

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032322\
 Data File : BM034358.D
 Acq On : 24 Mar 2022 02:46
 Operator : CG/JU
 Sample : N1958-13 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C-13-12-13

Quant Time: Mar 24 03:51:00 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 24 02:40:59 2022
 Response via : Initial Calibration

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

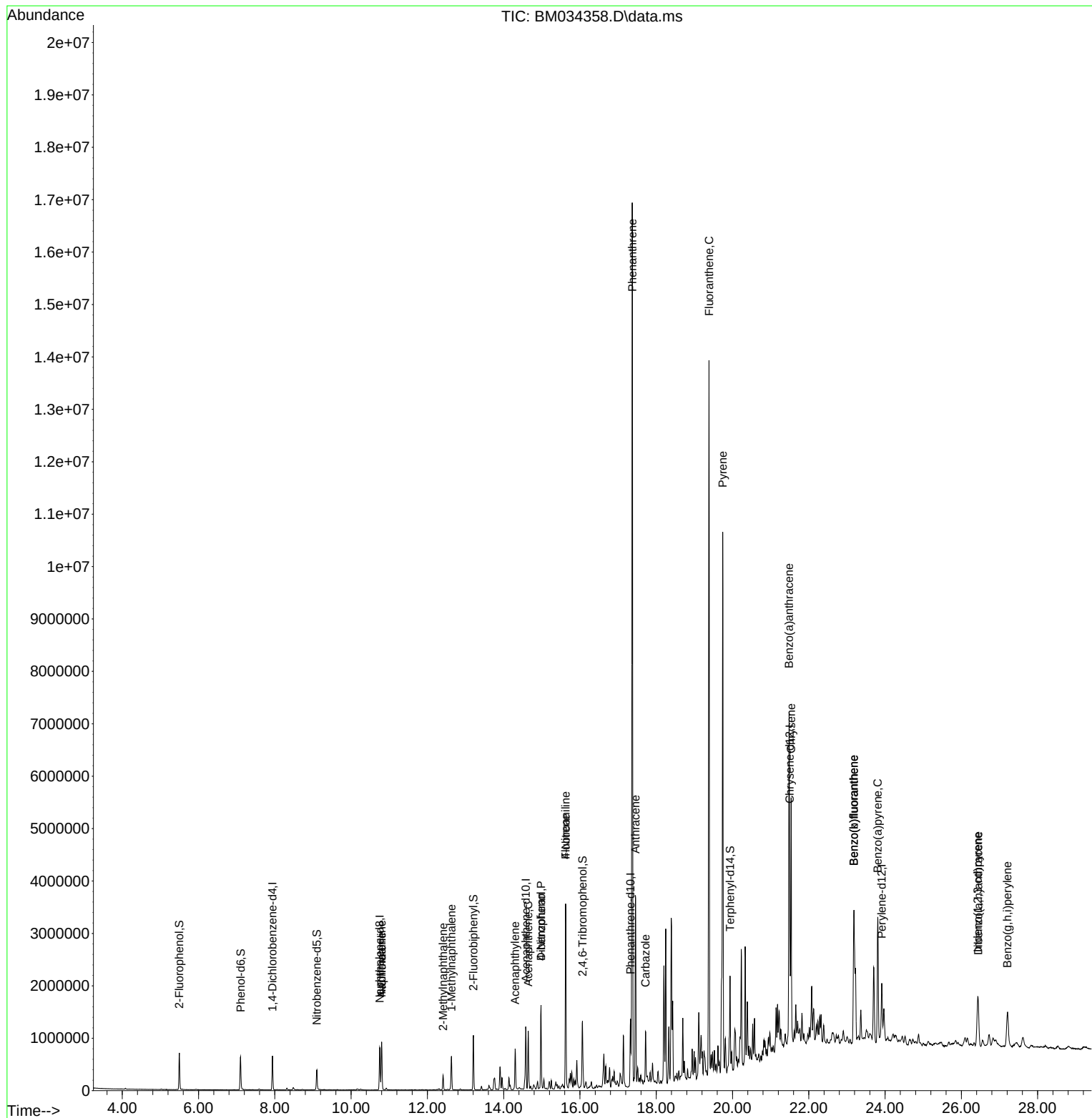
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.937	152	168820	20.000	ng	0.00
21) Naphthalene-d8	10.748	136	668037	20.000	ng	0.00
39) Acenaphthene-d10	14.577	164	398910	20.000	ng	0.00
64) Phenanthrene-d10	17.324	188	776291	20.000	ng	0.00
76) Chrysene-d12	21.495	240	755584	20.000	ng	0.00
86) Perylene-d12	23.912	264	815318	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.496	112	282758	30.047	ng	0.00
7) Phenol-d6	7.101	99	352507	26.163	ng	0.00
23) Nitrobenzene-d5	9.101	82	234964	17.124	ng	0.00
42) 2,4,6-Tribromophenol	16.065	330	140687	26.166	ng	0.00
45) 2-Fluorobiphenyl	13.207	172	513893	17.604	ng	0.00
79) Terphenyl-d14	19.936	244	725169	16.677	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.801	128	714928	20.542	ng	100
33) 4-Chloroaniline	10.801	127	93535	6.813	ng	# 30
37) 2-Methylnaphthalene	12.413	142	130756	5.265	ng	99
38) 1-Methylnaphthalene	12.630	142	281885	11.604	ng	96
49) Acenaphthylene	14.301	152	494520	13.590	ng	99
52) Acenaphthene	14.642	154	378191	15.430	ng	100
55) Dibenzofuran	14.977	168	880918	24.117	ng	99
56) 4-Nitrophenol	14.977	139	343805	67.878	ng	# 3
58) Fluorene	15.624	166	1434582	48.378	ng	99
62) 4-Nitroaniline	15.624	138	18404	3.062	ng	# 17
71) Phenanthrene	17.371	178	9840754	226.360	ng	96
72) Anthracene	17.460	178	2193689	51.842	ng	99
73) Carbazole	17.718	167	614734	15.577	ng	100
75) Fluoranthene	19.383	202	7577635	155.485	ng	96
78) Pyrene	19.742	202	6157110	115.659	ng	98
81) Benzo(a)anthracene	21.483	228	2888851	60.576	ng	97
83) Chrysene	21.536	228	2403144	49.346	ng	97
87) Indeno(1,2,3-cd)pyrene	26.430	276	999840	19.063	ng	99
88) Benzo(b)fluoranthene	23.183	252	2430139	49.845	ng	99
89) Benzo(k)fluoranthene	23.183	252	2430139	47.054	ng	99
90) Benzo(a)pyrene	23.806	252	1855226	44.887	ng	98
91) Dibenzo(a,h)anthracene	26.441	278	300350	7.063	ng	# 82
92) Benzo(g,h,i)perylene	27.206	276	916057	20.811	ng	99

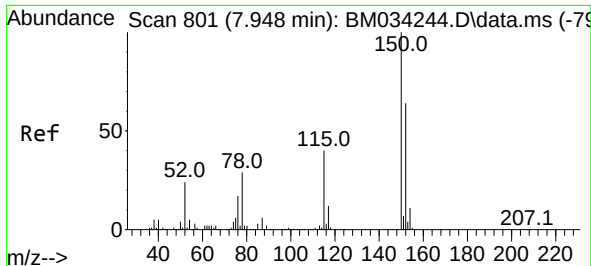
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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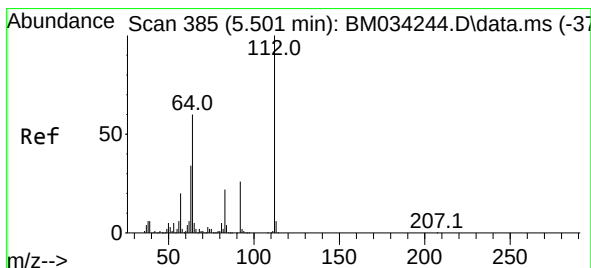
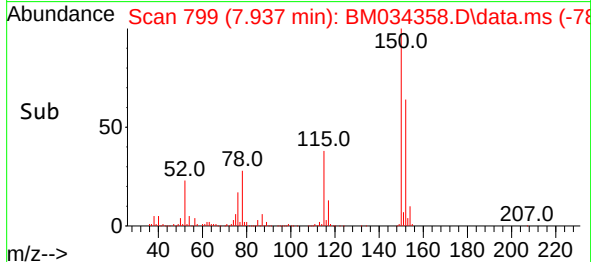
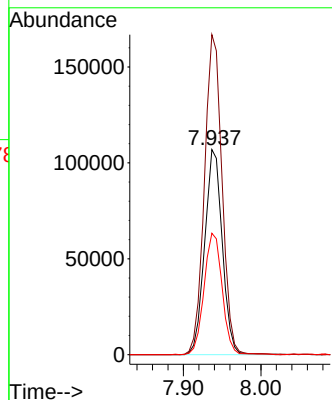
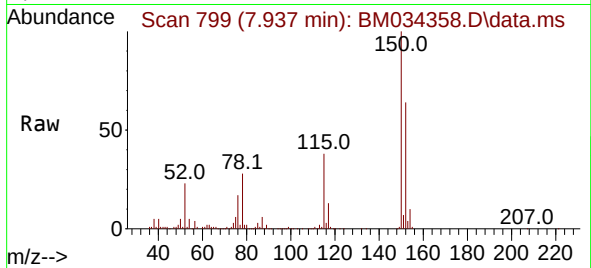




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.937 min Scan# 79
Delta R.T. -0.005 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

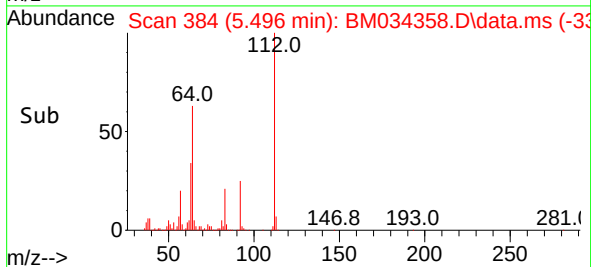
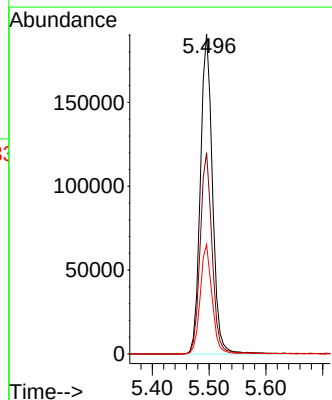
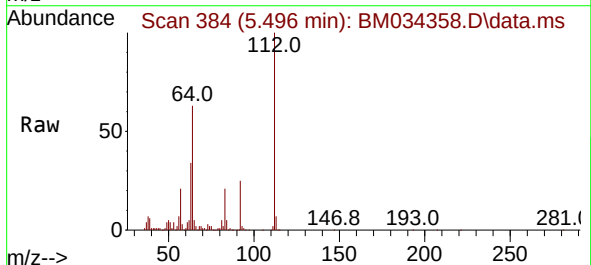
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

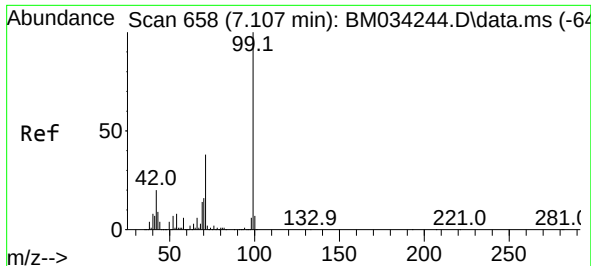
Tgt Ion:152 Resp: 168820
Ion Ratio Lower Upper
152 100
150 156.0 125.4 188.2
115 59.2 50.1 75.1



#5
2-Fluorophenol
Concen: 30.047 ng
RT: 5.496 min Scan# 384
Delta R.T. 0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:112 Resp: 282758
Ion Ratio Lower Upper
112 100
64 62.9 47.9 71.9
63 34.2 27.1 40.7

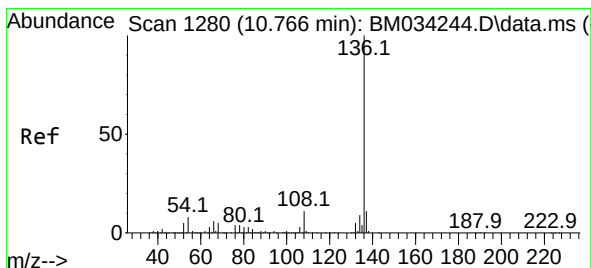
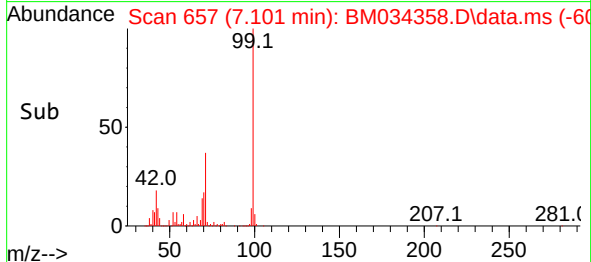
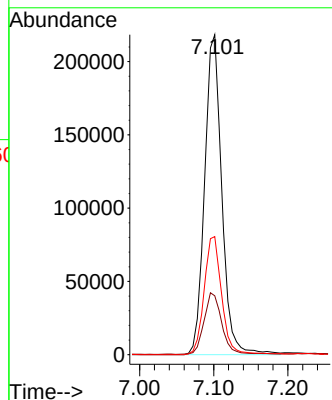
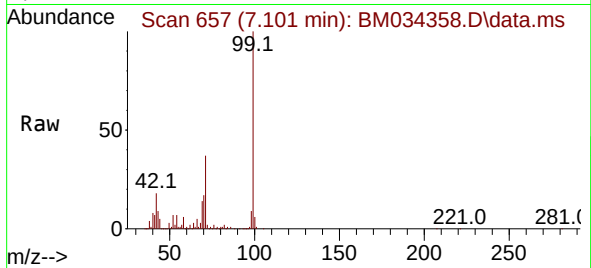




#7
Phenol-d6
Concen: 26.163 ng
RT: 7.101 min Scan# 61
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

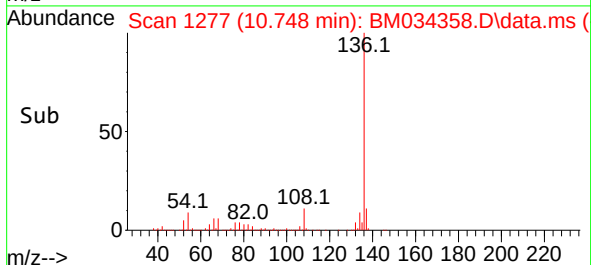
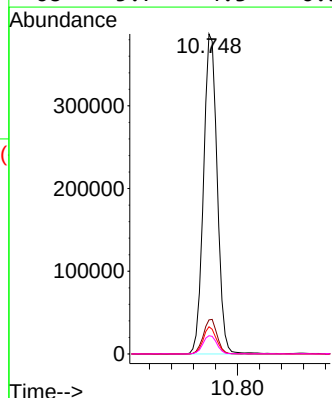
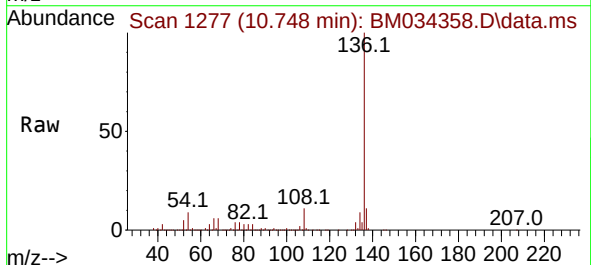
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

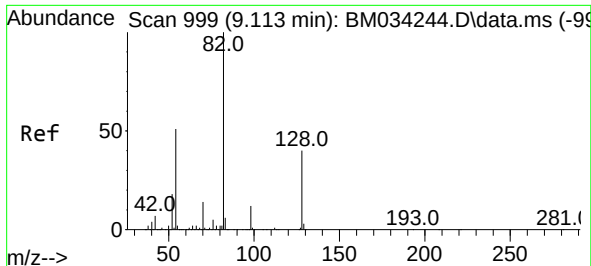
Tgt Ion: 99 Resp: 352507
Ion Ratio Lower Upper
99 100
42 18.4 15.6 23.4
71 36.9 30.6 46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.748 min Scan# 1277
Delta R.T. -0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion: 136 Resp: 668037
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 8.5 6.2 9.4
68 5.7 4.3 6.5

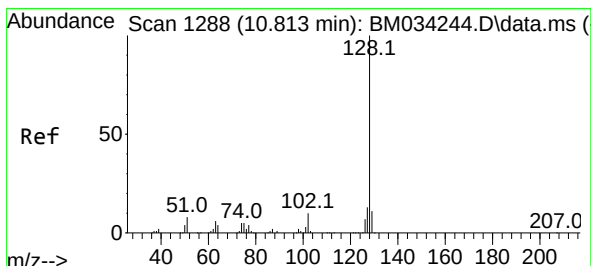
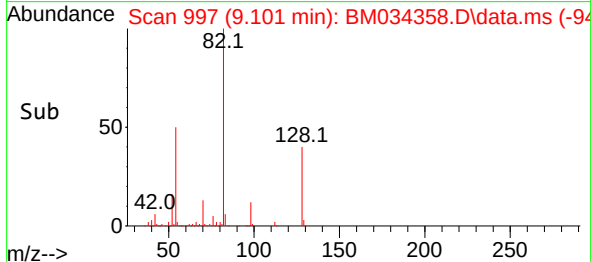
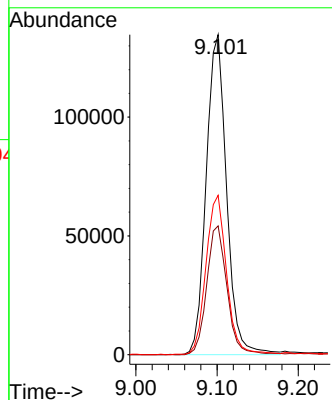
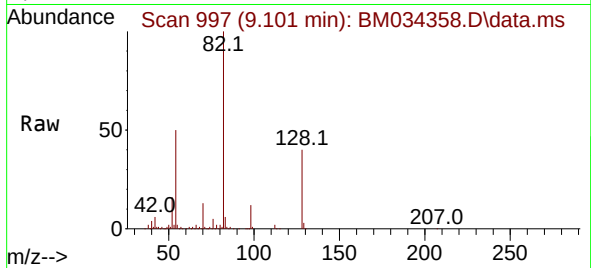




#23
Nitrobenzene-d5
Concen: 17.124 ng
RT: 9.101 min Scan# 999
Delta R.T. -0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

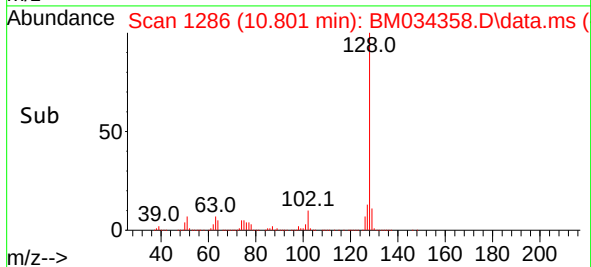
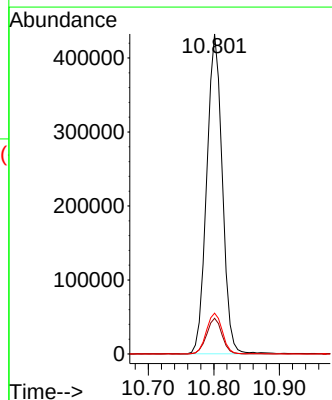
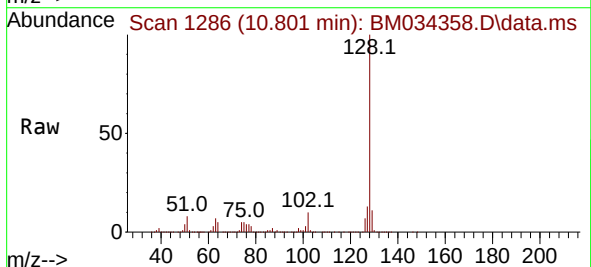
Instrument :
BNA_M
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C-13-12-13

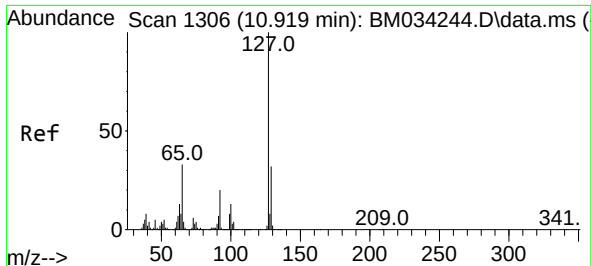
Tgt Ion: 82 Resp: 234964
Ion Ratio Lower Upper
82 100
128 40.2 31.9 47.9
54 49.8 40.6 61.0



#31
Naphthalene
Concen: 20.542 ng
RT: 10.801 min Scan# 1286
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion: 128 Resp: 714928
Ion Ratio Lower Upper
128 100
129 11.1 8.8 13.2
127 12.7 10.2 15.4

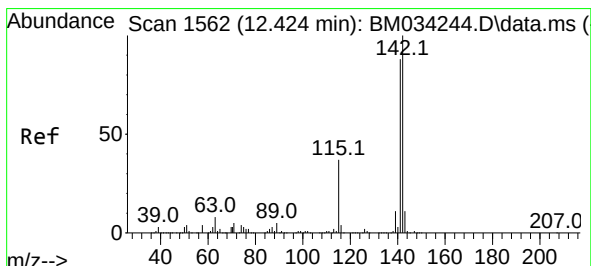
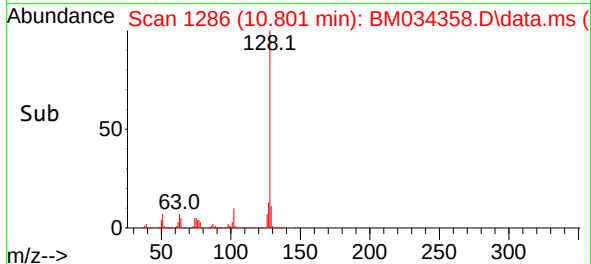
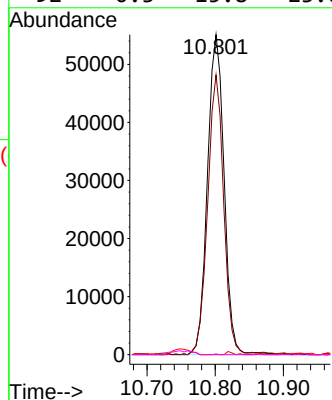
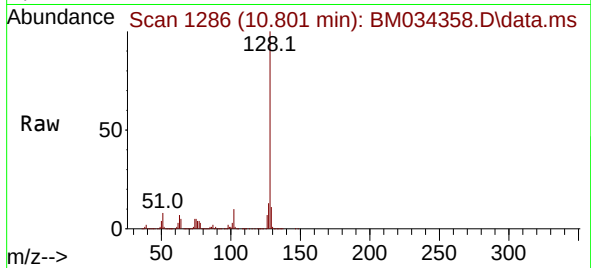




#33
4-Chloroaniline
Concen: 6.813 ng
RT: 10.801 min Scan# 11
Delta R.T. -0.106 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

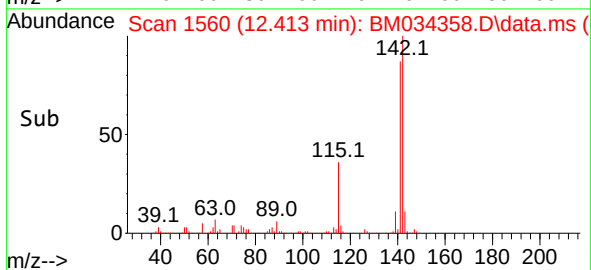
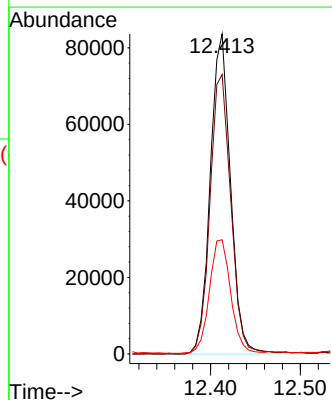
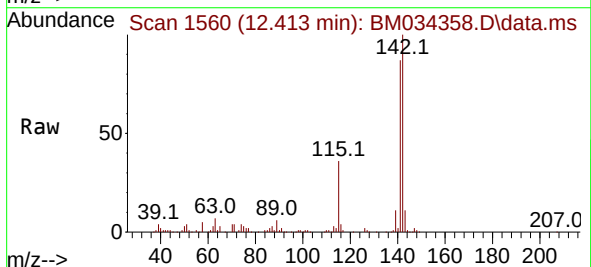
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

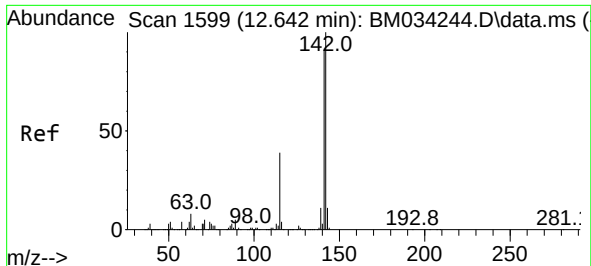
Tgt Ion:127	Resp:	93535
Ion Ratio	Lower	Upper
127	100	
129	87.4	25.4 38.2#
65	0.0	26.2 39.2#
92	0.3	15.8 23.6#



#37
2-Methylnaphthalene
Concen: 5.265 ng
RT: 12.413 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:142	Resp:	130756
Ion Ratio	Lower	Upper
142	100	
141	87.4	70.1 105.1
115	35.7	29.9 44.9

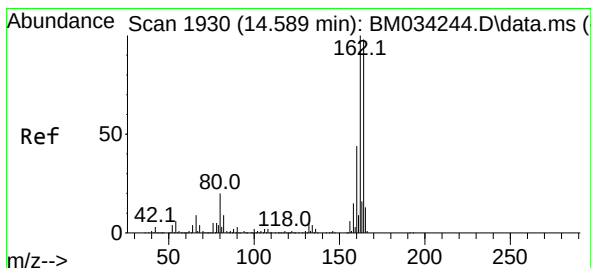
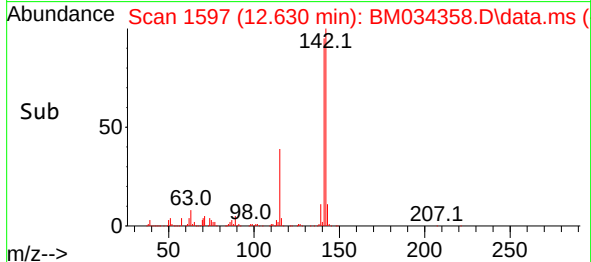
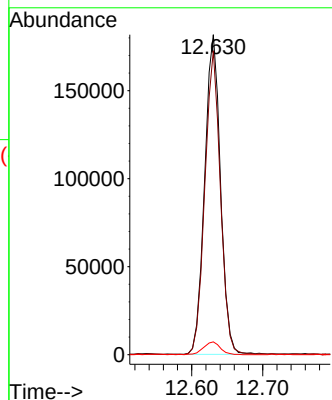
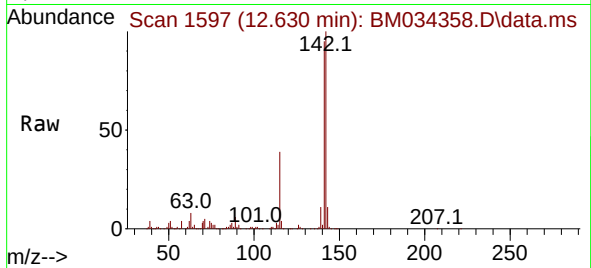




#38
1-Methylnaphthalene
Concen: 11.604 ng
RT: 12.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

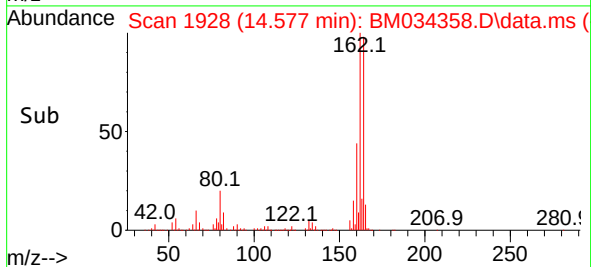
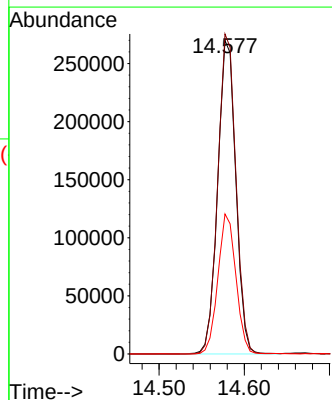
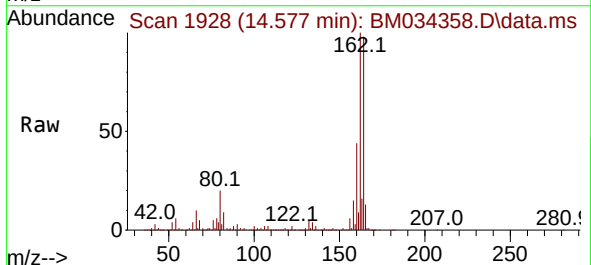
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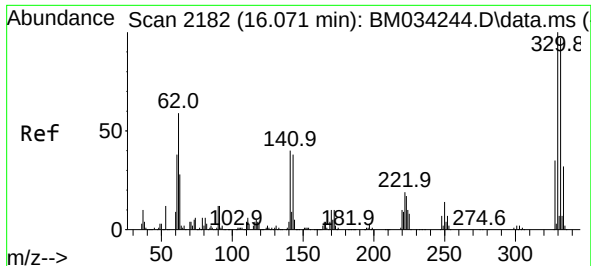
Tgt Ion:142 Resp: 281885
Ion Ratio Lower Upper
142 100
141 94.9 73.0 109.6
116 4.0 3.2 4.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.577 min Scan# 1928
Delta R.T. -0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:164 Resp: 398910
Ion Ratio Lower Upper
164 100
162 102.1 81.6 122.4
160 44.7 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 26.166 ng

RT: 16.065 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

Instrument :

BNA_M

ClientSampleId :

C-13-12-13

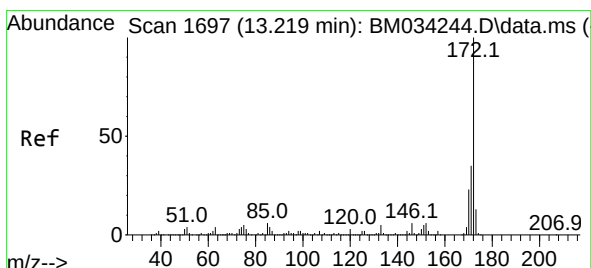
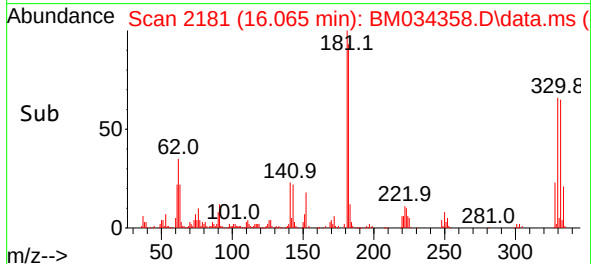
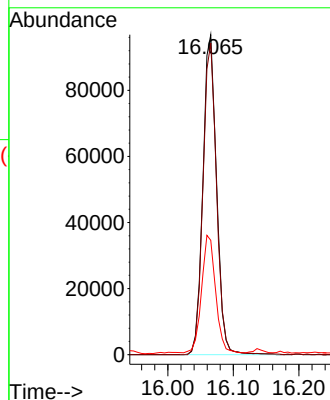
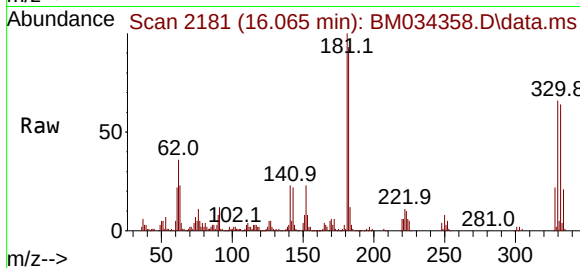
Tgt Ion:330 Resp: 140687

Ion Ratio Lower Upper

330 100

332 97.0 78.2 117.4

141 37.6 30.6 45.8



#45

2-Fluorobiphenyl

Concen: 17.604 ng

RT: 13.207 min Scan# 1695

Delta R.T. -0.006 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

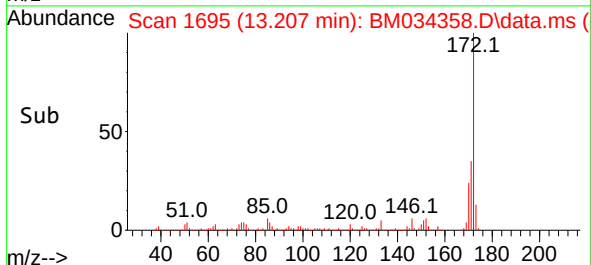
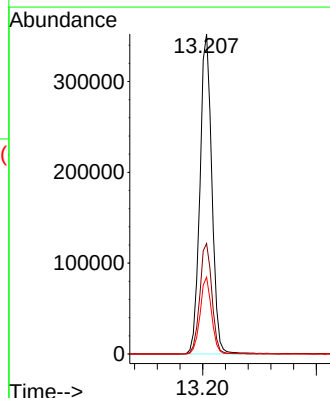
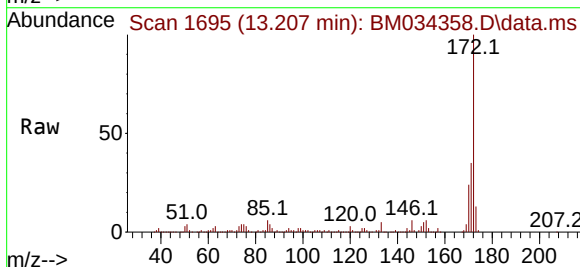
Tgt Ion:172 Resp: 513893

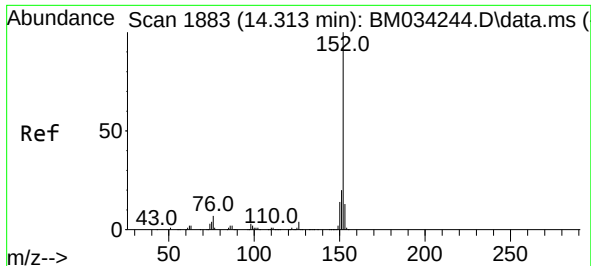
Ion Ratio Lower Upper

172 100

171 34.5 28.0 42.0

170 24.0 18.6 28.0

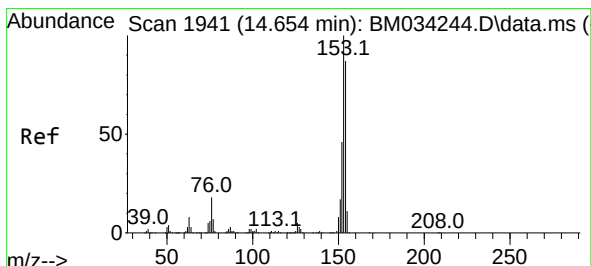
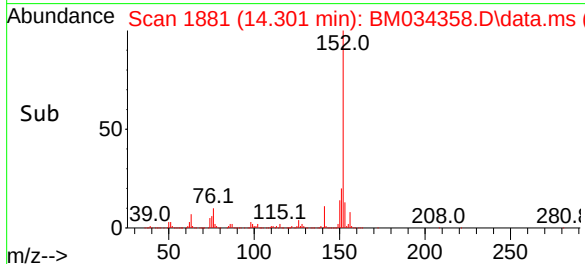
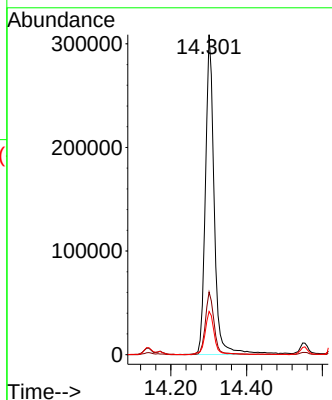
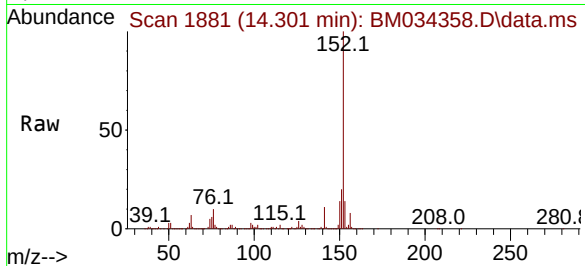




#49
Acenaphthylene
Concen: 13.590 ng
RT: 14.301 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

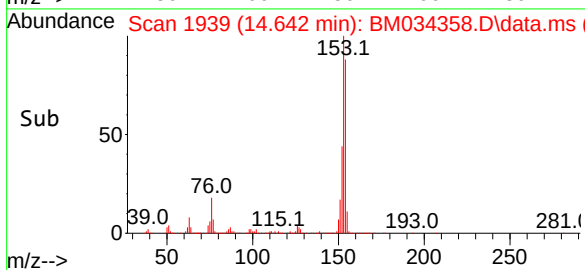
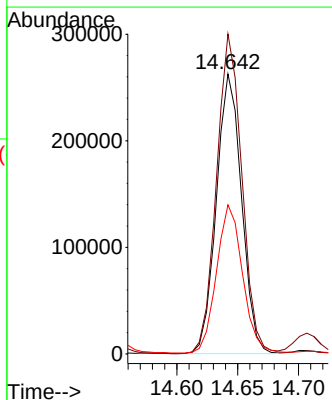
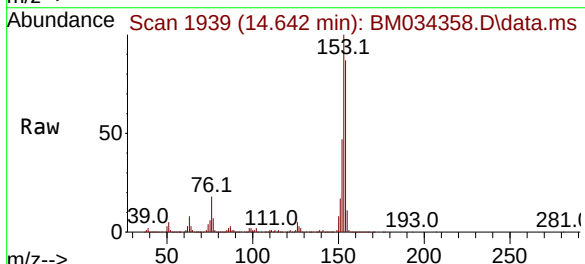
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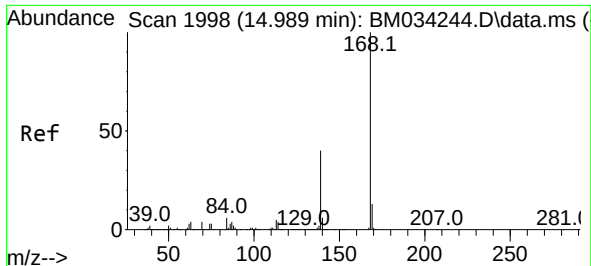
Tgt Ion:152 Resp: 494520
Ion Ratio Lower Upper
152 100
151 19.6 15.9 23.9
153 13.5 10.6 16.0



#52
Acenaphthene
Concen: 15.430 ng
RT: 14.642 min Scan# 1939
Delta R.T. -0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:154 Resp: 378191
Ion Ratio Lower Upper
154 100
153 114.3 91.8 137.8
152 53.3 42.6 64.0

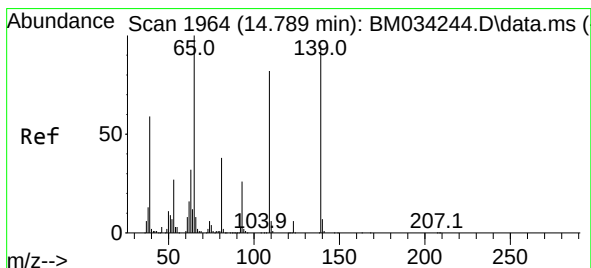
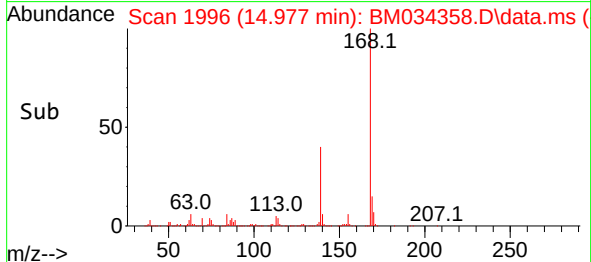
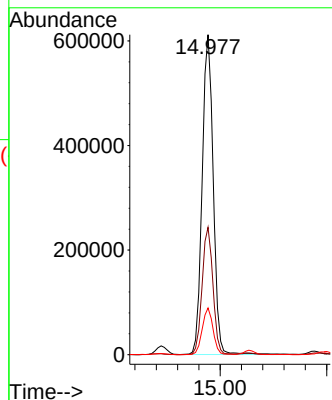
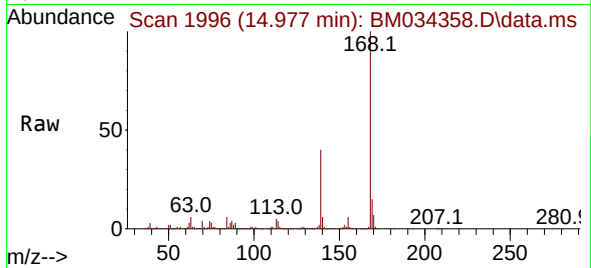




#55
Dibenzenofuran
Concen: 24.117 ng
RT: 14.977 min Scan# 1996
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

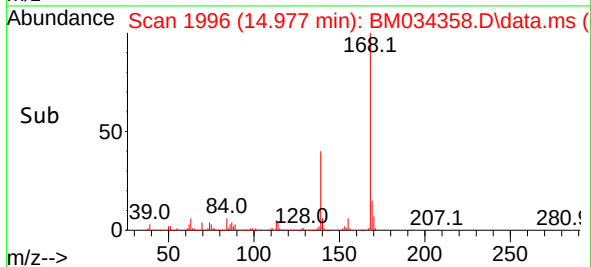
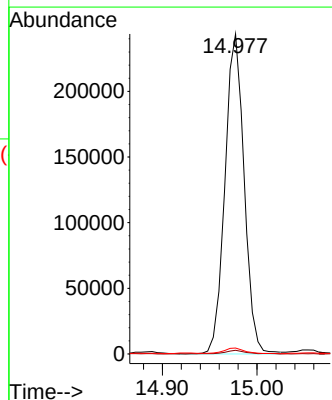
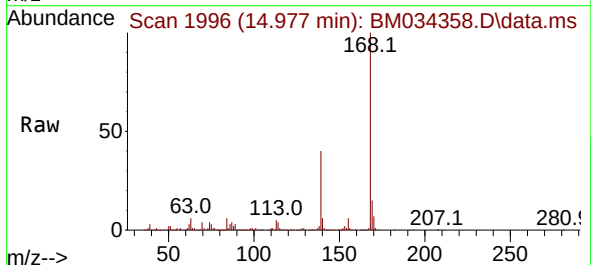
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

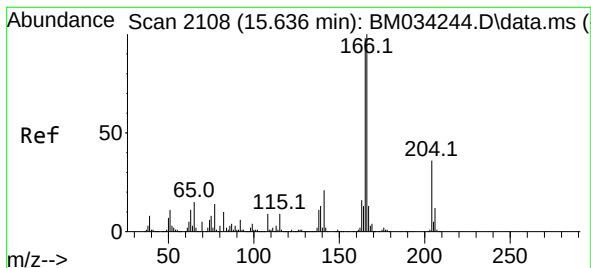
Tgt Ion:168 Resp: 880918
Ion Ratio Lower Upper
168 100
139 39.8 32.4 48.6
169 14.6 10.8 16.2



#56
4-Nitrophenol
Concen: 67.878 ng
RT: 14.977 min Scan# 1996
Delta R.T. 0.188 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:139 Resp: 343805
Ion Ratio Lower Upper
139 100
109 1.2 66.3 106.3#
65 1.9 85.5 125.5#





#58

Fluorene

Concen: 48.378 ng

RT: 15.624 min Scan# 2106

Delta R.T. -0.000 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

Instrument :

BNA_M

ClientSampleId :

C-13-12-13

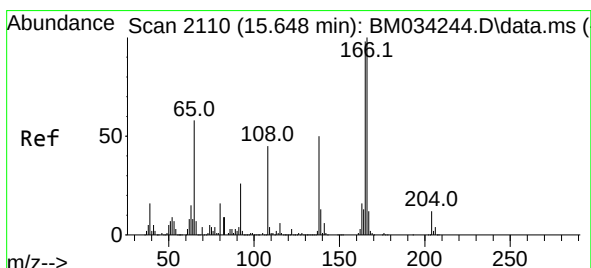
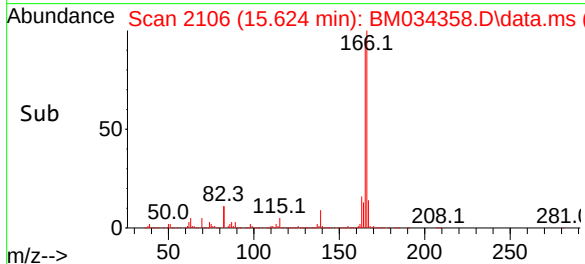
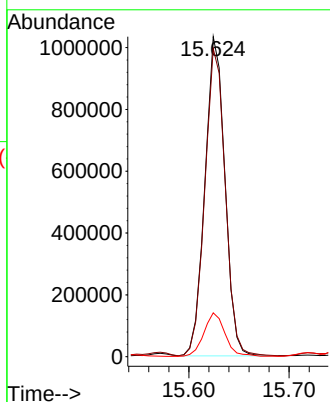
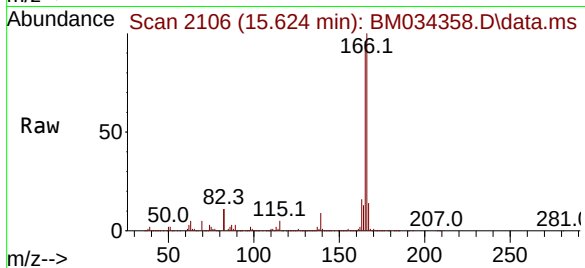
Tgt Ion:166 Resp: 1434582

Ion Ratio Lower Upper

166 100

165 96.3 78.0 117.0

167 13.7 10.5 15.7



#62

4-Nitroaniline

Concen: 3.062 ng

RT: 15.624 min Scan# 2106

Delta R.T. -0.018 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

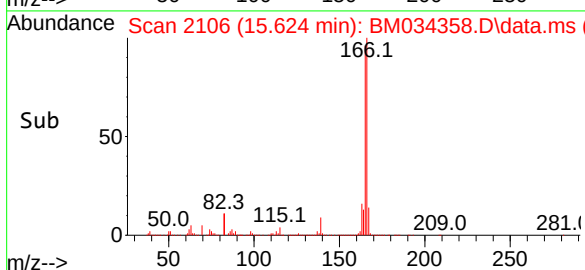
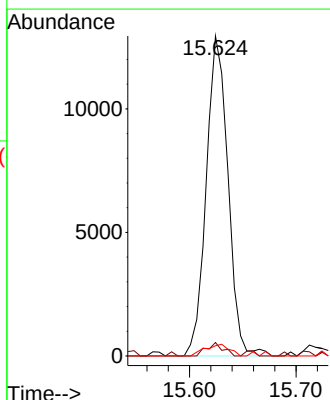
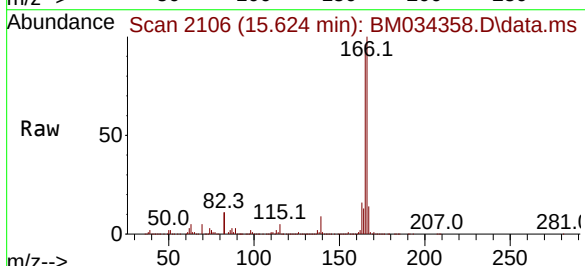
Tgt Ion:138 Resp: 18404

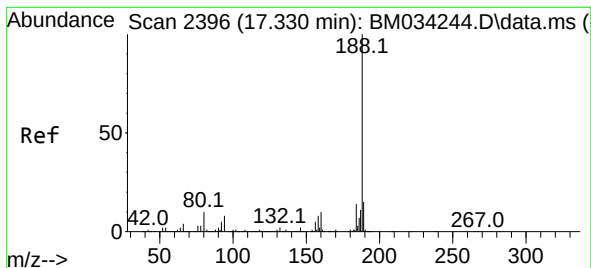
Ion Ratio Lower Upper

138 100

92 4.2 32.6 72.6#

108 3.2 69.8 109.8#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.324 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

Instrument :

BNA_M

ClientSampleId :

C-13-12-13

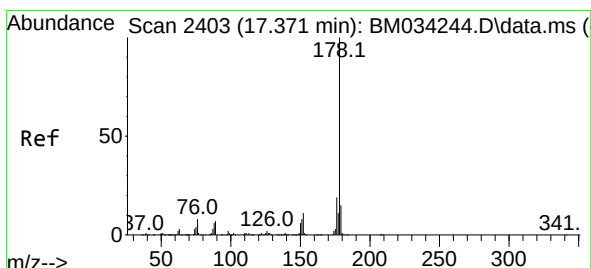
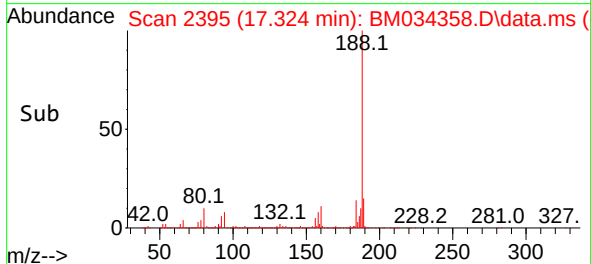
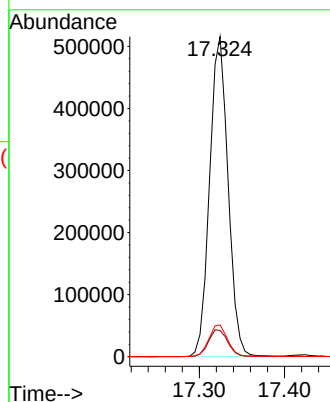
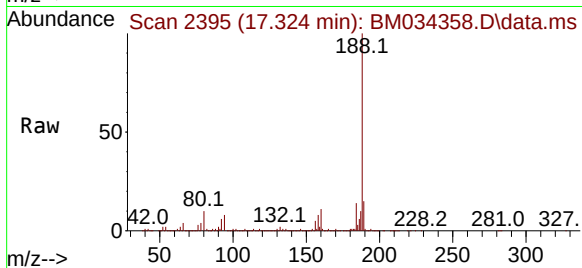
Tgt Ion:188 Resp: 776291

Ion Ratio Lower Upper

188 100

94 8.2 6.6 9.8

80 10.0 7.8 11.8



#71

Phenanthrene

Concen: 226.360 ng

RT: 17.371 min Scan# 2403

Delta R.T. 0.006 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

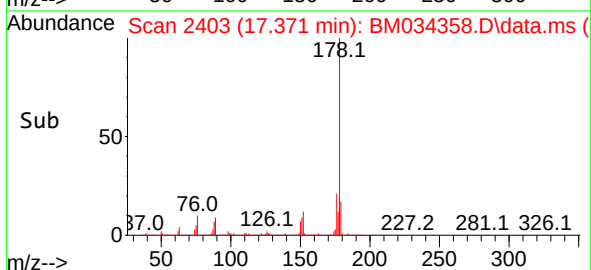
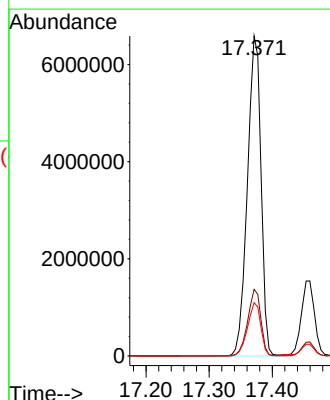
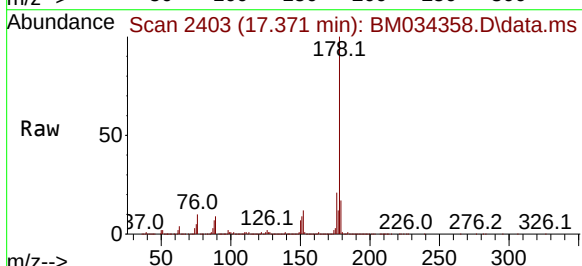
Tgt Ion:178 Resp: 9840754

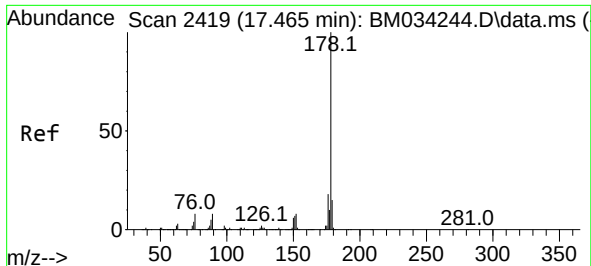
Ion Ratio Lower Upper

178 100

176 20.8 15.1 22.7

179 16.6 12.2 18.4

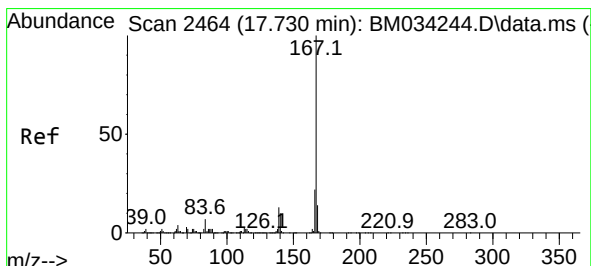
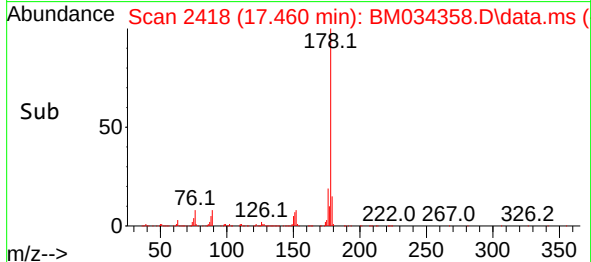
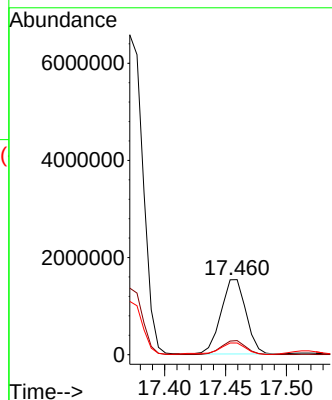
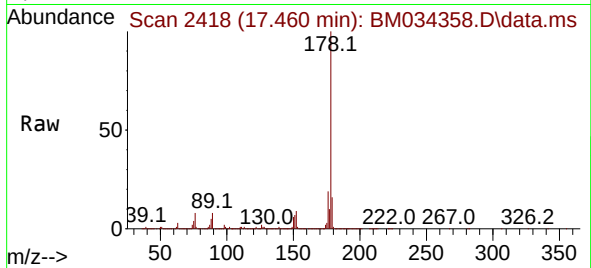




#72
 Anthracene
 Concen: 51.842 ng
 RT: 17.460 min Scan# 2419
 Delta R.T. 0.006 min
 Lab File: BM034358.D
 Acq: 24 Mar 2022 02:46

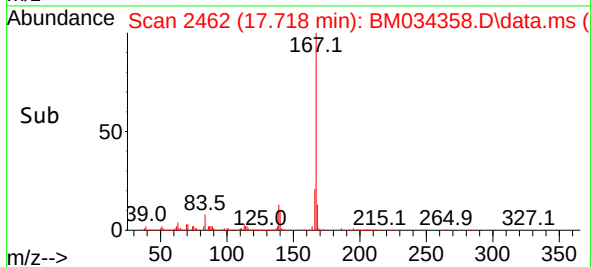
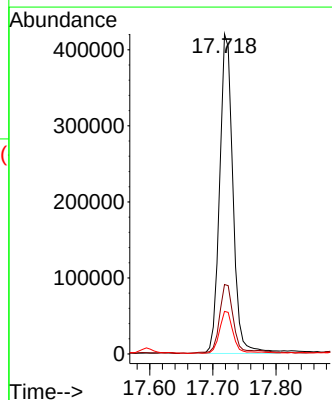
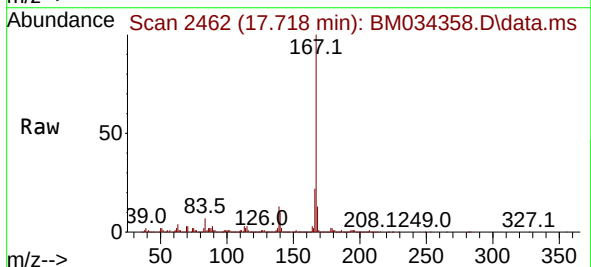
Instrument :
 BNA_M
 ClientSampleId :
 C-13-12-13

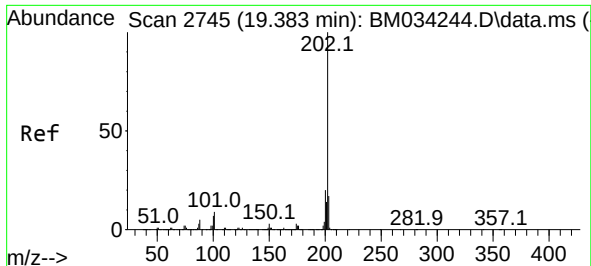
Tgt Ion:178 Resp: 2193689
 Ion Ratio Lower Upper
 178 100
 176 18.7 14.6 22.0
 179 15.5 12.2 18.2



#73
 Carbazole
 Concen: 15.577 ng
 RT: 17.718 min Scan# 2462
 Delta R.T. -0.006 min
 Lab File: BM034358.D
 Acq: 24 Mar 2022 02:46

Tgt Ion:167 Resp: 614734
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.4 26.2
 139 13.3 10.4 15.6

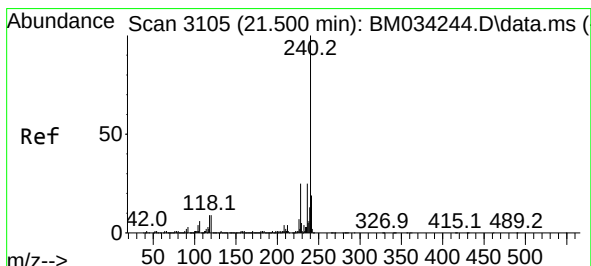
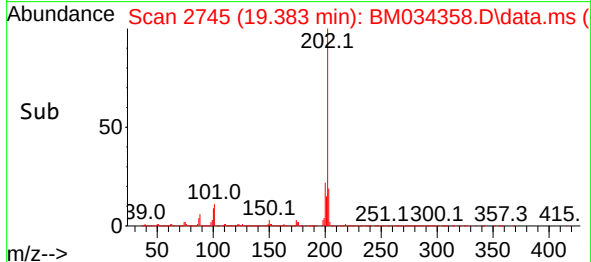
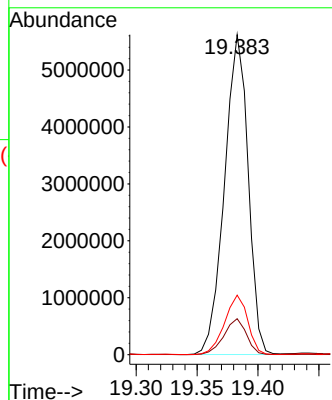
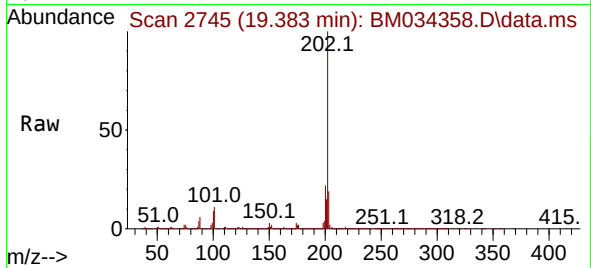




#75
Fluoranthene
Concen: 155.485 ng
RT: 19.383 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

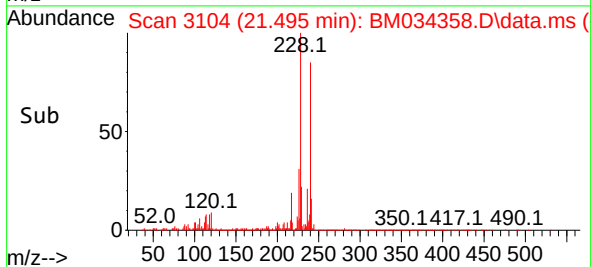
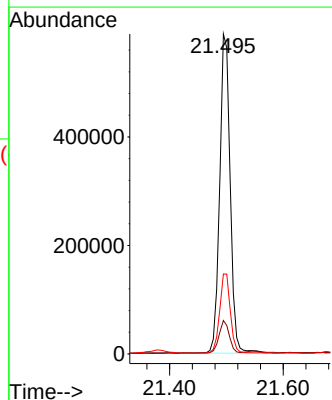
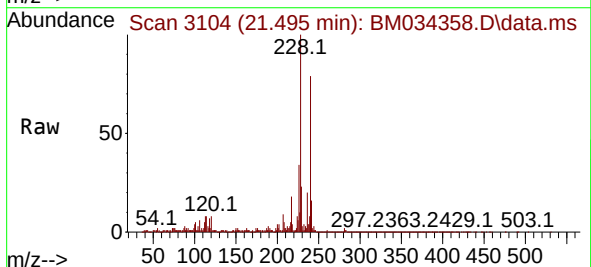
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

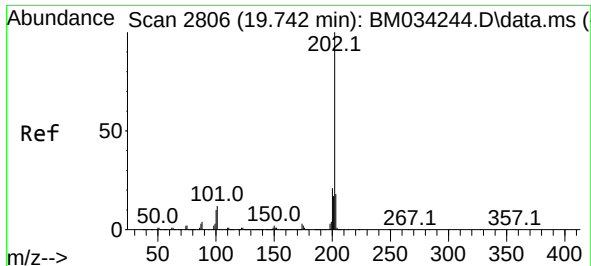
Tgt Ion:202 Resp: 7577635
Ion Ratio Lower Upper
202 100
101 11.3 0.0 29.4
203 18.6 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 3104
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:240 Resp: 755584
Ion Ratio Lower Upper
240 100
120 10.4 7.3 10.9
236 25.0 20.2 30.2

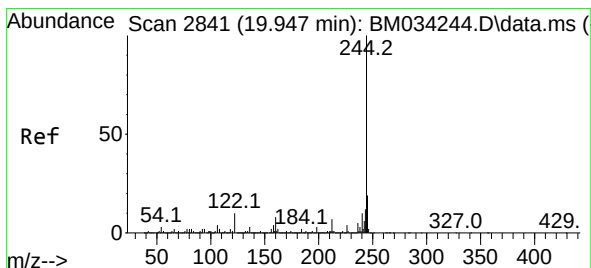
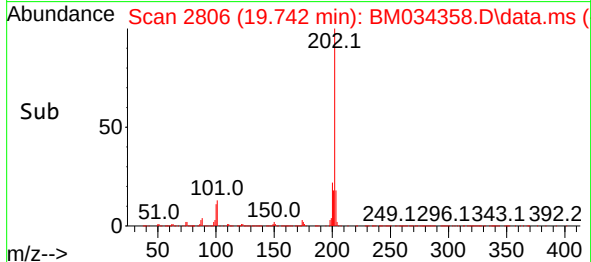
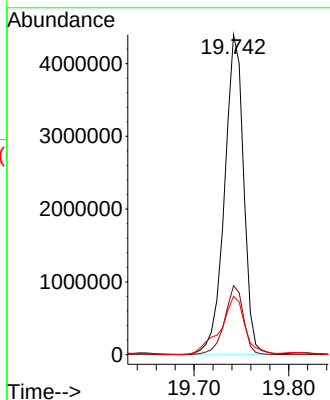
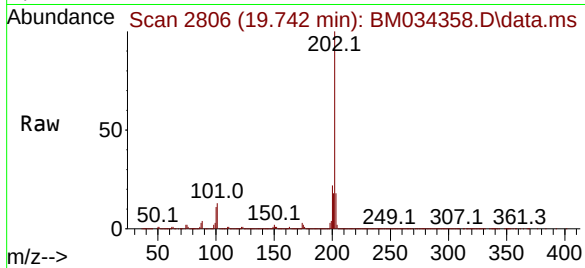




#78
Pyrene
Concen: 115.659 ng
RT: 19.742 min Scan# 2806
Delta R.T. 0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

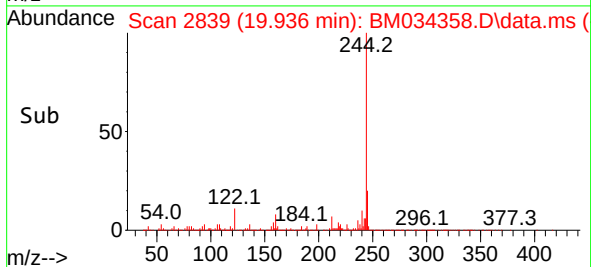
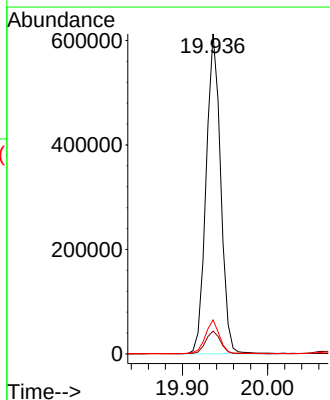
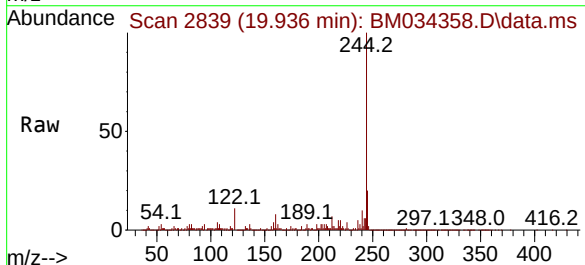
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

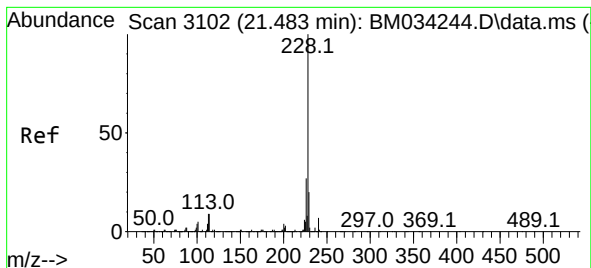
Tgt Ion:202 Resp: 6157110
Ion Ratio Lower Upper
202 100
200 21.6 16.6 24.8
203 18.3 14.1 21.1



#79
Terphenyl-d14
Concen: 16.677 ng
RT: 19.936 min Scan# 2839
Delta R.T. 0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:244 Resp: 725169
Ion Ratio Lower Upper
244 100
212 7.2 5.9 8.9
122 10.6 7.8 11.8





#81

Benzo(a)anthracene

Concen: 60.576 ng

RT: 21.483 min Scan# 3102

Delta R.T. 0.006 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

Instrument :

BNA_M

ClientSampleId :

C-13-12-13

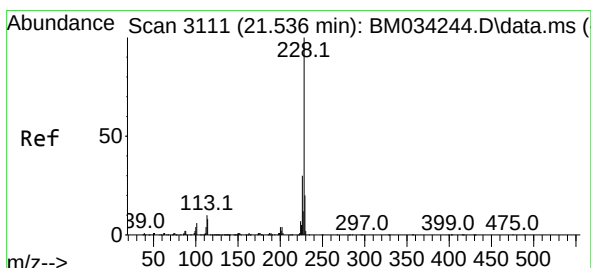
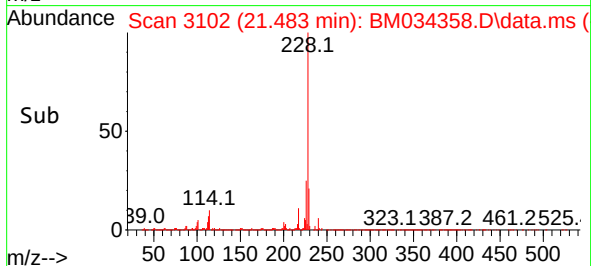
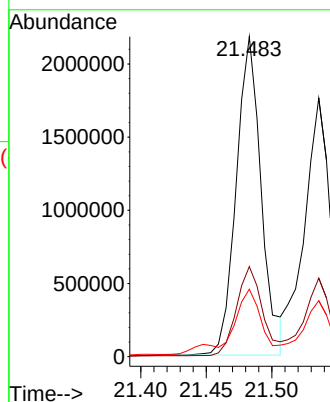
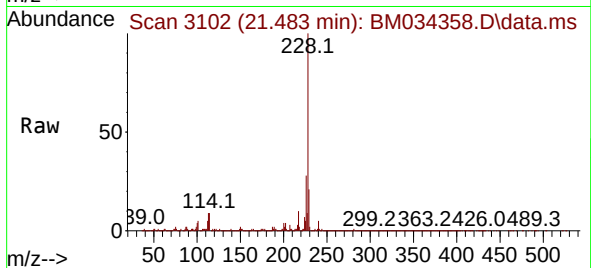
Tgt Ion:228 Resp: 2888851

Ion Ratio Lower Upper

228 100

226 28.1 21.6 32.4

229 21.1 15.8 23.6



#83

Chrysene

Concen: 49.346 ng

RT: 21.536 min Scan# 3111

Delta R.T. -0.000 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

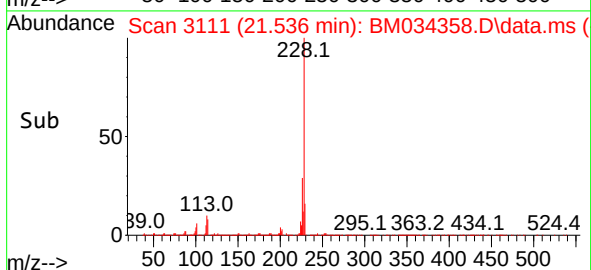
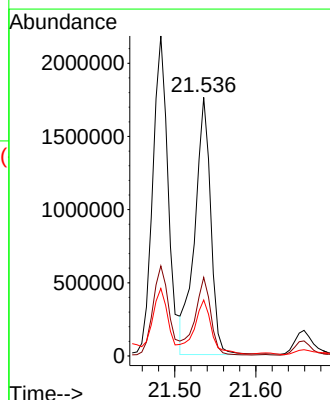
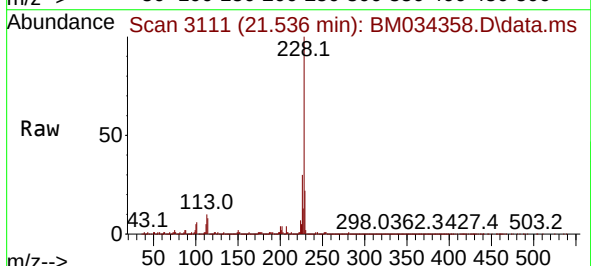
Tgt Ion:228 Resp: 2403144

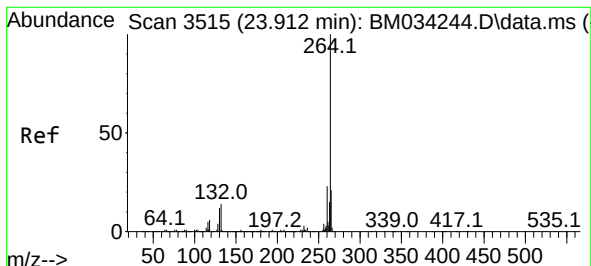
Ion Ratio Lower Upper

228 100

226 30.4 23.8 35.6

229 21.6 15.6 23.4





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.912 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

Instrument :

BNA_M

ClientSampleId :

C-13-12-13

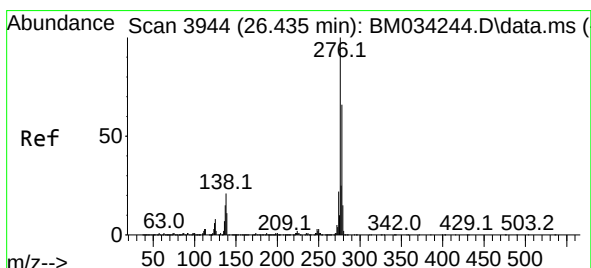
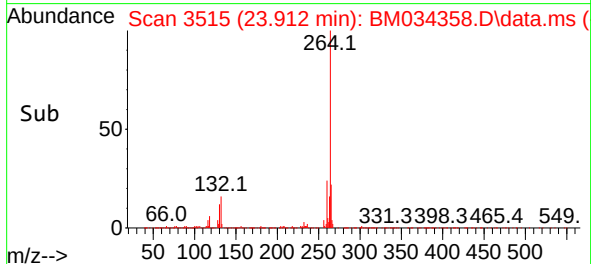
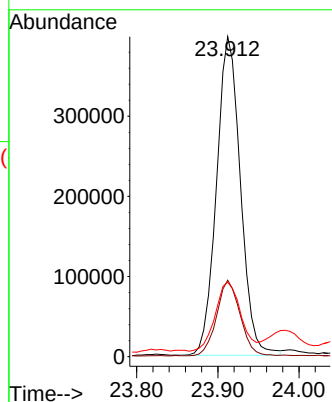
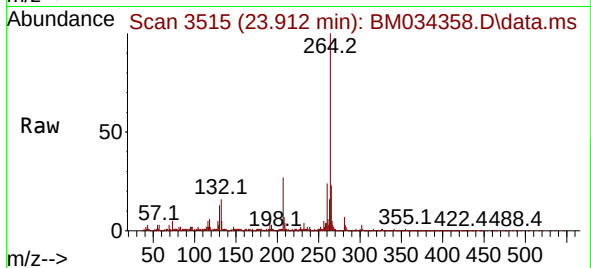
Tgt Ion:264 Resp: 815318

Ion Ratio Lower Upper

264 100

260 23.9 18.6 28.0

265 23.3 17.6 26.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 19.063 ng

RT: 26.430 min Scan# 3943

Delta R.T. 0.006 min

Lab File: BM034358.D

Acq: 24 Mar 2022 02:46

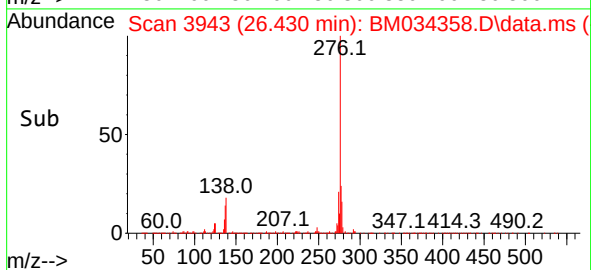
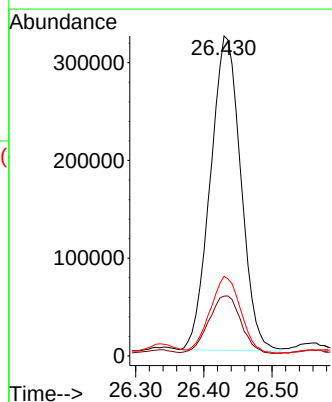
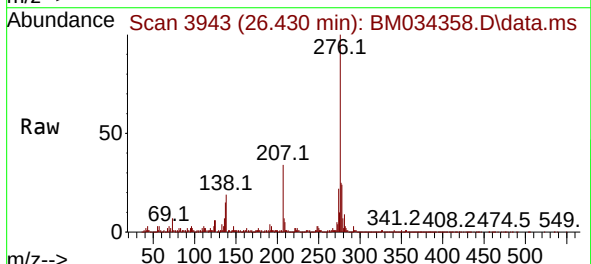
Tgt Ion:276 Resp: 999840

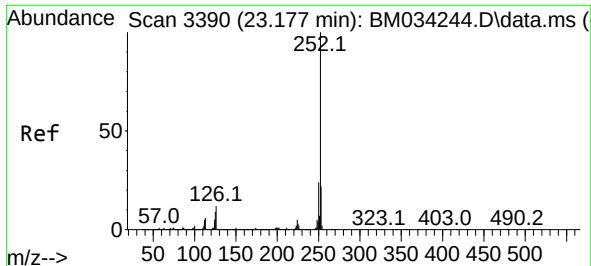
Ion Ratio Lower Upper

276 100

138 19.5 16.6 25.0

277 24.6 19.8 29.6

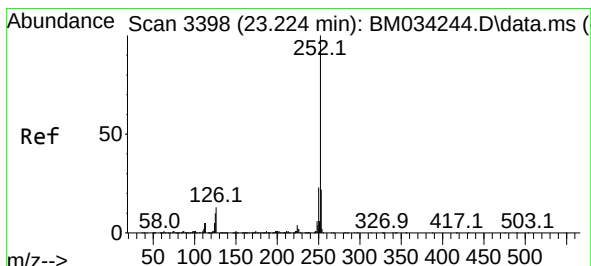
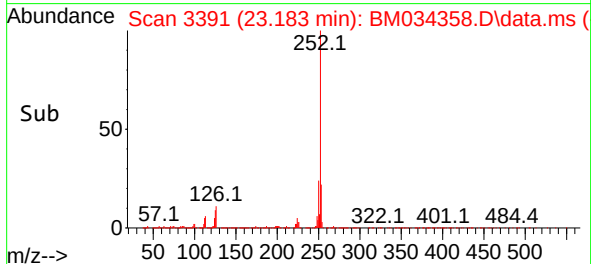
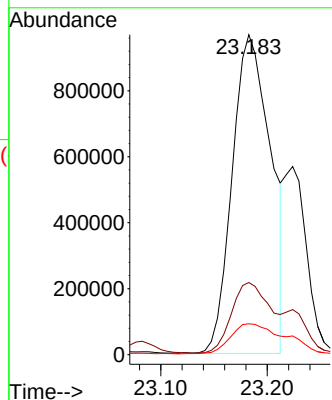
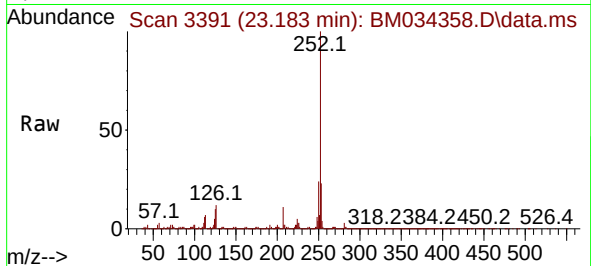




#88
Benzo(b)fluoranthene
Concen: 49.845 ng
RT: 23.183 min Scan# 3391
Delta R.T. 0.012 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

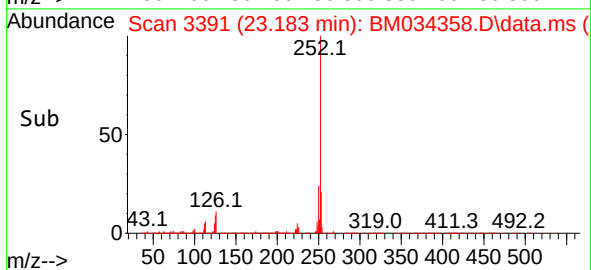
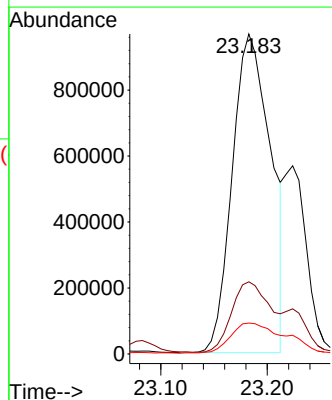
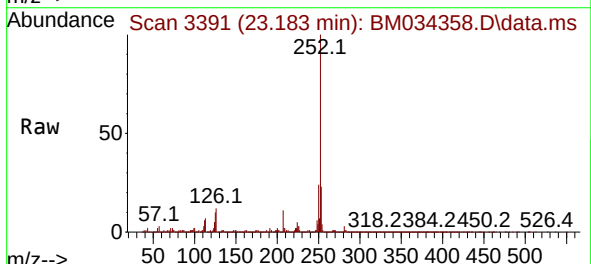
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

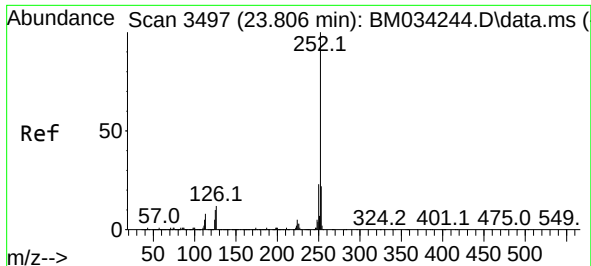
Tgt Ion:252 Resp: 2430139
Ion Ratio Lower Upper
252 100
253 22.5 17.8 26.8
125 9.7 7.2 10.8



#89
Benzo(k)fluoranthene
Concen: 47.054 ng
RT: 23.183 min Scan# 3391
Delta R.T. -0.041 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:252 Resp: 2430139
Ion Ratio Lower Upper
252 100
253 22.5 17.6 26.4
125 9.7 7.5 11.3

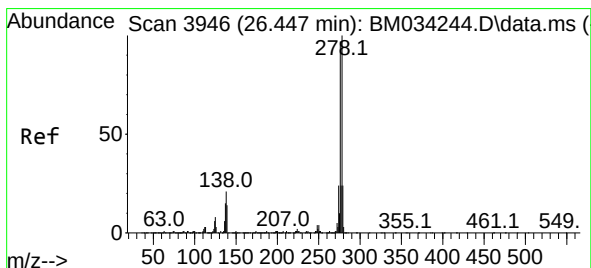
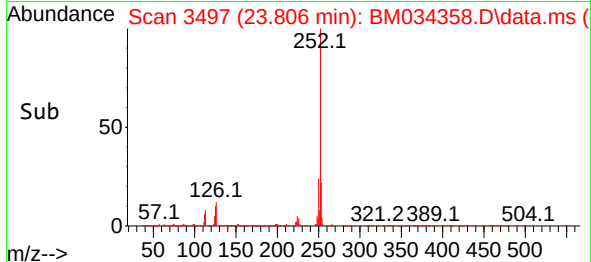
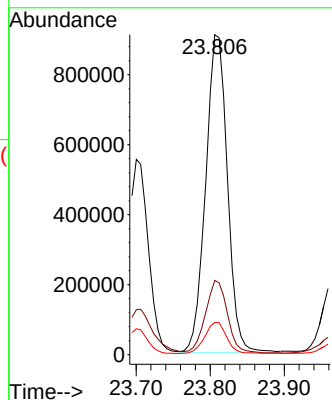
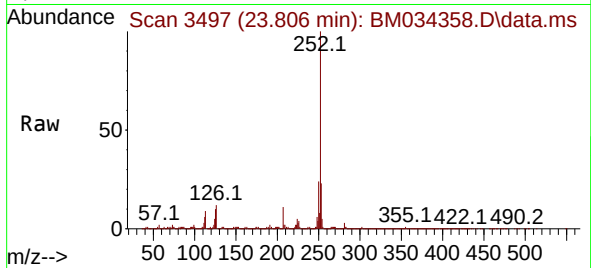




#90
Benzo(a)pyrene
Concen: 44.887 ng
RT: 23.806 min Scan# 3497
Delta R.T. 0.006 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

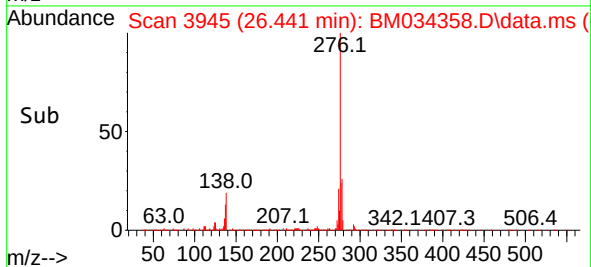
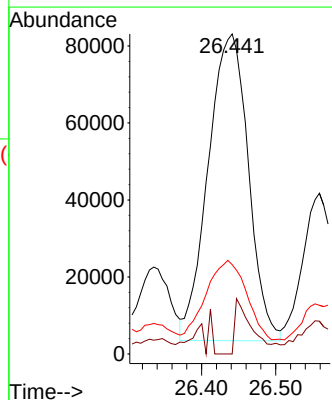
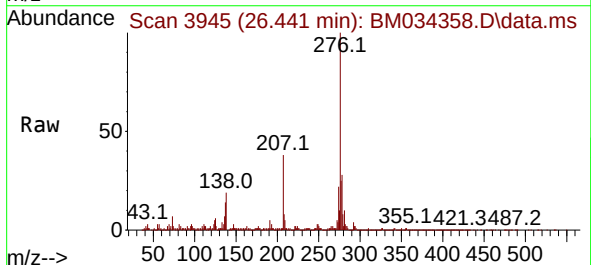
Instrument :
BNA_M
ClientSampleId :
C-13-12-13

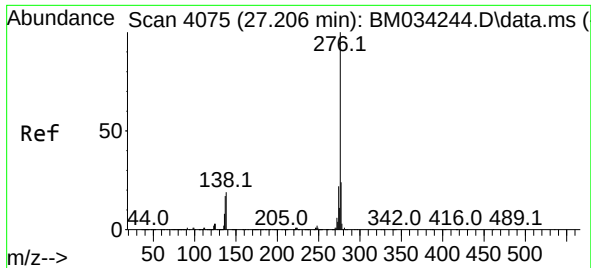
Tgt Ion:252 Resp: 1855226
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 10.1 7.8 11.6



#91
Dibenzo(a,h)anthracene
Concen: 7.063 ng
RT: 26.441 min Scan# 3945
Delta R.T. -0.000 min
Lab File: BM034358.D
Acq: 24 Mar 2022 02:46

Tgt Ion:278 Resp: 300350
Ion Ratio Lower Upper
278 100
139 0.0 11.2 16.8#
279 27.9 19.2 28.8





#92
 Benzo(g,h,i)perylene
 Concen: 20.811 ng
 RT: 27.206 min Scan# 4075
 Delta R.T. 0.006 min
 Lab File: BM034358.D
 Acq: 24 Mar 2022 02:46

Instrument :
 BNA_M
 ClientSampleId :
 C-13-12-13

Tgt Ion:276 Resp: 916057
 Ion Ratio Lower Upper
 276 100
 277 24.7 19.0 28.4
 138 19.3 15.6 23.4

