

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
 Data File : BM049966.D
 Acq On : 18 Apr 2025 15:08
 Operator : RC/JU
 Sample : Q1832-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-01

Quant Time: Apr 18 15:42:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

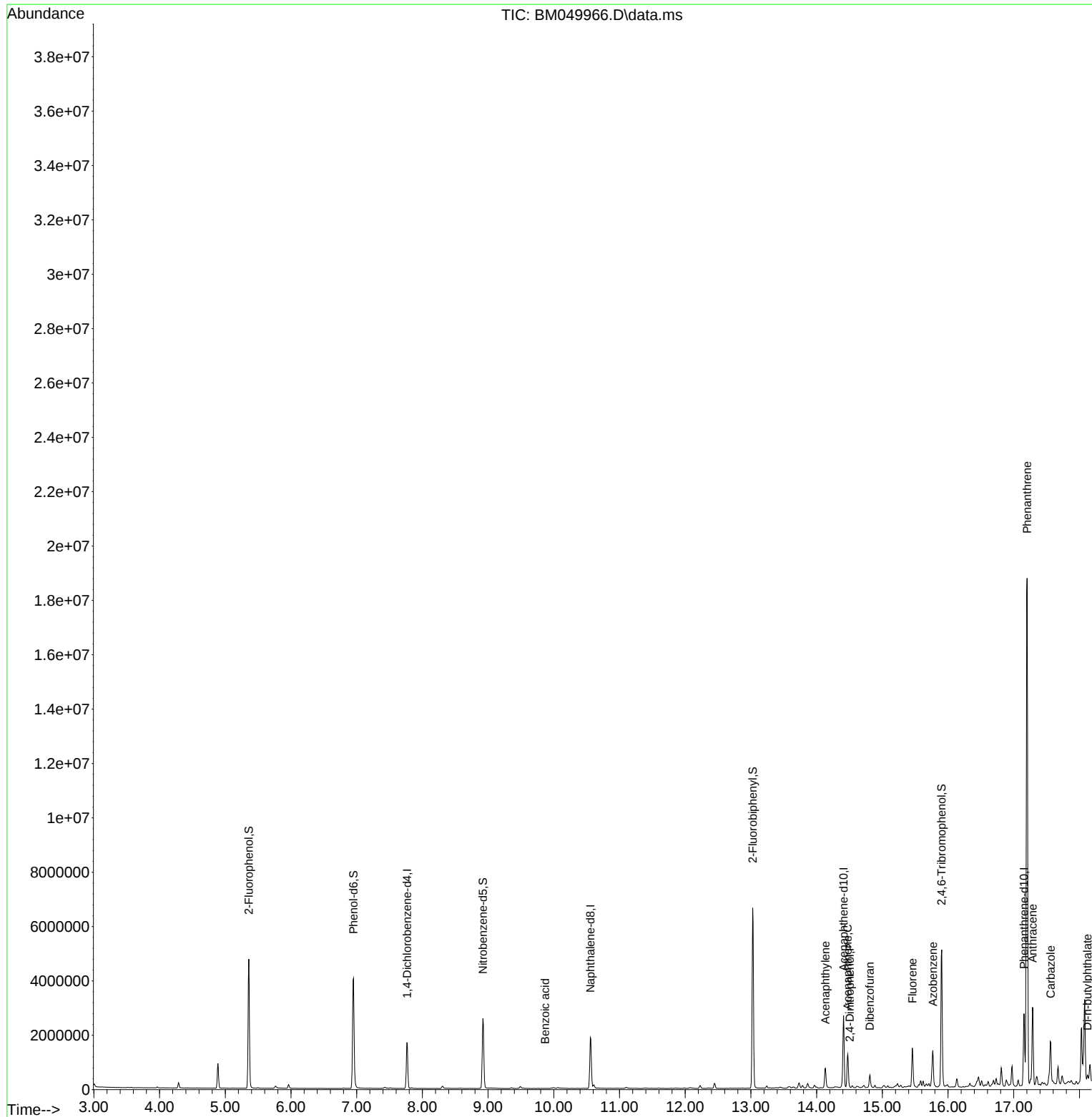
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	506120	20.000	ng	-0.01
21) Naphthalene-d8	10.557	136	1642428	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	941403	20.000	ng	-0.01
64) Phenanthrene-d10	17.156	188	1676116	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1755381	20.000	ng	0.00
86) Perylene-d12	24.397	264	1744669	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	2119508	71.111	ng	0.00
7) Phenol-d6	6.951	99	2569278	69.284	ng	0.00
23) Nitrobenzene-d5	8.922	82	1533835	52.003	ng	-0.01
42) 2,4,6-Tribromophenol	15.904	330	992644	72.493	ng	0.00
45) 2-Fluorobiphenyl	13.027	172	3705971	53.381	ng	-0.02
79) Terphenyl-d14	19.780	244	4405091	47.029	ng	-0.01
Target Compounds						Qvalue
32) Benzoic acid	9.869	122	203	8.546	ng	# 88
49) Acenaphthylene	14.133	152	596543	7.445	ng	99
52) Acenaphthene	14.474	154	462932	9.084	ng	99
54) 2,4-Dinitrophenol	14.504	184	62	7.230	ng	# 1
55) Dibenzofuran	14.810	168	279574	3.282	ng	99
58) Fluorene	15.457	166	666399	9.840	ng	98
63) Azobenzene	15.768	77	314593	5.769	ng	# 1
71) Phenanthrene	17.204	178	12204386	132.813	ng	97
72) Anthracene	17.286	178	1848775	20.416	ng	99
73) Carbazole	17.562	167	1069351	12.537	ng	99
74) Di-n-butylphthalate	18.121	149	223724	2.277	ng	97
75) Fluoranthene	19.215	202	16585735	146.797	ng	85
78) Pyrene	19.580	202	16184959	133.785	ng	# 78
81) Benzo(a)anthracene	21.380	228	10041235	86.071	ng	95
83) Chrysene	21.444	228	9824061	88.576	ng	96
87) Indeno(1,2,3-cd)pyrene	27.797	276	5975397	45.947	ng	# 95
88) Benzo(b)fluoranthene	23.462	252	13169279	118.189	ng	98
89) Benzo(k)fluoranthene	23.515	252	4121793	38.172	ng	97
90) Benzo(a)pyrene	24.268	252	9386202	95.863	ng	98
91) Dibenzo(a,h)anthracene	27.826	278	1514092	14.134	ng	95
92) Benzo(g,h,i)perylene	28.862	276	5536704	50.581	ng	98

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

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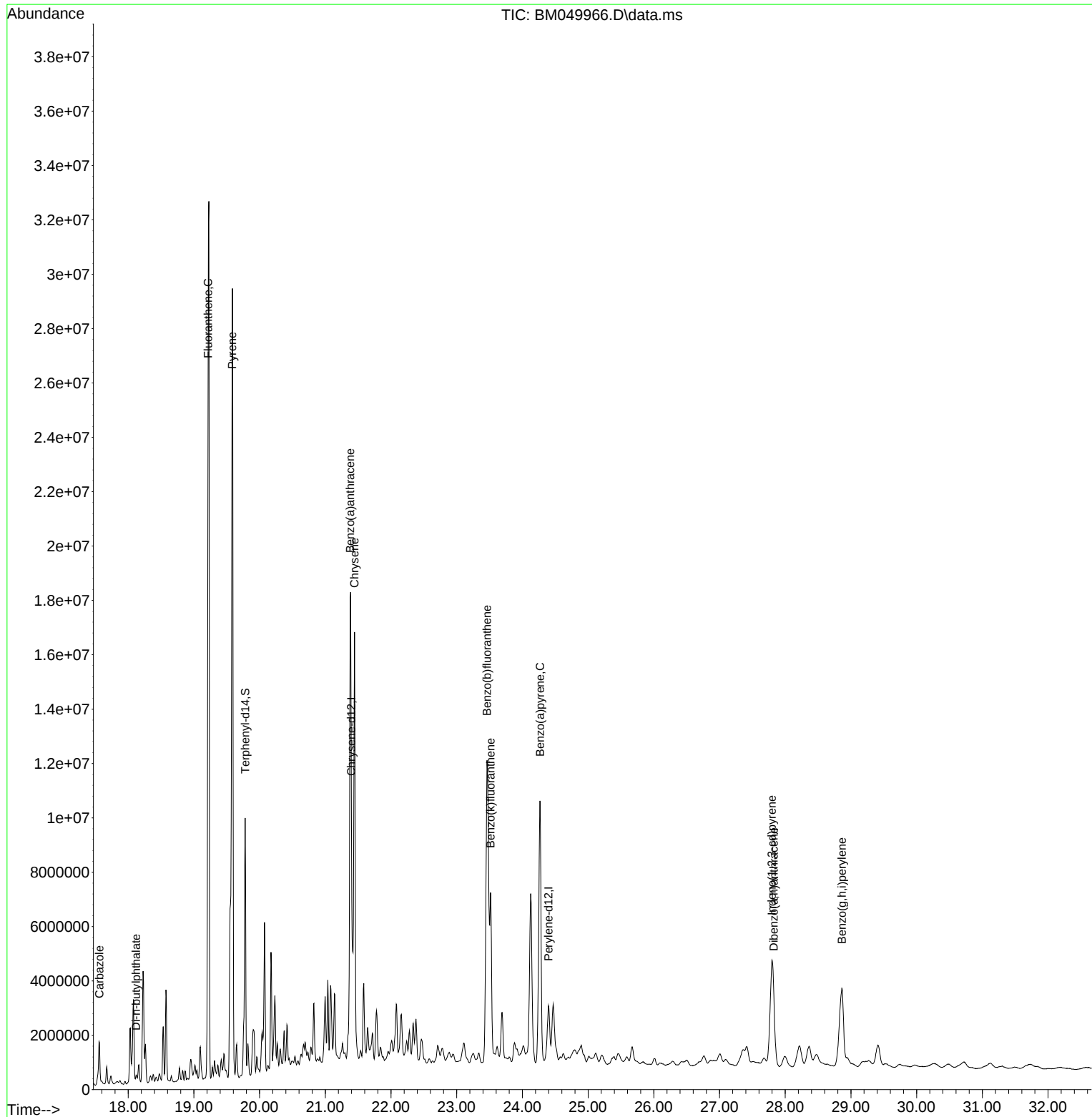
Quant Time: Apr 18 15:42:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
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Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041825\
Data File : BM049966.D
Acq On : 18 Apr 2025 15:08
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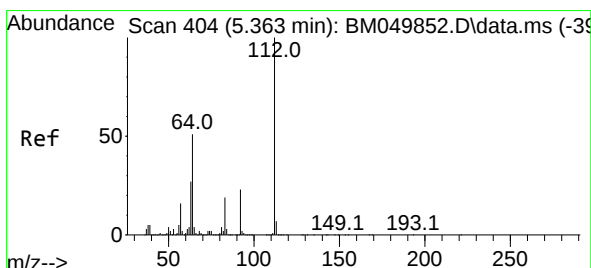
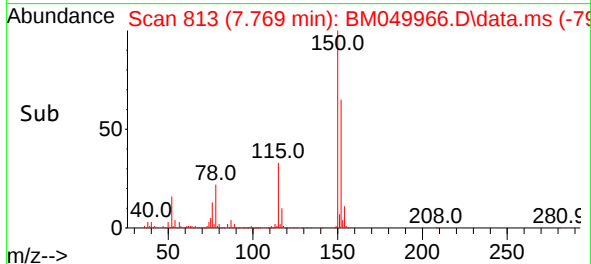
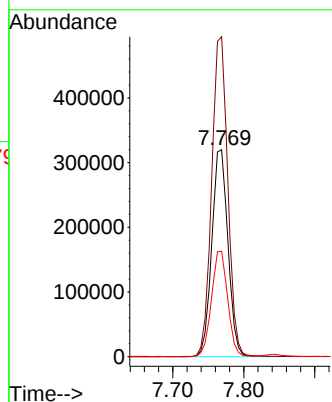
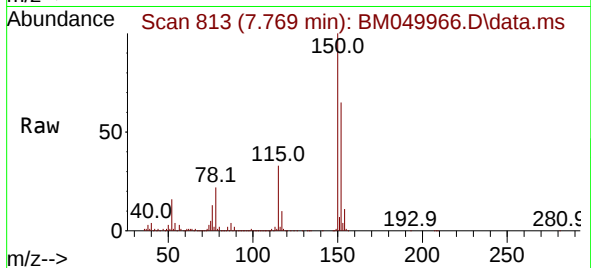




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

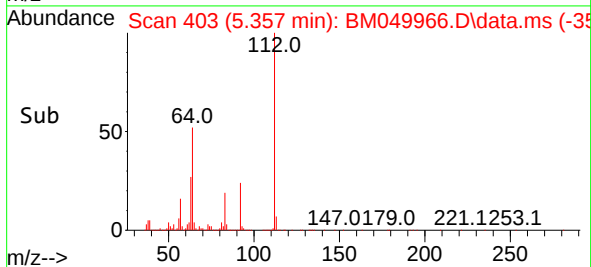
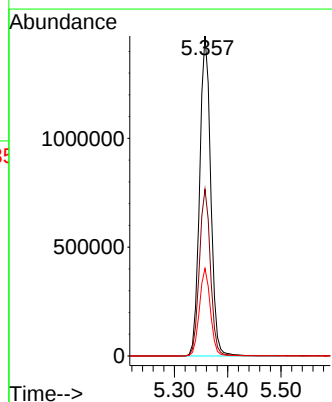
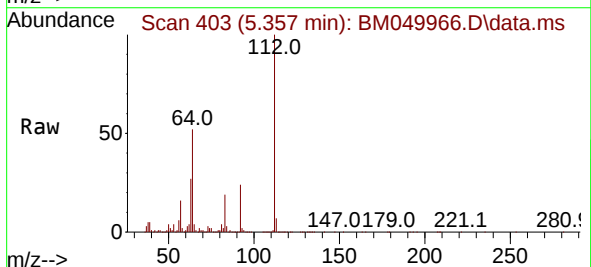
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01

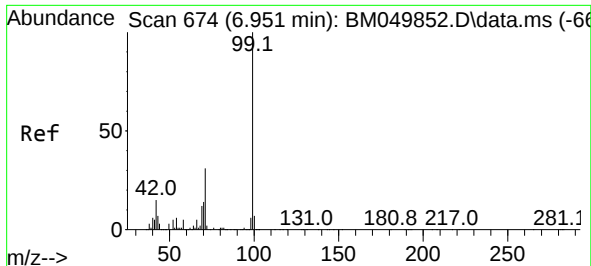
Tgt Ion:152 Resp: 506120
Ion Ratio Lower Upper
152 100
150 154.6 124.3 186.5
115 51.0 41.1 61.7



#5
2-Fluorophenol
Concen: 71.111 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:112 Resp: 2119508
Ion Ratio Lower Upper
112 100
64 52.1 41.0 61.6
63 27.4 21.5 32.3



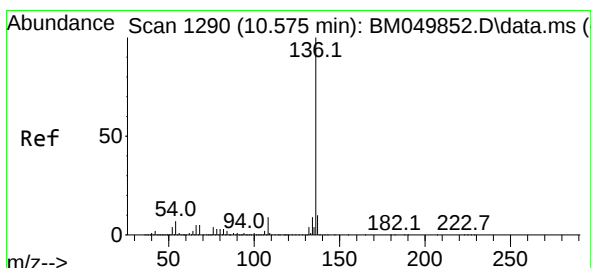
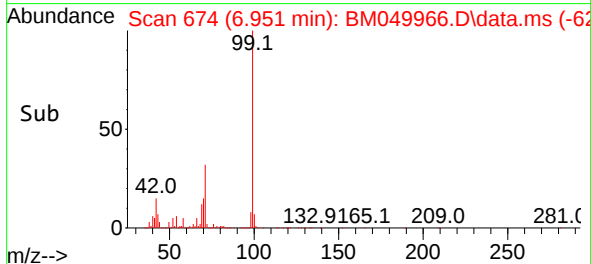
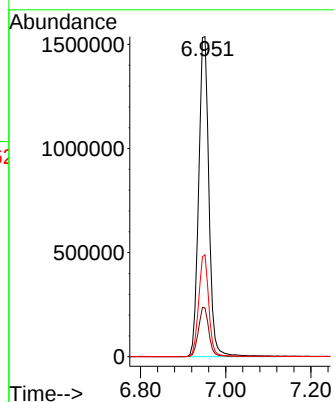
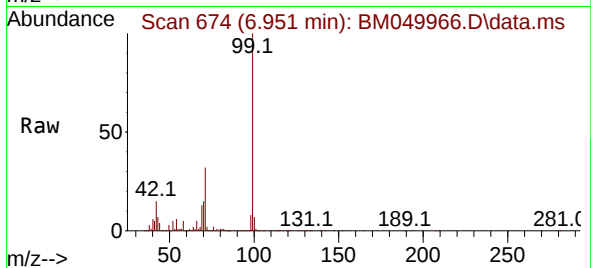


#7
Phenol-d6
Concen: 69.284 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01

Tgt Ion: 99 Resp: 2569278

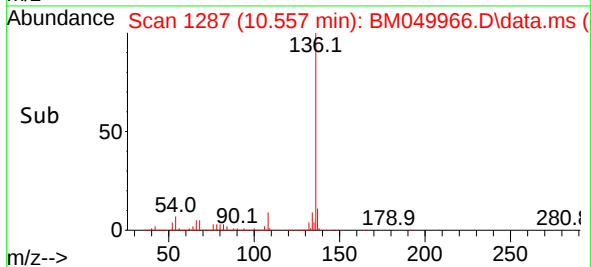
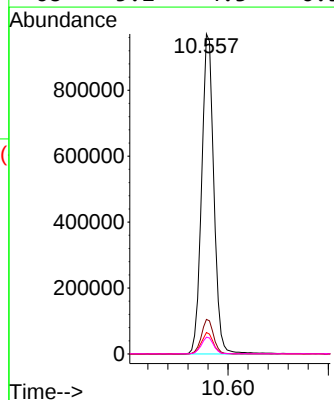
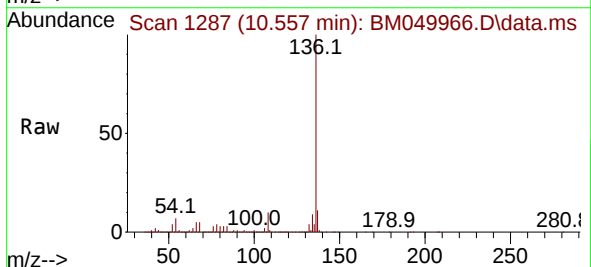
Ion	Ratio	Lower	Upper
99	100		
42	15.3	12.1	18.1
71	31.8	24.9	37.3

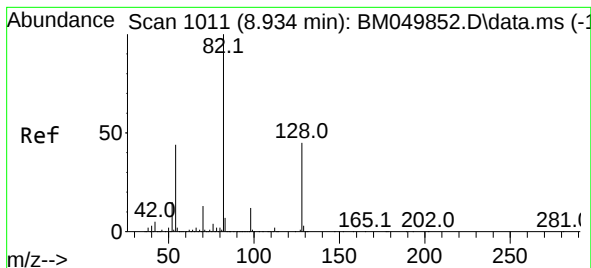


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion: 136 Resp: 1642428

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.4	12.6
54	6.7	5.3	7.9
68	5.2	4.3	6.5

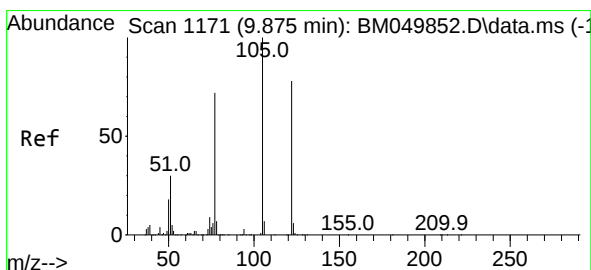
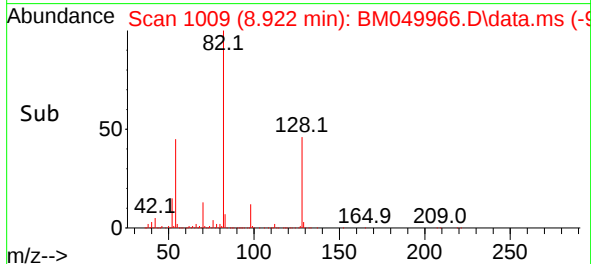
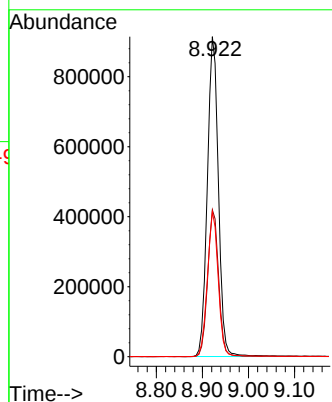
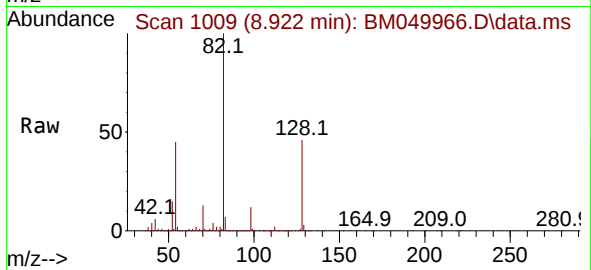




#23
Nitrobenzene-d5
Concen: 52.003 ng
RT: 8.922 min Scan# 1009
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

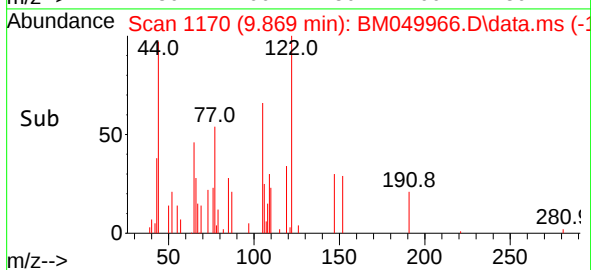
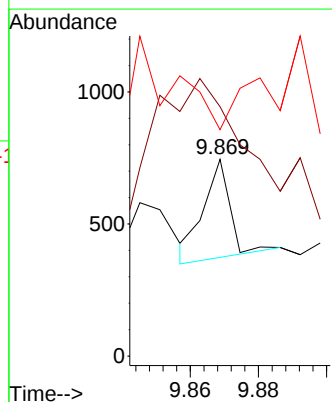
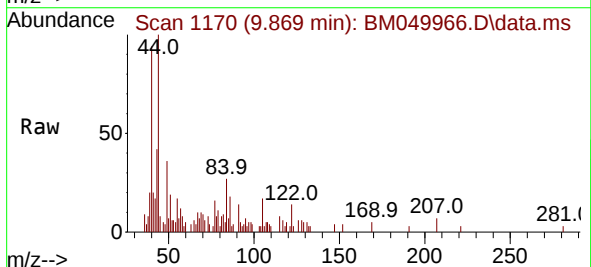
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01

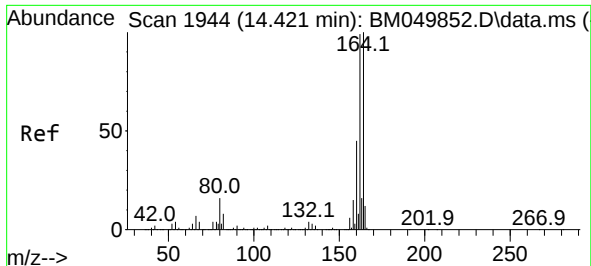
Tgt Ion: 82 Resp: 1533835
Ion Ratio Lower Upper
82 100
128 45.9 36.2 54.2
54 45.4 35.0 52.6



#32
Benzoic acid
Concen: 8.546 ng
RT: 9.869 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:122 Resp: 203
Ion Ratio Lower Upper
122 100
105 126.7 103.8 143.8
77 115.0 70.7 110.7#

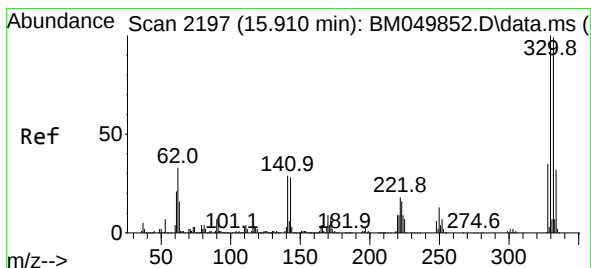
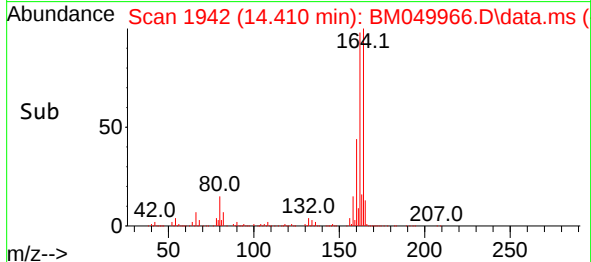
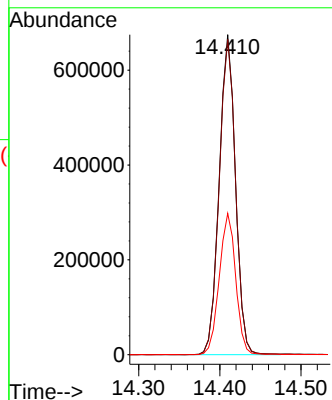
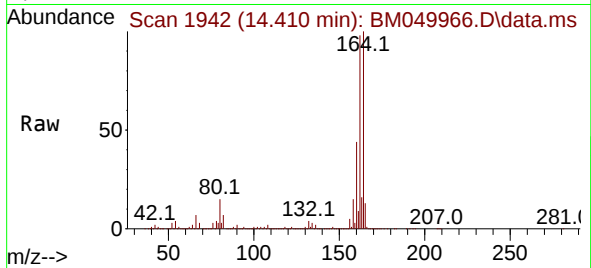




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

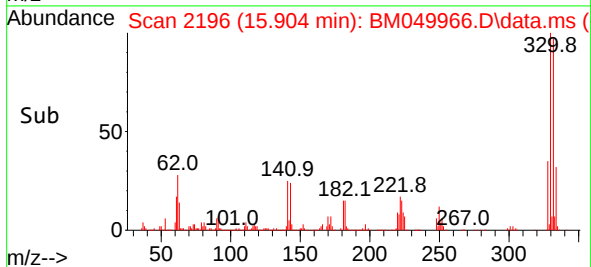
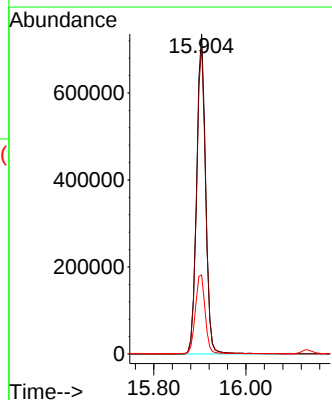
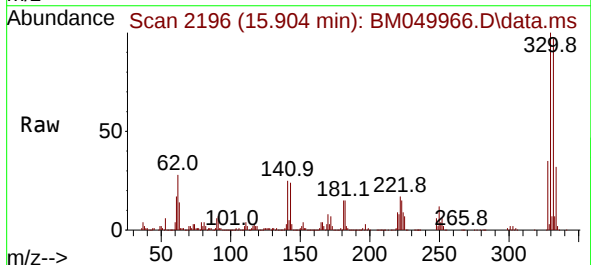
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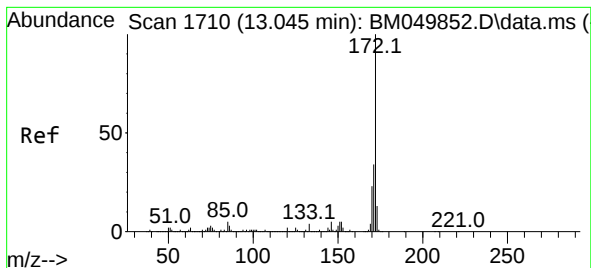
Tgt Ion:164 Resp: 941403
Ion Ratio Lower Upper
164 100
162 98.5 79.4 119.0
160 44.2 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 72.493 ng
RT: 15.904 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:330 Resp: 992644
Ion Ratio Lower Upper
330 100
332 96.3 78.0 117.0
141 26.7 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 53.381 ng

RT: 13.027 min Scan# 1

Delta R.T. -0.018 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

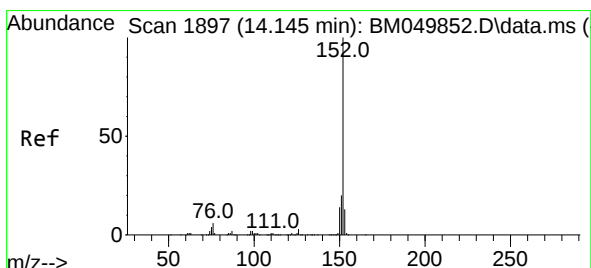
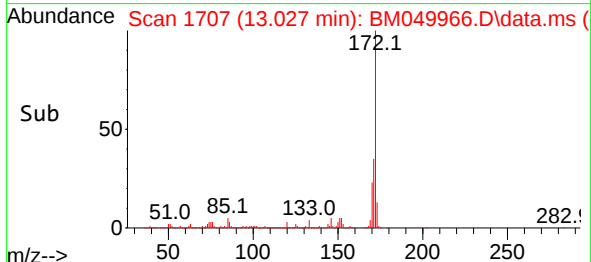
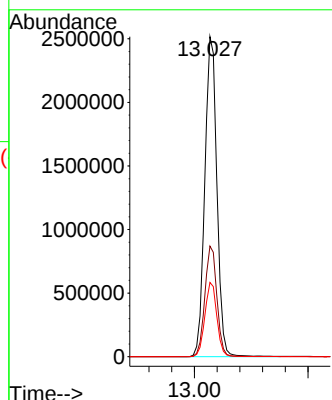
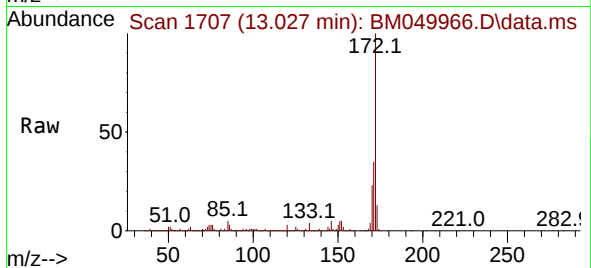
Tgt Ion:172 Resp: 3705971

Ion Ratio Lower Upper

172 100

171 34.5 27.4 41.2

170 23.2 18.6 28.0



#49

Acenaphthylene

Concen: 7.445 ng

RT: 14.133 min Scan# 1895

Delta R.T. -0.012 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

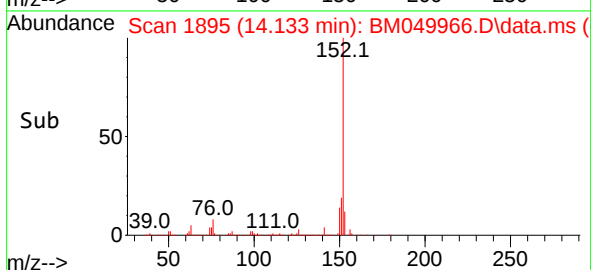
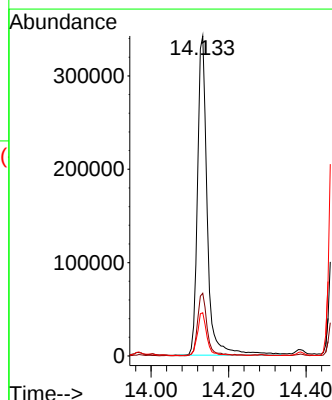
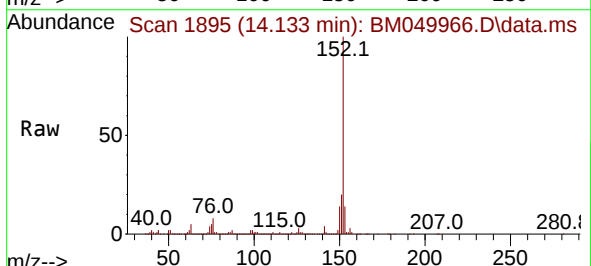
Tgt Ion:152 Resp: 596543

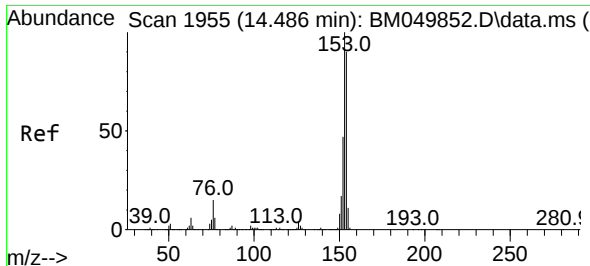
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.5 10.4 15.6

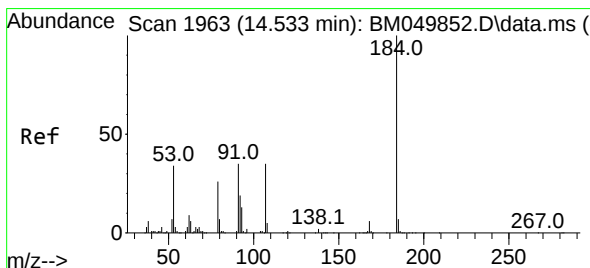
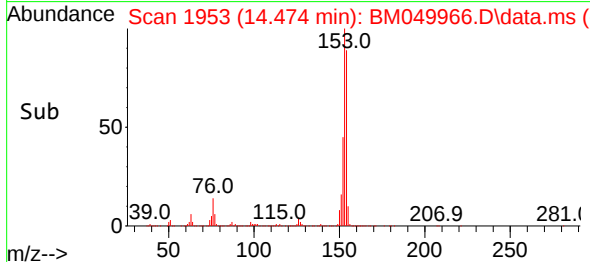
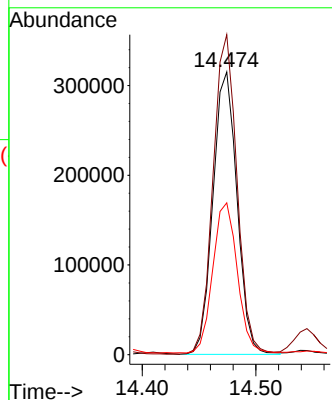
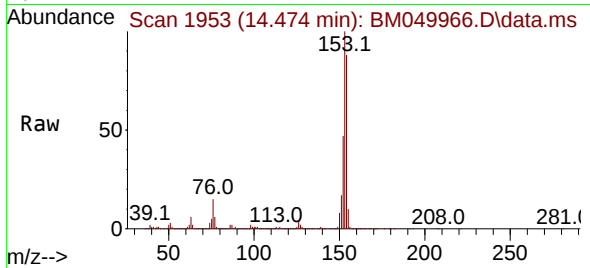




#52
Acenaphthene
Concen: 9.084 ng
RT: 14.474 min Scan# 1953
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

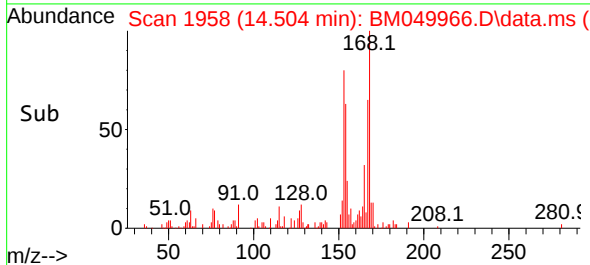
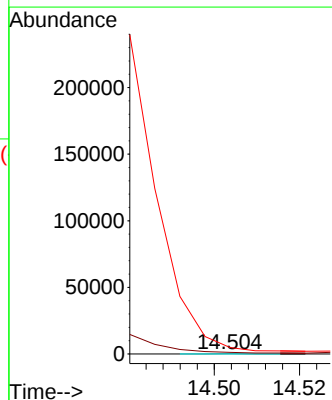
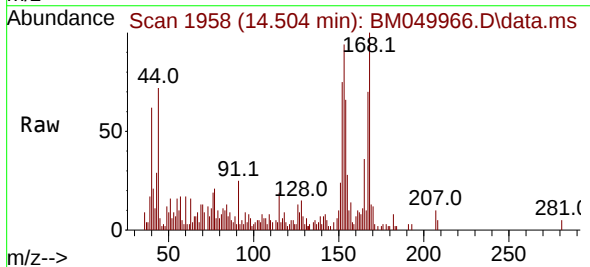
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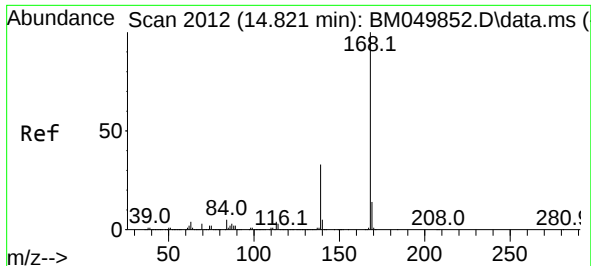
Tgt Ion:154 Resp: 462932
Ion Ratio Lower Upper
154 100
153 113.2 89.3 133.9
152 53.7 42.2 63.2



#54
2,4-Dinitrophenol
Concen: 7.230 ng
RT: 14.504 min Scan# 1958
Delta R.T. -0.029 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:184 Resp: 62
Ion Ratio Lower Upper
184 100
63 664.6 38.4 57.6#
154 2716.6 48.1 72.1#

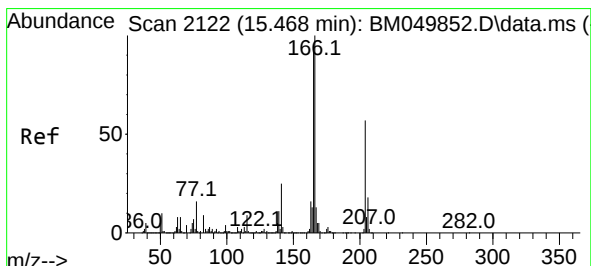
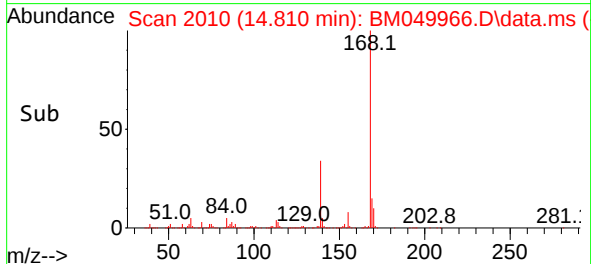
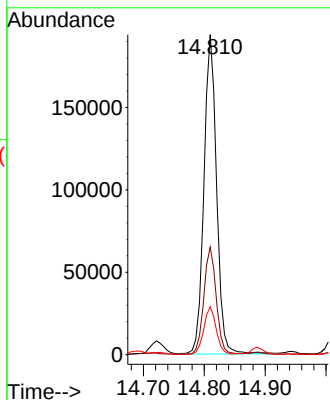
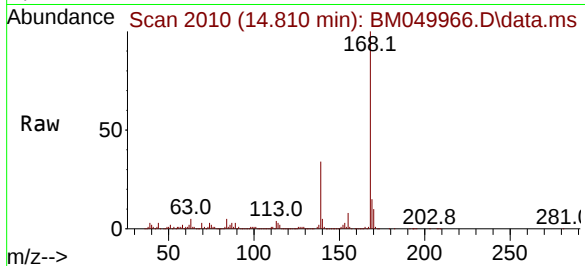




#55
Dibenzofuran
Concen: 3.282 ng
RT: 14.810 min Scan# 2012
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

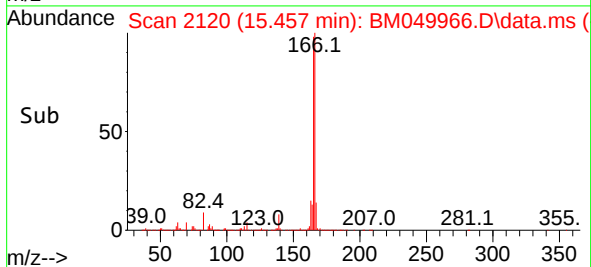
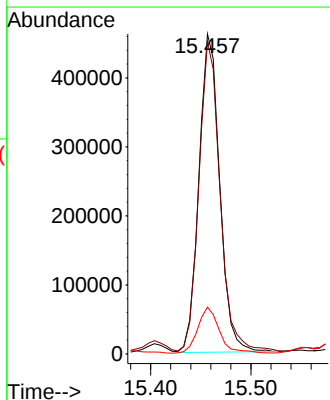
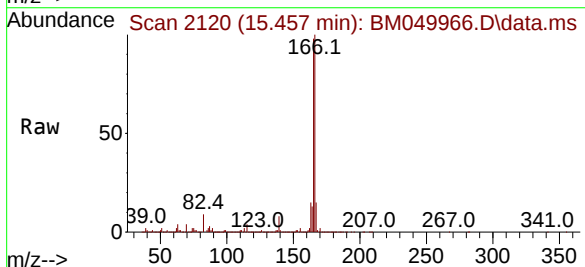
Instrument :
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ClientSampleId :
PL-714-COMP-01

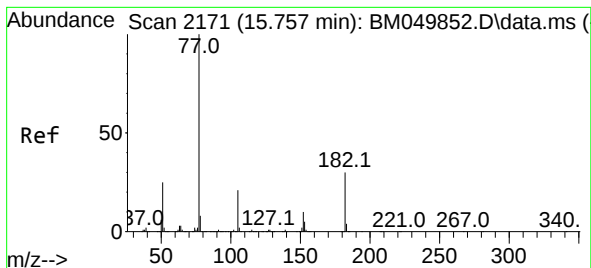
Tgt Ion:168 Resp: 279574
Ion Ratio Lower Upper
168 100
139 33.6 26.6 39.8
169 15.0 11.0 16.4



#58
Fluorene
Concen: 9.840 ng
RT: 15.457 min Scan# 2120
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:166 Resp: 666399
Ion Ratio Lower Upper
166 100
165 97.7 76.3 114.5
167 14.7 10.7 16.1





#63

Azobenzene

Concen: 5.769 ng

RT: 15.768 min Scan# 2171

Delta R.T. 0.012 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

Tgt Ion: 77 Resp: 314593

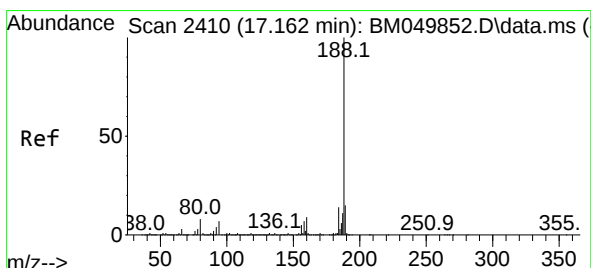
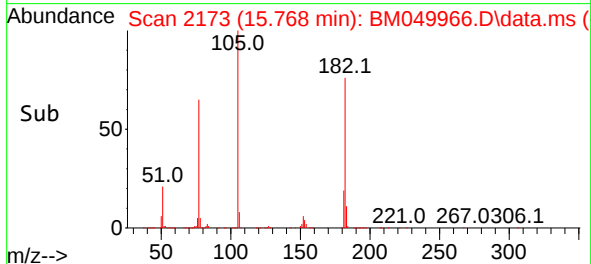
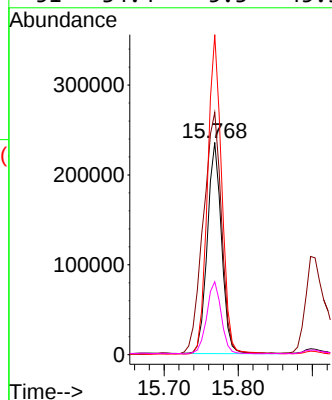
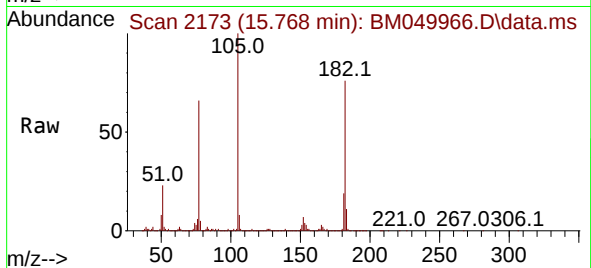
Ion Ratio Lower Upper

77 100

182 114.2 10.4 50.4#

105 150.9 1.5 41.5#

51 34.4 5.3 45.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.156 min Scan# 2409

Delta R.T. -0.006 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

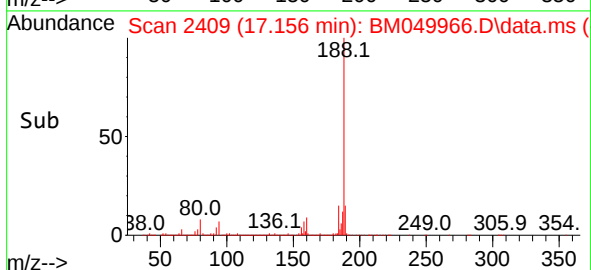
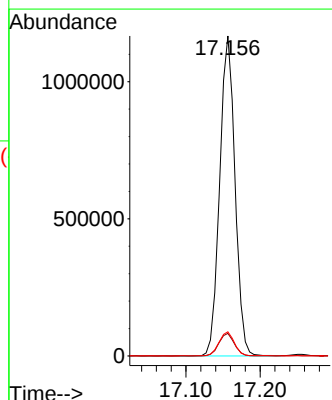
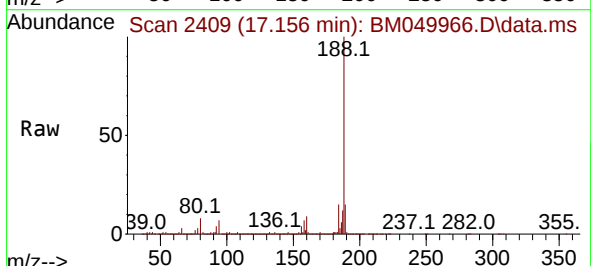
Tgt Ion:188 Resp: 1676116

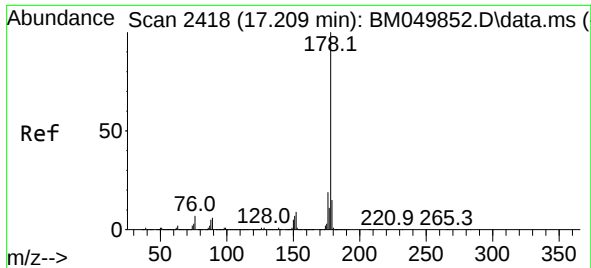
Ion Ratio Lower Upper

188 100

94 7.1 5.8 8.6

80 7.6 6.4 9.6

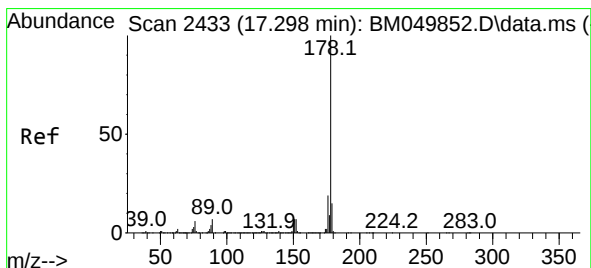
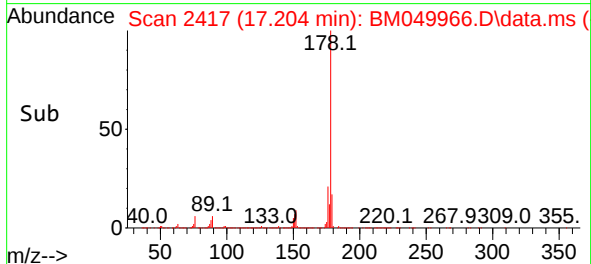
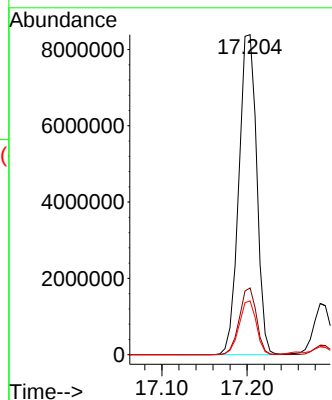
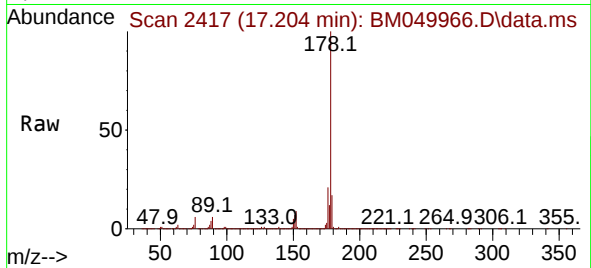




#71
Phenanthrene
Concen: 132.813 ng
RT: 17.204 min Scan# 2418
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

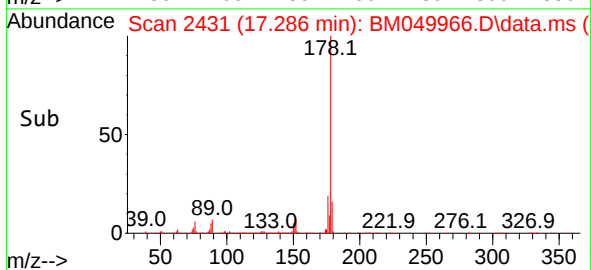
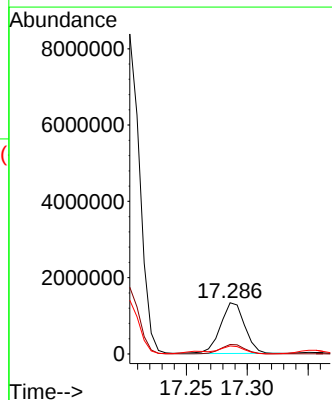
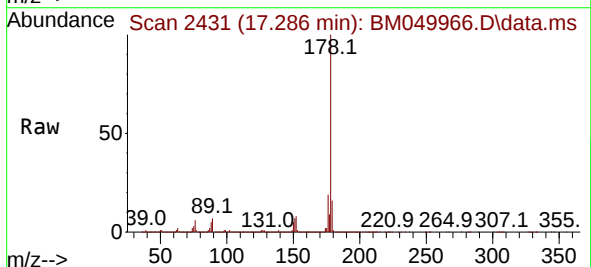
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01

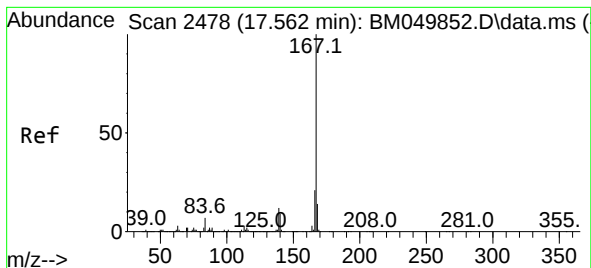
Tgt Ion:178 Resp:12204386
Ion Ratio Lower Upper
178 100
176 20.8 15.4 23.2
179 16.8 12.3 18.5



#72
Anthracene
Concen: 20.416 ng
RT: 17.286 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:178 Resp: 1848775
Ion Ratio Lower Upper
178 100
176 18.6 15.1 22.7
179 15.8 12.4 18.6





#73

Carbazole

Concen: 12.537 ng

RT: 17.562 min Scan# 24

Delta R.T. -0.000 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

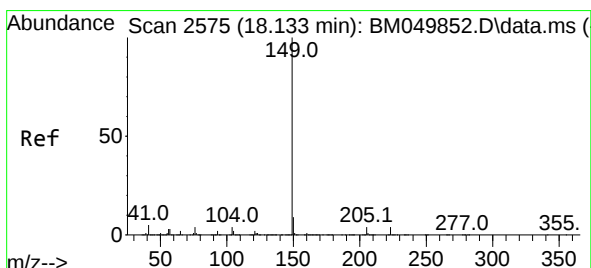
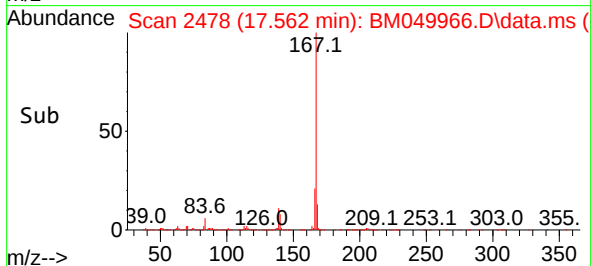
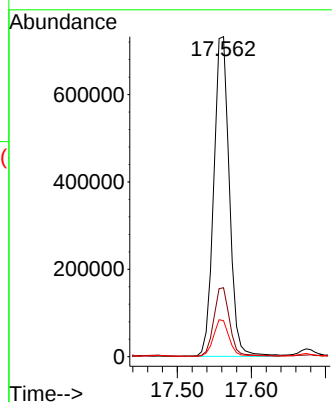
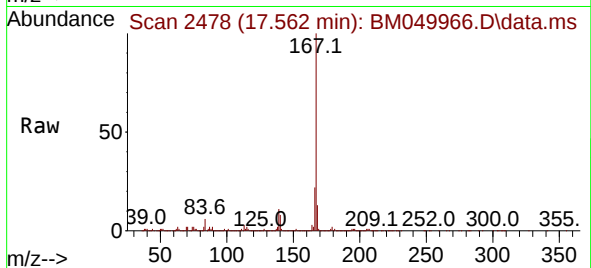
Tgt Ion:167 Resp: 1069351

Ion Ratio Lower Upper

167 100

166 21.5 16.9 25.3

139 11.3 9.3 13.9



#74

Di-n-butylphthalate

Concen: 2.277 ng

RT: 18.121 min Scan# 2573

Delta R.T. -0.012 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

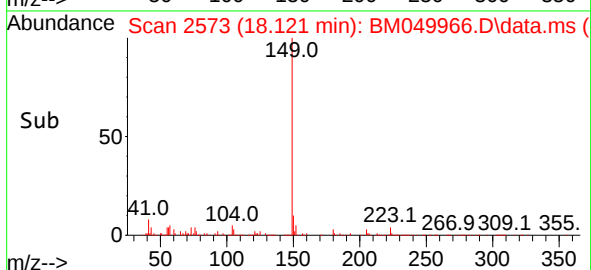
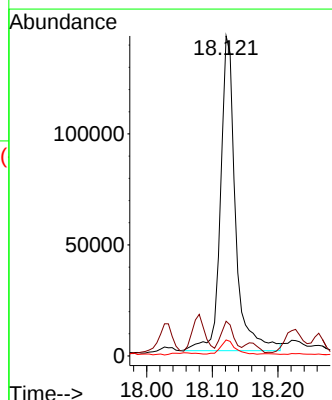
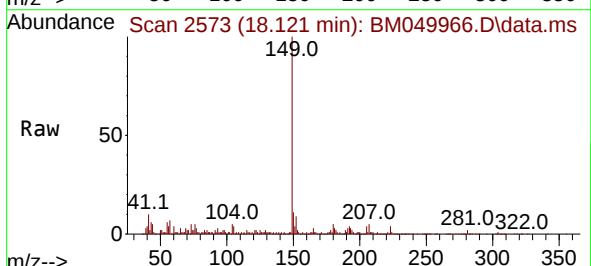
Tgt Ion:149 Resp: 223724

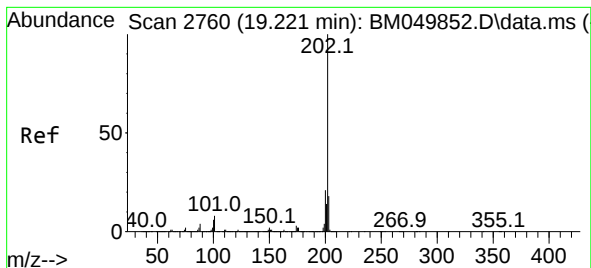
Ion Ratio Lower Upper

149 100

150 10.9 7.5 11.3

104 5.0 3.5 5.3





#75

Fluoranthene

Concen: 146.797 ng

RT: 19.215 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

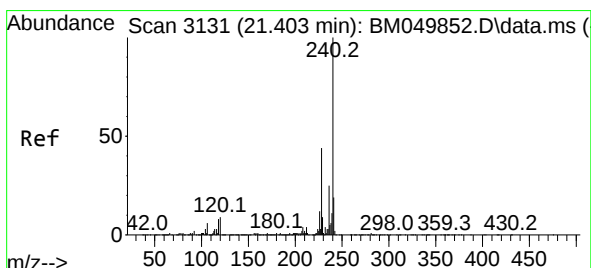
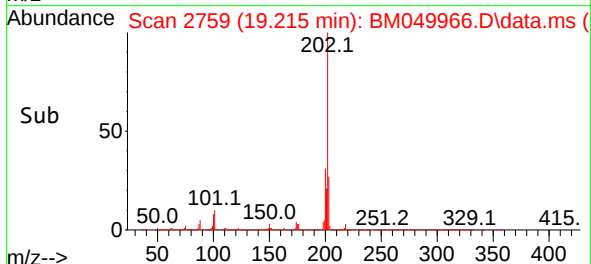
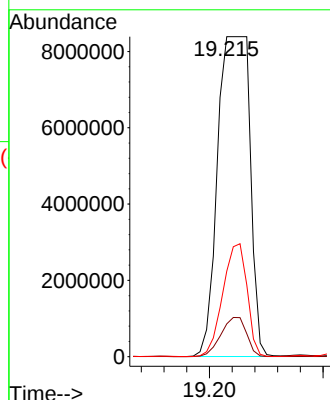
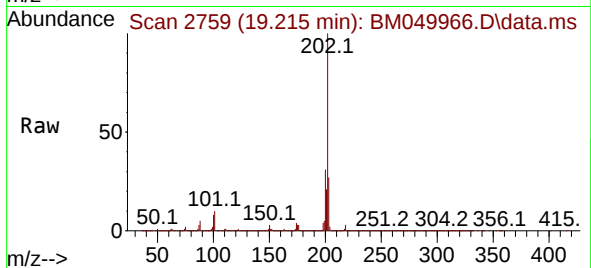
Tgt Ion:202 Resp:16585735

Ion Ratio Lower Upper

202 100

101 10.3 0.0 28.4

203 26.7 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 3130

Delta R.T. -0.006 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

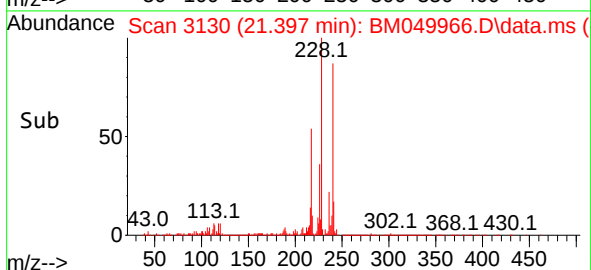
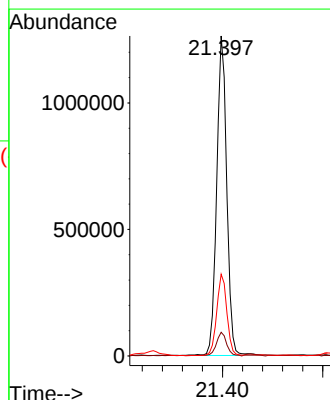
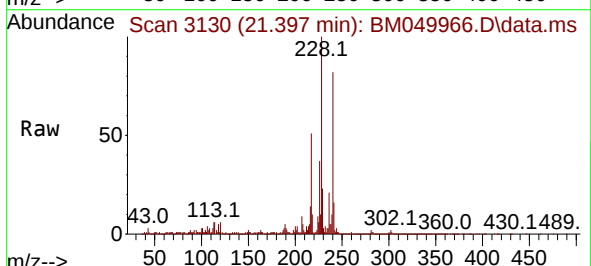
Tgt Ion:240 Resp: 1755381

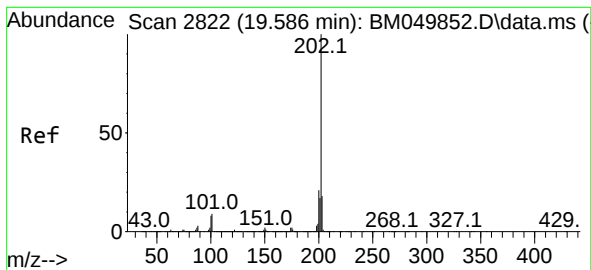
Ion Ratio Lower Upper

240 100

120 7.4 6.9 10.3

236 25.5 20.4 30.6





#78

Pyrene

Concen: 133.785 ng

RT: 19.580 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

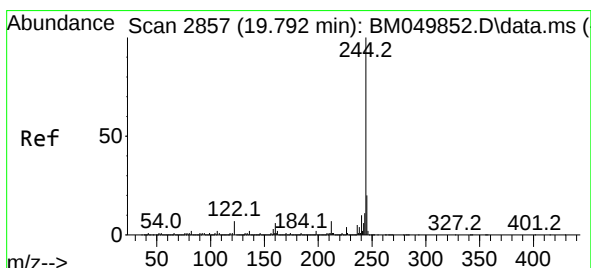
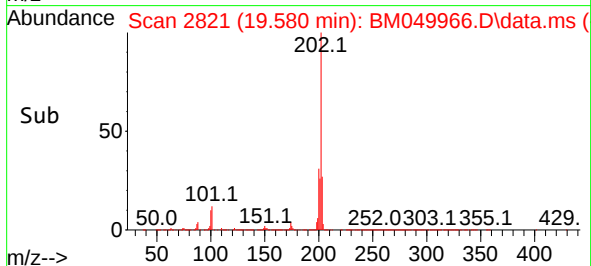
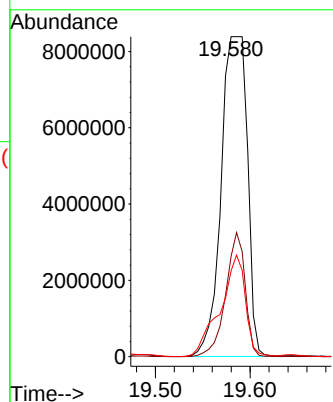
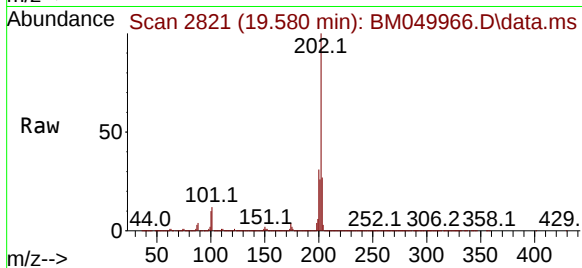
Tgt Ion:202 Resp:16184959

Ion Ratio Lower Upper

202 100

200 31.4 16.5 24.7#

203 26.8 14.0 21.0#



#79

Terphenyl-d14

Concen: 47.029 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

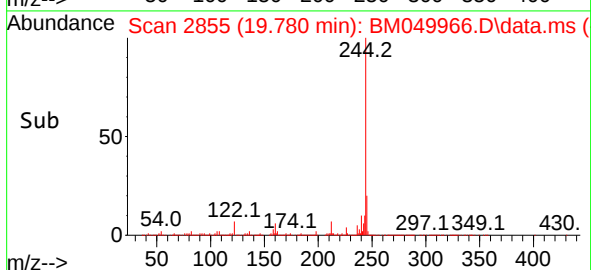
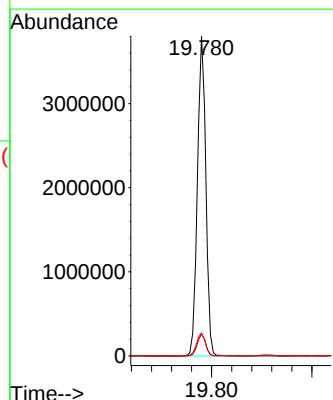
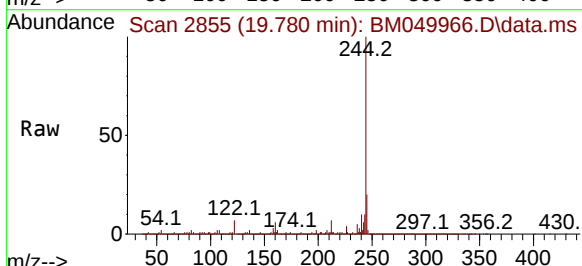
Tgt Ion:244 Resp: 4405091

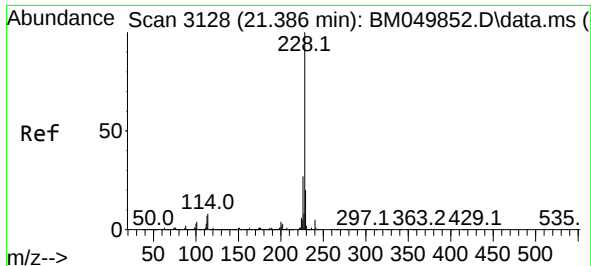
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 7.1 5.4 8.0

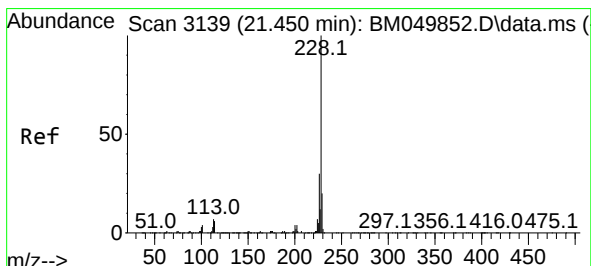
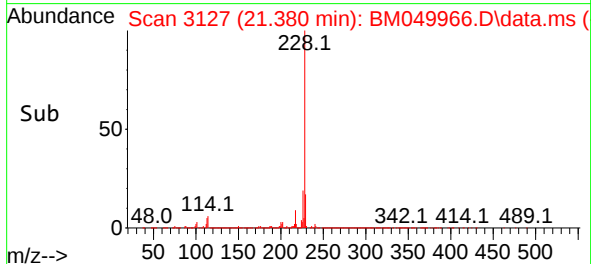
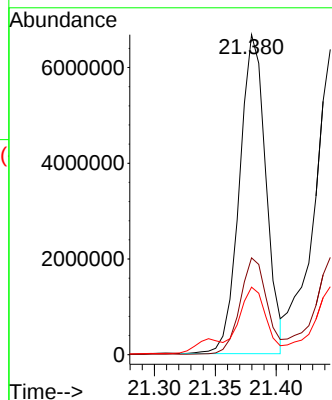
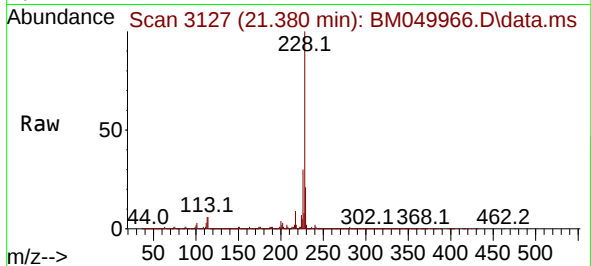




#81
Benzo(a)anthracene
Concen: 86.071 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

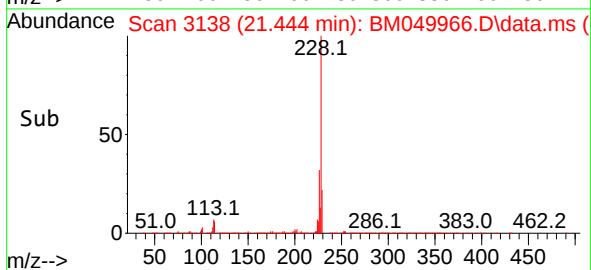
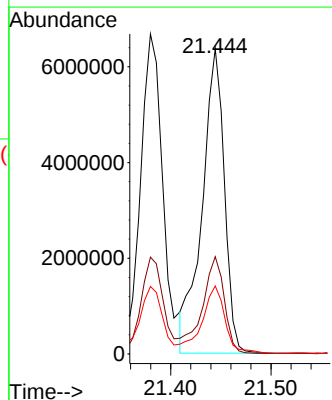
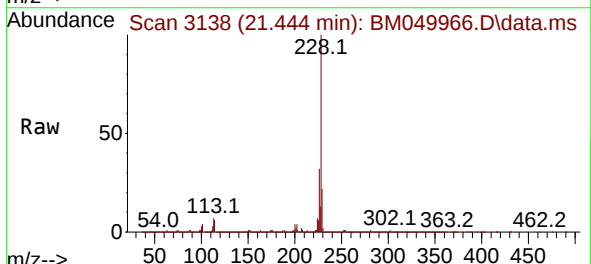
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01

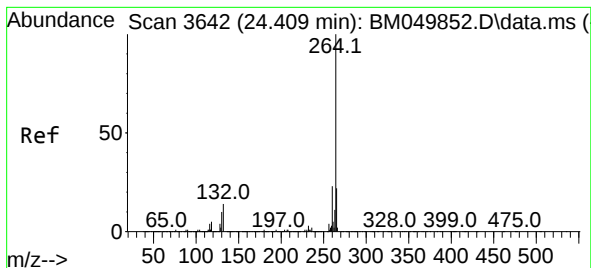
Tgt Ion:228 Resp:10041235
Ion Ratio Lower Upper
228 100
226 30.3 21.8 32.8
229 21.1 15.8 23.8



#83
Chrysene
Concen: 88.576 ng
RT: 21.444 min Scan# 3138
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:228 Resp: 9824061
Ion Ratio Lower Upper
228 100
226 31.9 24.1 36.1
229 22.3 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: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

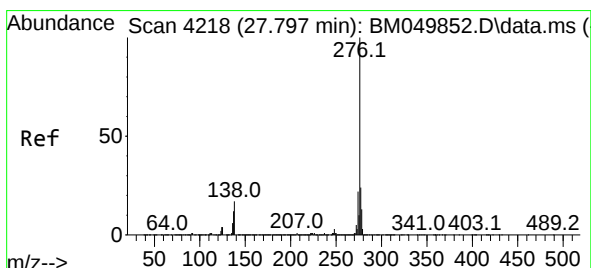
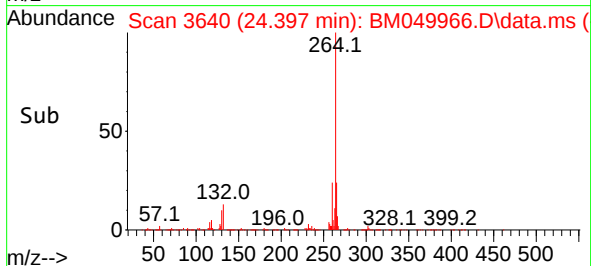
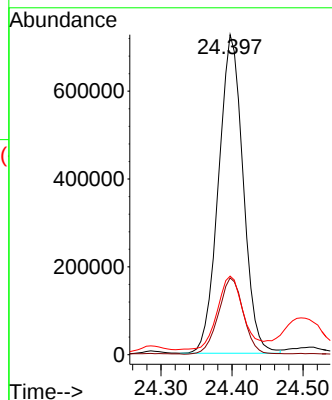
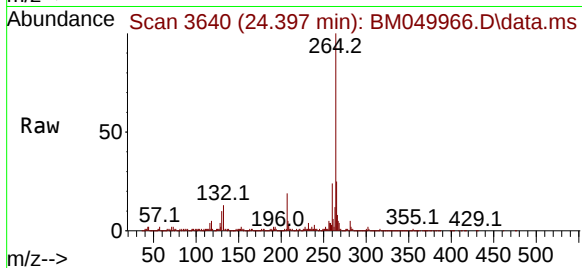
Tgt Ion:264 Resp: 1744669

Ion Ratio Lower Upper

264 100

260 24.0 18.6 28.0

265 24.6 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 45.947 ng

RT: 27.797 min Scan# 4218

Delta R.T. -0.000 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

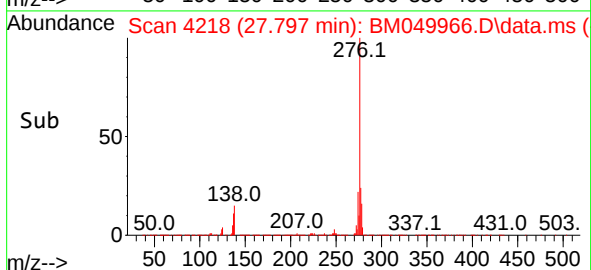
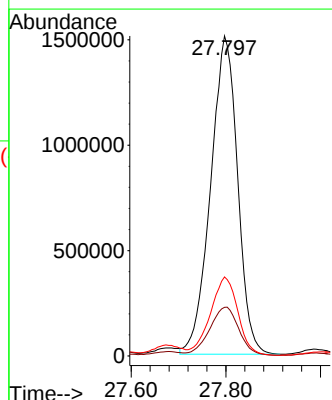
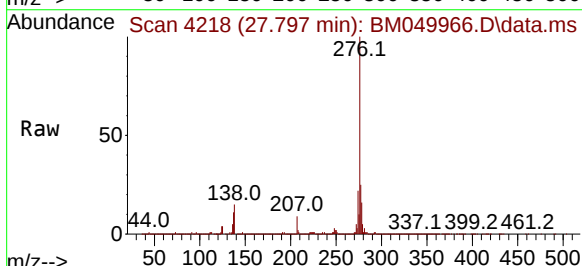
Tgt Ion:276 Resp: 5975397

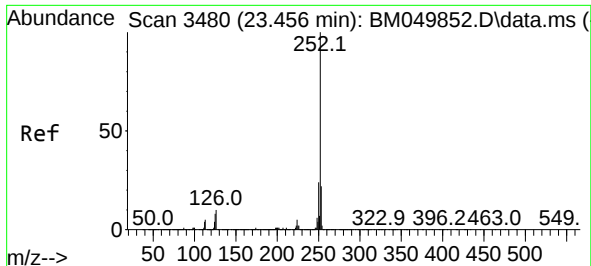
Ion Ratio Lower Upper

276 100

138 16.3 16.8 25.2#

277 25.0 20.1 30.1

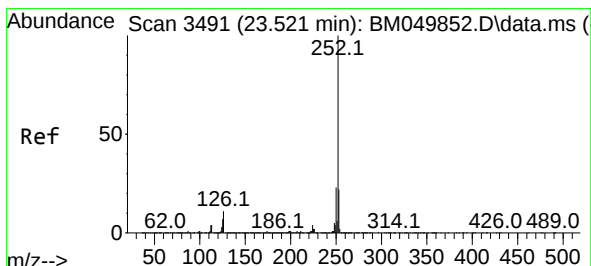
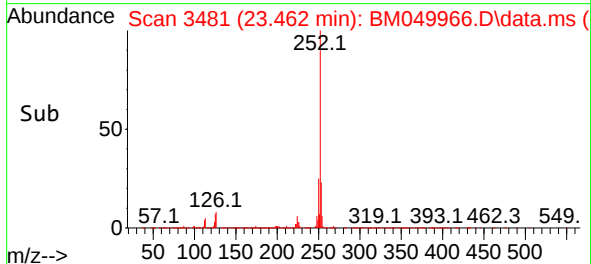
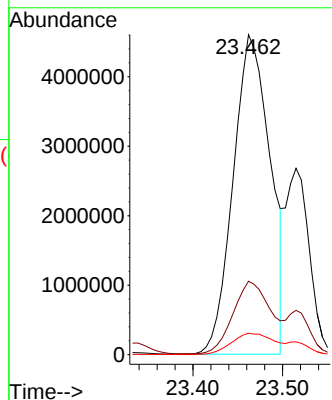
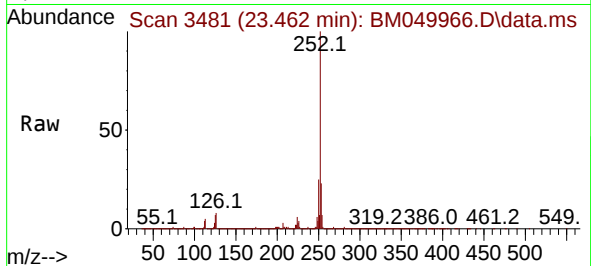




#88
Benzo(b)fluoranthene
Concen: 118.189 ng
RT: 23.462 min Scan# 3480
Delta R.T. 0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

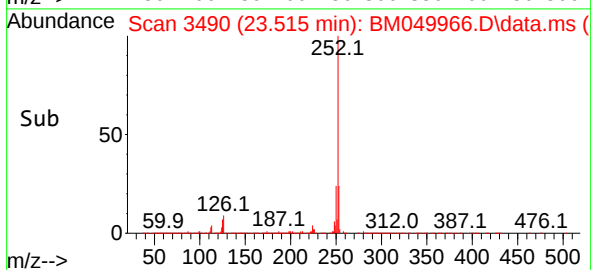
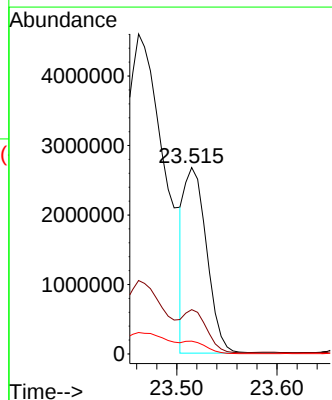
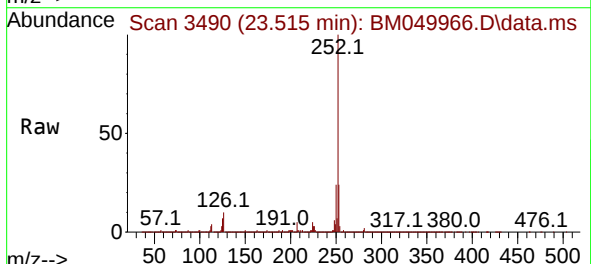
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-01

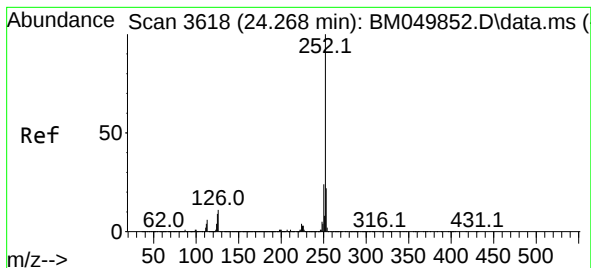
Tgt Ion:252 Resp:13169279
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 6.7 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 38.172 ng
RT: 23.515 min Scan# 3490
Delta R.T. -0.006 min
Lab File: BM049966.D
Acq: 18 Apr 2025 15:08

Tgt Ion:252 Resp: 4121793
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.2
125 6.9 5.8 8.8





#90

Benzo(a)pyrene

Concen: 95.863 ng

RT: 24.268 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-01

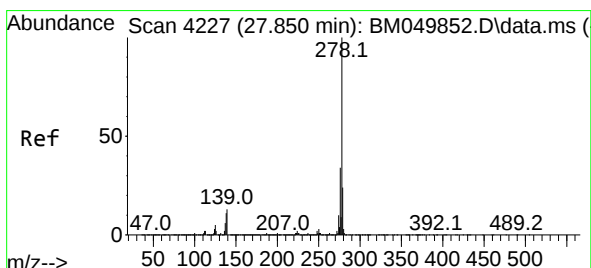
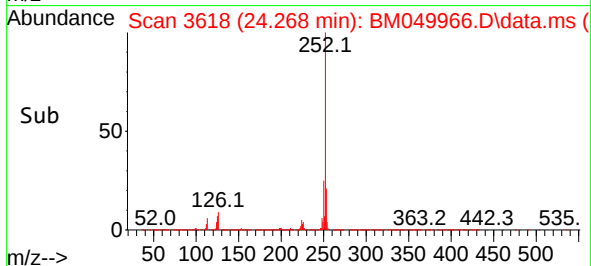
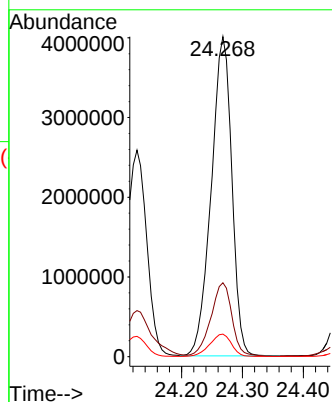
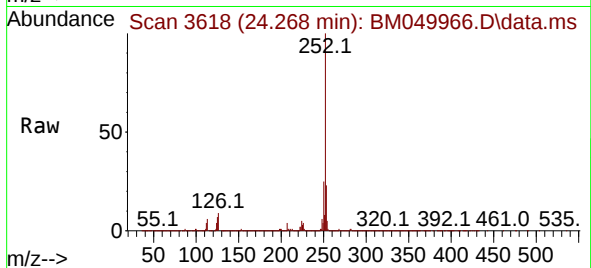
Tgt Ion:252 Resp: 9386202

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

125 7.0 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 14.134 ng

RT: 27.826 min Scan# 4223

Delta R.T. -0.024 min

Lab File: BM049966.D

Acq: 18 Apr 2025 15:08

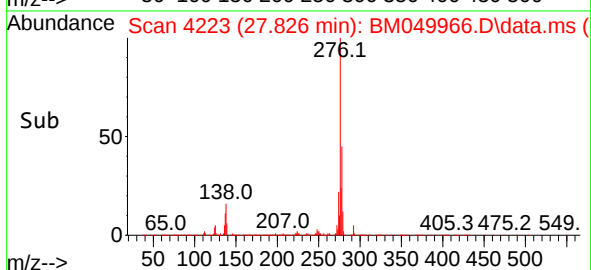
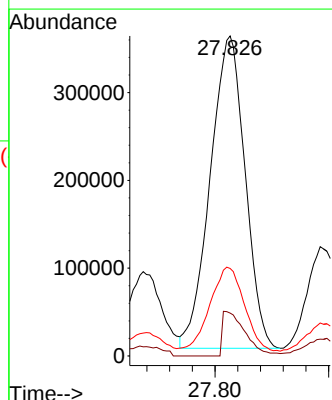
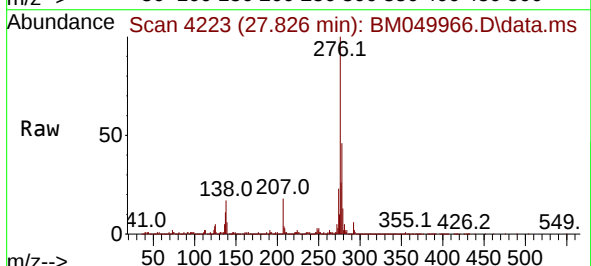
Tgt Ion:278 Resp: 1514092

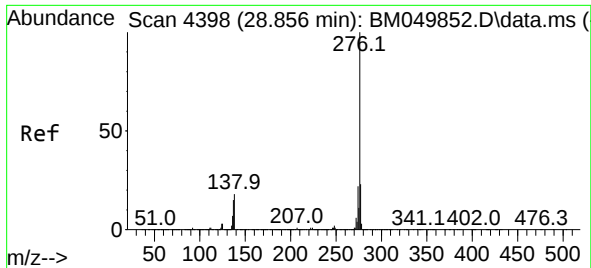
Ion Ratio Lower Upper

278 100

139 13.4 10.6 15.8

279 27.3 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 50.581 ng
 RT: 28.862 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: BM049966.D
 Acq: 18 Apr 2025 15:08

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-01

Tgt Ion:276 Resp: 5536704
 Ion Ratio Lower Upper
 276 100
 277 24.2 18.7 28.1
 138 17.0 14.6 21.8

