

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM110323\
 Data File : BM042581.D
 Acq On : 03 Nov 2023 21:35
 Operator : MA/JU
 Sample : 05141-03 10X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PE-3

Quant Time: Nov 03 22:41:49 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 03 15:52:20 2023
 Response via : Initial Calibration

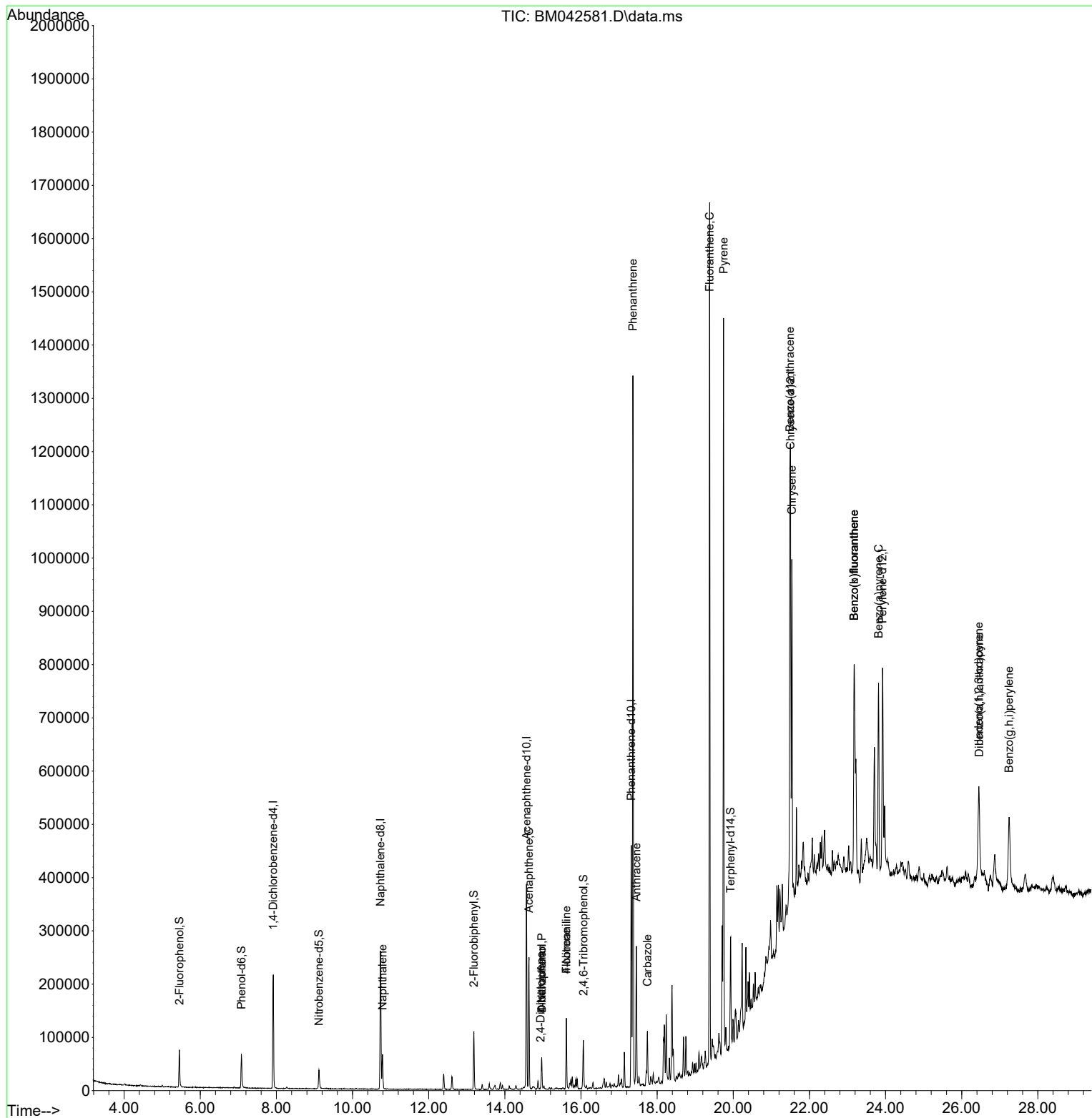
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.916	152	49067	20.000	ng	0.00
21) Naphthalene-d8	10.734	136	188774	20.000	ng	0.00
39) Acenaphthene-d10	14.569	164	117235	20.000	ng	0.00
64) Phenanthrene-d10	17.321	188	254063	20.000	ng	# 0.00
76) Chrysene-d12	21.503	240	259808	20.000	ng	# 0.00
86) Perylene-d12	23.921	264	287665	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	26424	8.691	ng	0.01
7) Phenol-d6	7.081	99	33380	8.005	ng	0.00
23) Nitrobenzene-d5	9.116	82	23753	5.866	ng	0.00
42) 2,4,6-Tribromophenol	16.063	330	13151	8.592	ng	0.00
45) 2-Fluorobiphenyl	13.186	172	50829	5.834	ng	0.00
79) Terphenyl-d14	19.933	244	83640	5.459	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	10.786	128	47480	4.868	ng	99
52) Acenaphthene	14.633	154	80173	12.133	ng	97
55) Dibenzofuran	14.969	168	35749	3.327	ng	99
56) 4-Nitrophenol	14.969	139	13555	14.496	ng	# 1
57) 2,4-Dinitrotoluene	14.939	165	54	3.989	ng	# 5
58) Fluorene	15.616	166	55426	6.376	ng	99
62) 4-Nitroaniline	15.616	138	589	6.026	ng	# 12
71) Phenanthrene	17.363	178	701774	52.856	ng	99
72) Anthracene	17.457	178	155150	11.798	ng	100
73) Carbazole	17.745	167	60883	5.691	ng	99
75) Fluoranthene	19.380	202	897650	57.556	ng	98
78) Pyrene	19.745	202	781830	43.824	ng	99
81) Benzo(a)anthracene	21.486	228	374749	22.670	ng	99
83) Chrysene	21.539	228	329496	19.623	ng	96
87) Indeno(1,2,3-cd)pyrene	26.450	276	170637	9.966	ng	# 91
88) Benzo(b)fluoranthene	23.174	252	372980	23.273	ng	99
89) Benzo(k)fluoranthene	23.174	252	372980	20.885	ng	98
90) Benzo(a)pyrene	23.815	252	269804	17.100	ng	96
91) Dibenzo(a,h)anthracene	26.462	278	40744	6.494	ng	95
92) Benzo(g,h,i)perylene	27.244	276	169658	11.243	ng	# 95

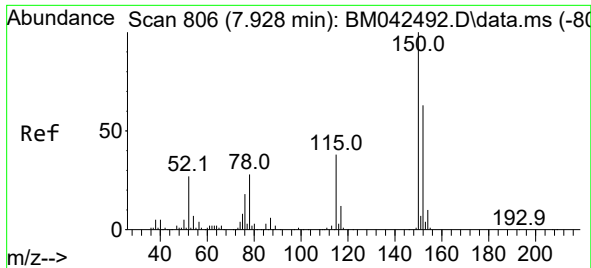
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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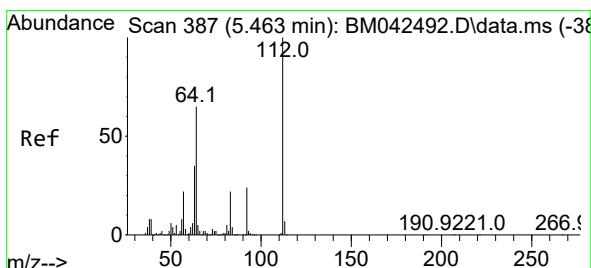
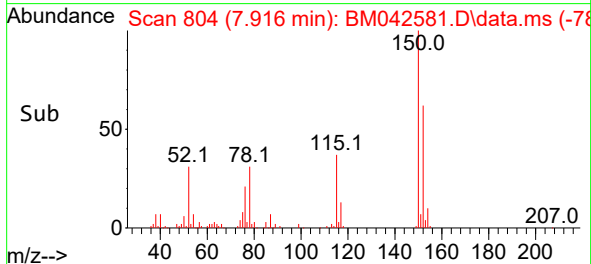
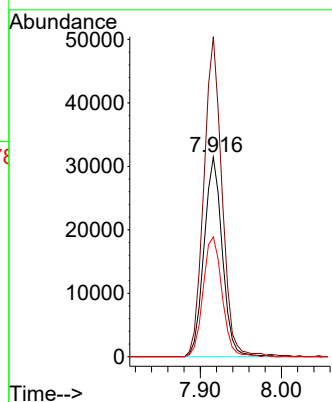
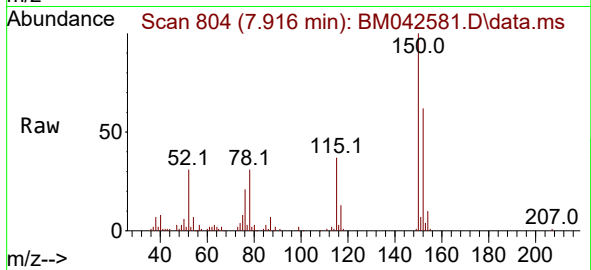




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.916 min Scan# 806
Delta R.T. 0.006 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

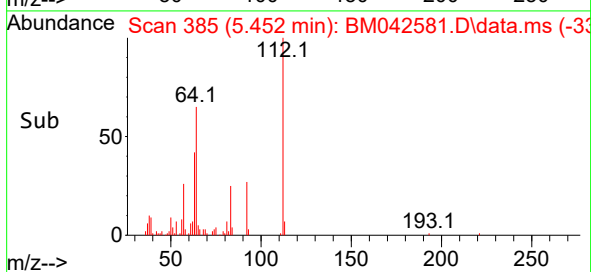
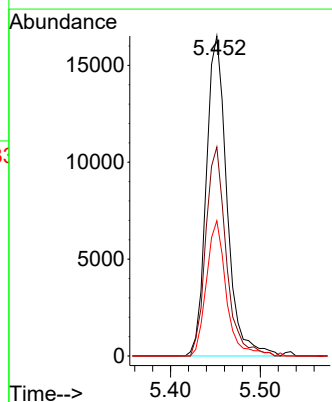
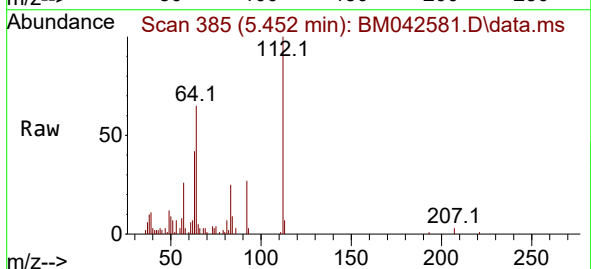
Instrument :
BNA_M
ClientSampleId :
PE-3

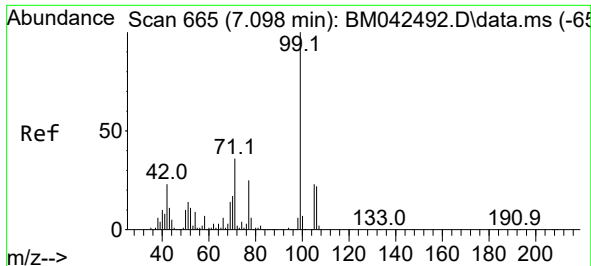
Tgt Ion:152 Resp: 49067
Ion Ratio Lower Upper
152 100
150 160.4 127.4 191.0
115 60.1 47.9 71.9



#5
2-Fluorophenol
Concen: 8.691 ng
RT: 5.452 min Scan# 385
Delta R.T. 0.012 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

Tgt Ion:112 Resp: 26424
Ion Ratio Lower Upper
112 100
64 65.3 52.1 78.1
63 42.2 28.3 42.5

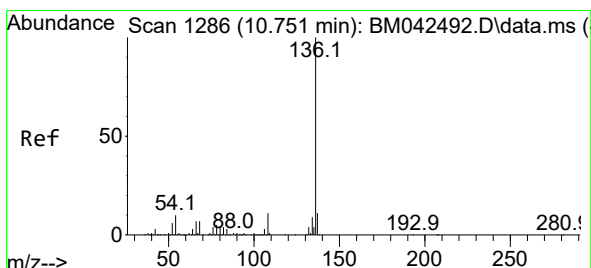
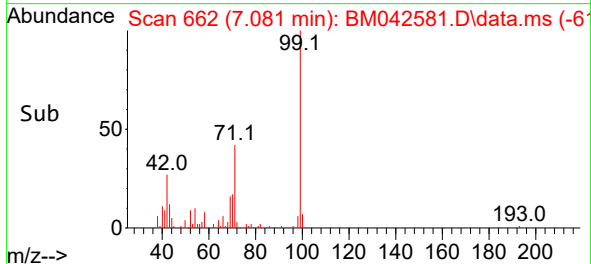
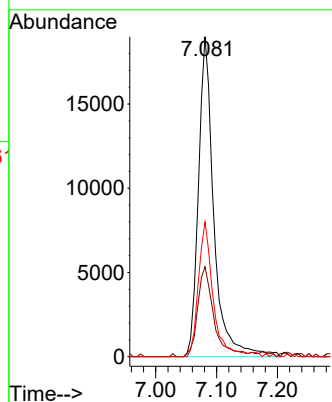
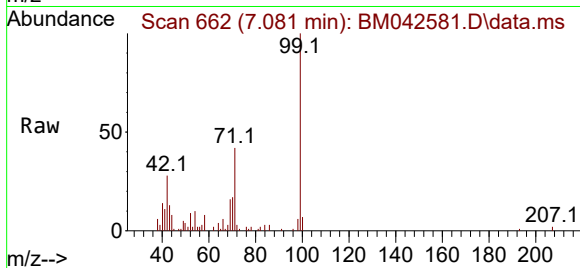




#7
Phenol-d6
Concen: 8.005 ng
RT: 7.081 min Scan# 60
Delta R.T. 0.006 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

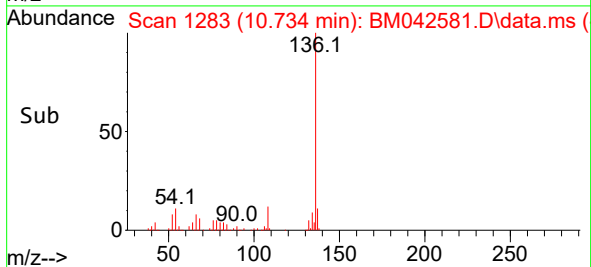
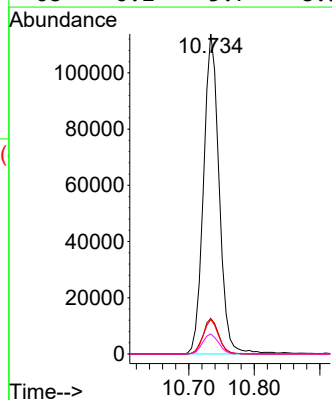
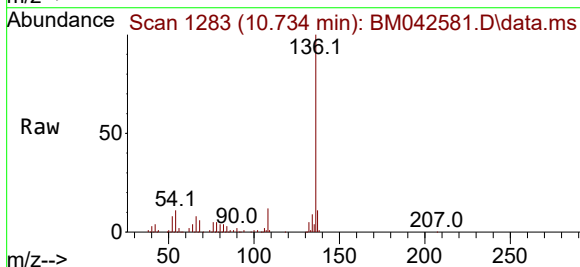
Instrument :
BNA_M
ClientSampleId :
PE-3

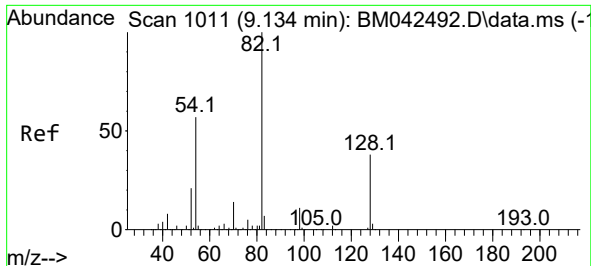
Tgt Ion: 99 Resp: 33380
Ion Ratio Lower Upper
99 100
42 28.1 18.7 28.1#
71 42.1 29.1 43.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.734 min Scan# 1283
Delta R.T. 0.006 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

Tgt Ion: 136 Resp: 188774
Ion Ratio Lower Upper
136 100
137 11.1 9.0 13.6
54 10.8 8.0 12.0
68 6.2 5.7 8.5





#23

Nitrobenzene-d5

Concen: 5.866 ng

RT: 9.116 min Scan# 1008

Delta R.T. 0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

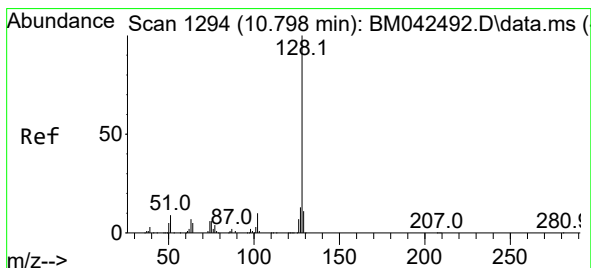
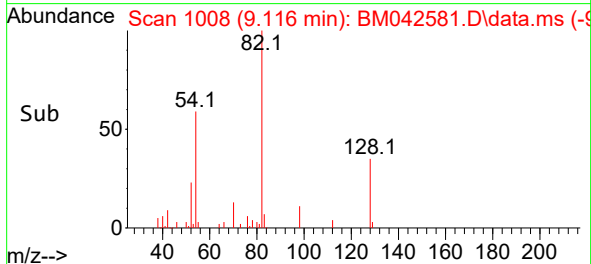
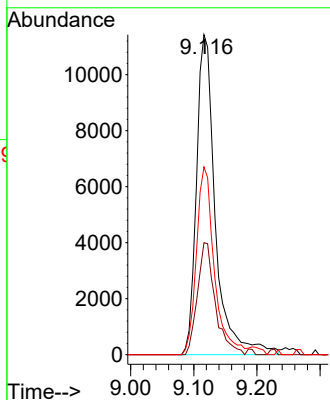
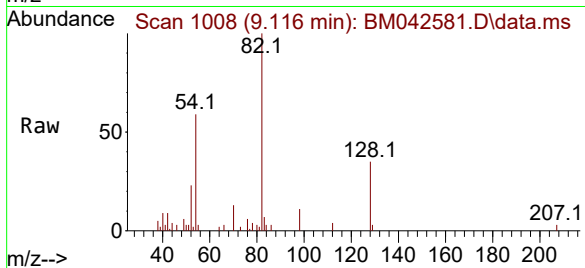
Tgt Ion: 82 Resp: 23753

Ion Ratio Lower Upper

82 100

128 35.0 30.7 46.1

54 58.7 45.3 67.9



#31

Naphthalene

Concen: 4.868 ng

RT: 10.786 min Scan# 1292

Delta R.T. 0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

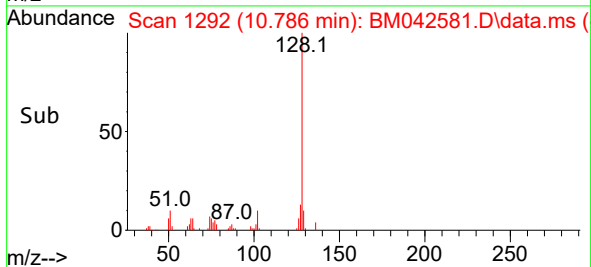
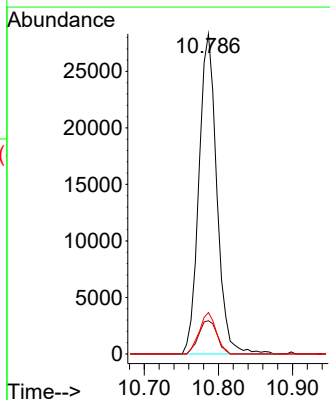
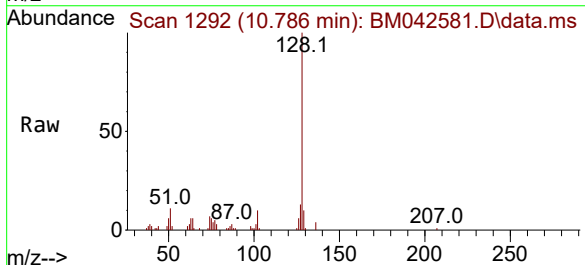
Tgt Ion: 128 Resp: 47480

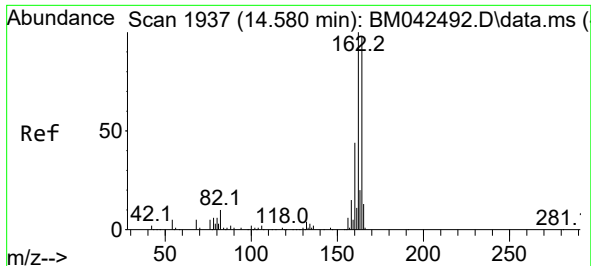
Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

127 13.0 10.6 15.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.569 min Scan# 11

Delta R.T. 0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

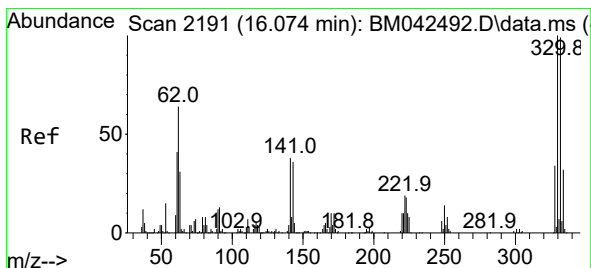
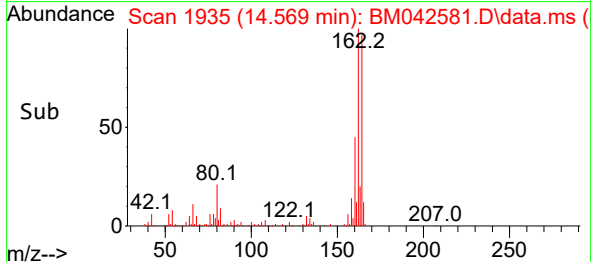
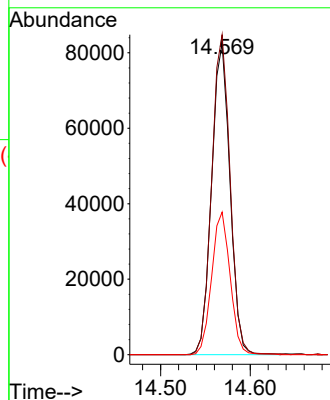
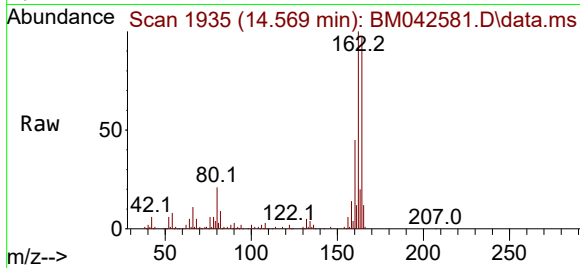
Tgt Ion:164 Resp: 117235

Ion Ratio Lower Upper

164 100

162 102.8 81.6 122.4

160 45.8 36.2 54.4



#42

2,4,6-Tribromophenol

Concen: 8.592 ng

RT: 16.063 min Scan# 2189

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

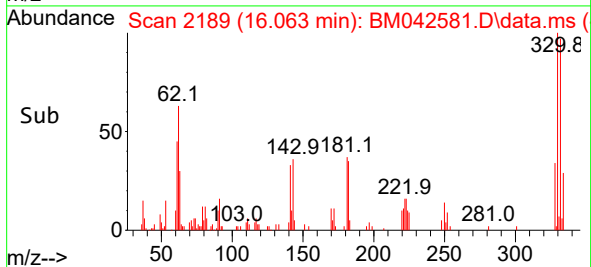
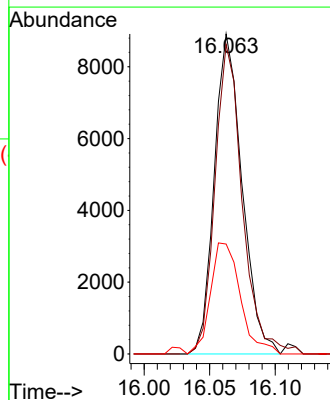
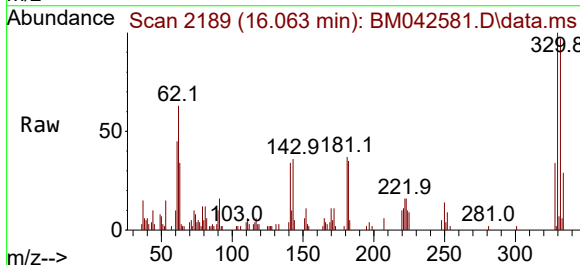
Tgt Ion:330 Resp: 13151

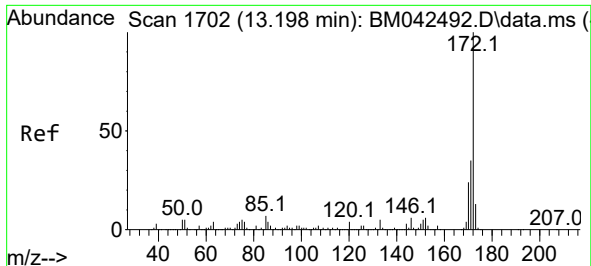
Ion Ratio Lower Upper

330 100

332 95.0 78.8 118.2

141 38.2 31.1 46.7

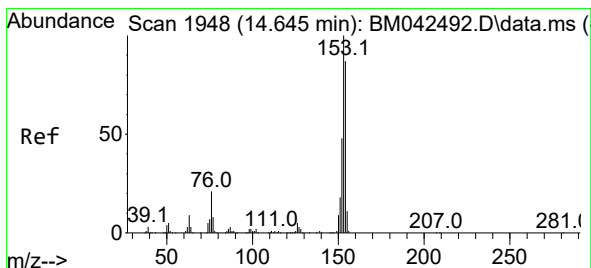
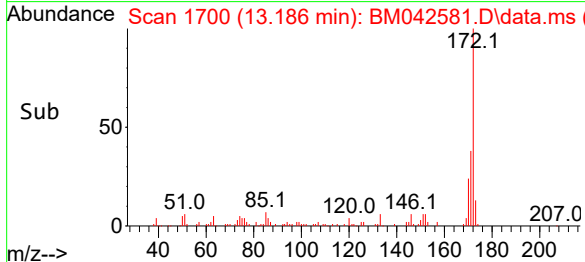
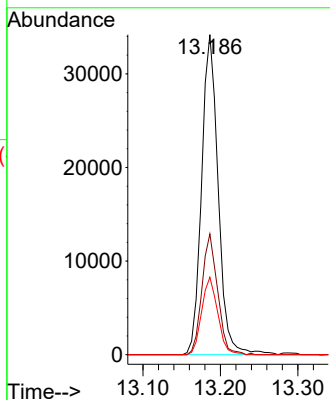
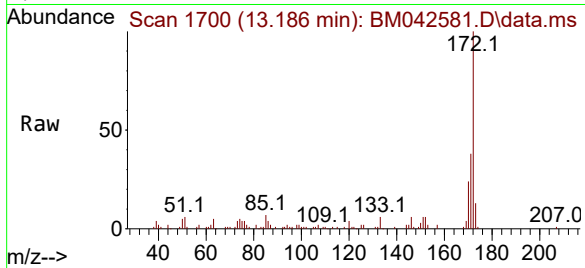




#45
2-Fluorobiphenyl
Concen: 5.834 ng
RT: 13.186 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

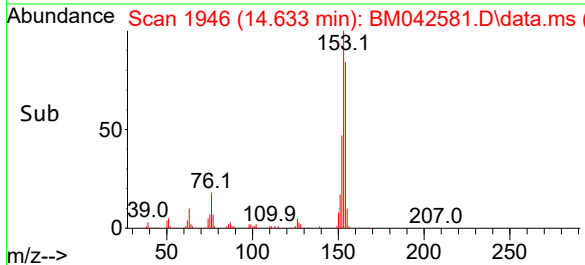
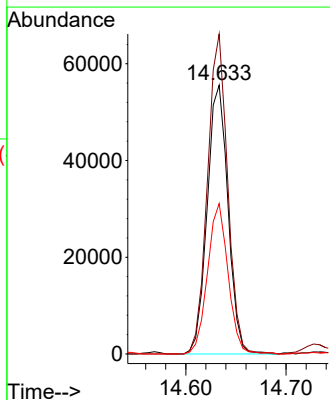
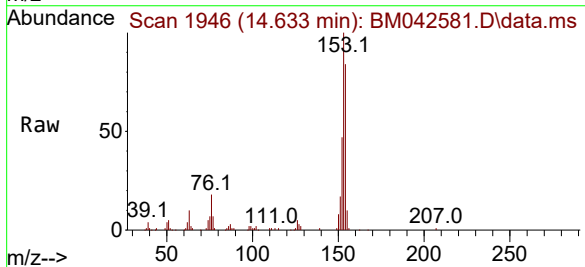
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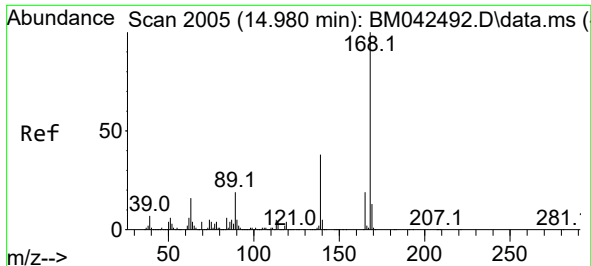
Tgt Ion:172 Resp: 50829
Ion Ratio Lower Upper
172 100
171 37.8 28.2 42.2
170 24.2 19.0 28.4



#52
Acenaphthene
Concen: 12.133 ng
RT: 14.633 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

Tgt Ion:154 Resp: 80173
Ion Ratio Lower Upper
154 100
153 119.0 92.0 138.0
152 56.0 44.0 66.0

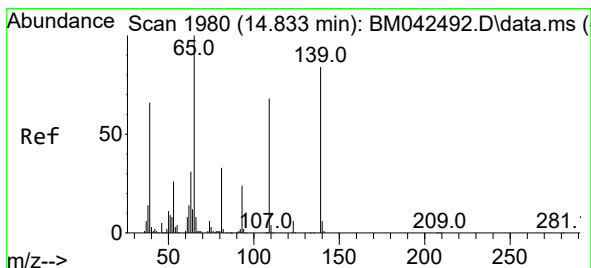
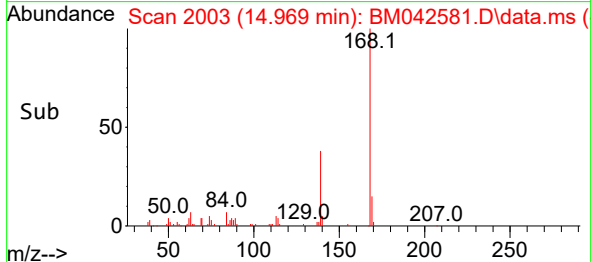
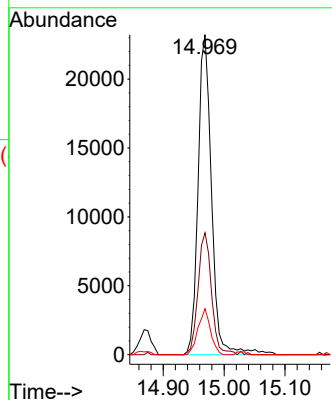
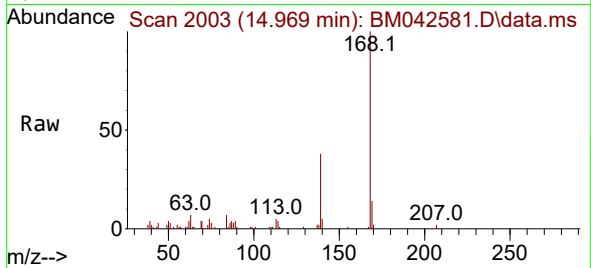




#55
Dibenzenofuran
Concen: 3.327 ng
RT: 14.969 min Scan# 2003
Delta R.T. 0.006 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

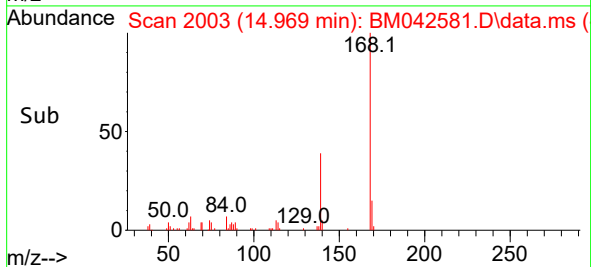
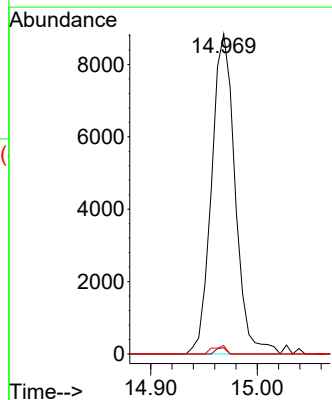
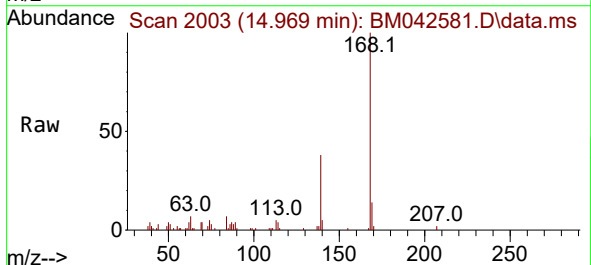
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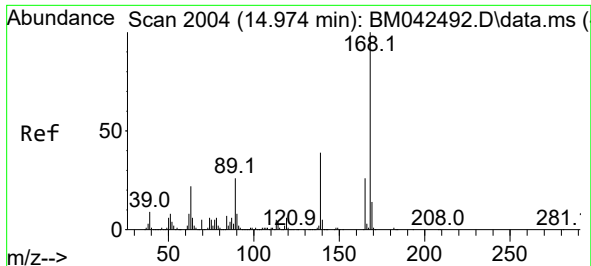
Tgt Ion:168 Resp: 35749
Ion Ratio Lower Upper
168 100
139 38.1 30.4 45.6
169 14.4 10.6 15.8



#56
4-Nitrophenol
Concen: 14.496 ng
RT: 14.969 min Scan# 2003
Delta R.T. 0.147 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

Tgt Ion:139 Resp: 13555
Ion Ratio Lower Upper
139 100
109 2.0 61.3 101.3#
65 2.6 100.2 140.2#





#57

2,4-Dinitrotoluene

Concen: 3.989 ng

RT: 14.939 min Scan# 1998

Delta R.T. -0.024 min

Lab File: BM042581.D

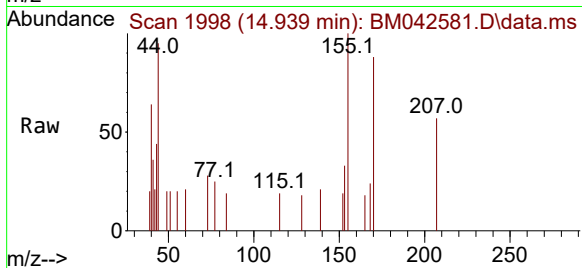
Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3



Tgt Ion:165 Resp: 54

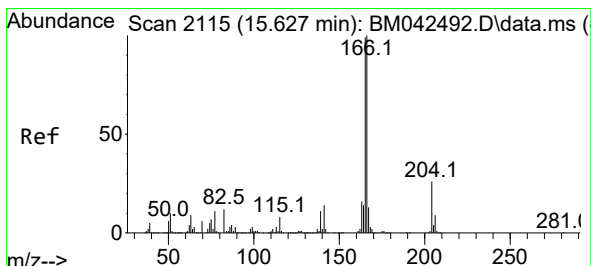
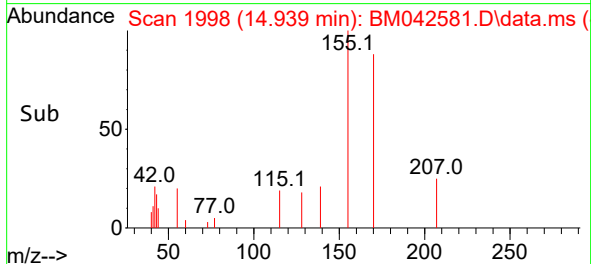
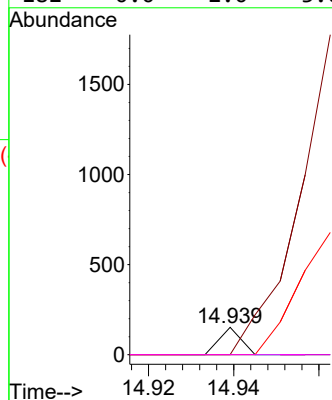
Ion Ratio Lower Upper

165 100

63 0.0 66.7 100.1#

89 0.0 80.2 120.4#

182 0.0 2.0 3.0#



#58

Fluorene

Concen: 6.376 ng

RT: 15.616 min Scan# 2113

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

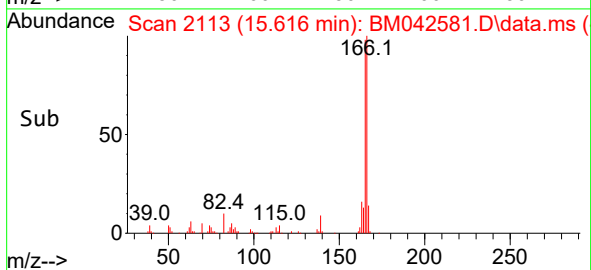
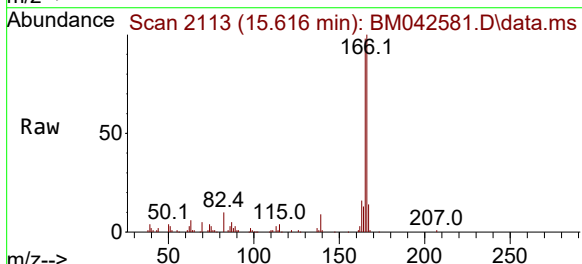
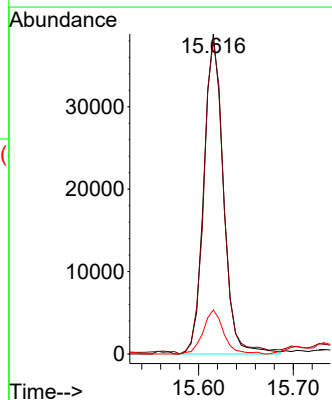
Tgt Ion:166 Resp: 55426

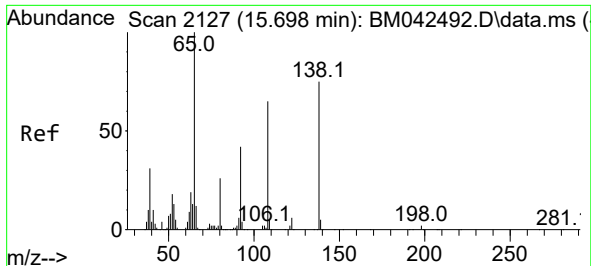
Ion Ratio Lower Upper

166 100

165 98.1 79.3 118.9

167 13.8 10.5 15.7

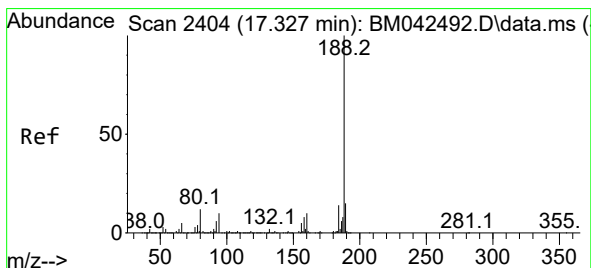
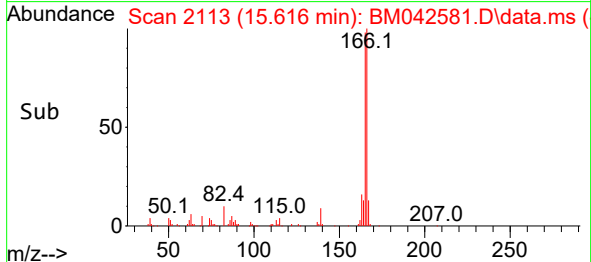
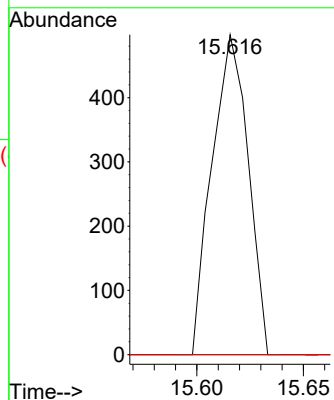
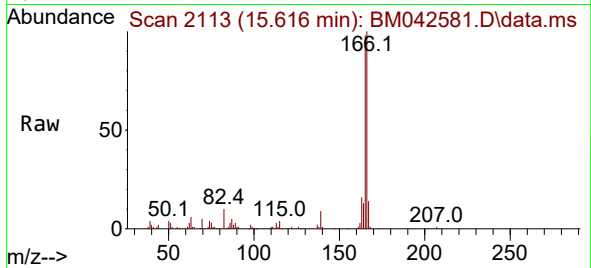




#62
4-Nitroaniline
Concen: 6.026 ng
RT: 15.616 min Scan# 2127
Delta R.T. -0.071 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

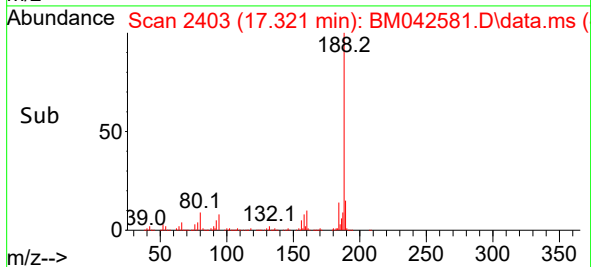
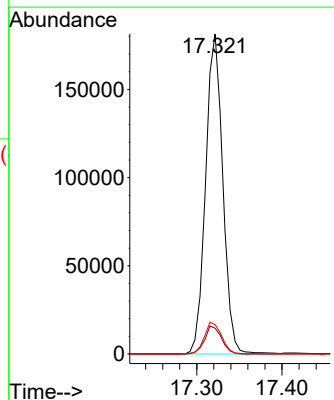
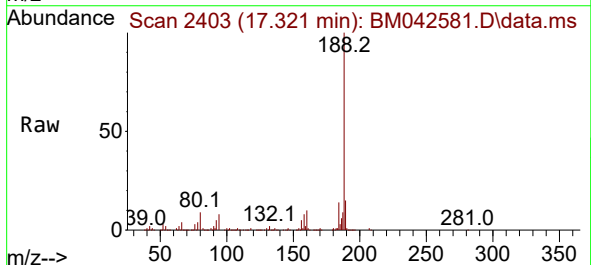
Instrument :
BNA_M
ClientSampleId :
PE-3

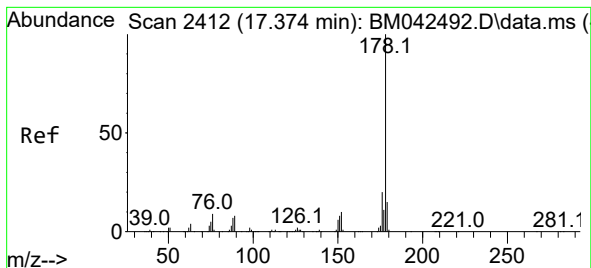
Tgt Ion:138 Resp: 589
Ion Ratio Lower Upper
138 100
92 0.0 37.0 77.0#
108 0.0 67.2 107.2#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.321 min Scan# 2403
Delta R.T. 0.006 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

Tgt Ion:188 Resp: 254063
Ion Ratio Lower Upper
188 100
94 8.0 8.2 12.4#
80 9.2 9.4 14.2#





#71

Phenanthrene

Concen: 52.856 ng

RT: 17.363 min Scan# 2412

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

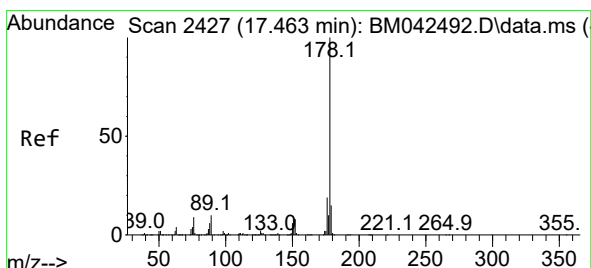
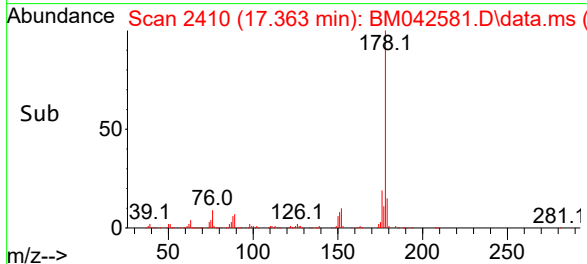
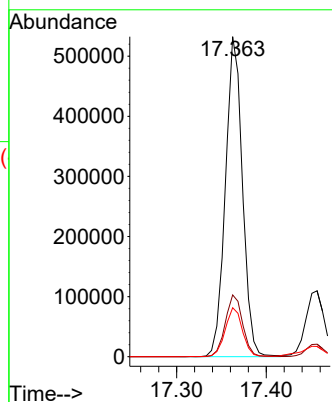
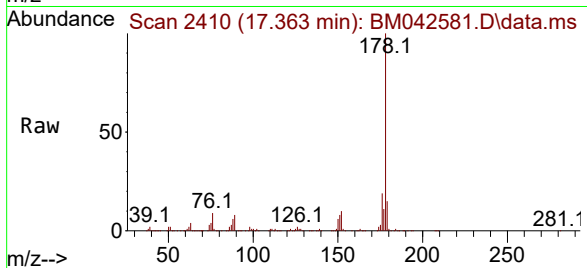
Tgt Ion:178 Resp: 701774

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

179 15.3 12.2 18.4



#72

Anthracene

Concen: 11.798 ng

RT: 17.457 min Scan# 2426

Delta R.T. 0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

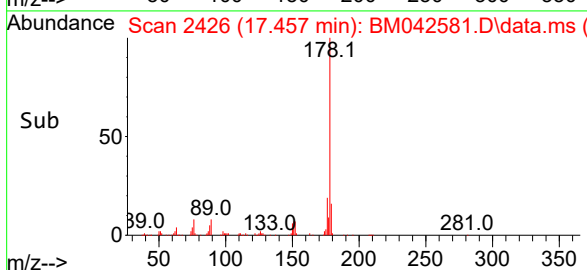
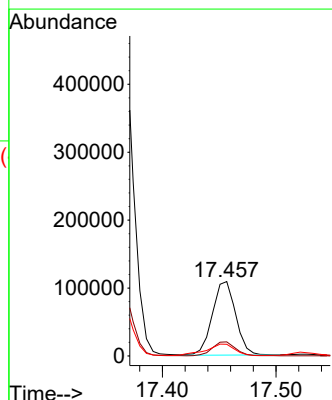
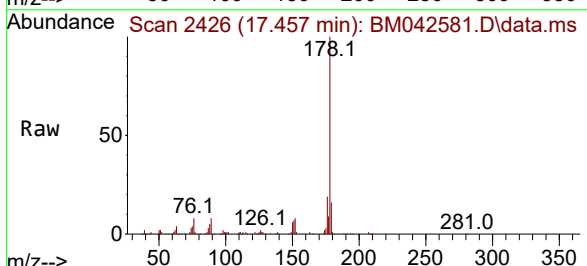
Tgt Ion:178 Resp: 155150

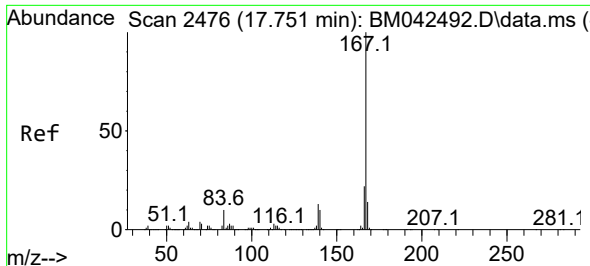
Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 15.6 12.3 18.5

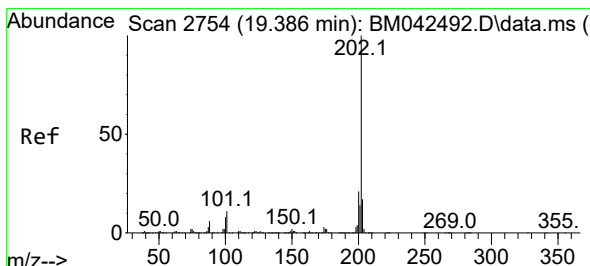
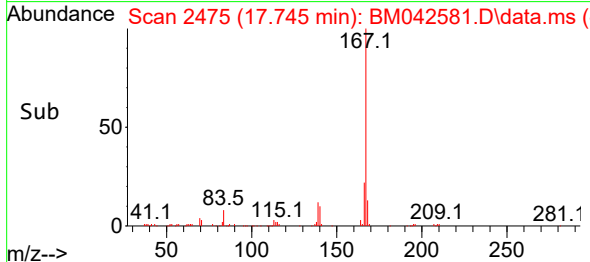
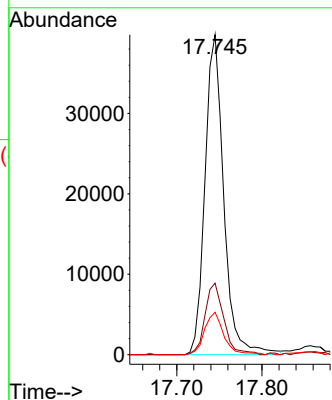
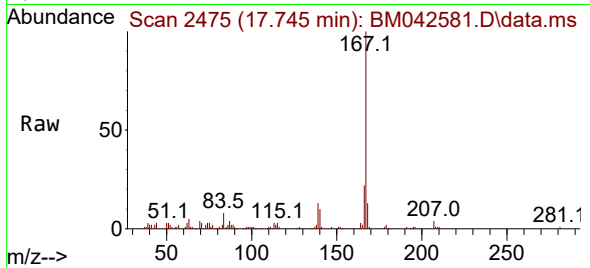




#73
 Carbazole
 Concen: 5.691 ng
 RT: 17.745 min Scan# 2476
 Delta R.T. 0.006 min
 Lab File: BM042581.D
 Acq: 03 Nov 2023 21:35

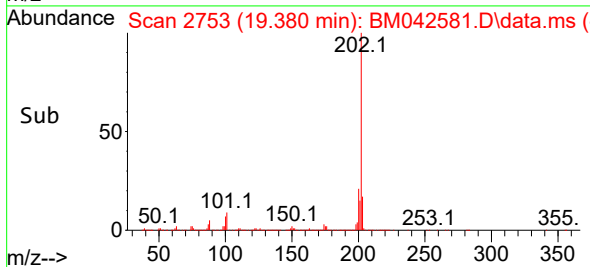
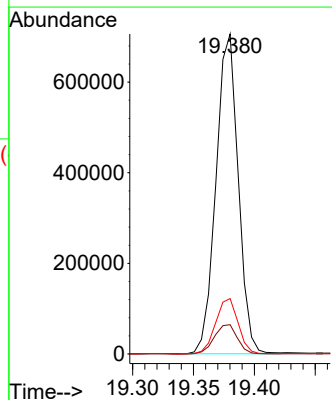
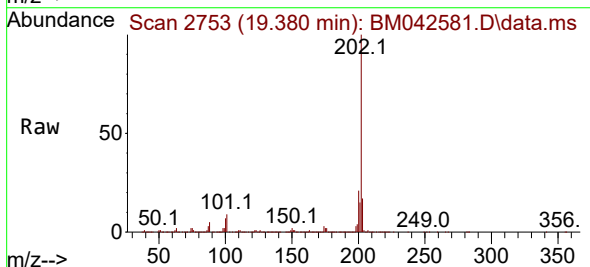
Instrument :
 BNA_M
 ClientSampleId :
 PE-3

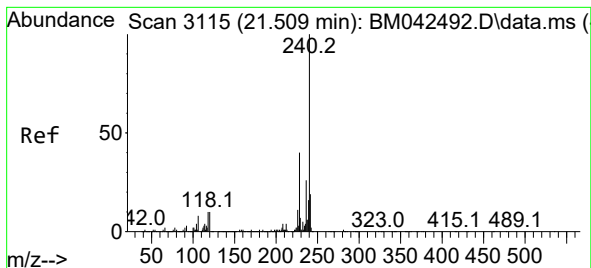
Tgt Ion:167 Resp: 60883
 Ion Ratio Lower Upper
 167 100
 166 22.4 17.4 26.2
 139 13.2 10.5 15.7



#75
 Fluoranthene
 Concen: 57.556 ng
 RT: 19.380 min Scan# 2753
 Delta R.T. 0.006 min
 Lab File: BM042581.D
 Acq: 03 Nov 2023 21:35

Tgt Ion:202 Resp: 897650
 Ion Ratio Lower Upper
 202 100
 101 9.2 0.0 30.5
 203 17.3 0.0 37.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.503 min Scan# 3114

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

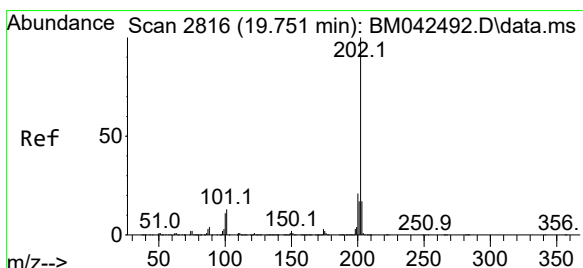
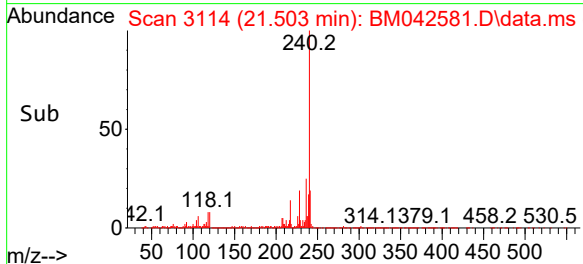
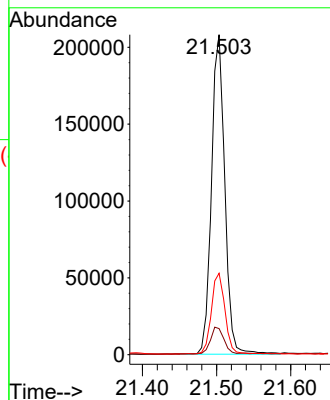
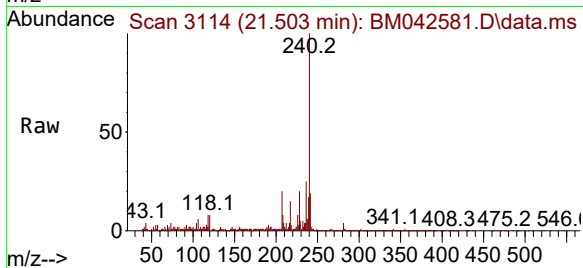
Tgt Ion:240 Resp: 259808

Ion Ratio Lower Upper

240 100

120 8.2 8.3 12.5#

236 25.5 20.8 31.2



#78

Pyrene

Concen: 43.824 ng

RT: 19.745 min Scan# 2815

Delta R.T. 0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

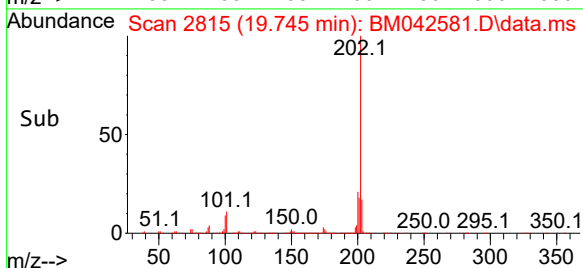
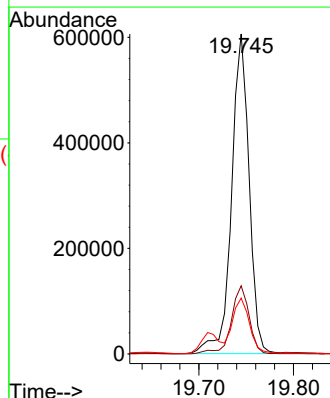
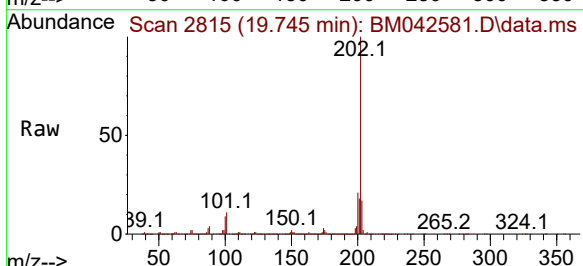
Tgt Ion:202 Resp: 781830

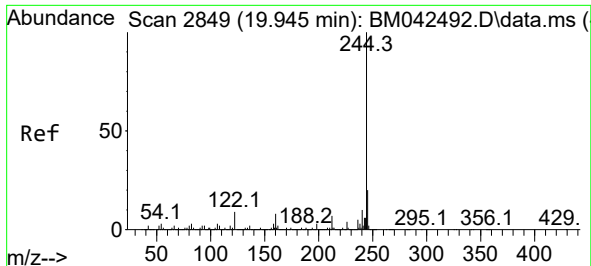
Ion Ratio Lower Upper

202 100

200 21.3 16.9 25.3

203 17.5 13.7 20.5

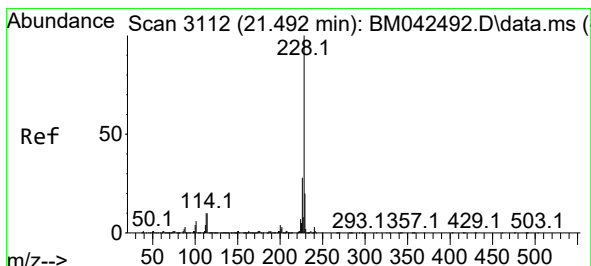
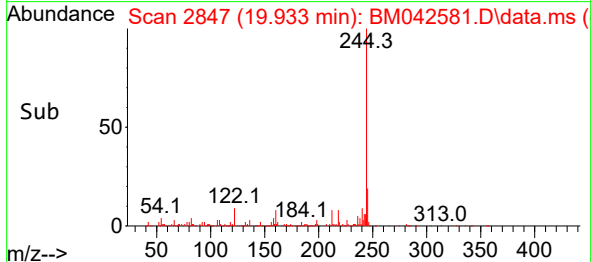
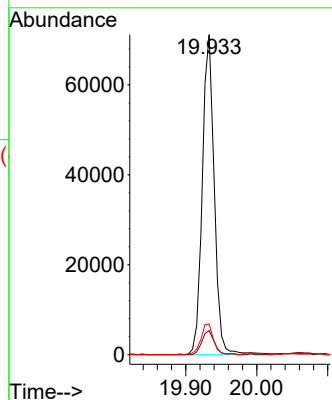
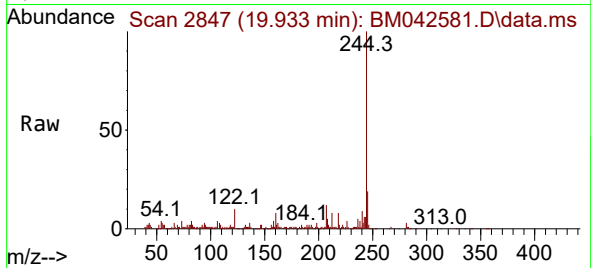




#79
 Terphenyl-d14
 Concen: 5.459 ng
 RT: 19.933 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BM042581.D
 Acq: 03 Nov 2023 21:35

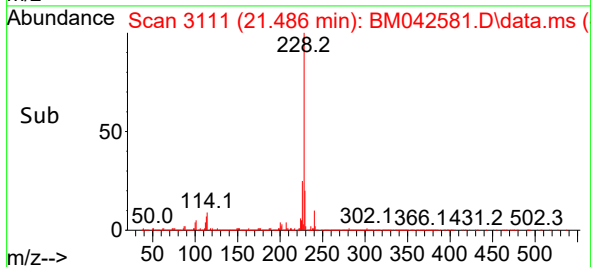
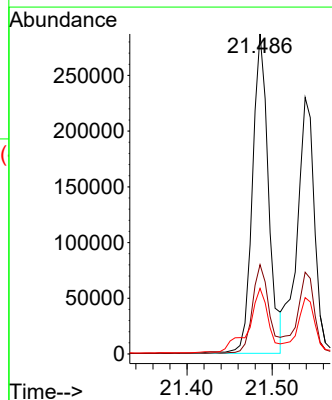
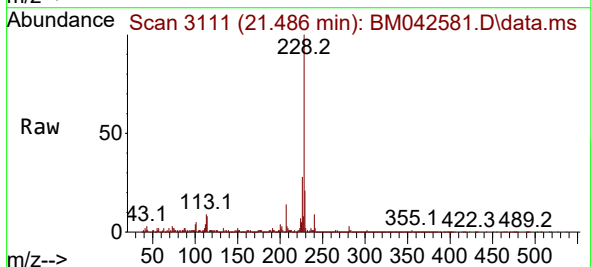
Instrument :
 BNA_M
 ClientSampleId :
 PE-3

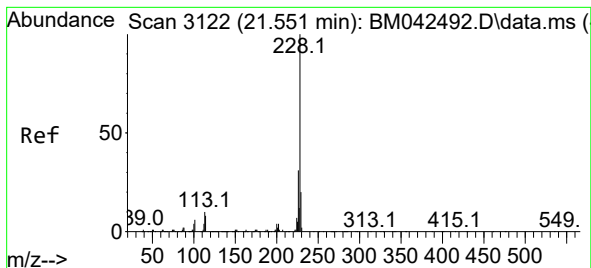
Tgt Ion:244 Resp: 83640
 Ion Ratio Lower Upper
 244 100
 212 7.6 5.4 8.2
 122 9.6 7.2 10.8



#81
 Benzo(a)anthracene
 Concen: 22.670 ng
 RT: 21.486 min Scan# 3111
 Delta R.T. -0.000 min
 Lab File: BM042581.D
 Acq: 03 Nov 2023 21:35

Tgt Ion:228 Resp: 374749
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.3 33.5
 229 20.5 15.8 23.8





#83

Chrysene

Concen: 19.623 ng

RT: 21.539 min Scan# 31

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

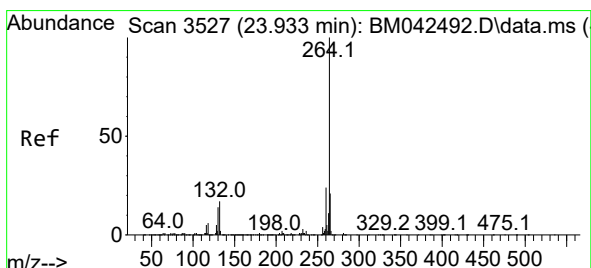
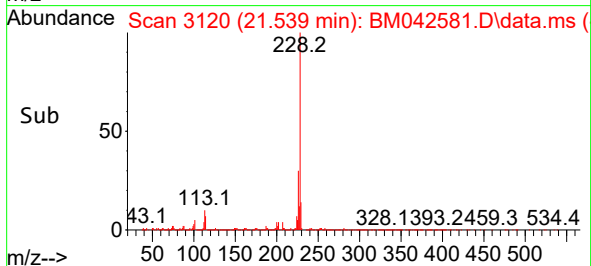
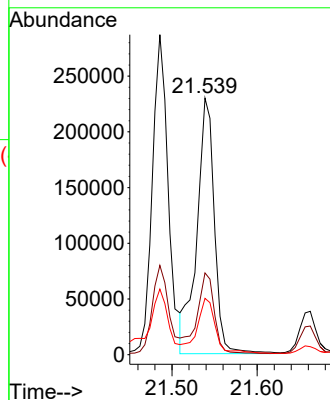
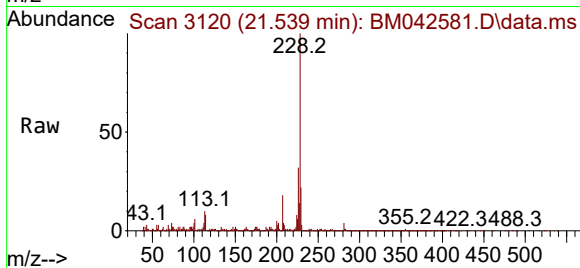
Tgt Ion:228 Resp: 329496

Ion Ratio Lower Upper

228 100

226 31.9 24.4 36.6

229 21.9 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.921 min Scan# 3525

Delta R.T. 0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

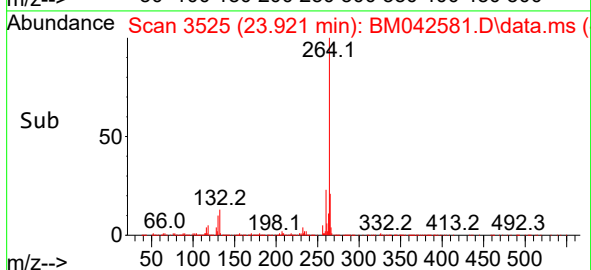
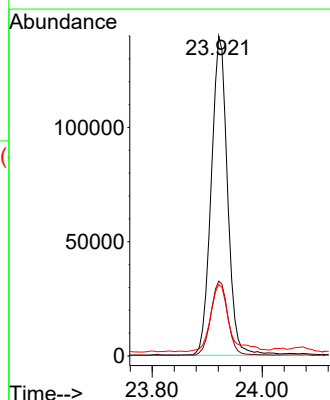
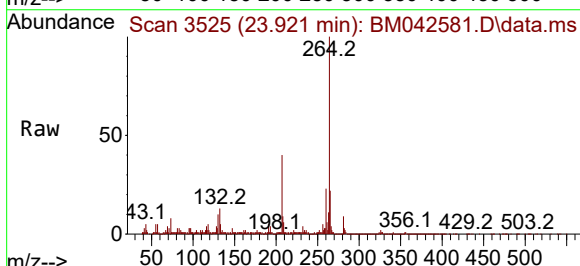
Tgt Ion:264 Resp: 287665

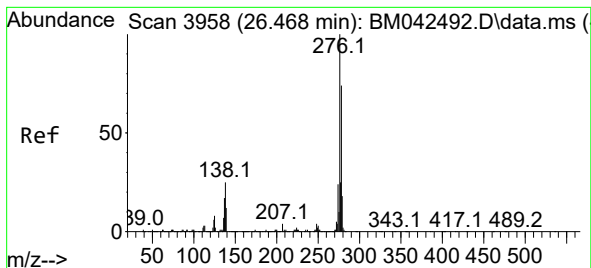
Ion Ratio Lower Upper

264 100

260 23.4 19.0 28.4

265 22.3 18.7 28.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.966 ng

RT: 26.450 min Scan# 3398

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

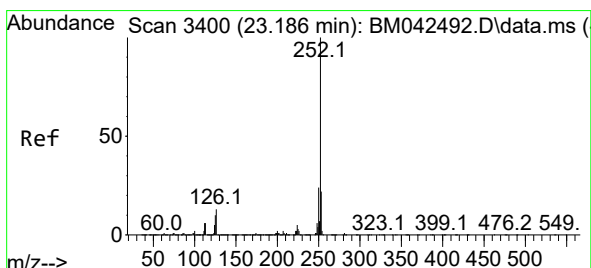
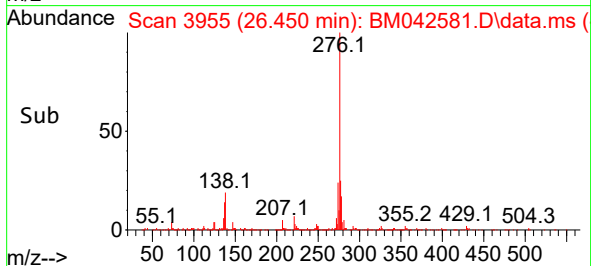
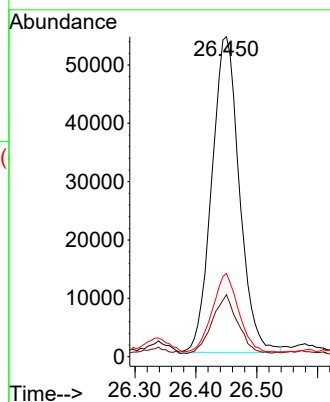
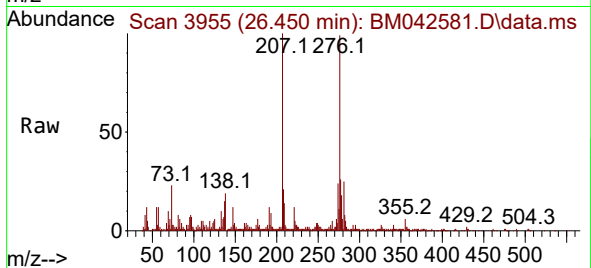
Tgt Ion:276 Resp: 170637

Ion Ratio Lower Upper

276 100

138 17.4 20.6 31.0#

277 23.6 19.5 29.3



#88

Benzo(b)fluoranthene

Concen: 23.273 ng

RT: 23.174 min Scan# 3398

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

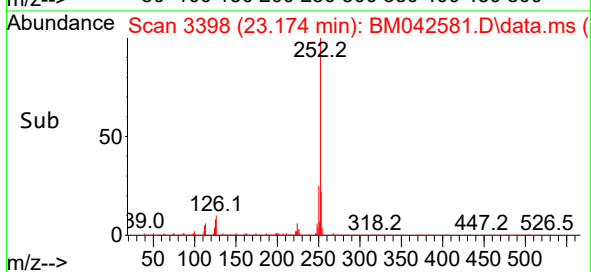
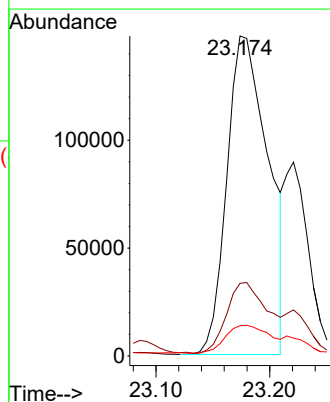
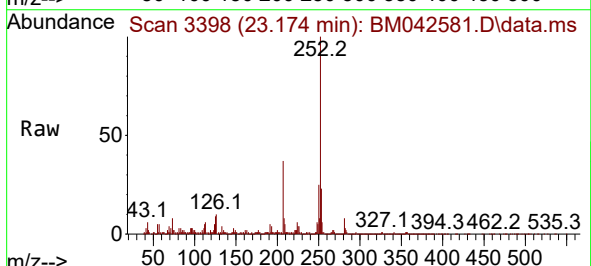
Tgt Ion:252 Resp: 372980

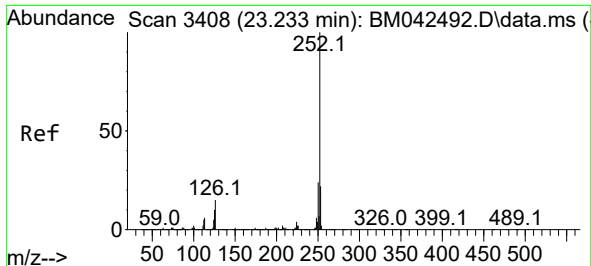
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 9.5 7.8 11.6

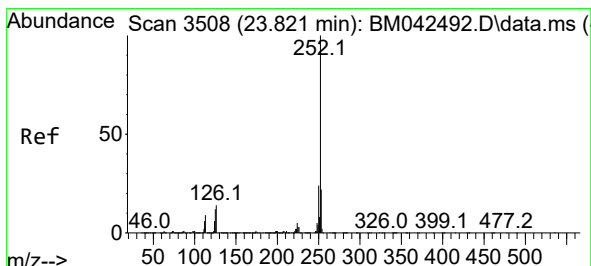
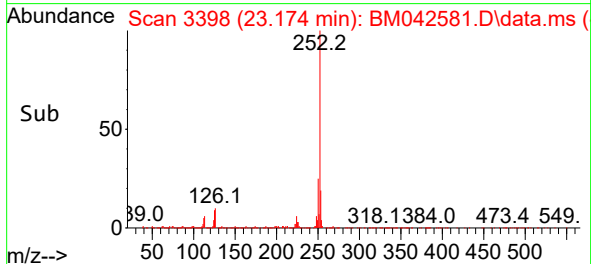
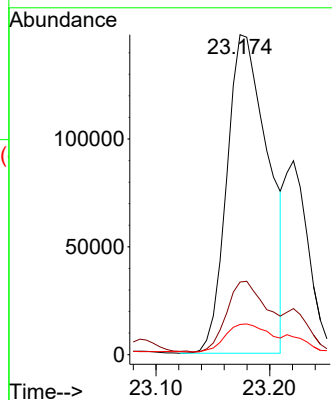
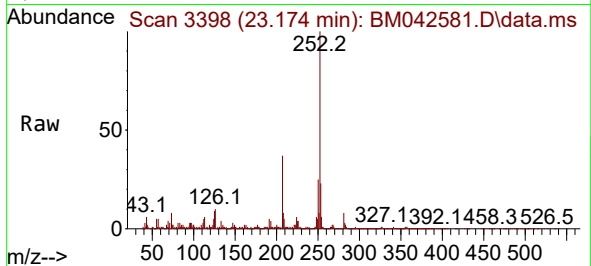




#89
Benzo(k)fluoranthene
Concen: 20.885 ng
RT: 23.174 min Scan# 31
Delta R.T. -0.047 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

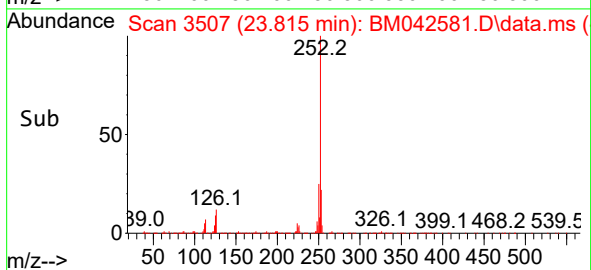
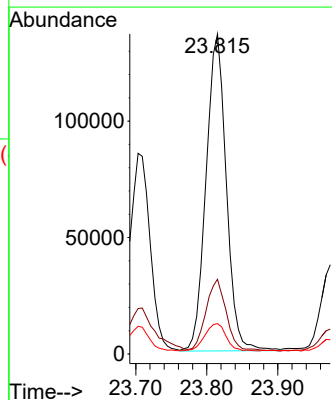
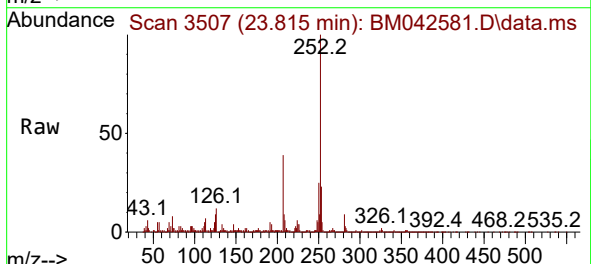
Instrument :
BNA_M
ClientSampleId :
PE-3

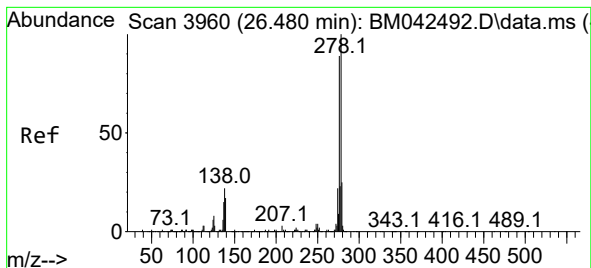
Tgt Ion:252 Resp: 372980
Ion Ratio Lower Upper
252 100
253 22.7 17.6 26.4
125 9.5 8.2 12.4



#90
Benzo(a)pyrene
Concen: 17.100 ng
RT: 23.815 min Scan# 3507
Delta R.T. 0.006 min
Lab File: BM042581.D
Acq: 03 Nov 2023 21:35

Tgt Ion:252 Resp: 269804
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 9.5 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 6.494 ng

RT: 26.462 min Scan# 3957

Delta R.T. -0.006 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Instrument :

BNA_M

ClientSampleId :

PE-3

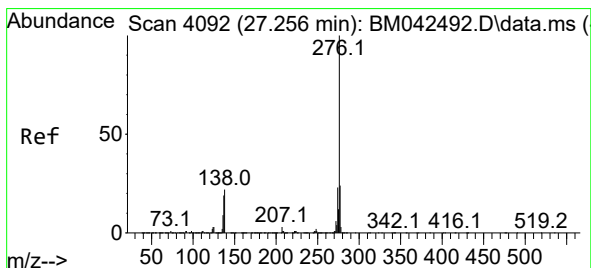
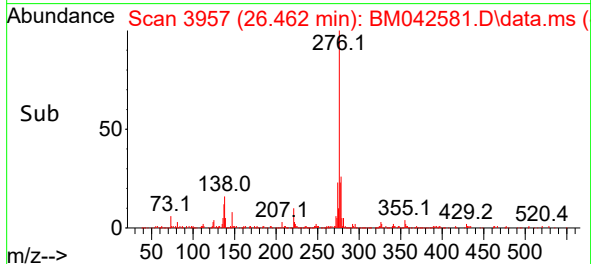
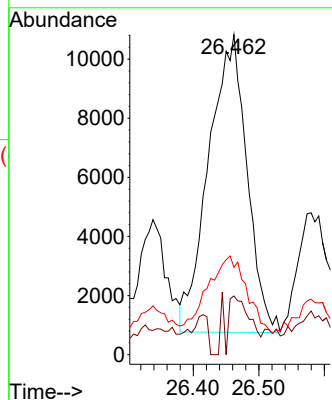
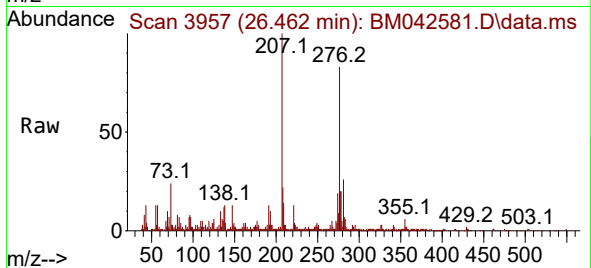
Tgt Ion:278 Resp: 40744

Ion Ratio Lower Upper

278 100

139 18.3 13.4 20.2

279 27.3 19.7 29.5



#92

Benzo(g,h,i)perylene

Concen: 11.243 ng

RT: 27.244 min Scan# 4090

Delta R.T. -0.000 min

Lab File: BM042581.D

Acq: 03 Nov 2023 21:35

Tgt Ion:276 Resp: 169658

Ion Ratio Lower Upper

276 100

277 24.2 19.2 28.8

138 17.0 17.3 25.9#

