

Report No.: TW2501110-02E

Applicant:DMR TechnologiesProduct:Remote Control

Model No.: Agri-Pro H20, Agri-Pro

Trademark: DMR Technologies

Test Standards: FCC Part 15.247

Test Result:

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

Approved By em

Terry Tang

Manager

Dated:

February 06, 2025

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

### FCC-Registration No.: 744189

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

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

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

### A2LA (Certification Number:5013.01)

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

### CAB identifier: CN0033

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#### 1.0 General Details

### 1.1 Test Lab Details

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

#### 1.2 Applicant Details

Applicant:DMR TechnologiesAddress:2050 15th St., Detroit, MI 48216

### 1.3 Description of EUT

Product:	Remote Control
Manufacturer:	DMR Technologies
Address:	2050 15th St., Detroit, MI 48216
Trademark:	DMR Technologies
Additional Trademark:	N/A
Model Number:	Agri-Pro H20
Additional Model Numb	er: Agri-Pro
Hardware Version: V1.2	
Software Version: V1.1	
Serial No.: 2025H20A00	001
Type of Modulation	GFSK (Bluetooth BLE)
Frequency range	2402-2480MHz
Frequency Selection	By software
Channel Number	40
Rating:	Input: DC12V, 3A
Battery:	DC3.7V, 20000mAh Li-ion battery

- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2025-01-09 to 2025-02-06
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB

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Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy - Xing

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

#### 2.2 Automation Test Software

For Conducted Emission Test

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

### For Radiated Emissions

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

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#### **3.0** Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.207	<b>Conducted Emission Test</b>	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies	
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies	
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies	
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies	
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies	

### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

#### 4.0 EUT Modification

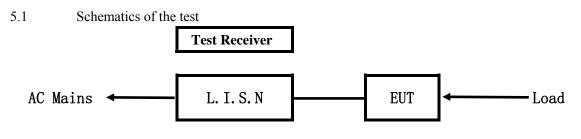
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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### 5.0 Power Line Conducted Emission Test



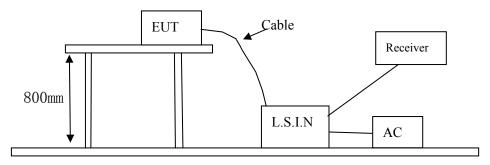
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



#### 5.3 Configuration of The EUT

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

A.	EUT

Device	Manufacturer	Model	FCC ID
Remote Control	DMR Technologies	Agri-Pro H20, Agri-Pro	2BM3J-H20

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A;
			Output: DC5V, 3A;
			5-20A; 6.2- 3.25A(67W Max)

### 5.4 EUT Operating Condition Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB µ V)		
(MHz)	Quas -peak Level	Ave age Level	
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	56.0	46.0	
$5.00 \sim 30.00$	60.0	50.0	

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

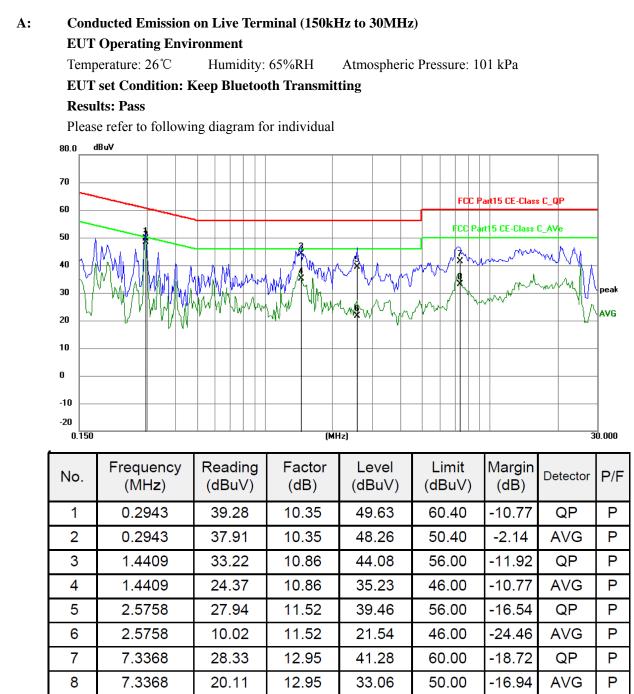
### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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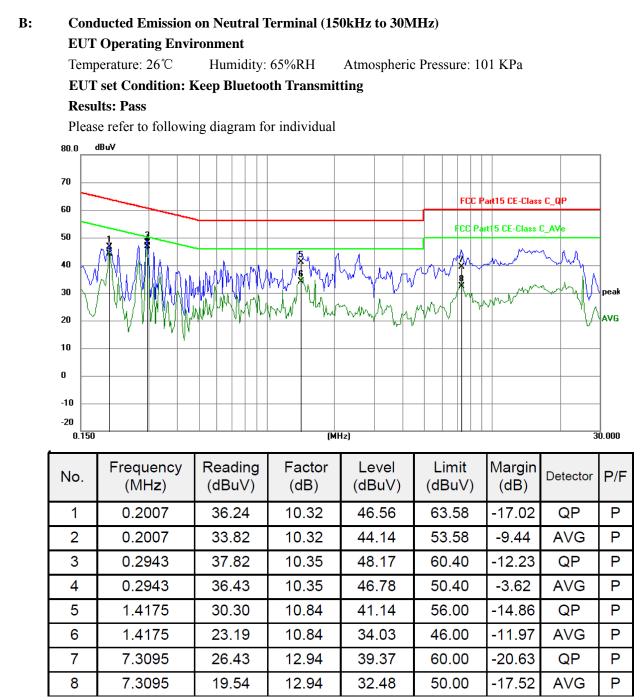




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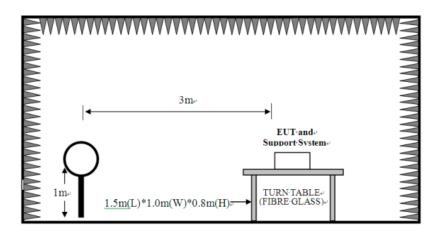


#### 6 Radiated Emission Test

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

#### **Block diagram of Test setup**

For radiated emissions from 9kHz to 30MHz

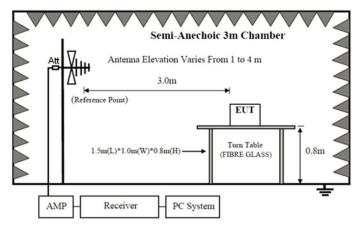


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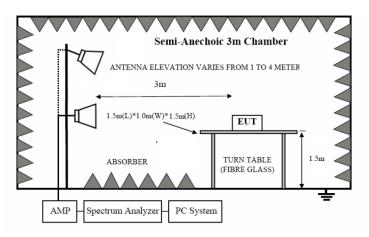
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

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

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#### Frequencies in restricted band are complied to limit on Paragraph 15.209

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

Note:

### 1. RF Voltage (dBuV) = $20 \log \text{RF}$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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### Test result General Radiated Emission Data and Harmonics Radiated Emission Data

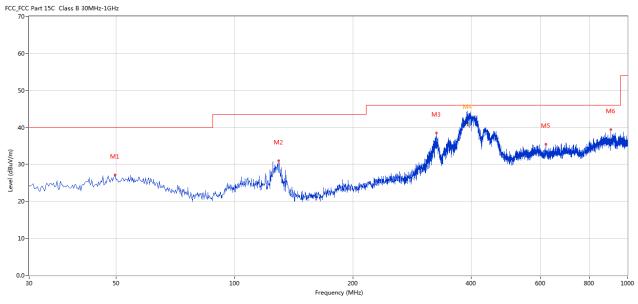
### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

**Results:** 

Pass

Test Figure:



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	49.638	27.22	-5.22	40.0	12.78	Peak	174.00	100	Horizontal	Pass
2	129.643	30.99	-8.55	43.5	12.51	Peak	347.00	100	Horizontal	Pass
3	326.746	38.55	-3.41	46.0	7.45	Peak	30.00	100	Horizontal	Pass
4*	392.649	40.65	-1.78	46.0	5.35	QP	112.00	101	Horizontal	Pass
5	619.613	35.52	1.48	46.0	10.48	Peak	277.00	100	Horizontal	Pass
6	908.115	39.37	5.10	46.0	6.63	Peak	224.00	100	Horizontal	Pass

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### Test result General Radiated Emission Data and Harmonics Radiated Emission Data

### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

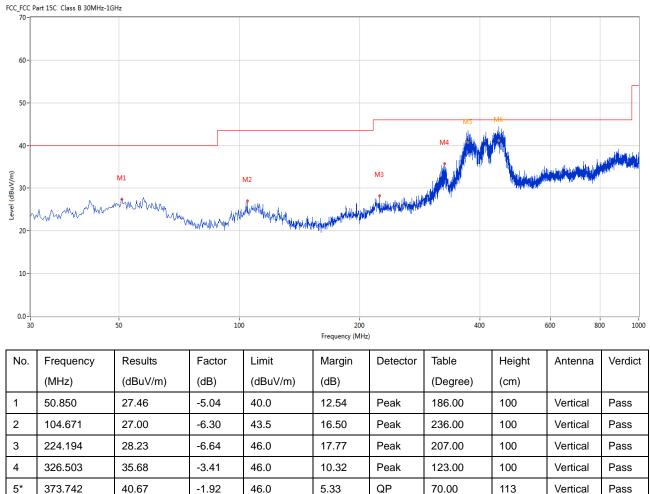
**Results:** 

Pass

Test Figure:

6\*

446.471



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-0.95

46.0

41.15

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4.85

QP

220.00

114

Vertical

Pass



Operation mode.	Transmitting under Low Ci		
Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4804		Н	74(Peak)/ 54(AV)
4804		V	74(Peak)/ 54(AV)
7206		H/V	74(Peak)/ 54(A)
960		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Pe k)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

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

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

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

optimion intout	Transmitting 5 under windu		)
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4880		Н	74(Peak)/ 54(AV)
4880		V	74(Peak)/ 54(AV)
7320		H/V	74(Peak)/ 54(AV)
9760		H/V	74(Peak)/ 54(AV)
12200		H/V	74(Peak)/ 54(AV)
14640		H/V	74(Peak)/ 54(AV)
17080		H/V	74(Peak)/ 54(AV)
19520		H/V	74(Peak)/ 54(AV)
21960		H/V	74(Peak)/ 54(AV)
24400		H/V	74(Peak)/ 54(AV)

#### **Operation Mode: Transmitting g under Middle Channel (2440MHz)**

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

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

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Operation Mode:	Transmitting under High C	nannel (2480MHZ)	
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		Н	74(Peak)/ 54(AV)
4960		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

#### Operation Mode<sup>•</sup> Transmitting under High Channel (2480MHz)

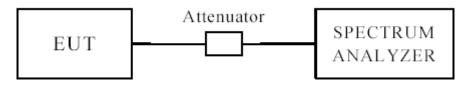
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit 2. Remark "---" means that the emissions level is too low to be measured

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7.0 6dB Bandwidth Measurement 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW)  $\ge$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

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

### 7.4 Test Result

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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
		2402		0.72	0.5	Pass
	BLE 1M	2440		0.707	0.5	Pass
NVNT		2480	Ant1	0.751	0.5	Pass
INVINI		2402	Anti	1.157	0.5	Pass
	BLE 2M	2440		1.146	0.5	Pass
		2480		1.115	0.5	Pass

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		dwidth NVNT BLE 1M 24	402MHz Ant1	
gilent Spectrum Analyzer - Occu RL RF 50 Q Center Freq 2.40200	AC 0000 GHz	SENSE:INT Center Freq: 2.402000000 GHz Trig: Free Run Avg Hold #Atten: 30 dB	ALIGN AUTO 01:37:22 PM Jan 2 Radio Std: None : 100/100 Radio Device: B	Frequency
Ref Offset 2 0 dB/div Ref 22.92	2.92 dB		Mkr3 2.402356	GHz
.og		4		Center Fred
2.92	2 Varman	·······	3	2.402000000 GH
7.1	and the second s		and the second s	
27.1 Manual Manua Manual Manual Manua			Marine Marine Carlos	~~~
47.1				
57.1				
ienter 2.402 GHz			Enor 3	МИЗ
Res BW 100 kHz		#VBW 300 kHz	Span 2 Sweep 1.33	3 ms 200.000 kHz
Occupied Bandy	width	Total Power	6.06 dBm	<u>Auto</u> Mar
	1.1056 MH	Z		Freq Offse
Transmit Freq Erro	or -3.731 kH	Iz OBW Power	99.00 %	0 H:
x dB Bandwidth	720.0 kH	lz xdB	-6.00 dB	
3G	-6dB Banc	dwidth NVNT BLE 1M 2-	status 440MHz Ant1	
		dwidth NVNT BLE 1M 24		
gilent Spectrum Analyzer - Occu RL RF 50 Ω	apied BW	SENSE:INT		
z <mark>ilent Spectrum Analyzer - Οccu R L RF 50 Ω</mark>	AC 0000 GHz		440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2: Radio Std: None	Frequency
client Spectrum Analyzer - Occu RL RF 50 @ Center Freq 2.440000 Ref Offset 2 0 dB/div Ref 22.96	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant 1 ALIGNAUTO 01:39:15 PM Jan 2 Radio Std: None : 100/100	Frequency ITS GHZ
glient Spectrum Analyzer - Occi RL RF 50 Ω enter Freq 2.440001 Ref Offset 2 0 dB/div Ref 22.96	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	GHz IBm
client Spectrum Analyzer - Occu RL RF 50 Ω center Freq 2.440000 Ref Offset 2 0 dB/div Ref 22.96 og	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	TS GHz IBm Center Fred
client Spectrum Analyzer - Occu RL RF 50 Ω center Freq 2.440000 Ref Offset 2 0 dB/div Ref 22.96 og 296 7.04	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	TS GHz IBm Center Fred
RL         RF         50 Ω           enter Freq 2.440001         Ref Offset 2           0 dB/div         Ref 22.96           0 dB/div         Ref 2.44000	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	TS GHz IBm Center Fred
RL         RF         50 Q           enter Freq 2.440001         Ref Offset 2           0 dB/div         Ref 22.96           0 g	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	TS GHz IBm Center Fred
RL         RF         50 Q           enter Freq 2.440001         Ref Offset 2           0 dB/div         Ref 22.96           0 g	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	TS GHz IBm Center Fred
	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO OI:39:15 PM 3an2 Radio Std: None Radio Device: B Mkr3 2.440346 0 -9.1814 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency TS GHz IBm Center Frec 2.440000000 GH:
RL         RF         50.2           enter Freq 2.440000         Ref Offset 2           0 dB/div         Ref Offset 2           0 dB/div         Ref 22.96           2.96	AC OOD GHZ #IFGain:Low	SENSE:INT Center Freq: 2.440000000 GHz Trig: Free Run Avg Hold	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan2 Radio Std: None 100/100 Radio Device: B Mkr3 2.440346 (	MHz 3 ms CFF Step 200.000 kHz
Rt         RF         50 Q           enter Freq 2.440001         Ref Offset 2           0 dB/div         Ref 22.96           0 296         296           0.04         200           7.0	upled BW AC D0000 GHz #IFGain:Low 2.96 dB 0 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.44000000 GHz Trig: Free Run Avg Hold #Atten: 30 dB	440MHz Ant1 ALIGNAUTO 01:39:15 PM Jan 22 Radio Std: None Radio Device: B Mkr3 2.440346 0 -9.1814 c	MHz 3 ms CF Step 200.000 kHz
RL         RF         50.2           enter Freq 2.440000	vidth	SENSE:INT Center Freq: 2.44000000 GHz Trig: Free Run Avg Hold #Atten: 30 dB	440MHz Ant1 ALIGNAUTO COL:39:15 PM Jan 2 Radio Std: None Radio Device: B Mkr3 2.440346 0 -9.1814	MHz 3 ms Frequency Center Frequency 2.440000000 GH; CF Step 200.000 kH; Auto Mar
Ref Offset 2         Ref Offset 2           0 dB/div         Ref Offset 2           296         0           296         0           7.0         0	upied BW         AC         AC         AC         O0000 GHz         #IFGain:Low         2:96 dB         dBm         4 <td< td=""><td>SENSE:INT Center Freq: 2.44000000 GHz Trig: Free Run Avg Hold #Atten: 30 dB</td><td>440MHz Ant1 ALIONAUTO 01:39:15 PM Jan 2 Radio Std: None Radio Device: B Mkr3 2.440346 0 -9.1814 c -9.1814 c -9.181</td><td>MHz 3 ms CFF Step 200.000 kHz</td></td<>	SENSE:INT Center Freq: 2.44000000 GHz Trig: Free Run Avg Hold #Atten: 30 dB	440MHz Ant1 ALIONAUTO 01:39:15 PM Jan 2 Radio Std: None Radio Device: B Mkr3 2.440346 0 -9.1814 c -9.1814 c -9.181	MHz 3 ms CFF Step 200.000 kHz
RL         RF         50.2           enter Freq 2.440000         Ref Offset 2           0 dB/div         Ref 0ffset 2           0 dB/div         Ref 22.96           296	vidth	SENSE:INT Center Freq: 2.44000000 GHz Trig: Free Run Avg Hold #Atten: 30 dB	440MHz Ant1 ALIGNAUTO COL:39:15 PM Jan 2 Radio Std: None Radio Device: B Mkr3 2.440346 0 -9.1814	MHz 3 ms Frequency Center Frec 2.440000000 GHz 200.000 kHz Freq Offset

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	um Analyzer - Occ							0.1		
	RF 50 Ω req 2.48000	0000 GI	Hz Gain:Low	Center		000 GHz Avg Hold	ALIGN AUTO	01:40:53 F Radio Sto Radio Der		Frequency
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enter 2. Res BW	48 GHZ 100 kHz			#V	/BW 300 kH	łz			an 2 MHz 1.333 ms	200.000 KH
Occup	bied Band	width			Total Po	wer	6.53	3 dBm		<u>Auto</u> Ma
		1.18	316 MH	z						Freq Offse
Transn	nit Freq Err	or	-19.401 k	Hz	OBW Po	wer	99	9.00 %		0 Н
	andwidth		750.8 kl		x dB			00 dB		
G							STATU	3		
G			-6dB Ban	dwidth	NVNT BL	.E 2M 24				
ilent Spectro	um Analyzer - Οcc RF 50 Ω	AC			SENSE:INT			Ant1	M Jan 23, 2025 : None	Frequency
ilent Spectro		AC   0000 GI		Center	EENSE:INT Freq: 2.402000 ee Run		402MHz	Ant1	: None	Frequency
ilent Spectri RL enter Fi	RF 50 Ω	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1 01:42:46 F Radio Sto Radio De 2.402	: None	
odB/div	RF 50 Ω req 2.40200 Ref Offset	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1 01:42:46 F Radio Sto Radio De 2.402	: None vice: BTS 572 GHz	
cilent Spectro RL enter Fi	RF 50 Ω req 2.40200 Ref Offset	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1 01:42:46 F Radio Sto Radio De 2.402	: None vice: BTS 572 GHz	
rilent Spectr RL enter Fi 0 dB/div og 2.9	RF 50 Ω req 2.40200 Ref Offset Ref 22.92	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1  01:42:46 F Radio Stc 2.402 -6.32	: None vice: BTS 572 GHz 83 dBm	Center Fre
o dB/div 9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2	RF 50 Ω req 2.40200 Ref Offset	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1 01:42:46 F Radio Sto Radio De 2.402	: None vice: BTS 572 GHz	Center Fre
o dB/diy og 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	RF 50 Ω req 2.40200 Ref Offset Ref 22.92	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1  01:42:46 F Radio Stc 2.402 -6.32	: None vice: BTS 572 GHz 83 dBm	Center Fre
BL         BL           enter Fr         9           0 dB/div         9           9         9           99         9           98         9           97         1           7.1         1           7.1         1	RF 50 Ω req 2.40200 Ref Offset Ref 22.92	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1  01:42:46 F Radio Stc 2.402 -6.32	: None vice: BTS 572 GHz 83 dBm	Center Fre
Jilent Spectry           RL           enter Fr           0 dB/div           0 g           9 92           99           92           92           92           92           92           92           92           92           92           92           93           7.1           7.1           7.1	RF 50 Ω req 2.40200 Ref Offset Ref 22.92	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1  01:42:46 F Radio Stc 2.402 -6.32	: None vice: BTS 572 GHz 83 dBm	Center Fre
Bilent Spectry           RL           enter Fr           0 dB/div           0 g           2.9           .92           .92           .08           .7.1           .7.1           .7.1           .7.1           .7.1           .7.1           .7.1           .7.1	RF 50 Ω req 2.40200 Ref Offset Ref 22.92	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr	EENSE:INT Freq: 2.402000 ee Run	000 GHz	402MHz Align Auto 1: 100/100	Ant1  01:42:46 F Radio Stc 2.402 -6.32	: None vice: BTS 572 GHz 83 dBm	Center Fre
Stient Spectry           RL           RL           O dB/div           0g           2.9           2.9           2.9           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1           7.1	RF 50 Ω req 2.40200 Ref Offset Ref 22.92	AC 0000 GF #IF 2.92 dB	Hz	Center Trig: Fr #Atten:	EENSE:INT Freq: 2.402000 ee Run	000 GHz Avg Hold	402MHz Align Auto 1: 100/100	Ant1 01:42:46/ Radio Sto 2.402: -6.32 3 	: None vice: BTS 572 GHz 83 dBm	Center Fre 2.402000000 GH
Genter Fr           0 dB/div           0 g           1 29           29           29           10 400           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1	Ref Offset Ref 22.92	AC 00000 Gł #IF 2.92 dB 2 dBm	Hz	Center Trig: Fr #Atten:	SENSE:INT Freq: 2,4020000 ee Run 30 dB	000 GHz Avg Hold	402MHz ALIGNAUTO : 100/100 Mkr3	Ant1 01:42:46 F Radio Dec 2.4023 -6.32 3 	: None vice: BTS 72 GHz 83 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Center Fre 2.402000000 GH
Genter Fr           0 dB/div           0 g           1 29           29           29           10 400           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1           17.1	Ref Offset Ref 22.92	AC 00000 Gi #IF 2.92 dB 2 dBm 2 dBm	Hz Gain:Low	Center Trig: Fr #Atten:	SENSE:INT Freq: 2,402000 ee Run 30 dB	000 GHz Avg Hold	402MHz ALIGNAUTO : 100/100 Mkr3	Ant1 01:42:46/ Radio Sto 2.402: -6.32 3 	: None vice: BTS 72 GHz 83 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Center Fre 2.402000000 GH 2.40200000 GH CF Ste 200.000 kH <u>Auto</u> Ma
Itent Spectry           RL           enter Fr           0 dB/div           29           29           0.08           7.1           7.1           7.1           7.1           7.1           7.1           7.1           9           7.1           9           7.1           9           1           <	Ref Offset Ref 22.92	AC 0000 Gi #IF 2.92 dB 2 dBm 2 dBm 2 dBm 4 dBm 4 dBm 1.84	Hz Gain:Low	Center Trig: Fr #Atten:	SENSE:INT Freq: 2,402000 ee Run 30 dB ////////////////////////////	000 GHz Avg Hold	402MHz ALIGN AUTO : 100/100 Mkr3 	Ant1 01:42:46 F Radio Dec 2.402 -6.32 3 VMM SF Sweep 3 dBm	: None vice: BTS 72 GHz 83 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Center Fre 2.402000000 GH CF Stej 200.000 kH
Image: Spectral system           RL           enter Fr           9           29           29           29           29           29           7.1           7.1           7.1           7.1           7.1           7.1           7.1           Genter 2.           Res BW           Occup           Transn	Ref Offset Ref 22.92	AC 0000 Gi #IF 2.92 dB 2 dBm 2 dBm 2 dBm 4 dBm 4 dBm 1.84	Hz Gain:Low	Center Trig: Fr #Atten: #W #V	SENSE:INT Freq: 2,4020000 ee Run 30 dB	000 GHz Avg Hold	402MHz ALIGN AUTO : 100/100 Mkr3 	Ant1 01:42:46 F Radio Dec 2.4023 -6.32 3 	: None vice: BTS 72 GHz 83 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Center Fre 2.40200000 GH 2.40200000 GH CF Ste 200.000 kH Auto Ma
RL           enter Fr           0 dB/div           229           229           208           7.1           77.1	Ref Offset Ref 22.92	AC 0000 Gi #IF 2.92 dB 2 dBm 2 dBm 2 dBm 4 dBm 4 dBm 1.84	Hz Gain:Low	Center Trig: Fr #Atten: #W #V	SENSE:INT Freq: 2,402000 ee Run 30 dB ////////////////////////////	000 GHz Avg Hold	402MHz ALIGN AUTO : 100/100 Mkr3 	Ant1 01:42:46 F Radio Dec 2.402 -6.32 3 VMM SF Sweep 3 dBm	: None vice: BTS 72 GHz 83 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Center Fre 2.40200000 GH 2.40200000 GH CF Ste 200.000 kH Auto Ma
Image: Spectral system           RL           enter Fr           9           29           29           29           29           29           7.1           7.1           7.1           7.1           7.1           7.1           7.1           Genter 2.           Res BW           Occup           Transn	Ref Offset Ref 22.92	AC 0000 Gi #IF 2.92 dB 2 dBm 2 dBm 2 dBm 4 dBm 4 dBm 1.84	Hz Gain:Low	Center Trig: Fr #Atten: #W #V	SENSE:INT Freq: 2,4020000 ee Run 30 dB	000 GHz Avg Hold	402MHz ALIGN AUTO : 100/100 Mkr3 	Ant1 01:42:46 F Radio Dec 2.4023 -6.32 3 	: None vice: BTS 72 GHz 83 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Center Fre 2.402000000 GH 2.40200000 GH CF Ste 200.000 kH Auto Ma

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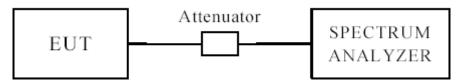
0 dB/div og 13.0 2.98 1.02 2.98 1.02 2.98 1.02	Ref Offset 2.98 dBm Ref 22.98 dBm 2.98 dBm 2.92	**************************************	VBW 300 kHz Total Power	Radio D Mkr3 2.480 -7.1 	284 dBm	Center Free 2.480000000 GH 200.000 KH Auto Mai Freq Offse 0 H
0 dB/div og 13.0 2.98 102 2.98 102 102 102 102 102 102 102 102	Ref Offset 2.98 dB Ref 22.98 dBm 22.91 22.91 22.91 22.91 22.91 23.92 24.94 24.	10000000000000000000000000000000000000	VBW 300 kHz	Radio D Mkr3 2.480 -7.1	548 GHz 284 dBm	2.480000000 GH С <b>F Ste</b> <u>г</u> 200.000 кH
0 dB/div og 2,98 2,99	Ref Offset 2.98 dBm	an ounicon		Radio D Mkr3 2.480 -7.1	548 GHz 284 dBm	2.48000000 GH
0 dB/diy og 13.0 2.98 7.02 7.0 4,000 7.0 7.0 7.0 7.0 7.0 7.0 7.0	Ref Offset 2.98 dB Ref 22.98 dBm	an ounicon		Radio D Mkr3 2.480 -7.1	0548 GHz 284 dBm	
0 dB/diy 9 3.0 2.98 7.02 2.7.0 4/m	Ref Offset 2.98 dB Ref 22.98 dBm	an ounicon	mg///	Radio D Mkr3 2.480 -7.1	0548 GHz 284 dBm	
0 dB/diy 9 3 2.98 7.02 7.0 4 7.0 7.0	Ref Offset 2.98 dB Ref 22.98 dBm	an ounicon		Radio D Mkr3 2.480 -7.1	0548 GHz 284 dBm	
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0 dB/diy og 3.0	Ref Offset 2.98 dB Ref 22.98 dBm	an ounicon	mg Man Manuna	Radio D Mkr3 2.480 -7.1	0548 GHz 284 dBm	
0 dB/div og	Ref Offset 2.98 dB	an ounicon		Radio D Mkr3 2.480	0548 GHz	
	Ref Offset 2.98 dB	an ounicon	1. 30 dB	Radio D Mkr3 2.480	0548 GHz	
enter Fr					aulas PTC	
RL	m Analyzer - Occupied BW RF 50 Ω AC eq 2.480000000 (	GHz Cente			7 PM Jan 23, 2025 td: None	Frequency
			h NVNT BLE 2M	2480MHz Ant1		
6G				STATUS		
	it Freq Error andwidth	-14.962 kHz 1.146 MHz	OBW Power x dB	99.00 % -6.00 dB		0 Н
Occup	ied Bandwidth 1.8	3369 MHz	Total Power	5.96 dBm		Freq Offse
enter 2.4 Res BW		#	VBW 300 kHz	Swee	an 2 MHz 1.333 ms	CF Stej 200.000 kH Auto Ma
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~a	Ref Offset 2.96 dB Ref 22.96 dBm				175 dBm	
			n: 30 dB		evice: BTS	
0 dB/div		GHz Cente	sense:INT r Freq: 2.440000000 GHz ree Run Avg Ho		5 PM Jan 23, 2025 td: None	Frequency

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8. Maximum Output Power

8.1 Test Setup



### 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

### Note: the Peak power were measured.

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### **8.4Test Results**

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
	BLE	2402		0.45	0	0.45	30	Pass
	1M	2440		0.56	0	0.56	30	Pass
NVNT	I IVI	2480	A not 1	0.85	0	0.85	30	Pass
INVINI		2402	Ant1	0.31	0	0.31	30	Pass
	BLE 2M	2440		0.55	0	0.55	30	Pass
	ZIVI	2480		0.99	0	0.99	30	Pass

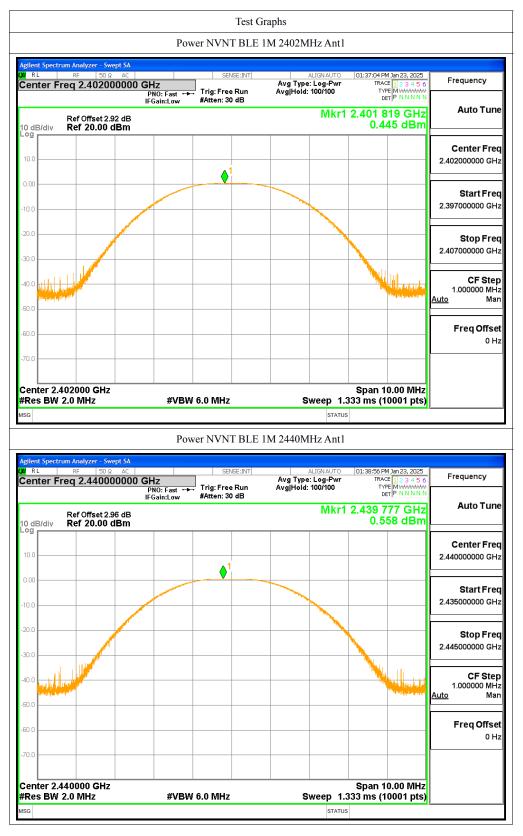
Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

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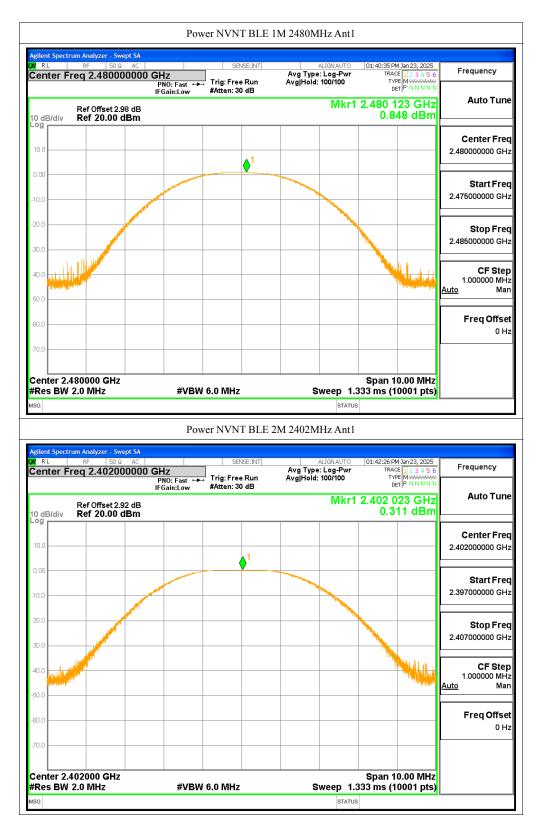




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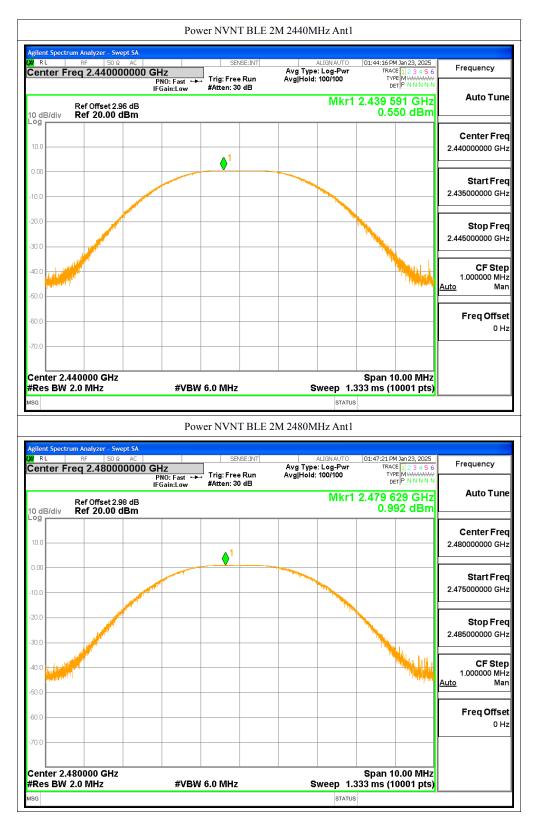




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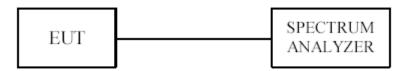
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### 9. Power Spectral Density Measurement

9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

- 2. Set the RBW = 100 kHz.
- 3. Set the VBW  $\geq$  300 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be  $\leq 8 \text{ dBm/3kHz}$ .

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### 9.4Test Result

Condition	Mode	Frequency	Antenna	Conducted PSD	Duty	Total PSD	Limit	Verdict
		(MHz)		(dBm/3kHz)	Factor	(dBm/100kHz)	(dBm/3kHz)	
					(dB)			
		2402		-0.48	0	-0.48	8	Pass
	BLE 1M	2440		-0.09	0	-0.09	8	Pass
NVNT	I IVI	2480	Ant1	0.25	0	0.25	8	Pass
INVINI	BLE	2402	Anti	-0.29	0	-0.29	8	Pass
	2M	2440		-0.34	0	-0.34	8	Pass
	ZIVI	2480		0.43	0	0.43	8	Pass

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

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gilent Spect	trum Analyzer - Swept SA					
U RL	RF 50 Ω AC Freq 2.48000000	0 GHz PNO: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	01:41:00 PM Jan 23, 2025 TRACE 1 2 3 4 5 1 TYPE M WWWWW	Frequency
0 dB/div	Ref Offset 2.98 dB Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB	Mkr1 2	0.250 dBrr	Auto Tun
10.0			- 1			Center Free 2.480000000 GH
0.00	Maran	happort	harver Martin	man han	W mar	<b>Start Fre</b> 2.479436750 GH
20.0					اسكوسيكي يسير	Stop Free 2.480563250 GH
40.0						CF Stej 112.650 kH <u>Auto</u> Ma
50.0 <b></b> 60.0 <b></b>						Freq Offse
#Res BW	.4800000 GHz / 100 kHz	#VBW	/ 300 kHz	Sweep 1	Span 1.127 MHz .000 ms (1001 pts	
SG gilent Spect	<b>100 kHz</b> trum Analyzer - Swept SA RF 50 Ω AC	PS	D NVNT BLE 2	· · ·	.000 ms (1001 pts	
gilent Speci RL Center F	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000000 Ref Offset 2.92 dB	PS	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts	Frequency Auto Tun
Res BW sg gilent Spect I RL Center F	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000000	PS 0 GHz PN0: Wide ↔	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts 01:42:52 PM Jan 23, 2025 TRACE 12 3 4 5 TYPE MWWWWW DET P NNNN	Frequency Auto Tun Center Fre
glent Spect	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000000 Ref Offset 2.92 dB	PS 0 GHz PN0: Wide ↔	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts 01:42:52 PM Jan 23, 2025 TRACE 12 3 4 5 TRACE 12 4 5 TRACE	Auto Tun Center Fre 2.40200000 GH
glient Spect	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000001 Ref Offset 2.92 dB Ref 20.00 dBm	PS 0 GHz PN0: Wide ↔	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts	Auto Tun Center Fre 2.40200000 GH Start Fre 2.401132250 GH Stop Fre
BW           ss           glent Spect           RL           Center F           0 dB/div           0 dB/div	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000001 Ref Offset 2.92 dB Ref 20.00 dBm	PS 0 GHz PN0: Wide ↔	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts	Frequency           Auto Tum           Center Frequency           2.402000000 GH           Start Frequency           2.401132250 GH           Stop Frequency           2.402867750 GH           CF Step           173.550 KH
Press         BW           sg	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000001 Ref Offset 2.92 dB Ref 20.00 dBm	PS 0 GHz PN0: Wide ↔	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts	Frequency           Auto Tum           Center Freq           2.402000000 GH           Start Freq           2.401132250 GH           Stop Freq           2.402867750 GH           173.550 KH           Auto           Freq Offse
#Res BW           Issg	f 100 kHz trum Analyzer - Swept SA RF 50 Ω AC Freq 2.402000001 Ref Offset 2.92 dB Ref 20.00 dBm	PS 0 GHz PN0: Wide ↔	SD NVNT BLE 2	STATUS M 2402MHz Ant 1 ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	000 ms (1001 pts	Frequency           Auto Tum           Center Freq           2.402000000 GH           Start Freq           2.401132250 GH           Stop Freq           2.402867750 GH           173.550 kH           Auto           Freq Offse           0 H

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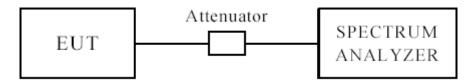


RL	trum Analyzer - Swept SA RF 50 Ω AC		SENSE:INT	ALIGN AUTO	01:44:41 PM Jan 23, 2025	
	Freq 2.440000000	) GHz PNO: Wide ↔ IFGain:Low		Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
0 dB/div	Ref Offset 2.96 dB Ref 20.00 dBm	II CUIILEUN		Mkr1 2.	439 520 4 GHz -0.342 dBm	Auto Tun
10.0						Center Fre 2.440000000 G⊢
0.00	www.www.	mann	M. M	Mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	har front of the second second	Start Fre 2.439140500 G⊢
20.0						<b>Stop Fre</b> 2.440859500 G⊢
40.0						CF Ste 171.900 k⊢ <u>Auto</u> Ma
60.0						Freq Offse 0 ⊢
	.4400000 GHz / 100 kHz	#VBV	V 300 kHz	Sweep 1.	Span 1.719 MHz 000 ms (1001 pts)	
		PS	SD NVNT BLE 2	M 2480MHz Ant1		
RL	trum Analyzer - Swept SA RF 50 Ω AC Freq 2.480000000		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	01:47:43 PM Jan 23, 2025 TRACE 1 2 3 4 5 6	Frequency
RL Senter F	RF 50 Ω AC Freq 2.480000000 Ref Offset 2.98 dB		SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN 479 510 0 GHz	
enter F	RF 50Ω AC Freq 2.480000000	) GHz PNO: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 123456 TYPE MWWWWWW DET PNNNNN	Auto Tun Center Fre
0 dB/div	RF 50 Ω AC Freq 2.480000000 Ref Offset 2.98 dB	) GHz PNO: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN 479 510 0 GHz	Auto Tun Center Fre 2.48000000 GF Start Fre
RL           center F           0 dB/div           0 dD/div           0 dD	RF 50 Ω AC Freq 2.480000000 Ref Offset 2.98 dB	) GHz PNO: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN 479 510 0 GHz	Auto Tun Center Fre 2.48000000 GH Start Fre 2.479163750 GH Stop Fre
RL           CodB/div           0	RF 50 Ω AC Freq 2.480000000 Ref Offset 2.98 dB	) GHz PNO: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN 479 510 0 GHz	Frequency Auto Tun Center Fre 2.480000000 GF 2.479163750 GF 2.479163750 GF 2.480836250 GF 2.480836250 GF CF Ste 167.250 kF Auto Ma
RL	RF 50 Ω AC Freq 2.480000000 Ref Offset 2.98 dB	) GHz PNO: Wide ↔	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNN 479 510 0 GHz	Auto Tun Center Fre 2.480000000 GF 2.479163750 GF 2.479163750 GF 2.480836250 GF 2.480836250 GF

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**10 Out of Band Measurement 10.1 Test Setup for band edge** 



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

### 10.2 Limits of Out of Band Emissions Measurement

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

### **10.3 Test Procedure**

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

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

#### 10.4 Test Result

Please see next pages

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

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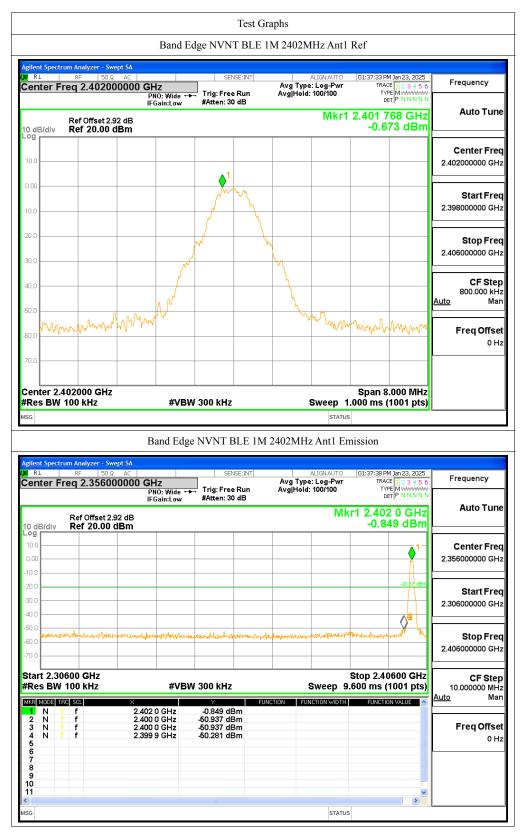
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Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
		2402		-49.61	-20	Pass
	BLE 1M	2480	Anti	-51.57	-20	Pass
NVNT	BLE 2M	2402	Ant1	-35.88	-20	Pass
	DLE ZIM	2480		-47.07	-20	Pass

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URL R	nalyzer - Swept SA F 50 Ω AC 2.4800000000	PNO: Wide ↔	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 100/100	01:41:04 PM Jan 23, 2025 TRACE 1 2 3 4 5 6 TYPE M WWWWW	
0 dB/div Re	f Offset 2.98 dB f <b>20.00 dB</b> m	IFGain:Low	#Atten: 30 dB	Mkr1	2.479 752 GHz 0.049 dBm	Auto Tup
10.0			.1			Center Fre 2.480000000 GH
0.00			- Minny			<b>Start Fre</b> 2.476000000 GH
20.0			plant and a second seco	h		<b>Stop Fre</b> 2.484000000 GH
40.0						CF Stej 800.000 kH Auto Ma
50.0 50.0	MMM	m^/·		- Why have a second sec	wahallam	Freq Offse
Center 2.4800					Span 8.000 MHz	
Res BW 100	kHz nalyzer - Swept SA			STATUR M 2480MHz Ant1 E1	l. <b>000 ms (1001 pts)</b> s nission	
Res BW 100	kHz nalyzer - Swept SA	Band Edg	e NVNT BLE 1	STATU	1.000 ms (1001 pts) s	Frequency
Res BW 100 gilent Spectrum A RL RL R Center Freq 0 dB/div Re	kHz nalyzer - Swept SA F 50 Ω AC	Band Edg GHz PN0: Wide ↔	e NVNT BLE 1 SENSE:INT	STATU: M 2480MHz Ant1 Er Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	I.000 ms (1001 pts) s nission 01:41:08 PM Jan 23, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW	- Frequency
Res BW 100 se gitent Spectrum A RL R RL R Center Freq 0 dB/div Re 0 dB/div Re 0 dB/div Re	kHz           nalyzer - Swept SA           F         50 Ω           AC           2.526000000           of Offset 2.98 dB	Band Edg GHz PN0: Wide ↔	e NVNT BLE 1 SENSE:INT	STATU: M 2480MHz Ant1 Er Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	1.000 ms (1001 pts) a nission 101:41:08 PM Jan 23, 2025 TRACE 12 24 5 6 TYPE MAWAWAWA DET P N N N N xr1 2.480 0 GHz	Frequency Auto Tun Center Free
Res BW 100           ss           glient.Spectrum A           RL         R           center Freq           0 dB/div         Re           0 00         1           0.00         1           0.00         1           0.00         1	kHz           nalyzer - Swept SA           F         50 Ω           2.526000000           of Offset 2.98 dB           ef Offset 2.00 dBm	Band Edg GHz PN0: Wide ↔	e NVNT BLE 1 SENSE:INT	STATU: M 2480MHz Ant1 Er Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	1.000 ms (1001 pts) a nission 101:41:08 PM Jan 23, 2025 TRACE 12 24 5 6 TYPE MAWAWAWA DET P N N N N xr1 2.480 0 GHz	- Frequency Auto Tun Center Fre 2.526000000 GH
Res BW 100           ss           glient Spectrum A           RL         R           Center Freq           0 dB/div         Re           0 db/div	kHz           nalyzer - Swept SA           F         50 Ω           AC           2.526000000           of Offset 2.98 dB	Band Edg	e NVNT BLE 1 SENSE:INT Trig: Free Run #Atten: 30 dB	STATU: M 2480MHz Ant1 Er Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	I.000 ms (1001 pts)	Center Free 2.52600000 GH 2.47600000 GH
Res BW 100           se           glient Spectrum A           RL         R           enter Freq           0.00         1	kHz	Band Edg GHz PNO: Wide → IFGain:Low	e NVNT BLE 1	STATU: M 2480MHz AntI Er ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 MH	LOOO ms (1001 pts)	Frequency           Auto Tun           Center Fre           2.526000000 GH           Start Fre           2.476000000 GH           Stop Fre           2.576000000 GH           CF Step           10.000000 MH
Res BW 100 sc glient Spectrum A RL R Center Freq Re	kHz	Band Edg GHz PNO: Wide → IFGain:Low	e NVNT BLE 1	STATU: M 2480MHz AntI Er ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 Mk	I.000 ms (1001 pts) nission II.41:08 PM Jan 23, 2025 TRACE II 2 3 4 5 6 TYPE IM WWWWW DET P NNNN cr1 2.480 0 GHz 0.050 dBm 19.95 dBm 19.95 dBm Stop 2.57600 GHz .600 ms (1001 pts)	Frequency Auto Tun Center Free 2.526000000 GH 2.476000000 GH Stop Free 2.576000000 GH CF Stej 10.00000 MH

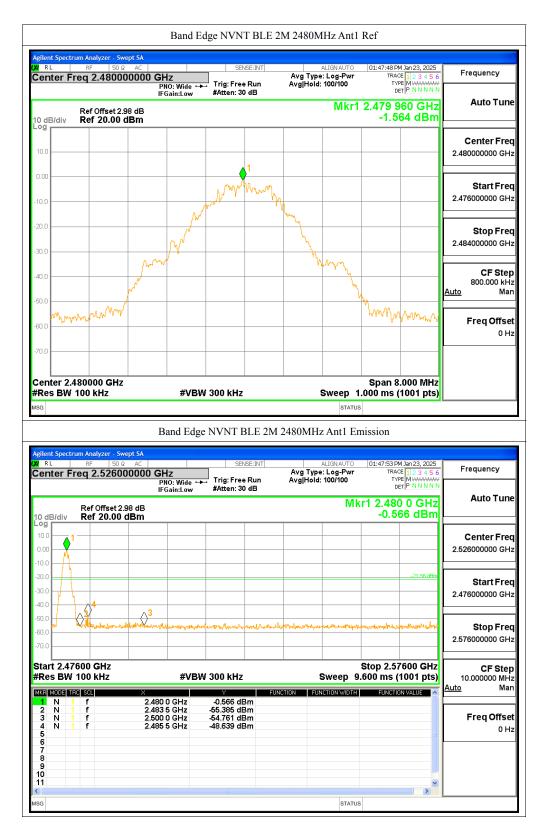
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agilent Spectrum Analyze R RL RF Center Freq 2.4	50 Ω AC 2000000 GHz PNO: Wide		ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	01:42:56 PM Jan 23, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N	Frequency
	IFGain:Lov et 2.92 dB .00 dBm	v #Atten: 30 dB	Mkr1	2.401 528 GHz -1.345 dBm	Auto Tun
10.0					Center Fre 2.402000000 GH
10.00		- And Mary			Start Fre 2.398000000 GH
20.0					Stop Fre 2.406000000 GH
40.0	Ann		Marmon		CF Ste 800.000 kH Auto Ma
50.0 60.0	Sword			manyan	Freq Offse
Center 2.402000 ( #Res BW 100 kHz		/BW 300 kHz		Span 8.000 MHz .000 ms (1001 pts)	
Res BW 100 kHz	#V Band E Γ - Swept SA		Sweep 1 status M 2402MHz Ant1 Et ALIGNAUTO Avg Type: Log-Pwr	.000 ms (1001 pts)	Frequency
Res BW 100 kHz sc glient Spectrum Analyze RL RF center Freq 2.3: Ref Offs	# Band E 50 Ω AC 50 Ω AC 56000000 GHz PN0: Wid IFGain:Lov set 2.92 dB	dge NVNT BLE 2	M 2402MHz Anti Ei Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	.000 ms (1001 pts)	
Res BW 100 kHz	# Band E 50 Ω AC 5 6000000 GHz PNO: Widd IFGain:Lov	dge NVNT BLE 2	M 2402MHz Anti Ei Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	.000 ms (1001 pts)	Auto Tun Center Fre
Res BW 100 kHz           sg           glent Spectrum Analyze           RL         RF           center Freq 2.33           Ref Offs           0 dB/div         Ref Offs           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0	# Band E 50 Ω AC 50 Ω AC 56000000 GHz PN0: Wid IFGain:Lov set 2.92 dB	dge NVNT BLE 2	M 2402MHz Anti Ei Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	.000 ms (1001 pts)	Auto Tun Center Fre 2.356000000 GH Start Fre
Res BW 100 kHz           ss           glent Spectrum Analyze           RL         RF           center Freq 2.33           Ref Offi           0 dB/div         Ref Offi           0 dB/div         Ref 20           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0           0 0         0	#W Band E Band E 56000000 GHz PN0: Widi F6ain:Lov set 2.92 dB .00 dBm	dge NVNT BLE 2 SENSE:INT Trig:Free Run #Atten: 30 dB	M 2402MHz Anti Ei Alignauto Avg Type: Log-Pwr Avg Hold: 100/100	.000 ms (1001 pts)	Auto Tun Center Fre 2.35600000 GH Start Fre 2.30600000 GH Stop Fre
Res BW 100 kHz           se           glient Spectrum Analyze           RL         RF           center Freq 2.35           center Freq 2.35           center Gff           0.00	# Band E F - Swept SA S00 Ω AC PNO: Wide IFGain:Low Set 2.92 dB 00 dBm	dge NVNT BLE 2 SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100 MH	.000 ms (1001 pts) a nission 01:43:01 PM Jan 23, 2025 TRACE 12:23 4 5 6 TYPE 14 50 TYPE 14 50 T	Auto Tun Center Fre 2.356000000 GH Start Fre 2.306000000 GH Stop Fre 2.406000000 GH
Res BW 100 kHz sg glent Spectrum Analyze RL RF Center Freq 2.3: Ref Offit	# Band E F - Swept SA S00 Ω AC PNO: Wide IFGain:Low Set 2.92 dB 00 dBm	dge NVNT BLE 2 SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO AUGNAUTO Avg Type: Log-Pwr AvgHold: 100/100 Mł	.000 ms (1001 pts) a nission 01:43:01 PM Jan 23, 2025 TRACE 12:3 4 5 6 TYPE 1 TYPE 1 0.619 dBm -0.619 dBm -21:55:6m -21:55:75:75:75:75:75:75:75:75:75:75:75:75:	Auto Tun Center Fre 2.356000000 GH Start Fre 2.306000000 GH Stop Fre 2.406000000 GH

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#### Restricted band Measurement

EUT	Remote Control			Model	Agri-Pro H20		
Mode	Keeping Transmitting			Test Voltage	DC3.7V		
Temperature	24 deg. C,			Humidity	56% RH		
Test Result:		Pass			РК		
	BLE-1M, Low Channel, Hor						
2390	PK (dBµV/m)	41.26		T insit	$74(dB\mu V/m)$		
	AV (dBµV/m)			Limit	54(dBµV/m)		
	BLE-1M, Low Channel Vertical						
2390	PK (dBµV/m)	40.07		T :	74(dBµV/m)		
	AV (dBµV/m)			Limit	54(dBµV/m)		

### Restricted band Measurement

EUT	Remote Control			Model		Agri-Pro H20	
Mode	Keeping Transmitting			Test Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Test Result:		Pass		De	etector	РК	
BLE-1M, High Channel, Horizontal							
2483.5	PK (dBµV/m)	PK (dBμV/m) 49.78			,	74(dBµV/m)	
	AV ( $dB\mu V/m$ )		Lim	IT	:	54(dBµV/m)	
BLE-1M, High Channel, Vertical							
2483.5	PK (dBµV/m)	45.62	Limit		74(dBµV/m)		
	AV ( $dB\mu V/m$ )		Lim	IL		54(dBµV/m)	

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#### Restricted band Measurement

EUT	Remote Control			Model		Agri-Pro H20
Mode	Keeping Transmitting			Test Voltage		DC3.7V
Temperature	24 deg. C,			Humidity		56% RH
Test Result:		Pass		De	tector	PK
BLE-2M, Low Channel, Horizontal						
2390	PK (dBμV/m) 41.86				74(dBµV/m)	
	AV (dBµV/m)		Lir	nit		54(dBµV/m)
BLE-2M, Low Channel Vertical						
2390	PK (dBµV/m)	40.36	Lir	nit.		74(dBµV/m)
	AV (dBµV/m)			IIIt		54(dBµV/m)

#### Restricted band Measurement

EUT	Remote Control			Model		Agri-Pro H20	
Mode	Keeping Transmitting			Test Voltage		DC3.7V	
Temperature	24 deg. C,			Humidity		56% RH	
Test Result:		Pass		De	etector	РК	
	BLE-2M, High Channel, Horizontal						
2483.5	PK (dBμV/m) 50.64					74(dBµV/m)	
	AV ( $dB\mu V/m$ )		Lim	IT		54(dBµV/m)	
	BLE-2M, High Channel, Vertical						
2483.5	PK (dBµV/m)	PK (dBμV/m) 46.81		•		74(dBµV/m)	
	AV ( $dB\mu V/m$ )		Limi	IL		54(dBµV/m)	

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### 11.0 Antenna Requirement

### **11.1 Standard Applicable**

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

### 11.2 Antenna Connected construction

FPC antenna used. The gain of the antennas is 4.54dBi (Get from the antenna specification provided the manufacturer)

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### 12.0 FCC ID Label

### FCC ID: 2BM3J-H20

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

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

#### Mark Location:



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#### 13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



**Photographs – EUT** Please refer test report TW2501110-01E

End of the report

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