

FCC RF Test Report

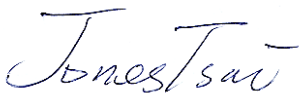
APPLICANT : Motorola Mobility LLC.
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 7383
FCC ID : IHDT56VD4
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 10, 2016 and testing was completed on Jun. 01, 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
FG651006A	Rev. 01	Initial issue of report	Jun. 03, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.4	§90.635	Conducted Output Power	<100W	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049 §22.917(b) §24.238(b) §27.53(g)	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	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 §27.54		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	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 25.16 dB at 9258.000 MHz



1 General Description

1.1 Applicant

Motorola Mobility LLC.

222 W. Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC.

222 W. Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	7383
FCC ID	IHDT56VD4
IMEI Code	354140070005042
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/FM WLAN 11b/g/n HT20 Bluetooth v3.0 EDR Bluetooth v4.1 LE
HW Version	DVT2-A
SW Version	fastboot_harpia_oem_userdebug_6.0.1_MPI24.223_2173_i ntcfg-test-keys_oem.tar.gz
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 1	Brand Name : Motorola
	Model Name : SPN5945A
AC Adapter 2	Brand Name : Motorola
	Model Name : SPN5838A
Battery 1	Brand Name : Motorola
	Model Name : SNN5976A
Battery 2	Brand Name : Motorola
	Model Name : SNN5977A
Earphone	Brand Name : Motorola
	Model Name : SJYN1181B
USB Cable	Brand Name : Motorola
	Model Name : SKN6462A

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 Band IV: 1712.4 MHz ~ 1752.6 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 Band IV: 2112.4 MHz ~ 2152.6 MHz CDMA2000: BC0: 869.70 MHz ~ 893.31 MHz BC1: 1931.25 MHz ~ 1988.75 MHz
Maximum Output Power to Antenna	GSM/GPRS/EDGE: 850: 32.53 dBm 1900: 30.36 dBm WCDMA: Band V: 22.70 dBm Band II: 23.22 dBm Band IV: 22.80 dBm CDMA2000: BC0: 23.73 dBm BC1: 24.00 dBm
Antenna Type	PIFA Antenna (The antenna peak gain of EUT is less than 6 dBi)
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	1.0023	0.0036 ppm	247KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.2275	0.0036 ppm	246KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.1156	0.0155 ppm	4M16F9W
Part 22	CDMA2000 BC0 1xEV-DO Rev. A	QPSK	0.1178	0.0323 ppm	1M28F9W
Part 24	GSM1900 GPRS class 8	GMSK	1.0641	0.0027 ppm	246KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.4305	0.0043 ppm	246KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.2118	0.0064 ppm	4M18F9W
Part 24	CDMA2000 BC1 1xEV-DO Rev. A	QPSK	0.2761	0.0239 ppm	1M29F9W
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.2183	0.0075 ppm	4M17F9W

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

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

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), 27(L)
- 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 18000 MHz for WCDMA Band IV.
3. 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
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
CDMA BC0	■ 1xEV-DO Rev. A Link	■ 1xEV-DO Rev. A Link
CDMA BC1	■ 1xEV-DO Rev. A Link	■ 1xEV-DO Rev. A Link

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM or GPRS multi-slot class 8 mode for GMSK modulation,

EDGE multi-slot class 8 mode for 8PSK modulation,

RMC 12.2Kbps mode for WCDMA band V,

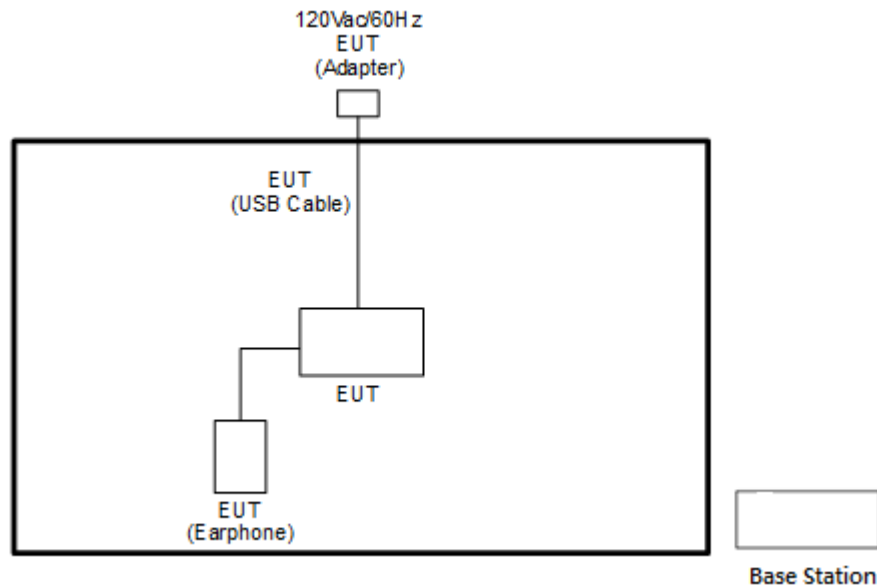
RMC 12.2Kbps mode for WCDMA band II,

1xEV-DO Rev. 0 RETAP 4096Bits mode for CDMA2000 BC0,

1xEV-DO Rev. 0 RETAP 4096Bits mode for CDMA2000 BC1

only these modes were used for all tests. In addition to above worst-case test, below investigating on all data rates, and all modes are compliance with each FCC test case which has specific test limits. For spurious emissions at antenna port, the EUT was investigated the band edges on low and high channels, and the unwanted spurious emissions on middle channel for all modes, the results are pass, then only the worst-results were reported in the test report. The Radiated Spurious emissions for CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSDPA modes were investigated on the middle channel and the passed results were not worst than those data tested from the highest power channels.

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 :

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

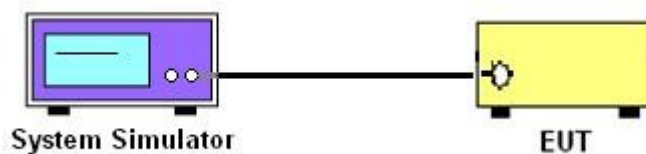
3 Conducted Test Result

3.1 Measuring Instruments

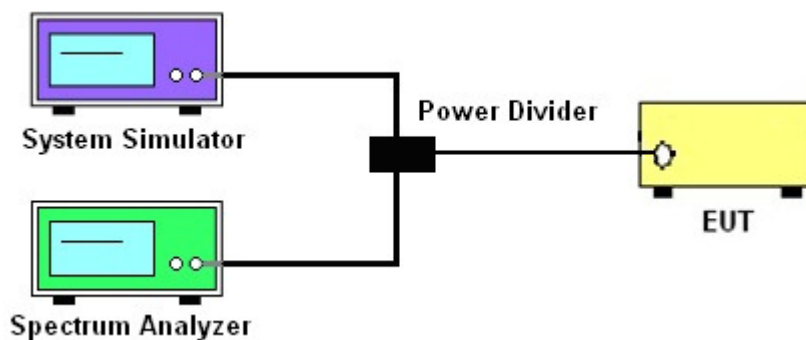
See list of measuring instruments of this test report.

3.2 Test Setup

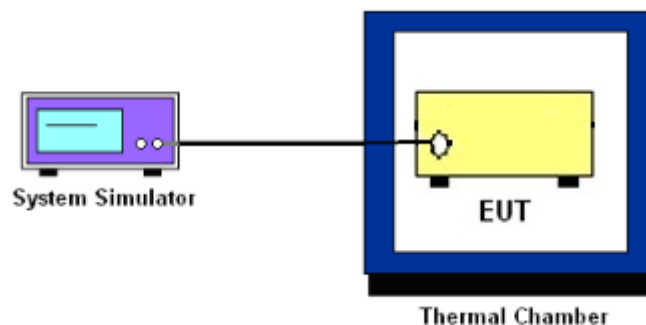
3.2.1 Conducted Output Power



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)
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= -13\text{dBm}.$$

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.

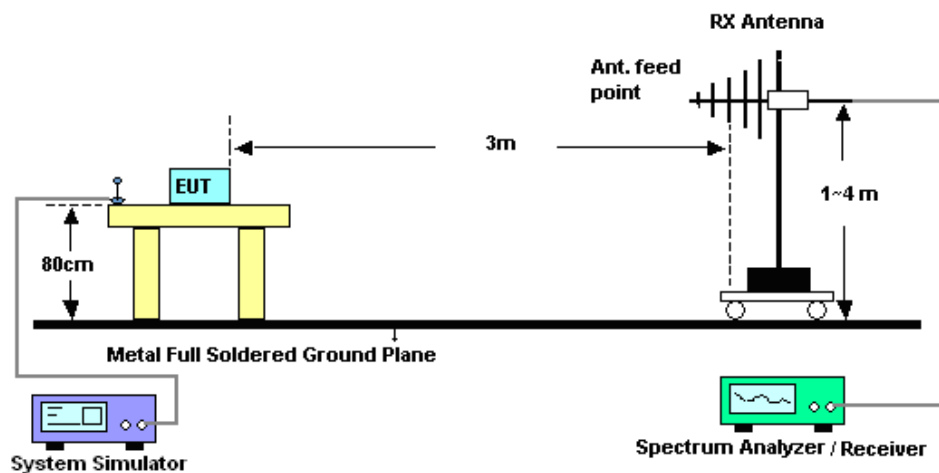
4 Radiated Test Items

4.1 Measuring Instruments

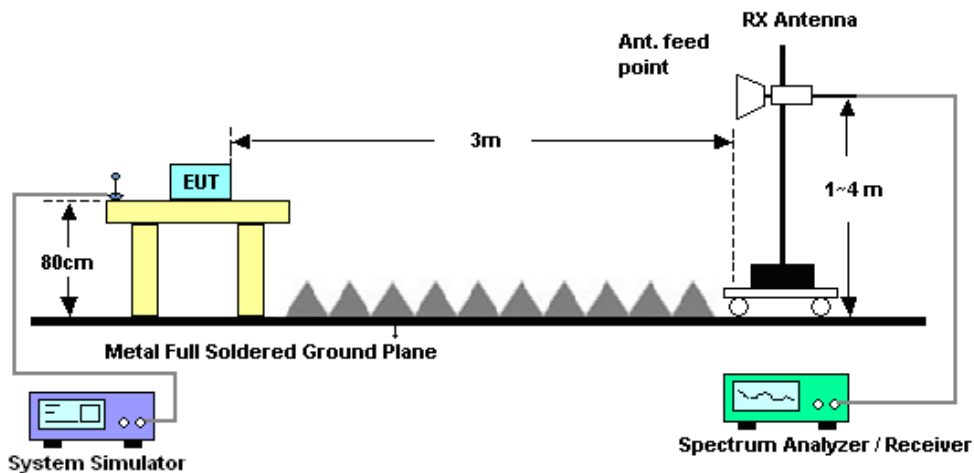
See list of measuring instruments of this test report.

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) and 1 Watts (AWS 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 high 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 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	May 21, 2016 ~ May 25, 2016	Jun. 23, 2016	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 20, 2015	May 21, 2016 ~ May 25, 2016	Nov. 19, 2016	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL883644	Voltage:0~20V;Current:0~5A	Nov. 26, 2015	May 21, 2016 ~ May 25, 2016	Nov. 25, 2016	Conducted (TH03-HY)
Base Station(Measu	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 26, 2015	May 21, 2016 ~ May 25, 2016	Jul. 25, 2016	Conducted (TH03-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	May 20, 2016 ~ Jun. 01, 2016	Nov. 16, 2016	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	May 20, 2016 ~ Jun. 01, 2016	Oct. 07, 2016	Radiation (03CH12-HY)
Amplifier	Sonoma-Instrument	310 N	187282	10MHz~1GHz	Dec. 31, 2015	May 20, 2016 ~ Jun. 01, 2016	Dec. 30, 2016	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D	40103	30MHz to 1GHz	Jan. 13, 2016	May 20, 2016 ~ Jun. 01, 2016	Jan. 12, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 10, 2016	May 20, 2016 ~ Jun. 01, 2016	Mar. 09, 2017	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz ~ 18GHz	Apr. 25, 2016	May 20, 2016 ~ Jun. 01, 2016	Apr. 24, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	May 20, 2016 ~ Jun. 01, 2016	Feb. 14, 2017	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Jan. 30, 2016	May 20, 2016 ~ Jun. 01, 2016	Jan. 29, 2017	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	N/A	Mar. 14, 2016	May 20, 2016 ~ Jun. 01, 2016	Mar. 13, 2017	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Oct. 12, 2015	May 20, 2016 ~ Jun. 01, 2016	Oct. 11, 2016	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 19, 2016	May 20, 2016 ~ Jun. 01, 2016	May 18, 2017	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	May 20, 2016 ~ Jun. 01, 2016	Nov. 01, 2016	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% ($U = 2Uc(y)$)	4.70
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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	32.50	32.49	32.04	30.29	29.85	30.34
GPRS class 8	32.53	32.51	32.05	30.32	29.88	30.36
GPRS class 10	30.15	30.17	30.06	27.60	27.40	27.60
GPRS class 11	29.05	28.88	28.59	25.81	25.70	25.83
GPRS class 12	27.10	26.90	26.89	24.46	24.31	24.40
EGPRS class 8	26.46	26.25	26.19	25.80	25.62	25.77
EGPRS class 10	24.86	24.66	24.61	23.16	22.95	23.12
EGPRS class 11	22.60	22.35	22.35	22.42	22.22	22.35
EGPRS class 12	21.54	21.37	21.30	21.02	20.83	20.90

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
RMC 12.2K	22.69	22.70	22.55	23.22	22.72	23.00	22.80	22.73	22.68
HSDPA Subtest-1	21.77	21.64	21.50	22.28	21.91	22.10	21.87	21.75	21.83
HSDPA Subtest-2	21.39	21.60	21.64	22.24	21.83	22.12	21.89	21.84	21.92
HSDPA Subtest-3	21.20	21.05	21.13	21.00	21.40	21.67	21.24	21.25	21.20
HSDPA Subtest-4	21.16	21.50	21.10	21.28	21.35	21.58	21.30	21.31	21.28
HSUPA Subtest-1	21.31	21.02	21.06	21.28	21.51	21.38	21.31	21.90	21.37
HSUPA Subtest-2	20.81	20.60	20.56	20.21	20.50	20.34	20.51	20.76	20.68
HSUPA Subtest-3	20.46	20.20	20.18	20.14	20.18	20.08	20.16	20.23	20.20
HSUPA Subtest-4	20.79	20.85	20.81	20.98	20.99	21.00	20.86	20.87	20.78
HSUPA Subtest-5	21.60	21.59	21.54	21.99	21.93	22.10	21.90	21.88	21.86

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	23.65	23.45	23.40	23.90	23.65	24.00
1xRTT RC3 SO55	23.62	23.43	23.35	23.92	23.60	23.99
1xRTT RC3 SO32 (+ F-SCH)	23.65	23.46	23.35	23.94	23.56	23.98
1xRTT RC3 SO32 (+SCH)	23.64	23.44	23.38	23.95	23.58	23.99
1xEVDO RTAP 153.6Kbps	23.70	23.45	23.32	23.89	23.61	23.89
1xEVDO RETAP 4096Bits	23.73	23.42	23.38	23.98	23.63	24.00

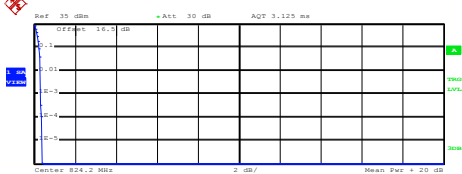
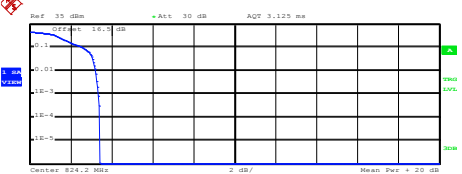
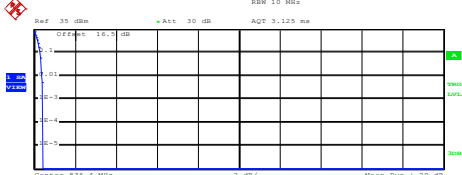
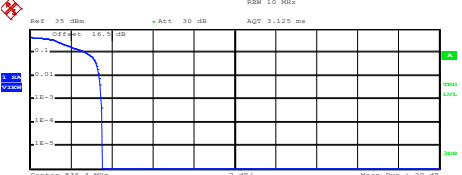
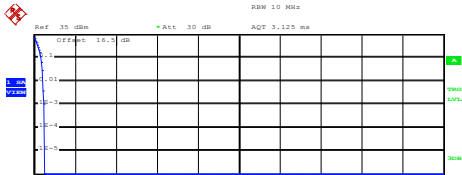
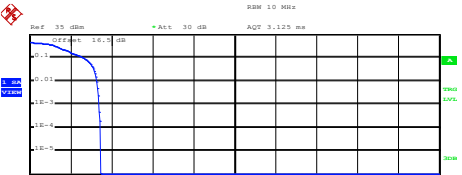


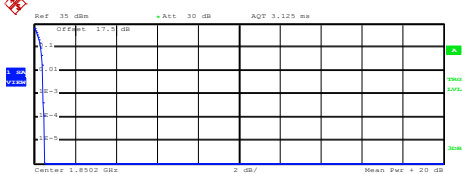
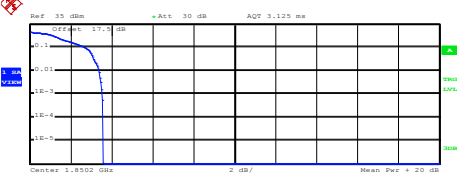
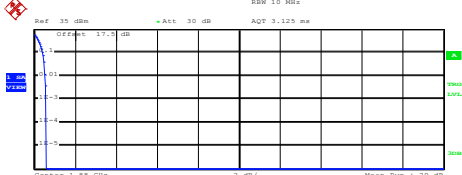
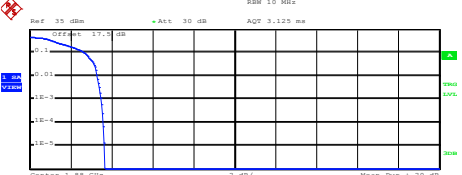
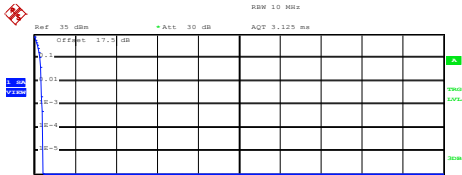
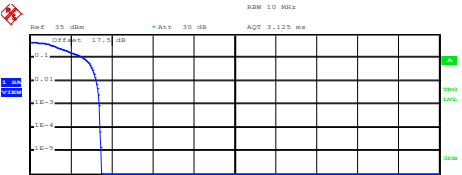
A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.32	3.36	PASS
Middle CH	0.44	3.48	
Highest CH	0.48	3.40	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.44	3.56	PASS
Middle CH	0.60	3.48	
Highest CH	0.40	3.40	

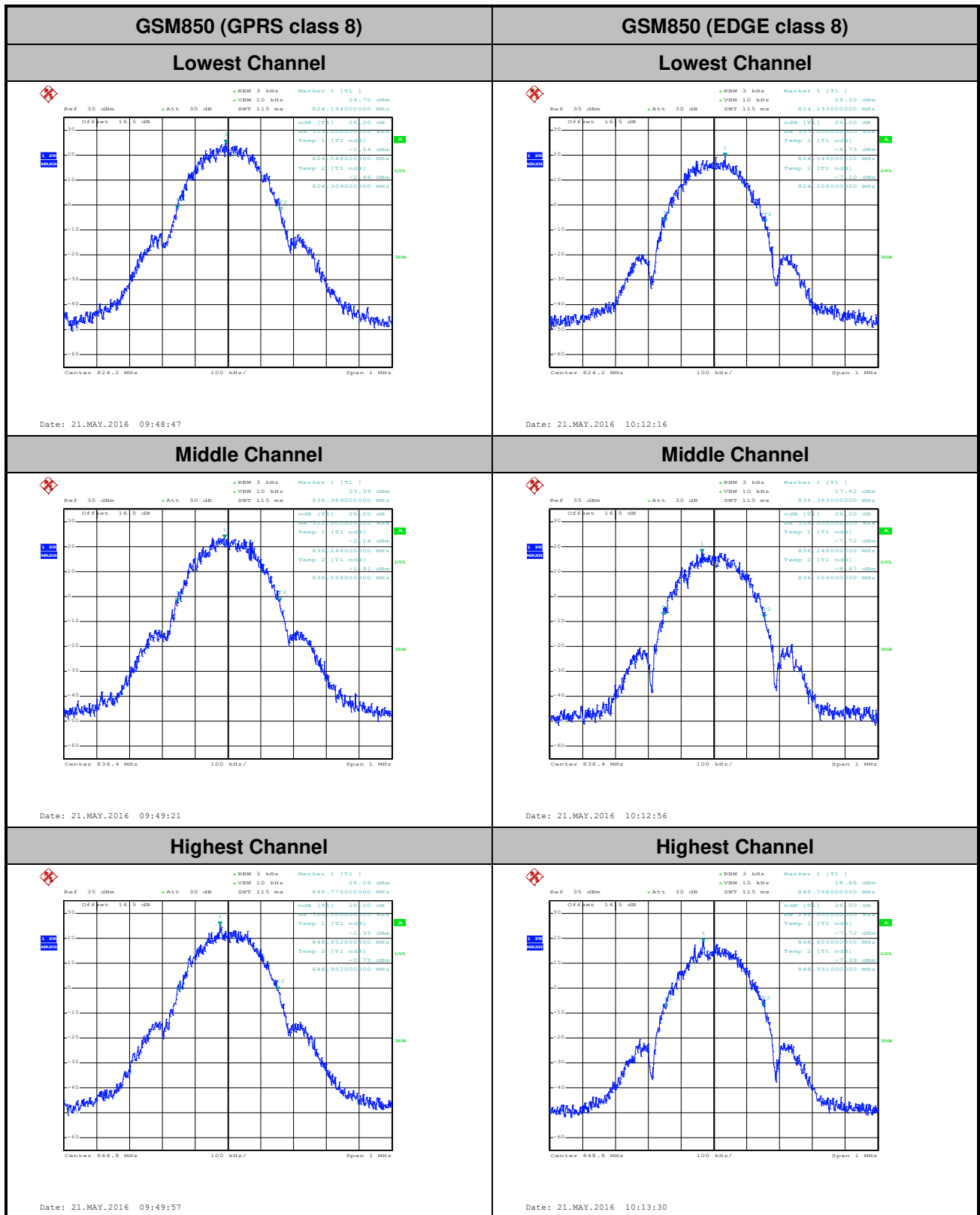
GSM850 (GPRS class 8)	GSM850 (EDGE class 8)
Lowest Channel	Lowest Channel
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz Center: 824.2 MHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 32.83 dBm Peak: 33.21 dBm Crest: 0.38 dB 10 %: 0.24 dB 1 %: 0.32 dB .1 %: 0.32 dB .01 %: 0.36 dB Date: 21.MAY.2016 09:57:45	 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz Center: 824.2 MHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 26.40 dBm Peak: 29.82 dBm Crest: 3.42 dB 10 %: 2.60 dB 1 %: 3.20 dB .1 %: 3.36 dB .01 %: 3.44 dB Date: 21.MAY.2016 10:29:18
Middle Channel	Middle Channel
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz Center: 835.4 MHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 31.94 dBm Peak: 32.36 dBm Crest: 0.42 dB 10 %: 0.28 dB 1 %: 0.36 dB .1 %: 0.44 dB .01 %: 0.44 dB Date: 21.MAY.2016 09:58:04	 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz Center: 835.4 MHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 25.58 dBm Peak: 29.12 dBm Crest: 3.54 dB 10 %: 2.76 dB 1 %: 3.40 dB .1 %: 3.48 dB .01 %: 3.56 dB Date: 21.MAY.2016 10:29:39
Highest Channel	Highest Channel
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz Center: 848.8 MHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 31.58 dBm Peak: 32.08 dBm Crest: 0.49 dB 10 %: 0.32 dB 1 %: 0.44 dB .1 %: 0.48 dB .01 %: 0.52 dB Date: 21.MAY.2016 09:58:27	 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz Center: 848.8 MHz, 2 dB/ Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 25.09 dBm Peak: 28.55 dBm Crest: 3.46 dB 10 %: 2.64 dB 1 %: 3.28 dB .1 %: 3.40 dB .01 %: 3.48 dB Date: 21.MAY.2016 10:30:04

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 <table border="1"> <tr><td>Mean</td><td>30.10 dBm</td></tr> <tr><td>Peak</td><td>30.60 dBm</td></tr> <tr><td>Crest</td><td>0.49 dB</td></tr> <tr><td>10 %</td><td>0.32 dB</td></tr> <tr><td>1 %</td><td>0.40 dB</td></tr> <tr><td>.1 %</td><td>0.44 dB</td></tr> <tr><td>.01 %</td><td>0.48 dB</td></tr> </table> Date: 21.MAY.2016 11:04:34	Mean	30.10 dBm	Peak	30.60 dBm	Crest	0.49 dB	10 %	0.32 dB	1 %	0.40 dB	.1 %	0.44 dB	.01 %	0.48 dB	 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 <table border="1"> <tr><td>Mean</td><td>25.61 dBm</td></tr> <tr><td>Peak</td><td>29.19 dBm</td></tr> <tr><td>Crest</td><td>3.58 dB</td></tr> <tr><td>10 %</td><td>2.72 dB</td></tr> <tr><td>1 %</td><td>3.40 dB</td></tr> <tr><td>.1 %</td><td>3.56 dB</td></tr> <tr><td>.01 %</td><td>3.60 dB</td></tr> </table> Date: 21.MAY.2016 11:23:29	Mean	25.61 dBm	Peak	29.19 dBm	Crest	3.58 dB	10 %	2.72 dB	1 %	3.40 dB	.1 %	3.56 dB	.01 %	3.60 dB
Mean	30.10 dBm																												
Peak	30.60 dBm																												
Crest	0.49 dB																												
10 %	0.32 dB																												
1 %	0.40 dB																												
.1 %	0.44 dB																												
.01 %	0.48 dB																												
Mean	25.61 dBm																												
Peak	29.19 dBm																												
Crest	3.58 dB																												
10 %	2.72 dB																												
1 %	3.40 dB																												
.1 %	3.56 dB																												
.01 %	3.60 dB																												
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 <table border="1"> <tr><td>Mean</td><td>29.24 dBm</td></tr> <tr><td>Peak</td><td>29.82 dBm</td></tr> <tr><td>Crest</td><td>0.58 dB</td></tr> <tr><td>10 %</td><td>0.40 dB</td></tr> <tr><td>1 %</td><td>0.52 dB</td></tr> <tr><td>.1 %</td><td>0.60 dB</td></tr> <tr><td>.01 %</td><td>0.60 dB</td></tr> </table> Date: 21.MAY.2016 11:04:53	Mean	29.24 dBm	Peak	29.82 dBm	Crest	0.58 dB	10 %	0.40 dB	1 %	0.52 dB	.1 %	0.60 dB	.01 %	0.60 dB	 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 <table border="1"> <tr><td>Mean</td><td>24.77 dBm</td></tr> <tr><td>Peak</td><td>28.41 dBm</td></tr> <tr><td>Crest</td><td>3.64 dB</td></tr> <tr><td>10 %</td><td>2.68 dB</td></tr> <tr><td>1 %</td><td>3.28 dB</td></tr> <tr><td>.1 %</td><td>3.48 dB</td></tr> <tr><td>.01 %</td><td>3.60 dB</td></tr> </table> Date: 21.MAY.2016 11:23:52	Mean	24.77 dBm	Peak	28.41 dBm	Crest	3.64 dB	10 %	2.68 dB	1 %	3.28 dB	.1 %	3.48 dB	.01 %	3.60 dB
Mean	29.24 dBm																												
Peak	29.82 dBm																												
Crest	0.58 dB																												
10 %	0.40 dB																												
1 %	0.52 dB																												
.1 %	0.60 dB																												
.01 %	0.60 dB																												
Mean	24.77 dBm																												
Peak	28.41 dBm																												
Crest	3.64 dB																												
10 %	2.68 dB																												
1 %	3.28 dB																												
.1 %	3.48 dB																												
.01 %	3.60 dB																												
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 <table border="1"> <tr><td>Mean</td><td>29.55 dBm</td></tr> <tr><td>Peak</td><td>29.96 dBm</td></tr> <tr><td>Crest</td><td>0.41 dB</td></tr> <tr><td>10 %</td><td>0.28 dB</td></tr> <tr><td>1 %</td><td>0.36 dB</td></tr> <tr><td>.1 %</td><td>0.40 dB</td></tr> <tr><td>.01 %</td><td>0.44 dB</td></tr> </table> Date: 21.MAY.2016 11:05:10	Mean	29.55 dBm	Peak	29.96 dBm	Crest	0.41 dB	10 %	0.28 dB	1 %	0.36 dB	.1 %	0.40 dB	.01 %	0.44 dB	 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 <table border="1"> <tr><td>Mean</td><td>25.07 dBm</td></tr> <tr><td>Peak</td><td>28.55 dBm</td></tr> <tr><td>Crest</td><td>3.48 dB</td></tr> <tr><td>10 %</td><td>2.60 dB</td></tr> <tr><td>1 %</td><td>3.24 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> Date: 21.MAY.2016 11:24:13	Mean	25.07 dBm	Peak	28.55 dBm	Crest	3.48 dB	10 %	2.60 dB	1 %	3.24 dB	.1 %	3.40 dB	.01 %	3.44 dB
Mean	29.55 dBm																												
Peak	29.96 dBm																												
Crest	0.41 dB																												
10 %	0.28 dB																												
1 %	0.36 dB																												
.1 %	0.40 dB																												
.01 %	0.44 dB																												
Mean	25.07 dBm																												
Peak	28.55 dBm																												
Crest	3.48 dB																												
10 %	2.60 dB																												
1 %	3.24 dB																												
.1 %	3.40 dB																												
.01 %	3.44 dB																												

**26dB Bandwidth**

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.313	0.307
Middle CH	0.312	0.308
Highest CH	0.300	0.298

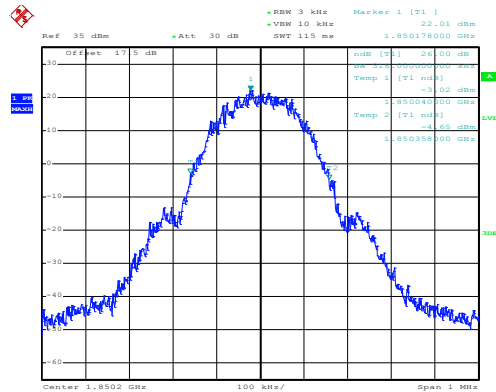
Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.318	0.307
Middle CH	0.314	0.309
Highest CH	0.312	0.305





GSM1900 (GPRS class 8)

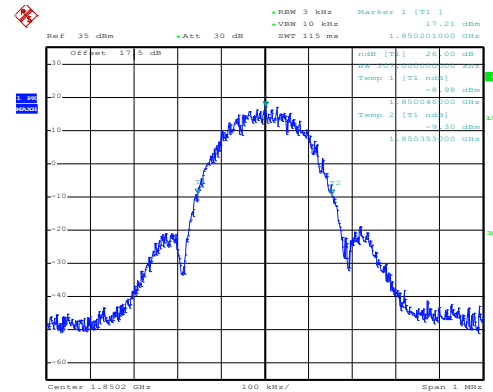
Lowest Channel



Date: 21.MAY.2016 10:55:28

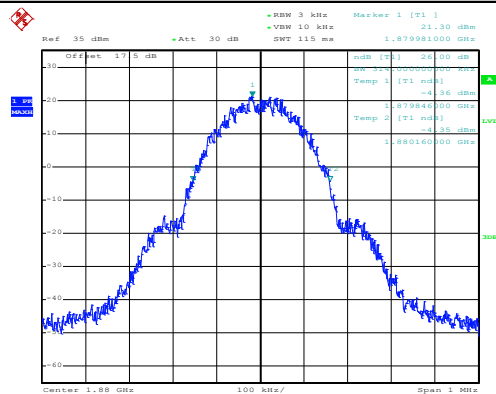
GSM1900 (EDGE class 8)

Lowest Channel



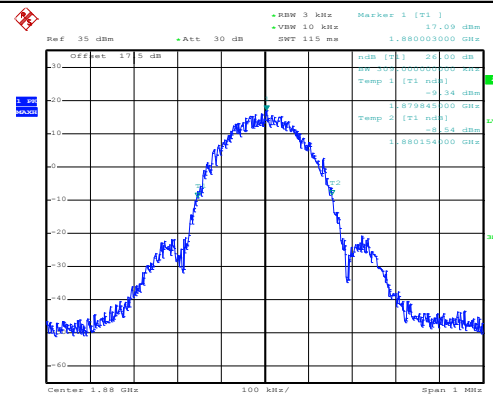
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Middle Channel



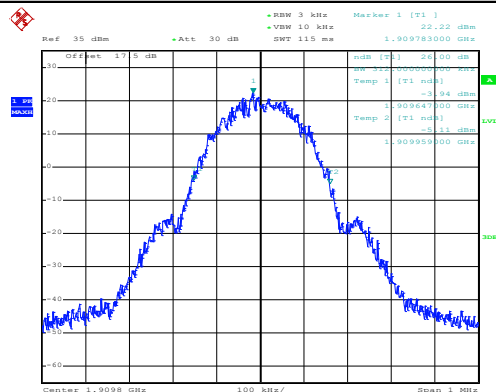
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Middle Channel



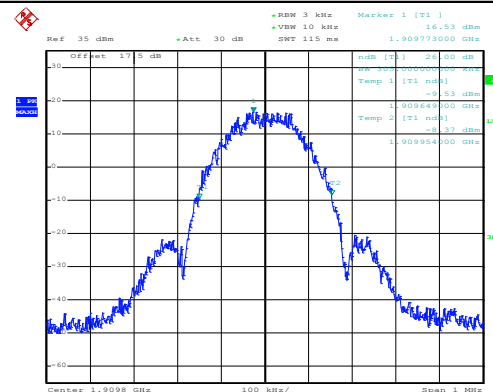
Date: 21.MAY.2016 11:16:47

Highest Channel



Date: 21.MAY.2016 10:56:45

Highest Channel



Date: 21.MAY.2016 11:17:21

**Occupied Bandwidth**

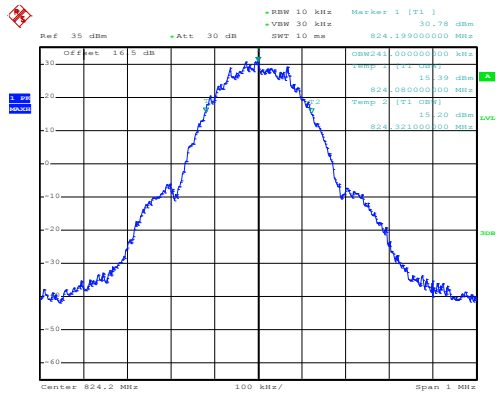
Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.241	0.243
Middle CH	0.245	0.245
Highest CH	0.247	0.246

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.245	0.242
Middle CH	0.246	0.246
Highest CH	0.245	0.243



GSM850 (GPRS class 8)

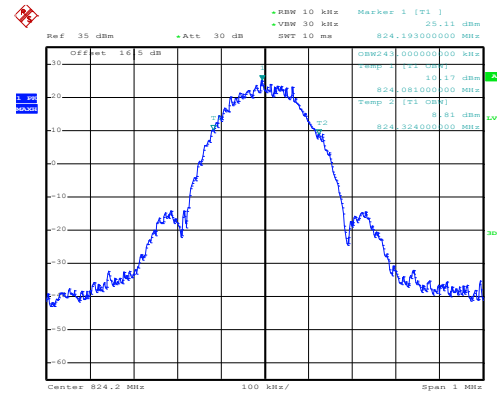
Lowest Channel



Date: 21.MAY.2016 09:51:17

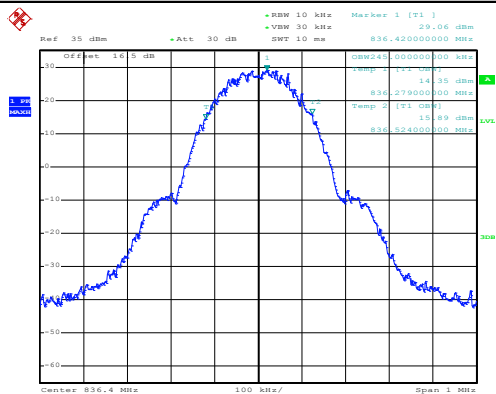
GSM850 (EDGE class 8)

Lowest Channel



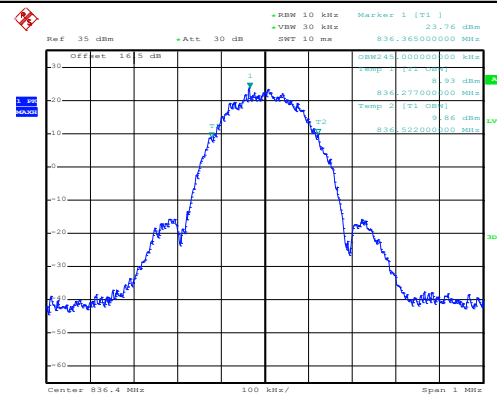
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Middle Channel



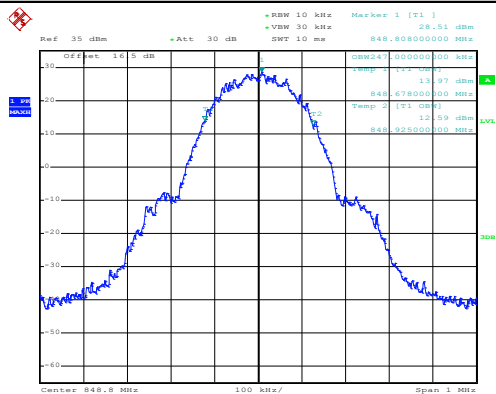
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Middle Channel



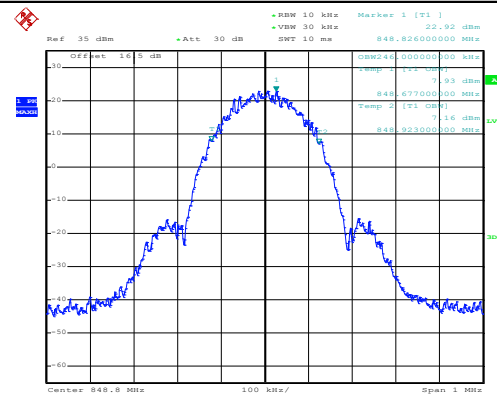
Date: 21.MAY.2016 10:18:13

Highest Channel

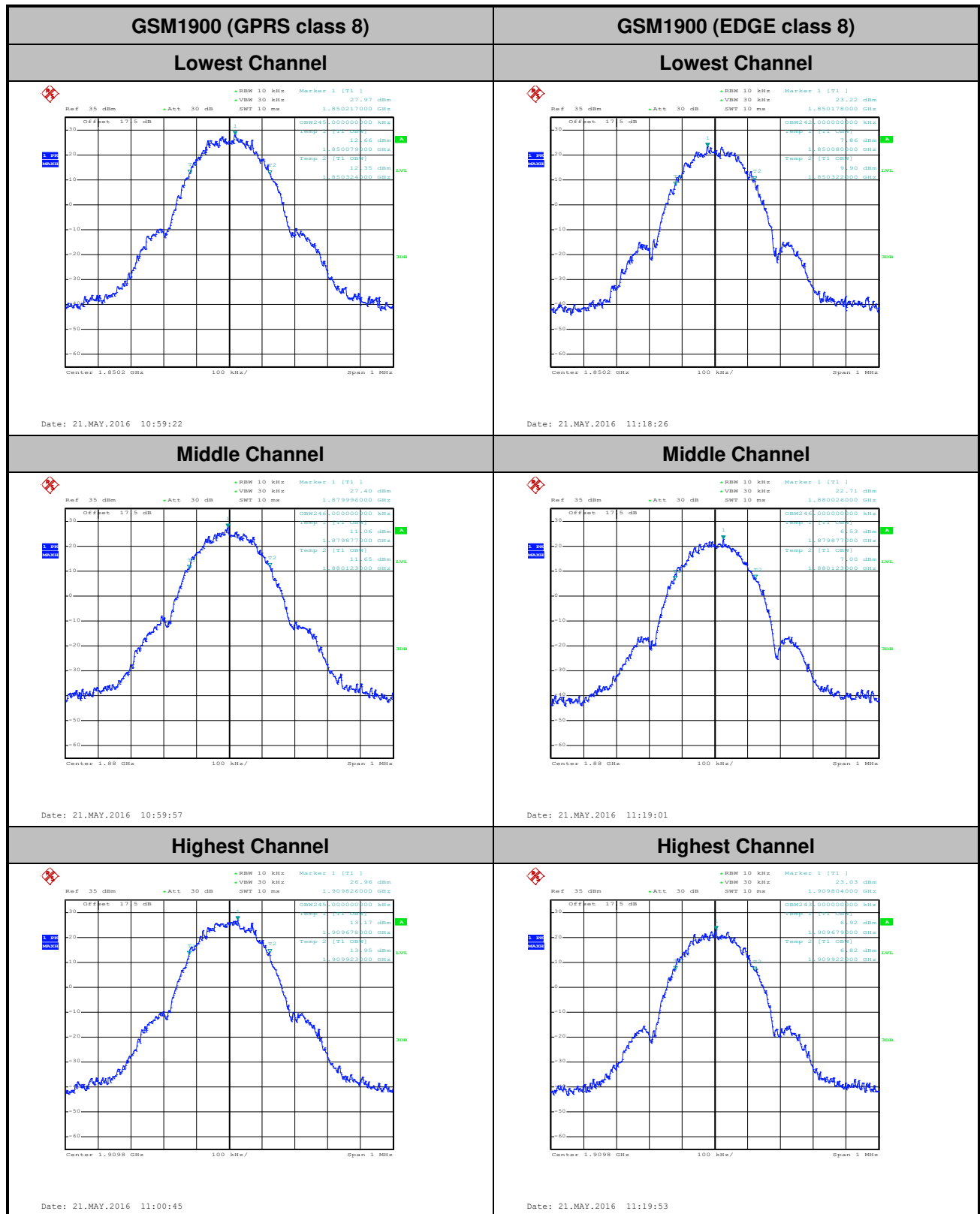


Date: 21.MAY.2016 09:52:31

Highest Channel



Date: 21.MAY.2016 10:19:12



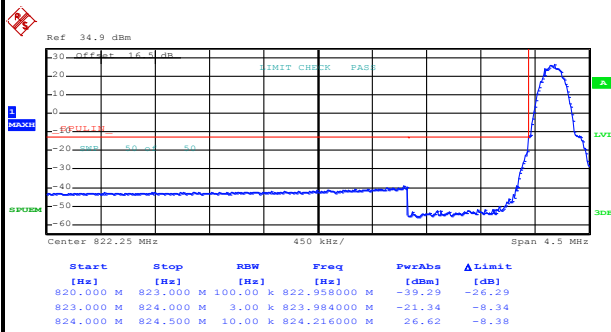


Conducted Band Edge



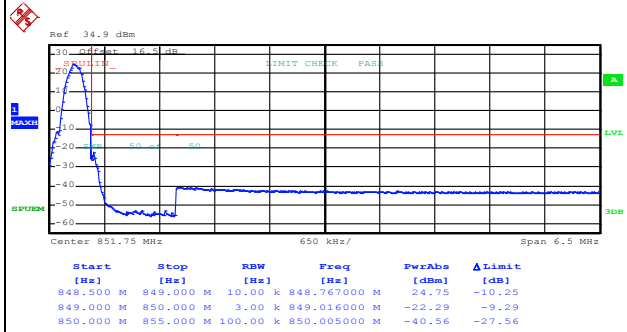
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 21.MAY.2016 10:00:31

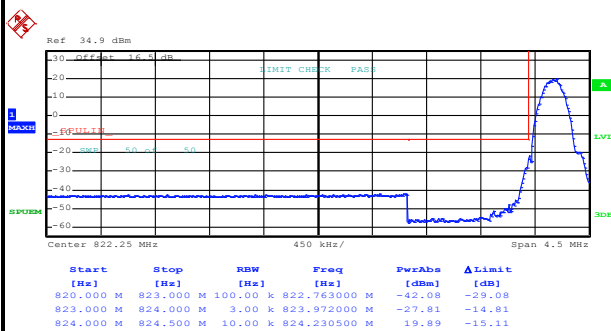
Highest Band Edge



Date: 21.MAY.2016 10:02:05

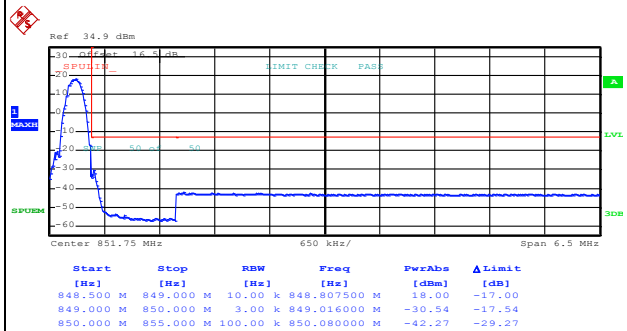
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 21.MAY.2016 10:44:47

Highest Band Edge

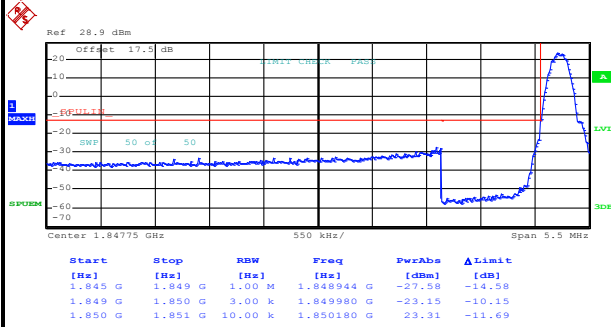


Date: 21.MAY.2016 10:46:38



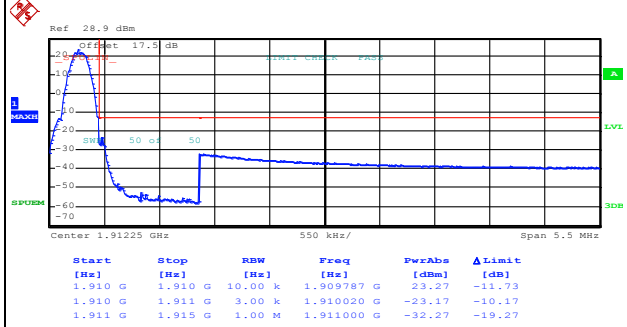
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 21.MAY.2016 11:06:55

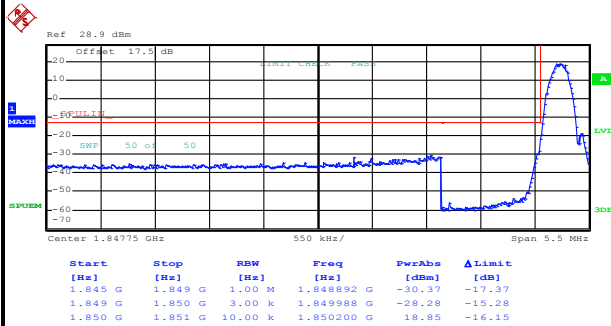
Highest Band Edge



Date: 21.MAY.2016 11:09:36

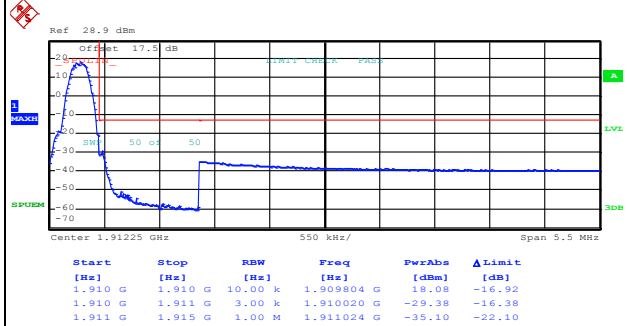
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 21.MAY.2016 11:26:06

Highest Band Edge



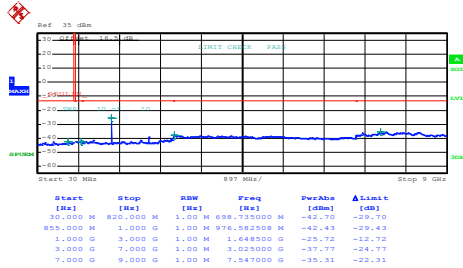
Date: 21.MAY.2016 11:27:46



Conducted Spurious Emission

GSM850 (GPRS class 8)

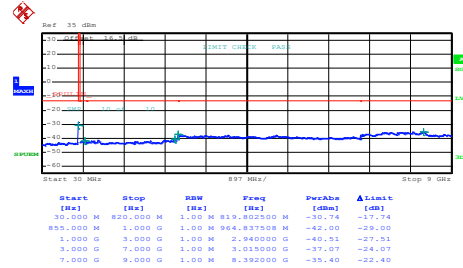
Lowest Channel



Date: 21.MAY.2016 09:53:36

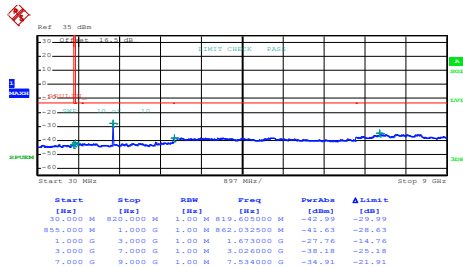
GSM850 (EDGE class 8)

Lowest Channel



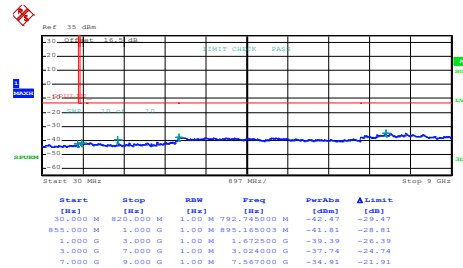
Date: 21.MAY.2016 10:23:45

Middle Channel



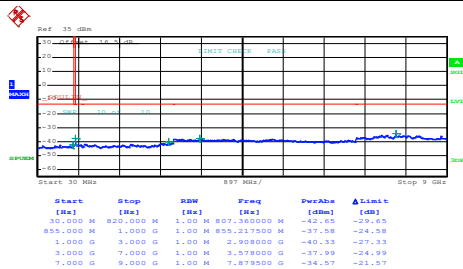
Date: 21.MAY.2016 09:54:28

Middle Channel



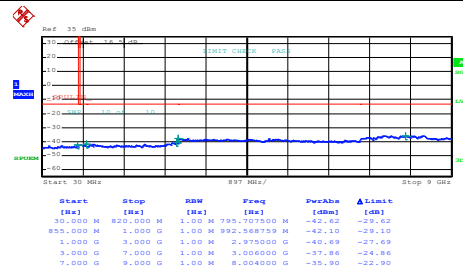
Date: 21.MAY.2016 10:25:18

Highest Channel



Date: 21.MAY.2016 09:55:19

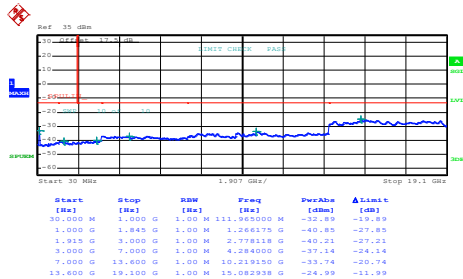
Highest Channel



Date: 21.MAY.2016 10:26:23

GSM1900 (GPRS class 8)

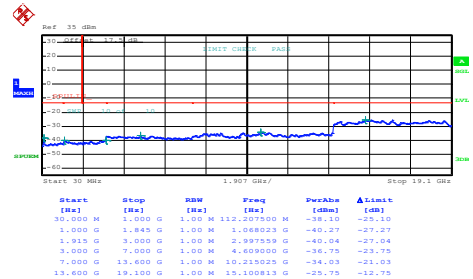
Lowest Channel



Date: 21.MAY.2016 11:02:11

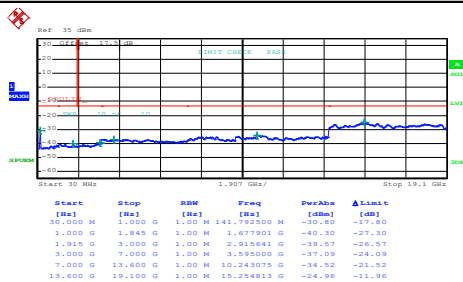
GSM1900 (EDGE class 8)

Lowest Channel



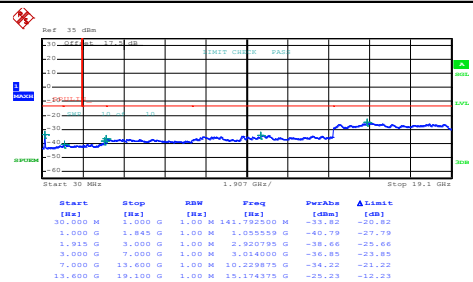
Date: 21.MAY.2016 11:21:20

Middle Channel



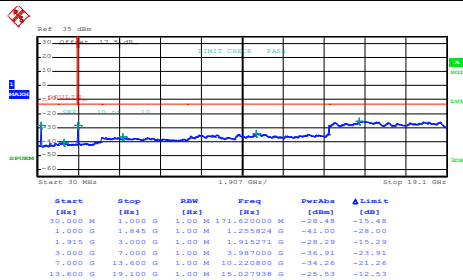
Date: 21.MAY.2016 11:03:07

Middle Channel



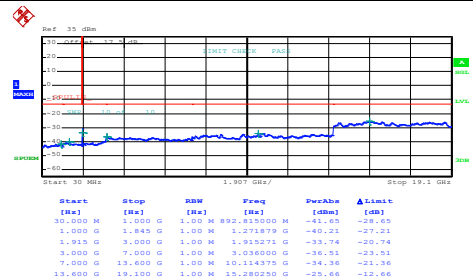
Date: 21.MAY.2016 11:22:11

Highest Channel



Date: 21.MAY.2016 11:04:00

Highest Channel



Date: 21.MAY.2016 11:23:03

Frequency Stability

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

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

Note:

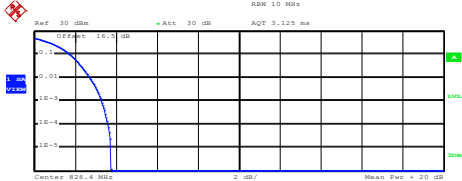
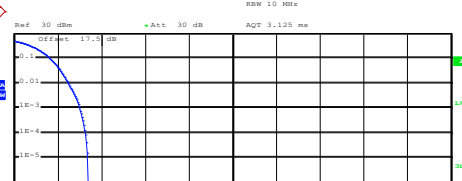
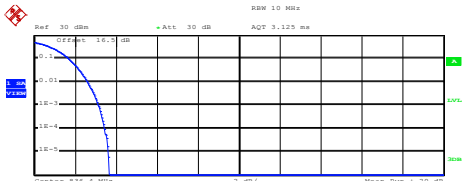
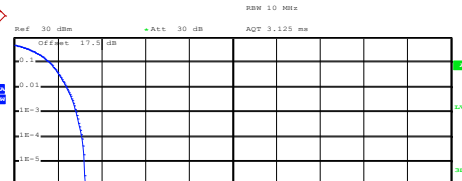
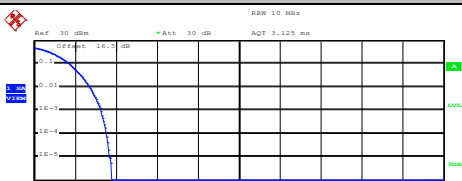
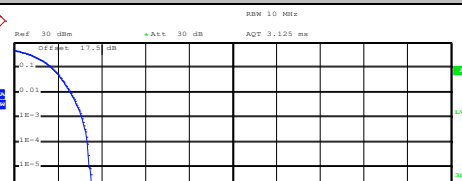
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block.

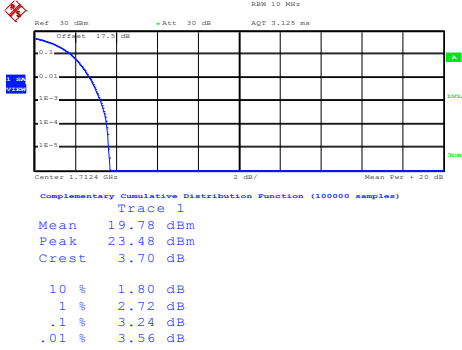
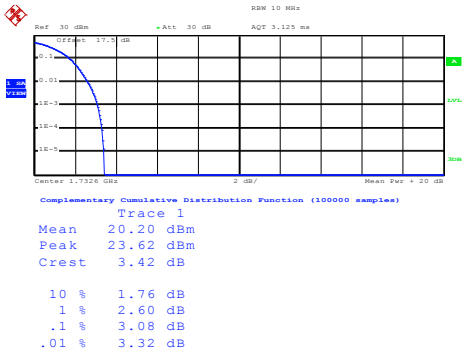
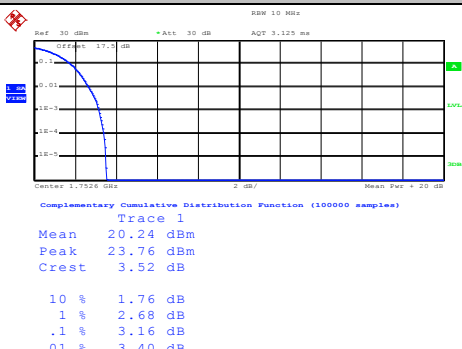


A2. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.28	3.00	3.24	PASS
Middle CH	3.16	2.84	3.08	
Highest CH	3.28	3.12	3.16	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
 Center 826.4 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.71 dBm Peak 24.47 dBm Crest 3.75 dB 10 % 1.76 dB 1 % 2.72 dB .1 % 3.28 dB .01 % 3.60 dB Date: 21.MAY.2016 13:34:48	 Center 1.8324 GHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.89 dBm Peak 23.27 dBm Crest 3.38 dB 10 % 1.68 dB 1 % 2.48 dB .1 % 3.00 dB .01 % 3.28 dB Date: 21.MAY.2016 12:53:51
Middle Channel	Middle Channel
 Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.87 dBm Peak 23.55 dBm Crest 3.68 dB 10 % 1.68 dB 1 % 2.60 dB .1 % 3.16 dB .01 % 3.44 dB Date: 21.MAY.2016 13:34:57	 Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.82 dBm Peak 23.06 dBm Crest 3.24 dB 10 % 1.64 dB 1 % 2.40 dB .1 % 2.84 dB .01 % 3.12 dB Date: 21.MAY.2016 12:54:00
Highest Channel	Highest Channel
 Center 846.6 MHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.61 dBm Peak 24.40 dBm Crest 3.79 dB 10 % 1.72 dB 1 % 2.72 dB .1 % 3.28 dB .01 % 3.52 dB Date: 21.MAY.2016 13:35:06	 Center 1.9076 GHz 2 dB/ Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.65 dBm Peak 23.20 dBm Crest 3.55 dB 10 % 1.72 dB 1 % 2.60 dB .1 % 3.12 dB .01 % 3.36 dB Date: 21.MAY.2016 12:54:10

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Center 1.7124 GHz 2 dB/ Mean Pwr = 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.78 dBm Peak 23.48 dBm Crest 3.70 dB 10 % 1.80 dB 1 % 2.72 dB .1 % 3.24 dB .01 % 3.56 dB Date: 21.MAY.2016 13:11:39	
Middle Channel	
 Center 1.7326 GHz 2 dB/ Mean Pwr = 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.20 dBm Peak 23.62 dBm Crest 3.42 dB 10 % 1.76 dB 1 % 2.60 dB .1 % 3.08 dB .01 % 3.32 dB Date: 21.MAY.2016 13:11:48	
Highest Channel	
 Center 1.7528 GHz 2 dB/ Mean Pwr = 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.24 dBm Peak 23.76 dBm Crest 3.52 dB 10 % 1.76 dB 1 % 2.68 dB .1 % 3.16 dB .01 % 3.40 dB Date: 21.MAY.2016 13:11:20	

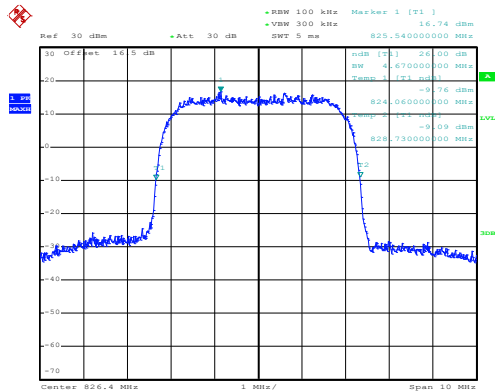
**26dB Bandwidth**

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.67	4.67	4.66
Middle CH	4.66	4.69	4.66
Highest CH	4.64	4.67	4.66



WCDMA Band V (RMC 12.2Kbps)

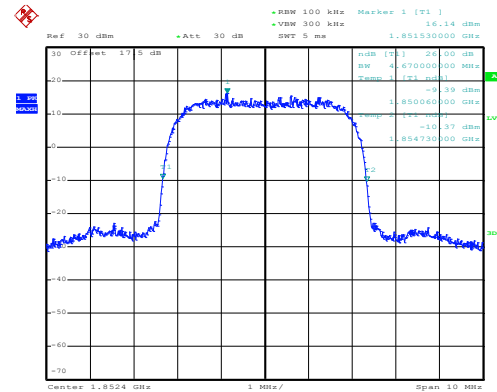
Lowest Channel



Date: 21.MAY.2016 13:28:55

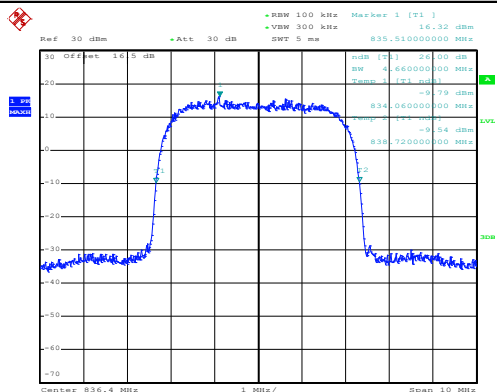
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



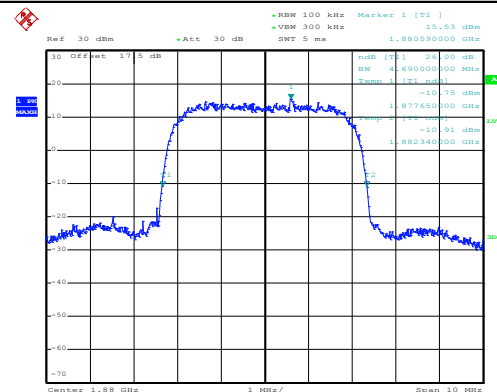
Date: 21.MAY.2016 11:42:49

Middle Channel



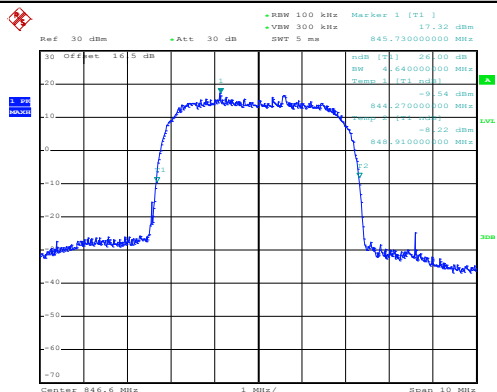
Date: 21.MAY.2016 13:29:23

Middle Channel



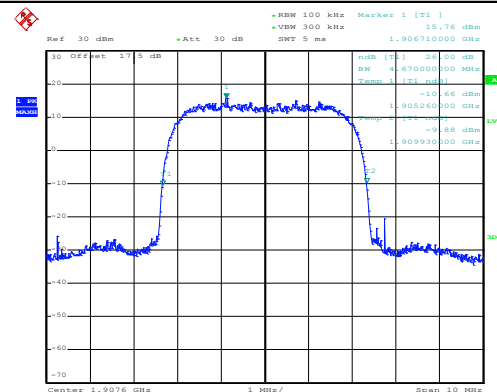
Date: 21.MAY.2016 11:43:17

Highest Channel

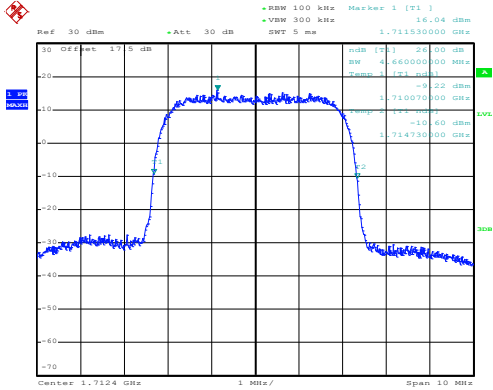
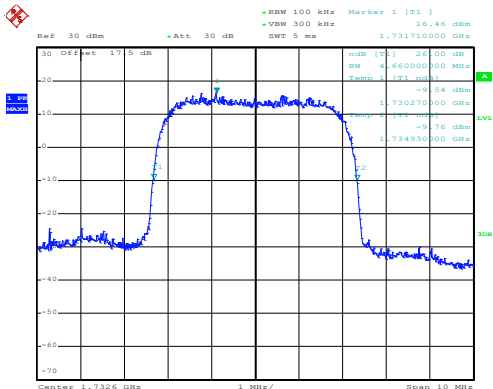
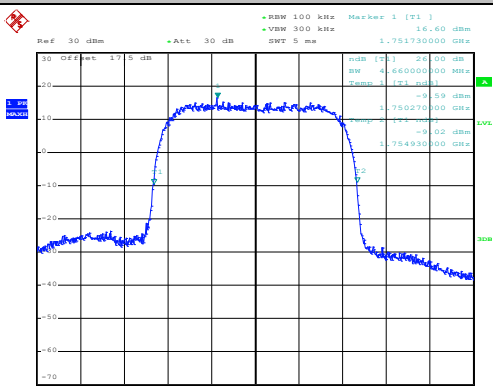


Date: 21.MAY.2016 13:29:51

Highest Channel

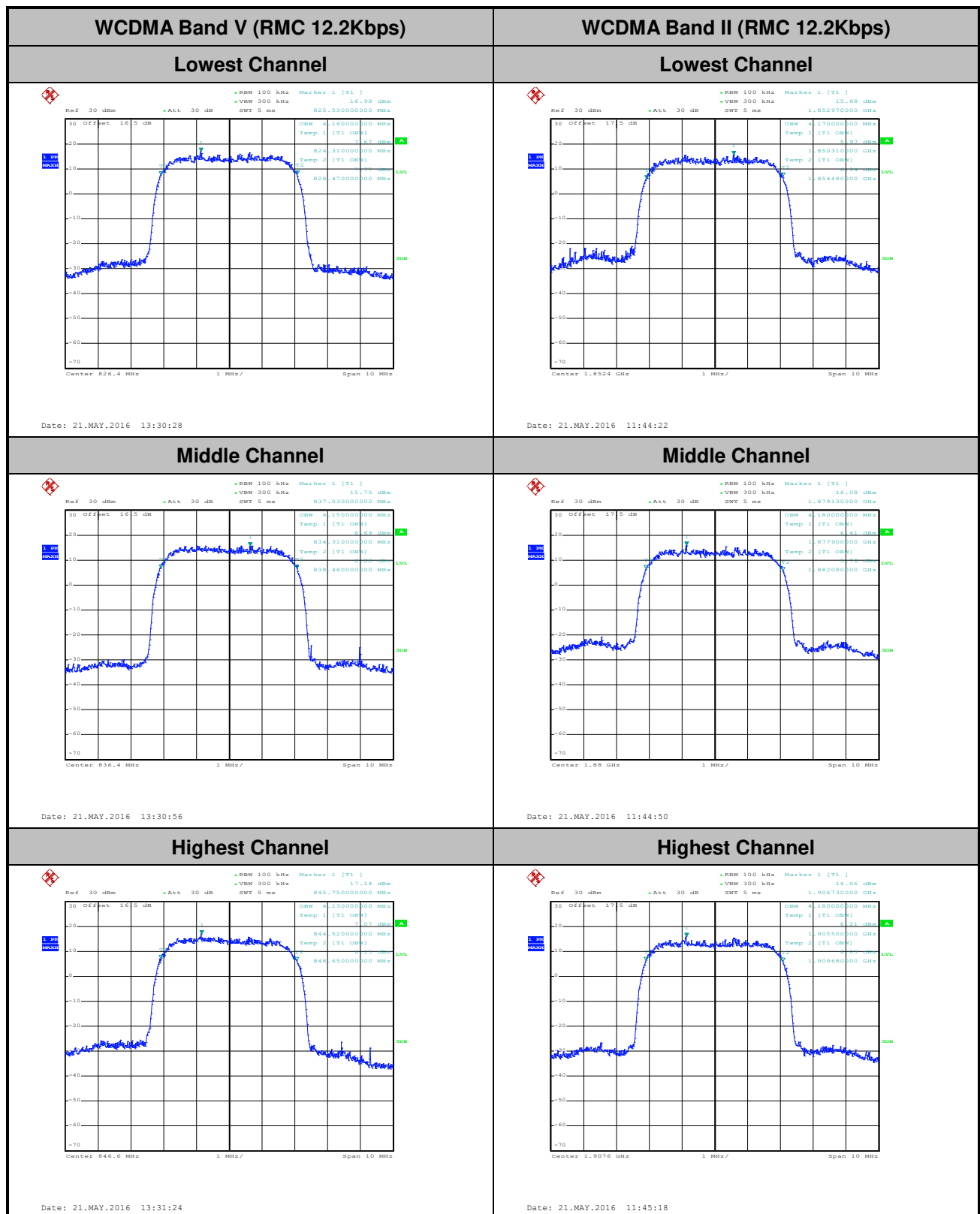


Date: 21.MAY.2016 11:43:45

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Ref: 30 dBm Att: 30 dB RBW: 100 kHz VBW: 300 kHz SWT: 5 ms Marker 1 [T1] 16.04 dBm Center: 1.7124 GHz Span: 10 MHz Date: 21.MAY.2016 13:00:56	
Middle Channel	
 Ref: 30 dBm Att: 30 dB RBW: 100 kHz VBW: 300 kHz SWT: 5 ms Marker 1 [T1] 16.46 dBm Center: 1.7326 GHz Span: 10 MHz Date: 21.MAY.2016 13:01:24	
Highest Channel	
 Ref: 30 dBm Att: 30 dB RBW: 100 kHz VBW: 300 kHz SWT: 5 ms Marker 1 [T1] 16.60 dBm Center: 1.7528 GHz Span: 10 MHz Date: 21.MAY.2016 13:01:52	

**Occupied Bandwidth**

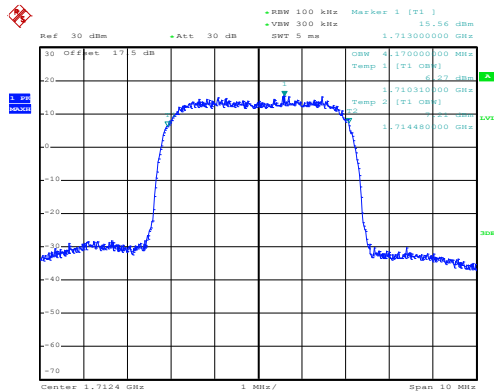
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.16	4.17	4.17
Middle CH	4.15	4.18	4.17
Highest CH	4.13	4.18	4.17





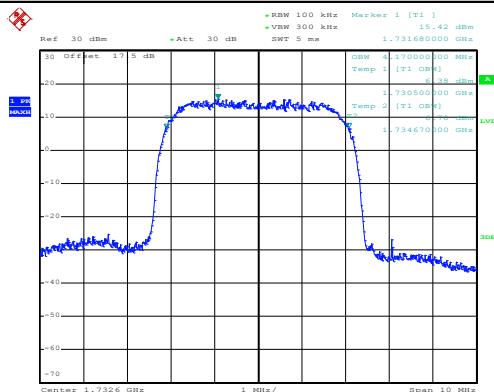
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



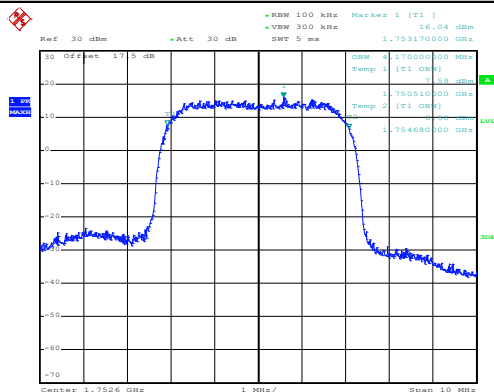
Date: 21.MAY.2016 13:02:42

Middle Channel



Date: 21.MAY.2016 13:03:10

Highest Channel



Date: 21.MAY.2016 13:03:38

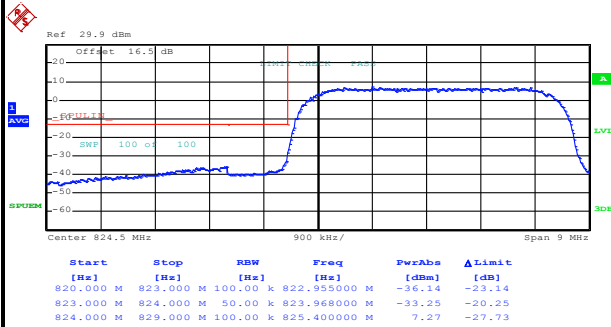


Conducted Band Edge



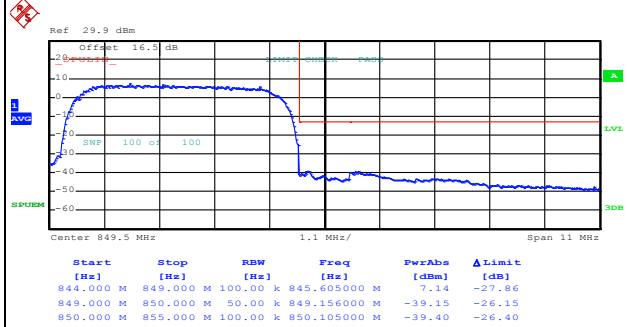
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 21.MAY.2016 13:37:58

Highest Band Edge

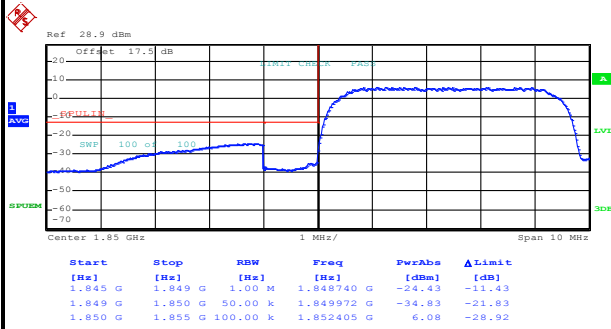


Date: 21.MAY.2016 13:40:41



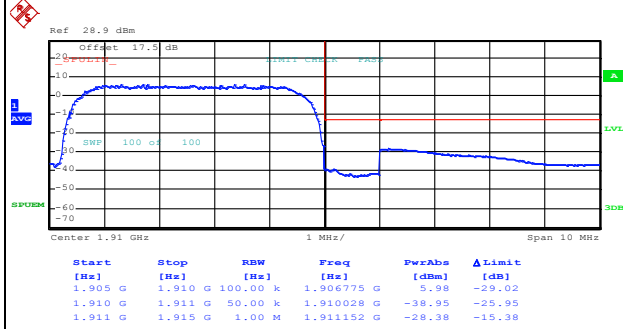
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 21.MAY.2016 12:17:47

Highest Band Edge

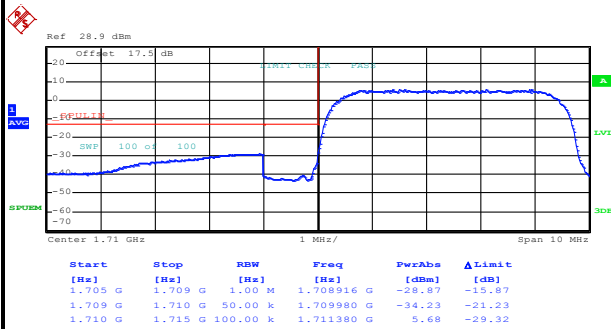


Date: 21.MAY.2016 12:20:30



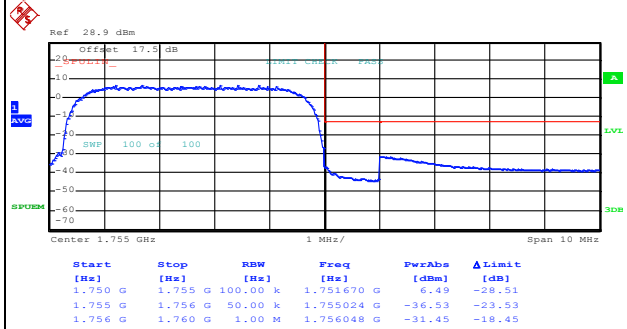
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Date: 21.MAY.2016 13:15:22

Highest Band Edge



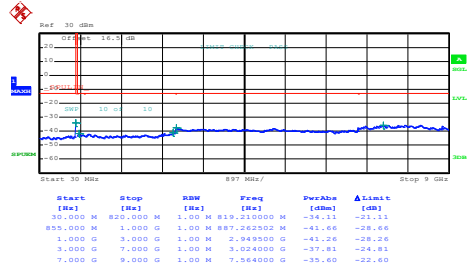
Date: 21.MAY.2016 13:18:04



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

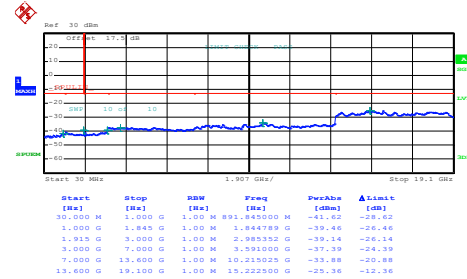
Lowest Channel



Date: 21.MAY.2016 13:32:26

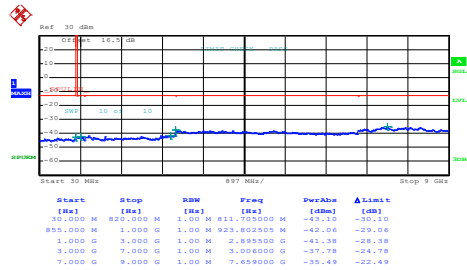
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



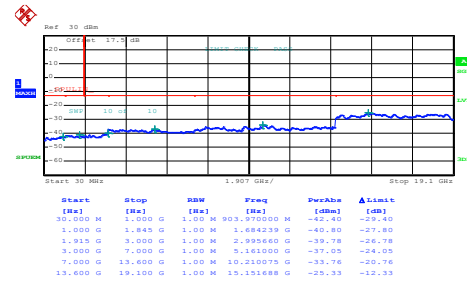
Date: 21.MAY.2016 11:46:14

Middle Channel



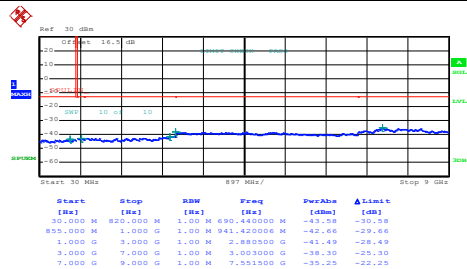
Date: 21.MAY.2016 13:33:11

Middle Channel



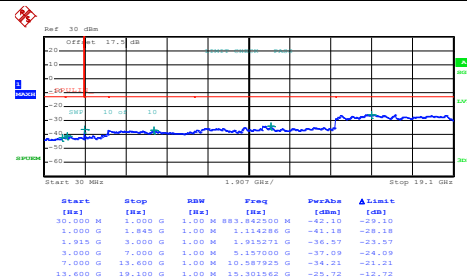
Date: 21.MAY.2016 11:47:00

Highest Channel



Date: 21.MAY.2016 13:33:58

Highest Channel



Date: 21.MAY.2016 11:47:46

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm
50	Normal Voltage	0.0143	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0120	
0	Normal Voltage	0.0132	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0155	
-30	Normal Voltage	0.0132	
20	Maximum Voltage	0.0143	
20	Normal Voltage	0.0120	
20	Battery End Point	0.0132	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2.
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2. Result
50	Normal Voltage	0.0075	PASS
40	Normal Voltage	0.0063	
30	Normal Voltage	0.0058	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0069	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0012	

Note:

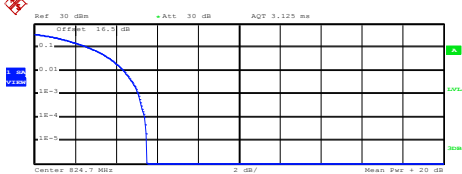
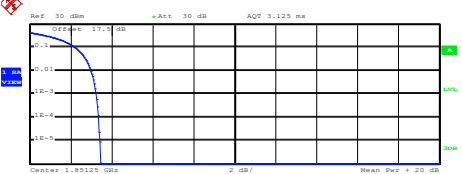
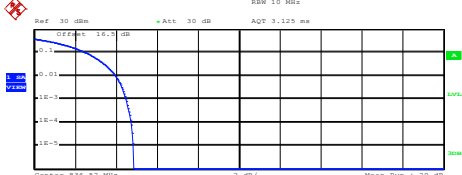
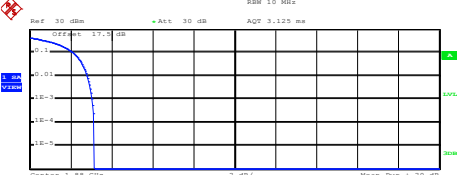
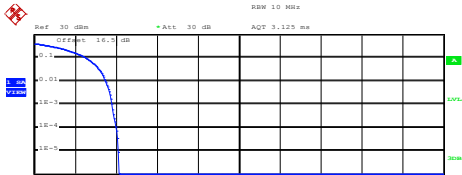
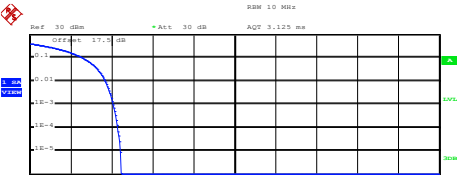
1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block.

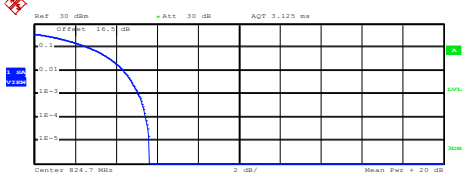
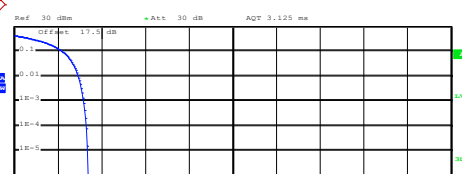
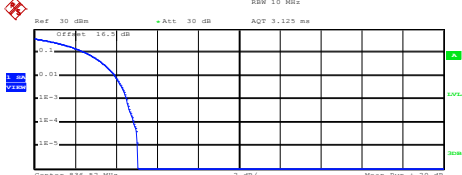
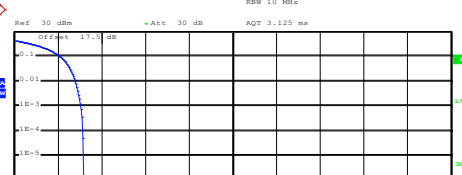
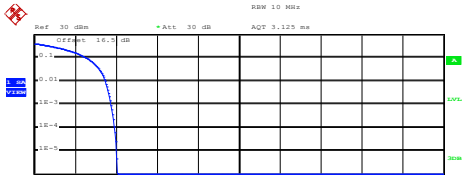
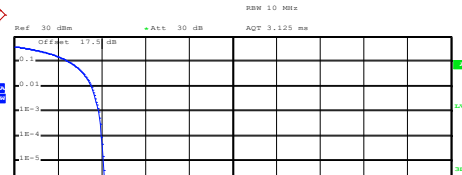
A3. CDMA

Peak-to-Average Ratio

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xRTT	1xRTT	Result
Lowest CH	5.08	3.24	PASS
Middle CH	4.48	3.04	
Highest CH	3.80	4.08	

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xEV-DO Rev. A	1xEV-DO Rev. A	Result
Lowest CH	5.08	3.20	PASS
Middle CH	4.52	3.08	
Highest CH	3.76	3.88	

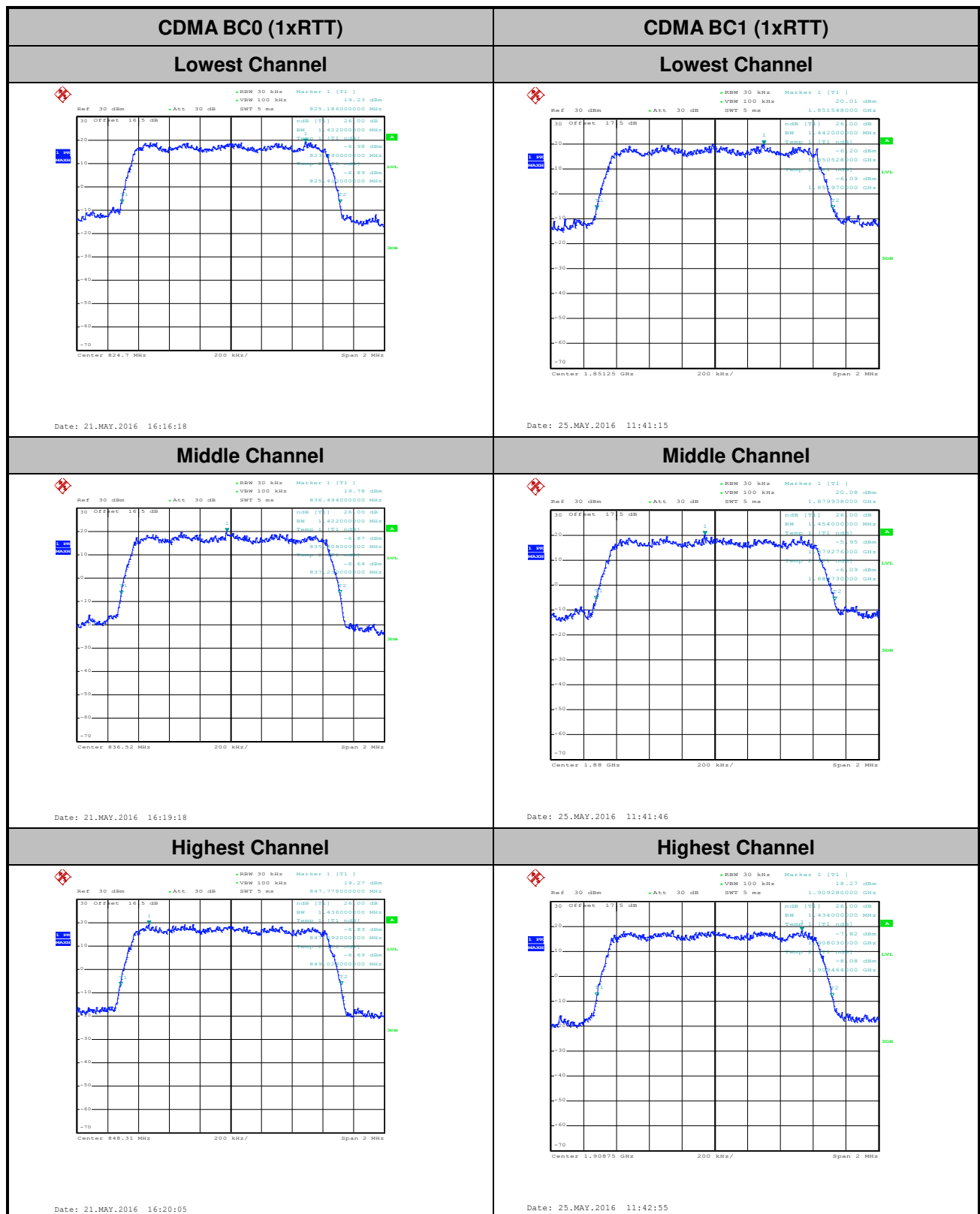
CDMA BC0 (1xRTT)	CDMA BC1 (1xRTT)
Lowest Channel	Lowest Channel
 Center 824.7 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.11 dBm Peak 29.62 dBm Crest 5.51 dB 10 % 2.68 dB 1 % 4.40 dB .1 % 5.08 dB .01 % 5.40 dB Date: 21.MAY.2016 16:31:26	 Center 1.85123 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.18 dBm Peak 27.64 dBm Crest 3.47 dB 10 % 2.24 dB 1 % 3.00 dB .1 % 3.24 dB .01 % 3.36 dB Date: 25.MAY.2016 11:51:12
Middle Channel	Middle Channel
 Center 836.52 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.85 dBm Peak 28.70 dBm Crest 4.85 dB 10 % 2.56 dB 1 % 3.96 dB .1 % 4.48 dB .01 % 4.76 dB Date: 21.MAY.2016 16:31:39	 Center 1.88 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.07 dBm Peak 27.22 dBm Crest 3.15 dB 10 % 2.12 dB 1 % 2.80 dB .1 % 3.04 dB .01 % 3.16 dB Date: 25.MAY.2016 11:51:23
Highest Channel	Highest Channel
 Center 848.31 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.94 dBm Peak 28.07 dBm Crest 4.13 dB 10 % 2.56 dB 1 % 3.48 dB .1 % 3.80 dB .01 % 4.00 dB Date: 21.MAY.2016 16:31:53	 Center 1.90873 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.84 dBm Peak 27.29 dBm Crest 4.45 dB 10 % 2.60 dB 1 % 3.68 dB .1 % 4.08 dB .01 % 4.28 dB Date: 25.MAY.2016 11:51:34

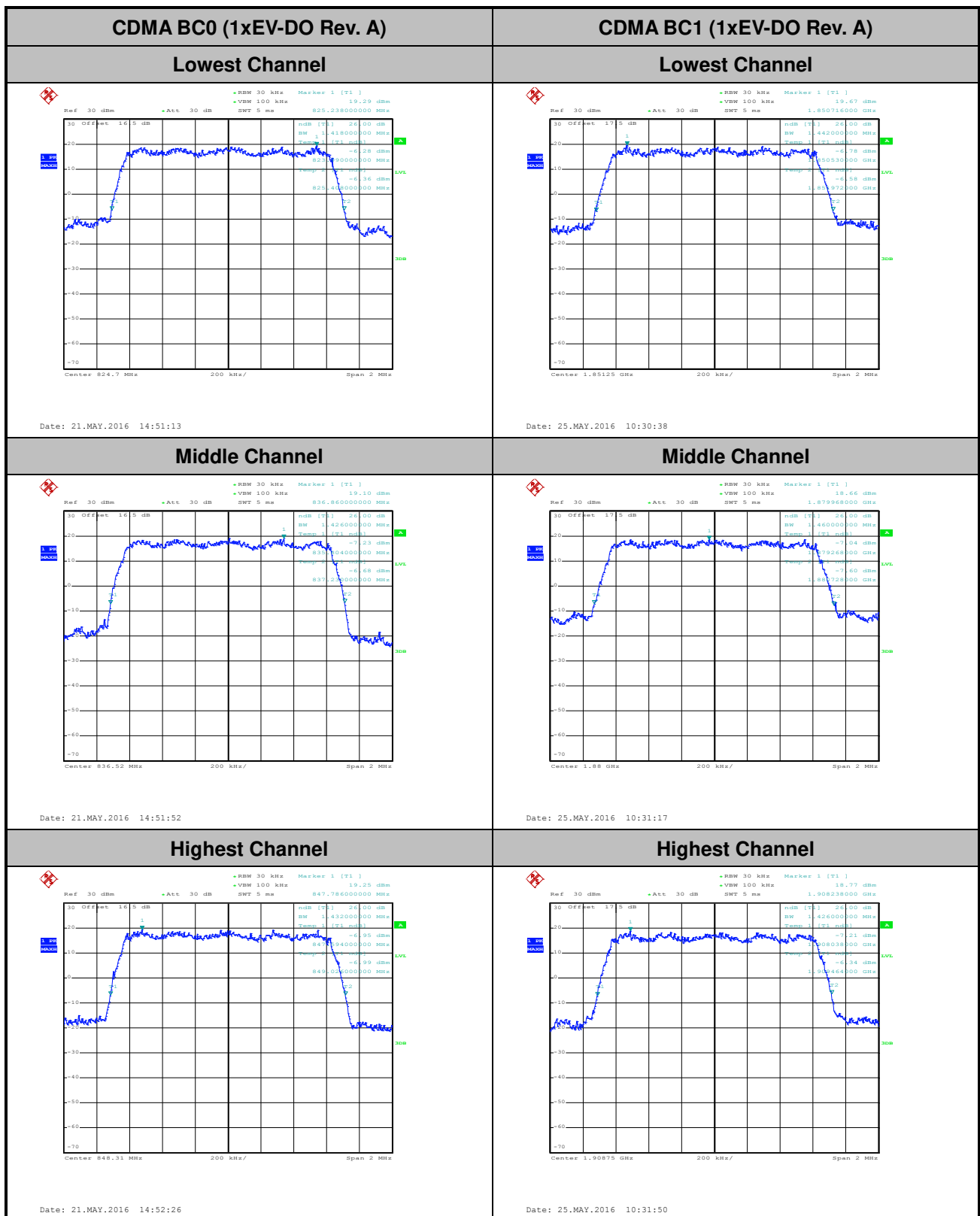
CDMA BC0 (1xEV-DO Rev. A)	CDMA BC1 (1xEV-DO Rev. A)
Lowest Channel	Lowest Channel
 Center 824.7 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.13 dBm Peak 29.76 dBm Crest 5.63 dB 10 % 2.68 dB 1 % 4.36 dB .1 % 5.08 dB .01 % 5.44 dB Date: 21.MAY.2016 14:58:48	 Center 1.83125 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.14 dBm Peak 27.50 dBm Crest 3.36 dB 10 % 2.20 dB 1 % 2.96 dB .1 % 3.20 dB .01 % 3.32 dB Date: 25.MAY.2016 10:48:16
Middle Channel	Middle Channel
 Center 836.52 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.86 dBm Peak 28.91 dBm Crest 5.05 dB 10 % 2.52 dB 1 % 3.92 dB .1 % 4.52 dB .01 % 4.88 dB Date: 21.MAY.2016 14:59:01	 Center 1.88 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.99 dBm Peak 27.15 dBm Crest 3.16 dB 10 % 2.12 dB 1 % 2.80 dB .1 % 3.08 dB .01 % 3.16 dB Date: 25.MAY.2016 10:48:28
Highest Channel	Highest Channel
 Center 848.31 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.03 dBm Peak 28.07 dBm Crest 4.04 dB 10 % 2.56 dB 1 % 3.48 dB .1 % 3.76 dB .01 % 3.92 dB Date: 21.MAY.2016 14:59:14	 Center 1.90875 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.37 dBm Peak 27.50 dBm Crest 4.13 dB 10 % 2.52 dB 1 % 3.56 dB .1 % 3.88 dB .01 % 4.00 dB Date: 25.MAY.2016 10:48:45

**26dB Bandwidth**

Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.42	1.44
Middle CH	1.42	1.45
Highest CH	1.44	1.43

Mode	CDMA BC0	CDMA BC1
Mod.	1xEV-DO Rev. A	1xEV-DO Rev. A
Lowest CH	1.42	1.44
Middle CH	1.43	1.46
Highest CH	1.43	1.43

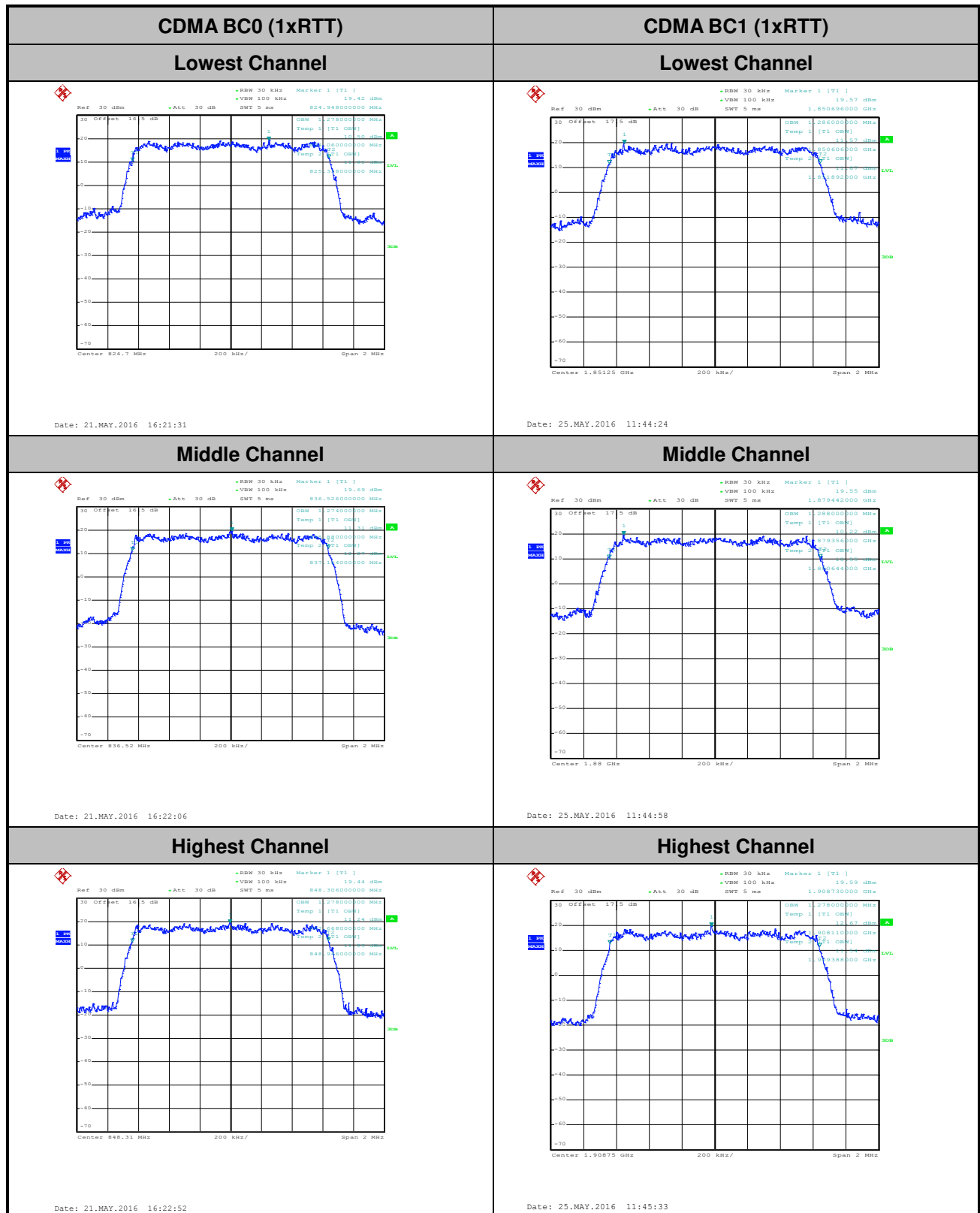


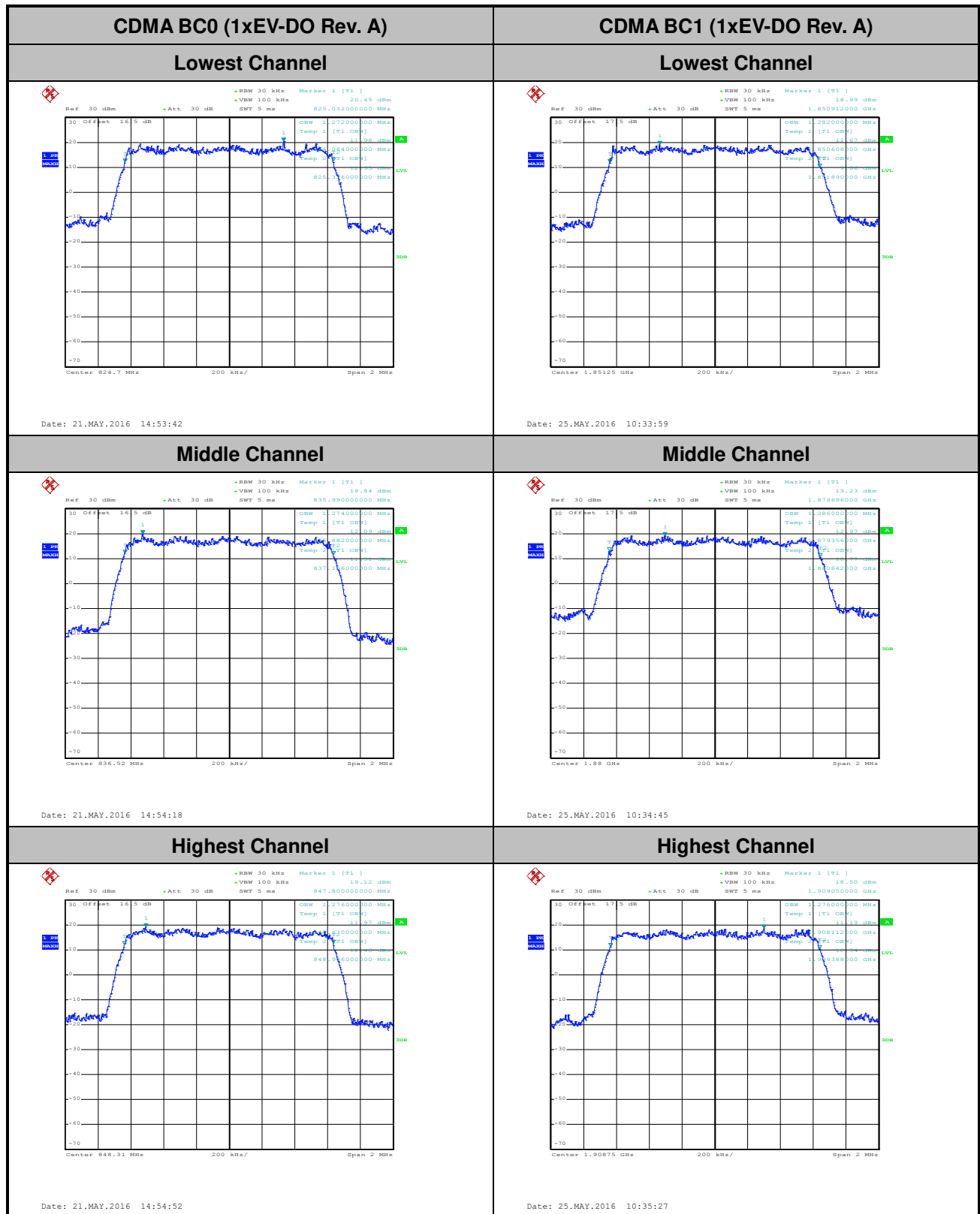


**Occupied Bandwidth**

Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.28	1.29
Middle CH	1.27	1.29
Highest CH	1.28	1.28

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



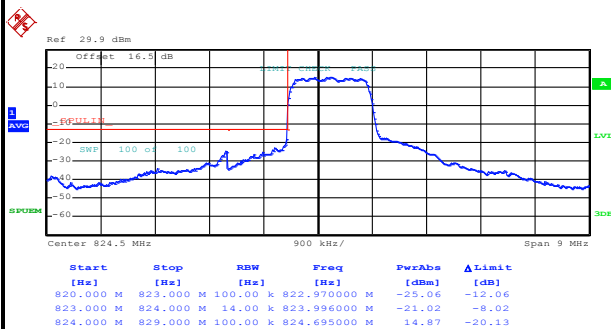




Conducted Band Edge

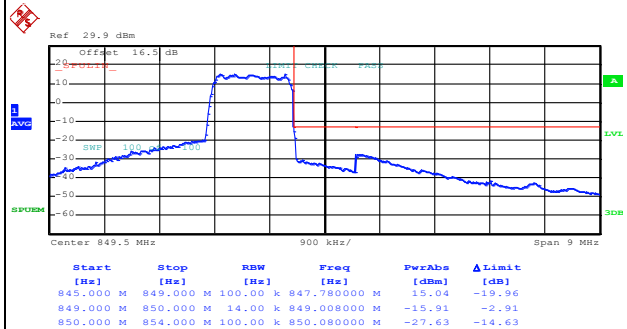
CDMA BC0 (1xRTT)

Lowest Band Edge



Date: 21.MAY.2016 16:35:17

Highest Band Edge

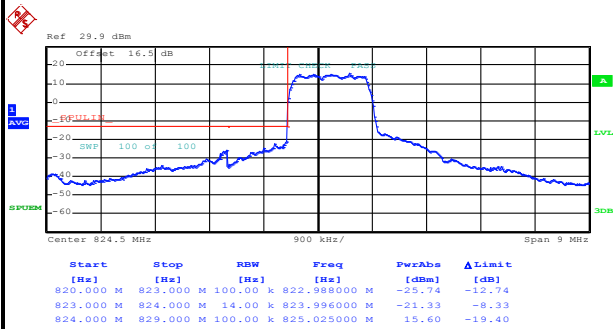


Date: 21.MAY.2016 16:38:09



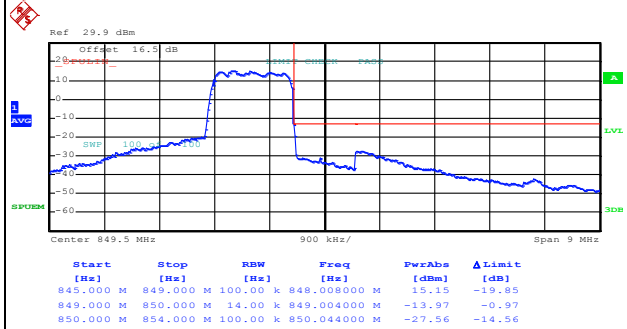
CDMA BC0 (1xEV-DO Rev. A)

Lowest Band Edge



Date: 21.MAY.2016 15:02:36

Highest Band Edge

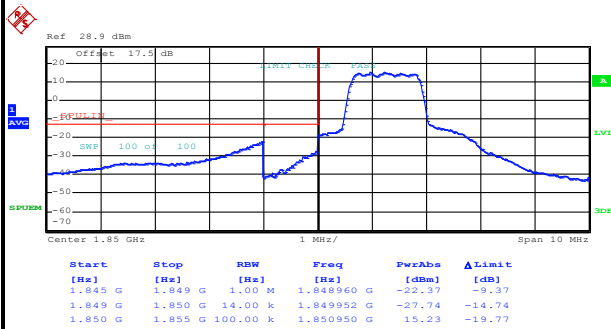


Date: 21.MAY.2016 15:05:26



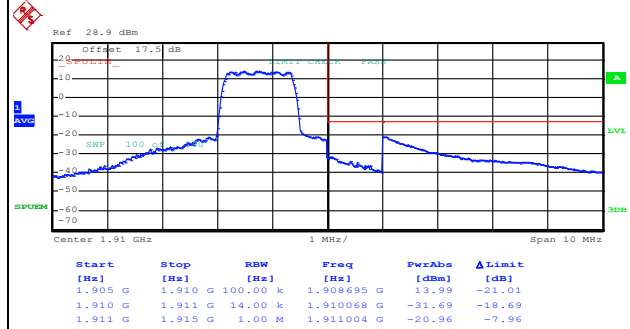
CDMA BC1 (1xRTT)

Lowest Band Edge



Date: 25.MAY.2016 11:54:38

Highest Band Edge

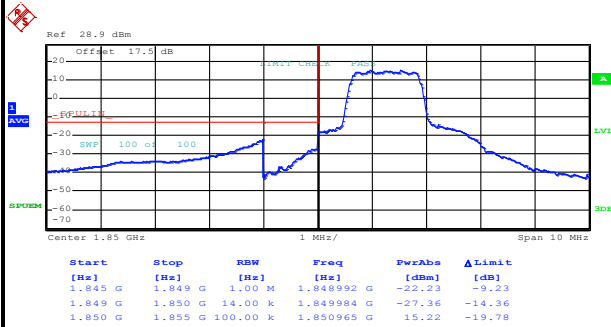


Date: 25.MAY.2016 11:57:27



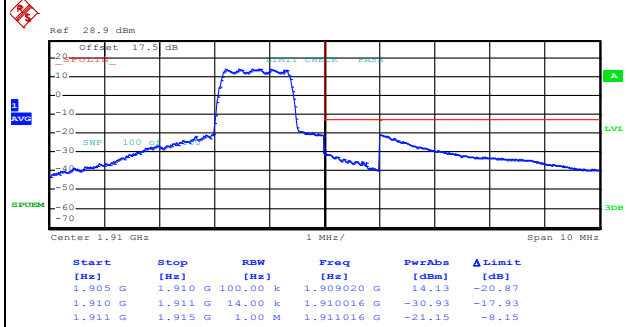
CDMA BC1 (1xEV-DO Rev. A)

Lowest Band Edge



Date: 25.MAY.2016 10:44:43

Highest Band Edge



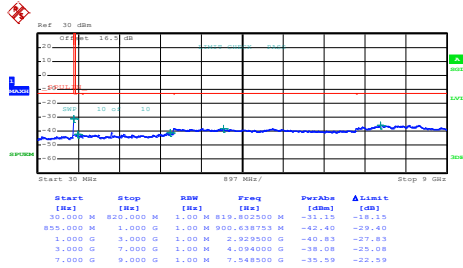
Date: 25.MAY.2016 10:47:33



Conducted Spurious Emission

CDMA BC0 (1xRTT)

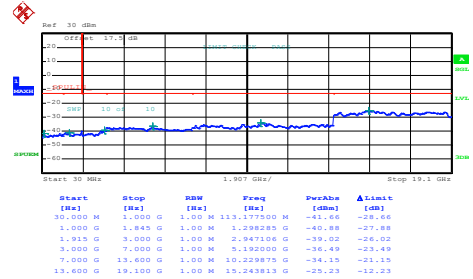
Lowest Channel



Date: 21.MAY.2016 16:25:11

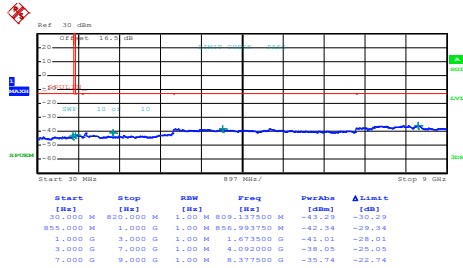
CDMA BC1 (1xRTT)

Lowest Channel



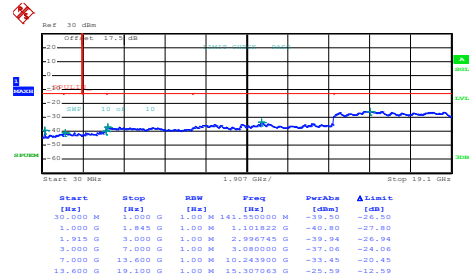
Date: 25.MAY.2016 11:46:49

Middle Channel



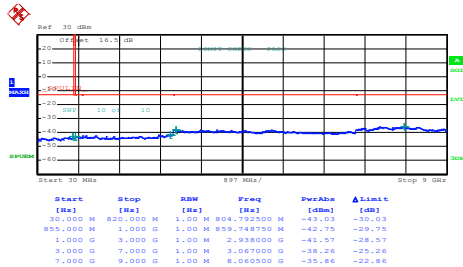
Date: 21.MAY.2016 16:26:31

Middle Channel



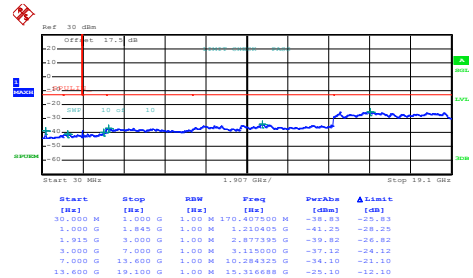
Date: 25.MAY.2016 11:47:41

Highest Channel



Date: 21.MAY.2016 16:27:27

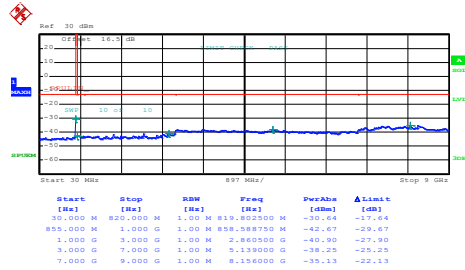
Highest Channel



Date: 25.MAY.2016 11:49:14

CDMA BC0 (1xEV-DO Rev. A)

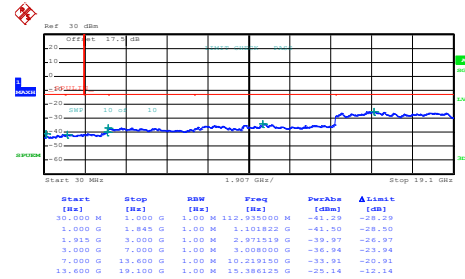
Lowest Channel



Date: 21.MAY.2016 14:56:06

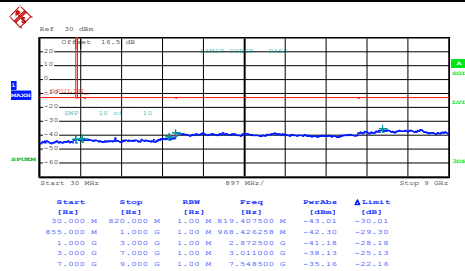
CDMA BC1 (1xEV-DO Rev. A)

Lowest Channel



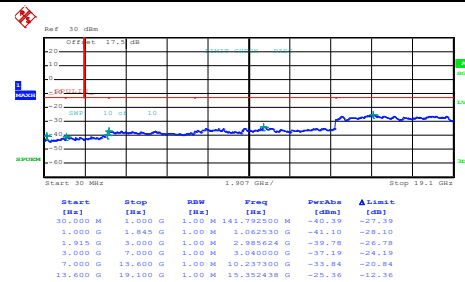
Date: 25.MAY.2016 10:38:30

Middle Channel



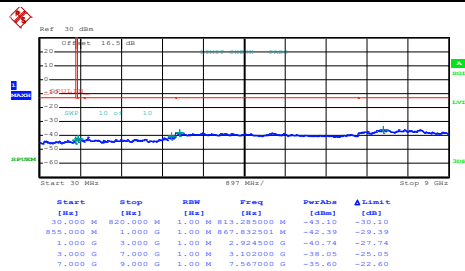
Date: 21.MAY.2016 14:56:58

Middle Channel



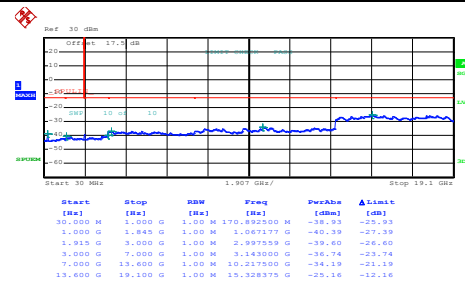
Date: 25.MAY.2016 10:39:24

Highest Channel



Date: 21.MAY.2016 14:57:53

Highest Channel



Date: 25.MAY.2016 10:40:51

**Frequency Stability**

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm
50	Normal Voltage	0.0347	PASS
40	Normal Voltage	0.0335	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0299	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0323	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	
			Result

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2.
50	Normal Voltage	0.0234	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0229	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0229	
-10	Normal Voltage	0.0245	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0239	
			Result

Test Conditions	Middle Channel	CDMA BC0 (EVDO)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0263	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0239	
-10	Normal Voltage	0.0275	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0299	
20	Maximum Voltage	0.0311	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0323	

Test Conditions	Middle Channel	CDMA BC1 (EVDO)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2.
50	Normal Voltage	0.0234	PASS
40	Normal Voltage	0.0239	
30	Normal Voltage	0.0229	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0223	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0234	
20	Battery End Point	0.0229	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horizontal		Vertical	
		ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	GSM850 GPRS class 8	10.50	0.0112	30.01	1.0023
Middle		10.54	0.0113	29.63	0.9183
Highest		11.30	0.0135	29.60	0.9120
Lowest	GSM850 EDGE class 8	4.08	0.0026	23.35	0.2163
Middle		4.55	0.0029	23.43	0.2203
Highest		5.80	0.0038	23.57	0.2275
Lowest	WCDMA Band V RMC 12.2Kbps	0.92	0.0012	20.63	0.1156
Middle		2.06	0.0016	20.24	0.1057
Highest		2.58	0.0018	19.99	0.0998
Lowest	CDMA BC0 1xEV-DO Rev. A	1.76	0.0015	20.71	0.1178
Middle		1.66	0.0015	20.15	0.1035
Highest		2.09	0.0016	19.94	0.0986
Limit	ERP < 7W	Result		PASS	



Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900 GPRS class 8	27.21	0.5260	30.27	1.0641
Middle		27.39	0.5483	30.09	1.0209
Highest		27.36	0.5445	29.70	0.9333
Lowest	GSM1900 EDGE class 8	23.03	0.2009	25.92	0.3908
Middle		23.67	0.2328	26.34	0.4305
Highest		23.55	0.2265	25.96	0.3945
Lowest	WCDMA Band II RMC 12.2Kbps	20.41	0.1099	23.26	0.2118
Middle		20.23	0.1054	22.38	0.1730
Highest		18.02	0.0634	22.59	0.1816
Lowest	CDMA BC1 1xEV-DO Rev. A	21.70	0.1479	24.41	0.2761
Middle		21.38	0.1374	23.54	0.2259
Highest		21.51	0.1416	23.93	0.2472
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Horizontal		Vertical	
		EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	20.09	0.1021	22.96	0.1977
Middle		20.70	0.1175	23.18	0.2080
Highest		21.23	0.1327	23.39	0.2183
Limit	EIRP < 1W	Result		PASS	

**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	1648	-38.61	-13	-25.61	-49.49	-40.37	0.98	4.89	H
	2472	-42.49	-13	-29.49	-56.63	-44.37	1.28	5.32	H
	3296	-53.01	-13	-40.01	-70.83	-56.42	1.54	7.10	H
									H
									H
									H
	1648	-44.47	-13	-31.47	-55.35	-46.23	0.98	4.89	V
	2472	-47.58	-13	-34.58	-61.7	-49.46	1.28	5.32	V
	3296	-56.01	-13	-43.01	-73.82	-59.42	1.54	7.10	V
									V
									V
									V
Middle	1672	-38.97	-13	-25.97	-49.92	-40.65	0.99	4.82	H
	2512	-50.90	-13	-37.90	-65.19	-52.87	1.29	5.41	H
	3344	-53.01	-13	-40.01	-70.93	-56.62	1.56	7.31	H
									H
									H
									H
	1672	-42.55	-13	-29.55	-53.48	-44.23	0.99	4.82	V
	2512	-47.26	-13	-34.26	-61.57	-49.23	1.29	5.41	V
	3344	-56.45	-13	-43.45	-74.37	-60.06	1.56	7.31	V
									V
									V
									V
Highest	1696	-40.35	-13	-27.35	-51.34	-41.95	1.00	4.75	H
	2544	-47.25	-13	-34.25	-61.74	-49.23	1.30	5.44	H
	3392	-53.62	-13	-40.62	-71.68	-57.42	1.57	7.52	H
									H
									H
									H
	1696	-44.78	-13	-31.78	-55.76	-46.38	1.00	4.75	V
	2544	-52.47	-13	-39.47	-66.95	-54.45	1.30	5.44	V
	3392	-58.08	-13	-45.08	-76.15	-61.88	1.57	7.52	V
									V
									V
									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	1648	-44.32	-13	-31.32	-55.19	-46.08	0.98	4.89	H
	2472	-57.32	-13	-44.32	-71.45	-59.2	1.28	5.32	H
	3296	-58.73	-13	-45.73	-76.52	-62.14	1.54	7.10	H
									H
									H
									H
	1648	-52.44	-13	-39.44	-63.32	-54.2	0.98	4.89	V
	2472	-60.23	-13	-47.23	-74.34	-62.11	1.28	5.32	V
	3296	-60.85	-13	-47.85	-78.65	-64.26	1.54	7.10	V
									V
									V
									V
Middle	1672	-46.64	-13	-33.64	-57.57	-48.32	0.99	4.82	H
	2512	-61.88	-13	-48.88	-76.17	-63.85	1.29	5.41	H
	3345	-61.24	-13	-48.24	-79.17	-64.85	1.56	7.32	H
									H
									H
									H
	1672	-52.34	-13	-39.34	-63.28	-54.02	0.99	4.82	V
	2509	-63.56	-13	-50.56	-77.87	-65.52	1.29	5.41	V
	3344	-61.28	-13	-48.28	-79.21	-64.89	1.56	7.31	V
									V
									V
									V
Highest	1696	-52.05	-13	-39.05	-63.02	-53.65	1.00	4.75	H
	2544	-62.00	-13	-49.00	-76.48	-63.98	1.30	5.44	H
	3392	-61.22	-13	-48.22	-79.29	-65.02	1.57	7.52	H
									H
									H
									H
	1696	-51.76	-13	-38.76	-62.73	-53.36	1.00	4.75	V
	2544	-63.17	-13	-50.17	-77.67	-65.15	1.30	5.44	V
	3392	-61.41	-13	-48.41	-79.49	-65.21	1.57	7.52	V
									V
									V
									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	-53.91	-13	-40.91	-72.55	-60.48	1.67	8.24	H
	5548	-50.95	-13	-37.95	-76.44	-58.02	2.65	9.72	H
	7403	-48.12	-13	-35.12	-81.52	-57.27	2.46	11.61	H
									H
									H
									H
	3700	-58.76	-13	-45.76	-77.4	-65.33	1.67	8.24	V
	5548	-52.14	-13	-39.14	-77.64	-59.21	2.65	9.72	V
	7400.8	-49.64	-13	-36.64	-83.05	-58.78	2.46	11.60	V
									V
									V
									V
Middle	3763	-57.89	-13	-44.89	-76.63	-64.52	1.69	8.32	H
	5639	-51.01	-13	-38.01	-76.81	-58.06	2.71	9.76	H
	7522	-47.01	-13	-34.01	-80.73	-56.4	2.42	11.81	H
									H
									H
									H
	3763	-59.93	-13	-46.93	-78.7	-66.56	1.69	8.32	V
	5639	-53.76	-13	-40.76	-79.56	-60.81	2.71	9.76	V
	7522	-49.33	-13	-36.33	-83.04	-58.72	2.42	11.81	V
									V
									V
									V
Highest	3819	-50.12	-13	-37.12	-68.96	-56.8	1.70	8.38	H
	5730	-49.72	-13	-36.72	-75.88	-56.75	2.76	9.79	H
	7641	-48.90	-13	-35.90	-82.82	-58.4	2.38	11.88	H
									H
									H
									H
	3819	-53.90	-13	-40.90	-72.74	-60.58	1.70	8.38	V
	5730	-54.45	-13	-41.45	-80.61	-61.48	2.76	9.79	V
	7641	-48.90	-13	-35.90	-82.82	-58.4	2.38	11.88	V
									V
									V
									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	-57.48	-13	-44.48	-76.14	-64.05	1.67	8.24	H
	5548	-55.50	-13	-42.50	-81.01	-62.57	2.65	9.72	H
	7403	-49.70	-13	-36.70	-83.13	-58.85	2.46	11.61	H
									H
									H
									H
	3700	-59.94	-13	-46.94	-78.59	-66.51	1.67	8.24	V
	5548	-56.30	-13	-43.30	-81.82	-63.37	2.65	9.72	V
	7403	-49.63	-13	-36.63	-83.05	-58.78	2.46	11.61	V
									V
									V
									V
Middle	3763	-59.26	-13	-46.26	-78.01	-65.89	1.69	8.32	H
	5639	-55.34	-13	-42.34	-81.15	-62.39	2.71	9.76	H
	7522	-49.22	-13	-36.22	-82.96	-58.61	2.42	11.81	H
									H
									H
									H
	3763	-59.77	-13	-46.77	-78.53	-66.4	1.69	8.32	V
	5639	-55.29	-13	-42.29	-81.12	-62.34	2.71	9.76	V
	7522	-48.96	-13	-35.96	-82.69	-58.35	2.42	11.81	V
									V
									V
									V
Highest	3819	-60.04	-13	-47.04	-78.88	-66.72	1.70	8.38	H
	5730	-54.92	-13	-41.92	-81.06	-61.95	2.76	9.79	H
	7641	-48.95	-13	-35.95	-82.88	-58.45	2.38	11.88	H
									H
									H
									H
	3819	-59.94	-13	-46.94	-78.76	-66.62	1.70	8.38	V
	5730	-54.73	-13	-41.73	-80.86	-61.76	2.76	9.79	V
	7641	-48.75	-13	-35.75	-82.68	-58.25	2.38	11.88	V
									V
									V
									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	1652.8	-63.46	-13	-50.46	-74.35	-65.2	0.98	4.87	H
	2479.2	-64.18	-13	-51.18	-78.29	-66.08	1.28	5.34	H
	3305.6	-61.37	-13	-48.37	-79.22	-64.82	1.54	7.14	H
									H
									H
									H
	1672.8	-66.04	-13	-53.04	-76.97	-67.72	0.99	4.82	V
	2509.2	-64.04	-13	-51.04	-78.35	-66	1.29	5.41	V
	3304	-61.29	-13	-48.29	-79.13	-64.73	1.54	7.14	V
									V
									V
									V
Middle	1672	-63.52	-13	-50.52	-74.45	-65.2	0.99	4.82	H
	2509.2	-62.71	-13	-49.71	-77.02	-64.67	1.29	5.41	H
	3345.6	-61.39	-13	-48.39	-79.31	-65	1.56	7.32	H
									H
									H
									H
	1672.8	-64.69	-13	-51.69	-75.62	-66.37	0.99	4.82	V
	2509.2	-63.81	-13	-50.81	-78.1	-65.77	1.29	5.41	V
	3344	-61.51	-13	-48.51	-79.44	-65.12	1.56	7.31	V
									V
									V
									V
Highest	1693.2	-62.52	-13	-49.52	-73.5	-64.13	1.00	4.76	H
	2539.8	-60.77	-13	-47.77	-75.26	-62.75	1.30	5.43	H
	3384	-61.33	-13	-48.33	-79.35	-65.1	1.57	7.49	H
									H
									H
									H
	1696	-64.81	-13	-51.81	-75.78	-66.41	1.00	4.75	V
	2539.8	-63.77	-13	-50.77	-78.27	-65.75	1.30	5.43	V
	3386.4	-61.49	-13	-48.49	-79.51	-65.27	1.57	7.50	V
									V
									V
									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	-57.35	-13	-44.35	-76.02	-63.92	1.67	8.24	H
	5555	-50.67	-13	-37.67	-76.16	-57.74	2.66	9.72	H
	7410	-48.09	-13	-35.09	-81.49	-57.25	2.46	11.62	H
									H
									H
									H
	3707	-59.22	-13	-46.22	-77.89	-65.8	1.67	8.25	V
	5562	-54.24	-13	-41.24	-79.75	-61.3	2.66	9.72	V
	7410	-49.04	-13	-36.04	-82.46	-58.2	2.46	11.62	V
									V
									V
									V
Middle	3763	-57.92	-13	-44.92	-76.66	-64.55	1.69	8.32	H
	5639	-47.57	-13	-34.57	-73.39	-54.62	2.71	9.76	H
	7522	-48.63	-13	-35.63	-82.38	-58.02	2.42	11.81	H
									H
									H
									H
	3756	-59.33	-13	-46.33	-78.06	-65.95	1.68	8.31	V
	5646	-53.50	-13	-40.50	-79.31	-60.55	2.71	9.76	V
	7522	-49.16	-13	-36.16	-82.87	-58.55	2.42	11.81	V
									V
									V
									V
Highest	3819	-54.59	-13	-41.59	-73.41	-61.27	1.70	8.38	H
	5723	-48.53	-13	-35.53	-74.68	-55.57	2.75	9.79	H
	7634	-48.36	-13	-35.36	-82.27	-57.85	2.39	11.88	H
									H
									H
									H
	3819	-58.30	-13	-45.30	-77.12	-64.98	1.70	8.38	V
	5723	-51.13	-13	-38.13	-77.26	-58.17	2.75	9.79	V
	7634	-48.80	-13	-35.80	-82.7	-58.29	2.39	11.88	V
									V
									V
									V

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



WCDMA Band IV(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	3420	-58.35	-13	-45.35	-76.39	-64.42	1.58	7.65	H
	5135	-55.44	-13	-42.44	-79.53	-62.73	2.41	9.70	H
	6843	-51.83	-13	-38.83	-83.4	-59.8	2.64	10.61	H
									H
									H
									H
	3420	-58.21	-13	-45.21	-76.35	-64.28	1.58	7.65	V
	5135	-53.07	-13	-40.07	-77.26	-60.36	2.41	9.70	V
	6843	-51.76	-13	-38.76	-83.3	-59.73	2.64	10.61	V
									V
									V
									V
Middle	3462	-58.05	-13	-45.05	-76.27	-64.29	1.59	7.83	H
	5196	-52.07	-13	-39.07	-76.51	-59.32	2.45	9.70	H
	6927	-50.61	-13	-37.61	-82.6	-58.71	2.61	10.71	H
									H
									H
									H
	3462	-57.78	-13	-44.78	-75.97	-64.02	1.59	7.83	V
	5196	-47.80	-13	-34.80	-72.21	-55.05	2.45	9.70	V
	6927	-50.72	-13	-37.72	-82.64	-58.82	2.61	10.71	V
									V
									V
									V
Highest	3504	-60.36	-13	-47.36	-78.63	-66.76	1.61	8.00	H
	5261	-53.90	-13	-40.90	-78.58	-61.11	2.49	9.70	H
	7011	-49.95	-13	-36.95	-82.13	-58.19	2.59	10.82	H
									H
									H
									H
	3504	-58.61	-13	-45.61	-76.91	-65.01	1.61	8.00	V
	5261	-49.12	-13	-36.12	-73.79	-56.33	2.49	9.70	V
	7011	-49.54	-13	-36.54	-81.85	-57.78	2.59	10.82	V
									V
									V
									V

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



CDMA BC0(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	1648	-62.31	-13	-49.31	-73.18	-64.07	0.98	4.89	H
	2472	-63.24	-13	-50.24	-77.37	-65.12	1.28	5.32	H
	3296	-61.51	-13	-48.51	-79.31	-64.92	1.54	7.10	H
									H
									H
									H
	1648	-64.75	-13	-51.75	-75.62	-66.51	0.98	4.89	V
	2472	-65.01	-13	-52.01	-79.12	-66.89	1.28	5.32	V
	3296	-61.89	-13	-48.89	-79.68	-65.3	1.54	7.10	V
									V
									V
									V
Middle	1672	-64.41	-13	-51.41	-75.36	-66.09	0.99	4.82	H
	2512	-61.36	-13	-48.36	-75.67	-63.33	1.29	5.41	H
	3346	-62.19	-13	-49.19	-80.11	-65.81	1.56	7.32	H
									H
									H
									H
	1672	-64.19	-13	-51.19	-75.12	-65.87	0.99	4.82	V
	2512	-63.62	-13	-50.62	-77.91	-65.59	1.29	5.41	V
	3346	-61.73	-13	-48.73	-79.65	-65.35	1.56	7.32	V
									V
									V
									V
Highest	1696	-61.33	-13	-48.33	-72.31	-62.93	1.00	4.75	H
	2544	-64.17	-13	-51.17	-78.67	-66.15	1.30	5.44	H
	3393.24	-62.31	-13	-49.31	-80.4	-66.12	1.57	7.53	H
									H
									H
									H
	1696	-64.10	-13	-51.10	-75.09	-65.7	1.00	4.75	V
	2544	-64.96	-13	-51.96	-79.44	-66.94	1.30	5.44	V
	3393.24	-62.23	-13	-49.23	-80.29	-66.04	1.57	7.53	V
									V
									V
									V

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



CDMA BC0(1xEVDO Rev.A)									
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	-64.11	-13	-51.11	-75.04	-65.87	0.98	4.89	H
	2472	-62.77	-13	-49.77	-76.98	-64.65	1.28	5.32	H
	3296	-60.47	-13	-47.47	-77.99	-63.88	1.54	7.10	H
									H
									H
									H
	1648	-65.13	-13	-52.13	-76.02	-66.89	0.98	4.89	V
	2472	-65.11	-13	-52.11	-79.16	-66.99	1.28	5.32	V
	3296	-61.37	-13	-48.37	-79.25	-64.78	1.54	7.10	V
									V
									V
									V
Middle	1672	-59.64	-13	-46.64	-70.53	-61.32	0.99	4.82	H
	2512	-53.67	-13	-40.67	-67.97	-55.64	1.29	5.41	H
	3344	-61.77	-13	-48.77	-79.71	-65.38	1.56	7.31	H
									H
									H
									H
	1672	-58.79	-13	-45.79	-69.7	-60.47	0.99	4.82	V
	2512	-53.85	-13	-40.85	-68.1	-55.82	1.29	5.41	V
	3344	-61.92	-13	-48.92	-79.9	-65.53	1.56	7.31	V
									V
									V
									V
Highest	1696	-59.60	-13	-46.60	-70.56	-61.2	1.00	4.75	H
	2544	-64.53	-13	-51.53	-78.98	-66.51	1.30	5.44	H
	3392	-62.34	-13	-49.34	-80.39	-66.14	1.57	7.52	H
									H
									H
									H
	1696	-63.26	-13	-50.26	-74.24	-64.86	1.00	4.75	V
	2544	-63.74	-13	-50.74	-78.18	-65.72	1.30	5.44	V
	3392	-62.35	-13	-49.35	-80.4	-66.15	1.57	7.52	V
									V
									V
									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	-55.23	-13	-42.23	-73.87	-61.8	1.67	8.24	H
	5555	-41.25	-13	-28.25	-66.74	-48.32	2.66	9.72	H
	7403	-43.00	-13	-30.00	-76.43	-52.15	2.46	11.61	H
	9258	-39.70	-13	-26.70	-76.75	-49.76	2.54	12.60	H
									H
									H
	3700	-56.03	-13	-43.03	-74.68	-62.6	1.67	8.24	V
	5555	-49.08	-13	-36.08	-74.58	-56.15	2.66	9.72	V
	7403	-47.55	-13	-34.55	-80.96	-56.7	2.46	11.61	V
	9258	-44.24	-13	-31.24	-81.3	-54.3	2.54	12.60	V
									V
									V
Middle	3763	-53.05	-13	-40.05	-71.81	-59.68	1.69	8.32	H
	5639	-43.45	-13	-30.45	-69.28	-50.5	2.71	9.76	H
	7522	-43.66	-13	-30.66	-77.38	-53.05	2.42	11.81	H
	9398	-42.71	-13	-29.71	-80.41	-52.68	2.57	12.54	H
									H
									H
	3763	-56.75	-13	-43.75	-75.52	-63.38	1.69	8.32	V
	5639	-50.11	-13	-37.11	-75.94	-57.16	2.71	9.76	V
	7522	-46.23	-13	-33.23	-79.95	-55.62	2.42	11.81	V
	9398	-44.93	-13	-31.93	-82.63	-54.9	2.57	12.54	V
									V
									V
Highest	3819	-50.34	-13	-37.34	-69.19	-57.02	1.70	8.38	H
	5730	-45.67	-13	-32.67	-71.82	-52.7	2.76	9.79	H
	7634	-43.22	-13	-30.22	-77.12	-52.71	2.39	11.88	H
									H
									H
									H
	3819	-55.82	-13	-42.82	-74.64	-62.5	1.70	8.38	V
	5730	-50.02	-13	-37.02	-76.17	-57.05	2.76	9.79	V
	7634	-46.32	-13	-33.32	-80.23	-55.81	2.39	11.88	V
									V
									V
									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	3700	-57.01	-13	-44.01	-75.72	-63.58	1.67	8.24	H
	5555	-44.95	-13	-31.95	-70.43	-52.02	2.66	9.72	H
	7403	-44.70	-13	-31.70	-78.18	-53.85	2.46	11.61	H
	9258	-41.80	-13	-28.80	-78.88	-51.86	2.54	12.60	H
									H
									H
	3700	-55.75	-13	-42.75	-74.4	-62.32	1.67	8.24	V
	5555	-48.54	-13	-35.54	-74.02	-55.61	2.66	9.72	V
	7403	-46.64	-13	-33.64	-80.14	-55.79	2.46	11.61	V
	9258	-38.16	-13	-25.16	-75.2	-48.22	2.54	12.60	V
									V
									V
Middle	3763	-57.72	-13	-44.72	-76.35	-64.35	1.69	8.32	H
	5639	-46.39	-13	-33.39	-72.05	-53.44	2.71	9.76	H
	7522	-44.07	-13	-31.07	-77.76	-53.46	2.42	11.81	H
	9398	-40.74	-13	-27.74	-78.4	-50.71	2.57	12.54	H
									H
									H
	3763	-56.19	-13	-43.19	-74.99	-62.82	1.69	8.32	V
	5639	-47.00	-13	-34.00	-72.81	-54.05	2.71	9.76	V
	7522	-45.73	-13	-32.73	-79.48	-55.12	2.42	11.81	V
	9398	-40.62	-13	-27.62	-78.28	-50.59	2.57	12.54	V
									V
									V
Highest	3819	-55.21	-13	-42.21	-74.06	-61.89	1.70	8.38	H
	5730	-48.06	-13	-35.06	-74.22	-55.09	2.76	9.79	H
	7634	-43.02	-13	-30.02	-76.96	-52.51	2.39	11.88	H
	9545	-42.26	-13	-29.26	-80.57	-52.13	2.60	12.47	H
									H
									H
	3819	-53.94	-13	-40.94	-72.75	-60.62	1.70	8.38	V
	5730	-45.85	-13	-32.85	-72	-52.88	2.76	9.79	V
	7634	-45.76	-13	-32.76	-79.66	-55.25	2.39	11.88	V
	9545	-41.90	-13	-28.90	-80.22	-51.77	2.60	12.47	V
									V
									V

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