FCC RF Test Report

APPLICANT : Lenovo (Shanghai) Electronics Technology

Co., Ltd.

EQUIPMENT : Portable Tablet Computer

BRAND NAME : Lenovo

MODEL NAME : 601LV, 602LV FCC ID : **O57TAB3LV**

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E) CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on Apr. 12, 2016 and testing was completed on Jun. 23, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (KUNSHAN) INC., the test report shall not be reproduced except in full.

Prepared by: James Huang / Manager

James Huarg

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (KUNSHAN) INC. No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG641203A	Rev. 01	Initial issue of report	Jul. 20, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark	
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-	
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-	
3.6	\$2.1049 6 \$22.917(b) Occupied Bandwidth \$24.238(b)		Reporting Only	PASS	-	
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-	
3.8	§2.1051 §22.917(a) Conducted Emission §24.238(a)		< 43+10log10(P[Watts])	PASS	-	
2.0	§2.1055 §22.355	Frequency Stability for	< 2.5 ppm for Part 22H	DACC		
3.9	§2.1055 §24.235	Temperature & Voltage	Within Authorized Band	PASS	-	
	§22.913(a)(2)	S22.913(a)(2) Effective Radiated Power < 7 Watts PA		PASS	-	
4.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-	
4.5	\$2.1053 \$22.917(a) \$24.238(a) Field Strength of Spurious Radiation		< 43+10log10(P[Watts])	PASS	Under limit 22.68 dB at 2510.000 MHz	

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1 General Description

1.1 Applicant

Lenovo (Shanghai) Electronics Technology Co., Ltd.

NO.68 BUILDING, 199 FENJU RD, China (Shanghai) Pilot Free Trade Zone, 200131, CHINA

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong

1.3 Product Feature of Equipment Under Test

	Product Feature				
Equipment	Portable Tablet Computer				
Brand Name	Lenovo				
Model Name	601LV, 602LV				
FCC ID	O57TAB3LV				
	GPRS/EGPRS/LTE/				
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/				
	Bluetooth v3.0+EDR/ Bluetooth v4.0 LE				
	Conducted: 861809030000238				
	Radiation:				
IMEI Code	861809030001178 for 22H				
IIIVEI Code	861809030000634 for 24E				
	ERP/EIRP:				
	861809030001640				
HW Version	LenovoPad 601LV				
SW Version	601LV_160916				
EUT Stage	Identical Prototype				

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification					
	GPRS/E	DGE:			
Tx Frequency	850:	824.2 MHz ~ 848.8 MHz			
	1900:	1850.2 MHz ~ 1909.8MHz			
	GPRS/E	DGE:			
Rx Frequency	850:	869.2 MHz ~ 893.8 MHz			
	1900:	1930.2 MHz ~ 1989.8 MHz			
	GPRS/E	DGE:			
Maximum Output Power to Antenna	850:	32.59 dBm			
	1900:	30.17 dBm			
Antenna Type	PIFA Antenna				
Type of Modulation	GPRS: GMSK				
Type of Modulation	EDGE: GMSK / 8PSK				

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GPRS class 8	GMSK	0.9078	0.0347 ppm	243KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.2825	0.0299 ppm	248KG7W
Part 24E	GSM1900 GPRS class 8	GMSK	1.0209	0.0085 ppm	244KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.5458	0.0144 ppm	251KG7W

1.7 Testing Location

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.				
	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China				
Test Site Location	TEL: +86-0512-5790-0158				
	FAX: +86-0512-5790-0958				
Test Site No.	Sporton Site No.				
rest site No.	TH01-KS				

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
	No. 3 Building, the third floor of se	outh, Shahe River west, Fengzeyuan			
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China				
	TEL: +86-755- 3320-2398				
Took Cita No	Sporton Site No.	FCC Registration No.			
Test Site No.	03CH02-SZ 566869				

Note: The test site complies with ANSI C63.4 2014 requirement.

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1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 30 MHz to 10th harmonic for GSM850.
- 2. 30 MHz to 10th harmonic for GSM1900.

All modes and data rates and positions were investigated.

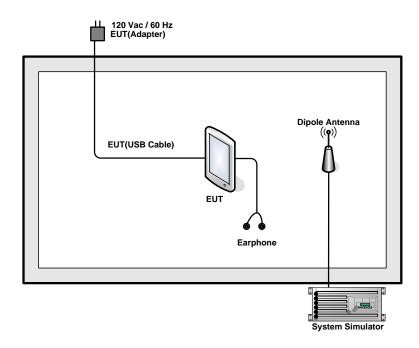
Test modes are chosen to be reported as the worst case configuration below:

Test Modes							
Band	Radiated TCs	Conducted TCs					
GSM 850	■ GPRS class 8 Link	■ GPRS class 8 Link					
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link					
CCM 4000	■ GPRS class 8 Link	■ GPRS class 8 Link					
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link					

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Apple	MC690ZP/A	N/A	Shielded,1.0m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.3 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

$$= 4.3 + 10 = 14.3 (dB)$$

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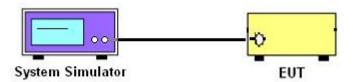
3 Conducted Test Result

3.1 Measuring Instruments

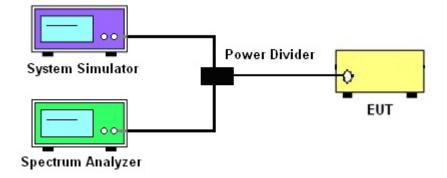
See list of measuring instruments of this test report.

3.2 Test Setup

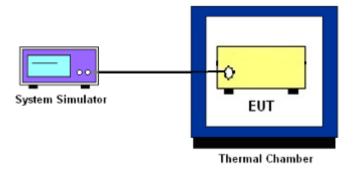
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power for GSM.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 5.7.1.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. Set EUT to transmit at maximum output power.
- 4. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
- 5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.

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3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

- 1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
 (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

3.7.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

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3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v02r02 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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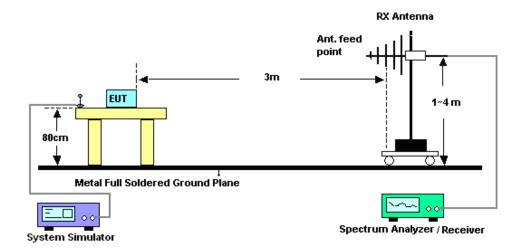
4 Radiated Test Items

4.1 Measuring Instruments

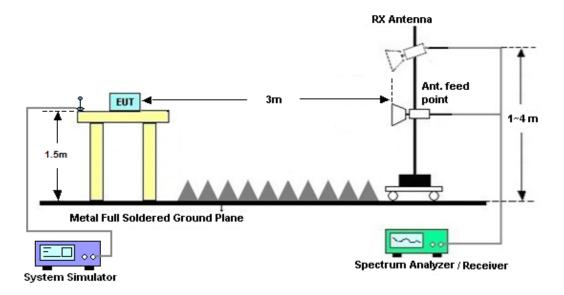
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

4.4.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-D-2010, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

4.4.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
- 2. The EUT was placed on a non-conductive rotating platform (0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz) in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
- 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. Tx Cable loss + Substitution antenna gain Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP = LVL + Correction factor and ERP = EIRP 2.15. Take the record of the output power at substitution antenna.

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	GSM/GPRS/EDGE	WCDMA/HSPA
SPAN	500kHz	10MHz
RBW	10kHz	100kHz
VBW	30kHz	300kHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

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4.5 Field Strength of Spurious Radiation Measurement

4.5.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.5.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
 - = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Sep. 10, 2015	Jun. 15, 2016~ Jun. 23, 2016	Sep. 09, 2016	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 24, 2015	Jun. 15, 2016~ Jun. 23, 2016	Oct. 23, 2016	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Oct. 20, 2015	Jun. 23, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	May 21, 2016	Jun. 23, 2016	May 20, 2017	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 11, 2016	Jun. 23, 2016	Jan. 10, 2017	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 17, 2015	Jun. 23, 2016	Aug. 16, 2016	Radiation (03CH02-SZ)
Amplifier	HP	8447F	3113A04622	9kHz~1300MHz / 30 dB	Aug. 07, 2015	Jun. 23, 2016	Aug. 06, 2016	Radiation (03CH02-SZ)
Amplifier	Agilent	8449B	3008A01023	1GHz~26.5GHz	Oct. 20, 2015	Jun. 23, 2016	Oct. 19, 2016	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	61601000247 0	N/A	NCR	Jun. 23, 2016	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jun. 23, 2016	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jun. 23, 2016	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	5.0dB
Confidence of 95% (U = 2Uc(y))	5.VQB

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of	4.9dB
Confidence of 95% (U = 2Uc(y))	

<u>Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)</u>

Measuring Uncertainty for a Level of	5.4.ID
Confidence of 95% (U = 2Uc(y))	5.1dB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

	Conducted Power (*Unit: dBm)					
Band		GSM850			GSM1900	
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GPRS class 8	<mark>32.59</mark>	32.58	32.54	30.17	30.16	30.14
GPRS class 10	32.18	32.11	32.15	29.13	29.11	29.06
GPRS class 11	30.85	30.79	30.77	27.40	27.33	27.26
GPRS class 12	29.75	29.73	29.71	26.15	26.11	26.08
EGPRS class 8	26.98	27.25	27.27	26.91	26.76	26.78
EGPRS class 10	25.99	26.24	26.18	25.93	25.74	25.71
EGPRS class 11	23.96	24.23	24.22	23.92	23.75	23.80
EGPRS class 12	22.91	23.16	23.19	22.67	22.59	22.60

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A1. GSM

Peak-to-Average Ratio

Mode	GSM850(dB)		Limit: 13dB
Mod.	GPRS class 8 EDGE class 8		Result
Lowest CH	0.35	3.28	
Middle CH	0.12	3.19	PASS
Highest CH	0.12	3.28	

Mode	GSM1900(dB)		Limit: 13dB
Mod.	GPRS class 8 EDGE class 8		Result
Lowest CH	0.14	3.62	
Middle CH	0.14	3.33	PASS
Highest CH	0.12	3.51	

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GSM850 (GPRS class 8) GSM850 (EDGE class 8) **Lowest Channel Lowest Channel** Offset 14.30 dB AQT 2 ms ● RBW 10 MHz 14.30 dB 2 ms • RBW 10 MHz
 Complementary Cumulative Distribution Function

 Mean
 Peak
 Crest

 Trace 1
 12.23 dBm
 12.61 dBm
 0.38 dB
 Date: 15.JUN.2016 14:55:02 Date: 15.JUN.2016 15:21:11 **Middle Channel Middle Channel**
 Spectrum

 Ref Level
 34.30 dBm
 Offset
 14.30 dB

 Att
 30 dB
 AQT
 2 ms
 RBW
 10 MHz
 14.30 dB 2 ms • RBW 10 MHz 0.01% Date: 15.JUN.2016 15:21:30 Date: 15.JUN.2016 14:55:35 **Highest Channel Highest Channel** Offset 14.30 dB AQT 2 ms ● RBW 10 MHz
 Ref Level
 34.30 dBm
 Offset
 14.30 dB

 Att
 30 dB
 AQT
 2 ms
 RBW
 10 MHz
 Ref Level 34.30 Att

> Samples: 13000 0.1% 0.01% 0.12 dB 0.12 dB

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Samples: 130000 0.1% 0.01% 3.28 dB 3.36 dB

GSM1900 (GPRS class 8) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel** Offset 15.00 dB AQT 2 ms ● RBW 10 MHz 15.00 dB 2 ms • RBW 10 MHz Date: 15.JUN.2016 16:35:04 Date: 15.JUN.2016 17:02:45 **Middle Channel Middle Channel** 15.00 dB 2 ms • RBW 10 MHz 0.01% Date: 15.JUN.2016 17:02:58 Date: 15.JUN.2016 16:35:20 **Highest Channel Highest Channel** Spectrum

Ref Level 35.00 dBm

Att 30 dB Offset 15.00 dB AQT 2 ms ● RBW 10 MHz

> Samples: 13000 0.1% 0.01% 0.12 dB 0.12 dB

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Samples: 130000 0.1% 0.01% 3.51 dB 3.57 dB

26dB Bandwidth

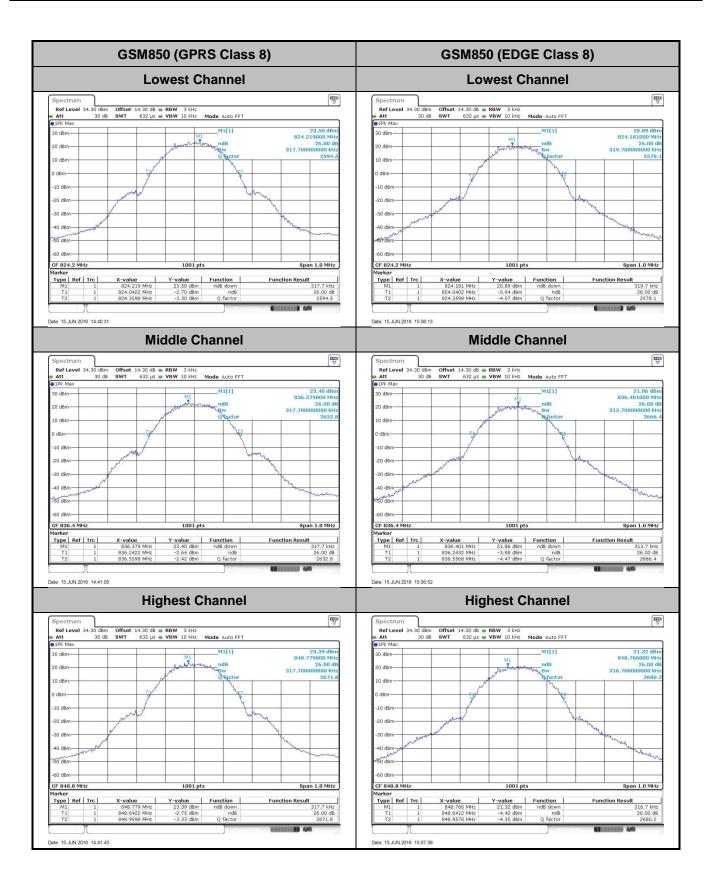
Mode	GSM850(MHz)		
Mod.	GPRS Class 8 EDGE Class 8		
Lowest CH 0.318		0.320	
Middle CH	0.318	0.314	
Highest CH	0.318	0.317	

Mode	GSM1900(MHz)			
Mod.	GPRS Class 8 EDGE Class 8			
Lowest CH	0.319	0.317		
Middle CH	0.319	0.314		
Highest CH	0.315	0.312		

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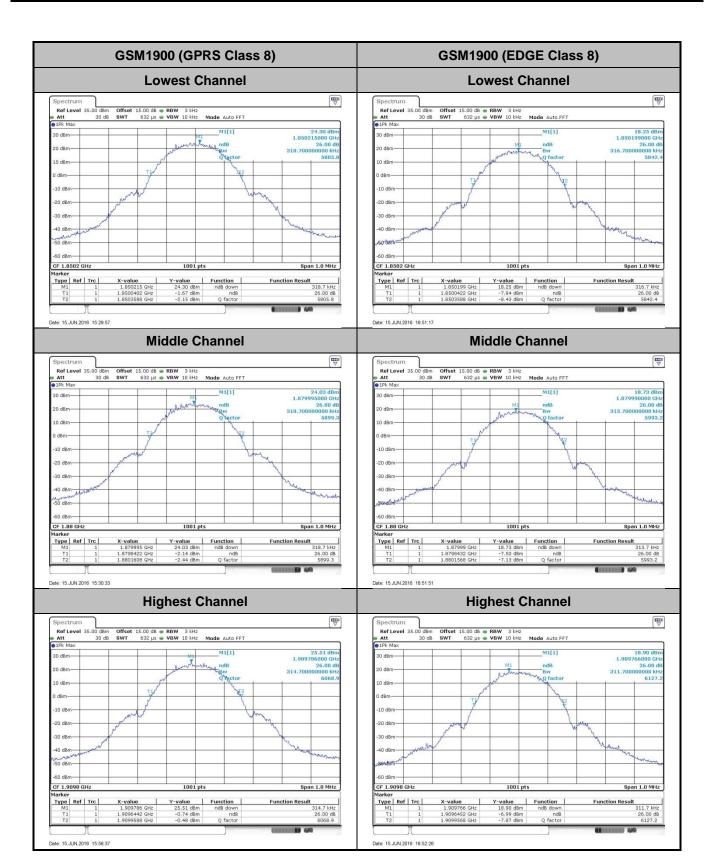
TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: O57TAB3LV Page Number : A5 of A18
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Occupied Bandwidth

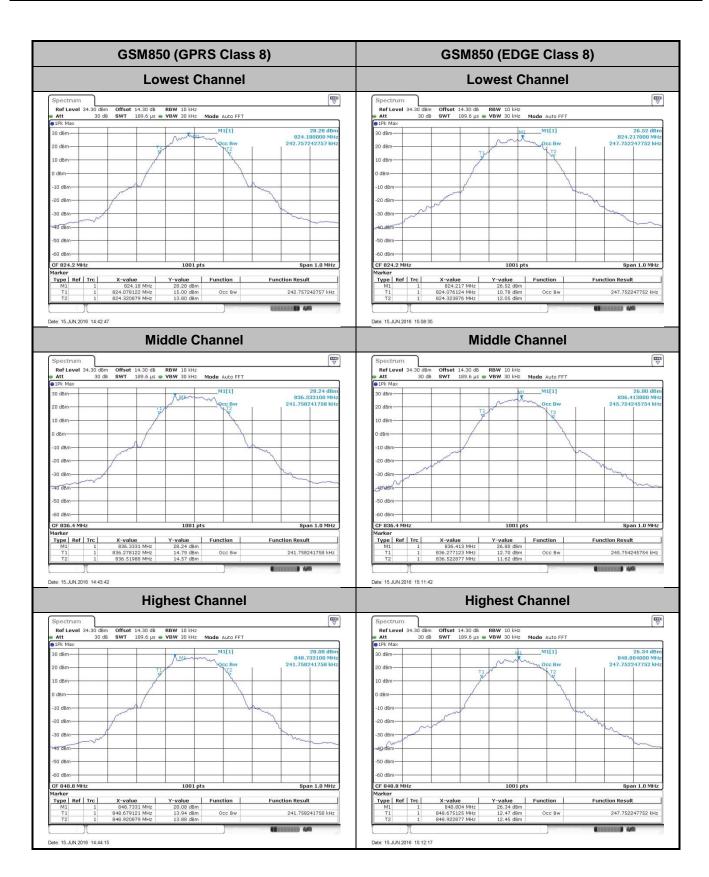
Mode	GSM850(MHz)		
Mod.	GPRS Class 8 EDGE Class 8		
Lowest CH 0.243		0.248	
Middle CH	0.242	0.246	
Highest CH	0.242	0.248	

Mode	GSM1900(MHz)			
Mod.	GPRS Class 8 EDGE Class 8			
Lowest CH	0.244	0.246		
Middle CH	0.244	0.247		
Highest CH	0.242	0.251		

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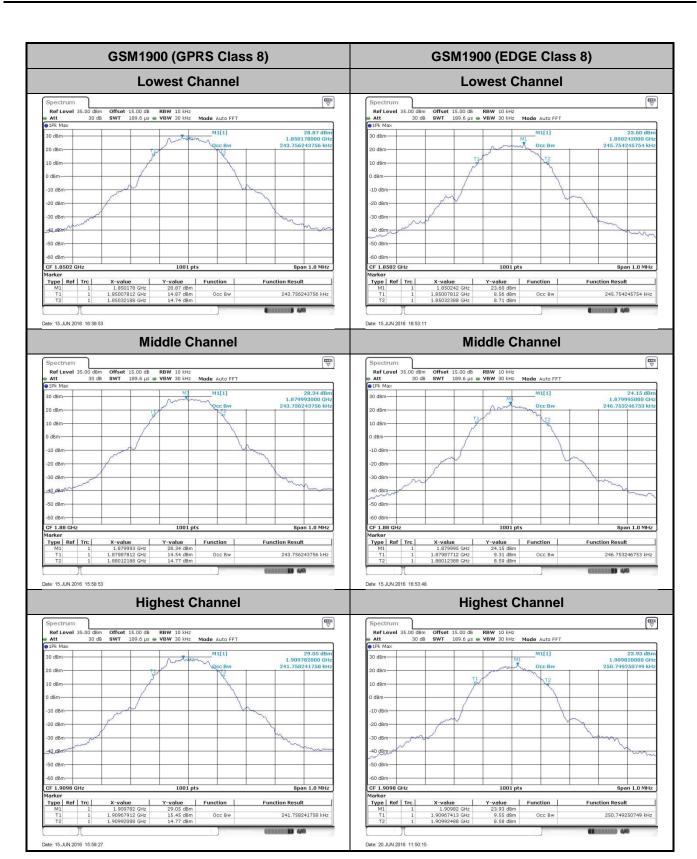
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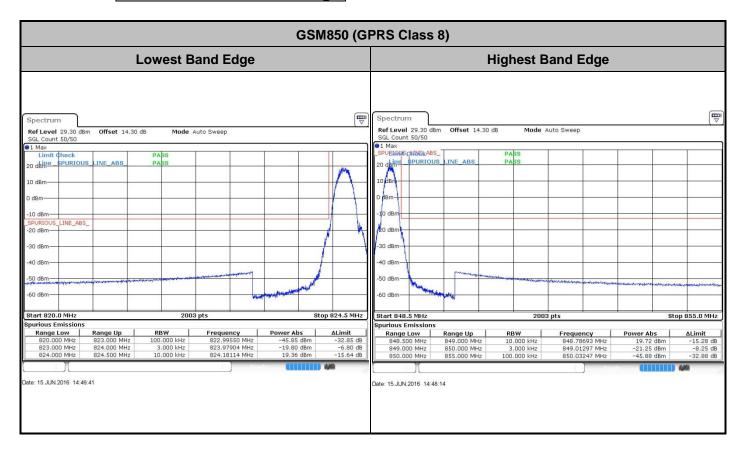
Report Template No.: BU5-FG22/24 Version 1.1



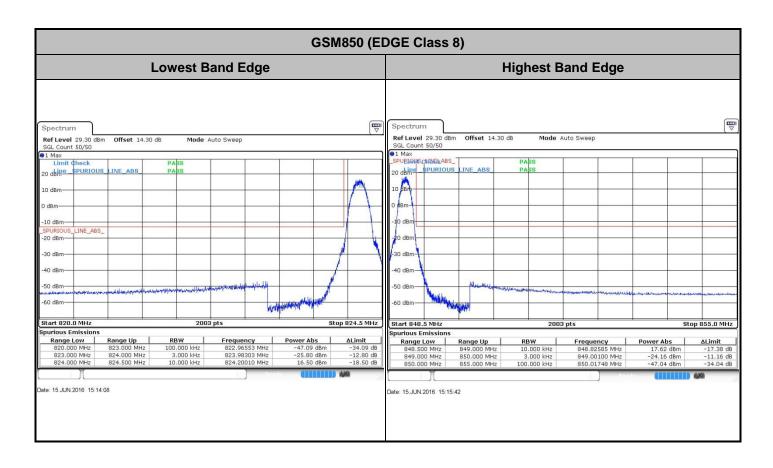
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Conducted Band Edge

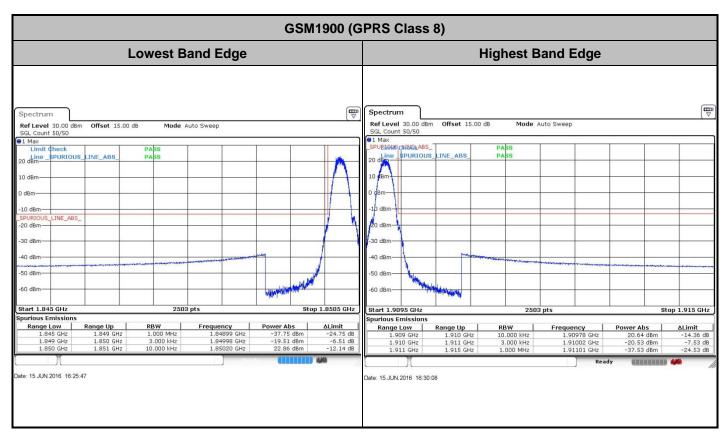


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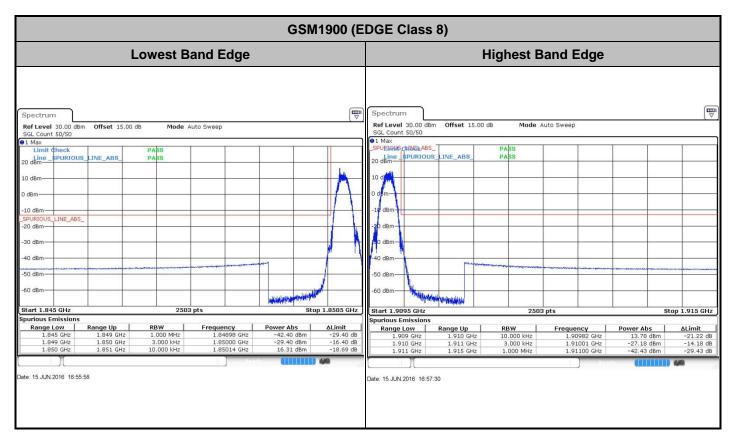


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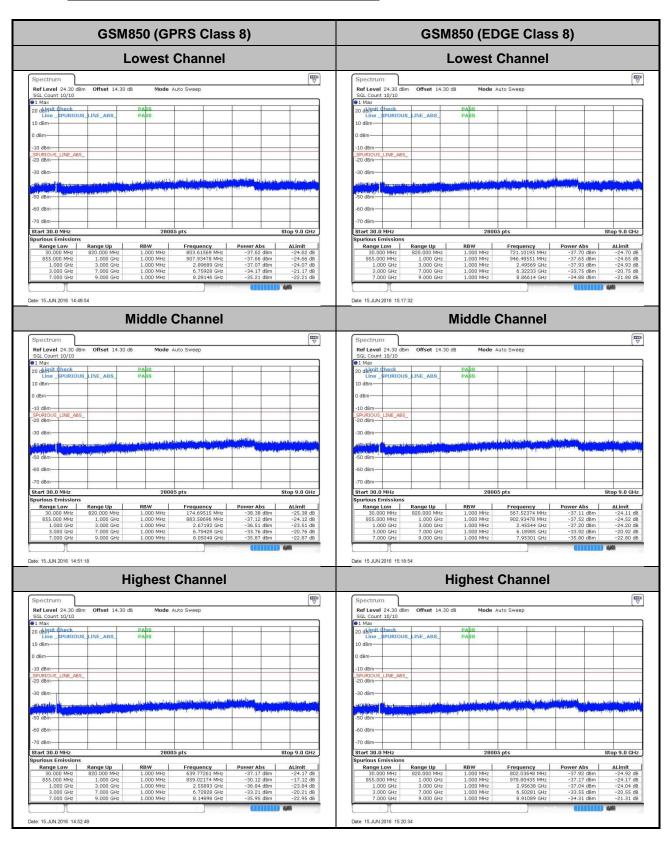
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Conducted Spurious Emission



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GSM1900 (GPRS Class 8) GSM1900 (EDGE Class 8) **Lowest Channel Lowest Channel ₩ _** Ref Level 25.00 dBm Offset 15.00 dB SGL Count 10/10 1 Max Ref Level 25.00 dBm Offset 15.00 dB 20 demit Check dBm-LINE ABS LINE ABS 48006 pts Start 30.0 MHz 48006 pts Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz Range Low 30.000 MHz Range Low 30,000 MHz Date: 15.JUN.2016 16:31:40 Date: 15.JUN.2016 16:59:23 **Middle Channel Middle Channel** 20 dsmit check Line _spurious_LINE_ABS -30 dBm-30 dBm Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz 1.000 GHz 1.845 GHz 3.000 GHz 7.000 GHz 13.600 GHz 19.100 GHz Date: 15.JUN.2016 16:33:02 Date: 15.JUN.2016 17:00:42 **Highest Channel Highest Channel** Ref Level 25.00 SGL Count 10/10 20 den Line SPURIOUS LINE ABS 20 dbm Line_spurious_LINE_ABS _LINE_ABS_ Range Low 30.000 MHz Range Up
 Frequency
 Power Abs

 896.01949 MHz
 -37.11 dBs
 Frequency 950.79710 MHz Power Abs -36.84 dBn

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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GPRS class 8)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0132	0.0024	
40	Normal Voltage	0.0024	0.0108	
30	Normal Voltage	0.0036	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0108	0.0012	
0	Normal Voltage	0.0012	0.0299	
-10	Normal Voltage	0.0120	0.0024	PASS
-20	Normal Voltage	0.0347	0.0191	
-30	Normal Voltage	0.0155	0.0012	
20	Maximum Voltage	0.0036	0.0060	
20	Normal Voltage	0.0012	0.0048	
20	Battery End Point	0.0060	0.0096	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V

SPORTON INTERNATIONAL (KUNSHAN) INC.

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Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0085	0.0032	
40	Normal Voltage	0.0048	0.0032	
30	Normal Voltage	0.0059	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0016	
0	Normal Voltage	0.0021	0.0011	
-10	Normal Voltage	0.0016	0.0133	PASS
-20	Normal Voltage	0.0059	0.0117	
-30	Normal Voltage	0.0085	0.0144	
20	Maximum Voltage	0.0059	0.0032	
20	Normal Voltage	0.0027	0.0005	
20	Battery End Point	0.0021	0.0016	

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horiz	ontal	Vertical		
	Wode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	GSM850 GPRS class 8	27.67	0.5848	28.18	0.6577	
Middle		28.63	0.7295	29.02	0.7980	
Highest		29.11	0.8147	29.58	0.9078	
Lowest	GSM850	21.44	0.1393	22.10	0.1622	
Middle		22.62	0.1828	23.04	0.2014	
Highest	EDGE class 8	24.00	0.2512	24.51	0.2825	
Limit	ERP < 7W	Res	sult	PASS		

Channel	Mode	Horiz	ontal	Vertical		
	Wode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	GSM1900	29.57	0.9057	28.76	0.7516	
Middle		29.64	0.9204	28.65	0.7328	
Highest	GPRS class 8	30.09	1.0209	28.65	0.7328	
Lowest	GSM1900	27.01	0.5023	25.81	0.3811	
Middle		26.47	0.4436	26.13	0.4102	
Highest	EDGE class 8	27.37	0.5458	25.35	0.3428	
Limit	EIRP < 2W	Re	sult	PASS		

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Radiated Spurious Emission

	GSM850 (GPRS class 8)										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1672	-49.24	-13	-36.24	-53.56	-55.93	0.56	9.40	Н		
	2510	-42.40	-13	-29.40	-51.19	-50.11	0.74	10.60	Н		
	3346	-57.44	-13	-44.44	-66.25	-67.04	0.85	12.60	Н		
	1672	-60.96	-13	-47.96	-62.62	-67.65	0.56	9.40	V		
	2510	-35.68	-13	-22.68	-44.94	-43.39	0.74	10.60	V		
	3346	-58.49	-13	-45.49	-66.63	-68.09	0.85	12.60	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM850 (EDGE class 8)										
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
Middle	1672	-59.23	-13	-46.23	-62.06	-65.92	0.56	9.40	Н		
	2510	-54.01	-13	-41.01	-59.75	-61.72	0.74	10.60	Н		
	3346	-57.80	-13	-44.80	-66.61	-67.40	0.85	12.60	Н		
	1672	-58.40	-13	-45.40	-60.06	-65.09	0.56	9.40	V		
	2510	-36.70	-13	-23.70	-45.77	-44.41	0.74	10.60	V		
	3346	-57.83	-13	-44.83	-65.97	-67.43	0.85	12.60	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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GSM1900 (GPRS class 8)										
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
Middle	3760	-49.98	-13	-36.98	-63.53	-56.02	6.56	12.60	Н	
	5640	-51.95	-13	-38.95	-67.89	-57.05	8	13.10	Н	
	7520	-49.05	-13	-36.05	-67.79	-50.78	9.57	11.30	Н	
	3760	-51.82	-13	-38.82	-65.17	-57.86	6.56	12.6	V	
	5640	-48.92	-13	-35.92	-66.27	-54.02	8	13.1	V	
	7520	-49.22	-13	-36.22	-67.62	-50.95	9.57	11.3	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM1900 (EDGE class 8)										
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	3760	-50.99	-13	-37.99	-64.54	-57.03	6.56	12.60	Н		
	5640	-47.67	-13	-34.67	-63.61	-52.77	8	13.10	Н		
Middle	7520	-46.20	-13	-33.20	-64.94	-47.93	9.57	11.30	Н		
Middle	3760	-47.56	-13	-34.56	-60.91	-53.60	6.56	12.6	V		
	5640	-46.50	-13	-33.50	-63.85	-51.60	8	13.1	V		
	7520	-47.04	-13	-34.04	-65.44	-48.77	9.57	11.3	V		

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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