



RF TEST REPORT

Product Name: Wireless Mechanical Keyboard

Model Number: Node75-LP

FCC ID: 2BE30-NODE75LP

Issued For : Shenzhen NuPhy Technology Co., LTD
3820 Baoshan Times Building, Minqiang Community, Minzhi
Street, Longhua District, Shenzhen, China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25L365RF06

Sample Received Date: Jan. 12, 2026

Date of Test: Jan. 12, 2026 ~ Jan. 29, 2026

Date of Issue: Jan. 29, 2026

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TEST REPORT CERTIFICATION

Applicant: Shenzhen NuPhy Technology Co., LTD
Address: 3820 Baoshan Times Building, Minqiang Community, Minzhi Street,
Longhua District, Shenzhen, China
Manufacturer: SHENZHEN ARBITER TECHNOLOGY CO.,LTD
Address: Floor 2, 3 and 4, Bldg. A, Meisheng Industrial Park, Chongqing Rd.,
Fuhai St., Baoan Dist.,Shenzhen, Guangdong
Product Name: Wireless Mechanical Keyboard
Trademark: NuPhy
Model Number: Node75-LP
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.249, Subpart C ANSI C63.10-2020	PASS

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Technical Director





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Revision History

Rev.	Issue Date	Revisions
00	Jan. 29, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.249	Radiated Spurious Emission	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
15.249	20dB Bandwidth	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	Wireless Mechanical Keyboard	
Test Model Number:	Node75-LP	
Series Number:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK
	Number Of Channel:	40CH
	Antenna Type:	PCB Antenna
	Antenna Gain (dBi):	3.56dBi
Rating:	Input: DC 5V	
Battery:	Capacity: 3000mAh Rated Voltage:3.7V	
Hardware Version:	VER1.3	
Software Version:	V1.0.7.6	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476
08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH00(2402MHz)	GFSK
Mode 2	TX CH19(2440MHz)	GFSK
Mode 3	TX CH39(2480MHz)	GFSK

Note:

(1) All above mode has been measurement, only worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

2.3 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.

Test software Version	Test program: 2.4G	
RFTest_0901_boxed V1.0.7.6	Mode Or Modulation type	Power setting
	1M	0



2.4 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	ASUS	UX3407Q	N/A	N/A
Adapter	HuntKey	HKA06520033-0C 1	N/A	Input: 100-240V ~ 50/60Hz 1.8A Output: 5V3A or 9V3A or 12V3A or 15V5A or 20V3.25A
USB-C to USB-C Cable	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
LISN	COM-POWER	LI-115	02032	2025.03.05	2026.03.04
LISN	SCHWARZBECK	NNLK 8122	00160	2025.03.05	2026.03.04
Transient Limiter	CYBERTEK	EM5010A	E225010004 9	2025.03.05	2026.03.04
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600-N MNM-2M	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-I_V1.4.0.3_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2025.03.06	2026.03.05
Active loop Antenna	ETS	6502	00049544	2025.03.11	2028.03.10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2025.03.05	2026.03.04
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024.05.17	2027.05.16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025.03.10	2028.03.09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023.10.23	2026.10.22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2025.03.06	2026.03.05
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2025.03.06	2026.03.05
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2025.10.20	2026.10.19
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600-N MNM-8M	N.A	2025.03.06	2026.03.05
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B- NMSM-1M 9	N.A	2025.03.06	2026.03.05
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241-0 5000KMSK MS	N.A	2025.03.08	2026.03.07
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Antenna Tower	SAEMC	BK-4AT-BS -D	SK20210930 08	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Testing Software	EMC-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	2025.03.05	2026.03.04
Signal Analyzer	Keysight	N9020A	MY50530994	2025.03.05	2026.03.04
Signal Analyzer	R&S	FSV40-N	102245	2025.02.17	2026.02.16
Power Sensor	R&S	NRP8S	149.0006K02 -104963-Ae	2025.03.06	2026.03.05
RF Automatic Test system	MW	MW100 -RFCB	MW220324L G-33	2025.03.06	2026.03.05
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04



Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025.07.30	2026.07.29
Attenuator	eastsheep	90db	N.A	2025.03.06	2026.03.05
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2025.03.10	2026.03.09
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025.03.05	2026.03.04
DC source	Keysight	E3634A	MY58036468	2025.03.06	2026.03.05
Testing Software	MTS8310_V2.0.0.0_MW				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	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

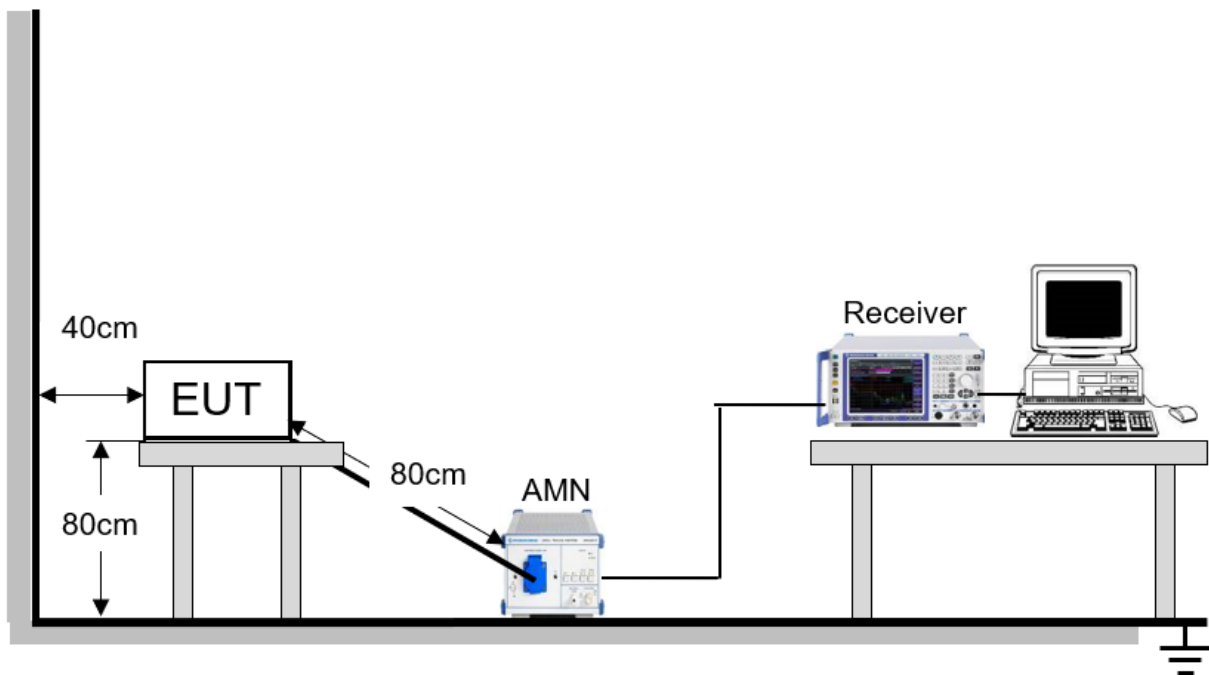
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 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 is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



3.4 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.

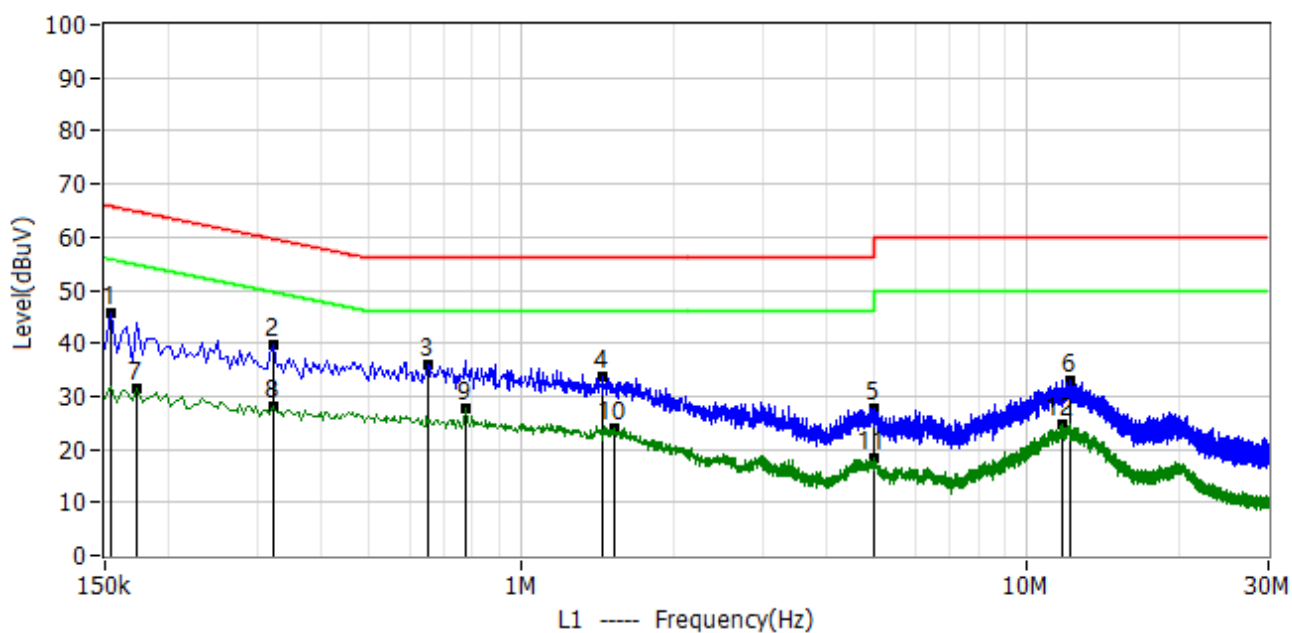


3.5 TEST RESULTS

Note: Level = Reading + Factor

Margin = Level – Limit

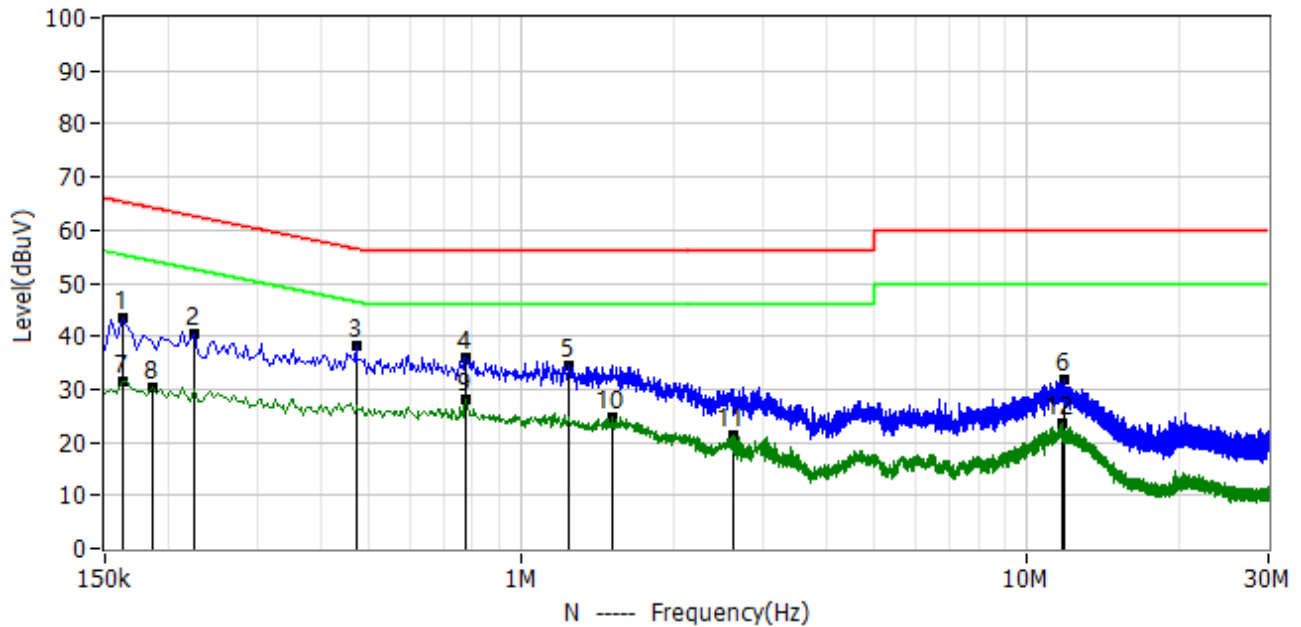
Project: LGT25L365	Test Engineer: LiuH
EUT: Wireless Mechanical Keyboard	Temperature: 23.1°C
M/N: Node75-LP	Humidity: 41%RH
Test Voltage: AC 120V/60Hz	Test Data: 2026-01-12
Test Mode: TX 2.4G 2402MHz	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.154	34.83	10.78	45.61	65.78	-20.17	QP	L1
2*	0.322	28.80	10.83	39.63	59.66	-20.03	QP	L1
3*	0.654	25.00	10.88	35.88	56.00	-20.12	QP	L1
4*	1.446	22.53	11.12	33.65	56.00	-22.35	QP	L1
5*	4.986	16.32	11.34	27.66	56.00	-28.34	QP	L1
6*	12.166	21.37	11.60	32.97	60.00	-27.03	QP	L1
7*	0.174	20.84	10.65	31.49	54.77	-23.28	AV	L1
8*	0.322	17.40	10.83	28.23	49.66	-21.43	AV	L1
9*	0.774	16.78	10.87	27.65	46.00	-18.35	AV	L1
10*	1.526	12.91	11.15	24.06	46.00	-21.94	AV	L1
11*	4.978	6.95	11.34	18.29	46.00	-27.71	AV	L1
12*	11.698	13.19	11.57	24.76	50.00	-25.24	AV	L1



Project: LGT25L365	Test Engineer: LiuH
EUT: Wireless Mechanical Keyboard	Temperature: 23.1°C
M/N: Node75-LP	Humidity: 41%RH
Test Voltage: AC 120V/60Hz	Test Data: 2026-01-12
Test Mode: TX 2.4G 2402MHz	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dB	Detector	Polar
1*	0.162	32.71	10.66	43.37	65.36	-21.99	QP	N
2*	0.226	29.70	10.69	40.39	62.60	-22.21	QP	N
3*	0.470	27.55	10.83	38.38	56.51	-18.13	QP	N
4*	0.778	25.13	10.83	35.96	56.00	-20.04	QP	N
5*	1.238	23.36	10.95	34.31	56.00	-21.69	QP	N
6*	11.858	20.10	11.56	31.66	60.00	-28.34	QP	N
7*	0.162	20.84	10.66	31.50	55.36	-23.86	AV	N
8*	0.186	19.65	10.66	30.31	54.21	-23.90	AV	N
9*	0.778	17.31	10.83	28.14	46.00	-17.86	AV	N
10*	1.514	13.74	11.10	24.84	46.00	-21.16	AV	N
11*	2.630	10.29	11.20	21.49	46.00	-24.51	AV	N
12*	11.702	12.02	11.55	23.57	50.00	-26.43	AV	N



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249, Part 15.209(a) limit in the table below has to be followed.

Standard FCC 15.209

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3
Above 1000	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	3

Standard FCC 15.249

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB



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

4.2 TEST PROCEDURE

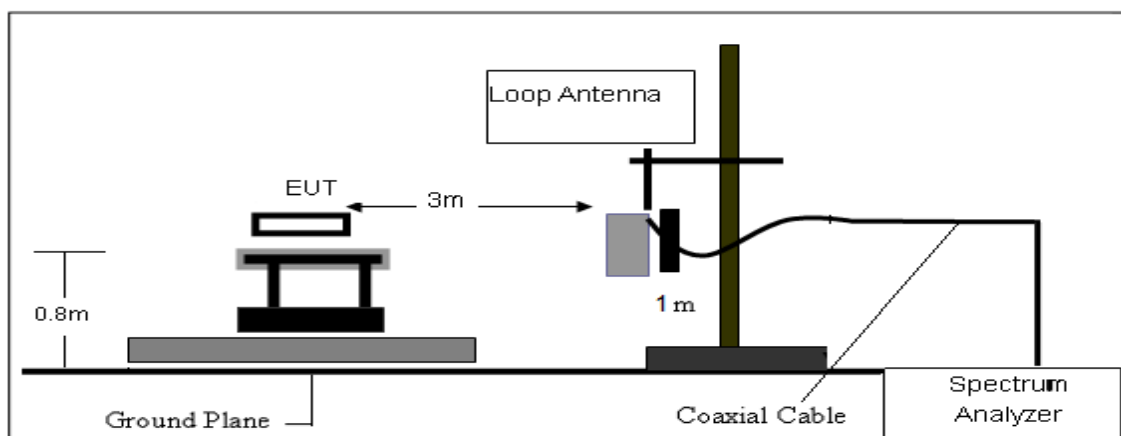
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- 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 polarization of the antenna are set to make the measurement.
- 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 QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

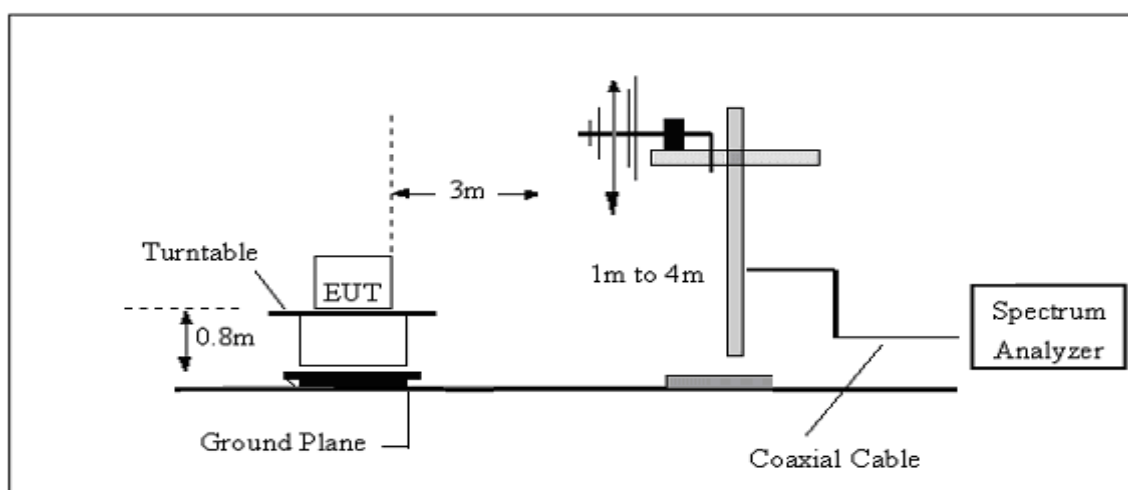
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

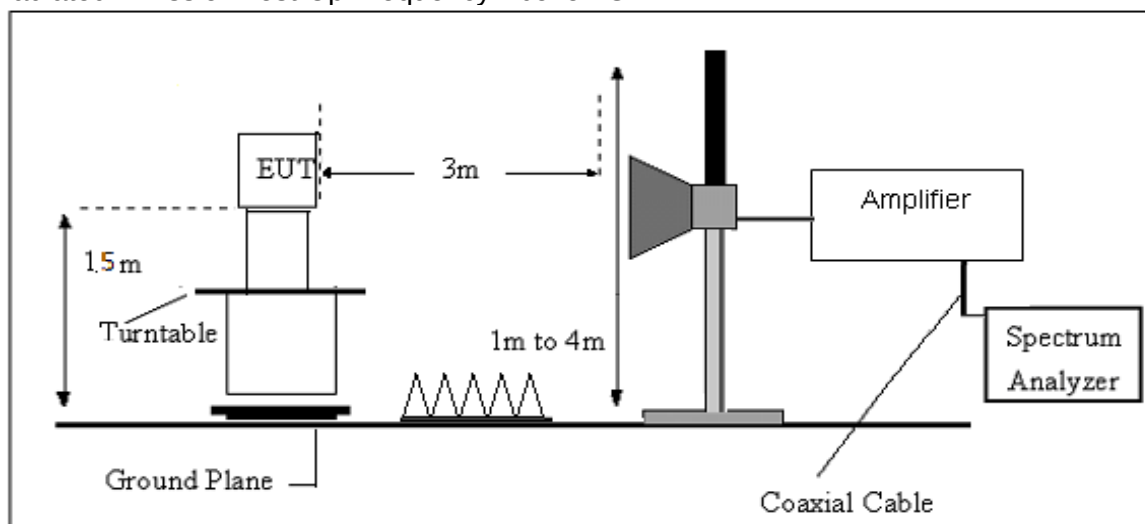
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 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:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

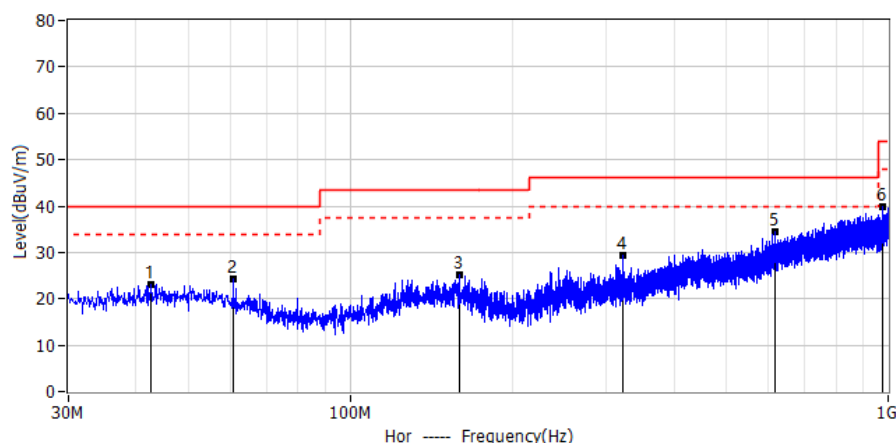
Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

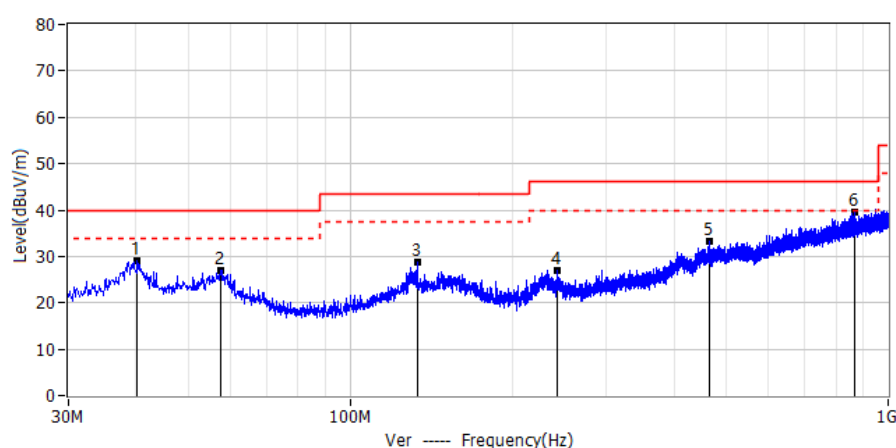


4.6 TEST RESULTS

Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: TX 2.4G 2402MHz	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.731	2.18	20.99	23.17	40.00	-16.83	QP	Hor
2*	60.676	4.45	19.70	24.15	40.00	-15.85	QP	Hor
3*	159.495	3.07	22.11	25.18	43.50	-18.32	QP	Hor
4*	322.213	6.56	22.90	29.46	46.00	-16.54	QP	Hor
5*	615.638	4.44	29.87	34.31	46.00	-11.69	QP	Hor
6*	974.901	4.84	34.98	39.82	54.00	-14.18	QP	Hor

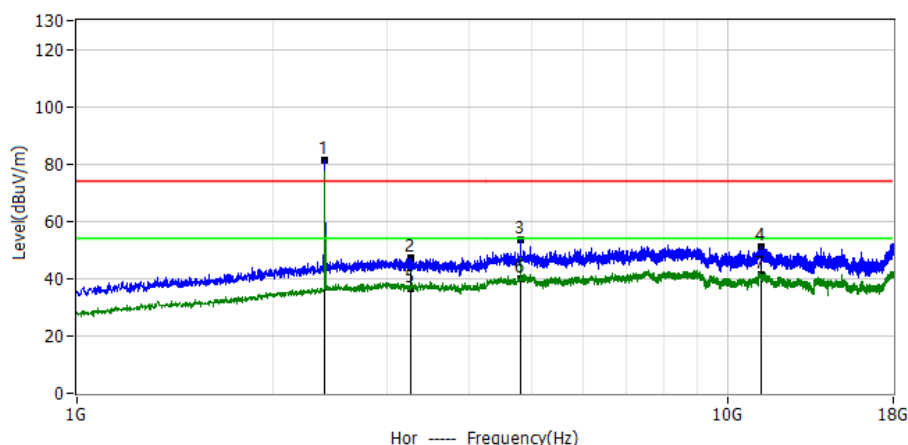


No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	40.306	8.65	20.37	29.02	40.00	-10.98	QP	Ver
2*	57.645	7.04	20.05	27.09	40.00	-12.91	QP	Ver
3*	133.184	7.92	20.90	28.82	43.50	-14.68	QP	Ver
4*	242.430	7.35	19.73	27.08	46.00	-18.92	QP	Ver
5*	466.136	6.48	26.69	33.17	46.00	-12.83	QP	Ver
6*	867.231	5.51	34.04	39.55	46.00	-6.45	QP	Ver

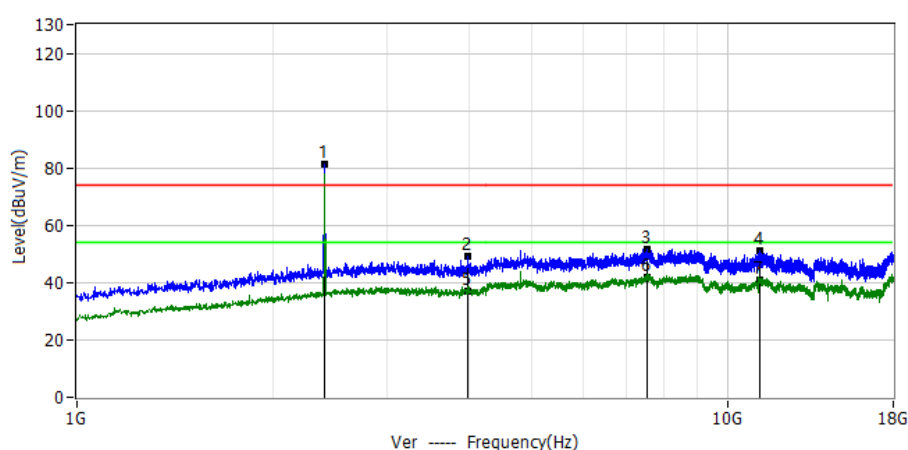


Above 1G Radiation Spurious

Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2402	
Note:	



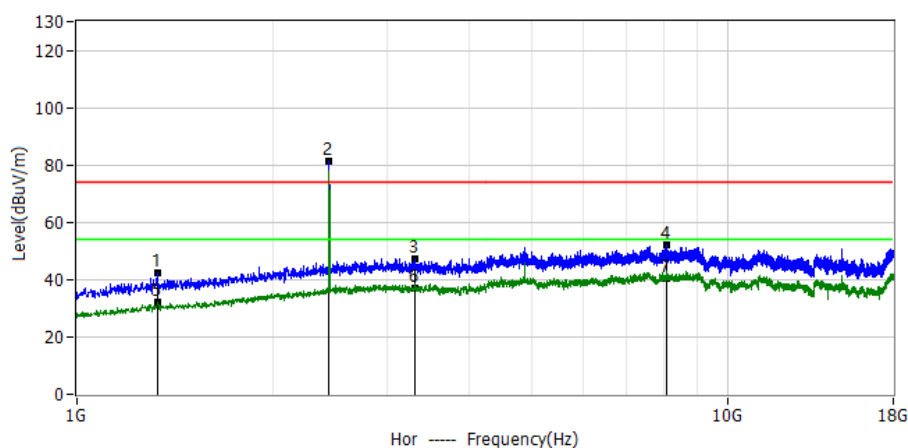
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4025GHz	92.15	-11.05	81.10	74.00	7.10	PK	Hor
2*	3.2610GHz	55.43	-8.22	47.21	74.00	-26.79	PK	Hor
3*	4.8037GHz	59.36	-5.85	53.51	74.00	-20.49	PK	Hor
4*	11.2510GHz	56.01	-5.06	50.95	74.00	-23.05	PK	Hor
5*	3.2610GHz	44.82	-8.22	36.60	54.00	-17.40	AV	Hor
6*	4.8037GHz	45.75	-5.85	39.90	54.00	-14.10	AV	Hor
7*	11.2510GHz	46.26	-5.06	41.20	54.00	-12.80	AV	Hor



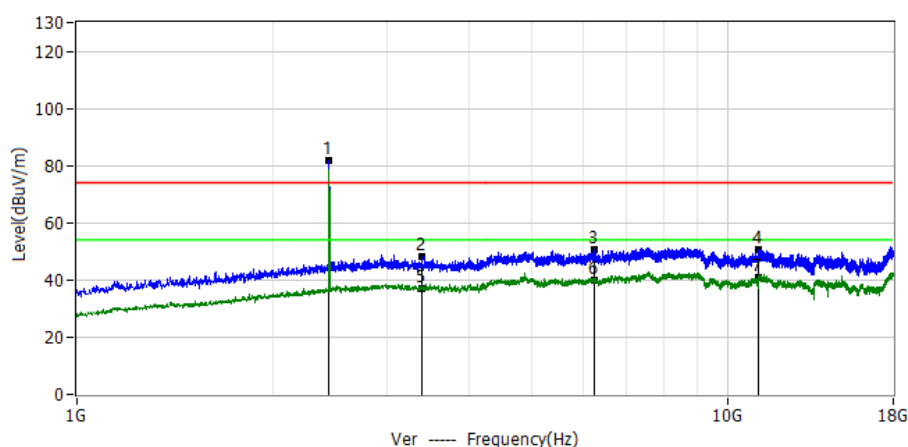
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
!1*	2.4025GHz	92.50	-11.05	81.45	74.00	7.45	PK	Ver
2*	3.9941GHz	56.84	-7.70	49.14	74.00	-24.86	PK	Ver
3*	7.5174GHz	58.86	-7.02	51.84	74.00	-22.16	PK	Ver
4*	11.2064GHz	55.96	-5.06	50.90	74.00	-23.10	PK	Ver
5*	3.9941GHz	44.70	-7.70	37.00	54.00	-17.00	AV	Ver
6*	7.5174GHz	49.02	-7.02	42.00	54.00	-12.00	AV	Ver
7*	11.2064GHz	45.86	-5.06	40.80	54.00	-13.20	AV	Ver



Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2440	
Note:	



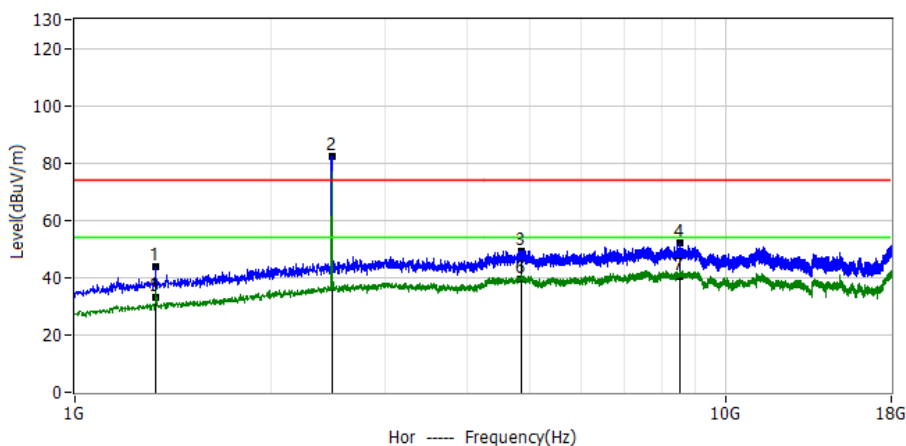
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.3315GHz	64.10	-21.83	42.27	74.00	-31.73	PK	Hor
2*	2.4407GHz	92.17	-10.69	81.48	74.00	7.48	PK	Hor
3*	3.3099GHz	55.52	-8.23	47.29	74.00	-26.71	PK	Hor
4*	8.0699GHz	59.94	-7.91	52.03	74.00	-21.97	PK	Hor
5*	1.3315GHz	54.03	-21.83	32.20	54.00	-21.80	AV	Hor
6*	3.3099GHz	45.23	-8.23	37.00	54.00	-17.00	AV	Hor
7*	8.0699GHz	48.41	-7.91	40.50	54.00	-13.50	AV	Hor



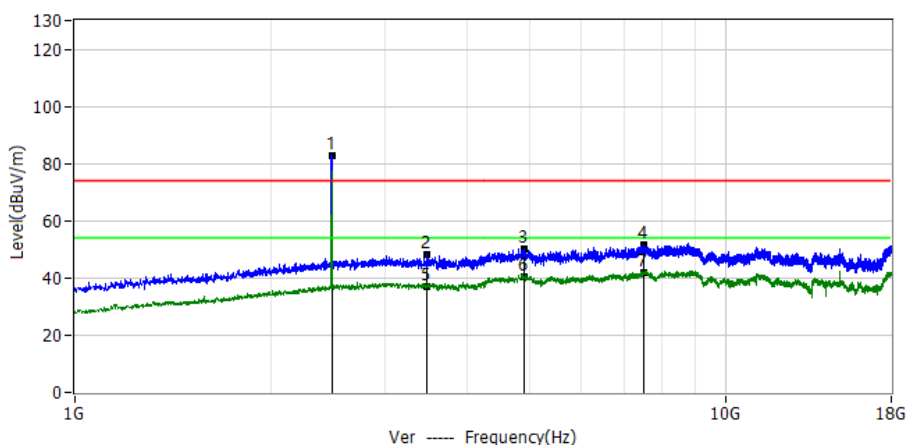
No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4407GHz	92.63	-10.69	81.94	74.00	7.94	PK	Ver
2*	3.3864GHz	56.51	-8.26	48.25	74.00	-25.75	PK	Ver
3*	6.2572GHz	58.56	-7.73	50.83	74.00	-23.17	PK	Ver
4*	11.1596GHz	55.76	-5.07	50.69	74.00	-23.31	PK	Ver
5*	3.3864GHz	45.36	-8.26	37.10	54.00	-16.90	AV	Ver
6*	6.2572GHz	47.73	-7.73	40.00	54.00	-14.00	AV	Ver
7*	11.1596GHz	45.77	-5.07	40.70	54.00	-13.30	AV	Ver



Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.3315GHz	65.77	-21.83	43.94	74.00	-30.06	PK	Hor
2*	2.4811GHz	92.50	-10.32	82.18	74.00	8.18	PK	Hor
3*	4.8590GHz	55.30	-5.89	49.41	74.00	-24.59	PK	Hor
4*	8.5034GHz	59.72	-7.49	52.23	74.00	-21.77	PK	Hor
5*	1.3315GHz	54.73	-21.83	32.90	54.00	-21.10	AV	Hor
6*	4.8590GHz	45.39	-5.89	39.50	54.00	-14.50	AV	Hor
7*	8.5034GHz	47.89	-7.49	40.40	54.00	-13.60	AV	Hor

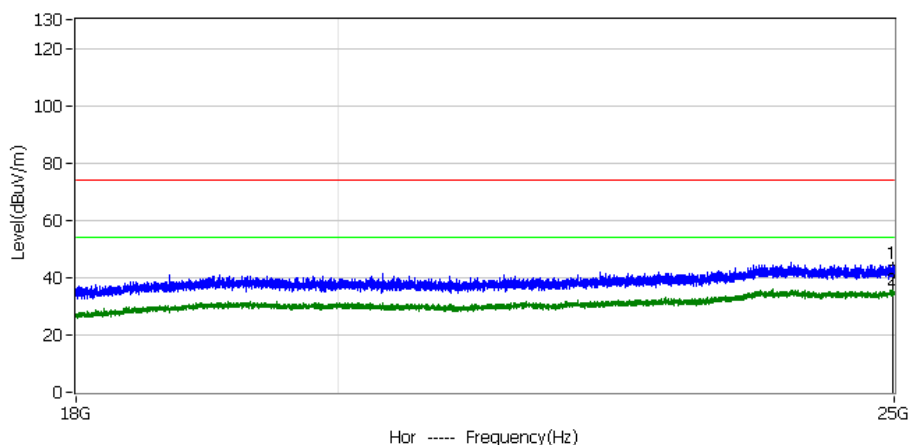


No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2.4811GHz	93.13	-10.32	82.81	74.00	8.81	PK	Ver
2*	3.4841GHz	56.27	-8.30	47.97	74.00	-26.03	PK	Ver
3*	4.9036GHz	56.17	-5.93	50.24	74.00	-23.76	PK	Ver
4*	7.4770GHz	58.78	-7.00	51.78	74.00	-22.22	PK	Ver
5*	3.4841GHz	45.50	-8.30	37.20	54.00	-16.80	AV	Ver
6*	4.9036GHz	46.53	-5.93	40.60	54.00	-13.40	AV	Ver
7*	7.4770GHz	48.80	-7.00	41.80	54.00	-12.20	AV	Ver

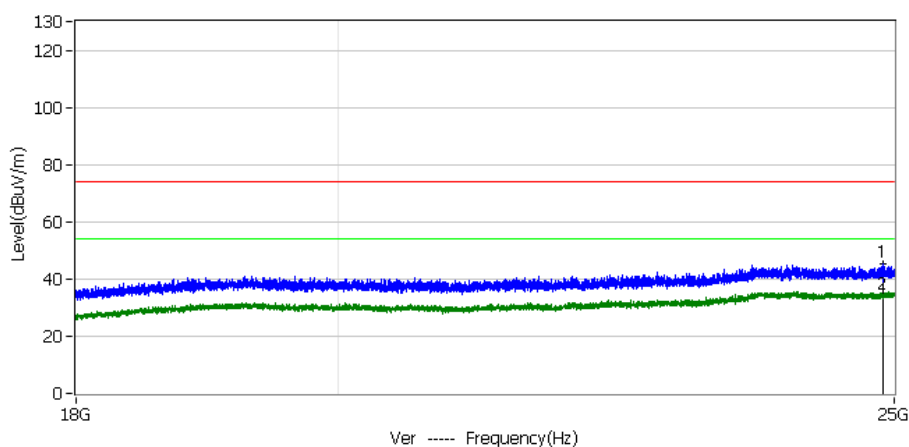


18-25GHz

Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2402	
Note:	



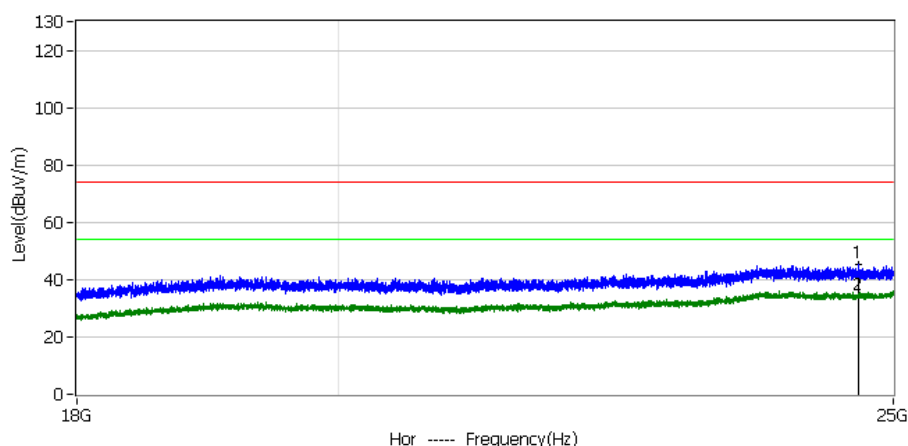
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.985GHz	32.61	11.88	44.49	74.00	-29.51	PK	Hor
2*	24.985GHz	23.12	11.88	35.00	54.00	-19.00	AV	Hor



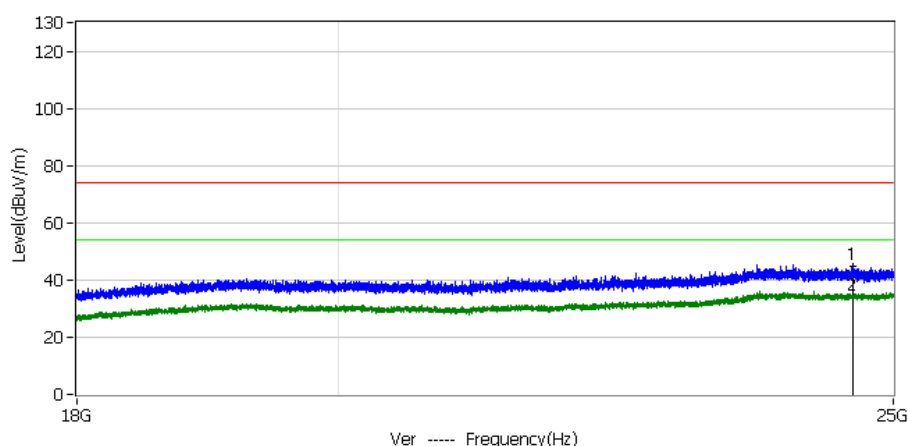
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.883GHz	33.35	11.83	45.18	74.00	-28.82	PK	Ver
2*	24.883GHz	22.17	11.83	34.00	54.00	-20.00	AV	Ver



Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2440	
Note:	



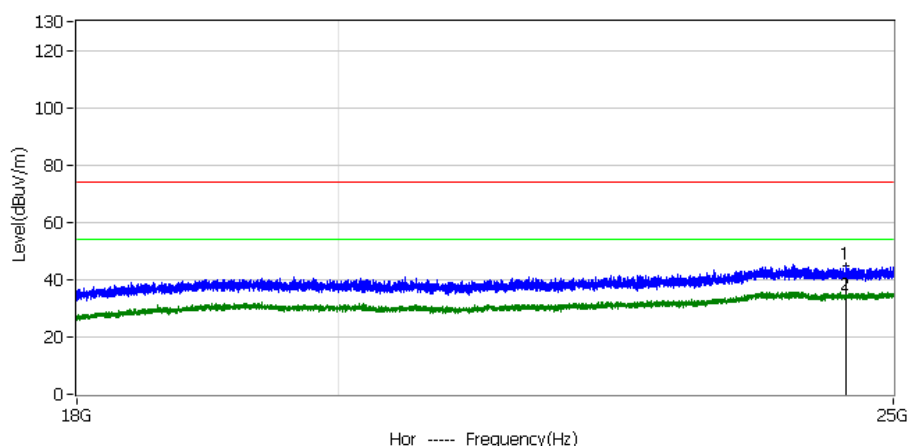
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.649GHz	33.52	11.69	45.21	74.00	-28.79	PK	Hor
2*	24.649GHz	22.21	11.69	33.90	54.00	-20.10	AV	Hor



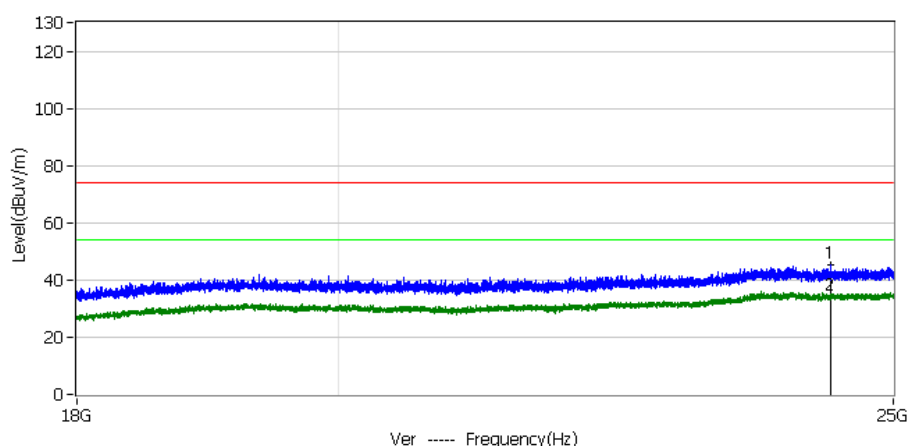
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.596GHz	33.10	11.64	44.74	74.00	-29.26	PK	Ver
2*	24.596GHz	22.26	11.64	33.90	54.00	-20.10	AV	Ver



Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2480	
Note:	



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.527GHz	33.01	11.58	44.59	74.00	-29.41	PK	Hor
2*	24.527GHz	22.42	11.58	34.00	54.00	-20.00	AV	Hor



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	24.373GHz	33.66	11.45	45.11	74.00	-28.89	PK	Ver
2*	24.373GHz	22.75	11.45	34.20	54.00	-19.80	AV	Ver

Note:1.In frequency ranges 18~25GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

Average measurement was not performed if peak level lower than average limit. No any other emissions level which are attenuated less than 20dB below the limit. The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.



Duty Cycle

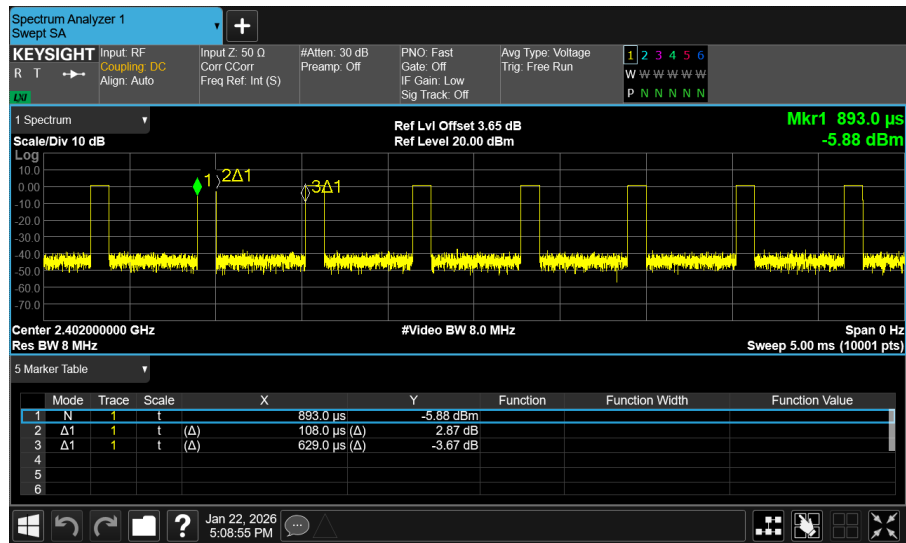
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	2.4G	2402	0.108	0.629	17.17	7.65	9.26
NVNT	2.4G	2440	0.108	0.622	17.36	7.6	9.26
NVNT	2.4G	2480	0.108	0.631	17.12	7.66	9.26

Note: Duty Factor=20*LOG(Ton/Tp)

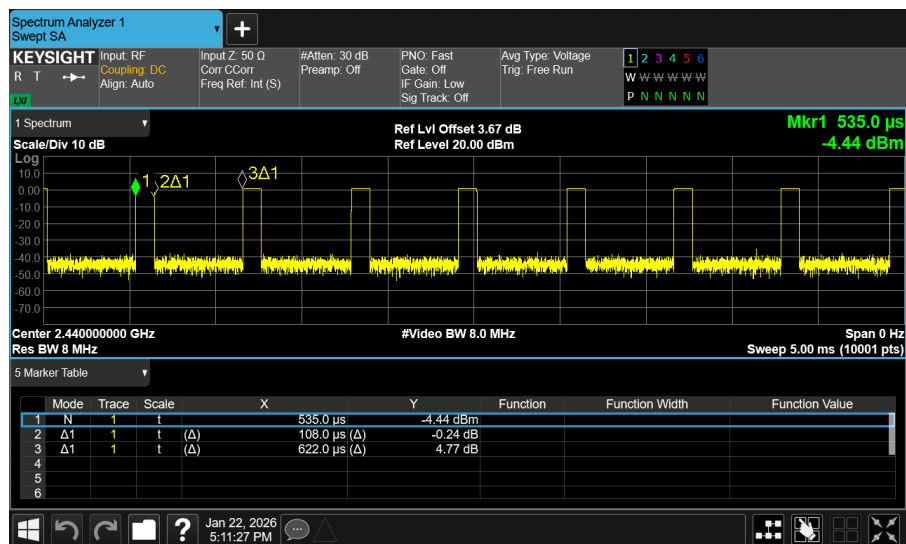


Test Graphs

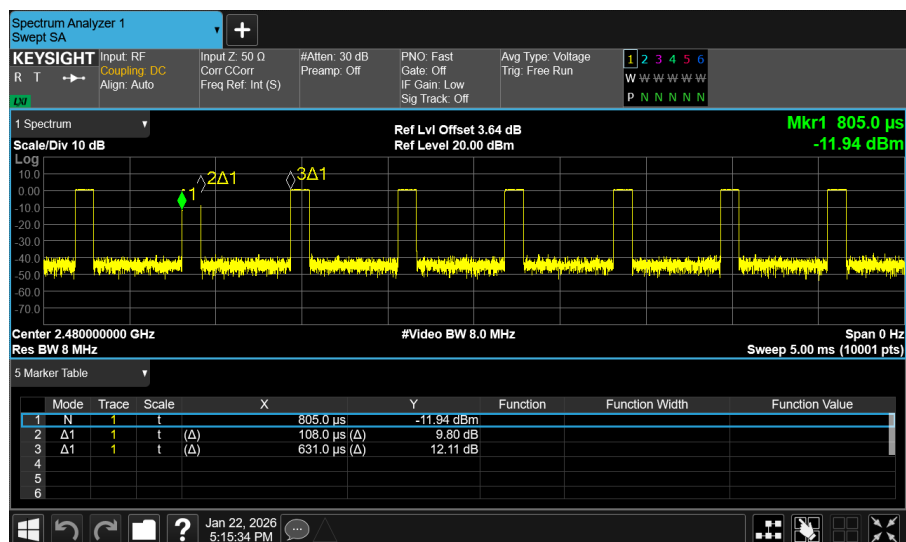
Duty Cycle NVNT 2.4G 2402MHz



Duty Cycle NVNT 2.4G 2440MHz



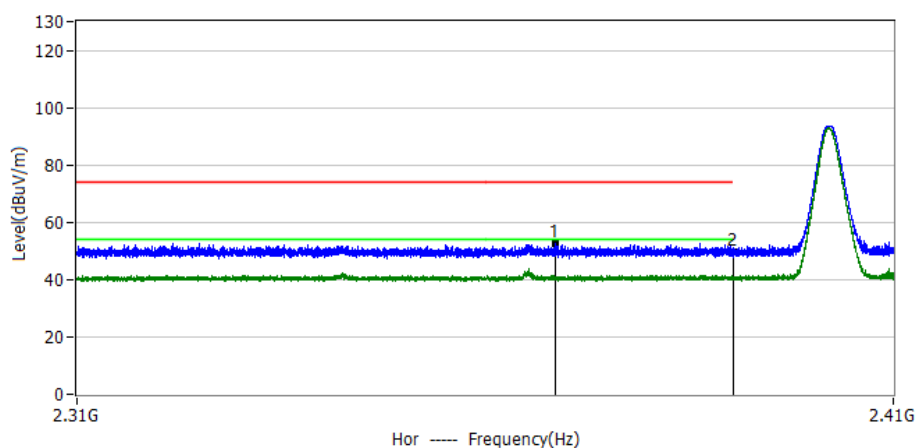
Duty Cycle NVNT 2.4G 2480MHz



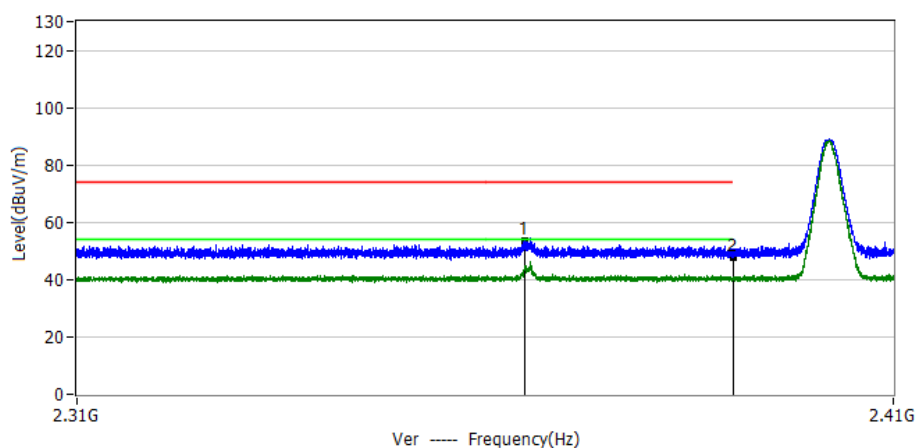


4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2402	
Note:	



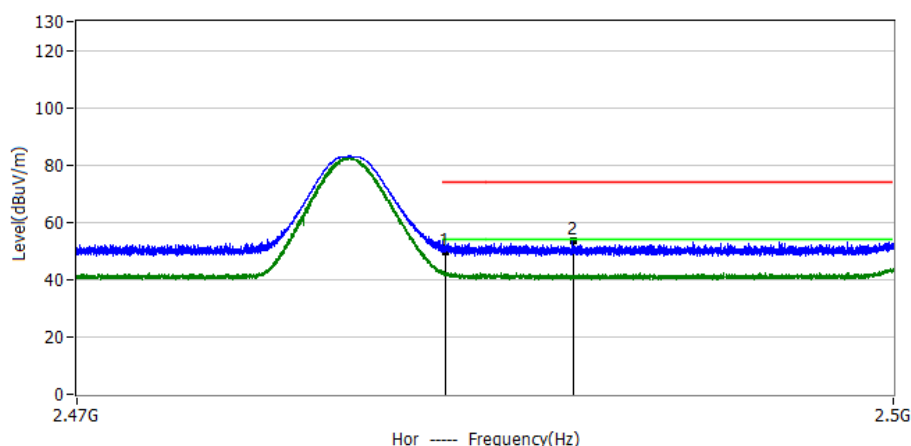
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2368.1000	17.14	35.49	52.63	74.00	-21.37	PK	Hor
2*	2390.0000	14.31	35.59	49.90	74.00	-24.10	PK	Hor



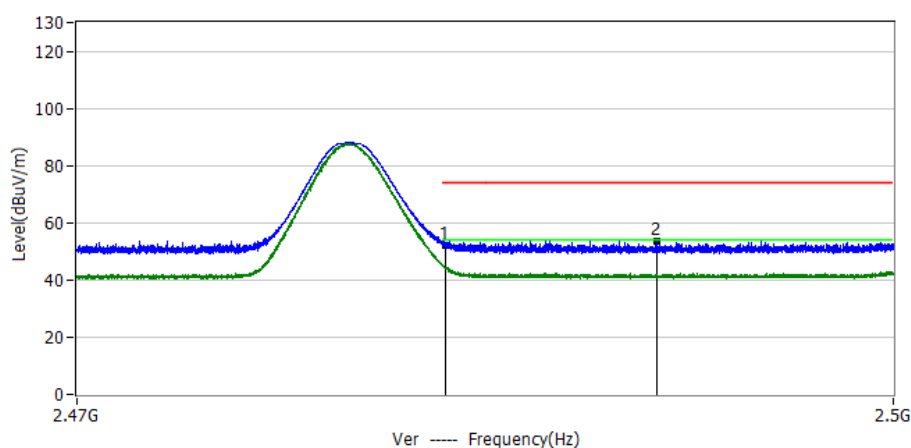
No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2364.3000	17.86	35.48	53.34	74.00	-20.66	PK	Ver
2*	2390.0000	12.31	35.59	47.90	74.00	-26.10	PK	Ver



Project: LGT25L365	Test Engineer: zhangchengxiang
EUT: Wireless Mechanical Keyboard	Temperature: 23.6°C
M/N: Node75-LP	Humidity: 48%RH
Test Voltage: Battery 3.7V	Test Data: 2026-01-16
Test Mode: 2480	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	13.72	35.98	49.70	74.00	-24.30	PK	Hor
2*	2488.2000	17.49	36.00	53.49	74.00	-20.51	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	2483.5000	16.32	35.98	52.30	74.00	-21.70	PK	Ver
2*	2491.3000	17.75	36.02	53.77	74.00	-20.23	PK	Ver



4.8 TEST RESULTS (EIRP REQUIREMENTS)

Frequency (MHz)	Meter Reading (dBμV/m)	Detector	Orrected Factor (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polar
2402.00	59.94	PK	34.19	94.13	114.00	-19.87	H
2402.00	59.56	PK	34.19	93.75	114.00	-20.25	V
2440.00	59.35	PK	34.31	93.66	114.00	-20.34	H
2440.00	59.97	PK	34.31	94.28	114.00	-19.72	V
2480.00	60.93	PK	34.42	95.35	114.00	-18.65	H
2480.00	58.95	PK	34.42	93.37	114.00	-20.63	V

Frequency (MHz)	PK Reading (dBμV/m)	Duty cycle factor (dB)	AV Reading (dBμV/m)	Orrected Factor (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polar
2402.00	59.94	-15.21	44.74	34.19	78.93	94.00	-15.07	H
2402.00	59.56	-15.21	44.35	34.19	78.54	94.00	-15.46	V
2440.00	59.35	-15.21	44.14	34.31	78.45	94.00	-15.55	H
2440.00	59.97	-15.21	44.77	34.31	79.08	94.00	-14.92	V
2480.00	60.93	-15.21	45.73	34.42	80.15	94.00	-13.85	H
2480.00	58.95	-15.21	43.74	34.42	78.16	94.00	-15.84	V

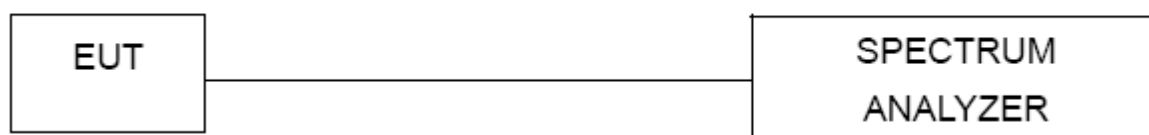


5. BANDWIDTH TEST

5.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting : RBW= 30KHz, VBW $\geq$ RBW, Sweep time = Auto.

5.2 TEST SETUP



5.3 EUT OPERATION CONDITIONS

TX mode.

5.4 TEST RESULTS

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2402	1.059	Pass
NVNT	2.4G	2440	1.107	Pass
NVNT	2.4G	2480	1.097	Pass

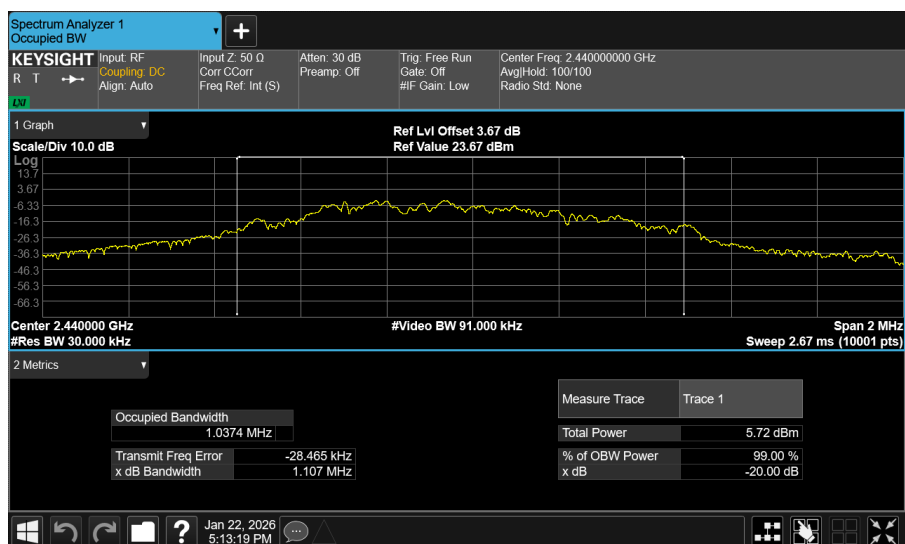


Test Graphs

-20dB Bandwidth NVNT 2.4G 2402MHz



-20dB Bandwidth NVNT 2.4G 2440MHz



-20dB Bandwidth NVNT 2.4G 2480MHz





6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

6.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



APPENDIX I - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID.

※※※※※END OF THE REPORT※※※※※