

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082724\
 Data File : BM047362.D
 Acq On : 27 Aug 2024 13:57
 Operator : RC/JU
 Sample : P3728-01 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-08232024

Quant Time: Aug 27 14:41:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM082624.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 26 18:11:40 2024
 Response via : Initial Calibration

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

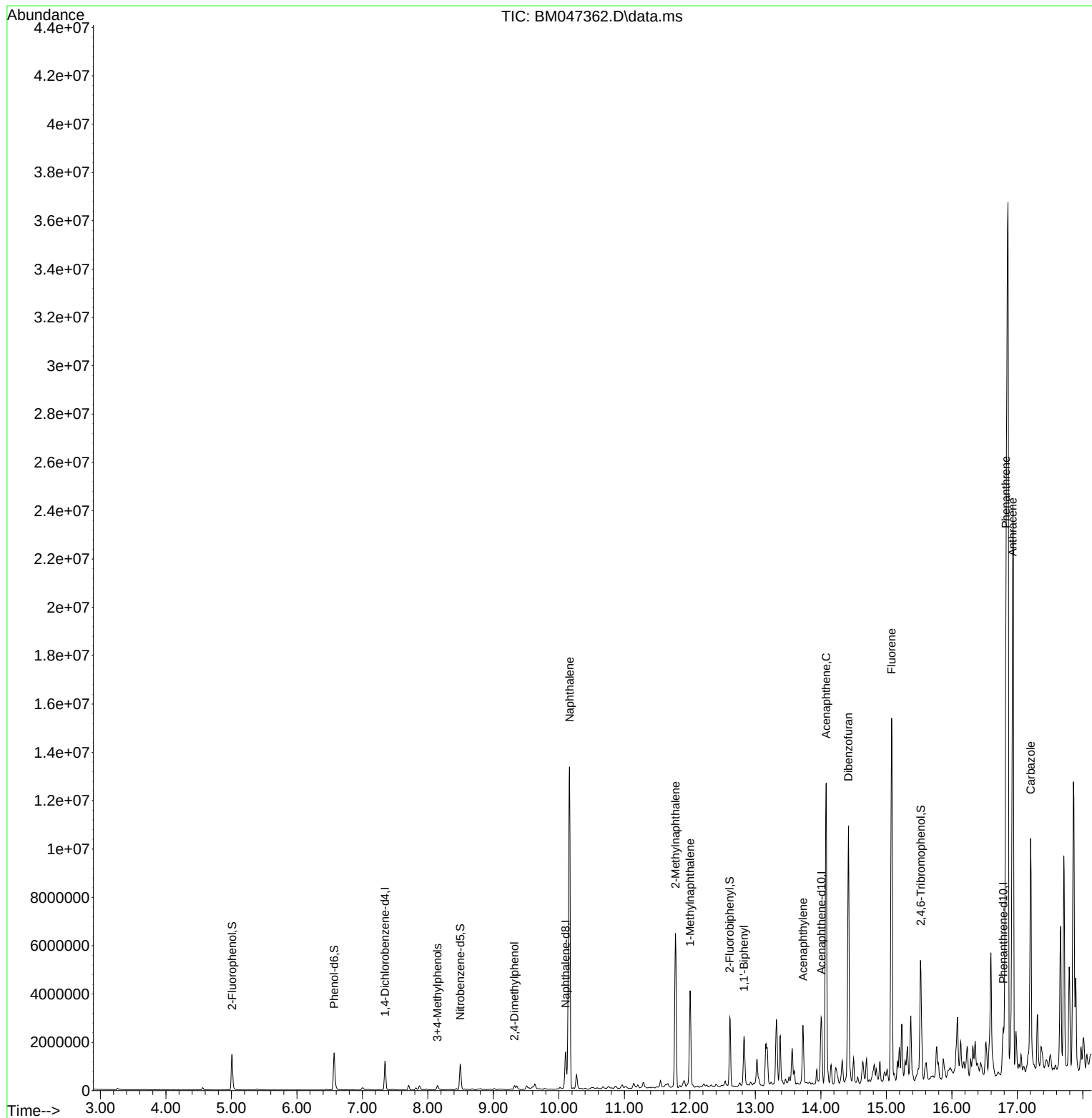
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.345	152	339920	20.000	ng	0.00
21) Naphthalene-d8	10.104	136	1271954	20.000	ng	0.00
39) Acenaphthene-d10	14.010	164	873072	20.000	ng	0.00
64) Phenanthrene-d10	16.786	188	1701537	20.000	ng	0.01
76) Chrysene-d12	21.033	240	1099780	20.000	ng	0.01
86) Perylene-d12	23.744	264	1326456	20.000	ng	# 0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	709580	40.050	ng	0.00
7) Phenol-d6	6.569	99	937422	38.839	ng	0.00
23) Nitrobenzene-d5	8.492	82	613508	26.763	ng	0.00
42) 2,4,6-Tribromophenol	15.527	330	378011	35.887	ng	0.00
45) 2-Fluorobiphenyl	12.610	172	1548227	27.247	ng	0.00
79) Terphenyl-d14	19.445	244	1826411	29.560	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	8.145	107	85433	3.724	ng	95
27) 2,4-Dimethylphenol	9.322	122	74479m	5.690	ng	
31) Naphthalene	10.163	128	11993562	193.056	ng	99
37) 2-Methylnaphthalene	11.780	142	3181153	70.228	ng	99
38) 1-Methylnaphthalene	12.004	142	1914738	42.740	ng	99
46) 1,1'-Biphenyl	12.827	154	1052513	17.265	ng	99
49) Acenaphthylene	13.727	152	1412870	20.349	ng	96
52) Acenaphthene	14.080	154	4864240	110.356	ng	100
55) Dibenzofuran	14.421	168	6776002	95.441	ng	98
58) Fluorene	15.080	166	7608975	132.425	ng	100
71) Phenanthrene	16.827	178	27016297m	326.938	ng	
72) Anthracene	16.927	178	15550071	193.038	ng	94
73) Carbazole	17.204	167	6463625	83.617	ng	99
75) Fluoranthene	18.868	202	24722043m	254.794	ng	
78) Pyrene	19.233	202	23388456m	277.279	ng	
81) Benzo(a)anthracene	21.021	228	14759252	205.789	ng	93
83) Chrysene	21.080	228	13159997	195.064	ng	95
87) Indeno(1,2,3-cd)pyrene	26.797	276	8619028	103.799	ng	# 94
88) Benzo(b)fluoranthene	22.915	252	15905966	205.535	ng	98
89) Benzo(k)fluoranthene	22.962	252	5215358m	71.091	ng	
90) Benzo(a)pyrene	23.644	252	12732540	190.253	ng	96
91) Dibenzo(a,h)anthracene	26.815	278	1967199	29.244	ng	# 91
92) Benzo(g,h,i)perylene	27.744	276	8210822	117.409	ng	99

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

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Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
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SU-03-08232024

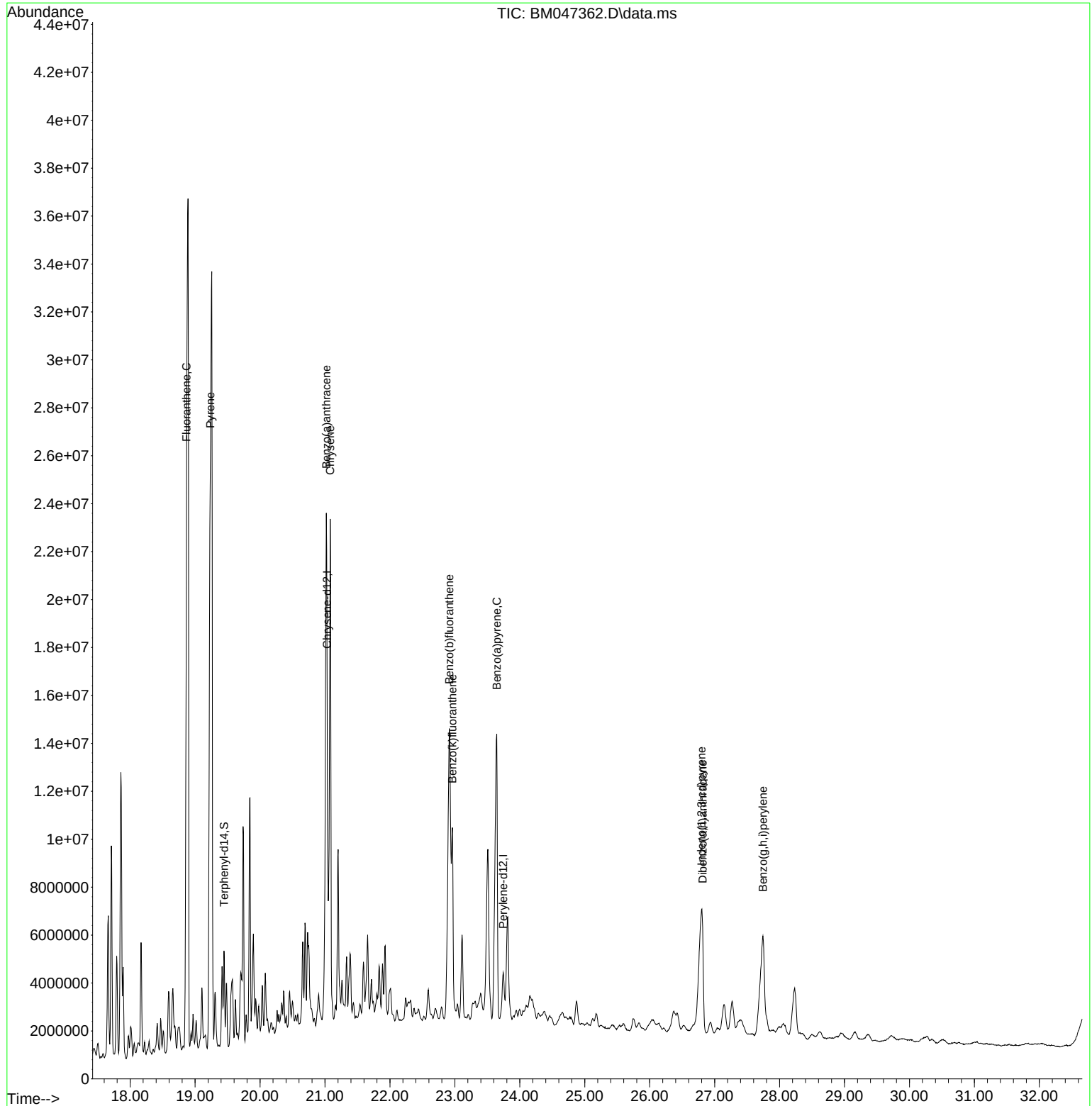
Quant Time: Aug 27 14:41:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM082624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 26 18:11:40 2024
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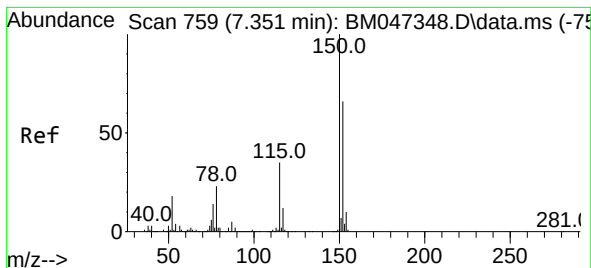


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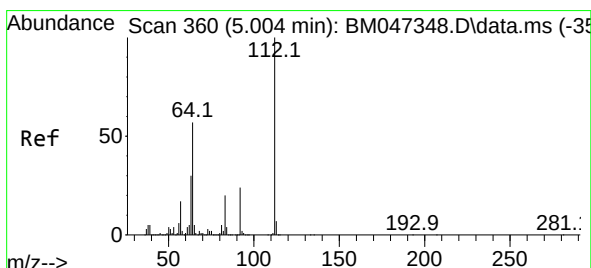
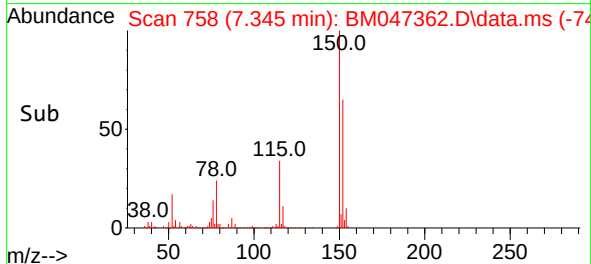
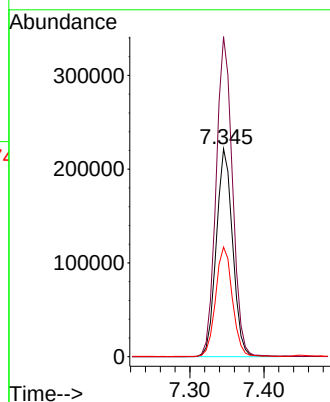
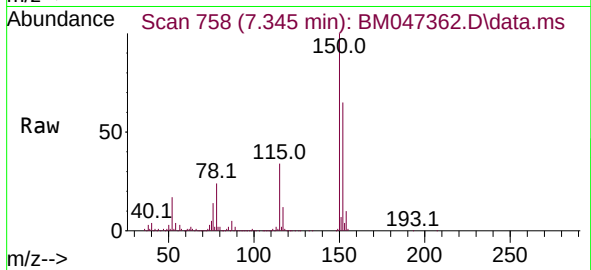




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.345 min Scan# 71
Delta R.T. -0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

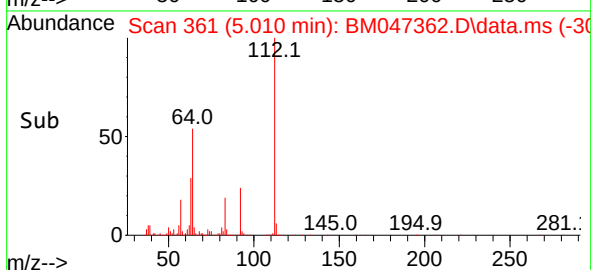
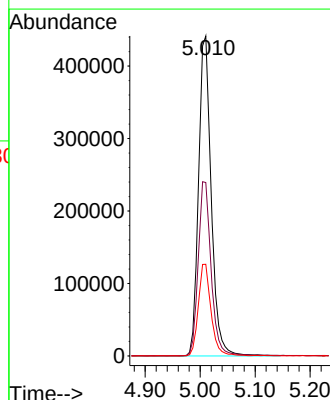
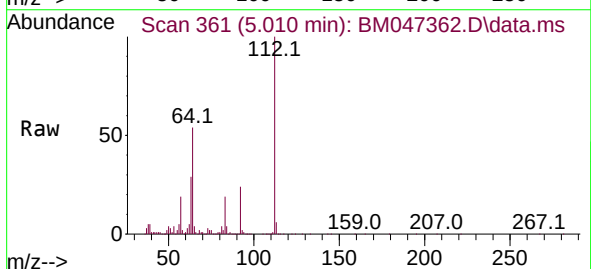
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

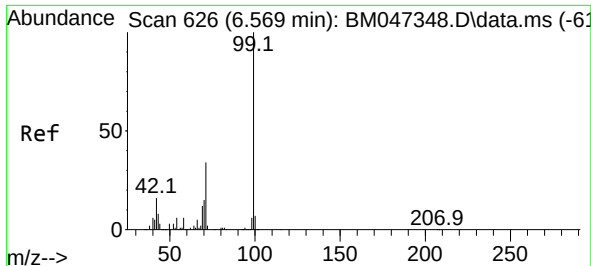
Tgt Ion:152 Resp: 339920
Ion Ratio Lower Upper
152 100
150 154.0 121.3 181.9
115 52.7 42.6 64.0



#5
2-Fluorophenol
Concen: 40.050 ng
RT: 5.010 min Scan# 361
Delta R.T. 0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:112 Resp: 709580
Ion Ratio Lower Upper
112 100
64 54.2 45.7 68.5
63 28.6 23.8 35.8

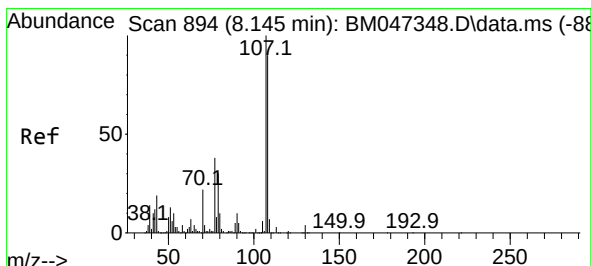
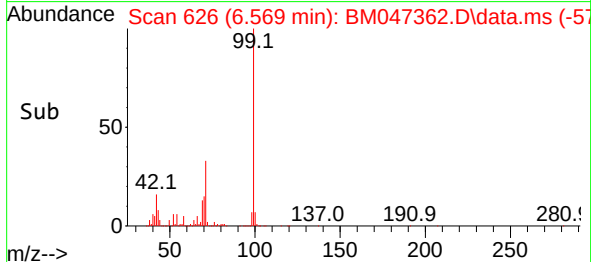
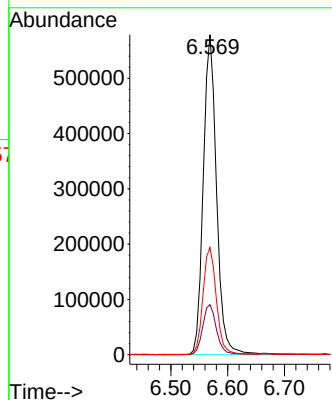
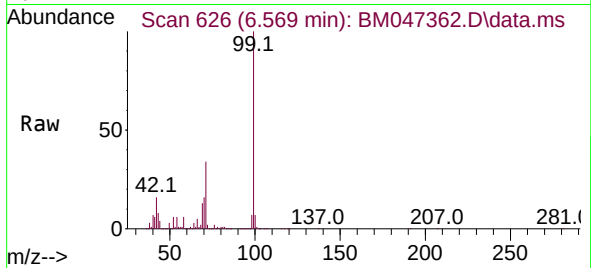




#7
Phenol-d6
Concen: 38.839 ng
RT: 6.569 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

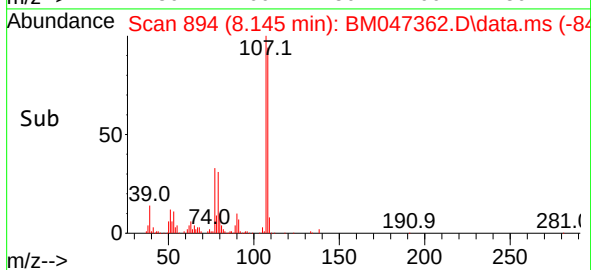
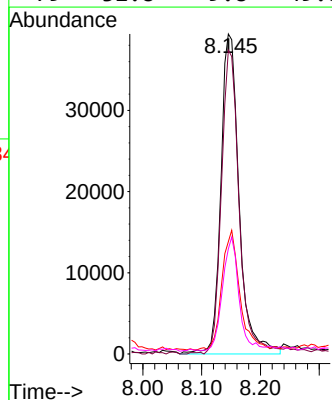
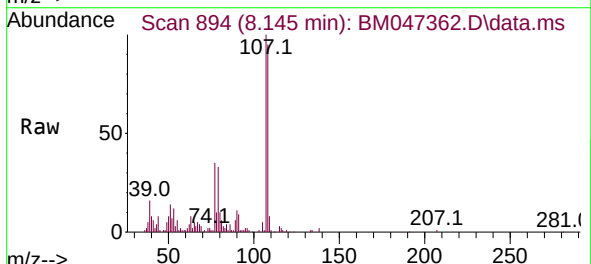
Instrument :
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ClientSampleId :
SU-03-08232024

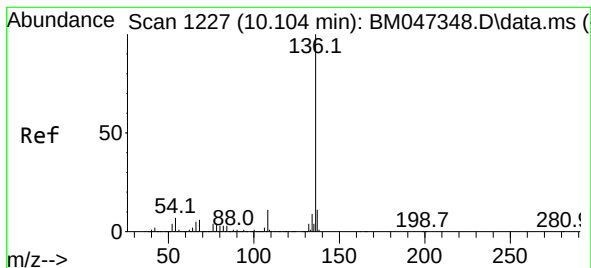
Tgt Ion: 99 Resp: 937422
Ion Ratio Lower Upper
99 100
42 15.7 13.0 19.4
71 33.5 27.5 41.3



#20
3+4-Methylphenols
Concen: 3.724 ng
RT: 8.145 min Scan# 894
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion: 107 Resp: 85433
Ion Ratio Lower Upper
107 100
108 94.9 69.8 109.8
77 35.1 18.0 58.0
79 32.8 9.8 49.8

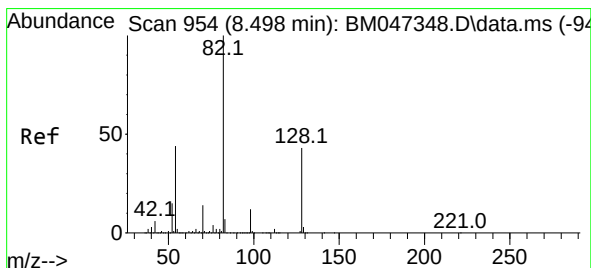
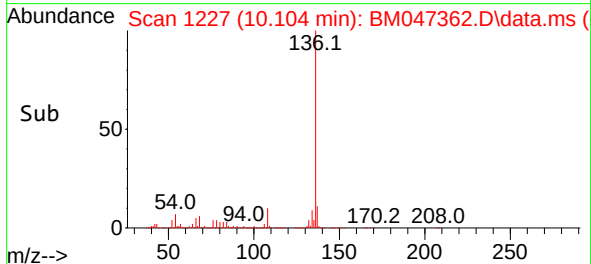
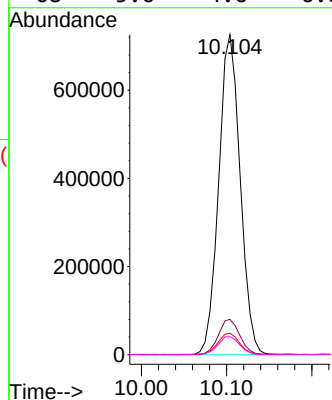
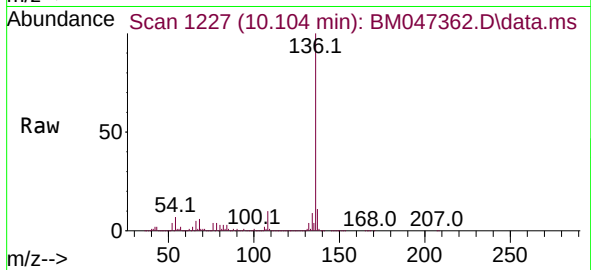




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.104 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

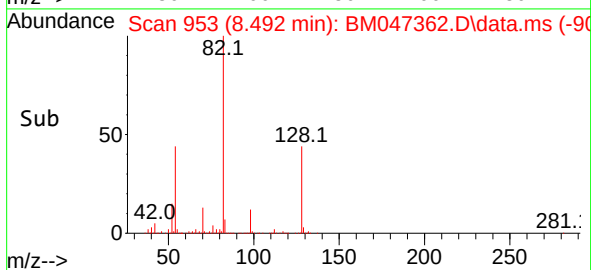
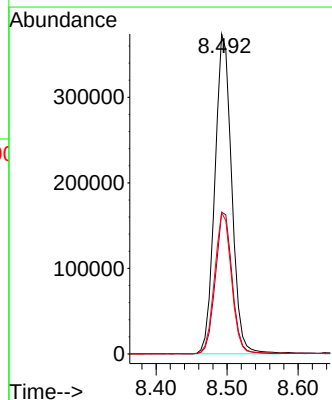
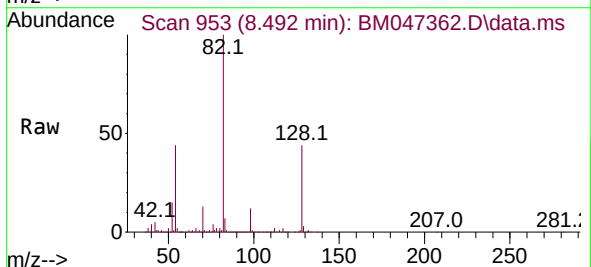
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

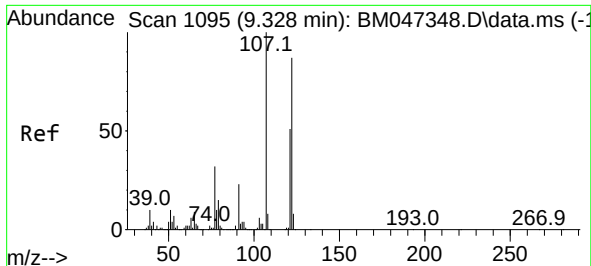
Tgt Ion:136 Resp: 1271954
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.7 5.2 7.8
68 5.6 4.6 6.8



#23
Nitrobenzene-d5
Concen: 26.763 ng
RT: 8.492 min Scan# 953
Delta R.T. -0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion: 82 Resp: 613508
Ion Ratio Lower Upper
82 100
128 44.3 34.6 51.8
54 44.1 35.5 53.3





#27

2,4-Dimethylphenol

Concen: 5.690 ng m

RT: 9.322 min Scan# 1095

Delta R.T. -0.006 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024

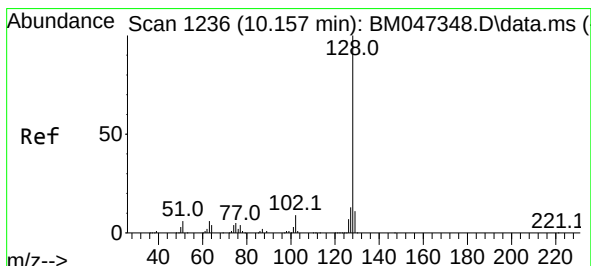
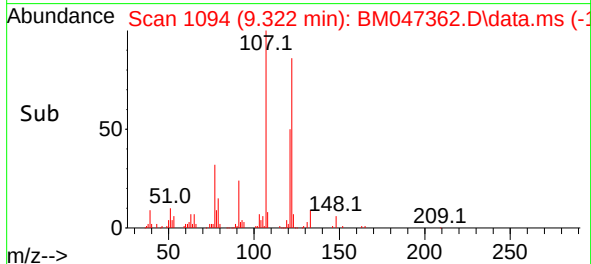
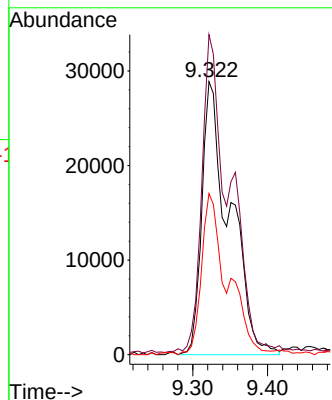
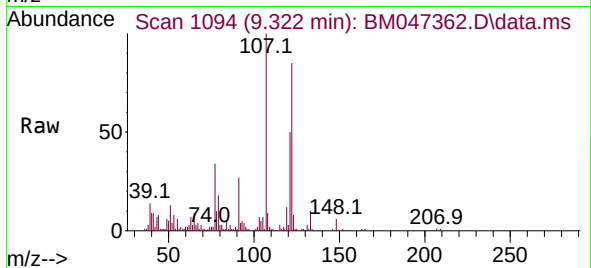
Tgt Ion:122 Resp: 74479

Ion Ratio Lower Upper

122 100

107 117.1 91.9 137.9

121 59.0 47.0 70.6



#31

Naphthalene

Concen: 193.056 ng

RT: 10.163 min Scan# 1237

Delta R.T. 0.006 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

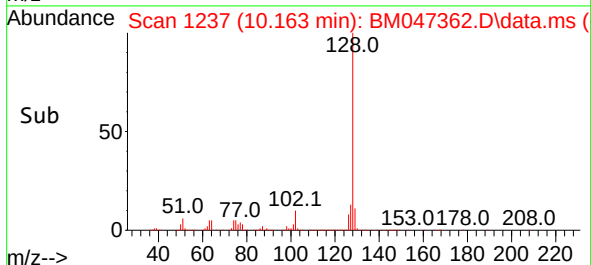
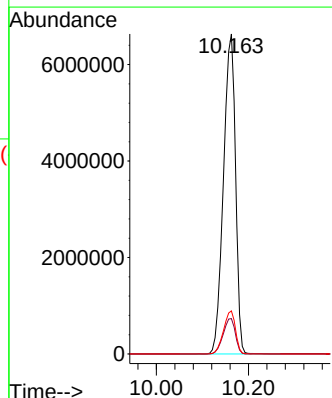
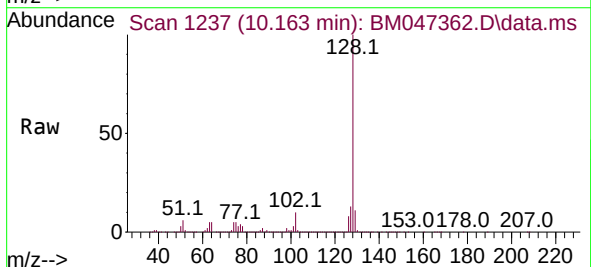
Tgt Ion:128 Resp:11993562

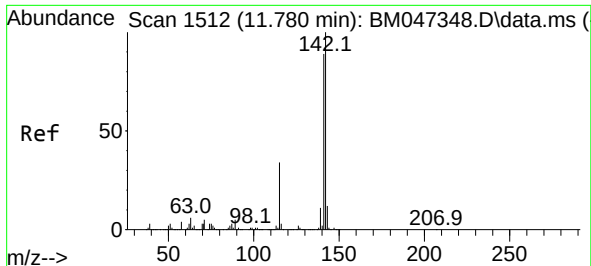
Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

127 13.4 10.4 15.6

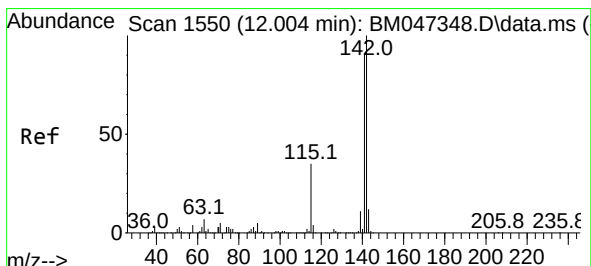
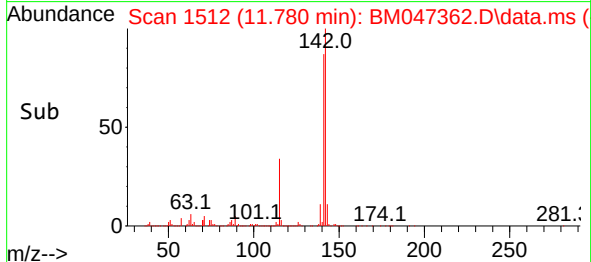
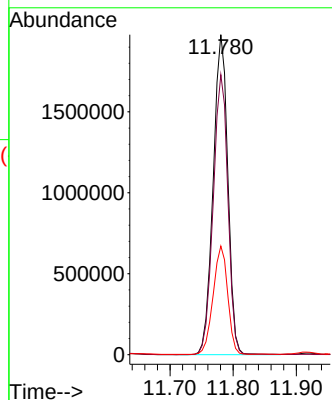
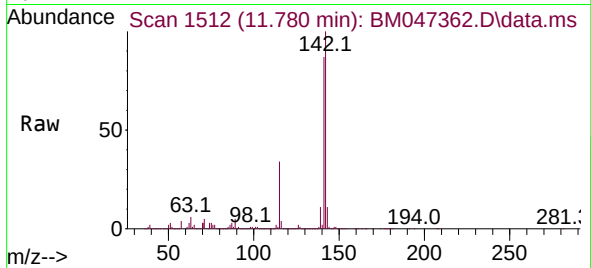




#37
2-Methylnaphthalene
Concen: 70.228 ng
RT: 11.780 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

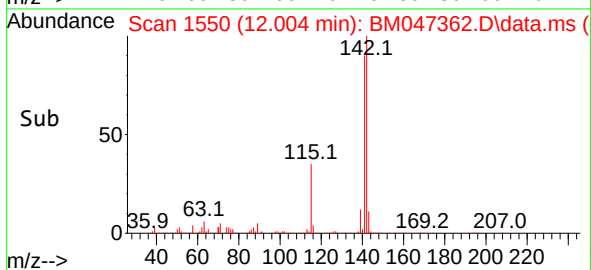
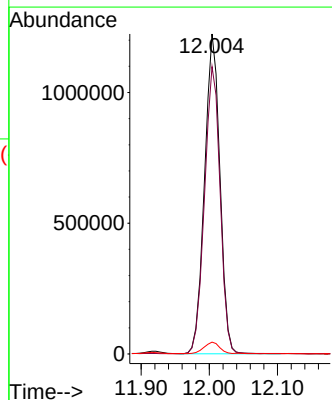
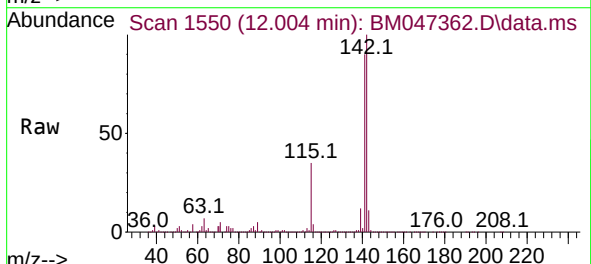
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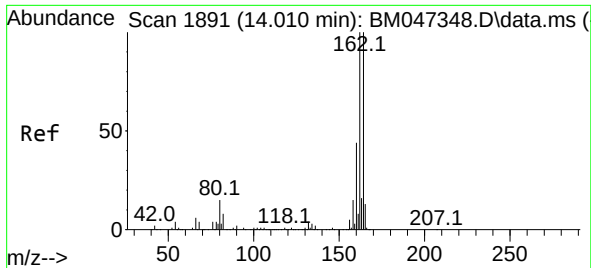
Tgt Ion:142 Resp: 3181153
Ion Ratio Lower Upper
142 100
141 87.5 70.8 106.2
115 33.9 27.5 41.3



#38
1-Methylnaphthalene
Concen: 42.740 ng
RT: 12.004 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:142 Resp: 1914738
Ion Ratio Lower Upper
142 100
141 89.8 72.9 109.3
116 3.7 3.0 4.6

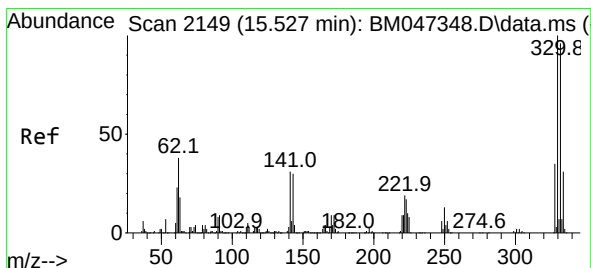
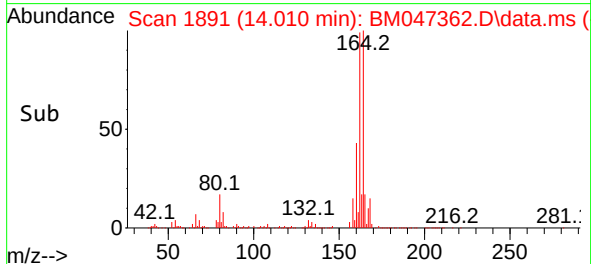
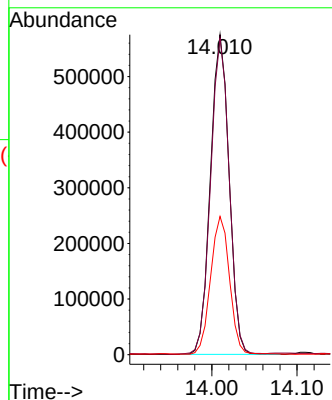
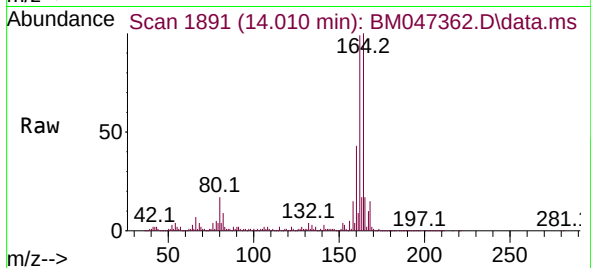




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.010 min Scan# 1891
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

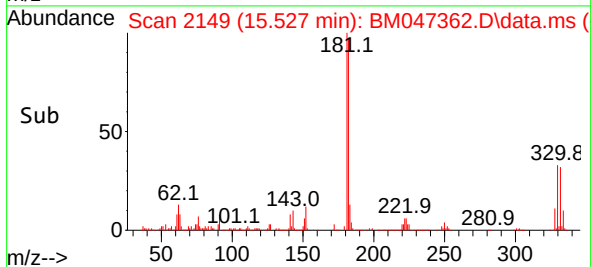
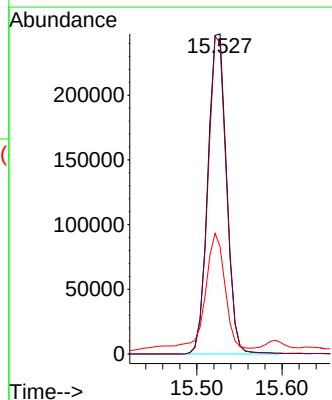
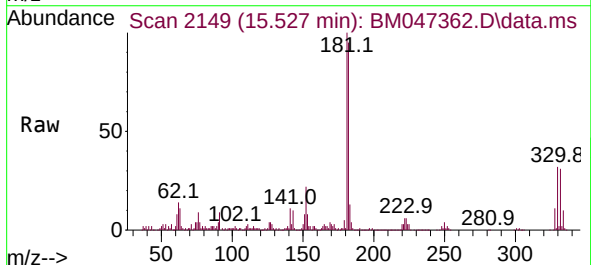
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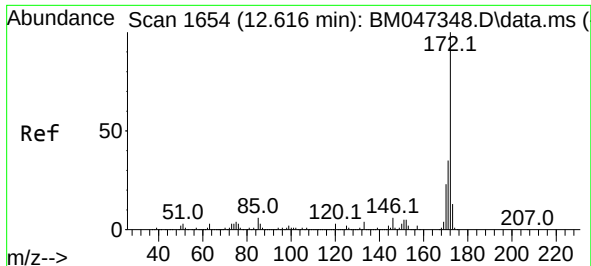
Tgt Ion:164 Resp: 873072
Ion Ratio Lower Upper
164 100
162 99.0 79.7 119.5
160 43.2 34.9 52.3



#42
2,4,6-Tribromophenol
Concen: 35.887 ng
RT: 15.527 min Scan# 2149
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:330 Resp: 378011
Ion Ratio Lower Upper
330 100
332 97.3 77.2 115.8
141 40.9 27.6 41.4

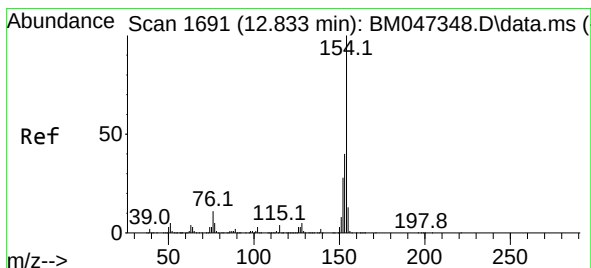
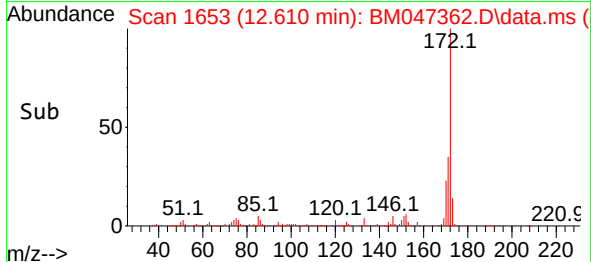
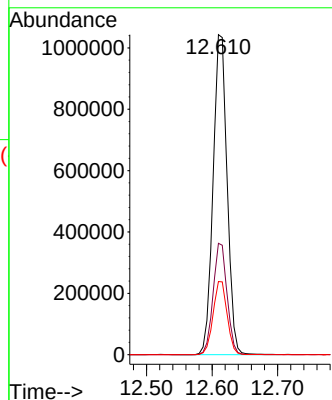
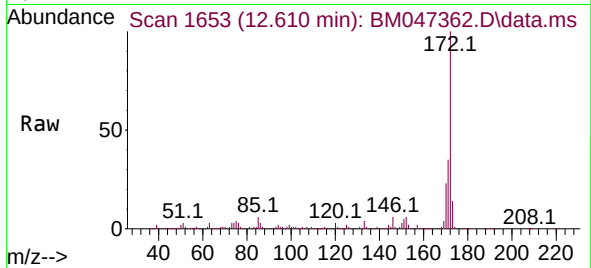




#45
2-Fluorobiphenyl
Concen: 27.247 ng
RT: 12.610 min Scan# 1653
Delta R.T. -0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

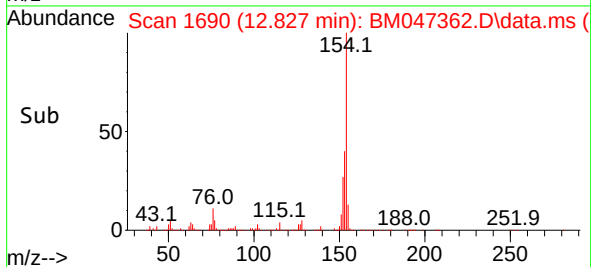
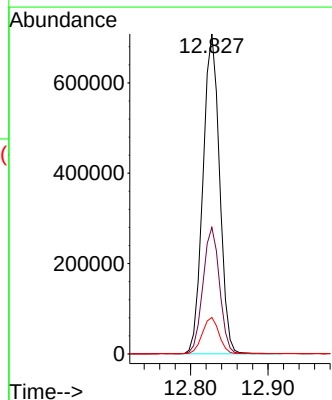
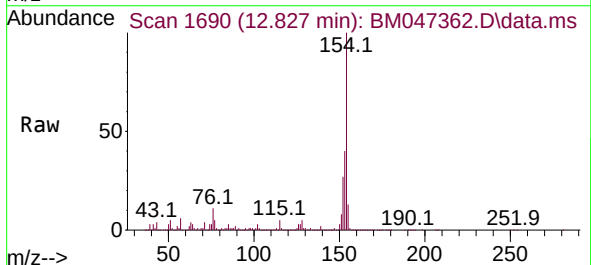
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

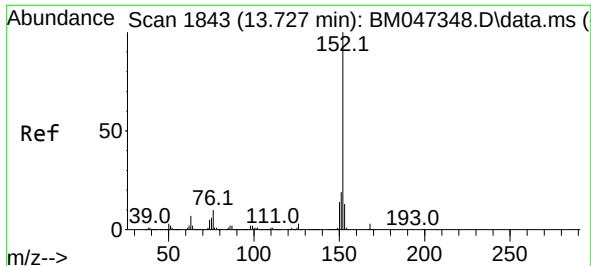
Tgt Ion:172 Resp: 1548227
Ion Ratio Lower Upper
172 100
171 34.8 27.8 41.6
170 22.9 18.5 27.7



#46
1,1'-Biphenyl
Concen: 17.265 ng
RT: 12.827 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:154 Resp: 1052513
Ion Ratio Lower Upper
154 100
153 39.6 20.1 60.1
76 11.4 0.0 31.2

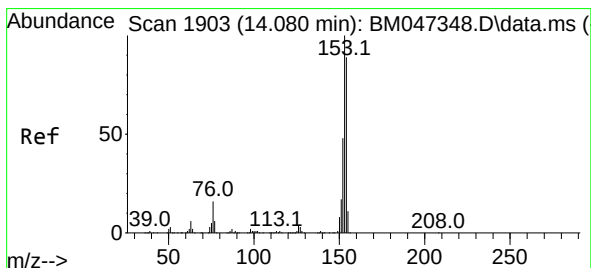
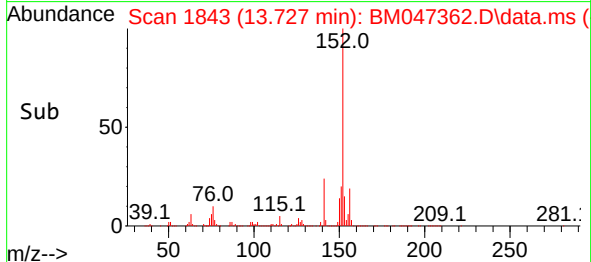
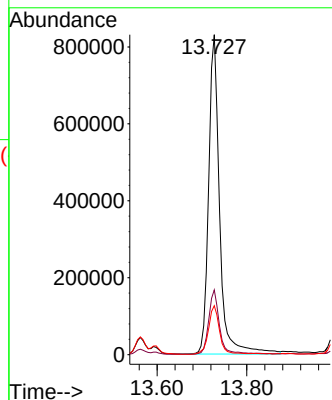
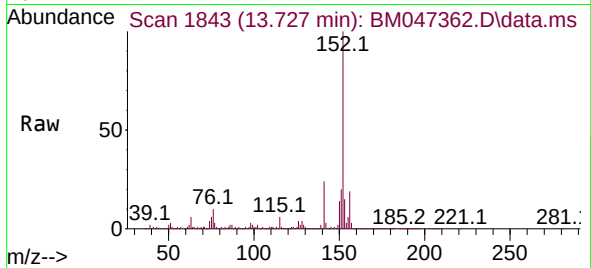




#49
Acenaphthylene
Concen: 20.349 ng
RT: 13.727 min Scan# 1843
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

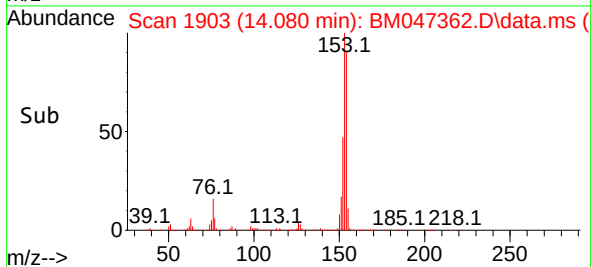
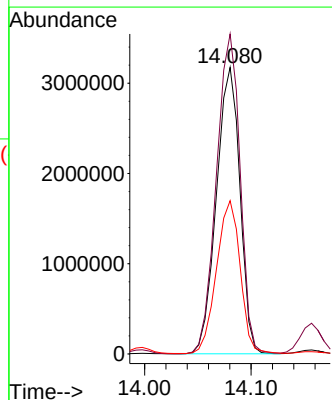
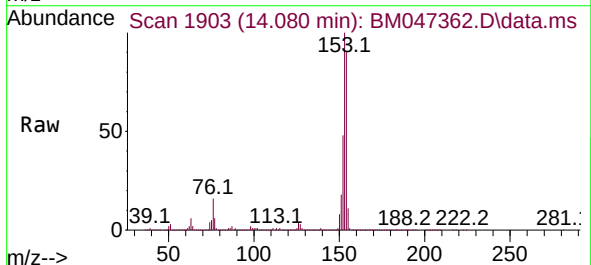
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

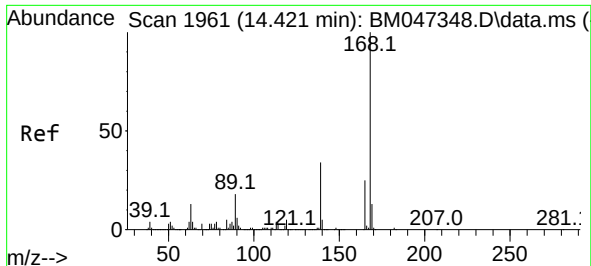
Tgt Ion:152 Resp: 1412870
Ion Ratio Lower Upper
152 100
151 20.3 15.4 23.0
153 15.3 10.6 15.8



#52
Acenaphthene
Concen: 110.356 ng
RT: 14.080 min Scan# 1903
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:154 Resp: 4864240
Ion Ratio Lower Upper
154 100
153 111.7 89.5 134.3
152 53.5 43.0 64.4

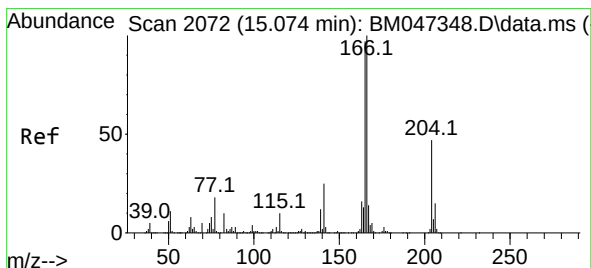
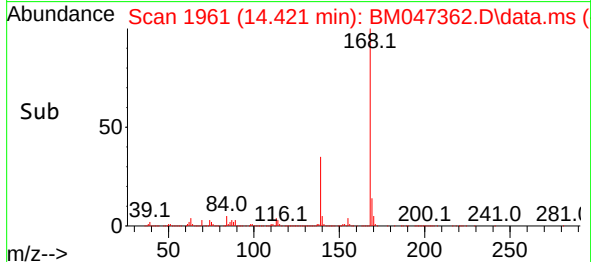
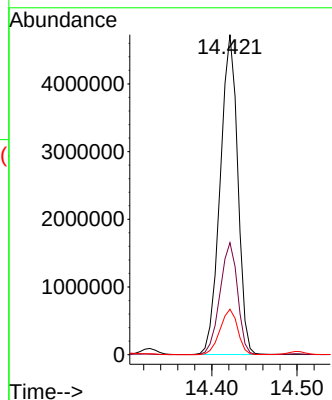
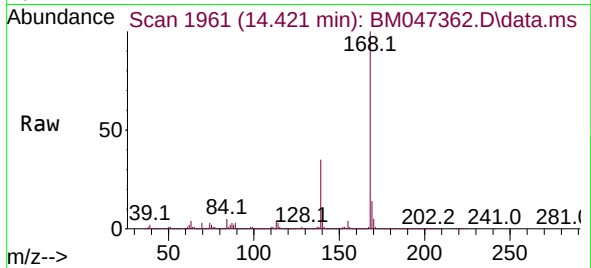




#55
Dibenzofuran
Concen: 95.441 ng
RT: 14.421 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

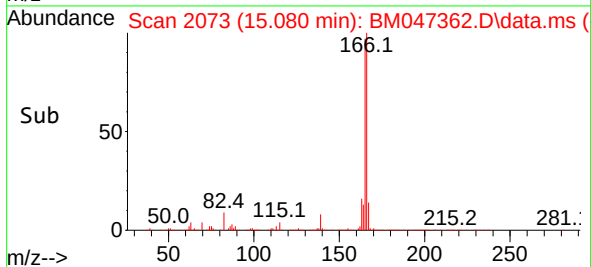
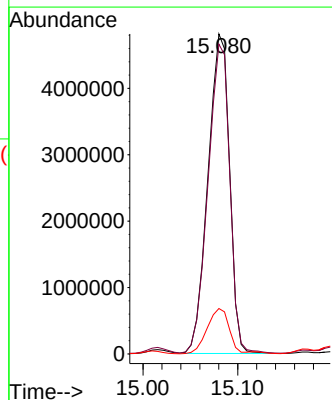
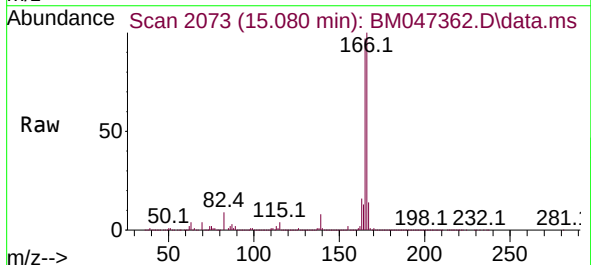
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

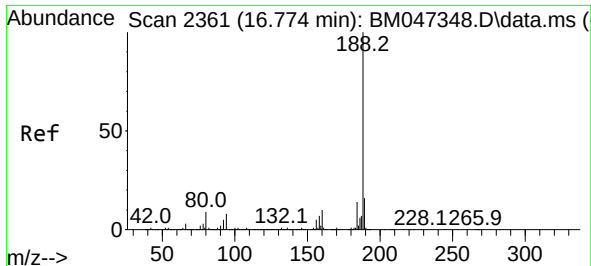
Tgt Ion:168 Resp: 6776002
Ion Ratio Lower Upper
168 100
139 35.0 27.5 41.3
169 14.2 10.5 15.7



#58
Fluorene
Concen: 132.425 ng
RT: 15.080 min Scan# 2073
Delta R.T. 0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:166 Resp: 7608975
Ion Ratio Lower Upper
166 100
165 96.8 77.8 116.6
167 14.2 11.1 16.7

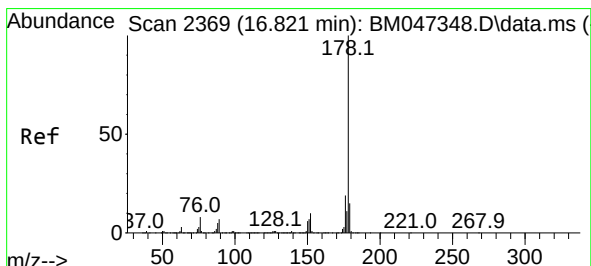
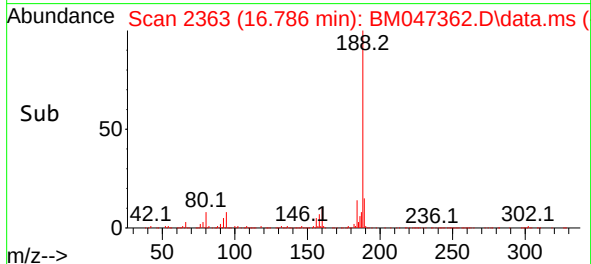
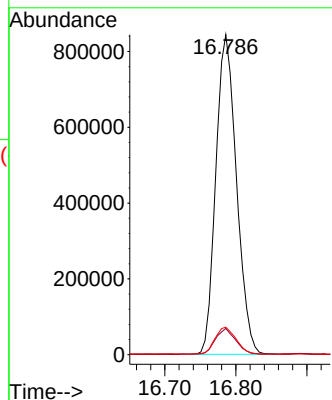
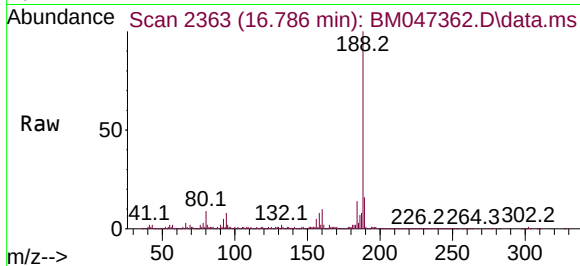




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.786 min Scan# 21
Delta R.T. 0.012 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

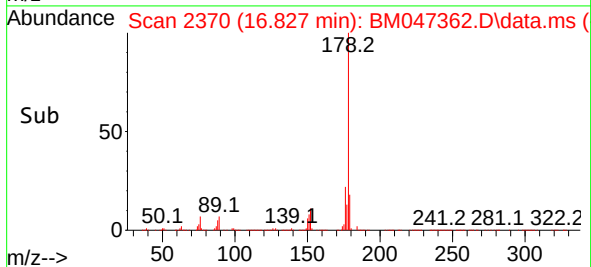
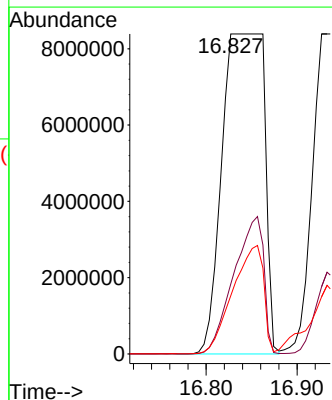
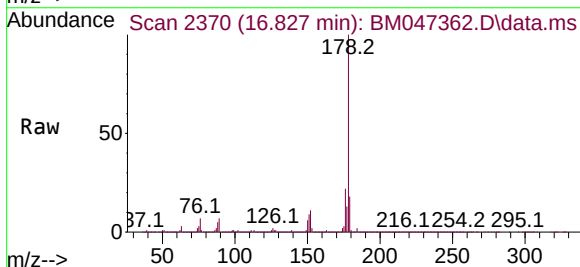
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

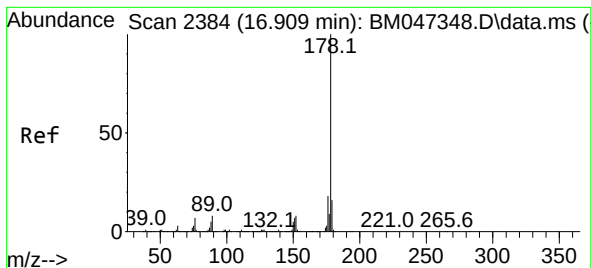
Tgt Ion:188 Resp: 1701537
Ion Ratio Lower Upper
188 100
94 8.2 6.4 9.6
80 8.6 7.4 11.2



#71
Phenanthrene
Concen: 326.938 ng m
RT: 16.827 min Scan# 2370
Delta R.T. 0.006 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:178 Resp:27016297
Ion Ratio Lower Upper
178 100
176 21.9 15.2 22.8
179 18.2 12.2 18.4





#72

Anthracene

Concen: 193.038 ng

RT: 16.927 min Scan# 21

Delta R.T. 0.018 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024

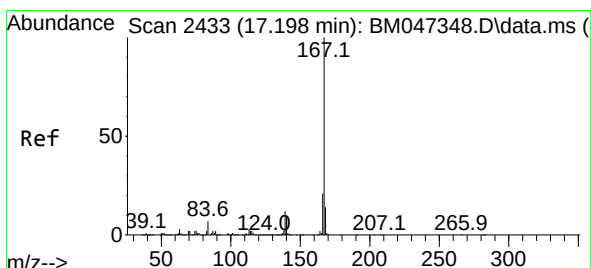
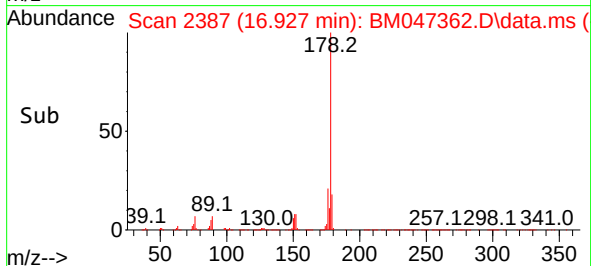
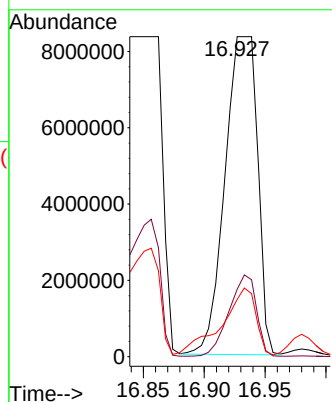
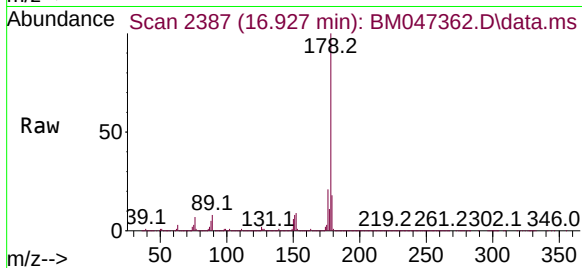
Tgt Ion:178 Resp:15550071

Ion Ratio Lower Upper

178 100

176 21.1 14.7 22.1

179 17.9 12.6 18.8



#73

Carbazole

Concen: 83.617 ng

RT: 17.204 min Scan# 2434

Delta R.T. 0.006 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

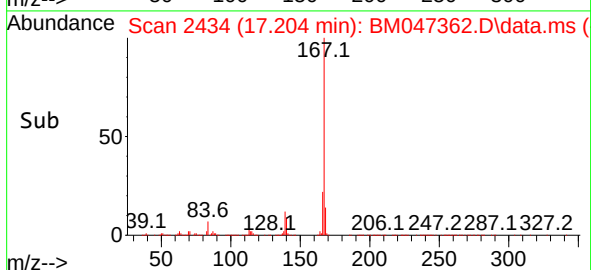
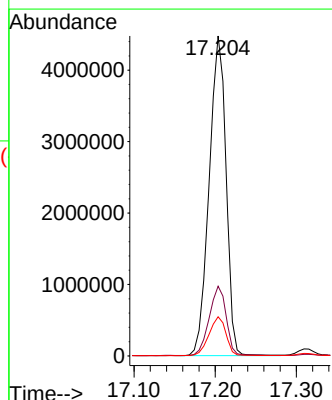
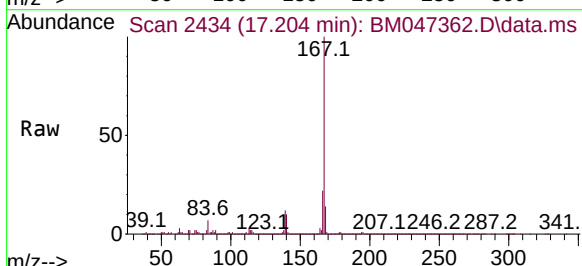
Tgt Ion:167 Resp: 6463625

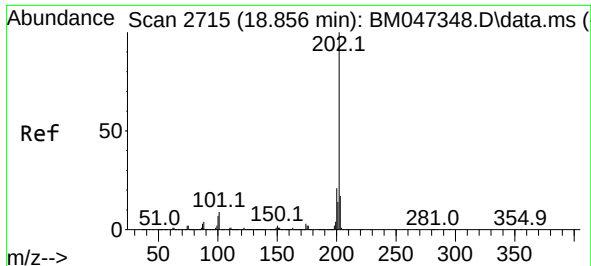
Ion Ratio Lower Upper

167 100

166 21.8 16.9 25.3

139 12.2 9.5 14.3

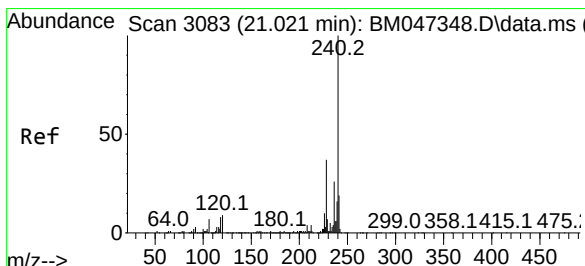
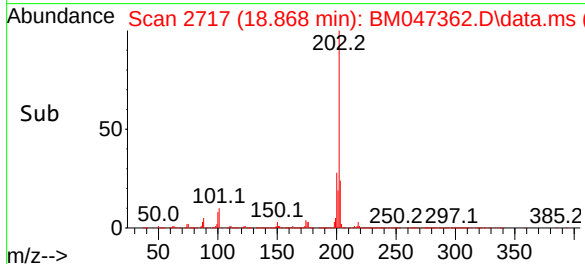
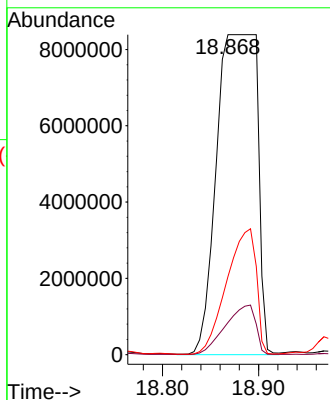
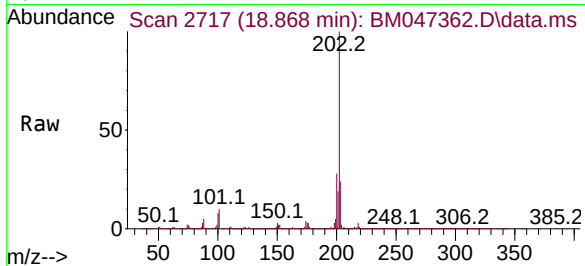




#75
Fluoranthene
Concen: 254.794 ng m
RT: 18.868 min Scan# 21
Delta R.T. 0.012 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

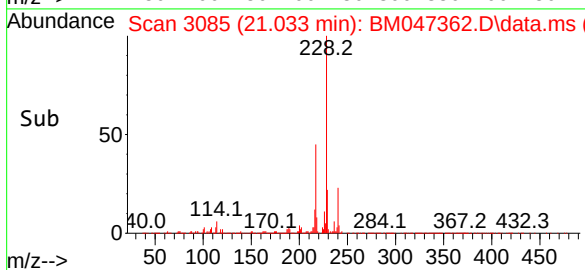
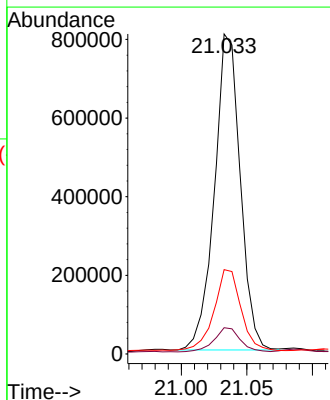
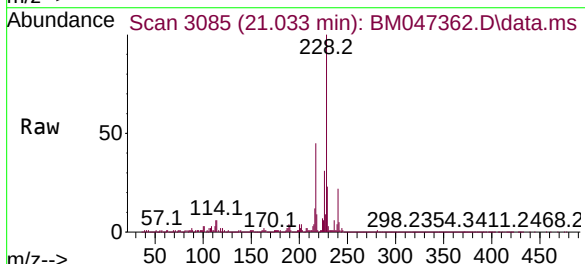
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

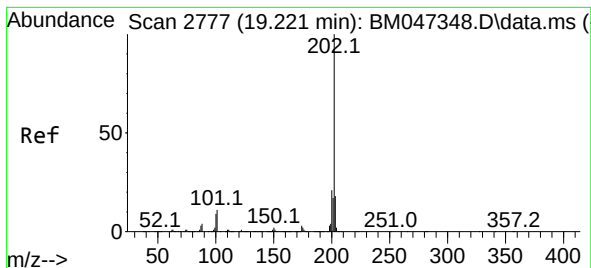
Tgt Ion:202 Resp:24722043
Ion Ratio Lower Upper
202 100
101 10.1 0.0 29.0
203 24.4 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.033 min Scan# 3085
Delta R.T. 0.012 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:240 Resp: 1099780
Ion Ratio Lower Upper
240 100
120 8.2 7.4 11.0
236 26.3 20.8 31.2





#78

Pyrene

Concen: 277.279 ng m

RT: 19.233 min Scan# 21

Delta R.T. 0.012 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024

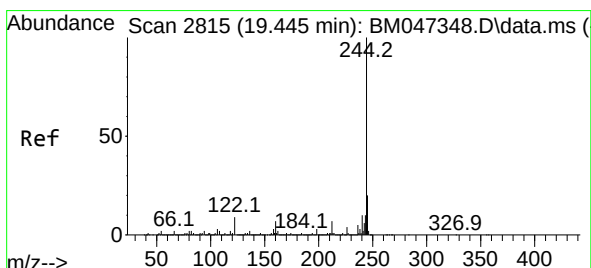
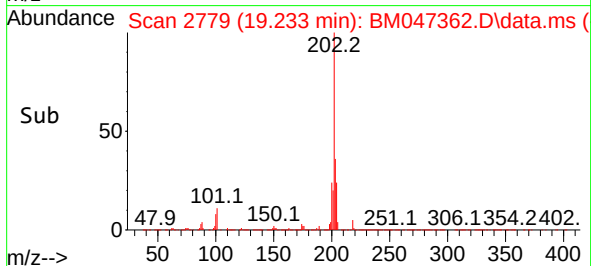
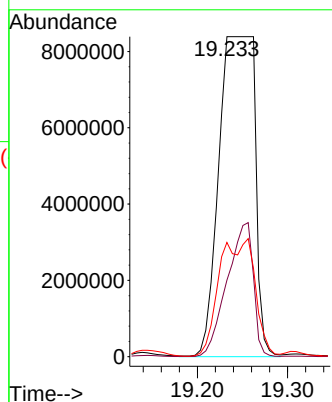
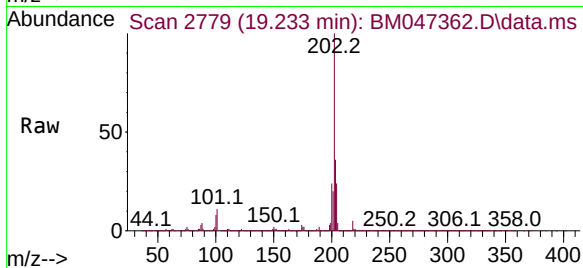
Tgt Ion:202 Resp:23388456

Ion Ratio Lower Upper

202 100

200 23.9 16.7 25.1

203 35.7 14.2 21.4#



#79

Terphenyl-d14

Concen: 29.560 ng

RT: 19.445 min Scan# 2815

Delta R.T. -0.000 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

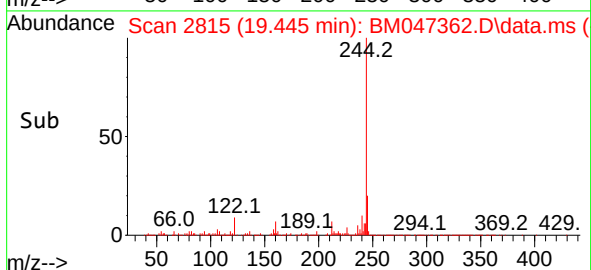
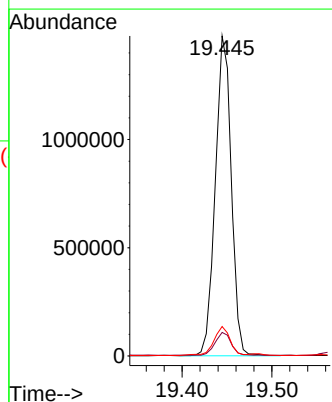
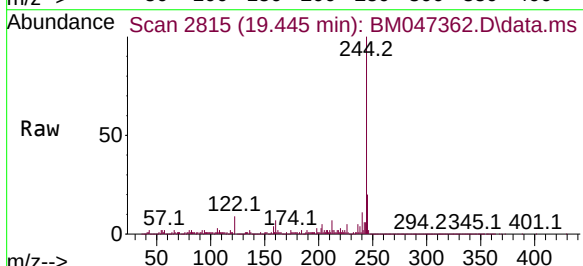
Tgt Ion:244 Resp: 1826411

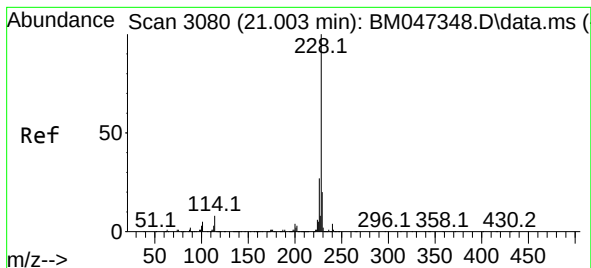
Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 9.2 7.0 10.4





#81

Benzo(a)anthracene

Concen: 205.789 ng

RT: 21.021 min Scan# 3083

Delta R.T. 0.018 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024

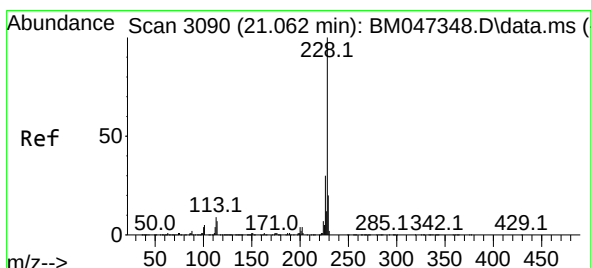
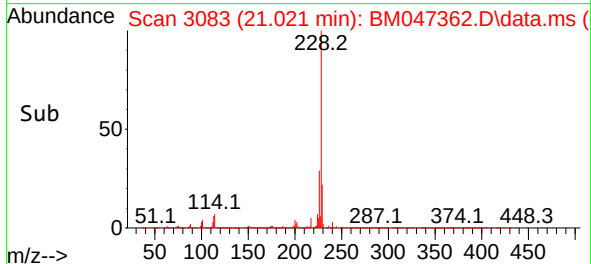
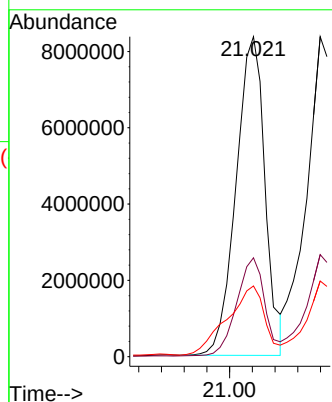
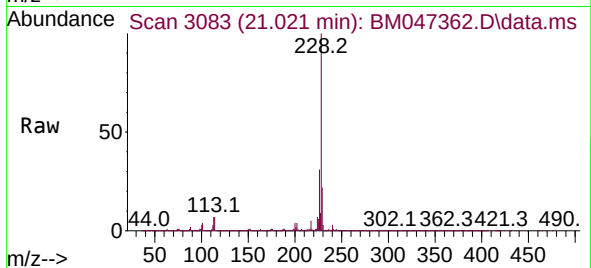
Tgt Ion:228 Resp:14759252

Ion Ratio Lower Upper

228 100

226 30.9 21.4 32.0

229 22.1 15.8 23.8



#83

Chrysene

Concen: 195.064 ng

RT: 21.080 min Scan# 3093

Delta R.T. 0.018 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

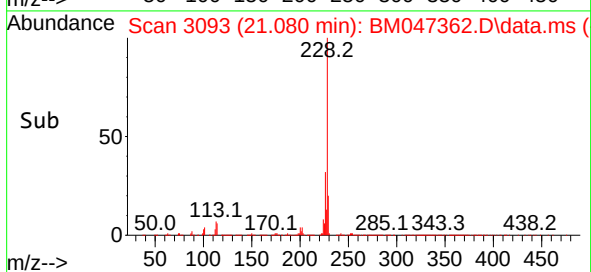
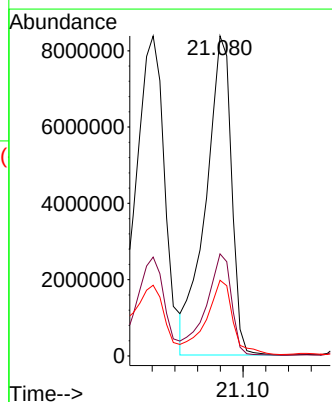
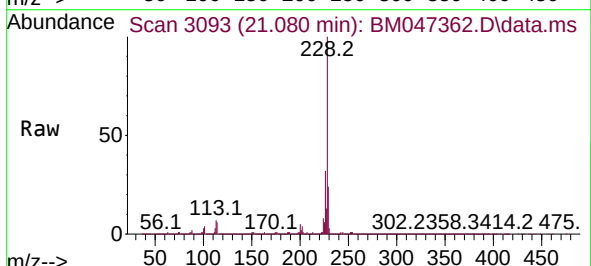
Tgt Ion:228 Resp:13159997

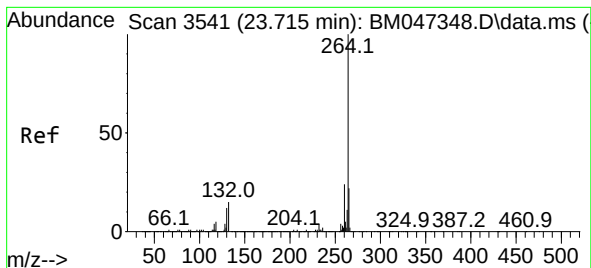
Ion Ratio Lower Upper

228 100

226 31.9 24.0 36.0

229 23.7 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.744 min Scan# 3

Delta R.T. 0.029 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024

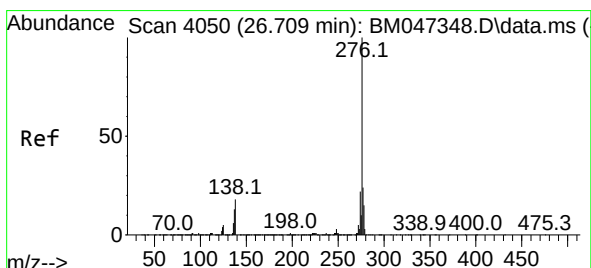
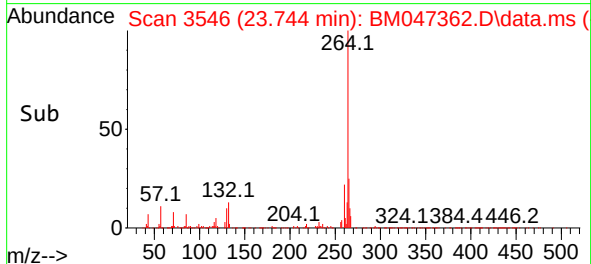
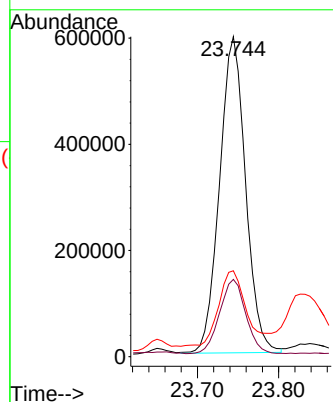
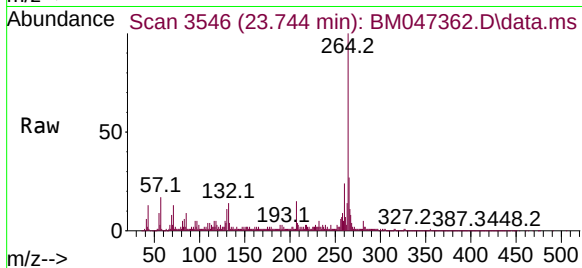
Tgt Ion:264 Resp: 1326456

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.4

265 26.8 17.8 26.6#



#87

Indeno(1,2,3-cd)pyrene

Concen: 103.799 ng

RT: 26.797 min Scan# 4065

Delta R.T. 0.088 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

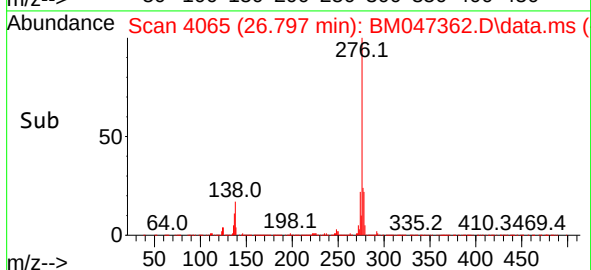
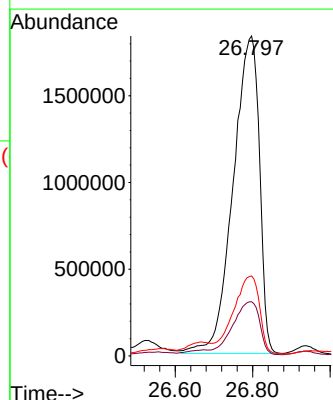
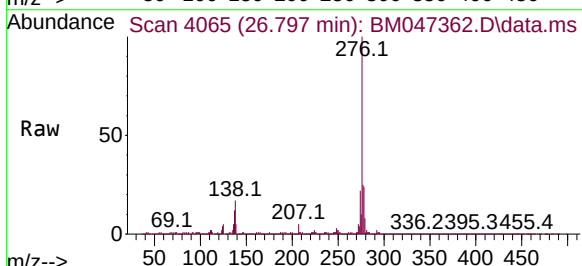
Tgt Ion:276 Resp: 8619028

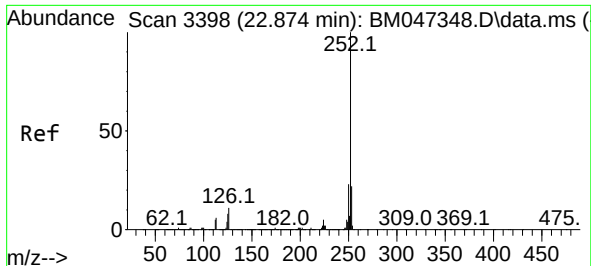
Ion Ratio Lower Upper

276 100

138 17.1 17.7 26.5#

277 24.2 20.0 30.0

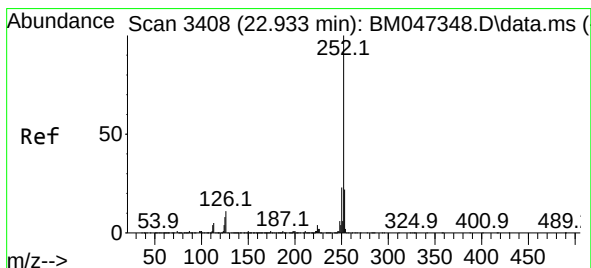
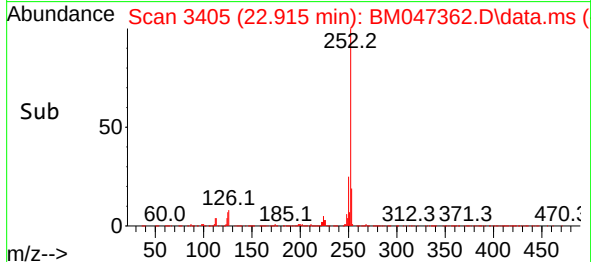
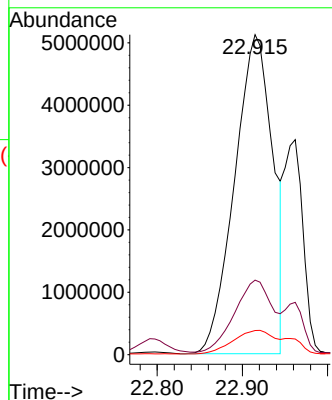
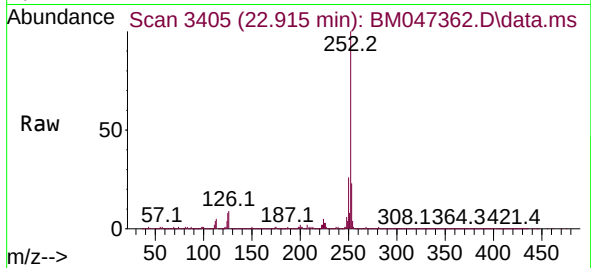




#88
Benzo(b)fluoranthene
Concen: 205.535 ng
RT: 22.915 min Scan# 3413
Delta R.T. 0.041 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

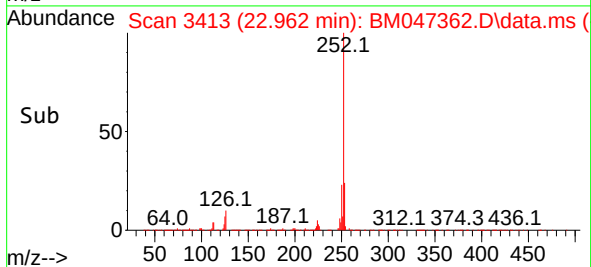
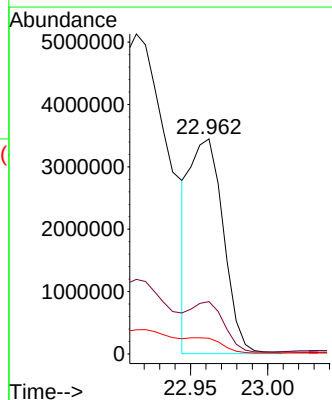
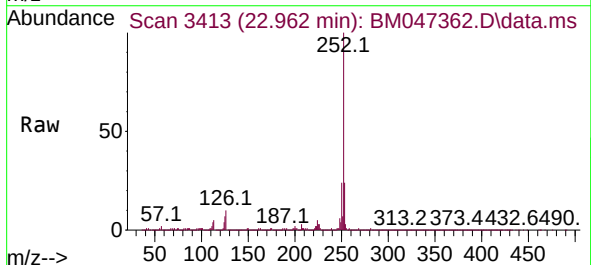
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024

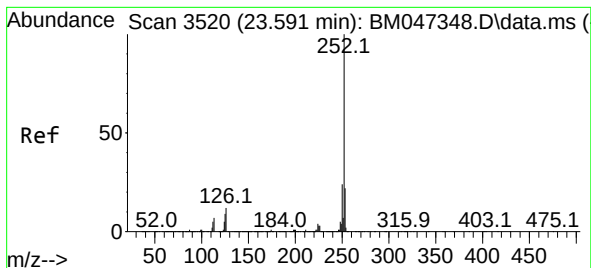
Tgt Ion:252 Resp:15905966
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.6
125 7.5 6.6 10.0



#89
Benzo(k)fluoranthene
Concen: 71.091 ng m
RT: 22.962 min Scan# 3413
Delta R.T. 0.029 min
Lab File: BM047362.D
Acq: 27 Aug 2024 13:57

Tgt Ion:252 Resp: 5215358
Ion Ratio Lower Upper
252 100
253 24.4 17.5 26.3
125 7.3 6.6 9.8





#90

Benzo(a)pyrene

Concen: 190.253 ng

RT: 23.644 min Scan# 3

Delta R.T. 0.053 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024

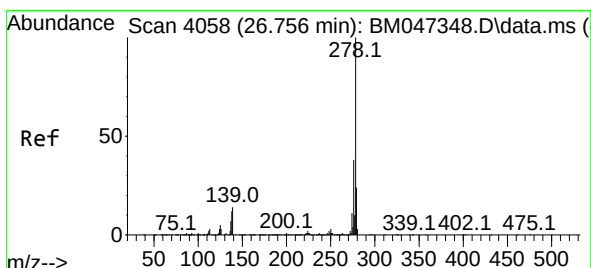
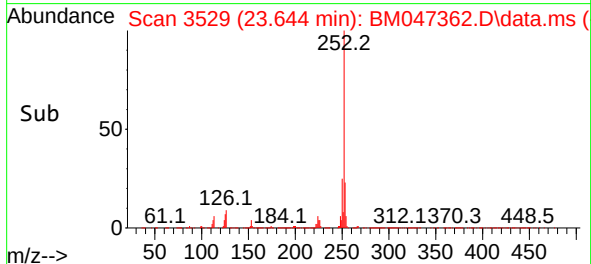
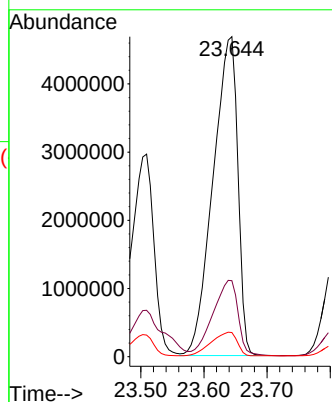
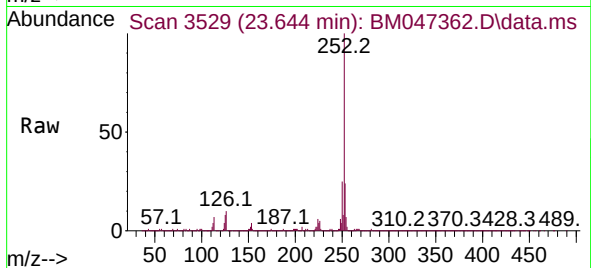
Tgt Ion:252 Resp:12732540

Ion Ratio Lower Upper

252 100

253 23.8 17.7 26.5

125 7.5 7.4 11.2



#91

Dibenzo(a,h)anthracene

Concen: 29.244 ng

RT: 26.815 min Scan# 4068

Delta R.T. 0.059 min

Lab File: BM047362.D

Acq: 27 Aug 2024 13:57

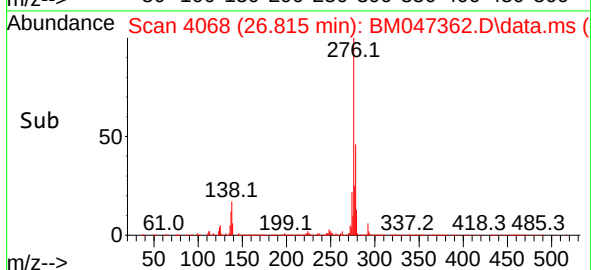
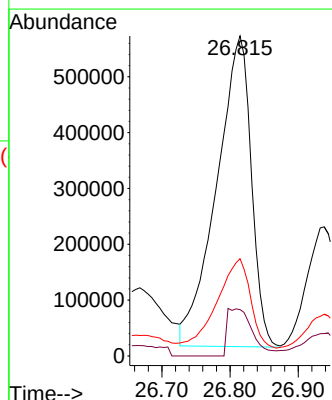
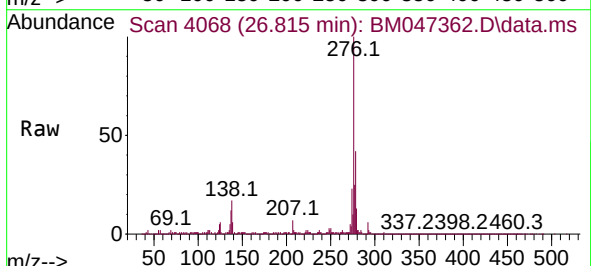
Tgt Ion:278 Resp: 1967199

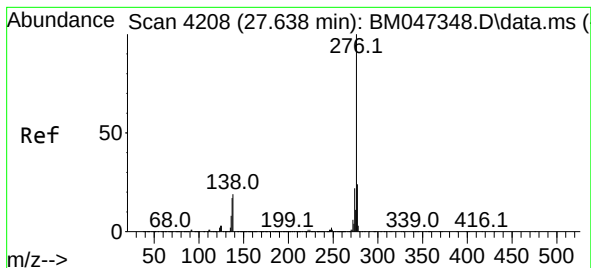
Ion Ratio Lower Upper

278 100

139 14.5 11.1 16.7

279 30.4 19.2 28.8#





#92

Benzo(g,h,i)perylene

Concen: 117.409 ng

RT: 27.744 min Scan# 41

Delta R.T. 0.106 min

Lab File: BM047362.D

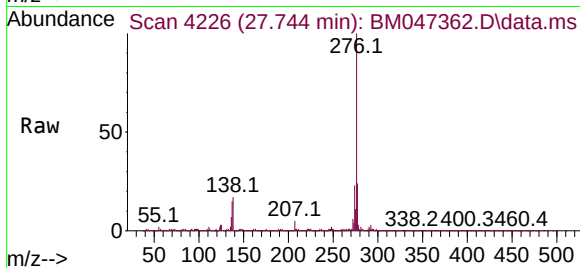
Acq: 27 Aug 2024 13:57

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024



Tgt Ion:276 Resp: 8210822

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.0

138 17.4 15.0 22.6

