Report No.: SEWM2302000049RG04 Rev.: 01 1 of 39 Page:

TEST REPORT

Application No.:	SEWM2302000049RG
Applicant:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
EUT Description:	smart phone
Model No.:	U696CL
Trade Mark:	UMX
FCC ID:	2ALZM-U696CL
Standards:	FCC 47 CFR Part 2, Subpart J
	FCC 47 CFR Part 15, Subpart C
Date of Receipt:	2023/02/22
Date of Test:	2023/02/26 to 2023/03/02
Date of Issue:	2023/03/02
Test Result :	PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

*

Sun an

Panta Sun Wireless Laboratory Manager



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results shown in this test report refer only to the sample(s) tested and			
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1 Version

Revision Record				
Version Chapter Date Modifier Remark				
01		2023/03/02		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	15.203/15.247(b)		PASS
AC Power Line Conducted Emission	ted 15.207 ANSI C63.10 2013 Section 6.2		Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3		
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Reference report ZR/2021/5004003	
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	211/2021/3	004003
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11		
Radiated Spurious Emissions	ns 15.205/15.209 ANSI C63.10 2013 Section 11.12		Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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Remark:

This test report (Report No.: SEWM2302000049RG04 issue on 2023/03/02) is based on the original test report (Report No.: ZR/2021/5004003 issue on 2021/08/03).

Reference detail section:

Therefore in this report AC Power Line Conducted Emission, Conducted Peak Output Power, Radiated Spurious Emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number ZR/2021/5004003 issue on 2021/08/03 and other test data please refer to the previous report with report number ZR/2021/5004003 issue on 2021/08/03.



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3 General Information

3.1 Details of Client

Applicant:	Great Talent Technology Limited
Address of Applicant:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China
Manufacturer:	Great Talent Technology Limited
Address of Manufacturer:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.		
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzho Area, China (Jiangsu) Pilot Free Trade Zone		
Post code:	215000		
Test engineer:	King-p Li, Ives Cheng		

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC – Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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smart phone		
U696CL		
UMX		
U696CL_V1.0		
UMX_U696CL_V11.01.02.00.230218		
990018256309000		
2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.		
Bluetooth V4.2		
GFSK		
40		
Provided by client		
1M PHY		
🗌 External, 🖾 Integrated		
2.01dBi		
Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
1dB		

3.4 General Description of EUT

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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	Fage. 00139						
	Operation Frequency of each channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark:

S

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value Temperature(°C) Voltage				
NTNV	22~23	3.80		
Remark:				
NV: Normal Voltage				
NT: Normal Temperature				

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

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.

The antenna is Integrated Antenna and no consideration of replacement. The best case gain of the antenna is 2.01dBi. *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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4.2 AC Power Line Conducted Emissions

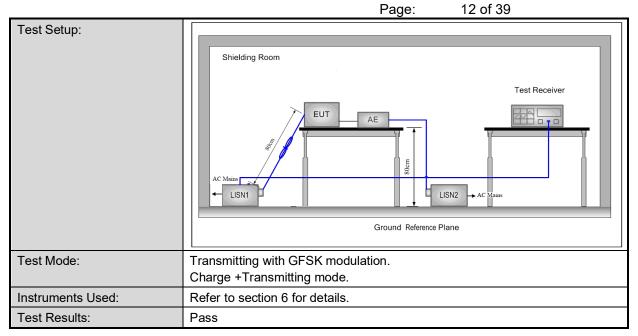
SC

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:		Limit (c	lBuV)		
	Frequency range(MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:	 room. 2) The EUT was connect Impedance Stabilizat impedance. The pow connected to a secor plane in the same wa multiple socket outlet single LISN provided 3) The tabletop EUT was ground reference plan placed on the horizor 4) The test was performed the EUT shall be 0.4 vertical ground reference reference plane. The unit under test and be mounted on top of the the closest points of the and associated equip 5) In order to find the main and all of the interface 	sturbance voltage test was c ted to AC power source throu ion Network) which provides er cables of all other units of ad LISN 2, which was bonded by as the LISN 1 for the unit k strip was used to connect m the rating of the LISN was n s placed upon a non-metallic ne. And for floor-standing arr tal ground reference plane. ed with a vertical ground refe m from the vertical ground refe ence plane was bonded to the LISN 1 was placed 0.8 m fro onded to a ground reference e ground reference plane. The the LISN 1 and the EUT. All co ment was at least 0.8 m from aximum emission, the relative cables must be changed a in conducted measurement.	ugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were d to the ground reference being measured. A nultiple power cables to a ot exceeded. table 0.8m above the rangement, the EUT was erence plane. The rear of deference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was between other units of the EUT n the LISN 2. e positions of equipment		



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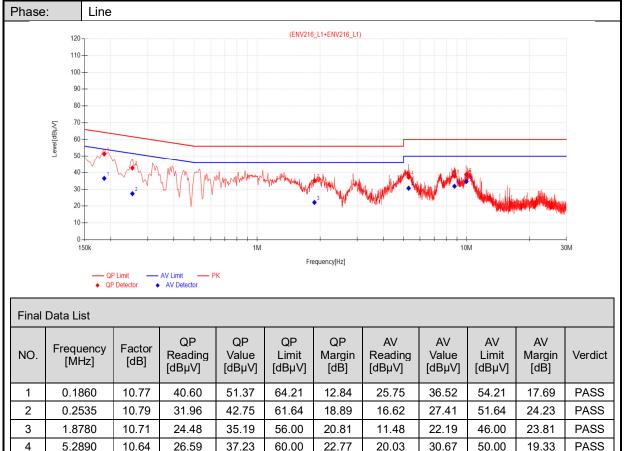
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Test for spot check:



6 Remark:

5

8.7585

9.9825

1. The following Quasi-Peak and Average measurements were performed on the EUT:

37.87

38.92

60.00

60.00

22.13

21.08

21.20

24.04

31.86

34.67

50.00

50.00

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

27.21

28.29

3. Margin = Limit[dBµV] – Value[dBµV]

10.66

10.63



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PASS

18.14

15.33

							Report Rev.: Page:	01)200004	9RG04
hase:	Ne	utral									
	 ۱20 - ۲۰۰				(ENV21	6_N+ENV216_N)					
	110										
	100-										
	90 -										
	80-										
	ξ ⁷⁰ -										
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	10-										
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	10 0 150k		AV Limit - P AV Detector		Fre	equency[Hz]		10	M	3	ц ОМ
Final	10 0 150k				Fre	equency[Hz]		10	M	3	H OM
Final D	10 0 150k		AV Detector	к							ы ом
	Data List	P Detector	AV Detector	к QP	QP	QP	AV	AV	AV	AV	
	Data List	QP Detector	AV Detector	к			AV Reading [dBµV]				
NO.	Data List Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	k QP Value [dBμV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO.	Data List Frequency [MHz] 0.1905	P Detector [dB] 10.67	QP Reading [dBµV] 39.99	QP Value [dBµV] 50.66	QP Limit [dBµV] 64.01	QP Margin [dB] 13.35	Reading [dBµV] 27.53	AV Value [dBµV] 38.20	AV Limit [dBµV] 54.01	AV Margin [dB] 15.81	Verdic
NO. 1 2	Data List Frequency [MHz] 0.1905 0.3165	P Detector [dB] 10.67 10.77	QP Reading [dBµV] 39.99 31.64	к QP Value [dBµV] 50.66 42.41	QP Limit [dBµV] 64.01 59.80	QP Margin [dB] 13.35 17.39	Reading [dBµV] 27.53 17.46	ΑV Value [dBμV] 38.20 28.23	ΑV Limit [dBμV] 54.01 49.80	AV Margin [dB] 15.81 21.57	Verdic PASS PASS
NO. 1 2 3	Data List Frequency [MHz] 0.1905 0.3165 2.0670	P Detector Factor [dB] 10.67 10.77 10.77 10.77	QP Reading [dBµV] 39.99 31.64 26.60	 QP Value [dBμV] 50.66 42.41 37.37 	QP Limit [dBµV] 64.01 59.80 56.00	QP Margin [dB] 13.35 17.39 18.63	Reading [dBµV] 27.53 17.46 12.91	AV Value [dBµV] 38.20 28.23 23.68	AV Limit [dBµV] 54.01 49.80 46.00	AV Margin [dB] 15.81 21.57 22.32	Verdic PASS PASS PASS
NO. 1 2 3 4	Data List Frequency [MHz] 0.1905 0.3165 2.0670 5.1540	P Detector Factor [dB] 10.67 10.77 10.77 10.77	 QP Reading [dBµV] 39.99 31.64 26.60 27.18 	QP Value [dBμV] 50.66 42.41 37.37 37.81	QP Limit [dBµV] 64.01 59.80 56.00 60.00	QP Margin [dB] 13.35 17.39 18.63 22.19	Reading [dBµV] 27.53 17.46 12.91 20.71	AV Value [dBμV] 38.20 28.23 23.68 31.34	AV Limit [dBμV] 54.01 49.80 46.00 50.00	AV Margin [dB] 15.81 21.57 22.32 18.66	Verdic PASS PASS PASS PASS
NO. 1 2 3	Data List Frequency [MHz] 0.1905 0.3165 2.0670	P Detector Factor [dB] 10.67 10.77 10.77 10.77	QP Reading [dBµV] 39.99 31.64 26.60	 QP Value [dBμV] 50.66 42.41 37.37 	QP Limit [dBµV] 64.01 59.80 56.00	QP Margin [dB] 13.35 17.39 18.63	Reading [dBµV] 27.53 17.46 12.91	AV Value [dBµV] 38.20 28.23 23.68	AV Limit [dBµV] 54.01 49.80 46.00	AV Margin [dB] 15.81 21.57 22.32	Verdic

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]



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4.3 Duty Cycle

The detailed test data see: Reference report ZR/2021/5004003



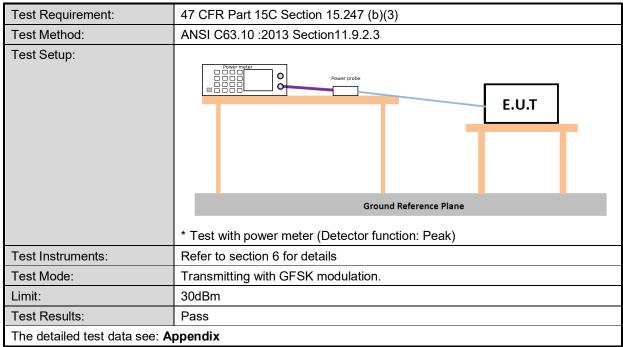
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4.4 Conducted Output Power



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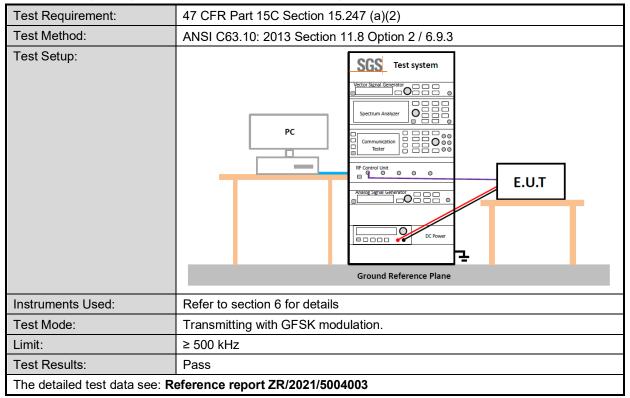
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





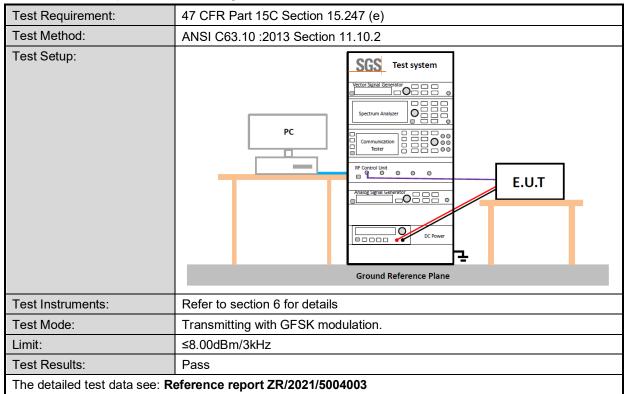
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4.6 Power Spectral Density



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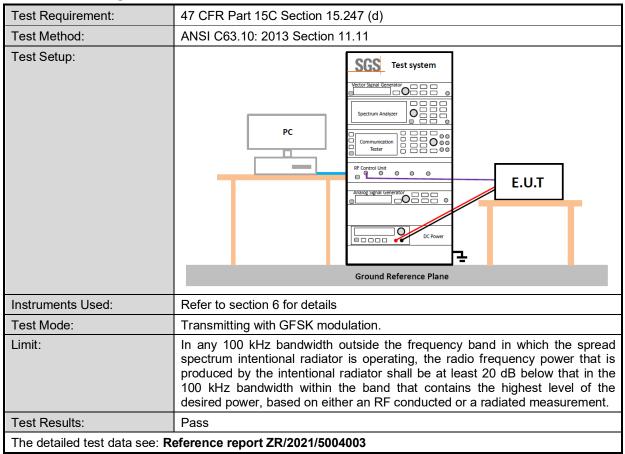
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4.7 Band-edge for RF Conducted Emissions





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Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Fet system Sector Se
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: F	Reference report ZR/2021/5004003

4.8 **RF Conducted Spurious Emissions**

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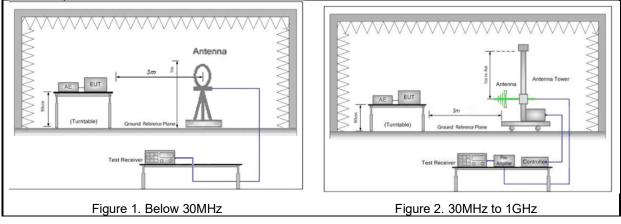
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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 :2013 Section 11.12						
Test Site:	Measurement Distance:	3m (Semi-Anecho	ic Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz 500 54.0 Average 3						
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						

Test Setup:

S





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	Im or 3m
	Test Receiver
	Figure 3. Above 1 GHz
Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
	 (Distance from antenna to EUT is 1m for measurements >18GHz). c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	 f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	 g. Test the EUT in the lowest channel, the middle channel ,the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	 i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	 k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	 At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	 VBW = 30 kHz Detector = Peak & Average & Quasi-peak
	Trace mode = max hold
	Trace mode = max hold



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		Report No.: Rev.: Page:	SEWM2302000049RG04 01 23 of 39
	Measurements $30 \sim 1000$ MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW = 10 Hz, when duty cycle is no left • VBW $\geq 1/T$, when duty cycle is less that transmission duration over which the transmission duration duration duration over which the transmission duration durat	z ess than 98 per an 98 percent v nsmitter is on a	vhere T is the minimum and is transmitting at its
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.	·	
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmittin For below 1GHz part, through pre-scan the worst case is recorded in the report.	•	se is the lowest channel. Only
Instruments Used:	Refer to section 6 for details		
Test Results:	Pass		
The detailed test data	see: Appendix		



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	11.12				
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)			
Limit:	Frequency	Limit (dBuV/m)	Remark			
	30MHz-88MHz	40.0	Quasi-peak			
	88MHz-216MHz	Quasi-peak				
	216MHz-960MHz	216MHz-960MHz 46.0 Quasi-peak				
	960MHz-1GHz	960MHz-1GHz 54.0 Quasi-peak				
	Above 1GHz	54.0	Average Value			
	Peak Value					

Test Setup:

S(

Antenna Tower	Im or 3m Antenna Tower Antenna Tow
Figure 1. 30MHz to 1GHz	Figure 2. Above 1 GHz
 above the ground at rotated 360 degrees b. For above 1GHz, the meters above the gro rotated 360 degrees c. The EUT was set 3 or antenna, which was 1 d. The antenna height is to determine the max vertical polarizations e. For each suspected of then the antenna was rotatable table was to maximum reading. f. The test-receiver sys Bandwidth with Maximum the maxi	EUT was placed on the top of a rotating table 0.8 meters a 3 or 10 meter semi-anechoic camber. The table was to determine the position of the highest radiation. EUT was placed on the top of a rotating table 1.5 bund at a 3 meter semi-anechoic camber. The table was to determine the position of the highest radiation. or 10 meters away from the interference-receiving mounted on the top of a variable-height antenna tower. s varied from one meter to four meters above the ground kimum value of the field strength. Both horizontal and of the antenna are set to make the measurement. emission, the EUT was arranged to its worst case and s tuned to heights from 1 meter to 4 meters and the urned from 0 degrees to 360 degrees to find the etem was set to Peak Detect Function and Specified mum Hold Mode. e end of the restricted band closest to the transmit



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	 frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	 Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Total RF power, conducted	±0.54dB	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	1%	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	1%	
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)	
		± 3.13dB (9k -30MHz)	
8	De dista de Enviração	± 4.8dB (30M -1GHz)	
õ	Radiated Emission	± 4.8dB (1GHz to 18GHz)	
		± 4.8dB (Above 18GHz)	

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE& SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05



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 Conduction Test Equipment

 Cal. date (vvvv/mm/dd) (vvv/mm/dd)

Test Equipment	Manufacturer	Model No.	Inventory No.	(yyyy/mm/dd)	(yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR

		RSE Test Sy	/stem		
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Maximum conducted output power

Test for spot check: Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
		2402	0.36	≤30	PASS
BLE_1M	Ant1	2440	0.69	≤30	PASS
		2480	-1.07	≤30	PASS



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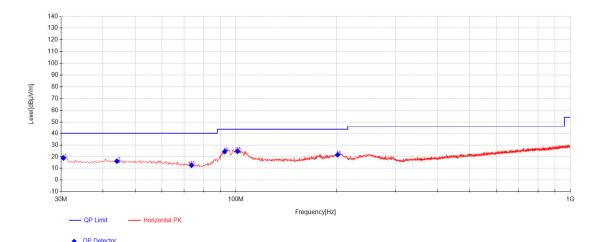
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Radiated Spurious Emissions

Test for spot check:

Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 39



Fina	I Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.485	34.12	-28.56	13.24	18.80	40.00	21.20	159	2	Horizontal
2	44.065	30.47	-28.05	13.73	16.15	40.00	23.85	223	225	Horizontal
3	73.65	30.12	-27.81	10.26	12.57	40.00	27.43	187	2	Horizontal
4	92.565	42.26	-27.59	9.62	24.29	43.50	19.21	248	213	Horizontal
5	101.0525	41.69	-27.37	10.25	24.58	43.50	18.92	193	2	Horizontal
6	201.4475	38.58	-26.95	9.95	21.58	43.50	21.92	204	294	Horizontal



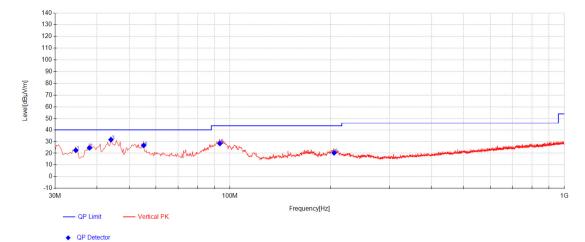
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Fina	Final Data List													
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity				
1	34.6075	37.48	-28.35	13.38	22.51	40.00	17.49	165	357	Vertical				
2	38.0025	38.97	-28.18	13.80	24.59	40.00	15.41	217	360	Vertical				
3	44.065	45.92	-28.05	13.73	31.60	40.00	8.40	286	283	Vertical				
4	55.22	41.36	-27.81	13.13	26.68	40.00	13.32	236	22	Vertical				
5	93.2925	46.24	-27.57	9.67	28.35	43.50	15.15	249	22	Vertical				
6	204.8425	37.06	-26.84	10.06	20.28	43.50	23.22	166	160	Vertical				

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) - Value($dB\mu V/m$)



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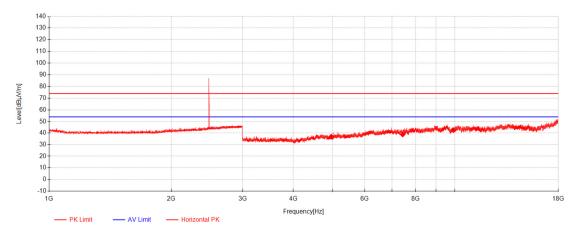
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Transmitter emission Above 1GHz

BLE 1M_Channel 39



PK Detector

Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960	49.20	32.50	-44.92	36.79	74.00	37.21	196	300	Horizontal			
2	7440	43.84	36.46	-41.83	38.48	74.00	35.52	333	155	Horizontal			
3	9920	40.93	38.51	-37.22	42.22	74.00	31.78	241	27	Horizontal			



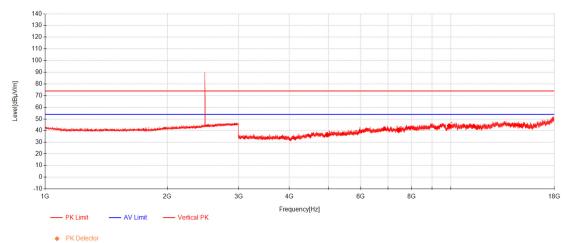
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	4960	48.65	32.50	-44.92	36.24	74.00	37.76	296	298	Vertical			
2	7440	45.30	36.46	-41.83	39.94	74.00	34.06	285	132	Vertical			
3	9920	42.67	38.51	-37.22	43.96	74.00	30.04	241	4	Vertical			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)



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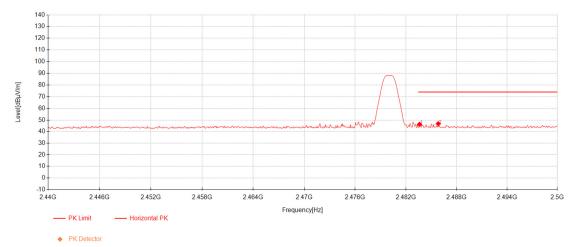
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Test for spot check:

Restricted bands around fundamental frequency

BLE 1M_Channel 39



Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.62	42.37	27.87	-23.96	46.28	74.00	27.72	324	255	Horizontal			
2	2485.84	42.86	27.87	-23.95	46.79	74.00	27.21	324	255	Horizontal			



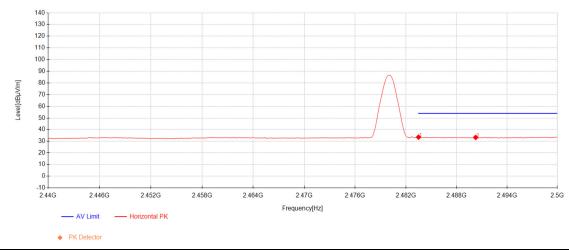
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2483.5	29.42	27.87	-23.96	33.33	54.00	20.67	324	255	Horizontal			
2	2490.28	29.12	27.88	-23.92	33.08	54.00	20.92	324	255	Horizontal			



BLE 1M_Channel 39

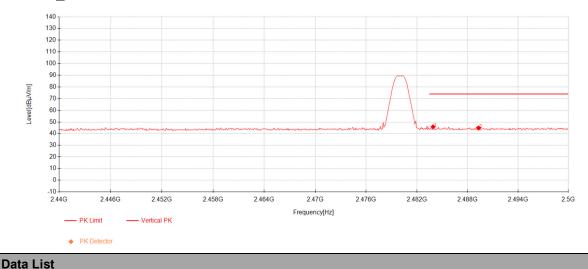
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Level

[dBµV/m]

45.74

44.70

Limit

[dBµV/m]

74.00

74.00

Margin

[dB]

28.26

29.30

Height

[cm]

196

196

Angle

[°]

143

143

Polarity

Vertical

Vertical

BLE 1M_Channel 39

Frequency

[MHz]

2483.92

2489.32

NO

1

2

Reading

[dBµV]

41.83

40.75

AF

[dB/m]

27.87

27.88

Factor

[dB]

-23.96

-23.93

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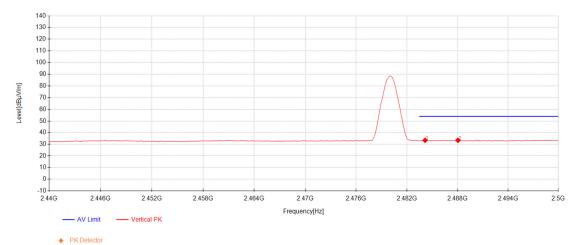
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Data	Data List												
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2484.16	29.27	27.87	-23.95	33.18	54.00	20.82	196	143	Vertical			
2	2488.06	29.22	27.88	-23.93	33.16	54.00	20.84	196	143	Vertical			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBµV/m) – Level(dBµV/m)

---End of Report---

