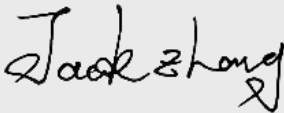


Test report No:
2350756R-RF-US-P06V01

FCC & ISED TEST REPORT

Product Name	LED Device
Trademark	PHILIPS
Model and /or type reference	9290036744, 9290036745, 9290036746
FCC ID	2AGBW9290036745X
IC	20812-36745X
Applicant's name / address	Signify (China) Investment Co., Ltd. Building No.9, Lane 888, Tianlin Road, Minhang district, 200233, Shanghai, China.
Test method requested, standard	CFR 47, FCC Part 15 C ANSI C63.10: 2013 RSS-Gen / RSS-247
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Jun Xu/ Project Engineer 
Approved by (name / position & signature)	Jack Zhang/ Manager 
Date of issue	2023-07-05
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	May. 29, 2023
Date (start test)	Jun. 03, 2023
Date (finish test)	Jun. 25, 2023

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2350756R-RF-US-P06V01	V1.0	Initial issue of report.	2023-07-05

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247, RSS-Gen Issue 5, RSS-247 Issue 2.
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Antenna Informaion;
 - Chapter 1.3 Channel List.

USED EQUIPMENT

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100906	2022.09.04	2023.09.03
Two-Line V-Network	R&S	ENV216	101189	2023.05.14	2024.05.13
Two-Line V-Network	R&S	ENV216	101044	2023.01.07	2024.01.06
Artificial Mains Network	SCHWARZBECK	NNLK 8129	8129-294	2023.02.25	2024.02.24
Impedance Stabilization Network	Teseq GmbH	ISN T800	57318	2023.03.07	2024.03.06
Impedance Stabilization Network	Teseq GmbH	ISN T8-Cat6	29680	2023.03.07	2024.03.06
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Coaxial Cable	Suhner	RG 223	TR1-C1	2023.05.14	2024.05.13
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2022.07.07	2023.07.06

Conducted Test/ TR8

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Wireless Connectivity Tester	R&S	CMW 270	102593	2023.05.20	2024.05.19
Coaxial Cable	woken	N/A	N/A	2023.02.02	2024.02.01
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2022.08.24	2023.08.23
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2022.07.07	2023.07.06
Test system					
4TX MIMO Power Sensor	Keysight	X8750A	MY59400102	2023.02.25	2024.02.24
MAX Signal Analyzer	Keysight	N9020B	MY59050482	2022.09.17	2023.09.16
Switch Box	Keysight	X8749A	N/A	N/A	N/A
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2022.08.24	2023.08.23
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2022.07.14	2023.07.13
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2022.07.14	2023.07.13
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2022.09.28	2023.09.27

Radiated Emission(9KHz-1GHz) / AC3

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2022.07.10	2023.07.09
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2022.08.28	2023.08.27
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2023.03.15	2024.03.14
Loop Antenna	R&S	HFH2-Z2	833799/003	2023.02.25	2024.02.24
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2022.07.07	2023.07.06

Radiated Emission (1GHz-40GHz) / AC5

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
MXA Signal Analyzer	Keysight	N9020B	MY60112218	2022.12.08	2023.12.07
Preamplifier	Chengyi	EMC184045SE	980263	2022.07.19	2023.07.18
DRG Horn	ETS-Lindgren	3117	00123988	2022.08.29	2023.08.28
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9170	01249	2022.09.22	2023.09.21
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2023.03.04	2024.03.03

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.80dB 150kHz~30MHz: 2.40dB
Peak Power Output	± 1.27 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.50 dB 300MHz~1GHz: 3.60 dB Vertical: 30MHz~200MHz: 3.60 dB 300MHz~1GHz: 3.50 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.00 dB Vertical: 1GHz~18GHz: 4.80 dB Horizontal: 18GHz~26.5GHz: 5.30 dB Vertical: 18GHz~26.5GHz: 4.90 dB
RF antenna conducted test	± 1.27 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 150 Hz
Occupied Bandwidth	± 1 kHz
Power Density	± 1.27 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name	LED Device
Model No.	9290036744, 9290036745, 9290036746
Trademark.	PHILIPS
FCC ID	2AGBW9290036745X
IC	20812-36745X
Manufacturer	Signify (China) Investment Co., Ltd.
Manufacturer Address.....	Building No.9, Lane 888, Tianlin Road, Minhang district, 200233, Shanghai, China.
Model difference.....	All models are identical except rated power.

Wireless specification.....	Bluetooth (LE)				
Operating frequency range(s)	2402~2480MHz				
Type of Modulation.....	GFSK				
PHYS	☒	LE 1M	☒	LE 2M	☒ LE Coded S=2/8
Data Rate	☒	1Mbit/s	☒	2Mbit/s	☒ 500/125 Kbit/s
Number of channel.....	40				

Rated power supply :	Voltage and Frequency	
	☒	AC: 100-130 Vac, 50/60 Hz
	☐	AC: 220-240 Vac, 50/60 Hz
	☐	DC: 12 V
	☐	Battery: 12 Vdc
	☒	Adapter:
Adapter :	Model: E030KPU2400125	
	INPUT: 100-130V~50/60Hz 0.8A OUTPUT: 24.0V 1.25A 30.0W	
Mounting position :	☐	Tabletop equipment
	☒	Wall/Ceiling mounted equipment
	☐	Floor standing equipment
	☐	Hand-held equipment
	☐	Other: vehicle-mounted equipment

1.2 Antenna Information

Antenna model / type number	N/A		
Antenna serial number	N/A		
Antenna Delivery	☒	1TX + 1RX	
	☐	2TX + 2RX	
	☐	Others:	
Antenna technology	☒	SISO	
	☐	MIMO	☐ CDD
			☐ Beam-forming
Antenna Type	☐	External	☐ Dipole
			☐ Sectorized
	☒	Internal	☐ Ceramic Chip
			☐ PIFA
			☒ PCB
			☐ Others.....
Antenna Gain	4.50dBi		

1.3 Channel List

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

Note: The General Description of the Item , antenna information and Channel List for the EUT in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Test Mode For Bluetooth	Mode 1: Transmit by LE_1Mbps
	Mode 2: Transmit by LE_2Mbps
	Mode 3: Transmit by LE Coded S=8
	Mode 4: Transmit by LE Coded S=2

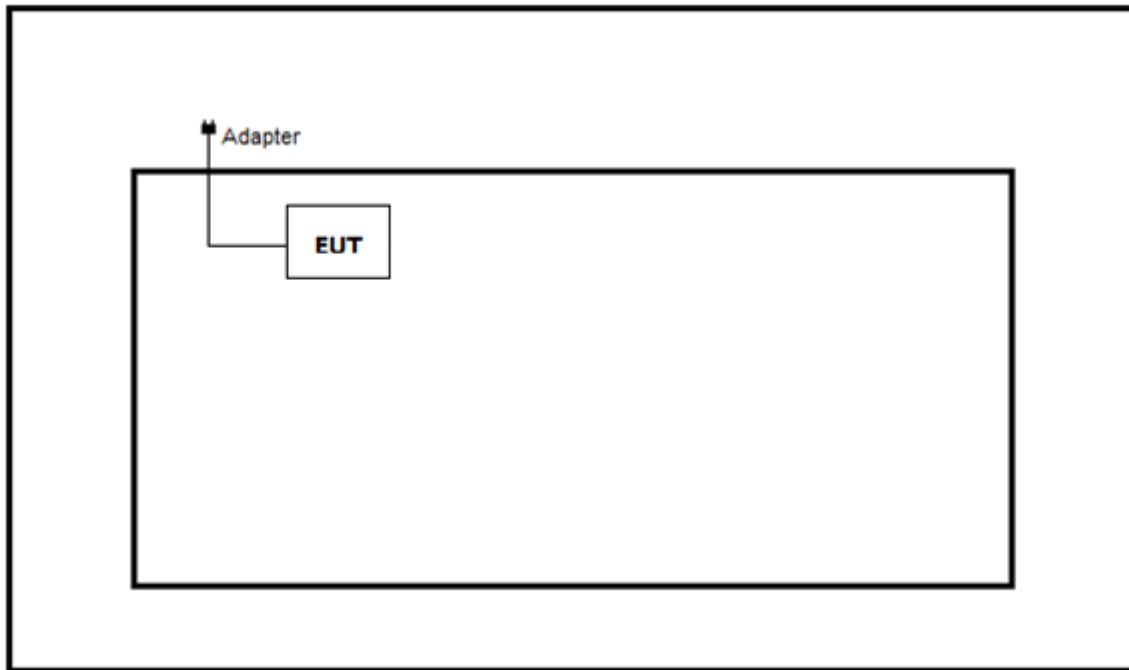
2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
HueApprobationTool	N/A	N/A	N/A

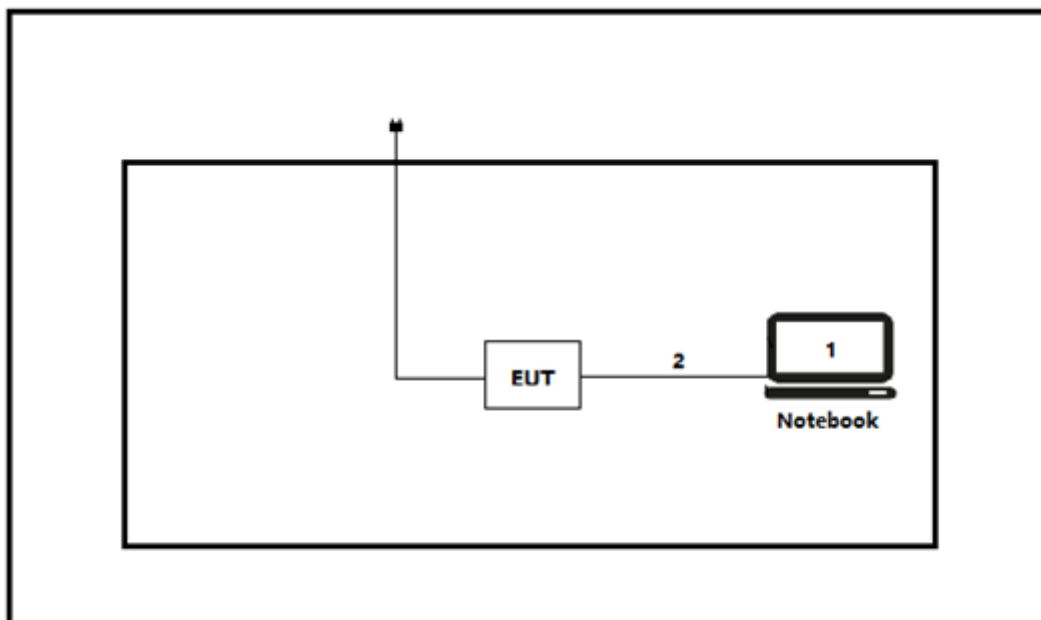
Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.3 Test Configuration / Block diagram used for tests

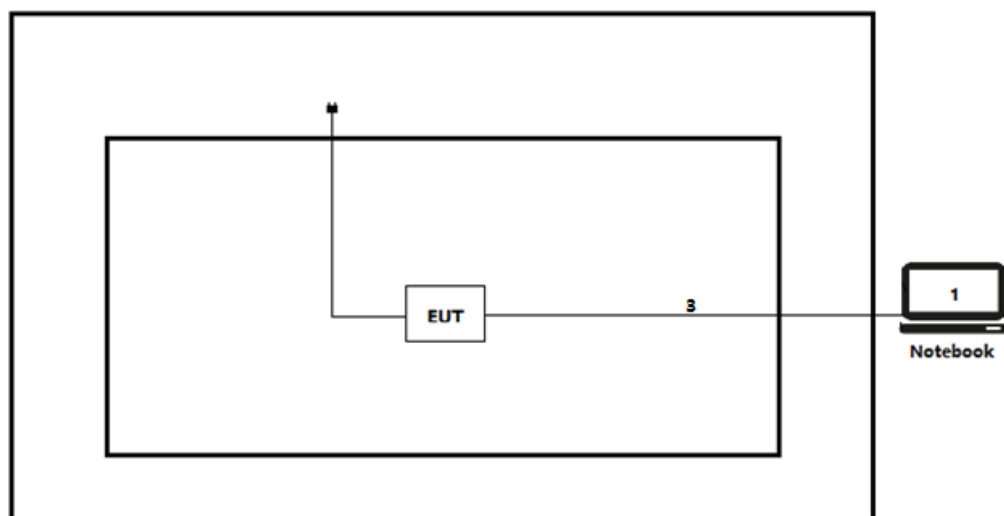
Test setup Diagram- Conducted test



Test setup Diagram- Conducted test



Test setup Diagram- Ratiated test



2.4 Testing process

1	Setup the EUT shown in Section 2.3.
2	Execute the [HueApprobationTool]on the notebook.
3	Configure the test mode, the test channel, and the data rate.
4	Verify that the EUT works properly.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2023	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
RSS-Gen Issue 5 Amendment 1	2019	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 2	2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test Item of FCC	Standard(s)	Verdict	Remark
DTS Bandwidth	FCC 15.247(a)(2)	PASS	Test data please refer to Appendix A
Maximum conducted output power	15.247 (b)(3)	PASS	Test data please refer to Appendix C
Maximum power spectral density	FCC 15.247(e)	PASS	Test data please refer to Appendix D
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix E
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	Test data please refer to Appendix F
Duty cycle	ANSI C63.10:2013	PASS	Test data please refer to Appendix G
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	Test data please refer to Appendix H
AC Power Line Conducted Emission	FCC 15.207	PASS	Test data please refer to Appendix I
Antenna Requirement	FCC 15.203	PASS	---

Requirement – Test case of ISED	Standard(s)	Verdict	Remark
DTS Bandwidth	RSS-Gen Issue 5 Paragraph 6.7 RSS-247 Issue 2 Paragraph 5.2	PASS	Test data please refer to Appendix A
Occupied Channel Bandwidth	RSS-Gen Issue 5 Paragraph 6.7 RSS-247 Issue 2 Paragraph 5.2	PASS	Test data please refer to Appendix B
Maximum conducted output power	RSS-247 Issue 2 Paragraph 5.4(d)	PASS	Test data please refer to Appendix C
Maximum power spectral density	RSS-247 Issue 2 Paragraph 5.2(b)	PASS	Test data please refer to Appendix D
Band edge measurements	RSS-Gen Issue 5 Paragraph 8.10	PASS	Test data please refer to Appendix E
Conducted Spurious Emission	RSS-247 Issue 2 Paragraph 5.5	PASS	Test data please refer to Appendix F
Duty cycle	ANSI C63.10:2013	PASS	Test data please refer to Appendix G
Emissions in Restricted Bands	RSS-Gen Issue 5 Paragraph 8.9	PASS	Test data please refer to Appendix H
AC Power Line Conducted Emission	RSS-Gen Issue 5 Paragraph 8.8	PASS	Test data please refer to Appendix I
Antenna Requirement	RSS-Gen Issue 5 Paragraph 6.8	PASS	---

3.4 Power setting in test

Mode	Channel	Frequency (MHz)	Power setting
Mode1	00	2402	6
	19	2440	6
	39	2480	6
Mode2	00	2402	6
	19	2440	6
	39	2480	6
Mode3	00	2402	6
	19	2440	6
	39	2480	6
Mode4	00	2402	6
	19	2440	6
	39	2480	6

3.5 Test Matrix

Test item	9290036744	
	1(#1)	2(#2)
DTS Bandwidth	☒	☐
Occupied Channel Bandwidth	☒	☐
Maximum conducted output power	☒	☐
Maximum power spectral density	☒	☐
Band edge measurements	☐	☒
Conducted Spurious Emission	☒	☐
Duty cycle	☒	☐
Emissions in Restricted Bands	☐	☒
AC Power Line Conducted Emission	☐	☒

3.6 Test Facility

USA	:	FCC Designation Number: CN1199
CA	:	ISED CAB identifier: CN0040

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 DTS Bandwidth

VERDICT: PASS

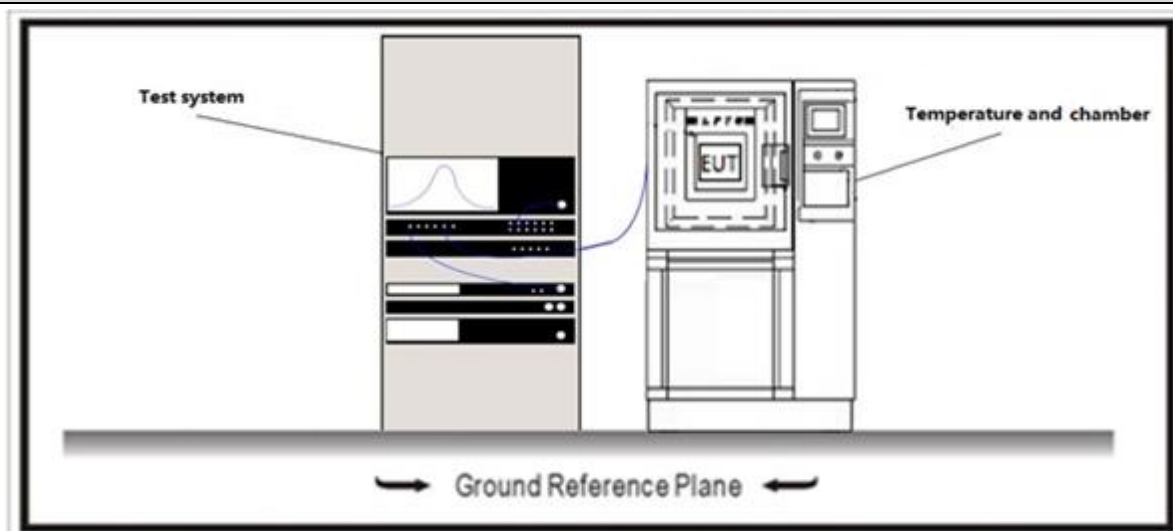
4.1.1 Limit

Standard

FCC Part 15 Subpart C Paragraph 15.247 (a)(2); RSS-247 Issue 2 Paragraph 5.2.

Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

4.1.2 Test Setup



4.1.3 Test Procedure

	Reference Rule	Chapter	Description
☒	ANSI C63.10	11.8	DTS bandwidth
☐	ANSI C63.10	11.8.1	Option 1
☒	ANSI C63.10	11.8.2	Option 2

4.2 Occupied Channel Bandwidth

VERDICT: PASS

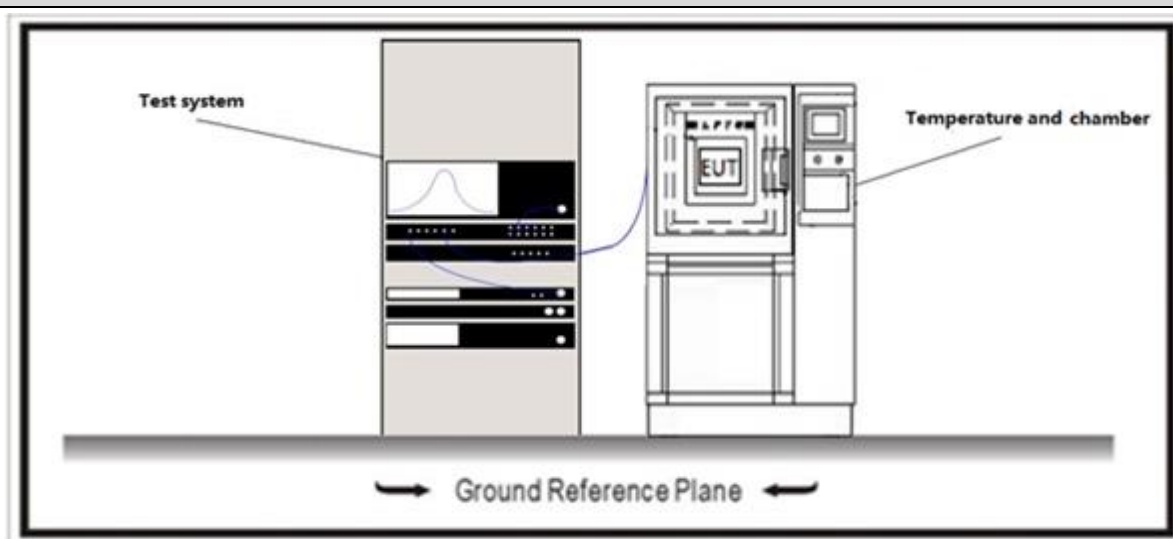
4.2.1 Limit

Standard

RSS-Gen Issue 5 Paragraph 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs

4.2.2 Test Setup



4.2.3 Test Procedure

	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☐	ANSI C63.10	11.8.1	Option 1
	☒	ANSI C63.10	11.8.2	Option 2

4.3 Maximum Conducted Output Power

VERDICT: PASS

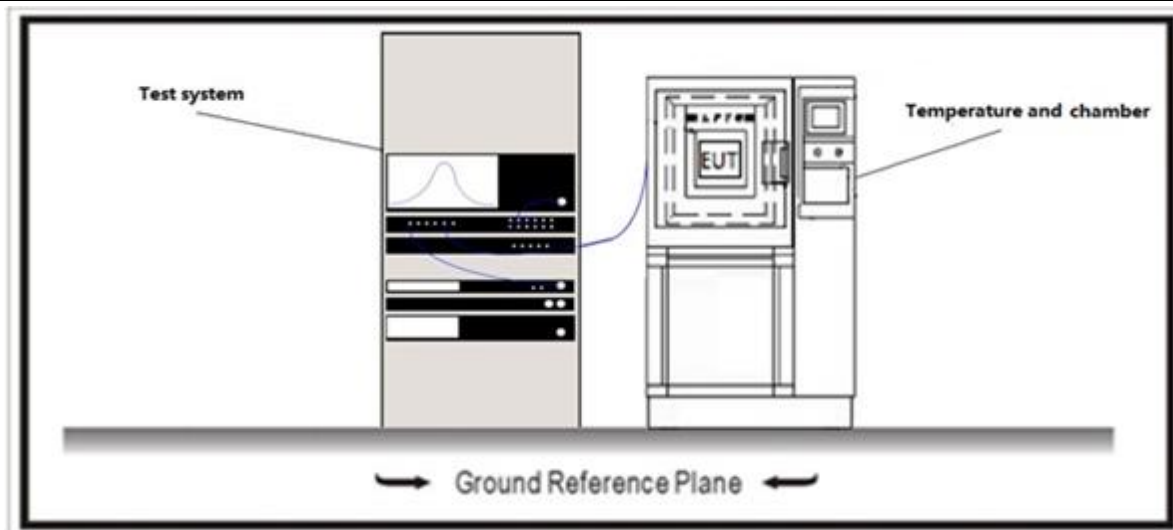
4.3.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247 (b)(3); RSS-247 Issue 2 Paragraph 5.4(d).
☒	GTX < 6dBi	Pout≤30dBm
☐	GTX > 6dBi	
☐	Non-Fix point-point	Pout≤30-(GTX -6)
☐	Fix point-point	Pout≤30-[(GTX-6)]/3
☐	Point-to-multipoint	Pout≤30-(GTX-6)
☐	Overlap Beams	Pout≤30-[(GTX-6)]/3
☐	Aggregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
☐	single directional beam	Pout≤30-[(GTX-6)]/3+8dB

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum peak conducted output power .

4.3.2 Test Setup



4.3.3 Test Procedure

	References Rule			Chapter	Description		
☒	ANSI C63.10			11.9	Fundamental emission output power		
	☒	ANSI C63.10			11.9.1	Maximum peak conducted output power	
		☐	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth		
		☐	ANSI C63.10	11.9.1.2	Integrated band power method		
		☐	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method		
	☐	ANSI C63.10			11.9.2	Maximum conducted (average) output power	
		☐	ANSI C63.10			11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle ≥98%)	
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle ≥98%)	
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle ≤98%)	
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle ≤98%)	
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3	
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A	
		☒	ANSI C63.10			11.9.2.3	Measurement using a power meter (PM)
			☒	ANSI C63.10	11.9.2.3.1	Method AVGPM	
			☐	ANSI C63.10	11.9.2.3.2	Method AVGPM-G	

4.4 Maximum Power Spectral Density

VERDICT: PASS

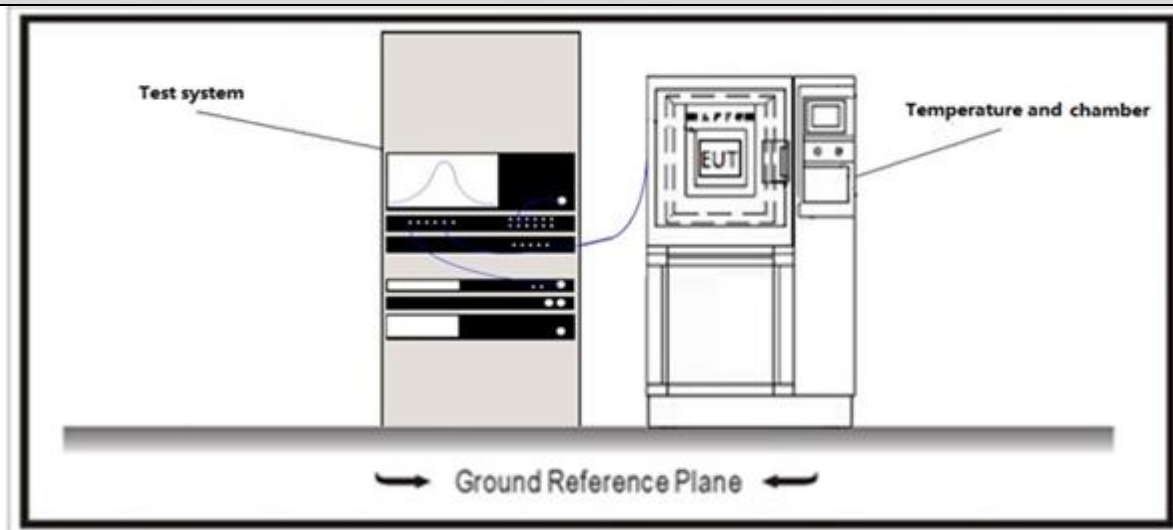
4.4.1 Limit

Standard

 FCC Part 15 Subpart C Paragraph 15.247 (b)(3);
 RSS-247 Issue 2 Paragraph 5.2(b).

 Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$

4.4.2 Test Setup



4.4.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☒	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle $\geq 98\%$)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle $\geq 98\%$)
	☐	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle $< 98\%$)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle $< 98\%$)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

4.5 Band Edge Measurements

VERDICT: PASS

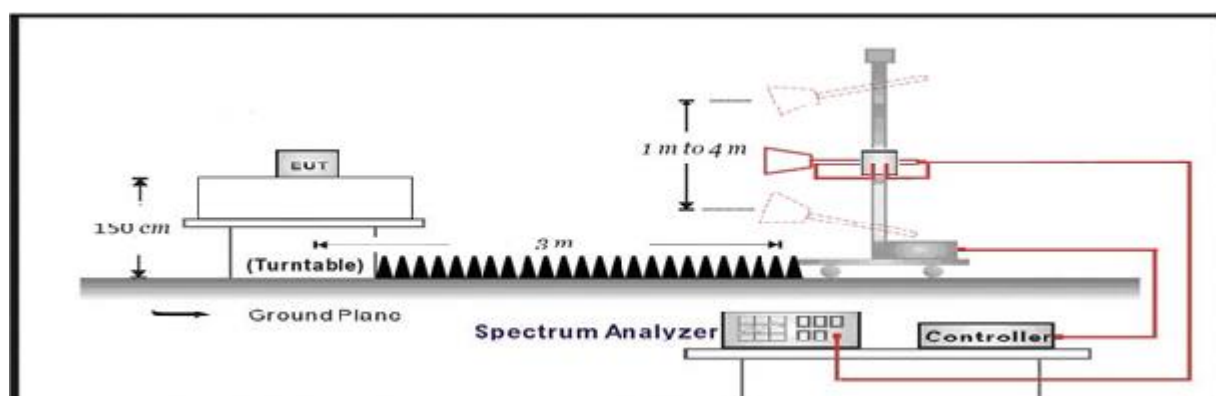
4.5.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209; RSS-Gen Issue 5 Paragraph 8.10.		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.5.2 Test Setup

Above 1GHz Test Setup:



4.5.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	6.10	Band-edge testing
☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
☐	ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10	11.12	Emissions in restricted frequency bands
☒	ANSI C63.10	11.12.1	Radiated emission measurements
☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.6 Conducted Spurious Emission

VERDICT: PASS

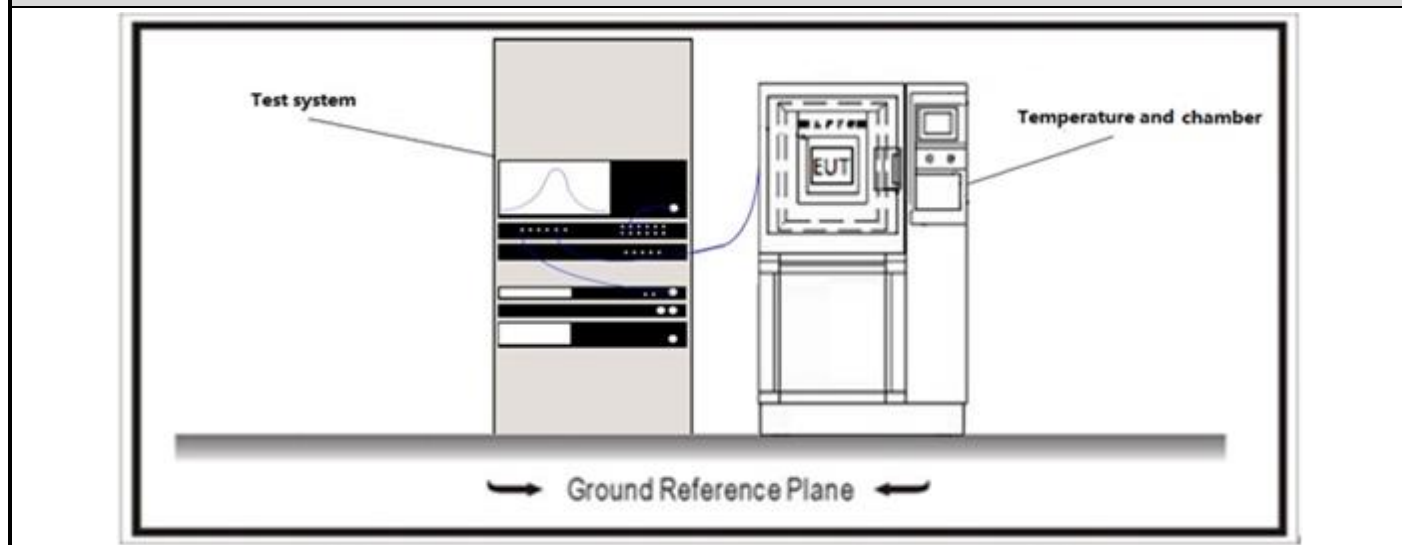
4.6.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d); RSS-247 Issue 2 Paragraph 5.5.
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.6.2 Test Setup



4.6.3 Test Procedure

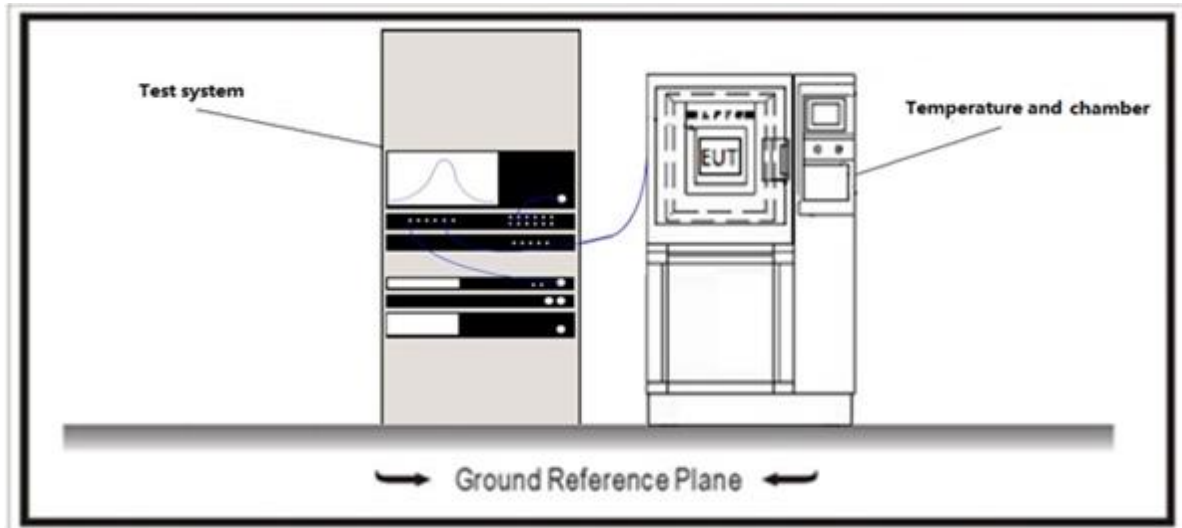
References Rule	Chapter	Description
☒ ANSI C63.10	11.11	Emissions in non-restricted frequency bands
☒ ANSI C63.10	11.11.1	General
☒ ANSI C63.10	11.11.2	Reference level measurement
☒ ANSI C63.10	11.11.3	Emission level measurement

4.7 Duty cycle	VERDICT: PASS
-----------------------	----------------------

4.7.1 Limit

N/A

4.7.2 Test Setup



4.7.3 Test Procedure

References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.8 Emissions in Restricted Bands**VERDICT: PASS****4.8.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

Standard

RSS-Gen Issue 5 Paragraph 8.10

Restricted Bands of operation for IC

0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614	--	

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	$2400/F(\text{kHz})$	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	$24000/F(\text{kHz})$	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

RSS-Gen Issue 5 Paragraph 8.9.

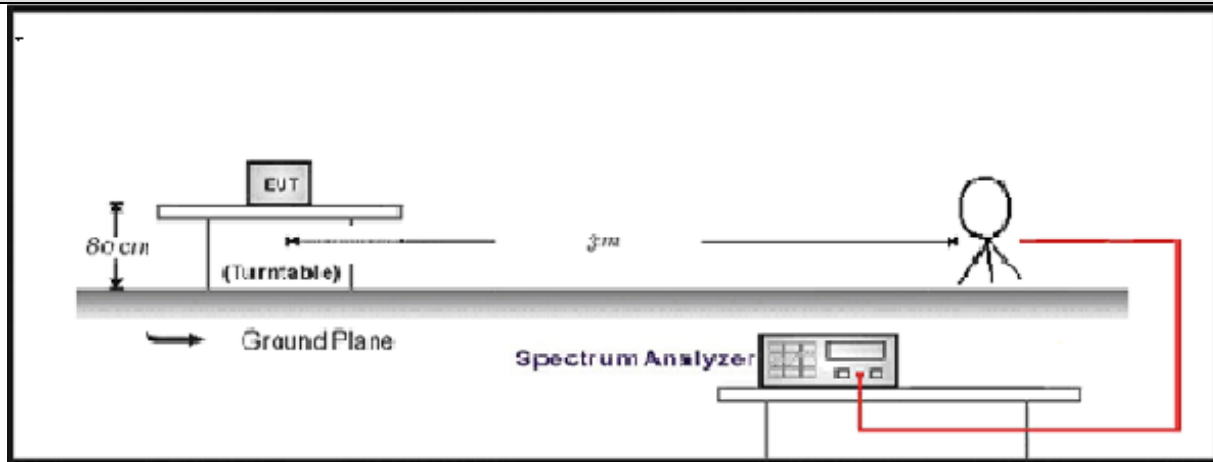
Frequency (MHz)	Field strength	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.49	$6.37/F(\text{kHz}) \mu\text{A/m}$	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	$63.7/F(\text{kHz}) \mu\text{A/m}$	33.8 - 23	30 _(Note 1)
1.705 - 30	30 $\mu\text{V/m}$	29.5	30 _(Note 1)
30 - 88	100 $\mu\text{V/m}$	40	3 _(Note 2)
88 - 216	150 $\mu\text{V/m}$	43.5	3 _(Note 2)
216 - 960	200 $\mu\text{V/m}$	46	3 _(Note 2)
Above 960	500 $\mu\text{V/m}$	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

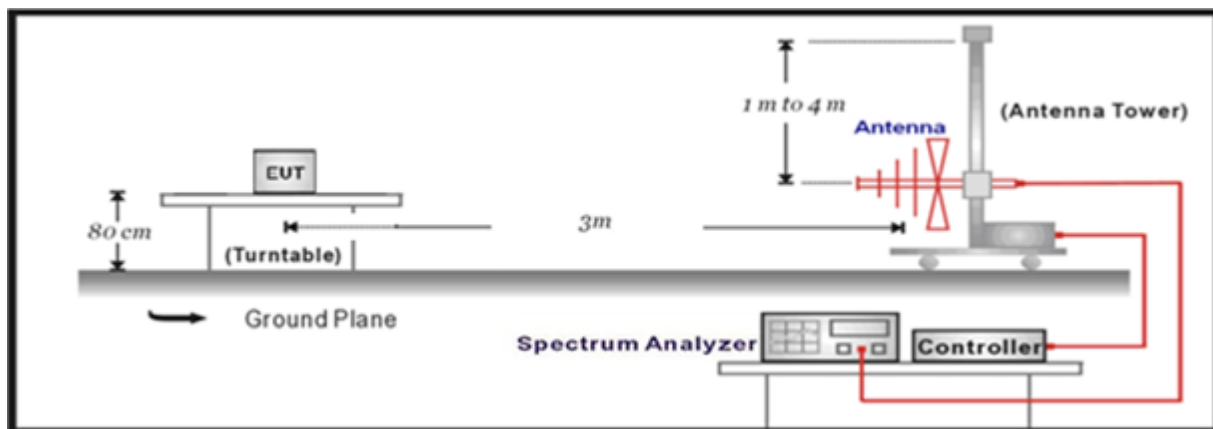
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.8.2 Test Setup

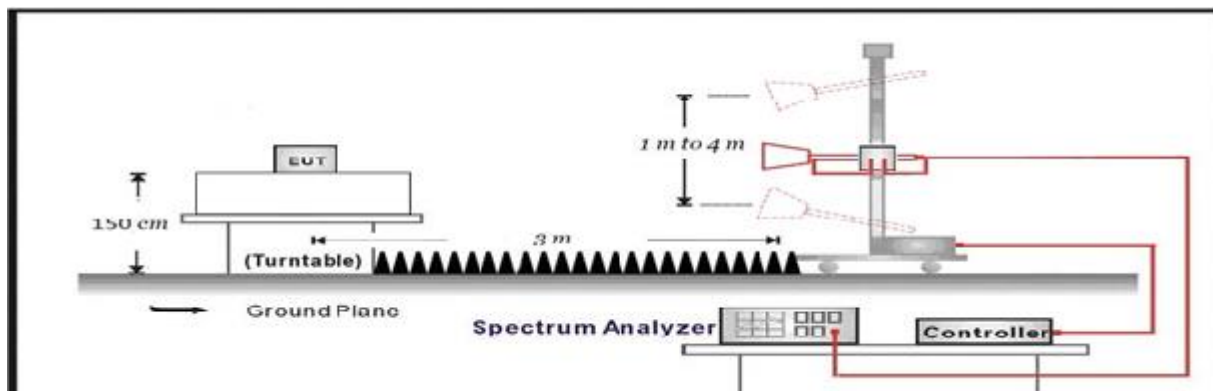
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.8.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.9 AC Power Line Conducted Emission

VERDICT: PASS

4.9.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207; RSS-Gen Issue 5 Paragraph 8.8.	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

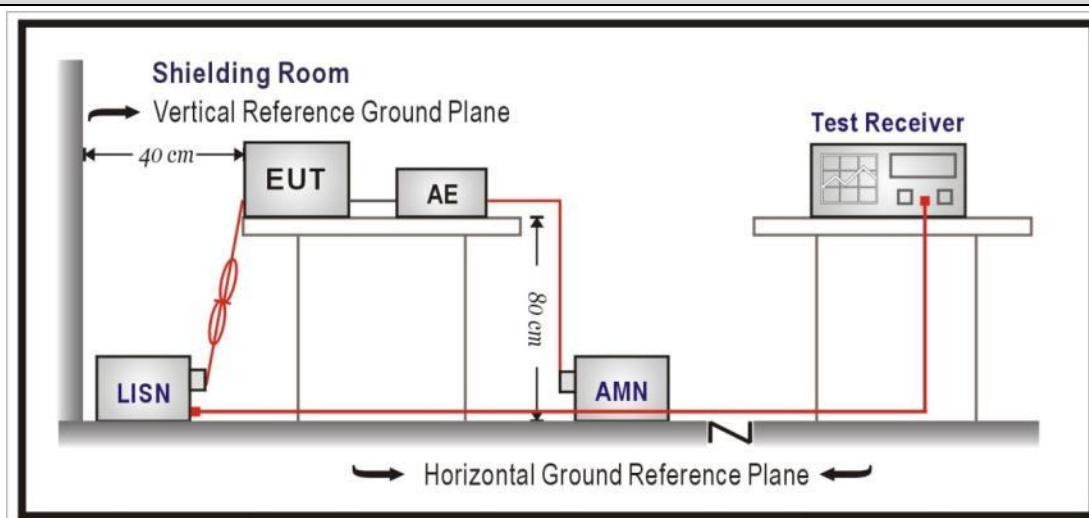
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.9.2 Test Setup



4.9.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.10 Antenna Requirement**VERDICT: PASS****4.10.1 Limit:****Standard**FCC Part 15 Subpart C Paragraph 15.203;
RSS-Gen Issue 5 Paragraph 6.8.

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.10.2 Antenna Connector Construction:

☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



BLE_500K_Ant1_2480



Appendix B: Occupied Channel Bandwidth

TestMode	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	2402	1.0307	2401.4864	2402.5171
	2440	1.0350	2439.4828	2440.5178
	2480	1.0354	2479.4825	2480.5179
BLE_2M	2402	2.1183	2400.9553	2403.0736
	2440	2.1165	2438.9556	2441.0721
	2480	2.1237	2478.9509	2481.0746
BLE_125K	2402	1.1250	2401.4349	2402.5599
	2440	1.1214	2439.4366	2440.5580
	2480	1.1201	2479.4367	2480.5568
BLE_500K	2402	1.0952	2401.4513	2402.5465
	2440	1.0957	2439.4521	2440.5478
	2480	1.0870	2479.4579	2480.5449

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440



BLE_500K_Ant1_2480



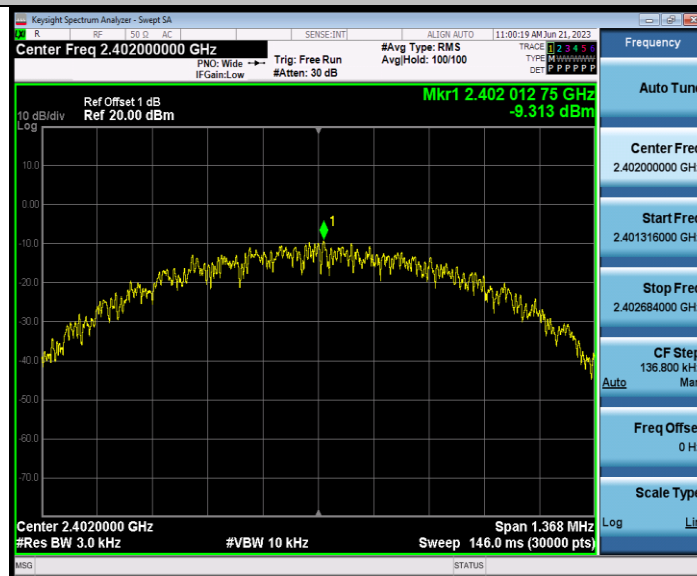
Appendix C: Maximum conducted output power

TestMode	Frequency[MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	2402	5.72	≤30	10.22	≤36	PASS
	2440	6.43	≤30	10.93	≤36	PASS
	2480	6.60	≤30	11.10	≤36	PASS
BLE_2M	2402	5.89	≤30	10.39	≤36	PASS
	2440	6.12	≤30	10.62	≤36	PASS
	2480	6.27	≤30	10.77	≤36	PASS
BLE_125K	2402	6.18	≤30	10.68	≤36	PASS
	2440	6.40	≤30	10.90	≤36	PASS
	2480	6.56	≤30	11.06	≤36	PASS
BLE_500K	2402	6.21	≤30	10.71	≤36	PASS
	2440	6.46	≤30	10.96	≤36	PASS
	2480	6.55	≤30	11.05	≤36	PASS

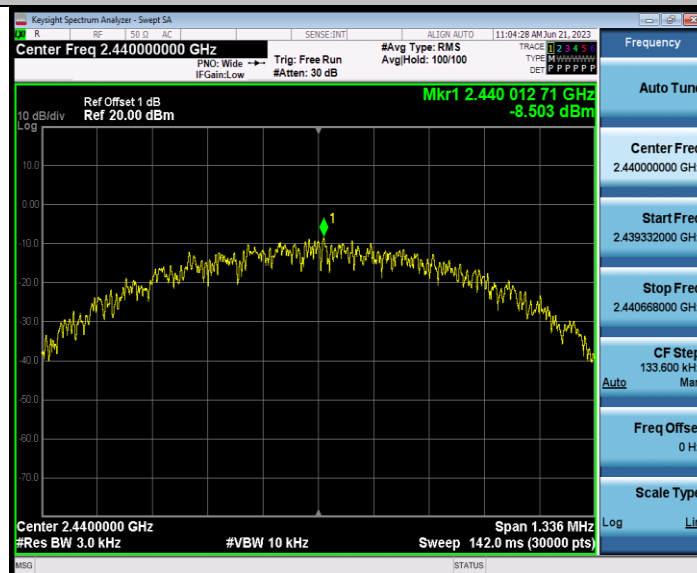
Appendix D: Maximum power spectral density

TestMode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	2402	-9.31	≤8.00	PASS
	2440	-8.50	≤8.00	PASS
	2480	-8.37	≤8.00	PASS
BLE_2M	2402	-11.29	≤8.00	PASS
	2440	-11.08	≤8.00	PASS
	2480	-10.89	≤8.00	PASS
BLE_125K	2402	0.88	≤8.00	PASS
	2440	1.08	≤8.00	PASS
	2480	1.27	≤8.00	PASS
BLE_500K	2402	-11.08	≤8.00	PASS
	2440	-10.84	≤8.00	PASS
	2480	-10.67	≤8.00	PASS

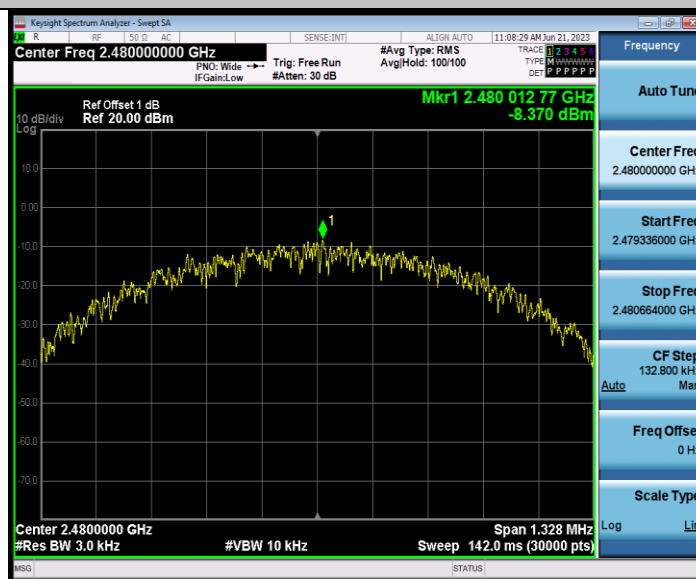
BLE_1M_Ant1_2402



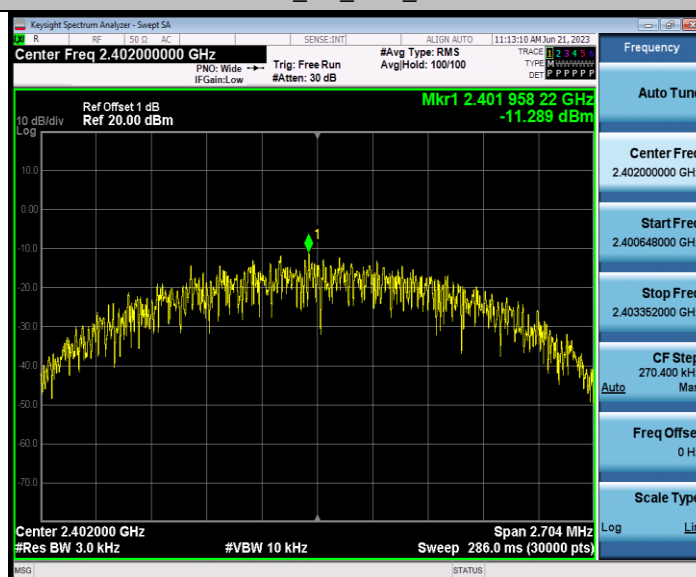
BLE_1M_Ant1_2440



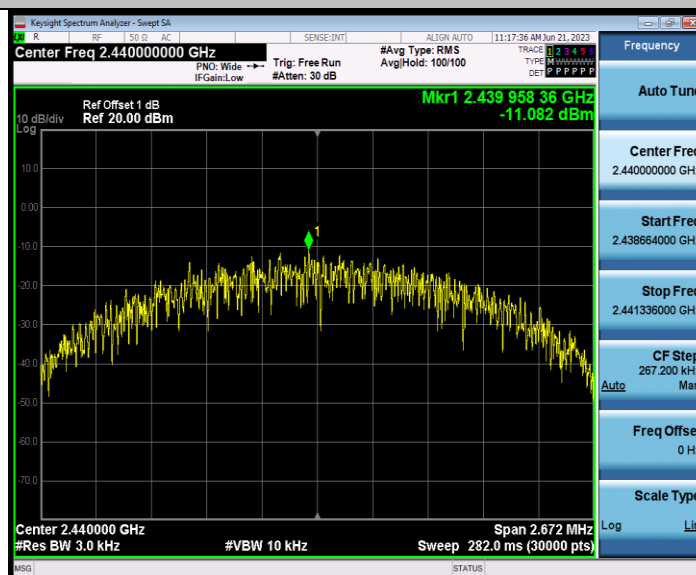
BLE_1M_Ant1_2480



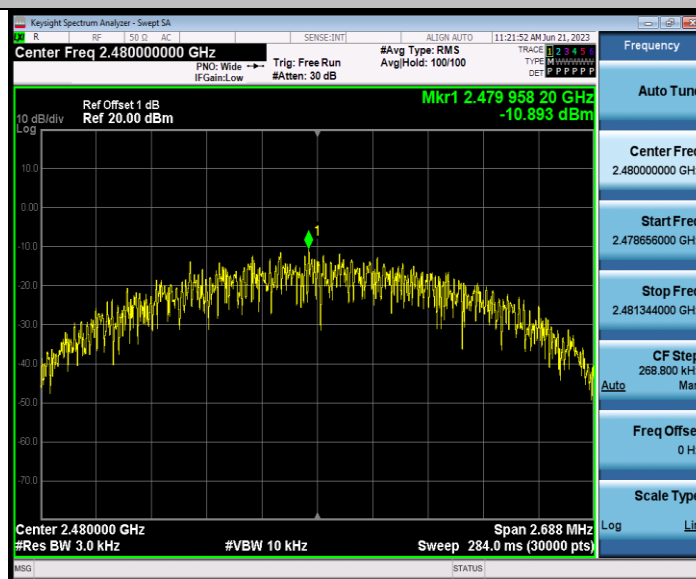
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



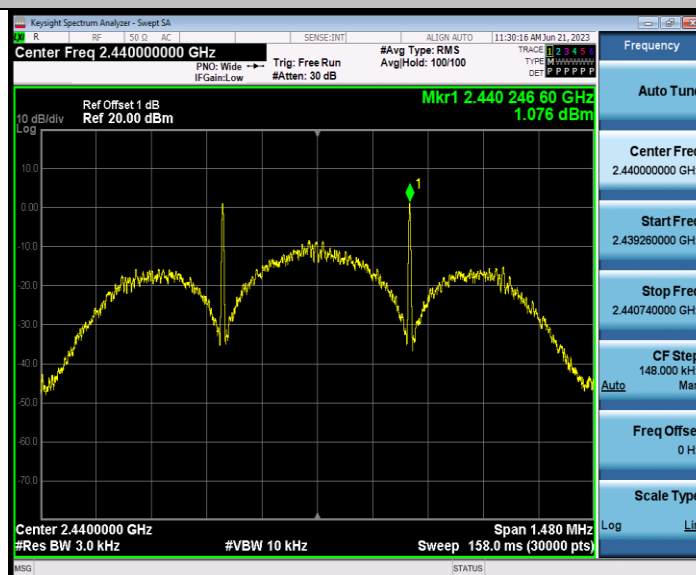
BLE_2M_Ant1_2480



BLE_125K_Ant1_2402



BLE_125K_Ant1_2440



BLE_125K_Ant1_2480



BLE_500K_Ant1_2402



BLE_500K_Ant1_2440

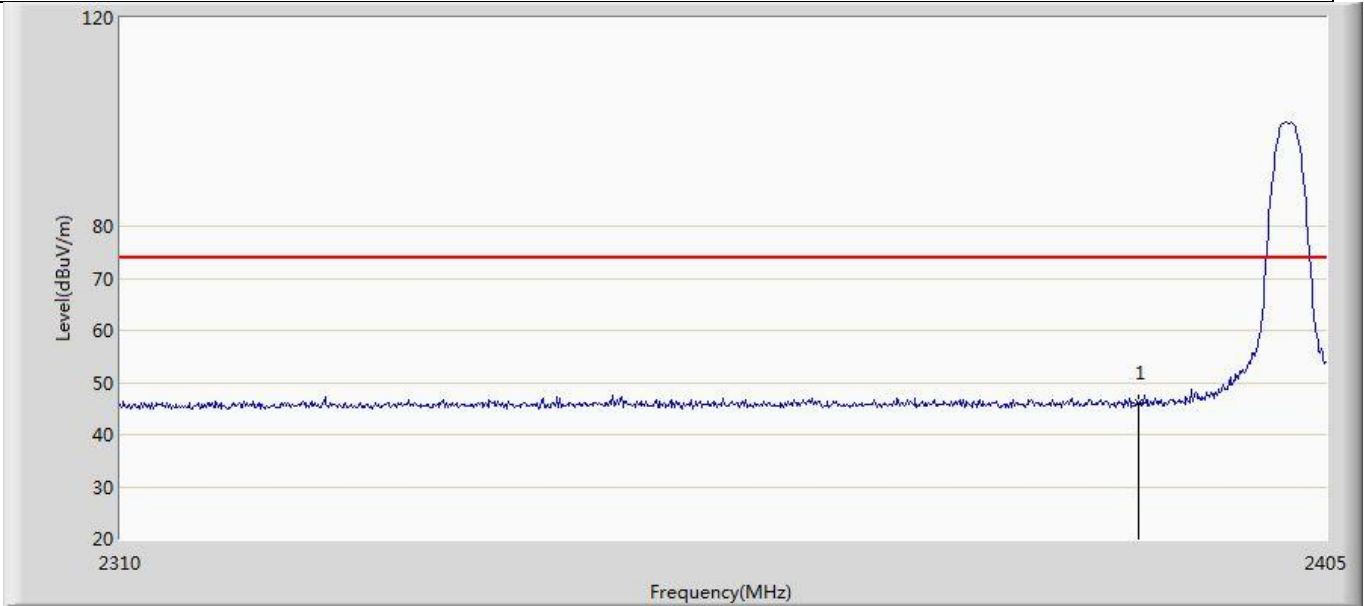


BLE_500K_Ant1_2480



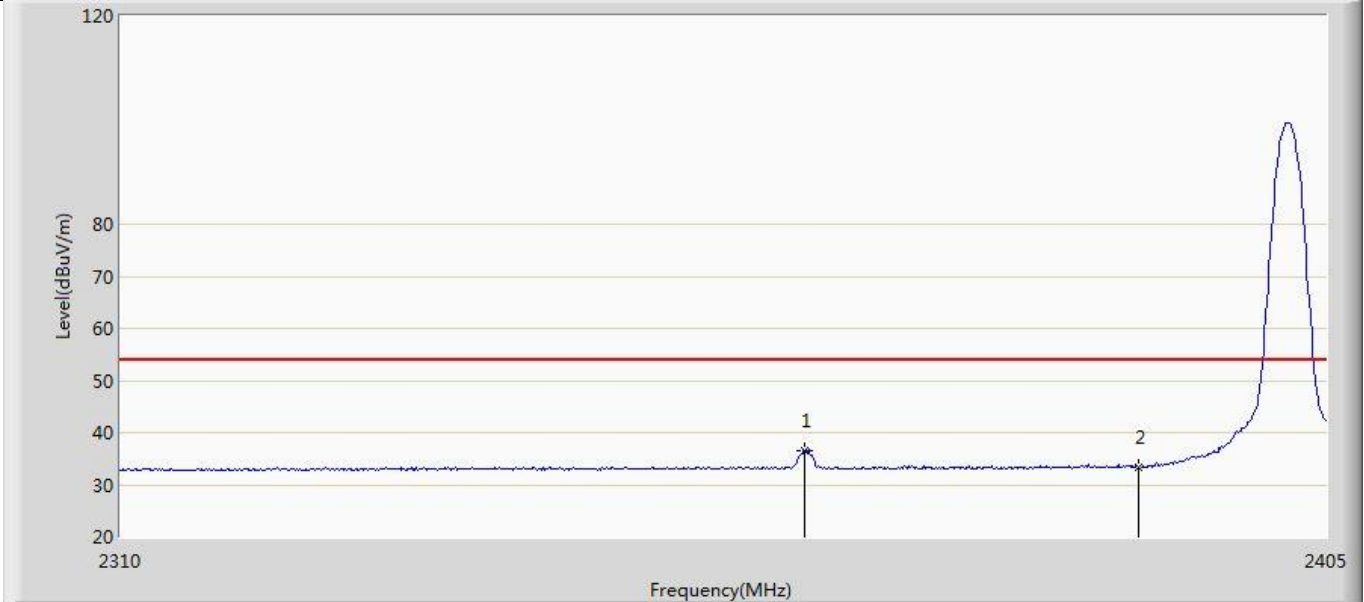
Appendix E: Band edge measurements

Profile: 2350756R	Page No.: 1
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2402MHz by LE_1Mbps	



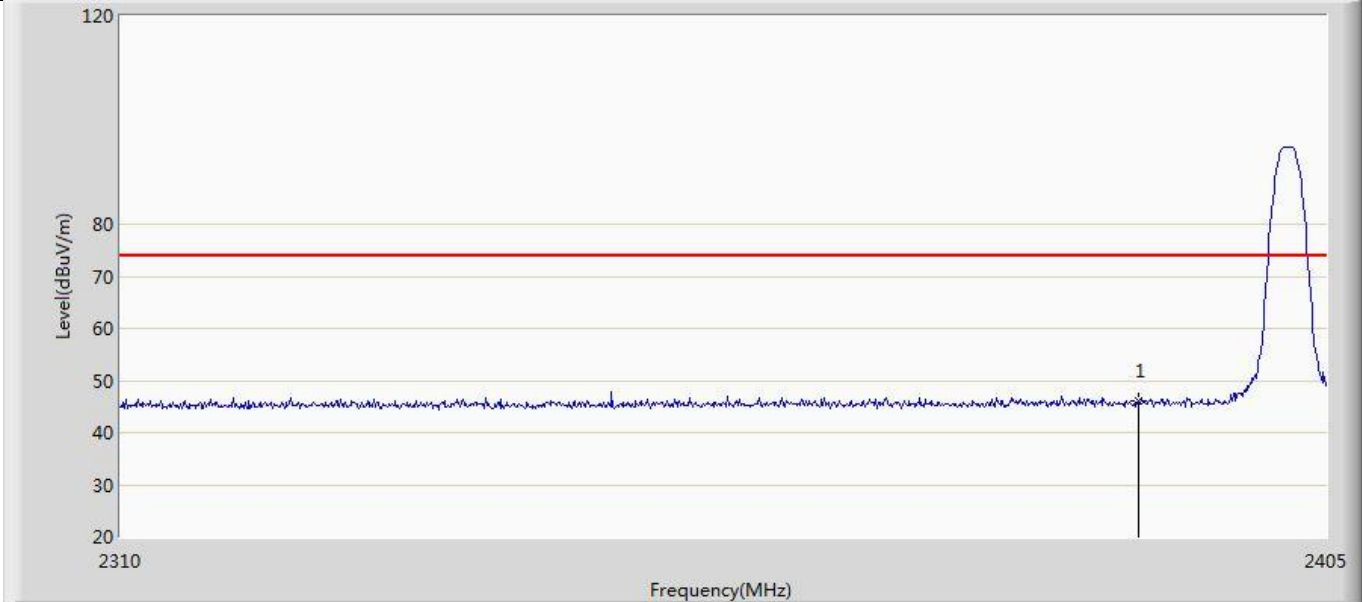
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	46.185	12.072	-27.815	74.000	34.113	PK

Profile: 2350756R	Page No.: 2
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2402MHz by LE_1Mbps	



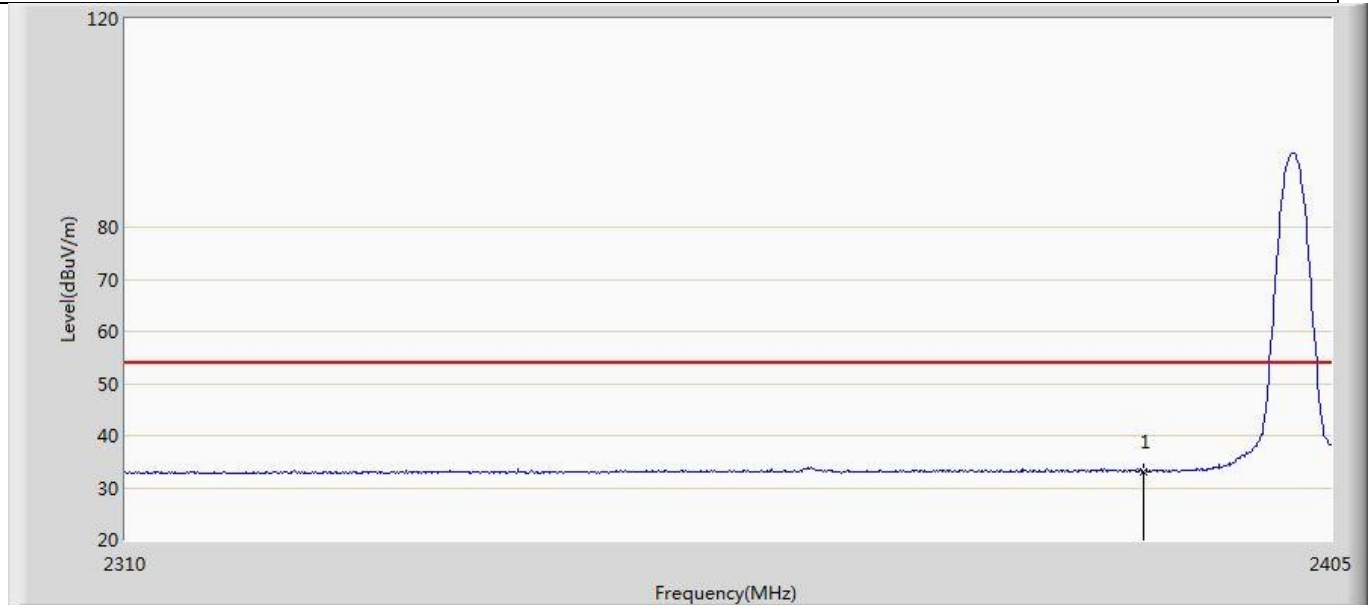
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2363.485	36.620	2.633	-17.380	54.000	33.986	AV
2		2390.000	33.450	-0.663	-20.550	54.000	34.113	AV

Profile: 2350756R	Page No.: 3
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2402MHz by LE_1Mbps	



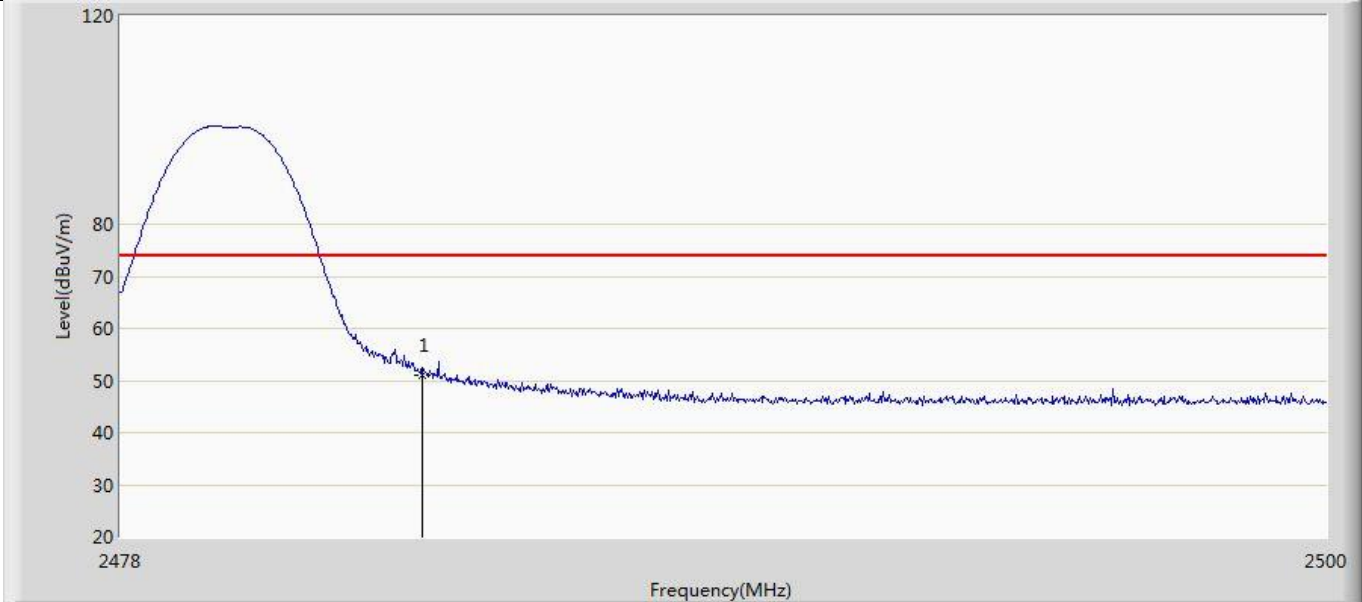
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	46.058	11.945	-27.942	74.000	34.113	PK

Profile: 2350756R	Page No.: 4
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2402MHz by LE_1Mbps	



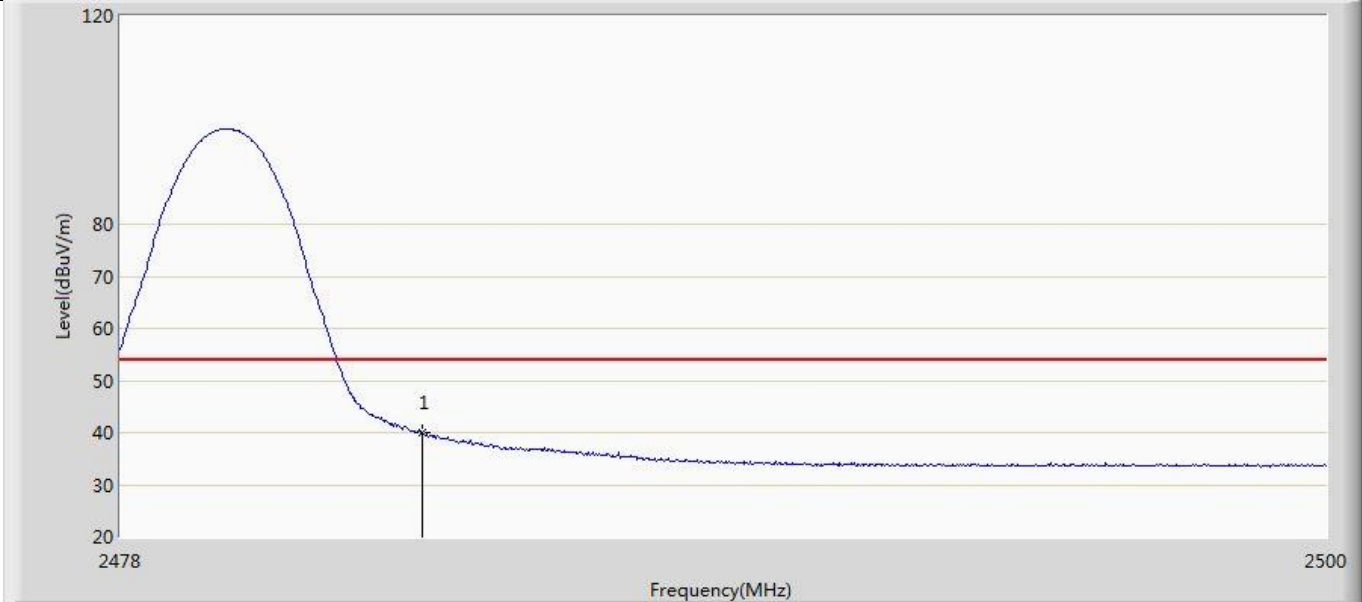
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.171	-0.942	-20.829	54.000	34.113	AV

Profile: 2350756R	Page No.: 5
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by LE_1Mbps	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.129	16.613	-22.871	74.000	34.516	PK

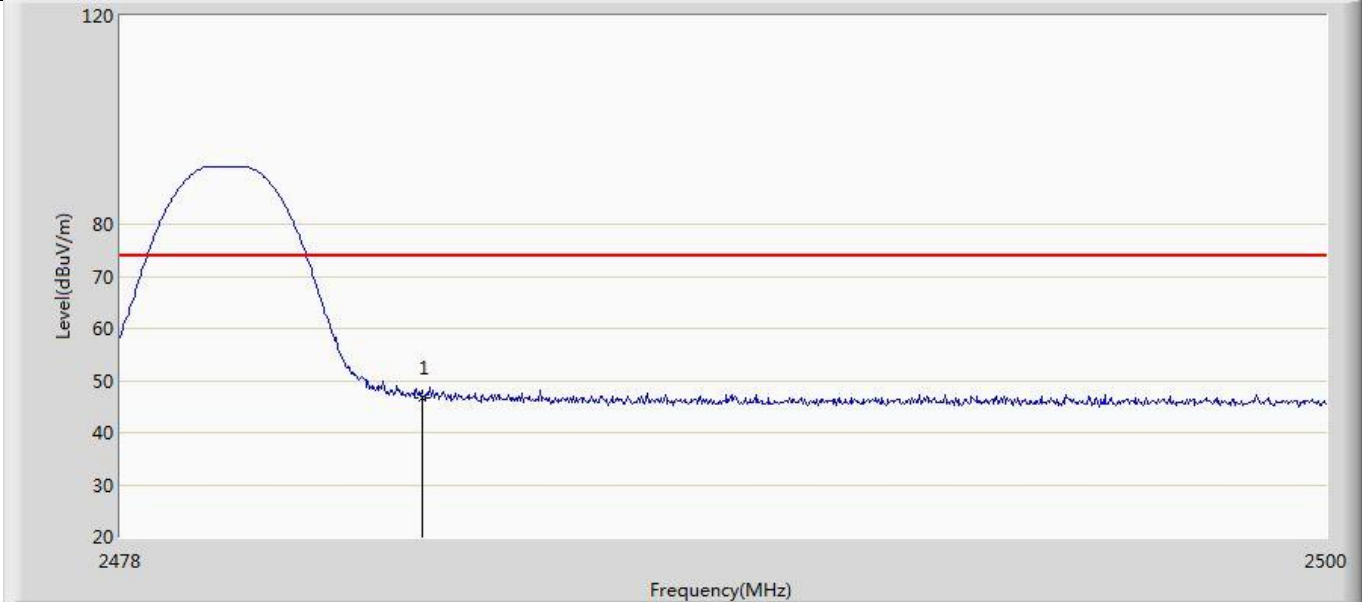
Profile: 2350756R	Page No.: 6
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by LE_1Mbps	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.092	5.576	-13.908	54.000	34.516	AV

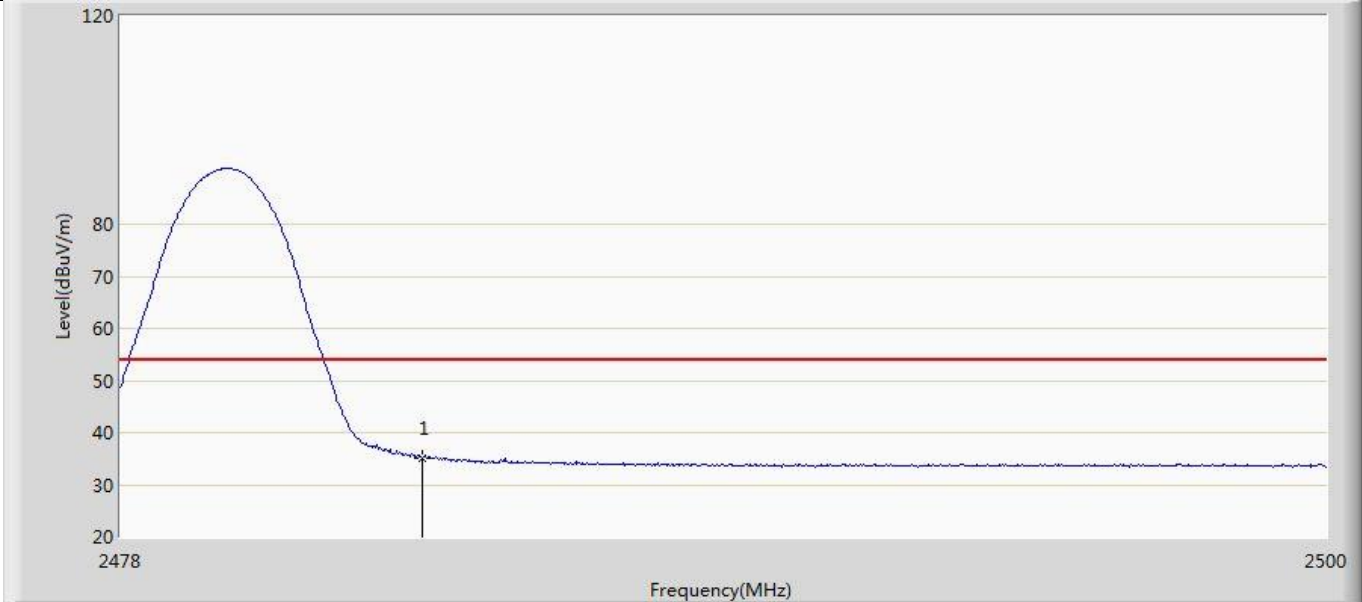


Profile: 2350756R	Page No.: 7
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by LE_1Mbps	



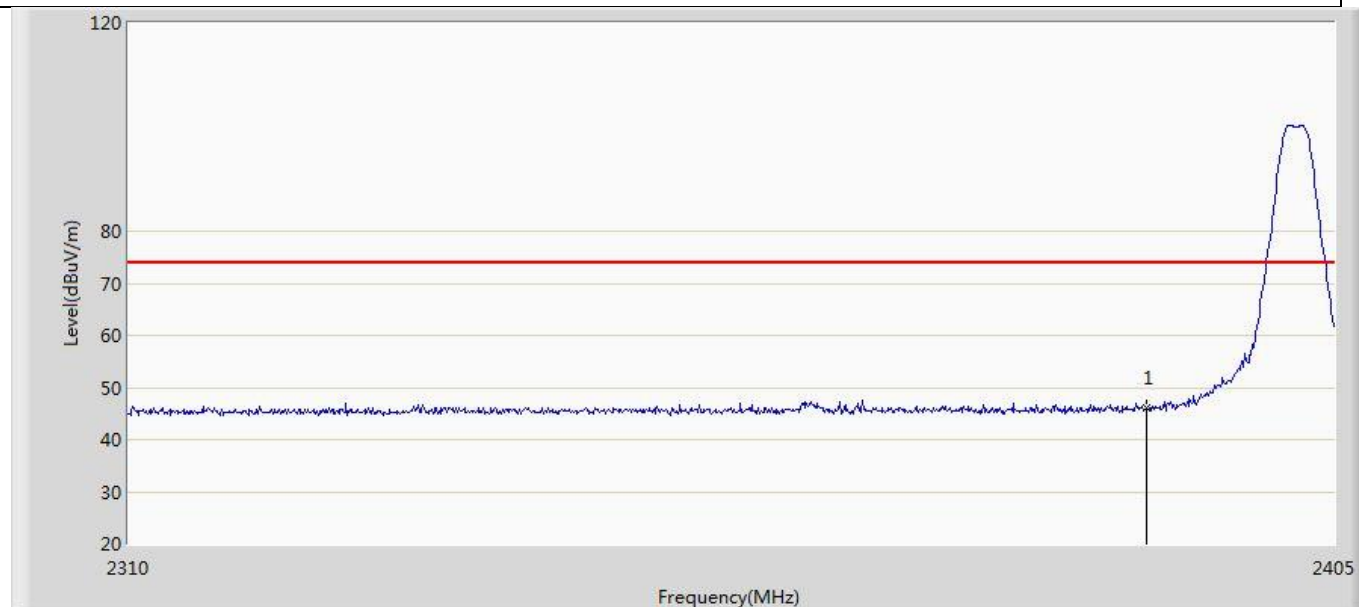
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	46.725	12.209	-27.275	74.000	34.516	PK

Profile: 2350756R	Page No.: 8
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 1 : Transmit at 2480MHz by LE_1Mbps	



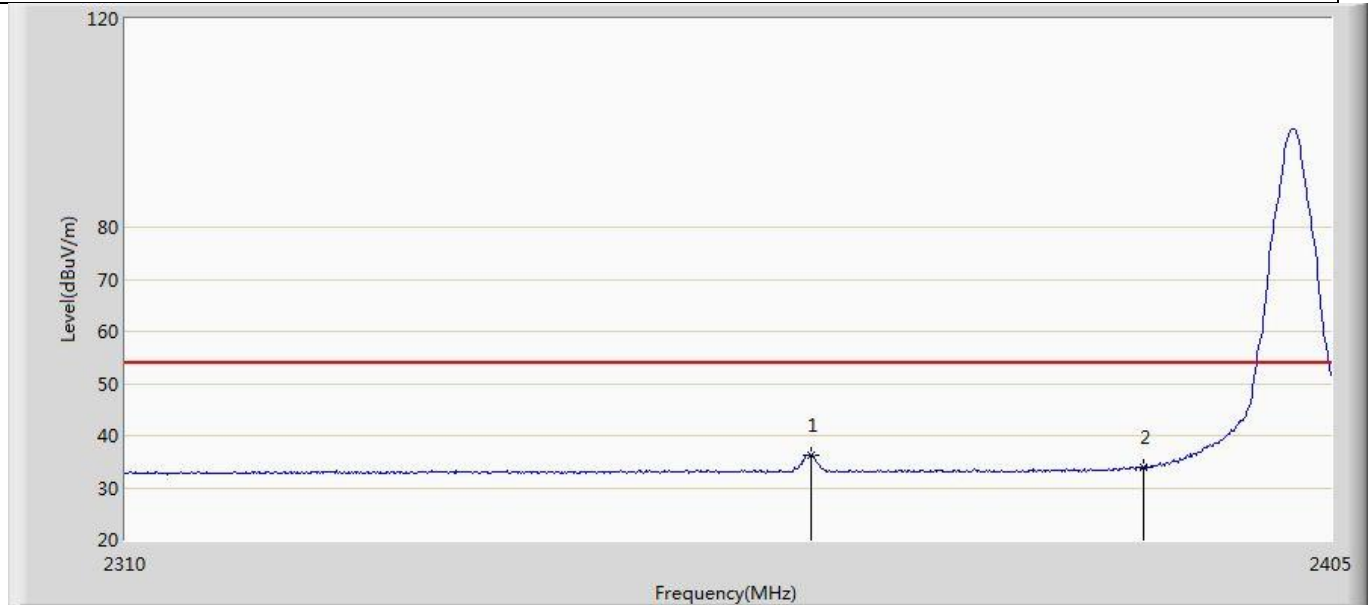
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.171	0.655	-18.829	54.000	34.516	AV

Profile: 2350756R	Page No.: 9
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2402MHz by LE_2Mbps	



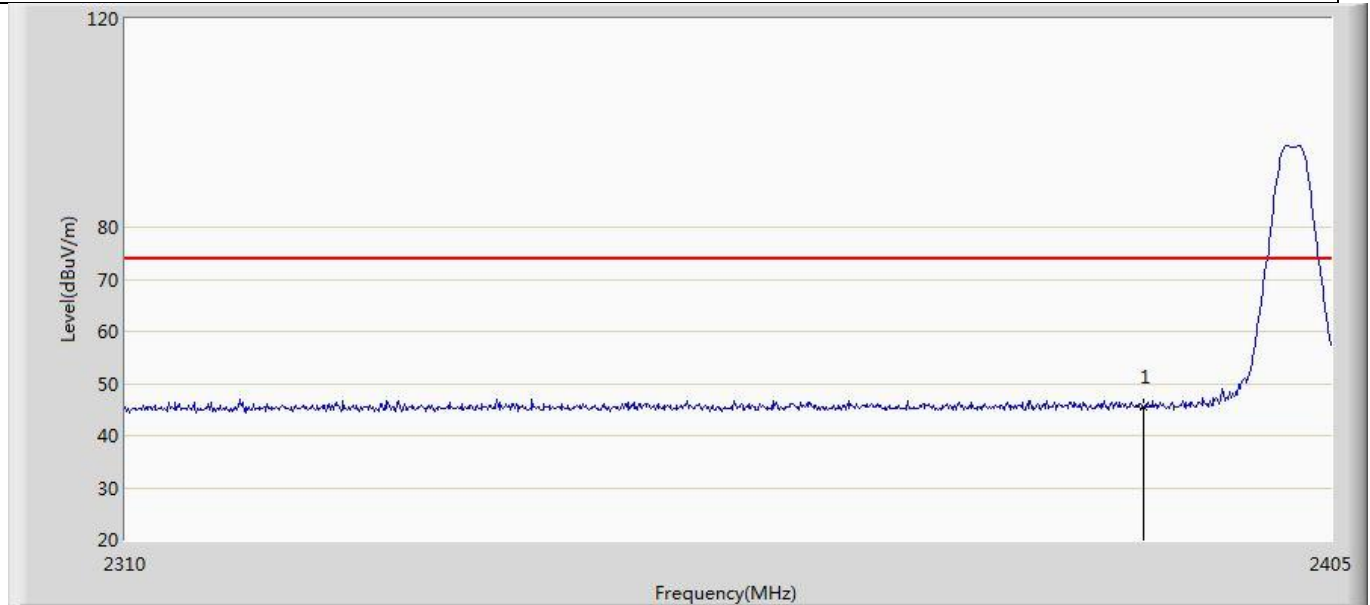
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.993	11.880	-28.007	74.000	34.113	PK

Profile: 2350756R	Page No.: 10
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 10:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2402MHz by LE_2Mbps	



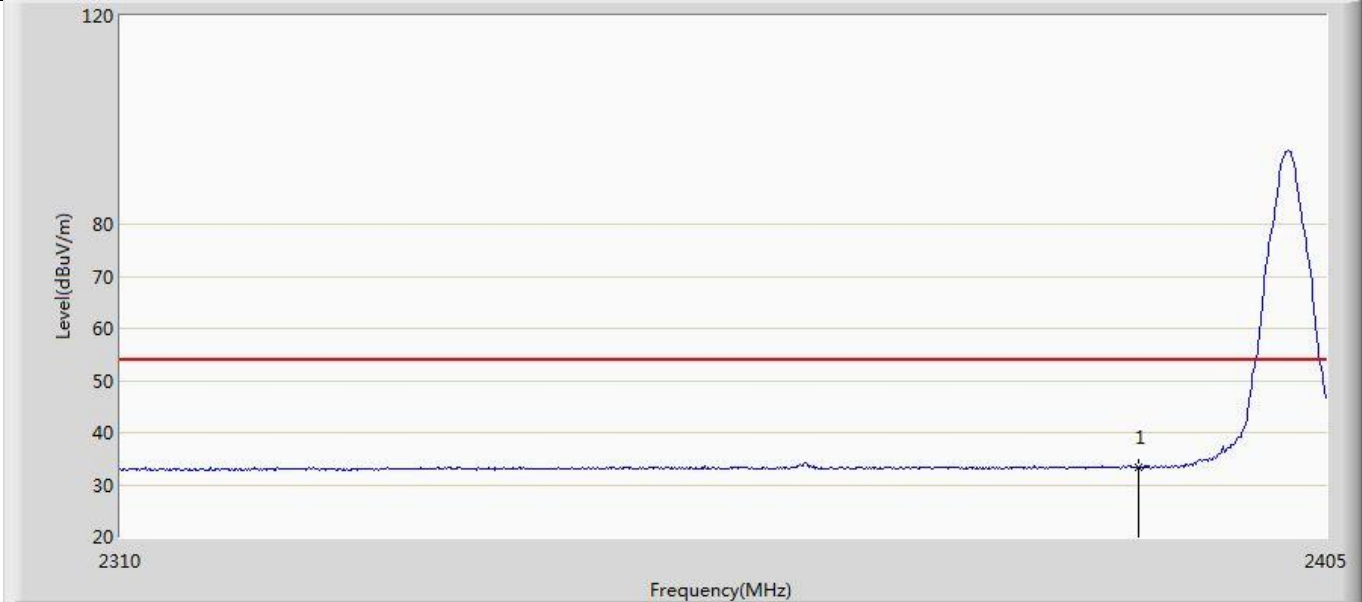
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2363.580	36.342	2.355	-17.658	54.000	33.987	AV
2		2390.000	33.965	-0.148	-20.035	54.000	34.113	AV

Profile: 2350756R	Page No.: 11
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2402MHz by LE_2Mbps	



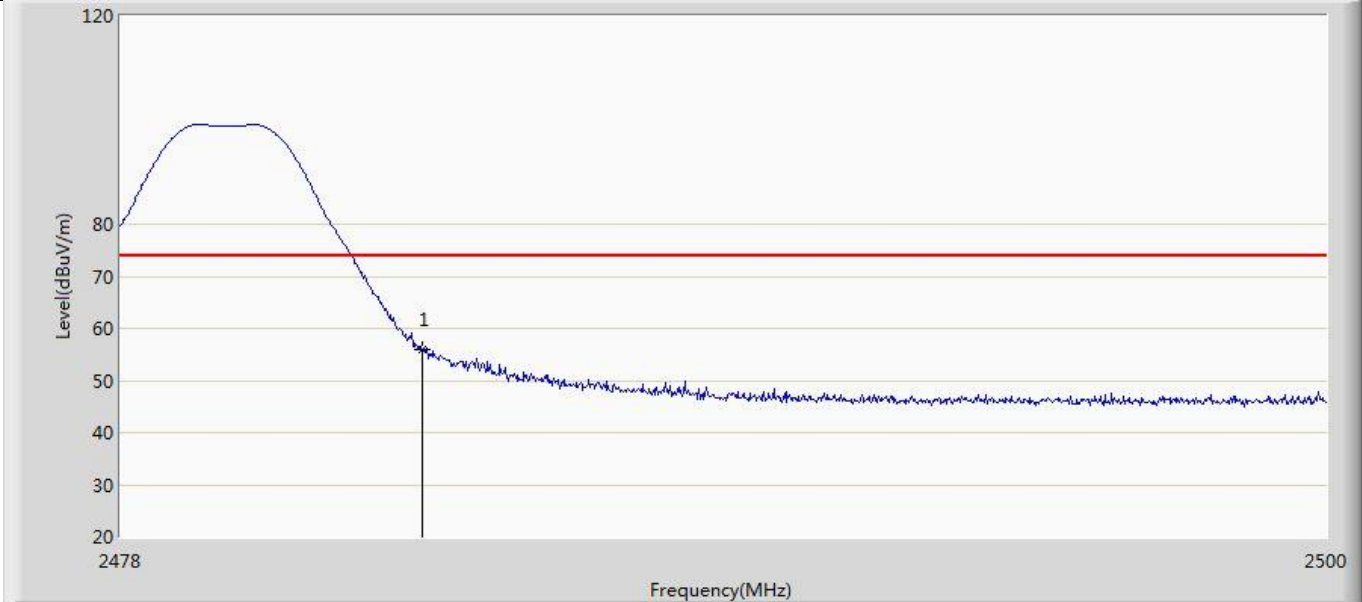
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.502	11.389	-28.498	74.000	34.113	PK

Profile: 2350756R	Page No.: 12
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2402MHz by LE_2Mbps	



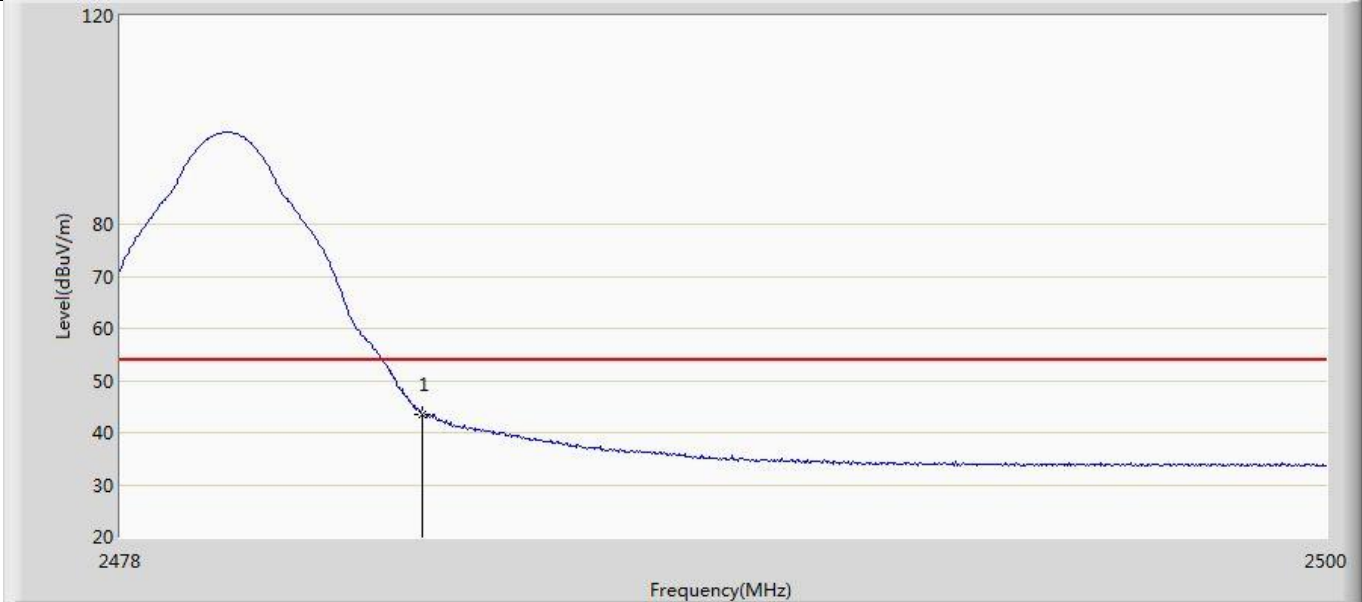
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.382	-0.731	-20.618	54.000	34.113	AV

Profile: 2350756R	Page No.: 13
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2480MHz by LE_2Mbps	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	56.074	21.558	-17.926	74.000	34.516	PK

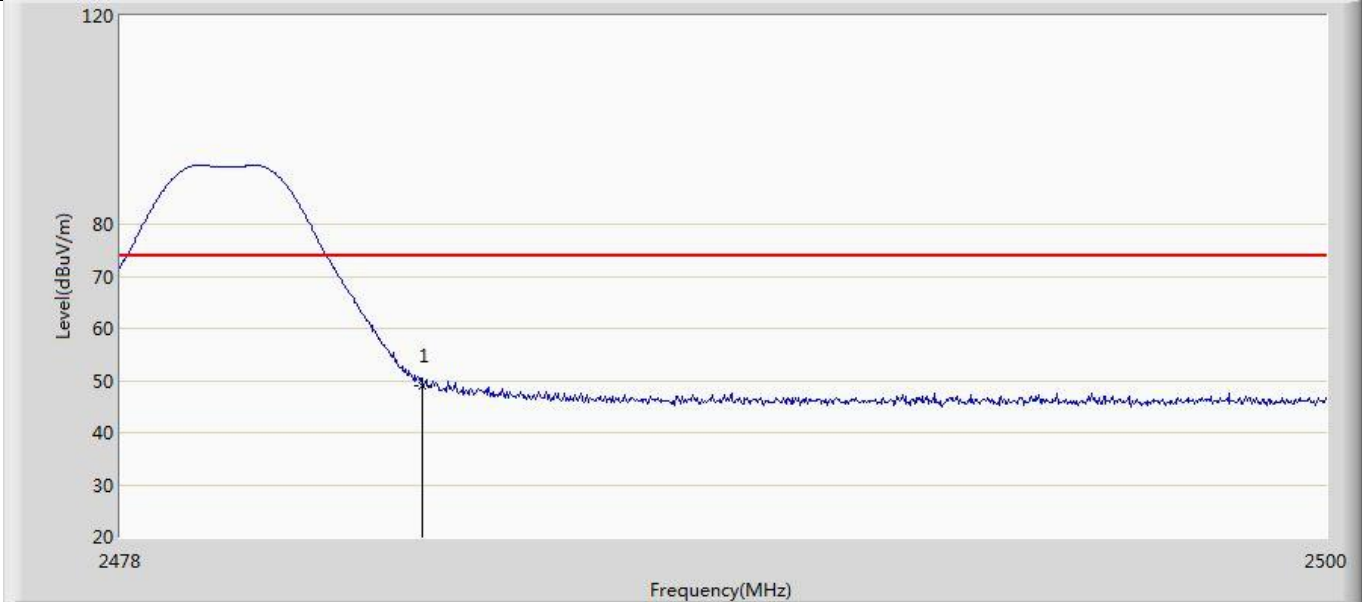
Profile: 2350756R	Page No.: 14
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2480MHz by LE_2Mbps	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	43.586	9.070	-10.414	54.000	34.516	AV

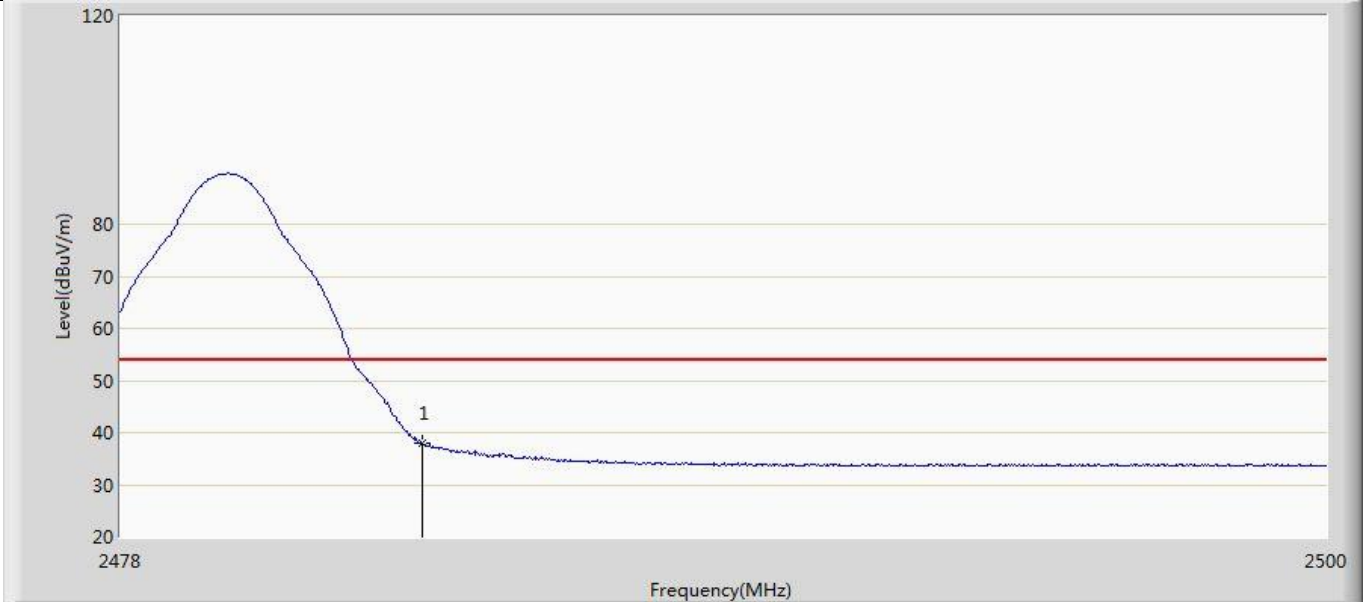


Profile: 2350756R	Page No.: 15
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2480MHz by LE_2Mbps	



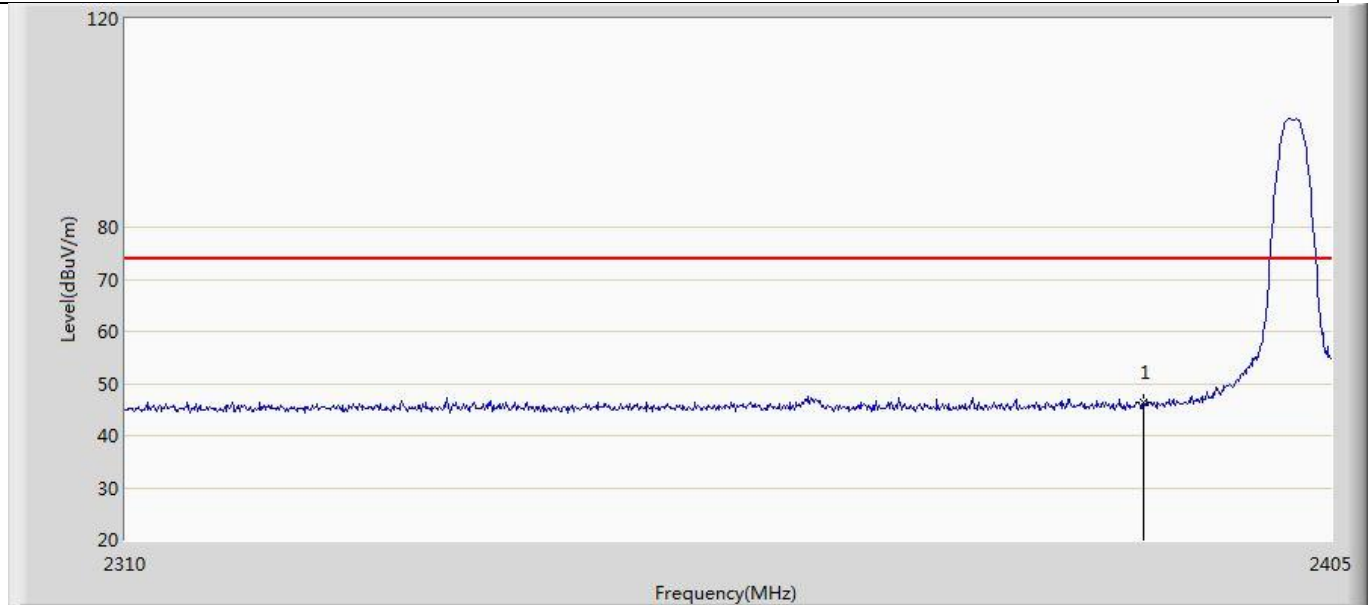
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	48.860	14.344	-25.140	74.000	34.516	PK

Profile: 2350756R	Page No.: 16
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 2 : Transmit at 2480MHz by LE_2Mbps	



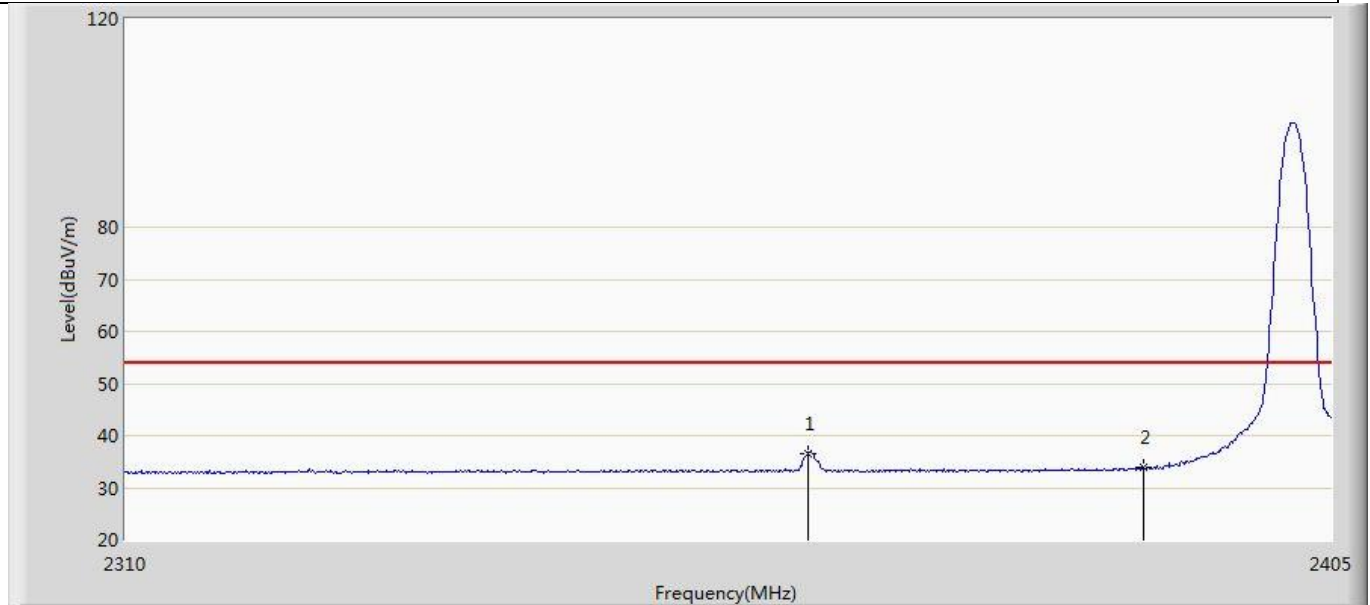
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.954	3.438	-16.046	54.000	34.516	AV

Profile: 2350756R	Page No.: 17
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2402MHz by LE_Coded S=8	



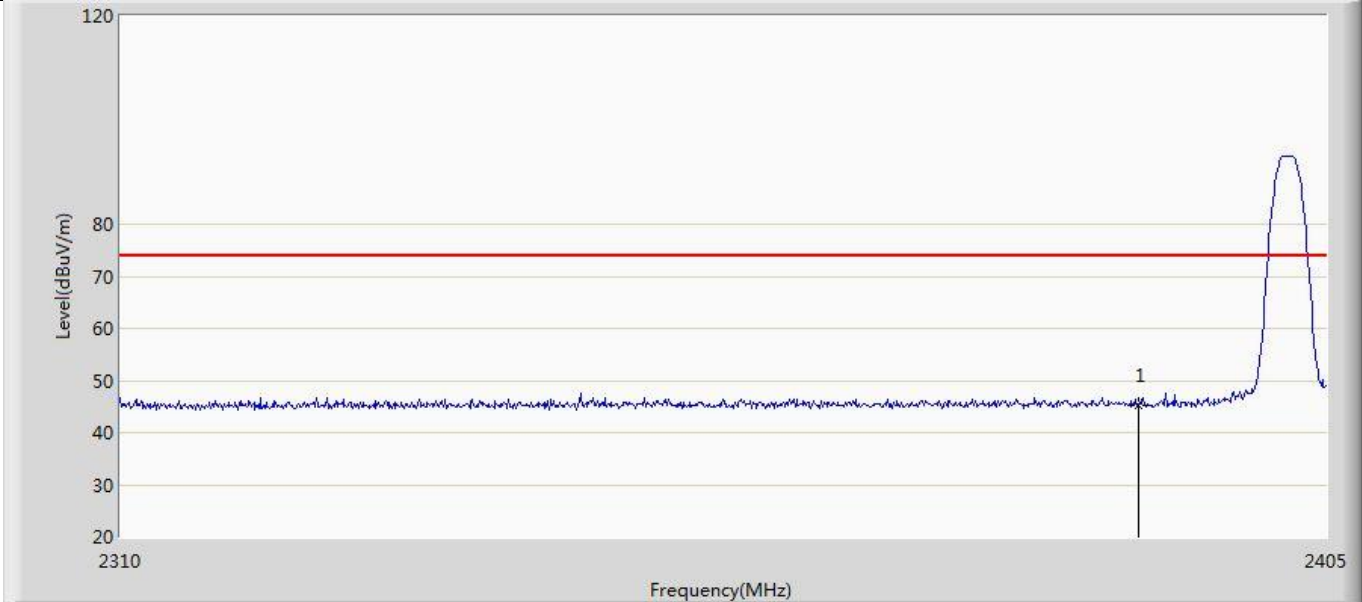
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	46.357	12.244	-27.643	74.000	34.113	PK

Profile: 2350756R	Page No.: 18
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2402MHz by LE_Coded S=8	



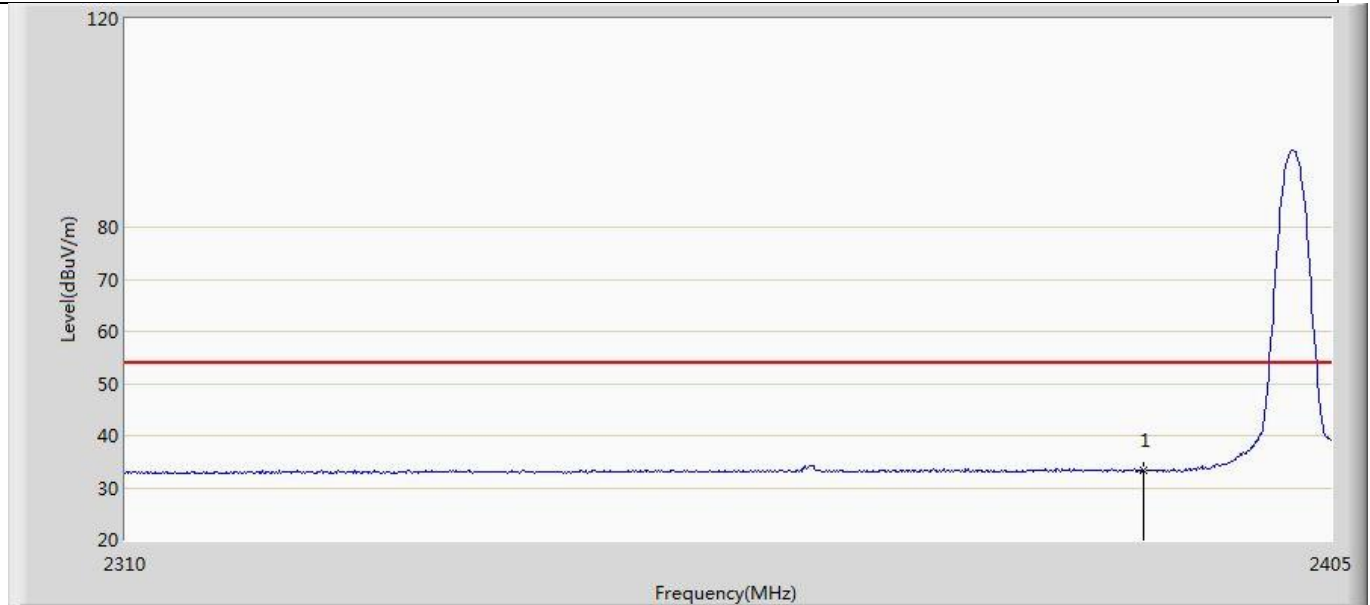
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2363.295	36.618	2.632	-17.382	54.000	33.986	AV
2		2390.000	33.954	-0.159	-20.046	54.000	34.113	AV

Profile: 2350756R	Page No.: 19
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2402MHz by LE_Coded S=8	



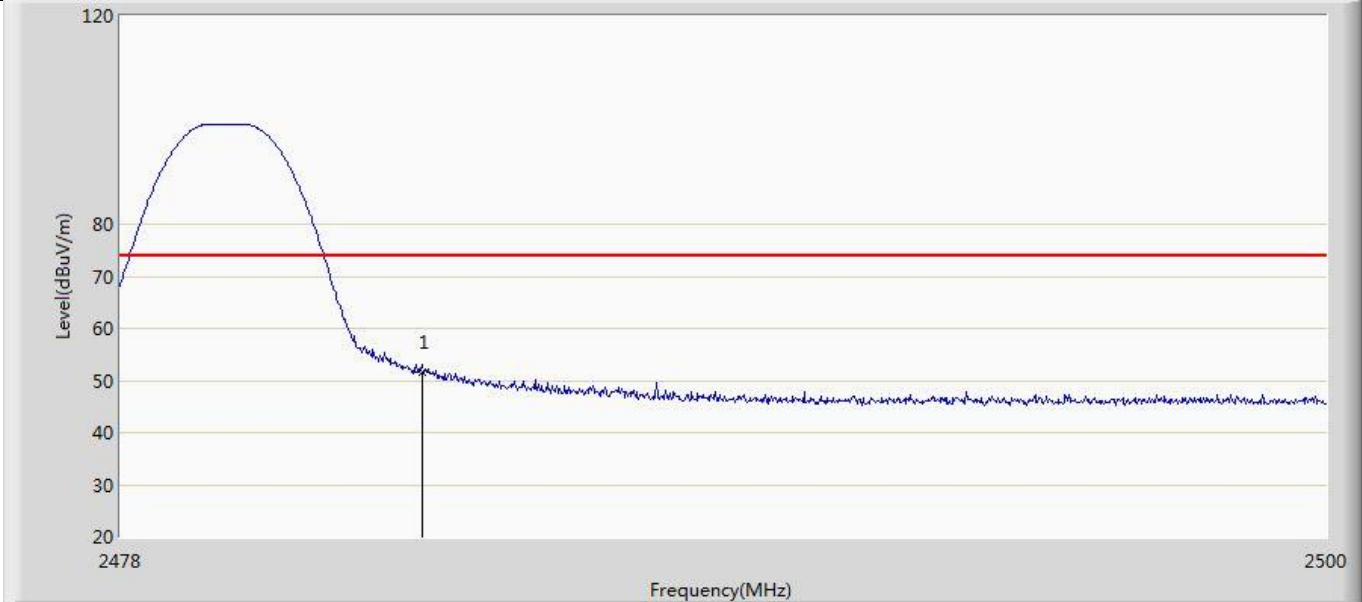
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.261	11.148	-28.739	74.000	34.113	PK

Profile: 2350756R	Page No.: 20
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2402MHz by LE_Coded S=8	



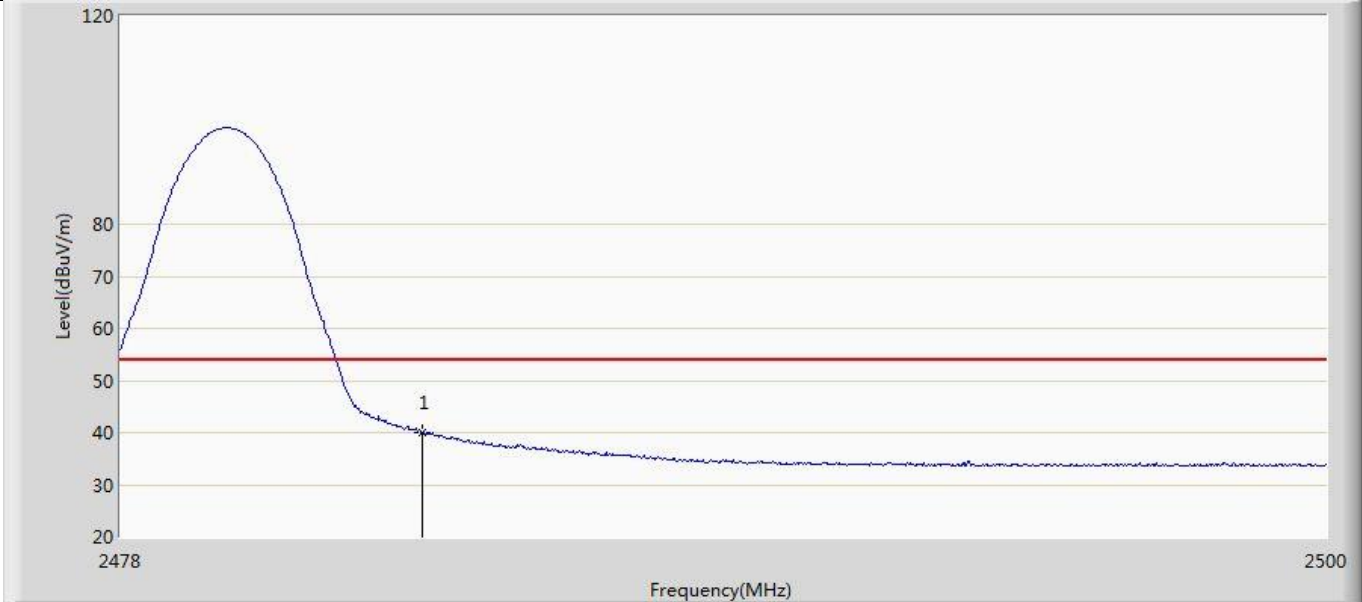
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.460	-0.653	-20.540	54.000	34.113	AV

Profile: 2350756R	Page No.: 21
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2480MHz by LE_Coded S=8	



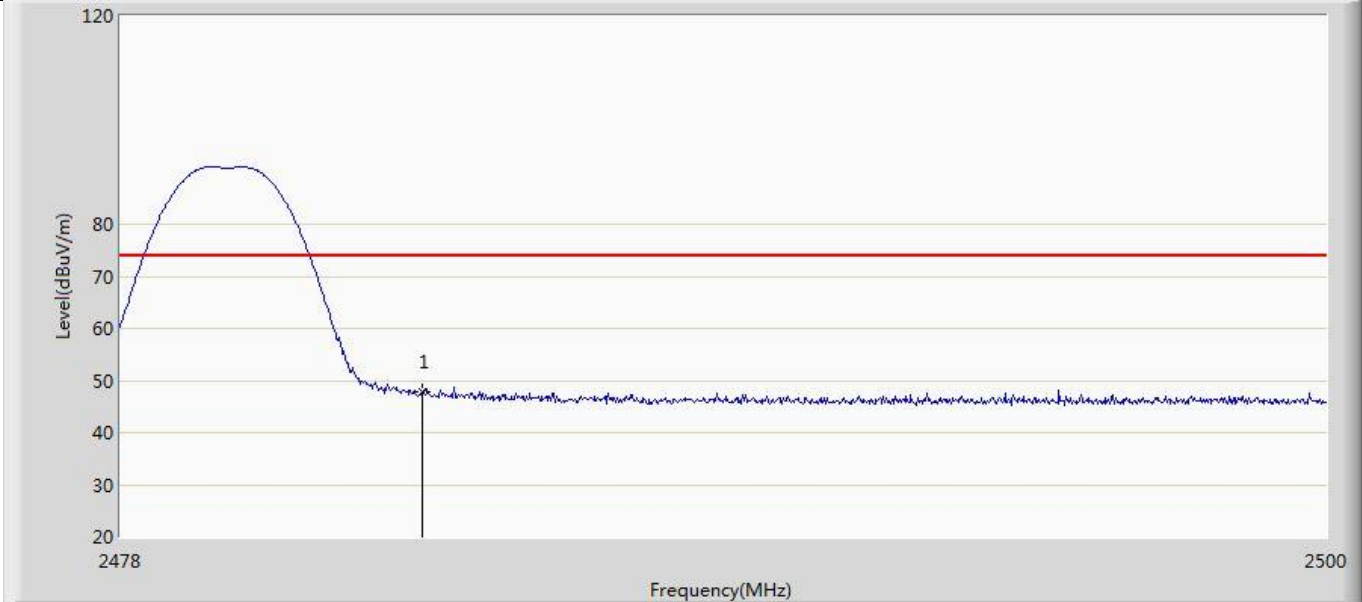
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.454	16.938	-22.546	74.000	34.516	PK

Profile: 2350756R	Page No.: 22
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2480MHz by LE_Coded S=8	



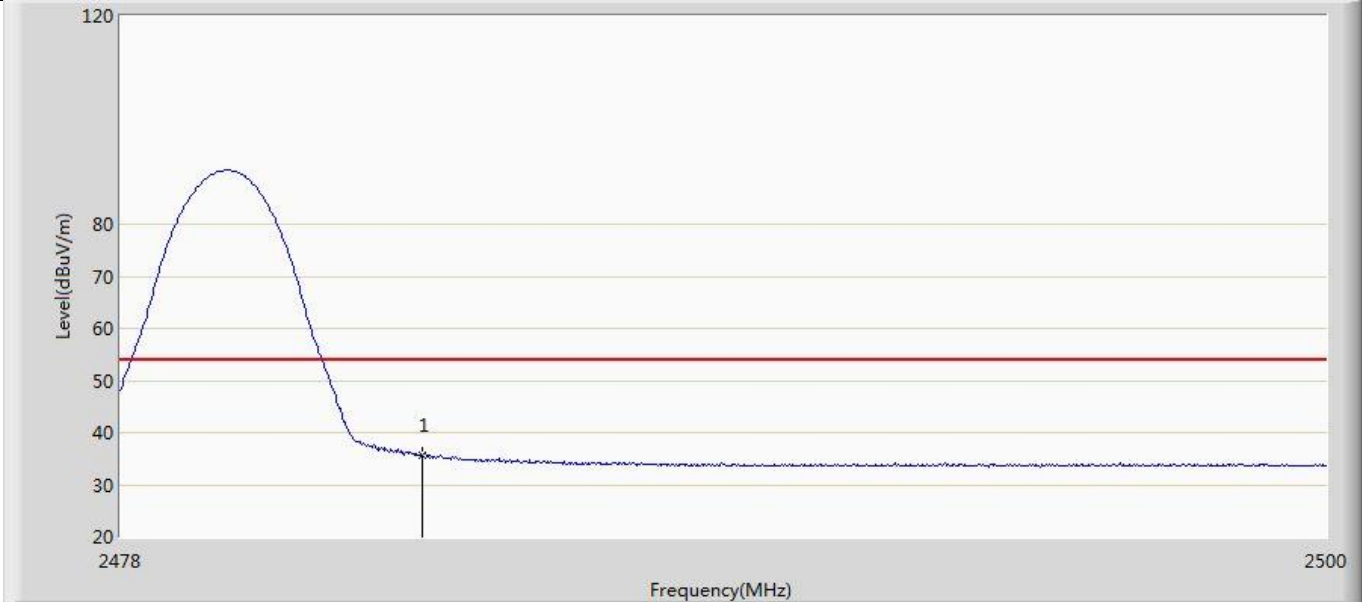
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.136	5.620	-13.864	54.000	34.516	AV

Profile: 2350756R	Page No.: 23
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2480MHz by LE_Coded S=8	



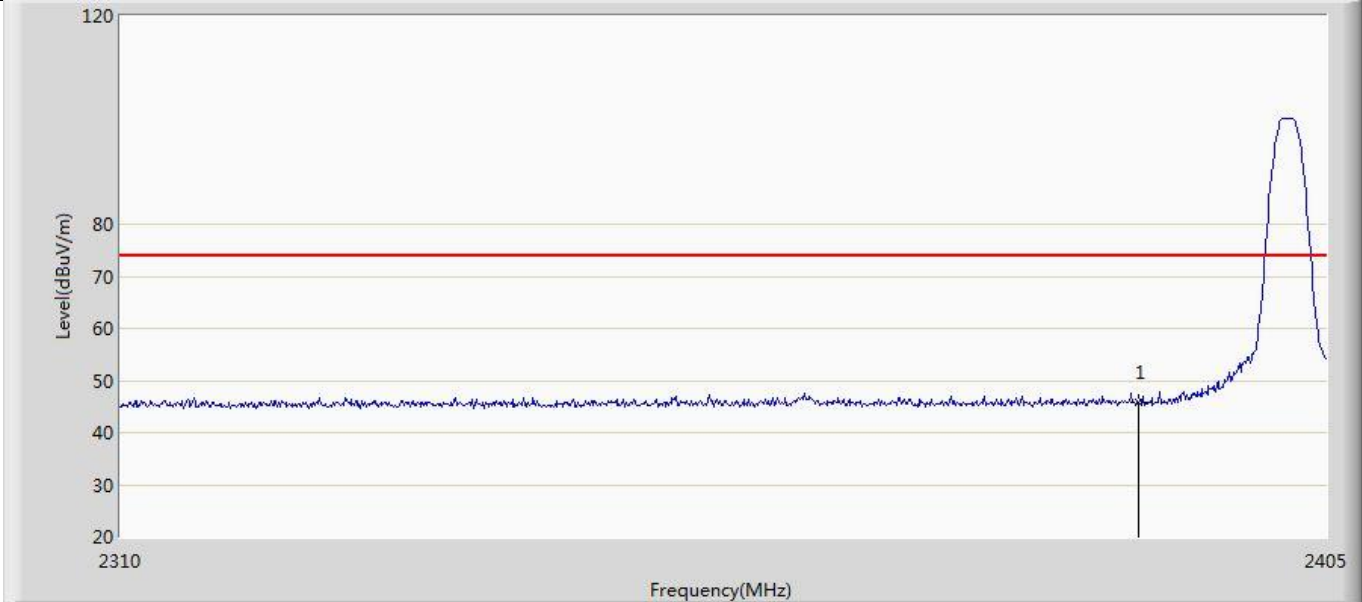
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	47.688	13.172	-26.312	74.000	34.516	PK

Profile: 2350756R	Page No.: 24
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 3 : Transmit at 2480MHz by LE_Coded S=8	



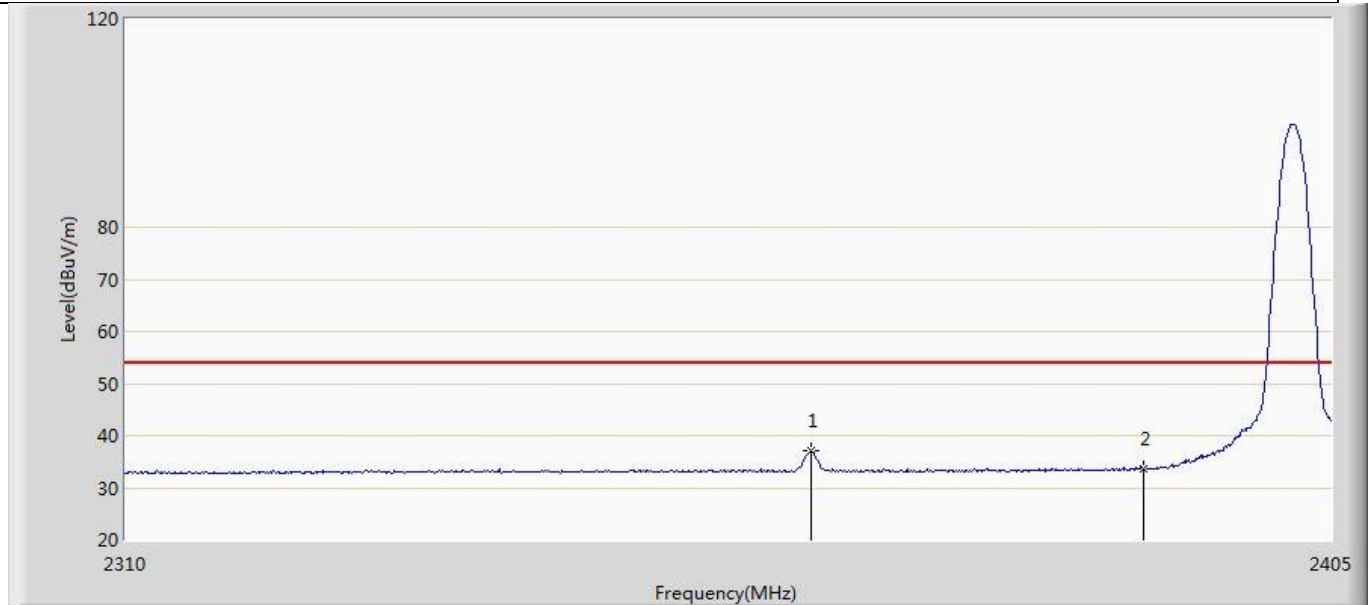
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.628	1.112	-18.372	54.000	34.516	AV

Profile: 2350756R	Page No.: 25
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2402MHz by LE_Coded S=2	



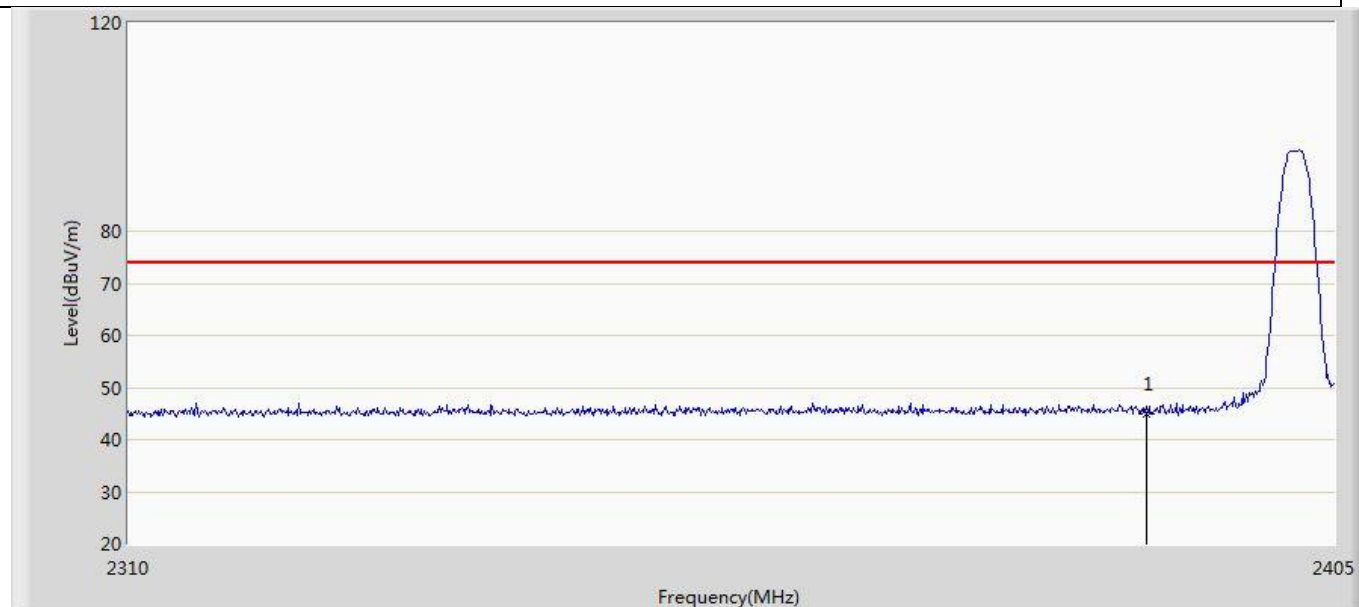
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	45.706	11.593	-28.294	74.000	34.113	PK

Profile: 2350756R	Page No.: 26
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2402MHz by LE_Coded S=2	



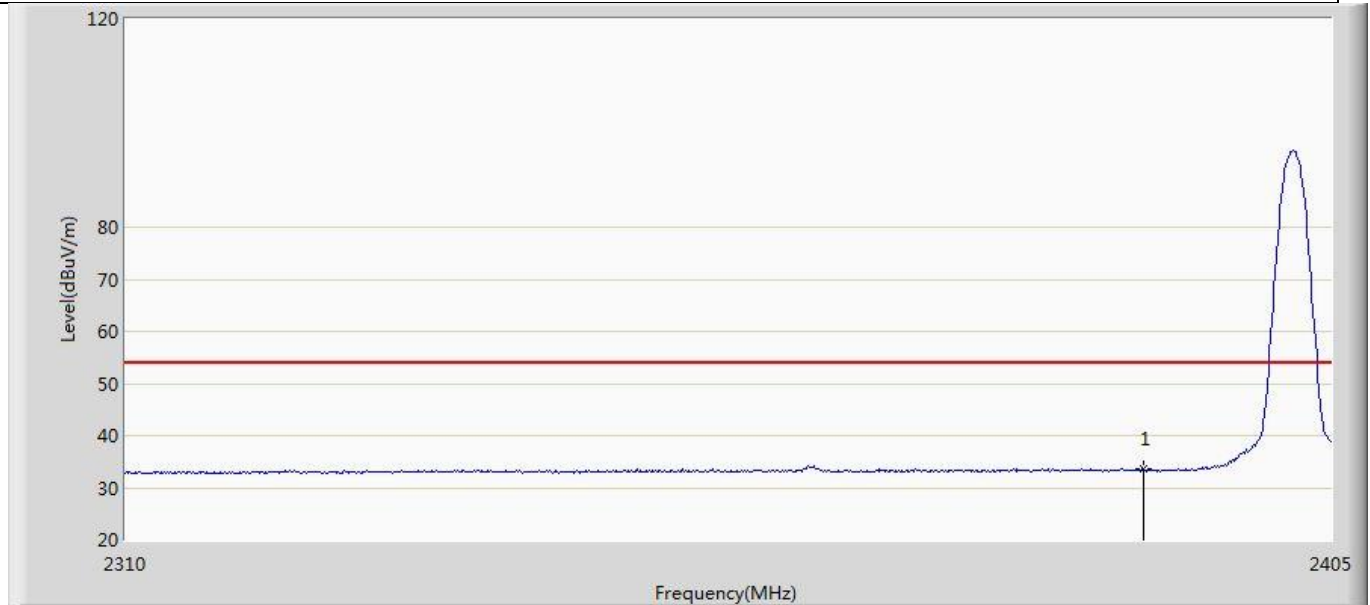
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2363.580	37.071	3.084	-16.929	54.000	33.987	AV
2		2390.000	33.639	-0.474	-20.361	54.000	34.113	AV

Profile: 2350756R	Page No.: 27
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2402MHz by LE_Coded S=2	



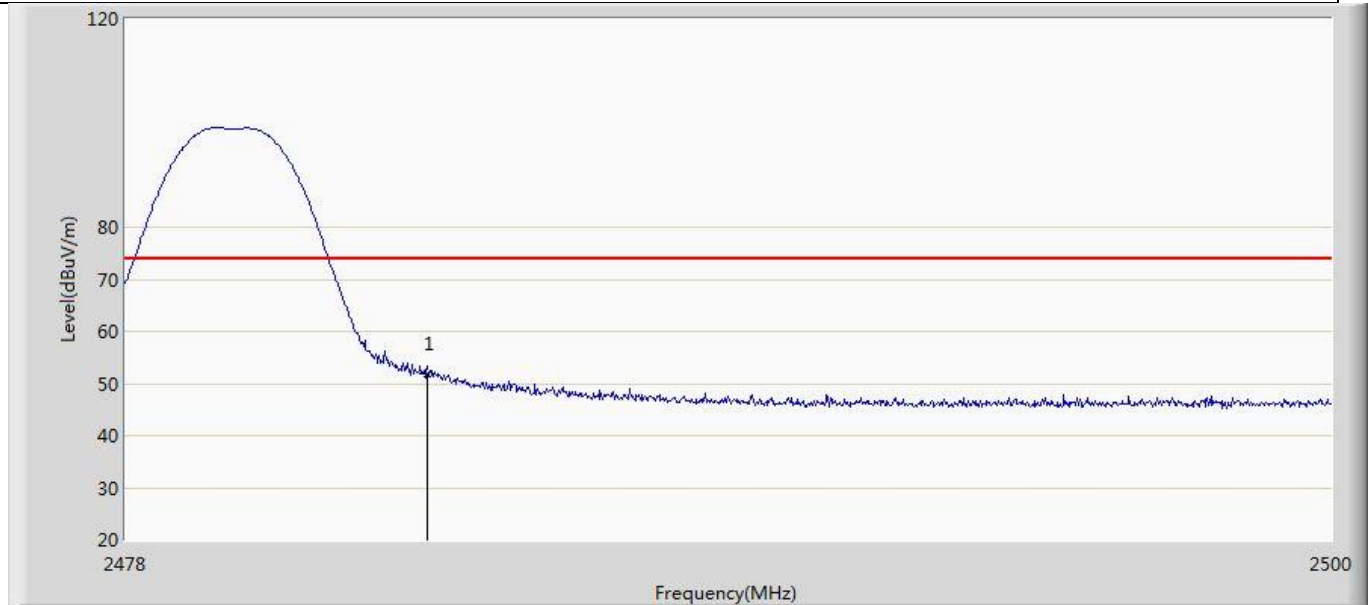
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	44.969	10.856	-29.031	74.000	34.113	PK

Profile: 2350756R	Page No.: 28
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2402MHz by LE_Coded S=2	



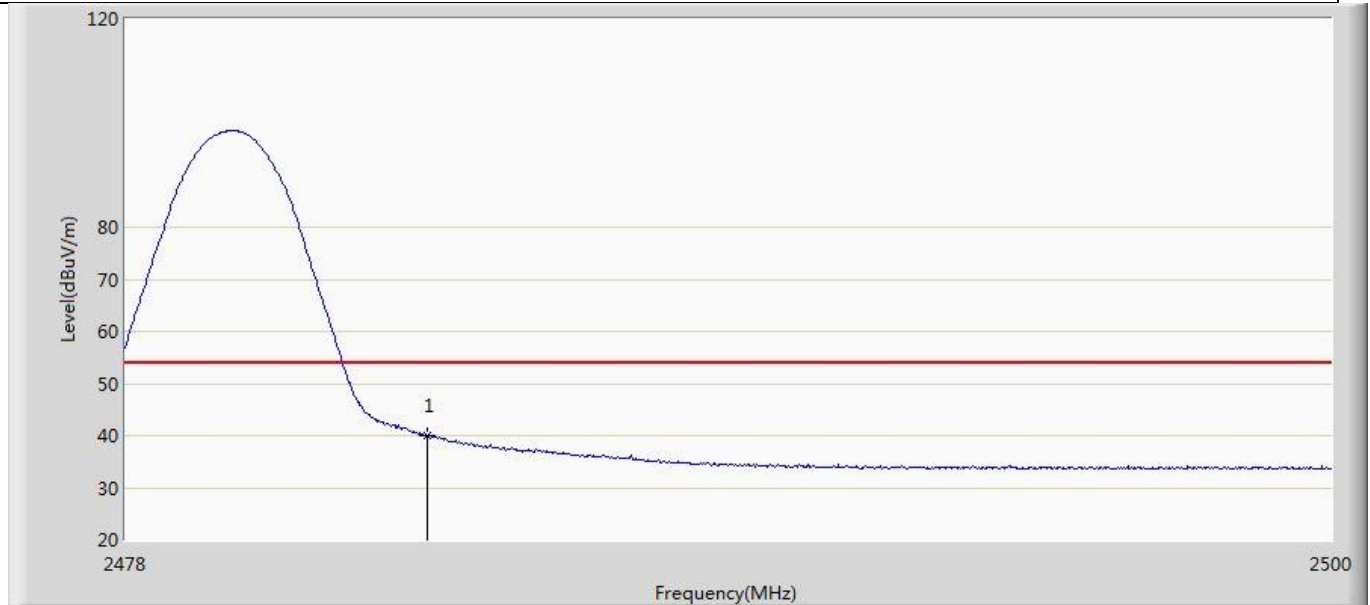
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	33.483	-0.630	-20.517	54.000	34.113	AV

Profile: 2350756R	Page No.: 29
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2480MHz by LE_Coded S=2	



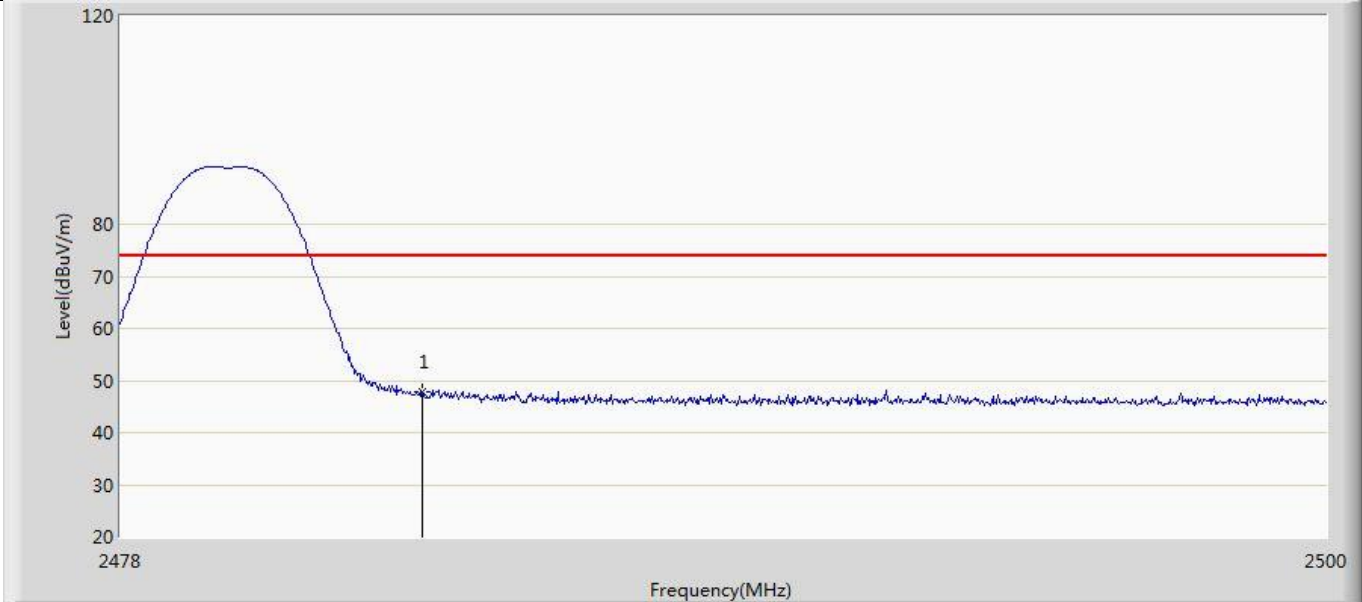
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	51.830	17.314	-22.170	74.000	34.516	PK

Profile: 2350756R	Page No.: 30
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2480MHz by LE_Coded S=2	



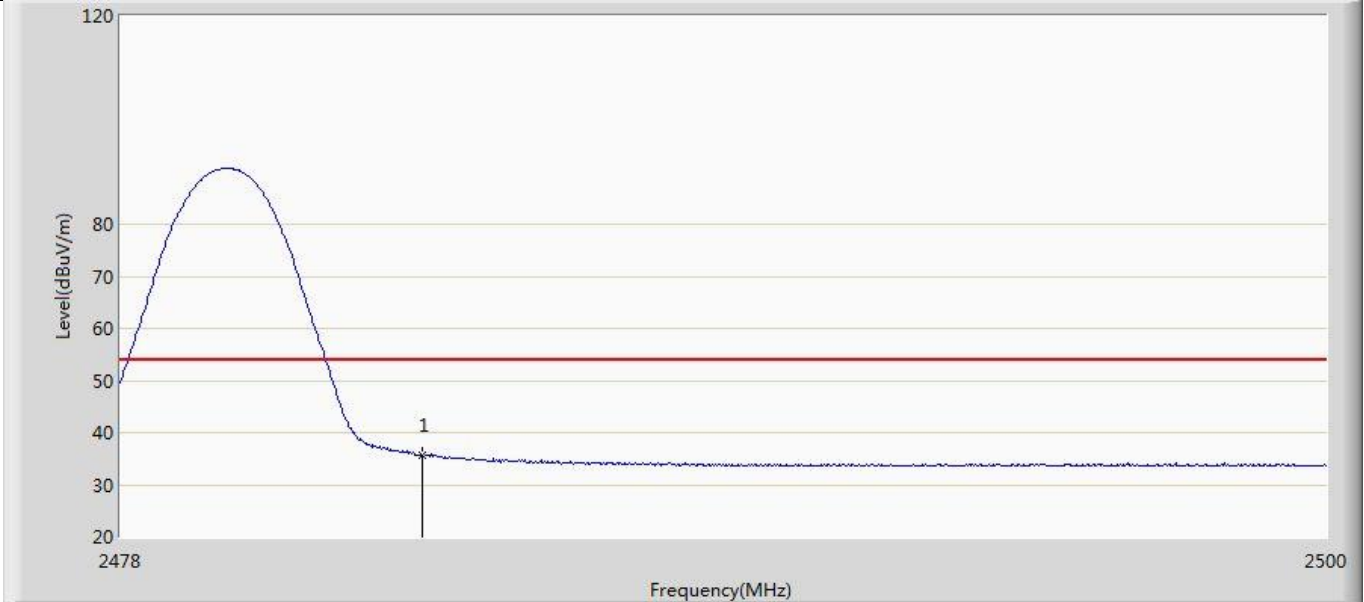
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.120	5.604	-13.880	54.000	34.516	AV

Profile: 2350756R	Page No.: 31
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2480MHz by LE_Coded S=2	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	47.812	13.296	-26.188	74.000	34.516	PK

Profile: 2350756R	Page No.: 32
Engineer: Yuliu	
Site: AC5	Time: 2023/06/11 - 13:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: LED Device	Power: 120Vac/60Hz
Note: Mode 4 : Transmit at 2480MHz by LE_Coded S=2	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.771	1.255	-18.229	54.000	34.516	AV

Appendix F: Conducted Spurious Emission

Test Result for Reference level:

TestMode	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	2402	2402.22	5.03
	2440	2440.23	5.76
	2480	2480.23	5.94
BLE_2M	2402	2402.15	3.32
	2440	2440.16	3.53
	2480	2480.15	3.71
BLE_125K	2402	2402.25	2.99
	2440	2439.75	3.21
	2480	2479.75	3.41
BLE_500K	2402	2402.25	5.57
	2440	2440.25	5.81
	2480	2480.25	5.93

Test Result for Band edge :

TestMode	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Low	2402	5.03	-45.45	≤-24.97	PASS
	High	2480	5.94	-51	≤-24.06	PASS
BLE_2M	Low	2402	3.32	-28.63	≤-26.68	PASS
	High	2480	3.71	-48.37	≤-26.29	PASS
BLE_125K	Low	2402	2.99	-47.12	≤-27.01	PASS
	High	2480	3.41	-50.24	≤-26.59	PASS
BLE_500K	Low	2402	5.57	-47.37	≤-24.43	PASS
	High	2480	5.93	-51.62	≤-24.07	PASS

Test Result for Spurious Emission :

TestMode	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	2402	30~1000	5.03	-66.23	≤-24.97	PASS
		1000~3000	5.03	-48.61	≤-24.97	PASS
		3000~5000	5.03	-65.38	≤-24.97	PASS
		5000~7000	5.03	-66.92	≤-24.97	PASS
		7000~9000	5.03	-38.11	≤-24.97	PASS
		9000~11000	5.03	-62.87	≤-24.97	PASS
		11000~13000	5.03	-58.05	≤-24.97	PASS
		13000~15000	5.03	-65.24	≤-24.97	PASS
		15000~17000	5.03	-58.85	≤-24.97	PASS
		17000~19000	5.03	-62.41	≤-24.97	PASS
		19000~21000	5.03	-61.49	≤-24.97	PASS
		21000~23000	5.03	-60.91	≤-24.97	PASS
		23000~25000	5.03	-58.68	≤-24.97	PASS
	2440	30~1000	5.76	-67.99	≤-24.24	PASS
		1000~3000	5.76	-59.67	≤-24.24	PASS

		3000~5000	5.76	-64.64	≤-24.24	PASS
		5000~7000	5.76	-67.33	≤-24.24	PASS
		7000~9000	5.76	-42.04	≤-24.24	PASS
		9000~11000	5.76	-60.84	≤-24.24	PASS
		11000~13000	5.76	-56.59	≤-24.24	PASS
		13000~15000	5.76	-64.93	≤-24.24	PASS
		15000~17000	5.76	-64.62	≤-24.24	PASS
		17000~19000	5.76	-58.29	≤-24.24	PASS
		19000~21000	5.76	-61.27	≤-24.24	PASS
		21000~23000	5.76	-60.12	≤-24.24	PASS
		23000~25000	5.76	-59.01	≤-24.24	PASS
	2480	30~1000	5.94	-68.81	≤-24.06	PASS
		1000~3000	5.94	-51.26	≤-24.06	PASS
		3000~5000	5.94	-65.06	≤-24.06	PASS
		5000~7000	5.94	-66.6	≤-24.06	PASS
		7000~9000	5.94	-42.08	≤-24.06	PASS
		9000~11000	5.94	-58.88	≤-24.06	PASS
		11000~13000	5.94	-65.07	≤-24.06	PASS
		13000~15000	5.94	-65.29	≤-24.06	PASS
		15000~17000	5.94	-63.02	≤-24.06	PASS
		17000~19000	5.94	-59.53	≤-24.06	PASS
		19000~21000	5.94	-62.07	≤-24.06	PASS
		21000~23000	5.94	-59.62	≤-24.06	PASS
		23000~25000	5.94	-58.9	≤-24.06	PASS
BLE_2M	2402	30~1000	3.32	-68.89	≤-26.68	PASS
		1000~3000	3.32	-53.54	≤-26.68	PASS
		3000~5000	3.32	-65.21	≤-26.68	PASS
		5000~7000	3.32	-67.06	≤-26.68	PASS
		7000~9000	3.32	-39.62	≤-26.68	PASS
		9000~11000	3.32	-62.56	≤-26.68	PASS
		11000~13000	3.32	-61.24	≤-26.68	PASS
		13000~15000	3.32	-64.94	≤-26.68	PASS
		15000~17000	3.32	-59.89	≤-26.68	PASS
		17000~19000	3.32	-61.57	≤-26.68	PASS
		19000~21000	3.32	-61.66	≤-26.68	PASS
		21000~23000	3.32	-61.61	≤-26.68	PASS
		23000~25000	3.32	-58.44	≤-26.68	PASS
	2440	30~1000	3.53	-67.45	≤-26.47	PASS
		1000~3000	3.53	-47.77	≤-26.47	PASS
		3000~5000	3.53	-65.25	≤-26.47	PASS
		5000~7000	3.53	-59.96	≤-26.47	PASS
		7000~9000	3.53	-44.99	≤-26.47	PASS
		9000~11000	3.53	-62.09	≤-26.47	PASS
		11000~13000	3.53	-59.43	≤-26.47	PASS
		13000~15000	3.53	-65.01	≤-26.47	PASS
		15000~17000	3.53	-64.68	≤-26.47	PASS
		17000~19000	3.53	-61.44	≤-26.47	PASS
		19000~21000	3.53	-62.76	≤-26.47	PASS
		21000~23000	3.53	-61.64	≤-26.47	PASS
		23000~25000	3.53	-58.61	≤-26.47	PASS
	2480	30~1000	3.71	-67.72	≤-26.29	PASS

		1000~3000	3.71	-53.07	≤-26.29	PASS
		3000~5000	3.71	-65.7	≤-26.29	PASS
		5000~7000	3.71	-67.26	≤-26.29	PASS
		7000~9000	3.71	-44.83	≤-26.29	PASS
		9000~11000	3.71	-59.98	≤-26.29	PASS
		11000~13000	3.71	-66.52	≤-26.29	PASS
		13000~15000	3.71	-65.27	≤-26.29	PASS
		15000~17000	3.71	-64.03	≤-26.29	PASS
		17000~19000	3.71	-61.63	≤-26.29	PASS
		19000~21000	3.71	-61.87	≤-26.29	PASS
		21000~23000	3.71	-61.16	≤-26.29	PASS
		23000~25000	3.71	-58.55	≤-26.29	PASS
BLE_125K	2402	30~1000	2.99	-66.55	≤-27.01	PASS
		1000~3000	2.99	-51.72	≤-27.01	PASS
		3000~5000	2.99	-64.99	≤-27.01	PASS
		5000~7000	2.99	-67.12	≤-27.01	PASS
		7000~9000	2.99	-40.11	≤-27.01	PASS
		9000~11000	2.99	-62.74	≤-27.01	PASS
		11000~13000	2.99	-60.56	≤-27.01	PASS
		13000~15000	2.99	-64.85	≤-27.01	PASS
		15000~17000	2.99	-60.41	≤-27.01	PASS
		17000~19000	2.99	-62.42	≤-27.01	PASS
		19000~21000	2.99	-61.71	≤-27.01	PASS
		21000~23000	2.99	-60.76	≤-27.01	PASS
		23000~25000	2.99	-58.83	≤-27.01	PASS
	2440	30~1000	3.21	-68.14	≤-26.79	PASS
		1000~3000	3.21	-56.97	≤-26.79	PASS
		3000~5000	3.21	-65.62	≤-26.79	PASS
		5000~7000	3.21	-66.76	≤-26.79	PASS
		7000~9000	3.21	-44.51	≤-26.79	PASS
		9000~11000	3.21	-63.28	≤-26.79	PASS
		11000~13000	3.21	-59.03	≤-26.79	PASS
		13000~15000	3.21	-64.27	≤-26.79	PASS
		15000~17000	3.21	-63.63	≤-26.79	PASS
		17000~19000	3.21	-61.61	≤-26.79	PASS
		19000~21000	3.21	-62.21	≤-26.79	PASS
		21000~23000	3.21	-61.83	≤-26.79	PASS
		23000~25000	3.21	-58.82	≤-26.79	PASS
	2480	30~1000	3.41	-67.97	≤-26.59	PASS
		1000~3000	3.41	-52.93	≤-26.59	PASS
		3000~5000	3.41	-64.34	≤-26.59	PASS
		5000~7000	3.41	-66.41	≤-26.59	PASS
		7000~9000	3.41	-45.06	≤-26.59	PASS
		9000~11000	3.41	-62.22	≤-26.59	PASS
		11000~13000	3.41	-66.23	≤-26.59	PASS
		13000~15000	3.41	-64.46	≤-26.59	PASS
		15000~17000	3.41	-63.76	≤-26.59	PASS
		17000~19000	3.41	-61.75	≤-26.59	PASS
		19000~21000	3.41	-61.37	≤-26.59	PASS
		21000~23000	3.41	-60.55	≤-26.59	PASS
		23000~25000	3.41	-57.13	≤-26.59	PASS

BLE_500K	2402	30~1000	5.57	-68.32	≤-24.43	PASS
		1000~3000	5.57	-53.6	≤-24.43	PASS
		3000~5000	5.57	-65.84	≤-24.43	PASS
		5000~7000	5.57	-67.08	≤-24.43	PASS
		7000~9000	5.57	-37.6	≤-24.43	PASS
		9000~11000	5.57	-61.05	≤-24.43	PASS
		11000~13000	5.57	-58.51	≤-24.43	PASS
		13000~15000	5.57	-65	≤-24.43	PASS
		15000~17000	5.57	-59.38	≤-24.43	PASS
		17000~19000	5.57	-62.31	≤-24.43	PASS
		19000~21000	5.57	-61.36	≤-24.43	PASS
		21000~23000	5.57	-61.56	≤-24.43	PASS
		23000~25000	5.57	-58.57	≤-24.43	PASS
	2440	30~1000	5.81	-68.54	≤-24.19	PASS
		1000~3000	5.81	-55.91	≤-24.19	PASS
		3000~5000	5.81	-65.44	≤-24.19	PASS
		5000~7000	5.81	-67.17	≤-24.19	PASS
		7000~9000	5.81	-41.76	≤-24.19	PASS
		9000~11000	5.81	-61.63	≤-24.19	PASS
		11000~13000	5.81	-56.33	≤-24.19	PASS
		13000~15000	5.81	-64.98	≤-24.19	PASS
		15000~17000	5.81	-63.47	≤-24.19	PASS
		17000~19000	5.81	-59.41	≤-24.19	PASS
		19000~21000	5.81	-62.33	≤-24.19	PASS
		21000~23000	5.81	-61.09	≤-24.19	PASS
		23000~25000	5.81	-58.44	≤-24.19	PASS
	2480	30~1000	5.93	-68.58	≤-24.07	PASS
		1000~3000	5.93	-45.54	≤-24.07	PASS
		3000~5000	5.93	-65.1	≤-24.07	PASS
		5000~7000	5.93	-66.1	≤-24.07	PASS
		7000~9000	5.93	-42.43	≤-24.07	PASS
		9000~11000	5.93	-60.55	≤-24.07	PASS
		11000~13000	5.93	-64.46	≤-24.07	PASS
		13000~15000	5.93	-64.76	≤-24.07	PASS
		15000~17000	5.93	-64.39	≤-24.07	PASS
		17000~19000	5.93	-60.97	≤-24.07	PASS
		19000~21000	5.93	-62.68	≤-24.07	PASS
		21000~23000	5.93	-59.96	≤-24.07	PASS
		23000~25000	5.93	-58.67	≤-24.07	PASS

Test Graphs for Reference level :

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

