



FCC RADIO TEST REPORT

FCC ID : IHDT56AX5
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2651V
Applicant : Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer : Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

The product was received on Jun. 16, 2026 and testing was performed from Jun. 23, 2026 to Jul. 30, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures 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.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010



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History of this test report

Report No.	Version	Description	Issue Date
FG660814A	01	Initial issue of report	Aug. 05, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	Note
	§22.913 (a)(5)	Effective Radiated Power (GSM850) (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (GSM1900) (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	Note
3.4	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	Note
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	Note
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	Note
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	Note
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (GSM850) (WCDMA Band V) (GSM1900) (WCDMA Band II) (WCDMA Band IV)	Pass	-

Note:

- The differences between the parent device (FCC ID: IHDT56AW3) and the variant device (FCC ID: IHDT56AX5) are detailed in the ECR document.
- Radiated spurious emission measurements were performed as specified in the ECR document. Detailed results are provided in Appendix A.
- All conducted test results were referenced from FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310A). In accordance with FCC KDB 484596 D01 Referencing Test Data v03, conducted power spot-check measurements were performed on the variant device. The spot-check results demonstrate comparable RF performance between the parent and variant devices and support the validity of the referenced conducted test data. Detailed results are provided in Appendix B.
- The referenced data, FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310A) are not covered by TAF accreditation and are not considered TAF-accredited results.

**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: Keven Cheng

Report Producer: Yuri Huang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Specification subject to this standard	
General Specs	GSM/WCDMA/LTE/5G NR/ mmW, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11a/ax/be, GNSS, NFC,WPT and UWB
Antenna Type subject to this standard	WWAN: IFA/Loop/PIFA Antenna

Support band and evaluated information	
Supported band	GSM850(GPRG850), GSM 1900(GPRS1900) WCDMA B2,B4,B5
Evaluated and Tested band	GSM850(GPRG850), GSM 1900(GPRS1900) WCDMA B2,B4,B5

Band Power Class				
	PC3			
GSM850	V			
GSM1900	V			
WCDMA B2	V			
WCDMA B4	V			
WCDMA B5	V			

Max Antenna Gain information(dBi)						
Band	Ant 0	Ant 1	Ant3	Ant4		Main Ant. #
GSM850	-5.17	-8.7				0
GSM1900			-4.36	-5.19		3
WCDMA B2			-4.36	-5.19		3
WCDMA B4			-4.39	-4.73		3
WCDMA B5	-5.17	-8.7				0

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

EUT Information List	
IMEI	Performed Test Item
352595240018419	Radiated Spurious Emission

Specification of Accessory				
Battery 1	Brand Name	Motorola	Model Name	SH29
Battery 2	Brand Name	Motorola	Model Name	SH31
USB Cable 1	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86731
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103



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 TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH21-HY
Test Engineer	Jack Cheng, Ray Lung
Temperature (°C)	18~26
Relative Humidity (%)	50~70

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
- ♦ 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
- ♦ FCC KDB 484596 D01 Referencing Test Data v03

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 three orthogonal axis (X: flat, Y: portrait, Z: landscape), 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 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, data rates and positions were investigated.

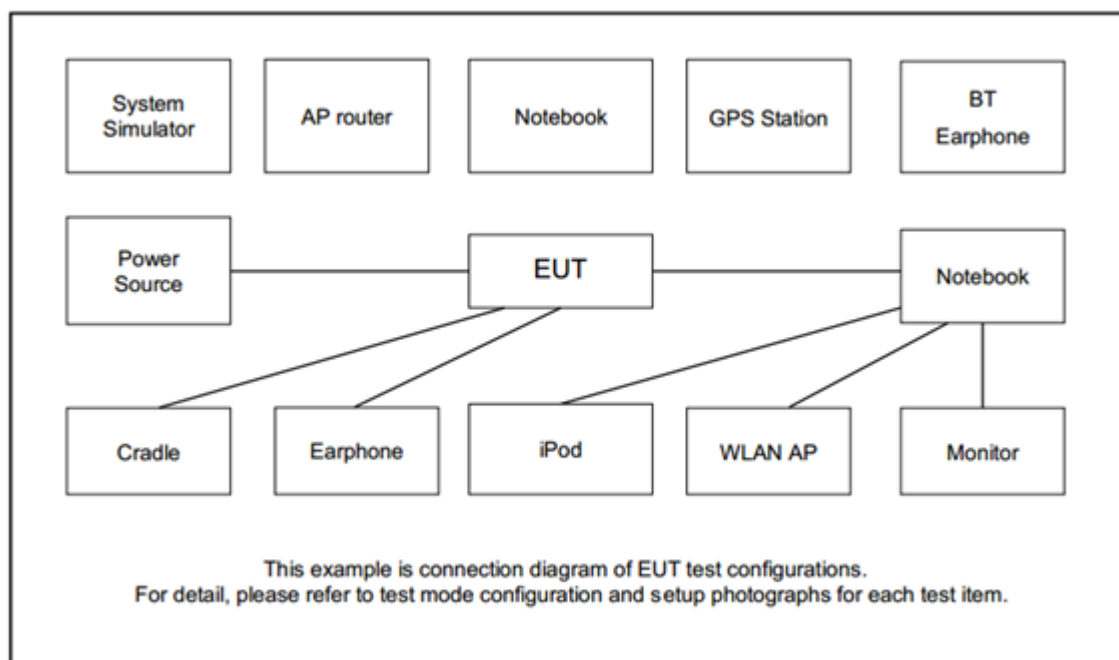
Test modes are chosen to be reported as the worst case configuration below:

Test Modes		
Band	Radiated TCs	Conducted TCs
GSM850	■ GSM Link ■ EDGE Class 8 Link	■ GSM Link ■ EDGE Class 8 Link
GSM1900	■ GPRS Class 8 Link ■ EDGE Class 8 Link	■ GPRS Class 8 Link ■ EDGE Class 8 Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link

In this report, the conducted output power was measured and compared with the referenced report to confirm consistency. Since the verification results met the acceptance criteria, please refer to the referenced report for the remaining conducted-related test results.

Radiated spurious emission measurements were performed as specified in the ECR document, and the detailed radiated test modes and test results are shown in Appendix A.

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.	Base Station	Anritsu	MT8820C	N/A	N/A	N/A

2.4 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

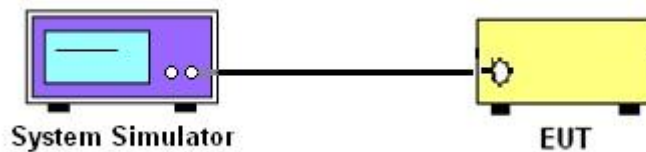
3 Conducted Test Result

3.1 Measuring Instruments

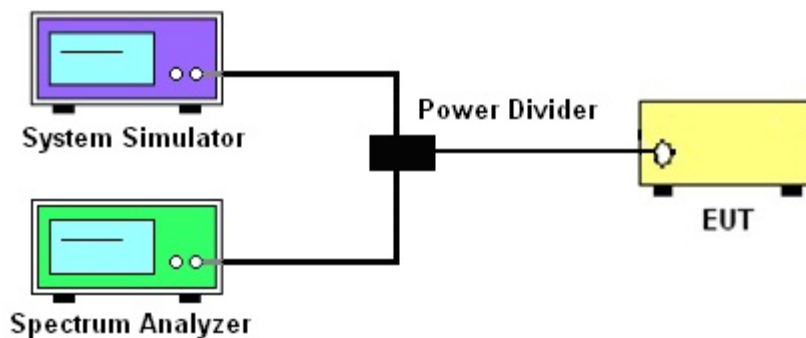
Please refer to the measuring equipment list in this test report.

3.1.1 Test Setup

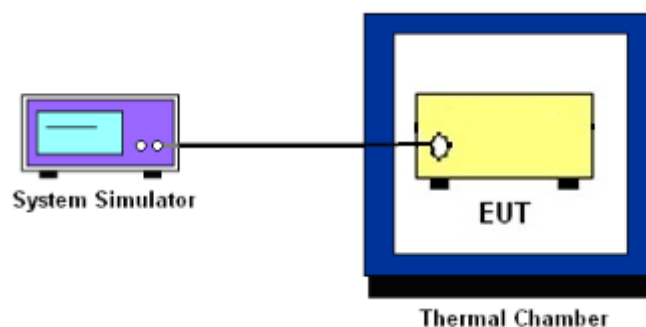
3.1.2 Conducted Output Power



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 FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310A).



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 GSM850 and WCDMA Band V

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

3.2.2 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.

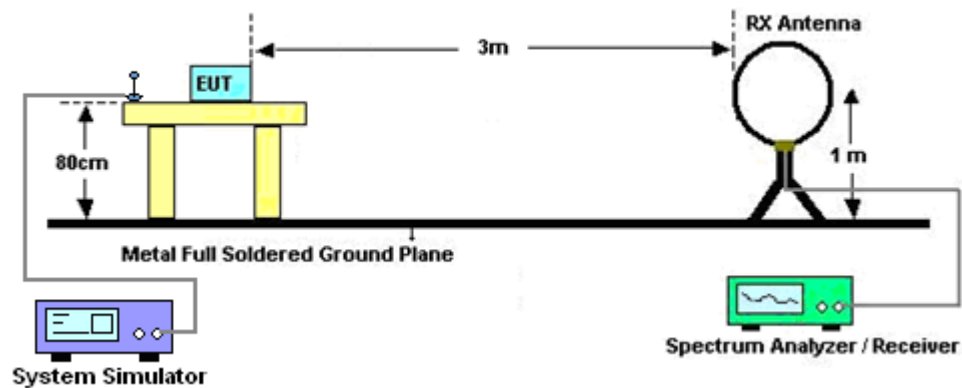
4 Radiated Test Items

4.1 Measuring Instruments

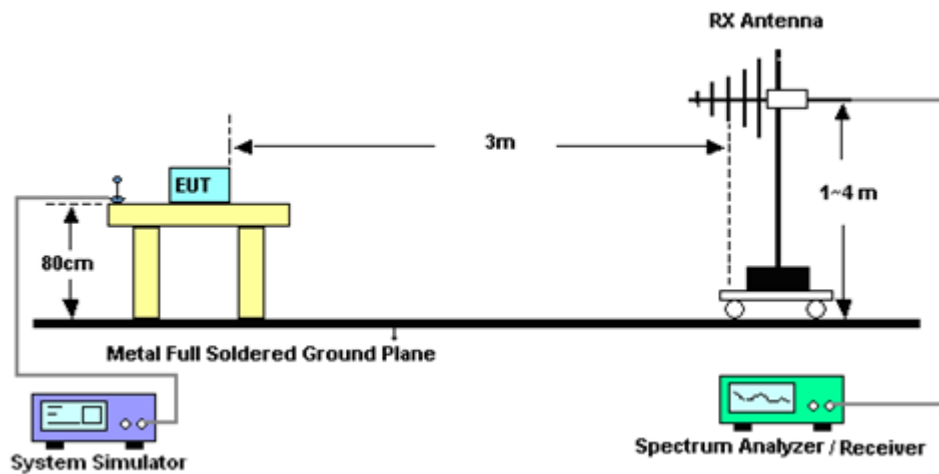
Please refer to the measuring equipment list in this test report.

4.2 Test Setup

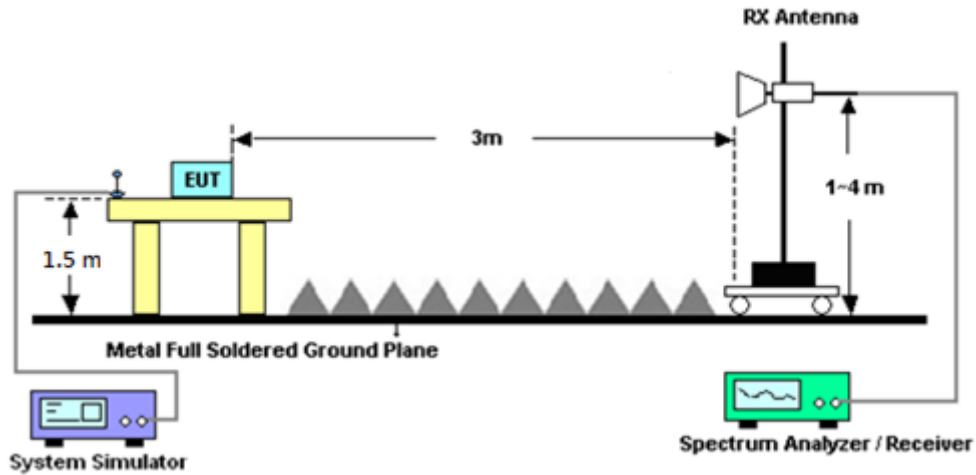
For radiated test below 30MHz



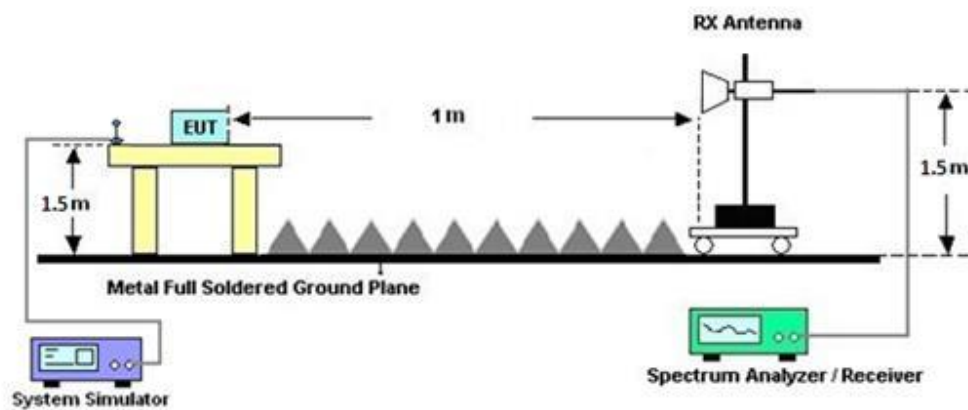
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix A.

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	Manufacturer	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	Jun. 23, 2026 ~ Jul. 30, 2026	Mar. 15, 2027	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03 A18EN	1GHz~18GHz	Aug. 07, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1450	18GHz~40GHz	May. 28, 2026	Jun. 23, 2026 ~ Jul. 30, 2026	May. 27, 2027	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Jun. 23, 2026 ~ Jul. 11, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	371607	30MHz~1GHz	Jun. 29, 2026	Jul. 12, 2026 ~ Jul. 30, 2026	Jun. 28, 2027	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY6217 0358	10Hz~44GHz	Sep. 09, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/ 2	9kHz~30MHz	Mar. 04, 2026	Jun. 23, 2026 ~ Jul. 30, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/ 2,80461 2/2,803 954/2	30MHz~40GHz	Aug. 11, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM-KM -1000	240906	30MHz~40GHz	Oct. 21, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP2115 68	N/A	Oct. 21, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001 053	N/A	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng, Ray Lung	Temperature :	21.1 ~ 25.7°C
		Relative Humidity :	55.8 ~ 63.2%

A1.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
41	GSM 1900	Part 24E	M	7520	-54.90	RMS	36.66	-21.17	1.55	-95.23	23.29	-13.00	-41.90	H	3
42	EDGE 1900	Part 24E	M	7520	-55.38	RMS	36.66	-21.17	1.55	-95.23	22.81	-13.00	-42.38	H	3
43	WCDMA B2	Part 24E	M	7520	-55.29	RMS	36.66	-21.17	1.55	-95.23	22.90	-13.00	-42.29	V	3
49	WCDMA B4	Part 27L	M	6930	-56.58	RMS	36.06	-21.58	1.44	-95.23	22.73	-13.00	-43.58	V	3

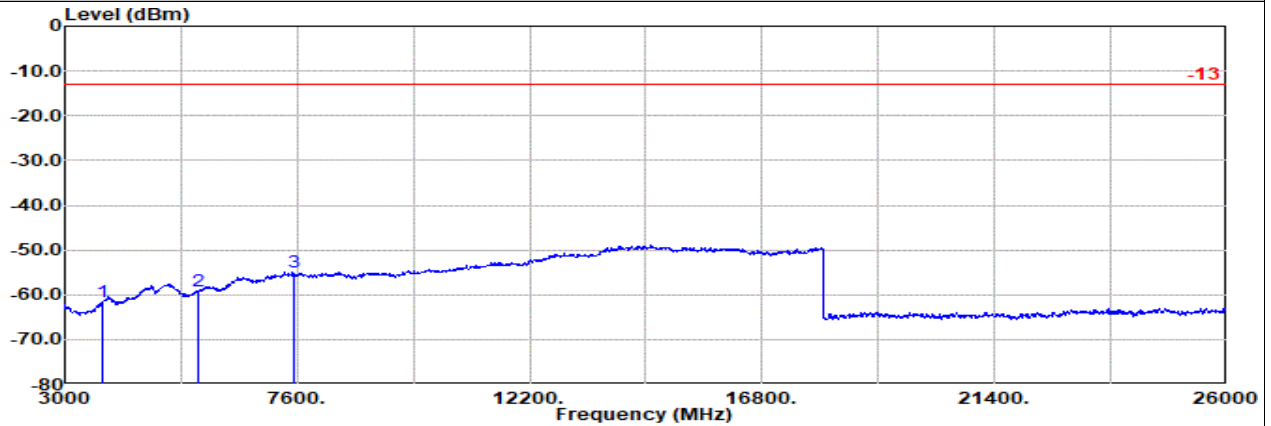


Ant. 3

Part 24E Mode 41

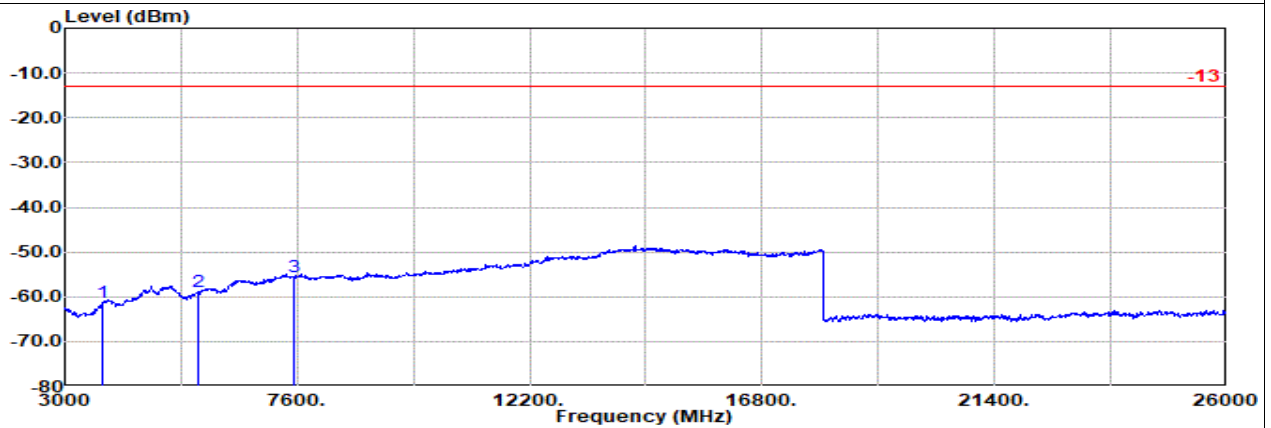
GSM 1900 Ch661

M



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Horizontal
: GSM 1900 Ch661

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	3760.00	-61.45	RMS	30.04	-23.62	1.67	-95.23	25.69	-13.00	-48.45	Horizontal
2	5640.00	-59.04	RMS	33.06	-21.84	1.54	-95.23	23.43	-13.00	-46.04	Horizontal
3	7520.00	-54.90	RMS	36.66	-21.17	1.55	-95.23	23.29	-13.00	-41.90	Horizontal



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Vertical
: GSM 1900 Ch661

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	3760.00	-61.37	RMS	30.04	-23.62	1.67	-95.23	25.77	-13.00	-48.37	Vertical
2	5640.00	-58.96	RMS	33.06	-21.84	1.54	-95.23	23.51	-13.00	-45.96	Vertical
3	7520.00	-55.43	RMS	36.66	-21.17	1.55	-95.23	22.76	-13.00	-42.43	Vertical

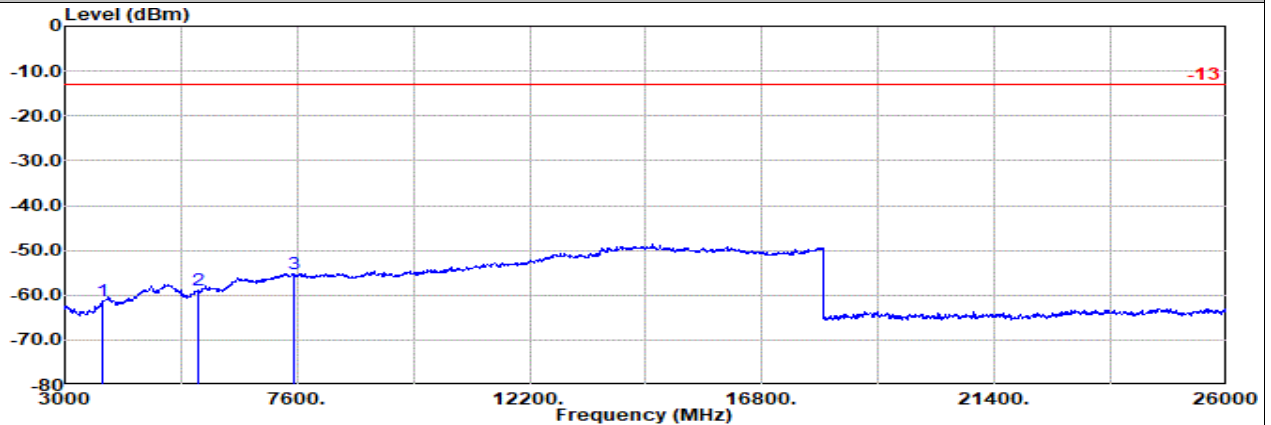


Ant. 3

Part 24E Mode 42

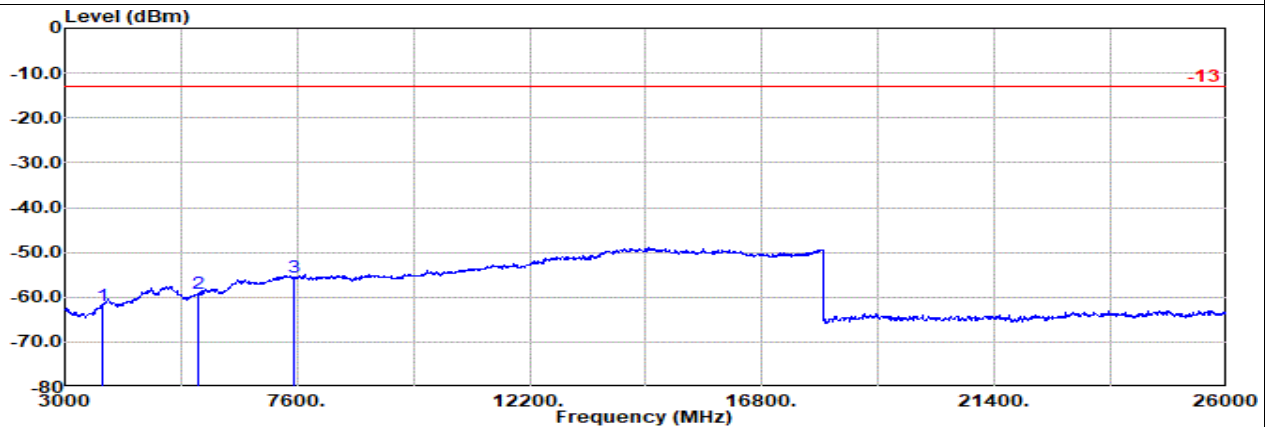
EDGE 1900 Ch661

M



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Horizontal
: EDGE 1900 Ch661

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB		
1	3760.00	-61.38	RMS	30.04	-23.62	1.67	-95.23	0.00	-13.00	-48.38	Horizontal			
2	5640.00	-58.90	RMS	33.06	-21.84	1.54	-95.23	23.57	-13.00	-45.90	Horizontal			
3	7520.00	-55.38	RMS	36.66	-21.17	1.55	-95.23	22.81	-13.00	-42.38	Horizontal			



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Vertical
: EDGE 1900 Ch661

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB		
1	3760.00	-61.82	RMS	30.04	-23.62	1.67	-95.23	25.32	-13.00	-48.82	Vertical			
2	5640.00	-59.23	RMS	33.06	-21.84	1.54	-95.23	23.24	-13.00	-46.23	Vertical			
3	7520.00	-55.53	RMS	36.66	-21.17	1.55	-95.23	22.66	-13.00	-42.53	Vertical			

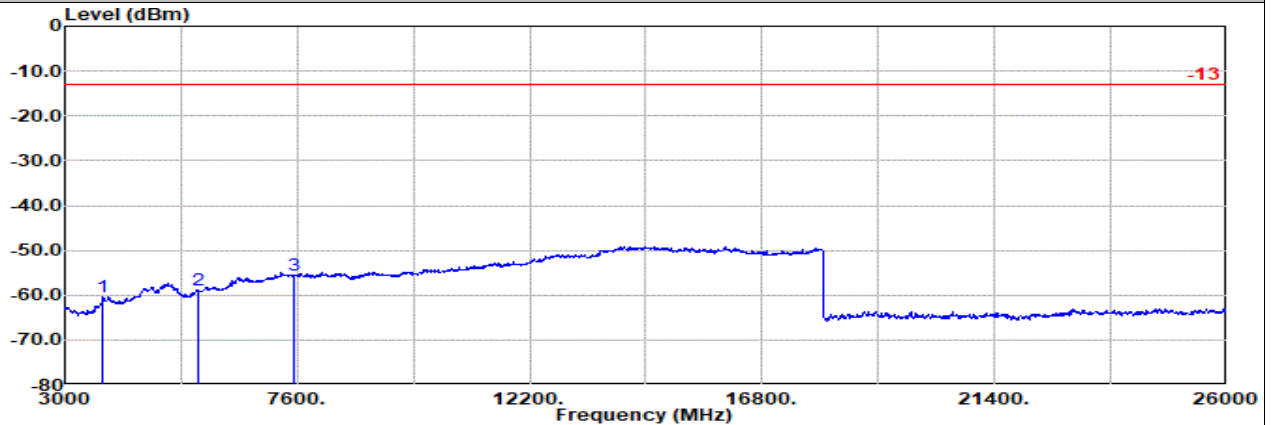


Ant. 3

Part 24E Mode 43

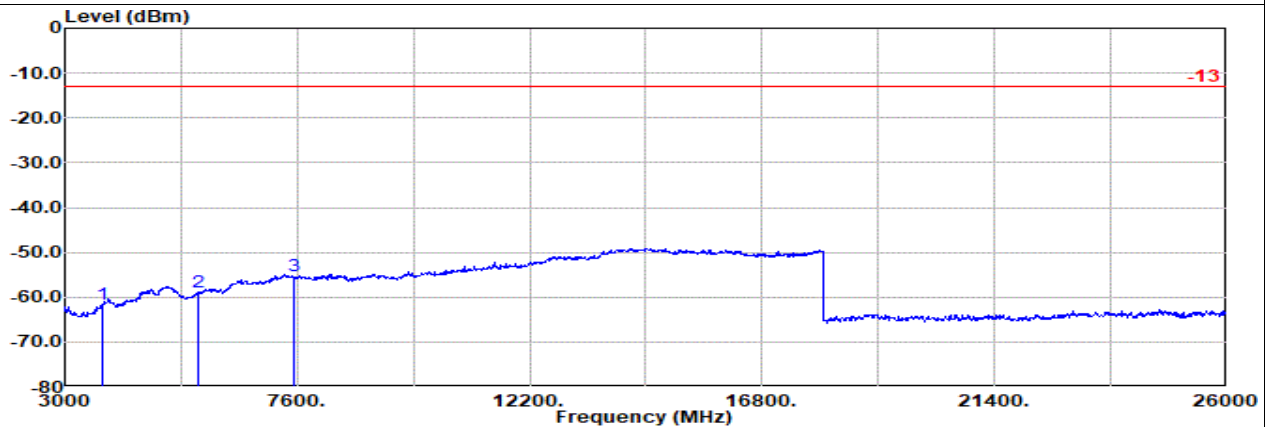
WCDMA B2 Ch9400

M



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Horizontal
: WCDMA B2 Ch9400

	Freq	Level	Detector	Ant	Amp\Cb	Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1				g		
	MHz	dBm		dB/m	dB	dB		dBuV	dBm	dB	
1	3760.00	-60.34	RMS	30.04	-23.62	1.67	-95.23	26.80	-13.00	-47.34	Horizontal
2	5640.00	-58.99	RMS	33.06	-21.84	1.54	-95.23	23.48	-13.00	-45.99	Horizontal
3	7520.00	-55.47	RMS	36.66	-21.17	1.55	-95.23	22.72	-13.00	-42.47	Horizontal



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Vertical
: WCDMA B2 Ch9400

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	3760.00	-61.59	RMS	30.04	-23.62	1.67	-95.23	25.55	-13.00	-48.59	Vertical
2	5640.00	-58.98	RMS	33.06	-21.84	1.54	-95.23	23.49	-13.00	-45.98	Vertical
3	7520.00	-55.29	RMS	36.66	-21.17	1.55	-95.23	22.90	-13.00	-42.29	Vertical

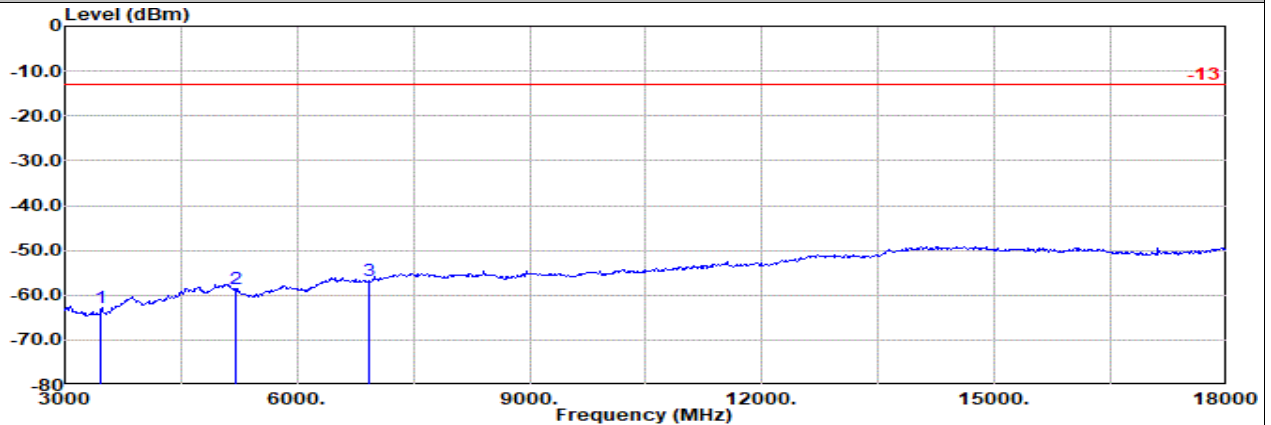


Ant. 3

Part 27L Mode 49

WCDMA B4 Ch1413

M

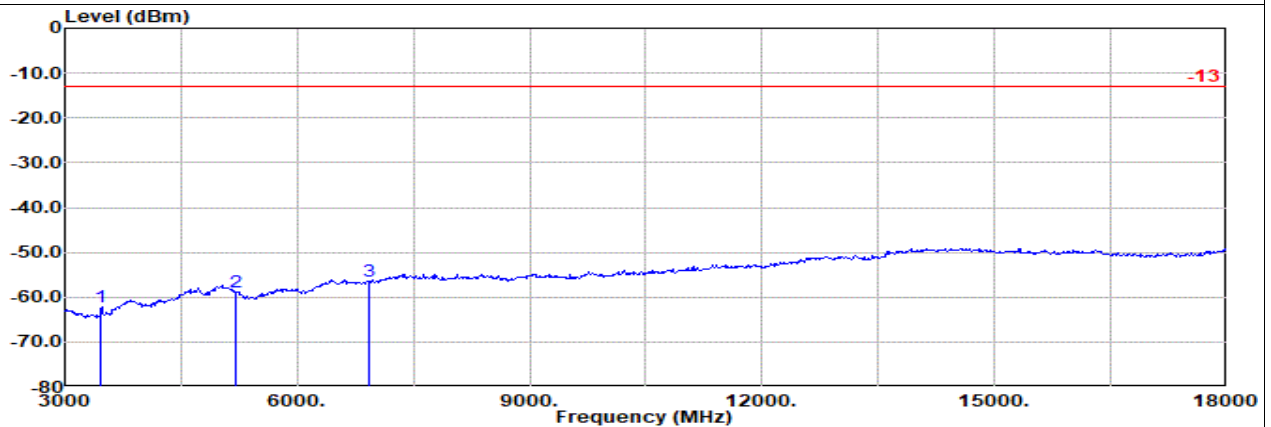


Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Horizontal

: WCDMA B4 Ch1413

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3465.00	-62.87	RMS	28.49	-24.00	1.84	-95.23	26.03	-13.00	-49.87	Horizontal			
2	5198.00	-58.70	RMS	32.50	-21.72	2.00	-95.23	23.75	-13.00	-45.70	Horizontal			
3	6930.00	-56.82	RMS	36.06	-21.58	1.44	-95.23	22.49	-13.00	-43.82	Horizontal			



Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Vertical

: WCDMA B4 Ch1413

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3465.00	-62.06	RMS	28.49	-24.00	1.84	-95.23	26.84	-13.00	-49.06	Vertical			
2	5198.00	-58.73	RMS	32.50	-21.72	2.00	-95.23	23.72	-13.00	-45.73	Vertical			
3	6930.00	-56.58	RMS	36.06	-21.58	1.44	-95.23	22.73	-13.00	-43.58	Vertical			

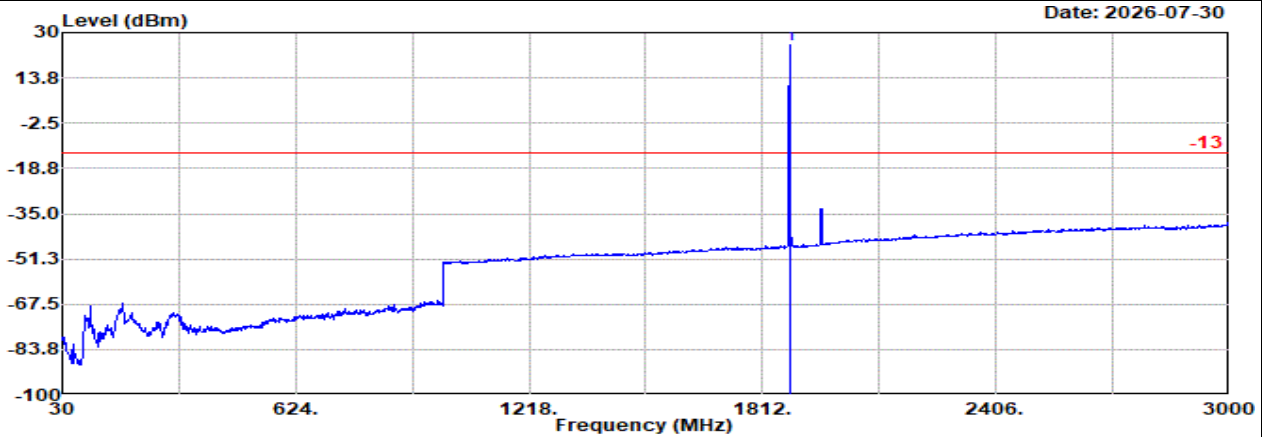


Ant. 3

Part 24E Mode 41

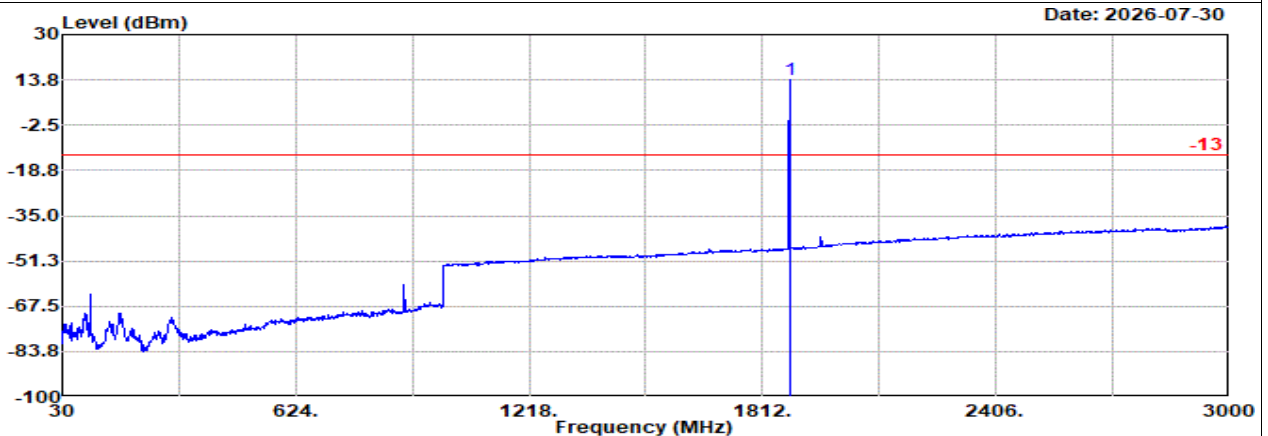
GSM 1900 Ch661

M



Site : 03CH21-HY
Condition: -13 3m LF_63303&001_251126 Horizontal
: GSM 1900 Ch661
: #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	1880.00	25.82	RMS	25.10	7.51	0.60	-95.23	87.84	-13.00	38.82	Horizontal



Site : 03CH21-HY
Condition: -13 3m LF_63303&001_251126 Vertical
: GSM 1900 Ch661
: #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	1880.00	13.63	RMS	25.10	7.51	0.60	-95.23	75.65	-13.00	26.63	Vertical



Appendix B. Spot Check Verification Data Section

Conclusion:

Conducted power spot-check measurements were performed on the worst-case channel identified for each band in the reference model (FCC ID: IHDT56AW3) to verify the applicability of the referenced conducted test data in accordance with FCC KDB 484596 D01 Referencing Test Data v03.

The spot-check results demonstrate comparable RF performance between the parent device and the variant device, with all observed differences within the acceptance criterion of 3 dB. Therefore, the referenced test data are considered representative of the variant device.

Test Item	Mode	IHDT56AW3 Parent Worst mode Test Result	IHDT56AW5 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	Burst Average Power (dBm)				
	GSM850-ANT0	32.61	32.32	0.29	3
	GSM850-ANT1	32.52	32.47	0.05	3
	GSM1900-ANT3	29.37	29.25	0.12	3
	GSM1900-ANT4	28.16	27.89	0.27	3
	WCDMA-B5-ANT0	23.49	23.21	0.28	3
	WCDMA-B5-ANT1	23.26	23.19	0.07	3
	WCDMA-B2-ANT3	23.76	23.45	0.31	3
	WCDMA-B4-ANT3	23.75	23.31	0.44	3
	WCDMA-B2-ANT4	22.74	22.28	0.46	3
	WCDMA-B4-ANT4	22.76	22.48	0.28	3



Test Items	Remark
Conducted Output Power	Spot Check Evaluation
Effective Radiated Power	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Equivalent Isotropic Radiated Power	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Peak-to-Average Ratio	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Occupied Bandwidth	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Band Edge Measurement	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Conducted Emission	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Frequency Stability Temperature & Voltage	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FR5N1310A).
Radiated Spurious Emission	Spot-Check Test Results for ant 0/1/2 Other Ant Full Test Results (See Appendix A)



Appendix D. Original Report