



FCC RADIO TEST REPORT

FCC ID : PY7-58241M
Equipment : GSM/WCDMA/LTE Phone+Bluetooth,
DTS/UNII a/b/g/n/ac and NFC
Brand Name : Sony
Applicant : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Manufacturer : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Standard : 47 CFR Part 2, 22(H), 24(E)

The product was received on Aug. 14, 2018 and testing was started from Aug. 31, 2018 and completed on Oct. 11, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Joseph Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



Table of Contents

| | |
|--|-----------|
| History of this test report | 3 |
| Summary of Test Result | 4 |
| 1 General Description..... | 5 |
| 1.1 Product Feature of Equipment Under Test | 5 |
| 1.2 Modification of EUT | 5 |
| 1.3 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator | 6 |
| 1.4 Testing Location..... | 6 |
| 1.5 Applicable Standards | 7 |
| 2 Test Configuration of Equipment Under Test..... | 8 |
| 2.1 Test Mode | 8 |
| 2.2 Connection Diagram of Test System | 9 |
| 2.3 Support Unit used in test configuration | 9 |
| 2.4 Measurement Results Explanation Example | 9 |
| 2.5 Frequency List of Low/Middle/High Channels | 10 |
| 3 Conducted Test Result..... | 11 |
| 3.1 Measuring Instruments | 11 |
| 3.2 Conducted Output Power and ERP/EIRP..... | 12 |
| 3.3 Peak-to-Average Ratio | 13 |
| 3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement | 14 |
| 3.5 Conducted Band Edge | 15 |
| 3.6 Conducted Spurious Emission | 16 |
| 3.7 Frequency Stability | 17 |
| 4 Radiated Test Items | 18 |
| 4.1 Measuring Instruments | 18 |
| 4.2 Test Setup | 18 |
| 4.3 Test Result of Radiated Test..... | 18 |
| 4.4 Field Strength of Spurious Radiation Measurement..... | 19 |
| 5 List of Measuring Equipment | 20 |
| 6 Uncertainty of Evaluation | 22 |
| Appendix A. Test Results of Conducted Test | |
| Appendix B. Test Results of ERP/EIRP and Radiated Test | |



Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|---------------------------------------|--|--------------------|--|
| 3.2 | §2.1046 | Conducted Output Power | Pass | - |
| | §22.913 (a)(2) | Effective Radiated Power | | |
| | §24.232 (c) | Equivalent Isotropic Radiated Power | | |
| 3.3 | §24.232 (d) | Peak-to-Average Ratio | Pass | - |
| 3.4 | §2.1049 §22.917 (b) §24.238 (b) | Occupied Bandwidth | Pass | - |
| 3.5 | §2.1051 §22.917 (a) §24.238 (a) | Band Edge Measurement | Pass | - |
| 3.6 | §2.1051 §22.917 (a) §24.238 (a) | Conducted Emission | Pass | - |
| 3.7 | §2.1055 §22.355 | Frequency Stability Temperature & Voltage | Pass | - |
| | §2.1055 §24.235 | | | - |
| 4.4 | §2.1053 §22.917 (a) §24.238 (a) | Field Strength of Spurious Radiation | Pass | Under limit 20.37 dB at 2512.000 MHz |

Reviewed by: Wii Chang

Report Producer: Natasha Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GNSS.

| Standards-related Product Specification | |
|---|--------------|
| Antenna Type | PIFA Antenna |

| EUT Information List | | | |
|----------------------|------------|------------|---|
| HW Version | SW Version | S/N | Performed Test Item |
| A | 1.27 | CQ30013BYB | Conducted Measurement |
| | | CQ30019C4Q | Radiated Spurious Emission ERP/EIRP Test |

| Accessory List | |
|----------------|--------------------|
| AC Adapter | Model Name: UCH32 |
| | S/N: 6218W30200038 |
| Earphone | Model Name: MH410c |
| | S/N: N/A |
| USB Cable | Model Name: UCB24 |
| | S/N: N/A |

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
3. For other wireless features of this EUT, test report will be issued separately.

1.2 Modification of EUT

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



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

| FCC Rule | Frequency Range (MHz) | System | Type of Modulation | Maximum ERP/EIRP (W) | Frequency Tolerance (ppm) | Emission Designator |
|----------|-----------------------|-------------------------------|--------------------|----------------------|---------------------------|---------------------|
| Part 22 | 824.2 ~848.8 | GSM850 GPRS class 8 | GMSK | 0.5420 | 0.0060 ppm | 248KGXW |
| Part 22 | 824.2 ~848.8 | GSM850 EDGE class 8 | 8PSK | 0.1496 | 0.0036 ppm | 248KG7W |
| Part 22 | 826.4 ~846.6 | WCDMA Band V RMC 12.2Kbps | BPSK | 0.0676 | 0.0155 ppm | 4M16F9W |
| Part 24 | 1850.2 ~1909.8 | GSM1900 GPRS class 8 | GMSK | 0.7096 | 0.0011 ppm | 246KGXW |
| Part 24 | 1850.2 ~1909.8 | GSM1900 EDGE class 8 | 8PSK | 0.2443 | 0.0064 ppm | 249KG7W |
| Part 24 | 1852.4 ~ 1907.6 | WCDMA Band II RMC 12.2Kbps | BPSK | 0.1146 | 0.0048 ppm | 4M17F9W |

1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 |
| Test Site No. | Sporton Site No. TH03-HY |

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

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. 03CH12-HY |

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



1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane for PCS Band for Z plane for Cellular Band) were recorded in this report.

Radiated emissions were investigated as following frequency range:

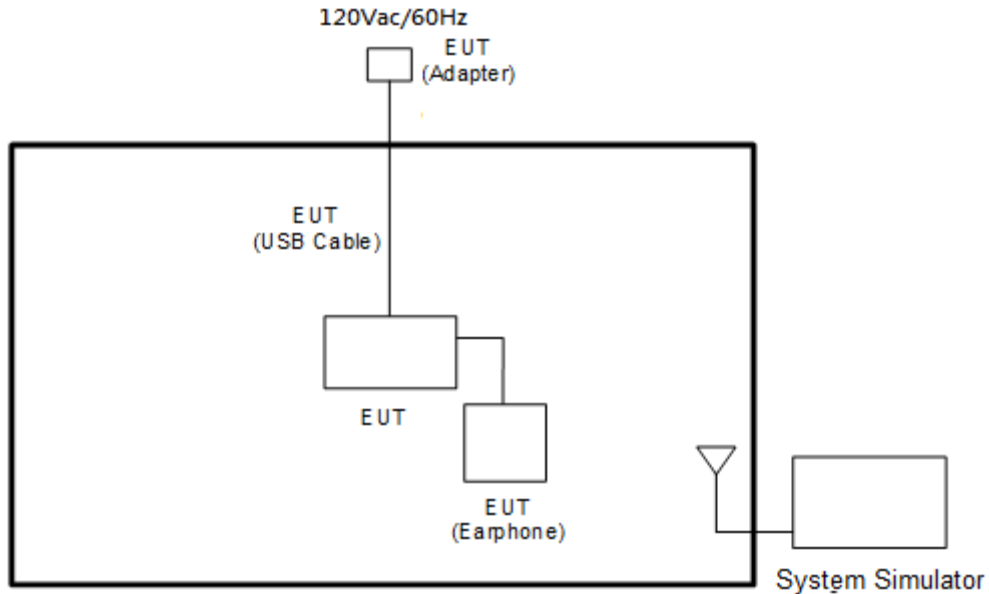
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

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 | ■ GPRS Class 8 Link | ■ GPRS Class 8 Link |
| | ■ EDGE Class 8 Link | ■ EDGE Class 8 Link |
| GSM 1900 | ■ GPRS Class 8 Link | ■ GPRS Class 8 Link |
| | ■ EDGE Class 8 Link | ■ EDGE Class 8 Link |
| WCDMA Band V | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |
| WCDMA Band II | ■ RMC 12.2Kbps Link | ■ RMC 12.2Kbps Link |

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | System Simulator | Anritsu | 8820C | N/A | N/A | Unshielded, 1.8 m |

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

$Offset = RF\ cable\ loss + attenuator\ factor.$

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

Example:

$$\begin{aligned}
 Offset(dB) &= RF\ cable\ loss(dB) + attenuator\ factor(dB). \\
 &= 4.2 + 10 = 14.2\ (dB)
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

| Frequency List | | | | |
|----------------|------------------------|--------|--------|---------|
| Band | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| GSM850 | Channel | 128 | 189 | 251 |
| | Frequency | 824.2 | 836.4 | 848.8 |
| WCDMA Band V | Channel | 4132 | 4182 | 4233 |
| | Frequency | 826.4 | 836.4 | 846.6 |
| GSM1900 | Channel | 512 | 661 | 810 |
| | Frequency | 1850.2 | 1880.0 | 1909.8 |
| WCDMA Band II | Channel | 9262 | 9400 | 9538 |
| | Frequency | 1852.4 | 1880.0 | 1907.6 |

3 Conducted Test Result

3.1 Measuring Instruments

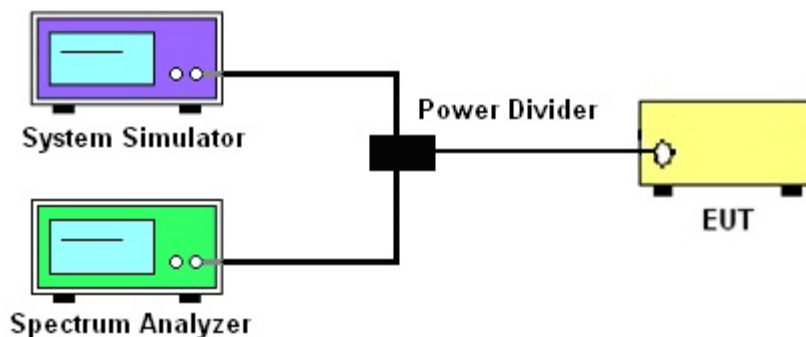
See list of measuring instruments of this test report.

3.1.1 Test Setup

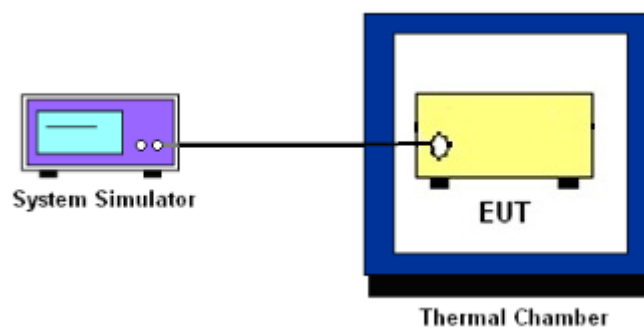
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

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.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.1

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



3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

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

3.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 4.2

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



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

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

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. 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.
3. The band edges of low and high channels for the highest RF powers were measured.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

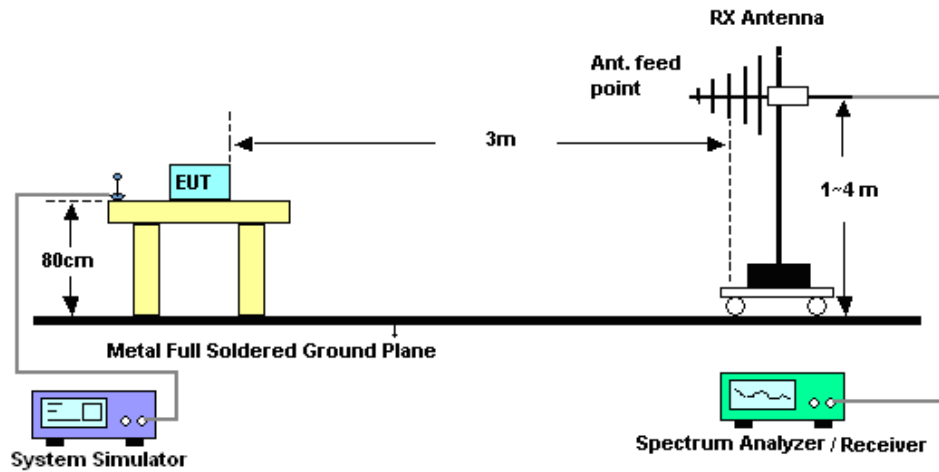
4 Radiated Test Items

4.1 Measuring Instruments

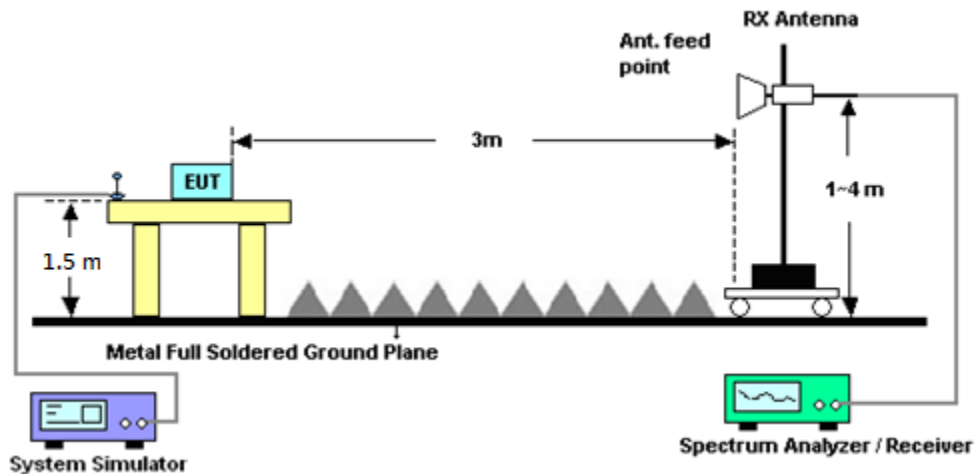
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI / TIA-603-E Section 2.2.12.

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



5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|-----------------|--------------------------|-------------|-----------------------------|------------------|---------------------------------|---------------|-----------------------|
| Base Station (Measure) | Rohde & Schwarz | CMU200 | 117995 | GSM / GPRS / WCDMA / CDMA | Aug. 10, 2018 | Aug. 31, 2018 | Aug. 09, 2019 | Conducted (TH03-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSP30 | 101329 | 9kHz~30GHz | Jun. 29, 2018 | Aug. 31, 2018 | Jun. 28, 2019 | Conducted (TH03-HY) |
| Temperature Chamber | ESPEC | SU-641 | 92013721 | -30°C ~70°C | Dec. 06, 2017 | Aug. 31, 2018 | Dec. 05, 2018 | Conducted (TH03-HY) |
| Programmable Power Supply | GW Instek | PSS-2005 | EL883644 | Voltage:0~20V; Current:0~5A | Dec. 06, 2017 | Aug. 31, 2018 | Dec. 05, 2018 | Conducted (TH03-HY) |
| Hygrometer | Testo | 608-H1 | 34893241 | N/A | Mar. 06, 2018 | Aug. 31, 2018 | Mar. 05, 2019 | Conducted (TH03-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100488 | 9 kHz~30 MHz | Nov. 23, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Nov. 22, 2018 | Radiation (03CH12-HY) |
| Bilog Antenna | TESEQ | CBL 6111D&00800N1D01N-06 | 37059&01 | 30MHz~1GHz | Oct. 14, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Oct. 13, 2018 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1328 | 1GHz ~ 18GHz | Oct. 20, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Oct. 19, 2018 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1522 | 1GHz ~ 18GHz | May 10, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | May 09, 2019 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 18GHz- 40GHz | Nov. 10, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Nov. 09, 2018 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170584 | 18GHz ~ 40GHz | Nov. 27, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Nov. 26, 2018 | Radiation (03CH12-HY) |
| Preamplifier | COM-POWER | PA-103 | 161075 | 10MHz~1GHz | Mar. 26, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Mar. 25, 2019 | Radiation (03CH12-HY) |
| Preamplifier | Keysight | 83017A | MY53270148 | 1GHz~26.5GHz | Jan. 15, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Jan. 14, 2019 | Radiation (03CH12-HY) |
| Preamplifier | EMEC | EM18G40G | 060715 | 18GHz ~ 40GHz | Dec. 05, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Dec. 04, 2018 | Radiation (03CH12-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESU26 | 100390 | 20Hz~26.5GHz | Dec. 25, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Dec. 24, 2018 | Radiation (03CH12-HY) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------|--------------------|-------------------------------------|------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Hygrometer | TECEPEL | DTM-303B | TP161243 | N/A | May 12, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | May 11, 2019 | Radiation (03CH12-HY) |
| Notch Filter | Wainwright | WRCT1850/ 1910-40/8SS | SN21 | 1900 | Nov. 08, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Nov. 07, 2018 | Radiation (03CH12-HY) |
| Notch Filter | Wainwright | WTRCT5-82 4-849-20-70- 60SSK | SN1 | 824-849 | Mar. 22, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Mar. 21, 2019 | Radiation (03CH12-HY) |
| Filter | Wainwright | WLJ4-1000- 1530-6000-4 0ST | SN3 | 1.53 GHz Lowpass | Mar. 21, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Mar. 20, 2019 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-27 00-3000-180 00-60ST | SN2 | 3 GHz High Pass | Spe. 16, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Sep. 15, 2019 | Radiation (03CH12-HY) |
| Filter | Wainwright | WHKX12-10 80-1200-150 00-60ST | SN1 | 1.2 GHz High Pass | Spe. 16, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Sep. 15, 2019 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY15539/4 | 30M-18G | Mar. 14, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | Mar. 13, 2019 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 505134/2 | 30M~40GHz | Oct. 17, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Oct. 16, 2018 | Radiation (03CH12-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 800740/2 | 30M~40GHz | Oct. 17, 2017 | Oct. 10, 2018~ Oct. 11, 2018 | Oct. 16, 2018 | Radiation (03CH12-HY) |
| Controller | EMEC | EM1000 | N/A | Control Turn table & Ant Mast | N/A | Oct. 10, 2018~ Oct. 11, 2018 | N/A | Radiation (03CH12-HY) |
| Antenna Mast | EMEC | AM-BS-4500 -B | N/A | 1m~4m | N/A | Oct. 10, 2018~ Oct. 11, 2018 | N/A | Radiation (03CH12-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0~360 Degree | N/A | Oct. 10, 2018~ Oct. 11, 2018 | N/A | Radiation (03CH12-HY) |
| Signal Generator | Rohde & Schwarz | SMF100A | 101107 | 100kHz~40GHz | May 21, 2018 | Oct. 10, 2018~ Oct. 11, 2018 | May 20, 2019 | Radiation (03CH12-HY) |
| Software | Audix | E3 6.2009-8-24 | RK-000989 | N/A | N/A | Oct. 10, 2018~ Oct. 11, 2018 | N/A | Radiation (03CH12-HY) |



6 Uncertainty of Evaluation

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.36 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.70 |
|---|------|

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.98 |
|---|------|



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------|-------|--------------|---------|-------|--------------|
| Band | GSM850 | | | GSM1900 | | |
| Channel | 128 | 189 | 251 | 512 | 661 | 810 |
| Frequency | 824.2 | 836.4 | 848.8 | 1850.2 | 1880 | 1909.8 |
| GSM | 32.75 | 32.87 | 33.08 | 29.14 | 29.80 | 30.00 |
| GPRS class 8 | 32.76 | 32.88 | 33.09 | 29.14 | 29.82 | 30.01 |
| GPRS class 10 | 30.61 | 30.52 | 30.56 | 26.47 | 26.97 | 27.09 |
| GPRS class 11 | 28.84 | 28.49 | 28.40 | 24.70 | 25.33 | 25.18 |
| GPRS class 12 | 27.21 | 27.86 | 27.85 | 24.02 | 24.55 | 24.90 |
| EGPRS class 8 | 27.30 | 27.19 | 27.50 | 24.94 | 24.94 | 25.38 |
| EGPRS class 10 | 27.07 | 26.93 | 26.90 | 25.36 | 24.71 | 24.92 |
| EGPRS class 11 | 26.69 | 26.51 | 26.48 | 25.06 | 23.95 | 24.24 |
| EGPRS class 12 | 26.38 | 26.12 | 26.02 | 24.71 | 23.57 | 23.74 |

| Conducted Power (*Unit: dBm) | | | | | | |
|------------------------------|--------------|-------|-------|---------------|-------|--------------|
| Band | WCDMA Band V | | | WCDMA Band II | | |
| Channel | 4132 | 4182 | 4233 | 9262 | 9400 | 9538 |
| Frequency | 826.4 | 836.4 | 846.6 | 1852.4 | 1880 | 1907.6 |
| RMC 12.2K | 24.05 | 23.91 | 23.89 | 21.58 | 21.65 | 22.09 |
| HSDPA Subtest-1 | 23.09 | 22.94 | 22.94 | 20.66 | 20.70 | 21.14 |
| HSDPA Subtest-2 | 23.14 | 23.01 | 22.98 | 20.65 | 20.68 | 21.16 |
| HSDPA Subtest-3 | 22.66 | 22.52 | 22.48 | 20.18 | 20.24 | 20.64 |
| HSDPA Subtest-4 | 22.67 | 22.53 | 22.13 | 20.18 | 20.20 | 20.67 |
| HSUPA Subtest-1 | 23.00 | 22.96 | 22.89 | 20.65 | 20.72 | 21.15 |
| HSUPA Subtest-2 | 20.93 | 21.00 | 20.92 | 18.69 | 18.71 | 19.13 |
| HSUPA Subtest-3 | 22.00 | 21.96 | 21.87 | 19.69 | 19.74 | 20.13 |
| HSUPA Subtest-4 | 21.00 | 20.79 | 20.97 | 18.66 | 18.72 | 19.10 |
| HSUPA Subtest-5 | 23.00 | 22.80 | 22.90 | 20.70 | 20.70 | 21.20 |



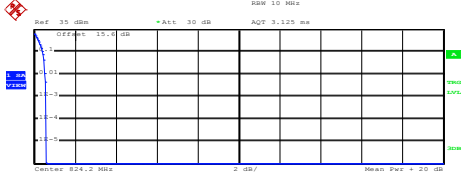
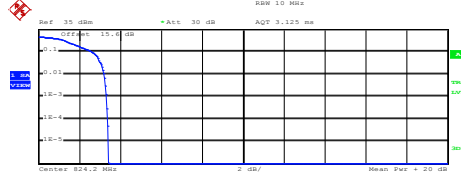
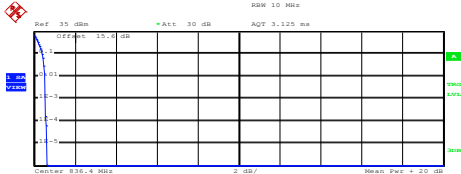
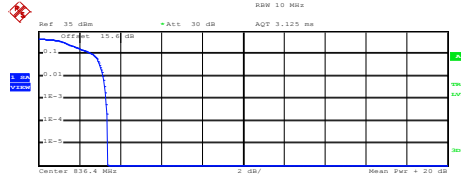
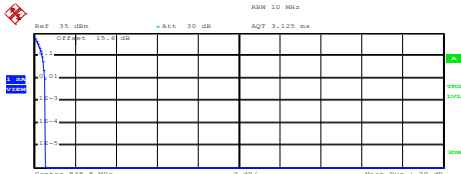
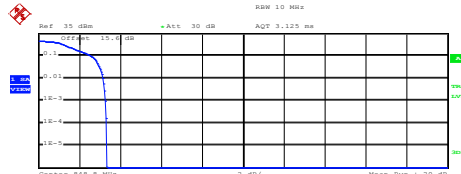
A2. GSM

Peak-to-Average Ratio

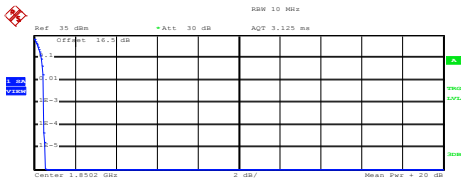
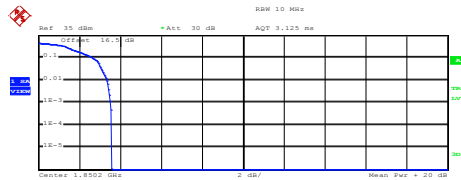
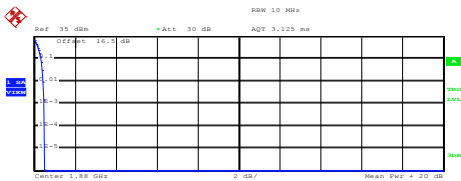
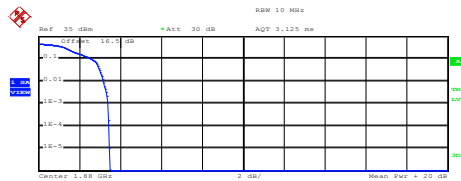
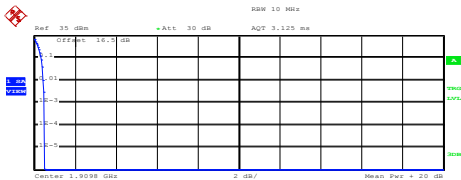
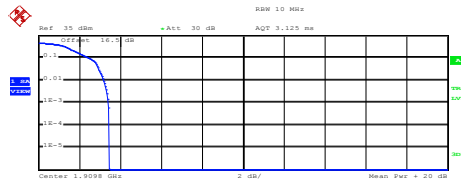
| Mode | GSM850 | | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod. | GPRS class 8 | EDGE class 8 | Result |
| Lowest CH | 0.60 | 3.32 | PASS |
| Middle CH | 0.56 | 3.32 | |
| Highest CH | 0.56 | 3.28 | |

| Mode | GSM1900 | | Limit: 13dB |
|------------|--------------|--------------|-------------|
| Mod. | GPRS class 8 | EDGE class 8 | Result |
| Lowest CH | 0.48 | 3.52 | PASS |
| Middle CH | 0.48 | 3.40 | |
| Highest CH | 0.52 | 3.44 | |



| GSM850 (GPRS class 8) | GSM850 (EDGE class 8) |
|---|---|
| Lowest Channel | Lowest Channel |
|  <p>Ref: 35 dBm +Att: 30 dB AGT: 3.125 ms</p> <p>Center: 824.2 MHz 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 28.46 dBm Peak: 29.05 dBm Crest: 0.59 dB</p> <p>10 %: 0.40 dB 1 %: 0.52 dB .1 %: 0.60 dB .01 %: 0.60 dB</p> <p>Date: 31.AUG.2018 10:24:36</p> |  <p>Ref: 35 dBm +Att: 30 dB AGT: 3.125 ms</p> <p>Center: 824.2 MHz 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 27.05 dBm Peak: 30.46 dBm Crest: 3.40 dB</p> <p>10 %: 2.64 dB 1 %: 3.20 dB .1 %: 3.32 dB .01 %: 3.40 dB</p> <p>Date: 9.SEP.2018 10:56:19</p> |
| Middle Channel | Middle Channel |
|  <p>Ref: 35 dBm +Att: 30 dB AGT: 3.125 ms</p> <p>Center: 836.4 MHz 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 28.92 dBm Peak: 29.54 dBm Crest: 0.62 dB</p> <p>10 %: 0.40 dB 1 %: 0.52 dB .1 %: 0.56 dB .01 %: 0.60 dB</p> <p>Date: 31.AUG.2018 10:24:53</p> |  <p>Ref: 35 dBm +Att: 30 dB AGT: 3.125 ms</p> <p>Center: 836.4 MHz 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 27.07 dBm Peak: 30.46 dBm Crest: 3.39 dB</p> <p>10 %: 2.64 dB 1 %: 3.16 dB .1 %: 3.32 dB .01 %: 3.40 dB</p> <p>Date: 9.SEP.2018 10:56:35</p> |
| Highest Channel | Highest Channel |
|  <p>Ref: 35 dBm +Att: 30 dB AGT: 3.125 ms</p> <p>Center: 848.8 MHz 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 29.20 dBm Peak: 29.75 dBm Crest: 0.55 dB</p> <p>10 %: 0.40 dB 1 %: 0.52 dB .1 %: 0.56 dB .01 %: 0.56 dB</p> <p>Date: 31.AUG.2018 10:25:10</p> |  <p>Ref: 35 dBm +Att: 30 dB AGT: 3.125 ms</p> <p>Center: 848.8 MHz 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 26.99 dBm Peak: 30.31 dBm Crest: 3.32 dB</p> <p>10 %: 2.60 dB 1 %: 3.16 dB .1 %: 3.28 dB .01 %: 3.32 dB</p> <p>Date: 9.SEP.2018 10:56:54</p> |



| GSM1900 (GPRS class 8) | GSM1900 (EDGE class 8) | | | | | | | | | | | | | | | | |
|---|------------------------|---------|-----|---------|------|---------|-------|---------|---|------|---------|-----|---------|------|---------|-------|---------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | |
|  <p>Ref: 35 dBm, Att: 30 dB, RBW: 10 MHz, AQT: 3.125 ms, Mean Pwr: +20 dB</p> <p>Center: 1.8502 GHz, 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 29.63 dBm Peak: 30.17 dBm Crest: 0.54 dB</p> <table border="1"> <tr><td>10 %</td><td>0.36 dB</td></tr> <tr><td>1 %</td><td>0.44 dB</td></tr> <tr><td>.1 %</td><td>0.48 dB</td></tr> <tr><td>.01 %</td><td>0.48 dB</td></tr> </table> <p>Date: 31.AUG.2018 10:55:11</p> | 10 % | 0.36 dB | 1 % | 0.44 dB | .1 % | 0.48 dB | .01 % | 0.48 dB |  <p>Ref: 35 dBm, Att: 30 dB, RBW: 10 MHz, AQT: 3.125 ms, Mean Pwr: +20 dB</p> <p>Center: 1.8502 GHz, 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 24.48 dBm Peak: 28.06 dBm Crest: 3.58 dB</p> <table border="1"> <tr><td>10 %</td><td>2.68 dB</td></tr> <tr><td>1 %</td><td>3.36 dB</td></tr> <tr><td>.1 %</td><td>3.52 dB</td></tr> <tr><td>.01 %</td><td>3.60 dB</td></tr> </table> <p>Date: 9.SEP.2018 11:10:12</p> | 10 % | 2.68 dB | 1 % | 3.36 dB | .1 % | 3.52 dB | .01 % | 3.60 dB |
| 10 % | 0.36 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.48 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.48 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.68 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.36 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.52 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.60 dB | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | |
|  <p>Ref: 35 dBm, Att: 30 dB, RBW: 10 MHz, AQT: 3.125 ms, Mean Pwr: +20 dB</p> <p>Center: 1.88 GHz, 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 29.76 dBm Peak: 30.24 dBm Crest: 0.49 dB</p> <table border="1"> <tr><td>10 %</td><td>0.36 dB</td></tr> <tr><td>1 %</td><td>0.44 dB</td></tr> <tr><td>.1 %</td><td>0.48 dB</td></tr> <tr><td>.01 %</td><td>0.52 dB</td></tr> </table> <p>Date: 31.AUG.2018 10:55:30</p> | 10 % | 0.36 dB | 1 % | 0.44 dB | .1 % | 0.48 dB | .01 % | 0.52 dB |  <p>Ref: 35 dBm, Att: 30 dB, RBW: 10 MHz, AQT: 3.125 ms, Mean Pwr: +20 dB</p> <p>Center: 1.88 GHz, 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 24.83 dBm Peak: 28.34 dBm Crest: 3.51 dB</p> <table border="1"> <tr><td>10 %</td><td>2.60 dB</td></tr> <tr><td>1 %</td><td>3.20 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> <p>Date: 9.SEP.2018 11:10:33</p> | 10 % | 2.60 dB | 1 % | 3.20 dB | .1 % | 3.40 dB | .01 % | 3.44 dB |
| 10 % | 0.36 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.48 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.52 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.60 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.20 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.40 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.44 dB | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | |
|  <p>Ref: 35 dBm, Att: 30 dB, RBW: 10 MHz, AQT: 3.125 ms, Mean Pwr: +20 dB</p> <p>Center: 1.9098 GHz, 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 29.47 dBm Peak: 29.96 dBm Crest: 0.50 dB</p> <table border="1"> <tr><td>10 %</td><td>0.36 dB</td></tr> <tr><td>1 %</td><td>0.44 dB</td></tr> <tr><td>.1 %</td><td>0.52 dB</td></tr> <tr><td>.01 %</td><td>0.52 dB</td></tr> </table> <p>Date: 31.AUG.2018 10:55:48</p> | 10 % | 0.36 dB | 1 % | 0.44 dB | .1 % | 0.52 dB | .01 % | 0.52 dB |  <p>Ref: 35 dBm, Att: 30 dB, RBW: 10 MHz, AQT: 3.125 ms, Mean Pwr: +20 dB</p> <p>Center: 1.9098 GHz, 2 dB/</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 24.74 dBm Peak: 28.20 dBm Crest: 3.46 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.20 dB</td></tr> <tr><td>.1 %</td><td>3.44 dB</td></tr> <tr><td>.01 %</td><td>3.48 dB</td></tr> </table> <p>Date: 9.SEP.2018 11:10:49</p> | 10 % | 2.48 dB | 1 % | 3.20 dB | .1 % | 3.44 dB | .01 % | 3.48 dB |
| 10 % | 0.36 dB | | | | | | | | | | | | | | | | |
| 1 % | 0.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 0.52 dB | | | | | | | | | | | | | | | | |
| .01 % | 0.52 dB | | | | | | | | | | | | | | | | |
| 10 % | 2.48 dB | | | | | | | | | | | | | | | | |
| 1 % | 3.20 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.44 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.48 dB | | | | | | | | | | | | | | | | |



26dB Bandwidth

| Mode | GSM850 : 26dB BW(MHz) | |
|------------|-----------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.312 | 0.313 |
| Middle CH | 0.312 | 0.304 |
| Highest CH | 0.308 | 0.307 |

| Mode | GSM1900 : 26dB BW(MHz) | |
|------------|------------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.300 | 0.293 |
| Middle CH | 0.310 | 0.299 |
| Highest CH | 0.316 | 0.305 |



| GSM850 (GPRS class 8) | GSM850 (EDGE class 8) |
|---|--|
| Lowest Channel | Lowest Channel |
| <p>Ref: 35 dBm, Att: 30 dB, RSW: 3 kHz, VSW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 21.19 dBm, Center: 824.2 MHz, Span: 1 MHz.</p> <p>Date: 31.AUG.2018 10:15:15</p> | <p>Ref: 35 dBm, Att: 30 dB, RSW: 3 kHz, VSW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 17.44 dBm, Center: 824.2 MHz, Span: 1 MHz.</p> <p>Date: 9.SEP.2018 10:45:06</p> |
| Middle Channel | Middle Channel |
| <p>Ref: 35 dBm, Att: 30 dB, RSW: 3 kHz, VSW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 21.22 dBm, Center: 836.4 MHz, Span: 1 MHz.</p> <p>Date: 31.AUG.2018 10:15:50</p> | <p>Ref: 35 dBm, Att: 30 dB, RSW: 3 kHz, VSW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 18.95 dBm, Center: 836.4 MHz, Span: 1 MHz.</p> <p>Date: 9.SEP.2018 10:45:41</p> |
| Highest Channel | Highest Channel |
| <p>Ref: 35 dBm, Att: 30 dB, RSW: 3 kHz, VSW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 21.03 dBm, Center: 848.8 MHz, Span: 1 MHz.</p> <p>Date: 31.AUG.2018 10:16:26</p> | <p>Ref: 35 dBm, Att: 30 dB, RSW: 3 kHz, VSW: 10 kHz, SWT: 115 ms, Marker 1 [T1]: 19.05 dBm, Center: 848.8 MHz, Span: 1 MHz.</p> <p>Date: 9.SEP.2018 10:46:14</p> |



| GSM1900 (GPRS class 8) | GSM1900 (EDGE class 8) |
|---|--|
| <p style="text-align: center;">Lowest Channel</p> <p style="text-align: center;">Date: 31.AUG.2018 10:45:13</p> | <p style="text-align: center;">Lowest Channel</p> <p style="text-align: center;">Date: 9.SEP.2018 10:58:32</p> |
| <p style="text-align: center;">Middle Channel</p> <p style="text-align: center;">Date: 31.AUG.2018 10:45:48</p> | <p style="text-align: center;">Middle Channel</p> <p style="text-align: center;">Date: 9.SEP.2018 10:59:11</p> |
| <p style="text-align: center;">Highest Channel</p> <p style="text-align: center;">Date: 31.AUG.2018 10:46:27</p> | <p style="text-align: center;">Highest Channel</p> <p style="text-align: center;">Date: 9.SEP.2018 10:59:44</p> |



Occupied Bandwidth

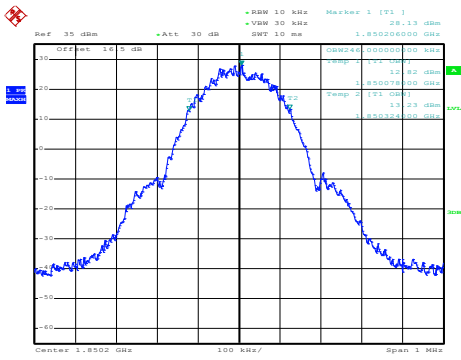
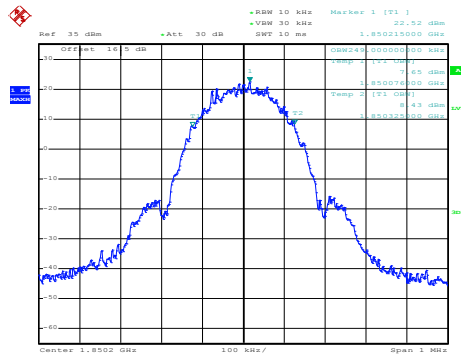
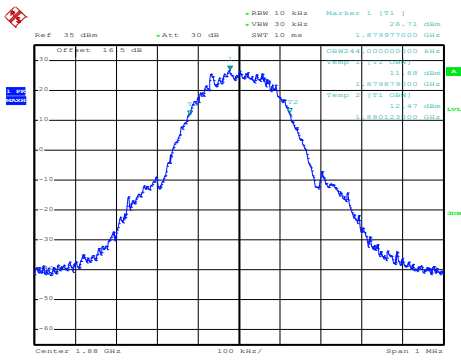
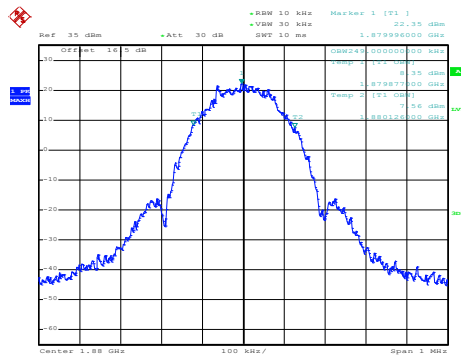
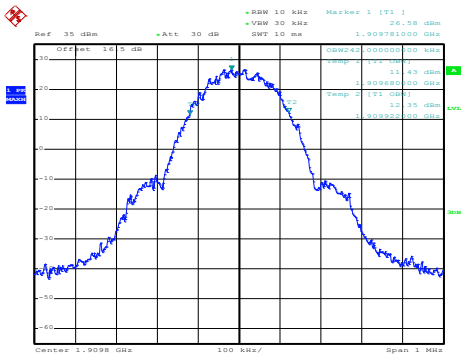
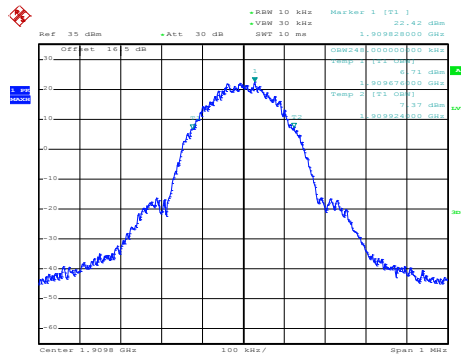
| Mode | GSM850 : 99% OBW(MHz) | |
|------------|-----------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.245 | 0.242 |
| Middle CH | 0.248 | 0.243 |
| Highest CH | 0.241 | 0.248 |

| Mode | GSM1900 : 99% OBW(MHz) | |
|------------|------------------------|--------------|
| Mod. | GPRS class 8 | EDGE class 8 |
| Lowest CH | 0.246 | 0.249 |
| Middle CH | 0.244 | 0.249 |
| Highest CH | 0.242 | 0.248 |



| GSM850 (GPRS class 8) | GSM850 (EDGE class 8) |
|---|--|
| Lowest Channel | Lowest Channel |
| <p>Ref 35 dBm +Att 30 dB +RBW 10 kHz Marker 1 [T1] +VSW 30 kHz +SWT 10 ms 25.80 dBm 824.179000000 MHz</p> <p>OSW243 000000000 kHz LVL 25.80 dBm Temp 1 [T1] 24.87 dBm OSW244 075000000 MHz LVL 24.87 dBm Temp 2 [T2] 24.87 dBm OSW245 124500000 MHz LVL 24.87 dBm</p> <p>Center 824.2 MHz 100 kHz/ Span 1 MHz</p> <p>Date: 31.AUG.2018 10:17:06</p> | <p>Ref 35 dBm +Att 30 dB +RBW 10 kHz Marker 1 [T1] +VSW 30 kHz +SWT 10 ms 23.75 dBm 824.201000000 MHz</p> <p>OSW243 000000000 kHz LVL 23.75 dBm Temp 1 [T1] 23.05 dBm OSW244 075000000 MHz LVL 23.05 dBm Temp 2 [T2] 23.05 dBm OSW245 124500000 MHz LVL 23.05 dBm</p> <p>Center 824.2 MHz 100 kHz/ Span 1 MHz</p> <p>Date: 9.SEP.2018 10:46:56</p> |
| Middle Channel | Middle Channel |
| <p>Ref 35 dBm +Att 30 dB +RBW 10 kHz Marker 1 [T1] +VSW 30 kHz +SWT 10 ms 26.09 dBm 836.417000000 MHz</p> <p>OSW243 000000000 kHz LVL 26.09 dBm Temp 1 [T1] 11.16 dBm OSW244 075000000 MHz LVL 11.16 dBm Temp 2 [T2] 11.16 dBm OSW245 124500000 MHz LVL 11.16 dBm</p> <p>Center 836.4 MHz 100 kHz/ Span 1 MHz</p> <p>Date: 31.AUG.2018 10:17:42</p> | <p>Ref 35 dBm +Att 30 dB +RBW 10 kHz Marker 1 [T1] +VSW 30 kHz +SWT 10 ms 24.88 dBm 836.384000000 MHz</p> <p>OSW243 000000000 kHz LVL 24.88 dBm Temp 1 [T1] 10.48 dBm OSW244 075000000 MHz LVL 10.48 dBm Temp 2 [T2] 10.48 dBm OSW245 124500000 MHz LVL 10.48 dBm</p> <p>Center 836.4 MHz 100 kHz/ Span 1 MHz</p> <p>Date: 9.SEP.2018 10:47:31</p> |
| Highest Channel | Highest Channel |
| <p>Ref 35 dBm +Att 30 dB +RBW 10 kHz Marker 1 [T1] +VSW 30 kHz +SWT 10 ms 26.77 dBm 848.816000000 MHz</p> <p>OSW243 000000000 kHz LVL 26.77 dBm Temp 1 [T1] 14.10 dBm OSW244 075000000 MHz LVL 14.10 dBm Temp 2 [T2] 14.10 dBm OSW245 124500000 MHz LVL 14.10 dBm</p> <p>Center 848.8 MHz 100 kHz/ Span 1 MHz</p> <p>Date: 31.AUG.2018 10:18:17</p> | <p>Ref 35 dBm +Att 30 dB +RBW 10 kHz Marker 1 [T1] +VSW 30 kHz +SWT 10 ms 24.19 dBm 848.796000000 MHz</p> <p>OSW243 000000000 kHz LVL 24.19 dBm Temp 1 [T1] 8.92 dBm OSW244 075000000 MHz LVL 8.92 dBm Temp 2 [T2] 8.92 dBm OSW245 124500000 MHz LVL 8.92 dBm</p> <p>Center 848.8 MHz 100 kHz/ Span 1 MHz</p> <p>Date: 9.SEP.2018 10:48:04</p> |



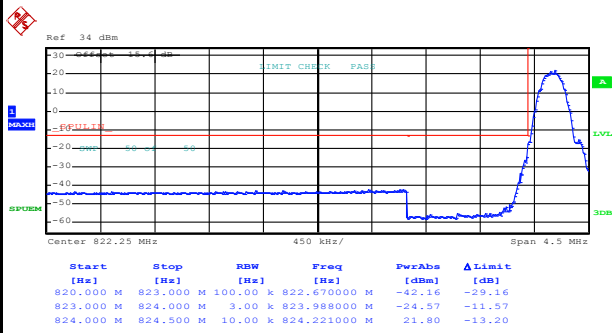
| GSM1900 (GPRS class 8) | GSM1900 (EDGE class 8) |
|---|---|
| Lowest Channel | Lowest Channel |
|  <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz Marker 1 [T1] +VSW 30 kHz 28.13 dBm +SWT 10 ms 1.85020000 GHz</p> <p>OSW24 00000000 kHz 11.20 dBm Temp 1 [T1] 8.43 dBm OSW24 00000000 kHz 11.20 dBm Temp 2 [T2] 8.43 dBm</p> <p>Center 1.8502 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 31.AUG.2018 10:47:11</p> |  <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz Marker 1 [T1] +VSW 30 kHz 22.32 dBm +SWT 10 ms 1.850215000 GHz</p> <p>OSW24 00000000 kHz 11.45 dBm Temp 1 [T1] 8.43 dBm OSW24 00000000 kHz 11.45 dBm Temp 2 [T2] 8.43 dBm</p> <p>Center 1.8502 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 9.SEP.2018 11:00:32</p> |
| Middle Channel | Middle Channel |
|  <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz Marker 1 [T1] +VSW 30 kHz 26.71 dBm +SWT 10 ms 1.879975000 GHz</p> <p>OSW24 00000000 kHz 11.88 dBm Temp 1 [T1] 8.43 dBm OSW24 00000000 kHz 11.88 dBm Temp 2 [T2] 7.36 dBm</p> <p>Center 1.88 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 31.AUG.2018 10:47:48</p> |  <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz Marker 1 [T1] +VSW 30 kHz 22.35 dBm +SWT 10 ms 1.879980000 GHz</p> <p>OSW24 00000000 kHz 11.88 dBm Temp 1 [T1] 8.35 dBm OSW24 00000000 kHz 11.88 dBm Temp 2 [T2] 7.36 dBm</p> <p>Center 1.88 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 9.SEP.2018 11:01:06</p> |
| Highest Channel | Highest Channel |
|  <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz Marker 1 [T1] +VSW 30 kHz 26.18 dBm +SWT 10 ms 1.909781000 GHz</p> <p>OSW24 00000000 kHz 11.40 dBm Temp 1 [T1] 8.43 dBm OSW24 00000000 kHz 11.40 dBm Temp 2 [T2] 8.43 dBm</p> <p>Center 1.9098 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 31.AUG.2018 10:48:21</p> |  <p>Ref 35 dBm +Att 30 dB +RSW 10 kHz Marker 1 [T1] +VSW 30 kHz 22.42 dBm +SWT 10 ms 1.909820000 GHz</p> <p>OSW24 00000000 kHz 11.40 dBm Temp 1 [T1] 8.43 dBm OSW24 00000000 kHz 11.40 dBm Temp 2 [T2] 8.43 dBm</p> <p>Center 1.9098 GHz 100 kHz/ Span 1 MHz</p> <p>Date: 9.SEP.2018 11:01:40</p> |



Conducted Band Edge

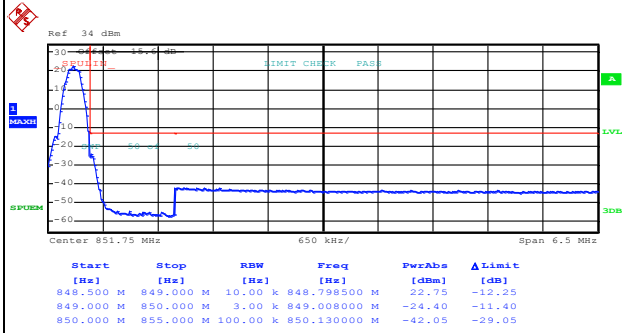
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 31.AUG.2018 10:19:54

Highest Band Edge



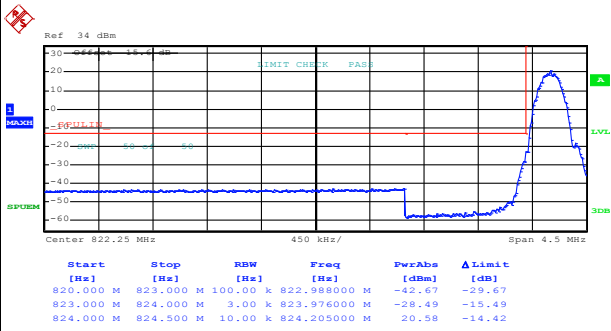
Date: 31.AUG.2018 10:21:28



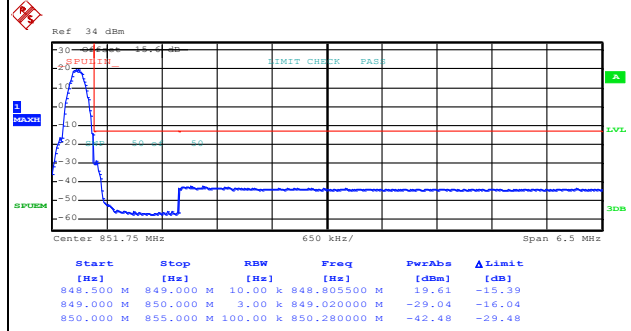
GSM850 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 9.SEP.2018 10:49:44



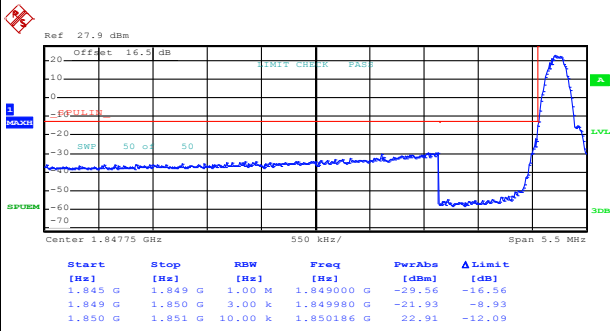
Date: 9.SEP.2018 10:51:18



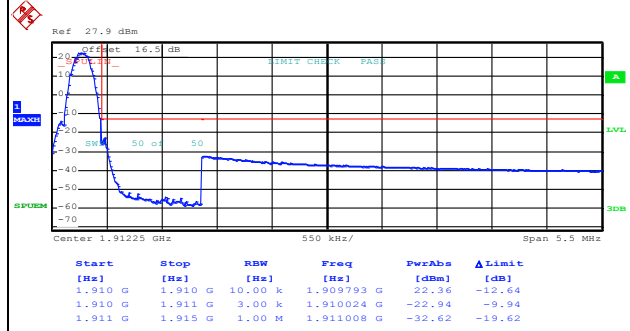
GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



Date: 31.AUG.2018 10:49:57



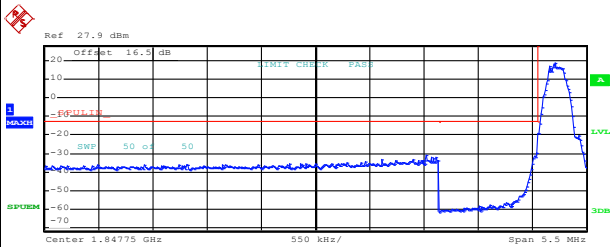
Date: 31.AUG.2018 10:51:32



GSM1900 (EDGE class 8)

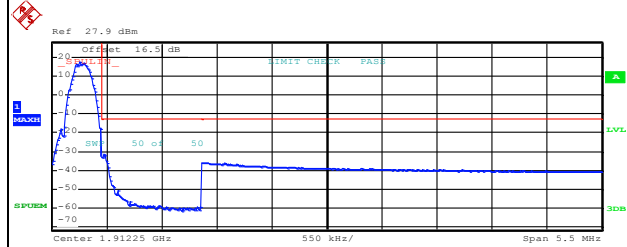
Lowest Band Edge

Highest Band Edge



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | Δ Limit [dB] |
|------------|-----------|----------|------------|--------------|--------------|
| 1.845 G | 1.849 G | 1.00 M | 1.848864 G | -31.02 | -18.02 |
| 1.849 G | 1.850 G | 3.00 k | 1.849988 G | -29.63 | -16.63 |
| 1.850 G | 1.851 G | 10.00 k | 1.850181 G | 18.69 | -16.31 |

Date: 9.SEP.2018 11:03:17

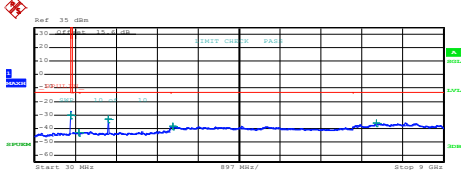
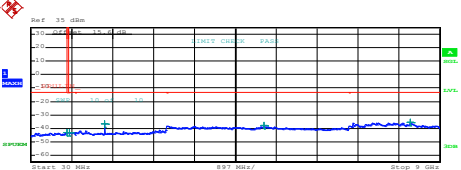
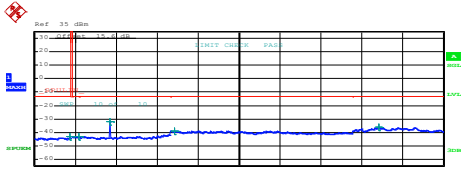
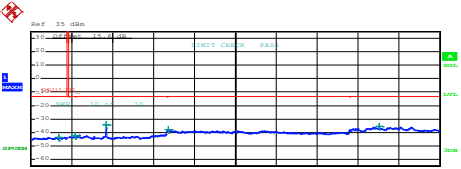
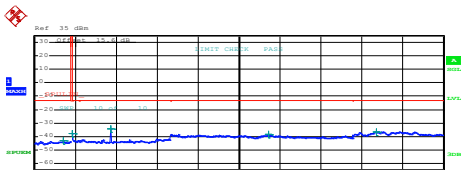
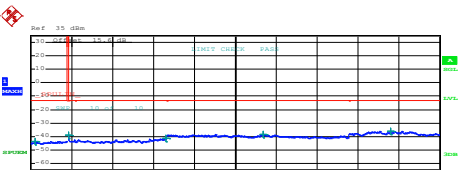


| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | Δ Limit [dB] |
|------------|-----------|----------|------------|--------------|--------------|
| 1.910 G | 1.910 G | 10.00 k | 1.909771 G | 17.96 | -17.04 |
| 1.910 G | 1.911 G | 3.00 k | 1.910012 G | -31.20 | -19.20 |
| 1.911 G | 1.915 G | 1.00 M | 1.911052 G | -35.99 | -22.99 |

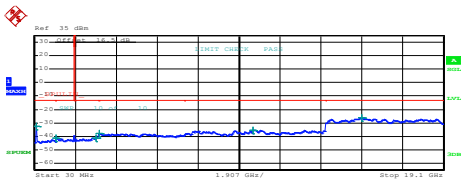
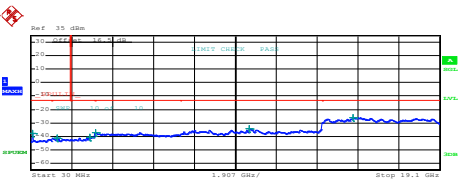
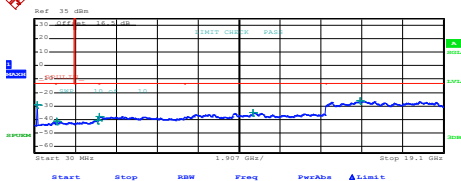
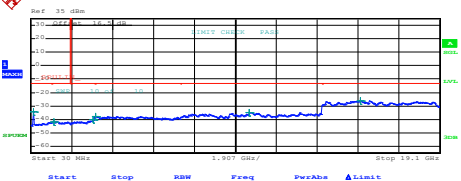
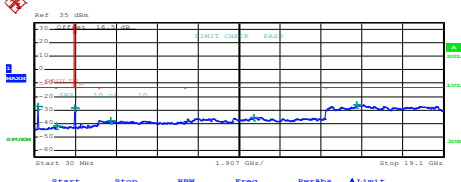
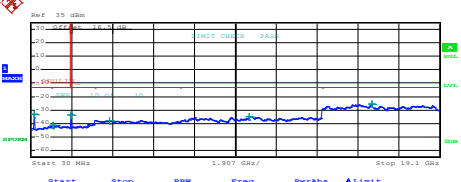
Date: 9.SEP.2018 11:05:24



Conducted Spurious Emission

| GSM850 (GPRS class 8) | GSM850 (EDGE class 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|-----------|--------------|--------------|--------------|-------------|-----------|------------|--------|--------------|--------|--------|------------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|--|------------|-----------|----------|-----------|--------------|-------------|-----------|------------|--------|--------------|--------|--------|------------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 660 654 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.0000 M</td> <td>820.0000 M</td> <td>1.00 M</td> <td>816.802500 M</td> <td>-30.86</td> <td>-17.45</td> </tr> <tr> <td>855.0000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>990.142510 M</td> <td>-43.06</td> <td>-30.06</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.648000 G</td> <td>-32.87</td> <td>-19.87</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.058000 G</td> <td>-38.58</td> <td>-25.58</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.537000 G</td> <td>-36.12</td> <td>-23.12</td> </tr> </tbody> </table> <p data-bbox="207 907 383 918">Date: 31.AUG.2018 10:22:27</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | 30.0000 M | 820.0000 M | 1.00 M | 816.802500 M | -30.86 | -17.45 | 855.0000 M | 1.000 G | 1.00 M | 990.142510 M | -43.06 | -30.06 | 1.000 G | 3.000 G | 1.00 M | 1.648000 G | -32.87 | -19.87 | 3.000 G | 7.000 G | 1.00 M | 3.058000 G | -38.58 | -25.58 | 7.000 G | 9.000 G | 1.00 M | 7.537000 G | -36.12 | -23.12 |  <table border="1" data-bbox="893 660 1308 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.0000 M</td> <td>820.0000 M</td> <td>1.00 M</td> <td>813.817500 M</td> <td>-43.14</td> <td>-30.14</td> </tr> <tr> <td>855.0000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>876.170001 M</td> <td>-42.92</td> <td>-29.92</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.648000 G</td> <td>-36.36</td> <td>-23.36</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>5.134000 G</td> <td>-37.91</td> <td>-24.91</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>8.352000 G</td> <td>-35.69</td> <td>-22.69</td> </tr> </tbody> </table> <p data-bbox="861 907 1037 918">Date: 9.SEP.2018 10:53:29</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | 30.0000 M | 820.0000 M | 1.00 M | 813.817500 M | -43.14 | -30.14 | 855.0000 M | 1.000 G | 1.00 M | 876.170001 M | -42.92 | -29.92 | 1.000 G | 3.000 G | 1.00 M | 1.648000 G | -36.36 | -23.36 | 3.000 G | 7.000 G | 1.00 M | 5.134000 G | -37.91 | -24.91 | 7.000 G | 9.000 G | 1.00 M | 8.352000 G | -35.69 | -22.69 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 820.0000 M | 1.00 M | 816.802500 M | -30.86 | -17.45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.0000 M | 1.000 G | 1.00 M | 990.142510 M | -43.06 | -30.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.648000 G | -32.87 | -19.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 3.058000 G | -38.58 | -25.58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.537000 G | -36.12 | -23.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 820.0000 M | 1.00 M | 813.817500 M | -43.14 | -30.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.0000 M | 1.000 G | 1.00 M | 876.170001 M | -42.92 | -29.92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.648000 G | -36.36 | -23.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 5.134000 G | -37.91 | -24.91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 8.352000 G | -35.69 | -22.69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1176 654 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.0000 M</td> <td>820.0000 M</td> <td>1.00 M</td> <td>804.792500 M</td> <td>-42.99</td> <td>-29.99</td> </tr> <tr> <td>855.0000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>997.063760 M</td> <td>-43.20</td> <td>-30.20</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.672500 G</td> <td>-32.24</td> <td>-19.24</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.105000 G</td> <td>-38.76</td> <td>-25.76</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.574000 G</td> <td>-36.04</td> <td>-23.04</td> </tr> </tbody> </table> <p data-bbox="207 1422 383 1433">Date: 31.AUG.2018 10:23:18</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | 30.0000 M | 820.0000 M | 1.00 M | 804.792500 M | -42.99 | -29.99 | 855.0000 M | 1.000 G | 1.00 M | 997.063760 M | -43.20 | -30.20 | 1.000 G | 3.000 G | 1.00 M | 1.672500 G | -32.24 | -19.24 | 3.000 G | 7.000 G | 1.00 M | 3.105000 G | -38.76 | -25.76 | 7.000 G | 9.000 G | 1.00 M | 7.574000 G | -36.04 | -23.04 |  <table border="1" data-bbox="893 1176 1308 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.0000 M</td> <td>820.0000 M</td> <td>1.00 M</td> <td>638.892500 M</td> <td>-43.59</td> <td>-30.59</td> </tr> <tr> <td>855.0000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>894.707510 M</td> <td>-42.64</td> <td>-29.64</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.672500 G</td> <td>-34.34</td> <td>-21.34</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.048000 G</td> <td>-37.72</td> <td>-24.72</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.675000 G</td> <td>-35.42</td> <td>-22.42</td> </tr> </tbody> </table> <p data-bbox="861 1422 1037 1433">Date: 9.SEP.2018 10:54:21</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | 30.0000 M | 820.0000 M | 1.00 M | 638.892500 M | -43.59 | -30.59 | 855.0000 M | 1.000 G | 1.00 M | 894.707510 M | -42.64 | -29.64 | 1.000 G | 3.000 G | 1.00 M | 1.672500 G | -34.34 | -21.34 | 3.000 G | 7.000 G | 1.00 M | 3.048000 G | -37.72 | -24.72 | 7.000 G | 9.000 G | 1.00 M | 7.675000 G | -35.42 | -22.42 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 820.0000 M | 1.00 M | 804.792500 M | -42.99 | -29.99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.0000 M | 1.000 G | 1.00 M | 997.063760 M | -43.20 | -30.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.672500 G | -32.24 | -19.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 3.105000 G | -38.76 | -25.76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.574000 G | -36.04 | -23.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 820.0000 M | 1.00 M | 638.892500 M | -43.59 | -30.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.0000 M | 1.000 G | 1.00 M | 894.707510 M | -42.64 | -29.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.672500 G | -34.34 | -21.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 3.048000 G | -37.72 | -24.72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.675000 G | -35.42 | -22.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1691 654 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.0000 M</td> <td>820.0000 M</td> <td>1.00 M</td> <td>658.432500 M</td> <td>-43.30</td> <td>-30.30</td> </tr> <tr> <td>855.0000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>850.036250 M</td> <td>-37.95</td> <td>-24.95</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.698000 G</td> <td>-34.03</td> <td>-21.03</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>5.152000 G</td> <td>-38.62</td> <td>-25.62</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.523500 G</td> <td>-36.43</td> <td>-23.43</td> </tr> </tbody> </table> <p data-bbox="207 1937 383 1948">Date: 31.AUG.2018 10:24:10</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | 30.0000 M | 820.0000 M | 1.00 M | 658.432500 M | -43.30 | -30.30 | 855.0000 M | 1.000 G | 1.00 M | 850.036250 M | -37.95 | -24.95 | 1.000 G | 3.000 G | 1.00 M | 1.698000 G | -34.03 | -21.03 | 3.000 G | 7.000 G | 1.00 M | 5.152000 G | -38.62 | -25.62 | 7.000 G | 9.000 G | 1.00 M | 7.523500 G | -36.43 | -23.43 |  <table border="1" data-bbox="893 1691 1308 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.0000 M</td> <td>820.0000 M</td> <td>1.00 M</td> <td>111.112500 M</td> <td>-43.58</td> <td>-30.58</td> </tr> <tr> <td>855.0000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>850.072500 M</td> <td>-39.15</td> <td>-26.15</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.990000 G</td> <td>-41.42</td> <td>-28.42</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>5.117000 G</td> <td>-38.49</td> <td>-25.49</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.922000 G</td> <td>-35.88</td> <td>-22.88</td> </tr> </tbody> </table> <p data-bbox="861 1937 1037 1948">Date: 9.SEP.2018 10:55:30</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | 30.0000 M | 820.0000 M | 1.00 M | 111.112500 M | -43.58 | -30.58 | 855.0000 M | 1.000 G | 1.00 M | 850.072500 M | -39.15 | -26.15 | 1.000 G | 3.000 G | 1.00 M | 2.990000 G | -41.42 | -28.42 | 3.000 G | 7.000 G | 1.00 M | 5.117000 G | -38.49 | -25.49 | 7.000 G | 9.000 G | 1.00 M | 7.922000 G | -35.88 | -22.88 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 820.0000 M | 1.00 M | 658.432500 M | -43.30 | -30.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.0000 M | 1.000 G | 1.00 M | 850.036250 M | -37.95 | -24.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.698000 G | -34.03 | -21.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 5.152000 G | -38.62 | -25.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.523500 G | -36.43 | -23.43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 820.0000 M | 1.00 M | 111.112500 M | -43.58 | -30.58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.0000 M | 1.000 G | 1.00 M | 850.072500 M | -39.15 | -26.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 2.990000 G | -41.42 | -28.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 5.117000 G | -38.49 | -25.49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.922000 G | -35.88 | -22.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| GSM1900 (GPRS class 8) Lowest Channel | GSM1900 (EDGE class 8) Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|--------------|--------------|--------------|-------------|-----------|----------|---------|--------------|--------|--------|----------|---------|---------|------------|--------|--------|---------|----------|---------|------------|--------|--------|----------|----------|---------|------------|--------|--------|----------|-----------|---------|-------------|--------|--------|-----------|-----------|---------|-------------|--------|--------|---|------------|-----------|----------|-----------|--------------|-------------|-----------|----------|---------|--------------|--------|--------|----------|---------|---------|------------|--------|--------|---------|----------|---------|------------|--------|--------|----------|----------|---------|------------|--------|--------|----------|-----------|---------|-------------|--------|--------|-----------|-----------|---------|-------------|--------|--------|
|  <table border="1" data-bbox="247 577 654 667"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000 M</td><td>1.0000 G</td><td>1.000 M</td><td>111.945000 M</td><td>-32.75</td><td>-19.75</td></tr> <tr><td>1.0000 G</td><td>1.845 G</td><td>1.000 M</td><td>1.032110 G</td><td>-41.31</td><td>-28.31</td></tr> <tr><td>1.845 G</td><td>3.0000 G</td><td>1.000 M</td><td>2.093941 G</td><td>-42.10</td><td>-28.10</td></tr> <tr><td>3.0000 G</td><td>7.0000 G</td><td>1.000 M</td><td>3.037500 G</td><td>-37.96</td><td>-24.96</td></tr> <tr><td>7.0000 G</td><td>13.6000 G</td><td>1.000 M</td><td>10.216075 G</td><td>-35.22</td><td>-22.22</td></tr> <tr><td>13.6000 G</td><td>19.1000 G</td><td>1.000 M</td><td>15.300388 G</td><td>-26.40</td><td>-13.40</td></tr> </tbody> </table> <p data-bbox="207 824 391 840">Date: 31.AUG.2018 10:52:31</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 M | 1.0000 G | 1.000 M | 111.945000 M | -32.75 | -19.75 | 1.0000 G | 1.845 G | 1.000 M | 1.032110 G | -41.31 | -28.31 | 1.845 G | 3.0000 G | 1.000 M | 2.093941 G | -42.10 | -28.10 | 3.0000 G | 7.0000 G | 1.000 M | 3.037500 G | -37.96 | -24.96 | 7.0000 G | 13.6000 G | 1.000 M | 10.216075 G | -35.22 | -22.22 | 13.6000 G | 19.1000 G | 1.000 M | 15.300388 G | -26.40 | -13.40 |  <table border="1" data-bbox="901 577 1308 667"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000 M</td><td>1.0000 G</td><td>1.000 M</td><td>111.945000 M</td><td>-37.63</td><td>-24.63</td></tr> <tr><td>1.0000 G</td><td>1.845 G</td><td>1.000 M</td><td>1.240825 G</td><td>-41.34</td><td>-28.34</td></tr> <tr><td>1.845 G</td><td>3.0000 G</td><td>1.000 M</td><td>2.775334 G</td><td>-40.52</td><td>-27.52</td></tr> <tr><td>3.0000 G</td><td>7.0000 G</td><td>1.000 M</td><td>3.060000 G</td><td>-37.21</td><td>-24.21</td></tr> <tr><td>7.0000 G</td><td>13.6000 G</td><td>1.000 M</td><td>10.227400 G</td><td>-34.33</td><td>-21.33</td></tr> <tr><td>13.6000 G</td><td>19.1000 G</td><td>1.000 M</td><td>15.047388 G</td><td>-26.19</td><td>-13.19</td></tr> </tbody> </table> <p data-bbox="861 824 1045 840">Date: 9.SEP.2018 11:06:35</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 M | 1.0000 G | 1.000 M | 111.945000 M | -37.63 | -24.63 | 1.0000 G | 1.845 G | 1.000 M | 1.240825 G | -41.34 | -28.34 | 1.845 G | 3.0000 G | 1.000 M | 2.775334 G | -40.52 | -27.52 | 3.0000 G | 7.0000 G | 1.000 M | 3.060000 G | -37.21 | -24.21 | 7.0000 G | 13.6000 G | 1.000 M | 10.227400 G | -34.33 | -21.33 | 13.6000 G | 19.1000 G | 1.000 M | 15.047388 G | -26.19 | -13.19 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 1.0000 G | 1.000 M | 111.945000 M | -32.75 | -19.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 G | 1.845 G | 1.000 M | 1.032110 G | -41.31 | -28.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.845 G | 3.0000 G | 1.000 M | 2.093941 G | -42.10 | -28.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 G | 7.0000 G | 1.000 M | 3.037500 G | -37.96 | -24.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 G | 13.6000 G | 1.000 M | 10.216075 G | -35.22 | -22.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 G | 19.1000 G | 1.000 M | 15.300388 G | -26.40 | -13.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 1.0000 G | 1.000 M | 111.945000 M | -37.63 | -24.63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 G | 1.845 G | 1.000 M | 1.240825 G | -41.34 | -28.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.845 G | 3.0000 G | 1.000 M | 2.775334 G | -40.52 | -27.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 G | 7.0000 G | 1.000 M | 3.060000 G | -37.21 | -24.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 G | 13.6000 G | 1.000 M | 10.227400 G | -34.33 | -21.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 G | 19.1000 G | 1.000 M | 15.047388 G | -26.19 | -13.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="247 1115 654 1205"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000 M</td><td>1.0000 G</td><td>1.000 M</td><td>141.792500 M</td><td>-28.93</td><td>-15.93</td></tr> <tr><td>1.0000 G</td><td>1.845 G</td><td>1.000 M</td><td>1.077317 G</td><td>-41.22</td><td>-28.22</td></tr> <tr><td>1.845 G</td><td>3.0000 G</td><td>1.000 M</td><td>2.974774 G</td><td>-40.81</td><td>-27.81</td></tr> <tr><td>3.0000 G</td><td>7.0000 G</td><td>1.000 M</td><td>3.033000 G</td><td>-37.98</td><td>-24.98</td></tr> <tr><td>7.0000 G</td><td>13.6000 G</td><td>1.000 M</td><td>10.207600 G</td><td>-35.13</td><td>-22.13</td></tr> <tr><td>13.6000 G</td><td>19.1000 G</td><td>1.000 M</td><td>15.194313 G</td><td>-26.38</td><td>-13.38</td></tr> </tbody> </table> <p data-bbox="207 1344 391 1359">Date: 31.AUG.2018 10:53:22</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 M | 1.0000 G | 1.000 M | 141.792500 M | -28.93 | -15.93 | 1.0000 G | 1.845 G | 1.000 M | 1.077317 G | -41.22 | -28.22 | 1.845 G | 3.0000 G | 1.000 M | 2.974774 G | -40.81 | -27.81 | 3.0000 G | 7.0000 G | 1.000 M | 3.033000 G | -37.98 | -24.98 | 7.0000 G | 13.6000 G | 1.000 M | 10.207600 G | -35.13 | -22.13 | 13.6000 G | 19.1000 G | 1.000 M | 15.194313 G | -26.38 | -13.38 |  <table border="1" data-bbox="901 1115 1308 1205"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000 M</td><td>1.0000 G</td><td>1.000 M</td><td>141.792500 M</td><td>-34.11</td><td>-21.11</td></tr> <tr><td>1.0000 G</td><td>1.845 G</td><td>1.000 M</td><td>1.079303 G</td><td>-41.73</td><td>-28.73</td></tr> <tr><td>1.845 G</td><td>3.0000 G</td><td>1.000 M</td><td>2.911844 G</td><td>-40.14</td><td>-27.14</td></tr> <tr><td>3.0000 G</td><td>7.0000 G</td><td>1.000 M</td><td>3.043000 G</td><td>-37.57</td><td>-24.57</td></tr> <tr><td>7.0000 G</td><td>13.6000 G</td><td>1.000 M</td><td>10.221400 G</td><td>-34.88</td><td>-21.88</td></tr> <tr><td>13.6000 G</td><td>19.1000 G</td><td>1.000 M</td><td>15.382687 G</td><td>-26.39</td><td>-13.39</td></tr> </tbody> </table> <p data-bbox="861 1344 1045 1359">Date: 9.SEP.2018 11:07:27</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 M | 1.0000 G | 1.000 M | 141.792500 M | -34.11 | -21.11 | 1.0000 G | 1.845 G | 1.000 M | 1.079303 G | -41.73 | -28.73 | 1.845 G | 3.0000 G | 1.000 M | 2.911844 G | -40.14 | -27.14 | 3.0000 G | 7.0000 G | 1.000 M | 3.043000 G | -37.57 | -24.57 | 7.0000 G | 13.6000 G | 1.000 M | 10.221400 G | -34.88 | -21.88 | 13.6000 G | 19.1000 G | 1.000 M | 15.382687 G | -26.39 | -13.39 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 1.0000 G | 1.000 M | 141.792500 M | -28.93 | -15.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 G | 1.845 G | 1.000 M | 1.077317 G | -41.22 | -28.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.845 G | 3.0000 G | 1.000 M | 2.974774 G | -40.81 | -27.81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 G | 7.0000 G | 1.000 M | 3.033000 G | -37.98 | -24.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 G | 13.6000 G | 1.000 M | 10.207600 G | -35.13 | -22.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 G | 19.1000 G | 1.000 M | 15.194313 G | -26.38 | -13.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 1.0000 G | 1.000 M | 141.792500 M | -34.11 | -21.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 G | 1.845 G | 1.000 M | 1.079303 G | -41.73 | -28.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.845 G | 3.0000 G | 1.000 M | 2.911844 G | -40.14 | -27.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 G | 7.0000 G | 1.000 M | 3.043000 G | -37.57 | -24.57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 G | 13.6000 G | 1.000 M | 10.221400 G | -34.88 | -21.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 G | 19.1000 G | 1.000 M | 15.382687 G | -26.39 | -13.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="247 1630 654 1720"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000 M</td><td>1.0000 G</td><td>1.000 M</td><td>171.620000 M</td><td>-27.52</td><td>-14.52</td></tr> <tr><td>1.0000 G</td><td>1.845 G</td><td>1.000 M</td><td>1.078162 G</td><td>-41.83</td><td>-28.83</td></tr> <tr><td>1.845 G</td><td>3.0000 G</td><td>1.000 M</td><td>1.932071 G</td><td>-38.56</td><td>-25.56</td></tr> <tr><td>3.0000 G</td><td>7.0000 G</td><td>1.000 M</td><td>3.594000 G</td><td>-37.87</td><td>-24.87</td></tr> <tr><td>7.0000 G</td><td>13.6000 G</td><td>1.000 M</td><td>10.252975 G</td><td>-35.30</td><td>-22.30</td></tr> <tr><td>13.6000 G</td><td>19.1000 G</td><td>1.000 M</td><td>15.056225 G</td><td>-26.24</td><td>-13.24</td></tr> </tbody> </table> <p data-bbox="207 1863 391 1879">Date: 31.AUG.2018 10:54:45</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 M | 1.0000 G | 1.000 M | 171.620000 M | -27.52 | -14.52 | 1.0000 G | 1.845 G | 1.000 M | 1.078162 G | -41.83 | -28.83 | 1.845 G | 3.0000 G | 1.000 M | 1.932071 G | -38.56 | -25.56 | 3.0000 G | 7.0000 G | 1.000 M | 3.594000 G | -37.87 | -24.87 | 7.0000 G | 13.6000 G | 1.000 M | 10.252975 G | -35.30 | -22.30 | 13.6000 G | 19.1000 G | 1.000 M | 15.056225 G | -26.24 | -13.24 |  <table border="1" data-bbox="901 1630 1308 1720"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr><td>30.0000 M</td><td>1.0000 G</td><td>1.000 M</td><td>171.620000 M</td><td>-32.87</td><td>-19.87</td></tr> <tr><td>1.0000 G</td><td>1.845 G</td><td>1.000 M</td><td>1.062741 G</td><td>-41.36</td><td>-28.36</td></tr> <tr><td>1.845 G</td><td>3.0000 G</td><td>1.000 M</td><td>1.915542 G</td><td>-39.49</td><td>-26.49</td></tr> <tr><td>3.0000 G</td><td>7.0000 G</td><td>1.000 M</td><td>3.674000 G</td><td>-37.69</td><td>-24.69</td></tr> <tr><td>7.0000 G</td><td>13.6000 G</td><td>1.000 M</td><td>10.210900 G</td><td>-34.64</td><td>-21.64</td></tr> <tr><td>13.6000 G</td><td>19.1000 G</td><td>1.000 M</td><td>15.323750 G</td><td>-25.82</td><td>-12.82</td></tr> </tbody> </table> <p data-bbox="861 1863 1045 1879">Date: 9.SEP.2018 11:08:18</p> | Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | 30.0000 M | 1.0000 G | 1.000 M | 171.620000 M | -32.87 | -19.87 | 1.0000 G | 1.845 G | 1.000 M | 1.062741 G | -41.36 | -28.36 | 1.845 G | 3.0000 G | 1.000 M | 1.915542 G | -39.49 | -26.49 | 3.0000 G | 7.0000 G | 1.000 M | 3.674000 G | -37.69 | -24.69 | 7.0000 G | 13.6000 G | 1.000 M | 10.210900 G | -34.64 | -21.64 | 13.6000 G | 19.1000 G | 1.000 M | 15.323750 G | -25.82 | -12.82 |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 1.0000 G | 1.000 M | 171.620000 M | -27.52 | -14.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 G | 1.845 G | 1.000 M | 1.078162 G | -41.83 | -28.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.845 G | 3.0000 G | 1.000 M | 1.932071 G | -38.56 | -25.56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 G | 7.0000 G | 1.000 M | 3.594000 G | -37.87 | -24.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 G | 13.6000 G | 1.000 M | 10.252975 G | -35.30 | -22.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 G | 19.1000 G | 1.000 M | 15.056225 G | -26.24 | -13.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAve [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.0000 M | 1.0000 G | 1.000 M | 171.620000 M | -32.87 | -19.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.0000 G | 1.845 G | 1.000 M | 1.062741 G | -41.36 | -28.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.845 G | 3.0000 G | 1.000 M | 1.915542 G | -39.49 | -26.49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0000 G | 7.0000 G | 1.000 M | 3.674000 G | -37.69 | -24.69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0000 G | 13.6000 G | 1.000 M | 10.210900 G | -34.64 | -21.64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.6000 G | 19.1000 G | 1.000 M | 15.323750 G | -25.82 | -12.82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Frequency Stability

| Test Conditions | Middle Channel | GSM850 (GPRS class 8) | GSM850 (EDGE class 8) | Limit |
|------------------|-------------------|--------------------------|--------------------------|--------|
| | | | | 2.5ppm |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0012 | 0.0036 | PASS |
| 40 | Normal Voltage | 0.0012 | 0.0024 | |
| 30 | Normal Voltage | 0.0000 | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0024 | 0.0000 | |
| 0 | Normal Voltage | 0.0024 | 0.0024 | |
| -10 | Normal Voltage | 0.0036 | 0.0024 | |
| -20 | Normal Voltage | 0.0036 | 0.0036 | |
| -30 | Normal Voltage | 0.0036 | 0.0012 | |
| 20 | Maximum Voltage | 0.0060 | 0.0024 | |
| 20 | Normal Voltage | 0.0000 | 0.0000 | |
| 20 | Battery End Point | 0.0024 | 0.0024 | |



| Test Conditions | Middle Channel | GSM1900 | GSM1900 | Limit |
|------------------|-------------------|-----------------|----------------|---------|
| | | (GPRS class 8) | (EDGE class 8) | Note 2. |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | | Result |
| 50 | Normal Voltage | 0.0011 | 0.0064 | PASS |
| 40 | Normal Voltage | 0.0011 | 0.0043 | |
| 30 | Normal Voltage | 0.0005 | 0.0021 | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0.0000 | |
| 10 | Normal Voltage | 0.0000 | 0.0027 | |
| 0 | Normal Voltage | 0.0000 | 0.0048 | |
| -10 | Normal Voltage | 0.0005 | 0.0048 | |
| -20 | Normal Voltage | 0.0005 | 0.0064 | |
| -30 | Normal Voltage | 0.0005 | 0.0064 | |
| 20 | Maximum Voltage | 0.0011 | 0.0005 | |
| 20 | Normal Voltage | 0.0000 | 0.0000 | |
| 20 | Battery End Point | 0.0011 | 0.0005 | |

Note:

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block.

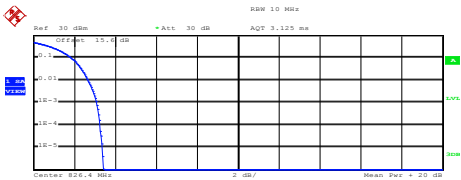
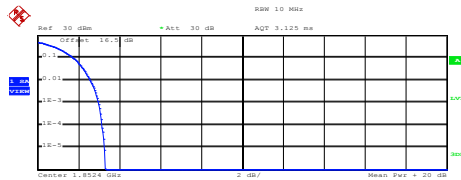
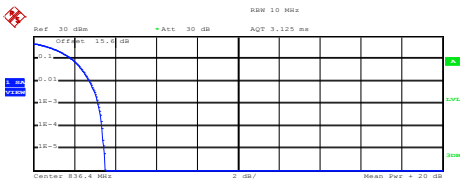
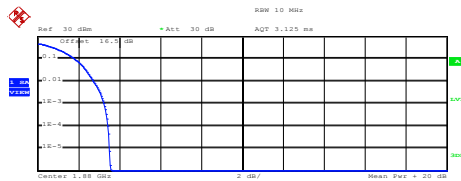
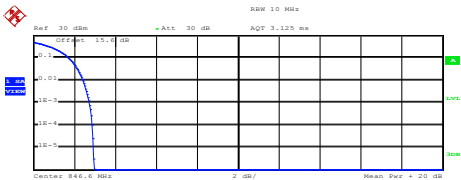



A3. WCDMA

Peak-to-Average Ratio

| Mode | WCDMA Band V | WCDMA Band II | Limit: 13dB |
|------------|--------------|---------------|-------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps | Result |
| Lowest CH | 3.08 | 3.00 | PASS |
| Middle CH | 3.16 | 3.24 | |
| Highest CH | 2.76 | 2.36 | |



| WCDMA Band V (RMC 12.2Kbps) | WCDMA Band II (RMC 12.2Kbps) | | | | | | | | | | | | | | | | |
|--|------------------------------|---------|-----|---------|------|---------|-------|---------|---|------|---------|-----|---------|------|---------|-------|---------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | |
|  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.61 dBm Peak 26.02 dBm Crest 3.41 dB</p> <table border="1"> <tr><td>10 %</td><td>1.84 dB</td></tr> <tr><td>1 %</td><td>2.68 dB</td></tr> <tr><td>.1 %</td><td>3.08 dB</td></tr> <tr><td>.01 %</td><td>3.28 dB</td></tr> </table> <p>Date: 31.AUG.2018 09:53:51</p> | 10 % | 1.84 dB | 1 % | 2.68 dB | .1 % | 3.08 dB | .01 % | 3.28 dB |  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.66 dBm Peak 25.95 dBm Crest 3.29 dB</p> <table border="1"> <tr><td>10 %</td><td>1.76 dB</td></tr> <tr><td>1 %</td><td>2.56 dB</td></tr> <tr><td>.1 %</td><td>3.00 dB</td></tr> <tr><td>.01 %</td><td>3.16 dB</td></tr> </table> <p>Date: 31.AUG.2018 10:09:00</p> | 10 % | 1.76 dB | 1 % | 2.56 dB | .1 % | 3.00 dB | .01 % | 3.16 dB |
| 10 % | 1.84 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.68 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.08 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.28 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.76 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.56 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.00 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.16 dB | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | |
|  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.50 dBm Peak 26.02 dBm Crest 3.52 dB</p> <table border="1"> <tr><td>10 %</td><td>1.88 dB</td></tr> <tr><td>1 %</td><td>2.76 dB</td></tr> <tr><td>.1 %</td><td>3.16 dB</td></tr> <tr><td>.01 %</td><td>3.36 dB</td></tr> </table> <p>Date: 31.AUG.2018 09:54:08</p> | 10 % | 1.88 dB | 1 % | 2.76 dB | .1 % | 3.16 dB | .01 % | 3.36 dB |  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.45 dBm Peak 26.02 dBm Crest 3.57 dB</p> <table border="1"> <tr><td>10 %</td><td>1.80 dB</td></tr> <tr><td>1 %</td><td>2.72 dB</td></tr> <tr><td>.1 %</td><td>3.24 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> <p>Date: 31.AUG.2018 10:09:17</p> | 10 % | 1.80 dB | 1 % | 2.72 dB | .1 % | 3.24 dB | .01 % | 3.44 dB |
| 10 % | 1.88 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.76 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.16 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.36 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.80 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.72 dB | | | | | | | | | | | | | | | | |
| .1 % | 3.24 dB | | | | | | | | | | | | | | | | |
| .01 % | 3.44 dB | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | |
|  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.78 dBm Peak 25.74 dBm Crest 2.96 dB</p> <table border="1"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.44 dB</td></tr> <tr><td>.1 %</td><td>2.76 dB</td></tr> <tr><td>.01 %</td><td>2.88 dB</td></tr> </table> <p>Date: 31.AUG.2018 09:54:23</p> | 10 % | 1.72 dB | 1 % | 2.44 dB | .1 % | 2.76 dB | .01 % | 2.88 dB |  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.64 dBm Peak 26.16 dBm Crest 2.53 dB</p> <table border="1"> <tr><td>10 %</td><td>1.56 dB</td></tr> <tr><td>1 %</td><td>2.12 dB</td></tr> <tr><td>.1 %</td><td>2.36 dB</td></tr> <tr><td>.01 %</td><td>2.48 dB</td></tr> </table> <p>Date: 31.AUG.2018 10:09:34</p> | 10 % | 1.56 dB | 1 % | 2.12 dB | .1 % | 2.36 dB | .01 % | 2.48 dB |
| 10 % | 1.72 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.44 dB | | | | | | | | | | | | | | | | |
| .1 % | 2.76 dB | | | | | | | | | | | | | | | | |
| .01 % | 2.88 dB | | | | | | | | | | | | | | | | |
| 10 % | 1.56 dB | | | | | | | | | | | | | | | | |
| 1 % | 2.12 dB | | | | | | | | | | | | | | | | |
| .1 % | 2.36 dB | | | | | | | | | | | | | | | | |
| .01 % | 2.48 dB | | | | | | | | | | | | | | | | |



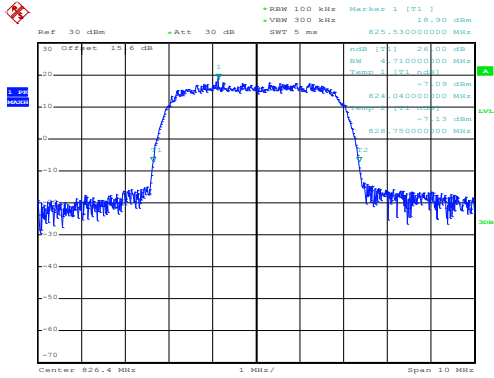
26dB Bandwidth

| Mode | WCDMA Band V 26dB BW(MHz) | WCDMA Band II 26dB BW(MHz) |
|------------|------------------------------|-------------------------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps |
| Lowest CH | 4.71 | 4.74 |
| Middle CH | 4.72 | 4.72 |
| Highest CH | 4.75 | 4.76 |



WCDMA Band V (RMC 12.2Kbps)

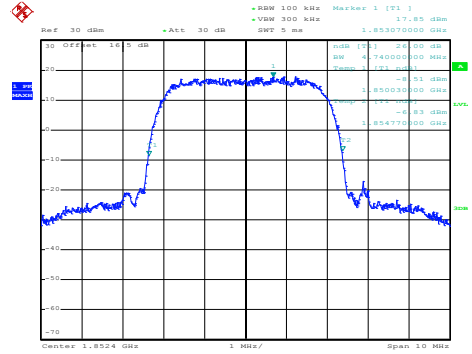
Lowest Channel



Date: 31.AUG.2018 09:41:40

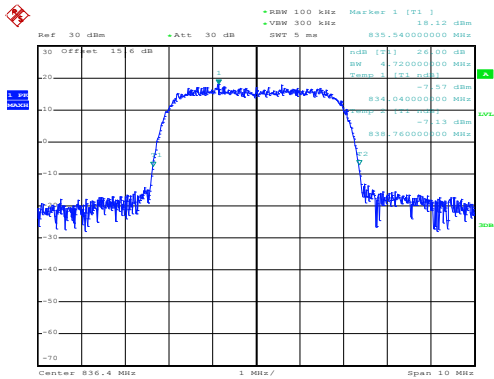
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



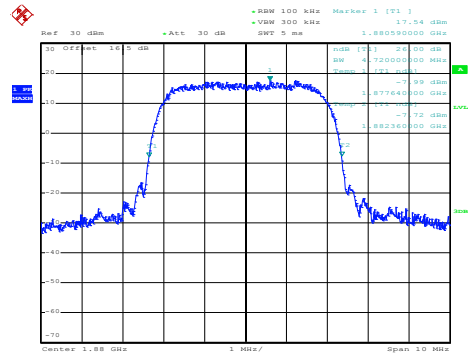
Date: 31.AUG.2018 09:56:33

Middle Channel



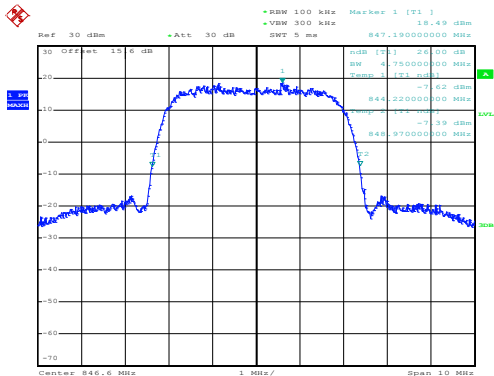
Date: 31.AUG.2018 09:42:16

Middle Channel



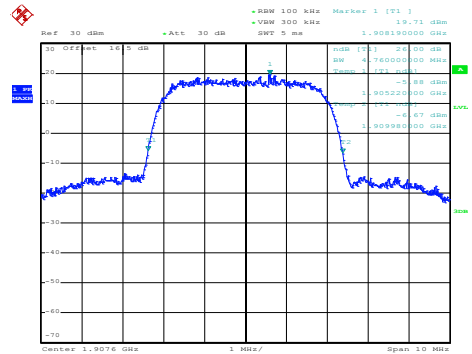
Date: 31.AUG.2018 09:57:10

Highest Channel



Date: 31.AUG.2018 09:42:54

Highest Channel



Date: 31.AUG.2018 09:57:48



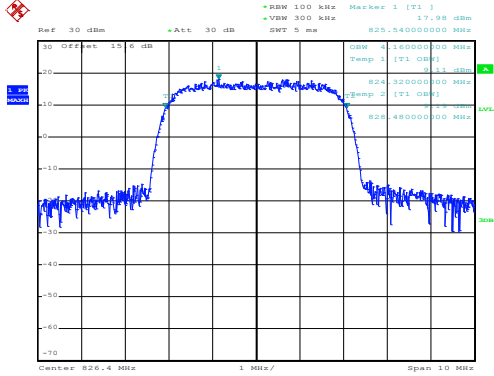
Occupied Bandwidth

| Mode | WCDMA Band V 99% OBW(MHz) | WCDMA Band II 99% OBW(MHz) |
|------------|------------------------------|-------------------------------|
| Mod. | RMC 12.2Kbps | RMC 12.2Kbps |
| Lowest CH | 4.16 | 4.14 |
| Middle CH | 4.14 | 4.14 |
| Highest CH | 4.14 | 4.17 |



WCDMA Band V (RMC 12.2Kbps)

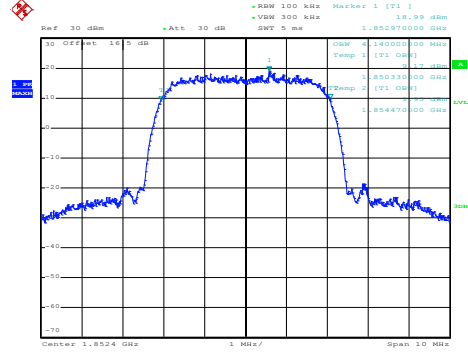
Lowest Channel



Date: 31.AUG.2018 09:43:41

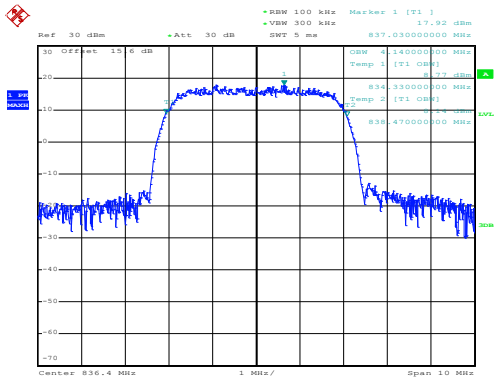
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



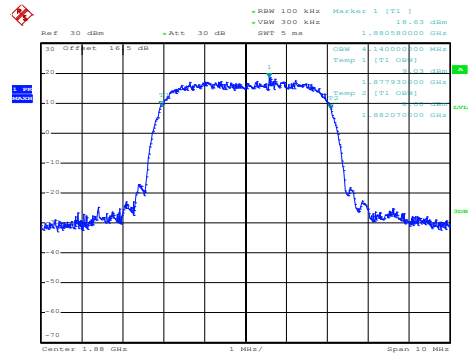
Date: 31.AUG.2018 09:58:45

Middle Channel



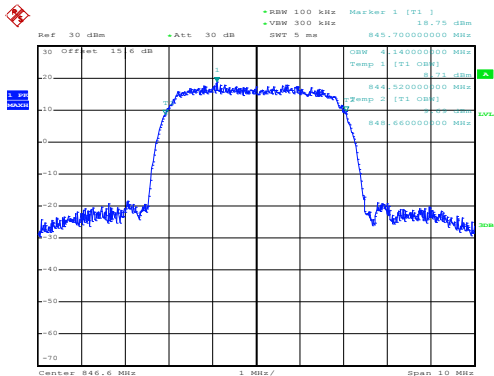
Date: 31.AUG.2018 09:44:17

Middle Channel



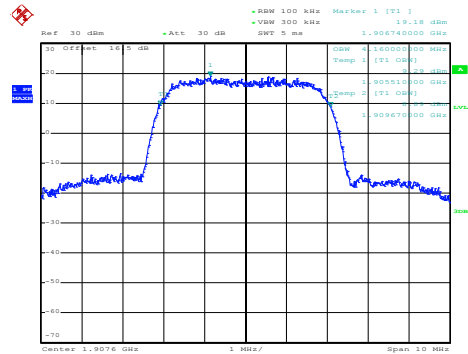
Date: 31.AUG.2018 09:59:20

Highest Channel



Date: 31.AUG.2018 09:44:54

Highest Channel



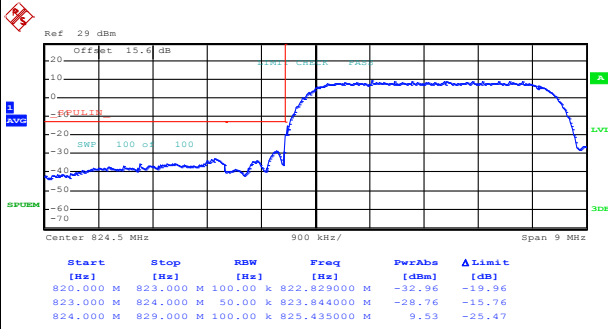
Date: 31.AUG.2018 09:59:54



Conducted Band Edge

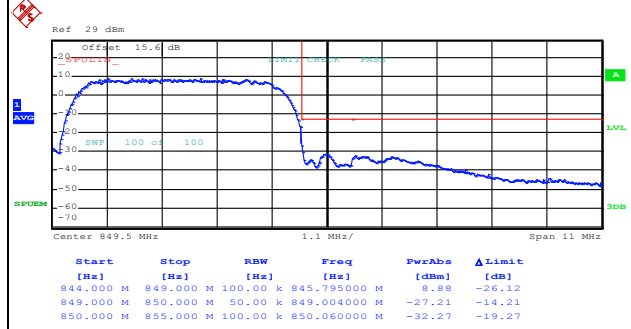
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 31.AUG.2018 09:47:48

Highest Band Edge



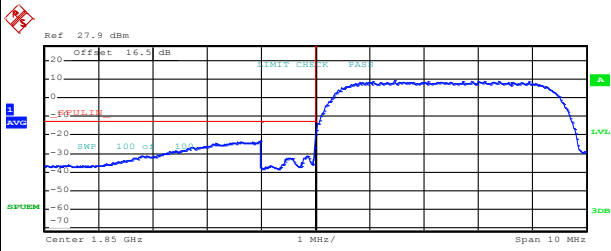
Date: 31.AUG.2018 09:50:37



WCDMA Band II (RMC 12.2Kbps)

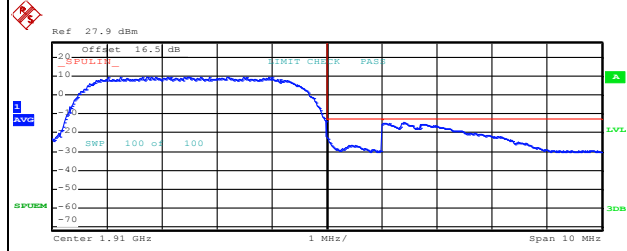
Lowest Band Edge

Highest Band Edge



| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|------------|-----------|----------|------------|--------------|-------------|
| 1.845 G | 1.849 G | 1.00 M | 1.849000 G | -23.25 | -10.25 |
| 1.849 G | 1.850 G | 50.00 k | 1.849996 G | -26.72 | -13.72 |
| 1.850 G | 1.855 G | 100.00 k | 1.851450 G | 9.19 | -25.81 |

Date: 31.AUG.2018 10:03:01

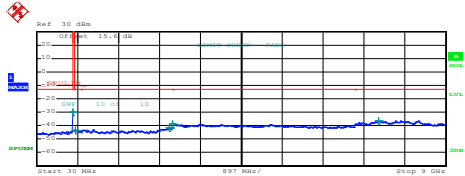
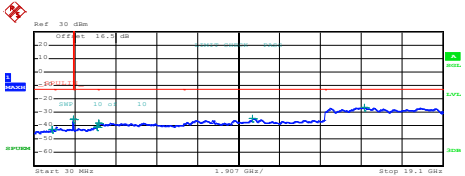
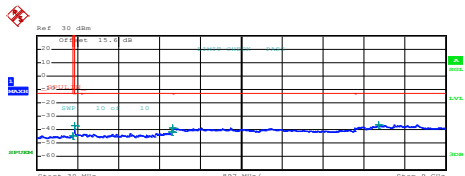
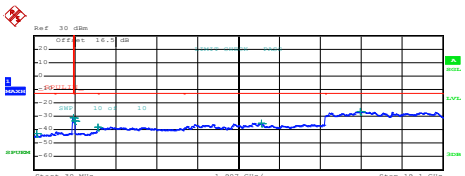
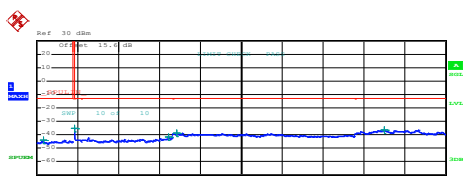
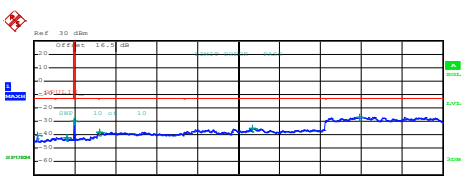


| Start [Hz] | Stop [Hz] | RBW [Hz] | Freq [Hz] | PwrAbs [dBm] | ΔLimit [dB] |
|------------|-----------|----------|------------|--------------|-------------|
| 1.905 G | 1.910 G | 100.00 k | 1.907495 G | 9.76 | -25.24 |
| 1.910 G | 1.911 G | 50.00 k | 1.910012 G | -22.02 | -9.02 |
| 1.911 G | 1.915 G | 1.00 M | 1.911392 G | -14.69 | -1.69 |

Date: 31.AUG.2018 10:05:51



Conducted Spurious Emission

| WCDMA Band V (RMC 12.2Kbps) | WCDMA Band II (RMC 12.2Kbps) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------------|-----------|--------------|--------------|--------------|-------------|----------|-----------|--------|--------------|--------|--------|-----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|--|------------|-----------|---------|-----------|--------------|-------------|----------|---------|--------|--------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|---------|--------|------------|--------|--------|---------|----------|--------|-------------|--------|--------|----------|----------|--------|-------------|--------|--------|
| Lowest Channel | Lowest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 660 758 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>816.437500 M</td> <td>-30.16</td> <td>-17.16</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>880.411252 M</td> <td>-43.62</td> <td>-30.62</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.933500 G</td> <td>-42.75</td> <td>-28.75</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.014000 G</td> <td>-38.78</td> <td>-25.78</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.523000 G</td> <td>-36.39</td> <td>-23.39</td> </tr> </tbody> </table> <p>Date: 31.AUG.2018 09:51:37</p> | Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 816.437500 M | -30.16 | -17.16 | 855.000 M | 1.000 G | 1.00 M | 880.411252 M | -43.62 | -30.62 | 1.000 G | 3.000 G | 1.00 M | 2.933500 G | -42.75 | -28.75 | 3.000 G | 7.000 G | 1.00 M | 3.014000 G | -38.78 | -25.78 | 7.000 G | 9.000 G | 1.00 M | 7.523000 G | -36.39 | -23.39 |  <table border="1" data-bbox="892 660 1410 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>863.230000 M</td> <td>-43.09</td> <td>-30.09</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.843944 G</td> <td>-35.00</td> <td>-22.00</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>2.971559 G</td> <td>-40.93</td> <td>-27.93</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>3.047000 G</td> <td>-38.12</td> <td>-25.12</td> </tr> <tr> <td>9.000 G</td> <td>13.000 G</td> <td>1.00 M</td> <td>10.212550 G</td> <td>-34.52</td> <td>-21.52</td> </tr> <tr> <td>13.000 G</td> <td>19.100 G</td> <td>1.00 M</td> <td>15.448688 G</td> <td>-26.69</td> <td>-13.69</td> </tr> </tbody> </table> <p>Date: 31.AUG.2018 10:06:51</p> | Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 863.230000 M | -43.09 | -30.09 | 1.000 G | 3.000 G | 1.00 M | 1.843944 G | -35.00 | -22.00 | 3.000 G | 7.000 G | 1.00 M | 2.971559 G | -40.93 | -27.93 | 7.000 G | 9.000 G | 1.00 M | 3.047000 G | -38.12 | -25.12 | 9.000 G | 13.000 G | 1.00 M | 10.212550 G | -34.52 | -21.52 | 13.000 G | 19.100 G | 1.00 M | 15.448688 G | -26.69 | -13.69 |
| Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 M | 820.000 M | 1.00 M | 816.437500 M | -30.16 | -17.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.000 M | 1.000 G | 1.00 M | 880.411252 M | -43.62 | -30.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 2.933500 G | -42.75 | -28.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 3.014000 G | -38.78 | -25.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.523000 G | -36.39 | -23.39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 M | 1.000 G | 1.00 M | 863.230000 M | -43.09 | -30.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.843944 G | -35.00 | -22.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 2.971559 G | -40.93 | -27.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 3.047000 G | -38.12 | -25.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.000 G | 13.000 G | 1.00 M | 10.212550 G | -34.52 | -21.52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.000 G | 19.100 G | 1.00 M | 15.448688 G | -26.69 | -13.69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Middle Channel | Middle Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1176 758 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>811.310000 M</td> <td>-44.59</td> <td>-31.59</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>871.192000 M</td> <td>-36.78</td> <td>-23.78</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.989000 G</td> <td>-41.62</td> <td>-28.62</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.000000 G</td> <td>-38.77</td> <td>-25.77</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.527000 G</td> <td>-36.12</td> <td>-23.12</td> </tr> </tbody> </table> <p>Date: 31.AUG.2018 09:52:31</p> | Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 811.310000 M | -44.59 | -31.59 | 855.000 M | 1.000 G | 1.00 M | 871.192000 M | -36.78 | -23.78 | 1.000 G | 3.000 G | 1.00 M | 2.989000 G | -41.62 | -28.62 | 3.000 G | 7.000 G | 1.00 M | 3.000000 G | -38.77 | -25.77 | 7.000 G | 9.000 G | 1.00 M | 7.527000 G | -36.12 | -23.12 |  <table border="1" data-bbox="892 1176 1410 1254"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>142.742500 M</td> <td>-42.53</td> <td>-29.53</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.843350 G</td> <td>-31.21</td> <td>-18.21</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>1.917984 G</td> <td>-33.74</td> <td>-20.74</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>3.014000 G</td> <td>-38.06</td> <td>-25.06</td> </tr> <tr> <td>9.000 G</td> <td>13.000 G</td> <td>1.00 M</td> <td>10.434850 G</td> <td>-34.94</td> <td>-21.94</td> </tr> <tr> <td>13.000 G</td> <td>19.100 G</td> <td>1.00 M</td> <td>15.245875 G</td> <td>-26.61</td> <td>-13.61</td> </tr> </tbody> </table> <p>Date: 31.AUG.2018 10:07:43</p> | Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 142.742500 M | -42.53 | -29.53 | 1.000 G | 3.000 G | 1.00 M | 1.843350 G | -31.21 | -18.21 | 3.000 G | 7.000 G | 1.00 M | 1.917984 G | -33.74 | -20.74 | 7.000 G | 9.000 G | 1.00 M | 3.014000 G | -38.06 | -25.06 | 9.000 G | 13.000 G | 1.00 M | 10.434850 G | -34.94 | -21.94 | 13.000 G | 19.100 G | 1.00 M | 15.245875 G | -26.61 | -13.61 |
| Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 M | 820.000 M | 1.00 M | 811.310000 M | -44.59 | -31.59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.000 M | 1.000 G | 1.00 M | 871.192000 M | -36.78 | -23.78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 2.989000 G | -41.62 | -28.62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 3.000000 G | -38.77 | -25.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.527000 G | -36.12 | -23.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 M | 1.000 G | 1.00 M | 142.742500 M | -42.53 | -29.53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.843350 G | -31.21 | -18.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 1.917984 G | -33.74 | -20.74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 3.014000 G | -38.06 | -25.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.000 G | 13.000 G | 1.00 M | 10.434850 G | -34.94 | -21.94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.000 G | 19.100 G | 1.00 M | 15.245875 G | -26.61 | -13.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Highest Channel | Highest Channel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <table border="1" data-bbox="239 1691 758 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>171.385000 M</td> <td>-43.90</td> <td>-30.90</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>855.362500 M</td> <td>-34.98</td> <td>-21.98</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.982500 G</td> <td>-42.97</td> <td>-28.97</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.089000 G</td> <td>-38.51</td> <td>-25.51</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.649500 G</td> <td>-36.60</td> <td>-23.60</td> </tr> </tbody> </table> <p>Date: 31.AUG.2018 09:53:26</p> | Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 820.000 M | 1.00 M | 171.385000 M | -43.90 | -30.90 | 855.000 M | 1.000 G | 1.00 M | 855.362500 M | -34.98 | -21.98 | 1.000 G | 3.000 G | 1.00 M | 2.982500 G | -42.97 | -28.97 | 3.000 G | 7.000 G | 1.00 M | 3.089000 G | -38.51 | -25.51 | 7.000 G | 9.000 G | 1.00 M | 7.649500 G | -36.60 | -23.60 |  <table border="1" data-bbox="892 1691 1410 1769"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RW [Hz]</th> <th>Freq [Hz]</th> <th>PerAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>170.165000 M</td> <td>-40.73</td> <td>-27.73</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.569308 G</td> <td>-42.17</td> <td>-29.17</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>1.915271 G</td> <td>-29.75</td> <td>-16.75</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>3.089000 G</td> <td>-38.07</td> <td>-25.07</td> </tr> <tr> <td>9.000 G</td> <td>13.000 G</td> <td>1.00 M</td> <td>10.222450 G</td> <td>-35.22</td> <td>-22.22</td> </tr> <tr> <td>13.000 G</td> <td>19.100 G</td> <td>1.00 M</td> <td>15.205333 G</td> <td>-26.80</td> <td>-13.80</td> </tr> </tbody> </table> <p>Date: 31.AUG.2018 10:08:36</p> | Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | 30.000 M | 1.000 G | 1.00 M | 170.165000 M | -40.73 | -27.73 | 1.000 G | 3.000 G | 1.00 M | 1.569308 G | -42.17 | -29.17 | 3.000 G | 7.000 G | 1.00 M | 1.915271 G | -29.75 | -16.75 | 7.000 G | 9.000 G | 1.00 M | 3.089000 G | -38.07 | -25.07 | 9.000 G | 13.000 G | 1.00 M | 10.222450 G | -35.22 | -22.22 | 13.000 G | 19.100 G | 1.00 M | 15.205333 G | -26.80 | -13.80 |
| Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 M | 820.000 M | 1.00 M | 171.385000 M | -43.90 | -30.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 855.000 M | 1.000 G | 1.00 M | 855.362500 M | -34.98 | -21.98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 2.982500 G | -42.97 | -28.97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 3.089000 G | -38.51 | -25.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 7.649500 G | -36.60 | -23.60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Start [Hz] | Stop [Hz] | RW [Hz] | Freq [Hz] | PerAbs [dBm] | ΔLimit [dB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.000 M | 1.000 G | 1.00 M | 170.165000 M | -40.73 | -27.73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.000 G | 3.000 G | 1.00 M | 1.569308 G | -42.17 | -29.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.000 G | 7.000 G | 1.00 M | 1.915271 G | -29.75 | -16.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.000 G | 9.000 G | 1.00 M | 3.089000 G | -38.07 | -25.07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.000 G | 13.000 G | 1.00 M | 10.222450 G | -35.22 | -22.22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13.000 G | 19.100 G | 1.00 M | 15.205333 G | -26.80 | -13.80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Frequency Stability

| Test Conditions | Middle Channel | WCDMA Band V (RMC 12.2Kbps) | Limit |
|------------------|-------------------|--------------------------------|--------|
| | | | 2.5ppm |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0060 | PASS |
| 40 | Normal Voltage | 0.0024 | |
| 30 | Normal Voltage | 0.0000 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0036 | |
| 0 | Normal Voltage | 0.0120 | |
| -10 | Normal Voltage | 0.0120 | |
| -20 | Normal Voltage | 0.0143 | |
| -30 | Normal Voltage | 0.0155 | |
| 20 | Maximum Voltage | 0.0000 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0012 | |



| Test Conditions | Middle Channel | WCDMA Band II (RMC 12.2Kbps) | Limit |
|------------------|-------------------|---------------------------------|---------|
| | | | Note 2. |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0043 | PASS |
| 40 | Normal Voltage | 0.0032 | |
| 30 | Normal Voltage | 0.0016 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0021 | |
| 0 | Normal Voltage | 0.0027 | |
| -10 | Normal Voltage | 0.0037 | |
| -20 | Normal Voltage | 0.0037 | |
| -30 | Normal Voltage | 0.0048 | |
| 20 | Maximum Voltage | 0.0005 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0016 | |

Note:

- 1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

| Channel | Mode | Conducted | | ERP | |
|---------|---------------------|-------------|---------------|----------|--------|
| | | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest | GSM850 | 32.76 | 1.8880 | 27.01 | 0.5023 |
| Middle | GPRS class 8 | 32.88 | 1.9409 | 27.13 | 0.5164 |
| Highest | (GT - LC = -3.6 dB) | 33.09 | 2.0370 | 27.34 | 0.5420 |
| Lowest | GSM850 | 27.30 | 0.5370 | 21.55 | 0.1429 |
| Middle | EDGE class 8 | 27.19 | 0.5236 | 21.44 | 0.1393 |
| Highest | (GT - LC = -3.6 dB) | 27.50 | 0.5623 | 21.75 | 0.1496 |
| Lowest | WCDMA Band V | 24.05 | 0.2541 | 18.30 | 0.0676 |
| Middle | RMC 12.2Kbps | 23.91 | 0.2460 | 18.16 | 0.0655 |
| Highest | (GT - LC = -3.6 dB) | 23.89 | 0.2449 | 18.14 | 0.0652 |
| Limit | ERP < 7W | Result | | PASS | |

| Channel | Mode | Conducted | | EIRP | |
|---------|---------------------|-------------|---------------|-----------|---------|
| | | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest | GSM1900 | 29.14 | 0.8204 | 27.64 | 0.5808 |
| Middle | GPRS class 8 | 29.82 | 0.9594 | 28.32 | 0.6792 |
| Highest | (GT - LC = -1.5 dB) | 30.01 | 1.0023 | 28.51 | 0.7096 |
| Lowest | GSM1900 | 24.94 | 0.3119 | 23.44 | 0.2208 |
| Middle | EDGE class 8 | 24.94 | 0.3119 | 23.44 | 0.2208 |
| Highest | (GT - LC = -1.5 dB) | 25.38 | 0.3451 | 23.88 | 0.2443 |
| Lowest | WCDMA Band II | 21.58 | 0.1439 | 20.08 | 0.1019 |
| Middle | RMC 12.2Kbps | 21.65 | 0.1462 | 20.15 | 0.1035 |
| Highest | (GT - LC = -1.5 dB) | 22.09 | 0.1618 | 20.59 | 0.1146 |
| Limit | EIRP < 2W | Result | | PASS | |



Radiated Spurious Emission

GPRS 850

| GPRS 850 | | | | | | | | | |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -56.74 | -13 | -43.74 | -69.07 | -58.5 | 0.98 | 4.89 | H |
| | 2472 | -46.34 | -13 | -33.34 | -63.87 | -48.22 | 1.28 | 5.32 | H |
| | 3296 | -58.63 | -13 | -45.63 | -78.23 | -62.042 | 1.54 | 7.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1648 | -56.85 | -13 | -43.85 | -69.65 | -58.61 | 0.98 | 4.89 | V |
| | 2472 | -56.38 | -13 | -43.38 | -74.35 | -58.26 | 1.28 | 5.32 | V |
| | 3296 | -58.07 | -13 | -45.07 | -78 | -61.48 | 1.54 | 7.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| GPRS 850 | | | | | | | | | |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1672 | -54.17 | -13 | -41.17 | -65.48 | -59.64 | 1.24 | 8.85 | H |
| | 2512 | -45.01 | -13 | -32.01 | -61.05 | -51.93 | 1.44 | 10.51 | H |
| | 3344 | -56.82 | -13 | -43.82 | -74.43 | -64.86 | 1.74 | 11.93 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1672 | -48.74 | -13 | -35.74 | -59.39 | -54.21 | 1.24 | 8.85 | V |
| | 2512 | -41.05 | -13 | -28.05 | -57.27 | -47.97 | 1.44 | 10.51 | V |
| | 3344 | -56.45 | -13 | -43.45 | -74.51 | -64.49 | 1.74 | 11.93 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Highest | 1696 | -57.17 | -13 | -44.17 | -68.54 | -62.72 | 1.24 | 8.94 | H |
| | 2544 | -47.59 | -13 | -34.59 | -63.63 | -54.53 | 1.44 | 10.54 | H |
| | 3392 | -56.98 | -13 | -43.98 | -74.45 | -65.12 | 1.78 | 12.08 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1696 | -47.74 | -13 | -34.74 | -58.37 | -53.29 | 1.24 | 8.94 | V |
| | 2544 | -49.43 | -13 | -36.43 | -65.56 | -56.37 | 1.44 | 10.54 | V |
| | 3392 | -56.76 | -13 | -43.76 | -74.66 | -64.90 | 1.78 | 12.08 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



EDGE 850

| EDGE 850 | | | | | | | | | |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -61.93 | -13 | -48.93 | -73.16 | -67.32 | 1.23 | 8.76 | H |
| | 2472 | -54.39 | -13 | -41.39 | -70.41 | -61.28 | 1.44 | 10.48 | H |
| | 3296 | -57.09 | -13 | -44.09 | -74.82 | -65.03 | 1.70 | 11.79 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1648 | -58.20 | -13 | -45.20 | -68.89 | -63.59 | 1.23 | 8.76 | V |
| | 2472 | -51.28 | -13 | -38.28 | -67.48 | -58.17 | 1.44 | 10.48 | V |
| | 3296 | -56.43 | -13 | -43.43 | -74.62 | -64.37 | 1.70 | 11.79 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1672 | -56.03 | -13 | -43.03 | -67.34 | -61.50 | 1.24 | 8.85 | H |
| | 2512 | -44.34 | -13 | -31.34 | -60.38 | -51.26 | 1.44 | 10.51 | H |
| | 3344 | -56.44 | -13 | -43.44 | -74.05 | -64.48 | 1.74 | 11.93 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1672 | -48.75 | -13 | -35.75 | -59.4 | -54.22 | 1.24 | 8.85 | V |
| | 2512 | -33.37 | -13 | -20.37 | -64.59 | -40.29 | 1.44 | 10.51 | V |
| | 3344 | -43.45 | -13 | -30.45 | -74.51 | -51.49 | 1.74 | 11.93 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| EDGE 850 | | | | | | | | | |
|----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest | 1696 | -55.30 | -13 | -42.30 | -66.67 | -60.85 | 1.24 | 8.94 | H |
| | 2544 | -44.86 | -13 | -31.86 | -61.9 | -51.80 | 1.44 | 10.54 | H |
| | 3392 | -56.84 | -13 | -43.84 | -74.31 | -64.98 | 1.78 | 12.08 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1696 | -48.46 | -13 | -35.46 | -59.09 | -54.01 | 1.24 | 8.94 | V |
| | 2544 | -43.64 | -13 | -30.64 | -59.77 | -50.58 | 1.44 | 10.54 | V |
| | 3392 | -56.71 | -13 | -43.71 | -74.61 | -64.85 | 1.78 | 12.08 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



WCDMA 850

| WCDMA 850 | | | | | | | | | |
|-----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1648 | -61.90 | -13 | -48.90 | -73.13 | -67.29 | 1.23 | 8.76 | H |
| | 2472 | -57.04 | -13 | -44.04 | -73.06 | -63.93 | 1.44 | 10.48 | H |
| | 3296 | -56.68 | -13 | -43.68 | -74.41 | -64.62 | 1.70 | 11.79 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1648 | -62.24 | -13 | -49.24 | -72.93 | -67.63 | 1.23 | 8.76 | V |
| | 2472 | -57.58 | -13 | -44.58 | -73.78 | -64.47 | 1.44 | 10.48 | V |
| | 3296 | -56.13 | -13 | -43.13 | -74.32 | -64.07 | 1.70 | 11.79 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1672 | -61.48 | -13 | -48.48 | -72.79 | -66.95 | 1.24 | 8.85 | H |
| | 2512 | -57.38 | -13 | -44.38 | -73.42 | -64.30 | 1.44 | 10.51 | H |
| | 3344 | -56.54 | -13 | -43.54 | -74.15 | -64.58 | 1.74 | 11.93 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1672 | -59.24 | -13 | -46.24 | -69.89 | -64.71 | 1.24 | 8.85 | V |
| | 2512 | -54.34 | -13 | -41.34 | -70.56 | -61.26 | 1.44 | 10.51 | V |
| | 3344 | -56.40 | -13 | -43.40 | -74.46 | -64.44 | 1.74 | 11.93 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| WCDMA 850 | | | | | | | | | |
|-----------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest | 1696 | -60.96 | -13 | -47.96 | -72.33 | -66.51 | 1.24 | 8.94 | H |
| | 2356 | -53.66 | -13 | -40.66 | -69.7 | -60.48 | 1.42 | 10.38 | H |
| | 3384 | -56.81 | -13 | -43.81 | -74.32 | -64.94 | 1.77 | 12.05 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1696 | -60.57 | -13 | -47.57 | -71.2 | -66.12 | 1.24 | 8.94 | V |
| | 2356 | -57.36 | -13 | -44.36 | -73.53 | -64.18 | 1.42 | 10.38 | V |
| | 3384 | -56.64 | -13 | -43.64 | -74.59 | -64.77 | 1.77 | 12.05 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



GPRS 1900

| GPRS 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3700 | -54.57 | -13 | -41.57 | -74.76 | -65.78 | 1.41 | 12.62 | H |
| | 5550 | -50.40 | -13 | -37.40 | -75.67 | -61.96 | 1.74 | 13.30 | H |
| | 7400 | -46.38 | -13 | -33.38 | -74.71 | -55.70 | 1.94 | 11.26 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3700 | -54.63 | -13 | -41.63 | -74.96 | -65.84 | 1.41 | 12.62 | V |
| | 5550 | -50.92 | -13 | -37.92 | -75.71 | -62.48 | 1.74 | 13.30 | V |
| | 7400 | -46.29 | -13 | -33.29 | -74.53 | -55.61 | 1.94 | 11.26 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3760 | -54.19 | -13 | -41.19 | -74.57 | -65.42 | 1.43 | 12.66 | H |
| | 5640 | -50.23 | -13 | -37.23 | -75.49 | -61.80 | 1.73 | 13.30 | H |
| | 7520 | -46.26 | -13 | -33.26 | -74.09 | -55.37 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3760 | -55.64 | -13 | -42.64 | -74.22 | -66.87 | 1.43 | 12.66 | V |
| | 5640 | -50.65 | -13 | -37.65 | -75.51 | -62.22 | 1.73 | 13.30 | V |
| | 7520 | -46.46 | -13 | -33.46 | -74.25 | -55.57 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| GPRS 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest | 3700 | -56.85 | -13 | -43.85 | -77.82 | -63.42 | 1.67 | 8.24 | H |
| | 5640 | -43.50 | -13 | -30.50 | -69 | -50.55 | 2.71 | 9.76 | H |
| | 7400 | -51.01 | -13 | -38.01 | -78.2 | -60.15 | 2.46 | 11.60 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3762 | -55.60 | -13 | -42.60 | -76.53 | -62.23 | 1.69 | 8.31 | V |
| | 5640 | -46.59 | -13 | -33.59 | -72.07 | -53.64 | 2.71 | 9.76 | V |
| | 7518 | -48.66 | -13 | -35.66 | -76.17 | -58.05 | 2.42 | 11.81 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



EDGE 1900

| EDGE 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3700 | -54.92 | -13 | -41.92 | -75.11 | -66.13 | 1.41 | 12.62 | H |
| | 5550 | -50.34 | -13 | -37.34 | -75.61 | -61.90 | 1.74 | 13.30 | H |
| | 7400 | -46.37 | -13 | -33.37 | -74.77 | -55.69 | 1.94 | 11.26 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3700 | -54.58 | -13 | -41.58 | -74.91 | -65.79 | 1.41 | 12.62 | V |
| | 5550 | -50.96 | -13 | -37.96 | -75.75 | -62.52 | 1.74 | 13.30 | V |
| | 7400 | -46.66 | -13 | -33.66 | -74.9 | -55.98 | 1.94 | 11.26 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3760 | -54.60 | -13 | -41.60 | -74.98 | -65.83 | 1.43 | 12.66 | H |
| | 5640 | -50.44 | -13 | -37.44 | -75.7 | -62.01 | 1.73 | 13.30 | H |
| | 7520 | -46.69 | -13 | -33.69 | -74.52 | -55.80 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3760 | -53.91 | -13 | -40.91 | -74.49 | -65.14 | 1.43 | 12.66 | V |
| | 5640 | -51.03 | -13 | -38.03 | -75.89 | -62.60 | 1.73 | 13.30 | V |
| | 7520 | -46.68 | -13 | -33.68 | -74.47 | -55.79 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| EDGE 1900 | | | | | | | | | |
|-----------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest | 3819 | -54.53 | -13 | -41.53 | -75.17 | -65.78 | 1.44 | 12.69 | H |
| | 5723 | -50.05 | -13 | -37.05 | -75.71 | -61.62 | 1.73 | 13.30 | H |
| | 7635 | -46.69 | -13 | -33.69 | -74.19 | -55.81 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3819 | -54.50 | -13 | -41.50 | -75.38 | -65.75 | 1.44 | 12.69 | V |
| | 5723 | -50.81 | -13 | -37.81 | -75.83 | -62.38 | 1.73 | 13.30 | V |
| | 7635 | -47.02 | -13 | -34.02 | -74.43 | -56.14 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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



WCDMA 1900

| WCDMA 1900 | | | | | | | | | |
|------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3707 | -54.26 | -13 | -41.26 | -74.45 | -65.47 | 1.41 | 12.62 | H |
| | 5557 | -50.68 | -13 | -37.68 | -75.93 | -62.24 | 1.74 | 13.30 | H |
| | 7410 | -46.07 | -13 | -33.07 | -74.41 | -55.37 | 1.94 | 11.24 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3707 | -54.47 | -13 | -41.47 | -74.8 | -65.68 | 1.41 | 12.62 | V |
| | 5557 | -50.91 | -13 | -37.91 | -75.68 | -62.47 | 1.74 | 13.30 | V |
| | 7410 | -46.19 | -13 | -33.19 | -74.39 | -55.49 | 1.94 | 11.24 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3763 | -54.12 | -13 | -41.12 | -74.57 | -65.35 | 1.43 | 12.66 | H |
| | 5639 | -50.60 | -13 | -37.60 | -75.86 | -62.17 | 1.73 | 13.30 | H |
| | 7520 | -46.45 | -13 | -33.45 | -74.28 | -55.56 | 1.99 | 11.10 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3760 | -53.33 | -13 | -40.33 | -74 | -64.56 | 1.43 | 12.66 | V |
| | 5640 | -51.20 | -13 | -38.20 | -76.06 | -62.77 | 1.73 | 13.30 | V |
| | 7520 | -46.72 | -13 | -33.72 | -74.51 | -55.83 | 1.99 | 11.10 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| WCDMA 1900 | | | | | | | | | |
|------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest | 3812 | -54.56 | -13 | -41.56 | -75.14 | -65.81 | 1.44 | 12.69 | H |
| | 5723 | -50.25 | -13 | -37.25 | -75.91 | -61.82 | 1.73 | 13.30 | H |
| | 7627 | -47.07 | -13 | -34.07 | -74.57 | -56.19 | 2.01 | 11.13 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3812 | -53.10 | -13 | -40.10 | -73.95 | -64.35 | 1.44 | 12.69 | V |
| | 5723 | -50.72 | -13 | -37.72 | -75.74 | -62.29 | 1.73 | 13.30 | V |
| | 7630 | -47.20 | -13 | -34.20 | -74.61 | -56.32 | 2.01 | 11.13 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

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