



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : MI  
**MODEL NAME** : M1903C3GG  
**FCC ID** : 2AFZZ-RMSC3GG  
**STANDARD** : FCC 47 CFR Part 2, 22(H), 24(E)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Oct. 18, 2018 and completely tested on Oct. 29, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Approved by: James Huang / Manager



**Sportun International (Kunshan) Inc.**  
No. 1098, Pengxi North Road, Kunshan Economic Development Zone,  
Jiangsu Province 215335, China



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## REVISION HISTORY



## 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)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 30.37 dB at 2510.000 MHz



## 1 General Description

### 1.1 Applicant

**Xiaomi Communications Co., Ltd.**

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

### 1.2 Manufacturer

**Xiaomi Communications Co., Ltd.**

The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

### 1.3 Product Feature of Equipment Under Test

Product Feature	
<b>Equipment</b>	Mobile Phone
<b>Brand Name</b>	MI
<b>Model Name</b>	M1903C3GG
<b>FCC ID</b>	2AFZZ-RMSC3GG
<b>EUT supports Radios application</b>	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+(16 QAM uplink is not supported)/LTE WLAN 2.4GHz 11b/g/n H20 Bluetooth BR/EDR/LE
<b>IMEI Code</b>	Conducted: 864750040001807/864750040001815 Radiation: N/A
<b>HW Version</b>	P2
<b>SW Version</b>	OPM1.171019.026 V10
<b>EUT Stage</b>	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.



## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
<b>Tx Frequency</b>	<b>GSM/GPRS/EDGE:</b> 850: 824.2 MHz ~ 848.8 MHz 1900: 1850.2 MHz ~ 1909.8MHz <b>WCDMA:</b> Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz
<b>Rx Frequency</b>	<b>GSM/GPRS/EDGE:</b> 850: 869.2 MHz ~ 893.8 MHz 1900: 1930.2 MHz ~ 1989.8 MHz <b>WCDMA:</b> Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz
<b>Maximum Output Power to Antenna</b>	<b>GSM/GPRS/EDGE:</b> 850: 33.32 dBm 1900: 29.88 dBm <b>WCDMA:</b> Band V: 23.70 dBm Band II: 22.91 dBm
<b>Antenna Type</b>	LOOP Antenna
<b>Antenna Gain</b>	Cellular Band: -1.00 dBi PCS Band: 0.90 dBi
<b>Type of Modulation</b>	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK (Uplink) HSDPA/DC-HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) HSPA+ : 16QAM (uplink is not supported) DC-HSDPA : 64QAM

## 1.5 Modification of EUT

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



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

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22H	GSM850 GSM	GMSK	1.0399	0.0574 ppm	242KGXW
Part 22H	GSM850 EDGE class 8	8PSK	0.1879	0.0538 ppm	243KG7W
Part 22H	WCDMA Band V RMC 12.2Kbps	BPSK	0.1135	0.0442 ppm	4M13F9W
Part 24E	GSM1900 GSM	GMSK	1.1967	0.0218 ppm	246KGXW
Part 24E	GSM1900 EDGE class 8	8PSK	0.4667	0.0255 ppm	239KG7W
Part 24E	WCDMA Band II RMC 12.2Kbps	BPSK	0.2404	0.0239 ppm	4M13F9W

## 1.7 Testing Location

Sportun International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sportun International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	Sportun Site No.	FCC designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH05-KS	CN5013	630927



## 1.8 Applicable Standards

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

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

**Remark:**

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



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

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

For radiated measurement, we pre-scan x,y,z axis to determine the attitude that maximizes the emissions according to ANSI C 63.26 Section 5.5.2.5 and Figure 5—EUT configuration positions.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

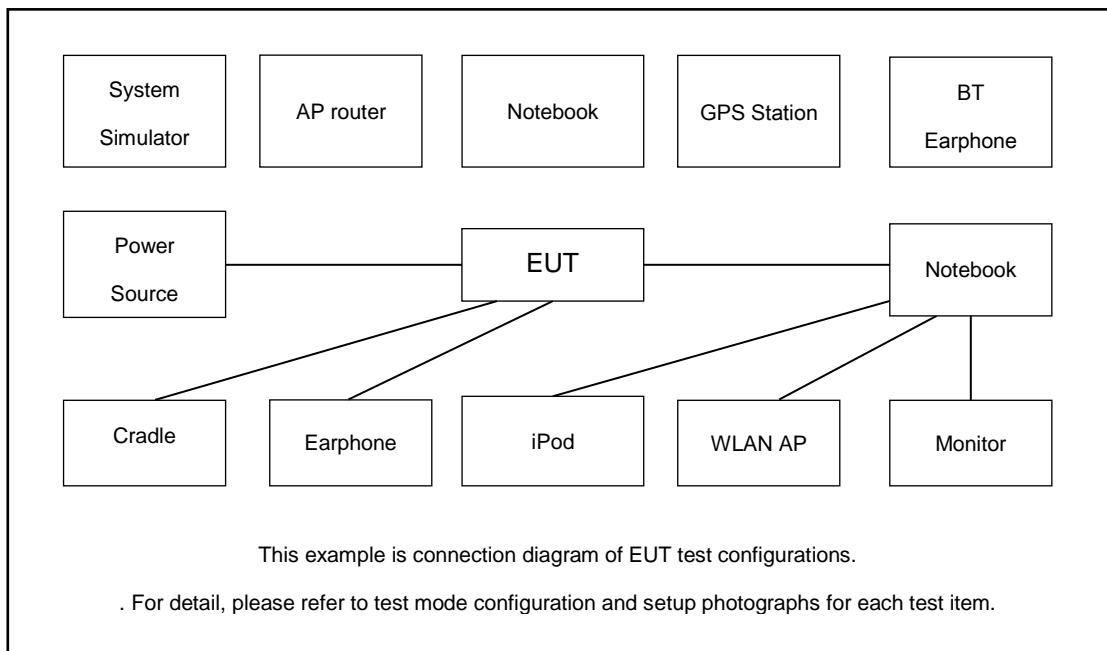
All modes and data rates and positions were investigated.

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

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM 850	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
	■ GSM Link ■ EDGE class 8 Link	■ GSM Link ■ EDGE class 8 Link
GSM 1900	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link



## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

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

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

The following shows an offset computation example with RF cable loss 4.3 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.3 + 10 = 14.3 \text{ (dB)}\end{aligned}$$



## 2.5 Frequency List of Low/Middle/High Channels

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

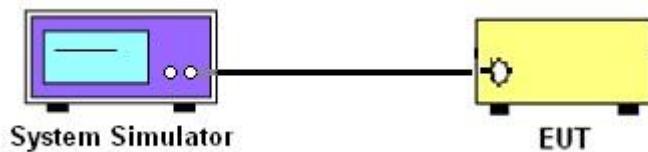
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

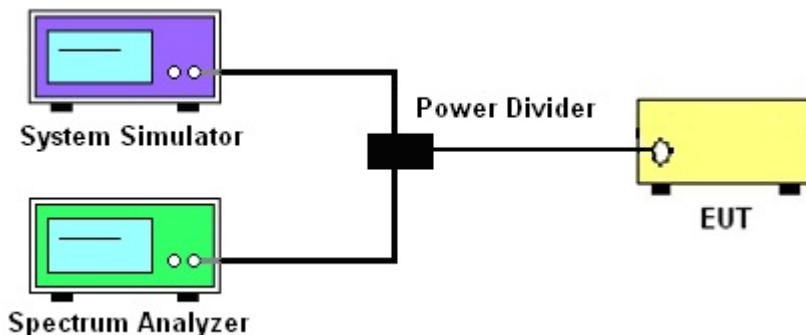
See list of measuring instruments of this test report.

#### 3.2 Test Setup

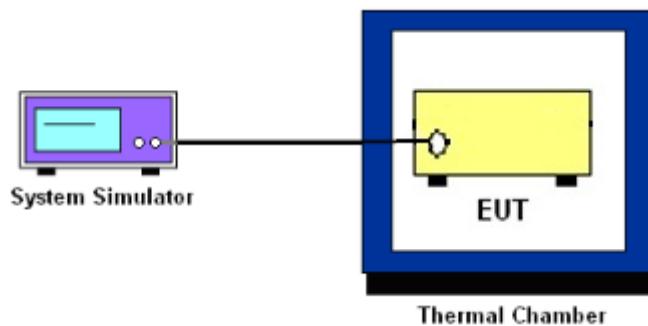
##### 3.2.1 Conducted Output Power



##### 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.

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

According to KDB 412172 D01 Power Approach,

$$\text{EIRP} = P_T + G_T - L_C, \text{ ERP} = \text{EIRP} - 2.15, \text{ where}$$

$P_T$  = 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 testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

### 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 ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



## 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 ANSI C63.26 Section 5.4
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 ANSI C63.26 section 5.7
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 10<sup>th</sup> harmonic.

### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
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 ANSI C63.26 section 5.6.4
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  $-30^\circ\text{C}$  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  $10^\circ\text{C}$  step up to  $50^\circ\text{C}$ . 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 ANSI C63.26 section 5.6.5
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 for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

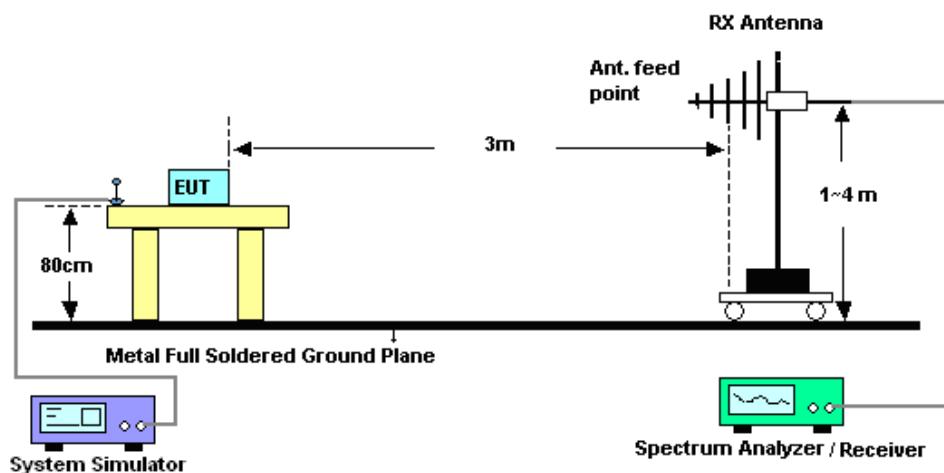
## 4 Radiated Test Items

### 4.1 Measuring Instruments

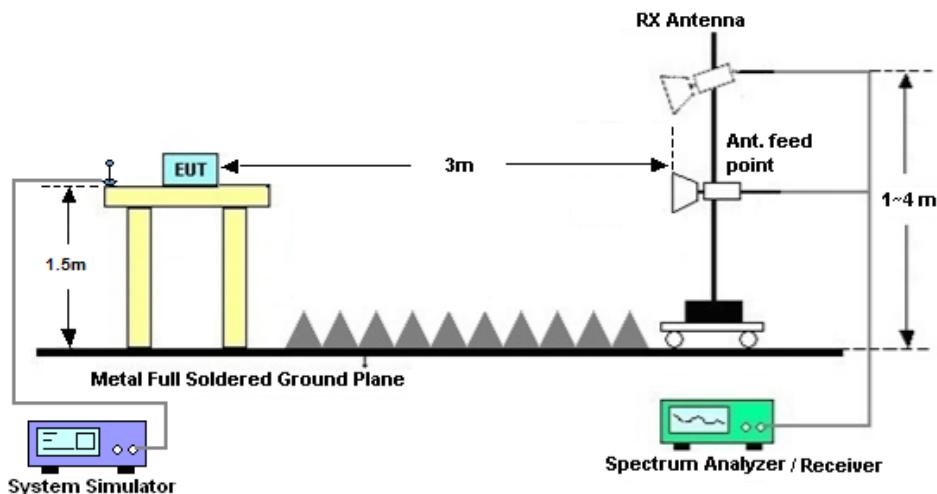
See list of measuring instruments of this test report.

### 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 ANSI C63.26 Section 5.5
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 (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (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	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	Oct. 28, 2018-Oct. 29, 2018	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jun. 27, 2018	Oct. 28, 2018-Oct. 29, 2018	Jun. 26, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Apr. 17, 2018	Oct. 28, 2018-Oct. 29, 2018	Apr. 16, 2019	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 12, 2018	Oct. 28, 2018-Oct. 29, 2018	Jun. 11, 2019	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 21, 2018	Oct. 28, 2018-Oct. 29, 2018	Jan. 20, 2019	Radiation (03CH05-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Oct. 28, 2018-Oct. 29, 2018	Feb. 06, 2019	Radiation (03CH05-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 17, 2018	Oct. 28, 2018-Oct. 29, 2018	Apr. 16, 2019	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Oct. 28, 2018-Oct. 29, 2018	Apr. 16, 2019	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Apr. 18, 2018	Oct. 28, 2018-Oct. 29, 2018	Apr. 17, 2019	Radiation (03CH05-KS)
Amplifier	MITEQ	TTA1840-35 -HG	1887435	18~40GHz	Feb. 08, 2018	Oct. 28, 2018-Oct. 29, 2018	Feb. 07, 2019	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 28, 2018-Oct. 29, 2018	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 28, 2018-Oct. 29, 2018	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 28, 2018-Oct. 29, 2018	NCR	Radiation (03CH05-KS)

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% ( $U = 2U_{\text{c}}(y)$ )	2.5 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_{\text{c}}(y)$ )	2.0 dB
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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	33.32	33.20	33.30	29.74	29.88	29.84
GPRS class 8	33.31	33.18	33.29	29.73	29.87	29.83
GPRS class 10	31.04	31.34	31.16	28.47	28.29	28.50
GPRS class 11	29.40	29.48	29.45	26.11	26.37	26.41
GPRS class 12	28.35	28.38	28.45	25.45	25.40	25.49
EGPRS class 8	25.79	25.77	25.89	25.76	25.75	25.79
EGPRS class 10	24.70	24.72	24.83	24.67	24.60	24.77
EGPRS class 11	22.55	22.60	22.71	22.43	22.46	22.45
EGPRS class 12	22.20	22.15	22.35	22.20	22.21	22.43

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
AMR 12.2K	23.48	23.68	23.52	22.82	22.86	22.90
RMC 12.2K	23.49	23.70	23.53	22.84	22.88	22.91
HSDPA Subtest-1	22.36	22.57	22.40	21.84	21.93	21.92
HSDPA Subtest-2	22.37	22.57	22.40	21.82	21.94	21.92
HSDPA Subtest-3	22.36	22.48	22.39	21.82	21.93	21.91
HSDPA Subtest-4	22.47	22.47	22.39	21.91	21.93	21.90
DC-HSDPA Subtest-1	22.30	22.46	22.29	21.68	21.76	21.80
DC-HSDPA Subtest-2	22.29	22.45	22.27	21.70	21.75	21.78
DC-HSDPA Subtest-3	22.15	22.39	22.18	21.59	21.65	21.72
DC-HSDPA Subtest-4	22.14	22.38	22.20	21.62	21.68	21.70
HSUPA Subtest-1	22.20	22.16	22.39	21.23	21.76	21.75
HSUPA Subtest-2	20.96	21.32	20.85	20.82	20.99	20.98
HSUPA Subtest-3	21.09	21.18	21.47	20.69	20.59	20.57
HSUPA Subtest-4	21.53	21.59	22.02	20.90	20.86	20.57
HSUPA Subtest-5	22.30	22.50	22.60	21.80	21.90	21.90

**ERP/EIRP**

GSM850 ( $G_T - L_C = -1.0 \text{ dBi}$ )			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
Conducted Power (dBm)	33.32	33.20	33.30
Conducted Power (Watts)	2.1478	2.0893	2.1380
ERP(dBm)	30.17	30.05	30.15
ERP(Watts)	1.0399	1.0116	1.0351

GSM1900 ( $G_T - L_C = 0.9 \text{ dBi}$ )			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
Conducted Power (dBm)	29.74	29.88	29.84
Conducted Power (Watts)	0.9419	0.9727	0.9638
EIRP(dBm)	30.64	30.78	30.74
EIRP(Watts)	1.1588	1.1967	1.1858



EDGE850 ( $G_T - L_C = -1.0 \text{ dBi}$ )			
Channel	128	189	251
	(Low)	(Mid)	(High)
Frequency (MHz)	824.2	836.4	848.8
	25.79	25.77	25.89
Conducted Power (dBm)	0.3793	0.3776	0.3882
EIRP(dBm)	22.64	22.62	22.74
EIRP(Watts)	0.1837	0.1828	0.1879

EDGE1900 ( $G_T - L_C = 0.9 \text{ dBi}$ )			
Channel	512	661	810
	(Low)	(Mid)	(High)
Frequency (MHz)	1850.2	1880	1909.8
	25.76	25.75	25.79
Conducted Power (dBm)	0.3767	0.3758	0.3793
EIRP(dBm)	26.66	26.65	26.69
EIRP(Watts)	0.4634	0.4624	0.4667



WCDMA Band V ( $G_T - L_C = -1.0 \text{ dBi}$ )			
Channel	4132	4182	4233
	(Low)	(Mid)	(High)
Frequency (MHz)	826.4	836.4	846.6
Conducted Power (dBm)	23.49	23.70	23.53
Conducted Power (Watts)	0.2234	0.2344	0.2254
ERP(dBm)	20.34	20.55	20.38
ERP(Watts)	0.1081	0.1135	0.1091

WCDMA Band II ( $G_T - L_C = 0.9 \text{ dBi}$ )			
Channel	9262	9400	9538
	(Low)	(Mid)	(High)
Frequency (MHz)	1852.4	1880	1907.6
Conducted Power (dBm)	22.84	22.88	22.91
Conducted Power (Watts)	0.1923	0.1941	0.1954
EIRP(dBm)	23.74	23.78	23.81
EIRP(Watts)	0.2366	0.2388	0.2404

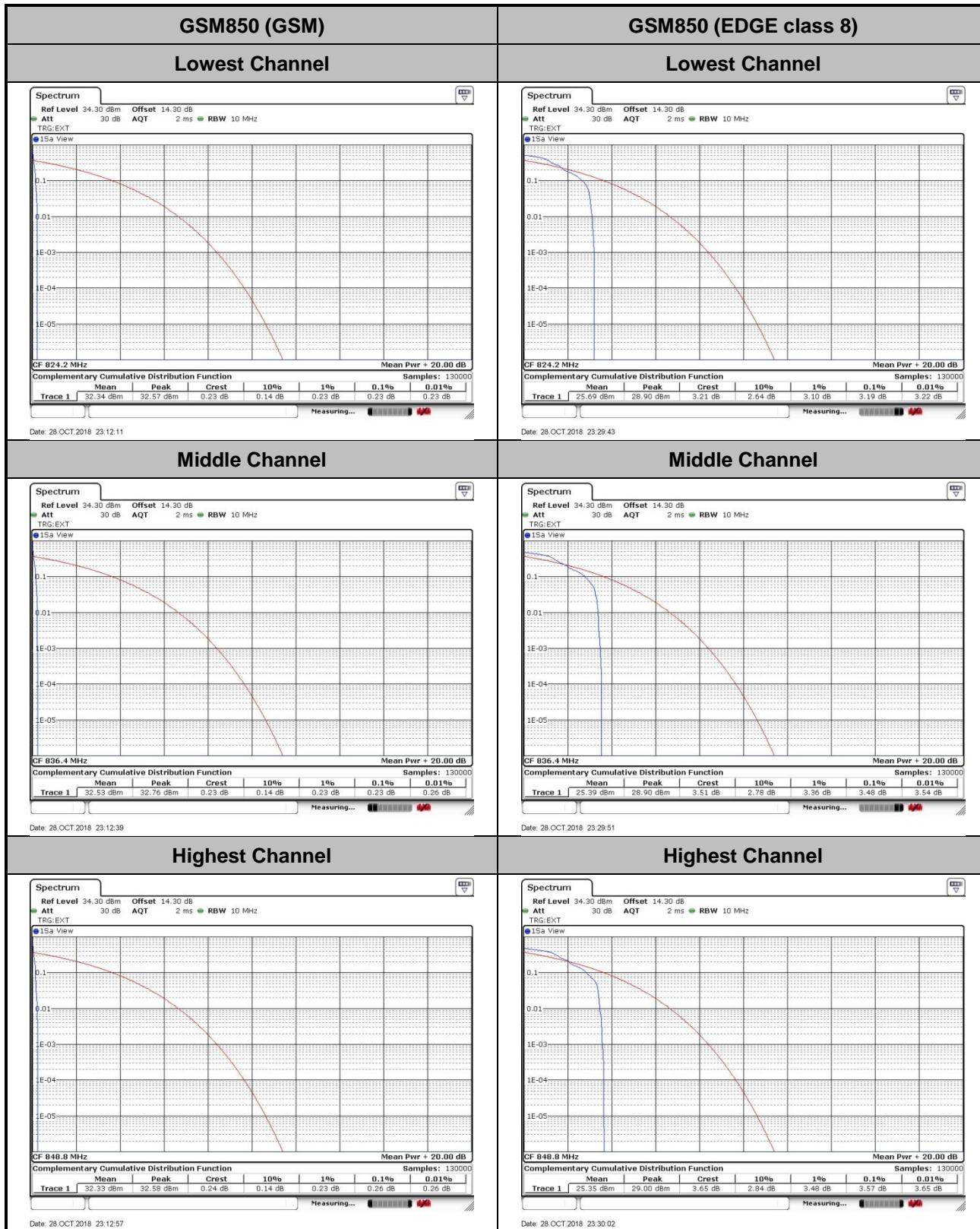


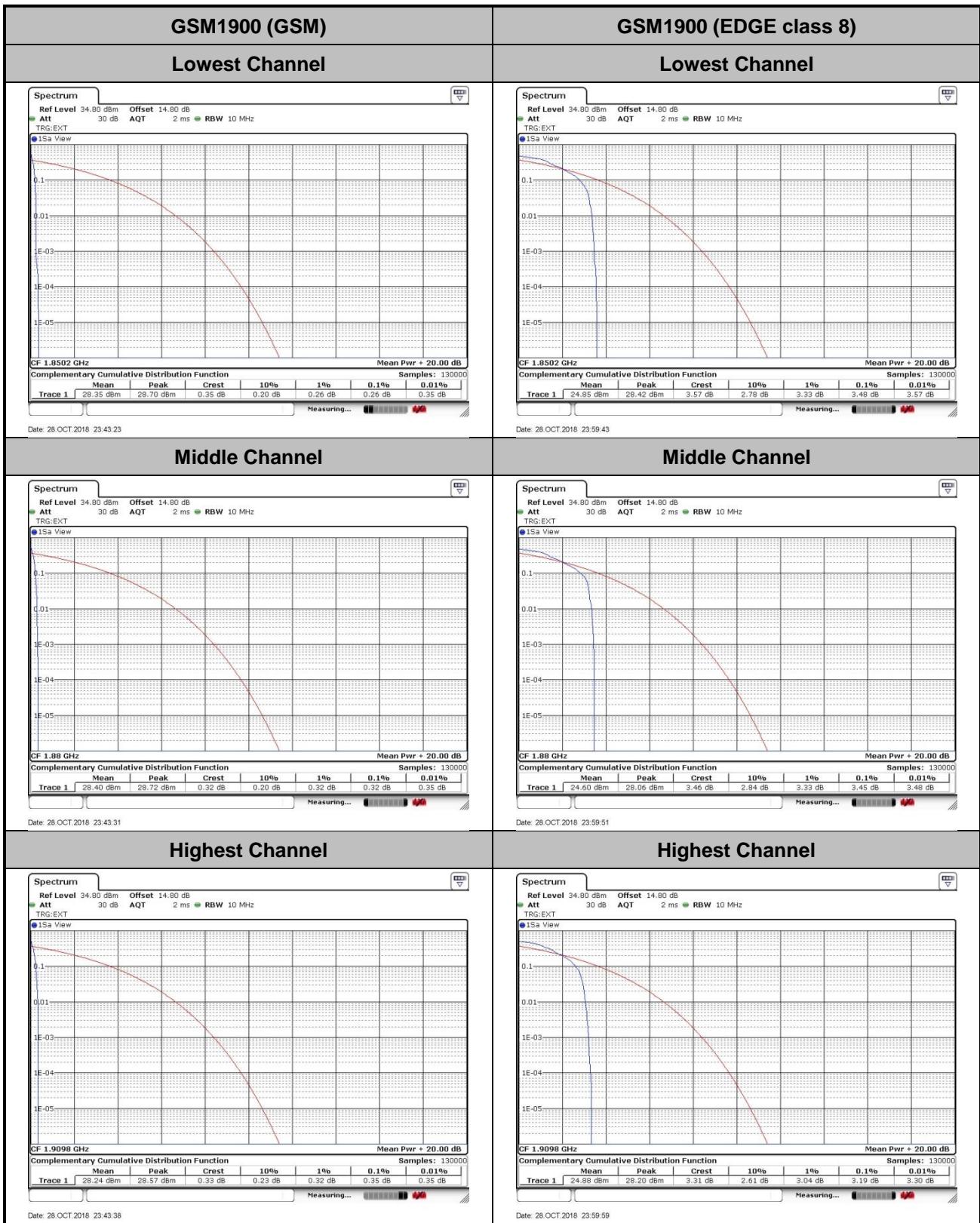
## Peak-to-Average Ratio

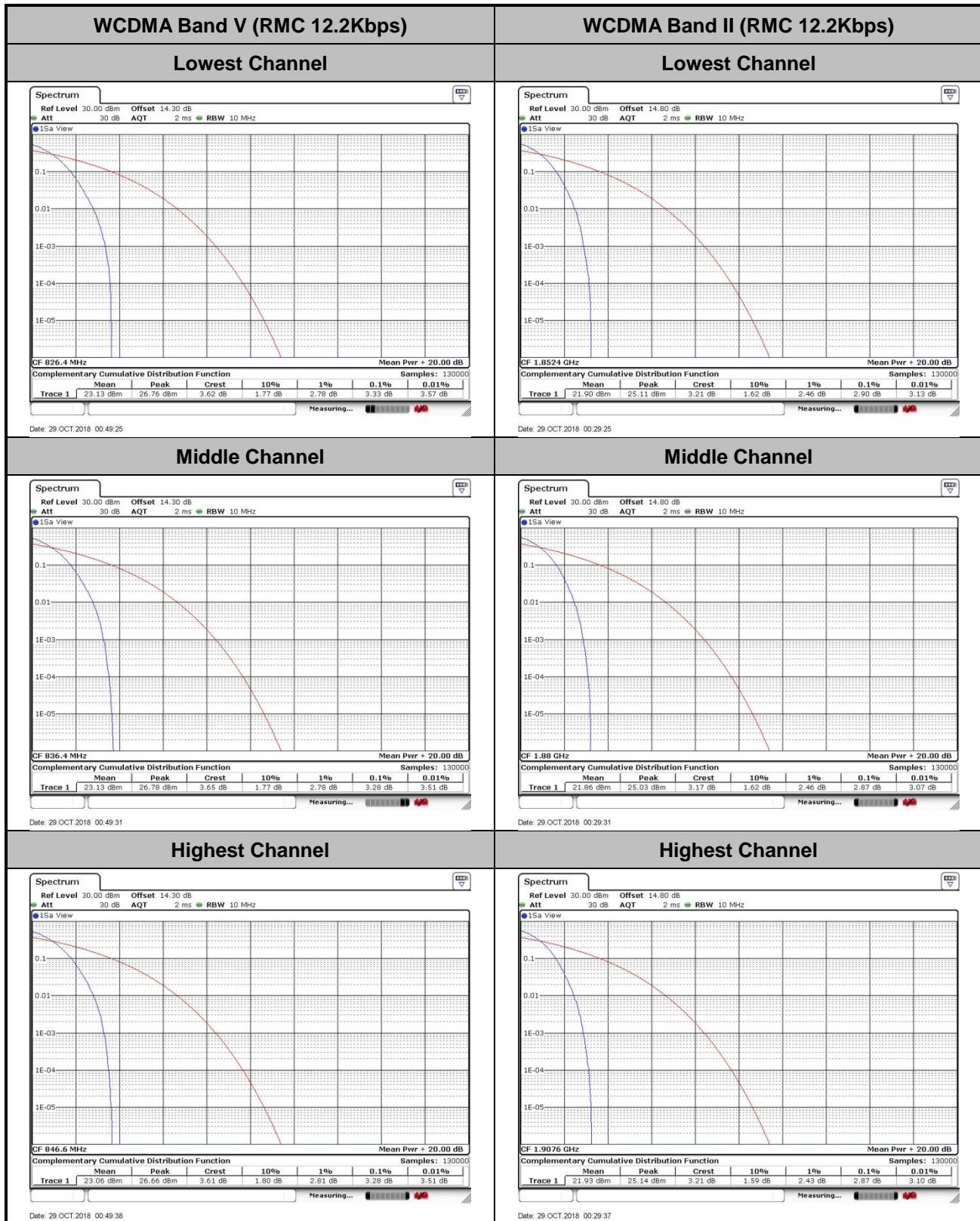
Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.23	3.19	PASS
Middle CH	0.23	3.48	
Highest CH	0.26	3.57	

Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.26	3.48	PASS
Middle CH	0.32	3.45	
Highest CH	0.35	3.19	

Mode	WCDMA Band V(dB)	WCDMA Band II(dB)	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.33	2.90	PASS
Middle CH	3.28	2.87	
Highest CH	3.28	2.87	





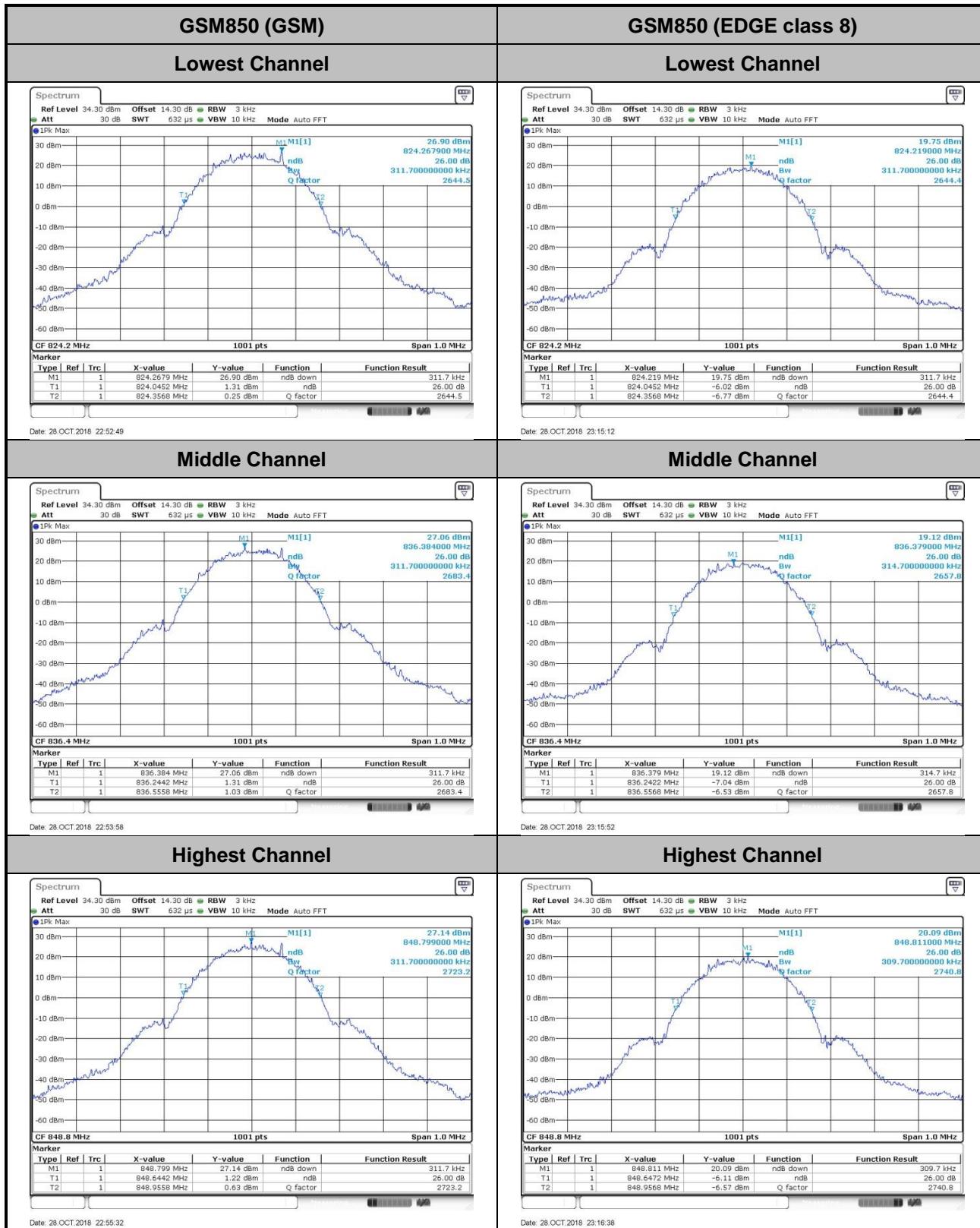


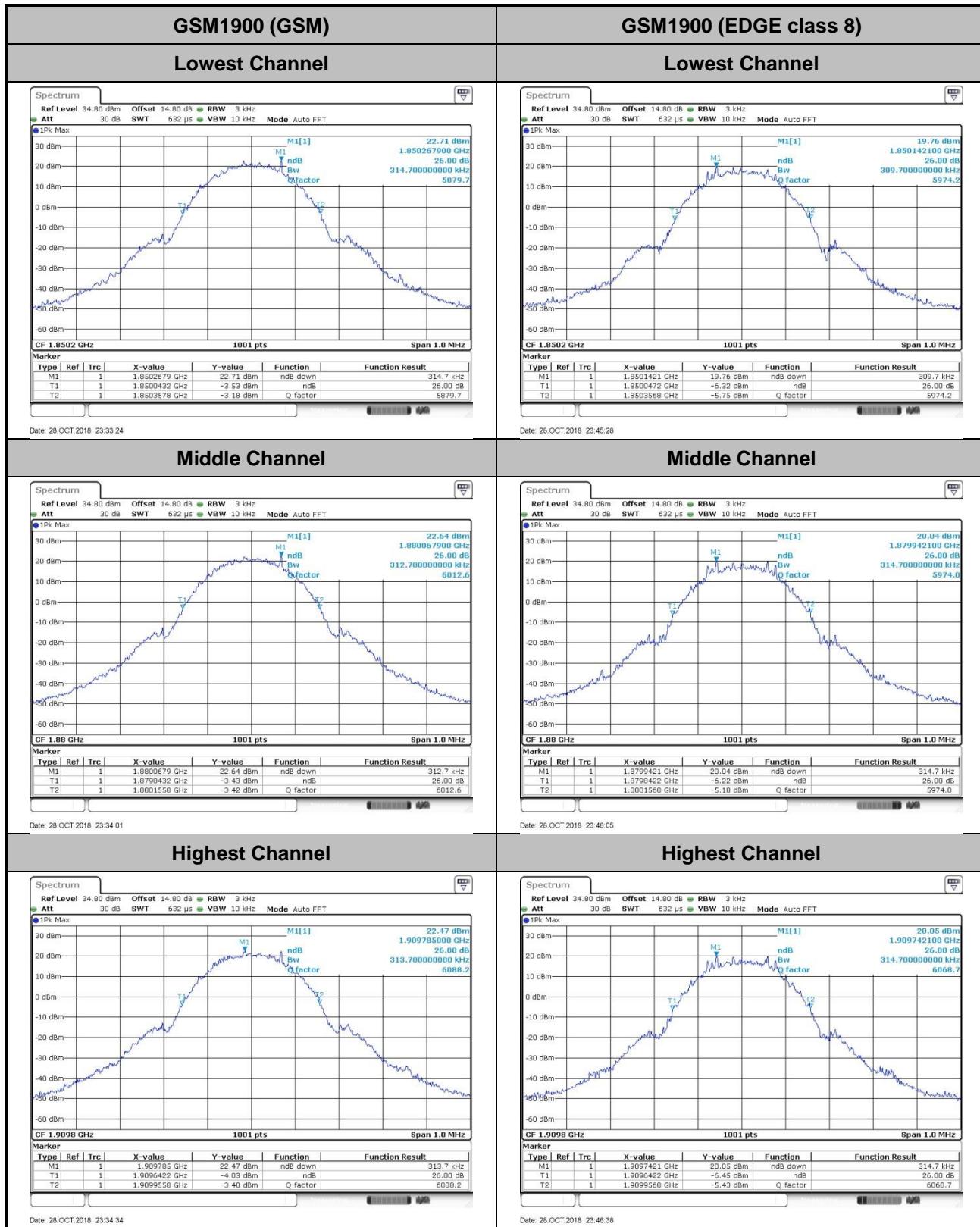
**26dB Bandwidth**

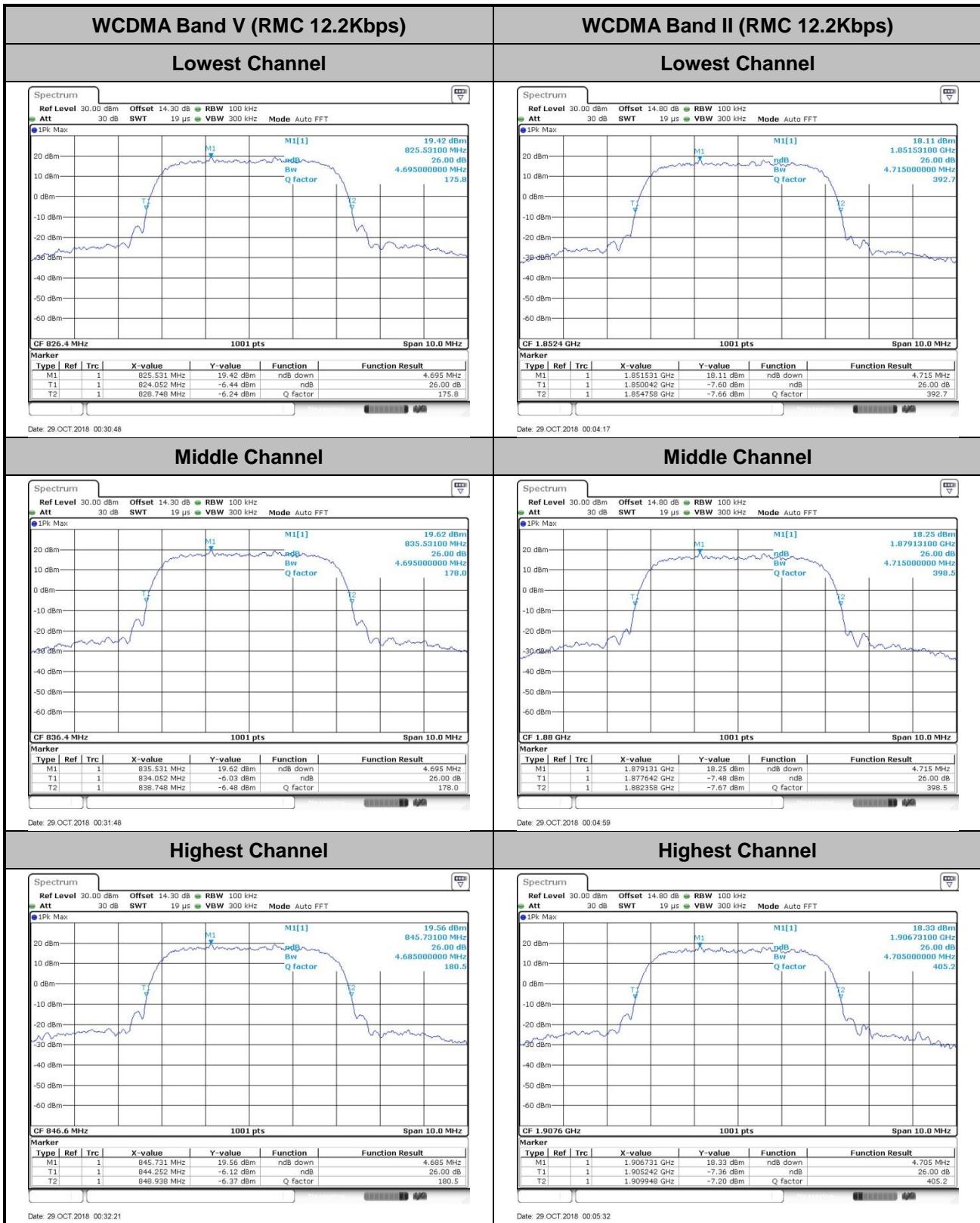
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.312	0.312
Middle CH	0.312	0.315
Highest CH	0.312	0.310

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.315	0.310
Middle CH	0.313	0.315
Highest CH	0.314	0.315

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.695	4.715
Middle CH	4.695	4.715
Highest CH	4.685	4.705







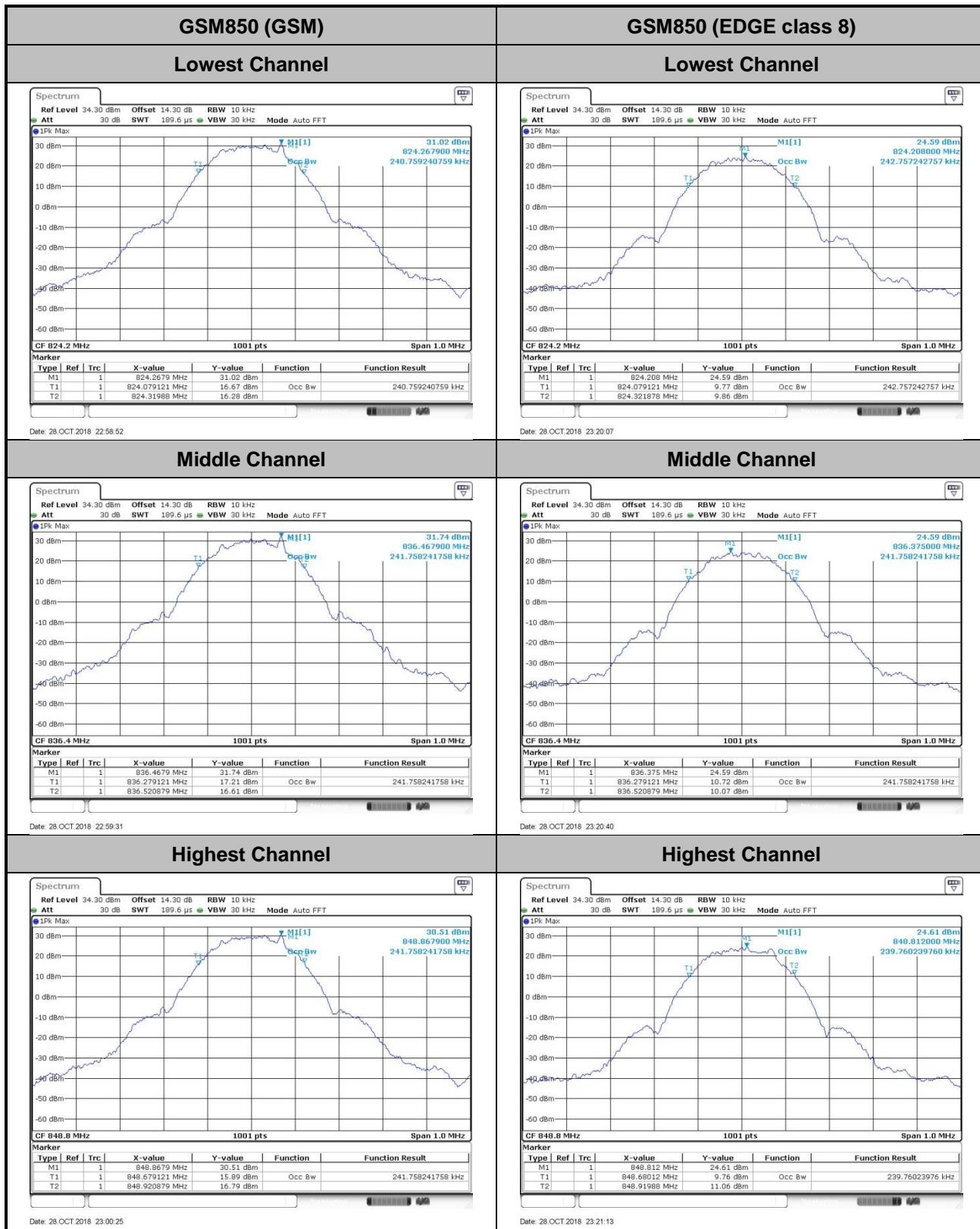


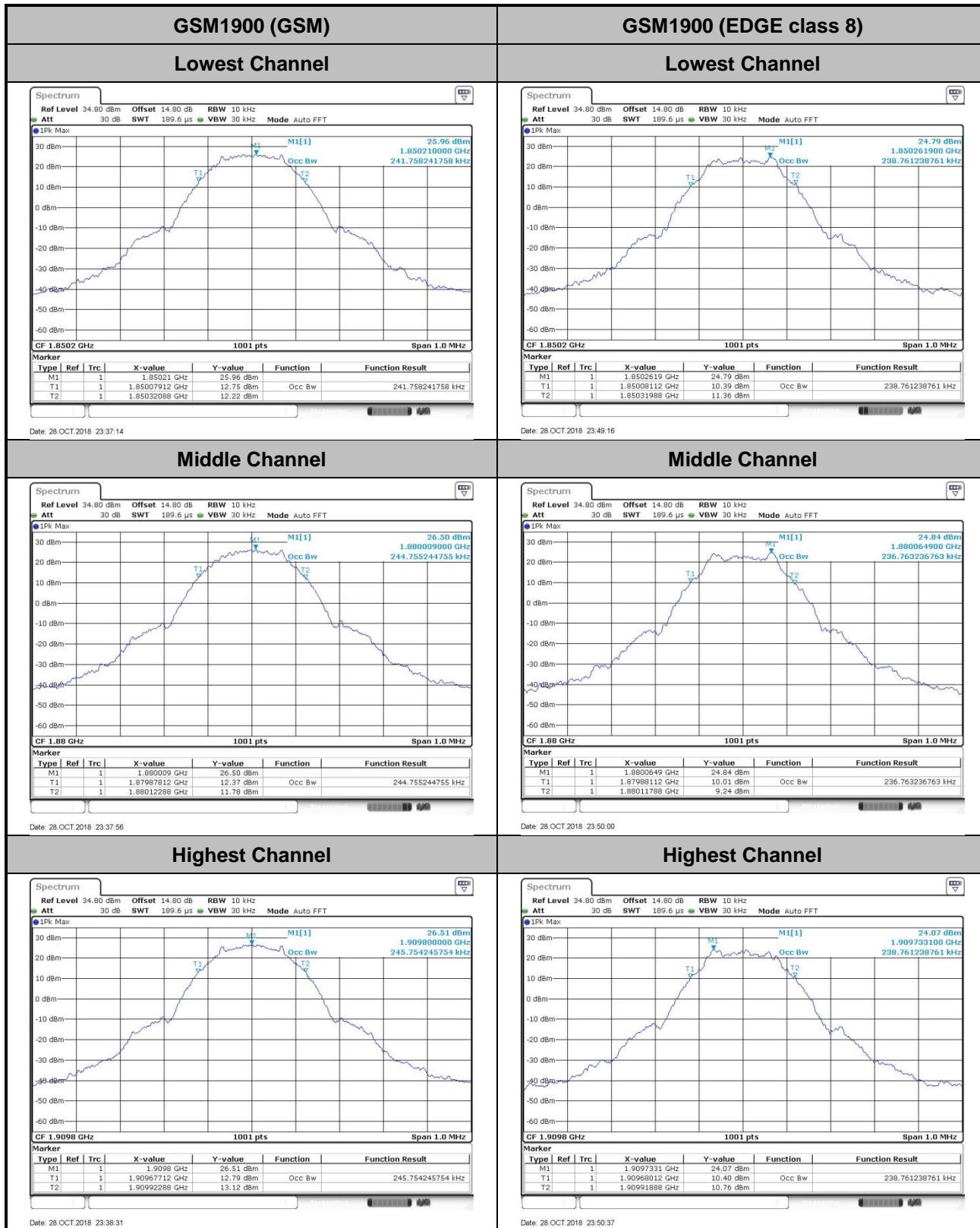
## Occupied Bandwidth

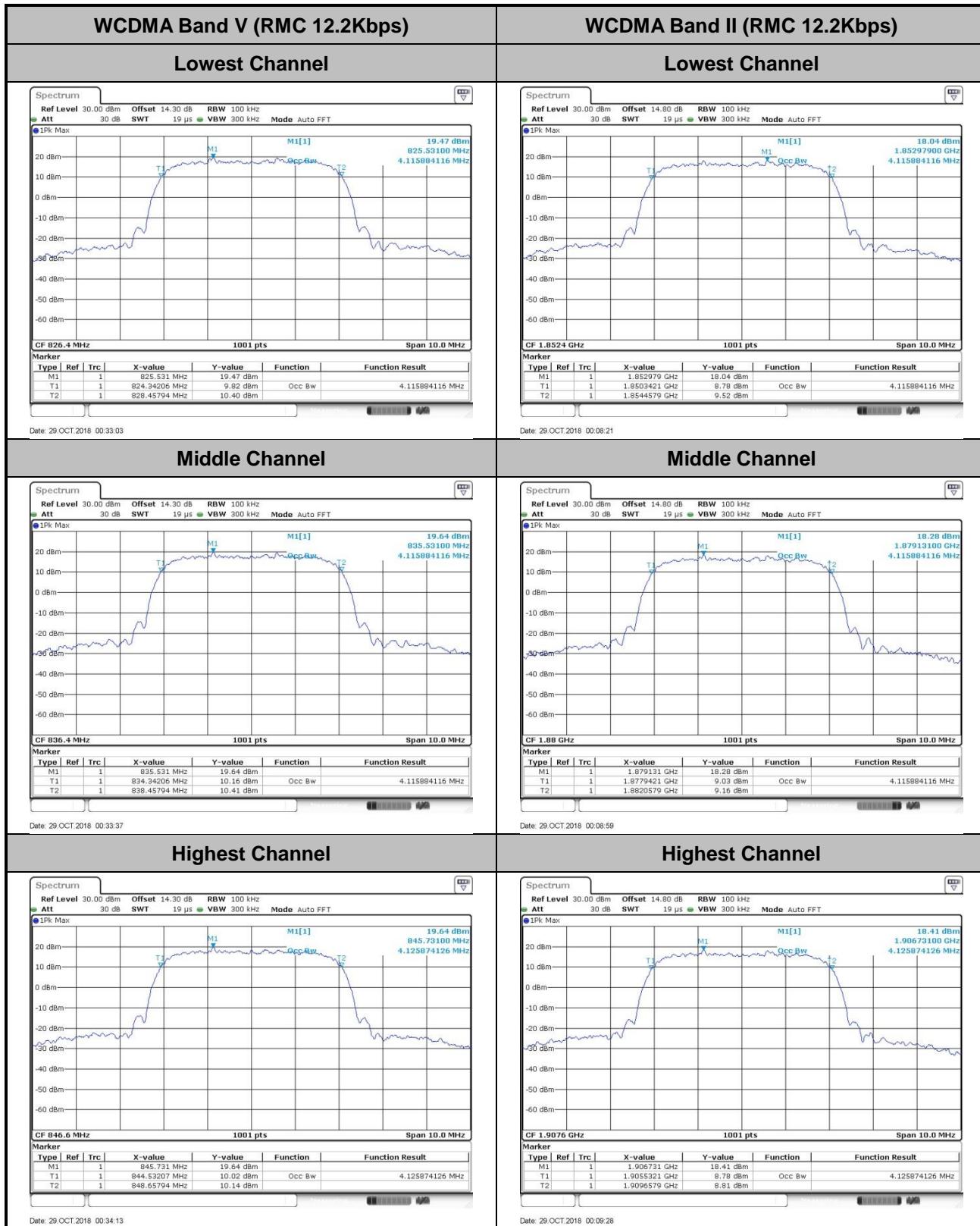
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.241	0.243
Middle CH	0.242	0.242
Highest CH	0.242	0.24

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.239
Middle CH	0.245	0.237
Highest CH	0.246	0.239

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.116	4.116
Middle CH	4.116	4.116
Highest CH	4.126	4.126







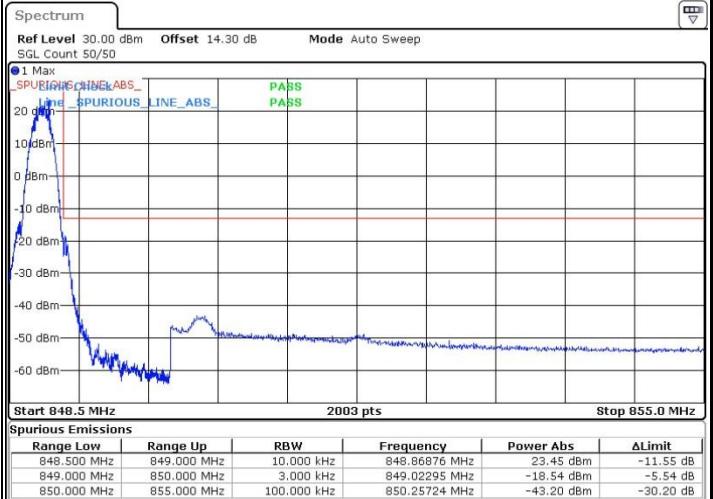
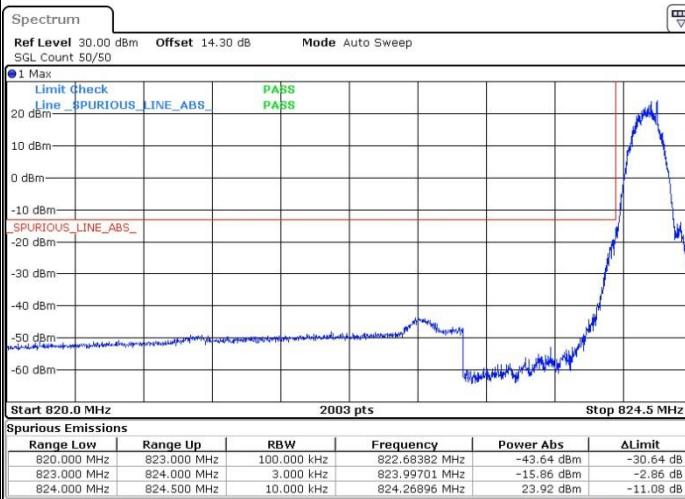


## Conducted Band Edge

### GSM850 (GSM)

#### Lowest Band Edge

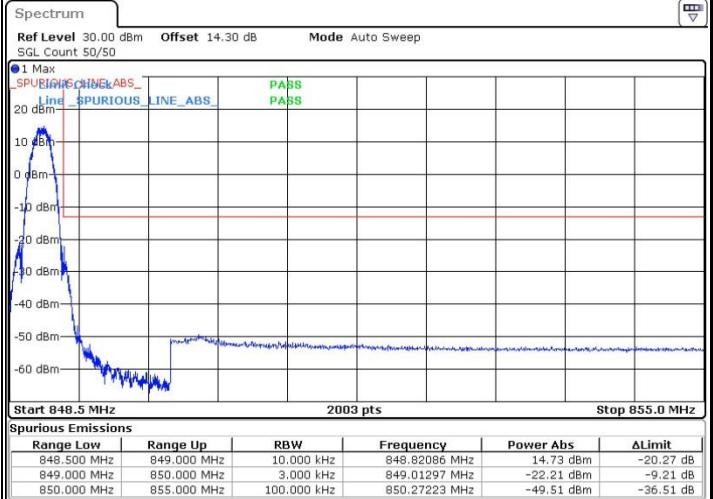
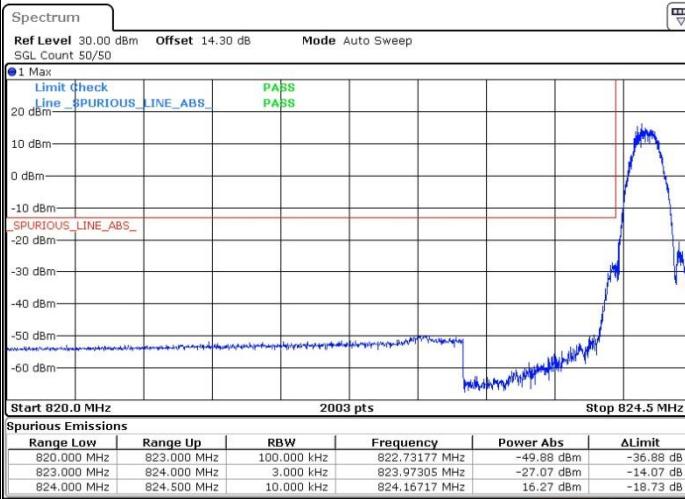
#### Highest Band Edge



### GSM850 (EDGE class 8)

#### Lowest Band Edge

#### Highest Band Edge

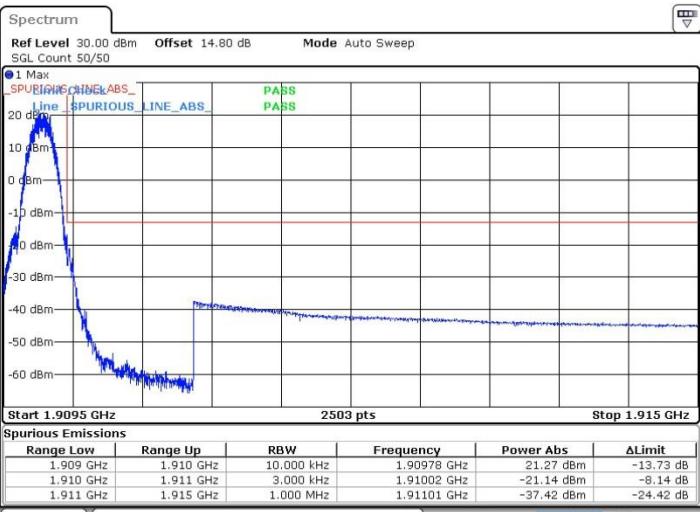
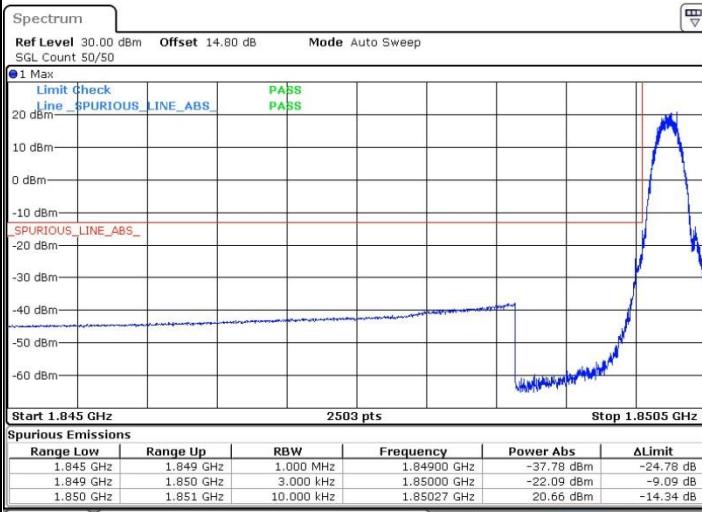




## GSM1900 (GSM)

## Lowest Band Edge

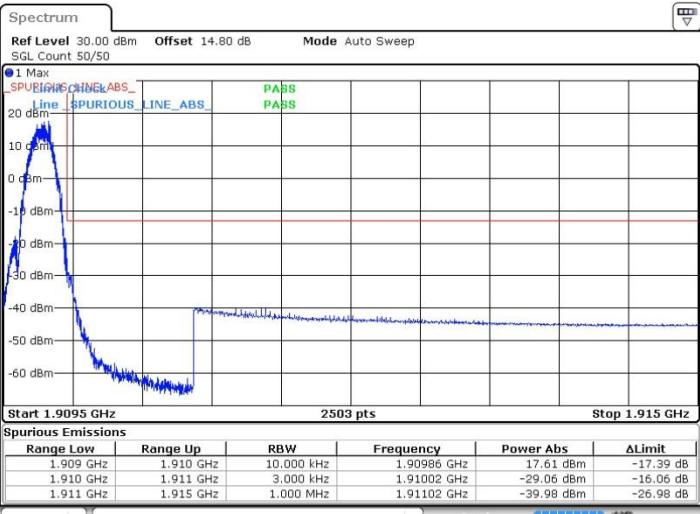
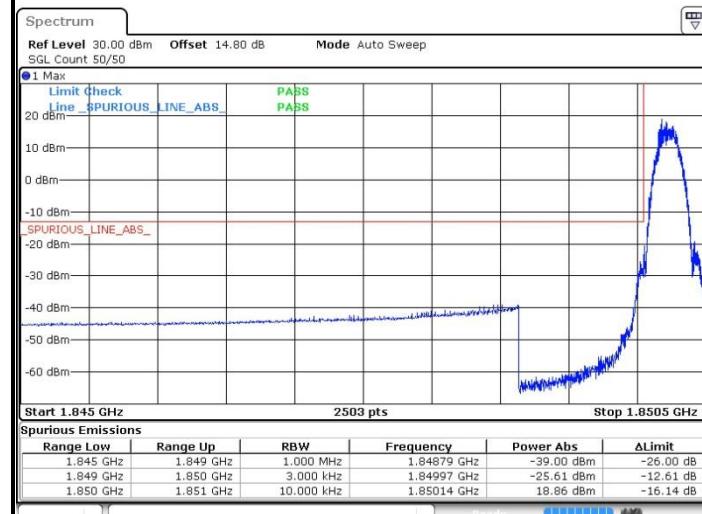
## Highest Band Edge



## GSM1900 (EDGE class 8)

## Lowest Band Edge

## Highest Band Edge

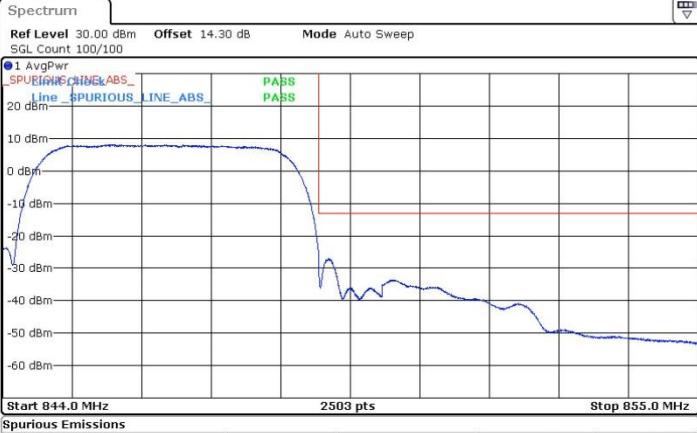




## WCDMA Band V (RMC 12.2Kbps)

## Lowest Band Edge

## Highest Band Edge



Date: 29.OCT.2018 00:39:22

Date: 29.OCT.2018 00:42:36

## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge

## Highest Band Edge

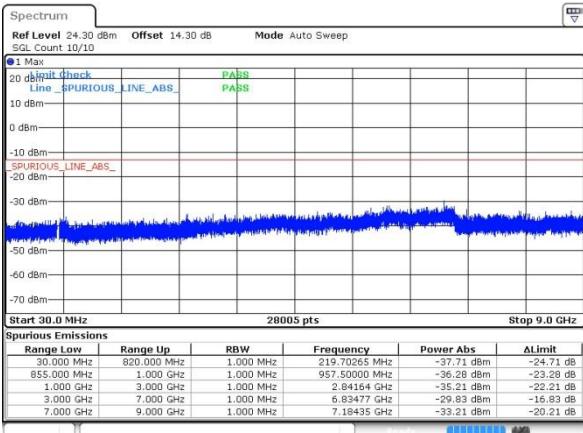
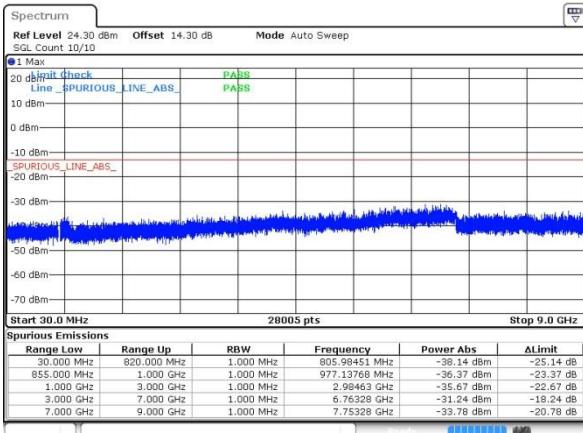
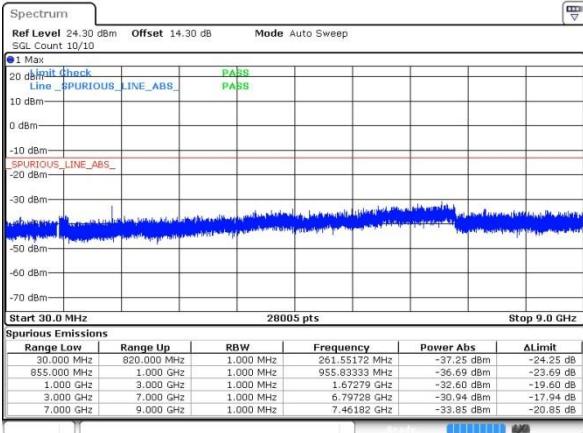
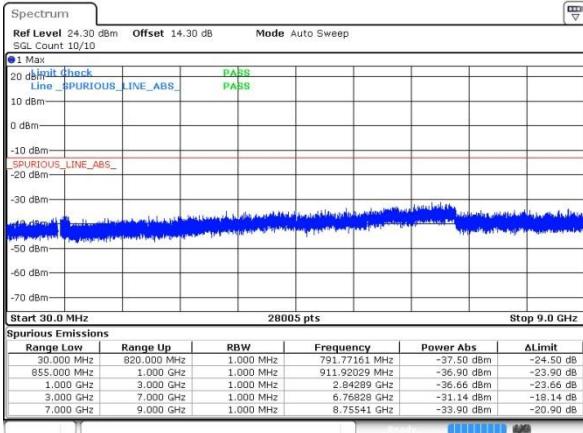
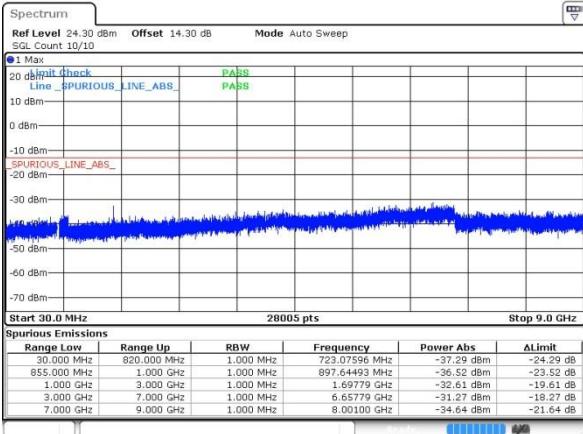
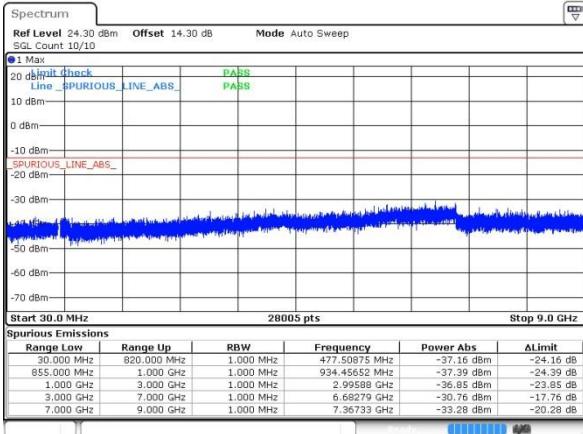


Date: 29.OCT.2018 00:25:46

Date: 29.OCT.2018 00:28:45



## Conducted Spurious Emission

GSM850 (GSM)	GSM850 (EDGE class 8)																																																																								
Lowest Channel																																																																									
 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1" style="margin-top: 5px; border-collapse: collapse;"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>620.000 MHz</td><td>1.000 MHz</td><td>219.70265 MHz</td><td>-37.71 dBm</td><td>-24.71 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>957.50200 MHz</td><td>-36.28 dBm</td><td>-23.28 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.84164 GHz</td><td>-35.21 dBm</td><td>-22.21 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.83477 GHz</td><td>-29.83 dBm</td><td>-16.83 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>7.18435 GHz</td><td>-33.21 dBm</td><td>-20.21 dB</td></tr> </tbody> </table> <p>Date: 28.OCT.2018 23:04:59</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	620.000 MHz	1.000 MHz	219.70265 MHz	-37.71 dBm	-24.71 dB	855.000 MHz	1.000 GHz	1.000 MHz	957.50200 MHz	-36.28 dBm	-23.28 dB	1.000 GHz	3.000 GHz	1.000 MHz	2.84164 GHz	-35.21 dBm	-22.21 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.83477 GHz	-29.83 dBm	-16.83 dB	7.000 GHz	9.000 GHz	1.000 MHz	7.18435 GHz	-33.21 dBm	-20.21 dB	 <p>Spectrum Ref Level 24.30 dBm Offset 14.30 dB Mode Auto Sweep SQL Count 10/10</p> <table border="1" style="margin-top: 5px; border-collapse: collapse;"> <thead> <tr> <th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ALimit</th></tr> </thead> <tbody> <tr><td>30.000 MHz</td><td>620.000 MHz</td><td>1.000 MHz</td><td>805.99451 MHz</td><td>-36.14 dBm</td><td>-25.14 dB</td></tr> <tr><td>855.000 MHz</td><td>1.000 GHz</td><td>1.000 MHz</td><td>977.13768 MHz</td><td>-36.37 dBm</td><td>-23.37 dB</td></tr> <tr><td>1.000 GHz</td><td>3.000 GHz</td><td>1.000 MHz</td><td>2.98463 GHz</td><td>-35.67 dBm</td><td>-22.67 dB</td></tr> <tr><td>3.000 GHz</td><td>7.000 GHz</td><td>1.000 MHz</td><td>6.76328 GHz</td><td>-31.24 dBm</td><td>-18.24 dB</td></tr> <tr><td>7.000 GHz</td><td>9.000 GHz</td><td>1.000 MHz</td><td>7.75328 GHz</td><td>-33.78 dBm</td><td>-20.78 dB</td></tr> </tbody> </table> <p>Date: 28.OCT.2018 23:25:57</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	620.000 MHz	1.000 MHz	805.99451 MHz	-36.14 dBm	-25.14 dB	855.000 MHz	1.000 GHz	1.000 MHz	977.13768 MHz	-36.37 dBm	-23.37 dB	1.000 GHz	3.000 GHz	1.000 MHz	2.98463 GHz	-35.67 dBm	-22.67 dB	3.000 GHz	7.000 GHz	1.000 MHz	6.76328 GHz	-31.24 dBm	-18.24 dB	7.000 GHz	9.000 GHz	1.000 MHz	7.75328 GHz	-33.78 dBm	-20.78 dB
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