

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081624\
 Data File : BM047242.D
 Acq On : 16 Aug 2024 19:52
 Operator : RC/JU
 Sample : P3614-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OK-01-081424

Quant Time: Aug 16 23:21:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sun Aug 11 23:47:58 2024
 Response via : Initial Calibration

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

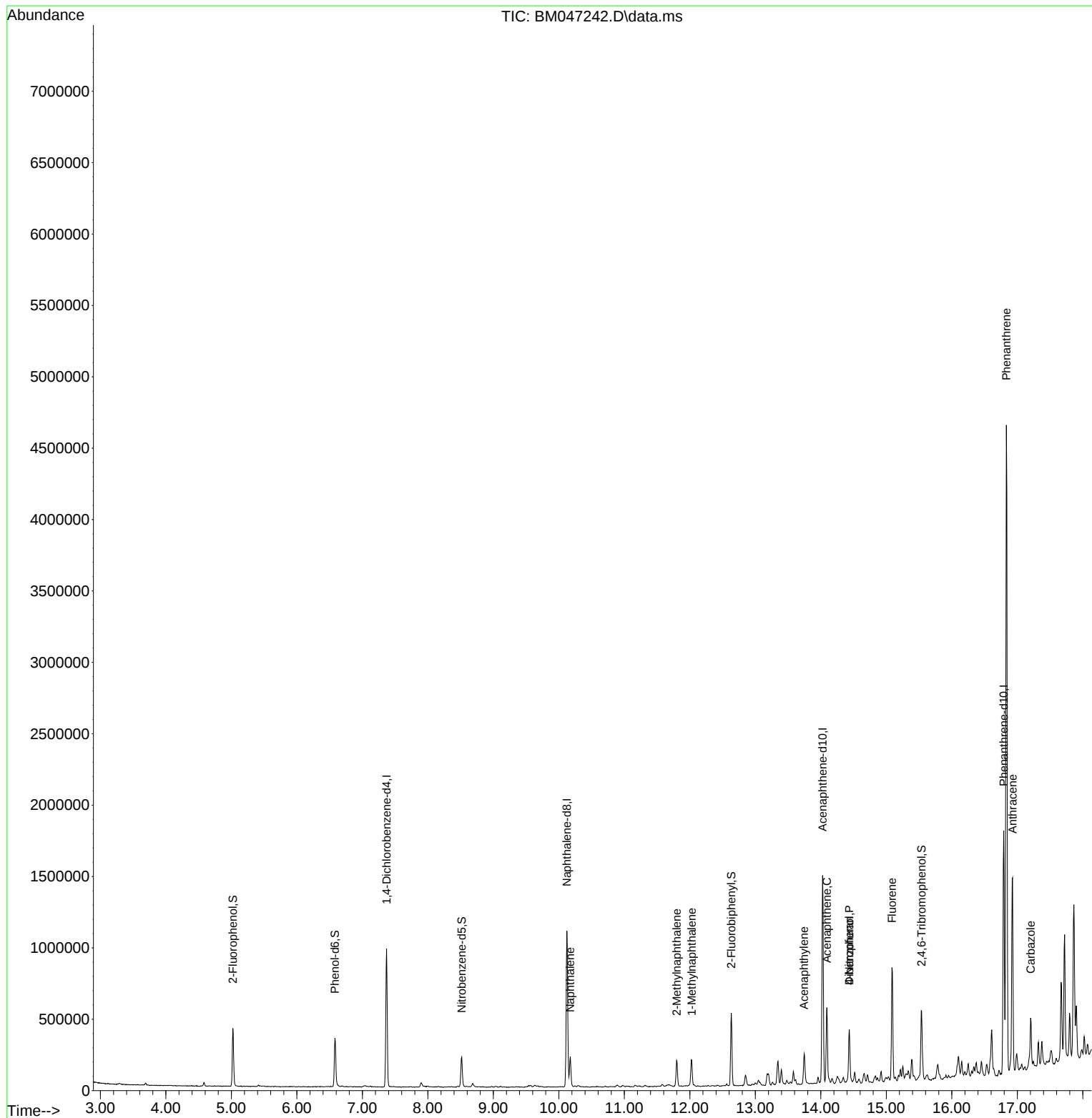
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.369	152	261667	20.000	ng	0.00
21) Naphthalene-d8	10.122	136	874718	20.000	ng	-0.01
39) Acenaphthene-d10	14.028	164	508085	20.000	ng	0.00
64) Phenanthrene-d10	16.792	188	1026867	20.000	ng	0.00
76) Chrysene-d12	21.033	240	834741	20.000	ng	0.00
86) Perylene-d12	23.739	264	969294	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.022	112	174489	11.915	ng	0.00
7) Phenol-d6	6.581	99	202949	10.058	ng	0.00
23) Nitrobenzene-d5	8.516	82	123488	7.109	ng	0.00
42) 2,4,6-Tribromophenol	15.539	330	64765	10.993	ng	0.00
45) 2-Fluorobiphenyl	12.634	172	269893	8.194	ng	-0.01
79) Terphenyl-d14	19.457	244	361182	9.271	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.546	77	602	Below Cal	#	49
31) Naphthalene	10.175	128	159501	3.660	ng	100
37) 2-Methylnaphthalene	11.798	142	87983	2.836	ng	98
38) 1-Methylnaphthalene	12.028	142	89673	2.924	ng	94
49) Acenaphthylene	13.745	152	161772	3.882	ng	98
52) Acenaphthene	14.092	154	191879	7.259	ng	99
55) Dibenzofuran	14.434	168	219524	5.257	ng	96
56) 4-Nitrophenol	14.434	139	78750	10.987	ng	# 9
58) Fluorene	15.086	166	361325	10.488	ng	98
71) Phenanthrene	16.833	178	2754843	53.456	ng	100
72) Anthracene	16.928	178	878575	17.521	ng	99
73) Carbazole	17.204	167	228071	4.455	ng	100
75) Fluoranthene	18.869	202	3574375	57.023	ng	99
78) Pyrene	19.239	202	2966780	49.776	ng	99
81) Benzo(a)anthracene	21.015	228	1434525	25.887	ng	97
83) Chrysene	21.015	228	1434525	27.285	ng	98
87) Indeno(1,2,3-cd)pyrene	26.745	276	764283	12.199	ng	95
88) Benzo(b)fluoranthene	22.898	252	1483616	25.774	ng	97
89) Benzo(k)fluoranthene	22.898	252	1483616	27.287	ng	97
90) Benzo(a)pyrene	23.609	252	1177960	23.623	ng	97
91) Dibenzo(a,h)anthracene	26.774	278	206709	4.077	ng	# 76
92) Benzo(g,h,i)perylene	27.680	276	739359	14.045	ng	97

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

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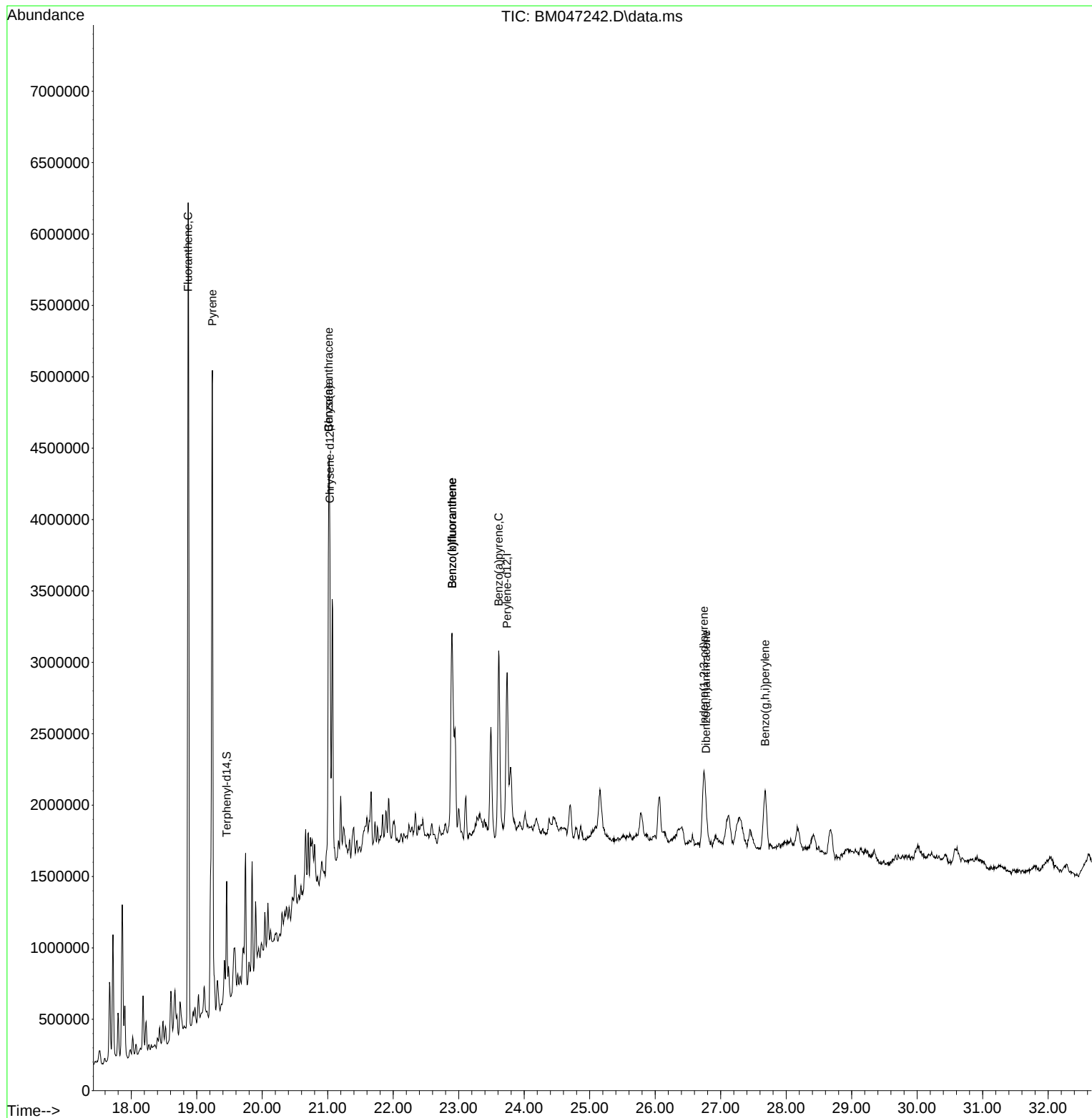
Quant Time: Aug 16 23:21:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sun Aug 11 23:47:58 2024
Response via : Initial Calibration

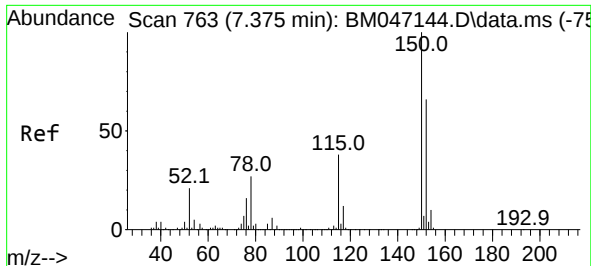


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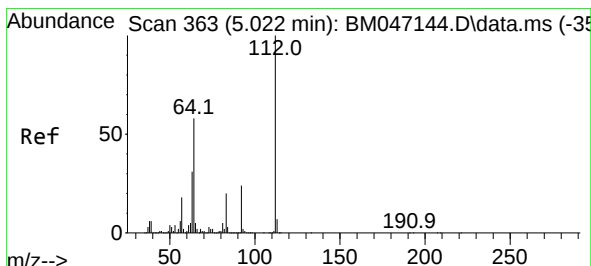
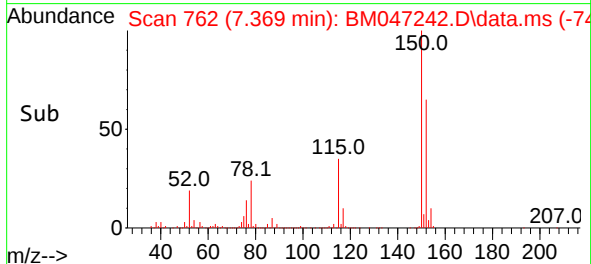
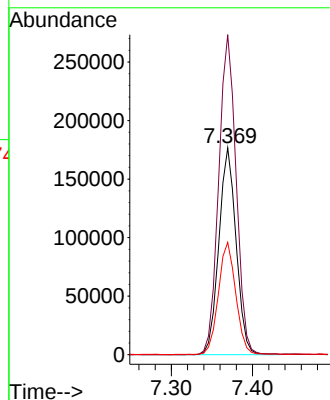
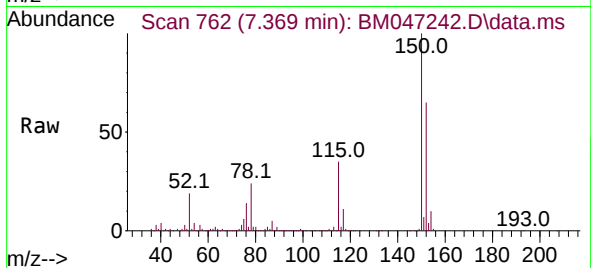




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.369 min Scan# 763
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

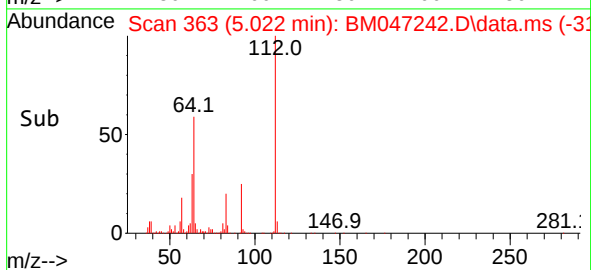
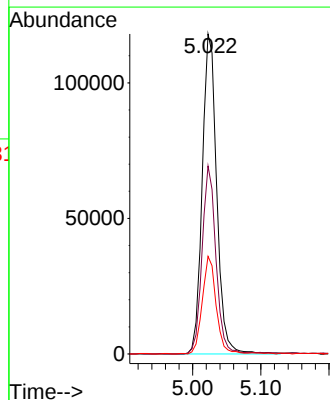
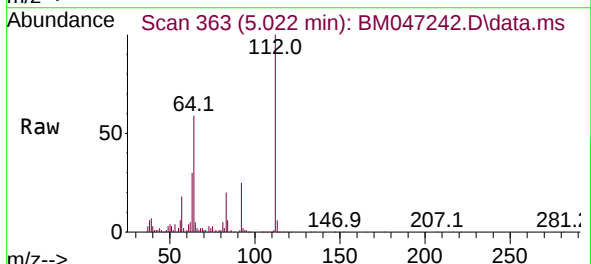
Instrument :
BNA_M
ClientSampleId :
OK-01-081424

Tgt Ion:152 Resp: 261667
Ion Ratio Lower Upper
152 100
150 154.6 120.5 180.7
115 54.3 45.5 68.3



#5
2-Fluorophenol
Concen: 11.915 ng
RT: 5.022 min Scan# 363
Delta R.T. 0.000 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion:112 Resp: 174489
Ion Ratio Lower Upper
112 100
64 58.8 46.7 70.1
63 30.5 24.8 37.2

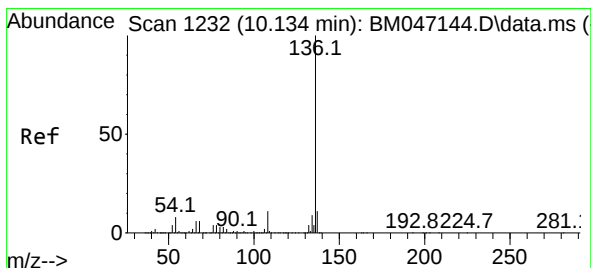
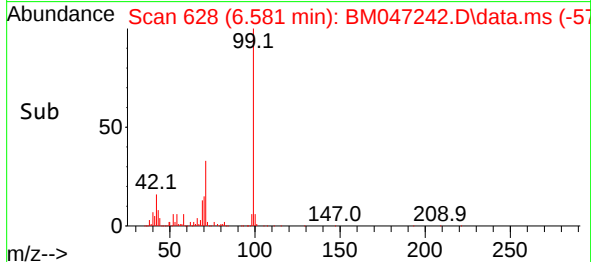
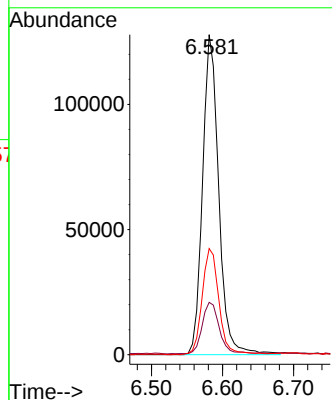
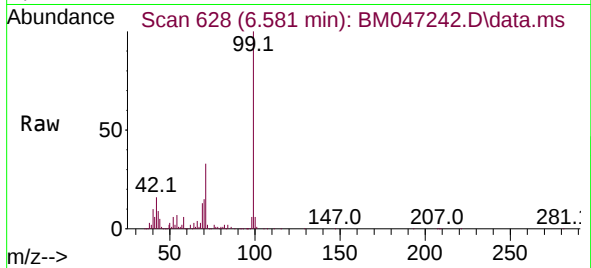




#7
Phenol-d6
Concen: 10.058 ng
RT: 6.581 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

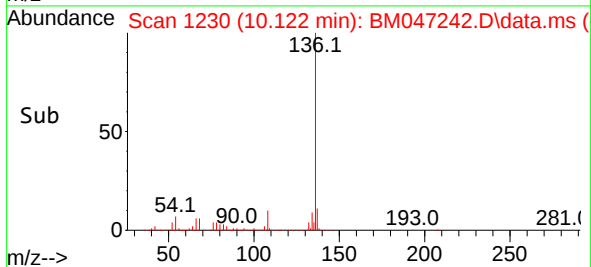
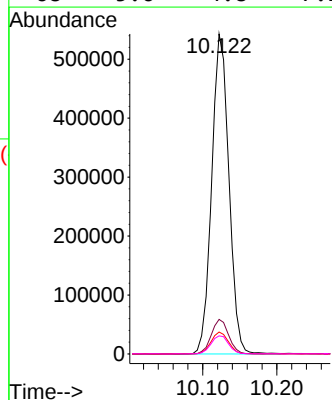
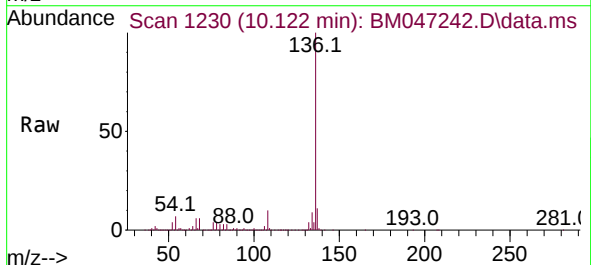
Instrument :
BNA_M
ClientSampleId :
OK-01-081424

Tgt Ion: 99 Resp: 202949
Ion Ratio Lower Upper
99 100
42 16.4 14.1 21.1
71 33.2 28.5 42.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.122 min Scan# 1230
Delta R.T. -0.012 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion: 136 Resp: 874718
Ion Ratio Lower Upper
136 100
137 10.8 8.8 13.2
54 6.9 6.0 9.0
68 5.6 4.8 7.2

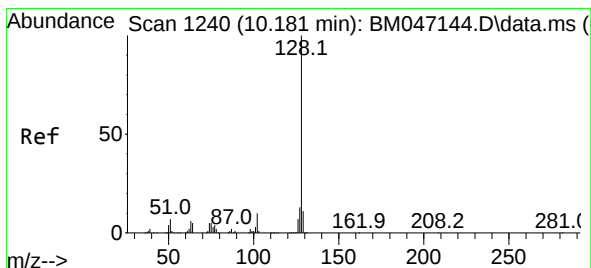
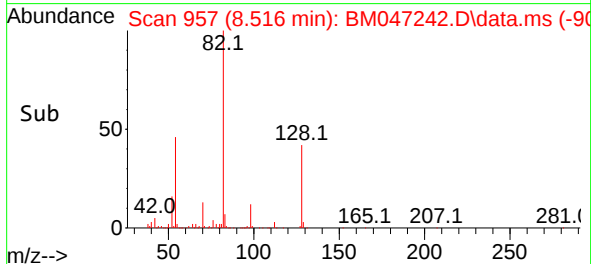
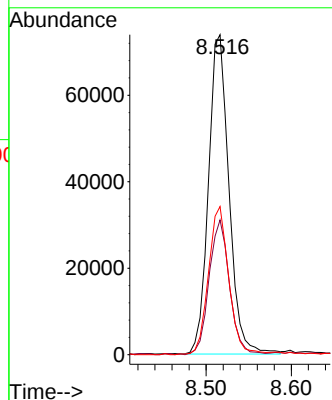
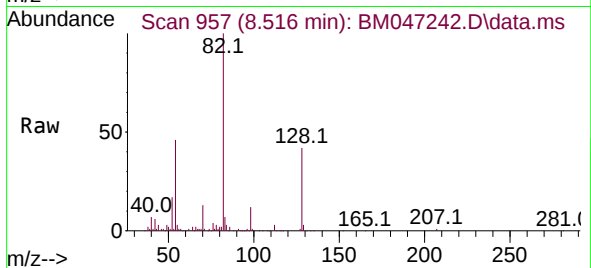




#23
Nitrobenzene-d5
Concen: 7.109 ng
RT: 8.516 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

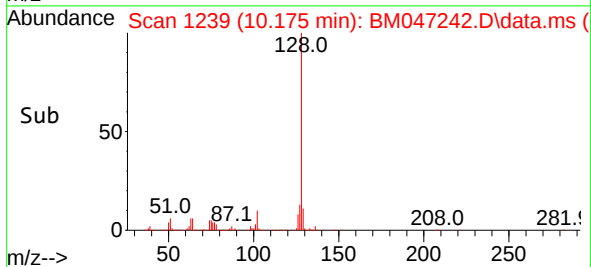
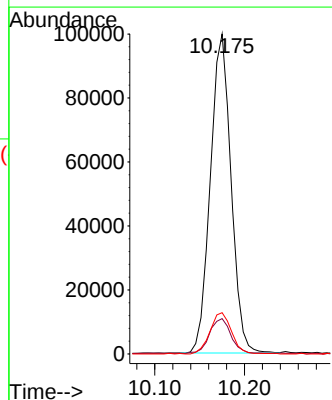
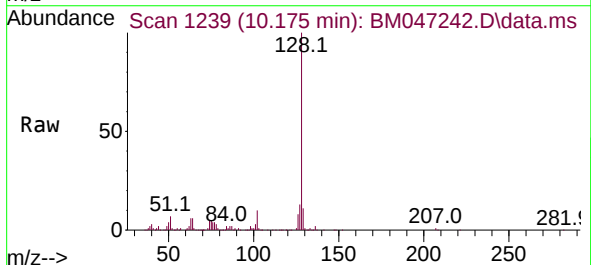
Instrument :
BNA_M
ClientSampleId :
OK-01-081424

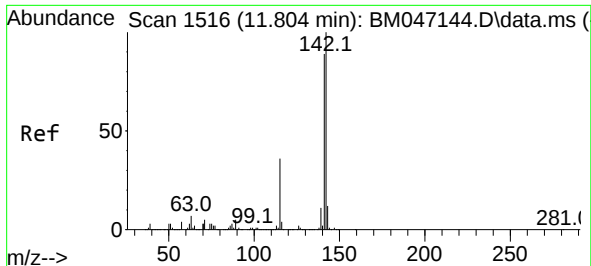
Tgt Ion: 82 Resp: 123488
Ion Ratio Lower Upper
82 100
128 42.1 32.3 48.5
54 46.3 37.4 56.2



#31
Naphthalene
Concen: 3.660 ng
RT: 10.175 min Scan# 1239
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion: 128 Resp: 159501
Ion Ratio Lower Upper
128 100
129 11.0 8.6 13.0
127 12.9 10.2 15.4

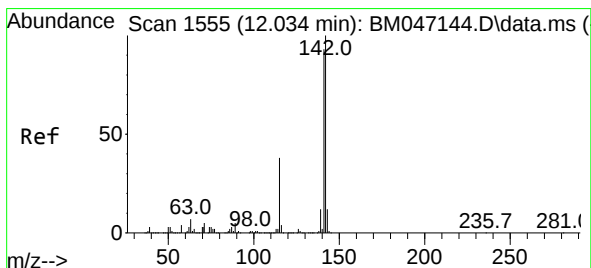
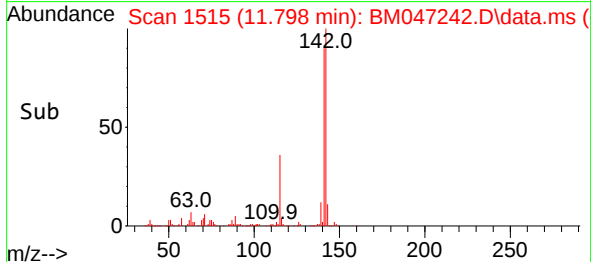
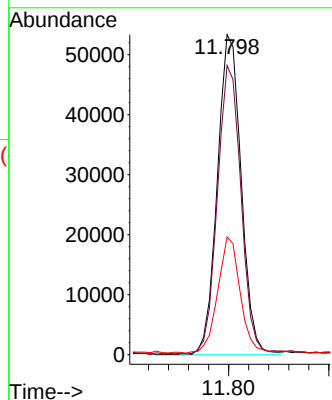
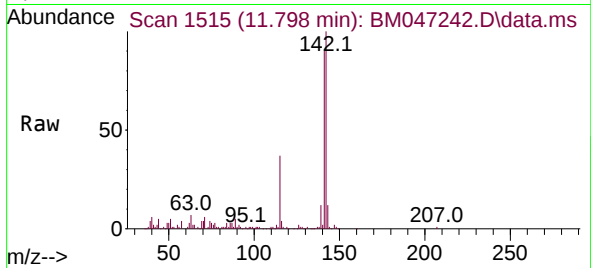




#37
2-Methylnaphthalene
Concen: 2.836 ng
RT: 11.798 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

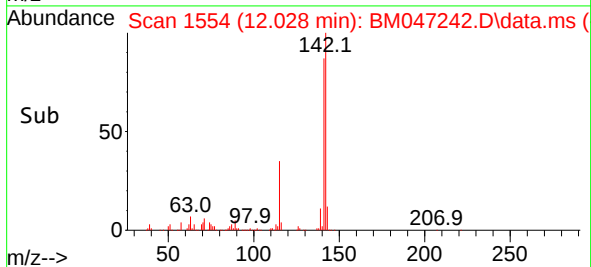
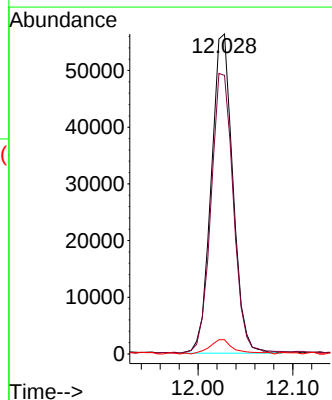
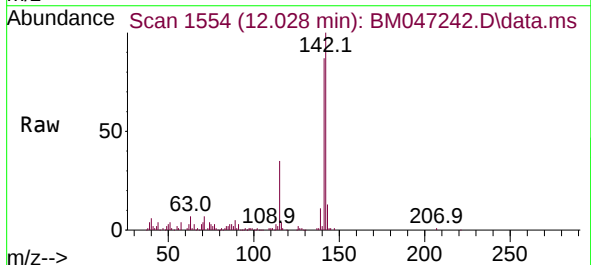
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BNA_M
ClientSampleId :
OK-01-081424

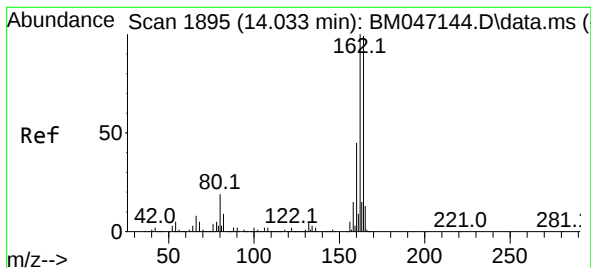
Tgt Ion:142 Resp: 87983
Ion Ratio Lower Upper
142 100
141 90.4 70.9 106.3
115 36.7 28.7 43.1



#38
1-Methylnaphthalene
Concen: 2.924 ng
RT: 12.028 min Scan# 1554
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion:142 Resp: 89673
Ion Ratio Lower Upper
142 100
141 87.1 74.6 111.8
116 4.5 3.1 4.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.028 min Scan# 1894

Delta R.T. -0.006 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

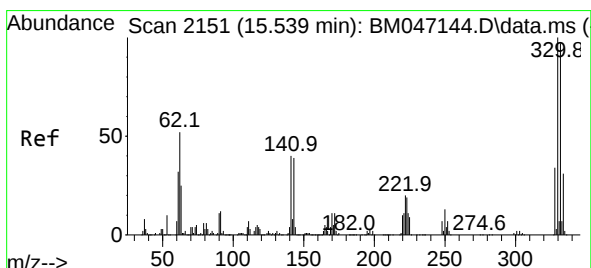
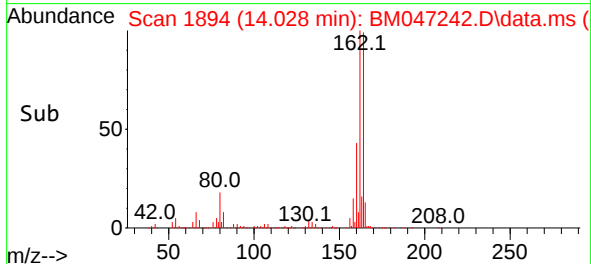
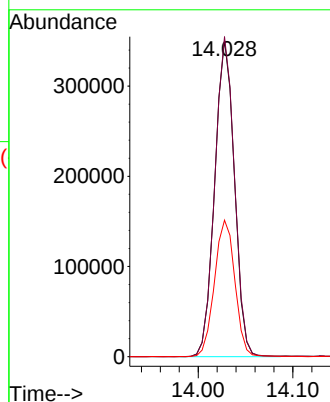
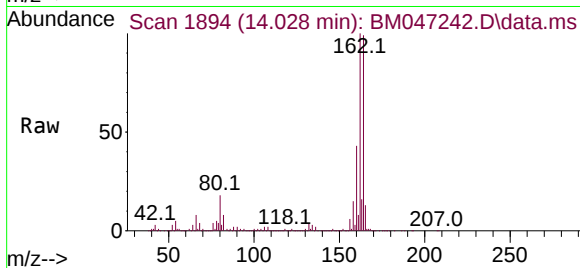
Tgt Ion:164 Resp: 508085

Ion Ratio Lower Upper

164 100

162 101.2 80.7 121.1

160 43.2 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 10.993 ng

RT: 15.539 min Scan# 2151

Delta R.T. 0.000 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

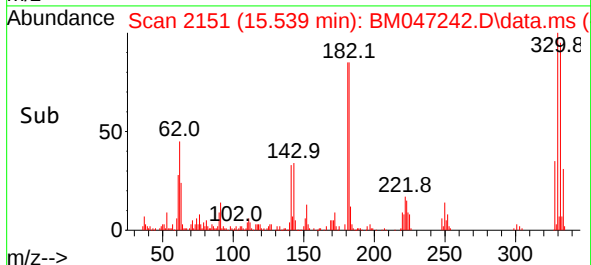
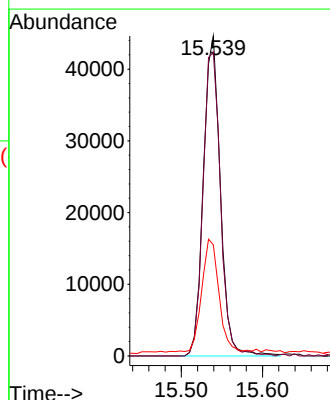
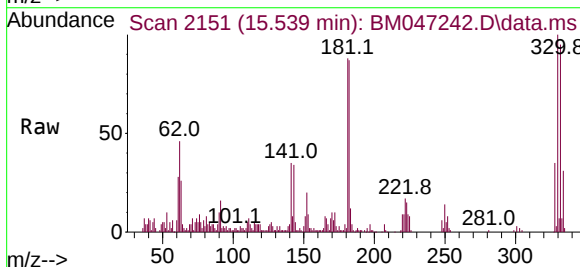
Tgt Ion:330 Resp: 64765

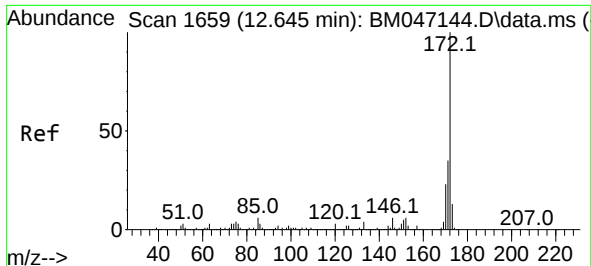
Ion Ratio Lower Upper

330 100

332 97.6 77.4 116.2

141 36.0 31.6 47.4

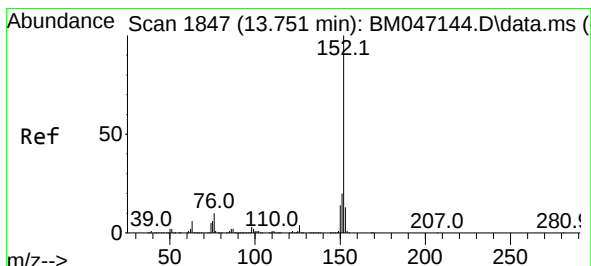
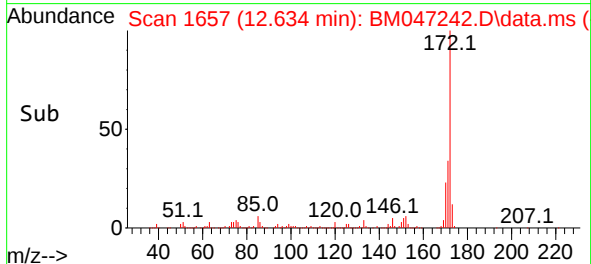
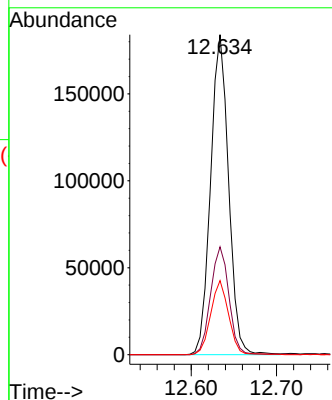
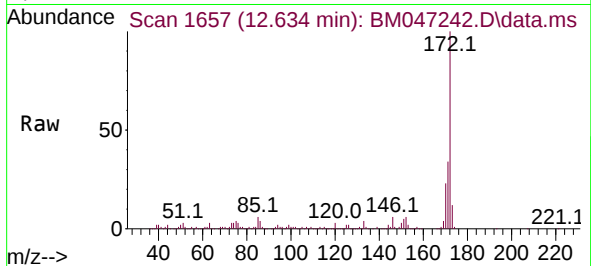




#45
2-Fluorobiphenyl
Concen: 8.194 ng
RT: 12.634 min Scan# 1
Delta R.T. -0.011 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

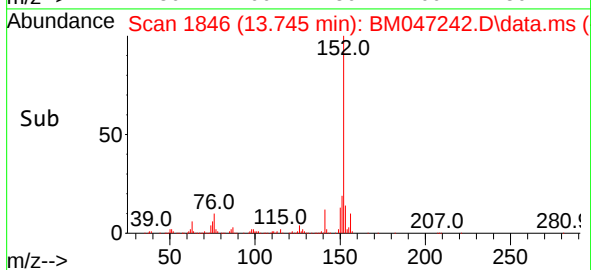
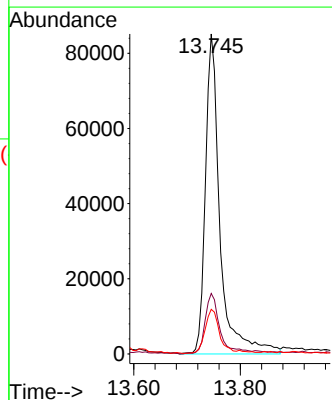
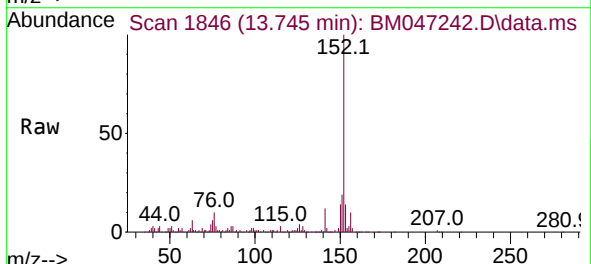
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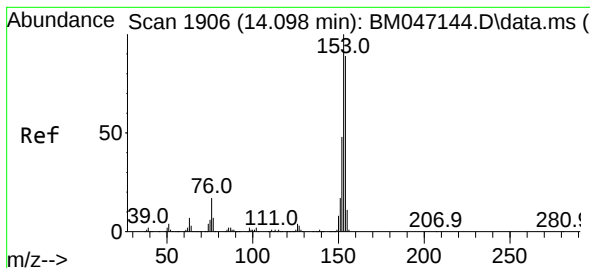
Tgt Ion:172 Resp: 269893
Ion Ratio Lower Upper
172 100
171 33.7 27.8 41.6
170 23.2 18.7 28.1



#49
Acenaphthylene
Concen: 3.882 ng
RT: 13.745 min Scan# 1846
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion:152 Resp: 161772
Ion Ratio Lower Upper
152 100
151 18.9 15.8 23.6
153 13.9 10.4 15.6





#52

Acenaphthene

Concen: 7.259 ng

RT: 14.092 min Scan# 1906

Delta R.T. -0.006 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

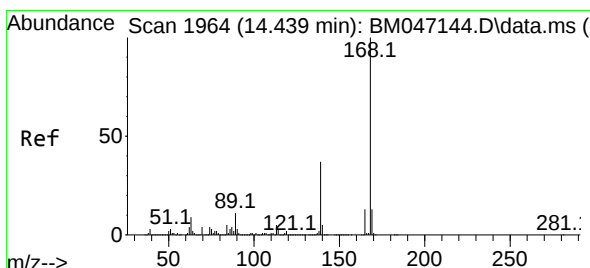
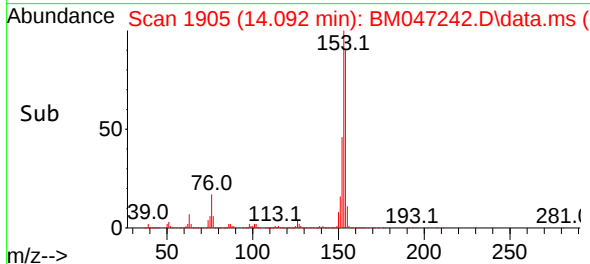
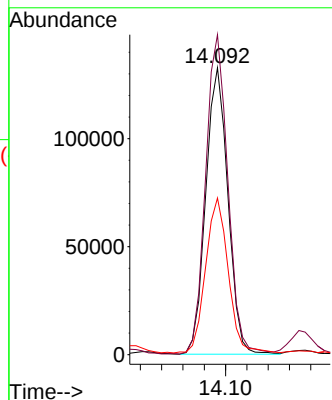
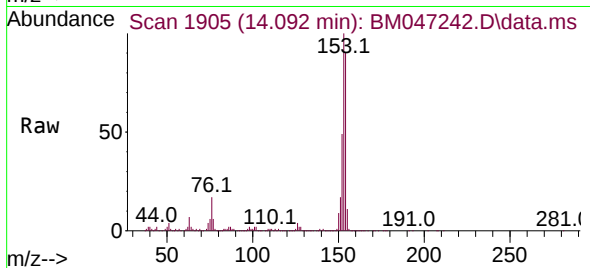
Tgt Ion:154 Resp: 191879

Ion Ratio Lower Upper

154 100

153 111.5 90.3 135.5

152 54.6 42.9 64.3



#55

Dibenzofuran

Concen: 5.257 ng

RT: 14.434 min Scan# 1963

Delta R.T. -0.006 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

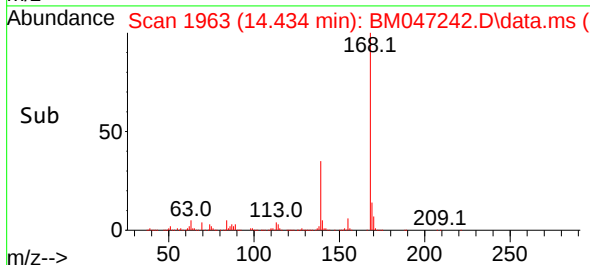
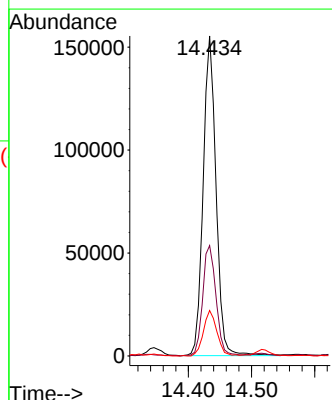
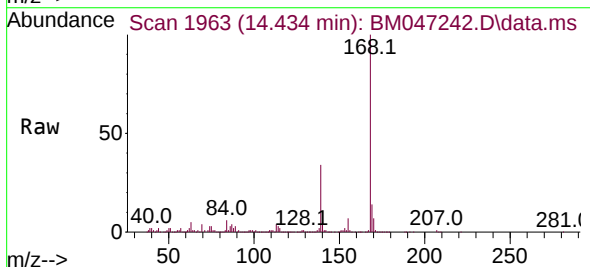
Tgt Ion:168 Resp: 219524

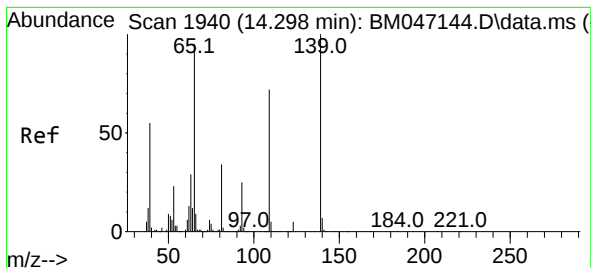
Ion Ratio Lower Upper

168 100

139 34.5 29.6 44.4

169 14.2 10.7 16.1

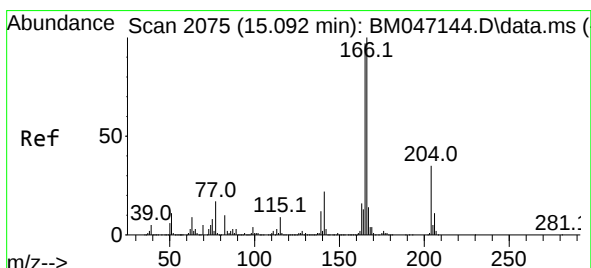
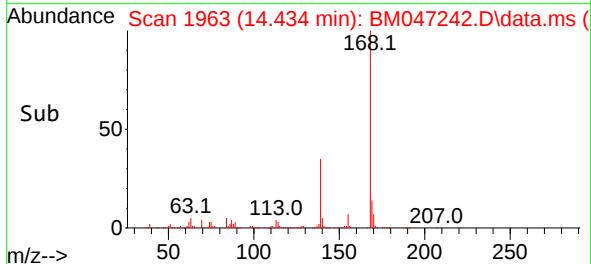
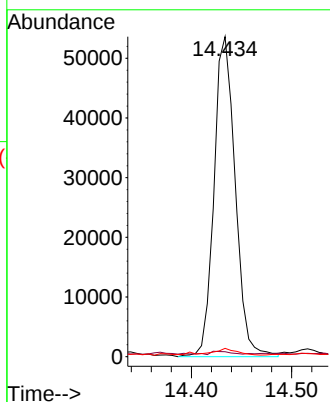
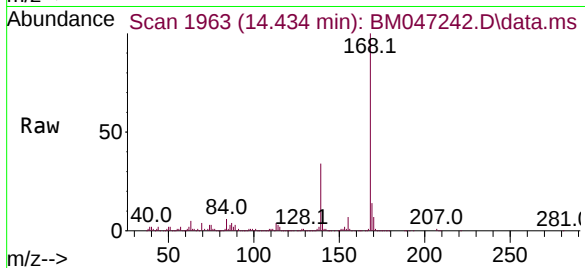




#56
4-Nitrophenol
Concen: 10.987 ng
RT: 14.434 min Scan# 1940
Delta R.T. 0.136 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

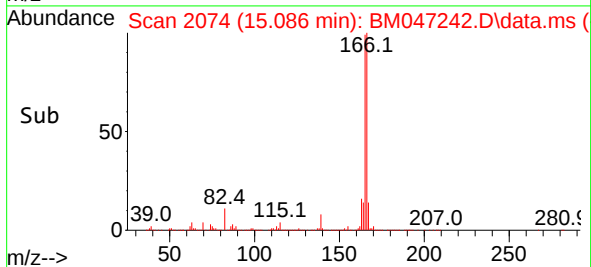
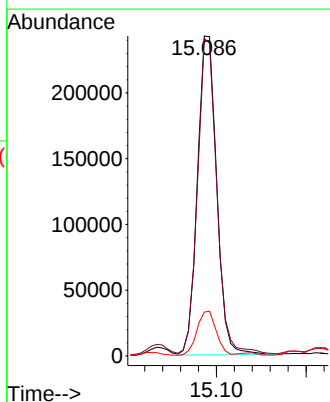
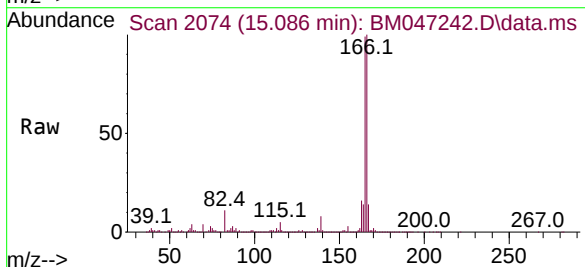
Instrument :
BNA_M
ClientSampleId :
OK-01-081424

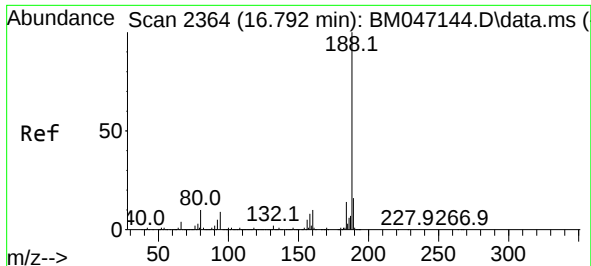
Tgt Ion:139 Resp: 78750
Ion Ratio Lower Upper
139 100
109 1.5 52.5 92.5#
65 2.6 75.4 115.4#



#58
Fluorene
Concen: 10.488 ng
RT: 15.086 min Scan# 2074
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion:166 Resp: 361325
Ion Ratio Lower Upper
166 100
165 99.2 77.4 116.0
167 13.7 11.0 16.6

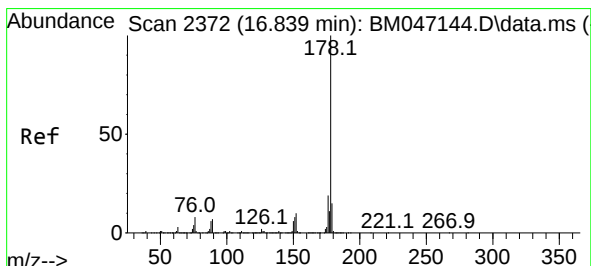
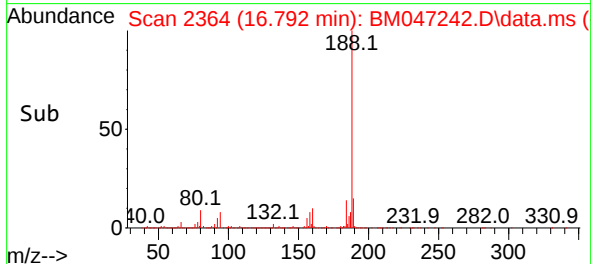
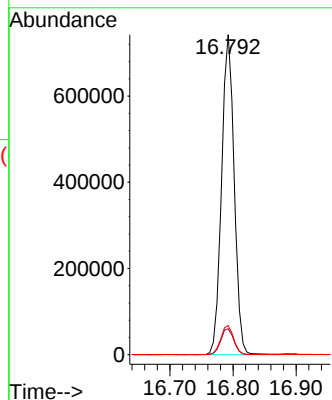
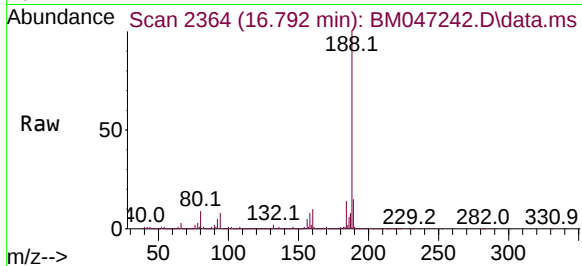




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.792 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

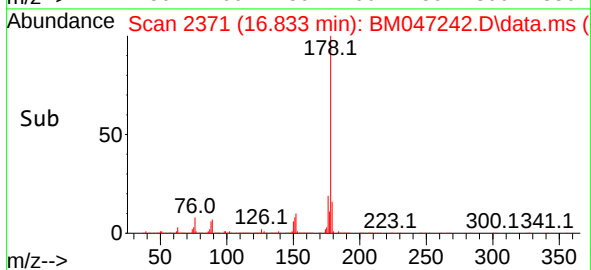
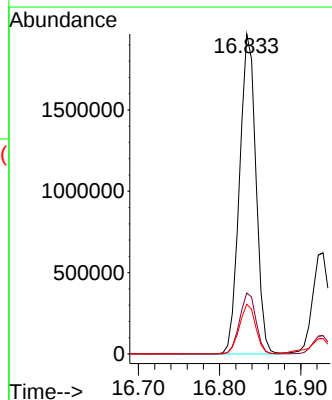
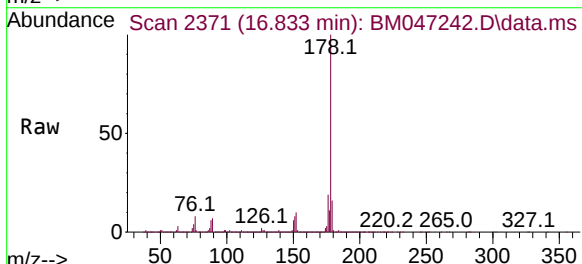
Instrument :
BNA_M
ClientSampleId :
OK-01-081424

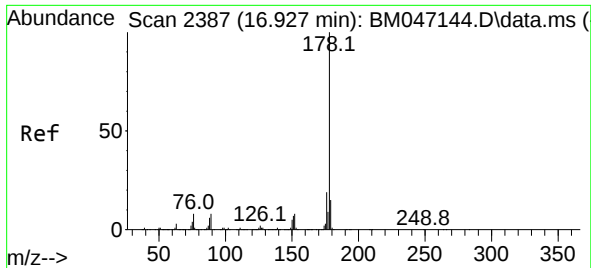
Tgt Ion:188 Resp: 1026867
Ion Ratio Lower Upper
188 100
94 8.1 7.0 10.6
80 9.1 8.0 12.0



#71
Phenanthrene
Concen: 53.456 ng
RT: 16.833 min Scan# 2371
Delta R.T. -0.006 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion:178 Resp: 2754843
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.6 12.4 18.6

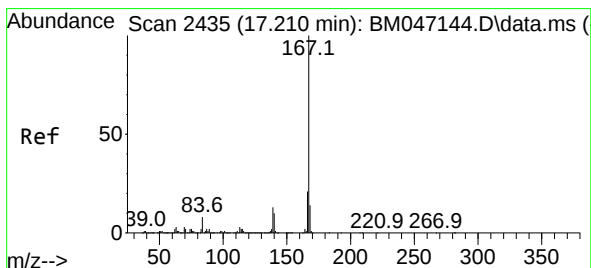
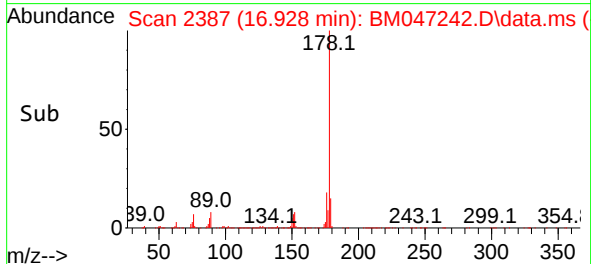
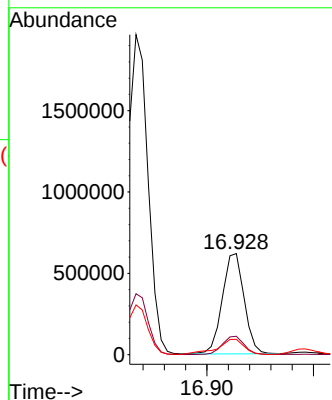
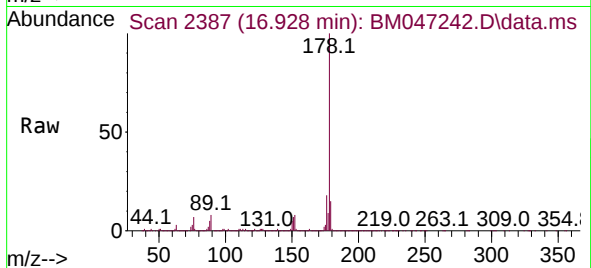




#72
 Anthracene
 Concen: 17.521 ng
 RT: 16.928 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BM047242.D
 Acq: 16 Aug 2024 19:52

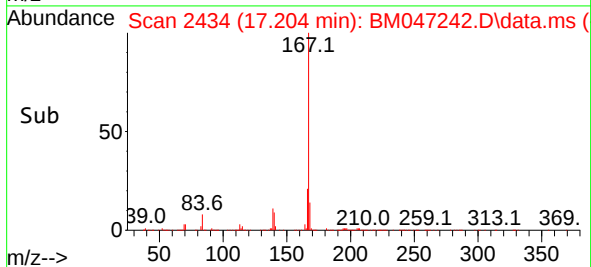
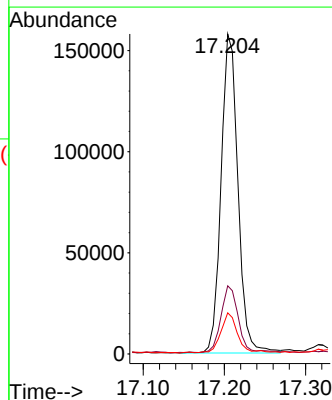
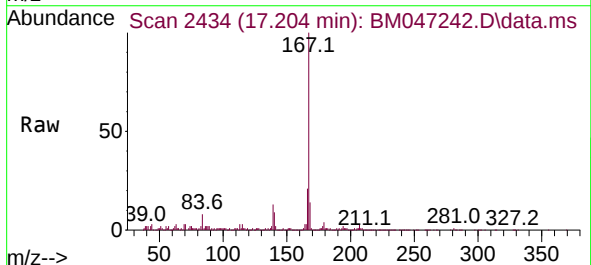
Instrument :
 BNA_M
 ClientSampleId :
 OK-01-081424

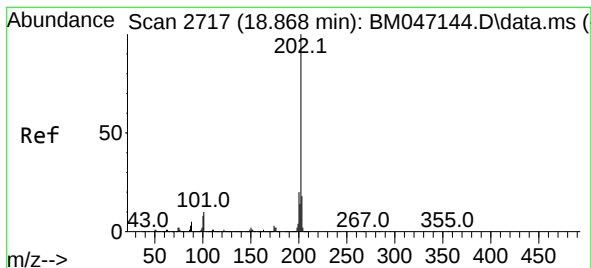
Tgt Ion:178 Resp: 878575
 Ion Ratio Lower Upper
 178 100
 176 18.2 14.8 22.2
 179 15.2 12.4 18.6



#73
 Carbazole
 Concen: 4.455 ng
 RT: 17.204 min Scan# 2434
 Delta R.T. -0.006 min
 Lab File: BM047242.D
 Acq: 16 Aug 2024 19:52

Tgt Ion:167 Resp: 228071
 Ion Ratio Lower Upper
 167 100
 166 21.3 17.1 25.7
 139 12.9 10.0 15.0





#75

Fluoranthene

Concen: 57.023 ng

RT: 18.869 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

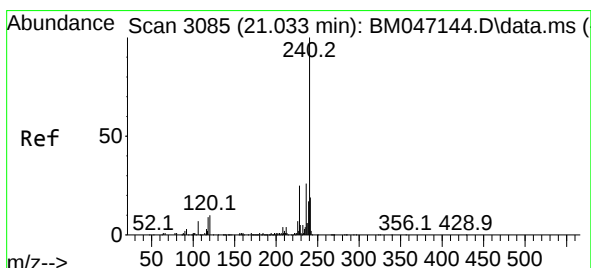
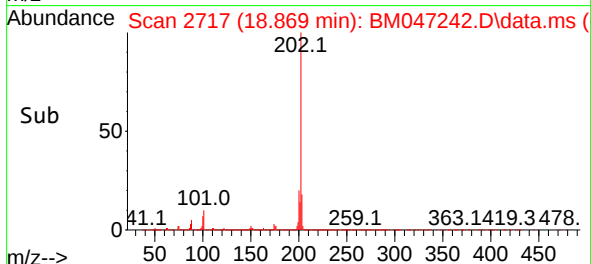
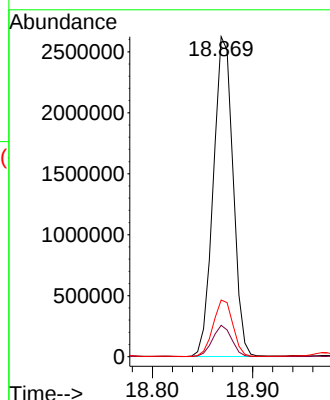
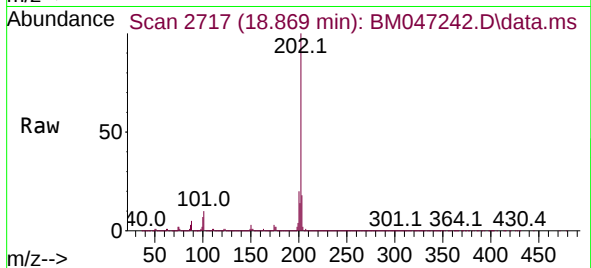
Tgt Ion:202 Resp: 3574375

Ion Ratio Lower Upper

202 100

101 9.8 0.0 30.2

203 17.7 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.033 min Scan# 3085

Delta R.T. 0.000 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

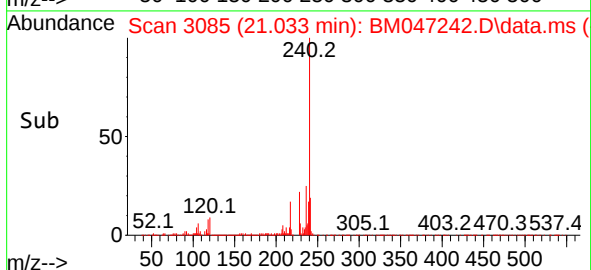
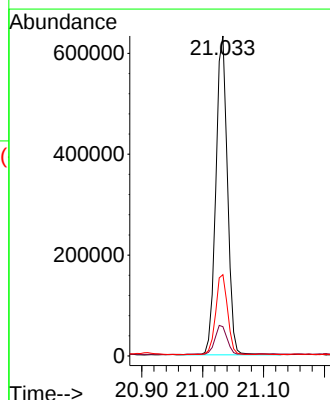
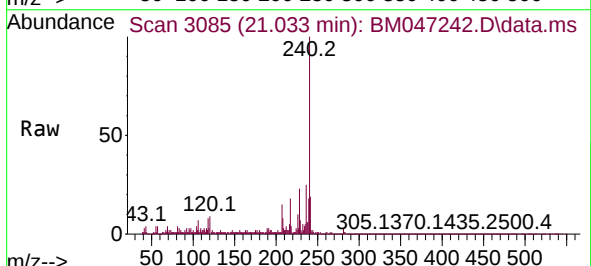
Tgt Ion:240 Resp: 834741

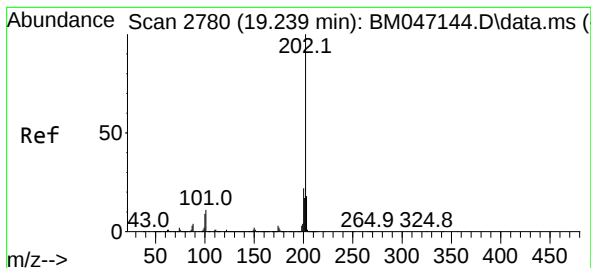
Ion Ratio Lower Upper

240 100

120 9.1 8.2 12.2

236 25.4 20.6 30.8





#78

Pyrene

Concen: 49.776 ng

RT: 19.239 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

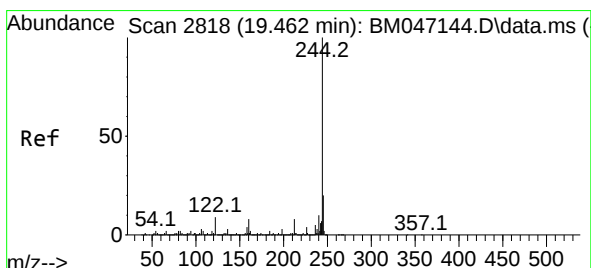
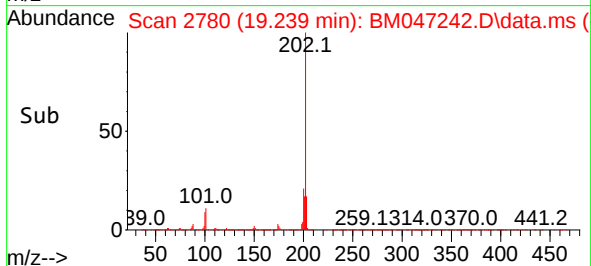
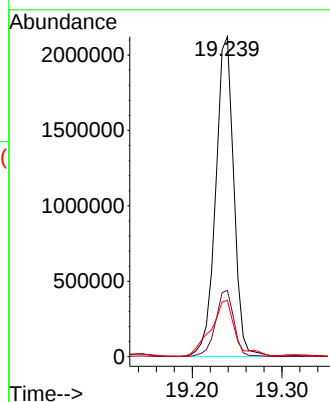
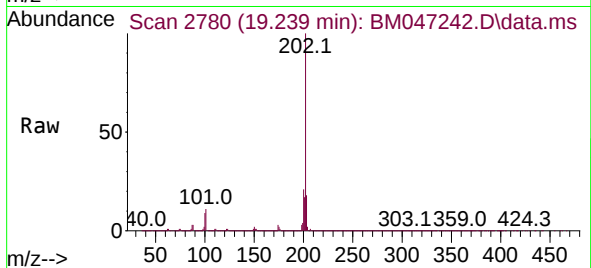
Tgt Ion:202 Resp: 2966780

Ion Ratio Lower Upper

202 100

200 20.8 17.2 25.8

203 17.6 14.2 21.2



#79

Terphenyl-d14

Concen: 9.271 ng

RT: 19.457 min Scan# 2817

Delta R.T. -0.006 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

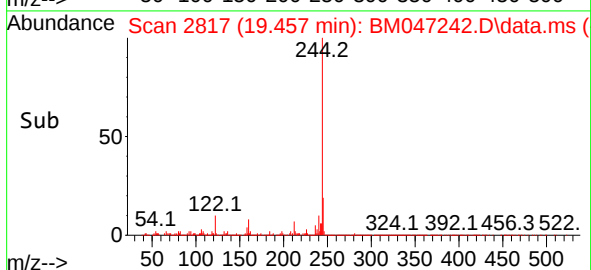
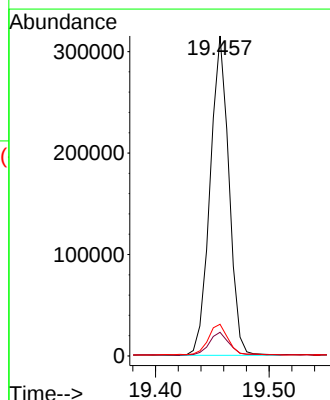
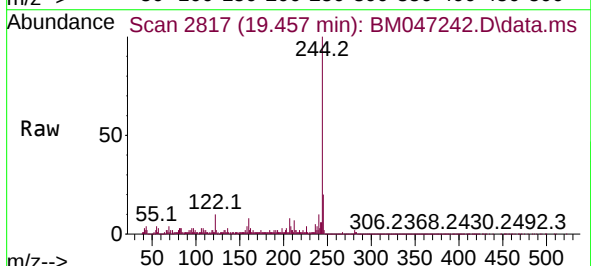
Tgt Ion:244 Resp: 361182

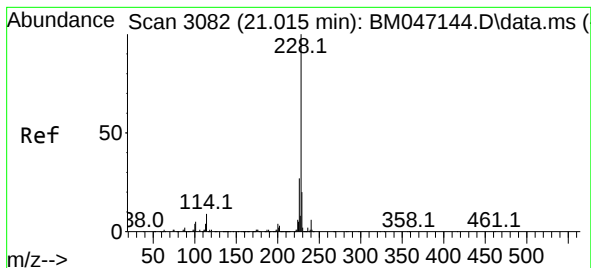
Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.4

122 9.9 7.1 10.7





#81

Benzo(a)anthracene

Concen: 25.887 ng

RT: 21.015 min Scan# 3082

Delta R.T. 0.000 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

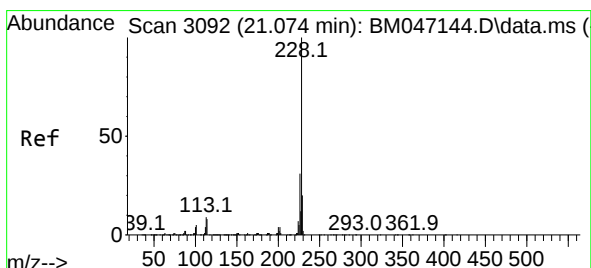
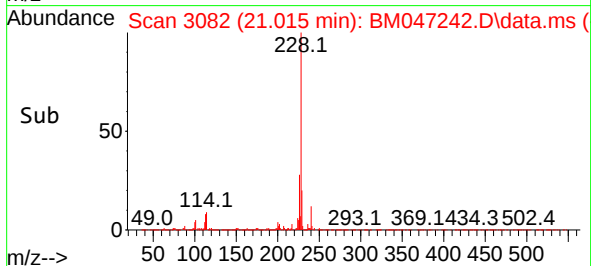
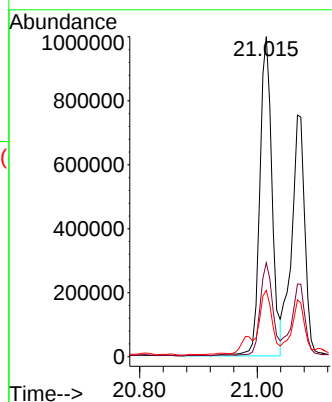
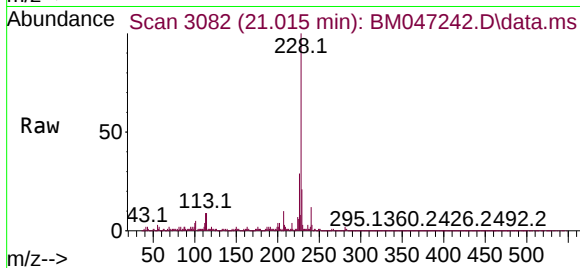
Tgt Ion:228 Resp: 1434525

Ion Ratio Lower Upper

228 100

226 29.3 21.8 32.6

229 20.7 15.8 23.8



#83

Chrysene

Concen: 27.285 ng

RT: 21.015 min Scan# 3082

Delta R.T. -0.059 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

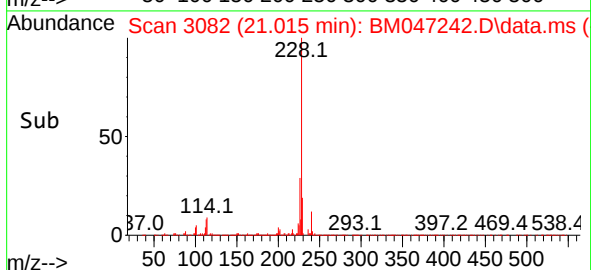
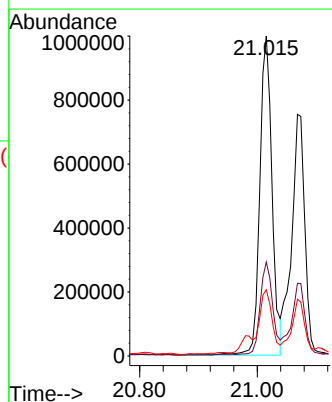
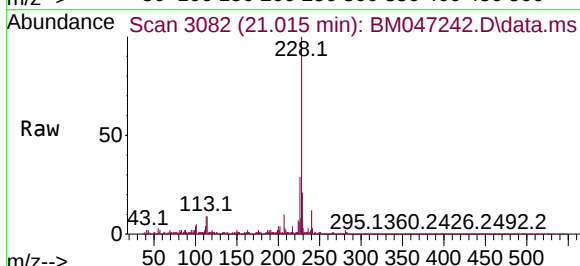
Tgt Ion:228 Resp: 1434525

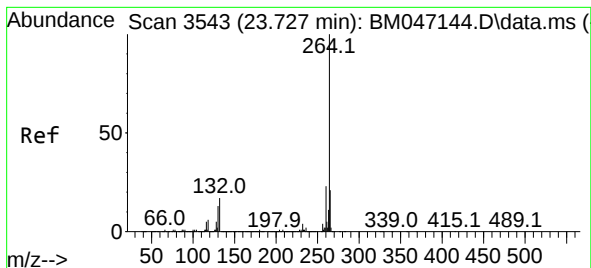
Ion Ratio Lower Upper

228 100

226 29.3 24.4 36.6

229 20.7 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.739 min Scan# 3

Delta R.T. 0.012 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

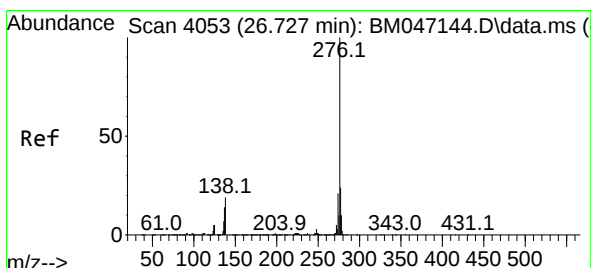
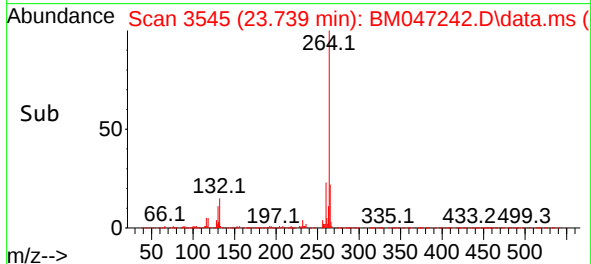
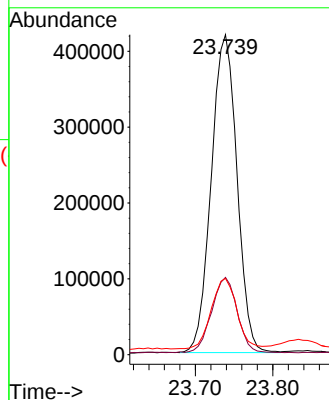
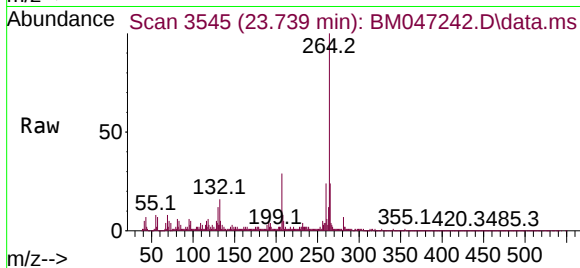
Tgt Ion:264 Resp: 969294

Ion Ratio Lower Upper

264 100

260 24.1 18.5 27.7

265 23.8 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 12.199 ng

RT: 26.745 min Scan# 4056

Delta R.T. 0.018 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

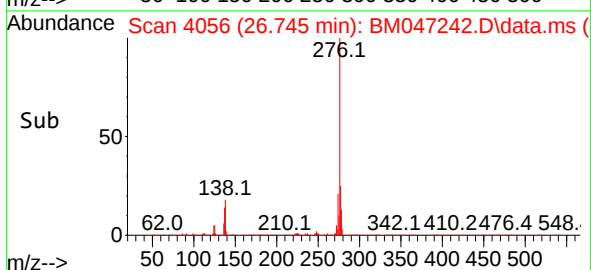
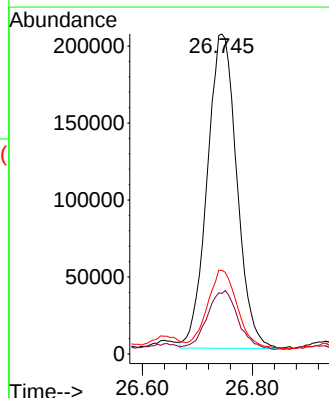
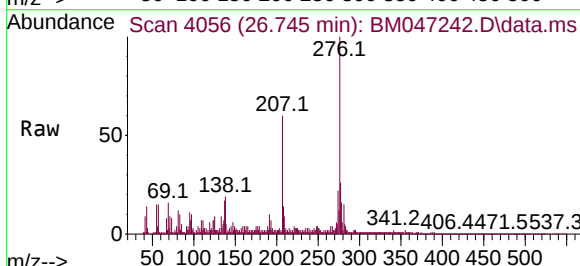
Tgt Ion:276 Resp: 764283

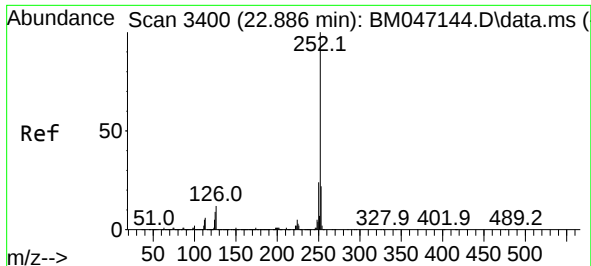
Ion Ratio Lower Upper

276 100

138 19.4 19.4 29.0

277 25.5 20.1 30.1

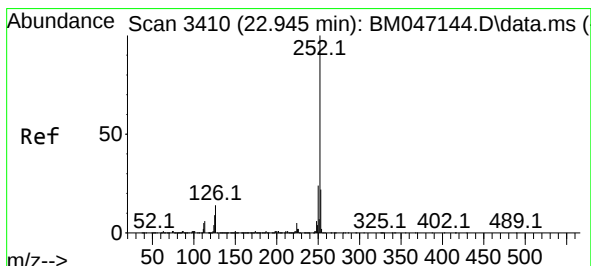
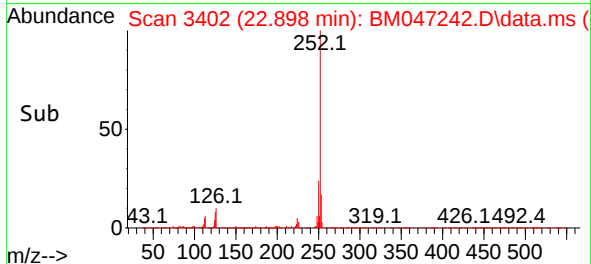
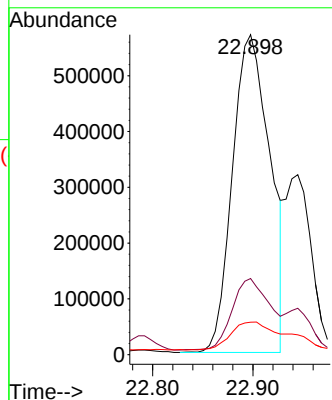
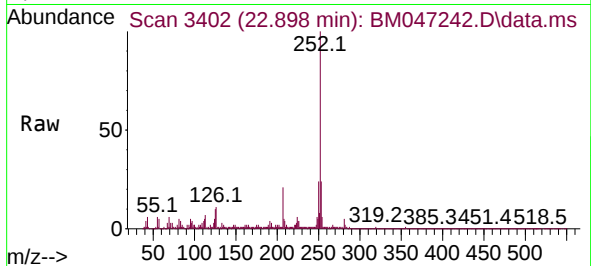




#88
Benzo(b)fluoranthene
Concen: 25.774 ng
RT: 22.898 min Scan# 3402
Delta R.T. 0.012 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

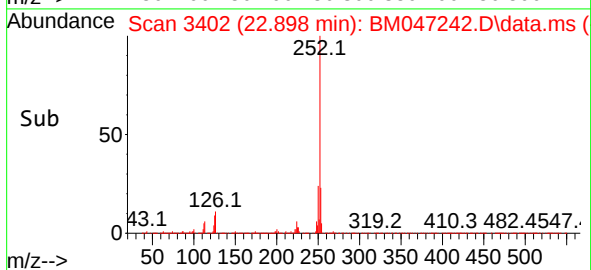
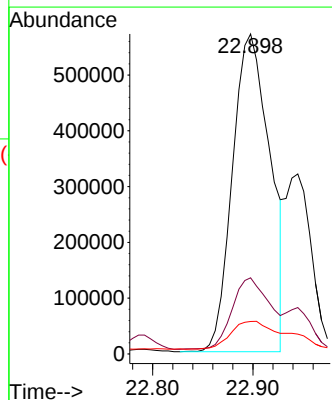
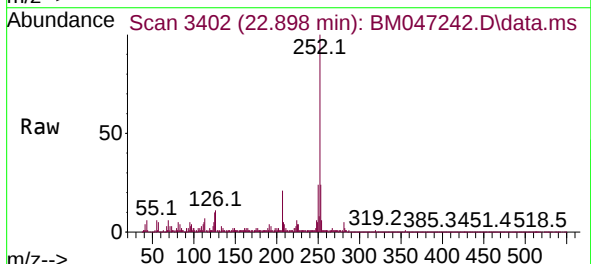
Instrument :
BNA_M
ClientSampleId :
OK-01-081424

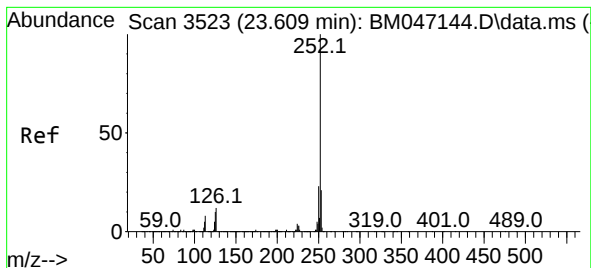
Tgt Ion:252 Resp: 1483616
Ion Ratio Lower Upper
252 100
253 23.8 17.8 26.6
125 10.1 7.4 11.0



#89
Benzo(k)fluoranthene
Concen: 27.287 ng
RT: 22.898 min Scan# 3402
Delta R.T. -0.047 min
Lab File: BM047242.D
Acq: 16 Aug 2024 19:52

Tgt Ion:252 Resp: 1483616
Ion Ratio Lower Upper
252 100
253 23.8 17.7 26.5
125 10.1 7.4 11.2





#90

Benzo(a)pyrene

Concen: 23.623 ng

RT: 23.609 min Scan# 3

Delta R.T. 0.000 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

Instrument :

BNA_M

ClientSampleId :

OK-01-081424

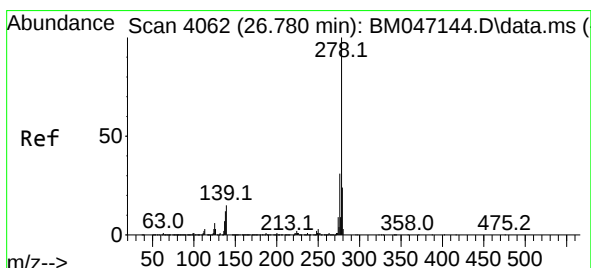
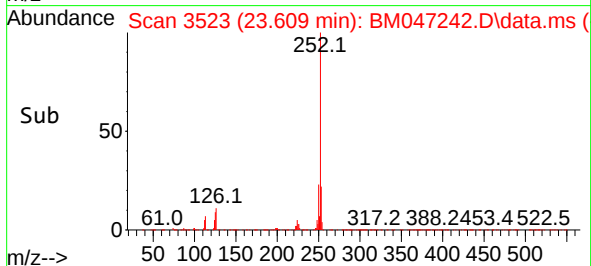
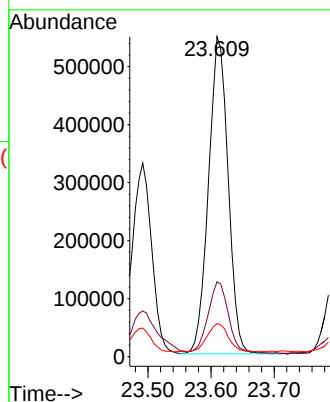
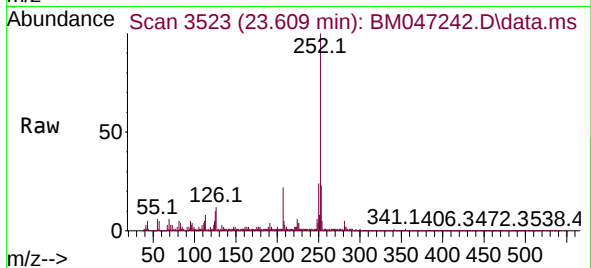
Tgt Ion:252 Resp: 1177960

Ion Ratio Lower Upper

252 100

253 23.4 17.1 25.7

125 10.4 8.2 12.2



#91

Dibenzo(a,h)anthracene

Concen: 4.077 ng

RT: 26.774 min Scan# 4061

Delta R.T. -0.006 min

Lab File: BM047242.D

Acq: 16 Aug 2024 19:52

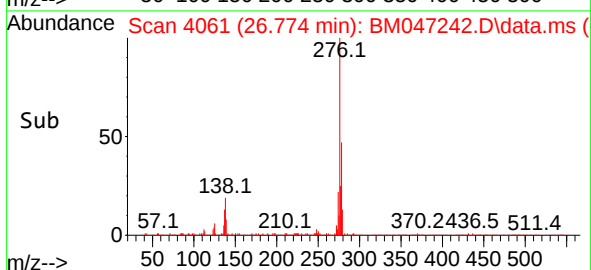
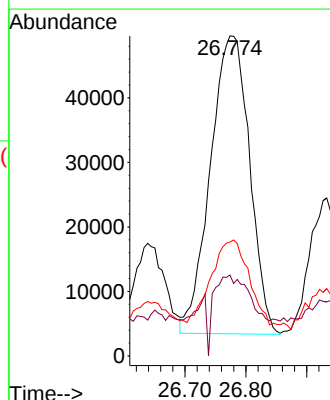
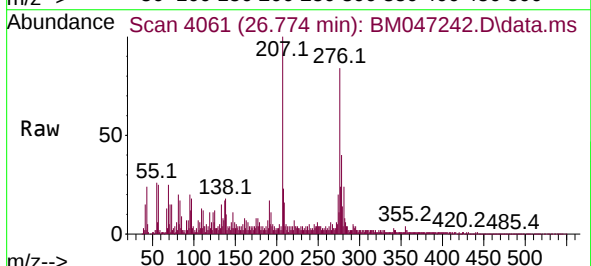
Tgt Ion:278 Resp: 206709

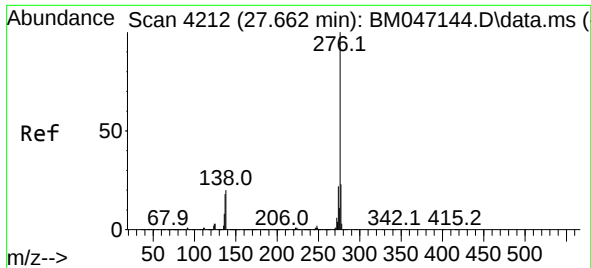
Ion Ratio Lower Upper

278 100

139 25.3 12.0 18.0#

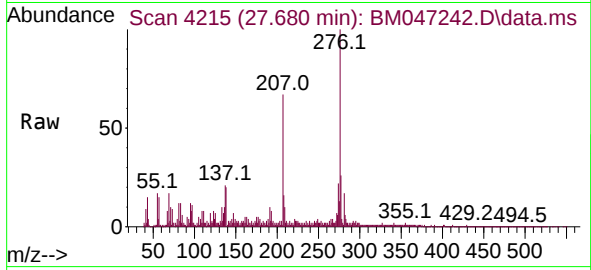
279 35.6 19.2 28.8#





#92
 Benzo(g,h,i)perylene
 Concen: 14.045 ng
 RT: 27.680 min Scan# 41
 Delta R.T. 0.018 min
 Lab File: BM047242.D
 Acq: 16 Aug 2024 19:52

Instrument :
 BNA_M
 ClientSampleId :
 OK-01-081424



Tgt Ion:	276	Resp:	739359
Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.8	28.2
138	19.9	16.2	24.4

