

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082824\
 Data File : BM047381.D
 Acq On : 28 Aug 2024 15:04
 Operator : RC/JU
 Sample : P3728-01DL2 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SU-03-08232024DL2

Quant Time: Aug 28 15:47:31 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)

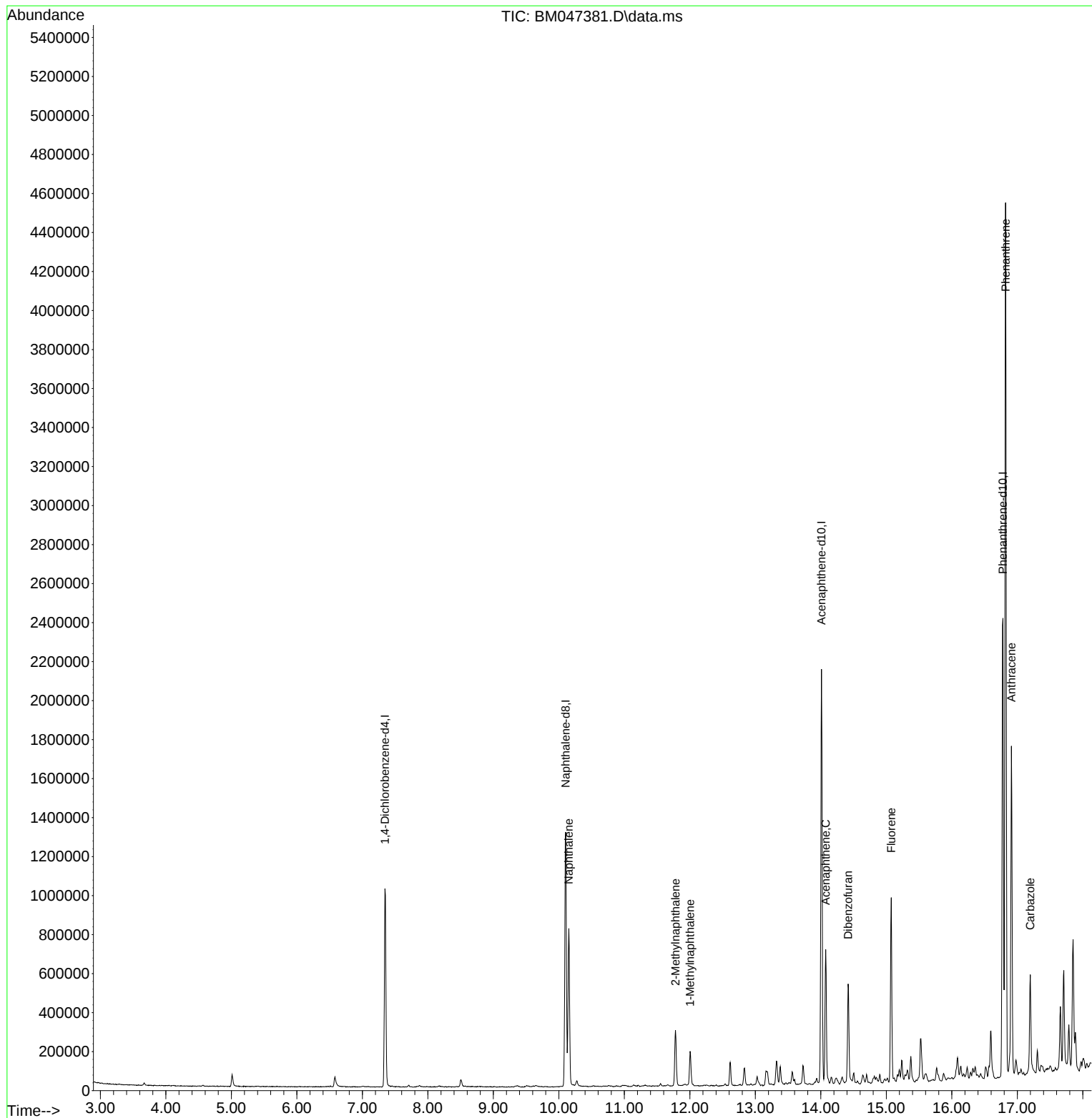
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.346	152	298612	20.000	ng	0.00
21) Naphthalene-d8	10.104	136	1134590	20.000	ng	0.00
39) Acenaphthene-d10	14.010	164	744089	20.000	ng	0.00
64) Phenanthrene-d10	16.780	188	1474483	20.000	ng	0.00
76) Chrysene-d12	21.021	240	1012151	20.000	ng	0.00
86) Perylene-d12	23.721	264	1081777	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.010	112	30184	1.939	ng	0.00
7) Phenol-d6	6.581	99	38760	1.828	ng	0.01
23) Nitrobenzene-d5	8.504	82	24788	1.212	ng	0.00
42) 2,4,6-Tribromophenol	15.527	330	16211	1.806	ng	0.00
45) 2-Fluorobiphenyl	12.616	172	69619	1.438	ng	0.00
79) Terphenyl-d14	19.445	244	93936	1.652	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.151	128	664388	11.989	ng	99
37) 2-Methylnaphthalene	11.781	142	149579	3.702	ng	98
38) 1-Methylnaphthalene	12.004	142	85892	2.149	ng	97
52) Acenaphthene	14.074	154	249836	6.651	ng	98
55) Dibenzofuran	14.416	168	342781	5.665	ng	98
58) Fluorene	15.074	166	404057	8.251	ng	98
71) Phenanthrene	16.821	178	2662420	37.181	ng	100
72) Anthracene	16.910	178	1037490	14.863	ng	100
73) Carbazole	17.198	167	342547	5.114	ng	99
75) Fluoranthene	18.857	202	2304454	27.408	ng	99
78) Pyrene	19.221	202	1834896	23.637	ng	100
81) Benzo(a)anthracene	21.003	228	739405	11.202	ng	98
83) Chrysene	21.062	228	709638	11.429	ng	98
87) Indeno(1,2,3-cd)pyrene	26.727	276	423699	6.257	ng	96
88) Benzo(b)fluoranthene	22.880	252	797951	12.643	ng	98
89) Benzo(k)fluoranthene	22.933	252	324272	5.420	ng	97
90) Benzo(a)pyrene	23.597	252	603326	11.054	ng	98
91) Dibenzo(a,h)anthracene	26.750	278	129602	2.362	ng	# 89
92) Benzo(g,h,i)perylene	27.656	276	399430	7.003	ng	99

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

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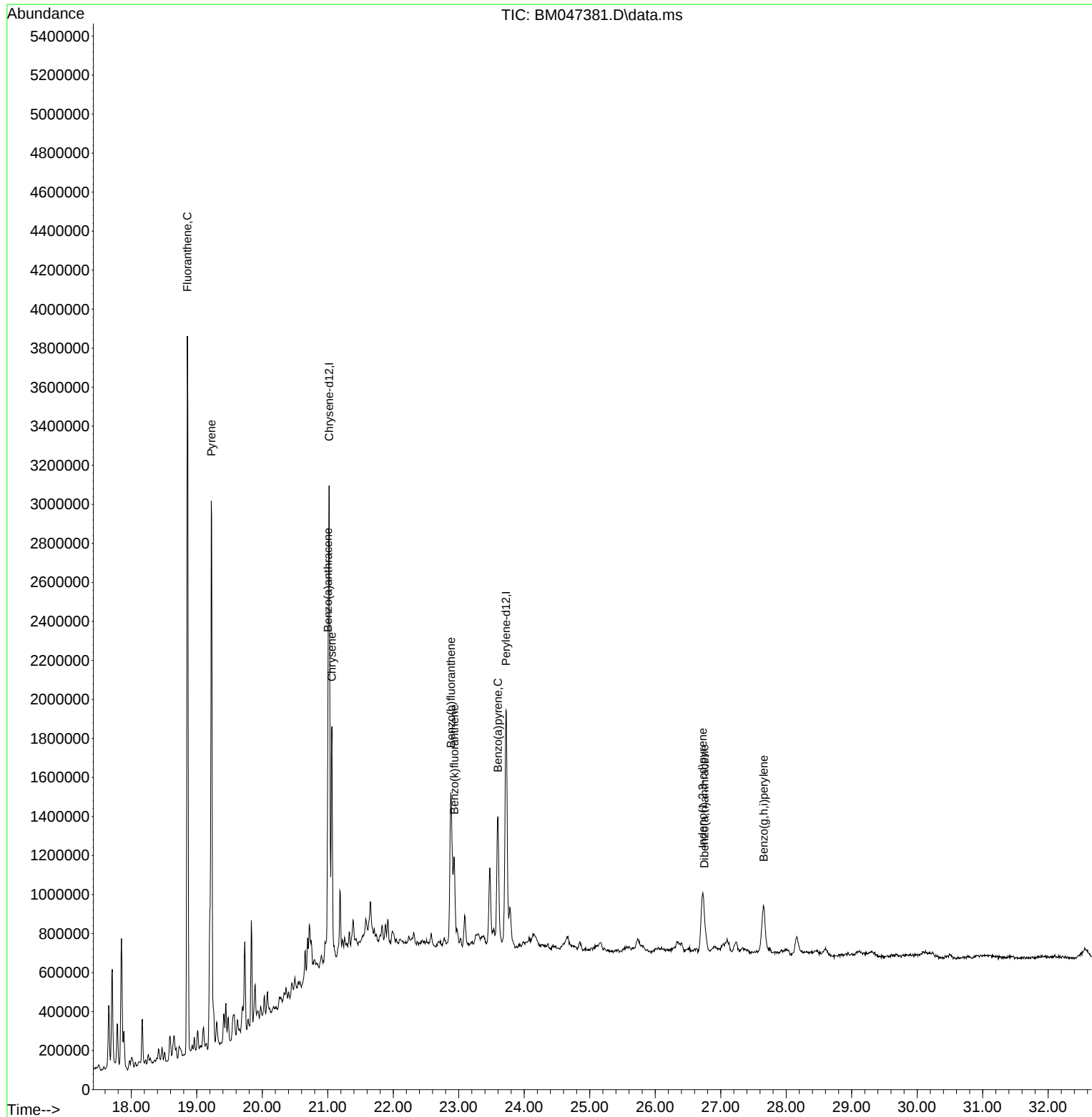
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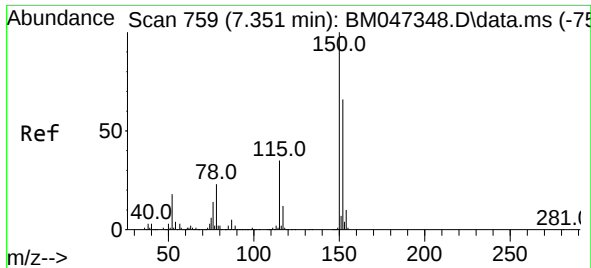


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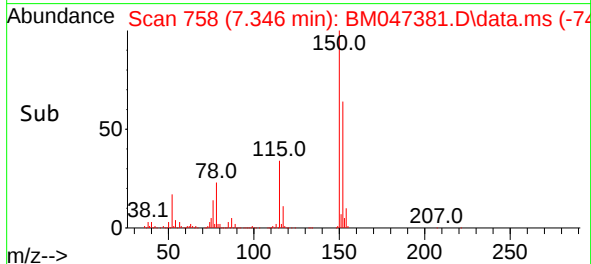
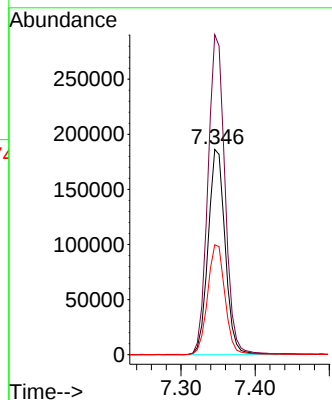
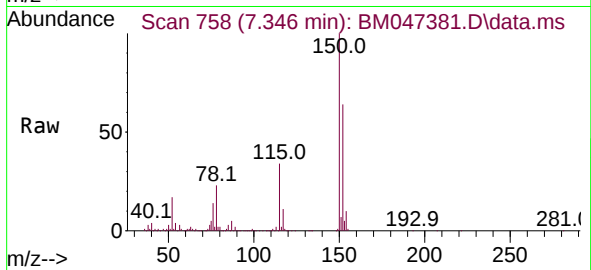




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.346 min Scan# 759
Delta R.T. -0.005 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

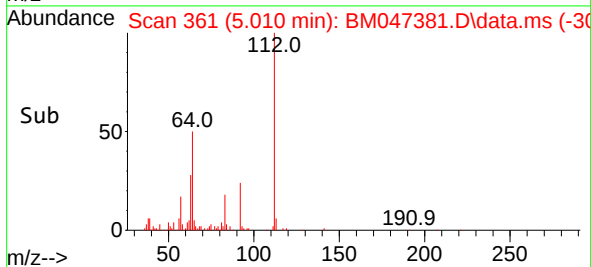
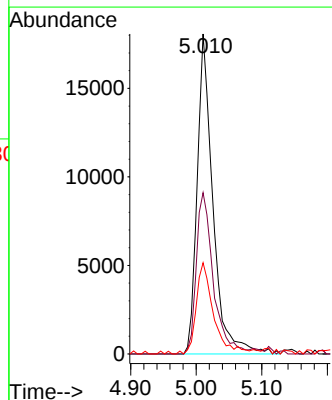
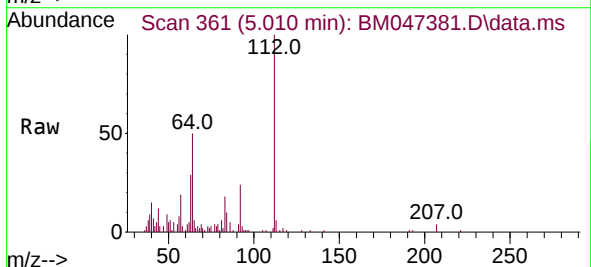
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL2

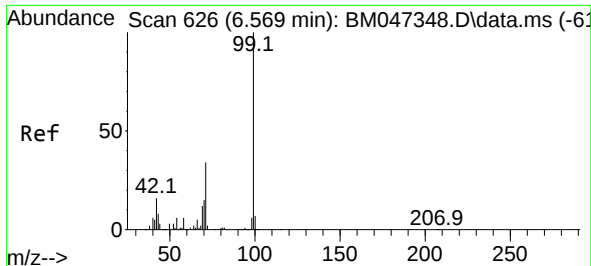
Tgt Ion:152 Resp: 298612
Ion Ratio Lower Upper
152 100
150 155.8 121.3 181.9
115 53.5 42.6 64.0



#5
2-Fluorophenol
Concen: 1.939 ng
RT: 5.010 min Scan# 361
Delta R.T. 0.006 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion:112 Resp: 30184
Ion Ratio Lower Upper
112 100
64 50.4 45.7 68.5
63 28.5 23.8 35.8

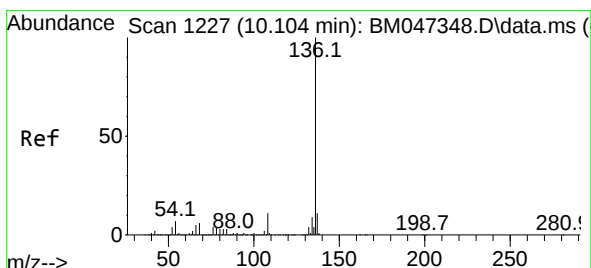
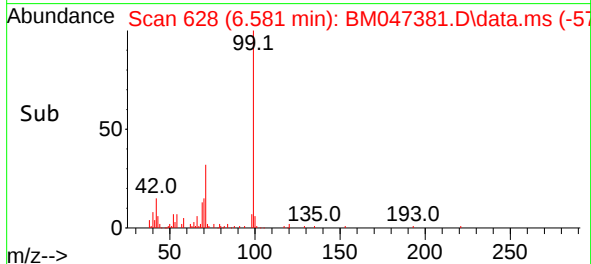
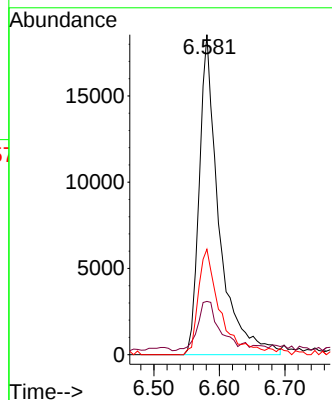
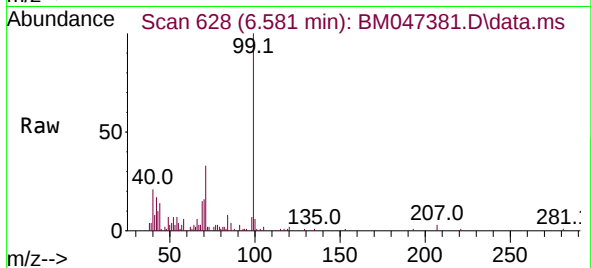




#7
Phenol-d6
Concen: 1.828 ng
RT: 6.581 min Scan# 61
Delta R.T. 0.012 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

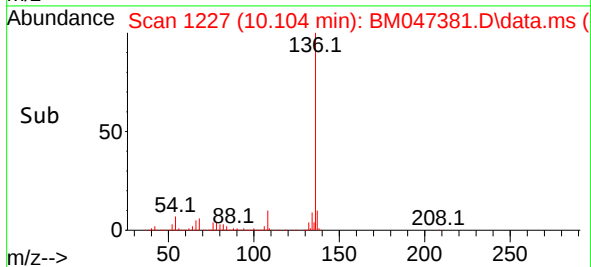
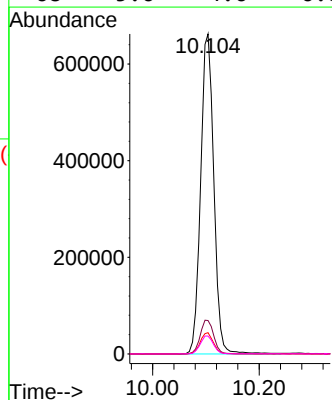
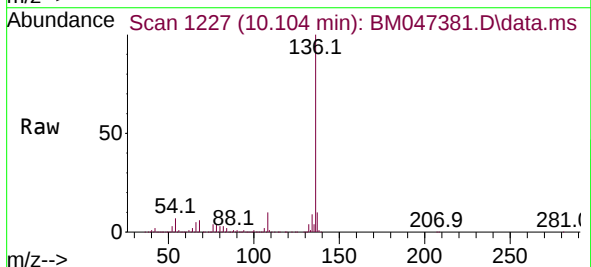
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL2

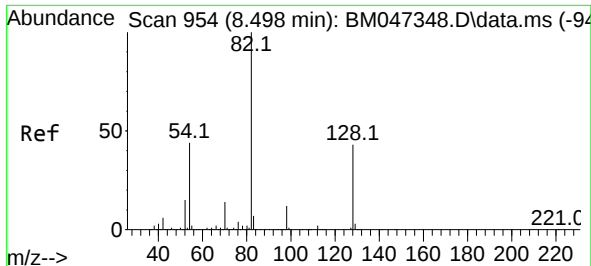
Tgt Ion: 99 Resp: 38760
Ion Ratio Lower Upper
99 100
42 16.6 13.0 19.4
71 32.9 27.5 41.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.104 min Scan# 1227
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion: 136 Resp: 1134590
Ion Ratio Lower Upper
136 100
137 10.5 8.8 13.2
54 6.6 5.2 7.8
68 5.6 4.6 6.8





#23

Nitrobenzene-d5

Concen: 1.212 ng

RT: 8.504 min Scan# 91

Delta R.T. 0.006 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

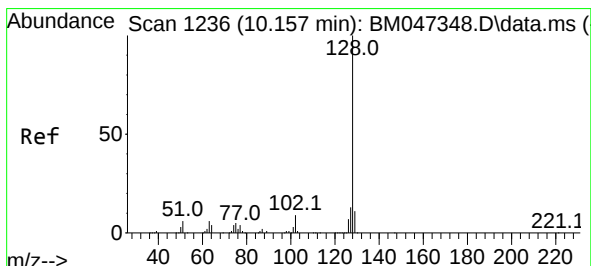
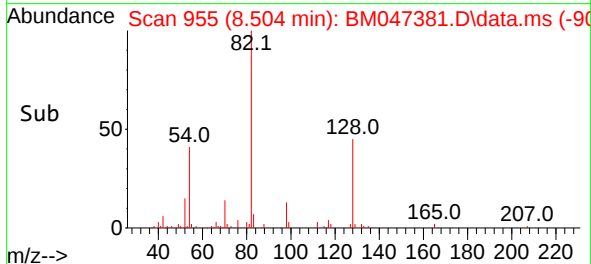
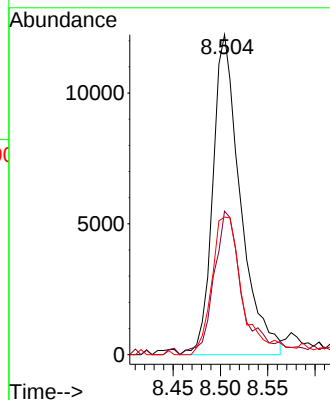
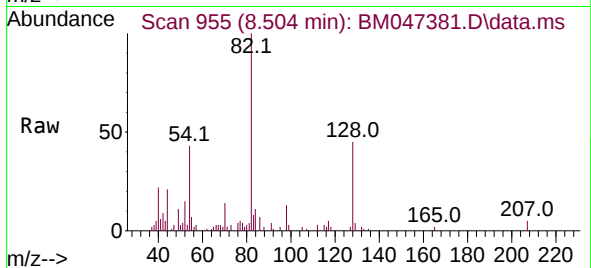
Tgt Ion: 82 Resp: 24788

Ion Ratio Lower Upper

82 100

128 44.9 34.6 51.8

54 43.0 35.5 53.3



#31

Naphthalene

Concen: 11.989 ng

RT: 10.151 min Scan# 1235

Delta R.T. -0.006 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

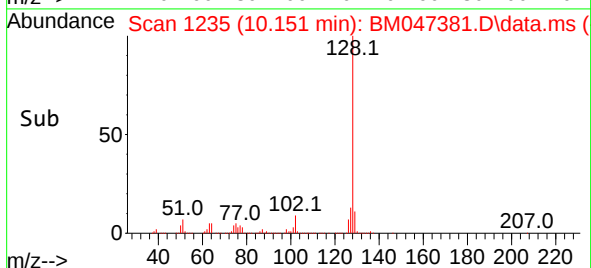
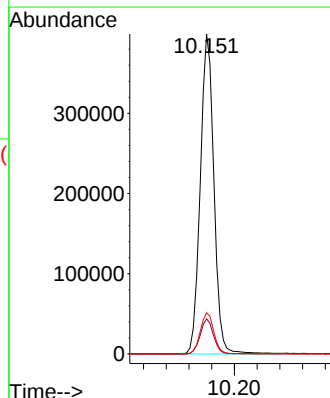
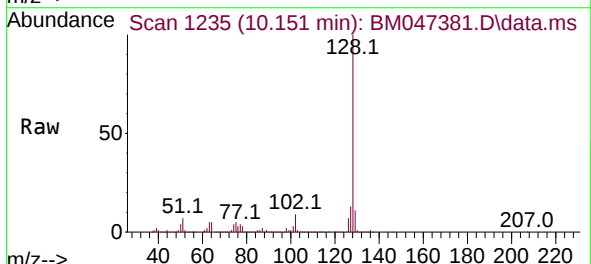
Tgt Ion:128 Resp: 664388

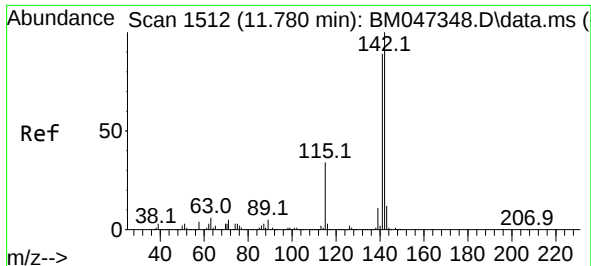
Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.6

127 12.9 10.4 15.6

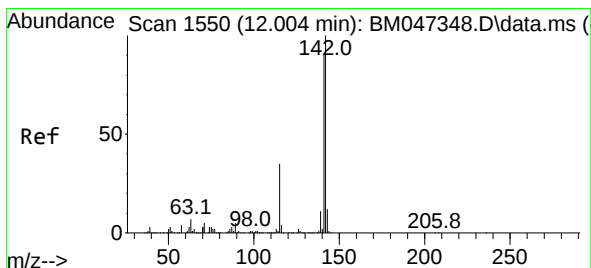
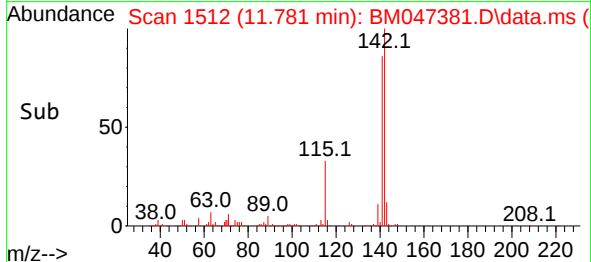
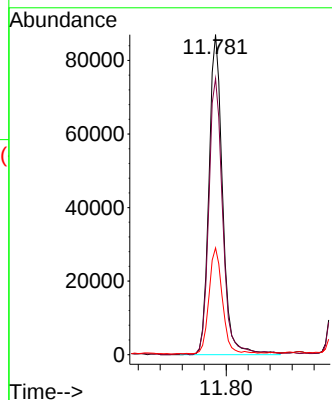
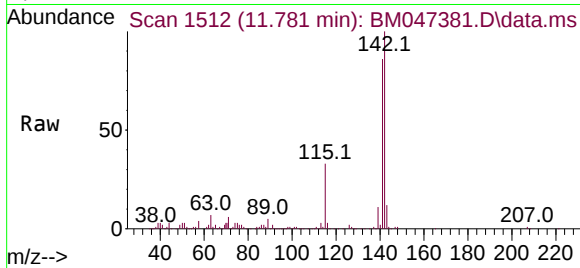




#37
2-Methylnaphthalene
Concen: 3.702 ng
RT: 11.781 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

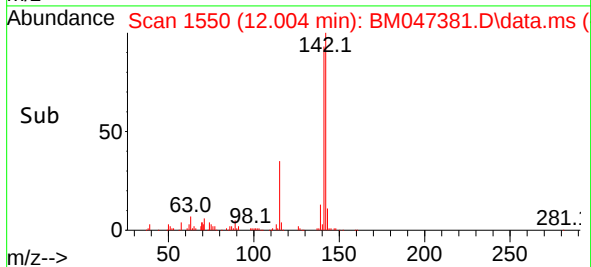
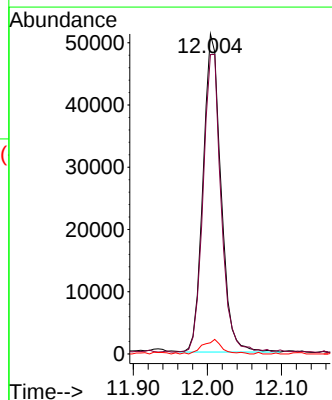
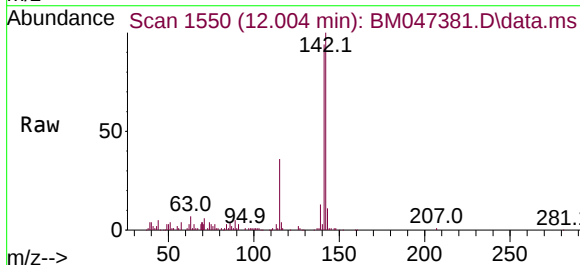
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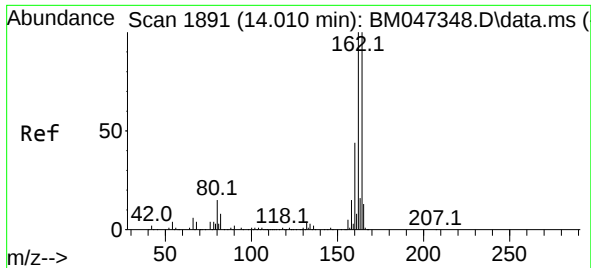
Tgt Ion:142 Resp: 149579
Ion Ratio Lower Upper
142 100
141 86.3 70.8 106.2
115 33.4 27.5 41.3



#38
1-Methylnaphthalene
Concen: 2.149 ng
RT: 12.004 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion:142 Resp: 85892
Ion Ratio Lower Upper
142 100
141 93.6 72.9 109.3
116 3.5 3.0 4.6

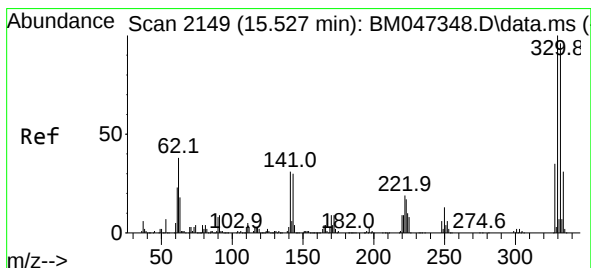
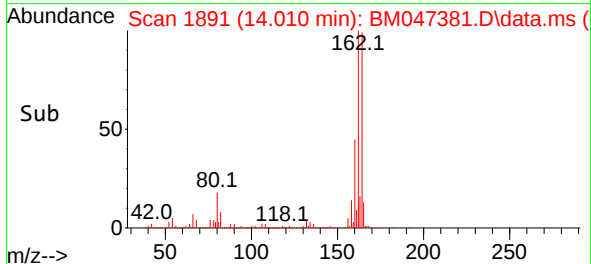
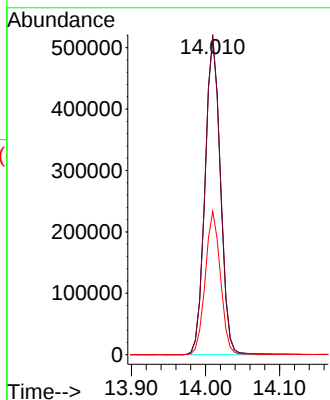
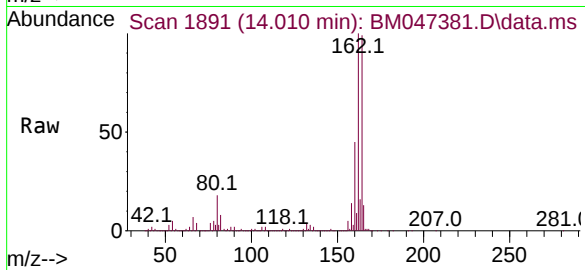




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.010 min Scan# 1891
Delta R.T. -0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

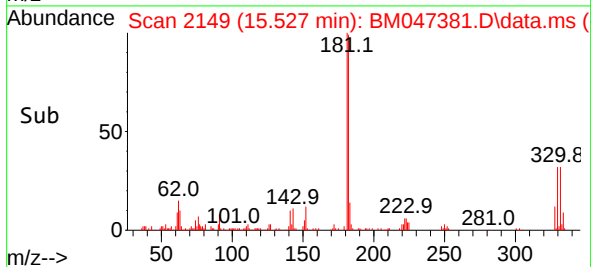
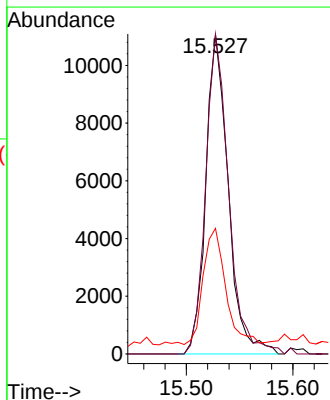
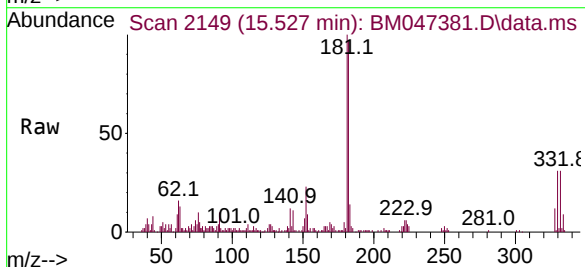
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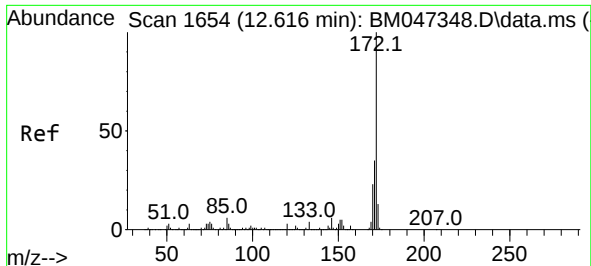
Tgt Ion:164 Resp: 744089
Ion Ratio Lower Upper
164 100
162 101.2 79.7 119.5
160 45.3 34.9 52.3



#42
2,4,6-Tribromophenol
Concen: 1.806 ng
RT: 15.527 min Scan# 2149
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion:330 Resp: 16211
Ion Ratio Lower Upper
330 100
332 103.3 77.2 115.8
141 39.5 27.6 41.4

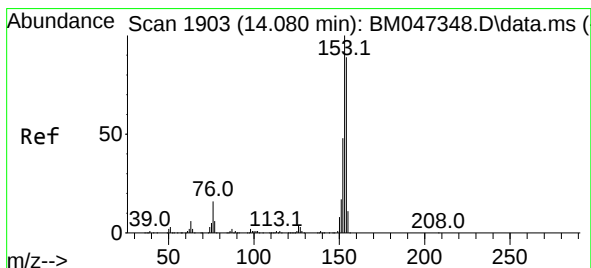
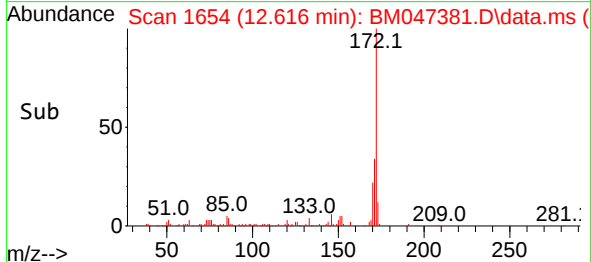
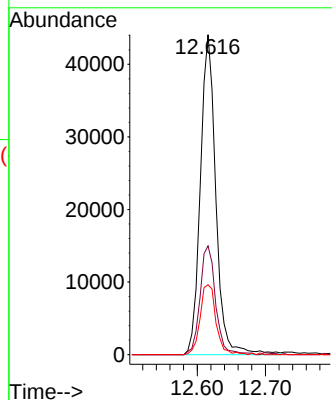
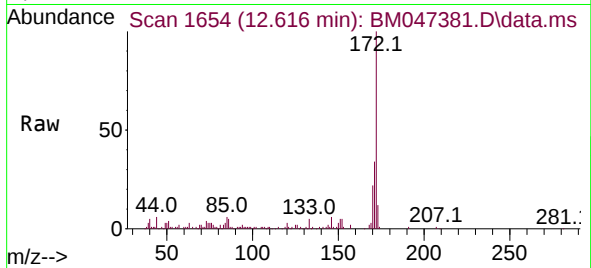




#45
2-Fluorobiphenyl
Concen: 1.438 ng
RT: 12.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

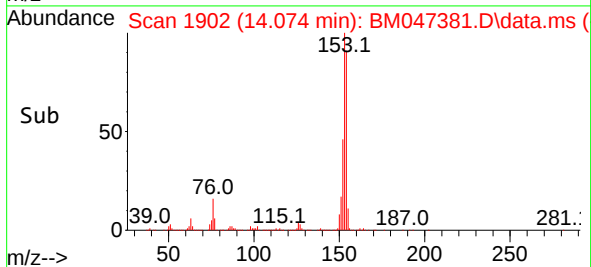
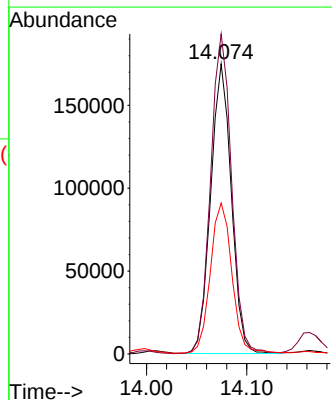
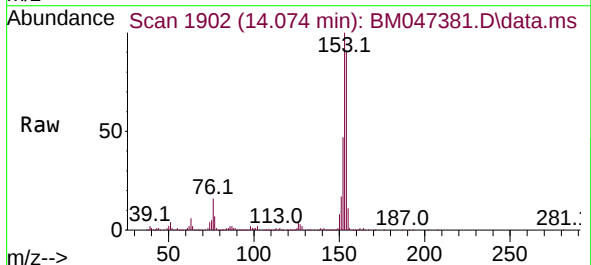
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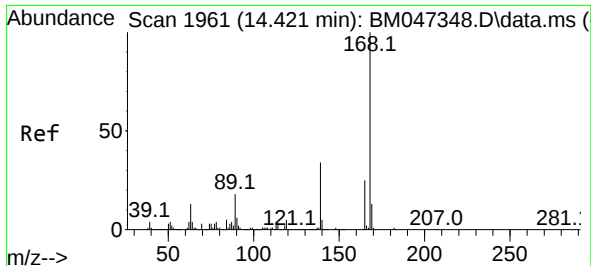
Tgt Ion:172 Resp: 69619
Ion Ratio Lower Upper
172 100
171 34.0 27.8 41.6
170 21.9 18.5 27.7



#52
Acenaphthene
Concen: 6.651 ng
RT: 14.074 min Scan# 1902
Delta R.T. -0.006 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion:154 Resp: 249836
Ion Ratio Lower Upper
154 100
153 110.3 89.5 134.3
152 52.0 43.0 64.4

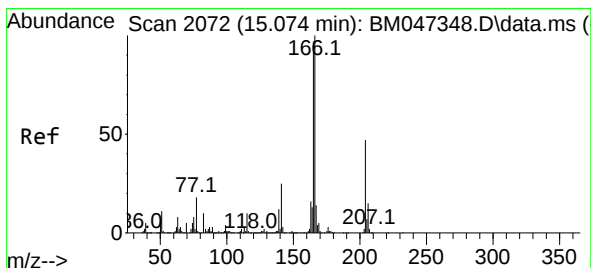
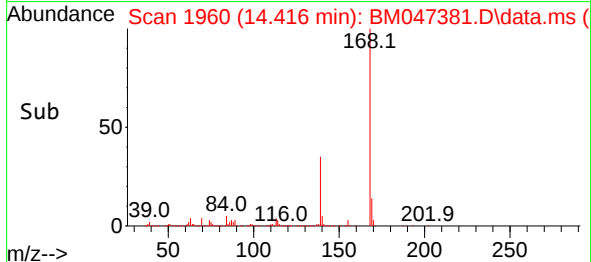
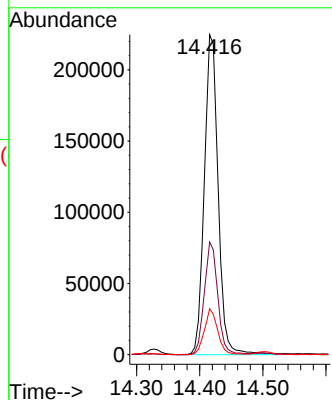
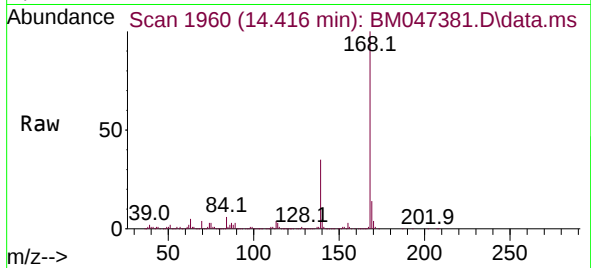




#55
Dibenzenofuran
Concen: 5.665 ng
RT: 14.416 min Scan# 1961
Delta R.T. -0.006 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

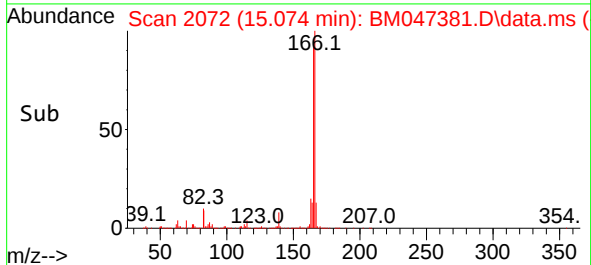
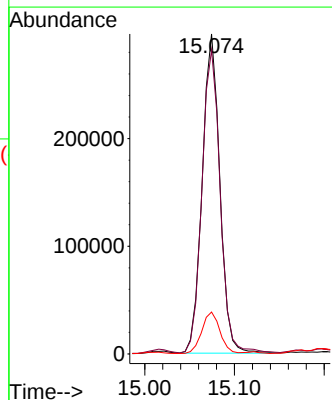
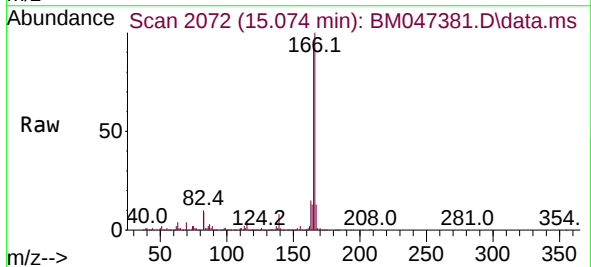
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SU-03-08232024DL2

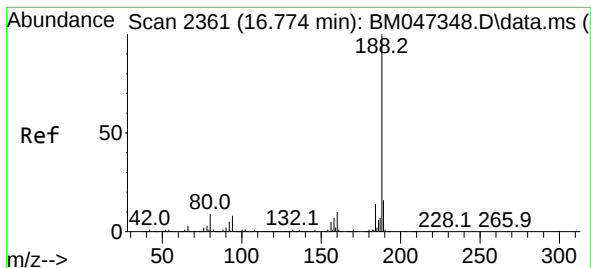
Tgt Ion:168 Resp: 342781
Ion Ratio Lower Upper
168 100
139 35.2 27.5 41.3
169 14.3 10.5 15.7



#58
Fluorene
Concen: 8.251 ng
RT: 15.074 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion:166 Resp: 404057
Ion Ratio Lower Upper
166 100
165 95.0 77.8 116.6
167 13.1 11.1 16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.780 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

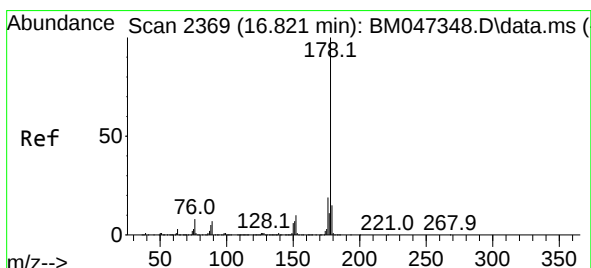
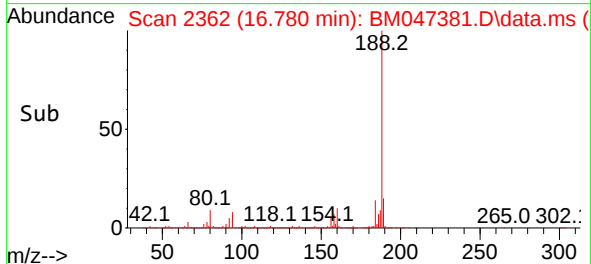
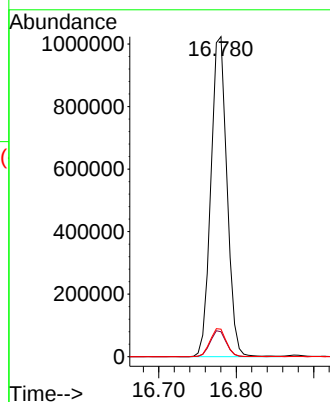
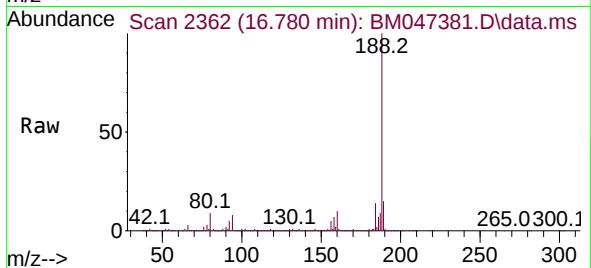
Tgt Ion:188 Resp: 1474483

Ion Ratio Lower Upper

188 100

94 7.8 6.4 9.6

80 8.6 7.4 11.2



#71

Phenanthrene

Concen: 37.181 ng

RT: 16.821 min Scan# 2369

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

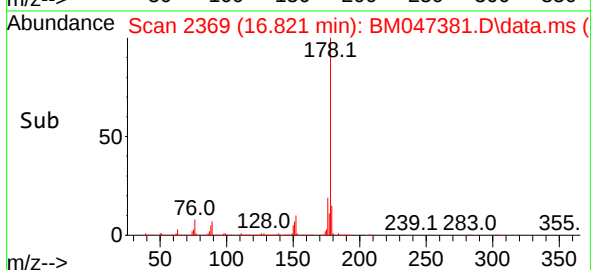
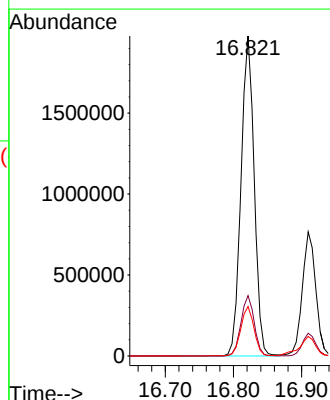
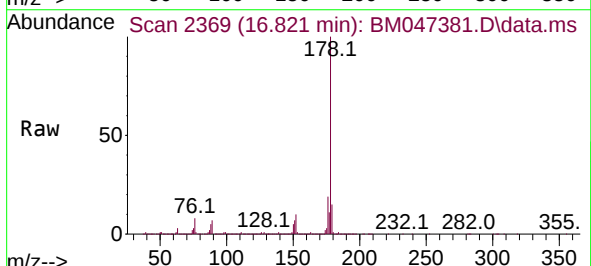
Tgt Ion:178 Resp: 2662420

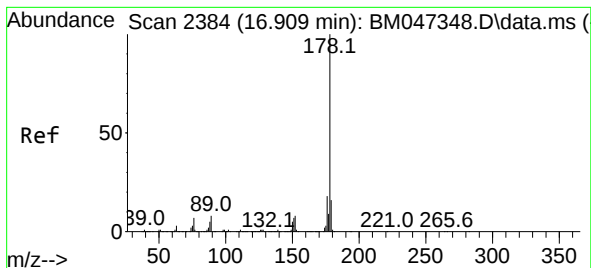
Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 15.4 12.2 18.4





#72

Anthracene

Concen: 14.863 ng

RT: 16.910 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

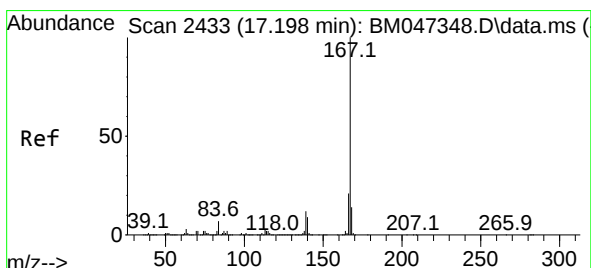
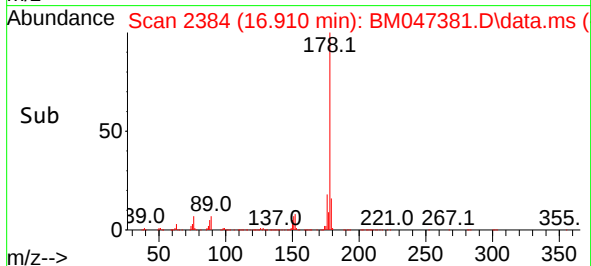
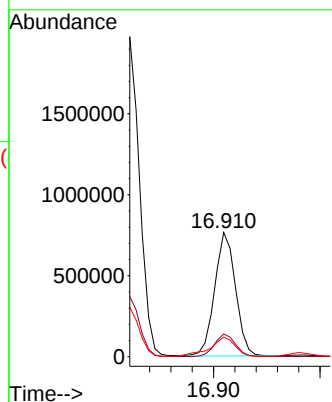
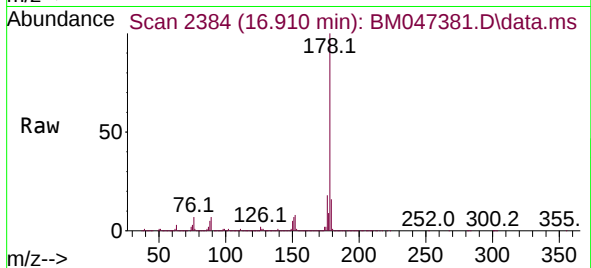
Tgt Ion:178 Resp: 1037490

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

179 15.7 12.6 18.8



#73

Carbazole

Concen: 5.114 ng

RT: 17.198 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

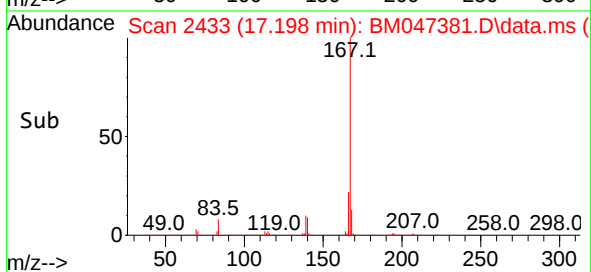
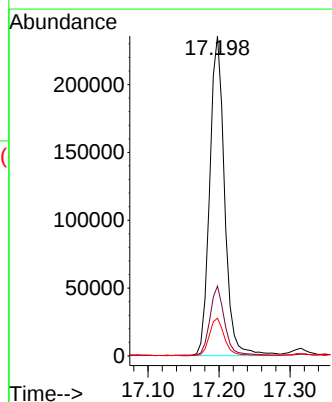
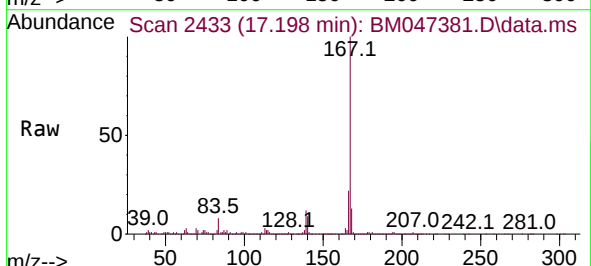
Tgt Ion:167 Resp: 342547

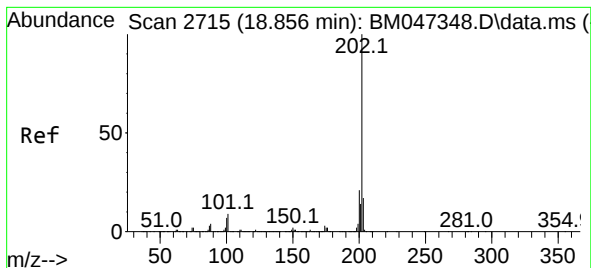
Ion Ratio Lower Upper

167 100

166 21.8 16.9 25.3

139 11.8 9.5 14.3





#75

Fluoranthene

Concen: 27.408 ng

RT: 18.857 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

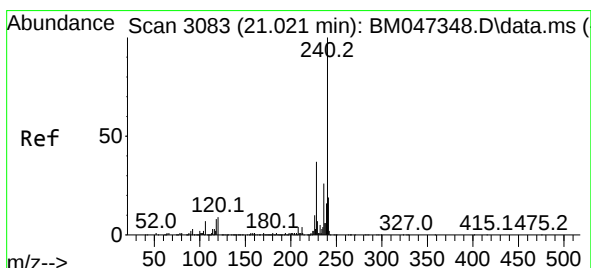
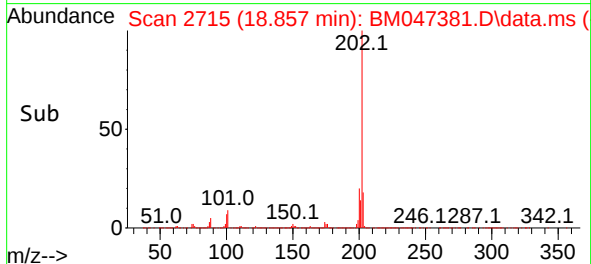
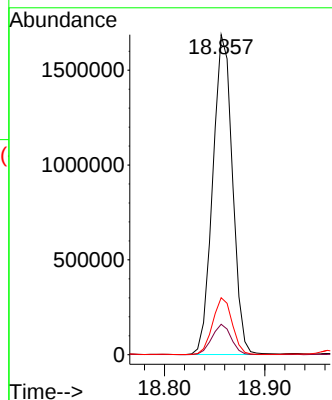
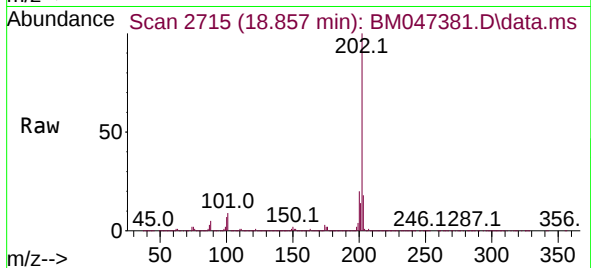
Tgt Ion:202 Resp: 2304454

Ion Ratio Lower Upper

202 100

101 9.5 0.0 29.0

203 17.8 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.021 min Scan# 3083

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

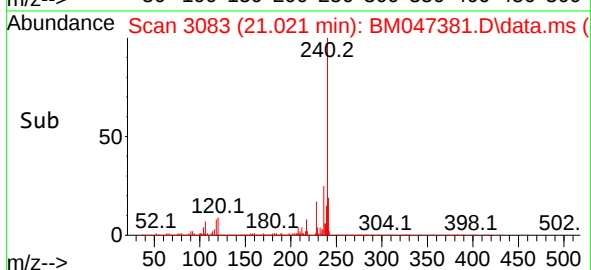
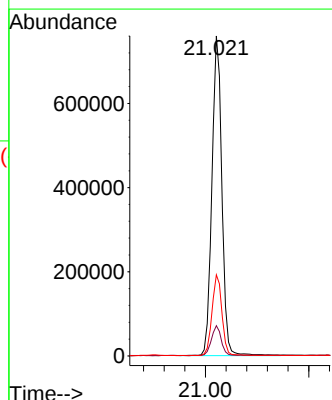
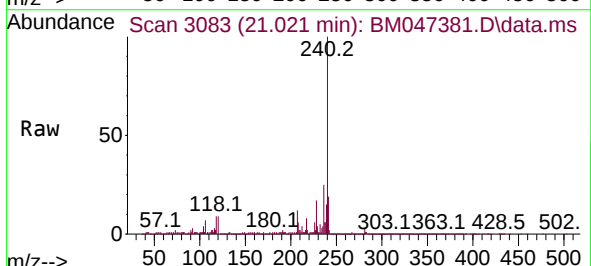
Tgt Ion:240 Resp: 1012151

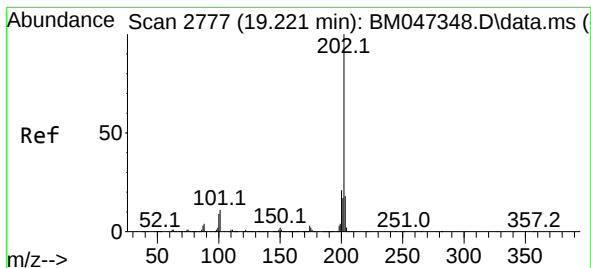
Ion Ratio Lower Upper

240 100

120 9.4 7.4 11.0

236 25.3 20.8 31.2





#78

Pyrene

Concen: 23.637 ng

RT: 19.221 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

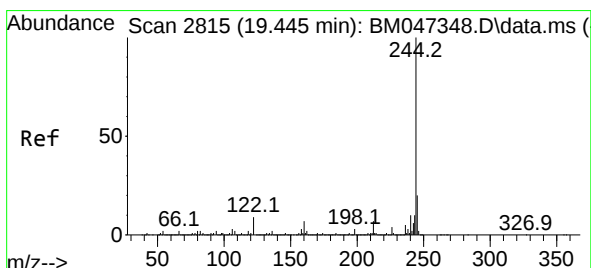
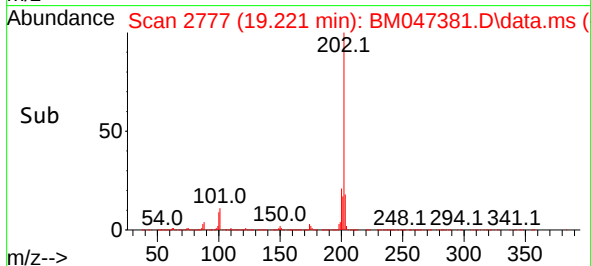
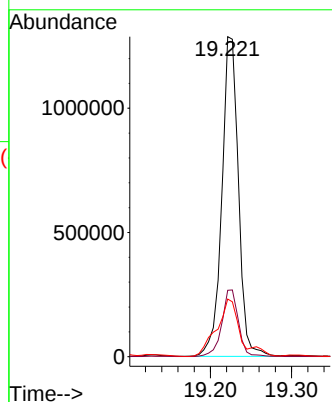
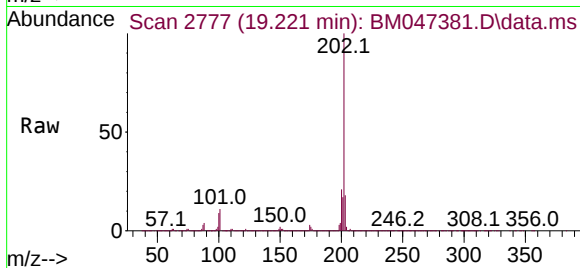
Tgt Ion:202 Resp: 1834896

Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 18.0 14.2 21.4



#79

Terphenyl-d14

Concen: 1.652 ng

RT: 19.445 min Scan# 2815

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

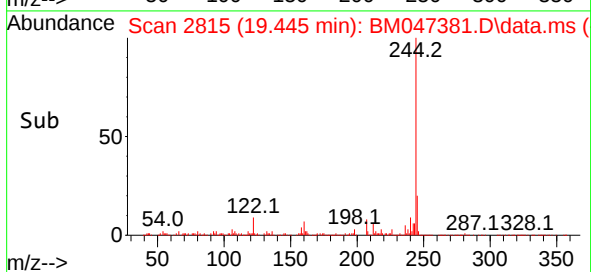
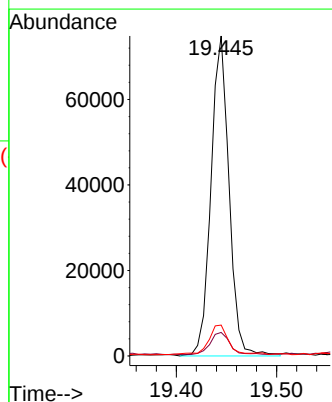
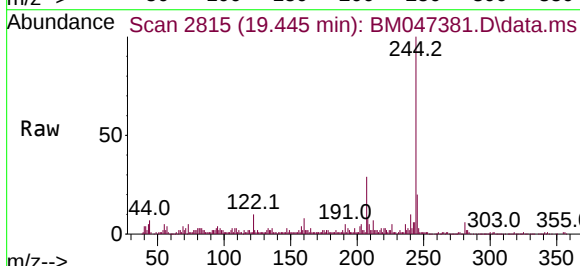
Tgt Ion:244 Resp: 93936

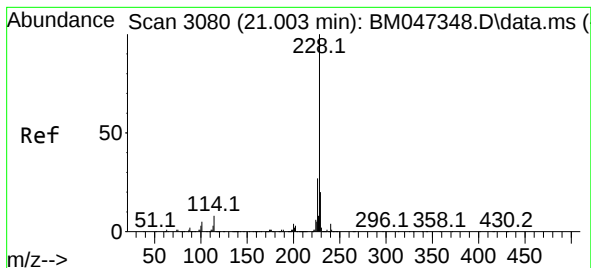
Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

122 9.6 7.0 10.4





#81

Benzo(a)anthracene

Concen: 11.202 ng

RT: 21.003 min Scan# 3080

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

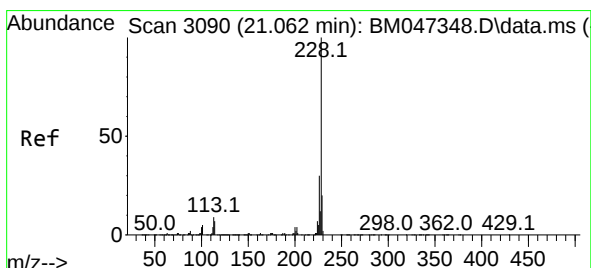
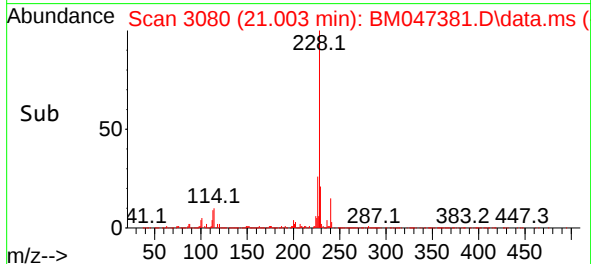
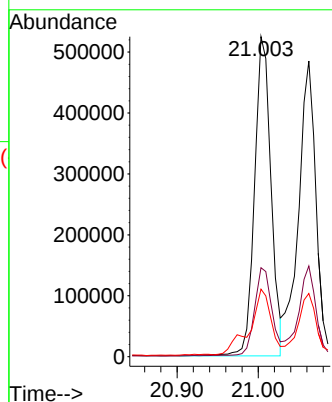
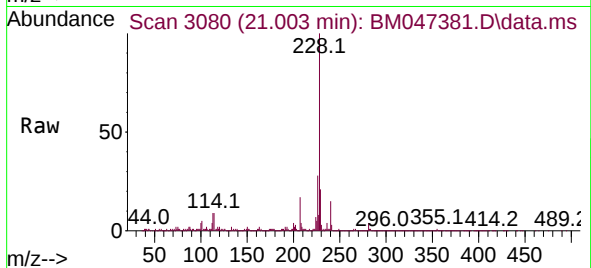
Tgt Ion:228 Resp: 739405

Ion Ratio Lower Upper

228 100

226 27.8 21.4 32.0

229 21.1 15.8 23.8



#83

Chrysene

Concen: 11.429 ng

RT: 21.062 min Scan# 3090

Delta R.T. 0.000 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

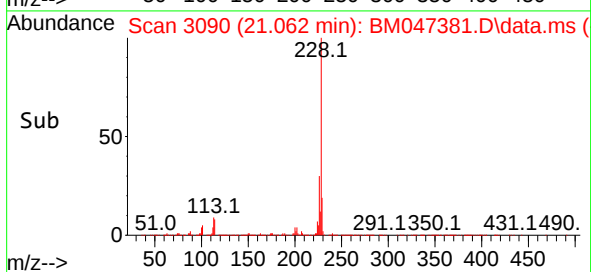
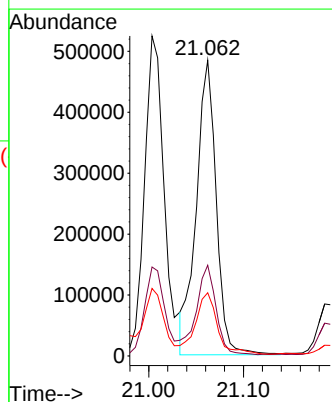
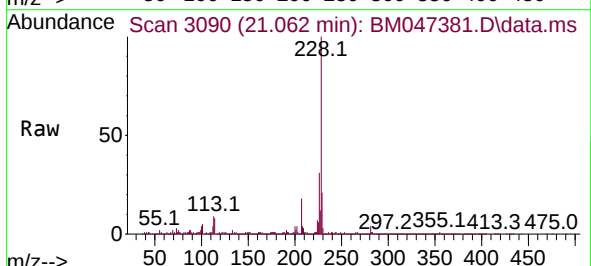
Tgt Ion:228 Resp: 709638

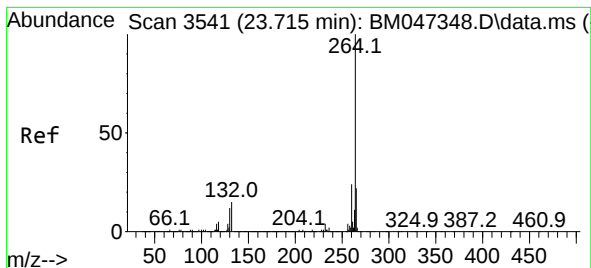
Ion Ratio Lower Upper

228 100

226 30.7 24.0 36.0

229 21.4 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.721 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

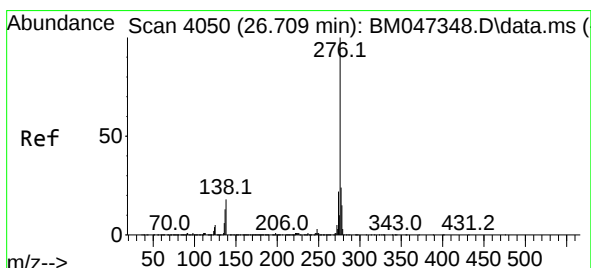
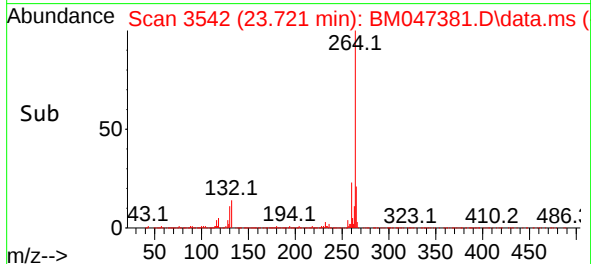
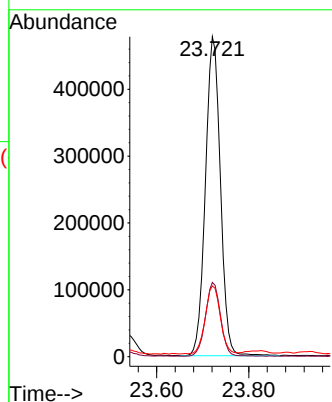
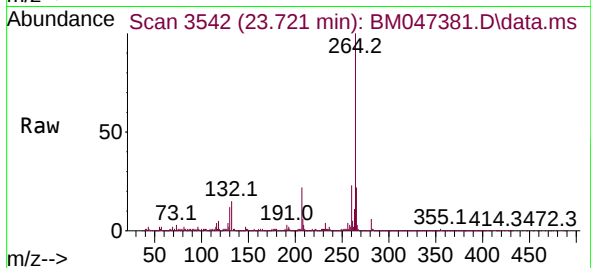
Tgt Ion:264 Resp: 1081777

Ion Ratio Lower Upper

264 100

260 23.2 19.0 28.4

265 22.1 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.257 ng

RT: 26.727 min Scan# 4053

Delta R.T. 0.018 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

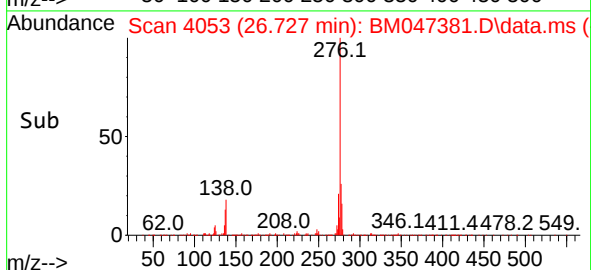
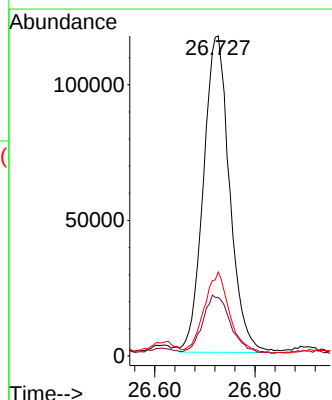
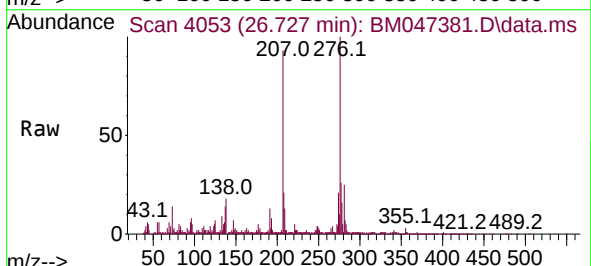
Tgt Ion:276 Resp: 423699

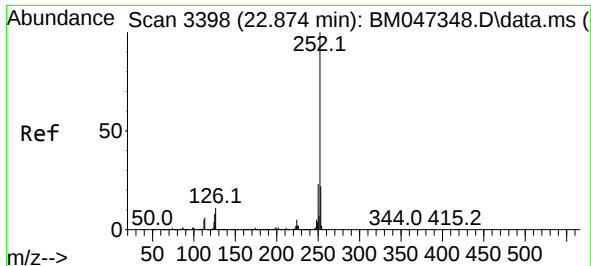
Ion Ratio Lower Upper

276 100

138 18.7 17.7 26.5

277 24.4 20.0 30.0

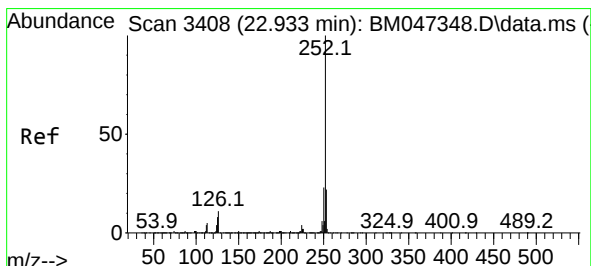
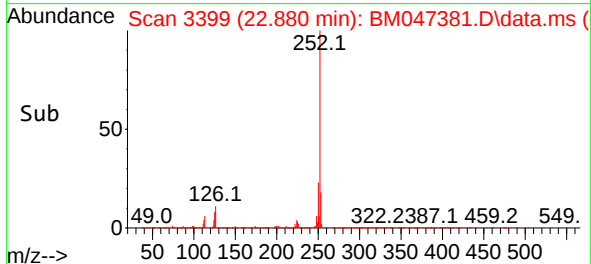
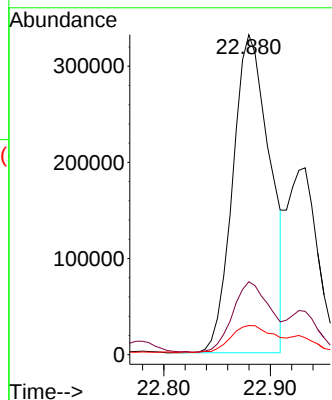
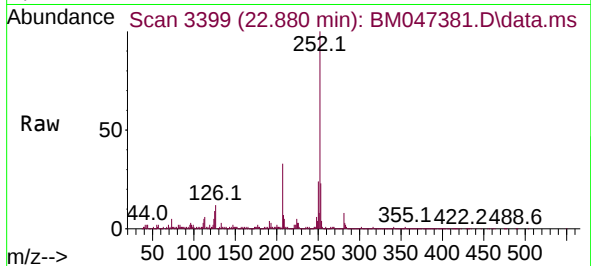




#88
Benzo(b)fluoranthene
Concen: 12.643 ng
RT: 22.880 min Scan# 31
Delta R.T. 0.006 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

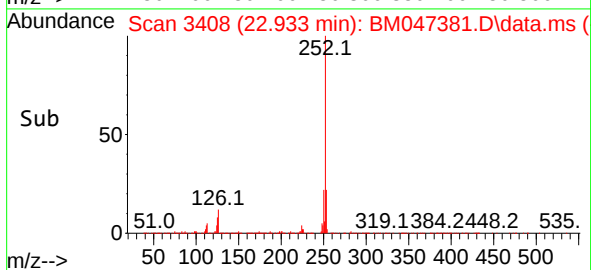
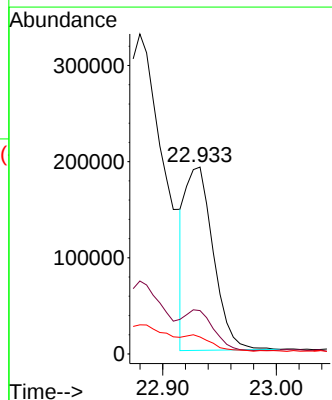
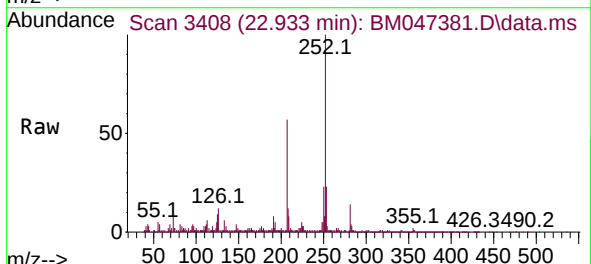
Instrument :
BNA_M
ClientSampleId :
SU-03-08232024DL2

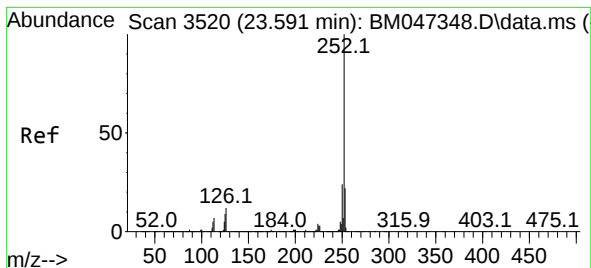
Tgt Ion:252 Resp: 797951
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.6
125 9.1 6.6 10.0



#89
Benzo(k)fluoranthene
Concen: 5.420 ng
RT: 22.933 min Scan# 3408
Delta R.T. 0.000 min
Lab File: BM047381.D
Acq: 28 Aug 2024 15:04

Tgt Ion:252 Resp: 324272
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 9.0 6.6 9.8





#90

Benzo(a)pyrene

Concen: 11.054 ng

RT: 23.597 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2

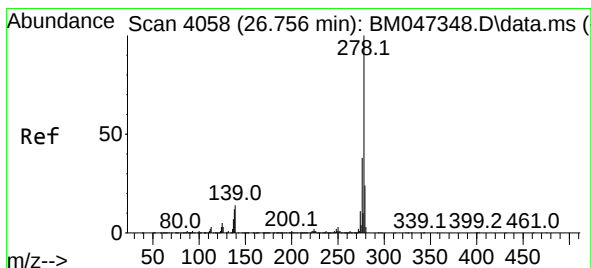
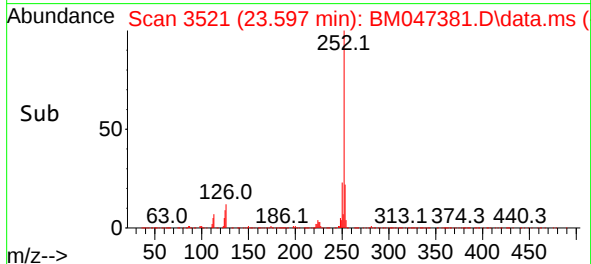
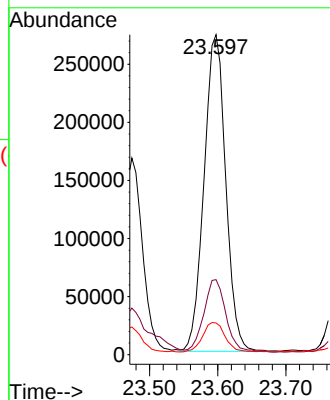
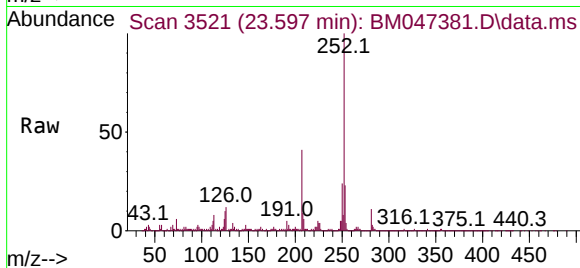
Tgt Ion:252 Resp: 603326

Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 9.9 7.4 11.2



#91

Dibenzo(a,h)anthracene

Concen: 2.362 ng

RT: 26.750 min Scan# 4057

Delta R.T. -0.006 min

Lab File: BM047381.D

Acq: 28 Aug 2024 15:04

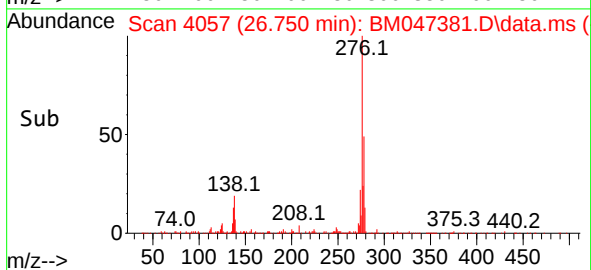
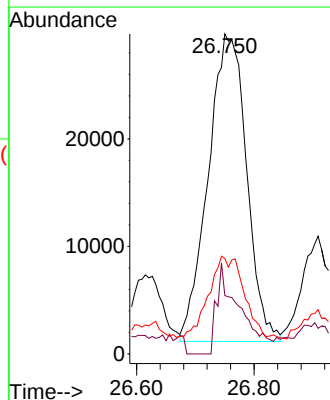
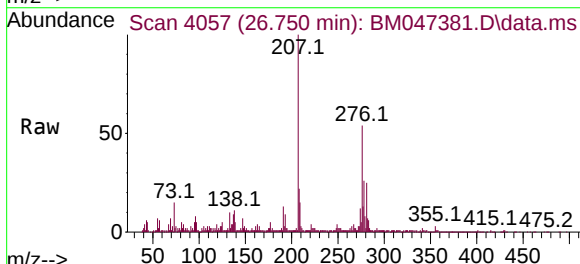
Tgt Ion:278 Resp: 129602

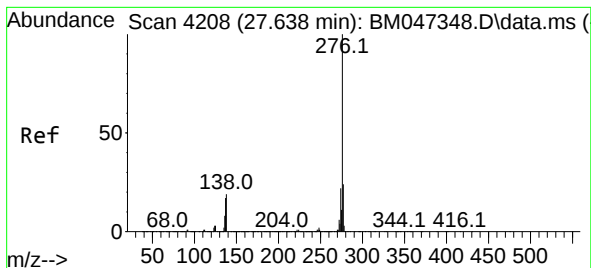
Ion Ratio Lower Upper

278 100

139 18.2 11.1 16.7#

279 29.9 19.2 28.8#





#92

Benzo(g,h,i)perylene

Concen: 7.003 ng

RT: 27.656 min Scan# 41

Delta R.T. 0.018 min

Lab File: BM047381.D

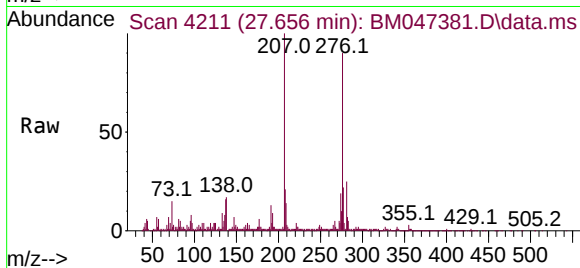
Acq: 28 Aug 2024 15:04

Instrument :

BNA_M

ClientSampleId :

SU-03-08232024DL2



Tgt Ion:276 Resp: 399430

Ion Ratio Lower Upper

276 100

277 24.6 19.4 29.0

138 19.2 15.0 22.6

