

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042325\
 Data File : BM050021.D
 Acq On : 23 Apr 2025 19:50
 Operator : RC/JU
 Sample : Q1853-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 EO-02-04222025

Quant Time: Apr 24 02:01:55 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)

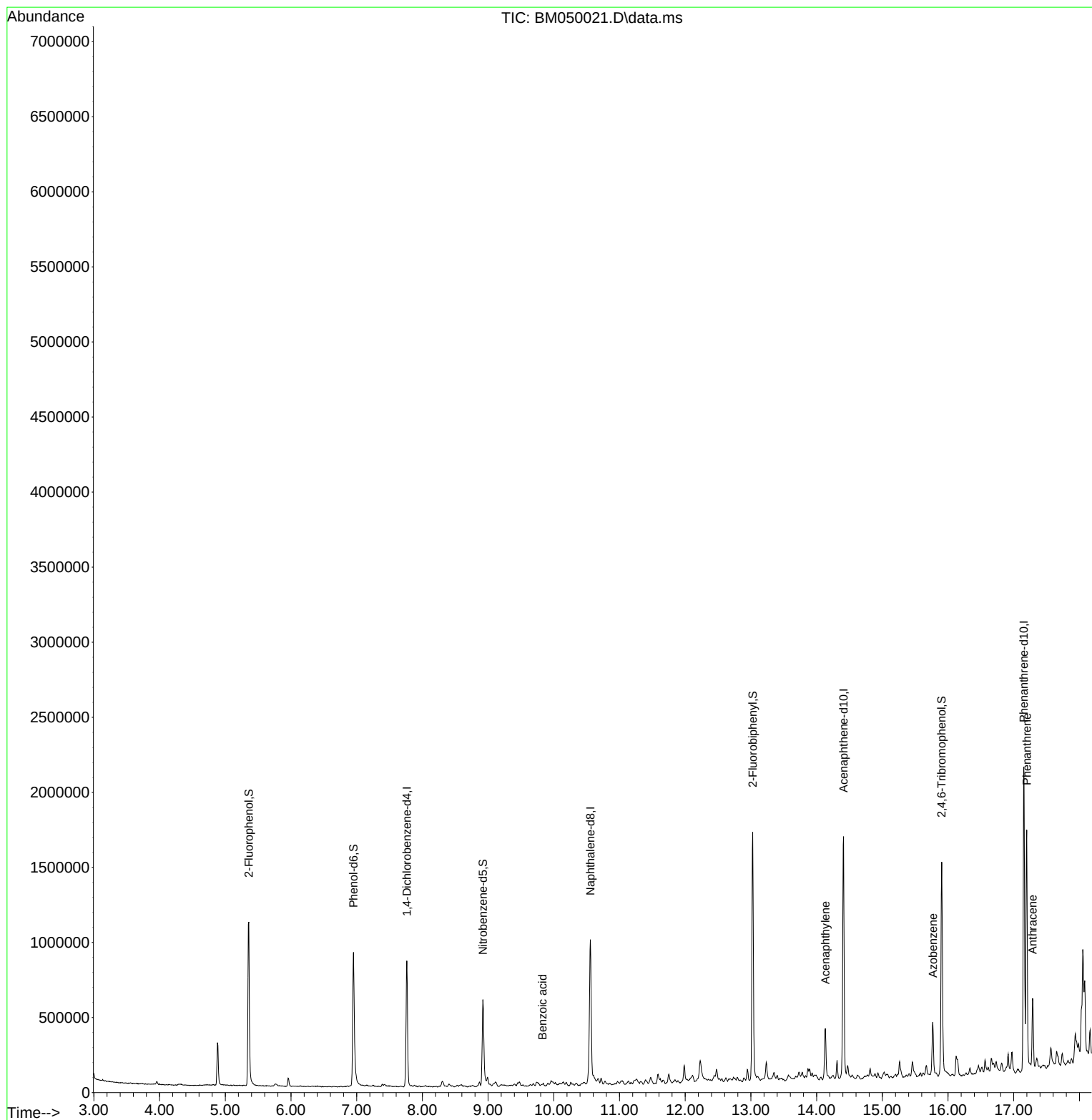
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	252053	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	875844	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	609996	20.000	ng	-0.01
64) Phenanthrene-d10	17.151	188	1266668	20.000	ng	-0.01
76) Chrysene-d12	21.398	240	1265176	20.000	ng	0.00
86) Perylene-d12	24.397	264	1278973	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	541205	36.461	ng	0.00
7) Phenol-d6	6.951	99	647139	35.041	ng	0.00
23) Nitrobenzene-d5	8.922	82	388415	24.695	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	312557	35.227	ng	0.00
45) 2-Fluorobiphenyl	13.028	172	1018158	22.633	ng	-0.02
79) Terphenyl-d14	19.780	244	1602640	23.739	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.828	122	148	8.549	ng	# 1
49) Acenaphthylene	14.133	152	281625	5.425	ng	96
63) Azobenzene	15.769	77	102219	2.893	ng	# 1
71) Phenanthrene	17.198	178	1012443	14.579	ng	100
72) Anthracene	17.286	178	317362	4.637	ng	99
75) Fluoranthene	19.215	202	3130380	36.662	ng	99
78) Pyrene	19.580	202	2893071	33.180	ng	99
81) Benzo(a)anthracene	21.380	228	1578216	18.770	ng	97
83) Chrysene	21.439	228	1484561	18.571	ng	98
87) Indeno(1,2,3-cd)pyrene	27.797	276	1084792	11.379	ng	97
88) Benzo(b)fluoranthene	23.456	252	2071568	25.361	ng	98
89) Benzo(k)fluoranthene	23.456	252	2071568	26.170	ng	# 97
90) Benzo(a)pyrene	24.262	252	1482118	20.649	ng	99
91) Dibenzo(a,h)anthracene	27.827	278	268034	3.413	ng	# 88
92) Benzo(g,h,i)perylene	28.850	276	1069577	13.329	ng	98

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

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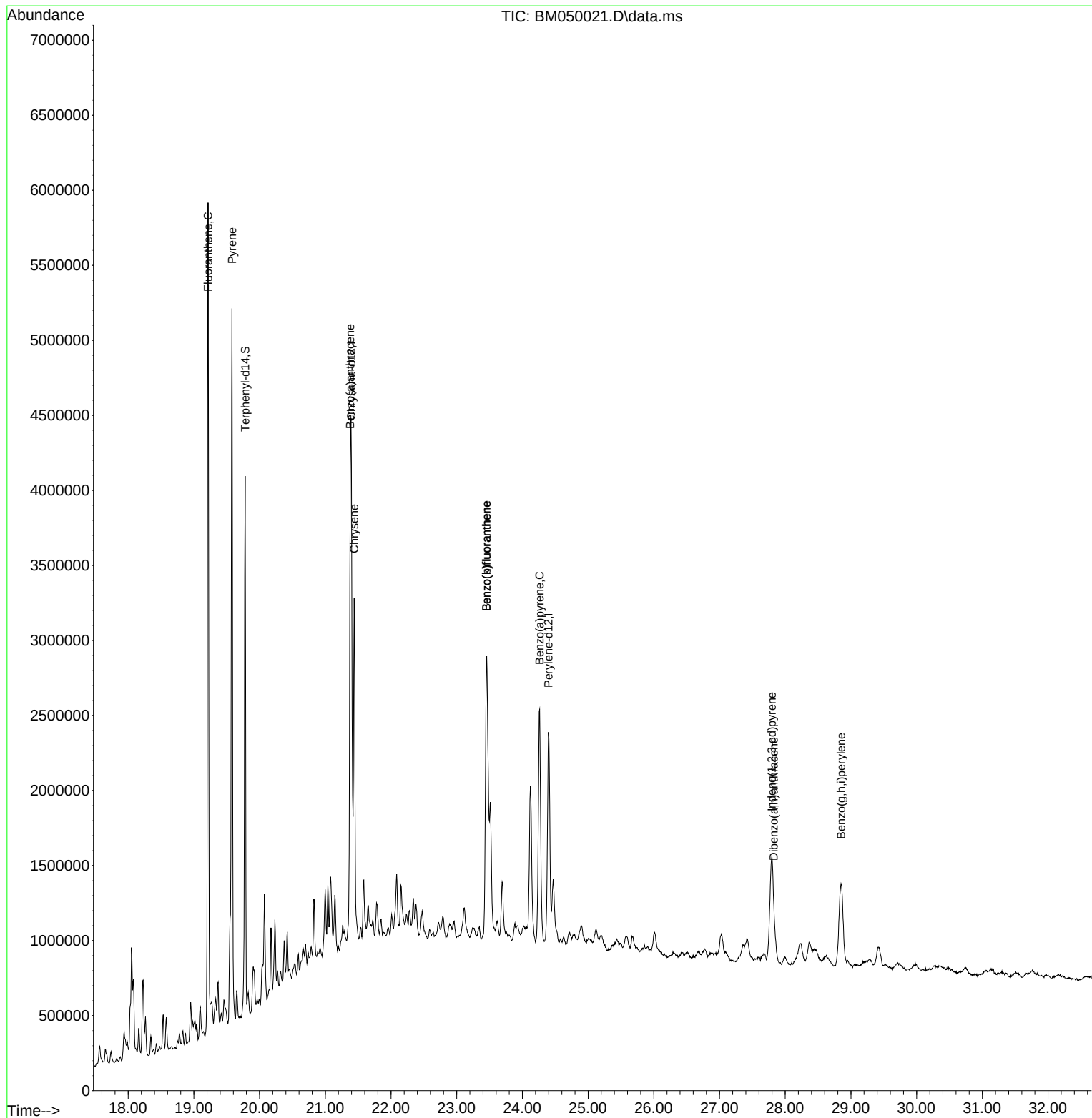
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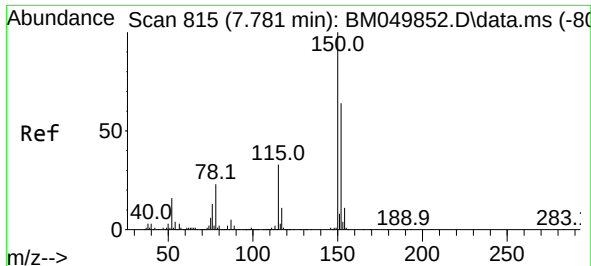


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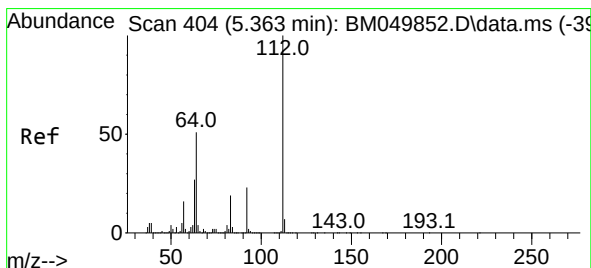
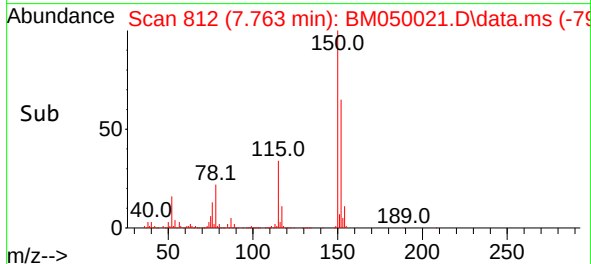
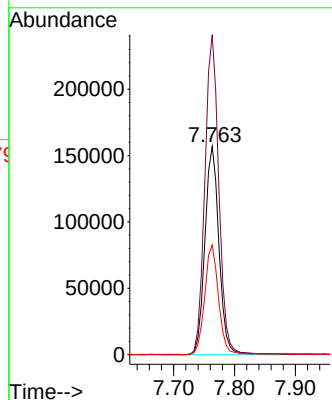
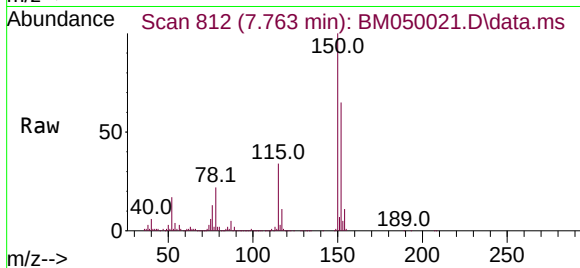




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

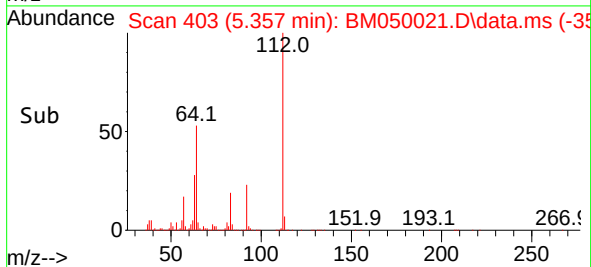
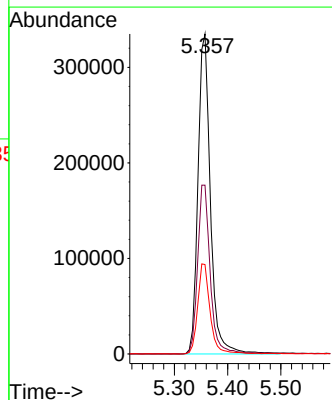
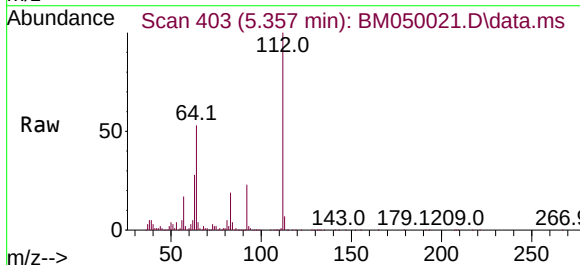
Instrument :
BNA_M
ClientSampleId :
EO-02-04222025

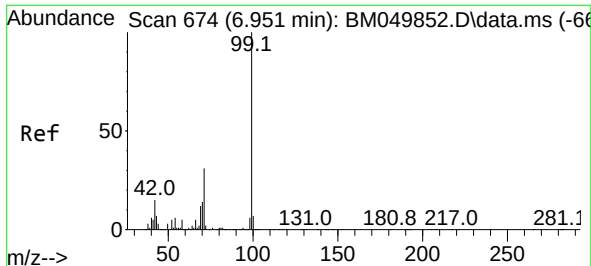
Tgt Ion:152 Resp: 252053
Ion Ratio Lower Upper
152 100
150 153.6 124.3 186.5
115 52.6 41.1 61.7



#5
2-Fluorophenol
Concen: 36.461 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion:112 Resp: 541205
Ion Ratio Lower Upper
112 100
64 52.8 41.0 61.6
63 27.9 21.5 32.3

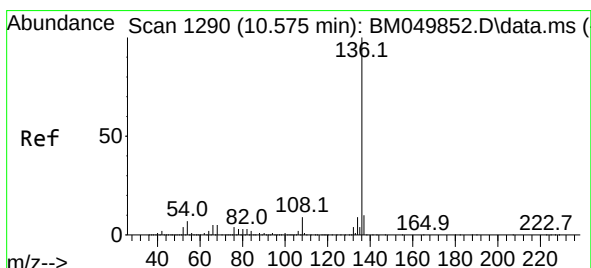
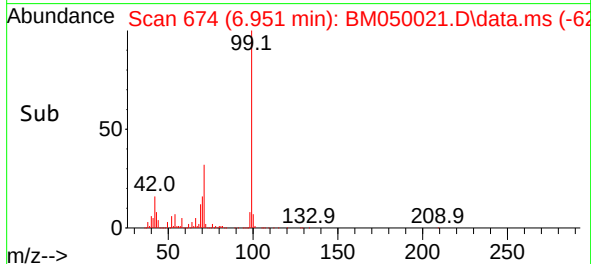
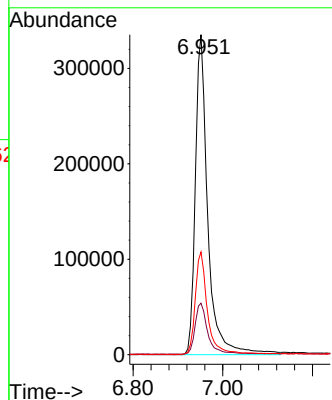
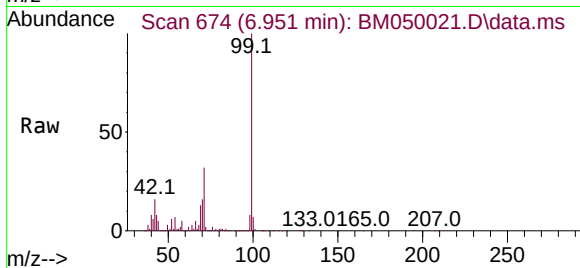




#7
Phenol-d6
Concen: 35.041 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

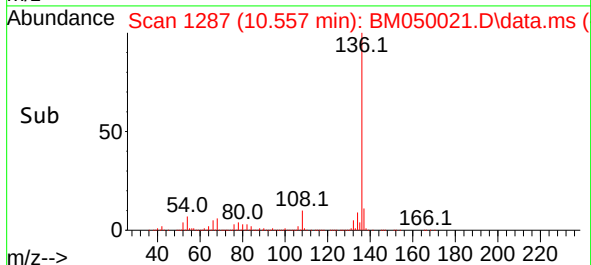
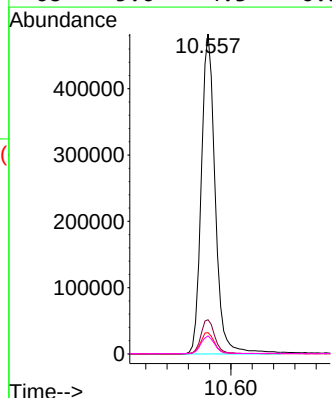
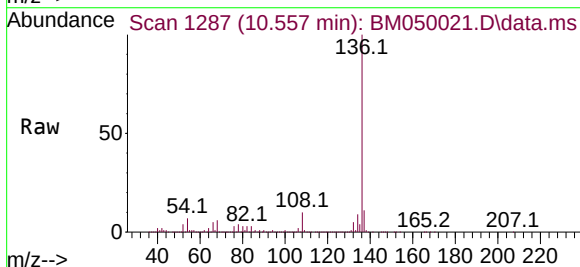
Instrument :
BNA_M
ClientSampleId :
EO-02-04222025

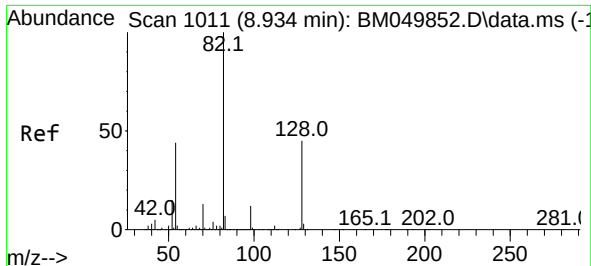
Tgt Ion: 99 Resp: 647139
Ion Ratio Lower Upper
99 100
42 16.1 12.1 18.1
71 32.1 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion: 136 Resp: 875844
Ion Ratio Lower Upper
136 100
137 10.7 8.4 12.6
54 6.7 5.3 7.9
68 5.6 4.3 6.5

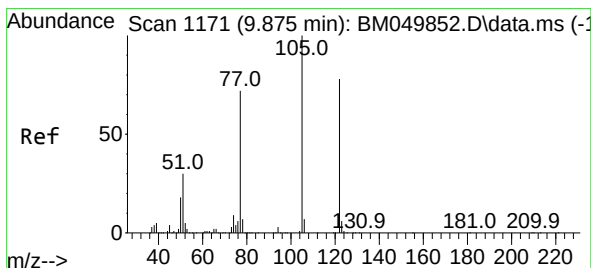
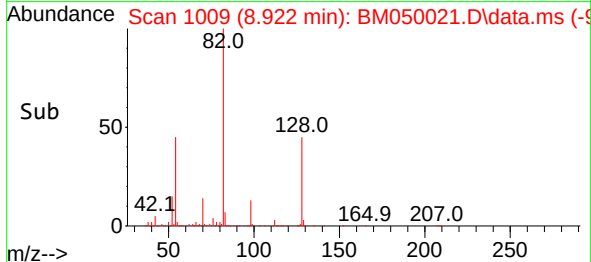
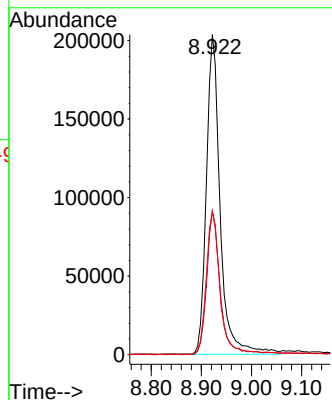
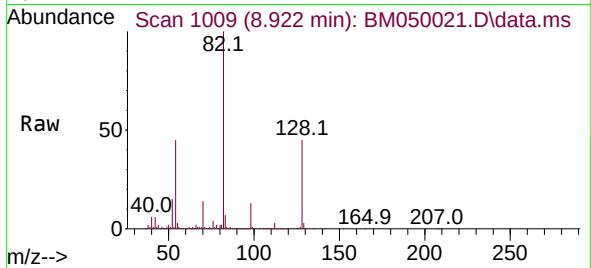




#23
Nitrobenzene-d5
Concen: 24.695 ng
RT: 8.922 min Scan# 1100
Delta R.T. -0.012 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

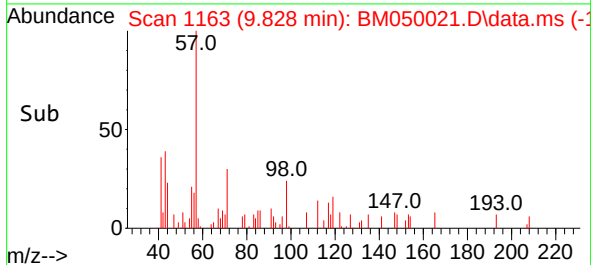
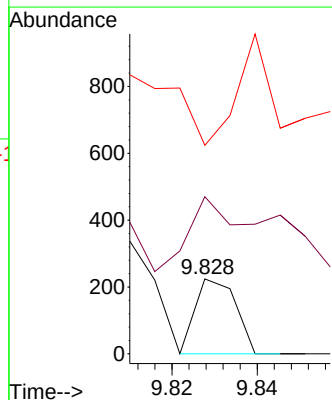
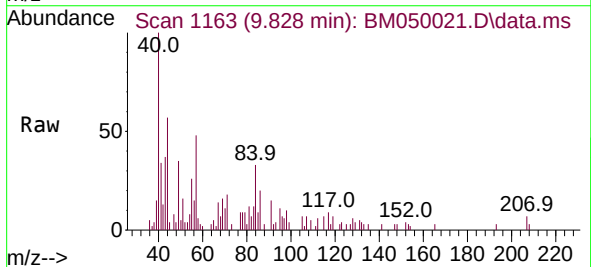
Instrument :
BNA_M
ClientSampleId :
EO-02-04222025

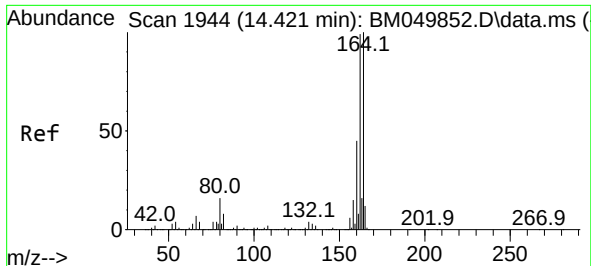
Tgt Ion: 82 Resp: 388415
Ion Ratio Lower Upper
82 100
128 45.0 36.2 54.2
54 44.7 35.0 52.6



#32
Benzoic acid
Concen: 8.549 ng
RT: 9.828 min Scan# 1163
Delta R.T. -0.047 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion:122 Resp: 148
Ion Ratio Lower Upper
122 100
105 209.8 103.8 143.8#
77 278.6 70.7 110.7#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.410 min Scan# 1942

Delta R.T. -0.012 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

Instrument :

BNA_M

ClientSampleId :

EO-02-04222025

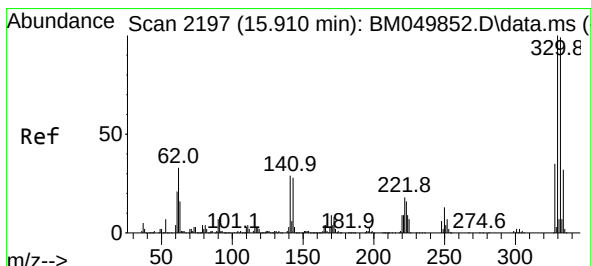
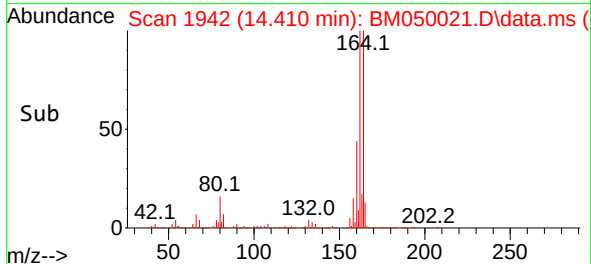
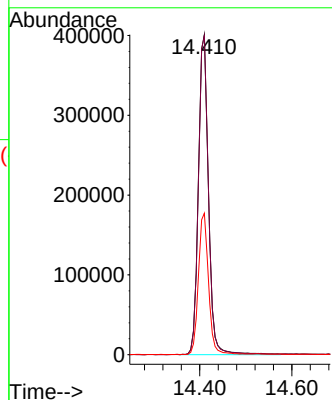
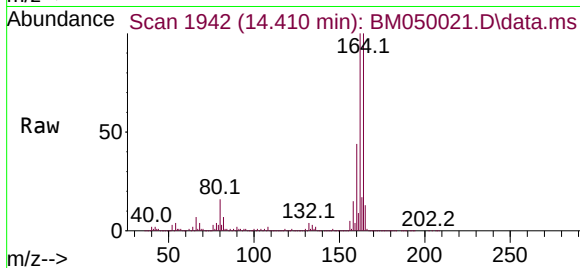
Tgt Ion:164 Resp: 609996

Ion Ratio Lower Upper

164 100

162 99.6 79.4 119.0

160 44.2 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 35.227 ng

RT: 15.904 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

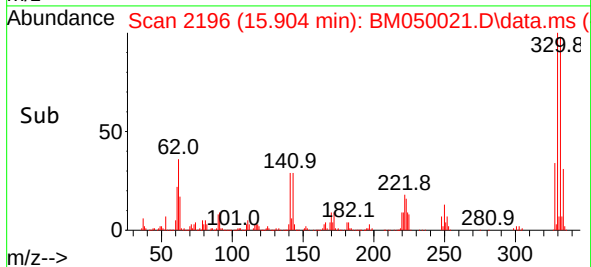
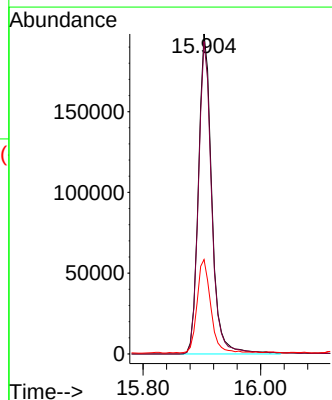
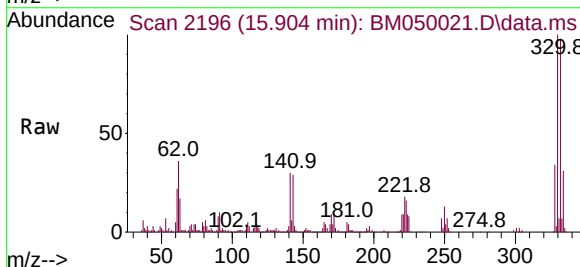
Tgt Ion:330 Resp: 312557

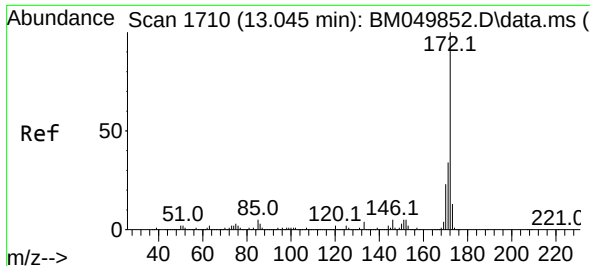
Ion Ratio Lower Upper

330 100

332 97.0 78.0 117.0

141 30.0 23.5 35.3

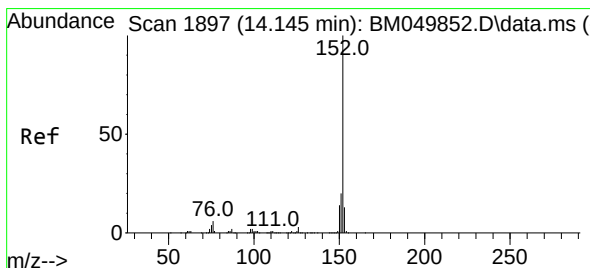
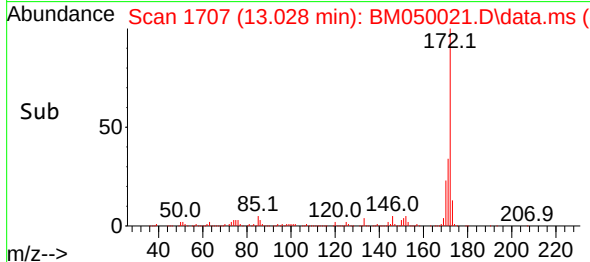
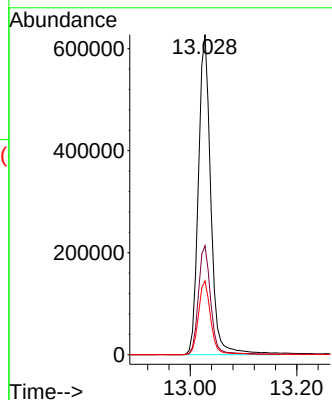
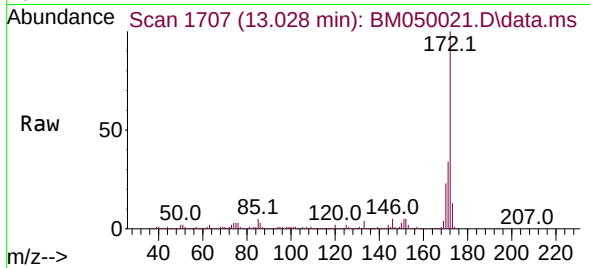




#45
2-Fluorobiphenyl
Concen: 22.633 ng
RT: 13.028 min Scan# 1707
Delta R.T. -0.018 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

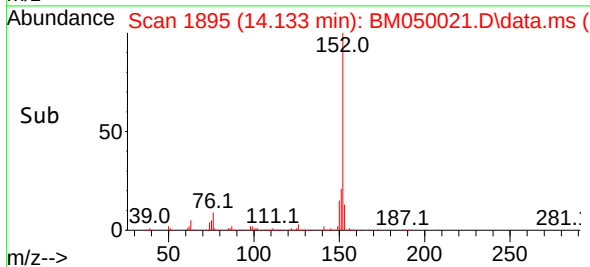
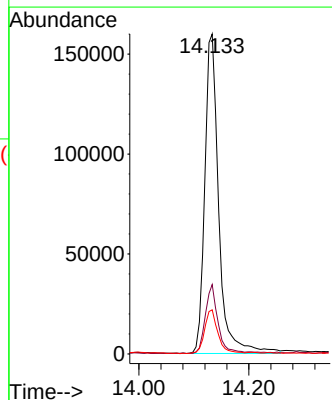
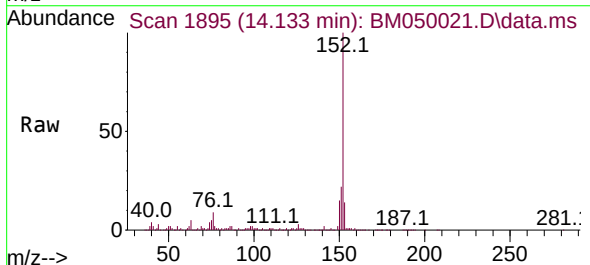
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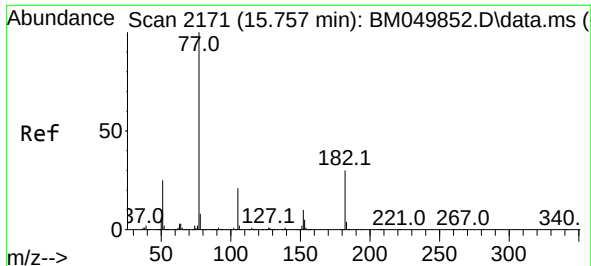
Tgt Ion:172 Resp: 1018158
Ion Ratio Lower Upper
172 100
171 34.0 27.4 41.2
170 23.1 18.6 28.0



#49
Acenaphthylene
Concen: 5.425 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion:152 Resp: 281625
Ion Ratio Lower Upper
152 100
151 21.7 15.7 23.5
153 13.8 10.4 15.6

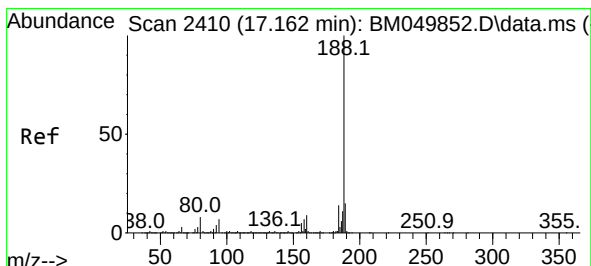
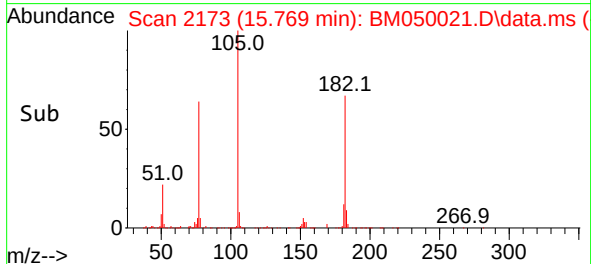
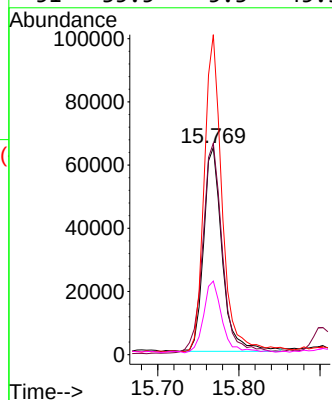
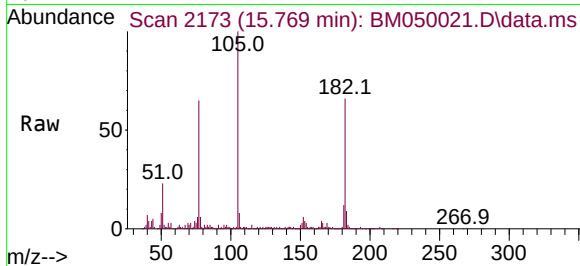




#63
 Azobenzene
 Concen: 2.893 ng
 RT: 15.769 min Scan# 2171
 Delta R.T. 0.012 min
 Lab File: BM050021.D
 Acq: 23 Apr 2025 19:50

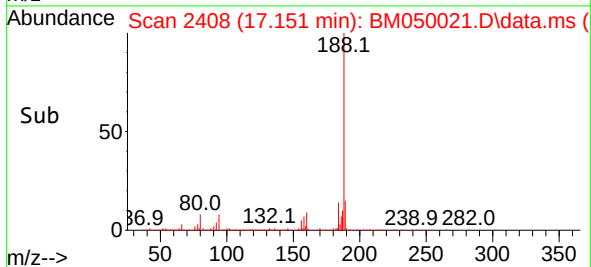
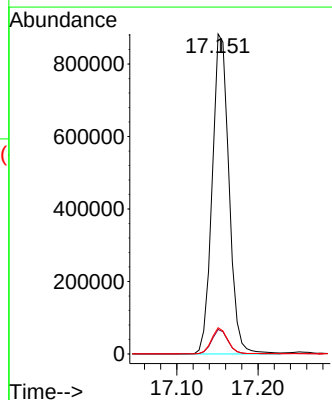
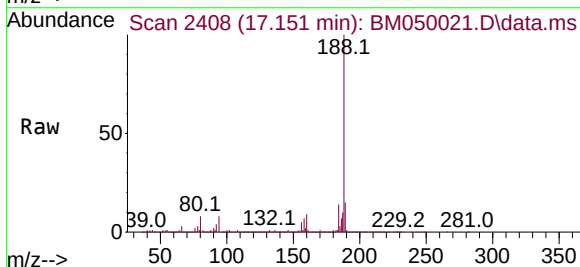
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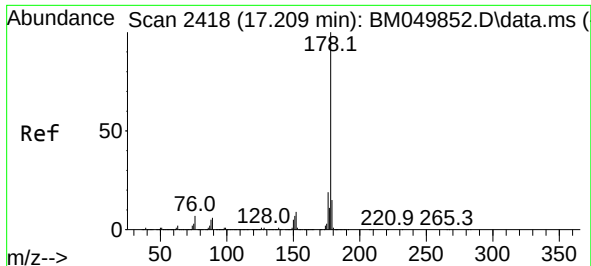
Tgt Ion: 77 Resp: 102219
 Ion Ratio Lower Upper
 77 100
 182 102.1 10.4 50.4#
 105 154.5 1.5 41.5#
 51 35.5 5.3 45.3



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.151 min Scan# 2408
 Delta R.T. -0.012 min
 Lab File: BM050021.D
 Acq: 23 Apr 2025 19:50

Tgt Ion: 188 Resp: 1266668
 Ion Ratio Lower Upper
 188 100
 94 7.7 5.8 8.6
 80 8.2 6.4 9.6

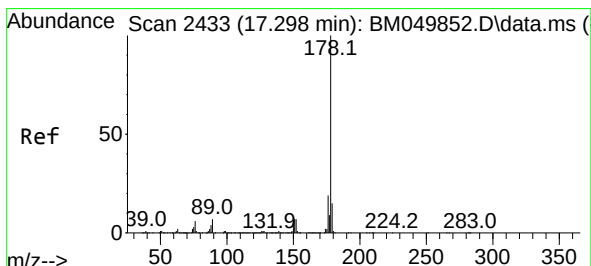
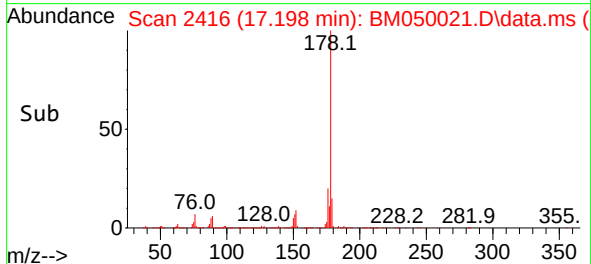
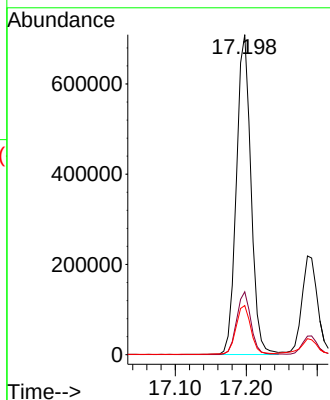
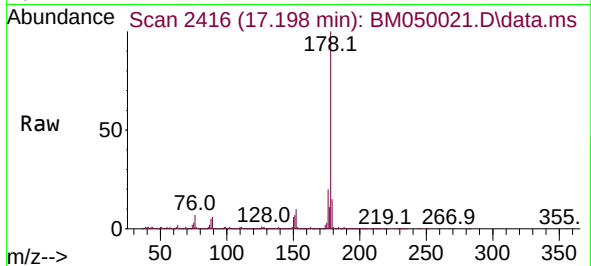




#71
Phenanthrene
Concen: 14.579 ng
RT: 17.198 min Scan# 2418
Delta R.T. -0.012 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

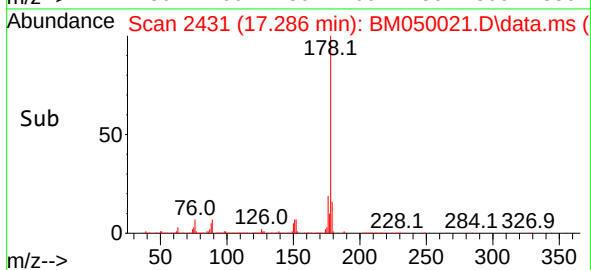
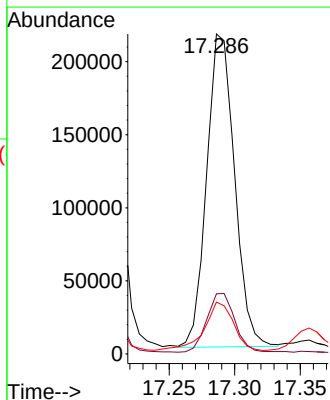
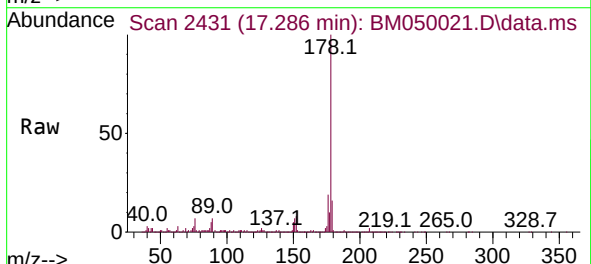
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ClientSampleId :
EO-02-04222025

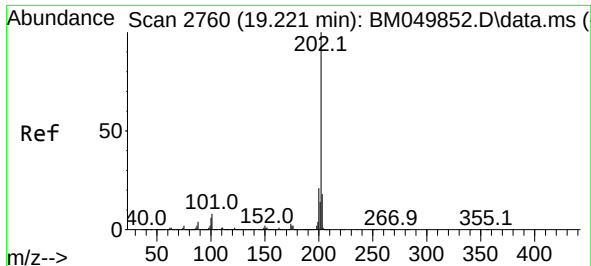
Tgt Ion:178 Resp: 1012443
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5



#72
Anthracene
Concen: 4.637 ng
RT: 17.286 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion:178 Resp: 317362
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 16.2 12.4 18.6

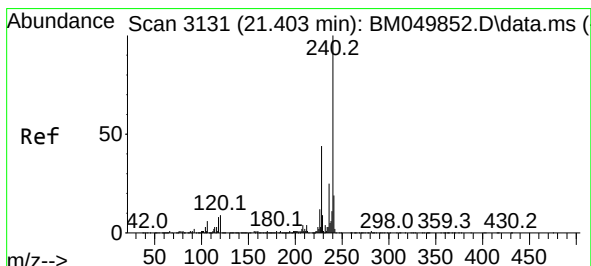
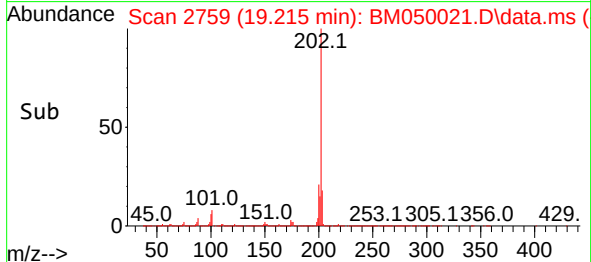
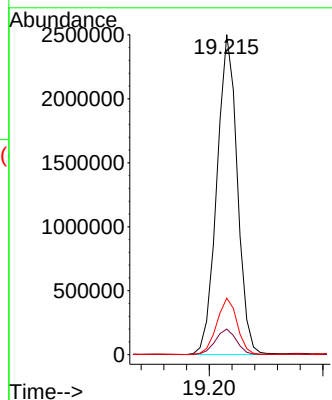
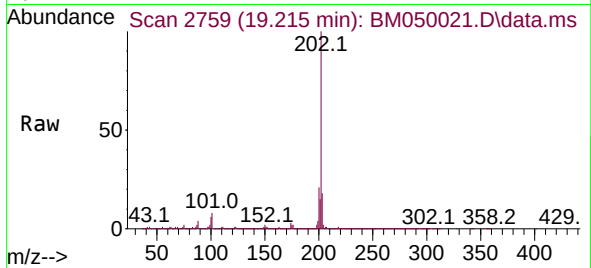




#75
Fluoranthene
Concen: 36.662 ng
RT: 19.215 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

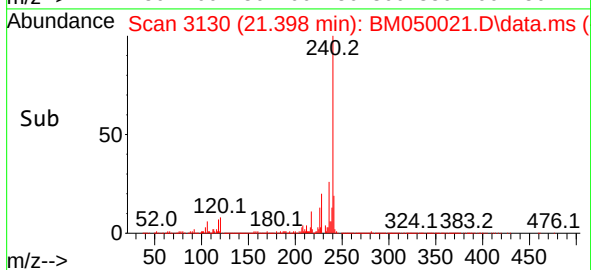
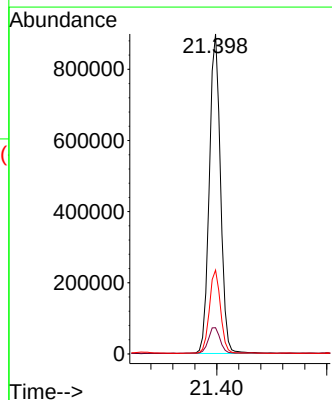
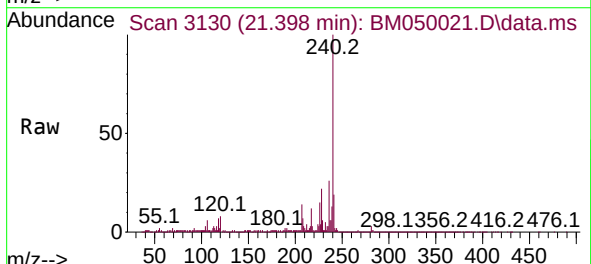
Instrument :
BNA_M
ClientSampleId :
EO-02-04222025

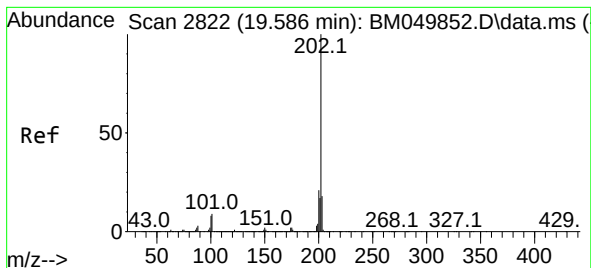
Tgt Ion:202 Resp: 3130380
Ion Ratio Lower Upper
202 100
101 8.0 0.0 28.4
203 17.7 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.398 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion:240 Resp: 1265176
Ion Ratio Lower Upper
240 100
120 8.2 6.9 10.3
236 26.2 20.4 30.6





#78

Pyrene

Concen: 33.180 ng

RT: 19.580 min Scan# 2822

Delta R.T. -0.006 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

Instrument :

BNA_M

ClientSampleId :

EO-02-04222025

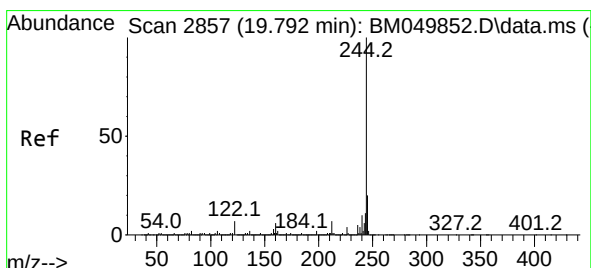
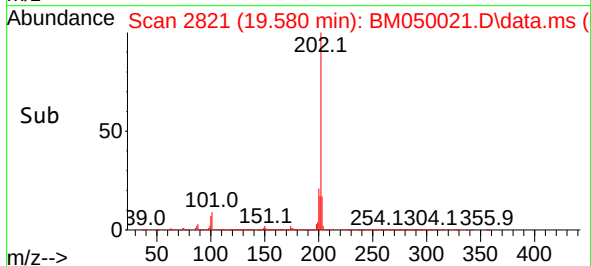
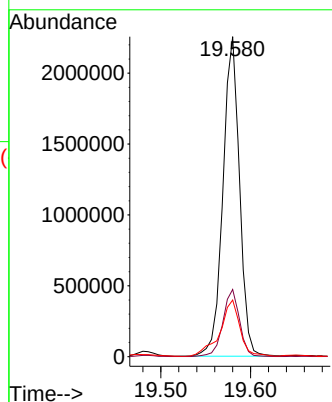
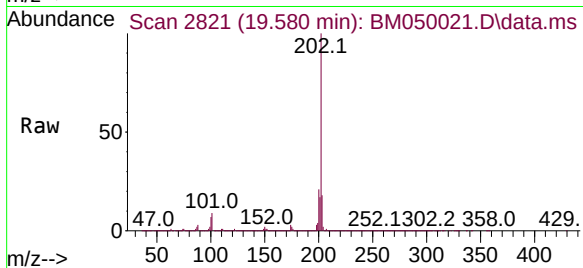
Tgt Ion:202 Resp: 2893071

Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 17.7 14.0 21.0



#79

Terphenyl-d14

Concen: 23.739 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

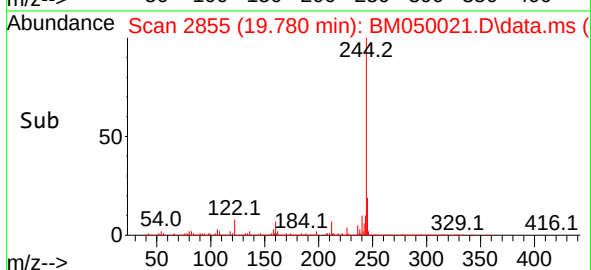
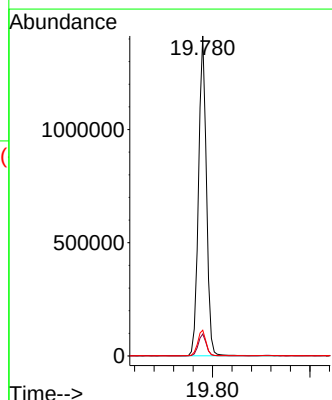
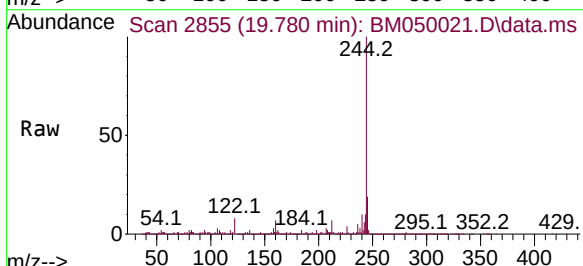
Tgt Ion:244 Resp: 1602640

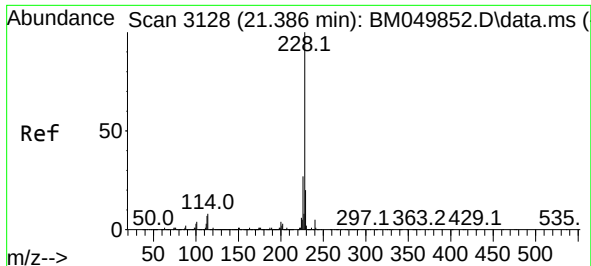
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 8.0 5.4 8.0#

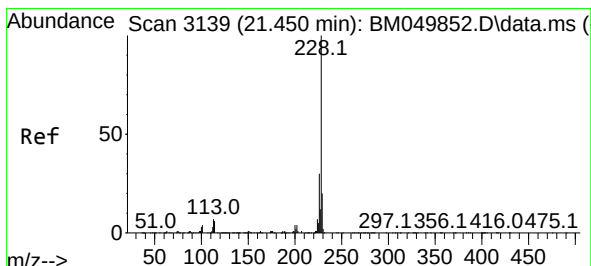
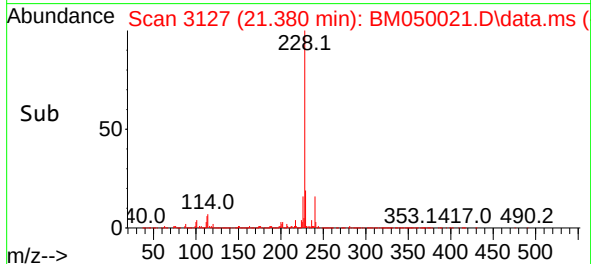
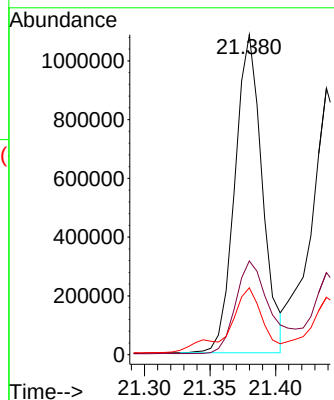
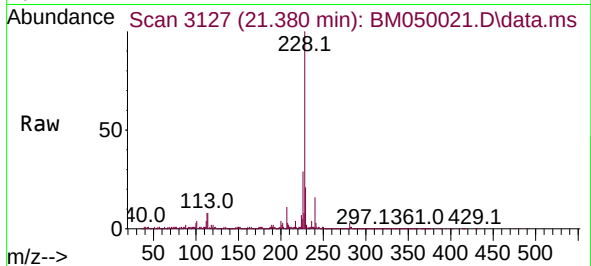




#81
Benzo(a)anthracene
Concen: 18.770 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

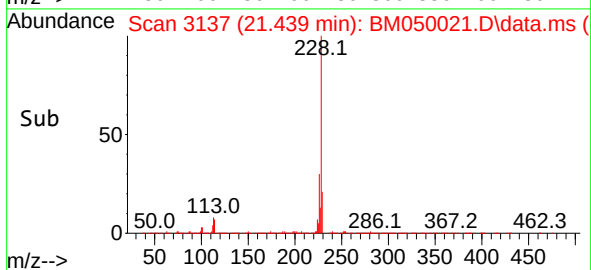
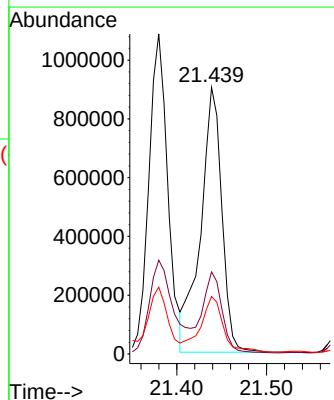
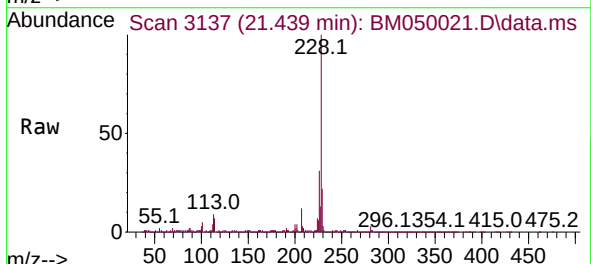
Instrument :
BNA_M
ClientSampleId :
EO-02-04222025

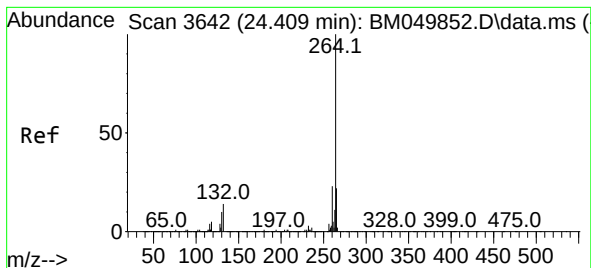
Tgt Ion:228 Resp: 1578216
Ion Ratio Lower Upper
228 100
226 29.3 21.8 32.8
229 20.9 15.8 23.8



#83
Chrysene
Concen: 18.571 ng
RT: 21.439 min Scan# 3137
Delta R.T. -0.012 min
Lab File: BM050021.D
Acq: 23 Apr 2025 19:50

Tgt Ion:228 Resp: 1484561
Ion Ratio Lower Upper
228 100
226 30.8 24.1 36.1
229 21.5 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

Instrument :

BNA_M

ClientSampleId :

EO-02-04222025

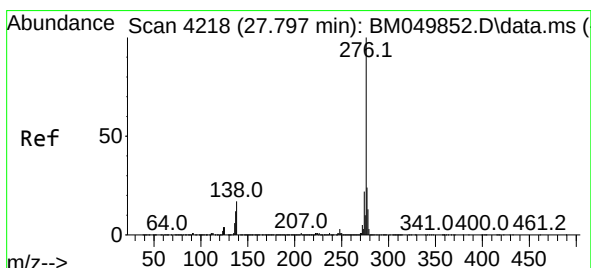
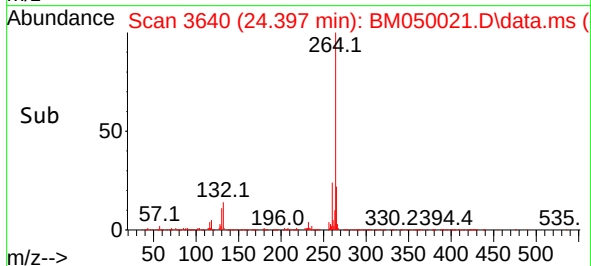
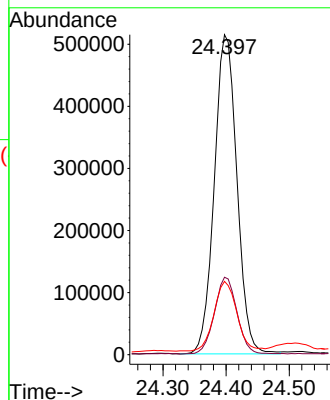
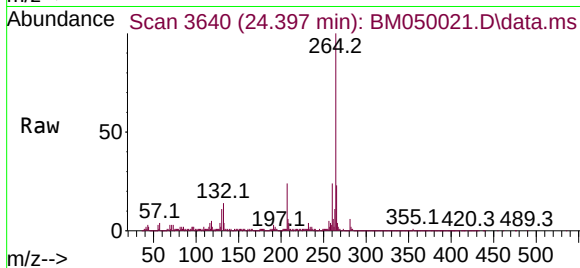
Tgt Ion:264 Resp: 1278973

Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

265 22.9 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.379 ng

RT: 27.797 min Scan# 4218

Delta R.T. 0.000 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

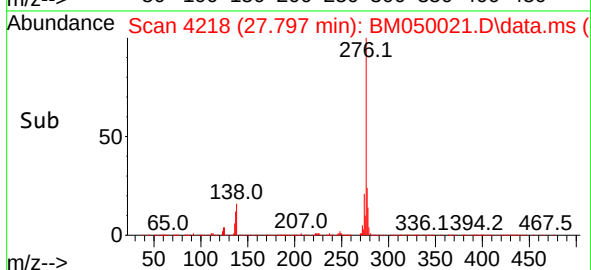
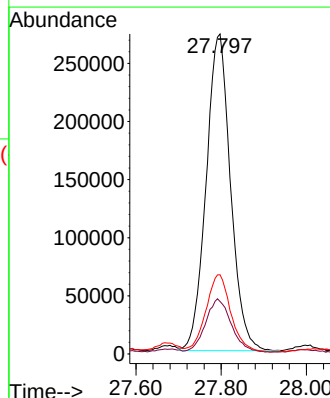
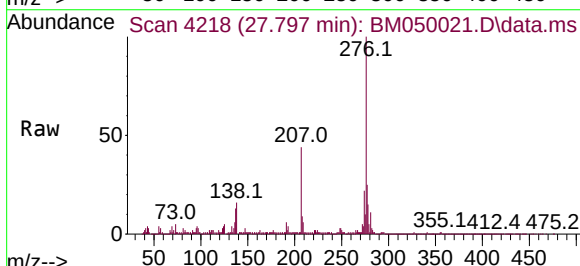
Tgt Ion:276 Resp: 1084792

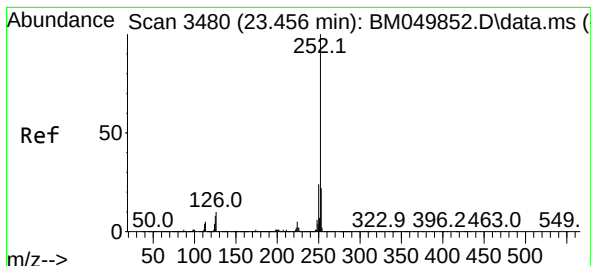
Ion Ratio Lower Upper

276 100

138 17.6 16.8 25.2

277 25.0 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 25.361 ng

RT: 23.456 min Scan# 3480

Delta R.T. 0.000 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

Instrument :

BNA_M

ClientSampleId :

EO-02-04222025

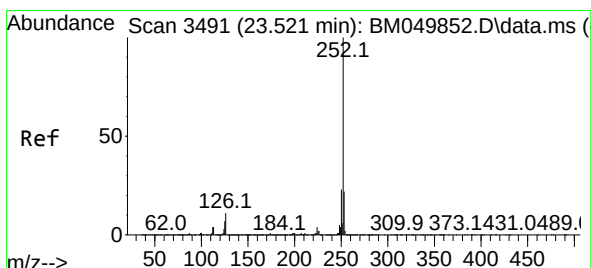
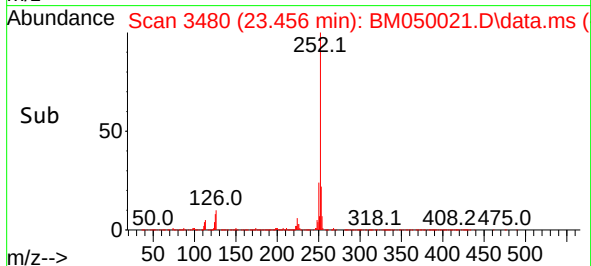
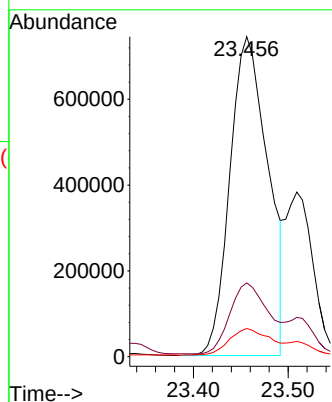
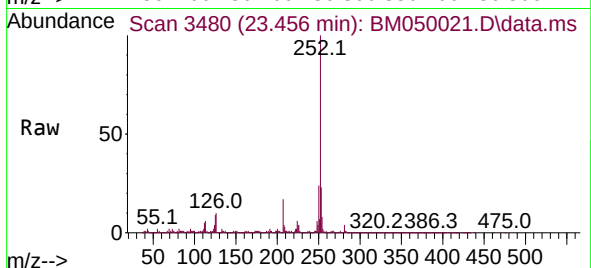
Tgt Ion:252 Resp: 2071568

Ion Ratio Lower Upper

252 100

253 23.0 17.5 26.3

125 8.8 6.2 9.4



#89

Benzo(k)fluoranthene

Concen: 26.170 ng

RT: 23.456 min Scan# 3480

Delta R.T. -0.065 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

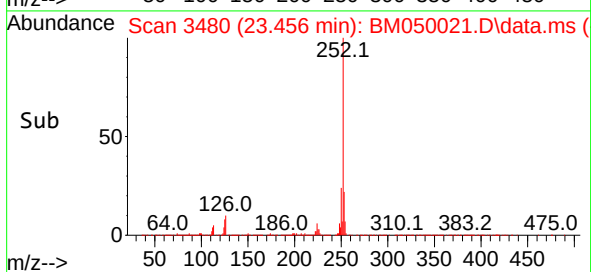
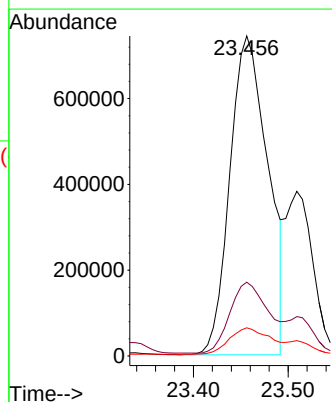
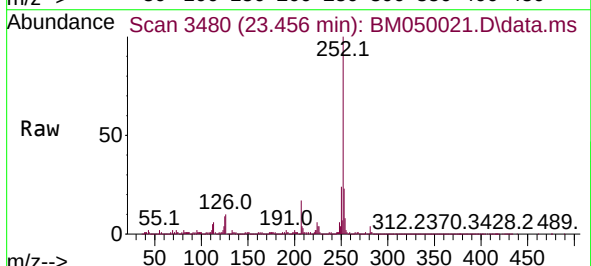
Tgt Ion:252 Resp: 2071568

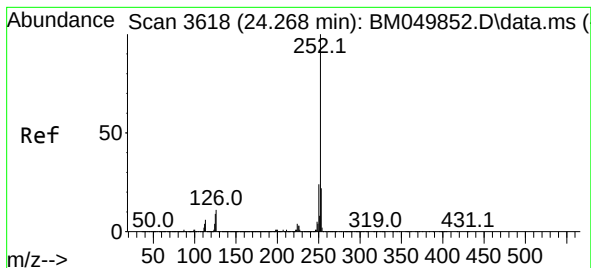
Ion Ratio Lower Upper

252 100

253 23.0 17.4 26.2

125 8.8 5.8 8.8#





#90

Benzo(a)pyrene

Concen: 20.649 ng

RT: 24.262 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

Instrument :

BNA_M

ClientSampleId :

EO-02-04222025

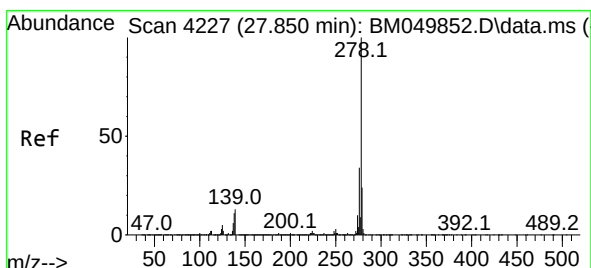
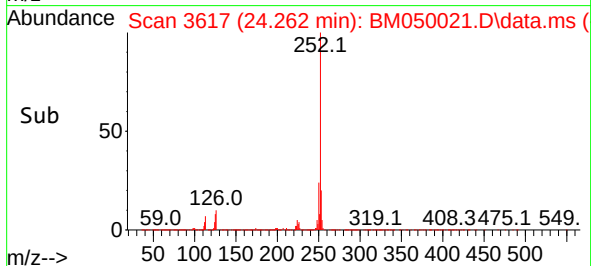
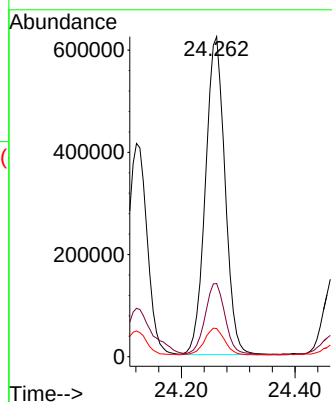
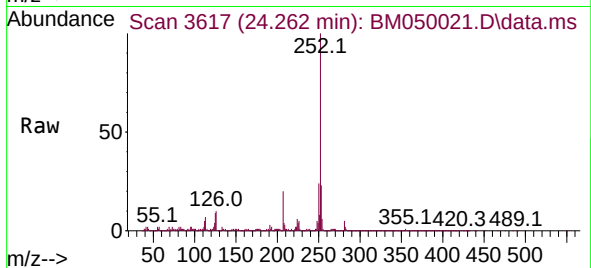
Tgt Ion:252 Resp: 1482118

Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.8

125 8.8 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 3.413 ng

RT: 27.827 min Scan# 4223

Delta R.T. -0.023 min

Lab File: BM050021.D

Acq: 23 Apr 2025 19:50

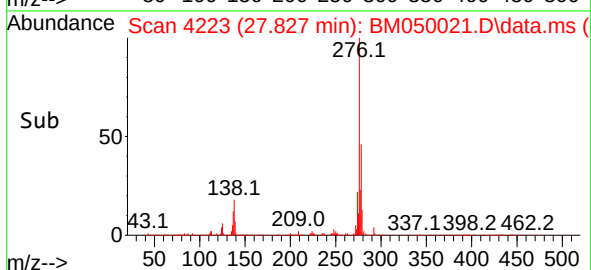
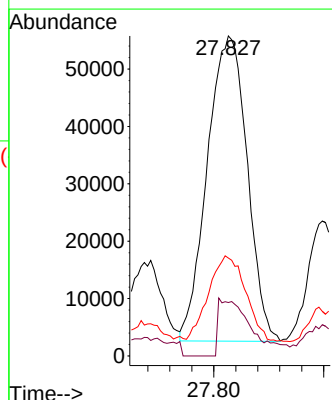
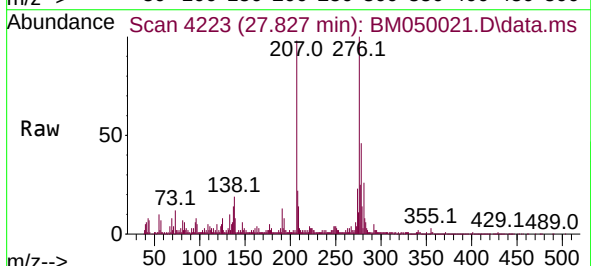
Tgt Ion:278 Resp: 268034

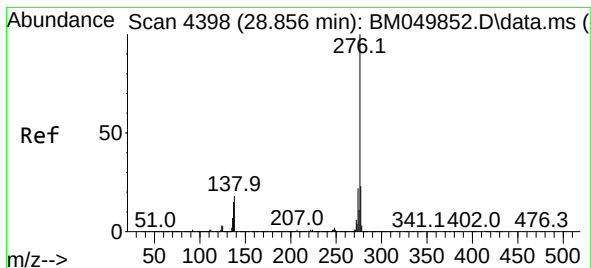
Ion Ratio Lower Upper

278 100

139 16.7 10.6 15.8#

279 30.6 19.1 28.7#





#92

Benzo(g,h,i)perylene

Concen: 13.329 ng

RT: 28.850 min Scan# 41

Delta R.T. -0.006 min

Lab File: BM050021.D

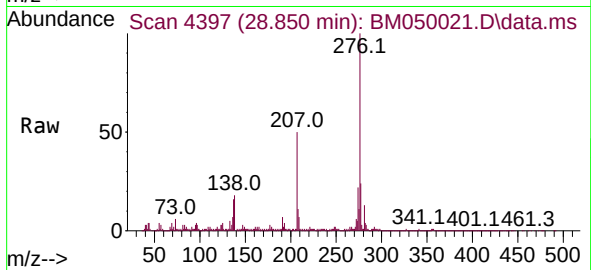
Acq: 23 Apr 2025 19:50

Instrument :

BNA_M

ClientSampleId :

EO-02-04222025



Tgt Ion:276 Resp: 1069577

Ion Ratio Lower Upper

276 100

277 24.5 18.7 28.1

138 17.8 14.6 21.8

