





# **FCC Test Report**

Report No.: AGC14499241203FR02

FCC ID : 2APPZ-W635W

APPLICATION PURPOSE : Original Equipment

**PRODUCT DESIGNATION**: Phone

BRAND NAME : Fanvi

**MODEL NAME** : W635W, W635W-S

**APPLICANT**: Fanvil Technology Co., Ltd

**DATE OF ISSUE** : May 14, 2025

**STANDARD(S)** : FCC Part 15 Subpart C §15.247

**REPORT VERSION**: V1.0

Attestation Of Global Compliance (Shenzhen) Co., Ltd



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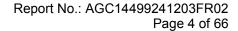
## **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	1	May 14, 2025	Valid	Initial Release	



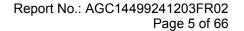
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## 1. General Information

Applicant	Fanvil Tachnology Co. Ltd.				
Applicant	Fanvil Technology Co., Ltd				
Address	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd				
	Road, Bao'an District, Shenzhen, 518101, China				
Manufacturer	Fanvil Technology Co., Ltd				
Address	10/F Block A, Dualshine Global Science Innovation Center, Honglang North 2nd				
Address	Road, Bao'an District, Shenzhen, 518101, China				
Factory	N/A				
Address	N/A				
Product Designation	Phone				
Brand Name	Fanvil				
Test Model	W635W				
Series Model	W635W-S				
Declaration of Difference	W635W does not have a scanning head, W635W-S has a scanning head.				
Date of receipt of test item	Dec. 10, 2024				
Date of Test	Dec. 10, 2024~Feb. 10, 2025				
Deviation from Standard	No any deviation from the test method				
Condition of Test Sample	Normal				
Test Result	Pass				
Test Report Form No	AGCER-FCC-BLE-V1				

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	Jouk Gai	
	Jack Gui (Project Engineer)	May 14, 2025
Reviewed By	Bibo zhang	
	Bibo Zhang (Reviewer)	May 14, 2025
Approved By	Angole Li	
	Angela Li (Authorized Officer)	May 14, 2025



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## 2. Product Information

## 2.1 Product Technical Description

Technology Type	Bluetooth Low Energy		
Frequency Band	2400MHz-2483.5MHz		
Operation Frequency Range	2402MHz-2480MHz		
Bluetooth Version	V5.0		
Modulation Type	BLE ⊠ GFSK 1Mbps □ GFSK 2Mbps		
Number of channels	40		
Carrier Frequency of Each Channel	40 Channels (37 Data channels + 3 Advertising channels)		
Channel Separation	2 MHz		
Maximum Transmitter Power	5.358dBm		
Hardware Version	RevB_WW		
Software Version	W635W_DG000_241128		
Antenna Designation	FPC Antenna		
Antenna Gain	3.46dBi		
Power Supply	DC 3.87V 4800mAh by battery or DC 5V from adapter		

#### Note:

- 1. The Phone W635W and the Phone Station CH25 are shipped as a set, and the set model name is V76.
- 2. The Phone W635W and the Phone Station CH001 are shipped as a set, and the set model name is W635W.
- 3. The Phone W635W-S and the Phone Station CH25 are shipped as a set, and the set model name is V76.
- The Phone W635W-S and the Phone Station CH001 are shipped as a set, and the set model name is W6 35W-S.



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## 2.2 Test Frequency List

Frequency Band	Channel Number	Test Frequency		
	0	2402 MHz		
	1	2404 MHz		
	:	:		
2400~2483.5MHz	19	2440MHz		
	:	:		
	38	2478 MHz		
	39	2480 MHz		
Note: f = 2402 + 2*k MHz, k = 0,, 39 f is the operating frequency (MHz); k is the operating channel.				



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#### 2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2APPZ-W635W**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

## 2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

## 2.5 Special Accessories

Not available for this EUT intended for grant.

#### 2.6 Equipment Modifications

Not available for this EUT intended for grant.

## 2.7 Antenna Requirement

#### Standard Requirement

#### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi

## EUT Antenna

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 3.46dBi.



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#### 3. Test Environment

## 3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

## 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

## A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

## FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

## IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



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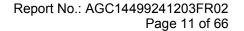
#### 3.3 Environmental Conditions

	Normal Conditions		
Temperature range (℃)	15 - 35		
Relative humidity range	20 % - 75 %		
Pressure range (kPa)	86 - 106		
Power supply	DC 3.87V		

## 3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF Power Density, Conducted	U <sub>c</sub> = ±2.6 dB
Uncertainty of Spurious Emissions, Conducted	U <sub>c</sub> = ±2 %
Uncertainty of Occupied Channel Bandwidth	U <sub>c</sub> = ±2 %
Uncertainty of Dwell Time	U <sub>c</sub> = ±2 %



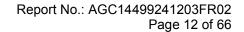


## 3.5 List of Equipment Use

• F	RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
$\boxtimes$	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23	
	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2024-02-01	2025-01-31	
$\boxtimes$	AGC-ER-A007	6dB Fixed Attenuator	Mini circuits	BW-S6-2W263A+	N/A	2025-01-30	2026-01-29	
	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2024-05-23	2025-05-22	
	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A	
$\boxtimes$	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A	

• F	Radiated Spurious Emission						
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
$\boxtimes$	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31
$\boxtimes$	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2025-01-14	2026-01-13
	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27
$\boxtimes$	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30
	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2025-3-27	2026-03-26
$\boxtimes$	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
$\boxtimes$	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
$\boxtimes$	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22
$\boxtimes$	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08

• A	AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23	
$\boxtimes$	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2024-02-01	2026-01-31	
$\boxtimes$	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27	





• Te:	Test Software						
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information		
	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71		
	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A		
$\boxtimes$	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6		
	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0		



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## 4. System Test Configuration

## 4.1 EUT Configuration

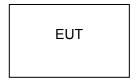
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 4.2 EUT Exercise

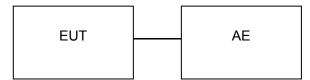
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

## 4.3 Configuration of Tested System

Radiated Emission Configure:



Conducted Emission Configure:





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## 4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☐ Test Accessories Come From The Laboratory

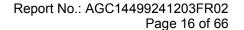
No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
INO.	Equipment	Manufacturei	Model No.	<u>'</u>	Cable
1	Adapter1#	Zhuzhoudachuan Electronic Technology CO., Ltd	DCTQC18WUS-C0	Input: AC 100-240V 50/60Hz, 0.5A Output: DC 5V 3A/9V 2A/12V 1.5A	
2	Adapter2#	Dongguan City Gangqi Electronic Co. LTD.	GQ15-050300-ZU	Input: AC 100-240V 50/60Hz, 0.5A Output: DC 5V 3A	
3	Adapter3#	CHENZHOU FRECOM ELECTRONICS CO., LTD	F12L20-050200SPAU	Input: AC 100-240V 50/60Hz, 0.3A Output: DC 5V 2A	1.0m unshielded
4	Charger1#	Fanvil Technology Co., Ltd	CH25		
5	Charger2#	Fanvil Technology Co., Ltd	CH001		
6	Battery	Shenzhen Guangwei Electronic Technology Co., Ltd.	FV-BA001	DC 3.87V 4800mAh	
7	LAN Cable				1.0m unshielded
8	USB Cable				3.0m unshielded
9	USB Cable				1.5m unshielded



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## 4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.209	Radiated Emission& Band Edge	Pass
7	§15.207	AC Power Line Conducted Emission	Pass



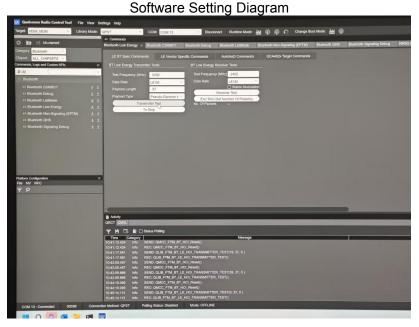


## 5. Description of Test Modes

Summary Table of Test Cases				
Test Item	Data Rate / Modulation			
rest item	Bluetooth-LE(1Mbps)/GFSK			
Radiated & Conducted Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered)  Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered)  Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered)			
AC Conducted Emission	Mode 1: Bluetooth Link + Battery + USB Cable 3m+ Base Charger1#+ AC Adapter1# Mode 2: Bluetooth Link + Battery + USB Cable 3m+ Base Charger1# AC Adapter2# Mode 3: Bluetooth Link + Battery + Base Charger2# + AC Adapter3# Mode 4: Bluetooth Link + Battery + AC Adapter3#			

#### Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. The battery is full-charged during the test.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.





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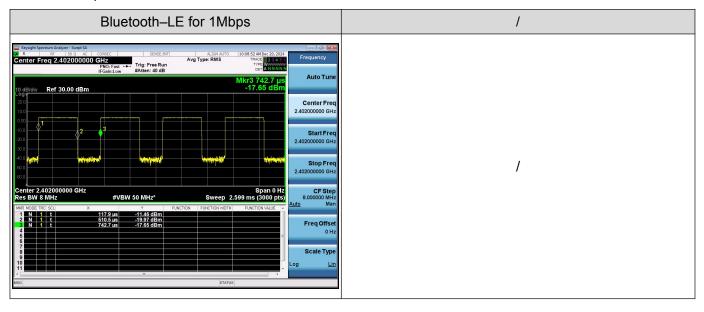
## 6. Duty Cycle Measurement

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(µs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	392.6	63	2.01	2.55

#### Remark:

- 1. Duty Cycle factor = 10 \* log (1/ Duty cycle)
- 2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value
- The test plots as follows:





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## 7. RF Output Power Measurement

## 7.1 Provisions Applicable

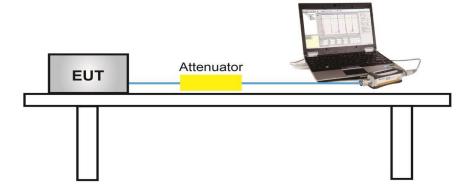
For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

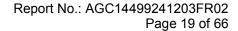
#### 7.2 Measurement Procedure

- For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the RBW≥DTS bandwidth
- Set the VBW≥[3 × RBW].
- 4. Span≥[3 × RBW].
- 5. Sweep= auto couple.
- 6. Detector Function= Peak.
- 7. Trace mode= Max hold.
- 8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- ☐ For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:
- 1. The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 2. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

## 7.3 Measurement Setup (Block Diagram of Configuration)

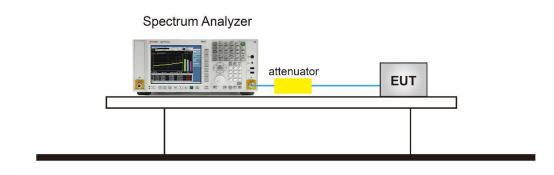
☐ For Average power test setup





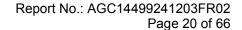


## ⊠ For peak power test setup



## 7.4 Measurement Result

Test Data of Conducted Output Power					
Test Mode Test Frequency (MHz) Peak Power Limits (dBm) Pass or Fai					
	2402	3.709	≤30	Pass	
GFSK_1Mbps	2440	5.237	≤30	Pass	
	2480	5.358	≤30	Pass	





**Test Graphs of Conducted Output Power** Center Freq 2.402000000 GHz
PNO: Fast
IFGain:Low Frequency Avg Type: Log-Pwr Avg|Hold: 100/100 Trig: Free Run #Atten: 40 dB TYP **Auto Tune** Mkr1 2.401 757 GHz 3.709 dBm Ref 30.00 dBm 10 dB/div Center Freq 2.402000000 GHz Start Freq 2.399500000 GHz Stop Freq 2.404500000 GHz **CF Step** 500,000 kHz Auto Freq Offset 0 Hz **Scale Type** <u>Lin</u> Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz Sweep 1.066 ms (1000 pts) **#VBW 5.0 MHz** Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Peak Power Frequency Avg Type: Log-Pwr Avg|Hold: 100/100 Center Freq 2.440000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast ↔ IFGain:Low **Auto Tune** Mkr1 2.439 752 GHz 5.237 dBm Ref 30.00 dBm 10 dB/div Center Freq 2.440000000 GHz Start Freq 2.437500000 GHz Stop Freq 2.442500000 GHz **CF Step** 500,000 kHz Freq Offset 0 Hz Scale Type

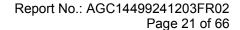
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Peak Power

**#VBW** 5.0 MHz

Span 5.000 MHz Sweep 1.066 ms (1000 pts)

Center 2.440000 GHz #Res BW 1.5 MHz









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#### 8. 6dB Bandwidth Measurement

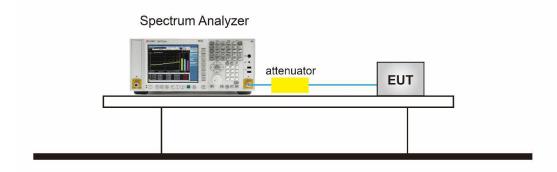
## 8.1 Provisions Applicable

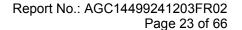
The minimum 6dB bandwidth shall be 500 kHz.

#### 8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 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.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- 4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) ≥ 3 \* RBW.
- 5. Measure and record the results in the test report.

## 8.3 Measurement Setup (Block Diagram of Configuration)





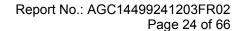


#### 8.4 Measurement Results

Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	ode Test Frequency Occupied Bandwidth DTS BW DTS BW (MHz) Pass or Fail				
	2402	1.042	0.673	≥0.5	Pass
GFSK_1Mbps	2440	1.040	0.669	≥0.5	Pass
	2480	1.042	0.671	≥0.5	Pass

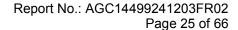
**Test Graphs of Occupied Bandwidth** 





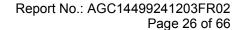


















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9. Power Spectral Density Measurement

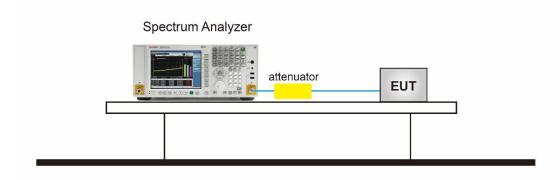
## 9.1 Provisions Applicable

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 9.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 1. 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.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- 6. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

## 9.3 Measurement Setup (Block Diagram of Configuration)

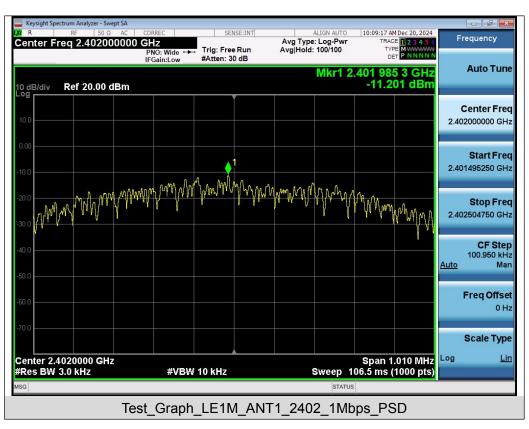




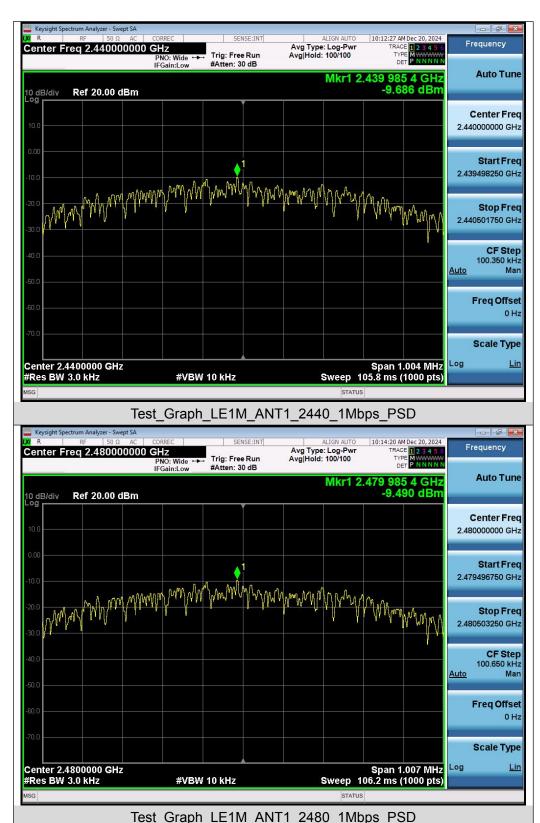
#### 9.4 Measurement Results

Test Data of Conducted Output Power Spectral Density					
Test Mode Test Frequency (MHz) Power density Limit (dBm/3kHz) Pass or Fail					
	2402	-11.201	≪8	Pass	
GFSK_1Mbps	2440	-9.686	≪8	Pass	
	2480	-9.490	≪8	Pass	

## **Test Graphs of Conducted Output Power Spectral Density**









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## 10. Conducted Band Edge and Out-of-Band Emissions

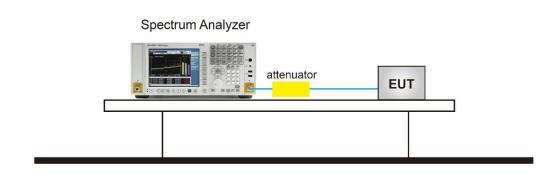
## 10.1 Provisions Applicable

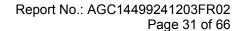
The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

#### 10.2 Measurement Procedure

- Reference level measurement
- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize
- Emission level measurement
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

#### 10.3 Measurement Setup (Block Diagram of Configuration)







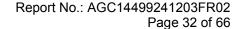
#### 10.4 Measurement Results

Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

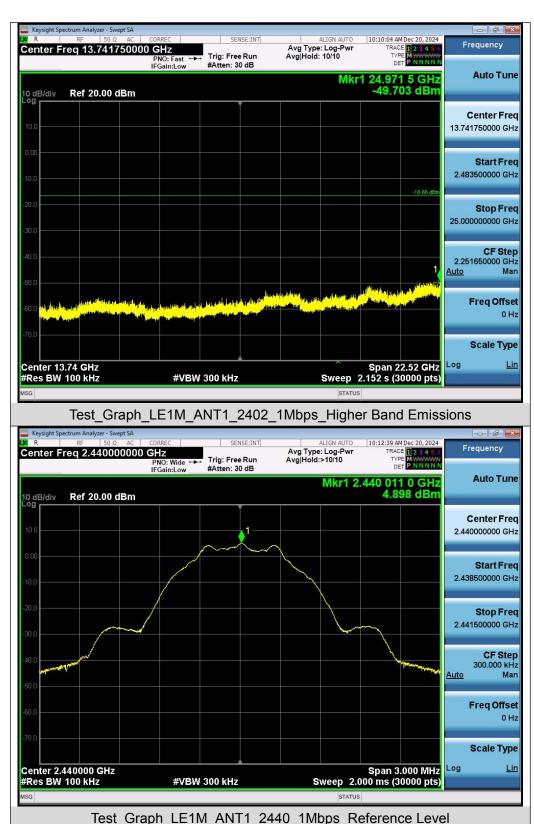


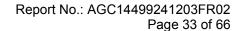
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Emissions

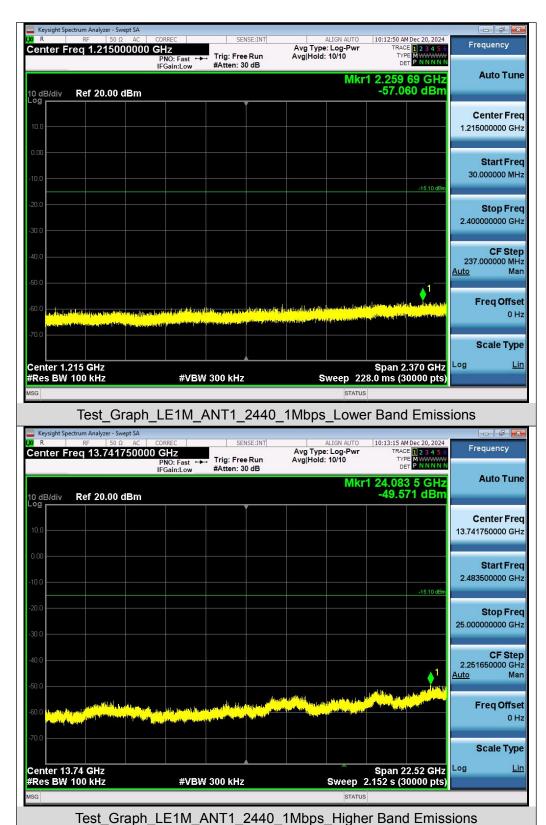






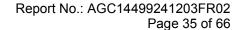




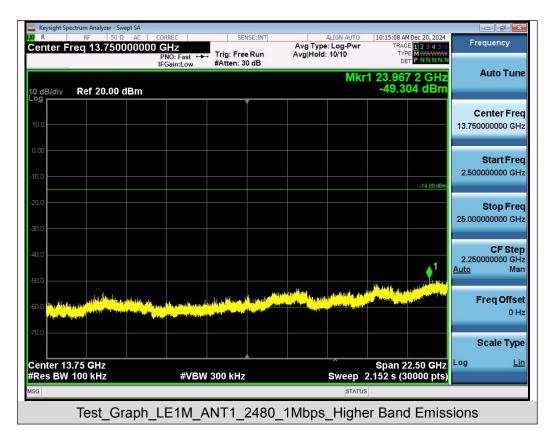


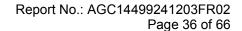














Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands ALIGN AUTO
Avg Type: Log-Pwr
Avg|Hold: 10/10 Frequency Center Freq 2.398500000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low **Auto Tune** Mkr2 2.400 000 0 GHz -50.671 dBm Ref 20.00 dBm Center Freq 2.398500000 GHz Start Freq 2.390000000 GHz Stop Freq 2.407000000 GHz Center 2.398500 GHz #Res BW 100 kHz Span 17.00 MHz Sweep 2.000 ms (30000 pts) #VBW 300 kHz 1.700000 MHz Auto Freq Offset 0 Hz **Scale Type** Log <u>Lin</u>

## Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Edge Emissions Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 2.487500000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast • IFGain:Low **Auto Tune** Mkr2 2.483 500 0 GHz -55.838 dBm Ref 20.00 dBm Center Freq 2.487500000 GHz Start Freq Stop Freq 2.500000000 GHz Center 2.48750 GHz #Res BW 100 kHz Span 25.00 MHz Sweep 4.000 ms (30000 pts) #VBW 300 kHz 2.500000 MHz Freq Offset 0 Hz Scale Type Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions



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## 11. Radiated Spurious Emission

#### 11.1 Measurement Limit

FCC Part 15.209 Limit in the below table to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

#### 11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.



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8. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 9. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the guasi-peak method for below 1GHz.
- 10. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 11. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting		
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP		
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP		
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP		
Start ~Stop Frequency	1GHz~26.5GHz		
otali otop i requericy	1MHz/3MHz for Peak, 1MHz/3MHz for Average		

Receiver Parameter	Setting	
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP	
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP	
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP	



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#### Quasi-Peak Measurements below 1GHz

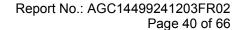
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

#### • Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

#### Average Measurements above 1GHz

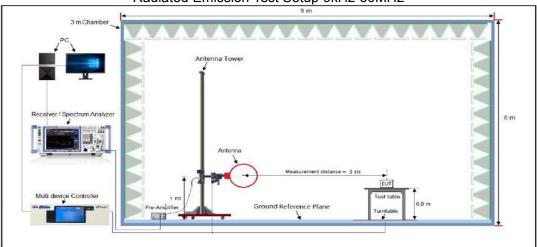
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ [3 × RBW]
- 4. Detector = Power averaging (rms)
- 5. Averaging type = power (i.e., rms)
- 6. Sweep time = auto
- 7. Perform a trace average of at least 100 traces.
- 8. The applicable correction factor is [10\*log (1 / D)], where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



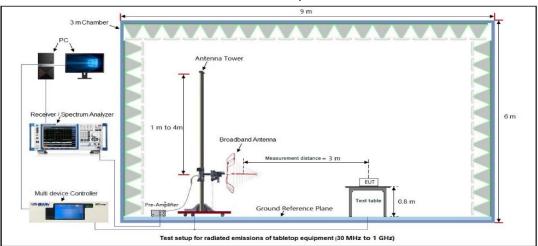


# 11.3 Measurement Setup (Block Diagram of Configuration)

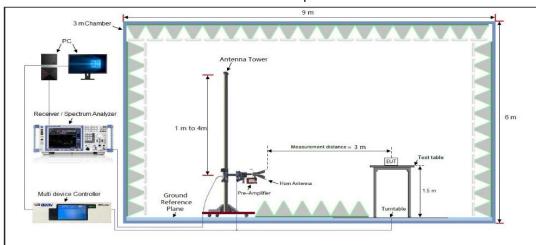
Radiated Emission Test Setup 9kHz-30MHz

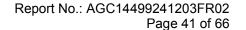


## Radiated Emission Test Setup 30MHz-1000MHz



#### Radiated Emission Test Setup Above 1000MHz





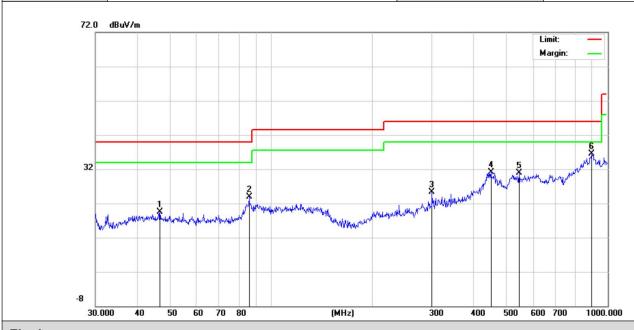


#### 11.4 Measurement Result

#### **Radiated Emission Below 30MHz**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

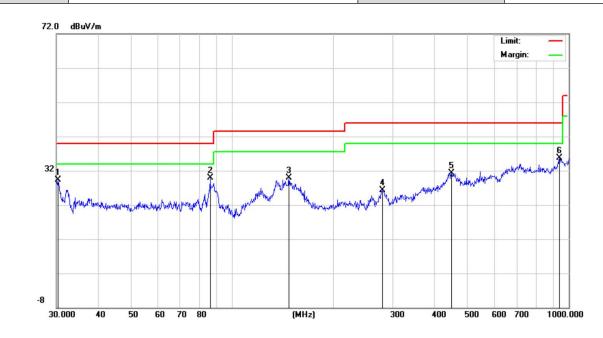
Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Phone	Model Name	W635W		
Temperature	18.5℃	Relative Humidity	56.1%		
Pressure	960hPa	Test Voltage	DC 3.87V by battery		
Test Mode	Mode 3	Antenna Polarity	Horizontal		



Final I	Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.6664	19.55	13.43	40.00	20.45	100	160	Horizontal
2	85.8984	23.82	14.01	40.00	16.18	100	170	Horizontal
3	300.3672	25.25	16.50	46.00	20.75	100	90	Horizontal
4	449.5558	31.20	24.77	46.00	14.8	100	220	Horizontal
5	545.1826	30.84	23.98	46.00	15.16	100	160	Horizontal
6	896.9965	36.41	31.42	46.00	9.59	100	140	Horizontal



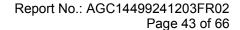
Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Phone	Model Name	W635W		
Temperature	18.5℃	Relative Humidity	56.1%		
Pressure	960hPa	Test Voltage	DC 3.87V by battery		
Test Mode	Mode 3	Antenna Polarity	Vertical		



Finai	Data	List

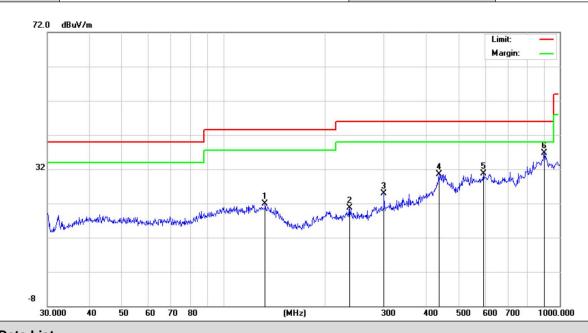
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.3173	29.29	13.70	40.00	10.71	100	160	Vertical
2	85.8984	29.85	16.10	40.00	10.15	100	170	Vertical
3	147.4036	29.89	18.20	43.50	13.61	100	90	Vertical
4	280.0237	26.31	18.40	46.00	19.69	100	220	Vertical
5	447.9822	31.35	25.74	46.00	14.65	100	160	Vertical
6	938.8326	35.65	30.84	46.00	10.35	100	140	Vertical

## **RESULT: PASS**

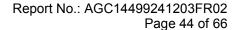




Radiated Emission Test Results at 30MHz-1GHz						
EUT Name	Phone	Model Name	W635W-S			
Temperature	18.5℃	Relative Humidity	56.1%			
Pressure	960hPa	Test Voltage	DC 3.87V by battery			
Test Mode	Mode 3	Antenna Polarity	Horizontal			

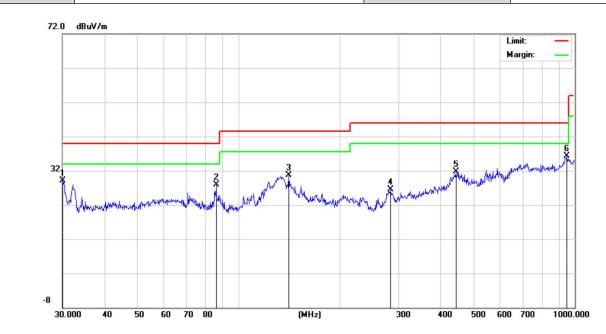


#### **Final Data List** Level Factor Limit Margin Height Freq. Angle NO. **Polarity** [MHz] [dBµV/m] [dB] [dBµV/m] [dB] [cm] [°] 133.1511 21.93 15.61 43.50 21.57 100 160 1 Horizontal 2 237.4760 20.62 15.27 46.00 25.38 100 170 Horizontal 3 300.3672 24.91 16.50 46.00 21.09 100 90 Horizontal 4 437.1199 30.53 24.48 46.00 15.47 100 220 Horizontal 5 593.0497 30.62 24.82 46.00 15.38 100 160 Horizontal 6 900.1474 36.70 31.78 46.00 9.3 100 140 Horizontal





Radiated Emission Test Results at 30MHz-1GHz					
EUT Name	Phone	Model Name	W635W-S		
Temperature	18.5℃	Relative Humidity	56.1%		
Pressure	960hPa	Test Voltage	DC 3.87V by battery		
Test Mode	Mode 3	Antenna Polarity	Vertical		



# **Final Data List**

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.1054	29.19	13.63	40.00	10.81	100	100	Vertical
2	85.8984	27.85	16.10	40.00	12.15	100	190	Vertical
3	141.3298	30.73	18.20	43.50	12.77	100	70	Vertical
4	283.9791	26.57	18.50	46.00	19.43	100	160	Vertical
5	443.2943	31.72	25.95	46.00	14.28	100	150	Vertical
6	948.7610	36.26	30.65	46.00	9.74	100	110	Vertical

## **RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.



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## **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Phone	Model Name	W635W
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804.000	50.11	0.08	50.19	74.00	-23.81	peak
4804.000	40.52	0.08	40.6	54.00	-13.40	AVG
7206.000	49.34	2.21	51.55	74.00	-22.45	peak
7206.000	41.36	2.21	43.57	54.00	-10.43	AVG
Domorki						

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Phone	Model Name	W635W
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804.000	49.63	0.08	49.71	74.00	-24.29	peak
4804.000	41.36	0.08	41.44	54.00	-12.56	AVG
7206.000	49.78	2.21	51.99	74.00	-22.01	peak
7206.000	40.36	2.21	42.57	54.00	-11.43	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

# **RESULT: PASS**



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## **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Phone	Model Name	W635W
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4880.000	49.78	0.14	49.92	74.00	-24.08	peak
4880.000	41.39	0.14	41.53	54.00	-12.47	AVG
7320.000	48.37	2.36	50.73	74.00	-23.27	peak
7320.000	40.58	2.36	42.94	54.00	-11.06	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Phone	Model Name	W635W
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4880.000	50.16	0.14	50.30	74.00	-23.70	peak
4880.000	40.78	0.14	40.92	54.00	-13.08	AVG
7320.000	49.69	2.36	52.05	74.00	-21.95	peak
7320.000	41.52	2.36	43.88	54.00	-10.12	AVG
7320.000	71.52	2.30	1 40.00	J <del>-1</del> .00	-10.12	<u> Avg</u>

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## **RESULT: Pass**



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## **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Phone	Model Name	W635W
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960.000	49.96	0.22	50.18	74.00	-23.82	peak
4960.000	40.74	0.22	40.96	54.00	-13.04	AVG
7440.000	49.31	2.64	51.95	74.00	-22.05	peak
7440.000	40.25	2.64	42.89	54.00	-11.11	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Phone	Model Name	W635W
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
50.16	0.22	50.38	74.00	-23.62	peak
41.37	0.22	41.59	54.00	-12.41	AVG
48.55	2.64	51.19	74.00	-22.81	peak
41.05	2.64	43.69	54.00	-10.31	AVG
	Reading (dBµV) 50.16 41.37 48.55	Reading     Factor       (dBμV)     (dB)       50.16     0.22       41.37     0.22       48.55     2.64	Reading     Factor     Level       (dBμV)     (dB)     (dBμV/m)       50.16     0.22     50.38       41.37     0.22     41.59       48.55     2.64     51.19	Reading         Factor         Level         Limits           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)           50.16         0.22         50.38         74.00           41.37         0.22         41.59         54.00           48.55         2.64         51.19         74.00	Reading         Factor         Level         Limits         Margin           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)         (dB)           50.16         0.22         50.38         74.00         -23.62           41.37         0.22         41.59         54.00         -12.41           48.55         2.64         51.19         74.00         -22.81

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

# **RESULT: Pass**



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## **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Phone	Model Name	W635W-S
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804.000	50.17	80.0	50.25	74.00	-23.75	peak
4804.000	40.97	0.08	41.05	54.00	-12.95	AVG
7206.000	48.93	2.21	51.14	74.00	-22.86	peak
7206.000	41.37	2.21	43.58	54.00	-10.42	AVG
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Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Phone	Model Name	W635W-S
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804.000	49.96	0.08	50.04	74.00	-23.96	peak
4804.000	41.22	0.08	41.3	54.00	-12.70	AVG
7206.000	49.37	2.21	51.58	74.00	-22.42	peak
7206.000	40.58	2.21	42.79	54.00	-11.21	AVG
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Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## **RESULT: Pass**



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## **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Phone	Model Name	W635W-S
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 2	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4880.000	49.96	0.14	50.10	74.00	-23.90	peak
4880.000	40.58	0.14	40.72	54.00	-13.28	AVG
7320.000	49.31	2.36	51.67	74.00	-22.33	peak
7320.000	40.33	2.36	42.69	54.00	-11.31	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Phone	Model Name	W635W-S
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 2	Antenna Polarity	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
49.52	0.14	49.66	74.00	-24.34	peak
41.87	0.14	42.01	54.00	-11.99	AVG
49.12	2.36	51.48	74.00	-22.52	peak
41.15	2.36	43.51	54.00	-10.49	AVG
	Reading (dBµV) 49.52 41.87 49.12	Reading     Factor       (dBμV)     (dB)       49.52     0.14       41.87     0.14       49.12     2.36	Reading     Factor     Level       (dBμV)     (dB)     (dBμV/m)       49.52     0.14     49.66       41.87     0.14     42.01       49.12     2.36     51.48	Reading         Factor         Level         Limits           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)           49.52         0.14         49.66         74.00           41.87         0.14         42.01         54.00           49.12         2.36         51.48         74.00	Reading         Factor         Level         Limits         Margin           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)         (dB)           49.52         0.14         49.66         74.00         -24.34           41.87         0.14         42.01         54.00         -11.99           49.12         2.36         51.48         74.00         -22.52

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## **RESULT: Pass**



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#### Radiated Emissions Test Results for Above 1GHz

EUT Name	Phone	Model Name	W635W-S
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960.000	51.39	0.22	51.61	74.00	-22.39	peak
4960.000	40.78	0.22	41.00	54.00	-13.00	AVG
7440.000	49.31	2.64	51.95	74.00	-22.05	peak
7440.000	40.57	2.64	43.21	54.00	-10.79	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Phone	Model Name	W635W-S
Temperature	18.5℃	Relative Humidity	56.1%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 3	Antenna Polarity	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
50.58	0.22	50.80	74.00	-23.20	peak
41.39	0.22	41.61	54.00	-12.39	AVG
49.31	2.64	51.95	74.00	-22.05	peak
41.37	2.64	44.01	54.00	-9.99	AVG
	Reading (dBµV) 50.58 41.39 49.31	Reading     Factor       (dBμV)     (dB)       50.58     0.22       41.39     0.22       49.31     2.64	Reading     Factor     Level       (dBμV)     (dB)     (dBμV/m)       50.58     0.22     50.80       41.39     0.22     41.61       49.31     2.64     51.95	Reading         Factor         Level         Limits           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)           50.58         0.22         50.80         74.00           41.39         0.22         41.61         54.00           49.31         2.64         51.95         74.00	Reading         Factor         Level         Limits         Margin           (dBμV)         (dB)         (dBμV/m)         (dBμV/m)         (dB)           50.58         0.22         50.80         74.00         -23.20           41.39         0.22         41.61         54.00         -12.39           49.31         2.64         51.95         74.00         -22.05

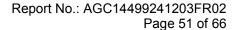
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## **RESULT: PASS**

#### Note:

- 1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.



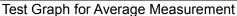


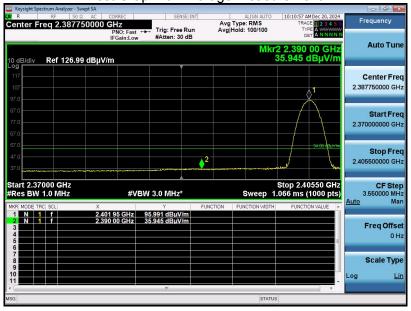
# **Band Edge Emission Test Results for Restricted Bands**

EUT Name	Phone	Model Name	W635W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement







#### **RESULT: PASS**

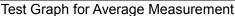


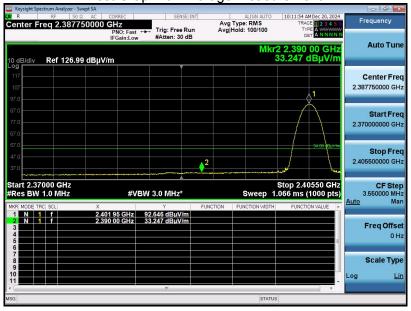
## **Band Edge Emission Test Results for Restricted Bands**

EUT Name	Phone	Model Name	W635W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 1	Antenna Polarity	Vertical

Test Graph for Peak Measurement







#### **RESULT: PASS**

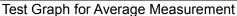


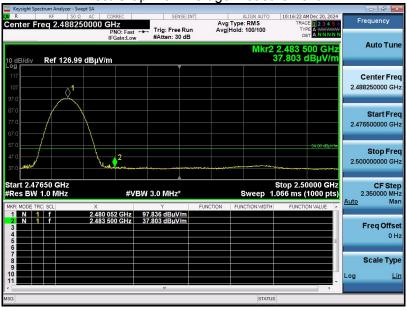
# **Band Edge Emission Test Results for Restricted Bands**

EUT Name	Phone	Model Name	W635W
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 3.87V by battery
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement







#### **RESULT: PASS**