

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
 Data File : BM049867.D
 Acq On : 09 Apr 2025 14:26
 Operator : RC/JU
 Sample : Q1742-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TR-06-040725

Quant Time: Apr 09 15:01:11 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)

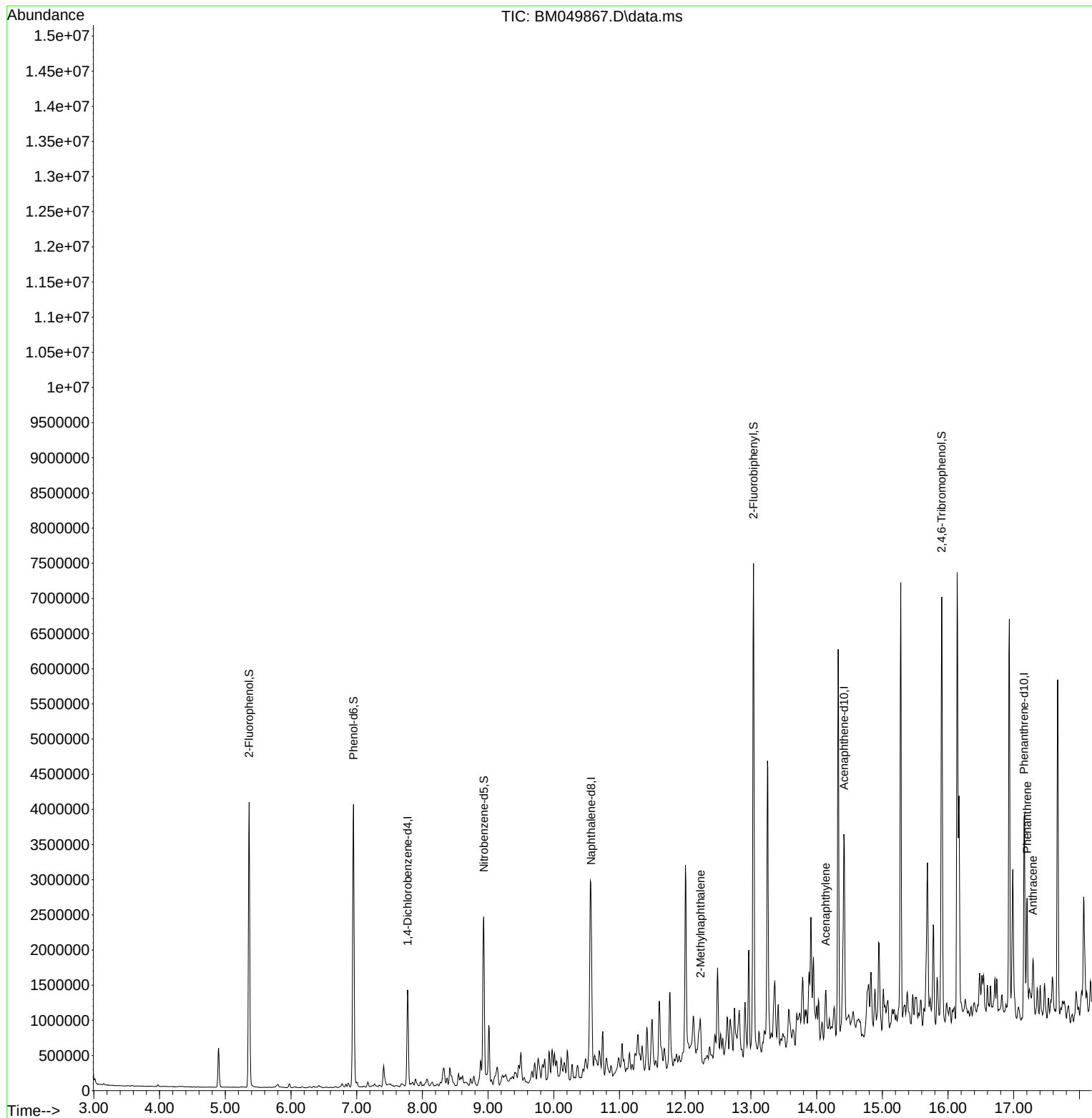
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	375187	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1350767	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	874026	20.000	ng	0.00
64) Phenanthrene-d10	17.157	188	1723726	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1742922	20.000	ng	0.00
86) Perylene-d12	24.397	264	1859477	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	1820043	82.374	ng	0.00
7) Phenol-d6	6.951	99	2348395	85.427	ng	0.00
23) Nitrobenzene-d5	8.934	82	1373907	56.639	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	1119704	88.075	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	3647435	56.588	ng	0.00
79) Terphenyl-d14	19.786	244	5213913	56.062	ng	0.00
Target Compounds						
						Qvalue
37) 2-Methylnaphthalene	12.233	142	121128	2.477	ng	# 96
49) Acenaphthylene	14.139	152	522110	7.019	ng	97
71) Phenanthrene	17.204	178	1002906	10.613	ng	99
72) Anthracene	17.292	178	541447	5.814	ng	98
75) Fluoranthene	19.221	202	2887322	24.849	ng	99
78) Pyrene	19.580	202	2857374	23.788	ng	99
81) Benzo(a)anthracene	21.380	228	1852604	15.994	ng	95
83) Chrysene	21.439	228	1821392	16.539	ng	98
87) Indeno(1,2,3-cd)pyrene	27.785	276	1469131	10.599	ng	97
88) Benzo(b)fluoranthene	23.450	252	2892739	24.358	ng	98
89) Benzo(k)fluoranthene	23.509	252	1204079m	10.463	ng	
90) Benzo(a)pyrene	24.256	252	1969921	18.877	ng	99
91) Dibenzo(a,h)anthracene	27.826	278	370341	3.244	ng	# 86
92) Benzo(g,h,i)perylene	28.838	276	1487989	12.754	ng	97

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

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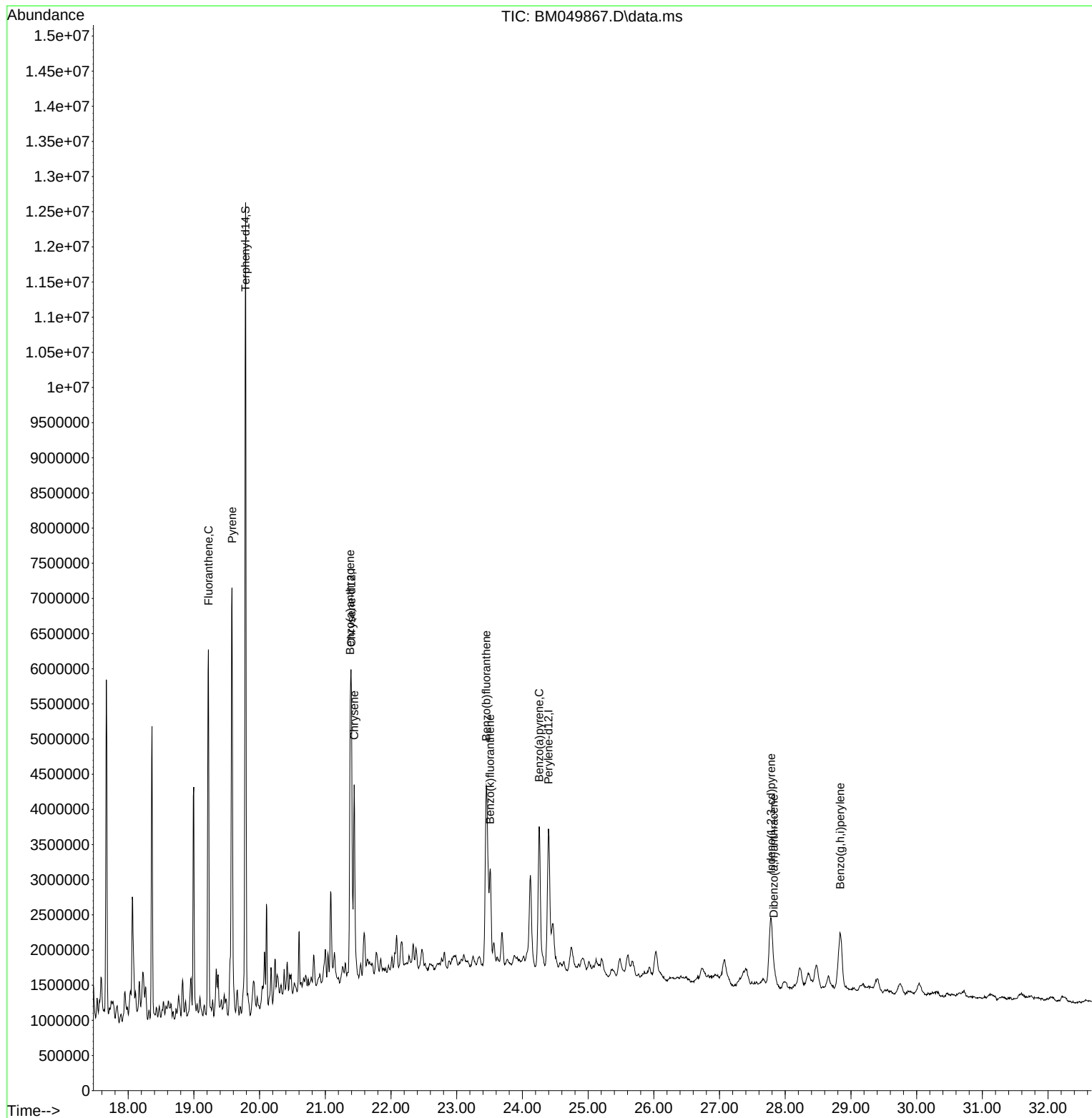
Quant Time: Apr 09 15:01:11 2025
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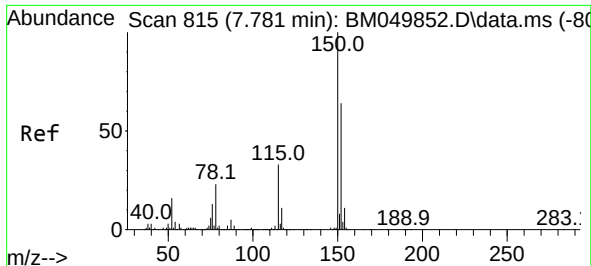


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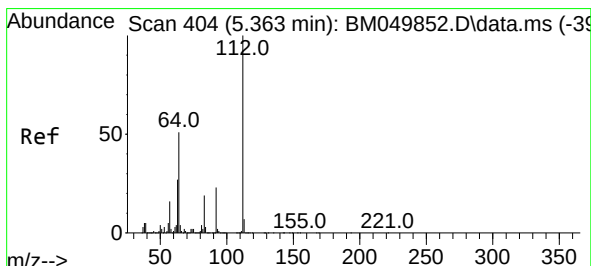
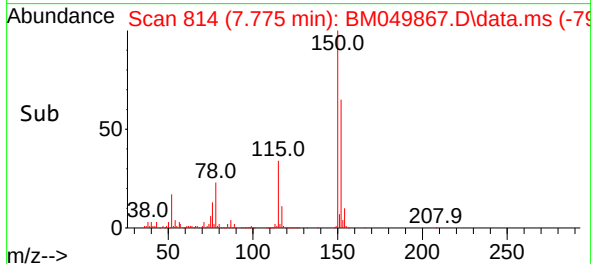
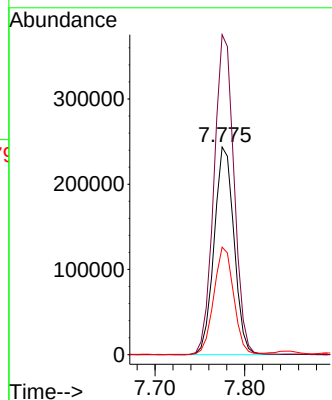
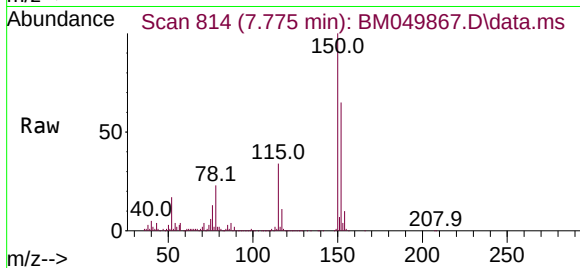




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.775 min Scan# 815
Delta R.T. -0.006 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

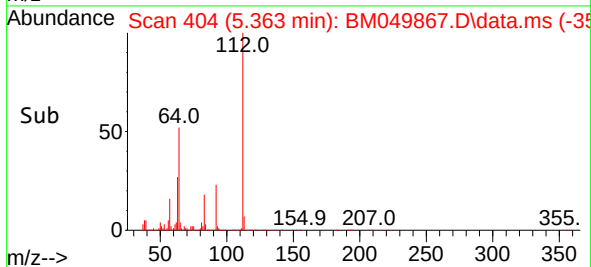
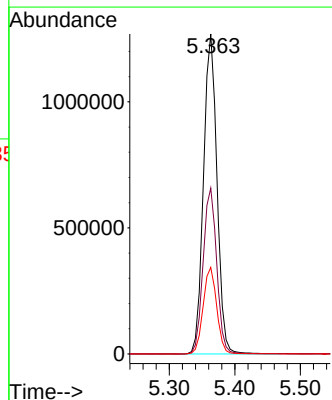
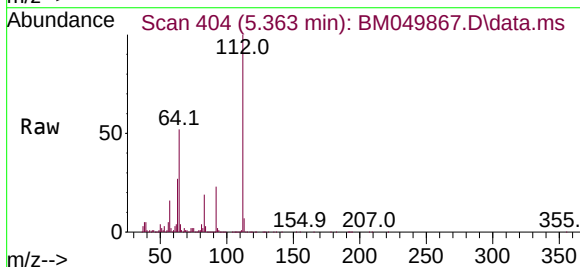
Instrument :
BNA_M
ClientSampleId :
TR-06-040725

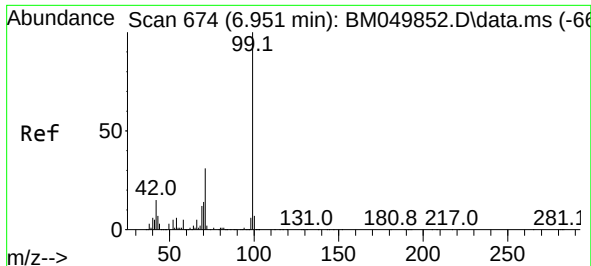
Tgt Ion:152 Resp: 375187
Ion Ratio Lower Upper
152 100
150 154.1 124.3 186.5
115 51.8 41.1 61.7



#5
2-Fluorophenol
Concen: 82.374 ng
RT: 5.363 min Scan# 404
Delta R.T. 0.000 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

Tgt Ion:112 Resp: 1820043
Ion Ratio Lower Upper
112 100
64 51.9 41.0 61.6
63 27.0 21.5 32.3

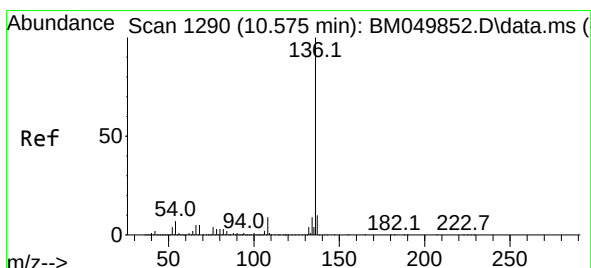
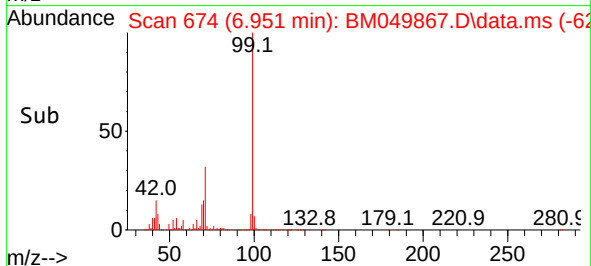
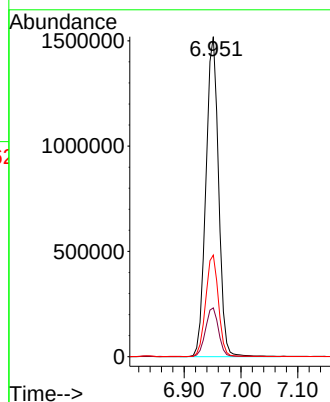
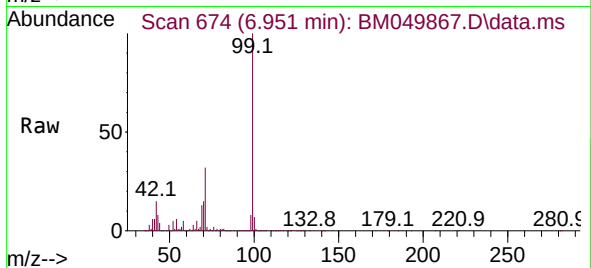




#7
Phenol-d6
Concen: 85.427 ng
RT: 6.951 min Scan# 61
Delta R.T. 0.000 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

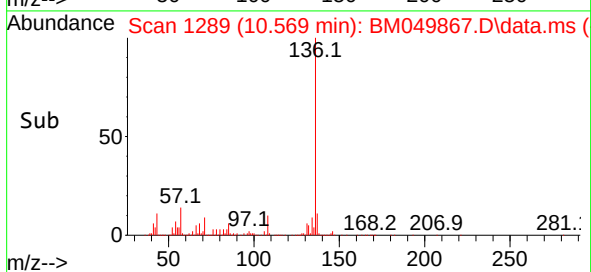
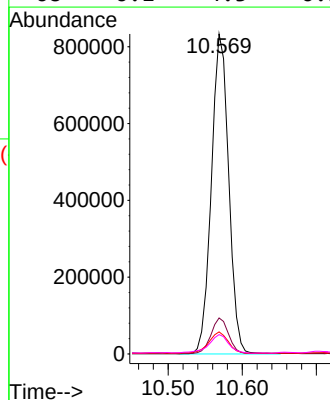
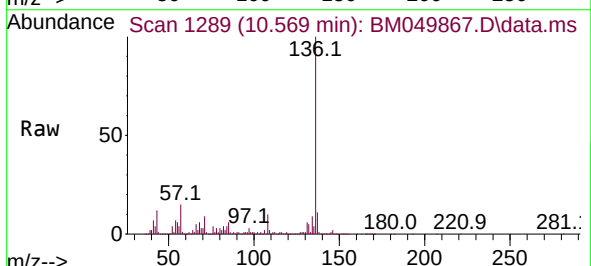
Instrument :
BNA_M
ClientSampleId :
TR-06-040725

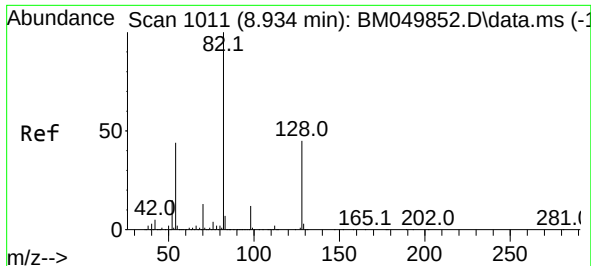
Tgt Ion: 99 Resp: 2348395
Ion Ratio Lower Upper
99 100
42 15.3 12.1 18.1
71 31.8 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.006 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

Tgt Ion:136 Resp: 1350767
Ion Ratio Lower Upper
136 100
137 11.3 8.4 12.6
54 6.9 5.3 7.9
68 6.1 4.3 6.5

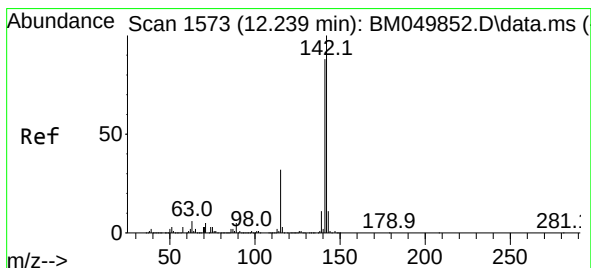
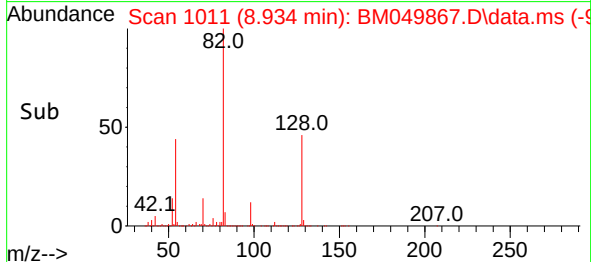
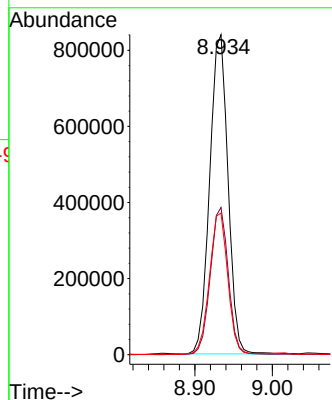
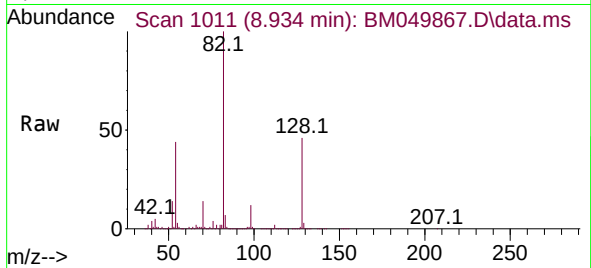




#23
Nitrobenzene-d5
Concen: 56.639 ng
RT: 8.934 min Scan# 1011
Delta R.T. 0.000 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

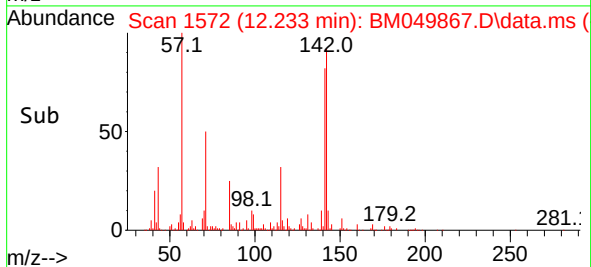
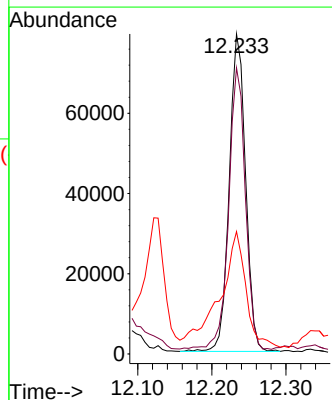
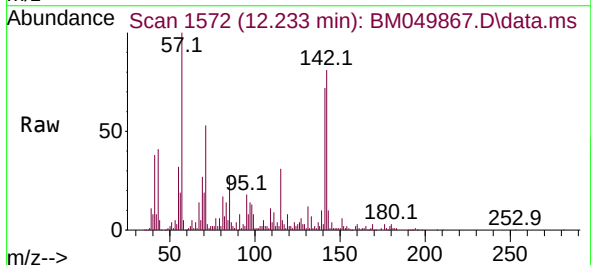
Instrument :
BNA_M
ClientSampleId :
TR-06-040725

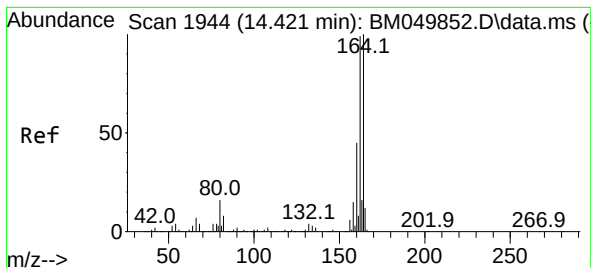
Tgt Ion: 82 Resp: 1373907
Ion Ratio Lower Upper
82 100
128 46.0 36.2 54.2
54 44.3 35.0 52.6



#37
2-Methylnaphthalene
Concen: 2.477 ng
RT: 12.233 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

Tgt Ion:142 Resp: 121128
Ion Ratio Lower Upper
142 100
141 89.4 70.2 105.2
115 38.3 25.4 38.2#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.416 min Scan# 1943

Delta R.T. -0.006 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

Instrument :

BNA_M

ClientSampleId :

TR-06-040725

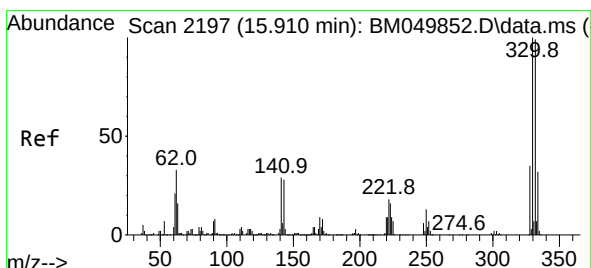
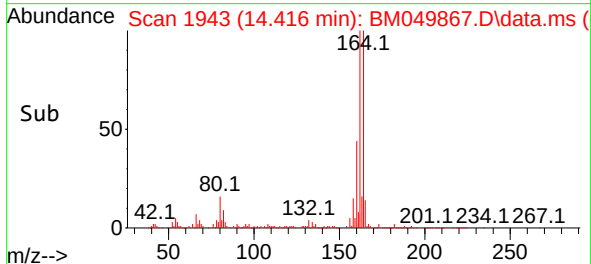
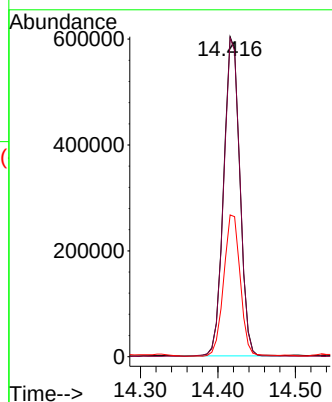
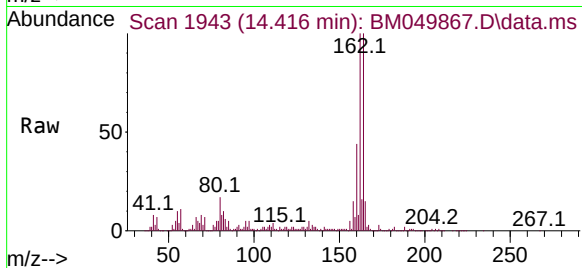
Tgt Ion:164 Resp: 874026

Ion Ratio Lower Upper

164 100

162 99.6 79.4 119.0

160 44.3 36.2 54.2



#42

2,4,6-Tribromophenol

Concen: 88.075 ng

RT: 15.904 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

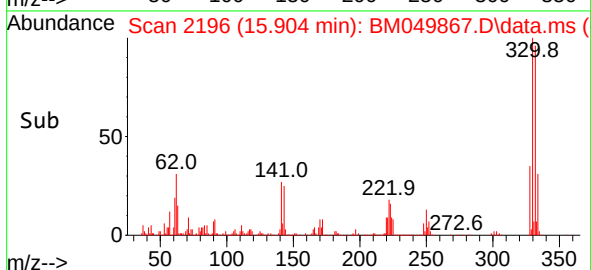
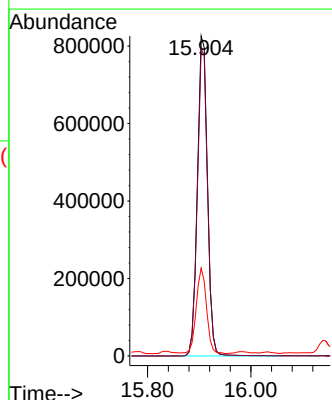
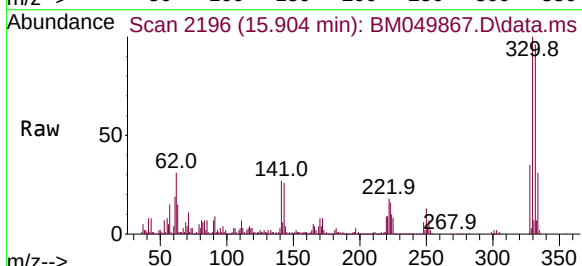
Tgt Ion:330 Resp: 1119704

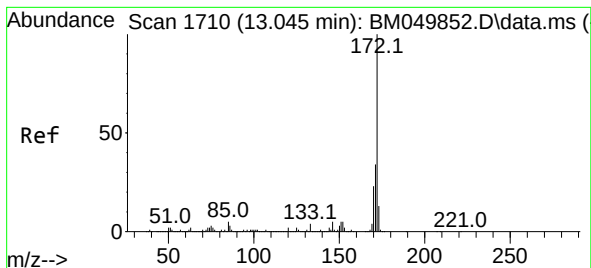
Ion Ratio Lower Upper

330 100

332 96.7 78.0 117.0

141 27.1 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 56.588 ng

RT: 13.039 min Scan# 1709

Delta R.T. -0.006 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

Instrument :

BNA_M

ClientSampleId :

TR-06-040725

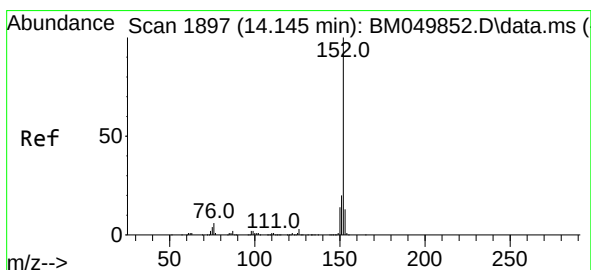
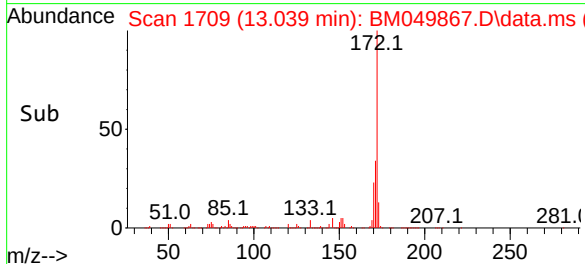
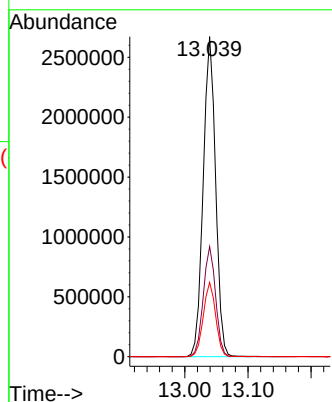
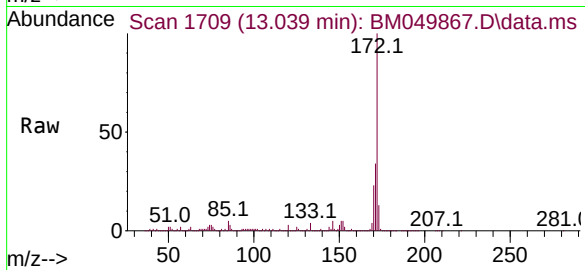
Tgt Ion:172 Resp: 3647435

Ion Ratio Lower Upper

172 100

171 34.4 27.4 41.2

170 23.2 18.6 28.0



#49

Acenaphthylene

Concen: 7.019 ng

RT: 14.139 min Scan# 1896

Delta R.T. -0.006 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

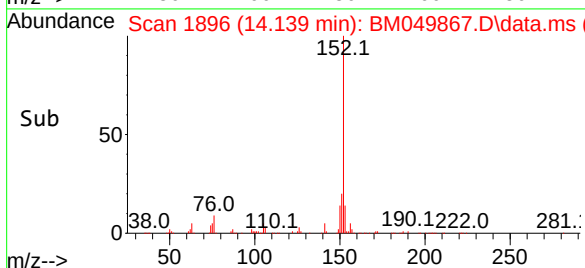
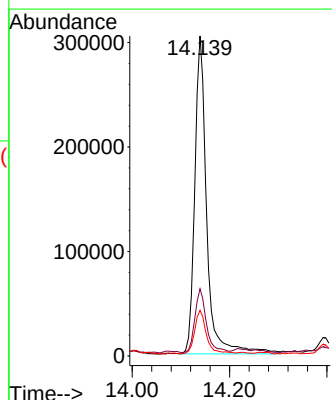
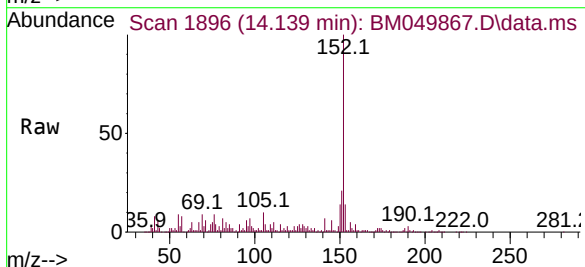
Tgt Ion:152 Resp: 522110

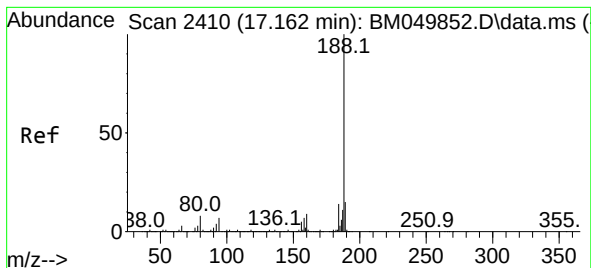
Ion Ratio Lower Upper

152 100

151 21.0 15.7 23.5

153 14.2 10.4 15.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.157 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

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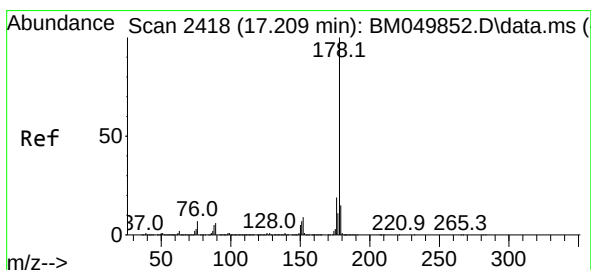
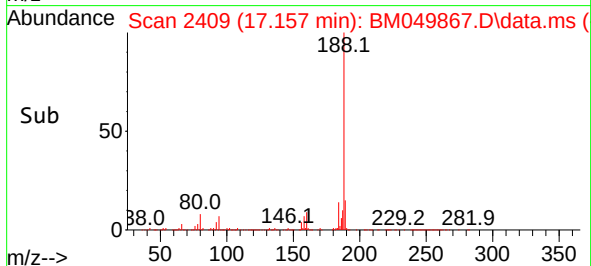
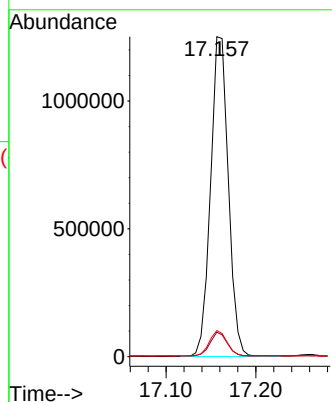
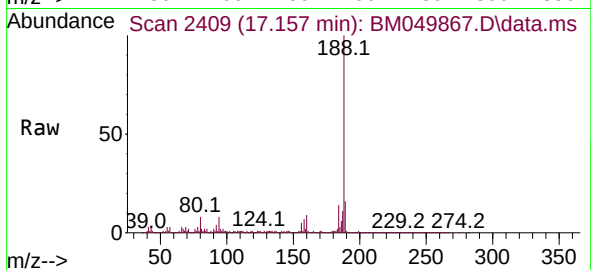
Tgt Ion:188 Resp: 1723726

Ion Ratio Lower Upper

188 100

94 7.6 5.8 8.6

80 8.1 6.4 9.6



#71

Phenanthrene

Concen: 10.613 ng

RT: 17.204 min Scan# 2417

Delta R.T. -0.006 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

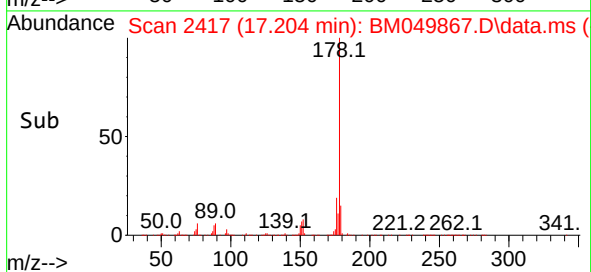
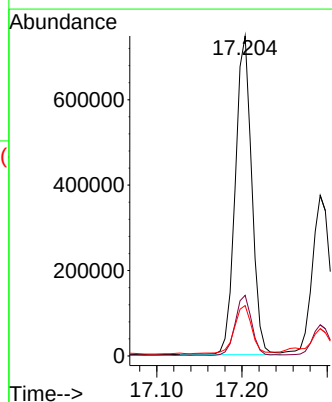
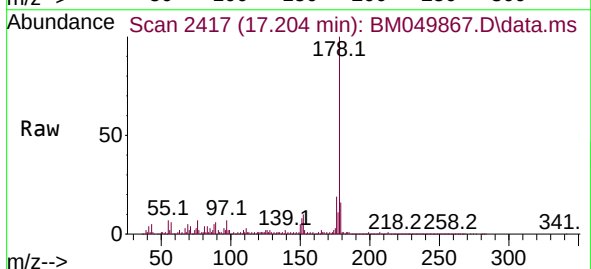
Tgt Ion:178 Resp: 1002906

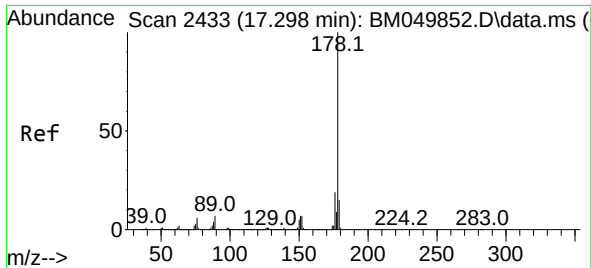
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.8 12.3 18.5

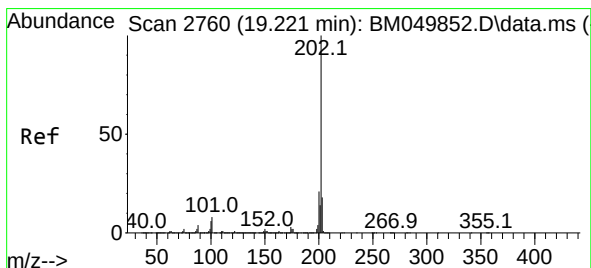
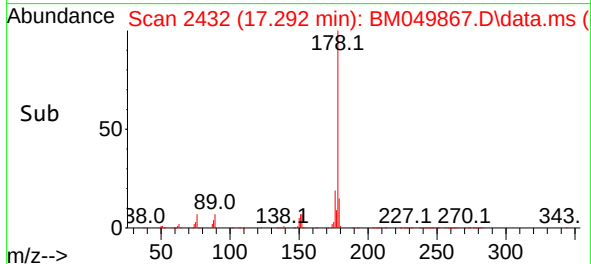
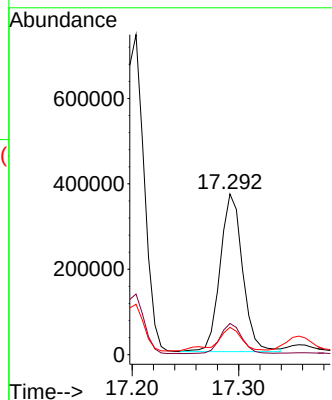
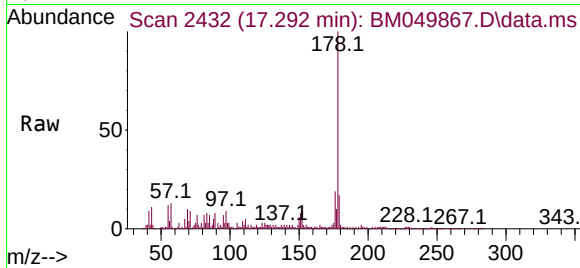




#72
 Anthracene
 Concen: 5.814 ng
 RT: 17.292 min Scan# 2433
 Delta R.T. -0.006 min
 Lab File: BM049867.D
 Acq: 09 Apr 2025 14:26

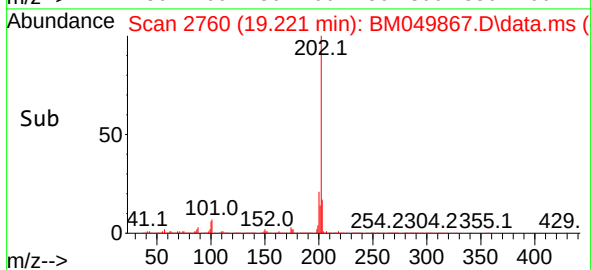
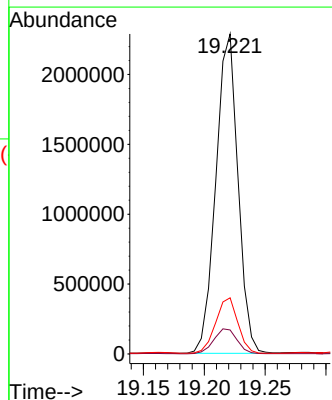
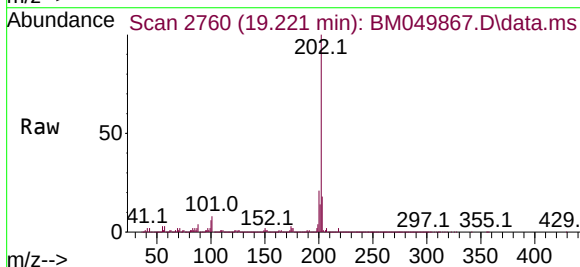
Instrument :
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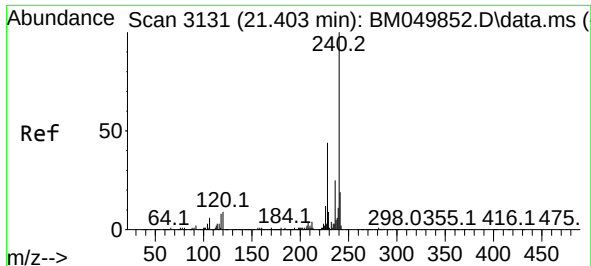
Tgt Ion:178 Resp: 541447
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.1 22.7
 179 17.0 12.4 18.6



#75
 Fluoranthene
 Concen: 24.849 ng
 RT: 19.221 min Scan# 2760
 Delta R.T. 0.000 min
 Lab File: BM049867.D
 Acq: 09 Apr 2025 14:26

Tgt Ion:202 Resp: 2887322
 Ion Ratio Lower Upper
 202 100
 101 7.5 0.0 28.4
 203 17.5 0.0 37.8

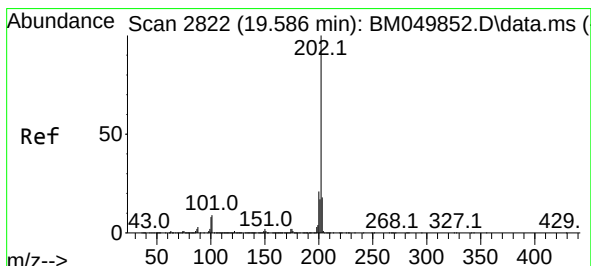
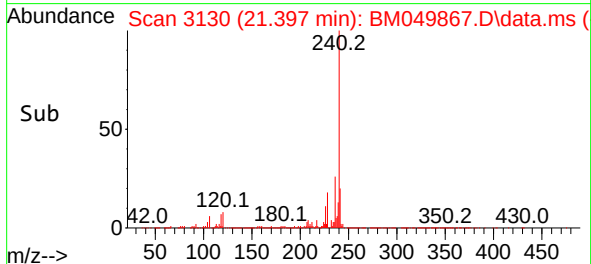
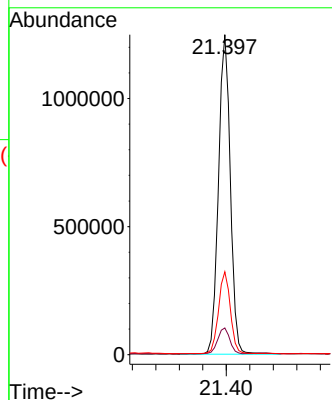
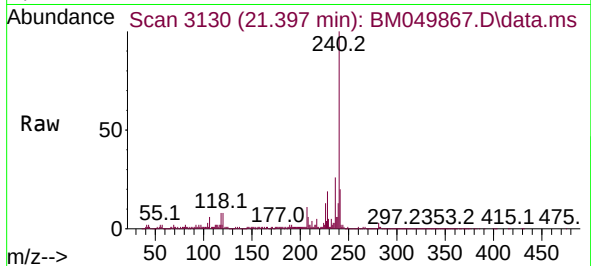




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.397 min Scan# 3131
Delta R.T. -0.006 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

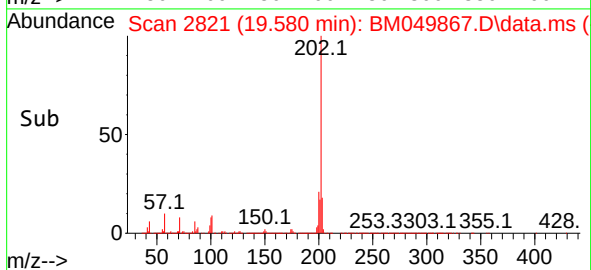
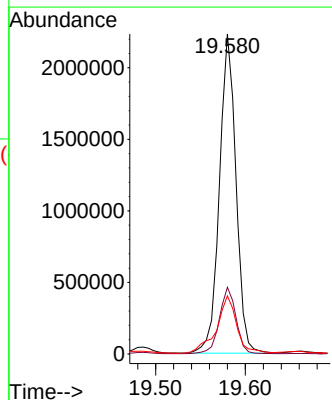
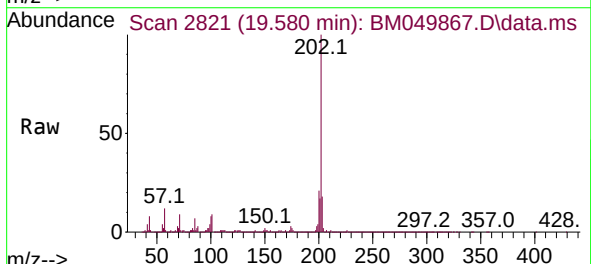
Instrument :
BNA_M
ClientSampleId :
TR-06-040725

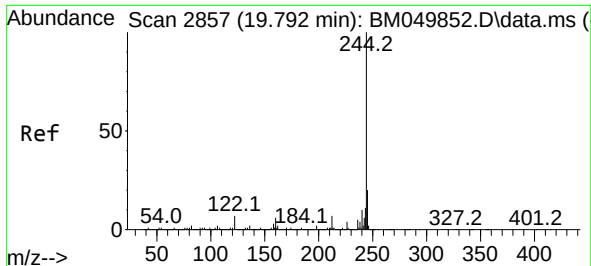
Tgt Ion:240 Resp: 1742922
Ion Ratio Lower Upper
240 100
120 8.4 6.9 10.3
236 25.9 20.4 30.6



#78
Pyrene
Concen: 23.788 ng
RT: 19.580 min Scan# 2821
Delta R.T. -0.006 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

Tgt Ion:202 Resp: 2857374
Ion Ratio Lower Upper
202 100
200 20.8 16.5 24.7
203 18.1 14.0 21.0

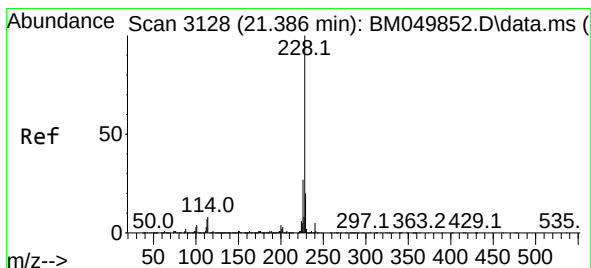
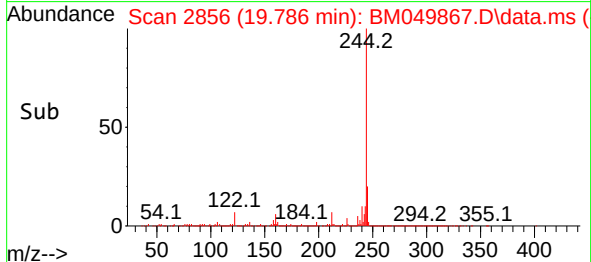
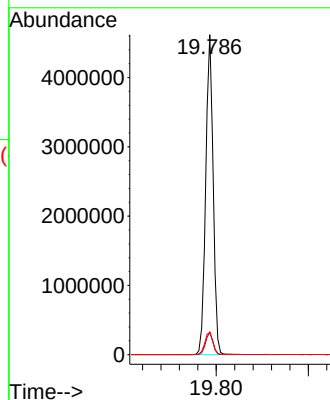
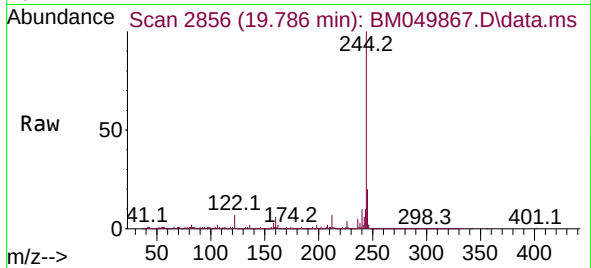




#79
 Terphenyl-d14
 Concen: 56.062 ng
 RT: 19.786 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM049867.D
 Acq: 09 Apr 2025 14:26

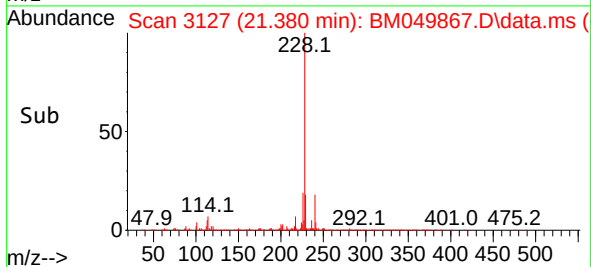
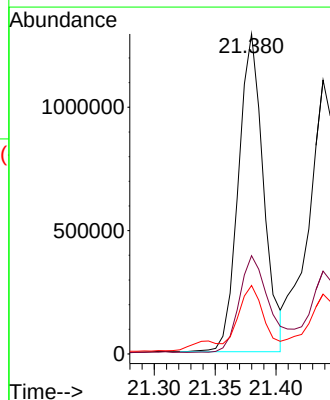
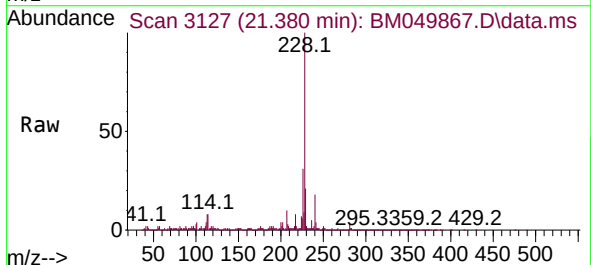
Instrument :
 BNA_M
 ClientSampleId :
 TR-06-040725

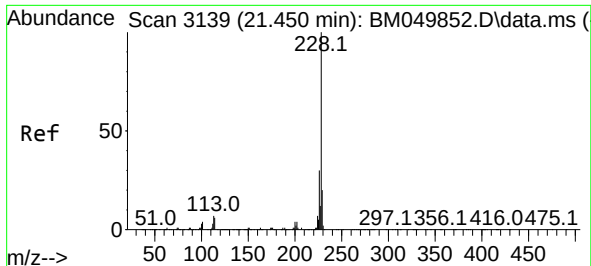
Tgt Ion:244 Resp: 5213913
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 7.0 5.4 8.0



#81
 Benzo(a)anthracene
 Concen: 15.994 ng
 RT: 21.380 min Scan# 3127
 Delta R.T. -0.006 min
 Lab File: BM049867.D
 Acq: 09 Apr 2025 14:26

Tgt Ion:228 Resp: 1852604
 Ion Ratio Lower Upper
 228 100
 226 30.7 21.8 32.8
 229 21.4 15.8 23.8

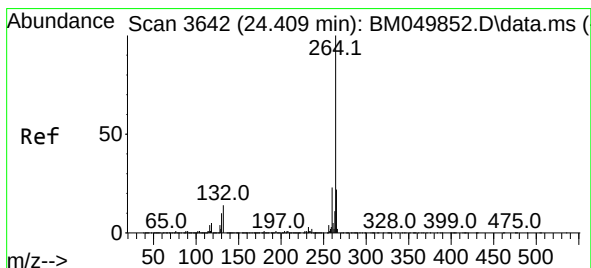
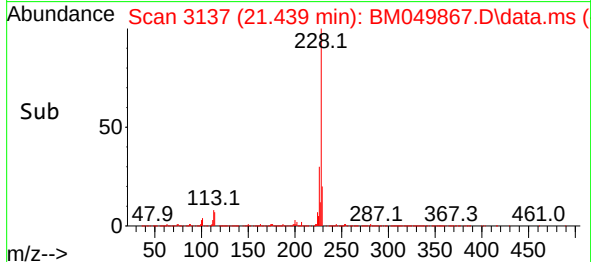
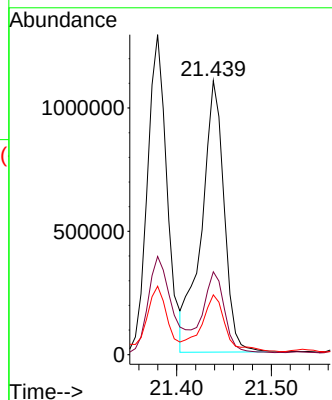
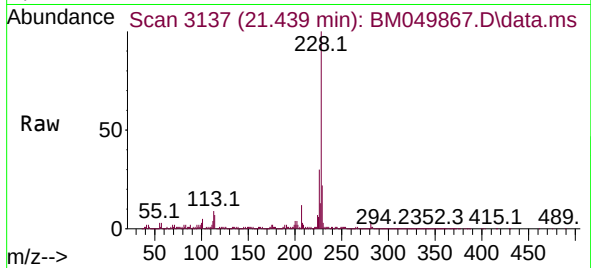




#83
Chrysene
Concen: 16.539 ng
RT: 21.439 min Scan# 31
Delta R.T. -0.012 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

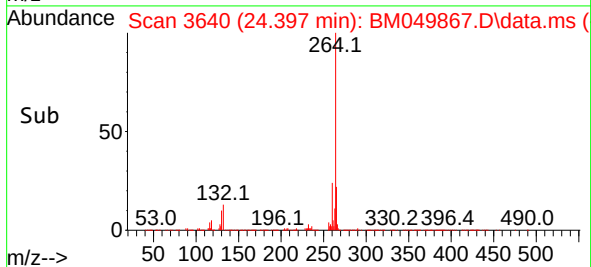
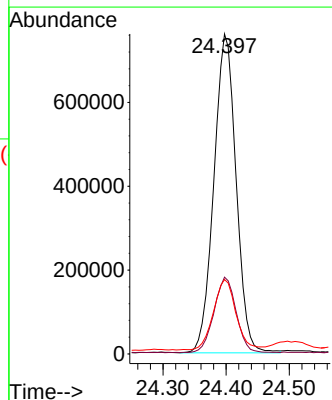
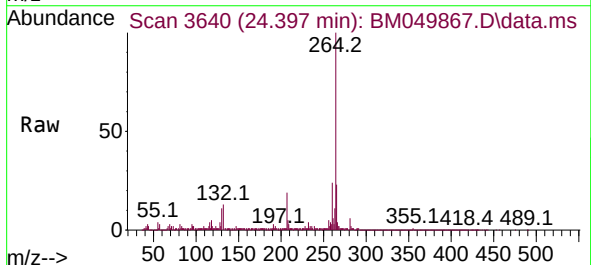
Instrument :
BNA_M
ClientSampleId :
TR-06-040725

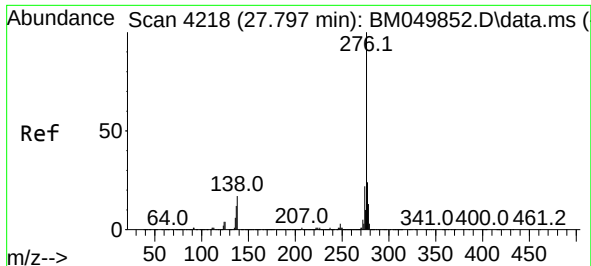
Tgt Ion:228 Resp: 1821392
Ion Ratio Lower Upper
228 100
226 30.3 24.1 36.1
229 21.9 15.8 23.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.397 min Scan# 3640
Delta R.T. -0.012 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

Tgt Ion:264 Resp: 1859477
Ion Ratio Lower Upper
264 100
260 24.0 18.6 28.0
265 23.2 17.8 26.8

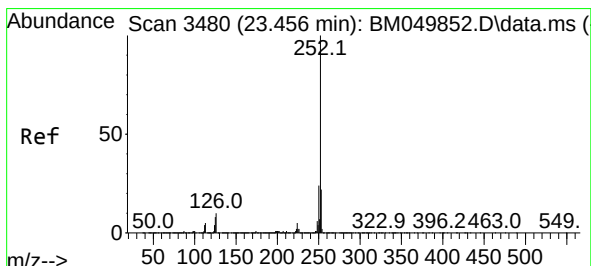
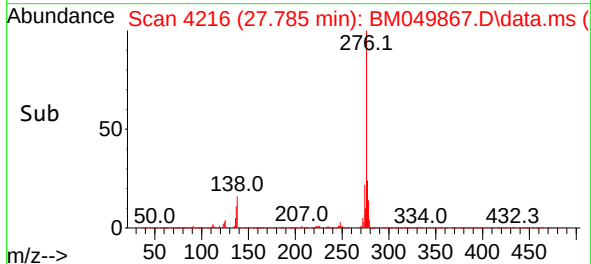
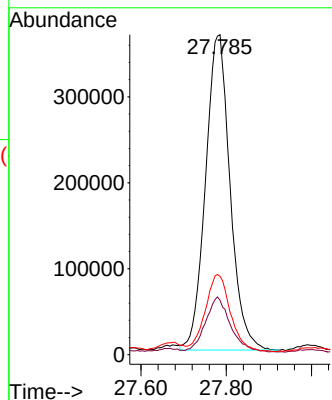
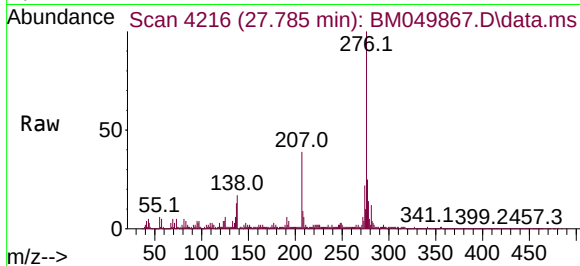




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 10.599 ng
 RT: 27.785 min Scan# 41
 Delta R.T. -0.012 min
 Lab File: BM049867.D
 Acq: 09 Apr 2025 14:26

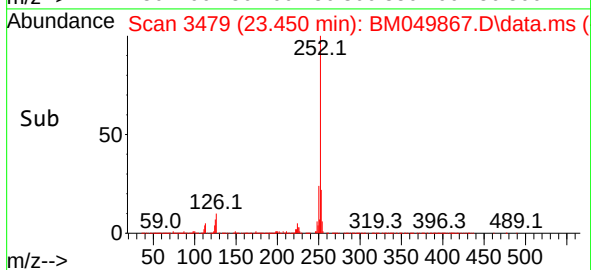
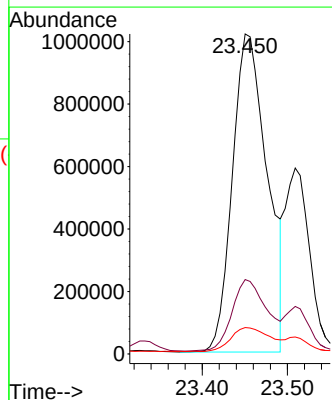
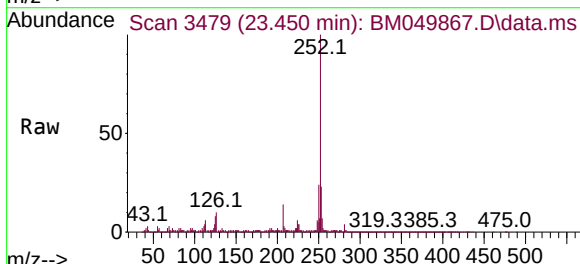
Instrument :
 BNA_M
 ClientSampleId :
 TR-06-040725

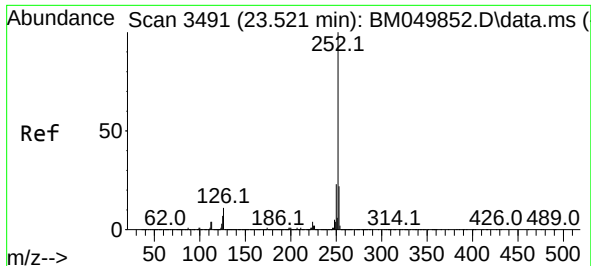
Tgt Ion:276 Resp: 1469131
 Ion Ratio Lower Upper
 276 100
 138 17.9 16.8 25.2
 277 25.0 20.1 30.1



#88
 Benzo(b)fluoranthene
 Concen: 24.358 ng
 RT: 23.450 min Scan# 3479
 Delta R.T. -0.006 min
 Lab File: BM049867.D
 Acq: 09 Apr 2025 14:26

Tgt Ion:252 Resp: 2892739
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.5 26.3
 125 8.3 6.2 9.4

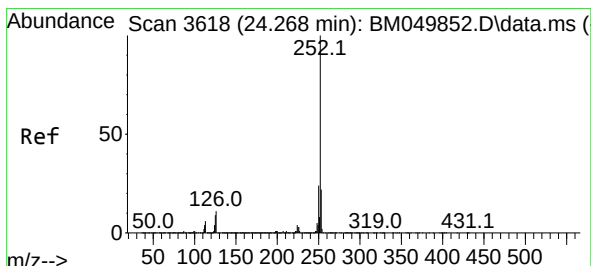
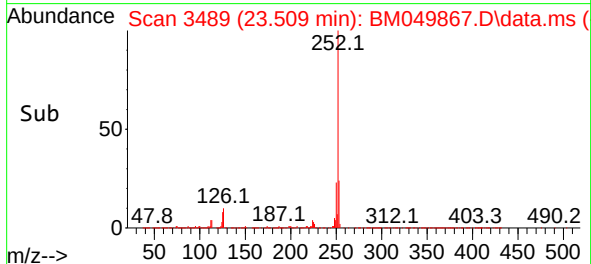
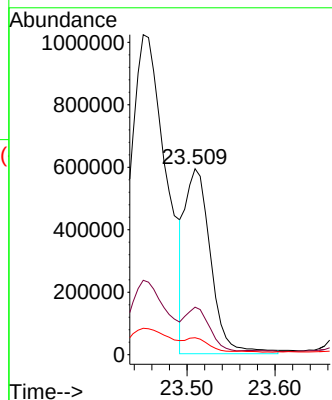
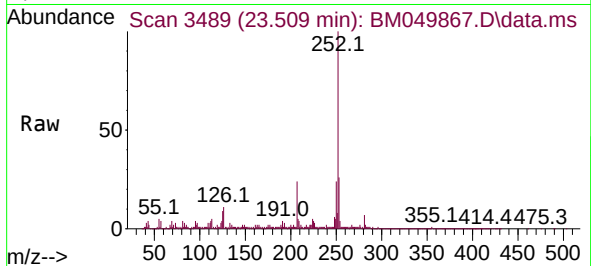




#89
Benzo(k)fluoranthene
Concen: 10.463 ng m
RT: 23.509 min Scan# 3491
Delta R.T. -0.012 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

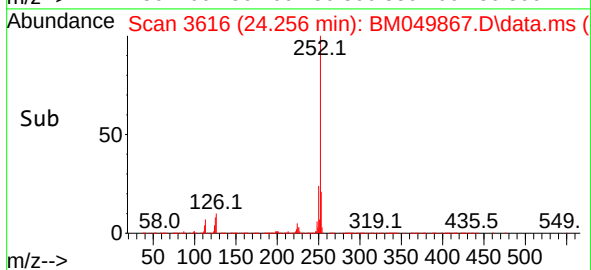
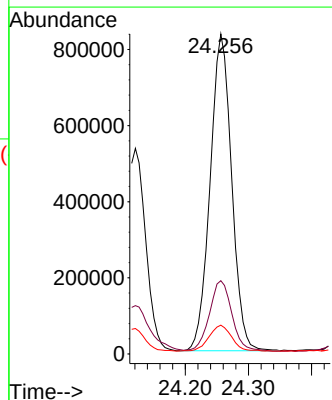
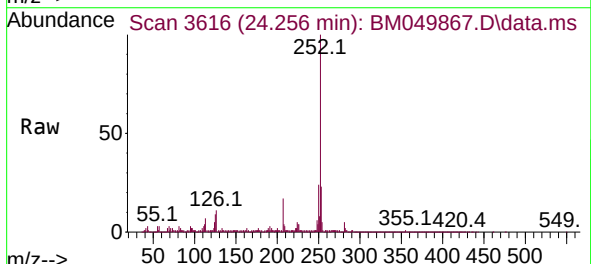
Instrument :
BNA_M
ClientSampleId :
TR-06-040725

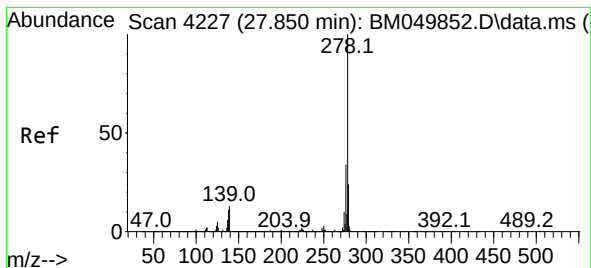
Tgt Ion:252 Resp: 1204079
Ion Ratio Lower Upper
252 100
253 25.5 17.4 26.2
125 9.2 5.8 8.8#



#90
Benzo(a)pyrene
Concen: 18.877 ng
RT: 24.256 min Scan# 3616
Delta R.T. -0.012 min
Lab File: BM049867.D
Acq: 09 Apr 2025 14:26

Tgt Ion:252 Resp: 1969921
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 9.0 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 3.244 ng

RT: 27.826 min Scan# 41

Delta R.T. -0.023 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

Instrument :

BNA_M

ClientSampleId :

TR-06-040725

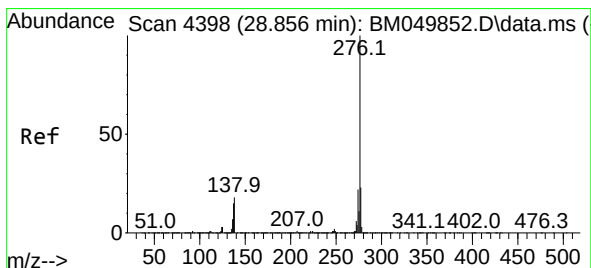
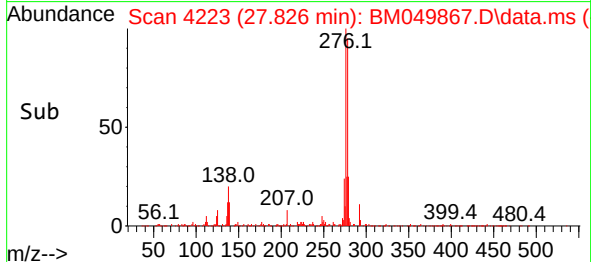
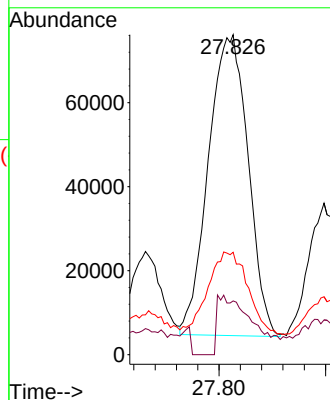
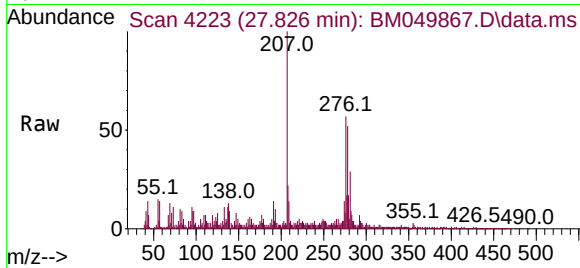
Tgt Ion:278 Resp: 370341

Ion Ratio Lower Upper

278 100

139 16.8 10.6 15.8#

279 32.0 19.1 28.7#



#92

Benzo(g,h,i)perylene

Concen: 12.754 ng

RT: 28.838 min Scan# 4395

Delta R.T. -0.018 min

Lab File: BM049867.D

Acq: 09 Apr 2025 14:26

Tgt Ion:276 Resp: 1487989

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 19.5 14.6 21.8

