

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
 Data File : BM049871.D
 Acq On : 09 Apr 2025 17:03
 Operator : RC/JU
 Sample : Q1712-01DL2 50X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL2

Quant Time: Apr 09 17:42:34 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)

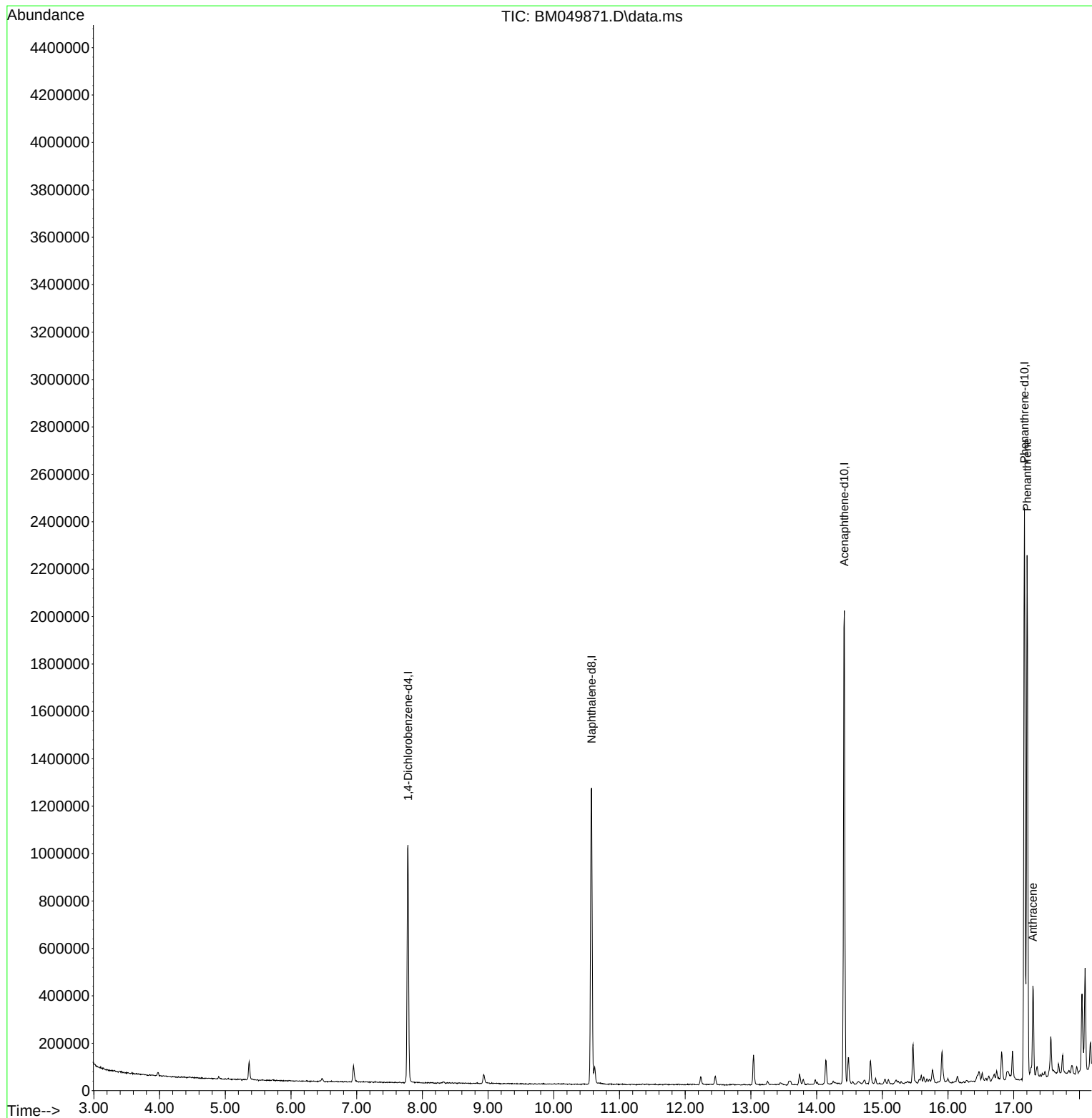
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.781	152	308569	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1104161	20.000	ng	0.00
39) Acenaphthene-d10	14.421	164	735135	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1424172	20.000	ng	0.00
76) Chrysene-d12	21.397	240	1366865	20.000	ng	0.00
86) Perylene-d12	24.397	264	1468519	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	34800	1.915	ng	0.00
7) Phenol-d6	6.951	99	42034	1.859	ng	0.00
23) Nitrobenzene-d5	8.934	82	25482	1.285	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	18096	1.692	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	67361	1.243	ng	0.00
79) Terphenyl-d14	19.786	244	91784	1.258	ng	0.00
Target Compounds						
						Qvalue
71) Phenanthrene	17.204	178	1334833	17.096	ng	100
72) Anthracene	17.292	178	250896	3.261	ng	99
75) Fluoranthene	19.221	202	1711967	17.833	ng	99
78) Pyrene	19.580	202	1566993	16.634	ng	100
81) Benzo(a)anthracene	21.380	228	834995	9.192	ng	99
83) Chrysene	21.444	228	831753	9.631	ng	98
87) Indeno(1,2,3-cd)pyrene	27.779	276	391187	3.574	ng	98
88) Benzo(b)fluoranthene	23.456	252	972601	10.370	ng	99
89) Benzo(k)fluoranthene	23.509	252	533000m	5.864	ng	
90) Benzo(a)pyrene	24.256	252	604097	7.330	ng	98
92) Benzo(g,h,i)perylene	28.832	276	363735	3.948	ng	95

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

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Instrument :
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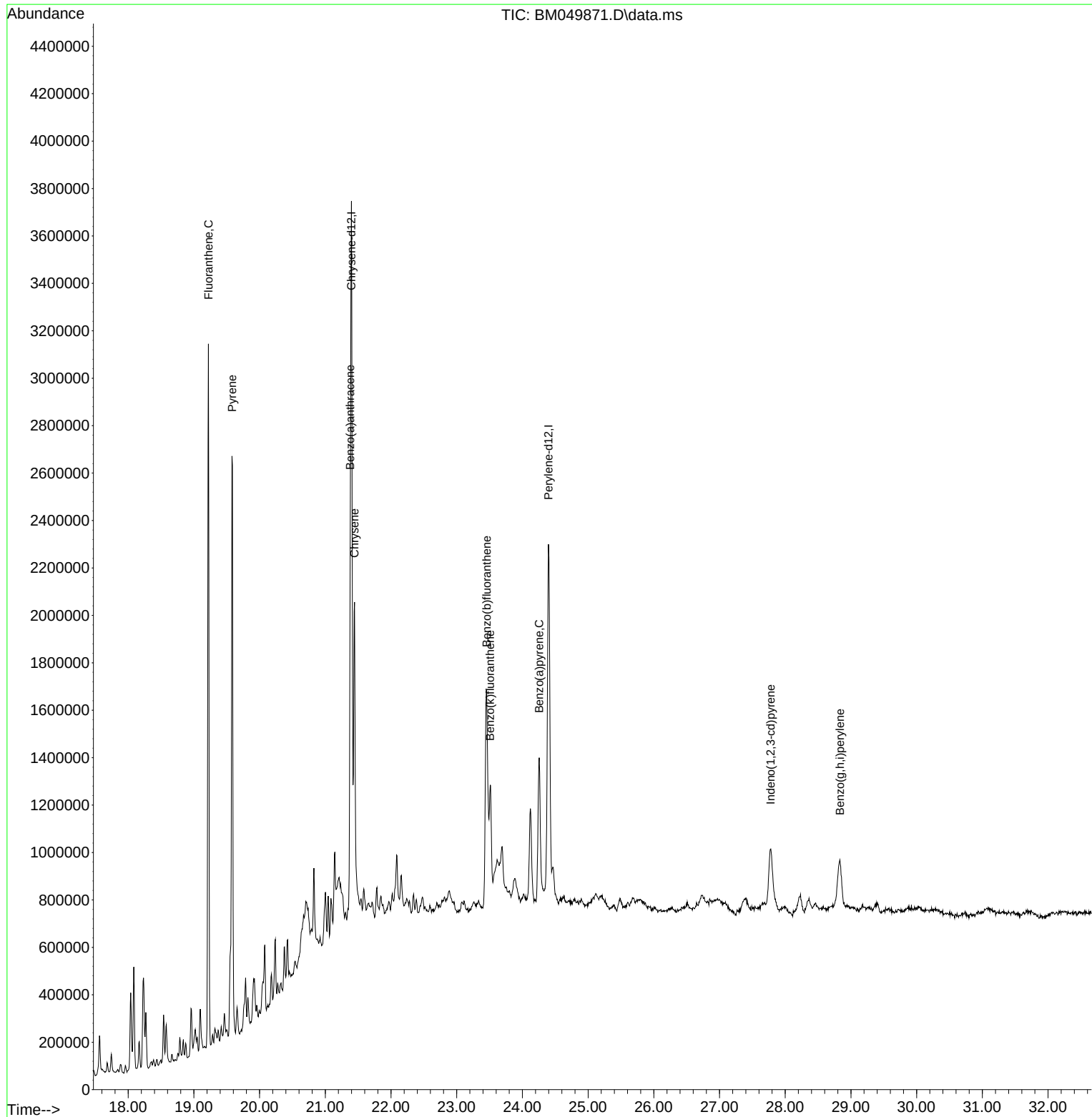
Quant Time: Apr 09 17:42:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

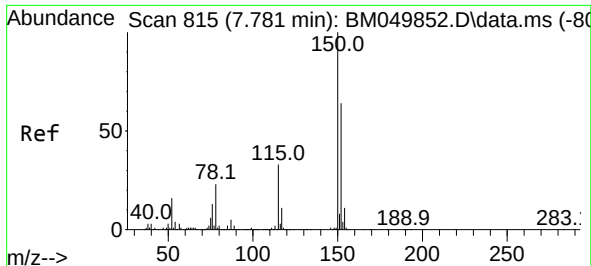


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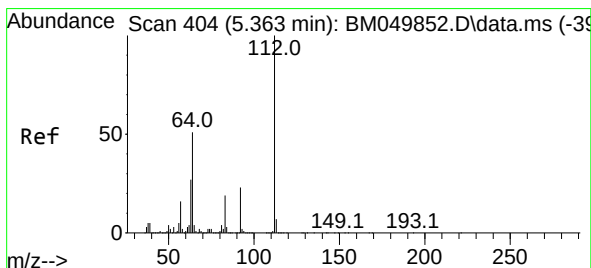
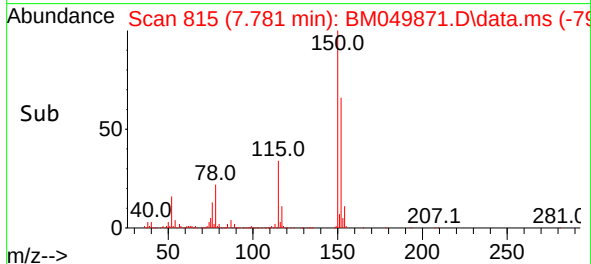
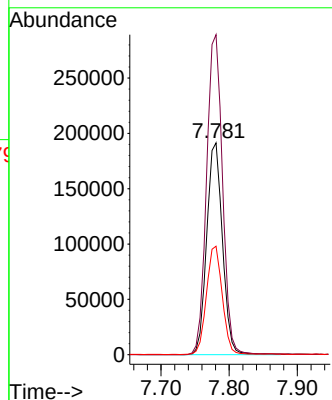
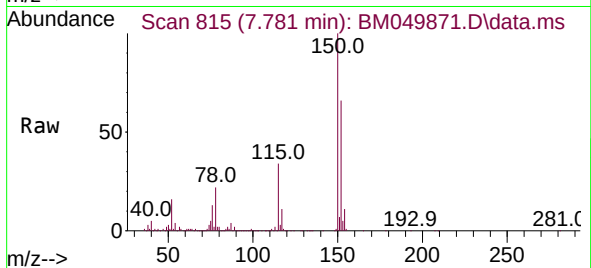




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.781 min Scan# 815
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

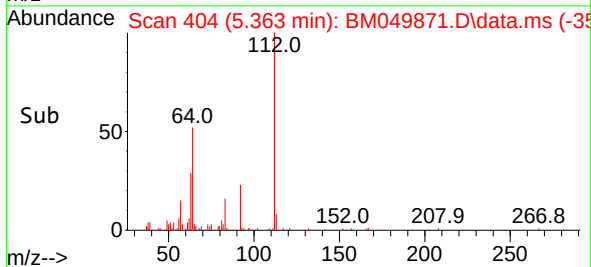
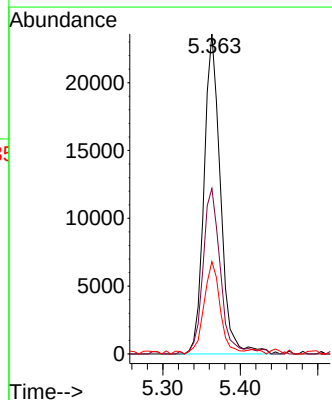
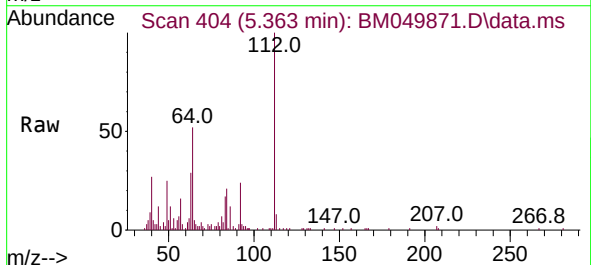
Instrument :
BNA_M
ClientSampleId :
Z-05ADL2

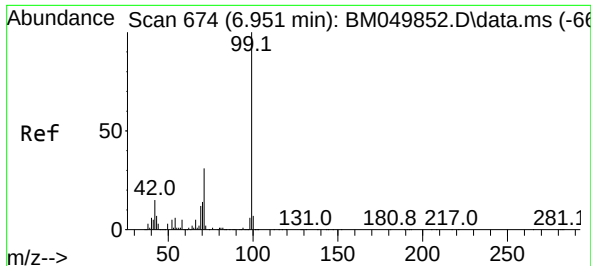
Tgt Ion:152 Resp: 308569
Ion Ratio Lower Upper
152 100
150 151.1 124.3 186.5
115 51.2 41.1 61.7



#5
2-Fluorophenol
Concen: 1.915 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

Tgt Ion:112 Resp: 34800
Ion Ratio Lower Upper
112 100
64 51.7 41.0 61.6
63 28.8 21.5 32.3

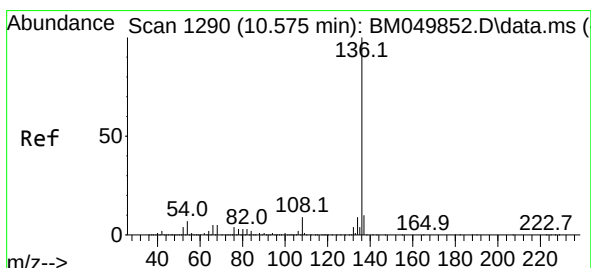
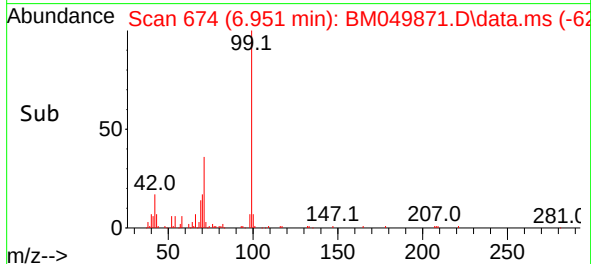
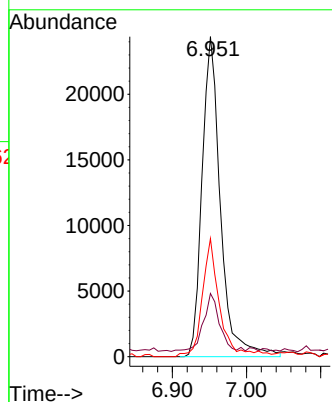
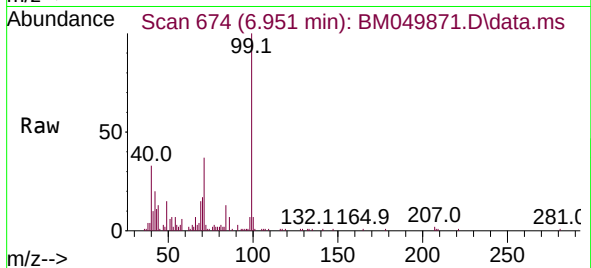




#7
Phenol-d6
Concen: 1.859 ng
RT: 6.951 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

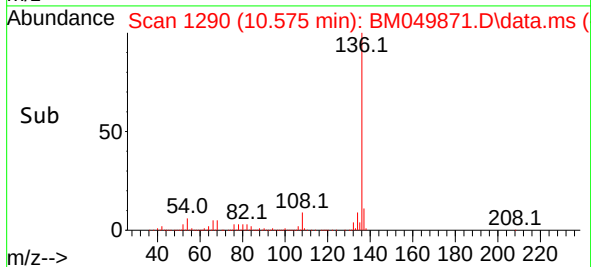
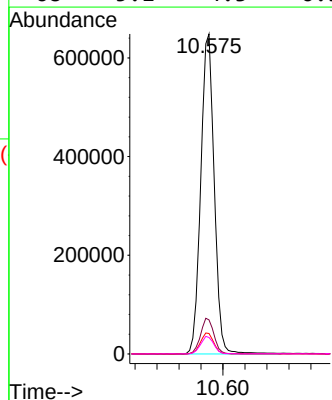
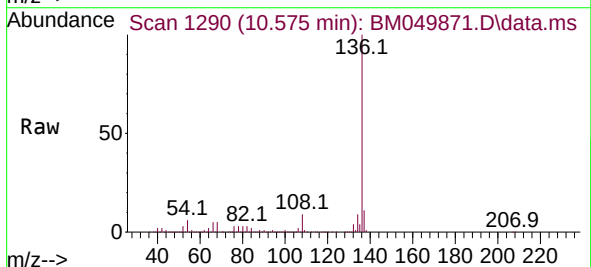
Instrument :
BNA_M
ClientSampleId :
Z-05ADL2

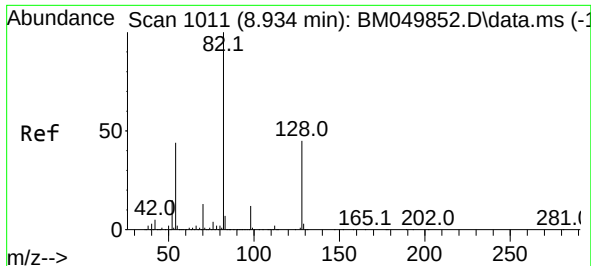
Tgt Ion: 99 Resp: 42034
Ion Ratio Lower Upper
99 100
42 19.7 12.1 18.1#
71 36.9 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

Tgt Ion: 136 Resp: 1104161
Ion Ratio Lower Upper
136 100
137 10.6 8.4 12.6
54 6.4 5.3 7.9
68 5.1 4.3 6.5

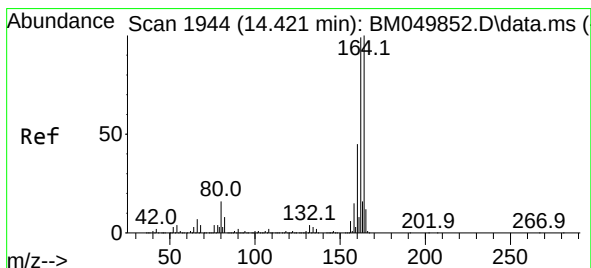
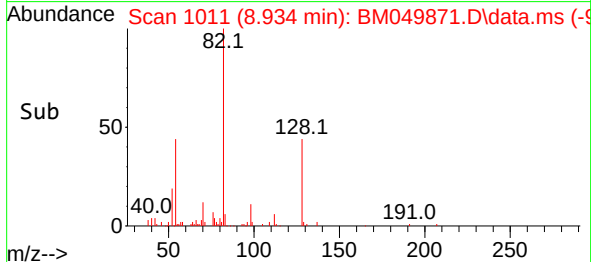
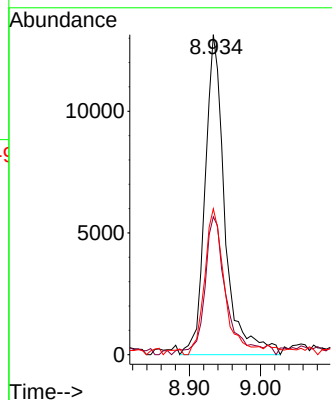
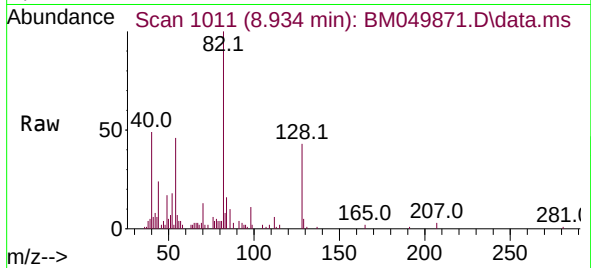




#23
Nitrobenzene-d5
Concen: 1.285 ng
RT: 8.934 min Scan# 1011
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

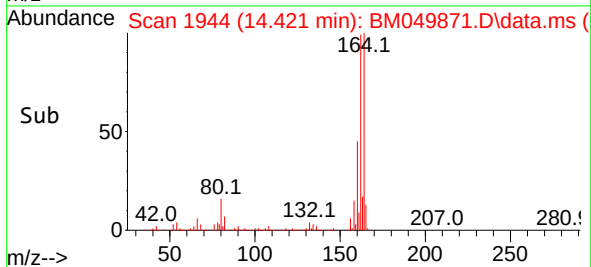
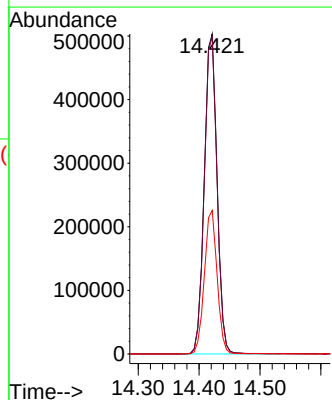
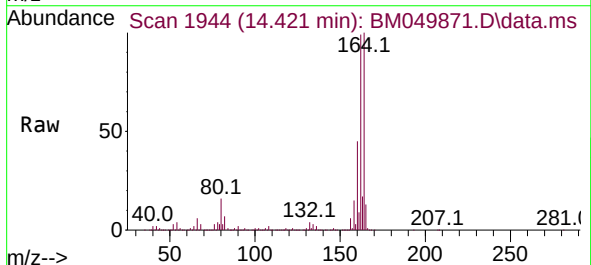
Instrument :
BNA_M
ClientSampleId :
Z-05ADL2

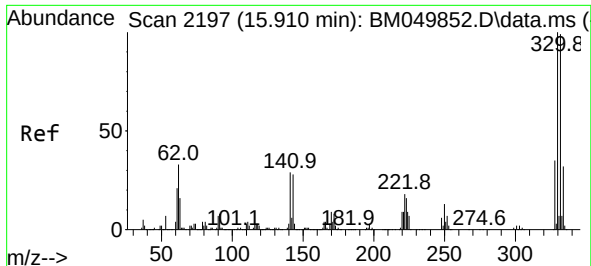
Tgt Ion:	82	Resp:	25482
Ion	Ratio	Lower	Upper
82	100		
128	43.1	36.2	54.2
54	45.6	35.0	52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.421 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

Tgt Ion:	164	Resp:	735135
Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.4	119.0
160	44.8	36.2	54.2

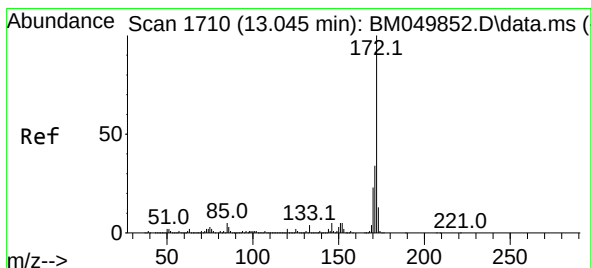
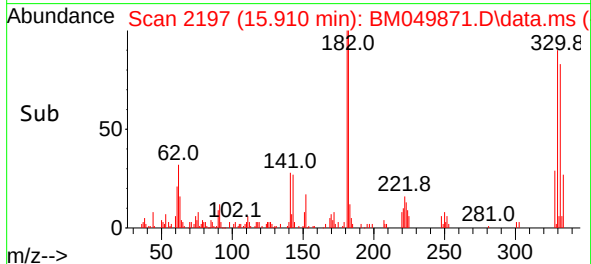
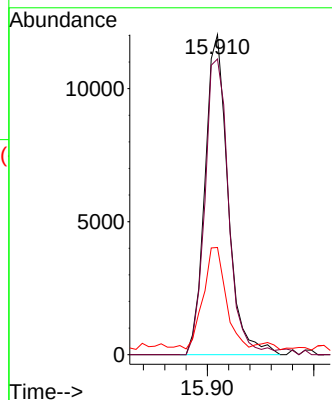
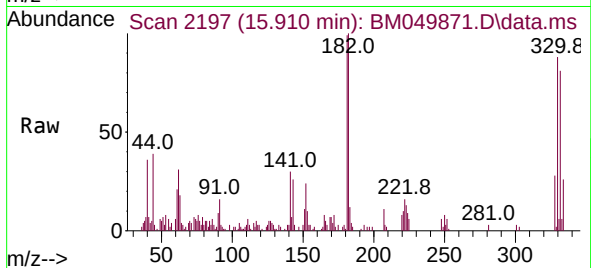




#42
2,4,6-Tribromophenol
Concen: 1.692 ng
RT: 15.910 min Scan# 2197
Delta R.T. -0.000 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

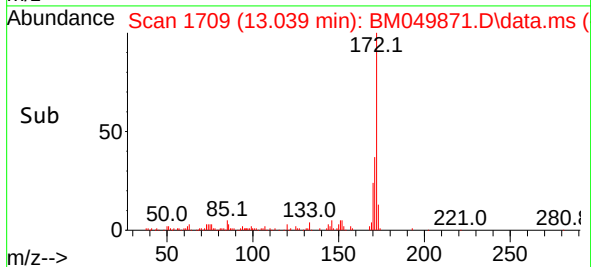
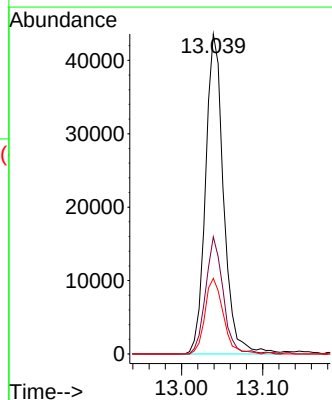
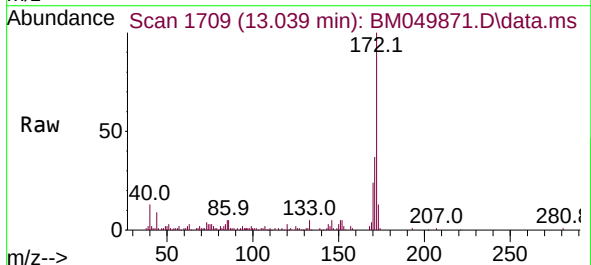
Instrument :
BNA_M
ClientSampleId :
Z-05ADL2

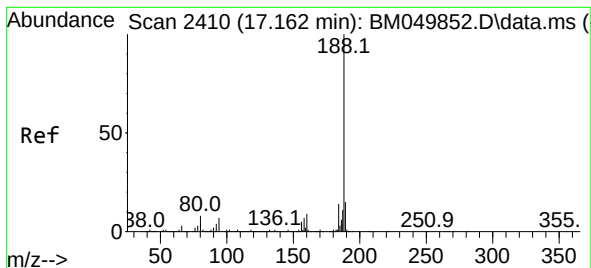
Tgt Ion:330 Resp: 18096
Ion Ratio Lower Upper
330 100
332 96.5 78.0 117.0
141 36.3 23.5 35.3#



#45
2-Fluorobiphenyl
Concen: 1.243 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.006 min
Lab File: BM049871.D
Acq: 09 Apr 2025 17:03

Tgt Ion:172 Resp: 67361
Ion Ratio Lower Upper
172 100
171 36.6 27.4 41.2
170 23.6 18.6 28.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.162 min Scan# 2410

Delta R.T. -0.000 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

Instrument :

BNA_M

ClientSampleId :

Z-05ADL2

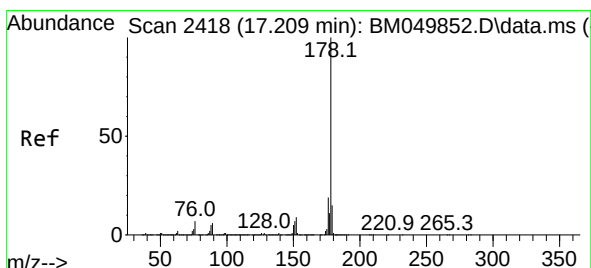
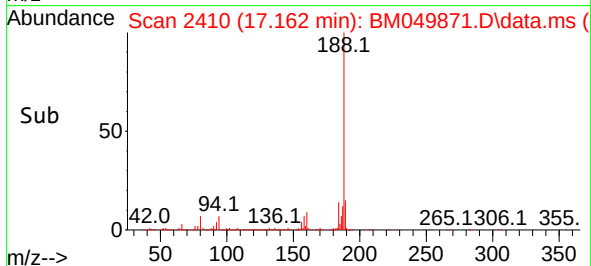
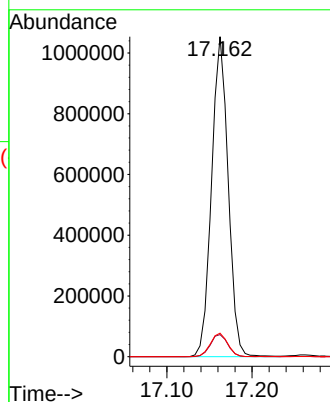
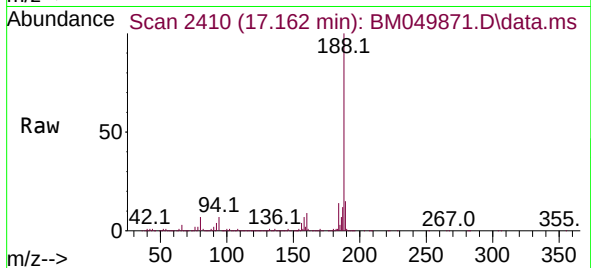
Tgt Ion:188 Resp: 1424172

Ion Ratio Lower Upper

188 100

94 6.9 5.8 8.6

80 7.4 6.4 9.6



#71

Phenanthrene

Concen: 17.096 ng

RT: 17.204 min Scan# 2417

Delta R.T. -0.006 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

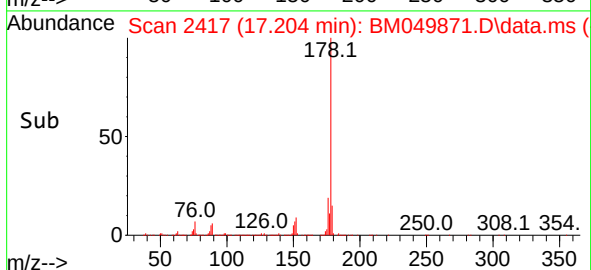
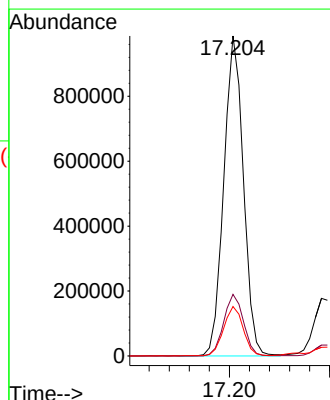
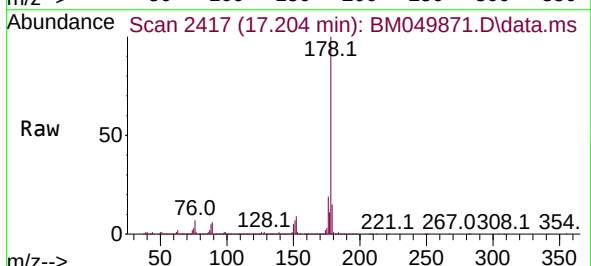
Tgt Ion:178 Resp: 1334833

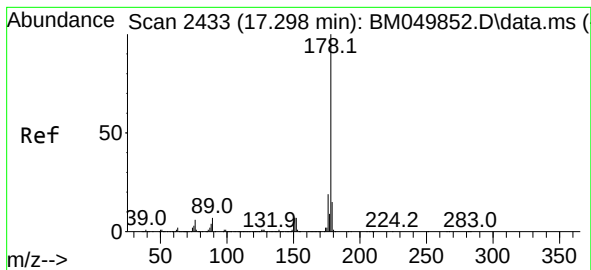
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.5 12.3 18.5





#72

Anthracene

Concen: 3.261 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

Instrument :

BNA_M

ClientSampleId :

Z-05ADL2

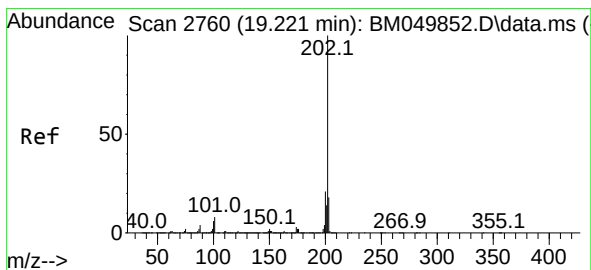
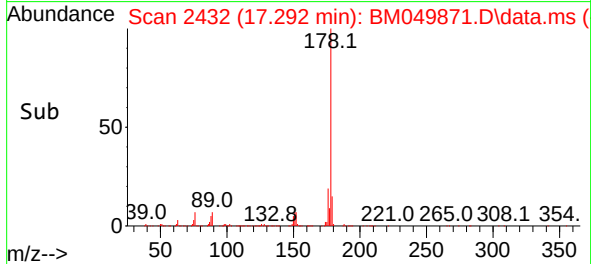
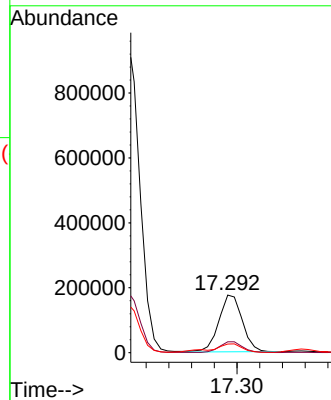
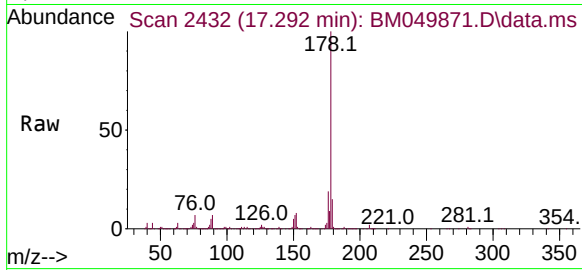
Tgt Ion:178 Resp: 250896

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 15.1 12.4 18.6



#75

Fluoranthene

Concen: 17.833 ng

RT: 19.221 min Scan# 2760

Delta R.T. -0.000 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

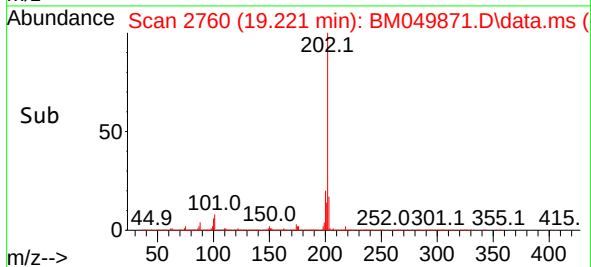
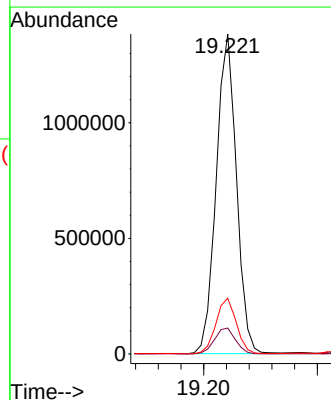
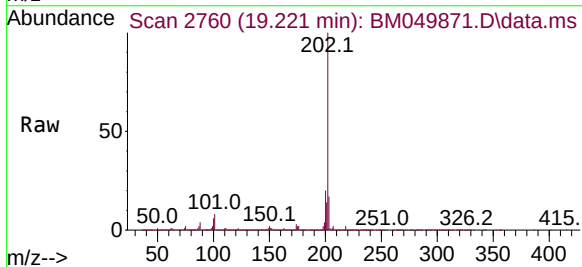
Tgt Ion:202 Resp: 1711967

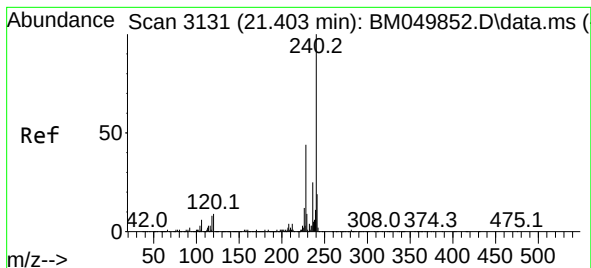
Ion Ratio Lower Upper

202 100

101 8.1 0.0 28.4

203 17.4 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.397 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

Instrument :

BNA_M

ClientSampleId :

Z-05ADL2

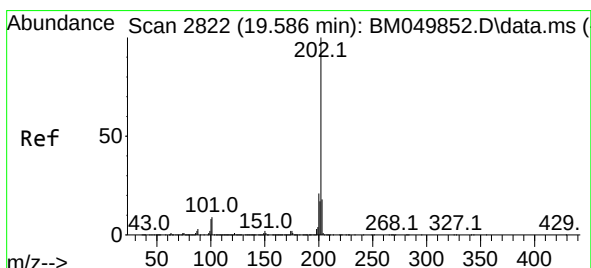
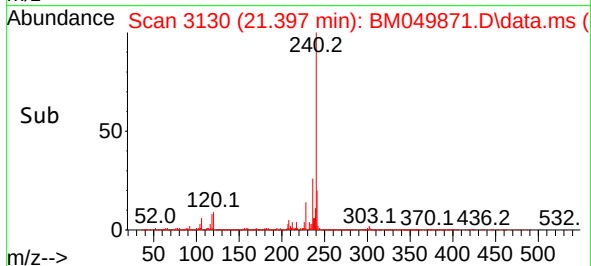
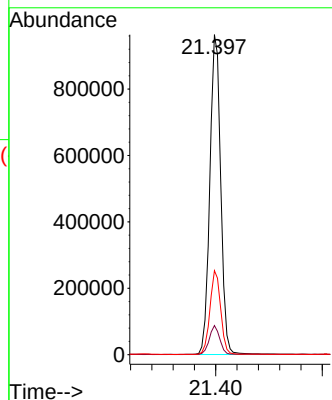
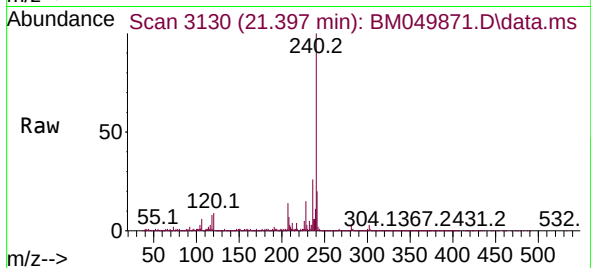
Tgt Ion:240 Resp: 1366865

Ion Ratio Lower Upper

240 100

120 9.1 6.9 10.3

236 26.2 20.4 30.6



#78

Pyrene

Concen: 16.634 ng

RT: 19.580 min Scan# 2821

Delta R.T. -0.006 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

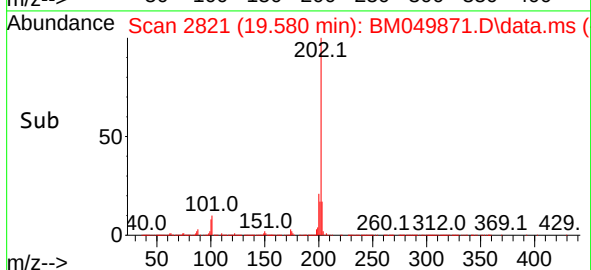
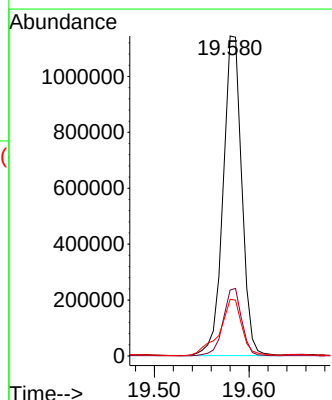
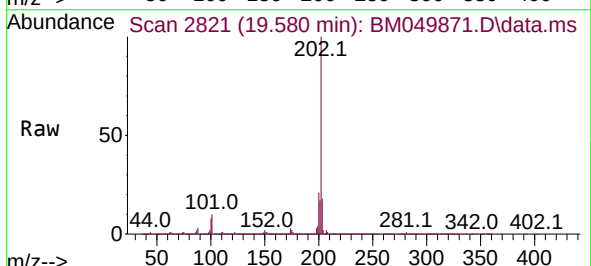
Tgt Ion:202 Resp: 1566993

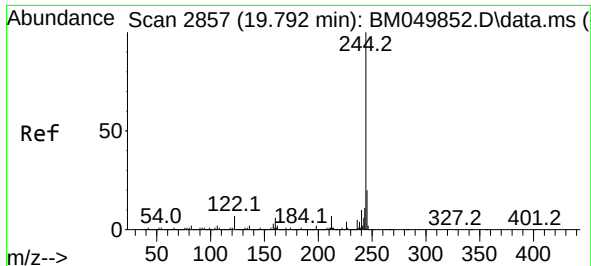
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.7 14.0 21.0

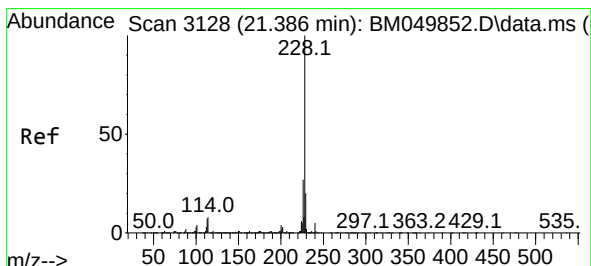
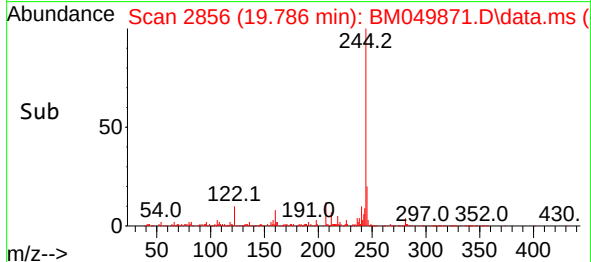
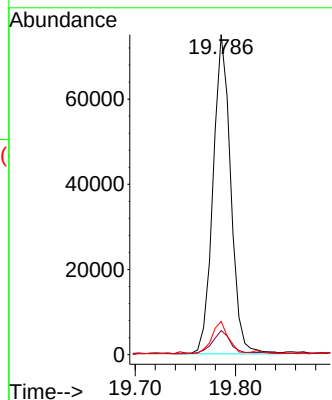
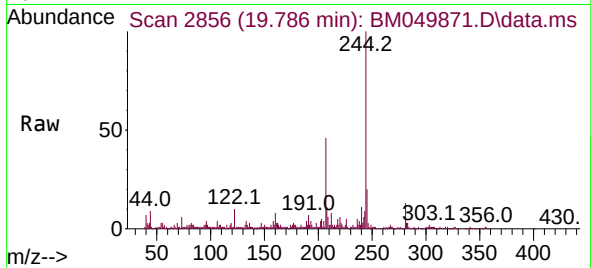




#79
 Terphenyl-d14
 Concen: 1.258 ng
 RT: 19.786 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BM049871.D
 Acq: 09 Apr 2025 17:03

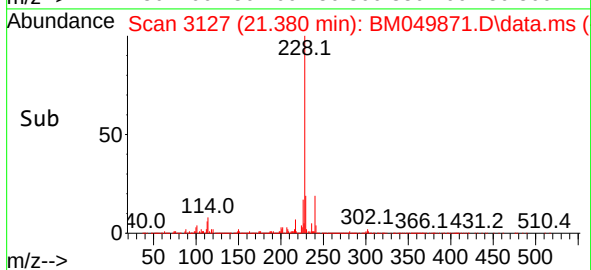
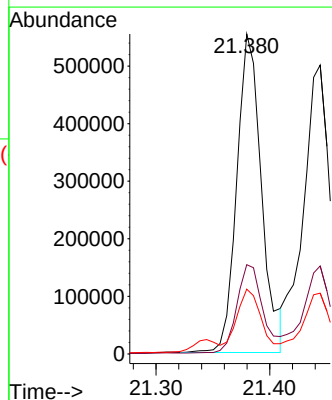
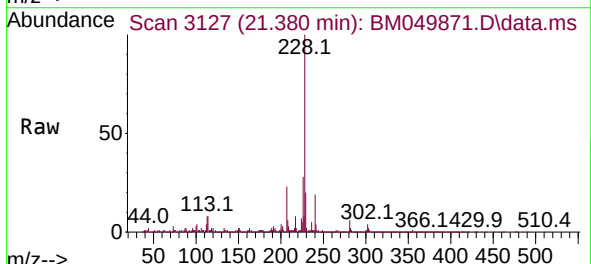
Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL2

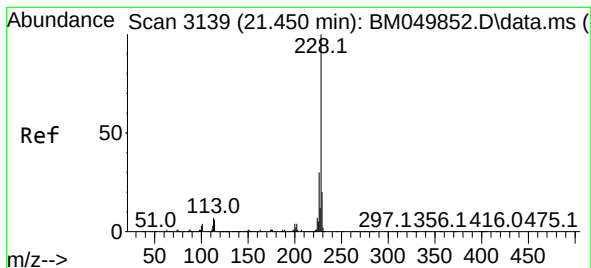
Tgt Ion:244 Resp: 91784
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.5 8.3
 122 10.4 5.4 8.0#



#81
 Benzo(a)anthracene
 Concen: 9.192 ng
 RT: 21.380 min Scan# 3127
 Delta R.T. -0.006 min
 Lab File: BM049871.D
 Acq: 09 Apr 2025 17:03

Tgt Ion:228 Resp: 834995
 Ion Ratio Lower Upper
 228 100
 226 27.9 21.8 32.8
 229 20.3 15.8 23.8





#83

Chrysene

Concen: 9.631 ng

RT: 21.444 min Scan# 31

Delta R.T. -0.006 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

Instrument :

BNA_M

ClientSampleId :

Z-05ADL2

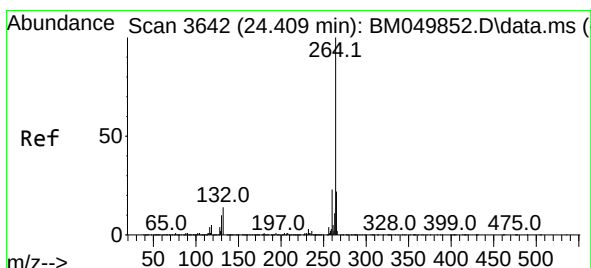
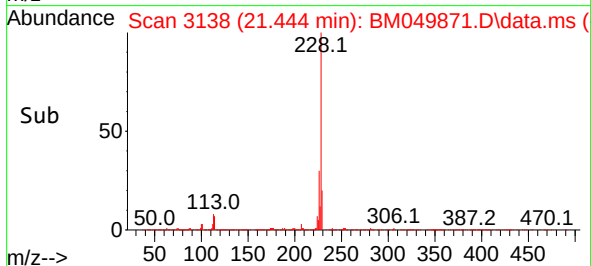
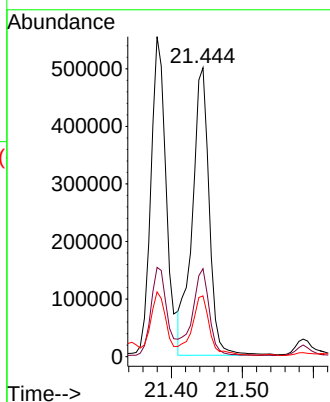
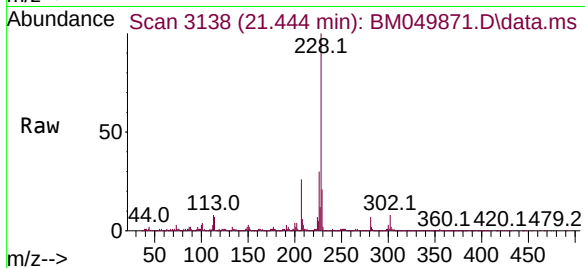
Tgt Ion:228 Resp: 831753

Ion Ratio Lower Upper

228 100

226 30.5 24.1 36.1

229 21.0 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: BM049871.D

Acq: 09 Apr 2025 17:03

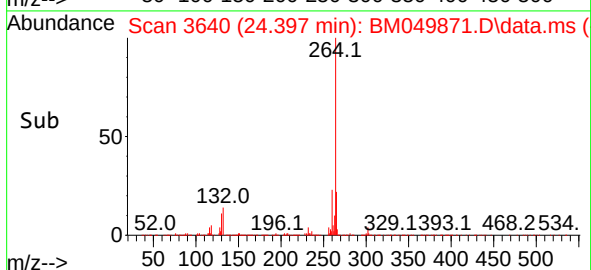
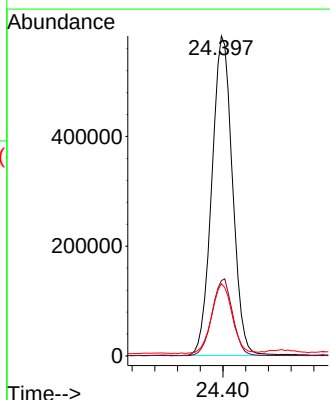
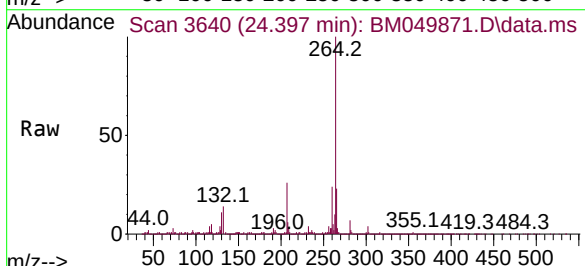
Tgt Ion:264 Resp: 1468519

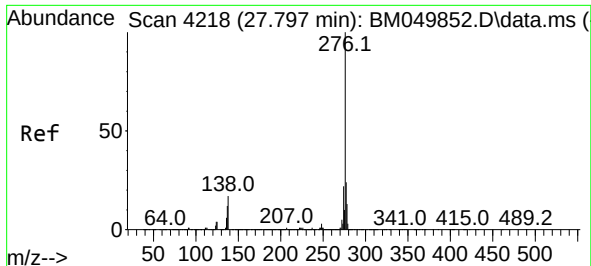
Ion Ratio Lower Upper

264 100

260 23.6 18.6 28.0

265 22.6 17.8 26.8

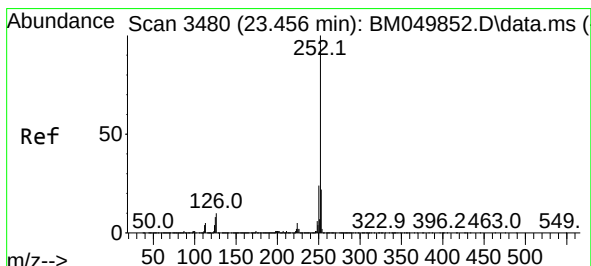
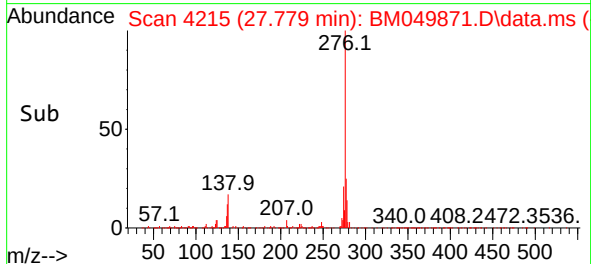
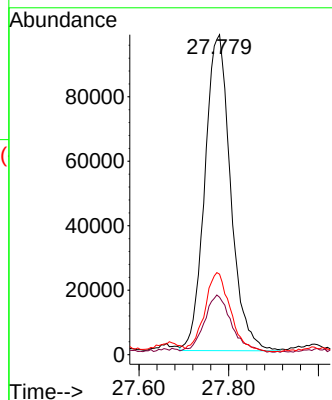
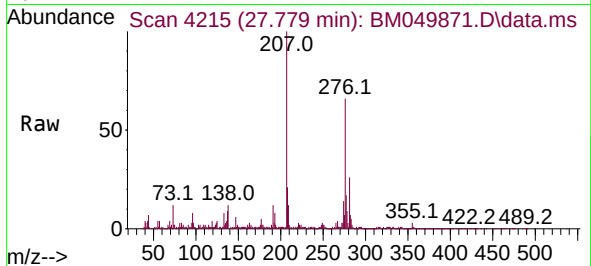




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 3.574 ng
 RT: 27.779 min Scan# 41
 Delta R.T. -0.018 min
 Lab File: BM049871.D
 Acq: 09 Apr 2025 17:03

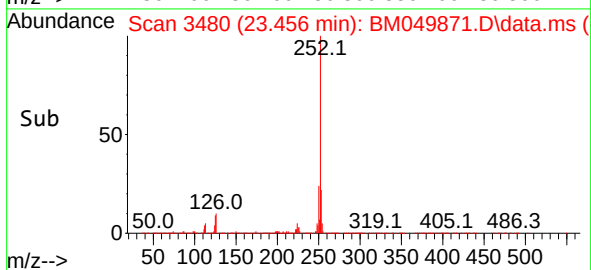
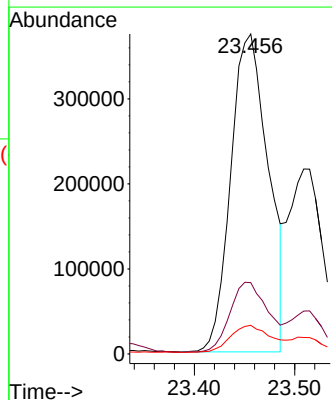
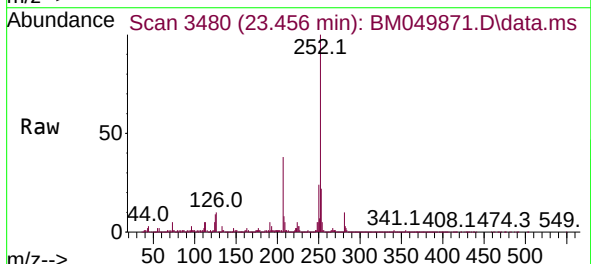
Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL2

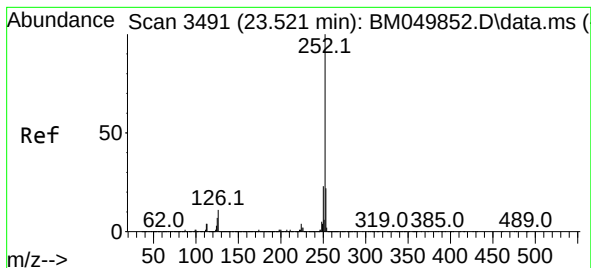
Tgt Ion:276 Resp: 391187
 Ion Ratio Lower Upper
 276 100
 138 19.1 16.8 25.2
 277 24.8 20.1 30.1



#88
 Benzo(b)fluoranthene
 Concen: 10.370 ng
 RT: 23.456 min Scan# 3480
 Delta R.T. -0.000 min
 Lab File: BM049871.D
 Acq: 09 Apr 2025 17:03

Tgt Ion:252 Resp: 972601
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.5 26.3
 125 9.0 6.2 9.4





#89

Benzo(k)fluoranthene

Concen: 5.864 ng m

RT: 23.509 min Scan# 34

Delta R.T. -0.012 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

Instrument :

BNA_M

ClientSampleId :

Z-05ADL2

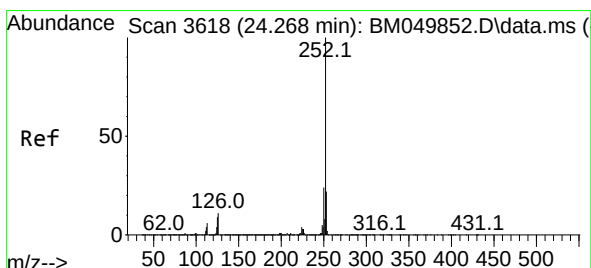
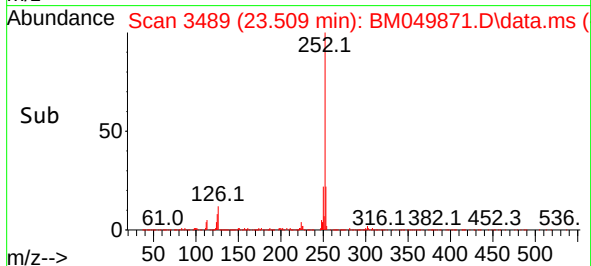
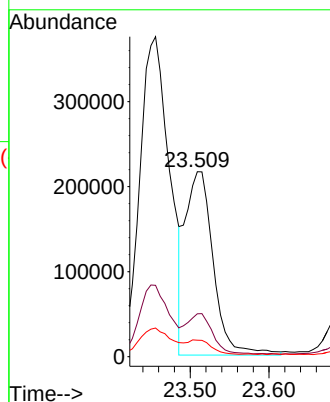
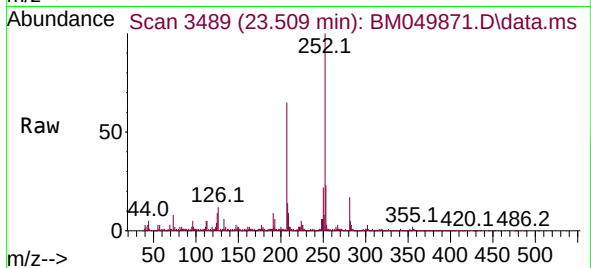
Tgt Ion:252 Resp: 533000

Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.2

125 8.9 5.8 8.8#



#90

Benzo(a)pyrene

Concen: 7.330 ng

RT: 24.256 min Scan# 3616

Delta R.T. -0.012 min

Lab File: BM049871.D

Acq: 09 Apr 2025 17:03

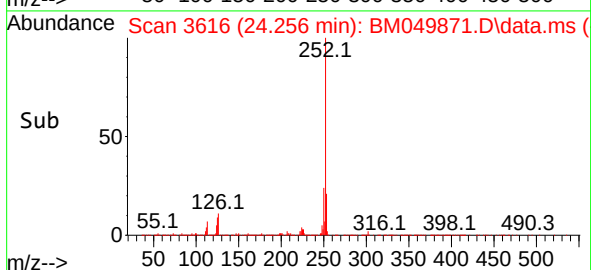
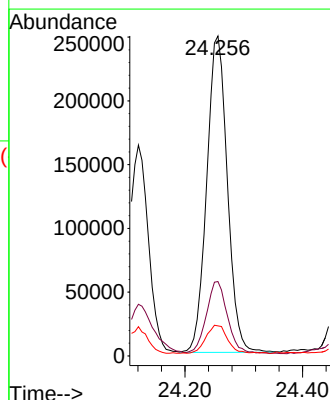
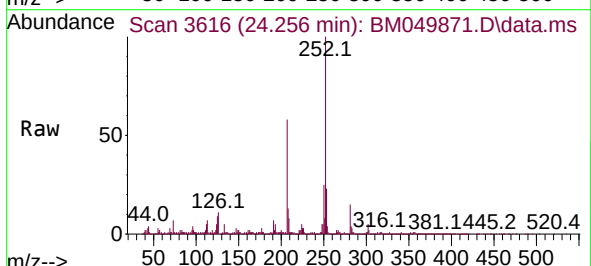
Tgt Ion:252 Resp: 604097

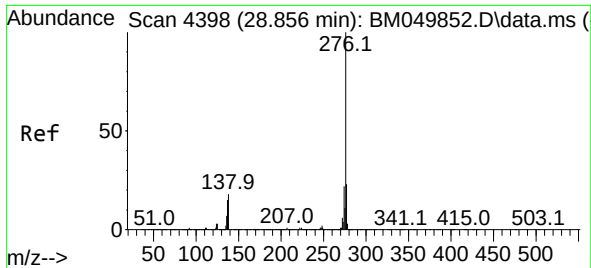
Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

125 9.4 7.0 10.4





#92
 Benzo(g,h,i)perylene
 Concen: 3.948 ng
 RT: 28.832 min Scan# 41
 Delta R.T. -0.024 min
 Lab File: BM049871.D
 Acq: 09 Apr 2025 17:03

Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL2

Tgt Ion:276 Resp: 363735
 Ion Ratio Lower Upper
 276 100
 277 24.8 18.7 28.1
 138 21.4 14.6 21.8

