American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

June 24, 2003

RE: Brother Industries, Ltd.

FCC ID: B3Q5V6102

I have a few comments on the above referenced Application.

1) The cables 1, 3, 4, and 5 as shown on page 8 of 35 in the test report are typically shielded cables. Note that the typical build for USB and RGB specifies a shield in the cable. Please confirm if these cables were shielded or not and correct the report as necessary.
2) AC conducted emissions show QP data that is significantly higher than the peak hold data . Peak data is expected to be the worse case highest results. Please explain.
3) The restricted band edges show compliance with the peak limit. However compliance must also be shown with the 54 dBuV/m Average limit. Please add information explaining the correction factor for 100 msec period of time for each of the DH1, DH2, DH5 packets for a single channel. Note that this correction is typically > 20 dB for bluetooth devices.
4) Please confirm that for spurious emission > 1 GHz, that the device was not hopping and was hop stopped.
5) For the 7th peak harmonic of spurious emissions there appears failing data. It appears that this data exists because the ground floor of the measurements system was not low enough. However, it appears that the distance correction factor may not have been included in these measurements as it should have been. If the dynamic range did not exist to make the measurement, please explain how compliance can be assured. Alternatively, please provide new data for the 7th peak harmonic. Note that the report should not contain failing data.
6) For the 6th average harmonic and above during average spurious measurements, it does not appear that the test setup had enough dynamic range to make the measurements, therefore compliance can not typically be assured. However, it appears that the distance correction factor may not have been included in these measurements as it should have been. Note that also failing data should not be shown in the report. It would be best to add information regarding the pulse nature of the emissions and that the averaging correction factor is > 20 dB.

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Examining Engineer

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.