



# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2401-1  
FCC ID : IHDT56AQ7  
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : Mar. 07, 2024 ~ Mar. 12, 2024

We, Sporton International Inc. (Kunshan), 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.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen).

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG420701A	Rev. 01	Initial issue of report	Mar. 29, 2024



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	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	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability for Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 19.96 dB at 2512.00 MHz

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 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	XT2401-1
FCC ID	IHDT56AQ7
IMEI Code	Conducted: 357505570025772/357505570025780 Radiation: 357505570026119/357505570026127
HW Version	DVT2
SW Version	UUV34.71
EUT Stage	Identical Prototype

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

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	<b>GSM/GPRS/EDGE:</b> 850: 824 MHz ~ 849 MHz 1900: 1850MHz ~ 1910MHz <b>WCDMA:</b> Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
Rx Frequency	<b>GSM/GPRS/EDGE:</b> 850: 869 MHz ~ 894 MHz 1900: 1930 MHz ~ 1990 MHz <b>WCDMA:</b> Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz



<b>Maximum Output Power to Antenna</b>	<b>Ant.0:</b> <b>GSM/GPRS/EDGE:</b> 850                      32.88 dBm <b>WCDMA:</b> Band V                      22.64 dBm <b>Ant.1:</b> <b>GSM/GPRS/EDGE:</b> 850                      32.98 dBm 1900                      28.35 dBm <b>WCDMA:</b> Band V                      22.71 dBm Band II                      20.61 dBm Band IV                      20.77 dBm <b>Ant.2:</b> <b>GSM/GPRS/EDGE:</b> 1900                      30.03 dBm <b>WCDMA:</b> Band II                      22.45 dBm Band IV                      22.51 dBm
<b>Antenna Gain</b>	<b>Ant.0:</b> Cellular Band: -4.3 dBi <b>Ant.1:</b> Cellular Band: -5.7 dBi PCS Band: -2.2 dBi AWS Band: -2.7 dBi <b>Ant.2:</b> PCS Band: -2.7 dBi AWS Band: -2.4 dBi
<b>Type of Modulation</b>	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: BPSK HSPA: QPSK HSPA+ : 16QAM (16QAM Uplink is not supported) DC-HSDPA: 64QAM

**Note:** The maximum ERP/EIRP is calculated from max output power and antenna gain, only the maximum ERP/EIRP of Ant.0 for GSM850/WCDMA Band V, and Ant.2 for GSM1900/WCDMA Band II/IV is shown in the report.

### 1.5 Modification of EUT

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



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

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum ERP/EIRP (W)	Emission Designator
Part 22	GSM850 (GSM)	824.2 ~ 848.8	GMSK	0.4395	243KGXW
Part 22	GSM850 (EDGE)	824.2 ~ 848.8	8PSK	0.1062	245KG7W
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0416	4M14F9W
Part 24	GSM1900 (GSM)	1850.2 ~ 1909.8	GMSK	0.5408	242KGXW
Part 24	GSM1900 (EDGE)	1850.2 ~ 1909.8	8PSK	0.2173	248KG7W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.0944	4M15F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.1026	4M15F9W

### 1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

**Note:** Test data subcontracted: conducted test case in section 3.4~3.9 of this report.



### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

### 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 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.

### 1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-1251
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-1252
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-1253
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-1255
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-1256
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-1257
AC Adapter 2(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-1251
AC Adapter 2(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-1252
AC Adapter 2(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-1253
AC Adapter 2(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-1254
AC Adapter 2(AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-1255
AC Adapter 2(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-1256
AC Adapter 2(BR)	Brand Name	Motorola(AOHAI)	Model Name	MC-1257
AC Adapter 2(Chile)	Brand Name	Motorola(AOHAI)	Model Name	MC-1259
Battery	Brand Name	Motorola(ATL)	Model Name	QV45
USB Cable	Brand Name	Motorola(Saibao)	Model Name	SC18D71644
Wireless Earphone	Brand Name	Motorola	Model Name	XT2441-1
Wireless Charging dock	Marketing Name	Turbo Power 50W Wireless Charging Stand	Model Name	MW-02





## 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.

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

Radiated emissions were investigated as following frequency range:

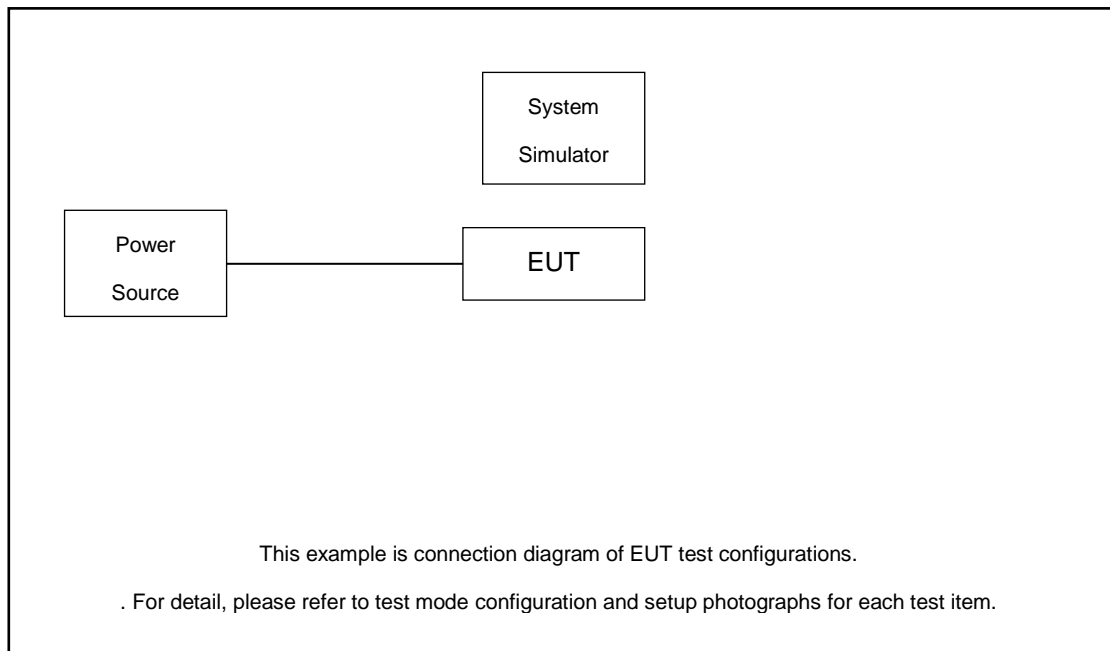
1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for GSM1900 and WCDMA Band II.

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	<ul style="list-style-type: none"> <li>■ GPRS 1 Tx slots Link</li> <li>■ EDGE 1 Tx slots Link</li> </ul>	<ul style="list-style-type: none"> <li>■ GPRS 1 Tx slots Link</li> <li>■ EDGE 1 Tx slots Link</li> </ul>
GSM 1900	<ul style="list-style-type: none"> <li>■ GPRS 1 Tx slots Link</li> <li>■ EDGE 1 Tx slots Link</li> </ul>	<ul style="list-style-type: none"> <li>■ GPRS 1 Tx slots Link</li> <li>■ EDGE 1 Tx slots Link</li> </ul>
WCDMA Band V	<ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>	<ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>
WCDMA Band II	<ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>	<ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>
WCDMA Band IV	<ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>	<ul style="list-style-type: none"> <li>■ RMC 12.2Kbps Link</li> </ul>

## 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

## 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820/8821	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 4.0 dB and a 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.0 + 10 = 14.0 \text{ (dB)} \end{aligned}$$

## 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
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

### 3 Conducted Test Result

#### 3.1 Measuring Instruments

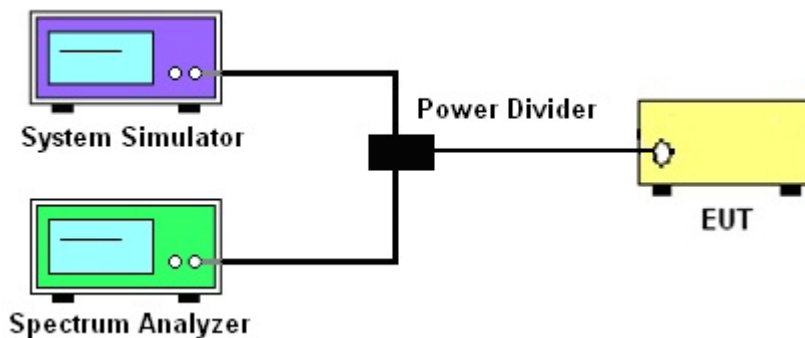
See list of measuring instruments of this test report.

#### 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.

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 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

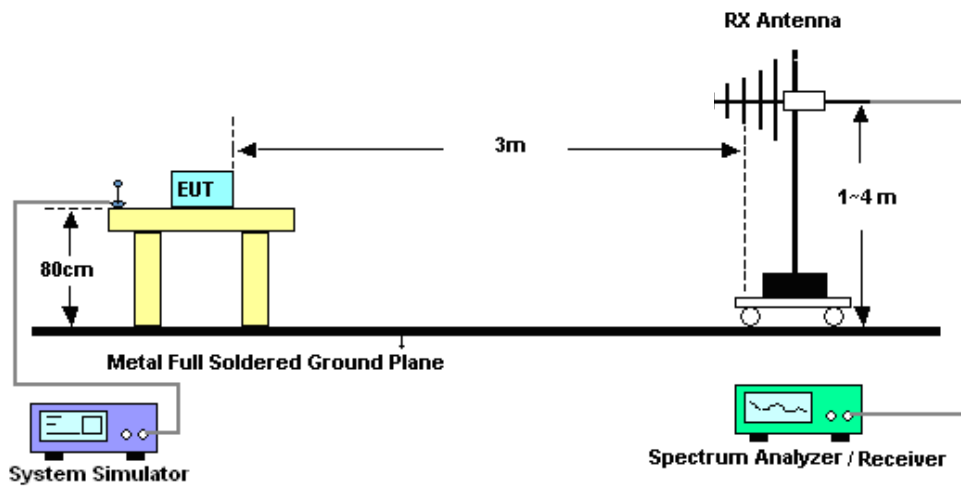
See list of measuring instruments of this test report.

### 4.2 Test Setup

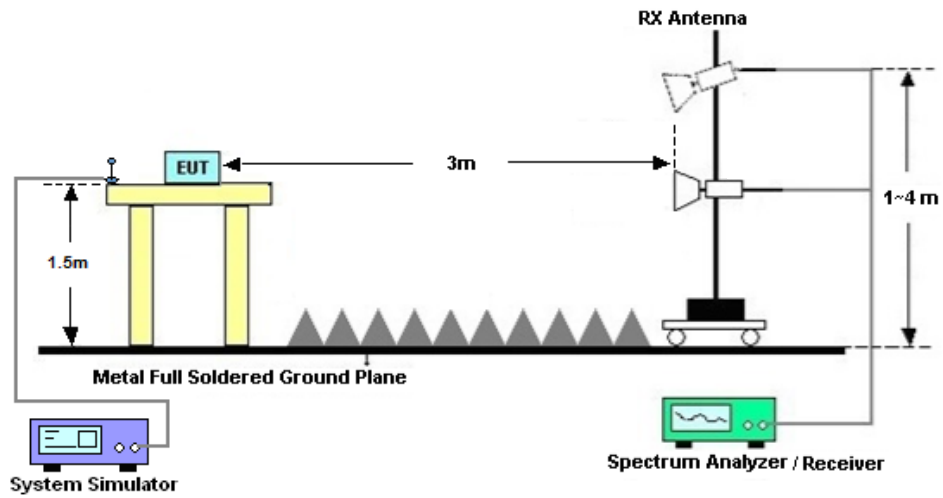
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



### 4.2.3 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12.  $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
14. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Mar. 07, 2024~ Mar. 08, 2024	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Mar. 07, 2024~ Mar. 08, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Mar. 07, 2024~ Mar. 08, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Mar. 07, 2024~ Mar. 08, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 10, 2023	Mar. 12, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Mar. 12, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Mar. 12, 2024	Apr. 08, 2024	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251694	1GHz~18GHz	Jul. 12, 2023	Mar. 12, 2024	Jul. 11, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2024	Mar. 12, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Mar. 12, 2024	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2024	Mar. 12, 2024	Jan. 04, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 10, 2023	Mar. 12, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 10, 2023	Mar. 12, 2024	Oct. 09, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 12, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 12, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 12, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±1.34 dB
Frequency Stability	±1.3 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82dB
---	--------

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56dB
---	--------

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.54dB
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----- THE END -----



## Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	Temperature :	24~26°C
		Relative Humidity :	50~53%

### Conducted Output Power(Average power)

#### GSM850\_Ant 0

GSM850 TX Channel	Burst Average Power (dBm)			ERP(W)		
	128	189	251	L	M	H
Frequency (MHz)	824.2	836.4	848.8			
GSM 1 Tx slot	32.70	32.82	32.78	0.4217	0.4335	0.4295
GPRS 1 Tx slot	32.74	32.85	32.88	0.4256	0.4365	0.4395
GPRS 2 Tx slots	29.65	30.91	30.48	0.2089	0.2793	0.2529
GPRS 3 Tx slots	28.16	29.33	29.51	0.1483	0.1941	0.2023
GPRS 4 Tx slots	26.54	27.73	27.91	0.1021	0.1343	0.1400
EDGE 1 Tx slot	25.65	26.45	26.71	0.0832	0.1000	0.1062
EDGE 2 Tx slots	24.67	25.48	25.28	0.0664	0.0800	0.0764
EDGE 3 Tx slots	23.14	23.92	23.91	0.0467	0.0558	0.0557
EDGE 4 Tx slots	21.52	22.24	22.21	0.0321	0.0379	0.0377

#### GSM1900\_Ant 2

GSM1900 TX Channel	Burst Average Power (dBm)			EIRP(W)		
	512	661	810	L	M	H
Frequency (MHz)	1850.2	1880	1909.8			
GSM 1 Tx slot	28.60	29.98	29.60	0.3890	0.5346	0.4898
GPRS 1 Tx slot	28.65	30.03	29.65	0.3936	0.5408	0.4955
GPRS 2 Tx slots	26.55	27.87	27.71	0.2427	0.3289	0.3170
GPRS 3 Tx slots	25.01	26.19	26.12	0.1702	0.2234	0.2198
GPRS 4 Tx slots	23.51	24.55	24.28	0.1205	0.1531	0.1439
EDGE 1 Tx slot	24.74	25.69	26.07	0.1600	0.1991	0.2173
EDGE 2 Tx slots	23.58	24.55	24.93	0.1225	0.1531	0.1671
EDGE 3 Tx slots	22.00	23.16	23.34	0.0851	0.1112	0.1159
EDGE 4 Tx slots	20.52	21.58	21.77	0.0605	0.0773	0.0807





WCDMA Band V\_Ant 0

Band		WCDMA V			ERP(W)		
TX Channel		4132	4182	4233			
Rx Channel		4357	4407	4458	L M H		
Frequency (MHz)		826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	22.53	22.62	22.56	0.0406	0.0414	0.0408
3GPP Rel 99	RMC 12.2Kbps	22.58	22.64	22.63	0.0410	0.0416	0.0415
3GPP Rel 6	HSDPA Subtest-1	21.57	21.69	21.68	0.0325	0.0334	0.0333
3GPP Rel 6	HSDPA Subtest-2	21.61	21.64	21.62	0.0328	0.0330	0.0329
3GPP Rel 6	HSDPA Subtest-3	21.07	21.17	21.07	0.0290	0.0296	0.0290
3GPP Rel 6	HSDPA Subtest-4	21.00	21.15	21.15	0.0285	0.0295	0.0295
3GPP Rel 8	DC-HSDPA Subtest-1	21.53	21.63	21.64	0.0322	0.0330	0.0330
3GPP Rel 8	DC-HSDPA Subtest-2	21.61	21.71	21.57	0.0328	0.0336	0.0325
3GPP Rel 8	DC-HSDPA Subtest-3	21.03	21.11	21.08	0.0287	0.0292	0.0290
3GPP Rel 8	DC-HSDPA Subtest-4	21.05	21.09	21.12	0.0288	0.0291	0.0293
3GPP Rel 6	HSUPA Subtest-1	21.61	21.57	21.70	0.0328	0.0325	0.0335
3GPP Rel 6	HSUPA Subtest-2	19.54	19.68	19.65	0.0204	0.0210	0.0209
3GPP Rel 6	HSUPA Subtest-3	20.57	20.60	20.69	0.0258	0.0260	0.0265
3GPP Rel 6	HSUPA Subtest-4	19.54	19.67	19.60	0.0204	0.0210	0.0207
3GPP Rel 6	HSUPA Subtest-5	21.50	21.67	21.60	0.0320	0.0333	0.0327

WCDMA Band II\_Ant 2

Band		WCDMA II			EIRP(W)		
TX Channel		9262	9400	9538			
Rx Channel		9662	9800	9938	L M H		
Frequency (MHz)		1852.4	1880	1907.6			
3GPP Rel 99	AMR 12.2Kbps	22.34	22.43	22.42	0.0920	0.0940	0.0938
3GPP Rel 99	RMC 12.2Kbps	22.34	22.45	22.43	0.0920	0.0944	0.0940
3GPP Rel 6	HSDPA Subtest-1	21.30	21.38	21.44	0.0724	0.0738	0.0748
3GPP Rel 6	HSDPA Subtest-2	21.41	21.41	21.53	0.0743	0.0743	0.0764
3GPP Rel 6	HSDPA Subtest-3	20.82	21.01	20.88	0.0649	0.0678	0.0658
3GPP Rel 6	HSDPA Subtest-4	20.80	20.92	20.85	0.0646	0.0664	0.0653
3GPP Rel 8	DC-HSDPA Subtest-1	21.32	21.54	21.48	0.0728	0.0766	0.0755
3GPP Rel 8	DC-HSDPA Subtest-2	21.41	21.48	21.29	0.0743	0.0755	0.0723
3GPP Rel 8	DC-HSDPA Subtest-3	20.77	20.88	20.93	0.0641	0.0658	0.0665
3GPP Rel 8	DC-HSDPA Subtest-4	20.92	20.95	20.85	0.0664	0.0668	0.0653
3GPP Rel 6	HSUPA Subtest-1	21.40	21.37	21.49	0.0741	0.0736	0.0757
3GPP Rel 6	HSUPA Subtest-2	19.41	19.45	19.49	0.0469	0.0473	0.0478
3GPP Rel 6	HSUPA Subtest-3	20.37	20.44	20.52	0.0585	0.0594	0.0605
3GPP Rel 6	HSUPA Subtest-4	19.34	19.43	19.45	0.0461	0.0471	0.0473
3GPP Rel 6	HSUPA Subtest-5	21.39	21.50	21.52	0.0740	0.0759	0.0762



WCDMA Band IV\_Ant 2

Band		WCDMA IV			EIRP(W)		
TX Channel		1312	1413	1513			
Rx Channel		1537	1638	1738			
Frequency (MHz)		1712.4	1732.6	1752.6	L	M	H
3GPP Rel 99	AMR 12.2Kbps	22.45	22.35	22.47	0.1012	0.0989	0.1016
3GPP Rel 99	RMC 12.2Kbps	22.43	22.51	22.45	0.1007	0.1026	0.1012
3GPP Rel 6	HSDPA Subtest-1	21.41	21.47	21.47	0.0796	0.0807	0.0807
3GPP Rel 6	HSDPA Subtest-2	21.44	21.42	21.43	0.0802	0.0798	0.0800
3GPP Rel 6	HSDPA Subtest-3	20.87	20.92	20.82	0.0703	0.0711	0.0695
3GPP Rel 6	HSDPA Subtest-4	20.84	20.96	20.96	0.0698	0.0718	0.0718
3GPP Rel 8	DC-HSDPA Subtest-1	21.37	21.42	21.42	0.0789	0.0798	0.0798
3GPP Rel 8	DC-HSDPA Subtest-2	21.52	21.51	21.36	0.0817	0.0815	0.0787
3GPP Rel 8	DC-HSDPA Subtest-3	20.74	20.90	21.01	0.0682	0.0708	0.0726
3GPP Rel 8	DC-HSDPA Subtest-4	20.94	20.95	20.81	0.0714	0.0716	0.0693
3GPP Rel 6	HSUPA Subtest-1	21.36	21.40	21.40	0.0787	0.0794	0.0794
3GPP Rel 6	HSUPA Subtest-2	19.31	19.52	19.44	0.0491	0.0515	0.0506
3GPP Rel 6	HSUPA Subtest-3	20.45	20.35	20.56	0.0638	0.0624	0.0655
3GPP Rel 6	HSUPA Subtest-4	19.34	19.47	19.53	0.0494	0.0509	0.0516
3GPP Rel 6	HSUPA Subtest-5	21.36	21.53	21.49	0.0787	0.0818	0.0811

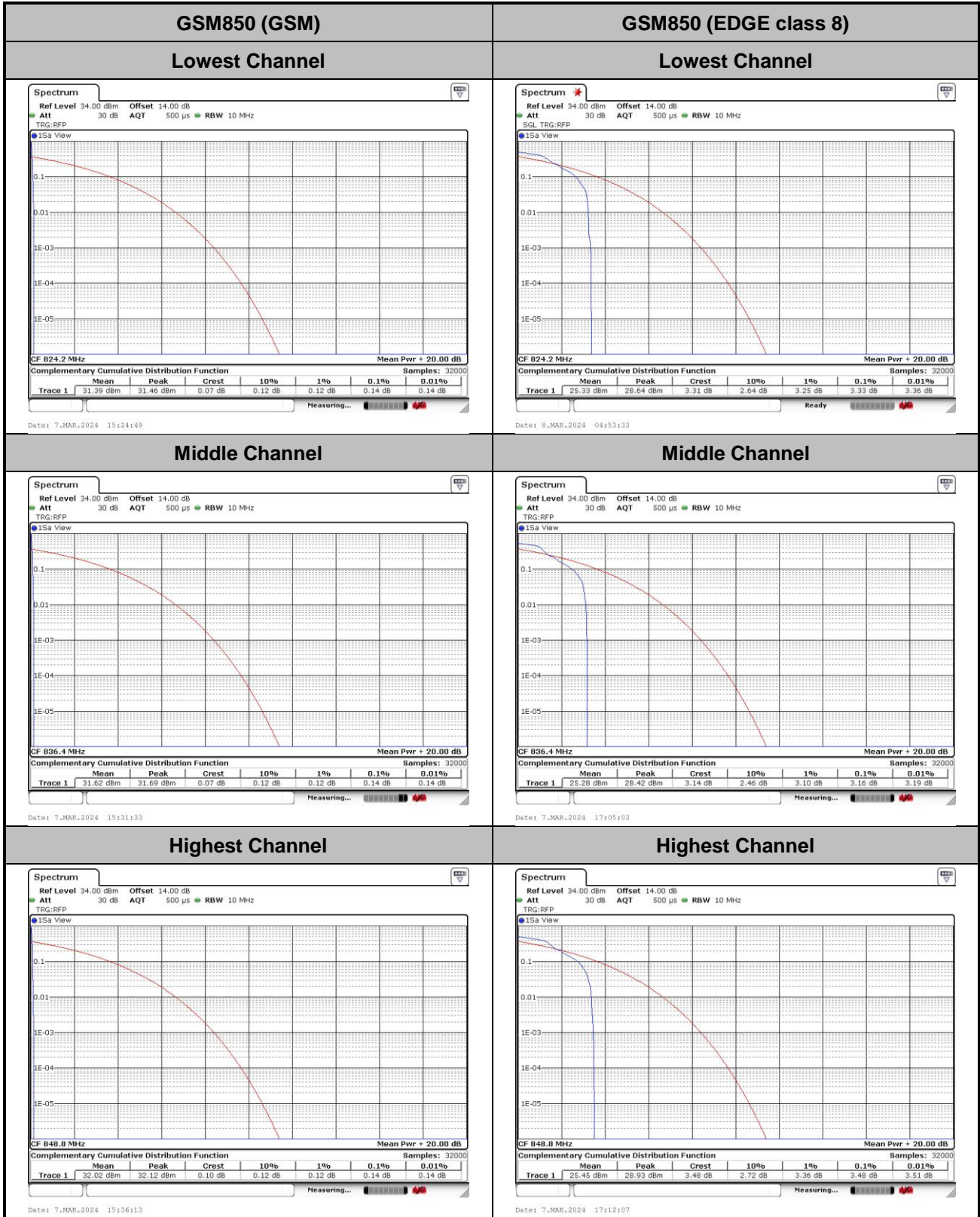


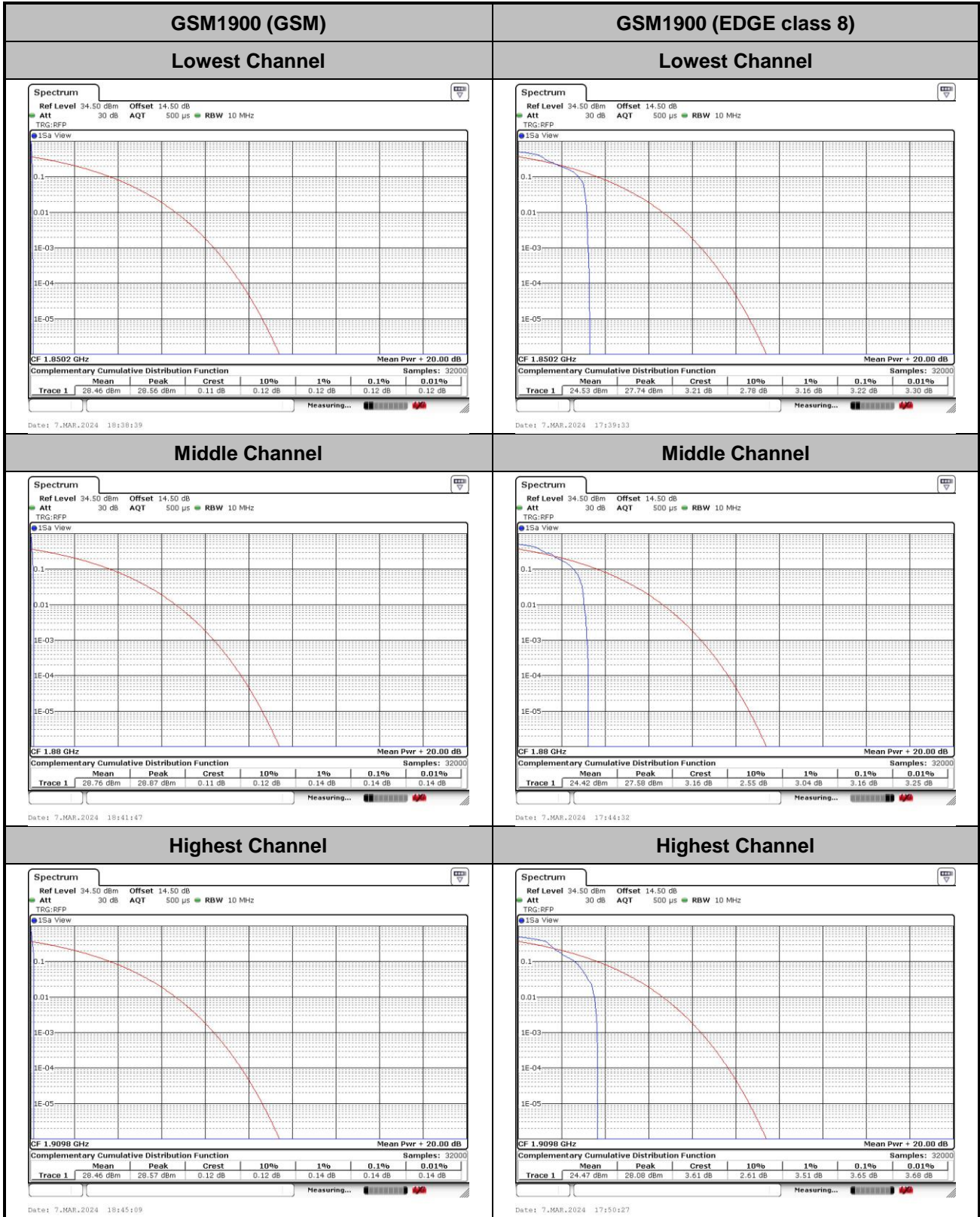
## A1. GSM

### Peak-to-Average Ratio

Mode	GSM850(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.14	3.33	PASS
Middle CH	0.14	3.16	
Highest CH	0.14	3.48	

Mode	GSM1900(dB)		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.12	3.22	PASS
Middle CH	0.14	3.16	
Highest CH	0.14	3.65	







**26dB Bandwidth**

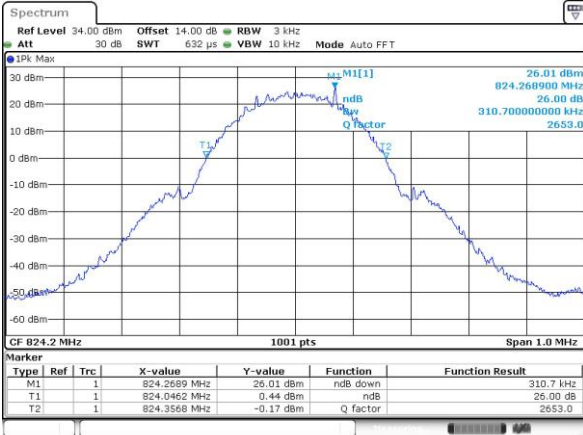
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.31	0.31
Middle CH	0.31	0.31
Highest CH	0.32	0.31

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.31	0.31
Middle CH	0.31	0.31
Highest CH	0.31	0.32



GSM850 (GSM)

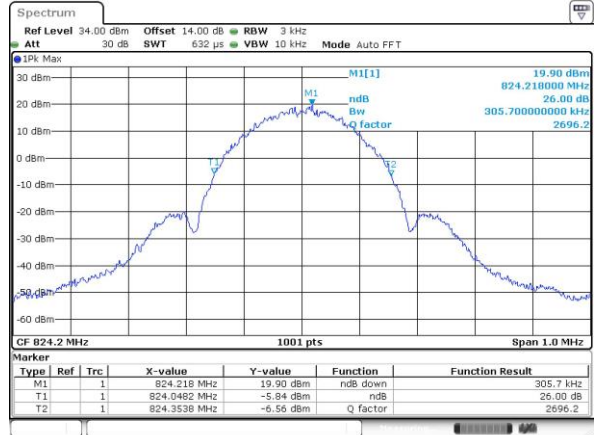
Lowest Channel



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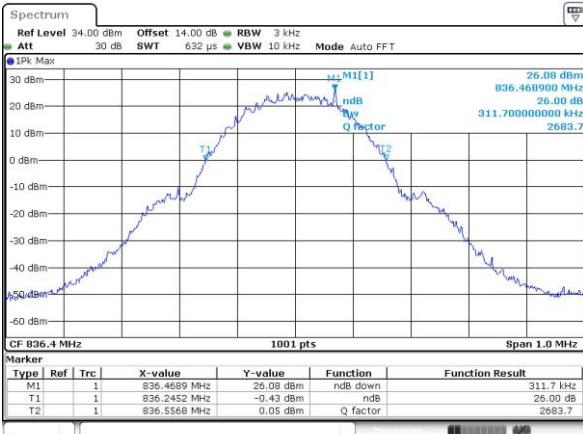
GSM850 (EDGE class 8)

Lowest Channel



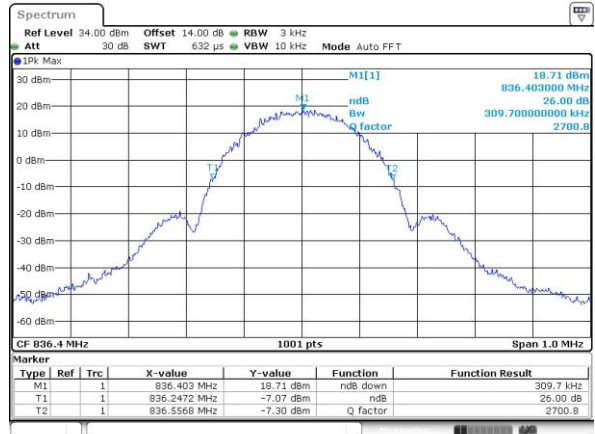
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Middle Channel



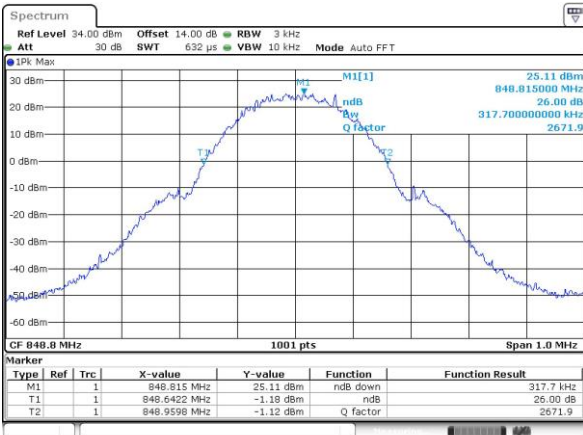
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Middle Channel



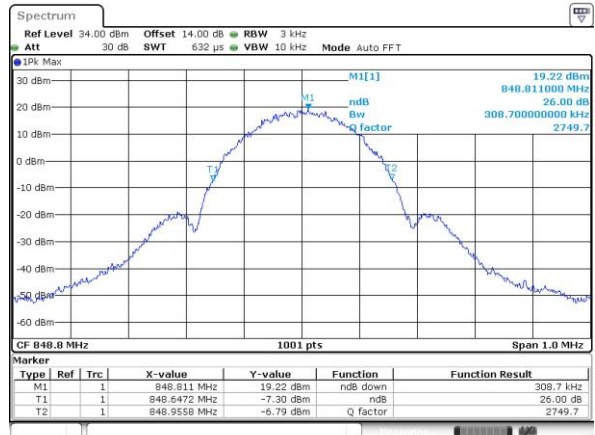
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Highest Channel



Date: 7\_MAR.2024 15:31:57

Highest Channel

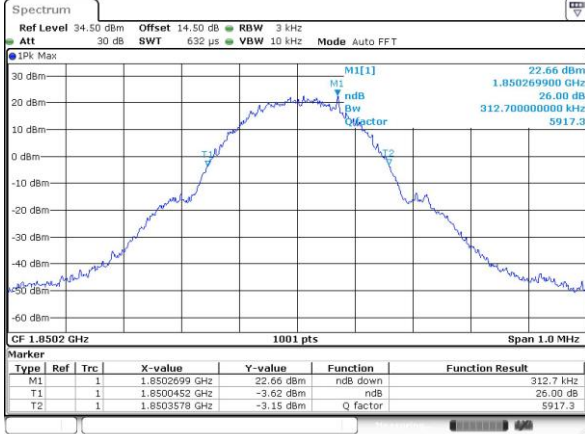


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GSM1900 (GSM)

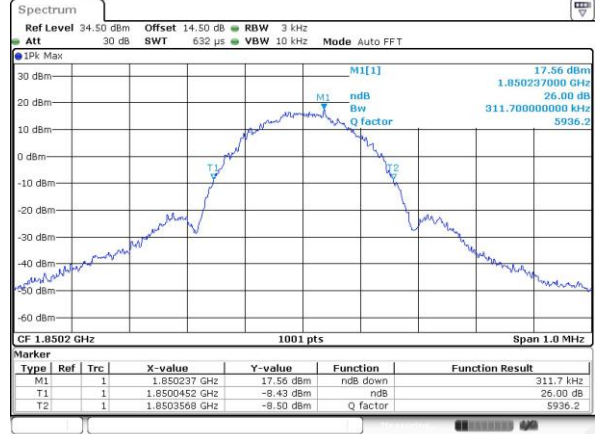
Lowest Channel



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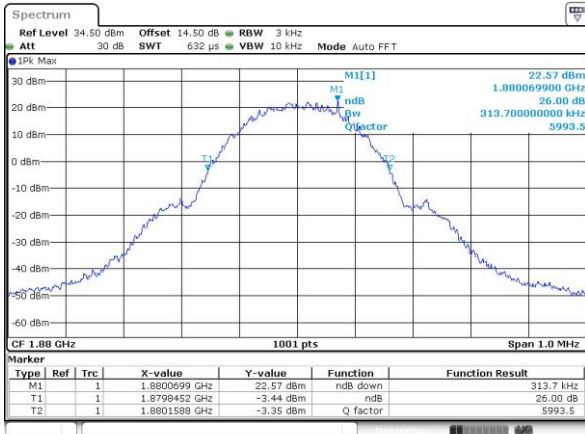
GSM1900 (EDGE class 8)

Lowest Channel



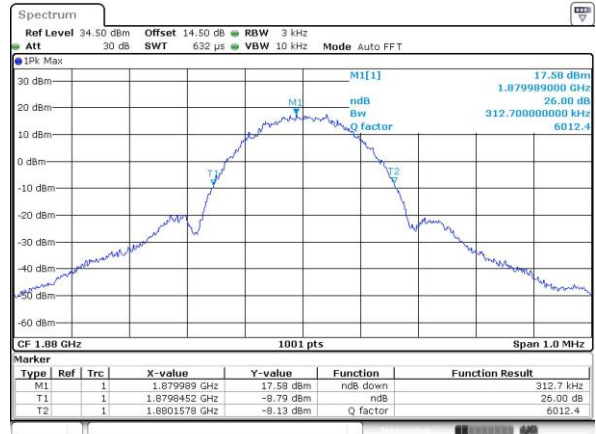
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Middle Channel



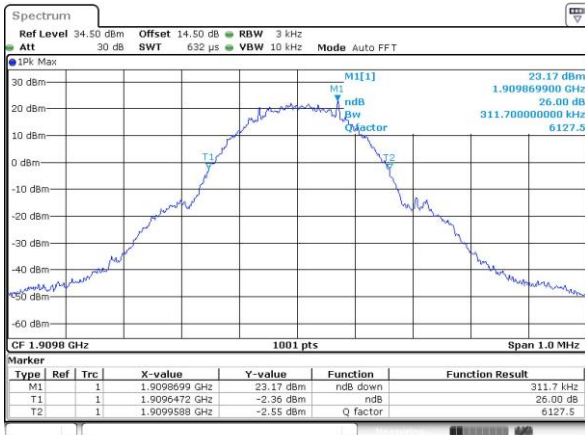
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Middle Channel



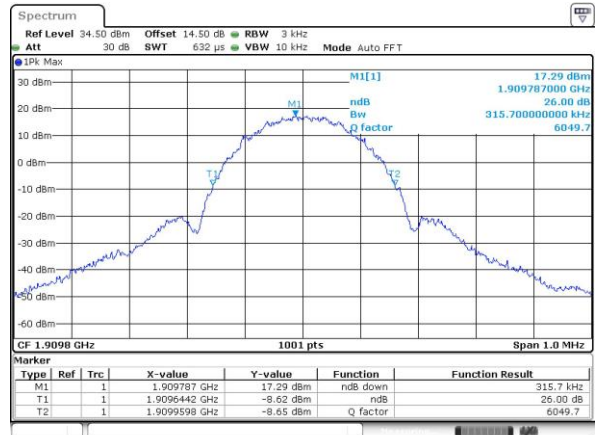
Date: 7\_MAR.2024 17:40:46

Highest Channel



Date: 7\_MAR.2024 18:42:27

Highest Channel



Date: 7\_MAR.2024 17:45:07





### Occupied Bandwidth

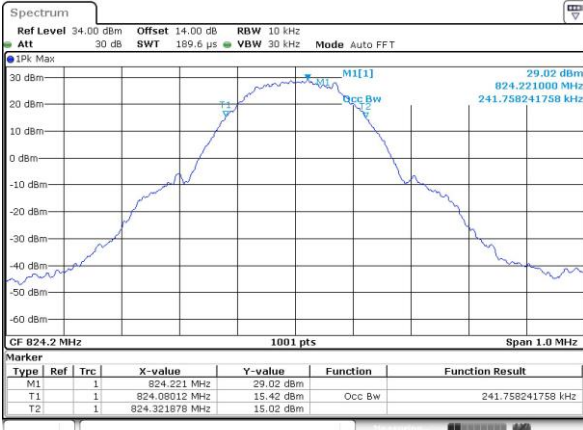
Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.243
Middle CH	0.243	0.245
Highest CH	0.240	0.241

Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.248
Middle CH	0.242	0.248
Highest CH	0.242	0.246



GSM850 (GSM)

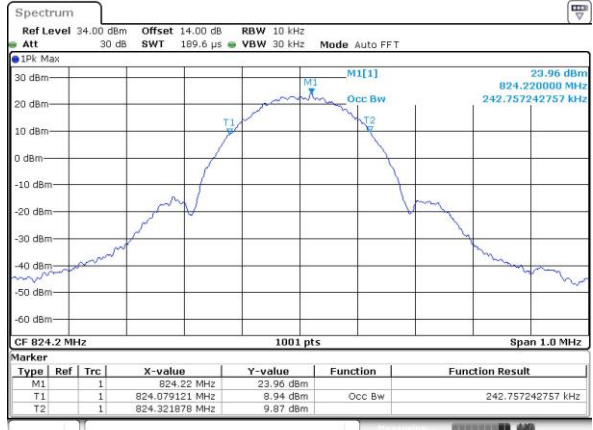
Lowest Channel



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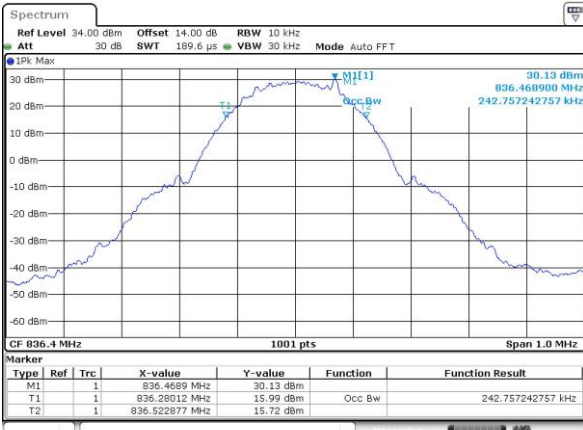
GSM850 (EDGE class 8)

Lowest Channel



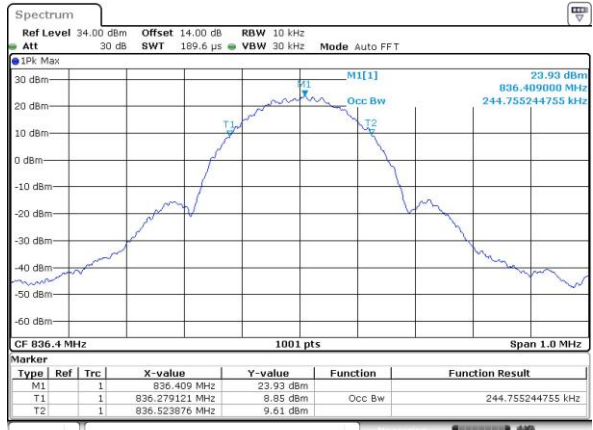
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Middle Channel



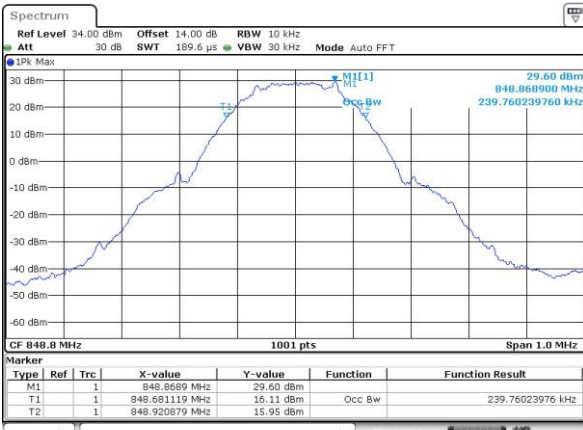
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Middle Channel



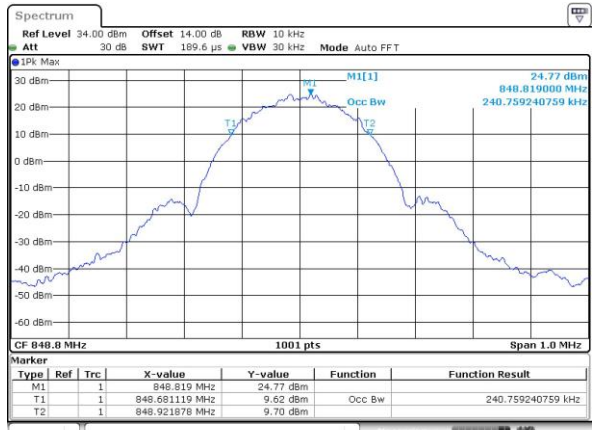
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Highest Channel



Date: 7\_MAR.2024 15:32:43

Highest Channel



Date: 7\_MAR.2024 17:06:06



GSM1900 (GSM)

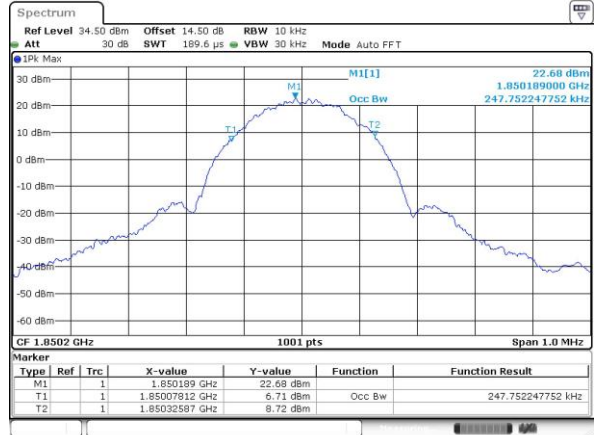
Lowest Channel



Date: 7\_MAR.2024 17:55:56

GSM1900 (EDGE class 8)

Lowest Channel



Date: 7\_MAR.2024 17:36:11

Middle Channel



Date: 7\_MAR.2024 18:59:27

Middle Channel



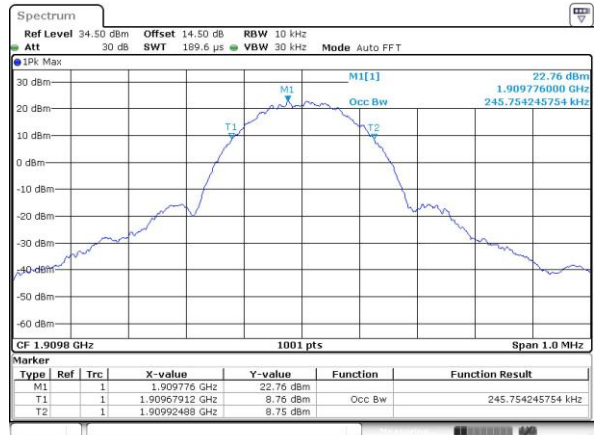
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Highest Channel



Date: 7\_MAR.2024 18:43:08

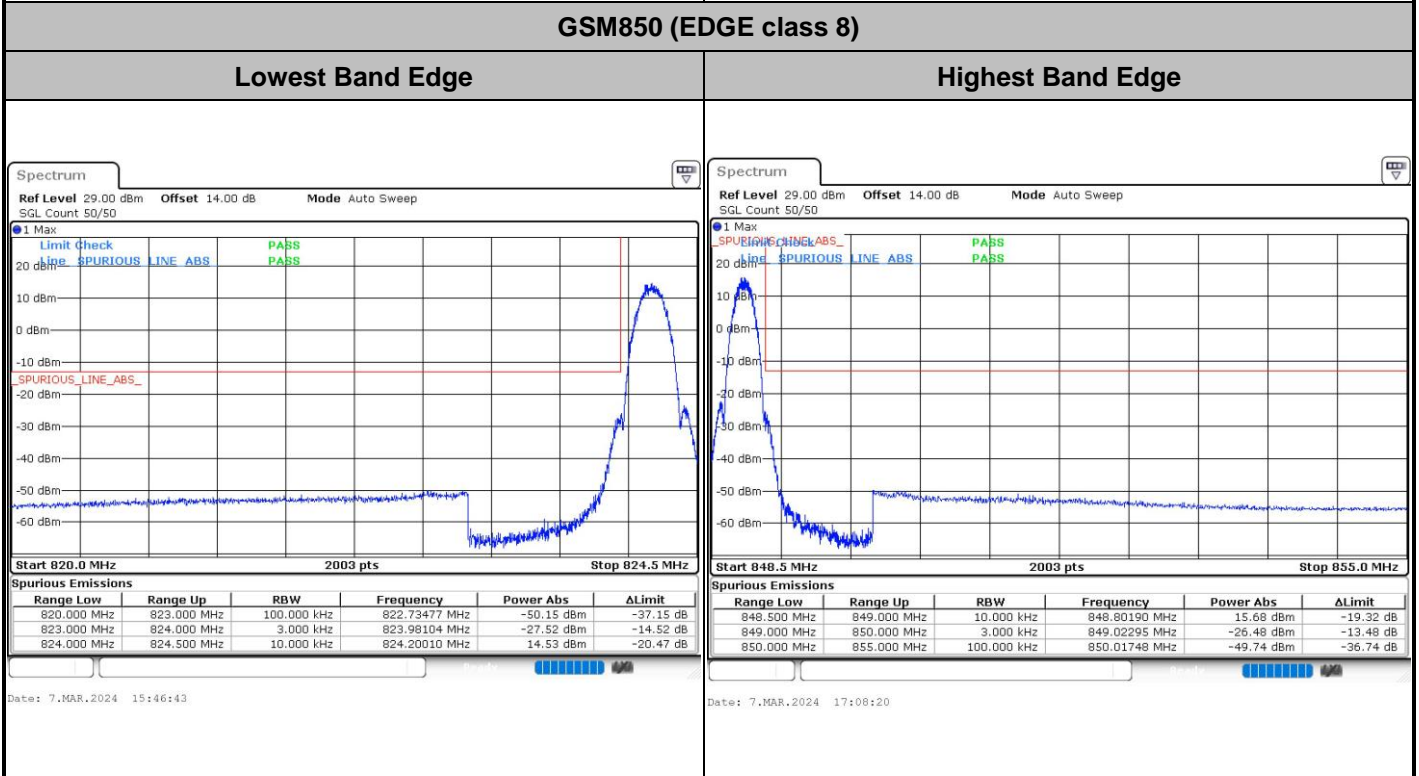
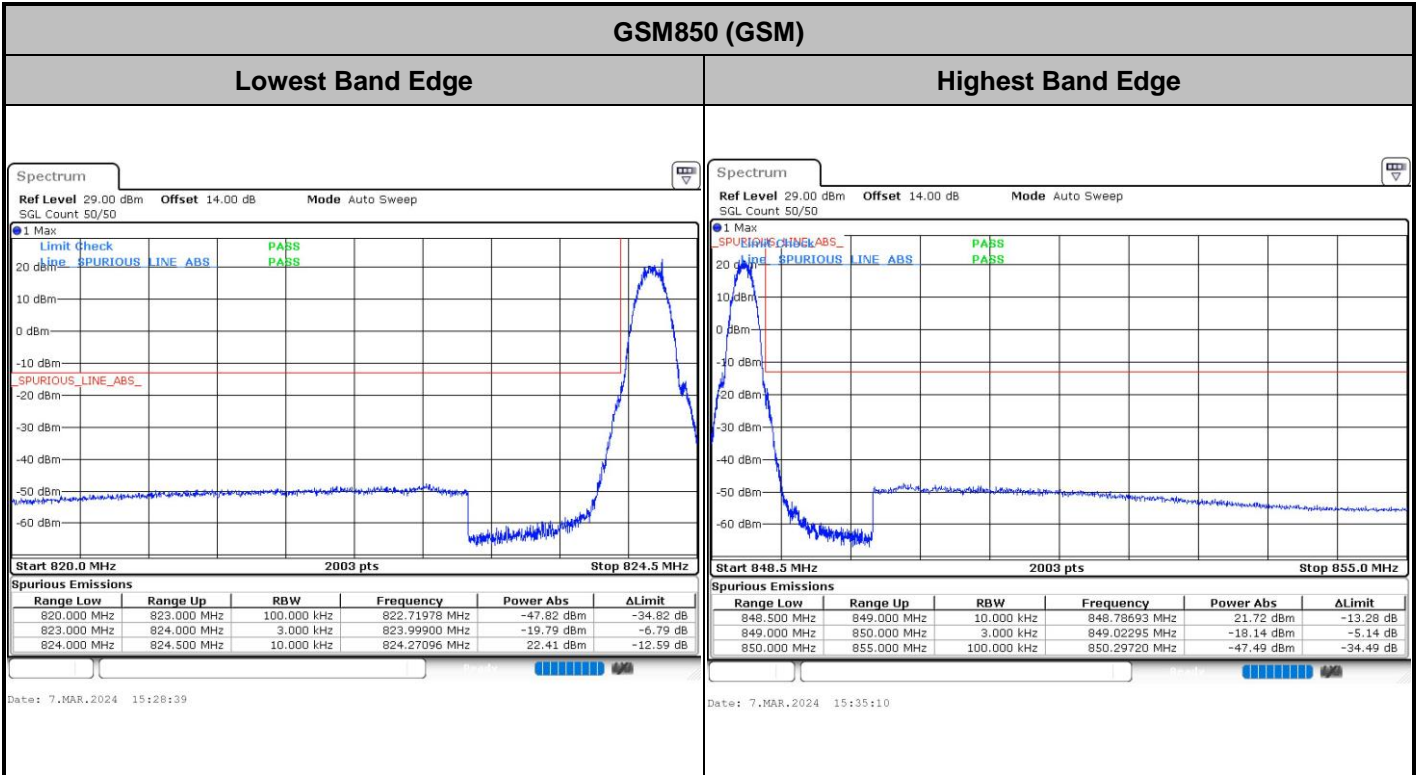
Highest Channel



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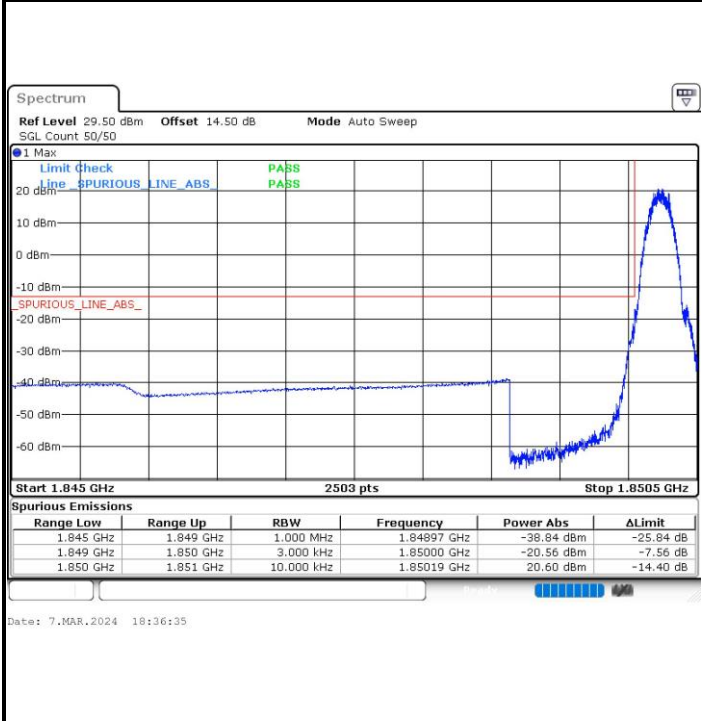
# Conducted Band Edge



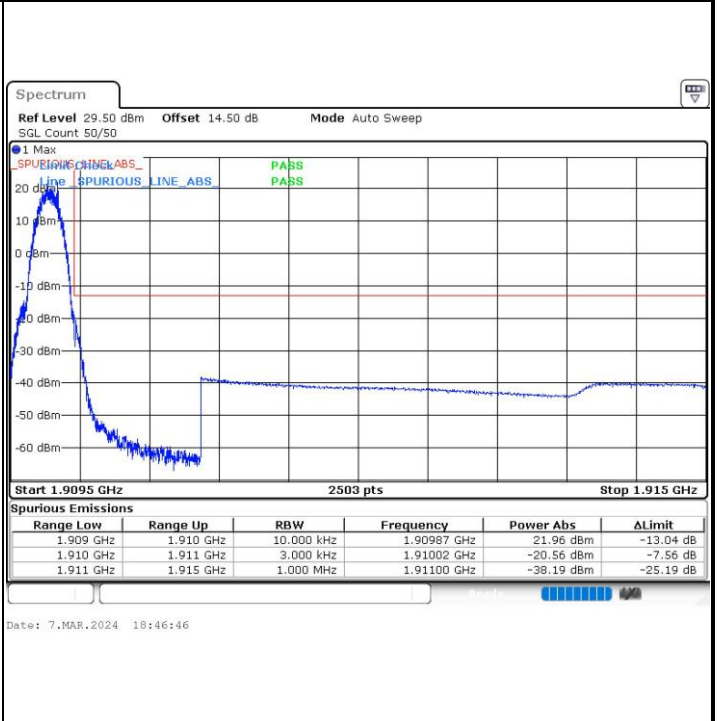


### GSM1900 (GSM)

#### Lowest Band Edge

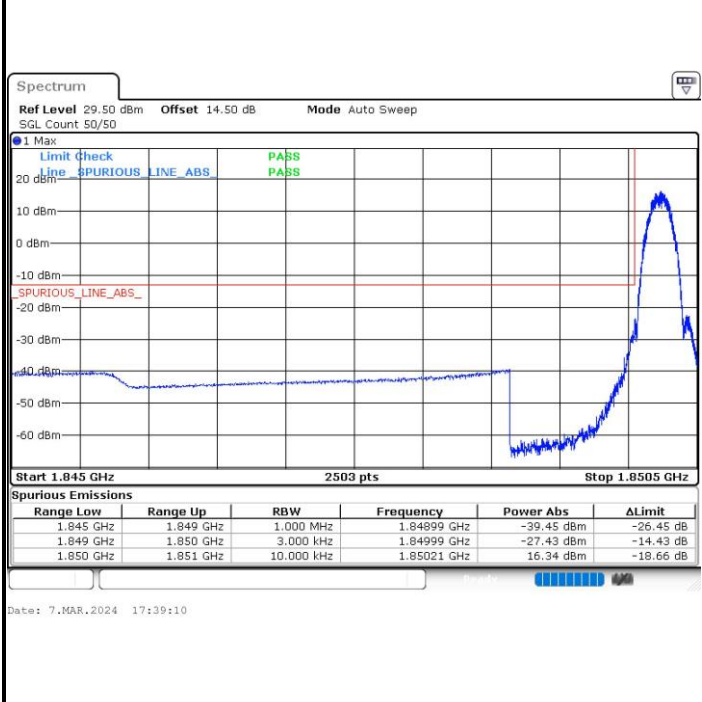


#### Highest Band Edge

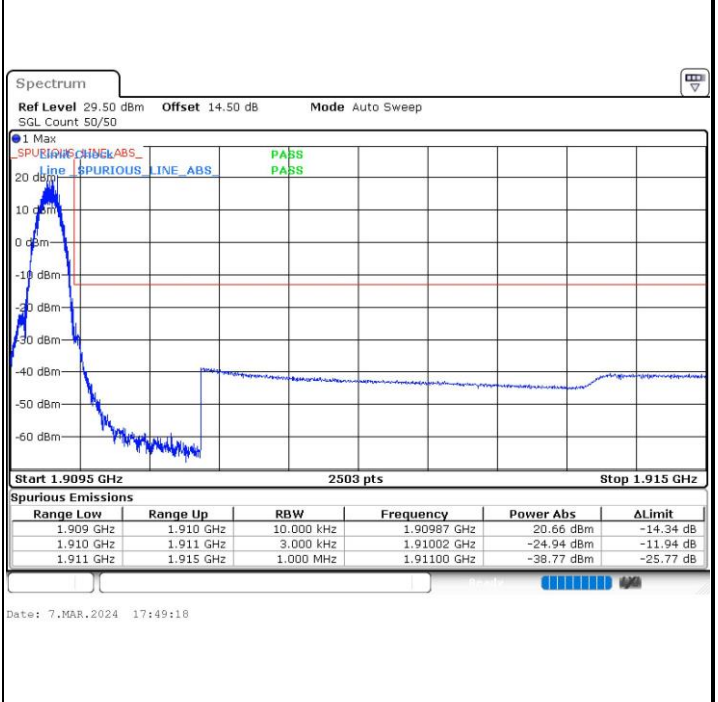


### GSM1900 (EDGE class 8)

#### Lowest Band Edge



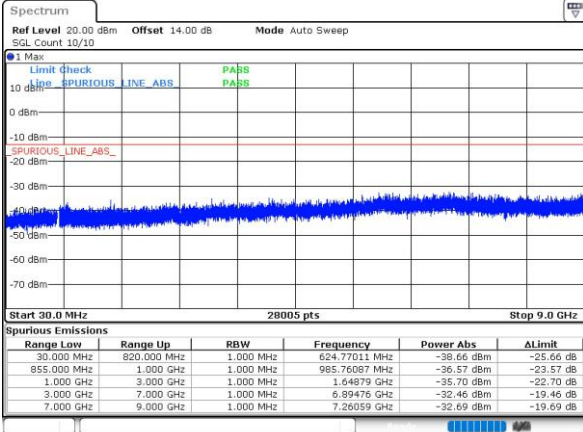
#### Highest Band Edge



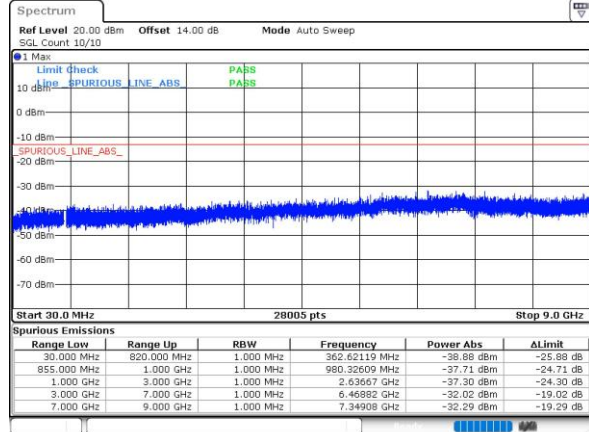


# Conducted Spurious Emission

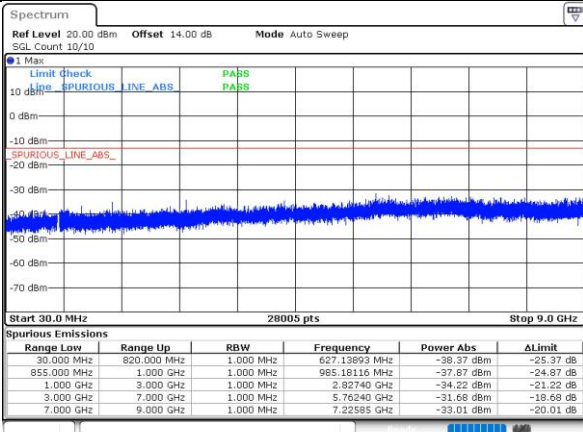
## GSM850 (GSM) Lowest Channel



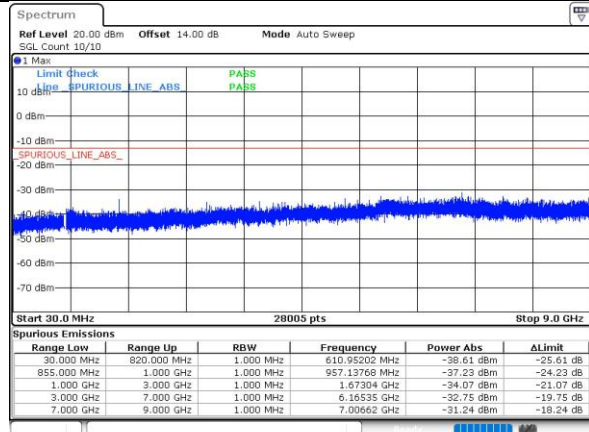
## GSM850 (EDGE class 8) Lowest Channel



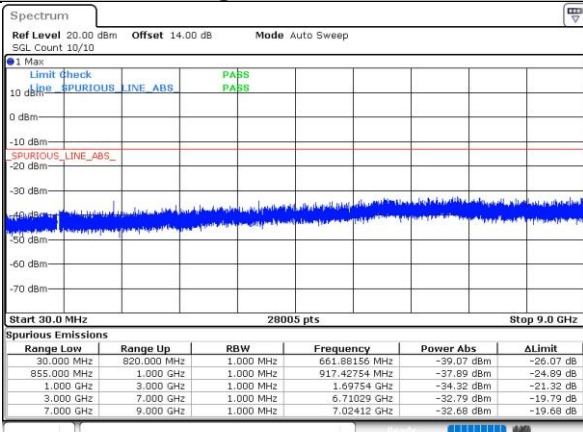
## Middle Channel



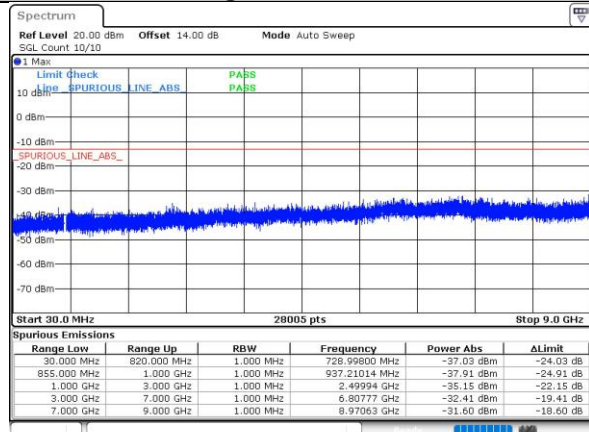
## Middle Channel



## Highest Channel



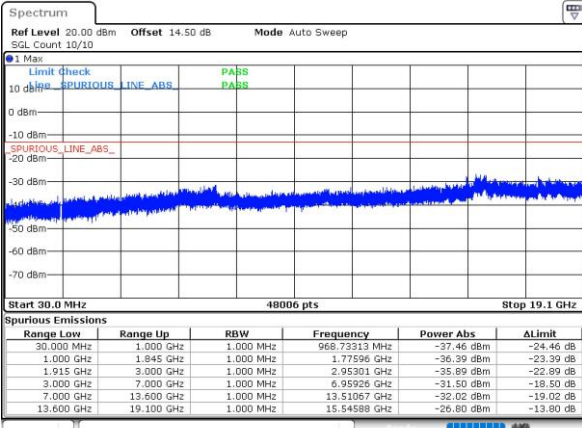
## Highest Channel





GSM1900 (GSM)

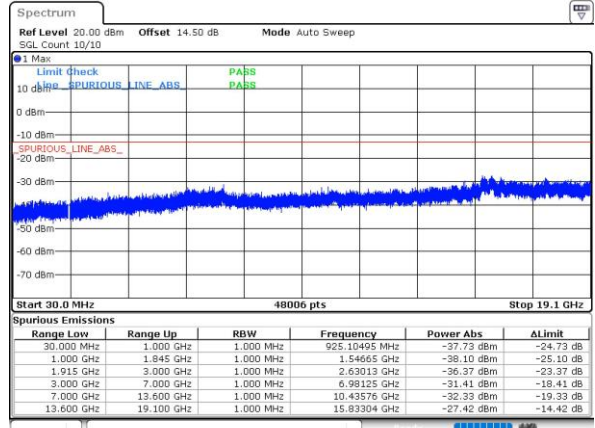
Lowest Channel



Date: 7\_MAR.2024 18:36:51

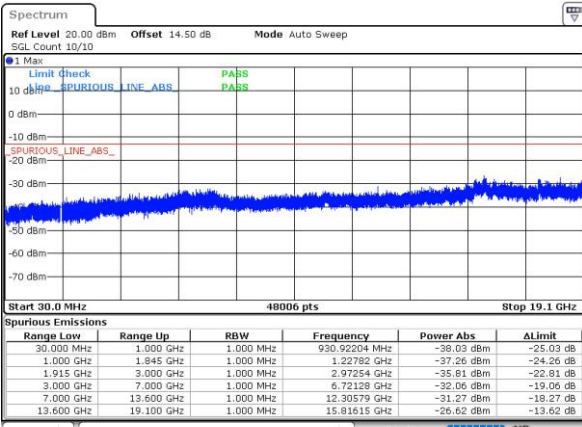
GSM1900 (EDGE class 8)

Lowest Channel



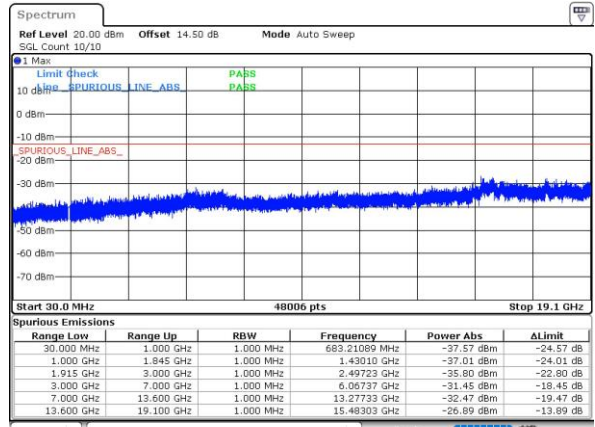
Date: 7\_MAR.2024 17:37:26

Middle Channel



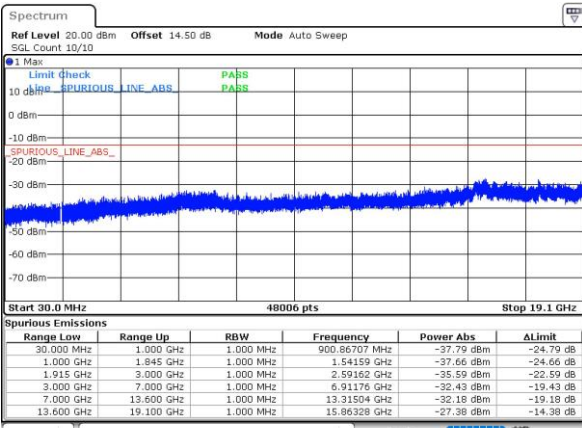
Date: 7\_MAR.2024 18:29:59

Middle Channel



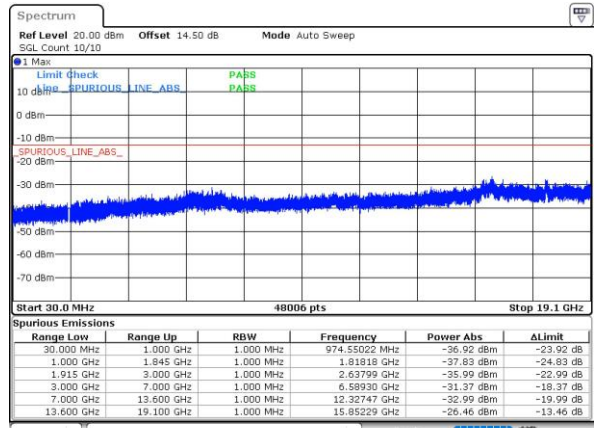
Date: 7\_MAR.2024 17:44:17

Highest Channel



Date: 7\_MAR.2024 18:43:56

Highest Channel



Date: 7\_MAR.2024 17:49:52



**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	0.0049	0.0024	PASS
40	Normal Voltage	0.0037	0.0024	
30	Normal Voltage	0.0099	0.0017	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0072	0.0081	
0	Normal Voltage	0.0073	0.0093	
-10	Normal Voltage	0.0084	0.0022	
-20	Normal Voltage	0.0013	0.0021	
-30	Normal Voltage	0.0019	0.0023	
20	Maximum Voltage	0.0023	0.0025	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0093	0.0002	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0012	0.0029	PASS
40	Normal Voltage	0.0007	0.0032	
30	Normal Voltage	0.0006	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0009	0.0032	
0	Normal Voltage	0.0005	0.0027	
-10	Normal Voltage	0.0011	0.0013	
-20	Normal Voltage	0.0059	0.0008	
-30	Normal Voltage	0.0000	0.0003	
20	Maximum Voltage	0.0002	0.0013	
20	Normal Voltage	0.0004	0.0000	
20	Battery End Point	0.0003	0.0029	

**Note:**

1. Normal Voltage = 3.89V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.48 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.





## A2. WCDMA

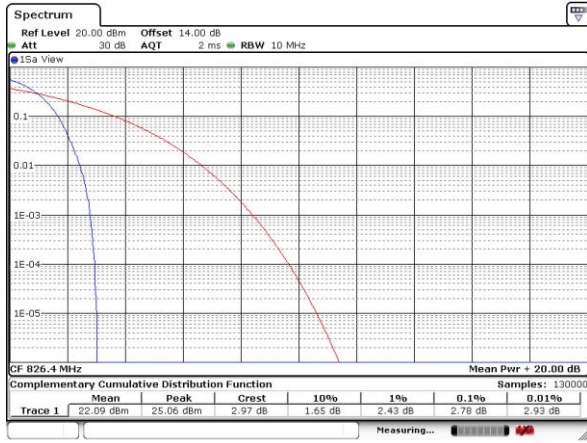
### Peak-to-Average Ratio

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	2.78	3.36	3.22	<b>PASS</b>
Middle CH	2.90	3.30	2.99	
Highest CH	3.04	3.42	3.28	



WCDMA Band V (RMC 12.2Kbps)

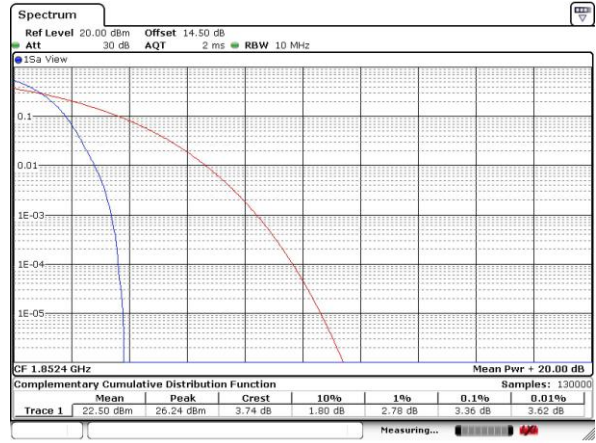
Lowest Channel



Date: 7\_MAR.2024 14:35:53

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



Date: 7\_MAR.2024 13:54:27

Middle Channel



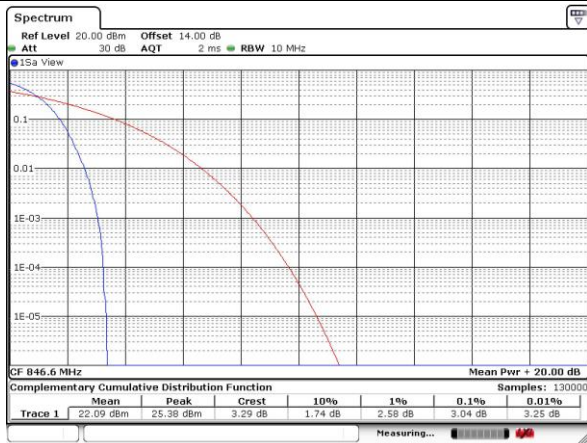
Date: 7\_MAR.2024 14:37:22

Middle Channel



Date: 7\_MAR.2024 13:57:56

Highest Channel

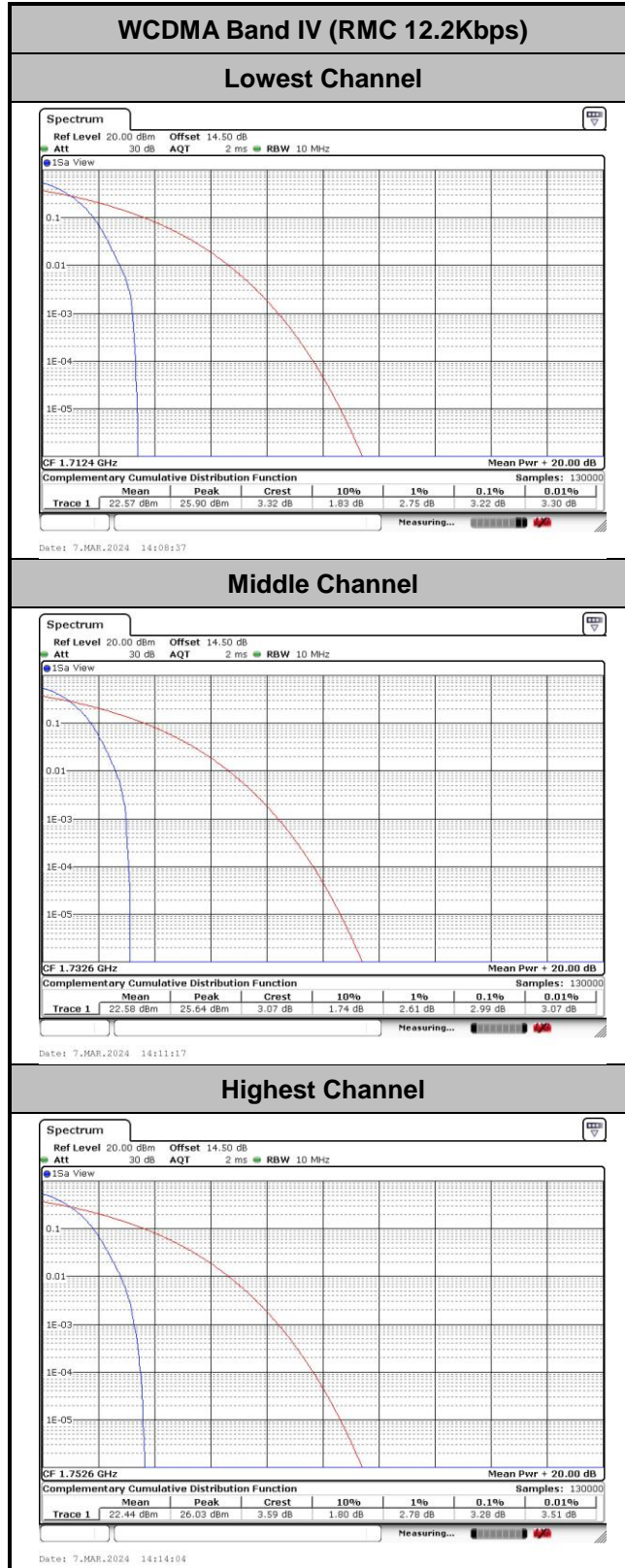


Date: 7\_MAR.2024 14:39:22

Highest Channel



Date: 7\_MAR.2024 14:04:32





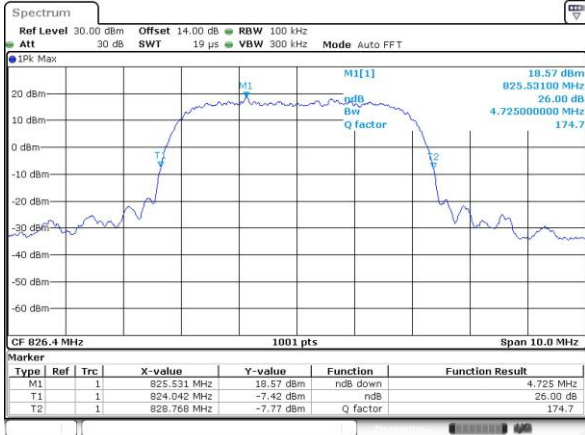
**26dB Bandwidth**

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	4.73	4.71	4.72
Middle CH	4.73	4.72	4.73
Highest CH	4.72	4.71	4.72



WCDMA Band V (RMC 12.2Kbps)

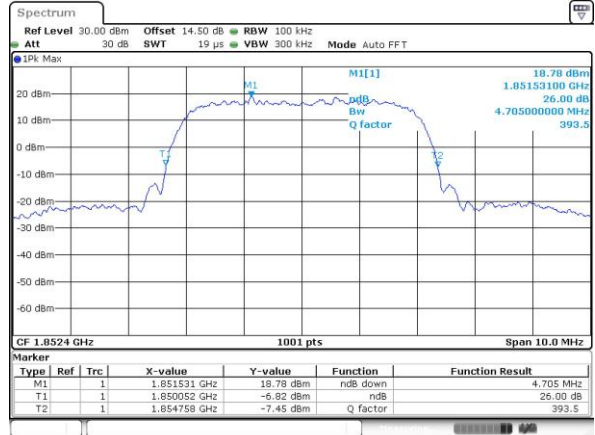
Lowest Channel



Date: 7\_MAR.2024 14:33:38

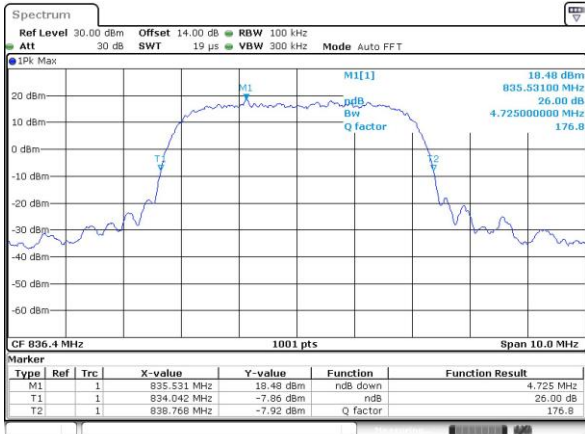
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



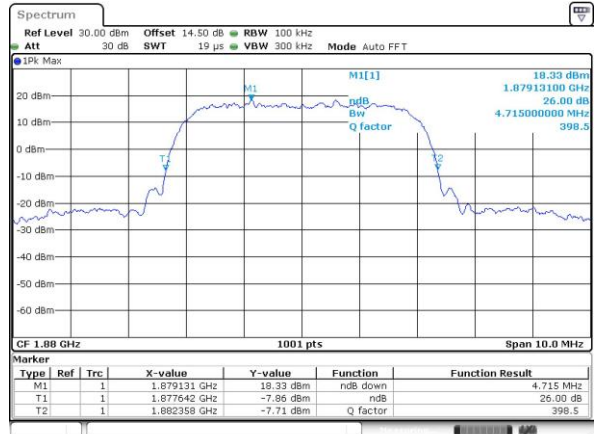
Date: 7\_MAR.2024 14:28:28

Middle Channel



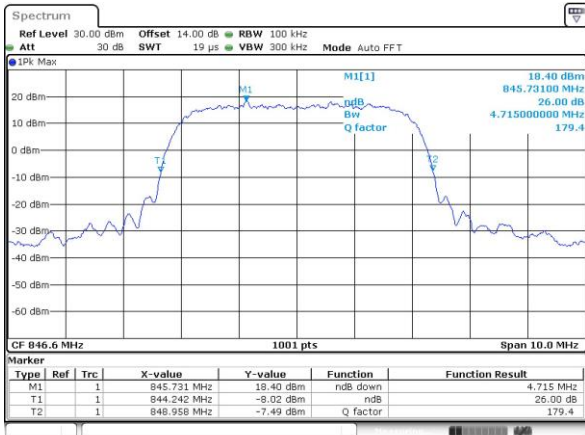
Date: 7\_MAR.2024 14:36:16

Middle Channel



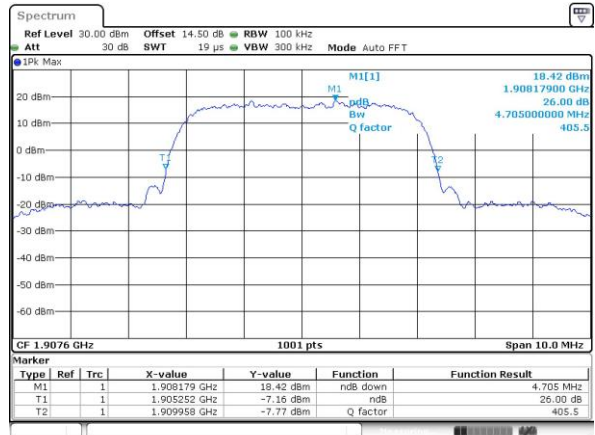
Date: 7\_MAR.2024 14:30:39

Highest Channel



Date: 7\_MAR.2024 14:38:22

Highest Channel

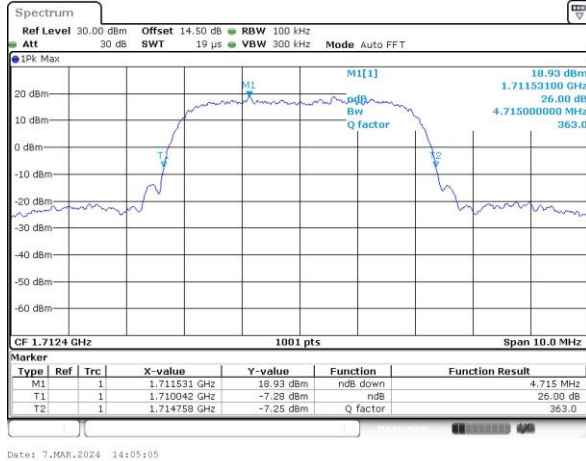


Date: 7\_MAR.2024 14:31:10



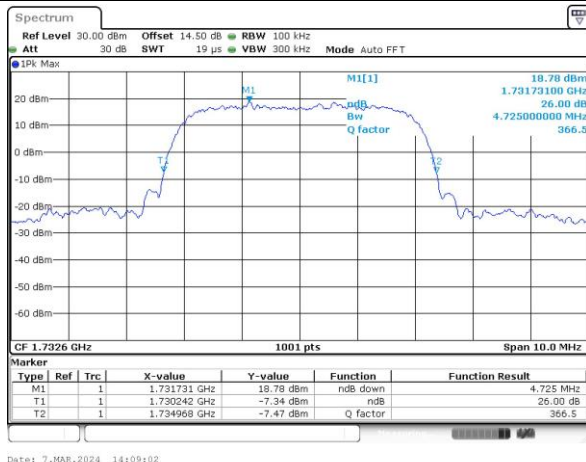
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



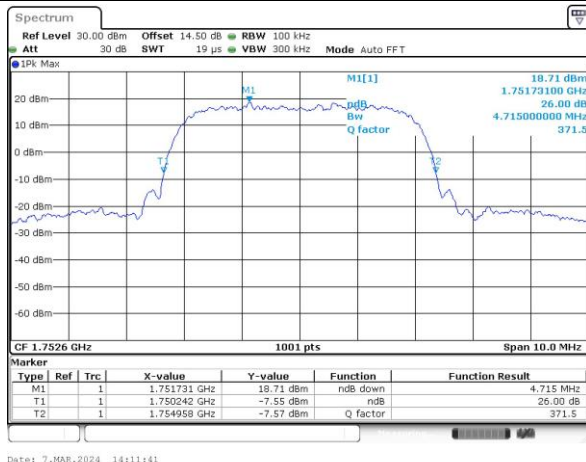
Date: 7\_MAR\_2024 14:05:05

#### Middle Channel



Date: 7\_MAR\_2024 14:09:02

#### Highest Channel



Date: 7\_MAR\_2024 14:11:41



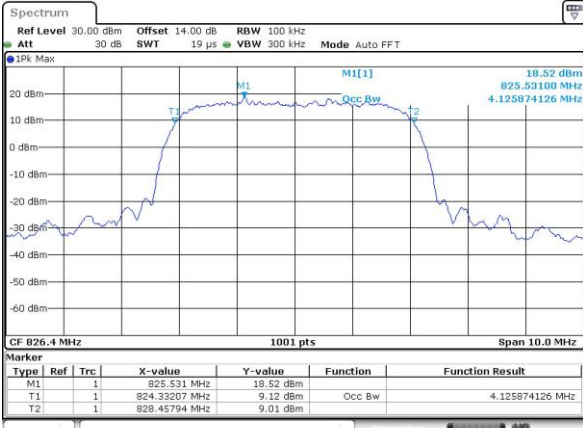
### Occupied Bandwidth

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	4.13	4.15	4.14
Middle CH	4.13	4.14	4.15
Highest CH	4.14	4.14	4.15



WCDMA Band V (RMC 12.2Kbps)

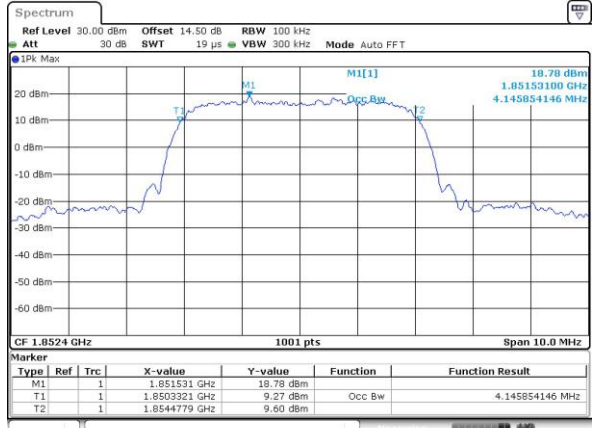
Lowest Channel



Date: 7\_MAR.2024 14:33:59

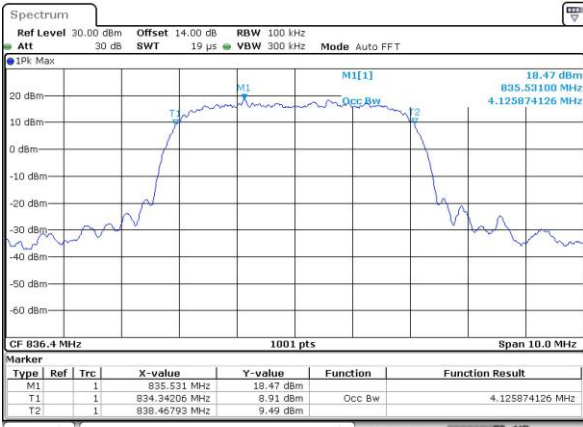
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



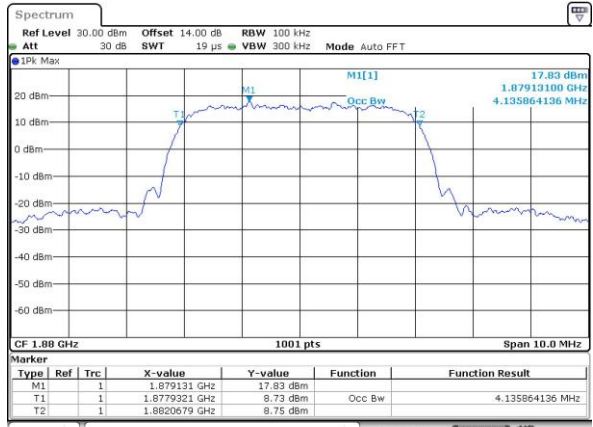
Date: 7\_MAR.2024 13:10:19

Middle Channel



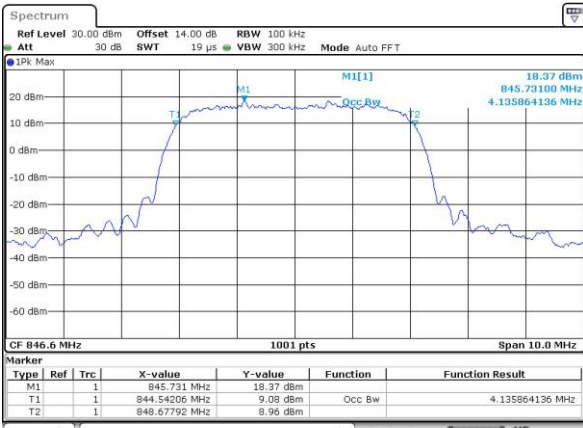
Date: 7\_MAR.2024 14:37:40

Middle Channel



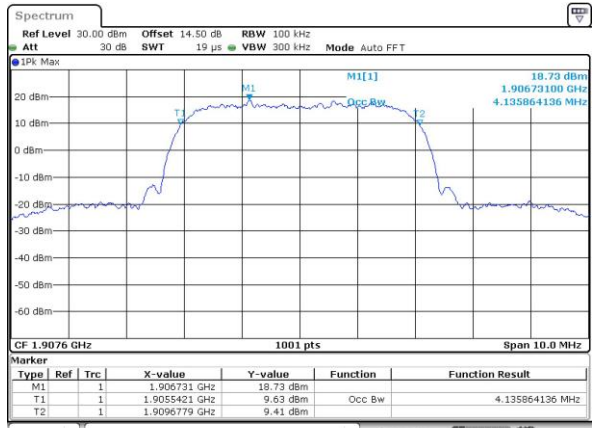
Date: 7\_MAR.2024 14:40:26

Highest Channel



Date: 7\_MAR.2024 14:38:55

Highest Channel



Date: 7\_MAR.2024 13:59:31