



FCC Test Report



Report Number : 6128626044101

Applicant : Hangzhou Huacheng Software
Technology Co., Ltd.

Product : IMOUE Smart Lock

Brand : IMOUE

Model : Cubo1

FCC ID : 2BQWU-CUBO1-A1

Applicable Standard:

FCC Subpart 15.247

RESPONSIBLE FOR	NAME	SIGNATURE	DATE
Approved By	Jack Chang		2026-09-16
Prepared By	Ariel Hsu		2026-09-16

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service control rules.

EXECUTIVE SUMMARY

TÜV SÜD Asia Ltd., reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Asia Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Asia Ltd. issued reports.

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1 General Information

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	Initial Issue	2026-09-16

1.2 Introduction

The information contained in this report is intended to show verification of RF qualification approval. The testing requirements of the standards for the tests listed in Section 1.4.

Applicant : Hangzhou Huacheng Software Technology Co., Ltd.
Address : 15th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District
Manufacturer : Hangzhou Huacheng Software Technology Co., Ltd.
Brand Name : IMOU
Product Name : IMOU Smart Lock
Model Number(s) : Cubo1
Date of Receipt of EUT : 2026-06-04
Start of Test : 2026-06-17
Finish of Test : 2026-06-29
Test Laboratory : TÜV SÜD Asia Ltd., Taiwan Branch
7F., No. 37, Sec. 2, Zhongyang S. Rd., Beitou District, Taipei City 11270, R.O.C. Taiwan
Test Location : Guishan Laboratory
No. 31, Dinghu Road, Guishan District, Taoyuan City, TAIWAN (R.O.C.)

The test facility is accredited by TAF (member of ILAC), under number 2573 according to ISO/IEC 17025: 2017.

FCC OET Designation Number: TW2573

1.3 Reference Measurement Document

☒ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024

☒ KDB 558074 D01 15.247 Meas Guidance v05r02

☐ KDB 662911 D01 Multiple Transmitter Output v02r01

1.4 Brief Summary of Test Results

§ 15.247			
Clause	Test item	Result	Remark
§15.203	Antenna Requirement	Compliant	
§15.247(b)(3)	Peak Conducted Output Power	Compliant	
§15.247(a)(2)	6 dB Bandwidth	Compliant	
§15.247(e)	Peak Power Spectral Density	Compliant	
§15.247(d)	Conducted Spurious Emission	Compliant	
§15.247(d)& 15.209	Radiated Spurious Emissions and Band Edges	Compliant	
§15.207	AC Power Line Conducted Emission	Compliant	

Note:

N/A

2 General EUT Information

2.1 Technical Specification of EUT

Items	EUT information
Operating Frequency	2402MHz~2480MHz
Number of Channels	40
Hardware Version	V1.0
Software Version	V3.001.0000000.4.R.250514
Operating Voltage	6Vdc from battery(1.5V*4) 5Vdc from USB (for testing)
Data Rate	Up to 1 Mbps
Modulation	GFSK
TX Streaming Mode	☒ SISO ☐ MIMO, 2T2R ☐ 2TX for Diversity
Sample ID	Conducted:201880010331-E1-003 Radiated: 201880010331-E1-005
Test Software Version	ttermpro_V5.3

TÜV SÜD Asia Ltd assumes no responsibility for any technical specification (including antenna information) provided by the applicant.

2.2 Antenna List

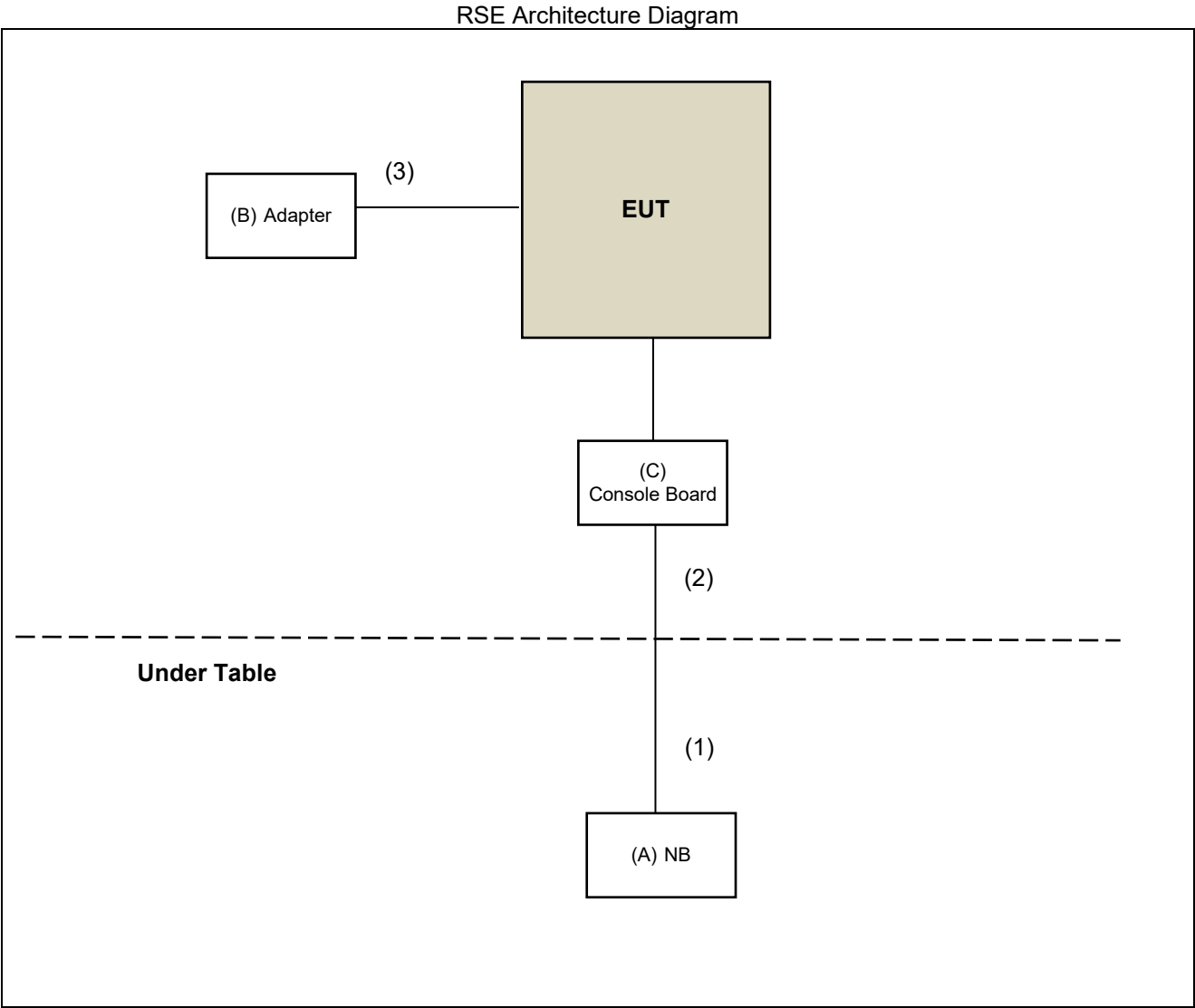
The antenna has been confirmed to be fully compliant with the requirements of FCC §15.203.

Antenna Type	Brand	Model	Connector	Freq. (MHz)	Peak Antenna Gain (dBi)
Stamped metal antenna	INNOWAVE	F06682506990001	Permanently attached antenna	2400~2500	-0.46

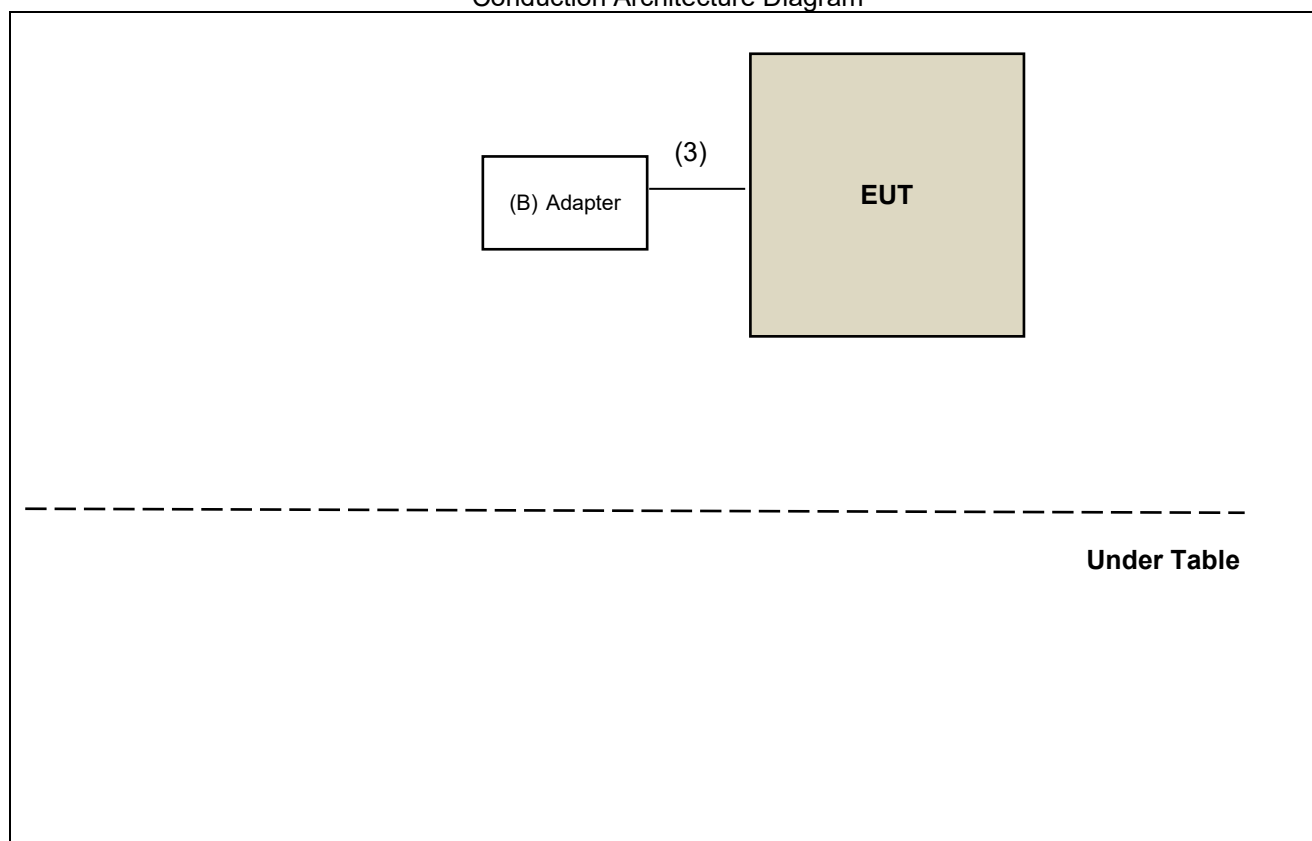


3 EUT Setup Configuration

3.1 Block Diagram



Conduction Architecture Diagram



3.2 Equipment used

No.	Product	Brand	Model	Serial No.	Remarks
A	Laptop	Lenovo	TP00048A	PC-00NQMT	Provided by Lab
B	Adapter	Apple	A1385	N/A	Provided by Lab
C	Console Board	N/A	N/A	N/A	Provided by Client

3.3 Cable(s) used

No.	Cable Descriptions	Brand	Model	Length(m)	Remarks
1	High-isolation extension line	Benevo	BUSB0300AMF	5	Provided by Lab
2	USB cable	UGREEN	USB Type C	1	Provided by Client
3	USB cable	IQOS	USB Type C	1	Provided by Lab

3.4 Operating Channels and Frequencies

BLE

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

3.5 Test Configuration

The EUT was configured to operate at its maximum power control level and set to a continuous transmitting and receiving state via the test software for all testing procedures.

3.5.1 RF Conducted Measurement

Test Item	Mode	Tested Channel	Data Rate (Mbps)
Peak Output Power, Maximum Spectral Power Density, Emission Bandwidth/ 6 dB Bandwidth Conducted Spurious Emission	BLE	0, 19, 39	1

3.5.2 Radiated Spurious Emission

☒ Mobile Device

☐ Portable Device and 3 axis (X, Y, Z) were assessed. ☐ Lie(X) ☐ Stand(Y) ☐ Side(Z) was identified as the worst-case and is presented in the report.

Radiated Spurious Emissions (Below 1 GHz)

Below tested channels were the worst-case of each modulation family determined in accordance with ANSI C63.10, clause 5.6.2.2 (b).

Mode	Tested Channel	Date Rate (Mbps)
BLE	19	1

Radiated Spurious Emissions (Above 1 GHz)

☒ Following channel(s) was (were) selected for the final test as listed below.

Test Item	Mode	Tested Channel	Date Rate (Mbps)
Spurious Emission	BLE	0, 19, 39	1
Band Edge	BLE	0, 38, 39	1

AC Power Line Conducted Emission

☐ N/A, the device was powered by battery.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Channel	Date Rate (Mbps)
Tx	2402-2480	-	1.0

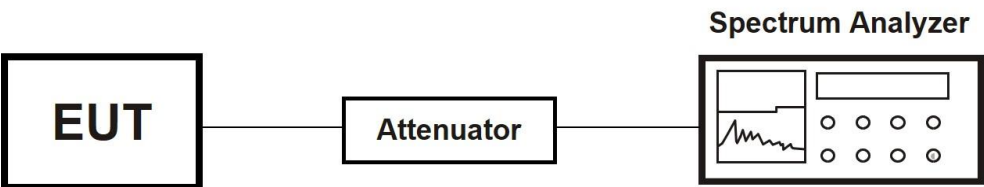
3.6 Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	20 - 24 °C	50-68 %	Sam Huang
Radiated Spurious Emissions	20 - 24 °C	50-68 %	Kevin Syu
AC Power Line Conducted Emission	20 - 24 °C	50-68 %	Kevin Syu

4 Technical Requirements

4.1 Duty Cycle

4.1.1 Block Diagram



4.1.2 Measurement procedure

Duty Cycle measurement is performed in accordance with the procedures of ANSI C63.10, clause 11.6. The EUT shall be configured to operate at the maximum achievable duty cycle.

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	Zero Span
RBW	≥ EBW, or the largest available value
VBW	≥ RBW
Detector	Peak
Sweep Points	≥32001

4.1.3 Limit

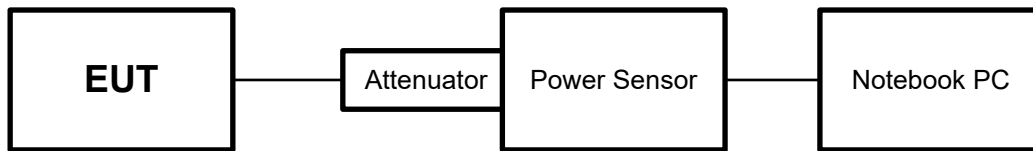
N/A, the duty cycle measurement was a reference value.

4.1.4 Result

Refer to Appendix B

4.2 Peak Conducted Output Power

4.2.1 Block Diagram



4.2.2 Measurement procedure

- 1) The measurement is performed in accordance with the procedures of ANSI C63.10, clause 11.9.1. The EUT shall be configured to operate at the maximum achievable duty cycle and the operation mode presented at section 3.5.
- 2) PKPM1, ANSI C63.10, Clause 11.9.1.2 was conducted for peak output power measurement.
- 3) If average power is necessary to be recorded, that Method AVGPM-G, clause 11.9.2.3.2 shall be conducted for average output power measurement. The wideband gated RF power meter is used to perform the measurement. The gate parameters are adjusted such that the power is measured the ON time of the transmissions.

4.2.3 Limit

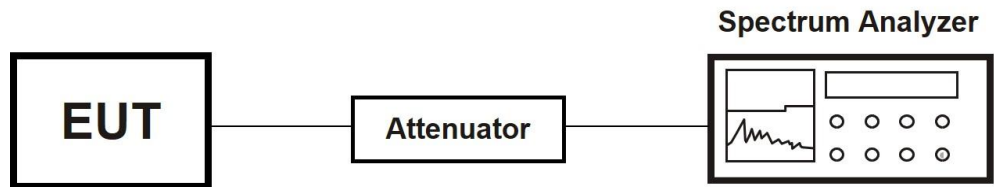
The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm).

4.2.4 Measurement result

Refer to Appendix C

4.3 Bandwidth Measurement

4.3.1 Block Diagram



4.3.2 Measurement procedure

99% Occupied Bandwidth

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 99% OBW of the signal
RBW	1-5% of EBW or OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Sample
Trace Mode	Single Sweep
Measurement Function	Use the 99% power bandwidth function of the spectrum.

6dB Bandwidth

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	encompass the entire 6 dB BW of the signal
RBW	1-5% of EBW or OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace Mode	Max Hold
Measurement Function	Measure the maximum width of the emission that is 6 dB down from the maximum of the emission.

4.3.3 Limit

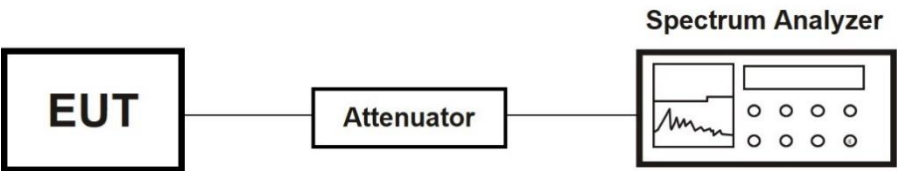
6 dB bandwidth shall be at least 500 kHz.

4.3.4 Measurement result

Refer to Appendix D

4.4 Peak Power Spectral Density

4.4.1 Block Diagram



4.4.2 Measurement procedure

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	>1.5 times of the DTS bandwidth
RBW	3 kHz
VBW	≥ 3 RBW
Detector	Peak
Trace Mode	Max hold
Measurement Function	Use peak search to identify the max PSD

4.4.3 Limit

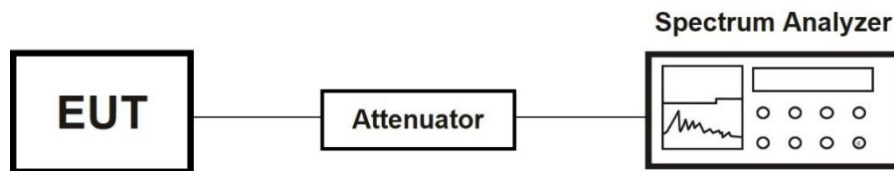
The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

4.4.4 Measurement result

Refer to Appendix E

4.5 Conducted Spurious Emission

4.5.1 Block Diagram



4.5.2 Measurement Procedure

Reference Level

Spectrum Parameters	Setting
Centre Frequency	equal to the centre of the transmission
Span	1.5*DTS bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace Mode	Max hold
Measurement Function	Use peak search to identify the max value as the reference level

Emission Level

Spectrum Parameters	Setting
Frequency Range	30 MHz to 10 th harmonics
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace Mode	Max hold
Measurement Function	Use the peak marker function to determine the maximum amplitude level

All emissions shall be have 20 dB below reference level, or 30 dB below if average power was conducted as the reported power.

4.5.3 Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, that the required attenuation shall be 30 dB instead of 20 dB.

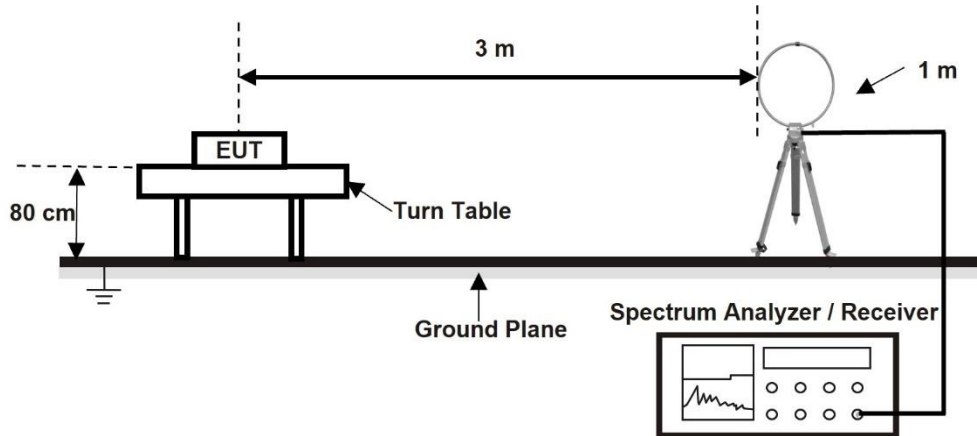
4.5.4 Test Result

Reference to Appendix F

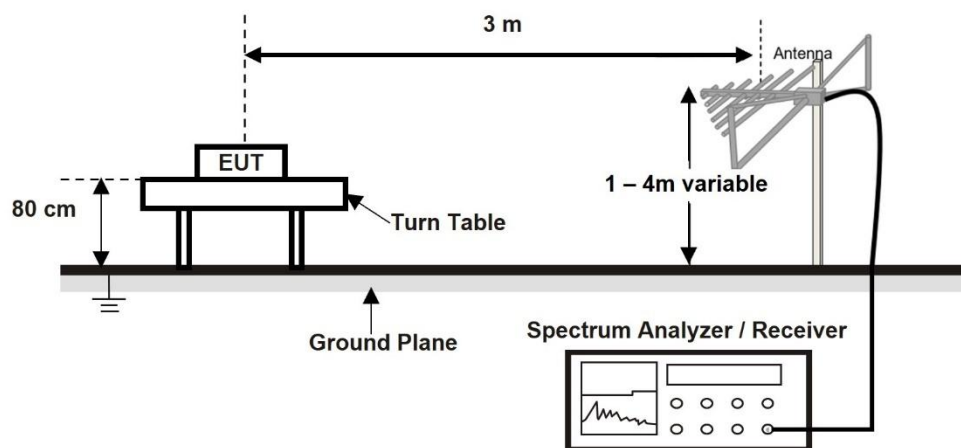
4.6 Radiated Spurious Emissions and Band Edges

4.6.1 Test Setup

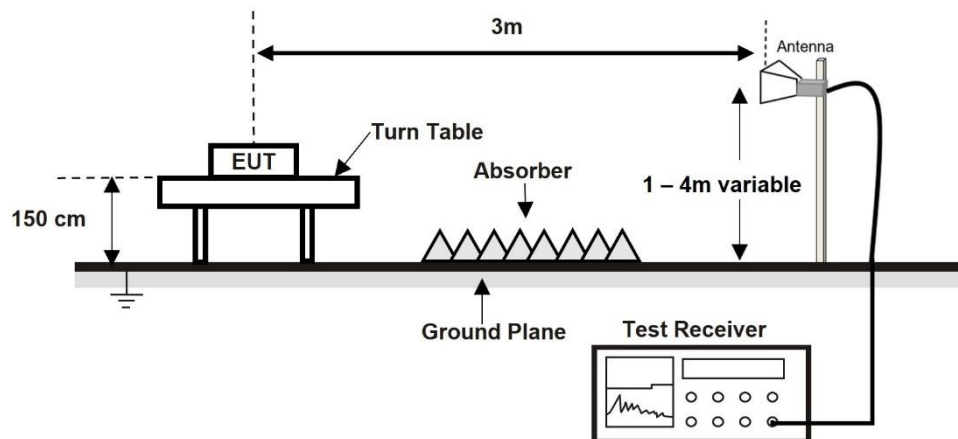
Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1 GHz.



4.6.2 Measurement procedure

For Frequency below 30 MHz

The EUT was setup in accordance with section 3.1 and 4.6.1. The EUT was placed on top of the turntable with a height of 0.8 m for measurement of frequencies below 30 MHz. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° while varying the measurement antenna height in Parallel (OPEN), perpendicular (CLOSE), and 4 m Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations. The measurement shall be performed with the following spectrum setting.

The RBW/ VBW shall be set 9 kHz for the measurement with Q.P. Frequency ranges in 9-90 kHz and 110- 490 kHz are based on measurements employing average and peak detectors.

For Frequency from 30 MHz to 40 GHz

The EUT was setup in accordance with section 3.1 and 4.6.1. The EUT was placed on top of the turntable with a height of 0.8 m for measurement of frequencies below 1 GHz, and 1.5 m for measurement of frequencies above 1 GHz. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° while varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. The measurement shall be performed with the following spectrum setting.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

1. RBW = 120kHz
2. VBW $\geq 3 \times$ RBW
3. Detector = Peak
4. Sweep time = auto
5. Trace mode = max hold
6. Allow sweeps to continue until the trace stabilizes.

If peak detection results satisfy the limit, Q.P. measurements are unnecessary; otherwise, a final Q.P. measurement must be performed.

Frequency above 1 GHz to 10th harmonic (up to 25 GHz):

Peak Measurement:

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Sweep time = auto.
5. Trace mode = max hold.
6. Allow sweeps to continue until the trace stabilizes.

Where the peak values are below the average limit, further measurements using an average detector are not required.

Average Measurement:

1. RBW = 1MHz
2. VBW = 10Hz (for duty cycle $\geq 98\%$), or
VBW = the value calculated in Appendix B (when duty cycle $<98\%$).
3. Detector = Peak.
4. Sweep time = auto.
5. Trace mode = max hold.
6. Allow sweeps to continue until the trace stabilizes.

4.6.3 Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits

Unwanted spurious emissions which fall in the restricted bands as specified in FCC §15.205 must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Distance (m)
0.009-0.490	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: The lower limit shall apply at the transition frequencies.

Sample Calculation:

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamplifier Gain (dB)

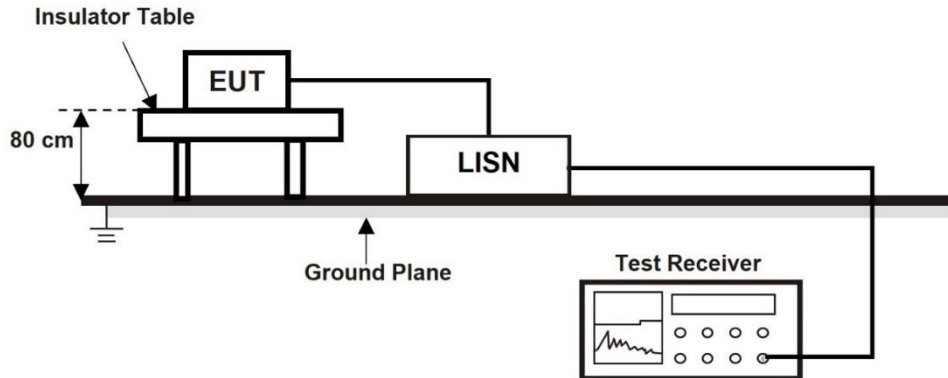
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

4.6.4 Measurement result

Please refer to Appendix G

4.7 AC Power Line Conducted Emission Measurement

4.7.1 Test Setup



4.7.2 Measurement procedure

1. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 μ H of coupling impedance for the measuring instrument.
2. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The frequency range from 150 kHz to 30 MHz was scanned. Emission levels more than 20 dB below the limit was not recorded.

4.7.3 Limit

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.7.4 Measurement result

Please refer to Appendix H

5 Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

Item	Measurement Uncertainty			
	Test Site	Description	U	Unit
AC Power Line Conducted Emission	Shielded Room A	0.15 – 30MHz	2.69	dB
Radiated Emission, Horizontal @3m distance	Chamber 966B	9kHz – 30MHz	2.61	dB
		30 – 1000MHz	1.82	dB
		1 – 18GHz	2.11	dB
		18 – 40GHz	2.41	dB
Radiated Emission, Vertical @3m distance	Chamber 966B	9kHz – 30MHz	2.61	dB
		30 – 1000MHz	1.8	dB
		1 – 18GHz	2.11	dB
		18 – 40GHz	2.41	dB
Frequency stability	RF Room	--	± 29	Hz
Bandwidth Measurement	RF Room	6dB BW	± 29.78	kHz
	RF Room	20dB BW	± 46.91	kHz
	RF Room	26dB BW	± 55.99	kHz
	RF Room	99% OBW	± 28.95	kHz
Output Power	RF Room	Spectrum	± 1.44	dB
		Power Sensor	± 0.81	
Power Spectral Density	RF Room	--	± 1.44	dB
Conducted Spurious Emission	RF Room	--	± 1.62	dB

Appendix A. Test Equipment

Radiated Emission Measurement

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Spectrum Analyzer	R&S	FSV3044	101346	2025-07-29	1 Year
Test Receiver	R&S	ESR 7	102602	2025-08-05	1 Year
Horn (18-40G)	RF SPIN	DRH0844	LE2C01A0844	2025-12-19	1 Year
Horn (1-18G)	RF SPIN	DRH18-E	211218A18EN	2025-11-05	1 Year
Bi-Log Antenna	Schwarzbeck	VULB 9168	01496	2026-02-11	1 Year
Loop Antenna	TESEQ	HLA 6121	64165	2026-05-06	1 Year
Preamplifier (1-18G)	EMCI	EMC118A45SEE3	981150	2026-04-26	1 Year
Preamplifier (18-40G)	SGH	SGH184	20230214-8	2026-05-11	1 Year
Preamplifier (30M-1G)	EMCI	EMC330N-P	981122	2026-03-30	1 Year
Test Software	Audix	e3	221118, V9	NCR	NCR

AC Power Line Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Test Receiver	R&S	ESR7	102600	2025-08-22	1 Year
LISN	R&S	ENV216	101517	2025-10-31	1 Year
Test Software	Audix	e3	221118, V9	NCR	NCR.

RF Conducted Measurement

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Spectrum Analyzer	Keysight	N9010B	MY63440384	2025-07-11	1 Year
Power Sensor	Anritsu	MA24408A	12778	2026-03-12	1 Year
Test Software	Anritsu	MA24400A USB Peak Power Sensor	1.1.0.0	NCR	NCR.
Test Software	Keysight	IOT0047A	24.11.25.17	NCR	NCR.

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.

Appendix B. Duty Cycle

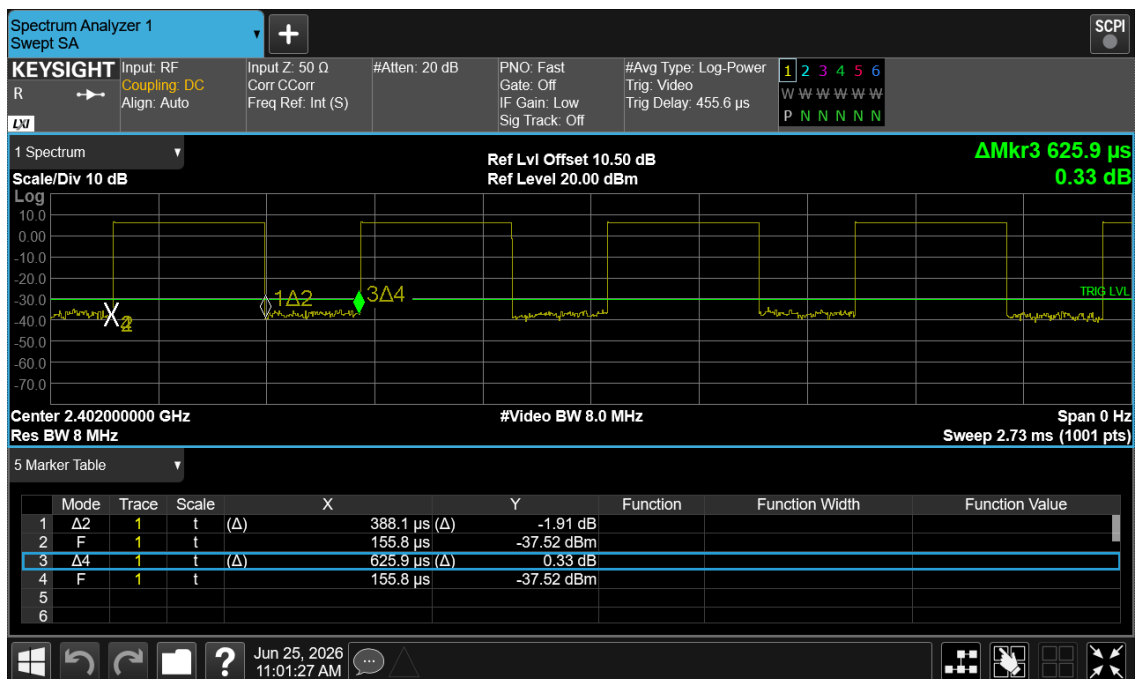
BLE 1M

1Mbps		
Duty On (ms):	0.388	Duty Cycle = Ton / (Ton + Toff)
Duty OnOff (ms):	0.626	
Duty Cycle (%):	62.009	
VBW (Hz):	3k	

$$* \text{Duty cycle} = 0.388\text{ms} / 0.626\text{ms} = 0.62009$$

*If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

*If duty cycle of test signal is $< 98\%$, duty factor shall be considered.



Appendix C. Peak Conducted Output Power

Peak Output Power

<1Mbps>

Channel	Channel Frequency	Peak Output Power		Average Output Power		Power Setting	Limit(dBm)
	(MHz)	(dBm)	(mW)	(dBm)	(mW)		
Low Channel	2402	8.12	6.486344	5.45	3.507519	7	30
Middle Channel	2440	8.17	6.561453	5.51	3.556313	7	30
High Channel	2478	8.15	6.531306	5.43	3.491403	7	30
High Channel	2480	3.74	2.365920	1.06	1.276439	2.5	30

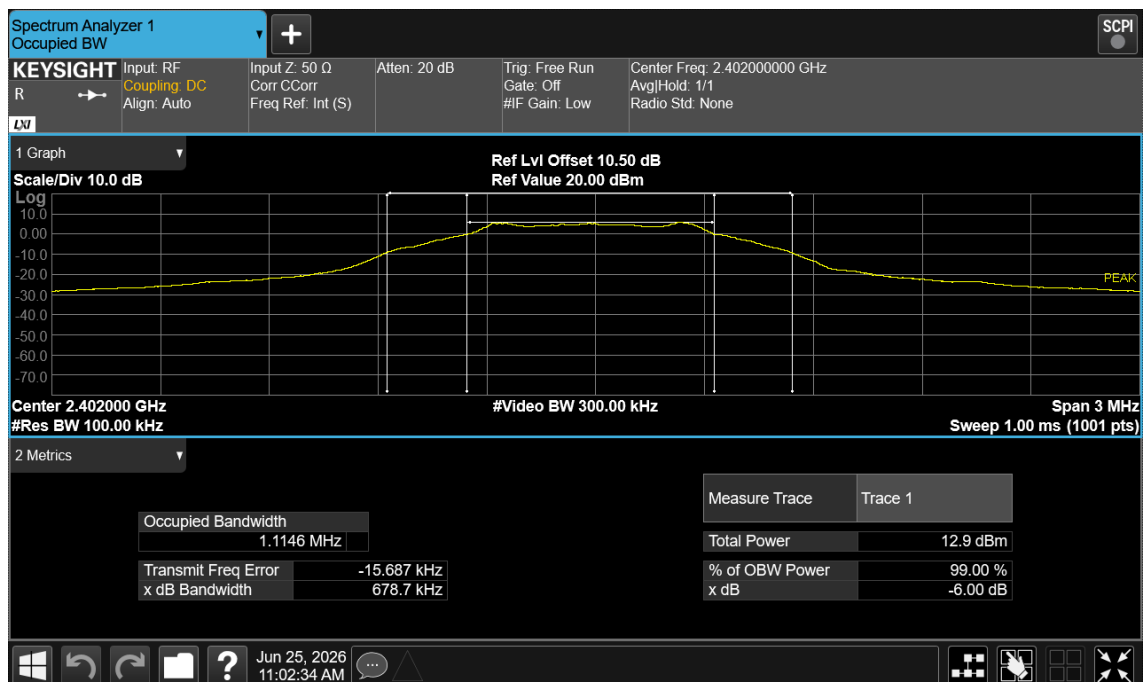
Appendix D. Bandwidth Measurement

Only the worst-case plots are presented herein. all of which were found to be in compliance with the rule.

6dB Bandwidth

<1Mbps>

Channel	Channel Frequency	6dB Bandwidth	Minimum Limit (MHz)
	(MHz)	(MHz)	
Low Channel	2402	0.679	0.5
Middle Channel	2440	0.700	0.5
High Channel	2480	0.715	0.5

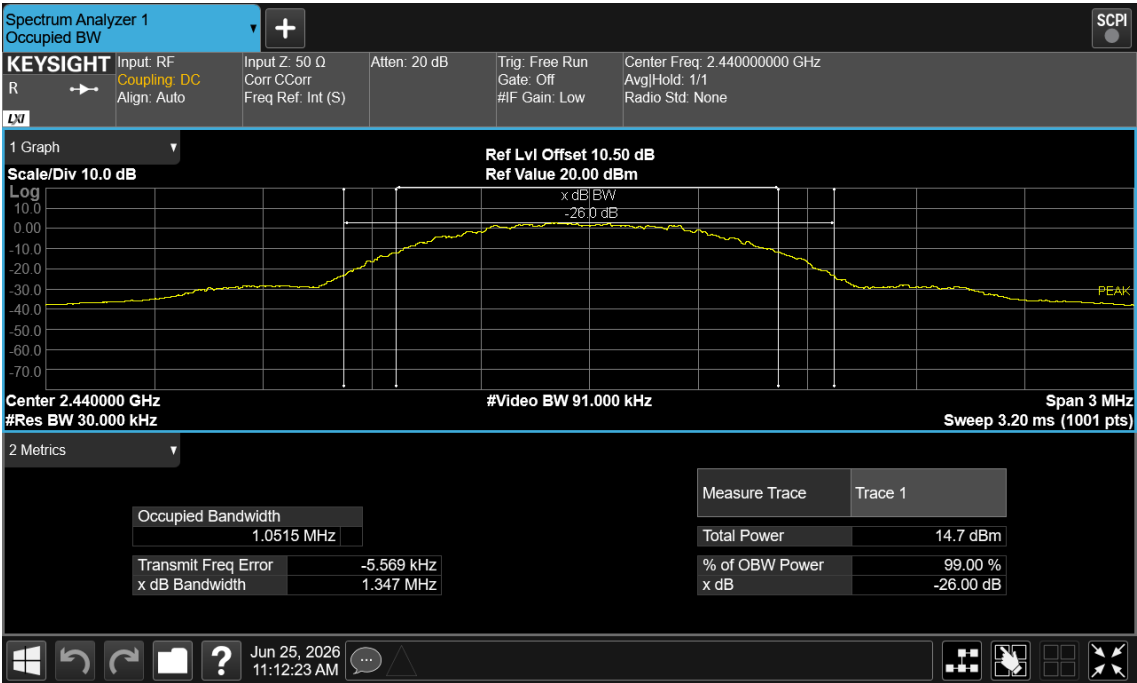




99% Bandwidth

<1Mbps>

Channel	Channel Frequency	99% Bandwidth
	(MHz)	(MHz)
Low Channel	2402	1.051
Middle Channel	2440	1.052
High Channel	2480	1.046





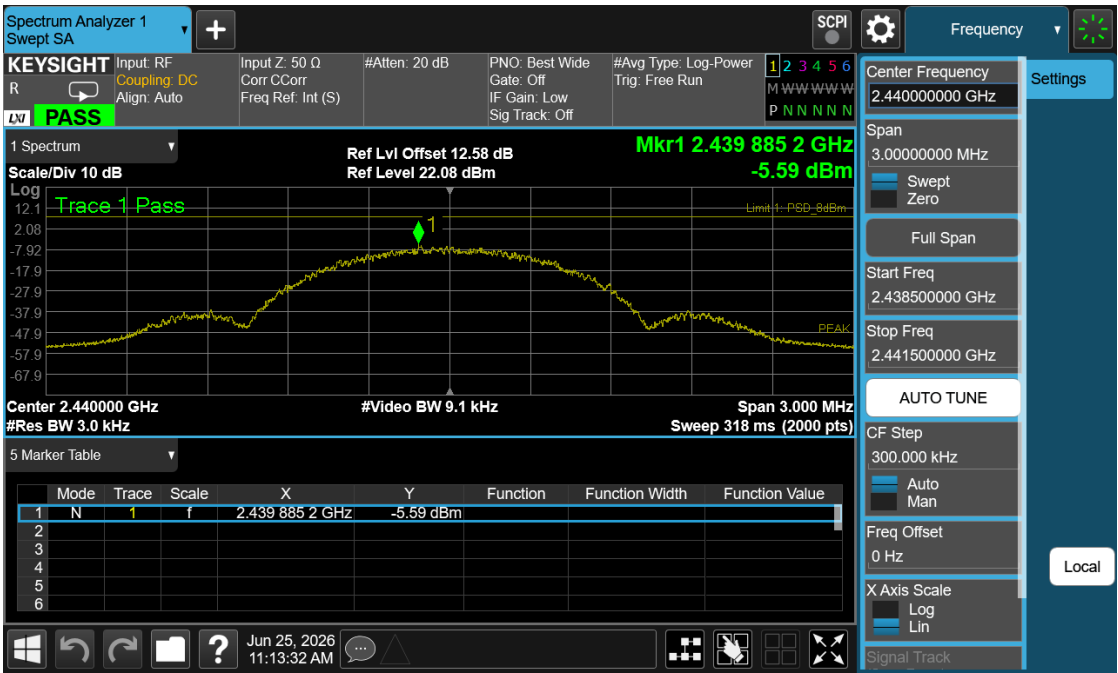
Appendix E Peak Power Spectral Density

Only the worst-case plots are presented herein. all of which were found to be in compliance with the rule.

Power Density

<1Mbps>

Channel	Channel Frequency	Power Density	Limit (dBm/3kHz)
	(MHz)	(dBm/3kHz)	
Low Channel	2402	-5.664	8
Middle Channel	2440	-5.594	8
High Channel	2480	-10.162	8

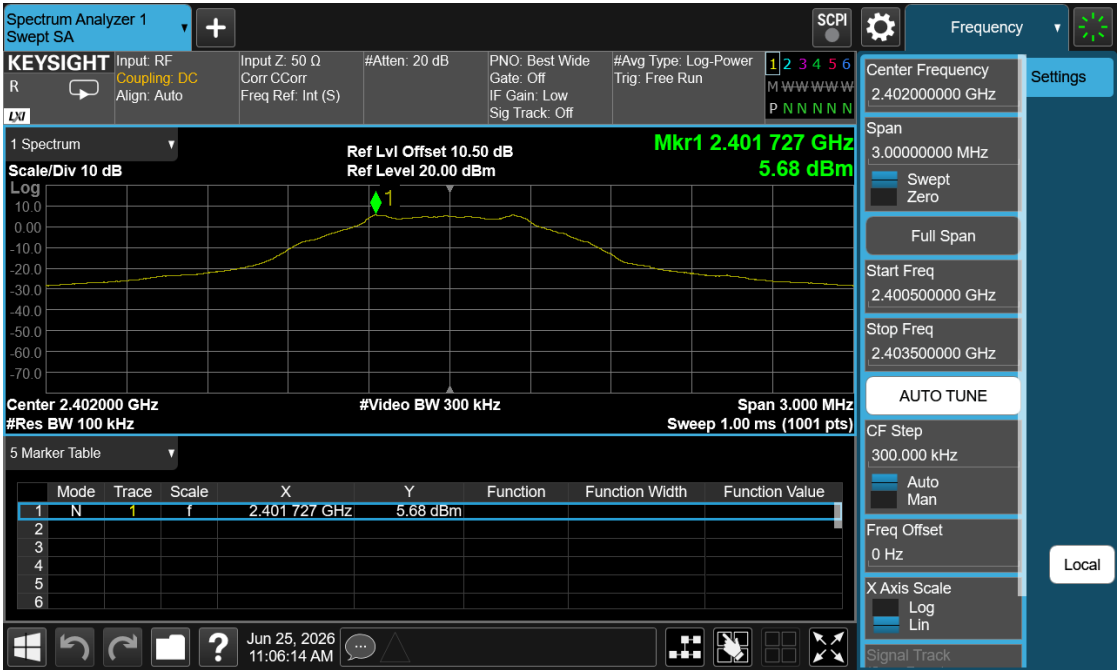




Appendix F. Conducted Spurious Emission

Reference <1Mbps>

<Lowest Channel>



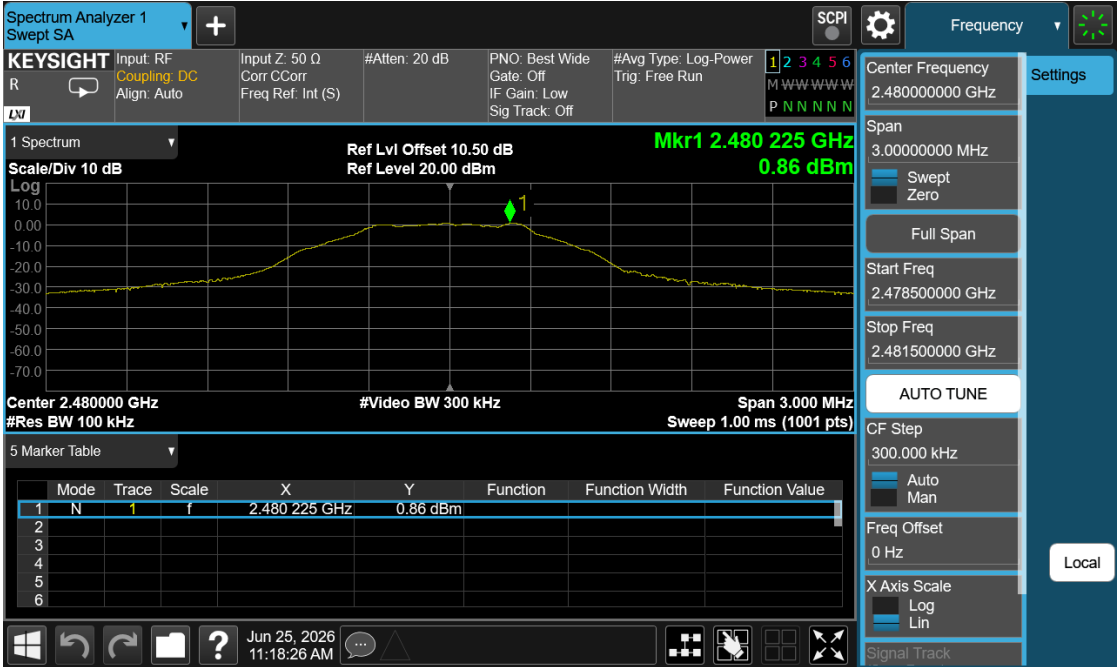
<Middle Channel>





Reference <1Mbps>

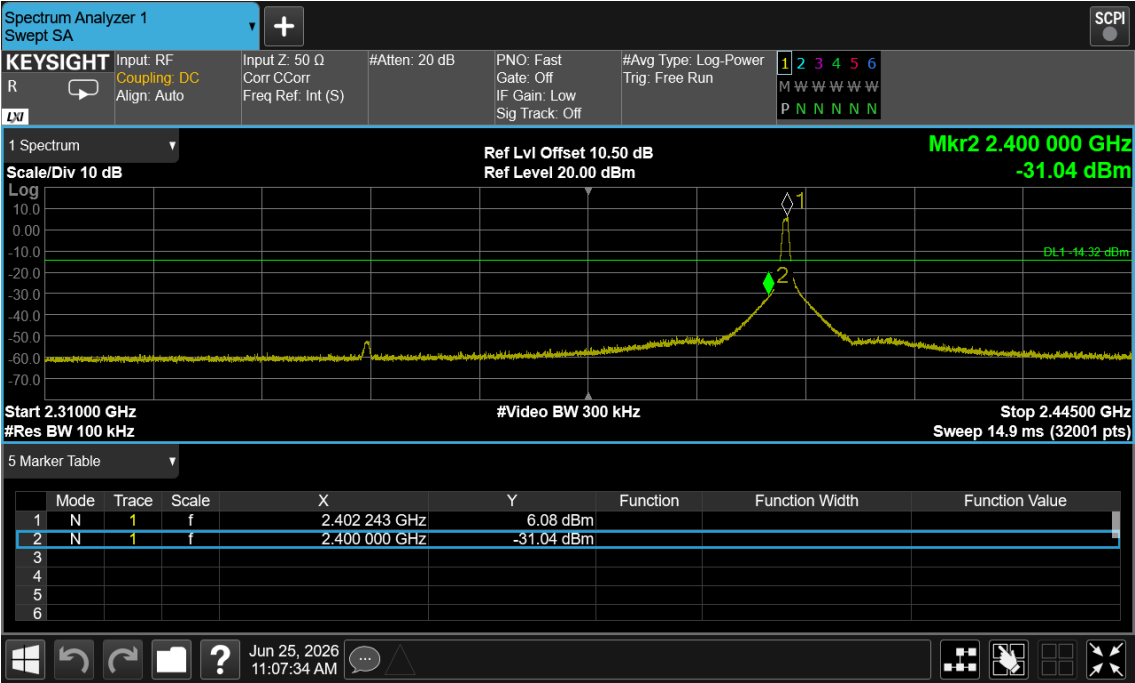
<Highest Channel>



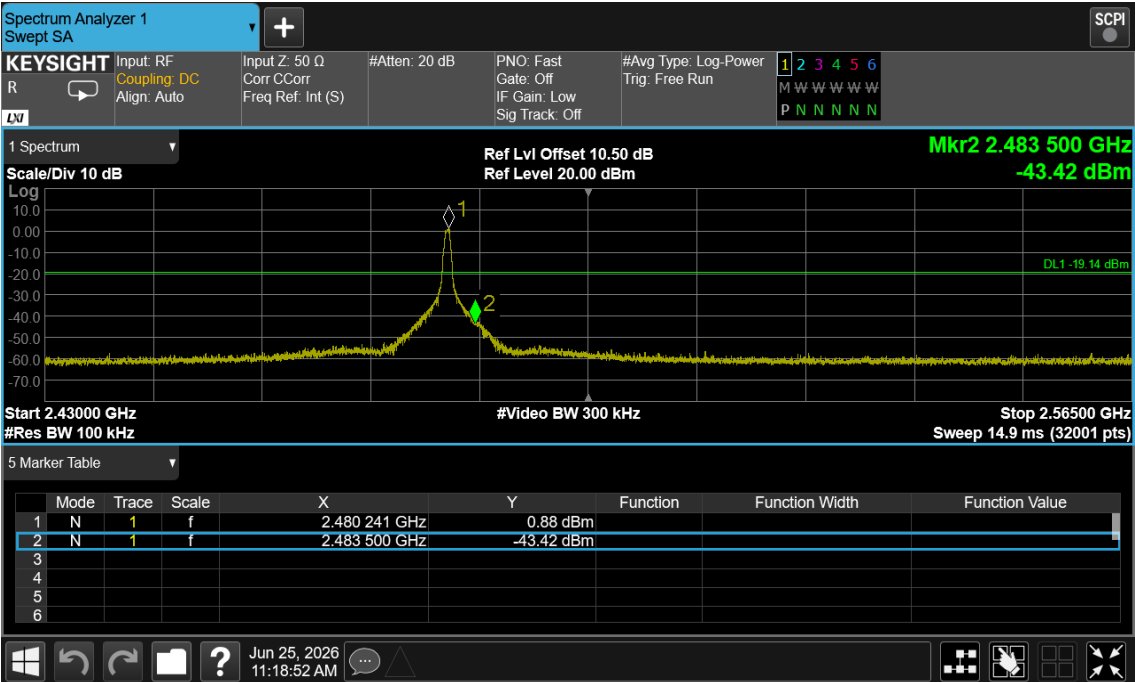


Band Edges<1Mbps>

<Lowest Channel>

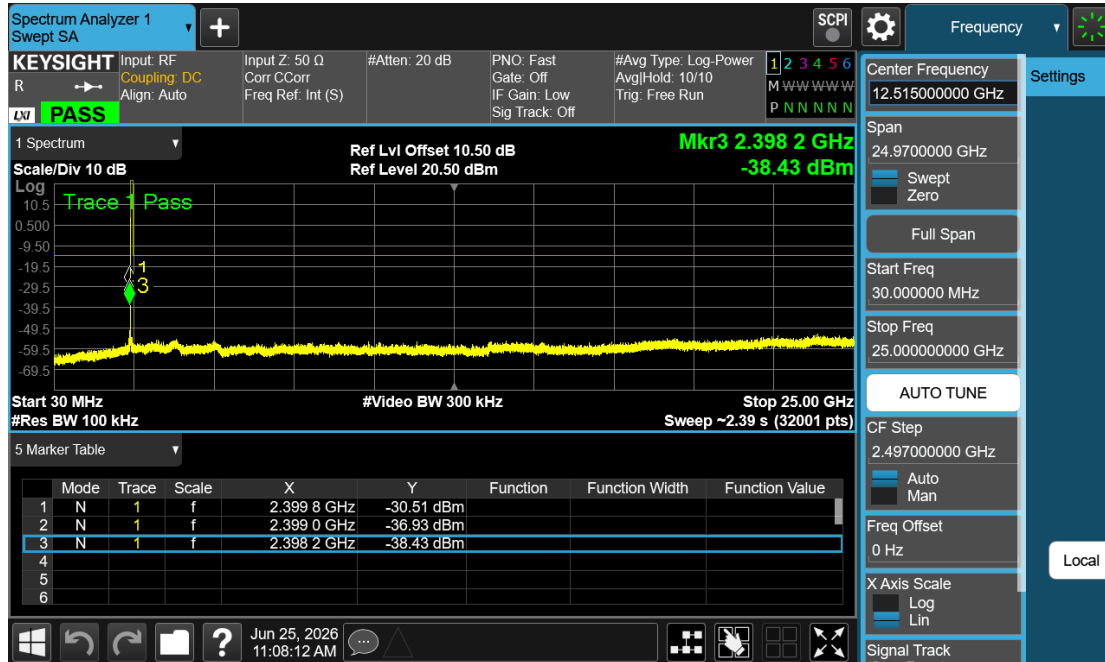


<Highest Channel>

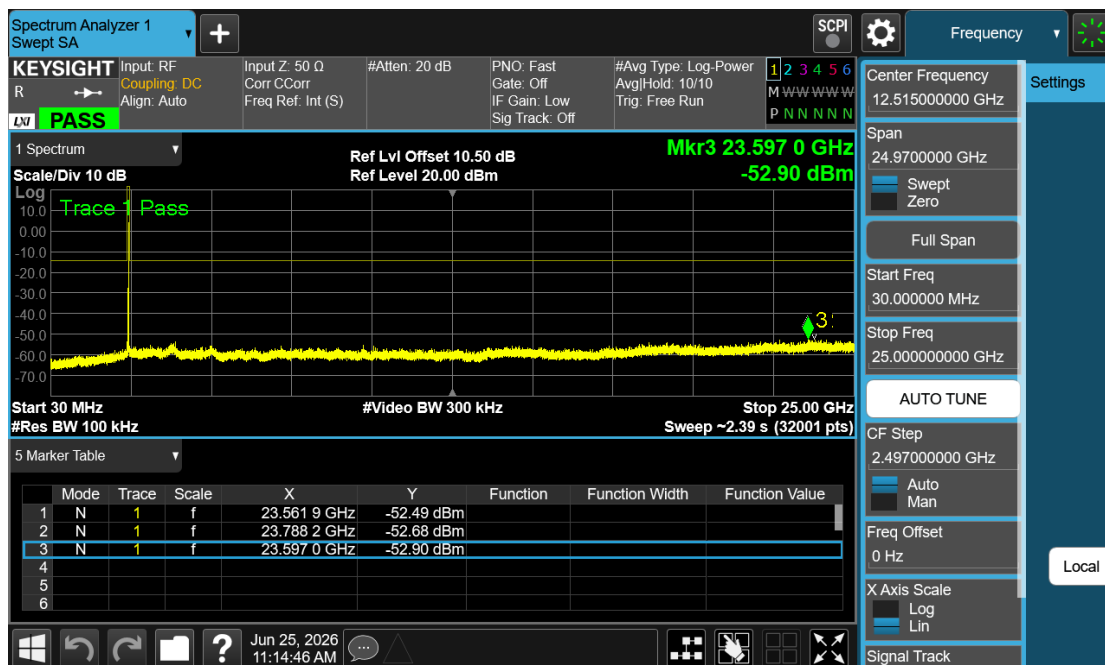


Conducted Spurious Emissions <1Mbps>

<Lowest Channel>

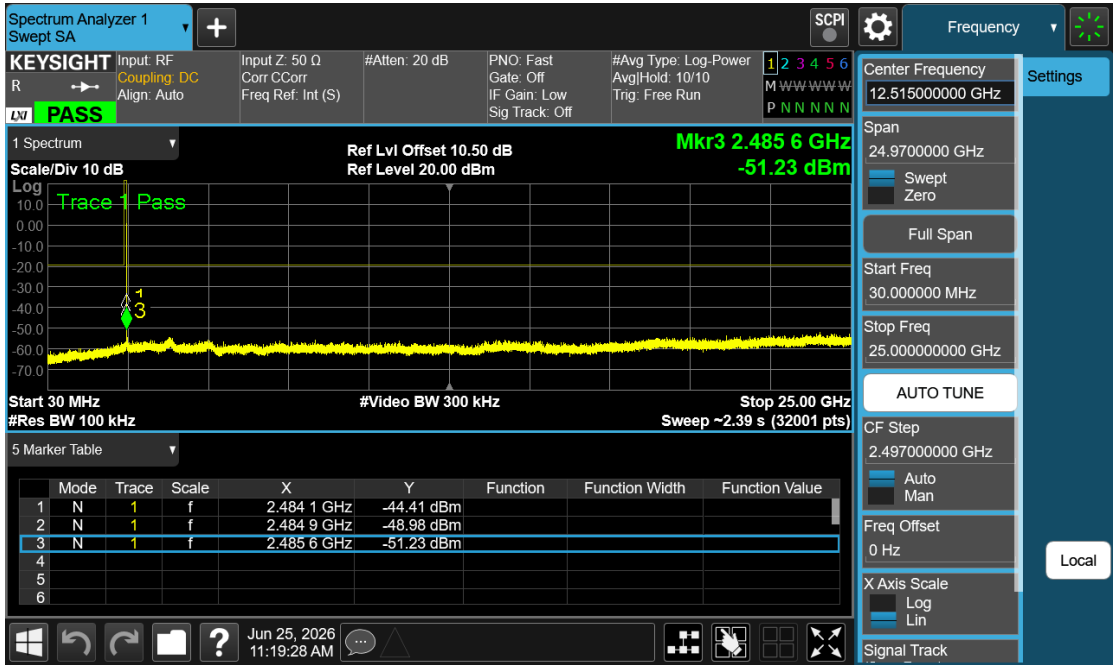


<Middle Channel>





Conducted Spurious Emissions <1Mbps>
< Highest Channel >



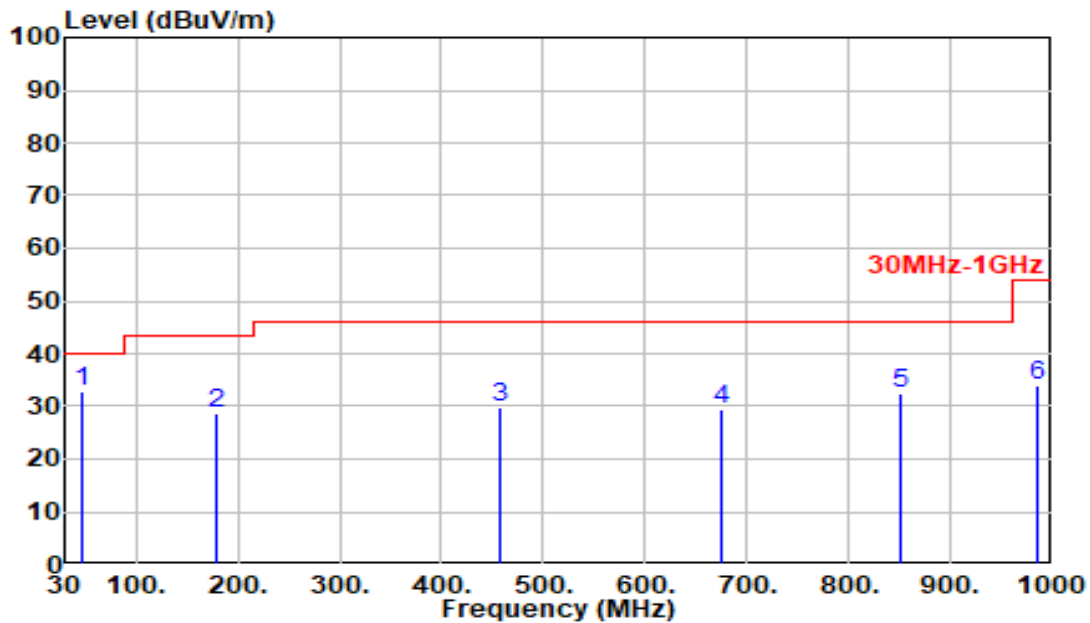
Appendix G. Radiated Spurious Emissions and Band Edges

Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

Report :6128626044101
 Test Site :Chamber B
 Antenna Pol :Vertical
 Test Mode :Tx 2440 MHz(BLE 1M)
 Power setting :7
 Note :

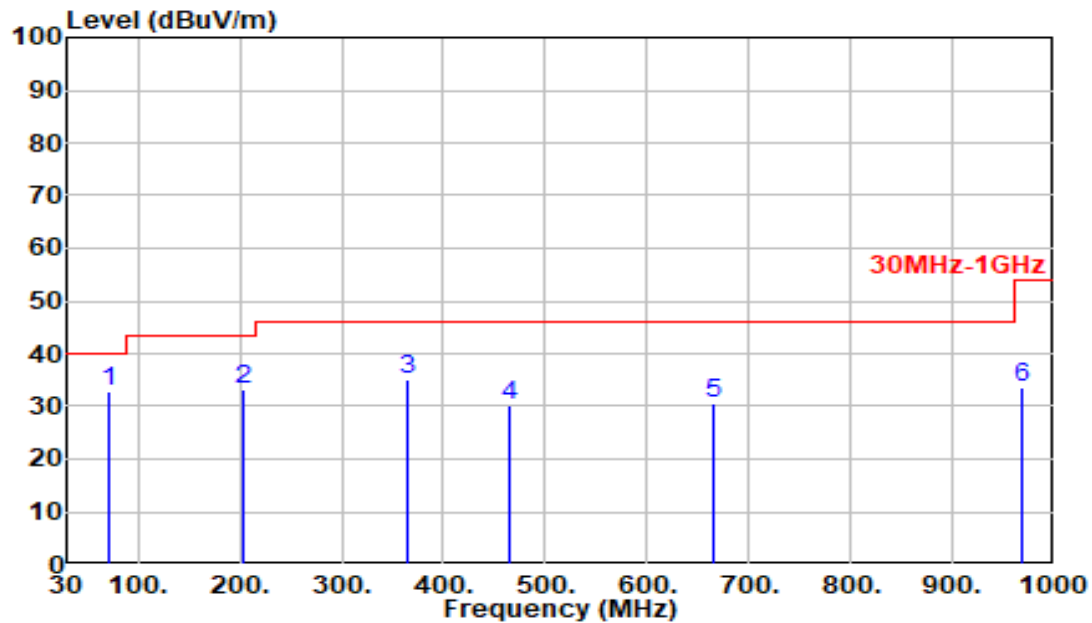
Date :2026-06-23
 Temp/Humi :21.8°C/61%
 Test Engineer :Kevin Syu
 Plane :Y Plane
 Voltage :5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
46.490	44.30	-11.57	32.73	40.00	-7.27	Peak	214	97
178.410	41.90	-13.12	28.78	43.50	-14.72	Peak	139	107
456.800	36.57	-6.77	29.80	46.00	-16.20	Peak	226	231
676.020	31.98	-2.69	29.29	46.00	-16.71	Peak	301	141
851.590	32.80	-0.25	32.55	46.00	-13.45	Peak	226	360
985.450	32.42	1.73	34.15	54.00	-19.85	Peak	311	360

Report :6128626044101
 Test Site :Chamber B
 Antenna Pol :Horizontal
 Test Mode :Tx 2440 MHz(BLE 1M)
 Power setting :7
 Note :

Date :2026-06-23
 Temp/Humi :21.8°C/61%
 Test Engineer :Kevin Syu
 Plane :Y Plane
 Voltage :5Vdc from Adapter



Freq. MHz	Read LV. dBuV	Factor dB/m	Emission LV dBuV/m	Limit dBuV/m	Margin dB	Detector	Apos CM	TPos DEG
70.740	47.06	-14.24	32.82	40.00	-7.18	Peak	217	225
203.630	48.29	-15.08	33.21	43.50	-10.29	Peak	157	209
365.620	44.70	-9.55	35.15	46.00	-10.85	Peak	169	113
465.530	36.90	-6.65	30.25	46.00	-15.75	Peak	266	329
664.380	33.50	-2.88	30.62	46.00	-15.38	Peak	307	211
967.990	31.92	1.54	33.46	54.00	-20.54	Peak	315	324



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Vertical

:Tx 2402 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

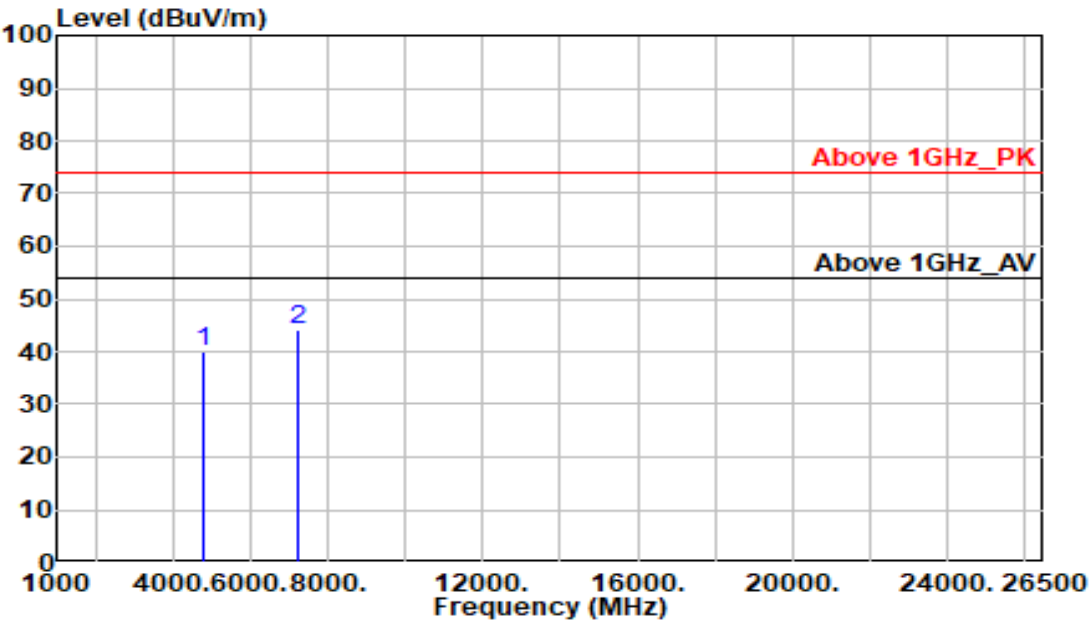
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
4804.000	35.11	4.72	39.83	74.00	-34.17	Peak	214	211
7206.000	35.07	9.03	44.10	74.00	-29.90	Peak	318	198



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Horizontal

:Tx 2402 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

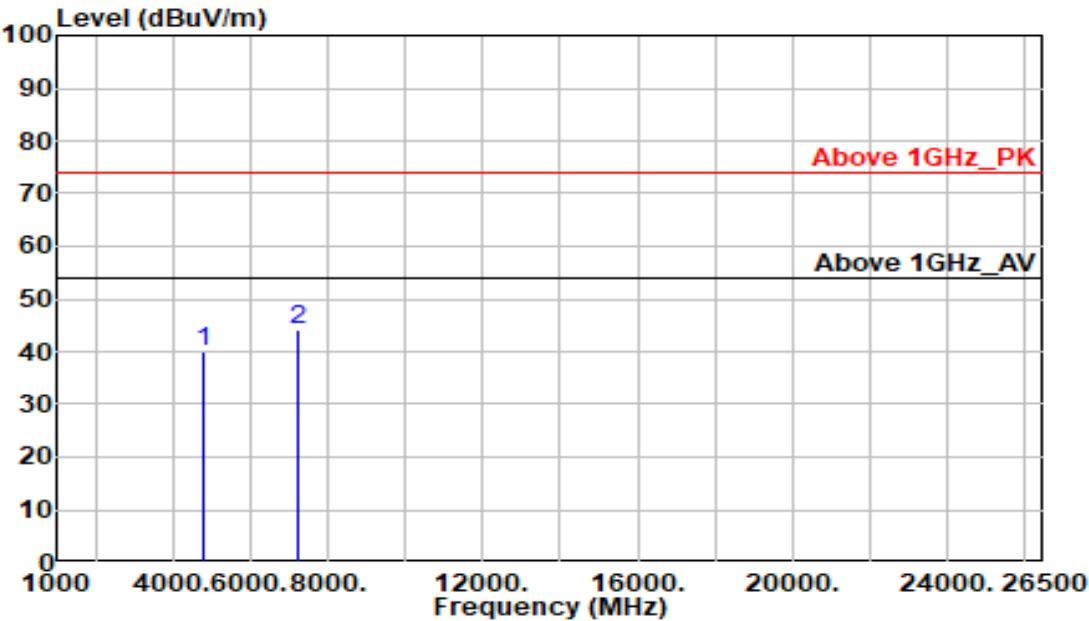
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
4804.000	35.11	4.72	39.83	74.00	-34.17	Peak	118	329
7206.000	34.97	9.03	44.00	74.00	-30.00	Peak	294	198



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Vertical

:Tx 2440 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

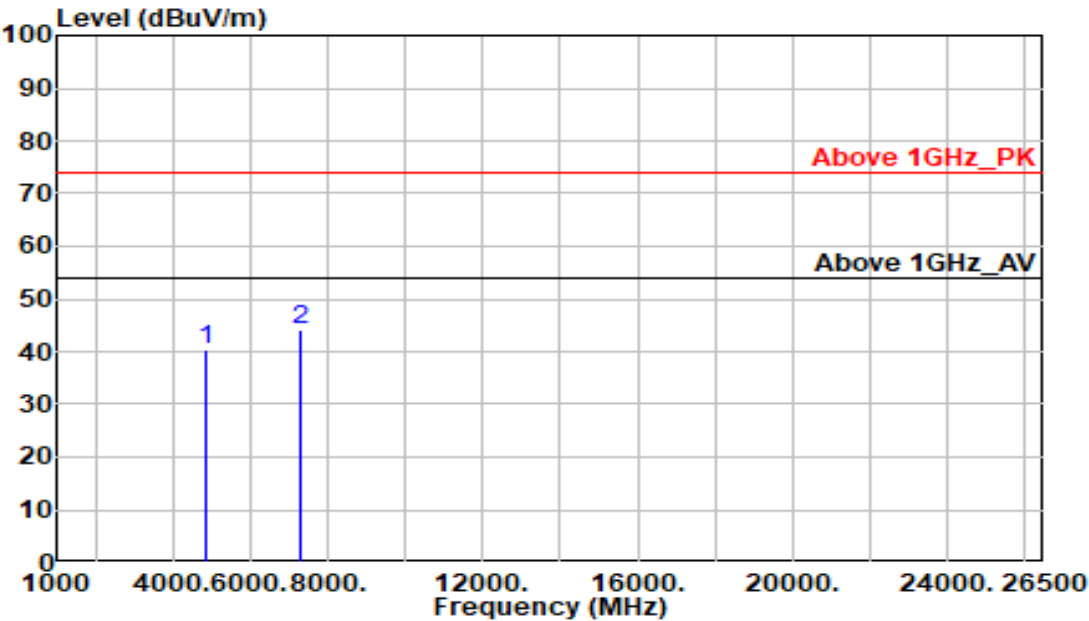
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
4880.000	35.39	4.83	40.22	74.00	-33.78	Peak	248	197
7320.000	35.07	9.04	44.11	74.00	-29.89	Peak	164	330



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Horizontal

:Tx 2440 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

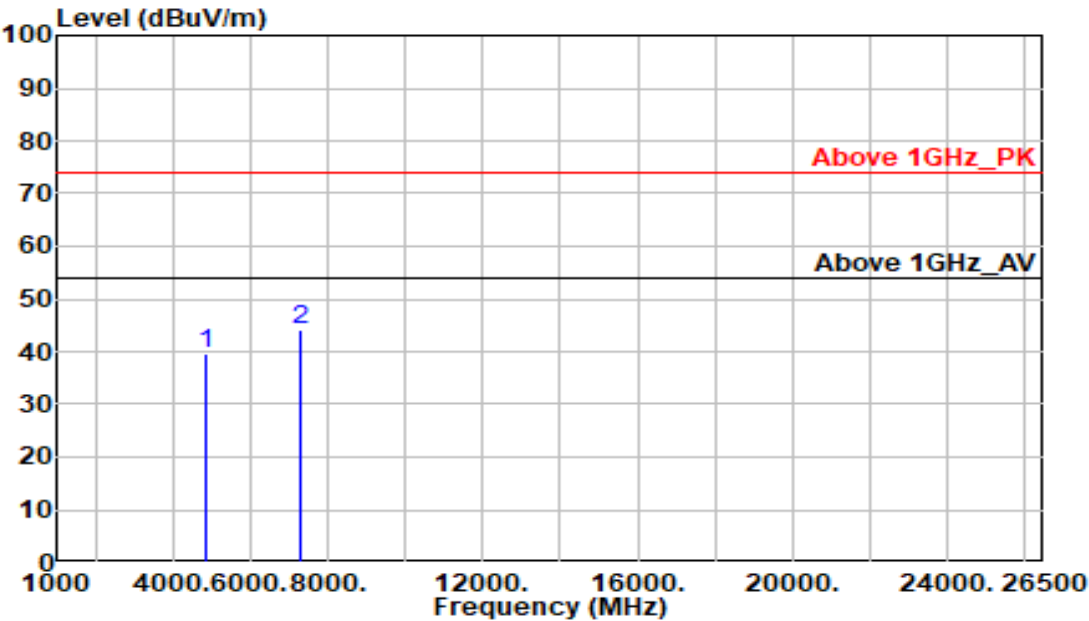
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
4880.000	34.68	4.83	39.51	74.00	-34.49	Peak	204	344
7320.000	35.06	9.04	44.10	74.00	-29.90	Peak	169	11

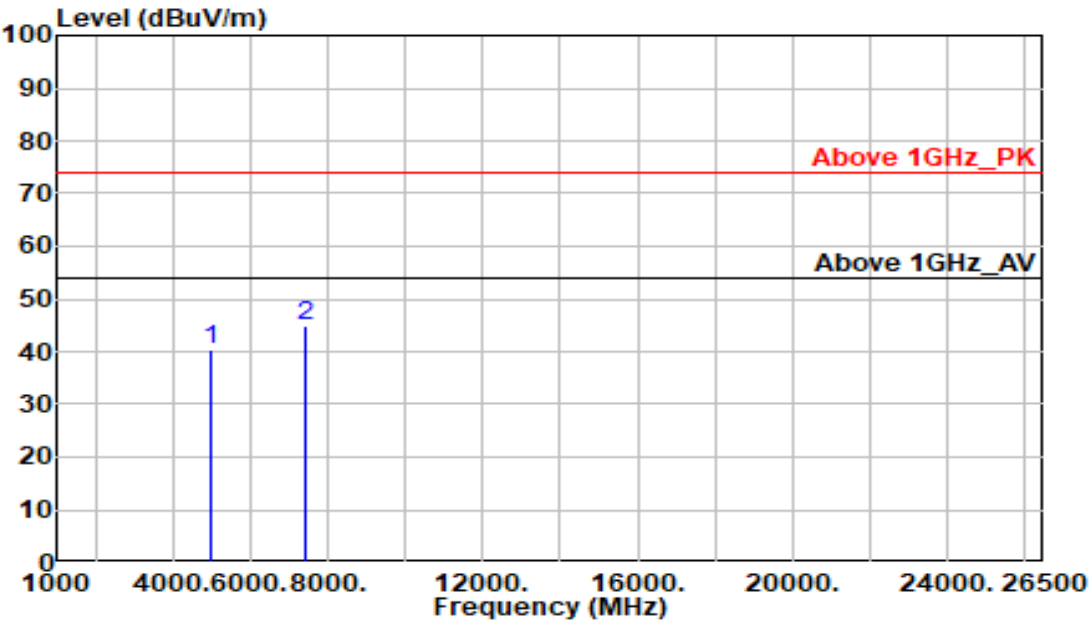


Report
Test Site
Antenna Pol
Test Mode
Power setting
Note

:6128626044101
:Chamber B
:Vertical
:Tx 2480 MHz(BLE 1M)
:2.5
:

Date
Temp/Humi
Test Engineer
Plane
Voltage

:2026-06-23
:21.8°C/61%
:Kevin Syu
:Y Plane
:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
4960.000	35.43	4.99	40.42	74.00	-33.58	Peak	311	220
7440.000	35.85	9.11	44.96	74.00	-29.04	Peak	247	165



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Horizontal

:Tx 2480 MHz(BLE 1M)

:2.5

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

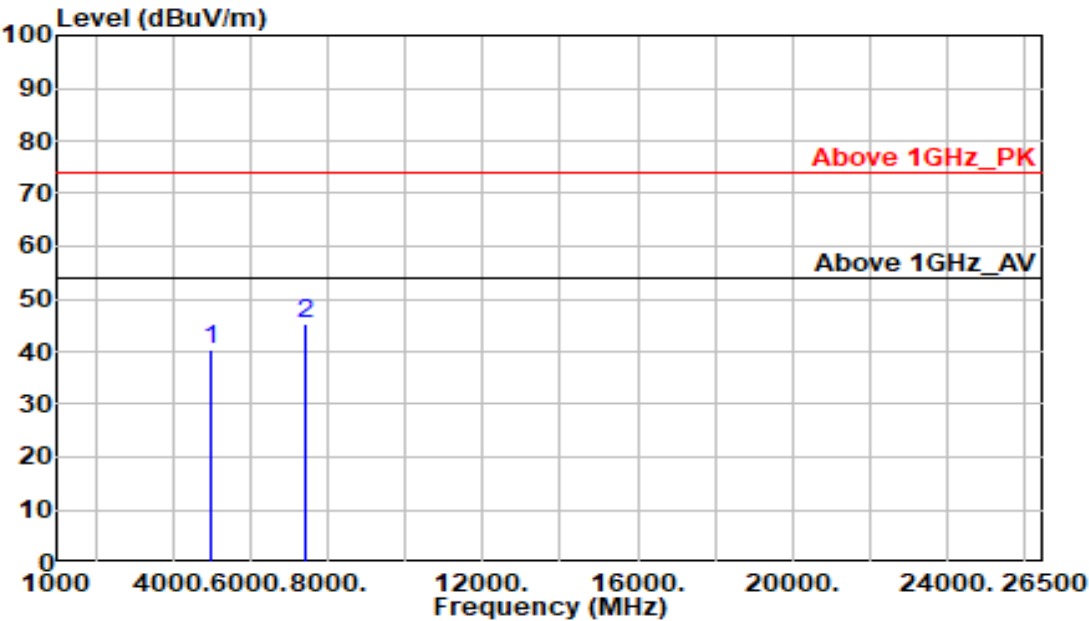
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
4960.000	35.29	4.99	40.28	74.00	-33.72	Peak	251	332
7440.000	36.01	9.11	45.12	74.00	-28.88	Peak	193	246



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Vertical

:Bandedge 2402 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

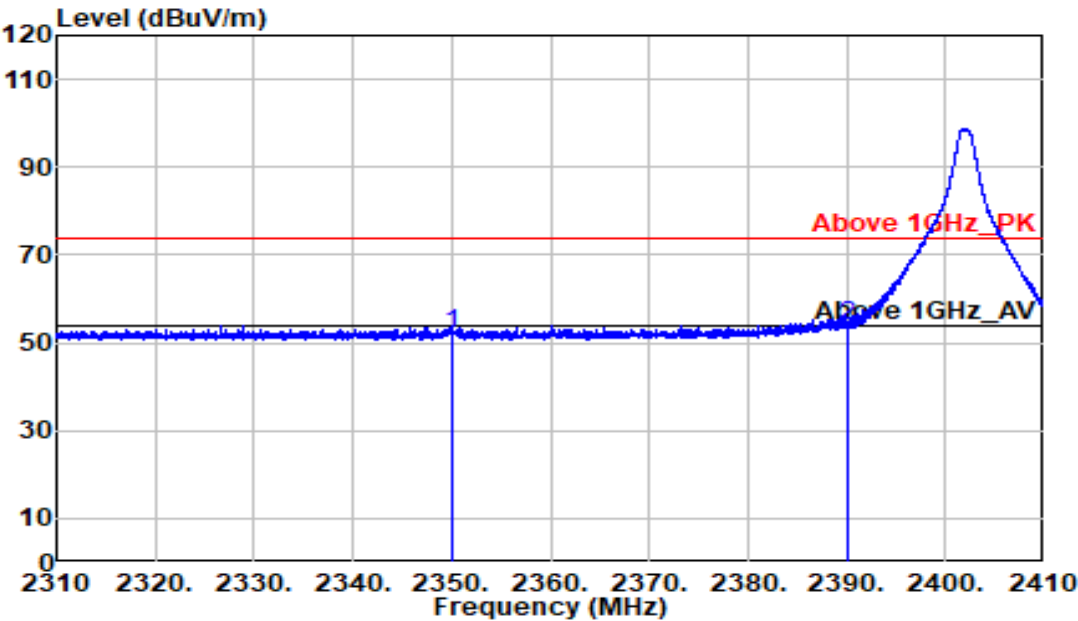
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2349.975	55.00	-2.76	52.24	74.00	-21.76	Peak	115	64
2390.000	56.76	-2.65	54.10	74.00	-19.90	Peak	115	64



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Vertical

:Bandedge 2402 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

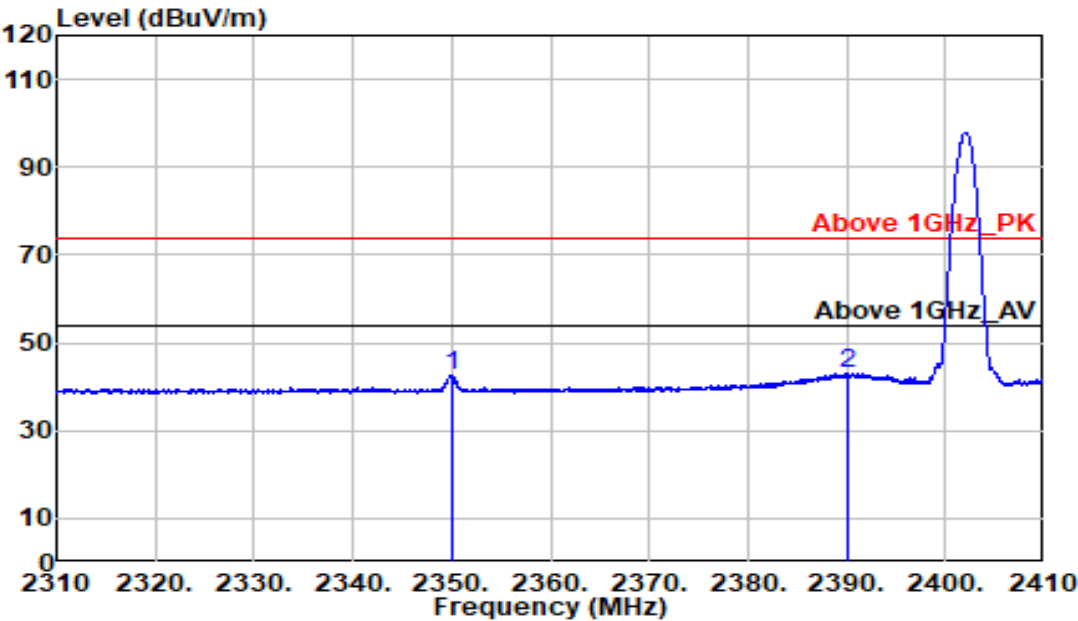
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2349.975	45.32	-2.72	42.60	54.00	-11.40	Average	115	64
2390.000	45.59	-2.60	42.99	54.00	-11.01	Average	115	64



Report

:6128626044101

Test Site

:Chamber B

Antenna Pol

:Horizontal

Test Mode

:Bandedge 2402 MHz(BLE 1M)

Power setting

:7

Note

:

Date

:2026-06-23

Temp/Humi

:21.8°C/61%

Test Engineer

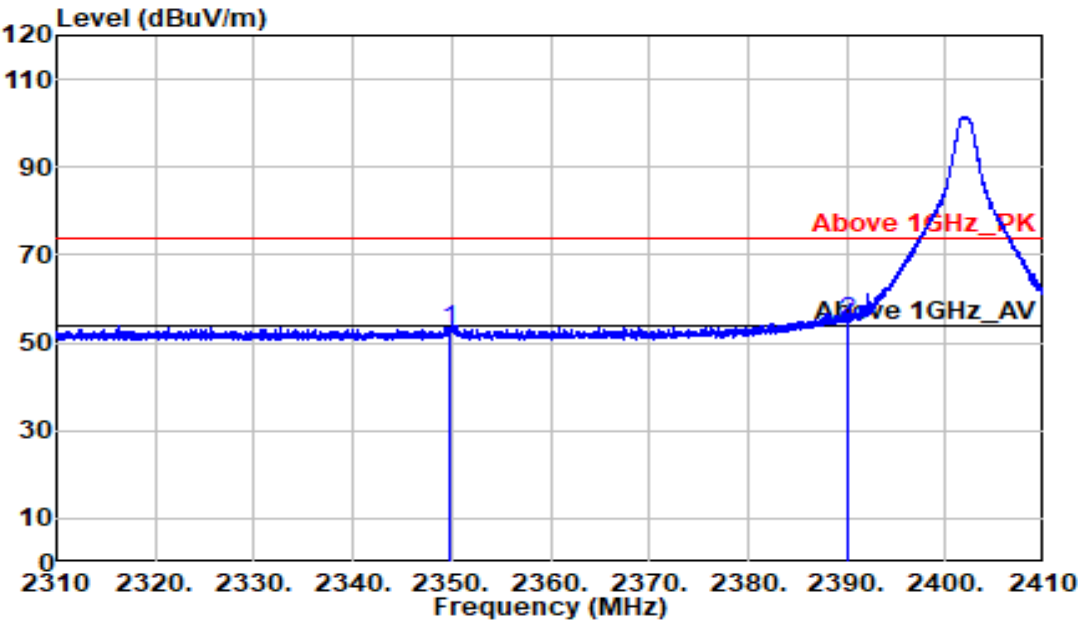
:Kevin Syu

Plane

:Y Plane

Voltage

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2349.850	55.93	-2.72	53.20	74.00	-20.80	Peak	127	342
2390.000	57.49	-2.60	54.90	74.00	-19.10	Peak	127	342



Report

:6128626044101

Test Site

:Chamber B

Antenna Pol

:Horizontal

Test Mode

:Bandedge 2402 MHz(BLE 1M)

Power setting

:7

Note

:

Date

:2026-06-23

Temp/Humi

:21.8°C/61%

Test Engineer

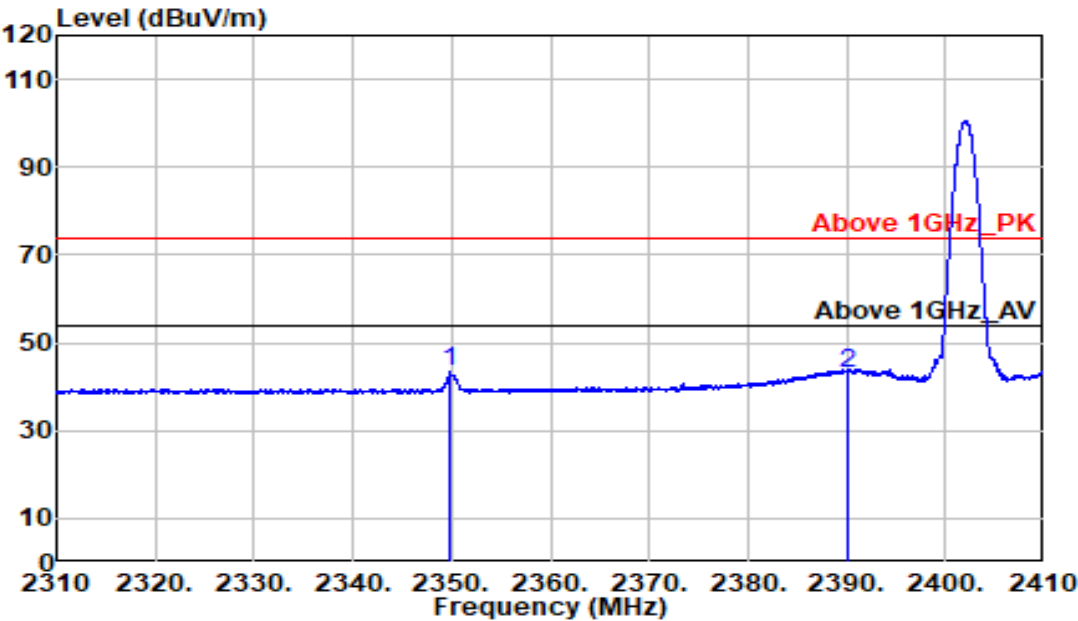
:Kevin Syu

Plane

:Y Plane

Voltage

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2349.850	46.08	-2.76	43.32	54.00	-10.68	Average	127	342
2390.000	45.74	-2.65	43.08	54.00	-10.92	Average	127	342



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Vertical

:Bandedge 2478 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

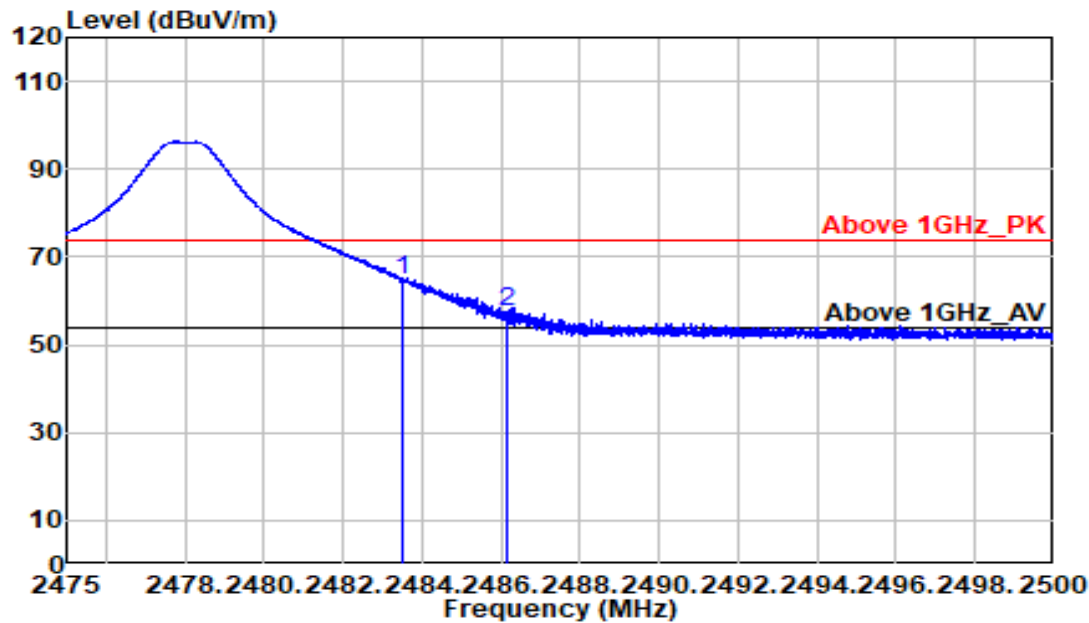
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	67.34	-2.40	64.94	74.00	-9.06	Peak	111	73
2486.125	60.10	-2.39	57.72	74.00	-16.28	Peak	111	73



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Vertical

:Bandedge 2478 MHz(BLE 1M)

:7

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

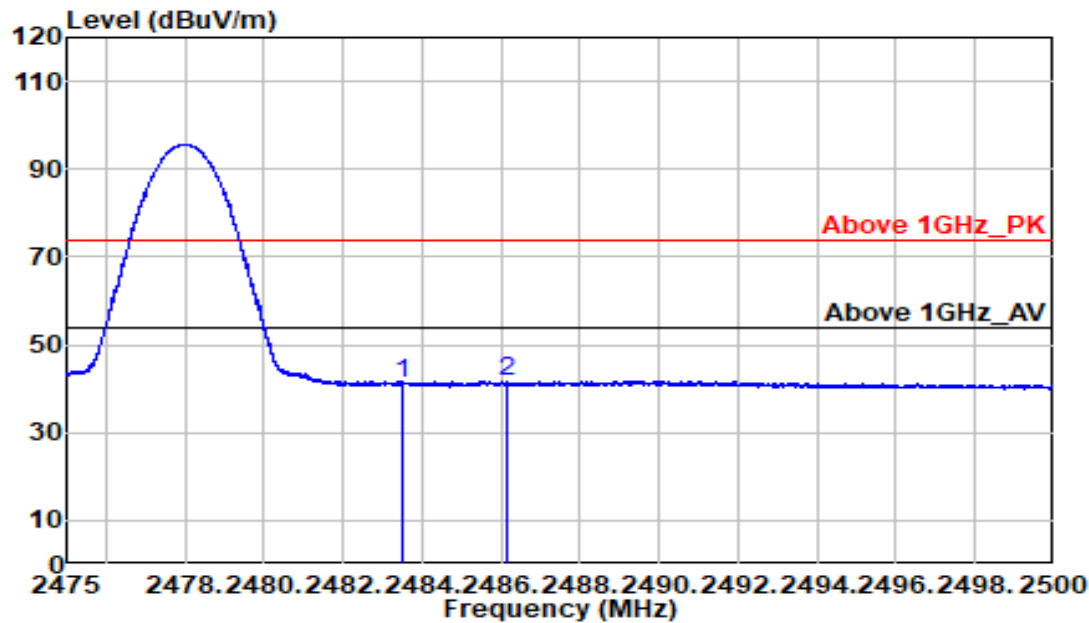
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	570.44	-529.07	41.37	54.00	-12.63	Average	111	73
2486.125	570.93	-529.07	41.86	54.00	-12.14	Average	111	73



Report

:6128626044101

Test Site

:Chamber B

Antenna Pol

:Horizontal

Test Mode

:Bandedge 2478 MHz(BLE 1M)

Power setting

:7

Note

:

Date

:2026-06-23

Temp/Humi

:21.8°C/61%

Test Engineer

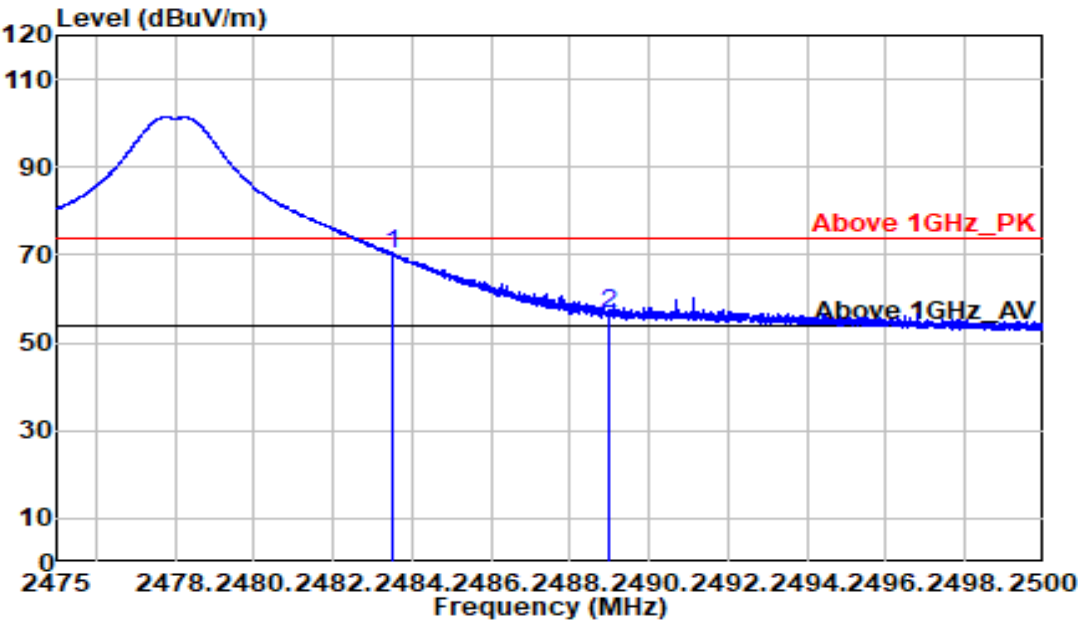
:Kevin Syu

Plane

:Y Plane

Voltage

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	72.40	-2.40	70.00	74.00	-4.00	Peak	104	324
2488.994	59.17	-2.38	56.79	74.00	-17.21	Peak	104	324



Report

:6128626044101

Test Site

:Chamber B

Antenna Pol

:Horizontal

Test Mode

:Bandedge 2478 MHz(BLE 1M)

Power setting

:7

Note

:

Date

:2026-06-23

Temp/Humi

:21.8°C/61%

Test Engineer

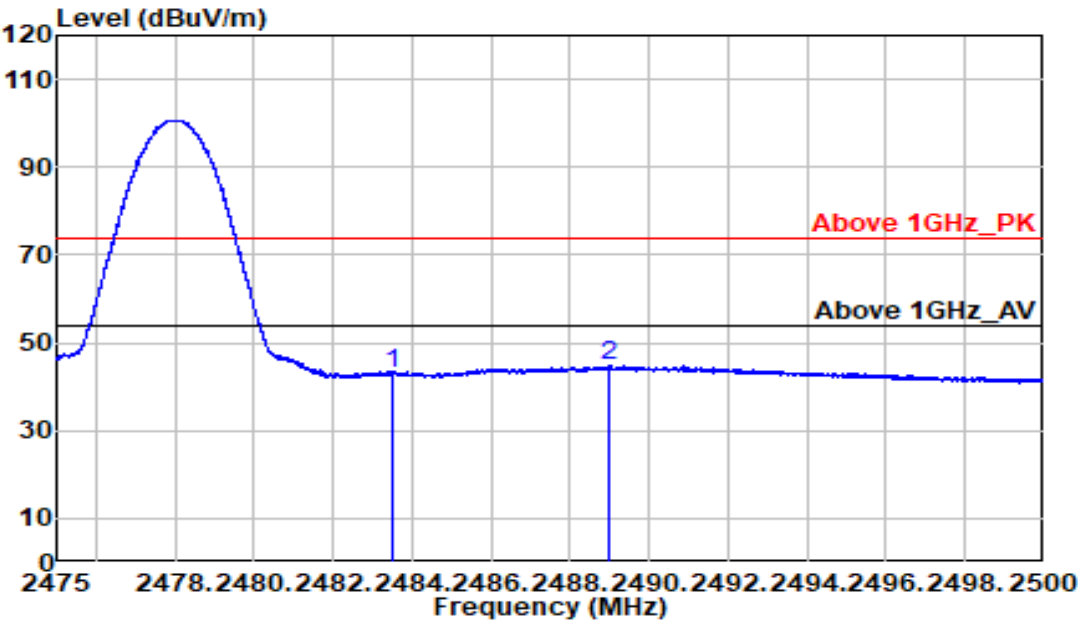
:Kevin Syu

Plane

:Y Plane

Voltage

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	45.30	-2.40	42.90	54.00	-11.10	Average	104	324
2488.994	47.09	-2.38	44.71	54.00	-9.29	Average	104	324



Report

:6128626044101

Test Site

:Chamber B

Antenna Pol

:Vertical

Test Mode

:Bandedge 2480 MHz(BLE 1M)

Power setting

:2.5

Note

:

Date

:2026-06-23

Temp/Humi

:21.8°C/61%

Test Engineer

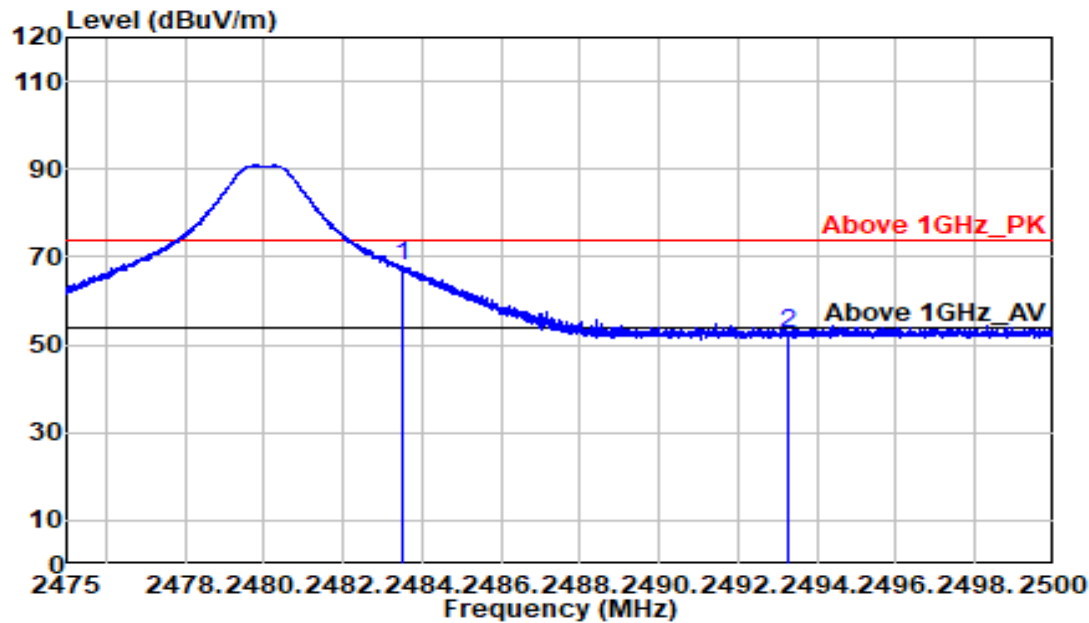
:Kevin Syu

Plane

:Y Plane

Voltage

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	70.16	-2.40	67.76	74.00	-6.24	Peak	112	74
2493.244	55.05	-2.37	52.69	74.00	-21.31	Peak	112	74

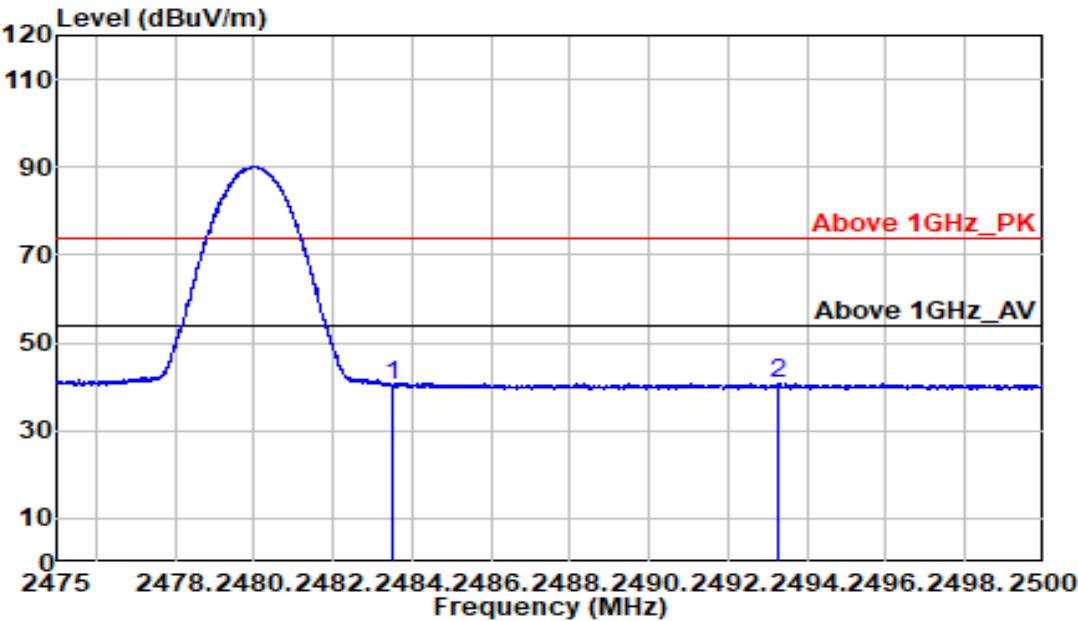


Report
Test Site
Antenna Pol
Test Mode
Power setting
Note

:6128626044101
:Chamber B
:Vertical
:Bandedge 2480 MHz(BLE 1M)
:2.5
:

Date
Temp/Humi
Test Engineer
Plane
Voltage

:2026-06-23
:21.8°C/61%
:Kevin Syu
:Y Plane
:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	569.51	-529.07	40.43	54.00	-13.57	Average	112	74
2493.244	569.78	-529.06	40.72	54.00	-13.28	Average	112	74



Report

:6128626044101

Test Site

:Chamber B

Antenna Pol

:Horizontal

Test Mode

:Bandedge 2480 MHz(BLE 1M)

Power setting

:2.5

Note

:

Date

:2026-06-23

Temp/Humi

:21.8°C/61%

Test Engineer

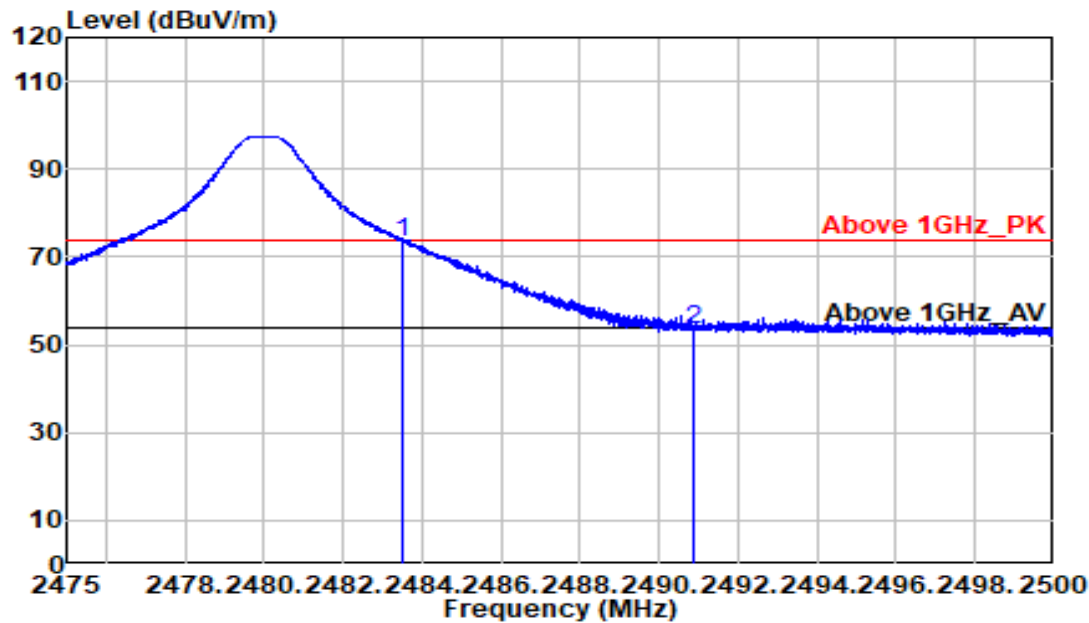
:Kevin Syu

Plane

:Y Plane

Voltage

:5Vdc from Adapter



Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	75.79	-2.40	73.40	74.00	-0.60	Peak	141	337
2490.875	55.81	-2.38	53.44	74.00	-20.56	Peak	141	337



Report

Test Site

Antenna Pol

Test Mode

Power setting

Note

:6128626044101

:Chamber B

:Horizontal

:Bandedge 2480 MHz(BLE 1M)

:2.5

:

Date

Temp/Humi

Test Engineer

Plane

Voltage

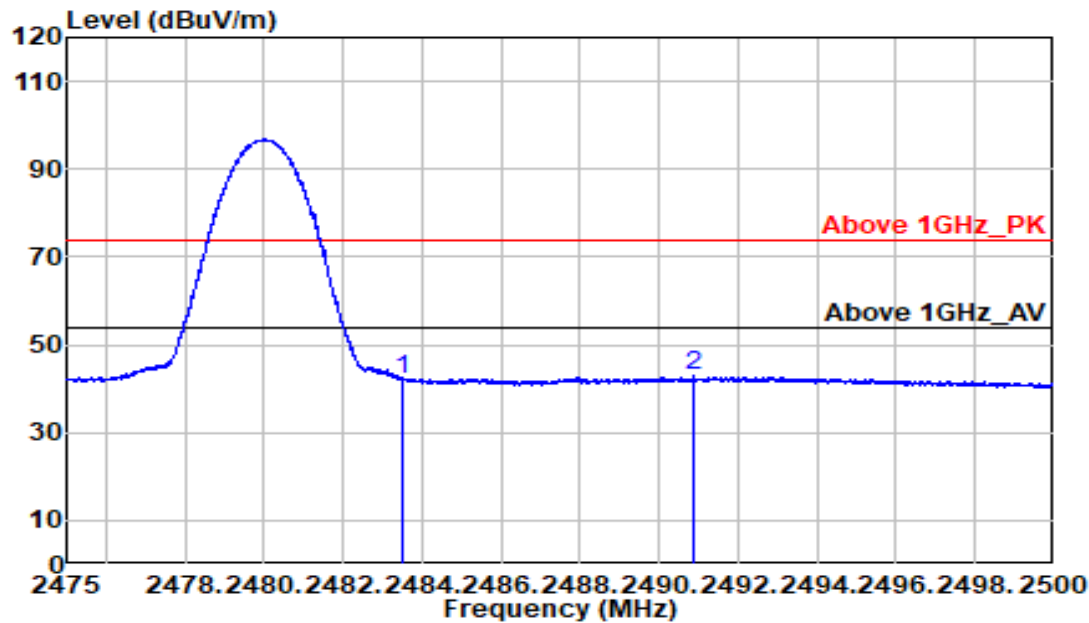
:2026-06-23

:21.8°C/61%

:Kevin Syu

:Y Plane

:5Vdc from Adapter

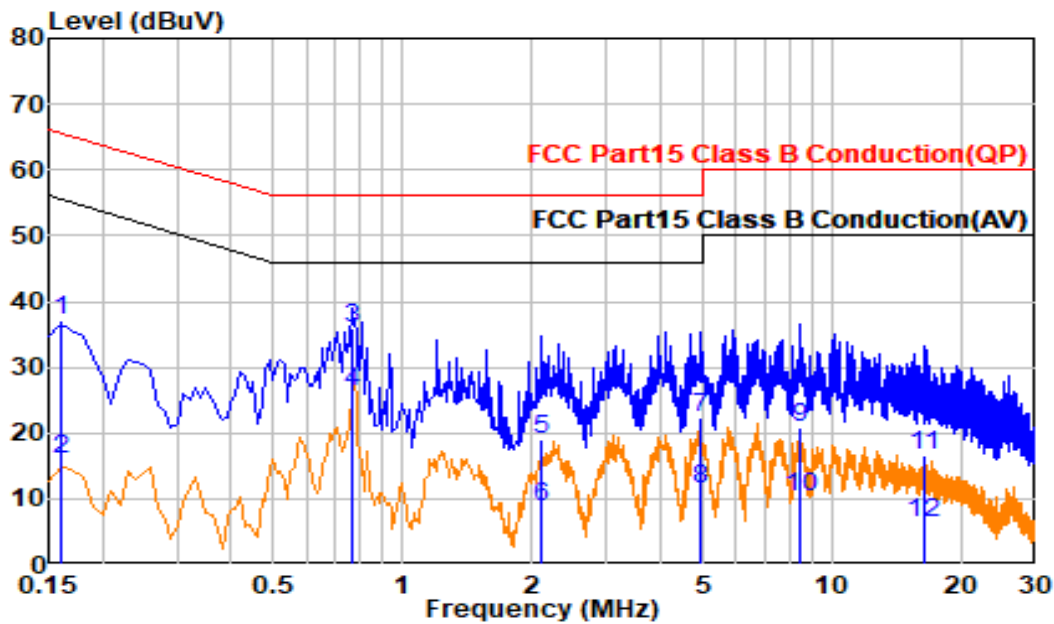


Freq.	Read LV.	Factor	Emission LV	Limit	Margin	Detector	Apos	TPos
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		CM	DEG
2483.500	44.55	-2.40	42.15	54.00	-11.85	Average	141	337
2490.875	45.40	-2.38	43.02	54.00	-10.98	Average	141	337

Appendix H. AC Power Line Conducted Emission Measurement

Report :6128626044101
 Test Site :Shielded Room A
 Condition :Line
 Test Mode :(BLE)
 Note :

Date :2026-06-29
 Temp/Humi :22.9C/65%
 Test Engineer :Kevin Syu
 Voltage :120V/60Hz

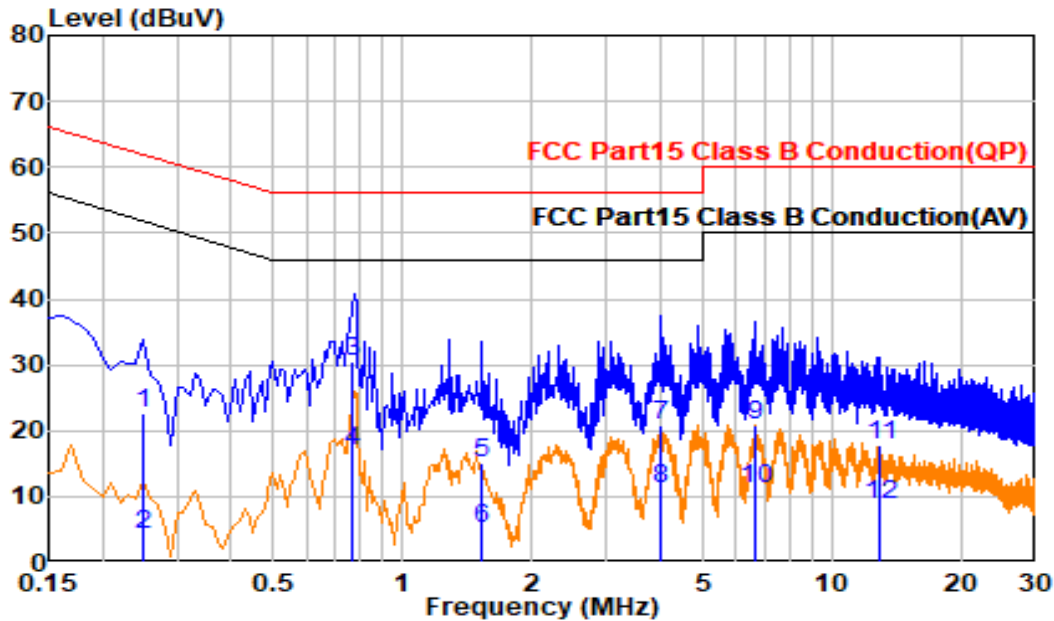


Trace: 1

Freq	Read LV.	Factor	Cable Loss	LISN Factor	Emission LV	Limit	Margin	Detect
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	QP/AV
0.160	27.44	9.61	0.01	9.60	37.05	65.46	-28.41	QP
0.160	6.28	9.61	0.01	9.60	15.89	55.46	-39.56	Average
0.760	26.20	9.61	0.02	9.60	35.81	56.00	-20.19	QP
0.760	16.50	9.61	0.02	9.60	26.11	46.00	-19.89	Average
2.116	9.38	9.64	0.03	9.61	19.02	56.00	-36.98	QP
2.116	-0.91	9.64	0.03	9.61	8.72	46.00	-37.28	Average
4.974	12.75	9.67	0.04	9.63	22.42	56.00	-33.58	QP
4.974	1.83	9.67	0.04	9.63	11.50	46.00	-34.50	Average
8.477	11.11	9.69	0.05	9.64	20.80	60.00	-39.20	QP
8.477	0.50	9.69	0.05	9.64	10.20	50.00	-39.80	Average
16.347	6.79	9.67	0.06	9.61	16.46	60.00	-43.54	QP
16.347	-3.44	9.67	0.06	9.61	6.23	50.00	-43.77	Average

Report :6128626044101
 Test Site :Shielded Room A
 Condition :Neutral
 Test Mode :(BLE)
 Note :

Date :2026-06-29
 Temp/Humi :22.9C/65%
 Test Engineer :Kevin Syu
 Voltage :120V/60Hz



Trace: 1

Freq	Read LV.	Factor	Cable Loss	LISN Factor	Emission LV	Limit	Margin	Detect
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	QP/AV
0.250	13.04	9.60	0.01	9.59	22.64	61.75	-39.11	QP
0.250	-5.29	9.60	0.01	9.59	4.31	51.75	-47.44	Average
0.769	20.74	9.61	0.02	9.60	30.35	56.00	-25.65	QP
0.769	7.30	9.61	0.02	9.60	16.91	46.00	-29.09	Average
1.529	5.55	9.62	0.02	9.60	15.17	56.00	-40.83	QP
1.529	-4.52	9.62	0.02	9.60	5.11	46.00	-40.89	Average
4.013	11.10	9.65	0.04	9.61	20.75	56.00	-35.25	QP
4.013	1.52	9.65	0.04	9.61	11.17	46.00	-34.83	Average
6.646	11.15	9.68	0.04	9.64	20.83	60.00	-39.17	QP
6.646	1.34	9.68	0.04	9.64	11.02	50.00	-38.98	Average
13.016	8.10	9.72	0.06	9.66	17.81	60.00	-42.19	QP
13.016	-0.99	9.72	0.06	9.66	8.72	50.00	-41.28	Average