

RF TEST REPORT

Product Name: DECT wireless Headset

Model Name: S5 Pro VCV5000

FCC ID: T7HCT8950

Issued For RTX HONG KONG LTD

8/F Corporation Square 8 Lam Lok Street, Kowloon Bay,

Hong kong

Issued By Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China

Report Number: LGT22L057RF02

Sample Received Date: Dec. 28, 2022

Date of Tested: Dec. 28, 2022 – Feb.11, 2023

Date of Issue: Feb.12, 2023

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TEST REPORT CERTIFICATION

Applicant RTX HONG KONG LTD

8/F Corporation Square 8 Lam Lok Street, Kowloon Bay, Hong Address

kong

Manufacturer Foshan City Nanhai Commtech Technology Co., Ltd.

Yizhong, Da Zhen, Da Li, Nan Hai District, Foshan City, Guang-

dong Province China

Product Name DECT wireless Headset

Trademark Vocovo

Model Name S5 Pro VCV5000

Sample number LGT22012108, LGT22012109

APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
Title 47 of the CFR, Part 15. Subpart D ANSI C63.17-2013	PASS		

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Revision History

Rev.	Issue Date	Revisions
00	Feb.12, 2023	Initial Issue

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1.SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart D.

Requirement	FCC Part	Test Procedure	Result
Emission Bandwidth	15.323 (a)	6.1.3	Compliant
Labeling Requirements	15.19(a)(3)		Compliant
Conducted Emissions	15.315 & 15.207	ANSI C63.4	Compliant
Antenna Requirements	15.317 & 15.203	Declaration	Compliant
Use digital modulation	15.319 (b)	6.1.4	Compliant
Peak transmit power	15.319 (c)	6.1.2	Compliant
Power spectral density	15.319 (d)	6.1.5	Compliant
Power adjustment for an- tenna gain	15.319 (e)	4.3.1	Compliant
Automatically discontinue transmission	15.319 (f)		Compliant
Spurious emissions conducted	15.323 (d) (1) & 15.323 (d) (2) 6.1.6		Compliant
RF Exposure	15.319 (i) & 1.1307(b), 2.1091 and 2.1093	ANSI/IEEE C95.1	Compliant (The test data please refer to RF exposure report)
Monitoring time	15.323 (c)(1)	7.3.4	Compliant
Monitoring thresh- old	15.323 (c)(2)	7.3	Compliant
Duration of transmission	15.323 (c)(3)	8.2.2	Not Applicable
System acknowledgment test	15.323(c)(4)	8.2.1	Compliant
Channel confirmation, Power accuracy, Segment occupancy	confirmation, Power accuracy, Segment 15.323 (c)(5) 7.		Compliant
Random waiting	15.323 (c)(6)	8.1.3	Not Applicable

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Monitoring bandwidth	15.323 (c)(7)	7.4	Compliant
Monitoring reaction time	15.323 (c)(1)	7.5	Compliant
Monitoring antenna	15.323 (c)(8)	4	Compliant
Monitoring thresh- old relaxation	15.323 (c)(9)	4	Compliant
Duplex connections	15.323 (c)(10)	8.3	Not Applicable
Alternate monitoring interval	15.323 (c)(11)	8.4	Not Applicable
Fair access	15.323 (c)(12)	Declaration	Not Applicable
Frame period	15.323 (e)	6.2.2 & 6.2.3	Compliant
Frequency stability	15.323 (f)	6.2.1	Compliant
Radiated Out of Band Emissions	15.319 (g), 15.309 (b) & FCC Part 15 Subpart B, 15.109 and 15.209		Compliant

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1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.		
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No. Renmin West Road, Jinsha Community, Kengzi Street, Pingshan N District, Shenzhen, China		
	A2LA Certificate No.: 6727.01		
Accreditation Certificate	FCC Registration No.: 746540		
	CAB ID: CN0136		

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, 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 %.

	·	
No.	Item	Uncertainty
1	RF Output Power, Conducted	±0.71dB
2	Unwanted Emission, Conducted	±0.63dB
3	All Emissions, Radiated (0.009-30MHz)	±2.16dB
4	All Emissions, Radiated (30MHz-1GHz)	±4.40dB
5	All Emissions, Radiated (1GHz-18GHz)	±5.49dB
6	Conducted Emission (150KHz-30MHz)	±2.80dB

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2 PRODUCT INFORMATION

Product Name	DECT wireless Headset
Model Name	S5 Pro VCV5000
Series Model	N/A
Product Differences	N/A
EUT Frequency Ranges	1921.536-1928.448MHz
Modulation Type:	GFSK
Slot Type:	PP32Z
Number of Channels	5 CH. Please see Note 2.
Antenna Type	wire antenna
Antenna Gain	ANT 0: 0.5dBi, ANT 1: 0.5dBi
Rated Input	3.8V 335mAh 1.273Wh
Hardware version	V2
Software version	V0040_B0001

Note 1: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual, ANT 0 and ANT 1 cannot transmit simultaneously.

Note 2: Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
04	1921.536	03	1923.264	02	1924.992
01	1926.720	00	1928.448		

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3 TEST MODE

The EUT was programmed to be in continuously transmitting mode.

Test Channel	EUT Channel	Test Frequency (MHz)
Lowest	CH04	1921.536
Middle	CH02	1924.992
Highest	CH00	1928.448

3.1 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	HUAWEI	HKF-16	N/A	N/A

Note:

(1) For detachable type I/O cable should be specified the length in cm in [®] Length [』] column.

3.2 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Туре	Power Class	Software For Testing
DECT	PP	Default	CMD command

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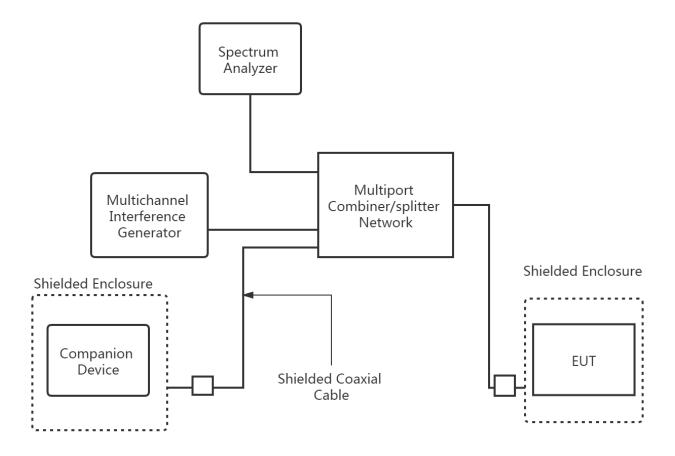


3.3 SYSTEM TEST CONFIGURATION

Figure 1



Figure 2



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4 MEASUREMENT INSTRUMENTS

RF Radiated Test	RF Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11	
Active loop Antenna	R&S	HFH2-Z2	POS871398181	2022.06.02	2024.06.01	
Spectrum Analyzer	Kesight	N9010B	MY60242508	2022.04.29	2023.04.28	
Bilog Antenna	SCHAFFNER	CBL6112B	2705	2022.06.05	2024.06.04	
Bilog Antenna	SCHAFFNER	VULB 9168	01447	2022.12.12	2023.12.11	
Horn Antenna	Schwarzbeck	3115	10SL0060	2022.06.02	2024.06.01	
Pre- amplifier(0.1M- 3GHz)	HP	8447D	2727A05655	2022.04.11	2023.04.10	
Pre-amplifier(1- 26.5G)	Agilent	8449B	3008A4722	2022.04.13	2023.04.12	
RE Cable (9K- 1G)	N.A	R01	N.A	2022.05.05	2023.05.04	
RE Cable (1- 26G)	N.A	R02	N.A	2022.05.05	2023.05.04	
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04	
Testing Software		EN	//C-I_V1.4.0.3_SKET	-		

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9010B	MY60242508	2022.04.29	2023.04.28
Signal Analyzer	Keysight	N9020A	MY50530994	2022.12.09	2023.12.08
RF Test Platform for DECT	RTX	RTX 2011	6036	2022.10.08	2022.10.07
RF Automatic Test system	MW	MW200-RFCB	MW220322LG	2022.04.29	2023.04.28
MXG Vector Sig- nal Generator	Keysight	N5182B	MY59100717	2022.06.02	2023.06.01
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2022.05.10	2023.05.09
Attenuator	eastsheep	90db	N.A	2022.04.29	2023.04.28
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software		MTS	S8310_V2.0.0.0_MV	V	

Conducted Emission	1				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2022.04.12	2023.04.11
LISN	COM-POWER	LI-115	02032	2022.04.13	2023.04.12
LISN	SCHWARZBECK	NNLK 8121	00847	2022.08.19	2023.08.18
CE Cable	N.A	C01	N.A	2022.05.05	2023.05.04
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2022.08.19	2023.08.18
Temperature & Humidity	KTJ	TA218B	N.A	2022.05.05	2023.05.04
Testing Software	EMC-I_V1.4.0.3_SKET				

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5 TEST ITEMS

5.1 ANTENNA REQUIREMENT

TEST OVERVIEW

§ 15.203: 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 shall be considered sufficient to comply with the provisions of this section. 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.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

TEST RESULT

The EUT as tested is compliant the criteria of §15.203. The antenna is permanently attached to the unit.

5.2 MODULATION TECHNIQUES

TEST REQUIREMENT

All transmissions must use only digital modulation techniques.

TEST PROCEDURES

Attestation of manufacturer supported by reference to relevant DECT specifications.

ATTESTATION

This device is compliant with the DECT standards described in European Standards EN 300 175-2 and EN 300 175-3. DECT transmissions are MC/TDMA/TDD (Multi carrier / Time Division Multiple Access / Time Division Duplex) using Digital GFSK modulation. For further details see operational description or relevant portions of the DECT standards.

TEST RESULTS

The EUT as tested is compliant the criteria of §15.319(b).

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5.3 EMISSION BANDWIDTH TEST OVERVIEW

§ 15.323(a): For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

TEST PROCEDURE

Operation shall be contained within the 1920-1930 MHz band. The emission bandwidth shall be less than 2.5 MHz. The power level shall be as specified in §15.319(c), but in no event shall the emission bandwidth be less than 50 kHz.

TEST SETUP

The test setup is shown in section 3.2 figure 1.

TEST RESULTS

The Eut was compliant with this requirement.

ANT 0

Channel	26dB BW(MHz)	99% BW(MHz)	Limit
CH4	1.404	1.2215	
CH2	1.404	1.2199	∕2 FMU¬
CH0	1.404	1.2206	<2.5MHz
AVG	1.404000	1.220667	

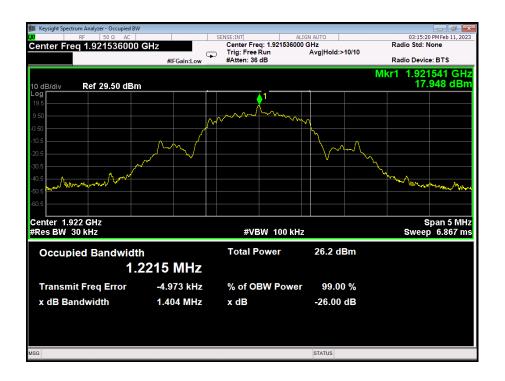
ANT 1

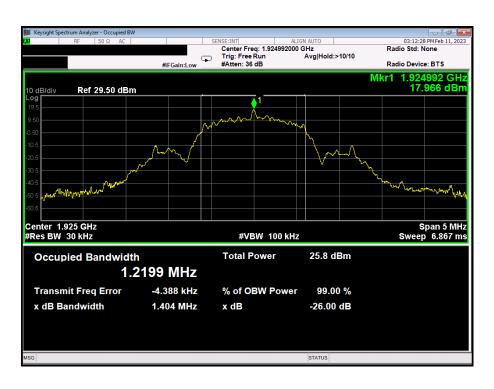
	3 33 3		
Channel	26dB BW(MHz)	99% BW(MHz)	Limit
CH4	1.404	1.2206	
CH2	1.405	1.2202	<2.5MHz
CH0	1.403	1.2214	∠Z.SIVI⊓Z
AVG	1.404000	1.220733	

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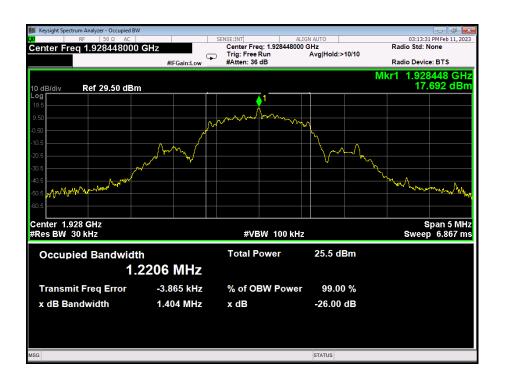
ANT 0 CH4







CH₀



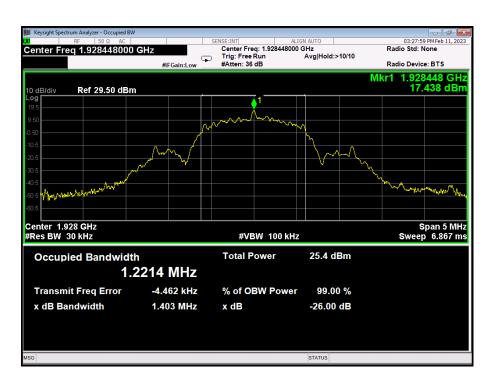
ANT 1 CH4







CH₀





5.4 PEAK TRANSMIT POWER TEST OVERVIEW

§15.319(c): The peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in hertz. Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 6.1.2, which provides the test methodology for this provision. The EUT is controlled from a personal computer and set into continuous transmission mode.

TEST SETUP

The test setup is shown in section 3.2 figure 1.

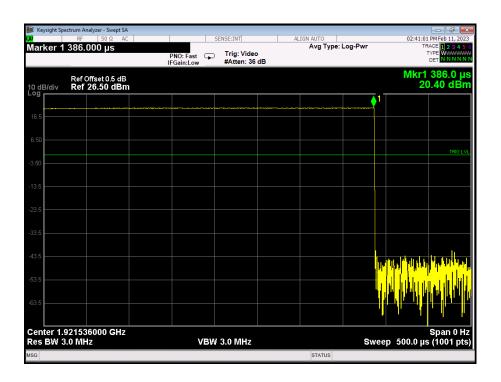
TEST RESULTS

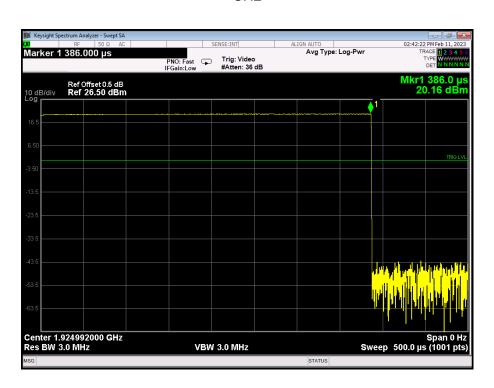
ANT 0

Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)	Limit (uw)	Limit (dBm)
CH4	1921.536	20.40	118491	20.74
CH2	1924.992	20.16	118491	20.74
CH0	1928.448	19.95	118491	20.74
EBWLow Channel=		1404000		
EBWMid Channel=		1404000		
EBWHigh Channel=	1404000			Hz
Note:Peak Transmitter Power Limit=100 (EBW) 1/2μW				

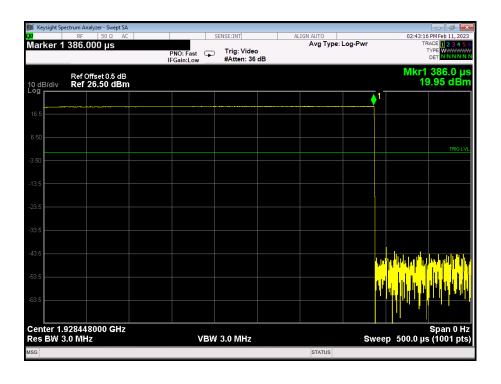
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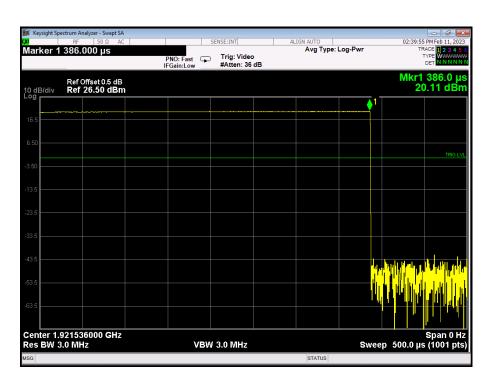




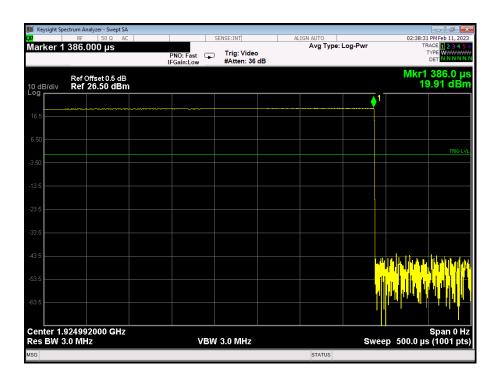


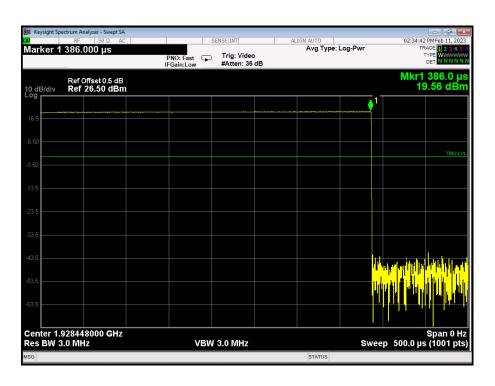
ANT 1

Carrier Channel	Frequency (MHz)	Measured Peak Output Power (dBm)	Limit (uw)	Limit (dBm)
CH4	1921.536	20.11	118491	20.74
CH2	1924.992	19.91	118533	20.74
CH0	1928.448	19.56	118448	20.74
EBWLow Channel=	1404000			Hz
EBWMid Channel=	1405000			Hz
EBWHigh Channel=	1403000			Hz
Note:Peak Transmitter Power Limit=100 (EBW) 1/2μW				











5.5 POWER SPECTRAL DENSITY TEST OVERVIEW

§15.319(d): Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 6.1.5, which provides the test methodology for this provision.

TEST SETUP

The test setup is shown in section 3.2 figure 1.

TEST RESULTS

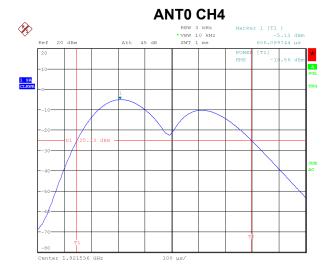
Note: Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

ANT 0

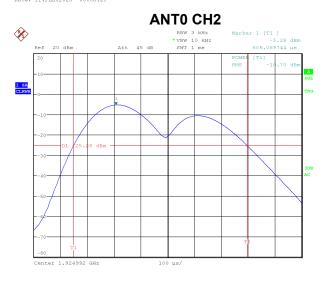
	Fraguency	Measured Peak			
Carrier Channel	Frequency (MHz)	Power Spectral	Limit(mw)	Limit(dBm)	
		Density (dBm)			
CH4	1921.536	-10.82			
CH2	1924.992	-10.70	3	4.77	
CH0	1928.448	-10.56			

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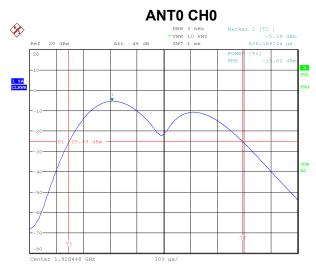




Date: 11.FEB.2023 00:08:25



Date: 11.FEB.2023 00:08:25



Date: 11.FEB.2023 00:08:25



5.6 POWER ADJUSTMENT FOR ANTENNA GAIN <u>TEST OVERVIEW</u>

§15.319(e): The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3 dBi.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 4.3.1, which provides the test methodology for this provision.

TEST RESULT

Equipment Employs a 0.5 dBi Antenna. Max output power allowed with this gain by the EUT is 20.40dBm. The Max output power does not need to be reduced.

The Output Power complies with the Power Adjustment for Antenna Gain requirements of §15.319(e).

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5.7 AUTOMATICALLY DISCONTINUE TRANSMISSION

OVERVIEW

§15.319(f): The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

TEST RESULTS

	Test	Reaction of EUT	Result
1	Remove Power from Companion Device	Α	Pass
2	Switch off the companion device	Α	Pass
3	Terminate call at the companion device	NA1	Pass
4	Switch off the EUT	NA2	Pass
5	Terminate call at the EUT	NA3	Pass

- A Connection was terminated and transmission ceased.
- B Connection was terminated but the EUT transmits control or signaling information.
- C Connection was terminated but the companion device transmits control or signaling information.
- NA 1 Companion Device does not have an on/off switch for terminate call.
- NA 2 EUT does not have an on/off switch.
- NA 3 EUT does not have a switch for terminate call.

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5.8 SYSTEM ACKNOWLEDGE-MENT TEST TEST OVERVIEW

§ 15.323(c)(4): Once access to specific combined time and spectrum windows is obtained an acknowledgment from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgments must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgment, at which time the access criteria must be repeated.

TEST PROCEDURE

Measurement method according to ANSI C63.17 2013 clause 8.2.1

During testing initial transmission without acknowledgement, the signal from the EUT to the companion device is blocked by the circulator.

The test of the transmission time after loss of acknowledgements is performed by cutting off the signal from the companion device by a RF switch and measuring the time until the EUT stops transmitting.

TEST SETUP

The test setup is shown in section 3.2 figure 2.

TEST RESULTS

Note: Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

ANT 0

	ANTO		
Test	Time taken (second)	Limit (second)	Result
Initial Connection acknowledgement	0.75	1	Pass
Change of access criteria for control information	N/A	30	N/A
Transmission cease time after loss of acknowledgement	4.68	30	Pass

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5.9 MONITORING THRESHOLD

TEST OVERVIEW

§15.323 (c)(2). The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth used by the device.

§15.323 (c)(9). Devices that have a power output lower than the maximum permitted under this subpart may increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 7.3, which provides the test methodology for this provision. The Clause states that the lower threshold is for devices that do not use the LIC procedure. The equation for the lower monitoring threshold is given in ANSI C63.17 Clause 4.3.4.

TEST SETUP

The test setup is shown in section 3.2 figure 2.

TEST RESULTS

Note: Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

ANT 0				
Upper Threshold				
В	1404000	MHz		
Mu	50	dB		
Peut	19.56	dBm		
TU	-61.349	dBm		
	Lower Threshold			
В	1404000	MHz		
MI	30	dB		
Peut	20.11	dBm		
TL	-81.899	dBm		

ATTESTATION

The sensor will go into hibernation after a few minutes. It is not possible to keep a connection running very long. Therefore, this requirement is not applicable.

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5.10 DURATION OF TRANSMISSION TEST OVERVIEW

§15.323 (c)(3) If no signal above the threshold level is detected, transmission may commence and continue with the same emission bandwidth in the monitored time and spectrum windows without further monitoring. However, occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 4, which provides the test methodology for this provision. A communication link is established between BS and MS in a conducted mode and in a room without other US DECT devices to prevent influence from other transmissions. According to FCC Part 15.323(c)(3), the access criteria have to be verified at least every 8 hours. The following test is performed:

TEST SETUP

The test setup is shown in section 3.2 figure 2.

TEST RESULT

Note: Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

ANT 0

Test ref. to ANSI C63.17:2013	Observation result	Limit	Verdict	
clause 8.2.2	(H)	(H)		
Transmission duration on same time		0	Door	
and frequency window	0.3	Ö	Pass	



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5.11 SELECTED CHANNEL CONFIRMATION, POWER ACCURACY, SEGMENT OCCUPANCY <u>TEST OVERVIEW</u>

§15.323 (c)(5) If access to spectrum is not available as determined by the above, and a minimum of 40 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level below a monitoring threshold of 50 dB above the thermal noise power determined for the emission bandwidth may be accessed. A device utilizing the provisions of this paragraph must have monitored all access channels defined for its system within the last 10 seconds and must verify, within the 20 milliseconds (40 milliseconds for devices designed to use a 20 milliseconds frame period) immediately preceding actual channel access that the detected power of the selected time and spectrum windows is no higher than the previously detected value. The power measurement resolution for this comparison must be accurate to within 6 dB. No device or group of co-operating devices located within 1 meter of each other shall during any frame period occupy more than 6 MHz of aggregate bandwidth, or alternatively, more than one third of the time and spectrum windows defined by the system.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 7.3.2. & 7.3.3, which provides the test methodology for this provision. The current product offers 12 duplex channels per frequency channel and therefore 12x5=60 duplex channels in total. Hence Part §15.323(c)(5) applies. The equation for the upper monitoring threshold is given in ANSI C63.17 Clause 4.3.3. Max measured interference level (dBm) = -85.02 dBm

TEST SETUP

The test setup is shown in section 3.2 figure 2.

MONITORING LIMIT THRESHOLD

The EUT's monitoring limit threshold power at the monitoring antenna terminals shall be less than a maximum, shown in Equation (3):

 $T_L \le (-174 + 10 \log B + M_L + P_{MAX} - P_{EUT}) dBm$

 M_L is a level specified by the manufacturer and is the maximum amount in decibels by which the limiting threshold may exceed thermal noise for an EUT transmitting the maximum allowed power.

Calculation of monitoring threshold limits for isochroous devices:

Lower threshold: $T_L=-174+10log_{10}B+M_L+P_{MAX}-P_{EUT}(dBm)$

Where: B= Emission bandwidth (Hz)

 M_L = dB the threshold may exceed thermal noise (30 for T_L)

 $P_{MAX}=5Log_{10}B-10(dBm)$

P_{EUT}=Transmitted power (dBm)

Monitor Threshold	B(MHz)	M _L (dB)	P _{MAX} (dBm)	P _{EUT} (dBm)	Threshold(dBm)
Lower threshold	1.2199	30	20.43	20.40	-83.107

Note: 1. The upper threshold is applicable as the EUT utilizes more than 20 duplex system channels

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TEST RESULTS

1) LIC procedure test:

Interference (Refer to ANSI C63.17 clause 7.3.3)	Reaction fo EUT	Results
a) Apply the interference on f1 at level $T_L + U_M + 7dB$ and the interference on f_2 at level $T_L + U_{M-}$ Initiate transmission and verify the transmission only on f_2 . Repeat 5 times.	EUT transmits on f2	Pass
b) Apply the interference on f_1 at level $T_L + U_M$ and the interference on f_2 at level $T_L + U_M + 7 dB$. Initiate transmission and verify the transmission only on f_1 . Repeat 5 times.	EUT transmits on f1	Pass
c) Apply the interference on f_1 at level $T_L + U_M + 1$ dB and the interference on f_2 at level $T_L + U_M - 6$ dB. Initiate transmission and verify the transmission only on f_2 . Repeat 5 times.	EUT transmits on f2	Pass
d) Apply the interference on f_1 at level $T_L + U_M$ -6dB and the interference on f_2 at level $T_L + U_M$ +1dB. Initiate transmission and verify the transmission only on f_2 .Repeat 5 times.	EUT transmits on f1	Pass

2) Selected channel confirmation:

Interference (Refer to ANSI C63.17 clause 7.3.4)	Reaction fo EUT	Results
a) Apply the interference on f_1 at level $T_L + U_M$ and no interference on f_2 . Initiate transmission and verify the transmission only on f_2 . Then terminate it.	EUT transmits on f2	Pass
b) Apply the interference on f_2 at level $T_L + U_M$ and immediately remove all interference from f_1 . The EUT should immediately attempt transmission f_1 (but at least 20ms after the interference on f_2 is applied), verify the transmission only on f_1 .	EUT transmits on f1	Pass

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5.12 RANDOM WAITING TEST CRITERIA

§15.323 (c)(6)) if the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same windows after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 8.1.3, which provides the test methodology for this provision.

ATTESTATION

The Manufacturer declared that this provision is not utilized by the EUT.

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5.13 MONITORING REQUIREMENTS TEST CRITERIA

§15.323 (c)(7) The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission and have a maximum reaction time less than 50xSQRT(1.25/emission bandwidth in MHz) microseconds for signals at the applicable threshold level but shall not be required to be less than 50 microseconds. If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall be 35xSQRT (1.25/emission bandwidth in MHz) microseconds but shall not be required to be less than 35 microseconds.

TEST PROCEDURE

Measurement method according to ANXI C63.17 2013 clause 7.5

- a) Restrict the EUT to a single transmit carrier frequency f1, and verify that the EUT can establish a connection with no interference applied on f1.
- b) Apply time-synchronized, pulsed interference on f1 at the pulsed level TL+UM, veify that the EUT does not establish a connection when the width of the interference pulse exceeds the largest of 50 μ s and 50 $\sqrt{1.25}$ / B μ s,where B is the emission bandwidth of the EUT in megahertz.
- c) With the channel interference level 6dB above TL+UM, verify that the EUT does not eatablish a connection when the width of the interference pulse exceeds the largest of 35 μ s and 35 ν 1.25/B μ s, where B is the emission bandwidth of the EUT in megahertz.

Test pulse width Equation(µs)	B(bandwidth)(MHz)	Pulse width(µs)	Limit(Largest)(µs)
50(1.25/B) ^{1/2}	1.2199	46.72	50
35(1.25/B) ^{1/2}	1.2199	32.56	35

TEST SETUP

The test setup is shown in section 3.2 figure 2.

TEST RESULTS

1) Monitoring Bandwidth:

The antenna of the EUT used for monitoring is the same interior antenna that used for transmission, so the monitorting system bandwidth is equall to the emission bandwidth of the intended transmission.

2) Reaction Time Test:

No.	Interference Pulse width(µs)	Reaction of EUT	Observing time(µs)	Result
1	50 μ s with level T_L+U_m	No transmission	25.3	Pass
2	$35 \mus$ with level $T_L + U_M + 6dB$	No transmission	18.744	Pass

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5.14 MONITORING ANTENNA TEST CRITERIA

§15.323 (c)(8) Transmission is intended to occupy. The following criteria must be met: (8) The monitoring system shall use the same antenna used for transmission, or an antenna that yields equivalent reception at that location.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 4, which provides the test methodology for this provision.

ATTESTATION

The EUT uses the same antennas for transmission and reception as for monitoring

5.15 DUPLEX CONNECTIONS

TEST CRITERIA

§15.323 (c)(10) An initiating device may attempt to establish a duplex connection bymonitoring both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 8.3, which provides the test methodology for this provision. The MS is the initiating device and the BS is the companion device.

TEST RESULTS

The Manufacturer declares that this provision is not utilized by the EUT.

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5.16 ALTERNATIVE MONITORING INTERVAL FOR CO-LOCATED DEVICES

TEST CRITERIA

§15.323 (c)(11) an initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a co-located (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The Monitored time and spectrum window must total at least 50 percent of the 10 millisecond frame interval and the monitored spectrum must be within the 1.25 mhz frequency channel(s) already occupied by that device or co-located co-operating devices. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in The intended transmit window by the initiating device may commence.

TEST PROCEDURE

Testing to ANSI C63.17-2013 Clause 8.4, which provides the test methodology for this provision. The MS is initiating device and the BS is the companion device.

TEST RESULTS

The Manufacturer declares that this provision is not utilized by the EUT.

5.17 FAIR ACCESS

TEST CRITERIA

§15.323 (c)(12) The provisions of (c)(10) or (c)(11) of this section shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.

TEST PROCEDURE

The manufacturer supplies an attestation.

ATTESTATION

The manufacturer declares that the EUT does not work in a mode which denies fair access to spectrum for other devices.

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5.18 SPURIOUS EMISSIONS TEST CRITERIA

§15.323(d)(1): Out of Band Emissions

Emissions shall be attenuated below a reference power of 112 milliwatts as follows: 30 dB between the band edge and 1.25 MHz above or below the band; 50 dB between 1.25 and 2.5 MHz above or below the band; and 60 dB at 2.5 MHz or greater above or below the band.

§15.323(d)(2): In-Band Emissions

Emissions inside the band must comply with the following emission mask: In the bands between 1B and 2B measured from the center of the emission bandwidth, the total power emitted by the device shall be at least 30 dB below the transmit power permitted for that device; in the bands between 2B and 3B measured from the center of the emission bandwidth, the total power emitted by an intentional radiator shall be at least 50 dB below the transmit power permitted for that radiator; in the bands between 3B and the band edge, the total power emitted by an intentional radiator in the measurement bandwidth shall be at least 60 dB below the transmit power permitted for that radiator. "B" is defined as the emission bandwidth of the device in hertz. Compliance with the emission limits is based on the use of measurement instrumentation employing peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

TEST PROCEDURE

For both in and out of band emissions the EUT was connected directly to a spectrum analyzer. The RBW of the spectrum analyzer was set to a minimum 1% of the emission band width.

TEST SETUP

The test setup is shown in section 3.2 figure 1.

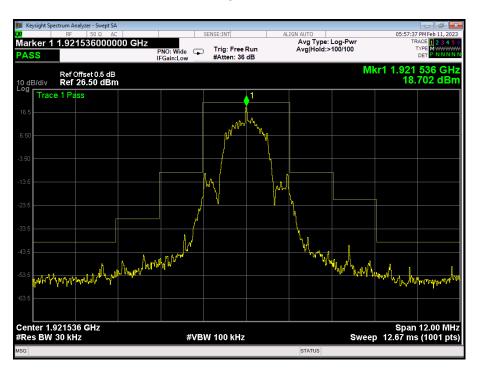
TEST RESULTS

Equipment complies with the Spurious Emission limits of § 15.323(d)(1).

Note: Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

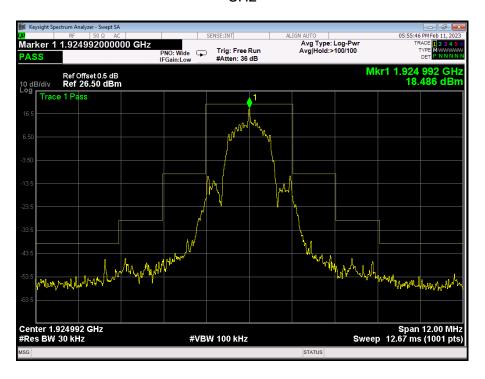
In-Band Emissions

CH4

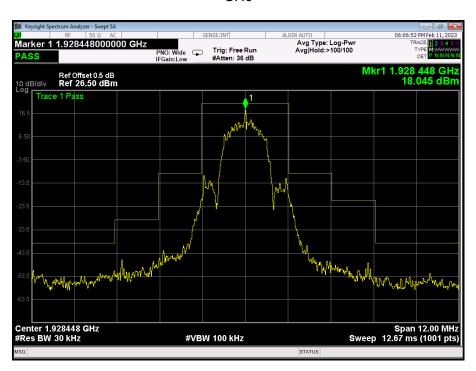


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CH₀



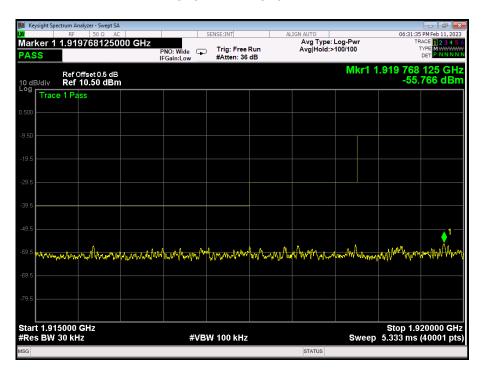


Out of Band Emissions

CH4 30MHz - 1915 MHz



1915 MHz - 1920 MHz





1930 MHz - 1935 MHz



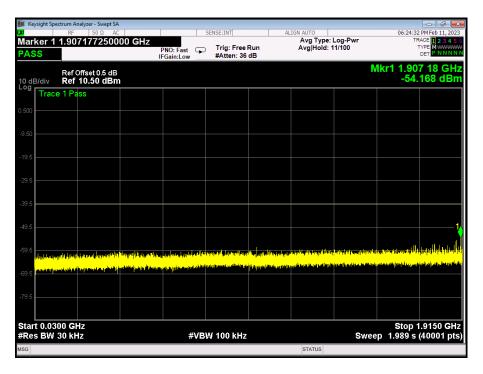
1935 MHz - 20GHz



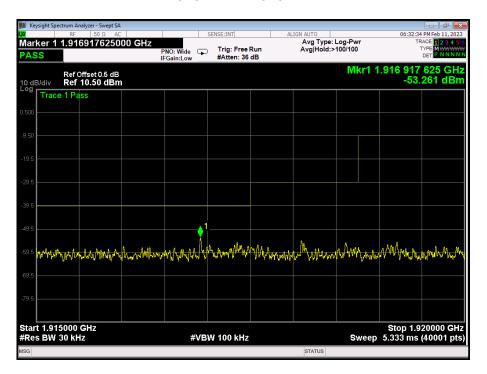
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CH2 30MHz - 1915 MHz



1915 MHz - 1920 MHz



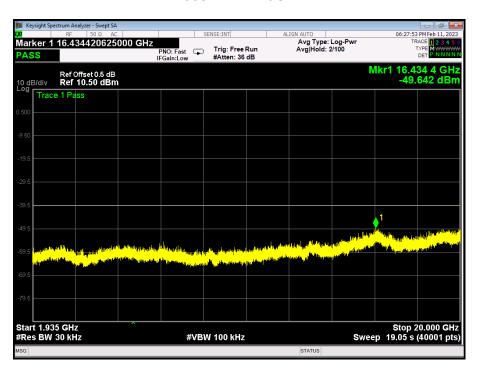
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1930 MHz - 1935 MHz



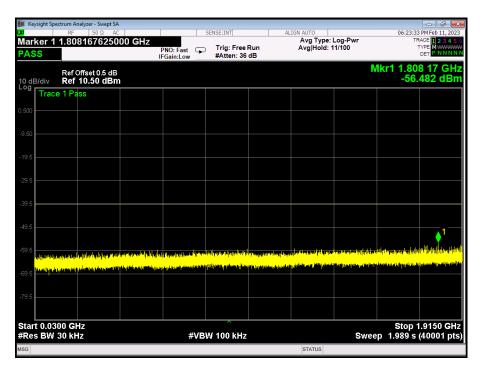
1935 MHz - 20GHz



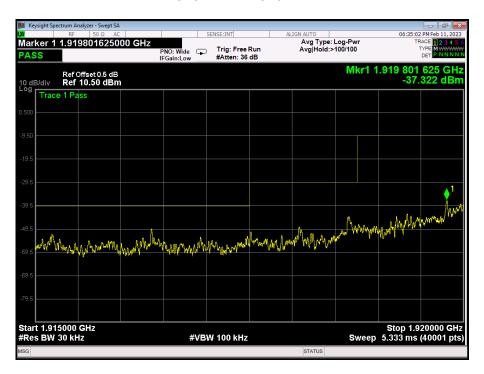
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CH0 30MHz - 1915 MHz



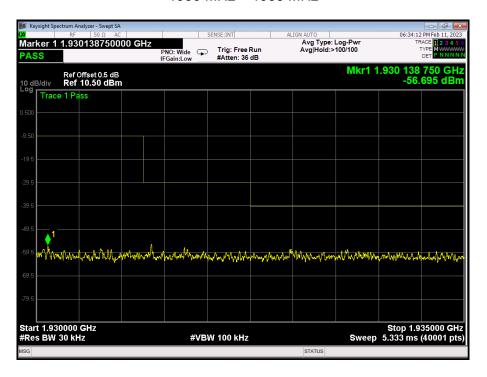
1915 MHz - 1920 MHz



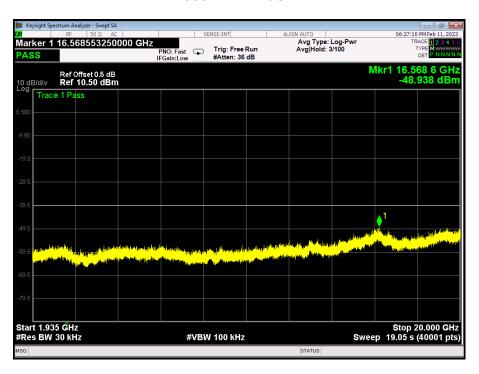
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1930 MHz - 1935 MHz



1935 MHz - 20GHz



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5.19 FRAME PERIOD TEST CRITERIA

§15.323 (e) The frame period (a set of consecutive time slots in which the position of each time slot can be identified by reference to a synchronizing source) of an intentional radiator operating in these subbands shall be 20 milliseconds or 10 milliseconds/X where X is a positive whole number. Each device that implements time division for the purposes of maintaining a duplex connection on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 50 parts per million (ppm). Each device which further divides access in time in order to support multiple communication links on a given frequency carrier shall maintain a frame repetition rate with a frequency stability of at least 10 ppm.

Timing Jitter

§ 15.323 (e) Specific requirements for isochronous devices operating in the 1920–1930 MHz sub-band. The jitter (time-related, abrupt, spurious variations in the duration of the frame interval) introduced at the two ends of such a communication link shall not exceed 25 microseconds for any two consecutive transmissions. Transmissions shall be continuous in every time and spectrum window during the frame period defined for the device.

TEST LIMIT

Frame Period	20 or 10ms
Max Jitter	25μs
3 times St.Dev of Jitter	12.5µs

TEST SETUP

The test setup is shown in section 3.2 figure 2.

TEST PROCEDURE

The manufacturer supplies an attestation

TEST RESULTS

The Frame Repetition Stability is measured with the RF Test Platform for DECT. The Frame Repetition Stability is 3 times the standard deviation.

ANT 0

Channel	Standard Devia- tion(ppm)	Frame Repetition	The limit of Frame Repetition Stability(ppm)	Verdict
Middle	0.6723	2.0169	±10	Pass

	Frame	Max Jitter	3xStandard		Limit(µs)	
Channel	Period (ms)	(µs)	Deviation of Jitter(µs)	Max Jitter	3 times St.Dev.of Jitter	Verdict
CH2	10.0000	-0.5000	2.0169	25	12.5	Pass

Max Jitter= (1/(Frame Period+Pk-Pk)/2)-(1/Frame Period). When Pk-Pk and Frame period are in Hz. 3x St.Dev. Jitter 3 x(1/(Frame Period +St. Dev))-(1/St.Dev)) x10⁶

Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

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5.20 FREQUENCY STABILITY TEST CRITERIA

§15.323 (f) The frequency stability of the carrier frequency of the intentional radiator shall be maintained within ±10ppm over 1hour or the interval between channel access monitoring, whichever is shorter. The frequency stability shall be maintained over a temperature variation of -20° to +50° C at normal supply voltage and over a variation in the primary supply voltage of 85% to 115% of the rated supply voltage at a temperature of 200 C. For equipment that is capable only of operating from a battery, the frequency stability tests shall be performed using a new battery without any further requirement to vary supply voltage.

TEST PROCEDURE

The EUT was placed in the Environmental Chamber and support equipment are outside the chamber on a table. A CW signal was injected into the EUT at the appropriate RF level. The frequency counter option on the Spectrum Analyzer was used to measure frequency deviations.

The frequency drift was investigated for every 10° C increment until the unit is stabilized then recorded the reading in tabular format with the temperature range of -20° to +50° C.

Voltage supplied to EUT is DC 3.8V reference temperature was done at 20° C.

TEST SETUP

The test setup is shown in section 3.2 figure 1.

TEST RESULTS

The EUT was compliant with this requirement

Note: Both ANT 0 and ANT 1 have been tested, the worst case is ANT 0, and only shwon the worst case in this report.

ANT 0

Reference Frequency (MHz)	Voltage (V)	Temperature (°C)	Frequency (MHz)	Deviation (ppm)	Limit (ppm)
		50	1921.52658	4.90	
CH4 1921.536		40	1921.52783	4.25	
		30	1921.52673	4.82	.10
	2.0	20	1921.53721	-0.63	
	3.8	10	1921.54029	-2.23	±10
		0	1921.53747	-0.77	
		-10	1921.54491	-4.64	
		-20	1921.54734	-5.90	

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Reference Frequency (MHz)	Voltage (V)	Temperature (°C)	Frequency (MHz)	Deviation (ppm)	Limit (ppm)
		50	1924.99755	-2.88	
		40	1924.99648	-2.33	
	3.	30	1924.99547	-1.80	.10
CH2		20	1925.00231	-5.36	
1924.992		10	1924.99778	-3.00	±10
		0	1924.99822	-3.23	
		-10	1924.98546	3.40	
		-20	1924.98411	4.10	

Reference Frequency (MHz)	Voltage (V)	Temperature (°C)	Frequency (MHz)	Deviation (ppm)	Limit (ppm)
		50	1928.44468	1.72	
		40	1928.44248	2.86	
		30	1928.44264	2.78	.10
CH0	2.0	20	1928.43958	4.37	
1928.448	3.8	10	1928.44747	0.27	±10
		0	1928.44833	-0.17	
		-10	1928.44986	-0.96	
		-20	1928.44923	-0.64	

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5.21 CONDUCTED EMISSION MEASUREMENT POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)			
FREQUENCY (IVIIIZ)	Quasi-peak	Average		
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

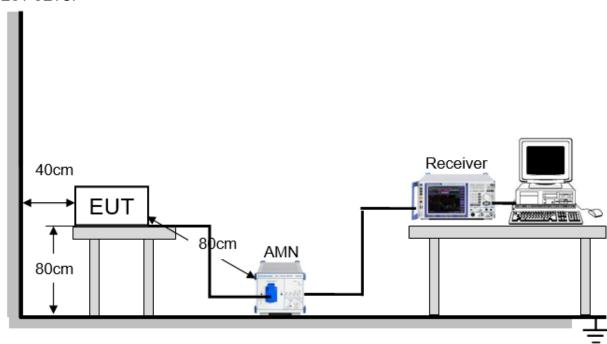
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TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

TEST SETUP



EUT OPERATING CONDITIONS

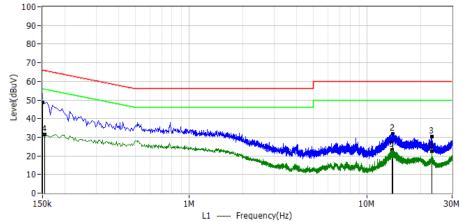
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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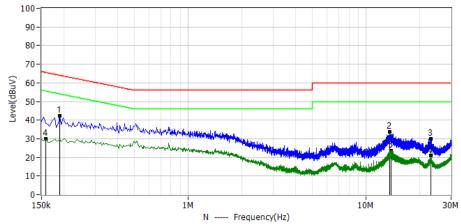


TEST RESULTS

Project: LGT23L057	Test Engineer: Dylan.shi
EUT: DECT wireless Headset	Temperature: 25.3℃
M/N: S5 Pro VCV5000	Humidity: 66%RH
Test Voltage: AC 120V/60Hz	Test Data: 2023-01-14
Test Mode: TX	
Note:	



No.	Frequency	Read- ing dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	150.000kHz	38.30	10.50	48.80	66.00	-17.20	PK	L1
2*	13.978MHz	20.65	11.02	31.67	60.00	-28.33	PK	L1
3*	23.130MHz	19.24	11.17	30.41	60.00	-29.59	PK	L1
4*	154.000kHz	21.05	10.50	31.55	55.78	-24.23	AV	L1
5*	13.794MHz	12.15	11.02	23.17	50.00	-26.83	AV	L1
6*	23.130MHz	11.29	11.17	22.46	50.00	-27.54	AV	L1



No.	Frequency	Read- ing dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	190.000kHz	31.64	10.50	42.14	64.04	-21.89	PK	N
2*	13.602MHz	22.63	11.02	33.65	60.00	-26.35	PK	N
3*	23.106MHz	18.70	11.19	29.89	60.00	-30.11	PK	N
4*	158.000kHz	19.60	10.50	30.10	55.57	-25.47	AV	N
5*	13.794MHz	12.60	11.02	23.62	50.00	-26.38	AV	N
6*	23.130MHz	9.67	11.19	20.86	50.00	-29.14	AV	N

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5.22 RADIATED SPURIOUS EMISSION RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	(dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54			

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting			
Attenuation	Auto			
Detector	Peak/AV			
Start Frequency	1000 MHz(Peak/AV)			
Stop Frequency	10th carrier hamonic(Peak/AV)			
RB / VB (emission in restricted	1 MHz / 3 MHz			
band)	I WINZ / 3 WINZ			

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up

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to 1GHz, and above 1GHz.

- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the ANT 1re set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

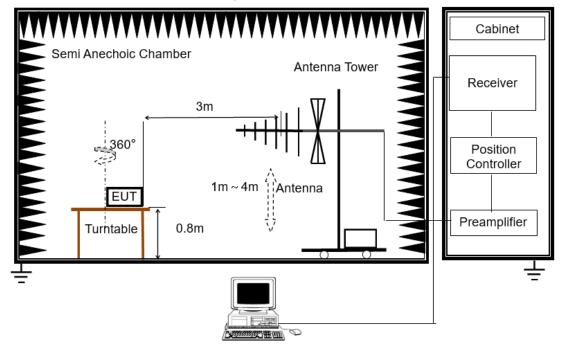
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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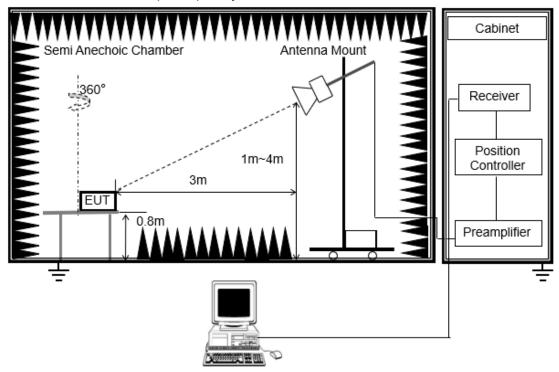


TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz



EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: LGT22L057RF02



FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

Margin=PL-PK L or AL- AV L; Margin only shown the worst case.

Where

PR = Peak Reading

AR = Average Reading

PL = Peak Level

AL = Average Level

AF = Antenna Factor

PK L = Peak Limit

AV L = AV Limit

For example

Frequency	PR	AR	AF	PL	AL	PK L	AV L	Margin
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
2178	40.23	30.31	9.83	50.06	40.14	74.00	54.00	-13.86

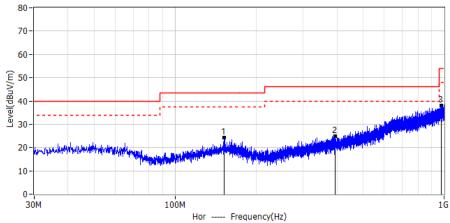
Factor=AF+CL-AG

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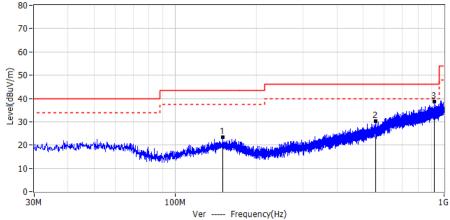


TEST RESULTS(30MHz - 1GHz)

Project: LGT22L057	Test Engineer: Dylan.shi
EUT: DECT wireless Headset	Temperature: 23.1℃
M/N: S5 Pro VCV5000	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2023-01-15
Test Mode: TX	
Note:	



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No.	Frequency	Read- ing dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	152.705MHz	4.28	19.95	24.23	43.50	-19.27	PK	Hor
2*	392.659MHz	2.39	22.62	25.01	46.00	-20.99	PK	Hor
3*	975.508MHz	3.68	34.45	38.13	54.00	-15.87	PK	Hor

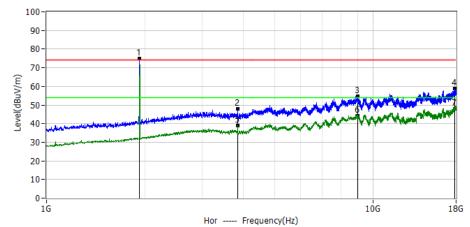


No.	Frequency	Read- ing dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	150.644MHz	3.48	19.98	23.46	43.50	-20.04	PK	Ver
2*	556.589MHz	3.92	26.34	30.26	46.00	-15.74	PK	Ver
3*	917.793MHz	5.39	33.34	38.73	46.00	-7.27	PK	Ver

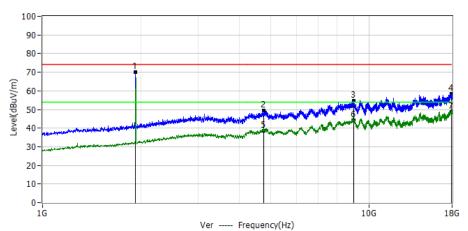


TEST RESULTS(Above 1GHz)

Project: LGT22L057	Test Engineer: Dylan.shi
EUT: DECT wireless Headset	Temperature: 23.1℃
M/N: S5 Pro VCV5000	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2023-01-15
Test Mode: ANT0 CH0 1928.448	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.929GHz	/	/	/	/	/	PK	Hor
2*	3.858GHz	55.93	-8.05	47.88	74.00	-26.12	PK	Hor
3*	8.994GHz	55.83	-1.19	54.64	74.00	-19.36	PK	Hor
4*	17.851GHz	50.45	8.42	58.87	74.00	-15.13	PK	Hor
5*	3.858GHz	47.05	-8.05	39.00	54.00	-15.00	AV	Hor
6*	8.994GHz	45.29	-1.19	44.10	54.00	-9.90	AV	Hor
7*	17.851GHz	39.68	8.42	48.10	54.00	-5.90	AV	Hor

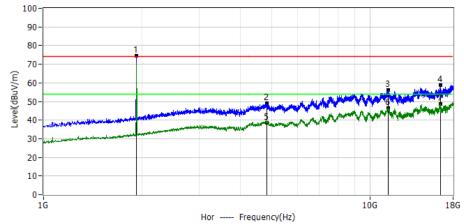


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.929GHz	/	/	/	/	/	PK	Ver
2*	4.774GHz	55.51	-5.97	49.54	74.00	-24.46	PK	Ver
3*	8.994GHz	55.93	-1.19	54.74	74.00	-19.26	PK	Ver
4*	17.947GHz	49.78	8.48	58.26	74.00	-15.74	PK	Ver
5*	4.774GHz	44.57	-5.97	38.60	54.00	-15.40	AV	Ver
6*	8.994GHz	45.49	-1.19	44.30	54.00	-9.70	AV	Ver
7*	17.947GHz	40.12	8.48	48.60	54.00	-5.40	AV	Ver

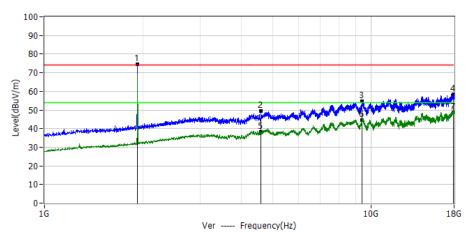
Report No.: LGT22L057RF02 Page 54 of 61



Project: LGT22L057	Test Engineer: Dylan.shi
1.10]000. 20.122200.	,
EUT: DECT wireless Headset	Temperature: 23.1℃
LOT. DEGT WHOIGGOTTGGGGGG	'
M/N: S5 Pro VCV5000	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2023-01-15
,	1.00(2.00.2000)
Test Mode: ANT0 CH2 1924.992	
N. (
Note:	



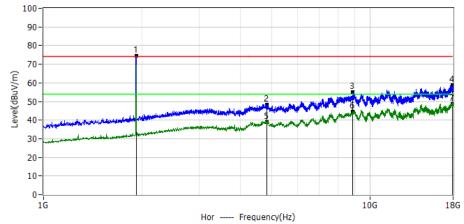
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.924GHz	1	1	/	/	/	PK	Hor
2*	4.827GHz	55.09	-6.01	49.08	74.00	-24.92	PK	Hor
3*	11.402GHz	54.29	1.87	56.16	74.00	-17.84	PK	Hor
4*	16.464GHz	51.66	6.98	58.64	74.00	-15.36	PK	Hor
5*	4.827GHz	44.51	-6.01	38.50	54.00	-15.50	AV	Hor
6*	11.402GHz	44.53	1.87	46.40	54.00	-7.60	AV	Hor
7*	16.464GHz	41.62	6.98	48.60	54.00	-5.40	AV	Hor



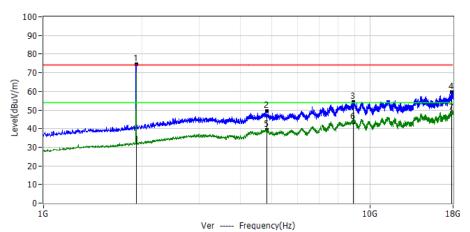
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.924GHz	/	/	/	/	/	PK	Ver
2*	4.608GHz	55.21	-5.84	49.37	74.00	-24.63	PK	Ver
3*	9.419GHz	55.88	-1.17	54.71	74.00	-19.29	PK	Ver
4*	17.911GHz	49.96	8.46	58.42	74.00	-15.58	PK	Ver
5*	4.608GHz	44.04	-5.84	38.20	54.00	-15.80	AV	Ver
6*	9.419GHz	45.87	-1.17	44.70	54.00	-9.30	AV	Ver
7*	17.911GHz	40.14	8.46	48.60	54.00	-5.40	AV	Ver



Project: LGT22L057	Test Engineer: Dylan.shi
EUT: DECT wireless Headset	Temperature: 23.1℃
M/N: S5 Pro VCV5000	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2023-01-15
Test Mode: ANT0 CH4 1921.536	
Note:	



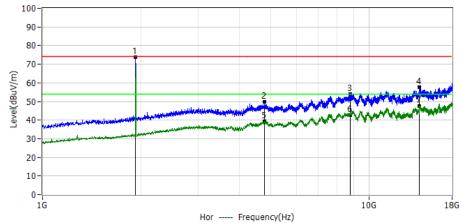
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.922GHz	1	1	/	/	/	PK	Hor
2*	4.831GHz	54.44	-6.01	48.43	74.00	-25.57	PK	Hor
3*	8.867GHz	56.51	-1.55	54.96	74.00	-19.04	PK	Hor
4*	17.943GHz	50.31	8.48	58.79	74.00	-15.21	PK	Hor
5*	4.831GHz	45.11	-6.01	39.10	54.00	-14.90	AV	Hor
6*	8.867GHz	46.05	-1.55	44.50	54.00	-9.50	AV	Hor
7*	17.943GHz	40.32	8.48	48.80	54.00	-5.20	AV	Hor



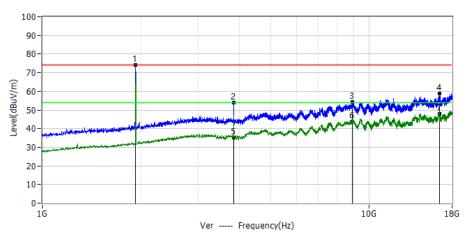
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.922GHz	/	1	/	/	/	PK	Ver
2*	4.838GHz	55.32	-6.02	49.30	74.00	-24.70	PK	Ver
3*	8.914GHz	55.71	-1.41	54.30	74.00	-19.70	PK	Ver
4*	17.798GHz	51.01	8.38	59.39	74.00	-14.61	PK	Ver
5*	4.838GHz	45.22	-6.02	39.20	54.00	-14.80	AV	Ver
6*	8.914GHz	45.01	-1.41	43.60	54.00	-10.40	AV	Ver
7*	17.798GHz	40.02	8.38	48.40	54.00	-5.60	AV	Ver



Project: LGT22L057	Test Engineer: Dylan.shi
EUT: DECT wireless Headset	Temperature: 23.1℃
M/N: S5 Pro VCV5000	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2023-01-15
Test Mode: ANT1 CH0 1928.448	
Note:	



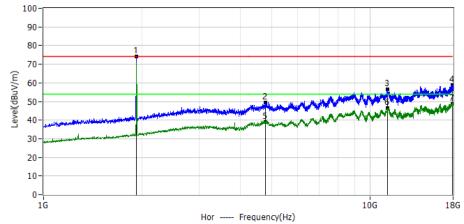
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.929GHz	1	1	/	/	/	PK	Hor
2*	4.795GHz	55.81	-5.98	49.83	74.00	-24.17	PK	Hor
3*	8.788GHz	55.84	-1.77	54.07	74.00	-19.93	PK	Hor
4*	14.311GHz	51.74	5.90	57.64	74.00	-16.36	PK	Hor
5*	4.795GHz	45.28	-5.98	39.30	54.00	-14.70	AV	Hor
6*	8.788GHz	44.37	-1.77	42.60	54.00	-11.40	AV	Hor
7*	14.311GHz	41.60	5.90	47.50	54.00	-6.50	AV	Hor



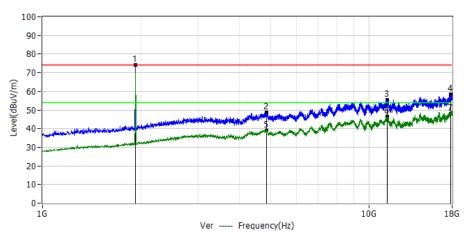
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.929GHz	/	1	/	/	/	/	Ver
2*	3.856GHz	61.86	-8.05	53.81	74.00	-20.19	PK	Ver
3*	8.918GHz	55.81	-1.40	54.41	74.00	-19.59	PK	Ver
4*	16.464GHz	51.95	6.98	58.93	74.00	-15.07	PK	Ver
5*	3.856GHz	43.25	-8.05	35.20	54.00	-18.80	AV	Ver
6*	8.918GHz	45.40	-1.40	44.00	54.00	-10.00	AV	Ver
7*	16.464GHz	41.12	6.98	48.10	54.00	-5.90	AV	Ver



Test Engineer: Dylan.shi
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Temperature: 23.1 °C
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Humidity: 55%RH
,
Test Data: 2023-01-15



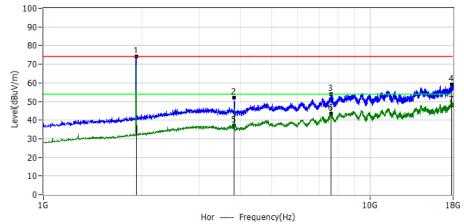
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.927GHz	1	1	/	/	/	PK	Hor
2*	4.776GHz	55.56	-5.97	49.59	74.00	-24.41	PK	Hor
3*	11.342GHz	54.85	1.83	56.68	74.00	-17.32	PK	Hor
4*	17.924GHz	50.47	8.47	58.94	74.00	-15.06	PK	Hor
5*	4.776GHz	44.77	-5.97	38.80	54.00	-15.20	AV	Hor
6*	11.342GHz	44.57	1.83	46.40	54.00	-7.60	AV	Hor
7*	17.924GHz	40.13	8.47	48.60	54.00	-5.40	AV	Hor



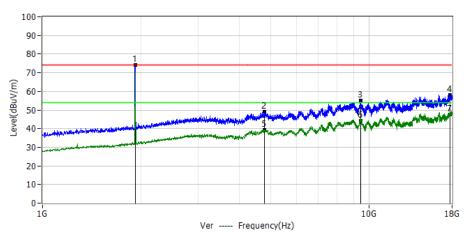
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.924GHz	/	1	/	/	/	PK	Ver
2*	4.848GHz	54.66	-6.02	48.64	74.00	-25.36	PK	Ver
3*	11.398GHz	53.63	1.86	55.49	74.00	-18.51	PK	Ver
4*	17.839GHz	50.07	8.41	58.48	74.00	-15.52	PK	Ver
5*	4.848GHz	44.82	-6.02	38.80	54.00	-15.20	AV	Ver
6*	11.398GHz	44.44	1.86	46.30	54.00	-7.70	AV	Ver
7*	17.839GHz	39.69	8.41	48.10	54.00	-5.90	AV	Ver



Project: LGT22L057	Test Engineer: Dylan.shi
EUT: DECT wireless Headset	Temperature: 23.1℃
M/N: S5 Pro VCV5000	Humidity: 55%RH
Test Voltage: Battery	Test Data: 2023-01-15
Test Mode: ANT1 CH4 1921.536	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.922GHz	1	1	/	/	/	PK	Hor
2*	3.843GHz	60.06	-8.07	51.99	74.00	-22.01	PK	Hor
3*	7.598GHz	58.33	-4.24	54.09	74.00	-19.91	PK	Hor
4*	17.819GHz	50.66	8.39	59.05	74.00	-14.95	PK	Hor
5*	3.843GHz	45.27	-8.07	37.20	54.00	-16.80	AV	Hor
6*	7.598GHz	47.54	-4.24	43.30	54.00	-10.70	AV	Hor
7*	17.819GHz	39.71	8.39	48.10	54.00	-5.90	AV	Hor

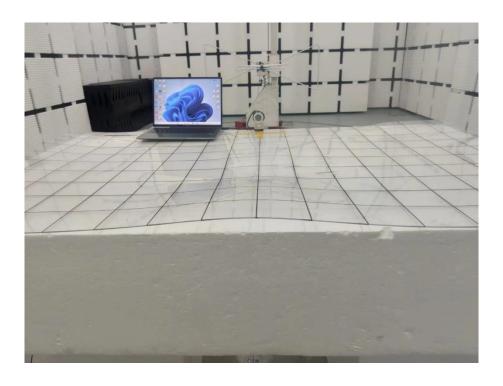


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No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	1.922GHz	/	1	/	/	/	PK	Ver
2*	4.791GHz	55.22	-5.98	49.24	74.00	-24.76	PK	Ver
3*	9.443GHz	56.29	-1.17	55.12	74.00	-18.88	PK	Ver
4*	17.773GHz	49.85	8.36	58.21	74.00	-15.79	PK	Ver
5*	4.791GHz	45.28	-5.98	39.30	54.00	-14.70	AV	Ver
6*	9.443GHz	45.47	-1.17	44.30	54.00	-9.70	AV	Ver
7*	17.773GHz	39.14	8.36	47.50	54.00	-6.50	AV	Ver



APPENDIX I - TEST SETUP

Radiated Spurious Emission Test Setup Photo - Below 1GHz



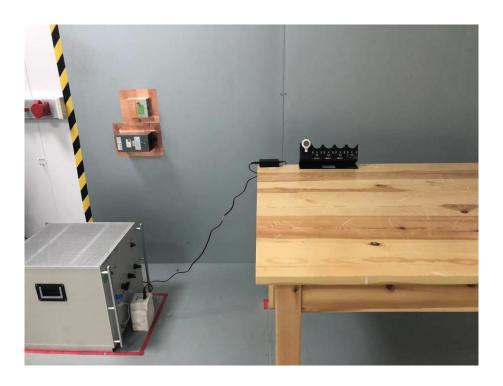
Radiated Spurious Emission Test Setup Photo - Above 1GHz



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Conducted Emission Test Setup Photo



* * * * * END OF THE REPORT * * * * *

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