



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1929-4(SS)
FCC ID : IHDT56XE1
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

This is partial report. The product was received on Jan. 18, 2018 and testing was completed on Mar. 02, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The 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.

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Approved by: Jones Tsai / Manager



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG811821A	Rev. 01	Initial issue of report	Mar. 05, 2018
FG811821A	Rev. 02	Revising CDMA BC0 Tx frequency range in section 1.6	Mar. 07, 2018



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§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	-
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	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 16.41 dB at 5730.000 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	XT1929-4(SS)
FCC ID	IHDT56XE1
IMEI Code	Conducted : IMEI: 351886090013043 Radiation : IMEI: 351886090015329
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/GNSS/NFC WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/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 1	Brand Name : Motorola
	Model Name : SC-22 SPN5970A
	Manufacturer : Salom
AC Adapter 2	Brand Name : Motorola
	Model Name : SC-22 SPN5993A
	Manufacturer : Chenyang
Battery	Brand Name : Motorola
	Model Name : JS40
	Manufacturer : SUNWODA
C2Audio Cable 1	Brand Name : Motorola
	Model Name : SC18C27844
	Manufacturer : Luxshare
C2Audio Cable 2	Brand Name : Motorola
	Model Name : SC18C27845
	Manufacturer : Cabletech
USB Cable 1	Brand Name : Cabletech
	Model Name : SKN6473A
USB Cable 2	Brand Name : FOXLINK
	Model Name : SKN6473A 17195-C 0403532
USB Cable 3	Brand Name : SAIBAO
	Model Name : SKN6473A 17214-C 1127044
USB Cable 4	Brand Name : Luxshare
	Model Name : SKN6473A 17227-C 1126538



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM/GPRS/EDGE: 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: 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: 1900: 29.73 dBm WCDMA: Band V: 22.76 dBm Band II: 22.76 dBm Band IV: 22.74 dBm CDMA2000: BC0: 24.00 dBm BC1: 23.80 dBm
Antenna Type	Dipole Antenna
Antenna Gain	Cellular Band: -5.6 dBi PCS Band: -2.1 dBi AWS Band: -2.0 dBi
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK (Uplink) HSDPA: 64QAM (Downlink) 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	Frequency Range (MHz)	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	826.4 ~ 846.6	WCDMA Band V RMC 12.2Kbps	BPSK	0.0317	0.0227 ppm	4M14F9W
Part 22	824.70 ~ 848.31	CDMA2000 BC0 1xRTT	QPSK	0.0421	0.0538 ppm	1M27F9W
Part 22	824.70 ~ 848.31	CDMA2000 BC0 1xEV-DO Rev. 0	QPSK	0.0422	0.0347 ppm	1M27F9W
Part 24	1850.2 ~ 1909.8	GSM1900 GPRS class 8	GMSK	0.5794	0.0245 ppm	251KGXW
Part 24	1850.2 ~ 1909.8	GSM1900 EDGE class 8	8PSK	0.2178	0.0090 ppm	249KG7W
Part 24	1852.4 ~ 1907.6	WCDMA Band II RMC 12.2Kbps	BPSK	0.1164	0.0090 ppm	4M14F9W
Part 24	1851.25 ~ 1908.75	CDMA2000 BC1 1xRTT	QPSK	0.1462	0.0128 ppm	1M27F9W
Part 24	1851.25 ~ 1908.75	CDMA2000 BC1 1xEV-DO Rev. 0	QPSK	0.1479	0.0176 ppm	1M27F9W
Part 27	1712.4 ~ 1752.6	WCDMA Band IV RMC 12.2Kbps	BPSK	0.1186	0.0058 ppm	4M14F9W

1.7 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, 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

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

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. 03CH13-HY

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

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 -603-E
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 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 WCDMA Band V and CDMA BC0.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II and CDMA BC1.

All modes and data rates and positions were investigated.

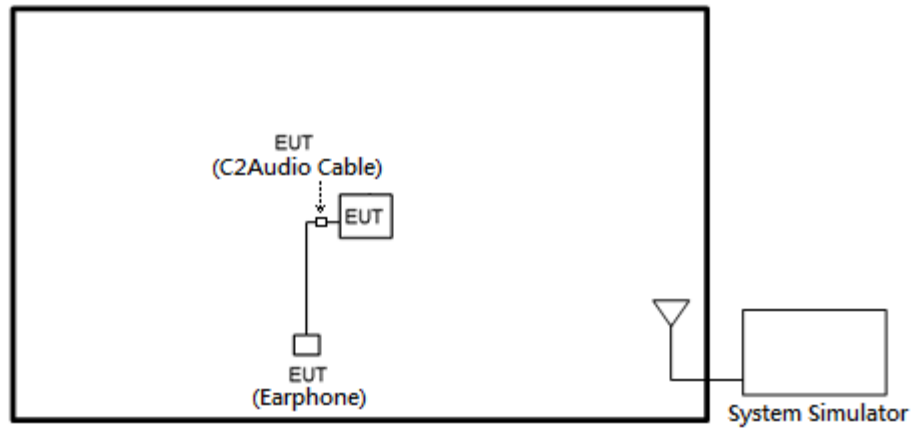
Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 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	■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link	■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link
CDMA BC1	■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link	■ 1xRTT Link ■ 1xEV-DO Rev. 0 Link

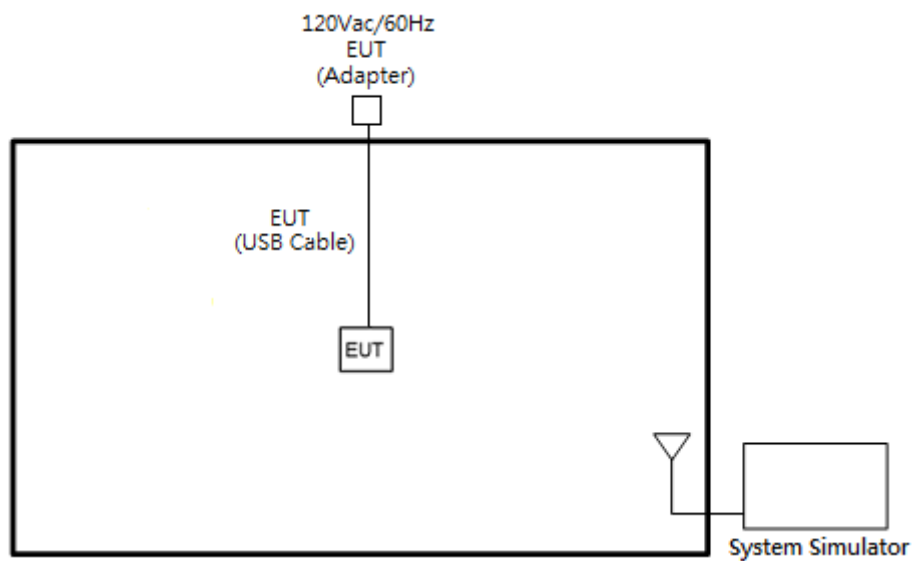
Remark: All the radiated test cases were performance with Adapter 1, C2Audio Cable 1, and USB Cable 1.

2.2 Connection Diagram of Test System

<EUT with Earphone>



<EUT with Adapter>





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.	Earphone	Motorola	SH38C16618	N/A	Unshielded, 1.2 m	N/A

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 :

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



2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
GSM1900	Channel	512	661	810
	Frequency	1850.2	1880.0	1909.8
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6
CDMA200 BC0	Channel	1013	384	777
	Frequency	824.7	836.52	848.31
CDMA200 BC1	Channel	25	600	1175
	Frequency	1851.25	1880.0	1908.75

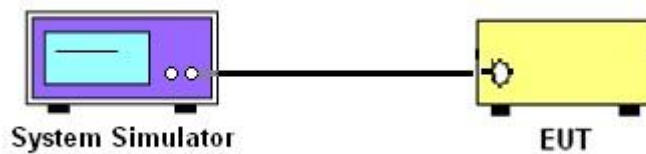
3 Conducted Test Result

3.1 Measuring Instruments

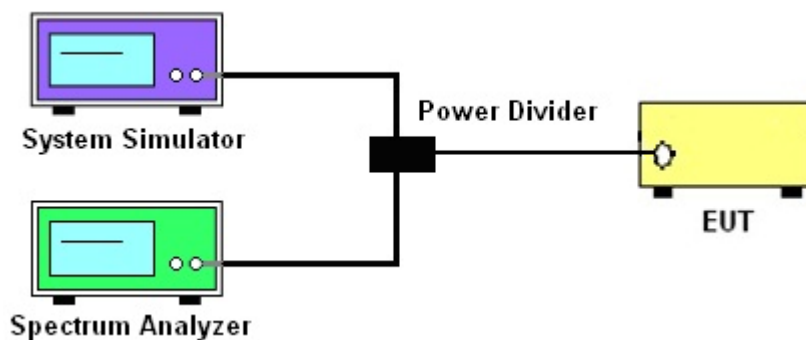
See list of measuring instruments of this test report.

3.2 Test Setup

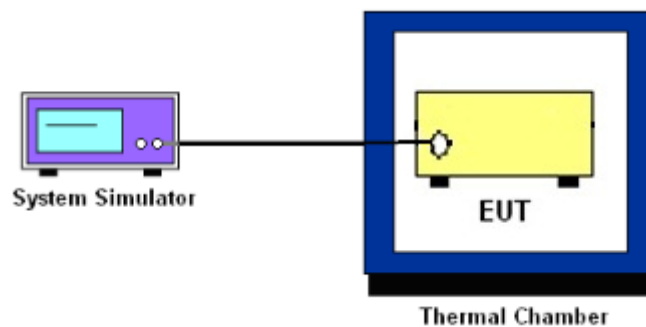
3.2.1 Conducted Output Power



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 and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

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

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

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

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 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 v03 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 v03 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 v03 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)



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 v03 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)

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 v03 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 v03 Section 9.0.
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ 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.

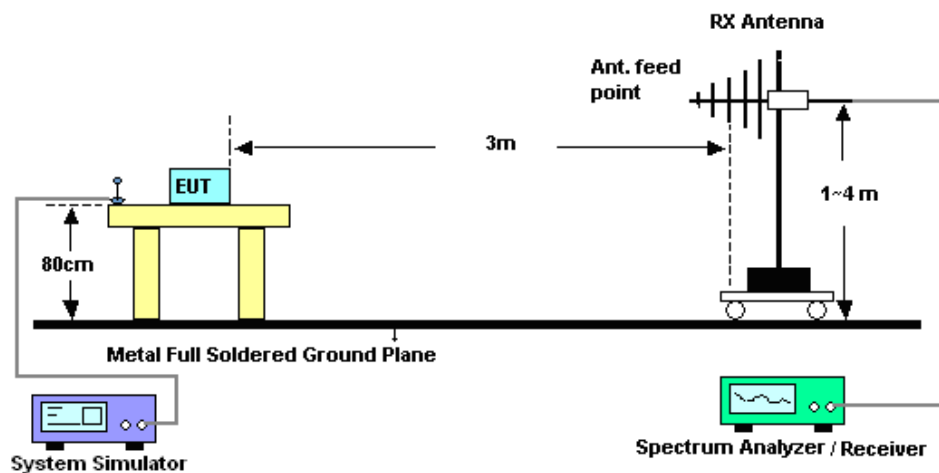
4 Radiated Test Items

4.1 Measuring Instruments

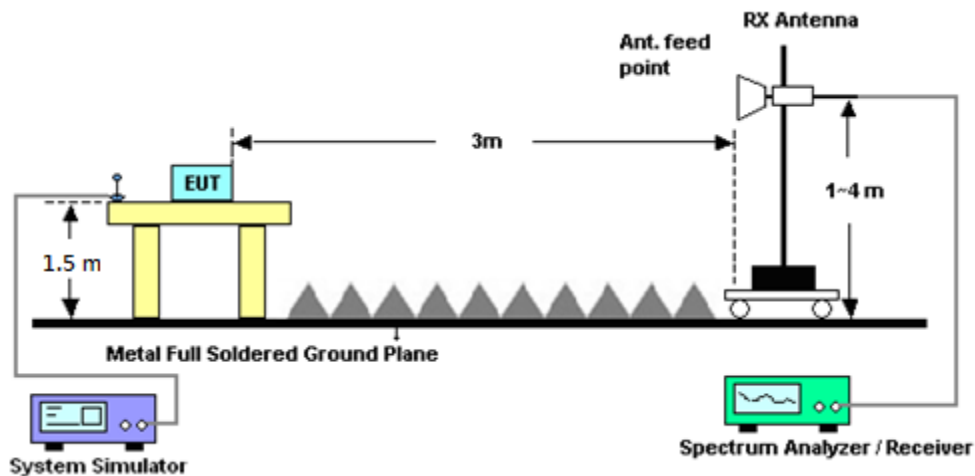
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 D01 v03 Section 5.8 and ANSI / TIA-603-E 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)



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. 26, 2017	Feb. 18, 2018	Jun. 25, 2018	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 16, 2016	Feb. 18, 2018	Nov. 15, 2018	Conducted (TH03-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL883644	Voltage:0~20V; Current:0~5A	Nov. 22, 2016	Feb. 18, 2018	Nov. 21, 2018	Conducted (TH03-HY)
Base Station(Measure)	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Aug. 09, 2017	Feb. 18, 2018	Aug. 08, 2018	Conducted (TH03-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Feb. 16, 2018~ Mar. 02, 2018	Jul. 17, 2018	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 21, 2016	Feb. 16, 2018~ Mar. 02, 2018	Dec. 20, 2018	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Jan. 10, 2018	Feb. 16, 2018~ Mar. 02, 2018	Jan. 09, 2019	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-124 1	1GHz ~ 18GHz	Jun. 15, 2017	Feb. 16, 2018~ Mar. 02, 2018	Jun. 14, 2018	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Feb. 16, 2018~ Mar. 02, 2018	May 21, 2018	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Feb. 02, 2018	Feb. 16, 2018~ Mar. 02, 2018	Feb. 01, 2019	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 15, 2017	Feb. 16, 2018~ Mar. 02, 2018	Mar. 14, 2018	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 16, 2018~ Mar. 02, 2018	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Feb. 16, 2018~ Mar. 02, 2018	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 16, 2018~ Mar. 02, 2018	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 251	18GHz- 40GHz	Nov. 10, 2017	Feb. 16, 2018~ Mar. 02, 2018	Nov. 09, 2018	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 27, 2017	Feb. 16, 2018~ Mar. 02, 2018	Nov. 26, 2018	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-152 2	1G~18GHz	Mar. 17, 2017	Feb. 16, 2018~ Mar. 02, 2018	Mar. 16, 2018	Radiation (03CH13-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	May 22, 2017	Feb. 16, 2018~ Mar. 02, 2018	May 21, 2018	Radiation (03CH13-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.07
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.48
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.92
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)			
Band	GSM1900		
Channel	512	661	810
Frequency	1850.2	1880	1909.8
GSM	29.72	29.56	29.35
GPRS class 8	29.73	29.58	29.36
GPRS class 10	28.35	28.38	28.32
GPRS class 11	26.74	26.82	26.87
GPRS class 12	24.86	25.04	25.17
EGPRS class 8	25.23	25.39	25.48
EGPRS class 10	24.31	24.26	24.28
EGPRS class 11	22.71	22.64	22.63
EGPRS class 12	21.07	21.04	21.08

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	22.64	22.76	22.60	22.76	22.71	22.73
HSDPA Subtest-1	21.67	21.74	21.57	21.65	21.73	21.77
HSDPA Subtest-2	21.71	21.75	21.64	21.74	21.77	21.76
HSDPA Subtest-3	21.18	21.31	21.06	21.17	21.21	21.27
HSDPA Subtest-4	21.15	20.93	21.11	21.16	21.26	21.33
HSUPA Subtest-1	21.70	21.80	21.58	21.86	21.76	21.82
HSUPA Subtest-2	19.67	19.77	19.60	19.91	19.76	19.83
HSUPA Subtest-3	20.68	20.78	20.59	20.88	20.75	20.84
HSUPA Subtest-4	19.68	19.76	19.58	19.84	19.80	19.87
HSUPA Subtest-5	21.70	21.80	21.60	21.80	21.80	21.80



Conducted Power (*Unit: dBm)			
Band	WCDMA Band IV		
Channel	1312	1413	1513
Frequency	1712.4	1732.6	1752.6
RMC 12.2K	22.62	22.60	22.74
HSDPA Subtest-1	21.53	21.56	21.54
HSDPA Subtest-2	21.55	21.57	21.56
HSDPA Subtest-3	21.01	21.11	21.06
HSDPA Subtest-4	21.01	21.10	21.09
HSUPA Subtest-1	21.56	21.64	21.63
HSUPA Subtest-2	19.61	19.64	19.54
HSUPA Subtest-3	20.57	20.68	20.65
HSUPA Subtest-4	19.57	19.73	19.68
HSUPA Subtest-5	21.60	21.60	21.51

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	23.85	23.96	23.99	23.72	23.63	23.52
1xRTT RC3 SO55	23.86	23.95	23.98	23.75	23.60	23.52
1xRTT RC3 SO32 (+ F-SCH)	23.84	23.95	23.98	23.74	23.63	23.50
1xRTT RC3 SO32 (+SCH)	23.85	23.95	23.96	23.72	23.64	23.52
1xEVDO RTAP 153.6Kbps	23.82	23.97	24.00	23.80	23.62	23.55
1xEVDO RETAP 4096Bits	23.85	23.97	23.90	23.79	23.63	23.54

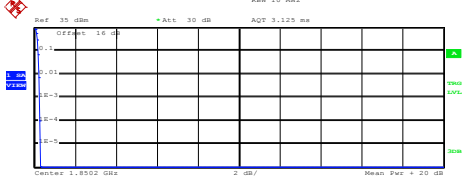
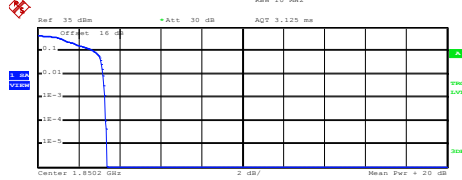
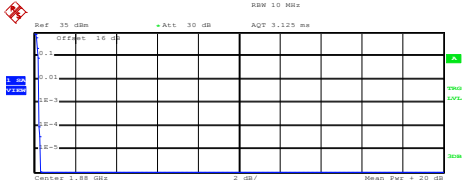
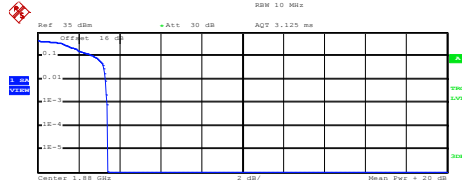
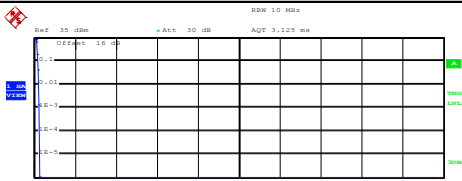
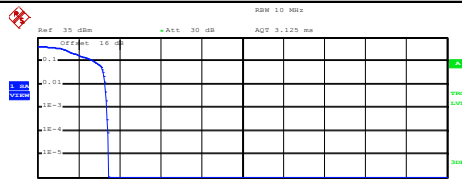


A2. GSM

Peak-to-Average Ratio

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.28	3.28	PASS
Middle CH	0.24	3.40	
Highest CH	0.24	3.40	

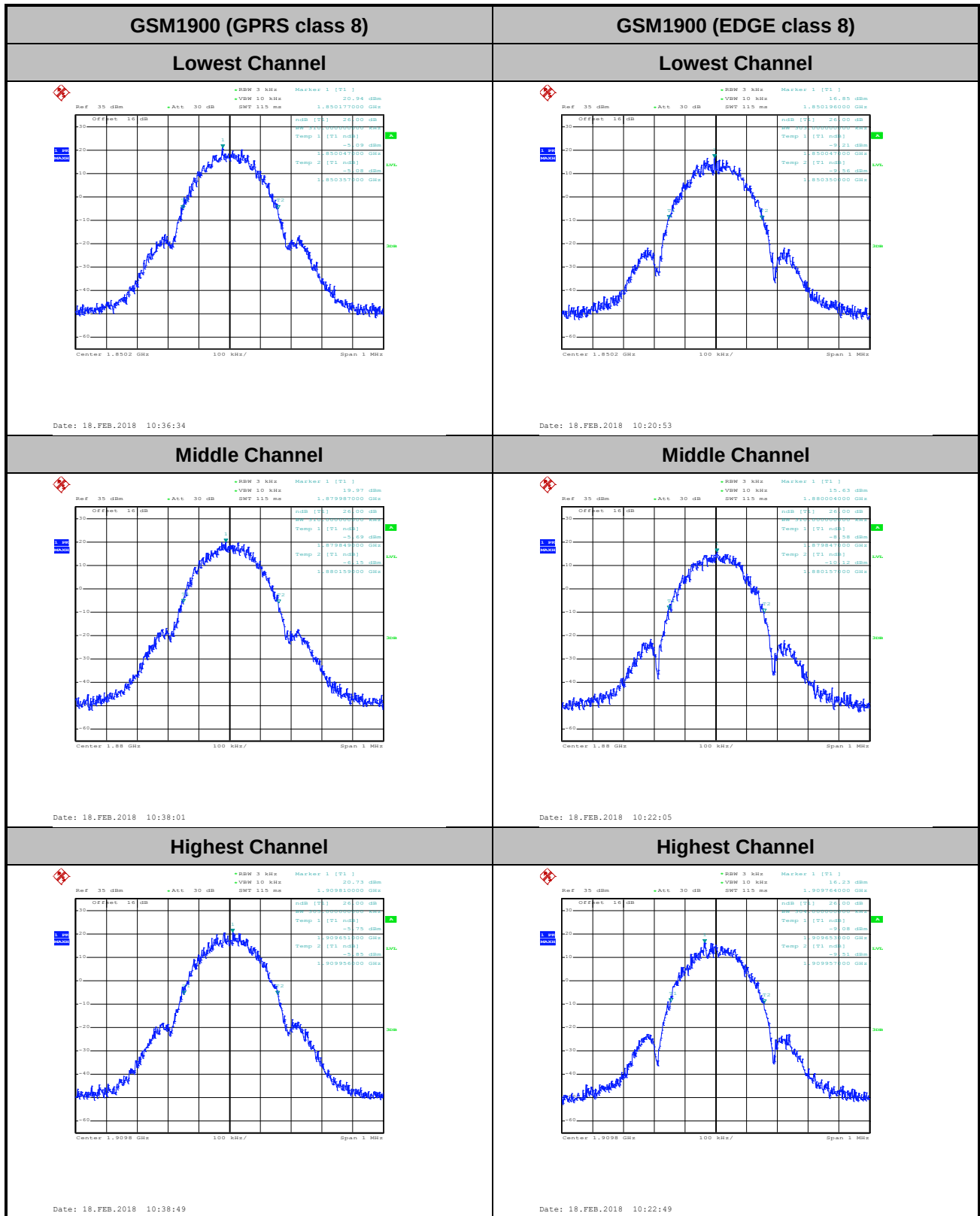


GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.8502 GHz, 2 dB/Hz, Mean: 27.68 dBm, Peak: 27.96 dBm, Crest: 0.28 dB 10 % 0.20 dB 1 % 0.24 dB .1 % 0.28 dB .01 % 0.28 dB Date: 18.FEB.2018 10:46:52		 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.8502 GHz, 2 dB/Hz, Mean: 23.66 dBm, Peak: 27.04 dBm, Crest: 3.38 dB 10 % 2.72 dB 1 % 3.20 dB .1 % 3.28 dB .01 % 3.32 dB Date: 18.FEB.2018 10:34:26	
Middle Channel		Middle Channel	
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.85 GHz, 2 dB/Hz, Mean: 27.65 dBm, Peak: 27.96 dBm, Crest: 0.31 dB 10 % 0.20 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB Date: 18.FEB.2018 10:47:08		 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.85 GHz, 2 dB/Hz, Mean: 23.54 dBm, Peak: 26.97 dBm, Crest: 3.43 dB 10 % 2.76 dB 1 % 3.32 dB .1 % 3.40 dB .01 % 3.44 dB Date: 18.FEB.2018 10:34:42	
Highest Channel		Highest Channel	
 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.9098 GHz, 2 dB/Hz, Mean: 27.50 dBm, Peak: 27.75 dBm, Crest: 0.24 dB 10 % 0.20 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.28 dB Date: 18.FEB.2018 10:47:28		 Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms, RSW: 10 MHz, Center: 1.9098 GHz, 2 dB/Hz, Mean: 23.52 dBm, Peak: 26.97 dBm, Crest: 3.45 dB 10 % 2.76 dB 1 % 3.28 dB .1 % 3.40 dB .01 % 3.44 dB Date: 18.FEB.2018 10:34:58	



26dB Bandwidth

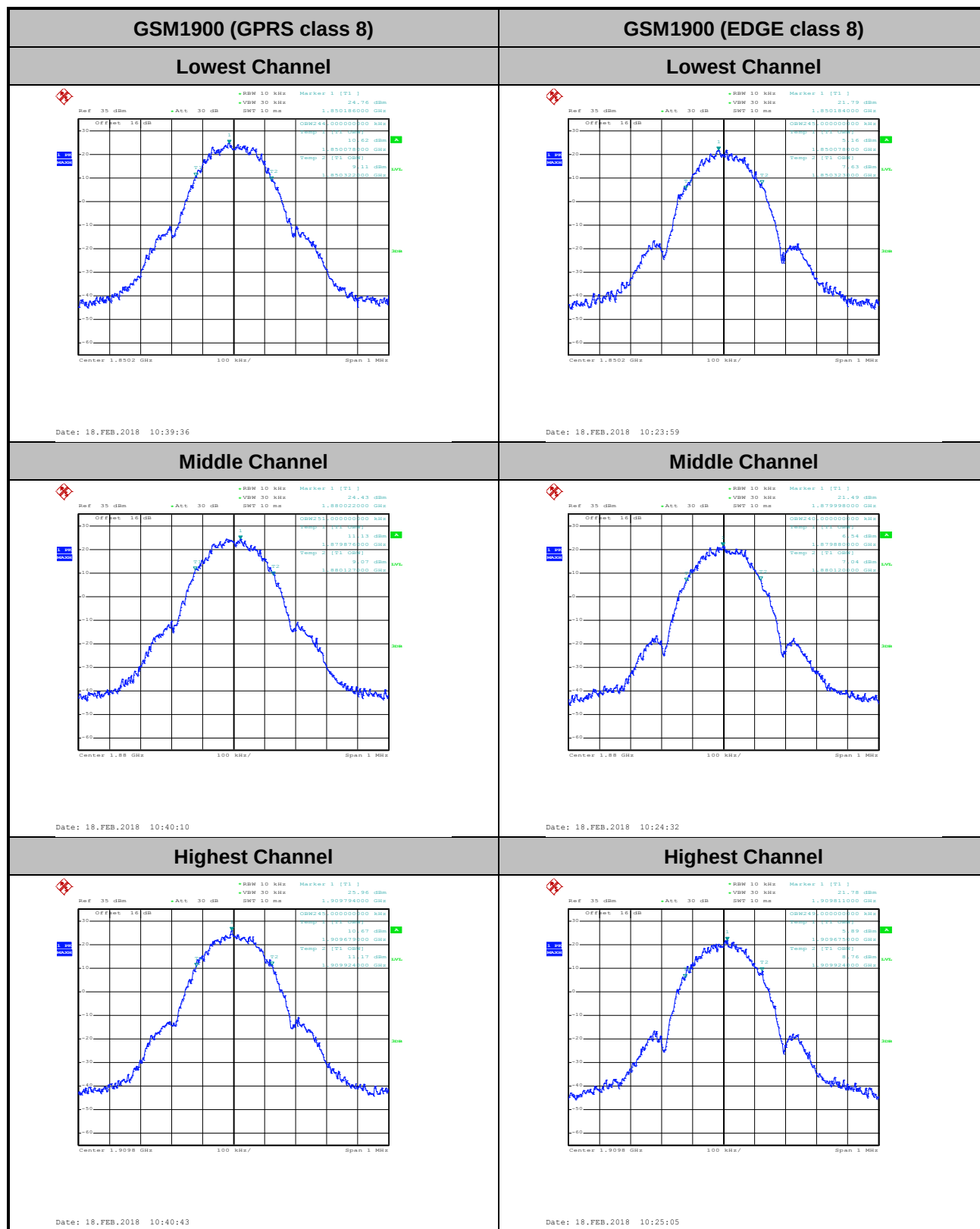
Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.310	0.303
Middle CH	0.310	0.310
Highest CH	0.305	0.304

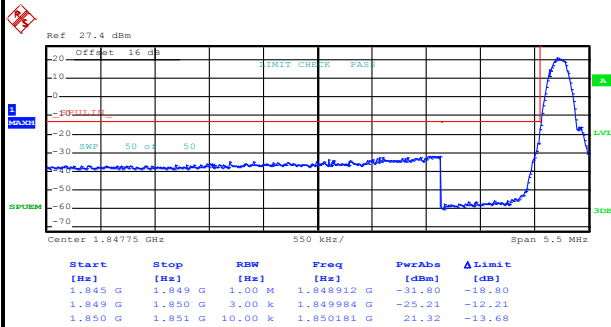




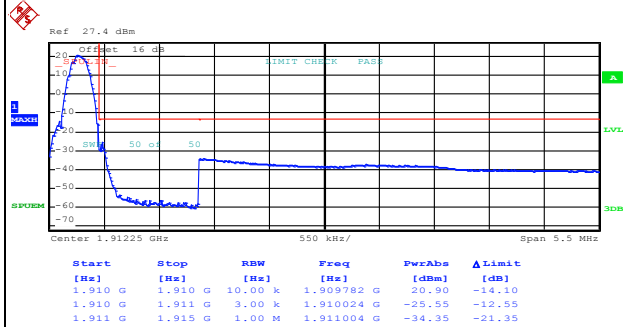
Occupied Bandwidth

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.244	0.245
Middle CH	0.251	0.240
Highest CH	0.245	0.249

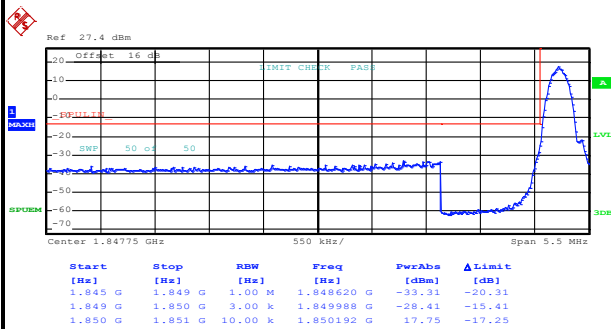


**Conducted Band Edge****GSM1900 (GPRS class 8)****Lowest Band Edge**

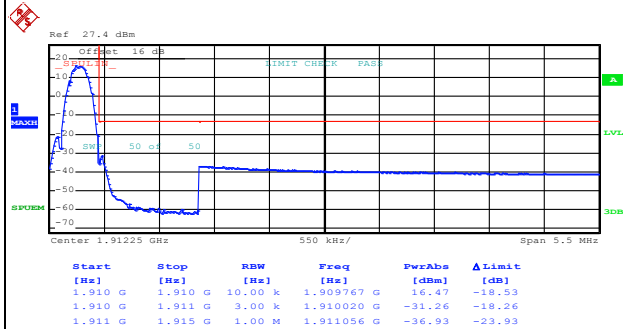
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Highest Band Edge

Date: 18.FEB.2018 10:43:48

GSM1900 (EDGE class 8)**Lowest Band Edge**

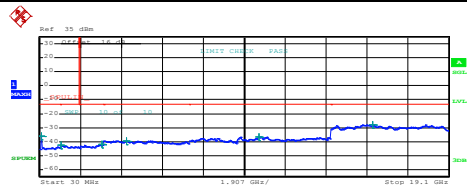
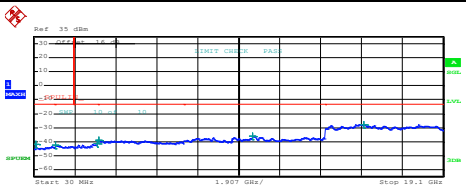
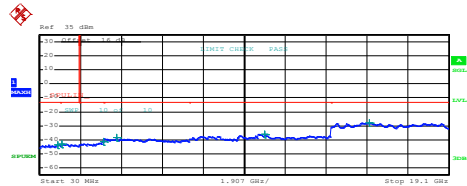
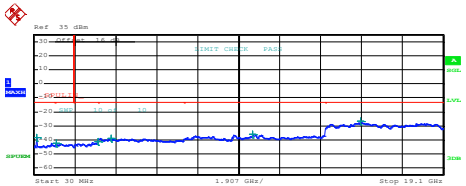
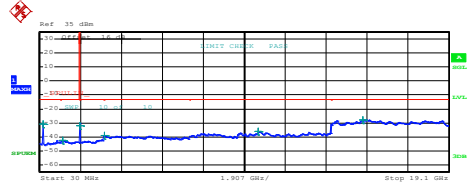
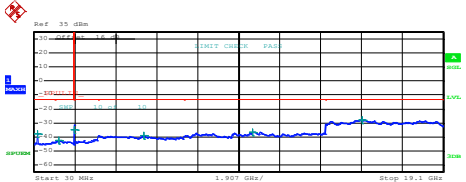
Date: 18.FEB.2018 10:26:39

Highest Band Edge

Date: 18.FEB.2018 10:30:51



Conducted Spurious Emission

GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)																																																																																																	
Lowest Channel		Lowest Channel																																																																																																	
<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>111.965000 M</td><td>-35.88</td><td>-22.88</td></tr><tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.020914 G</td><td>-42.77</td><td>-29.77</td></tr><tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.910759 G</td><td>-41.73</td><td>-28.73</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>4.074000 G</td><td>-39.47</td><td>-26.47</td></tr><tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.257100 G</td><td>-36.38</td><td>-23.38</td></tr><tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.566938 G</td><td>-27.93</td><td>-14.93</td></tr></table> Date: 18.FEB.2018 10:44:50		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	111.965000 M	-35.88	-22.88	1.000 G	1.845 G	1.00 M	1.020914 G	-42.77	-29.77	1.845 G	3.000 G	1.00 M	2.910759 G	-41.73	-28.73	3.000 G	7.000 G	1.00 M	4.074000 G	-39.47	-26.47	7.000 G	13.600 G	1.00 M	10.257100 G	-36.38	-23.38	13.600 G	19.100 G	1.00 M	15.566938 G	-27.93	-14.93	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>111.965000 M</td><td>-41.62</td><td>-28.62</td></tr><tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.034011 G</td><td>-42.55</td><td>-29.55</td></tr><tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.984268 G</td><td>-41.20</td><td>-28.20</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.027000 G</td><td>-39.17</td><td>-26.17</td></tr><tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.212550 G</td><td>-35.77</td><td>-22.77</td></tr><tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.382000 G</td><td>-27.81</td><td>-14.81</td></tr></table> Date: 18.FEB.2018 10:32:08		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	111.965000 M	-41.62	-28.62	1.000 G	1.845 G	1.00 M	1.034011 G	-42.55	-29.55	1.845 G	3.000 G	1.00 M	2.984268 G	-41.20	-28.20	3.000 G	7.000 G	1.00 M	3.027000 G	-39.17	-26.17	7.000 G	13.600 G	1.00 M	10.212550 G	-35.77	-22.77	13.600 G	19.100 G	1.00 M	15.382000 G	-27.81	-14.81
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																														
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																														
30.000 M	1.000 G	1.00 M	111.965000 M	-35.88	-22.88																																																																																														
1.000 G	1.845 G	1.00 M	1.020914 G	-42.77	-29.77																																																																																														
1.845 G	3.000 G	1.00 M	2.910759 G	-41.73	-28.73																																																																																														
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13.600 G	19.100 G	1.00 M	15.566938 G	-27.93	-14.93																																																																																														
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																														
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Middle Channel		Middle Channel																																																																																																	
<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>860.077500 M</td><td>-43.63</td><td>-30.63</td></tr><tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.067177 G</td><td>-42.92</td><td>-29.92</td></tr><tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.993219 G</td><td>-41.17</td><td>-28.17</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.666000 G</td><td>-38.57</td><td>-25.57</td></tr><tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.319450 G</td><td>-36.31</td><td>-23.31</td></tr><tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.398500 G</td><td>-27.66</td><td>-14.66</td></tr></table> Date: 18.FEB.2018 10:45:40		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	860.077500 M	-43.63	-30.63	1.000 G	1.845 G	1.00 M	1.067177 G	-42.92	-29.92	1.845 G	3.000 G	1.00 M	2.993219 G	-41.17	-28.17	3.000 G	7.000 G	1.00 M	3.666000 G	-38.57	-25.57	7.000 G	13.600 G	1.00 M	10.319450 G	-36.31	-23.31	13.600 G	19.100 G	1.00 M	15.398500 G	-27.66	-14.66	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>141.792500 M</td><td>-38.28</td><td>-25.28</td></tr><tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.036367 G</td><td>-42.75</td><td>-29.75</td></tr><tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>2.991049 G</td><td>-41.18</td><td>-28.18</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.625000 G</td><td>-39.07</td><td>-26.07</td></tr><tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.209250 G</td><td>-36.16</td><td>-23.16</td></tr><tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.237625 G</td><td>-26.50</td><td>-13.50</td></tr></table> Date: 18.FEB.2018 10:33:16		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	141.792500 M	-38.28	-25.28	1.000 G	1.845 G	1.00 M	1.036367 G	-42.75	-29.75	1.845 G	3.000 G	1.00 M	2.991049 G	-41.18	-28.18	3.000 G	7.000 G	1.00 M	3.625000 G	-39.07	-26.07	7.000 G	13.600 G	1.00 M	10.209250 G	-36.16	-23.16	13.600 G	19.100 G	1.00 M	15.237625 G	-26.50	-13.50
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																														
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																														
30.000 M	1.000 G	1.00 M	860.077500 M	-43.63	-30.63																																																																																														
1.000 G	1.845 G	1.00 M	1.067177 G	-42.92	-29.92																																																																																														
1.845 G	3.000 G	1.00 M	2.993219 G	-41.17	-28.17																																																																																														
3.000 G	7.000 G	1.00 M	3.666000 G	-38.57	-25.57																																																																																														
7.000 G	13.600 G	1.00 M	10.319450 G	-36.31	-23.31																																																																																														
13.600 G	19.100 G	1.00 M	15.398500 G	-27.66	-14.66																																																																																														
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																														
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																														
30.000 M	1.000 G	1.00 M	141.792500 M	-38.28	-25.28																																																																																														
1.000 G	1.845 G	1.00 M	1.036367 G	-42.75	-29.75																																																																																														
1.845 G	3.000 G	1.00 M	2.991049 G	-41.18	-28.18																																																																																														
3.000 G	7.000 G	1.00 M	3.625000 G	-39.07	-26.07																																																																																														
7.000 G	13.600 G	1.00 M	10.209250 G	-36.16	-23.16																																																																																														
13.600 G	19.100 G	1.00 M	15.237625 G	-26.50	-13.50																																																																																														
Highest Channel		Highest Channel																																																																																																	
<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>171.620000 M</td><td>-30.73</td><td>-17.73</td></tr><tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.099710 G</td><td>-42.68</td><td>-29.68</td></tr><tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>1.935271 G</td><td>-31.87</td><td>-18.87</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.045000 G</td><td>-39.24</td><td>-26.24</td></tr><tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.227400 G</td><td>-36.23</td><td>-23.23</td></tr><tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.078813 G</td><td>-27.75</td><td>-14.75</td></tr></table> Date: 18.FEB.2018 10:46:31		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	171.620000 M	-30.73	-17.73	1.000 G	1.845 G	1.00 M	1.099710 G	-42.68	-29.68	1.845 G	3.000 G	1.00 M	1.935271 G	-31.87	-18.87	3.000 G	7.000 G	1.00 M	3.045000 G	-39.24	-26.24	7.000 G	13.600 G	1.00 M	10.227400 G	-36.23	-23.23	13.600 G	19.100 G	1.00 M	15.078813 G	-27.75	-14.75	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbs</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30.000 M</td><td>1.000 G</td><td>1.00 M</td><td>171.862500 M</td><td>-37.95</td><td>-24.95</td></tr><tr><td>1.000 G</td><td>1.845 G</td><td>1.00 M</td><td>1.179985 G</td><td>-42.65</td><td>-29.65</td></tr><tr><td>1.845 G</td><td>3.000 G</td><td>1.00 M</td><td>1.935271 G</td><td>-35.04</td><td>-22.04</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.157000 G</td><td>-39.06</td><td>-26.06</td></tr><tr><td>7.000 G</td><td>13.600 G</td><td>1.00 M</td><td>10.210075 G</td><td>-36.37</td><td>-23.37</td></tr><tr><td>13.600 G</td><td>19.100 G</td><td>1.00 M</td><td>15.327688 G</td><td>-27.69</td><td>-14.69</td></tr></table> Date: 18.FEB.2018 10:34:06		Start	Stop	RBW	Freq	PerAbs	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	171.862500 M	-37.95	-24.95	1.000 G	1.845 G	1.00 M	1.179985 G	-42.65	-29.65	1.845 G	3.000 G	1.00 M	1.935271 G	-35.04	-22.04	3.000 G	7.000 G	1.00 M	3.157000 G	-39.06	-26.06	7.000 G	13.600 G	1.00 M	10.210075 G	-36.37	-23.37	13.600 G	19.100 G	1.00 M	15.327688 G	-27.69	-14.69
Start	Stop	RBW	Freq	PerAbs	ΔLimit																																																																																														
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																														
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7.000 G	13.600 G	1.00 M	10.227400 G	-36.23	-23.23																																																																																														
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1.845 G	3.000 G	1.00 M	1.935271 G	-35.04	-22.04																																																																																														
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13.600 G	19.100 G	1.00 M	15.327688 G	-27.69	-14.69																																																																																														

**Frequency Stability**

Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0021	0.0090	PASS
40	Normal Voltage	0.0032	0.0043	
30	Normal Voltage	0.0027	0.0032	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0080	0.0011	
0	Normal Voltage	0.0069	0.0090	
-10	Normal Voltage	0.0090	0.0005	
-20	Normal Voltage	0.0245	0.0090	
-30	Normal Voltage	0.0021	0.0085	
20	Maximum Voltage	0.0021	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0005	0.0011	

Note:

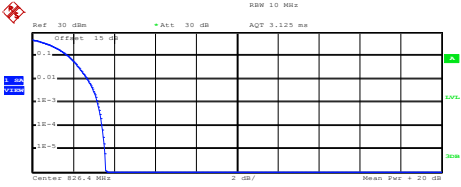
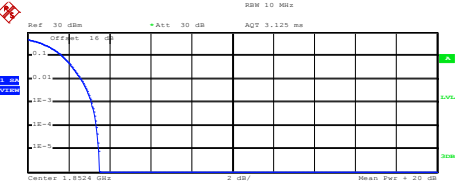
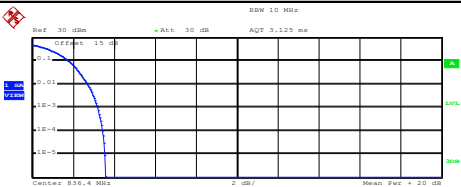
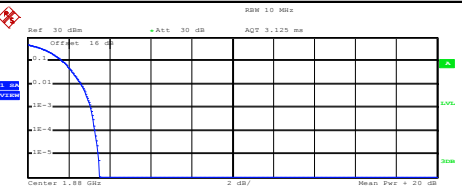
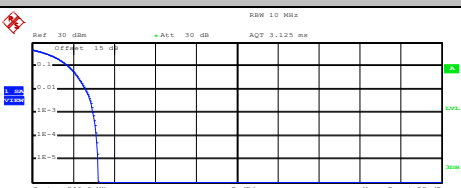
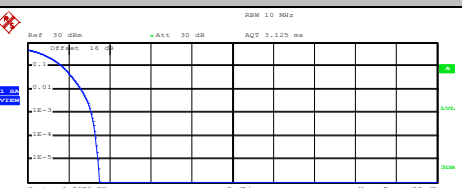
1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block.



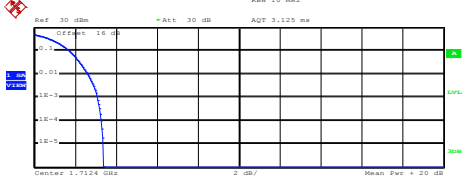
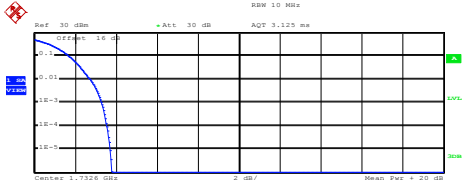
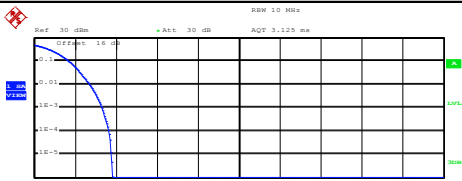
A3. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.20	3.12	3.08	PASS
Middle CH	3.20	3.08	3.28	
Highest CH	2.96	3.12	3.32	

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 21.54 dBm Peak 25.14 dBm Crest 3.60 dB 10 % 1.76 dB 1 % 2.68 dB .1 % 3.20 dB .01 % 3.40 dB Date: 18.FEB.2018 09:34:59	 Center 1.8524 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.94 dBm Peak 24.44 dBm Crest 3.50 dB 10 % 1.68 dB 1 % 2.60 dB .1 % 3.12 dB .01 % 3.36 dB Date: 18.FEB.2018 08:59:39
Middle Channel	Middle Channel
 Center 836.4 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.50 dBm Peak 25.07 dBm Crest 3.57 dB 10 % 1.80 dB 1 % 2.72 dB .1 % 3.20 dB .01 % 3.44 dB Date: 18.FEB.2018 09:35:19	 Center 1.85 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.00 dBm Peak 24.51 dBm Crest 3.51 dB 10 % 1.72 dB 1 % 2.60 dB .1 % 3.08 dB .01 % 3.28 dB Date: 18.FEB.2018 08:59:54
Highest Channel	Highest Channel
 Center 846.6 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.49 dBm Peak 24.72 dBm Crest 3.24 dB 10 % 1.76 dB 1 % 2.60 dB .1 % 2.96 dB .01 % 3.12 dB Date: 18.FEB.2018 09:35:34	 Center 1.9076 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.01 dBm Peak 24.51 dBm Crest 3.50 dB 10 % 1.68 dB 1 % 2.60 dB .1 % 3.12 dB .01 % 3.32 dB Date: 18.FEB.2018 09:00:08



WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center 1.7124 GHz 2 dB Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.84 dBm Peak 24.23 dBm Crest 3.39 dB 10 % 1.72 dB 1 % 2.64 dB .1 % 3.08 dB .01 % 3.28 dB Date: 18.FEB.2018 09:15:32	
Middle Channel	
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center 1.7326 GHz 2 dB Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.87 dBm Peak 24.65 dBm Crest 3.78 dB 10 % 1.72 dB 1 % 2.72 dB .1 % 3.28 dB .01 % 3.56 dB Date: 18.FEB.2018 09:15:46	
Highest Channel	
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center 1.7526 GHz 2 dB Mean Pwr + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.03 dBm Peak 24.86 dBm Crest 3.83 dB 10 % 1.72 dB 1 % 2.72 dB .1 % 3.32 dB .01 % 3.64 dB Date: 18.FEB.2018 09:16:01	

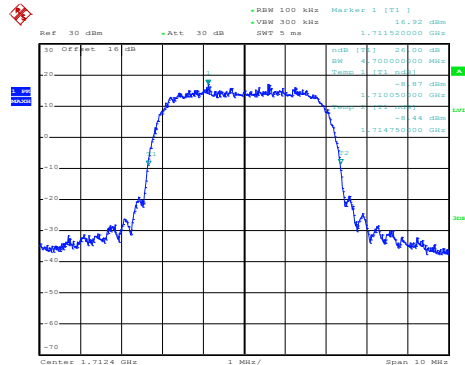


26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.70	4.70	4.70
Middle CH	4.71	4.72	4.71
Highest CH	4.73	4.70	4.72

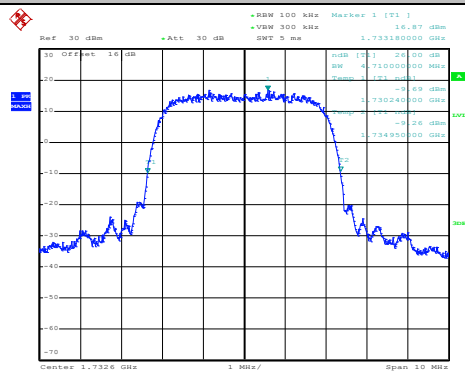
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



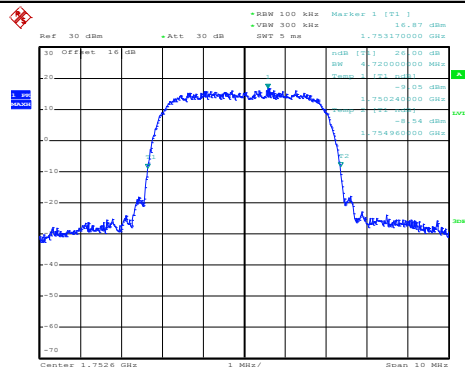
Date: 18.FEB.2018 09:01:29

Middle Channel



Date: 18.FEB.2018 09:02:03

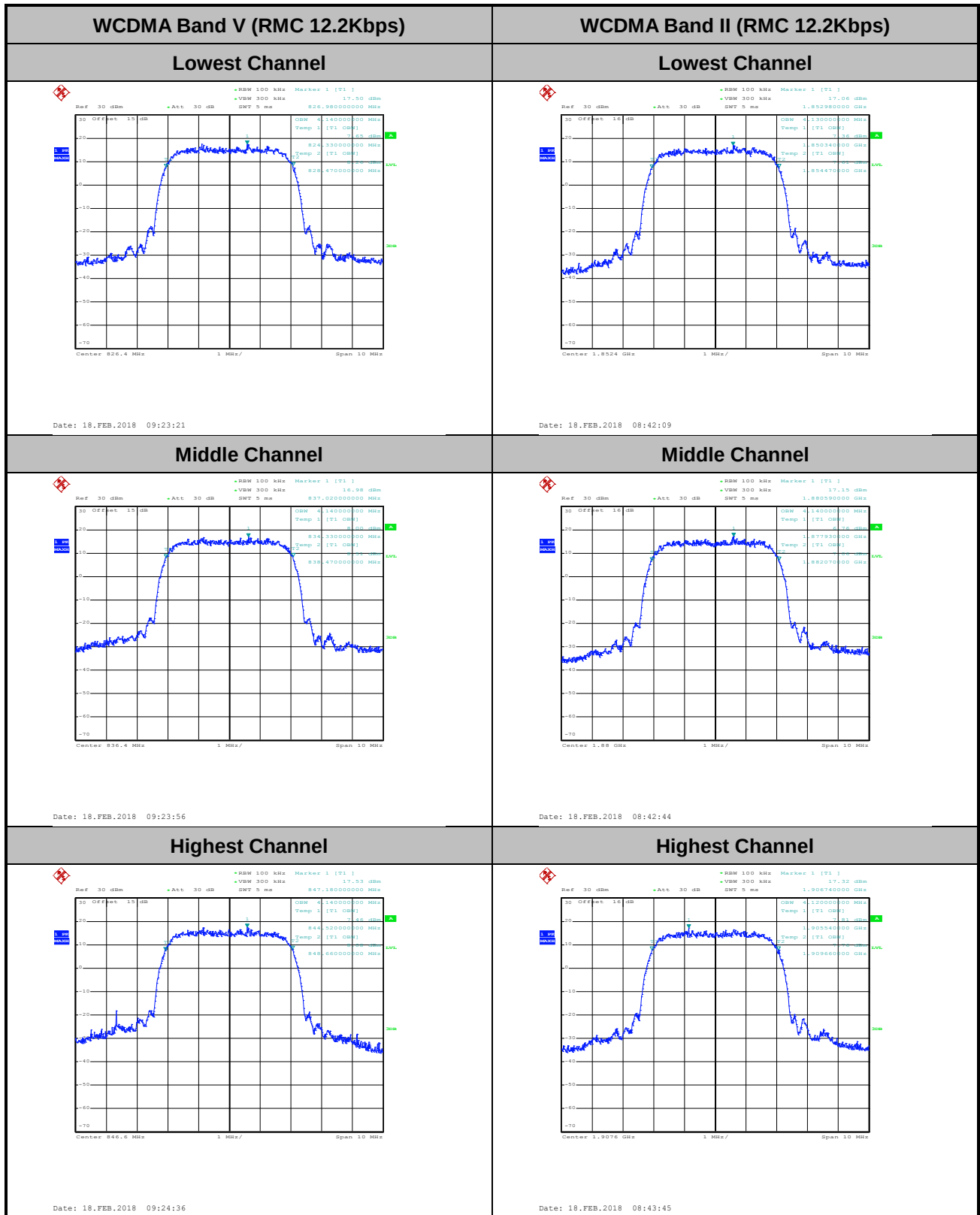
Highest Channel



Date: 18.FEB.2018 09:02:38

**Occupied Bandwidth**

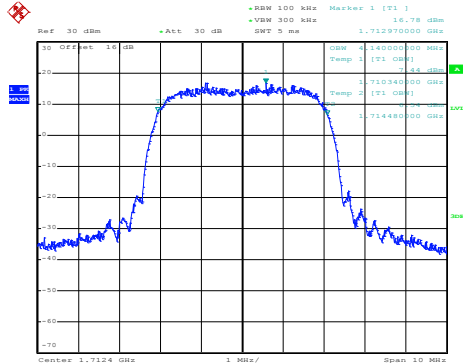
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.13	4.14
Middle CH	4.14	4.14	4.14
Highest CH	4.14	4.12	4.13





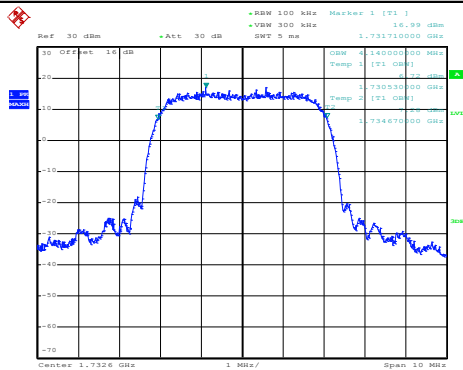
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



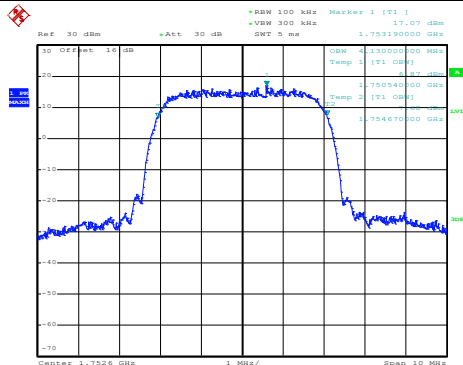
Date: 18.FEB.2018 09:03:15

Middle Channel



Date: 18.FEB.2018 09:03:49

Highest Channel



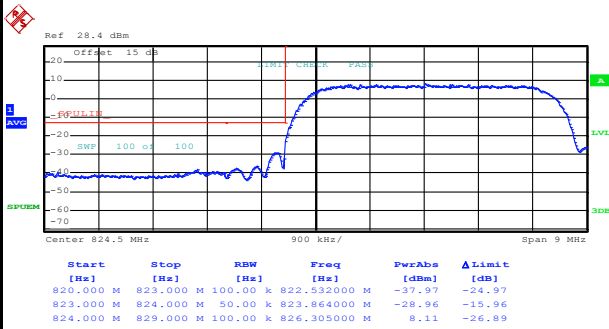
Date: 18.FEB.2018 09:04:26



Conducted Band Edge

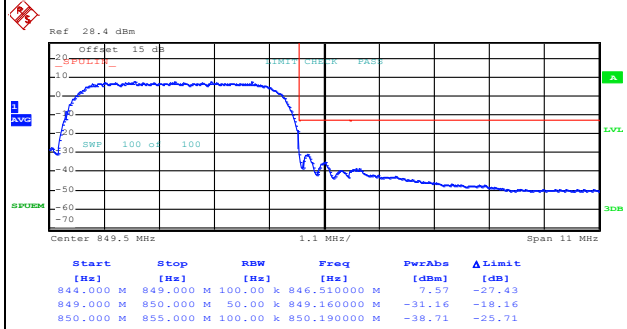
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 18.FEB.2018 09:28:50

Highest Band Edge

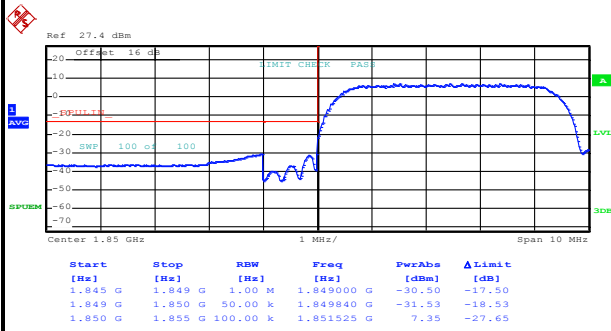


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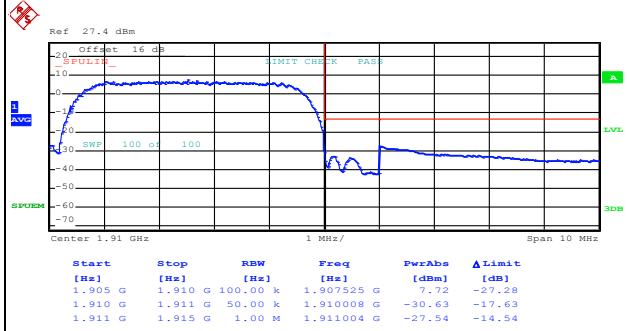
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 18.FEB.2018 08:51:34

Highest Band Edge

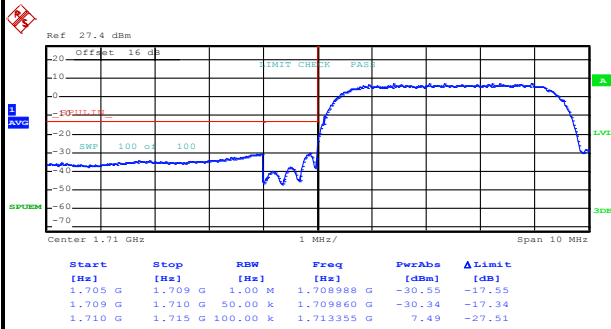


Date: 18.FEB.2018 08:54:20



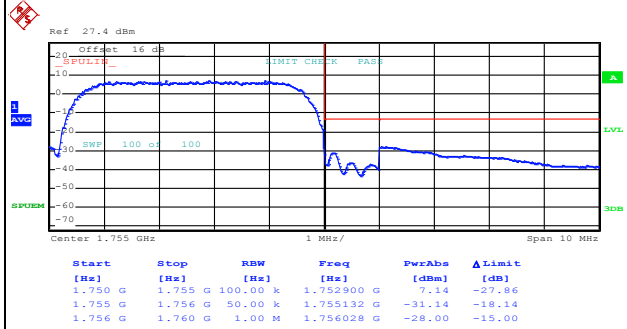
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Date: 18.FEB.2018 09:07:17

Highest Band Edge



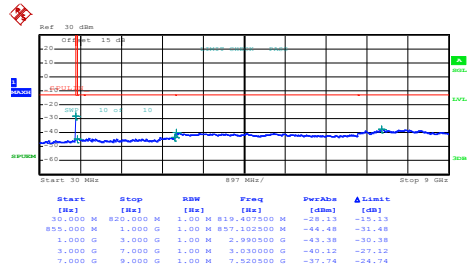
Date: 18.FEB.2018 09:10:06



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

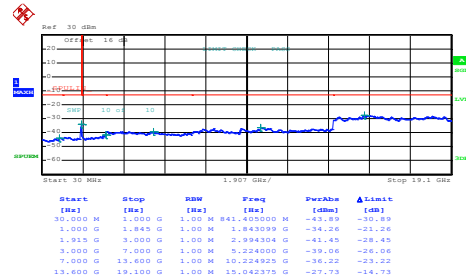
Lowest Channel



Date: 18.FEB.2018 09:32:35

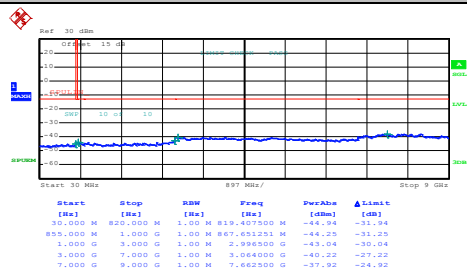
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



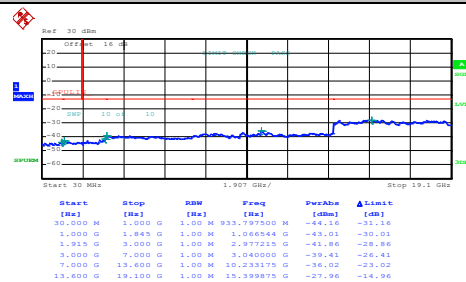
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Middle Channel



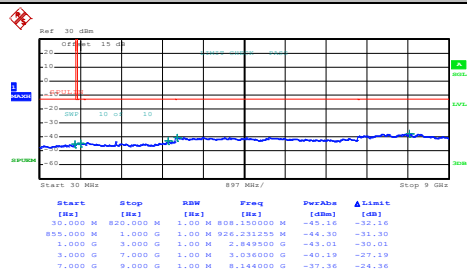
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Middle Channel



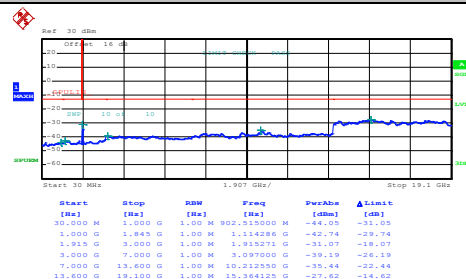
Date: 18.FEB.2018 08:58:18

Highest Channel



Date: 18.FEB.2018 09:34:14

Highest Channel

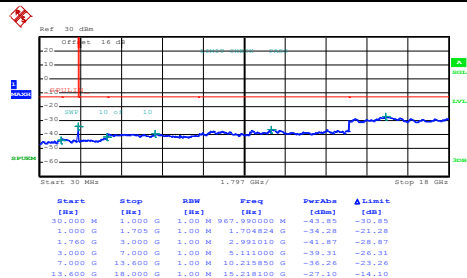


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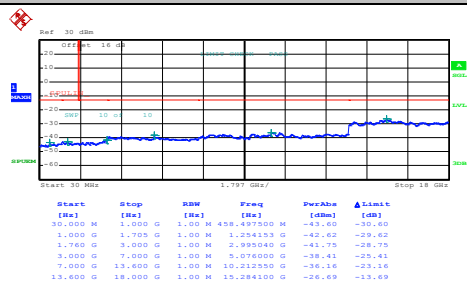
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



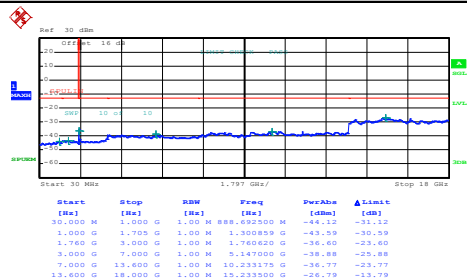
Date: 18.FEB.2018 09:13:02

Middle Channel



Date: 18.FEB.2018 09:14:22

Highest Channel



Date: 18.FEB.2018 09:15:13

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0036	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0227	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0179	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0090	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0035	
-10	Normal Voltage	0.0058	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block.



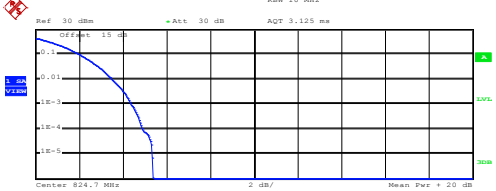
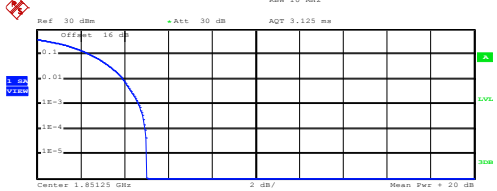
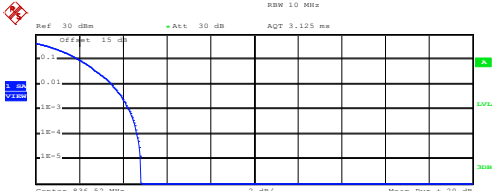
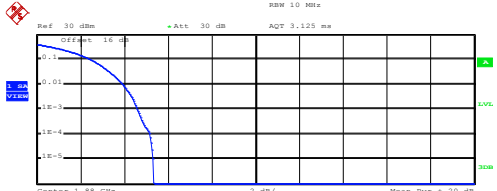
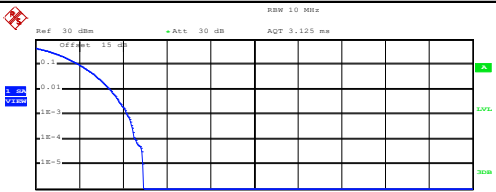
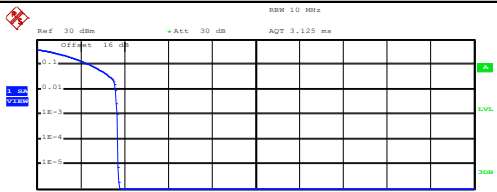
A4. CDMA

Peak-to-Average Ratio

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xRTT	1xRTT	Result
Lowest CH	4.40	4.68	PASS
Middle CH	4.28	4.60	
Highest CH	4.20	3.68	

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. 0	Result
Lowest CH	4.56	4.64	PASS
Middle CH	4.48	4.64	
Highest CH	4.24	4.04	



CDMA BC0 (1xRTT)	CDMA BC1 (1xRTT)																												
Lowest Channel	Lowest Channel																												
 Center 824.7 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.61 dBm</td></tr><tr><td>Peak</td><td>26.98 dBm</td></tr><tr><td>Crest</td><td>5.37 dB</td></tr></table> <table><tr><td>10 %</td><td>2.04 dB</td></tr><tr><td>1 %</td><td>3.52 dB</td></tr><tr><td>.1 %</td><td>4.40 dB</td></tr><tr><td>.01 %</td><td>4.92 dB</td></tr></table> Date: 18.FEB.2018 12:24:46	Mean	21.61 dBm	Peak	26.98 dBm	Crest	5.37 dB	10 %	2.04 dB	1 %	3.52 dB	.1 %	4.40 dB	.01 %	4.92 dB	 Center 1.85125 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>22.30 dBm</td></tr><tr><td>Peak</td><td>27.33 dBm</td></tr><tr><td>Crest</td><td>5.03 dB</td></tr></table> <table><tr><td>10 %</td><td>2.48 dB</td></tr><tr><td>1 %</td><td>3.96 dB</td></tr><tr><td>.1 %</td><td>4.68 dB</td></tr><tr><td>.01 %</td><td>4.96 dB</td></tr></table> Date: 18.FEB.2018 12:59:32	Mean	22.30 dBm	Peak	27.33 dBm	Crest	5.03 dB	10 %	2.48 dB	1 %	3.96 dB	.1 %	4.68 dB	.01 %	4.96 dB
Mean	21.61 dBm																												
Peak	26.98 dBm																												
Crest	5.37 dB																												
10 %	2.04 dB																												
1 %	3.52 dB																												
.1 %	4.40 dB																												
.01 %	4.92 dB																												
Mean	22.30 dBm																												
Peak	27.33 dBm																												
Crest	5.03 dB																												
10 %	2.48 dB																												
1 %	3.96 dB																												
.1 %	4.68 dB																												
.01 %	4.96 dB																												
Middle Channel	Middle Channel																												
 Center 836.52 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.24 dBm</td></tr><tr><td>Peak</td><td>26.06 dBm</td></tr><tr><td>Crest</td><td>4.82 dB</td></tr></table> <table><tr><td>10 %</td><td>2.00 dB</td></tr><tr><td>1 %</td><td>3.48 dB</td></tr><tr><td>.1 %</td><td>4.28 dB</td></tr><tr><td>.01 %</td><td>4.64 dB</td></tr></table> Date: 18.FEB.2018 12:25:04	Mean	21.24 dBm	Peak	26.06 dBm	Crest	4.82 dB	10 %	2.00 dB	1 %	3.48 dB	.1 %	4.28 dB	.01 %	4.64 dB	 Center 1.88 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>22.12 dBm</td></tr><tr><td>Peak</td><td>27.47 dBm</td></tr><tr><td>Crest</td><td>5.35 dB</td></tr></table> <table><tr><td>10 %</td><td>2.48 dB</td></tr><tr><td>1 %</td><td>3.92 dB</td></tr><tr><td>.1 %</td><td>4.60 dB</td></tr><tr><td>.01 %</td><td>5.16 dB</td></tr></table> Date: 18.FEB.2018 12:59:46	Mean	22.12 dBm	Peak	27.47 dBm	Crest	5.35 dB	10 %	2.48 dB	1 %	3.92 dB	.1 %	4.60 dB	.01 %	5.16 dB
Mean	21.24 dBm																												
Peak	26.06 dBm																												
Crest	4.82 dB																												
10 %	2.00 dB																												
1 %	3.48 dB																												
.1 %	4.28 dB																												
.01 %	4.64 dB																												
Mean	22.12 dBm																												
Peak	27.47 dBm																												
Crest	5.35 dB																												
10 %	2.48 dB																												
1 %	3.92 dB																												
.1 %	4.60 dB																												
.01 %	5.16 dB																												
Highest Channel	Highest Channel																												
 Center 848.31 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>21.91 dBm</td></tr><tr><td>Peak</td><td>26.84 dBm</td></tr><tr><td>Crest</td><td>4.93 dB</td></tr></table> <table><tr><td>10 %</td><td>2.04 dB</td></tr><tr><td>1 %</td><td>3.44 dB</td></tr><tr><td>.1 %</td><td>4.20 dB</td></tr><tr><td>.01 %</td><td>4.60 dB</td></tr></table> Date: 18.FEB.2018 12:25:18	Mean	21.91 dBm	Peak	26.84 dBm	Crest	4.93 dB	10 %	2.04 dB	1 %	3.44 dB	.1 %	4.20 dB	.01 %	4.60 dB	 Center 1.90875 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>22.08 dBm</td></tr><tr><td>Peak</td><td>25.85 dBm</td></tr><tr><td>Crest</td><td>3.77 dB</td></tr></table> <table><tr><td>10 %</td><td>2.44 dB</td></tr><tr><td>1 %</td><td>3.60 dB</td></tr><tr><td>.1 %</td><td>3.68 dB</td></tr><tr><td>.01 %</td><td>3.72 dB</td></tr></table> Date: 18.FEB.2018 13:00:03	Mean	22.08 dBm	Peak	25.85 dBm	Crest	3.77 dB	10 %	2.44 dB	1 %	3.60 dB	.1 %	3.68 dB	.01 %	3.72 dB
Mean	21.91 dBm																												
Peak	26.84 dBm																												
Crest	4.93 dB																												
10 %	2.04 dB																												
1 %	3.44 dB																												
.1 %	4.20 dB																												
.01 %	4.60 dB																												
Mean	22.08 dBm																												
Peak	25.85 dBm																												
Crest	3.77 dB																												
10 %	2.44 dB																												
1 %	3.60 dB																												
.1 %	3.68 dB																												
.01 %	3.72 dB																												



CDMA BC0 (1xEV-DO Rev. 0)	CDMA BC1 (1xEV-DO Rev. 0)
Lowest Channel	Lowest Channel
Ref: 30 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz, Center: 824.7 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.63 dBm Peak 26.41 dBm Crest 5.79 dB 10 % 2.04 dB 1 % 3.52 dB .1 % 4.56 dB .01 % 5.32 dB Date: 18.FEB.2018 12:26:35	Ref: 30 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz, Center: 1.85125 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.29 dBm Peak 27.61 dBm Crest 5.32 dB 10 % 2.52 dB 1 % 3.92 dB .1 % 4.64 dB .01 % 5.12 dB Date: 18.FEB.2018 13:14:42
Middle Channel	Middle Channel
Ref: 30 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz, Center: 836.52 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 20.98 dBm Peak 26.06 dBm Crest 5.08 dB 10 % 2.04 dB 1 % 3.60 dB .1 % 4.48 dB .01 % 4.92 dB Date: 18.FEB.2018 12:26:50	Ref: 30 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz, Center: 1.88 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 22.20 dBm Peak 27.33 dBm Crest 5.14 dB 10 % 2.48 dB 1 % 3.96 dB .1 % 4.64 dB .01 % 4.96 dB Date: 18.FEB.2018 13:14:55
Highest Channel	Highest Channel
Ref: 30 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz, Center: 848.31 MHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.47 dBm Peak 26.41 dBm Crest 4.94 dB 10 % 2.00 dB 1 % 3.44 dB .1 % 4.24 dB .01 % 4.76 dB Date: 18.FEB.2018 12:27:03	Ref: 30 dBm, Att: 30 dB, AGT: 3.125 ms, RBW: 10 MHz, Center: 1.90875 GHz Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 21.99 dBm Peak 26.06 dBm Crest 4.07 dB 10 % 2.44 dB 1 % 3.84 dB .1 % 4.04 dB .01 % 4.08 dB Date: 18.FEB.2018 13:15:13

**26dB Bandwidth**

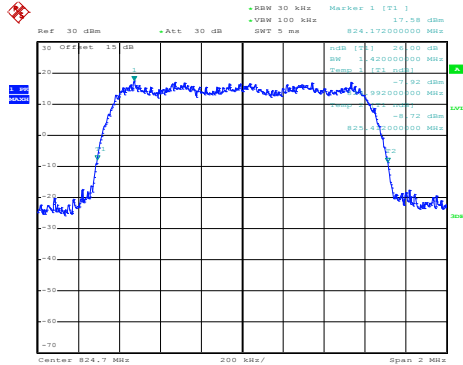
Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.42	1.42
Middle CH	1.42	1.42
Highest CH	1.42	1.42

Mode	CDMA BC0	CDMA BC1
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. 0
Lowest CH	1.41	1.42
Middle CH	1.42	1.42
Highest CH	1.42	1.43



CDMA BC0 (1xRTT)

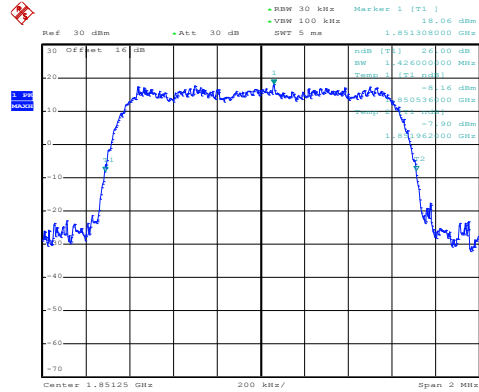
Lowest Channel



Date: 18.FEB.2018 11:16:04

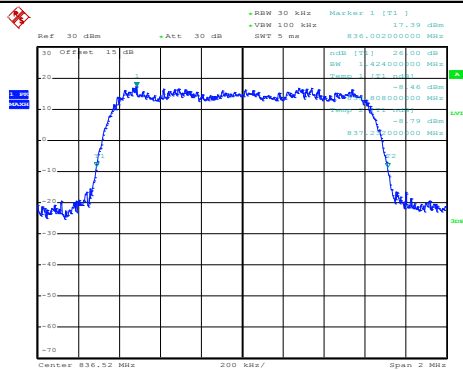
CDMA BC1 (1xRTT)

Lowest Channel



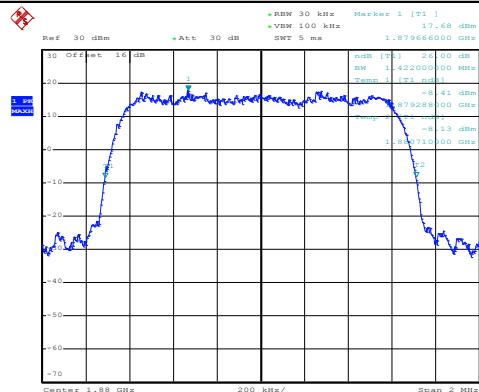
Date: 18.FEB.2018 12:33:44

Middle Channel



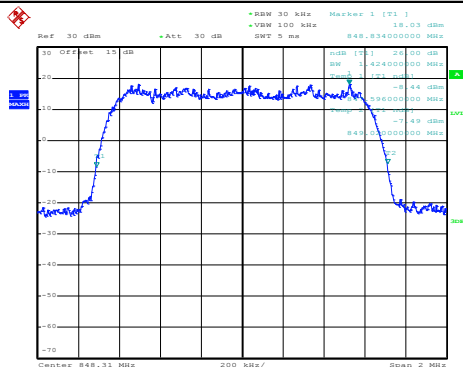
Date: 18.FEB.2018 11:16:43

Middle Channel



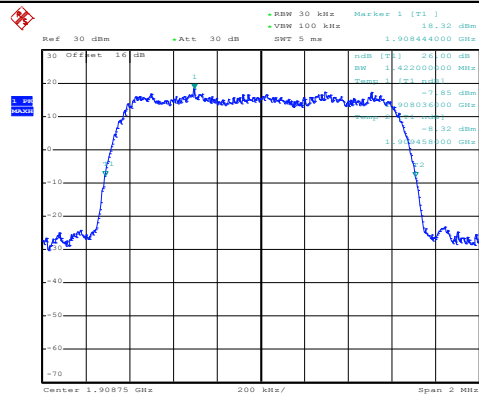
Date: 18.FEB.2018 12:34:16

Highest Channel

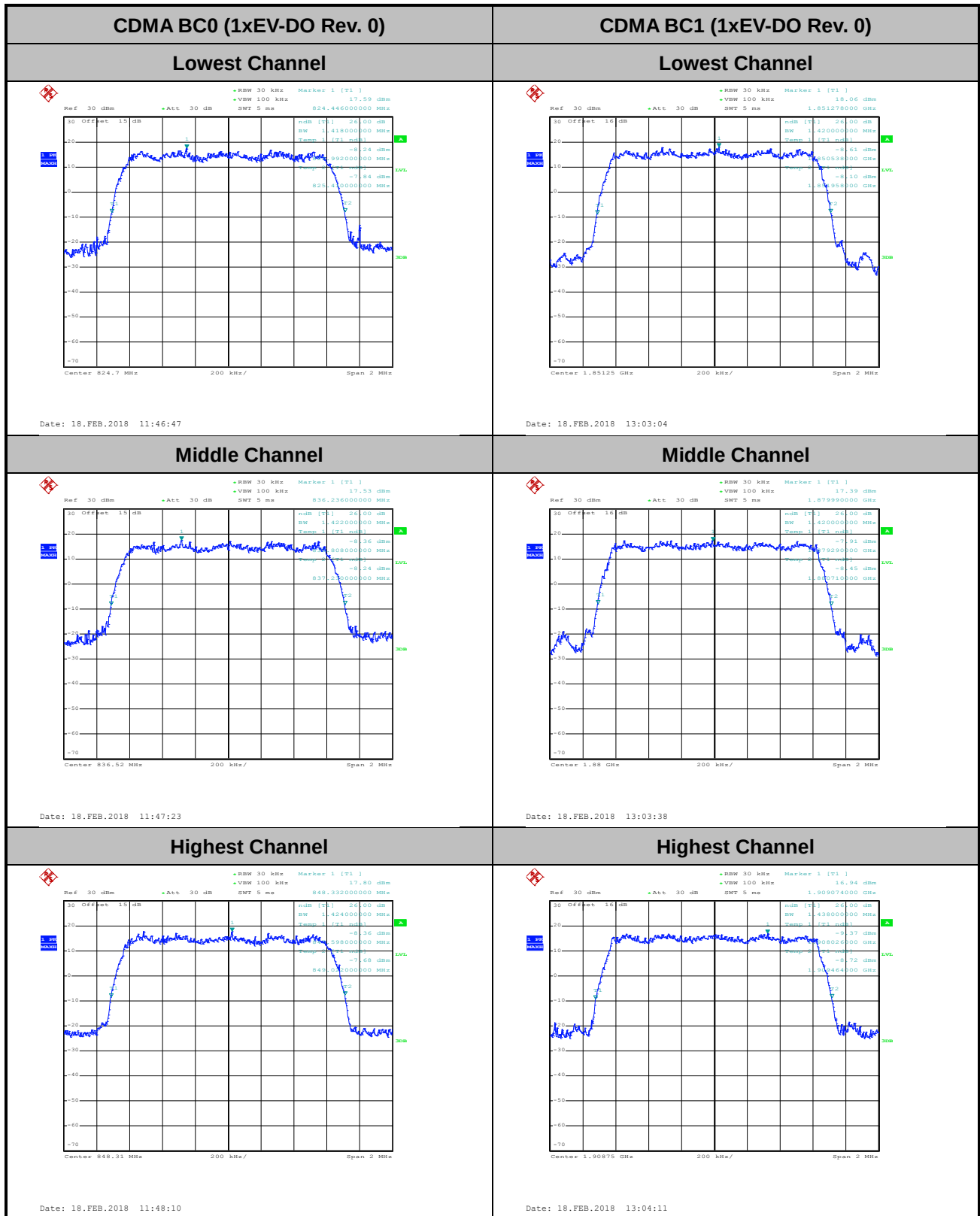


Date: 18.FEB.2018 11:17:18

Highest Channel



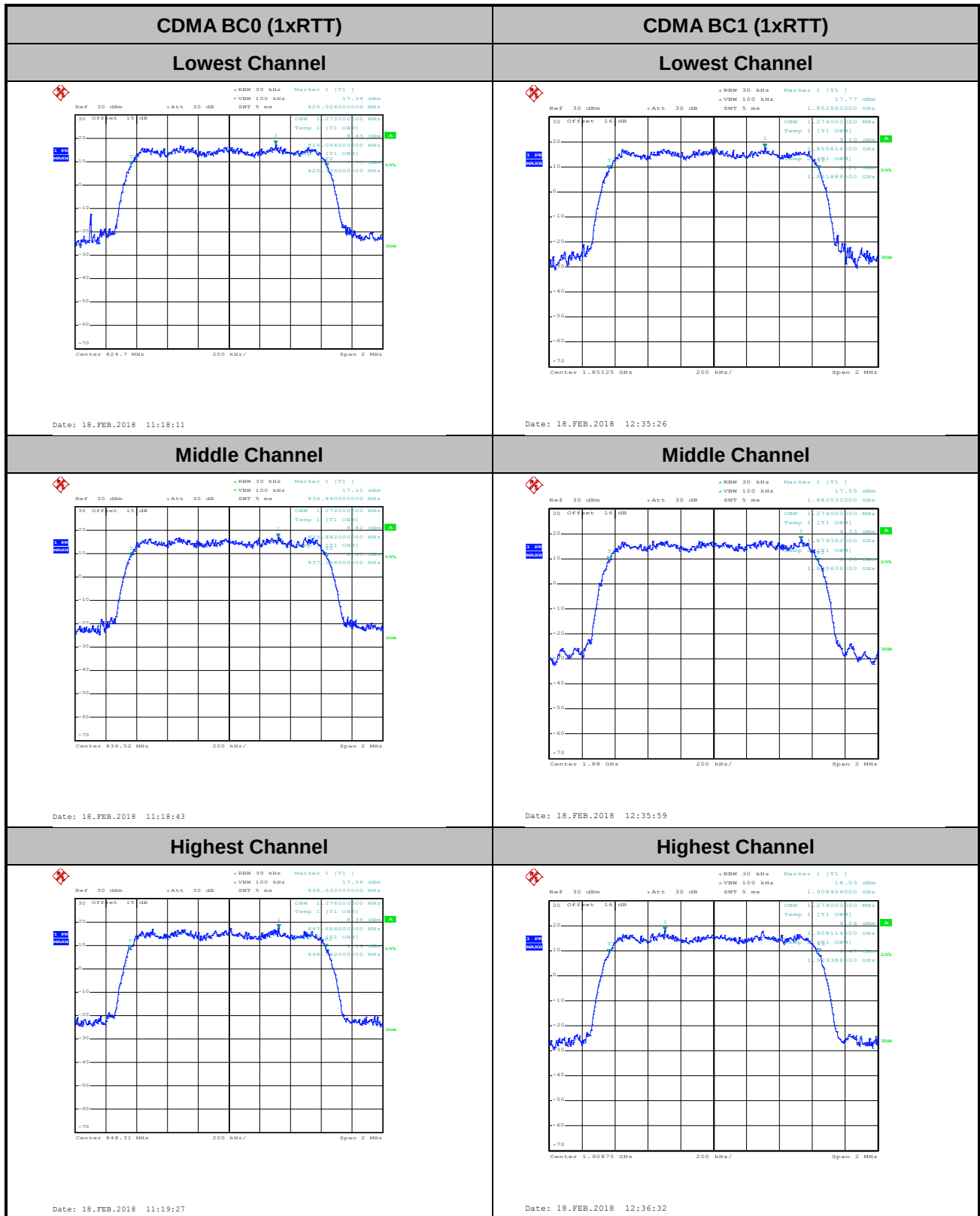
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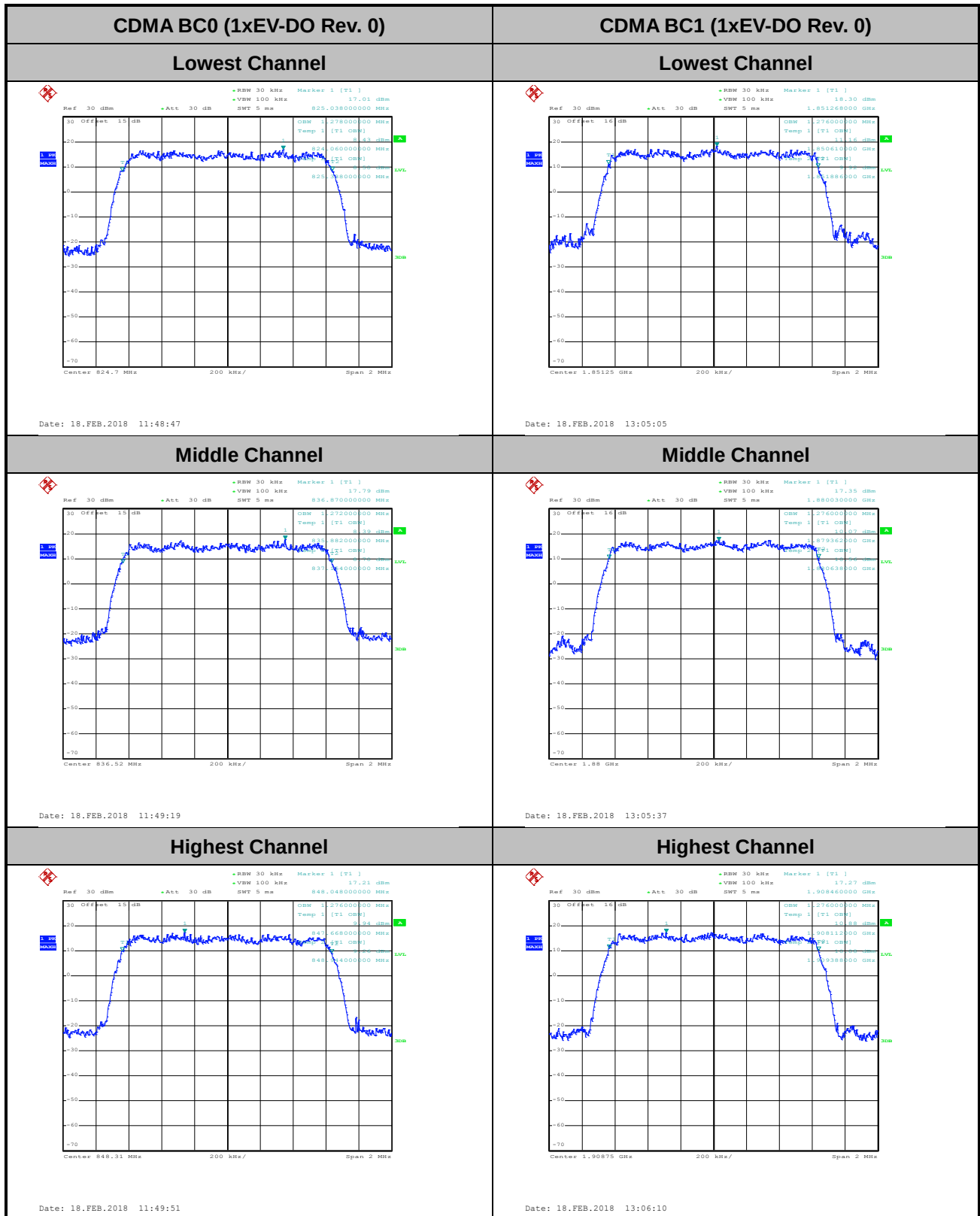


**Occupied Bandwidth**

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

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



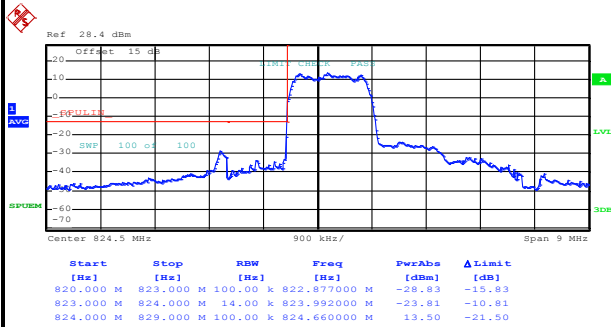




Conducted Band Edge

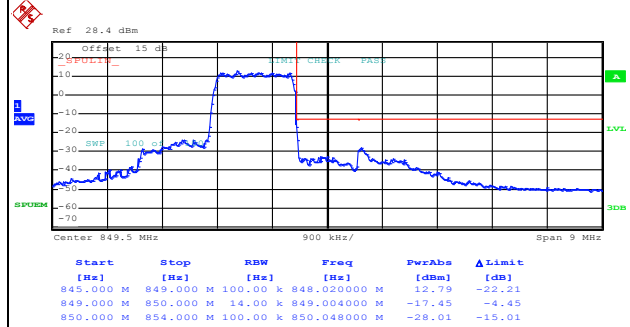
CDMA BC0 (1xRTT)

Lowest Band Edge



Date: 18.FEB.2018 11:28:36

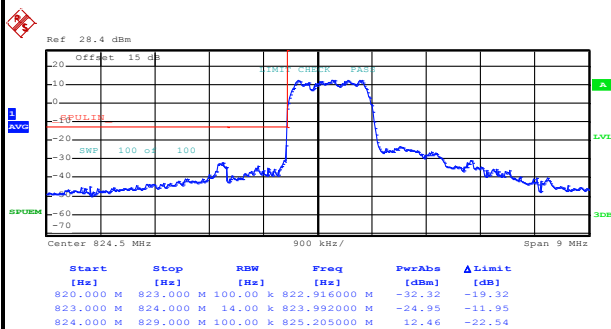
Highest Band Edge



Date: 18.FEB.2018 11:31:24

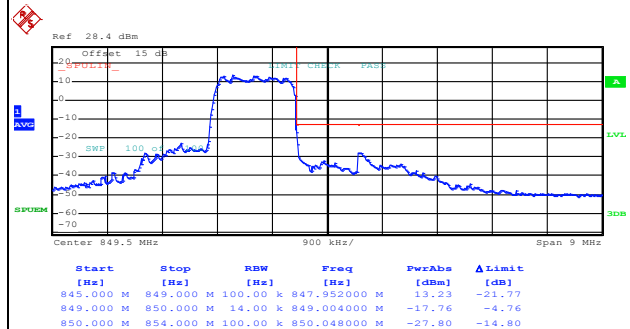
CDMA BC0 (1xEV-DO Rev. 0)

Lowest Band Edge



Date: 18.FEB.2018 11:52:41

Highest Band Edge

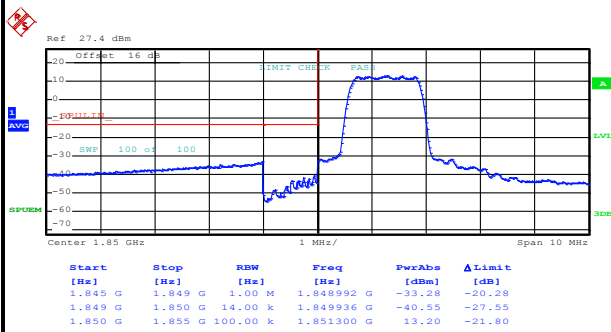


Date: 18.FEB.2018 11:55:27



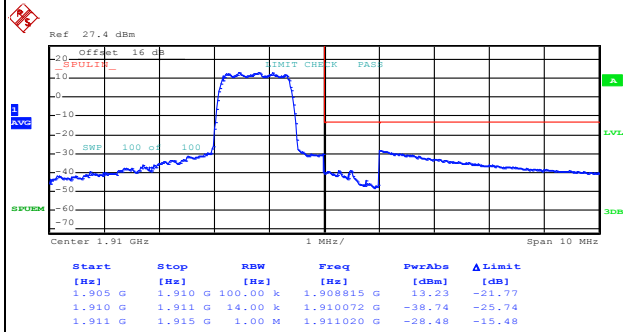
CDMA BC1 (1xRTT)

Lowest Band Edge



Date: 18.FEB.2018 12:39:19

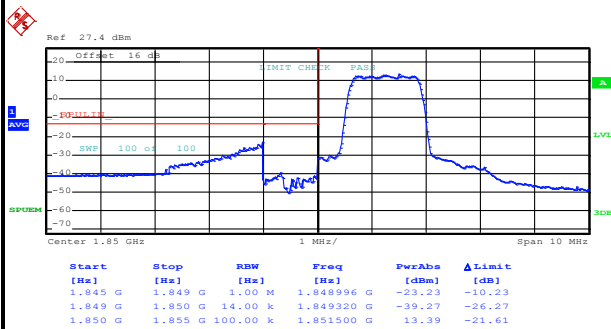
Highest Band Edge



Date: 18.FEB.2018 12:42:07

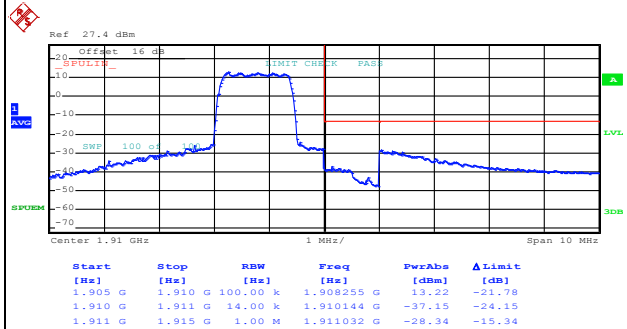
CDMA BC1 (1xEV-DO Rev. 0)

Lowest Band Edge



Date: 18.FEB.2018 13:09:02

Highest Band Edge



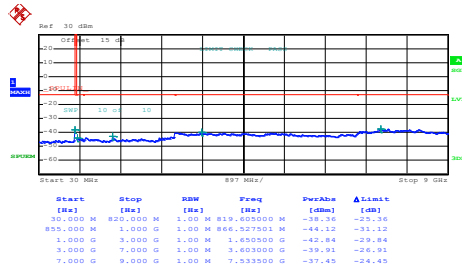
Date: 18.FEB.2018 13:11:49



Conducted Spurious Emission

CDMA BC0 (1xRTT)

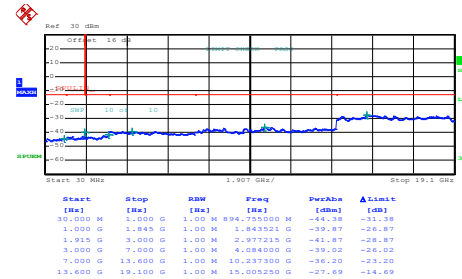
Lowest Channel



Date: 18.FEB.2018 11:23:14

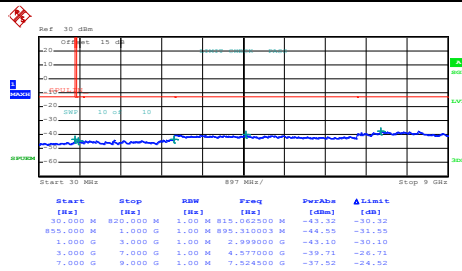
CDMA BC1 (1xRTT)

Lowest Channel



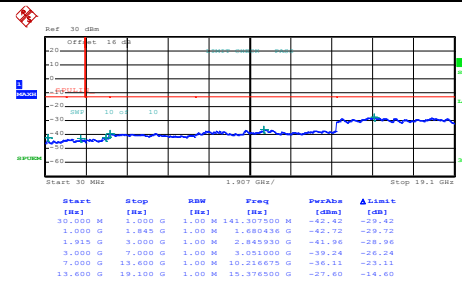
Date: 18.FEB.2018 12:43:53

Middle Channel



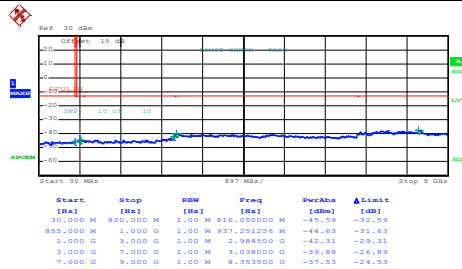
Date: 18.FEB.2018 11:24:08

Middle Channel



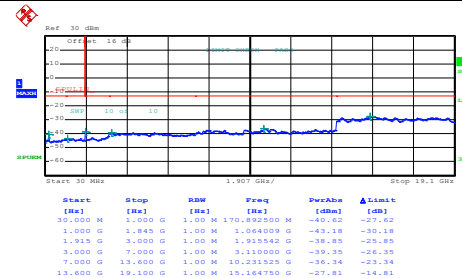
Date: 18.FEB.2018 12:44:42

Highest Channel



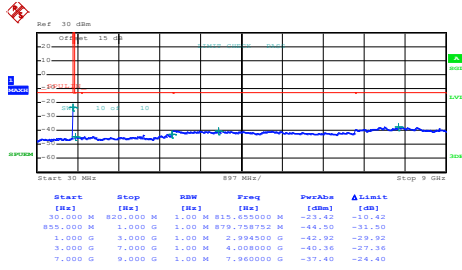
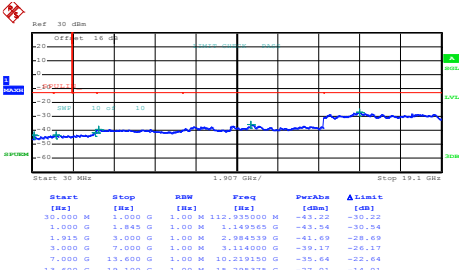
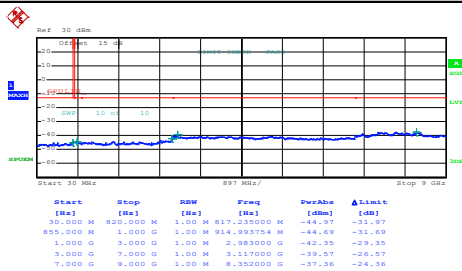
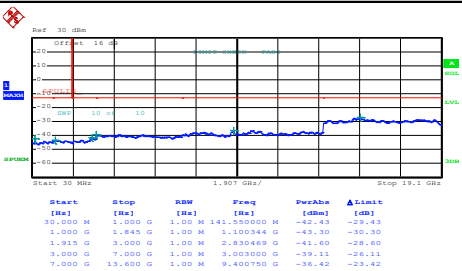
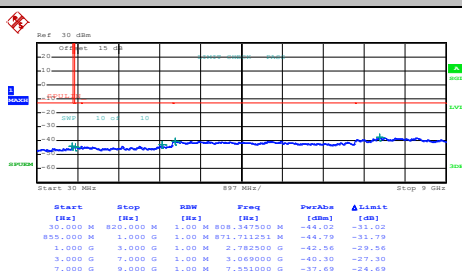
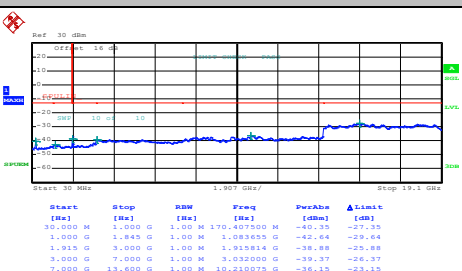
Date: 18.FEB.2018 11:25:15

Highest Channel



Date: 18.FEB.2018 12:45:33



CDMA BC0 (1xEV-DO Rev. 0)	CDMA BC1 (1xEV-DO Rev. 0)
Lowest Channel	Lowest Channel
 Date: 18.FEB.2018 11:56:33	 Date: 18.FEB.2018 13:12:42
Middle Channel	Middle Channel
 Date: 18.FEB.2018 11:57:25	 Date: 18.FEB.2018 13:13:33
Highest Channel	Highest Channel
 Date: 18.FEB.2018 11:58:18	 Date: 18.FEB.2018 13:14:23

**Frequency Stability**

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0526	PASS
40	Normal Voltage	0.0538	
30	Normal Voltage	0.0526	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0526	
0	Normal Voltage	0.0466	
-10	Normal Voltage	0.0502	
-20	Normal Voltage	0.0143	
-30	Normal Voltage	0.0466	
20	Maximum Voltage	0.0478	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0442	

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0128	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0117	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0117	
-10	Normal Voltage	0.0090	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	



Test Conditions	Middle Channel	CDMA BC0 (EVDO)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0084	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0060	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0347	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0084	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0251	

Test Conditions	Middle Channel	CDMA BC1 (EVDO)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0176	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0032	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0165	
-20	Normal Voltage	0.0069	
-30	Normal Voltage	0.0106	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block.



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

ERP/EIRP

Channel	Mode	Conducted		ERP	
		Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	WCDMA Band V	22.64	0.1837	14.89	0.0308
Middle	RMC 12.2Kbps	22.76	0.1888	15.01	0.0317
Highest	(GT - LC = -5.6 dB)	22.60	0.1820	14.85	0.0305
Lowest	CDMA BC0	23.85	0.2427	16.10	0.0407
Middle	1xRTT	23.96	0.2489	16.21	0.0418
Highest	(GT - LC = -5.6 dB)	23.99	0.2506	16.24	0.0421
Lowest	CDMA BC0	23.82	0.2410	16.07	0.0405
Middle	1xEV-DO	23.97	0.2495	16.22	0.0419
Highest	(GT - LC = -5.6 dB)	24.00	0.2512	16.25	0.0422
Limit	ERP < 7W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	GSM1900	29.73	0.9397	27.63	0.5794
Middle	GPRS class 8	29.58	0.9078	27.48	0.5598
Highest	(GT - LC = -2.1 dB)	29.36	0.8630	27.26	0.5321
Lowest	GSM1900	25.23	0.3334	23.13	0.2056
Middle	EDGE class 8	25.39	0.3459	23.29	0.2133
Highest	(GT - LC = -2.1 dB)	25.48	0.3532	23.38	0.2178
Lowest	WCDMA Band II	22.76	0.1888	20.66	0.1164
Middle	RMC 12.2Kbps	22.71	0.1866	20.61	0.1151
Highest	(GT - LC = -2.1 dB)	22.73	0.1875	20.63	0.1156
Lowest	CDMA BC1	23.75	0.2371	21.65	0.1462
Middle	1xRTT	23.60	0.2291	21.50	0.1413
Highest	(GT - LC = -2.1 dB)	23.52	0.2249	21.42	0.1387
Lowest	CDMA BC1	23.80	0.2399	21.70	0.1479
Middle	1xEV-DO	23.62	0.2301	21.52	0.1419
Highest	(GT - LC = -2.1 dB)	23.55	0.2265	21.45	0.1396
Limit	EIRP < 2W	Result		PASS	

Channel	Mode	Conducted		EIRP	
		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV	22.62	0.1828	20.62	0.1153
Middle	RMC 12.2Kbps	22.60	0.1820	20.60	0.1148
Highest	(GT - LC = -2 dB)	22.74	0.1879	20.74	0.1186
Limit	EIRP < 1W	Result		PASS	

**Radiated Spurious Emission****Part22H WCDMA850**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-60.69	-13	-47.69	-75.33	-66.09	1.23	8.78	H
	2479	-58.03	-13	-45.03	-75.75	-64.93	1.44	10.48	H
	3305	-55.63	-13	-42.63	-76.7	-63.58	1.71	11.82	H
									H
									H
									H
	1652	-60.79	-13	-47.79	-75.45	-66.19	1.23	8.78	V
	2479	-58.45	-13	-45.45	-76.17	-65.35	1.44	10.48	V
	3305	-55.72	-13	-42.72	-76.79	-63.67	1.71	11.82	V
									V
									V
									V
Middle	1672	-60.36	-13	-47.36	-75.04	-65.83	1.24	8.85	H
	2509	-57.97	-13	-44.97	-75.86	-64.89	1.44	10.51	H
	3344	-55.45	-13	-42.45	-76.61	-63.49	1.74	11.93	H
									H
									H
									H
	1672	-60.36	-13	-47.36	-75.04	-65.83	1.24	8.85	V
	2509	-58.02	-13	-45.02	-75.91	-64.94	1.44	10.51	V
	3344	-55.20	-13	-42.20	-76.36	-63.24	1.74	11.93	V
									V
									V
									V



Highest	1696	-59.65	-13	-46.65	-74.39	-65.20	1.24	8.94	H
	2539	-58.04	-13	-45.04	-76.09	-64.98	1.44	10.53	H
	3386	-55.51	-13	-42.51	-76.77	-63.64	1.78	12.06	H
									H
									H
									H
									H
	1696	-60.39	-13	-47.39	-75.13	-65.94	1.24	8.94	V
	2539	-58.22	-13	-45.22	-76.27	-65.16	1.44	10.53	V
	3386	-55.38	-13	-42.38	-76.77	-63.51	1.78	12.06	V
									V
									V
									V
									V

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

**Part22H CDMA850 1xRTT**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-58.99	-13	-45.99	-73.6	-64.38	1.23	8.76	H
	2472	-58.96	-13	-45.96	-76.68	-65.85	1.44	10.48	H
	3296	-56.00	-13	-43.00	-77.03	-63.94	1.70	11.79	H
									H
									H
									H
									H
	1648	-58.40	-13	-45.40	-73.01	-63.79	1.23	8.76	V
	2472	-58.71	-13	-45.71	-76.43	-65.60	1.44	10.48	V
	3296	-55.97	-13	-42.97	-77	-63.91	1.70	11.79	V
									V
									V
									V
									V
Middle	1672	-50.22	-13	-37.22	-64.9	-55.69	1.24	8.85	H
	2512	-58.01	-13	-45.01	-75.9	-64.93	1.44	10.51	H
	3344	-55.52	-13	-42.52	-76.68	-63.56	1.74	11.93	H
									H
									H
									H
									H
	1672	-51.85	-13	-38.85	-66.53	-57.32	1.24	8.85	V
	2512	-58.47	-13	-45.47	-76.36	-65.39	1.44	10.51	V
	3344	-55.23	-13	-42.23	-76.39	-63.27	1.74	11.93	V
									V
									V
									V
									V



Highest	1696	-51.82	-13	-38.82	-66.56	-57.37	1.24	8.94	H
	2544	-58.23	-13	-45.23	-76.28	-65.17	1.44	10.54	H
	3392	-55.69	-13	-42.69	-76.99	-63.83	1.78	12.08	H
									H
									H
									H
									H
	1696	-52.13	-13	-39.13	-66.88	-57.68	1.24	8.94	V
	2544	-58.39	-13	-45.39	-76.44	-65.33	1.44	10.54	V
	3392	-55.14	-13	-42.14	-76.44	-63.28	1.78	12.08	V
									V
									V
									V
									V
									V
									V

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

**Part22H CDMA850 EVDO**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-59.35	-13	-46.35	-73.96	-64.74	1.23	8.76	H
	2472	-58.97	-13	-45.97	-76.69	-65.86	1.44	10.48	H
	3296	-55.98	-13	-42.98	-77.01	-63.92	1.70	11.79	H
									H
									H
									H
									H
	1648	-60.04	-13	-47.04	-74.65	-65.43	1.23	8.76	V
	2472	-58.87	-13	-45.87	-76.59	-65.76	1.44	10.48	V
	3296	-55.96	-13	-42.96	-76.99	-63.90	1.70	11.79	V
									V
									V
									V
									V
Middle	1672	-50.12	-13	-37.12	-66.8	-55.59	1.24	8.85	H
	2512	-58.25	-13	-45.25	-76.32	-65.17	1.44	10.51	H
	3344	-55.72	-13	-42.72	-76.99	-63.76	1.74	11.93	H
									H
									H
									H
									H
	1672	-52.12	-13	-39.12	-66.8	-57.59	1.24	8.85	V
	2512	-58.43	-13	-45.43	-76.32	-65.35	1.44	10.51	V
	3344	-55.83	-13	-42.83	-76.99	-63.87	1.74	11.93	V
									V
									V
									V
									V



Highest	1696	-51.88	-13	-38.88	-66.62	-57.43	1.24	8.94	H
	2544	-58.39	-13	-45.39	-76.44	-65.33	1.44	10.54	H
	3392	-55.20	-13	-42.20	-76.5	-63.34	1.78	12.08	H
									H
									H
									H
									H
	1696	-51.88	-13	-38.88	-66.62	-57.43	1.24	8.94	V
	2544	-58.32	-13	-45.32	-76.37	-65.26	1.44	10.54	V
	3392	-55.48	-13	-42.48	-76.78	-63.62	1.78	12.08	V
									V
									V
									V
									V

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

**Part24E GPRS1900**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-42.12	-13	-29.12	-63.98	-52.43	1.97	12.28	H
	5548	-31.57	-13	-18.57	-59.56	-41.69	2.14	12.27	H
	7400	-41.76	-13	-28.76	-76.26	-49.76	2.18	10.18	H
									H
									H
									H
									H
	3700	-41.85	-13	-28.85	-63.71	-52.16	1.97	12.28	V
	5548	-36.94	-13	-23.94	-64.93	-47.06	2.14	12.27	V
	7400	-41.70	-13	-28.70	-76.2	-49.70	2.18	10.18	V
									V
									V
									V
									V
Middle	3763	-45.66	-13	-32.66	-67.61	-55.90	2.01	12.24	H
	5639	-30.13	-13	-17.13	-58.37	-40.40	2.12	12.39	H
	7518	-41.63	-13	-28.63	-76.35	-49.58	2.11	10.06	H
									H
									H
									H
									H
	3763	-44.12	-13	-31.12	-66.07	-54.36	2.01	12.24	V
	5639	-33.05	-13	-20.05	-61.29	-43.32	2.12	12.39	V
	7518	-41.73	-13	-28.73	-76.45	-49.68	2.11	10.06	V
									V
									V
									V
									V



Highest	3819	-44.16	-13	-31.16	-66.18	-54.33	2.04	12.21	H
	5730	-29.41	-13	-16.41	-57.92	-39.83	2.10	12.52	H
	7634	-41.16	-13	-28.16	-76.06	-49.53	2.11	10.48	H
									H
									H
									H
									H
	3819	-40.32	-13	-27.32	-62.34	-50.49	2.04	12.21	V
	5730	-32.06	-13	-19.06	-60.57	-42.48	2.10	12.52	V
	7634	-40.18	-13	-27.18	-75.08	-48.55	2.11	10.48	V
									V
									V
									V
									V
									V
									V

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

**Part24E EDGE1900**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-47.84	-13	-34.84	-69.7	-58.15	1.97	12.28	H
	5548	-47.56	-13	-34.56	-75.55	-57.68	2.14	12.27	H
	7400	-41.74	-13	-28.74	-76.24	-49.74	2.18	10.18	H
									H
									H
									H
									H
	3700	-51.04	-13	-38.04	-72.9	-61.35	1.97	12.28	V
	5548	-49.14	-13	-36.14	-77.13	-59.26	2.14	12.27	V
	7400	-41.85	-13	-28.85	-76.35	-49.85	2.18	10.18	V
									V
									V
									V
									V
Middle	-13	-37.52	-72.47	-60.76	2.01	12.24	-13	-37.52	H
	-13	-35.80	-77.04	-59.07	2.12	12.40	-13	-35.80	H
	-13	-28.54	-76.29	-49.50	2.11	10.07	-13	-28.54	H
									H
									H
									H
									H
	3760	-50.73	-13	-37.73	-72.68	-60.97	2.01	12.24	V
	5640	-49.02	-13	-36.02	-77.26	-59.29	2.12	12.40	V
	7520	-41.67	-13	-28.67	-76.42	-49.63	2.11	10.07	V
									V
									V
									V
									V



Highest	3819	-51.81	-13	-38.81	-73.83	-61.98	2.04	12.21	H
	5729	-47.75	-13	-34.75	-76.26	-58.17	2.10	12.52	H
	7640	-41.28	-13	-28.28	-76.21	-49.67	2.11	10.50	H
									H
									H
									H
									H
	3819	-51.85	-13	-38.85	-73.87	-62.02	2.04	12.21	V
	5729	-48.27	-13	-35.27	-76.78	-58.69	2.10	12.52	V
	7640	-41.34	-13	-28.34	-76.27	-49.73	2.11	10.50	V
									V
									V
									V
									V
									V
									V

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

**Part24E WCDMA1900**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-54.58	-13	-41.58	-76.44	-64.89	1.97	12.28	H
	5555	-49.28	-13	-36.28	-77.26	-59.41	2.14	12.28	H
	7400	-41.97	-13	-28.97	-76.47	-49.97	2.18	10.18	H
									H
									H
									H
									H
	3700	-54.79	-13	-41.79	-76.65	-65.10	1.97	12.28	V
	5555	-49.08	-13	-36.08	-77.06	-59.21	2.14	12.28	V
	7400	-41.78	-13	-28.78	-76.28	-49.78	2.18	10.18	V
									V
									V
									V
									V
Middle	3760	-54.23	-13	-41.23	-76.16	-64.47	2.01	12.24	H
	5640	-49.01	-13	-36.01	-77.25	-59.28	2.12	12.40	H
	7520	-41.30	-13	-28.30	-76.05	-49.26	2.11	10.07	H
									H
									H
									H
									H
	3760	-54.25	-13	-41.25	-76.18	-64.49	2.01	12.24	V
	5640	-48.82	-13	-35.82	-77.06	-59.09	2.12	12.40	V
	7520	-41.61	-13	-28.61	-76.36	-49.57	2.11	10.07	V
									V
									V
									V
									V



Highest	3812	-53.29	-13	-40.29	-75.28	-63.47	2.03	12.21	H
	5723	-45.08	-13	-32.08	-73.59	-55.49	2.10	12.51	H
	7630	-41.34	-13	-28.34	-76.24	-49.69	2.11	10.47	H
									H
									H
									H
									H
	3812	-53.61	-13	-40.61	-75.6	-63.79	2.03	12.21	V
	5723	-47.30	-13	-34.30	-75.81	-57.71	2.10	12.51	V
	7630	-41.13	-13	-28.13	-76.03	-49.48	2.11	10.47	V
									V
									V
									V
									V
									V
									V

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

**Part24E CDMA1900 1xRTT**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-51.14	-13	-38.14	-73	-61.45	1.97	12.28	H
	5555	-47.04	-13	-34.04	-75.02	-57.17	2.14	12.28	H
	7400	-42.61	-13	-29.61	-77.11	-50.61	2.18	10.18	H
									H
									H
									H
									H
	3700	-52.00	-13	-39.00	-73.86	-62.31	1.97	12.28	V
	5555	-46.78	-13	-33.78	-74.76	-56.91	2.14	12.28	V
	7400	-42.66	-13	-29.66	-77.16	-50.66	2.18	10.18	V
									V
									V
									V
									V
Middle	3763	-51.04	-13	-38.04	-72.99	-61.28	2.01	12.24	H
	5639	-38.27	-13	-25.27	-66.51	-48.54	2.12	12.39	H
	7518	-42.07	-13	-29.07	-76.81	-50.02	2.11	10.06	H
									H
									H
									H
									H
	3763	-51.71	-13	-38.71	-73.66	-61.95	2.01	12.24	V
	5639	-45.76	-13	-32.76	-74	-56.03	2.12	12.39	V
	7518	-42.25	-13	-29.25	-76.99	-50.20	2.11	10.06	V
									V
									V
									V
									V



Highest	3819	-52.35	-13	-39.35	-74.37	-62.52	2.04	12.21	H
	5730	-43.23	-13	-30.23	-71.74	-53.65	2.10	12.52	H
	7640	-42.06	-13	-29.06	-76.99	-50.45	2.11	10.50	H
									H
									H
									H
									H
	3819	-51.86	-13	-38.86	-73.88	-62.03	2.04	12.21	V
	5730	-47.79	-13	-34.79	-76.3	-58.21	2.10	12.52	V
	7640	-42.08	-13	-29.08	-77.01	-50.47	2.11	10.50	V
									V
									V
									V
									V
									V
									V

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

**Part24E CDMA1900 EVDO**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3700	-54.70	-13	-41.70	-76.55	-65.01	1.97	12.28	H
	5555	-43.91	-13	-30.91	-71.89	-54.04	2.14	12.28	H
	7400	-42.11	-13	-29.11	-76.61	-50.11	2.18	10.18	H
									H
									H
									H
									H
	3700	-50.01	-13	-37.01	-71.87	-60.32	1.97	12.28	V
	5555	-42.96	-13	-29.96	-70.94	-53.09	2.14	12.28	V
	7400	-42.27	-13	-29.27	-76.77	-50.27	2.18	10.18	V
									V
									V
									V
									V
Middle	3763	-52.60	-13	-39.60	-74.55	-62.84	2.01	12.24	H
	5639	-37.66	-13	-24.66	-65.9	-47.93	2.12	12.39	H
	7518	-41.94	-13	-28.94	-76.66	-49.89	2.11	10.06	H
									H
									H
									H
									H
	3763	-51.68	-13	-38.68	-73.63	-61.92	2.01	12.24	V
	5639	-41.88	-13	-28.88	-70.12	-52.15	2.12	12.39	V
	7518	-41.89	-13	-28.89	-76.61	-49.84	2.11	10.06	V
									V
									V
									V
									V



Highest	3819	-52.11	-13	-39.11	-74.13	-62.28	2.04	12.21	H
	5730	-38.99	-13	-25.99	-67.5	-49.41	2.10	12.52	H
	7640	-42.35	-13	-29.35	-77.28	-50.74	2.11	10.50	H
									H
									H
									H
									H
	3819	-50.72	-13	-37.72	-72.74	-60.89	2.04	12.21	V
	5730	-41.51	-13	-28.51	-70.02	-51.93	2.10	12.52	V
	7640	-41.85	-13	-28.85	-76.78	-50.24	2.11	10.50	V
									V
									V
									V
									V

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

**Part27L WCDMA 1700**

WCDMA 1900									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3427	-45.95	-13	-32.95	-67.34	-56.32	1.81	12.18	H
	5135	-49.03	-13	-36.03	-75.92	-58.85	2.30	12.13	H
	6850	-43.51	-13	-30.51	-76.81	-52.19	2.37	11.05	H
									H
									H
									H
									H
	3427	-43.67	-13	-30.67	-65.06	-54.04	1.81	12.18	V
	5135	-49.44	-13	-36.44	-76.33	-59.26	2.30	12.13	V
	6850	-43.74	-13	-30.74	-77.04	-52.42	2.37	11.05	V
									V
									V
									V
									V
Middle	3462	-43.64	-13	-30.64	-65.13	-54.09	1.84	12.29	H
	5198	-48.84	-13	-35.84	-75.9	-58.70	2.28	12.14	H
	6927	-42.88	-13	-29.88	-76.44	-51.46	2.40	10.97	H
									H
									H
									H
									H
	3462	-47.48	-13	-34.48	-68.97	-57.93	1.84	12.29	V
	5198	-49.09	-13	-36.09	-76.15	-58.95	2.28	12.14	V
	6927	-43.30	-13	-30.30	-76.86	-51.88	2.40	10.97	V
									V
									V
									V
									V



Highest	3504	-44.92	-13	-31.92	-66.49	-55.45	1.87	12.40	H
	5254	-49.17	-13	-36.17	-76.36	-59.06	2.26	12.15	H
	7011	-42.22	-13	-29.22	-76.01	-50.69	2.41	10.88	H
									H
									H
									H
									H
	3504	-46.01	-13	-33.01	-67.58	-56.54	1.87	12.40	V
	5254	-49.54	-13	-36.54	-76.73	-59.43	2.26	12.15	V
	7011	-42.32	-13	-29.32	-76.11	-50.79	2.41	10.88	V
									V
									V
									V
									V
									V
									V

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