

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040425\
 Data File : BM049825.D
 Acq On : 04 Apr 2025 16:01
 Operator : RC/JU
 Sample : Q1698-01DL 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-9DL

Quant Time: Apr 04 16:51:17 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 13 14:55:34 2025
 Response via : Initial Calibration

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

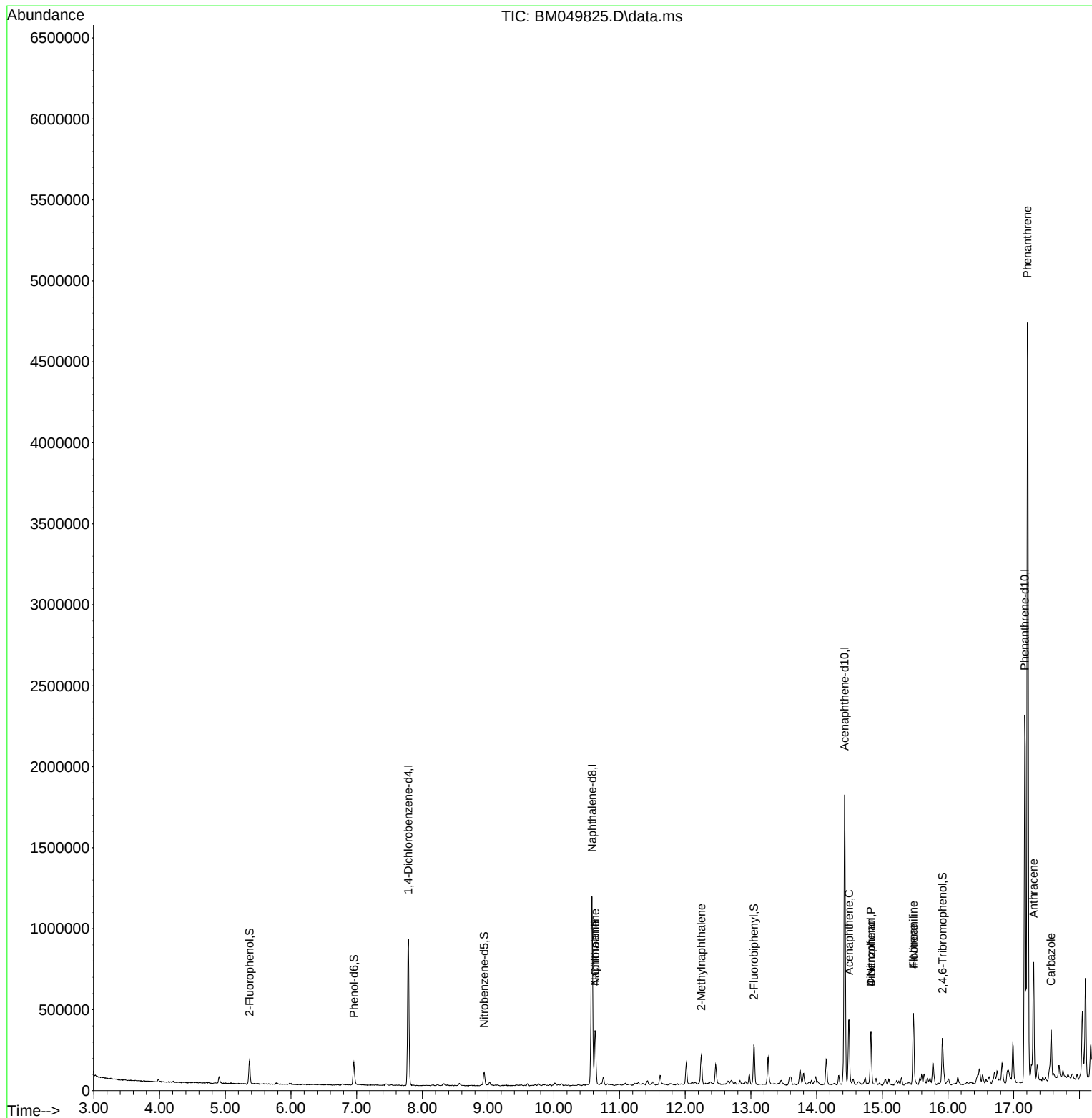
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	261430	20.000	ng	-0.02
21) Naphthalene-d8	10.580	136	943325	20.000	ng	-0.02
39) Acenaphthene-d10	14.427	164	644095	20.000	ng	-0.02
64) Phenanthrene-d10	17.168	188	1344834	20.000	ng	-0.02
76) Chrysene-d12	21.403	240	1405975	20.000	ng	-0.02
86) Perylene-d12	24.403	264	1484469	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	62667	4.045	ng	-0.02
7) Phenol-d6	6.957	99	82344	4.235	ng	-0.02
23) Nitrobenzene-d5	8.939	82	47492	2.585	ng	-0.02
42) 2,4,6-Tribromophenol	15.915	330	26545	3.529	ng	-0.02
45) 2-Fluorobiphenyl	13.045	172	131766	2.562	ng	-0.02
79) Terphenyl-d14	19.792	244	203629	2.441	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	10.628	128	276759	5.706	ng	98
33) 4-Chloroaniline	10.628	127	35746	2.159	ng	# 33
37) 2-Methylnaphthalene	12.245	142	81602	2.406	ng	99
52) Acenaphthene	14.492	154	147356	4.159	ng	98
55) Dibenzofuran	14.827	168	203870	3.454	ng	98
56) 4-Nitrophenol	14.827	139	68901	9.361	ng	# 8
58) Fluorene	15.474	166	191234	3.979	ng	98
62) 4-Nitroaniline	15.474	138	2314	3.969	ng	# 26
71) Phenanthrene	17.209	178	2878489	38.547	ng	100
72) Anthracene	17.304	178	477019	6.596	ng	99
73) Carbazole	17.568	167	191124	2.918	ng	99
75) Fluoranthene	19.227	202	3059549	35.587	ng	99
78) Pyrene	19.586	202	2757781	28.075	ng	99
81) Benzo(a)anthracene	21.386	228	1080182	11.502	ng	98
83) Chrysene	21.444	228	919667	10.331	ng	97
87) Indeno(1,2,3-cd)pyrene	27.779	276	528308	4.945	ng	97
88) Benzo(b)fluoranthene	23.456	252	1077547	10.777	ng	# 98
89) Benzo(k)fluoranthene	23.456	252	1077547	10.953	ng	98
90) Benzo(a)pyrene	24.262	252	864280	10.291	ng	98
92) Benzo(g,h,i)perylene	28.826	276	529070	5.900	ng	98

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

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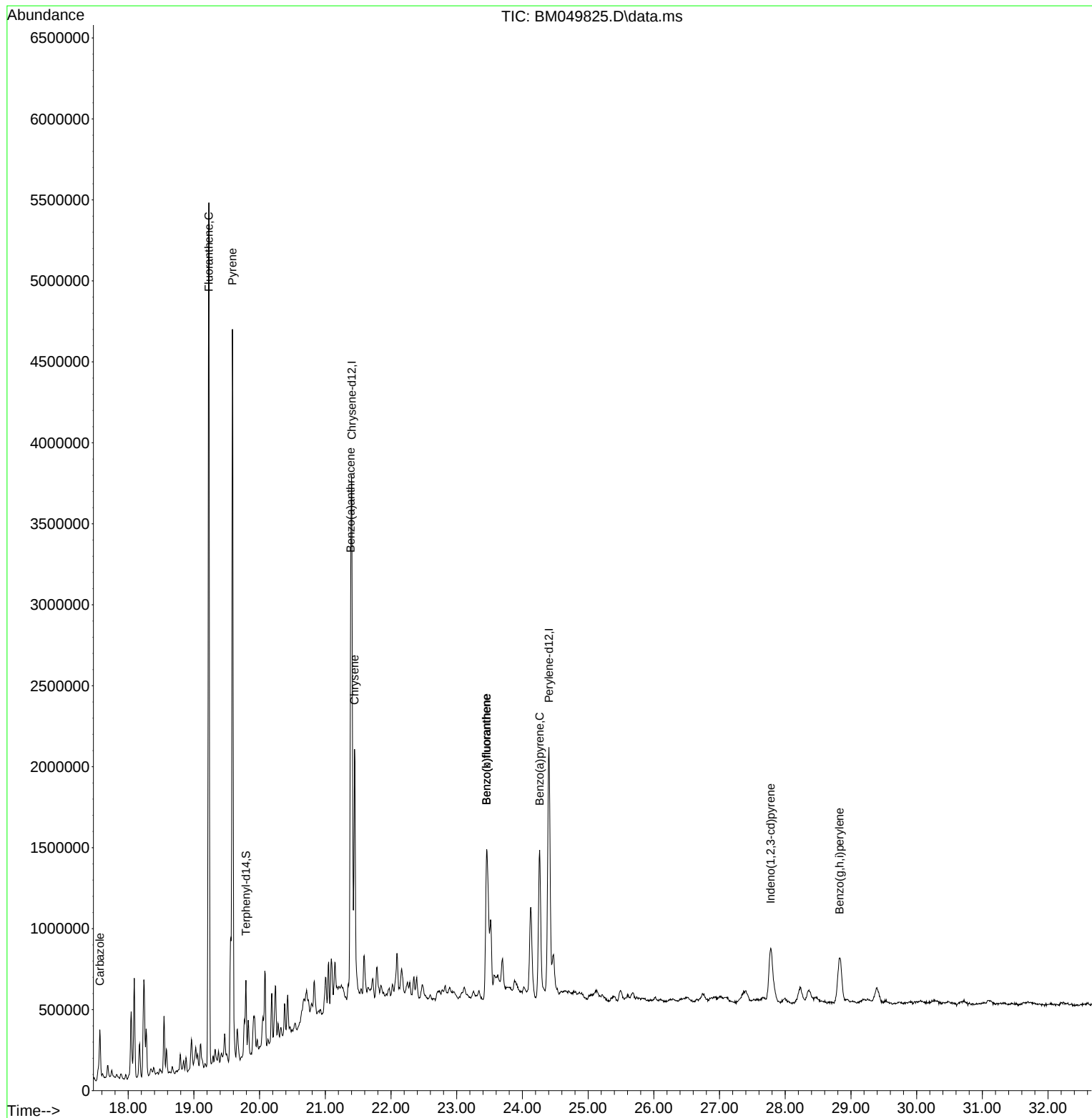
Quant Time: Apr 04 16:51:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 13 14:55:34 2025
Response via : Initial Calibration

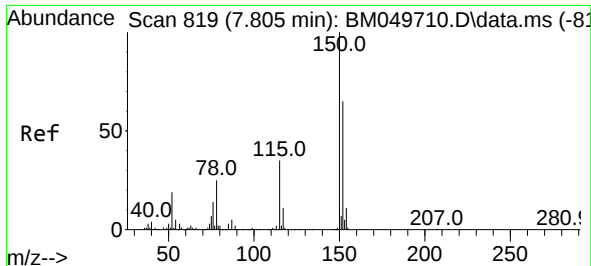


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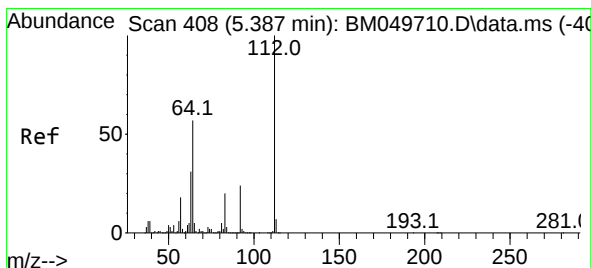
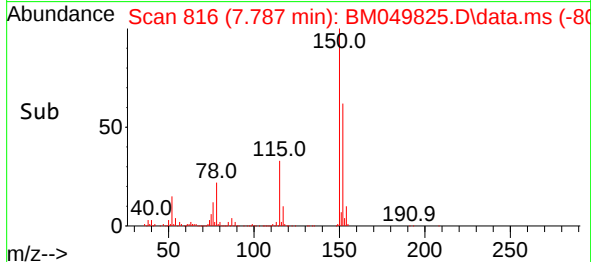
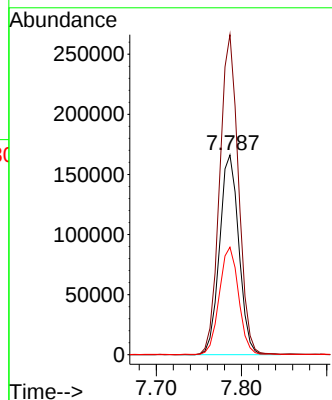
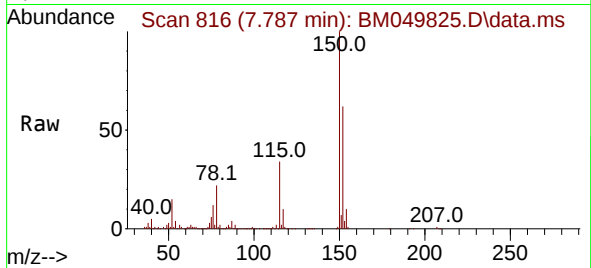




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 819
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

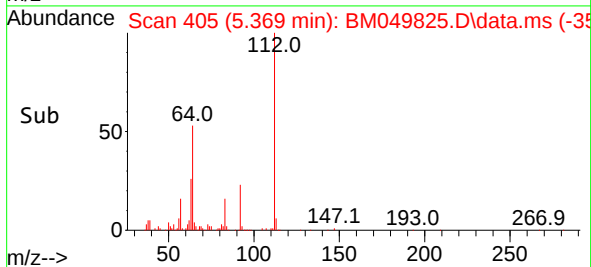
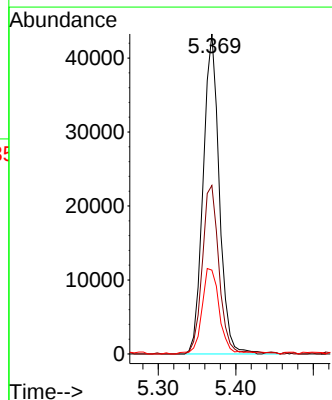
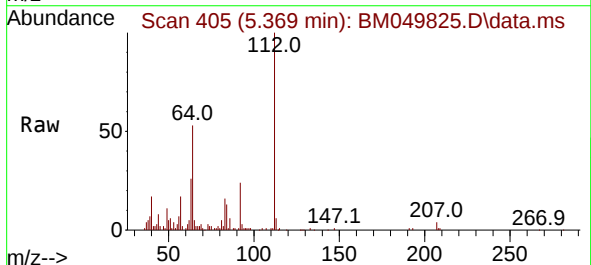
Instrument :
BNA_M
ClientSampleId :
B-9DL

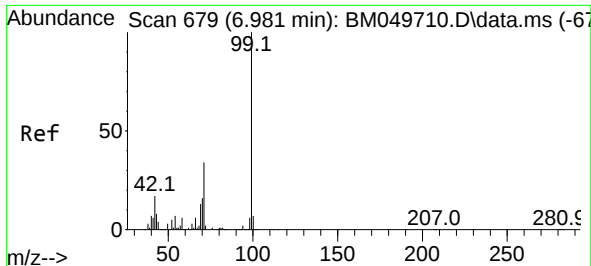
Tgt Ion:152 Resp: 261430
Ion Ratio Lower Upper
152 100
150 160.2 123.8 185.8
115 53.8 43.0 64.6



#5
2-Fluorophenol
Concen: 4.045 ng
RT: 5.369 min Scan# 405
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:112 Resp: 62667
Ion Ratio Lower Upper
112 100
64 52.7 45.3 67.9
63 26.2 24.4 36.6

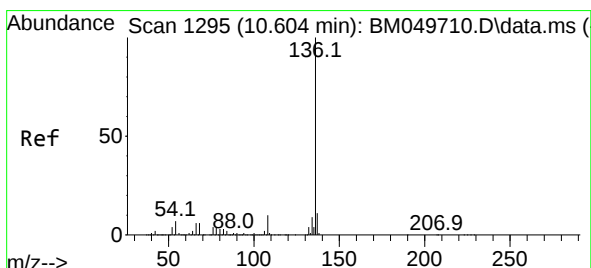
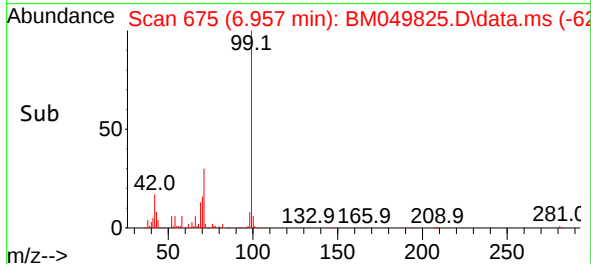
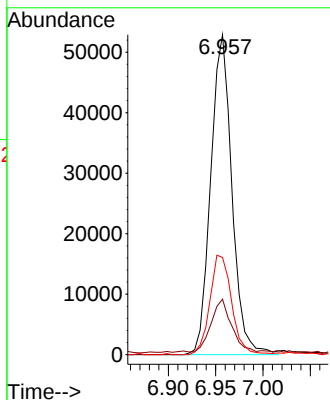
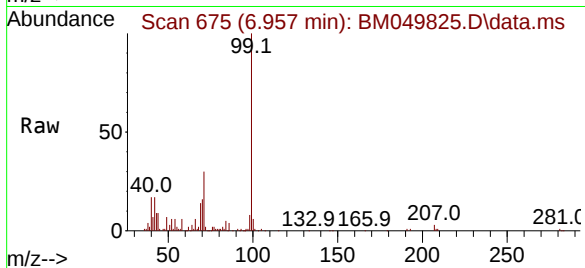




#7
Phenol-d6
Concen: 4.235 ng
RT: 6.957 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

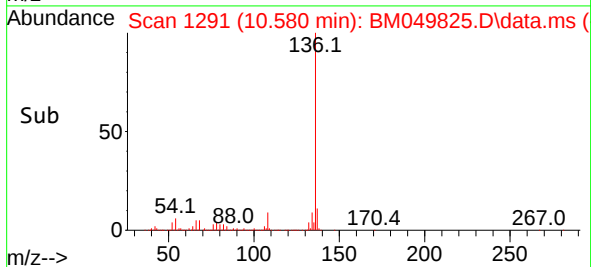
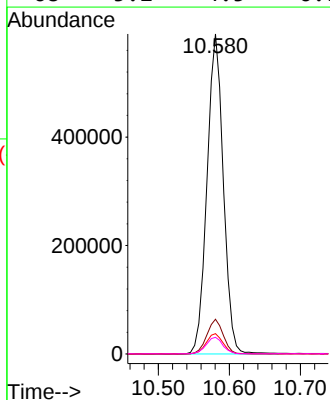
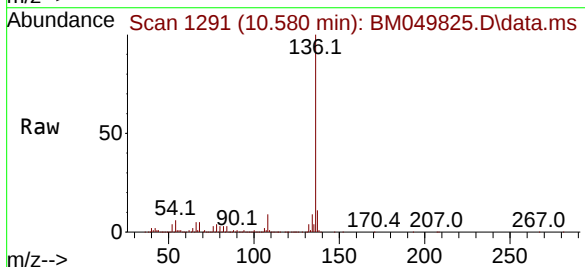
Instrument :
BNA_M
ClientSampleId :
B-9DL

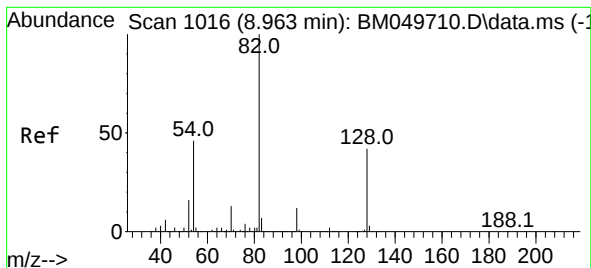
Tgt Ion:	99	Resp:	82344
Ion	Ratio	Lower	Upper
99	100		
42	17.3	13.6	20.4
71	30.4	27.0	40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.580 min Scan# 1291
Delta R.T. -0.024 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:	136	Resp:	943325
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	6.4	5.8	8.8
68	5.2	4.5	6.7





#23

Nitrobenzene-d5

Concen: 2.585 ng

RT: 8.939 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

BNA_M

ClientSampleId :

B-9DL

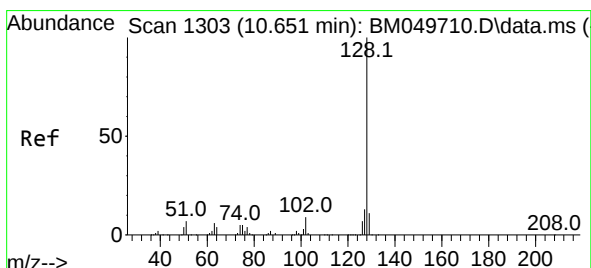
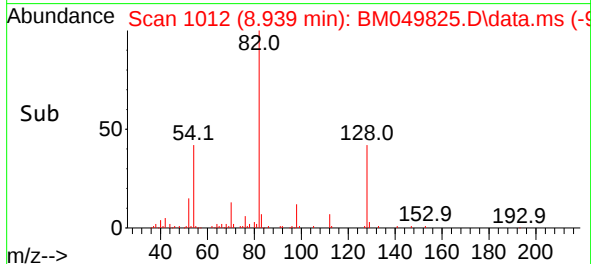
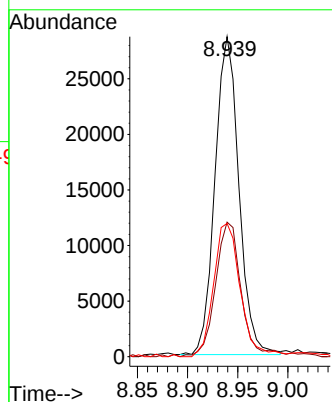
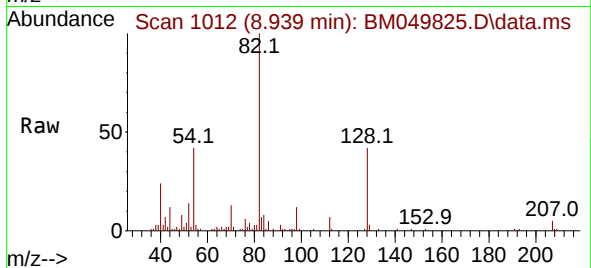
Tgt Ion: 82 Resp: 47492

Ion Ratio Lower Upper

82 100

128 42.0 33.4 50.0

54 41.7 36.4 54.6



#31

Naphthalene

Concen: 5.706 ng

RT: 10.628 min Scan# 1299

Delta R.T. -0.024 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

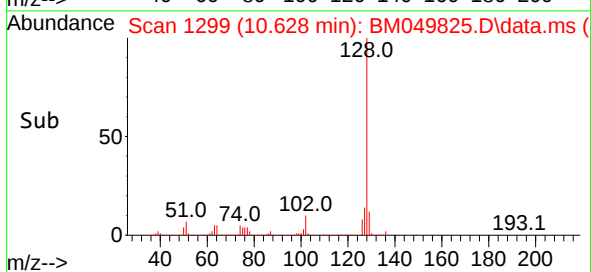
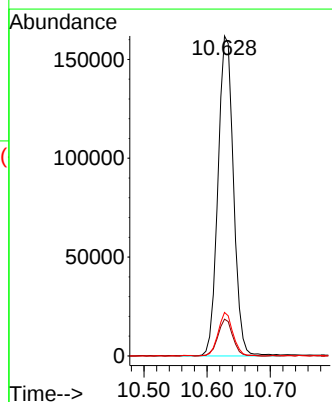
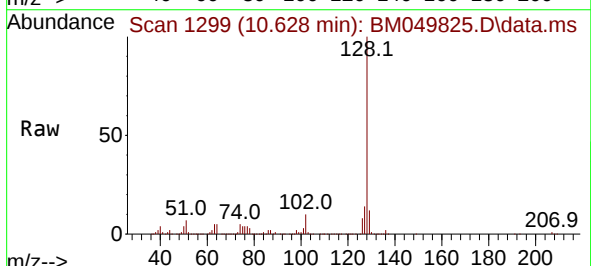
Tgt Ion: 128 Resp: 276759

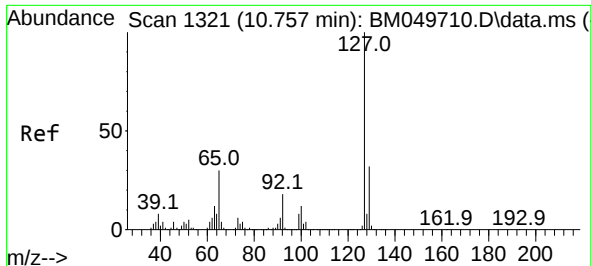
Ion Ratio Lower Upper

128 100

129 11.5 8.6 13.0

127 13.6 10.4 15.6

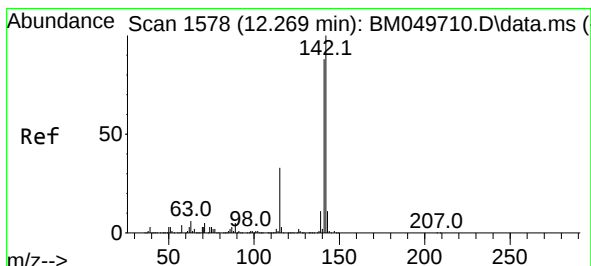
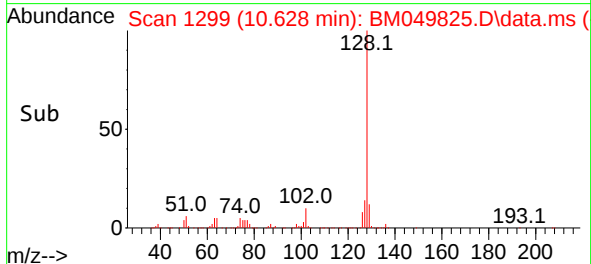
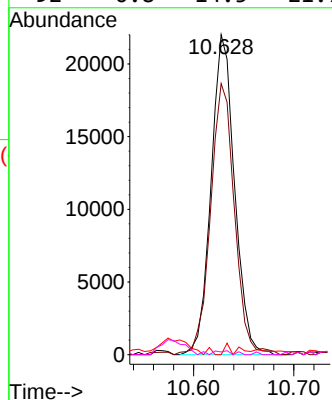
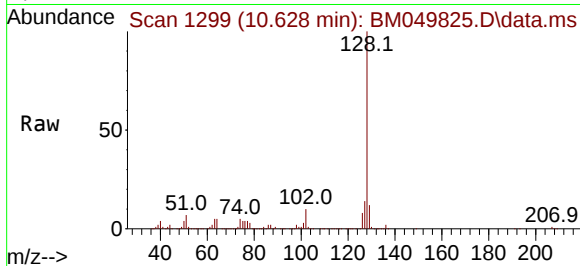




#33
4-Chloroaniline
Concen: 2.159 ng
RT: 10.628 min Scan# 11
Delta R.T. -0.130 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

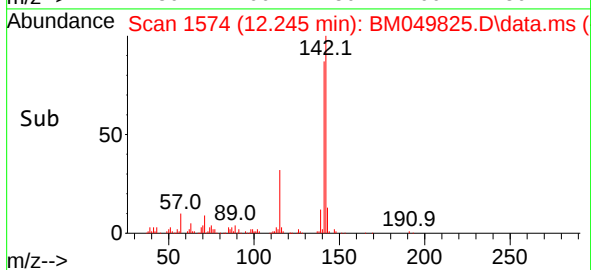
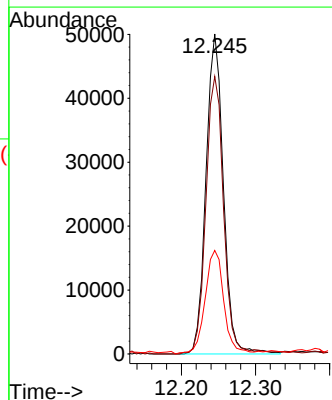
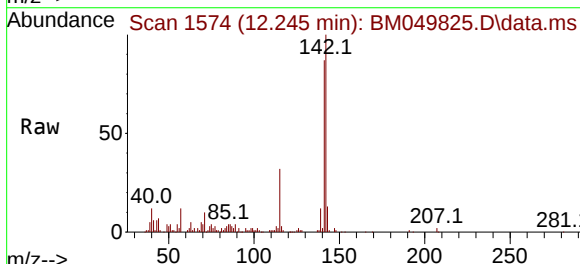
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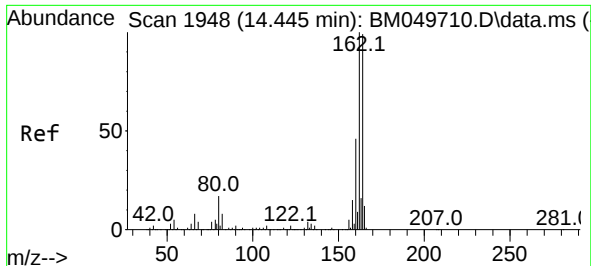
Tgt Ion:	127	Resp:	35746
Ion	Ratio	Lower	Upper
127	100		
129	84.7	25.7	38.5#
65	0.0	24.1	36.1#
92	0.8	14.5	21.7#



#37
2-Methylnaphthalene
Concen: 2.406 ng
RT: 12.245 min Scan# 1574
Delta R.T. -0.024 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:	142	Resp:	81602
Ion	Ratio	Lower	Upper
142	100		
141	86.7	70.5	105.7
115	32.3	26.5	39.7

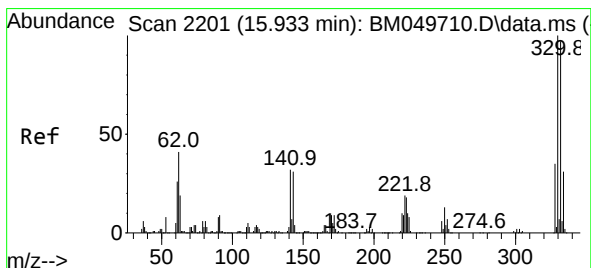
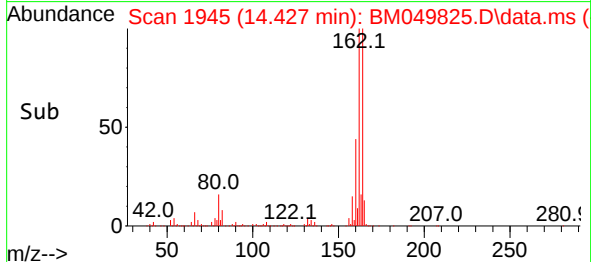
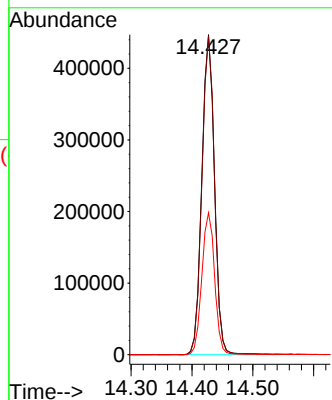
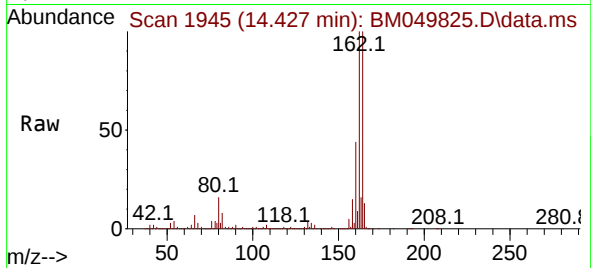




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.427 min Scan# 1945
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

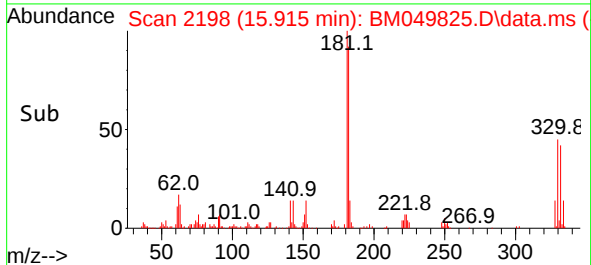
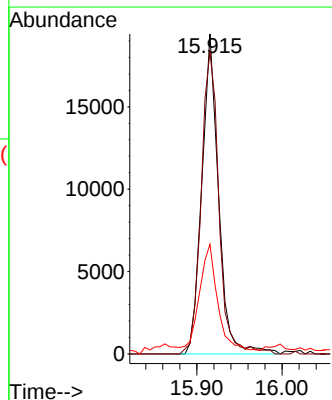
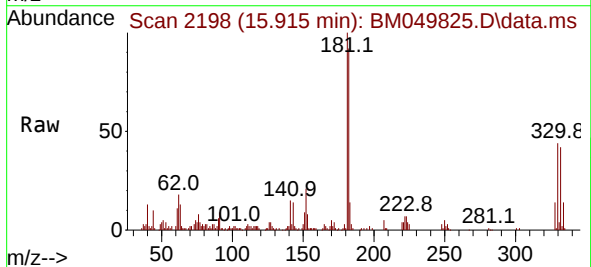
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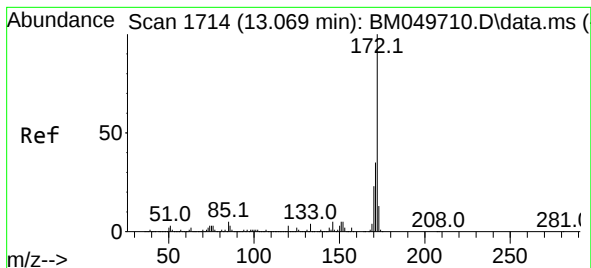
Tgt Ion:164 Resp: 644095
Ion Ratio Lower Upper
164 100
162 99.6 80.5 120.7
160 44.4 36.9 55.3



#42
2,4,6-Tribromophenol
Concen: 3.529 ng
RT: 15.915 min Scan# 2198
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:330 Resp: 26545
Ion Ratio Lower Upper
330 100
332 99.9 77.0 115.4
141 36.8 27.8 41.6





#45

2-Fluorobiphenyl

Concen: 2.562 ng

RT: 13.045 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

BNA_M

ClientSampleId :

B-9DL

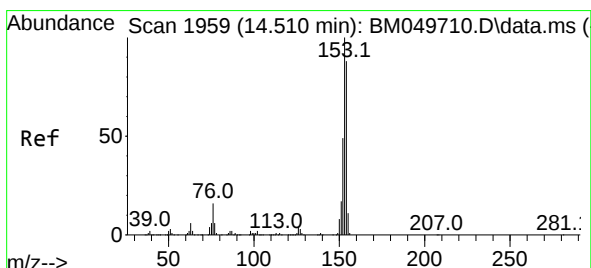
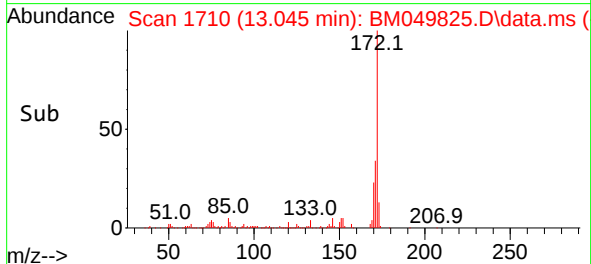
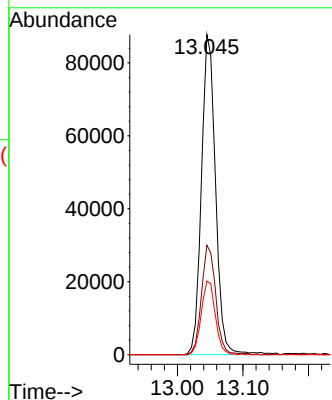
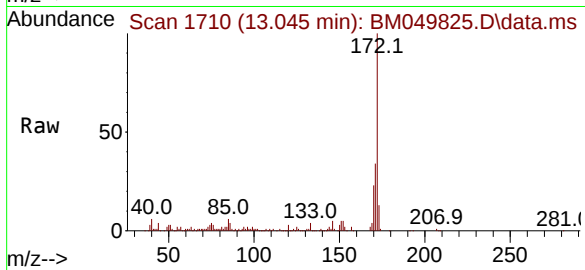
Tgt Ion:172 Resp: 131766

Ion Ratio Lower Upper

172 100

171 34.2 27.9 41.9

170 23.0 18.6 28.0



#52

Acenaphthene

Concen: 4.159 ng

RT: 14.492 min Scan# 1956

Delta R.T. -0.018 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

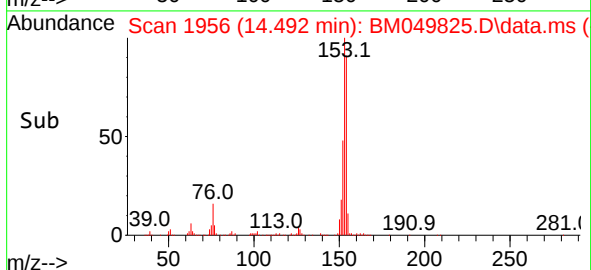
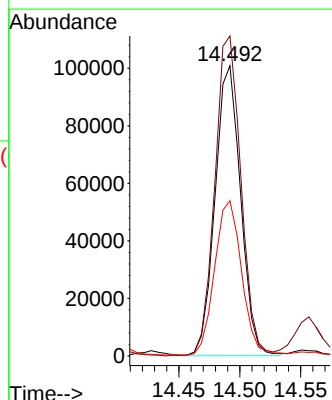
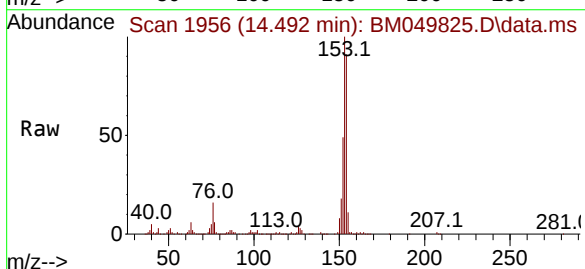
Tgt Ion:154 Resp: 147356

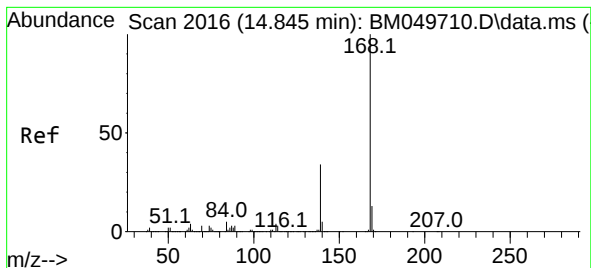
Ion Ratio Lower Upper

154 100

153 110.3 90.4 135.6

152 53.5 44.2 66.2





#55

Dibenzenofuran

Concen: 3.454 ng

RT: 14.827 min Scan# 2013

Delta R.T. -0.018 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

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ClientSampleId :

B-9DL

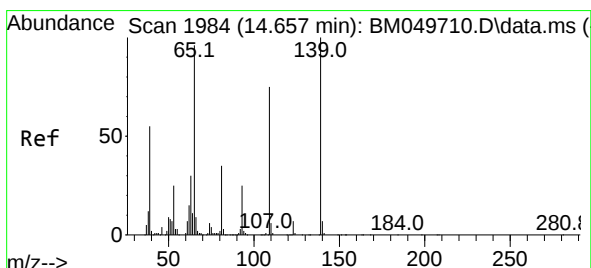
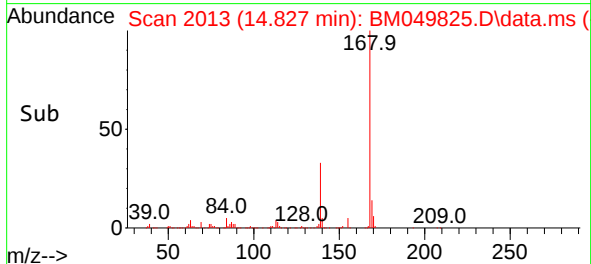
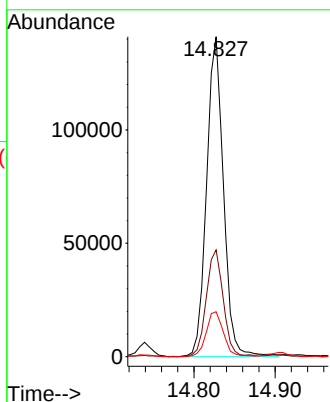
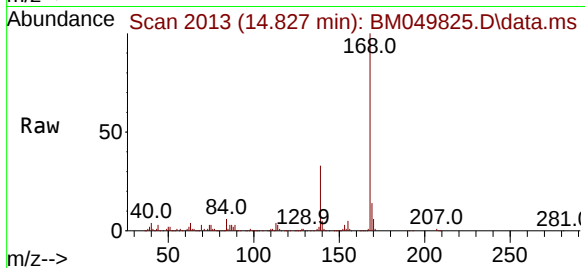
Tgt Ion:168 Resp: 203870

Ion Ratio Lower Upper

168 100

139 33.3 27.4 41.0

169 14.1 10.7 16.1



#56

4-Nitrophenol

Concen: 9.361 ng

RT: 14.827 min Scan# 2013

Delta R.T. 0.170 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

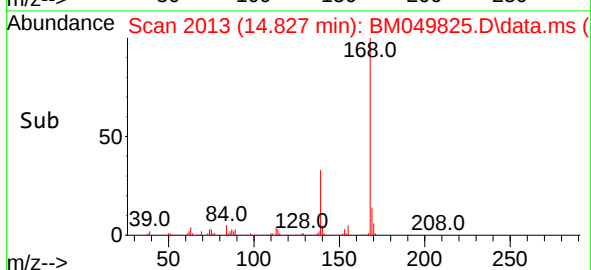
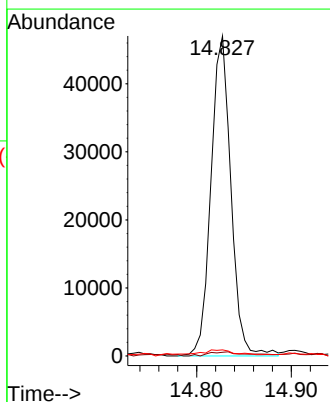
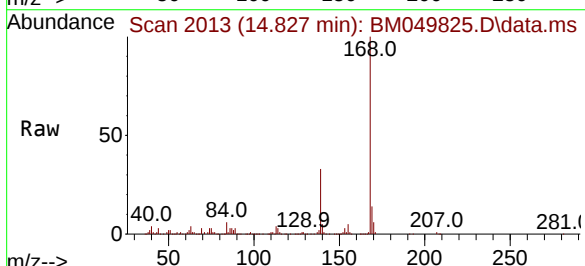
Tgt Ion:139 Resp: 68901

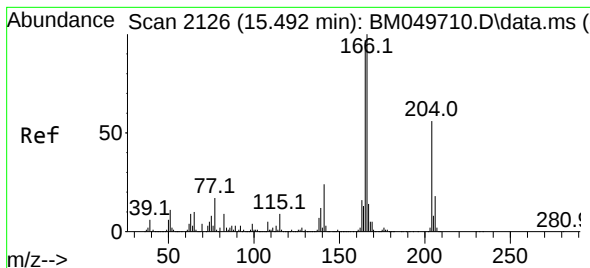
Ion Ratio Lower Upper

139 100

109 1.2 54.7 94.7#

65 1.9 76.2 116.2#





#58

Fluorene

Concen: 3.979 ng

RT: 15.474 min Scan# 2123

Delta R.T. -0.018 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

BNA_M

ClientSampleId :

B-9DL

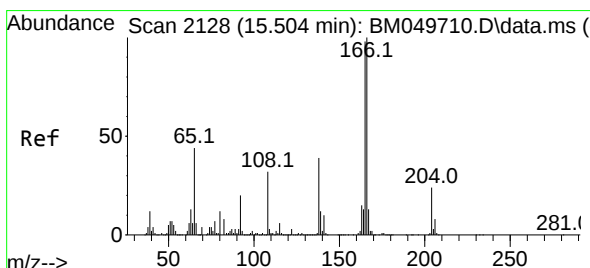
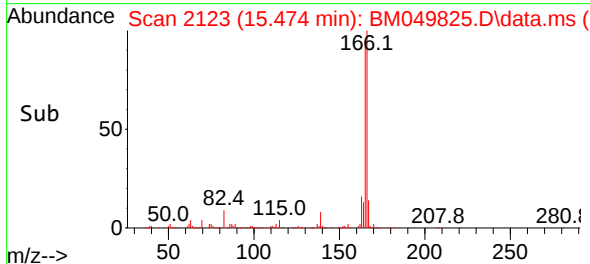
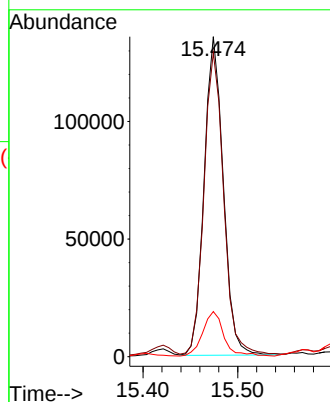
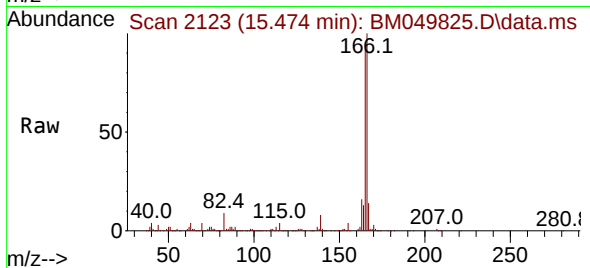
Tgt Ion:166 Resp: 191234

Ion Ratio Lower Upper

166 100

165 95.0 77.5 116.3

167 14.1 10.9 16.3



#62

4-Nitroaniline

Concen: 3.969 ng

RT: 15.474 min Scan# 2123

Delta R.T. -0.030 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

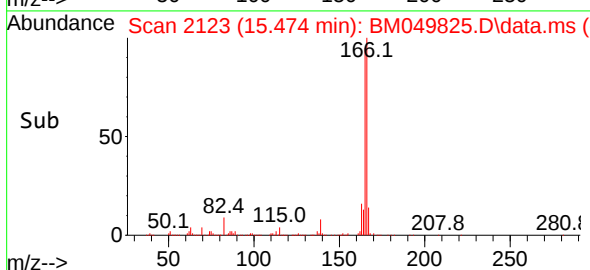
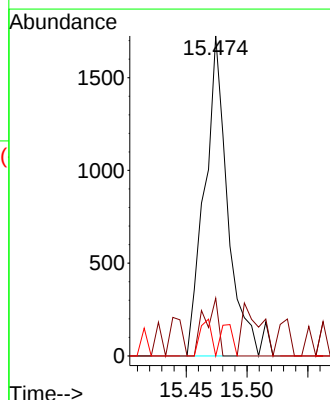
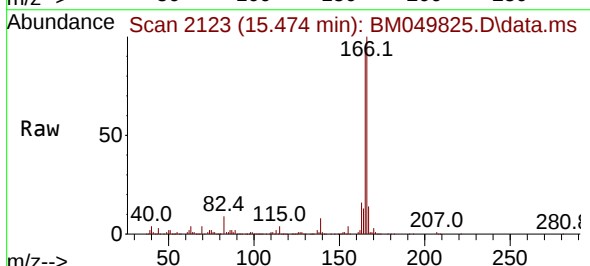
Tgt Ion:138 Resp: 2314

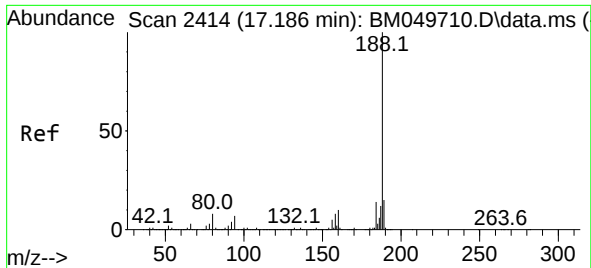
Ion Ratio Lower Upper

138 100

92 18.0 29.8 69.8#

108 0.0 61.3 101.3#

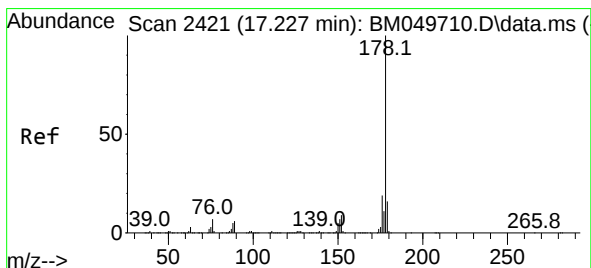
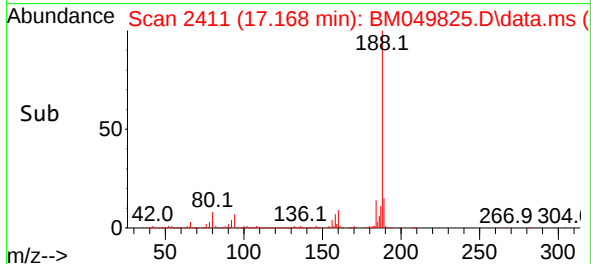
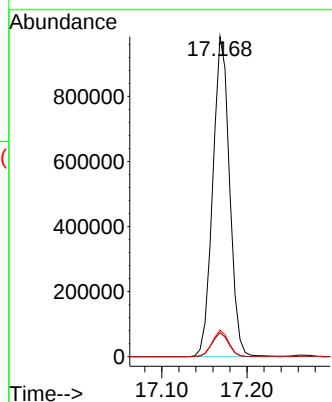
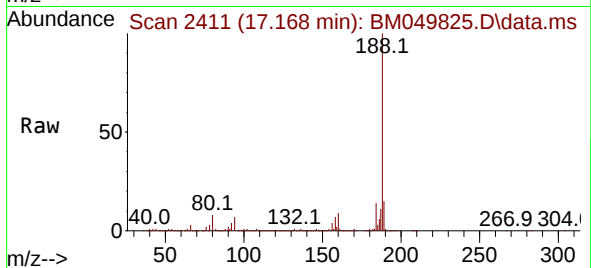




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.168 min Scan# 2414
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

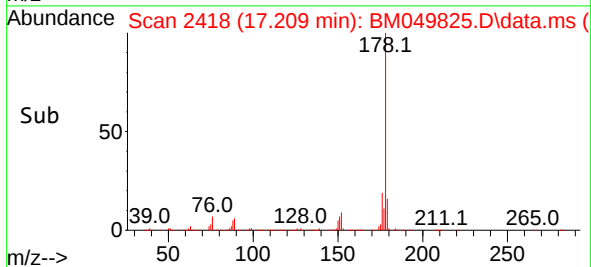
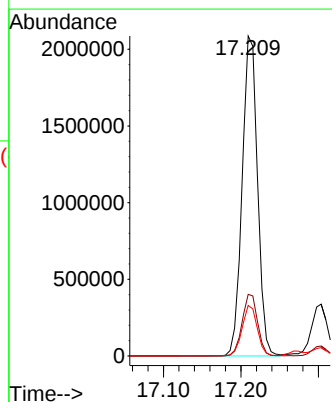
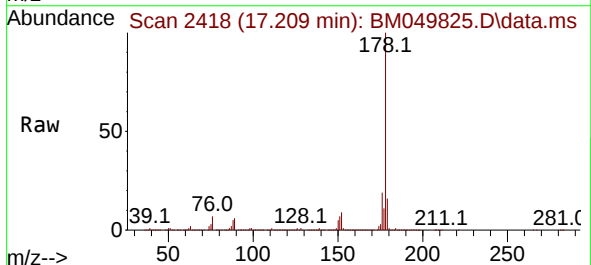
Instrument :
BNA_M
ClientSampleId :
B-9DL

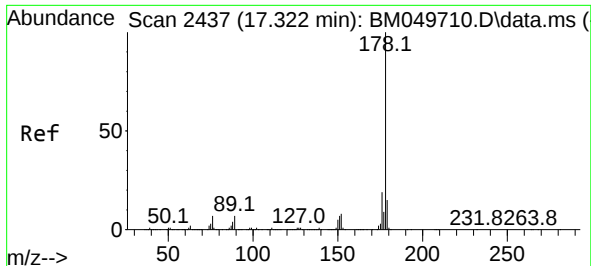
Tgt Ion:188 Resp: 1344834
Ion Ratio Lower Upper
188 100
94 7.5 5.8 8.6
80 8.3 6.3 9.5



#71
Phenanthrene
Concen: 38.547 ng
RT: 17.209 min Scan# 2418
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:178 Resp: 2878489
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.8 12.5 18.7

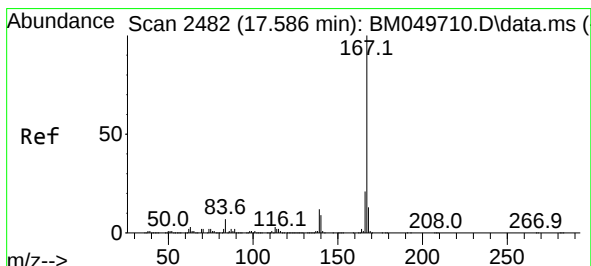
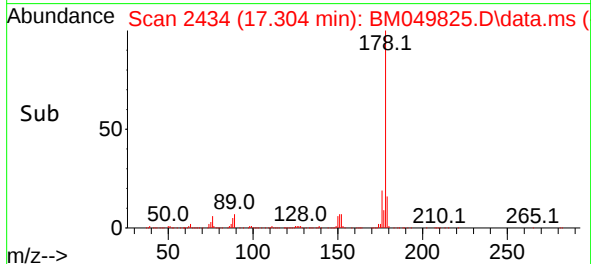
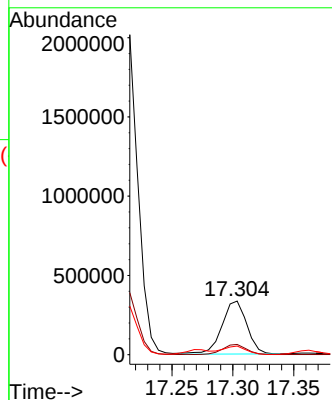
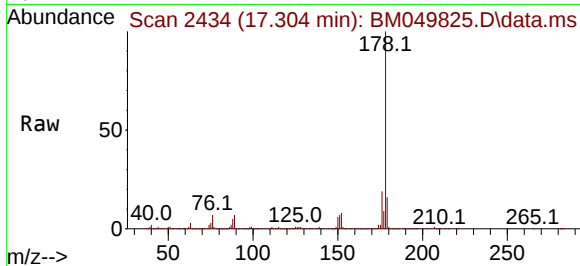




#72
 Anthracene
 Concen: 6.596 ng
 RT: 17.304 min Scan# 2434
 Delta R.T. -0.018 min
 Lab File: BM049825.D
 Acq: 04 Apr 2025 16:01

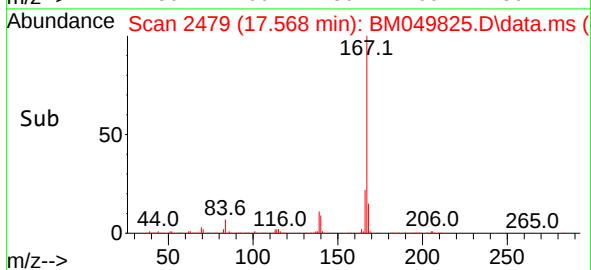
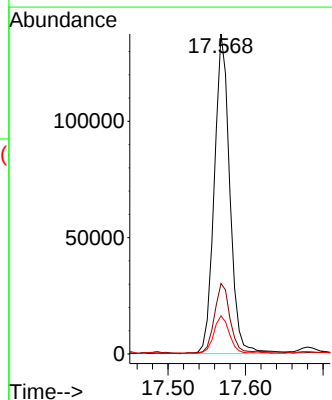
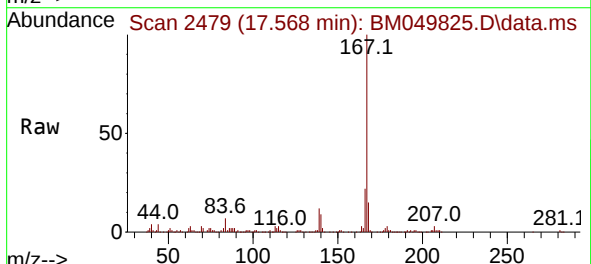
Instrument :
 BNA_M
 ClientSampleId :
 B-9DL

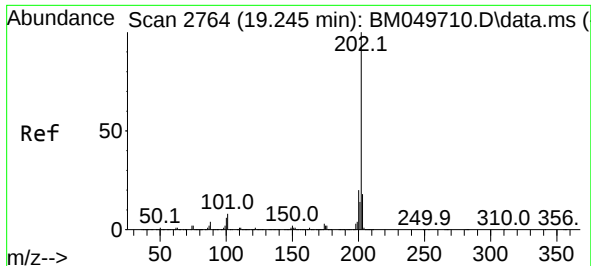
Tgt Ion:178 Resp: 477019
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.1 22.7
 179 16.0 12.4 18.6



#73
 Carbazole
 Concen: 2.918 ng
 RT: 17.568 min Scan# 2479
 Delta R.T. -0.018 min
 Lab File: BM049825.D
 Acq: 04 Apr 2025 16:01

Tgt Ion:167 Resp: 191124
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.0 25.6
 139 11.9 9.4 14.2

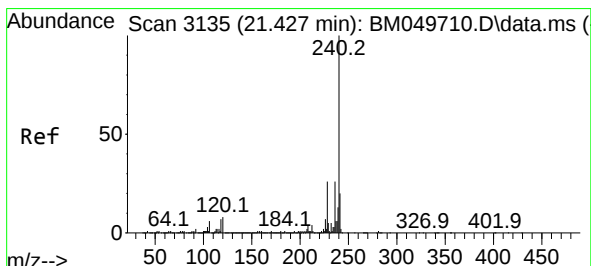
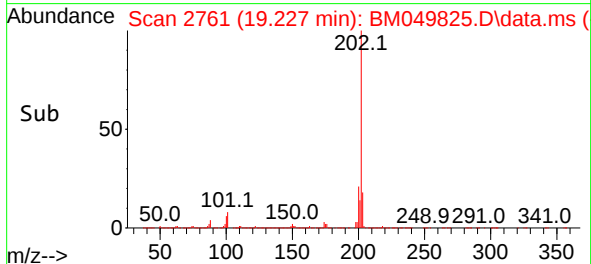
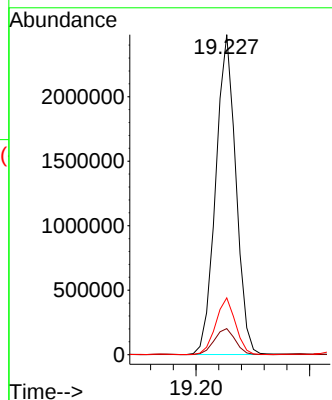
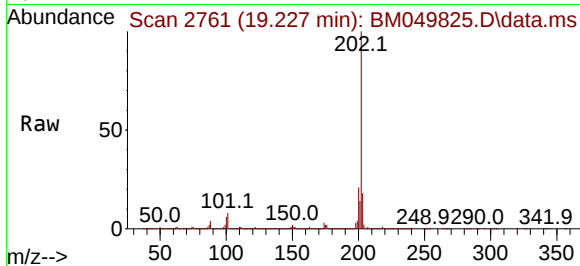




#75
Fluoranthene
Concen: 35.587 ng
RT: 19.227 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

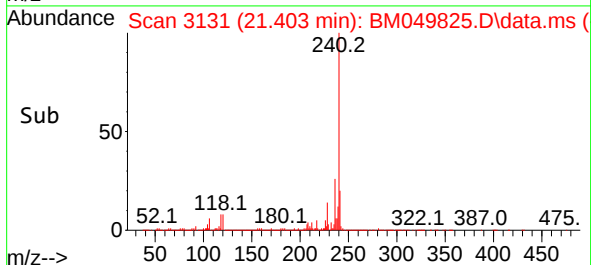
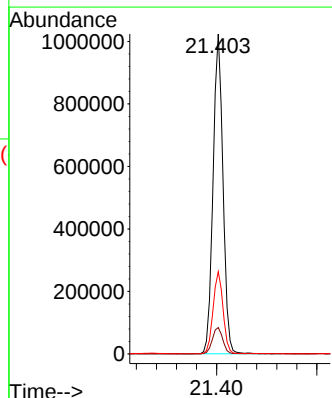
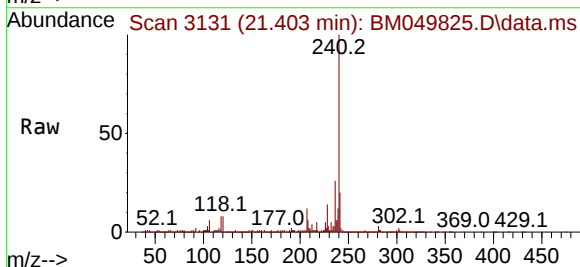
Instrument :
BNA_M
ClientSampleId :
B-9DL

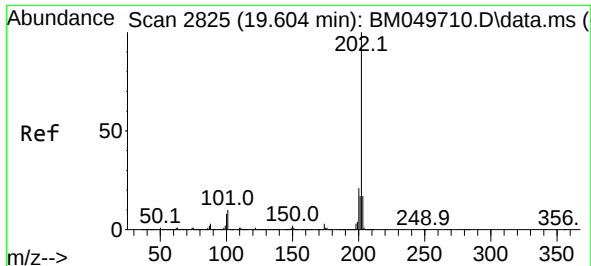
Tgt Ion:202 Resp: 3059549
Ion Ratio Lower Upper
202 100
101 8.2 0.0 27.8
203 17.7 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.403 min Scan# 3131
Delta R.T. -0.024 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:240 Resp: 1405975
Ion Ratio Lower Upper
240 100
120 8.3 6.5 9.7
236 25.7 20.7 31.1

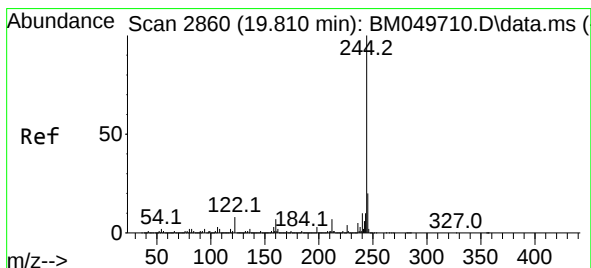
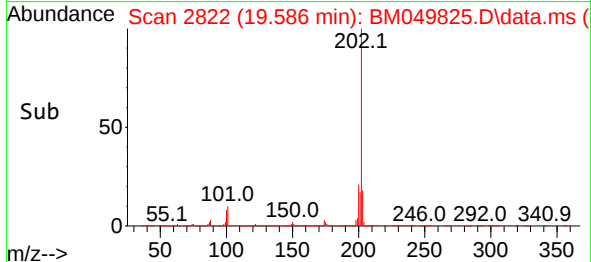
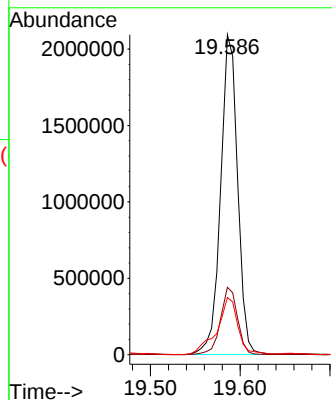
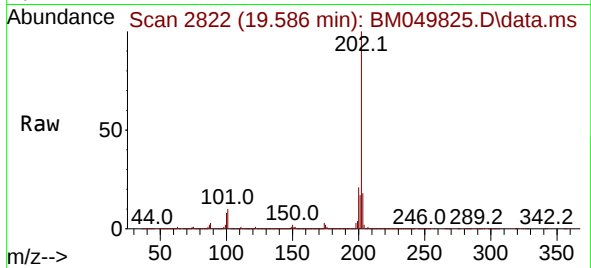




#78
 Pyrene
 Concen: 28.075 ng
 RT: 19.586 min Scan# 2822
 Delta R.T. -0.018 min
 Lab File: BM049825.D
 Acq: 04 Apr 2025 16:01

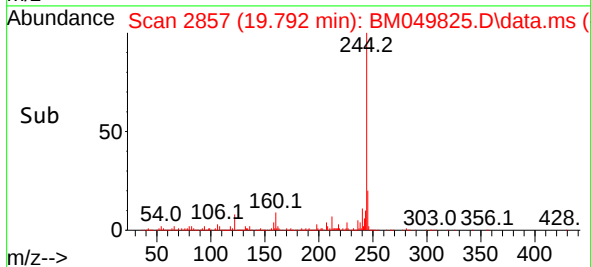
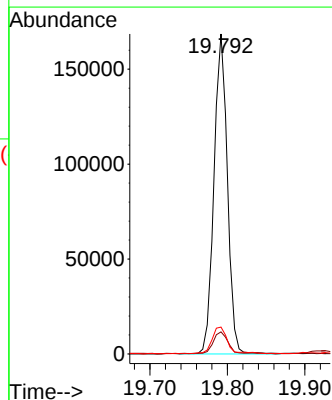
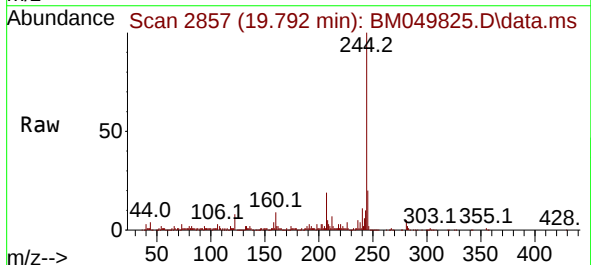
Instrument :
 BNA_M
 ClientSampleId :
 B-9DL

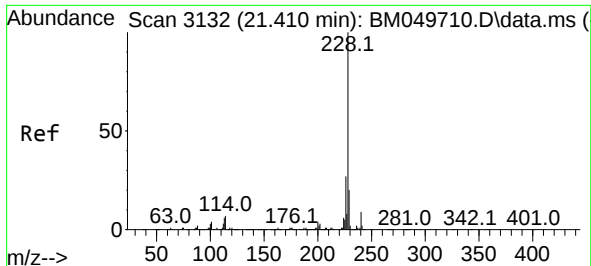
Tgt Ion:202 Resp: 2757781
 Ion Ratio Lower Upper
 202 100
 200 21.0 17.0 25.4
 203 17.8 14.0 21.0



#79
 Terphenyl-d14
 Concen: 2.441 ng
 RT: 19.792 min Scan# 2857
 Delta R.T. -0.018 min
 Lab File: BM049825.D
 Acq: 04 Apr 2025 16:01

Tgt Ion:244 Resp: 203629
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.8 8.6
 122 8.4 6.0 9.0

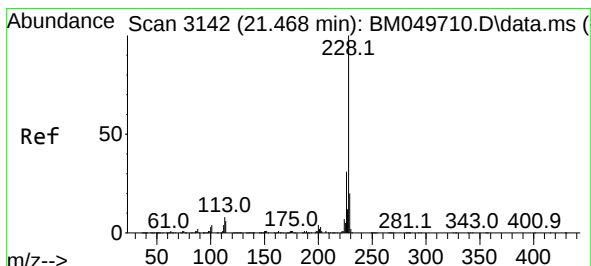
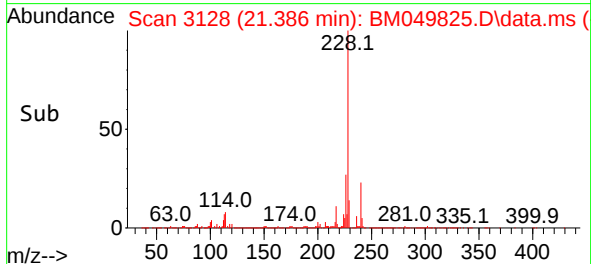
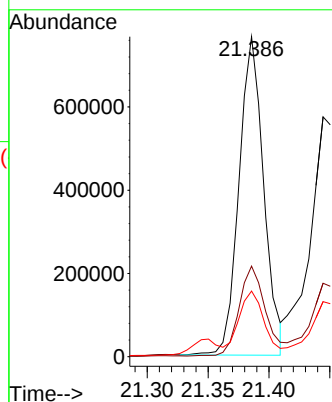
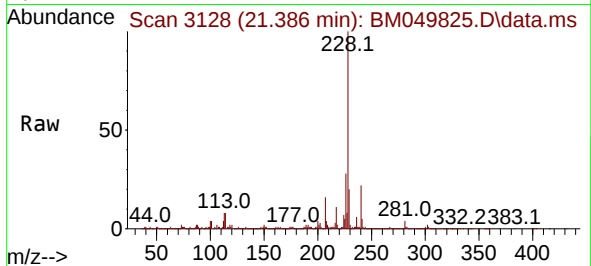




#81
Benzo(a)anthracene
Concen: 11.502 ng
RT: 21.386 min Scan# 3132
Delta R.T. -0.024 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

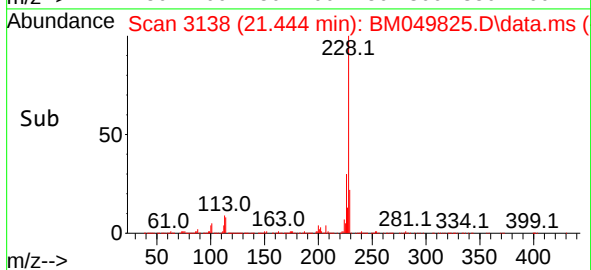
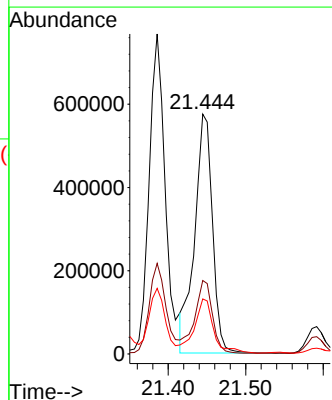
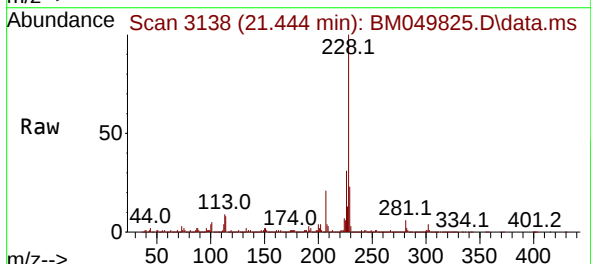
Instrument :
BNA_M
ClientSampleId :
B-9DL

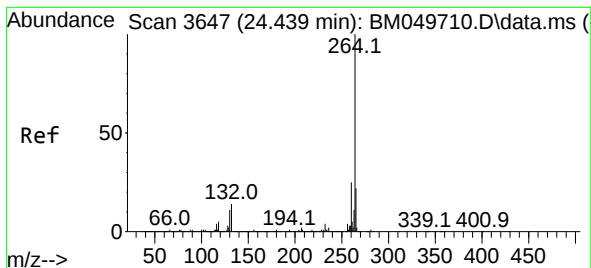
Tgt Ion:228 Resp: 1080182
Ion Ratio Lower Upper
228 100
226 28.3 22.0 33.0
229 20.5 15.8 23.8



#83
Chrysene
Concen: 10.331 ng
RT: 21.444 min Scan# 3138
Delta R.T. -0.024 min
Lab File: BM049825.D
Acq: 04 Apr 2025 16:01

Tgt Ion:228 Resp: 919667
Ion Ratio Lower Upper
228 100
226 30.6 24.5 36.7
229 23.0 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.036 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

BNA_M

ClientSampleId :

B-9DL

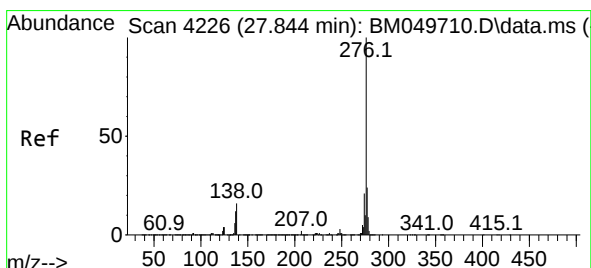
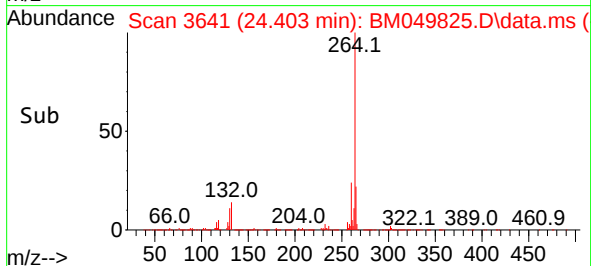
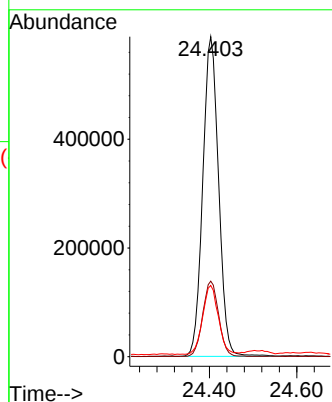
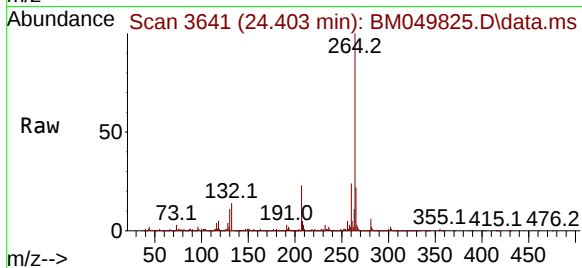
Tgt Ion:264 Resp: 1484469

Ion Ratio Lower Upper

264 100

260 23.6 19.6 29.4

265 22.3 18.2 27.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.945 ng

RT: 27.779 min Scan# 4215

Delta R.T. -0.065 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

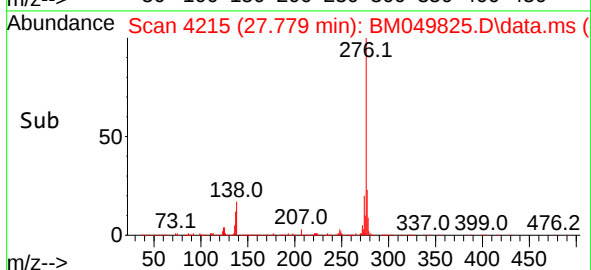
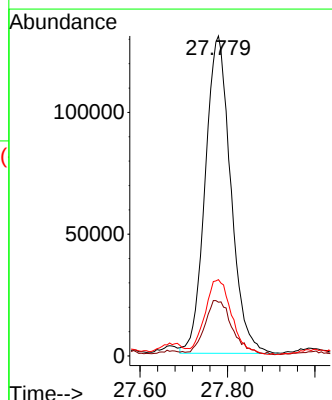
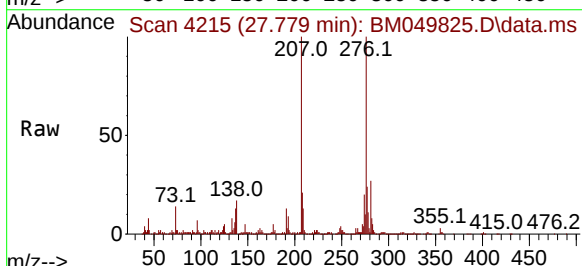
Tgt Ion:276 Resp: 528308

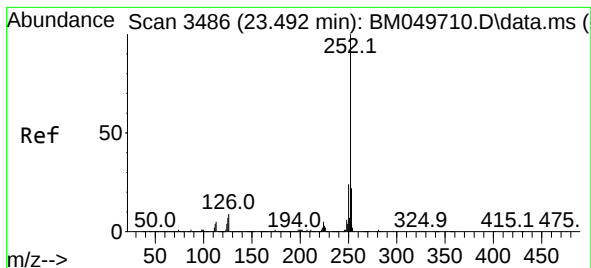
Ion Ratio Lower Upper

276 100

138 17.9 16.3 24.5

277 24.6 19.9 29.9





#88

Benzo(b)fluoranthene

Concen: 10.777 ng

RT: 23.456 min Scan# 3480

Delta R.T. -0.036 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

BNA_M

ClientSampleId :

B-9DL

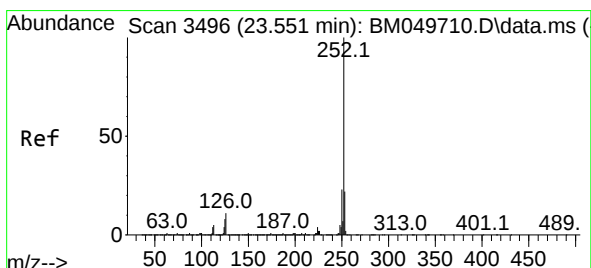
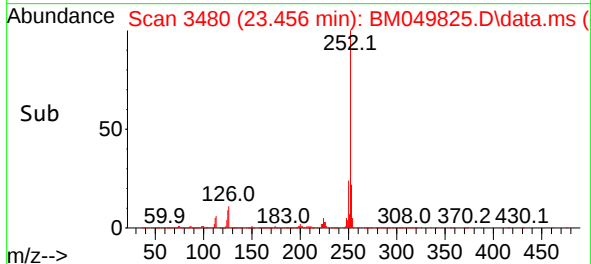
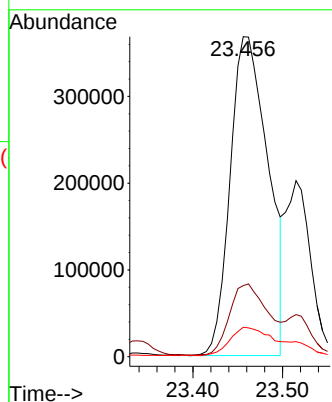
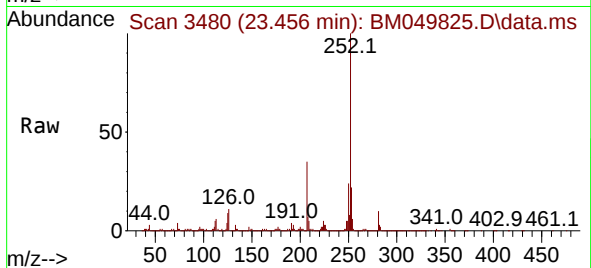
Tgt Ion:252 Resp: 1077547

Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

125 9.2 5.9 8.9#



#89

Benzo(k)fluoranthene

Concen: 10.953 ng

RT: 23.456 min Scan# 3480

Delta R.T. -0.095 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

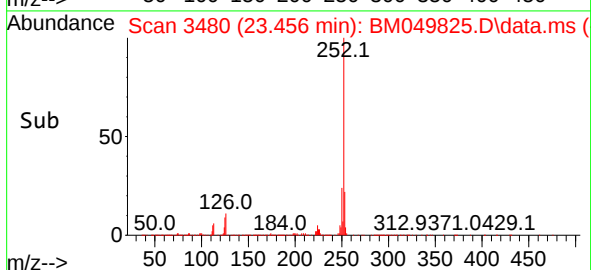
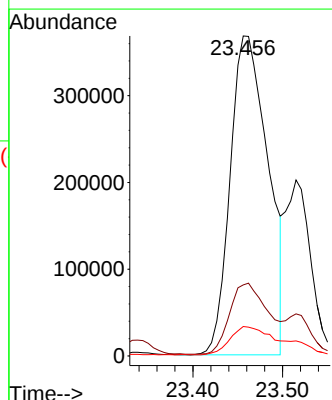
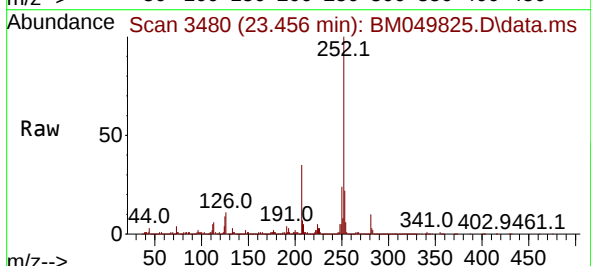
Tgt Ion:252 Resp: 1077547

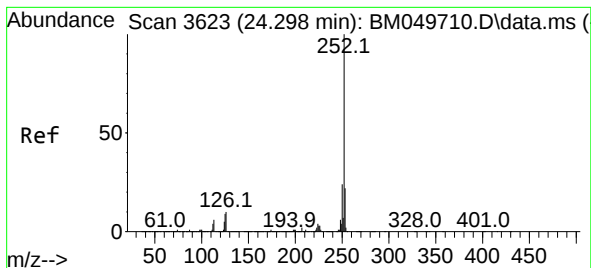
Ion Ratio Lower Upper

252 100

253 22.2 17.3 25.9

125 9.2 6.2 9.2





#90

Benzo(a)pyrene

Concen: 10.291 ng

RT: 24.262 min Scan# 3

Delta R.T. -0.036 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Instrument :

BNA_M

ClientSampleId :

B-9DL

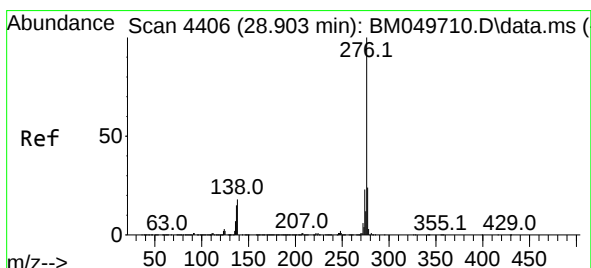
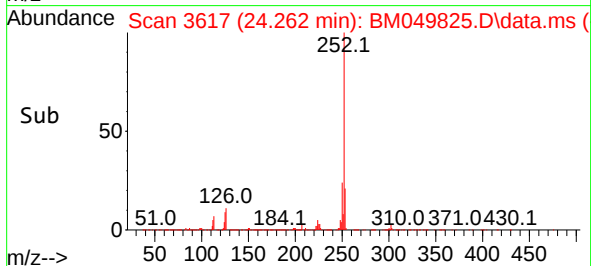
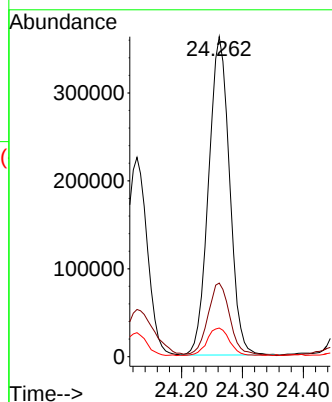
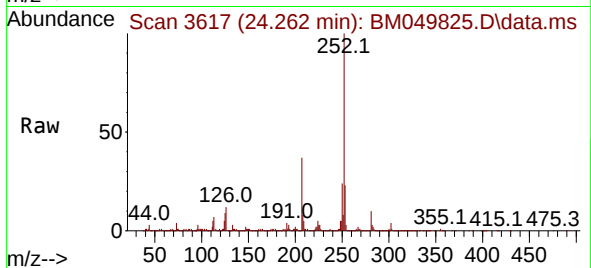
Tgt Ion:252 Resp: 864280

Ion Ratio Lower Upper

252 100

253 23.0 17.2 25.8

125 9.0 7.0 10.6



#92

Benzo(g,h,i)perylene

Concen: 5.900 ng

RT: 28.826 min Scan# 4393

Delta R.T. -0.077 min

Lab File: BM049825.D

Acq: 04 Apr 2025 16:01

Tgt Ion:276 Resp: 529070

Ion Ratio Lower Upper

276 100

277 23.8 18.8 28.2

138 18.9 14.0 21.0

