



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1922-6, XT1922-7, XT1922-9
FCC ID : IHDT56XB1
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 Dec. 13, 2017 and testing was completed on Feb. 03, 2018. We, Sporton International (Shenzhen) 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.



Approved by: Eric Shih / Manager

Sporton International (Shenzhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG7D1310A	Rev. 01	Initial issue of report	Feb. 12, 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 22H	PASS	-
	§2.1055 §24.235		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 22.00 dB at 5729.400 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	XT1922-6, XT1922-7, XT1922-9
FCC ID	IHDT56XB1
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth v3.0 + EDR/Bluetooth v4.0 LE/ Bluetooth v4.1 LE/Bluetooth v4.2 LE
IMEI Code	Conducted: 351864090027578 Radiation: 351864090024591
HW Version	DVT1B
SW Version	jeter_oem_userdebug_8.0.0_OPP27.34_970_intcfg-test-keys_oem
EUT Stage	Identical Prototype

Remark:

1. For XT1922-6, XT1922-7, XT1922-9, they are the same product except model name different for market segment.
2. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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: 32.36 dBm 1900: 29.43 dBm WCDMA: Band V: 23.12 dBm Band II: 23.38 dBm Band IV: 23.44 dBm CDMA2000: BC0: 24.41 dBm BC1: 24.90 dBm
Antenna Type	PIFA Antenna
Antenna Gain	Cellular Band: -2.0 dBi PCS Band: 0 dBi AWS Band: 0.5 dBi
Type of Modulation	GSM/GPRS: GMSK EDGE: GMSK / 8PSK WCDMA : BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (16QAM uplink is not supported) DC-HSDPA : 64QAM CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK

1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola (Acbel)	Model Name	C-P35 SPN5945A
	Power Rating	I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc,2000mA		
AC Adapter 2	Brand Name	Motorola (Salom)	Model Name	SSW-2919UMTJ C-P35 SPN5945A
	Power Rating	I/P: 100-240 Vac, 300mA, O/P: 5.2Vdc,2000mA		
Battery	Brand Name	Motorola (SCUD)	Model Name	BL270
	Power Rating	3.85Vdc,4000mAh	Type	Li-ion, ATL426580
USB Cable	Brand Name	Motorola (Saibao)	Model Name	SLQ-A077A
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		

1.6 Modification of EUT

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

1.7 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 22H	GSM850 GSM	GMSK	0.6622	0.0104 ppm	243KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.1524	0.0172 ppm	235KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.0789	0.0155 ppm	4M14F9W
Part 22H	CDMA2000 BC0 1xRTT	QPSK	0.1062	0.0213 ppm	1M28F9W
Part 24E	GSM1900 GSM	GMSK	0.8770	0.0036 ppm	242KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.3148	0.0051 ppm	237KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.2178	0.0106 ppm	4M15F9W
Part 24E	CDMA2000 BC1 1xRTT	QPSK	0.3090	0.0126 ppm	1M28F9W
Part 27L	WCDMA Band IV RMC 12.2Kbps	BPSK	0.2477	0.0127 ppm	4M13F9W

1.8 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	TH01-SZ	251365

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	03CH03-SZ	577730

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

1.9 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:

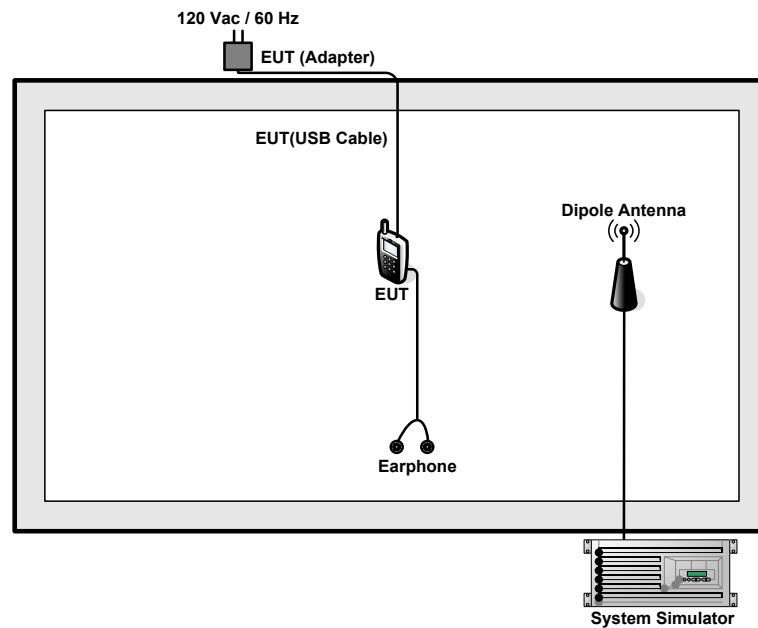
1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V and CDMA BC0.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II and CDMA BC1.

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	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
GSM 1900	■ GSM Link ■ EDGE class 8 Link	■ GSM 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	■ 1xRTT Link
CDMA BC1	■ 1xRTT Link	■ 1xRTT Link

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Ashley ROW	N/A	N/A	Unshielded, 1.2m	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 4.5 dB and a 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.5 + 10 = 14.5 \text{ (dB)}
 \end{aligned}$$

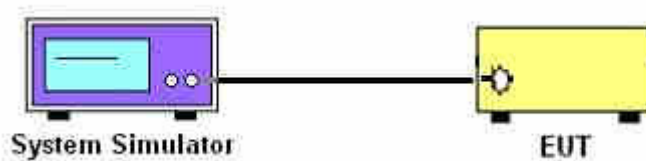
3 Conducted Test Result

3.1 Measuring Instruments

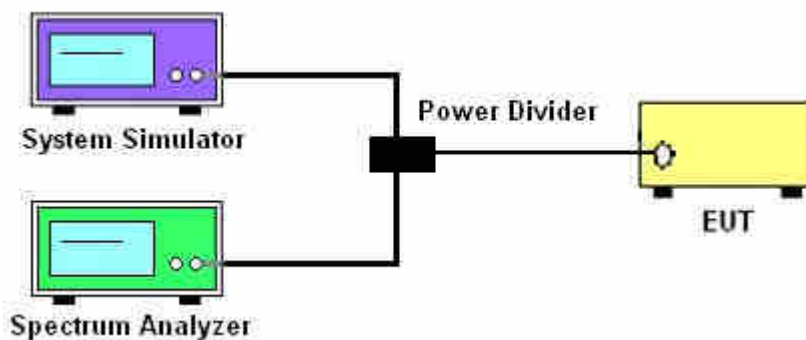
See list of measuring instruments of this test report.

3.2 Test Setup

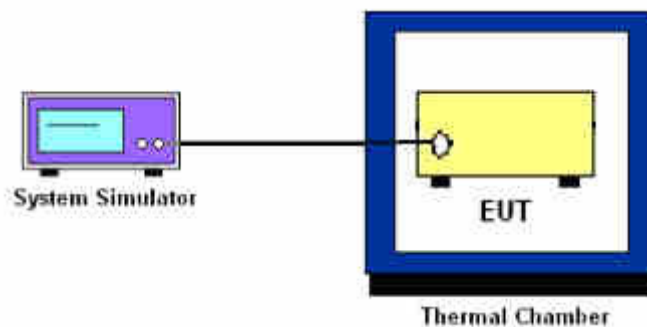
3.2.1 Conducted Output Power



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 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 GSM850 and WCDMA Band V and CDMA BC0.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II and CDMA BC1.

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

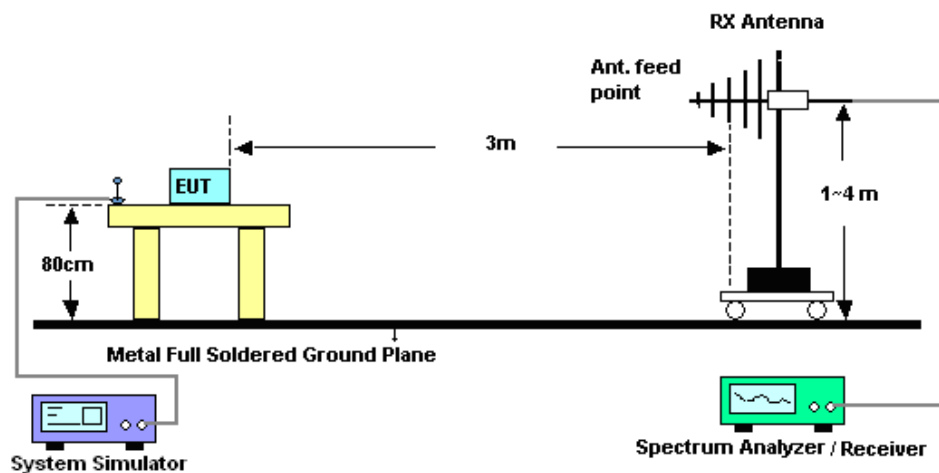
4 Radiated Test Items

4.1 Measuring Instruments

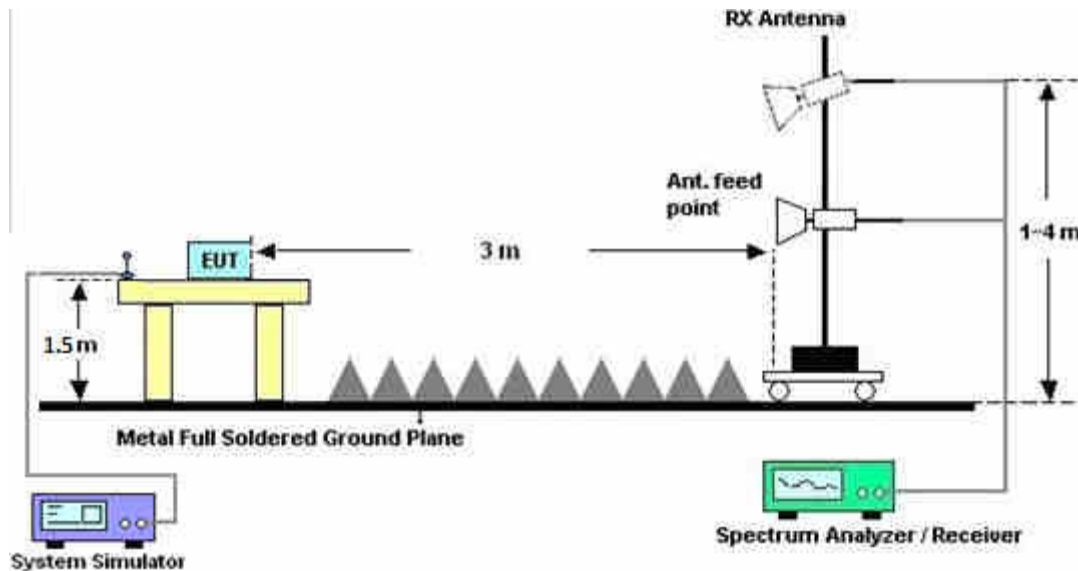
See list of measuring instruments of this test report.

4.2 Test Setup

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 20, 2017	Dec. 26, 2017~ Feb. 03, 2018	Apr. 19, 2018	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 20, 2017	Dec. 26, 2017~ Feb. 03, 2018	Jul. 19, 2018	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 20, 2017	Dec. 24, 2017~ Jan. 31, 2018	Apr. 19, 2018	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 20, 2017	Dec. 24, 2017~ Jan. 31, 2018	Apr. 19, 2018	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	May 14, 2017	Dec. 24, 2017~ Jan. 31, 2018	May 13, 2018	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120 D	9120D-1355	1GHz~18GHz	Jul. 09, 2017	Dec. 24, 2017~ Jan. 31, 2018	Jul. 08, 2018	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Jun. 16, 2017	Dec. 24, 2017~ Jan. 31, 2018	Jun. 15, 2018	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 19, 2017	Dec. 24, 2017~ Jan. 31, 2018	Oct. 18, 2018	Radiation (03CH03-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270156	0.5GHz~26.5Ghz	Apr. 20, 2017	Dec. 24, 2017~ Jan. 31, 2018	Apr. 19, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 18, 2017	Dec. 24, 2017~ Jan. 31, 2018	Jul. 17, .2018	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 24, 2017~ Jan. 31, 2018	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 24, 2017~ Jan. 31, 2018	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 24, 2017~ Jan. 31, 2018	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.0dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.6dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.8dB
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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	32.33	32.36	32.34	29.36	29.40	29.43
GPRS class 8	32.31	32.35	32.32	29.35	29.38	29.41
GPRS class 10	29.23	29.26	29.21	26.28	26.36	26.42
GPRS class 11	27.14	27.20	27.16	24.28	24.31	24.38
GPRS class 12	26.68	26.76	26.75	23.77	23.75	23.78
EGPRS class 8	25.97	25.98	25.79	24.94	24.98	24.76
EGPRS class 10	25.89	25.83	25.72	24.61	24.60	24.51
EGPRS class 11	24.41	24.34	24.26	23.09	23.12	23.19
EGPRS class 12	23.08	23.01	22.92	21.79	21.70	21.71

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
AMR 12.2Kbps	23.03	22.95	23.10	23.34	23.36	23.37	23.35	23.40	23.42
RMC 12.2Kbps	23.06	22.97	23.12	23.36	23.37	23.38	23.38	23.41	23.44
HSDPA Subtest-1	22.52	22.45	22.45	22.75	22.62	22.53	22.54	22.64	22.57
HSDPA Subtest-2	22.49	22.45	22.47	22.76	22.64	22.57	22.51	22.63	22.56
HSDPA Subtest-3	21.96	21.99	21.94	22.20	22.14	22.04	22.02	22.12	22.10
HSDPA Subtest-4	21.97	21.95	21.95	22.21	22.15	22.06	22.03	22.15	22.07
DC-HSDPA Subtest-1	22.45	22.42	22.43	22.66	22.55	22.49	22.50	22.55	22.56
DC-HSDPA Subtest-2	22.42	22.38	22.41	22.60	22.53	22.47	22.48	22.52	22.50
DC-HSDPA Subtest-3	21.92	21.89	21.90	22.15	22.05	21.99	22.00	22.02	22.03
DC-HSDPA Subtest-4	21.93	21.86	21.92	22.13	22.02	21.96	21.98	22.01	22.04
HSUPA Subtest-1	22.34	22.33	22.49	22.76	22.62	22.53	22.44	22.61	22.52
HSUPA Subtest-2	20.40	20.38	20.42	20.71	20.67	20.58	20.41	20.63	20.49
HSUPA Subtest-3	21.34	21.36	21.45	21.70	21.64	21.56	21.46	21.61	21.52
HSUPA Subtest-4	20.35	20.35	20.51	20.73	20.65	20.58	20.42	20.62	20.50
HSUPA Subtest-5	22.30	22.40	22.50	22.70	22.70	22.60	22.40	22.70	22.50



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	24.41	24.33	24.24	24.90	24.79	24.72
1xRTT RC3 SO55	24.40	24.32	24.23	24.89	24.75	24.71
1xRTT RC3 SO32 (+ F-SCH)	24.39	24.33	24.21	24.80	24.72	24.75
1xRTT RC3 SO32 (+SCH)	24.38	24.32	24.20	24.78	24.71	24.72
1xEVDO RTAP 153.6Kbps	24.36	24.29	24.10	24.80	24.69	24.68
1xEVDO RETAP 4096Bits	24.27	24.20	24.01	24.65	24.52	24.52

**ERP/EIRP**

GSM850 (G _T - L _C = -2.0dBi)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	32.33	32.36	32.34
Conducted Power (Watts)	1.7100	1.7219	1.7140
ERP(dBm)	28.18	28.21	28.19
ERP(Watts)	0.6577	0.6622	0.6592

EDGE850 (G _T - L _C = -2.0 dBi)			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency	824.2	836.4	848.8
(MHz)			
Conducted Power (dBm)	25.97	25.98	25.79
Conducted Power (Watts)	0.3954	0.3963	0.3793
ERP(dBm)	21.82	21.83	21.64
ERP(Watts)	0.1521	0.1524	0.1459



GSM1900 (G _T - L _C = 0dBi)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	29.36	29.40	29.43
Conducted Power (Watts)	0.8630	0.8710	0.8770
EIRP(dBm)	29.36	29.40	29.43
EIRP(Watts)	0.8630	0.8710	0.8770

EDGE1900 (G _T - L _C = 0dBi)			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency	1850.2	1880	1909.8
(MHz)			
Conducted Power (dBm)	24.94	24.98	24.76
Conducted Power (Watts)	0.3119	0.3148	0.2992
EIRP(dBm)	24.94	24.98	24.76
EIRP(Watts)	0.3119	0.3148	0.2992



WCDMA Band V ($G_T - L_C = -2.0\text{dBi}$)			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency	826.4	836.4	846.6
(MHz)			
Conducted Power (dBm)	23.06	22.97	23.12
Conducted Power (Watts)	0.2023	0.1982	0.2051
ERP(dBm)	18.91	18.82	18.97
ERP(Watts)	0.0778	0.0762	0.0789

WCDMA Band II ($G_T - L_C = 0\text{dBi}$)			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency	1852.4	1880	1907.6
(MHz)			
Conducted Power (dBm)	23.36	23.37	23.38
Conducted Power (Watts)	0.2168	0.2173	0.2178
EIRP(dBm)	23.36	23.37	23.38
EIRP(Watts)	0.2168	0.2173	0.2178



WCDMA Band IV ($G_T - L_C = 0.5\text{dBi}$)			
Channel	1312	1413	1513
	(Low)	(Mid)	(High)
Frequency	1712.4	1732.6	1752.6
(MHz)			
Conducted Power (dBm)	23.38	23.41	23.44
Conducted Power (Watts)	0.2178	0.2193	0.2208
EIRP(dBm)	23.88	23.91	23.94
EIRP(Watts)	0.2443	0.2460	0.2477

CDMA BC0 ($G_T - L_C = -2.0\text{dBi}$)			
Channel	824.7	836.52	848.31
	(Low)	(Mid)	(High)
Frequency	826.4	836.4	846.6
(MHz)			
Conducted Power (dBm)	24.41	24.33	24.24
Conducted Power (Watts)	0.2761	0.2710	0.2655
ERP(dBm)	20.26	20.18	20.09
ERP(Watts)	0.1062	0.1042	0.1021

CDMA BC1 ($G_T - L_C = 0\text{dBi}$)			
Channel	824.7	836.52	848.31
	(Low)	(Mid)	(High)
Frequency	1852.4	1880	1907.6
(MHz)			
Conducted Power (dBm)	24.90	24.79	24.72
Conducted Power (Watts)	0.3090	0.3013	0.2965
EIRP(dBm)	24.90	24.79	24.72
EIRP(Watts)	0.3090	0.3013	0.2965

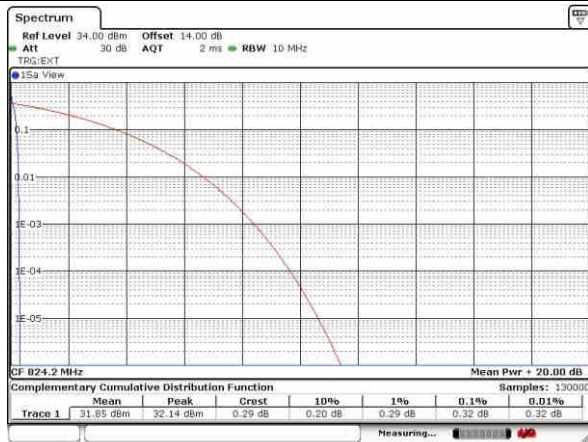
**Peak-to-Average Ratio**

Mode	GSM850(dB)			Limit: 13dB
Mod.	GSM	EDGE class 8		Result
Lowest CH	0.32	3.65		PASS
Middle CH	0.32	3.42		
Highest CH	0.32	3.59		
Mode	GSM1900(dB)			Limit: 13dB
Mod.	GSM	EDGE class 8		Result
Lowest CH	0.26	3.59		PASS
Middle CH	0.29	3.62		
Highest CH	0.26	3.71		
Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	WCDMA Band IV(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.30	3.13	3.04	PASS
Middle CH	2.99	3.07	3.10	
Highest CH	3.25	2.96	2.67	
Mode	CDMA BC0(dB)	CDMA BC1(dB)	-	
Mod.	1xRTT	1xRTT	-	
Lowest CH	3.54	3.94	-	
Middle CH	3.10	3.71	-	
Highest CH	3.48	3.91	-	



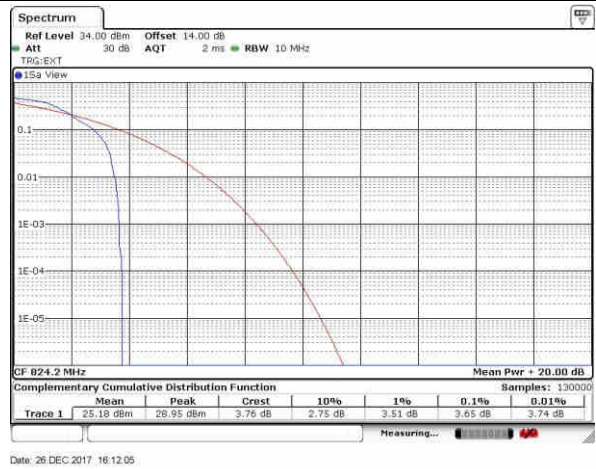
GSM850 (GSM)

Lowest Channel

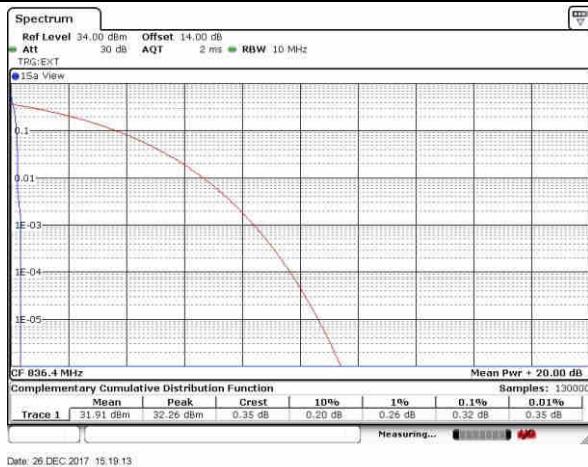


GSM850 (EDGE class 8)

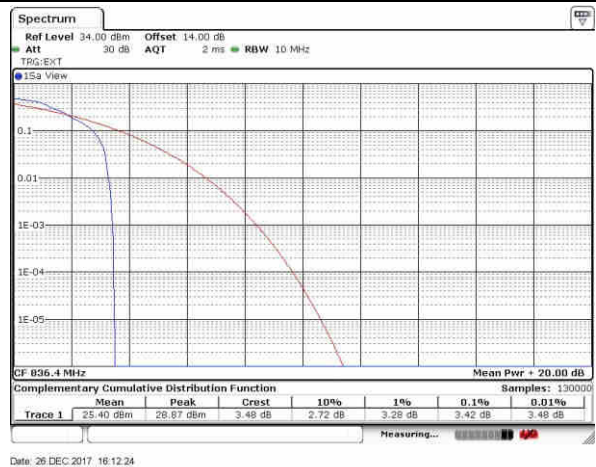
Lowest Channel



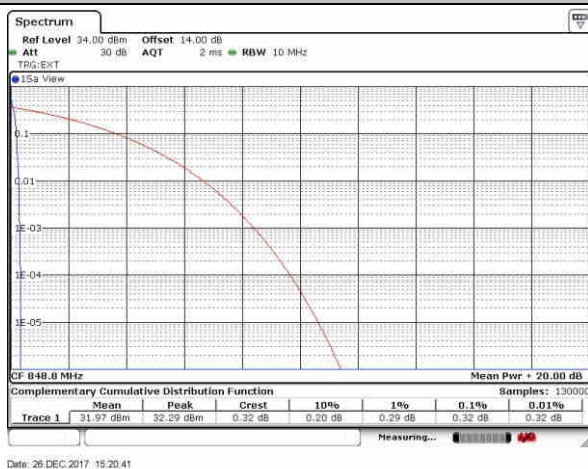
Middle Channel



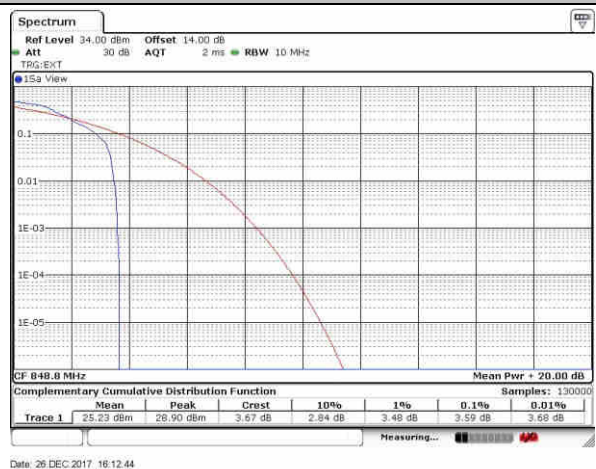
Middle Channel



Highest Channel



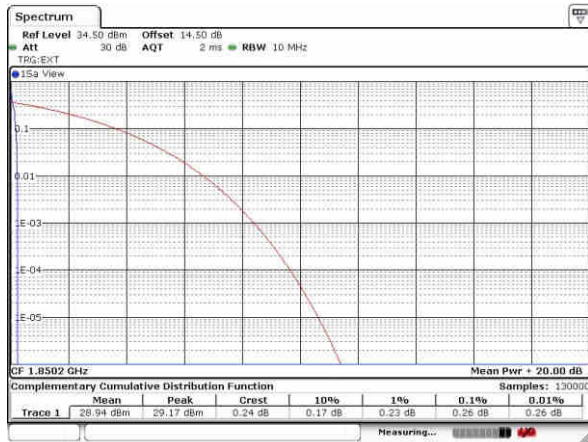
Highest Channel





GSM1900 (GSM)

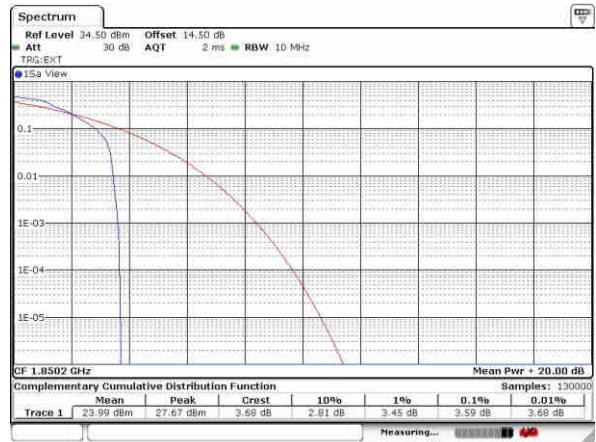
Lowest Channel



Date: 26 DEC 2017 15:51:41

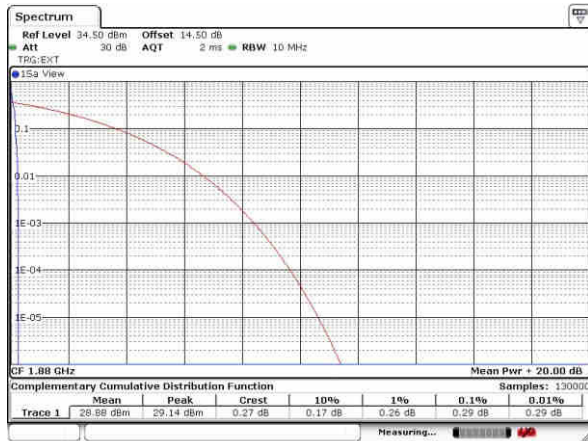
GSM1900 (EDGE class 8)

Lowest Channel



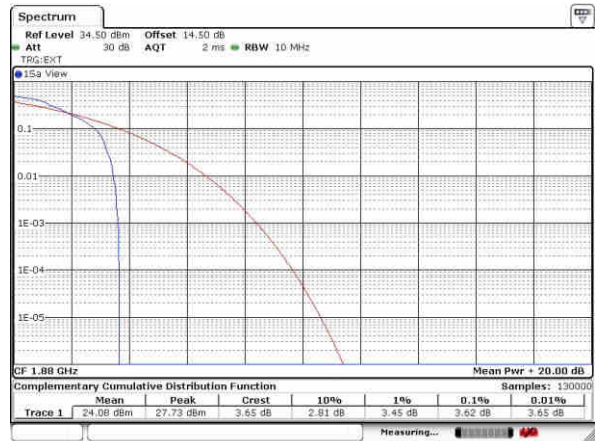
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Middle Channel



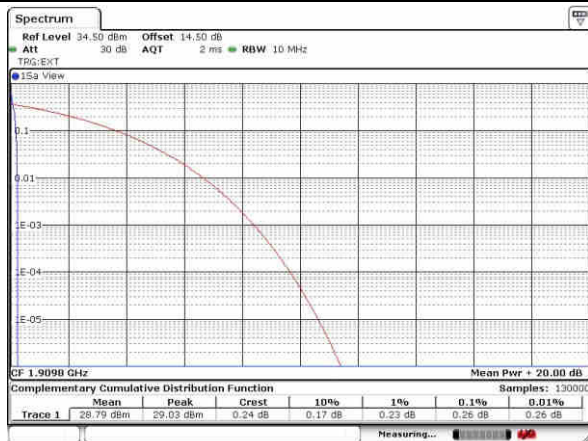
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Middle Channel



Date: 26 DEC 2017 16:38:07

Highest Channel



Date: 26 DEC 2017 15:52:12

Highest Channel

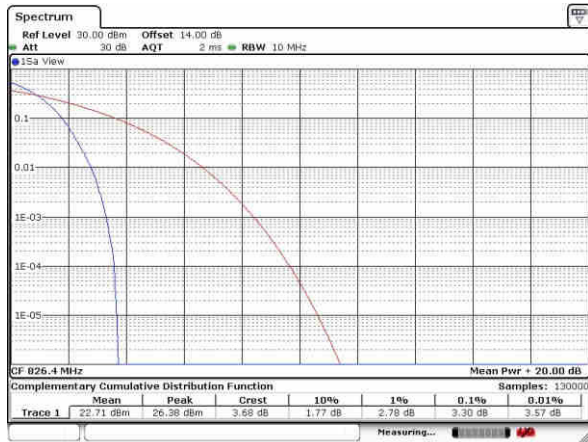


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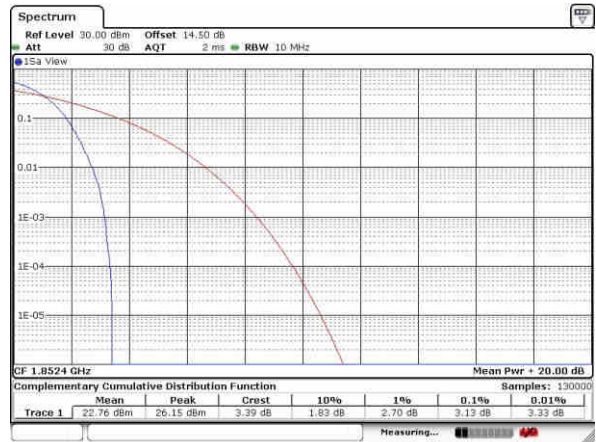
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

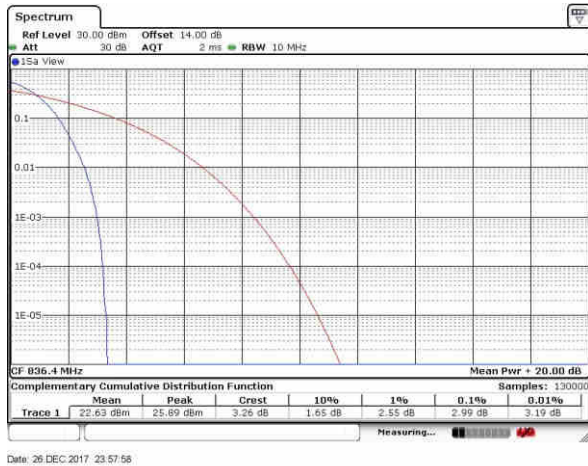


WCDMA Band II (RMC 12.2Kbps)

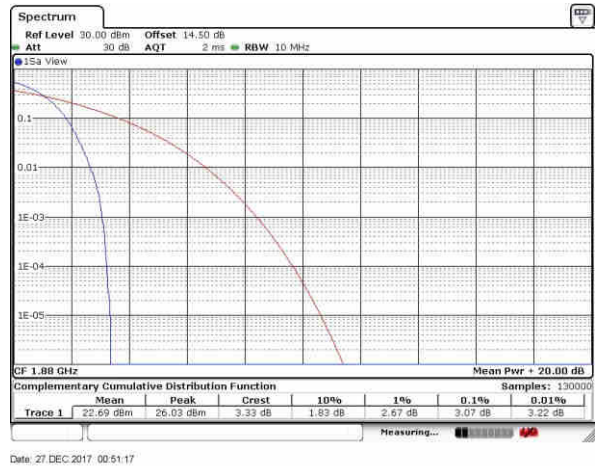
Lowest Channel



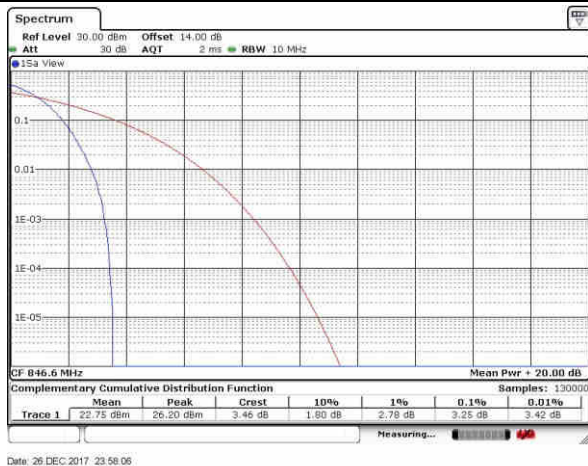
Middle Channel



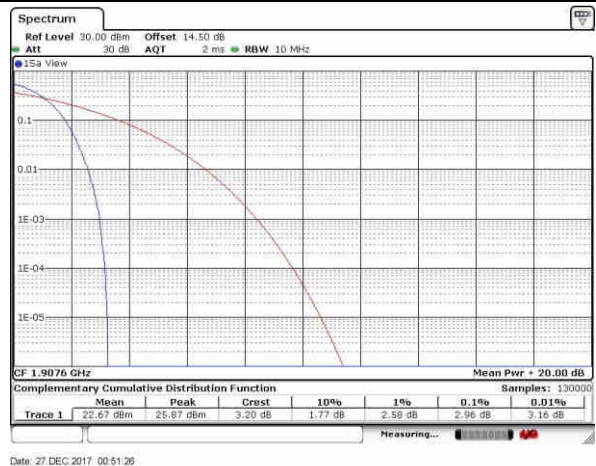
Middle Channel



Highest Channel



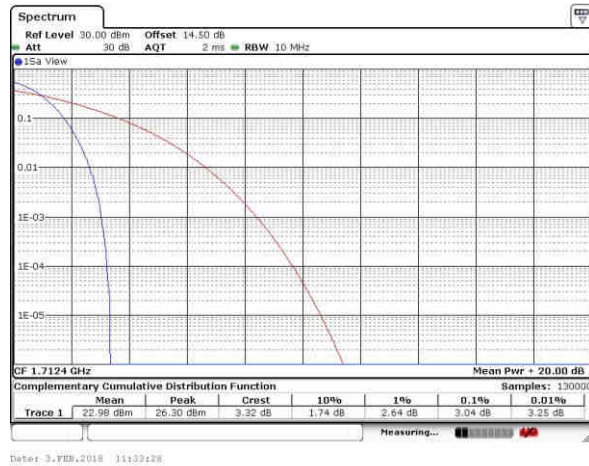
Highest Channel



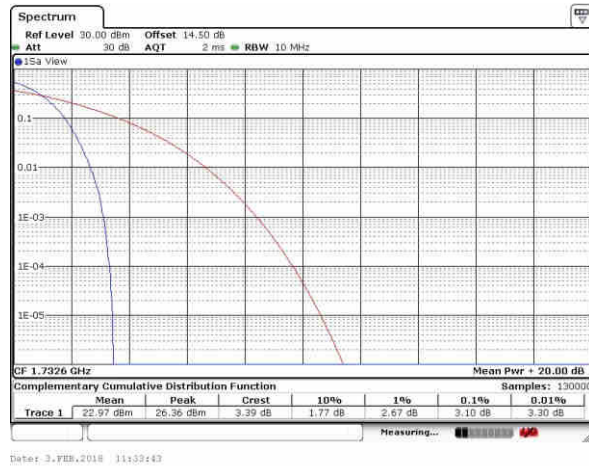


WCDMA Band IV (RMC 12.2Kbps)

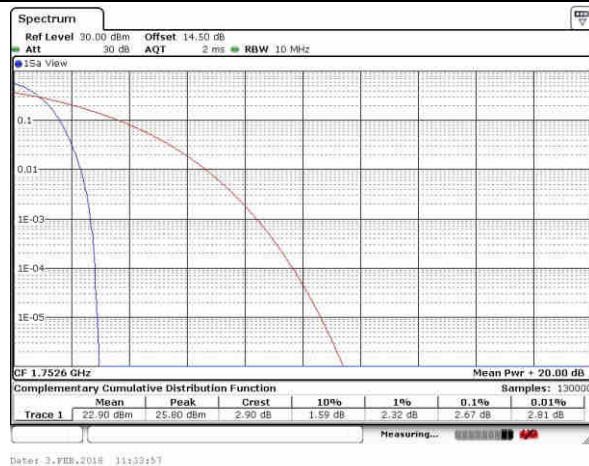
Lowest Channel



Middle Channel



Highest Channel





CDMA BC0 (1xRTT)

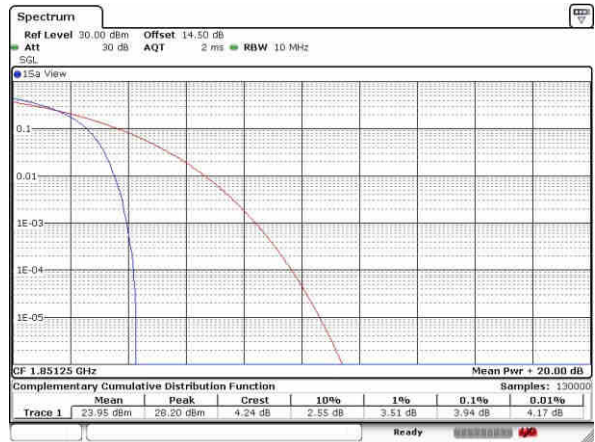
Lowest Channel



Date: 26 DEC 2017 09:50:04

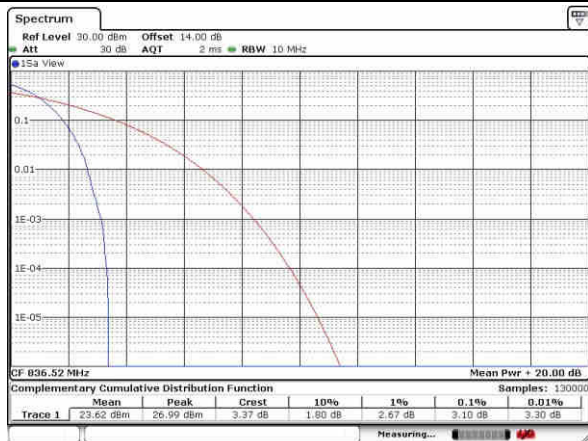
CDMA BC1 (1xRTT)

Lowest Channel



Date: 26 DEC 2017 10:28:26

Middle Channel



Date: 26 DEC 2017 09:50:22

Middle Channel



Date: 26 DEC 2017 10:28:55

Highest Channel



Date: 26 DEC 2017 09:50:38

Highest Channel



Date: 26 DEC 2017 10:29:57

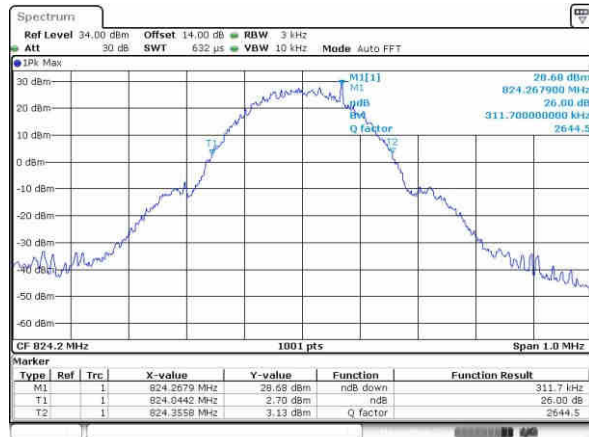
**26dB Bandwidth**

Mode	GSM850(MHz)		
Mod.	GSM	EDGE class 8	
Lowest CH	0.312	0.316	
Middle CH	0.315	0.302	
Highest CH	0.316	0.306	
Mode	GSM1900(MHz)		
Mod.	GSM	EDGE class 8	
Lowest CH	0.294	0.306	
Middle CH	0.304	0.297	
Highest CH	0.308	0.315	
Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.71	4.70	4.71
Middle CH	4.74	4.72	4.70
Highest CH	4.69	4.73	4.73
Mode	CDMA BC0(MHz)	CDMA BC1(MHz)	-
Mod.	1xRTT	1xRTT	-
Lowest CH	1.42	1.43	-
Middle CH	1.43	1.43	-
Highest CH	1.42	1.43	-



GSM850 (GSM)

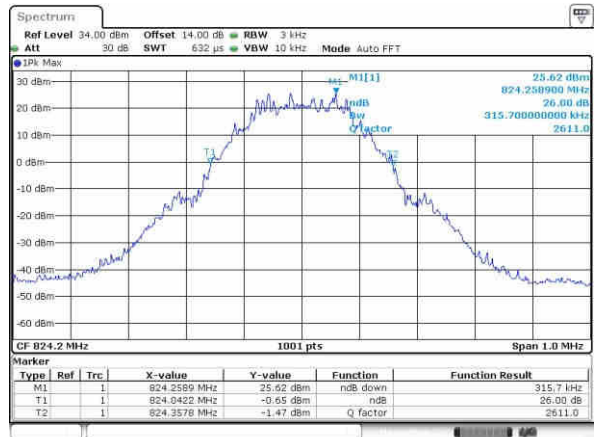
Lowest Channel



Date: 26 DEC 2017 15:08:58

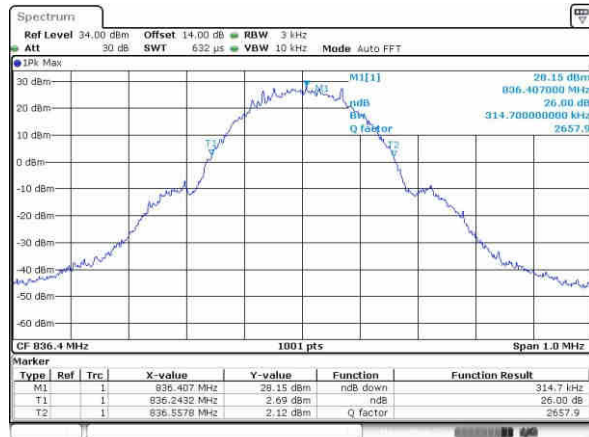
GSM850 (EDGE class 8)

Lowest Channel



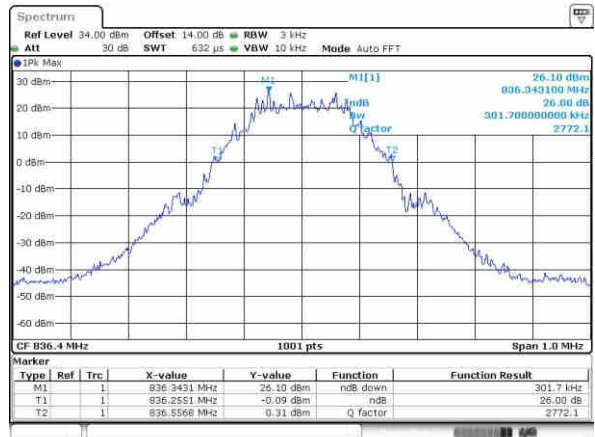
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Middle Channel



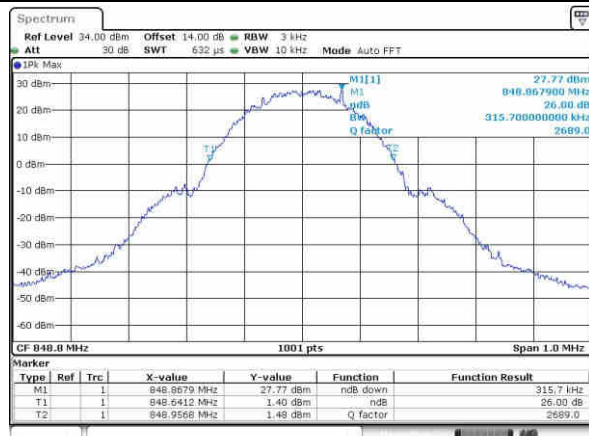
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Middle Channel



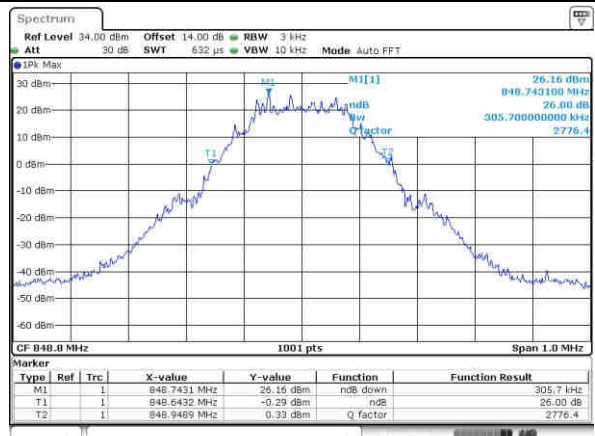
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Highest Channel



Date: 26 DEC 2017 15:10:15

Highest Channel

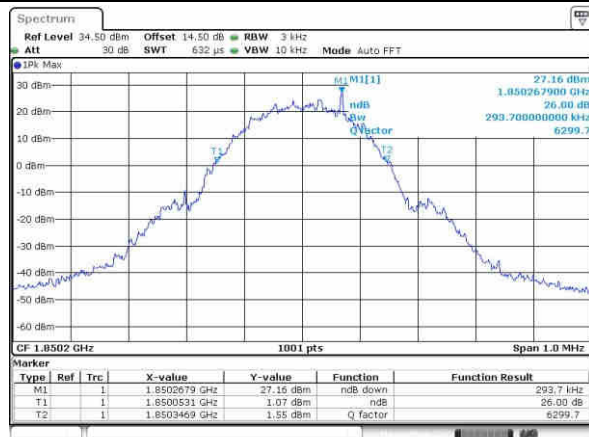


Date: 26 DEC 2017 16:05:24



GSM1900 (GSM)

Lowest Channel



Date: 26 DEC 2017 15:40:24

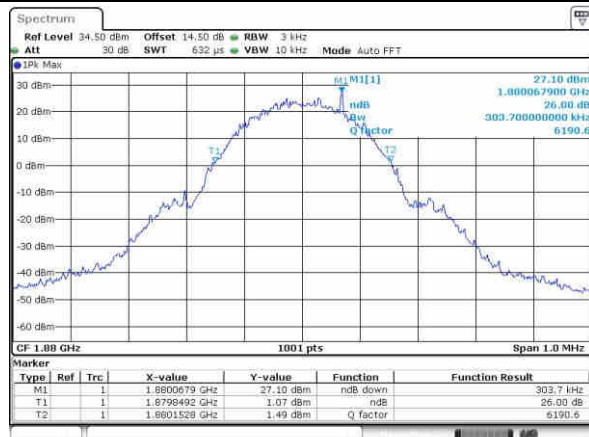
GSM1900 (EDGE class 8)

Lowest Channel



Date: 26 DEC 2017 16:31:00

Middle Channel



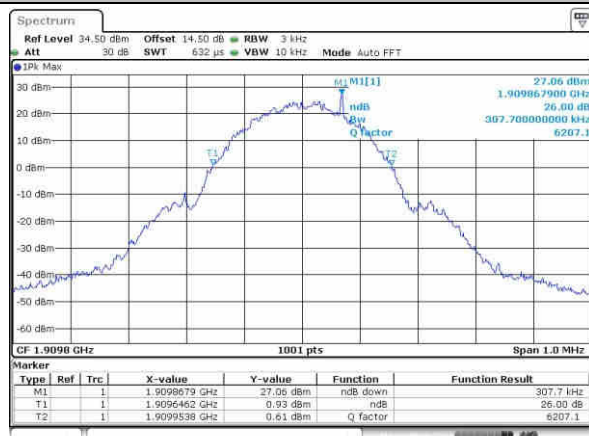
Date: 26 DEC 2017 15:41:02

Middle Channel



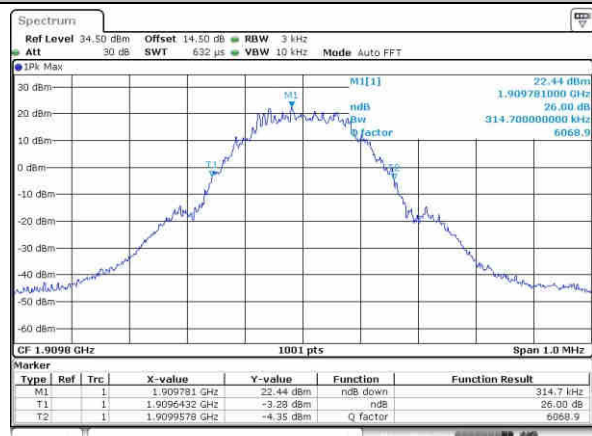
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Highest Channel



Date: 26 DEC 2017 15:41:40

Highest Channel

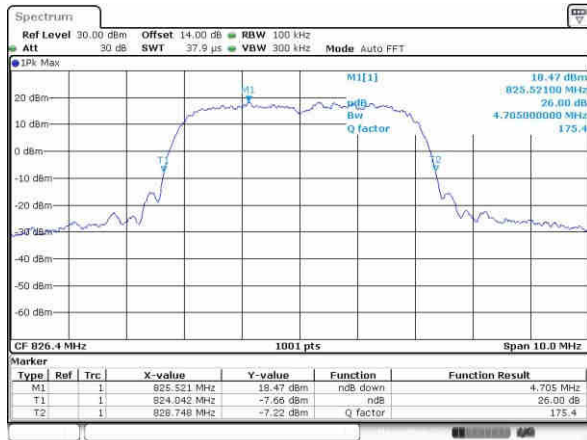


Date: 26 DEC 2017 16:32:46



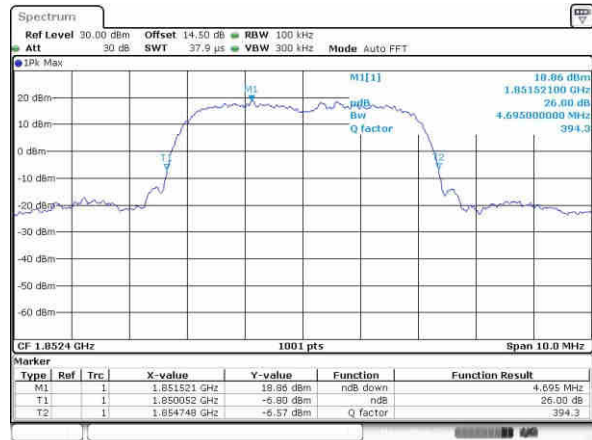
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

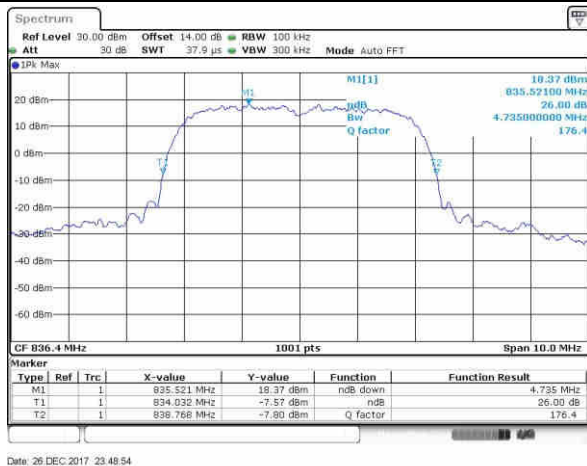


WCDMA Band II (RMC 12.2Kbps)

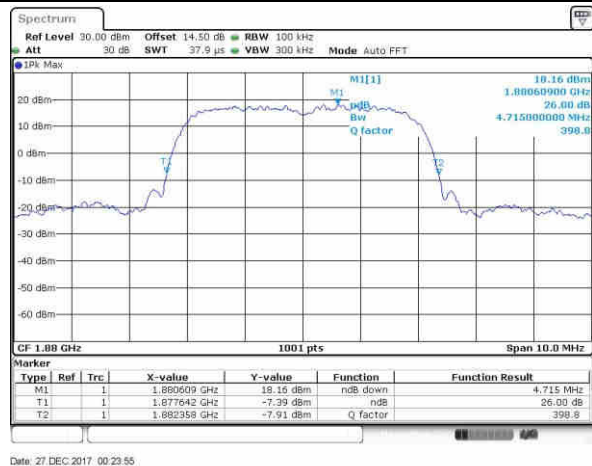
Lowest Channel



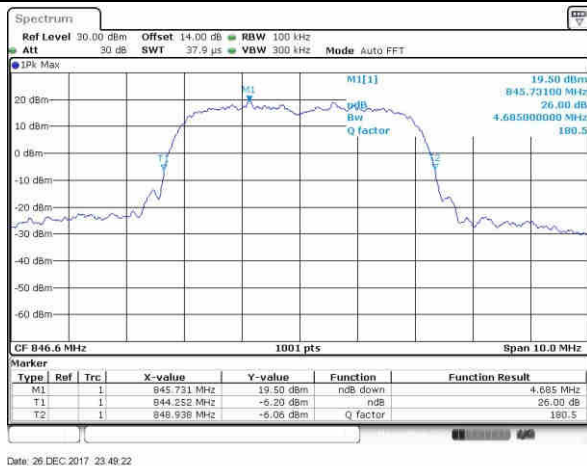
Middle Channel



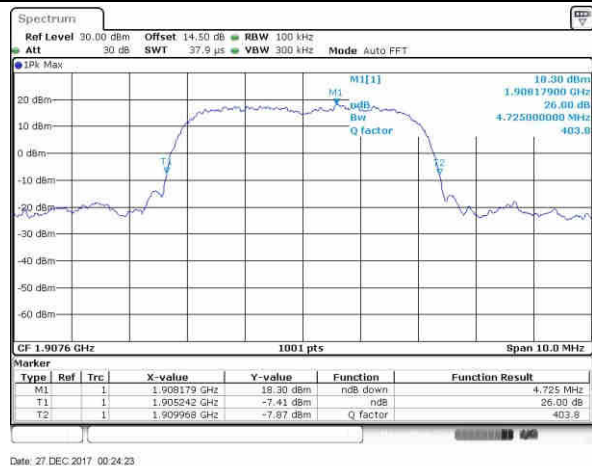
Middle Channel



Highest Channel



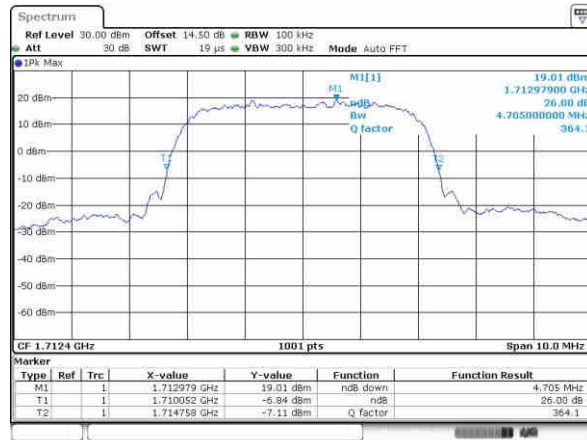
Highest Channel



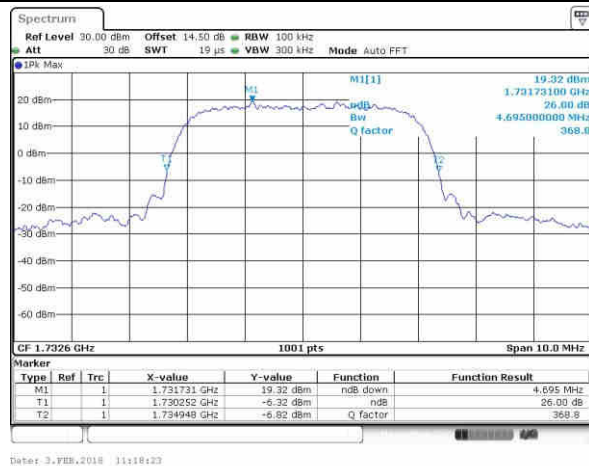


WCDMA Band IV (RMC 12.2Kbps)

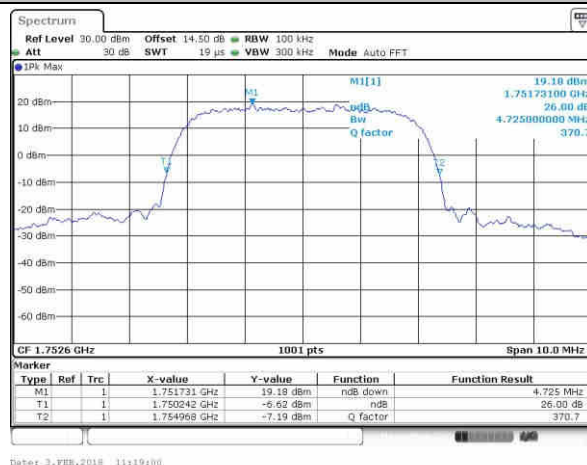
Lowest Channel



Middle Channel



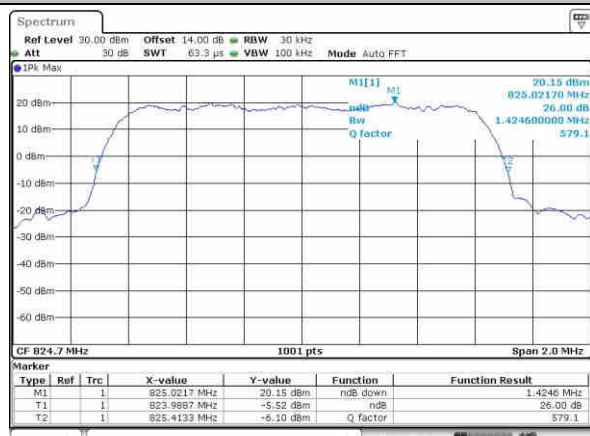
Highest Channel





CDMA BC0 (1xRTT)

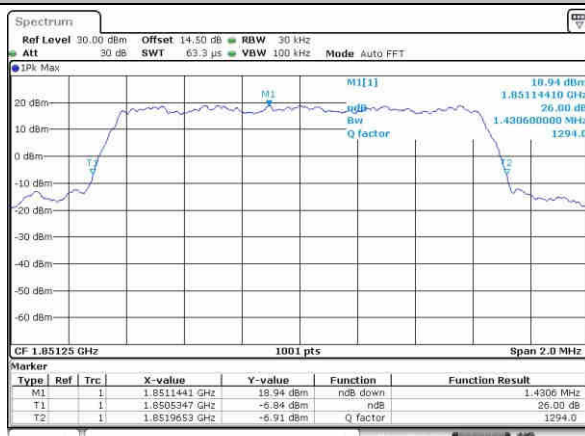
Lowest Channel



Date: 26, DEC, 2017 09:01:54

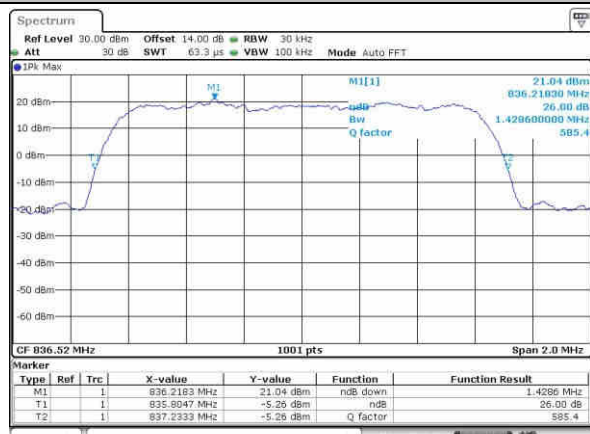
CDMA BC1 (1xRTT)

Lowest Channel



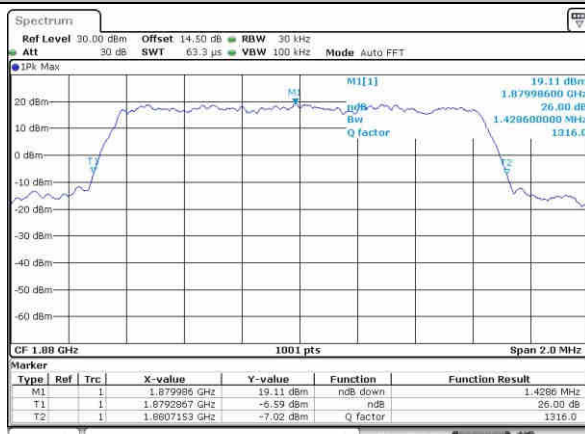
Date: 26 DEC 2017 10:16:29

Middle Channel



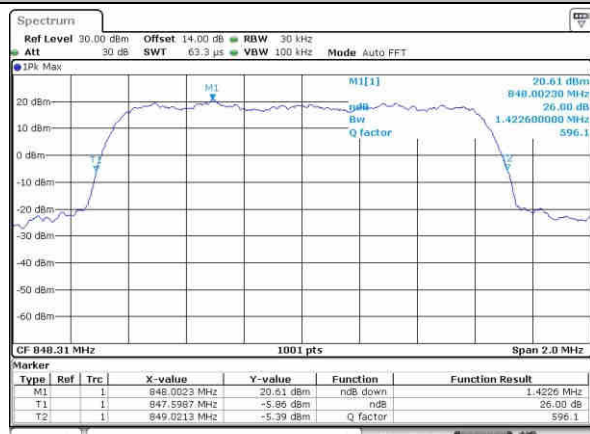
Date: 26, DEC, 2017 09:02:46

Middle Channel



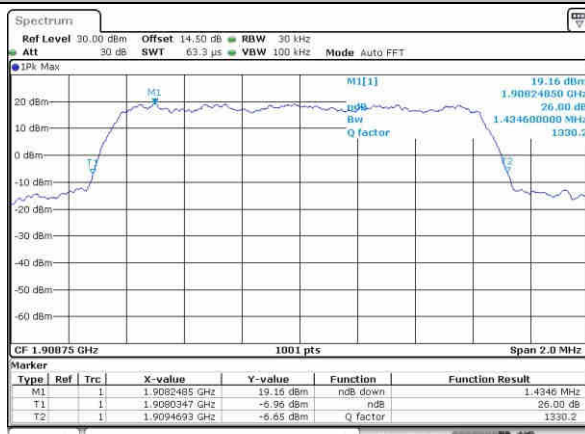
Date: 26 DEC 2017 10:17:09

Highest Channel



Date: 26, DEC, 2017 09:03:38

Highest Channel



Date: 26 DEC 2017 10:17:51

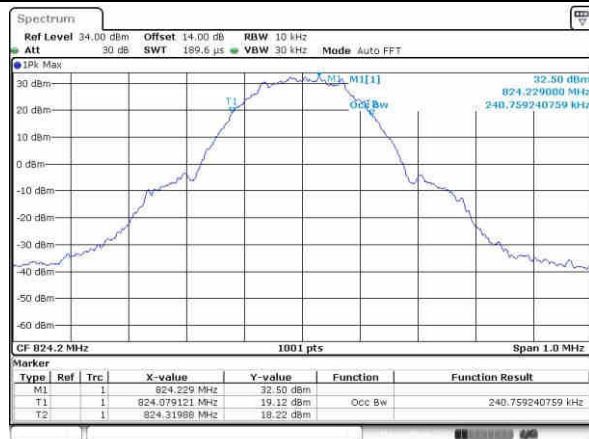
**Occupied Bandwidth**

Mode	GSM850(MHz)		
Mod.	GSM	EDGE class 8	
Lowest CH	0.241	0.234	
Middle CH	0.243	0.235	
Highest CH	0.241	0.235	
Mode	GSM1900(MHz)		
Mod.	GSM	EDGE class 8	
Lowest CH	0.242	0.236	
Middle CH	0.239	0.236	
Highest CH	0.242	0.237	
Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.12	4.14	4.12
Middle CH	4.14	4.15	4.13
Highest CH	4.13	4.15	4.13
Mode	CDMA BC0(MHz)	CDMA BC1(MHz)	-
Mod.	1xRTT	1xRTT	-
Lowest CH	1.28	1.28	-
Middle CH	1.27	1.28	-
Highest CH	1.27	1.27	-



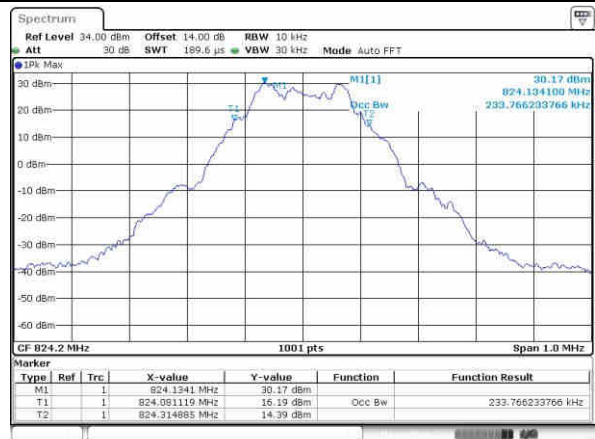
GSM850 (GSM)

Lowest Channel



GSM850 (EDGE class 8)

Lowest Channel



Middle Channel



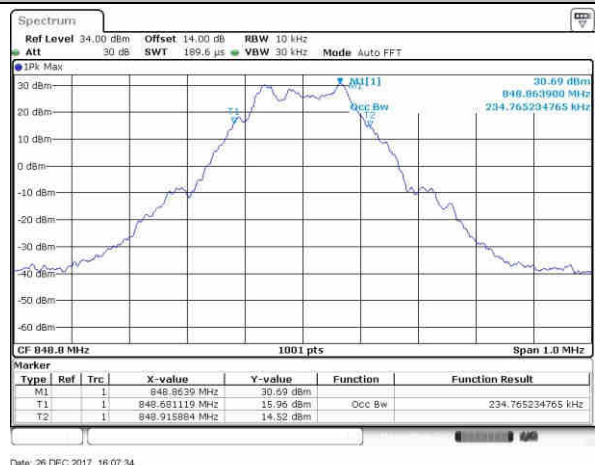
Middle Channel



Highest Channel



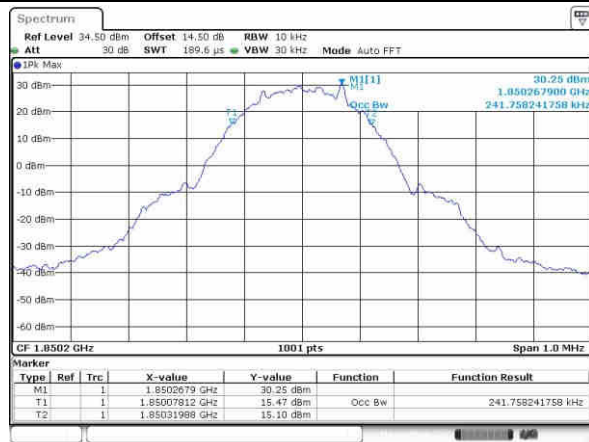
Highest Channel





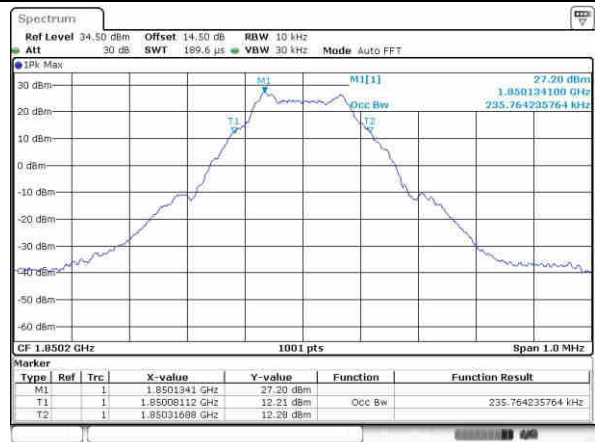
GSM1900 (GSM)

Lowest Channel

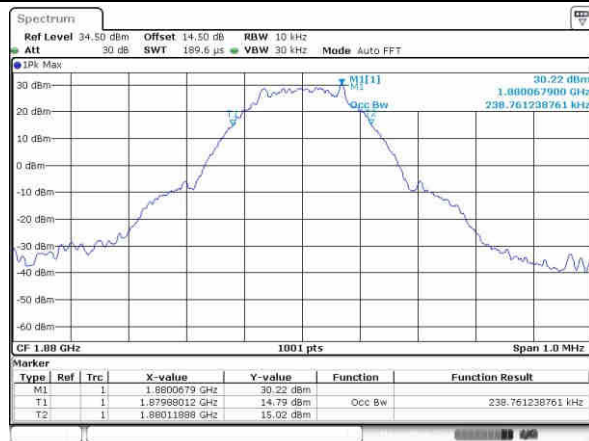


GSM1900 (EDGE class 8)

Lowest Channel



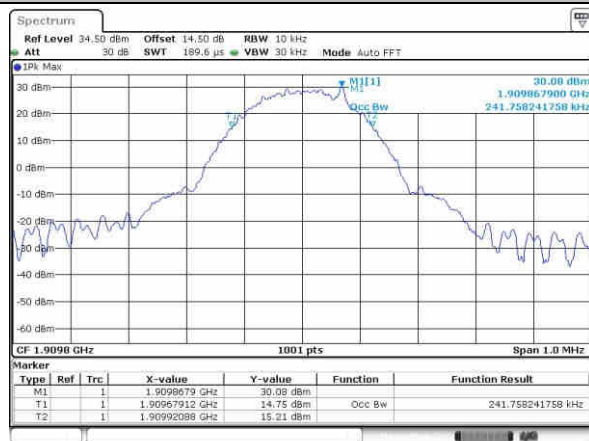
Middle Channel



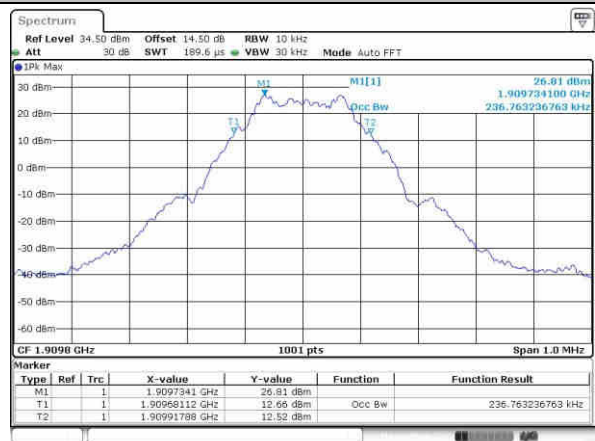
Middle Channel



Highest Channel



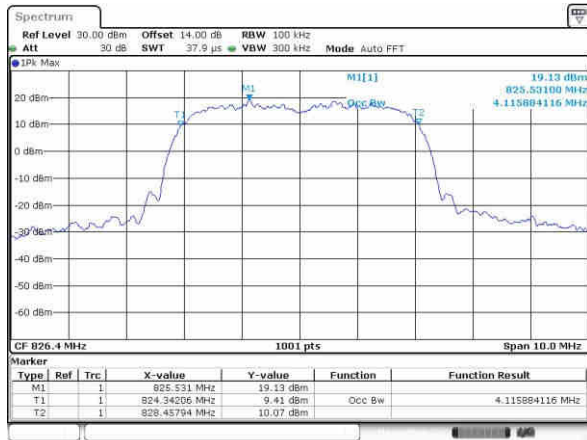
Highest Channel





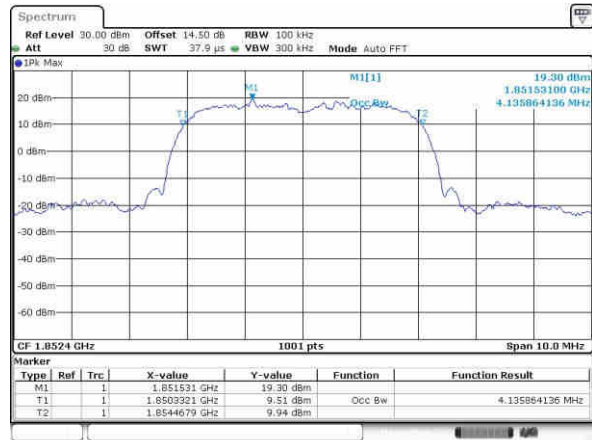
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

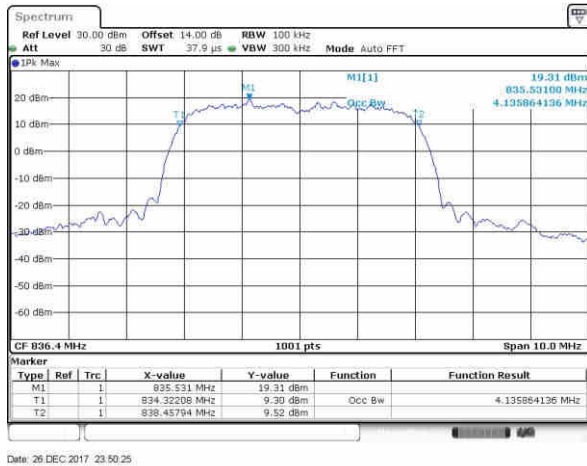


WCDMA Band II (RMC 12.2Kbps)

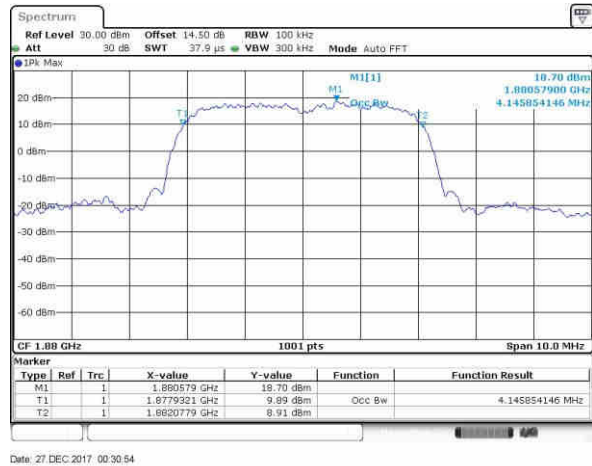
Lowest Channel



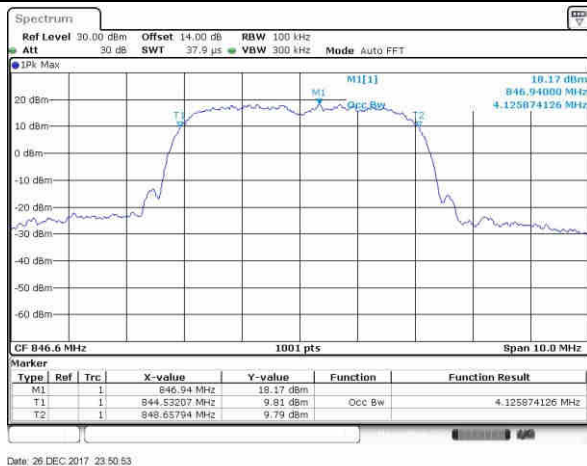
Middle Channel



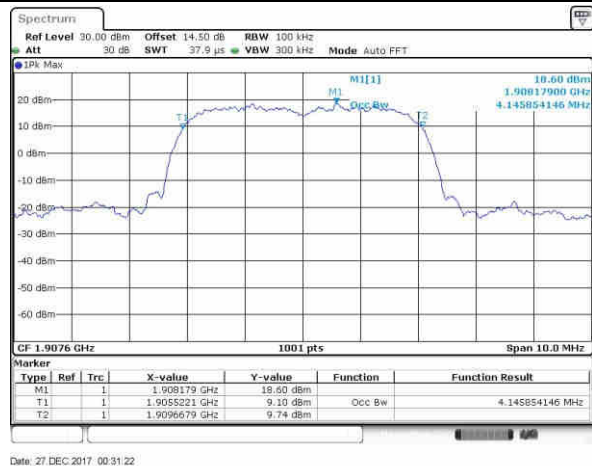
Middle Channel



Highest Channel



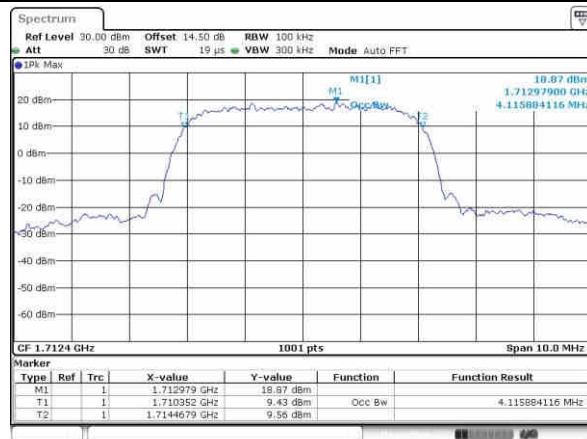
Highest Channel



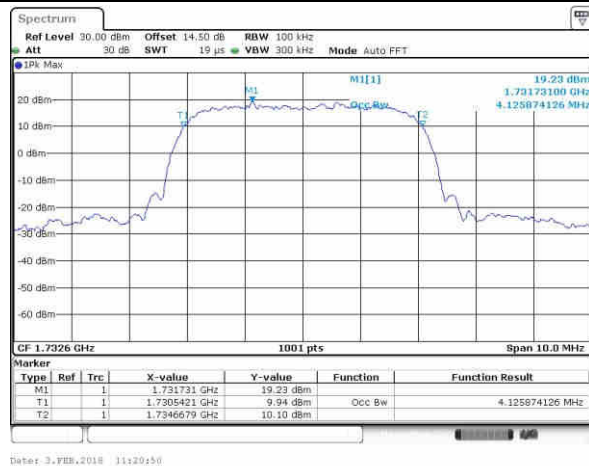


WCDMA Band IV (RMC 12.2Kbps)

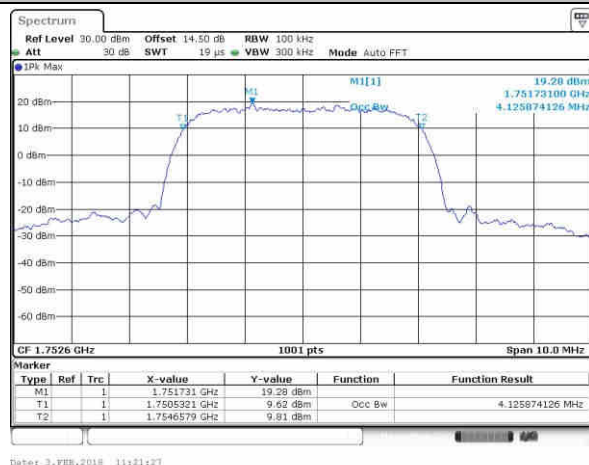
Lowest Channel



Middle Channel



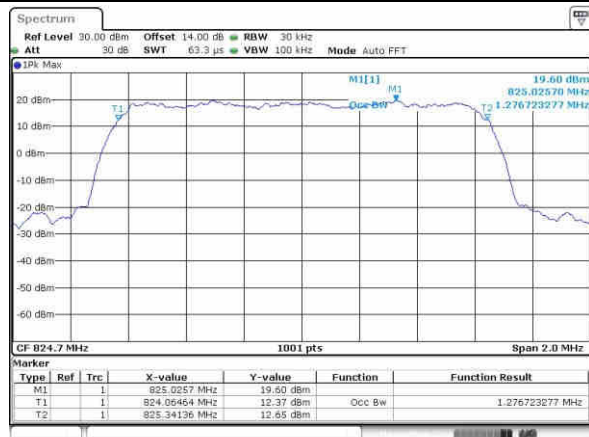
Highest Channel





CDMA BC0 (1xRTT)

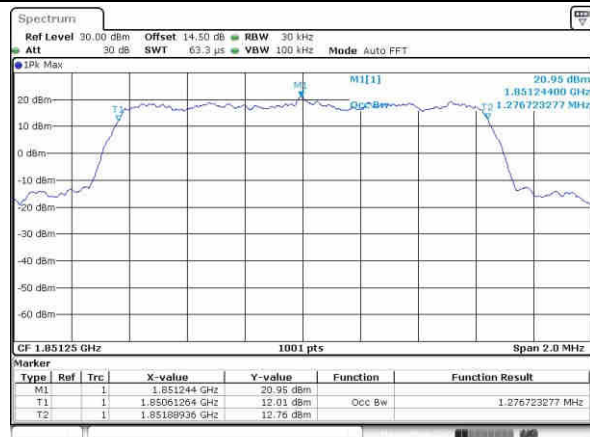
Lowest Channel



Date: 26, DEC, 2017 09:04:46

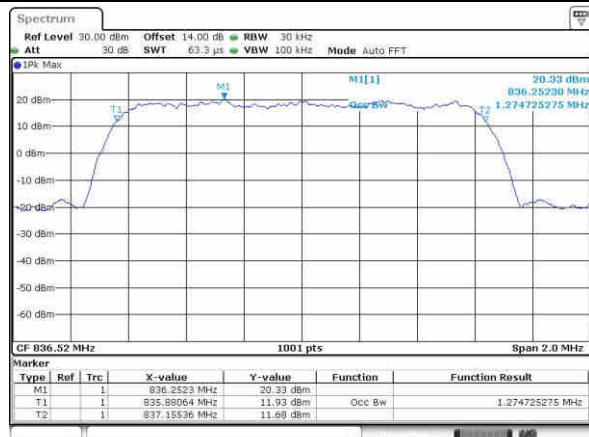
CDMA BC1(1xRTT)

Lowest Channel



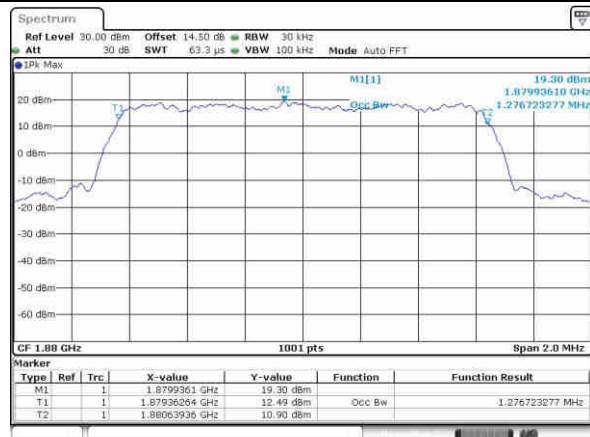
Date: 26 DEC 2017 10:18:48

Middle Channel



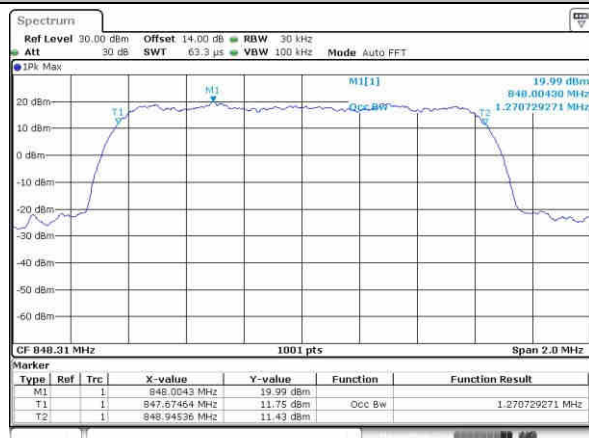
Date: 26, DEC, 2017 09:05:42

Middle Channel



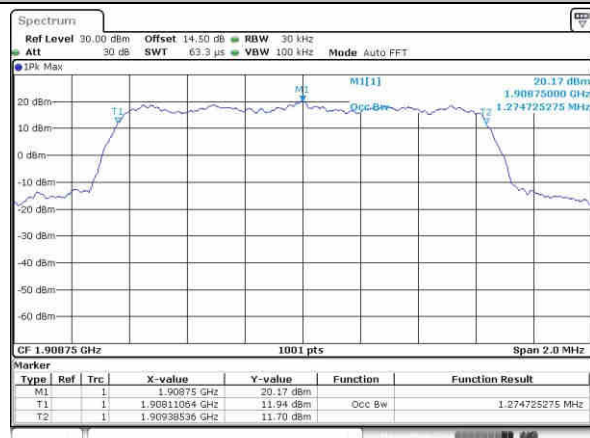
Date: 26 DEC 2017 10:18:26

Highest Channel

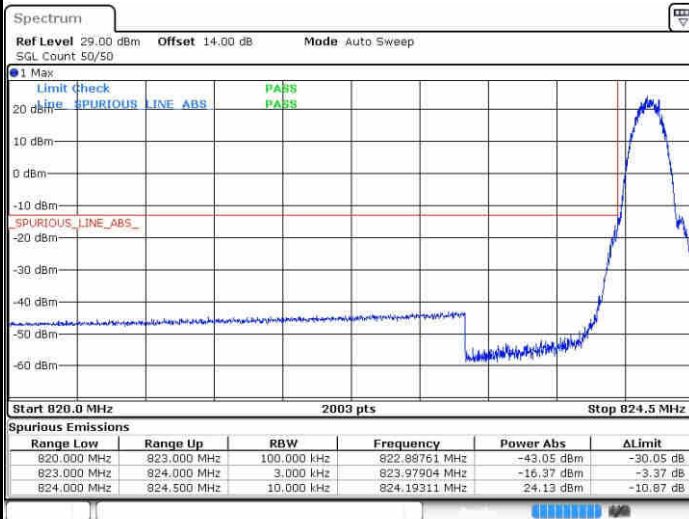
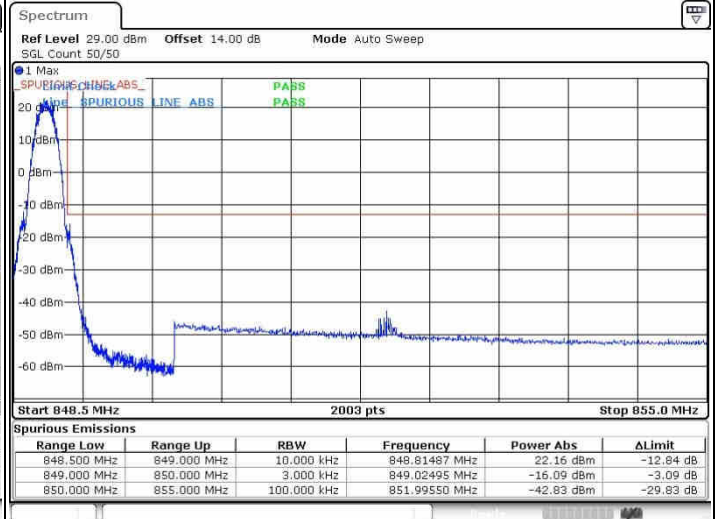
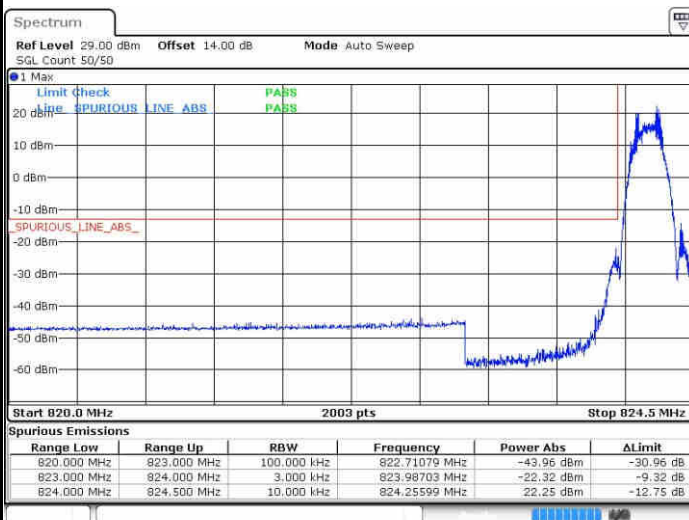
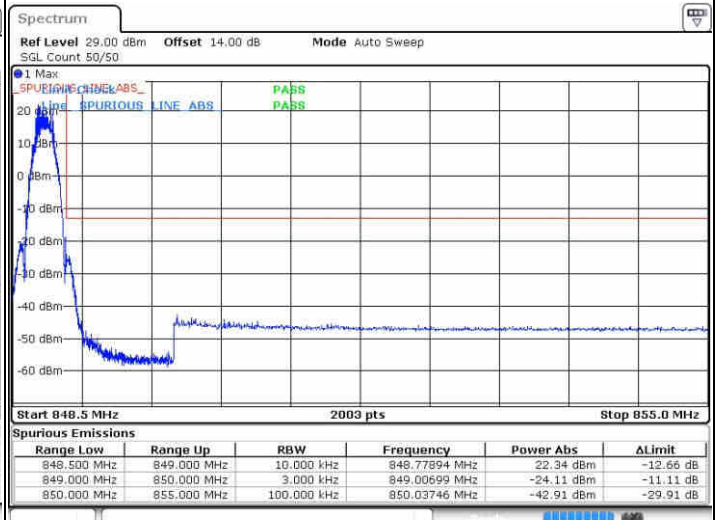


Date: 26, DEC, 2017 09:06:28

Highest Channel



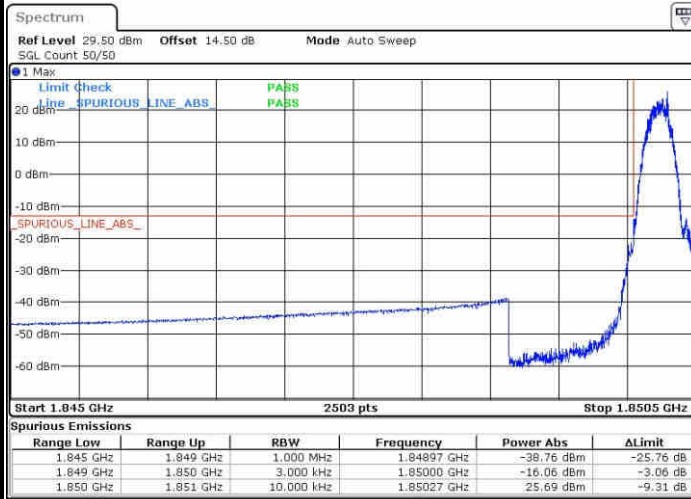
Date: 26 DEC 2017 10:20:07

**Conducted Band Edge****GSM850 (GSM)****Lowest Band Edge****Highest Band Edge****GSM850 (EDGE class 8)****Lowest Band Edge****Highest Band Edge**

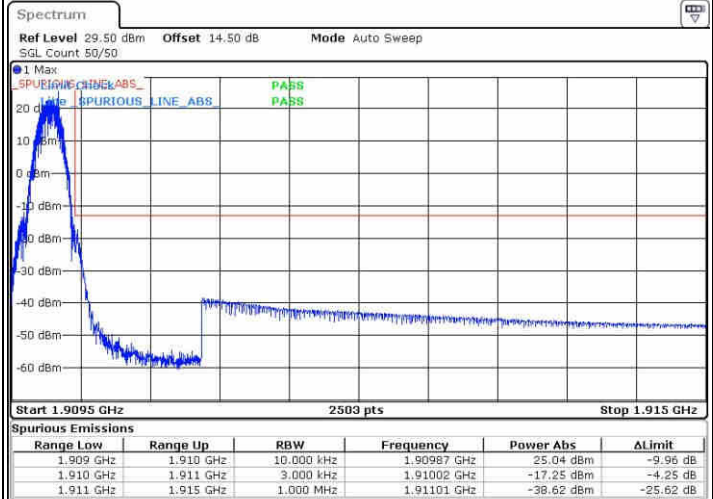


GSM1900 (GSM)

Lowest Band Edge

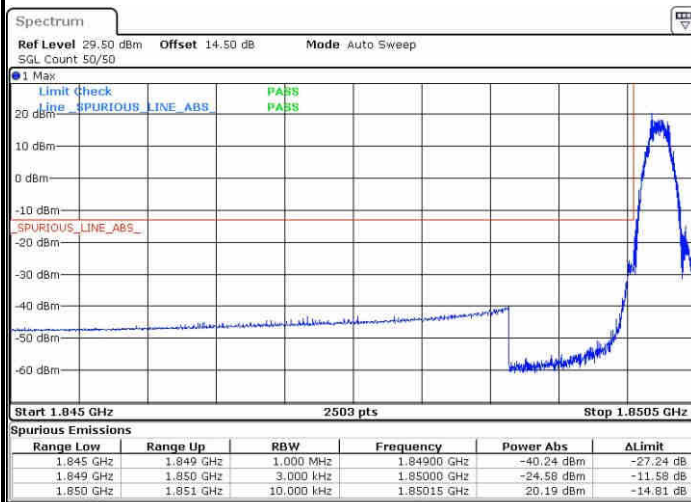


Highest Band Edge

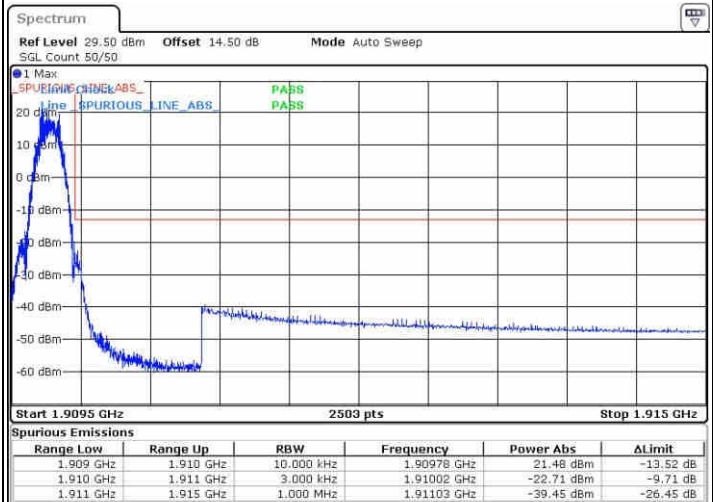


GSM1900 (EDGE class 8)

Lowest Band Edge



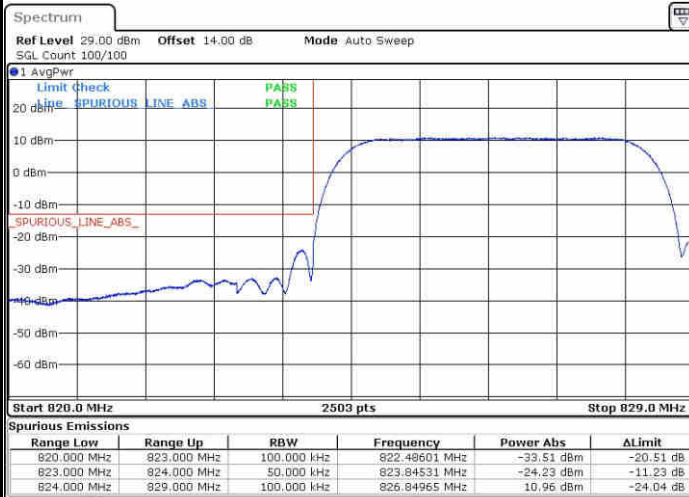
Highest Band Edge





WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

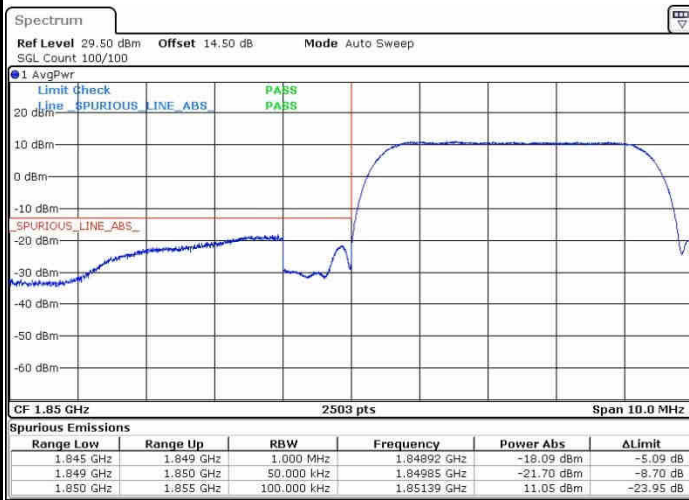


Highest Band Edge



WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge





WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Date: 3.FEB.2018 11:24:33

Highest Band Edge

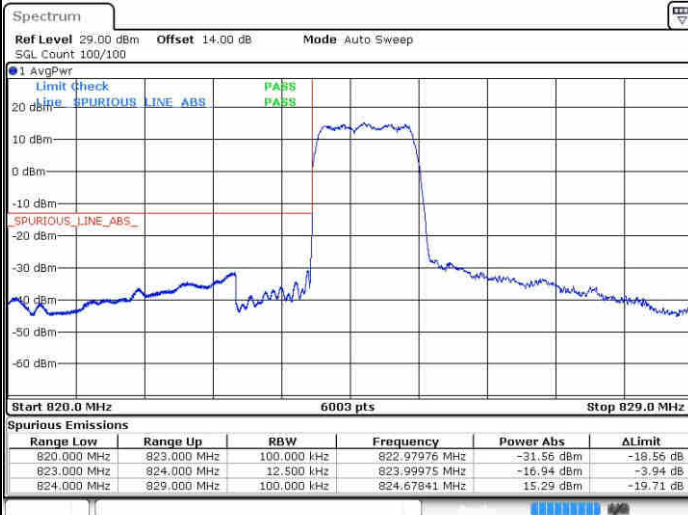


Date: 3.FEB.2018 11:27:31



CDMA BC0 (1xRTT)

Lowest Band Edge

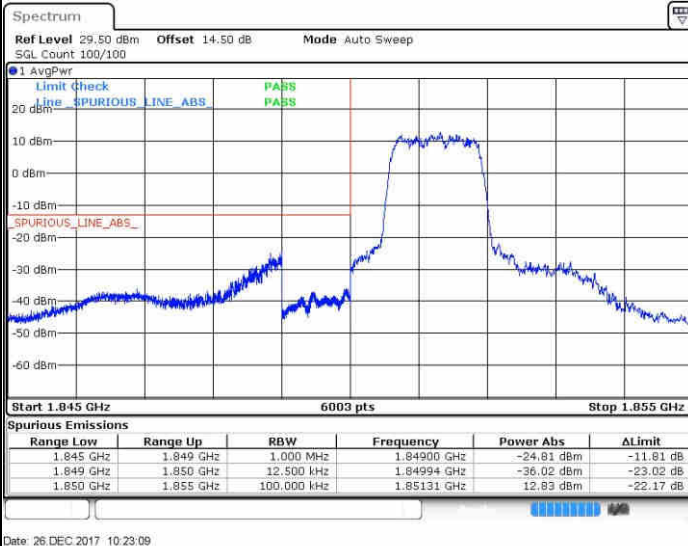


Highest Band Edge

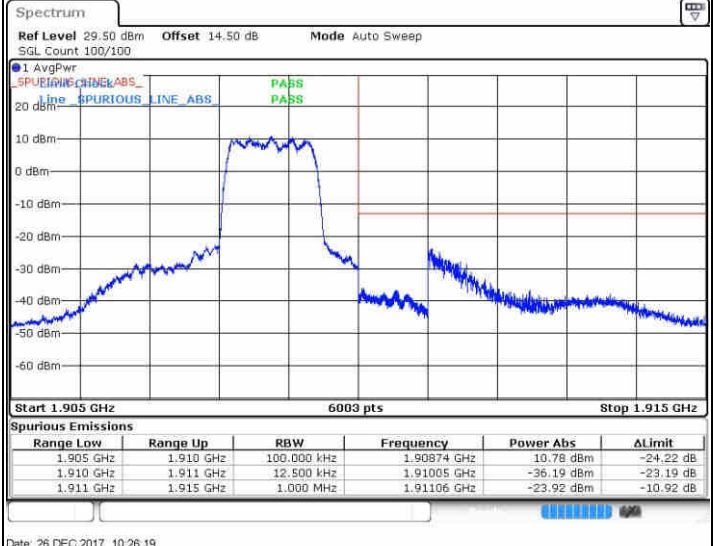


CDMA BC1 (1xRTT)

Lowest Band Edge



Highest Band Edge

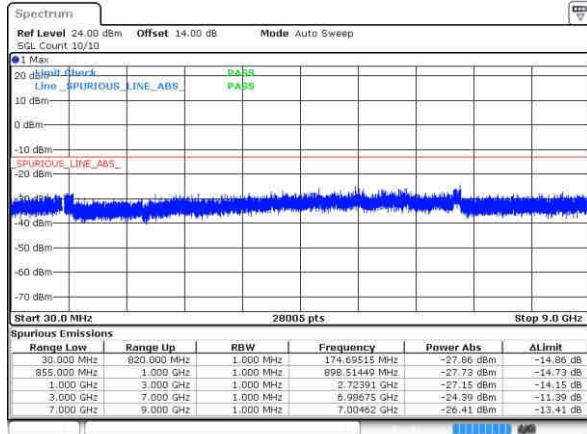




Conducted Spurious Emission

GSM850 (GSM)

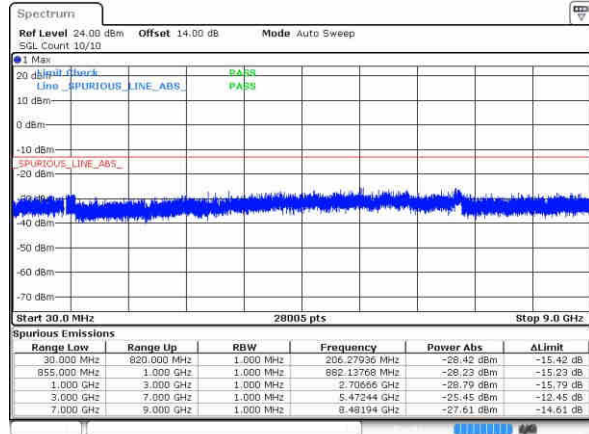
Lowest Channel



Date: 26 DEC 2017 15:23:59

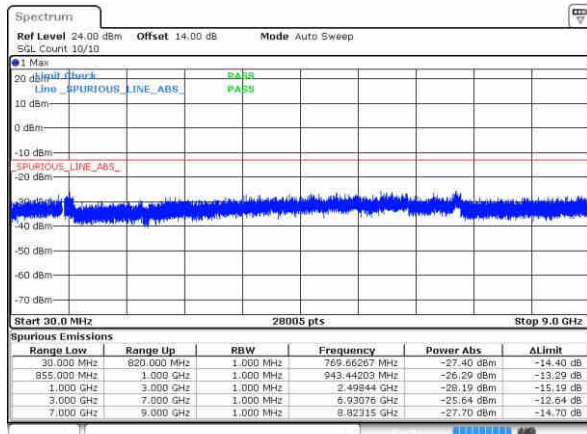
GSM850 (EDGE class 8)

Lowest Channel



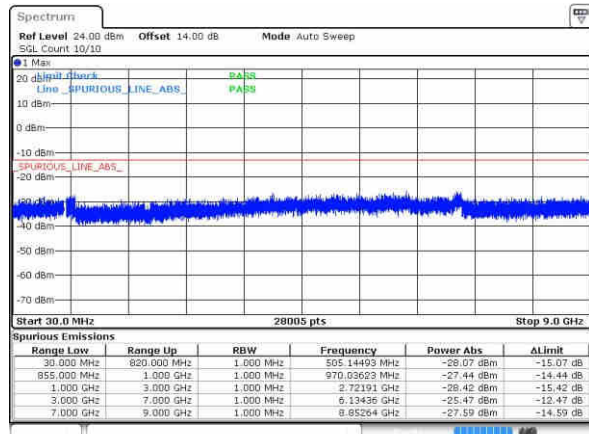
Date: 26 DEC 2017 16:16:15

Middle Channel



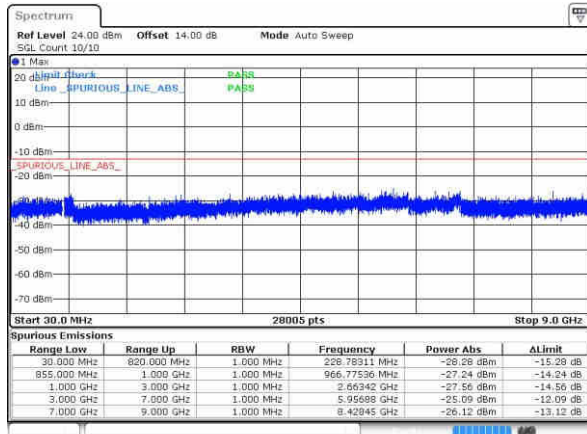
Date: 26 DEC 2017 15:25:27

Middle Channel



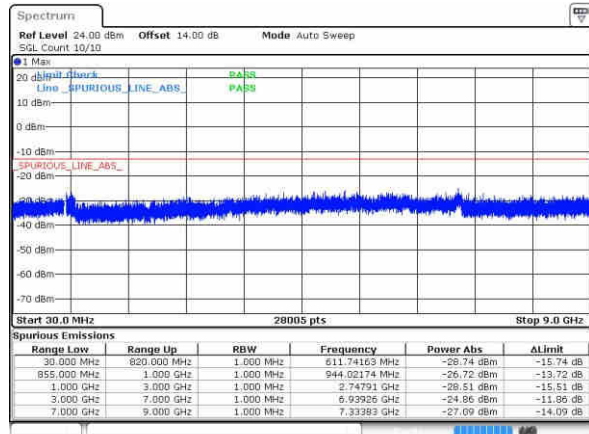
Date: 26 DEC 2017 16:24:03

Highest Channel



Date: 26 DEC 2017 15:26:50

Highest Channel

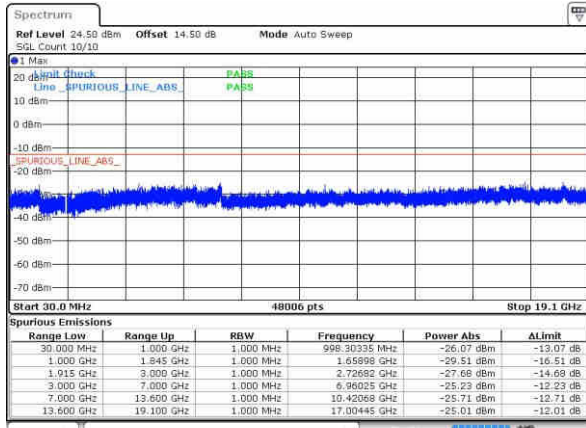


Date: 26 DEC 2017 16:25:43



GSM1900 (GSM)

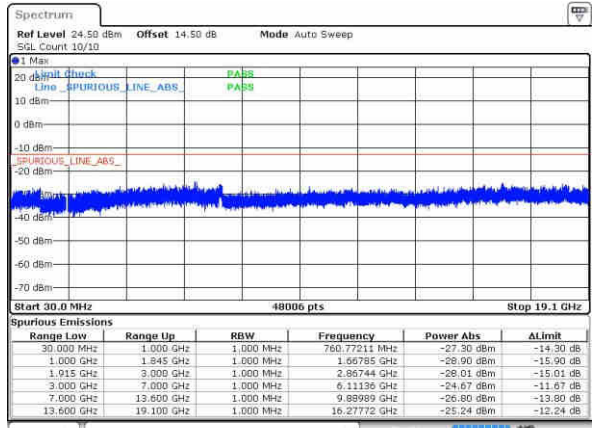
Lowest Channel



Date: 26 DEC 2017 15:35:34

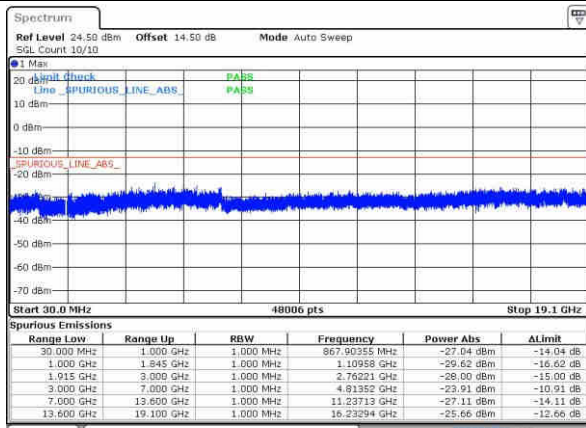
GSM1900 (EDGE class 8)

Lowest Channel



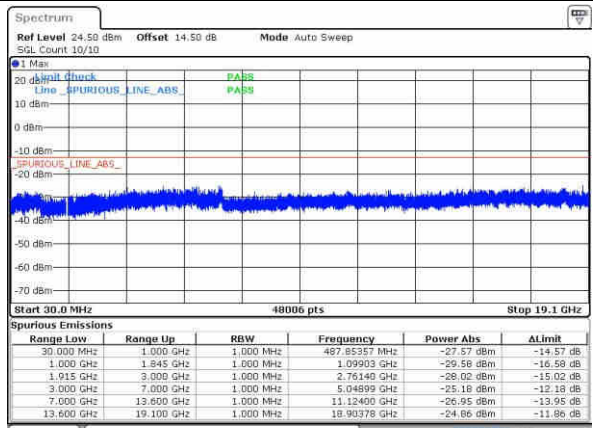
Date: 26 DEC 2017 16:42:24

Middle Channel



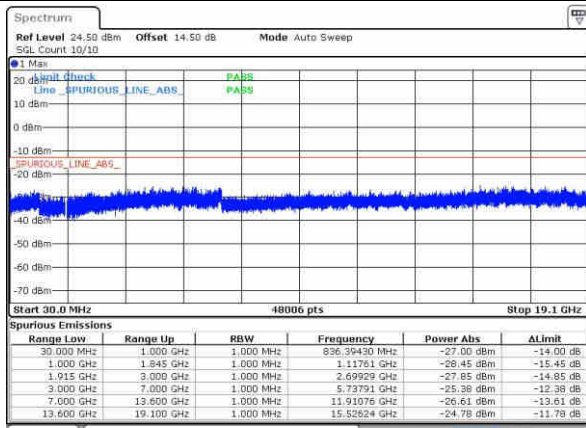
Date: 26 DEC 2017 15:37:06

Middle Channel



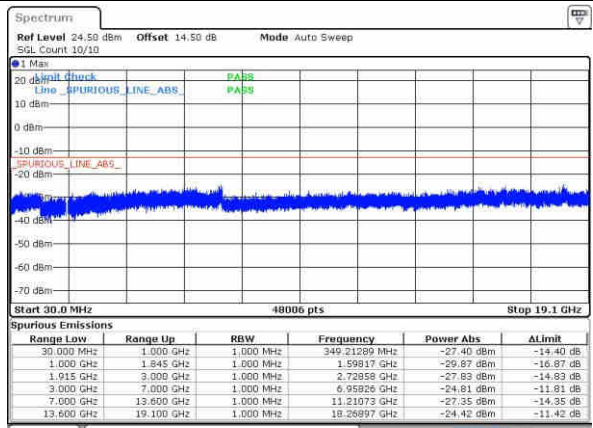
Date: 26 DEC 2017 16:44:09

Highest Channel



Date: 26 DEC 2017 15:38:35

Highest Channel

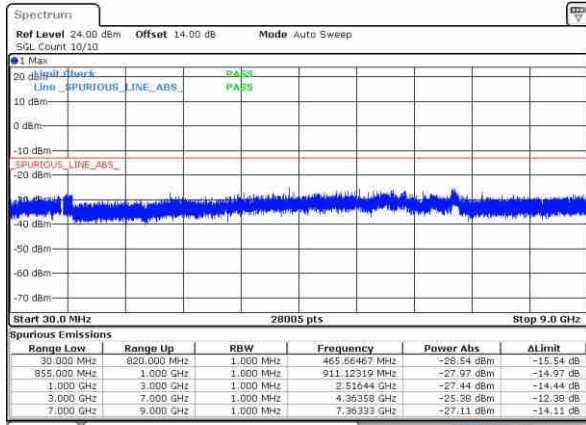


Date: 26 DEC 2017 16:45:37



WCDMA Band V (RMC 12.2Kbps)

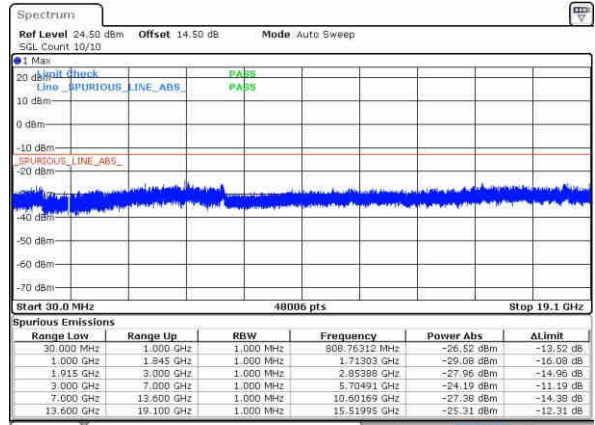
Lowest Channel



Date: 27 DEC 2017 00:00:34

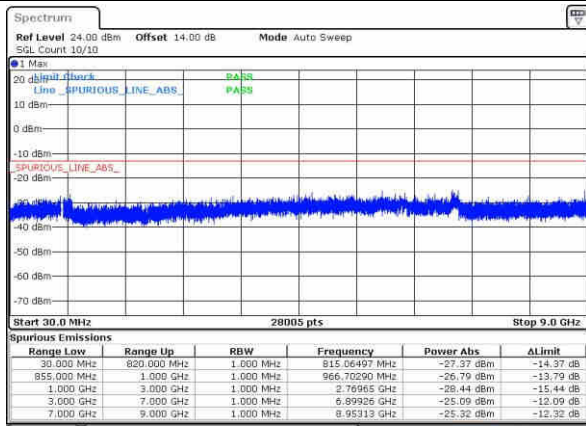
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



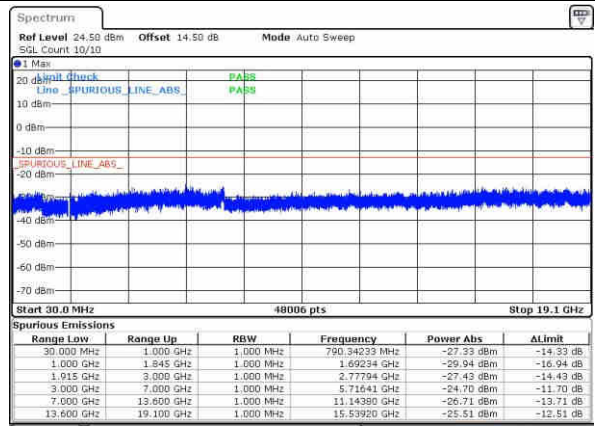
Date: 27 DEC 2017 00:17:06

Middle Channel



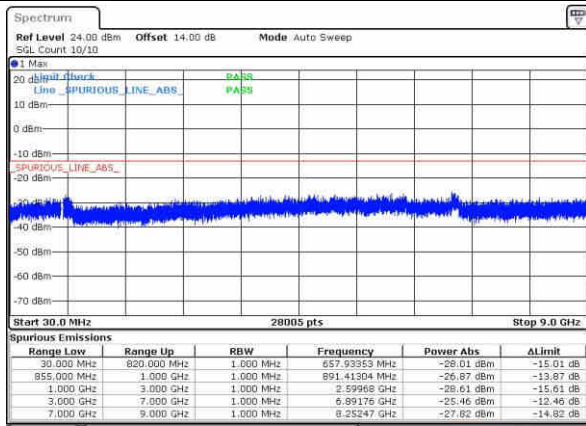
Date: 27 DEC 2017 00:01:49

Middle Channel



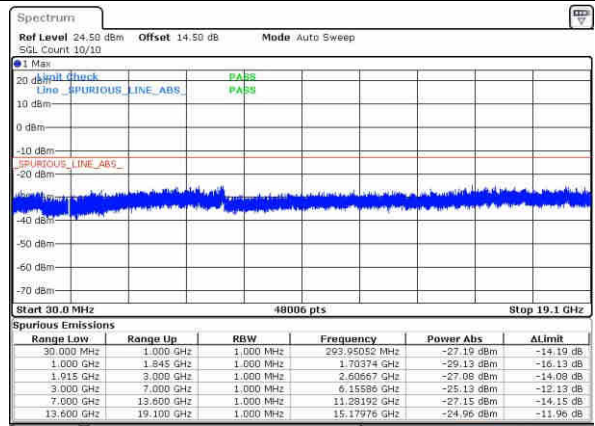
Date: 27 DEC 2017 00:18:22

Highest Channel



Date: 27 DEC 2017 00:03:05

Highest Channel

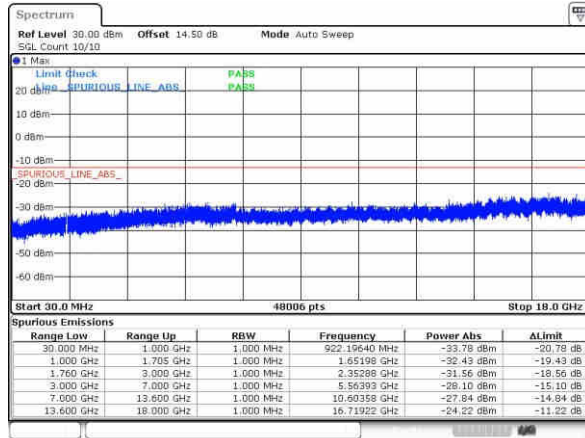


Date: 27 DEC 2017 00:19:38

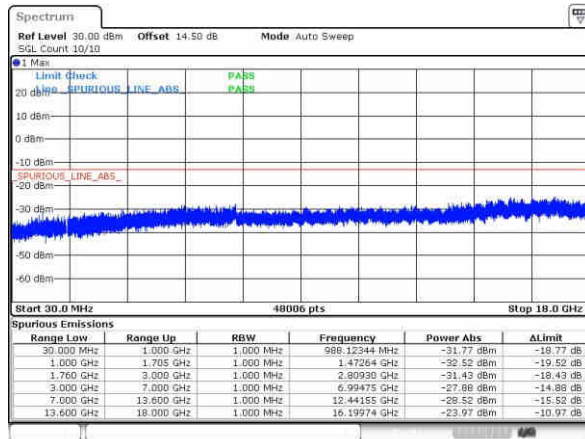


WCDMA Band IV (RMC 12.2Kbps)

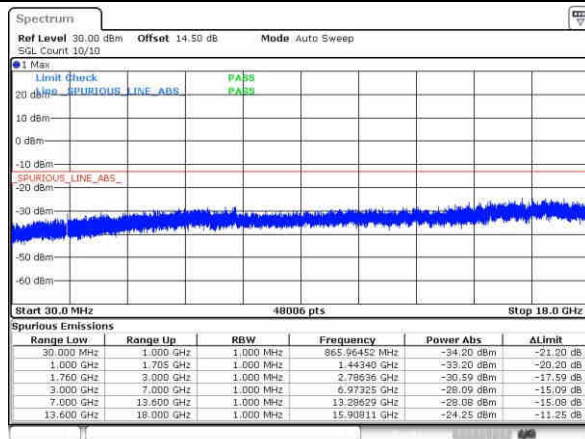
Lowest Channel



Middle Channel



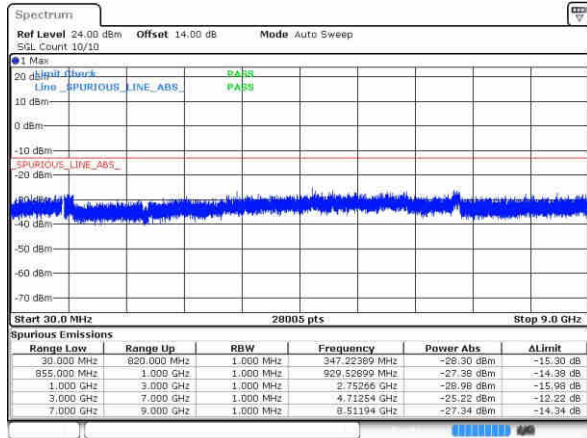
Highest Channel





CDMA BC0 (1xRTT)

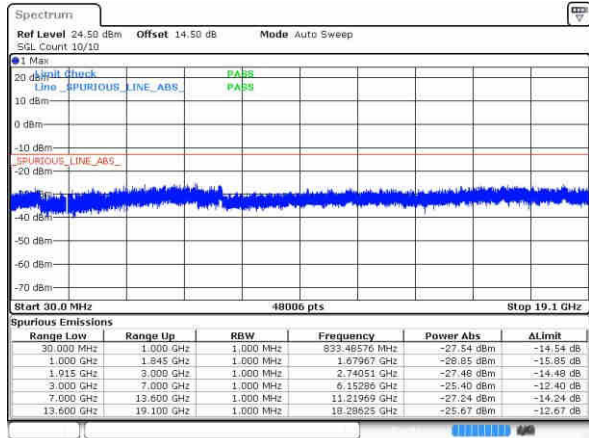
Lowest Channel



Date: 26 DEC 2017 09:40:17

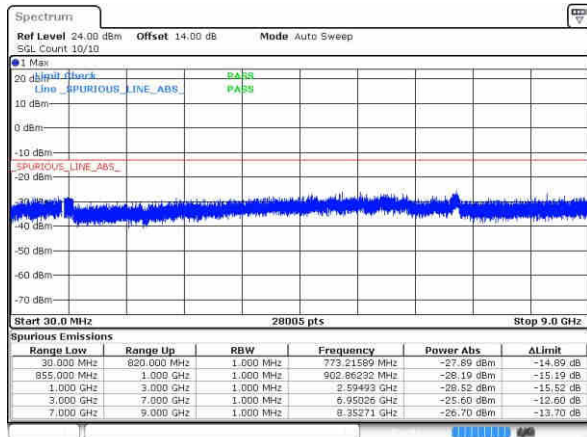
CDMA BC1 (1xRTT)

Lowest Channel



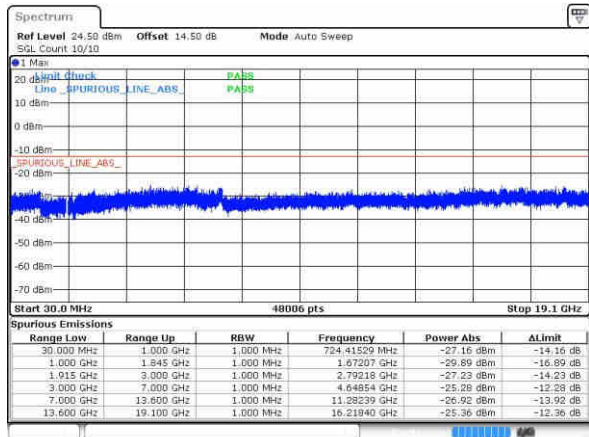
Date: 26 DEC 2017 10:34:46

Middle Channel



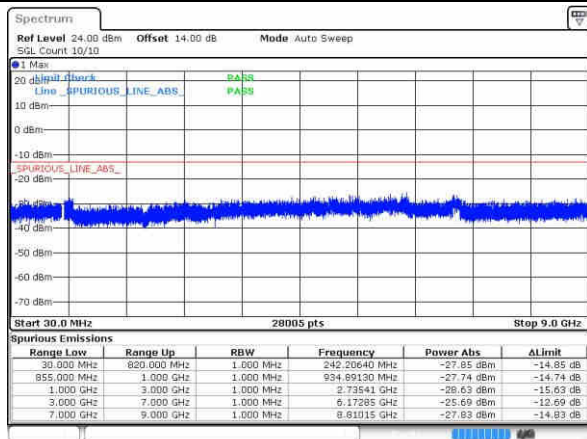
Date: 26 DEC 2017 09:41:51

Middle Channel



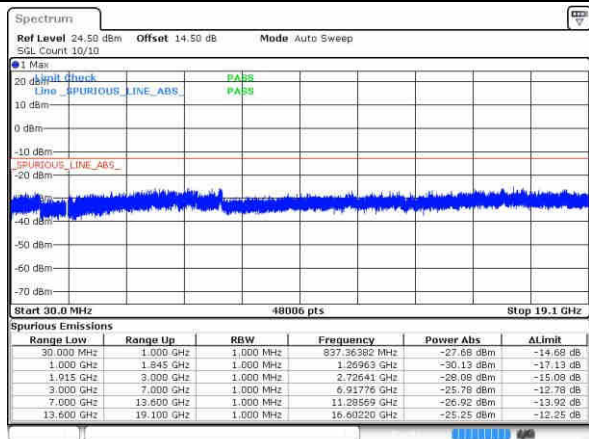
Date: 26 DEC 2017 10:42:04

Highest Channel



Date: 26 DEC 2017 09:43:22

Highest Channel



Date: 26 DEC 2017 10:45:25

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0094	0.0005	PASS
40	Normal Voltage	0.0078	0.0027	
30	Normal Voltage	0.0072	0.0020	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0029	0.0031	
0	Normal Voltage	0.0036	0.0097	
-10	Normal Voltage	0.0081	0.0172	
-20	Normal Voltage	0.0047	0.0042	
-30	Normal Voltage	0.0104	0.0071	
20	Maximum Voltage	0.0018	0.0016	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0002	0.0002	

Note: Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0028	0.0011	PASS
40	Normal Voltage	0.0007	0.0051	
30	Normal Voltage	0.0027	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0003	0.0020	
0	Normal Voltage	0.0036	0.0026	
-10	Normal Voltage	0.0009	0.0002	
-20	Normal Voltage	0.0027	0.0022	
-30	Normal Voltage	0.0021	0.0036	
20	Maximum Voltage	0.0003	0.0004	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0002	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 based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0120	PASS
40	Normal Voltage	0.0108	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0060	
-10	Normal Voltage	0.0096	
-20	Normal Voltage	0.0155	
-30	Normal Voltage	0.0084	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

Note: Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0106	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0053	
-30	Normal Voltage	0.0085	
20	Maximum Voltage	0.0101	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0074	

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 based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0078	PASS
40	Normal Voltage	0.0084	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0121	
0	Normal Voltage	0.0074	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0049	
-30	Normal Voltage	0.0033	
20	Maximum Voltage	0.0081	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0127	

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 based on the frequency deviation measured is small.



Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0202	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0077	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0028	
-20	Normal Voltage	0.0043	
-30	Normal Voltage	0.0213	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0065	

Note: Normal Voltage = 3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0126	PASS
40	Normal Voltage	0.0054	
30	Normal Voltage	0.0062	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0071	
0	Normal Voltage	0.0069	
-10	Normal Voltage	0.0120	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0090	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0082	

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 based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)									
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)
Low	1648.4	-58.09	-13	-45.09	-59.80	-62.56	2.76	9.38	H
	2472.6	-66.44	-13	-53.44	-72.50	-72.42	2.45	10.58	H
	3296.8	-66.10	-13	-53.10	-74.10	-71.95	4.58	12.58	H
	1648.4	-60.14	-13	-47.14	-61.98	-64.61	2.76	9.38	V
	2472.6	-69.21	-13	-56.21	-75.16	-75.19	2.45	10.58	V
	3296.8	-69.07	-13	-56.07	-77.10	-74.92	4.58	12.58	V
Middle	1672.8	-61.72	-13	-48.72	-63.43	-66.09	2.88	9.40	H
	2509.2	-67.28	-13	-54.28	-73.34	-73.23	2.5	10.60	H
	3345.6	-68.60	-13	-55.60	-76.60	-74.42	4.63	12.60	H
	1672.8	-61.68	-13	-48.68	-63.52	-66.05	2.88	9.40	V
	2509.2	-70.29	-13	-57.29	-76.24	-76.24	2.50	10.60	V
	3345.6	-68.97	-13	-55.97	-77.00	-74.79	4.63	12.60	V
High	1697.6	-55.08	-13	-42.08	-56.79	-59.43	2.92	9.42	H
	2546.4	-66.50	-13	-53.50	-72.56	-72.34	2.63	10.62	H
	3395.2	-64.98	-13	-51.98	-72.98	-70.71	4.74	12.62	H
	1697.6	-55.34	-13	-42.34	-57.18	-59.69	2.92	9.42	V
	2546.4	-67.97	-13	-54.97	-73.92	-73.81	2.63	10.62	V
	3395.2	-69.18	-13	-56.18	-77.21	-74.91	4.74	12.62	V

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



EDGE 850 (GSM)									
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)
Low	1648.4	-69.94	-13	-56.94	-71.65	-74.43	2.76	9.40	H
	2472.6	-70.70	-13	-57.70	-76.76	-76.70	2.45	10.60	H
	3296.8	-69.26	-13	-56.26	-77.26	-75.13	4.58	12.60	H
	1648.4	-70.45	-13	-57.45	-72.29	-74.94	2.76	9.40	V
	2472.6	-70.82	-13	-57.82	-76.77	-76.82	2.45	10.60	V
	3296.8	-69.23	-13	-56.23	-77.26	-75.10	4.58	12.60	V
Middle	1672.8	-71.63	-13	-58.63	-73.34	-76.00	2.88	9.40	H
	2509.2	-70.74	-13	-57.74	-76.80	-76.69	2.5	10.60	H
	3345.6	-69.04	-13	-56.04	-77.04	-74.86	4.63	12.60	H
	1672.8	-70.98	-13	-57.98	-72.82	-75.35	2.88	9.40	V
	2509.2	-70.99	-13	-57.99	-76.94	-76.94	2.50	10.60	V
	3345.6	-69.03	-13	-56.03	-77.06	-74.85	4.63	12.60	V
High	1697.6	-67.89	-13	-54.89	-69.60	-72.22	2.92	9.40	H
	2546.4	-70.76	-13	-57.76	-76.82	-76.58	2.63	10.60	H
	3395.2	-69.26	-13	-56.26	-77.26	-74.97	4.74	12.60	H
	1697.6	-67.53	-13	-54.53	-69.37	-71.86	2.92	9.40	V
	2546.4	-71.08	-13	-58.08	-77.03	-76.90	2.63	10.60	V
	3395.2	-69.34	-13	-56.34	-77.37	-75.05	4.74	12.60	V

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



GSM1900 (GSM)									
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)
Low	3700.4	-52.37	-13	-39.37	-65.99	-60.08	4.87	12.58	H
	5550.6	-51.91	-13	-38.91	-68.51	-57.87	7.12	13.08	H
	7400.8	-59.24	-13	-46.24	-79.22	-62.94	7.59	11.29	H
	3700.4	-47.31	-13	-34.31	-61.64	-55.02	4.87	12.58	V
	5550.6	-52.86	-13	-39.86	-69.39	-58.82	7.12	13.08	V
	7400.8	-59.45	-13	-46.45	-79.09	-63.15	7.59	11.29	V
Middle	3760	-52.28	-13	-39.28	-65.90	-59.88	5.00	12.60	H
	5640	-49.59	-13	-36.59	-66.19	-55.39	7.30	13.10	H
	7520	-58.97	-13	-45.97	-78.95	-62.54	7.73	11.30	H
	3760	-40.98	-13	-27.98	-55.89	-48.58	5.00	12.60	V
	5640	-40.90	-13	-27.90	-57.43	-46.70	7.30	13.10	V
	7520	-58.66	-13	-45.66	-78.3	-62.23	7.73	11.30	V
High	3819.6	-49.64	-13	-36.64	-63.26	-56.93	5.36	12.65	H
	5729.4	-47.79	-13	-34.79	-64.39	-53.47	7.52	13.20	H
	7639.2	-58.80	-13	-45.80	-78.78	-62.31	7.85	11.36	H
	3819.6	-36.77	-13	-23.77	-52.67	-44.06	5.36	12.65	V
	5729.4	-35.00	-13	-22.00	-52.65	-40.68	7.52	13.20	V
	7639.2	-54.52	-13	-41.52	-74.16	-58.03	7.85	11.36	V

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



EDGE1900 (GSM)									
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)
Low	3700.4	-59.26	-13	-46.26	-72.88	-66.99	4.87	12.60	H
	5550.6	-60.02	-13	-47.02	-76.62	-66.00	7.12	13.10	H
	7400.8	-59.54	-13	-46.54	-79.52	-63.25	7.59	11.30	H
	3700.4	-44.84	-13	-31.84	-59.17	-52.57	4.87	12.6	V
	5550.6	-48.22	-13	-35.22	-64.75	-54.20	7.12	13.1	V
	7400.8	-59.78	-13	-46.78	-79.42	-63.49	7.59	11.3	V
Middle	3760	-60.92	-13	-47.92	-74.54	-68.52	5	12.60	H
	5640	-62.28	-13	-49.28	-78.88	-68.08	7.3	13.10	H
	7520	-59.18	-13	-46.18	-79.16	-62.75	7.73	11.30	H
	3760	-58.43	-13	-45.43	-72.76	-66.03	5	12.6	V
	5640	-62.44	-13	-49.44	-78.97	-68.24	7.3	13.1	V
	7520	-59.54	-13	-46.54	-79.18	-63.11	7.73	11.3	V
High	3819.6	-59.76	-13	-46.76	-73.38	-67.00	5.36	12.60	H
	5729.4	-60.83	-13	-47.83	-77.43	-66.41	7.52	13.10	H
	7639.2	-59.11	-13	-46.11	-79.09	-62.56	7.85	11.30	H
	3819.6	-53.11	-13	-40.11	-67.44	-60.35	5.36	12.6	V
	5729.4	-61.57	-13	-48.57	-78.1	-67.15	7.52	13.1	V
	7639.2	-59.27	-13	-46.27	-78.91	-62.72	7.85	11.3	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)
Low	1652.8	-72.55	-13	-59.55	-74.26	-77.04	2.76	9.40	H
	2479.2	-70.65	-13	-57.65	-76.71	-76.65	2.45	10.60	H
	3305.6	-69.22	-13	-56.22	-77.22	-75.09	4.58	12.60	H
	1652.8	-72.39	-13	-59.39	-74.23	-76.88	2.76	9.40	V
	2479.2	-70.87	-13	-57.87	-76.82	-76.87	2.45	10.60	V
	3305.6	-69.28	-13	-56.28	-77.31	-75.15	4.58	12.60	V
Middle	1672.8	-72.15	-13	-59.15	-73.86	-76.52	2.88	9.40	H
	2509.2	-70.84	-13	-57.84	-76.90	-76.79	2.5	10.60	H
	3345.6	-69.05	-13	-56.05	-77.05	-74.87	4.63	12.60	H
	1672.8	-72.23	-13	-59.23	-74.07	-76.60	2.88	9.40	V
	2509.2	-71.10	-13	-58.10	-77.05	-77.05	2.50	10.60	V
	3345.6	-68.95	-13	-55.95	-76.98	-74.77	4.63	12.60	V
High	1693.2	-72.81	-13	-59.81	-74.52	-77.14	2.92	9.40	H
	2539.8	-70.88	-13	-57.88	-76.94	-76.70	2.63	10.60	H
	3386.4	-69.25	-13	-56.25	-77.25	-74.96	4.74	12.60	H
	1693.2	-72.65	-13	-59.65	-74.49	-76.98	2.92	9.40	V
	2539.8	-71.14	-13	-58.14	-77.09	-76.96	2.63	10.60	V
	3386.4	-69.22	-13	-56.22	-77.25	-74.93	4.74	12.60	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)
Low	3704.8	-58.52	-13	-45.52	-72.14	-66.25	4.87	12.60	H
	5557.2	-56.97	-13	-43.97	-73.57	-62.95	7.12	13.10	H
	7409.6	-59.24	-13	-46.24	-79.22	-62.95	7.59	11.30	H
	3704.8	-58.59	-13	-45.59	-72.92	-66.32	4.87	12.6	V
	5557.2	-60.72	-13	-47.72	-77.25	-66.70	7.12	13.1	V
	7409.6	-59.58	-13	-46.58	-79.22	-63.29	7.59	11.3	V
Middle	3760	-59.45	-13	-46.45	-73.07	-67.05	5	12.60	H
	5640	-57.64	-13	-44.64	-74.24	-63.44	7.3	13.10	H
	7520	-58.97	-13	-45.97	-78.95	-62.54	7.73	11.30	H
	3760	-53.63	-13	-40.63	-67.96	-61.23	5	12.6	V
	5640	-58.03	-13	-45.03	-74.56	-63.83	7.3	13.1	V
	7520	-59.57	-13	-46.57	-79.21	-63.14	7.73	11.3	V
High	3815.2	-63.38	-13	-50.38	-77.00	-70.62	5.36	12.60	H
	5722.8	-62.76	-13	-49.76	-79.36	-68.34	7.52	13.10	H
	7630.4	-59.20	-13	-46.20	-79.18	-62.65	7.85	11.30	H
	3815.2	-62.67	-13	-49.67	-77	-69.91	5.36	12.6	V
	5722.8	-62.58	-13	-49.58	-79.11	-68.16	7.52	13.1	V
	7630.4	-59.38	-13	-46.38	-79.02	-62.83	7.85	11.3	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)
Low	3424.8	-53.02	-13	-40.02	-66.72	-61.02	4.58	12.58	H
	5137.2	-58.63	-13	-45.63	-76.56	-65.09	6.21	12.67	H
	6849.6	-59.12	-13	-46.12	-78.74	-63.91	8.16	12.95	H
	3424.8	-54.83	-13	-41.83	-66.24	-62.83	4.58	12.58	V
	5137.2	-62.70	-13	-49.70	-76.31	-69.16	6.21	12.67	V
	6849.6	-59.87	-13	-46.87	-78.99	-64.66	8.16	12.95	V
Middle	3465.2	-55.86	-13	-42.86	-69.56	-63.83	4.63	12.60	H
	5197.8	-58.83	-13	-45.83	-76.76	-65.28	6.25	12.70	H
	6930.4	-59.54	-13	-46.54	-79.16	-64.31	8.23	13.00	H
	3465.2	-62.25	-13	-49.25	-73.66	-70.22	4.63	12.6	V
	5197.8	-62.28	-13	-49.28	-75.89	-68.73	6.25	12.7	V
	6930.4	-60.12	-13	-47.12	-79.24	-64.89	8.23	13	V
High	3505.2	-46.60	-13	-33.60	-60.30	-54.60	4.66	12.66	H
	5257.8	-60.17	-13	-47.17	-78.10	-66.61	6.31	12.75	H
	7010.4	-57.35	-13	-44.35	-76.97	-62.12	8.35	13.12	H
	3505.2	-60.61	-13	-47.61	-72.02	-68.61	4.66	12.66	V
	5257.8	-65.56	-13	-52.56	-79.17	-72.00	6.31	12.75	V
	7010.4	-59.75	-13	-46.75	-78.87	-64.52	8.35	13.12	V

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



CDMA BC0 (1xRTT)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Low	1652.8	-73.47	-13	-60.47	-75.18	-77.96	2.76	9.40	H
	2479.2	-70.88	-13	-57.88	-76.94	-76.88	2.45	10.60	H
	3305.6	-69.75	-13	-56.75	-77.75	-75.62	4.58	12.60	H
	1652.8	-73.32	-13	-60.32	-75.16	-77.81	2.76	9.40	V
	2479.2	-71.00	-13	-58.00	-76.95	-77.00	2.45	10.60	V
	3305.6	-69.60	-13	-56.60	-77.63	-75.47	4.58	12.60	V
Middle	1673.04	-72.51	-13	-59.51	-74.22	-76.88	2.88	9.40	H
	2509.56	-70.45	-13	-57.45	-76.51	-76.40	2.5	10.60	H
	3346.08	-69.03	-13	-56.03	-77.03	-74.85	4.63	12.60	H
	1673.04	-72.52	-13	-59.52	-74.36	-76.89	2.88	9.40	V
	2509.56	-70.51	-13	-57.51	-76.46	-76.46	2.50	10.60	V
	3346.08	-68.90	-13	-55.90	-76.93	-74.72	4.63	12.60	V
High	1696.62	-72.74	-13	-59.74	-74.45	-77.07	2.92	9.40	H
	2544.93	-70.49	-13	-57.49	-76.55	-76.31	2.63	10.60	H
	3393.24	-69.14	-13	-56.14	-77.14	-74.85	4.74	12.60	H
	1696.62	-72.75	-13	-59.75	-74.59	-77.08	2.92	9.40	V
	2544.93	-70.68	-13	-57.68	-76.63	-76.50	2.63	10.60	V
	3393.24	-69.08	-13	-56.08	-77.11	-74.79	4.74	12.60	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)
Low	3702.5	-63.12	-13	-50.12	-76.74	-70.85	4.87	12.60	H
	5553.75	-62.39	-13	-49.39	-78.99	-68.37	7.12	13.10	H
	7405	-59.26	-13	-46.26	-79.24	-62.97	7.59	11.30	H
	3702.5	-62.61	-13	-49.61	-76.94	-70.34	4.87	12.6	V
	5553.75	-62.34	-13	-49.34	-78.87	-68.32	7.12	13.1	V
	7405	-59.79	-13	-46.79	-79.43	-63.50	7.59	11.3	V
Middle	3760	-63.36	-13	-50.36	-76.98	-70.96	5	12.60	H
	5640	-62.04	-13	-49.04	-78.64	-67.84	7.3	13.10	H
	7520	-59.37	-13	-46.37	-79.35	-62.94	7.73	11.30	H
	3760	-62.37	-13	-49.37	-76.7	-69.97	5	12.6	V
	5640	-62.61	-13	-49.61	-79.14	-68.41	7.3	13.1	V
	7520	-59.64	-13	-46.64	-79.28	-63.21	7.73	11.3	V
High	3817.5	-63.60	-13	-50.60	-77.22	-70.84	5.36	12.60	H
	5726.25	-62.43	-13	-49.43	-79.03	-68.01	7.52	13.10	H
	7635	-59.17	-13	-46.17	-79.15	-62.62	7.85	11.30	H
	3817.5	-62.75	-13	-49.75	-77.08	-69.99	5.36	12.6	V
	5726.25	-62.66	-13	-49.66	-79.19	-68.24	7.52	13.1	V
	7635	-59.55	-13	-46.55	-79.19	-63.00	7.85	11.3	V

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