



FCC RF Test Report

APPLICANT : Motorola Mobility, LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 6574
FCC ID : IHDT56VB2
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Apr. 01, 2016 and testing was completed on Apr. 27, 2016. 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 / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG640145A	Rev. 01	Initial issue of report	May 11, 2016



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235		Within Authorized Band		
4.4	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 30.25 dB at 2512.000 MHz



1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	6574
FCC ID	IHDT56VB2
IMEI Code	354108070054088 (for Radiation) 354108070054849 (for Conduction)
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC 2.4GHz WLAN 11b/g/n HT20 WLAN 11ac VHT20 5GHz WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 EDR Bluetooth v4.2 LE
HW Version	DVT2
EUT Stage	Identical Prototype

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

Accessory List	
AC Adapter	Brand Name : Motorola
	Model Name : SPN5912A

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz WCDMA: Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz CDMA2000: BC0: 824.70 MHz ~ 848.31 MHz BC1: 1851.25 MHz ~ 1908.75 MHz
Rx Frequency	GSM/GPRS/EDGE: 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA: Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz CDMA2000: BC0: 869.70 MHz ~ 893.31 MHz BC1: 1931.25 MHz ~ 1988.75 MHz
Antenna Type	Fixed Internal Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK

1.5 Modification of EUT

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



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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GPRS class 8	GMSK	0.6039	0.0622 ppm	246KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.0944	0.0072 ppm	247KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.0975	0.0155 ppm	4M14F9W
Part 22	CDMA2000 BC0 1xRTT	QPSK	0.0815	0.0263 ppm	1M28F9W
Part 22	CDMA2000 BC0 1xEV-DO Rev. 0	QPSK	0.0753	0.0215 ppm	1M29F9W
Part 24	GSM1900 GPRS class 8	GMSK	1.0914	0.0441 ppm	245KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.3221	0.0069 ppm	250KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2489	0.0027 ppm	4M16F9W
Part 24	CDMA2000 BC1 1xRTT	QPSK	0.2415	0.0043 ppm	1M28F9W
Part 24	CDMA2000 BC1 1xEV-DO Rev. A	QPSK	0.2333	0.0032 ppm	1M28F9W

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH03-HY ; 03CH07-HY

1.8 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

Radiated emissions were investigated as following frequency range:

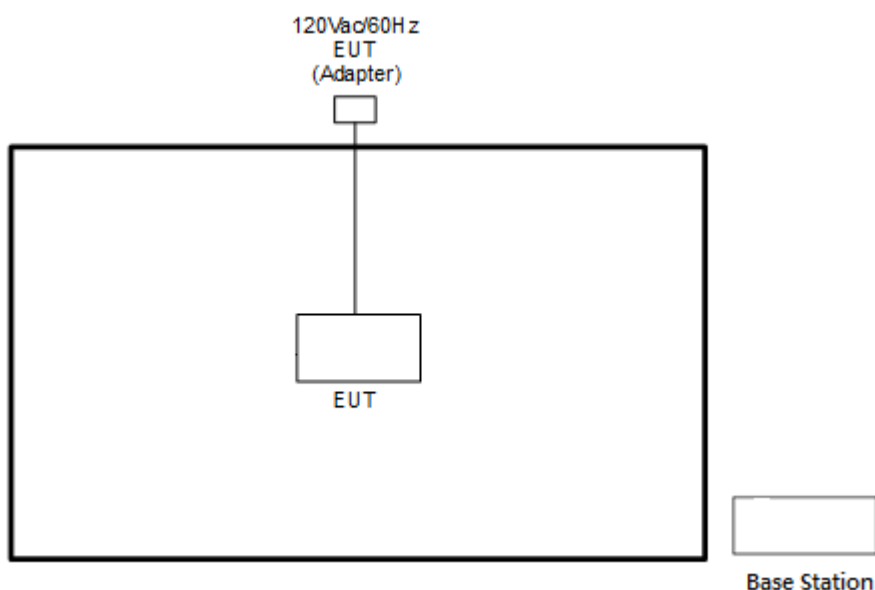
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V and CDMA BC0.
2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II and CDMA BC1.

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 ■ EDGE class 8 Link	■ GPRS class 8 Link ■ EDGE class 8 Link
GSM 1900	■ GPRS class 8 Link ■ EDGE class 8 Link	■ GPRS 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
CDMA BC0	■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link	■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link
CDMA BC1	■ 1xRTT Link ■ 1xEV-DO Rev. A Link	■ 1xRTT Link ■ 1xEV-DO Rev. A 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

2.4 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 :

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

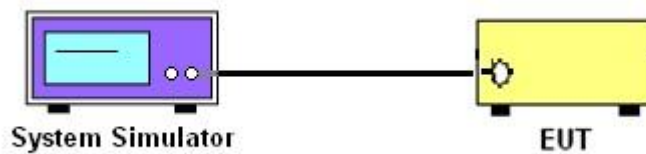
3 Conducted Test Result

3.1 Measuring Instruments

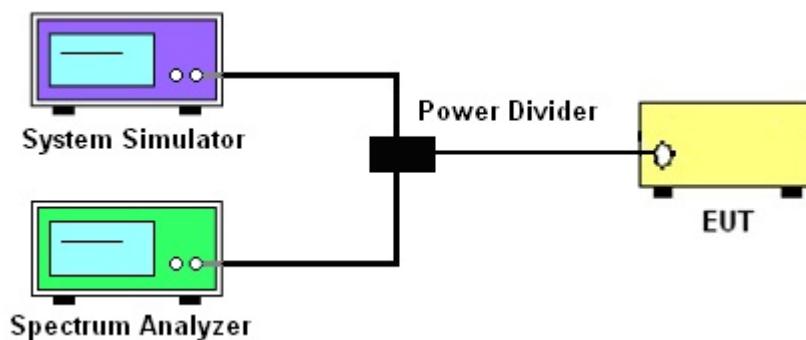
See list of measuring instruments of this test report.

3.2 Test Setup

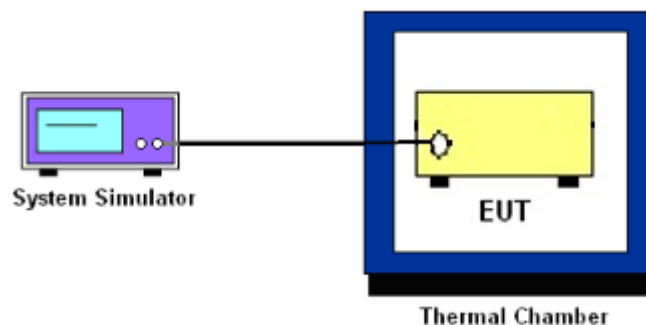
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power

3.4.1 Description of the Conducted Output Power

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

3.4.2 Test Procedures

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



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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



3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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

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

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

3.6.2 Test Procedures

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



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v02r02 Section 6.0.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The band edges of low and high channels for the highest RF powers were measured.
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)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
= -13dBm.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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

3.8.2 Test Procedures

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

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

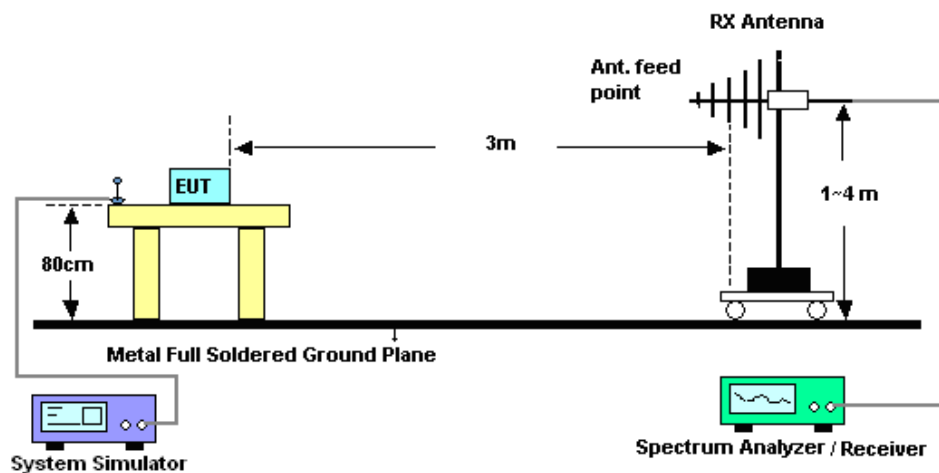
4 Radiated Test Items

4.1 Measuring Instruments

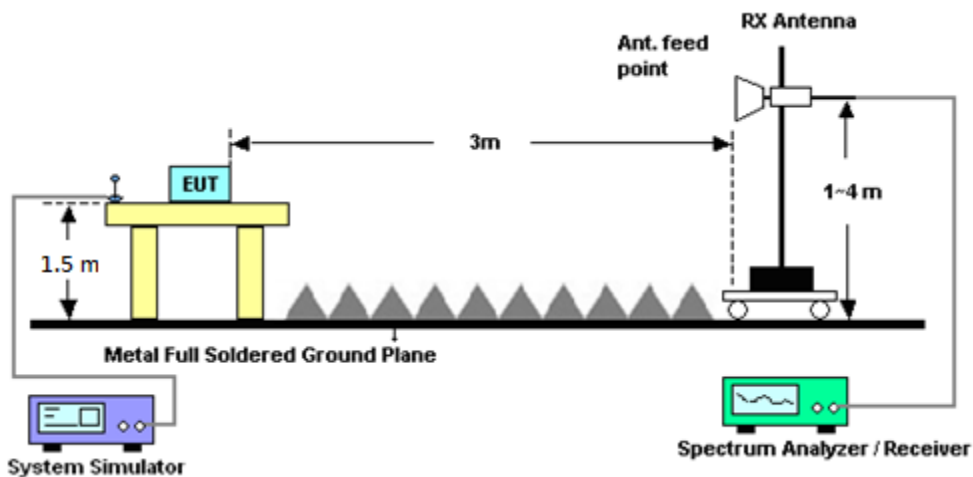
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

4.4.1 Description of the ERP/EIRP Measurement

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

4.4.2 Test Procedures

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



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

4.5 Field Strength of Spurious Radiation Measurement

4.5.1 Description of Field Strength of Spurious Radiated Measurement

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

4.5.2 Test Procedures

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Jun. 24, 2015	Apr. 16, 2016 ~ Apr. 22, 2016	Jun. 23, 2016	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 20, 2015	Apr. 16, 2016 ~ Apr. 22, 2016	Nov. 19, 2016	Conducted (TH03-HY)
Base Station(Measu	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 26, 2015	Apr. 16, 2016 ~ Apr. 22, 2016	Jul. 25, 2016	Conducted (TH03-HY)
Bilog Antenna	TESEQ	CBL 6111D	35419	30MHz ~ 1GHz	Jun. 13, 2016	Apr. 23, 2016 ~ Apr. 27, 2016	Jun. 12, 2017	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	Aug. 20, 2016	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 12, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	Nov. 11, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 18, 2016	Apr. 23, 2016 ~ Apr. 27, 2016	Mar. 17, 2017	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Mar. 18, 2016	Apr. 23, 2016 ~ Apr. 27, 2016	Mar. 17, 2017	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	Jun. 01, 2016	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Feb. 27, 2016	Apr. 23, 2016 ~ Apr. 27, 2016	Feb. 26, 2017	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Apr. 23, 2016 ~ Apr. 27, 2016	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Apr. 23, 2016 ~ Apr. 27, 2016	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Apr. 23, 2016 ~ Apr. 27, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Apr. 23, 2016 ~ Apr. 27, 2016	N/A	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz ~ 18GHz	Nov. 02, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	Nov. 01, 2016	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Oct. 12, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	Oct. 11, 2016	Radiation (03CH07-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	May 21, 2016	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 31, 2016	Apr. 23, 2016 ~ Apr. 27, 2016	Mar. 30, 2017	Radiation (03CH07-HY)
Horn Antenna	ESCO	3117	00066584	1GHz~18GHz	Sep. 02, 2015	Apr. 23, 2016 ~ Apr. 27, 2016	Sep. 01, 2016	Radiation (03CH07-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.60
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.96	32.58	32.64	29.02	29.13	29.92
GPRS class 8	32.94	32.62	32.64	29.08	29.15	29.93
GPRS class 10	28.88	28.87	28.87	26.02	25.86	25.94
GPRS class 11	26.75	26.76	26.78	24.04	24.07	24.10
GPRS class 12	25.52	25.51	25.50	22.63	22.70	22.65
EGPRS class 8	25.97	26.02	26.04	24.71	24.70	24.76
EGPRS class 10	25.85	25.85	25.83	24.52	24.57	24.67
EGPRS class 11	24.35	24.42	24.44	23.25	23.25	23.30
EGPRS class 12	23.00	23.03	23.07	21.94	21.92	22.04

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	23.09	22.88	23.03	23.11	23.05	23.19
HSDPA Subtest-1	23.11	22.90	23.04	22.08	22.02	22.18
HSDPA Subtest-2	22.06	21.87	22.00	22.06	22.01	22.16
HSDPA Subtest-3	22.05	21.86	21.99	21.58	21.53	21.65
HSDPA Subtest-4	21.53	21.38	21.42	21.57	21.52	21.63
HSUPA Subtest-1	22.07	21.84	21.98	21.85	21.97	22.14
HSUPA Subtest-2	20.05	19.87	19.96	19.83	20.00	20.12
HSUPA Subtest-3	21.04	20.85	20.99	20.85	21.03	21.15
HSUPA Subtest-4	20.02	19.88	19.97	19.84	20.02	20.10
HSUPA Subtest-5	21.94	21.84	21.89	22.00	21.96	22.07



Conducted Power (*Unit: dBm)						
Band	CDMA 2000 BC0			CDMA 2000 BC1		
Channel	1013	384	777	25	600	1175
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75
1xRTT RC1 SO55	23.99	23.98	24.07	24.37	24.39	24.33
1xRTT RC3 SO55	24.14	23.99	24.11	24.44	24.44	24.43
1xRTT RC3 SO32 (+ F-SCH)	24.15	24.11	24.09	24.41	24.45	24.42
1xRTT RC3 SO32 (+SCH)	24.16	24.13	24.08	24.44	24.43	24.43
1xEVDO RTAP 153.6Kbps	24.04	24.04	24.05	24.42	24.46	24.43
1xEVDO RETAP 4096Bits	23.89	23.86	23.95	24.44	24.48	24.35

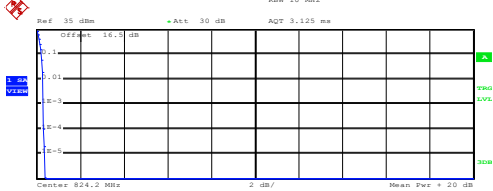
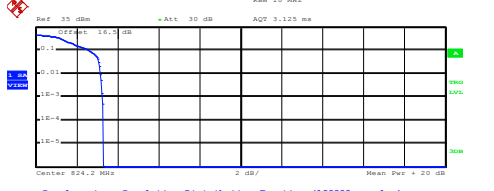
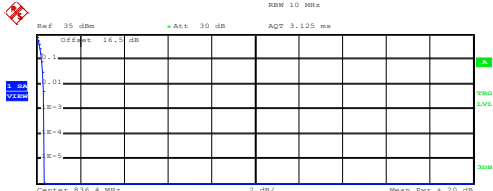
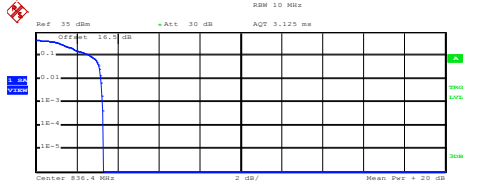
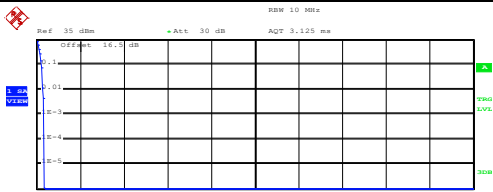
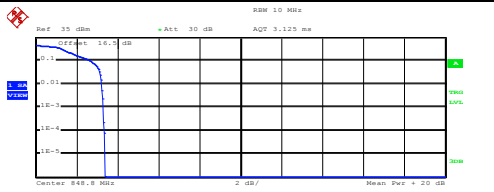


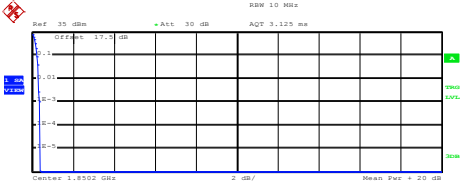
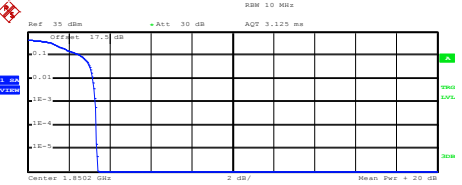
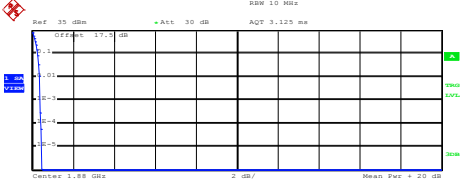
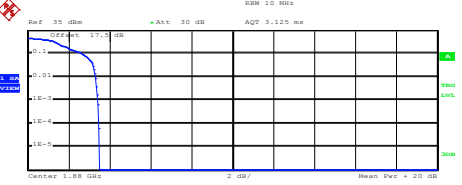
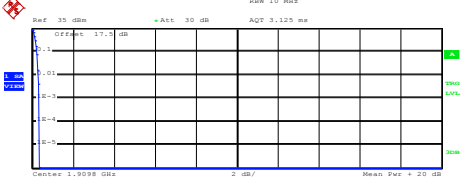
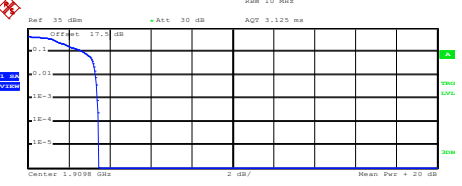
A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.32	3.28	PASS
Middle CH	0.36	3.28	
Highest CH	0.36	3.32	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.36	3.32	PASS
Middle CH	0.40	3.44	
Highest CH	0.36	3.40	

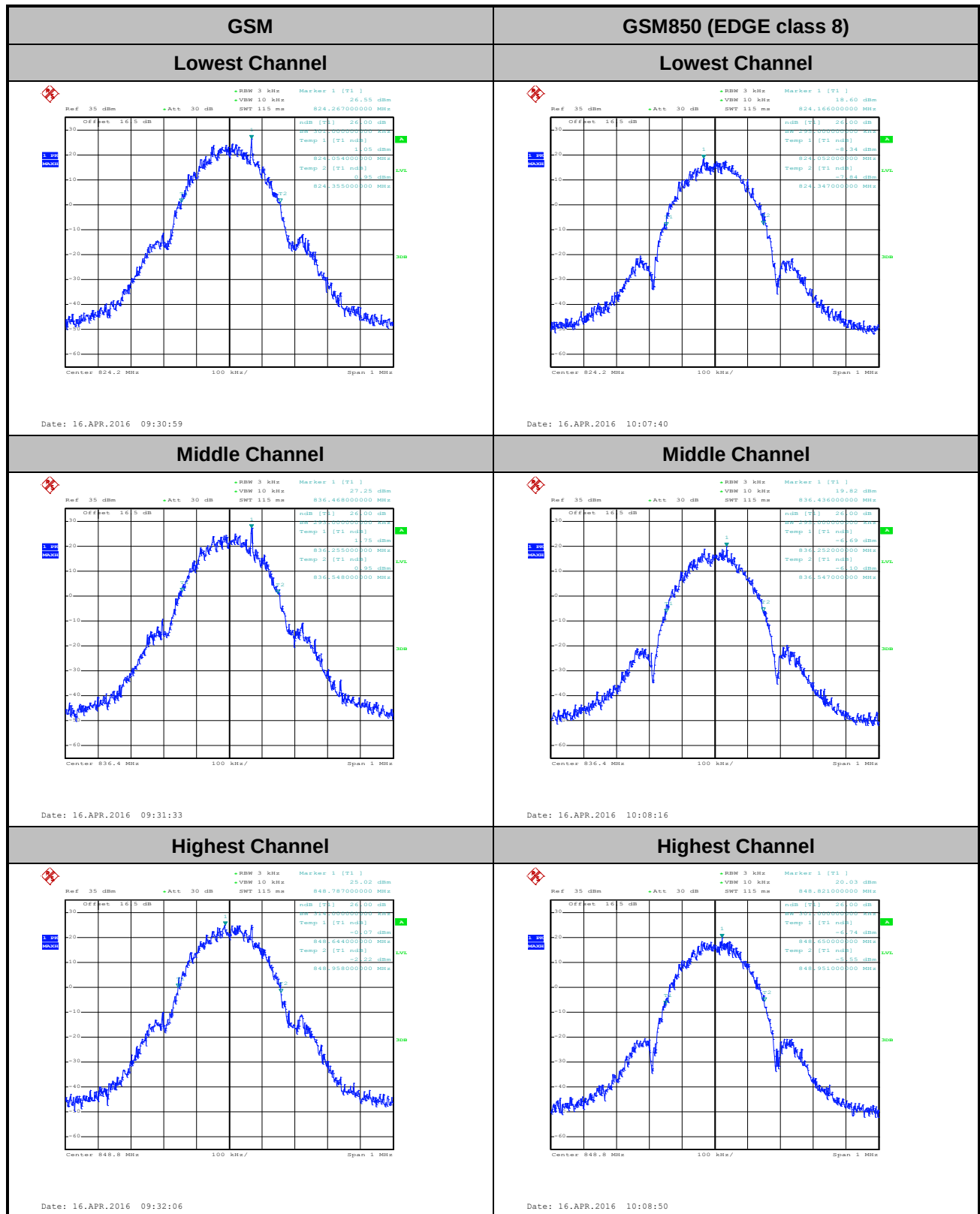
GSM	GSM850 (EDGE class 8)
Lowest Channel	Lowest Channel
 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 824.2 MHz Mean: 32.55 dBm Peak: 32.92 dBm Crest: 0.37 dB 10 % 0.24 dB 1 % 0.32 dB .1 % 0.32 dB .01 % 0.32 dB Date: 16.APR.2016 09:54:39	 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 824.2 MHz Mean: 26.03 dBm Peak: 29.33 dBm Crest: 3.29 dB 10 % 2.64 dB 1 % 3.16 dB .1 % 3.28 dB .01 % 3.32 dB Date: 16.APR.2016 10:19:13
Middle Channel	Middle Channel
 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 836.4 MHz Mean: 32.38 dBm Peak: 32.71 dBm Crest: 0.33 dB 10 % 0.24 dB 1 % 0.32 dB .1 % 0.36 dB .01 % 0.36 dB Date: 16.APR.2016 09:54:58	 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 836.4 MHz Mean: 26.08 dBm Peak: 29.40 dBm Crest: 3.31 dB 10 % 2.68 dB 1 % 3.20 dB .1 % 3.28 dB .01 % 3.32 dB Date: 16.APR.2016 10:19:37
Highest Channel	Highest Channel
 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 848.8 MHz Mean: 33.07 dBm Peak: 33.42 dBm Crest: 0.35 dB 10 % 0.24 dB 1 % 0.28 dB .1 % 0.36 dB .01 % 0.36 dB Date: 16.APR.2016 09:55:19	 Ref: 35 dBm Att: 30 dB AGT: 3.125 ms Center: 848.8 MHz Mean: 26.58 dBm Peak: 29.96 dBm Crest: 3.38 dB 10 % 2.68 dB 1 % 3.24 dB .1 % 3.32 dB .01 % 3.36 dB Date: 16.APR.2016 10:19:54

GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)
Lowest Channel	Lowest Channel
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.8502 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.58 dBm Peak 29.96 dBm Crest 0.38 dB 10 % 0.24 dB 1 % 0.32 dB .1 % 0.36 dB .01 % 0.40 dB Date: 16.APR.2016 10:53:23	 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.8502 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.14 dBm Peak 28.55 dBm Crest 3.41 dB 10 % 2.60 dB 1 % 3.16 dB .1 % 3.32 dB .01 % 3.36 dB Date: 16.APR.2016 11:24:30
Middle Channel	Middle Channel
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.88 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.30 dBm Peak 29.75 dBm Crest 0.45 dB 10 % 0.28 dB 1 % 0.36 dB .1 % 0.40 dB .01 % 0.44 dB Date: 16.APR.2016 10:53:45	 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.88 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.72 dBm Peak 28.20 dBm Crest 3.48 dB 10 % 2.68 dB 1 % 3.32 dB .1 % 3.44 dB .01 % 3.48 dB Date: 16.APR.2016 11:24:46
Highest Channel	Highest Channel
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.9098 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.19 dBm Peak 30.52 dBm Crest 0.33 dB 10 % 0.24 dB 1 % 0.32 dB .1 % 0.36 dB .01 % 0.36 dB Date: 16.APR.2016 10:54:01	 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.9098 GHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.74 dBm Peak 29.18 dBm Crest 3.45 dB 10 % 2.72 dB 1 % 3.32 dB .1 % 3.40 dB .01 % 3.48 dB Date: 16.APR.2016 11:25:03

**26dB Bandwidth**

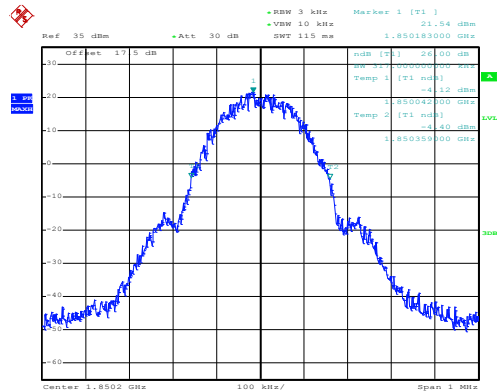
Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.301	0.295
Middle CH	0.293	0.295
Highest CH	0.314	0.301

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.317	0.302
Middle CH	0.316	0.304
Highest CH	0.309	0.303



GSM1900 (GPRS class 8)

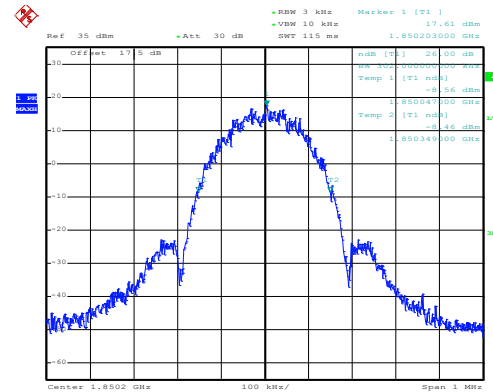
Lowest Channel



Date: 16.APR.2016 10:43:38

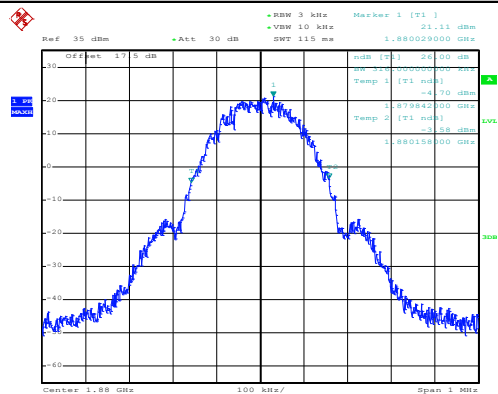
GSM1900 (EDGE class 8)

Lowest Channel



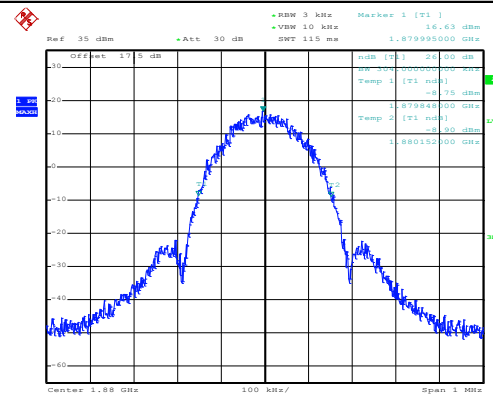
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Middle Channel



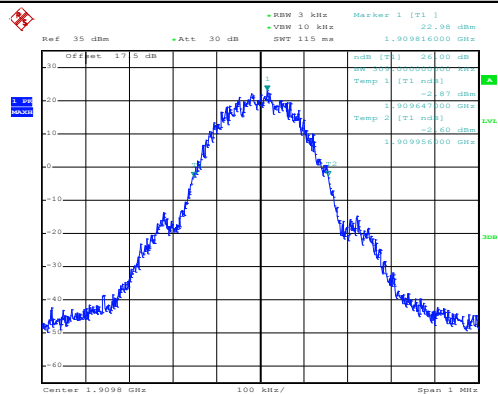
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Middle Channel



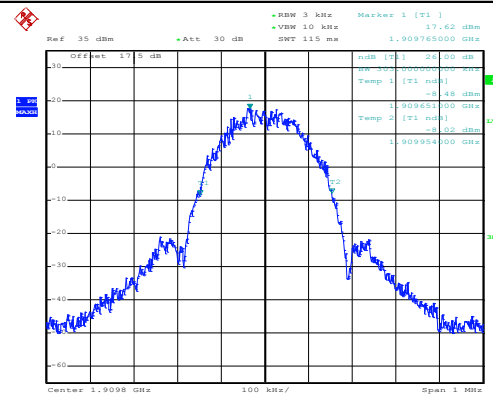
Date: 16.APR.2016 11:13:45

Highest Channel



Date: 16.APR.2016 10:44:49

Highest Channel

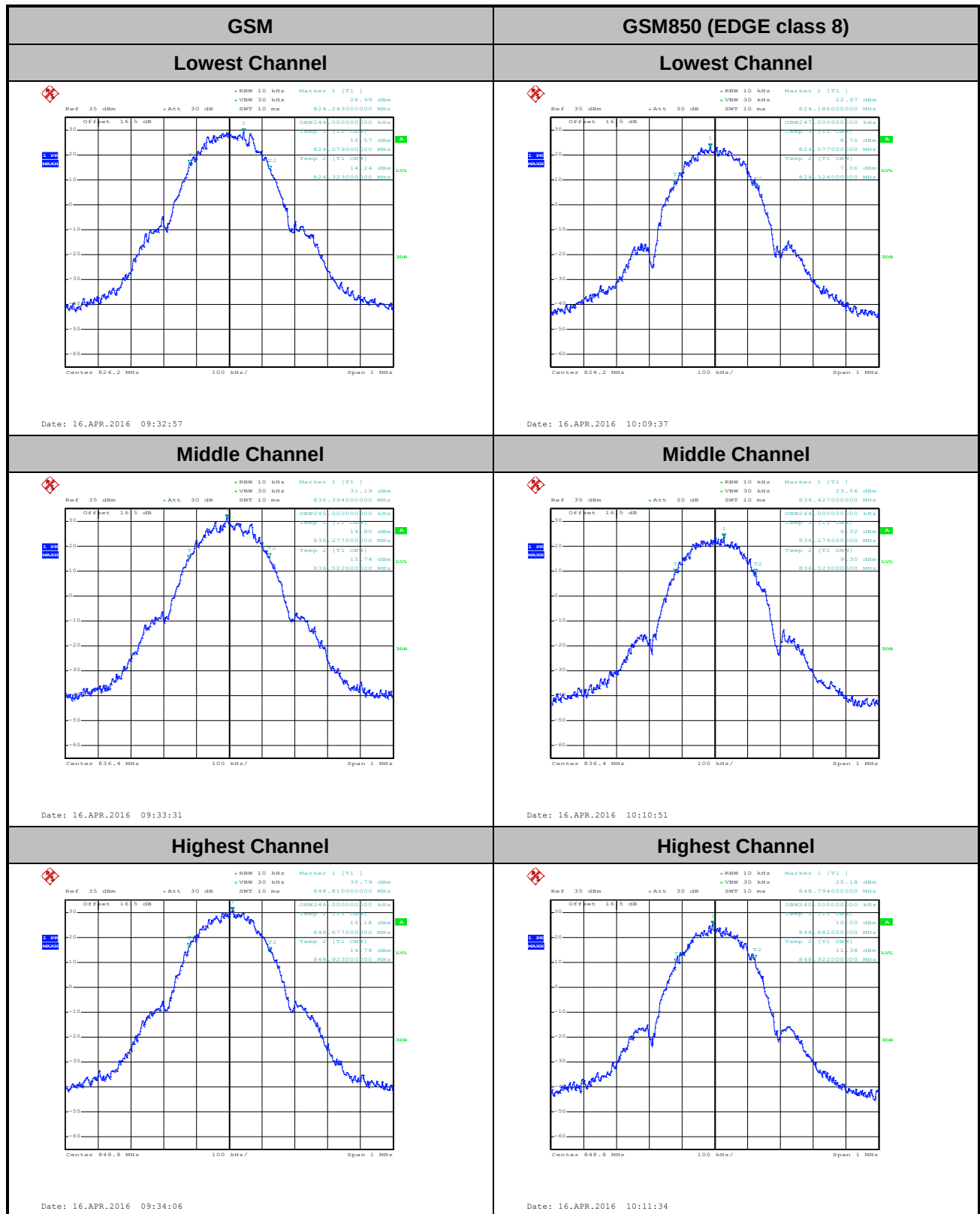


Date: 16.APR.2016 11:14:42

**Occupied Bandwidth**

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.244	0.247
Middle CH	0.245	0.244
Highest CH	0.246	0.240

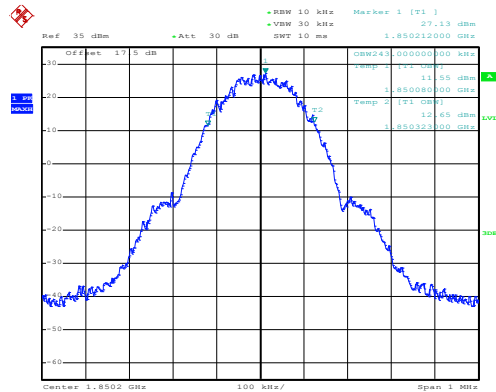
Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.243	0.250
Middle CH	0.245	0.247
Highest CH	0.245	0.245





GSM1900 (GPRS class 8)

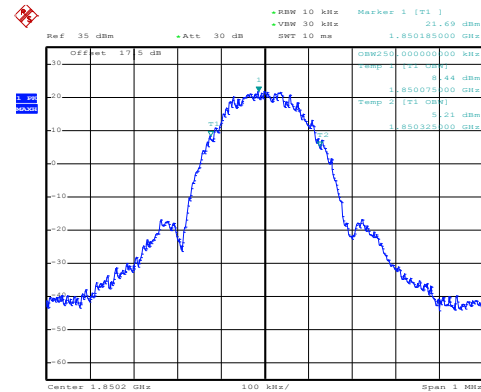
Lowest Channel



Date: 16.APR.2016 10:45:42

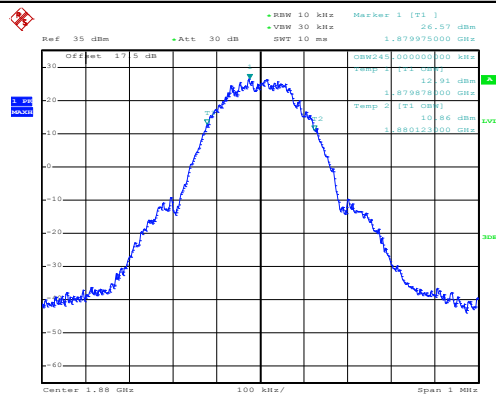
GSM1900 (EDGE class 8)

Lowest Channel



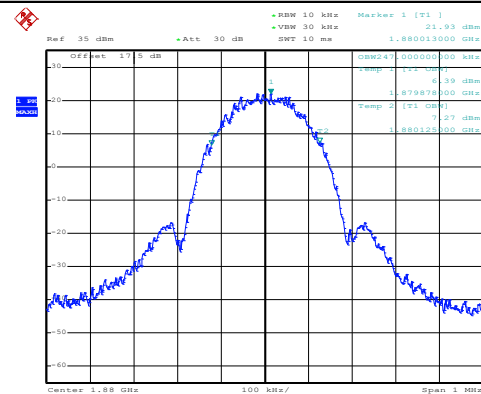
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Middle Channel



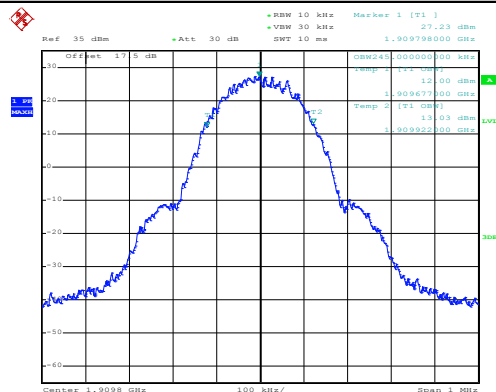
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Middle Channel



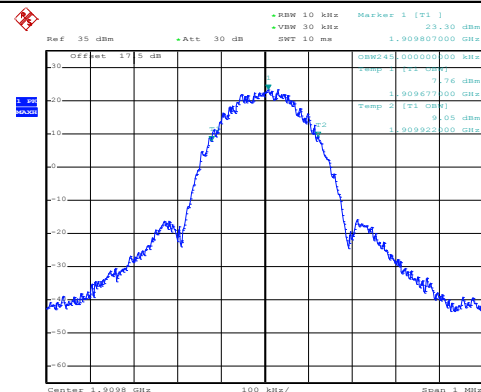
Date: 16.APR.2016 11:17:13

Highest Channel



Date: 16.APR.2016 10:47:48

Highest Channel



Date: 16.APR.2016 11:17:49

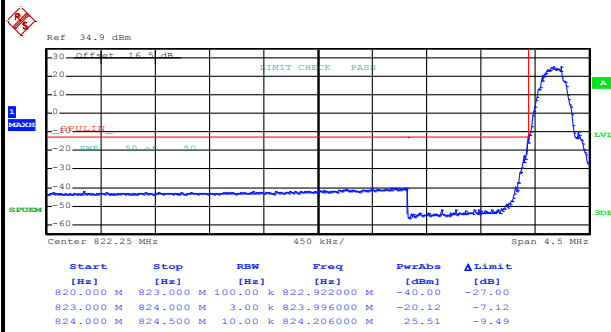


Conducted Band Edge



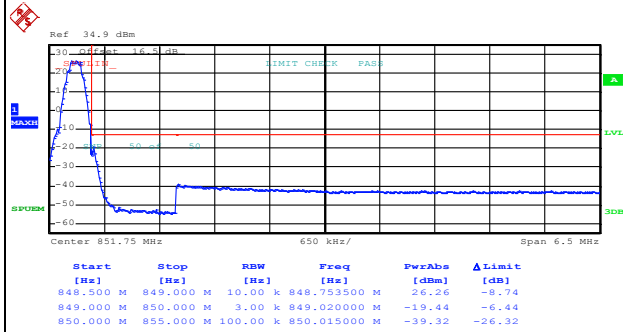
GSM

Lowest Band Edge



Date: 16.APR.2016 09:43:42

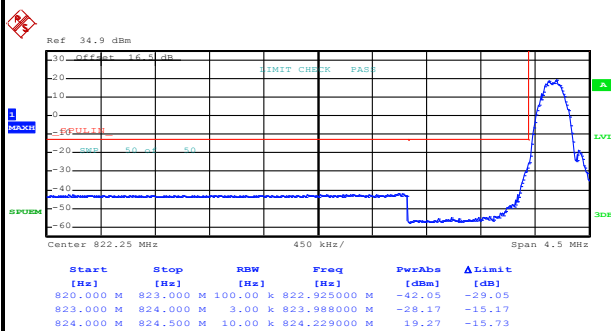
Highest Band Edge



Date: 16.APR.2016 09:48:33

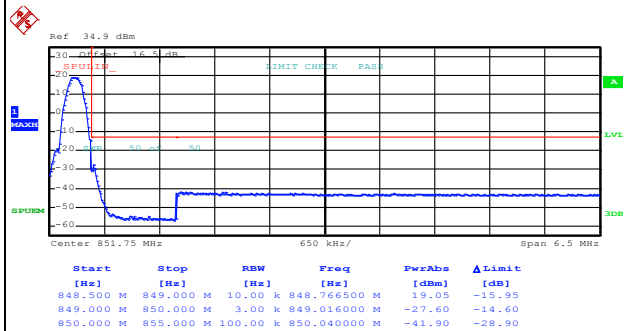
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 16.APR.2016 10:26:41

Highest Band Edge

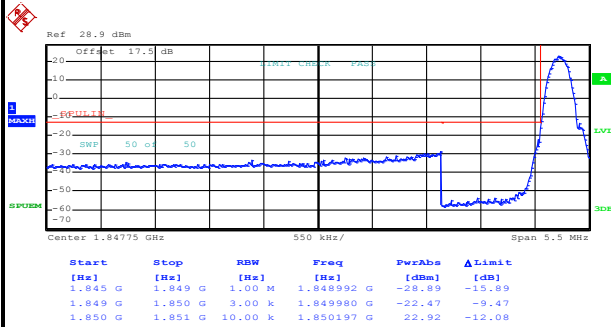


Date: 16.APR.2016 10:28:37



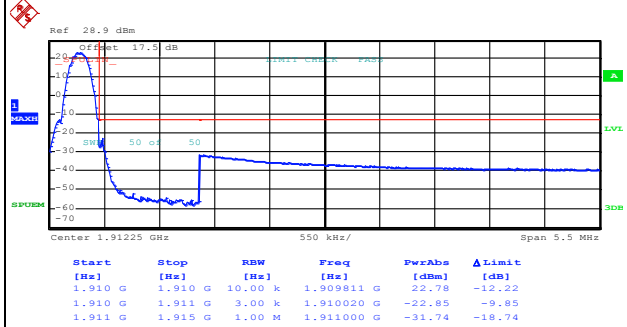
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 16.APR.2016 10:56:17

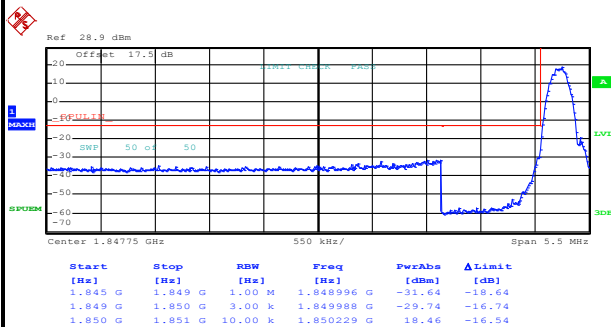
Highest Band Edge



Date: 16.APR.2016 10:57:53

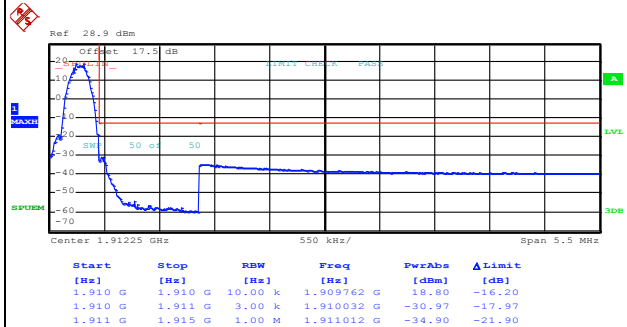
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 16.APR.2016 11:26:52

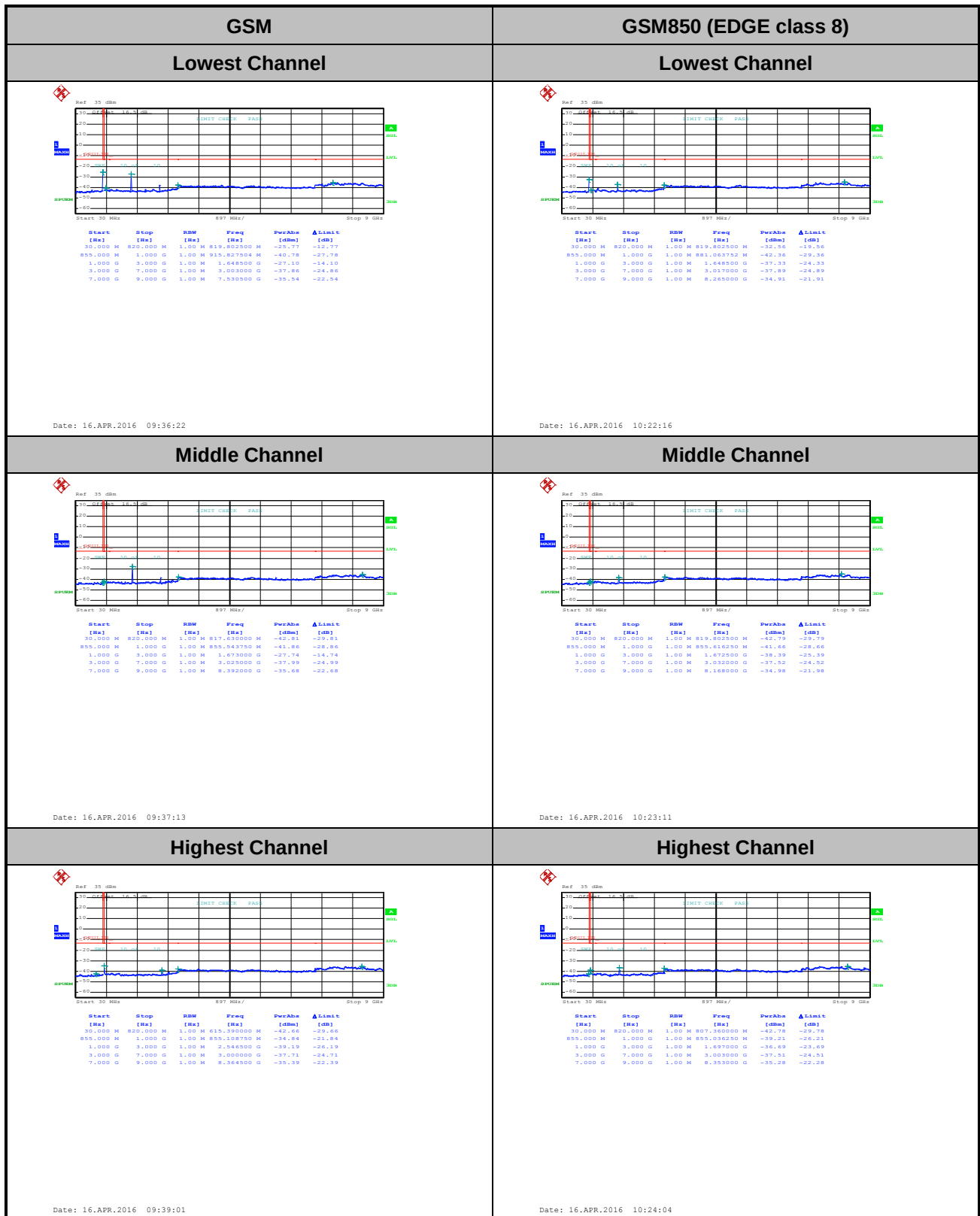
Highest Band Edge



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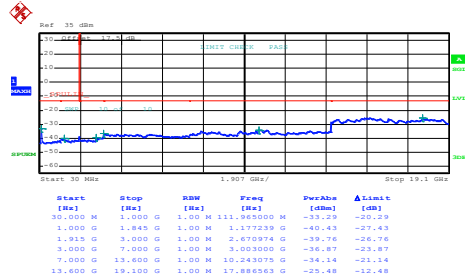


Conducted Spurious Emission



GSM1900 (GPRS class 8)

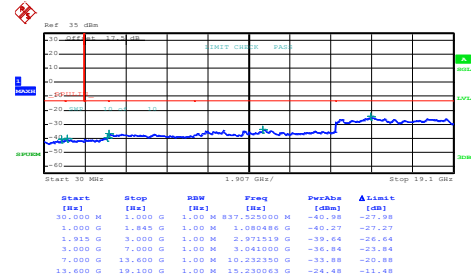
Lowest Channel



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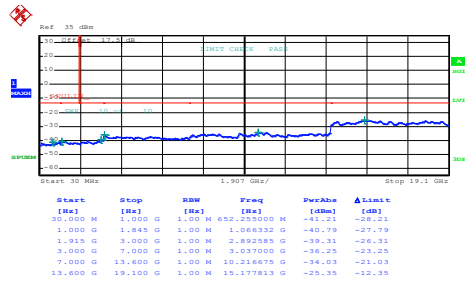
GSM1900 (EDGE class 8)

Lowest Channel



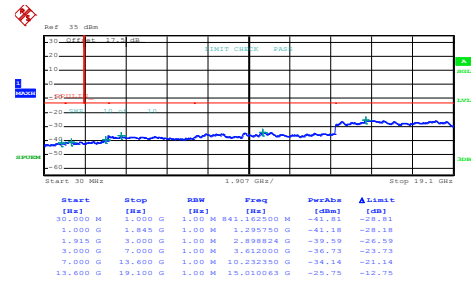
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Middle Channel



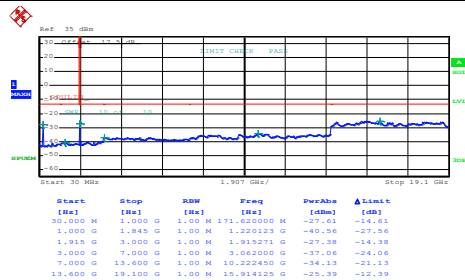
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Middle Channel



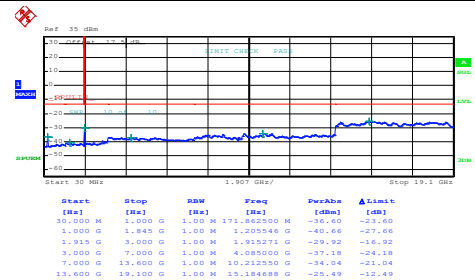
Date: 16.APR.2016 11:21:54

Highest Channel



Date: 16.APR.2016 10:51:54

Highest Channel



Date: 16.APR.2016 11:23:32

Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		2.5ppm
50	Normal Voltage	0.0622	0.0048	PASS
40	Normal Voltage	0.0060	0.0012	
30	Normal Voltage	0.0024	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0526	0.0036	
0	Normal Voltage	0.0562	0.0012	
-10	Normal Voltage	0.0502	0.0012	
-20	Normal Voltage	0.0610	0.0072	
-30	Normal Voltage	0.0598	0.0060	
20	Maximum Voltage	0.0024	0.0012	
20	Normal Voltage	0.0084	0.0036	
20	Battery End Point	0.0048	0.0024	

Note:

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



Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
		Deviation (ppm)		Result
50	Normal Voltage	0.0037	0.0037	PASS
40	Normal Voltage	0.0011	0.0005	
30	Normal Voltage	0.0016	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0027	0.0016	
0	Normal Voltage	0.0441	0.0005	
-10	Normal Voltage	0.0043	0.0011	
-20	Normal Voltage	0.0053	0.0027	
-30	Normal Voltage	0.0069	0.0021	
20	Maximum Voltage	0.0048	0.0011	
20	Normal Voltage	0.0037	0.0032	
20	Battery End Point	0.0074	0.0069	

Note:

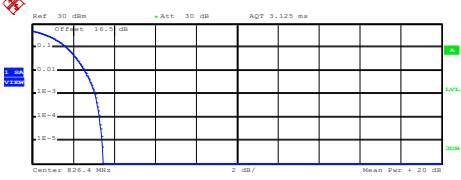
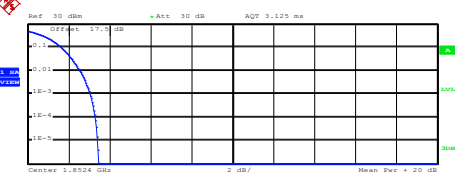
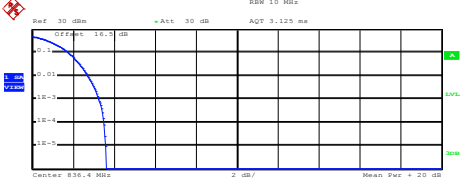
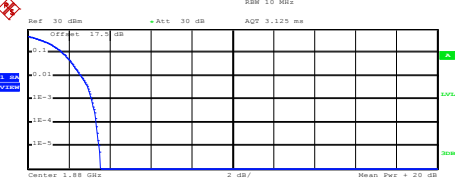
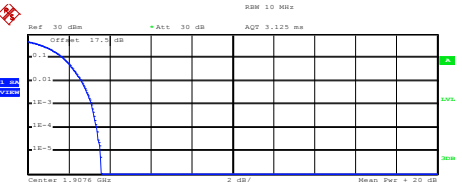
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage = 4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.



A2. 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	3.04	PASS
Middle CH	3.24	3.12	
Highest CH	3.20	3.12	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
 Center 826.4 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.03 dBm Peak 23.48 dBm Crest 3.45 dB 10 % 1.68 dB 1 % 2.56 dB .1 % 3.08 dB .01 % 3.28 dB Date: 16.APR.2016 13:52:29	 Center 1.8524 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.40 dBm Peak 22.84 dBm Crest 3.45 dB 10 % 1.64 dB 1 % 2.56 dB .1 % 3.04 dB .01 % 3.32 dB Date: 16.APR.2016 12:07:02
Middle Channel	Middle Channel
 Center 836.4 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.85 dBm Peak 23.48 dBm Crest 3.63 dB 10 % 1.76 dB 1 % 2.72 dB .1 % 3.24 dB .01 % 3.52 dB Date: 16.APR.2016 13:52:38	 Center 1.85 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.78 dBm Peak 23.34 dBm Crest 3.55 dB 10 % 1.68 dB 1 % 2.60 dB .1 % 3.12 dB .01 % 3.36 dB Date: 16.APR.2016 12:06:23
Highest Channel	Highest Channel
 Center 846.6 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.07 dBm Peak 23.62 dBm Crest 3.55 dB 10 % 1.72 dB 1 % 2.68 dB .1 % 3.20 dB .01 % 3.40 dB Date: 16.APR.2016 13:54:50	 Center 1.9076 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.69 dBm Peak 23.27 dBm Crest 3.57 dB 10 % 1.72 dB 1 % 2.64 dB .1 % 3.12 dB .01 % 3.36 dB Date: 16.APR.2016 12:07:29



26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.71	4.73
Middle CH	4.70	4.73
Highest CH	4.71	4.73





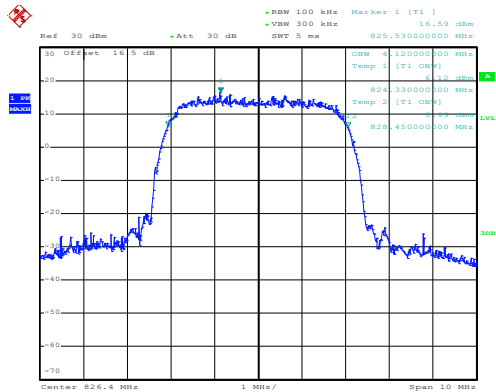
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.12	4.14
Middle CH	4.14	4.16
Highest CH	4.13	4.14



WCDMA Band V (RMC 12.2Kbps)

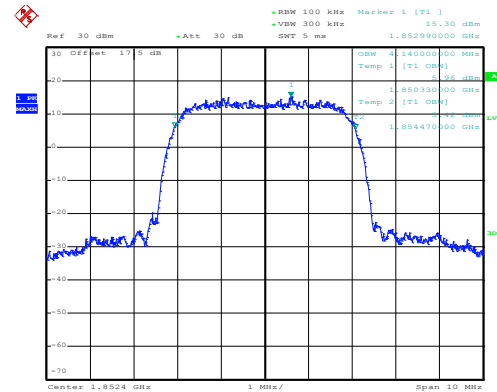
Lowest Channel



Date: 16.APR.2016 13:42:51

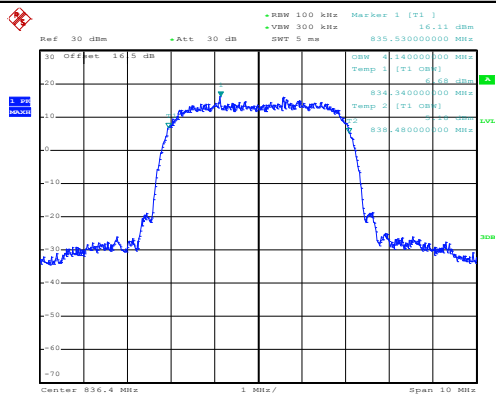
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



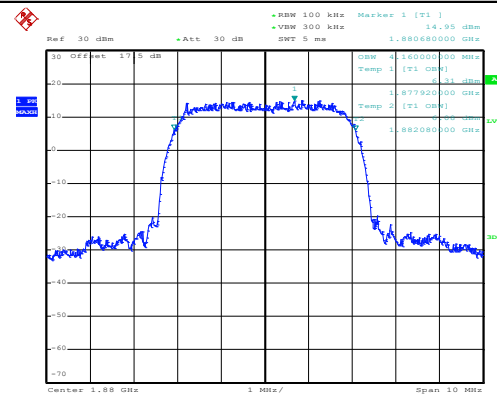
Date: 16.APR.2016 12:01:55

Middle Channel



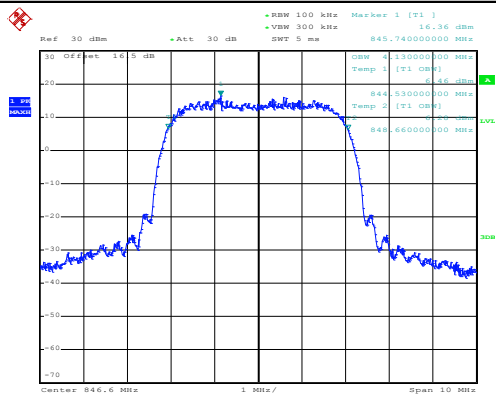
Date: 16.APR.2016 13:43:19

Middle Channel



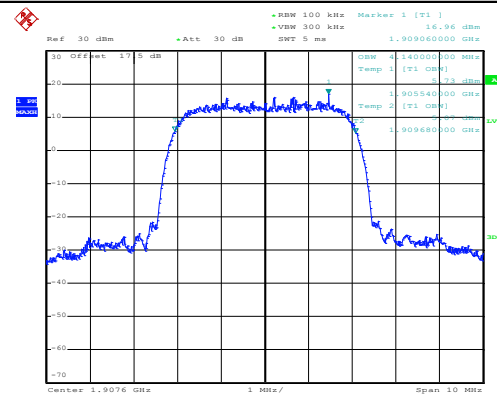
Date: 16.APR.2016 12:02:23

Highest Channel



Date: 16.APR.2016 13:40:03

Highest Channel



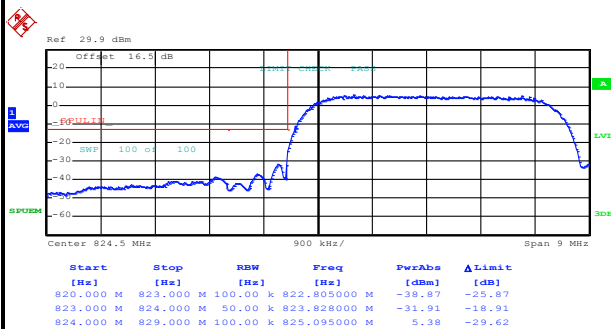
Date: 16.APR.2016 12:02:51



Conducted Band Edge

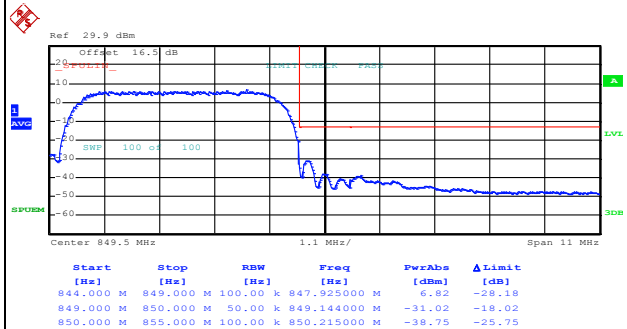
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 16.APR.2016 14:00:21

Highest Band Edge

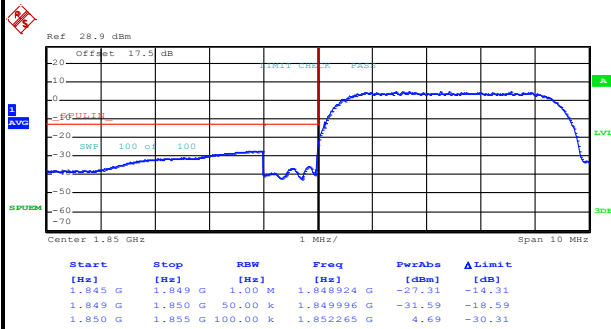


Date: 16.APR.2016 14:03:04



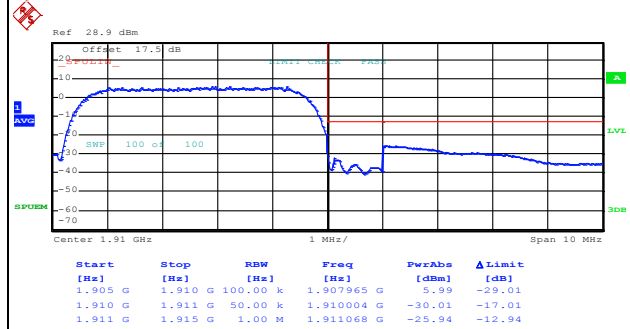
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 16.APR.2016 12:10:37

Highest Band Edge

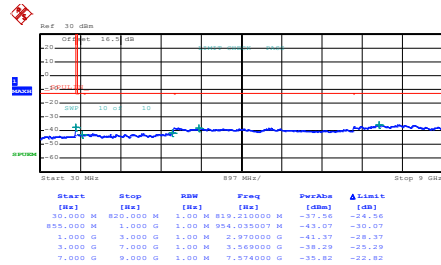


Date: 16.APR.2016 12:13:20

Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

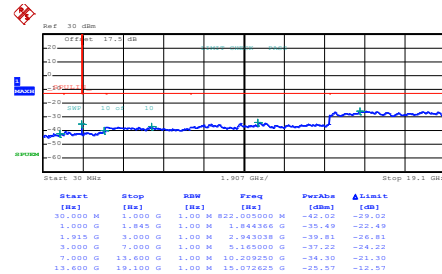
Lowest Channel



Date: 16.APR.2016 13:56:06

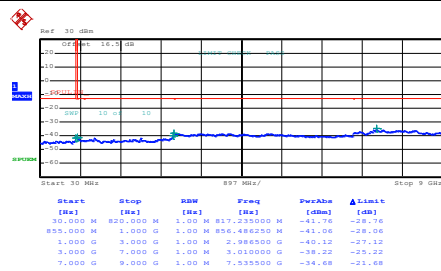
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



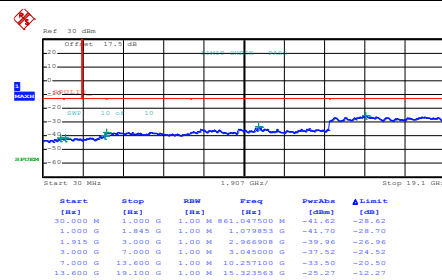
Date: 16.APR.2016 12:03:44

Middle Channel



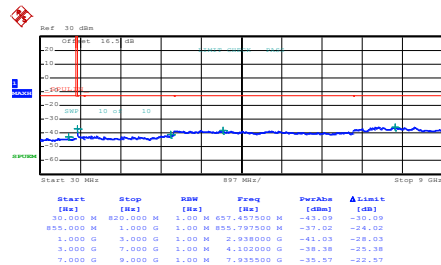
Date: 16.APR.2016 13:56:52

Middle Channel



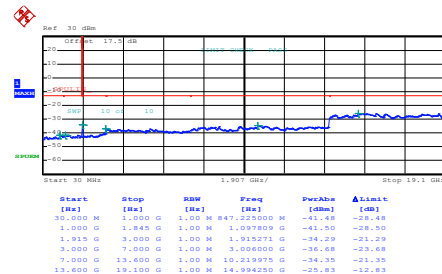
Date: 16.APR.2016 12:04:30

Highest Channel



Date: 16.APR.2016 13:57:37

Highest Channel



Date: 16.APR.2016 12:05:16

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm
50	Normal Voltage	0.0155	PASS
40	Normal Voltage	0.0120	
30	Normal Voltage	0.0132	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0108	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0132	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0000	

Note:

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



Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0011	

Note:

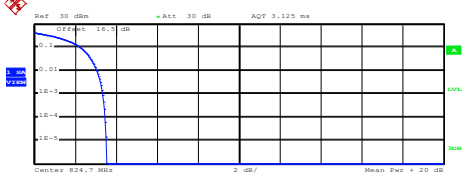
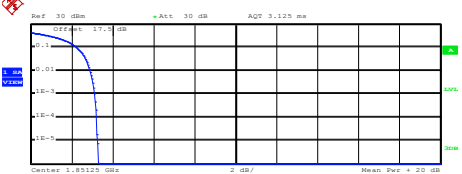
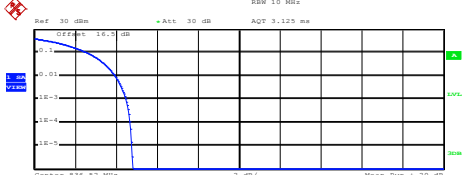
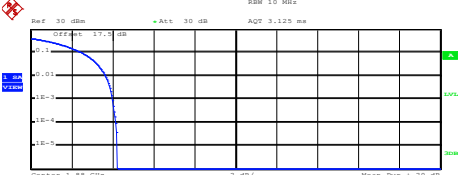
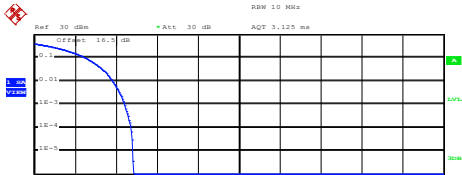
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.

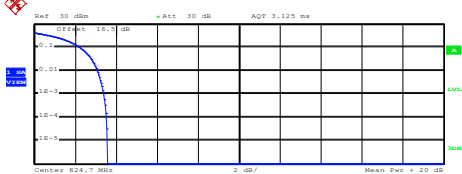
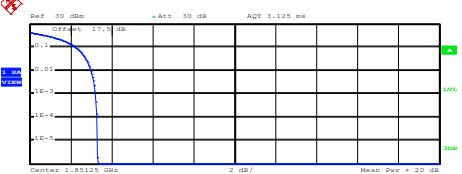
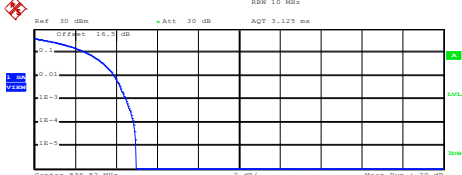
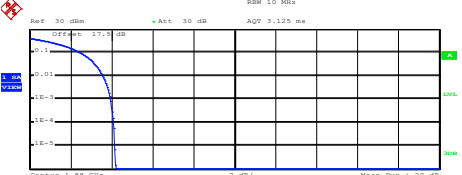
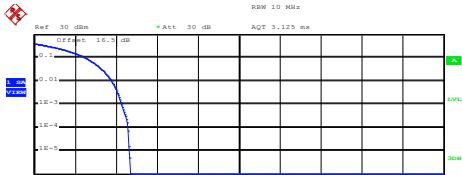
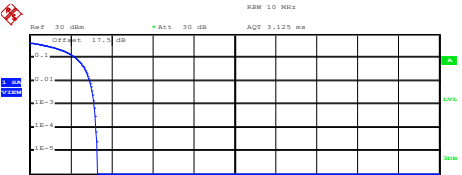
A3. CDMA

Peak-to-Average Ratio

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xRTT	1xRTT	Result
Lowest CH	3.36	3.12	PASS
Middle CH	4.48	4.00	
Highest CH	4.44	3.04	

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. A	Result
Lowest CH	3.40	3.20	PASS
Middle CH	4.48	3.96	
Highest CH	4.28	3.16	

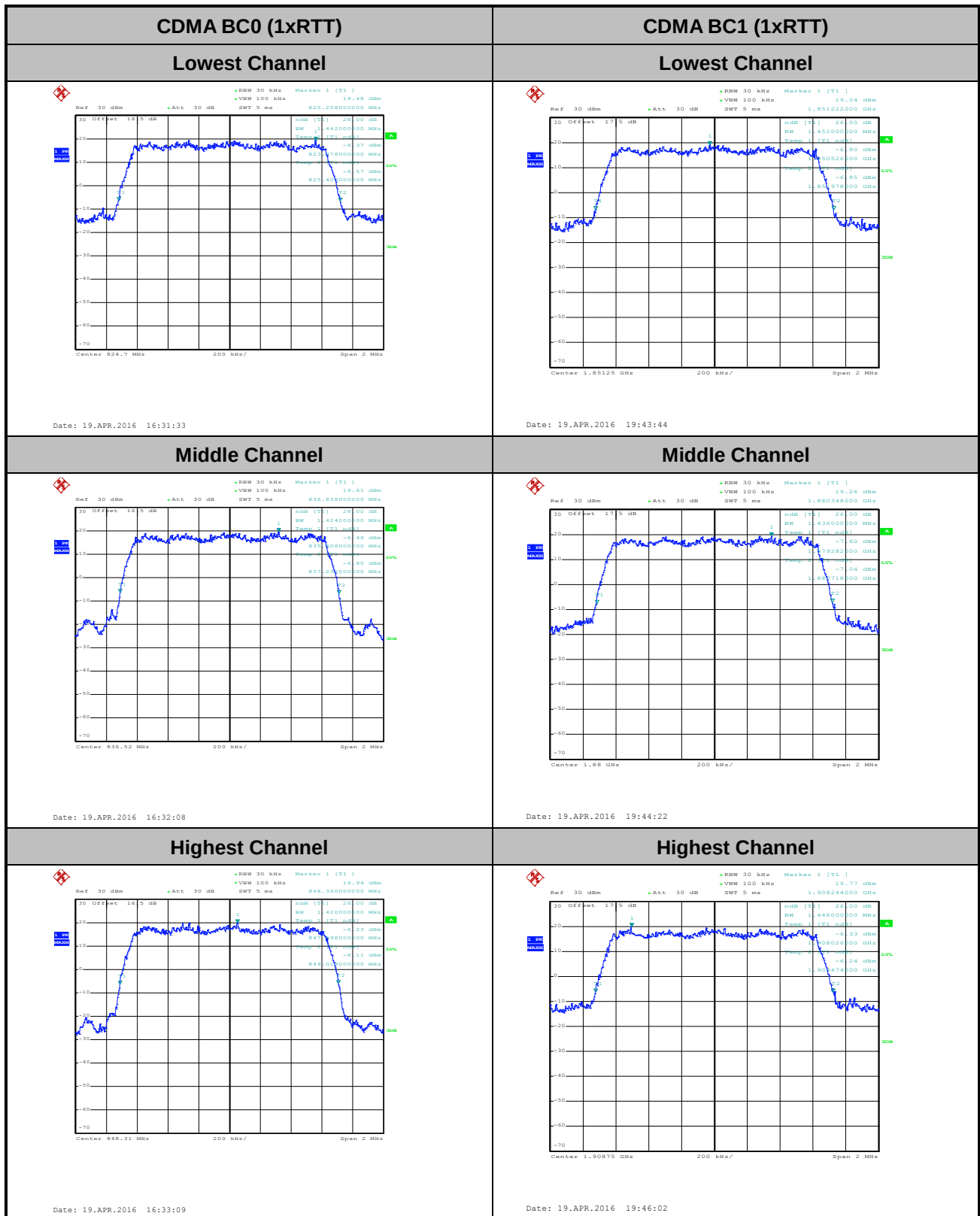
CDMA BC0 (1xRTT)	CDMA BC1 (1xRTT)
Lowest Channel	Lowest Channel
 Center 824.7 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.98 dBm Peak 27.50 dBm Crest 3.52 dB 10 % 2.28 dB 1 % 3.08 dB .1 % 3.36 dB .01 % 3.48 dB Date: 19.APR.2016 16:40:02	 Center 1.85123 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.92 dBm Peak 27.22 dBm Crest 3.30 dB 10 % 2.24 dB 1 % 2.88 dB .1 % 3.12 dB .01 % 3.24 dB Date: 19.APR.2016 19:54:55
Middle Channel	Middle Channel
 Center 836.52 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.97 dBm Peak 28.77 dBm Crest 4.80 dB 10 % 2.60 dB 1 % 3.96 dB .1 % 4.48 dB .01 % 4.68 dB Date: 19.APR.2016 16:40:20	 Center 1.85 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.06 dBm Peak 28.28 dBm Crest 4.22 dB 10 % 2.52 dB 1 % 3.64 dB .1 % 4.00 dB .01 % 4.16 dB Date: 19.APR.2016 19:55:09
Highest Channel	Highest Channel
 Center 848.33 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.79 dBm Peak 28.63 dBm Crest 4.84 dB 10 % 2.52 dB 1 % 3.84 dB .1 % 4.44 dB .01 % 4.72 dB Date: 19.APR.2016 16:40:33	 Center 1.90875 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.13 dBm Peak 27.29 dBm Crest 3.16 dB 10 % 2.20 dB 1 % 2.84 dB .1 % 3.04 dB .01 % 3.12 dB Date: 19.APR.2016 19:55:24

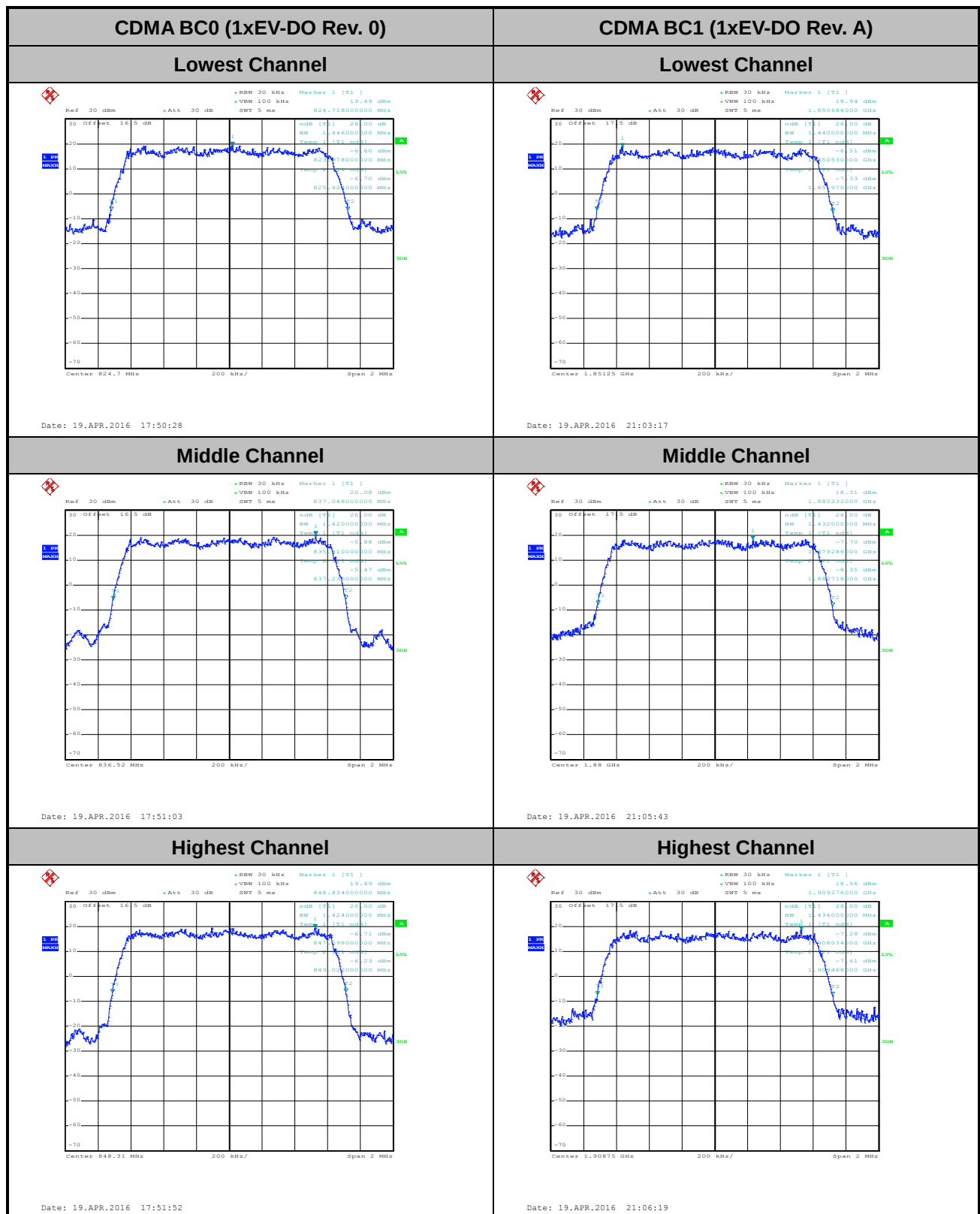
CDMA BC0 (1xEV-DO Rev. 0)	CDMA BC1 (1xEV-DO Rev. A)
Lowest Channel	Lowest Channel
 Center 824.7 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.94 dBm Peak 27.50 dBm Crest 3.56 dB 10 % 2.24 dB 1 % 3.08 dB .1 % 3.40 dB .01 % 3.52 dB Date: 19.APR.2016 18:01:48	 Center 1.85123 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.83 dBm Peak 27.15 dBm Crest 3.31 dB 10 % 2.28 dB 1 % 3.00 dB .1 % 3.20 dB .01 % 3.28 dB Date: 19.APR.2016 21:15:44
Middle Channel	Middle Channel
 Center 836.52 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.00 dBm Peak 28.98 dBm Crest 4.98 dB 10 % 2.56 dB 1 % 3.92 dB .1 % 4.48 dB .01 % 4.88 dB Date: 19.APR.2016 18:02:01	 Center 1.85 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.22 dBm Peak 28.42 dBm Crest 4.20 dB 10 % 2.48 dB 1 % 3.56 dB .1 % 3.96 dB .01 % 4.12 dB Date: 19.APR.2016 21:15:59
Highest Channel	Highest Channel
 Center 848.31 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.01 dBm Peak 28.70 dBm Crest 4.69 dB 10 % 2.52 dB 1 % 3.80 dB .1 % 4.28 dB .01 % 4.60 dB Date: 19.APR.2016 18:02:21	 Center 1.90873 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.12 dBm Peak 27.43 dBm Crest 3.31 dB 10 % 2.24 dB 1 % 2.92 dB .1 % 3.16 dB .01 % 3.24 dB Date: 19.APR.2016 21:16:14

**26dB Bandwidth**

Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.44	1.45
Middle CH	1.42	1.44
Highest CH	1.42	1.45

Mode	CDMA BC0	CDMA BC1
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. A
Lowest CH	1.45	1.44
Middle CH	1.42	1.43
Highest CH	1.42	1.43





Occupied Bandwidth

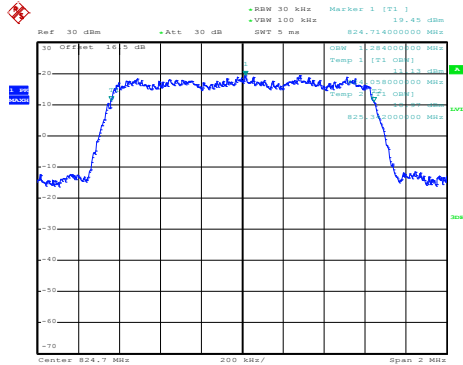
Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.28	1.28
Middle CH	1.28	1.28
Highest CH	1.28	1.28

Mode	CDMA BC0	CDMA BC1
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. A
Lowest CH	1.29	1.28
Middle CH	1.28	1.27
Highest CH	1.28	1.28



CDMA BC0 (1xRTT)

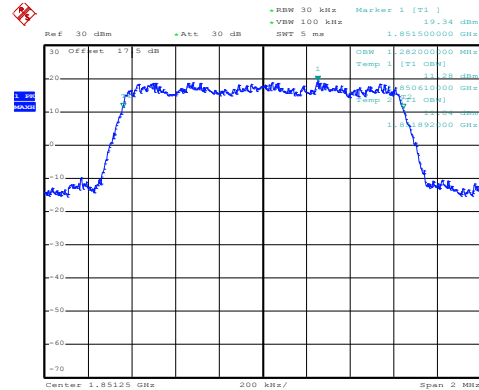
Lowest Channel



Date: 19.APR.2016 16:34:43

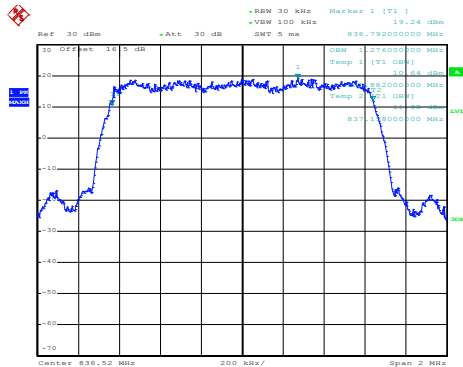
CDMA BC1 (1xRTT)

Lowest Channel



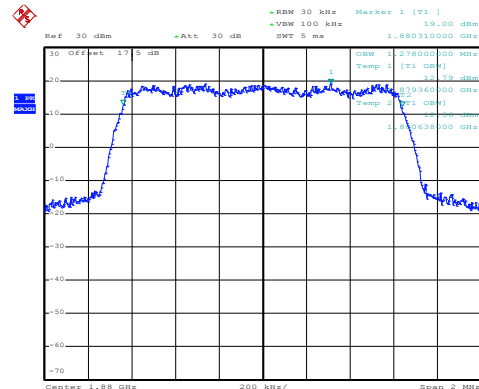
Date: 19.APR.2016 19:47:05

Middle Channel



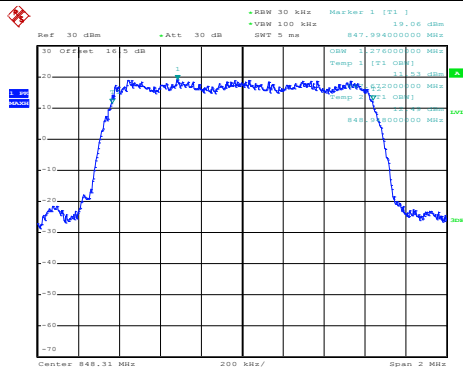
Date: 19.APR.2016 16:35:21

Middle Channel



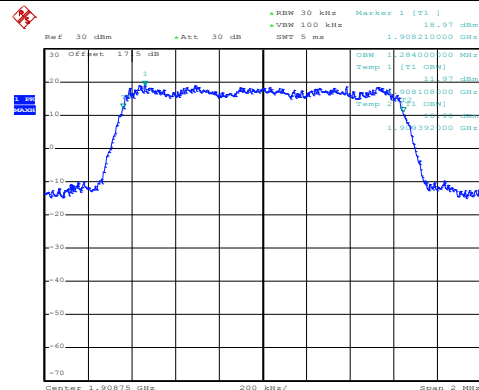
Date: 19.APR.2016 19:47:42

Highest Channel



Date: 19.APR.2016 16:35:54

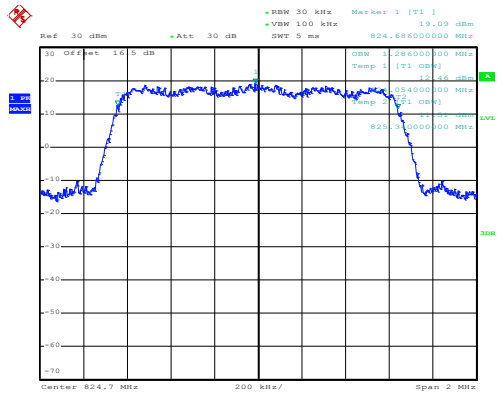
Highest Channel



Date: 19.APR.2016 19:48:33

CDMA BC0 (1xEV-DO Rev. 0)

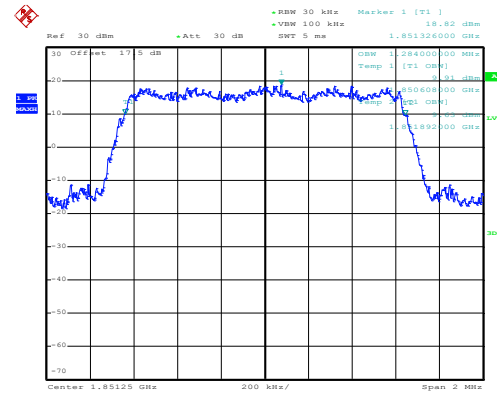
Lowest Channel



Date: 19.APR.2016 17:53:15

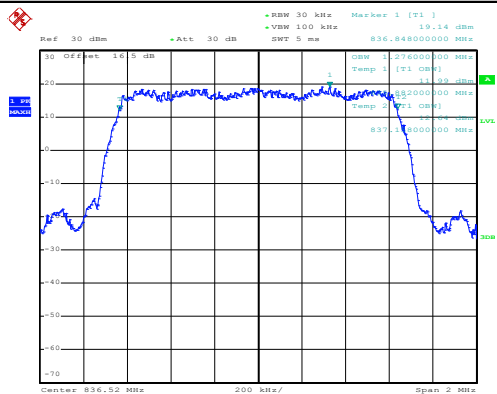
CDMA BC1 (1xEV-DO Rev. A)

Lowest Channel



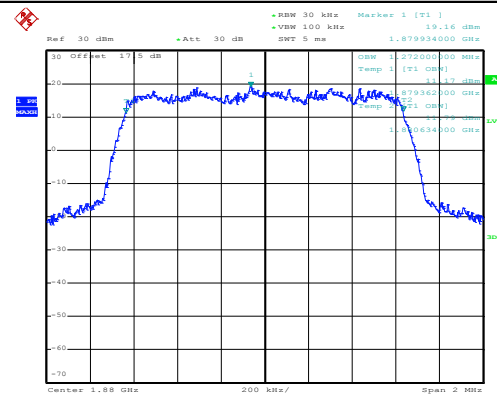
Date: 19.APR.2016 21:07:54

Middle Channel



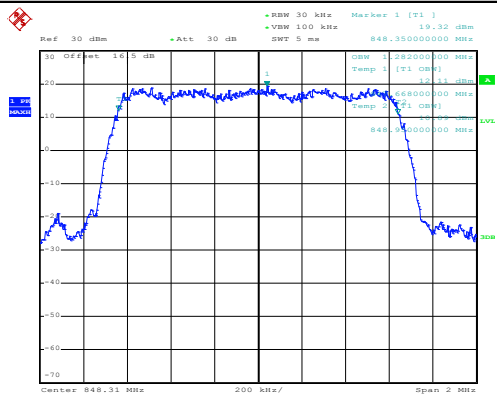
Date: 19.APR.2016 17:53:54

Middle Channel



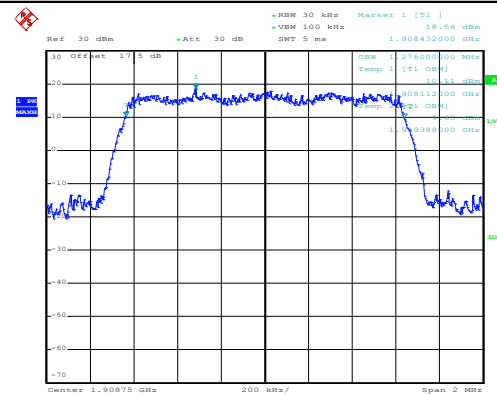
Date: 19.APR.2016 21:08:29

Highest Channel

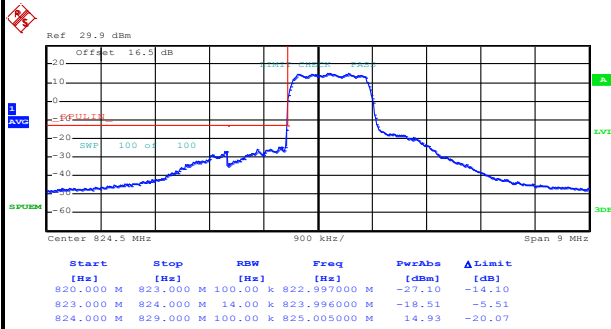


Date: 19.APR.2016 17:54:47

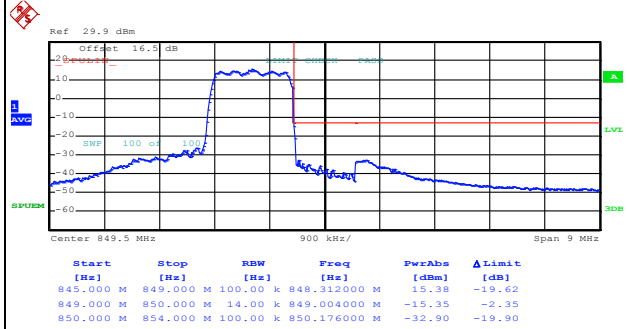
Highest Channel



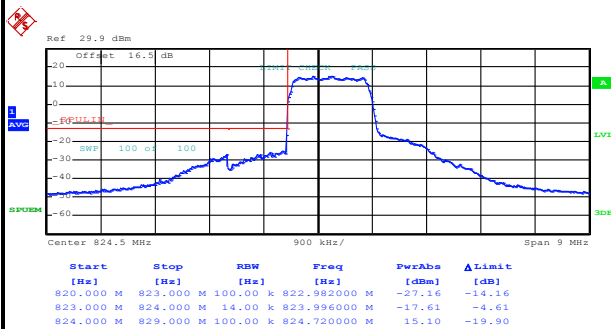
Date: 19.APR.2016 21:09:07

**Conducted Band Edge****CDMA BC0 (1xRTT)****Lowest Band Edge**

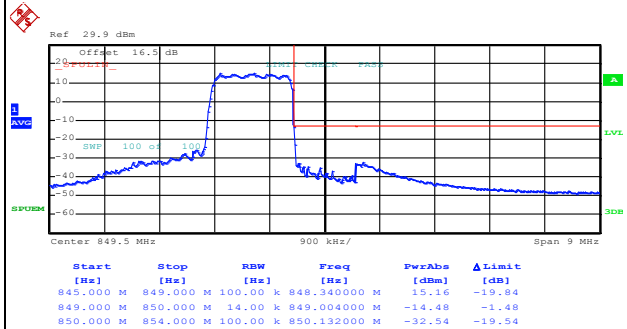
Date: 19.APR.2016 16:45:01

Highest Band Edge

Date: 19.APR.2016 16:47:51

CDMA BC0 (1xEV-DO Rev. 0)**Lowest Band Edge**

Date: 19.APR.2016 18:06:09

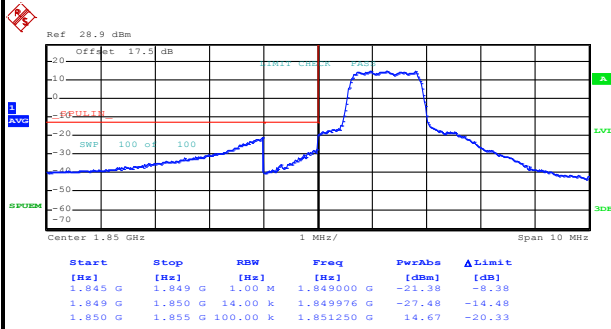
Highest Band Edge

Date: 19.APR.2016 18:09:00



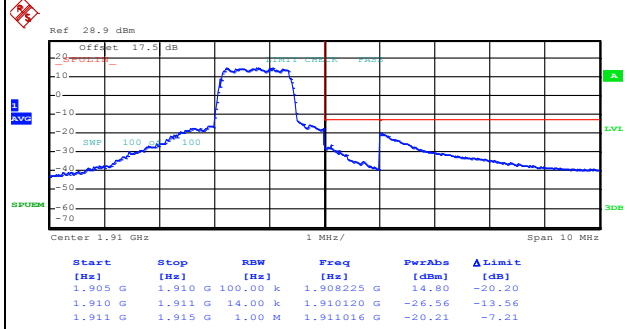
CDMA BC1 (1xRTT)

Lowest Band Edge



Date: 19.APR.2016 20:04:29

Highest Band Edge

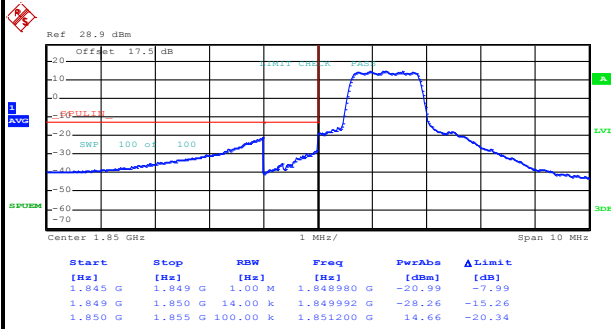


Date: 19.APR.2016 20:07:19



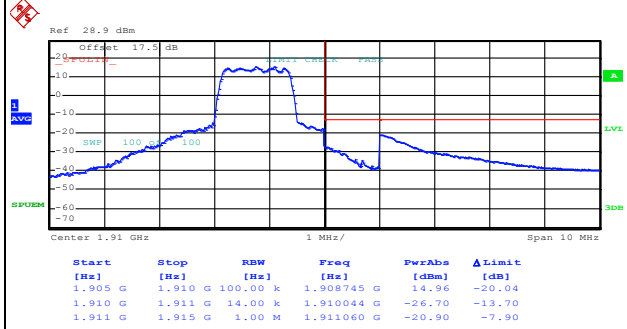
CDMA BC1 (1xEV-DO Rev. A)

Lowest Band Edge



Date: 19.APR.2016 21:19:57

Highest Band Edge



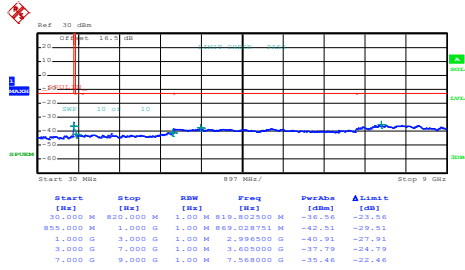
Date: 19.APR.2016 21:30:48

Conducted Spurious Emission

CDMA BC0 (1xRTT)	CDMA BC1 (1xRTT)
Lowest Channel	Lowest Channel

CDMA BC0 (1xEV-DO Rev. 0)

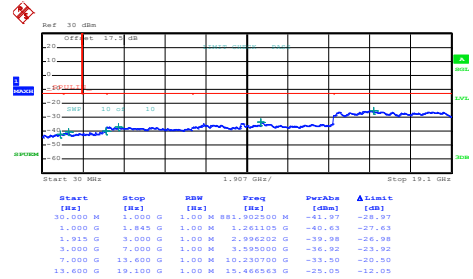
Lowest Channel



Date: 19.APR.2016 17:59:16

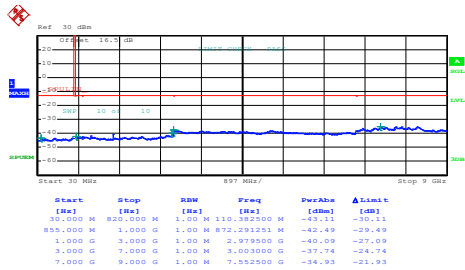
CDMA BC1 (1xEV-DO Rev. A)

Lowest Channel



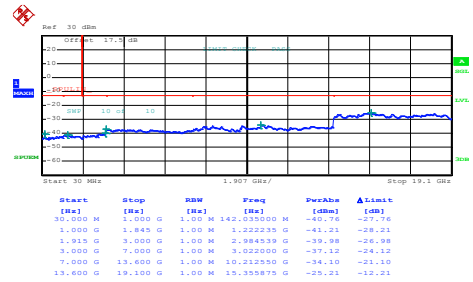
Date: 19.APR.2016 21:11:02

Middle Channel



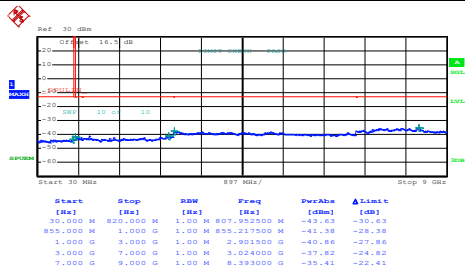
Date: 19.APR.2016 18:00:14

Middle Channel



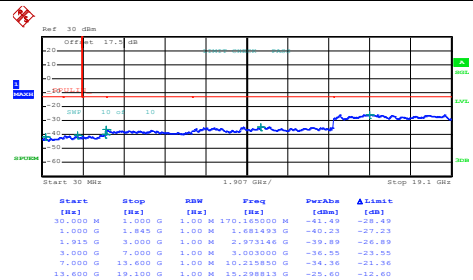
Date: 19.APR.2016 21:11:54

Highest Channel



Date: 19.APR.2016 18:01:12

Highest Channel



Date: 19.APR.2016 21:12:48

Frequency Stability

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm
50	Normal Voltage	0.0263	PASS
40	Normal Voltage	0.0191	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0203	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0215	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0203	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0000	

Note:

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



Test Conditions	Middle Channel	CDMA BC0 (1xEV-DO Rev. 0)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0191	PASS
40	Normal Voltage	0.0179	
30	Normal Voltage	0.0215	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0191	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0203	
20	Maximum Voltage	0.0215	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0203	

Note:

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



Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	CDMA BC1 (1xRTT)	Limit Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0037	
20	Battery End Point	0.0043	

Note:

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



Test Conditions	Middle Channel	CDMA BC1 (1xEV-DO Rev. A)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.8V. ; 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 Radiated Test

ERP/EIRP

GSM850 (GPRS class 8) Radiated Power ERP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-4.25	9.65	0.48	-39.37	30.21	23.81	0.2404
836.4	-4.10	9.69	0.49	-39.42	30.22	23.97	0.2495
848.8	-3.44	9.73	0.50	-39.55	30.32	24.73	0.2972
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-3.35	9.65	0.48	-41.03	31.87	26.37	0.4335
836.4	-2.78	9.69	0.49	-41.09	31.89	26.96	0.4966
848.8	-2.02	9.73	0.50	-41.21	31.98	27.81	0.6039

GSM850 (EDGE class 8) Radiated Power ERP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-12.18	9.65	0.48	-39.29	30.13	15.80	0.0380
836.4	-11.81	9.69	0.49	-39.38	30.18	16.22	0.0419
848.8	-11.50	9.73	0.50	-39.54	30.31	16.66	0.0463
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-11.29	9.65	0.48	-41.09	31.93	18.49	0.0706
836.4	-10.71	9.69	0.49	-41.11	31.91	19.05	0.0804
848.8	-10.15	9.73	0.50	-41.28	32.05	19.75	0.0944

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

S.G. power = 0 (dBm)



WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	-11.41	9.65	0.49	-39.42	30.25	16.69	0.0467
836.4	-11.31	9.69	0.49	-39.48	30.28	16.82	0.0481
846.6	-11.36	9.72	0.50	-39.62	30.39	16.88	0.0488
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	-10.25	9.65	0.49	-41.13	31.96	19.56	0.0904
836.4	-10.29	9.69	0.49	-41.18	31.98	19.54	0.0899
846.6	-10.02	9.72	0.50	-41.29	32.06	19.89	0.0975

CDMA2000 BC0 1xRTT_RC1 SO55 Radiated Power ERP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-11.49	9.65	0.48	-39.32	30.16	16.52	0.0449
836.52	-11.51	9.69	0.49	-39.44	30.24	16.58	0.0455
848.31	-11.57	9.73	0.50	-39.58	30.35	16.63	0.0460
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-10.91	9.65	0.48	-41.08	31.92	18.86	0.0769
836.52	-10.96	9.69	0.49	-41.12	31.92	18.81	0.0760
848.31	-10.73	9.73	0.50	-41.22	31.99	19.11	0.0815

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

S.G. power = 0 (dBm)



CDMA2000 BC0 1xEV-DO Rev. 0_ RTAP 153.6Kbps							
Radiated Power ERP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-10.29	9.65	0.48	-39.28	30.12	17.68	0.0586
836.52	-10.27	9.69	0.49	-39.41	30.21	17.79	0.0601
848.31	-10.50	9.73	0.50	-39.52	30.29	17.64	0.0581
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.70	-11.20	9.65	0.48	-41.04	31.88	18.53	0.0713
836.52	-11.06	9.69	0.49	-41.09	31.89	18.68	0.0738
848.31	-10.98	9.73	0.50	-41.13	31.90	18.77	0.0753

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

S.G. power = 0 (dBm)



GSM1900 (GPRS class 8) Radiated Power EIRP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-20.50	6.35	5.02	-39.12	47.79	27.29	0.5358
1880.0	-20.04	6.40	4.94	-39.51	48.04	28.00	0.6310
1909.8	-19.23	6.46	4.85	-39.83	48.23	29.00	0.7943
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-15.20	6.35	5.02	-35.32	43.99	28.79	0.7568
1880.0	-13.95	6.40	4.94	-35.29	43.82	29.87	0.9705
1909.8	-13.25	6.46	4.85	-35.23	43.63	30.38	1.0914

GSM1900 (EDGE class 8) Radiated Power EIRP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-26.31	6.35	5.02	-39.14	47.81	21.50	0.1413
1880.0	-25.71	6.40	4.94	-39.56	48.09	22.38	0.1730
1909.8	-24.72	6.46	4.85	-39.85	48.25	23.53	0.2254
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-21.01	6.35	5.02	-35.39	44.06	23.05	0.2018
1880.0	-19.58	6.40	4.94	-35.33	43.86	24.28	0.2679
1909.8	-18.59	6.46	4.85	-35.27	43.67	25.08	0.3221

S.G. power = 10 (dBm)



WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	-26.24	6.35	5.01	-39.16	47.82	21.58	0.1439
1880.0	-26.45	6.40	4.94	-39.61	48.14	21.69	0.1476
1907.6	-26.00	6.45	4.86	-39.88	48.29	22.29	0.1694
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	-21.25	6.35	5.01	-35.42	44.08	22.83	0.1919
1880.0	-20.42	6.40	4.94	-35.39	43.92	23.50	0.2239
1907.6	-19.86	6.45	4.86	-35.41	43.82	23.96	0.2489

CDMA2000 BC1 1xRTT_ RC1 SO55 Radiated Power EIRP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-26.63	6.35	5.02	-39.14	47.80	21.17	0.1309
1880.00	-26.94	6.40	4.94	-39.62	48.15	21.21	0.1321
1908.75	-26.57	6.45	4.86	-39.85	48.25	21.68	0.1472
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-21.44	6.35	5.02	-35.39	44.05	22.61	0.1824
1880.00	-20.58	6.40	4.94	-35.31	43.84	23.26	0.2118
1908.75	-20.03	6.45	4.86	-35.46	43.86	23.83	0.2415

S.G. power = 10 (dBm)



CDMA2000 BC1 1xEV-DO Rev. A_ RTAP 153.6Kbps							
Radiated Power EIRP							
Horizontal Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-26.94	6.35	5.02	-39.16	47.82	20.88	0.1225
1880.00	-27.03	6.40	4.94	-39.65	48.18	21.15	0.1303
1908.75	-26.64	6.45	4.86	-39.87	48.27	21.63	0.1455
Vertical Polarization							
Frequency (MHz)	LVL (dBm)	Tx Cable Loss (dB)	Tx ANT Gain (dBi)	SA Reading (dB)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1851.25	-21.96	6.35	5.02	-35.42	44.08	22.12	0.1629
1880.00	-20.78	6.40	4.94	-35.36	43.89	23.11	0.2046
1908.75	-20.20	6.45	4.86	-35.48	43.88	23.68	0.2333

S.G. power = 10 (dBm)

**Radiated Spurious Emission**

GSM850 (GPRS class 8)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1651	-53.48	-13	-40.48	-41.53	-55.23	0.98	4.88	H
	2476	-53.13	-13	-40.13	-46.48	-55.02	1.28	5.33	H
	3298	-65.60	-13	-52.60	-61.11	-69.02	1.54	7.11	H
	1651	-52.87	-13	-39.87	-41.31	-54.62	0.98	4.88	V
	2476	-54.00	-13	-41.00	-47.74	-55.89	1.28	5.33	V
	3298	-65.29	-13	-52.29	-61.19	-68.71	1.54	7.11	V
Middle	1675	-56.55	-13	-43.55	-44.69	-58.22	0.99	4.81	H
	2512	-51.14	-13	-38.14	-44.79	-53.11	1.29	5.41	H
	3346	-65.40	-13	-52.40	-61.03	-69.02	1.56	7.32	H
	1675	-53.65	-13	-40.65	-42.18	-55.32	0.99	4.81	V
	2512	-51.42	-13	-38.42	-45.07	-53.39	1.29	5.41	V
	3346	-65.63	-13	-52.63	-61.14	-69.25	1.56	7.32	V
Highest	1702	-58.04	-13	-45.04	-46.44	-59.62	1.00	4.73	H
	2548	-57.24	-13	-44.24	-50.97	-59.22	1.31	5.44	H
	3394	-65.01	-13	-52.01	-60.87	-68.82	1.57	7.53	H
	1702	-57.54	-13	-44.54	-46.38	-59.12	1.00	4.73	V
	2548	-56.05	-13	-43.05	-50.04	-58.03	1.31	5.44	V
	3394	-65.02	-13	-52.02	-60.9	-68.83	1.57	7.53	V

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



GSM850 (EDGE class 8)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1651	-62.51	-13	-49.51	-50.81	-64.26	0.98	4.88	H
	2476	-64.29	-13	-51.29	-57.66	-66.18	1.28	5.33	H
	3298	-65.70	-13	-52.70	-61.16	-69.12	1.54	7.11	H
	1651	-62.08	-13	-49.08	-50.13	-63.83	0.98	4.88	V
	2476	-61.17	-13	-48.17	-49.66	-63.06	1.28	5.33	V
	3296.8	-65.05	-13	-52.05	-53.54	-68.46	1.54	7.10	V
Middle	1675	-64.35	-13	-51.35	-52.6	-66.02	0.99	4.81	H
	2512	-43.25	-13	-30.25	-37.34	-45.22	1.29	5.41	H
	3346	-65.37	-13	-52.37	-61.02	-68.99	1.56	7.32	H
	1675	-61.44	-13	-48.44	-50.38	-63.11	0.99	4.81	V
	2512	-43.36	-13	-30.36	-37.57	-45.33	1.29	5.41	V
	3345	-65.21	-13	-52.21	-61	-68.82	1.56	7.32	V
Highest	1702	-67.28	-13	-54.28	-56.09	-68.86	1.00	4.73	H
	2551	-64.25	-13	-51.25	-58.2	-66.23	1.31	5.44	H
	3394	-65.02	-13	-52.02	-60.9	-68.83	1.57	7.53	H
	1702	-64.54	-13	-51.54	-52.91	-66.12	1.00	4.73	V
	2548	-63.16	-13	-50.16	-51.9	-65.14	1.31	5.44	V
	3394	-65.06	-13	-52.06	-53.21	-68.87	1.57	7.53	V

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



GSM1900 (GPRS class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-54.31	-13	-41.31	-49.86	-60.88	1.67	8.24	H
	5548	-57.59	-13	-44.59	-60.26	-64.66	2.65	9.72	H
	7403	-55.94	-13	-42.94	-59.96	-65.09	2.46	11.61	H
	9251	-46.61	-13	-33.61	52.96	-56.67	2.54	12.60	H
	11102	-50.25	-13	-37.25	-61.22	-60.02	2.69	12.46	H
	12954	-48.23	-13	-35.23	-61.17	-58.26	2.92	12.94	H
	14807	-56.67	-13	-43.67	-69.49	-66.52	3.52	13.37	H
	16650	-58.88	-13	-45.88	-74.15	-67.33	3.93	12.38	H
	3700	-53.54	-13	-40.54	-49.25	-60.11	1.67	8.24	V
	5548	-60.59	-13	-47.59	-63.09	-67.66	2.65	9.72	V
	7403	-60.96	-13	-47.96	-65.25	-70.11	2.46	11.61	V
	9251	-53.48	-13	-40.48	-60.3	-63.54	2.54	12.60	V
	11102	-55.79	-13	-42.79	-66.68	-65.56	2.69	12.46	V
	12954	-52.18	-13	-39.18	-64.63	-62.21	2.92	12.94	V
	14807	-58.92	-13	-45.92	-71.87	-68.77	3.52	13.37	V
	16650	-58.18	-13	-45.18	-72.96	-66.63	3.93	12.38	V
Middle	3763	-53.38	-13	-40.38	-48.85	-60.01	1.69	8.32	H
	5639	-54.62	-13	-41.62	-57.49	-61.67	2.71	9.76	H
	7522	-53.15	-13	-40.15	-60.33	-62.54	2.42	11.81	H
	9398	-50.75	-13	-37.75	-57.46	-60.72	2.57	12.54	H
	11282	-53.62	-13	-40.62	-65.34	-63.32	2.68	12.39	H
	13163	-50.18	-13	-37.18	-62.94	-60.44	2.97	13.23	H
	16916	-56.01	-13	-43.01	-71.77	-64.82	3.89	12.70	H
	3763	-51.98	-13	-38.98	-47.68	-58.61	1.69	8.32	V
	5639	-58.17	-13	-45.17	-61.13	-65.22	2.71	9.76	V
	7522	-61.94	-13	-48.94	-66.21	-71.33	2.42	11.81	V
	9398	-54.91	-13	-41.91	-61.83	-64.88	2.57	12.54	V
	11282	-57.52	-13	-44.52	-69.2	-67.22	2.68	12.39	V
	13163	-51.62	-13	-38.62	-64	-61.88	2.97	13.23	V
	16916	-59.88	-13	-46.88	-75.56	-68.69	3.89	12.70	V



Highest	3819	-54.65	-13	-41.65	-50.3	-61.33	1.70	8.38	H
	5730	-55.43	-13	-42.43	-58.67	-62.46	2.76	9.79	H
	7641	-59.01	-13	-46.01	-63.67	-68.51	2.38	11.88	H
	9552	-48.46	-13	-35.46	-55.31	-58.33	2.60	12.47	H
	11463	-57.03	-13	-44.03	-69.34	-66.66	2.68	12.31	H
	13372	-45.96	-13	-32.96	-58.54	-56.46	3.02	13.52	H
	17191	-56.63	-13	-43.63	-72.84	-66.11	3.85	13.33	H
	3819	-53.01	-13	-40.01	-48.63	-59.69	1.70	8.38	V
	5730	-60.43	-13	-47.43	-63.8	-67.46	2.76	9.79	V
	7641	-58.09	-13	-45.09	-62.97	-67.59	2.38	11.88	V
	9552	-53.57	-13	-40.57	-60.81	-63.44	2.60	12.47	V
	11463	-58.59	-13	-45.59	-70.85	-68.22	2.68	12.31	V
	13372	-54.05	-13	-41.05	-66.66	-64.55	3.02	13.52	V
	17191	-58.96	-13	-45.96	-75.34	-68.44	3.85	13.33	V

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



GSM1900 (EDGE class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-54.76	-13	-41.76	-50.45	-61.33	1.67	8.24	H
	5548	-60.98	-13	-47.98	-63.53	-68.05	2.65	9.72	H
	7403	-56.87	-13	-43.87	-60.81	-66.02	2.46	11.61	H
	9251	-46.82	-13	-33.82	-53.18	-56.88	2.54	12.60	H
	11102	-52.39	-13	-39.39	-63.46	-62.16	2.69	12.46	H
	12954	-47.29	-13	-34.29	-60.21	-57.32	2.92	12.94	H
	14797	-56.27	-13	-43.27	-69.24	-66.11	3.51	13.36	H
	16650	-57.76	-13	-44.76	-73.15	-66.21	3.93	12.38	H
	3700	-53.45	-13	-40.45	-49.16	-60.02	1.67	8.24	V
	5548	-61.59	-13	-48.59	-64.16	-68.66	2.65	9.72	V
	7403	-61.41	-13	-48.41	-65.69	-70.56	2.46	11.61	V
	9251	-52.48	-13	-39.48	-59.27	-62.54	2.54	12.60	V
	11102	-55.29	-13	-42.29	-66.09	-65.06	2.69	12.46	V
	12954	-51.64	-13	-38.64	-64.09	-61.67	2.92	12.94	V
	14797	-59.04	-13	-46.04	-71.99	-68.88	3.51	13.36	V
	16650	-59.59	-13	-46.59	-74.33	-68.04	3.93	12.38	V
Middle	3763	-52.06	-13	-39.06	-47.67	-58.69	1.69	8.32	H
	5639	-57.87	-13	-44.87	-60.76	-64.92	2.71	9.76	H
	7522	-57.72	-13	-44.72	-61.81	-67.11	2.42	11.81	H
	9398	-53.02	-13	-40.02	-59.81	-62.99	2.57	12.54	H
	11282	-51.32	-13	-38.32	-63.07	-61.02	2.68	12.39	H
	13163	-47.95	-13	-34.95	-60.83	-58.21	2.97	13.23	H
	16916	-56.11	-13	-43.11	-71.84	-64.92	3.89	12.70	H
	3763	-52.76	-13	-39.76	-48.46	-59.39	1.69	8.32	V
	5639	-61.97	-13	-48.97	-64.83	-69.02	2.71	9.76	V
	7522	-62.37	-13	-49.37	-66.8	-71.76	2.42	11.81	V
	9398	-53.95	-13	-40.95	-61.05	-63.92	2.57	12.54	V
	11282	-57.18	-13	-44.18	-68.74	-66.88	2.68	12.39	V
	13163	-53.19	-13	-40.19	-65.73	-63.45	2.97	13.23	V
	16916	-60.01	-13	-47.01	-75.65	-68.82	3.89	12.70	V



Highest	3819	-53.83	-13	-40.83	-49.37	-60.51	1.70	8.38	H
	5730	-52.08	-13	-39.08	-55.48	-59.11	2.76	9.79	H
	7641	-56.21	-13	-43.21	-60.78	-65.71	2.38	11.88	H
	9552	-47.35	-13	-34.35	-54.32	-57.22	2.60	12.47	H
	11463	-57.38	-13	-44.38	-69.58	-67.01	2.68	12.31	H
	13372	-48.09	-13	-35.09	-60.6	-58.59	3.02	13.52	H
	17191	-56.28	-13	-43.28	-72.49	-65.76	3.85	13.33	H
	3819	-53.65	-13	-40.65	-49.23	-60.33	1.70	8.38	V
	5730	-58.13	-13	-45.13	-61.51	-65.16	2.76	9.79	V
	7641	-59.94	-13	-46.94	-64.83	-69.44	2.38	11.88	V
	9552	-53.52	-13	-40.52	-60.76	-63.39	2.60	12.47	V
	11463	-57.81	-13	-44.81	-70.08	-67.44	2.68	12.31	V
	13372	-55.27	-13	-42.27	-67.77	-65.77	3.02	13.52	V
	17191	-59.15	-13	-46.15	-75.55	-68.63	3.85	13.33	V

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



WCDMA Band V (RMC 12.2Kbps)									
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	1654	-70.14	-13	-57.14	-58.07	-71.88	0.98	4.87	H
	2485	-65.89	-13	-52.89	-59.29	-67.81	1.29	5.36	H
	3307	-65.33	-13	-52.33	-61.11	-68.79	1.54	7.15	H
	1654	-68.51	-13	-55.51	-57.29	-70.25	0.98	4.87	V
	2479	-65.21	-13	-52.21	-59.6	-67.11	1.28	5.34	V
	3305.6	-65.44	-13	-52.44	-61.21	-68.89	1.54	7.14	V
Middle	1678	-68.90	-13	-55.90	-57.16	-70.56	0.99	4.80	H
	2515	-65.05	-13	-52.05	-58.82	-67.02	1.30	5.41	H
	3346	-65.11	-13	-52.11	-60.89	-68.73	1.56	7.32	H
	1678	-67.44	-13	-54.44	-56.26	-69.1	0.99	4.80	V
	2512	-65.16	-13	-52.16	-59.22	-67.13	1.29	5.41	V
	3345.6	-64.81	-13	-51.81	-60.82	-68.42	1.56	7.32	V
Highest	1699	-69.44	-13	-56.44	-57.97	-71.03	1.00	4.74	H
	2539	-66.35	-13	-53.35	-60.38	-68.33	1.30	5.43	H
	3385	-64.88	-13	-51.88	-60.85	-68.66	1.57	7.49	H
	1696	-68.62	-13	-55.62	-57.61	-70.22	1.00	4.75	V
	2542	-65.24	-13	-52.24	-59.38	-67.22	1.30	5.43	V
	3386	-64.68	-13	-51.68	-60.88	-68.46	1.57	7.50	V

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



WCDMA Band II (RMC 12.2Kbps)									
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	-53.45	-13	-40.45	-49.04	-60.02	1.67	8.24	H
	5548	-61.94	-13	-48.94	-64.31	-69.01	2.65	9.72	H
	7410	-57.28	-13	-44.28	-61.32	-66.44	2.46	11.62	H
	9265	-50.96	-13	-37.96	-57.27	-61.01	2.54	12.59	H
	3700	-53.02	-13	-40.02	-48.82	-59.59	1.67	8.24	V
	5548	-62.04	-13	-49.04	-64.64	-69.11	2.65	9.72	V
	7410	-60.52	-13	-47.52	-64.72	-69.68	2.46	11.62	V
	9265	-56.28	-13	-43.28	-63.21	-66.33	2.54	12.59	V
Middle	3756	-52.39	-13	-39.39	-47.99	-59.01	1.68	8.31	H
	5632	-62.17	-13	-49.17	-65.055	-69.22	2.70	9.75	H
	7515	-45.51	-13	-32.51	-59.57	-54.89	2.42	11.81	H
	9398	-51.91	-13	-38.91	-58.66	-61.88	2.57	12.54	H
	3756	-51.64	-13	-38.64	-47.34	-58.26	1.68	8.31	V
	5632	-62.06	-13	-49.06	-64.95	-69.11	2.70	9.75	V
	7515	-59.38	-13	-46.38	-63.71	-68.76	2.42	11.81	V
	9398	-55.36	-13	-42.36	-62.5	-65.33	2.57	12.54	V
Highest	3812	-54.34	-13	-41.34	-49.85	-61.01	1.70	8.37	H
	5716	-61.52	-13	-48.52	-64.7	-68.56	2.75	9.79	H
	7627	-57.62	-13	-44.62	-62.17	-67.11	2.39	11.88	H
	9531	-56.04	-13	-43.04	-62.95	-65.93	2.60	12.48	H
	3812	-52.34	-13	-39.34	-47.82	-59.01	1.70	8.37	V
	5716	-61.18	-13	-48.18	-64.51	-68.22	2.75	9.79	V
	7627	-57.28	-13	-44.28	-61.89	-66.77	2.39	11.88	V
	9531	-55.63	-13	-42.63	-62.91	-65.52	2.60	12.48	V

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



CDMA BC0 (1xRTT)									
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	1651	-69.94	-13	-56.94	-57.2	-71.69	0.98	4.88	H
	2474	-67.06	-13	-54.06	-60.09	-68.95	1.28	5.32	H
	3298	-65.97	-13	-52.97	-61.03	-69.39	1.54	7.11	H
	1651	-69.31	-13	-56.31	-57.33	-71.06	0.98	4.88	V
	2474	-66.67	-13	-53.67	-60.12	-68.56	1.28	5.32	V
	3298	-65.79	-13	-52.79	-61.15	-69.21	1.54	7.11	V
Middle	1675	-67.55	-13	-54.55	-56.11	-69.22	0.99	4.81	H
	2512	-66.09	-13	-53.09	-59.63	-68.06	1.29	5.41	H
	3346	-65.26	-13	-52.26	-60.92	-68.88	1.56	7.32	H
	1675	-67.04	-13	-54.04	-55.76	-68.71	0.99	4.81	V
	2512	-65.05	-13	-52.05	-59.42	-67.02	1.29	5.41	V
	3346	-65.10	-13	-52.10	-61.03	-68.72	1.56	7.32	V
Highest	1699	-68.23	-13	-55.23	-56.61	-69.82	1.00	4.74	H
	2548	-65.24	-13	-52.24	-59.24	-67.22	1.31	5.44	H
	3394	-65.11	-13	-52.11	-60.9	-68.92	1.57	7.53	H
	1699	-67.44	-13	-54.44	-56.26	-69.03	1.00	4.74	V
	2548	-64.34	-13	-51.34	-58.81	-66.32	1.31	5.44	V
	3394	-65.01	-13	-52.01	-60.93	-68.82	1.57	7.53	V

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



CDMA BC0 (1xEVDO Rev.0)									
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	1649	-70.66	-13	-57.66	-58.22	-72.41	0.98	4.88	H
	2474	-66.74	-13	-53.74	-59.79	-68.63	1.28	5.32	H
	3298	-65.69	-13	-52.69	-60.72	-69.11	1.54	7.11	H
	1649	-70.18	-13	-57.18	-58.24	-71.93	0.98	4.88	V
	2474	-66.28	-13	-53.28	-59.75	-68.17	1.28	5.32	V
	3298	-65.49	-13	-52.49	-60.88	-68.91	1.54	7.11	V
Middle	1672	-70.24	-13	-57.24	-58.09	-71.92	0.99	4.82	H
	2509	-66.93	-13	-53.93	-60.04	-68.89	1.29	5.41	H
	3345	-65.42	-13	-52.42	-60.69	-69.03	1.56	7.32	H
	1672	-69.97	-13	-56.97	-58.31	-71.65	0.99	4.82	V
	2509	-66.32	-13	-53.32	-59.89	-68.28	1.29	5.41	V
	3345	-65.34	-13	-52.34	-60.8	-68.95	1.56	7.32	V
Highest	1696	-70.67	-13	-57.67	-58.72	-72.27	1.00	4.75	H
	2544	-66.96	-13	-53.96	-60.15	-68.94	1.30	5.44	H
	3393	-65.25	-13	-52.25	-60.73	-69.06	1.57	7.53	H
	1696	-70.24	-13	-57.24	-58.69	-71.84	1.00	4.75	V
	2544	-66.48	-13	-53.48	-60.15	-68.46	1.30	5.44	V
	3393	-65.12	-13	-52.12	-60.63	-68.93	1.57	7.53	V

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



CDMA BC1 (1xRTT)									
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	-50.84	-13	-37.84	-46.59	-57.41	1.67	8.24	H
	5555	-57.81	-13	-44.81	-60.27	-64.88	2.66	9.72	H
	7403	-53.73	-13	-40.73	-57.59	-62.88	2.46	11.61	H
	9258	-45.82	-13	-32.82	-52.36	-55.88	2.54	12.60	H
	12964	-50.98	-13	-37.98	-63.71	-61.02	2.92	12.96	H
	3700	-51.44	-13	-38.44	-47.12	-58.01	1.67	8.24	V
	5555	-59.81	-13	-46.81	-62.31	-66.88	2.66	9.72	V
	7403	-56.18	-13	-43.18	-60.33	-65.33	2.46	11.61	V
	9258	-50.71	-13	-37.71	-57.54	-60.77	2.54	12.60	V
Middle	3763	-49.06	-13	-36.06	-44.6	-55.69	1.69	8.32	H
	5639	-61.97	-13	-48.97	-64.71	-69.02	2.71	9.76	H
	7522	-53.29	-13	-40.29	-57.23	-62.68	2.42	11.81	H
	9398	-46.69	-13	-33.69	-53.34	-56.66	2.57	12.54	H
	13163	-47.85	-13	-34.85	-60.62	-58.11	2.97	13.23	H
	3763	-49.81	-13	-36.81	-45.43	-56.44	1.69	8.32	V
	5639	-59.83	-13	-46.83	-62.78	-66.88	2.71	9.76	V
	7522	-55.38	-13	-42.38	-59.65	-64.77	2.42	11.81	V
	9398	-50.89	-13	-37.89	-58.07	-60.86	2.57	12.54	V
	13163	-52.95	-13	-39.95	-65.55	-63.21	2.97	13.23	V
Highest	3819	-49.51	-13	-36.51	-45.14	-56.19	1.70	8.38	H
	5730	-60.52	-13	-47.52	-63.9	-67.55	2.76	9.79	H
	7634	-52.28	-13	-39.28	-56.67	-61.77	2.39	11.88	H
	9545	-49.01	-13	-36.01	-55.8	-58.88	2.60	12.47	H
	13363	-51.73	-13	-38.73	-64.35	-62.22	3.02	13.51	H
	3819	-51.24	-13	-38.24	-46.76	-57.92	1.70	8.38	V
	5730	-58.97	-13	-45.97	-62.47	-66	2.76	9.79	V
	7634	-53.73	-13	-40.73	-58.38	-63.22	2.39	11.88	V
	9545	-52.05	-13	-39.05	-59.23	-61.92	2.60	12.47	V
	13363	-56.53	-13	-43.53	-69.1	-67.02	3.02	13.51	V

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



CDMA BC1 (1xEVDO Rev.A)									
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	-64.21	-13	-51.21	-59.84	-70.79	1.67	8.25	H
	5557	-61.72	-13	-48.72	-64.2	-68.78	2.66	9.72	H
	7409	-62.13	-13	-49.13	-66.16	-71.29	2.46	11.62	H
	3707	-64.11	-13	-51.11	-59.81	-70.69	1.67	8.25	V
	5557	-61.75	-13	-48.75	-64.21	-68.81	2.66	9.72	V
	7409	-62.08	-13	-49.08	-66.23	-71.24	2.46	11.62	V
Middle	3763	-63.96	-13	-50.96	-59.66	-70.59	1.69	8.32	H
	5639	-62.34	-13	-49.34	-65.26	-69.39	2.71	9.76	H
	7520	-62.97	-13	-49.97	-67.09	-72.36	2.42	11.81	H
	3763	-63.81	-13	-50.81	-59.39	-70.44	1.69	8.32	V
	5639	-62.41	-13	-49.41	-65.3	-69.46	2.71	9.76	V
	7520	-62.49	-13	-49.49	-66.84	-71.88	2.42	11.81	V
Highest	3819	-64.51	-13	-51.51	-60.07	-71.19	1.70	8.38	H
	5726	-61.64	-13	-48.64	-64.92	-68.68	2.76	9.79	H
	7635	-62.38	-13	-49.38	-66.77	-71.88	2.39	11.88	H
	3819	-64.54	-13	-51.54	-60.2	-71.22	1.70	8.38	V
	5726	-61.32	-13	-48.32	-64.79	-68.36	2.76	9.79	V
	7635	-61.89	-13	-48.89	-66.62	-71.39	2.39	11.88	V

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