

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041323\
 Data File : BM039425.D
 Acq On : 13 Apr 2023 23:59
 Operator : CG/JU
 Sample : 02307-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-02-041223

Quant Time: Apr 14 05:19:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 16:05:42 2023
 Response via : Initial Calibration

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

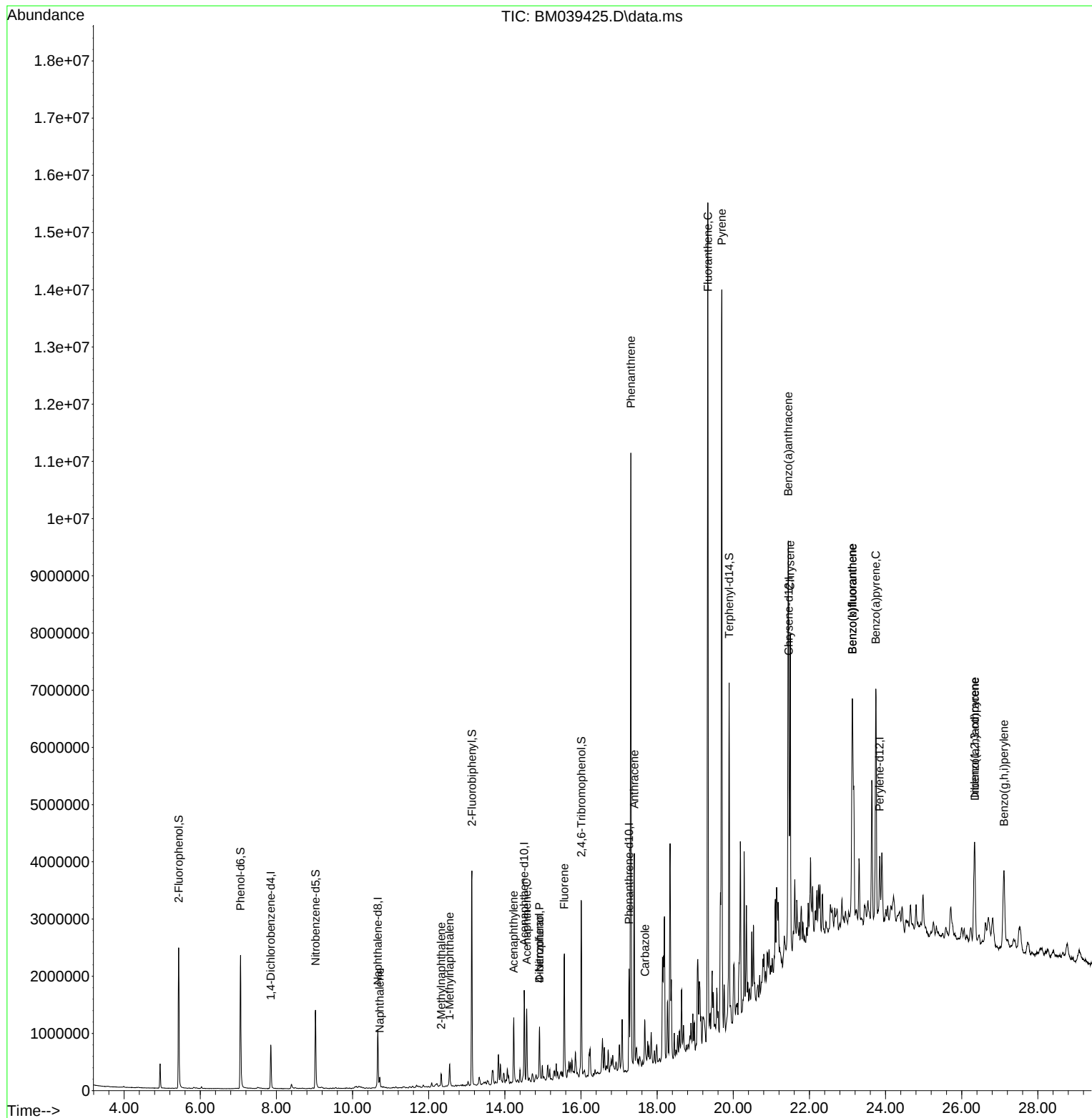
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.851	152	214881	20.000	ng	-0.01
21) Naphthalene-d8	10.663	136	883844	20.000	ng	-0.01
39) Acenaphthene-d10	14.510	164	532068	20.000	ng	0.00
64) Phenanthrene-d10	17.263	188	1087918	20.000	ng	0.00
76) Chrysene-d12	21.456	240	866574	20.000	ng	0.00
86) Perylene-d12	23.845	264	956722	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	1150629	80.674	ng	0.01
7) Phenol-d6	7.057	99	1459401	79.111	ng	0.02
23) Nitrobenzene-d5	9.028	82	882210	48.513	ng	0.00
42) 2,4,6-Tribromophenol	16.010	330	501674	74.277	ng	0.00
45) 2-Fluorobiphenyl	13.133	172	1972964	50.242	ng	0.00
79) Terphenyl-d14	19.892	244	2787627	59.433	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.716	128	141444	2.970	ng	99
37) 2-Methylnaphthalene	12.328	142	114229	3.445	ng	95
38) 1-Methylnaphthalene	12.551	142	187436	6.038	ng	98
49) Acenaphthylene	14.233	152	833429	15.940	ng	99
52) Acenaphthene	14.575	154	450223	14.582	ng	99
55) Dibenzofuran	14.910	168	480635	9.669	ng	# 96
56) 4-Nitrophenol	14.910	139	184143	23.426	ng	# 11
58) Fluorene	15.563	166	985396	25.035	ng	99
71) Phenanthrene	17.310	178	6386655	107.188	ng	100
72) Anthracene	17.398	178	2291686	37.720	ng	99
73) Carbazole	17.680	167	476302	8.390	ng	99
75) Fluoranthene	19.333	202	8753709	128.881	ng	99
78) Pyrene	19.698	202	8271549	134.081	ng	99
81) Benzo(a)anthracene	21.445	228	3597429	58.862	ng	96
83) Chrysene	21.498	228	3117076	52.832	ng	97
87) Indeno(1,2,3-cd)pyrene	26.338	276	1871843	26.554	ng	95
88) Benzo(b)fluoranthene	23.127	252	3983807	68.053	ng	97
89) Benzo(k)fluoranthene	23.127	252	3983807	66.810	ng	97
90) Benzo(a)pyrene	23.745	252	3109314	54.068	ng	98
91) Dibenzo(a,h)anthracene	26.344	278	519267	8.773	ng	# 85
92) Benzo(g,h,i)perylene	27.109	276	1825283	31.357	ng	99

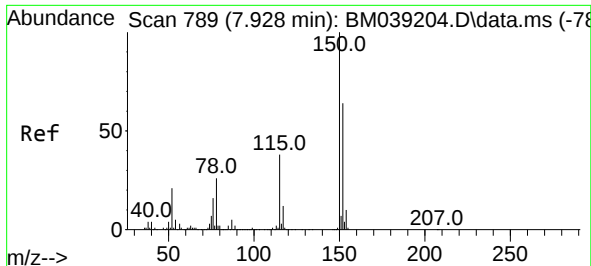
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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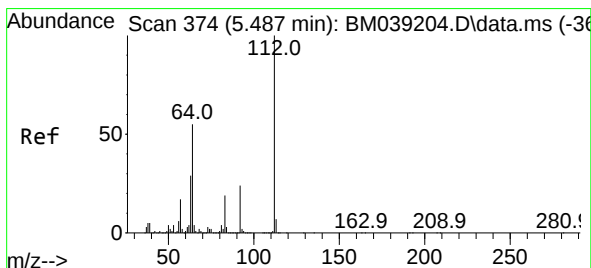
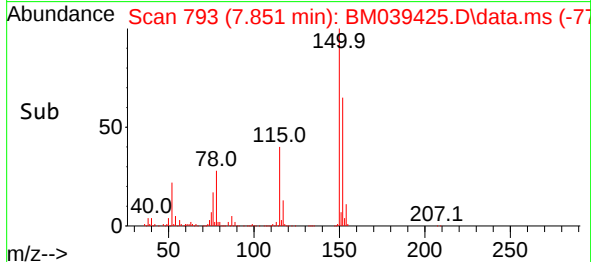
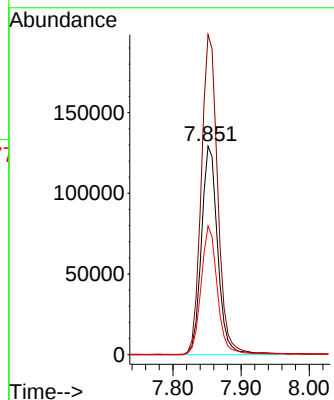
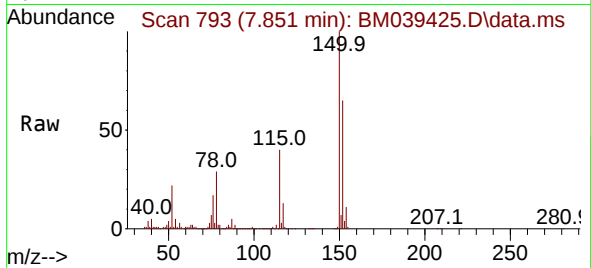




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.851 min Scan# 793
Delta R.T. -0.012 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

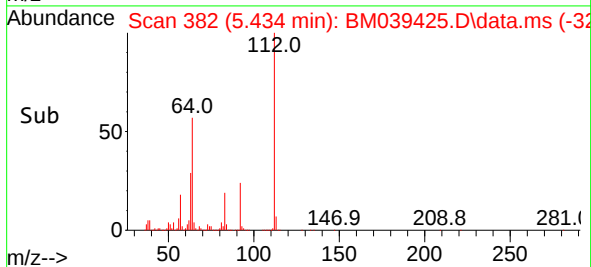
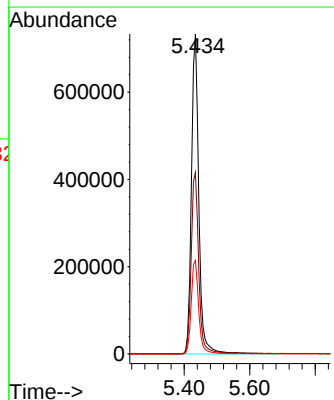
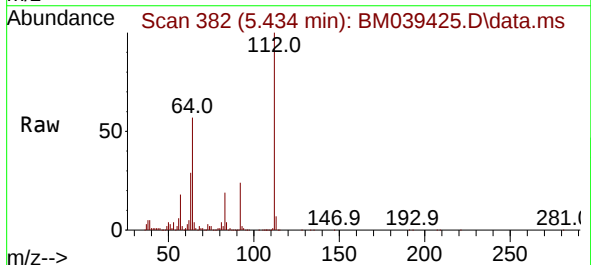
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BNA_M
ClientSampleId :
PL-02-041223

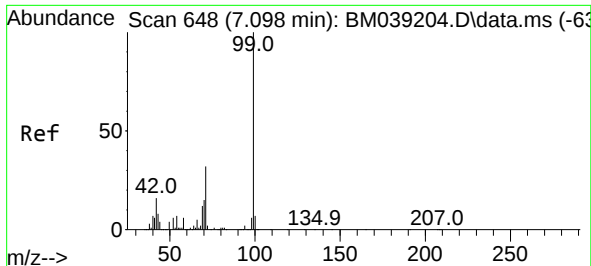
Tgt Ion:152 Resp: 214881
Ion Ratio Lower Upper
152 100
150 153.5 125.5 188.3
115 61.7 48.1 72.1



#5
2-Fluorophenol
Concen: 80.674 ng
RT: 5.434 min Scan# 382
Delta R.T. 0.012 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:112 Resp: 1150629
Ion Ratio Lower Upper
112 100
64 56.7 44.3 66.5
63 29.2 23.0 34.6

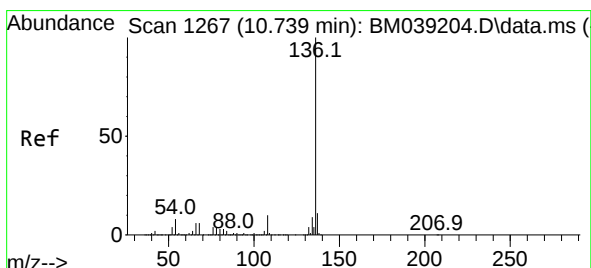
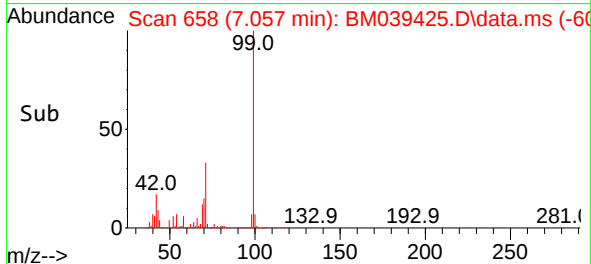
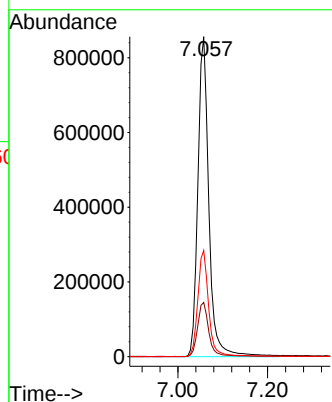
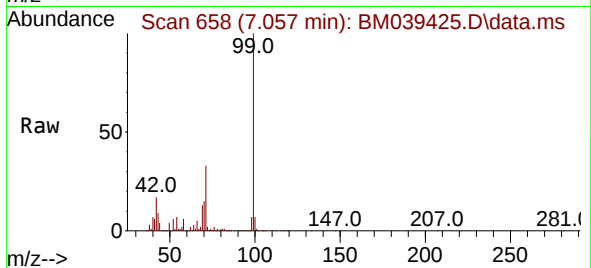




#7
Phenol-d6
Concen: 79.111 ng
RT: 7.057 min Scan# 61
Delta R.T. 0.024 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

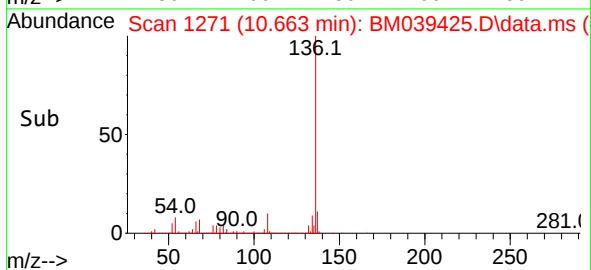
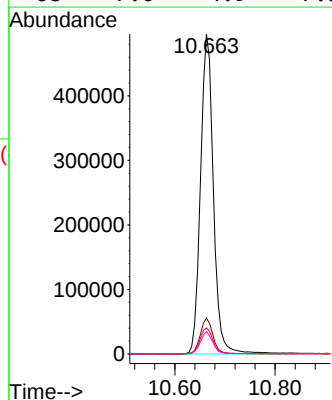
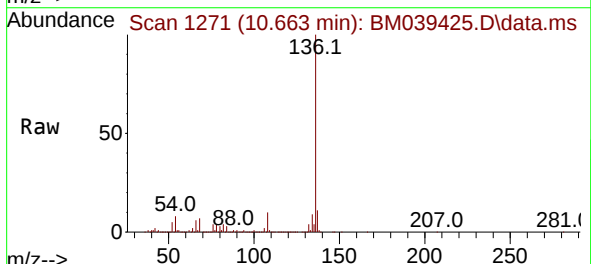
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

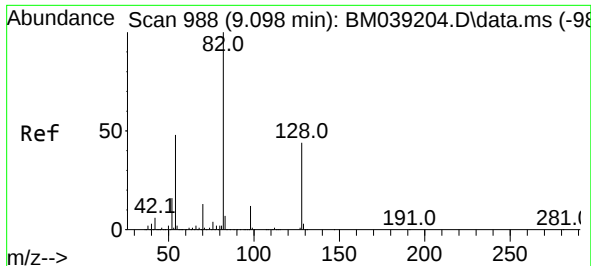
Tgt Ion: 99 Resp: 1459401
Ion Ratio Lower Upper
99 100
42 17.0 13.0 19.6
71 33.2 25.5 38.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1271
Delta R.T. -0.012 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion: 136 Resp: 883844
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 8.1 6.2 9.4
68 7.0 4.9 7.3

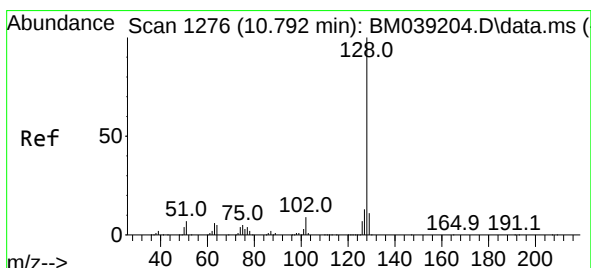
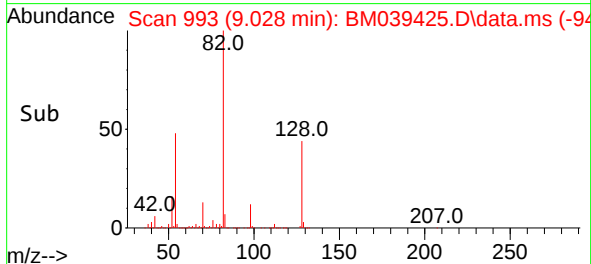
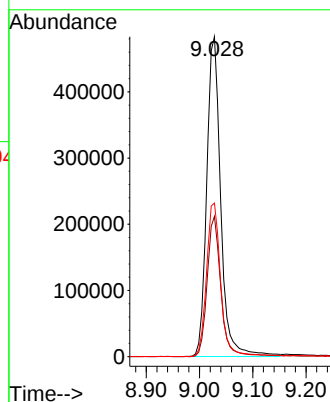
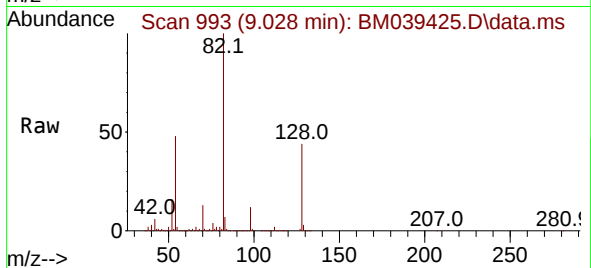




#23
Nitrobenzene-d5
Concen: 48.513 ng
RT: 9.028 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

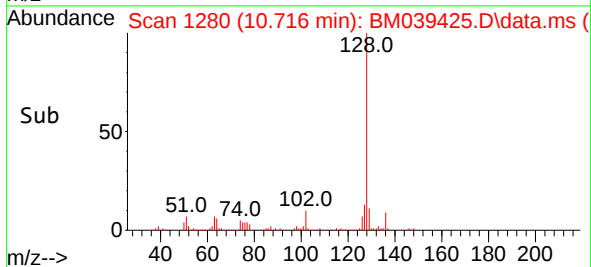
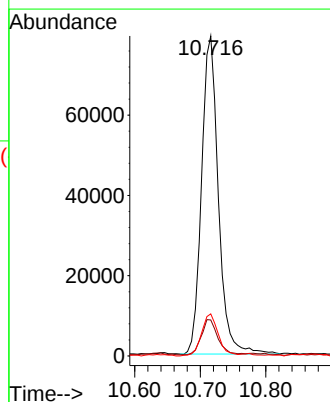
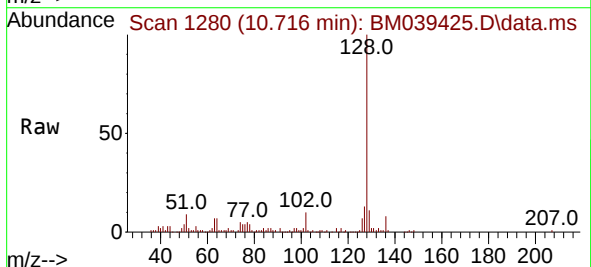
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

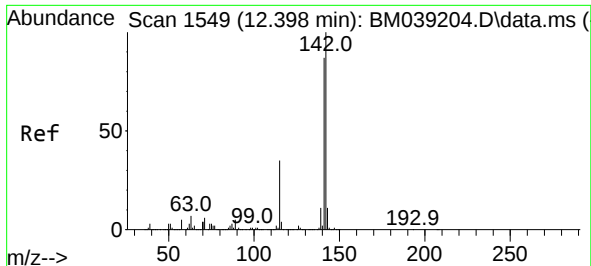
Tgt Ion: 82 Resp: 882210
Ion Ratio Lower Upper
82 100
128 43.8 35.1 52.7
54 48.0 38.5 57.7



#31
Naphthalene
Concen: 2.970 ng
RT: 10.716 min Scan# 1280
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion: 128 Resp: 141444
Ion Ratio Lower Upper
128 100
129 11.3 8.6 13.0
127 13.2 10.3 15.5

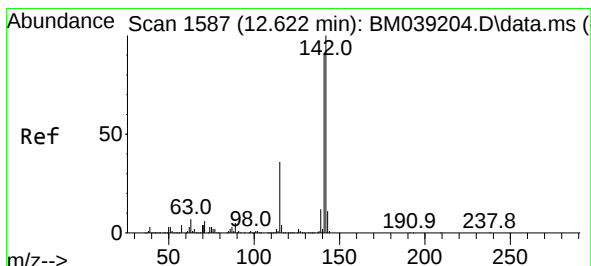
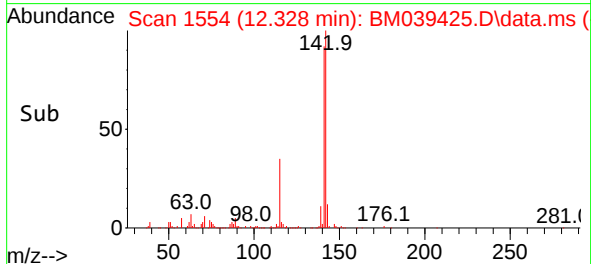
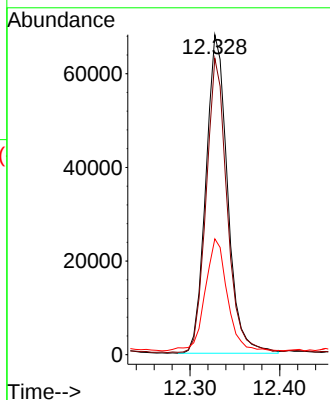
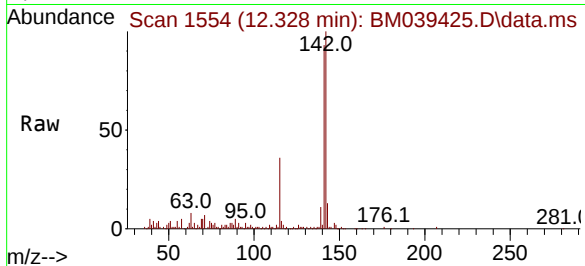




#37
2-Methylnaphthalene
Concen: 3.445 ng
RT: 12.328 min Scan# 11
Delta R.T. -0.012 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

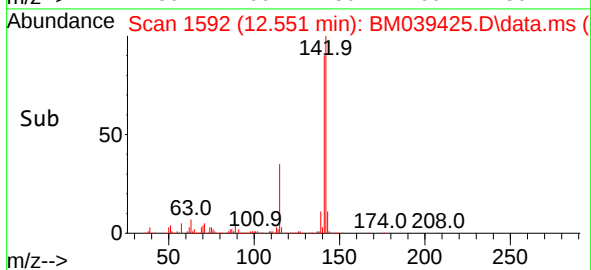
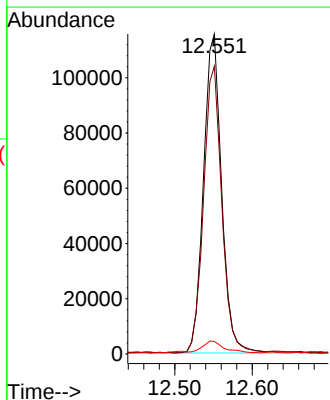
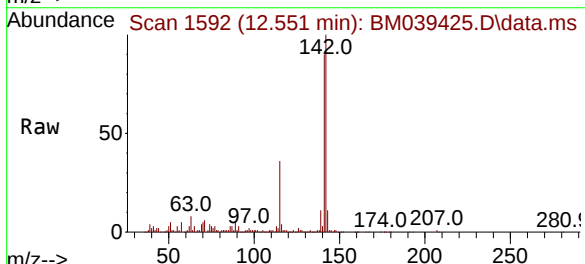
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

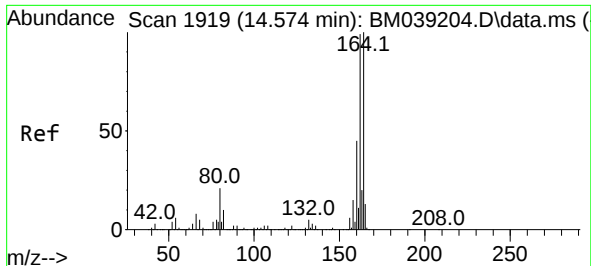
Tgt Ion:142 Resp: 114229
Ion Ratio Lower Upper
142 100
141 92.6 69.8 104.8
115 36.2 27.8 41.8



#38
1-Methylnaphthalene
Concen: 6.038 ng
RT: 12.551 min Scan# 1592
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:142 Resp: 187436
Ion Ratio Lower Upper
142 100
141 89.9 73.2 109.8
116 3.9 3.0 4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.510 min Scan# 1919

Delta R.T. -0.006 min

Lab File: BM039425.D

Acq: 13 Apr 2023 23:59

Instrument :

BNA_M

ClientSampleId :

PL-02-041223

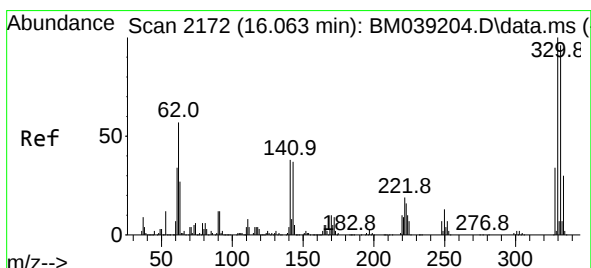
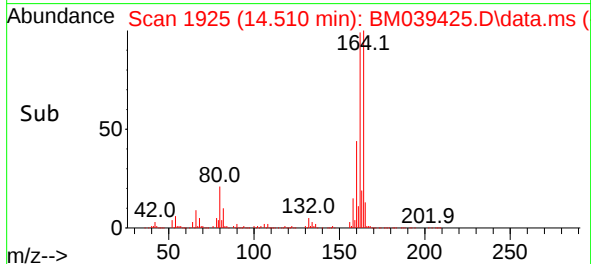
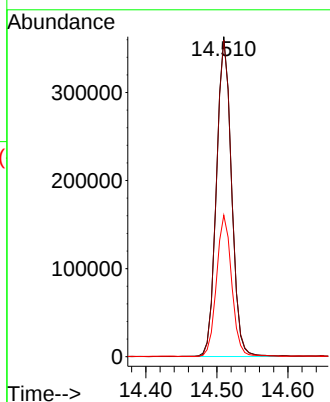
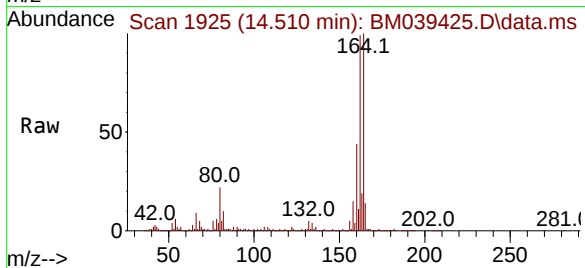
Tgt Ion:164 Resp: 532068

Ion Ratio Lower Upper

164 100

162 98.9 79.1 118.7

160 44.2 35.8 53.8



#42

2,4,6-Tribromophenol

Concen: 74.277 ng

RT: 16.010 min Scan# 2180

Delta R.T. -0.006 min

Lab File: BM039425.D

Acq: 13 Apr 2023 23:59

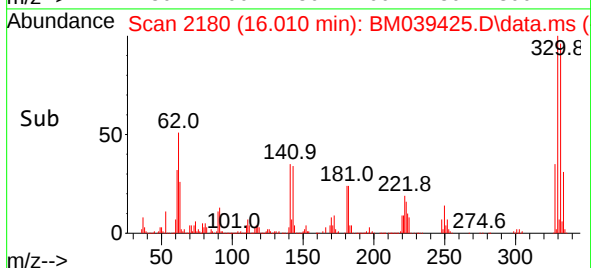
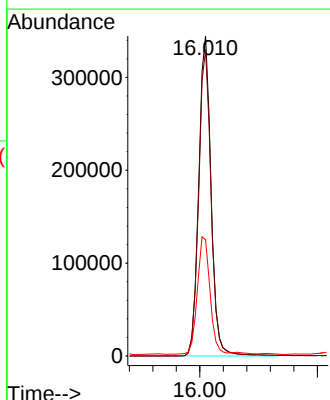
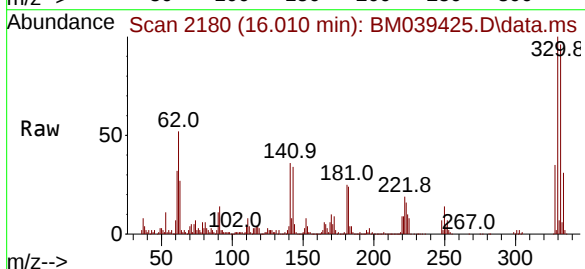
Tgt Ion:330 Resp: 501674

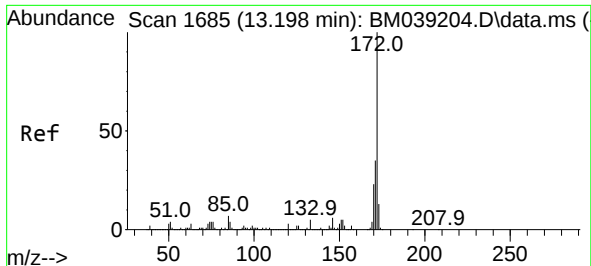
Ion Ratio Lower Upper

330 100

332 96.6 77.4 116.0

141 37.8 29.8 44.6

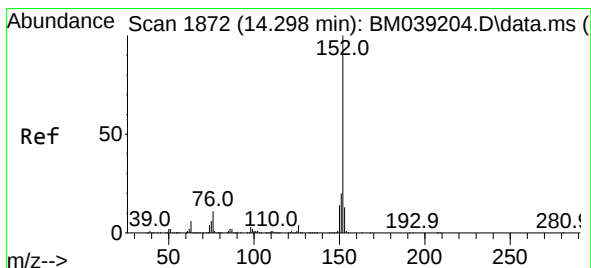
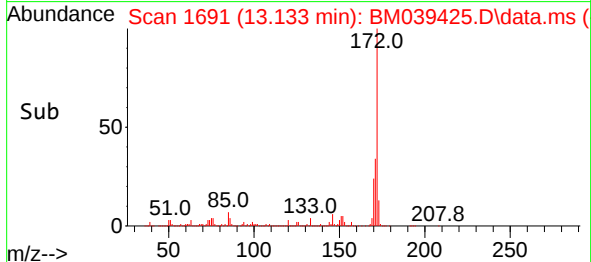
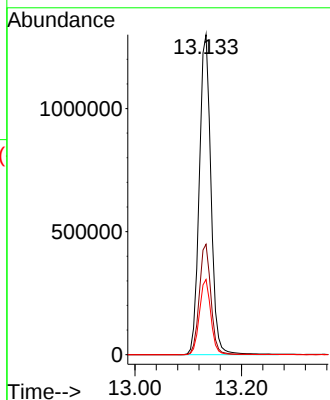
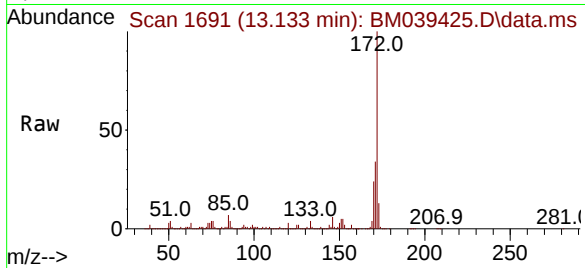




#45
2-Fluorobiphenyl
Concen: 50.242 ng
RT: 13.133 min Scan# 1691
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

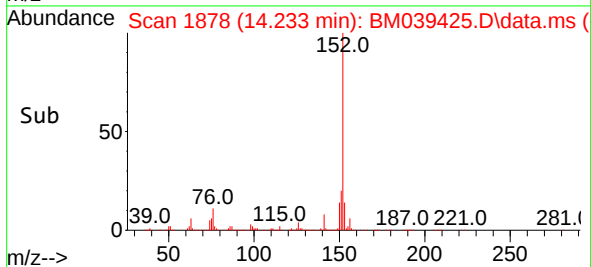
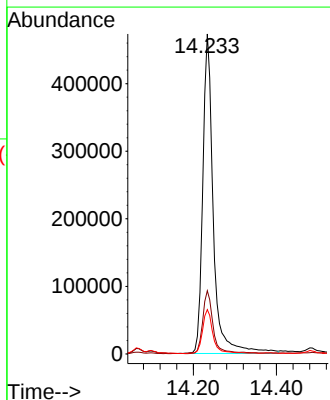
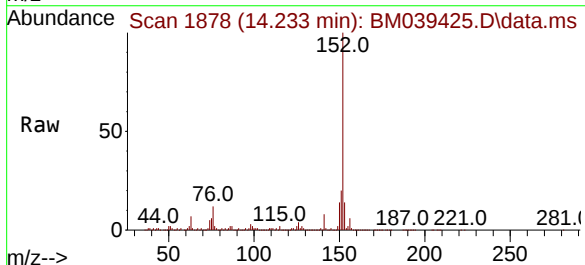
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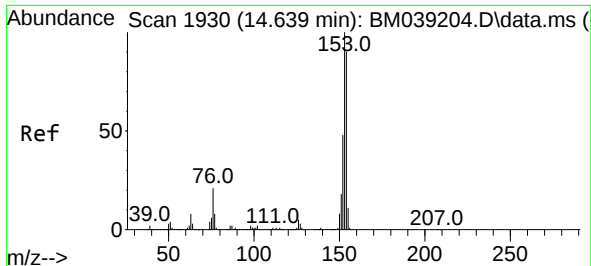
Tgt Ion:172 Resp: 1972964
Ion Ratio Lower Upper
172 100
171 34.5 28.0 42.0
170 23.5 18.7 28.1



#49
Acenaphthylene
Concen: 15.940 ng
RT: 14.233 min Scan# 1878
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:152 Resp: 833429
Ion Ratio Lower Upper
152 100
151 19.7 15.7 23.5
153 13.9 10.3 15.5

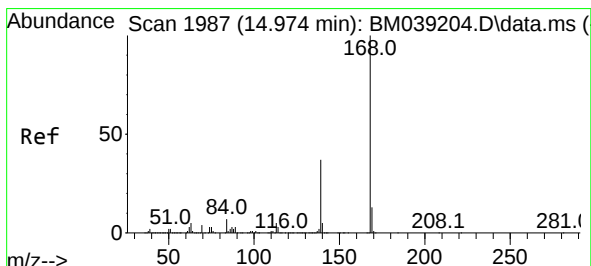
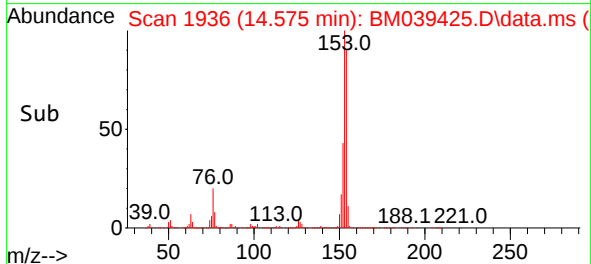
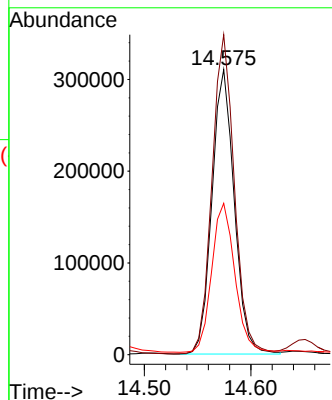
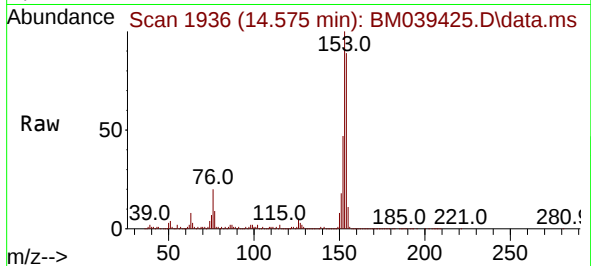




#52
Acenaphthene
Concen: 14.582 ng
RT: 14.575 min Scan# 1936
Delta R.T. -0.012 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

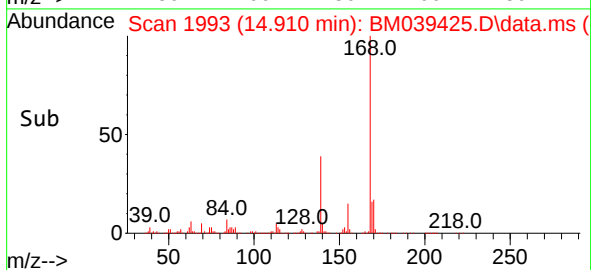
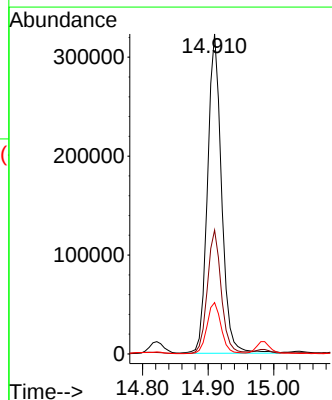
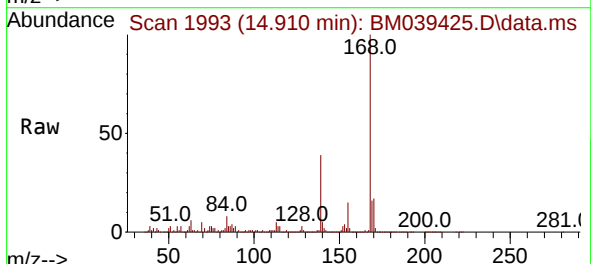
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ClientSampleId :
PL-02-041223

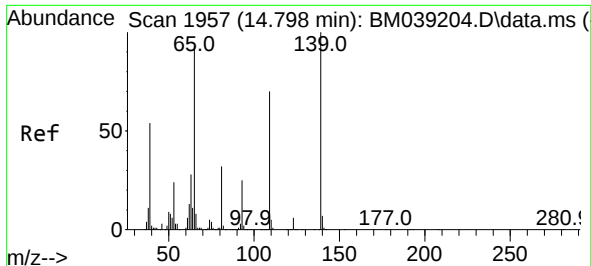
Tgt Ion:154 Resp: 450223
Ion Ratio Lower Upper
154 100
153 112.3 89.1 133.7
152 53.1 42.6 64.0



#55
Dibenzofuran
Concen: 9.669 ng
RT: 14.910 min Scan# 1993
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:168 Resp: 480635
Ion Ratio Lower Upper
168 100
139 38.7 29.4 44.2
169 16.0 10.6 15.8#

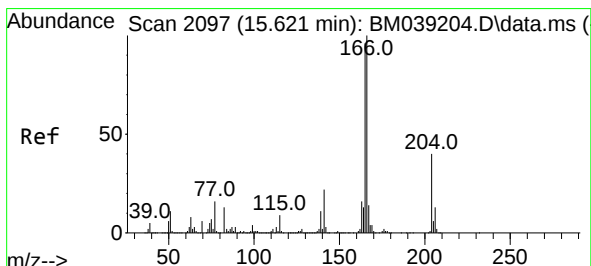
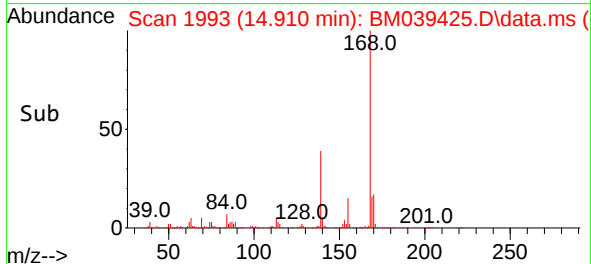
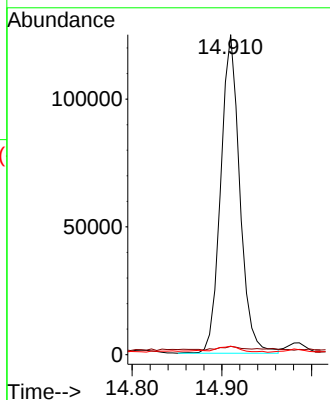
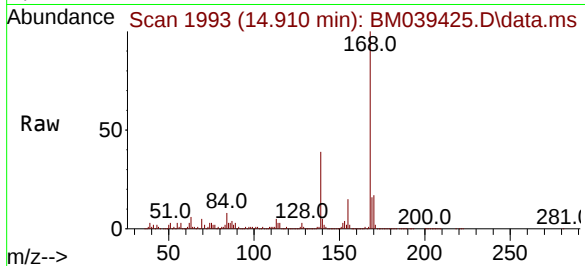




#56
4-Nitrophenol
Concen: 23.426 ng
RT: 14.910 min Scan# 11
Delta R.T. 0.153 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

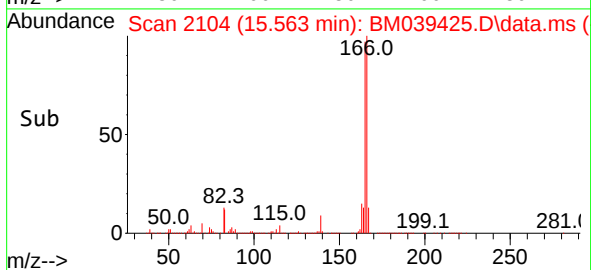
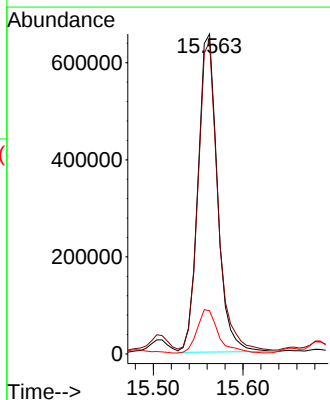
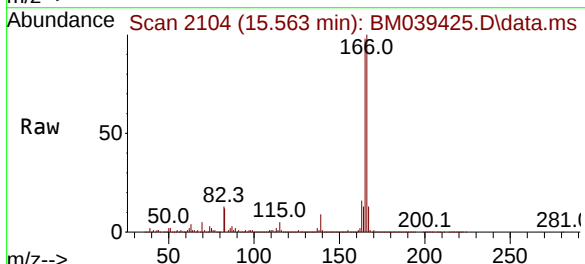
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

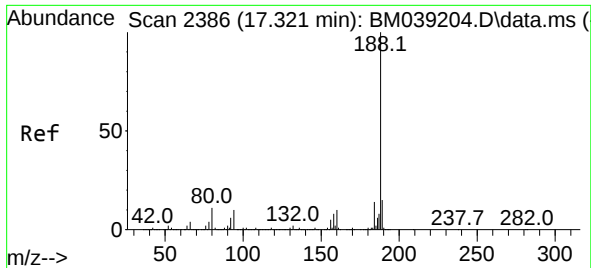
Tgt Ion:139 Resp: 184143
Ion Ratio Lower Upper
139 100
109 2.6 49.6 89.6#
65 2.6 72.9 112.9#



#58
Fluorene
Concen: 25.035 ng
RT: 15.563 min Scan# 2104
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:166 Resp: 985396
Ion Ratio Lower Upper
166 100
165 97.8 76.9 115.3
167 13.5 10.8 16.2

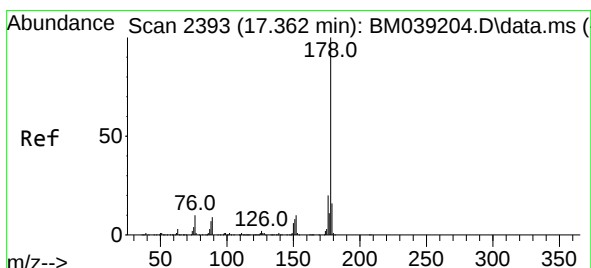
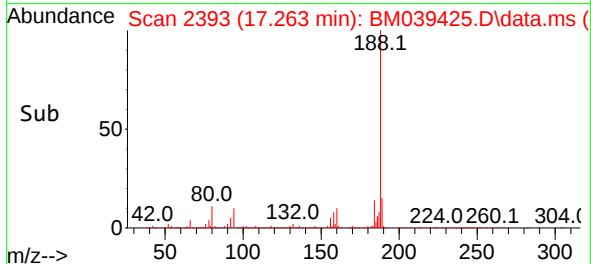
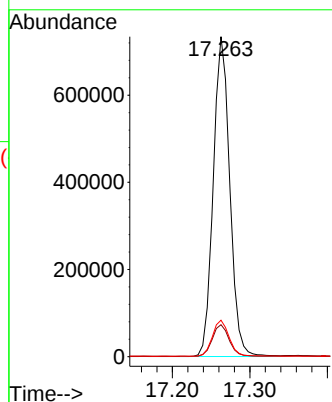
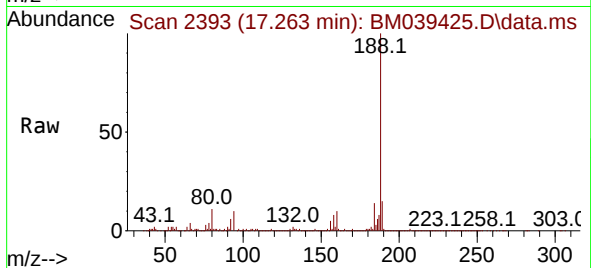




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.263 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

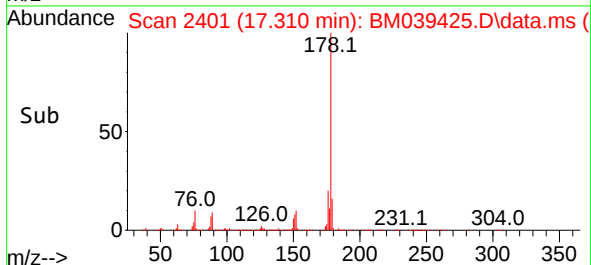
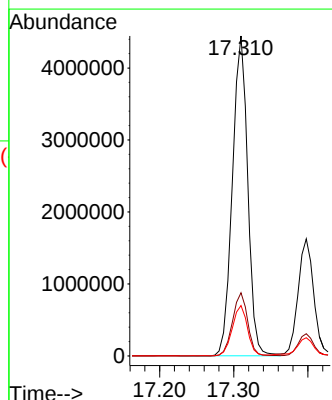
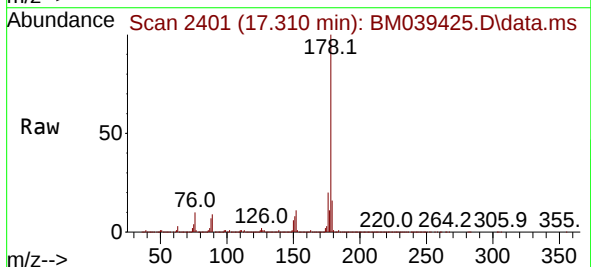
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

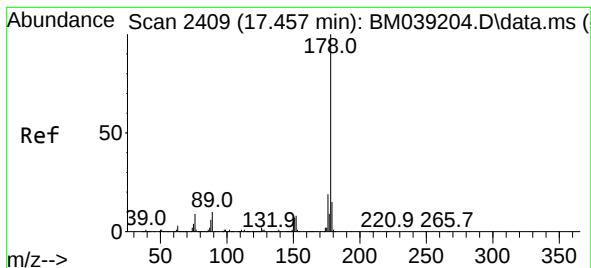
Tgt Ion:188 Resp: 1087918
Ion Ratio Lower Upper
188 100
94 10.0 8.2 12.4
80 11.4 8.9 13.3



#71
Phenanthrene
Concen: 107.188 ng
RT: 17.310 min Scan# 2401
Delta R.T. 0.000 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:178 Resp: 6386655
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.8 12.4 18.6





#72

Anthracene

Concen: 37.720 ng

RT: 17.398 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM039425.D

Acq: 13 Apr 2023 23:59

Instrument :

BNA_M

ClientSampleId :

PL-02-041223

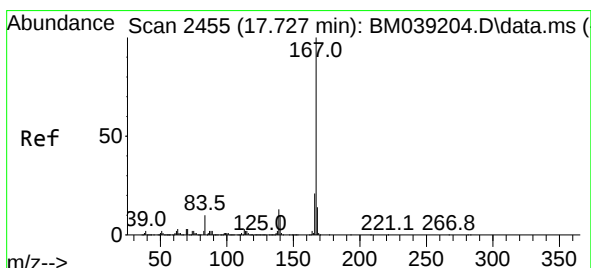
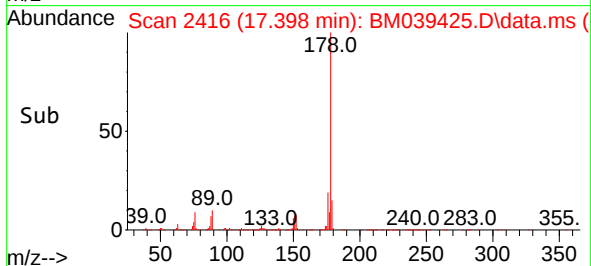
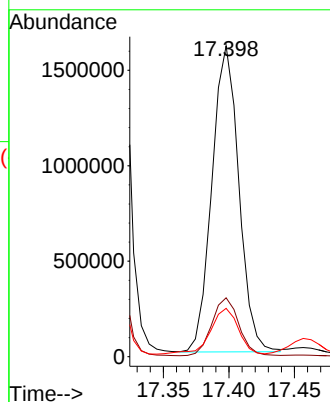
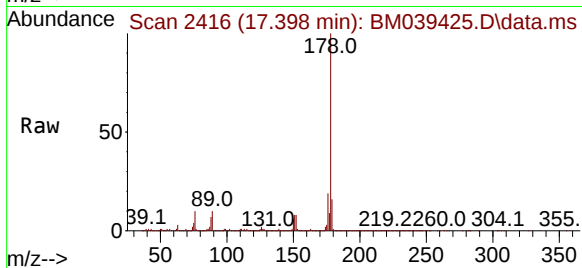
Tgt Ion:178 Resp: 2291686

Ion Ratio Lower Upper

178 100

176 19.0 14.9 22.3

179 15.5 12.2 18.2



#73

Carbazole

Concen: 8.390 ng

RT: 17.680 min Scan# 2464

Delta R.T. 0.000 min

Lab File: BM039425.D

Acq: 13 Apr 2023 23:59

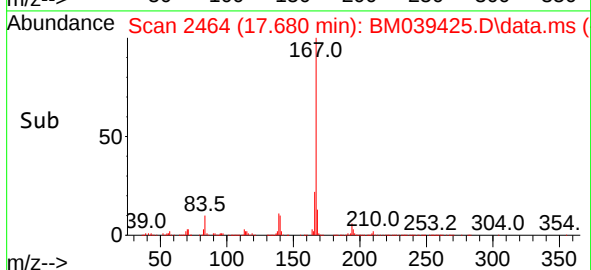
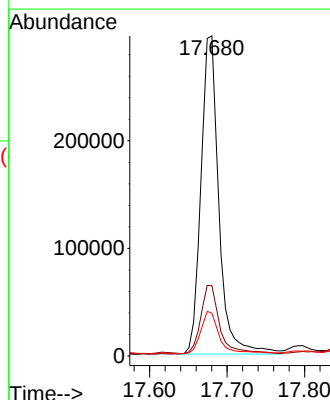
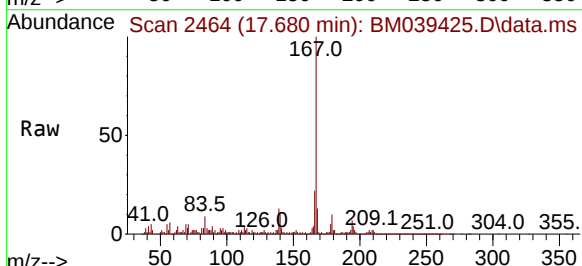
Tgt Ion:167 Resp: 476302

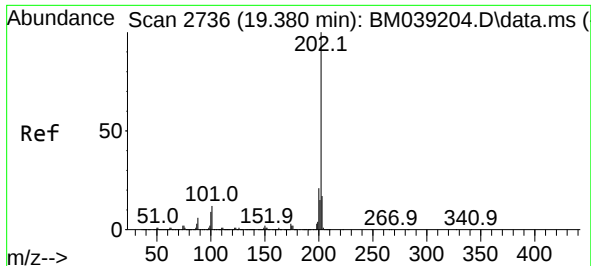
Ion Ratio Lower Upper

167 100

166 22.0 17.2 25.8

139 13.4 10.6 16.0

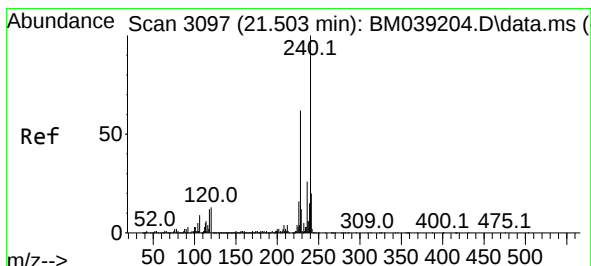
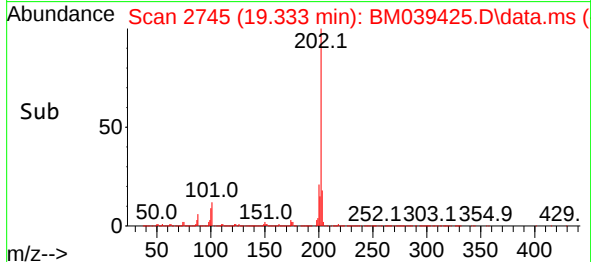
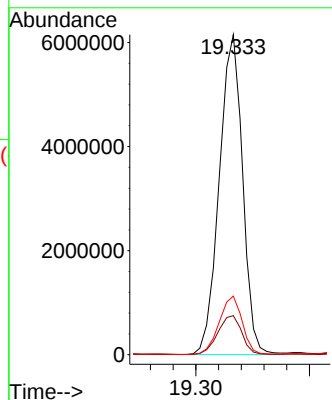
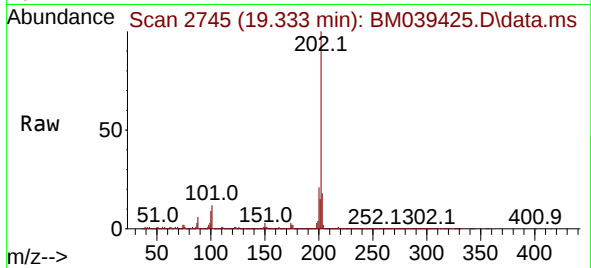




#75
Fluoranthene
Concen: 128.881 ng
RT: 19.333 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

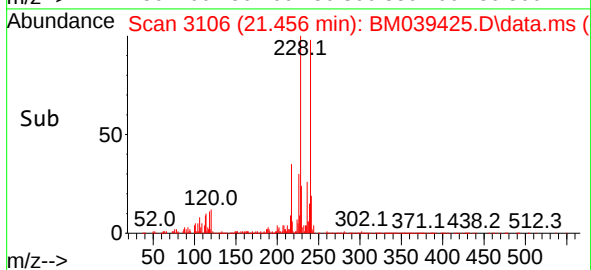
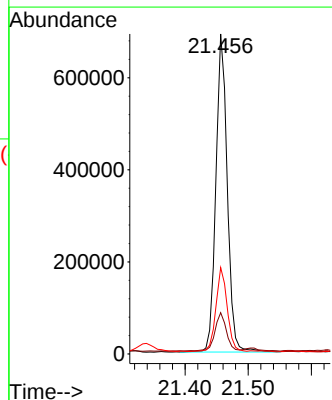
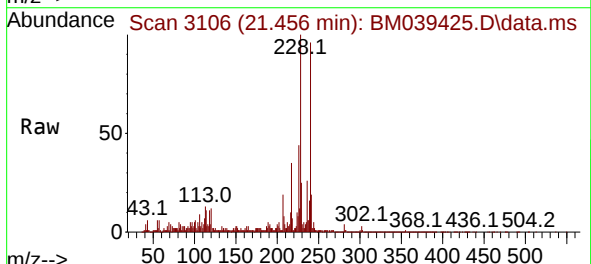
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

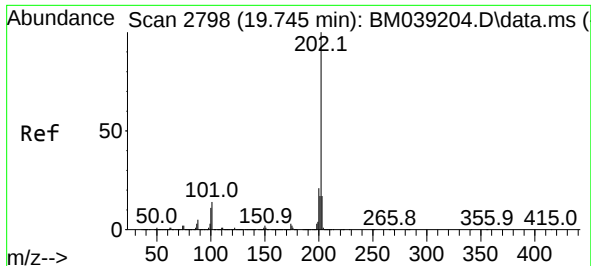
Tgt Ion:202 Resp: 8753709
Ion Ratio Lower Upper
202 100
101 12.2 0.0 32.5
203 18.3 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3106
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:240 Resp: 866574
Ion Ratio Lower Upper
240 100
120 12.9 10.2 15.2
236 27.0 20.9 31.3

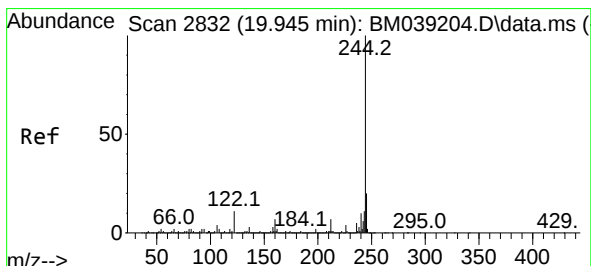
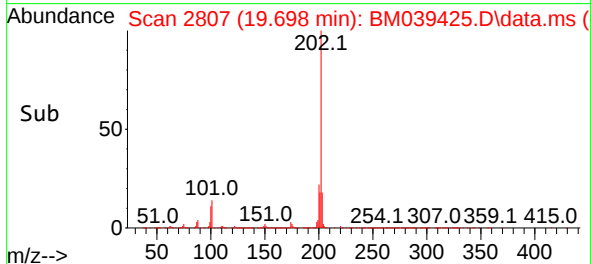
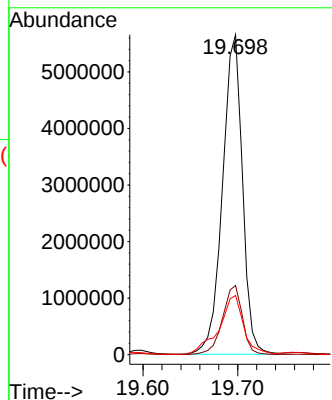
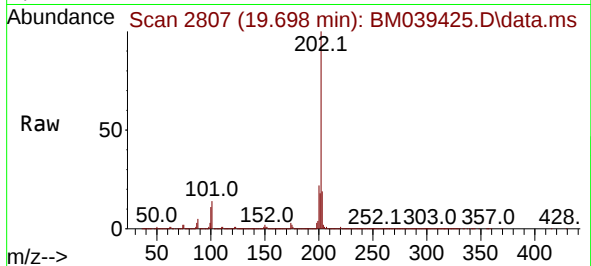




#78
Pyrene
Concen: 134.081 ng
RT: 19.698 min Scan# 2798
Delta R.T. 0.000 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

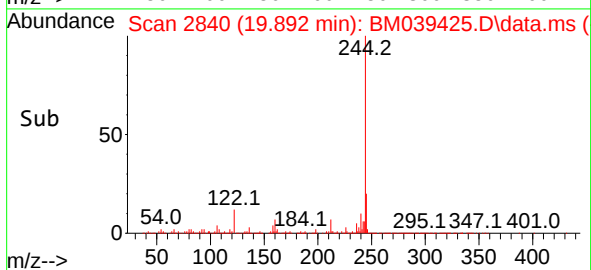
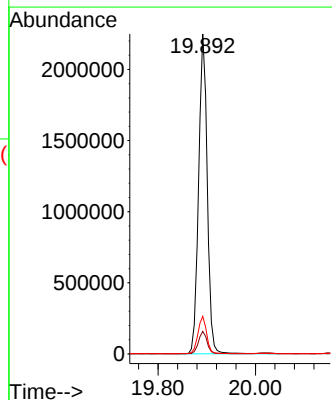
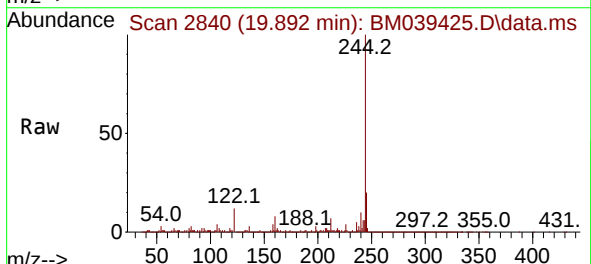
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

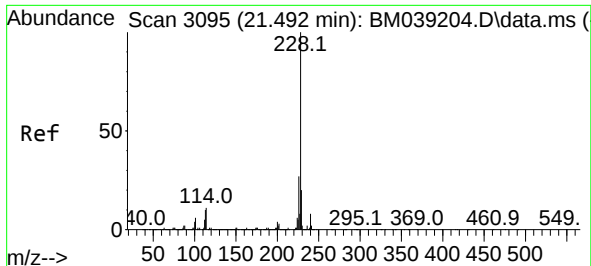
Tgt Ion:202 Resp: 8271549
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 18.5 13.9 20.9



#79
Terphenyl-d14
Concen: 59.433 ng
RT: 19.892 min Scan# 2840
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:244 Resp: 2787627
Ion Ratio Lower Upper
244 100
212 7.1 5.6 8.4
122 11.7 9.1 13.7

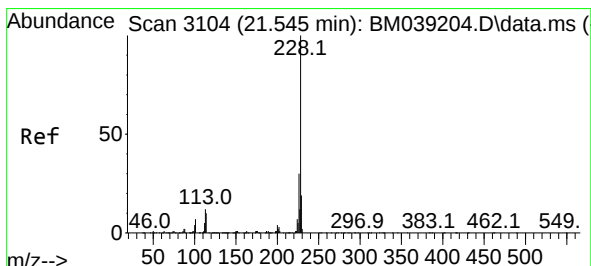
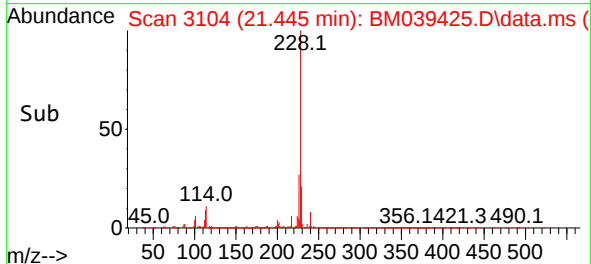
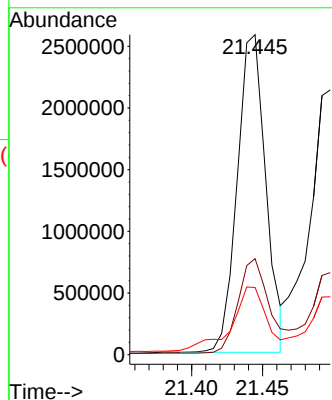
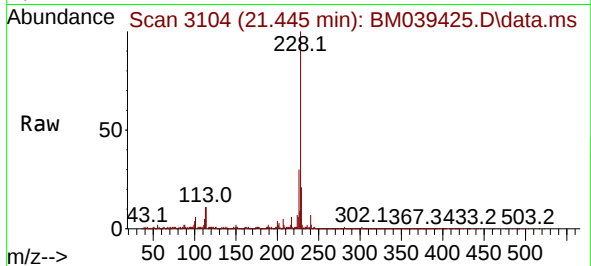




#81
Benzo(a)anthracene
Concen: 58.862 ng
RT: 21.445 min Scan# 3113
Delta R.T. 0.000 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

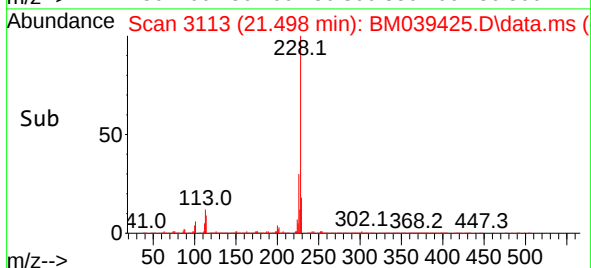
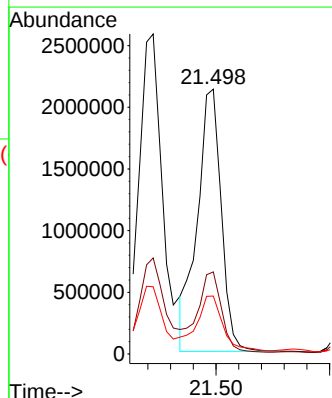
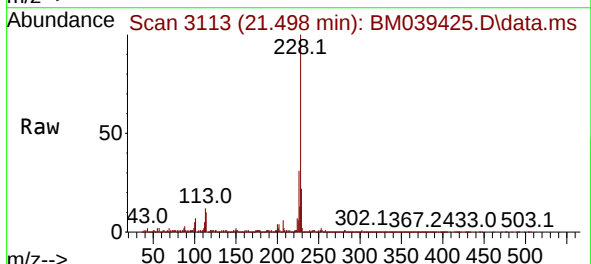
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

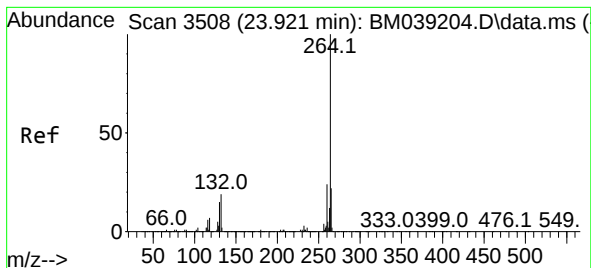
Tgt Ion:228 Resp: 3597429
Ion Ratio Lower Upper
228 100
226 30.0 21.9 32.9
229 21.0 15.8 23.6



#83
Chrysene
Concen: 52.832 ng
RT: 21.498 min Scan# 3113
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:228 Resp: 3117076
Ion Ratio Lower Upper
228 100
226 31.0 24.1 36.1
229 21.8 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.845 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM039425.D

Acq: 13 Apr 2023 23:59

Instrument :

BNA_M

ClientSampleId :

PL-02-041223

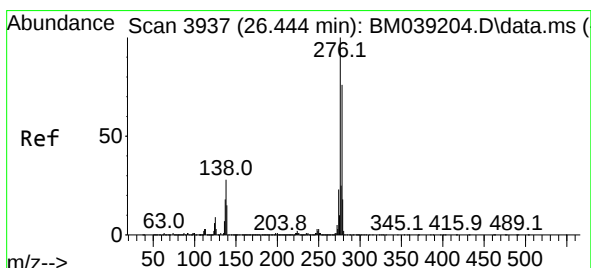
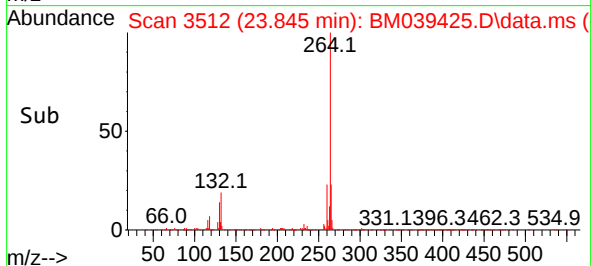
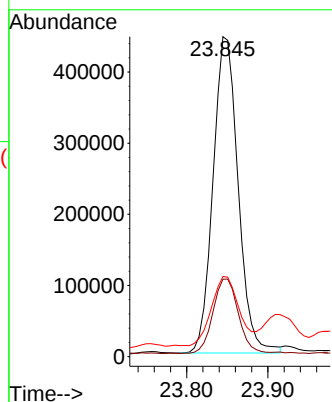
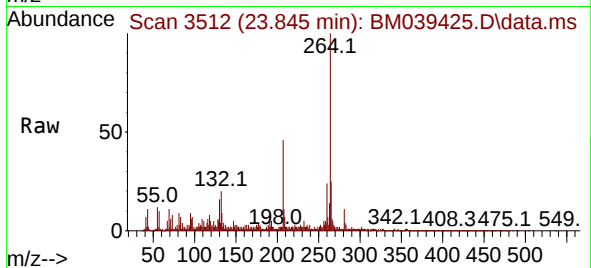
Tgt Ion:264 Resp: 956722

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.6

265 25.1 18.1 27.1



#87

Indeno(1,2,3-cd)pyrene

Concen: 26.554 ng

RT: 26.338 min Scan# 3936

Delta R.T. 0.000 min

Lab File: BM039425.D

Acq: 13 Apr 2023 23:59

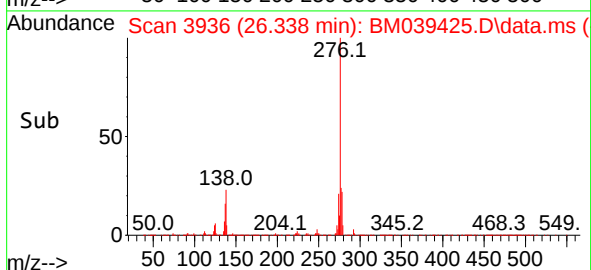
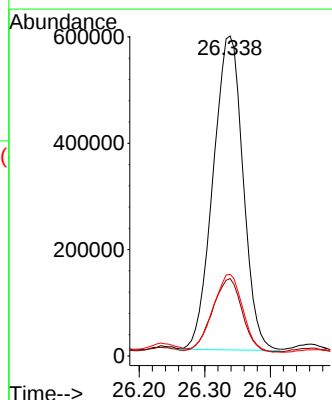
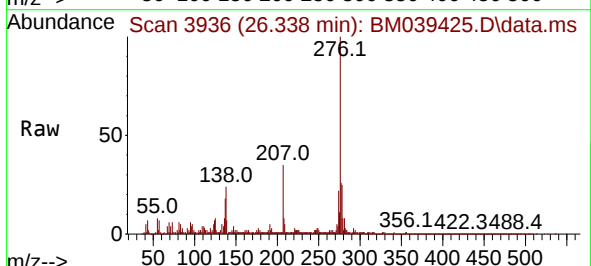
Tgt Ion:276 Resp: 1871843

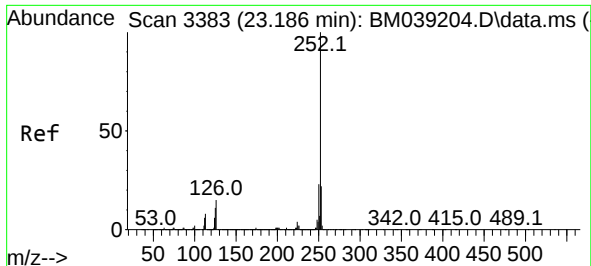
Ion Ratio Lower Upper

276 100

138 23.4 22.2 33.2

277 24.9 20.2 30.2

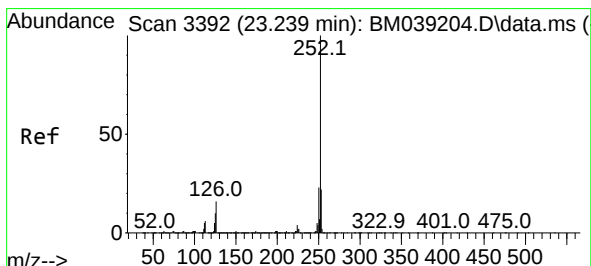
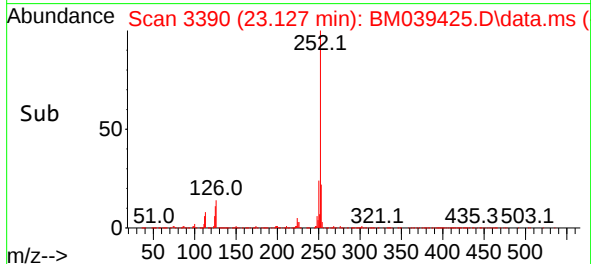
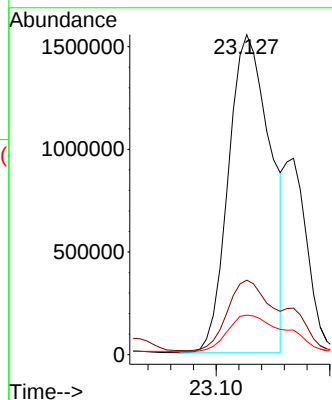
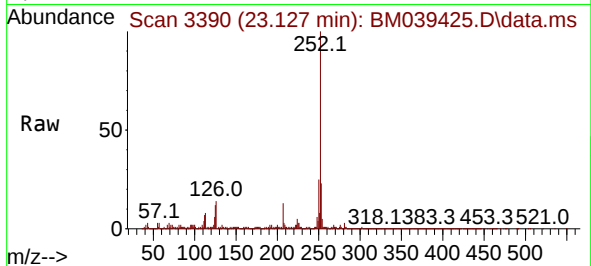




#88
Benzo(b)fluoranthene
Concen: 68.053 ng
RT: 23.127 min Scan# 31
Delta R.T. 0.000 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

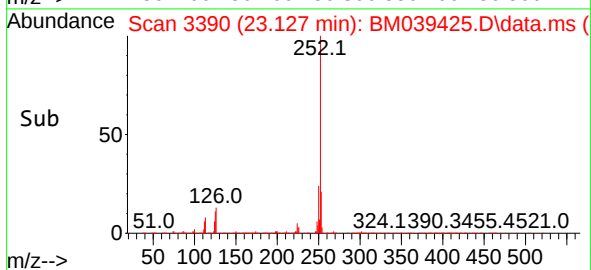
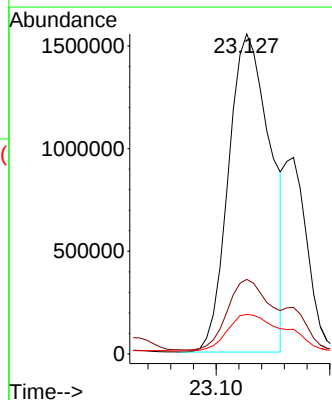
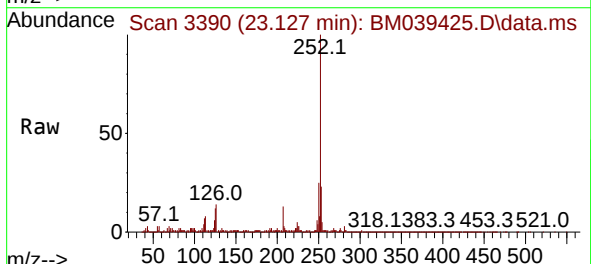
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

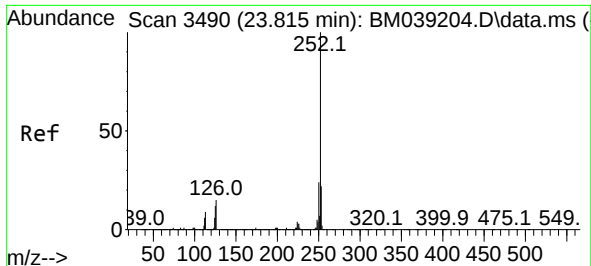
Tgt Ion:252 Resp: 3983807
Ion Ratio Lower Upper
252 100
253 23.3 17.6 26.4
125 12.4 9.0 13.6



#89
Benzo(k)fluoranthene
Concen: 66.810 ng
RT: 23.127 min Scan# 3390
Delta R.T. -0.047 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:252 Resp: 3983807
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 12.4 8.5 12.7

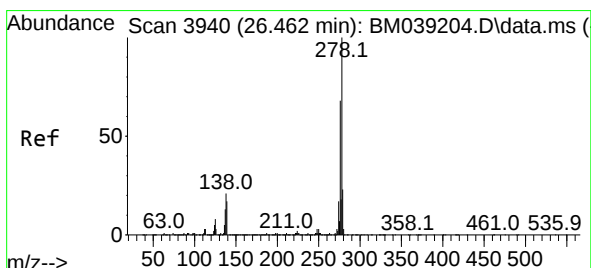
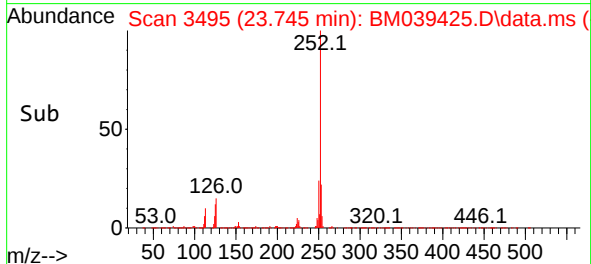
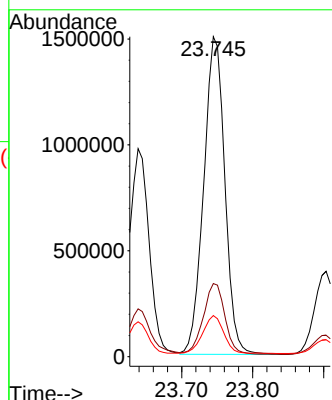
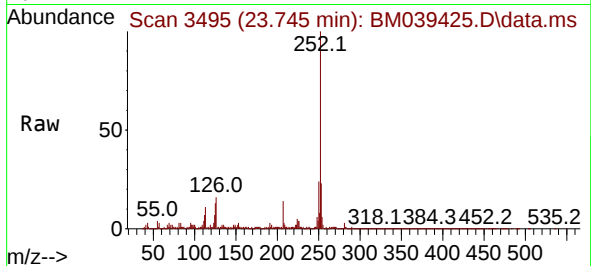




#90
Benzo(a)pyrene
Concen: 54.068 ng
RT: 23.745 min Scan# 34
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

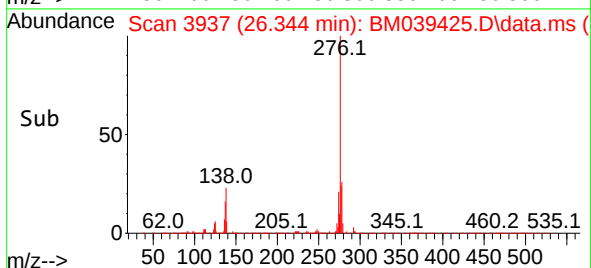
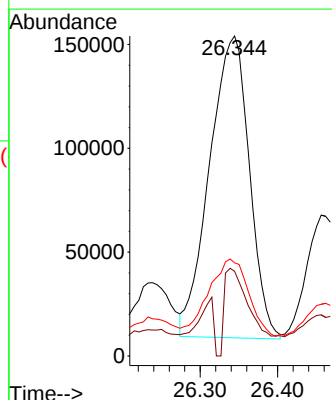
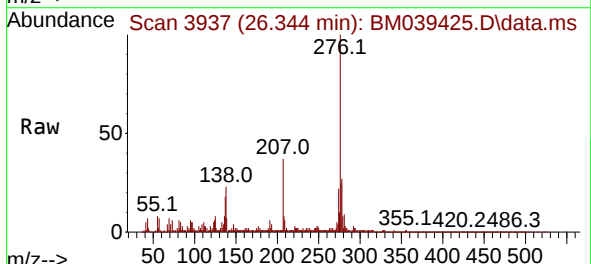
Instrument :
BNA_M
ClientSampleId :
PL-02-041223

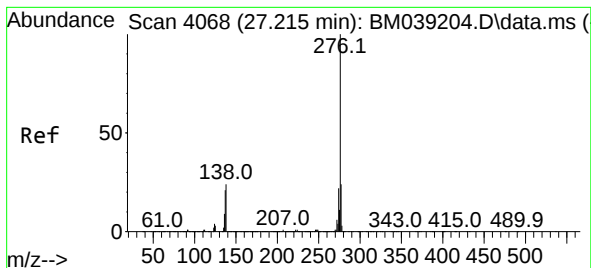
Tgt Ion:252 Resp: 3109314
Ion Ratio Lower Upper
252 100
253 22.8 17.6 26.4
125 12.9 9.8 14.6



#91
Dibenzo(a,h)anthracene
Concen: 8.773 ng
RT: 26.344 min Scan# 3937
Delta R.T. -0.006 min
Lab File: BM039425.D
Acq: 13 Apr 2023 23:59

Tgt Ion:278 Resp: 519267
Ion Ratio Lower Upper
278 100
139 26.4 13.9 20.9#
279 29.1 18.8 28.2#





#92

Benzo(g,h,i)perylene

Concen: 31.357 ng

RT: 27.109 min Scan# 4067

Delta R.T. 0.006 min

Lab File: BM039425.D

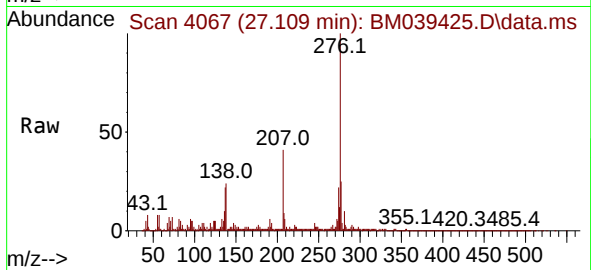
Acq: 13 Apr 2023 23:59

Instrument :

BNA_M

ClientSampleId :

PL-02-041223



Tgt Ion:276 Resp: 1825283

Ion Ratio Lower Upper

276 100

277 24.6 19.1 28.7

138 24.0 19.5 29.3

