

**CFR 47 FCC PART 22 H
CFR 47 FCC PART 24 E
CFR 47 FCC PART 27
RSS-132, RSS-133, RSS-139**

TEST REPORT

For

LTE Module

MODEL NUMBER: EM060K-GL

REPORT NUMBER: 4791423656.1-RF-1

ISSUE DATE: December 1, 2024

**FCC ID: BEJ24EM060KGL
IC ID: 2703H-24EM060KGL**

Prepared for

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IC: LG ELECTRONICS INC.
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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	December 1, 2024	Initial Issue	

Note:

1. This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E> > < CFR 47 FCC PART 27 >< RSS-132, RSS-133, RSS-139> < when < Simple Acceptance > decision rule is applied.
3. This test report includes radiated test results and conducted power test results due to the change of WCDMA/LTE antenna from the original model I (FCC ID: XMR2022EM060KGL).

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1. ATTESTATION OF TEST RESULTS

Applicant Information

FCC Company Name: LG Electronics USA, Inc.
FCC Address: 111 Sylvan Avenue North Building, Englewood Cliffs New Jersey, 07632 United States
IC Company Name: LG ELECTRONICS INC.
IC Address: 222, LG-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do 451-713 Korea (Rep.)

Manufacturer Information

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EUT Information

EUT Name: LTE Module
Model: EM060K-GL
Sample Received Date: August 29, 2024
Sample Status: Normal
Sample ID: 7603703
Date of Tested: August 29, 2024 to December 1, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS
RSS-132, RSS-133, RSS-139	PASS

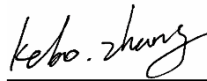
Prepared By:



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Operations Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27, RSS-132, RSS-133, RSS-139

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	LTE Module
Model	EM060K-GL

5.2. TEST CHANNEL CONFIGURATION

Band	Mode	Low	Middle	High
WCDMA Band 2	HSDPA/HSUPA	9262	9400	9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
WCDMA Band 4	HSDPA/HSUPA	1312	1413	1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
WCDMA Band 5	HSDPA/HSUPA	4132	4183	4233
		826.4 MHz	836.4 MHz	846.6 MHz

5.3. MAXIMUM AVERAGE OUTPUT POWER

WCDMA Band2					
Part 24 / RSS-133					
EIRP Limit(W)		2			
Antenna Gain (dBi)		1.9			
Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL. 99	1852.4 ~ 1907.6	23.16	0.321	4.13	4M13F9W
HSDPA		22.70	0.288	4.14	4M14F9W
HSUPA		21.61	0.224	4.12	4M12F9W

WCDMA Band4					
Part 27 / RSS-139					
EIRP Limit(W)		1			
Antenna Gain (dBi)		-2.0			
Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL. 99	1712.4 ~ 1752.6	22.87	0.122	4.13	4M13F9W
HSDPA		22.61	0.115	4.14	4M14F9W
HSUPA		21.17	0.083	4.13	4M13F9W

WCDMA Band5					
Part 22, RSS-133					
EIRP Limit(W)		1			
Antenna Gain (dBi)		-1.1			
Mode	Frequency Range (MHz)	Conducted Average power (dBm)	EIRP (W)	99% OBW (MHz)	Emission Designator
REL. 99	826.4 ~ 846.6	22.85	0.091	4.13	4M13F9W
HSDPA		21.87	0.073	4.13	4M13F9W
HSUPA		21.65	0.069	4.13	4M13F9W

5.4. WORST-CASE CONFIGURATION AND MODE

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was the worst-case orientation.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There were no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz were tested the highest transmitting power channel and the worse configuration.

For WCDMA, HSDPA worst results are shown in test report.

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Antenna Type	Remark
Main	FPC	MAIN Antenna
Div.	FPC	DIV Antenna

Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Main	WCDMA Band 2	FPC	1.9
	WCDMA Band 4	FPC	-2.0
	WCDMA Band 5	FPC	-1.1

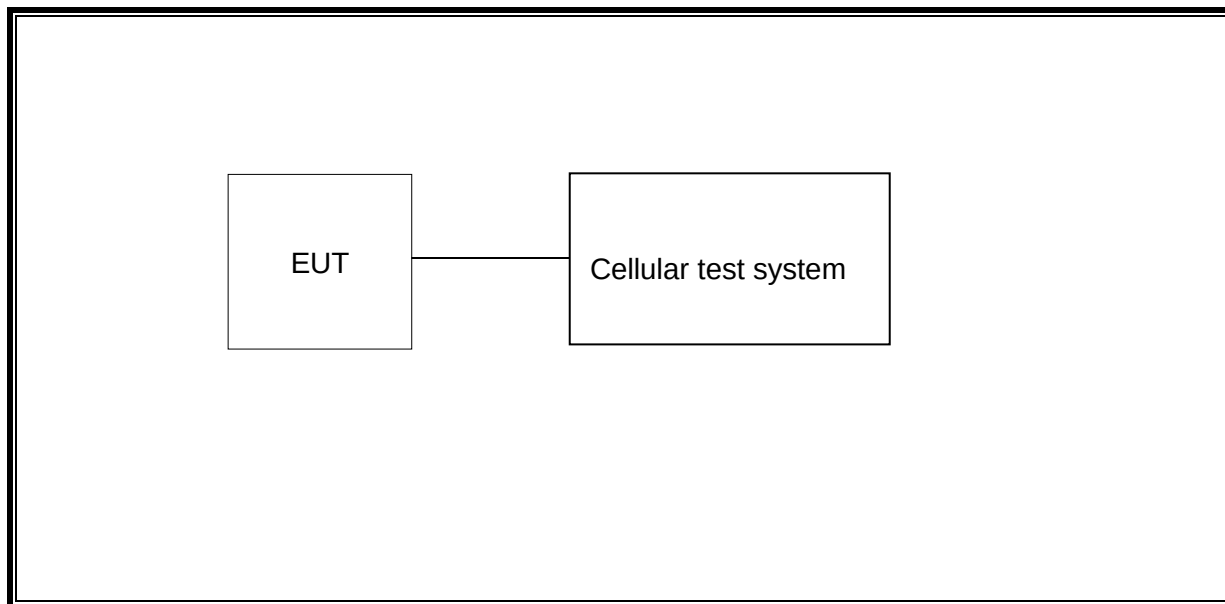
Note:

1. The value of the antenna gain was declared by customer.
2. There are two antenna manufacturers, the antenna model are different, only a pair of one of the two model is used at a time.

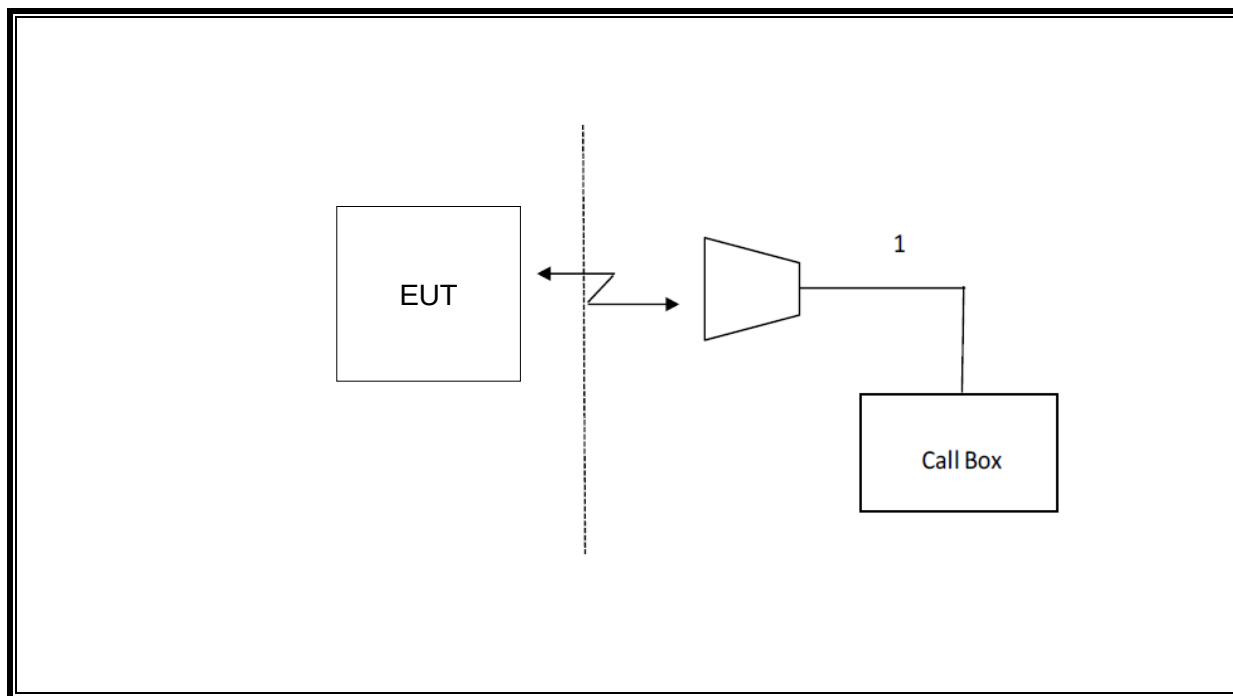
Band	Transmit and Receive Mode	Description
WCDMA Band 2	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
WCDMA Band 4	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
WCDMA Band 5	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	R&S	FSV40	S422060001	Sep. 28, 2024	Sep. 27, 2025
☒	Wideband Radio Communication Tester	R&S	CMW500	155523	Sep. 28, 2024	Sep. 27, 2025
☒	DC Power Supply	Array	3662A	A1512015	Sep. 28, 2024	Sep. 27, 2025
Software						
Used	Description		Manufacturer	Name		Version
☒	Tonsend Cellular Test System		Tonsend	JS1120 RF Auto Test System		3.1.46
Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep. 28, 2024	Sep. 27, 2025
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jun. 28, 2024	Jun. 27, 2027
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jun. 28, 2024	Jun. 27, 2027
☒	Preamplifier	HP	8447D	2944A09099	Sep. 28, 2024	Sep. 27, 2025
☒	EMI Measurement Receiver	R&S	ESR26	101377	Sep. 28, 2024	Sep. 27, 2025
☒	Horn Antenna	TDK	HRN-0118	130939	April 29, 2022	April 30, 2025
☒	Horn Antenna	Schwarzbeck	BBHA9170	856	Feb 28, 2022	Feb 28, 2025
☒	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep. 28, 2024	Sep. 27, 2025
☒	Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep. 28, 2024	Sep. 27, 2025
☒	Loop antenna	Schwarzbeck	1519B	00008	Sep. 28, 2024	Sep. 27, 2025
☒	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep. 28, 2024	Sep. 27, 2025
Software						
Used	Description		Manufacturer	Name		Version
☒	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1

7. ANTENNA TERMINAL TEST RESULTS

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50

LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6

$ERP/ EIRP = P_{Meas} + GT - LC$

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.1°C	Relative Humidity	63.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

RESULTS

WCDMA B2

Band II		Channel No.	Channel No.	Channel No.
		9262	9400	9538
		Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
		1852.4	1880	1907.6
WCDMA	12.2kbps RMC	22.78	23.16	22.80
HSDPA	Subtest 1	21.20	21.44	21.15
	Subtest 2	22.11	22.06	22.70
	Subtest 3	21.66	21.58	22.18
	Subtest 4	21.61	21.48	22.13
HSUPA	Subtest 1	21.35	21.61	21.31
	Subtest 2	20.84	21.02	20.73
	Subtest 3	21.49	21.59	21.33
	Subtest 4	21.00	21.43	20.92
	Subtest 5	21.04	21.29	20.97

WCDMA B4

Band IV		Channel No.	Channel No.	Channel No.
		1312	1413	1513
		Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
		1712.4	1732.6	1752.6
WCDMA	12.2kbps RMC	22.62	22.87	22.86
HSDPA	Subtest 1	20.62	20.92	20.86
	Subtest 2	22.10	22.45	22.61
	Subtest 3	21.54	21.92	22.03
	Subtest 4	21.56	21.86	21.92
HSUPA	Subtest 1	20.80	21.12	21.17
	Subtest 2	20.20	20.55	20.59
	Subtest 3	20.73	21.07	21.08
	Subtest 4	20.29	20.67	20.71
	Subtest 5	20.68	21.05	21.03

WCDMA B5

Band V		Channel No.	Channel No.	Channel No.
		4132	4183	4233
		Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
		826.4	836.4	846.6
WCDMA	12.2kbps RMC	22.74	22.80	22.85
HSDPA	Subtest 1	20.92	21.35	21.11
	Subtest 2	21.87	21.74	21.81
	Subtest 3	21.37	21.25	21.17
	Subtest 4	21.33	21.26	21.12
HSUPA	Subtest 1	21.11	21.42	21.65
	Subtest 2	20.55	20.81	20.98
	Subtest 3	21.02	21.26	21.37
	Subtest 4	20.72	20.85	21.08
	Subtest 5	20.99	21.23	21.37

8. RADIATED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53.

LIMIT

Part §22.917(a), §24.238(a), §27.53(h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

According to the C 63.26-2015 section 5.5.2.2.3

Below 1GHz test procedure as below:

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

Above 1GHz test procedure as below:

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The height scan of the measurement antenna shall be varied from 1 m to 4 m in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When using the direct field strength method and the EUT is manipulated through three different orientations, then the scan height range of the measurement antenna is limited to 2.5 m, or 0.5 m above the top of the EUT, whichever is higher.

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
- d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

So, from d)

The measuring distance is usually at 3m, then $20 \times \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$= P(W) - [43 + 10\log(P)] \text{ (dB)}$

$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$

$= -13 \text{ dBm}$.

$\text{EIRP [dBm]} = E \text{ [dB}\mu\text{V/m]} - 95.25$

$E \text{ [dB}\mu\text{V/m]} = 95.25 + \text{EIRP [dBm]}$

$E \text{ [dB}\mu\text{V/m]} = 82.25$

NOTE 1: Radiated spurious emissions were investigated below 30 MHz, 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz – 1 GHz.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.

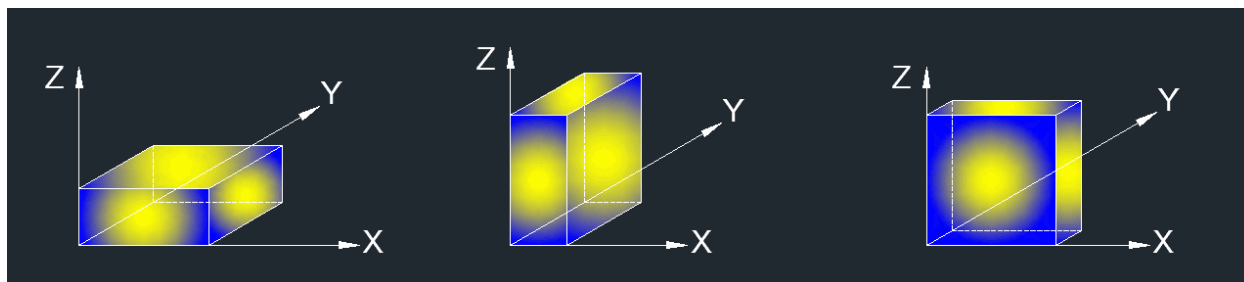
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

NOTE 2: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

NOTE 3: All the test modes have been tested, only the worst data record in the report.

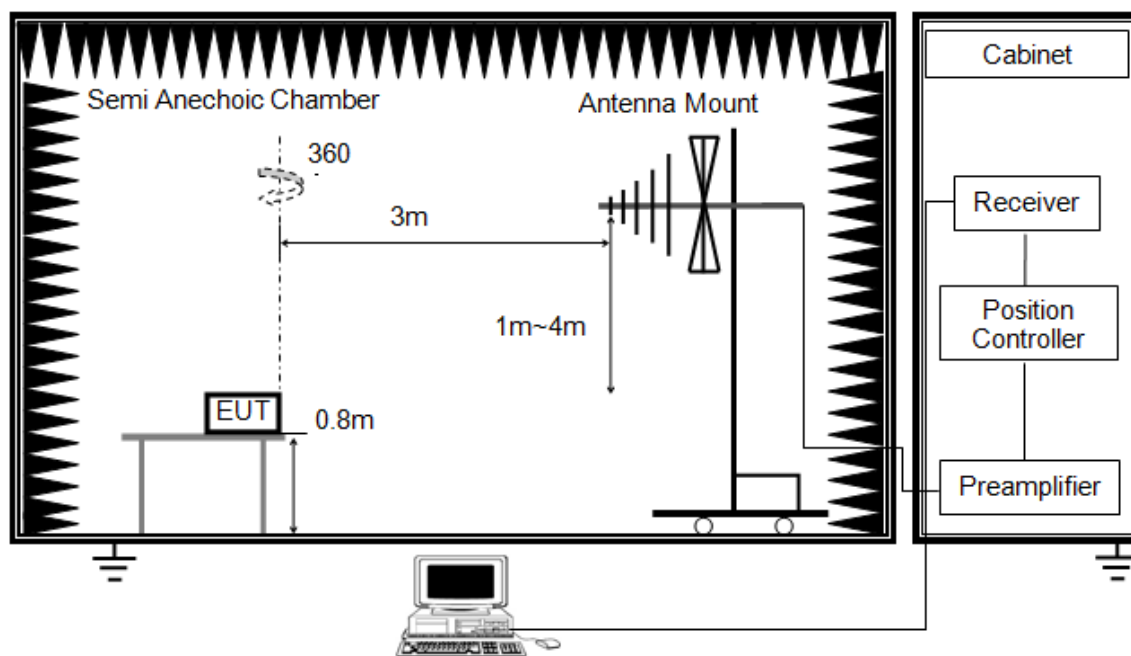
Note 4: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

X axis, Y axis, Z axis positions:

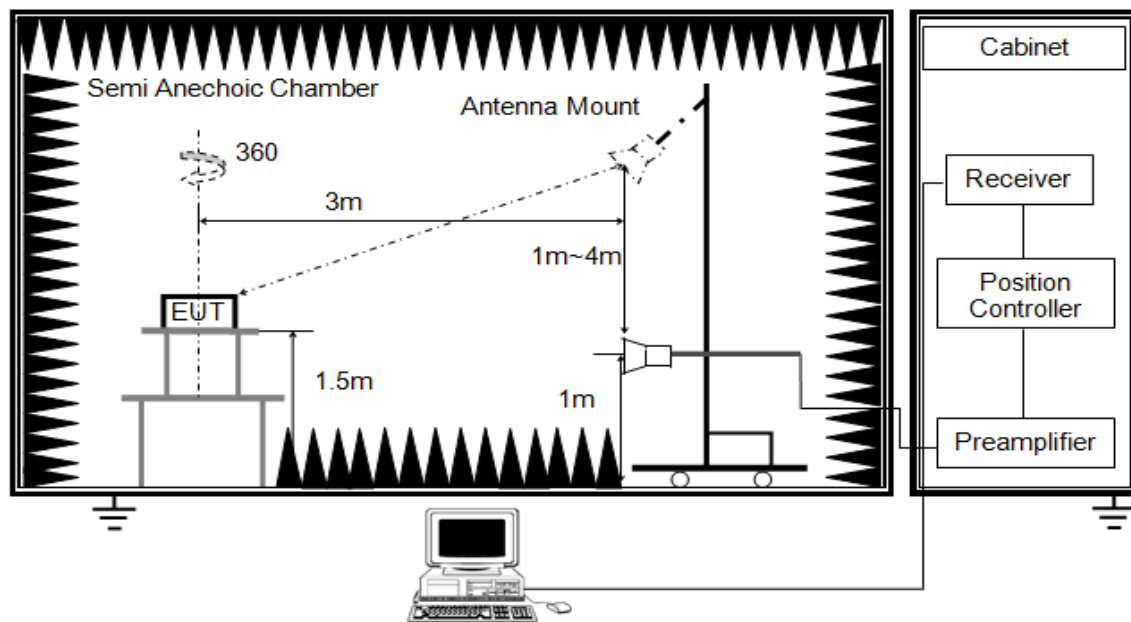


TEST SETUP

Test Setup for Below 1 GHz



Test Setup for Above 1 GHz



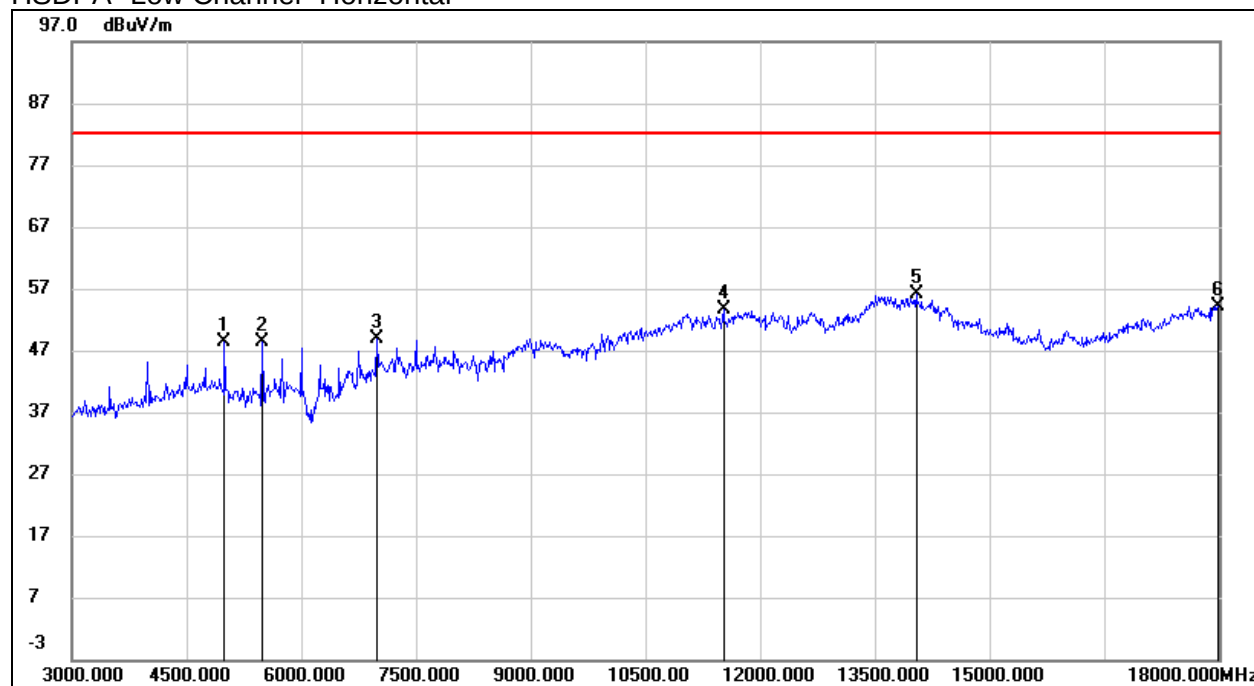
TEST ENVIRONMENT

Temperature	24.3°C	Relative Humidity	61%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

RESULTS

WCDMA Band 2

HSDPA- Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	48.05	0.43	48.48	82.25	-33.77	peak
2	5490.000	47.64	0.84	48.48	82.25	-33.77	peak
3	6990.000	42.16	6.63	48.79	82.25	-33.46	peak
4	11520.000	36.88	16.65	53.53	82.25	-28.72	peak
5	14040.000	34.33	21.79	56.12	82.25	-26.13	peak
6	17985.000	28.50	25.60	54.10	82.25	-28.15	peak

HSDPA- Low Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	47.29	0.43	47.72	82.25	-34.53	peak
2	6990.000	40.93	6.63	47.56	82.25	-34.69	peak
3	10005.000	40.22	12.02	52.24	82.25	-30.01	peak
4	11820.000	37.06	17.47	54.53	82.25	-27.72	peak
5	13845.000	34.25	21.62	55.87	82.25	-26.38	peak
6	17955.000	29.18	25.42	54.60	82.25	-27.65	peak

HSDPA- Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	47.37	0.43	47.80	82.25	-34.45	peak
2	5490.000	47.11	0.84	47.95	82.25	-34.30	peak
3	6990.000	42.37	6.63	49.00	82.25	-33.25	peak
4	11775.000	37.86	17.35	55.21	82.25	-27.04	peak
5	13845.000	34.26	21.62	55.88	82.25	-26.37	peak
6	17985.000	29.51	25.60	55.11	82.25	-27.14	peak

HSDPA- Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	47.52	0.43	47.95	82.25	-34.30	peak
2	5490.000	46.40	0.84	47.24	82.25	-35.01	peak
3	7500.000	42.29	6.33	48.62	82.25	-33.63	peak
4	10005.000	40.90	12.02	52.92	82.25	-29.33	peak
5	13995.000	32.93	21.95	54.88	82.25	-27.37	peak
6	17970.000	28.61	25.51	54.12	82.25	-28.13	peak

HSDPA- High Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	45.91	0.43	46.34	82.25	-35.91	peak
2	5490.000	45.88	0.84	46.72	82.25	-35.53	peak
3	6990.000	40.62	6.63	47.25	82.25	-35.00	peak
4	11835.000	35.36	17.51	52.87	82.25	-29.38	peak
5	13860.000	31.45	21.67	53.12	82.25	-29.13	peak
6	17625.000	28.70	23.47	52.17	82.25	-30.08	peak

HSDPA- High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	47.09	0.43	47.52	82.25	-34.73	peak
2	6990.000	43.09	6.63	49.72	82.25	-32.53	peak
3	10005.000	39.84	12.02	51.86	82.25	-30.39	peak
4	11820.000	35.00	17.47	52.47	82.25	-29.78	peak
5	13590.000	32.13	21.09	53.22	82.25	-29.03	peak
6	17970.000	26.83	25.51	52.34	82.25	-29.91	peak

WCDMA Band 4

HSDPA- Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	48.32	0.43	48.75	82.25	-33.50	peak
2	5490.000	46.93	0.84	47.77	82.25	-34.48	peak
3	6990.000	43.22	6.63	49.85	82.25	-32.40	peak
4	10005.000	39.76	12.02	51.78	82.25	-30.47	peak
5	13590.000	33.49	21.09	54.58	82.25	-27.67	peak
6	17970.000	26.47	25.51	51.98	82.25	-30.27	peak

HSDPA- Low Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	48.08	0.43	48.51	82.25	-33.74	peak
2	6000.000	45.20	2.25	47.45	82.25	-34.80	peak
3	7500.000	40.18	6.33	46.51	82.25	-35.74	peak
4	10005.000	40.40	12.02	52.42	82.25	-29.83	peak
5	14010.000	31.48	21.93	53.41	82.25	-28.84	peak
6	17985.000	26.89	25.60	52.49	82.25	-29.76	peak

HSDPA- Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	46.82	0.43	47.25	82.25	-35.00	peak
2	5490.000	45.38	0.84	46.22	82.25	-36.03	peak
3	7500.000	38.90	6.33	45.23	82.25	-37.02	peak
4	10005.000	36.35	12.02	48.37	82.25	-33.88	peak
5	13980.000	32.17	21.92	54.09	82.25	-28.16	peak
6	17700.000	29.28	23.91	53.19	82.25	-29.06	peak

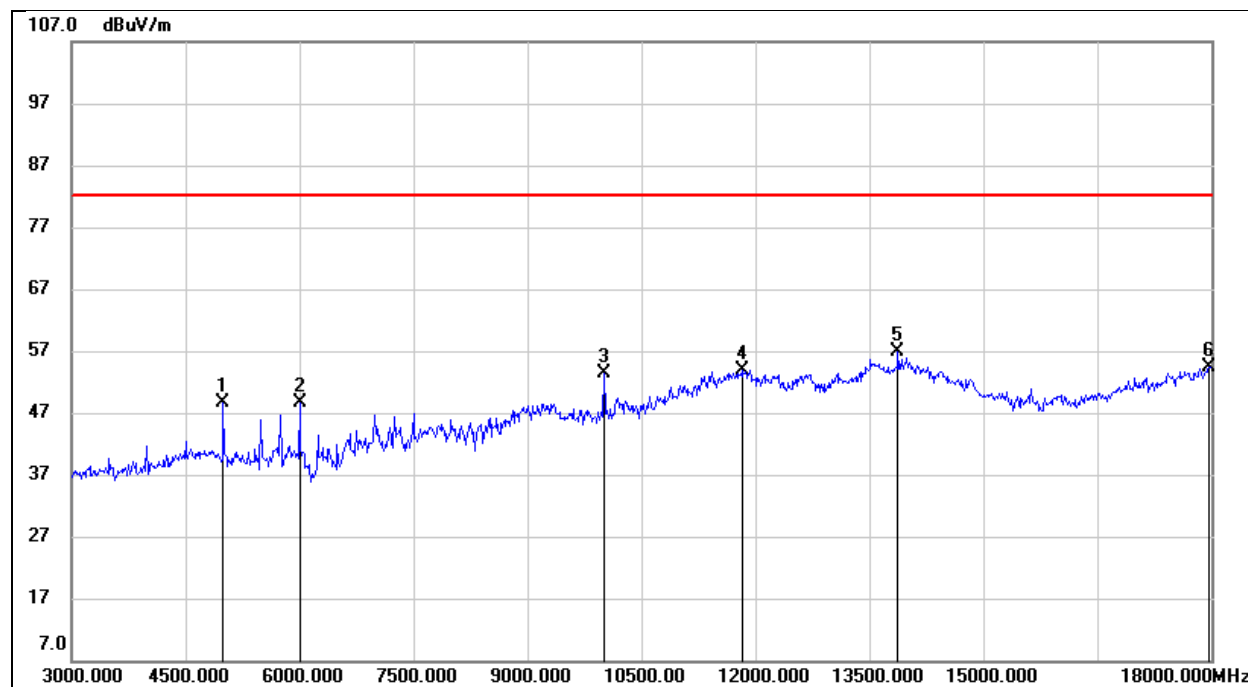
HSDPA- Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	44.43	0.43	44.86	82.25	-37.39	peak
2	6000.000	43.10	2.25	45.35	82.25	-36.90	peak
3	6990.000	37.05	6.63	43.68	82.25	-38.57	peak
4	10005.000	35.41	12.02	47.43	82.25	-34.82	peak
5	13545.000	31.78	20.99	52.77	82.25	-29.48	peak
6	16845.000	30.38	20.20	50.58	82.25	-31.67	peak

HSDPA- High Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	46.86	0.43	47.29	82.25	-34.96	peak
2	5490.000	44.45	0.84	45.29	82.25	-36.96	peak
3	10005.000	37.60	12.02	49.62	82.25	-32.63	peak
4	12240.000	33.54	17.79	51.33	82.25	-30.92	peak
5	13545.000	32.01	20.99	53.00	82.25	-29.25	peak
6	17955.000	27.25	25.42	52.67	82.25	-29.58	peak

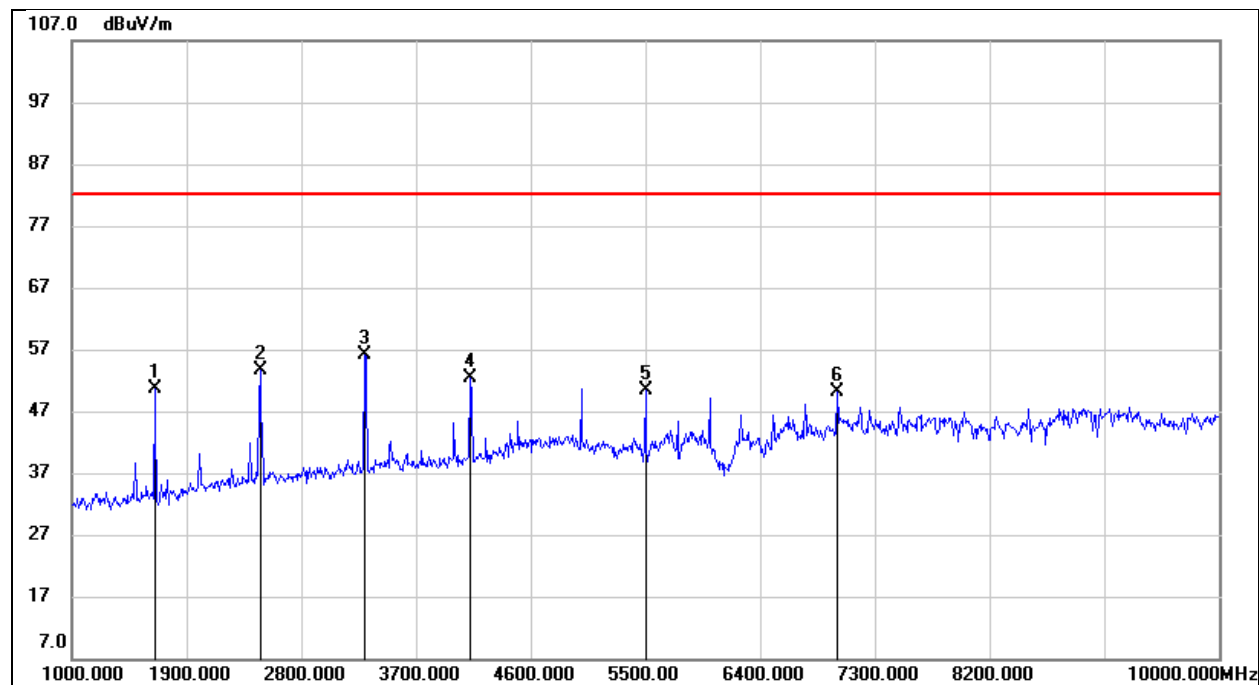
HSDPA- High Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	48.25	0.43	48.68	82.25	-33.57	peak
2	6000.000	46.47	2.25	48.72	82.25	-33.53	peak
3	10005.000	41.25	12.02	53.27	82.25	-28.98	peak
4	11820.000	36.30	17.47	53.77	82.25	-28.48	peak
5	13875.000	35.10	21.70	56.80	82.25	-25.45	peak
6	17970.000	28.94	25.51	54.45	82.25	-27.80	peak

WCDMA Band 5

HSDPA- Low Channel- Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1648.000	62.90	-12.22	50.68	82.25	-31.57	peak
2	2476.000	62.31	-8.61	53.70	82.25	-28.55	peak
3	3295.000	62.35	-6.32	56.03	82.25	-26.22	peak
4	4123.000	56.29	-3.90	52.39	82.25	-29.86	peak
5	5500.000	49.86	0.42	50.28	82.25	-31.97	peak
6	7003.000	44.00	6.19	50.19	82.25	-32.06	peak

HSDPA- Low Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1648.000	60.56	-12.22	48.34	82.25	-33.91	peak
2	2476.000	59.99	-8.61	51.38	82.25	-30.87	peak
3	3295.000	59.12	-6.32	52.80	82.25	-29.45	peak
4	4123.000	53.25	-3.90	49.35	82.25	-32.90	peak
5	4996.000	47.37	-0.17	47.20	82.25	-35.05	peak
6	7498.000	42.22	5.69	47.91	82.25	-34.34	peak

HSDPA- Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1675.000	59.42	-12.13	47.29	82.25	-34.96	peak
2	2512.000	56.78	-8.45	48.33	82.25	-33.92	peak
3	3349.000	57.63	-6.19	51.44	82.25	-30.81	peak
4	4186.000	54.09	-3.61	50.48	82.25	-31.77	peak
5	5500.000	47.82	0.42	48.24	82.25	-34.01	peak
6	7498.000	41.65	5.69	47.34	82.25	-34.91	peak

HSDPA- Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1675.000	61.06	-12.13	48.93	82.25	-33.32	peak
2	2512.000	55.54	-8.45	47.09	82.25	-35.16	peak
3	3349.000	59.57	-6.19	53.38	82.25	-28.87	peak
4	4186.000	50.98	-3.61	47.37	82.25	-34.88	peak
5	4996.000	44.23	-0.17	44.06	82.25	-38.19	peak
6	7498.000	39.47	5.69	45.16	82.25	-37.09	peak

HSDPA- High Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1684.000	60.30	-12.10	48.20	82.25	-34.05	peak
2	2539.000	50.51	-8.37	42.14	82.25	-40.11	peak
3	3385.000	58.31	-6.11	52.20	82.25	-30.05	peak
4	4240.000	47.13	-3.35	43.78	82.25	-38.47	peak
5	5500.000	45.69	0.42	46.11	82.25	-36.14	peak
6	7003.000	40.96	6.19	47.15	82.25	-35.10	peak

HSDPA- High Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1684.000	59.76	-12.10	47.66	82.25	-34.59	peak
2	2539.000	54.25	-8.37	45.88	82.25	-36.37	peak
3	3376.000	58.76	-6.13	52.63	82.25	-29.62	peak
4	4240.000	50.75	-3.35	47.40	82.25	-34.85	peak
5	6004.000	44.44	1.87	46.31	82.25	-35.94	peak
6	7003.000	39.11	6.19	45.30	82.25	-36.95	peak

END OF REPORT