



Test Report

Report No.:RKEYS251201088

Date: Jan. 22, 2026

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FCC RF TEST REPORT

For

Product:4+2G Built-in Antenna GPS Tracker

**Model:ZT-24N, ZT-100, ZT-30, ZT-2, ZT-50O, ZT-24N-mini, ZT-24N-Ultra, ZT-60,
ZT-900S**

FCC ID:2BT3D-ZT-24N

Report No.: RKEYS251201088

Issued for

Zhejiang ZenCloud Information Technology Co., Ltd.

**Room 16-3-450, No. 2288 Jiangnan Road, Meixu Sub-district, High-tech Zone,
Ningbo City, Zhejiang Province, China**

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

**Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong,
China**

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1. TEST CERTIFICATION

Product:	4+2G Built-in Antenna GPS Tracker
Trade mark:	ZenTracker
Main Model:	ZT-24N
Model list:	ZT-100, ZT-30, ZT-2, ZT-50O, ZT-24N-mini, ZT-24N-Ultra, ZT-60, ZT-900S
Applicant :	Zhejiang ZenCloud Information Technology Co., Ltd.
Address:	Room 16-3-450, No. 2288 Jiangnan Road, Meixu Sub-district, High-tech Zone, Ningbo City, Zhejiang Province, China
Manufacturer:	Zhejiang ZenCloud Information Technology Co., Ltd.
Address:	Room 16-3-450, No. 2288 Jiangnan Road, Meixu Sub-district, High-tech Zone, Ningbo City, Zhejiang Province, China
Sample Receive Date:	Dec. 01, 2025
Test Date:	Dec. 05, 2025~Jan. 22, 2026
Applicable Standards:	FCC 47, CFR Part 2 FCC 47, CFR Part 22(H) FCC 47, CFR Part 24(E)
Application Purpose	Original Grant

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

Evan Fang / Engineer



Approved by:

Bruce Zhang / Manager

2. TEST SUMMARY

FCC Rules	Description of Test	Result
§ 2.1046	Conducted Output Power	Report only
§ 22.913(a)(5)	Effective Radiated Power(GSM 850)	Pass
§ 24.232(c)	Equivalent Isotropic Radiated Power(GSM 1900)	Pass
§ 24.232(d)	Peak-to-Average Ratio	Pass
§ 2.1049	Occupied Bandwidth	Pass
§ 2.1051 § 22.917	Conducted Band edge (GSM 850)	Pass
§ 2.1051 § 24.238(a)	Conducted Band edge (GSM 1900)	Pass
§ 2.1051 § 22.917	Conducted Spurious Emission(GSM 850)	Pass
§ 2.1051 § 24.238(a)	Conducted Spurious Emission(GSM 1900)	Pass
§ 2.1055 § 22.355	Frequency Stability Temperature & Voltage(GSM 850)	Pass
§ 2.1055 § 24.235	Frequency Stability Temperature & Voltage(GSM 1900)	Pass
§ 2.1053 § 22.917	Radiated Spurious Emission(GSM 850)	Pass
§ 2.1053 § 24.238(a)	Radiated Spurious Emission(GSM 1900)	Pass

3. TEST SITE

3.1. TEST FACILITY

Guangdong KEYS Testing Technology Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

3.2. MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Conducted Spurious Emission & Bandedge	$\pm 2.8\text{dB}$
Radiated Spurious Emission(30MHz-1GHz)	$\pm 4.5\text{dB}$
Radiated Spurious Emission (1GHz-6GHz)	$\pm 5.2\text{dB}$
Radiated Spurious Emission (6GHz-18GHz)	$\pm 5.3\text{dB}$
Radiated Emission (18GHz-40GHz)	$\pm 5.4\text{dB}$
RF output power,Conducted	$\pm 0.9\text{dB}$
Occupied bandwidth	$\pm 1.9\%$
Frequency stability	$\pm 37\text{kHz}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3.3. TEST ENVIRONMENT CONDITION

Ambient Temperature:	24~25°C
Ambient Relative Humidity:	55~60 %

4. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	4m*4m*4m	KEYS-EL-232	Oct. 12, 2024	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	KEYS-EL-205	Mar. 03, 2025	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	KEYS-EL-209	Mar. 06, 2025	3 Year
Preamplifier	HP	8447F	KEYS-EL-210	Mar. 03, 2025	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9120D	KEYS-EL-239	Mar. 06, 2025	3 Year
Preamplifier	/	1-18-53G22	KEYS-EL-240	Mar. 03, 2025	1 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	KEYS-EL-230	Oct. 12, 2024	5 Year
Signal Analyzer	Keysight	N9020A	KEYS-EL-238	Mar. 03, 2025	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	KEYS-EL-269	Mar. 03, 2025	1 Year
WDEBAND RADIOCOMMUNIC ATION TESTER	Rohde&Schwarz	CMW500	KEYS-EL-236	Mar. 03, 2025	1 Year
18-40GHz Antenna	COM-MW	ZLB7-18-40G- 777	KEYS-EL-276	May 19, 2025	1 Year



18-40GHz Preamplifier	QUANJUDA	LNA-18004000 -50G35	KEYS-EL-277	May 17, 2025	1 Year
Filter	WCS Technology	ZBSF6-C2400- 2483.5-294	KEYS-EL-270	May 17, 2025	1 Year
Filter group	WCS Technology	/	KEYS-EL-290	May 17, 2025	1 Year
RF Cable	Rosenberger	/	KEYS-EL-278	May 17, 2025	3 Year
RF Cable	COM-MW	DCA9-2.92M8 0002.92M3.6-1 304	KEYS-EL-279	May 17, 2025	3 Year
DC Power	Agilent	E3632A	KEYS-EL-243	Mar. 03, 2025	1 Year
Temperature Chamber	Guangke	GK-TH-1000	KEYS-EL-139	Oct.11,2025	1 Year
Power Meter	Agilent	E4417A	KEYS-EL-260	May 17, 2025	1 Year
Power Probe	Agilent	E9304A	KEYS-EL-261	May 17, 2025	1 Year
RF Test Software	WCS Technology	Cellular-Regula tory	Version 25.04.1401		
RSE Test Software	Tonscend	JS13-RSE	Version 5.0.0		

5. EUT DESCRIPTION

Product	4+2G Built-in Antenna GPS Tracker
Test Model	ZT-24N
Additional Model	ZT-100, ZT-30, ZT-2, ZT-50O, ZT-24N-mini, ZT-24N-Ultra, ZT-60, ZT-900S
FCC ID	2BT3D-ZT-24N
Antenna Type	Internal Antenna
Antenna Gain	GSM 850:-0.56dBi GSM 1900:-0.48dBi
Operation Frequency	GSM 850:824MHz-849MHz(TX),869MHz-894MHz(RX) GSM 1900:1850MHz-1910MHz(TX),1930MHz-1990MHz(RX)
Modulation Type	GSM/GPRS:GMSK, EGPRS:8PSK
Voltage Range	DC 12V
Temperature Range	-20~50℃
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) Models difference: All models are same as the samples except model name,they have the same structure/circuit. 4) The test results in the report only apply to the tested sample. 5) The Antenna Gain is provided by the client and the client is responsible for the validity. KEYS assumes no liability in this regard.	

5.1. DESCRIPTION OF TEST CONFIGURATION

Test channel list is as below:

Band	TX Frequency	Lowest	Middle	Highest
GSM/GPRS/EGPRS 850	TX 824MHz-849MHz	Channel 128	Channel 128	Channel 128
		824.2MHz	836.6MHz	848.8MHz

Band	TX Frequency	Lowest	Middle	Highest
GSM/GPRS/EGPRS 1900	TX 1850MHz-1910MHz	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0MHz	1909.8MHz

5.2. EQUIPMENT MODIFICATIONS

No modifications made to the EUT during the testing

6. TEST METHODOLOGY

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

ANSIC63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
FCC 47 CFR Part 2	Frequency allocations and radio treaty matters, general rules and regulations.
FCC 47 CFR Part 22	Public Mobile Services
FCC 47 CFR Part 24	Personal Communications Services.
FCC KDB 971168 D01	Power Meas License Digital Systems v03r01

6.1. CONFIGURATION AND MODE

Test Mode	Test Mode Description
GSM 850	GSM
	GPRS
	EGPRS
GSM 1900	GSM
	GPRS
	EGPRS

7. SETUP OF EQUIPMENT UNDER TEST

7.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment

No.	Equipment	Model	Serial No.	Manufacturer
1	/	/	/	/

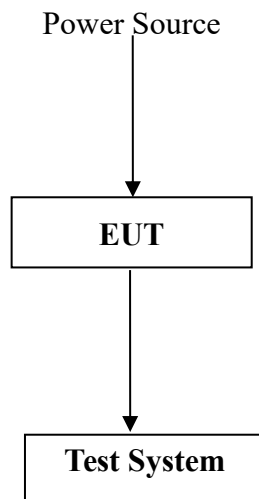
Support Cable

No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
2	/	/	/	/

Note: 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7.2. BLOCK DIAGRAM OF EUT CONFIGURATION

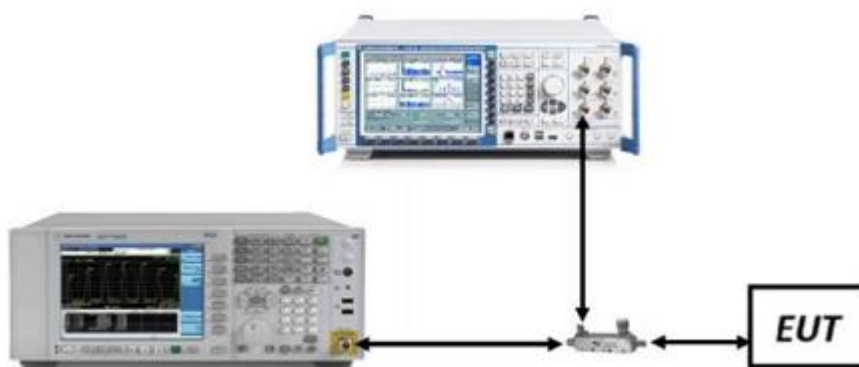


8. TEST RESULTS AND MEASUREMENT DATA

8.1. CONDUCTED OUTPUT POWER AND ERP/EIRP

Test Requirement:	§2.1046 §22.913(a)(5) §24.232(c)
Test Mode:	See section 6.2
Limit:	GSM 850:ERP ≤ 7W(38.45dBm) GSM 1900:EIRP ≤ 2W(33.00dBm) 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
Test Procedure:	1. The transmitter output port was connected to base station.. 2. Set EUT at maximum power through base station. 3. Select lowest, middle, and highest channels for each band and different modulation. 4. Measure the maximum burst average power.
Test Result:	PASS

8.1.1. Test Setup:





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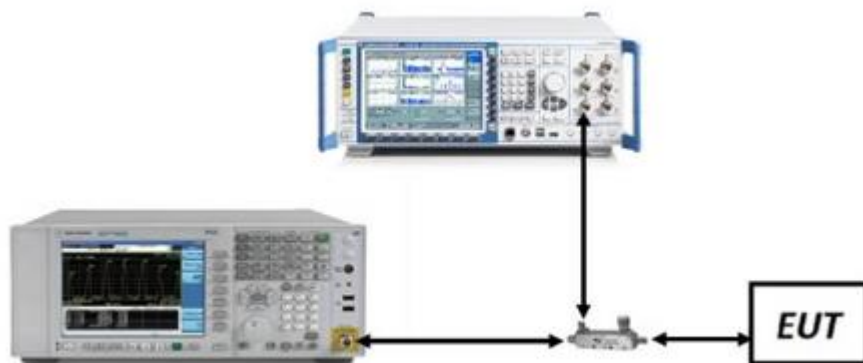
8.1.2. Test Result

Please refer to Appendix RF Test Data of GSM.

8.2. PEAK-TO-AVERAGE RATIO

Test Requirement:	§ 24.232(d)
Test Mode:	See section 6.2
Limit:	Power Complementary Cumulative Distribution Function(CCDF)curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Procedure:	The testing follows ANSI C63.26-2015 Section 5.2.6 1. The EUT was connected to spectrum and system simulator via a power divider 2. Using the CCDF measurement of spectrum analyzer; 3. Set $RBW \geq OBW$ or specified reference bandwidth; 4. Set the number of counts to a value that stabilizes the measured CCDF curve; 5. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %. 6. Record the deviation as Peak to Average Ratio.
Test Result:	PASS

8.2.1. Test Setup:



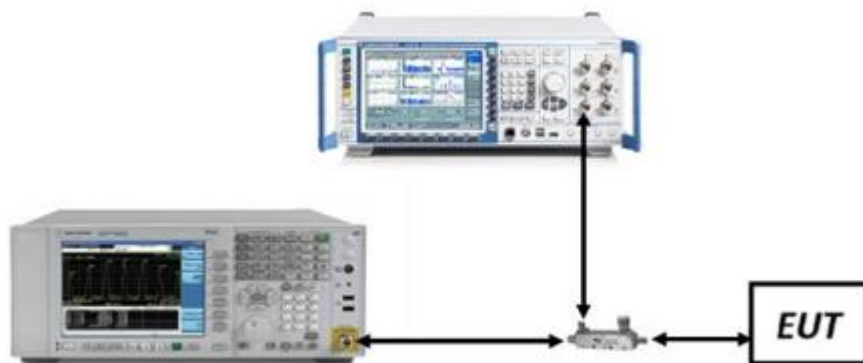
8.2.2. Test Result

Please refer to Appendix RF Test Data of GSM.

8.3. OCCUPIED BANDWIDTH

Test Requirement:	§2.1049
Test Mode:	See section 6.2
Limit:	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.
Test Procedure:	The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99dB) 1. The EUT was 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 “-26 dB down amplitude” as equal to (Reference Value -X). 6. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.
Test Result:	PASS

8.3.1. Test Setup:



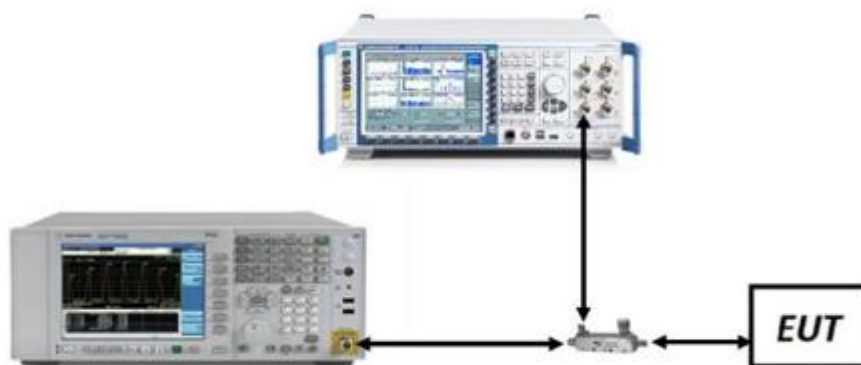
8.3.2. Test Result

Please refer to Appendix RF Test Data of GSM.

8.4. CONDUCTED BAND EDGE

Test Requirement:	§2.1051 §22.917 §24.238(a)
Test Mode:	See section 6.2
Limit:	the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB
Test Procedure:	The testing follows FCC KDB 971168 D01 v03r01 Section 6.1. 1. The band edges of low and high channels for the highest RF powers were measured. 2. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge. 3. Beyond the 1 MHz band from the band edge, RBW=1MHz was used. 4. Set spectrum analyzer with RMS detector. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 6. Checked that all the results comply with the emission limit line.
Test Result:	PASS

8.4.1. Test Setup:





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8.4.2. Test Result

Please refer to Appendix RF Test Data of GSM.

8.5. CONDUCTED SPURIOUS EMISSIONS

Test Requirement:	§2.1051 §22.917 §24.238(a)
Test Mode:	See section 6.2
Limit:	$\leq -13\text{dBm}$
Test Procedure:	The testing follows FCC KDB 971168 D01 v03r01 Section 6.1. 1. The EUT was connected to spectrum analyzer and system simulator via a power divider. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. The conducted spurious emission for the whole frequency range was taken. 4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GH. VBW = 3*RBW. 5. Set spectrum analyzer with RMS detector 6. Taking the record of maximum spurious emission. 7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

8.5.1. Test Setup:



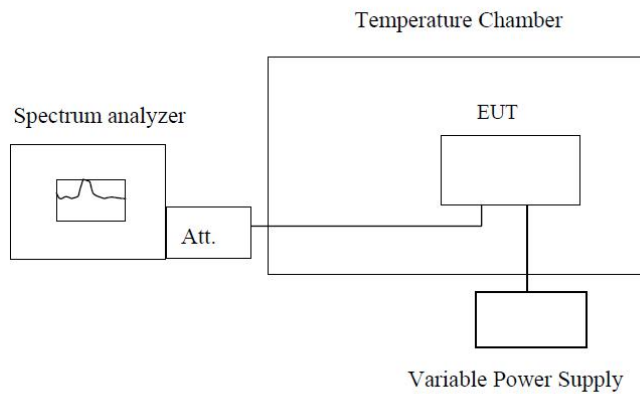
8.5.2. Test Result

Please refer to Appendix RF Test Data of GSM.

8.6. FREQUENCY STABILITY TEMPERATURE & VOLTAGE

Test Requirement:	§ 2.1055 § 22.355 § 24.235
Test Mode:	See section 6.2
Limit:	$\pm 2.5\text{ppm}$ (Part 22) Within the authorized bands of operation(Part 27)
Test Procedure:	Test Procedures for Temperature Variation The testing follows FCC KDB 971168 D01 v03r01 Section 9.0. 1. The EUT was set up in the thermal chamber and connected with the system simulator. 2. 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. 3. 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. Test Procedures for Voltage Variation The testing follows FCC KDB 971168 D01 v03r01 Section 9.0. 1. The EUT was placed in a temperature chamber at 20±5C and connected with the system simulator. 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT. 3. The variation in frequency was measured for the worst case.
Test Result:	Pass

8.6.1. Test Setup:



Note : Measurement setup for testing on Antenna connector

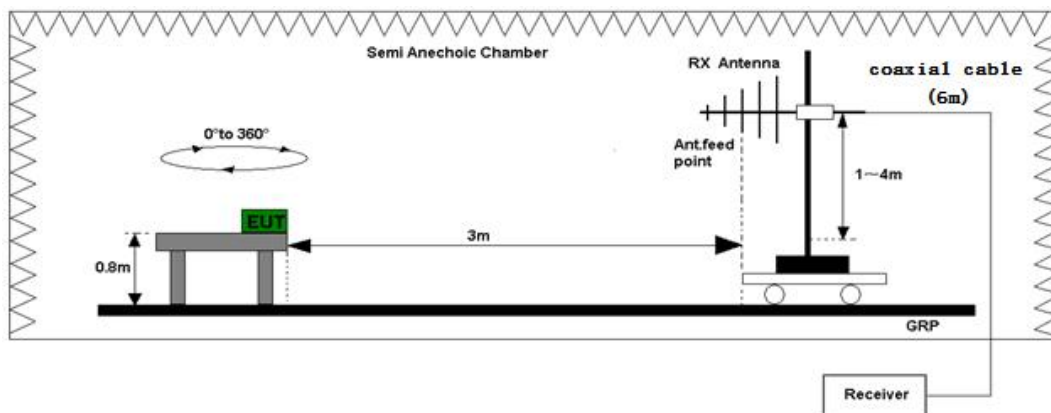
8.6.2. Test Result

Please refer to Appendix RF Test Data of GSM.

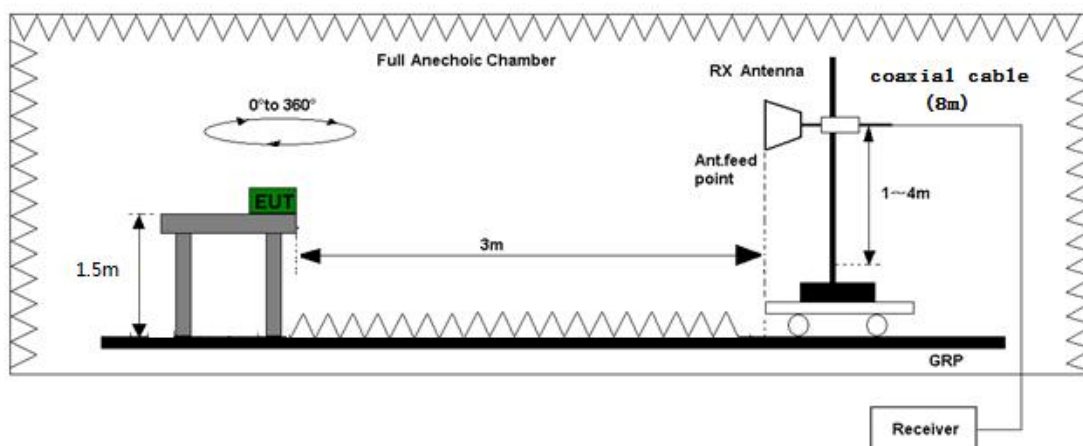
8.7. SPURIOUS RADIATED EMISSIONS

Test Requirement:	§ 2.1053 § 22.917 § 24.238(a)
Test Mode:	See section 6.2
Limit:	≤-13dBm
Test Procedure:	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. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground. 1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower. 2. The table was rotated 360 degrees to determine the position of the highest spurious emission. 3. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations. 4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission. 5. To convert spectrum reading E(dBuV/m) to EIRP(dBm). 6. limit is specified in the rules $EIRP(dBm) = Level(dBuV/m) + 20\log(d) - 104.77$, where d is the distance at which field strength. 7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss -Preamp Factor. 8. $ERP(dBm) = EIRP(dBm) - 2.15$ 9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	Pass

8.7.1. Test Setup:



Test set-up of radiated disturbance (30MHz to 1GHz)



Test set-up of radiated disturbance (Above 1GHz)

8.7.2. Test Result

Test Voltage	DC 12V
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GSM850:Lowest channel

Polarization	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm))	Limit (dBm)	Margin (dB)	Test distance (m)
Horizontal	1648.4	-87.05	23.51	-63.54	-13	-50.54	3
Horizontal	2472.6	-86.75	29.47	-57.28	-13	-44.28	3
Vertical	1648.4	-88.09	23.72	-64.37	-13	-51.37	3
Vertical	2472.6	-88.05	29.47	-58.58	-13	-45.58	3

GSM850:Middle channel

Polarization	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm))	Limit (dBm)	Margin (dB)	Test distance (m)
Horizontal	1673.20	-87.15	23.51	-63.64	-13	-50.64	3
Horizontal	2509.80	-89.75	29.47	-60.28	-13	-47.28	3
Vertical	1673.20	-86.77	23.72	-63.05	-13	-50.05	3
Vertical	2509.80	-91.41	29.47	-61.94	-13	-48.94	3

GSM850:Highest channel

Polarization	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm))	Limit (dBm)	Margin (dB)	Test distance (m)
Horizontal	1697.60	-90.69	23.51	-67.18	-13	-54.18	3
Horizontal	2546.40	-91.58	29.47	-62.11	-13	-49.11	3
Vertical	1697.60	-91.34	23.72	-67.62	-13	-54.62	3
Vertical	2546.40	-92.22	29.47	-62.75	-13	-49.75	3

Note:(1)Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain,the value was added to Original Receiver

Reading by the software automatically.

(2)Result= Reading + Correct Factor

(3)Margin=Level-limit

(4)The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test.

Subsequently, only the worst case emissions are reported

GSM1900:Lowest channel

Polarization	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm))	Limit (dBm)	Margin (dB)	Test distance (m)
Horizontal	3700.40	-84.81	32.11	-52.70	-13	-39.70	3
Horizontal	5550.60	-84.79	33.21	-51.58	-13	-38.58	3
Vertical	3700.40	-86.74	32.09	-54.65	-13	-41.65	3
Vertical	5550.60	-85.25	34.03	-51.22	-13	-38.22	3

GSM1900:Middle channel

Polarization	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm))	Limit (dBm)	Margin (dB)	Test distance (m)
Horizontal	3760.00	-81.14	32.11	-49.03	-13	-36.03	3
Horizontal	5640.00	-84.04	33.21	-50.83	-13	-37.83	3
Vertical	3760.00	-88.33	32.09	-56.24	-13	-43.24	3
Vertical	5640.00	-85.41	34.03	-51.38	-13	-38.38	3

GSM1900:Highest channel

Polarization	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm))	Limit (dBm)	Margin (dB)	Test distance (m)
Horizontal	3819.60	-87.79	32.11	-55.68	-13	-42.68	3
Horizontal	5729.40	-87.49	33.21	-54.28	-13	-41.28	3
Vertical	3819.60	-89.87	32.09	-57.78	-13	-44.78	3
Vertical	5729.40	-88.02	34.03	-53.99	-13	-40.99	3

Note:(1)Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain,the value was added to Original Receiver

Reading by the software automatically.

(2)Result= Reading + Correct Factor

(3)Margin=Level-limit

(4)The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test.

Subsequently, only the worst case emissions are reported

9. PHOTOGRAPHS OF EUT SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

10. PHOTOGRAPHS OF THE EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

*** End of Report ***