

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041525\
 Data File : BM049939.D
 Acq On : 15 Apr 2025 17:52
 Operator : RC/JU
 Sample : Q1806-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-03-041425

Quant Time: Apr 15 18:31:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

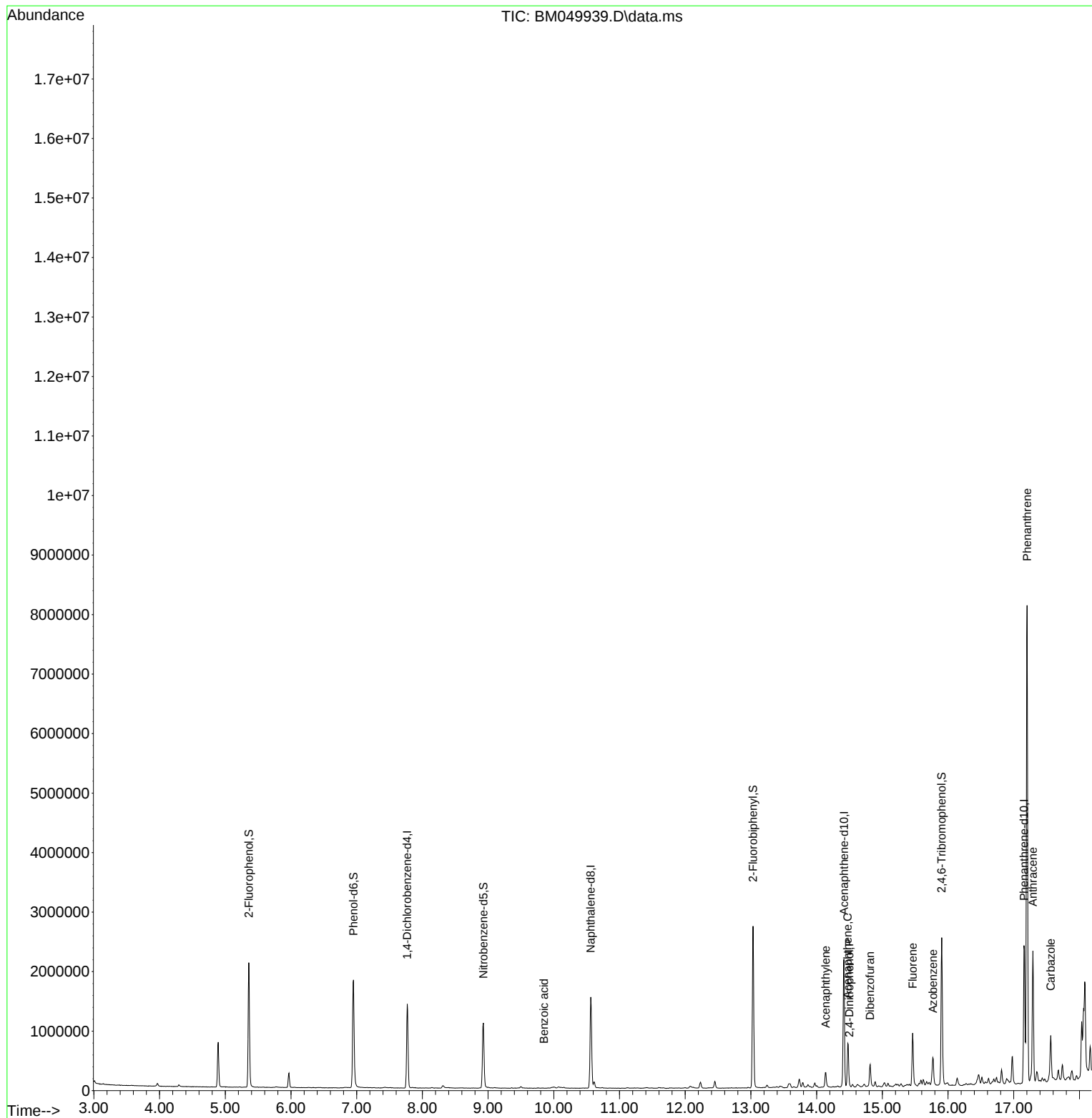
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	413502	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1320547	20.000	ng	-0.01
39) Acenaphthene-d10	14.416	164	779378	20.000	ng	0.00
64) Phenanthrene-d10	17.157	188	1440696	20.000	ng	0.00
76) Chrysene-d12	21.398	240	1473077	20.000	ng	0.00
86) Perylene-d12	24.403	264	1638586	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	946512	38.869	ng	0.00
7) Phenol-d6	6.951	99	1150459	37.972	ng	0.00
23) Nitrobenzene-d5	8.928	82	672949	28.377	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	479067	42.259	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	1482849	25.800	ng	-0.01
79) Terphenyl-d14	19.786	244	1700638	21.636	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	9.851	122	709	8.572	ng	# 57
49) Acenaphthylene	14.139	152	196377	2.961	ng	98
52) Acenaphthene	14.474	154	272529	6.459	ng	99
54) 2,4-Dinitrophenol	14.498	184	53	7.230	ng	# 1
55) Dibenzofuran	14.816	168	228352	3.237	ng	97
58) Fluorene	15.463	166	407937	7.276	ng	98
63) Azobenzene	15.768	77	114278	2.531	ng	# 1
71) Phenanthrene	17.204	178	4993698	63.224	ng	100
72) Anthracene	17.292	178	1414347	18.170	ng	99
73) Carbazole	17.562	167	502127	6.849	ng	100
75) Fluoranthene	19.221	202	8471448	87.231	ng	99
78) Pyrene	19.586	202	7040581	69.350	ng	99
81) Benzo(a)anthracene	21.380	228	3093650	31.600	ng	99
83) Chrysene	21.445	228	2638691	28.350	ng	97
87) Indeno(1,2,3-cd)pyrene	27.791	276	1645652	13.473	ng	96
88) Benzo(b)fluoranthene	23.462	252	3284275	31.383	ng	99
89) Benzo(k)fluoranthene	23.462	252	3284275	32.385	ng	98
90) Benzo(a)pyrene	24.262	252	2554380	27.777	ng	98
91) Dibenzo(a,h)anthracene	27.832	278	399607	3.972	ng	# 91
92) Benzo(g,h,i)perylene	28.856	276	1620931	15.767	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041525\
Data File : BM049939.D
Acq On : 15 Apr 2025 17:52
Operator : RC/JU
Sample : Q1806-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-03-041425

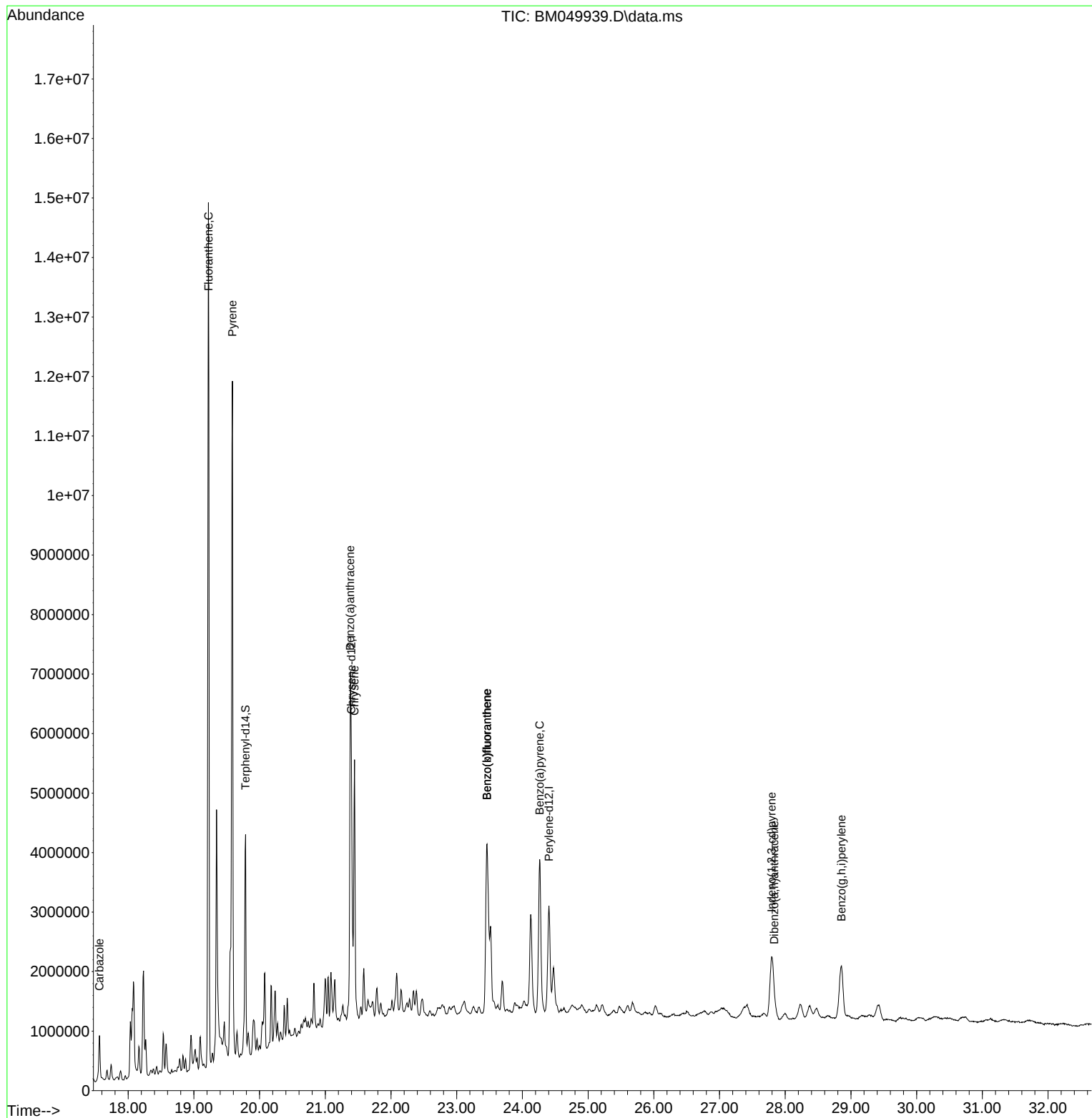
Quant Time: Apr 15 18:31:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

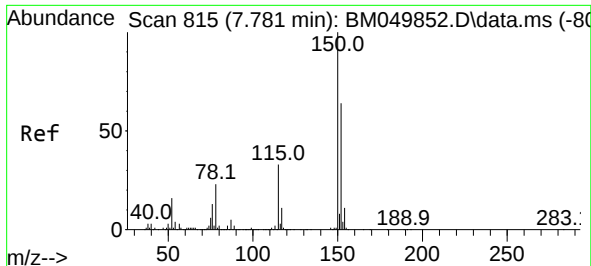


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041525\
Data File : BM049939.D
Acq On : 15 Apr 2025 17:52
Operator : RC/JU
Sample : Q1806-01 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-03-041425

Quant Time: Apr 15 18:31:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

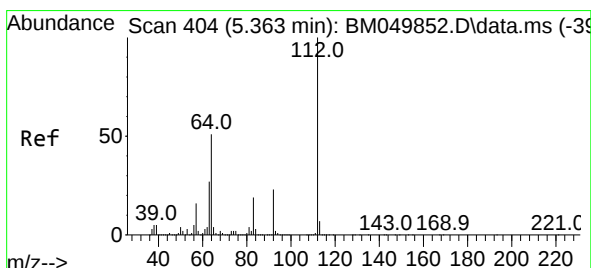
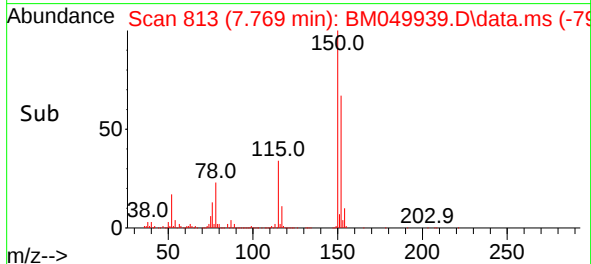
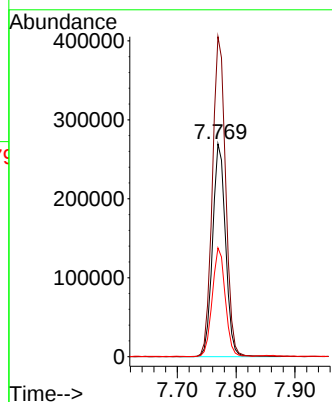
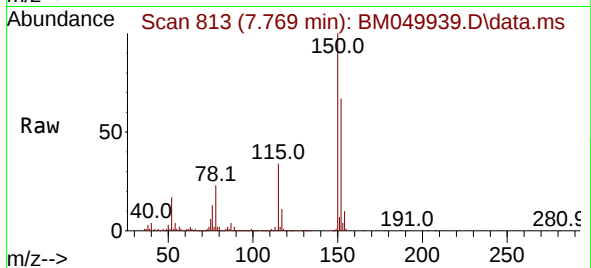




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

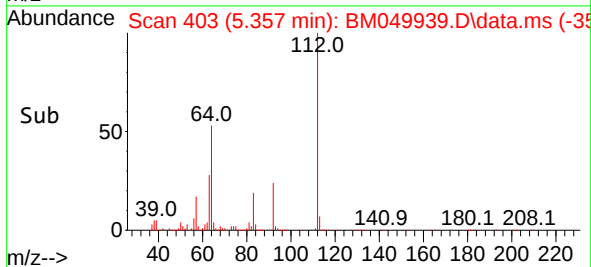
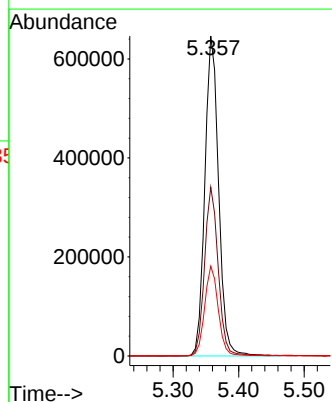
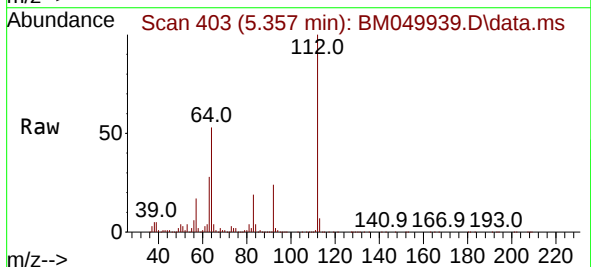
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

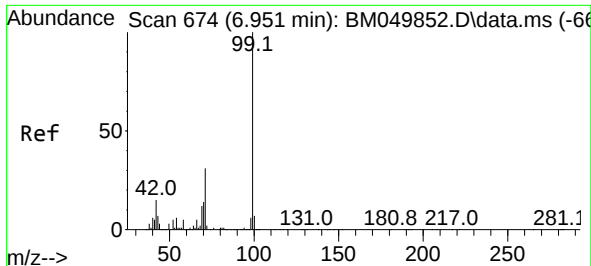
Tgt Ion:152 Resp: 413502
Ion Ratio Lower Upper
152 100
150 150.3 124.3 186.5
115 51.1 41.1 61.7



#5
2-Fluorophenol
Concen: 38.869 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:112 Resp: 946512
Ion Ratio Lower Upper
112 100
64 52.8 41.0 61.6
63 28.1 21.5 32.3

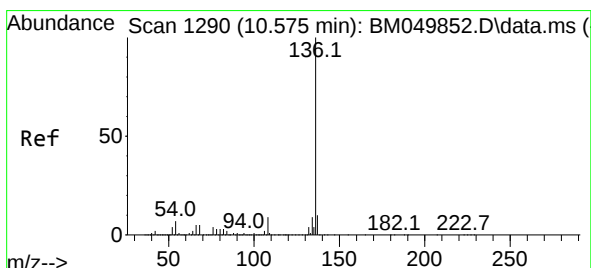
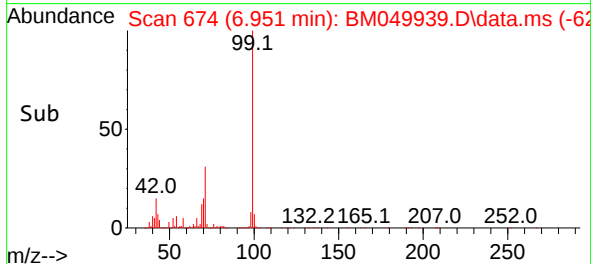
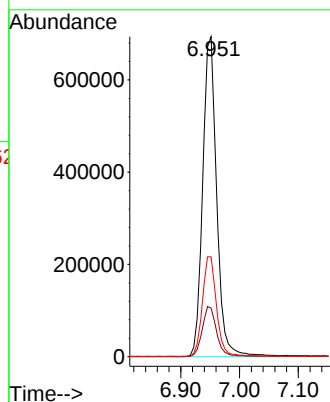
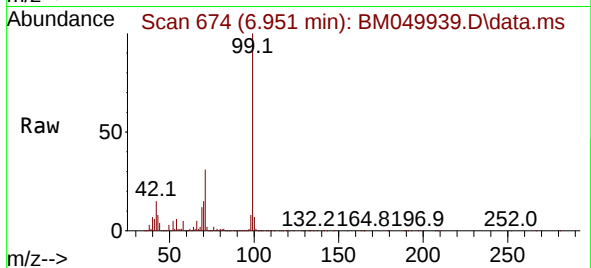




#7
Phenol-d6
Concen: 37.972 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

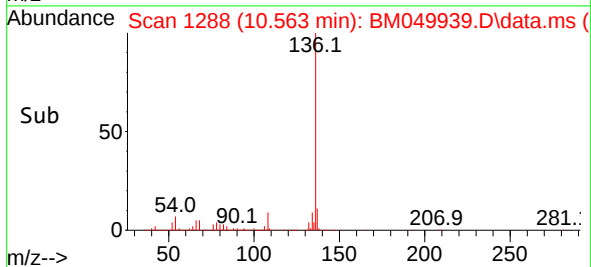
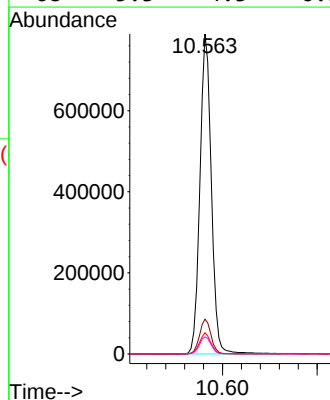
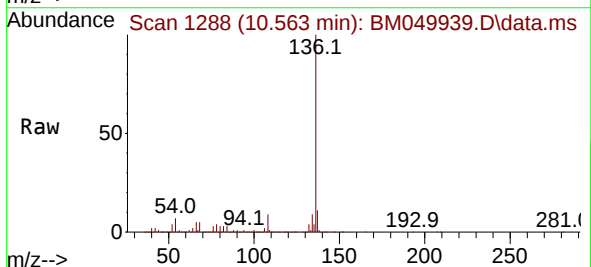
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

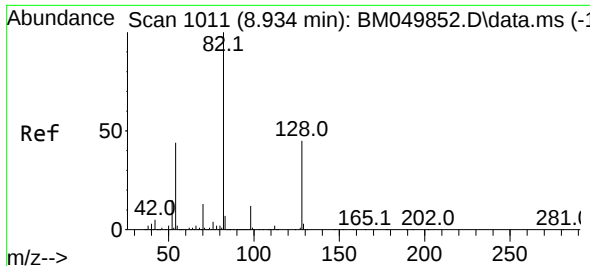
Tgt Ion: 99 Resp: 1150459
Ion Ratio Lower Upper
99 100
42 15.2 12.1 18.1
71 31.2 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion: 136 Resp: 1320547
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 6.7 5.3 7.9
68 5.3 4.3 6.5

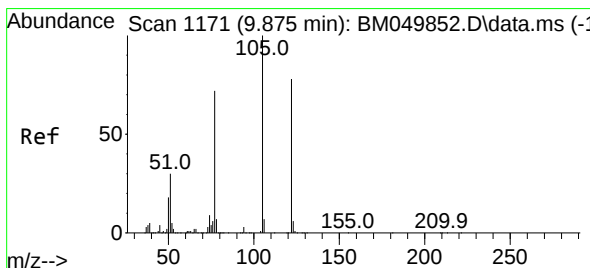
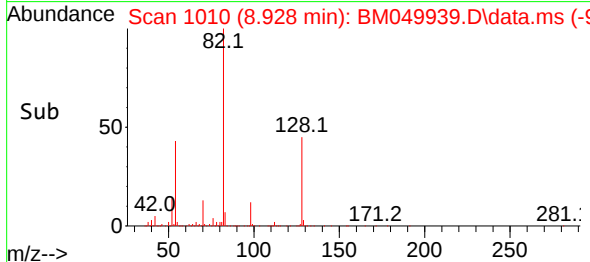
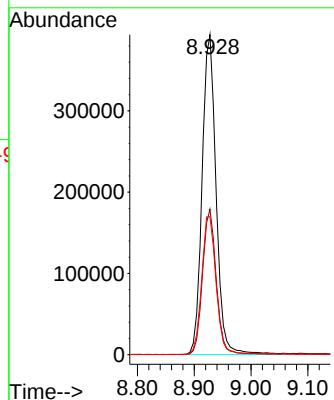
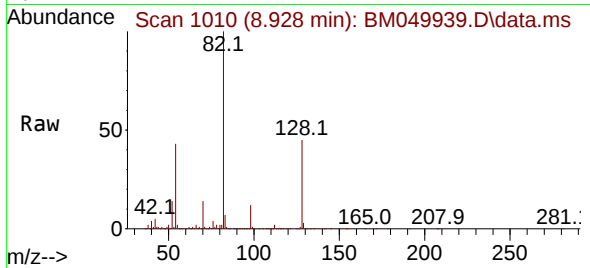




#23
Nitrobenzene-d5
Concen: 28.377 ng
RT: 8.928 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

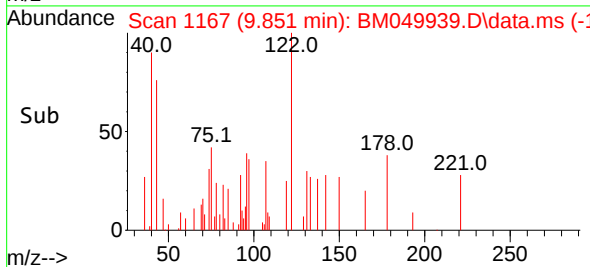
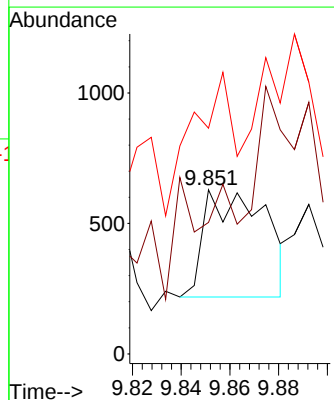
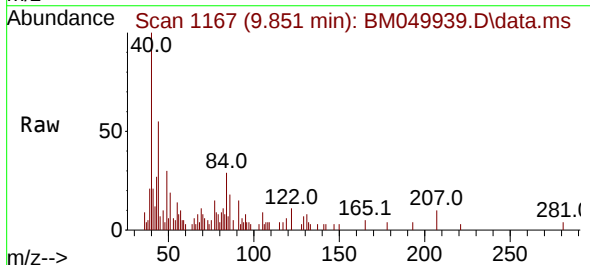
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

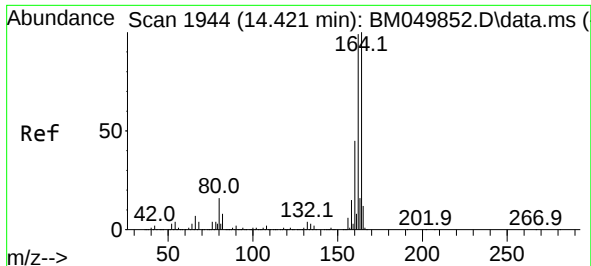
Tgt Ion: 82 Resp: 672949
Ion Ratio Lower Upper
82 100
128 45.5 36.2 54.2
54 43.1 35.0 52.6



#32
Benzoic acid
Concen: 8.572 ng
RT: 9.851 min Scan# 1167
Delta R.T. -0.024 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:122 Resp: 709
Ion Ratio Lower Upper
122 100
105 80.1 103.8 143.8#
77 137.5 70.7 110.7#

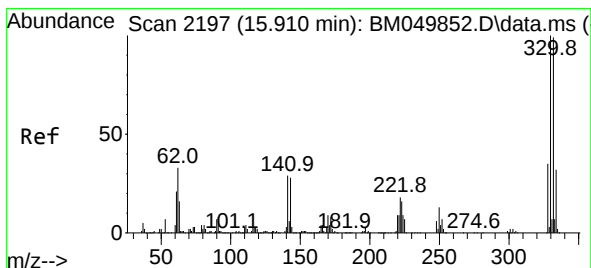
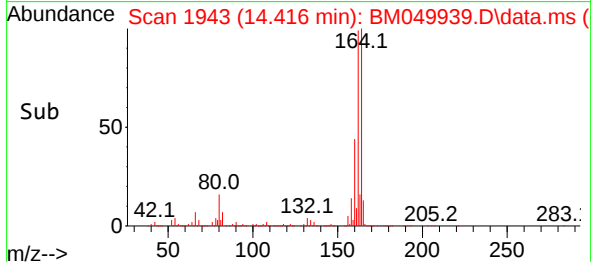
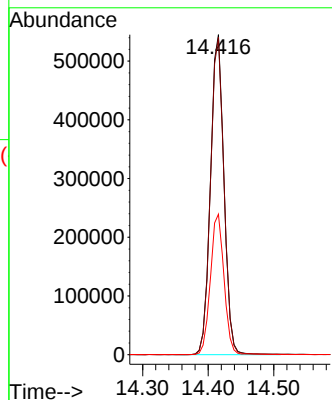
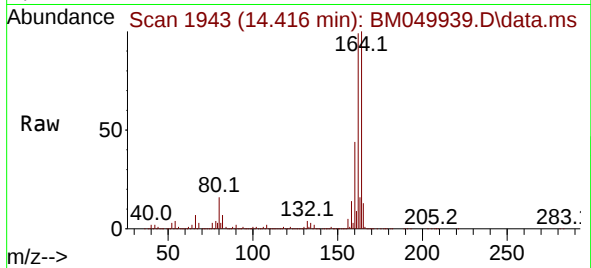




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

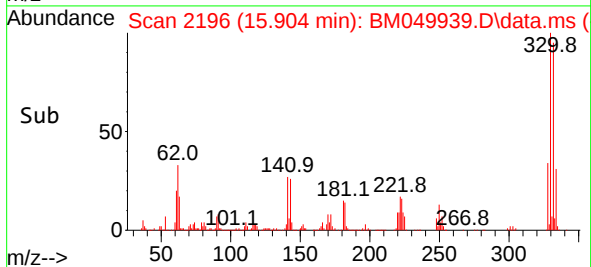
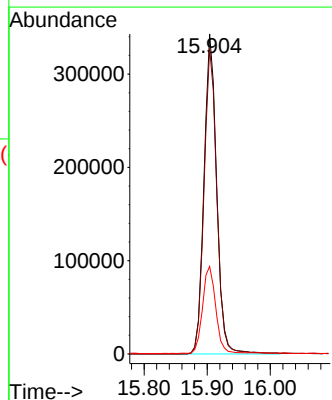
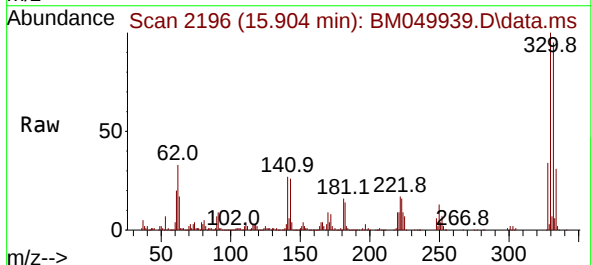
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

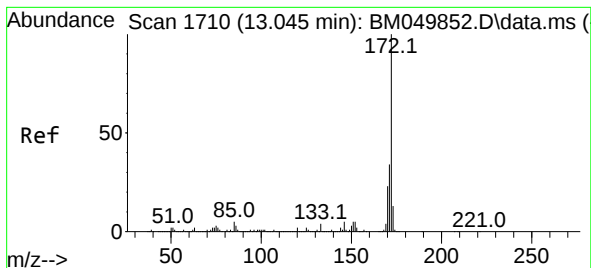
Tgt Ion:164 Resp: 779378
Ion Ratio Lower Upper
164 100
162 99.1 79.4 119.0
160 43.9 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 42.259 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:330 Resp: 479067
Ion Ratio Lower Upper
330 100
332 96.4 78.0 117.0
141 28.2 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 25.800 ng

RT: 13.033 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

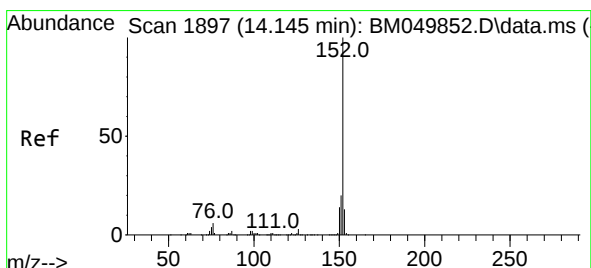
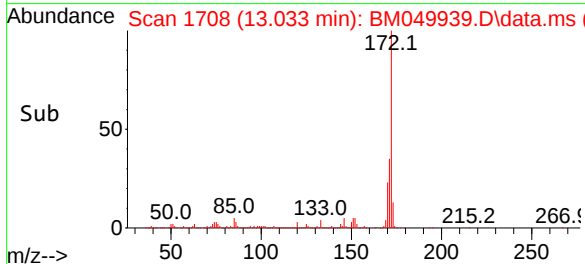
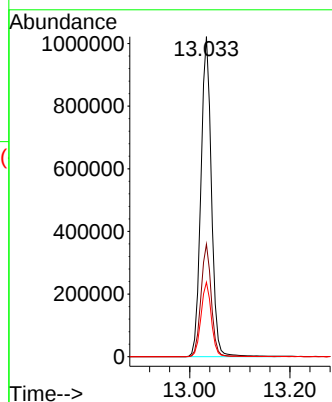
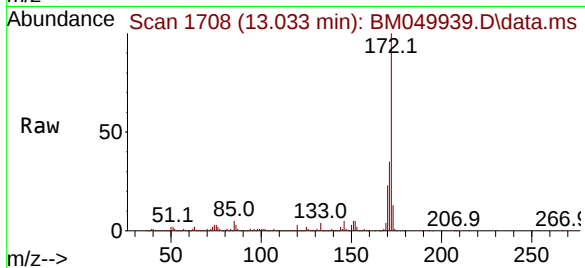
Tgt Ion:172 Resp: 1482849

Ion Ratio Lower Upper

172 100

171 35.2 27.4 41.2

170 23.3 18.6 28.0



#49

Acenaphthylene

Concen: 2.961 ng

RT: 14.139 min Scan# 1896

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

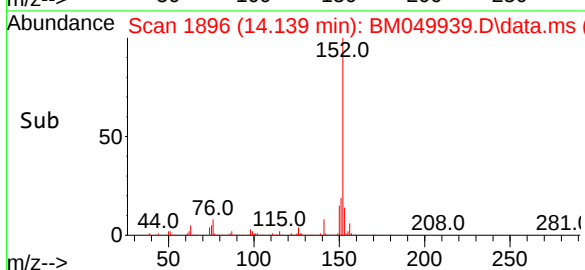
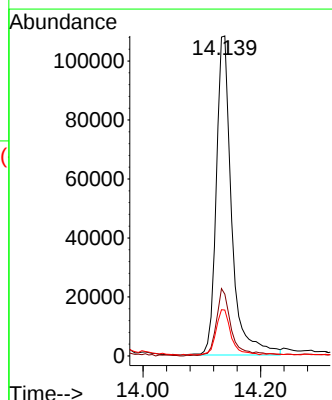
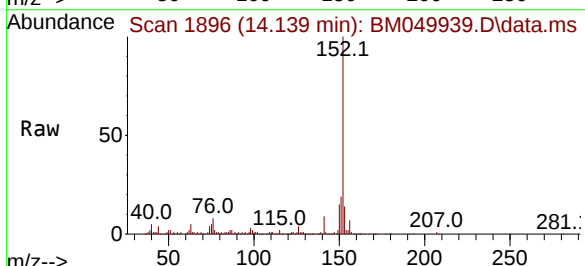
Tgt Ion:152 Resp: 196377

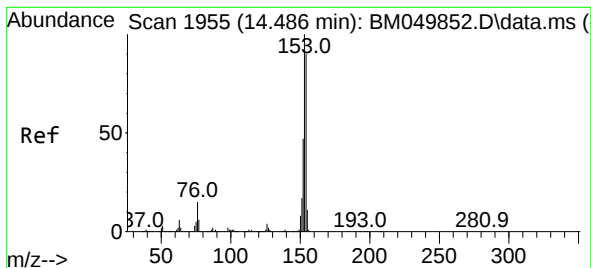
Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

153 14.4 10.4 15.6





#52

Acenaphthene

Concen: 6.459 ng

RT: 14.474 min Scan# 1953

Delta R.T. -0.012 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

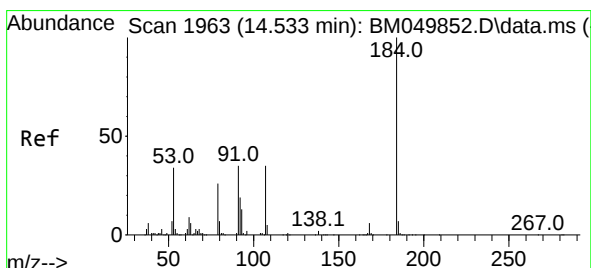
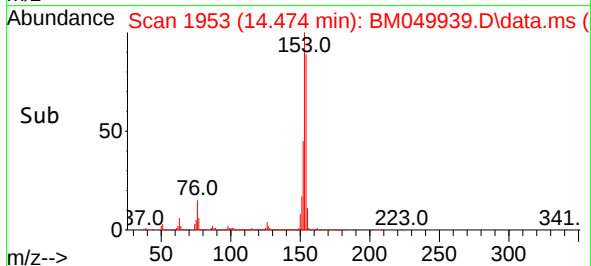
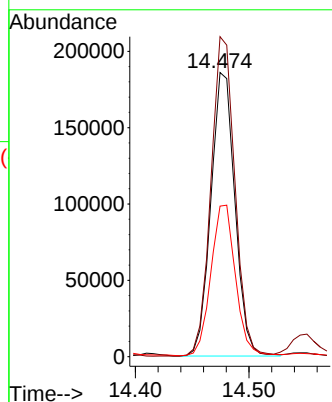
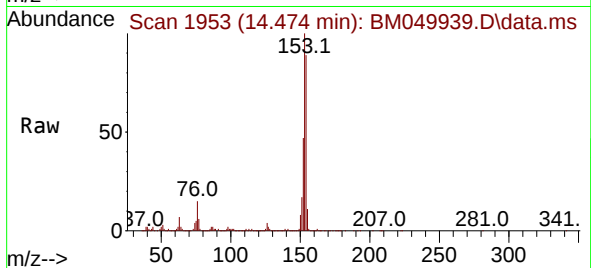
Tgt Ion:154 Resp: 272529

Ion Ratio Lower Upper

154 100

153 112.6 89.3 133.9

152 53.0 42.2 63.2



#54

2,4-Dinitrophenol

Concen: 7.230 ng

RT: 14.498 min Scan# 1957

Delta R.T. -0.035 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

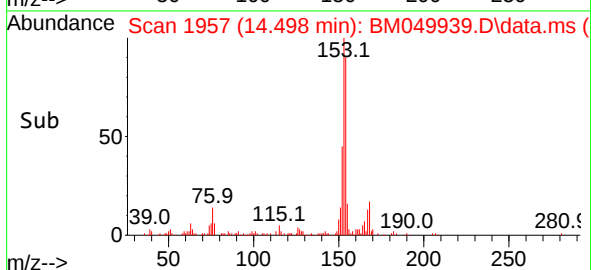
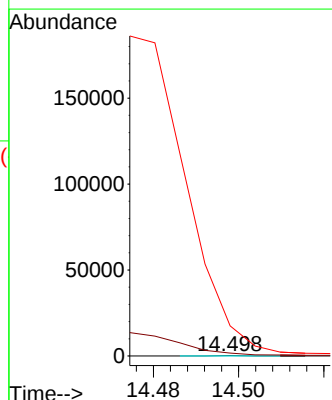
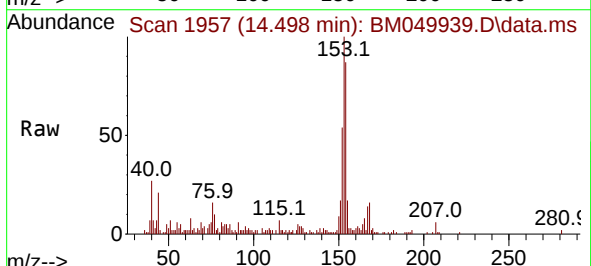
Tgt Ion:184 Resp: 53

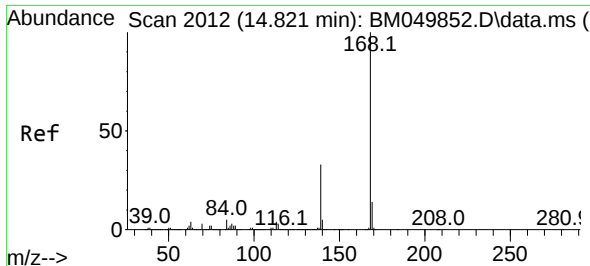
Ion Ratio Lower Upper

184 100

63 1106.7 38.4 57.6#

154 11664.0 48.1 72.1#

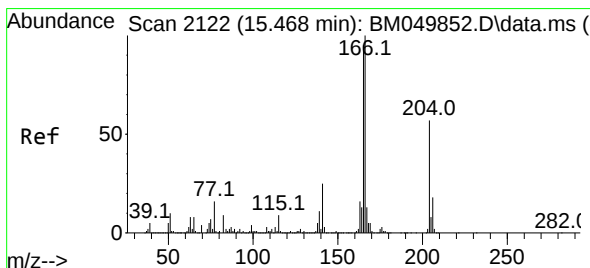
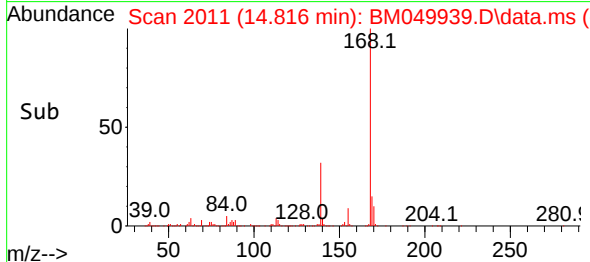
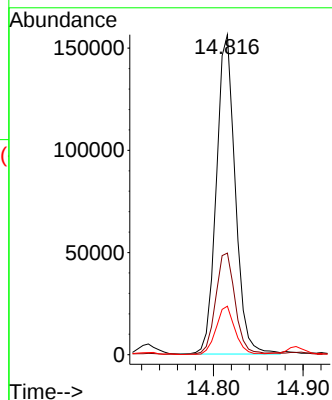
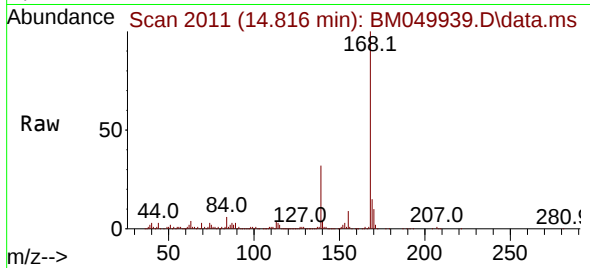




#55
Dibenzenofuran
Concen: 3.237 ng
RT: 14.816 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

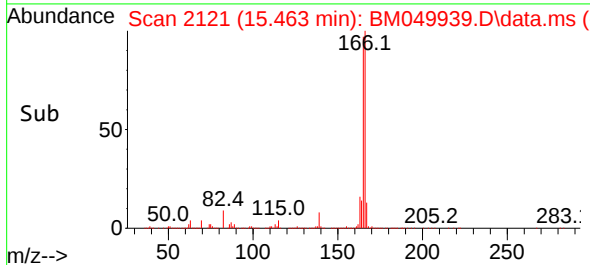
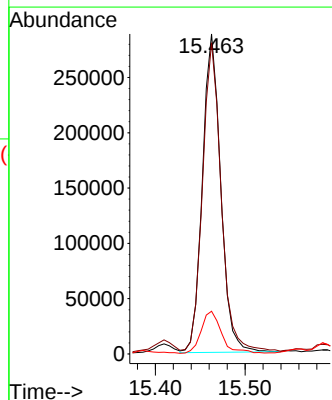
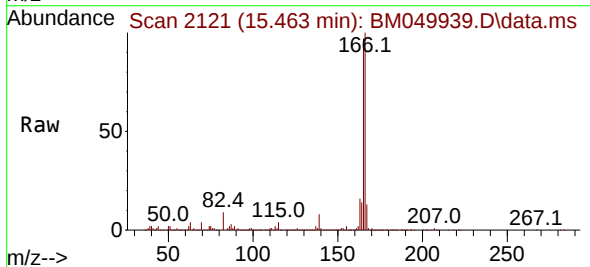
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

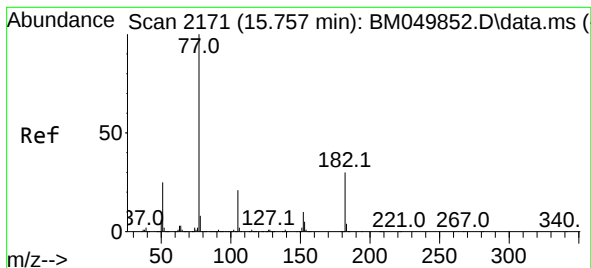
Tgt Ion:168 Resp: 228352
Ion Ratio Lower Upper
168 100
139 31.8 26.6 39.8
169 15.1 11.0 16.4



#58
Fluorene
Concen: 7.276 ng
RT: 15.463 min Scan# 2121
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:166 Resp: 407937
Ion Ratio Lower Upper
166 100
165 97.3 76.3 114.5
167 13.3 10.7 16.1





#63

Azobenzene

Concen: 2.531 ng

RT: 15.768 min Scan# 21

Delta R.T. 0.012 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

Tgt Ion: 77 Resp: 114278

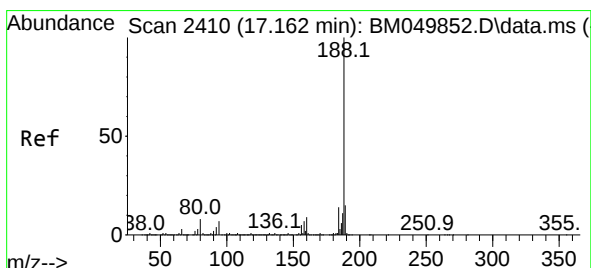
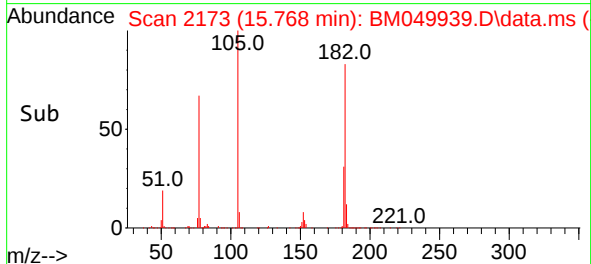
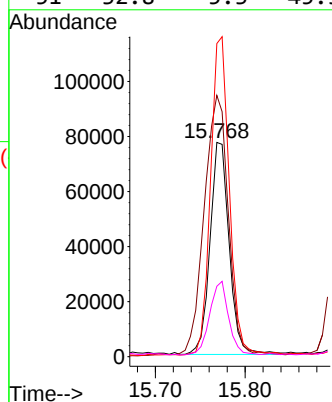
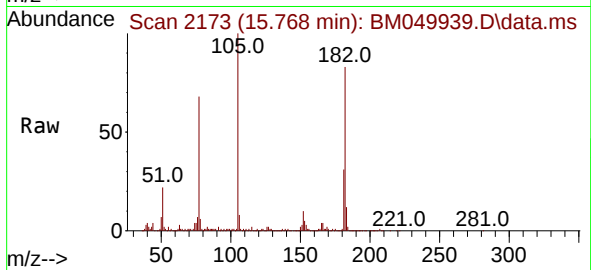
Ion Ratio Lower Upper

77 100

182 121.9 10.4 50.4#

105 146.2 1.5 41.5#

51 32.8 5.3 45.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.157 min Scan# 2409

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

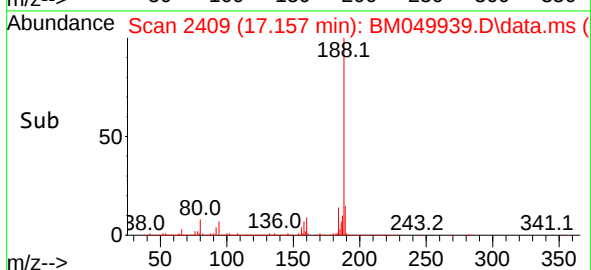
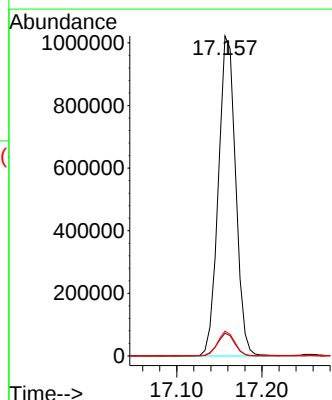
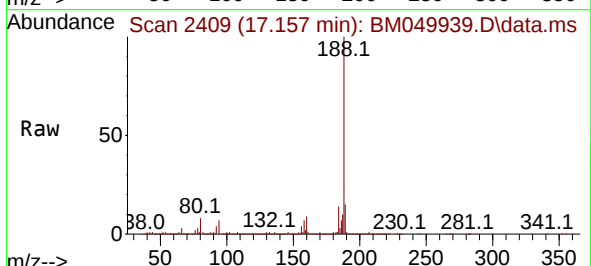
Tgt Ion:188 Resp: 1440696

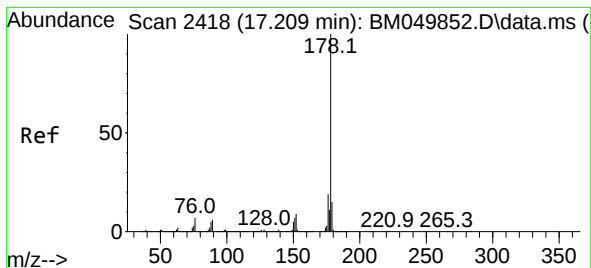
Ion Ratio Lower Upper

188 100

94 7.1 5.8 8.6

80 7.7 6.4 9.6





#71

Phenanthrene

Concen: 63.224 ng

RT: 17.204 min Scan# 2418

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

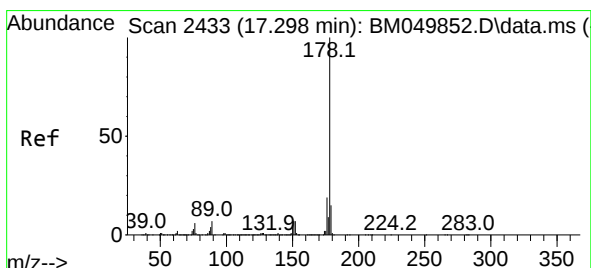
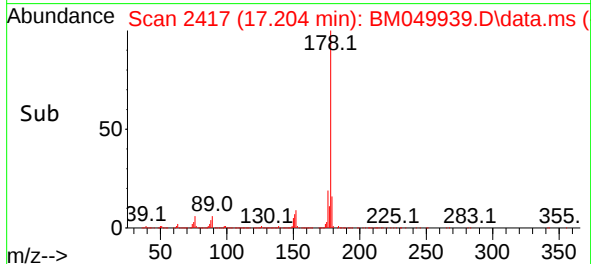
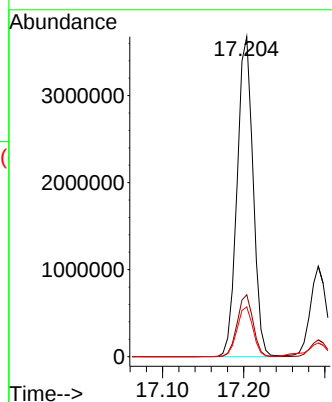
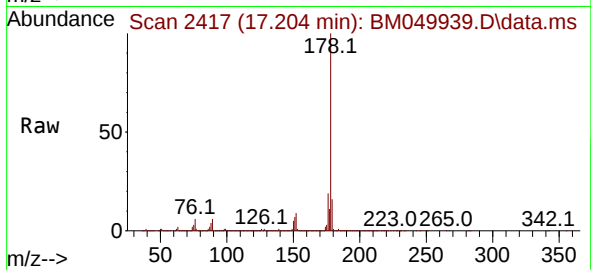
Tgt Ion:178 Resp: 4993698

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.6 12.3 18.5



#72

Anthracene

Concen: 18.170 ng

RT: 17.292 min Scan# 2432

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

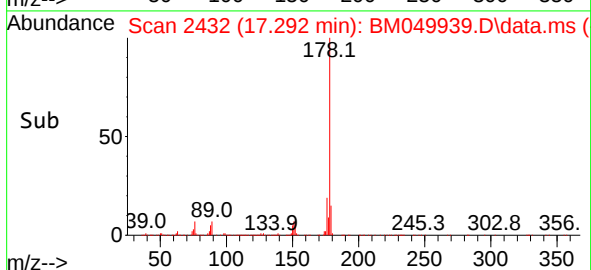
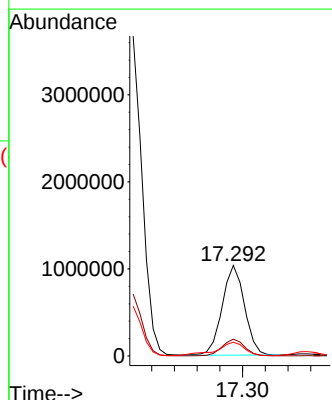
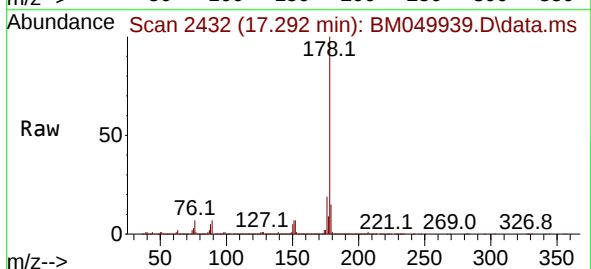
Tgt Ion:178 Resp: 1414347

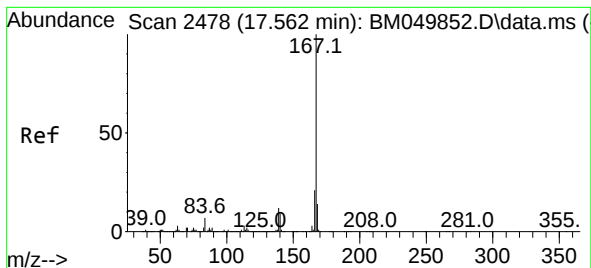
Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

179 15.2 12.4 18.6





#73

Carbazole

Concen: 6.849 ng

RT: 17.562 min Scan# 24

Delta R.T. 0.000 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

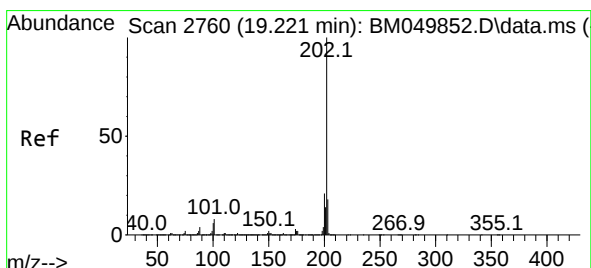
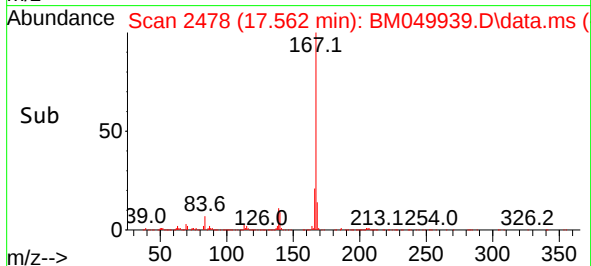
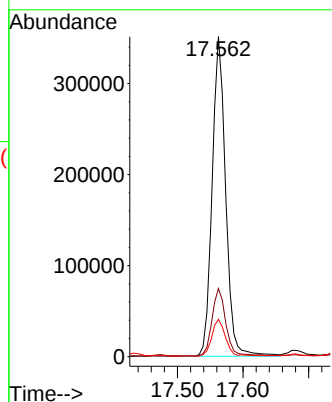
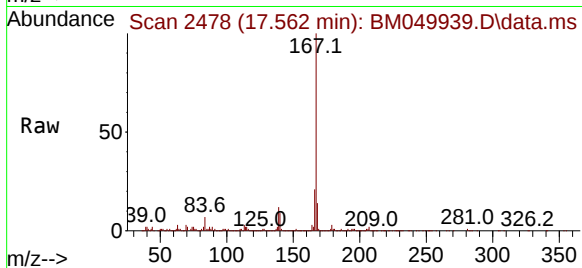
Tgt Ion:167 Resp: 502127

Ion Ratio Lower Upper

167 100

166 21.3 16.9 25.3

139 11.7 9.3 13.9



#75

Fluoranthene

Concen: 87.231 ng

RT: 19.221 min Scan# 2760

Delta R.T. 0.000 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

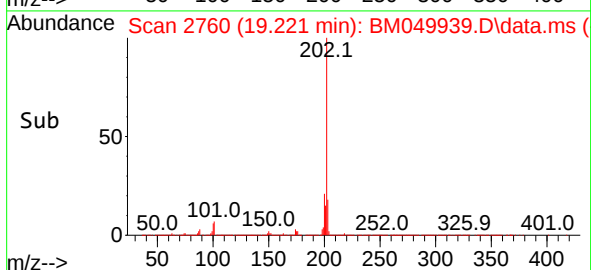
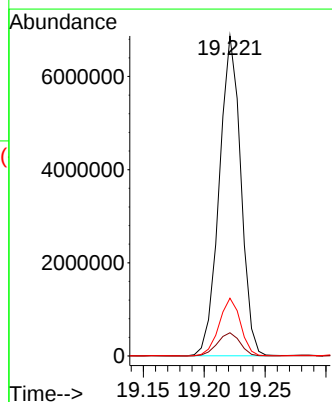
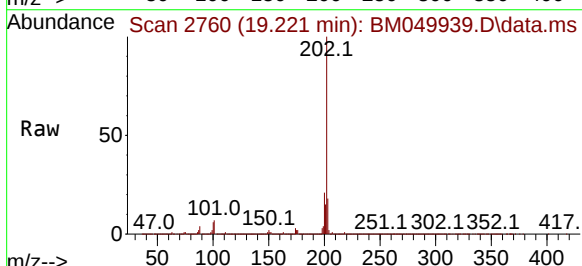
Tgt Ion:202 Resp: 8471448

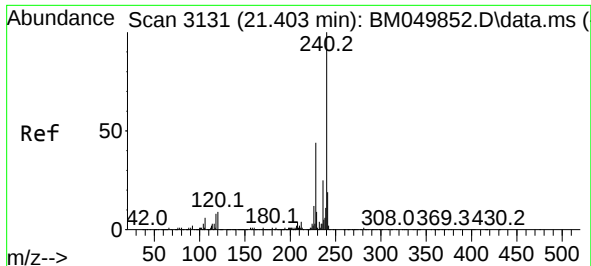
Ion Ratio Lower Upper

202 100

101 7.2 0.0 28.4

203 18.0 0.0 37.8

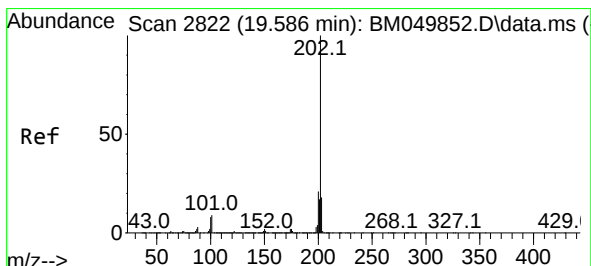
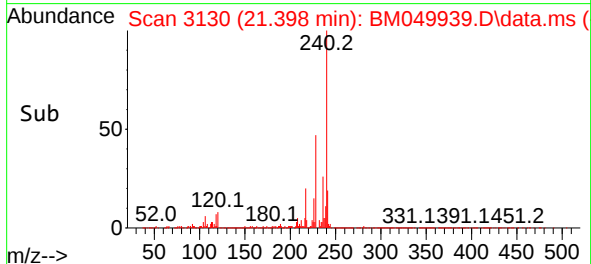
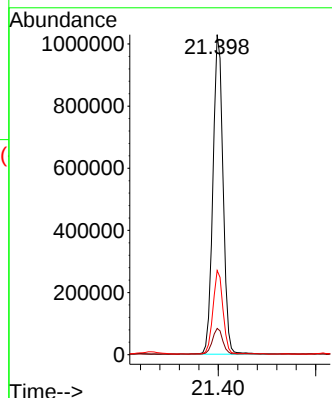
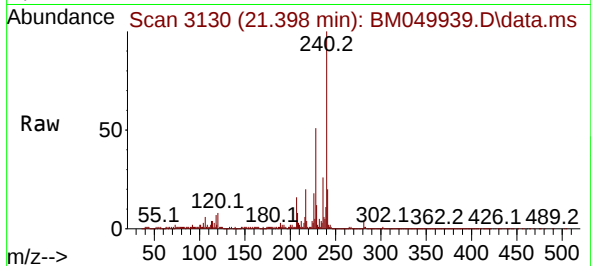




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.398 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

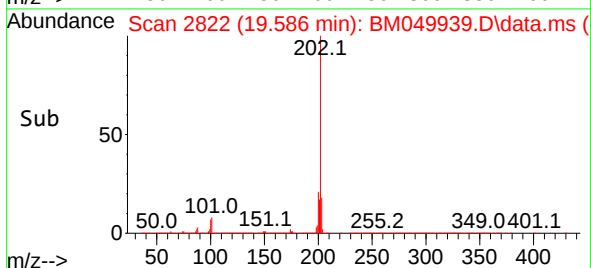
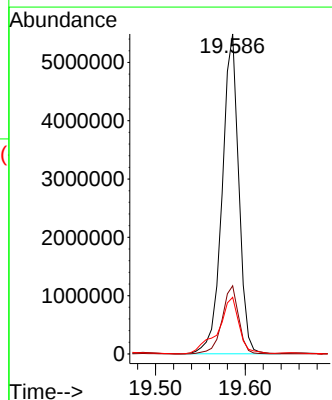
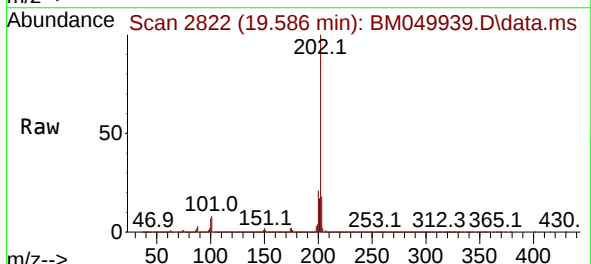
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

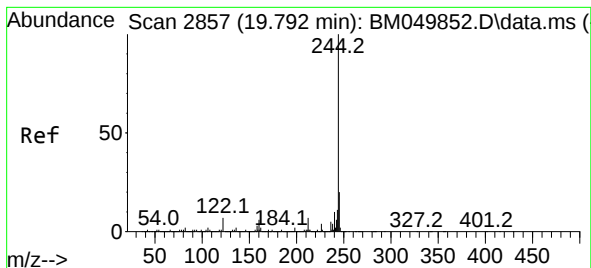
Tgt Ion:240 Resp: 1473077
Ion Ratio Lower Upper
240 100
120 8.2 6.9 10.3
236 26.3 20.4 30.6



#78
Pyrene
Concen: 69.350 ng
RT: 19.586 min Scan# 2822
Delta R.T. 0.000 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:202 Resp: 7040581
Ion Ratio Lower Upper
202 100
200 21.3 16.5 24.7
203 17.7 14.0 21.0





#79

Terphenyl-d14

Concen: 21.636 ng

RT: 19.786 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

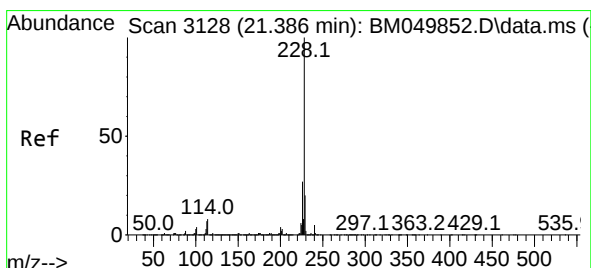
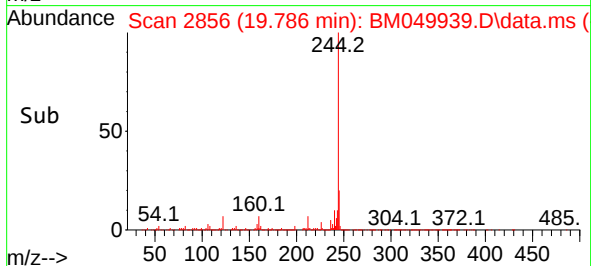
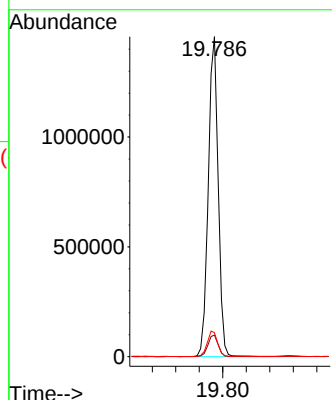
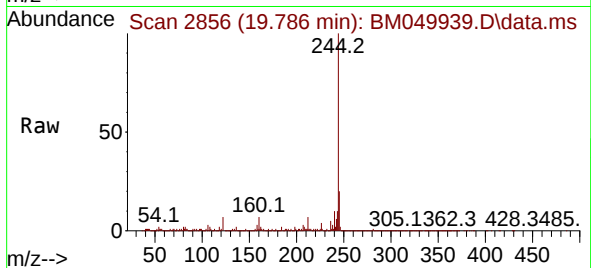
Tgt Ion:244 Resp: 1700638

Ion Ratio Lower Upper

244 100

212 6.8 5.5 8.3

122 7.5 5.4 8.0



#81

Benzo(a)anthracene

Concen: 31.600 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

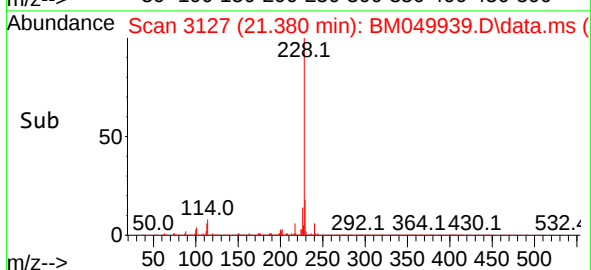
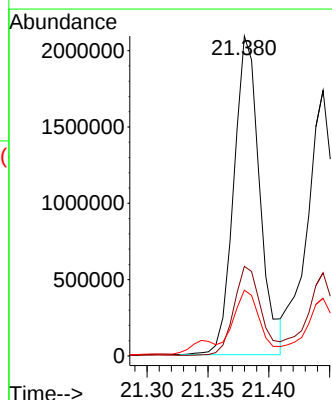
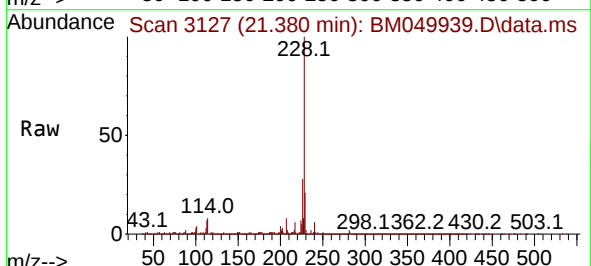
Tgt Ion:228 Resp: 3093650

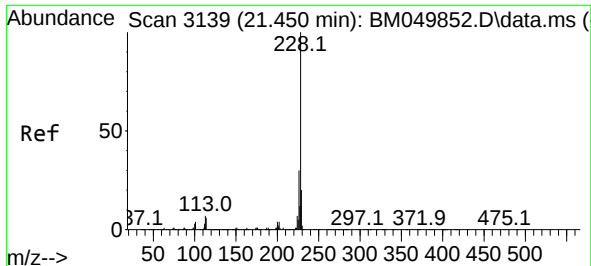
Ion Ratio Lower Upper

228 100

226 28.0 21.8 32.8

229 20.5 15.8 23.8

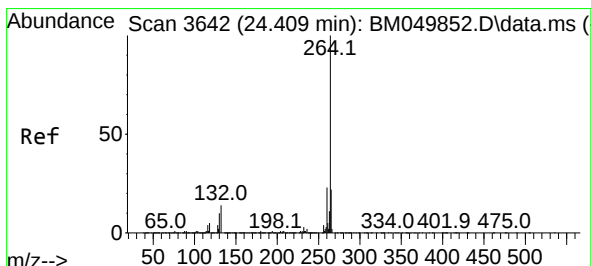
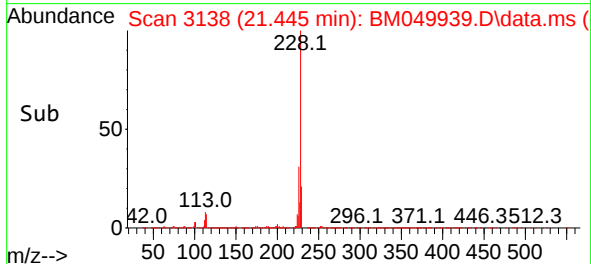
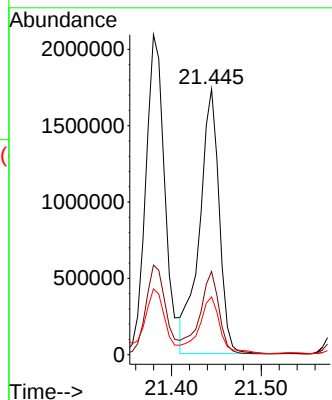
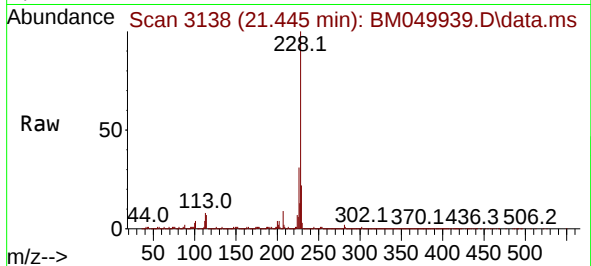




#83
Chrysene
Concen: 28.350 ng
RT: 21.445 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

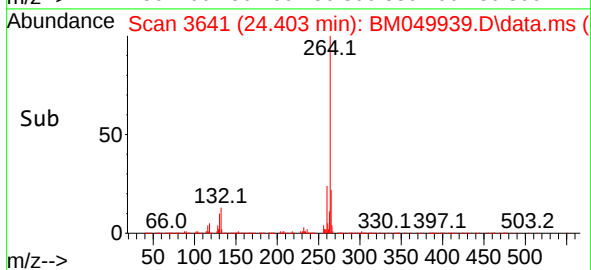
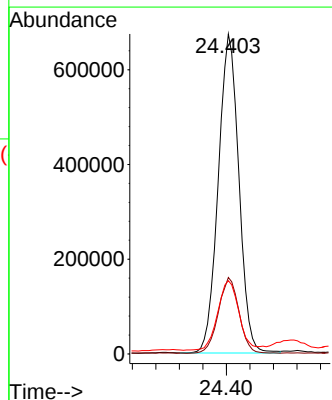
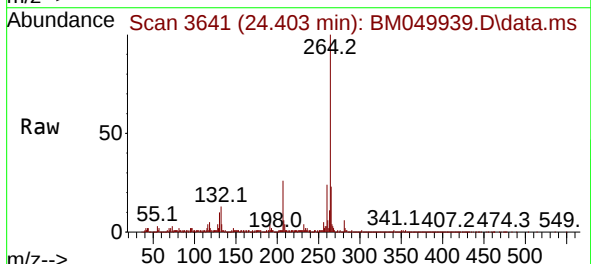
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

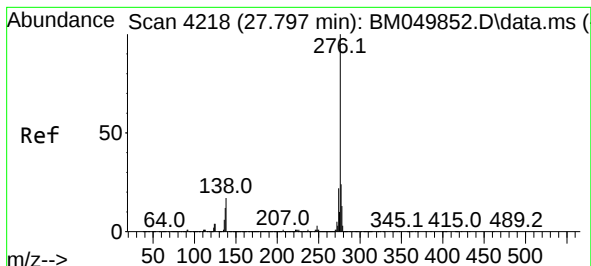
Tgt Ion:228 Resp: 2638691
Ion Ratio Lower Upper
228 100
226 31.3 24.1 36.1
229 21.8 15.8 23.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.403 min Scan# 3641
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:264 Resp: 1638586
Ion Ratio Lower Upper
264 100
260 23.9 18.6 28.0
265 22.9 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 13.473 ng

RT: 27.791 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

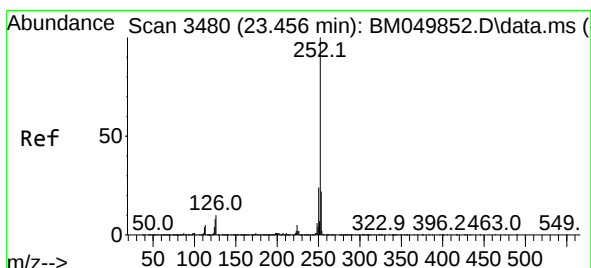
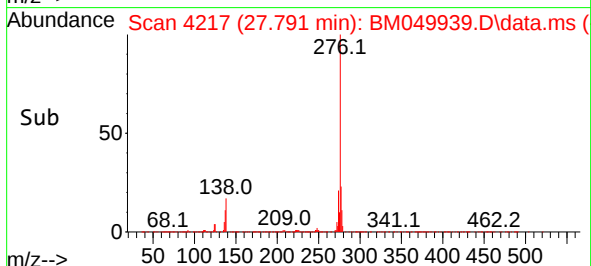
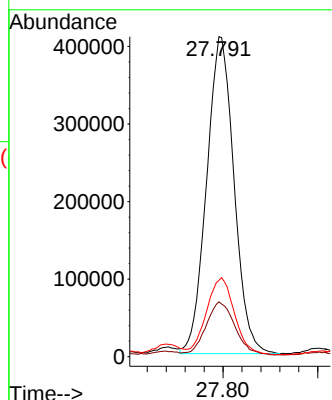
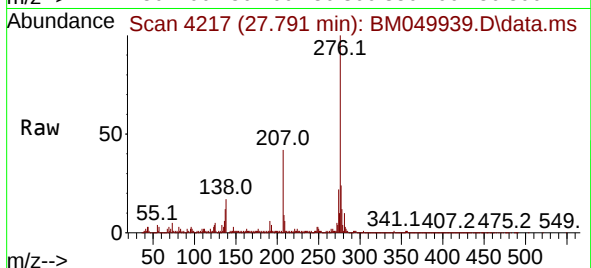
Tgt Ion:276 Resp: 1645652

Ion Ratio Lower Upper

276 100

138 17.5 16.8 25.2

277 24.9 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 31.383 ng

RT: 23.462 min Scan# 3481

Delta R.T. 0.006 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

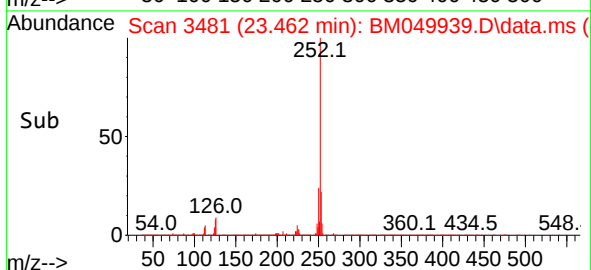
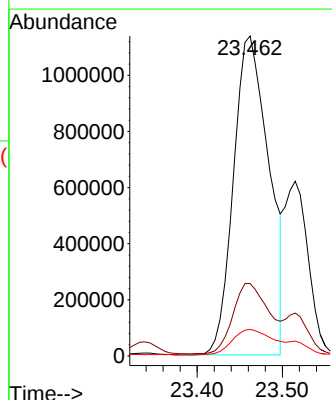
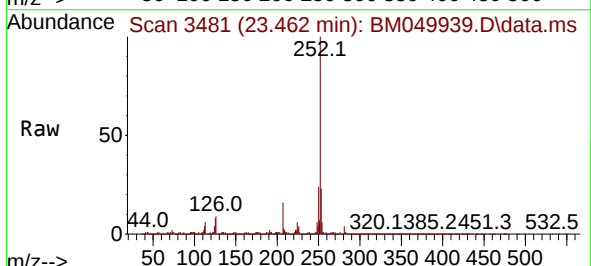
Tgt Ion:252 Resp: 3284275

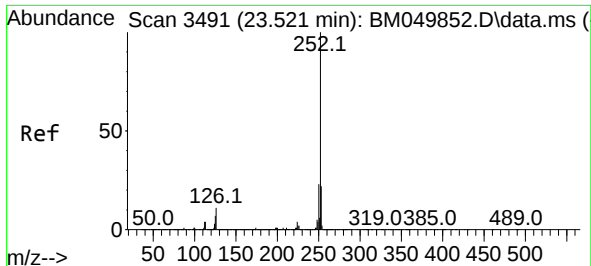
Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

125 8.3 6.2 9.4

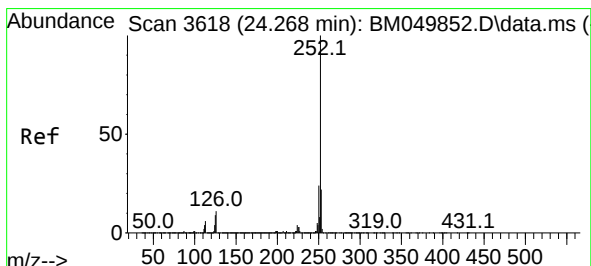
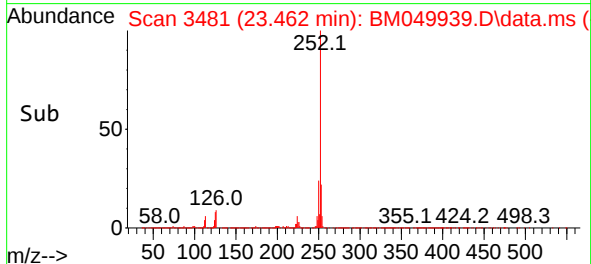
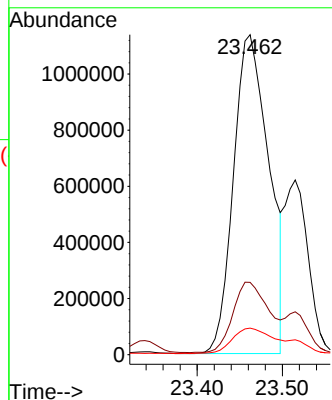
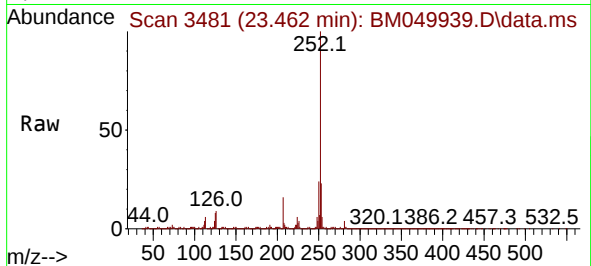




#89
Benzo(k)fluoranthene
Concen: 32.385 ng
RT: 23.462 min Scan# 34
Delta R.T. -0.059 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

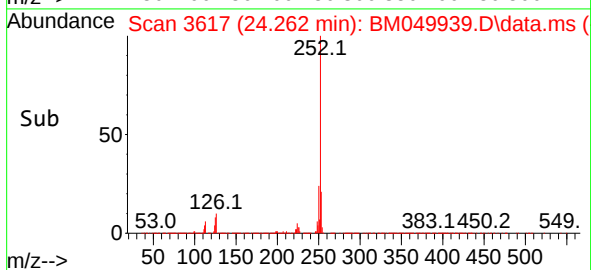
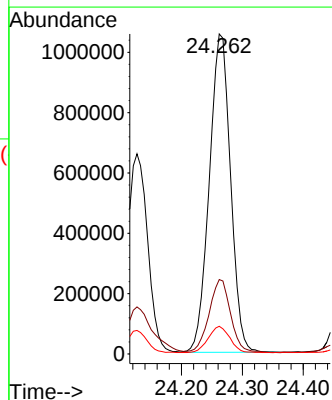
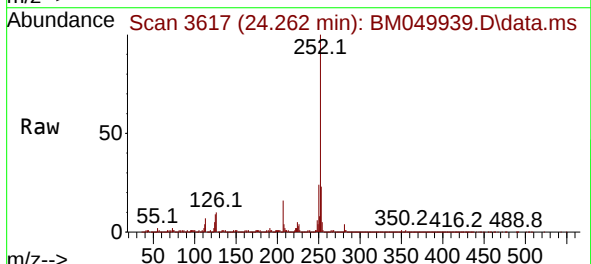
Instrument :
BNA_M
ClientSampleId :
OR-03-041425

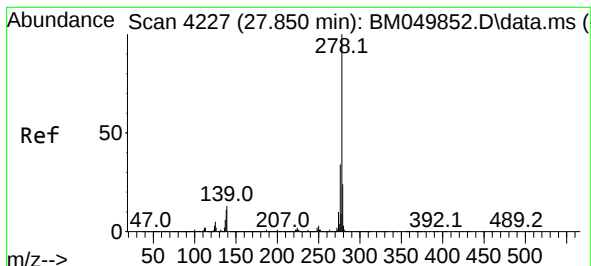
Tgt Ion:252 Resp: 3284275
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 8.3 5.8 8.8



#90
Benzo(a)pyrene
Concen: 27.777 ng
RT: 24.262 min Scan# 3617
Delta R.T. -0.006 min
Lab File: BM049939.D
Acq: 15 Apr 2025 17:52

Tgt Ion:252 Resp: 2554380
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 8.7 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 3.972 ng

RT: 27.832 min Scan# 41

Delta R.T. -0.018 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Instrument :

BNA_M

ClientSampleId :

OR-03-041425

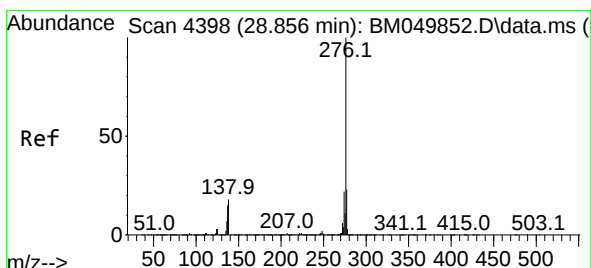
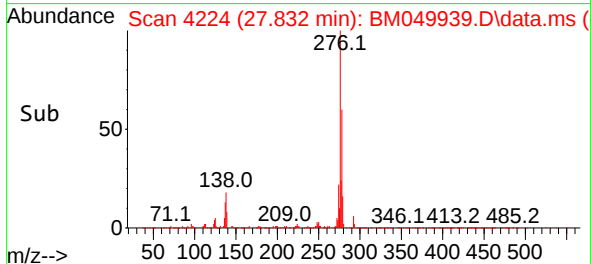
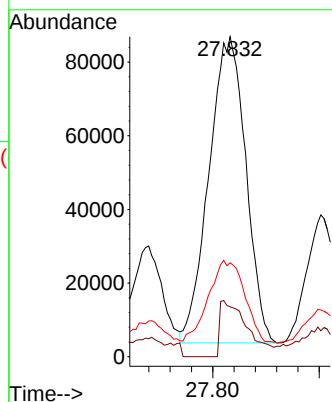
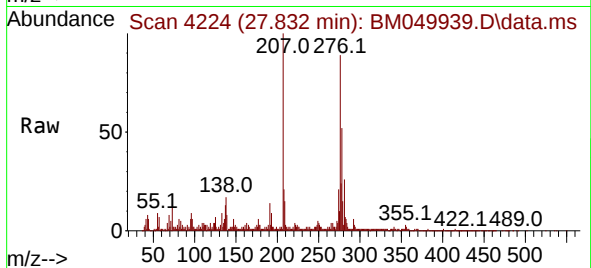
Tgt Ion:278 Resp: 399607

Ion Ratio Lower Upper

278 100

139 15.6 10.6 15.8

279 29.3 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 15.767 ng

RT: 28.856 min Scan# 4398

Delta R.T. 0.000 min

Lab File: BM049939.D

Acq: 15 Apr 2025 17:52

Tgt Ion:276 Resp: 1620931

Ion Ratio Lower Upper

276 100

277 24.8 18.7 28.1

138 16.8 14.6 21.8

