

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049970.D
 Acq On : 18 Apr 2025 17:45
 Operator : RC/JU
 Sample : Q1826-01 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILE

Quant Time: Apr 18 18:46:54 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)

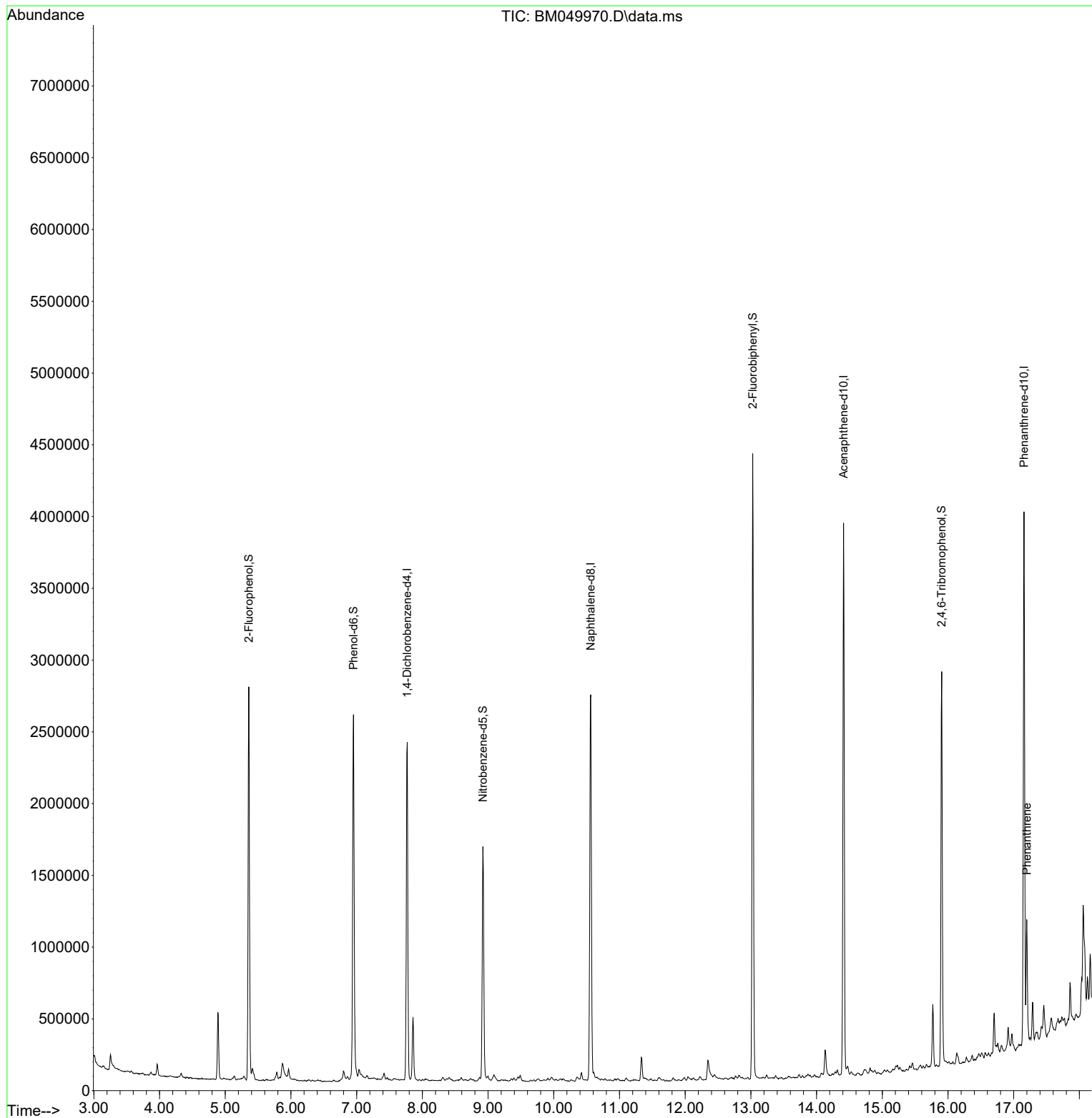
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	708487	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	2385213	20.000	ng	-0.01
39) Acenaphthene-d10	14.410	164	1394344	20.000	ng	-0.01
64) Phenanthrene-d10	17.157	188	2263438	20.000	ng	0.00
76) Chrysene-d12	21.398	240	1920061	20.000	ng	0.00
86) Perylene-d12	24.403	264	2049583	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.358	112	1239150	29.699	ng	0.00
7) Phenol-d6	6.952	99	1592094	30.670	ng	0.00
23) Nitrobenzene-d5	8.922	82	967114	22.578	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	577871	28.493	ng	0.00
45) 2-Fluorobiphenyl	13.028	172	2392900	23.271	ng	-0.02
79) Terphenyl-d14	19.780	244	2179780	21.275	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.198	178	532507	4.291	ng	100
75) Fluoranthene	19.216	202	1486099	9.740	ng	100
78) Pyrene	19.580	202	1780812	13.458	ng	99
81) Benzo(a)anthracene	21.380	228	963959	7.554	ng	97
83) Chrysene	21.439	228	889671	7.333	ng	97
84) Bis(2-ethylhexyl)phtha...	21.298	149	336280	4.642	ng	99
87) Indeno(1,2,3-cd)pyrene	27.791	276	627337	4.106	ng	97
88) Benzo(b)fluoranthene	23.456	252	1152752	8.806	ng	# 95
89) Benzo(k)fluoranthene	23.509	252	422411m	3.330	ng	
90) Benzo(a)pyrene	24.256	252	924819	8.040	ng	# 96
92) Benzo(g,h,i)perylene	28.850	276	687224	5.344	ng	97

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

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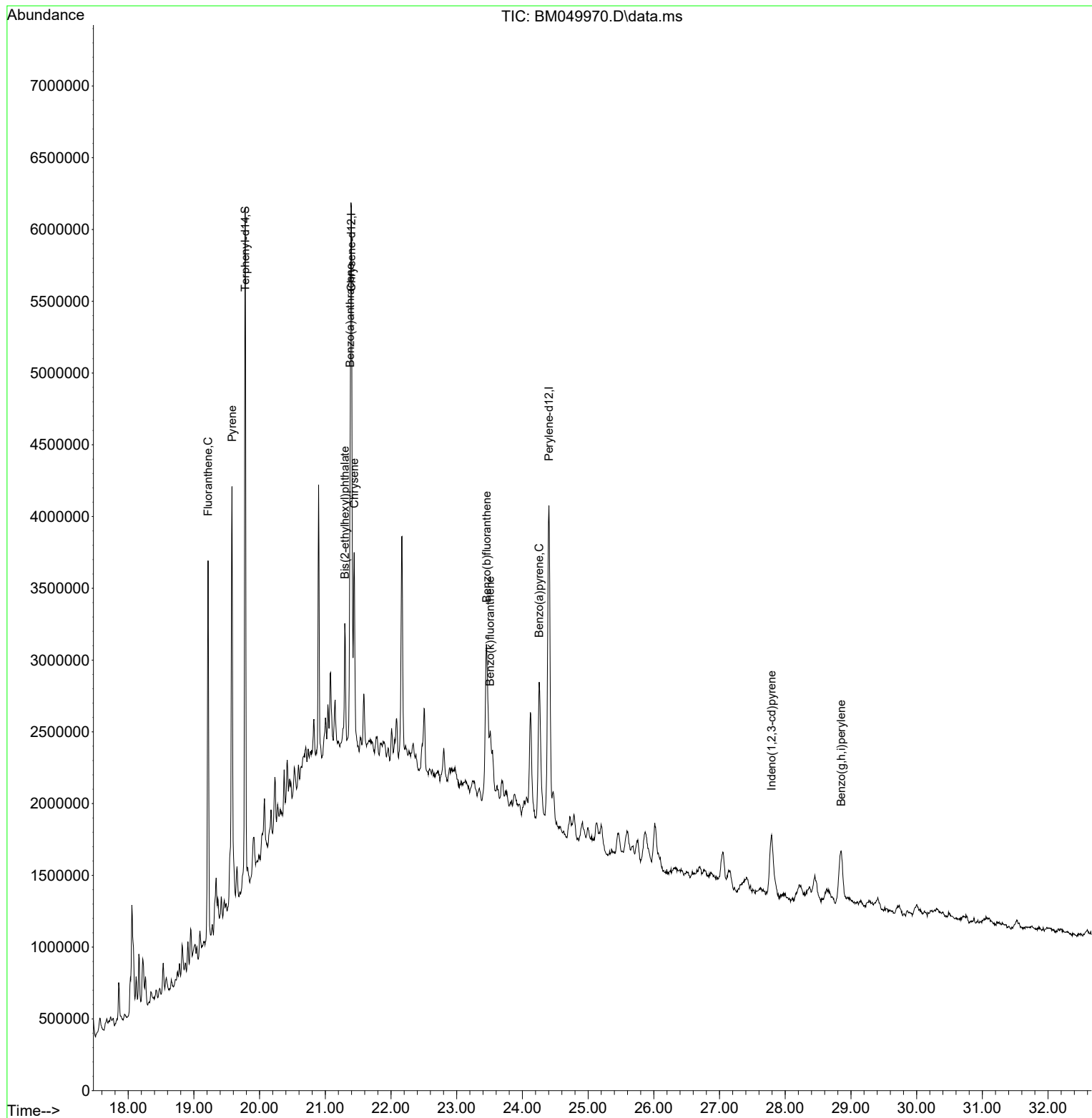
Quant Time: Apr 18 18:46:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
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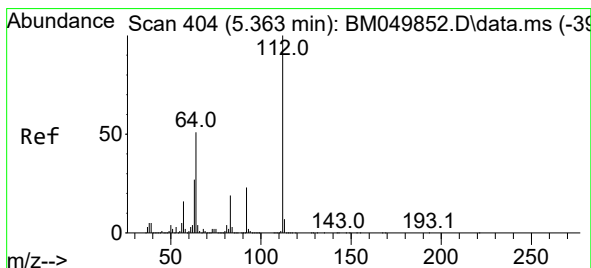
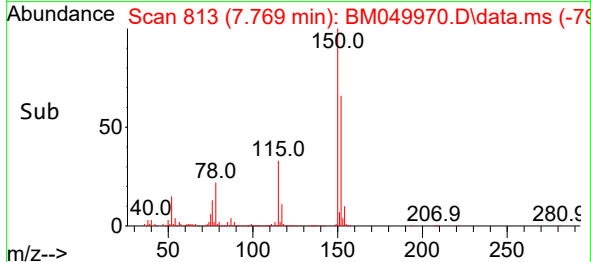
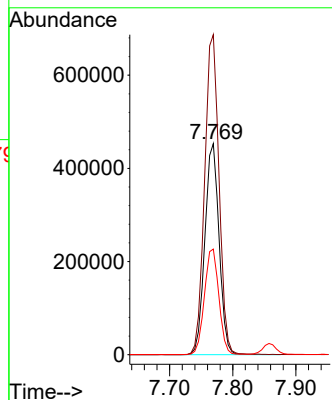
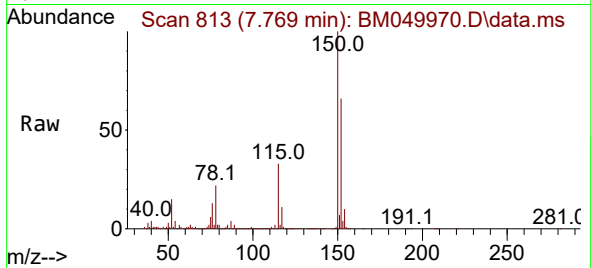




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

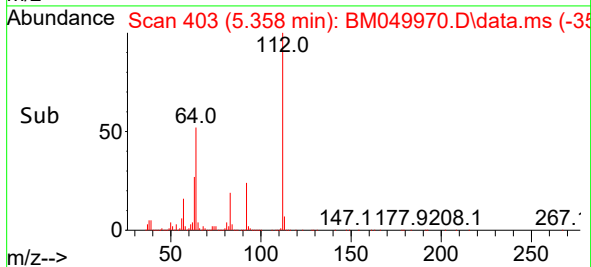
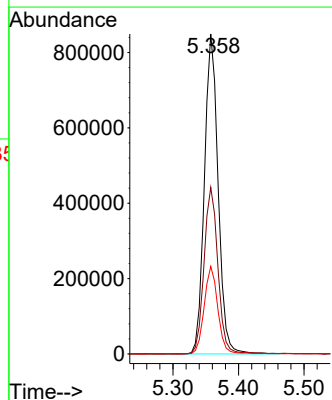
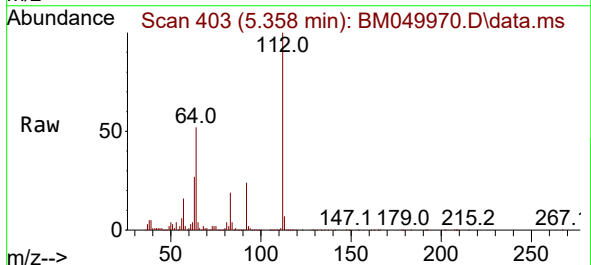
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

Tgt Ion:152 Resp: 708487
Ion Ratio Lower Upper
152 100
150 151.7 124.3 186.5
115 50.1 41.1 61.7



#5
2-Fluorophenol
Concen: 29.699 ng
RT: 5.358 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:112 Resp: 1239150
Ion Ratio Lower Upper
112 100
64 52.1 41.0 61.6
63 27.4 21.5 32.3

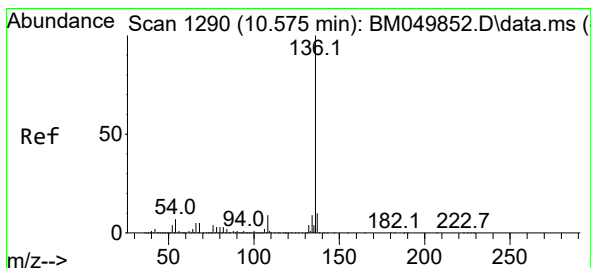
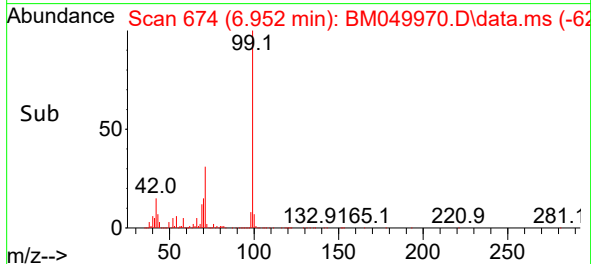
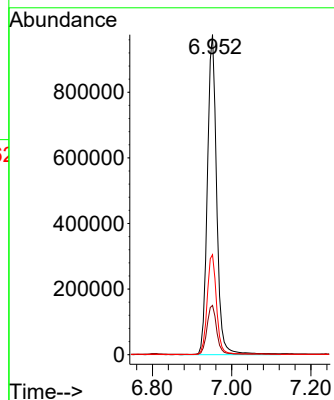
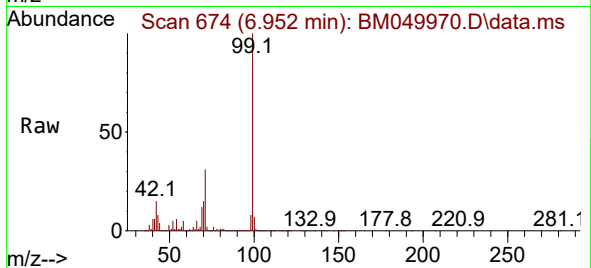




#7
Phenol-d6
Concen: 30.670 ng
RT: 6.952 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

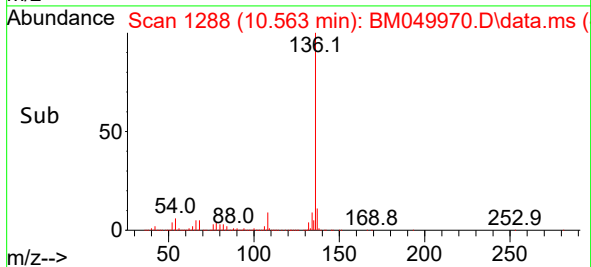
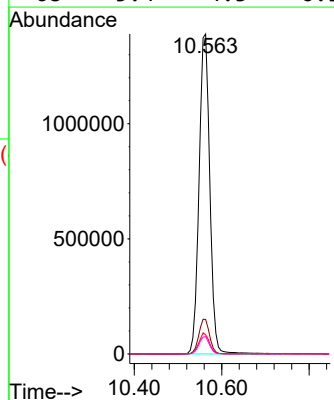
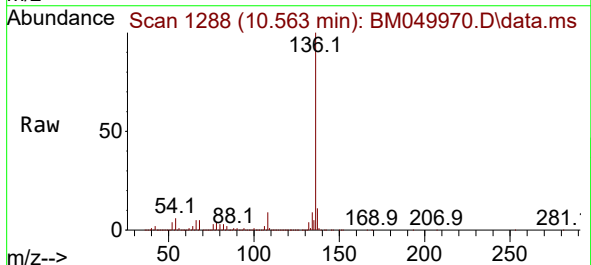
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

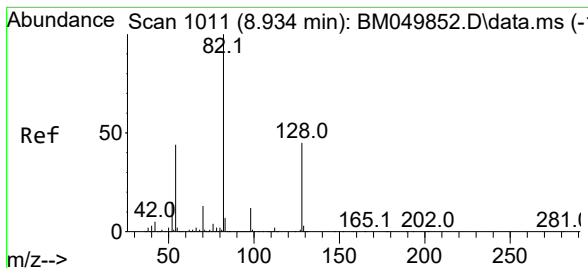
Tgt Ion: 99 Resp: 1592094
Ion Ratio Lower Upper
99 100
42 15.4 12.1 18.1
71 31.2 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.563 min Scan# 1288
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion: 136 Resp: 2385213
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 6.0 5.3 7.9
68 5.4 4.3 6.5

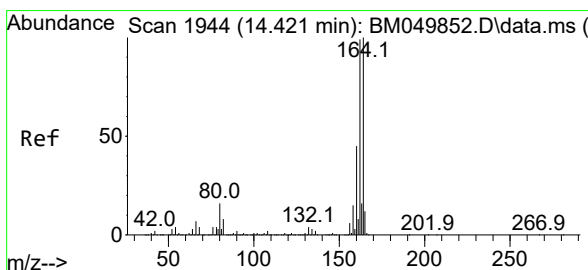
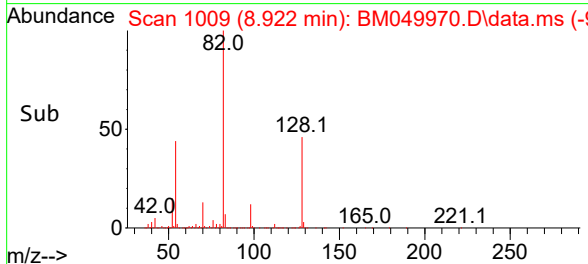
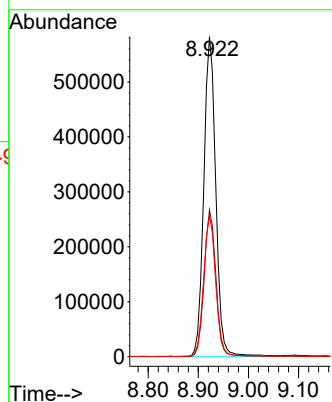
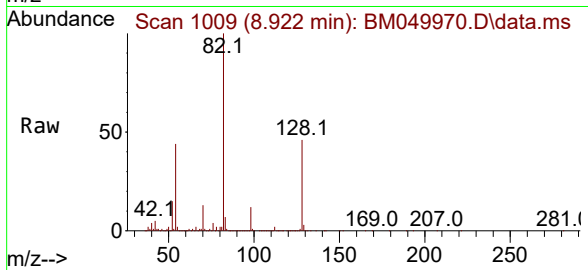




#23
Nitrobenzene-d5
Concen: 22.578 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

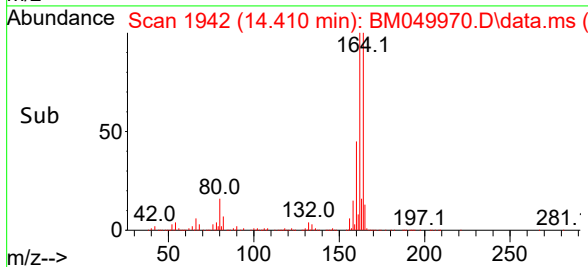
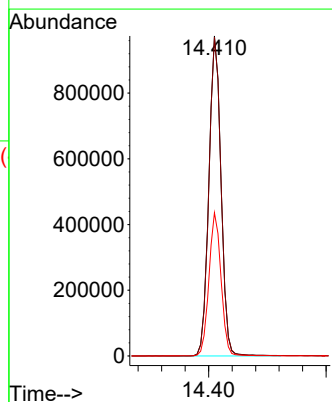
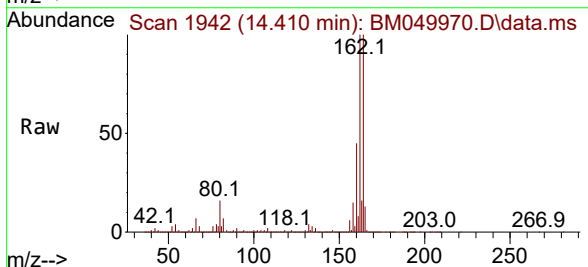
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

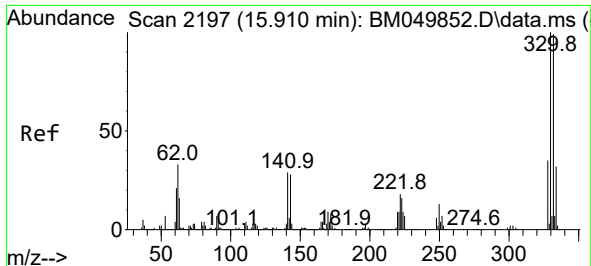
Tgt Ion: 82 Resp: 967114
Ion Ratio Lower Upper
82 100
128 45.9 36.2 54.2
54 43.9 35.0 52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:164 Resp: 1394344
Ion Ratio Lower Upper
164 100
162 99.6 79.4 119.0
160 44.7 36.2 54.2

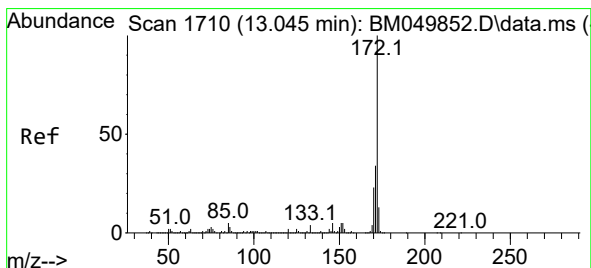
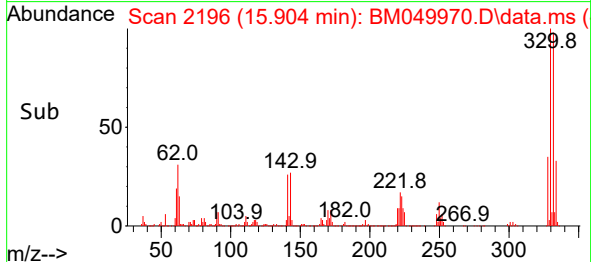
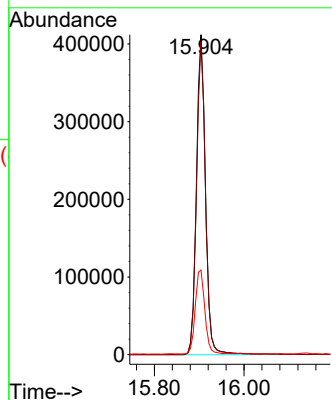
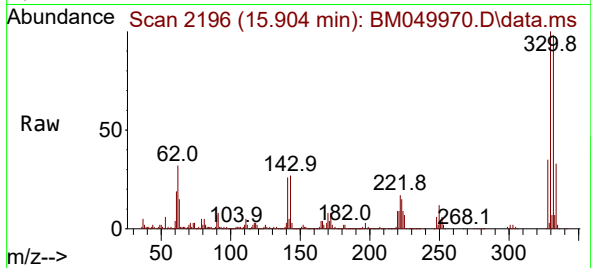




#42
2,4,6-Tribromophenol
Concen: 28.493 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

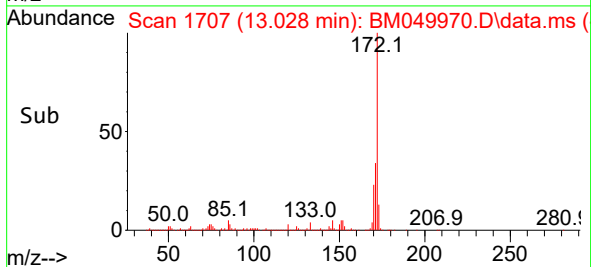
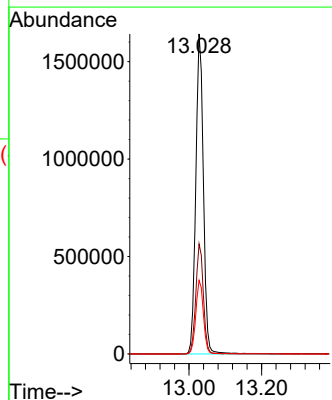
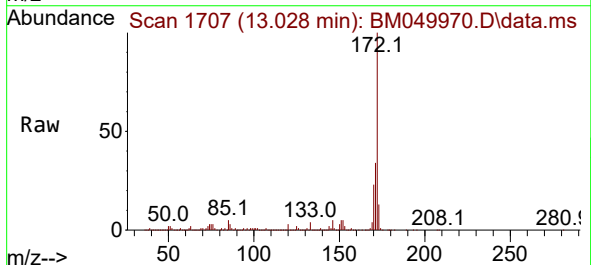
Instrument :
BNA_M
ClientSampleId :
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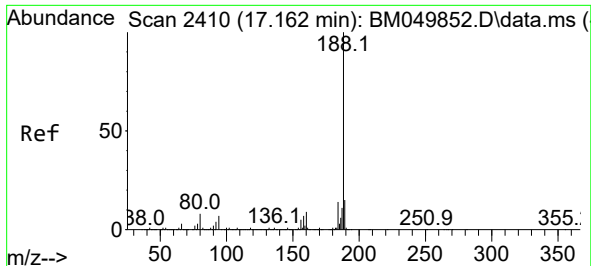
Tgt Ion:330 Resp: 577871
Ion Ratio Lower Upper
330 100
332 96.7 78.0 117.0
141 27.7 23.5 35.3



#45
2-Fluorobiphenyl
Concen: 23.271 ng
RT: 13.028 min Scan# 1707
Delta R.T. -0.017 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:172 Resp: 2392900
Ion Ratio Lower Upper
172 100
171 34.4 27.4 41.2
170 23.0 18.6 28.0

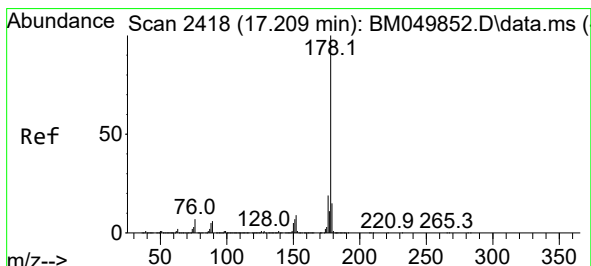
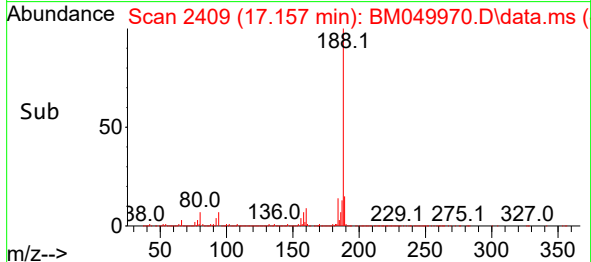
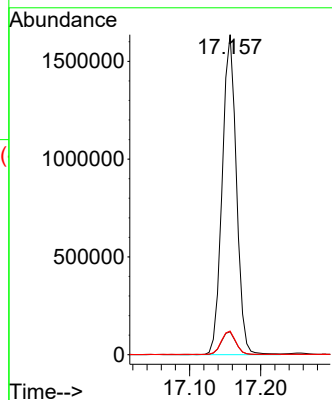
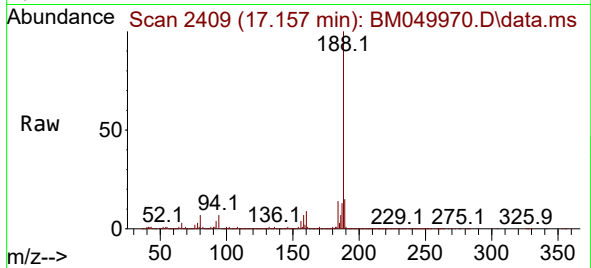




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.157 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

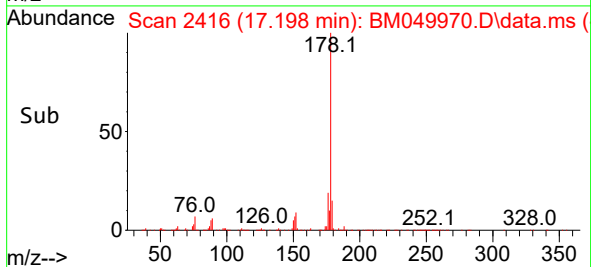
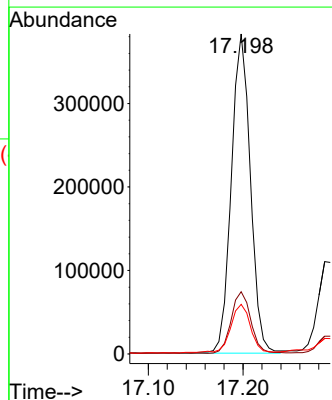
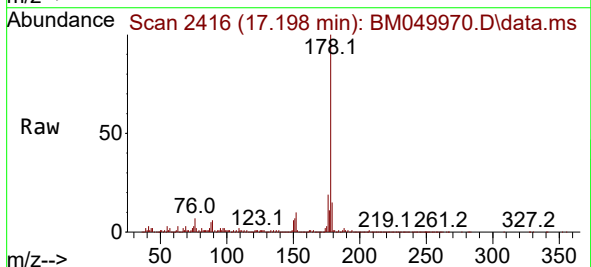
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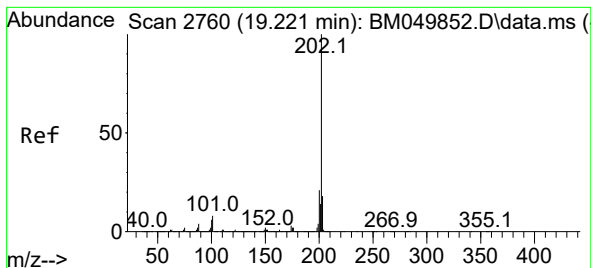
Tgt Ion:188 Resp: 2263438
Ion Ratio Lower Upper
188 100
94 7.2 5.8 8.6
80 7.4 6.4 9.6



#71
Phenanthrene
Concen: 4.291 ng
RT: 17.198 min Scan# 2416
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:178 Resp: 532507
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 15.5 12.3 18.5





#75

Fluoranthene

Concen: 9.740 ng

RT: 19.216 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

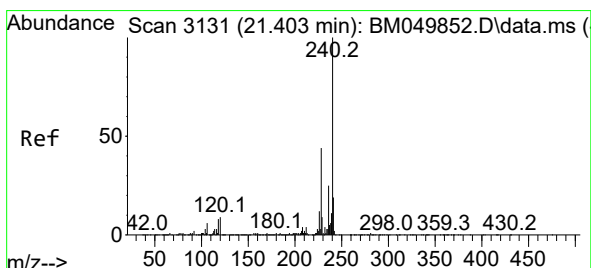
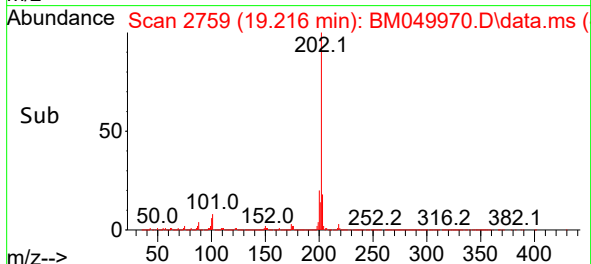
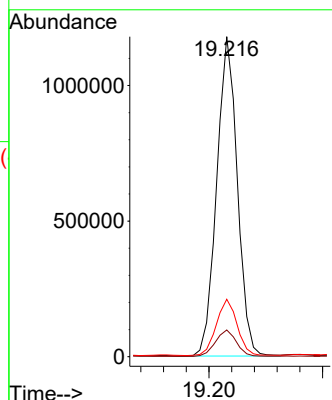
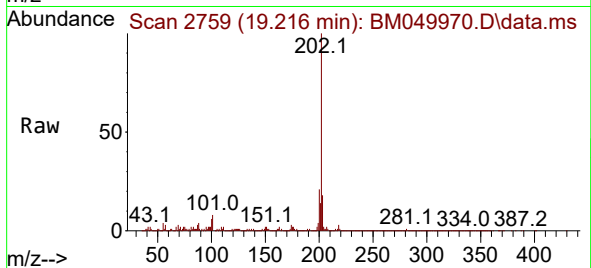
Tgt Ion:202 Resp: 1486099

Ion Ratio Lower Upper

202 100

101 8.4 0.0 28.4

203 18.0 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.398 min Scan# 3130

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

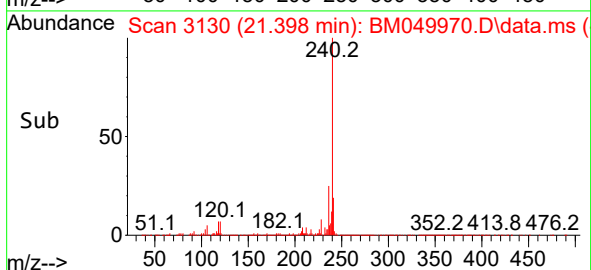
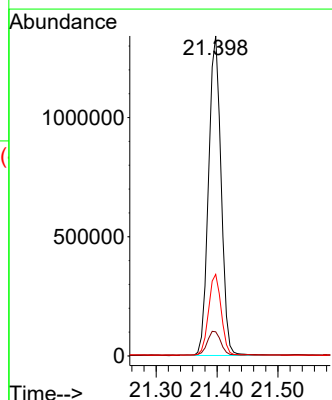
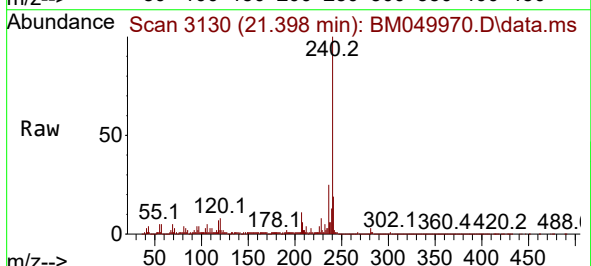
Tgt Ion:240 Resp: 1920061

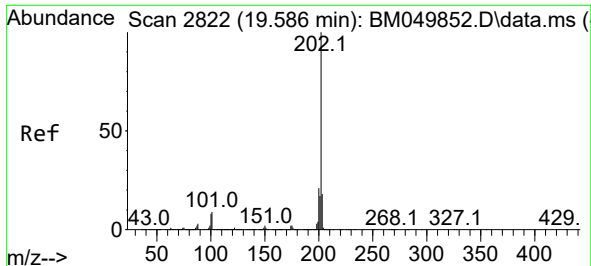
Ion Ratio Lower Upper

240 100

120 7.6 6.9 10.3

236 25.5 20.4 30.6

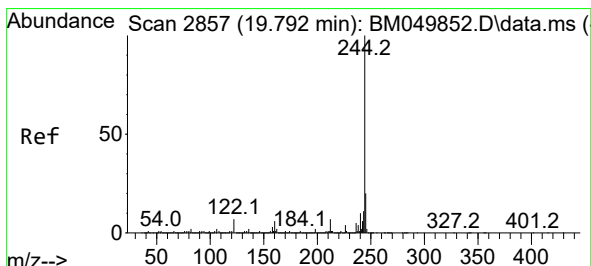
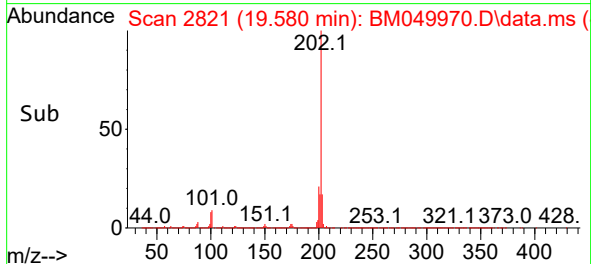
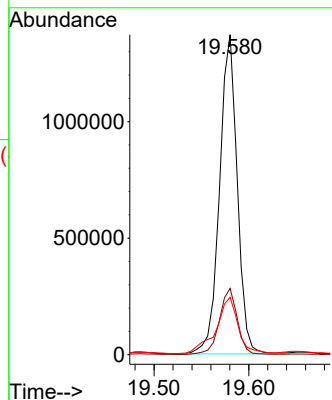
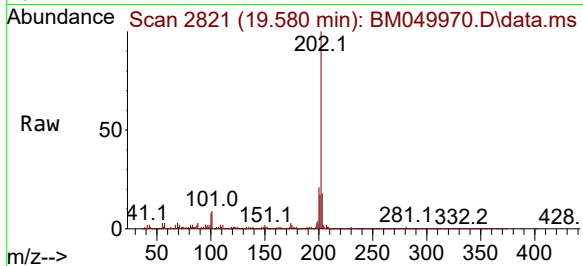




#78
Pyrene
Concen: 13.458 ng
RT: 19.580 min Scan# 2822
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

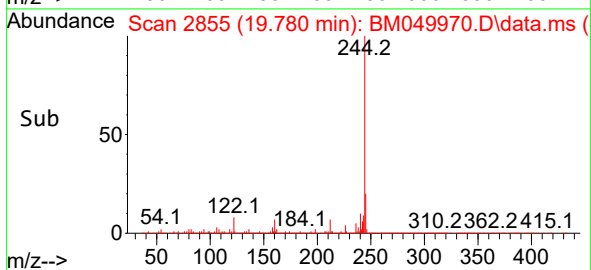
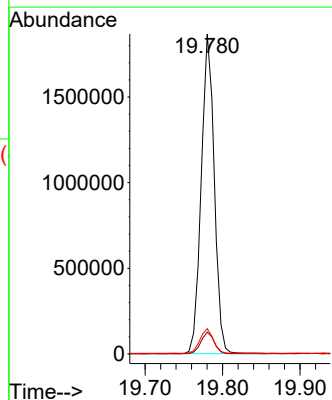
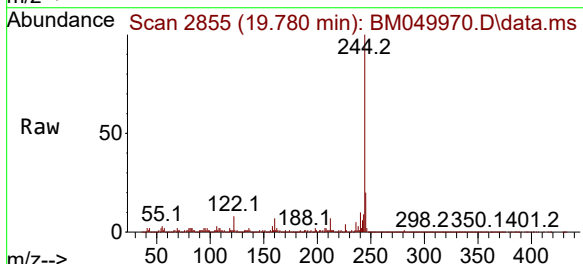
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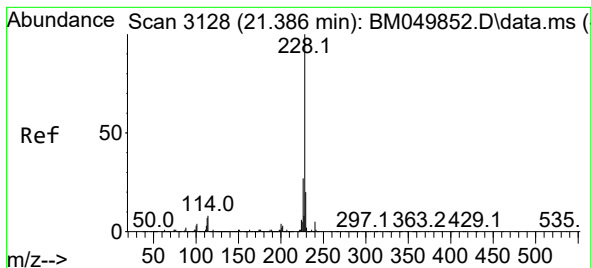
Tgt Ion:202 Resp: 1780812
Ion Ratio Lower Upper
202 100
200 20.7 16.5 24.7
203 17.9 14.0 21.0



#79
Terphenyl-d14
Concen: 21.275 ng
RT: 19.780 min Scan# 2855
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:244 Resp: 2179780
Ion Ratio Lower Upper
244 100
212 6.9 5.5 8.3
122 7.9 5.4 8.0





#81

Benzo(a)anthracene

Concen: 7.554 ng

RT: 21.380 min Scan# 3128

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

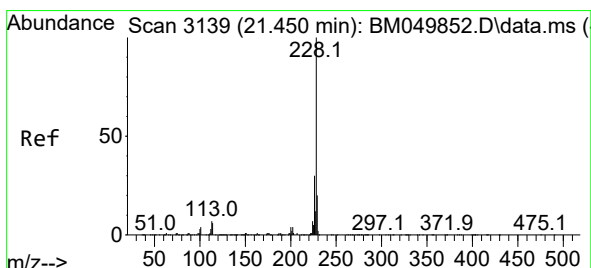
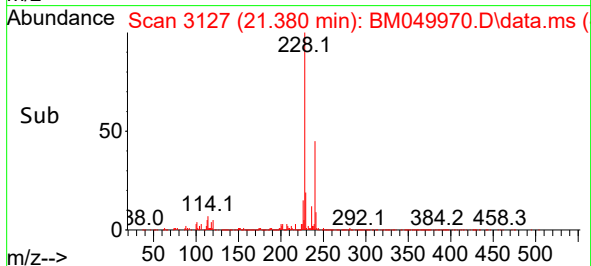
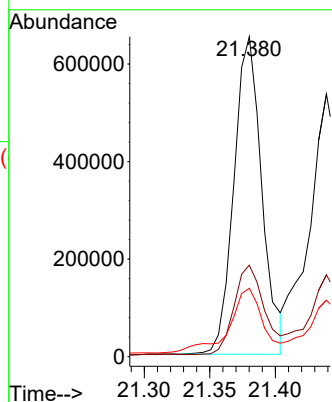
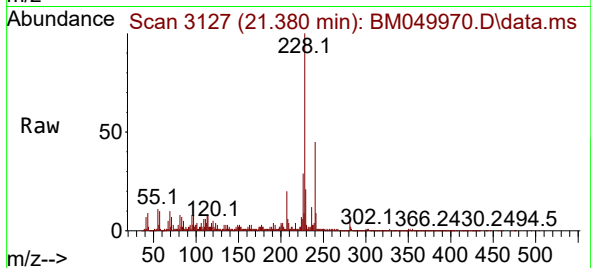
Tgt Ion:228 Resp: 963959

Ion Ratio Lower Upper

228 100

226 28.6 21.8 32.8

229 21.4 15.8 23.8



#83

Chrysene

Concen: 7.333 ng

RT: 21.439 min Scan# 3137

Delta R.T. -0.011 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

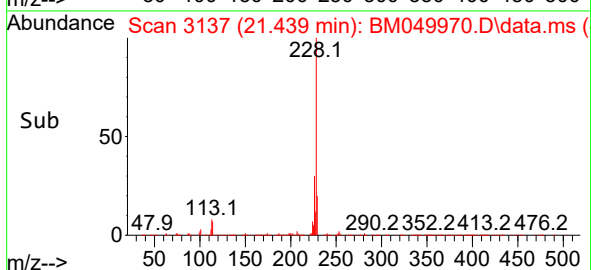
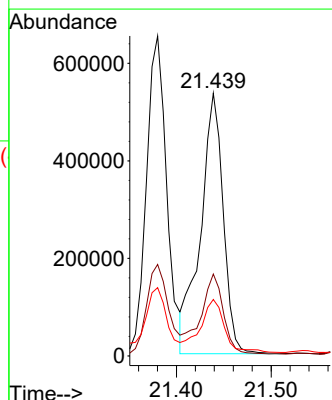
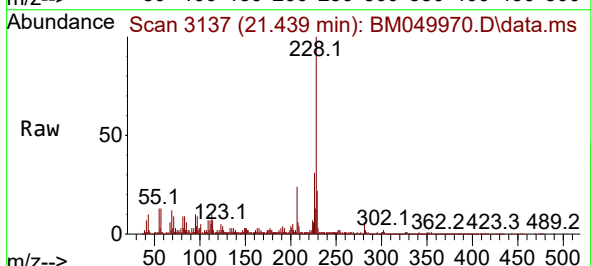
Tgt Ion:228 Resp: 889671

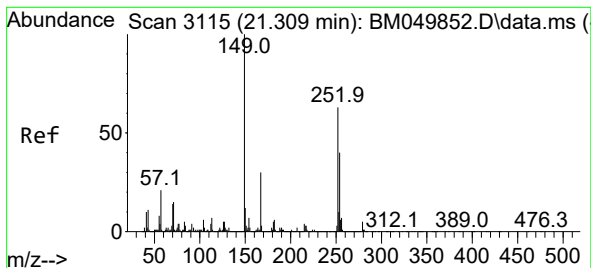
Ion Ratio Lower Upper

228 100

226 31.2 24.1 36.1

229 21.5 15.8 23.6

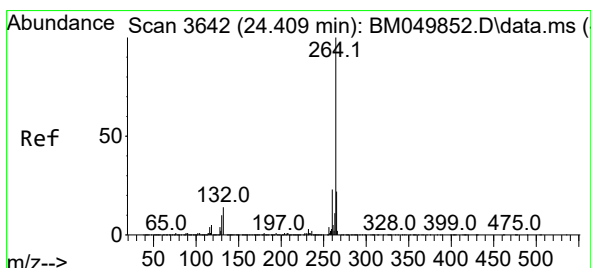
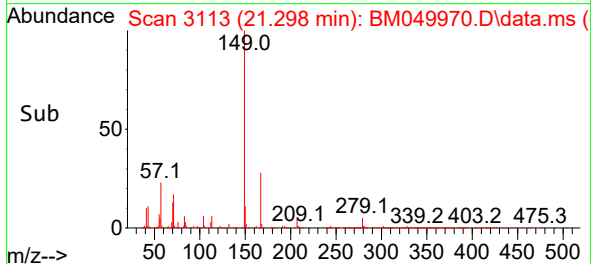
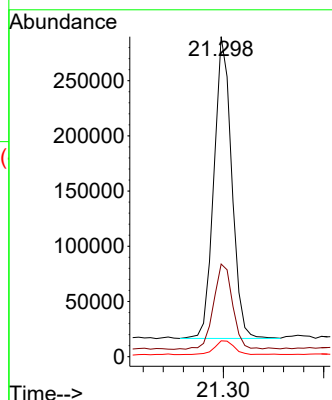
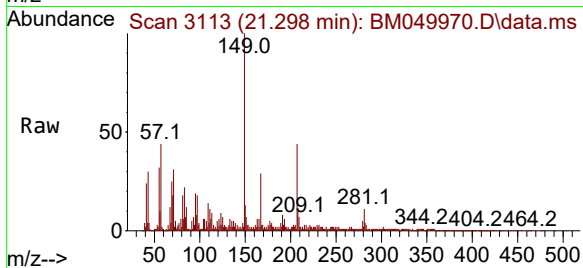




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.642 ng
RT: 21.298 min Scan# 3115
Delta R.T. -0.011 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

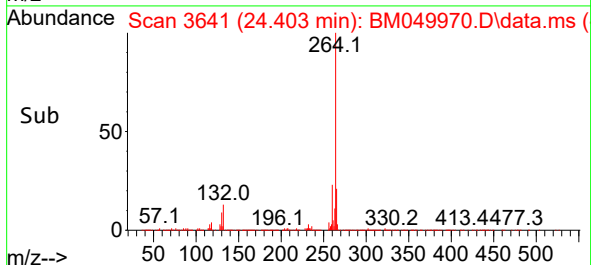
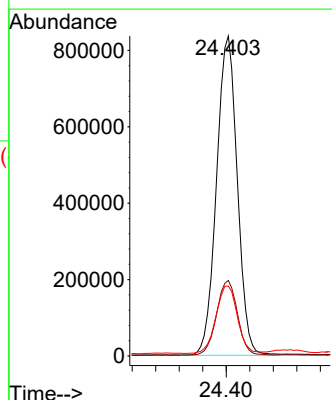
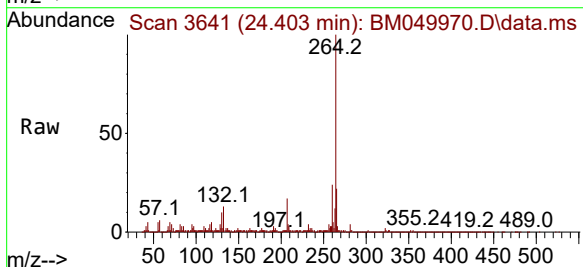
Instrument :
BNA_M
ClientSampleId :
SOIL-PILE

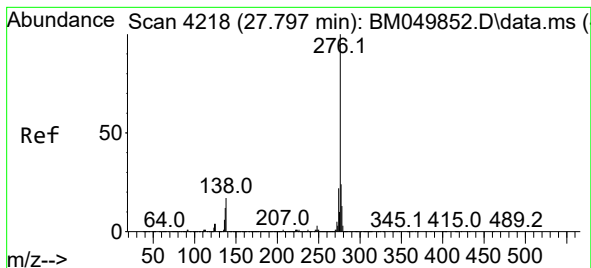
Tgt Ion:149 Resp: 336280
Ion Ratio Lower Upper
149 100
167 28.9 23.8 35.6
279 5.0 3.8 5.8



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.403 min Scan# 3641
Delta R.T. -0.006 min
Lab File: BM049970.D
Acq: 18 Apr 2025 17:45

Tgt Ion:264 Resp: 2049583
Ion Ratio Lower Upper
264 100
260 23.6 18.6 28.0
265 21.8 17.8 26.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 4.106 ng

RT: 27.791 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

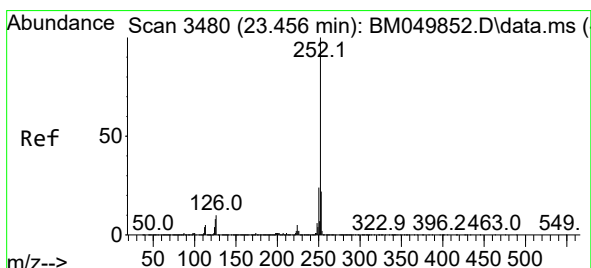
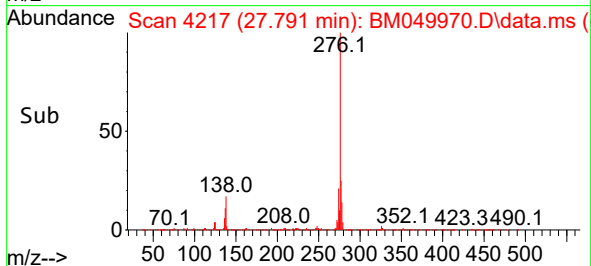
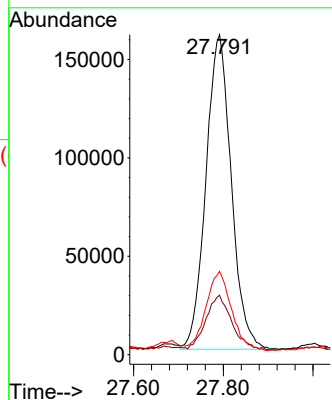
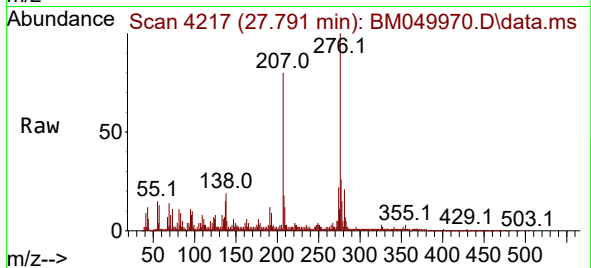
Tgt Ion:276 Resp: 627337

Ion Ratio Lower Upper

276 100

138 18.2 16.8 25.2

277 25.5 20.1 30.1



#88

Benzo(b)fluoranthene

Concen: 8.806 ng

RT: 23.456 min Scan# 3480

Delta R.T. 0.000 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

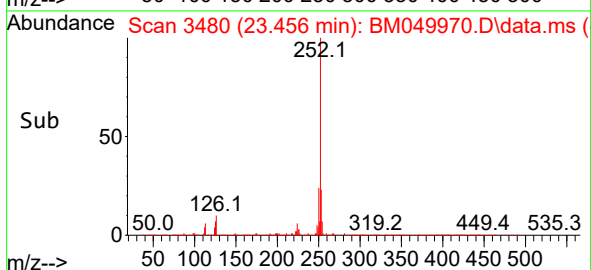
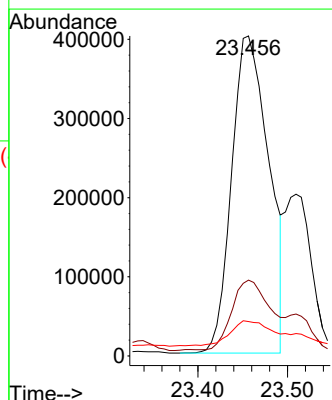
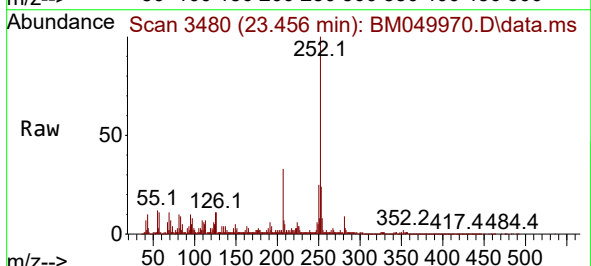
Tgt Ion:252 Resp: 1152752

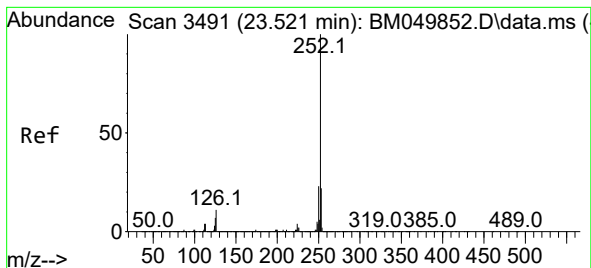
Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 10.7 6.2 9.4#





#89

Benzo(k)fluoranthene

Concen: 3.330 ng m

RT: 23.509 min Scan# 34

Delta R.T. -0.011 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

Instrument :

BNA_M

ClientSampleId :

SOIL-PILE

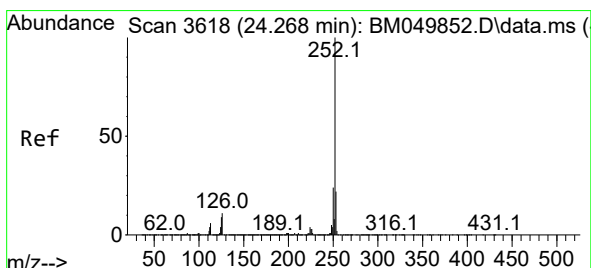
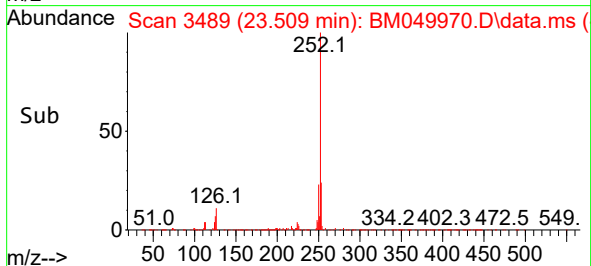
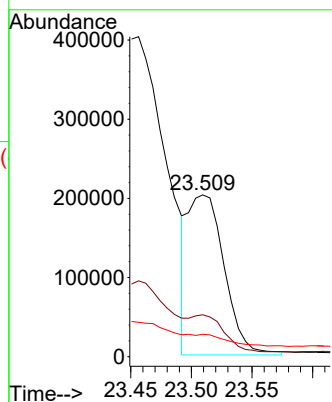
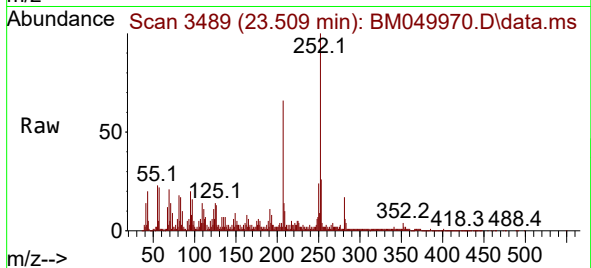
Tgt Ion:252 Resp: 422411

Ion Ratio Lower Upper

252 100

253 25.9 17.4 26.2

125 13.8 5.8 8.8#



#90

Benzo(a)pyrene

Concen: 8.040 ng

RT: 24.256 min Scan# 3616

Delta R.T. -0.011 min

Lab File: BM049970.D

Acq: 18 Apr 2025 17:45

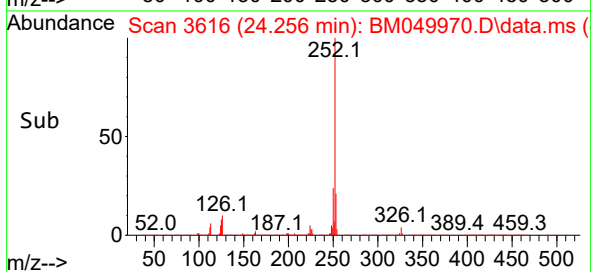
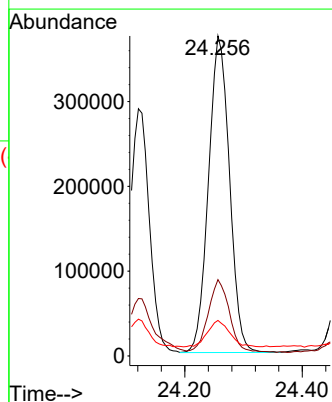
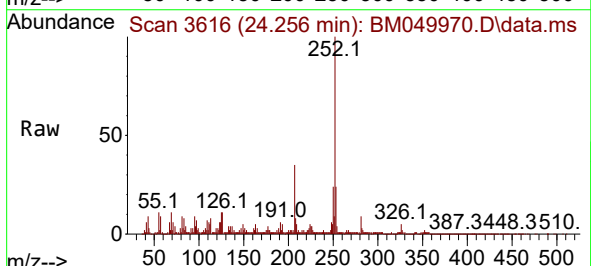
Tgt Ion:252 Resp: 924819

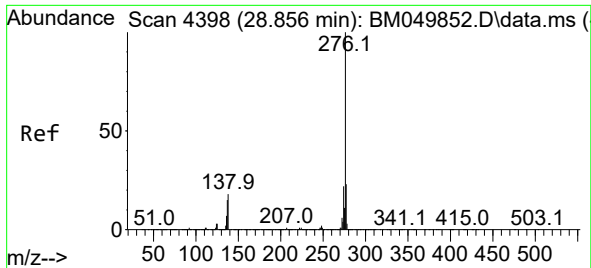
Ion Ratio Lower Upper

252 100

253 23.9 17.8 26.8

125 11.1 7.0 10.4#





#92
 Benzo(g,h,i)perylene
 Concen: 5.344 ng
 RT: 28.850 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: BM049970.D
 Acq: 18 Apr 2025 17:45

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILE

Tgt Ion:276 Resp: 687224
 Ion Ratio Lower Upper
 276 100
 277 25.7 18.7 28.1
 138 19.0 14.6 21.8

