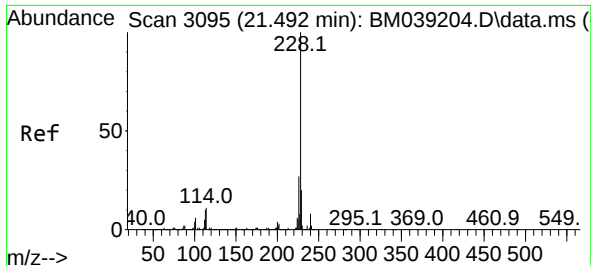
Tgt Ion:202 Resp: 4940965
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 18.1 13.9 20.9



#79
Terphenyl-d14
Concen: 58.871 ng
RT: 19.898 min Scan# 2841
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:244 Resp: 2347202
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 11.6 9.1 13.7

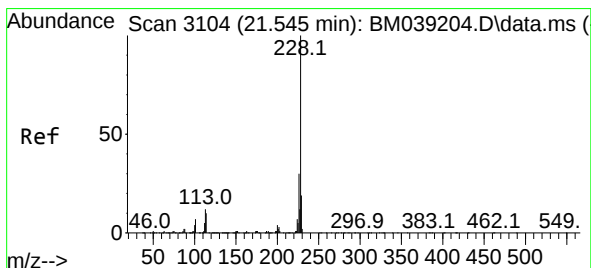
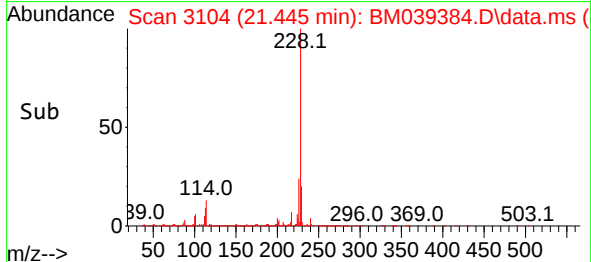
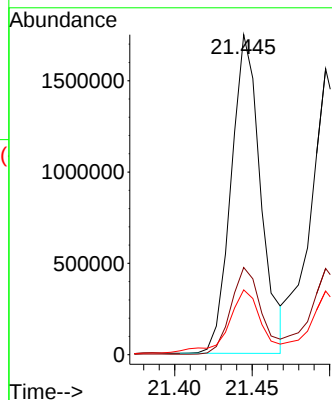
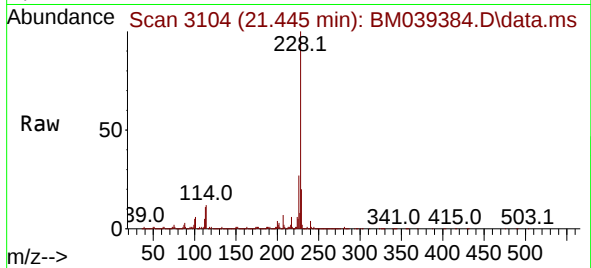




#81
Benzo(a)anthracene
Concen: 44.538 ng
RT: 21.445 min Scan# 3113
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

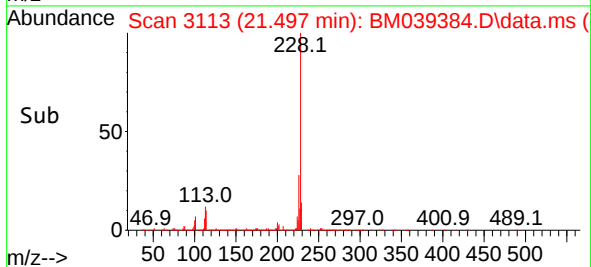
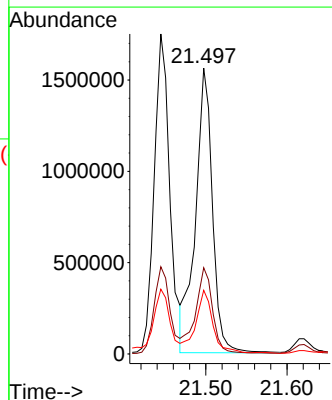
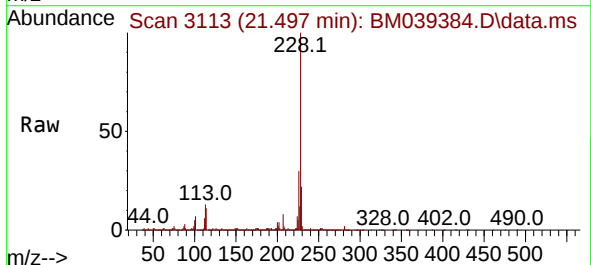
Instrument :
BNA_M
ClientSampleId :
SP-1C

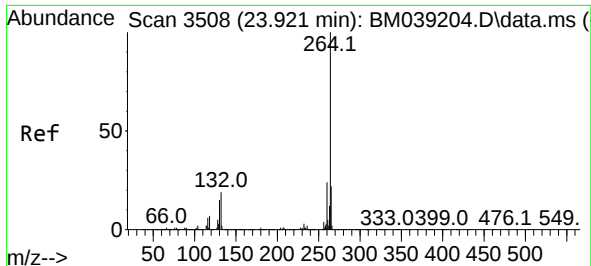
Tgt Ion:228 Resp: 2313827
Ion Ratio Lower Upper
228 100
226 27.2 21.9 32.9
229 20.3 15.8 23.6



#83
Chrysene
Concen: 45.328 ng
RT: 21.497 min Scan# 3113
Delta R.T. -0.000 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:228 Resp: 2273287
Ion Ratio Lower Upper
228 100
226 30.2 24.1 36.1
229 22.3 15.5 23.3

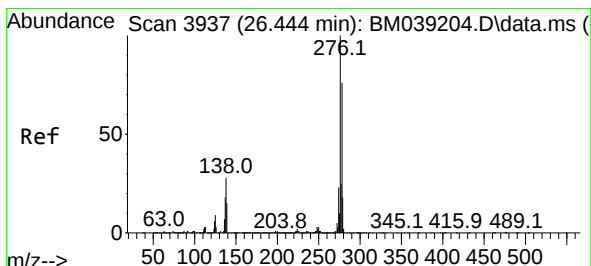
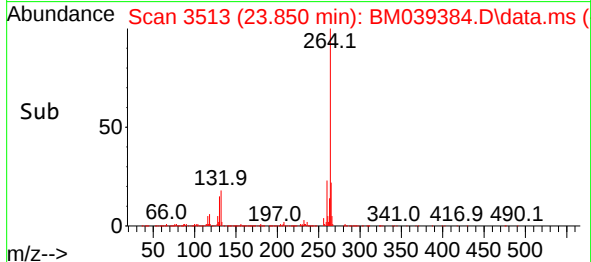
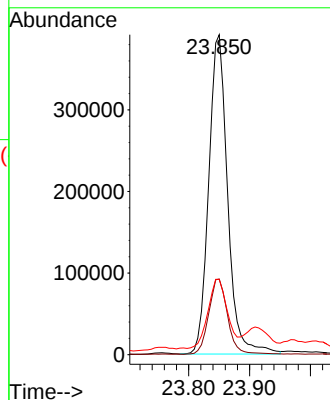
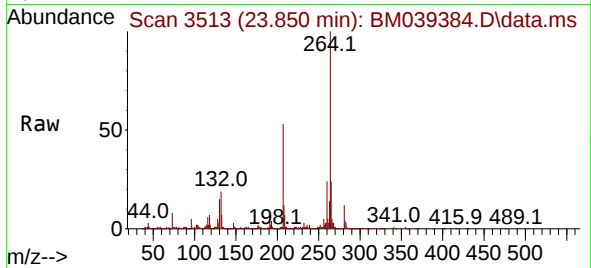




#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.850 min Scan# 3513
 Delta R.T. 0.006 min
 Lab File: BM039384.D
 Acq: 10 Apr 2023 19:14

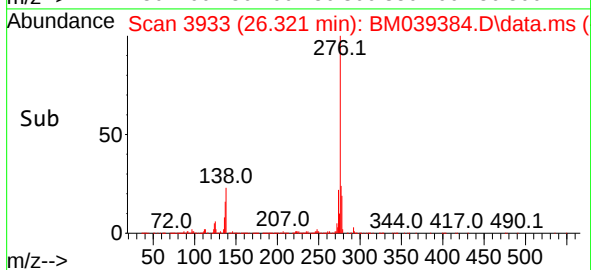
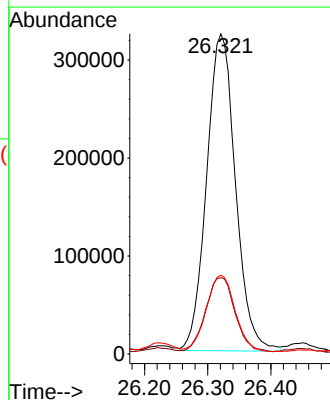
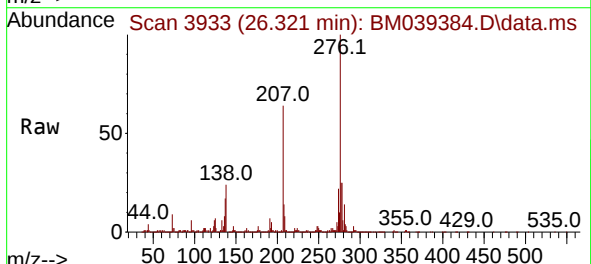
Instrument :
 BNA_M
 ClientSampleId :
 SP-1C

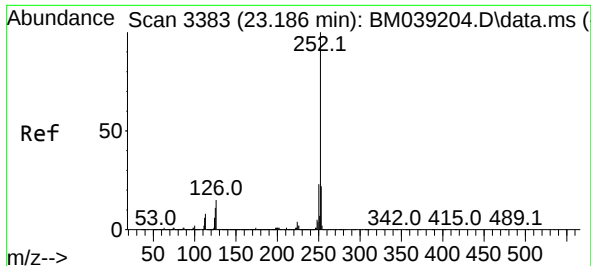
Tgt Ion:264 Resp: 843310
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.6
 265 23.5 18.1 27.1



#87
 Indeno(1,2,3-cd)pyrene
 Concen: 16.541 ng
 RT: 26.321 min Scan# 3933
 Delta R.T. -0.006 min
 Lab File: BM039384.D
 Acq: 10 Apr 2023 19:14

Tgt Ion:276 Resp: 1027805
 Ion Ratio Lower Upper
 276 100
 138 24.2 22.2 33.2
 277 24.1 20.2 30.2

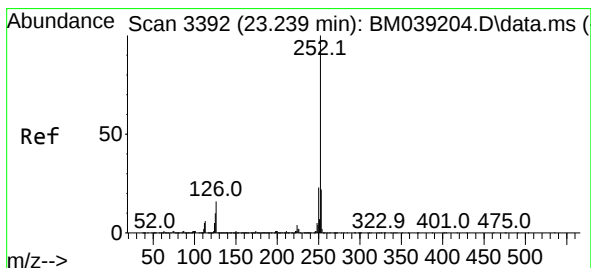
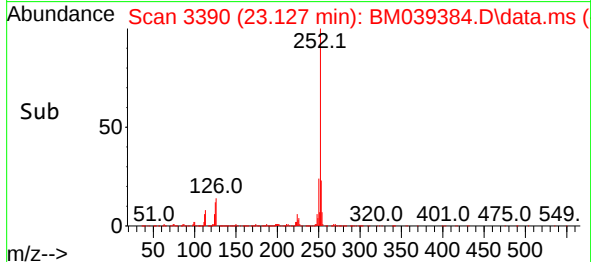
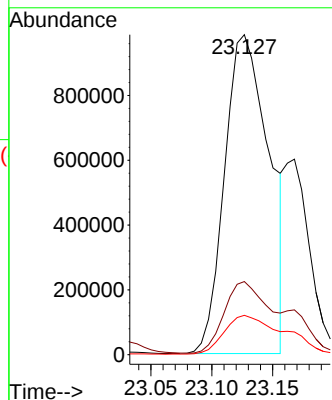
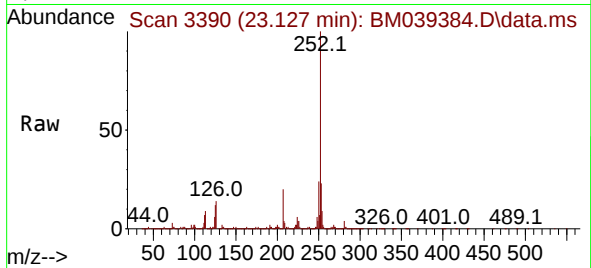




#88
Benzo(b)fluoranthene
Concen: 48.523 ng
RT: 23.127 min Scan# 3390
Delta R.T. 0.006 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

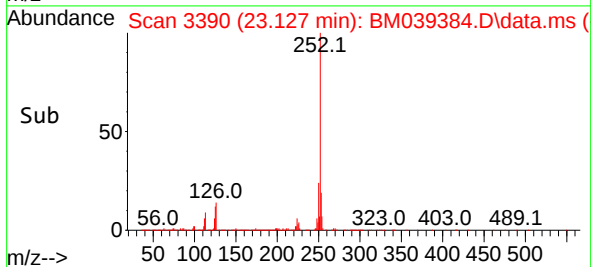
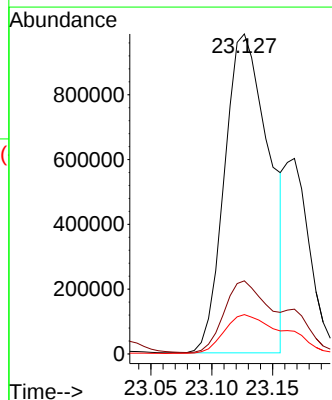
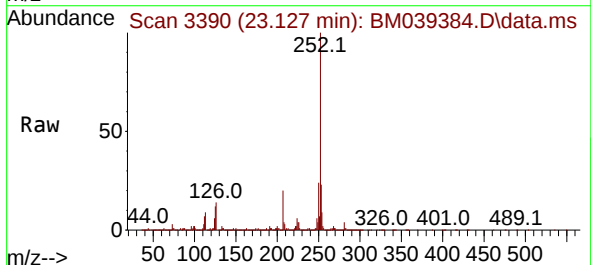
Instrument :
BNA_M
ClientSampleId :
SP-1C

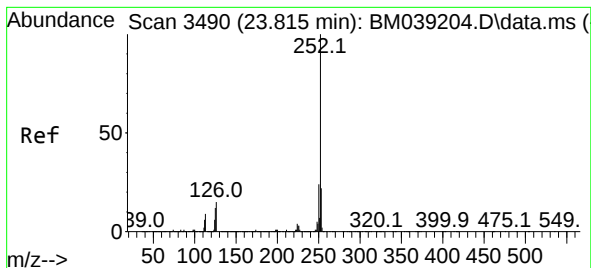
Tgt Ion:252 Resp: 2503803
Ion Ratio Lower Upper
252 100
253 22.8 17.6 26.4
125 12.3 9.0 13.6



#89
Benzo(k)fluoranthene
Concen: 47.637 ng
RT: 23.127 min Scan# 3390
Delta R.T. -0.041 min
Lab File: BM039384.D
Acq: 10 Apr 2023 19:14

Tgt Ion:252 Resp: 2503803
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 12.3 8.5 12.7





#90

Benzo(a)pyrene

Concen: 32.552 ng

RT: 23.744 min Scan# 34

Delta R.T. -0.000 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

Instrument :

BNA_M

ClientSampleId :

SP-1C

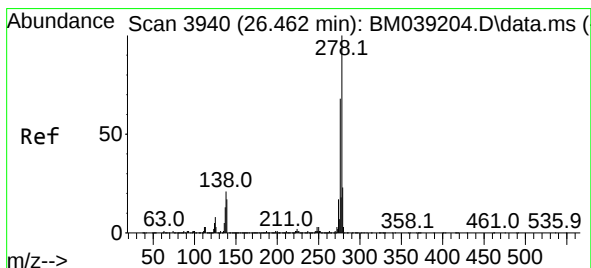
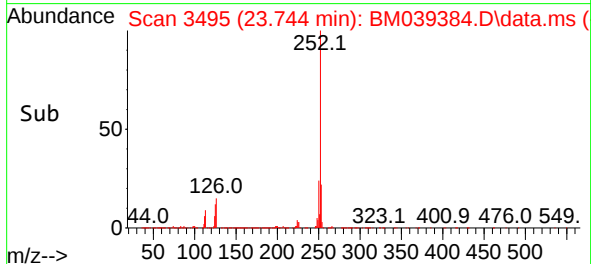
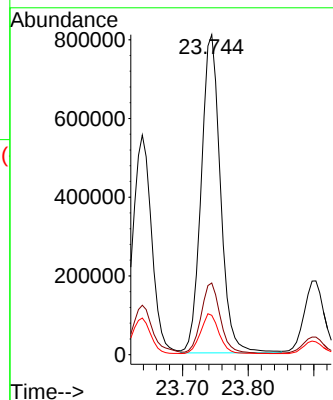
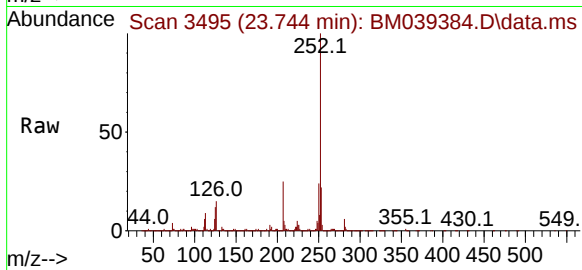
Tgt Ion:252 Resp: 1650057

Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

125 12.3 9.8 14.6



#91

Dibenzo(a,h)anthracene

Concen: 3.296 ng

RT: 26.615 min Scan# 3983

Delta R.T. 0.271 min

Lab File: BM039384.D

Acq: 10 Apr 2023 19:14

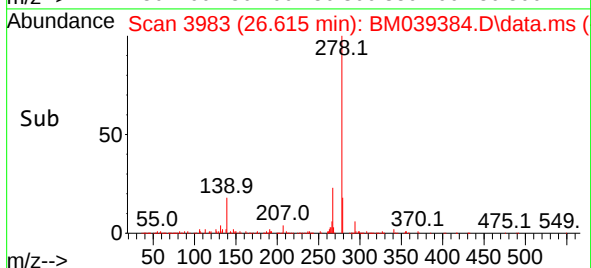
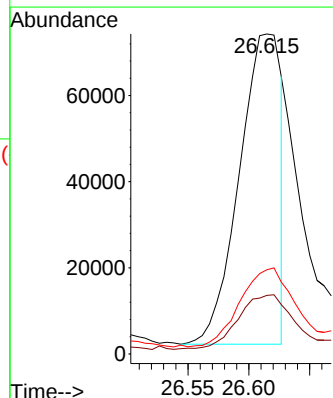
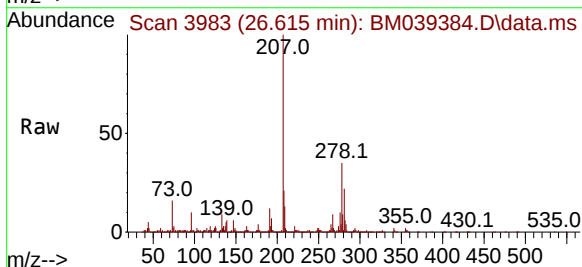
Tgt Ion:278 Resp: 171978

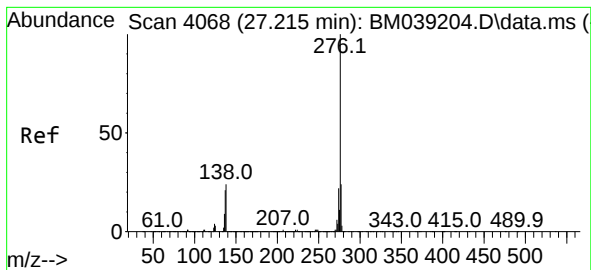
Ion Ratio Lower Upper

278 100

139 18.3 13.9 20.9

279 26.3 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 17.810 ng
 RT: 27.085 min Scan# 4063
 Delta R.T. -0.000 min
 Lab File: BM039384.D
 Acq: 10 Apr 2023 19:14

Instrument :
 BNA_M
 ClientSampleId :
 SP-1C

Tgt Ion:276 Resp: 913810
 Ion Ratio Lower Upper
 276 100
 277 24.7 19.1 28.7
 138 25.0 19.5 29.3

