

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM050225\
 Data File : BM050086.D
 Acq On : 02 May 2025 15:19
 Operator : RC/JU
 Sample : Q1914-06
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SS-5

Quant Time: May 02 15:54:16 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)

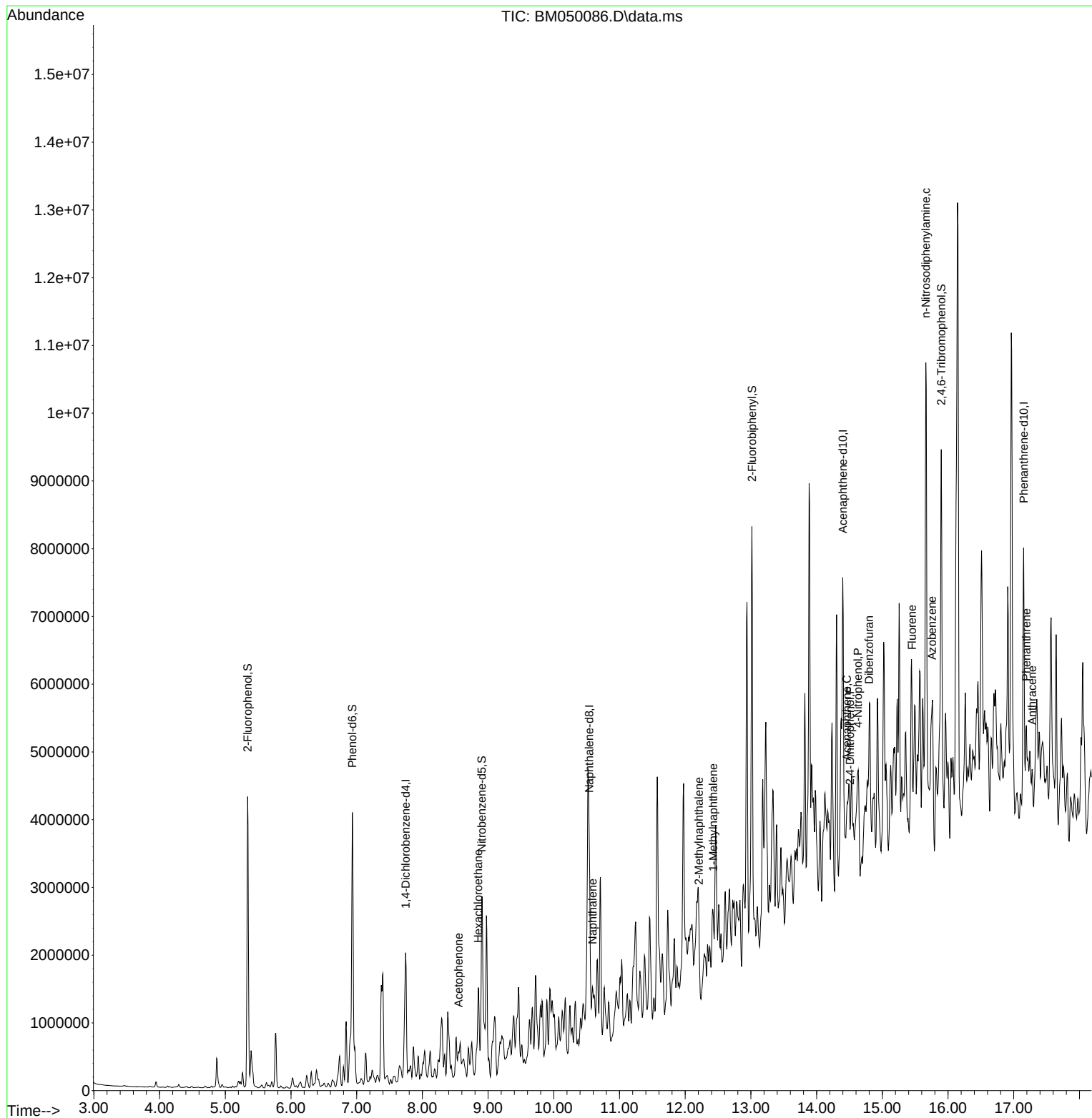
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.745	152	523204	20.000	ng	-0.02
21) Naphthalene-d8	10.539	136	1764557	20.000	ng	#-0.02
39) Acenaphthene-d10	14.398	164	1065844	20.000	ng	-0.01
64) Phenanthrene-d10	17.151	188	2046894	20.000	ng	0.00
76) Chrysene-d12	21.386	240	1456580	20.000	ng	-0.01
86) Perylene-d12	24.374	264	1531120	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	1988784	66.561	ng	-0.02
7) Phenol-d6	6.934	99	2560014	68.169	ng	-0.02
23) Nitrobenzene-d5	8.904	82	1518472	42.404	ng	-0.02
42) 2,4,6-Tribromophenol	15.898	330	1248079	79.193	ng	0.00
45) 2-Fluorobiphenyl	13.016	172	3680421	40.849	ng	-0.02
79) Terphenyl-d14	19.774	244	4589824	46.628	ng	0.00
Target Compounds						Qvalue
18) Hexachloroethane	8.851	117	102644	7.365	ng	# 1
22) Acetophenone	8.551	105	191420	4.363	ng	# 59
31) Naphthalene	10.592	128	180671	2.022	ng	# 82
37) 2-Methylnaphthalene	12.210	142	273638	4.567	ng	97
38) 1-Methylnaphthalene	12.427	142	185798	2.930	ng	# 97
52) Acenaphthene	14.463	154	182524	3.187	ng	96
54) 2,4-Dinitrophenol	14.510	184	997	5.833	ng	# 1
55) Dibenzofuran	14.798	168	233844	2.454	ng	# 69
56) 4-Nitrophenol	14.627	139	56583	8.795	ng	# 3
58) Fluorene	15.451	166	546420	7.006	ng	# 87
63) Azobenzene	15.757	77	192167	3.124	ng	# 1
66) n-Nitrosodiphenylamine	15.663	169	708485	11.272	ng	# 53
71) Phenanthrene	17.192	178	635549	5.505	ng	# 90
72) Anthracene	17.280	178	289565	2.478	ng	# 85
75) Fluoranthene	19.209	202	1153331	8.509	ng	98
78) Pyrene	19.568	202	1220908	11.936	ng	99
81) Benzo(a)anthracene	21.368	228	305972	3.050	ng	96
83) Chrysene	21.427	228	298985	3.221	ng	97
84) Bis(2-ethylhexyl)phtha...	21.286	149	298623	5.219	ng	100
88) Benzo(b)fluoranthene	23.433	252	400750	4.025	ng	97
89) Benzo(k)fluoranthene	23.433	252	400750	3.979	ng	96
90) Benzo(a)pyrene	24.233	252	291970	3.131	ng	98
92) Benzo(g,h,i)perylene	28.803	276	198766	2.232	ng	98

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

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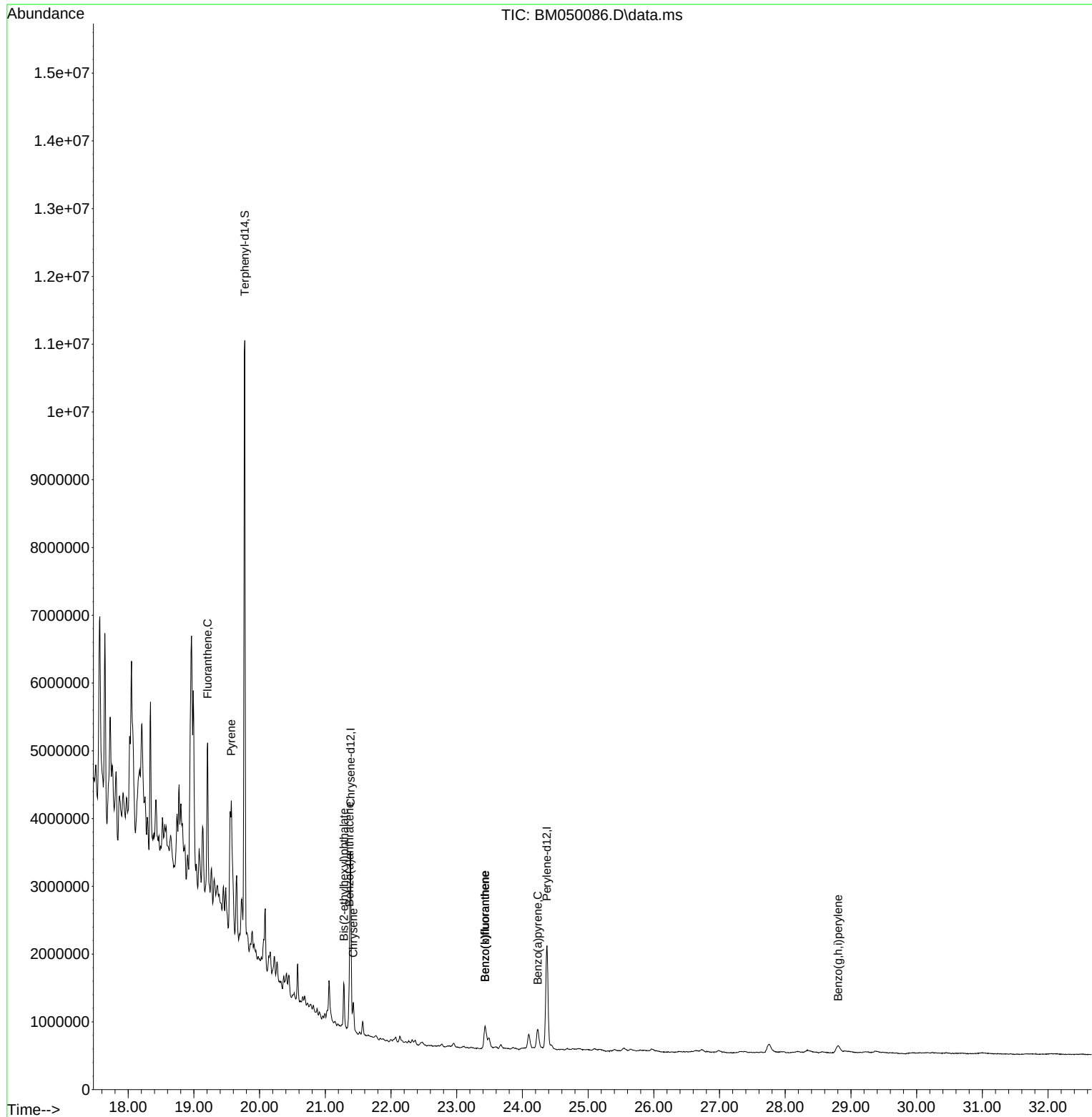
Quant Time: May 02 15:54:16 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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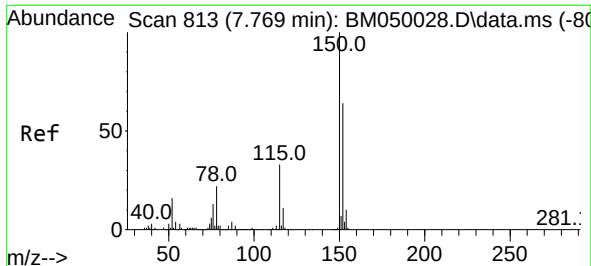


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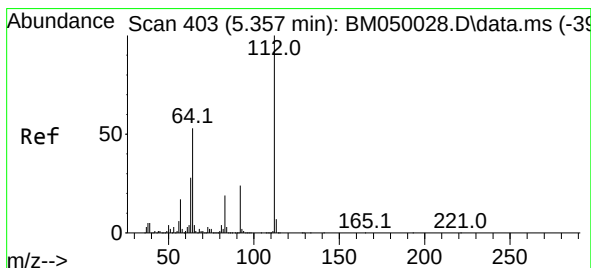
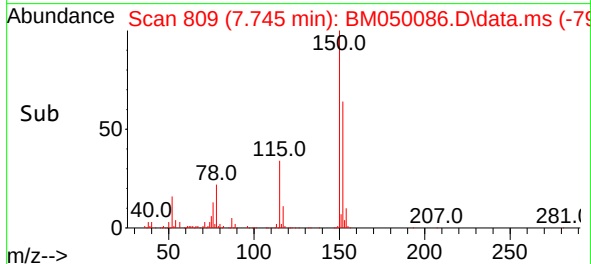
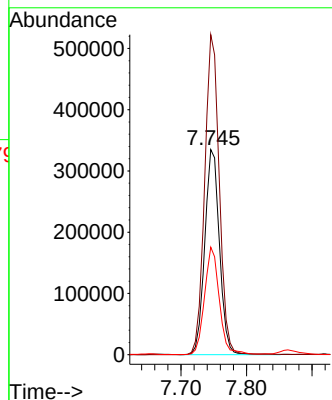
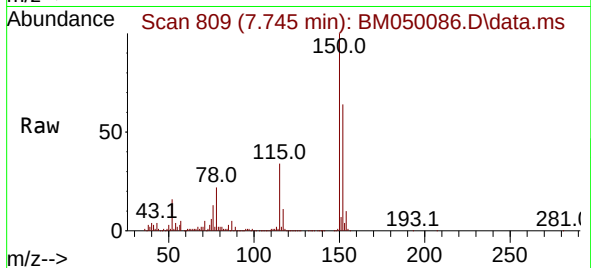




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.745 min Scan# 80
Delta R.T. -0.024 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

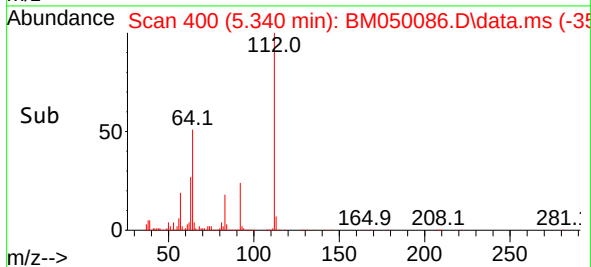
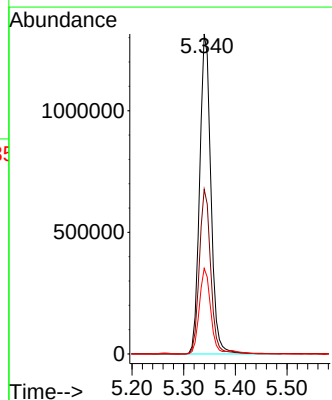
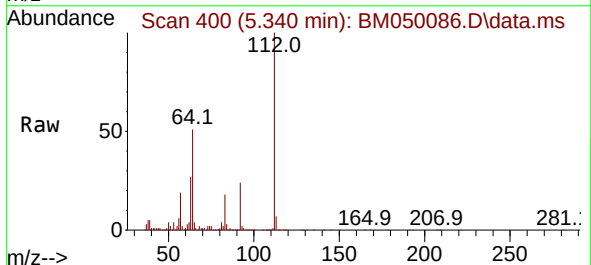
Instrument :
BNA_M
ClientSampleId :
SS-5

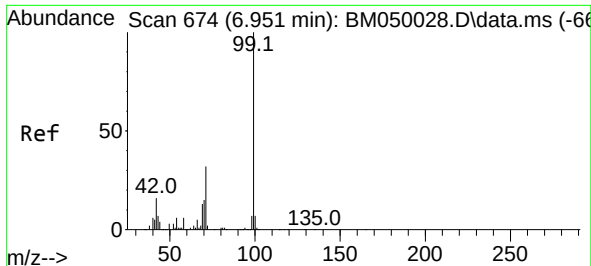
Tgt Ion:152 Resp: 523204
Ion Ratio Lower Upper
152 100
150 156.0 124.1 186.1
115 52.4 41.2 61.8



#5
2-Fluorophenol
Concen: 66.561 ng
RT: 5.340 min Scan# 400
Delta R.T. -0.018 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:112 Resp: 1988784
Ion Ratio Lower Upper
112 100
64 51.5 42.6 64.0
63 26.8 22.2 33.4

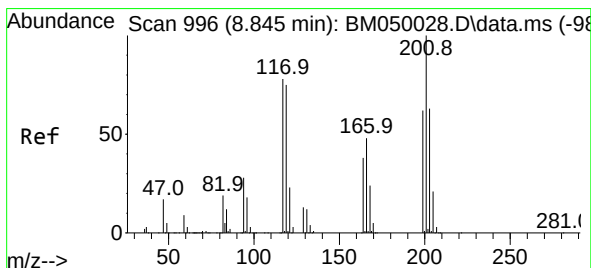
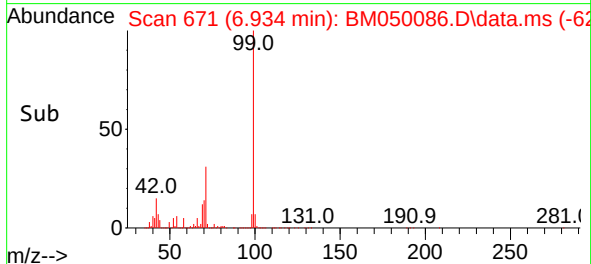
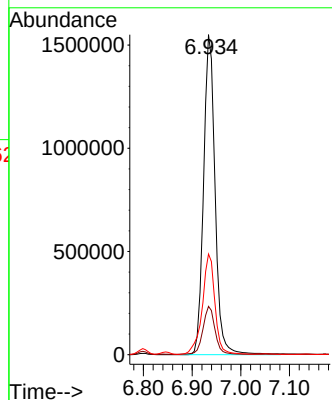
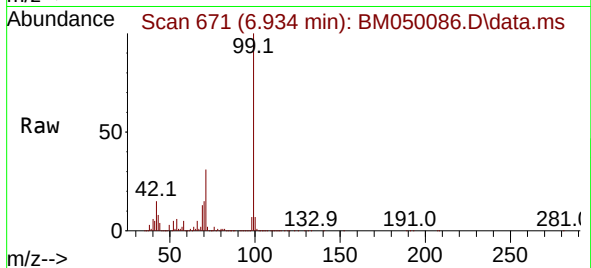




#7
Phenol-d6
Concen: 68.169 ng
RT: 6.934 min Scan# 61
Delta R.T. -0.018 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

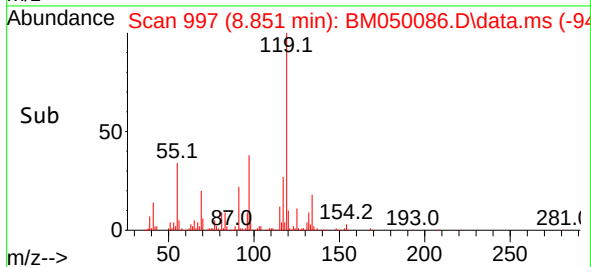
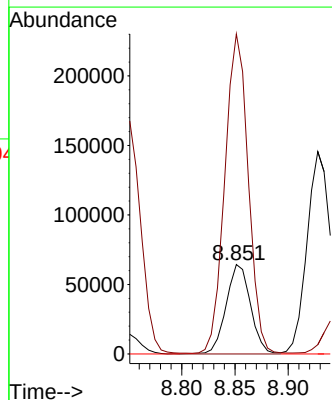
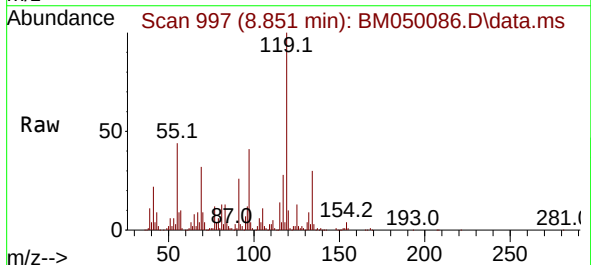
Instrument :
BNA_M
ClientSampleId :
SS-5

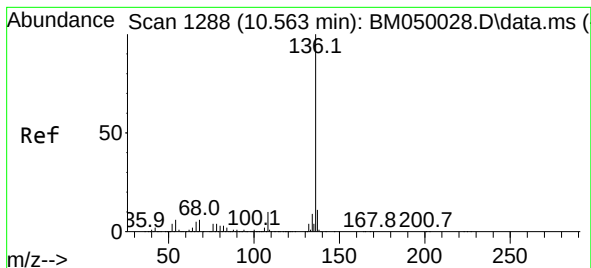
Tgt Ion: 99 Resp: 2560014
Ion Ratio Lower Upper
99 100
42 15.1 13.0 19.4
71 31.4 25.6 38.4



#18
Hexachloroethane
Concen: 7.365 ng
RT: 8.851 min Scan# 997
Delta R.T. 0.006 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion: 117 Resp: 102644
Ion Ratio Lower Upper
117 100
119 357.6 77.3 115.9#
201 0.0 102.8 154.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.539 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5

Tgt Ion:136 Resp: 1764557

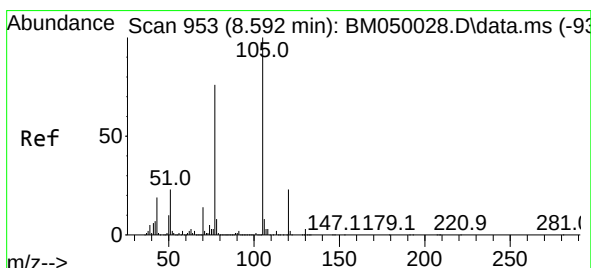
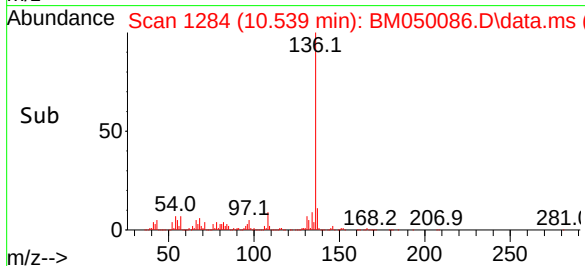
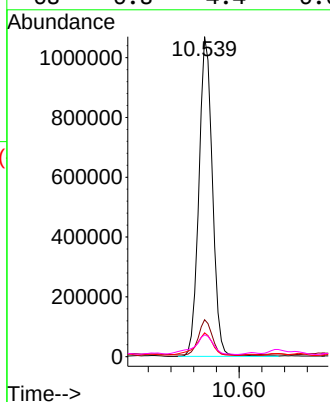
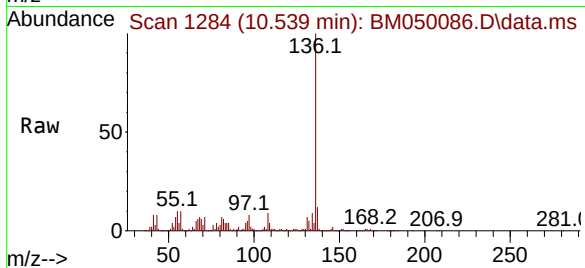
Ion Ratio Lower Upper

136 100

137 11.6 8.9 13.3

54 7.4 5.1 7.7

68 6.8 4.4 6.6#



#22

Acetophenone

Concen: 4.363 ng

RT: 8.551 min Scan# 946

Delta R.T. -0.041 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

Tgt Ion:105 Resp: 191420

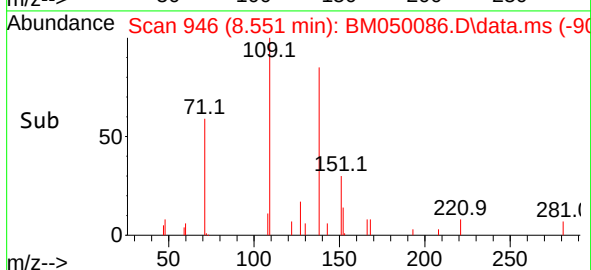
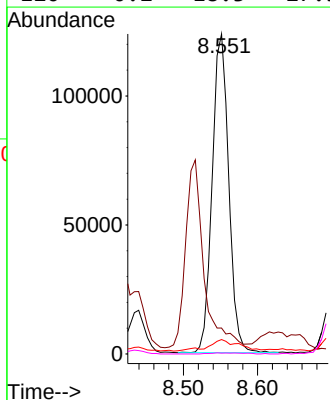
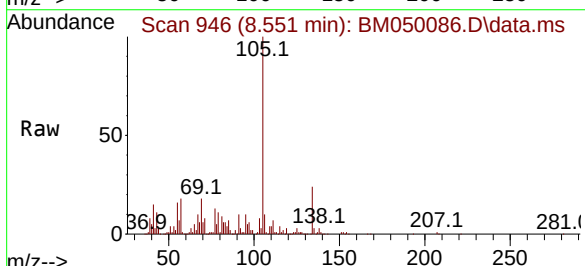
Ion Ratio Lower Upper

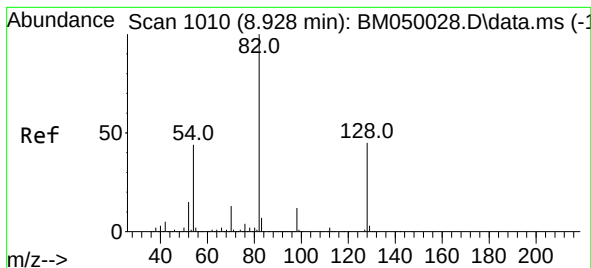
105 100

71 8.1 1.7 2.5#

51 4.5 18.6 27.8#

120 0.2 18.3 27.5#





#23

Nitrobenzene-d5

Concen: 42.404 ng

RT: 8.904 min Scan# 1006

Delta R.T. -0.024 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5

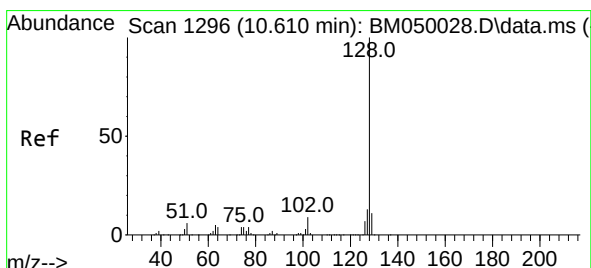
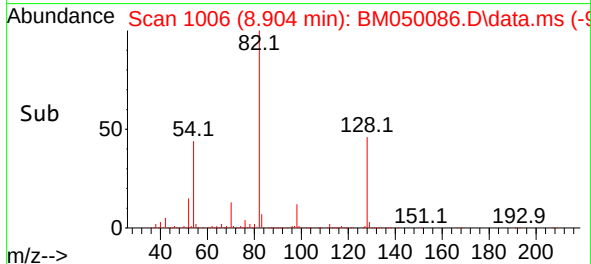
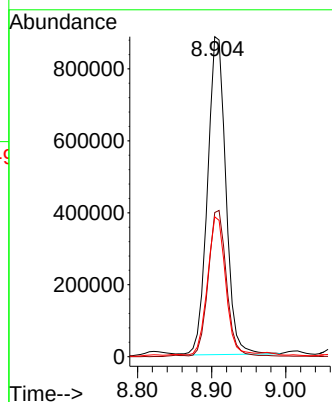
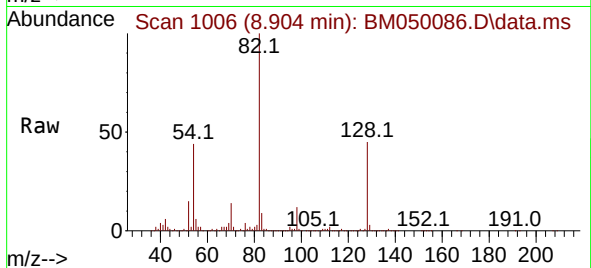
Tgt Ion: 82 Resp: 1518472

Ion Ratio Lower Upper

82 100

128 45.1 35.7 53.5

54 43.7 35.4 53.2



#31

Naphthalene

Concen: 2.022 ng

RT: 10.592 min Scan# 1293

Delta R.T. -0.018 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

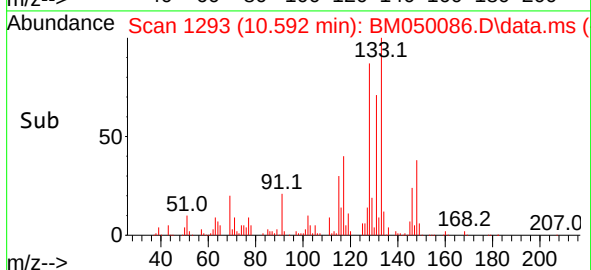
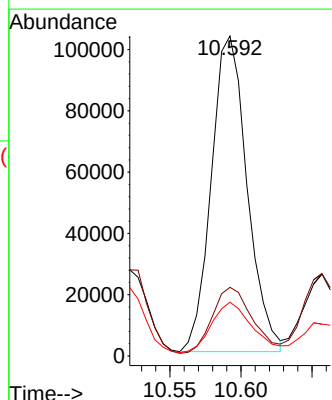
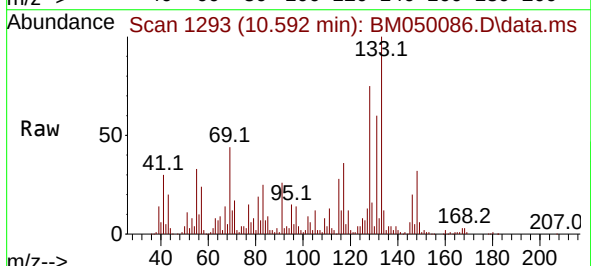
Tgt Ion:128 Resp: 180671

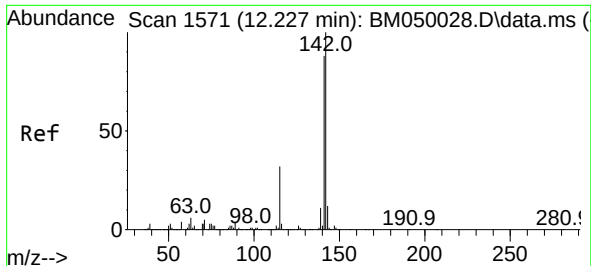
Ion Ratio Lower Upper

128 100

129 21.4 8.8 13.2#

127 16.8 10.4 15.6#

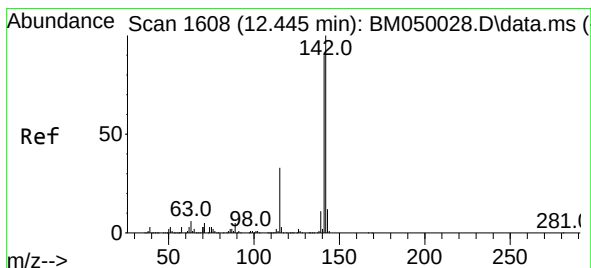
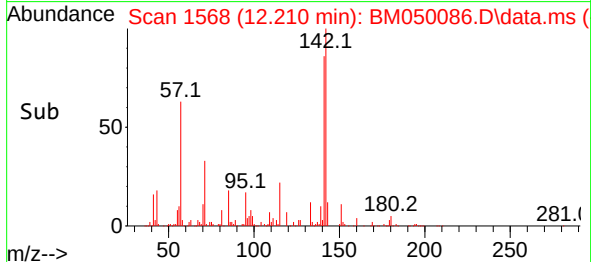
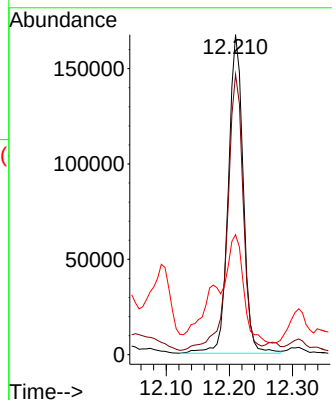
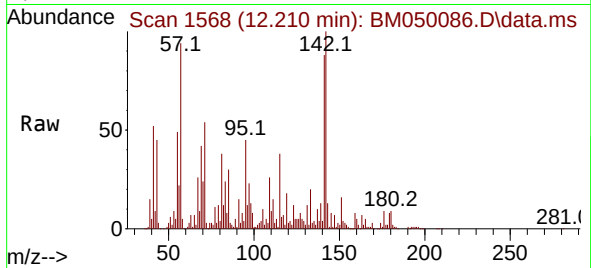




#37
2-Methylnaphthalene
Concen: 4.567 ng
RT: 12.210 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

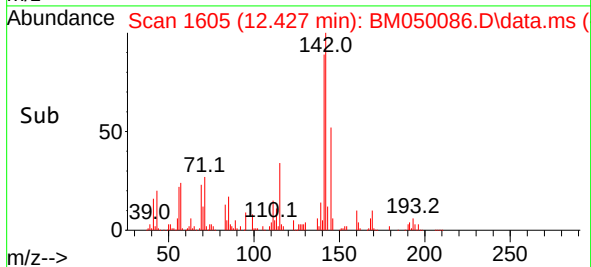
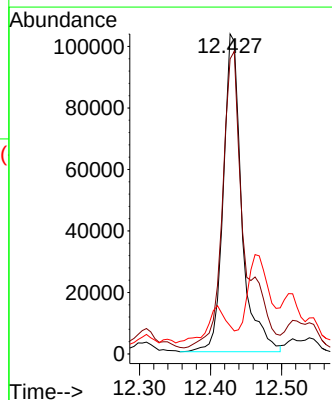
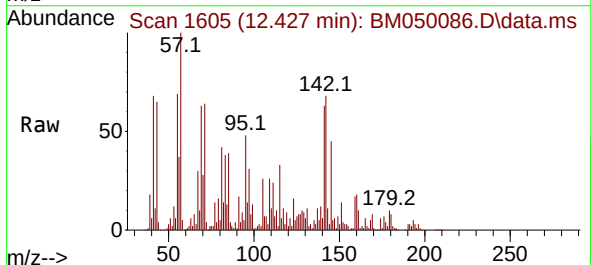
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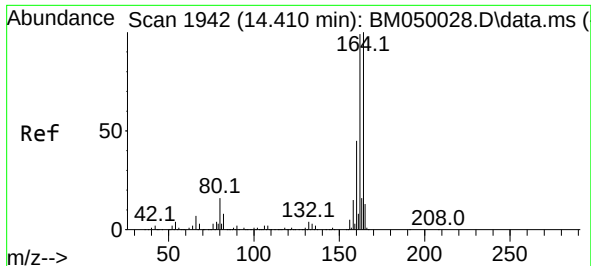
Tgt Ion:142 Resp: 273638
Ion Ratio Lower Upper
142 100
141 87.6 70.4 105.6
115 37.5 25.4 38.2



#38
1-Methylnaphthalene
Concen: 2.930 ng
RT: 12.427 min Scan# 1605
Delta R.T. -0.018 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:142 Resp: 185798
Ion Ratio Lower Upper
142 100
141 92.2 72.1 108.1
116 8.8 2.7 4.1#

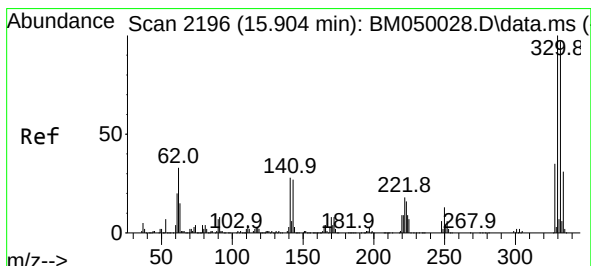
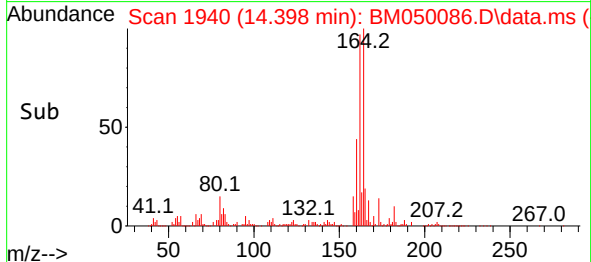
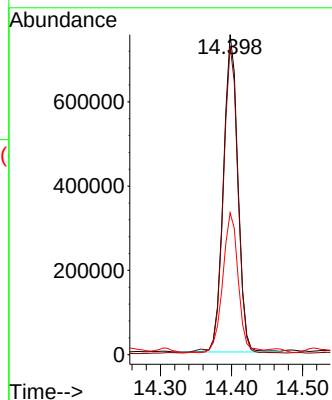
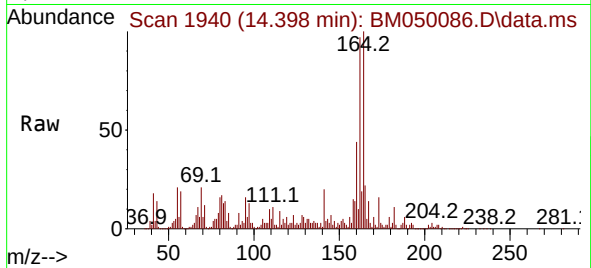




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.398 min Scan# 1940
Delta R.T. -0.012 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

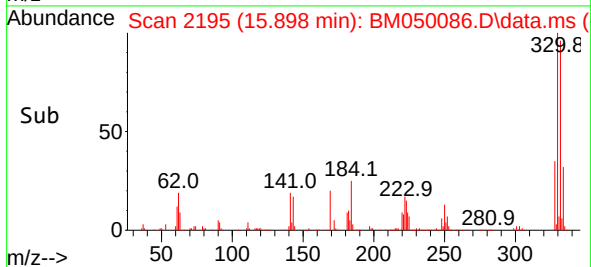
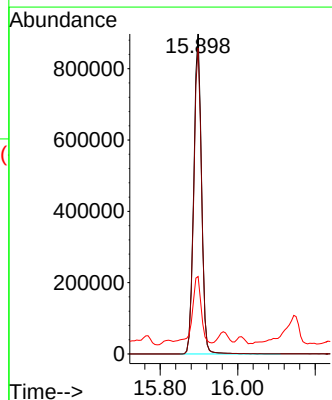
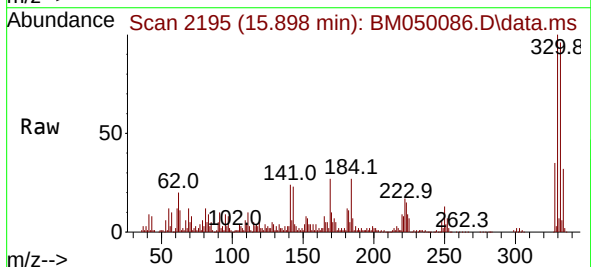
Instrument :
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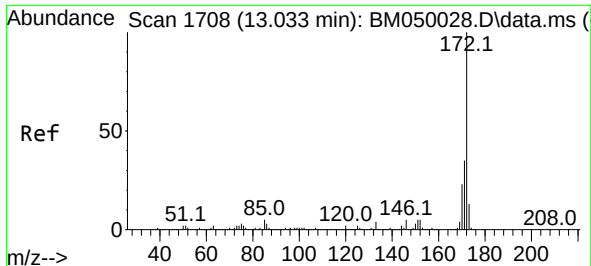
Tgt Ion:164 Resp: 1065844
Ion Ratio Lower Upper
164 100
162 96.5 79.4 119.0
160 44.3 36.2 54.4



#42
2,4,6-Tribromophenol
Concen: 79.193 ng
RT: 15.898 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:330 Resp: 1248079
Ion Ratio Lower Upper
330 100
332 96.0 77.3 115.9
141 23.1 22.5 33.7

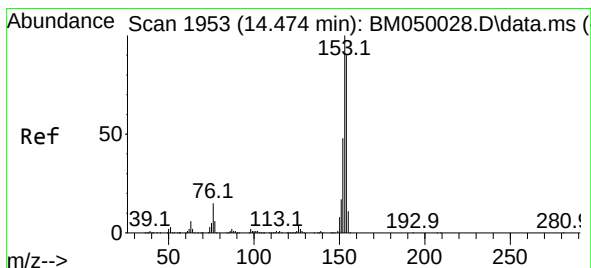
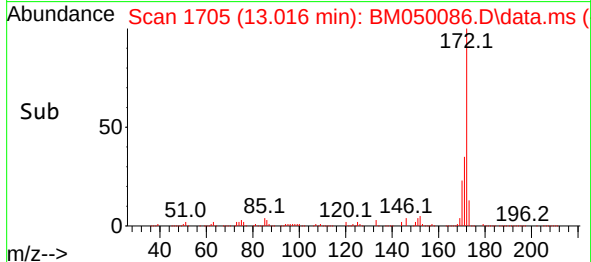
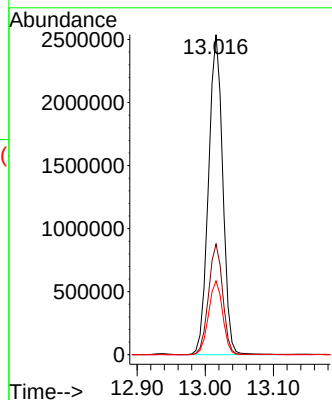
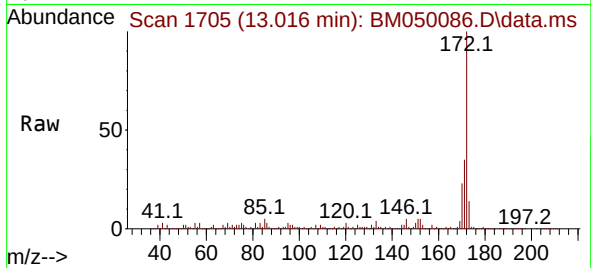




#45
2-Fluorobiphenyl
Concen: 40.849 ng
RT: 13.016 min Scan# 1
Delta R.T. -0.018 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

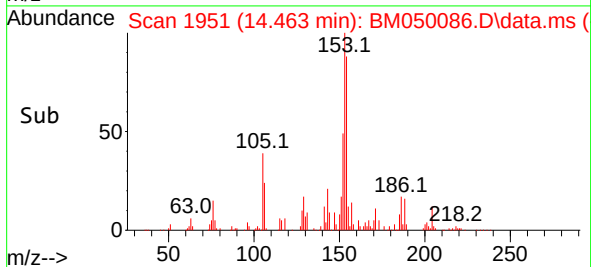
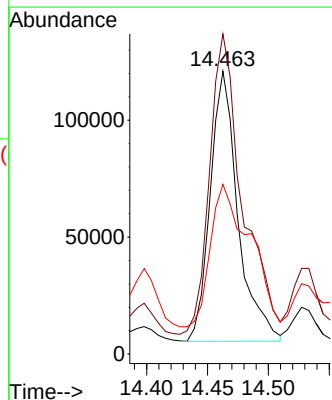
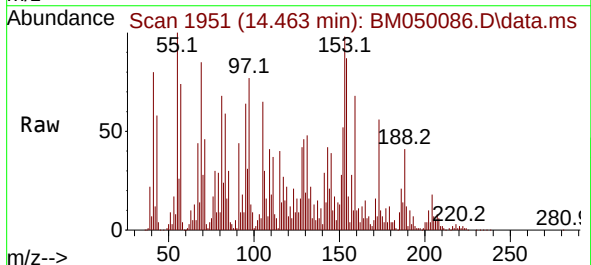
Instrument :
BNA_M
ClientSampleId :
SS-5

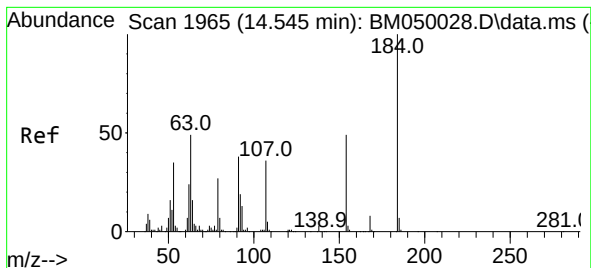
Tgt Ion:172 Resp: 3680421
Ion Ratio Lower Upper
172 100
171 34.6 27.8 41.6
170 23.1 18.6 28.0



#52
Acenaphthene
Concen: 3.187 ng
RT: 14.463 min Scan# 1951
Delta R.T. -0.012 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:154 Resp: 182524
Ion Ratio Lower Upper
154 100
153 113.2 89.0 133.4
152 60.0 43.0 64.6

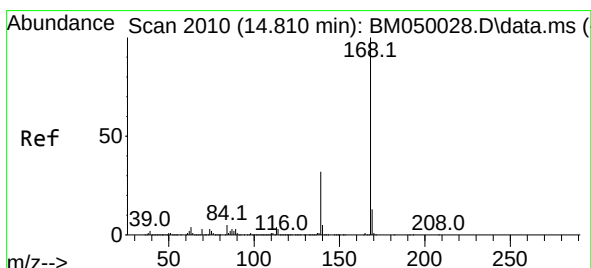
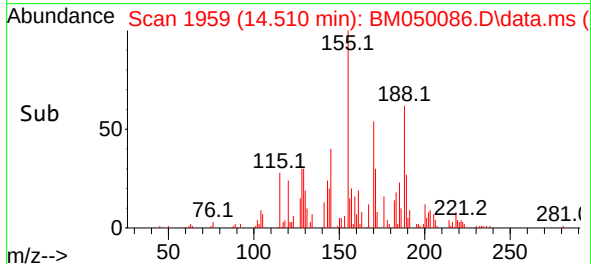
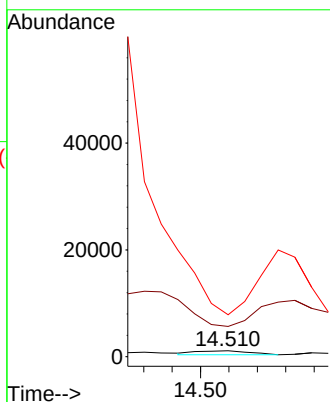
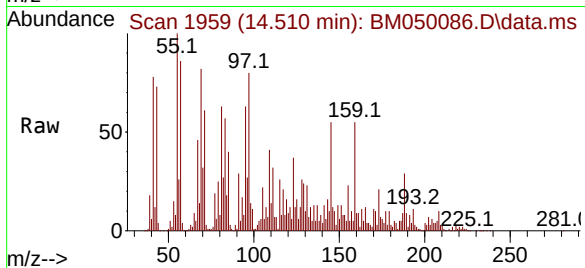




#54
2,4-Dinitrophenol
Concen: 5.833 ng
RT: 14.510 min Scan# 1965
Delta R.T. -0.035 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

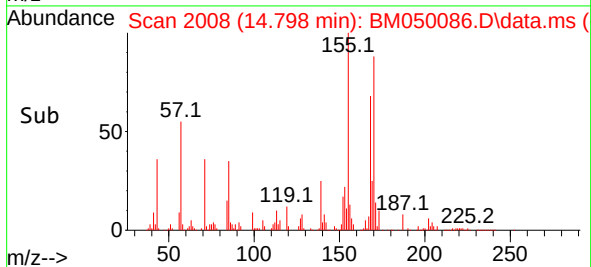
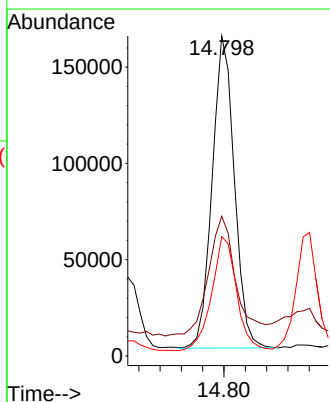
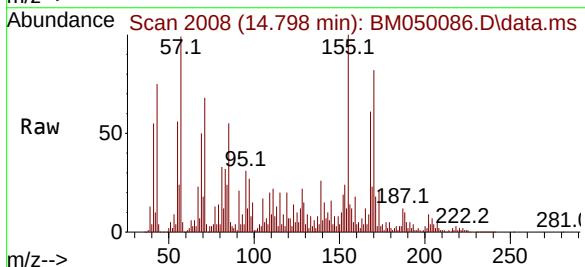
Instrument :
BNA_M
ClientSampleId :
SS-5

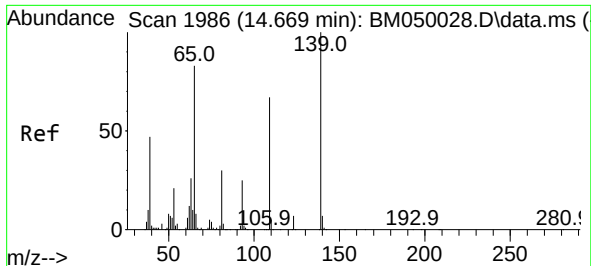
Tgt Ion:184 Resp: 997
Ion Ratio Lower Upper
184 100
63 510.7 39.8 59.6#
154 709.5 46.1 69.1#



#55
Dibenzofuran
Concen: 2.454 ng
RT: 14.798 min Scan# 2008
Delta R.T. -0.012 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:168 Resp: 233844
Ion Ratio Lower Upper
168 100
139 43.6 26.1 39.1#
169 37.3 10.8 16.2#

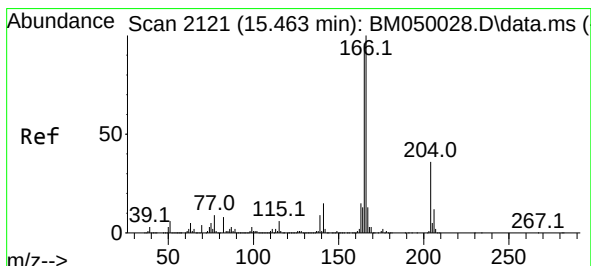
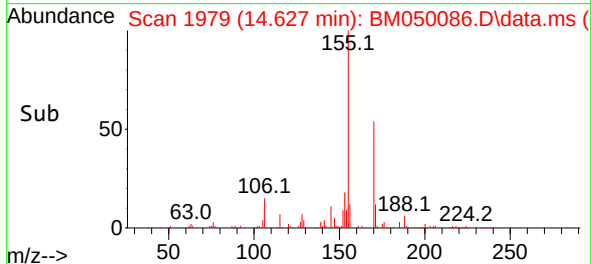
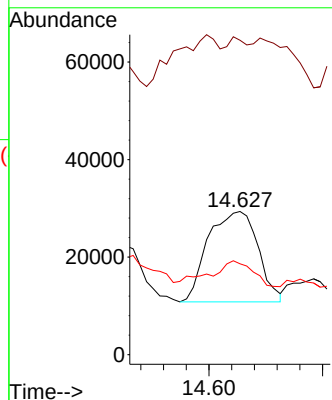
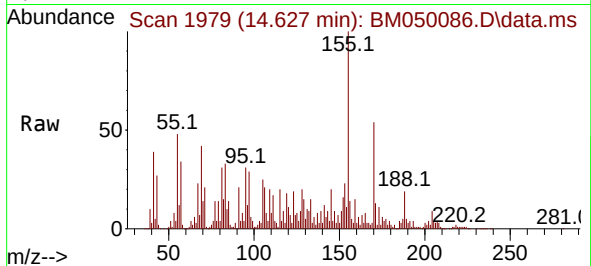




#56
4-Nitrophenol
Concen: 8.795 ng
RT: 14.627 min Scan# 1986
Delta R.T. -0.042 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

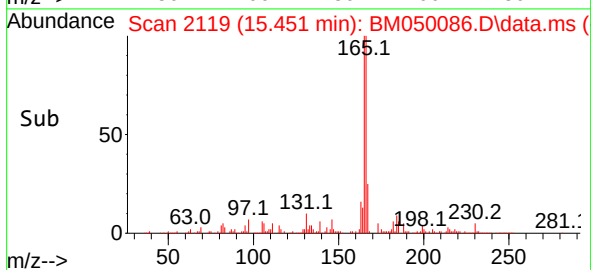
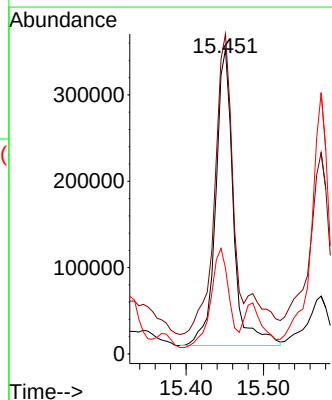
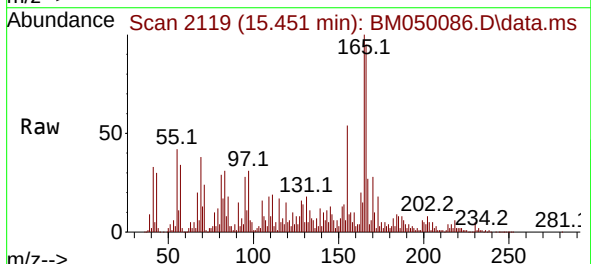
Instrument :
BNA_M
ClientSampleId :
SS-5

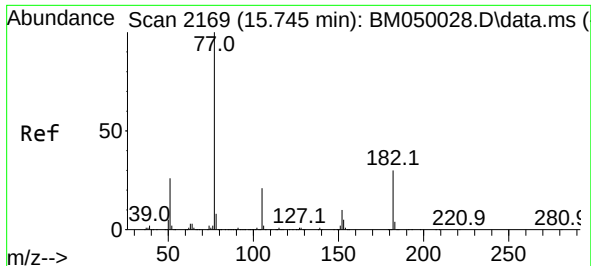
Tgt Ion:139 Resp: 56583
Ion Ratio Lower Upper
139 100
109 219.5 47.0 87.0#
65 63.5 64.3 104.3#



#58
Fluorene
Concen: 7.006 ng
RT: 15.451 min Scan# 2119
Delta R.T. -0.012 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:166 Resp: 546420
Ion Ratio Lower Upper
166 100
165 105.0 76.6 115.0
167 28.1 10.6 16.0#



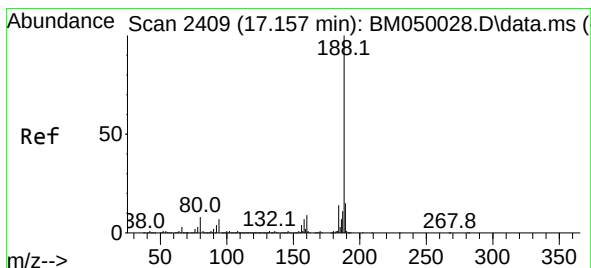
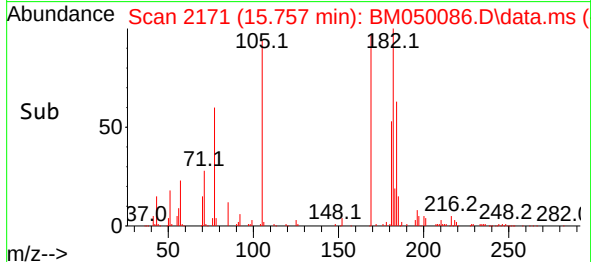
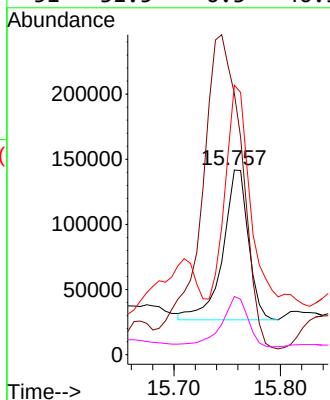
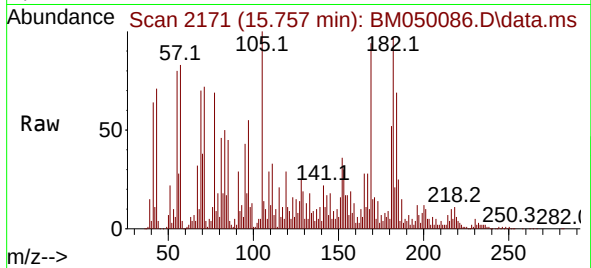


#63
 Azobenzene
 Concen: 3.124 ng
 RT: 15.757 min Scan# 2167
 Delta R.T. 0.012 min
 Lab File: BM050086.D
 Acq: 02 May 2025 15:19

Instrument :
 BNA_M
 ClientSampleId :
 SS-5

Tgt Ion: 77 Resp: 192167

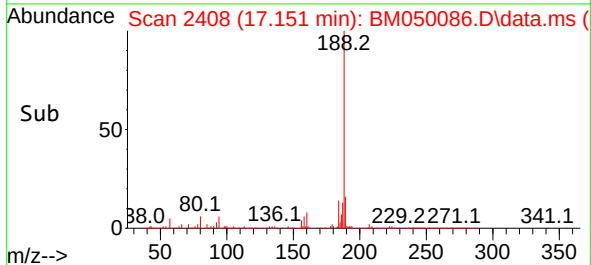
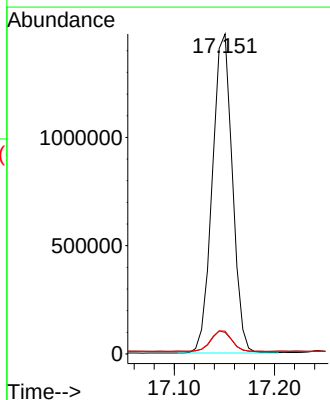
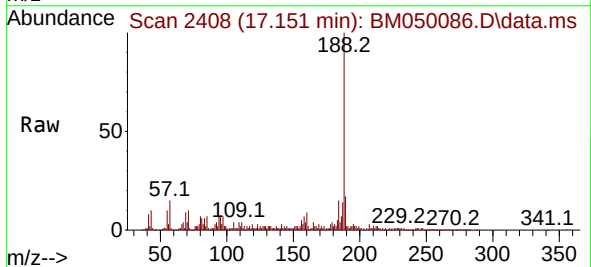
Ion	Ratio	Lower	Upper
77	100		
182	141.4	10.5	50.5#
105	145.9	1.1	41.1#
51	31.5	6.3	46.3

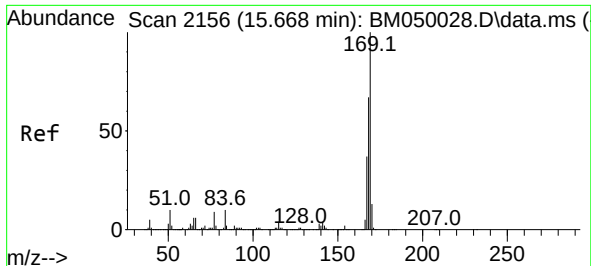


#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.151 min Scan# 2408
 Delta R.T. -0.006 min
 Lab File: BM050086.D
 Acq: 02 May 2025 15:19

Tgt Ion: 188 Resp: 2046894

Ion	Ratio	Lower	Upper
188	100		
94	6.8	5.7	8.5
80	7.2	6.2	9.4

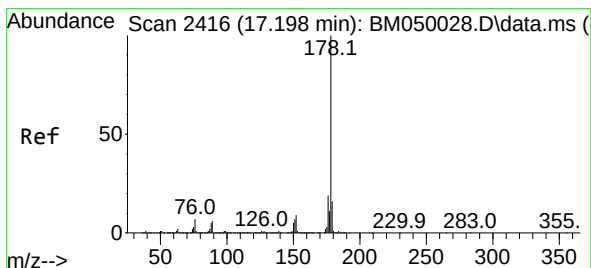
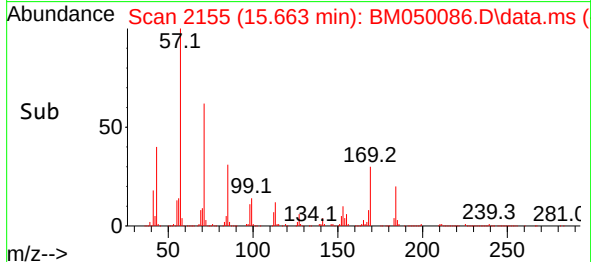
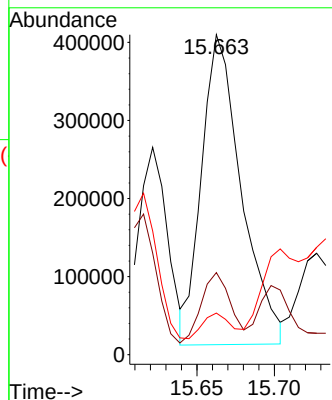
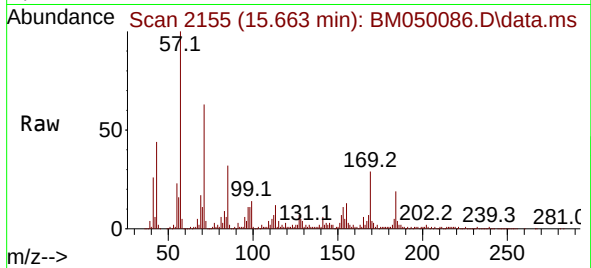




#66
n-Nitrosodiphenylamine
Concen: 11.272 ng
RT: 15.663 min Scan# 2156
Delta R.T. -0.006 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

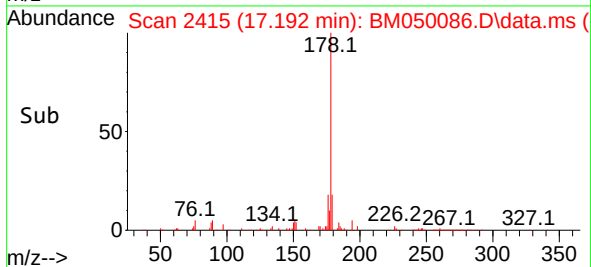
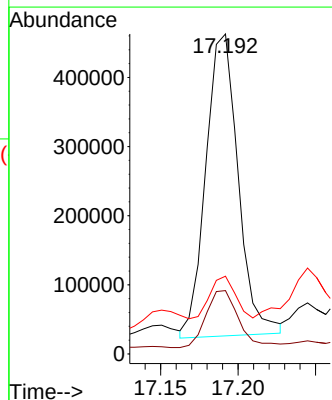
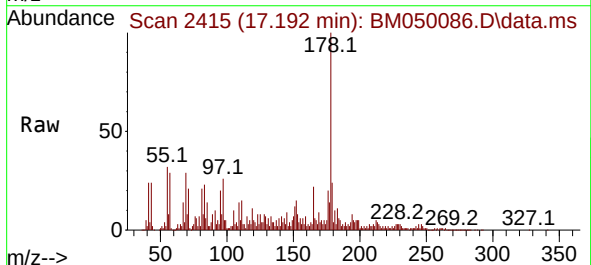
Instrument :
BNA_M
ClientSampleId :
SS-5

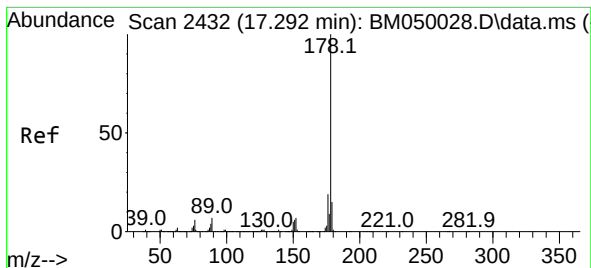
Tgt Ion:169 Resp: 708485
Ion Ratio Lower Upper
169 100
168 25.6 53.4 80.2#
167 13.0 29.4 44.0#



#71
Phenanthrene
Concen: 5.505 ng
RT: 17.192 min Scan# 2415
Delta R.T. -0.006 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:178 Resp: 635549
Ion Ratio Lower Upper
178 100
176 19.8 15.3 22.9
179 24.3 12.4 18.6#





#72

Anthracene

Concen: 2.478 ng

RT: 17.280 min Scan# 2432

Delta R.T. -0.012 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5

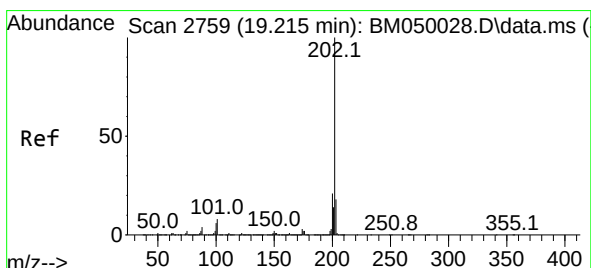
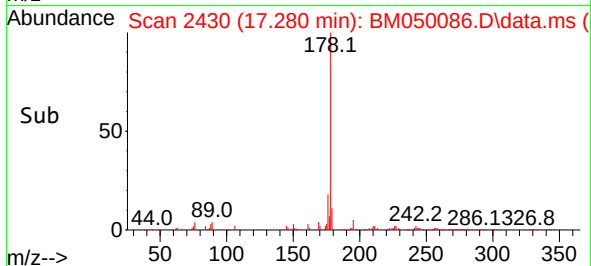
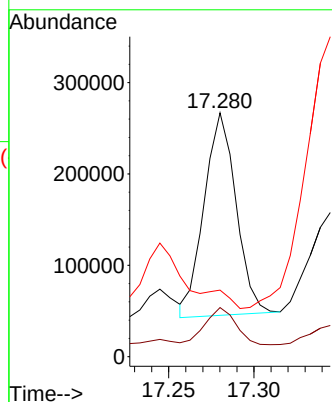
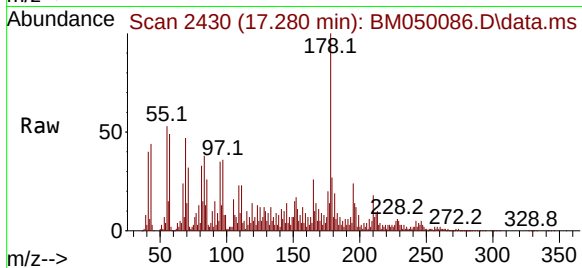
Tgt Ion:178 Resp: 289565

Ion Ratio Lower Upper

178 100

176 20.2 15.0 22.4

179 27.3 12.2 18.4#



#75

Fluoranthene

Concen: 8.509 ng

RT: 19.209 min Scan# 2758

Delta R.T. -0.006 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

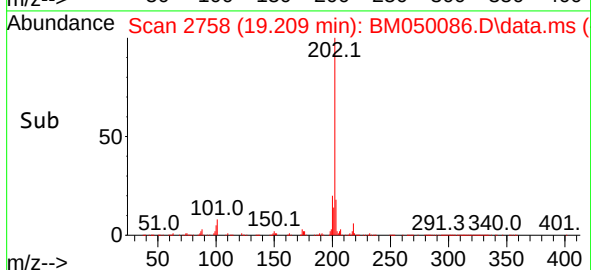
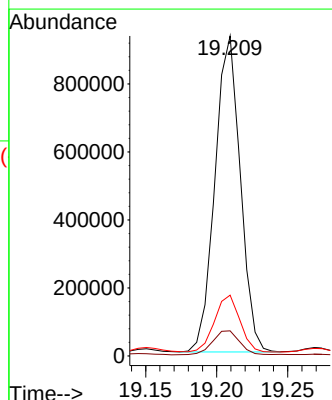
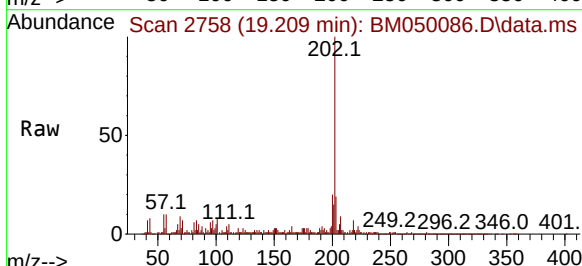
Tgt Ion:202 Resp: 1153331

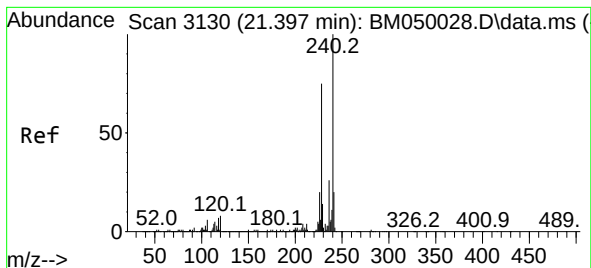
Ion Ratio Lower Upper

202 100

101 7.9 0.0 28.0

203 19.0 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: BM050086.D

Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5

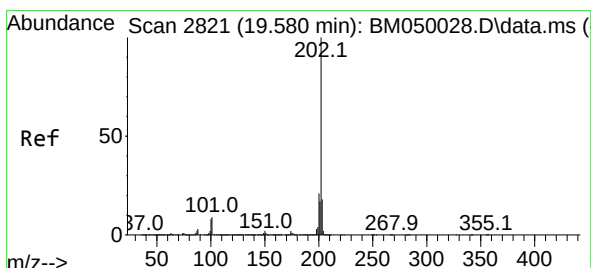
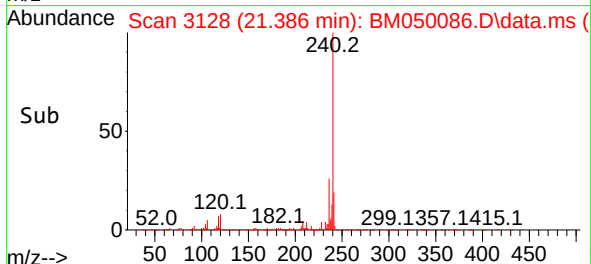
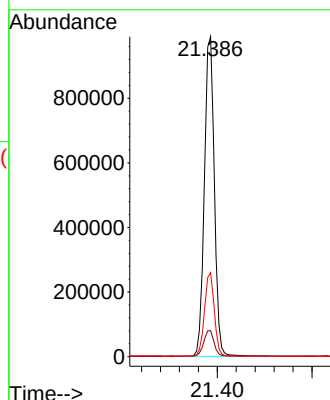
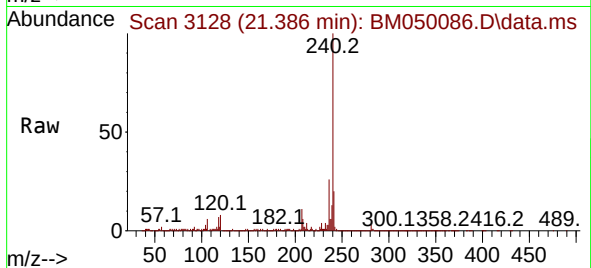
Tgt Ion:240 Resp: 1456580

Ion Ratio Lower Upper

240 100

120 8.1 6.5 9.7

236 26.3 20.9 31.3



#78

Pyrene

Concen: 11.936 ng

RT: 19.568 min Scan# 2819

Delta R.T. -0.012 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

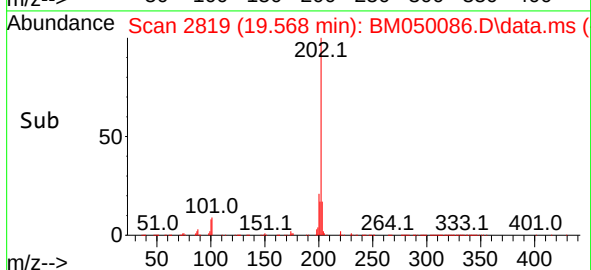
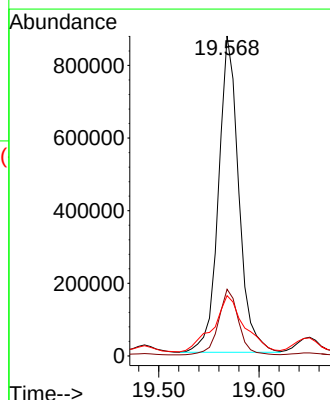
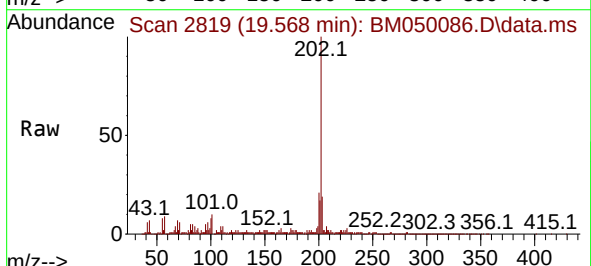
Tgt Ion:202 Resp: 1220908

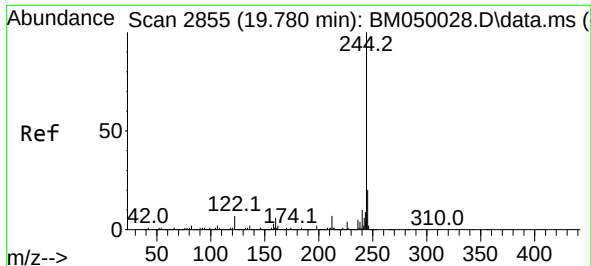
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 18.9 14.1 21.1

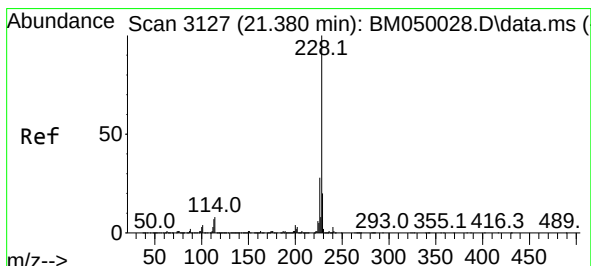
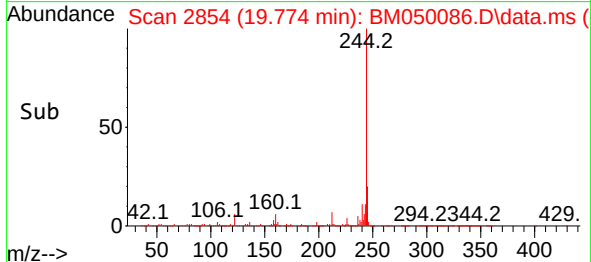
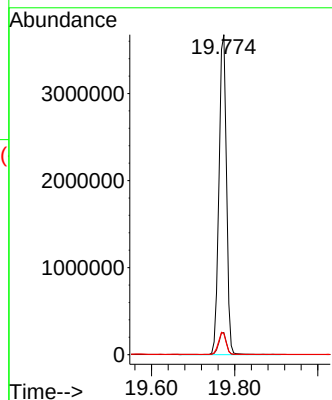
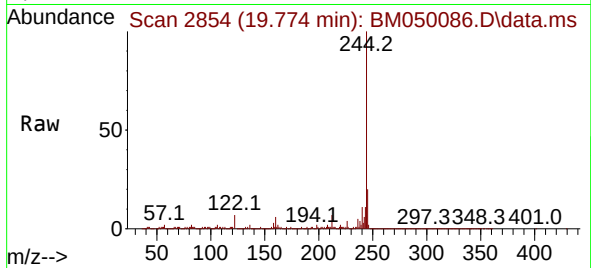




#79
 Terphenyl-d14
 Concen: 46.628 ng
 RT: 19.774 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM050086.D
 Acq: 02 May 2025 15:19

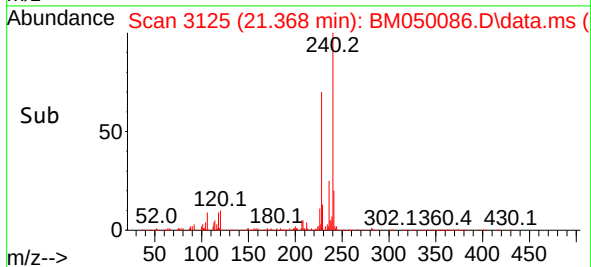
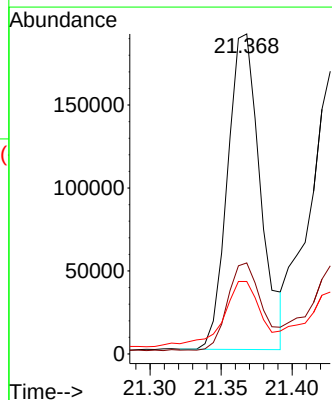
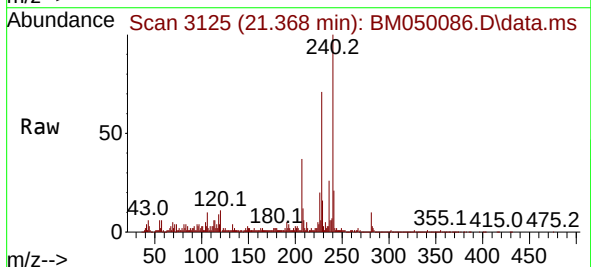
Instrument :
 BNA_M
 ClientSampleId :
 SS-5

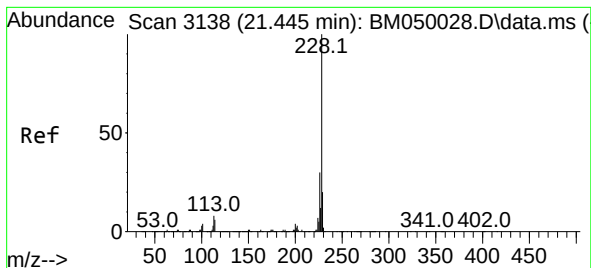
Tgt Ion:244 Resp: 4589824
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 6.5 5.6 8.4



#81
 Benzo(a)anthracene
 Concen: 3.050 ng
 RT: 21.368 min Scan# 3125
 Delta R.T. -0.012 min
 Lab File: BM050086.D
 Acq: 02 May 2025 15:19

Tgt Ion:228 Resp: 305972
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.1 33.1
 229 22.7 15.7 23.5





#83

Chrysene

Concen: 3.221 ng

RT: 21.427 min Scan# 31

Delta R.T. -0.018 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5

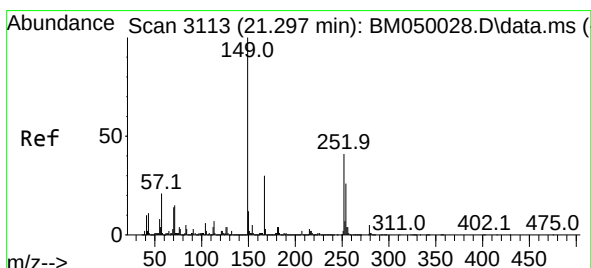
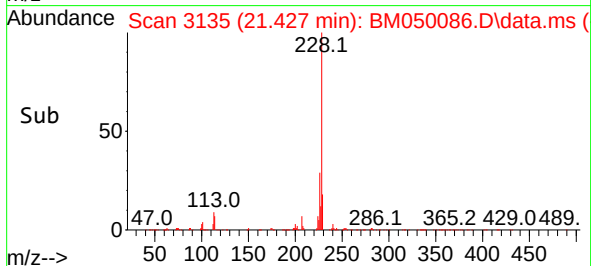
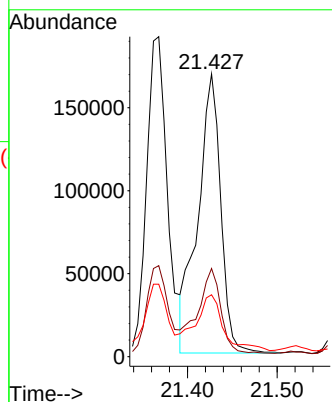
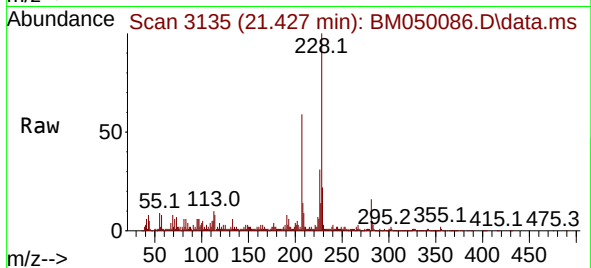
Tgt Ion:228 Resp: 298985

Ion Ratio Lower Upper

228 100

226 31.2 24.2 36.2

229 21.9 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 5.219 ng

RT: 21.286 min Scan# 3111

Delta R.T. -0.012 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

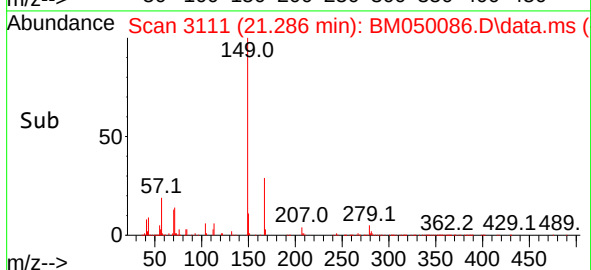
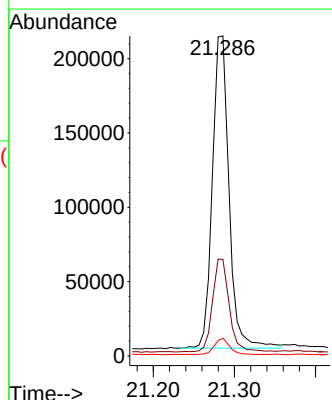
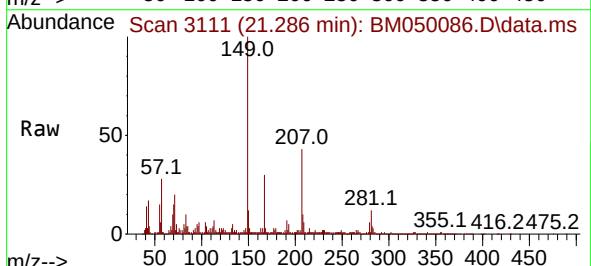
Tgt Ion:149 Resp: 298623

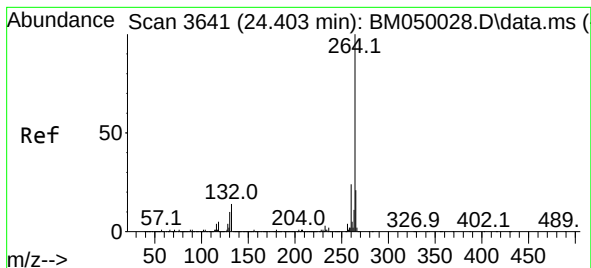
Ion Ratio Lower Upper

149 100

167 30.2 24.1 36.1

279 5.5 3.9 5.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.374 min Scan# 3

Delta R.T. -0.029 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5

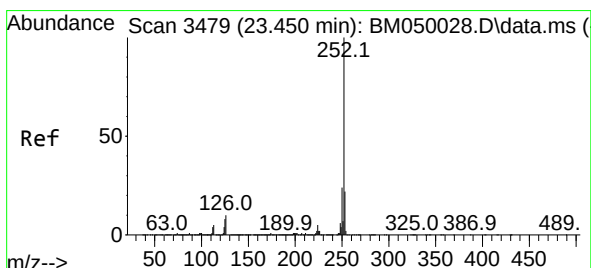
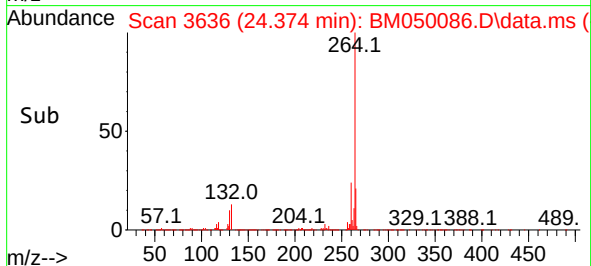
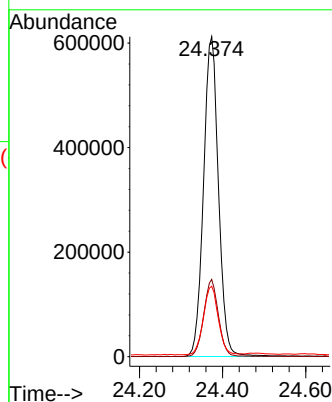
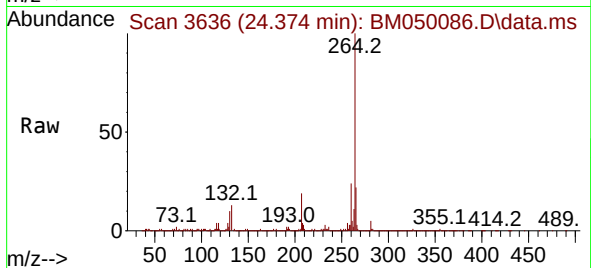
Tgt Ion:264 Resp: 1531120

Ion Ratio Lower Upper

264 100

260 24.1 18.8 28.2

265 22.0 17.0 25.4



#88

Benzo(b)fluoranthene

Concen: 4.025 ng

RT: 23.433 min Scan# 3476

Delta R.T. -0.018 min

Lab File: BM050086.D

Acq: 02 May 2025 15:19

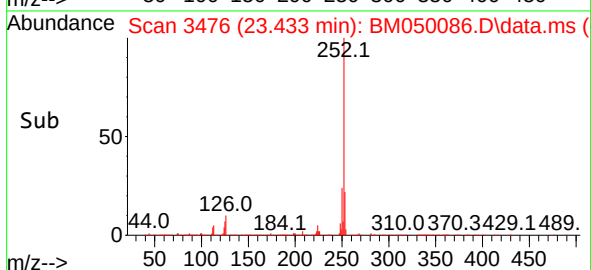
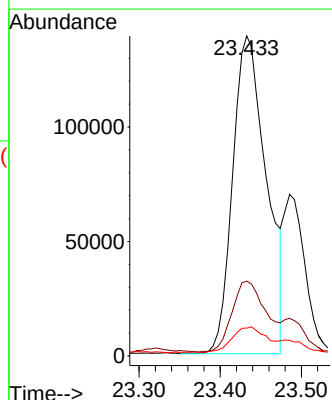
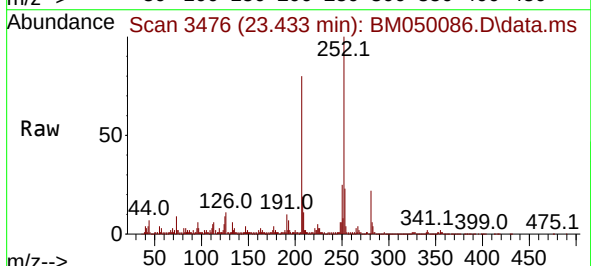
Tgt Ion:252 Resp: 400750

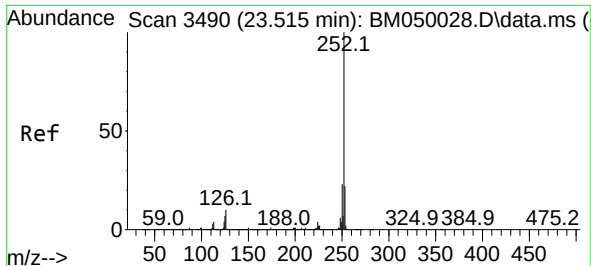
Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 8.7 6.1 9.1

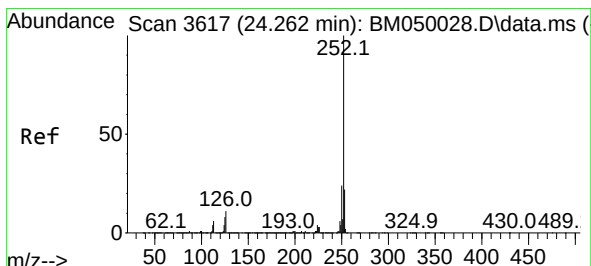
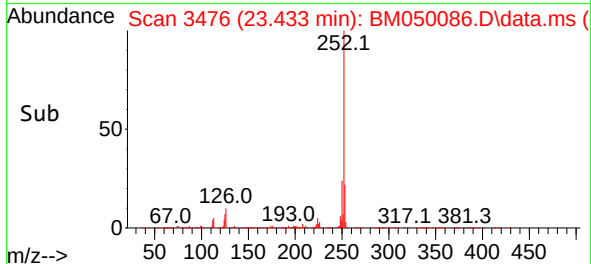
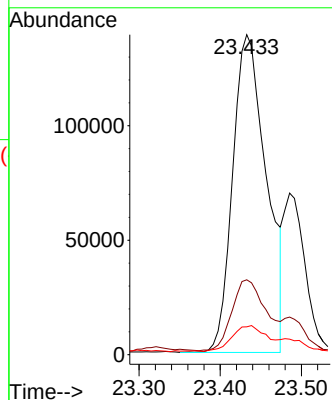
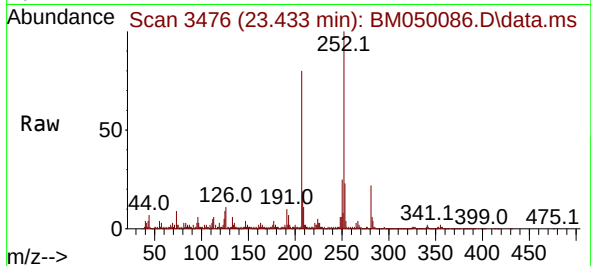




#89
Benzo(k)fluoranthene
Concen: 3.979 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.082 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

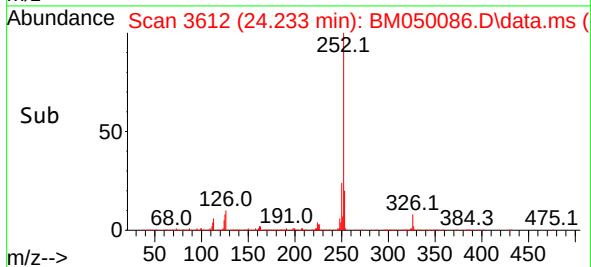
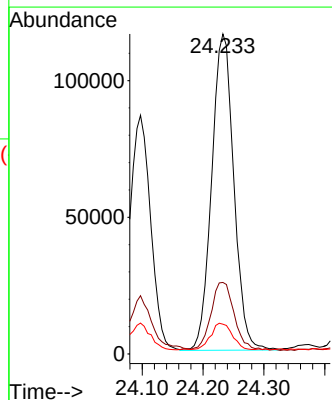
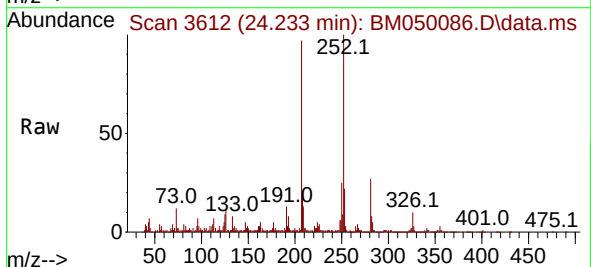
Instrument :
BNA_M
ClientSampleId :
SS-5

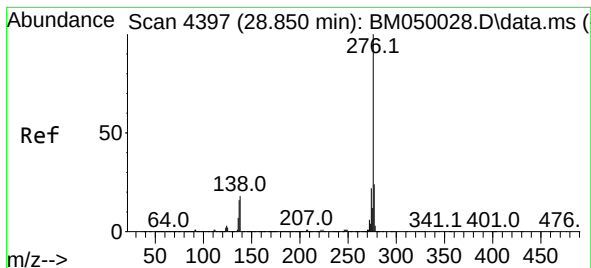
Tgt Ion:252 Resp: 400750
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.2
125 8.7 5.8 8.8



#90
Benzo(a)pyrene
Concen: 3.131 ng
RT: 24.233 min Scan# 3612
Delta R.T. -0.029 min
Lab File: BM050086.D
Acq: 02 May 2025 15:19

Tgt Ion:252 Resp: 291970
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.0
125 9.3 6.6 9.8





#92

Benzo(g,h,i)perylene

Concen: 2.232 ng

RT: 28.803 min Scan# 41

Delta R.T. -0.047 min

Lab File: BM050086.D

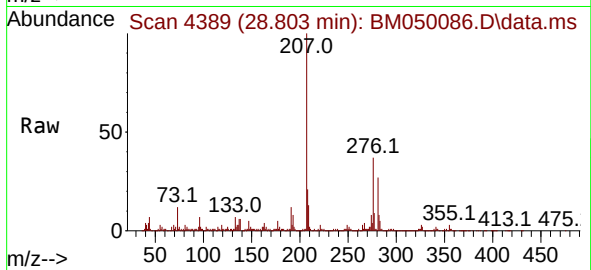
Acq: 02 May 2025 15:19

Instrument :

BNA_M

ClientSampleId :

SS-5



Tgt Ion:276 Resp: 198766

Ion Ratio Lower Upper

276 100

277 25.0 19.1 28.7

138 17.6 14.3 21.5

