RADIO TEST REPORT

Report No: STS1703204F01

Issued for

LB Technology

5100 Poplar Ave. Memphis Tennessee United States 38137

| Product Name: | 9.6 Inch 4G Tablet |
|----------------|----------------------|
| Brand Name: | LB Technology |
| Model Name: | WGHK26009 |
| Series Model: | N/A |
| FCC ID: | 2ADCR-WGHK26009 |
| Test Standard: | FCC Part 22H and 24E |

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TEST RESULT CERTIFICATION

| Applicant's name: | LB Technology |
|------------------------------|--|
| Address | 5100 Poplar Ave. Memphis Tennessee United States 38137 |
| Manufacture's Name | LB Technology |
| Address: | 5100 Poplar Ave. Memphis Tennessee United States 38137 |
| Product name: | 9.6 Inch 4G Tablet |
| Brand name: | LB Technology |
| Model and/or type reference: | WGHK26009 |
| Standards | FCC Part 22H and 24E |
| Test procedure | . ANSI/TIA 603-D (2010) |

This device described above has been tested by BZT, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of performance of tests 27 Mar. 2017 ~ 13 Apr. 2017

Date of Issue 17 Apr. 2017

Test Result Pass

Testing Engineer

:

(Leoli)

Technical Manager :

(Tony liu)

Authorized Signatory :

(Vita Li)

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Revision History

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|------|--------------|---------------|-------------|---------------|
| 00 | 17 Apr. 2017 | STS1703204F01 | 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 ANSI/TIA-603-D:

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2010,KDB 971168 D01 v02r02 and KDB 648474 D03 v01r04

| FCC Rules | Test Description | Test Limit | Test Result | Reference |
|----------------------------|--|--|-------------|-----------|
| 2.1049 | Conducted OutputPower | Reporting Only | PASS | |
| 2.0146 24.232 | Peak-to-AverageRatio | < 13 dB | PASS | |
| 2.1046 22.913 24.232 | Effective Radiated Pow- er/Equivalent Isotropic Radiated Power | < 7 Watts max. ERP(Part 22) < 2 Watts max. EIRP(Part 24) | PASS | |
| 2.1049 22.917 24.238 | Occupied Bandwidth | Reporting Only | PASS | |
| 2.1055 22.355 24.235 | Frequency Stability | < 2.5 ppm (Part 22) Emission must remain in band (Part 24) | PASS | |
| 2.1051 22.917 24.238 | Spurious Emission at Antenna Terminals | < 43+10log10(P[Watts]) | PASS | |
| 2.1053 22.917 24.238 | Field Strength of Spurious Radiation | < 43+10log10(P[Watts]) | PASS | |
| 2.1051 22.917 24.238 | Band Edge | < 43+10log10(P[Watts]) | PASS | |

1 INTRODUCTION 1.1 TEST FACTORY BZT Testing Technology Co., Ltd. Add. : Buliding 17, Xinghua Road Xingwei industrial Park Fuyong, Baoan District, Shenzhen, Guangdong, China FCC Registration No.: 701733

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. \circ

| No. | Item | Uncertainty |
|-----|--|-------------|
| 1 | RF power, conducted | ±0.70dB |
| 2 | Spurious emissions, conducted | ±1.19dB |
| 5 | All emissions,radiated(<1G) 30MHz-200MHz | ±2.83dB |
| 6 | All emissions,radiated(<1G) 200MHz-1000MHz | ±2.94dB |
| 7 | All emissions, radiated (>1G) | ±3.03dB |
| 8 | Temperature | ±0.5°C |
| 9 | Humidity | ±2% |

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2 PRODUCT INFORMATION

| Product Designation: | 9.6 Inch 4G Tablet |
|------------------------------|--|
| Hardware version number: | N/A |
| Software version number: | N/A |
| FCC ID: | 2ADCR-WGHK26009 |
| | GSM/GPRS/EDGE: |
| | 850: 824.2 MHz ~ 848.8 MHz |
| | 1900: 1850.2 MHz ~ 1909.8MHz |
| Tx Frequency: | WCDMA: |
| | Band V: 826.4 MHz ~ 846.6 MHz |
| | Band II: 1852.4 MHz ~ 1907.6 MHz |
| | GSM/GPRS/EDGE: |
| | 850: 869.2 MHz ~ 893.8 MHz |
| Rx Frequency: | 1900: 1930.2 MHz ~ 1989.8 MHz |
| KX Flequency. | WCDMA: |
| | Band V: 871.4 MHz ~ 891.6 MHz |
| | Band II: 1932.4 MHz ~ 1987.6 MHz |
| Max RF Output Power: | GSM850:32.83dBm,PCS1900:30.62dBm GPRS850:32.67dBm,GPRS1900:30.17dBm EDGE850:32.63dBm,EDGE1900:30.08dBm WCDMABand V:22.68dBm,WCDMA Band II:21.88dBm |
| Type of Emission: | GSM(850): 319KGXW; GSM(1900): 321KGXW GPRS(850): 316KGXW; GPRS(1900): 321KGXW EDGE(850): 321KG7W; EDGE(1900): 321KG7W WCDMA850: 4M69F9W WCDMA1900: 4M69F9W |
| 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 |
| Antonno goini | GSM 850: -3dBi ,PCS 1900: 0dBi |
| Antenna gain: | WCDMA 850: -3dBi, WCDMA1900: 0dBi |
| Power Supply: | DC 3.8V by battery |
| Battery parameter: | Capacity: 6000mAh, Rated Voltage: 3.8V |
| GPRS/EDGE Class: | Multi-Class12 |
| Extreme Vol. Limits: | DC3.7 V to 4.35V (Nominal DC3.8V) |
| Extreme Temp. Tolerance: | -20℃ to +45℃ |
| ** Note: The High Voltage 4 | 35V and Low Voltage 3.7 V was declared by manufacturer, The |
| EUT couldn't be operate norm | nally 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 Power Meas. License Digital Systems with maximum output power.

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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.

2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

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 | GSM LINK GPRS/EDGE CLASS 12 LINK | GSM LINK GPRS/EDGE CLASS 12 LINK | |
| GSM 1900 | GSM LINK GPRS/EDGE CLASS 12 LINK | GSM LINK GPRS/EDGE CLASS 12 LINK | |
| WCDMA BAND V | RMC 12.2KBPS LINK | RMC 12.2KBPS LINK | |
| WCDMA BAND II | RMC 12.2KBPS LINK | RMC 12.2KBPS LINK | |

4 MEASUREMENT INSTRUMENTS

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibra- tion | Calibrated Until |
|--|--------------------------|-----------------|----------------|-----------------------|------------------|
| Spectrum Analyzer | Agilent | E4407B | MY50140340 | 2016.10.23 | 2017.10.22 |
| Signal Analyzer | Agilent | N9020A | MY49100060 | 2016.10.23 | 2017.10.22 |
| Test Receiver | R&S | ESCI | 101427 | 2016.10.23 | 2017.10.22 |
| Communication Tester | Agilent | 8960 | MY48360751 | 2016.10.23 | 2017.10.22 |
| Communication Tester | R&S | CMU200 | 112012 | 2016.10.23 | 2017.10.22 |
| Test Receiver | R&S | ESCI | 102086 | 2016.10.23 | 2017.10.22 |
| Bilog Antenna | TESEQ | CBL6111D | 34678 | 2014.11.24 | 2017.11.23 |
| Bilog Antenna (Calibration antenna) | TESEQ | CBL6111D | 34678 | 2014.11.24 | 2017.11.23 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-1343 | 2015.03.05 | 2018.03.04 |
| Horn Antenna (Calibration antenna) | Schwarzbeck | BBHA 9120D | 9120D-1343 | 2015.03.05 | 2018.03.04 |
| MXA SIGNAL Analyzer | Agilent | N9020A | MY49100060 | 2016.10.23 | 2017.10.22 |
| Double Ridge Horn An- tenna | COM-POWER CORPORATION | AH-840 | AHA-840 | 2016.10.23 | 2017.10.22 |
| Low frequency cable | N/A | R01 | N/A | NCR | NCR |
| High frequency cable | SCHWARZBECK | AK9515H | SN-96286/96287 | NCR | NCR |
| Vector signal generator | Agilent | E8257D-521 | MY45141029 | 2016.10.23 | 2017.10.22 |
| Power amplifier | DESAY | ZHL-42W | 9638 | 2016.10.23 | 2017.10.22 |
| Band Reject fil- ter(1920-1980MHz) | COM-MW | ZBSF-1920-1980 | 0092 | 2016.10.23 | 2017.10.22 |
| Band Reject fil- ter(880-915MHz) | COM-MW | ZBSF-C897.5-35 | 707 | 2016.10.23 | 2017.10.22 |
| Band Reject fil- ter(1710-1785MHz) | COM-MW | ZBSF-C1747.5-75 | 708 | 2016.10.23 | 2017.10.22 |
| Band Reject fil- ter(1850-1910MHz) | COM-MW | ZBSF-C1880-60 | 709 | 2016.10.23 | 2017.10.22 |
| Band Reject fil- ter(2500-2570MHz) | COM-MW | ZBSF-C2535-70 | 710 | 2016.10.23 | 2017.10.22 |
| Highpass Filter | WHKX7.0/18G-8SS | Wainwright | 18 | 2016.10.23 | 2017.10.22 |

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

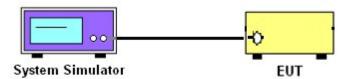
Test overview

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



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5.2 PEAK TO AVERAGE RATIO

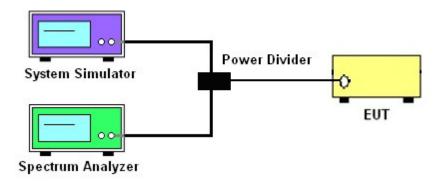
TEST OVERVIEW

According to §24.232(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, equipment employed must be authorized in accordance with the provisions of §24.51. 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 v02r02 section
- 2. The eut was connected to the 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



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/TIA-603-D-2010 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

 The testing follows FCC KDB 971168 D01 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-D-2010 Section 2.2.17.
 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 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/ERP was calculated with the correction factor,

ERP/EIRP = P.SG + GT - LC

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMe as, typically dBW or dBm);

PMeas(PK) = measured transmitter output power or PSD, in dBm or dBW;

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

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

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.

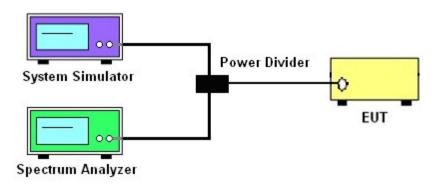
All modes of operation were investigated and the worst case configuration results are reported in this section.

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 \ge 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



5.5 FREQUENCY STABILITY

Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-D-2010. 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 $\pm 0.00025\%$ (± 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 fcckdb 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

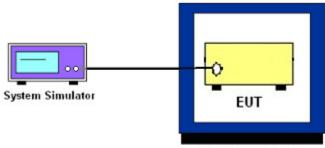
1. The testing follows FCC KDB 971168 D01 Section 9.0.

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



Thermal Chamber

5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS <u>Test Overview</u>

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 v02r02 Section 6.0. and ANSI/TIA-603-D-2010-Section 2.2.13.2(d)

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.

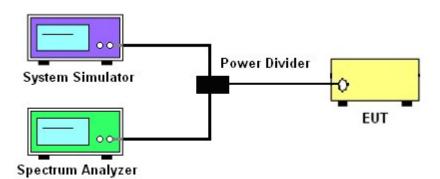
7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

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

= -13dBm.

Test Setup



5.7 BAND EDGE

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 v02r02 Section 6.0. and ANSI/TIA-603-D-2010-Section 2.2.13.2(d)

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.

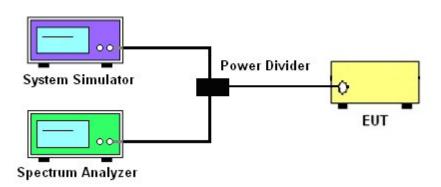
7.The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

= P(W) - [43 + 10log(P)] (dB)

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

= -13dBm.

TEST SETUP



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5.8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

<u>Test overview</u>

Radiated spurious emissions measurements are performed using the substitution method described inANSI/TIA-603-D-2010 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/TIA-603-D-2010-Section 2.2.12.2(b)

- 2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 3. VBW \ge 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-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/ERP was calculated with the correction factor,

ERP/EIRP = P.SG + GT - LC

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, t ypically dBW or dBm);

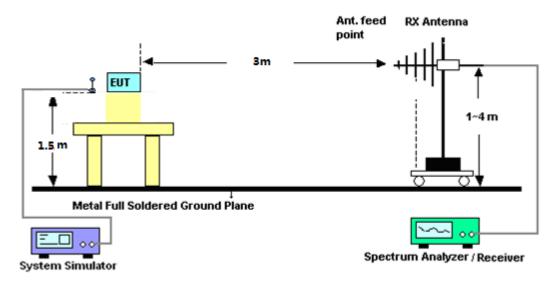
P.SG = measured transmitter output power or PSD, in dBm or dBW;

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

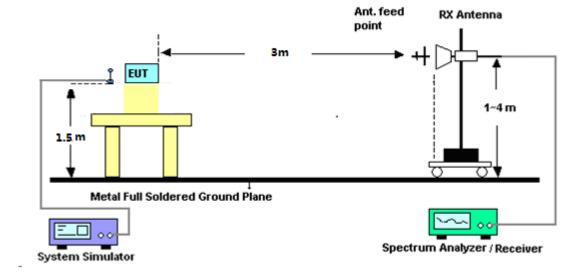
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



APPENDIX ATESTRESULT A1CONDUCTED OUTPUT POWER

GSM 850:

| Mode | Frequency (MHz) AVG Powe | |
|---------------------|--------------------------|-------|
| | 824.2 | 32.48 |
| GSM850 | 836.6 | 32.66 |
| | 848.8 | 32.83 |
| GPRS850 | 824.2 | 32.35 |
| | 836.6 | 32.51 |
| | 848.8 | 32.67 |
| EDGE850 (1 Slot) | 824.2 | 32.31 |
| | 836.6 | 32.48 |
| | 848.8 | 32.63 |

PCS 1900:

| Mode | Frequency (MHz) | AVG Power |
|----------------------|-----------------|-----------|
| | 1850.2 | 30.41 |
| GSM1900 | 1880.0 | 30.62 |
| | 1909.8 | 30.22 |
| GPRS1900 | 1850.2 | 30.02 |
| | 1880.0 | 30.17 |
| | 1909.8 | 29.81 |
| EDGE1900 (1 Slot) | 1850.2 | 30.01 |
| | 1880.0 | 30.08 |
| | 1909.8 | 29.56 |

UMTS BAND V

| Mode | Frequency(MHz) | AVG Power |
|--------------------|----------------|-----------|
| | 826.4 | 22.29 |
| WCDMA 850 RMC | 836.6 | 22.43 |
| RIVIC | 846.6 | 22.63 |
| | 826.4 | 22.01 |
| HSDPA Subtest 1 | 836.6 | 22.45 |
| Sublest | 846.6 | 22.68 |
| | 826.4 | 21.54 |
| HSDPA Subtest 2 | 836.6 | 22.04 |
| Sublest 2 | 846.6 | 22.24 |
| | 826.4 | 21.10 |
| HSDPA Subtest 3 | 836.6 | 21.58 |
| Sublest 5 | 846.6 | 21.93 |
| | 826.4 | 20.67 |
| HSDPA Subtest 4 | 836.6 | 21.16 |
| Sublest 4 | 846.6 | 21.45 |
| | 826.4 | 21.97 |
| HSUPA Subtest 1 | 836.6 | 22.38 |
| Sublesi | 846.6 | 22.24 |
| | 826.4 | 21.06 |
| HSUPA Subtest 2 | 836.6 | 21.38 |
| Sublest 2 | 846.6 | 21.28 |
| | 826.4 | 20.95 |
| HSUPA Subtest 3 | 836.6 | 20.94 |
| Sublest 3 | 846.6 | 20.82 |
| | 826.4 | 20.60 |
| HSUPA Subtest 4 | 836.6 | 20.59 |
| JUDIESI 4 | 846.6 | 20.33 |
| | 826.4 | 19.11 |
| HSUPA | 836.6 | 19.17 |
| Subtest 5 | 846.6 | 18.86 |

UMTS BAND II

| Mode | Frequency(MHz) | AVG Power |
|--------------------|----------------|-----------|
| | 1852.4 | 21.88 |
| WCDMA 1900 RMC | 1880 | 21.87 |
| | 1907.6 | 21.48 |
| | 1852.4 | 21.65 |
| HSDPA Subtest 1 | 1880 | 21.57 |
| Oublest 1 | 1907.6 | 21.12 |
| | 1852.4 | 21.18 |
| HSDPA Subtest 2 | 1880 | 21.12 |
| Sublest 2 | 1907.6 | 20.71 |
| | 1852.4 | 20.71 |
| HSDPA Subtest 3 | 1880 | 20.64 |
| Sublest 5 | 1907.6 | 20.22 |
| | 1852.4 | 20.23 |
| HSDPA Subtest 4 | 1880 | 20.16 |
| Sublest 4 | 1907.6 | 19.84 |
| | 1852.4 | 21.63 |
| HSUPA Subtest 1 | 1880 | 21.51 |
| Sublest | 1907.6 | 20.64 |
| | 1852.4 | 20.79 |
| HSUPA Subtest 2 | 1880 | 20.59 |
| Sublest 2 | 1907.6 | 19.68 |
| | 1852.4 | 20.62 |
| HSUPA Subtest 3 | 1880 | 20.10 |
| Sublest 5 | 1907.6 | 19.20 |
| | 1852.4 | 20.20 |
| HSUPA Subtest 4 | 1880 | 19.65 |
| | 1907.6 | 18.78 |
| | 1852.4 | 18.72 |
| HSUPA Subtest 5 | 1880 | 18.19 |
| Sublest 3 | 1907.6 | 17.35 |
| | | |

Report No.: STS1703204F01

A2 PEAK-TO-AVERAGE RADIO

PCS 1900:

| Mode | Frequency (MHz) | PEAK Power | AVG Power | PAR |
|----------|-----------------|------------|-----------|------|
| | 1850.2 | 30.51 | 30.41 | 0.10 |
| PCS1900 | 1880 | 30.73 | 30.62 | 0.11 |
| | 1909.8 | 30.33 | 30.22 | 0.11 |
| | 1850.2 | 30.13 | 30.02 | 0.11 |
| GPRS1900 | 1880 | 30.27 | 30.17 | 0.10 |
| | 1909.8 | 29.92 | 29.81 | 0.11 |
| EDGE1900 | 1850.2 | 30.11 | 30.01 | 0.10 |
| | 1880 | 30.19 | 30.08 | 0.11 |
| (1 Slot) | 1909.8 | 29.66 | 29.56 | 0.10 |

UMTS BAND II:

| Mode | Frequency (MHz) | PEAK Power | AVG Power | PAR |
|-------------------|-----------------|------------|-----------|------|
| | 1852.4 | 24.65 | 21.88 | 2.77 |
| WCDMA 1900 RMC | 1880 | 24.6 | 21.87 | 2.73 |
| | 1907.6 | 24.21 | 21.48 | 2.73 |
| | 1852.4 | 24.35 | 21.65 | 2.70 |
| HSDPA 1900 | 1880 | 24.28 | 21.57 | 2.71 |
| | 1907.6 | 23.98 | 21.12 | 2.86 |
| | 1852.4 | 24.32 | 21.63 | 2.69 |
| HSUPA 1900 | 1880 | 24.15 | 21.51 | 2.64 |
| | 1907.6 | 23.54 | 20.64 | 2.90 |

23 of 65

A3 TRANSMITTER RADIATED POWER (EIRP/ERP)

| | Radiated Power (ERP) for GSM 850 MHZ | | | | | | | |
|---------|--------------------------------------|--------------------|---------------|---------------|---------------------|-----------------------------|------------|--|
| | | | | | | | | |
| Mode | Frequency | S G.Level (dBm) | Cable loss | Gain (dBi) | PMeas E.R.P(dBm) | Polarization Of Max. ERP | Conclusion | |
| | 824.2 | 23.67 | 0.44 | 6.5 | 29.73 | Horizontal | Pass | |
| | 824.2 | 25.49 | 0.44 | 6.5 | 31.55 | Vertical | Pass | |
| GSM850 | 836.6 | 23.46 | 0.45 | 6.5 | 29.51 | Horizontal | Pass | |
| G210020 | 836.6 | 25.43 | 0.45 | 6.5 | 31.48 | Vertical | Pass | |
| | 848.8 | 24.73 | 0.46 | 6.5 | 30.77 | Horizontal | Pass | |
| | 848.8 | 26.63 | 0.46 | 6.5 | 32.67 | Vertical | Pass | |
| | 824.2 | 23.68 | 0.44 | 6.5 | 29.74 | Horizontal | Pass | |
| | 824.2 | 25.42 | 0.44 | 6.5 | 31.48 | Vertical | Pass | |
| GPRS850 | 836.6 | 23.54 | 0.45 | 6.5 | 29.59 | Horizontal | Pass | |
| GPR3030 | 836.6 | 25.30 | 0.45 | 6.5 | 31.35 | Vertical | Pass | |
| | 848.8 | 24.85 | 0.46 | 6.5 | 30.89 | Horizontal | Pass | |
| | 848.8 | 26.48 | 0.46 | 6.5 | 32.52 | Vertical | Pass | |
| | 824.2 | 23.52 | 0.44 | 6.5 | 29.58 | Horizontal | Pass | |
| | 824.2 | 25.40 | 0.44 | 6.5 | 31.46 | Vertical | Pass | |
| | 836.6 | 23.72 | 0.45 | 6.5 | 29.77 | Horizontal | Pass | |
| EDGE850 | 836.6 | 25.28 | 0.45 | 6.5 | 31.33 | Vertical | Pass | |
| | 848.8 | 24.65 | 0.46 | 6.5 | 30.69 | Horizontal | Pass | |
| | 848.8 | 26.38 | 0.46 | 6.5 | 32.42 | Vertical | Pass | |

Report No.: STS1703204F01

| | Radiated Power (EIRP) for PCS 1900 MHZ | | | | | | | |
|----------|--|-----------|-------|-------|---------------|--------------|------------|--|
| | | | | R | esult | | | |
| Mode | Frequency | S G.Level | Cable | Gain | PMeas | Polarization | Conclusion | |
| | | (dBm) | loss | (dBi) | E.I.R.P.(dBm) | Of Max.EIRP. | | |
| | 1850.2 | 19.52 | 2.41 | 10.35 | 27.46 | Horizontal | Pass | |
| | 1850.2 | 21.4 | 2.41 | 10.35 | 29.34 | Vertical | Pass | |
| PCS1900 | 1880 | 19.84 | 2.42 | 10.35 | 27.77 | Horizontal | Pass | |
| FC31900 | 1880 | 21.71 | 2.42 | 10.35 | 29.64 | Vertical | Pass | |
| | 1909.8 | 19.9 | 2.43 | 10.35 | 27.82 | Horizontal | Pass | |
| | 1909.8 | 21.79 | 2.43 | 10.35 | 29.71 | Vertical | Pass | |
| | 1850.2 | 19.62 | 2.41 | 10.35 | 27.56 | Horizontal | Pass | |
| | 1850.2 | 21.33 | 2.41 | 10.35 | 29.27 | Vertical | Pass | |
| GPRS1900 | 1880 | 19.73 | 2.42 | 10.35 | 27.66 | Horizontal | Pass | |
| GPRS1900 | 1880 | 21.5 | 2.42 | 10.35 | 29.43 | Vertical | Pass | |
| | 1909.8 | 19.99 | 2.43 | 10.35 | 27.91 | Horizontal | Pass | |
| | 1909.8 | 21.58 | 2.43 | 10.35 | 29.5 | Vertical | Pass | |
| | 1850.2 | 19.7 | 2.41 | 10.35 | 27.64 | Horizontal | Pass | |
| | 1850.2 | 21.23 | 2.41 | 10.35 | 29.17 | Vertical | Pass | |
| EDGE1900 | 1880 | 19.76 | 2.42 | 10.35 | 27.69 | Horizontal | Pass | |
| EDGE1900 | 1880 | 21.55 | 2.42 | 10.35 | 29.48 | Vertical | Pass | |
| | 1909.8 | 19.86 | 2.43 | 10.35 | 27.78 | Horizontal | Pass | |
| | 1909.8 | 21.57 | 2.43 | 10.35 | 29.49 | Vertical | Pass | |

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| Radiated Power (ERP) for WCDMA Band V | | | | | | | |
|---------------------------------------|-----------|-----------|------------|-------|-------------|--------------|------------|
| | | | | Re | esult | | |
| Mode | Frequency | S G.Level | Cable | Gain | PMeas E.R.P | Polarization | Conclusion |
| | | (dBm) | loss (dBi) | (dBm) | Of Max.ERP | | |
| | 826.4 | 13.62 | 0.44 | 6.5 | 19.68 | Horizontal | Pass |
| | 826.4 | 15.53 | 0.44 | 6.5 | 21.59 | Vertical | Pass |
| Band V | 835 | 13.67 | 0.45 | 6.5 | 19.72 | Horizontal | Pass |
| Danu V | 835 | 15.62 | 0.45 | 6.5 | 21.67 | Vertical | Pass |
| | 846.4 | 13.92 | 0.46 | 6.5 | 19.96 | Horizontal | Pass |
| | 846.4 | 15.78 | 0.46 | 6.5 | 21.82 | Vertical | Pass |

| Radiated Power (EIRP) for WCDMA Band II | | | | | | | |
|---|-----------|-----------|-------|------------|---------------|--------------|------------|
| | | | | Re | sult | | |
| Mode | Frequency | S G.Level | Cable | Gain | PMeas | Polarization | Conclusion |
| | | (dBm) | loss | loss (dBi) | E.I.R.P.(dBm) | Of Max.EIRP | |
| | 1852.4 | 10.95 | 2.41 | 10.35 | 18.89 | Horizontal | Pass |
| | 1852.4 | 12.72 | 2.41 | 10.35 | 20.66 | Vertical | Pass |
| Band II | 1880 | 10.91 | 2.42 | 10.35 | 18.84 | Horizontal | Pass |
| Danu II | 1880 | 12.65 | 2.42 | 10.35 | 20.58 | Vertical | Pass |
| | 1907.4 | 10.19 | 2.43 | 10.35 | 18.11 | Horizontal | Pass |
| | 1907.4 | 12.09 | 2.43 | 10.35 | 20.01 | Vertical | Pass |

Report No.: STS1703204F01

Occupied Bandwidth for GSM 850 band Occupied Bandwidth **Emission Bandwidth** Mode Frequency(MHz) (99%)(kHz) (-26dBc)(kHz) Low Channel 824.2 243.90 319.2 Middle Channel 247.21 836.6 316.8 High Channel 848.8 248.15 318.6 **Occupied Bandwidth for GPRS 850 band** Occupied Bandwidth **Emission Bandwidth** Mode Frequency(MHz) (99%)(kHz) (-26dBc)(kHz) Low Channel 824.2 243.67 311.9 Middle Channel 836.6 244.40 305.8 High Channel 848.8 242.75 316.5 **Occupied Bandwidth for EGPRS 850 band** Occupied Bandwidth **Emission Bandwidth** Frequency(MHz) Mode (99%)(kHz) (-26dBc)(kHz) 824.2 244.90 321.2 Low Channel Middle Channel 836.6 247.25 315.1 **High Channel** 848.8 245.43 312.6

A4 OCCUPIED BANDWIDTH(99% OCCUPIED BANDWIDTH/26DB BANDWIDTH)

Report No.: STS1703204F01

| Occupied Bandwidth for GSM1900 band | | | | | | | |
|-------------------------------------|---------------------------------------|--------------------------|--------------------|--|--|--|--|
| Mode | | Occupied Bandwidth | Emission Bandwidth | | | | |
| Mode | Frequency(MHz) | (99%)(kHz) | (-26dBc)(kHz) | | | | |
| Low Channel | 1850.2 | 243.89 | 319.3 | | | | |
| Middle Channel | 1880.0 | 242.66 | 310.0 | | | | |
| High Channel | 1909.8 | 246.69 | 321.7 | | | | |
| | Occupied Bandwidth for GPRS 1900 band | | | | | | |
| Mode | Frequency(MHz) | Occupied Bandwidth | Emission Bandwidth | | | | |
| Mode | | (99%)(kHz) | (-26dBc)(kHz) | | | | |
| Low Channel | 1850.2 | 246.42 | 315.0 | | | | |
| Middle Channel | 1880.0 | 247.99 | 321.1 | | | | |
| High Channel | 1909.8 | 246.05 | 318.1 | | | | |
| | Occupied Bandy | width for EDGE 1900 band | | | | | |
| Mode | | Occupied Bandwidth | Emission Bandwidth | | | | |
| widde | Frequency(MHz) | (99%)(kHz) | (-26dBc)(kHz) | | | | |
| Low Channel | 1850.2 | 245.81 | 320.2 | | | | |
| Middle Channel | 1880.0 | 240.47 | 316.8 | | | | |
| High Channel | 1909.8 | 247.38 | 321.8 | | | | |

| Occupied Bandwidth for UMTS band V | | | | | | |
|------------------------------------|-----------------|--------------------|--------------------|--|--|--|
| Mode | Fraguanay (MHz) | Occupied Bandwidth | Emission Bandwidth | | | |
| Mode | Frequency(MHz) | (99%)(MHz) | (-26dBc)(MHz) | | | |
| Low Channel | 826.4 | 4.2238 | 4.848 | | | |
| Middle Channel | 836.6 | 4.1998 | 4.838 | | | |
| High Channel | 846.6 | 4.2141 | 4.843 | | | |

| Occupied Bandwidth for UMTS band II | | | | | | |
|-------------------------------------|------------------|--------------------|--------------------|--|--|--|
| Mode | Frequency(MHz) | Occupied Bandwidth | Emission Bandwidth | | | |
| wode | Frequency(IVITZ) | (99%)(MHz) | (-26dBc)(MHz) | | | |
| Low Channel | 1852.4 | 4.2172 | 4.865 | | | |
| Middle Channel | 1880 | 4.2281 | 4.859 | | | |
| High Channel | 1907.6 | 4.2101 | 4.866 | | | |



GSM 850 CH 128



GSM 850 CH 190





GSM 850 CH 251

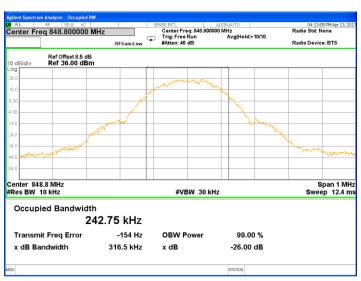


GPRS 850 CH 128



GPRS 850 CH 190





GPRS 850 CH 251



EDGE 850 CH 128



EDGE 850 CH 190



EDGE 850 CH 251



PCS 1900 CH 512



PCS 1900 CH 661

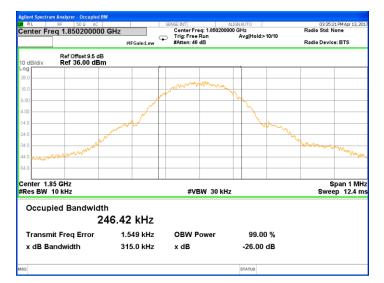


PCS 1900 CH 810





GPRS 1900 CH 512



GPRS 1900 CH 661



GPRS 1900 CH 810

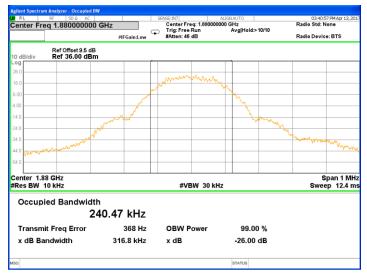




EDGE 1900 CH 512



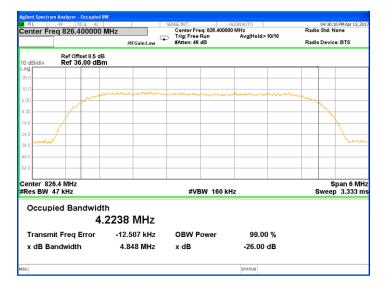
EDGE 1900 CH 661



EDGE 1900 CH 810



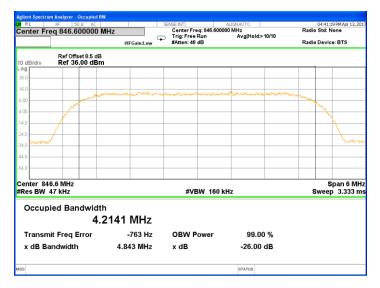
UMTS BAND V CH 4132



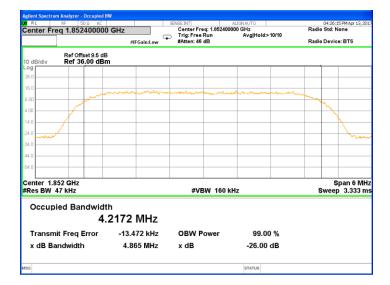
UMTS BAND V CH 4183

| gilent Spectrum Analyzer - Occupied B | v | | | |
|---|---------------|---------------------------------|----------------|---|
| RL RF 50 Q AC | /Hz | Center Freq: 836.60000 | | 04:40:09 PM Apr 13,3 Radio Std: None |
| | #IFGain:Low | Trig: Free Run #Atten: 46 dB | Avg Hold>10/10 | Radio Device: BTS |
| Ref Offset 8.5 dB 0 dB/div Ref 36.00 dBm | I | | | |
| 6 .0 | | | | |
| 5.0 | mmm | warman | Aunon marine | |
| | | | | |
| | | | | |
| .0 | | | | |
| 1.0 man | | | | m |
| 1.0 | | | | |
| I.D | | | | |
| enter 836.6 MHz Res BW 47 kHz | | #VBW 160 kl | Hz | Span 6 N Sweep 3.333 |
| Occupied Bandwidtl 4. | 1 1998 MHz | | | |
| Transmit Freq Error | -12.334 kHz | OBW Power | 99.00 % | |
| x dB Bandwidth | 4.838 MHz | x dB | -26.00 dB | |
| g | | | STATUS | |
| 8 | | | STATUS | |

UMTS BAND V CH 4233



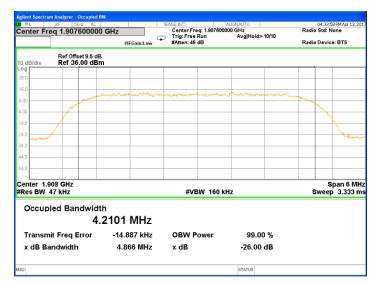
UMTS BAND II CH 9262



UMTS BAND II CH 9400

| enter Fr | RF 50 Ω AC | | Center Freq: 1.880000 | | 04:32:24 PM Apr 13, 20 Radio Std: None |
|----------|------------------------------------|-------------|---------------------------------|----------------|--|
| | | #IFGain:Low | Trig: Free Run #Atten: 46 dB | Avg Hold>10/10 | Radio Device: BTS |
| 0 dB/div | Ref Offset 9.5 dE Ref 36.00 dBr | | | | |
| 26.0 | | | | | |
| 6.0 | | | | | |
| .00 | | | an man have | | man and a second s |
| .00 | - Aur | | | | |
| 4.0 | | | | | |
| 4.0 | | | | | |
| 4.0 | | | | | |
| 4.0 | | | | | |
| 4.0 | | | | | |
| enter 1. | 00 C U- | | | | On an 6 M |
| Res BW | | | #VBW 160 k | Hz | Span 6 M Sweep 3.333 r |
| ~ | | | | | |
| Occup | bied Bandwidt | | | | |
| | 4. | 2281 MHz | | | |
| Transn | nit Freq Error | -6.907 kHz | OBW Power | 99.00 % | |
| | | | | | |

UMTS BAND II CH 9538



Report No.: STS1703204F01

A5 FREQUENCY STABILITY

Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.7 V.; Maximum Voltage =4.35V

| GSM 850 Middle Channel/836.6MHz | | | | | | | | |
|---------------------------------|-------------------|--------------------|---------------------|--------|--------|--|--|--|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result | | | |
| 50 | | 21.27 | 0.254 | 2.5ppm | PASS | | | |
| 40 | | 29.35 | 0.351 | | | | | |
| 30 | | 24.05 | 0.287 | | | | | |
| 20 | | 35.67 | 0.426 | | | | | |
| 10 | Normal Voltage | 31.17 | 0.373 | | | | | |
| 0 | | 20.71 | 0.248 | | | | | |
| -10 | | 26.75 | 0.320 | | | | | |
| -20 | | 11.63 | 0.139 | | | | | |
| -30 | | 27.57 | 0.330 | | | | | |
| 25 | Maximum Voltage | 13.11 | 0.157 | | | | | |
| 25 | BEP | 34.49 | 0.412 | | | | | |

| GPRS 850 Middle Channel/836.6MHz | | | | | | | | |
|----------------------------------|-------------------|--------------------|---------------------|--------|--------|--|--|--|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result | | | |
| 50 | | 29.61 | 0.354 | 2.5ppm | PASS | | | |
| 40 | | 29.04 | 0.347 | | | | | |
| 30 | | 27.90 | 0.333 | | | | | |
| 20 | | 34.52 | 0.413 | | | | | |
| 10 | Normal Voltage | 24.73 | 0.296 | | | | | |
| 0 | | 18.62 | 0.223 | | | | | |
| -10 | | 36.39 | 0.435 | | | | | |
| -20 | | 19.62 | 0.235 | | | | | |
| -30 | | 13.82 | 0.165 | | | | | |
| 25 | Maximum Voltage | 13.82 | 0.024 | | | | | |
| 25 | BEP | 22.74 | 0.014 | | | | | |

П

Report No.: STS1703204F01

| | EDGE 850 Middle Channel/836.6MHz | | | | | | | | | |
|---------------------|----------------------------------|--------------------|---------------------|--------|--------|--|--|--|--|--|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result | | | | | |
| 50 | | 36.13 | 0.432 | | | | | | | |
| 40 | | 28.52 | 0.341 | | | | | | | |
| 30 | | 33.78 | 0.404 | | | | | | | |
| 20 | | 25.27 | 0.302 | | | | | | | |
| 10 | Normal Voltage | 13.98 | 0.167 | | | | | | | |
| 0 | | 20.55 | 0.246 | 2.5ppm | PASS | | | | | |
| -10 | | 17.60 | 0.210 | | | | | | | |
| -20 | | 24.36 | 0.291 | | | | | | | |
| -30 | | 30.51 | 0.365 | | | | | | | |
| 25 | Maximum Voltage | 16.02 | 0.024 | | | | | | | |
| 25 | BEP | 20.05 | 0.014 | | | | | | | |

Report No.: STS1703204F01

| | GSM [·] | 1900 Middle Cha | nnel/1880MHz | | |
|---------------------|-------------------|--------------------|---------------------|------------|--------|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result |
| 50 | | 31.98 | 0.017 | | |
| 40 | | 31.66 | 0.017 | | |
| 30 | | 27.58 | 0.015 | | |
| 20 | | 28.54 | 0.015 | | |
| 10 | Normal Voltage | 22.88 | 0.012 | Within Au- | |
| 0 | | 19.82 | 0.011 | thorized | PASS |
| -10 | | 23.40 | 0.012 | Band | |
| -20 | | 13.79 | 0.007 | | |
| -30 | | 35.88 | 0.019 | | |
| 25 | Maximum Voltage | 30.82 | 0.016 | | |
| 25 | BEP | 25.53 | 0.014 | | |

| | GPRS | 1900 Middle Cha | annel/1880MHz | | |
|---------------------|-------------------|--------------------|---------------------|------------|--------|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result |
| 50 | _ | 35.02 | 0.019 | | |
| 40 | | 20.85 | 0.011 | | |
| 30 | | 18.05 | 0.010 | | |
| 20 | | 11.70 | 0.006 | Within Au- | |
| 10 | Normal Voltage | 28.96 | 0.015 | | |
| 0 | | 16.66 | 0.009 | thorized | PASS |
| -10 | | 15.54 | 0.008 | Band | |
| -20 | | 23.52 | 0.013 | | |
| -30 | | 22.77 | 0.012 | | |
| 25 | Maximum Voltage | 20.38 | 0.011 | | |
| 25 | BEP | 23.22 | 0.012 | | |

Report No.: STS1703204F01

| | EDGE 1900 Middle Channel/1880MHz | | | | | | | | | | |
|---------------------|----------------------------------|--------------------|---------------------|------------|--------|--|--|--|--|--|--|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result | | | | | | |
| 50 | | 25.44 | 0.014 | | | | | | | | |
| 40 | | 17.22 | 0.009 | | | | | | | | |
| 30 | | 34.60 | 0.018 | | | | | | | | |
| 20 | | 22.44 | 0.012 | | | | | | | | |
| 10 | Normal Voltage | 22.06 | 0.012 | Within Au- | | | | | | | |
| 0 | | 17.73 | 0.009 | thorized | PASS | | | | | | |
| -10 | | 21.34 | 0.011 | Band | | | | | | | |
| -20 | | 24.45 | 0.013 | | | | | | | | |
| -30 | | 34.50 | 0.018 | | | | | | | | |
| 25 | Maximum Voltage | 23.13 | 0.012 | | | | | | | | |
| 25 | BEP | 28.99 | 0.015 | | | | | | | | |

Report No.: STS1703204F01

| | WCDMA V Middle Channel/836.6MHz | | | | | | | | | |
|---------------------|---------------------------------|--------------------|---------------------|--------|--------|--|--|--|--|--|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result | | | | | |
| 50 | | 24.77 | 0.296 | | | | | | | |
| 40 | | 21.27 | 0.254 | | | | | | | |
| 30 | | 20.58 | 0.246 | | | | | | | |
| 20 | | 20.35 | 0.243 | | | | | | | |
| 10 | Normal Voltage | 21.51 | 0.257 | | | | | | | |
| 0 | | 24.00 | 0.287 | 2.5ppm | PASS | | | | | |
| -10 | | 28.28 | 0.338 | | | | | | | |
| -20 | | 18.34 | 0.219 | | | | | | | |
| -30 | | 28.69 | 0.343 | | | | | | | |
| 25 | Maximum Voltage | 31.62 | 0.378 | | | | | | | |
| 25 | BEP | 31.15 | 0.372 | | | | | | | |

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

| | WCDM | MA II Middle Cha | nnel/1880MHz | | |
|---------------------|-------------------|--------------------|---------------------|------------|--------|
| Temperature (°C) | Voltage (Volt) | Freq. Dev. (Hz) | Freq. Dev. (ppm) | Limit | Result |
| 50 | | 20.23 | 0.011 | | |
| 40 | | 31.97 | 0.017 | | |
| 30 | | 11.52 | 0.006 | | |
| 20 | | 24.10 | 0.013 | Within Au- | |
| 10 | Normal Voltage | 12.81 | 0.007 | | |
| 0 | | 18.66 | 0.010 | thorized | PASS |
| -10 | | 21.58 | 0.011 | Band | |
| -20 | | 14.15 | 0.008 | | |
| -30 | | 29.07 | 0.015 | | |
| 25 | Maximum Voltage | 24.59 | 0.013 |] | |
| 25 | BEP | 35.33 | 0.019 | | |

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

41 of 65

A6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS GSM 850 BAND

Autom Sector Autor OSS606 PMAre 13,202 Center Freq 4.515000000 GHz PR0: Fast PASS SREED/T Autor Type: Log-Pwr Tradit 123 data PASS PR0: Fast PG int. Isov Trig: Free Run #Atten: 36 dB Mkr1 82 data IS3 data CobBidu Ref Offset 85 dB Mkr1 82 data SREED/T Autor Type: Log-Pwr Trig: Free Run (gf) PP PP PP CobBidu Ref Offset 85 dB Mkr1 82 data SREED/T Autor Type: Log-Pwr Trig: PP PP PP CobBidu Ref Offset 85 dB Mkr1 82 data SREED/T Autor Type: Log-Pwr Trig: PP PP PP CobBidu Ref Offset 85 dB Mkr1 82 data SREED/T Autor Type: Log-Pwr Trig: PP PP PP CobBidu Ref Offset 85 dB Mkr1 82 data SREED/T Autor Type: Log-Pwr Trig: PP PP PP CoBDidu Ref Offset 85 dB Stat 30 MHz Ref Offset 82 data Stat 30 MHz Stop 9.000 GHz Trig: Free 8.000 Fill 100 F

Lowest Channel

Middle Channel

| | | AC AC | SENSE: INT | r i | ALIGNAUTO | | 03:58:36 P | |
|---------------------------------|---------------------------|--------------------------|--|-----------------------|---|-----------|----------------------------------|-----------------------------------|
| Center Fi | req 4.5150 | 00000 GHz PN IFG4 | D: Fast 🕞 Trig: sin:Low #Atte | Free Run in: 36 dB | Avg Type | : Log-Pwr | TRAC TYP DE | E 1 2 3 4 E M WWW T P P P P |
| 0 dB/div | Ref Offset 8 Ref 34.50 | | | | | | Mkr1 836 28.97 | |
| og 74.5 Trac | e 1 Fs | | | | | | | |
| 4.5 | | | | | | | | |
| | | | | | | | | |
| 1.50 | | | | | | | | |
| .50 | | | | | | | | |
| 5.5 | | | | | | | | |
| 5.5 | | | | | 2 | | | |
| 6.5 | and the second second | and the second second | and the local division of the local division | The second second | ala ya kuta kuta kuta kuta kuta kuta kuta kut | | a statement of the second second | |
| 5.5 | | | | | | | | |
| 55.5 | | | | | | | | |
| tart 30 N | 1Hz | | | | | | Stop 9. | 000 G |
| Res BW | 1.0 MHz | | #VBW 3.0 | MHz | | Swee | ep 16.0 ms (2 | |
| KR MODE TR | | X | Y | FUNCTION | FUNCTION WIDTH | F | UNCTION VALUE | |
| 1 N 1 | f | 836.9 MHz 5.690 1 GHz | 28.973 dBm -35.420 dBm | | | | | |
| 2 N 1 | | 0.030 1 0112 | -00.420 dbiii | | | | | |
| 3 | | | | | | | | |
| 3 4 | | | | | | | | |
| 3 4 | | | | | | | | |
| 3 4 5 6 7 | | | | | | | | |
| 3 4 5 6 7 8 9 | | | | | | | | |
| 3 4 5 6 7 | | | | | | | | |

| RL | RF | 50 Q | | SEN | SE:INT | ALIO | OTUANE | | | 41 PM Apr 13, 2 |
|------------------|----------|-------------------|--|------------|--|---------------|-----------|------------------|---------------|--------------------|
| enter | Freq 4 | 1.515000 | | | T-1 | | Avg Type: | Log-Pwr | 1 | TYPE MINAW |
| ASS | | | Ph | 10: Fast 🖵 | Trig: Free Run #Atten: 36 dB | | | | | DET P P P P |
| | | | ird | am.cow | | | | | Milend O | 40.0 MI |
| | | Offset 8.5 d | | | | | | | | 49.0 Mł .035 dB |
| 0 dB/div | | 34.50 dB | m | | | | | | 23 | .035 uB |
| 24.5 Tra | ice 1 F | ls | | | | | | | | |
| 14.5 | | | | | | | | | | |
| 4.50 | | | | | | | | | | |
| | | | | | | | | | | |
| 5.50 | | | | | | | | | | |
| 15.5 | | | | | | | | | | |
| 25.6 | | | | | | | | | 2 | |
| 6.5 | | ware and sold the | and the second | | and a second | , and the set | | والحاق وبالتحفيظ | L.W. | - |
| 15.5 | | | | | | | | | | |
| 55.5 | | | | | | | | | | |
| | | | | | | | | | | |
| tart 30 | | | | | | | | | Stop | 9.000 G |
| Res BV | N/ 1.0 ₪ | /IHz | | #VBW | 3.0 MHz | | | Swee | ep 16.0 ms | (20001 p |
| KR MODE | TRC SCL | | × | Y | FUNCTION | FUNCTI | ON WIDTH | | UNCTION VALUE | |
| 1 N 2 N | 1 f | | 849.0 MHz | 29.035 dB | | | | | | |
| 2 N 3 | 1 1 | | 7.421 3 GHz | -35.644 dB | m | | | | | |
| 4 | | | | | | | | | | |
| | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 5 6 7 | | | | | | | | | | |
| 5 6 7 8 | | | | | | | | | | |
| 8 9 0 | | | | | | | | | | |
| 8 9 0 | | | | | | | | | | |
| 8 9 0 | | | | | | | STATUS | | | |

GPRS 850 BAND

Lowest Channel

| RL | Ctrum A | nalyzer - Swept ! F 50 g / | SA AC | SENSE | - 11 (22) | ALIGNAUTO | | 01.05 | 25 PM Apr 13,1 |
|-----------------------|----------------|-------------------------------|--------------------------|---------------------------|-------------------------------|-----------------------|-----------|--------------------|--------------------------------|
| | | 4.5150000 | | SENS | :001 | ALIGNAUTO Avg Type | : Log-Pwr | | 25 PM Apr 13,1 RACE 1 2 3 4 |
| ASS | TTOQ | 4.5150000 | PI | | rig: Free Run Atten: 36 dB | | | | DET P P P F |
| M33 | | | IFG | ain:Low # | Atten: 36 dB | | | | |
| 0 dB/di | | f Offset 8.5 dB f 34.50 dB | | | | | | Mkr1 8 28. | 24.3 M .959 dE |
| 9g Tr | ace 1 | ļ.,s | | | | | | | |
| 4.5 | | | | | | | | | |
| .50 | | | | | | | | | |
| 50 | | | | | | | | | |
| 5.5 | | L | | | | | | | |
| 5.6 | | | | | | | | | |
| 5.5 | | | | and the second second | | and a second second | | | |
| 5.5 | | | | | | | | | |
| 5.5 | | | | | | | | | |
| | | | | | | | | | |
| |) MHz W 1.0 | MHz | | #VBW 3 | .0 MHz | | Swe | Stop ep 16.0 ms | 9.000 G |
| KR MODE | TRC SC | 1 | × | Y | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| 1 N 2 N 3 | 1 f 1 f | | 824.3 MHz 7.484 1 GHz | 28.959 dBn -35.296 dBn | | | | | |
| 4 | | | | | | | | | |
| 5 6 7 | | | | | | | | | |
| | | | | | | | | | |
| 8 | | | | | | | | | |
| 8 9 0 | | | | | | | | | |
| 8 9 0 1 2 | | | | | | | | | |

Middle Channel

| | RF | | | SENSE | INT | ALIGNAUTO | | | 3 PM Apr 13, 2 |
|---|-----------------------|------------------------------|-------------------------|--|-------------------------------|----------------|--------------------|-------------------|--|
| Center ASS | Freq | 4.515000000 GH | IZ PNO: I IFGain: | | rig: Free Run Atten: 36 dB | Avg Ty | e: Log-Pwr | | ACE 1 2 3 4 TYPE MUMMU DET P P P P |
| 0 dB/di | | Offset 8.5 dB f 34.50 dBm | | | | | | Mkr1 8: 28. | 36.9 MI 970 dB |
| og 24.5 | ace 1 F | 1.s | | | | | | | |
| 4.5 | | | | | | | | | |
| .50 | | | | | | | | | |
| .50 | | | | | | | | | |
| 5.6 | | | | | | | | | |
| 5.6 | | | | | | 2 | | | |
| 5.6 | and the large state | | | of the local division of the local divisione | Alexandress of the | No. | ومالين ورالتخذ ويت | - | - |
| 5.6 | | | | | | | | | |
| 5.6 | | | | | | | | | |
| | 0 MHz W 1.0 | MHz | | #VBW 3. | .0 MHz | | Swee | Stop p 16.0 ms | 9.000 G (20001 |
| Res B | | | | Y | FUNCTION | FUNCTION WIDTH | F | UNCTION VALUE | |
| KR MODE | TRC SOL 1 f | 836.9 | 9 MHz | 28.970 dBm | | | | | |
| KR MODE | TRC SCI 1 f 1 f | | | | | | | | |
| 1 N 2 N 3 | 1 f | 836.9 | | 28.970 dBm | | | | | |
| 1 N 2 N 3 | 1 f | 836.9 | | 28.970 dBm | | | | | |
| 1 N 2 N 3 4 5 6 7 | 1 f | 836.9 | | 28.970 dBm | | | | | |
| 5 MODE 1 N 2 N 3 4 5 6 7 8 9 | 1 f | 836.9 | | 28.970 dBm | | | | | |
| KR MODE | 1 f | 836.9 | | 28.970 dBm | | | | | |

| | rum Analyzer | | | | | | | | | |
|---------------------|----------------|----------------------|-------------------------|-------------------------|------------------------------|------------|-----------|---------|-------------------|---------------------------|
| RL | RF | 50 Q AC | | SEN | ISE:INT | AL | IGN AUTO | | | 35 PM Apr 13, 2 |
| enter F ASS | req 4.51 | 5000000 GI | Hz PNO: I IFGain: | Fast 😱 Low | Trig: Free F #Atten: 36 (| Run dB | Avg Type: | Log-Pwr | | TYPE MUMMU DET P P P P |
| 0 dB/div | | et 8.5 dB .50 dBm | | | | | | | | 49.0 MH 055 dB |
| 4.0 | e 1 Ft.ls | | | | | | | | | |
| .50 | | | | | | | | | | |
| 50 | | | | | | | | | | |
| 5.5 | | | | | | | | | ^2 | |
| 5.5 | | | | | | | | | - V | No. |
| 5.6 | | | | | | | | | | |
| art 30 P Res BW | MHz 1.0 MHz | | | #VBW | 3.0 MHz | | | Swee | Stop p 16.0 ms | 9.000 G (20001 p |
| R MODE TI | RC SCL | х | | Y | FUNC | TION FUNCT | ION WIDTH | F | UNCTION VALUE | |
| 1 N 1 2 N 1 3 | f | | .0 MHz 6 GHz | 29.055 dE -35.120 dE | | | | | | |
| 4 5 5 7 | | | | | | | | | | |
| 7 B 9 | | | | | | | | | | |
| | | | | | | | | | | |
| 0 1 2 | | | | | | | | | | |

EDGE 850 BAND

Lowest Channel

| ente | r Freq | | AC 0000 GHz | SENSE:INT | | ALIGNAUTO Avg Type: | Log-Pwr | T | 4 PM Apr 13,2 ACE 1 2 3 4 TYPE MINIM |
|--|-----------|----------------------------|---|--|----------------------------|------------------------|------------------------------|-------------------|--|
| ASS | | | | 0:Fast 😱 Trig:Free ain:Low #Atten:3 | | | | | DET PPPP |
| 0 dB/d | | f Offset 8.5 ef 34.50 d | | | | | | Mkr1 8: 28. | 24.3 M 984 dE |
| og 4.5 | race 1 | 1J.s | | | | | | | |
| 4.5 | | | | | | | | | |
| 1.50 | | | | | | | | | |
| 5.50 | | | | | | | | | |
| 5.6 | | L | | | | _ | | | |
| 5.6 | | | | | | ^2 | | | |
| 5.6 | | | i a succession of the | and the state of the second division of the second division of the second division of the second division of the | and the state of the state | - Q- | and the second second second | a sphining contra | ALL DOG TO THE OWNER |
| 5.5 | | | | | | | | | |
| 55.5 | | | | | | | | | |
| tart 3 | 30 MHz | | | | | | | Stop | 9.000 G |
| ResE | 3W 1.0 | MHz | | #VBW 3.0 MH | z | | Swee | p 16.0 ms | (20001 |
| NO MOS | DE TRC SC | L | × 824.3 MHz | Y FU 28.984 dBm | NCTION FUN | ICTION WIDTH | F | UNCTION VALUE | |
| | | | 5.824 6 GHz | -36.173 dBm | | | | | |
| 1 N 2 N | 1 f | | | | | | | | |
| 1 N 2 N 3 | 1 f | | | | | | | | |
| 1 N 2 N 3 4 | 1 f | | | | | | | | |
| 1 N 2 N 3 4 5 6 7 | 1 f | | | | | | | | |
| 1 N 2 N 3 4 5 6 7 8 | 1 f | | | | | | | | |
| 1 N 2 N 3 4 5 6 7 8 9 0 | 1 f | | | | | | | | |
| 1 N 2 N 3 4 5 6 7 | 1 f | | | | | | | | |

Middle Channel

| | - Fre | | R AC 000000 GHz | SENSE:IN | : Free Run | ALIGNAUTO Avg Type | : Log-Pwr | TR | 7 PM Apr 13,: ACE 1 2 3 4 YPE MHMM |
|----------------------------|----------|---------------------------|--|---|------------|---|--|--------------------|--|
| ASS | | | IFG | | en:36 dB | | | | DET P P P P |
| 0 dB/di | | Ref Offset 8 Ref 34.50 | | | | | | Mkr1 83 28. | 86.9 M 983 dE |
| .og 24.5 | race | 11 <mark>11</mark> s | | | | | | | |
| 14.5 | | | | | | | | | |
| 4.50 | | | | | | | | | |
| 5.50 | | | | | | | | | |
| 15.5 | | | | | | | _ | | |
| 25.5 | | _ | | | | | 0 ² | | |
| 6.5 | l of the | 1975 C 1985 C 19 | and the second | and the state of the | | perfect distribution of the second | de la desta de | - | |
| 15.5 | | | | | | | | | |
| 55.5 | | | | | | | _ | | |
| tart 3 Res B | | iz .0 MHz | | #VBW 3.0 | MHz | | Swee | Stop 20 16.0 ms | 9.000 C |
| | ETRC | SCL | х | Y | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| 1 N | 1 | f f | 836.9 MHz 6.596 0 GHz | 28.983 dBm -35.631 dBm | | | | | |
| 2 N | | | | | | | | | |
| 2 N 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 3 4 5 6 7 | | | | | | | | | |
| 4 5 6 7 8 9 | | | | | | | | | |
| 4 5 7 8 9 | | | | | | | | | |
| 4 5 6 7 8 9 | | | | | | | | | |

| RL | Ri | F 50 Q | AC | SENSE: INT | ALIGNAUTO | | 04:16:08 PM Apr 13, |
|--|---------------|------------------------------|-------------|--|---------------------|----------------------|---------------------|
| ente | r Frea | 4.515000 | 000 GHz | | | ype: Log-Pwr | TRACE 1 2 3 4 |
| ASS | | | PNO |): Fast 😱 Trig: Free F | Run | | DET P P F |
| ASS | | | IFGa | in:Low #Atten: 36 d | iB | | DETIFFF |
| | | | | | | | Mkr1 849.0 M |
| 0 dB/d | | f Offset 8.5 d f 34.50 dB | | | | | 29.069 dE |
| | | | | | | | |
| 24.5 | race 1 F | L_S | | | | | |
| 14.5 | | | | | | | |
| | | | | | | | |
| 4.50 | | | | | | | |
| 5.50 | | | | | | | |
| 5.5 | | ļ | | | | | |
| | | | | | | | |
| 25.5 | | | | | | () ² | |
| 6.5 | أتقعم والمرود | | | and the second sec | | Wind with the second | |
| 15.5 | | | | | | | |
| 5.5 | | | | | | | |
| ~~ | | | | | | | |
| tart 3 | 0 MHz | | | | | | Stop 9.000 G |
| | W 1.0 | MHz | | #VBW 3.0 MHz | | Swee | ep 16.0 ms (20001 p |
| | E TRC SC | 1 | Х | Y FUNC | TION FUNCTION WIDTH | | FUNCTION VALUE |
| | | | 849.0 MHz | | | | |
| 1 N | 1 f | | | 29.069 dBm | | | |
| 1 N 2 N | 1 f 1 f | | 6.013 0 GHz | 29.069 dBm -34.781 dBm | | | |
| 1 N 2 N 3 | 1 f 1 f | | | | | | |
| 1 N 2 N 3 | 1 f 1 f | | | | | | |
| 1 N 2 N 3 4 5 6 | 1 f 1 f | | | | | | |
| 1 N 2 N 3 4 5 6 7 | 1 f 1 f | | | | | | |
| 1 N 2 N 3 4 5 6 7 8 9 | 1 f | | | | | | |
| 1 N 2 N 3 4 5 6 7 8 9 0 | 1 f | | | | | | |
| N N 2 3 4 5 6 7 8 9 0 1 | 1 f | | | | | | |
| 1 N 2 N 3 4 5 6 7 8 9 | 1 f | | | | STATU | | |

GSM1900 BAND(30M-20G)

Lowest Channel

| gilent Spectrum Analyze | | | | | | | |
|------------------------------------|----------------------------------|---------------------------|---|--|---------|-------------------|---|
| RL RF enter Freq 10. ASS | 50 Q AC 015000000 GHz | | Free Run en: 36 dB | ALIGNAUTO Avg Type: | Log-Pwr | TF | OPM Apr 13, AGE 1 2 3 4 TYPE MHANN DET P P P |
| dB/div Ref 35 | set 9.5 dB 5.50 dBm | | | | | Mkr1 1.8 26. | 50 3 G 070 dE |
| 5.5 Trace 1 121s | 3 | | | | | | |
| 5.5 | | | | | | | |
| 50 | | | | | | | |
| 1.5 | | | | | | | |
| 4.5 | Starting and Starting | | and the state of the | and the second | | | |
| 4.5 | | | | | | | |
| art 30 MHz Res BW 1.0 MH: | z | #VBW 3.0 | MHz | | Swee | Stop 2 50.7 ms | 0.000 G (40001 |
| R MODE TRC SCL N 1 f 2 N 1 f | × 1.850 3 GHz 16.964 6 GHz | 26.070 dBm -29,433 dBm | FUNCTION F | UNCTION WIDTH | FU | NCTION VALUE | |
| 3 | 10.504 0 GHz | -29.435 UBIII | | | | | |
| 5 6 7 | | | | | | | |
| 9 0 | | | | | | | |
| 2 | | | | | | | |
| G | | | | STATUS | | | |

Middle Channel

| PASS 0 dB/div Ref Of 0 dB/div Ref 3 0 g 25.5 Trace 1 A21 | ifset 9.5 dB 5.50 dBm | PNO: Fast Gain:Low | VSE:INT Trig: Free Rur #Atten: 36 dB | | Avg Type: | - | TF | 0 PM Apr 13, 20 ACE 1 2 3 4 5 TYPE MUMMM DET P P P P |
|--|---|-------------------------|--|--------|-----------|------|---------------------|---|
| 0 dB/div Ref 3 | 5.50 dBm | | | | | | Milcard 4 O | |
| 25.5 Trace 1 AL | s | | | | | | 26. | 80 2 GH 383 dB |
| | | | | | | | | |
| 5.50 | | | | | | | | |
| .50 | | | | | | | | |
| 4.5 | | | | | | | 2 ² | |
| 4.5 | and the state of the | | | | | | | |
| 4.5 | | | | | | | | |
| tart 30 MHz Res BW 1.0 MH | łz | #VBW | 3.0 MHz | | | Swee | Stop 2 p 50.7 ms | 0.000 G (40001 |
| KR MODE TRC SCL 1 N 1 f 2 N 1 f 3 | × 1.880 2 GHz 16.565 2 GHz | 26.383 di -28.554 di | FUNCTIO 3m 3m | FUNCTI | ON WIDTH | FL | INCTION VALUE | |
| 4 | | | | | | | | |
| 5 6 7 8 | | | | | | | | |
| 8 9 0 1 | | | | | | | | |
| 2 | | | | | STATUS | | | |

| | | Freq | 50 g A | | 0: Fast | ISE:INT | | IGNAUTO Avg Type: | Log-Pwr | | 36 PM Apr 13, 20 TRACE 1 2 3 4 5 TYPE MUMANIN |
|------------------------------------|--------|--------------|-----------------------------|-----------------------------|------------|-----------------------|-----------|-----------------------|--|---|---|
| PAS | S | | | IFG | ain:Low | #Atten: 36 d | В | | | | DETPPPP |
| | 3/div | | Offset 9.5 dB f 35.50 dB | | | | | | | Mkr1 1.9 26 | 09 7 GH .337 dB |
| .0g 25.5 | Tra | ce 1 P | <u>1</u> 3 | | | | | | | | |
| 15.5 | | | | | | | | | | | |
| 5.50 | | | | | | | | | | | |
| 4.50 | | | | | | | | | | | |
| 14.5 | | | | | | | | | | | |
| 24.5 | | | | | | | | | | ² ² ² ² | |
| 34.5 | | | and the second second | | | and the second second | | ر التاريخ الأنساني | and the second | | - |
| 44.5 | | | | | | | | | | | |
| 54.5 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | MHz / 1.0 | ٧Hz | | #VBW | 3.0 MHz | | | Swe | ep 50.7 ms | 20.000 G (40001 p |
| | | TRC SCL | | × 1,909 7 GHz | 26.337 di | FUNCT | ION FUNCT | TION WIDTH | | FUNCTION VALUE | |
| 2 | N N | 1 f 1 f | | 1.909 7 GHz 16.245 6 GHz | -28.919 di | | | | | | |
| 3 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 5 7 8 9 10 11 12 | | | | | | | | | | | |

GPRS1900 BAND(30M-20G)

Lowest Channel

| RL | _ | RF 50 Ω | | SENSE:INT | | ALIGNAUTO | | 0 | 3:35:57 PM Apr 13, |
|------------------|----------|----------------------------|-------------------------|-----------------|----------------------|--------------------|-----------|----------------|--------------------------|
| enter ASS | Fre | q 10.0150 | DOOOOO GHz PN IFG | | Free Run n: 36 dB | Ауд Тур | : Log-Pwr | | TYPE MHMM DET P P P |
| dB/div | / | Ref Offset 9. Ref 35.50 | | | | | | | 1.850 3 G 26.031 dE |
| 5.6 Tr | ace | I ALLs | | | | | | | |
| 5.6 | | | | | | | | | |
| 50 | | | | | | | | | |
| .5 | | | | | | | | 2 | |
| 1.5 | | | | | | فيفاهل والمستعملين | - | | والتحريطي ال |
| 1.5 | | | | | | | | | |
| .5 | | | | | | | | | |
| art 30 les Bl | | z 0 MHz | | #VBW 3.0 I | ЛHz | | Swe | st eep 50.7 | op 20.000 G ms (40001 |
| R MODE | TRC 1 | sa. f | × 1.850 3 GHz | Y 26.031 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VAL | LUE |
| 2 N | 1 | ŕ | 16.565 2 GHz | -27.743 dBm | | | | | |
| 5 | | | | | | | | | |
| 5 | | | | | | | | | |
| 3 | | | | | | | | | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |

Middle Channel

| Agilent Spectr | um Analyzer - Swe | | | ENSE:INT | | LIGNAUTO | | | 10 PM Apr 13, 2 |
|-----------------------------------|-------------------------------|----------------------------------|-----------------------|------------------------------|-----------|------------|---------|----------------------|----------------------------|
| | | 00000 GHz | PNO: Fast G | Trig: Free F #Atten: 36 d | lun | Avg Type: | Log-Pwr | т | TYPE MUMAUE DET P P P P |
| 10 dB/div | Ref Offset 9.5 Ref 35.50 d | | | | | | | Mkr1 1.8 26. | 80 2 GI 352 dB |
| 25.5 Trac | e 1 F <mark>2,1</mark> s | | | | | | | | |
| 15.5 | _ | | | | | | | | |
| 5.50 | | | | | | | | | |
| 4.50 | | | | | | | | | |
| 14.5 | | | | | | | | 2 | |
| 34.5 | | | | | | | | | - |
| 14.5 | | | | | | | | | |
| 54.5 | | | | | | | | | |
| tart 30 N Res BW | | | #VBV | V 3.0 MHz | | | Swe | Stop 2 ep 50.7 ms | 20.000 G (40001 |
| KR Mode Tr 1 N 1 2 N 1 3 | f | 2 1.880 2 GHz 16.525 2 GHz | 26.352 c -28.658 c | | TION FUNC | TION WIDTH | | FUNCTION VALUE | |
| 4 | | | | | | | | | |
| 5 6 7 | | | | | | | | | |
| 8 9 | | | | | | | | | |
| 0 1 2 | | | | | | | | | |
| | | | | | | | | | |

| | n Analyzer - Swe | | | | | | | |
|------------------------|-------------------------------|-------------------------|----------------|---------------------------------|----------------|-----------|--------------------|-----------------------|
| RL RL | RF 50 Ω | AC 00000 GHz | SEN | ISE:INT | ALIGNAUTO | : Log-Pwr | | 08 PM Apr 13, 20 |
| PASS | sq 10.0150 | Р | | Trig: Free Run #Atten: 36 dB | | . Logi ni | | DET P P P P |
| 0 dB/div | Ref Offset 9.5 Ref 35.50 d | | | | | | Mkr1 1.9 26 | 09 7 GH .310 dB |
| og 75.5 Trace | 1 F 13 | | | | | | | |
| 15.5 | | | | | | _ | _ | |
| 5.50 | | | | | | _ | | |
| .50 | | | | | | _ | _ | |
| 4.5 | | | | | | | ۸2 | - |
| 14.5 | | | | | | | 0 | |
| 4.5 | and the second second | No. of Concession, Name | | No. of Concession, Name | | | | |
| 4.5 | | | | | | | | |
| i4.5 | | | | | | | | |
| tart 30 Mi Res BW 1 | | | #VBW | 3.0 MHz | | Swe | Stop ep 50.7 ms | 20.000 GI (40001 p |
| KR MODE TRC | SCL f | × 1.909 7 GHz | Y 26.310 dE | | FUNCTION WIDTH | | FUNCTION VALUE | |
| 2 N 1 3 | f | 16.445 3 GHz | -27.761 dE | lm | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 7 8 9 | | | | | | | | |
| 0 | | | | | | | | |
| 1 | | | | | | | | |
| ig i | | | | | STATUS | | | |

EDGE 1900 BAND(30M-20G)

Lowest Channel

| | _ | RF | | | SE | NSE:INT | | ALIGNAUTO | | 03:39 | 101 PM Apr 13,2 |
|--------------------|--------|------------|------------|-----------------------------|-----------------------|--------------|----------|----------------------|------------|-------------------|----------------------|
| | | req | 10.0150 | 000000 GHz | NO: Fast | Trig: Free F | Run | Avg Typ | e: Log-Pwr | | TYPE MULLIUM |
| AS | S | | | | Gain:Low | #Atten: 36 d | | | | | DET P P P P |
| 0 dB | /div | | Offset 9.6 | | | | | | | Mkr1 1. 26 | 850 3 G 6.002 dE |
| 0g 25.5 | Trac | e 1 🖡 | 1 <u>s</u> | | | | | | | | |
| @.0 | | | | | | | | | | | |
| 15.5 - | | | | | | | | | | | |
| 5.50 - | | | | | | | | | | | |
| 1.50 | | | | | | | | | | | |
| 14.5 | | | | | | | | | | 2 | |
| 24.5 | | | | | | | | and the state of the | | | |
| 34.5 | أخرجا | | | No. of Concession, Name | | | | | | | |
| 14.5 | | | | | | | | | | | |
| 54.5 | | | | | | | | | | | |
| | | MHz 1.0 | VIHz | | #VBW | 3.0 MHz | | | Swe | Stop ep 50.7 m | 20.000 G (40001 p |
| | | RC SCL | | × | Y | FUNC | TION FUN | CTION WIDTH | | FUNCTION VALUE | |
| 1 1 | N N | 1 f 1 f | | 1.850 3 GHz 16.545 2 GHz | 26.002 d -28.711 d | | | | | | |
| 2 3 4 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 5 6 7 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 8 9 0 | | | | | | | | | | | |
| 8 9 10 11 | | | | | | | | | | | |

Middle Channel

| gilent Spectru | BE 50.0 | vept SA | | ENSE:INT | | LIGNAUTO | | 00.44.0 | 4 PM Apr 13.2 |
|-----------------------------------|---------------------------|----------------------------------|-----------------------|------------------------------|--|------------|---------|----------------------|--|
| | | 000000 GHz | PNO: Fast | Trig: Free F #Atten: 36 d | Run | Avg Type: | Log-Pwr | TF | A PM Apr 13,2 ACE 1 2 3 4 TYPE MUMM DET P P P P |
| 10 dB/div | Ref Offset 9 Ref 35.50 | | | | | | | Mkr1 1.8 26. | 80 2 G 368 dE |
| 25.5 Trace | e 1 F 2 .1s | | | | | | | | |
| 15.5 | _ | | | | | | | | |
| 5.50 | | | | | | | | | |
| 4.50 | - | | | | | | | | |
| 14.5 | | | | | | | | ∧2 | |
| 34.5 | | | and the set of the | | and the second | | | | - |
| 14.5 | | | | | | | | | |
| 54.6 | | | | | | | | | |
| tart 30 M Res BW | | | #VBV | V 3.0 MHz | | | Swee | Stop 2 ep 50.7 ms | 0.000 C (40001 |
| KR MODE TR 1 N 1 2 N 1 3 | f f | × 1.880 2 GHz 17.084 4 GHz | 26.368 d -30.059 d | FUNC IBm IBm | TION FUNC | TION WIDTH | | FUNCTION VALUE | |
| 5 | | | | | | | | | |
| 5 6 7 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| | | | | | | | | | |
| 10 11 12 | | | | | | | | | |

| RL | RE | alyzer - Swept 50 g | | | ENSE:INT | | IGNAUTO | | | 11 PM Apr 13, 2 |
|----------------------------|------------|--------------------------|-----------------------------|------------------------|------------------------------|-----------|------------|----------|-------------------|---------------------------------|
| | | | | s | ENSE:INT | AL | Avg Type: | Log-Pwg | | 11 PM Apr 13, 2 RACE 1 2 3 4 |
| ASS | -req | 10.01500 | | NO: Fast 😱 Gain:Low | Trig: Free F #Atten: 36 d | lun B | Avg Type. | Log-P wr | | DET P P P P |
| 0 dB/div | Ref | Offset 9.5 d 35.50 dB | | | | | | | Mkr1 1.9 26 | 09 7 GH .303 dB |
| 0.0 | ce 1 P | <u>1</u> , | | | | | | | | |
| .50 | | | | | | | | | | |
| 50 4.5 | | | | | | | | | | |
| 4.5 | | | | | | | | | ² | |
| 4.5 | | | | | | | | | | |
| 4.5 | | | | | | | | | | |
| tart 30 Res BW | | ИHz | | #VB\ | N 3.0 MHz | | | Swee | Stop p 50.7 ms | 20.000 G (40001 p |
| KR MODE 1 | TRC SCL | | х | Y | FUNC | TION FUNC | TION WIDTH | F | FUNCTION VALUE | |
| 1 N 2 N 3 | 1 f 1 f | | 1.909 7 GHz 16.585 1 GHz | 26.303 (-29.510 (| | | | | | |
| | | | | | | | | | | |
| 4 5 6 7 | | | | | | | | | | |
| 4 5 6 7 8 9 | | | | | | | | | | |
| 4 5 6 7 | | | | | | | | | | |

WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

| enter | r Fre | RF 50 Ω q 4.51500 | 0000 GHz | SENSE:I | a: Free Run | ALIGNAUTO Avg Tyj | e: Log-Pwr | т | 49 PM Apr 13,2 RACE 1 2 3 4 TYPE MINAN |
|--|--------|-------------------------------|-------------------------------|----------------|--------------|----------------------------------|------------|----------------|--|
| ASS | | | PN | | tten: 36 dB | | | | DETPPP |
| 0 dB/di | | Ref Offset 8.5 Ref 32.42 d | | | | | | Mkr1 8 22. | 25.2 M 424 dE |
| | race 1 | 1_s | | | | | | | |
| 2.4 | | | | | | | | | |
| .42 | | | | | | | | | |
| .58 | | | | | | | | | |
| 7.6 | | | | | | | | | |
| 7.6 | | | | | | | <u>2</u> | | |
| 7.6 | | and the second second | and a stick statistic for the | aldebeland and | Single Print | and the last in the second state | We we we | | - |
| 7.6 | | | | | | | | | |
| 7.6 | | _ | | | | | | | |
| tart 3 | | | | #VBW 3.0 | | | Curro | | 9.000 G |
| | | UIVINZ | | #VBW 3.0 | JI¥IHZ | | Swee | ep 16.0 ms | (20001) |
| Res B | | | | | | | | | |
| KRIMODE | e trc | f | × 825.2 MHz | 22.424 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| KRIMODE 1 N 2 N | e trc | | | | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| 1 N 2 N 3 4 | e trc | f | 825.2 MHz | 22.424 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| KR MODE 1 N 2 N 3 4 5 6 | e trc | f | 825.2 MHz | 22.424 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| 1 N 2 N 3 4 5 6 7 8 | e trc | f | 825.2 MHz | 22.424 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| KE MODE 1 N 2 N 3 4 5 6 7 8 9 | e trc | f | 825.2 MHz | 22.424 dBm | FUNCTION | FUNCTION WIDTH | | FUNCTION VALUE | |
| KR MODE | e trc | f | 825.2 MHz | 22.424 dBm | FUNCTION | FUNCTION WID TH | | FUNCTION VALUE | |

Middle Channel

| | | RF 50 Ω | | SENSE | INT | ALIGNAUTO | | | 0 PM Apr 13, |
|---|--------|-------------------------------|--|----------------------------|---|--|------------|-----------------------|---------------------------|
| PASS | r Fre | q 4.51500 | PN | 0: Fast 🖵 Ti ain:Low ## | rig: Free Run Atten: 36 dB | Ауд Тур | e: Log-Pwr | | TYPE MUMAU DET P P P F |
| 0 dB/d | iv | Ref Offset 8.5 Ref 32.29 d | dB Bm | | | | | Mkr1 8 22. | 36.0 M 288 dE |
| -09 22.3 | race ' | 1 <mark>(2,1</mark> .s | | | | | | | |
| 12.3 | | | | | | | | | |
| 2.29 | | _ | | | | | | | |
| .71 | | _ | | | | | | | |
| 17.7 | | | | | | | | | |
| 27.7 | | _ | | | | | | | |
| 7.7 | | | State of the local division of the local div | | and the state of the | and a second | | and the second second | - |
| 17.7 | | | | | | | | | |
| 57.7 | | | | | | | | | |
| tart 3 | 10 MH | z | | | | | | Stop | 9.000 0 |
| | | | | #VBW 3. | 0 MHz | | Swee | p 16.0 ms | (20001 |
| Res E | 3W 1. | 0 MHz | | #1011.0 | 0 10112 | | | | |
| IKR MOD | E TRC | SCL | X 025 0 Mile | Y | FUNCTION | FUNCTION WIDTH | | UNCTION VALUE | |
| KRIMOD 1 N 2 N | | | 836.0 MHz 5.968 1 GHz | 22.288 dBm -35.864 dBm | FUNCTION | FUNCTION WIDTH | | | |
| KR MOD 1 N 2 N 3 4 | e trc | sa. f | 836.0 MHz | Y 22.288 dBm | FUNCTION | FUNCTION WIDTH | | | |
| 1 N 2 N 3 4 5 | e trc | sa. f | 836.0 MHz | Y 22.288 dBm | FUNCTION | FUNCTION WIDTH | | | |
| 1 N 2 N 3 4 5 | e trc | sa. f | 836.0 MHz | Y 22.288 dBm | FUNCTION | FUNCTION WIDTH | | | |
| 1 N 2 N 3 4 5 6 7 8 9 | e trc | sa. f | 836.0 MHz | Y 22.288 dBm | FUNCTION | FUNCTION WIDTH | | | |
| 1 N 2 N 3 4 | e trc | sa. f | 836.0 MHz | Y 22.288 dBm | FUNCTION | FUNCTION WIDTH | | | |

| ilent Spectrum Analyzer - 1 | DR AC | SENSE:INT | ALIGNAUT | | 04:41:49 PM Apr 13.2 |
|-----------------------------|-------------------------------------|---|------------------------------------|--|--------------------------------|
| enter Freq 4.515 | 000000 GHz | | Avg | Type: Log-Pwr | TRACE 1 2 3 4 TYPE |
| ASS | PN | 0:Fast 😱 Trig:Fr ain:Low #Atten: | | | DET P P P P |
| Ref Offset | | | | | Mkr1 848.1 Mi 22.198 dB |
| og 222 Trace 1 121s | | | | | |
| 12.2 | | | | | |
| .20 | | | | | |
| 80 | | | | | |
| 7.8 | | | | | |
| 7.8 | | | | | ^ 2 |
| 7.8 | and the second descent state of the | and the state of the | and the state of the second second | and a second | Manager and and and the second |
| 7.8 | | | | | |
| 7.8 | | | | | |
| tart 30 MHz | | | | | Stop 9.000 G |
| Res BW 1.0 MHz | | #VBW 3.0 MI | Hz | Sweep | 16.0 ms (20001 p |
| KR MODE TRC SCL | х | | UNCTION FUNCTION WIDT | TH FUN | CTION VALUE |
| 1 N 1 f 2 N 1 f | 848.1 MHz 7.403 3 GHz | 22.198 dBm -34.975 dBm | | | |
| 3 | | | | | |
| | | | | | |
| 5 6 7 | | | | | |
| 8 | | | | | |
| | | | | | |
| 9 | | | | | |
| 9 0 1 2 | | | | | |

WCDMA Band II (RMC 12.2Kbps)(30M-20G)

Algention Analyzer, Swept 54 Augment of the source of the so

Lowest Channel

Middle Channel

| | Ω AC | SENSE:INT | ALIGNAUTO | 04:26:51 PM Apr 13, 2 |
|-----------------------------------|-----------------------------|---|-------------------------|--|
| enter Freq 10.01 ASS | PNO |): Fast 😱 Trig: Free Ri in:Low #Atten: 36 df | Avg Type: Lo un 3 | g-Pwr TRACE 1234 TYPE MWWW DET P P P |
| Ref Offset: 0 dB/div Ref 32.46 | | | | Mkr1 1.851 3 GI 22.464 dB |
| og 72.5 Trace 1 11s | | | | |
| 2.5 | | | | |
| 2.46 | | | | |
| .54 | | | | |
| 7.5 | | | | 2 ² |
| 7.5 | | | | Contraction of the local data |
| 7.5 | | | | |
| 7.5 | | | | |
| | | | | |
| tart 30 MHz Res BW 1.0 MHz | | #VBW 3.0 MHz | | Stop 20.000 G Sweep 50.7 ms (40001 |
| KR MODE TRC SCL | X | Y FUNCT | ON FUNCTION WIDTH | FUNCTION VALUE |
| 1 N 1 f 2 N 1 f 3 4 5 | 1.851 3 GHz 16.485 3 GHz | 22.464 dBm -27.848 dBm | | |
| 4 5 6 7 8 9 | | | | |
| 0 1 2 | | | | |
| 2 | | | | |

| RL | RF 50 Ω | AC | SENSE: INT | ALIGNAUTO | | | 84 PM Apr 13, 2 |
|-----------------------|--------------------------------|-----------------------------|--|------------------------|---------------|----------------------|--------------------------|
| enter Fre ASS | eq 10.0150 | 00000 GHz PN IFG | 0: Fast 😱 Trig: Fro ain:Low #Atten: | e Run - | Гуре: Log-Pwr | | TYPE MUMM DET P P P P |
| | Ref Offset 9.5 Ref_ 31.44 d | | | | | Mkr1 1.9 21. | 08 7 GH 437 dB |
| 1.4 Trace | 1 F <mark>2.</mark> 13 | | | | | | |
| .44 | | | | | | | |
| 56 | | | | | | | |
| 3.6 | | | | | | | Q^2 |
| 8.6 144444 | | | | | | | |
| 8.6 | | | | | | | |
| art 30 MH Res BW 1 | | | #VBW 3.0 MH | Ηz | Swee | Stop 2 ep 50.7 ms | 20.000 GI (40001 p |
| R MODE TRC | | X | | UNCTION FUNCTION WIDTH | 1 | FUNCTION VALUE | |
| 1 N 1 2 N 1 3 | f | 1.908 7 GHz 19.001 5 GHz | 21.437 dBm -29.490 dBm | | | | |
| 4 5 6 7 | | | | | | | |
| 7 B 9 | | | | | | | |
| 3 | | | | | | | |
| 9 D 1 2 | | | | | | | |

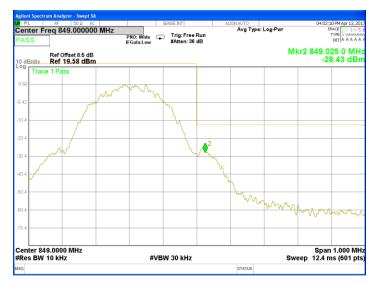
A7 BAND EDGE

GSM 850

Lowest Band Edge







GPRS 850

Lowest Band Edge





EDGE 850

Lowest Band Edge





Report No.: STS1703204F01

GSM 1900

Lowest Band Edge





GPRS 1900

Lowest Band Edge

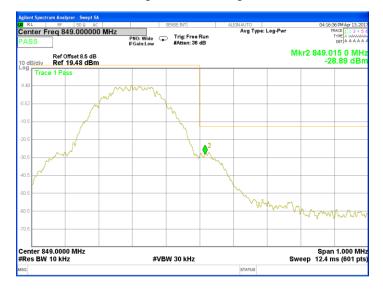




EDGE 1900

Lowest Band Edge





Report No.: STS1703204F01

WCDMA Band VRMC 12.2Kbps

Lowest Band Edge

| | | | ilyzer - Swep | | | | | | | | | | | | |
|--------------|-------------|--------|------------------------|------|---|----------------------|----|----------------------------|---|----|--|---------|-----|-------------------|-------------------------------------|
| RL | | RF | 50 Q | | - | _ | S | ENSE:INT | | AL | IGNAUTO Avg Type: | Log-Pur | | | 16 PM Apr 13, 20: RACE 1 2 3 4 5 |
| PAS | | reqa | 324.0000 | | Р | NO: Wide Gain:Low | Ģ | Trig: Free #Atten: 36 | | | Avg Type. | Log-Fwi | | | TYPE A WANNAW DET A A A A A |
| 10 dB Log | 8/div | | Offset 8.5 14.09 dl | | | | | | | | | | N | 1kr2 824 -1 | .000 MH 7.71 dBr |
| | Trac | e 1 Pa | ss | | | | | | | | | | | | |
| 4.09 | | | | | | | - | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | v | ~~~~~ | |
| 5.91 | | | | | | | _ | | | / | | | _ | | |
| -15.9 | | | | _ | | | _ | | 2 | | | | | | |
| 25.9 | | | | | | | | 1 | | | | | | | |
| | | | | | | | | | | | | | | | |
| -35.9 | | | and | ~~~~ | | ~~~ | ~ | ~ | | | | | | | |
| 45.9 | ~~~~~ | | | _ | | | - | | | | | | - | | |
| -55.9 | | | | | | | _ | | | | | | _ | | |
| 65.9 | | | | | | | | | | | | | | | |
| 75.9 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | er 82 BW | | D MHz Hz | | | # | VB | V 160 kHz | | | | | Swe | Spar ep 2.80 r | n 5.000 MH ns (601 pt |
| #SG | | | | | | | | | | | STATUS | | | - | |

| | | Inalyzer - Swept | | | | | | | | |
|-------------|-------------------|--------------------------------|--------|-------------|--------------------------|--------------|-----------|---------|--------------------|---|
| Cent PAS | ter Frec | ⊮େ <u>50 ହ</u> 849.0000 | 00 MHz | PNO: Wide G | Trig: Free #Atten: 36 | Run | Avg Type: | Log-Pwr | TF | 3 PM Apr 13, 201 ACE 1 2 3 4 5 TYPE A UNIVERSITY DET A A A A A |
| 10 dE | R Mdiv R | ef Offset 8.5 d ef 13.95 dE | B m | | | | | | Vkr2 849. -18 | .000 MH: 3.39 dBn |
| | Trace 1 | | | | | | | | | |
| | ~~~~~ | | | | m. | | | | | |
| -6.05 | | | | | - N | 2 | | | | |
| -16.1 | | | | | × | | | | | |
| -26.1 | | | | | | \mathbf{h} | | | | |
| -36.1 | | | | | | L | | | mm | ~~~~~ |
| -46.1 | | _ | | | | | | | | |
| -56.1 | | | | | | | | | | |
| -66.1 | | | | | | | | | | |
| -76.1 | | | | | | | | | | |
| | er 849.0 BW 47 | | | #VB | W 160 kHz | | | Sw | Span eep 2.80 m | 5.000 MH is (601 pts |
| MSG | | | | | | | STATUS | | | |

Report No.: STS1703204F01

WCDMA Band IIRMC 12.2Kbps

Lowest Band Edge

| | Spectr | um Ana | lyzer - Swep | ot SA | | | | | | | | | | |
|-------------|--------------|------------|------------------------|----------|------------------------|------|----------------------------|----|-----|-----------|---------|-----|----------------|--------------------------|
| X RL | | RF | 50 Q | | | 9 | SENSE: INT | | ALI | GNAUTO | | | 04:2 | 7:19 PM Apr 13, 20 |
| Cent PAS | | req 1 | .85000 | 0000 0 | PNO: Wide FGain:Low | Ģ | Trig: Free #Atten: 36 | | | Avg Type: | Log-Pwr | | | TYPE A WWWW |
| 10 dB | /div | Ref Ref | Offset 9.5 14.36 dl | dB Bm | | | | | | | | Mk | | 0 000 GH 17.36 dB |
| | Trace | e 1 Pa | SS | | | | | | | | | | | |
| 4.36 | | | | | | _ | | | _ | mm | ~~~_ | ~ | ~~~~ | ~~~~ |
| -5.64 | | | | _ | | | | | ~ | | | _ | | |
| -15.6 | | | | _ | | _ | | 2′ | | | | | | |
| -25.6 | | | | | | | / | | | | | | | |
| -35.6 | | | | | | | | | | | | | | |
| -45.6 | ~ | | | | | | | | | | | | | |
| -55.6 | | | | | | | | | | | | | | |
| -65.6 | | | | | | | | | | | | | | |
| -75.6 | | | | | | | | | | | | | | |
| | er 1.8 BW | | 00 GHz Iz | | # | ≠VΒI | W 160 kHz | | | | | Swe | Spa ep 2.80 | n 5.000 Mi ms (601 pt |
| ISG | | | | | | | | | | STATUS | | | | |

| Agilent | | | lyzer - Swe 50 Ω | | | SENSE:INT | | ALIGNAUTO | | 94:25 | 00 PM Apr 13, 2011 |
|---------|--------|--------|-----------------------|-----------|-------------|--------------------------|----------------|-----------|---------|---------------------|----------------------------------|
| | ter Fr | | .91000 | | PNO: Wide (| Trig: Free #Atten: 36 | Run | Avg Type: | Log-Pwr | 1 | RACE 1 2 3 4 5 0 TYPE A MARAA |
| 10 dE | 3/div | Ref (| Offset 9.5 13.05 d | dB IBm | | | | | N | 1kr2 1.910 -1 | 000 GHz 8.74 dBm |
| | Trace | e 1 Pa | SS | | | | | | | | |
| 3.05 | ~~~ | ~~~~ | | ~~~ | | | | | | | |
| -6.95 | | | | _ | | | | | | | |
| -17.0 | | | | | | | ¢ ² | | | | |
| -27.0 | | | | | | | Λ | | | | |
| -37.0 | | | | | | | | | | | ~ |
| | | | | | | | | | | | m |
| -47.0 | | | | | | | | | | | |
| -57.0 | | | | | | | | | | | |
| -67.0 | | | | _ | | | | | | | |
| -77.0 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | BW | | 10 GHz Iz | | #V | BW 160 kHz | 2 | | SV | Spar veep 2.80 r | n 5.000 MHz ns (601 pts |
| MSG | | | | | | | | STATUS | | | |

A8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT GSM 850: (30-9000)MHz

| | | GSM | 850: (30-9 | 000)MHz | | | | | | | | |
|--|---------|-------------|------------|------------|-----------|--------|-----------|--|--|--|--|--|
| | The W | orst Test R | esults Cha | annel 128/ | 824.2 MHz | | | | | | | |
| | S G.Lev | | | PMea | Limit | Margin | Deleritur | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | |
| 1648.45 | -41.35 | 9.40 | 4.75 | -36.70 | -13.00 | -23.70 | Н | | | | | |
| 2472.35 | -39.65 | 10.60 | 8.39 | -37.44 | -13.00 | -24.44 | Н | | | | | |
| 3296.81 | -31.77 | 12.00 | 11.79 | -31.56 | -13.00 | -18.56 | Н | | | | | |
| 1648.26 | -43.44 | 9.40 | 4.75 | -38.79 | -13.00 | -25.79 | V | | | | | |
| 2472.71 | -45.22 | 10.60 | 8.39 | -43.01 | -13.00 | -30.01 | V | | | | | |
| 3296.49 | -42.64 | 12.00 | 11.79 | -42.43 | -13.00 | -29.43 | V | | | | | |
| The Worst Test Results Channel 190/836.6 MHz | | | | | | | | | | | | |
| | S G.Lev | | | PMea | Limit | Margin | Delerity | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | |
| 1673.25 | -40.41 | 9.50 | 4.76 | -35.67 | -13.00 | -22.67 | Н | | | | | |
| 2509.57 | -39.33 | 10.70 | 8.40 | -37.03 | -13.00 | -24.03 | Н | | | | | |
| 3346.03 | -30.91 | 12.20 | 11.80 | -30.51 | -13.00 | -17.51 | Н | | | | | |
| 1673.14 | -43.70 | 9.40 | 4.75 | -39.05 | -13.00 | -26.05 | V | | | | | |
| 2509.64 | -44.37 | 10.60 | 8.39 | -42.16 | -13.00 | -29.16 | V | | | | | |
| 3346.24 | -42.57 | 12.20 | 11.82 | -42.19 | -13.00 | -29.19 | V | | | | | |
| | The W | orst Test R | esults Cha | annel 251/ | 848.8 MHz | | | | | | | |
| | S G.Lev | | | PMea | Limit | Margin | Delerity | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | |
| 1697.63 | -41.19 | 9.60 | 4.77 | -36.36 | -13.00 | -23.36 | Н | | | | | |
| 2546.13 | -39.86 | 10.80 | 8.50 | -37.56 | -13.00 | -24.56 | Н | | | | | |
| 3394.90 | -31.76 | 12.50 | 11.90 | -31.16 | -13.00 | -18.16 | Н | | | | | |
| 1697.50 | -43.38 | 9.60 | 4.77 | -38.55 | -13.00 | -25.55 | V | | | | | |
| 2546.40 | -44.29 | 10.80 | 8.50 | -41.99 | -13.00 | -28.99 | V | | | | | |
| 3395.18 | -43.55 | 12.50 | 11.90 | -42.95 | -13.00 | -29.95 | V | | | | | |

57 of 65

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

GPRS 850: (30-9000)MHz

| | | GPRS | 850: (30-9 | 000)MHz | | | | | | | | | |
|--|---------|-------------|------------|------------|-----------|--------|----------|--|--|--|--|--|--|
| The Worst Test Results Channel 128/824.2 MHz | | | | | | | | | | | | | |
| | S G.Lev | | | PMea | Limit | Margin | Delerity | | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 1648.13 | -41.09 | 9.40 | 4.75 | -36.44 | -13.00 | -23.44 | Н | | | | | | |
| 2472.42 | -40.66 | 10.60 | 8.39 | -38.45 | -13.00 | -25.45 | Н | | | | | | |
| 3296.46 | -31.76 | 12.00 | 11.79 | -31.55 | -13.00 | -18.55 | Н | | | | | | |
| 1648.34 | -43.40 | 9.40 | 4.75 | -38.75 | -13.00 | -25.75 | V | | | | | | |
| 2472.62 | -44.35 | 10.60 | 8.39 | -42.14 | -13.00 | -29.14 | V | | | | | | |
| 3296.74 | -42.78 | 12.00 | 11.79 | -42.57 | -13.00 | -29.57 | V | | | | | | |
| The Worst Test Results Channel 190/836.6 MHz | | | | | | | | | | | | | |
| | S G.Lev | Ant(dBi) | | PMea | Limit | Margin | Delority | | | | | | |
| Frequency(MHz) | (dBm) | Апцаві) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 1672.92 | -40.69 | 9.50 | 4.76 | -35.95 | -13.00 | -22.95 | Н | | | | | | |
| 2509.68 | -40.52 | 10.70 | 8.40 | -38.22 | -13.00 | -25.22 | Н | | | | | | |
| 3346.08 | -31.71 | 12.20 | 11.80 | -31.31 | -13.00 | -18.31 | Н | | | | | | |
| 1673.07 | -44.18 | 9.40 | 4.75 | -39.53 | -13.00 | -26.53 | V | | | | | | |
| 2509.91 | -44.26 | 10.60 | 8.39 | -42.05 | -13.00 | -29.05 | V | | | | | | |
| 3346.34 | -42.83 | 12.20 | 11.82 | -42.45 | -13.00 | -29.45 | V | | | | | | |
| | The W | orst Test R | esults Ch | annel 251/ | 848.8 MHz | | | | | | | | |
| Frequency(MHz) | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity | | | | | | |
| Frequency(MHZ) | (dBm) | Anii(ubi) | L055 | (dBm) | (dBm) | (dBm) | Folanty | | | | | | |
| 1697.52 | -41.28 | 9.60 | 4.77 | -36.45 | -13.00 | -23.45 | Н | | | | | | |
| 2546.32 | -39.45 | 10.80 | 8.50 | -37.15 | -13.00 | -24.15 | Н | | | | | | |
| 3395.26 | -31.32 | 12.50 | 11.90 | -30.72 | -13.00 | -17.72 | Н | | | | | | |
| 1697.52 | -43.47 | 9.60 | 4.77 | -38.64 | -13.00 | -25.64 | V | | | | | | |
| 2546.20 | -44.10 | 10.80 | 8.50 | -41.80 | -13.00 | -28.80 | V | | | | | | |
| 3395.07 | -42.84 | 12.50 | 11.90 | -42.24 | -13.00 | -29.24 | V | | | | | | |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

EDGE 850: (30-9000)MHz

| | | EGPRS | 6 850: (30- | 9000)MHz | | | | | | | | | |
|--|---------|-------------|-------------|------------|-----------|--------|----------|--|--|--|--|--|--|
| The Worst Test Results Channel 128/824.2 MHz | | | | | | | | | | | | | |
| | S G.Lev | Anot(dDi) | | PMea | Limit | Margin | Delority | | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 1648.03 | -40.79 | 9.40 | 4.75 | -36.14 | -13.00 | -23.14 | Н | | | | | | |
| 2472.55 | -40.42 | 10.60 | 8.39 | -38.21 | -13.00 | -25.21 | Н | | | | | | |
| 3296.88 | -32.17 | 12.00 | 11.79 | -31.96 | -13.00 | -18.96 | Н | | | | | | |
| 1648.16 | -44.44 | 9.40 | 4.75 | -39.79 | -13.00 | -26.79 | V | | | | | | |
| 2472.58 | -44.06 | 10.60 | 8.39 | -41.85 | -13.00 | -28.85 | V | | | | | | |
| 3296.54 | -42.82 | 12.00 | 11.79 | -42.61 | -13.00 | -29.61 | V | | | | | | |
| The Worst Test Results Channel 190/836.6 MHz | | | | | | | | | | | | | |
| | S G.Lev | Anot(dDi) | | PMea | Limit | Margin | Delority | | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 1672.79 | -40.50 | 9.50 | 4.76 | -35.76 | -13.00 | -22.76 | Н | | | | | | |
| 2509.90 | -39.82 | 10.70 | 8.40 | -37.52 | -13.00 | -24.52 | Н | | | | | | |
| 3346.35 | -31.77 | 12.20 | 11.80 | -31.37 | -13.00 | -18.37 | Н | | | | | | |
| 1672.82 | -44.47 | 9.40 | 4.75 | -39.82 | -13.00 | -26.82 | V | | | | | | |
| 2509.79 | -44.05 | 10.60 | 8.39 | -41.84 | -13.00 | -28.84 | V | | | | | | |
| 3346.35 | -42.66 | 12.20 | 11.82 | -42.28 | -13.00 | -29.28 | V | | | | | | |
| | The W | orst Test R | esults Ch | annel 251/ | 848.8 MHz | | | | | | | | |
| Frequency(MHz) | S G.Lev | A pt(dDi) | | PMea | Limit | Margin | Delority | | | | | | |
| Frequency(MHZ) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 1697.58 | -40.15 | 9.60 | 4.77 | -35.32 | -13.00 | -22.32 | Н | | | | | | |
| 2546.29 | -39.45 | 10.80 | 8.50 | -37.15 | -13.00 | -24.15 | Н | | | | | | |
| 3395.24 | -30.86 | 12.50 | 11.90 | -30.26 | -13.00 | -17.26 | Н | | | | | | |
| 1697.60 | -43.70 | 9.60 | 4.77 | -38.87 | -13.00 | -25.87 | V | | | | | | |
| 2546.41 | -45.24 | 10.80 | 8.50 | -42.94 | -13.00 | -29.94 | V | | | | | | |
| 3395.26 | -42.97 | 12.50 | 11.90 | -42.37 | -13.00 | -29.37 | V | | | | | | |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

PCS 1900: (30-20000)MHz

| | | DCS 1 | 900: (30-2 | 0000)MHz | | | | | | | | | |
|--|---------|-------------|-------------|------------|------------|--------|----------|--|--|--|--|--|--|
| The Worst Test Results for Channel 512/1850.2MHz | | | | | | | | | | | | | |
| | S G.Lev | Anot(dDi) | | PMea | Limit | Margin | Delority | | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 3700.12 | -33.64 | 12.60 | 12.93 | -33.97 | -13.00 | -20.97 | Н | | | | | | |
| 5550.56 | -34.85 | 13.10 | 17.11 | -38.86 | -13.00 | -25.86 | Н | | | | | | |
| 7400.50 | -32.41 | 11.50 | 22.20 | -43.11 | -13.00 | -30.11 | Н | | | | | | |
| 3700.51 | -35.57 | 12.60 | 12.93 | -35.90 | -13.00 | -22.90 | V | | | | | | |
| 5550.45 | -34.74 | 13.10 | 17.11 | -38.75 | -13.00 | -25.75 | V | | | | | | |
| 7401.00 | -32.56 | 11.50 | 22.20 | -43.26 | -13.00 | -30.26 | V | | | | | | |
| The Worst Test Results for Channel 661/1880.0MHz | | | | | | | | | | | | | |
| | S G.Lev | Ant(dDi) | | PMea | Limit | Margin | Polarity | | | | | | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 3759.79 | -34.31 | 12.60 | 12.93 | -34.64 | -13.00 | -21.64 | Н | | | | | | |
| 5639.83 | -35.13 | 13.10 | 17.11 | -39.14 | -13.00 | -26.14 | Н | | | | | | |
| 7520.27 | -33.59 | 11.50 | 22.20 | -44.29 | -13.00 | -31.29 | Н | | | | | | |
| 3760.23 | -35.58 | 12.60 | 12.93 | -35.91 | -13.00 | -22.91 | V | | | | | | |
| 5640.05 | -34.64 | 13.10 | 17.11 | -38.65 | -13.00 | -25.65 | V | | | | | | |
| 7520.23 | -33.11 | 11.50 | 22.20 | -43.81 | -13.00 | -30.81 | V | | | | | | |
| | The Wor | st Test Res | sults for C | hannel 810 |)/1909.8MH | z | | | | | | | |
| Frequency(MHz) | S G.Lev | Apt(dDi) | | PMea | Limit | Margin | Polarity | | | | | | |
| Frequency(MHZ) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | | | | | | |
| 3819.24 | -34.52 | 12.60 | 12.93 | -34.85 | -13.00 | -21.85 | Н | | | | | | |
| 5729.35 | -34.15 | 13.10 | 17.11 | -38.16 | -13.00 | -25.16 | Н | | | | | | |
| 7639.25 | -32.99 | 11.50 | 22.20 | -43.69 | -13.00 | -30.69 | Н | | | | | | |
| 3819.48 | -34.69 | 12.60 | 12.93 | -35.02 | -13.00 | -22.02 | V | | | | | | |
| 5729.16 | -35.23 | 13.10 | 17.11 | -39.24 | -13.00 | -26.24 | V | | | | | | |
| 7638.99 | -32.81 | 11.50 | 22.20 | -43.51 | -13.00 | -30.51 | V | | | | | | |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

GPRS 1900: (30-20000)MHz

| GPRS1900: (30-20000)MHz | | | | | | | | |
|--|---------|-------------|-------------|------------|------------|--------|----------|--|
| The Worst Test Results for Channel 512/1850.2MHz | | | | | | | | |
| Frequency(MHz) | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity | |
| | (dBm) | | | (dBm) | (dBm) | (dBm) | | |
| 3700.07 | -34.76 | 12.60 | 12.93 | -35.09 | -13.00 | -22.09 | Н | |
| 5550.37 | -34.44 | 13.10 | 17.11 | -38.45 | -13.00 | -25.45 | Н | |
| 7400.77 | -32.71 | 11.50 | 22.20 | -43.41 | -13.00 | -30.41 | Н | |
| 3700.51 | -35.62 | 12.60 | 12.93 | -35.95 | -13.00 | -22.95 | V | |
| 5550.61 | -34.94 | 13.10 | 17.11 | -38.95 | -13.00 | -25.95 | V | |
| 7400.59 | -32.86 | 11.50 | 22.20 | -43.56 | -13.00 | -30.56 | V | |
| The Worst Test Results for Channel 661/1880.0MHz | | | | | | | | |
| Frequency(MHz) | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity | |
| Frequency(MHZ) | (dBm) | Anii(ubi) | | (dBm) | (dBm) | (dBm) | | |
| 3760.09 | -33.94 | 12.60 | 12.93 | -34.27 | -13.00 | -21.27 | Н | |
| 5639.92 | -34.17 | 13.10 | 17.11 | -38.18 | -13.00 | -25.18 | Н | |
| 7520.12 | -33.58 | 11.50 | 22.20 | -44.28 | -13.00 | -31.28 | Н | |
| 3760.00 | -35.82 | 12.60 | 12.93 | -36.15 | -13.00 | -23.15 | V | |
| 5640.22 | -33.98 | 13.10 | 17.11 | -37.99 | -13.00 | -24.99 | V | |
| 7519.97 | -32.42 | 11.50 | 22.20 | -43.12 | -13.00 | -30.12 | V | |
| | The Wor | st Test Res | sults for C | hannel 810 |)/1909.8MH | z | | |
| | S G.Lev | A pt(dDi) | | PMea | Limit | Margin | Delority | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | |
| 3819.46 | -34.40 | 12.60 | 12.93 | -34.73 | -13.00 | -21.73 | Н | |
| 5729.11 | -34.09 | 13.10 | 17.11 | -38.10 | -13.00 | -25.10 | Н | |
| 7639.12 | -32.30 | 11.50 | 22.20 | -43.00 | -13.00 | -30.00 | Н | |
| 3819.36 | -34.63 | 12.60 | 12.93 | -34.96 | -13.00 | -21.96 | V | |
| 5729.24 | -34.92 | 13.10 | 17.11 | -38.93 | -13.00 | -25.93 | V | |
| 7639.02 | -31.74 | 11.50 | 22.20 | -42.44 | -13.00 | -29.44 | V | |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

EDGE 1900: (30-20000)MHz

| EGPRS 1900: (30-20000)MHz | | | | | | | |
|--|---------|-------------|-------------|------------|------------|--------|----------|
| The Worst Test Results for Channel 512/1850.2MHz | | | | | | | |
| Frequency(MHz) | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity |
| | (dBm) | | | (dBm) | (dBm) | (dBm) | |
| 3700.00 | -34.12 | 12.60 | 12.93 | -34.45 | -13.00 | -21.45 | Н |
| 5550.45 | -34.95 | 13.10 | 17.11 | -38.96 | -13.00 | -25.96 | Н |
| 7400.49 | -33.39 | 11.50 | 22.20 | -44.09 | -13.00 | -31.09 | Н |
| 3700.51 | -35.15 | 12.60 | 12.93 | -35.48 | -13.00 | -22.48 | V |
| 5550.42 | -33.79 | 13.10 | 17.11 | -37.80 | -13.00 | -24.80 | V |
| 7400.63 | -32.11 | 11.50 | 22.20 | -42.81 | -13.00 | -29.81 | V |
| The Worst Test Results for Channel 661/1880.0MHz | | | | | | | |
| | S G.Lev | Anot(dDi) | | PMea | Limit | Margin | Polarity |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | |
| 3759.94 | -33.48 | 12.60 | 12.93 | -33.81 | -13.00 | -20.81 | Н |
| 5639.99 | -34.50 | 13.10 | 17.11 | -38.51 | -13.00 | -25.51 | Н |
| 7520.07 | -33.18 | 11.50 | 22.20 | -43.88 | -13.00 | -30.88 | Н |
| 3760.33 | -35.19 | 12.60 | 12.93 | -35.52 | -13.00 | -22.52 | V |
| 5640.20 | -34.45 | 13.10 | 17.11 | -38.46 | -13.00 | -25.46 | V |
| 7520.18 | -31.91 | 11.50 | 22.20 | -42.61 | -13.00 | -29.61 | V |
| | The Wor | st Test Res | sults for C | hannel 810 |)/1909.8MH | z | |
| Frequency(MHz) | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Delcritu |
| Frequency(MHZ) | (dBm) | Ani(ubi) | L055 | (dBm) | (dBm) | (dBm) | Polarity |
| 3819.51 | -34.74 | 12.60 | 12.93 | -35.07 | -13.00 | -22.07 | Н |
| 5729.31 | -34.74 | 13.10 | 17.11 | -38.75 | -13.00 | -25.75 | Н |
| 7638.99 | -33.41 | 11.50 | 22.20 | -44.11 | -13.00 | -31.11 | Н |
| 3819.68 | -35.37 | 12.60 | 12.93 | -35.70 | -13.00 | -22.70 | V |
| 5729.20 | -35.13 | 13.10 | 17.11 | -39.14 | -13.00 | -26.14 | V |
| 7639.38 | -32.04 | 11.50 | 22.20 | -42.74 | -13.00 | -29.74 | V |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 8GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

UMTS band V(30-9000)MHz

| | | WCDMA | Band V: (3 | 80-9000)MH | łz | | | |
|--|---------|-------------|------------|------------|-----------|--------|----------|--|
| The wost testresults channel 4132/826.4MHz | | | | | | | | |
| Frequency(MHz) | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity | |
| | (dBm) | | | (dBm) | (dBm) | (dBm) | | |
| 1652.37 | -41.34 | 9.40 | 4.75 | -36.69 | -13.00 | -23.69 | Н | |
| 2479.48 | -39.57 | 10.60 | 8.39 | -37.36 | -13.00 | -24.36 | Н | |
| 3305.85 | -31.36 | 12.00 | 11.79 | -31.15 | -13.00 | -18.15 | Н | |
| 1652.43 | -43.79 | 9.40 | 4.75 | -39.14 | -13.00 | -26.14 | V | |
| 2479.30 | -44.34 | 10.60 | 8.39 | -42.13 | -13.00 | -29.13 | V | |
| 3305.61 | -43.56 | 12.00 | 11.79 | -43.35 | -13.00 | -30.35 | V | |
| The Worst Test Results Channel 4183/836.6MHz | | | | | | | | |
| | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity | |
| Frequency(MHz) | (dBm) | | | (dBm) | (dBm) | (dBm) | | |
| 1673.25 | -41.21 | 9.50 | 4.76 | -36.47 | -13.00 | -23.47 | Н | |
| 2509.56 | -40.63 | 10.70 | 8.40 | -38.33 | -13.00 | -25.33 | Н | |
| 3345.99 | -31.98 | 12.20 | 11.80 | -31.58 | -13.00 | -18.58 | Н | |
| 1673.05 | -44.53 | 9.40 | 4.75 | -39.88 | -13.00 | -26.88 | V | |
| 2509.48 | -44.73 | 10.60 | 8.39 | -42.52 | -13.00 | -29.52 | V | |
| 3346.15 | -43.11 | 12.20 | 11.82 | -42.73 | -13.00 | -29.73 | V | |
| | The Wo | orst Test R | esults Cha | annel 4233 | /846.6MHz | | | |
| | S G.Lev | Apt(dDi) | | PMea | Limit | Margin | Delority | |
| Frequency(MHz) | (dBm) | Ant(dBi) | Loss | (dBm) | (dBm) | (dBm) | Polarity | |
| 1693.50 | -40.61 | 9.60 | 4.77 | -35.78 | -13.00 | -22.78 | Н | |
| 2539.23 | -40.47 | 10.80 | 8.50 | -38.17 | -13.00 | -25.17 | Н | |
| 3386.16 | -30.91 | 12.50 | 11.90 | -30.31 | -13.00 | -17.31 | Н | |
| 1693.31 | -44.38 | 9.60 | 4.77 | -39.55 | -13.00 | -26.55 | V | |
| 2539.23 | -43.97 | 10.80 | 8.50 | -41.67 | -13.00 | -28.67 | V | |
| 3386.12 | -42.80 | 12.50 | 11.90 | -42.20 | -13.00 | -29.20 | V | |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 3GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

UMTS band II(30-20000)MHz

| WCDMA Band II: (30-20000)MHz | | | | | | | | |
|---|----------|-------------|-------------|------------|------------|--------|----------|--|
| The Worst Test Results for Channel 9262/1852.4MHz | | | | | | | | |
| Frequency(MHz) | S G.Lev | V Anot(dDi) | Loss | PMea | Limit | Margin | | |
| | (dBm) | Ant(dBi) | | (dBm) | (dBm) | (dBm) | Polarity | |
| 3704.07 | -33.58 | 12.60 | 12.93 | -33.91 | -13.00 | -20.91 | Н | |
| 5557.32 | -35.19 | 13.10 | 17.11 | -39.20 | -13.00 | -26.20 | Н | |
| 7409.80 | -32.74 | 11.50 | 22.20 | -43.44 | -13.00 | -30.44 | Н | |
| 3704.16 | -35.17 | 12.60 | 12.93 | -35.50 | -13.00 | -22.50 | V | |
| 5557.48 | -34.22 | 13.10 | 17.11 | -38.23 | -13.00 | -25.23 | V | |
| 7409.80 | -32.48 | 11.50 | 22.20 | -43.18 | -13.00 | -30.18 | V | |
| The Worst Test Results for Channel 9400/1880MHz | | | | | | | | |
| | S G.Lev | Ant(dBi) | Loss | PMea | Limit | Margin | Polarity | |
| Frequency(MHz) | (dBm) | | | (dBm) | (dBm) | (dBm) | | |
| 3759.78 | -33.52 | 12.60 | 12.93 | -33.85 | -13.00 | -20.85 | Н | |
| 5640.21 | -34.19 | 13.10 | 17.11 | -38.20 | -13.00 | -25.20 | Н | |
| 7520.15 | -33.32 | 11.50 | 22.20 | -44.02 | -13.00 | -31.02 | Н | |
| 3759.91 | -35.91 | 12.60 | 12.93 | -36.24 | -13.00 | -23.24 | V | |
| 5640.34 | -33.87 | 13.10 | 17.11 | -37.88 | -13.00 | -24.88 | V | |
| 7520.19 | -32.69 | 11.50 | 22.20 | -43.39 | -13.00 | -30.39 | V | |
| | The Wors | st Test Res | ults for Ch | nannel 953 | 8/1907.6MH | Iz | | |
| | S G.Lev | Ant(dBi) | | PMea | Limit | Margin | Delority | |
| Frequency(MHz) | (dBm) | Апциы) | Loss | (dBm) | (dBm) | (dBm) | Polarity | |
| 3815.66 | -34.20 | 12.60 | 12.93 | -34.53 | -13.00 | -21.53 | Н | |
| 5722.13 | -34.99 | 13.10 | 17.11 | -39.00 | -13.00 | -26.00 | Н | |
| 7630.20 | -33.03 | 11.50 | 22.20 | -43.73 | -13.00 | -30.73 | Н | |
| 3815.67 | -34.98 | 12.60 | 12.93 | -35.31 | -13.00 | -22.31 | V | |
| 5722.22 | -34.69 | 13.10 | 17.11 | -38.70 | -13.00 | -25.70 | V | |
| 7629.86 | -32.29 | 11.50 | 22.20 | -42.99 | -13.00 | -29.99 | V | |

Note: (1)Below 30MHz no Spurious found is the worst condition.

(2)Above 6GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has.

APPENDIX BPHOTOS OF TEST SETUP



RADIATED SPURIOUS EMISSION