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Date: MAY 8, 2013
PCTEST TCB/CB
Div. of PCTEST Engineering Lab., Inc.
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Subject: Samsung Electronics Co., Ltd.
FCC ID: A3LSGHI527

To Whom it May Concern

We attest the following regarding FCC ID: A3LSGHI527

1. MPR is permanently implemented for all channel bandwidths, modulations, frequency bands and RB sizes:
Supported channel bandwidths, modulations, frequency bands:
 - a. LTE Band 2 (Channel BW 5, 10, 15,20 MHz)/QPSK & 16AM
 - b. LTE Band 4 (Channel BW 5, 10, 15,20 MHz)/QPSK & 16AM
 - c. LTE Band 5 (Channel BW 5, 10 MHz)/QPSK & 16AM
 - d. LTE Band 17 (Channel BW 5, 10 MHz)/QPSK & 16AM
2. MPR is implemented per 3GPP TS 36.101. With MPR permanently implemented, this device will never operate in QPSK and 16QAM at a higher power than listed in the corresponding tune-up procedure.
3. We confirm the specific MPR targets and tolerances shown below:
 - 1) The LTE MPR Targets for Band 2 (PCS) are:

Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
Band 2	5	QPSK	1	0	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	6	1	0-1
	5	QPSK	25	0	1	0-1
	5	16-QAM	1	0	1	0-1
	5	16-QAM	1	24	1	0-1
	5	16-QAM	12	6	2	0-2
	5	16-QAM	25	0	2	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	12	1	0-1
	10	QPSK	50	0	1	0-1
	10	16-QAM	1	0	1	0-1
	10	16-QAM	1	49	1	0-1
	10	16-QAM	25	12	2	0-2
	10	16-QAM	50	0	2	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	18	1	0-1
	15	QPSK	75	0	1	0-1
	15	16-QAM	1	0	1	0-1
	15	16-QAM	1	74	1	0-1
	15	16-QAM	36	18	2	0-2
	15	16-QAM	75	0	2	0-2
	20	QPSK	1	0	0	0
	20	QPSK	1	99	0	0
	20	QPSK	50	25	1	0-1
	20	QPSK	100	0	1	0-1
	20	16-QAM	1	0	1	0-1
	20	16-QAM	1	99	1	0-1
	20	16-QAM	50	25	2	0-2
	20	16-QAM	100	0	2	0-2

2) The LTE MPR Targets for Band 4 (AWS) are:

Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
Band 2	5	QPSK	1	0	0	0
	5	QPSK	1	24	0	0
	5	QPSK	12	6	1	0-1
	5	QPSK	25	0	1	0-1
	5	16-QAM	1	0	1	0-1
	5	16-QAM	1	24	1	0-1
	5	16-QAM	12	6	2	0-2
	5	16-QAM	25	0	2	0-2
	10	QPSK	1	0	0	0
	10	QPSK	1	49	0	0
	10	QPSK	25	12	1	0-1
	10	QPSK	50	0	1	0-1
	10	16-QAM	1	0	1	0-1
	10	16-QAM	1	49	1	0-1
	10	16-QAM	25	12	2	0-2
	10	16-QAM	50	0	2	0-2
	15	QPSK	1	0	0	0
	15	QPSK	1	74	0	0
	15	QPSK	36	18	1	0-1
	15	QPSK	75	0	1	0-1
	15	16-QAM	1	0	1	0-1
	15	16-QAM	1	74	1	0-1
	15	16-QAM	36	18	2	0-2
	15	16-QAM	75	0	2	0-2
	20	QPSK	1	0	0	0
	20	QPSK	1	99	0	0
	20	QPSK	50	25	1	0-1
	20	QPSK	100	0	1	0-1
	20	16-QAM	1	0	1	0-1
	20	16-QAM	1	99	1	0-1
	20	16-QAM	50	25	2	0-2
	20	16-QAM	100	0	2	0-2

3) The LTE MPR Targets for Band 5 (Cell) are:

Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
5	QPSK	1	0	0	0
5	QPSK	1	24	0	0
5	QPSK	12	6	1	0-1
5	QPSK	25	0	1	0-1
5	16-QAM	1	0	1	0-1
5	16-QAM	1	24	1	0-1
5	16-QAM	12	6	2	0-2
5	16-QAM	25	0	2	0-2
10	QPSK	1	0	0	0
10	QPSK	1	49	0	0
10	QPSK	25	12	1	0-1
10	QPSK	50	0	1	0-1
10	16QAM	1	0	1	0-1
10	16QAM	1	49	1	0-1
10	16QAM	25	12	2	0-2
10	16QAM	50	0	2	0-2

4) The LTE MPR Targets for Band 17 are:

Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
5	QPSK	1	0	0	0
5	QPSK	1	24	0	0
5	QPSK	12	6	1	0-1
5	QPSK	25	0	1	0-1
5	16-QAM	1	0	1	0-1
5	16-QAM	1	24	1	0-1
5	16-QAM	12	6	2	0-2
5	16-QAM	25	0	2	0-2
10	QPSK	1	0	0	0
10	QPSK	1	49	0	0
10	QPSK	25	12	1	0-1
10	QPSK	50	0	1	0-1
10	16QAM	1	0	1	0-1
10	16QAM	1	49	1	0-1
10	16QAM	25	12	2	0-2
10	16QAM	50	0	2	0-2

4. A-MPR was disabled for all SAR test samples for SAR testing purposed only.

5. We attest to the simultaneous Tx listed on the Operational Description to be accurate and furthermore, any other simultaneous Tx combinations not listed on the SAR report are not supported by software/hardware design.

Should you have any questions or comments concerning the above, please contact the undersigned.

Sincerely,



JAEHO KIM

Engineer

Samsung Electronics Co., Ltd.