

# FCC TEST REPORT (CO-LOCATED)

**REPORT NO.:** RF130829C06-1

MODEL NO.: K530S

FCC ID: UZI-30SK58

**RECEIVED:** Aug. 29, 2013

**TESTED:** Sep. 12 ~ Sep. 13, 2013

**ISSUED:** Sep. 13, 2013

APPLICANT: BandRich Inc.

ADDRESS: 6F., No.71, Zhouzi St., Neihu Dist., Taipei City

114, Taiwan (R.O.C.)

**ISSUED BY:** Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,

New Taipei City, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130829C06-1	Original release	Sep. 13, 2013

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# 1. CERTIFICATION

PRODUCT: LTE M2M & Vehicle Mount Router

MODEL NO.: K530S

**BRAND:** BandLuxe

APPLICANT: BandRich Inc.

**TESTED:** Sep. 12 ~ Sep. 13, 2013

**TEST SAMPLE:** ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247)

FCC Part 22, Subpart H

FCC Part 24, Subpart E

FCC Part 27, Subpart C, M

FCC Part 90, Subpart S

FCC Part 2

ANSI C63.10-2009

The above equipment (model: K530S) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : \_\_\_\_\_ , DATE : \_\_\_ Sep. 13, 2013

Celine Chou / Specialist

APPROVED BY: , DATE: Sep. 13, 2013

Ken Liu / Senior Manager



# 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) FCC PART 15, SUBPART E (SECTION 15.407)						
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK			
15.207 15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -19.57dB at 0.22812MHz.			
15.247(d) 15.407(b/1/2/3) (b)(6)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -10.8dB at 140.58MHz.			

#### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
Radiated emissions	200MHz ~1000MHz	2.95 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

EUT	LTE M2M & Vehicle Mount Router	
MODEL NO.	K530S	
POWER SUPPLY	12Vdc (adapter)	
DATA CABLE	NA	
I/O PORTS	Refer to user's manual	
ACCESSORY DEVICES	Adapter	

# **WLAN**

MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
MODULATION TECHNOLOGY	DSSS, OFDM		
TRANSFER RATE	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps		
OPERATING FREQUENCY	2412 ~ 2462MHz		
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)		
ANTENNA TYPE	Monopole antenna with 2dBi gain		
ANTENNA CONNECTOR	SMA Male Reverse		



# **WWAN**

	CDMA, EVDO	QPSK, OQPSK, HPSK
MODULATION TYPE	LTE	QPSK, 16QAM
	CDMA, EVDO	817.9MHz ~ 822.75MHz 824.7MHz ~ 848.31MHz 1851.25MHz ~ 1908.75MHz
	LTE Band 25 (Channel Bandwidth: 3MHz)	1851.5MHz ~ 1913.5MHz
	LTE Band 25 (Channel Bandwidth: 5MHz)	1852.5MHz ~ 1912.5MHz
	LTE Band 25 (Channel Bandwidth: 10MHz)	1855.0MHz ~ 1910.0MHz
	LTE Band 26 (Channel Bandwidth 1.4MHz)	814.7MHz ~ 823MHz 824.7MHz ~ 848.3MHz
FREQUENCY RANGE	LTE Band 26 (Channel Bandwidth 3MHz)	815.5MHz ~ 822.5MHz 825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth 5MHz)	816.5MHz ~ 821.5MHz 826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth 10MHz)	819MHz 829.00MHz ~ 844.0MHz
	LTE Band 41 Channel Bandwidth 10MHz:	2501MHz ~ 2685MHz
	LTE Band 41 Channel Bandwidth 15MHz:	2503.5MHz ~ 2682.5MHz
	LTE Band 41 Channel Bandwidth 20MHz:	2506MHz ~ 2680MHz

# NOTE:

1. The EUT consumes power from the following adapter.

ADAPTER	
BRAND:	DVE
MODEL:	DSA-12G-12 FUS 120120
INPUT:	100-240V~50/60Hz 0.3A
OUTPUT:	+12V / 1A
POWER LINE:	1.5m non-shielded cable without core

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



# 3.2 DESCRIPTION OF TEST MODES

# **WLAN:**

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		



# 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		APPLICABLE TO		DESCRIPTION
MODE	RE≥1G	RE<1G	PLC	DESCRIPTION
-	V	V	V	-

Where **RE≥1G:** Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

**NOTE:** The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

#### **RADIATED EMISSION TEST (ABOVE 1GHz):**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
	802.11g +	2412 ~ 2462	1 to 11	6 + 1012	BPSK
-	CDMA BC0	824.7 ~ 848.31	1013 to 777	6 + 1013	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 05	BPSK
-	CDMA BC1	1851.25 ~ 1908.75	25 to 1175	6 + 25	QPSK
	802.11g + CDMA BC10	2412 ~ 2462	1 to 11	0 : 470	BPSK
-		817.9 ~ 822.75	476 to 670	6 + 476	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 : 00055	BPSK
-	LTE Band 25 (3Mhz)	1851.5 ~ 1913.5	26055 to 26675	6 + 26055	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 : 00775	BPSK
-	LTE Band 26 (3Mhz)	815.5 ~ 822.5	26705 to 26775	6 + 26775	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 - 00700	BPSK
-	LTE Band 41 (10Mhz)	2501 ~ 2685	39700 to 41540	6 + 39700	QPSK

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#### RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
	802.11g +	2412 ~ 2462	1 to 11	6 + 1013	BPSK
-	CDMA BC0	824.7 ~ 848.31	1013 to 777	6 + 1013	QPSK
	802.11g +	2412 ~ 2462	1 to 11	6 + 25	BPSK
-	CDMA BC1	1851.25 ~ 1908.75	25 to 1175	0 + 25	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 470	BPSK
-	CDMA BC10	817.9 ~ 822.75	476 to 670	6 + 476	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 20055	BPSK
-	LTE Band 25 (3Mhz)	1851.5 ~ 1913.5	26055 to 26675	6 + 26055	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 00775	BPSK
-	LTE Band 26 (3Mhz)	815.5 ~ 822.5	26705 to 26775	6 + 26775	QPSK
	802.11g +	2412 ~ 2462	1 to 11	6 + 20700	BPSK
-	LTE Band 41 (10Mhz)	2501 ~ 2685	39700 to 41540	6 + 39700	QPSK

#### **CONDUCTED EMISSION TEST:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. RANGE (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY
	802.11g +	2412 ~ 2462	1 to 11	6 + 1013	BPSK
_	CDMA BC0	824.7 ~ 848.31	1013 to 777	0 + 1013	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 05	BPSK
-	CDMA BC1	1851.25 ~ 1908.75	25 to 1175	6 + 25	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 470	BPSK
_	CDMA BC10	817.9 ~ 822.75	476 to 670	6 + 476	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 00055	BPSK
-	LTE Band 25 (3Mhz)	1851.5 ~ 1913.5	26055 to 26675	6 + 26055	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 : 00775	BPSK
-	LTE Band 26 (3Mhz)	815.5 ~ 822.5	26705 to 26775	6 + 26775	QPSK
	802.11g +	2412 ~ 2462	1 to 11	0 + 20700	BPSK
-	LTE Band 41 (10Mhz)	2501 ~ 2685	39700 to 41540	6 + 39700	QPSK



# **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
RE<1G	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui
PLC	24deg. C, 64%RH	120Vac, 60Hz	Match Tsui

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# 3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

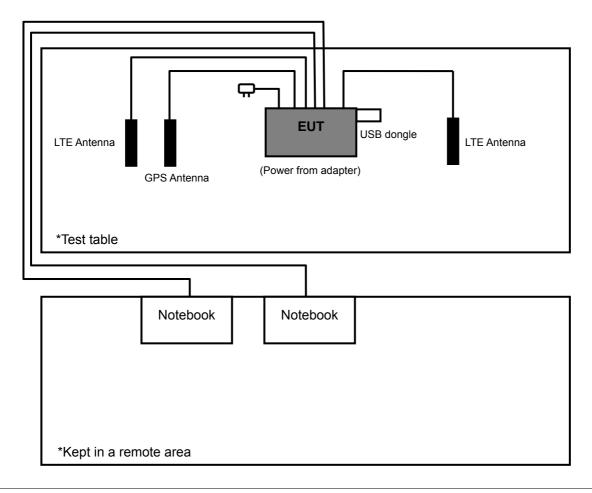
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	E5420	BPQ7MQ1	FCC Doc Approved
2	NOTEBOOK	DELL	E5410	6RP2YM1	FCC Doc Approved
3	USB DONGLE	Transcend	V85	569992-8208	FCC Doc Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	3m LAN Cable
2	3m LAN Cable
3	NA

#### NOTE:

- 1. All power cords of the above support units are non-shielded (1.8m).
- 2. Item 1-2 acted as a communication partner to transfer data.

#### 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



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#### 3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (Section 15.247)

FCC Part 22, Subpart H

FCC Part 24, Subpart E

FCC Part 27, Subpart C, M

FCC Part 90, Subpart S

FCC Part 2

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.



# 4. TEST TYPES AND RESULTS

#### 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

#### 4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO		LIMIT	
	FIELD STRENGTH AT 3m (dBµV/m)		
$\checkmark$	PK	AV	
	74	54	
	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)	
	PK	PK	
	-27	68.3	

**NOTE:** The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts).



# 4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 25, 2012	Dec. 24, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jan. 31, 2013	Jan. 30, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Mar. 20, 2013	Mar. 19, 2014
HORN Antenna SCHWARZBECK	9120D	209	Sep. 03, 2013	Sep. 02, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8447D	2944A10633	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8449B	3008A01964	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230132/4	Oct. 26, 2012	Oct. 25, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	309223/4+309218 /4	Oct. 26, 2012	Oct. 25, 2013
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  - 2. The test was performed in HwaYa Chamber 3.
  - 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  - 4. The FCC Site Registration No. is 988962.
  - 5. The IC Site Registration No. is IC 7450F-3.



#### 4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### NOTE:

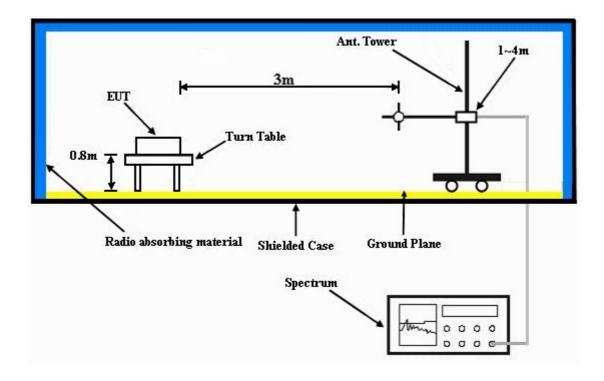
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz(Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.5 DEVIATION FROM TEST STANDARD

No deviation.



#### 4.1.6 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.7 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared notebooks to act as communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".
- e. The necessary accessories enable the system in full functions.



# 4.1.8 TEST RESULTS

# **ABOVE 1GHz DATA:**

802.11g + CDMA BC0

<b>EUT TEST CONDITION</b>		MEASUREMENT DETAIL		
CHANNEL	Channel 6 + 1013	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	23deg. C, 66%RH	TESTED BY	Match Tsui	

	I	ANTENNA	POLARITY	& TEST DIS	IANCE: HO	RIZONTAL	AT3M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.8 PK			1.02 H	327	82.40	32.40
2	*2437.00	104.9 AV			1.02 H	327	72.50	32.40
3	4874.00	54.6 PK	74.0	-19.4	1.00 H	214	48.00	6.60
4	4874.00	39.2 AV	54.0	-14.8	1.00 H	214	32.60	6.60
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
<b>NO</b> .	FREQ. (MHz) *2437.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR
	, ,	LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)
1	*2437.00	LEVEL (dBuV/m) 104.2 PK		MARGIN (dB) -25.9	<b>HEIGHT (m)</b> 1.03 V	ANGLE (Degree)	(dBuV) 71.80	FACTOR (dB/m) 32.40

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



#### 802.11g + CDMA BC1

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6 + 25	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	23deg. C, 66%RH	TESTED BY	Match Tsui	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.8 PK			1.03 H	289	82.40	32.40
2	*2437.00	105.1 AV			1.03 H	289	72.70	32.40
3	4874.00	54.3 PK	74.0	-19.7	1.00 H	180	47.70	6.60
4	4874.00	38.6 AV	54.0	-15.4	1.00 H	180	32.00	6.60
		ANTENNA	POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
<b>NO</b> .	FREQ. (MHz) *2437.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR
	` ,	LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)
1	*2437.00	LEVEL (dBuV/m) 104.2 PK		MARGIN (dB) -25.6	<b>HEIGHT (m)</b> 1.01 V	ANGLE (Degree)	(dBuV) 71.80	FACTOR (dB/m) 32.40

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



#### 802.11g + CDMA BC10

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 6 + 476		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	23deg. C, 66%RH	TESTED BY	Match Tsui	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.7 PK			1.00 H	266	82.30	32.40
2	*2437.00	105.3 AV			1.00 H	266	72.90	32.40
3	4874.00	54.5 PK	74.0	-19.5	1.02 H	180	47.90	6.60
4	4874.00	39.7 AV	54.0	-14.3	1.02 H	180	33.10	6.60
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
					<u> </u>		1 0 111	
NO.	FREQ. (MHz)	EMISSION	LIMIT	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
<b>NO</b> .	FREQ. (MHz) *2437.00	EMISSION LEVEL	LIMIT		ANTENNA	TABLE ANGLE	RAW VALUE	FACTOR
		EMISSION LEVEL (dBuV/m)	LIMIT		ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)
1	*2437.00	EMISSION LEVEL (dBuV/m)	LIMIT		ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m) 32.40

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



# 802.11g + LTE Band 25 (3Mhz)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6 + 26055	26055 <b>FREQUENCY RANGE</b> 1 ~ 250		
INPUT POWER	120Vac 60Hz		Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	23deg. C, 66%RH	TESTED BY	Match Tsui	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.3 PK			1.01 H	277	82.90	32.40
2	*2437.00	105.9 AV			1.01 H	277	73.50	32.40
3	4874.00	54.9 PK	74.0	-19.1	1.01 H	200	48.30	6.60
4	4874.00	40.0 AV	54.0	-14.0	1.01 H	200	33.40	6.60
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
<b>NO.</b>	*2437.00	LEVEL		MARGIN (dB)		ANGLE		FACTOR
		LEVEL (dBuV/m)		MARGIN (dB)	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)
1	*2437.00	LEVEL (dBuV/m) 105.2 PK		-25.1	<b>HEIGHT (m)</b> 1.00 V	ANGLE (Degree)	(dBuV) 72.80	FACTOR (dB/m) 32.40

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



# 802.11g + LTE Band 26 (3Mhz)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 6		FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac 60Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	23deg. C, 66%RH hPa	TESTED BY	Match Tsui	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.0 PK			1.00 H	284	82.60	32.40
2	*2437.00	105.3 AV			1.00 H	284	72.90	32.40
3	4874.00	55.1 PK	74.0	-18.9	1.02 H	200	48.50	6.60
4	4874.00	40.0 AV	54.0	-14.0	1.02 H	200	33.40	6.60
		ANTENNA	POLARIT	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)		LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE	RAW VALUE (dBuV)	CORRECTION FACTOR
		(dBuV/m)				(Degree)		(dB/m)
1	*2437.00	(dBuV/m) 104.8 PK			1.00 V	139	72.40	32.40
1 2	*2437.00 *2437.00	,			1.00 V 1.00 V	, ,	72.40 63.20	, ,
		104.8 PK	74.0	-25.6		139		32.40

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



#### 802.11g + LTE Band 41 (10Mhz)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER (SYSTEM)	120Vac, 60Hz		Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	23deg. C, 66%RH hPa	TESTED BY	Match Tsui	

		ANTENNA I	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.3 PK			1.01 H	274	82.90	32.40
2	*2437.00	105.9 AV			1.01 H	274	73.50	32.40
3	4874.00	55.3 PK	74.0	-18.7	1.03 H	300	48.70	6.60
4	4874.00	40.3 AV	54.0	-13.7	1.03 H	300	33.70	6.60
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.9 PK			1.01 V	148	72.50	32.40
2	*2437.00	95.6 AV			1.01 V	148	63.20	32.40
3	4874.00	48.4 PK	74.0	-25.6	1.03 V	311	41.80	6.60
4	4874.00	37.0 AV	54.0	-17.0	1.03 V	311	30.40	6.60

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor(dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " \* ": Fundamental frequency.



# BELOW 1GHz DATA: 802.11g + CDMA BC0

<b>EUT TEST CONDITION</b>		MEASUREMENT DETAI	L		
CHANNEL	Channel 6 + 1013		Below 1000MHz		
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui		

		ANTENNA I	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.06	31.0 QP	43.5	-12.5	1.50 H	214	46.70	-15.70
2	140.58	32.7 QP	43.5	-10.8	2.00 H	263	47.40	-14.70
3	786.60	31.7 QP	46.0	-14.3	1.50 H	318	34.60	-2.90
4	854.50	30.8 QP	46.0	-15.2	1.01 H	231	32.30	-1.50
5	926.28	31.7 QP	46.0	-14.3	1.50 H	226	31.90	-0.20
6	957.32	31.3 QP	46.0	-14.7	1.50 H	102	31.00	0.30
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.06	27.3 QP	43.5	-16.2	1.50 V	143	43.00	-15.70
2	144.46	29.1 QP	43.5	-14.4	1.00 V	258	43.00	-13.90
3	784.66	32.9 QP	46.0	-13.1	1.00 V	80	35.80	-2.90
4	821.52	30.3 QP	46.0	-15.7	1.99 V	286	32.60	-2.30
5	895.24	30.0 QP	46.0	-16.0	1.50 V	15	30.90	-0.90
6	926.28	31.1 QP	46.0	-14.9	1.99 V	79	31.30	-0.20

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



# 802.11g + CDMA BC1

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL Channel 6 + 25		FREQUENCY RANGE	Below 1000MHz	
INPUT POWER	120Vac 60Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.06	29.6 QP	43.5	-13.9	1.99 H	198	45.30	-15.70
2	142.52	32.1 QP	43.5	-11.4	1.99 H	288	46.30	-14.20
3	817.64	29.2 QP	46.0	-16.8	1.00 H	15	31.50	-2.30
4	879.72	29.9 QP	46.0	-16.1	1.00 H	66	31.10	-1.20
5	937.92	31.0 QP	46.0	-15.0	1.99 H	321	31.00	0.00
6	959.26	31.1 QP	46.0	-14.9	1.99 H	94	30.80	0.30
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	119.24	27.3 QP	43.5	-16.2	1.01 V	330	43.60	-16.30
2	144.46	28.2 QP	43.5	-15.3	1.01 V	10	42.10	-13.90
3	144.46 829.28	28.2 QP 29.5 QP	43.5 46.0	-15.3 -16.5	1.01 V 1.01 V	10 350	42.10 31.50	-13.90 -2.00
<del></del>								
3	829.28	29.5 QP	46.0	-16.5	1.01 V	350	31.50	-2.00

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



# 802.11g + CDMA BC10

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	Channel 6 + 476		Below 1000MHz		
INPUT POWER	120Vac 60Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	125.06	29.7 QP	43.5	-13.8	1.99 H	15	45.40	-15.70			
2	142.52	31.3 QP	43.5	-12.2	1.99 H	281	45.50	-14.20			
3	177.44	26.8 QP	43.5	-16.7	1.99 H	241	41.80	-15.00			
4	871.96	30.3 QP	46.0	-15.7	1.00 H	165	31.60	-1.30			
5	906.88	31.6 QP	46.0	-14.4	1.99 H	4	32.20	-0.60			
6	937.92	30.9 QP	46.0	-15.1	1.99 H	15	30.90	0.00			
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	111.48	27.3 QP	43.5	-16.2	2.00 V	146	44.40	-17.10			
2	146.40	28.9 QP	43.5	-14.6	1.01 V	12	43.00	-14.10			
3	146.40 840.92	28.9 QP 29.5 QP	43.5 46.0	-14.6 -16.5	1.01 V 1.01 V	12 40	43.00 31.30	-14.10 -1.80			
_						· <b>-</b>					
3	840.92	29.5 QP	46.0	-16.5	1.01 V	40	31.30	-1.80			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



#### 802.11g + LTE Band 25 (3Mhz)

EUT TEST CONDITION	,	MEASUREMENT DETAIL			
		FREQUENCY RANGE	Below 1000MHz		
INPUT POWER	120Vac 60Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	111.48	29.9 QP	43.5	-13.6	1.99 H	15	47.00	-17.10			
2	142.52	30.4 QP	43.5	-13.1	1.99 H	316	44.60	-14.20			
3	161.92	28.7 QP	43.5	-14.8	1.99 H	297	42.30	-13.60			
4	829.28	30.2 QP	46.0	-15.8	1.99 H	295	32.20	-2.00			
5	937.92	31.4 QP	46.0	-14.6	1.00 H	130	31.40	0.00			
6	955.38	31.1 QP	46.0	-14.9	1.99 H	123	30.70	0.40			
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	113.42	28.0 QP	43.5	-15.5	1.00 V	257	45.10	-17.10			
2	148.34	28.8 QP	43.5	-14.7	1.00 V	10	43.00	-14.20			
3	852.56	29.5 QP	46.0	-16.5	1.00 V	106	31.20	-1.70			
4	889.42	30.7 QP	46.0	-15.3	2.00 V	12	31.80	-1.10			
4 5	889.42 935.98	30.7 QP 30.6 QP	46.0 46.0	-15.3 -15.4	2.00 V 1.00 V	12 10	31.80 30.60	-1.10 0.00			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



# 802.11g + LTE Band 26 (3Mhz)

EUT TEST CONDITION		MEASUREMENT DETAIL			
CHANNEL	IANNEL Channel 6 + 26775 FREQU		Below 1000MHz		
INPUT POWER	120Vac 60Hz	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	119.24	29.6 QP	43.5	-13.9	1.99 H	252	45.90	-16.30			
2	140.58	31.7 QP	43.5	-11.8	1.99 H	314	46.40	-14.70			
3	249.22	29.1 QP	46.0	-16.9	1.00 H	168	43.40	-14.30			
4	875.84	30.1 QP	46.0	-15.9	1.00 H	99	31.30	-1.20			
5	883.60	30.1 QP	46.0	-15.9	1.99 H	13	31.20	-1.10			
6	932.10	30.9 QP	46.0	-15.1	1.99 H	16	31.00	-0.10			
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M				
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
		(abaviii)				(20g.00)		( · · · · /			
1	142.52	31.7 QP	43.5	-11.8	1.00 V	224	45.90	-14.20			
1	142.52 840.92	,	43.5 46.0	-11.8 -16.3	1.00 V 1.00 V		45.90 31.50	, ,			
-		31.7 QP				224		-14.20			
2	840.92	31.7 QP 29.7 QP	46.0	-16.3	1.00 V	224 10	31.50	-14.20 -1.80			
2	840.92 852.56	31.7 QP 29.7 QP 30.0 QP	46.0 46.0	-16.3 -16.0	1.00 V 2.00 V	224 10 133	31.50 31.70	-14.20 -1.80 -1.70			

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



# 802.11g + LTE Band 41 (10Mhz)

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EUT TEST CONDITION		MEASUREMENT DETAIL					
CHANNEL Channel 6 + 39700		FREQUENCY RANGE	Below 1000MHz				
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak				
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui				

		ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)				
1	125.06	30.7 QP	43.5	-12.8	1.99 H	35	46.40	-15.70				
2	142.52	29.1 QP	43.5	-14.4	1.99 H	277	43.30	-14.20				
3	249.22	29.5 QP	46.0	-16.5	1.00 H	164	43.80	-14.30				
4	883.60	30.3 QP	46.0	-15.7	1.99 H	15	31.40	-1.10				
5	916.58	31.7 QP	46.0	-14.3	1.00 H	345	32.10	-0.40				
6	943.74	31.6 QP	46.0	-14.4	1.99 H	60	31.50	0.10				
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M					
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)				
1	113.42	26.8 QP	43.5	-16.7	1.01 V	316	43.90	-17.10				
2	146.40	28.9 QP	43.5	-14.6	1.01 V	15	43.00	-14.10				
		·			4.04.17	292	24.40	-1.80				
3	840.92	29.3 QP	46.0	-16.7	1.01 V	292	31.10	-1.00				
3	840.92 858.38	29.3 QP 30.2 QP	46.0 46.0	-16.7 -15.8	1.01 V 2.00 V	292	31.70	-1.50				
<u> </u>												

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
  - Pre-Amplifier Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value



#### 4.2 CONDUCTED EMISSION MEASUREMENT

# 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

**NOTE**: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 04, 2013	Feb. 03, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 08, 2013	Jul. 07, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

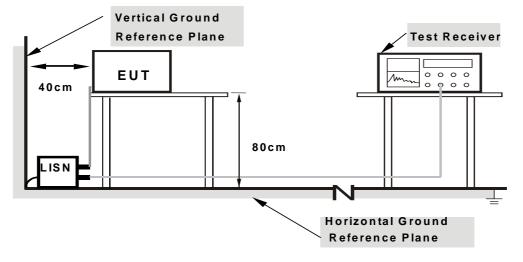
**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



# 4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

# 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



# 4.2.7 TEST RESULTS

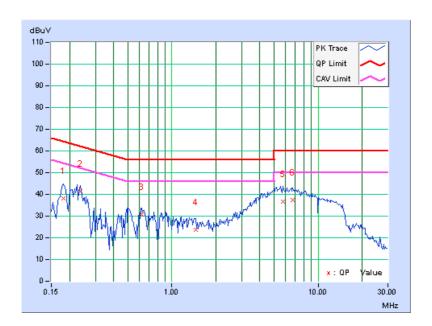
#### **CONDUCTED WORST-CASE DATA:**

#### 802.11g + CDMA BC0

CHANNEL	CH 6 + CH 1013	6dB BANDWIDTH	9kHz
PHASE	Line 1		

	Freq.	Corr.	Reading Value		Corr. Reading Value Emission Level		Limit		Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	0.16	37.94	23.59	38.10	23.75	64.43	54.43	-26.33	-30.68
2	0.23594	0.17	41.47	32.39	41.64	32.56	62.24	52.24	-20.60	-19.68
3	0.62266	0.24	30.55	19.30	30.79	19.54	56.00	46.00	-25.21	-26.46
4	1.45703	0.27	23.44	14.15	23.71	14.42	56.00	46.00	-32.29	-31.58
5	5.75391	0.49	36.35	27.92	36.84	28.41	60.00	50.00	-23.16	-21.59
6	6.72266	0.55	36.79	28.09	37.34	28.64	60.00	50.00	-22.66	-21.36

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

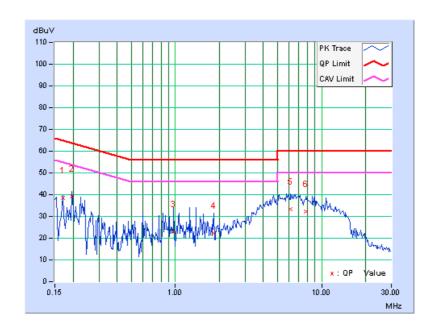




CHANNEL	CH 6 + CH 1013	6dB BANDWIDTH	9kHz	
PHASE	Line 2			

	Freq.	Corr.	Reading Value		<b>Emissio</b>	n Level	Lir	nit	Margin	
No		Factor	[dB	(uV)]	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.17	38.31	27.81	38.48	27.98	64.98	54.98	-26.51	-27.01
2	0.19687	0.17	39.17	28.62	39.34	28.79	63.74	53.74	-24.40	-24.95
3	0.97422	0.25	22.72	9.28	22.97	9.53	56.00	46.00	-33.03	-36.47
4	1.82813	0.27	21.99	10.33	22.26	10.60	56.00	46.00	-33.74	-35.40
5	6.12891	0.46	33.05	23.53	33.51	23.99	60.00	50.00	-26.49	-26.01
6	7.84766	0.52	31.82	22.96	32.34	23.48	60.00	50.00	-27.66	-26.52

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



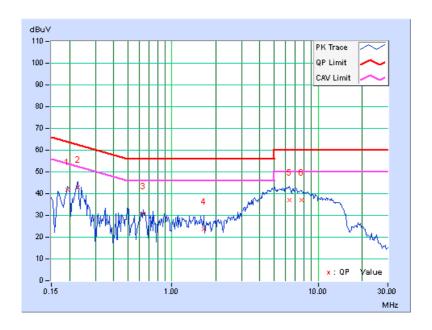


# 802.11g + CDMA BC1

CHANNEL	CH 6 + CH 25	6dB BANDWIDTH	9kHz	
PHASE	Line 1			

	Freq.	Corr.	Reading Value		Emissic	n Level	Lir	nit	Margin	
No		Factor	[dB	(uV)]	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19297	0.16	41.73	33.97	41.89	34.13	63.91	53.91	-22.02	-19.78
2	0.22812	0.17	42.63	32.04	42.80	32.21	62.52	52.52	-19.72	-20.31
3	0.64219	0.24	30.37	19.74	30.61	19.98	56.00	46.00	-25.39	-26.02
4	1.65234	0.28	23.33	16.76	23.61	17.04	56.00	46.00	-32.39	-28.96
5	6.39453	0.53	36.43	28.12	36.96	28.65	60.00	50.00	-23.04	-21.35
6	7.66406	0.60	36.33	27.64	36.93	28.24	60.00	50.00	-23.07	-21.76

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

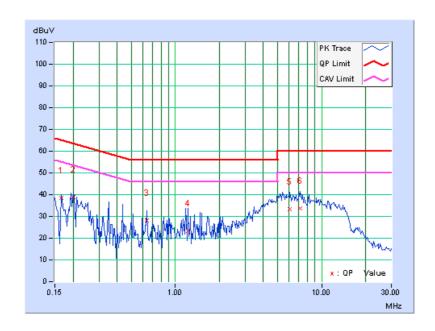




CHANNEL	CH 6 + CH 25	6dB BANDWIDTH	9kHz
PHASE	Line 2		

	Freq.	Corr.	Reading Value		Emissio	n Level	Lir	nit	Margin		
No		Factor	[dB	(uV)]	[dB	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16562	0.17	38.27	25.17	38.44	25.34	65.18	55.18	-26.74	-29.84	
2	0.20078	0.17	38.61	25.83	38.78	26.00	63.58	53.58	-24.80	-27.58	
3	0.64219	0.24	27.73	15.94	27.97	16.18	56.00	46.00	-28.03	-29.82	
4	1.22266	0.26	23.23	11.62	23.49	11.88	56.00	46.00	-32.51	-34.12	
5	6.07422	0.46	32.72	23.38	33.18	23.84	60.00	50.00	-26.82	-26.16	
6	7.17969	0.50	33.08	23.34	33.58	23.84	60.00	50.00	-26.42	-26.16	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



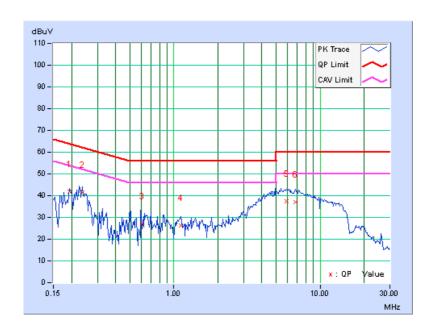


# 802.11g + CDMA BC10

CHANNEL	CH 6 + CH 476	6dB BANDWIDTH	9kHz	
PHASE	Line 1			

	Freq.	Corr.	Reading Value		<b>Emissio</b>	n Level	Limit		Margin	
No		Factor	[dB	(uV)]	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19297	0.16	41.75	33.89	41.91	34.05	63.91	53.91	-22.00	-19.86
2	0.23594	0.17	41.26	31.97	41.43	32.14	62.24	52.24	-20.81	-20.10
3	0.60802	0.24	26.67	15.86	26.91	16.10	56.00	46.00	-29.09	-29.90
4	1.12109	0.25	26.00	15.39	26.25	15.64	56.00	46.00	-29.75	-30.36
5	5.87891	0.50	36.91	28.79	37.41	29.29	60.00	50.00	-22.59	-20.71
6	6.80078	0.55	36.58	28.07	37.13	28.62	60.00	50.00	-22.87	-21.38

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

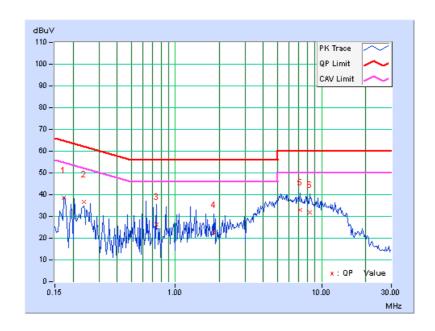




CHANNEL	CH 6 + CH 476	6dB BANDWIDTH	9kHz
PHASE	Line 2		

	Freq.	Corr.	Reading Value		<b>Emissio</b>	n Level	Lir	nit	Margin		
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.17344	0.17	38.43	27.24	38.60	27.41	64.79	54.79	-26.20	-27.39	
2	0.23594	0.18	36.46	25.40	36.64	25.58	62.24	52.24	-25.60	-26.66	
3	0.74375	0.25	25.98	12.40	26.23	12.65	56.00	46.00	-29.77	-33.35	
4	1.82813	0.27	22.41	10.37	22.68	10.64	56.00	46.00	-33.32	-35.36	
5	7.10938	0.49	32.53	23.26	33.02	23.75	60.00	50.00	-26.98	-26.25	
6	8.30469	0.54	31.14	21.77	31.68	22.31	60.00	50.00	-28.32	-27.69	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



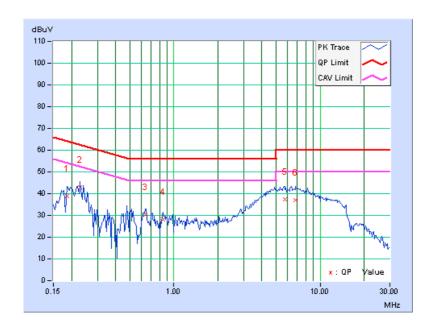


# 802.11g + LTE Band 25 (3MHz)

CHANNEL	CH 6 + CH 26055	6dB BANDWIDTH	9kHz	
PHASE	Line 1			

	Freq.	Corr.	Reading Value		Emissio	n Level	Lir	nit	Margin		
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.18516	0.16	38.68	25.66	38.84	25.82	64.25	54.25	-25.41	-28.43	
2	0.22812	0.17	42.78	32.24	42.95	32.41	62.52	52.52	-19.57	-20.11	
3	0.63828	0.24	30.09	18.88	30.33	19.12	56.00	46.00	-25.67	-26.88	
4	0.84922	0.24	27.79	16.56	28.03	16.80	56.00	46.00	-27.97	-29.20	
5	5.71875	0.49	37.08	28.63	37.57	29.12	60.00	50.00	-22.43	-20.88	
6	6.82031	0.55	36.50	27.97	37.05	28.52	60.00	50.00	-22.95	-21.48	

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

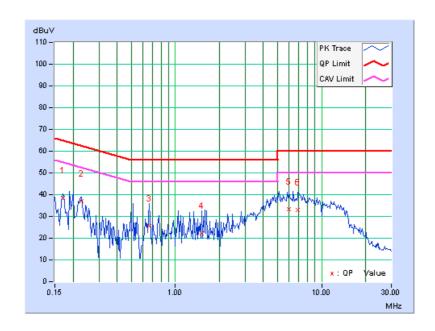




CHANNEL	CH 6 + CH 26055	6dB BANDWIDTH	9kHz
PHASE	Line 2		

	Freq.	Corr.	Reading Value		<b>Emission Level</b>		Limit		Margin	
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.17	38.39	27.69	38.56	27.86	64.98	54.98	-26.43	-27.13
2	0.22812	0.18	36.69	25.80	36.87	25.98	62.52	52.52	-25.65	-26.54
3	0.66172	0.24	25.18	11.77	25.42	12.01	56.00	46.00	-30.58	-33.99
4	1.51172	0.27	21.91	10.43	22.18	10.70	56.00	46.00	-33.82	-35.30
5	5.99219	0.45	32.76	23.34	33.21	23.79	60.00	50.00	-26.79	-26.21
6	6.91406	0.49	32.43	23.76	32.92	24.25	60.00	50.00	-27.08	-25.75

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



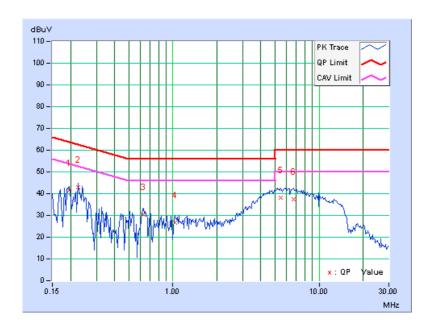


# 802.11g + LTE Band 26 (3MHz)

CHANNEL	CH 6 + CH 26775	6dB BANDWIDTH	9kHz
PHASE	Line 1		

	Freq.	Corr.	Reading Value		<b>Emission Level</b>		Limit		Margin	
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.16	41.20	33.93	41.36	34.09	63.74	53.74	-22.38	-19.65
2	0.22422	0.17	42.88	34.75	43.05	34.92	62.66	52.66	-19.61	-17.74
3	0.63438	0.24	30.17	18.82	30.41	19.06	56.00	46.00	-25.59	-26.94
4	1.03516	0.25	26.48	16.17	26.73	16.42	56.00	46.00	-29.27	-29.58
5	5.48828	0.48	37.58	28.49	38.06	28.97	60.00	50.00	-21.94	-21.03
6	6.69531	0.54	36.83	28.14	37.37	28.68	60.00	50.00	-22.63	-21.32

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

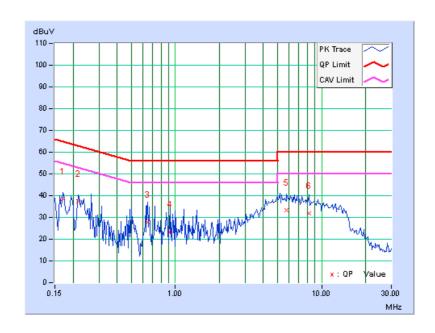




CHANNEL	CH 6 + CH 26775	6dB BANDWIDTH	9kHz
PHASE	Line 2		

	Freq.	Corr.	Reading Value		<b>Emission Level</b>		Limit		Margin	
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.17	38.27	27.55	38.44	27.72	64.98	54.98	-26.55	-27.27
2	0.21641	0.18	37.12	27.60	37.30	27.78	62.96	52.96	-25.66	-25.18
3	0.65000	0.24	27.48	16.40	27.72	16.64	56.00	46.00	-28.28	-29.36
4	0.92344	0.25	23.22	10.84	23.47	11.09	56.00	46.00	-32.53	-34.91
5	5.75781	0.44	32.90	23.06	33.34	23.50	60.00	50.00	-26.66	-26.50
6	8.19922	0.53	31.44	22.10	31.97	22.63	60.00	50.00	-28.03	-27.37

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



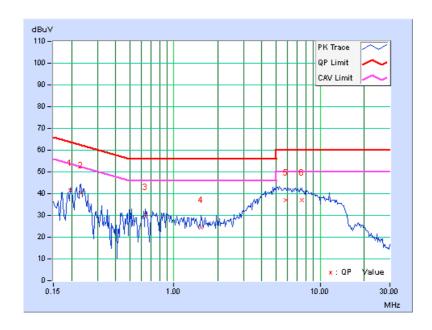


# 802.11g + LTE Band 41 (10MHz)

CHANNEL	CH 6 + CH 39700	6dB BANDWIDTH	9kHz
PHASE	Line 1		

	Freq.	Corr.	Reading Value		<b>Emission Level</b>		Limit		Margin	
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	0.16	41.16	33.95	41.32	34.11	63.74	53.74	-22.42	-19.63
2	0.23203	0.17	40.16	29.94	40.33	30.11	62.38	52.38	-22.05	-22.27
3	0.63828	0.24	30.17	18.94	30.41	19.18	56.00	46.00	-25.59	-26.82
4	1.53906	0.27	24.35	15.71	24.62	15.98	56.00	46.00	-31.38	-30.02
5	5.84766	0.50	36.49	28.14	36.99	28.64	60.00	50.00	-23.01	-21.36
6	7.51563	0.59	36.57	27.78	37.16	28.37	60.00	50.00	-22.84	-21.63

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

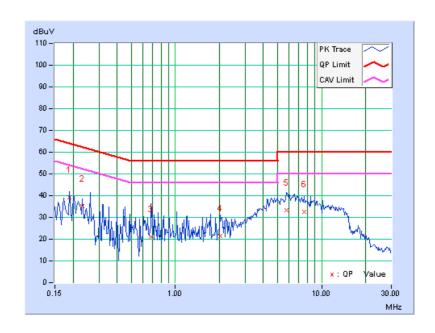




CHANNEL	CH 6 + CH 39700	6dB BANDWIDTH	9kHz
PHASE	Line 2		

	Freq.	Corr.	Reading Value		<b>Emission Level</b>		Limit		Margin	
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	0.17	39.25	26.32	39.42	26.49	64.08	54.08	-24.66	-27.59
2	0.23203	0.18	34.83	23.17	35.01	23.35	62.38	52.38	-27.37	-29.03
3	0.68125	0.24	20.73	9.48	20.97	9.72	56.00	46.00	-35.03	-36.28
4	2.02344	0.28	21.15	9.83	21.43	10.11	56.00	46.00	-34.57	-35.89
5	5.74219	0.44	32.82	23.32	33.26	23.76	60.00	50.00	-26.74	-26.24
6	7.65234	0.51	31.98	23.04	32.49	23.55	60.00	50.00	-27.51	-26.45

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





	A D T
5. PHOTOGRAPHS OF THE TEST CONFIGURATION	
Please refer to the attached file (Test Setup Photo).	

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# 6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Hsin Chu EMC/RF Lab

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

# Hwa Ya EMC/RF/Safety/Telecom Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

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Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

The address and road map of all our labs can be found in our web site also.

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# 7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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