



October 22, 2009

Supplement to EMC Test Report for Motorola portable cellular phone (FCC ID IHDP6KU1)

Prepared by:

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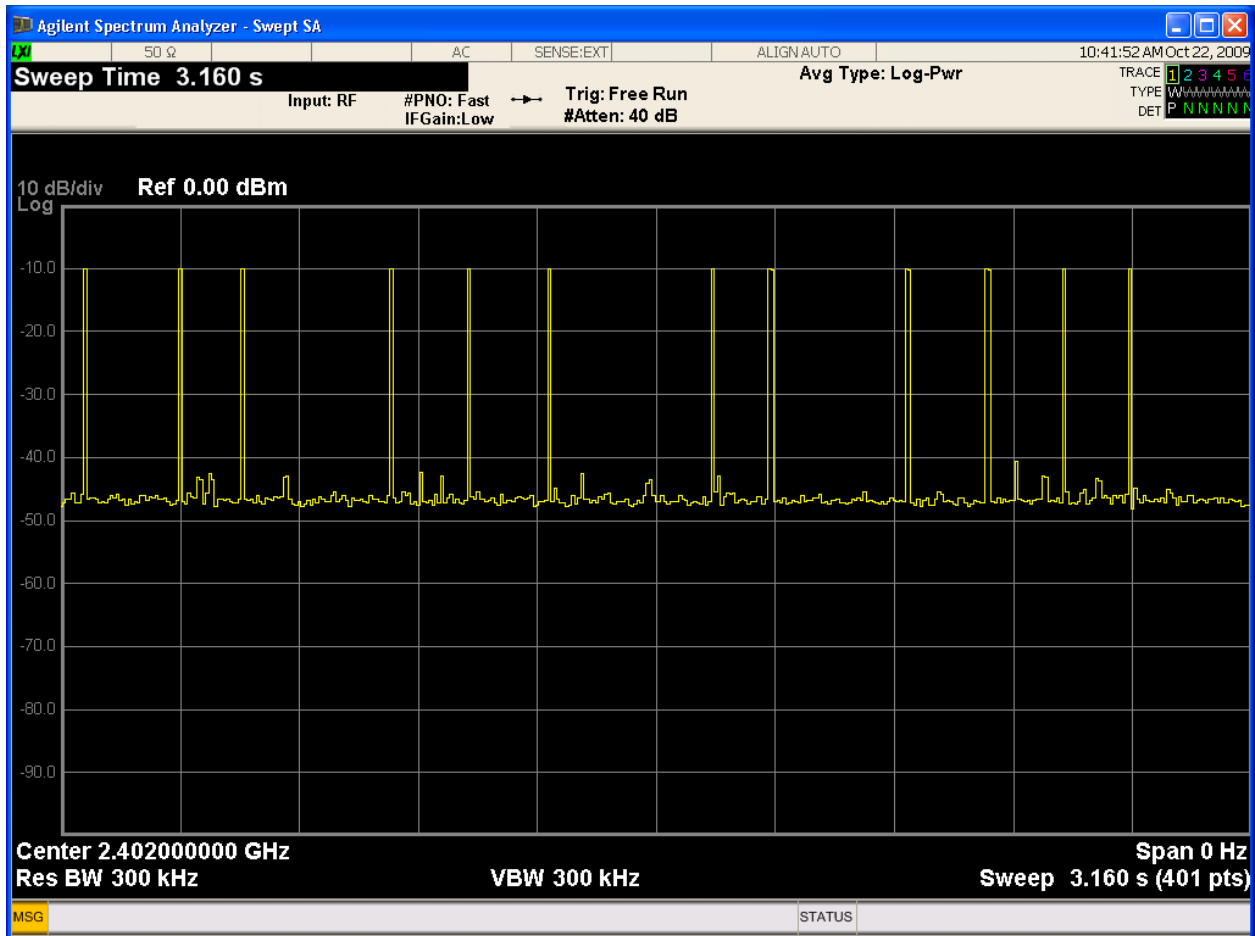
Summary of FCC request for additional information

There was a request for additional information regarding Motorola's EMC Test Report for Motorola portable cellular phone (FCC ID IHDP6KU1). The requested information is addressed below in the same numbering sequence received.

5. Part 15.247(a)(1) (iii) Average time of occupancy: Please provide additional data/calculations and plots showing compliance with this requirement over the period of time equal to 0.4s times the number of channels.
 - a. Per DA 00-705 - Please explain whether the dwell time varies with different mode of operations.
 - b. Please supply additional plots and calculations showing compliance with paragraph (a)(1)(iii).
6. Band edge compliance is incomplete in the restricted band above 2483.5MHz. Compliance with 15.209 and 15.35(b) is required in restricted band above 2483.5MHz. Please provide additional information according to FCC KDB procedure:
 - a. DA 00-705 – 2000
It is indicated the following: [quote] Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit. Submit this plot. [unquote] Please submit a revised report indicating compliance at the band-edges after enabling the hopping function.
7. Page 8/20 – Measurement results: The proposed measurement method is incomplete. Please quote 15.209, 15.205, and 15.35(b) for compliance with emissions in restricted bands and 15.247(d) for emissions outside restricted bands.

Response to question 5:

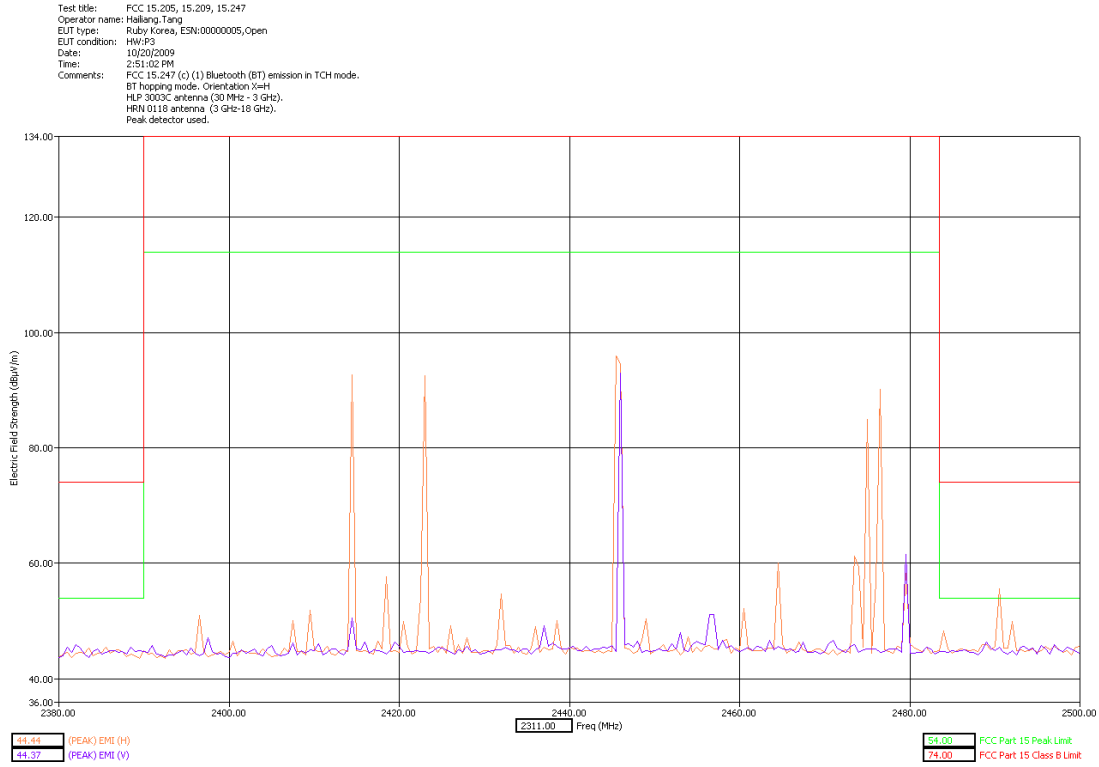
This product does not support EDR so there is only one operational mode.



The above plot shows 12 pulses in 3.16s. The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to $10 * (\# \text{ of pulses in } 3.16 \text{ s}) * \text{ the pulse width}$. The pulse width is 2.92ms, taken from the plot on page 12 of the original Bluetooth Conducted test report. This gives an average time of occupancy in 31.6s of 350.4ms.

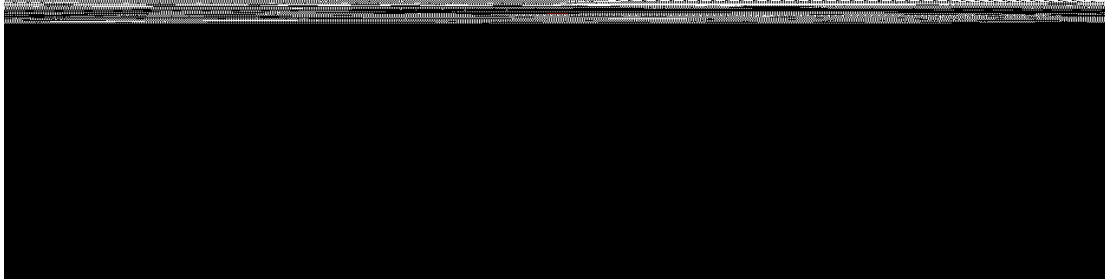
Response to question 6 and 7:

The following plots show the band edge emissions while the sample is in the hopping mode.

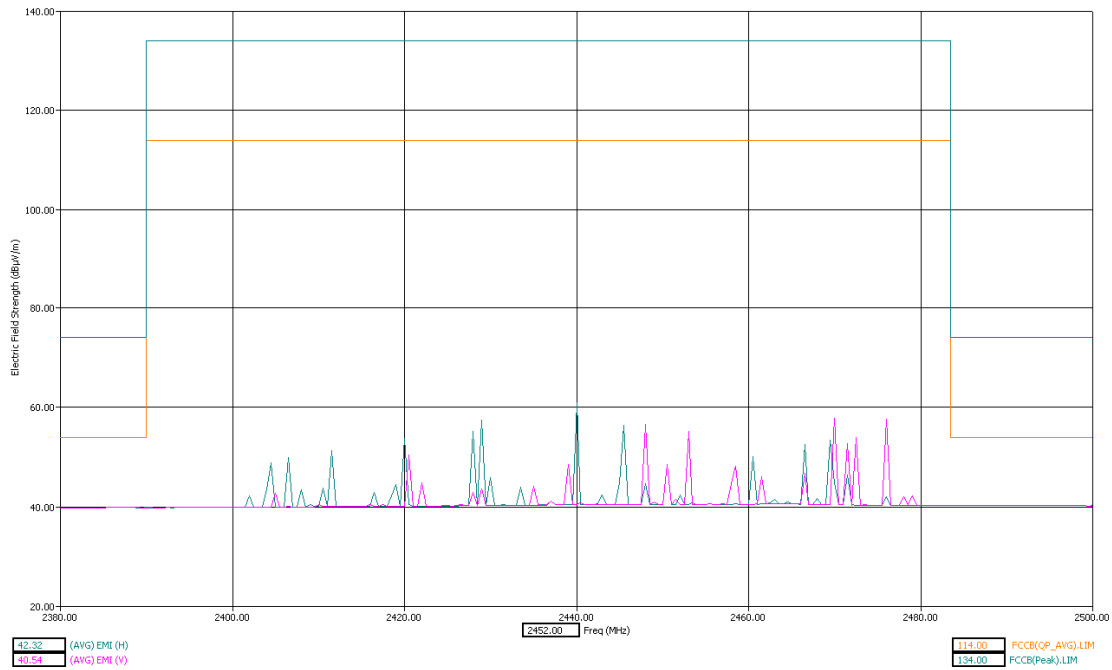


Authorized Band Emissions Hopping Channel Dual Polarization X

Test title: FCC 15.205, 15.209, 15.247
Operator name: Hailiang Tang
EUT type: Ruby Korea, ESN:00000005,Open
EUT condition: HW:P3
Date: 10/20/2009
Time: 4:22:34 PM
Comments: FCC 15.247 (c) (1) Bluetooth (BT) emission in TCH mode.
BT hopping mode. Orientation Y=V
HLP 3003C antenna (30 MHz - 3 GHz)

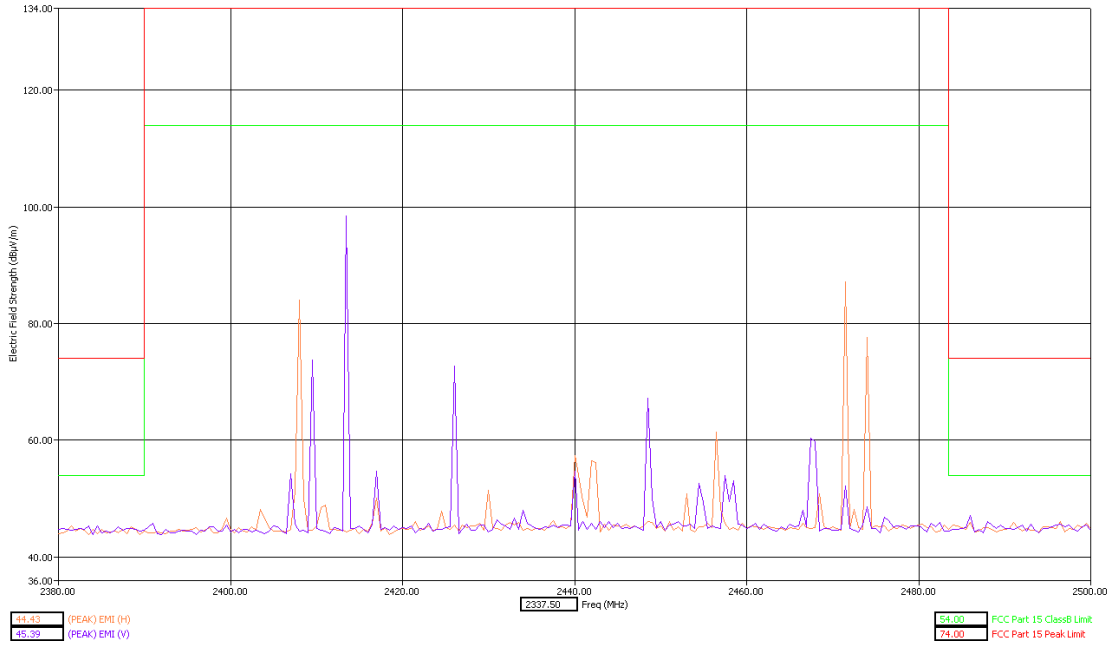


Test title: FCC 15.205, 15.209, 15.247
Operator name: Hongzhi Sun
EUT type: Ruby Korea, ESN:00000005,Open
EUT condition: HW:P3
Date: 10/20/2009
Time: 5:04:22 PM
Comments: FCC 15.247 (c) (1) Bluetooth (BT) emission in TCH mode.
BT hopping mode. Orientation Y=V
HLP 3003C antenna (30 MHz - 3 GHz), AVG detector used.



Authorized Band Emissions Hopping Channel Dual Polarization Y

Test file: FCC 15.205, 15.209, 15.247
Operator name: Hailiang.Tang
EUT type: Ruby Korea, ESN:00000005,Open
EUT condition: HW:P3
Date: 10/20/2009
Time: 4:06:51 PM
Comments: FCC 15.247 (c) (1) Bluetooth (BT) emission in TCH mode.
BT ch. 39 (2441 MHz) do in test mode. Orientation Z=V
HLP 3003C antenna (30 MHz - 3 GHz).
HRN 0118 antenna (3 GHz-18 GHz).
Peak detector used.



Authorized Band Emissions Hopping Channel Dual Polarization Z