FCC RF Test Report

APPLICANT	:	Datalogic S.r.l.
EQUIPMENT	:	MOBILE COMPUTER/BARCODE READER
BRAND NAME	:	DATALOGIC
MODEL NAME	:	CMFQNR
FCC ID	:	U4G-CMFQNR
STANDARD	:	47 CFR Part 22(H), 24(E), 27(L)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	Feb. 23, 2026 ~ Feb. 25, 2026

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.

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

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**
SUMMARY OF TEST RESULT **4**
1 GENERAL DESCRIPTION **5**
1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 6
1.6 Maximum ERP/EIRP Power, and Emission Designator 6
1.7 Testing Location 7
1.8 Test Software 7
1.9 Applicable Standards 7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **8**
2.1 Test Mode 8
2.2 Connection Diagram of Test System 8
2.3 Support Unit used in test configuration 9
2.4 Measurement Results Explanation Example 9
2.5 Frequency List of Low/Middle/High Channels 9
3 CONDUCTED TEST RESULT **10**
3.1 Measuring Instruments 10
3.2 Test Setup 10
3.3 Test Result of Conducted Test 10
3.4 Conducted Output Power and ERP/EIRP 11
3.5 Peak-to-Average Ratio 12
3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement 13
3.7 Conducted Band Edge 14
3.8 Conducted Spurious Emission 15
3.9 Frequency Stability 16
4 RADIATED TEST ITEMS **17**
4.1 Measuring Instruments 17
4.2 Test Setup 17
4.3 Test Result of Radiated Test 18
4.4 Field Strength of Spurious Radiation Measurement 19
5 LIST OF MEASURING EQUIPMENT **20**
6 MEASUREMENT UNCERTAINTY **21**
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG5O1601A	Rev. 01	Initial issue of report	Apr. 03, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	PASS	-
	§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	-	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 24.40 dB at 2480.00 MHz

Conformity Assessment Condition:

1. 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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. 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

Datalogic S.r.l.
Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.2 Manufacturer

Datalogic S.r.l.
Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MOBILE COMPUTER/BARCODE READER
Brand Name	DATALOGIC
Model Name	CMFQNR
FCC ID	U4G-CMFQNR
IMEI Code	Conducted: 359314820000893/359314820000901 Radiation: 359314820003731/359314820003749
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	**WCDMA:** Band V: 824 MHz ~ 849 MHz Band II: 1850 MHz ~ 1910 MHz Band IV: 1710 MHz ~ 1755 MHz
Rx Frequency	**WCDMA:** Band V: 869 MHz ~ 894 MHz Band II: 1930 MHz ~ 1990 MHz Band IV: 2110 MHz ~ 2155 MHz
Maximum Output Power to Antenna	**WCDMA:** Band V: 23.25 dBm Band II: 23.15 dBm Band IV: 23.01 dBm
Antenna Type	LDS Antenna
Antenna Gain	Cellular Band: -3.1 dBi PCS Band: -0.6 dBi AWS Band: -0.7 dBi
Type of Modulation	WCDMA: BPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+ : 16QAM (Uplink)

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	WCDMA Band V	826.4 ~ 846.6	BPSK	0.0631	4M14F9W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.1799	4M15F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.1702	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.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	Part2224_Ver5.0 200330	5.0
2.	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 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.

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:

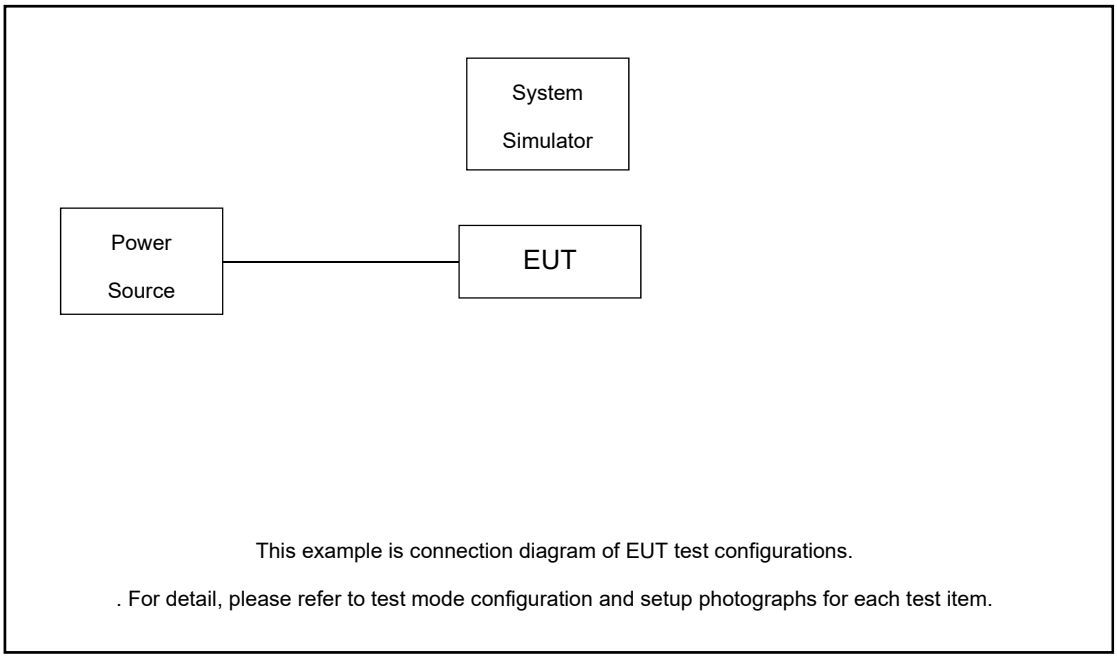
1. 30 MHz to 9000 MHz for WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19100 MHz for WCDMA Band II.

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**
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

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.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 5.4 dB and a 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5.4 + 10 = 15.4 (dB)

2.5 Frequency List of Low/Middle/High Channels

Frequency List				
Band	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
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

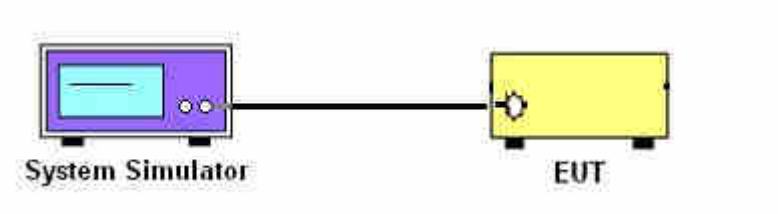
3 Conducted Test Result

3.1 Measuring Instruments

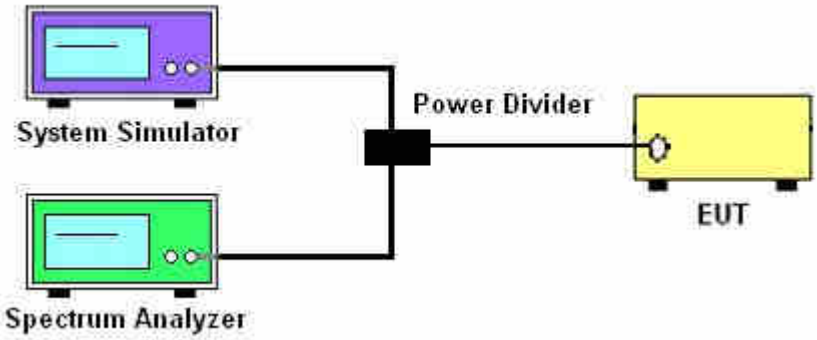
See list of measuring instruments of this test report.

3.2 Test Setup

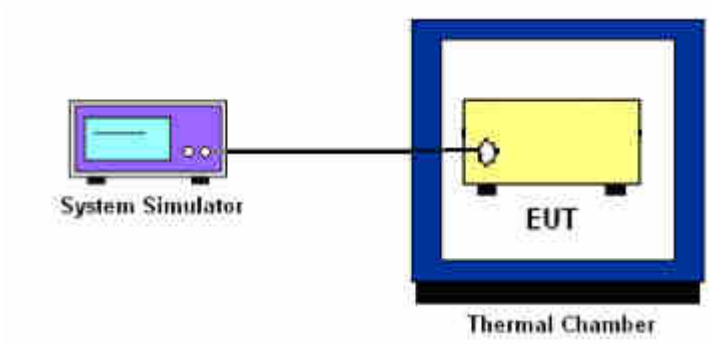
3.2.1 Conducted Output Power



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 + 10log(P) dB below the transmitter power P(Watts)

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows 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 RF cable and power divider. The path loss was compensated to the results for each measurement.
   Path Loss Factor = Cable + Power Divider, Where the cable and power divider are the total path loss for the system calibration.
4. The low/middle/high 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 + 10log(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 ±0.00025% (±2.5ppm) 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°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 step 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 ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°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.

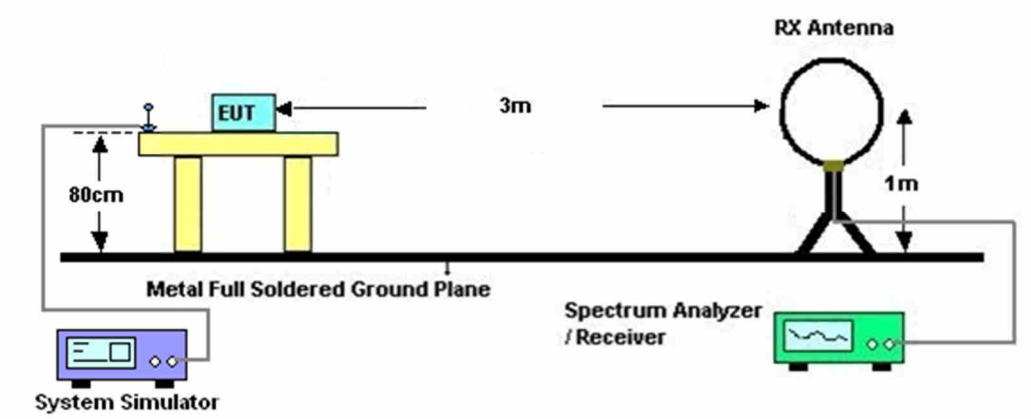
4 Radiated Test Items

4.1 Measuring Instruments

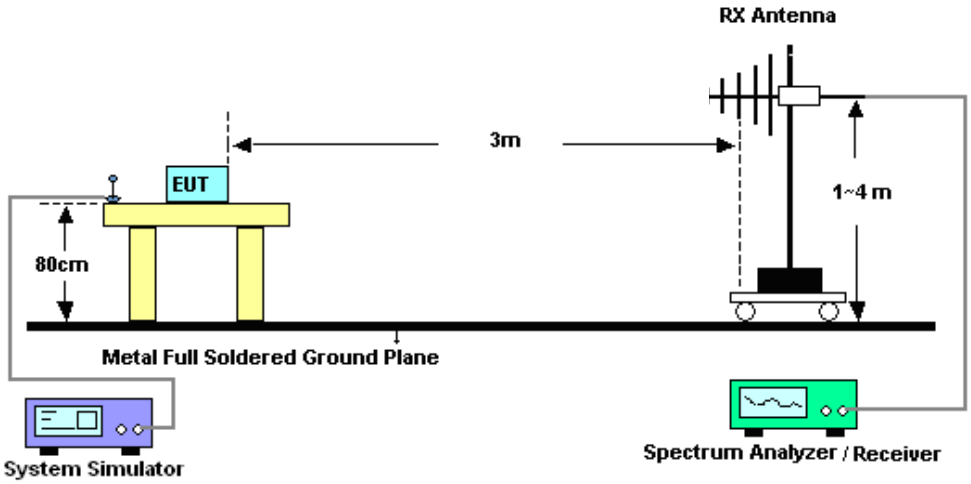
See list of measuring instruments of this test report.

4.2 Test Setup

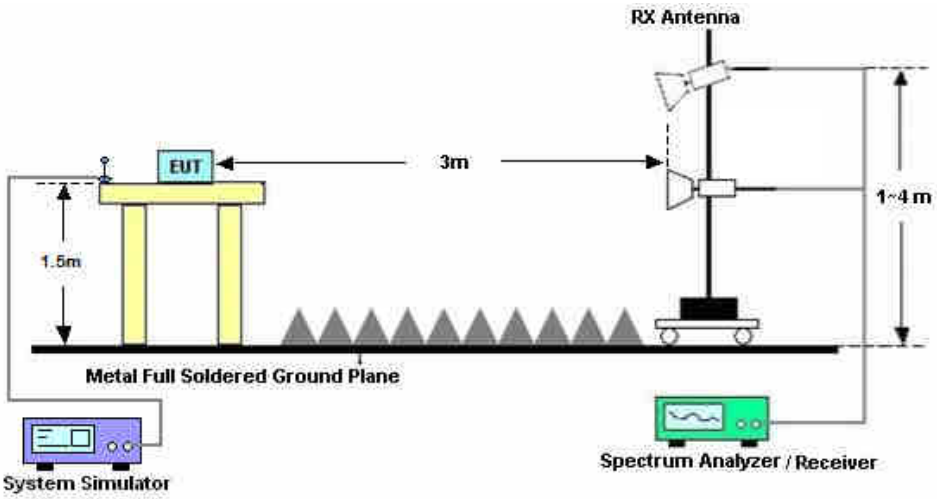
4.2.1 For radiated test below 30MHz



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 (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 + 10log(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
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 10, 2025	Feb. 23, 2026~ Feb. 25, 2026	Oct. 09, 2026	Radiation (03CH04-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Feb. 23, 2026~ Feb. 25, 2026	Aug. 09, 2026	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 22, 2025	Feb. 23, 2026~ Feb. 25, 2026	Nov. 21, 2026	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 22, 2025	Feb. 23, 2026~ Feb. 25, 2026	Aug. 21, 2026	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 10, 2026	Feb. 23, 2026~ Feb. 25, 2026	Jan. 09, 2027	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 02, 2025	Feb. 23, 2026~ Feb. 25, 2026	Jul. 01, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Dec. 24, 2025	Feb. 23, 2026~ Feb. 25, 2026	Dec. 23, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060890	1Ghz-18Ghz	May 23, 2025	Feb. 23, 2026~ Feb. 25, 2026	May 22, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2025	Feb. 23, 2026~ Feb. 25, 2026	Oct. 10, 2026	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Feb. 23, 2026~ Feb. 25, 2026	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 23, 2026~ Feb. 25, 2026	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 23, 2026~ Feb. 25, 2026	NCR	Radiation (03CH04-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Feb. 23, 2026~ Feb. 25, 2026	Jul. 06, 2026	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Feb. 23, 2026~ Feb. 25, 2026	NCR	Conducted (TH01-KS)
Temperature & humidity	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 02, 2025	Feb. 23, 2026~ Feb. 25, 2026	Jul. 01, 2026	Conducted (TH01-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

Conducted Spurious Emission & Bandedge	**±2.00 dB**
Occupied Channel Bandwidth	**±0.384%**
Conducted Power	**±0.90 dB**
Peak to Average Ratio	**±0.90 dB**
Frequency Stability	**±0.38 ppm**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.83dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.83dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.82dB**

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power)

WCDMA V

Band		WCDMA V			ERP(W)		
TX Channel		4132	4182	4233			
Rx Channel		4357	4407	4458			
Frequency (MHz)		826.4	836.4	846.6	L	M	H
3GPP Rel 99	RMC 12.2Kbps	23.18	23.25	23.23	0.0621	0.0631	0.0628
3GPP Rel 6	HSDPA Subtest-1	22.23	22.11	22.10	0.0499	0.0485	0.0484
3GPP Rel 6	HSDPA Subtest-2	22.32	22.32	22.17	0.0509	0.0509	0.0492
3GPP Rel 6	HSDPA Subtest-3	21.88	21.92	21.67	0.0460	0.0465	0.0439
3GPP Rel 6	HSDPA Subtest-4	21.70	21.79	21.67	0.0442	0.0451	0.0439
3GPP Rel 6	HSUPA Subtest-1	22.34	22.27	22.03	0.0512	0.0504	0.0476
3GPP Rel 6	HSUPA Subtest-2	20.22	20.25	20.26	0.0314	0.0316	0.0317
3GPP Rel 6	HSUPA Subtest-3	21.35	21.28	21.34	0.0407	0.0401	0.0406
3GPP Rel 6	HSUPA Subtest-4	20.19	20.38	20.20	0.0312	0.0326	0.0313
3GPP Rel 6	HSUPA Subtest-5	22.31	22.18	22.18	0.0508	0.0493	0.0493
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.79	19.66	19.73	0.0284	0.0276	0.0281

WCDMA IV

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	RMC 12.2Kbps	22.93	23.01	22.80	0.1671	0.1702	0.1622
3GPP Rel 6	HSDPA Subtest-1	22.00	21.84	21.85	0.1349	0.1300	0.1303
3GPP Rel 6	HSDPA Subtest-2	22.19	21.95	22.01	0.1409	0.1334	0.1352
3GPP Rel 6	HSDPA Subtest-3	21.71	21.72	21.53	0.1262	0.1265	0.1211
3GPP Rel 6	HSDPA Subtest-4	21.47	21.58	21.35	0.1194	0.1225	0.1161
3GPP Rel 6	HSUPA Subtest-1	22.08	21.85	21.81	0.1374	0.1303	0.1291
3GPP Rel 6	HSUPA Subtest-2	19.99	20.03	20.01	0.0849	0.0857	0.0853
3GPP Rel 6	HSUPA Subtest-3	21.13	20.88	20.96	0.1104	0.1042	0.1062
3GPP Rel 6	HSUPA Subtest-4	20.00	20.20	20.08	0.0851	0.0891	0.0867
3GPP Rel 6	HSUPA Subtest-5	22.04	22.13	22.00	0.1361	0.1390	0.1349
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.52	19.62	19.39	0.0762	0.0780	0.0740

WCDMA II

Band		WCDMA II			EIRP(W)		
TX Channel		9262	9400	9538			
Rx Channel		9662	9800	9938			
Frequency (MHz)		1852.4	1880	1907.6	L	M	H
3GPP Rel 99	RMC 12.2Kbps	23.12	23.15	23.05	0.1786	0.1799	0.1758
3GPP Rel 6	HSDPA Subtest-1	22.20	22.05	22.05	0.1445	0.1396	0.1396
3GPP Rel 6	HSDPA Subtest-2	22.22	22.10	22.11	0.1452	0.1413	0.1416
3GPP Rel 6	HSDPA Subtest-3	21.72	21.71	21.64	0.1294	0.1291	0.1271
3GPP Rel 6	HSDPA Subtest-4	21.60	21.68	21.56	0.1259	0.1282	0.1247
3GPP Rel 6	HSUPA Subtest-1	22.23	22.05	22.02	0.1455	0.1396	0.1387
3GPP Rel 6	HSUPA Subtest-2	20.04	20.13	20.14	0.0879	0.0897	0.0899
3GPP Rel 6	HSUPA Subtest-3	21.15	21.07	21.15	0.1135	0.1114	0.1135
3GPP Rel 6	HSUPA Subtest-4	20.08	20.27	20.17	0.0887	0.0927	0.0906
3GPP Rel 6	HSUPA Subtest-5	22.13	22.13	22.06	0.1422	0.1422	0.1400
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.62	19.67	19.58	0.0798	0.0807	0.0791

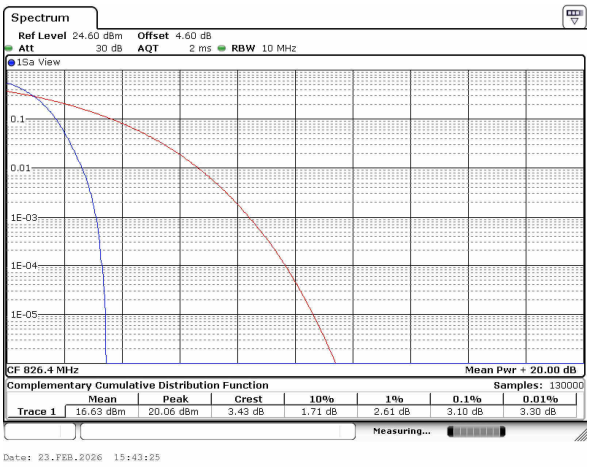
A2. WCDMA

Peak-to-Average Ratio

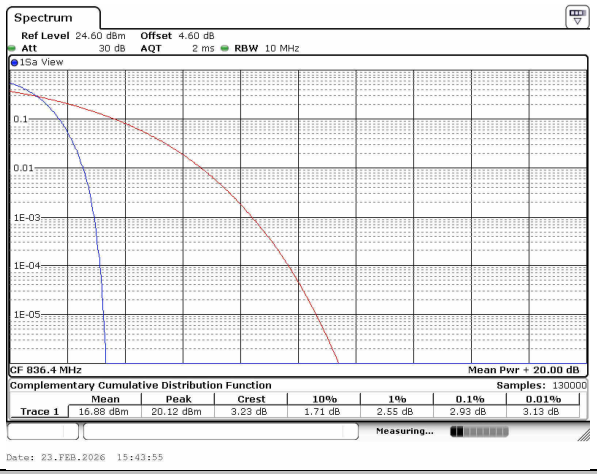
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.10	3.19	3.22	PASS
Middle CH	2.93	3.25	3.22	
Highest CH	3.10	3.19	3.19	

WCDMA Band V (RMC 12.2Kbps)

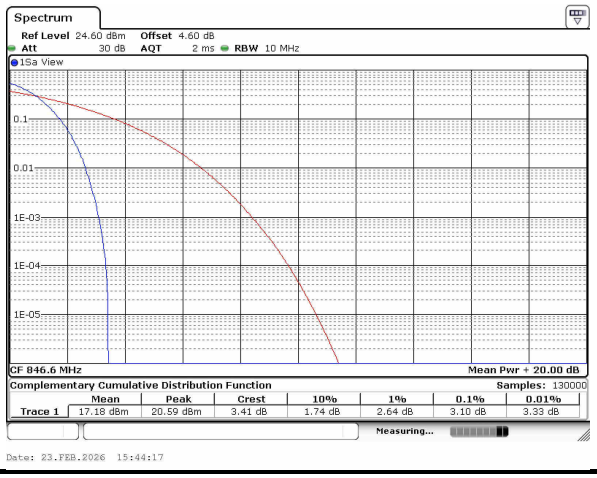
Lowest Channel



Middle Channel

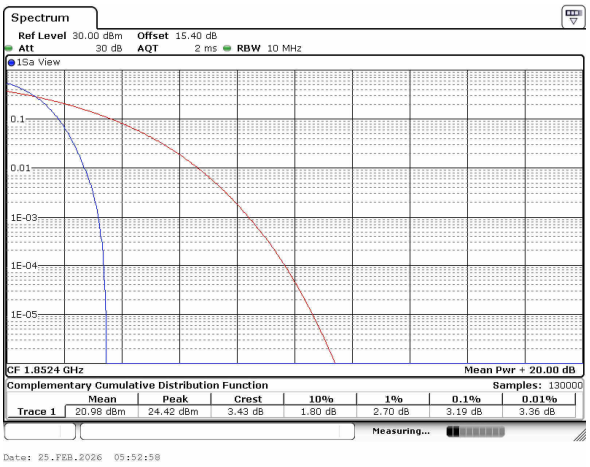


Highest Channel

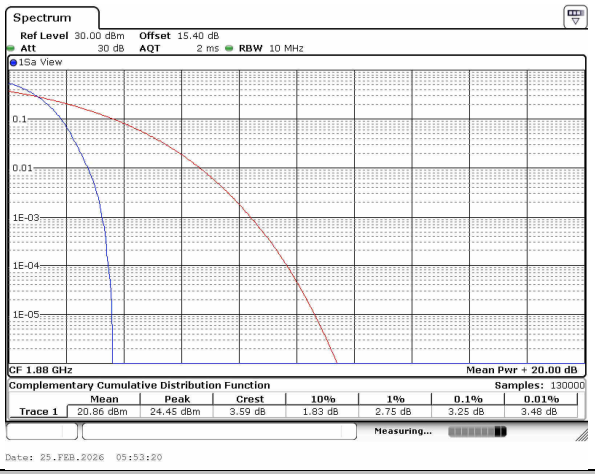


WCDMA Band II (RMC 12.2Kbps)

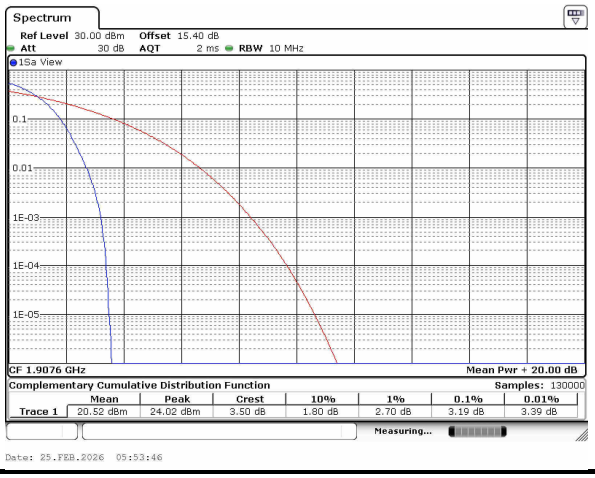
Lowest Channel



Middle Channel

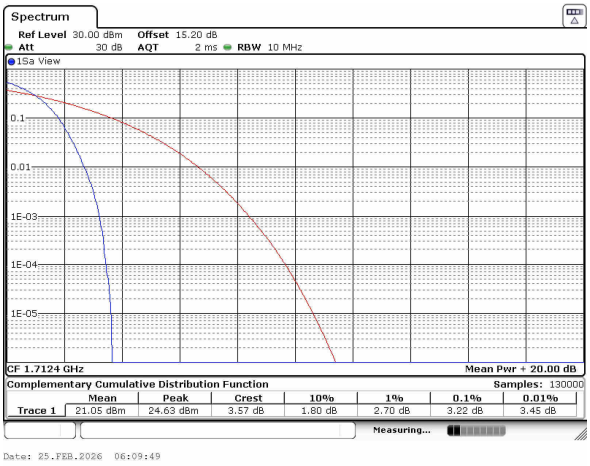


Highest Channel

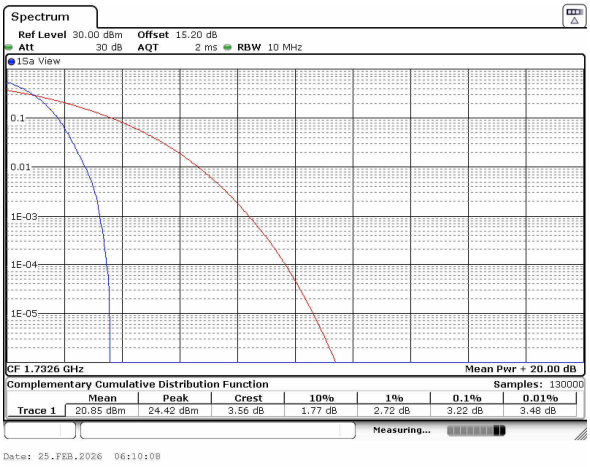


WCDMA Band IV (RMC 12.2Kbps)

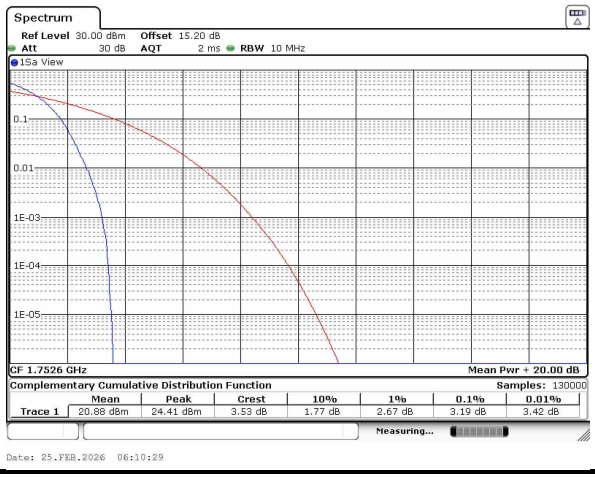
Lowest Channel



Middle Channel



Highest Channel

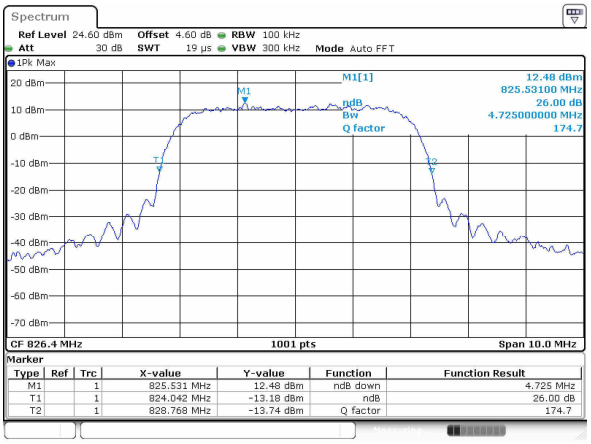


26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.725MHz	4.725MHz	4.715MHz
Middle CH	4.725MHz	4.715MHz	4.715MHz
Highest CH	4.695MHz	4.715MHz	4.725MHz

WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

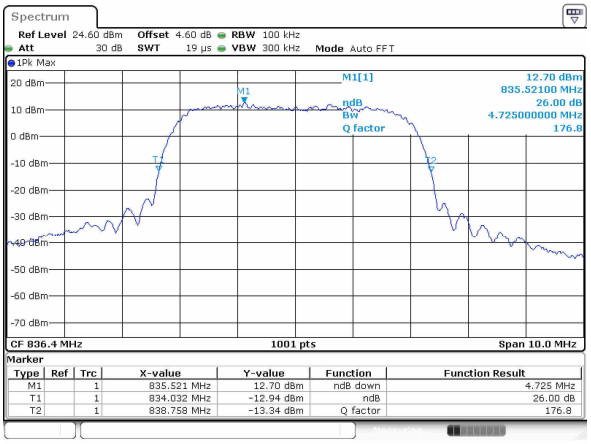


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	825.531 MHz	12.48 dBm	ndB down	4.725 MHz
T1		1	824.042 MHz	-13.18 dBm	ndB	26.00 dB
T2		1	828.768 MHz	-13.74 dBm	Q factor	174.7

Date: 23.FEB.2026 15:28:35

Middle Channl

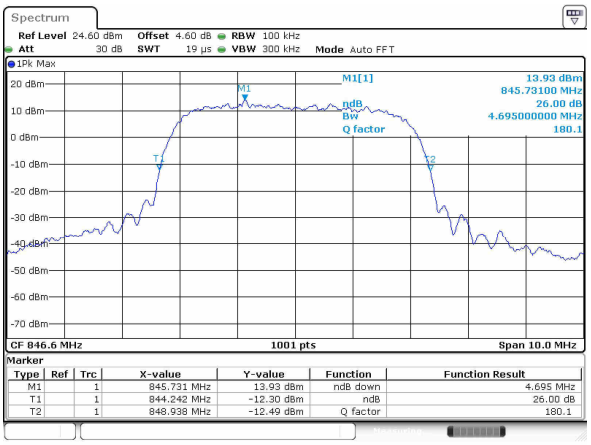


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	835.521 MHz	12.70 dBm	ndB down	4.725 MHz
T1		1	834.032 MHz	-12.94 dBm	ndB	26.00 dB
T2		1	838.758 MHz	-13.34 dBm	Q factor	176.8

Date: 23.FEB.2026 15:29:02

Highest Channel



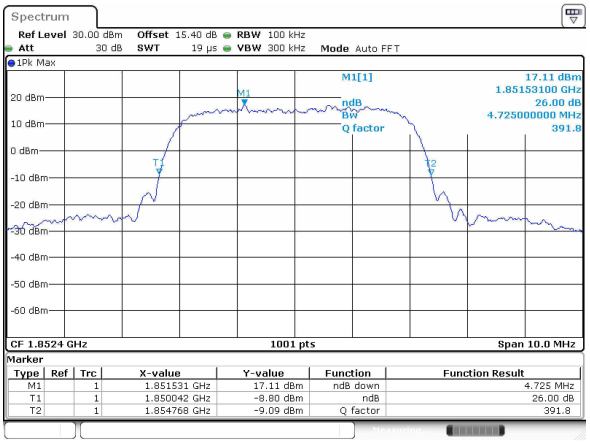
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	845.731 MHz	13.93 dBm	ndB down	4.695 MHz
T1		1	844.242 MHz	-12.30 dBm	ndB	26.00 dB
T2		1	848.938 MHz	-12.49 dBm	Q factor	180.1

Date: 23.FEB.2026 15:29:30

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

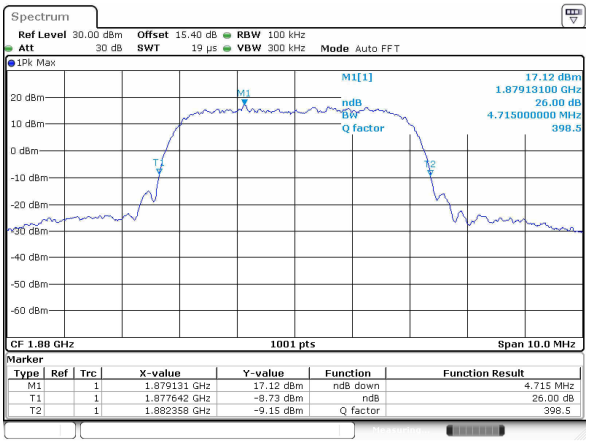


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.851531 GHz	17.11 dBm	ndB down	4.725 MHz
T1		1	1.850042 GHz	-8.80 dBm	ndB	26.00 dB
T2		1	1.854768 GHz	-9.09 dBm	Q factor	391.8

Date: 25.FEB.2026 05:42:06

Middle Channel

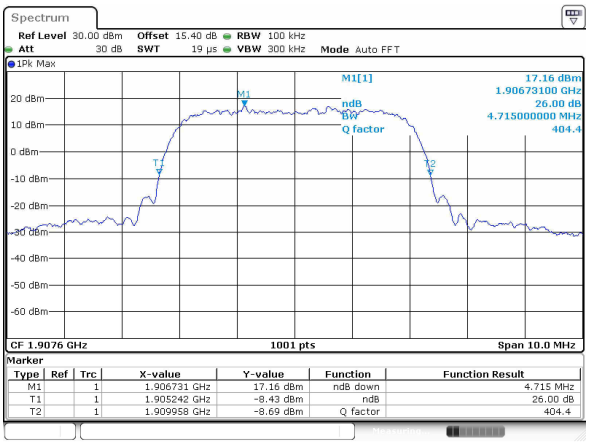


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.879131 GHz	17.12 dBm	ndB down	4.715 MHz
T1		1	1.877642 GHz	-8.73 dBm	ndB	26.00 dB
T2		1	1.882358 GHz	-9.15 dBm	Q factor	398.5

Date: 25.FEB.2026 05:42:40

Highest Channel



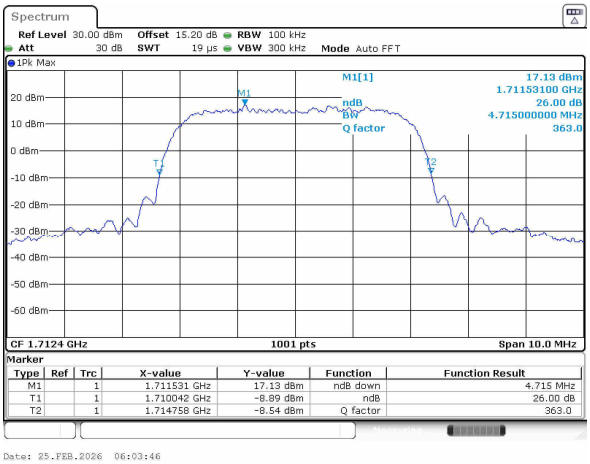
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.906731 GHz	17.16 dBm	ndB down	4.715 MHz
T1		1	1.905242 GHz	-8.43 dBm	ndB	26.00 dB
T2		1	1.909958 GHz	-8.69 dBm	Q factor	404.4

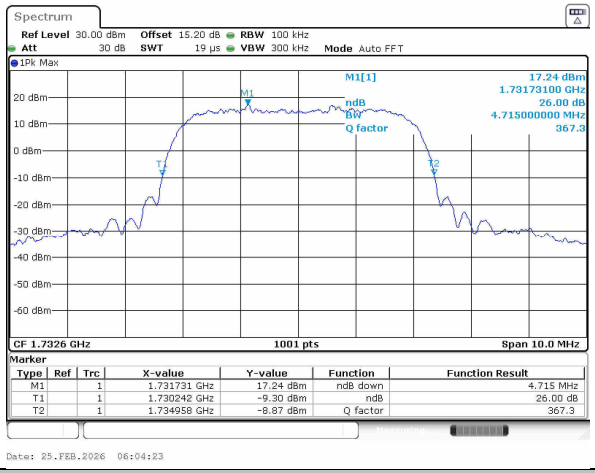
Date: 25.FEB.2026 05:43:08

WCDMA Band IV (RMC 12.2Kbps)

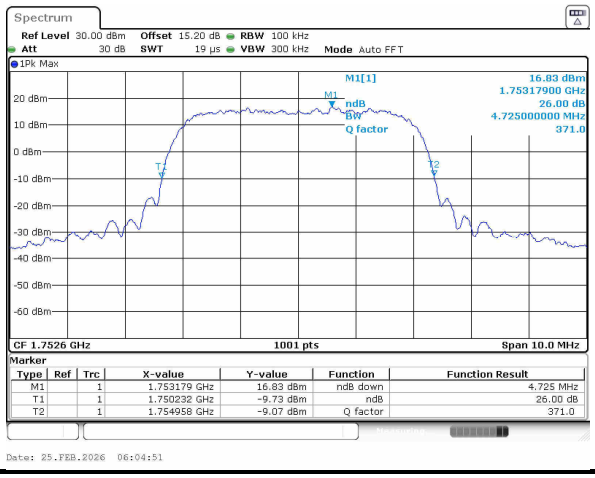
Lowest Channel



Middle Channel



Highest Channel

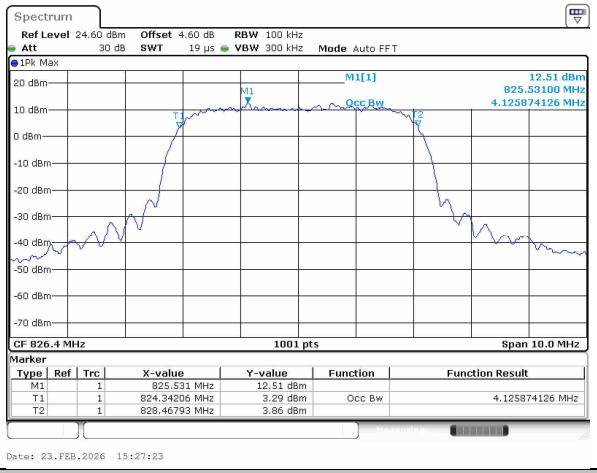


Occupied Bandwidth

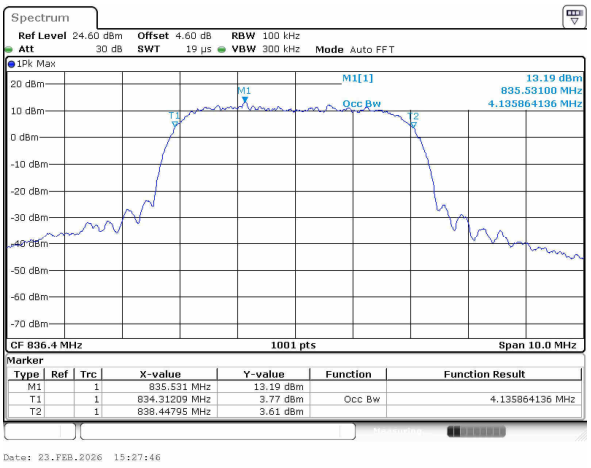
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.126MHz	4.136MHz	4.146MHz
Middle CH	4.136MHz	4.146MHz	4.136MHz
Highest CH	4.096MHz	4.146MHz	4.136MHz

WCDMA Band V (RMC 12.2Kbps)

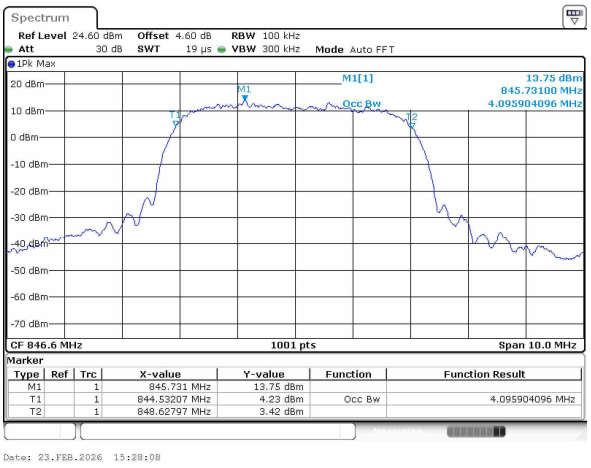
Lowest Channel



Middle Channel

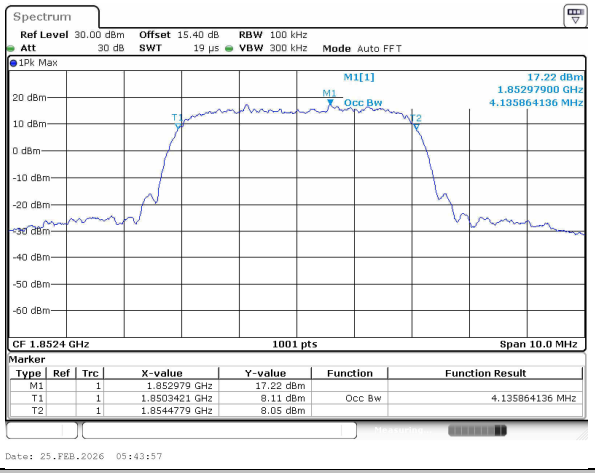


Highest Channel

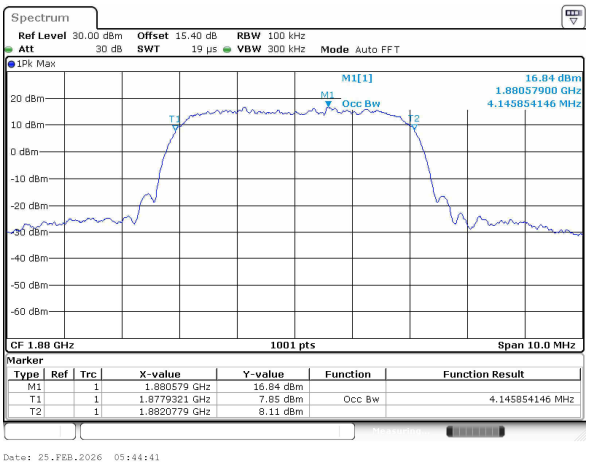


WCDMA Band II (RMC 12.2Kbps)

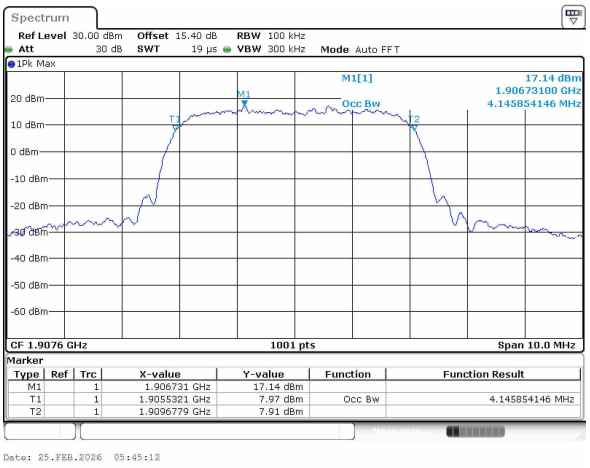
Lowest Channel



Middle Channel

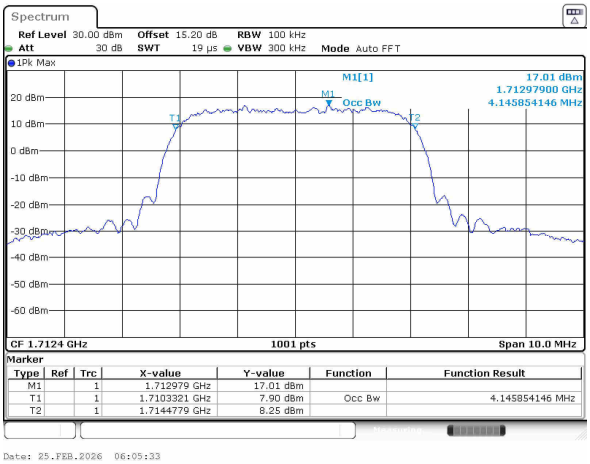


Highest Channel

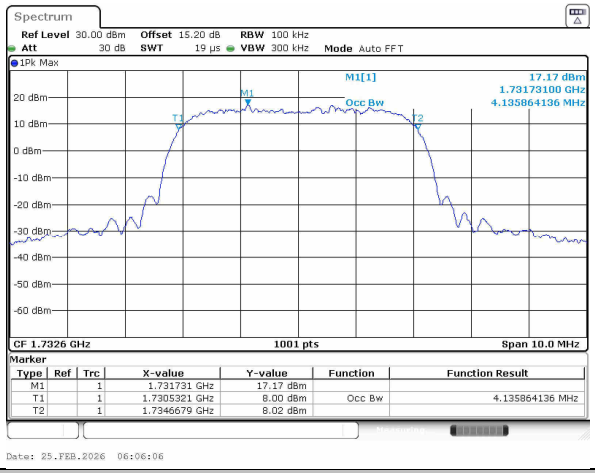


WCDMA Band IV (RMC 12.2Kbps)

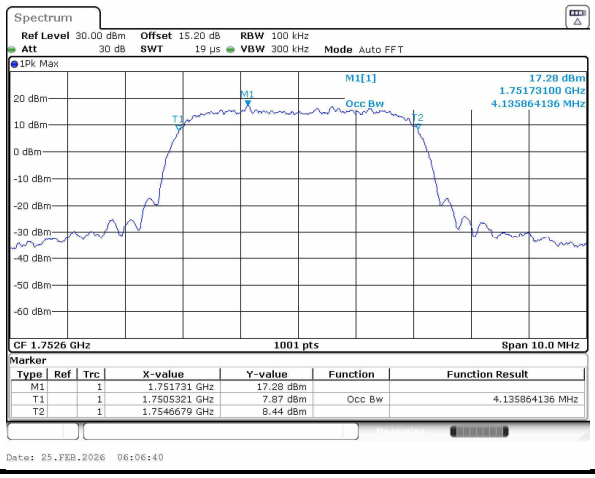
Lowest Channel



Middle Channel



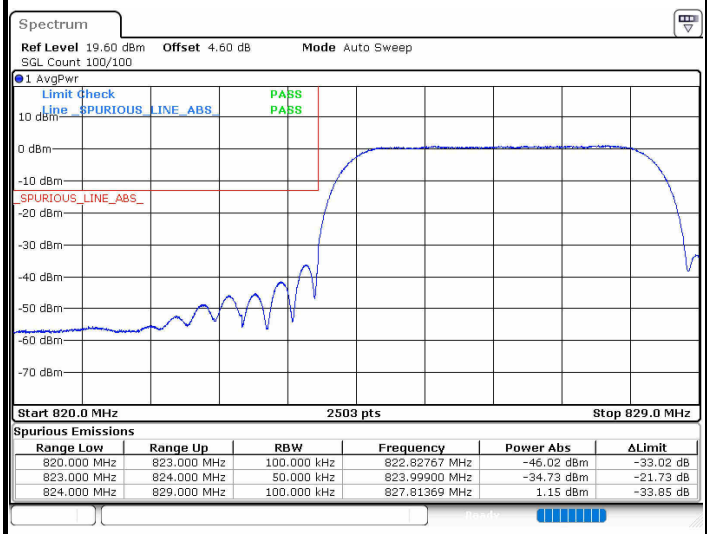
Highest Channel



Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

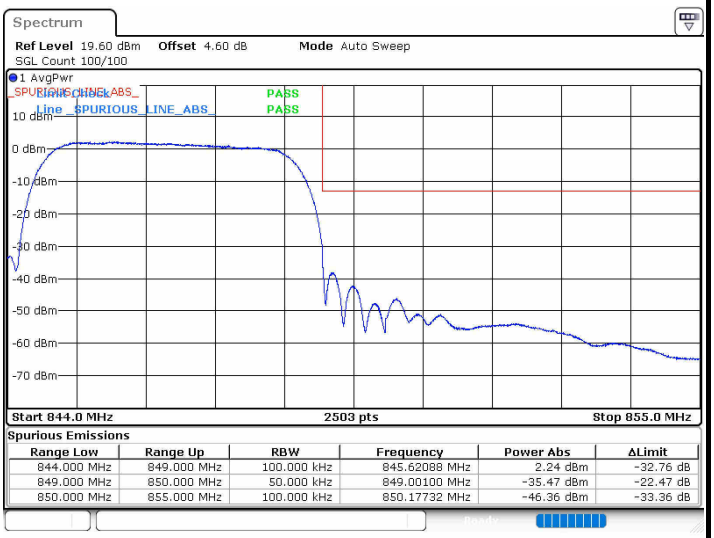


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.82767 MHz	-46.02 dBm	-33.02 dB
823.000 MHz	824.000 MHz	50.000 kHz	823.99900 MHz	-34.73 dBm	-21.73 dB
824.000 MHz	829.000 MHz	100.000 kHz	827.81369 MHz	1.15 dBm	-33.85 dB

Date: 23.FEB.2026 15:31:36

Highest Band Edge



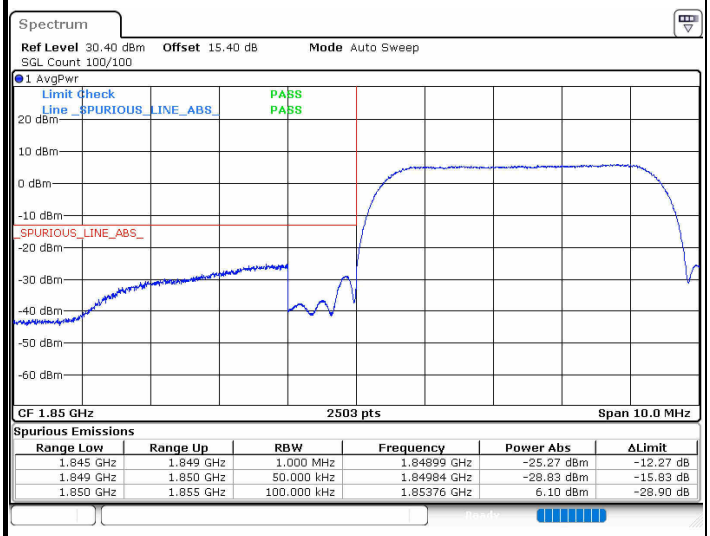
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
844.000 MHz	849.000 MHz	100.000 kHz	845.62088 MHz	2.24 dBm	-32.76 dB
849.000 MHz	850.000 MHz	50.000 kHz	849.00100 MHz	-35.47 dBm	-22.47 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.17732 MHz	-46.36 dBm	-33.36 dB

Date: 23.FEB.2026 15:33:27

CDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

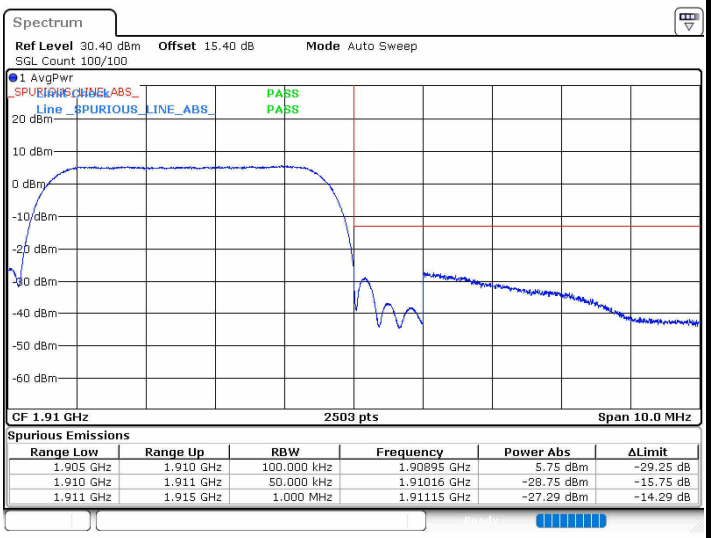


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-25.27 dBm	-12.27 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.84984 GHz	-28.83 dBm	-15.83 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85376 GHz	6.10 dBm	-28.90 dB

Date: 25.FEB.2026 05:46:23

Highest Band Edge



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90895 GHz	5.75 dBm	-29.25 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91016 GHz	-28.75 dBm	-15.75 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91115 GHz	-27.29 dBm	-14.29 dB

Date: 25.FEB.2026 05:50:34