

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050725\
 Data File : BM050132.D
 Acq On : 07 May 2025 12:33
 Operator : RC/JU
 Sample : Q1952-01DL 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CLEAN-FILLDL

Quant Time: May 07 13:10:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 18:09:16 2025
 Response via : Initial Calibration

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

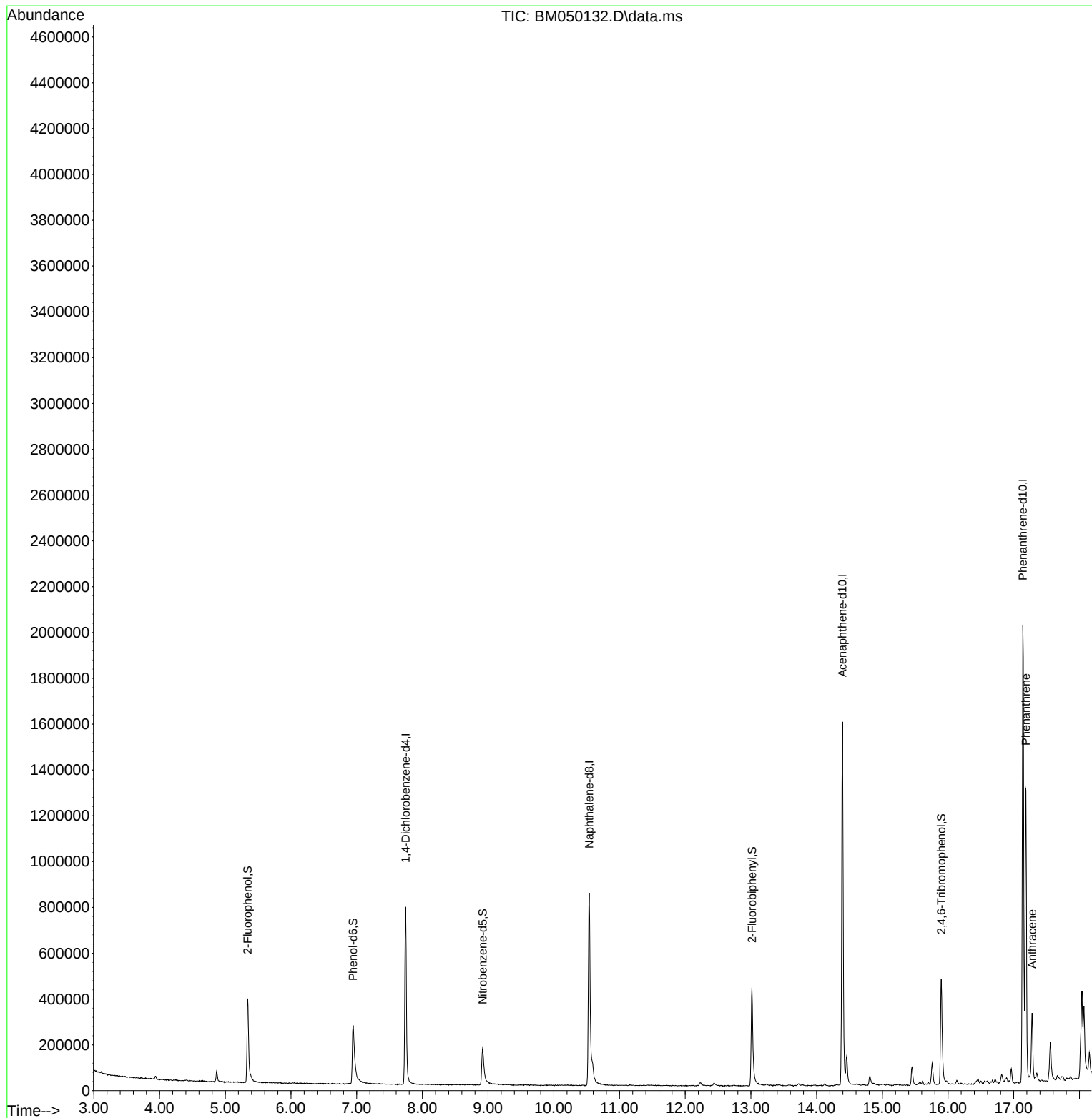
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.745	152	249073	20.000	ng	-0.02
21) Naphthalene-d8	10.539	136	901836	20.000	ng	-0.02
39) Acenaphthene-d10	14.392	164	619661	20.000	ng	-0.02
64) Phenanthrene-d10	17.139	188	1258957	20.000	ng	-0.02
76) Chrysene-d12	21.386	240	1270121	20.000	ng	-0.01
86) Perylene-d12	24.374	264	1240221	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	211663	14.881	ng	-0.02
7) Phenol-d6	6.945	99	270437	15.127	ng	0.00
23) Nitrobenzene-d5	8.916	82	150708	8.235	ng	-0.01
42) 2,4,6-Tribromophenol	15.898	330	112255	12.252	ng	0.00
45) 2-Fluorobiphenyl	13.016	172	313723	5.989	ng	-0.02
79) Terphenyl-d14	19.768	244	424909	4.950	ng	-0.01
Target Compounds						Qvalue
71) Phenanthrene	17.186	178	861926	12.139	ng	99
72) Anthracene	17.280	178	200612	2.792	ng	99
75) Fluoranthene	19.203	202	2197839	26.364	ng	100
78) Pyrene	19.568	202	1794963	20.125	ng	100
81) Benzo(a)anthracene	21.368	228	1268709	14.506	ng	99
83) Chrysene	21.427	228	1083314	13.383	ng	98
87) Indeno(1,2,3-cd)pyrene	27.762	276	534649	5.786	ng	98
88) Benzo(b)fluoranthene	23.433	252	1357402	16.830	ng	99
89) Benzo(k)fluoranthene	23.491	252	455720m	5.586	ng	
90) Benzo(a)pyrene	24.238	252	851252	11.269	ng	97
91) Dibenzo(a,h)anthracene	27.785	278	165887m	2.202	ng	
92) Benzo(g,h,i)perylene	28.815	276	493673	6.845	ng	96

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

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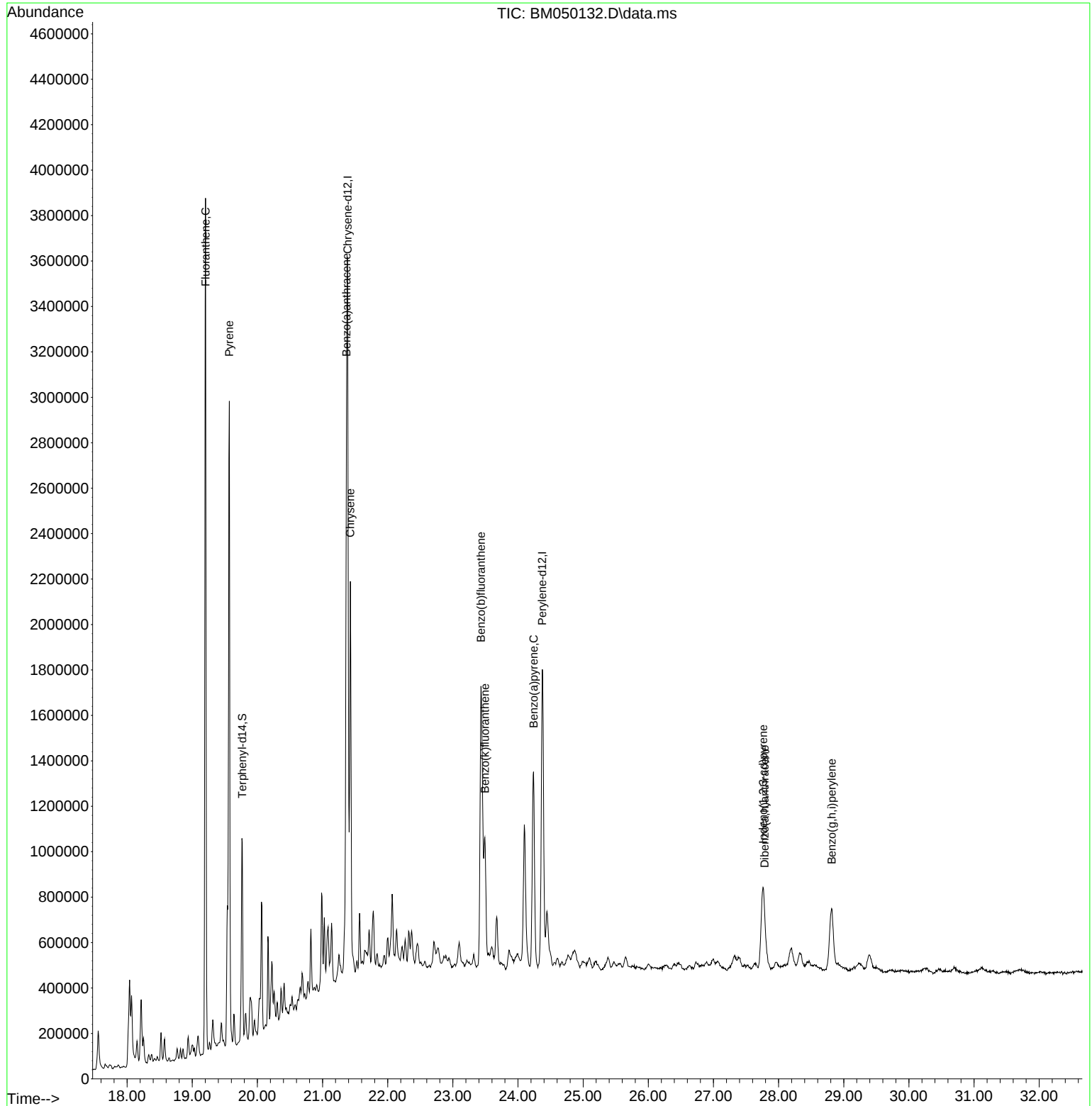
Quant Time: May 07 13:10:20 2025
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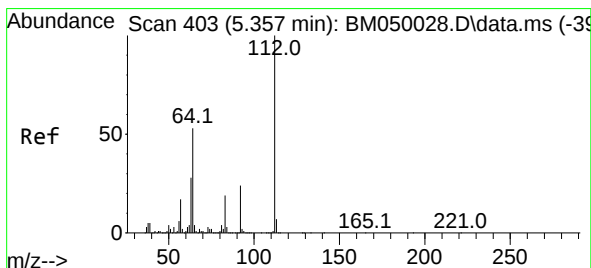
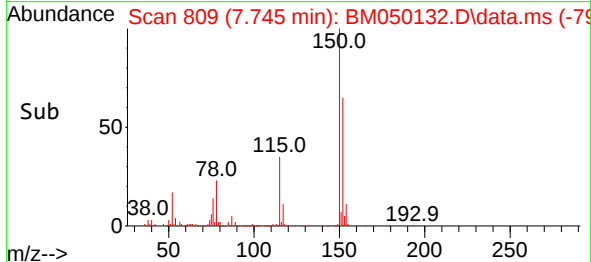
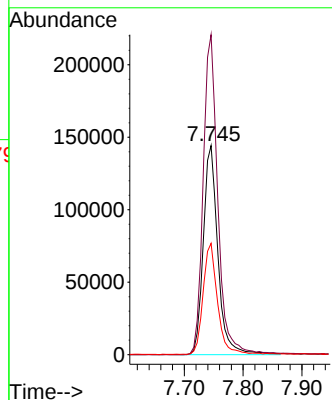
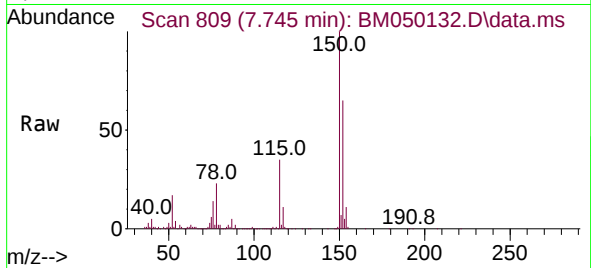




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.745 min Scan# 809
Delta R.T. -0.024 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

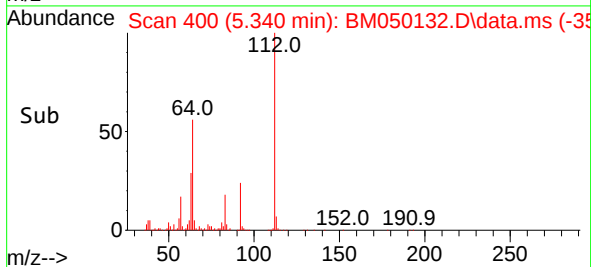
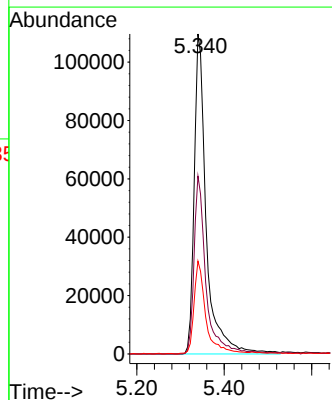
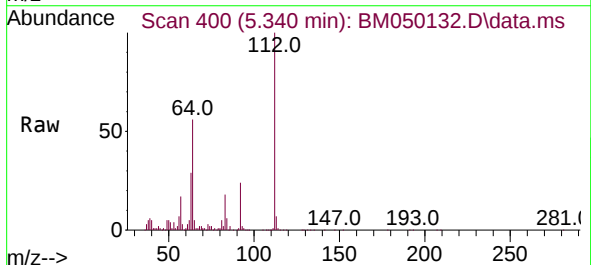
Instrument :
BNA_M
ClientSampleId :
CLEAN-FILLDL

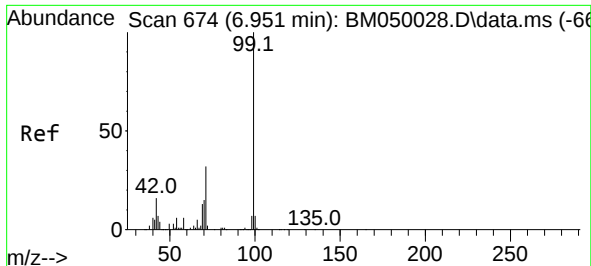
Tgt Ion:152 Resp: 249073
Ion Ratio Lower Upper
152 100
150 153.0 124.1 186.1
115 53.2 41.2 61.8



#5
2-Fluorophenol
Concen: 14.881 ng
RT: 5.340 min Scan# 400
Delta R.T. -0.018 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

Tgt Ion:112 Resp: 211663
Ion Ratio Lower Upper
112 100
64 55.6 42.6 64.0
63 29.0 22.2 33.4

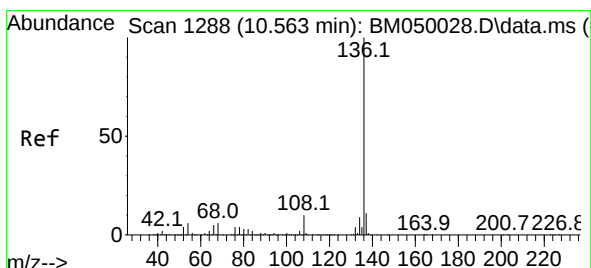
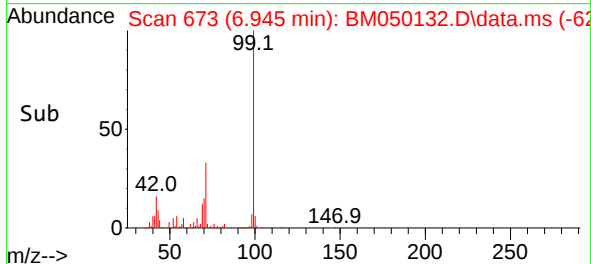
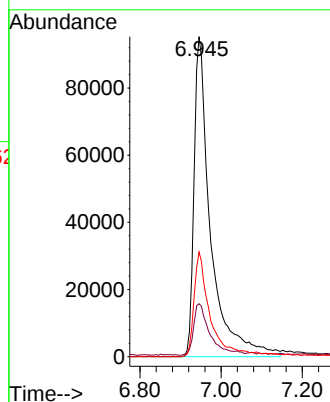
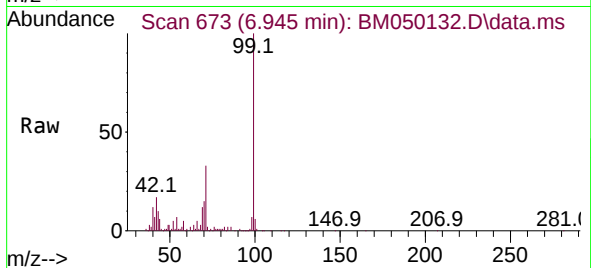




#7
Phenol-d6
Concen: 15.127 ng
RT: 6.945 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

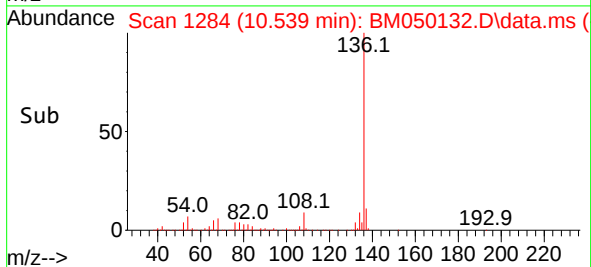
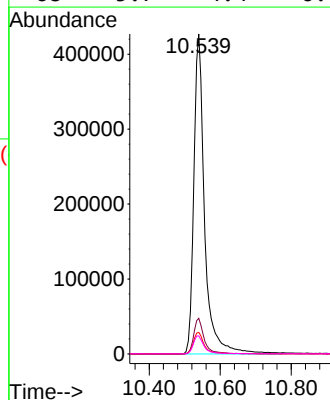
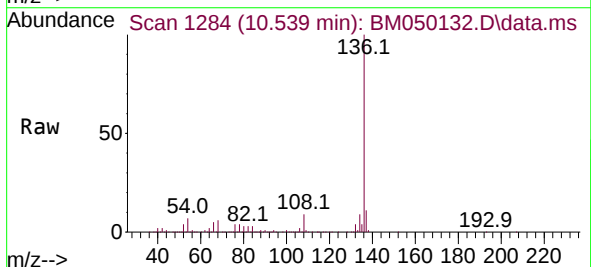
Instrument :
BNA_M
ClientSampleId :
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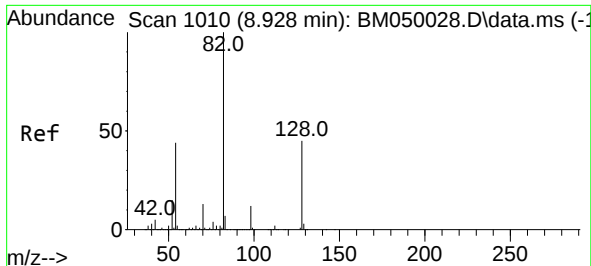
Tgt Ion: 99 Resp: 270437
Ion Ratio Lower Upper
99 100
42 16.5 13.0 19.4
71 32.7 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1284
Delta R.T. -0.024 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

Tgt Ion: 136 Resp: 901836
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 6.8 5.1 7.7
68 5.7 4.4 6.6

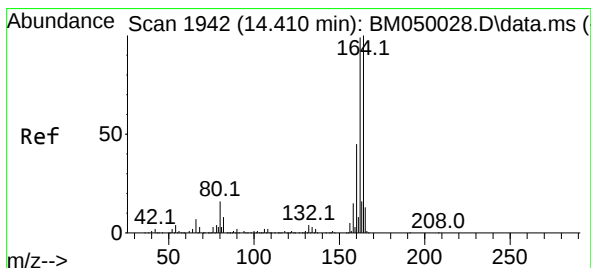
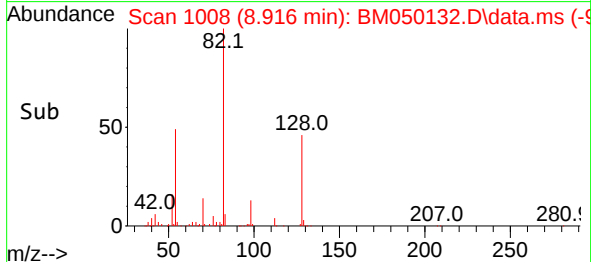
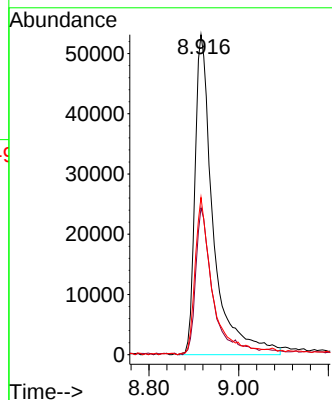
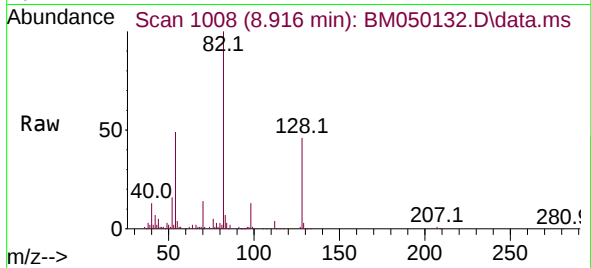




#23
Nitrobenzene-d5
Concen: 8.235 ng
RT: 8.916 min Scan# 1008
Delta R.T. -0.012 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

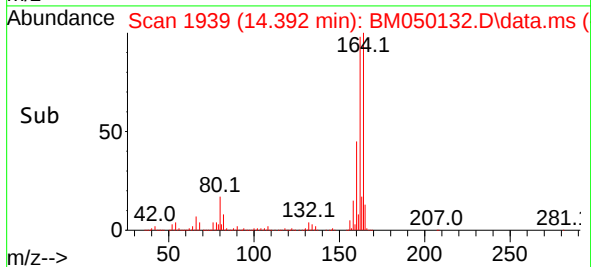
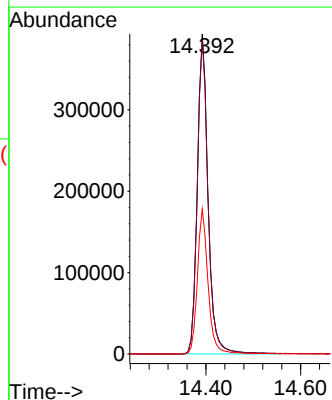
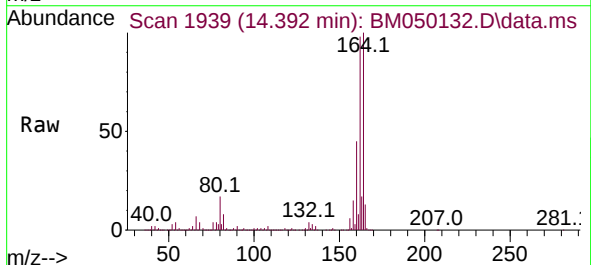
Instrument :
BNA_M
ClientSampleId :
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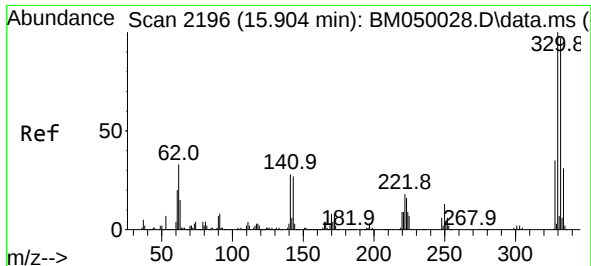
Tgt Ion: 82 Resp: 150708
Ion Ratio Lower Upper
82 100
128 45.9 35.7 53.5
54 49.2 35.4 53.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1939
Delta R.T. -0.018 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

Tgt Ion:164 Resp: 619661
Ion Ratio Lower Upper
164 100
162 98.0 79.4 119.0
160 45.3 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 12.252 ng

RT: 15.898 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM050132.D

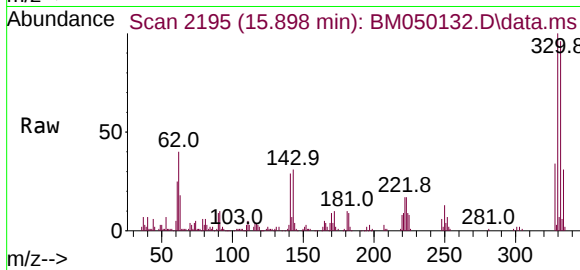
Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL



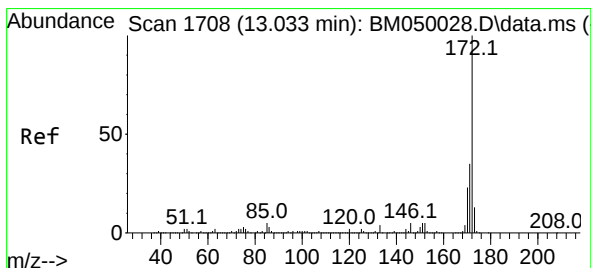
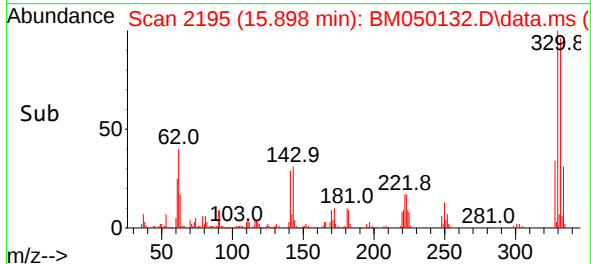
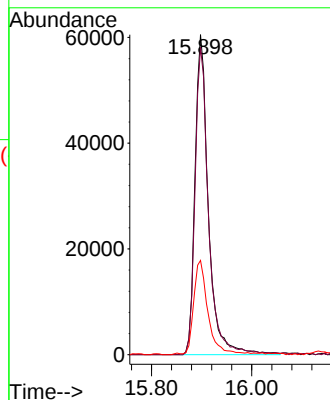
Tgt Ion:330 Resp: 112255

Ion Ratio Lower Upper

330 100

332 96.5 77.3 115.9

141 31.8 22.5 33.7



#45

2-Fluorobiphenyl

Concen: 5.989 ng

RT: 13.016 min Scan# 1705

Delta R.T. -0.018 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

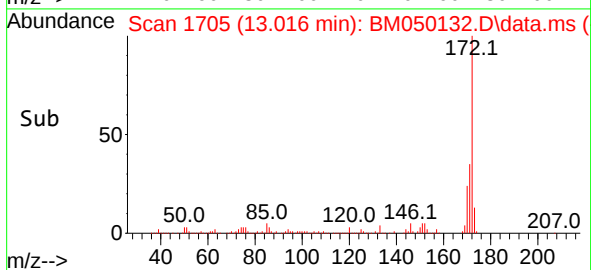
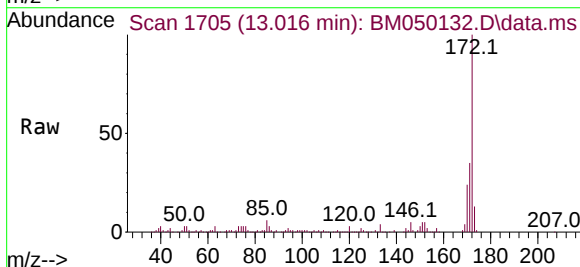
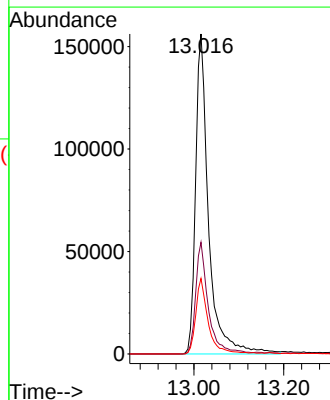
Tgt Ion:172 Resp: 313723

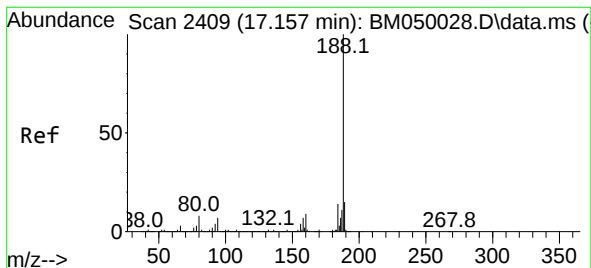
Ion Ratio Lower Upper

172 100

171 34.9 27.8 41.6

170 23.6 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.139 min Scan# 24

Delta R.T. -0.018 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL

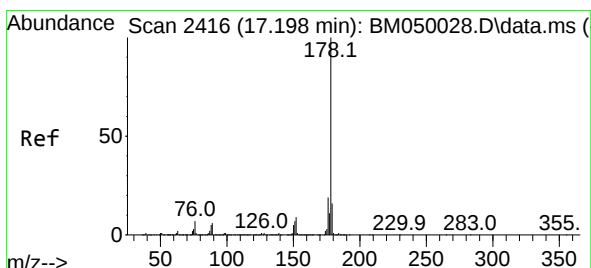
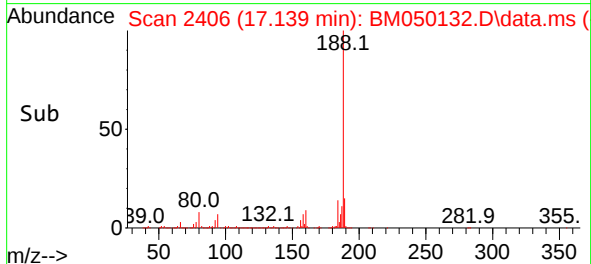
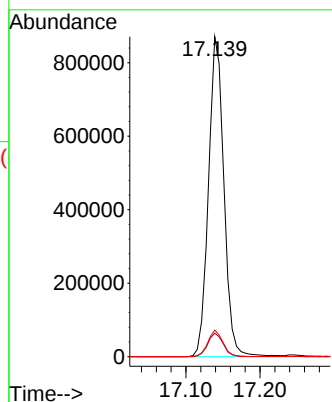
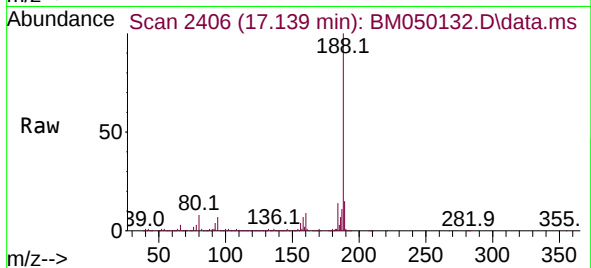
Tgt Ion:188 Resp: 1258957

Ion Ratio Lower Upper

188 100

94 7.3 5.7 8.5

80 8.3 6.2 9.4



#71

Phenanthrene

Concen: 12.139 ng

RT: 17.186 min Scan# 2414

Delta R.T. -0.012 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

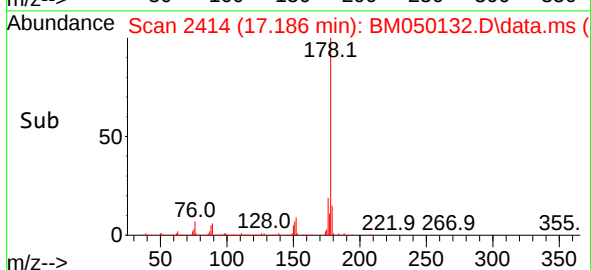
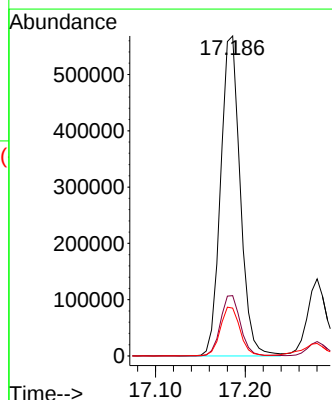
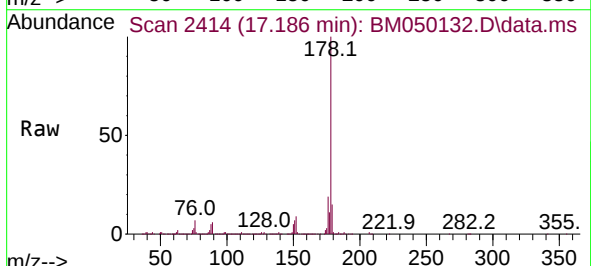
Tgt Ion:178 Resp: 861926

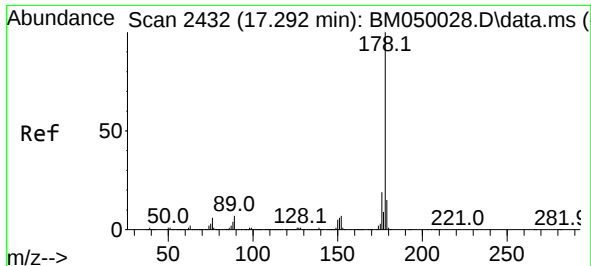
Ion Ratio Lower Upper

178 100

176 18.8 15.3 22.9

179 14.9 12.4 18.6

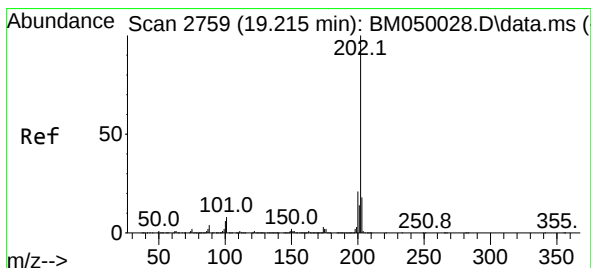
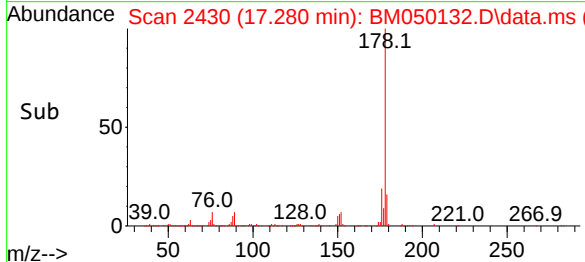
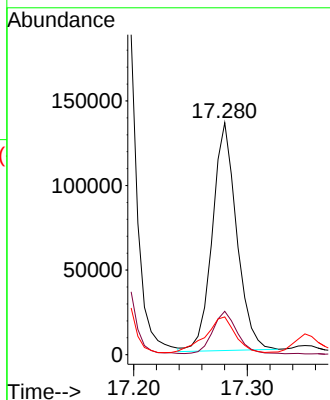
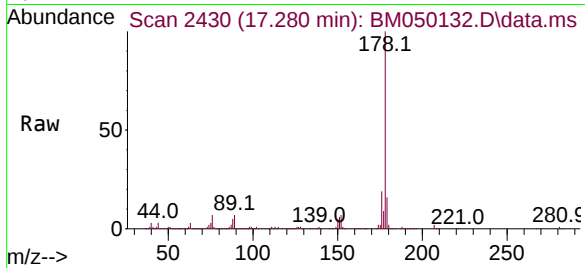




#72
 Anthracene
 Concen: 2.792 ng
 RT: 17.280 min Scan# 2432
 Delta R.T. -0.012 min
 Lab File: BM050132.D
 Acq: 07 May 2025 12:33

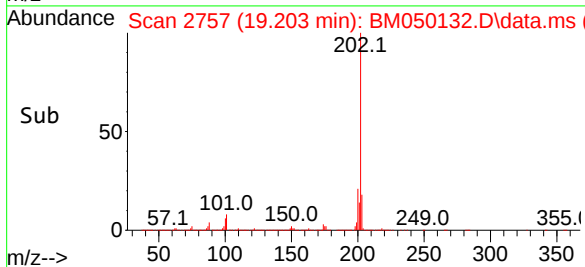
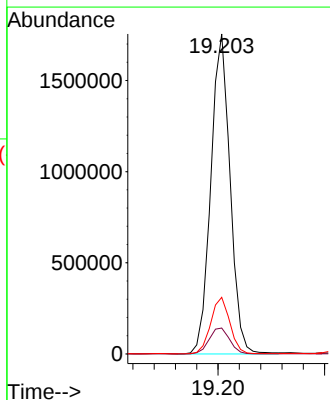
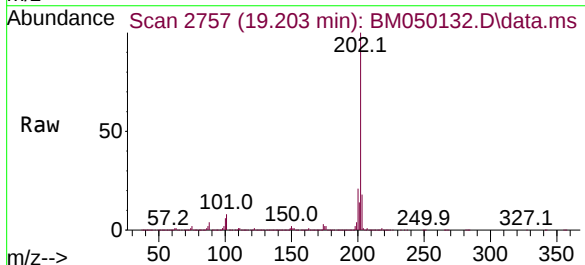
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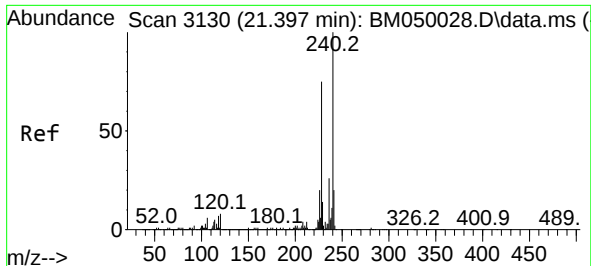
Tgt Ion:178 Resp: 200612
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.0 22.4
 179 16.3 12.2 18.4



#75
 Fluoranthene
 Concen: 26.364 ng
 RT: 19.203 min Scan# 2757
 Delta R.T. -0.012 min
 Lab File: BM050132.D
 Acq: 07 May 2025 12:33

Tgt Ion:202 Resp: 2197839
 Ion Ratio Lower Upper
 202 100
 101 8.1 0.0 28.0
 203 17.7 0.0 37.7

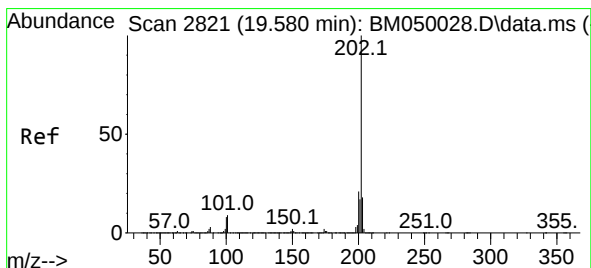
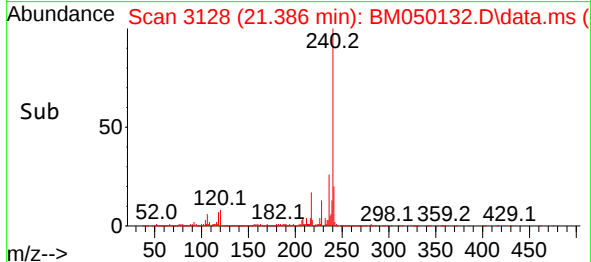
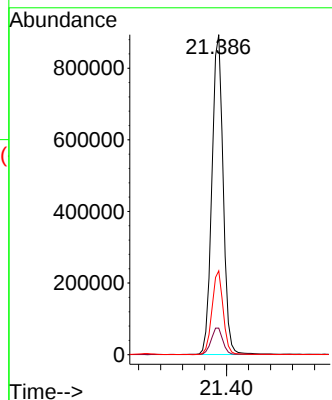
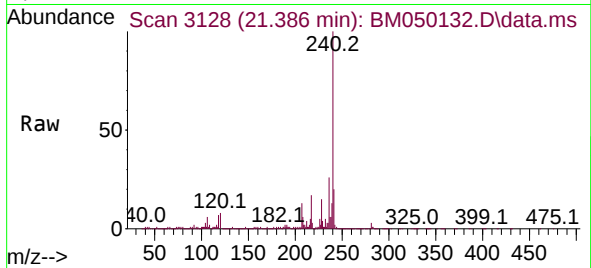




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.386 min Scan# 31
Delta R.T. -0.011 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

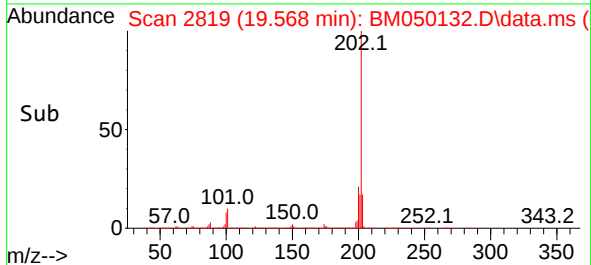
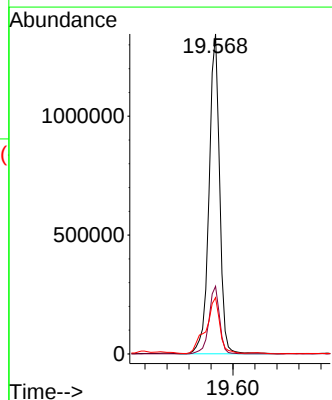
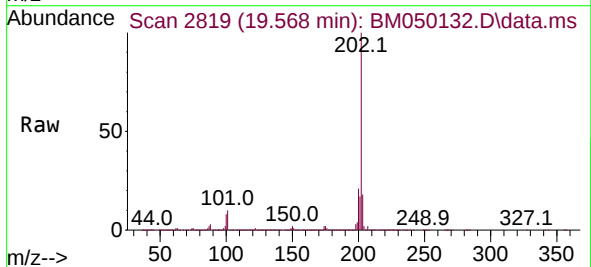
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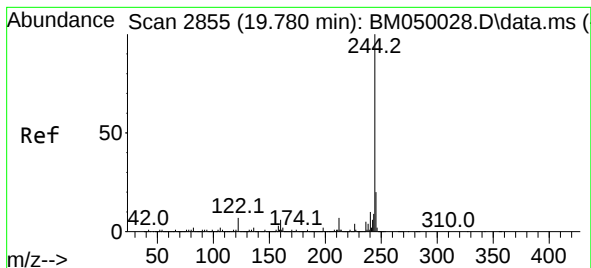
Tgt Ion:240 Resp: 1270121
Ion Ratio Lower Upper
240 100
120 8.3 6.5 9.7
236 26.2 20.9 31.3



#78
Pyrene
Concen: 20.125 ng
RT: 19.568 min Scan# 2819
Delta R.T. -0.012 min
Lab File: BM050132.D
Acq: 07 May 2025 12:33

Tgt Ion:202 Resp: 1794963
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 17.6 14.1 21.1





#79

Terphenyl-d14

Concen: 4.950 ng

RT: 19.768 min Scan# 21

Delta R.T. -0.012 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL

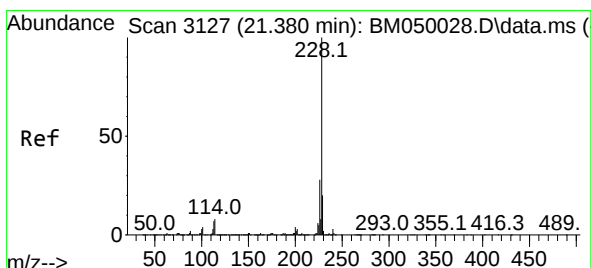
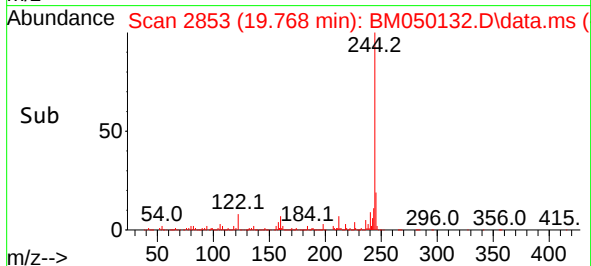
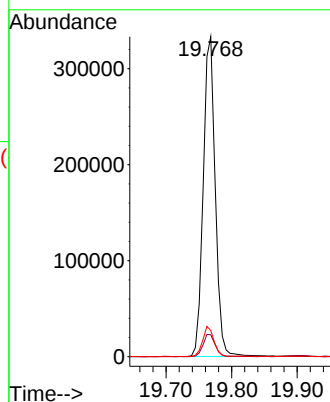
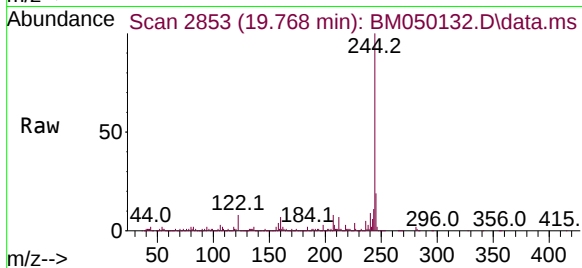
Tgt Ion:244 Resp: 424909

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

122 8.2 5.6 8.4



#81

Benzo(a)anthracene

Concen: 14.506 ng

RT: 21.368 min Scan# 3125

Delta R.T. -0.012 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

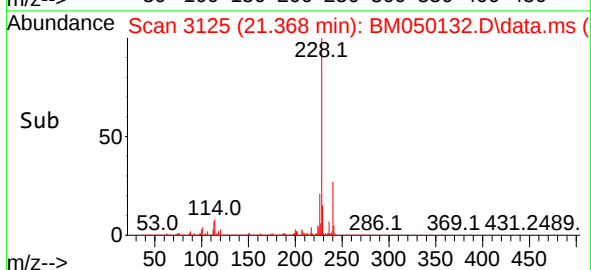
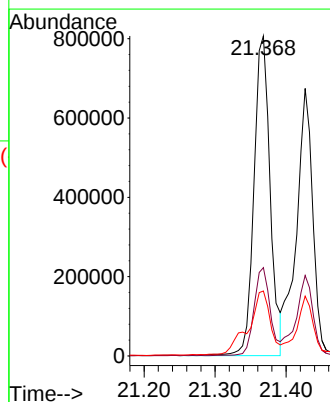
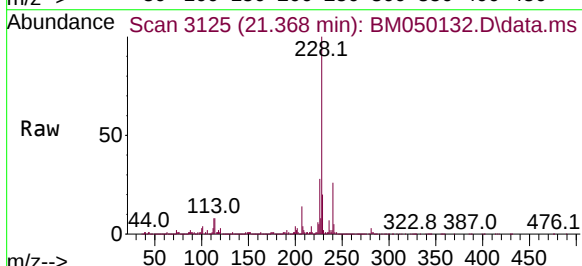
Tgt Ion:228 Resp: 1268709

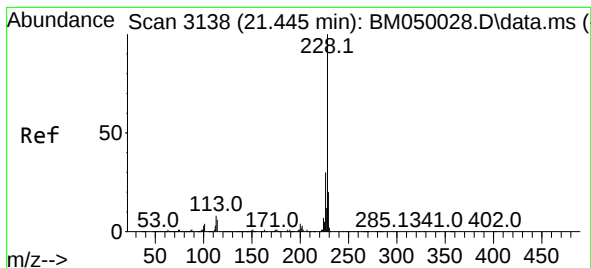
Ion Ratio Lower Upper

228 100

226 27.6 22.1 33.1

229 20.3 15.7 23.5





#83

Chrysene

Concen: 13.383 ng

RT: 21.427 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL

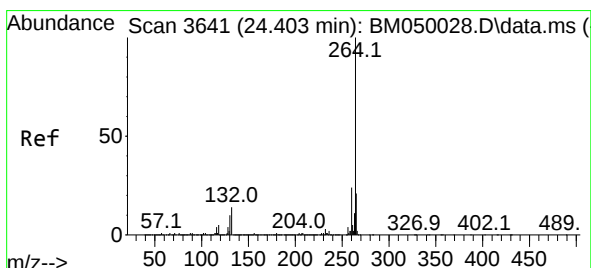
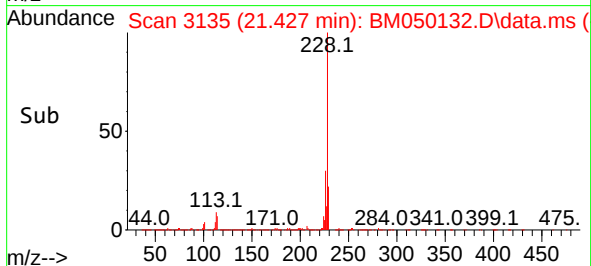
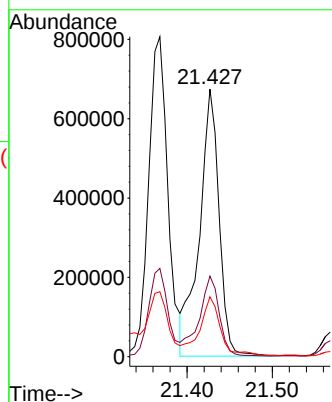
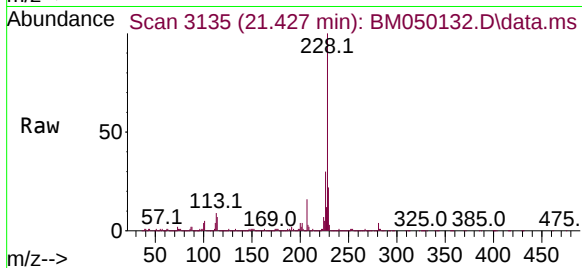
Tgt Ion:228 Resp: 1083314

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.2

229 22.4 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.374 min Scan# 3636

Delta R.T. -0.029 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

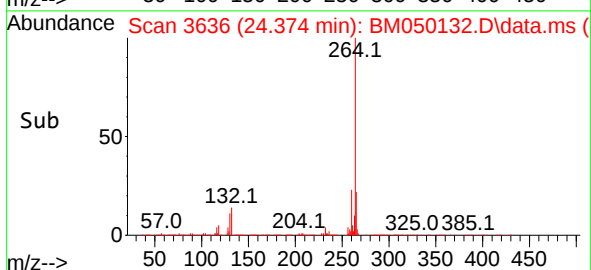
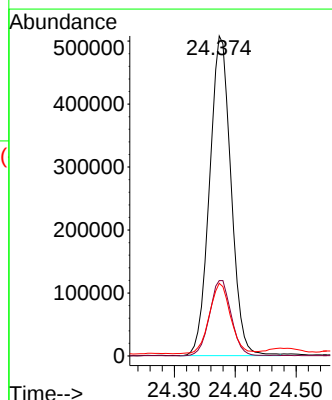
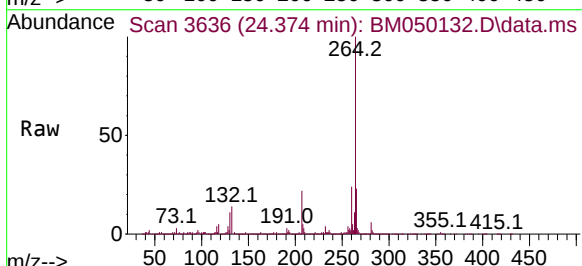
Tgt Ion:264 Resp: 1240221

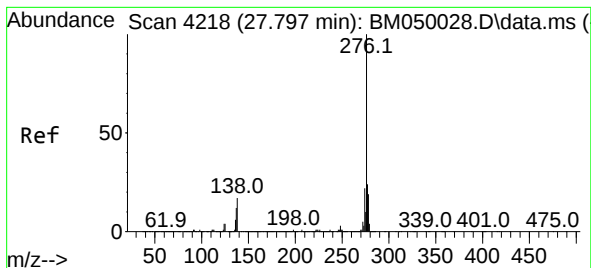
Ion Ratio Lower Upper

264 100

260 23.5 18.8 28.2

265 22.7 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.786 ng

RT: 27.762 min Scan# 41

Delta R.T. -0.035 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL

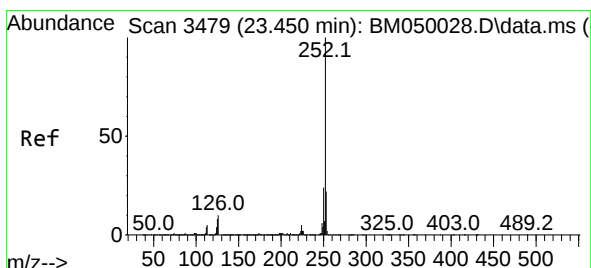
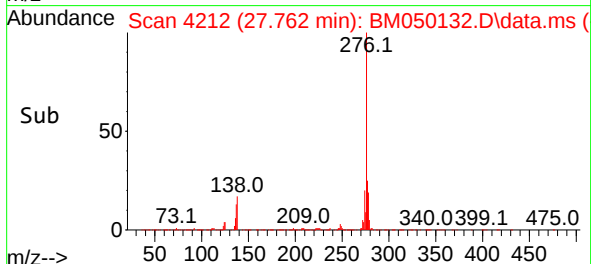
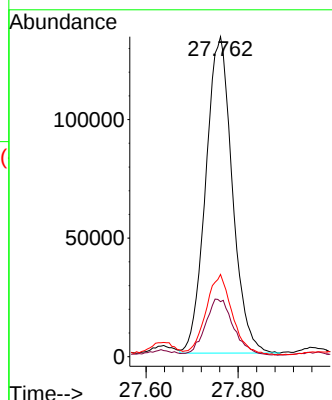
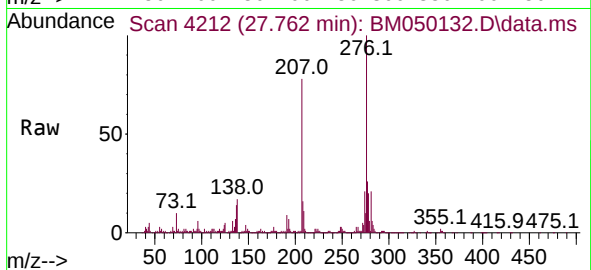
Tgt Ion:276 Resp: 534649

Ion Ratio Lower Upper

276 100

138 18.6 16.4 24.6

277 25.0 19.8 29.8



#88

Benzo(b)fluoranthene

Concen: 16.830 ng

RT: 23.433 min Scan# 3476

Delta R.T. -0.018 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

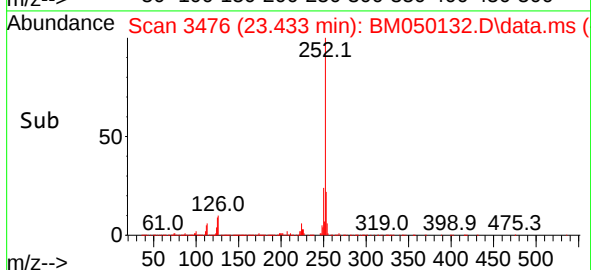
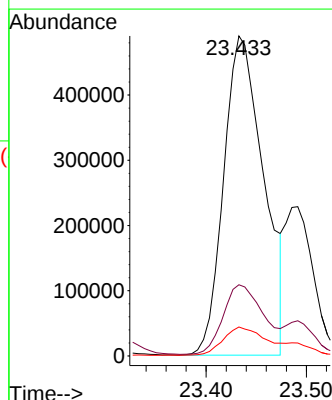
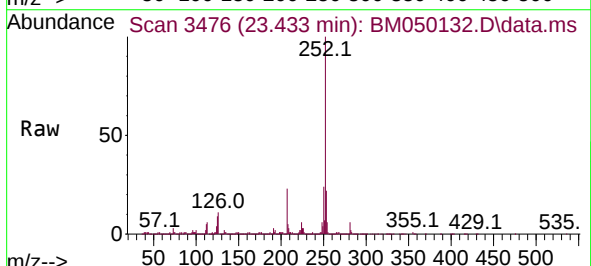
Tgt Ion:252 Resp: 1357402

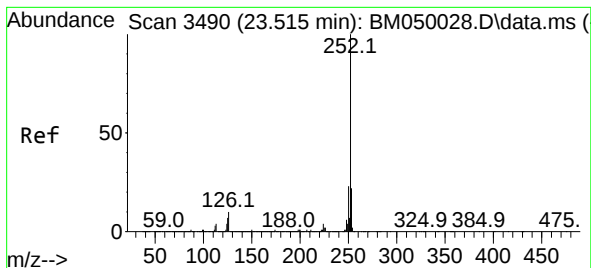
Ion Ratio Lower Upper

252 100

253 22.3 17.7 26.5

125 9.1 6.1 9.1





#89

Benzo(k)fluoranthene

Concen: 5.586 ng m

RT: 23.491 min Scan# 34

Delta R.T. -0.024 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL

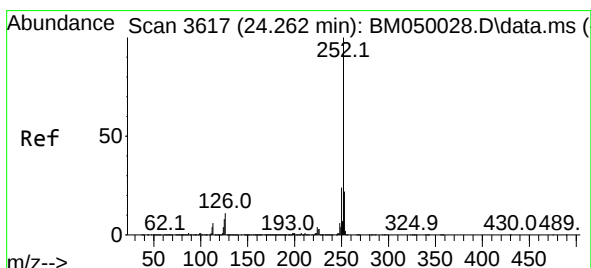
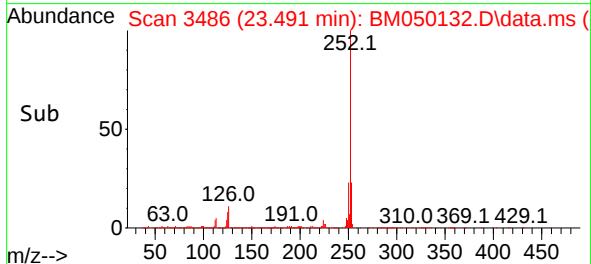
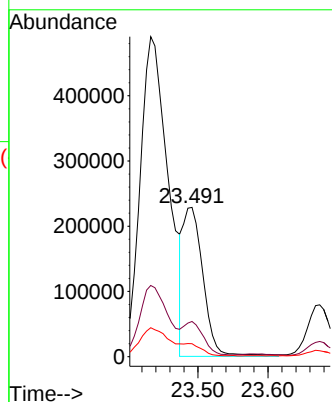
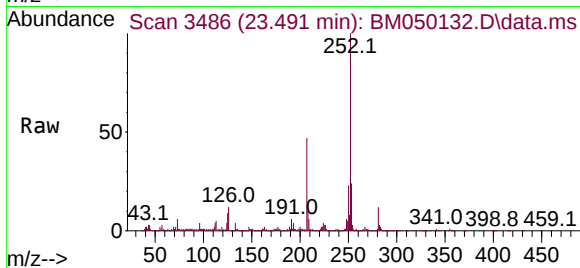
Tgt Ion:252 Resp: 455720

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.2

125 8.7 5.8 8.8



#90

Benzo(a)pyrene

Concen: 11.269 ng

RT: 24.238 min Scan# 3613

Delta R.T. -0.024 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

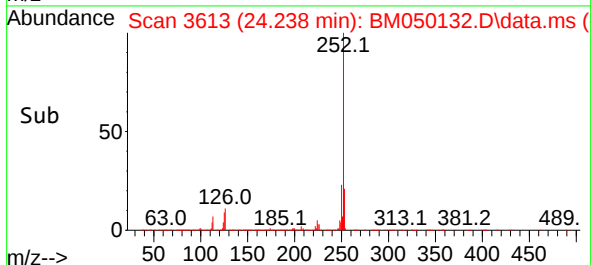
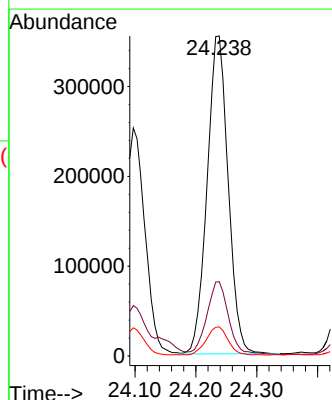
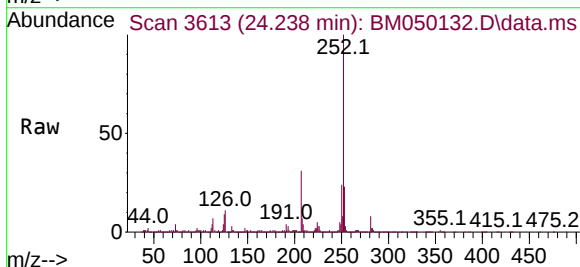
Tgt Ion:252 Resp: 851252

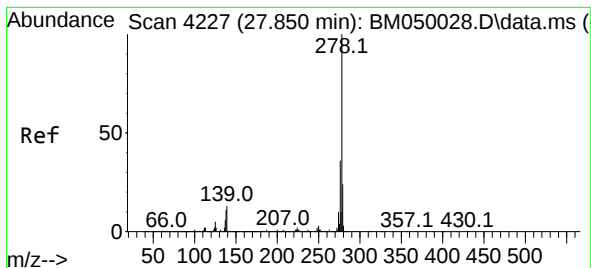
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

125 9.1 6.6 9.8





#91

Dibenzo(a,h)anthracene

Concen: 2.202 ng m

RT: 27.785 min Scan# 41

Delta R.T. -0.065 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Instrument :

BNA_M

ClientSampleId :

CLEAN-FILLDL

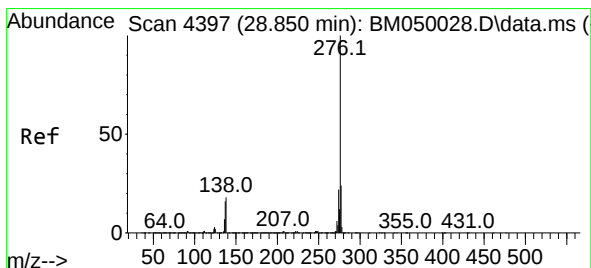
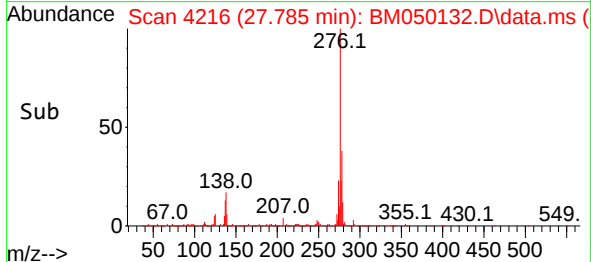
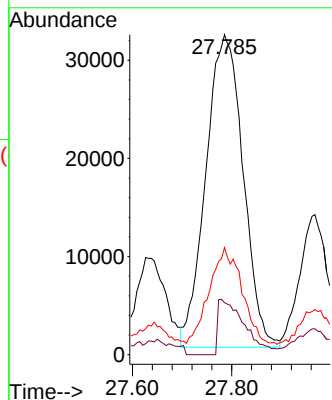
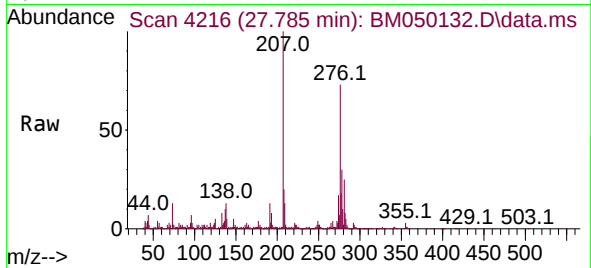
Tgt Ion:278 Resp: 165887

Ion Ratio Lower Upper

278 100

139 16.3 10.5 15.7#

279 33.5 19.4 29.0#



#92

Benzo(g,h,i)perylene

Concen: 6.845 ng

RT: 28.815 min Scan# 4391

Delta R.T. -0.035 min

Lab File: BM050132.D

Acq: 07 May 2025 12:33

Tgt Ion:276 Resp: 493673

Ion Ratio Lower Upper

276 100

277 22.6 19.1 28.7

138 20.0 14.3 21.5

