

FCC TEST REPORT

47 CFR FCC Part 15 Subpart B

File administrators Martin Ao

Test Engineer Martin Ao

Morein

Report Reference No.....: MWR150600406 FCC ID.....:: 2AFAUTIS001

Compiled by

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Date of issue....: Jul 09, 2015

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Nanshan, Shenzhen, China

Applicant's name..... **HGR HERMANOS GARCIA ROMERO S.A.S**

CARRERA 20 No. 13 - 39 off. 212 BOGOTA, COLOMBIA Address....:

DC 110111

Test specification....:

Standard....... 47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2009

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Test item description....: Mobile Phone

Trade Mark....: **Tigers**

Manufacturer.....: WASAM TECHNOLOGY (SHEN ZHEN) CO.,LTD.

Model/Type reference....: TIS001

Listed Models: N/A

Rating...... DC 3.70V

: Trademark: Tigers Adapter information

INPUT:AC 100-240V 50/60Hz 0.15A

OUTPUT: DC 5.0V.1A

Hardware version..... F1H-V1.1

Software version bestsonny.f1h.w500c.V1.0.20140910

Result..... PASS

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TEST REPORT

Test Report No. :	MWR150600406	Jul 09, 2015
	191991X 130000400	Date of issue

Equipment under Test : Mobile Phone

Model /Type : TIS001

Listed Models : N/A

Address

Applicant : HGR HERMANOS GARCIA ROMERO S.A.S

Address : CARRERA 20 No. 13 - 39 off. 212 BOGOTA, COLOMBIA

DC 110111

Manufacturer WASAM TECHNOLOGY (SHEN ZHEN) CO.,LTD.

B,F Building, (Hengqiang Industrial Park), Bogang Taifeng

Industrial Zone, Shajing Town, Bao' an District,

Shenzhen, China

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2009 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	May 20, 2015
Testing commenced on	:	May 21, 2015
Testing concluded on	:	Jul 09, 2015

2.2. Product Description

The **HGR HERMANOS GARCIA ROMERO S.A.S** 's Model: TIS001 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	Mobile Phone			
Model Number	TIS001			
Modilation Type	GMSK for GSM/GPRS,8-PSK for EDGE,QPSK for UMTS			
Antenna Type	Internal			
UMTS Operation Frequency Band	Device supported UMTS FDD Band II and FDD Band V			
	IEEE 802.11b:2412-2462MHz			
WLAN FCC Operation frequency	IEEE 802.11g:2412-2462MHz			
WEART 66 Operation requeries	IEEE 802.11n HT20:2412-2462MHz			
	IEEE 802.11n HT40:2422-2452MHz			
BT FCC Operation frequency	2402MHz-2480MHz			
HSDPA Release Version	Release 7			
HSUPA Release Version	Release 6			
DC-HSUPA Release Version	Not Supported			
WCDMA Release Version	R99			
	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)			
WLAN FCC Modulation Type	IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)			
WE WY GO Woodington Type	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)			
	IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)			
BT Modulation Type	GFSK (BT4.0 BLE)/GFSK,8DPSK,π/4DQPSK(BT 3.0+EDR)			
Hardware version	F1H-V1.1			
Software version	bestsonny.f1h.w500c.V1.0.20140910			
GPS function	Supported			
WLAN	Supported 802.11b/802.11g/802.11n			
Bluetooth	Supported BT4.0 BLE /BT 3.0+EDR			
GSM/EDGE/GPRS	Supported GSM/GPRS/EDGE			
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/PCS1900:Power Class 1			
GSM/EDGE/GPRS Operation	GSM850 :824.2MHz-848.8MHz/PCS1900:1852.4MHz-1907.6MHz			
Frequency				
GSM/EDGE/GPRS Operation	GSM850/PCS1900/GPRS850/ GPRS 1900/EDGE850/EDGE1900			
Frequency Band				
GSM Release Version	R99			
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12			
Extreme temp. Tolerance	-30°C to +50°C			
Extreme vol. Limits	3.40VDC to 4.20 VDC (nominal: 3.70 VDC)			
GPRS operation mode	Class B			
	GSM850:-2.92dBi,GSM1900:-0.07dBi			
Ant Gain	WCDMA Band 850: -2.92dBi WCDMA1900: GSM1900:-0.07dBi			
	WIFI/BT:-0.58 dBi			

Note

- 1.. The EUT is Dual SIM, But The two SIMs cannot use synchronization and only one can use for each time.
- 2. 3D and ALS+PS sensor used by this device and ,no power reduction during use.

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2.3. Equipment under Test

Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank bel	ow)

DC 3.70V

2.4. Short description of the Equipment under Test (EUT)

2.4.1 General Description

TIS001 is subscriber equipment in the WCDMA/GSM system. The HSPA/UMTS frequency band is Band II, Band V; The GSM/GPRS/EDGE frequency and includes GSM850 and GSM900 and DCS1800 and PCS1900, but only Band II and Band V and GSM850 and PCS1900 bands test data included in this report. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS and WIFI etc. Externally it provides micro SD card interface, earphone port (to provide voice service) and SIM card interface. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

2.4.2 Test Environments

NOTE: The values used in the test report maybe stringent than the declared.

Environment Parameter	Selected Values During Tests				
NTNV	Temperature	Voltage	Relative Humidity		
	Ambient	3.70VDC	Ambient		

2.5. EUT operation mode

The EUT has been tested under typical operating condition.

2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID**: **2AFAUTIS001** filling to comply with the FCC Part 15, Subpart B Rules.

2.7. Modifications

No modifications were implemented to meet testing criteria.

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2.8. EUT configuration

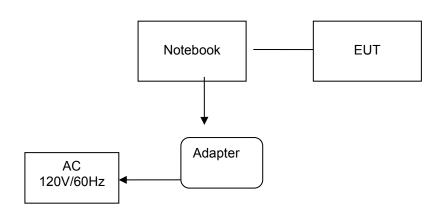
The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer

0	Power Cable	Length (m):	1
		Shield :	1
		Detachable :	1
0	Multimeter	Manufacturer:	1
		Model No. :	1

2.9. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/unshielde d	Notes
1	Notebook	DELL	INS14MD -1328S	1RNN42X	1	/	DOC
5	USB Cable (EUT to PC)	Genshuo	USB 2.0	N/A	0.60m	unshielded	N/A
7	Power line	/	/	N/A	1.00m	unshielded	N/A
8	Adapter	HIPRO	DELL- A0904A3	F1120709016S40 4	1.50m	unshielded	DOC

2.10. NOTE

1. The EUT is a Mobile Phone with WCDMA/GSM/GPRS/EDGE, WiFi and Bluetooth function, The functions of the EUT listed as below:

	Test Standards	Reference Report
GSM/GPRS/EDGE	FCC Part 22/FCC Part 24	MWR150600401
WCDMA	FCC Part 22/FCC Part 24	MWR150600402
Bluetooth	FCC Part 15 C 15.247	MWR150600403
BLE	FCC Part 15 C 15.247	MWR150600404
WiFi	FCC Part 15 C 15.247	MWR150600405
USB Port	FCC Part 15 B	MWR150600406
SAR	FCC Part 2 §2.1093	MWR150600407

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3. <u>TEST ENVIRONMENT</u>

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, Dec 19, 2013

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. National Digital Electronic Product Testing Center quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTL Testing Technology Co., Ltd. National Digital Electronic Product Testing Center is reported:

Test	Test Range		Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Equipments Used during the Test

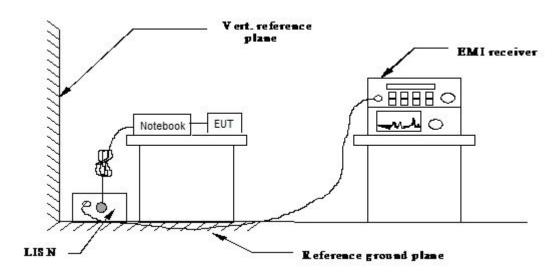
AC P	AC Power Conducted Emission							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due		
					2014/07/02	2015/07/01		
1	Artificial Mains	Rohde&Schwarz	ENV216	101316	2015/06/02	2016/06/01		
	EMI Test Receiver	Rohde&Schwarz		103710	2014/07/02	2015/07/01		
2			ESCI3		2015/06/02	2016/06/01		
_	Pulse Limiter	Com-Power	LIT-153	53226	2014/07/01	2015/06/30		
3					2015/06/02	2016/06/01		
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A	N/A		
5	Coaxial Cables	HUBER+SUHNER	SUCOFLEX 104PEA-3M (9KHz-26.5G)	3m	2014/10/19	2015/10/18		

Radia	ated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
1	Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2015/05/19	2016/05/18
2					2014/07/02	2015/07/01
	EMI TEST Receivcer	Rohde&Schwarz	ESCI3	103710	2015/06/02	2016/06/01
3	EMI TEST Software	Audix	E3	N/A	N/A	N/A
4	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A	N/A
5	HORN ANTENNA	Sunol Sciences Corp.	DRH-118	A062013	2015/05/19	2016/05/18
6	Amplifer	HP	8447D	3113A07663	2015/05/19	2016/05/18
7	Preamplifier	HP	8349B	3155A00882	2015/05/19	2016/05/18
8	Amplifer	Compliance Direction systems	PAP1-4060	129	2015/05/19	2016/05/18
9	TURNTABLE	MATURO	TT2.0		N/A	N/A
10	ANTENNA MAST	MATURO	TAM-4.0-P		N/A	N/A
11	Horn Antenna	SCHWARZBECK	BBHA9170	25849	2015/05/19	2016/05/18
12	Spectrum Analyzer	Rohde&Schwarz	FSU26	201148	2015/05/20	2016/05/19
			SUCOFLEX			
13	Coaxial Cables	HUBER+SUHNER	104PEA-10M	10m	2014/10/19	2015/10/18
			(9KHz-26.5G)			
			SUCOFLEX			
14	Coaxial Cables	HUBER+SUHNER	104PEA-3M	3m	2014/10/19	2015/10/18
			(9KHz-26.5G)			

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2. Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4. The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.

CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

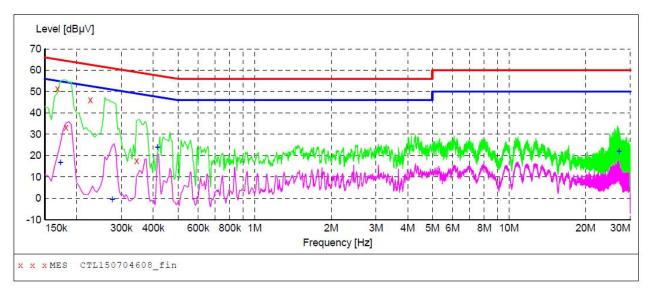
Eroguenov	Maximum RF Line Voltage (dBμV)						
Frequency	CLA	CLASS A		SS B			
(MHz)	Q.P.	Ave.	Q.P.	Ave.			
0.15 - 0.50	79	66	66-56*	56-46*			
0.50 - 5.00	73	60	56	46			
5.00 - 30.0	73	60	60	50			

^{*} Decreasing linearly with the logarithm of the frequency

TEST RESULTS

Note: Mode: Data transmission (connected PC)

SCAN TABLE: "Voltage (9K-30M) FIN"
Short Description: 150K-30M Voltage



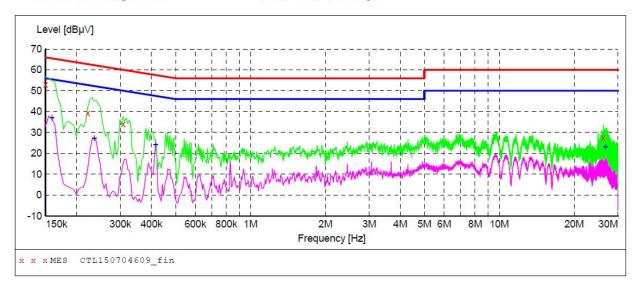
MEASUREMENT RESULT: "CTL150704608_fin"

7/4/2015	5:361	PM						
Freque	ncy	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dΒμV	dB	dBµV	dB			
0.168	001	51.30	10.2	65	13.8	QP	L1	GND
0.181	501	33.20	10.2	64	31.2	QP	L1	GND
0.226	501	46.00	10.2	63	16.6	QP	L1	GND
0.343	501	17.70	10.2	59	41.4	QP	L1	GND

MEASUREMENT RESULT: "CTL150704608_fin2"

7/4/2015	5:361	PM						
Freque	ncy MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172	501	16.80	10.2	55	38.0	AV	L1	GND
0.276	001	-0.60	10.2	51	51.5	AV	L1	GND
0.415	501	24.00	10.2	48	23.5	AV	L1	GND
27.073	501	22.00	11.2	50	28.0	AV	L1	GND

SCAN TABLE: "Voltage (9K-30M) FIN" Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "CTL150704609_fin"

7/4/2015	5:49	PM						
Freque	ency	Level	Transd	Limit	Margin	Detector	Line	PE
-	MHZ	dBuV	dB	dBuV	dB			
0.150	0001	53.00	10.2	66	13.0	OP	N	GND
0.222	2001	39.30	10.2	63	23.4	ÕP	N	GND
0.307	7501	34.10	10.2	60	25.9	ÕP	N	GND
26.232	2001	27.60	11.2	60	32.4	ÕР	N	GND

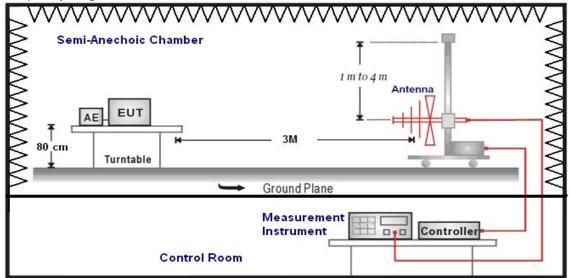
MEASUREMENT RESULT: "CTL150704609_fin2"

•	7/4/2015 5:49	PM						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dΒμV	dB			
	0.159001	37.00	10.2	56	18.5	AV	N	GND
	0.235501	27.30	10.2	52	25.0	AV	N	GND
	0.415501	24.20	10.2	48	23.3	AV	N	GND
	26.713501	23.00	11.2	50	27.0	AV	N	GND

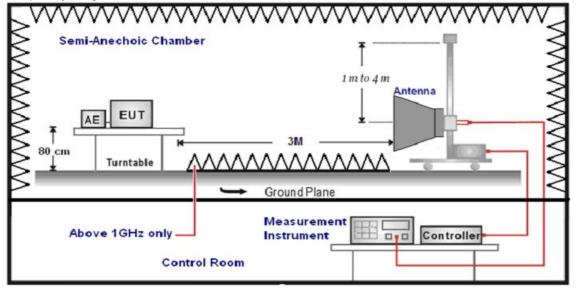
4.2. Radiated Emission Test

TEST CONFIGURATION

Frequency range: 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- 7. Repeat above procedures until the measurements for all frequencies are complete.
- 8. The maximum operation frequency was 533MHz, the radiated emission test frequency from 30 MHz to 18GHz

9. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3

10. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
30MHz-1GHz	MHz-1GHz RBW=120KHz/VBW=1000KHz,Sweep time=Auto	
	Peak Value: RBW=1MHz/VBW=3MHz,	Peak
1GHz-18GHz	Sweep time=Auto	(Receiver)
1GHZ-18GHZ	Average Value: RBW=1MHz/VBW=3MHz,	Average
	Sweep time=Auto	(Receiver)

FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency	FS	RA	AF	CL	AG	Transd
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300.00	40	58.1	12.2	1.6	31.90	

Transd=AF +CL-AG

RADIATION LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

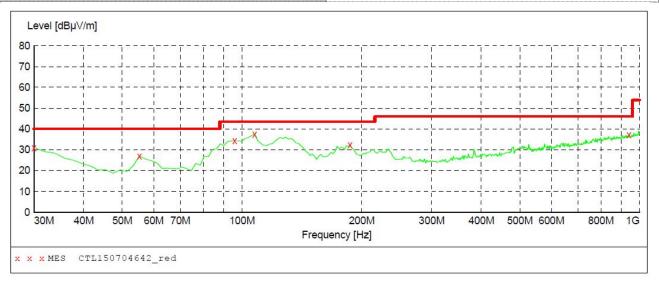
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Note: Mode: Data transmission (connected PC)

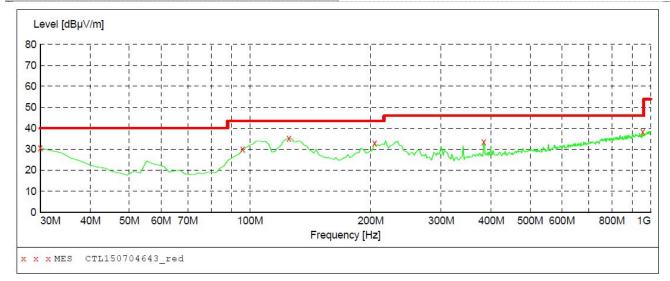
For 30MHz-1GHz

Polarization Vertical



Frequency	Level	Transd	Limit	Margin	Polarization
MHz	dBµV/m	dB	dBµV/m	dB	
30.000000 55.220000 95.960000 107.600000 187.140000 941.800000	31.10 27.10 34.40 37.40 32.30 37.10	21.1 8.3 10.6 13.3 13.4 26.5	40.0 40.0 43.5 43.5 43.5 46.0	12.9 9.1 6.1 11.2	VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL VERTICAL

Polarization Horizontal



Frequency	Level	Transd	Limit	Margin	Polarization
MHz	dBµV/m	dB	dBµV/m	dB	
30.000000	30.60	21.1	40.0	13.5	HORIZONTAL
95.960000	30.00	10.6	43.5		HORIZONTAL
125.060000	35.30	15.0	43.5		HORIZONTAL
204.600000 383.080000	32.90 33.50	14.4 17.8	43.5	10.6	HORIZONTAL HORIZONTAL
955.380000	38.40	26.7	46.0	7.6	HORIZONTAL

10000

18000

For 1GHz-18GHz

0 1000

Trace: (Discrete)

1500

2000

Polarization Vertical Toolege (dBuV/m) FCC CLASS B PK FCC

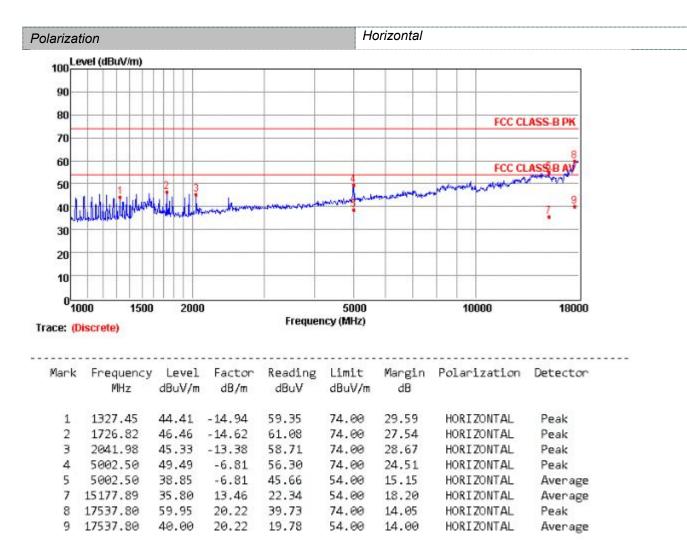
Mark Frequency Level Factor Reading Limit Margin Polarization Detector

Frequency (MHz)

5000

Mark	Frequency MHz	Level dBuV/m	Factor dB/m	Reading dBuV	Limit dBuV/m	Margin dB	Polarization	Detector
1	1327.45	50.89	-14.94	65.83	74.00	23.11	VERTICAL	Peak
2	1520.60	52.80	-14.71	67.51	74.00	21.20	VERTICAL	Peak
3	1520.60	42.83	-14.71	57.54	54.00	11.17	VERTICAL	Average
4	1677.62	55.93	-14.67	70.60	74.00	18.07	VERTICAL	Peak
5	1677.62	40.68	-14.67	55.35	54.00	13.32	VERTICAL	Average
6	5002.50	50.82	-6.81	57.63	74.00	23.18	VERTICAL	Peak
7	14702.91	36.08	13.62	22.46	54.00	17.92	VERTICAL	Average
8	14702.91	55.20	13.62	41.58	74.00	18.80	VERTICAL	Peak
10	17487.18	42.12	19.79	22.33	54.00	11.88	VERTICAL	Average

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Remark:

- 1. Emission level (dBuV/m) =Reading Value (dBuV) + Correction Factor (dB/m)
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Limit value- Emission level.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. "---" states at least 20dB lower than limit, not record any values.

5. Test Setup Photos of the EUT







.....End of Report.....