

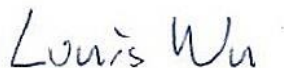


FCC RADIO TEST REPORT

FCC ID : WIYS1F4CT001
Equipment : POS Terminal
Brand Name :  CASTLES TECHNOLOGY
Model Name : S1F4CT
Applicant : CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)
Manufacturer : CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,
NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Jul. 29, 2026 and testing was performed from Aug. 13, 2026 to Aug. 22, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG660205A	01	Initial issue of report	Sep. 03, 2026
FG660205A	02	Revise add the antenna gain information in Section 1.1.and Appendix A2 This report is an update version, replacing the report issued on Sep. 03, 2026.	Oct. 15, 2026
FG660205A	03	update the antenna gain to -1.11 dBi for Band 4 in Appendix A1 This report is an update version, replacing the report issued on Oct. 15, 2026.	Oct. 20, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	Pass	-

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/manufacture 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.

Reviewed by: Danny Lee

Report Producer: Dara Chiu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC and GNSS.
Antenna Type WWAN: PIFA Antenna

Support band and evaluated information	
Supported band	WCDMA B2,B4,B5
Evaluated and Tested band	WCDMA B2,B4,B5

Band Power Class				
	PC3			
WCDMA B2	V			
WCDMA B4	V			
WCDMA B5	V			

Max Antenna Gain information(dBi)							
Band	Ant 0	Ant 1					Main Ant. #
WCDMA B2	-1.91						0
WCDMA B4	-1.11						0
WCDMA B5	-0.21						0

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	TH05-HY	03CH12-HY
Test Engineer	Weishun Hung	Gerry Wei 、Tim Lee 、Wilson Wu
Temperature (°C)	20.3~22.5	23.5~24.6
Relative Humidity (%)	54.6~55.7	51.7~58.9

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

FCC Designation No.: TW3786

1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two orientations (horizontal and vertical), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Radiated emissions were investigated as following frequency range:

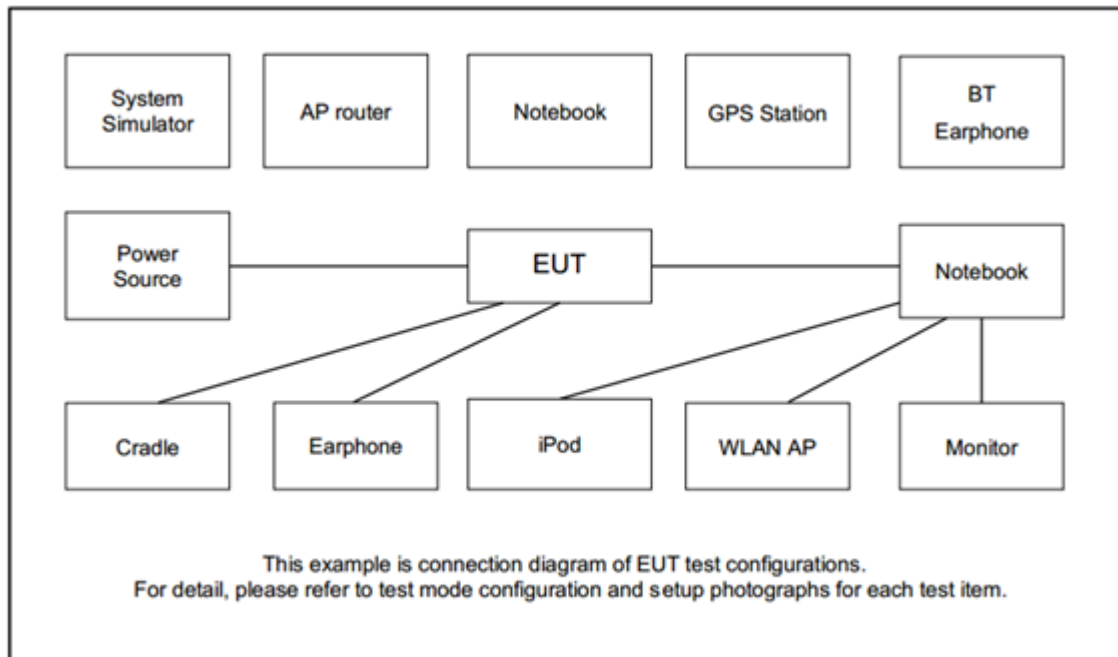
1. 30 MHz to 9000 MHz for WCDMA Band V
2. 30 MHz to 18000 MHz for WCDMA Band IV
3. 30 MHz to 19100 MHz for WCDMA Band II

All modes, 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



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10 dB attenuator.

Example:

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



2.5 Frequency List of Low/Middle/High Channels

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

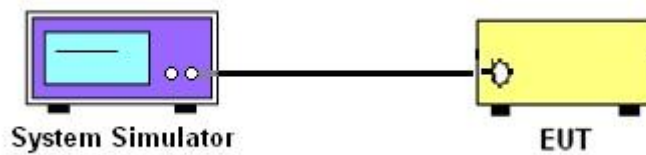
3 Conducted Test Result

3.1 Measuring Instruments

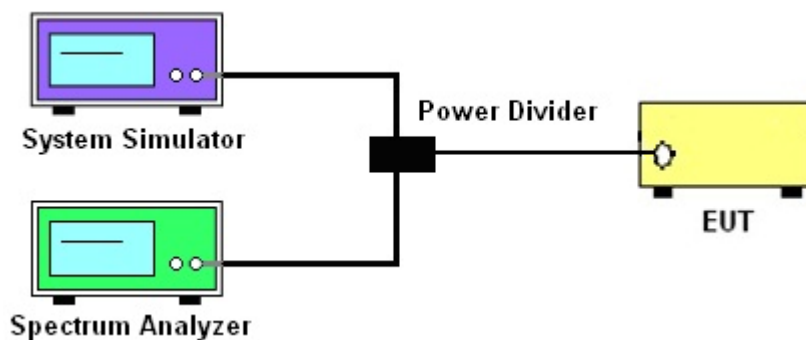
Please refer to the measuring equipment list in this test report.

3.1.1 Test Setup

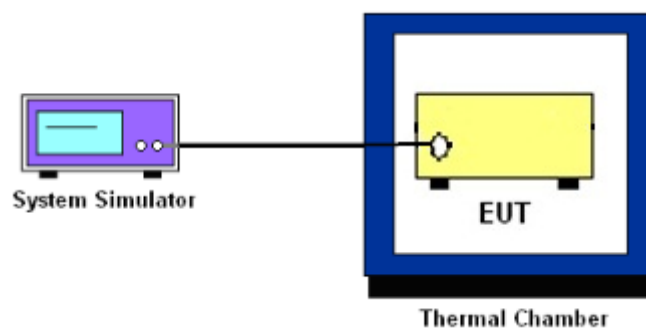
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power and ERP/EIRP

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

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

The EIRP of mobile transmitters must not exceed 2 Watts for 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

3.2.2 Test Procedures

1. The transmitter output port is connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT is connected to spectrum analyzer and system simulator via a power divider.
2. Set EUT to transmit at maximum output power.
3. When the duty cycle is less than 98%, then signal gating will be implemented on the spectrum analyzer by triggering from the system simulator.
4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer.
5. Record the maximum PAPR level associated with a probability of 0.1%.

3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT is connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 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.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT is connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT is connected to the spectrum analyzer by an RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. The band edges of low and high channels for the highest RF powers are measured.
4. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.6 Conducted Spurious Emission

3.6.1 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.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT is connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT is connected to the spectrum analyzer by an RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency is measured.
4. The conducted spurious emission for the whole frequency range is taken.
5. The RF fundamental frequency shall 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)

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT is set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature is decreased to -30°C and the EUT is stabilized before testing. Power is applied and the maximum change in frequency is recorded within one minute.
3. With power OFF, the temperature is raised in 10°C steps up to 50°C . The EUT is stabilized at each step for at least half an hour. Power is applied and the maximum frequency change is recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT is placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT is varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency is measured for the worst case.

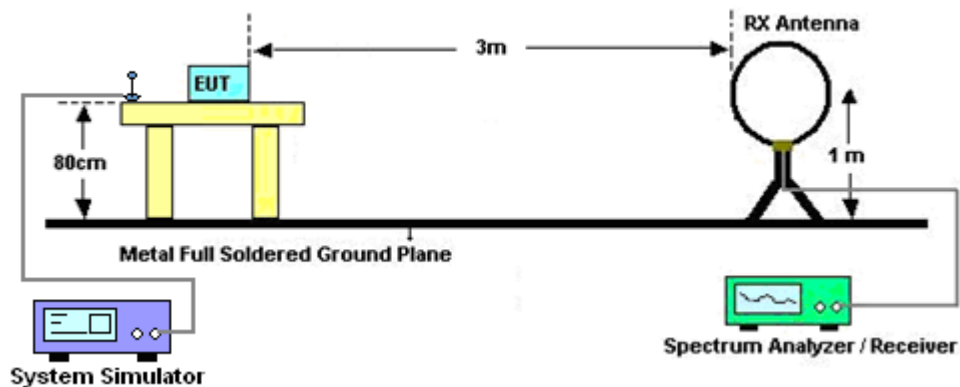
4 Radiated Test Items

4.1 Measuring Instruments

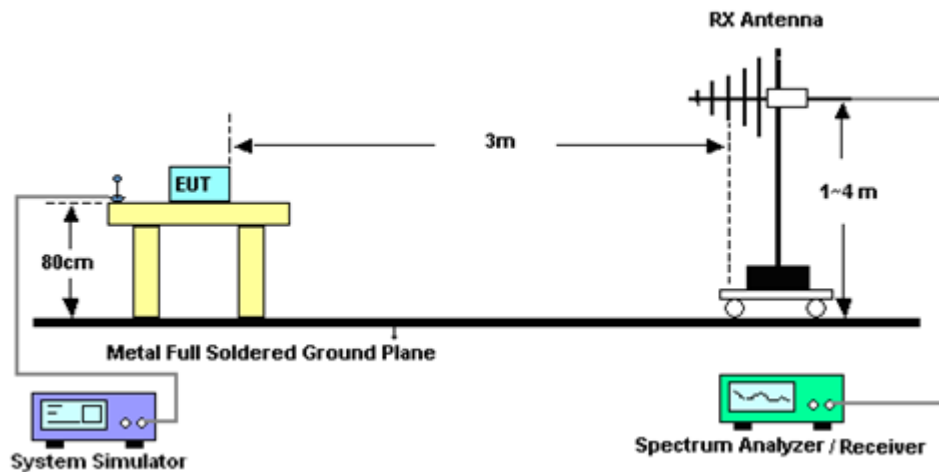
Please refer to the measuring equipment list in this test report.

4.2 Test Setup

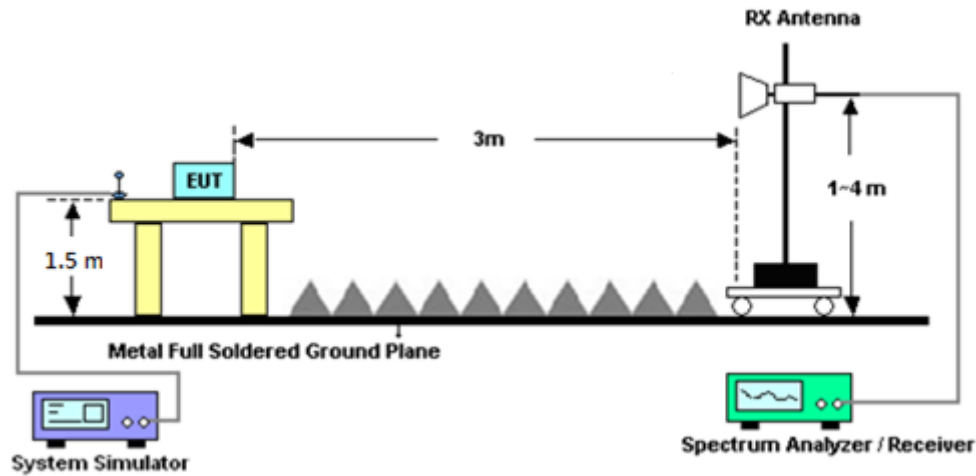
For radiated test below 30MHz



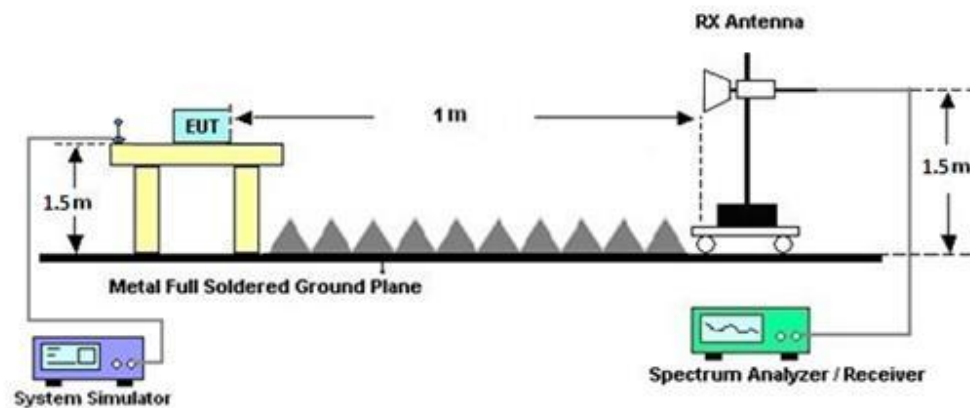
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest spurious emission.
4. 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.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 16, 2026	Aug. 18, 2026~ Aug. 22, 2026	Mar. 15, 2027	Radiation (03CH12-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Aug. 18, 2026~ Aug. 22, 2026	Dec. 10, 2026	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Aug. 18, 2026~ Aug. 22, 2026	Nov. 25, 2026	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 18, 2026	Aug. 18, 2026~ Aug. 22, 2026	Mar. 17, 2027	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Apr. 24, 2026	Aug. 18, 2026~ Aug. 22, 2026	Apr. 23, 2027	Radiation (03CH12-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Dec. 17, 2025	Aug. 18, 2026~ Aug. 22, 2026	Dec. 16, 2026	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Sep. 09, 2025	Aug. 18, 2026~ Aug. 22, 2026	Sep. 08, 2026	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 08, 2025	Aug. 18, 2026~ Aug. 22, 2026	Sep. 07, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Aug. 12, 2026	Aug. 18, 2026~ Aug. 22, 2026	Aug. 11, 2027	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2025	Aug. 18, 2026~ Aug. 22, 2026	Dec. 01, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN111	1.53GHz Low Pass Filter	Nov. 04, 2025	Aug. 18, 2026~ Aug. 22, 2026	Nov. 03, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-900- 1000-15000-6 0SS	SN11	1GHz High Pass Filter	Mar. 11, 2026	Aug. 18, 2026~ Aug. 22, 2026	Mar. 10, 2027	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Mar. 11, 2026	Aug. 18, 2026~ Aug. 22, 2026	Mar. 10, 2027	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 11, 2026	Aug. 18, 2026~ Aug. 22, 2026	Mar. 10, 2027	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Oct. 31, 2025	Aug. 18, 2026~ Aug. 22, 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Oct. 31, 2025	Aug. 18, 2026~ Aug. 22, 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM- KM-1000	240905	30MHz~40GHz	Oct. 31, 2025	Aug. 18, 2026~ Aug. 22, 2026	Oct. 30, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLE X 104	EC-A5-300-5 757,805935/ 4	9kHz~30MHz	Oct. 01, 2025	Aug. 18, 2026~ Aug. 22, 2026	Sep. 30, 2026	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 26, 2025	Aug. 18, 2026~	Aug. 25, 2026	Radiation



						Aug. 22, 2026		(03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 18, 2026~ Aug. 22, 2026	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 18, 2026~ Aug. 22, 2026	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6201432816	GSM / GPRS / WCDMA / LTE FDD/TDD with 44) / LTE-3CC DLCA,2CC ULCA	May 13, 2025	Aug. 18, 2026~ Aug. 22, 2026	May 12, 2027	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 18, 2026~ Aug. 22, 2026	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 18, 2026~ Aug. 22, 2026	N/A	Radiation (03CH12-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101329	9kHz~30GHz	Sep. 30, 2025	Aug. 13, 2026~ Aug. 18, 2026	Sep. 29, 2026	Conducted (TH05-HY)
Universal Digital Radio COMM. Tester	Rohde & Schwarz	CMU200	112403	GSM / GPRS / WCDMA / CDMA	Mar. 13, 2026	Aug. 13, 2026~ Aug. 18, 2026	Mar. 12, 2027	Conducted (TH05-HY)
DC Power Supply	GW Instek	GPE-2323	GEU871221	0V~64V ; 0A~6A	Apr. 17, 2026	Aug. 13, 2026~ Aug. 18, 2026	Apr. 16, 2027	Conducted (TH05-HY)
Temperature & Humidity Cabinet Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	Feb. 23, 2026	Aug. 13, 2026~ Aug. 18, 2026	Feb. 22, 2027	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303A	TP224371	N/A	Jun. 15, 2026	Aug. 13, 2026~ Aug. 18, 2026	Jun. 14, 2027	Conducted (TH05-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.50 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.90 dB
---	---------

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.70 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.90 dB
---	---------

Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and ERP/EIRP)

WCDMA Band V Maximum Average Power [dBm] (GT - LC = -0.21 dB)					
Channel	4132	4182	4233	ERP (dBm)	ERP (W)
Frequency	826.4	836.4	846.6		
RMC 12.2Kbps	22.48	22.37	22.22	20.12	0.1028
Limit	ERP < 7W			Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -1.19 dB)					
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)
Frequency	1852.4	1880	1907.6		
RMC 12.2Kbps	22.97	22.91	22.61	21.78	0.1507
Limit	EIRP < 2W			Result	Pass

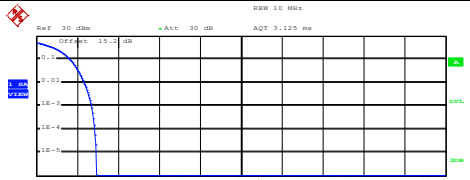
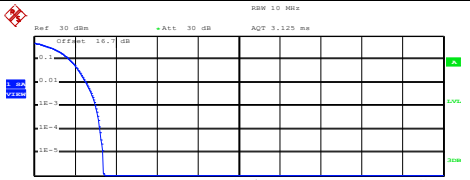
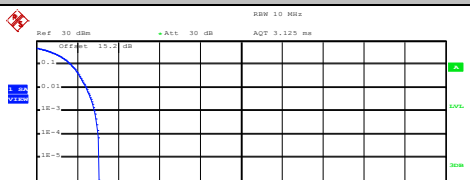
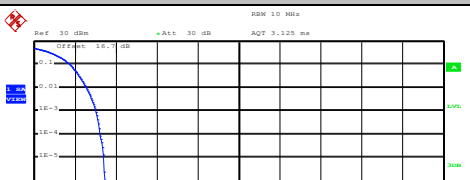
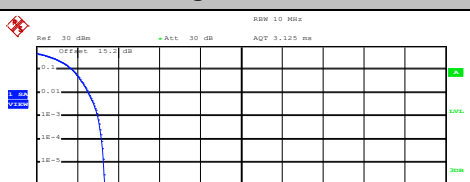
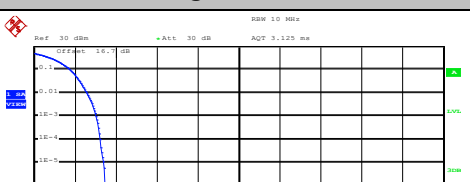
WCDMA Band IV Maximum Average Power [dBm] (GT - LC = -1.11 dB)					
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)
Frequency	1712.4	1732.6	1752.6		
RMC 12.2Kbps	22.91	22.93	22.98	21.87	0.1538
Limit	EIRP < 1W			Result	Pass



A2. WCDMA

Peak-to-Average Ratio

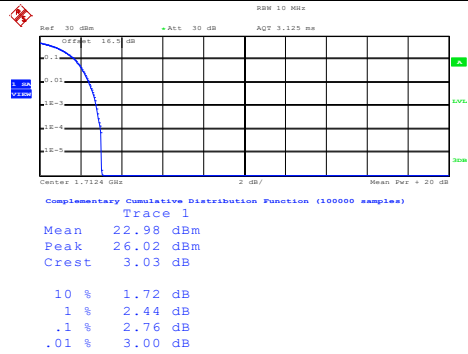
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.72	3.00	2.76	PASS
Middle CH	2.84	3.04	2.96	
Highest CH	3.00	3.04	2.76	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																												
Lowest Channel	Lowest Channel																												
 Center 826.4 MHz Ref: 30 dBm, Offset: 15.0 dB, Att: 30 dB, AQT: 3.125 ms Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.63 dBm</td></tr><tr><td>Peak</td><td>26.58 dBm</td></tr><tr><td>Crest</td><td>2.95 dB</td></tr></table> <table><tr><td>10 %</td><td>1.64 dB</td></tr><tr><td>1 %</td><td>2.32 dB</td></tr><tr><td>.1 %</td><td>2.72 dB</td></tr><tr><td>.01 %</td><td>2.88 dB</td></tr></table> Date: 13.AUG.2026 12:32:59	Mean	23.63 dBm	Peak	26.58 dBm	Crest	2.95 dB	10 %	1.64 dB	1 %	2.32 dB	.1 %	2.72 dB	.01 %	2.88 dB	 Center 1.8524 GHz Ref: 30 dBm, Offset: 16.7 dB, Att: 30 dB, AQT: 3.125 ms Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.05 dBm</td></tr><tr><td>Peak</td><td>26.44 dBm</td></tr><tr><td>Crest</td><td>3.40 dB</td></tr></table> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.56 dB</td></tr><tr><td>.1 %</td><td>3.00 dB</td></tr><tr><td>.01 %</td><td>3.24 dB</td></tr></table> Date: 13.AUG.2026 11:42:12	Mean	23.05 dBm	Peak	26.44 dBm	Crest	3.40 dB	10 %	1.72 dB	1 %	2.56 dB	.1 %	3.00 dB	.01 %	3.24 dB
Mean	23.63 dBm																												
Peak	26.58 dBm																												
Crest	2.95 dB																												
10 %	1.64 dB																												
1 %	2.32 dB																												
.1 %	2.72 dB																												
.01 %	2.88 dB																												
Mean	23.05 dBm																												
Peak	26.44 dBm																												
Crest	3.40 dB																												
10 %	1.72 dB																												
1 %	2.56 dB																												
.1 %	3.00 dB																												
.01 %	3.24 dB																												
Middle Channel	Middle Channel																												
 Center 836.4 MHz Ref: 30 dBm, Offset: 15.0 dB, Att: 30 dB, AQT: 3.125 ms Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.58 dBm</td></tr><tr><td>Peak</td><td>26.65 dBm</td></tr><tr><td>Crest</td><td>3.07 dB</td></tr></table> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.44 dB</td></tr><tr><td>.1 %</td><td>2.84 dB</td></tr><tr><td>.01 %</td><td>3.04 dB</td></tr></table> Date: 13.AUG.2026 12:33:28	Mean	23.58 dBm	Peak	26.65 dBm	Crest	3.07 dB	10 %	1.68 dB	1 %	2.44 dB	.1 %	2.84 dB	.01 %	3.04 dB	 Center 1.85 GHz Ref: 30 dBm, Offset: 16.7 dB, Att: 30 dB, AQT: 3.125 ms Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.07 dBm</td></tr><tr><td>Peak</td><td>26.51 dBm</td></tr><tr><td>Crest</td><td>3.44 dB</td></tr></table> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.56 dB</td></tr><tr><td>.1 %</td><td>3.04 dB</td></tr><tr><td>.01 %</td><td>3.24 dB</td></tr></table> Date: 13.AUG.2026 11:43:42	Mean	23.07 dBm	Peak	26.51 dBm	Crest	3.44 dB	10 %	1.76 dB	1 %	2.56 dB	.1 %	3.04 dB	.01 %	3.24 dB
Mean	23.58 dBm																												
Peak	26.65 dBm																												
Crest	3.07 dB																												
10 %	1.68 dB																												
1 %	2.44 dB																												
.1 %	2.84 dB																												
.01 %	3.04 dB																												
Mean	23.07 dBm																												
Peak	26.51 dBm																												
Crest	3.44 dB																												
10 %	1.76 dB																												
1 %	2.56 dB																												
.1 %	3.04 dB																												
.01 %	3.24 dB																												
Highest Channel	Highest Channel																												
 Center 846.6 MHz Ref: 30 dBm, Offset: 15.0 dB, Att: 30 dB, AQT: 3.125 ms Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.47 dBm</td></tr><tr><td>Peak</td><td>26.80 dBm</td></tr><tr><td>Crest</td><td>3.32 dB</td></tr></table> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.56 dB</td></tr><tr><td>.1 %</td><td>3.00 dB</td></tr><tr><td>.01 %</td><td>3.20 dB</td></tr></table> Date: 13.AUG.2026 12:33:55	Mean	23.47 dBm	Peak	26.80 dBm	Crest	3.32 dB	10 %	1.76 dB	1 %	2.56 dB	.1 %	3.00 dB	.01 %	3.20 dB	 Center 1.9076 GHz Ref: 30 dBm, Offset: 16.7 dB, Att: 30 dB, AQT: 3.125 ms Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>22.90 dBm</td></tr><tr><td>Peak</td><td>26.37 dBm</td></tr><tr><td>Crest</td><td>3.47 dB</td></tr></table> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.60 dB</td></tr><tr><td>.1 %</td><td>3.04 dB</td></tr><tr><td>.01 %</td><td>3.24 dB</td></tr></table> Date: 13.AUG.2026 11:44:42	Mean	22.90 dBm	Peak	26.37 dBm	Crest	3.47 dB	10 %	1.76 dB	1 %	2.60 dB	.1 %	3.04 dB	.01 %	3.24 dB
Mean	23.47 dBm																												
Peak	26.80 dBm																												
Crest	3.32 dB																												
10 %	1.76 dB																												
1 %	2.56 dB																												
.1 %	3.00 dB																												
.01 %	3.20 dB																												
Mean	22.90 dBm																												
Peak	26.37 dBm																												
Crest	3.47 dB																												
10 %	1.76 dB																												
1 %	2.60 dB																												
.1 %	3.04 dB																												
.01 %	3.24 dB																												



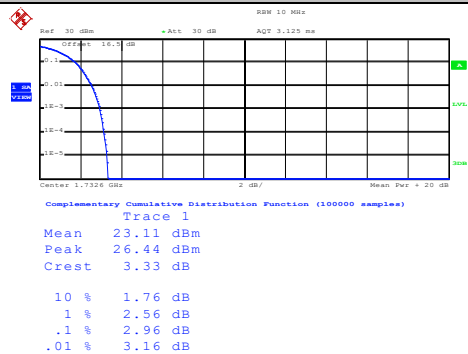
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



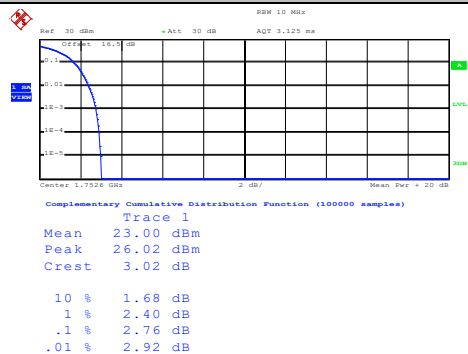
Date: 13.AUG.2026 12:15:12

Middle Channel



Date: 13.AUG.2026 12:15:40

Highest Channel



Date: 13.AUG.2026 12:16:12



26dB Bandwidth

Mode	WCDMA Band V 26dB BW(MHz)	WCDMA Band II 26dB BW(MHz)	WCDMA Band IV 26dB BW(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.72	4.71	4.72
Middle CH	4.71	4.72	4.71
Highest CH	4.71	4.72	4.72



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
Date: 13.AUG.2026 12:17:51	Date: 13.AUG.2026 11:25:21
Middle Channel	Middle Channel
Date: 13.AUG.2026 12:18:45	Date: 13.AUG.2026 11:26:16
Highest Channel	Highest Channel
Date: 13.AUG.2026 12:19:31	Date: 13.AUG.2026 11:27:04





Occupied Bandwidth

Mode	WCDMA Band V 99%OBW(MHz)	WCDMA Band II 99%OBW(MHz)	WCDMA Band IV 99%OBW(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.17	4.17	4.17
Middle CH	4.17	4.17	4.17
Highest CH	4.16	4.17	4.17



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel
Date: 13.AUG.2026 12:20:58	Date: 13.AUG.2026 11:28:31
Middle Channel	Middle Channel
Date: 13.AUG.2026 12:21:41	Date: 13.AUG.2026 11:29:22
Highest Channel	Highest Channel
Date: 13.AUG.2026 12:22:26	Date: 13.AUG.2026 11:30:06



Date: 13.AUG.2026 12:02:45

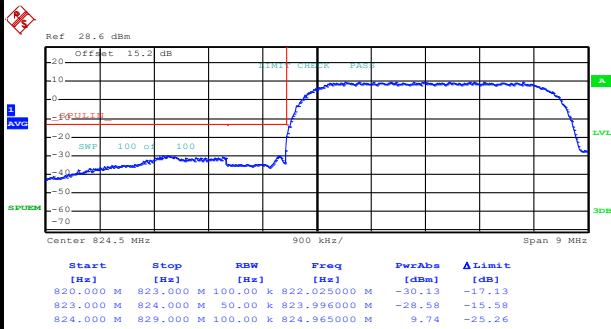


Conducted Band Edge

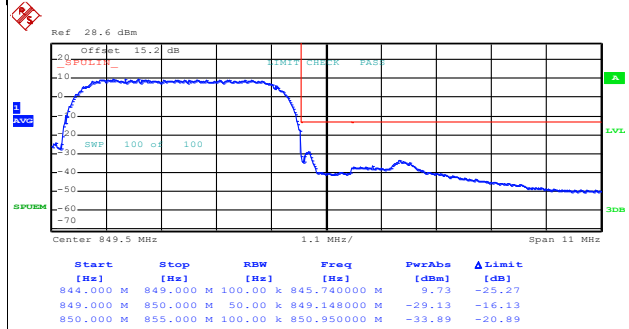
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 13.AUG.2026 12:26:06



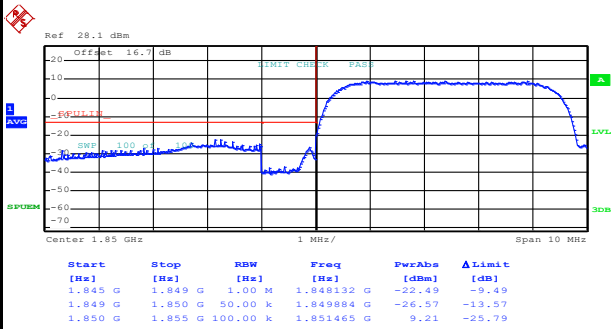
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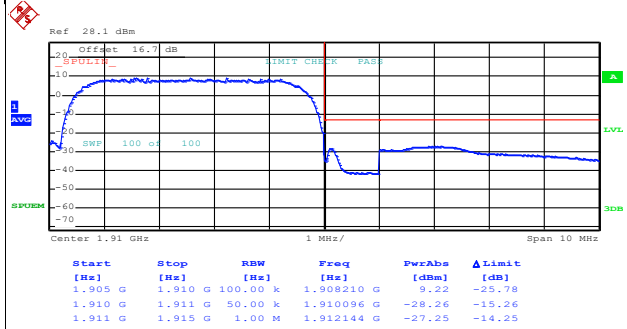
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 13.AUG.2026 11:33:41

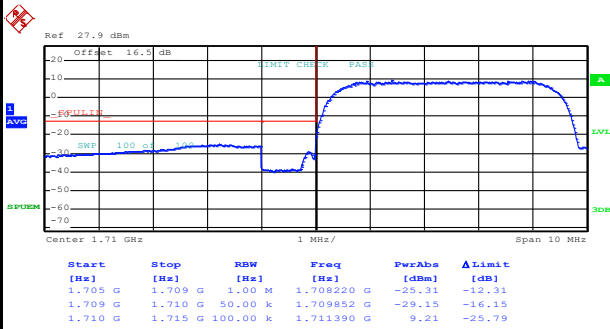


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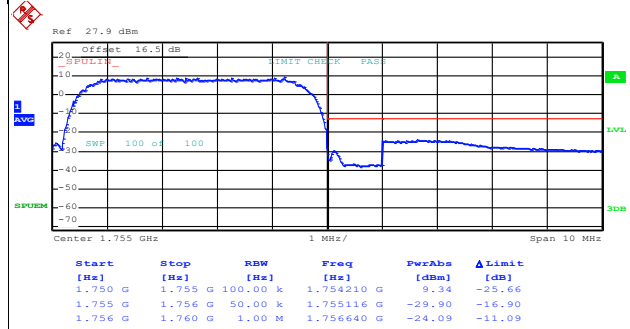
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 13.AUG.2026 12:06:58

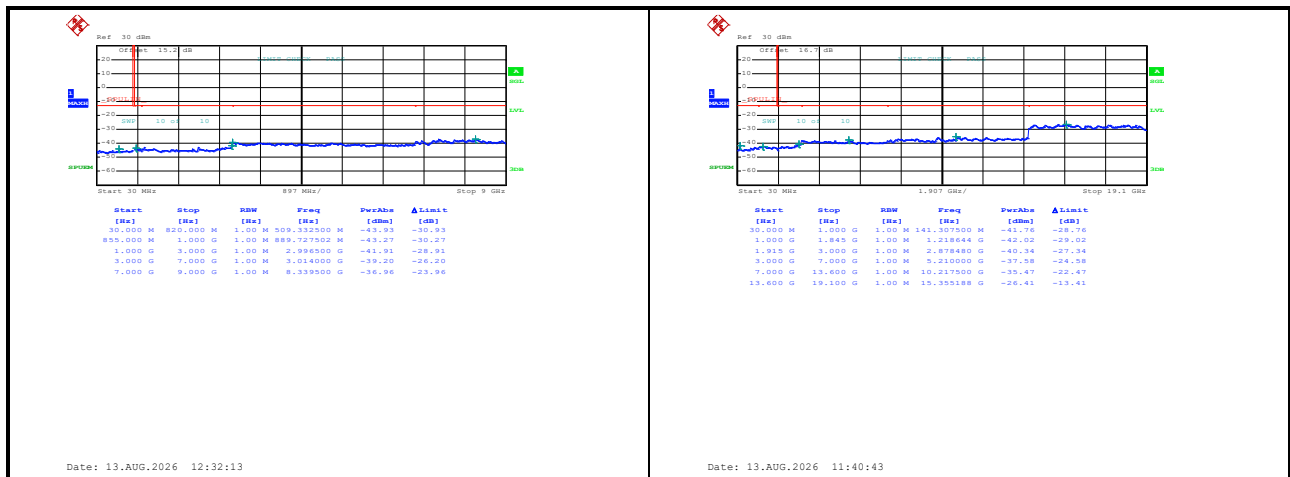


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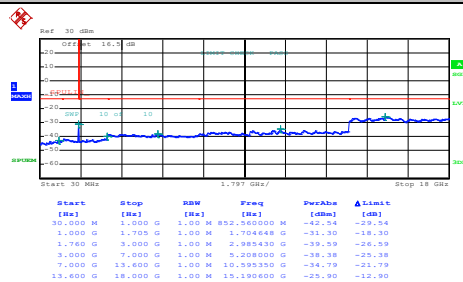
Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	Lowest Channel

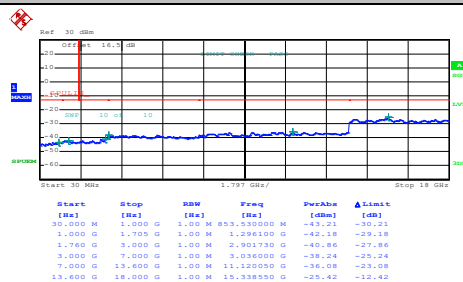


WCDMA Band IV (RMC 12.2Kbps)

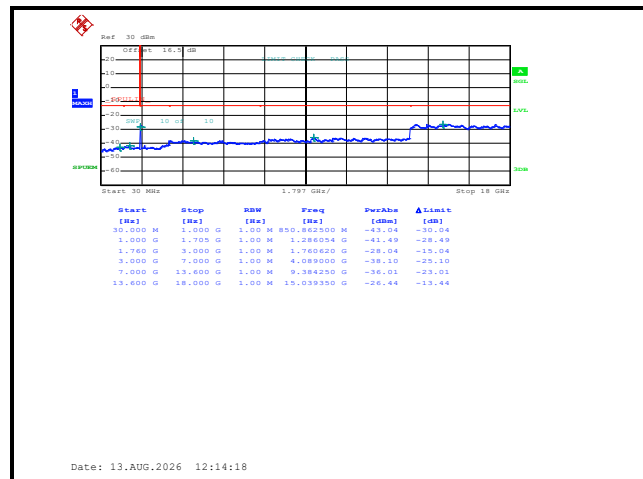
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		WCDMA Band V (RMC 12.2Kbps) / Middle Channel			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Deviation (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0036	-3	Yes	PASS
40	Normal Voltage	0.0024	-2	Yes	
30	Normal Voltage	0.0012	-1	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0048	4	Yes	
0	Normal Voltage	0.0036	3	Yes	
-10	Normal Voltage	0.0012	1	Yes	
-20	Normal Voltage	0.0024	2	Yes	
-30	Normal Voltage	0.0012	-1	Yes	
20	Maximum Voltage	0.0012	1	Yes	
20	Normal Voltage	0.0012	-1	Yes	
20	Minimum Voltage	0.0060	5	Yes	

Note:

1. Normal Voltage = 9 V. ; Minimum Voltage = 8.4 V. ; Maximum Voltage = 9.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

Test Conditions		WCDMA Band II (RMC 12.2Kbps) / Middle Channel			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Deviation (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0043	8	Yes	PASS
40	Normal Voltage	0.0059	11	Yes	
30	Normal Voltage	0.0005	1	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0005	1	Yes	
0	Normal Voltage	0.0037	7	Yes	
-10	Normal Voltage	0.0032	6	Yes	
-20	Normal Voltage	0.0021	4	Yes	
-30	Normal Voltage	0.0011	2	Yes	
20	Maximum Voltage	0.0005	1	Yes	
20	Normal Voltage	0.0027	5	Yes	
20	Minimum Voltage	0.0011	2	Yes	

Note:

1. Normal Voltage = 9 V. ; Minimum Voltage = 8.4 V. ; Maximum Voltage = 9.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

Test Conditions		WCDMA Band IV (RMC 12.2Kbps) / Middle Channel			
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Deviation (Hz)	Within Authorized Frequency Block(Hz)	Result
50	Normal Voltage	0.0040	-7	Yes	PASS
40	Normal Voltage	0.0035	-6	Yes	
30	Normal Voltage	0.0012	-2	Yes	
20(Ref.)	Normal Voltage	0.0000	0	Yes	
10	Normal Voltage	0.0000	0	Yes	
0	Normal Voltage	0.0006	-1	Yes	
-10	Normal Voltage	0.0017	3	Yes	
-20	Normal Voltage	0.0006	1	Yes	
-30	Normal Voltage	0.0035	-6	Yes	
20	Maximum Voltage	0.0023	-4	Yes	
20	Normal Voltage	0.0000	0	Yes	
20	Minimum Voltage	0.0029	5	Yes	

Note:

1. Normal Voltage = 9 V. ; Minimum Voltage = 8.4 V. ; Maximum Voltage = 9.6 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.



Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Gerry Wei 、 Tim Lee 、 Wilson Wu	Relative Humidity(%):	51.7 ~ 58.9 %
		Temperature(°C):	23.5 ~ 24.6 °C

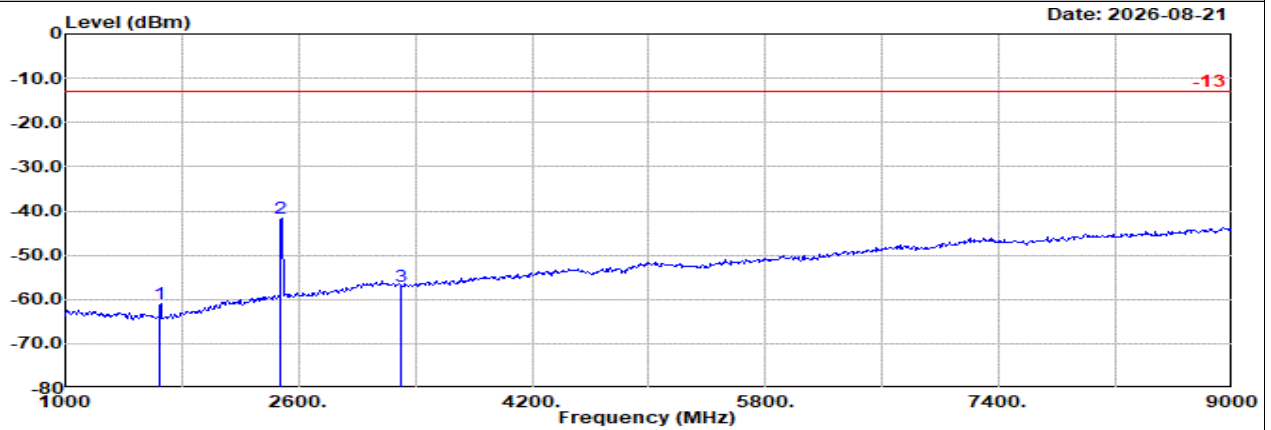
B1.Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	WCDMA B5	Part 22H	H	2539	-38.02	RMS	28.11	-27.07	0.07	-95.23	56.10	-13.00	-25.02	H	0
1	WCDMA B2	Part 24E	H	7630	-46.17	RMS	36.26	-21.40	0.45	-95.23	33.75	-13.00	-33.17	H	0
1	WCDMA B4	Part 27L	L	6849	-47.09	RMS	35.80	-21.91	0.48	-95.23	33.77	-13.00	-34.09	H	0



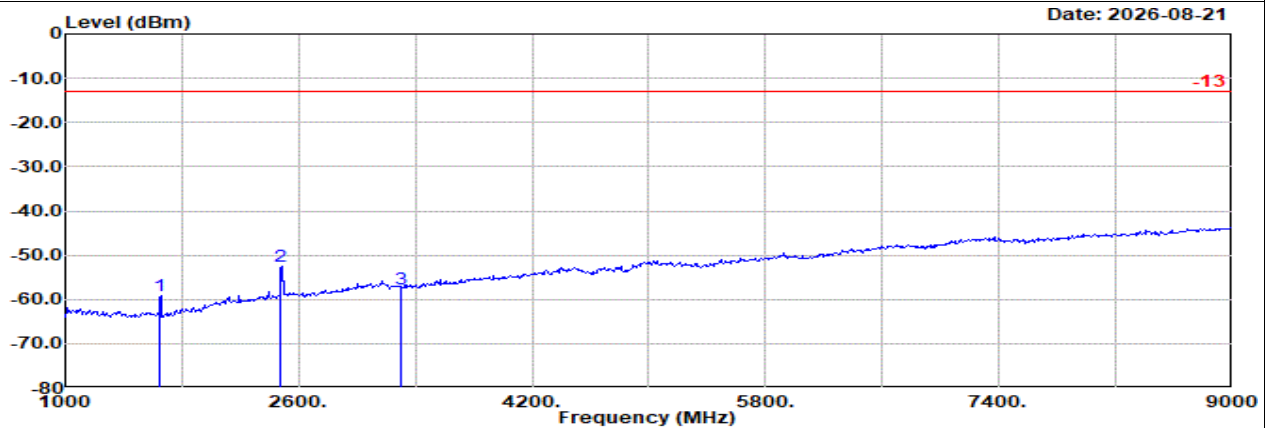
Ant. 0

Part 22H Mode 1
WCDMA B5 Ch4132
L



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Horizontal
: WCDMA Band 5 Ch4132

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1652.00	-60.87	RMS	25.18	-29.42	0.36	-95.23	38.24	-13.00	-47.87	Horizontal
2	2479.00	-41.70	RMS	27.98	-27.18	0.08	-95.23	52.65	-13.00	-28.70	Horizontal
3	3305.00	-57.17	RMS	29.71	-26.04	0.06	-95.23	34.33	-13.00	-44.17	Horizontal



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Vertical
: WCDMA Band 5 Ch4132

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1652.00	-59.24	RMS	25.18	-29.42	0.36	-95.23	39.87	-13.00	-46.24	Vertical
2	2479.00	-52.47	RMS	27.98	-27.18	0.08	-95.23	41.88	-13.00	-39.47	Vertical
3	3305.00	-57.52	RMS	29.71	-26.04	0.06	-95.23	33.98	-13.00	-44.52	Vertical

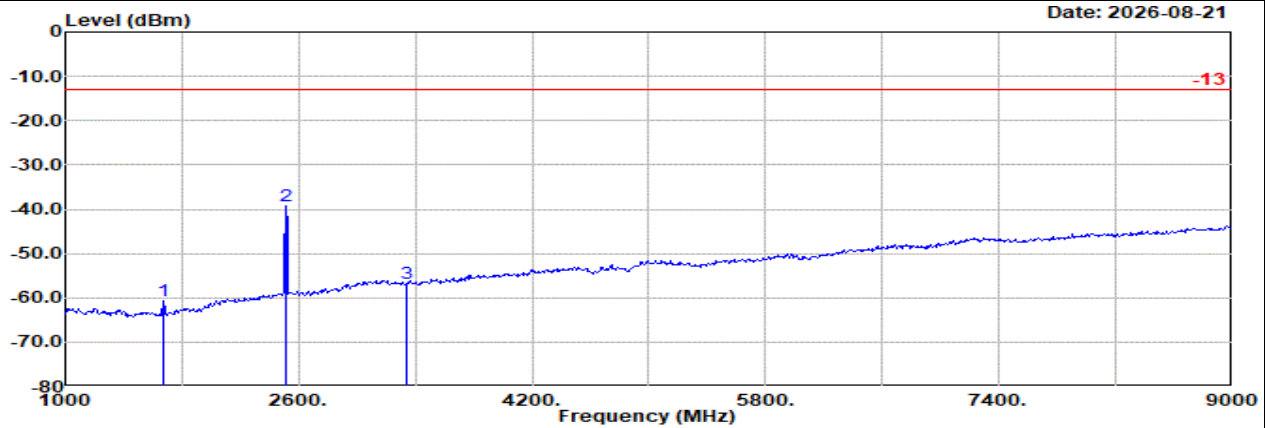


Ant. 0

Part 22H Mode 1

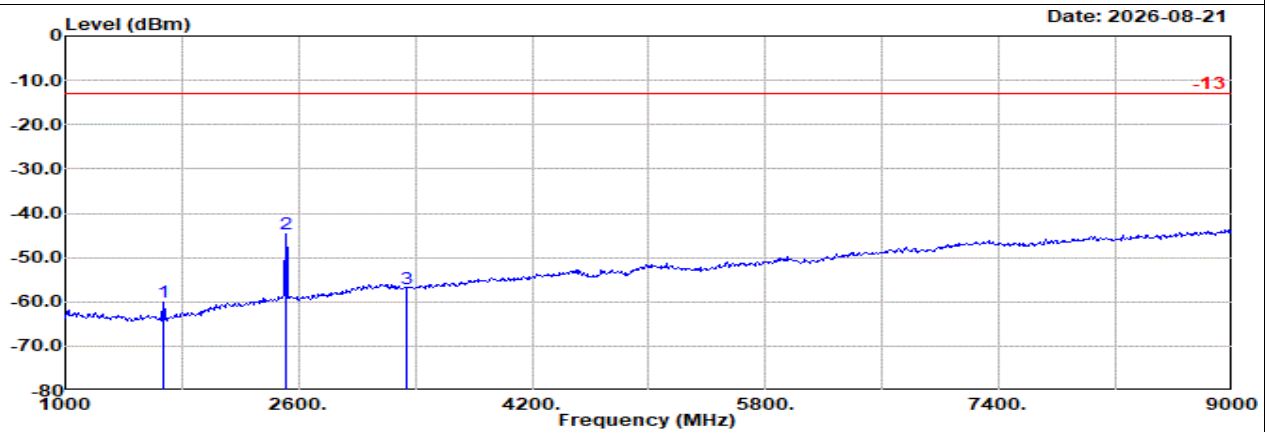
WCDMA B5 Ch4182

M



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Horizontal
: WCDMA Band 5 Ch4182

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1672.00	-60.71	RMS	25.08	-29.35	0.36	-95.23	38.43	-13.00	-47.71	Horizontal	
2	2509.00	-39.17	RMS	28.19	-27.12	0.07	-95.23	54.92	-13.00	-26.17	Horizontal	
3	3345.00	-56.68	RMS	29.79	-25.99	0.07	-95.23	34.68	-13.00	-43.68	Horizontal	



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Vertical
: WCDMA Band 5 Ch4182

	Freq Level		Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1672.00	-60.11	RMS	25.08	-29.35	0.36	-95.23	39.03	-13.00	-47.11	Vertical	
2	2509.00	-44.57	RMS	28.19	-27.12	0.07	-95.23	49.52	-13.00	-31.57	Vertical	
3	3345.00	-56.91	RMS	29.79	-25.99	0.07	-95.23	34.45	-13.00	-43.91	Vertical	

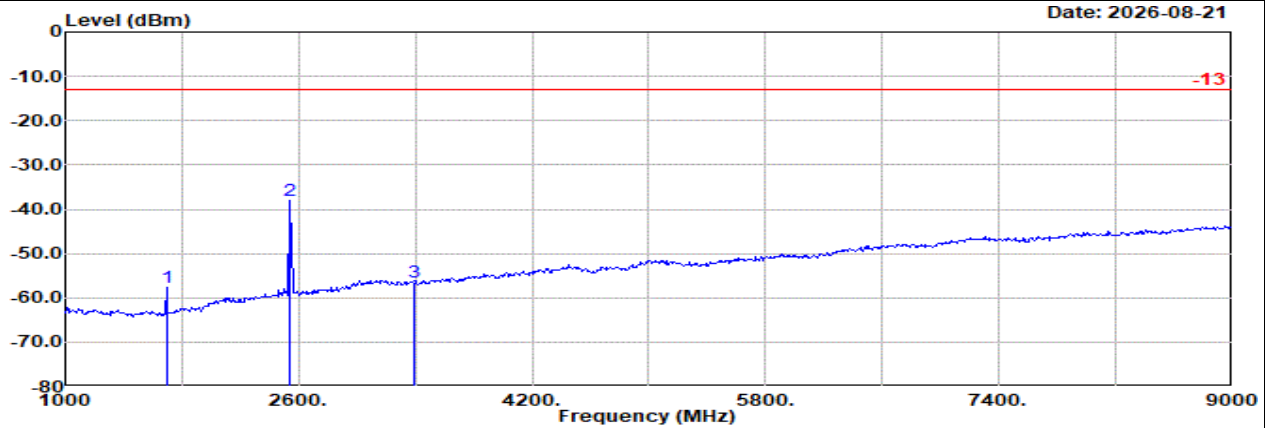


Ant. 0

Part 22H Mode 1

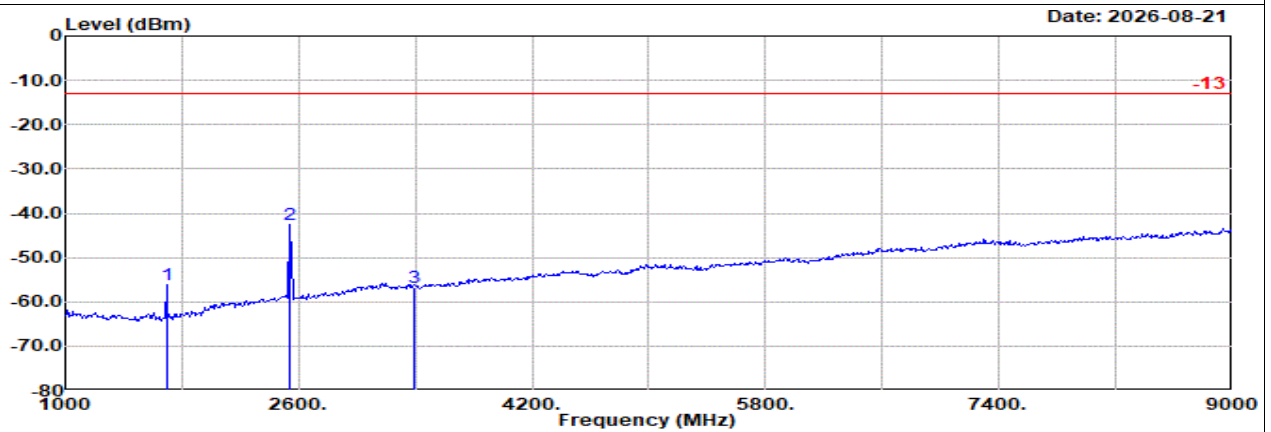
WCDMA B5 Ch4233

H



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Horizontal
: WCDMA Band 5 Ch4233

	Freq	Level	Detector	Ant Factor		Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB			dB	dB	dBuV	dBm	dB	
1	1693.00	-57.76	RMS	24.90	-29.28	0.37	-95.23	41.48	-13.00	-44.76	Horizontal		
2	2539.00	-38.02	RMS	28.11	-27.07	0.07	-95.23	56.10	-13.00	-25.02	Horizontal		
3	3386.00	-56.44	RMS	29.73	-25.94	0.08	-95.23	34.92	-13.00	-43.44	Horizontal		



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Vertical
: WCDMA Band 5 Ch4233

	Freq	Level	Detector	Ant Factor		Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
	MHz	dBm		dB/m	dB			dB	dB	dBuV	dBm	dB	
1	1693.00	-56.27	RMS	24.90	-29.28	0.37	-95.23	42.97	-13.00	-43.27	Vertical		
2	2539.00	-42.47	RMS	28.11	-27.07	0.07	-95.23	51.65	-13.00	-29.47	Vertical		
3	3386.00	-56.71	RMS	29.73	-25.94	0.08	-95.23	34.65	-13.00	-43.71	Vertical		

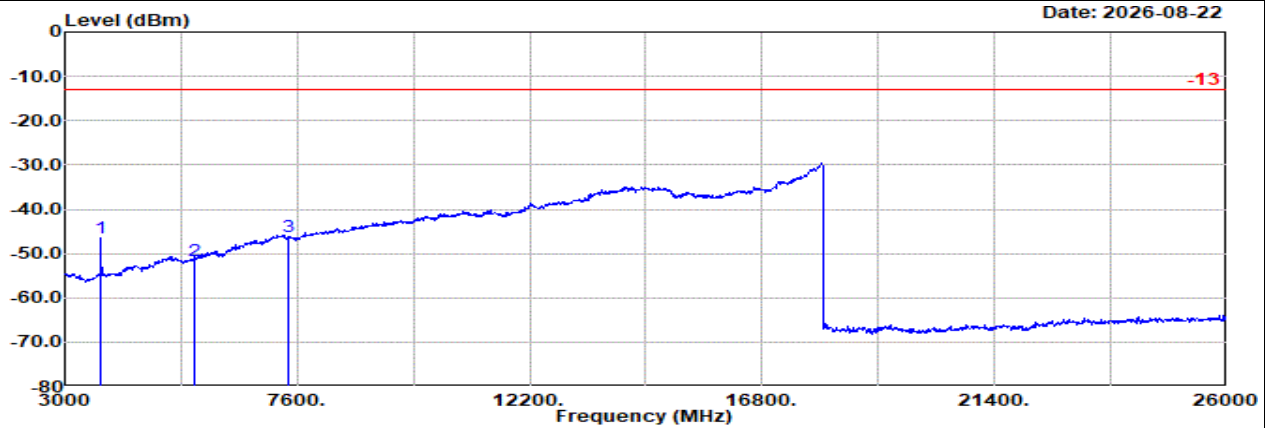


Ant. 0

Part 24E Mode 1

WCDMA B2 Ch9262

L

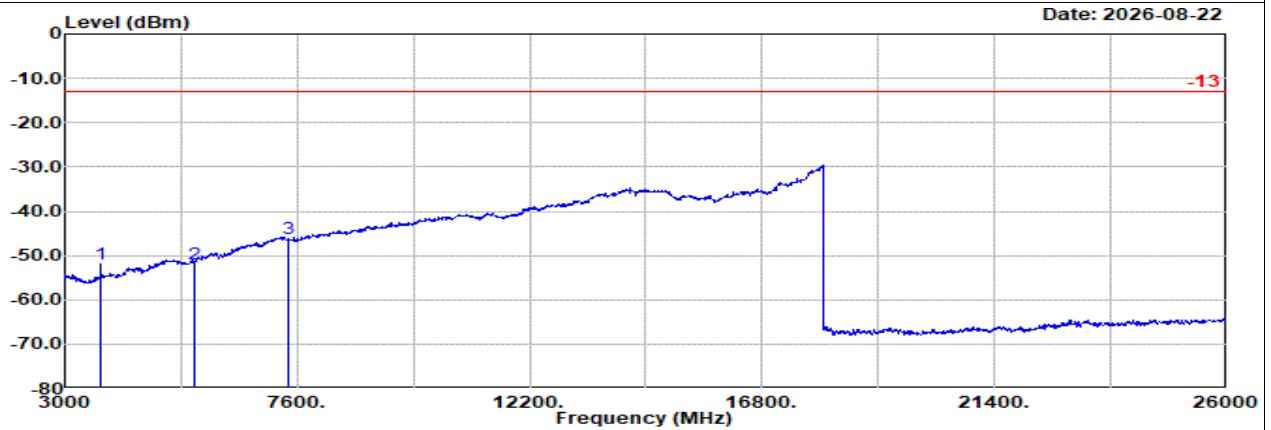


Site : 03CH12-HY

Condition: -13 1m BBHA9170_1223_260812 Horizontal

: WCDMA Band2 Ch9262

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3704.00	-46.37	RMS	29.93	-25.38	0.99	-95.23	43.32	-13.00	-33.37	Horizontal	
2	5557.00	-51.57	RMS	32.83	-22.95	0.57	-95.23	33.21	-13.00	-38.57	Horizontal	
3	7409.00	-46.33	RMS	36.46	-21.51	0.42	-95.23	33.53	-13.00	-33.33	Horizontal	



Site : 03CH12-HY

Condition: -13 1m BBHA9170_1223_260812 Vertical

: WCDMA Band2 Ch9262

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3704.00	-51.82	RMS	29.93	-25.38	0.99	-95.23	37.87	-13.00	-38.82	Vertical	
2	5557.00	-51.84	RMS	32.83	-22.95	0.57	-95.23	32.94	-13.00	-38.84	Vertical	
3	7409.00	-46.20	RMS	36.46	-21.51	0.42	-95.23	33.66	-13.00	-33.20	Vertical	

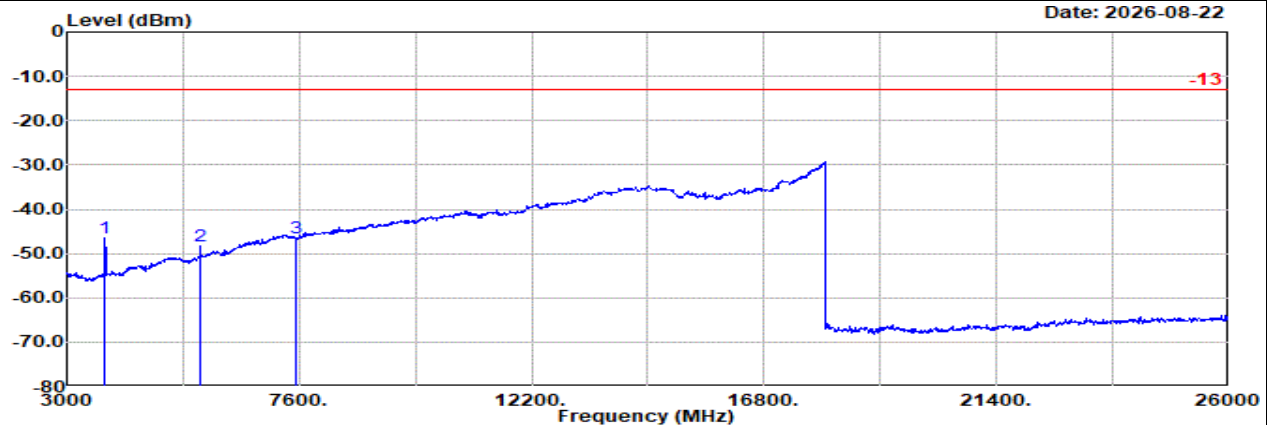


Ant. 0

Part 24E Mode 1

WCDMA B2 Ch9400

M

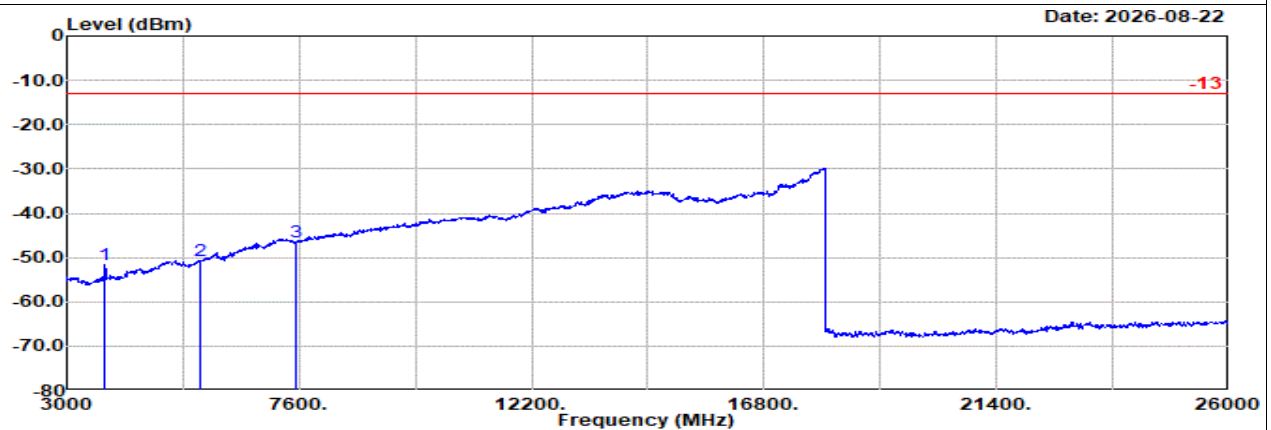


Site : 03CH12-HY

Condition: -13 1m BBHA9170_1223_260812 Horizontal

: WCDMA Band2 Ch9400

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3760.00	-46.37	RMS	30.32	-25.29	0.96	-95.23	42.87	-13.00	-33.37	Horizontal	
2	5640.00	-48.19	RMS	33.08	-22.88	0.54	-95.23	36.30	-13.00	-35.19	Horizontal	
3	7520.00	-46.40	RMS	36.22	-21.46	0.43	-95.23	33.64	-13.00	-33.40	Horizontal	



Site : 03CH12-HY

Condition: -13 1m BBHA9170_1223_260812 Vertical

: WCDMA Band2 Ch9400

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3760.00	-51.61	RMS	30.32	-25.29	0.96	-95.23	37.63	-13.00	-38.61	Vertical	
2	5640.00	-50.66	RMS	33.08	-22.88	0.54	-95.23	33.83	-13.00	-37.66	Vertical	
3	7520.00	-46.49	RMS	36.22	-21.46	0.43	-95.23	33.55	-13.00	-33.49	Vertical	

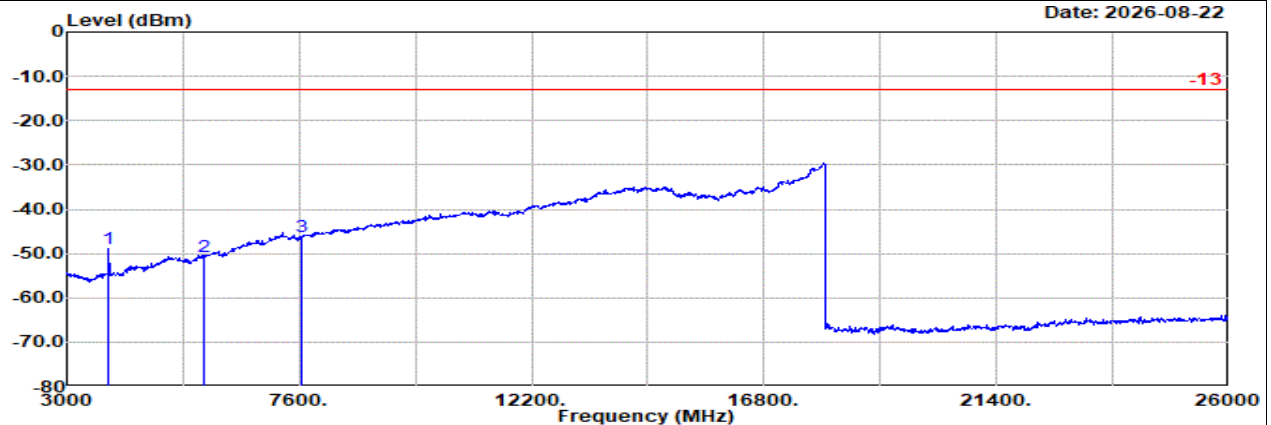


Ant. 0

Part 24E Mode 1

WCDMA B2 Ch9538

H

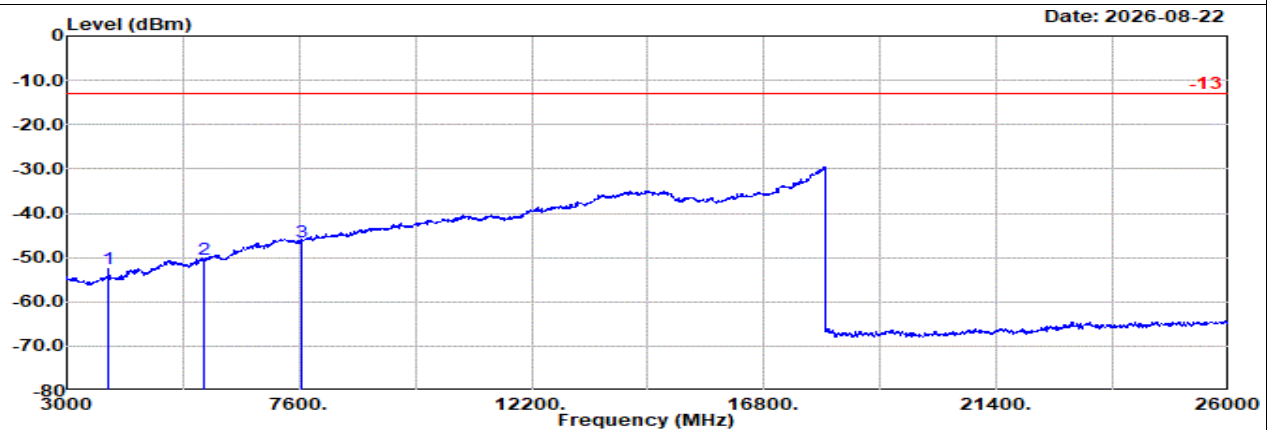


Site : 03CH12-HY

Condition: -13 1m BBHA9170_1223_260812 Horizontal

: WCDMA Band2 Ch9538

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3815.00	-48.85	RMS	30.49	-25.19	0.93	-95.23	40.15	-13.00	-35.85	Horizontal	
2	5722.00	-50.77	RMS	33.44	-22.86	0.52	-95.23	33.36	-13.00	-37.77	Horizontal	
3	7630.00	-46.17	RMS	36.26	-21.40	0.45	-95.23	33.75	-13.00	-33.17	Horizontal	



Site : 03CH12-HY

Condition: -13 1m BBHA9170_1223_260812 Vertical

: WCDMA Band2 Ch9538

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3815.00	-52.42	RMS	30.49	-25.19	0.93	-95.23	36.58	-13.00	-39.42	Vertical	
2	5722.00	-50.33	RMS	33.44	-22.86	0.52	-95.23	33.80	-13.00	-37.33	Vertical	
3	7630.00	-46.51	RMS	36.26	-21.40	0.45	-95.23	33.41	-13.00	-33.51	Vertical	

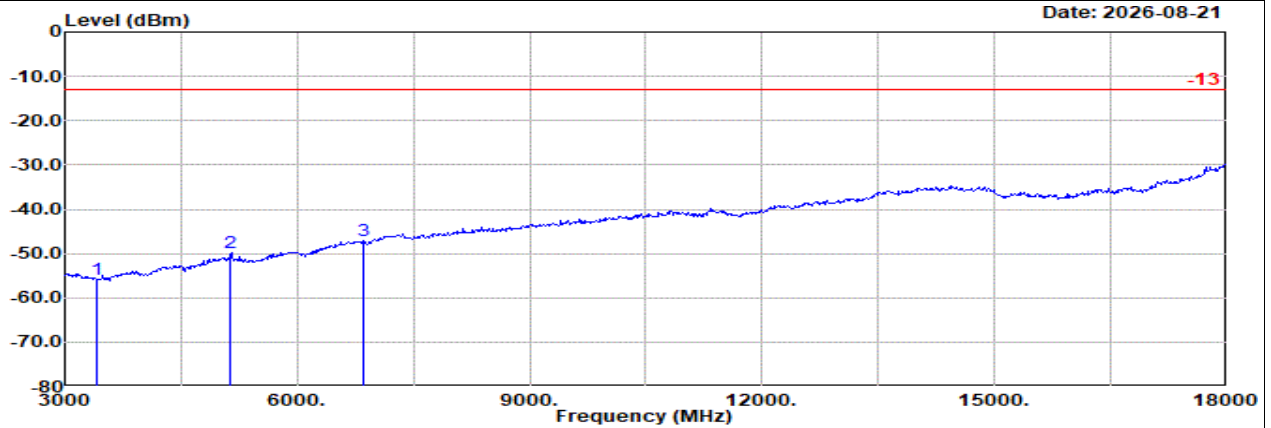


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Part 27L Mode 1

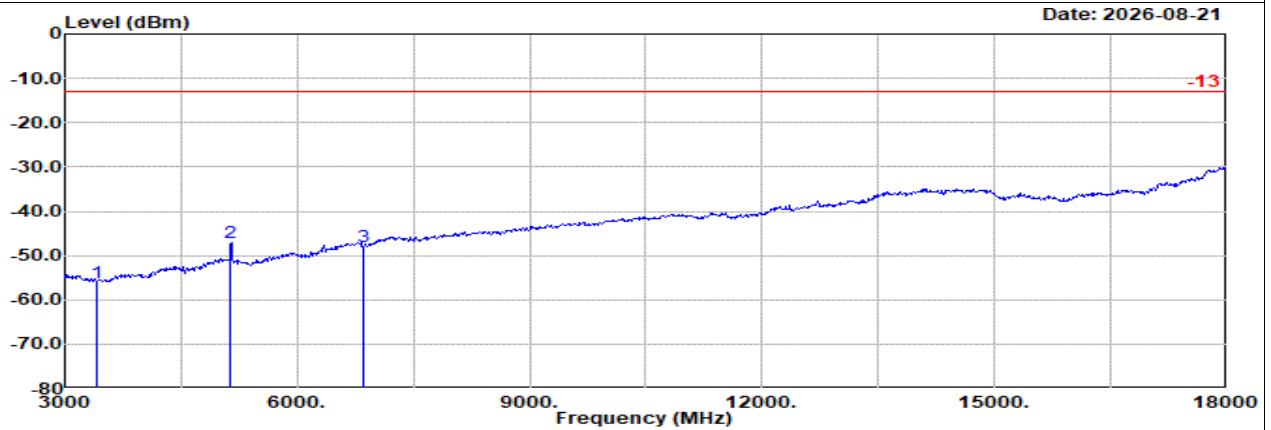
WCDMA B4 Ch1312

L



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Horizontal
: WCDMA Band4 CH1312

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3424.00	-55.74	RMS		29.65	-25.88	1.23	-95.23	34.49	-13.00	-42.74	Horizontal
2	5137.00	-49.70	RMS		33.17	-23.50	0.59	-95.23	35.27	-13.00	-36.70	Horizontal
3	6849.00	-47.09	RMS		35.80	-21.91	0.48	-95.23	33.77	-13.00	-34.09	Horizontal



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Vertical
: WCDMA Band4 CH1312

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3424.00	-56.23	RMS		29.65	-25.88	1.23	-95.23	34.00	-13.00	-43.23	Vertical
2	5137.00	-47.16	RMS		33.17	-23.50	0.59	-95.23	37.81	-13.00	-34.16	Vertical
3	6849.00	-47.88	RMS		35.80	-21.91	0.48	-95.23	32.98	-13.00	-34.88	Vertical

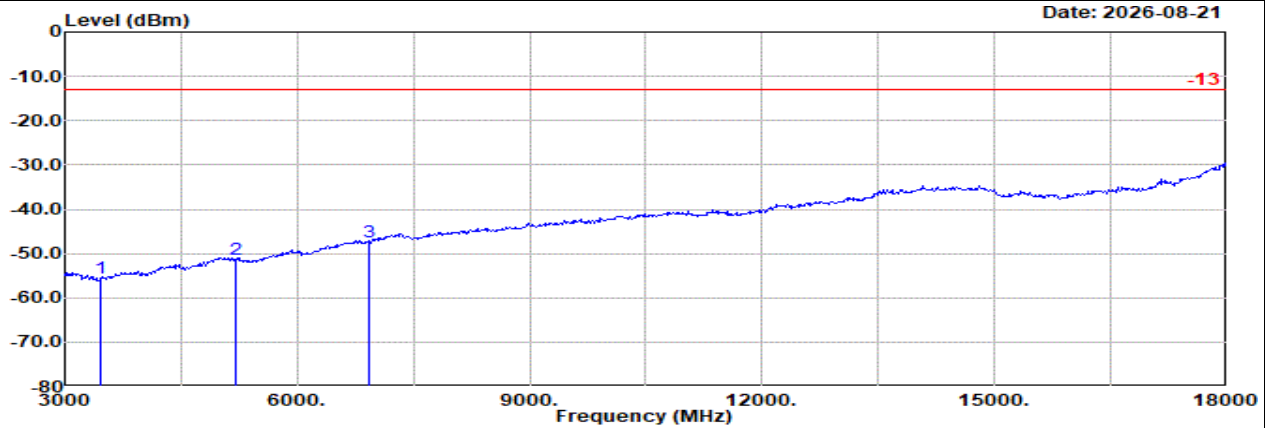


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Part 27L Mode 1

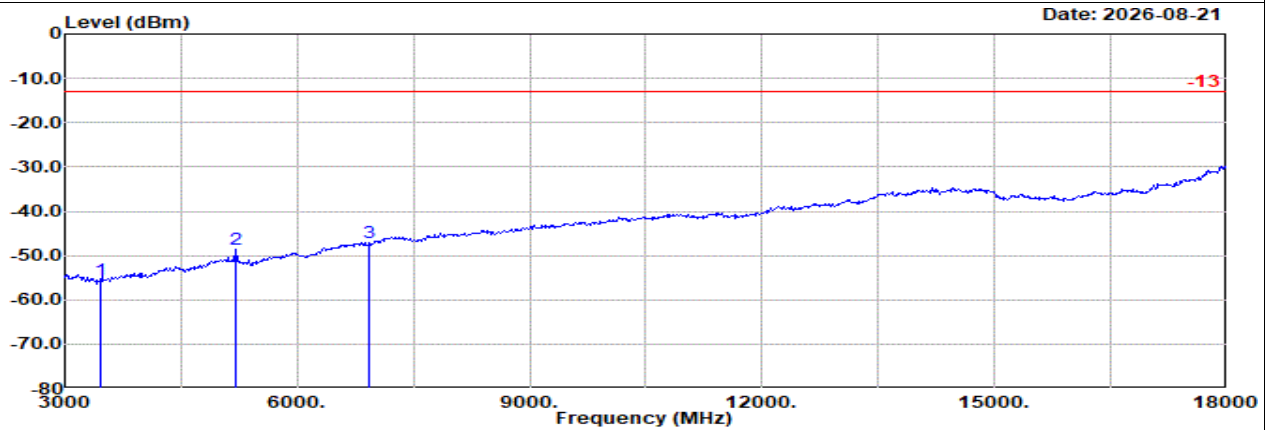
WCDMA B4 Ch1413

M



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Horizontal
: WCDMA Band4 CH1413

	Freq Level		Detector	Ant Factor	Ant Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3465.00	-55.65	RMS		29.60	-25.82	1.18	-95.23	34.62	-13.00	-42.65	Horizontal
2	5197.00	-51.23	RMS		33.20	-23.42	0.59	-95.23	33.63	-13.00	-38.23	Horizontal
3	6930.00	-47.49	RMS		35.80	-21.82	0.46	-95.23	33.30	-13.00	-34.49	Horizontal



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Vertical
: WCDMA Band4 CH1413

	Freq Level		Detector	Ant Factor	Ant Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3465.00	-55.62	RMS		29.60	-25.82	1.18	-95.23	34.65	-13.00	-42.62	Vertical
2	5197.00	-48.65	RMS		33.20	-23.42	0.59	-95.23	36.21	-13.00	-35.65	Vertical
3	6930.00	-47.16	RMS		35.80	-21.82	0.46	-95.23	33.63	-13.00	-34.16	Vertical

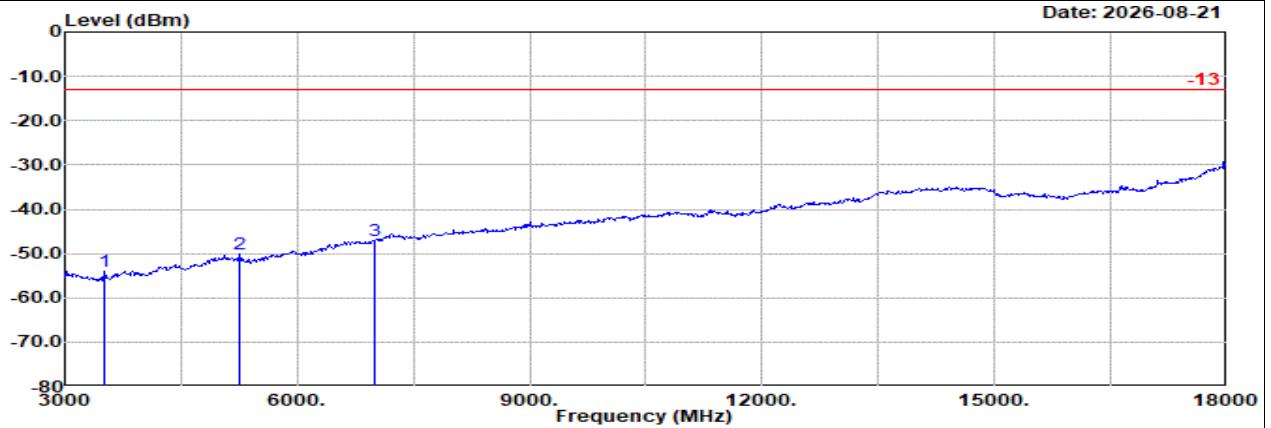


Ant. 0

Part 27L Mode 1

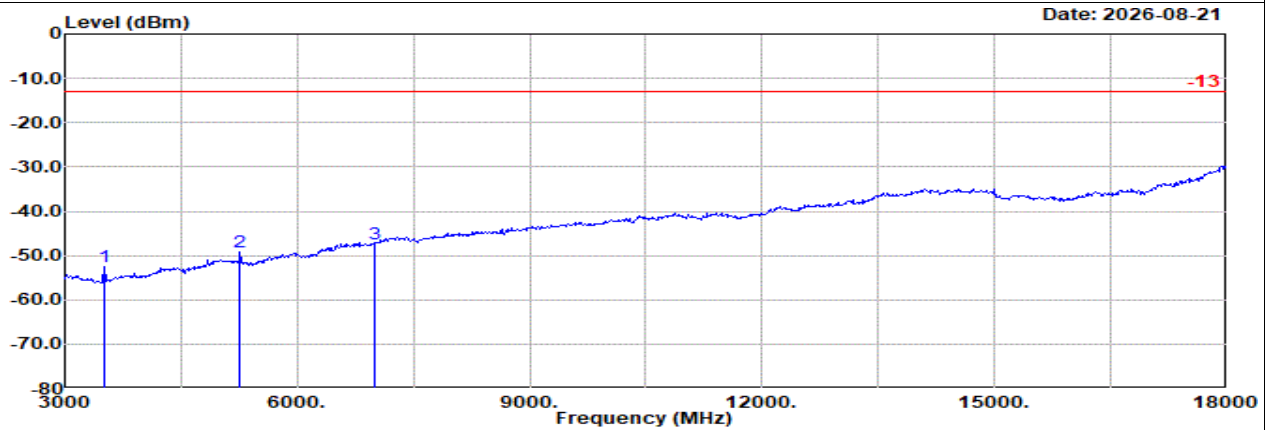
WCDMA B4 Ch1513

H



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Horizontal
: WCDMA Band4 CH1513

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3505.00	-54.04	RMS	29.61	-25.75	1.14	-95.23	36.19	-13.00	-41.04	Horizontal	
2	5257.00	-50.16	RMS	33.09	-23.36	0.61	-95.23	34.73	-13.00	-37.16	Horizontal	
3	7010.00	-47.18	RMS	35.88	-21.75	0.44	-95.23	33.48	-13.00	-34.18	Horizontal	



Site : 03CH12-HY
Condition: -13 3m 9120D-01212 Vertical
: WCDMA Band4 CH1513

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3505.00	-52.62	RMS	29.61	-25.75	1.14	-95.23	37.61	-13.00	-39.62	Vertical	
2	5257.00	-49.31	RMS	33.09	-23.36	0.61	-95.23	35.58	-13.00	-36.31	Vertical	
3	7010.00	-47.27	RMS	35.88	-21.75	0.44	-95.23	33.39	-13.00	-34.27	Vertical	

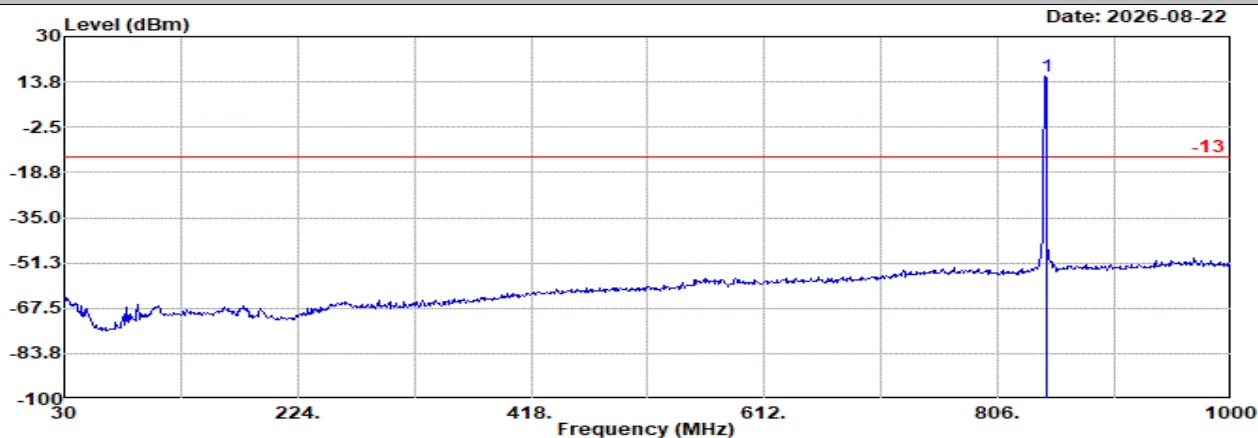


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Part 22H Mode 1

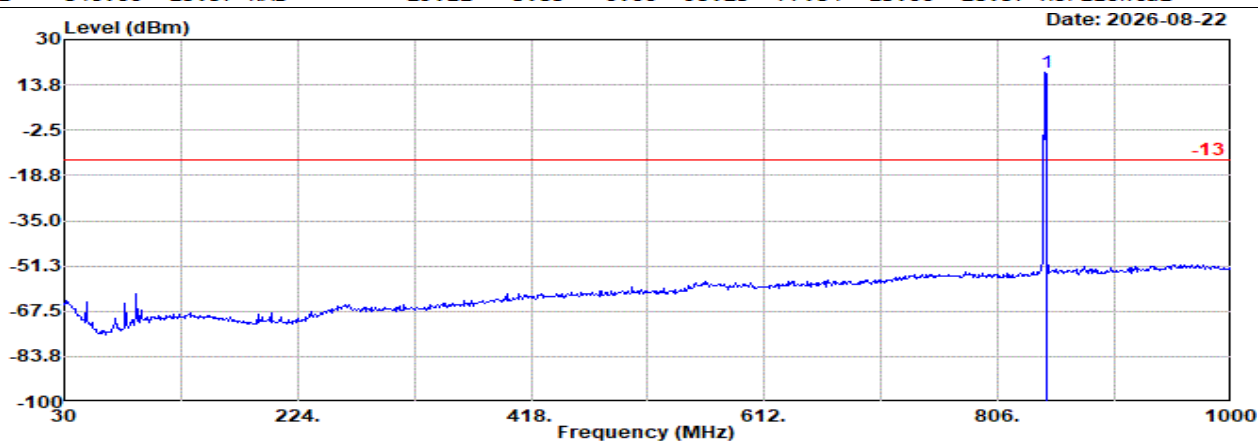
WCDMA B5 Ch4233

H



Site : 03CH12-HY
Condition: -13 3m Bilog_37059 & 01_251126 Horizontal
: WCDMA Band 5 Ch4233
: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	846.60	15.57	RMS	29.11	3.85	0.00	-95.23	77.84	-13.00	28.57	Horizontal



Site : 03CH12-HY
Condition: -13 3m Bilog_37059 & 01_251126 Vertical
: WCDMA Band 5 Ch4233
: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	846.60	18.09	RMS	29.11	3.85	0.00	-95.23	80.36	-13.00	31.09	Vertical