



RADIO TEST REPORT

Report No.: STS2104059W01

Issued for

ABSOLUTE SOLUTION CO., LTD

111/11 Soi Kubon35-37, Kubon Rd. Bangchan Klongsamwa, Bangkok, 10510, Thailand

A B

Product Name:	Core board module 4G
Brand Name:	SHADOW
Model Name:	ABSL-G
Series Model:	XY6762CA-C
FCC ID:	2AZVC-ABSL-G
Test Standard:	FCC Part 22

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TEST RESULT CERTIFICATION

Applicant's Name:	ABSOLUTE SOLUTION CO., LTD
Address:	111/11 Soi Kubon35-37, Kubon Rd. Bangchan Klongsamwa, Bangkok, 10510, Thailand
Manufacturer's Name:	ABSOLUTE SOLUTION CO., LTD
Address:	111/11 Soi Kubon35-37, Kubon Rd.Bangchan Klongsamwa, Bangkok, 10510, Thailand
Product Description	
Product Name:	Core board module 4G
Brand Name:	SHADOW
Model Name:	ABSL-G
Series Model:	XY6762CA-C
Test Standards:	FCC Part 22
Test Procedure:	KDB 971168 D01 v03r01,ANSI C63.26(2015)
under test (EUT) is in compliance sample identified in the report. This report shall not be reproduce	been tested by STS, the test results show that the equipment with the FCC requirements. And it is applicable only to the tested ed except in full, without the written approval of STS, this document personal only, and shall be noted in the revision of the document.
Date of Test	
Date of receipt of test item:	14 Apr. 2021
Date (s) of performance of tests.:	14 Apr. 2021 ~ 08 May 2021
Date of Issue	08 May 2021
Test Result	Pass
Testing Engineer	my then
Ta alawia al Maya a	(Chris Chen)
Technical Manag	ger: Jean The APPROVAL 6
	(Sean she)
Authorized Signa	atory:
	(Vita Li)



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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	08 May 2021	STS2104059W01	ALL	Initial Issue





SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26(2015)

FCC Rules	Test Description	Test Limit	Test Result	Reference
2.1046	Conducted Output Power	Reporting Only	PASS	
22.913d	Peak-to-Average Ratio	< 13 dB	PASS	
2.1046 22.913	Effective Radiated Power/Equivalent Isotropic Radiated Power	< 7 Watts max. ERP(Part 22)	PASS	
2.1049 22.917	Occupied Bandwidth	Reporting Only	PASS	
2.1055 22.355	Frequency Stability	< 2.5 ppm (Part 22)	PASS	
2.1051 22.917	Spurious Emission at Antenna Terminals	< 43+10log10(P[Watts])	PASS	
2.1053 22.917	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	
2.1051 22.917	Band Edge	< 43+10log10(P[Watts])	PASS	



1 INTRODUCTION

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongging Road, HepingShegu,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569 IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

No.	Item	Uncertainty
1	RF output power, conducted	±0.68dB
2	Unwanted Emissions, conducted	±2.988dB
3	All emissions, radiated 9K-30MHz	±2.84dB
4	All emissions, radiated 30M-1GHz	±4.39dB
5	All emissions, radiated 1G-6GHz	±5.10dB
6	All emissions, radiated>6G	±5.48dB
7	Conducted Emission (9KHz-150KHz)	±2.79dB
8	Conducted Emission (150KHz-30MHz)	±2.80dB



2 PRODUCT INFORMATION

Product Name	Core board module 4G
Trade Name	SHADOW
Model Name	ABSL-G
Series Model	XY6762CA-C
Model Difference	Only different in model name
	GPRS/EDGE:
Ty Fraguenov:	850: 824 MHz ~ 849MHz
Tx Frequency:	WCDMA:
	Band V: 824 MHz ~ 849 MHz
	GPRS/EDGE:
Dy Fraguency:	850: 869 MHz ~ 894 MHz
Rx Frequency:	WCDMA:
	Band V: 869 MHz ~ 894 MHz
Max RF Output Power:	GPRS850(1-Slot):30.61dBm GPRS850(2-Slot):30.20dBm GPRS850(3-Slot):29.71dBm GPRS850(4-Slot):29.24dBm EDGE 850(1-Slot):29.06dBm EDGE 850(2-Slot):28.35dBm EDGE 850(3-Slot):27.62dBm EDGE 850(4-Slot):26.91dBm WCDMA Band V:22.21dBm
Type of Emission:	GPRS(850): 248KGXW EDGE(850): 245KG7W WCDMA850: 4M18F9W
Modulation Characteristics:	GMSK for GPRS; GMSK and 8PSK for EDGE WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
SIM Card:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.
Antenna:	PIFA
Antenna gain:	GSM 850/ WCDMA 850: 2.8dBi
Power Rating:	Input: 3.45~4.35V
GPRS/EDGE Class:	Multi-Class12
Extreme Vol. Limits:	DC 3.45V~ DC 4.35(Normal: DC 3.8V)
Extreme Temp. Tolerance:	-30°C to +50°C
Hardware version number:	K367-MB-V1.1
Software version number:	K367-XY6762CA-C.1616.01.P0.66.V1.1-userdebug
** Note: The High Voltage 3	.45V and Low Voltage 4.35V was declared by manufacturer. The EUT

^{**} Note: The High Voltage 3.45V and Low Voltage 4.35V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.



3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems 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:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.

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/EDGE CLASS 12 LINK	GPRS/EDGE CLASS 12 LINK	
WCDMA BAND V	RMC 12.2KBPS LINK	RMC 12.2KBPS LINK	

RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
0014	0.50	GPRS (Class12)	GMSK	4		5.1.4	2 SIM 1 is
GSM	850	EDGE(Class12)	GMSK, 8PSK	E2	GSM850:6dBi	PIFA	used to tested.
RF Function	Band	Mode	Modulation	Power Class	Ant Gain(dBi)	Ant Type	SIM Card
		WCDMA	QPSK				2
WCDMA	5	HSDPA	QPSK, 16QAM	3	WCDMA Band5:6dBi	PIFA	SIM 1 is used to
		HSUPA	BPSK				tested.



4 MEASUREMENT INSTRUMENTS

Radiation Test equipment

Kind of Equipment	Manufacturer	Туре No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2020.10.12	2021.10.11
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09
Signal Generator	Agilent	83752A	3610A02740	2020.10.10	2021.10.09
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2019.10.15	2021.10.14
Bilog Antenna	TESEQ	CBL6111D	45873	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1343	2020.10.12	2022.10.11
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2020.10.12	2022.10.11
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2020.10.10	2021.10.09
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Test SW	BALUN	BL410-E/18.905			

RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	119907	2020.10.12	2021.10.11
Wireless Communications Test Set	R&S	CMW 500	133884	2021.03.04	2022.03.03
Signal Analyzer	Agilent	N9020A	MY52440124	2021.03.04	2022.03.03
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2021.03.04	2022.03.03
Programmable power supply	Agilent	E3642A	MY40002025	2020.10.12	2021.10.11
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	FARAD	LZ-RF /LzRf-3A3			

Equipment with a calibration date of "NCR" shown in this list was not used to make direct calibrated measurements.



5 TEST ITEMS

5.1 CONDUCTED OUTPUT POWER

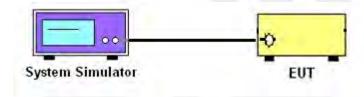
TEST OVERVIEW

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.

TEST PROCEDURES

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

TEST SETUP



TEST RESULT

Note: Test data See Appendix 1.



5.2 PEAK TO AVERAGE RATIO

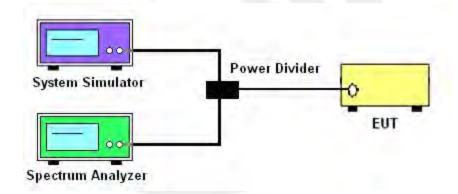
TEST OVERVIEW

According to §22.913(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

TEST PROCEDURES

- 1. The testing follows FCCKDB 971168 v03r01 section.
- 2. The eut was connected to the spectrum analyzer and peak and av system simulator& spectrum analysis reads.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Set the test probe and measure average power of the spectrum analysis.

TEST SETUP



TEST RESULT

Note: Test data See Appendix 2.



5.3 TRANSMITTER RADIATED POWER (EIRP/ERP) TEST OVERVIEW

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26 2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

TEST PROCEDURE

- 1. The testing follows FCC KDB 971168 Section 5.8 and ANSI C63.26-2015 Section 5.2.
- 2. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 3. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 4. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 5. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a nonradiating cable. The absolute levels of the spurious emissions were measured by the substitution.
- 6. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26-2015. 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.

EIRP=S.G Level+ Gain-Cable loss; ERP=S.G Level+ Gain-Cable loss-2.15.

TEST RESULT

Note: Test data See Appendix 3.



5.4 OCCUPIED BANDWIDTH

TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

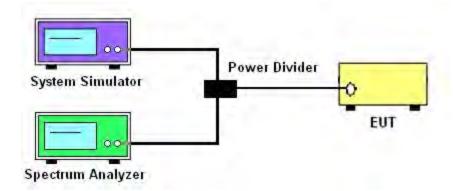
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 Db below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth)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

All modes of operation were investigated and the worst case configuration results are reported in this section.

TEST PROCEDURE

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
- 1 5% of the 99% occupied bandwidth observed in Step 7

TEST SETUP



TEST RESULT

Note: Test data See Appendix 4.



5.5 FREQUENCY STABILITY TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

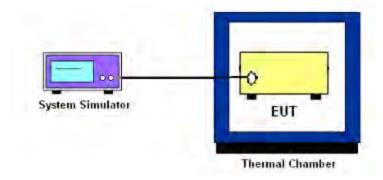
Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 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.

Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 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.

TEST SETUP



TEST RESULT

Note: Test data See Appendix 5.



5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS TEST OVERVIEW

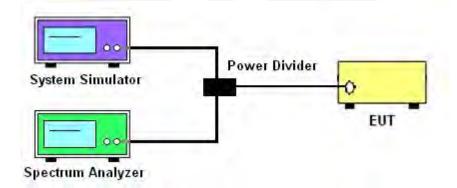
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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

TEST PROCEDURE

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.5.
- 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.

TEST SETUP



TEST RESULT

Note: Test data See Appendix 6.



5.7 BAND EDGE

TEST OVERVIEW

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is 43 + log10(P[Watts]), where P is the transmitter power in Watts.

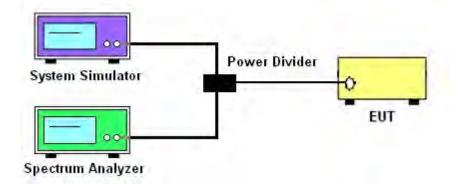
TEST PROCEDURE

- 1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7.
- 2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
- 3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 4. 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.

- 5. The band edges of low and high channels for the highest RF powers were measured.
- 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.

TEST SETUP



TEST RESULT

Note: Test data See Appendix 7.



5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signalsoperating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT isoperating at maximum power and at the appropriate frequencies.

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

TEST PROCEDURE

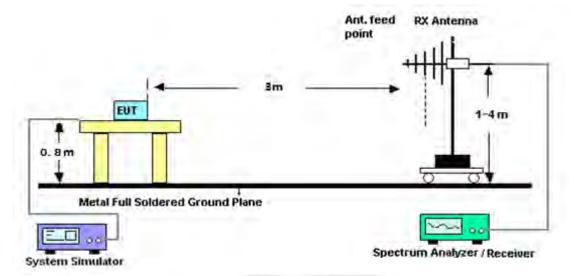
- 1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
- 2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 3. VBW ≥ 3 x RBW
- 4. Span = 1.5 times the OBW
- 5.No. of sweep points > 2 x span/RBW
- 6. Detector = Peak
- 7. Trace mode = max hold
- 8. The trace was allowed to stabilize
- 9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-E. 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.

PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

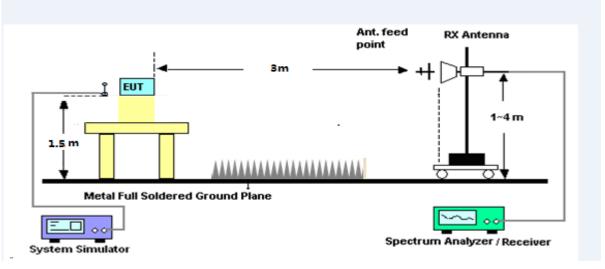


TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



TEST RESULT

Note: Test data See Appendix 8.



APPENDIX A.TESTRESULT A1. CONDUCTED OUTPUT POWER

GSM 850:

	GSM 850	
Mode	Frequency (MHz)	AVG Power(dBm)
GPRS	824.2	30.49
_	836.6	30.54
(GMSK,1-Slot)	848.8	30.61
CDDC	824.2	30.09
GPRS	836.6	30.07
(GMSK,2-Slot)	848.8	30.20
CDDC	824.2	29.63
GPRS	836.6	29.58
(GMSK,3-Slot)	848.8	29.71
CDDC	824.2	29.17
GPRS	836.6	29.09
(GMSK,4-Slot)	848.8	29.24
ECDDC.	824.2	28.15
EGPRS	836.6	29.00
(8PSK,1-Slot)	848.8	29.06
FODDO	824.2	27.40
EGPRS	836.6	28.27
(8PSK,2-Slot)	848.8	28.35
50000	824.2	26.63
EGPRS	836.6	27.53
(8PSK,3-Slot)	848.8	27.62
FORDO	824.2	25.93
EGPRS	836.6	26.82
(8PSK,4-Slot)	848.8	26.91



UMTS BAND V

	UMTS BAND 5	
Mode	Frequency(MHz)	AVG Power
WCDMA 850	826.4	22.21
RMC —	836.6	21.86
RIVIC	846.6	21.71
HSDPA	826.4	21.38
Subtest 1	836.6	21.92
Sublest 1	846.6	22.04
HSDPA	826.4	20.92
Subtest 2	836.6	21.50
Sublest 2	846.6	21.58
ПСБВУ	826.4	20.43
HSDPA — Subtest 3 —	836.6	21.04
Sublest 3	846.6	21.20
ПСБВУ	826.4	20.06
HSDPA - Subtest 4 -	836.6	20.63
Sublest 4	846.6	20.88
HSUPA	826.4	21.42
Subtest 1	836.6	21.71
Sublest I	846.6	22.04
HSUPA	826.4	20.55
Subtest 2	836.6	20.75
Sublest 2	846.6	21.05
LICLIDA	826.4	20.54
HSUPA Subtest 3	836.6	20.33
Sublest 3	846.6	20.58
HSUPA	826.4	20.24
Subtest 4	836.6	20.00
Sublest 4	846.6	20.18
HSUPA	826.4	18.76
Subtest 5	836.6	18.55
Sublest 5	846.6	18.72

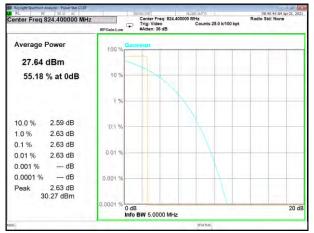


A2. PEAK-TO-AVERAGE RADIO

GSM 850					
Mode	Frequency (MHz)	PAR			
	824.2	2.63			
GPRS 850	836.6	2.64			
	848.8	2.64			
	824.2	6.02			
EGPRS 850	836.6	6.71			
	848.8	5.91			

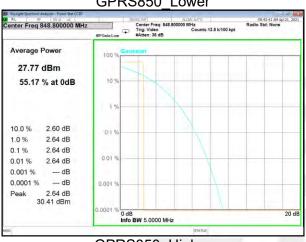
	UMTS Band 5						
Mode	Frequency (MHz)	PAR					
WCDMA 850	826.4	3.11					
RMC	836.6	3.09					
	846.6	3.34					
	826.4	3.54					
HSDPA 850	836.6	3.73					
	846.6	3.64					
	826.4	3.49					
HSUPA 850	836.6	3.51					
	846.6	3.92					







GPRS850 Lower





GPRS850 Higher



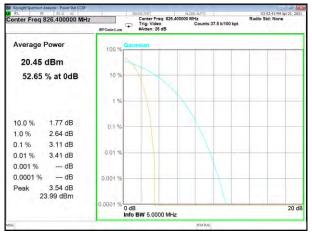
EGPRS850 Lower



EGPRS850 Middle

EGPRS850 Higher

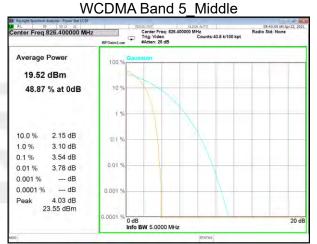




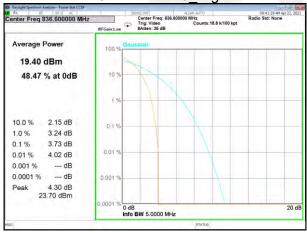


WCDMA Band 5 Low





WCDMA Band 5 High



HSDPA Band 5_Low



HSDPA Band 5 Middle

HSDPA Band 5 High







HSUPA Band 5_Middle





HSUPA Band 5_High



A3. TRANSMITTER RADIATED POWER (EIRP/ERP)

Note:Test is divided into three directions, X/Y/Z. X pattern for the worst.

	Radiated Power (ERP) for GSM 850 MHZ								
					Result				
Mode	Frequency	S G.Level (dBm)	Cable loss	Gain(dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	Conclusion	
	824.2	23.90	0.44	6.5	2.15	27.81	Horizontal	Pass	
	824.2	26.02	0.44	6.5	2.15	29.93	Vertical	Pass	
GPRS850	836.6	23.66	0.45	6.5	2.15	27.56	Horizontal	Pass	
GFIX3030	836.6	25.92	0.45	6.5	2.15	29.82	Vertical	Pass	
	848.8	23.71	0.46	6.5	2.15	27.60	Horizontal	Pass	
	848.8	26.06	0.46	6.5	2.15	29.95	Vertical	Pass	
	824.2	21.15	0.44	6.5	2.15	25.06	Horizontal	Pass	
	824.2	23.51	0.44	6.5	2.15	27.42	Vertical	Pass	
EGPRS850	836.6	21.85	0.45	6.5	2.15	25.75	Horizontal	Pass	
EGFR3630	836.6	24.32	0.45	6.5	2.15	28.22	Vertical	Pass	
	848.8	21.97	0.46	6.5	2.15	25.86	Horizontal	Pass	
	848.8	24.46	0.46	6.5	2.15	28.35	Vertical	Pass	
Limit				ERP-	<7W=38.45c	dBm			

Radiated Power (ERP) for WCDMA Band 5								
		7.00	Result					
Mode	Frequency	S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	Conclusion
	826.4	15.96	0.44	6.5	2.15	19.87	Horizontal	Pass
	826.4	17.73	0.44	6.5	2.15	21.64	Vertical	Pass
WCDMA	836.6	15.37	0.45	6.5	2.15	19.27	Horizontal	Pass
VVCDIVIA	836.6	17.30	0.45	6.5	2.15	21.20	Vertical	Pass
	846.4	15.33	0.46	6.5	2.15	19.22	Horizontal	Pass
	846.4	17.27	0.46	6.5	2.15	21.16	Vertical	Pass
	826.4	15.11	0.44	6.5	2.15	19.02	Horizontal	Pass
	826.4	16.82	0.44	6.5	2.15	20.73	Vertical	Pass
HSUPA	836.6	15.52	0.45	6.5	2.15	19.42	Horizontal	Pass
HOUFA	836.6	17.28	0.45	6.5	2.15	21.18	Vertical	Pass
	846.4	15.77	0.46	6.5	2.15	19.66	Horizontal	Pass
	846.4	17.58	0.46	6.5	2.15	21.47	Vertical	Pass
	826.4	15.05	0.44	6.5	2.15	18.96	Horizontal	Pass
	826.4	16.77	0.44	6.5	2.15	20.68	Vertical	Pass
HSDPA	836.6	15.30	0.45	6.5	2.15	19.20	Horizontal	Pass
HODEA	836.6	17.28	0.45	6.5	2.15	21.18	Vertical	Pass
	846.4	15.77	0.46	6.5	2.15	19.66	Horizontal	Pass
	846.4	17.55	0.46	6.5	2.15	21.44	Vertical	Pass
Limit				ER	RP<7W=38.45	dBm		



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A4. OCCUPIED BANDWIDTH (99% OCCUPIED BANDWIDTH/26dB BANDWIDTH)

GSM Bandwidth [KHz]								
Mode	Lowest		Middle		Highest			
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW		
GPRS850	247.73	319.9	242.83	314.1	246.35	321.2		
EGPRS850	242.06	304.2	244.48	313.2	242.36	315.8		

WCDMA Bandwidth [MHz]								
Mode	Lowest		Middle		Highest			
	99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW		
WCDMA 5	4.1818	4.681	4.165	4.662	4.142	4.646		
HSDPA 5	4.181	4.674	4.172	4.662	4.1593	4.648		
HSUPA 5	4.183	4.676	4.169	4.665	4.16	4.654		

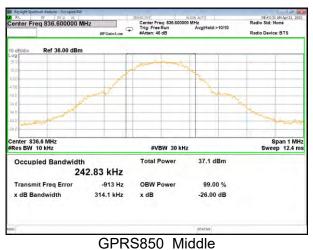




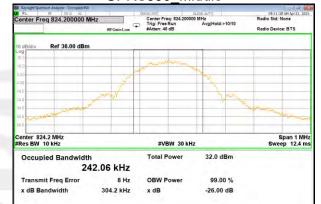
Transmit Freq Error

x dB Bandwidth





| Context | Section | Sect



GPRS850_High

OBW Power

x dB

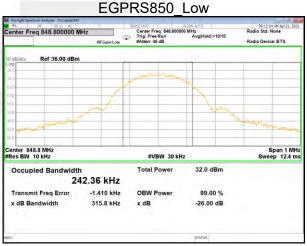
99.00 %

-26.00 dB

359 Hz

321.2 kHz

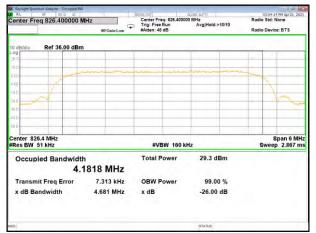
Keysight Spectrum Analyzer - Occupied #Wi				0 0
RL NF 50 0 AC Center Freq 836.600000 M	t-	Center Freq: 836,60000	ALIGN AUTO	08:52:54 AM Apr21, 2021 Radio Std: None
Center Fred 836.600000 W		Trig: Free Run	Avg Hold:>10/10	
	#IFGain:Low	#Atten: 46 dB		Radio Device: BTS
The second second				
10 dB/div Ref 36.00 dBm			_	
250				
16.0		and the state of the same		
6.00	1	100	1	
4101	- 100			
100	N.			
	- Mary Mark		James .	
04.0	4			
34 D				and the fall of the all
-14D Johnson Marie				-V-VIVA
-54 D				
Center 836.6 MHz				Span 1 MHz
#Res BW 10 kHz		#VBW 30 kH	z	Sweep 12.4 ms
Occupied Bandwidth		Total Power	31.9 dBm	
	4.48 kHz	2000000000	- 11- 1-11	
24	4.40 KHZ			
Transmit Freq Error	-704 Hz	OBW Power	99.00 %	
x dB Bandwidth	313.2 kHz	x dB	-26.00 dB	
	O TOLE IN LE		20,00	
MEG			STATUS	



EGPRS850_Middle

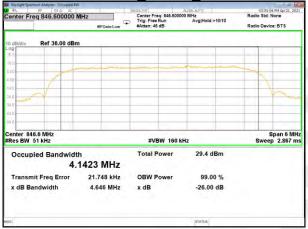
EGPRS850 High



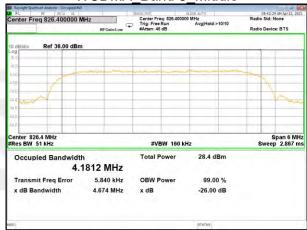




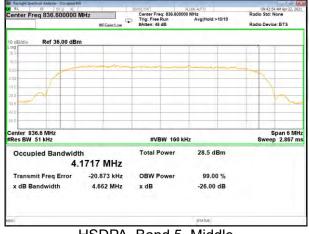
WCDMA Band 5 Low



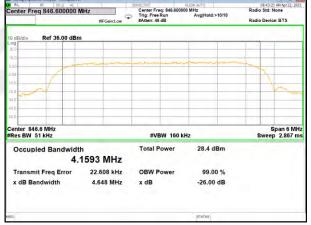
WCDMA_Band 5_Middle



WCDMA Band 5 High



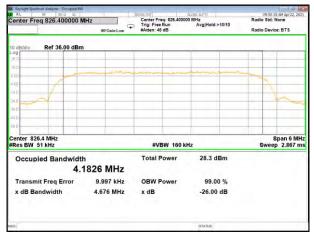
HSDPA Band 5 Low

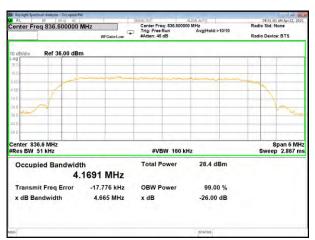


HSDPA Band 5 Middle

HSDPA Band 5 High

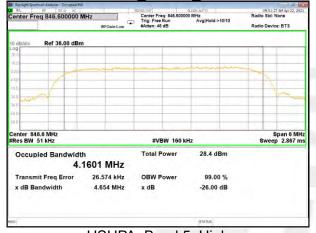






HSUPA_Band 5_Middle

HSUPA Band 5 Low



HSUPA_Band 5_High



A5. FREQUENCY STABILITY

Normal Voltage = 3.8V; Battery End Point (BEP) = 4.35V; Maximum Voltage =3.45V

	GPRS 850 /836.6MHz								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
remperature (C)	(Volt)	(Hz)	(ppm)	LIIIII	Nesuit				
50		33.55	0.040						
40		11.96	0.014						
30		29.47	0.035						
20]	35.92	0.043	2.5ppm	PASS				
10	Normal Voltage	32.94	0.039						
0		18.39	0.022						
-10		13.29	0.016						
-20		25.64	0.031						
-30		25.06	0.030						
20	Maximum Voltage	30.93	0.037						
20	BEP	13.77	0.016						

	EGPRS 850 /836.6MHz								
Tomporatura (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Dogult				
Temperature (°C)	(Volt)	(Hz)	(ppm)	LIIIIII	Result				
50		30.45	0.036						
40		33.28	0.040						
30		26.96	0.032						
20	Normal Voltage	17.87	0.021	2.5ppm	PASS				
10		32.44	0.039						
0		19.68	0.024						
-10		23.13	0.028						
-20		12.82	0.015						
-30		11.71	0.014						
20	Maximum Voltage	17.19	0.021	1					
20	BEP	15.22	0.018						

	UMTS Band 5 / 836.6MHz								
Taman anatuma (90)	Voltage	Freq. Dev.	Freq. Dev.	Linait	Dazult				
Temperature (°C)	(Volt)	(Hz)	(ppm)	Limit	Result				
50		27.49	0.033						
40		25.62	0.031						
30		25.25	0.030						
20		28.17	0.034	2.5ppm					
10	Normal Voltage	17.48	0.021						
0		22.47	0.027		PASS				
-10		11.78	0.014						
-20		19.91	0.024						
-30		18.00	0.022						
20	Maximum Voltage	21.84	0.026						
20	BEP	20.69	0.025						



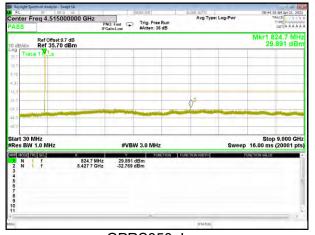
	HSDPA Band 5 / 836.6MHz								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result				
Temperature (C)	(Volt)		(ppm)	LIIIII	Nesuit				
50		27.94	0.033						
40		30.02	0.036						
30		18.65	0.022						
20]	15.01	0.018	2.5ppm	PASS				
10	Normal Voltage	31.36	0.037						
0		12.20	0.015						
-10		11.71	0.014						
-20		26.23	0.031						
-30		22.36	0.027						
20	Maximum Voltage	20.00	0.024	1					
20	BEP	35.39	0.042						

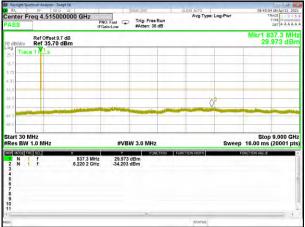
HSUPA Band 5 / 836.6MHz								
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit 2.5ppm	Result			
Temperature (°C)	(Volt)	(Hz)	(ppm)		Nesuit			
50		20.74	0.025					
40		36.09	0.043					
30		29.54	0.035					
20		16.48	0.020	2.5ppm				
10	Normal Voltage	13.65	0.016					
0		18.63	0.022		PASS			
-10		36.42	0.044					
-20		24.38	0.029					
-30		13.34	0.016					
20	Maximum Voltage	23.91	0.029	1				
20	BEP	21.58	0.026					

^{1.} The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

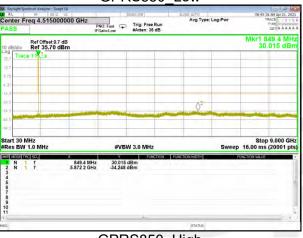


A6. SPURIOUS EMISSIONS AT ANTENNA TERMINALS





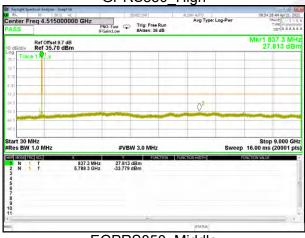
GPRS850_Low



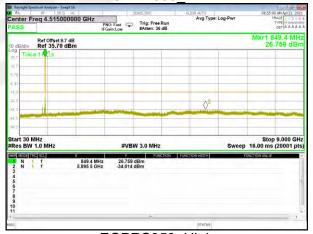
GPRS850 Middle



GPRS850 High



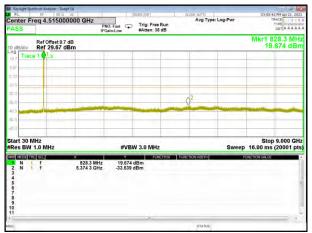
EGPRS850 Low

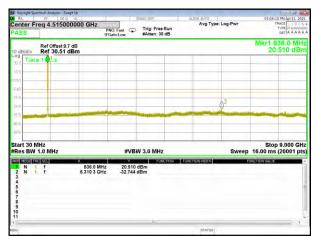


EGPRS850_Middle

EGPRS850_High







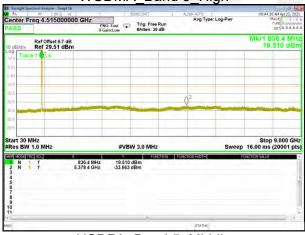
WCDMA Band 5 Low

| Supplementation | Supplement

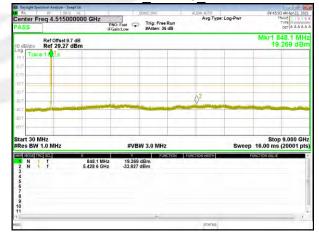
WCDMA_Band 5_Middle



WCDMA_Band 5_High



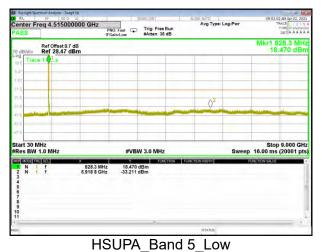
HSDPA_Band 5_Low

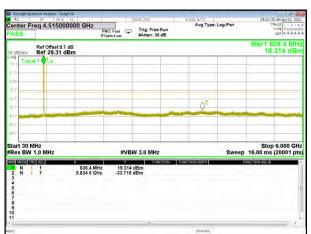


HSDPA Band 5 Middle

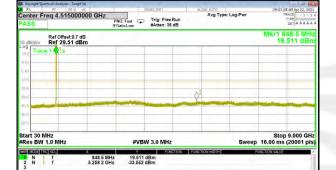
HSDPA Band 5 High







HSUPA_Band 5_Middle



HSUPA_Band 5_High



A7. BAND EDGE









EGPRS850 High







WCDMA_Band 5_Low



WCDMA_Band 5_High



HSDPA_Band 5_Low



HSDPA_Band 5_High



HSUPA Band 5 Low

HSUPA_Band 5_High



A8. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Note: (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequeny below 1000MHz.

- (2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value
- (3)Test is divided into three directions, X/Y/Z. X pattern for the worst.

GPRS 850: (30-9000)MHz								
The Worst Test Results Channel 128/824.2 MHz								
	S G.Lev	۸ ۱۰۰ (ما D: /	1	PMea	Limit	Margin	Polarity	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)		
1648.20	-40.34	9.40	4.75	-35.69	-13.00	-22.69	Н	
2472.29	-40.11	10.60	8.39	-37.90	-13.00	-24.90	Н	
3296.72	-31.43	12.00	11.79	-31.22	-13.00	-18.22	Н	
1648.03	-43.14	9.40	4.75	-38.49	-13.00	-25.49	V	
2472.23	-45.21	10.60	8.39	-43.00	-13.00	-30.00	V	
3296.55	-43.10	12.00	11.79	-42.89	-13.00	-29.89	V	
The Worst Test Results Channel 190/836.6 MHz								
Гио от то по т // М. I =)	S G.Lev	A mt/dDi)	A 4/-ID:\	Lana	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1672.82	-41.50	9.50	4.76	-36.76	-13.00	-23.76	Н	
2509.87	-40.46	10.70	8.40	-38.16	-13.00	-25.16	Н	
3345.97	-31.75	12.20	11.80	-31.35	-13.00	-18.35	Н	
1673.20	-44.27	9.40	4.75	-39.62	-13.00	-26.62	V	
2509.58	-44.34	10.60	8.39	-42.13	-13.00	-29.13	V	
3346.10	-42.62	12.20	11.82	-42.24	-13.00	-29.24	V	
	The Wo	rst Test Res	sults Cha	nnel 251/8	348.8 MHz			
Гио и и о и о и (NALI—)	S G.Lev	A := 4 (= 1 D : \	1	PMea	Limit	Margin	Polarity	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)		
1697.66	-40.24	9.60	4.77	-35.41	-13.00	-22.41	Н	
2546.24	-40.50	10.80	8.50	-38.20	-13.00	-25.20	Н	
3395.16	-32.18	12.50	11.90	-31.58	-13.00	-18.58	Н	
1697.18	-43.44	9.60	4.77	-38.61	-13.00	-25.61	V	
2546.49	-44.23	10.80	8.50	-41.93	-13.00	-28.93	V	
3395.15	-43.28	12.50	11.90	-42.68	-13.00	-29.68	V	



EGPRS 850: (30-9000)MHz									
The Worst Test Results Channel 128/824.2 MHz									
Гио от то от (NALL—)	S G.Lev	S G.Lev	S G.Lev	۸ - + (ما D :)	Loop	PMea	Limit	Margin	Polarity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polanty		
1648.43	-40.43	9.40	4.75	-35.78	-13.00	-22.78	Н		
2472.52	-40.65	10.60	8.39	-38.44	-13.00	-25.44	Н		
3296.44	-31.89	12.00	11.79	-31.68	-13.00	-18.68	Н		
1648.06	-44.52	9.40	4.75	-39.87	-13.00	-26.87	V		
2472.50	-45.18	10.60	8.39	-42.97	-13.00	-29.97	V		
3296.50	-43.64	12.00	11.79	-43.43	-13.00	-30.43	V		
	The Wo	rst Test Res	sults Cha	nnel 190/8	336.6 MHz				
Fraguenov(MHz)	S G.Lev	Ant(dBi) Loss	Loop	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)		(dBm)	(dBm)	(dBm)	Polarity			
1672.90	-41.09	9.50	4.76	-36.35	-13.00	-23.35	Н		
2509.73	-39.30	10.70	8.40	-37.00	-13.00	-24.00	Н		
3346.30	-31.59	12.20	11.80	-31.19	-13.00	-18.19	Н		
1672.88	-43.58	9.40	4.75	-38.93	-13.00	-25.93	V		
2509.45	-44.54	10.60	8.39	-42.33	-13.00	-29.33	V		
3346.07	-43.98	12.20	11.82	-43.60	-13.00	-30.60	V		
	The Wo	rst Test Res	sults Cha	nnel 251/8	348.8 MHz				
Fraguenov/MHz)	S G.Lev	Ant/dDi)	Loop	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
1697.23	-40.52	9.60	4.77	-35.69	-13.00	-22.69	Н		
2546.09	-39.91	10.80	8.50	-37.61	-13.00	-24.61	Н		
3395.03	-31.24	12.50	11.90	-30.64	-13.00	-17.64	Н		
1697.22	-44.01	9.60	4.77	-39.18	-13.00	-26.18	V		
2546.46	-44.21	10.80	8.50	-41.91	-13.00	-28.91	V		
3394.85	-42.82	12.50	11.90	-42.22	-13.00	-29.22	V		



WCDMA Band 5: (30-9000)MHz									
The wost testresults channel 4132/826.4MHz									
	S G.Lev	S G.Lev	S G.Lev	۸ ۱۰۰ (ما D: /	Laga	PMea	Limit	Margin	Delevity
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity		
1652.12	-40.31	9.40	4.75	-35.66	-13.00	-22.66	Н		
2479.54	-40.22	10.60	8.39	-38.01	-13.00	-25.01	Н		
3305.43	-31.68	12.00	11.79	-31.47	-13.00	-18.47	Н		
1652.20	-43.83	9.40	4.75	-39.18	-13.00	-26.18	V		
2479.51	-43.97	10.60	8.39	-41.76	-13.00	-28.76	V		
3305.76	-42.98	12.00	11.79	-42.77	-13.00	-29.77	V		
	The Worst Test Results Channel 4183/836.6MHz								
Fraguenov/MHz)	S G.Lev	Apt/dDi\	Loop	PMea	Limit	Margin	Dolority		
Frequency(MHz)	(dBm)	Ant(ubi)	Ant(dBi) Loss	(dBm)	(dBm)	(dBm)	Polarity		
1673.17	-40.47	9.40	4.75	-35.82	-13.00	-22.82	Н		
2509.57	-40.36	10.60	8.39	-38.15	-13.00	-25.15	Н		
3345.99	-32.26	12.00	11.79	-32.05	-13.00	-19.05	Н		
1673.12	-43.18	9.40	4.75	-38.53	-13.00	-25.53	V		
2509.87	-44.78	10.60	8.39	-42.57	-13.00	-29.57	V		
3346.16	-43.18	12.00	11.79	-42.97	-13.00	-29.97	V		
	The Wo	rst Test Res	ults Cha	nnel 4233	/846.6MHz				
Frequency(MHz)	S G.Lev	Ant(dDi)	Loss	PMea	Limit	Margin	Delevity		
Frequency(Miriz)	(dBm)	Ant(dBi)	LUSS	(dBm)	(dBm)	(dBm)	Polarity		
1693.61	-41.43	9.40	4.75	-36.78	-13.00	-23.78	Н		
2539.24	-39.76	10.60	8.39	-37.55	-13.00	-24.55	Н		
3385.99	-31.94	12.00	11.79	-31.73	-13.00	-18.73	Н		
1693.21	-44.42	9.40	4.75	-39.77	-13.00	-26.77	V		
2539.42	-45.12	10.60	8.39	-42.91	-13.00	-29.91	V		
3386.33	-42.79	12.00	11.79	-42.58	-13.00	-29.58	V		



HSUPA Band 5: (30-9000)MHz								
The wost testresults channel 4132/826.4MHz								
Frequency(MHz)	S G.Lev	OSI IESITESU	its Grain	. PMea	Limit	Margin		
	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1652.43	-40.56	9.40	4.75	-35.91	-13.00	-22.91	Н	
2479.55	-40.28	10.60	8.39	-38.07	-13.00	-25.07	H	
3305.55	-32.13	12.00	11.79	-31.92	-13.00	-18.92	H	
1652.27	-44.04	9.40	4.75	-39.39	-13.00	-26.39	V	
2479.57	-45.35	10.60	8.39	-43.14	-13.00	-30.14	V	
3305.64	-43.23	12.00	11.79	-43.02	-13.00	-30.02	V	
0000.04	l .	rst Test Res				00.02	v	
	S G.Lev		Tarto Orial	PMea	Limit	Margin		
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1673.22	-41.17	9.40	4.75	-36.52	-13.00	-23.52	Н	
2509.82	-40.63	10.60	8.39	-38.42	-13.00	-25.42	Н	
3346.23	-32.15	12.00	11.79	-31.94	-13.00	-18.94	Н	
1673.18	-43.74	9.40	4.75	-39.09	-13.00	-26.09	V	
2509.55	-44.23	10.60	8.39	-42.02	-13.00	-29.02	V	
3346.19	-43.52	12.00	11.79	-43.31	-13.00	-30.31	V	
	The Wo	rst Test Res	ults Cha	nnel 4233/	/846.6MHz			
Fragues av/MII=)	S G.Lev	Λ ω t/ dD:\	Lana	PMea	Limit	Margin	Delevity	
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity	
1693.62	-40.88	9.40	4.75	-36.23	-13.00	-23.23	Н	
2539.26	-39.25	10.60	8.39	-37.04	-13.00	-24.04	Н	
3386.28	-31.53	12.00	11.79	-31.32	-13.00	-18.32	Н	
1693.38	-43.27	9.40	4.75	-38.62	-13.00	-25.62	V	
2539.07	-45.24	10.60	8.39	-43.03	-13.00	-30.03	V	
3386.20	-42.70	12.00	11.79	-42.49	-13.00	-29.49	V	



HSDPA Band 5: (30-9000)MHz										
The wost testresults channel 4132/826.4MHz										
Гио от то и (NALL=)	、 S G.Lev	S G.Lev	S G.Lev	S G.Lev	Ant/dDi\	Loop	PMea	Limit	Margin	Dolority
Frequency(MHz)	(dBm)	Ant(dBi)	Loss	(dBm)	(dBm)	(dBm)	Polarity			
1652.22	-41.10	9.40	4.75	-36.45	-13.00	-23.45	Н			
2479.47	-40.02	10.60	8.39	-37.81	-13.00	-24.81	Н			
3305.79	-32.03	12.00	11.79	-31.82	-13.00	-18.82	Н			
1652.28	-43.72	9.40	4.75	-39.07	-13.00	-26.07	V			
2479.57	-45.28	10.60	8.39	-43.07	-13.00	-30.07	V			
3305.88	-42.99	12.00	11.79	-42.78	-13.00	-29.78	V			
	The Worst Test Results Channel 4183/836.6MHz									
Frequency(MHz)	S G.Lev	Ant(dBi) Loss	Locc	PMea	Limit	Margin	Polarity			
Frequency(MHZ)	(dBm)		(dBm)	(dBm)	(dBm)	Polarity				
1673.25	-41.46	9.40	4.75	-36.81	-13.00	-23.81	Н			
2509.48	-39.80	10.60	8.39	-37.59	-13.00	-24.59	Н			
3346.02	-30.87	12.00	11.79	-30.66	-13.00	-17.66	Н			
1673.09	-43.82	9.40	4.75	-39.17	-13.00	-26.17	V			
2509.48	-44.98	10.60	8.39	-42.77	-13.00	-29.77	V			
3346.36	-43.41	12.00	11.79	-43.20	-13.00	-30.20	V			
	The Wo	rst Test Res	ults Cha	nnel 4233	/846.6MHz					
Frequency(MHz)	S G.Lev	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity			
Frequency(Miriz)	(dBm)	Ant(ubi)	LOSS	(dBm)	(dBm)	(dBm)	Polarity			
1693.64	-41.17	9.40	4.75	-36.52	-13.00	-23.52	Н			
2539.07	-39.33	10.60	8.39	-37.12	-13.00	-24.12	Н			
3386.29	-32.04	12.00	11.79	-31.83	-13.00	-18.83	Н			
1693.33	-44.06	9.40	4.75	-39.41	-13.00	-26.41	V			
2539.46	-44.02	10.60	8.39	-41.81	-13.00	-28.81	V			
3386.27	-42.54	12.00	11.79	-42.33	-13.00	-29.33	V			



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * * END OF THE REPORT * * * *

