

TEST REPORT

Product Name : Grid-connected PV Inverter
Model Number : S6-EH3P30K03-LV-YD-H-US,
S6-EH3P30K03-NV-YD-H-US,
S6-EH3P40K04-NV-YD-H-US,
S6-EH3P50K04-NV-YD-H-US,
S6-EH3P60K04-NV-YD-H-US
FCC ID : 2AWE8-S6EH3P-H

Prepared for : Ginlong Technologies Co., Ltd.
Address : No.57 Jintong Road, Binhai Industrial Park, Xiangshan
Ningbo, Zhejiang 315712 P.R. China

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Report Number : ENB2409290129W00101R
Date(s) of Tests : March 10, 2025 to April 09, 2025
Date of Issue : April 23, 2025

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1 TEST RESULT CERTIFICATION

Applicant : Ginlong Technologies Co., Ltd.

Address : No.57 Jintong Road, Binhai Industrial Park, Xiangshan Ningbo, Zhejiang 315712
P.R. China

Manufacturer : Ginlong Technologies Co., Ltd.

Address : No.188 Jinkai Road, Binhai Industrial Park, Xiangshan Ningbo, Zhejiang 315712
P.R. China

EUT : Grid-connected PV Inverter

Model Name : S6-EH3P30K03-LV-YD-H-US, S6-EH3P30K03-NV-YD-H-US,
S6-EH3P40K04-NV-YD-H-US, S6-EH3P50K04-NV-YD-H-US,
S6-EH3P60K04-NV-YD-H-US

Trademark : N/A


Measurement Procedure Used:


APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2 , Subpart J FCC 47 CFR Part 15, Subpart C	PASS

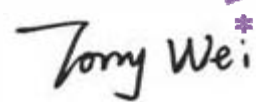
The above equipment was tested by EMTEK (NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : March 10, 2025 to April 07, 2025

Prepared by : 
Victor Chen /Engineer

Reviewer : 
June Gao /Supervisor

Approve & Authorized Signer : 
Tony wei/Manager

Modified History

Version	Report No.	Revision Date	Summary
/	ENB2409290129W00101R	/	Original report



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product	Grid-connected PV Inverter
Model Number	S6-EH3P30K03-LV-YD-H-US, S6-EH3P30K03-NV-YD-H-US, S6-EH3P40K04-NV-YD-H-US, S6-EH3P50K04-NV-YD-H-US, S6-EH3P60K04-NV-YD-H-US. Note: The hardware is the same, and software is used to control different output power. We chose S6-EH3P60K04-NV-YD-H-US for RF test.
Sample Number	ENB2409290129W001-1-1
Device Type	Bluetooth V5.0
Data Rate :	1 Mbps for GFSK modulation 2 Mbps for pi/4-DQPSK modulation
Modulation:	GFSK, pi/4-DQPSK
Operating Frequency Range:	2402-2480 MHz
Number of Channels:	40 Channels
Transmit Power Max:	6.51 dBm
Antenna Type:	Onboard ceramic antenna
Antenna Gain:	5.52 dBi
Power supply	Input: 150-850 V Output: 208 V/220 V/240 V/480 V, 60000 W
Temperature Range:	-25°C~+60°C
Date of Received:	September 29, 2024

Note: for more details, please refer to the User's manual of the EUT.

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	DTS (6dB) Bandwidth	PASS	
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	
15.247(e)	Maximum Power Spectral Density Level	PASS	
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS	
15.247(d) 15.209	Unwanted Emission Into Restricted Frequency Bands (conducted)	PASS	
15.247(d) 15.209	Radiated Spurious Emission	PASS	
15.207	Conducted Emission Test	PASS	
15.247(b)	Antenna Application	PASS	
	NOTE1: N/A (Not Applicable) NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.		

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AWE8-S6EH3P-H filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

Equ.No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-002	EMI Test Receiver	R & S	ESCI	101107	July 02, 2024	1 Year
ENE-003	L.I.S.N	R & S	ENV216	101193	July 02, 2024	1 Year
ENE-150	Conduction Test Room 2#	SKET	6.5*5*4m	/	Mar 05, 2025	3 Year

4.2.2 Radiated Emission Test Equipment

Equ.No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-185	EMI Test Receiver	R&S	ESR7	102480	Mar 05, 2025	1 Year
ENE-190	Antenna Multiple	Schwarzbeck	VULB 9163	01499	Mar 05, 2025	1 Year
ENE-195	Pre-Amplifier	JS Denki	PA09K03-40	JSPA21019	Mar 05, 2025	1 Year
ENE-204	Low Frequency Notch Filter RF Switching	JS Denki	JSDSW-F	JSDSW2211D 02	Mar 05, 2025	1 Year
ENE-251	6dB Attenuator	Mini-Circuits	UNAT-6+	11542	July 02, 2024	1 Year
ENE-171	EXA Signal Analyzer	KEYSIGHT	N9010B	MY60242467	Oct. 28, 2024	1 Year
ENE-191	Horn Antenna	Schwarzbeck	BBHA 9120 D	02588	Mar 09, 2025	1 Year
ENE-198	Pre-Amplifier	JS Denki	PA0118-50	JSPA21022	Mar 05, 2025	1 Year
ENE-206	High Frequency Notch FilterRf Switching	JS Denki	JSDSW-F	202083582	Mar 05, 2025	1 Year
ENE-144	3-Meter Anechoic Chamber 2#	SKET	9*6*6m	/	Mar 05, 2025	3 Year

4.2.3 Radio Frequency Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-256	EXA Signal Analyzer	Keysight	N9010B	MY62060219	July 02, 2024	1 Year
ENE-172	RF Control Unit	Tonscend	JS0806-2(V.6E)	21L8060521	March 03, 2025	1 Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (Bluetooth V5.0 DTS :1 Mbps; 2 Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for Bluetooth V5.0 DTS:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440
1	2404	20	2442	37	2476
2	2406	21	2444	38	2478
...	39	2480

Note: $f_c = 2402\text{MHz} + k \times 2\text{MHz}$ $k=1$ to 39

Test Frequency and channel for Bluetooth V5.0 DTS:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	39	2480

4.4 TEST SOFTWARE

Item	Software
Radiated Emission:	JSDEMC-EMI (V 3.9)
Conducted Emission:	JSDEMC-EMI (V 3.8)

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 32.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Designation by FCC

Designation Number: CN1354

Test Firm Registration Number: 427606

Accredited by A2LA

The Certificate Number is 4321.03.

The certificate is valid until May 31, 2025

Designation by Industry Canada

The Conformity Assessment Body Identifier is CN0114

Name of Firm

: EMTEK (NINGBO) CO., LTD.

Site Location

: No. 8, Building 8, Lane 216, Qingyi Road, High-Tech Zone, Ningbo, Zhejiang, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$ MHz
Uncertainty for Output power test	± 0.83 dB
Conducted Emissions Test	± 2.0 dB
Radiated Emission Test	± 2.0 dB
Occupied Bandwidth Test	± 1.0 dB
Power density test	± 1.85 dB
All emission, radiated	± 3 dB
Antenna Port Emission	± 3 dB
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

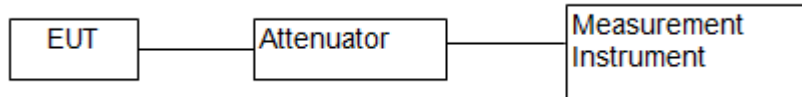
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth V5.0 DTS component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

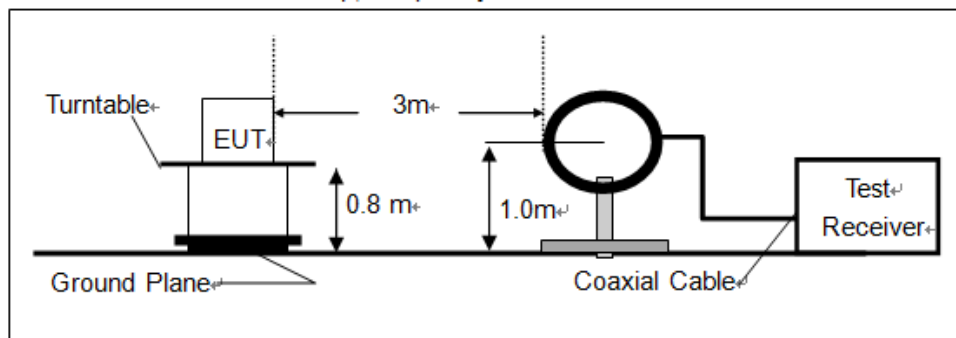
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

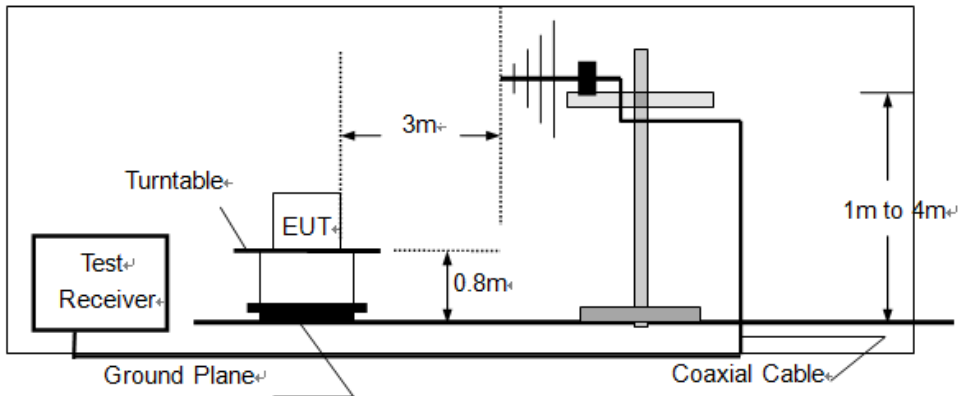
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

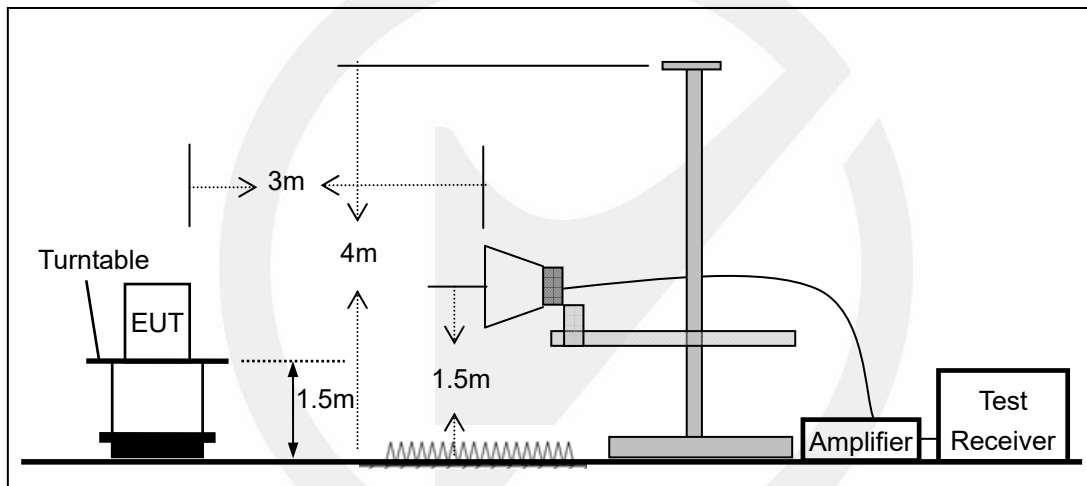
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

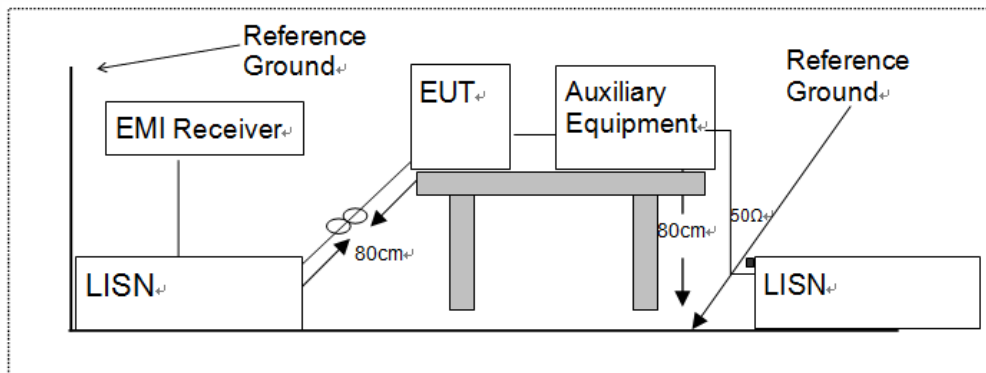


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

7.5 SUPPORT EQUIPMENT		EUT	
EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/
Auxiliary Cable List and Details		AC Power	
Cable Description		Shielded/Unshielded	With / Without Ferrite
/	/	/	/
Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 DTS 6DB BANDWIDTH

8.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.4 Test Procedure

The EUT was operating in Bluetooth V5.0 DTS mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) = 300 kHz.

Set Span = 2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

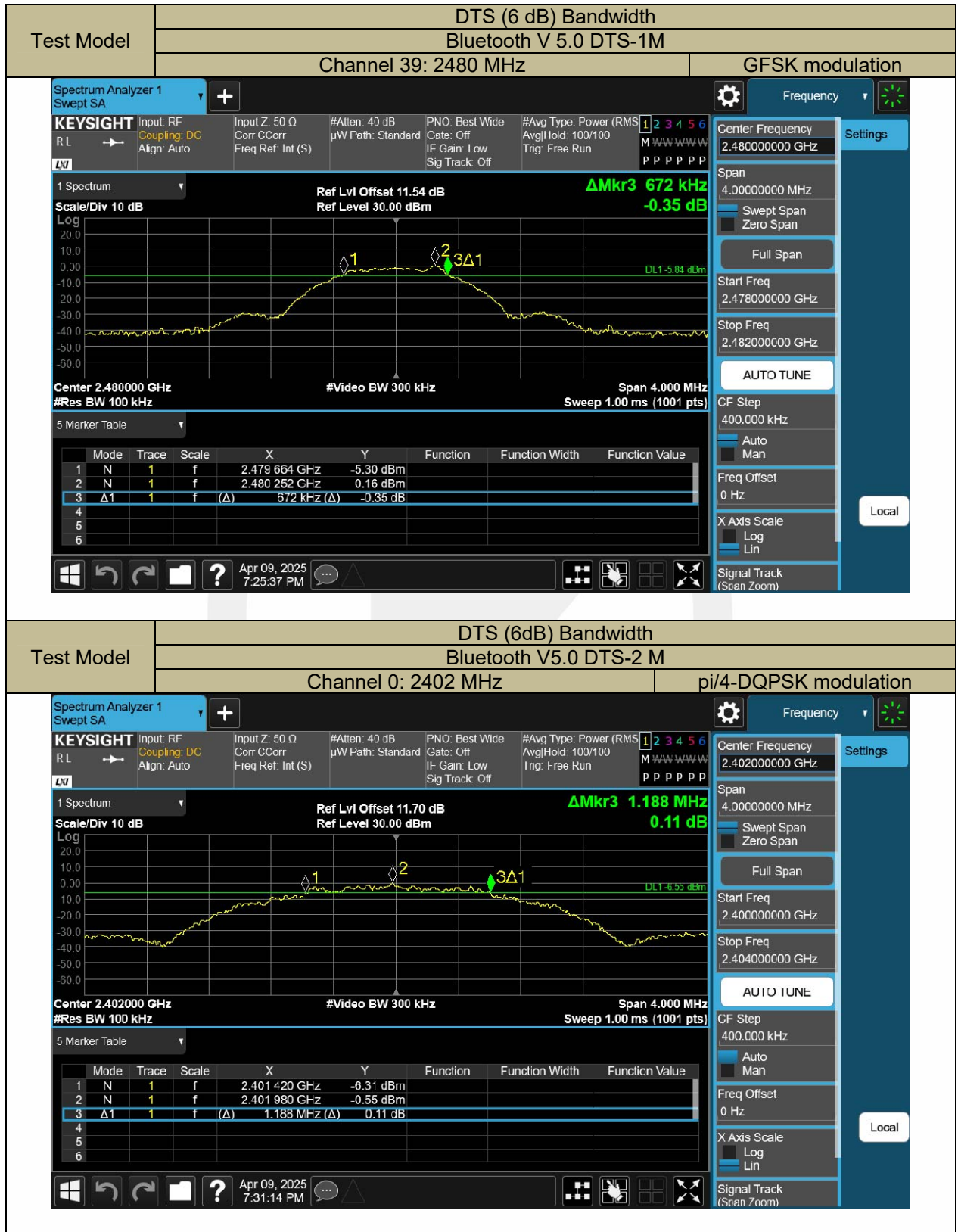
Measure and record the results in the test report.

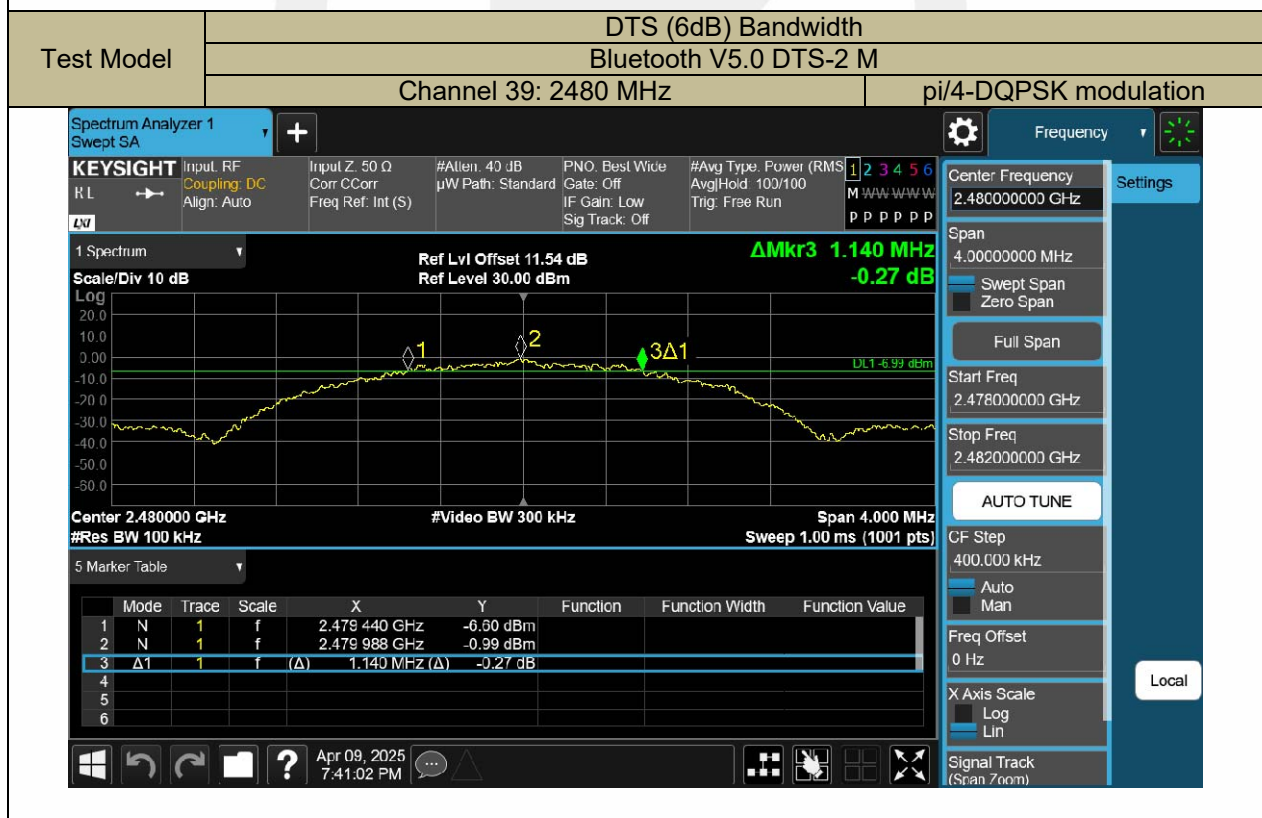
Test Results

Temperature:	25 ° C
Relative Humidity:	41 %
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Bandwidth (kHz)	Limit (kHz)	Verdict
BLE 1M	0	2402	688	>500	PASS
	19	2440	704	>500	PASS
	39	2480	672	>500	PASS
BLE 2M	0	2402	1188	>500	PASS
	19	2440	1224	>500	PASS
	39	2480	1140	>500	PASS







8.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30 dBm).

8.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.2.4 Test Procedure

■ According to FCC Part 15.247(b)(3)

As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. For smart system, Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Set the RBW \geq DTS bandwidth (about 1 MHz).

Set VBW $= 3 \times$ RBW (about 3 MHz)

Set the span $\geq 3 \times$ RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

■ According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Results

Temperature:	25 ° C
Relative Humidity:	41 %
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
BLE 2M	0	2402	6.51	30	PASS
	19	2440	6.34	30	PASS
	39	2480	6.11	30	PASS
BLE 2M	0	2402	6.50	30	PASS
	19	2440	6.34	30	PASS
	39	2480	6.09	30	PASS

8.3 MAXIMUM POWER SPECTRAL DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

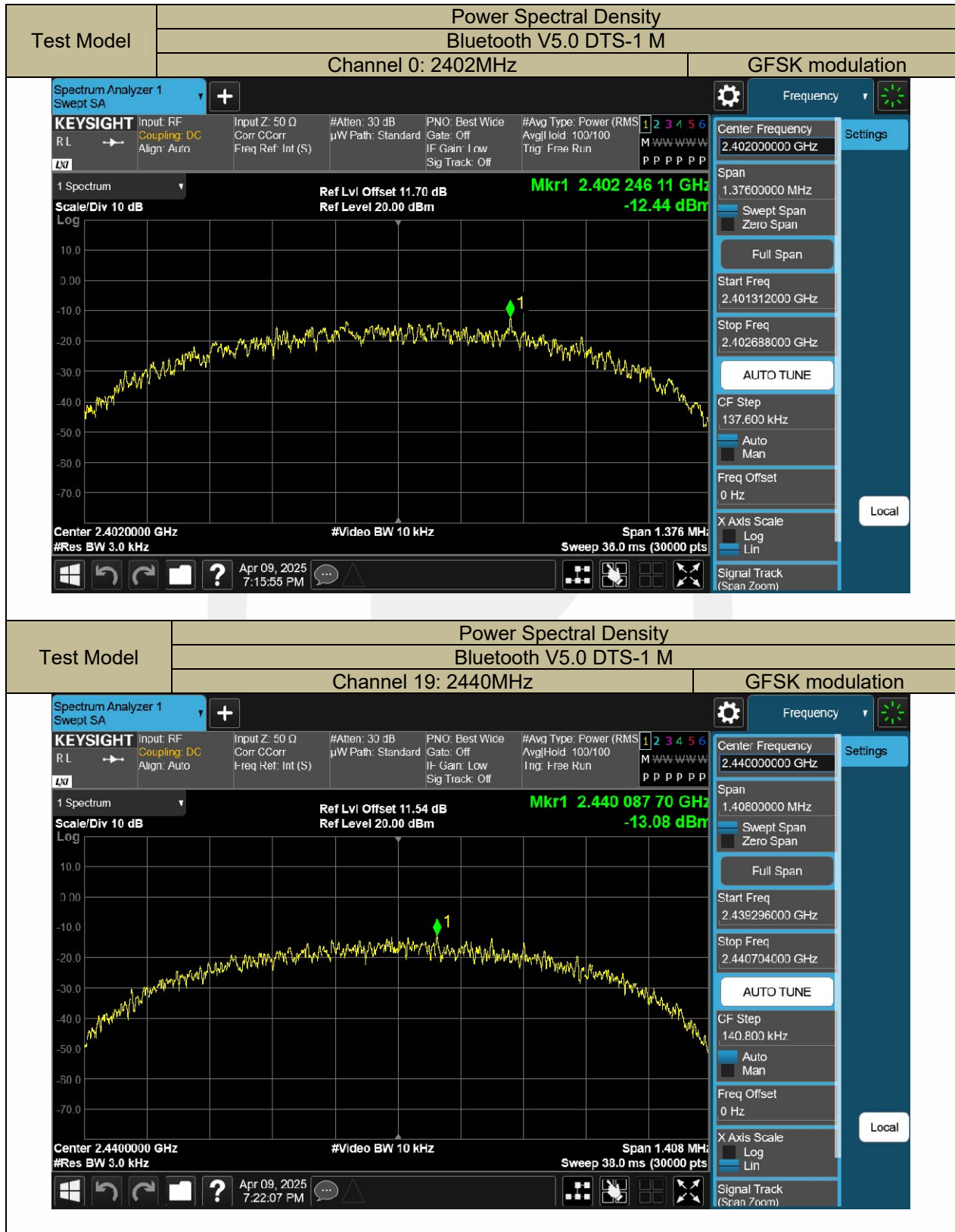
Allow trace to fully stabilize.

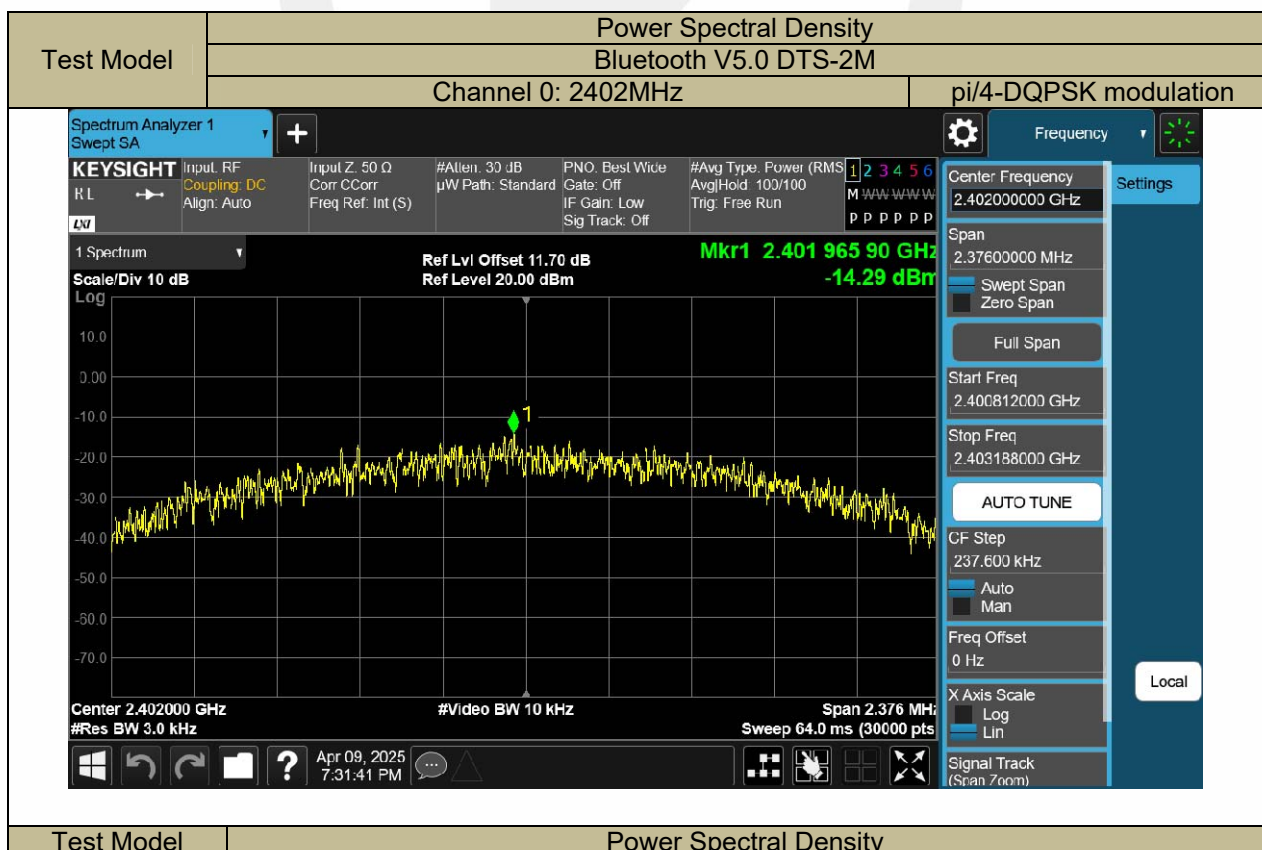
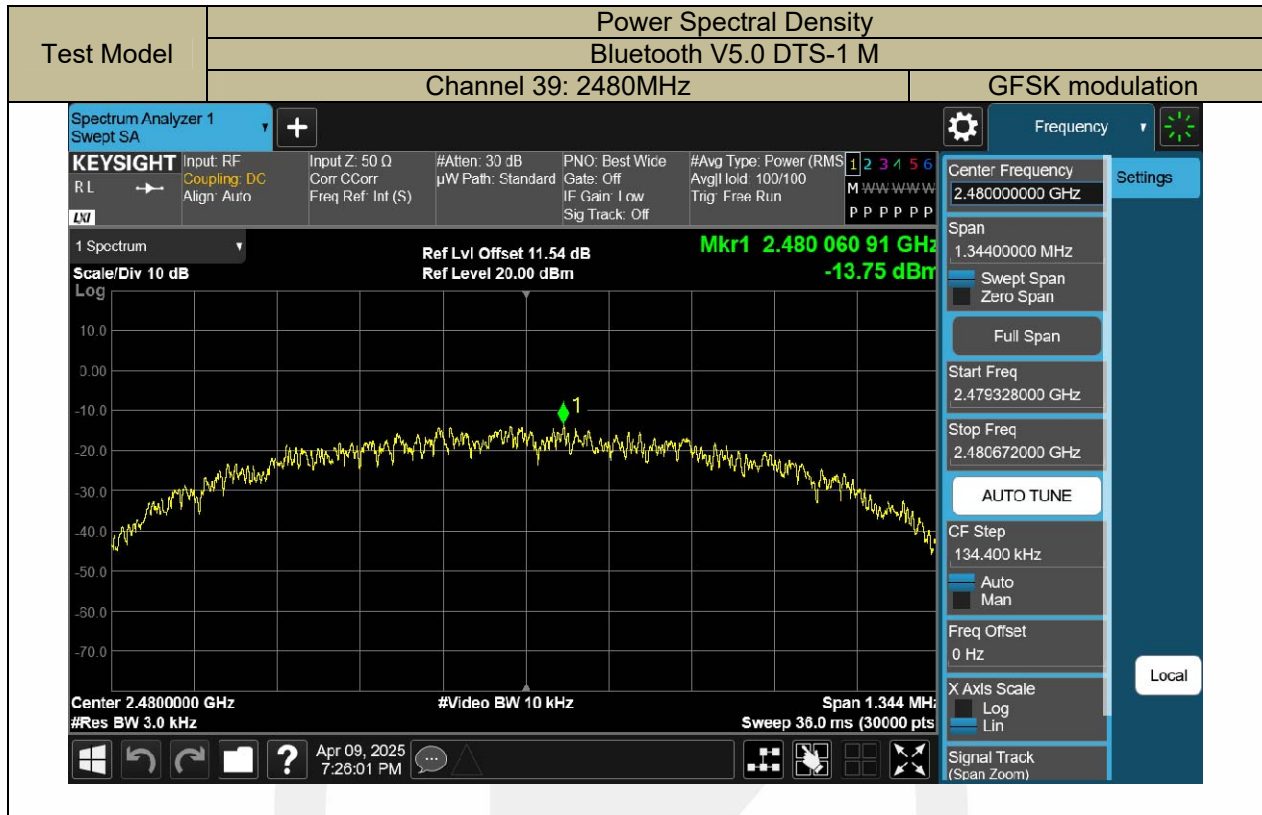
Use the peak marker function to determine the maximum amplitude level within the RBW.

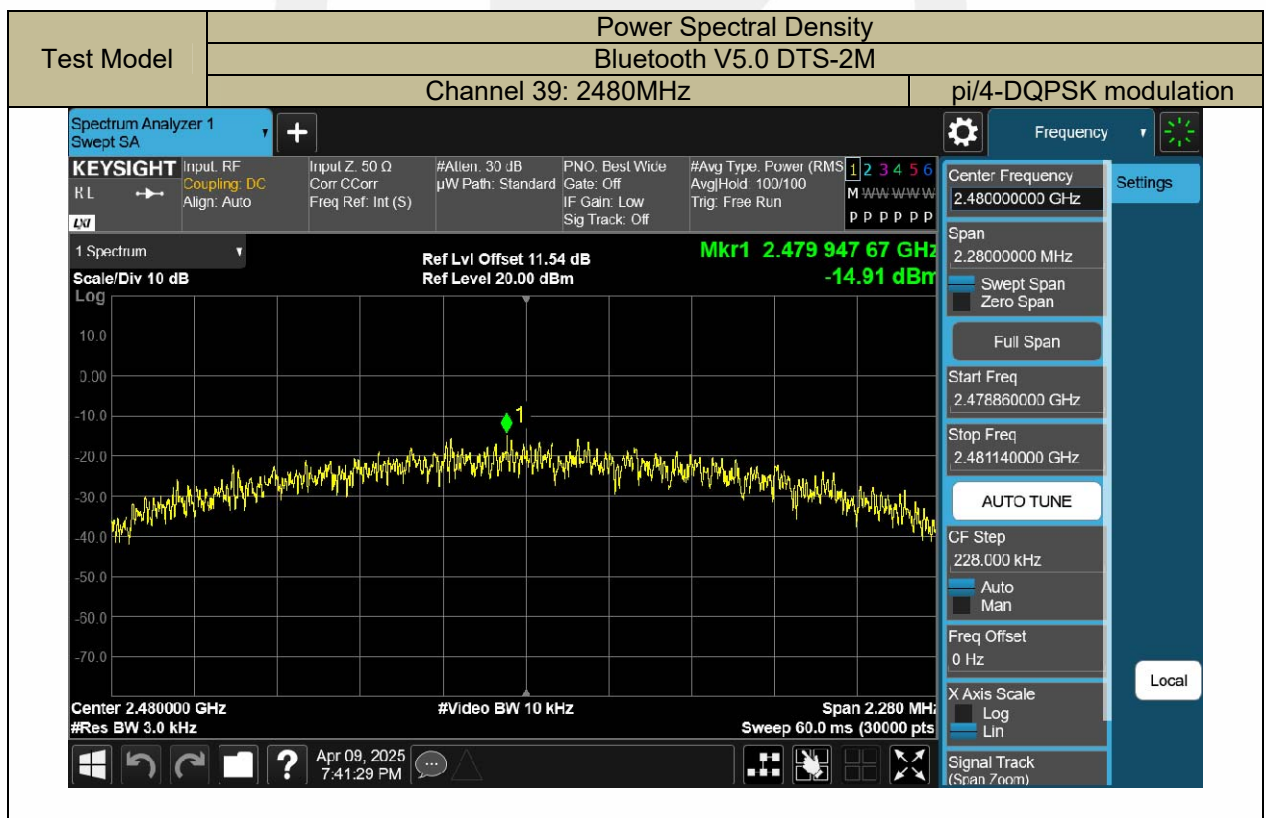
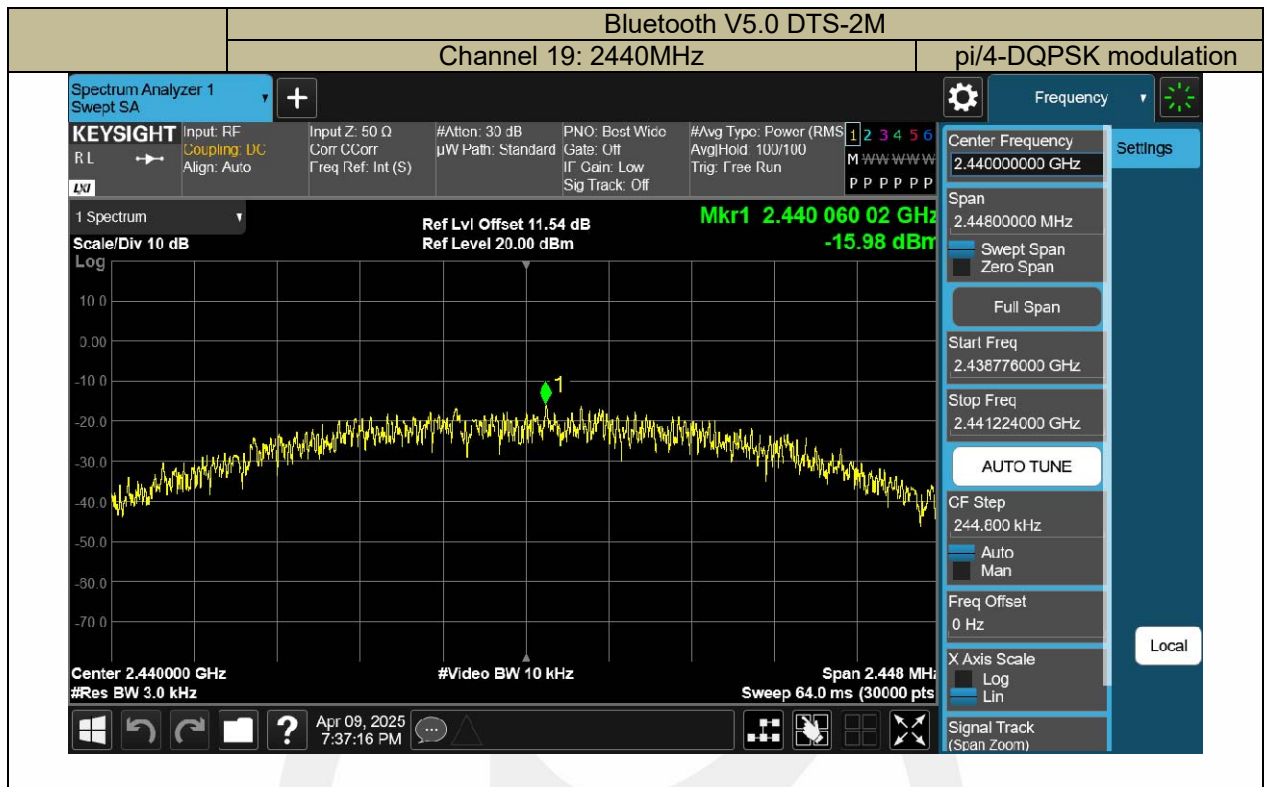
8.3.5 Test Results

Temperature:	25 °C
Relative Humidity:	41 %
ATM Pressure:	1011 mbar

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1 M	0	2402	-12.44	<8	PASS
	19	2440	-13.08	<8	PASS
	39	2480	-13.75	<8	PASS
BLE 2 M	0	2402	-14.29	<8	PASS
	19	2440	-15.98	<8	PASS
	39	2480	-14.91	<8	PASS
Note: N/A					







8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

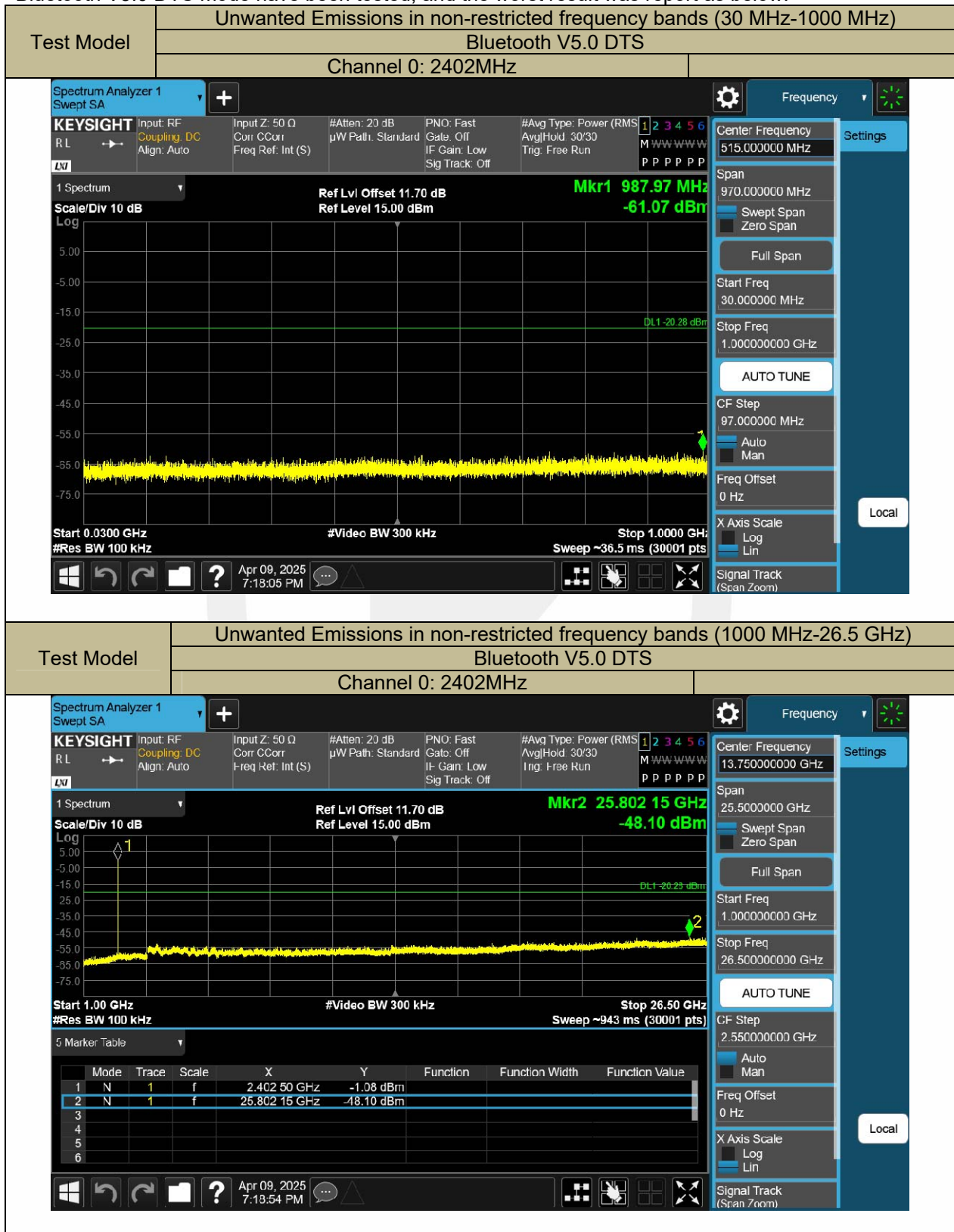
Use the peak marker function to determine the maximum amplitude level.

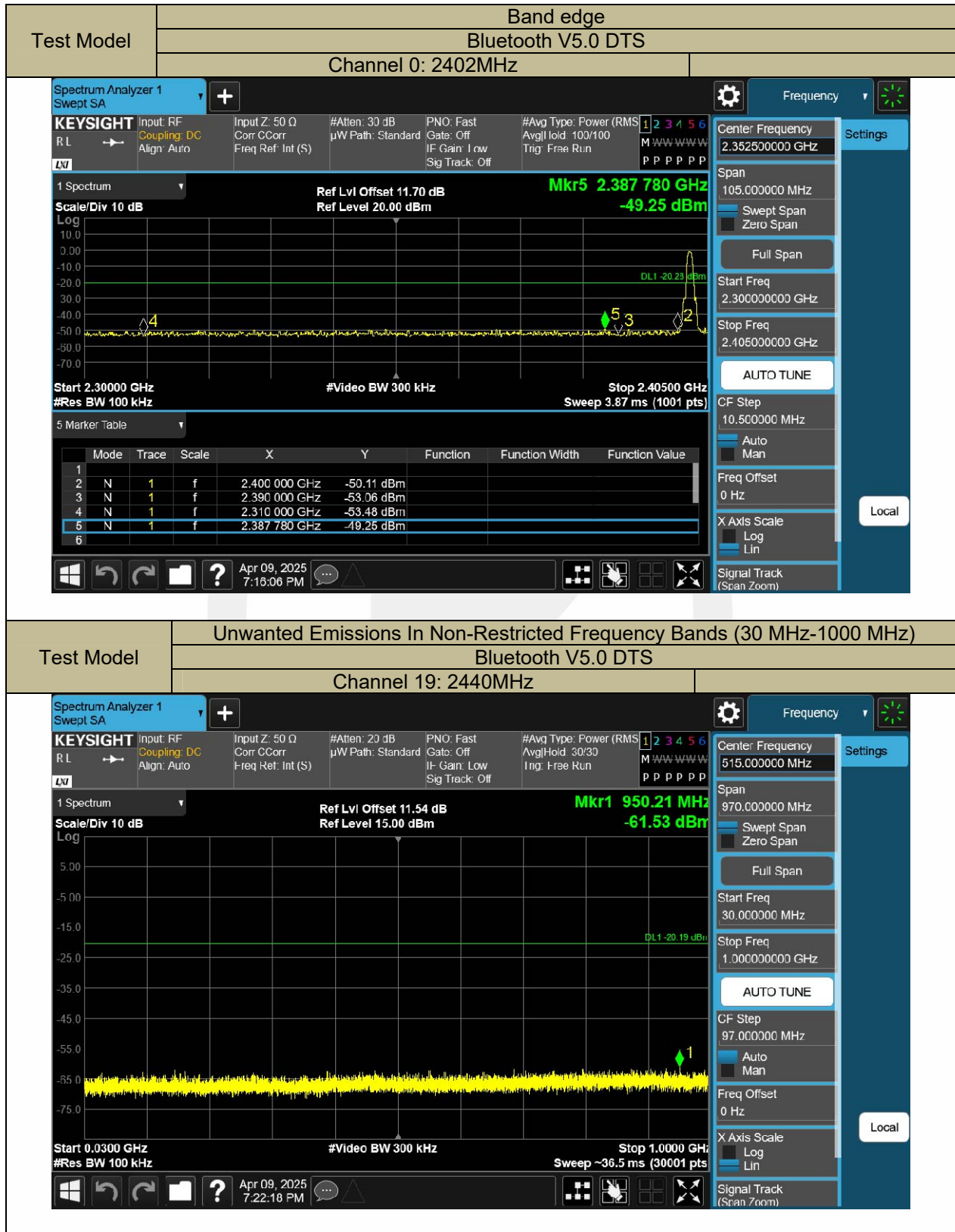
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

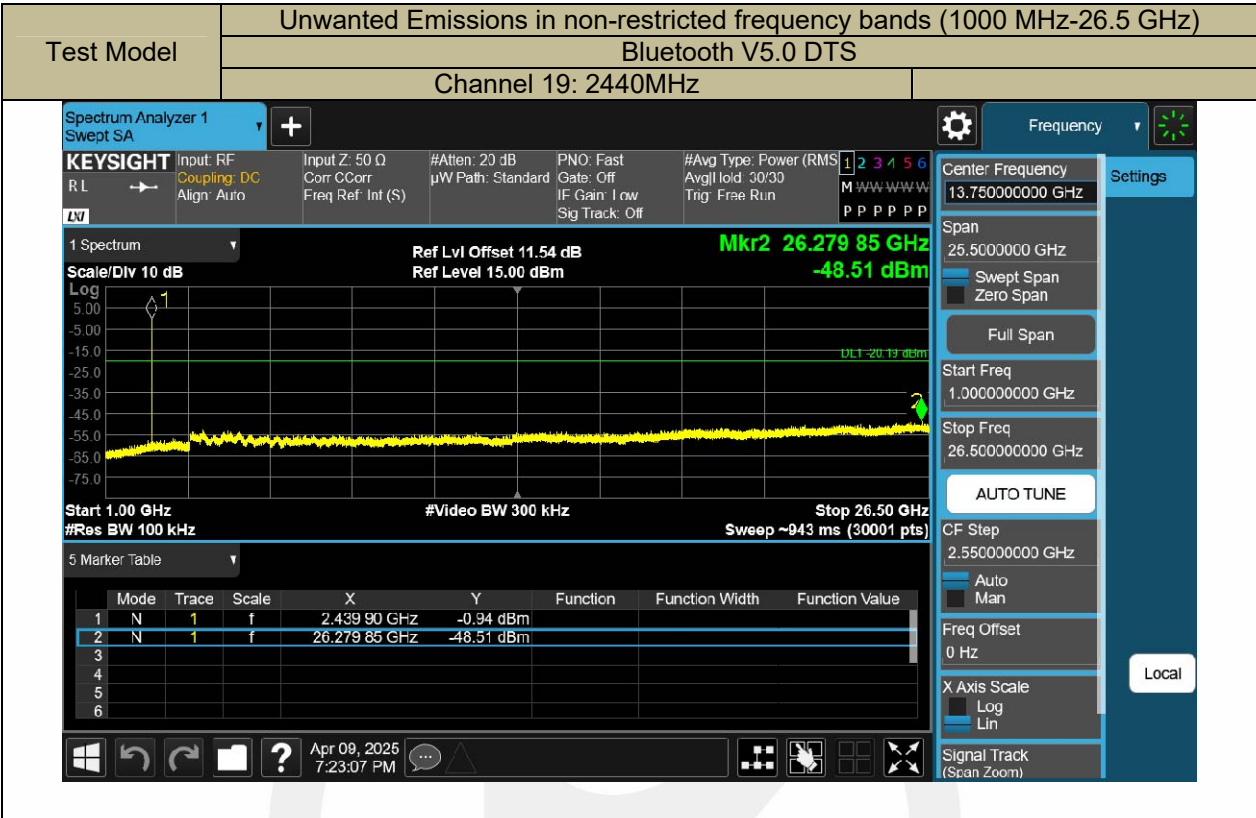
8.4.5 Test Results

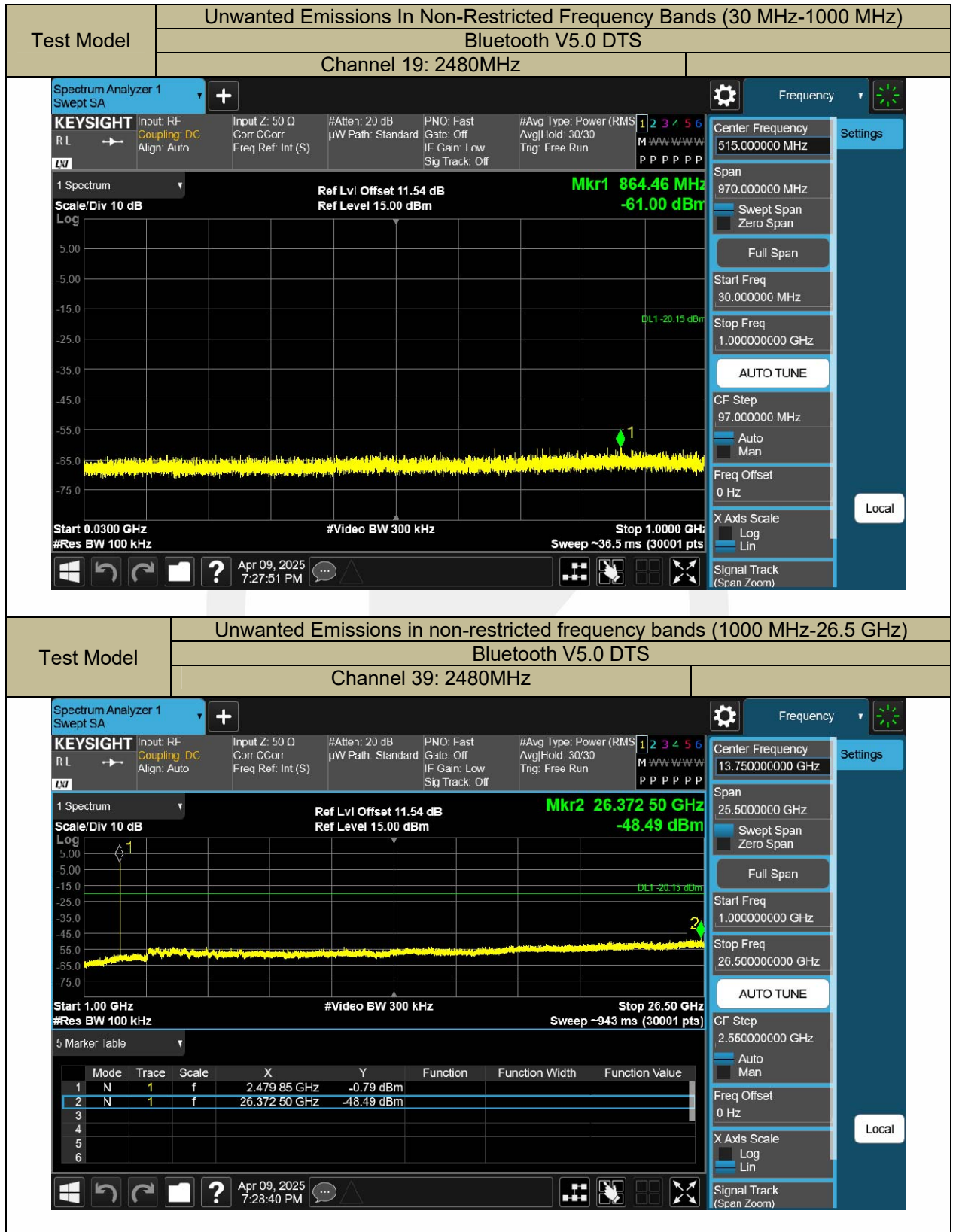
Temperature:	25 ° C
Relative Humidity:	41 %
ATM Pressure:	1011 mbar

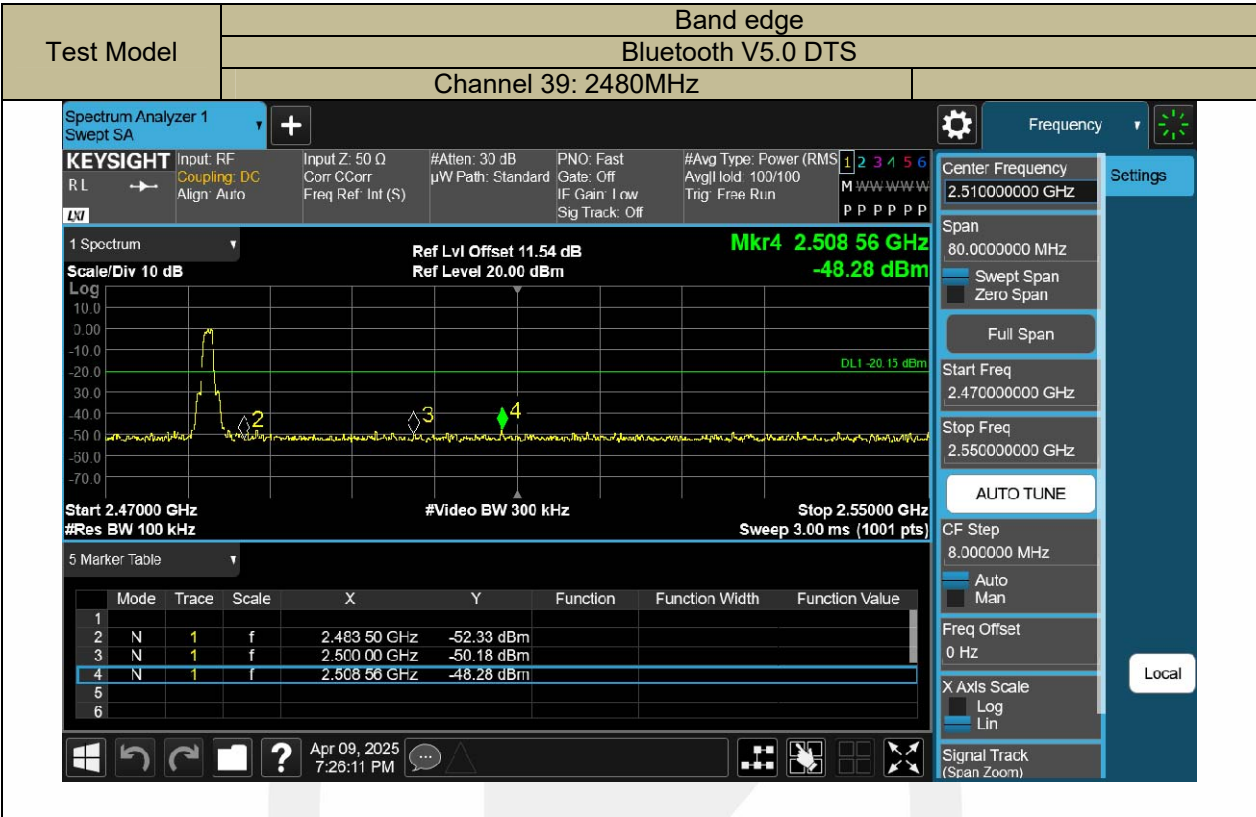
Bluetooth V5.0 DTS mode have been tested, and the worst result was report as below:











8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02

8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	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	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
8.41425-8.41475	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	(2)
13.36-13.41			

According to FCC Part 15.209, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz (1GHz to 25GHz), 100 kHz for $f < 1$ GHz (30MHz to 1GHz)

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Temperature:	18 ° C
Relative Humidity:	43 %
ATM Pressure:	1011 mbar

■ Spurious Emission below 30MHz (9KHz to 30MHz)

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/ \text{test distance})$ (dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Bluetooth V5.0 DTS mode have been tested, and the worst result was report as below:

Test mode: BLE Frequency: Channel 0: 2402MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4804.00	V	40.81	27.41	74.00	54.00	-33.19	-26.59
10345.00	V	49.59	36.48	74.00	54.00	-24.41	-17.52
13861.50	V	52.20	37.94	74.00	54.00	-21.8	-16.06
4804.00	H	37.58	23.68	74.00	54.00	-36.42	-30.32
13944.50	H	52.44	38.82	74.00	54.00	-21.56	-15.18
17472.50	H	52.98	39.79	74.00	54.00	-21.02	-14.21

Test mode: BLE Frequency: Channel 19: 2440MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4880.00	V	39.97	25.13	74.00	54.00	-34.03	-28.87
10850.00	V	50.51	37.87	74.00	54.00	-23.49	-16.13
13935.50	V	52.19	36.94	74.00	54.00	-21.81	-17.06
4880.00	H	39.60	26.96	74.00	54.00	-34.40	-27.04
13819.50	H	51.84	36.23	74.00	54.00	-22.16	-17.77
17983.00	H	55.23	41.05	74.00	54.00	-18.77	-12.95

Test mode: BLE Frequency: Channel 39: 2480MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4960.500	V	42.13	29.68	74.00	54.00	-31.87	-24.32
4772.500	V	43.21	31.35	74.00	54.00	-30.79	-22.65
14210.00	V	52.21	39.97	74.00	54.00	-21.79	-14.03
4960.00	H	44.54	30.22	74.00	54.00	-29.46	-23.78
11050.00	H	49.93	36.47	74.00	54.00	-24.07	-17.53
13904.50	H	52.47	38.09	74.00	54.00	-21.53	-15.91

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

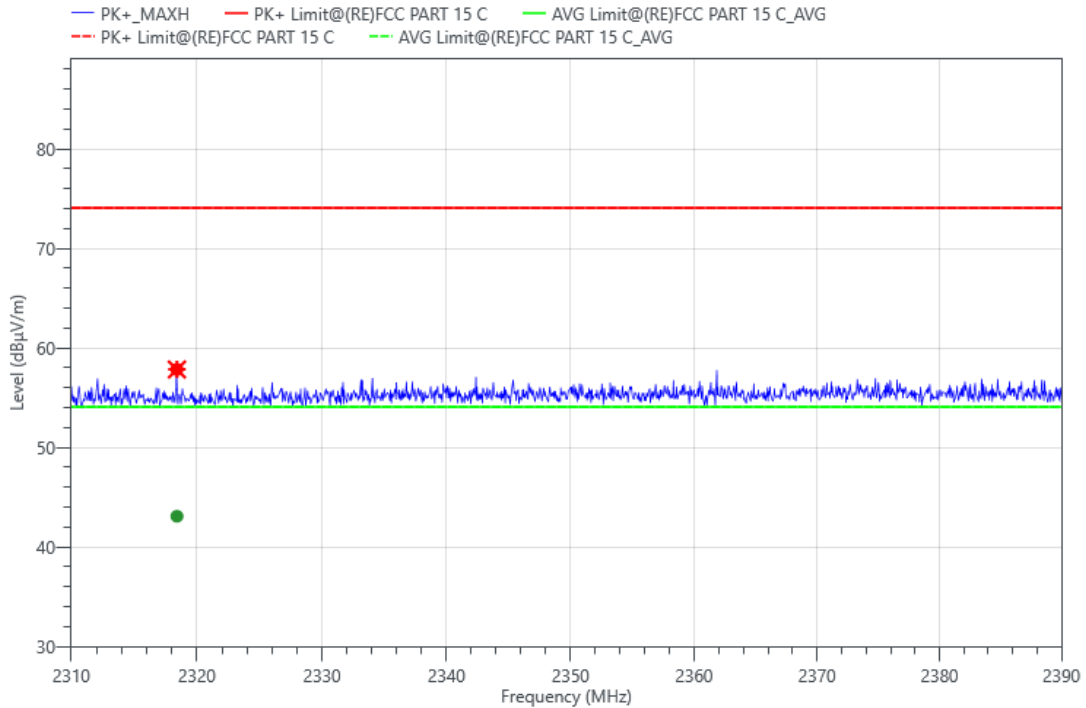
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2318.400	H	57.83	74.00	43.08	54.00
2352.640	V	57.31	74.00	44.20	54.00

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.913	H	60.64	74.00	46.03	54.00
2494.464	V	57.89	74.00	42.64	54.00

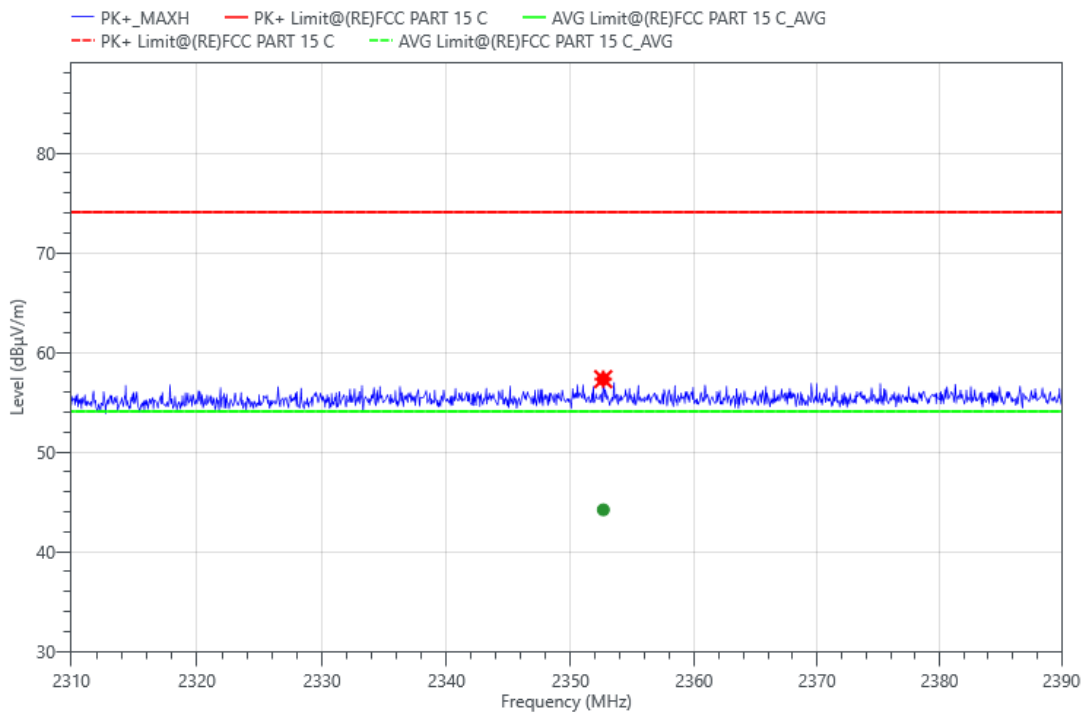
- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

All the modulation modes were tested, the data of the worst mode are described in the following table

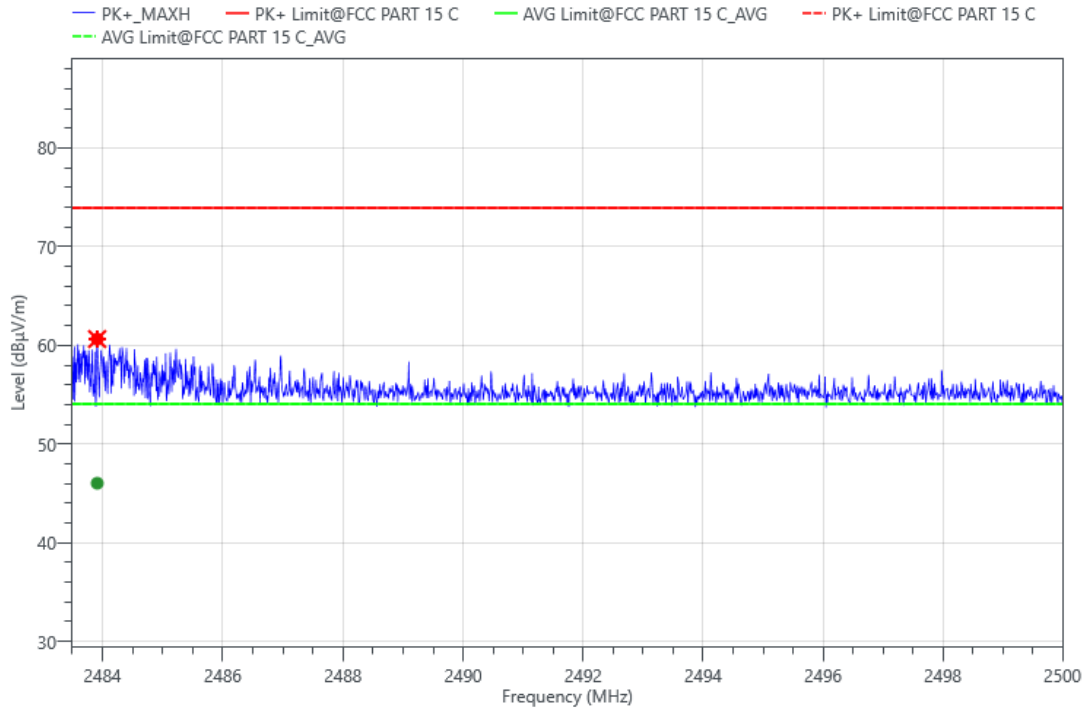
Test Model	Spurious Emission in Restricted Band 2310-2390MHz	
	Bluetooth V5.0 DTS	
	Channel 0: 2402MHz	H



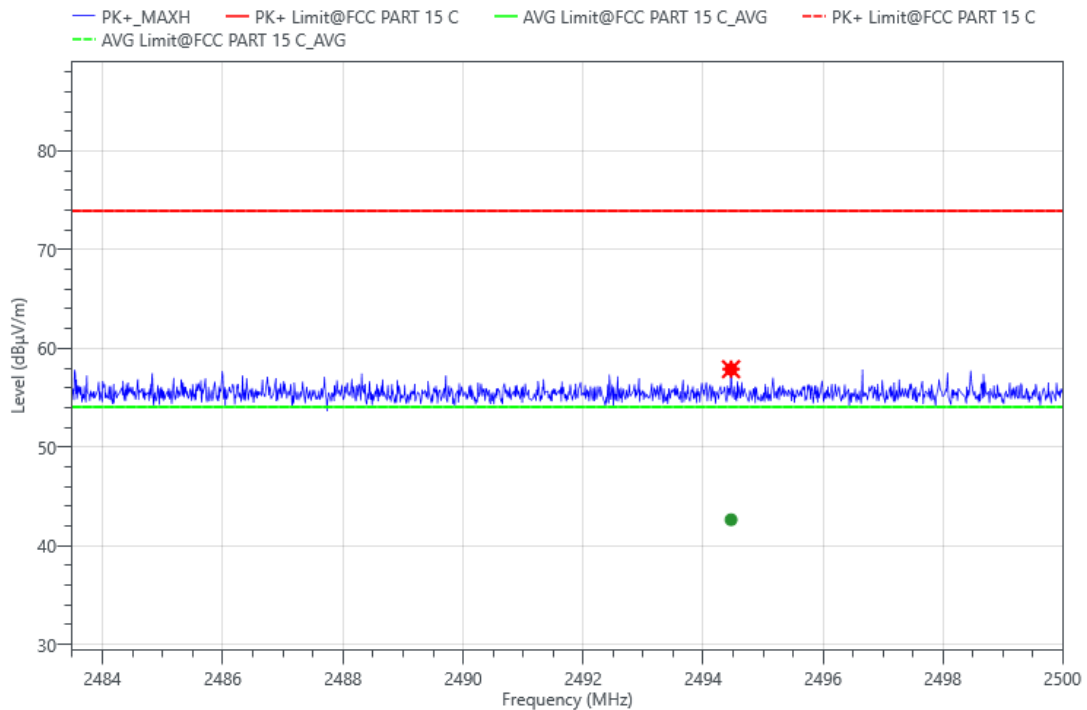
Test Model	Spurious Emission in Restricted Band 2310-2390MHz	
	Bluetooth V5.0 DTS	
	Channel 0: 2402MHz	V



Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Bluetooth V5.0 DTS		
	Channel 39: 2480MHz		H



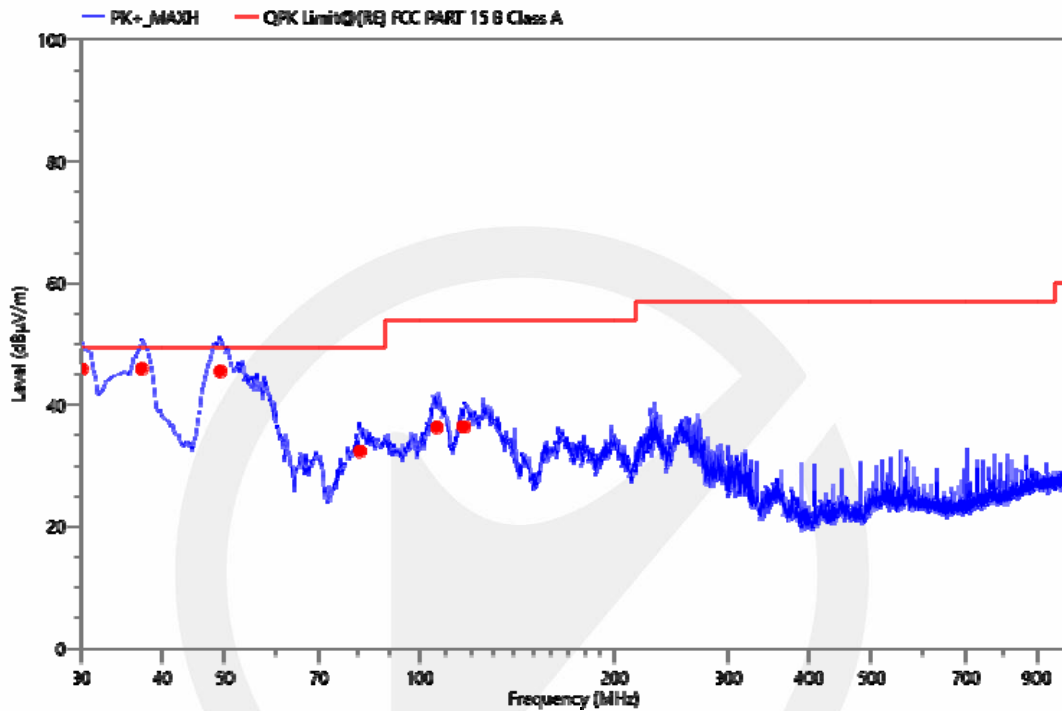
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Bluetooth V5.0 DTS		
	Channel 39: 2480MHz		V



■ Spurious Emission below 1 GHz (30 MHz to 1 GHz)

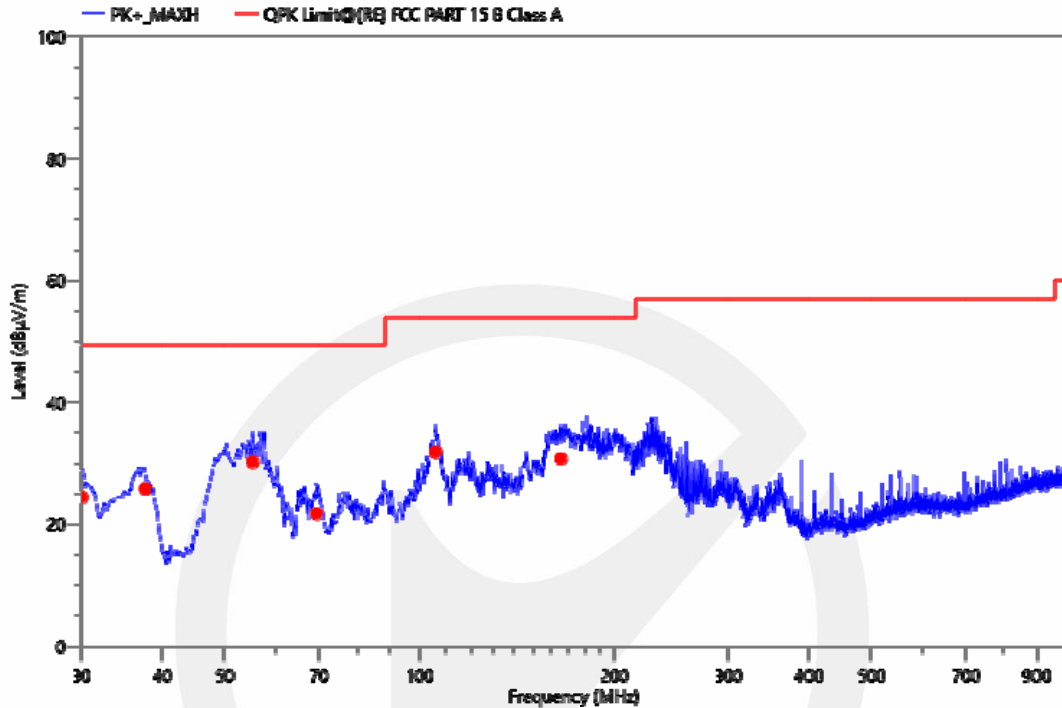
All modes have been tested, and the worst result recorded was report as below:

Project Information			
Mode:	TX 2402 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 18°C; Humi:67%	Engineer:	Andy



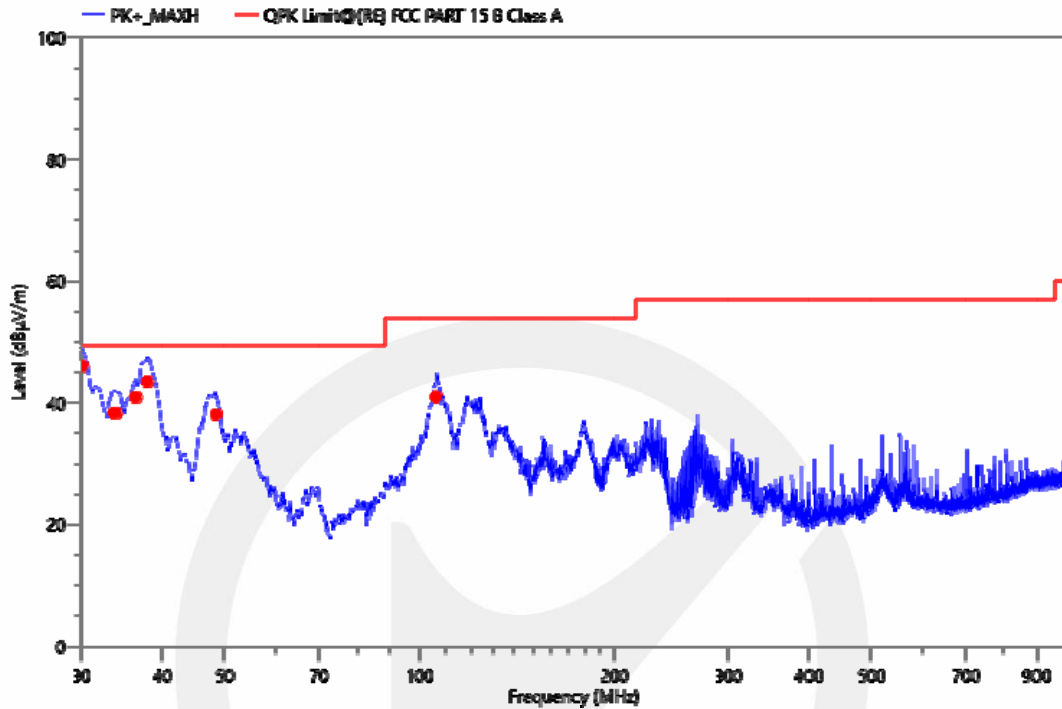
Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
30.000	70.89	-24.98	45.91	49.50	3.59	QPK	100	V	137.7	PASS
37.081	70.43	-24.48	45.95	49.50	3.55	QPK	100	V	179.4	PASS
49.206	69.28	-23.75	45.53	49.50	3.97	QPK	100	V	166.9	PASS
80.634	58.95	-26.57	32.38	49.50	17.12	QPK	100	V	346.6	PASS
106.339	61.28	-24.94	36.34	54.00	17.66	QPK	100	V	209.7	PASS
116.815	62.69	-26.26	36.43	54.00	17.57	QPK	100	V	338.3	PASS

Project Information			
Mode:	TX 2402 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 18°C; Humi:67%	Engineer:	Andy



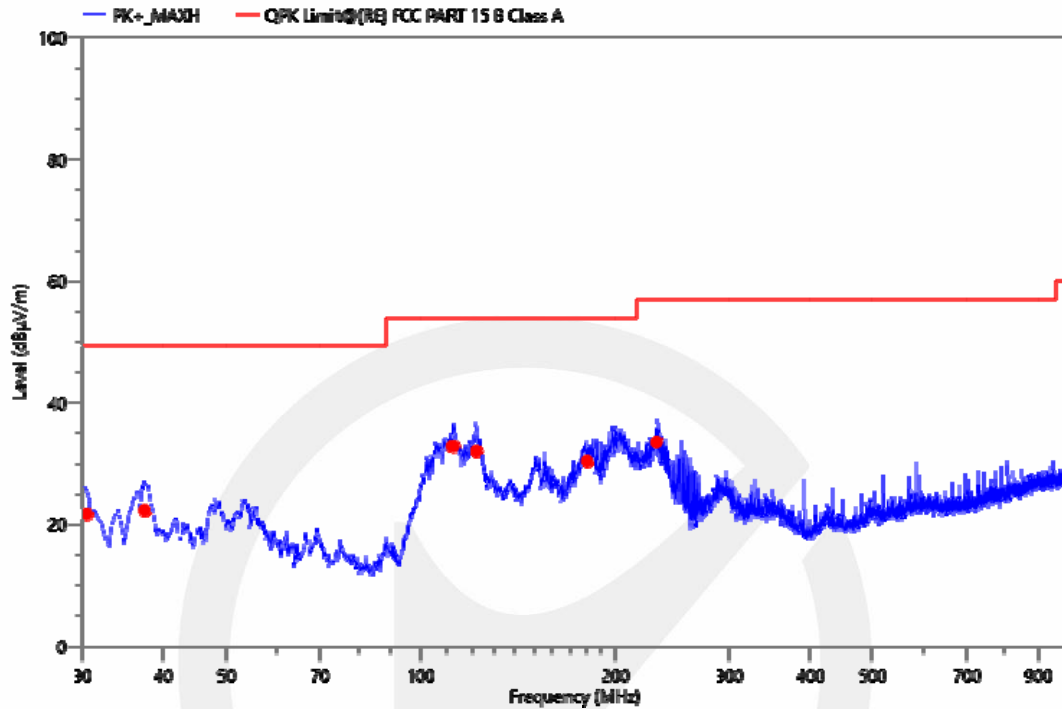
Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
30.000	49.44	-24.98	24.46	49.50	25.04	QPK	100	H	216.3	PASS
37.566	50.34	-24.52	25.82	49.50	23.68	QPK	100	H	247.3	PASS
55.026	54.94	-24.72	30.22	49.50	19.28	QPK	100	H	106.2	PASS
69.382	48.02	-26.29	21.73	49.50	27.77	QPK	100	H	114.5	PASS
105.951	56.75	-24.9	31.85	54.00	22.15	QPK	100	H	95.5	PASS
165.509	57.07	-26.3	30.77	54.00	23.23	QPK	100	H	115.1	PASS

Project Information			
Mode:	TX 2440 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 18°C; Humi:67%	Engineer:	Andy



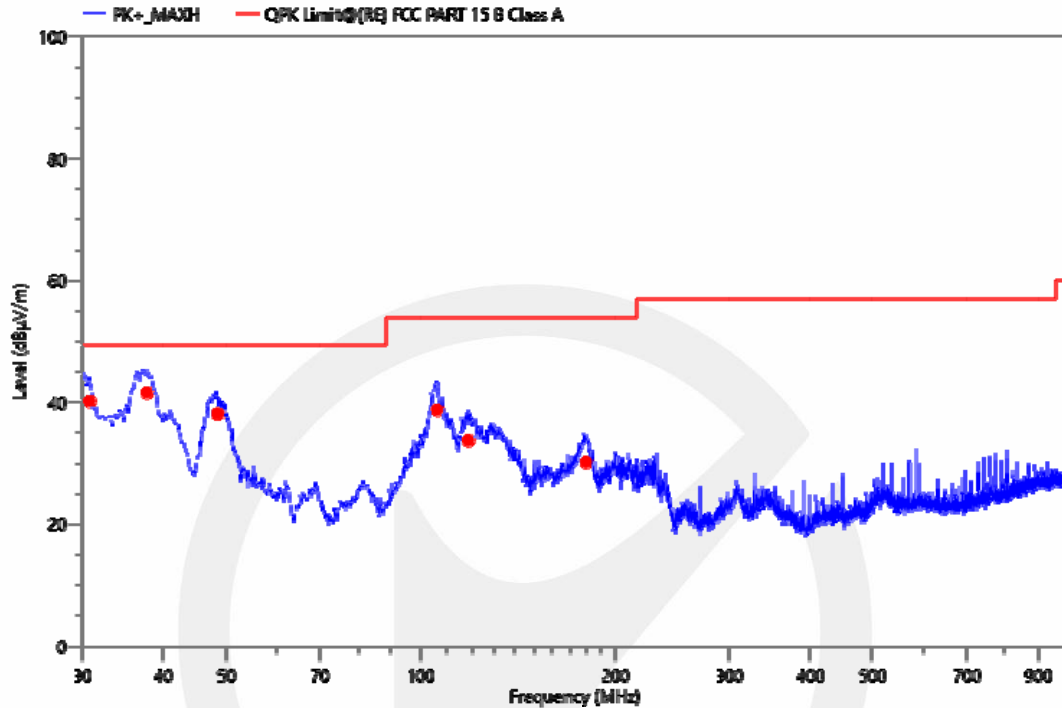
Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
30.097	70.97	-24.97	46.00	49.50	3.50	QPK	100	V	122.3	PASS
33.783	62.80	-24.47	38.33	49.50	11.17	QPK	100	V	174.0	PASS
36.305	65.35	-24.42	40.93	49.50	8.57	QPK	100	V	163.9	PASS
37.857	68.06	-24.55	43.51	49.50	5.99	QPK	100	V	194.3	PASS
48.527	61.82	-23.74	38.08	49.50	11.42	QPK	100	V	183.0	PASS
106.145	65.89	-24.92	40.97	54.00	13.03	QPK	100	V	194.9	PASS

Project Information			
Mode:	TX 2440 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 18°C; Humi:67%	Engineer:	Andy



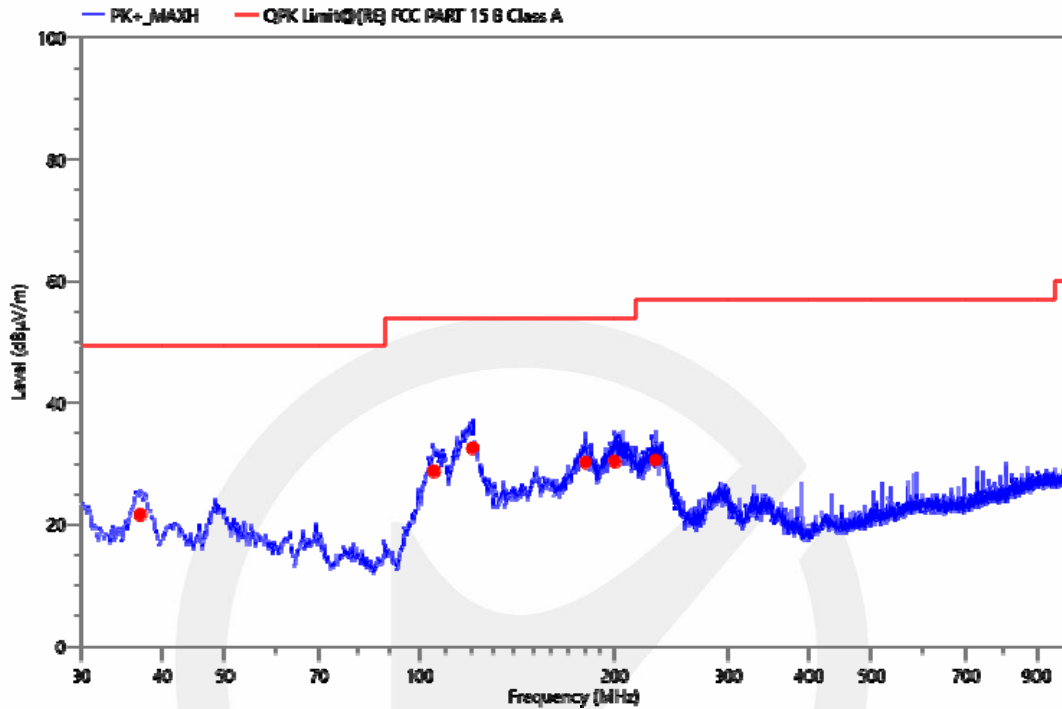
Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
30.485	46.60	-24.91	21.69	49.50	27.81	QPK	100	H	254.5	PASS
37.372	46.82	-24.51	22.31	49.50	27.19	QPK	100	H	268.2	PASS
112.159	58.44	-25.62	32.82	54.00	21.18	QPK	100	H	223.5	PASS
121.762	58.82	-26.79	32.03	54.00	21.97	QPK	100	H	117.0	PASS
180.641	56.21	-25.82	30.39	54.00	23.61	QPK	100	H	231.8	PASS
232.051	56.69	-23.2	33.49	56.90	23.41	QPK	100	H	224.7	PASS

Project Information			
Mode:	TX 2480 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 18°C; Humi:67%	Engineer:	Andy



Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
30.776	65.07	-24.88	40.19	49.50	9.31	QPK	100	V	135.9	PASS
37.663	66.13	-24.53	41.60	49.50	7.90	QPK	100	V	211.5	PASS
48.527	61.86	-23.74	38.12	49.50	11.38	QPK	100	V	179.9	PASS
106.242	63.67	-24.93	38.74	54.00	15.26	QPK	100	V	160.9	PASS
118.173	60.19	-26.44	33.75	54.00	20.25	QPK	100	V	254.3	PASS
179.768	56.05	-25.86	30.19	54.00	23.81	QPK	100	V	210.3	PASS

Project Information			
Mode:	TX 2480 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 18°C; Humi:67%	Engineer:	Andy



Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Height (cm)	Pol.	Azimuth (deg)	Verdict
36.887	46.11	-24.47	21.64	49.50	27.86	QPK	100	H	252.2	PASS
105.272	53.59	-24.82	28.77	54.00	25.23	QPK	100	H	102.2	PASS
120.404	59.29	-26.71	32.58	54.00	21.42	QPK	100	H	233.8	PASS
180.350	56.05	-25.84	30.21	54.00	23.79	QPK	100	H	130.8	PASS
200.041	54.58	-24.19	30.39	54.00	23.61	QPK	100	H	239.1	PASS
232.051	53.75	-23.2	30.55	56.90	26.35	QPK	100	H	137.3	PASS

8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

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

8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

8.6.4 Test Procedure

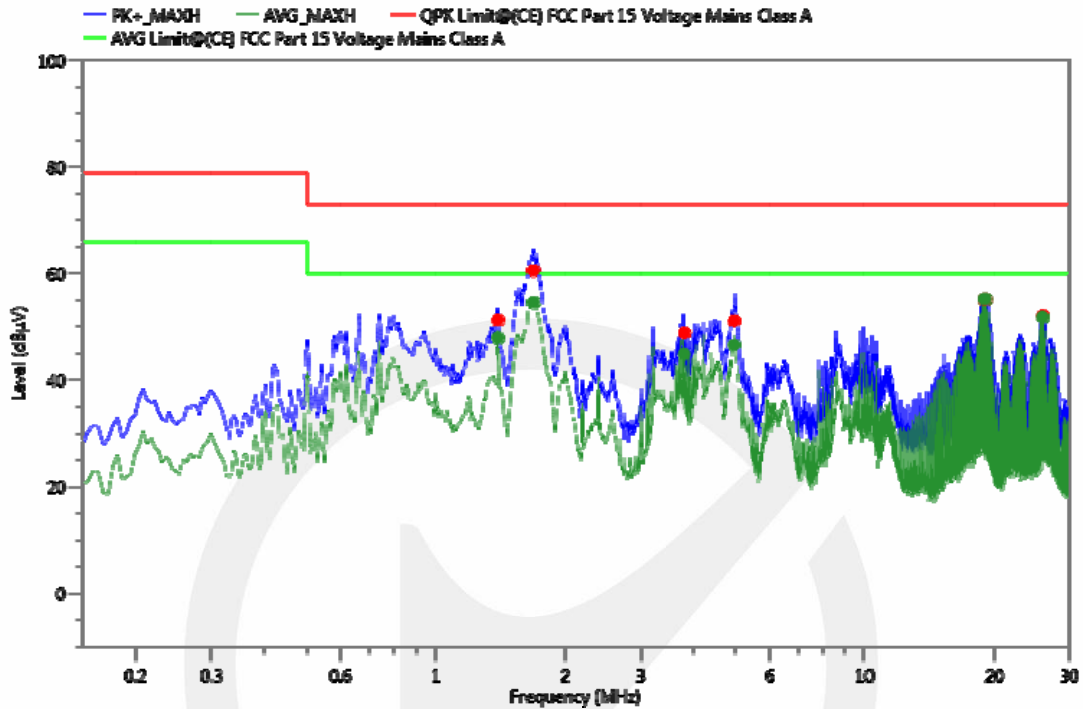
The EUT was placed on a table which is 0.8 m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

Pass.

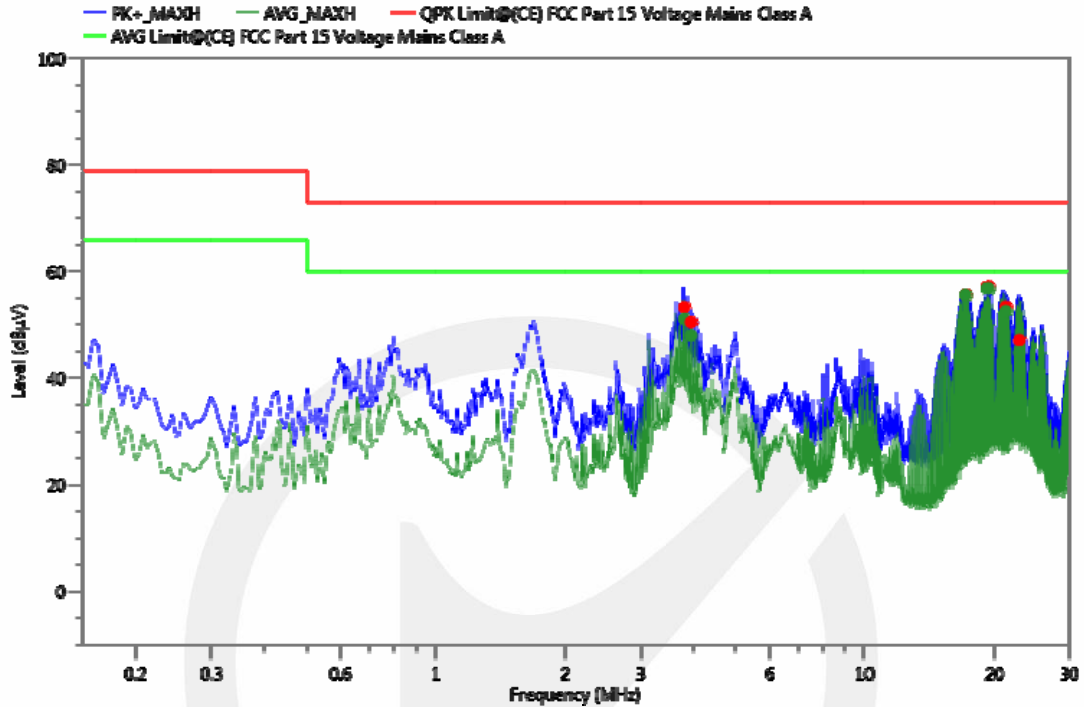
All modes have been tested, and the worst result recorded was report as below:

Project Information			
Mode:	TX 2402 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 17°C; Humi:35%	Engineer:	Eric



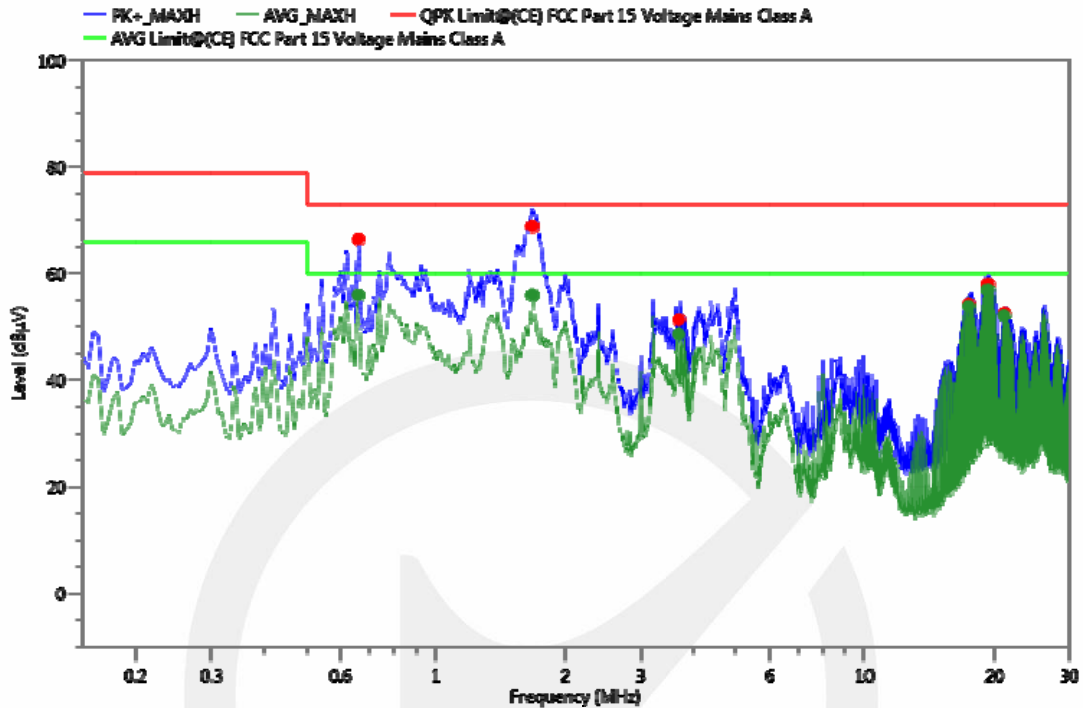
Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV)	Limit (dBμV)	Margin (dB)	Det.	Line	PE	Verdict
1.398	31.63	19.62	51.25	73.00	21.75	QPK	N	GND	PASS
1.398	28.29	19.62	47.91	60.00	12.09	AVG	N	GND	PASS
1.685	40.91	19.62	60.53	73.00	12.47	QPK	N	GND	PASS
1.685	34.95	19.62	54.57	60.00	5.43	AVG	N	GND	PASS
3.794	29.14	19.66	48.80	73.00	24.20	QPK	N	GND	PASS
3.794	25.16	19.66	44.82	60.00	15.18	AVG	N	GND	PASS
4.972	31.31	19.77	51.08	73.00	21.92	QPK	N	GND	PASS
4.972	26.76	19.77	46.53	60.00	13.47	AVG	N	GND	PASS
19.036	34.90	20.21	55.11	73.00	17.89	QPK	N	GND	PASS
19.036	34.95	20.21	55.16	60.00	4.84	AVG	N	GND	PASS
25.959	31.52	20.54	52.06	73.00	20.94	QPK	N	GND	PASS
25.959	31.22	20.54	51.76	60.00	8.24	AVG	N	GND	PASS

Project Information			
Mode:	TX 2402 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 17°C; Humi:35%	Engineer:	Eric



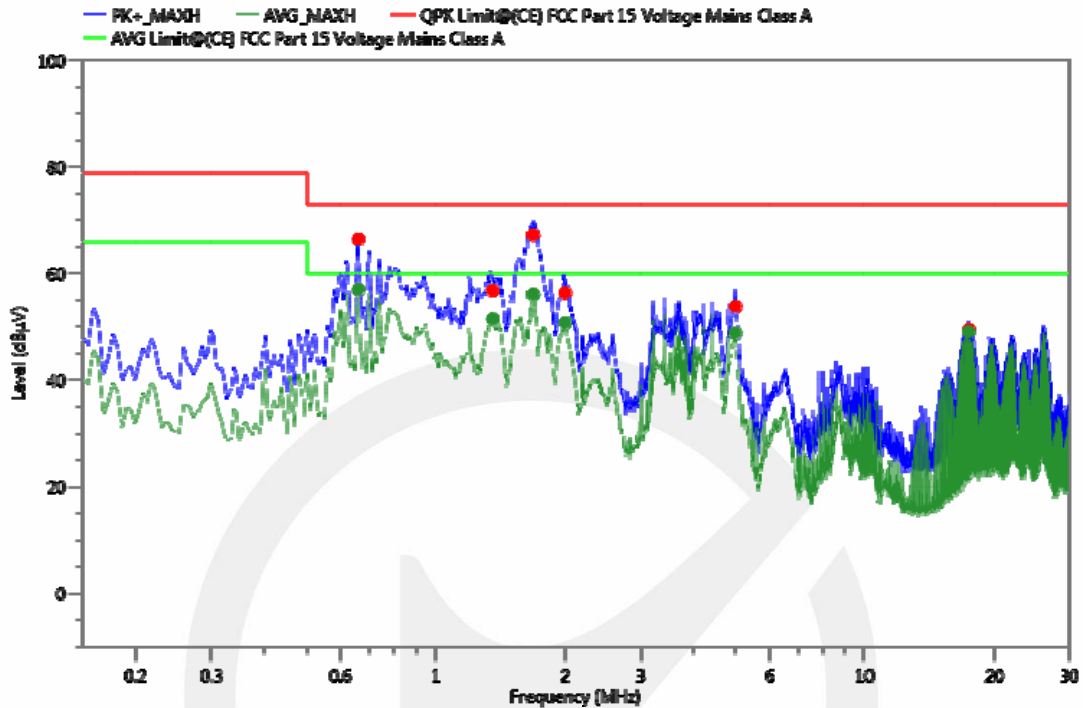
Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV)	Limit (dBμV)	Margin (dB)	Det.	Line	PE	Verdict
3.794	33.49	19.73	53.22	73.00	19.78	QPK	L1	GND	PASS
3.794	31.28	19.73	51.01	60.00	8.99	AVG	L1	GND	PASS
3.937	30.71	19.73	50.44	73.00	22.56	QPK	L1	GND	PASS
3.937	28.20	19.73	47.93	60.00	12.07	AVG	L1	GND	PASS
17.200	35.48	20.18	55.66	73.00	17.34	QPK	L1	GND	PASS
17.200	35.36	20.18	55.54	60.00	4.46	AVG	L1	GND	PASS
19.336	36.83	20.3	57.13	73.00	15.87	QPK	L1	GND	PASS
19.336	36.47	20.3	56.77	60.00	3.23	AVG	L1	GND	PASS
21.271	32.88	20.39	53.27	73.00	19.73	QPK	L1	GND	PASS
21.271	32.07	20.39	52.46	60.00	7.54	AVG	L1	GND	PASS
22.901	26.59	20.45	47.04	73.00	25.96	QPK	L1	GND	PASS
22.901	24.25	20.45	44.70	60.00	15.30	AVG	L1	GND	PASS

Project Information			
Mode:	TX 2402 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 17°C; Humi:35%	Engineer:	Eric



Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV)	Limit (dBµV)	Margin (dB)	Det.	Line	PE	Verdict
0.660	47.01	19.42	66.43	73.00	6.57	QPK	L2	GND	PASS
0.660	36.50	19.42	55.92	60.00	4.08	AVG	L2	GND	PASS
1.676	49.21	19.64	68.85	73.00	4.15	QPK	L2	GND	PASS
1.676	36.34	19.64	55.98	60.00	4.02	AVG	L2	GND	PASS
3.682	31.63	19.66	51.29	73.00	21.71	QPK	L2	GND	PASS
3.682	28.90	19.66	48.56	60.00	11.44	AVG	L2	GND	PASS
17.504	33.94	20.26	54.20	73.00	18.80	QPK	L2	GND	PASS
17.504	33.51	20.26	53.77	60.00	6.23	AVG	L2	GND	PASS
19.336	37.56	20.37	57.93	73.00	15.07	QPK	L2	GND	PASS
19.336	36.48	20.37	56.85	60.00	3.15	AVG	L2	GND	PASS
21.064	32.07	20.45	52.52	73.00	20.48	QPK	L2	GND	PASS
21.064	31.58	20.45	52.03	60.00	7.97	AVG	L2	GND	PASS

Project Information			
Mode:	TX 2402 MHz	Voltage:	AC 480 V/60 Hz
Environment:	Temp: 17°C; Humi:35%	Engineer:	Eric



Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV)	Limit (dBμV)	Margin (dB)	Det.	Line	PE	Verdict
0.660	47.02	19.43	66.45	73.00	6.55	QPK	L3	GND	PASS
0.660	37.56	19.43	56.99	60.00	3.01	AVG	L3	GND	PASS
1.358	37.15	19.67	56.82	73.00	16.18	QPK	L3	GND	PASS
1.358	31.82	19.67	51.49	60.00	8.51	AVG	L3	GND	PASS
1.681	47.58	19.66	67.24	73.00	5.76	QPK	L3	GND	PASS
1.681	36.44	19.66	56.10	60.00	3.90	AVG	L3	GND	PASS
1.999	36.69	19.66	56.35	73.00	16.65	QPK	L3	GND	PASS
1.999	31.15	19.66	50.81	60.00	9.19	AVG	L3	GND	PASS
4.999	34.04	19.75	53.79	73.00	19.21	QPK	L3	GND	PASS
4.999	29.08	19.75	48.83	60.00	11.17	AVG	L3	GND	PASS
17.500	29.26	20.24	49.50	73.00	23.50	QPK	L3	GND	PASS
17.500	28.81	20.24	49.05	60.00	10.95	AVG	L3	GND	PASS

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 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.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 Result

PASS.

The EUT has 1 antenna: an PCB Antenna gain is 5.52 dBi;

Note: ☒ Antenna use a permanently attached antenna which is not replaceable.
☐ Not using a standard antenna jack or electrical connector for antenna replacement
☐ The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

*** End of Report ***

声 明 Statement

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Objections shall be raised within 20 days from the date receiving the report.