

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032222\
 Data File : BM034322.D
 Acq On : 22 Mar 2022 22:28
 Operator : CG/JU
 Sample : N1958-14
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C-14-13-14

Quant Time: Mar 23 05:07:46 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031522.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 16 02:38:26 2022
 Response via : Initial Calibration

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

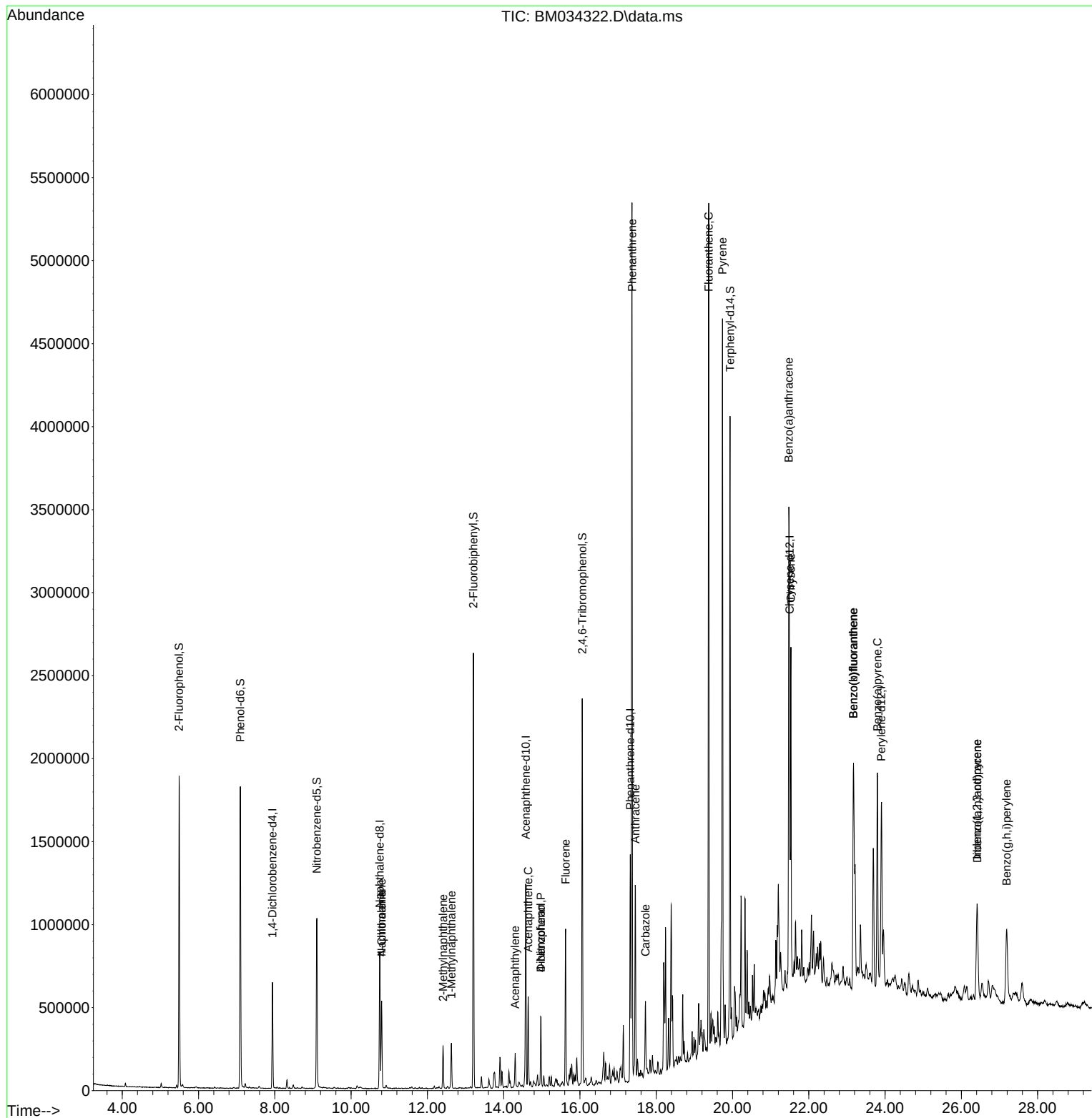
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.937	152	169823	20.000	ng	-0.01
21) Naphthalene-d8	10.748	136	670155	20.000	ng	-0.02
39) Acenaphthene-d10	14.578	164	403136	20.000	ng	-0.01
64) Phenanthrene-d10	17.319	188	789173	20.000	ng	-0.01
76) Chrysene-d12	21.495	240	772686	20.000	ng	0.00
86) Perylene-d12	23.900	264	858531	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.490	112	761721	80.466	ng	-0.01
7) Phenol-d6	7.096	99	976569	72.052	ng	-0.01
23) Nitrobenzene-d5	9.101	82	616128	44.762	ng	-0.01
42) 2,4,6-Tribromophenol	16.060	330	366084	67.372	ng	-0.01
45) 2-Fluorobiphenyl	13.207	172	1264761	42.871	ng	-0.01
79) Terphenyl-d14	19.936	244	1687045	37.938	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.801	128	414260	11.865	ng	100
33) 4-Chloroaniline	10.801	127	54020	3.922	ng	# 32
37) 2-Methylnaphthalene	12.413	142	120549	4.839	ng	99
38) 1-Methylnaphthalene	12.631	142	120158	4.931	ng	98
49) Acenaphthylene	14.301	152	106480	2.895	ng	# 96
52) Acenaphthene	14.642	154	186139	7.515	ng	97
55) Dibenzofuran	14.972	168	234341	6.348	ng	97
56) 4-Nitrophenol	14.972	139	89985	17.580	ng	# 3
58) Fluorene	15.625	166	396311	13.224	ng	99
71) Phenanthrene	17.366	178	3113724	70.454	ng	100
72) Anthracene	17.454	178	717771	16.686	ng	99
73) Carbazole	17.719	167	281676	7.021	ng	99
75) Fluoranthene	19.377	202	2936215	59.265	ng	99
78) Pyrene	19.736	202	2630962	48.328	ng	100
81) Benzo(a)anthracene	21.477	228	1241421	25.455	ng	98
83) Chrysene	21.530	228	1100362	22.095	ng	98
87) Indeno(1,2,3-cd)pyrene	26.412	276	607063	10.992	ng	98
88) Benzo(b)fluoranthene	23.171	252	1280619	24.945	ng	97
89) Benzo(k)fluoranthene	23.171	252	1280619	23.548	ng	97
90) Benzo(a)pyrene	23.800	252	998371	22.940	ng	99
91) Dibenzo(a,h)anthracene	26.418	278	165688	3.700	ng	92
92) Benzo(g,h,i)perylene	27.188	276	598520	12.913	ng	99

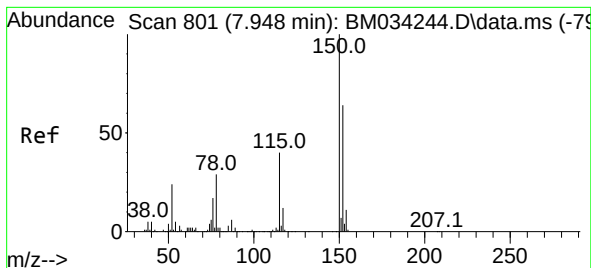
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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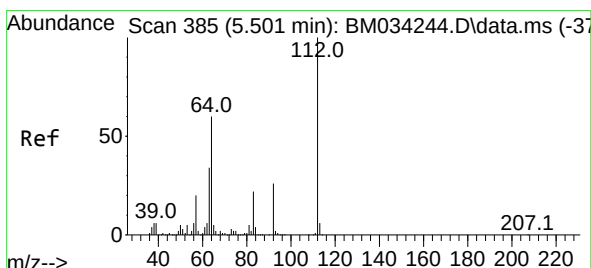
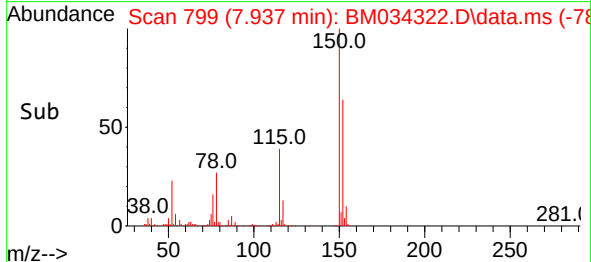
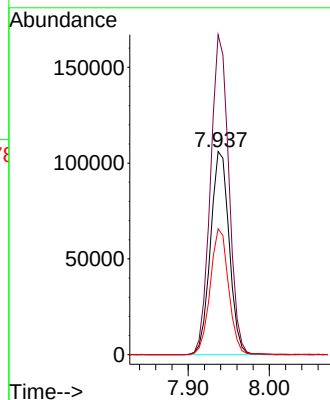
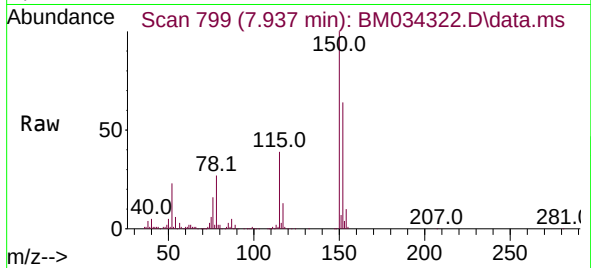




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.937 min Scan# 79
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

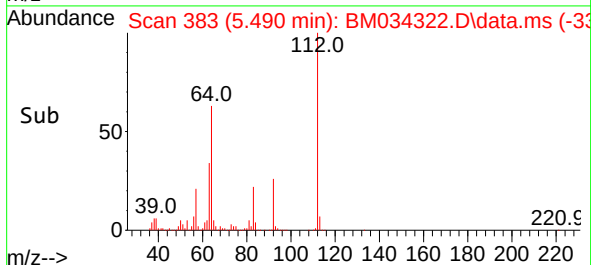
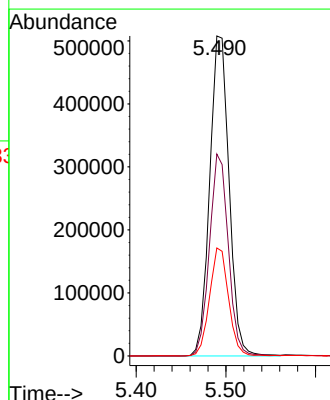
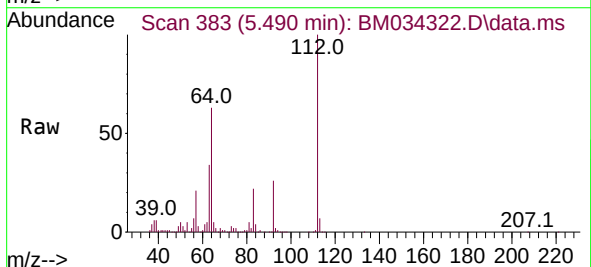
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

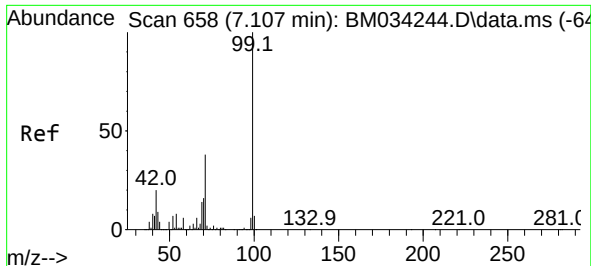
Tgt Ion:152 Resp: 169823
Ion Ratio Lower Upper
152 100
150 157.5 125.4 188.2
115 62.0 50.1 75.1



#5
2-Fluorophenol
Concen: 80.466 ng
RT: 5.490 min Scan# 383
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:112 Resp: 761721
Ion Ratio Lower Upper
112 100
64 63.1 47.9 71.9
63 33.7 27.1 40.7

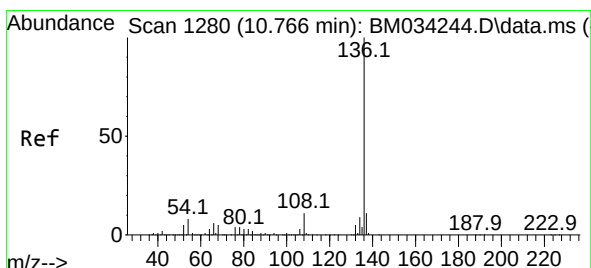
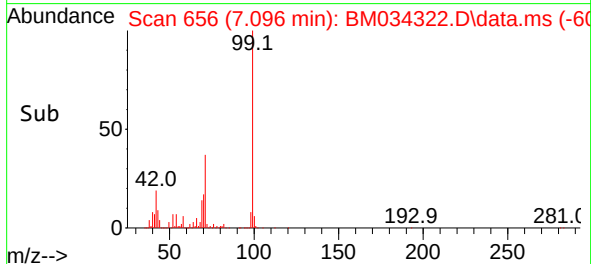
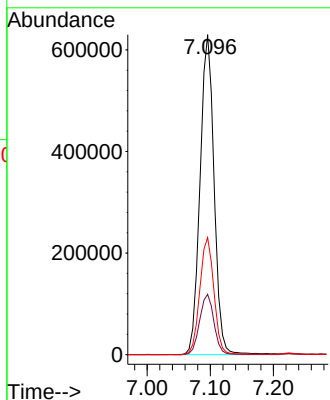
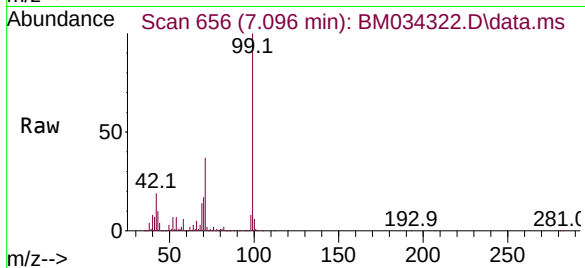




#7
Phenol-d6
Concen: 72.052 ng
RT: 7.096 min Scan# 61
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

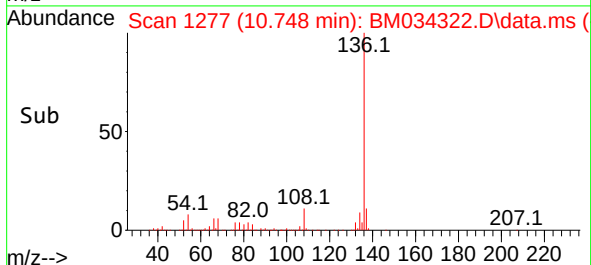
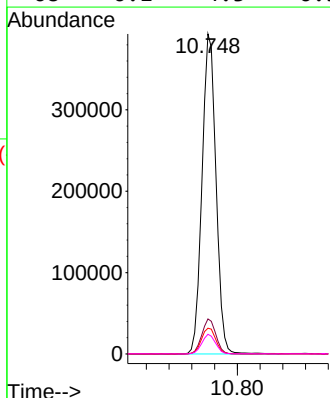
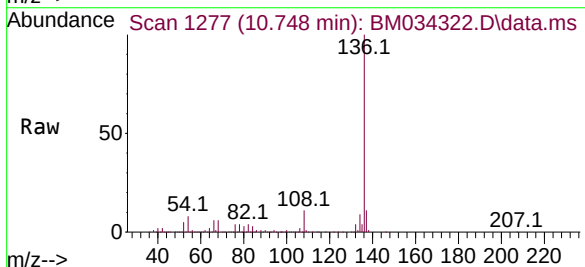
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

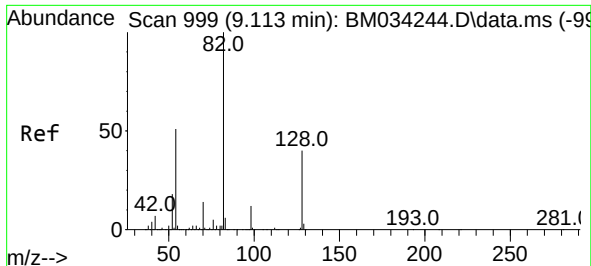
Tgt Ion:	99	Resp:	976569
Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.6	23.4
71	36.6	30.6	46.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.748 min Scan# 1277
Delta R.T. -0.017 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:	136	Resp:	670155
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.1	6.2	9.4
68	6.1	4.3	6.5

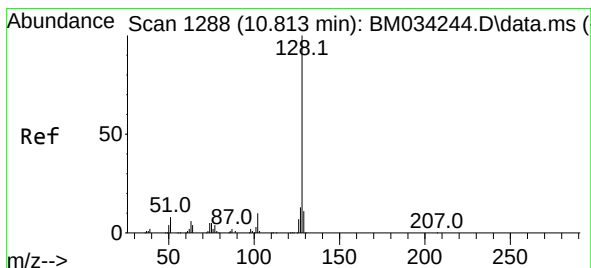
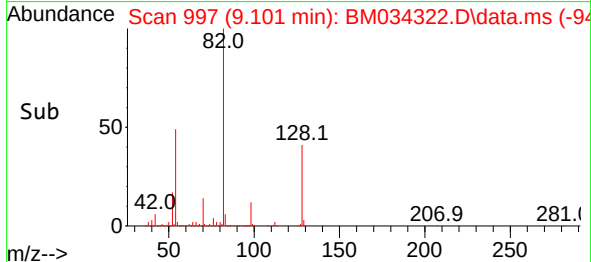
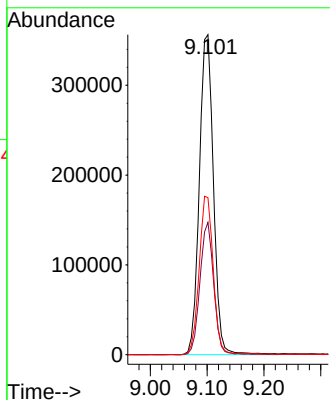
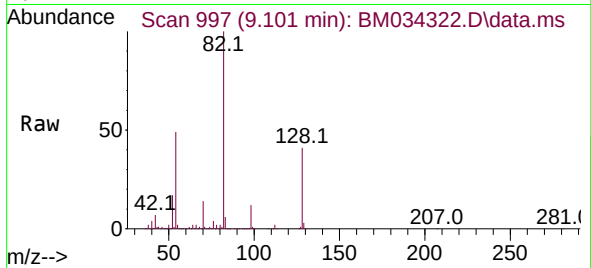




#23
Nitrobenzene-d5
Concen: 44.762 ng
RT: 9.101 min Scan# 999
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

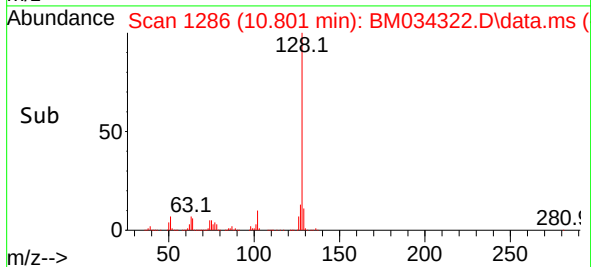
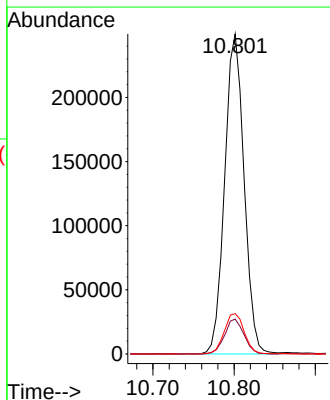
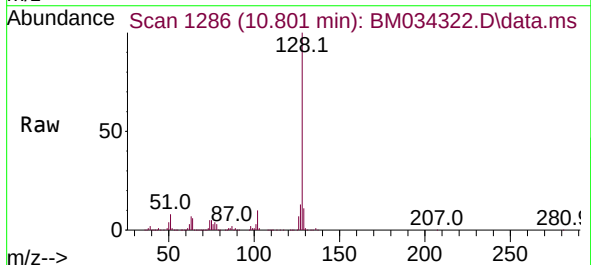
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

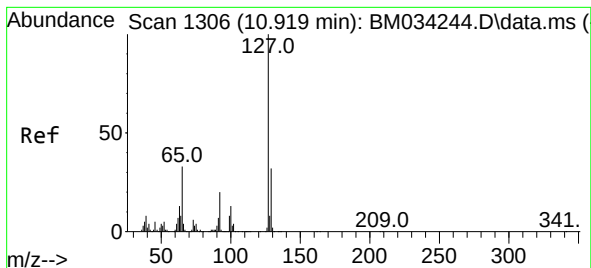
Tgt Ion: 82 Resp: 616128
Ion Ratio Lower Upper
82 100
128 41.3 31.9 47.9
54 49.0 40.6 61.0



#31
Naphthalene
Concen: 11.865 ng
RT: 10.801 min Scan# 1286
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion: 128 Resp: 414260
Ion Ratio Lower Upper
128 100
129 10.9 8.8 13.2
127 12.6 10.2 15.4

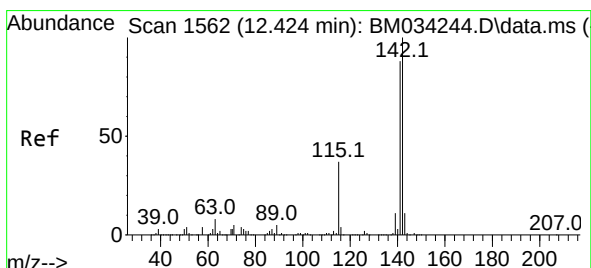
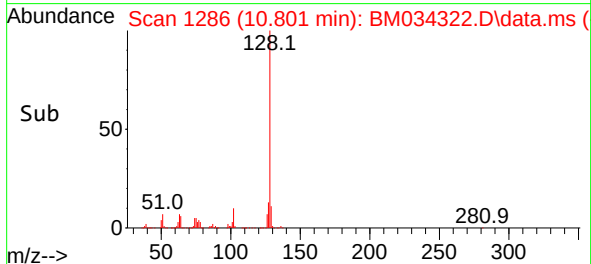
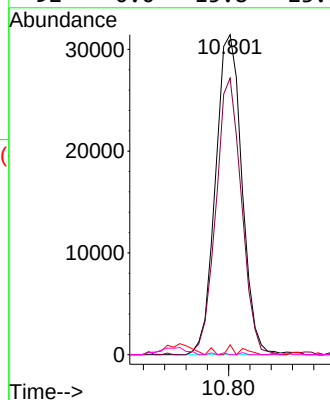
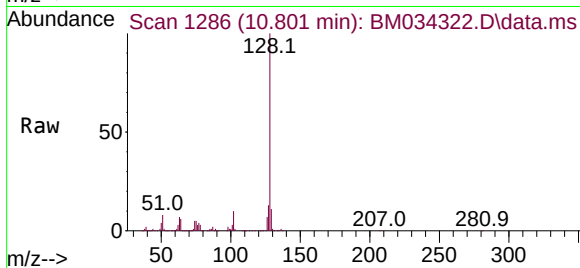




#33
4-Chloroaniline
Concen: 3.922 ng
RT: 10.801 min Scan# 11
Delta R.T. -0.117 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

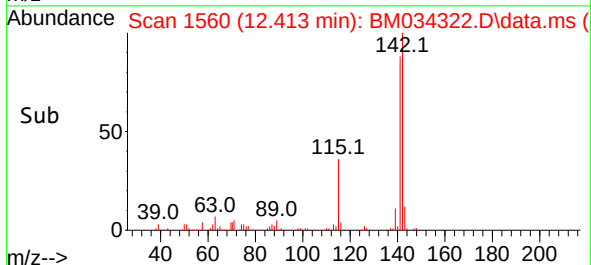
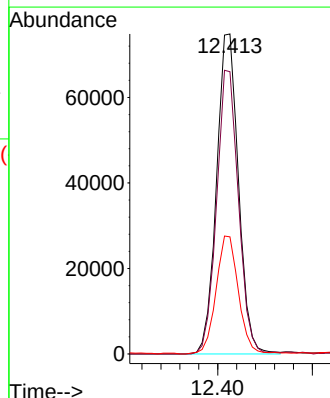
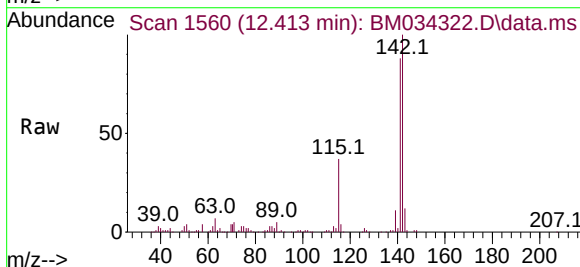
Instrument :
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ClientSampleId :
C-14-13-14

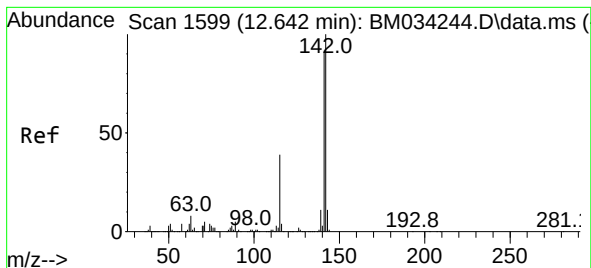
Tgt Ion:127	Resp:	54020
Ion Ratio	Lower	Upper
127	100	
129	86.4	25.4 38.2#
65	3.1	26.2 39.2#
92	0.0	15.8 23.6#



#37
2-Methylnaphthalene
Concen: 4.839 ng
RT: 12.413 min Scan# 1560
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:142	Resp:	120549
Ion Ratio	Lower	Upper
142	100	
141	88.2	70.1 105.1
115	36.6	29.9 44.9





#38

1-Methylnaphthalene

Concen: 4.931 ng

RT: 12.631 min Scan# 1

Delta R.T. -0.011 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

Instrument :

BNA_M

ClientSampleId :

C-14-13-14

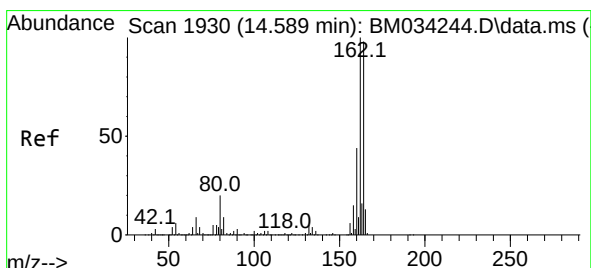
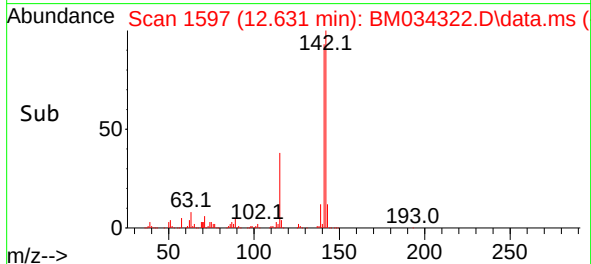
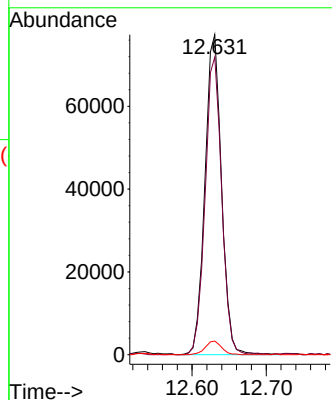
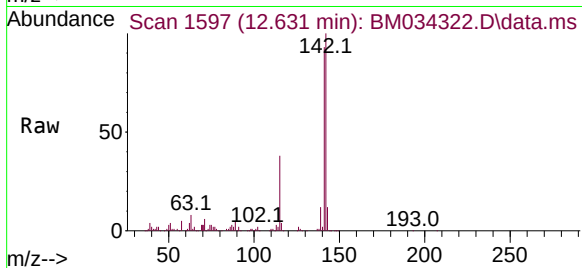
Tgt Ion:142 Resp: 120158

Ion Ratio Lower Upper

142 100

141 93.0 73.0 109.6

116 4.3 3.2 4.8



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.578 min Scan# 1928

Delta R.T. -0.011 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

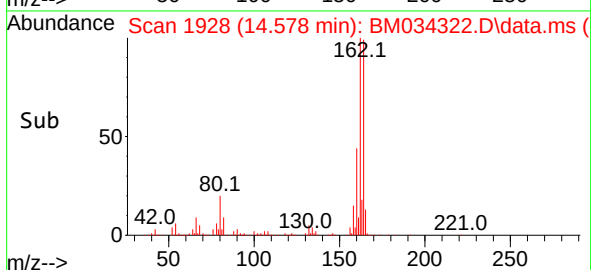
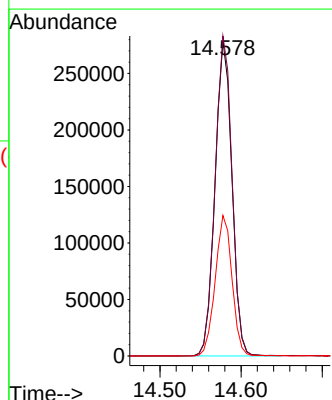
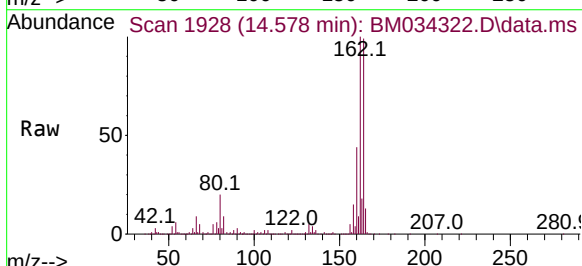
Tgt Ion:164 Resp: 403136

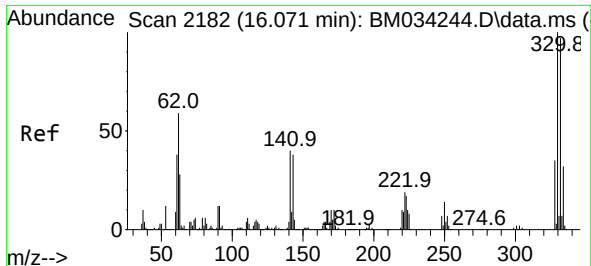
Ion Ratio Lower Upper

164 100

162 101.5 81.6 122.4

160 44.6 35.6 53.4

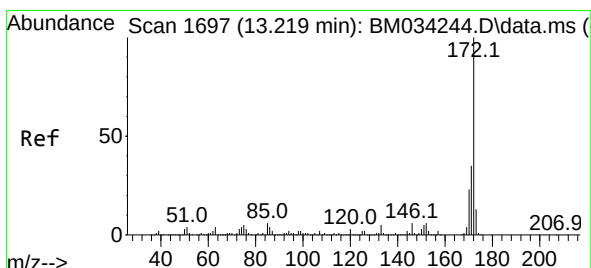
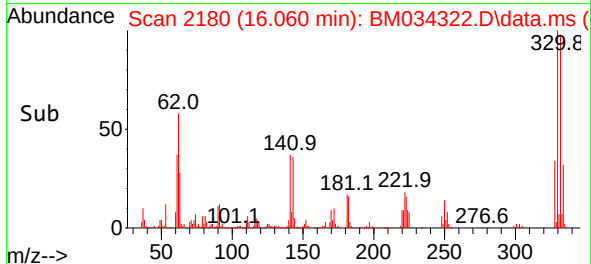
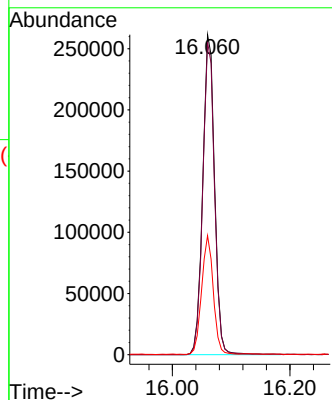
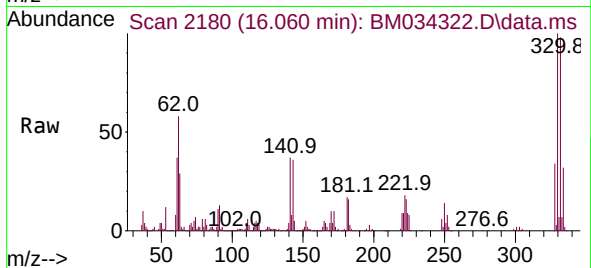




#42
2,4,6-Tribromophenol
Concen: 67.372 ng
RT: 16.060 min Scan# 2182
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

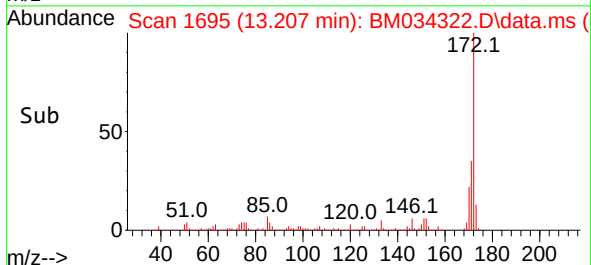
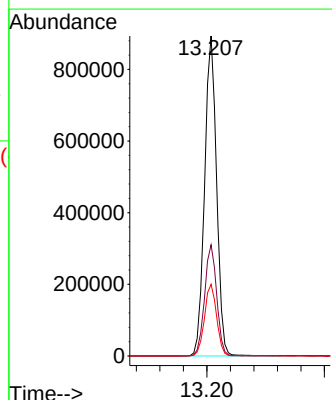
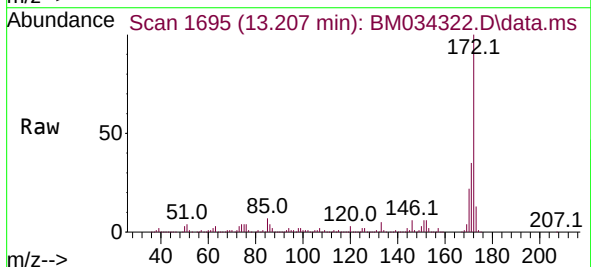
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C-14-13-14

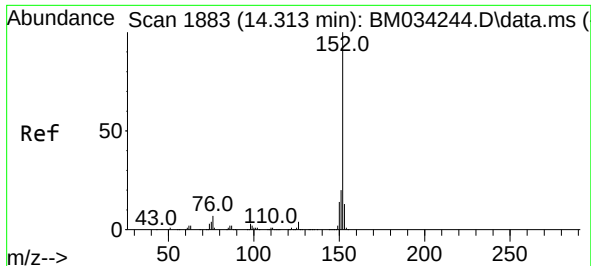
Tgt Ion:330 Resp: 366084
Ion Ratio Lower Upper
330 100
332 97.1 78.2 117.4
141 36.3 30.6 45.8



#45
2-Fluorobiphenyl
Concen: 42.871 ng
RT: 13.207 min Scan# 1695
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:172 Resp: 1264761
Ion Ratio Lower Upper
172 100
171 34.8 28.0 42.0
170 22.4 18.6 28.0

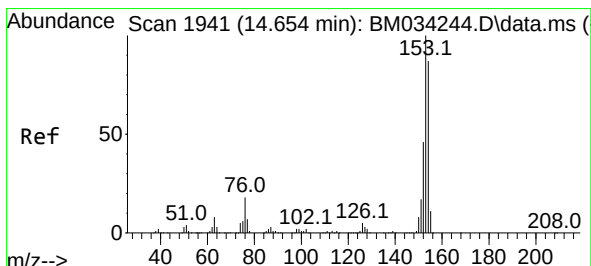
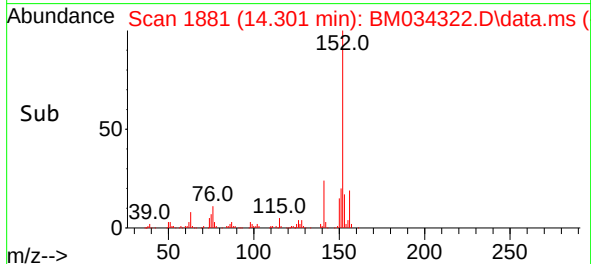
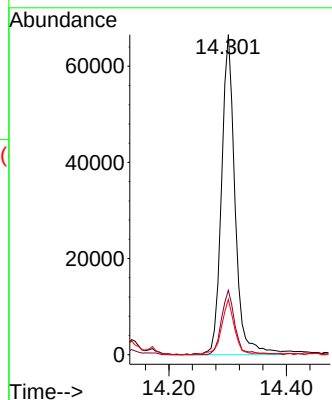
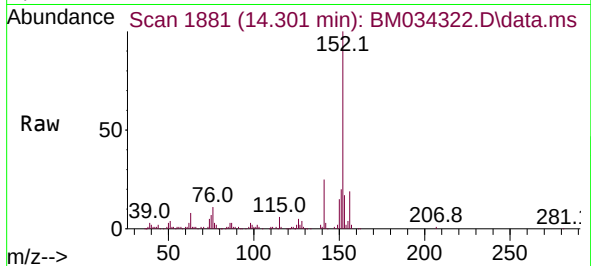




#49
Acenaphthylene
Concen: 2.895 ng
RT: 14.301 min Scan# 1881
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

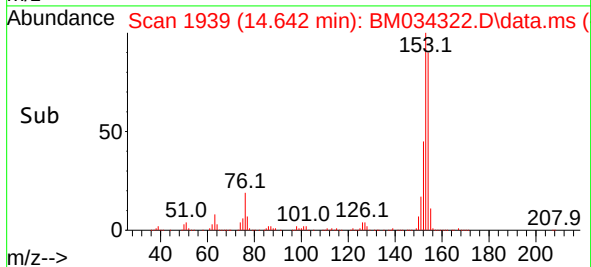
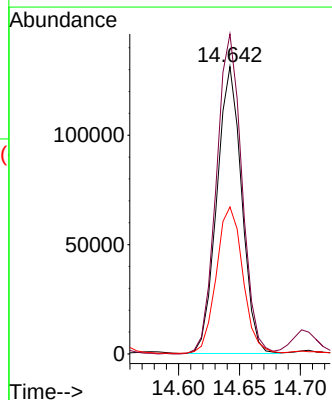
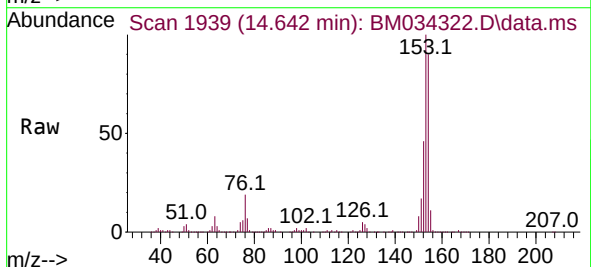
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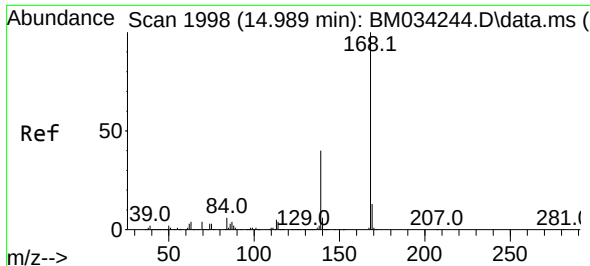
Tgt Ion:152 Resp: 106480
Ion Ratio Lower Upper
152 100
151 20.2 15.9 23.9
153 17.3 10.6 16.0#



#52
Acenaphthene
Concen: 7.515 ng
RT: 14.642 min Scan# 1939
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:154 Resp: 186139
Ion Ratio Lower Upper
154 100
153 111.3 91.8 137.8
152 51.2 42.6 64.0

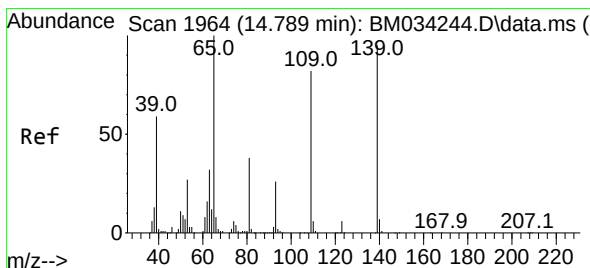
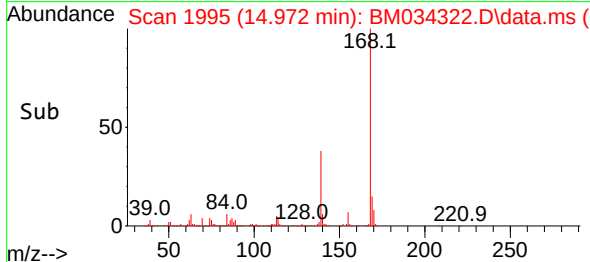
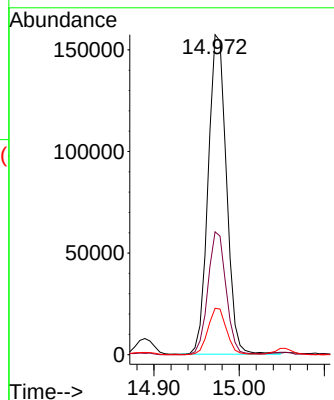
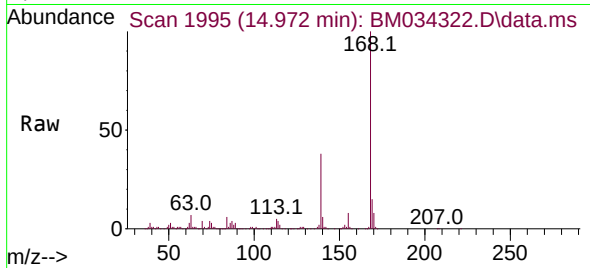




#55
Dibenzenofuran
Concen: 6.348 ng
RT: 14.972 min Scan# 1995
Delta R.T. -0.017 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

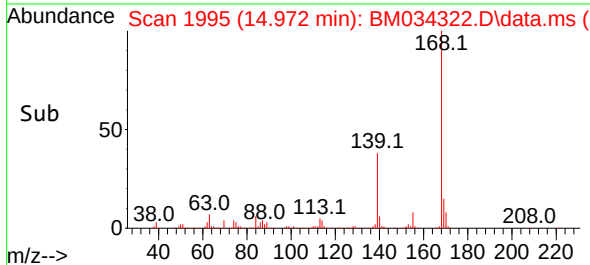
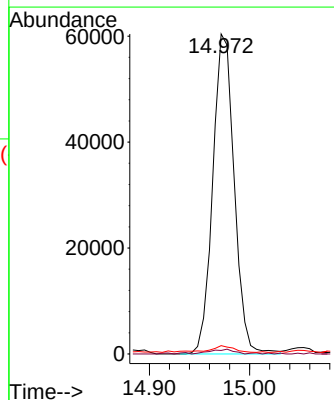
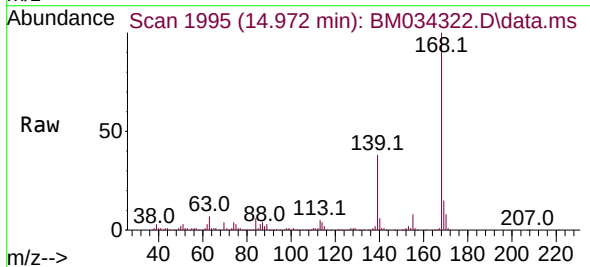
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

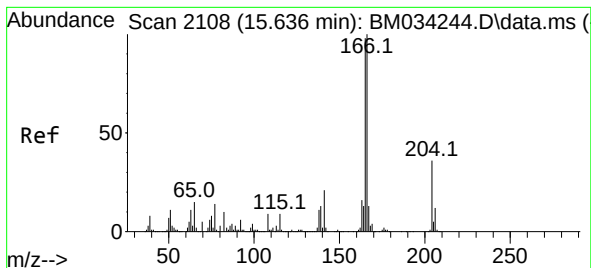
Tgt Ion:168 Resp: 234341
Ion Ratio Lower Upper
168 100
139 38.4 32.4 48.6
169 14.5 10.8 16.2



#56
4-Nitrophenol
Concen: 17.580 ng
RT: 14.972 min Scan# 1995
Delta R.T. 0.183 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:139 Resp: 89985
Ion Ratio Lower Upper
139 100
109 1.1 66.3 106.3#
65 2.6 85.5 125.5#





#58

Fluorene

Concen: 13.224 ng

RT: 15.625 min Scan# 2106

Delta R.T. -0.011 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

Instrument :

BNA_M

ClientSampleId :

C-14-13-14

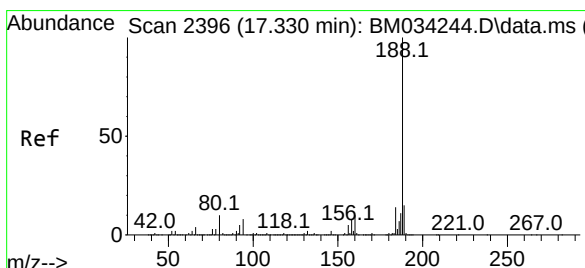
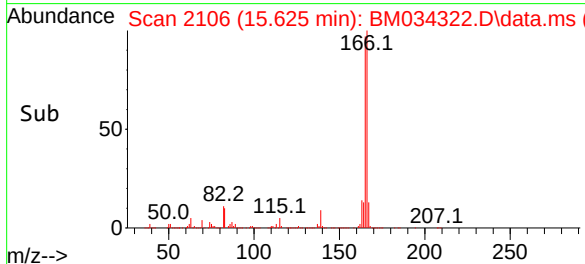
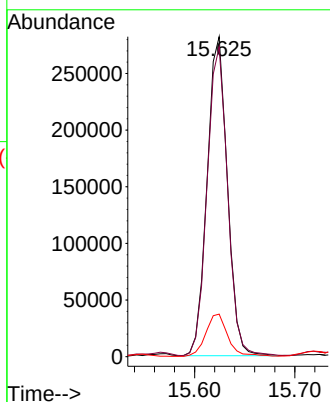
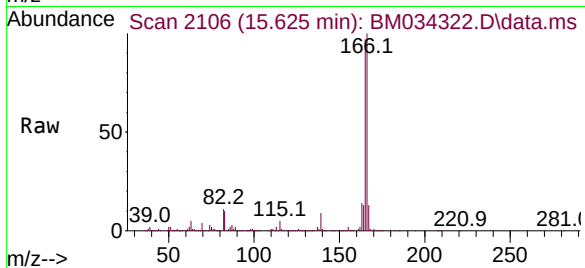
Tgt Ion:166 Resp: 396311

Ion Ratio Lower Upper

166 100

165 96.9 78.0 117.0

167 13.3 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.319 min Scan# 2394

Delta R.T. -0.011 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

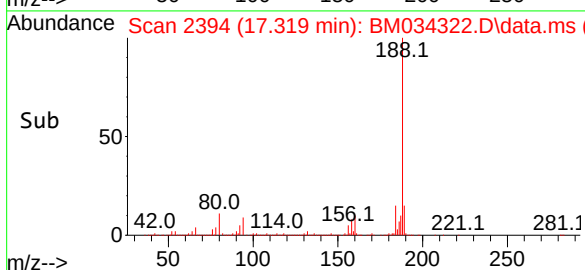
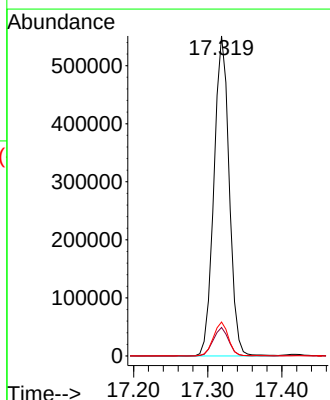
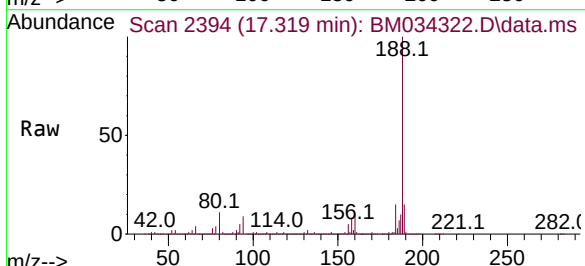
Tgt Ion:188 Resp: 789173

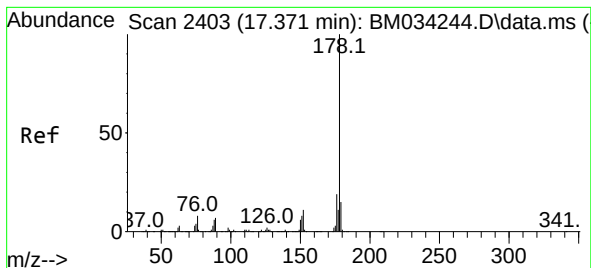
Ion Ratio Lower Upper

188 100

94 8.9 6.6 9.8

80 10.6 7.8 11.8





#71

Phenanthrene

Concen: 70.454 ng

RT: 17.366 min Scan# 24

Delta R.T. -0.006 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

Instrument :

BNA_M

ClientSampleId :

C-14-13-14

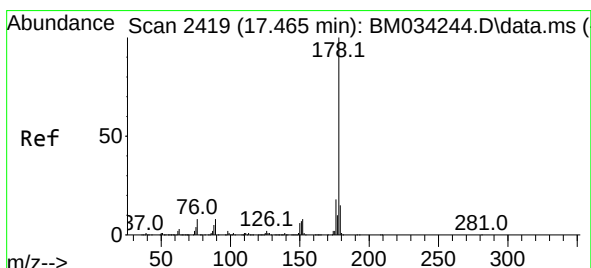
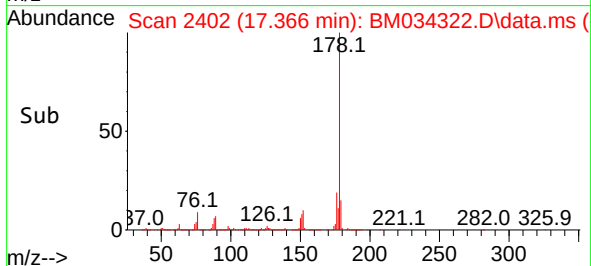
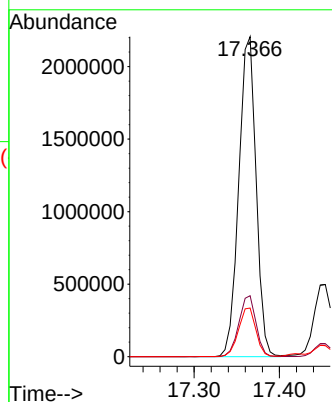
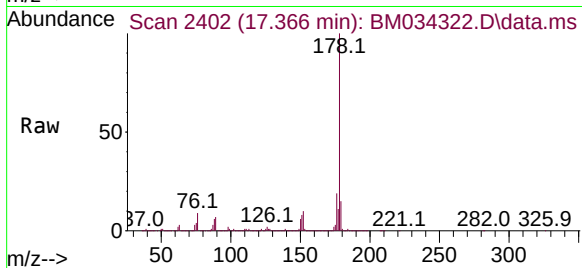
Tgt Ion:178 Resp: 3113724

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 15.2 12.2 18.4



#72

Anthracene

Concen: 16.686 ng

RT: 17.454 min Scan# 2417

Delta R.T. -0.011 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

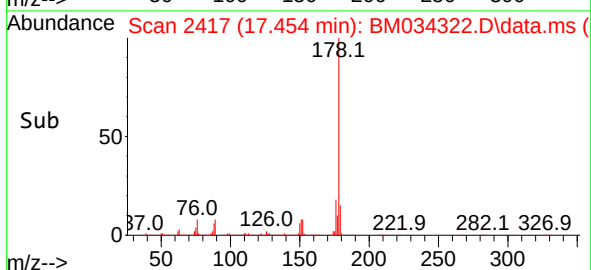
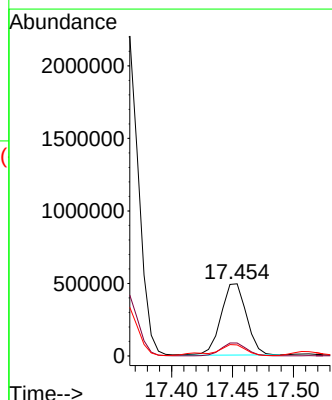
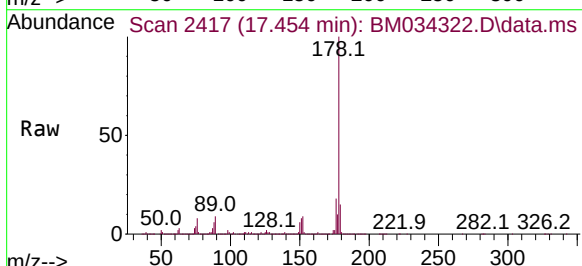
Tgt Ion:178 Resp: 717771

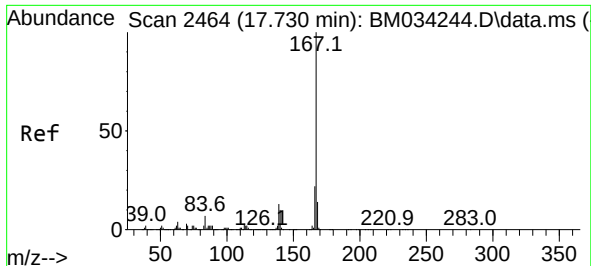
Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

179 15.4 12.2 18.2

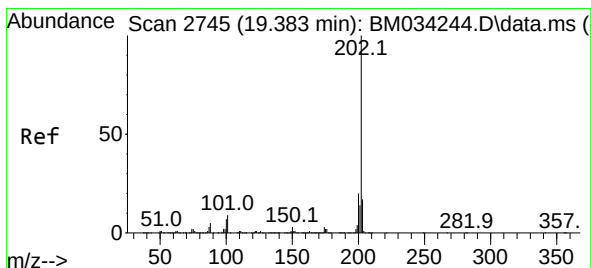
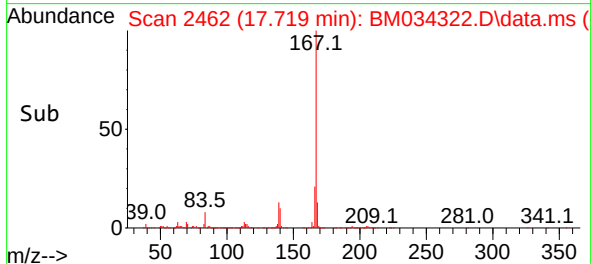
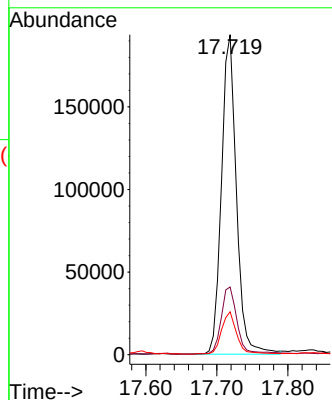
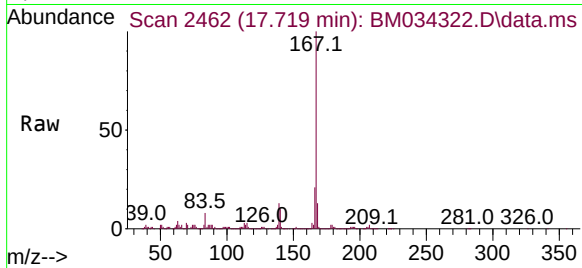




#73
 Carbazole
 Concen: 7.021 ng
 RT: 17.719 min Scan# 24
 Delta R.T. -0.011 min
 Lab File: BM034322.D
 Acq: 22 Mar 2022 22:28

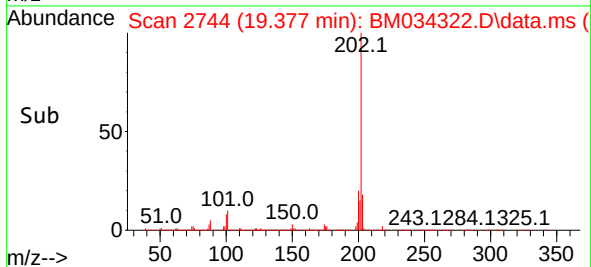
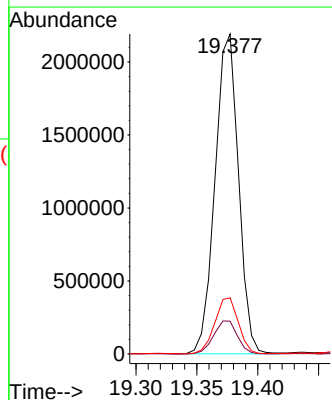
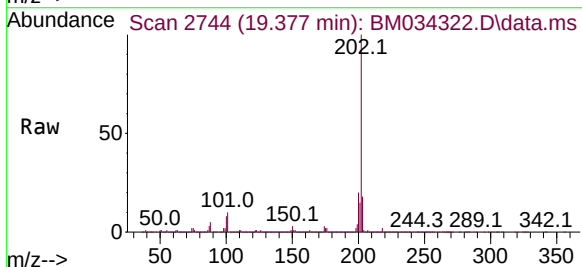
Instrument :
 BNA_M
 ClientSampleId :
 C-14-13-14

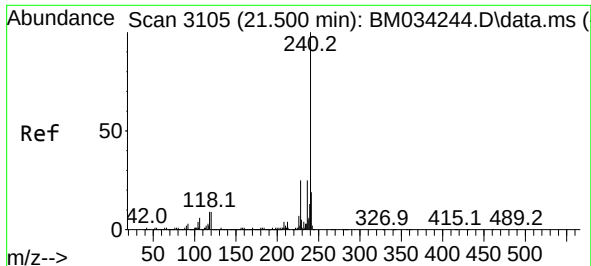
Tgt Ion:167 Resp: 281676
 Ion Ratio Lower Upper
 167 100
 166 21.2 17.4 26.2
 139 13.4 10.4 15.6



#75
 Fluoranthene
 Concen: 59.265 ng
 RT: 19.377 min Scan# 2744
 Delta R.T. -0.006 min
 Lab File: BM034322.D
 Acq: 22 Mar 2022 22:28

Tgt Ion:202 Resp: 2936215
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 29.4
 203 17.5 0.0 37.1

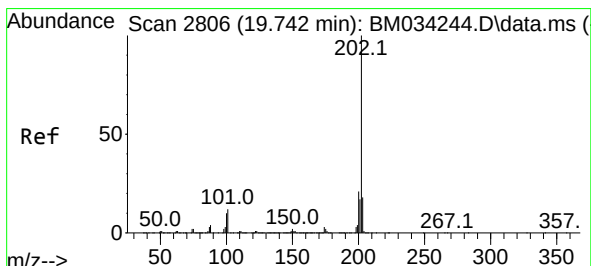
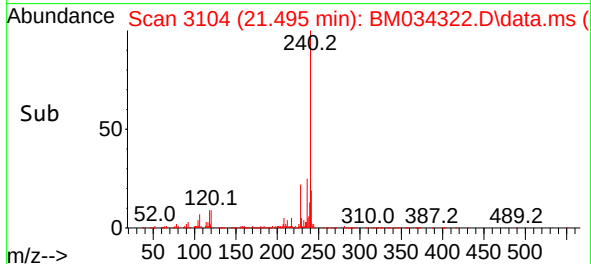
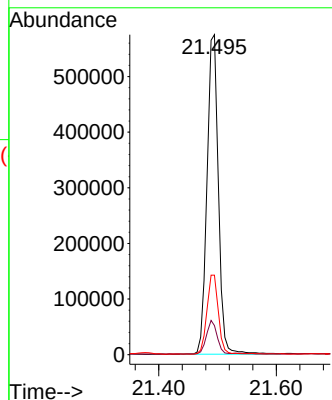
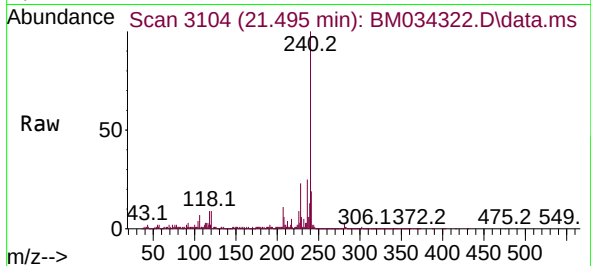




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.495 min Scan# 3105
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

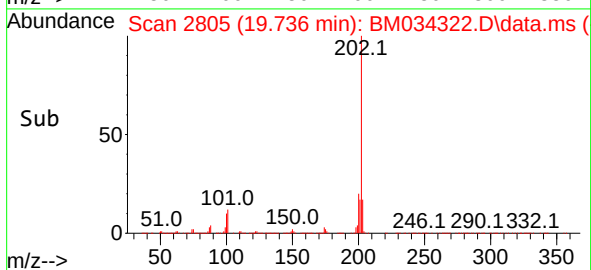
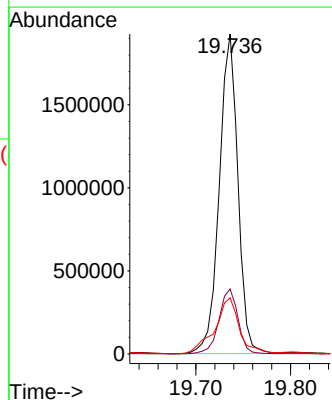
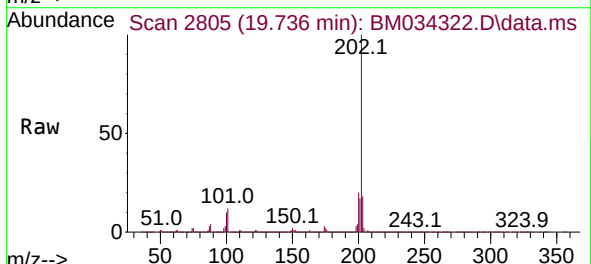
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

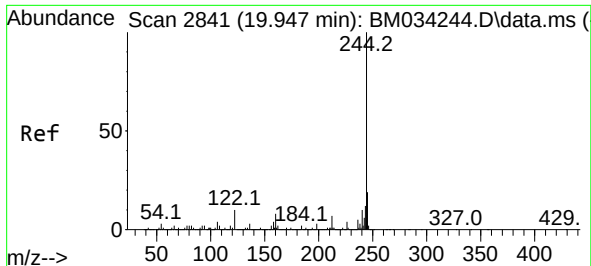
Tgt Ion:240 Resp: 772686
Ion Ratio Lower Upper
240 100
120 9.1 7.3 10.9
236 24.9 20.2 30.2



#78
Pyrene
Concen: 48.328 ng
RT: 19.736 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:202 Resp: 2630962
Ion Ratio Lower Upper
202 100
200 20.3 16.6 24.8
203 17.6 14.1 21.1

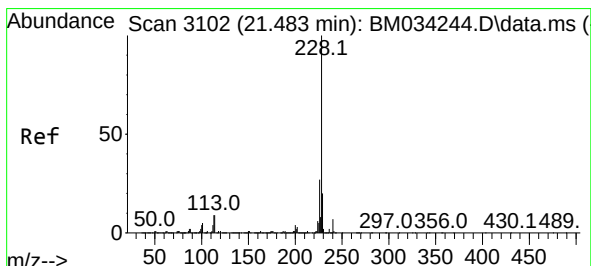
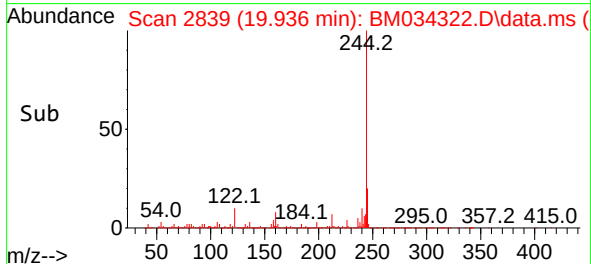
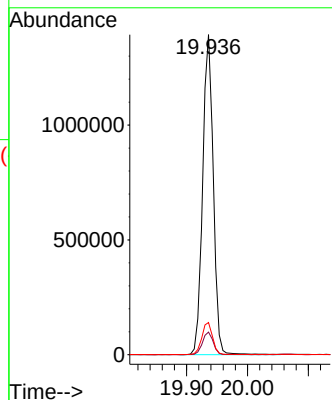
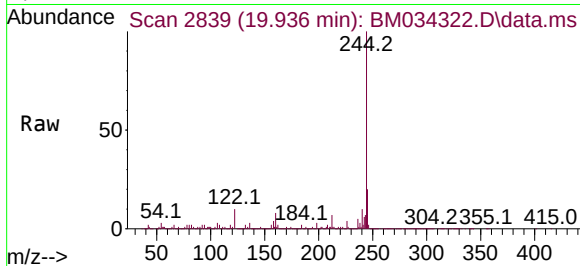




#79
 Terphenyl-d14
 Concen: 37.938 ng
 RT: 19.936 min Scan# 21
 Delta R.T. -0.011 min
 Lab File: BM034322.D
 Acq: 22 Mar 2022 22:28

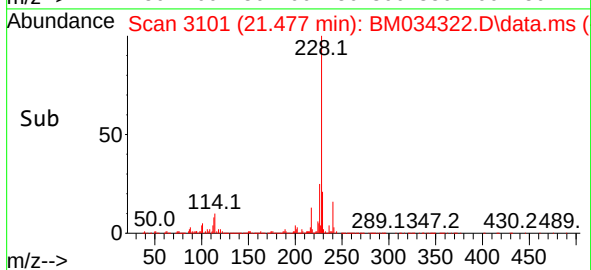
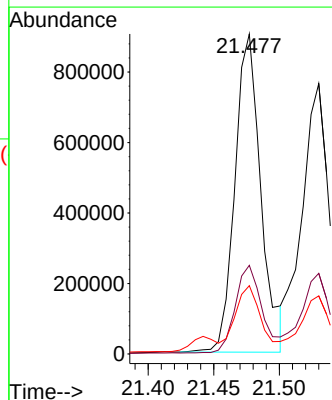
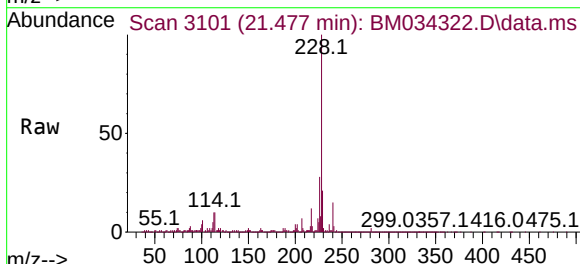
Instrument :
 BNA_M
 ClientSampleId :
 C-14-13-14

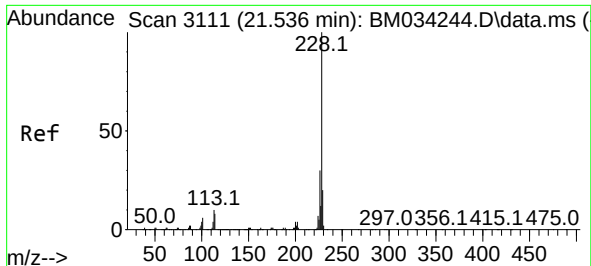
Tgt Ion:244 Resp: 1687045
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.9 8.9
 122 10.0 7.8 11.8



#81
 Benzo(a)anthracene
 Concen: 25.455 ng
 RT: 21.477 min Scan# 3101
 Delta R.T. -0.006 min
 Lab File: BM034322.D
 Acq: 22 Mar 2022 22:28

Tgt Ion:228 Resp: 1241421
 Ion Ratio Lower Upper
 228 100
 226 27.7 21.6 32.4
 229 21.4 15.8 23.6

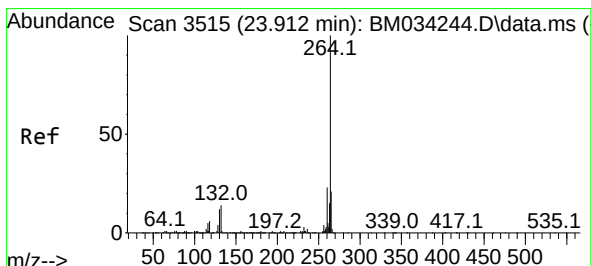
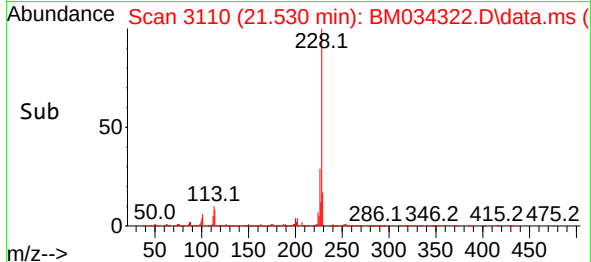
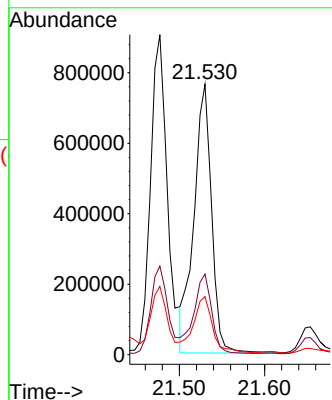
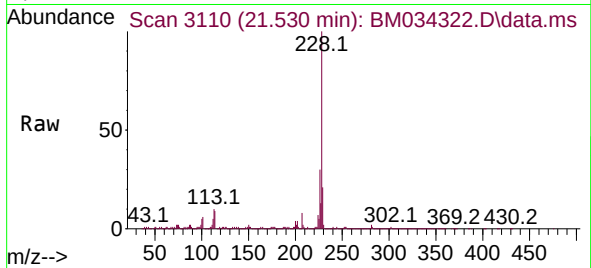




#83
Chrysene
Concen: 22.095 ng
RT: 21.530 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

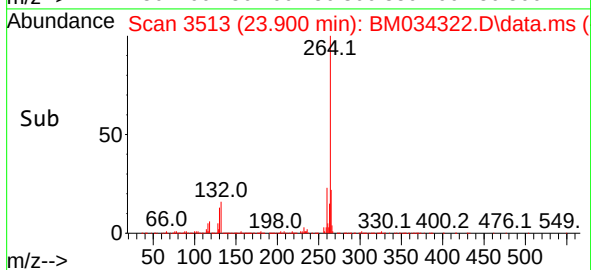
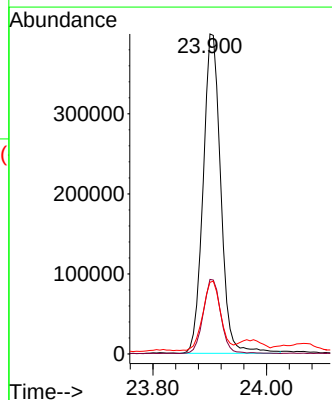
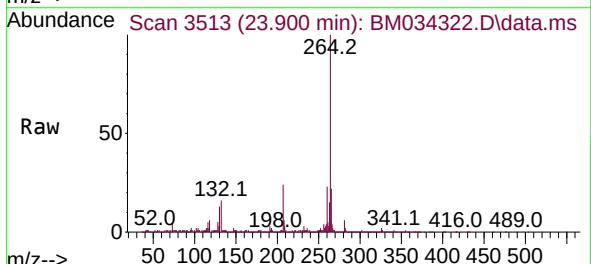
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

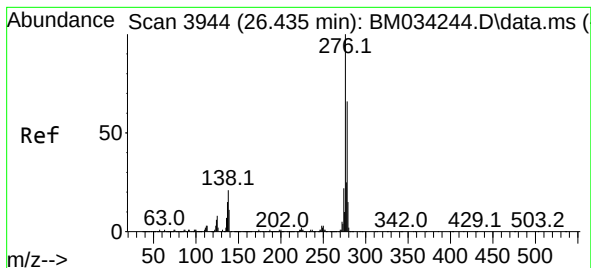
Tgt Ion:228 Resp: 1100362
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.6
229 21.5 15.6 23.4



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.900 min Scan# 3513
Delta R.T. -0.011 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:264 Resp: 858531
Ion Ratio Lower Upper
264 100
260 23.3 18.6 28.0
265 22.4 17.6 26.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.992 ng

RT: 26.412 min Scan# 3940

Delta R.T. -0.023 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

Instrument :

BNA_M

ClientSampleId :

C-14-13-14

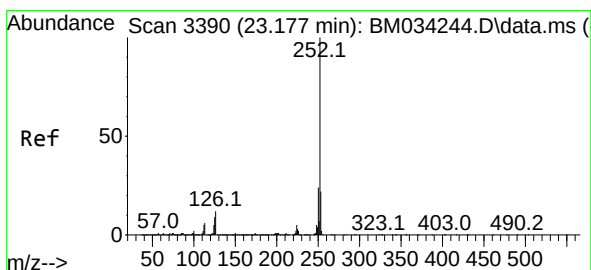
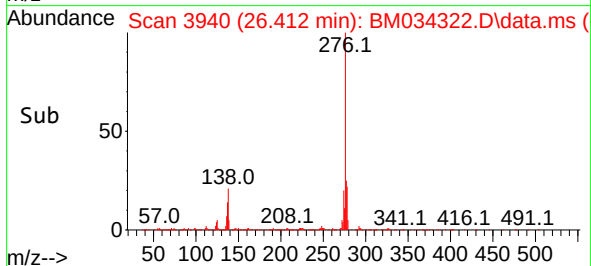
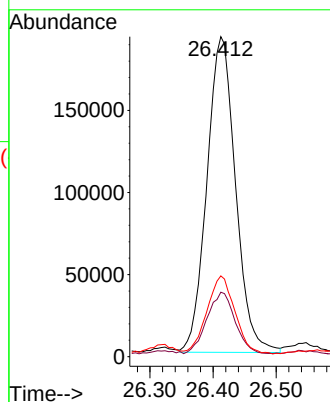
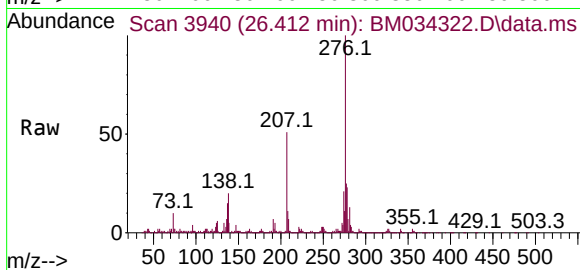
Tgt Ion:276 Resp: 607063

Ion Ratio Lower Upper

276 100

138 19.7 16.6 25.0

277 24.2 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 24.945 ng

RT: 23.171 min Scan# 3389

Delta R.T. -0.006 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

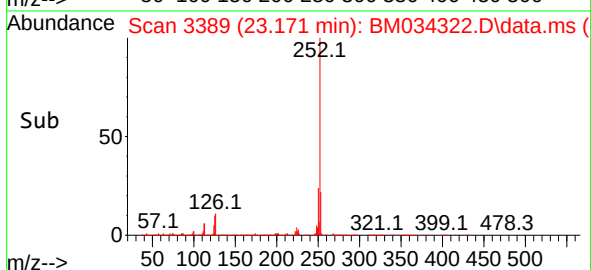
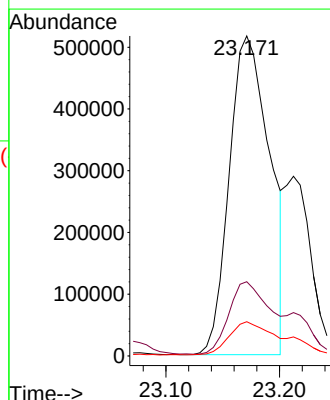
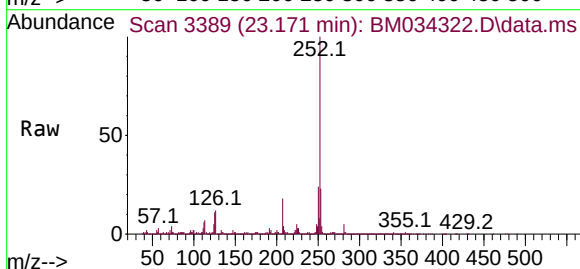
Tgt Ion:252 Resp: 1280619

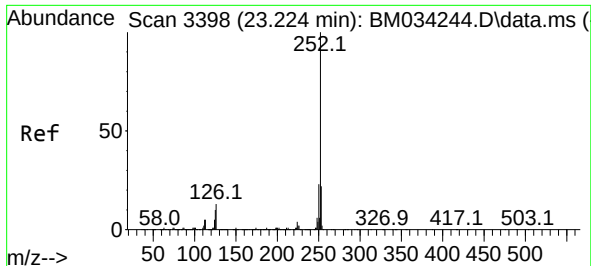
Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

125 10.7 7.2 10.8

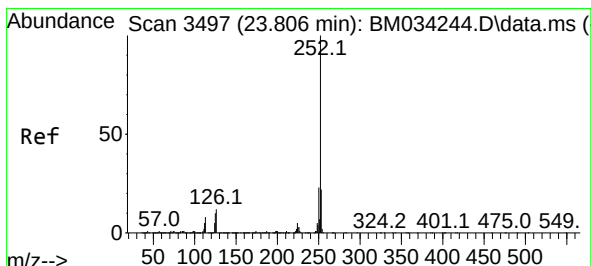
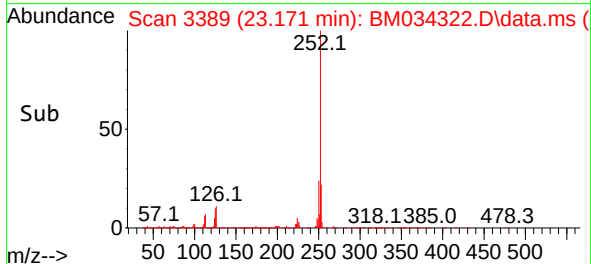
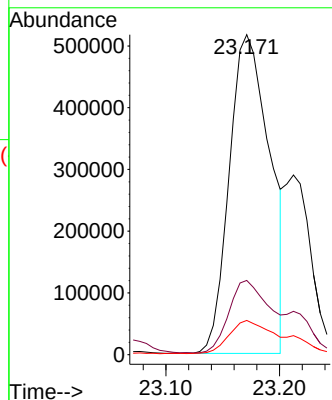
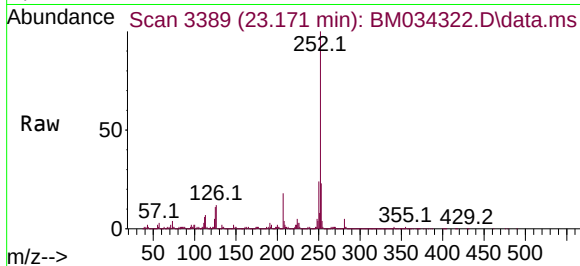




#89
Benzo(k)fluoranthene
Concen: 23.548 ng
RT: 23.171 min Scan# 31
Delta R.T. -0.053 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

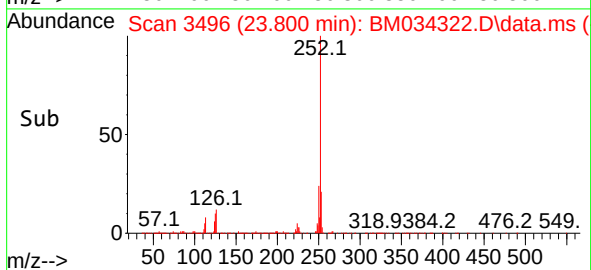
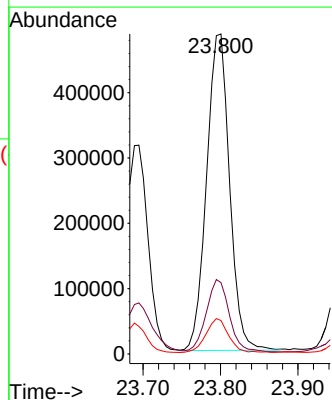
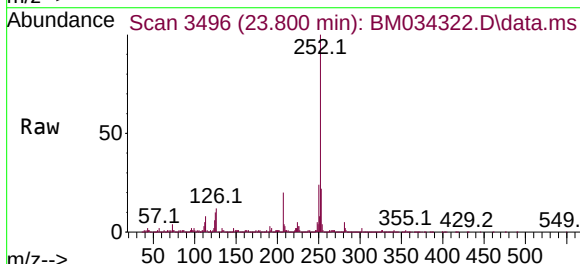
Instrument :
BNA_M
ClientSampleId :
C-14-13-14

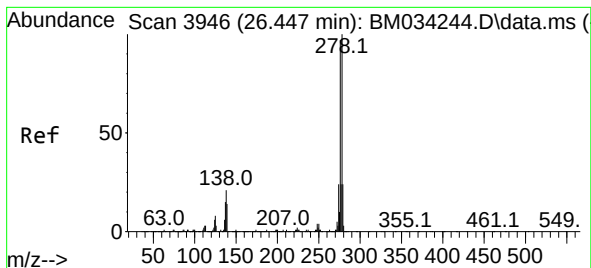
Tgt Ion:252 Resp: 1280619
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 10.7 7.5 11.3



#90
Benzo(a)pyrene
Concen: 22.940 ng
RT: 23.800 min Scan# 3496
Delta R.T. -0.006 min
Lab File: BM034322.D
Acq: 22 Mar 2022 22:28

Tgt Ion:252 Resp: 998371
Ion Ratio Lower Upper
252 100
253 22.3 17.5 26.3
125 10.4 7.8 11.6





#91

Dibenzo(a,h)anthracene

Concen: 3.700 ng

RT: 26.418 min Scan# 3946

Delta R.T. -0.029 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

Instrument :

BNA_M

ClientSampleId :

C-14-13-14

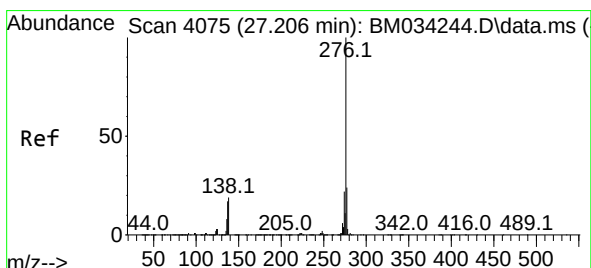
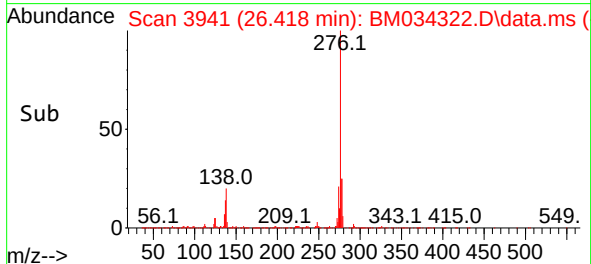
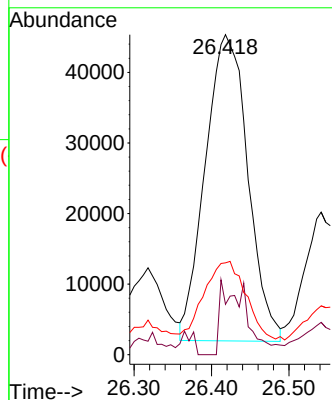
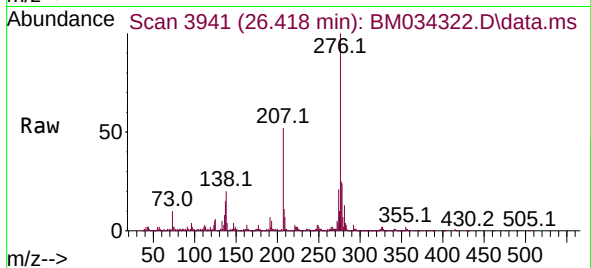
Tgt Ion:278 Resp: 165688

Ion Ratio Lower Upper

278 100

139 15.8 11.2 16.8

279 28.7 19.2 28.8



#92

Benzo(g,h,i)perylene

Concen: 12.913 ng

RT: 27.188 min Scan# 4072

Delta R.T. -0.017 min

Lab File: BM034322.D

Acq: 22 Mar 2022 22:28

Tgt Ion:276 Resp: 598520

Ion Ratio Lower Upper

276 100

277 24.2 19.0 28.4

138 19.8 15.6 23.4

