

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049971.D
 Acq On : 18 Apr 2025 18:25
 Operator : RC/JU
 Sample : Q1832-25 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-05

Quant Time: Apr 18 23:10:32 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)

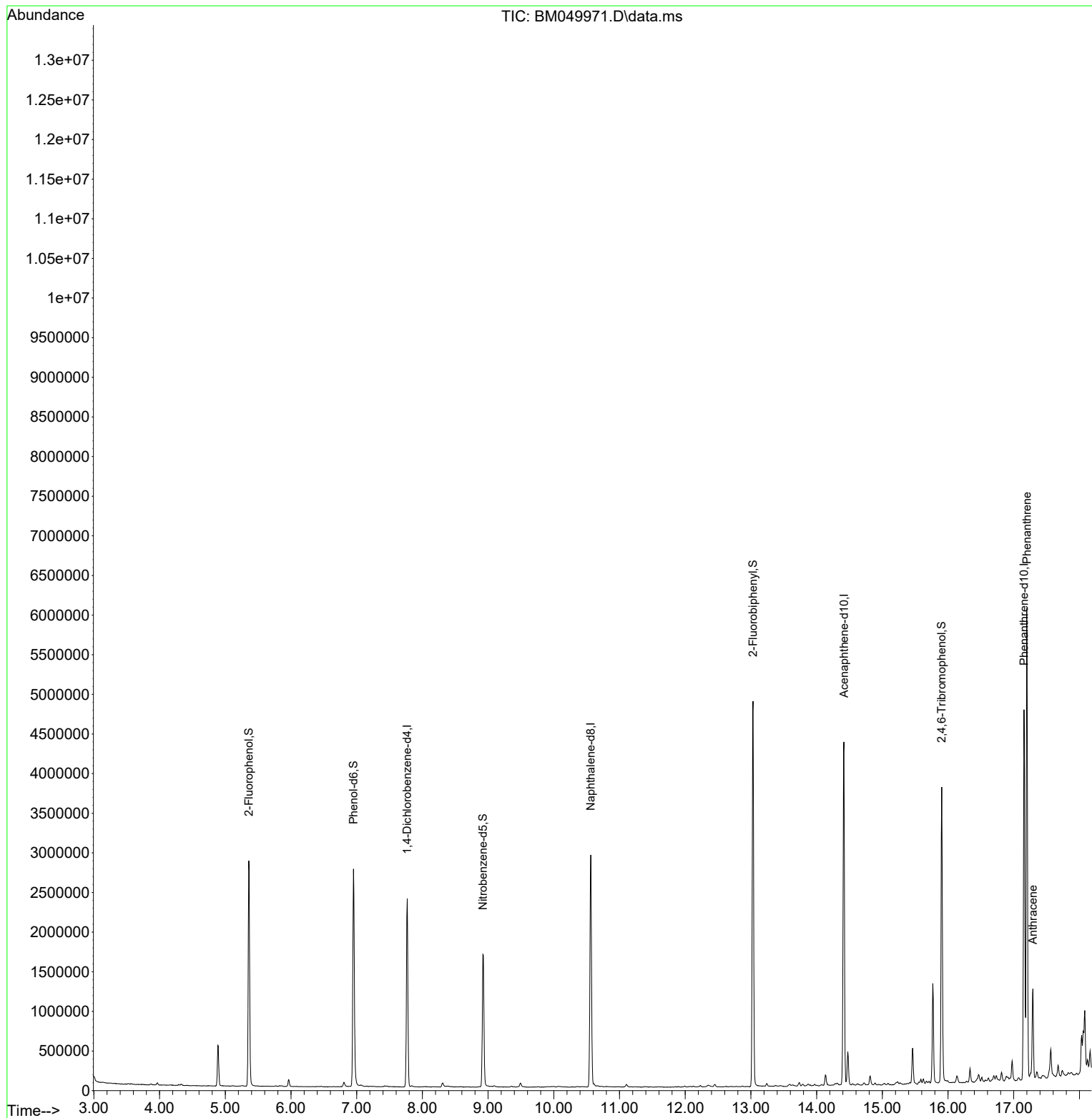
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	691554	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	2470538	20.000	ng	-0.01
39) Acenaphthene-d10	14.415	164	1613019	20.000	ng	0.00
64) Phenanthrene-d10	17.156	188	2811273	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1920903	20.000	ng	0.00
86) Perylene-d12	24.403	264	1923101	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	1334062	32.757	ng	0.00
7) Phenol-d6	6.951	99	1718964	33.924	ng	0.00
23) Nitrobenzene-d5	8.922	82	1014441	22.865	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	756844	32.258	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	2742435	23.055	ng	-0.01
79) Terphenyl-d14	19.780	244	2710074	26.440	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.198	178	3603431	23.380	ng	100
72) Anthracene	17.292	178	727221	4.788	ng	99
75) Fluoranthene	19.221	202	6708573	35.401	ng	99
78) Pyrene	19.580	202	5237570	39.563	ng	99
81) Benzo(a)anthracene	21.380	228	2271809	17.795	ng	98
83) Chrysene	21.438	228	2073372m	17.083	ng	
87) Indeno(1,2,3-cd)pyrene	27.791	276	1280542	8.933	ng	96
88) Benzo(b)fluoranthene	23.456	252	2697220	21.961	ng	98
89) Benzo(k)fluoranthene	23.509	252	849781	7.140	ng	96
90) Benzo(a)pyrene	24.262	252	1913750	17.732	ng	99
91) Dibenzo(a,h)anthracene	27.826	278	307002	2.600	ng	# 90
92) Benzo(g,h,i)perylene	28.844	276	1240394	10.280	ng	98

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

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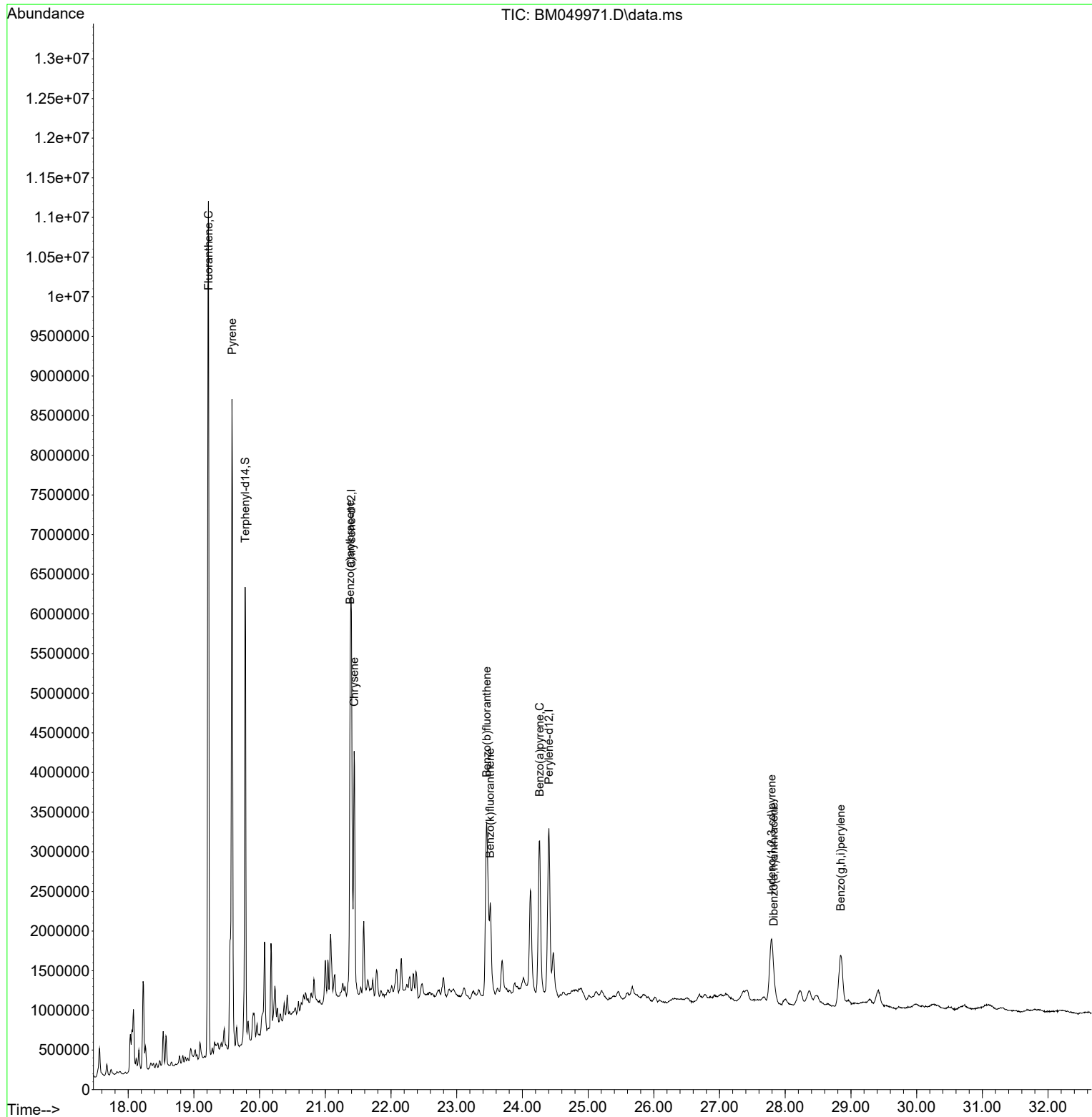
Quant Time: Apr 18 23:10:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

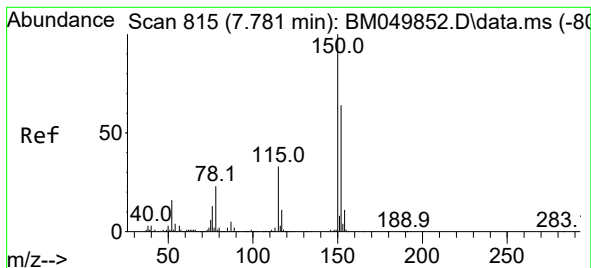


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049971.D
Acq On : 18 Apr 2025 18:25
Operator : RC/JU
Sample : Q1832-25 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-05

Quant Time: Apr 18 23:10:32 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

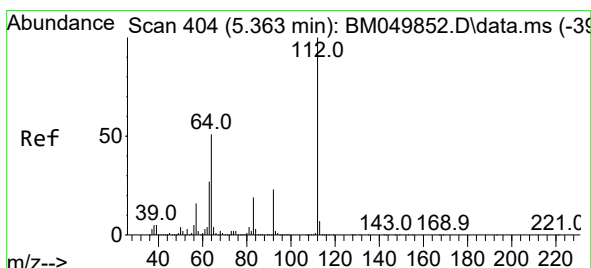
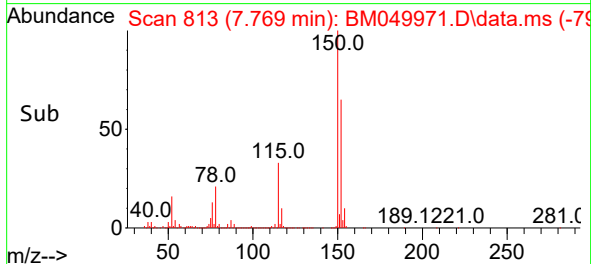
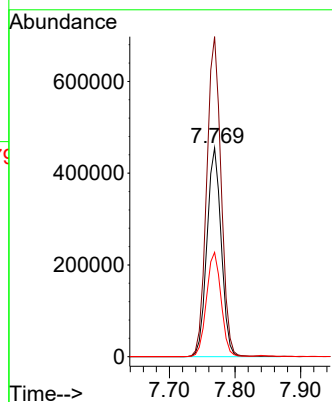
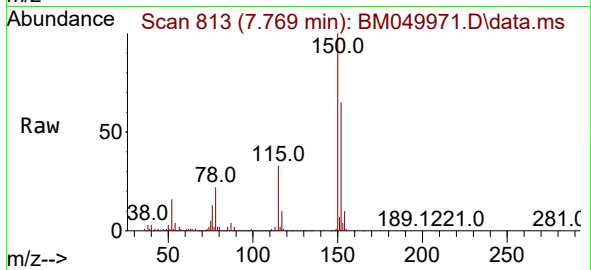




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

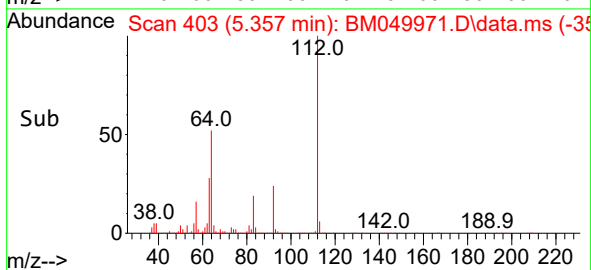
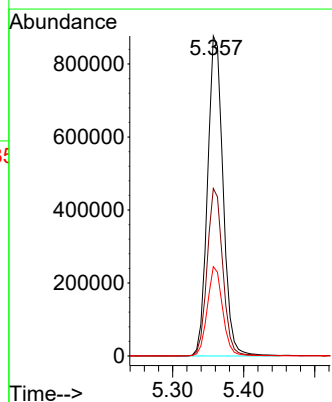
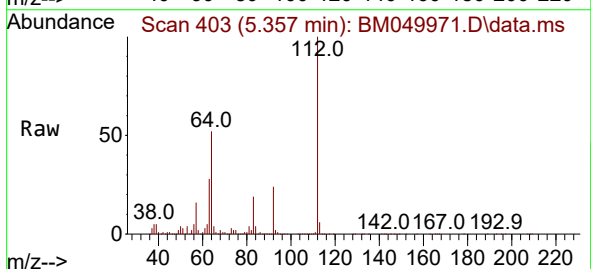
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-05

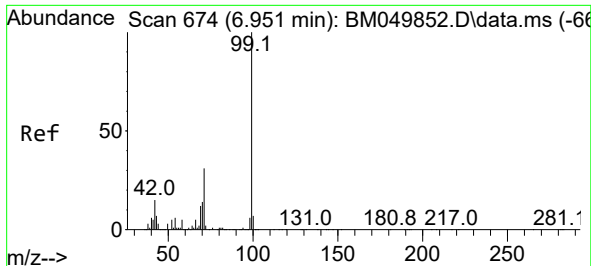
Tgt Ion:152 Resp: 691554
Ion Ratio Lower Upper
152 100
150 153.2 124.3 186.5
115 49.9 41.1 61.7



#5
2-Fluorophenol
Concen: 32.757 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

Tgt Ion:112 Resp: 1334062
Ion Ratio Lower Upper
112 100
64 52.4 41.0 61.6
63 27.9 21.5 32.3

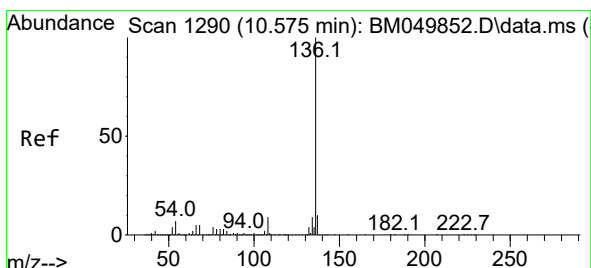
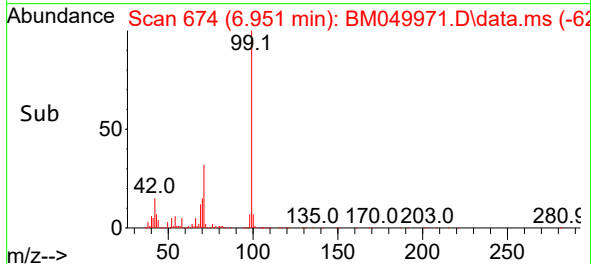
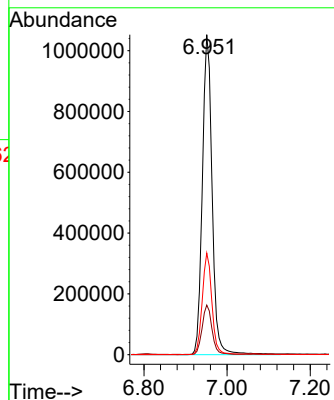
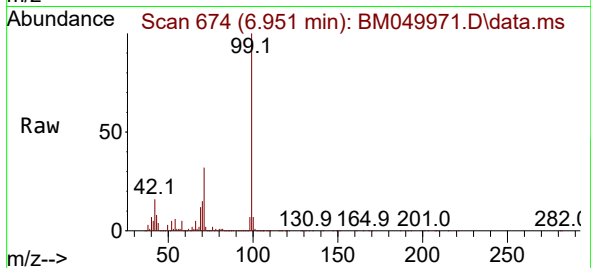




#7
Phenol-d6
Concen: 33.924 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

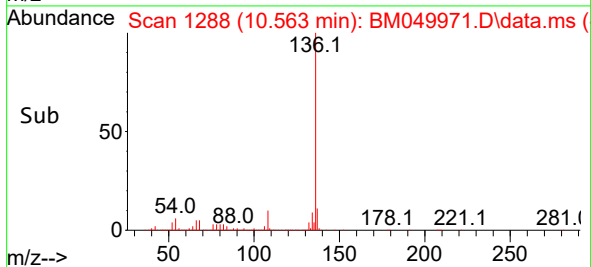
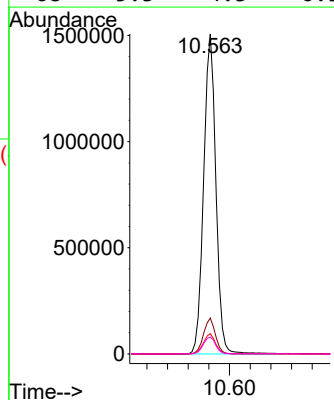
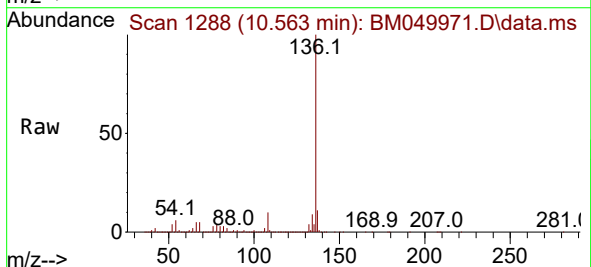
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-05

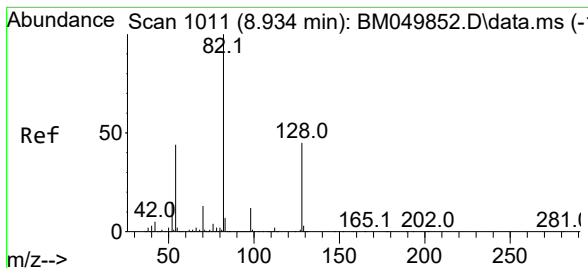
Tgt Ion: 99 Resp: 1718964
Ion Ratio Lower Upper
99 100
42 15.5 12.1 18.1
71 31.8 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.012 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

Tgt Ion: 136 Resp: 2470538
Ion Ratio Lower Upper
136 100
137 11.2 8.4 12.6
54 6.3 5.3 7.9
68 5.3 4.3 6.5

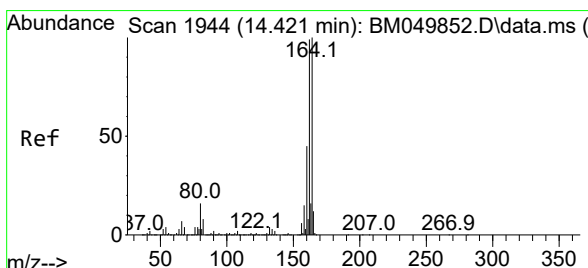
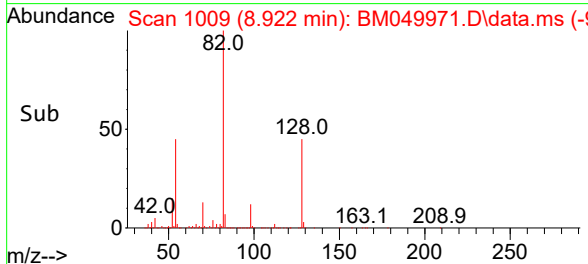
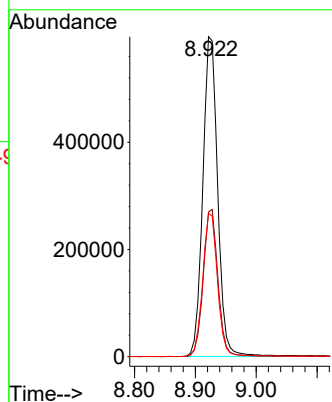
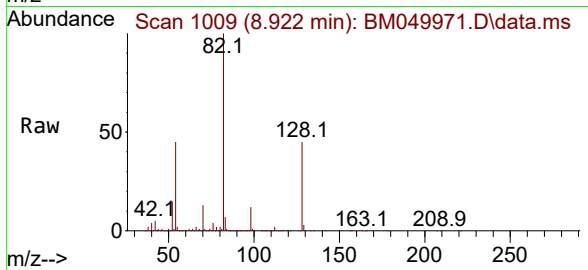




#23
Nitrobenzene-d5
Concen: 22.865 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

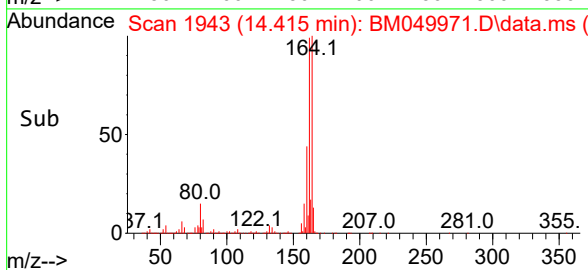
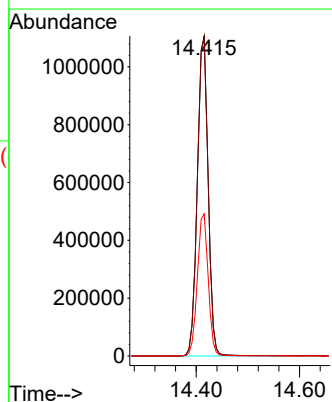
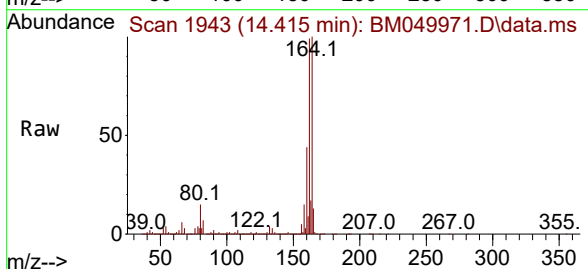
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-05

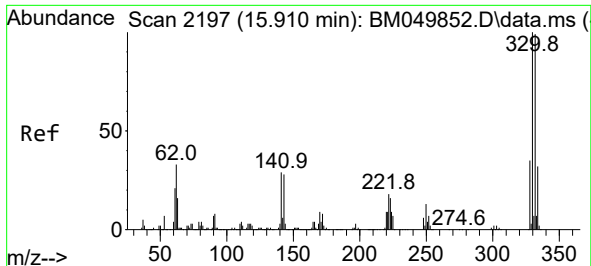
Tgt Ion: 82 Resp: 1014441
Ion Ratio Lower Upper
82 100
128 45.3 36.2 54.2
54 44.8 35.0 52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.415 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

Tgt Ion:164 Resp: 1613019
Ion Ratio Lower Upper
164 100
162 99.3 79.4 119.0
160 44.4 36.2 54.2

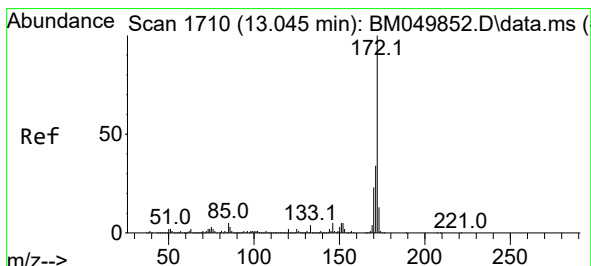
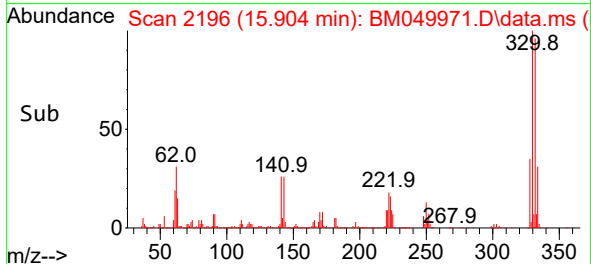
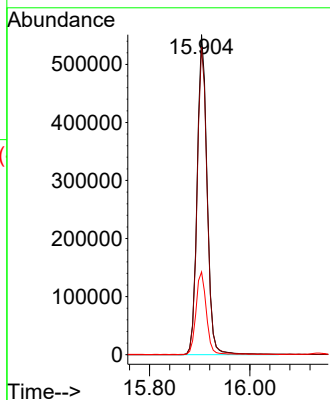
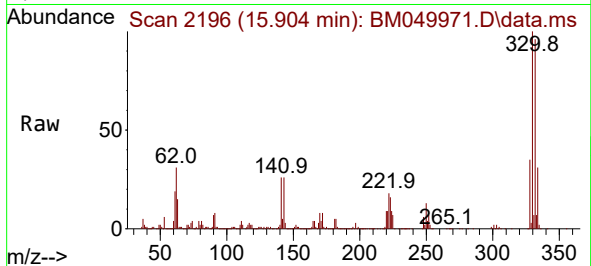




#42
2,4,6-Tribromophenol
Concen: 32.258 ng
RT: 15.904 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

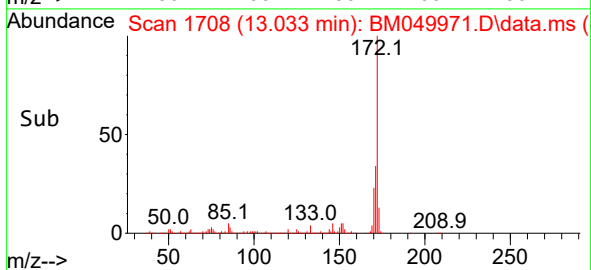
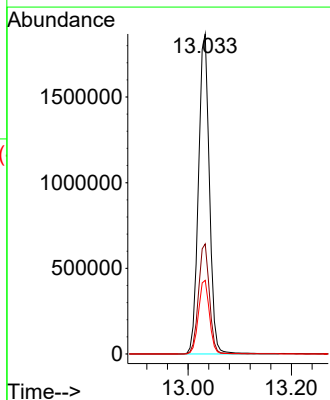
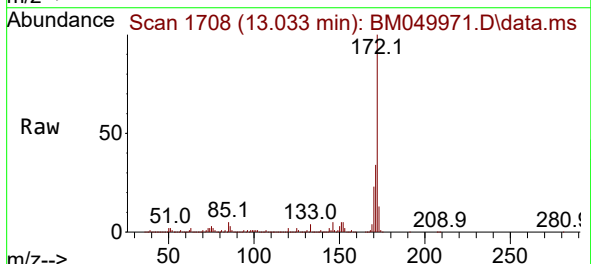
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-05

Tgt Ion:330 Resp: 756844
Ion Ratio Lower Upper
330 100
332 96.7 78.0 117.0
141 26.7 23.5 35.3



#45
2-Fluorobiphenyl
Concen: 23.055 ng
RT: 13.033 min Scan# 1708
Delta R.T. -0.012 min
Lab File: BM049971.D
Acq: 18 Apr 2025 18:25

Tgt Ion:172 Resp: 2742435
Ion Ratio Lower Upper
172 100
171 34.4 27.4 41.2
170 23.0 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.156 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-05

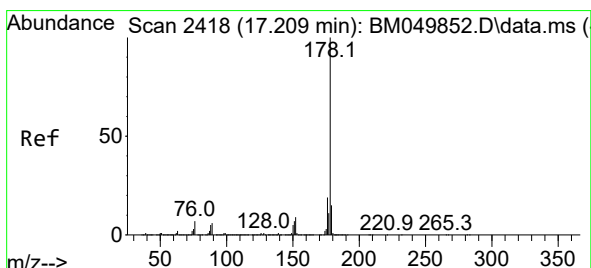
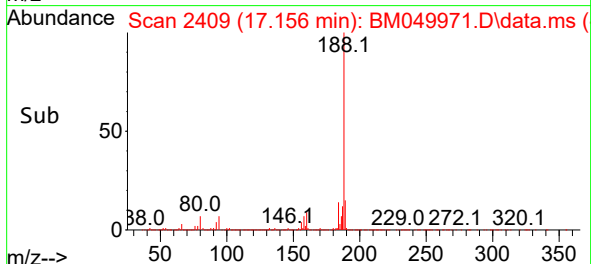
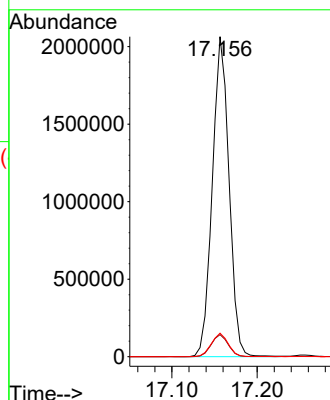
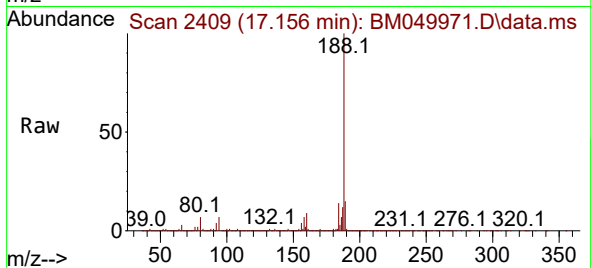
Tgt Ion:188 Resp: 2811273

Ion Ratio Lower Upper

188 100

94 6.9 5.8 8.6

80 7.3 6.4 9.6



#71

Phenanthrene

Concen: 23.380 ng

RT: 17.198 min Scan# 2416

Delta R.T. -0.012 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

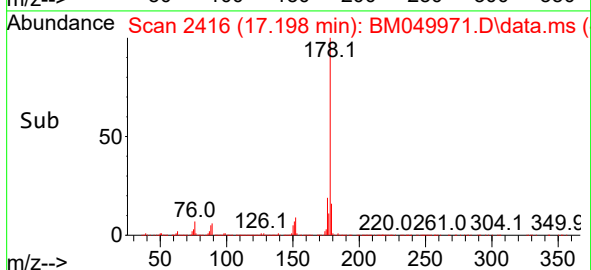
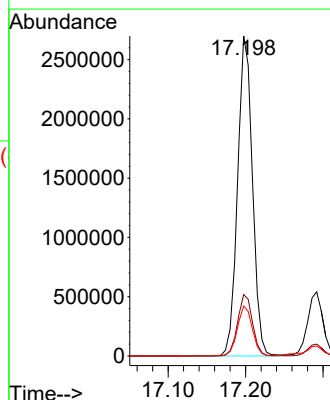
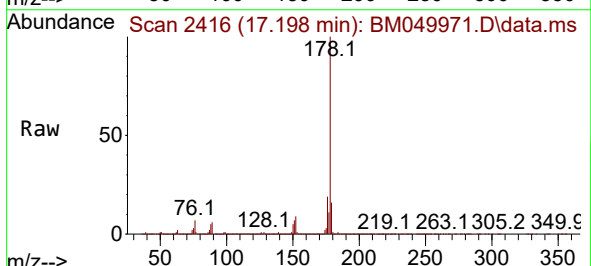
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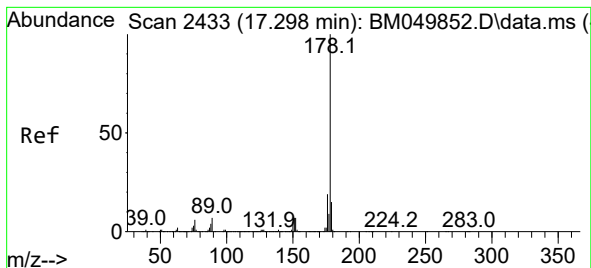
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.6 12.3 18.5





#72

Anthracene

Concen: 4.788 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-05

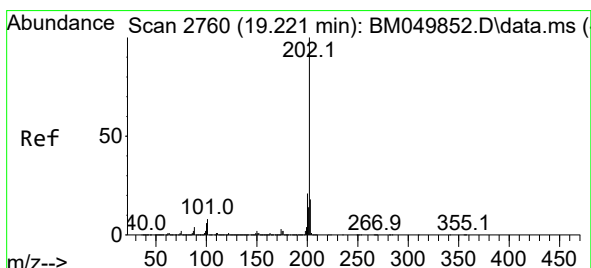
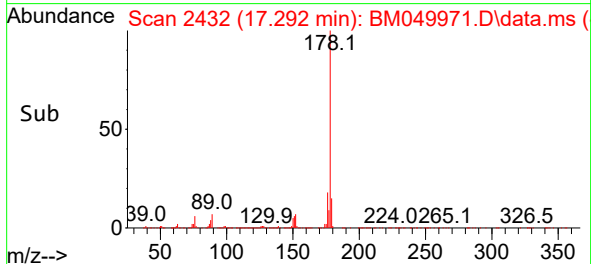
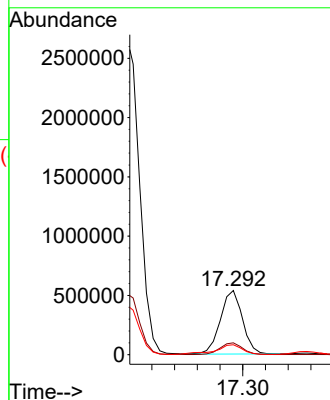
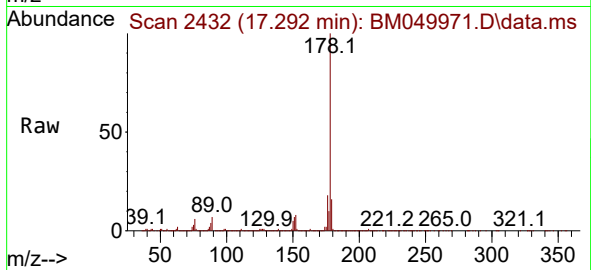
Tgt Ion:178 Resp: 727221

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

179 15.5 12.4 18.6



#75

Fluoranthene

Concen: 35.401 ng

RT: 19.221 min Scan# 2760

Delta R.T. -0.000 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

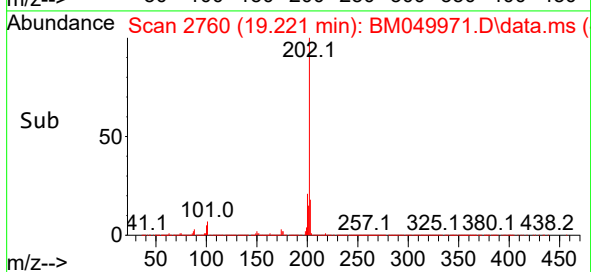
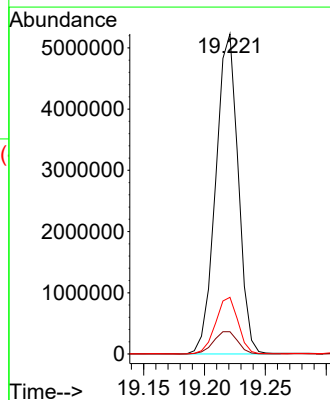
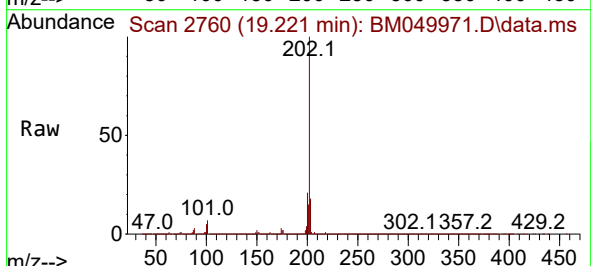
Tgt Ion:202 Resp: 6708573

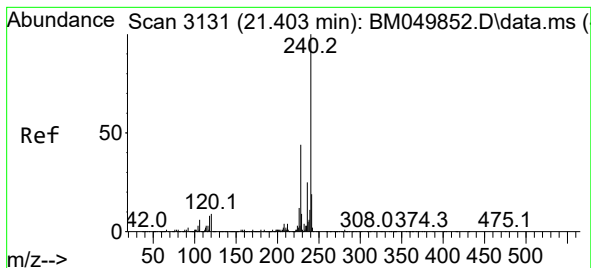
Ion Ratio Lower Upper

202 100

101 7.0 0.0 28.4

203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

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BNA_M

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PL-714-COMP-05

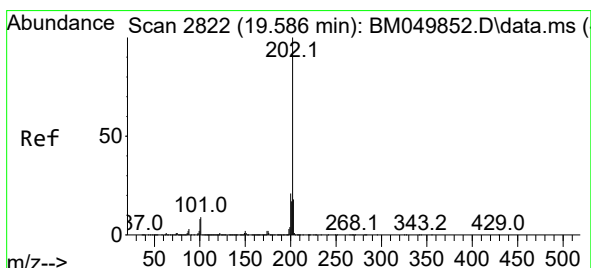
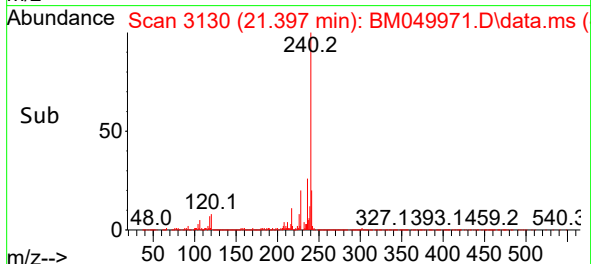
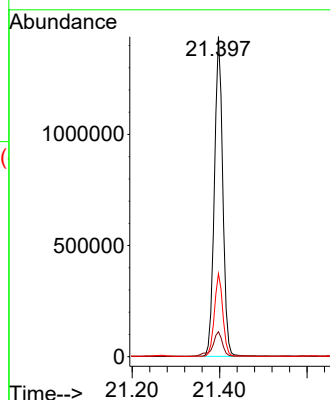
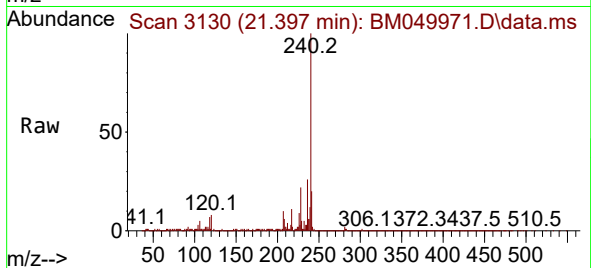
Tgt Ion:240 Resp: 1920903

Ion Ratio Lower Upper

240 100

120 7.8 6.9 10.3

236 26.0 20.4 30.6



#78

Pyrene

Concen: 39.563 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

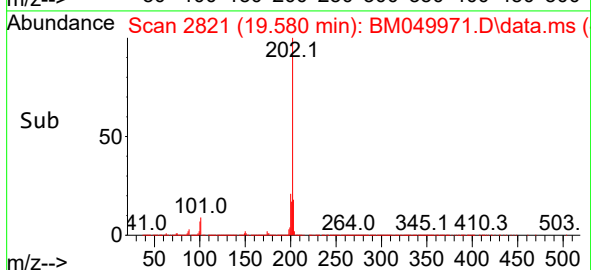
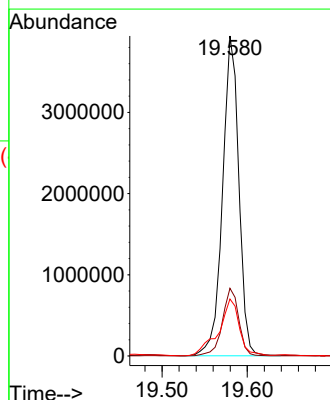
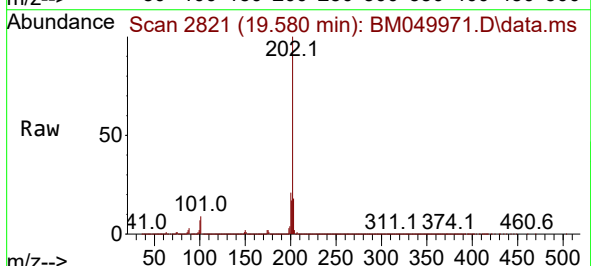
Tgt Ion:202 Resp: 5237570

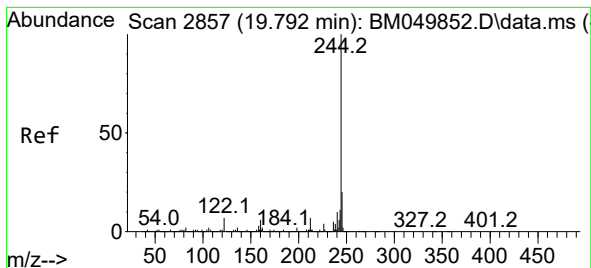
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 17.8 14.0 21.0





#79

Terphenyl-d14

Concen: 26.440 ng

RT: 19.780 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-05

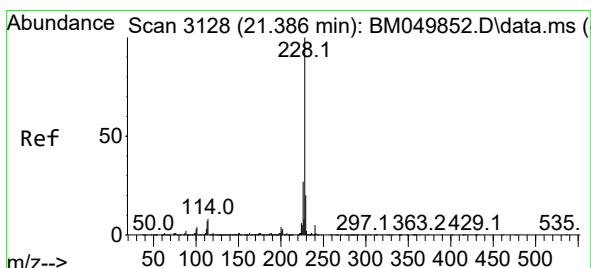
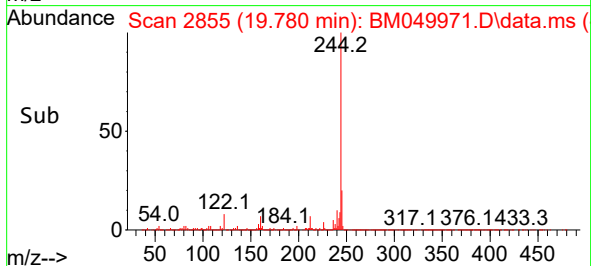
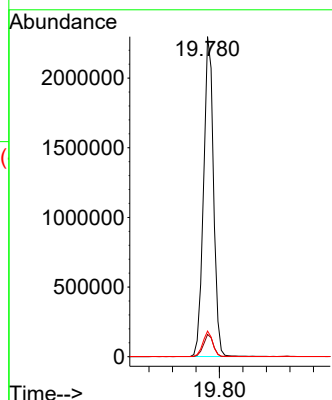
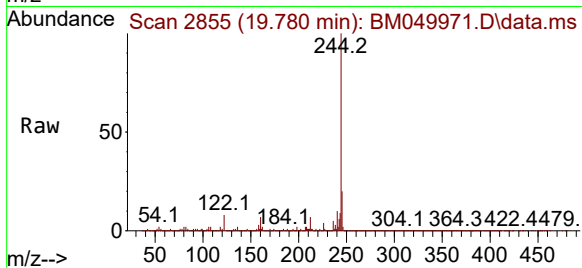
Tgt Ion:244 Resp: 2710074

Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 8.0 5.4 8.0



#81

Benzo(a)anthracene

Concen: 17.795 ng

RT: 21.380 min Scan# 3127

Delta R.T. -0.006 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

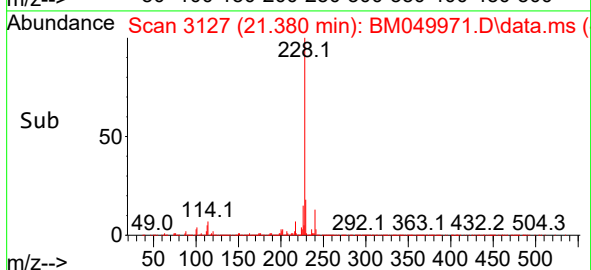
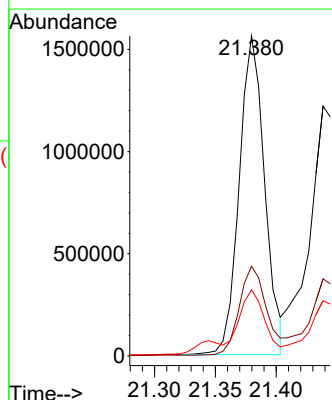
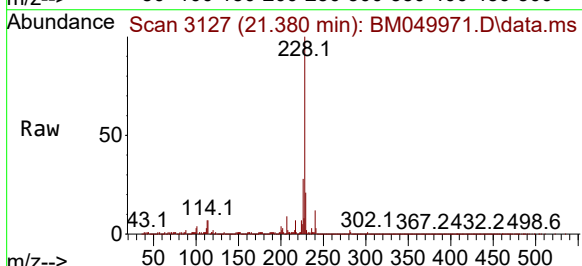
Tgt Ion:228 Resp: 2271809

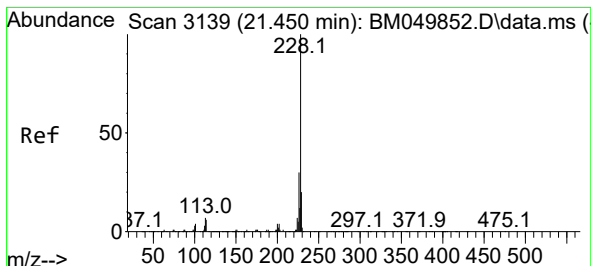
Ion Ratio Lower Upper

228 100

226 28.1 21.8 32.8

229 20.7 15.8 23.8





#83

Chrysene

Concen: 17.083 ng m

RT: 21.438 min Scan# 31

Delta R.T. -0.012 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-05

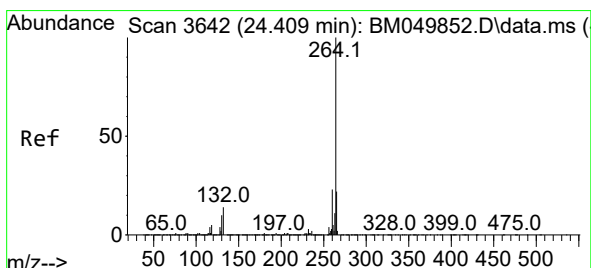
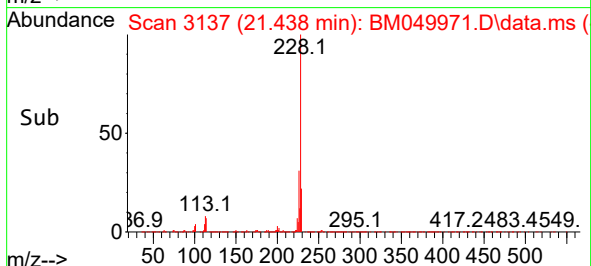
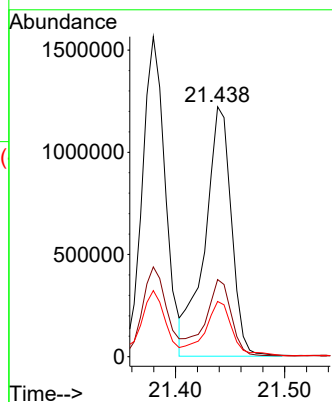
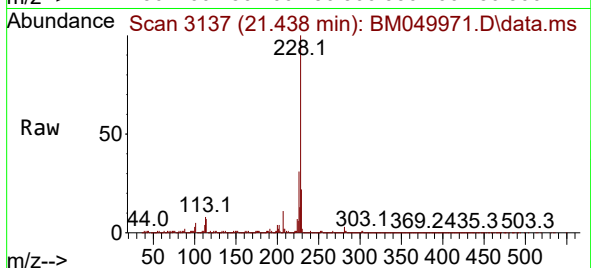
Tgt Ion:228 Resp: 2073372

Ion Ratio Lower Upper

228 100

226 30.9 24.1 36.1

229 22.1 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: BM049971.D

Acq: 18 Apr 2025 18:25

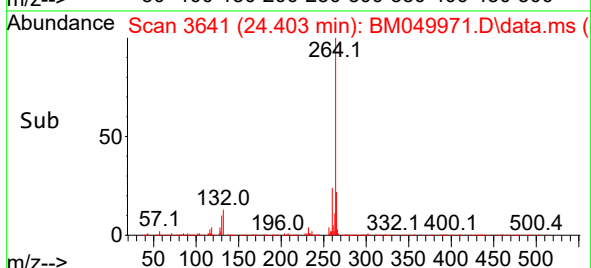
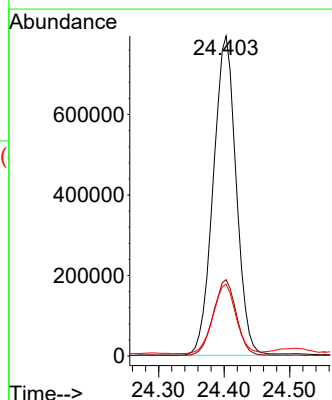
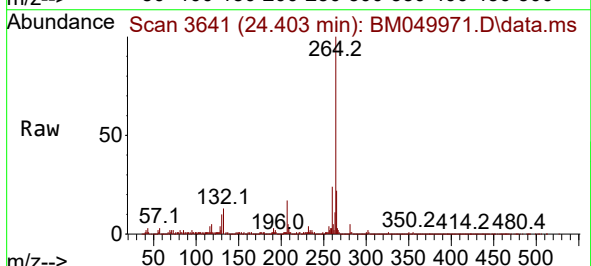
Tgt Ion:264 Resp: 1923101

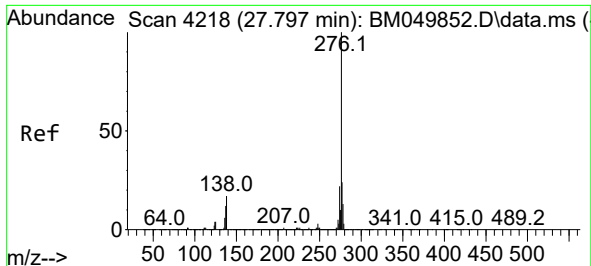
Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 22.4 17.8 26.8

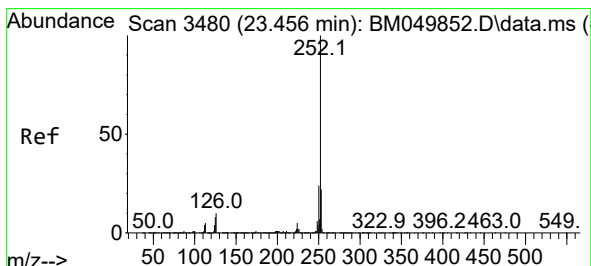
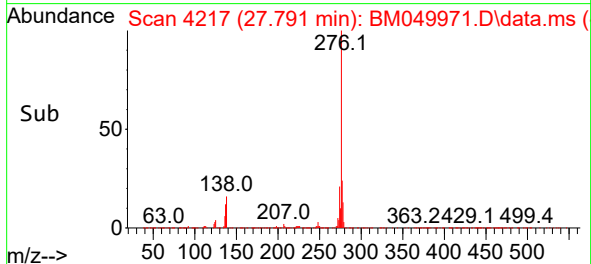
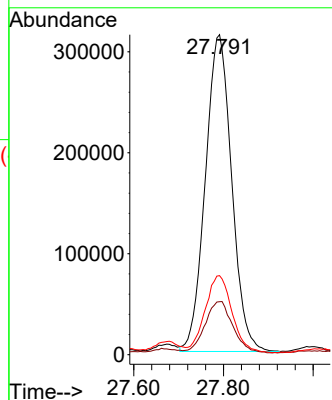
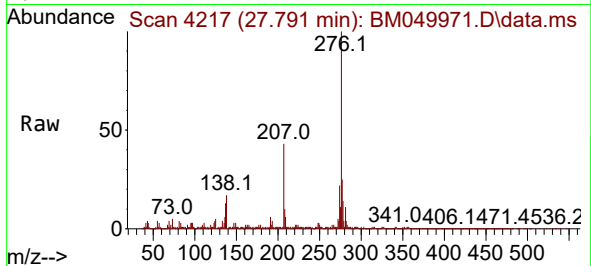




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 8.933 ng
 RT: 27.791 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: BM049971.D
 Acq: 18 Apr 2025 18:25

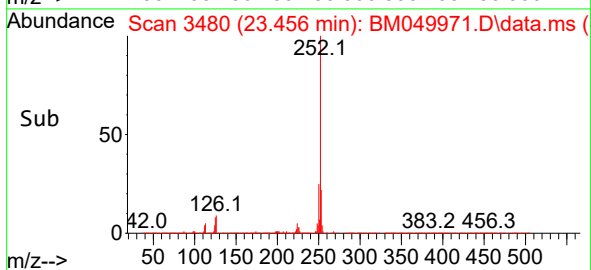
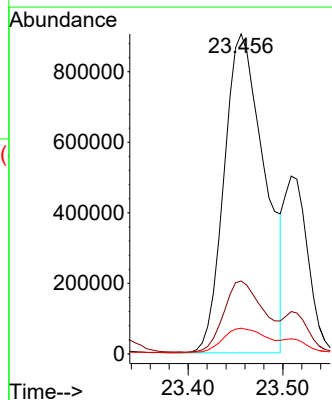
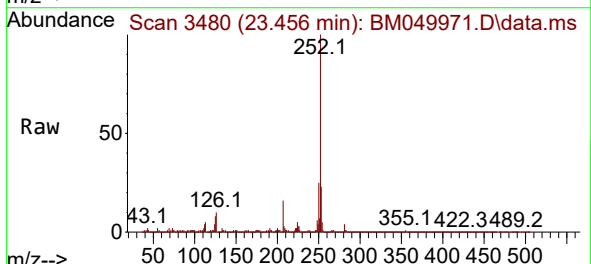
Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-05

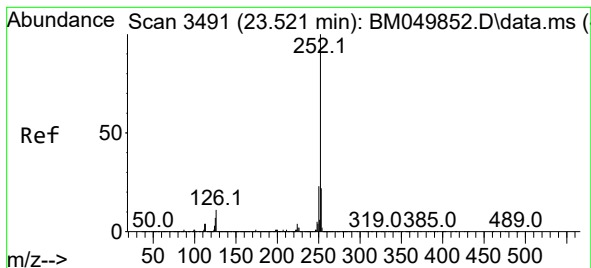
Tgt Ion:276 Resp: 1280542
 Ion Ratio Lower Upper
 276 100
 138 17.2 16.8 25.2
 277 24.8 20.1 30.1



#88
 Benzo(b)fluoranthene
 Concen: 21.961 ng
 RT: 23.456 min Scan# 3480
 Delta R.T. -0.000 min
 Lab File: BM049971.D
 Acq: 18 Apr 2025 18:25

Tgt Ion:252 Resp: 2697220
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.5 26.3
 125 8.1 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 7.140 ng

RT: 23.509 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-05

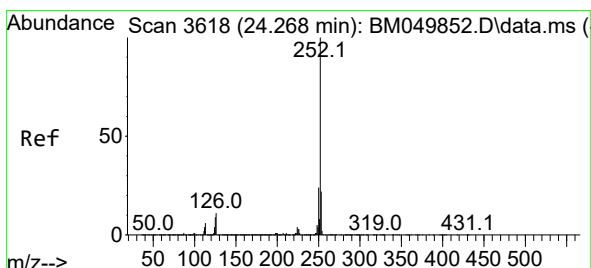
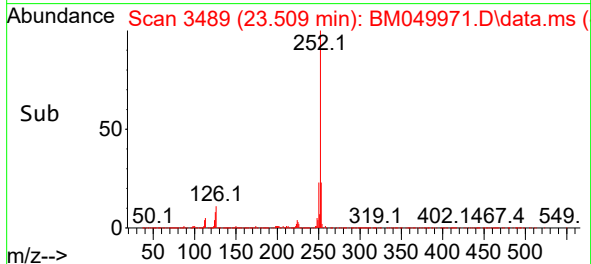
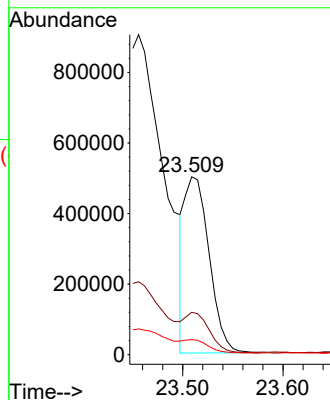
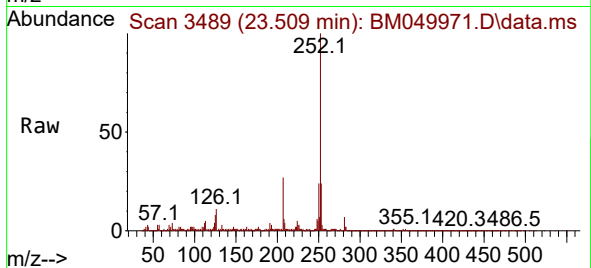
Tgt Ion:252 Resp: 849781

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.2

125 8.4 5.8 8.8



#90

Benzo(a)pyrene

Concen: 17.732 ng

RT: 24.262 min Scan# 3617

Delta R.T. -0.006 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

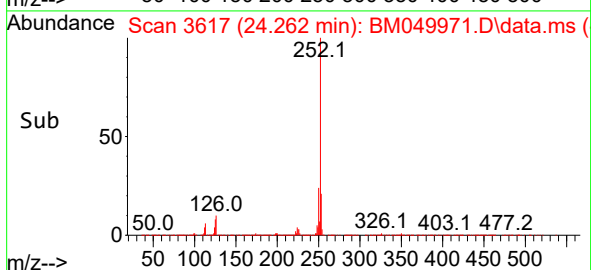
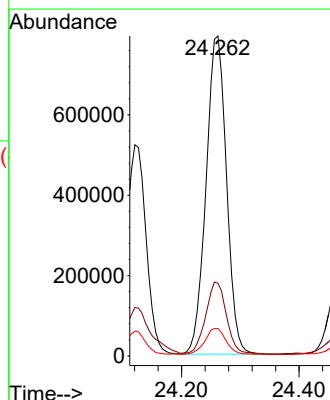
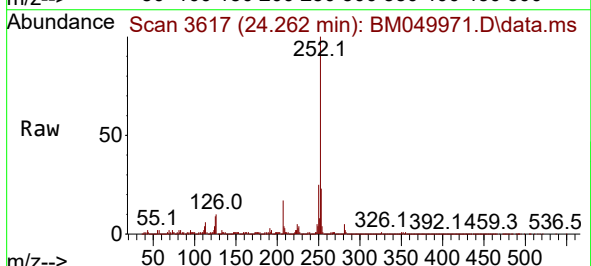
Tgt Ion:252 Resp: 1913750

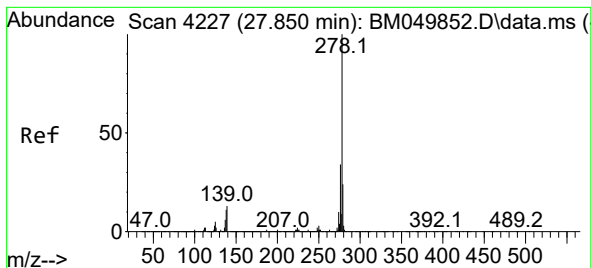
Ion Ratio Lower Upper

252 100

253 22.7 17.8 26.8

125 8.6 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 2.600 ng

RT: 27.826 min Scan# 41

Delta R.T. -0.024 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-05

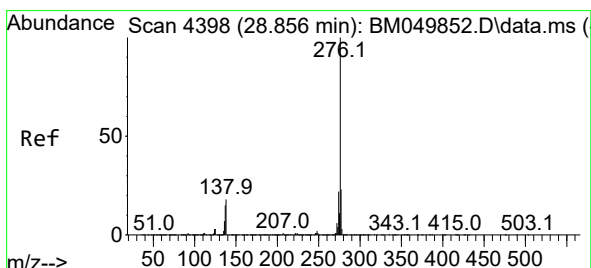
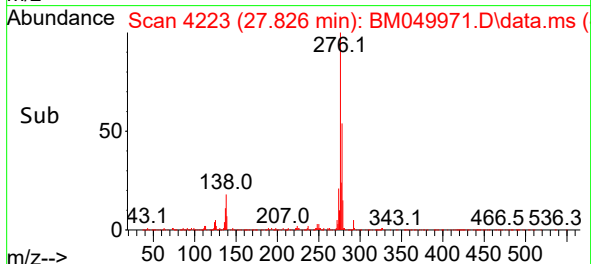
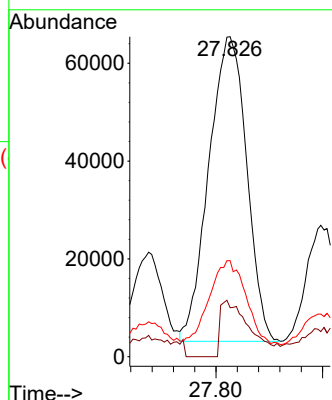
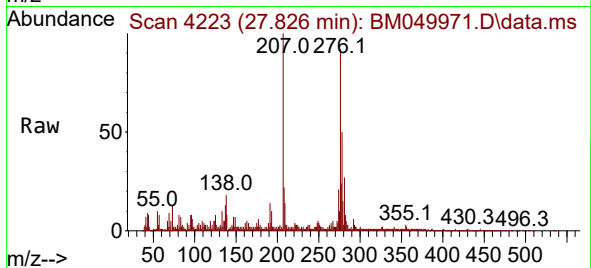
Tgt Ion:278 Resp: 307002

Ion Ratio Lower Upper

278 100

139 15.3 10.6 15.8

279 30.0 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 10.280 ng

RT: 28.844 min Scan# 4396

Delta R.T. -0.012 min

Lab File: BM049971.D

Acq: 18 Apr 2025 18:25

Tgt Ion:276 Resp: 1240394

Ion Ratio Lower Upper

276 100

277 24.2 18.7 28.1

138 16.7 14.6 21.8

