



Report No.:

TW2109102E

File reference No.:

2021-09-23

Applicant:

NINGBO SC-STARMAX IMP. & EXP. CO., LTD.

Product:

Desk Lamp with BT Speaker

Model No.:

99707

Trademark:

N/A

Test Standards:

FCC Part 15.247

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated:

September 23, 2021

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## Test Report Conclusion

### Content

<b>1.0</b>	<b>General Details</b>	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	4
1.6	Test Uncertainty	4
1.7	Test By	5
<b>2.0</b>	<b>List of Measurement Equipment</b>	6
<b>3.0</b>	<b>Technical Details</b>	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
<b>4.0</b>	<b>EUT Modification</b>	7
<b>5.0</b>	<b>Power Line Conducted Emission Test</b>	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
<b>5.4</b>	<b>EUT Operating Condition</b>	9
<b>5.5</b>	<b>Conducted Emission Limit</b>	9
<b>5.6</b>	<b>Test Result</b>	9
<b>6.0</b>	<b>Radiated Emission test</b>	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	14
7.0	20dB Bandwidth	26
8.0	Maximum Output Power	34
9.0	Carrier Frequency Separation	36
10.0	Number of Hopping Channel	39
11.0	Time of Occupancy (Dwell Time)	42
12.0	Out of Band Measurement	62
13.0	Antenna Requirement	64
14.0	FCC ID Label	65
15.0	Photo of Test Setup and EUT View	66

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: NINGBO SC-STARMAX IMP. & EXP. CO., LTD.  
Address: Room 513, Floor 5, Building 3, No.1377, Jiulan Road, High-tech Zone, Ningbo  
Telephone: 0574-27651231  
Fax: --

### 1.3 Description of EUT

Product: Desk Lamp with BT Speaker  
Manufacturer: NINGBO SC-STARMAX IMP. & EXP. CO., LTD.  
Address: Room 513, Floor 5, Building 3, No.1377, Jiulan Road, High-tech Zone, Ningbo  
Trademark: N/A  
Model Number: 99707  
Additional Model Number: N/A  
Type of Modulation GFSK,  $\pi/4$ DQPSK for Bluetooth  
Frequency range 2402-2480MHz for Bluetooth  
Channel Spacing 1MHz for Bluetooth  
Frequency Selection By software  
Channel Number 79 channels for Bluetooth  
Antenna: PCB Antenna. The gain of the antennas is -0.58dBi (Declared by the applicant)  
Input Voltage: DC5.0V, 2A  
Hardware Version: V1.0  
Software Version: V1.0

### 1.4 Submitted Sample: 2 Samples

### 1.5 Test Duration

2021-09-08 to 2021-09-22

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

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Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2022-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-06-18	2022-06-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-06	2022-01-05
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	Pass	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	Pass	Complies
Carrier Frequency Separation	15.247(a)(1)	Pass	Complies
20dB Channel Bandwidth	15.247 (a)(1)	Pass	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	Pass	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	Pass	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d), 15.205(a), 15.209 (a), 15.109	Pass	Complies
Conducted Emissions	15.207(a), 15.107	Pass	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	Pass	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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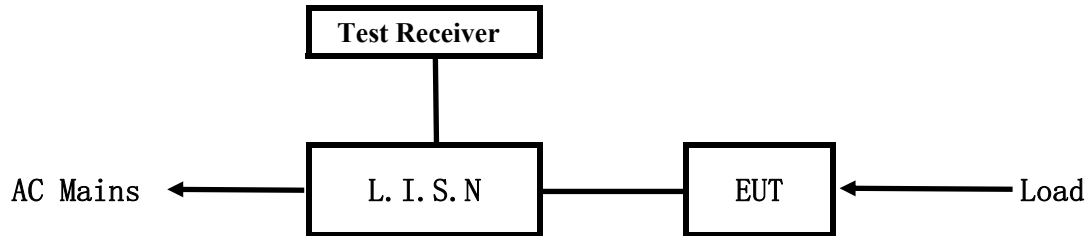
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test



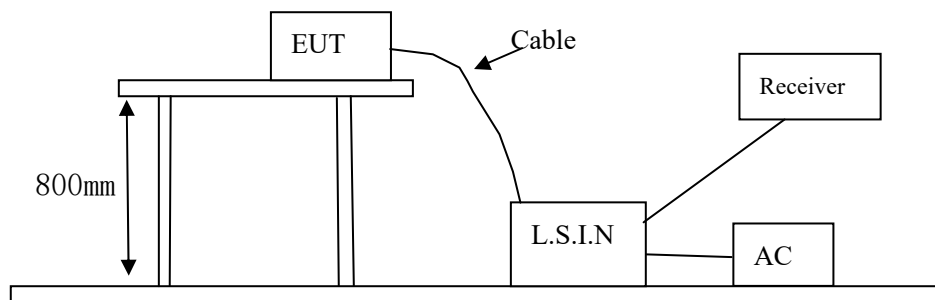
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~ 60Hz

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

Device	Manufacturer	Model	FCC ID
Desk Lamp with BT Speaker	NINGBO SC-STARMAX IMP. & EXP. CO., LTD.	99707	2A2WN-99707

B. Internal Device

Device	Manufacturer	Model	Rating
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Chenyang	UP0920	Input: 100-240V~, 50-60Hz, 0.5A; Output: DC5V or DC9V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

Pass

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

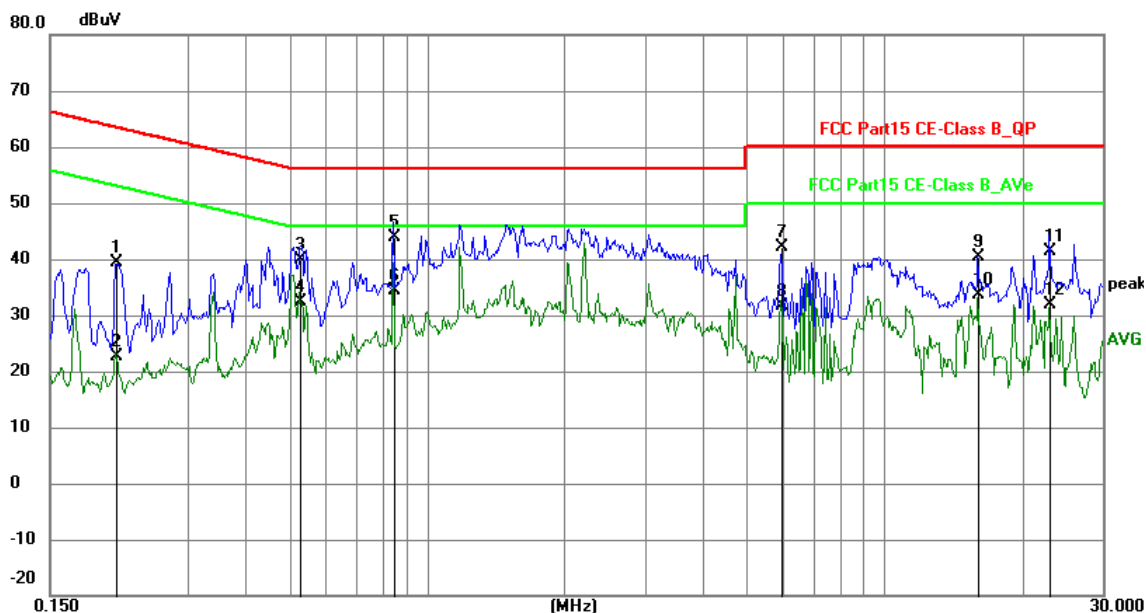
**EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2085	29.68	9.75	39.43	63.26	-23.83	QP	P
2	0.2085	12.89	9.75	22.64	53.26	-30.62	AVG	P
3	0.5293	30.16	9.77	39.93	56.00	-16.07	QP	P
4	0.5293	22.64	9.77	32.41	46.00	-13.59	AVG	P
5	0.8481	34.12	9.78	43.90	56.00	-12.10	QP	P
6	0.8481	24.49	9.78	34.27	46.00	-11.73	AVG	P
7	5.9484	32.16	9.97	42.13	60.00	-17.87	QP	P
8	5.9484	21.70	9.97	31.67	50.00	-18.33	AVG	P
9	15.9714	29.98	10.44	40.42	60.00	-19.58	QP	P
10	15.9714	23.13	10.44	33.57	50.00	-16.43	AVG	P
11	22.9368	30.54	10.86	41.40	60.00	-18.60	QP	P
12	22.9368	21.05	10.86	31.91	50.00	-18.09	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

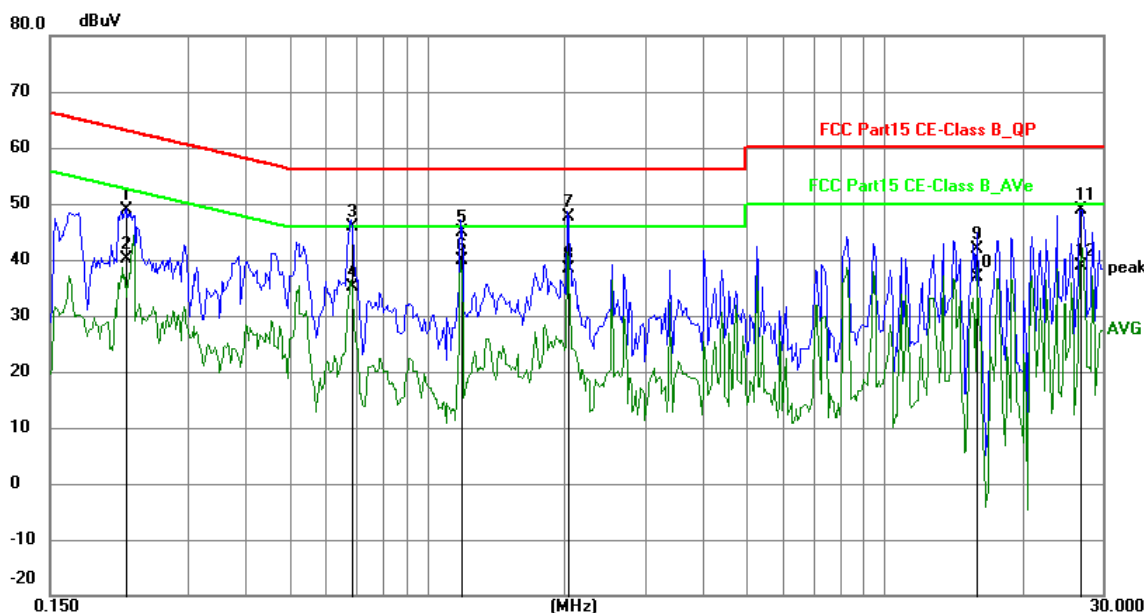
**EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2208	39.17	9.75	48.92	62.79	-13.87	QP	P
2	0.2208	30.44	9.75	40.19	52.79	-12.60	AVG	P
3	0.6843	36.15	9.78	45.93	56.00	-10.07	QP	P
4	0.6843	25.28	9.78	35.06	46.00	-10.94	AVG	P
5	1.1873	35.16	9.79	44.95	56.00	-11.05	QP	P
6	1.1873	30.15	9.79	39.94	46.00	-6.06	AVG	P
7	2.0298	37.84	9.80	47.64	56.00	-8.36	QP	P
8	2.0298	28.65	9.80	38.45	46.00	-7.55	AVG	P
9	15.9597	31.54	10.44	41.98	60.00	-18.02	QP	P
10	15.9597	26.48	10.44	36.92	50.00	-13.08	AVG	P
11	26.8290	37.68	11.10	48.78	60.00	-11.22	QP	P
12	26.8290	27.90	11.10	39.00	50.00	-11.00	AVG	P

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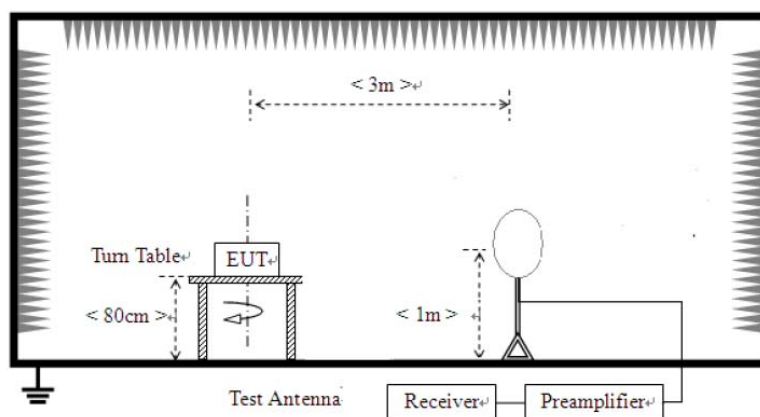
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



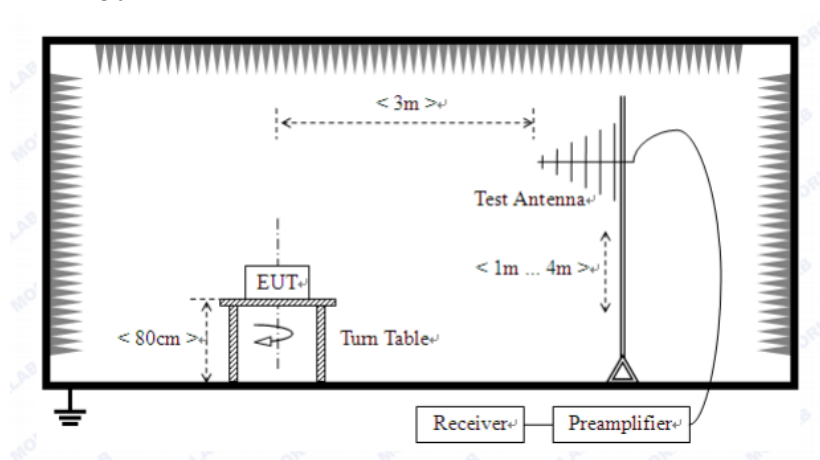
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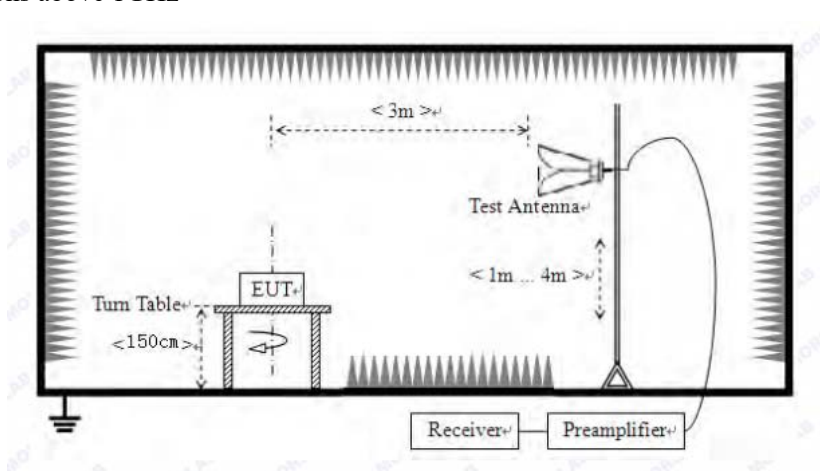
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT  
Same as section 5.3 of this report

6.3 EUT Operating Condition  
Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage ( $\mu$ V)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4.  $\pi$ /4DQPSK was the worst case because it has highest output power

The report refers only to the sample tested and does not apply to the bulk.

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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)**

EUT set Condition:      Keep Bluetooth Transmitting

**Results:**                      **Pass**

The report refers only to the sample tested and does not apply to the bulk.

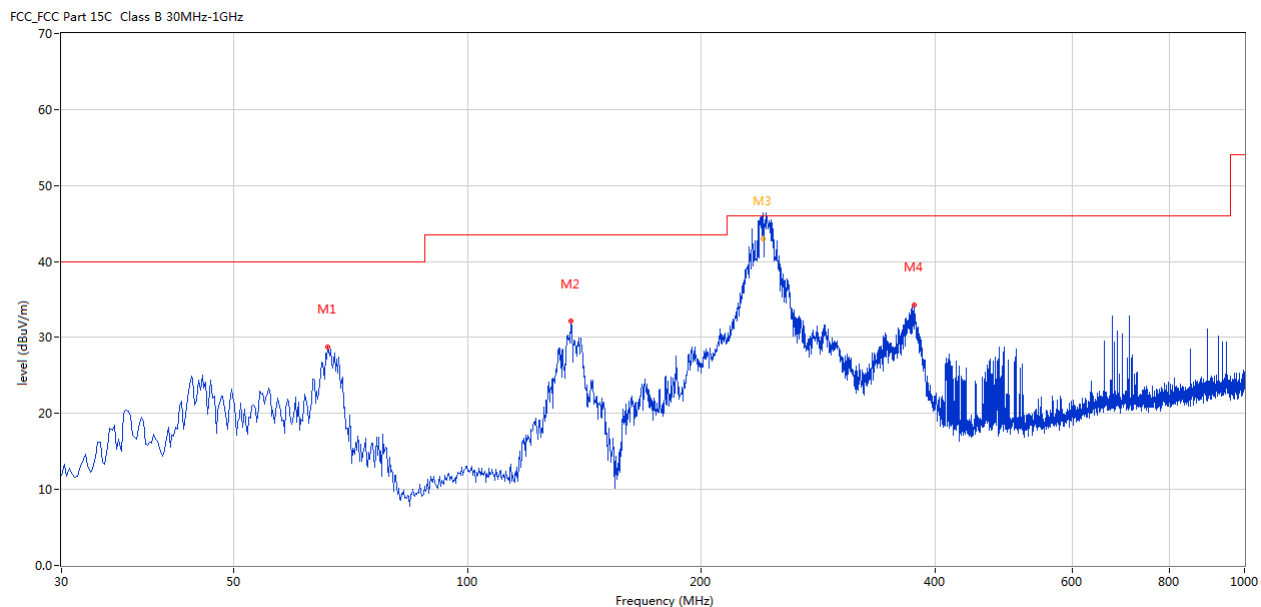
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	66.123	28.80	-13.97	40.0	-11.20	Peak	324.00	100	Horizontal	Pass
2	135.704	32.11	-17.16	43.5	-11.39	Peak	328.00	100	Horizontal	Pass
3	240.195	43.03	-12.33	46.0	0.03	Peak	150.00	100	Horizontal	N/A
3*	240.195	42.99	-12.33	46.0	-3.01	QP	150.00	100	Horizontal	Pass
4	375.234	34.31	-9.42	46.0	-11.69	Peak	293.00	100	Horizontal	Pass

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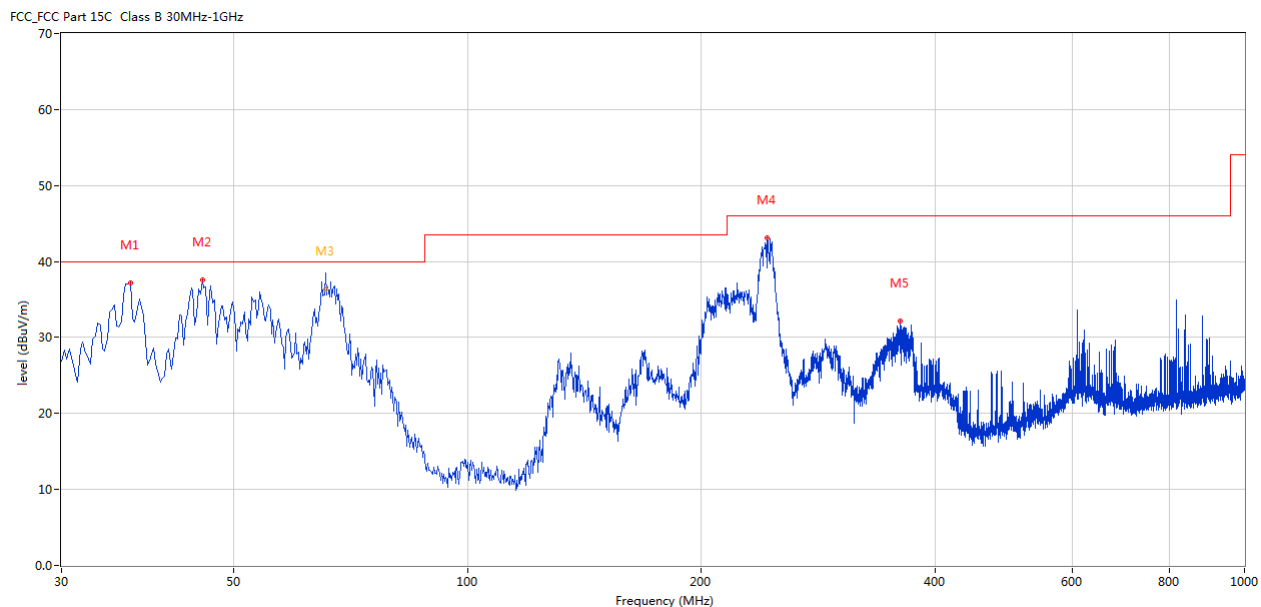
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	36.788	37.17	-13.31	40.0	-2.83	Peak	77.00	100	Vertical	Pass
2	45.516	37.56	-11.39	40.0	-2.44	Peak	92.00	100	Vertical	Pass
3	65.639	38.50	-13.79	40.0	-1.50	Peak	101.00	100	Vertical	Pass
3*	65.639	36.33	-13.79	40.0	-3.67	QP	101.00	100	Vertical	Pass
4	243.104	43.05	-12.19	46.0	-2.95	Peak	39.00	100	Vertical	Pass
5	360.687	32.19	-9.51	46.0	-13.81	Peak	5.00	100	Vertical	Pass

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**Operation Mode: Transmitting under Low Channel (2402MHz)**

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4804	--	H	74(Peak)/ 54(AV)
4804	--	V	74(Peak)/ 54(AV)
7206	--	H/V	74(Peak)/ 54(AV)
9608	--	H/V	74(Peak)/ 54(AV)
12010	--	H/V	74(Peak)/ 54(AV)
14412	--	H/V	74(Peak)/ 54(AV)
16814	--	H/V	74(Peak)/ 54(AV)
19216	--	H/V	74(Peak)/ 54(AV)
21618	--	H/V	74(Peak)/ 54(AV)
24020	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured

**Operation Mode: Transmitting g under Middle Channel (2441MHz)**

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4882	--	H	74(Peak)/ 54(AV)
4882	--	V	74(Peak)/ 54(AV)
7323	--	H/V	74(Peak)/ 54(AV)
9764	--	H/V	74(Peak)/ 54(AV)
12205	--	H/V	74(Peak)/ 54(AV)
14646	--	H/V	74(Peak)/ 54( V)
17087	--	H/V	74(Peak)/ 54(AV)
19528	--	H/V	74(Peak)/ 54(AV)
21969	--	H/V	74(Peak)/ 54(AV)
24410	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
2. Remark "---" means that the emissions level is too low to be measured

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**Operation Mode: Transmitting under High Channel (2480MHz)**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4960	--	H	74(Peak)/ 54(AV)
4960	--	V	74(Peak)/ 54(AV)
7440	--	H/V	74(Peak)/ 54(AV)
9920	--	H/V	74(Peak)/ 54(AV)
12400	--	H/V	74(Peak)/ 54(AV)
14880	--	H/V	74(Peak)/ 54(AV)
17360	--	H/V	74(Peak)/ 54(AV)
19840	--	H/V	74(Peak)/ 54(AV)
22320	--	H/V	74(Peak)/ 54(AV)
24800	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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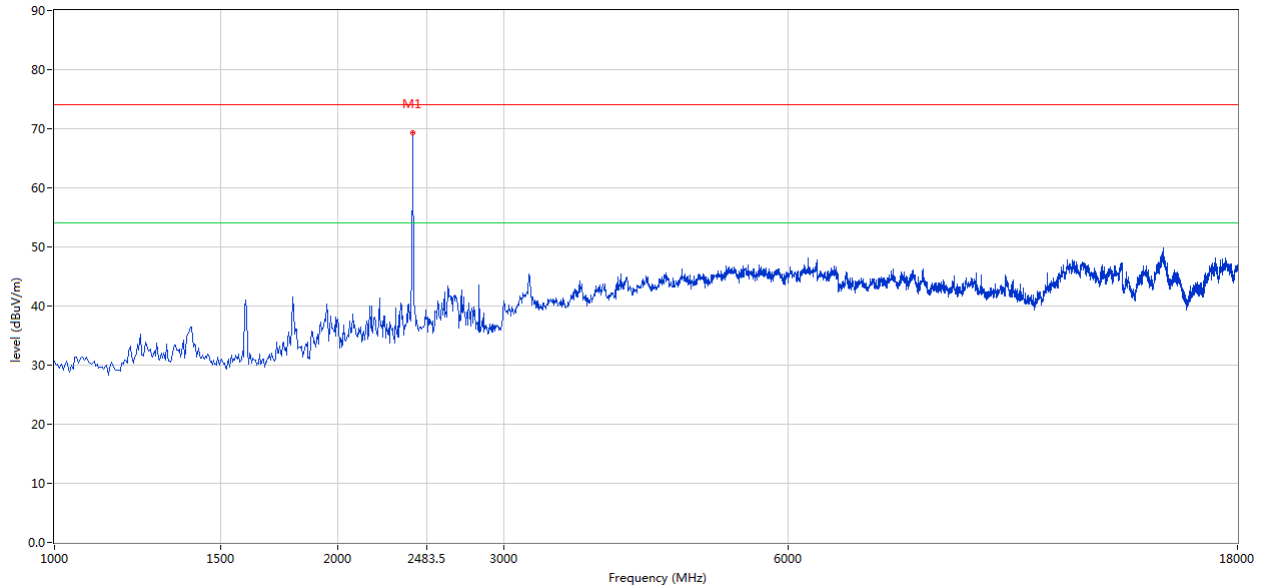
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Please refer to the following test plots for details:

**Low Channel: Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



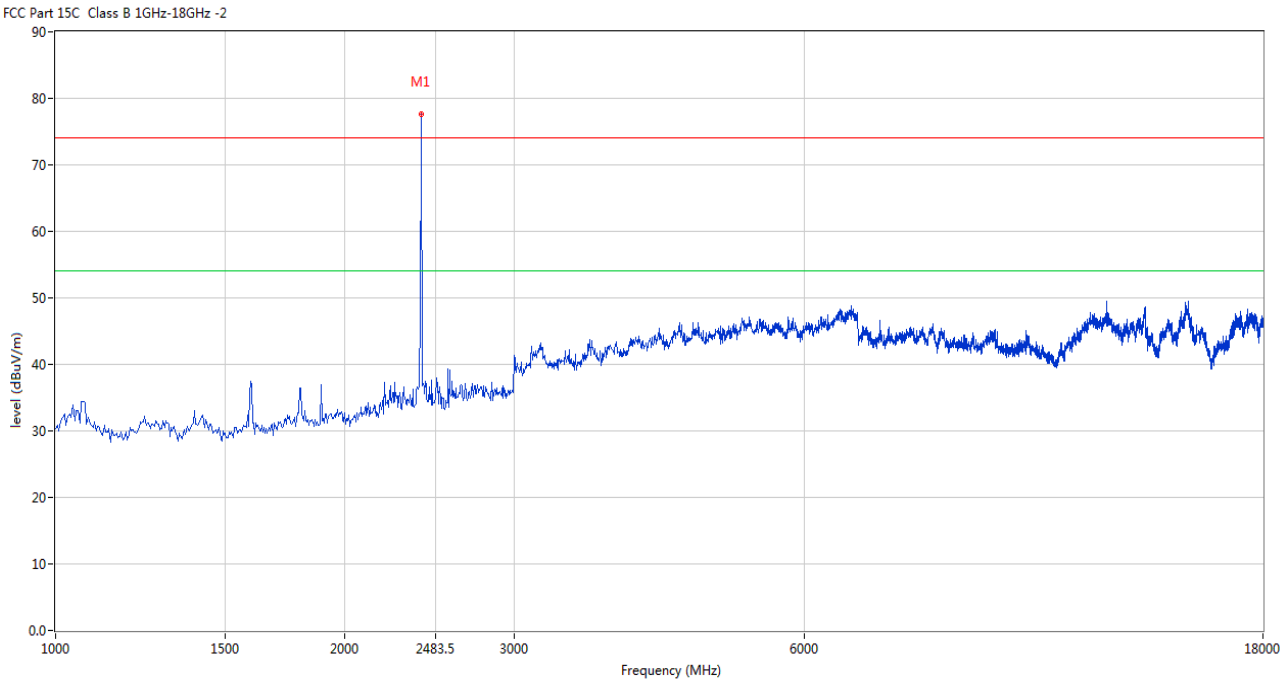
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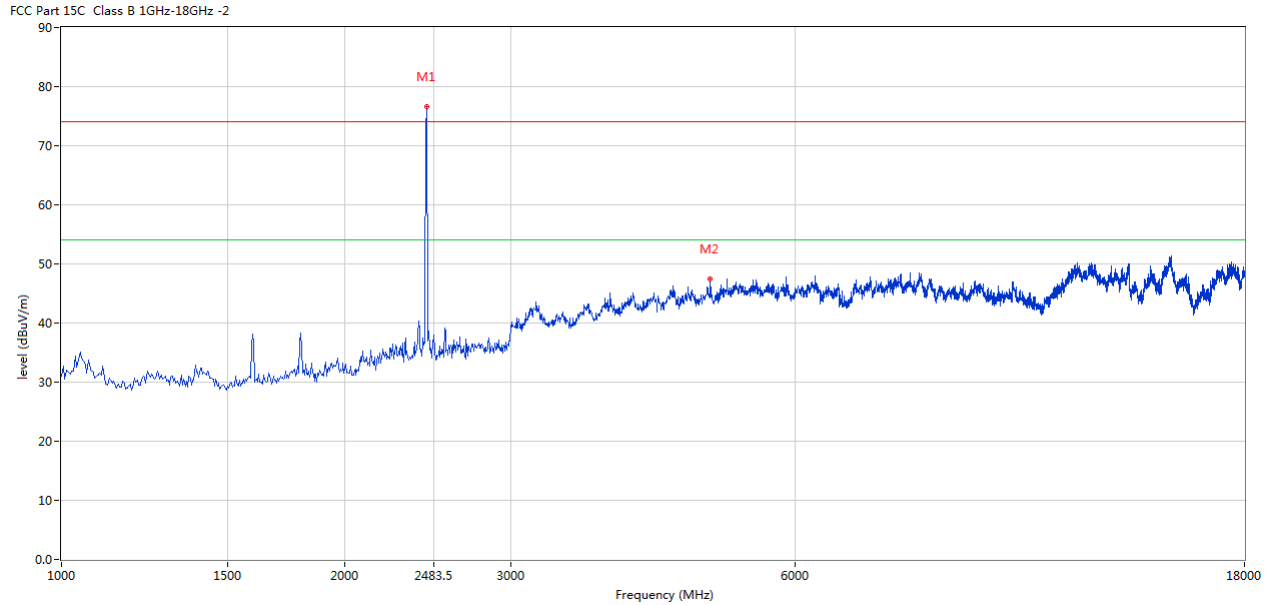
Low Channel : Horizontal



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### Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4880.250	47.50	3.20	74.0	-26.50	Peak	360.00	100	Horizontal	Pass

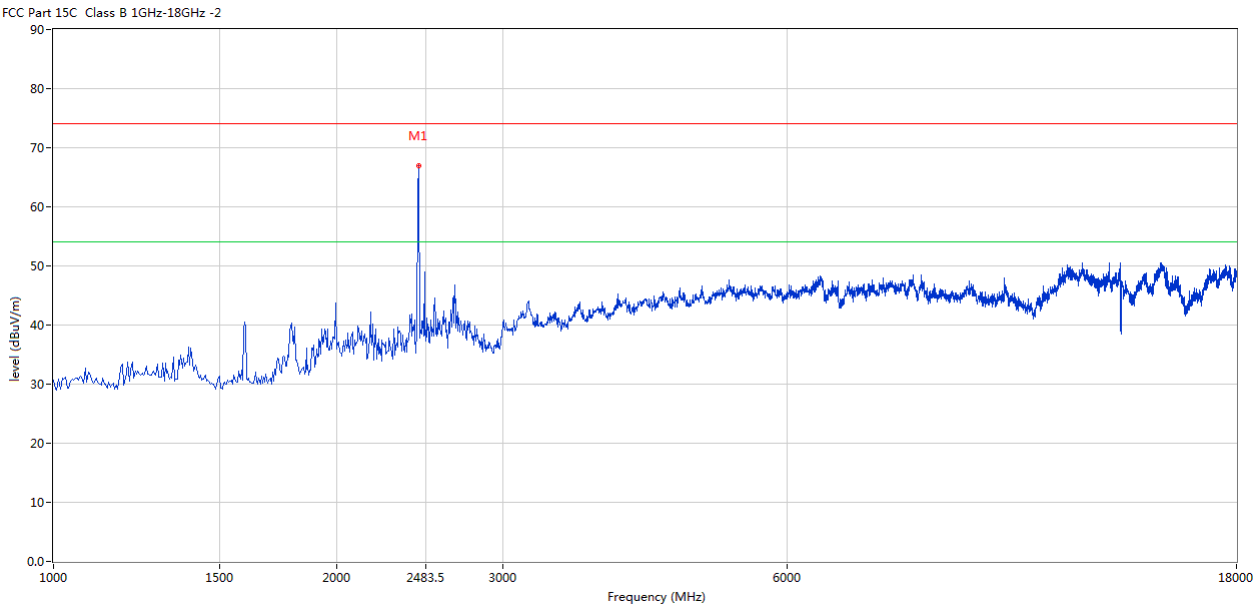
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Middle Channel: Vertical

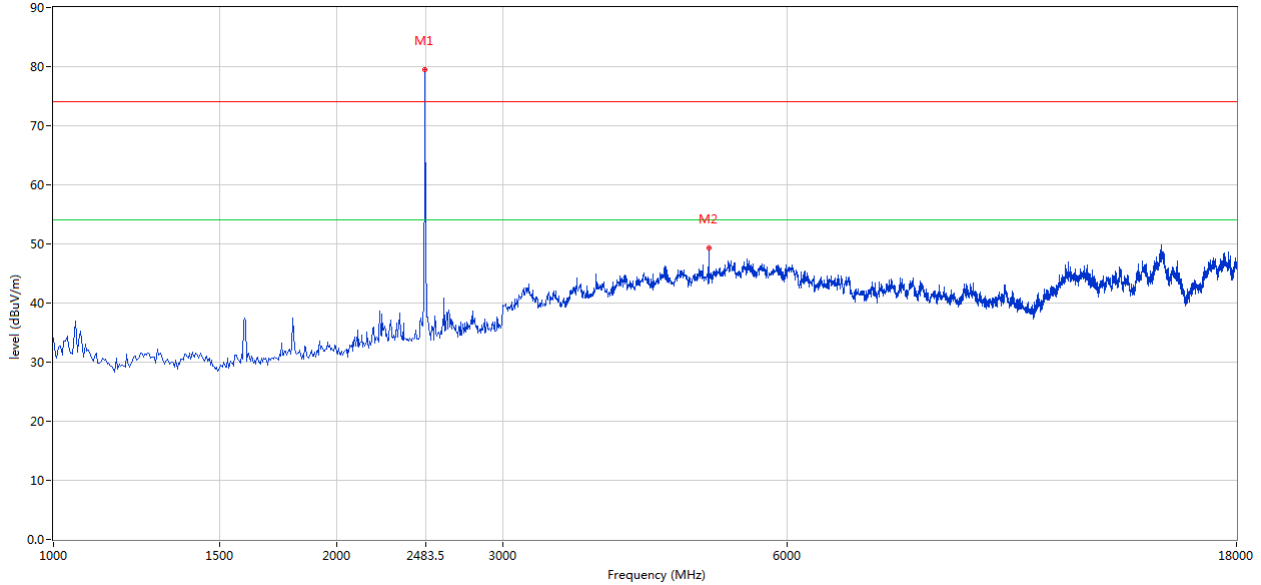


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## High Channel: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	4961.000	49.25	3.36	74.0	-24.75	Peak	3.00	100	Horizontal	Pass

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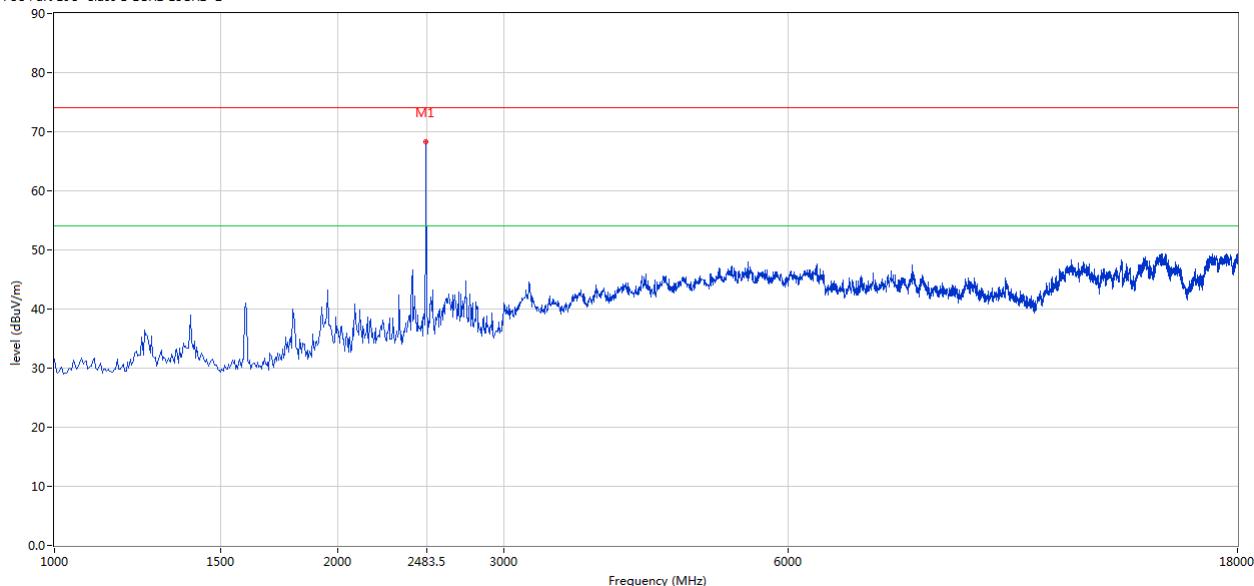
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## High Channel: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



**Note: 1. for the radiated emissions above 18G and below 30MHz, it is the floor noise.**

**2. the measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result**

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## 7.0 20dB Bandwidth Measurement

### 7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

### 7.2 Limits of 20dB Bandwidth Measurement

N/A

### 7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = 3MHz, RBW = 30 kHz, VBW = 100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

### 7.4 Test Result

#### Type of Modulation: GFSK

EUT	Desk Lamp with BT Speaker		Model	99707
Mode	Keep Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	842	--	Pass
Middle	2441	842	--	Pass
High	2480	848	--	Pass

The report refers only to the sample tested and does not apply to the bulk.

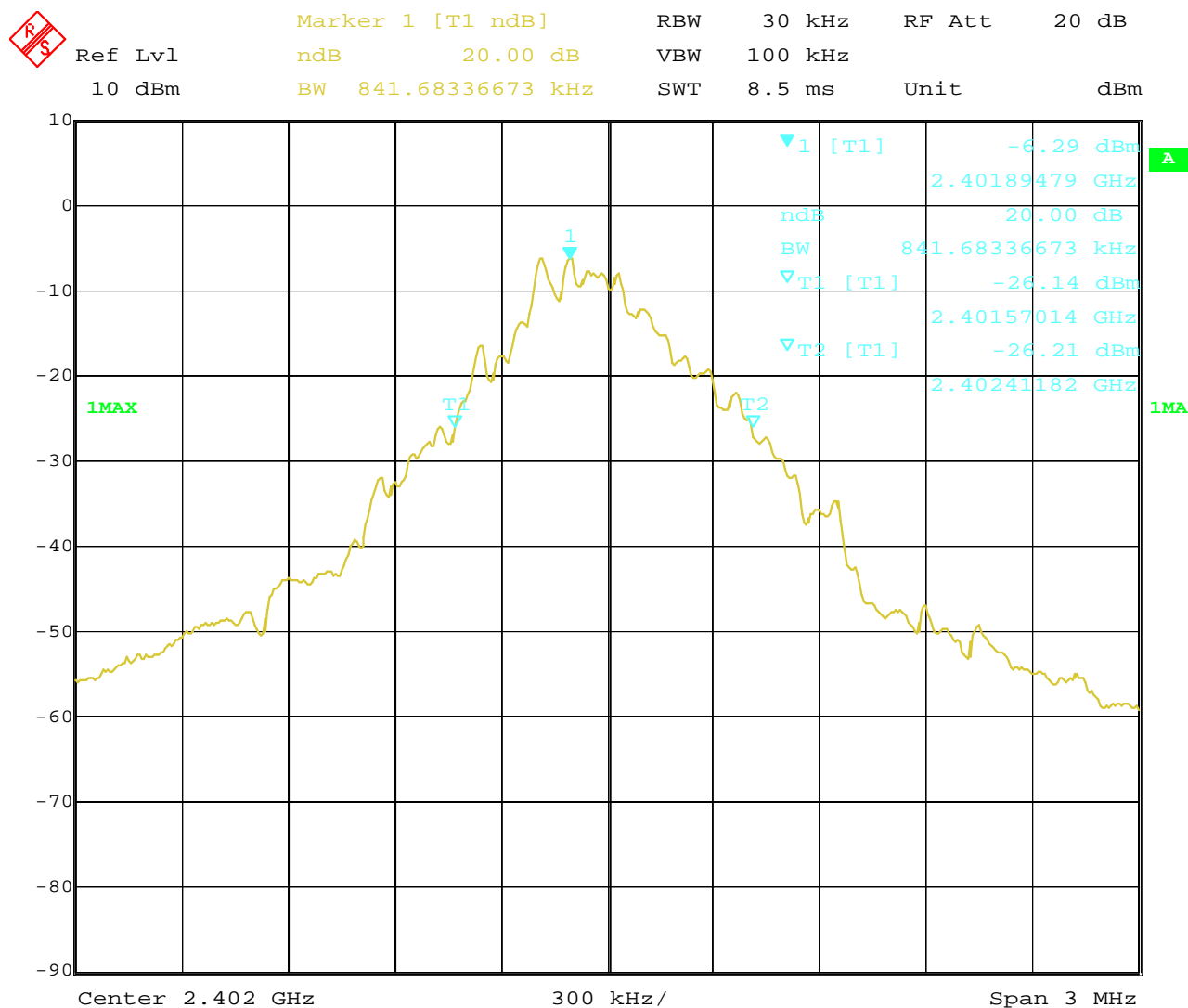
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Test Figure:

1. Condition: Low Channel



Date: 13.SEP.2021 10:07:19

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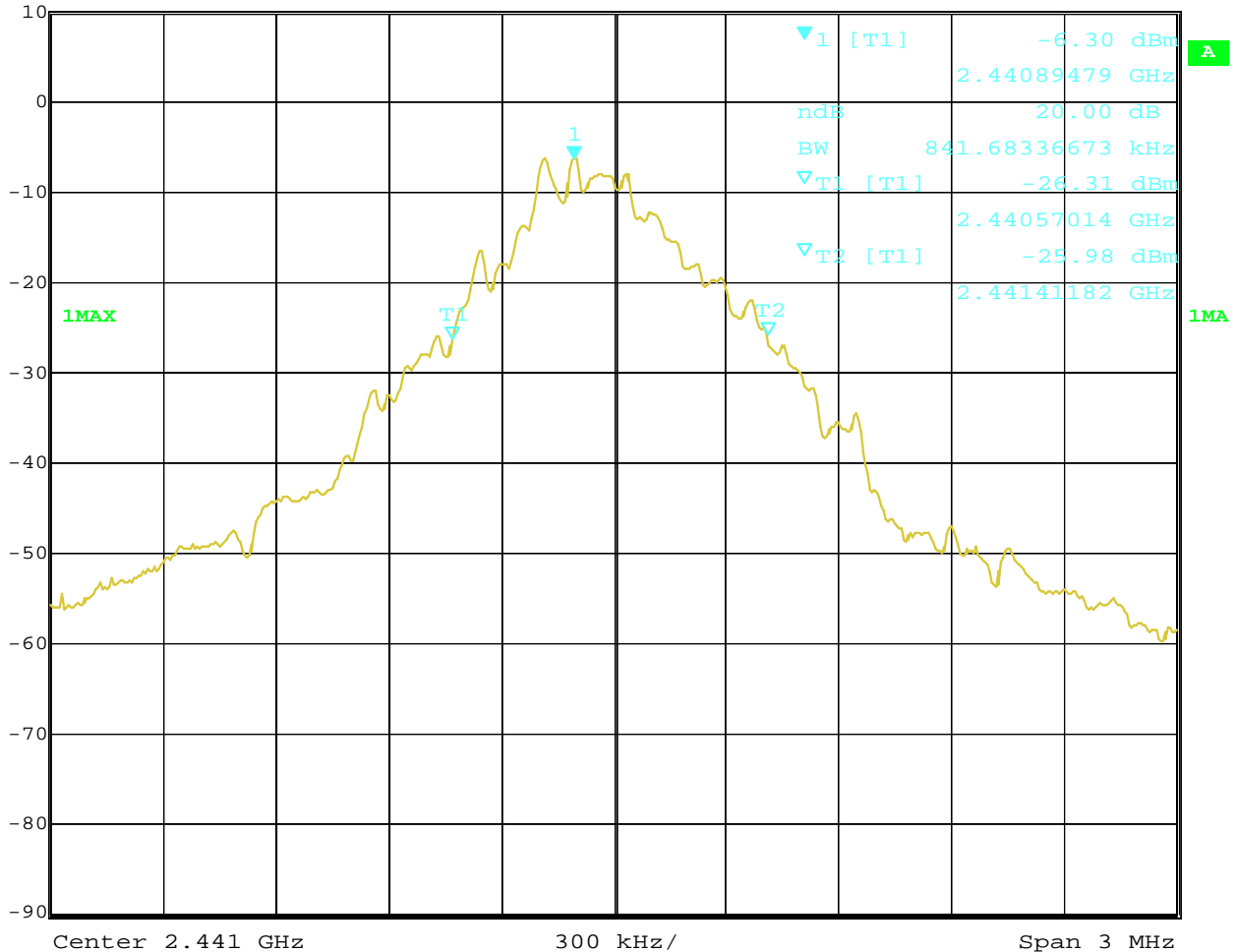
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## 2. Condition: Middle Channel



Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	20 dB
10 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 841.68336673 kHz	SWT	8.5 ms	Unit	dBm



Date: 13.SEP.2021 10:10:18

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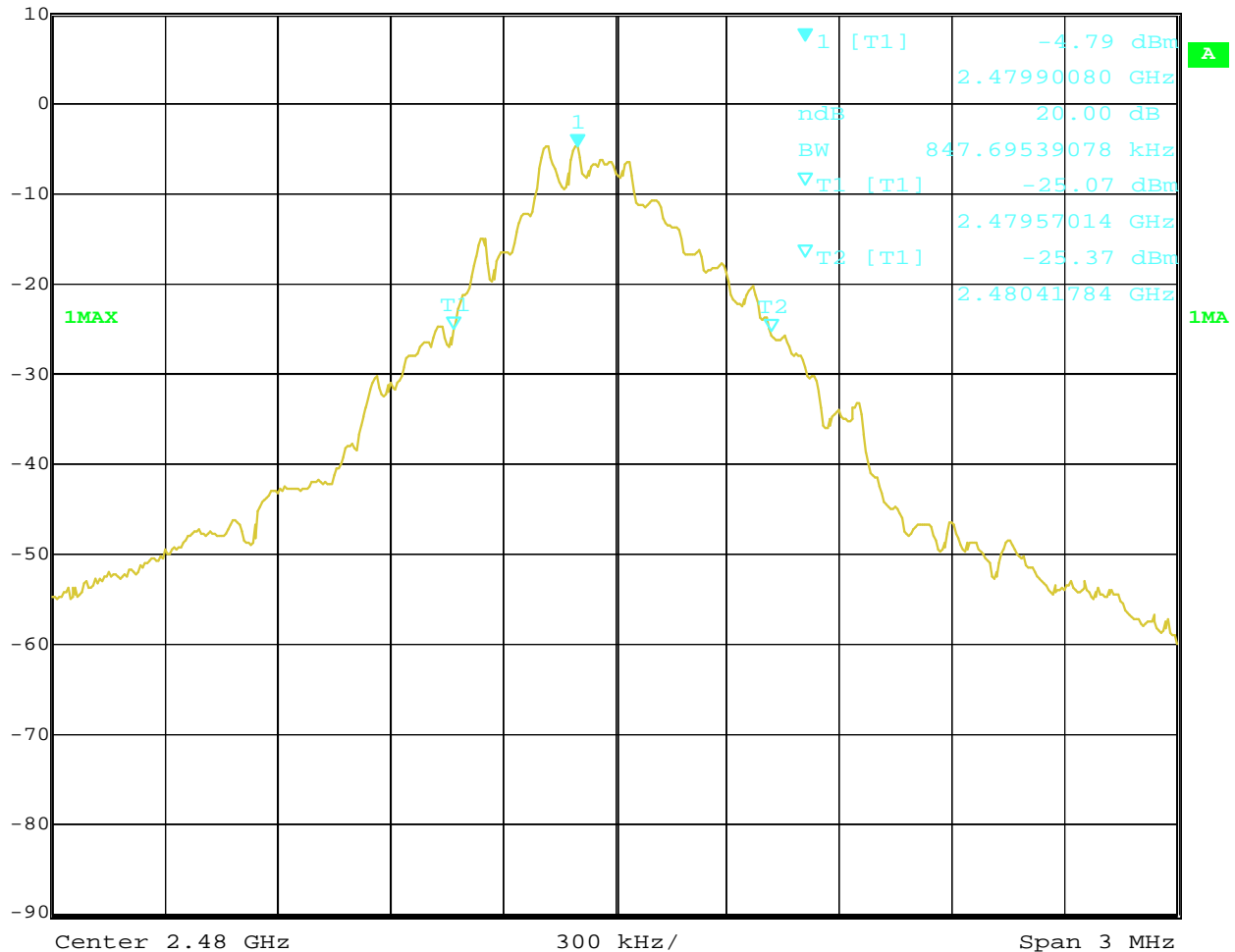
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### 3. High Channel



Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 dB  
Ref Lvl ndB 20.00 dB VBW 100 kHz  
10 dBm BW 847.69539078 kHz SWT 8.5 ms Unit dBm



Date: 13.SEP.2021 10:11:05

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## Test Result

Type of Modulation:  $\pi/4$ DQPSK

EUT	Desk Lamp with BT Speaker		Model	99707
Mode	Keep Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1287	--	Pass
Middle	2441	1281	--	Pass
High	2480	1281	--	Pass

The report refers only to the sample tested and does not apply to the bulk.

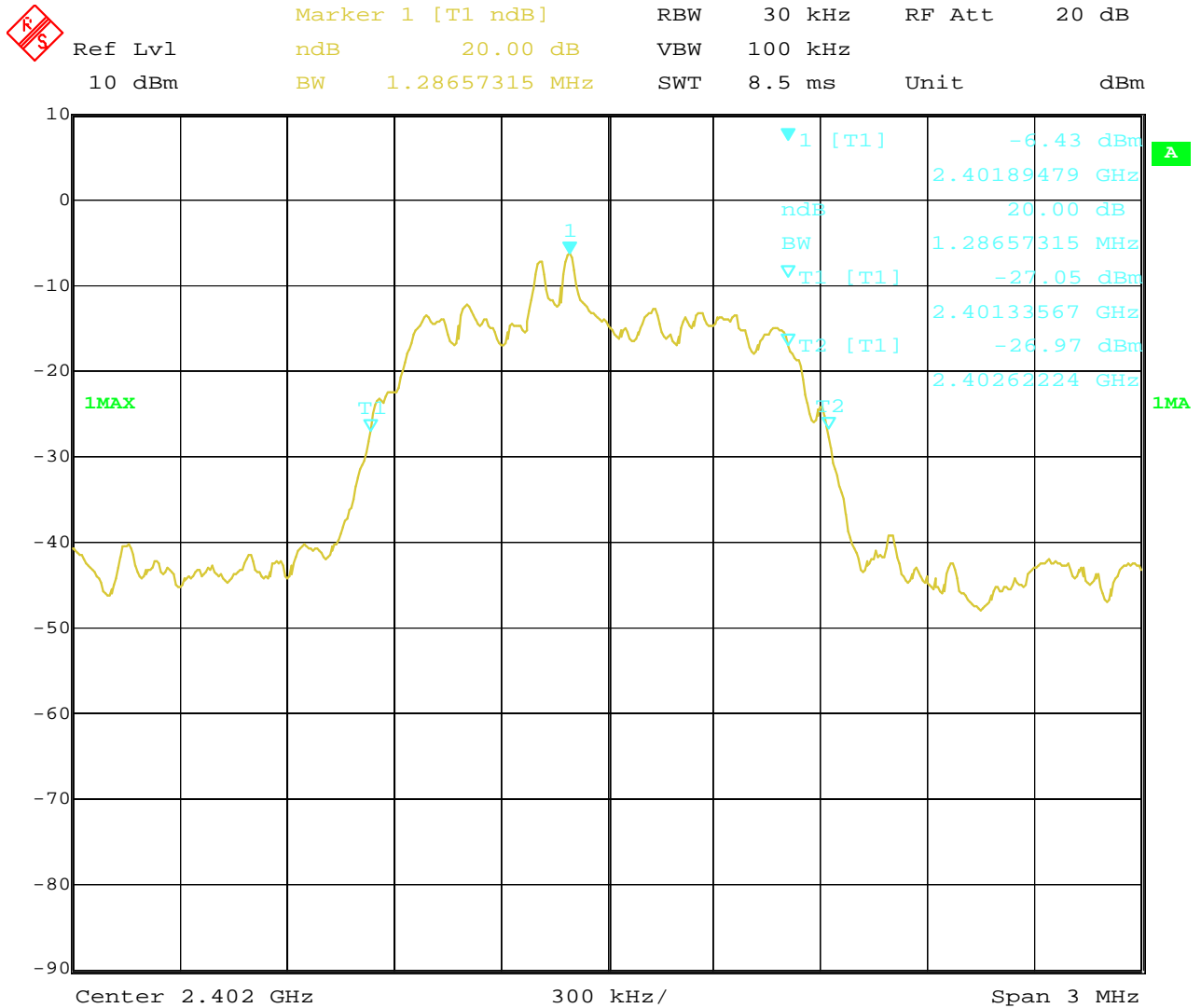
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Test Figure:

1. Condition: Low Channel



Date: 13.SEP.2021 10:15:15

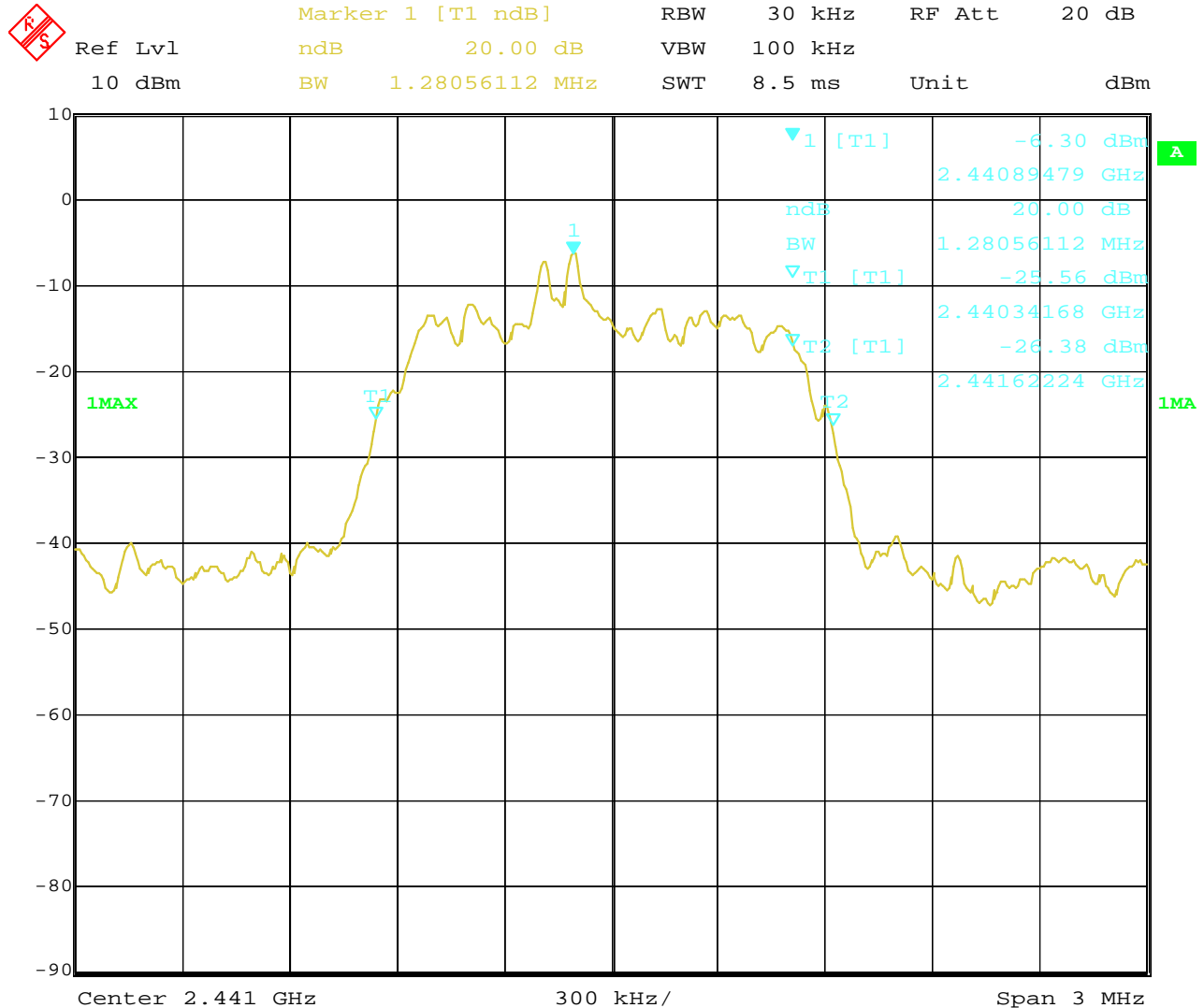
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## 2. Condition: Middle Channel



Date: 13.SEP.2021 10:14:36

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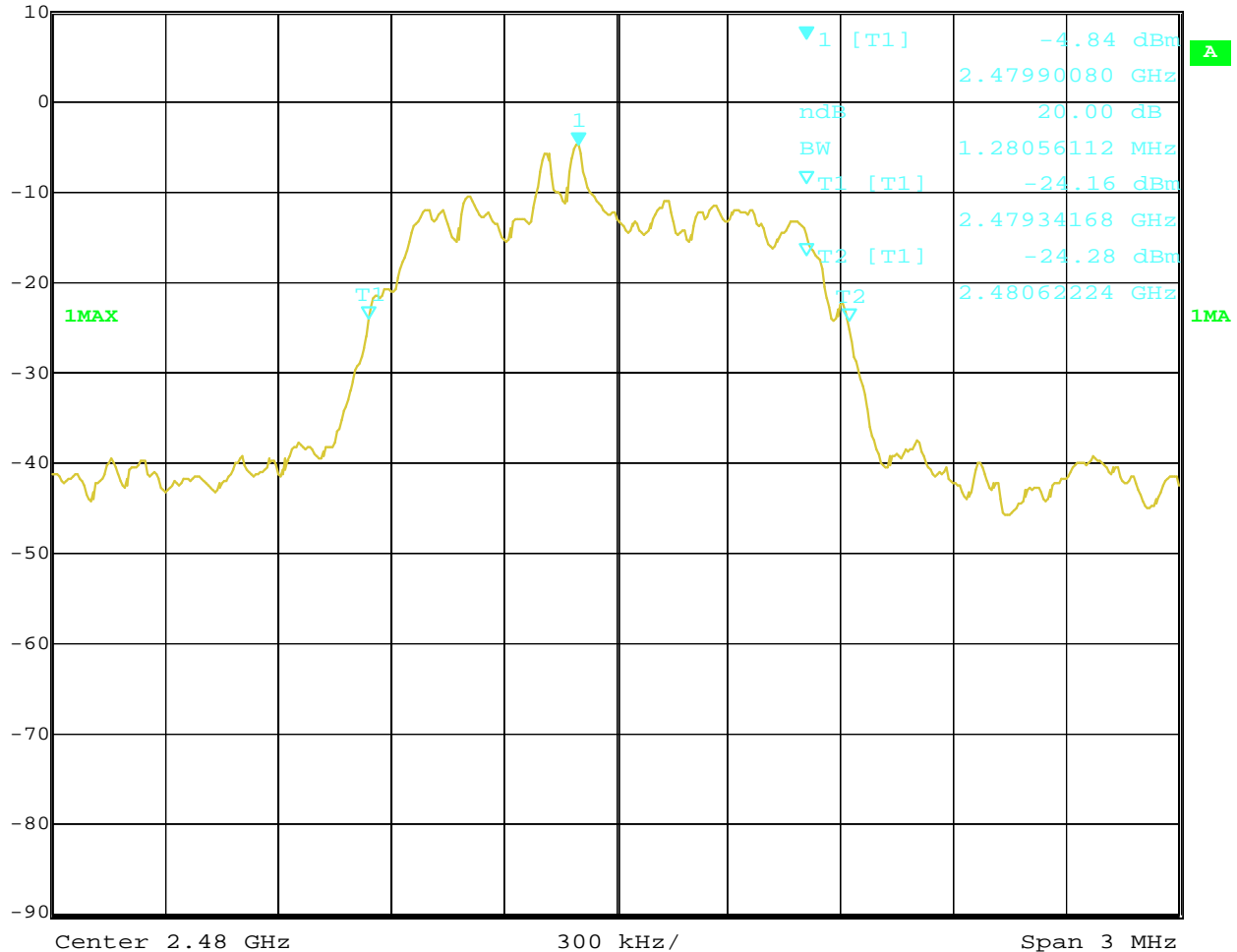




### 3. High Channel



Ref Lvl	Marker 1 [T1 ndB]	RBW	30 kHz	RF Att	20 dB
10 dBm	ndB 20.00 dB	VBW	100 kHz		
	BW 1.28056112 MHz	SWT	8.5 ms	Unit	dBm



Date: 13.SEP.2021 10:13:16

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## **8. Maximum Output Power**

### **8.1 Regulation**

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **8.2 Limits of Maximum Output Power**

The Maximum Output Power Measurement is 30dBm.

### **8.3 Test Procedure**

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

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## 8.4 Test Results

### Type of Modulation: GFSK

EUT	Desk Lamp with BT Speaker		Model	99707
Mode	Keep Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	-5.35	30	Pass
Middle	2441	-5.58	30	Pass
High	2480	-3.98	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

### Type of Modulation: 16QAM

EUT	Desk Lamp with BT Speaker		Model	99707
Mode	Keep Transmitting		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	-1.87	30	Pass
Middle	2441	-1.74	30	Pass
High	2480	-0.20	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

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## **9. Carrier Frequency Separation**

### **9.1 Regulation**

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### **9.2 Limits of Carrier Frequency Separation**

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

### **9.3 Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW)  $\geq$  1% of the span; Video (or Average) Bandwidth (VBW)  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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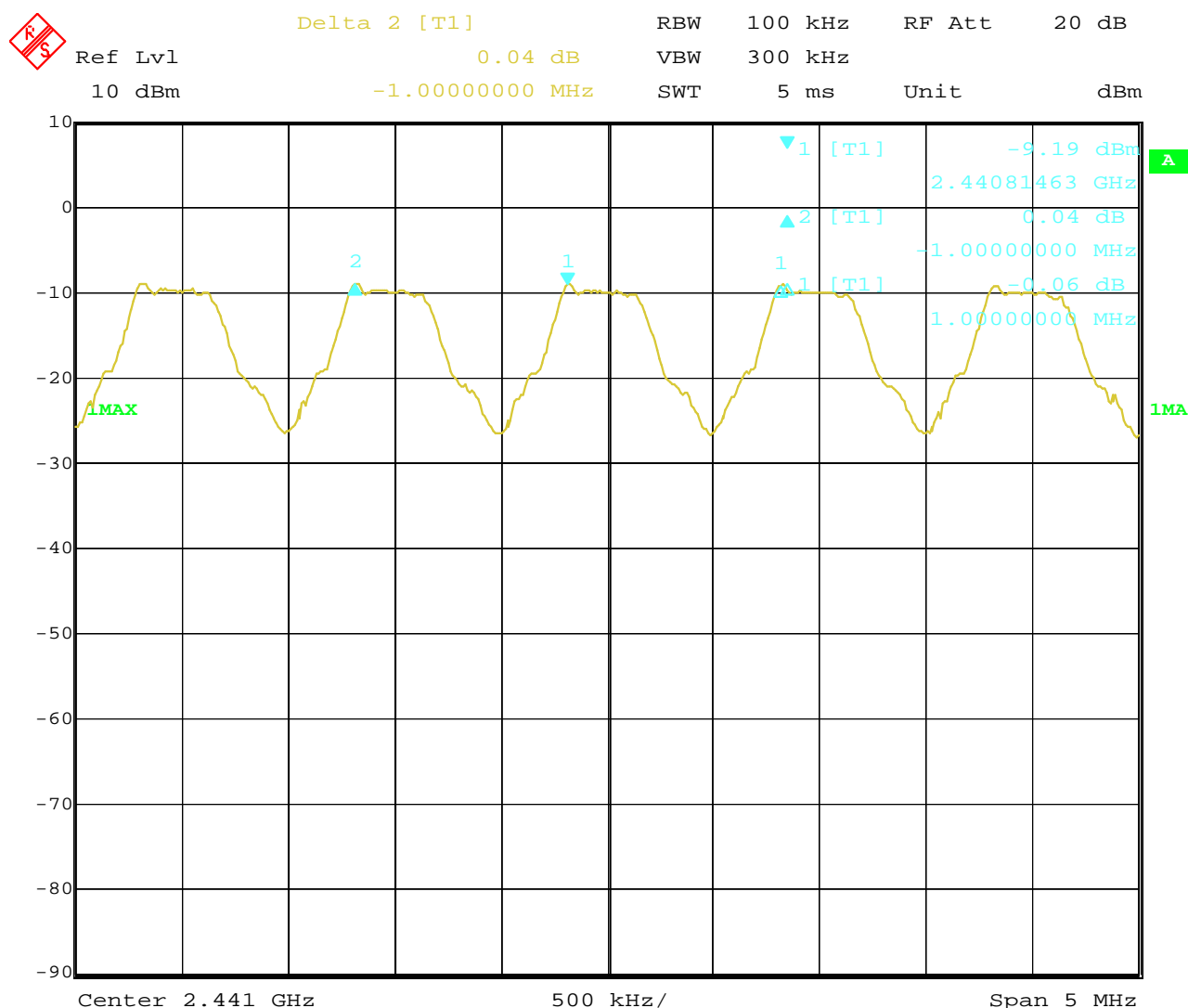


## 9.4 Test Result

### Type of Modulation: GFSK

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		$\geq 25$ kHz or 2/3 of the 20 dB bandwidth	Pass

## Test Plots



Date: 13.SEP.2021 16:31:41

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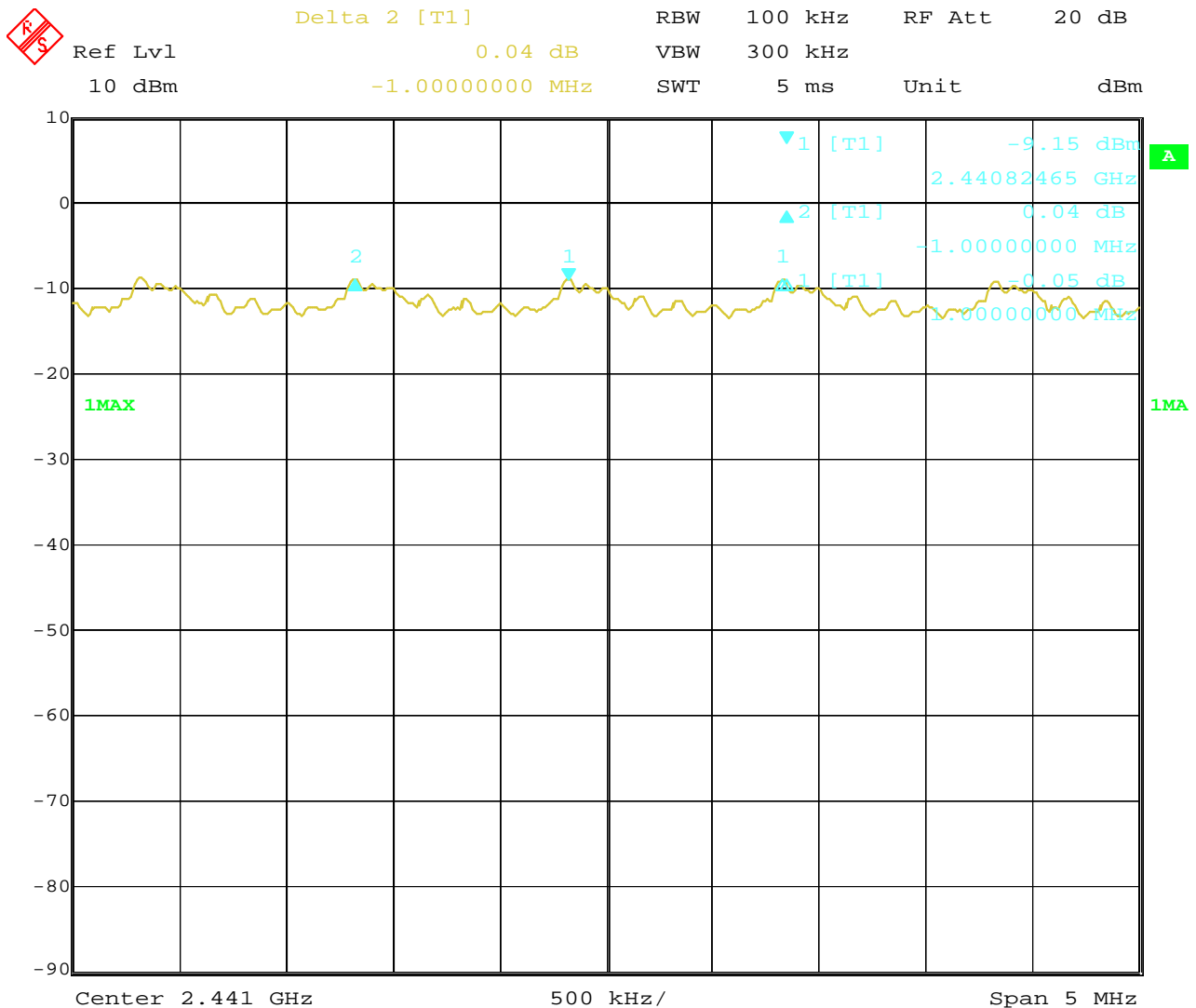
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**Type of Modulation:  $\pi/4$ DQPSK**

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		$\geq 25$ kHz or 2/3 of 20 dB bandwidth	Pass

**Test Plots**



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## **10. Number of Hopping Channels**

### **10.1 Regulation**

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

### **10.2 Limits of Number of Hopping Channels**

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

### **10.3 Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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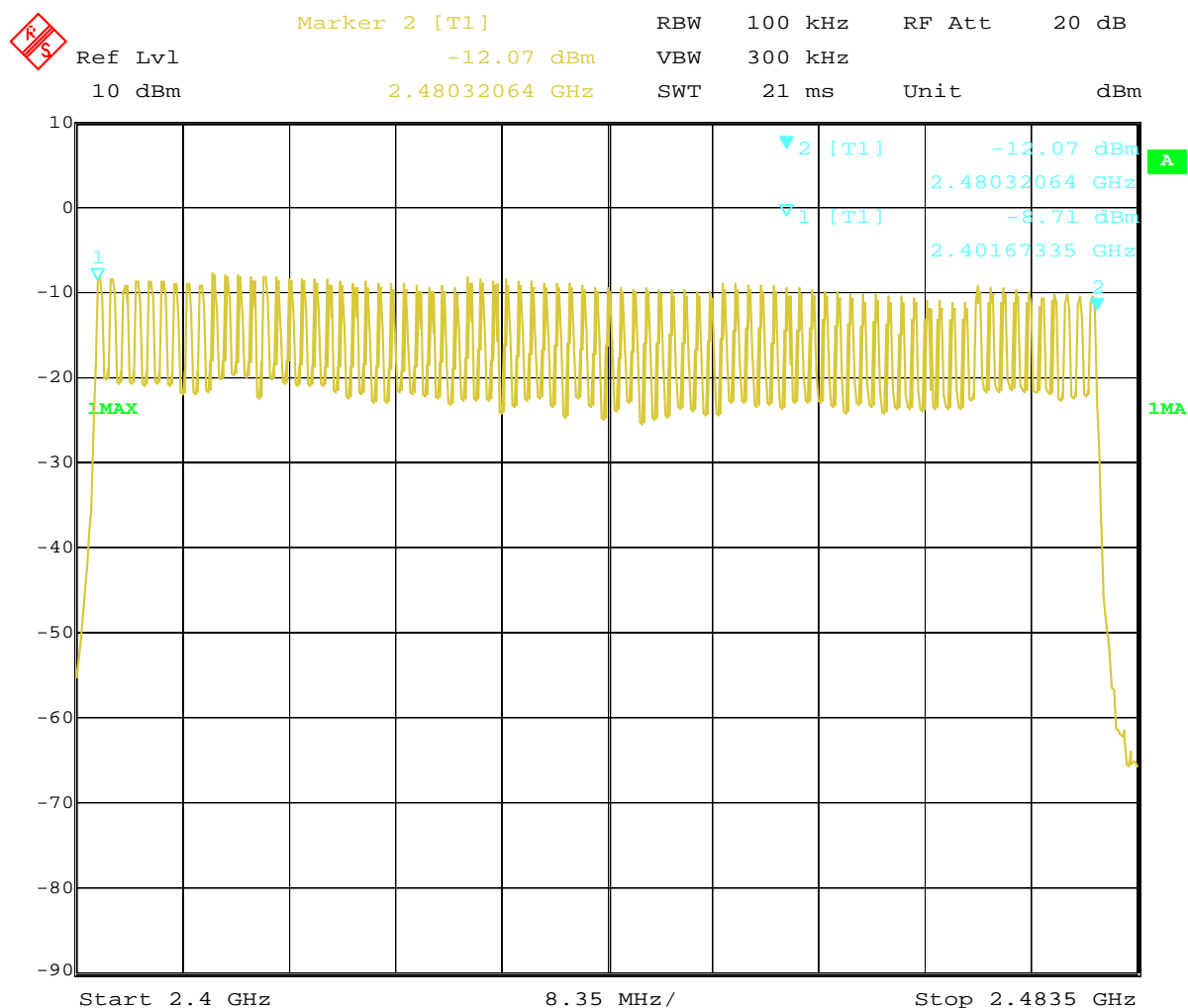


## 10.4 Test Result

### Type of Modulation: GFSK

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

## Test Plot



Date: 13.SEP.2021 16:40:14

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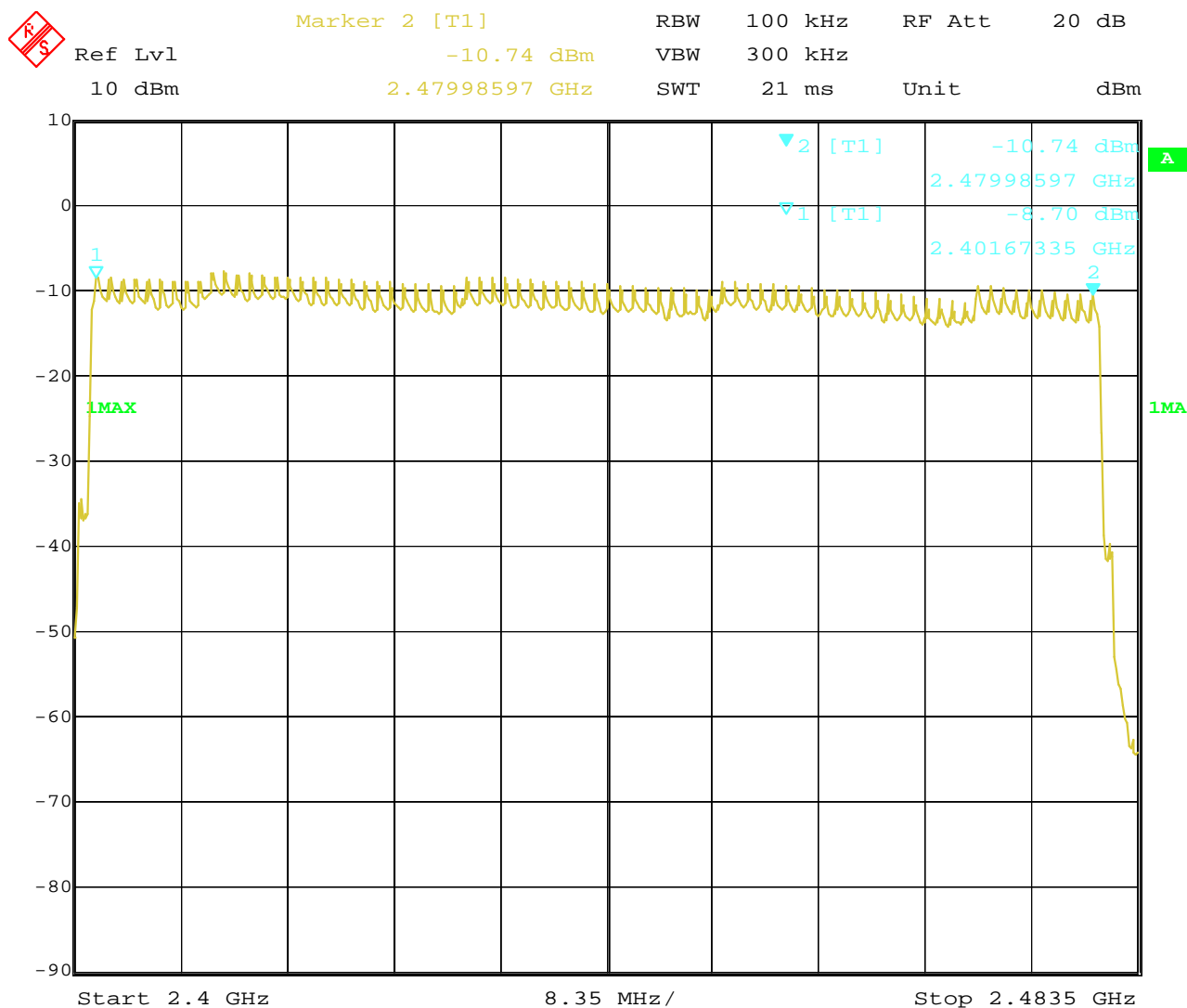




**Type of Modulation:  $\pi/4$ DQPSK**

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	$\geq 15$	Pass

**Test Plot**



Date: 13.SEP.2021 16:45:24

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## **11. Time of Occupancy (Dwell Time)**

### **11.1 Regulation**

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### **11.2 Limits of Carrier Frequency Separation**

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

### **11.3 Test Procedure**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW  $\geq$  RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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#### 11.4 Test Result

##### Type of Modulation: GFSK

EUT		Desk Lamp with BT Speaker		Model		99707	
Mode		Keep Transmitting		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Reading		Hoping Rate			Actual	Limit
DH5							
Middle	2.986ms		266.667 hop/s			0.319s	0.4s
DH3							
Middle	1.743ms		400 hop/s			0.279s	0.4s
DH1							
Middle	0.461ms		800 hop/s			0.148s	0.4s

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

The report refers only to the sample tested and does not apply to the bulk.

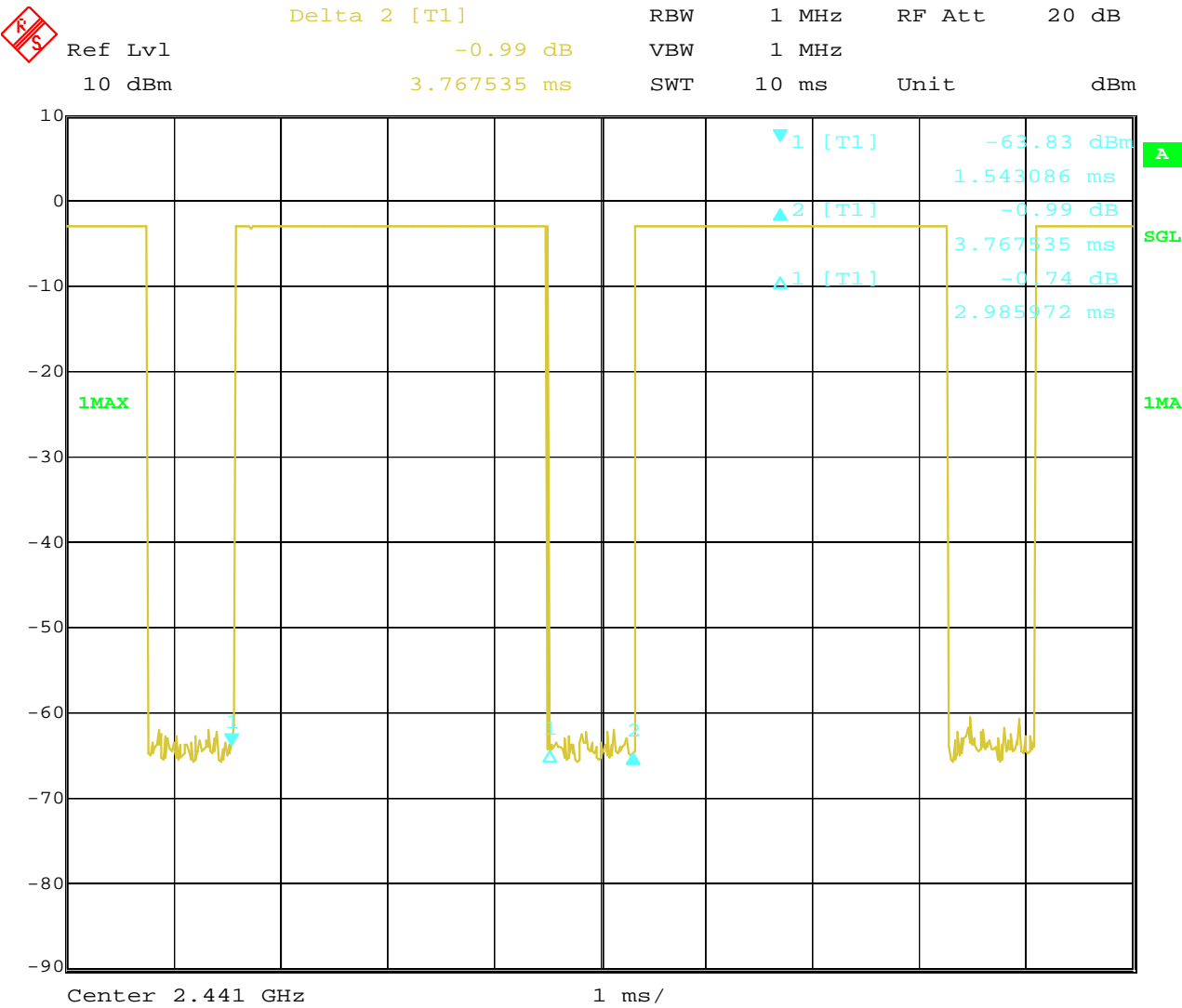
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Test Plots:

DH5

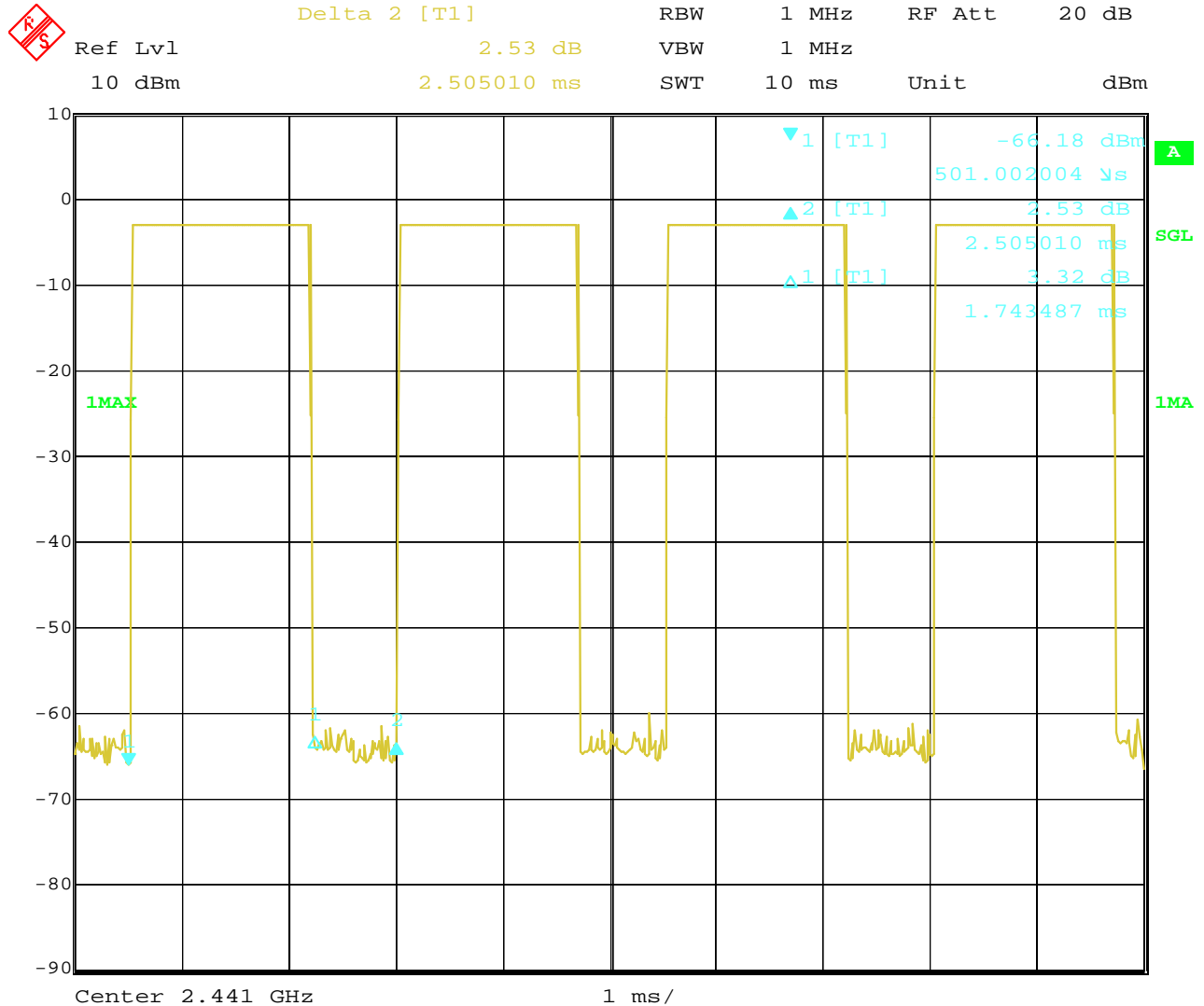


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### DH3



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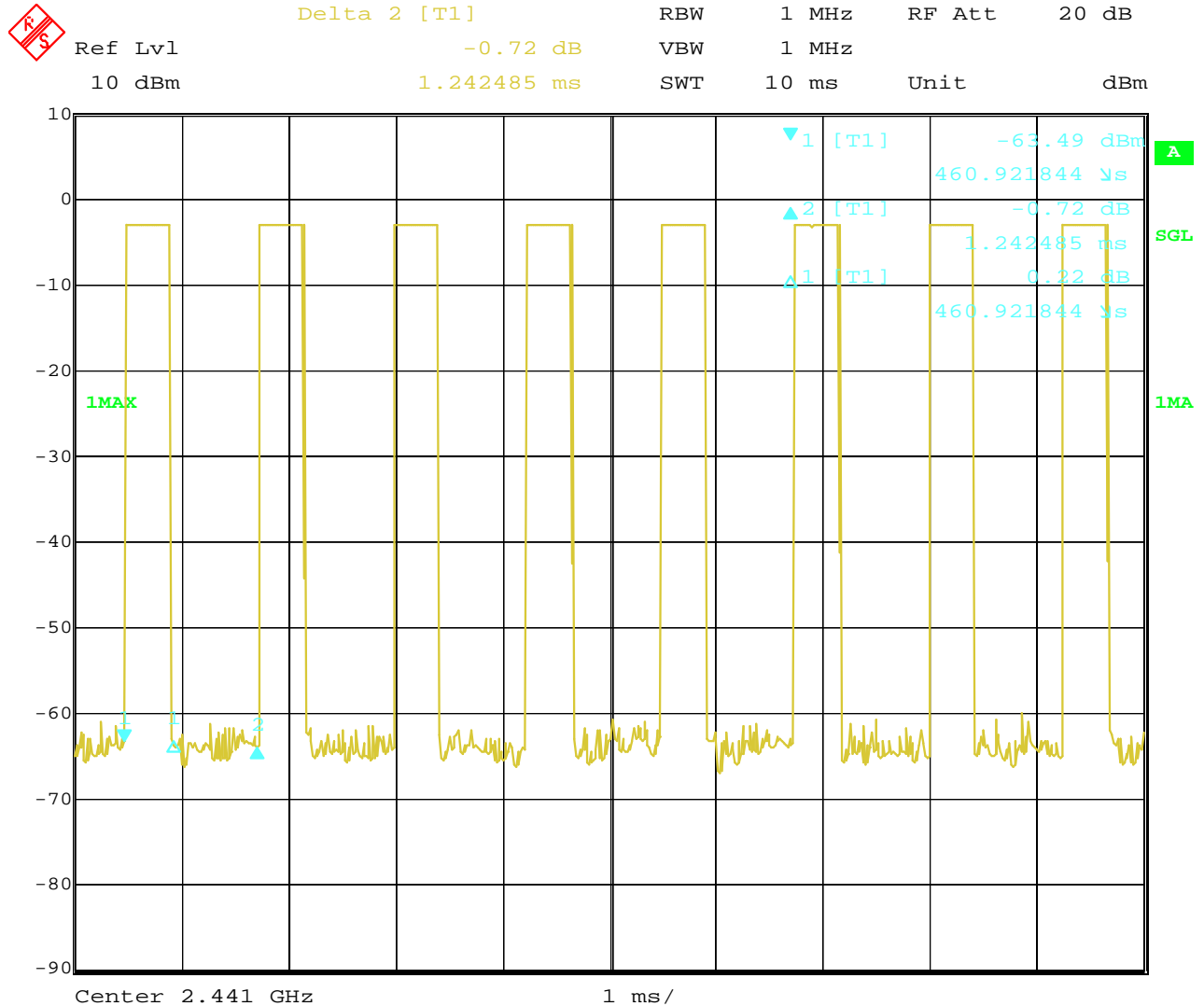
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# DH1



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## Test Result

### Type of Modulation: $\pi/4$ DQPSK

EUT		Desk Lamp with BT Speaker		Model		99707	
Mode		Keep Transmitting		Input Voltage		120V~	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Reading		Hoping Rate			Actual	Limit
2DH5							
Middle	2.986ms		266.667 hop/s			0.319s	0.4s
2DH3							
Middle	1.723ms		400 hop/s			0.276s	0.4s
2DH1							
Middle	0.481ms		800 hop/s			0.154s	0.4s

Actual = Reading  $\times$  (Hopping rate / Number of channels)  $\times$  Test period, Test period = 0.4 [seconds / channel]  $\times$  79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 $\mu$ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

The report refers only to the sample tested and does not apply to the bulk.

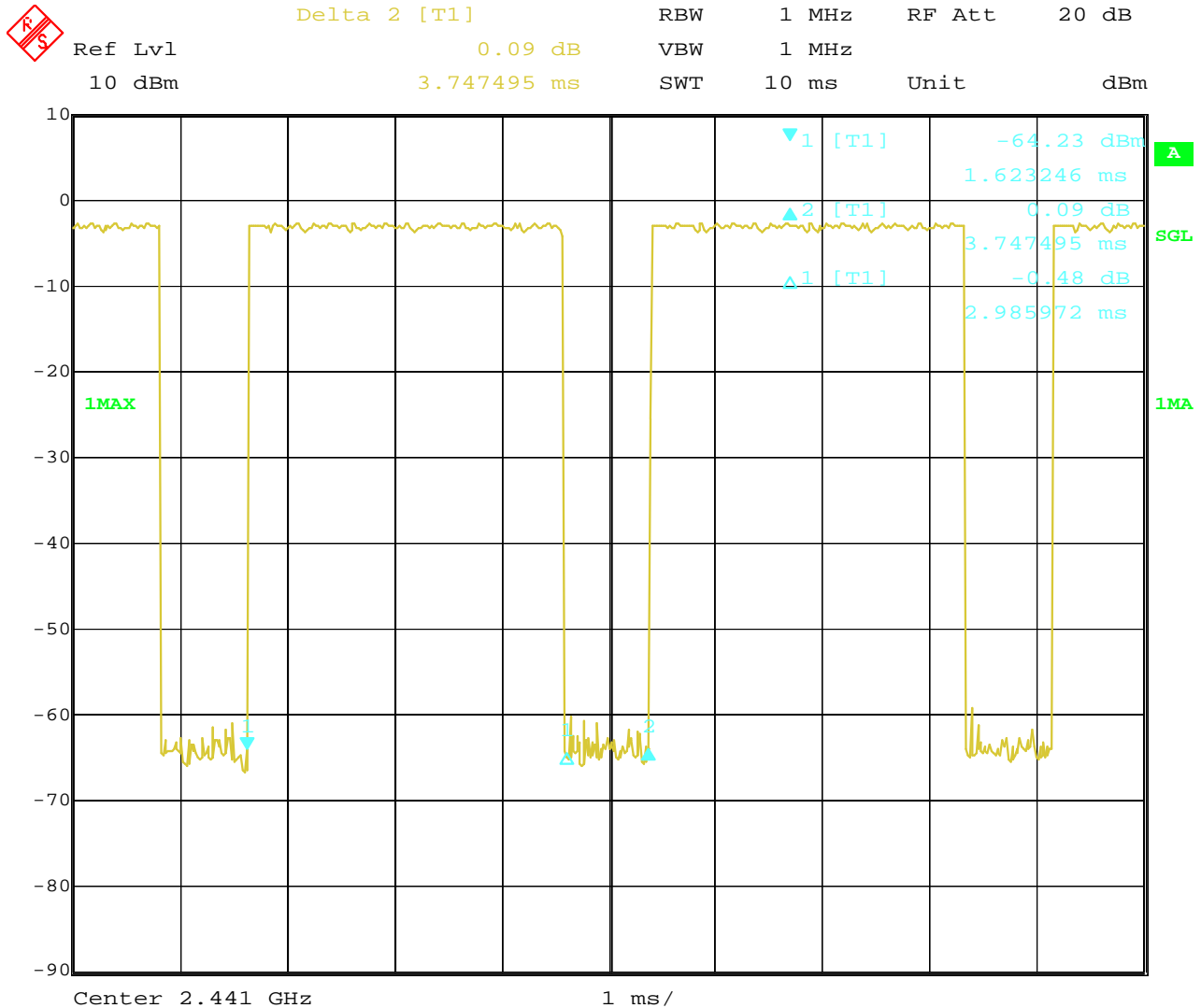
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Test Plots:

2DH5



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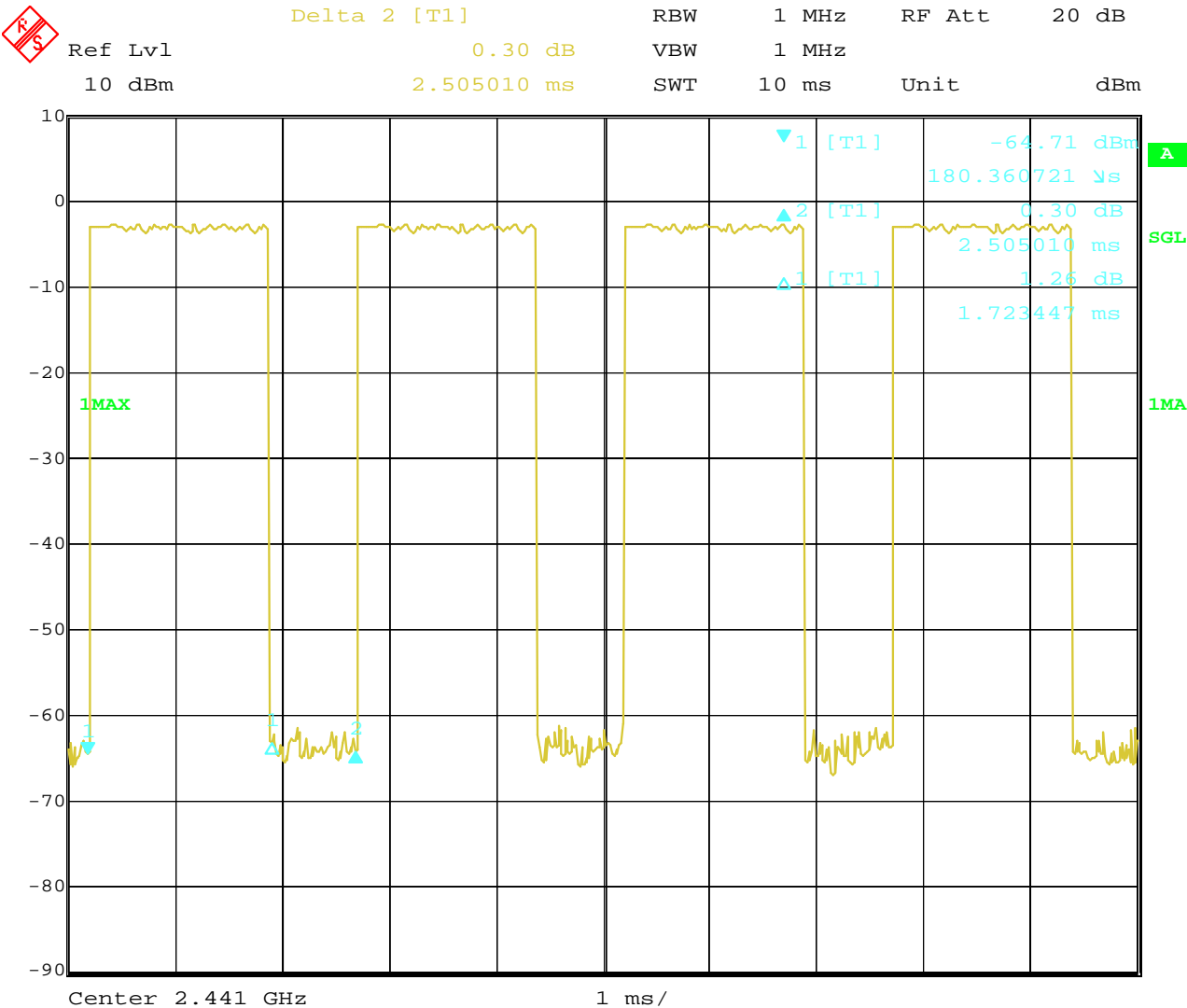
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2DH3

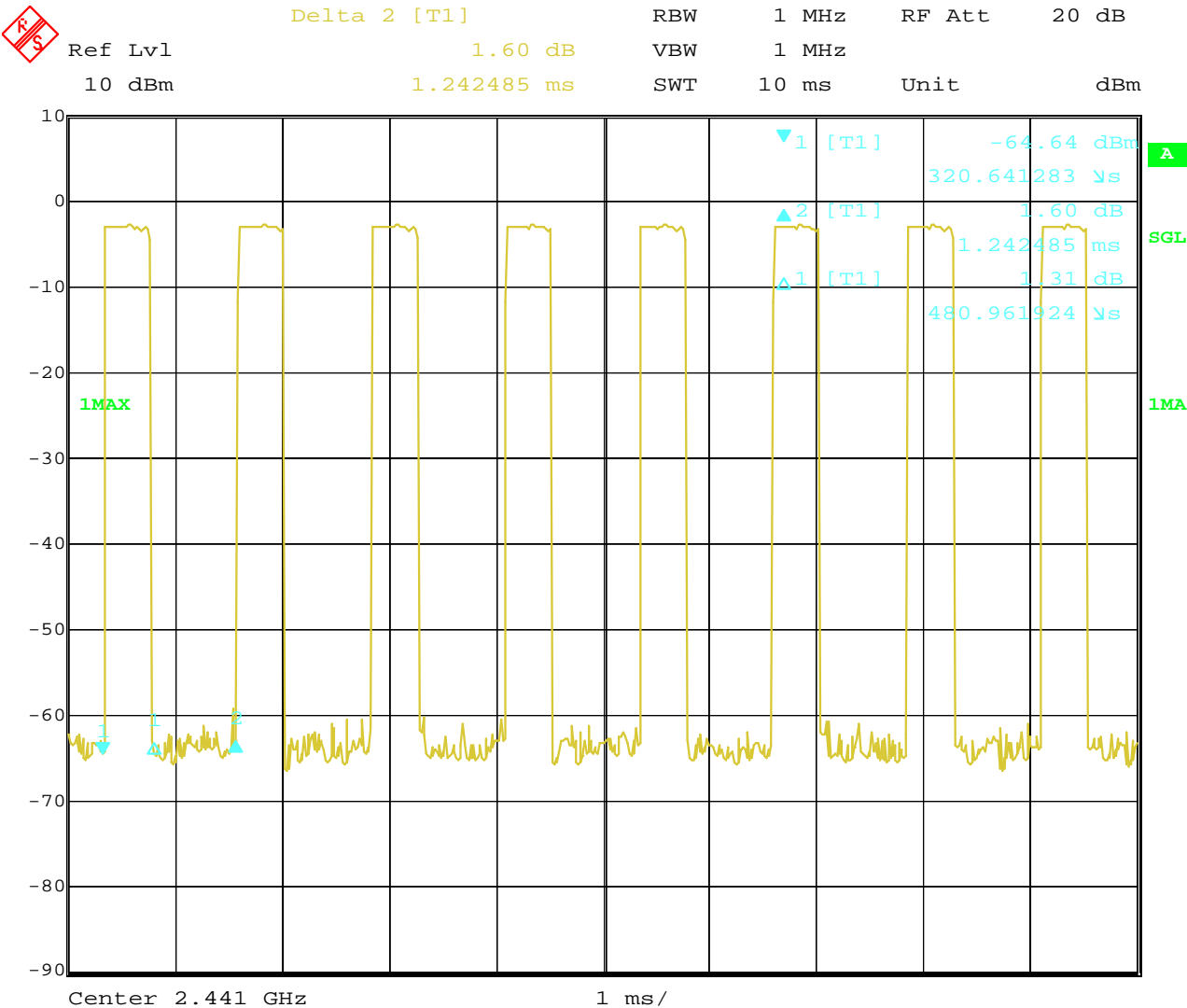


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2DH1



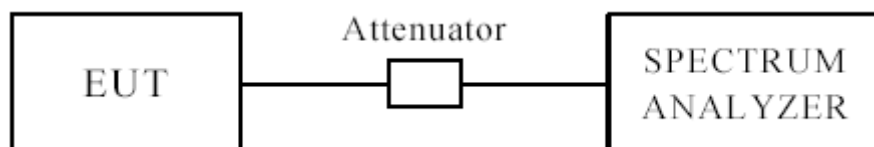
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## 12 Out of Band Measurement

### 12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

### 12.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in  $100\text{kHz}$  Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 12.3 Test Procedure

For signals in the restricted bands above and below the  $2.4\text{--}2.483\text{GHz}$  allocated band a measurement was made of radiated emission test. Peak values with  $\text{RBW}=\text{VBW}=1\text{MHz}$  and PK detector.

For bandage test, the spectrum set as follows:  $\text{RBW}=100\text{kHz}$ ,  $\text{VBW}=300\text{ kHz}$ . A conducted measurement used

Note: 1. For band-edge measurement, the frequency from  $30\text{MHz}$ - $25\text{GHz}$  was tested. And It met the FCC rule.

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

The report refers only to the sample tested and does not apply to the bulk.

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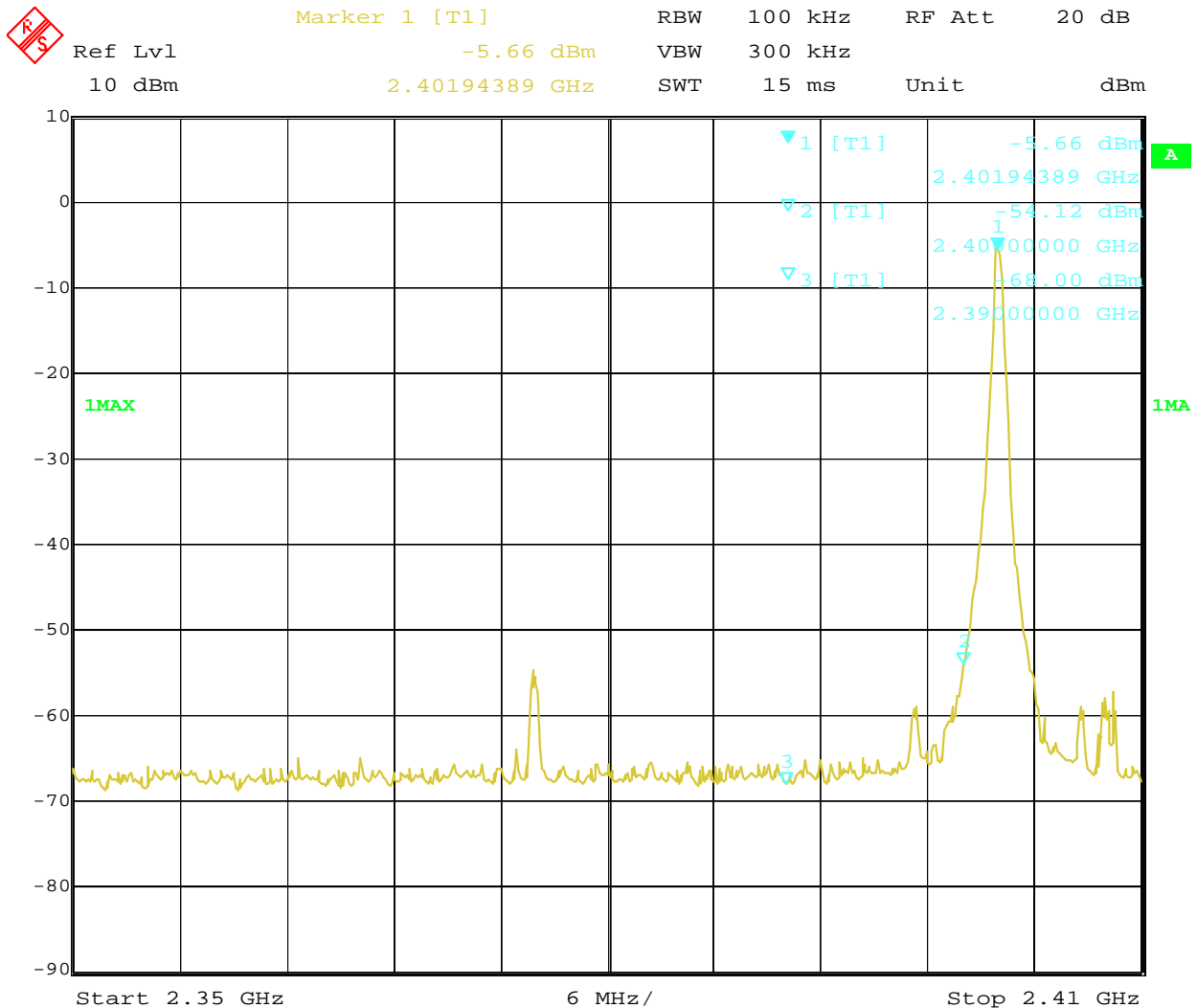


**Type of Modulation: GFSK**

**12.4 Band Edge Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 13.SEP.2021 10:33:12

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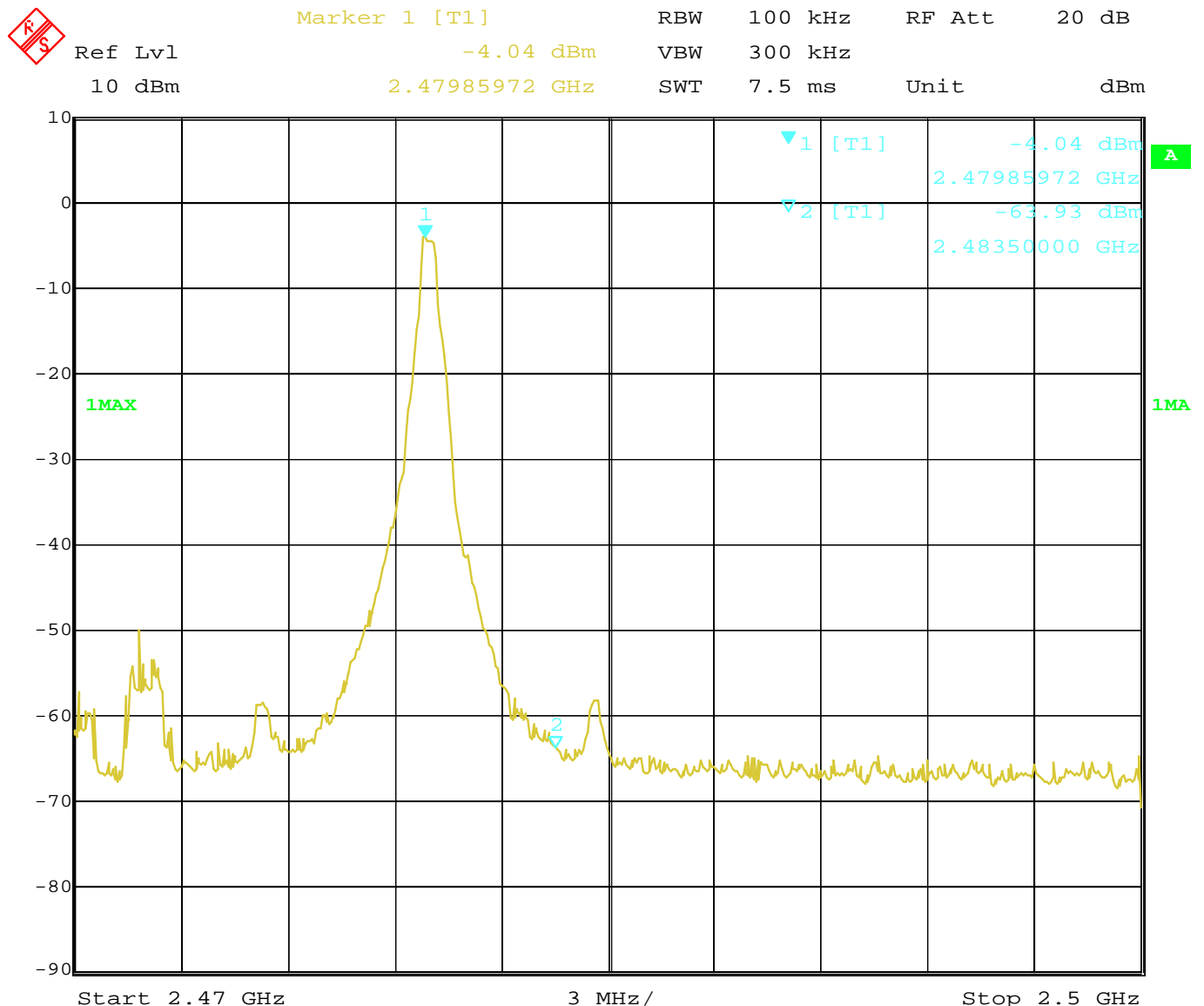


**Type of Modulation: GFSK**

**12.4 Band Edge Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 13.SEP.2021 10:32:40

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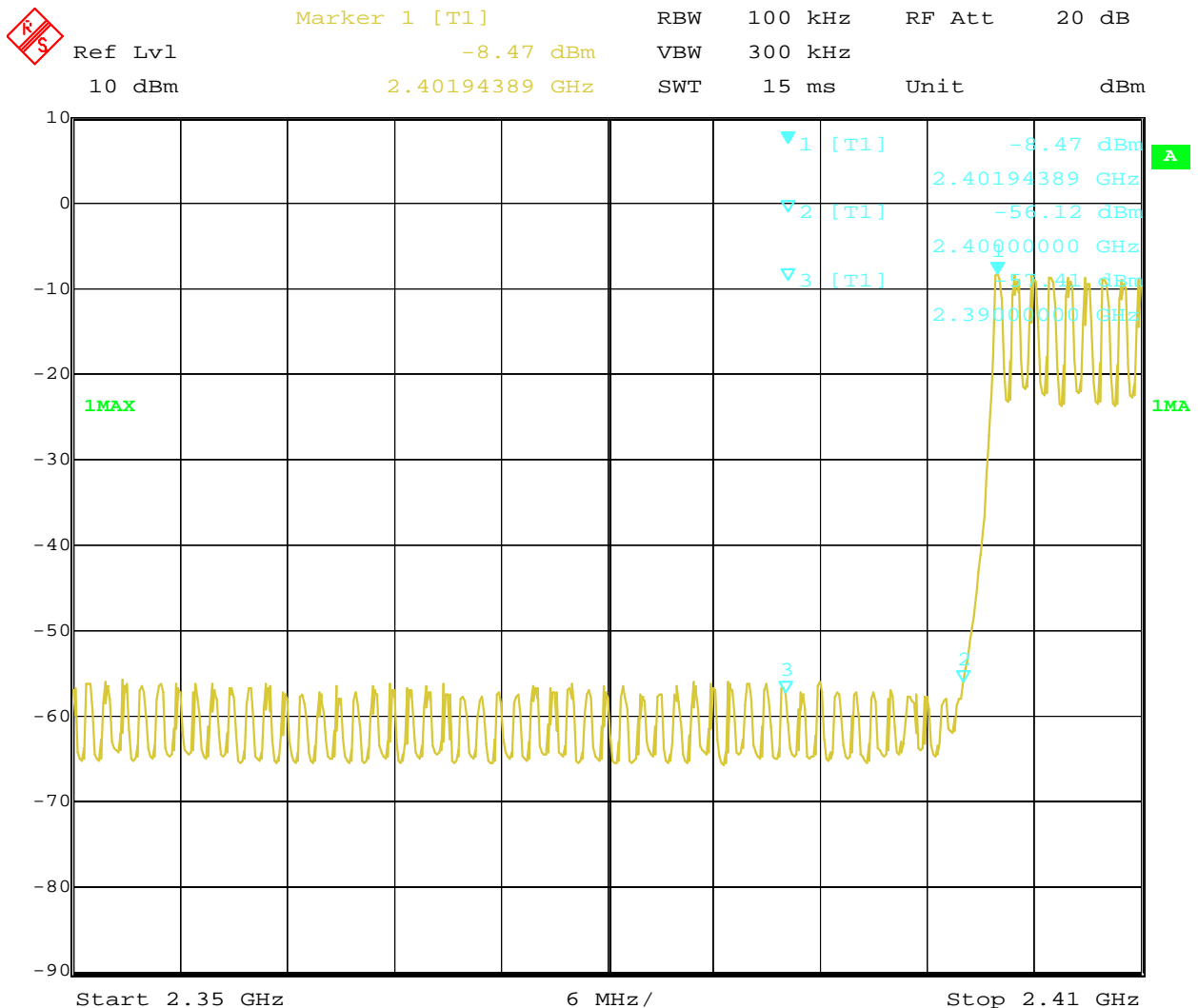


**Type of Modulation: GFSK**

**12.4 Band Edge Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 13.SEP.2021 17:35:57

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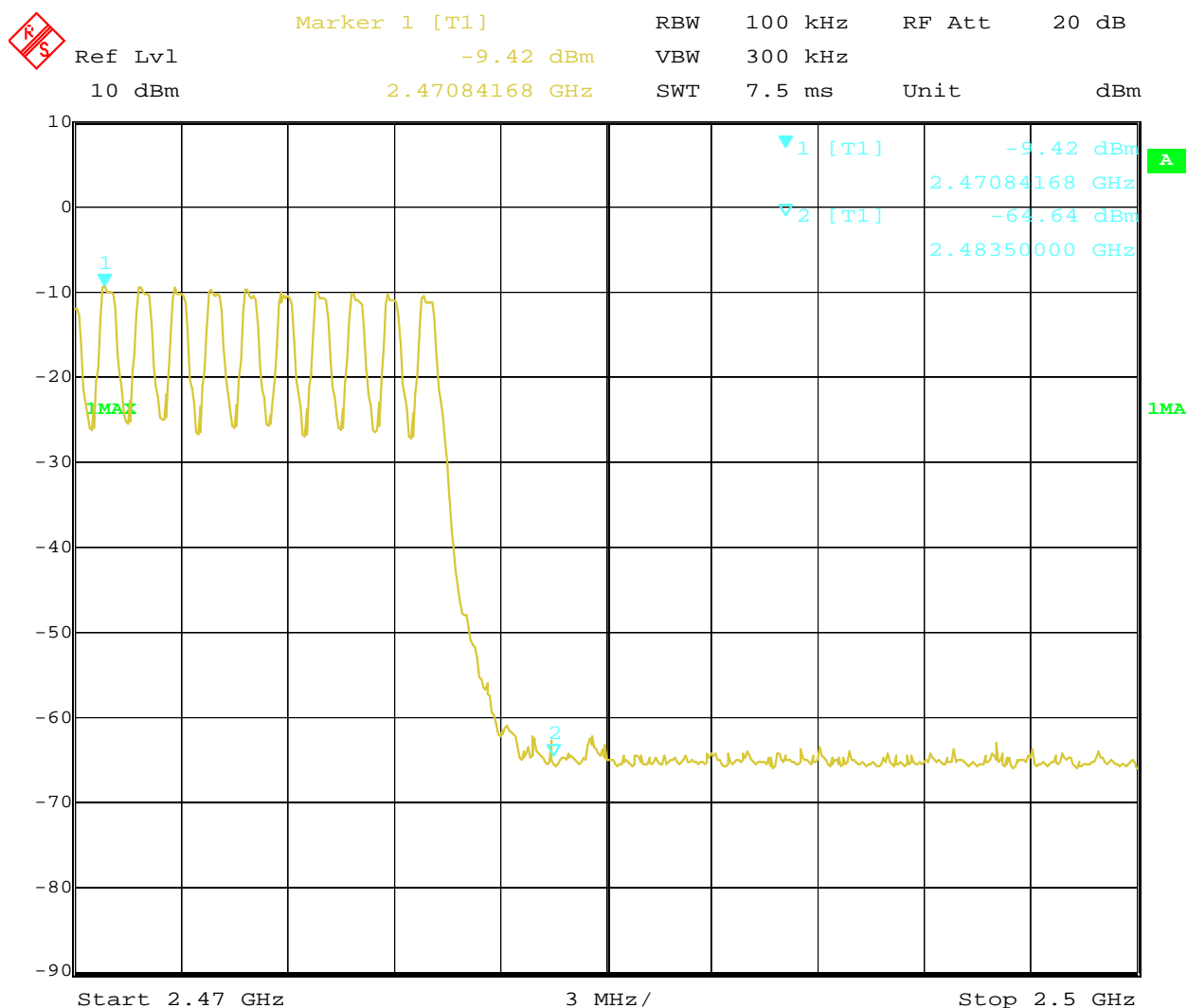


### Type of Modulation: GFSK

#### 12.4 Band Edge Test Result

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

#### Test Figure:



Date: 13.SEP.2021 17:29:05

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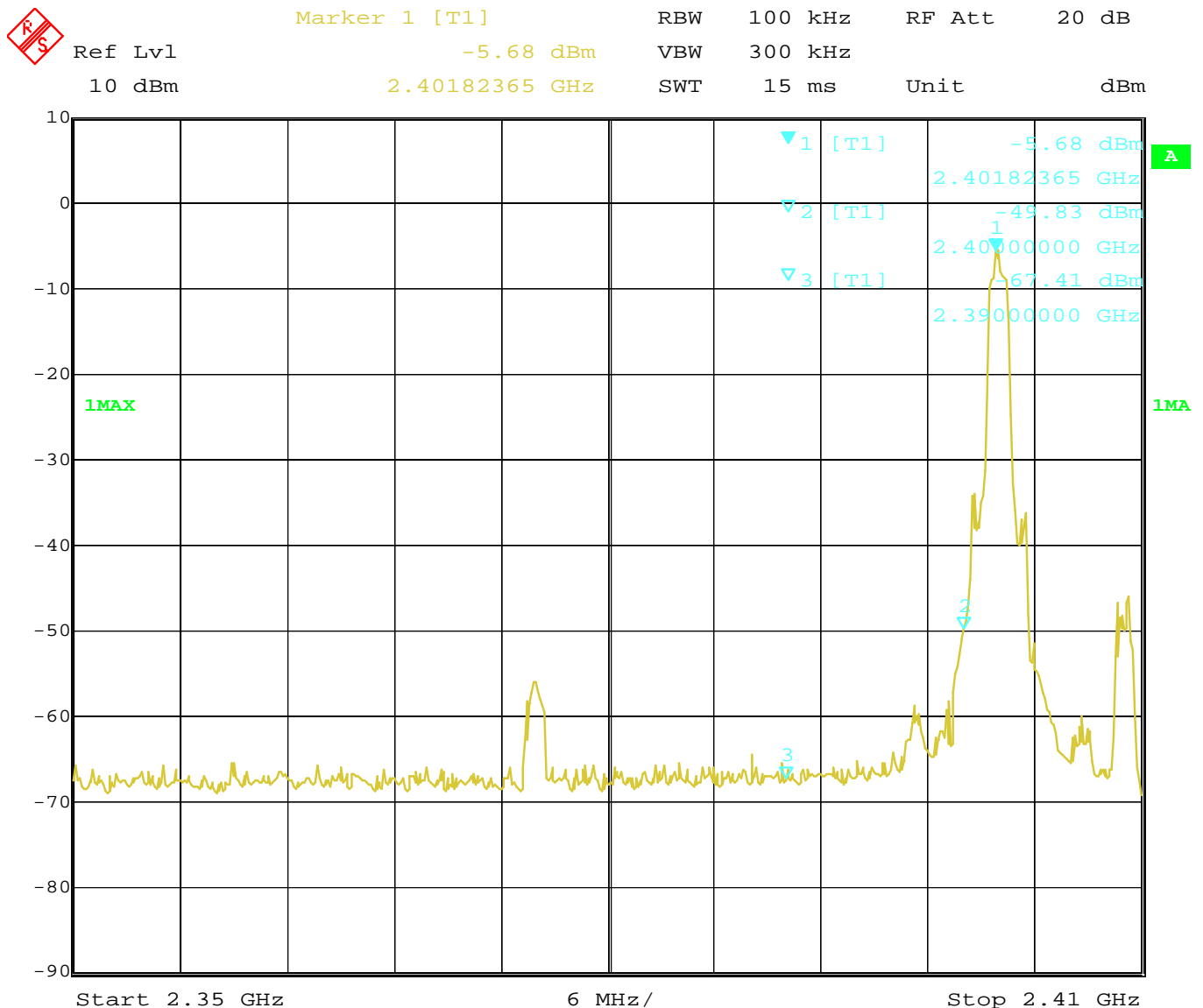


**Type of Modulation:  $\pi/4$ QPSK**

**12.4 Out of Band Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 13.SEP.2021 10:33:46

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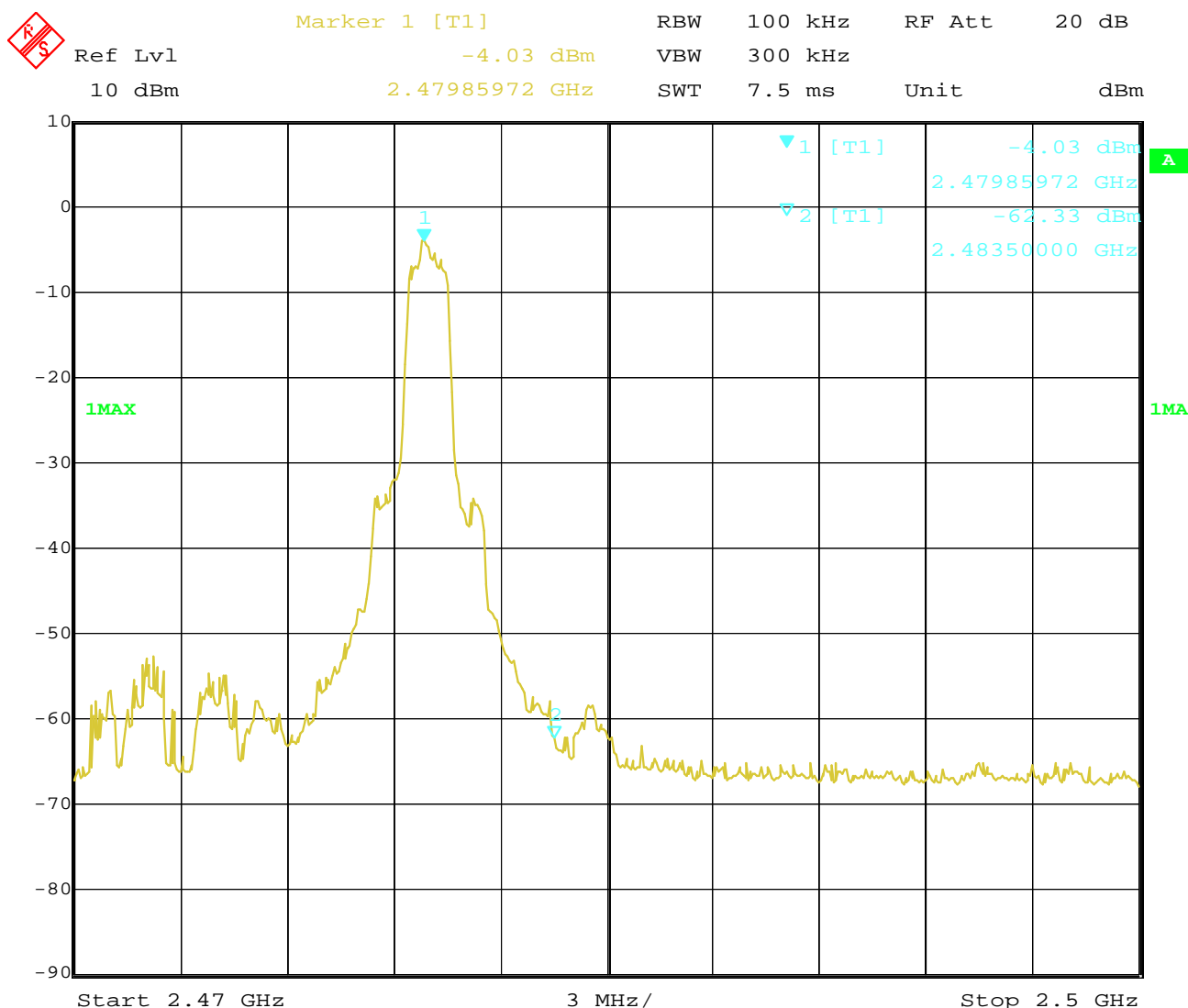


**Type of Modulation:  $\pi/4$ DQPSK**

**12.4 Band Edge Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Keeping Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 13.SEP.2021 10:31:03

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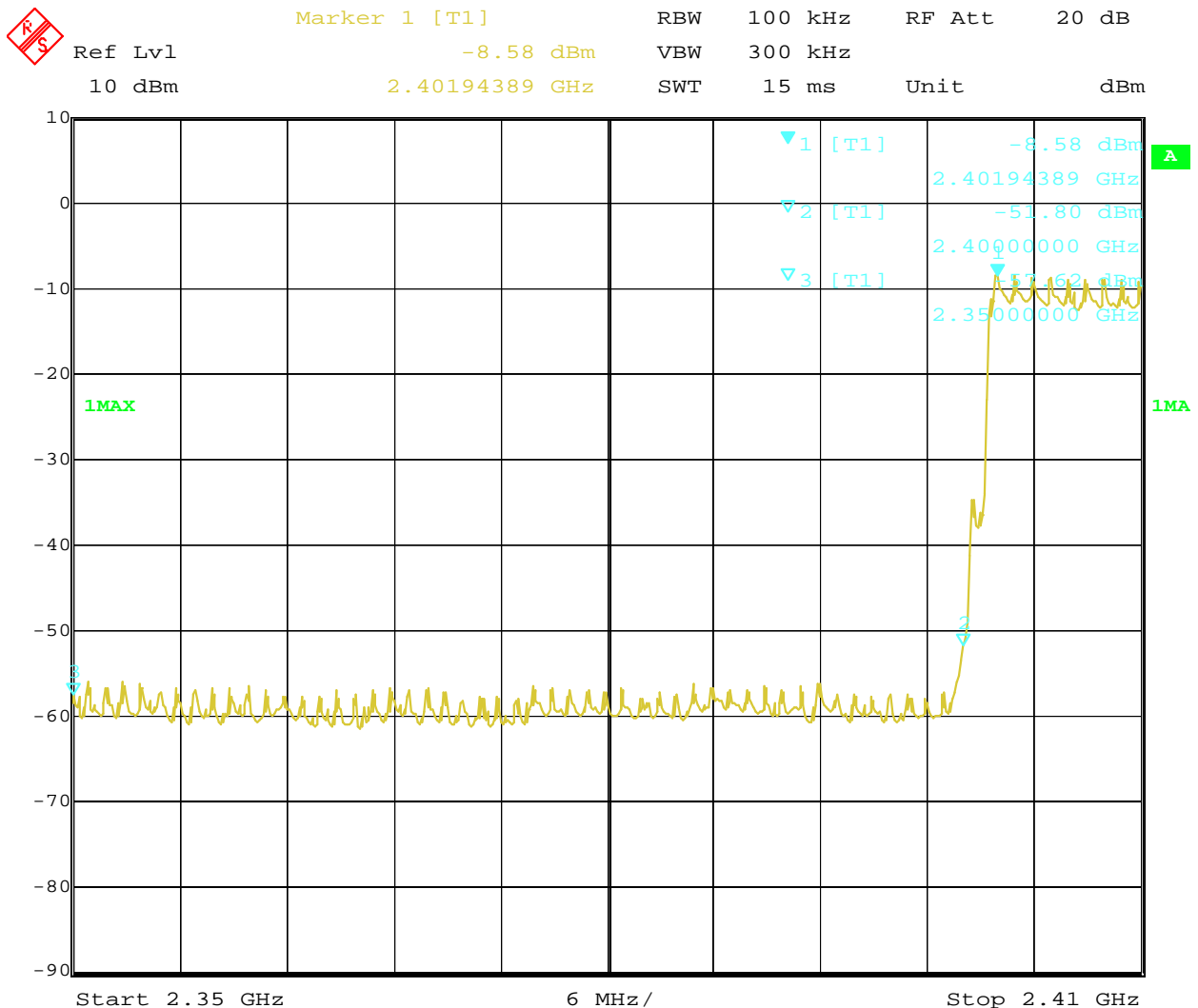


**Type of Modulation:  $\pi/4$ QPSK**

**12.4 Out of Band Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 11.SEP.2021 17:02:18

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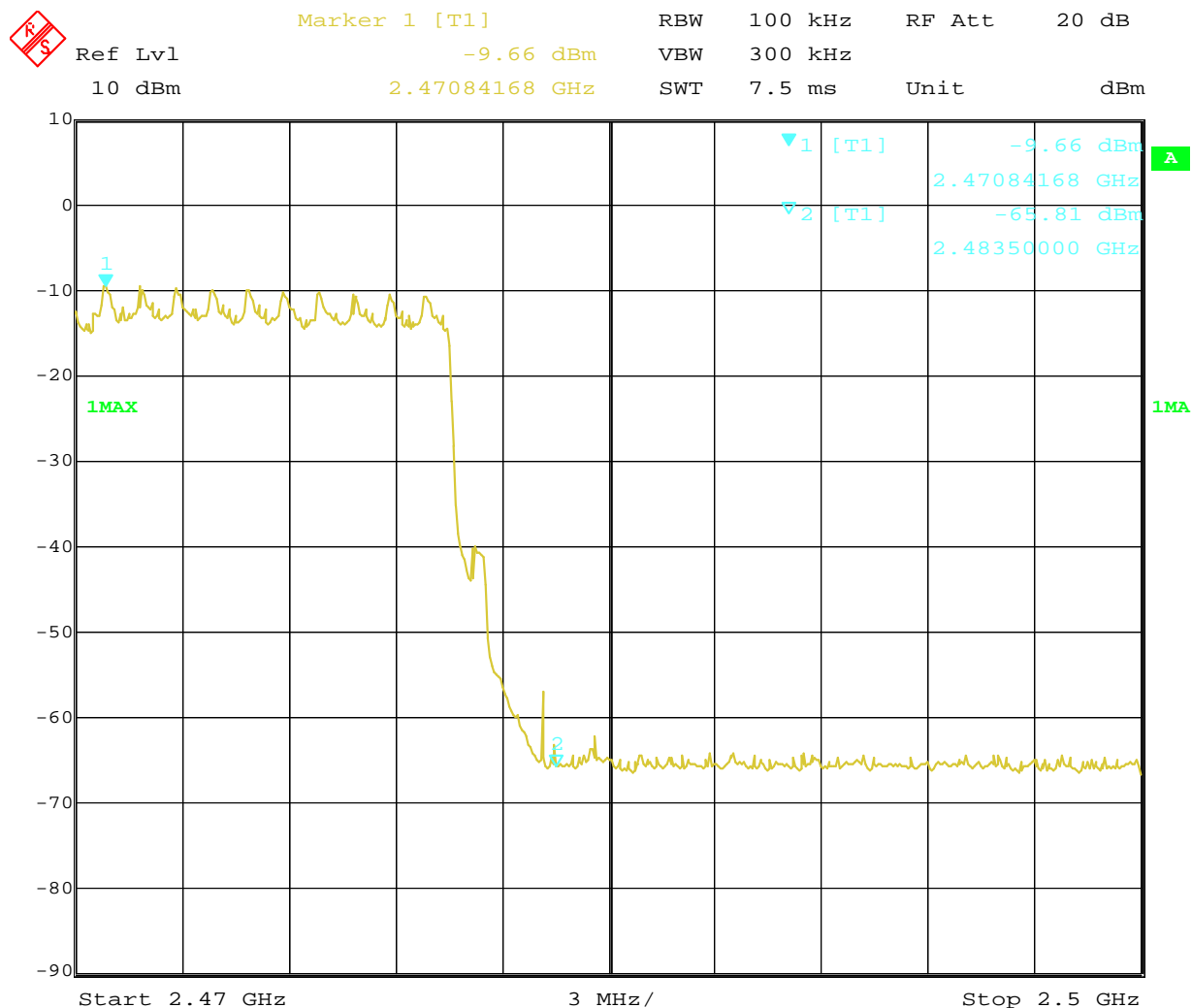


**Type of Modulation:  $\pi/4$ QPSK**

**12.4 Out of Band Test Result**

Product:	Desk Lamp with BT Speaker	Test Mode:	99707
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



Date: 13.SEP.2021 17:07:28

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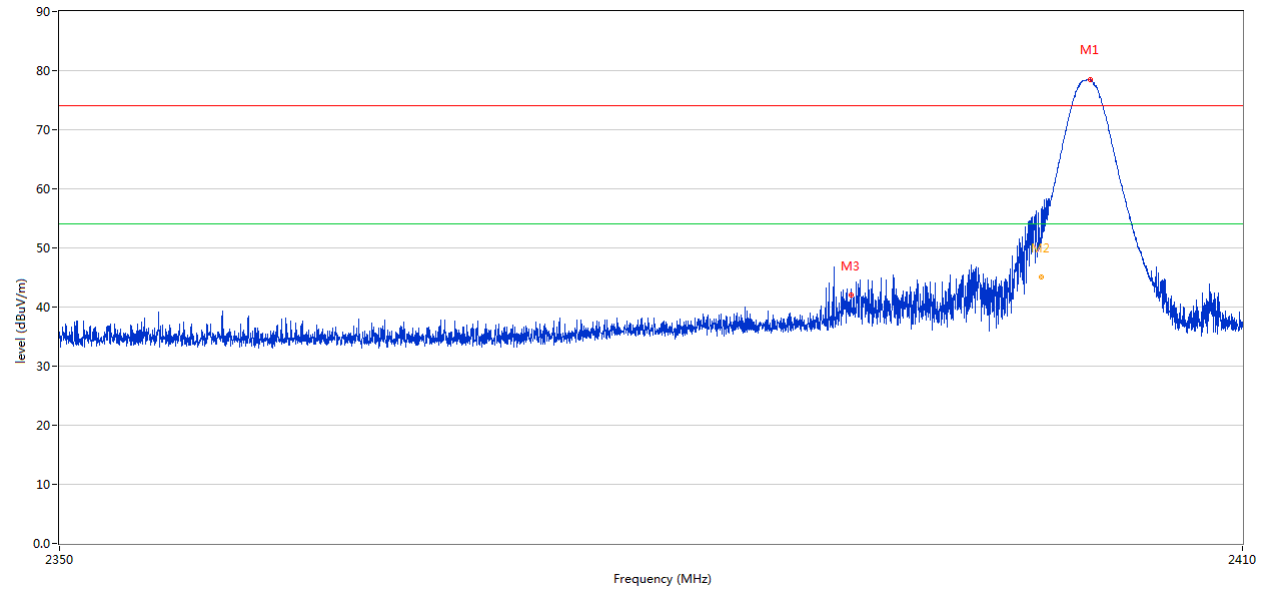
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#### 12.4 Restrict Band Measurement

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	π/4DQPSK

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2399.680	56.27	-3.57	74.0	-17.73	Peak	156.00	100	Horizontal	Pass
2**	2399.680	45.12	-3.57	54.0	-8.88	AV	156.00	100	Horizontal	Pass
3	2389.975	42.00	-3.53	74.0	-32.00	Peak	147.00	100	Horizontal	Pass

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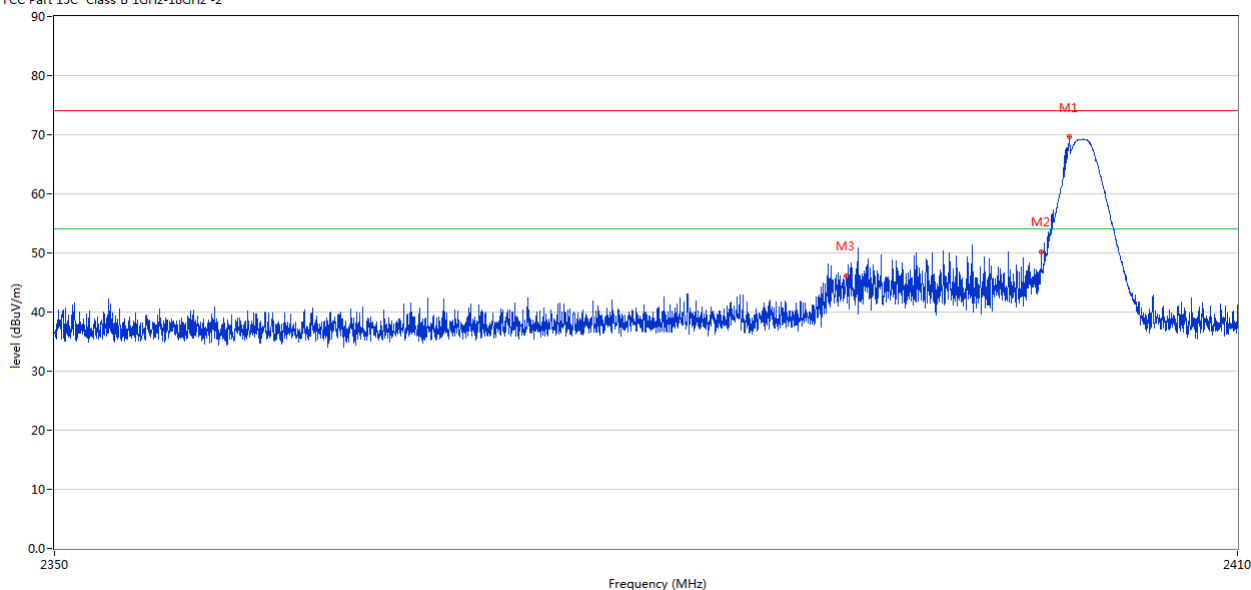
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## 12.4 Restrict Band Measurement

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	π/4DQPSK

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2399.950	50.14	-3.57	74.0	-23.86	Peak	99.00	100	Vertical	Pass
3	2389.975	46.05	-3.53	74.0	-27.95	Peak	13.00	100	Vertical	Pass

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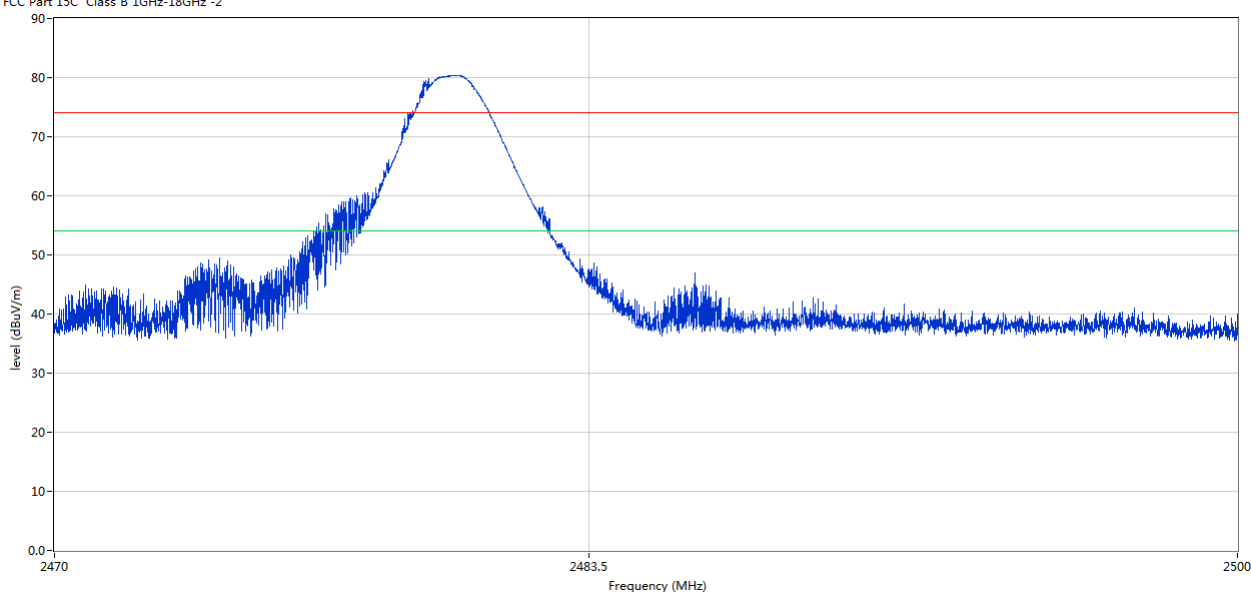
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#### 12.4 Restrict Band Measurement

EUT	Desk Lamp with BT Speaker	Model	99707
Mode	Keep Transmitting	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	π/4DQPSK

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.500	47.97	-3.57	74.0	-26.03	Peak	192.00	100	Horizontal	Pass

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#### 12.4 Restrict Band Measurement

EUT	Desk Lamp with BT Speaker	Model	99707							
Mode	Keep Transmitting	Input Voltage	120V~							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass	Modulation Type	π/4DQPSK							

FCC Part 15C Class B 1GHz-18GHz -2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2483.500	41.73	-3.57	74.0	-32.27	Peak	95.00	100	Vertical	Pass

- Note: 1. For Restricted band test, only the worst case was reported and π/4DQPSK was the worst case**
- 2. The measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result**

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### 13.0 Antenna Requirement

#### 13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 13.2 Antenna Connected constructions

PCB antenna used. The gain is -0.58dBi.

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#### 14.0 FCC ID Label

**FCC ID: 2A2WN-99707**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

##### Mark Location:



Label Location

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## 15.0 Photo of testing

Conducted Test Setup:



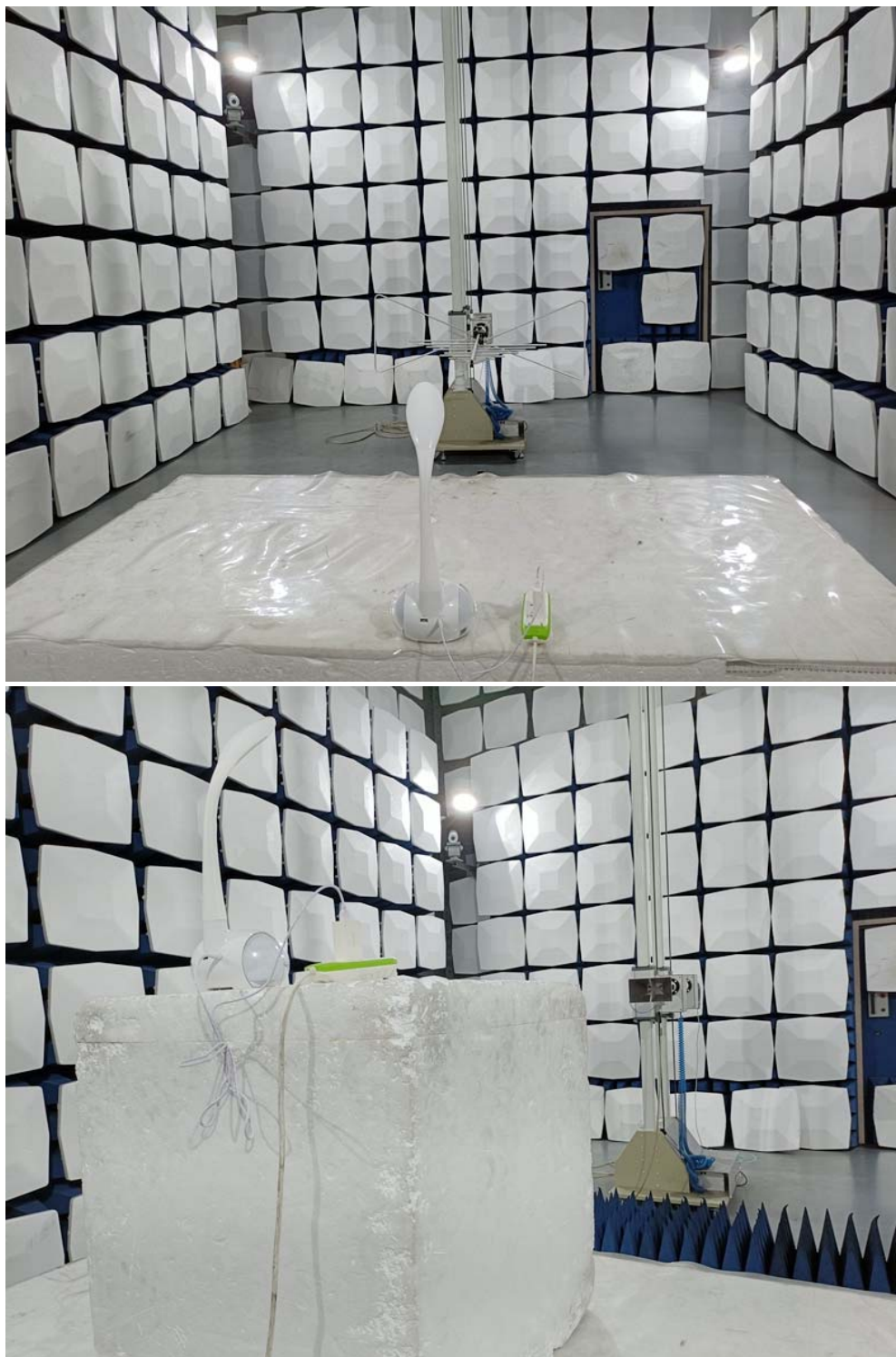
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Radiated Emission Test Setup:



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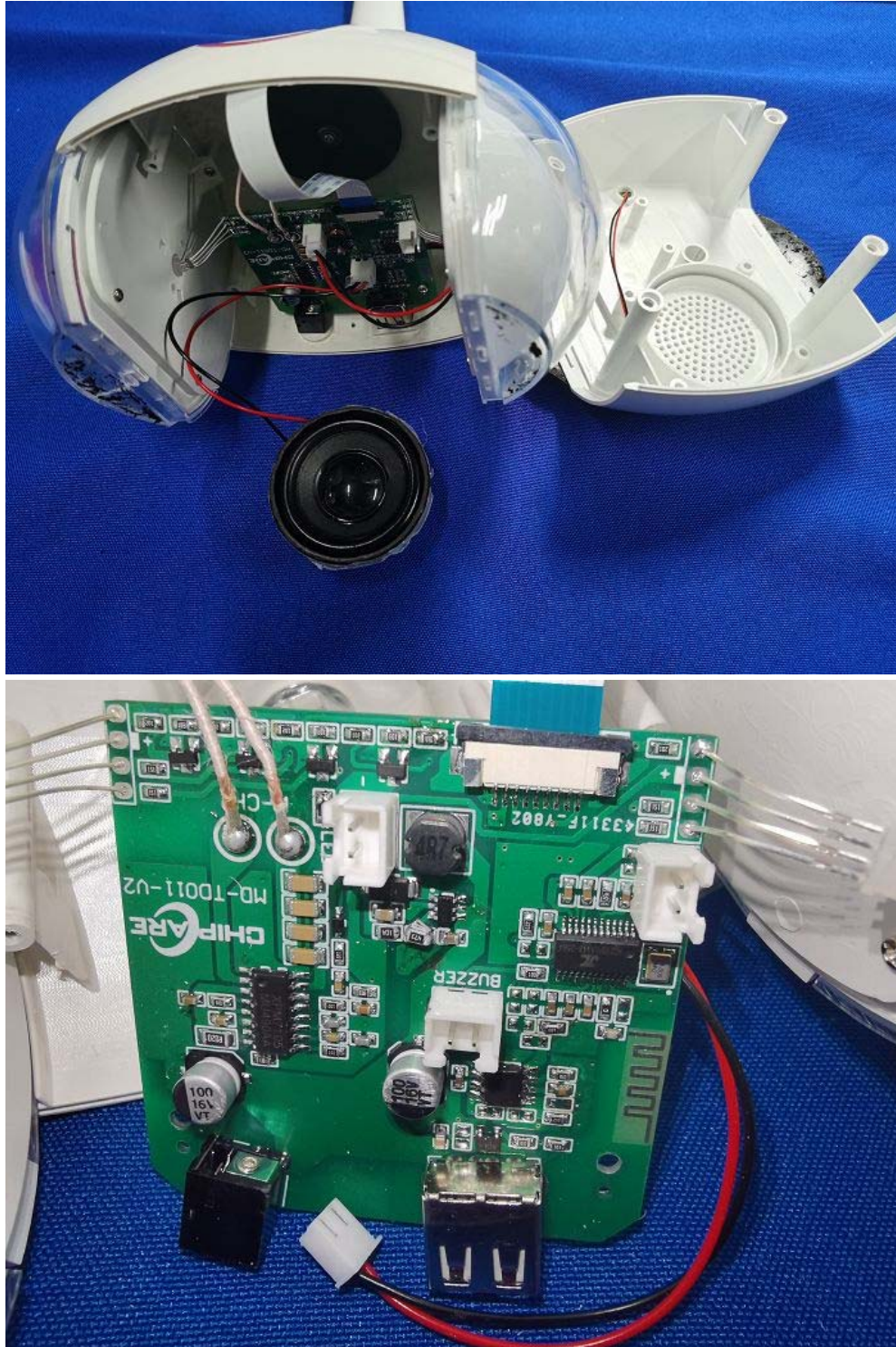
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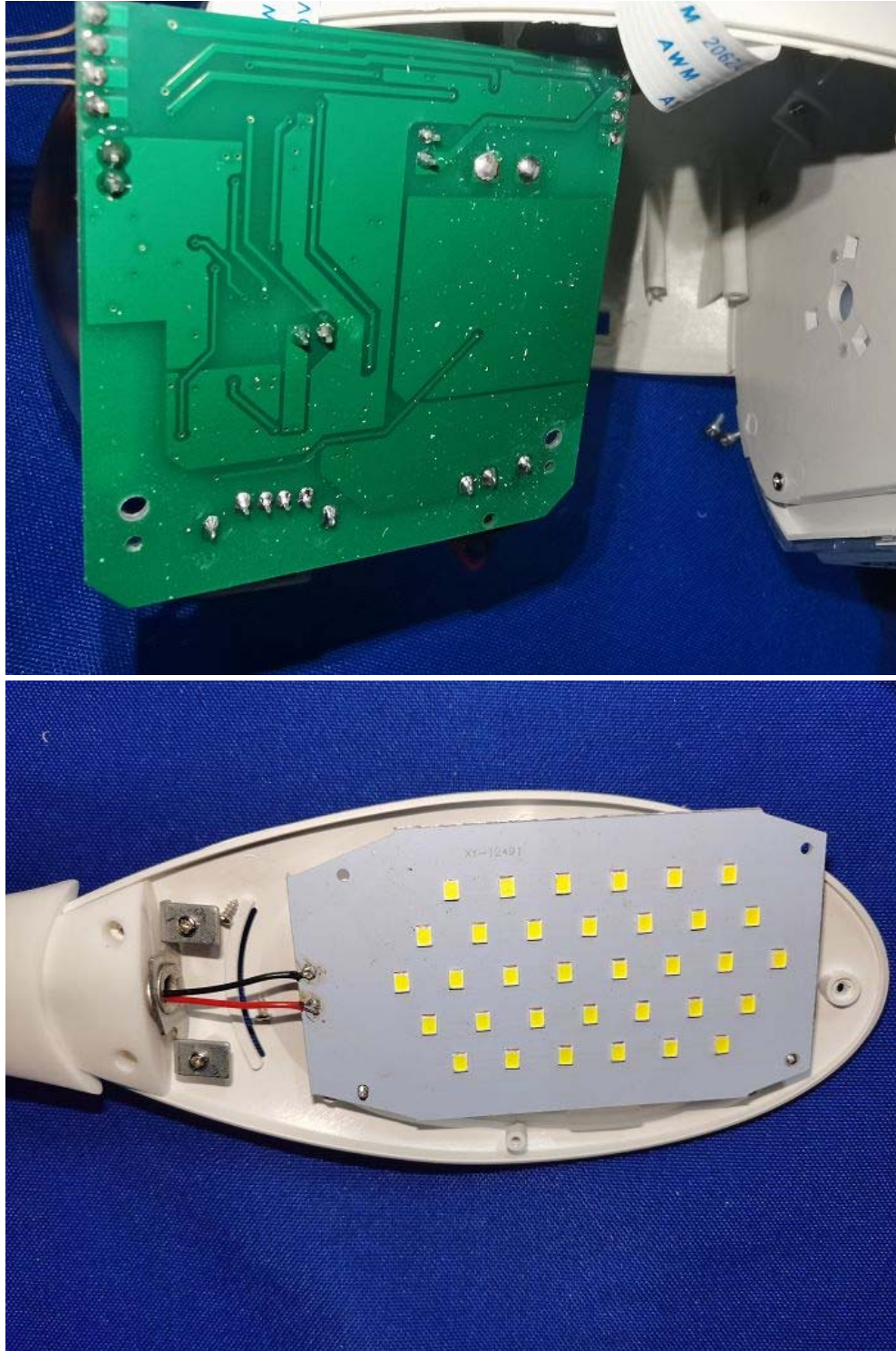
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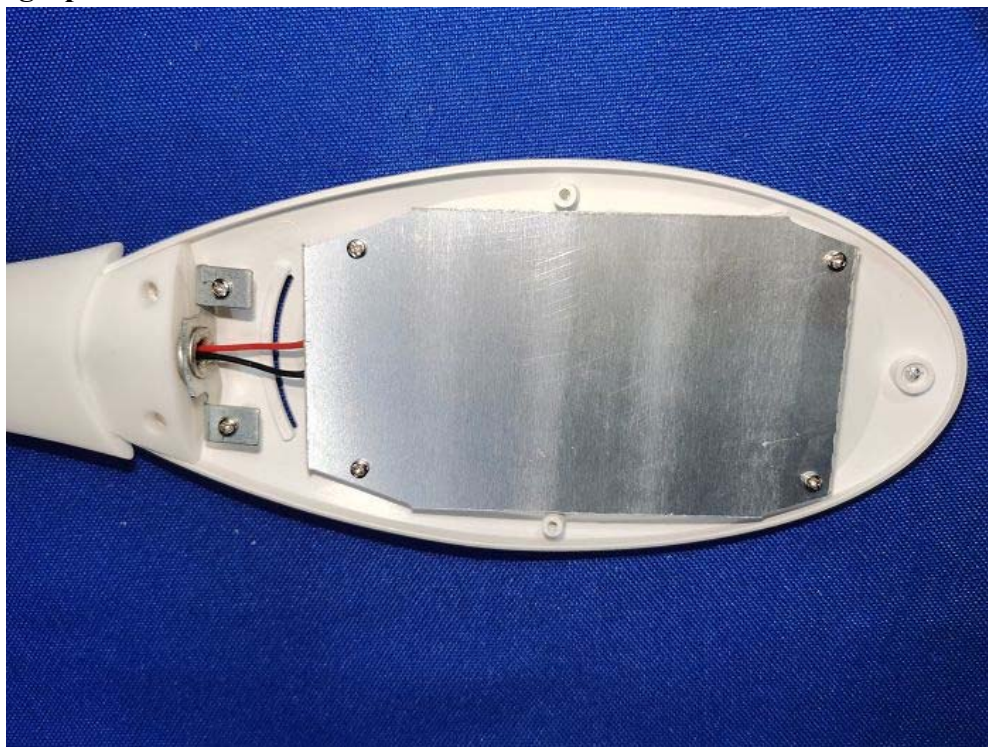
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**End of Report**

The report refers only to the sample tested and does not apply to the bulk.

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