

RF MEASUREMENT REPORT

FCC ID : 2BCGWBE250D
Applicant : TP-LINK CORPORATION PTE. LTD.
Application Type : Certification
Product : BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router
Model No. : Deco BE25-Outdoor
Brand Name : tp-link
FCC Classification : Digital Transmission System (DTS)
FCC Rule Part(s) : Part15 Subpart C (Section 15.247)
Received Date : June 3, 2024
Test Date : July 16, 2024~August 14, 2024

Test By : Owen Tsai
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Reviewed By : Paddy Chen
(Paddy Chen)

Approved By : Chenz Ker
(Chenz Ker)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2406TW0101-U2	1.0	Original Report	2024-08-30	Valid

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General Information

Applicant	TP-LINK CORPORATION PTE. LTD.
Applicant Address	7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer	TP-LINK CORPORATION PTE. LTD.
Manufacturer Address	7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	291082
FCC Rule Part(s)	Part 15.247

Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

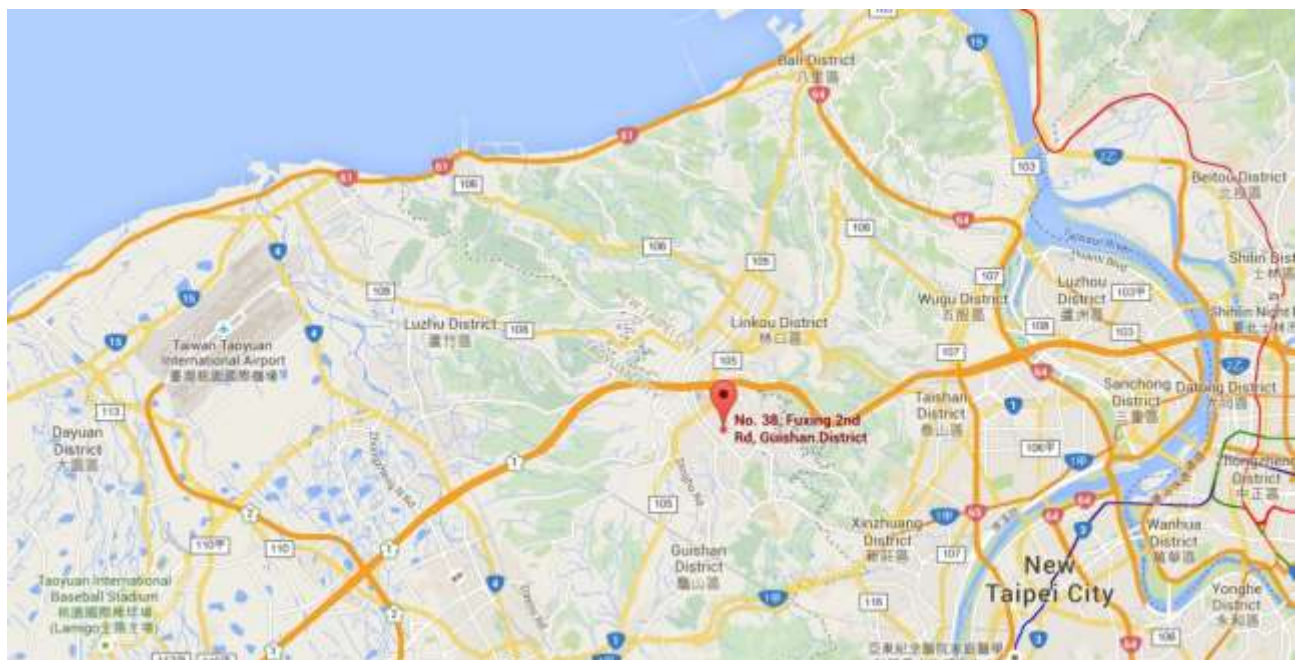
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name:	BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router
Model No.:	Deco BE25-Outdoor
Brand Name:	tp-link
Wi-Fi Specification:	802.11a/b/g/n/ac/ax/be & VHT
EUT Identification No.:	#1-1 (Conducted) #1-2 (Radiated)
Power Supply:	AC100-240V~50/60Hz 0.5A 802.3at PoE: 42.5-57V 0.6A

2.2. Product Specification Subjective to this Report

Frequency Range:	802.11b/g/n-HT20/ax-HE20/be-EHT20 & VHT20: 2412 ~ 2462MHz 802.11n-HT40/ax-HE40/be-EHT40 & VHT40: 2422 ~ 2452MHz
Channel Number:	802.11b/g/n-HT20/ax-HE20/be-EHT20 & VHT20: 11 802.11n-HT40/ax-HE40/be-EHT40 & VHT40: 7
Type of Modulation:	802.11b: DSSS 802.11g/n & VHT: OFDM 802.11ax/be: OFDMA
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ax: up to 574Mbps 802.11be: up to 688Mbps VHT: up to 400Mbps

Note: For other features of this EUT, test report will be issued separately.

2.3. Working Frequencies for this report

802.11b/g/n-HT20/ax-HE20/be-EHT20 & VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40/ax-HE40/be-EHT40 & VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

2.4. Description of Available Antennas

Antenna Type	Frequency Band (MHz)	T _x Paths	Max Antenna Gain (dBi)	Max. Antenna Gain (Elevation angle above 30°) (dBi)	Beamforming Directional Gain (dBi)	Beamforming Directional Gain (Elevation angle above 30°) (dBi)	CDD Directional Gain (dBi)	
							For Power	For PSD
Horizontal Antenna (TP-LINK P/N: 3101506351, 3101506352)								
Alford	2412 ~ 2462	2	2.70	--	5.71	--	2.70	5.71
Vertical Antenna (TP-LINK P/N: 3101505348, 3101505349)								
Dipole	2412 ~ 2462	2	3.20	--	6.21	--	3.20	6.21
	5150 ~ 5250	2	3.60	-4.00	6.61	-0.99	3.60	6.61
	5250 ~ 5850	2	3.60	--	6.61	--	3.60	6.61

Note:

- The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log (N_{ANT} / N_{SS})$ dB;

- For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB for $N_{ANT} \leq 4$;

2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax/be, not include 802.11a/b/g. BF Directional gain = $G_{ANT} + 10 \log (N_{ANT})$.
3. Horizontal antenna and Vertical antenna do not support simultaneous transmissions.
4. The Messages as above is from the AUT report.

Test Mode	T _x Paths	CDD Mode	Beamforming Mode
802.11b/g (DTS)	2	√	X
802.11n/ac/be & VHT (DTS)	2	√	√
802.11a (NII)	2	√	X
802.11n/ac/ax/be (NII)	2	√	√

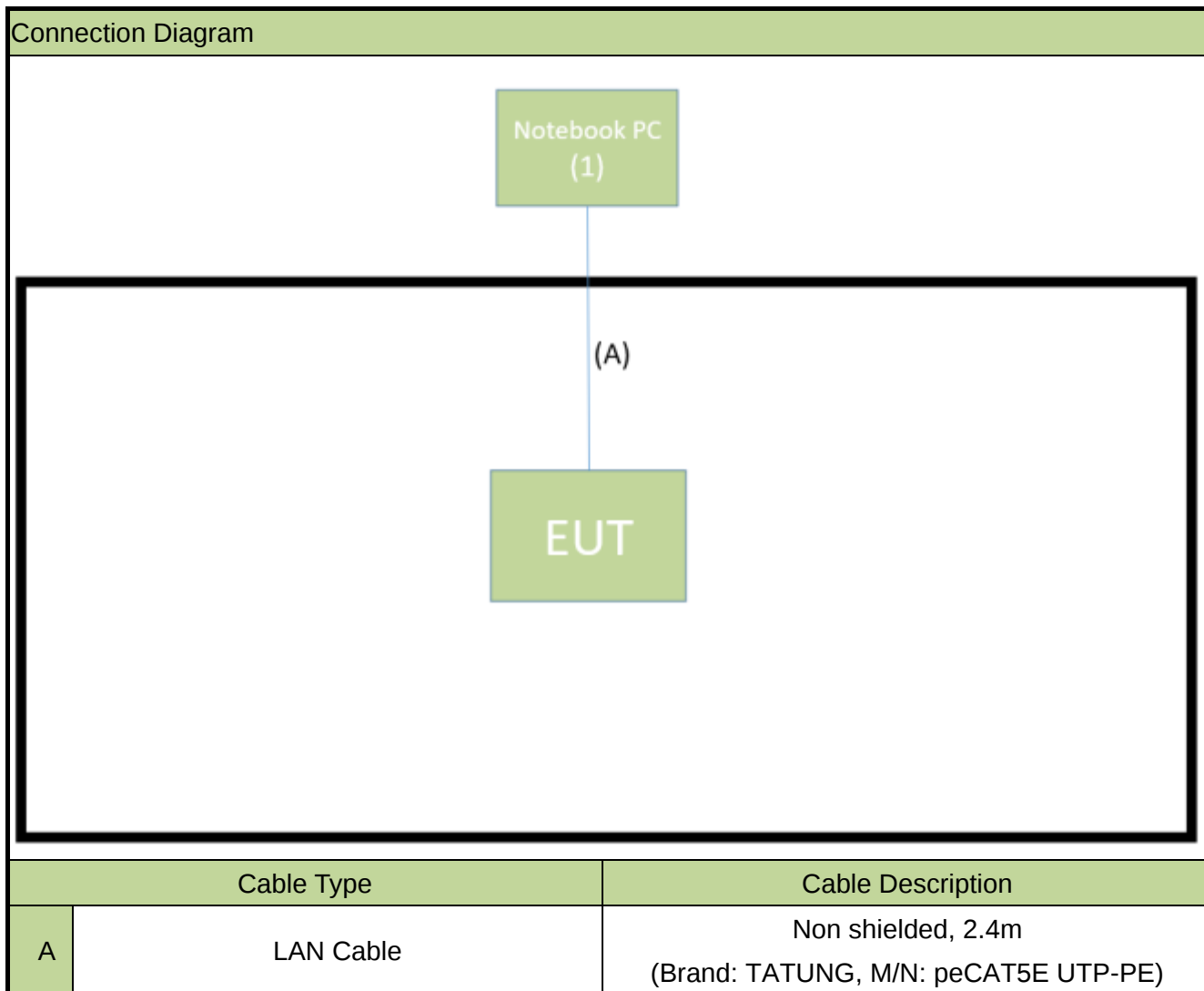
Note: "√" means "Support", "X" means "Not support".

2.5. Test Mode

CDD Mode
Mode 1: Transmit by 802.11b_ $N_{SS}=1$ (1Mbps)
Mode 2: Transmit by 802.11g_ $N_{SS}=1$ (6Mbps)
Mode 3: Transmit by 802.11n-HT20_ $N_{SS}=1$ (MCS0)
Mode 4: Transmit by 802.11n-HT40_ $N_{SS}=1$ (MCS0)
Mode 5: Transmit by 802.11ax-HE20_ $N_{SS}=1$ (MCS0)
Mode 6: Transmit by 802.11ax-HE40_ $N_{SS}=1$ (MCS0)
Mode 7: Transmit by 802.11be-EHT20_ $N_{SS}=1$ (MCS0)
Mode 8: Transmit by 802.11be-EHT40_ $N_{SS}=1$ (MCS0)
Beamforming Mode
Mode 7: Transmit by 802.11ax-HE20_ $N_{SS}=1$ (MCS0)
Mode 8: Transmit by 802.11ax-HE40_ $N_{SS}=1$ (MCS0)
Mode 9: Transmit by 802.11be-EHT20_ $N_{SS}=1$ (MCS0)
Mode 10: Transmit by 802.11be-EHT40_ $N_{SS}=1$ (MCS0)
Remark: 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. 2. This device supports 2 N_{SS} and power level of 2 N_{SS} is less than or equal to the power of 1 N_{SS}. The worst case is $N_{SS}=1$. 3. Due to CDD mode was the worst mode, so all test items were evaluated in this report. The beamforming mode only evaluated the RF output power. 4. EUT supports one configuration only in 802.11ax/be full RU mode. 5. 802.11n and VHT have same modulation type and same power value, so we only show 802.11n test data in report. 6. As Designated by manufacturer, the lowest data rate was the worst condition, so all the tests were done with lowest data rate.

2.6. Configuration of Test System

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.



2.7. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Lenovo	MP25ZAKY	N/A	Non-Shielded, 0.8m

2.8. Description of Test Software

The test utility software used during testing was “QSPR”, the version is ver5.0-00202.

Note: Final power setting please refer to operational description.

2.9. Applied Standards

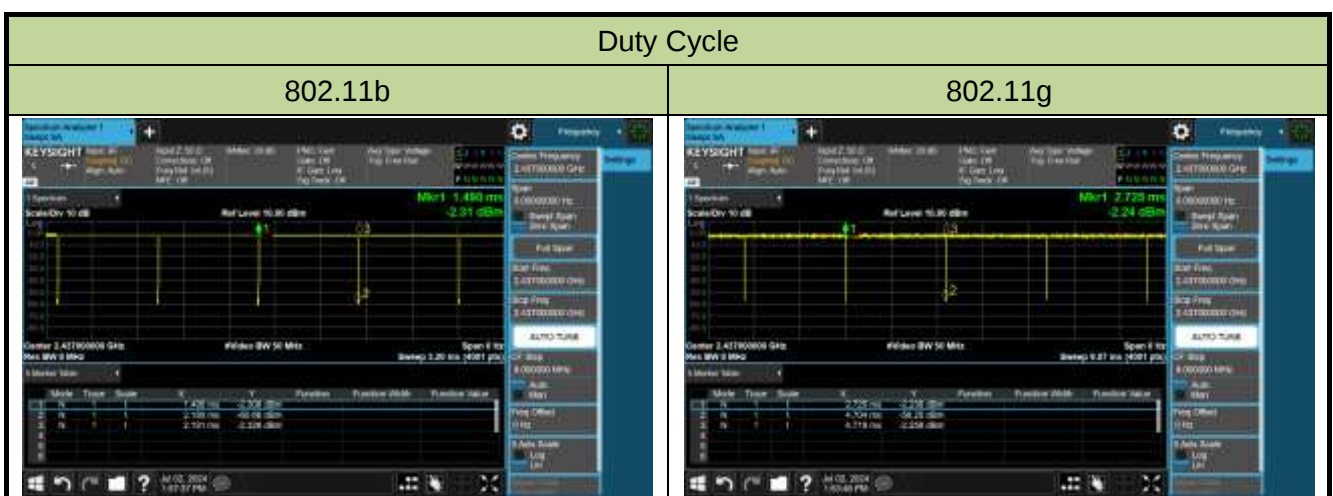
According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

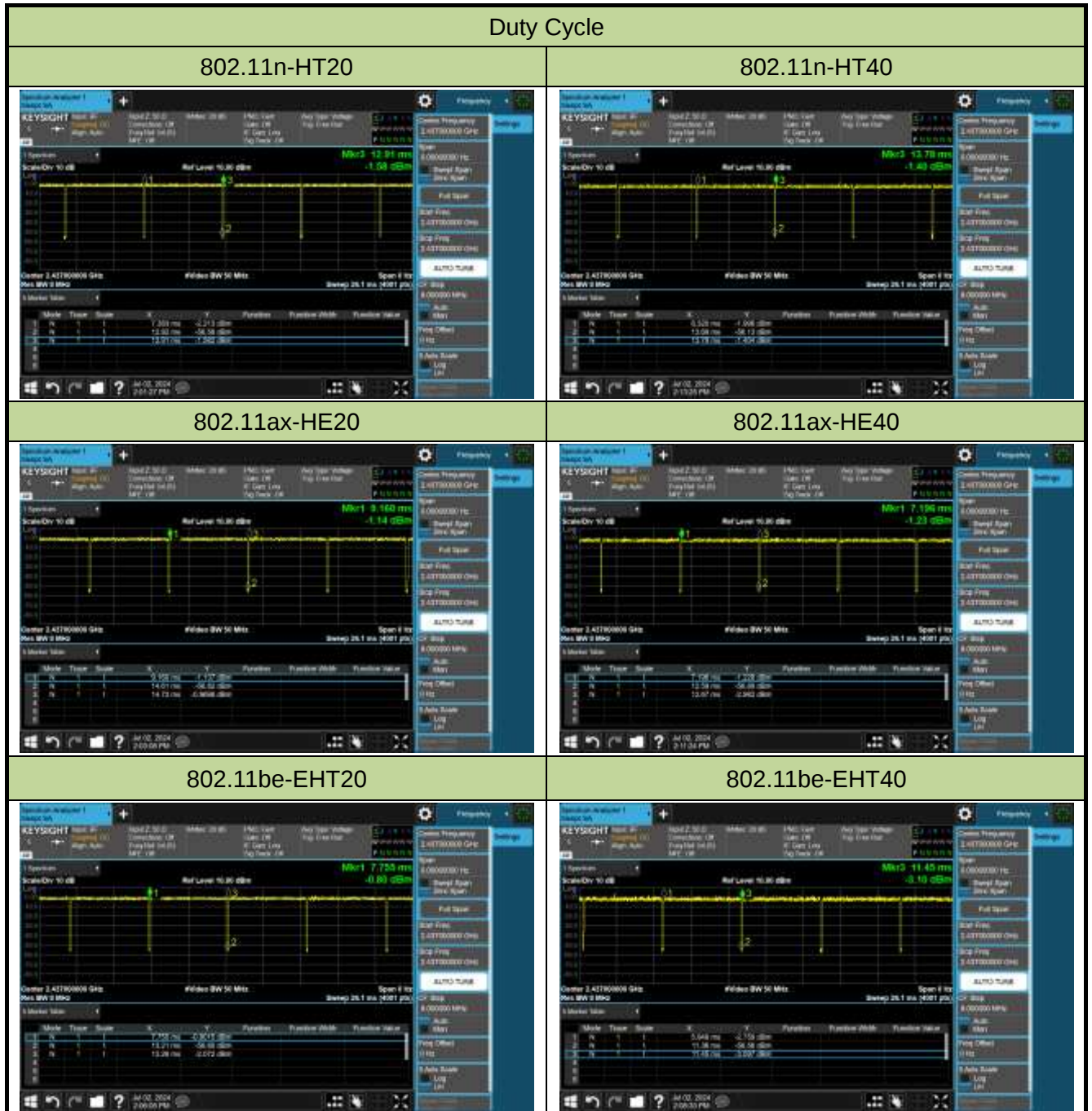
- FCC Part 15.247
- KDB 662911 D01v02r01
- ANSI C63.10-2013

2.10. Duty Cycle

2.4GHz WLAN (DTS) operation is possible in 20MHz and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11b	98.43%
802.11g	99.25%
802.11n-HT20	98.37%
802.11n-HT40	98.35%
802.11ax-HE20	98.02%
802.11ax-HE40	98.54%
802.11be-EHT20	99.09%
802.11be-EHT40	98.36%





2.11. Test Configuration

The device was tested per the guidance of ANSI C63.10-2013. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.12. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.13. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION of TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance was used in the measurement.

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 Ω /50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst-case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2025/3/5
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2025/4/21
EMI Test Receiver	R&S	ESR3	MRTTWA00045	1 year	2025/5/14

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2025/5/7
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2024/10/31
Broadband Hornantenna	RFSPIN	DRH18-E	MRTTWA00087	1 year	2025/5/20
Broadband Preamplifier	EMC Instruments corporation	EMC118A45SE	MRTTWA00088	1 year	2025/5/14
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2025/3/26
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2025/3/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2025/3/5
Signal Analyzer	R&S	FSVA3044	MRTTWA00092	1 year	2025/6/20
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00034	1 year	2025/6/25
Cable	HUBERSUHNER	EMC105-NM-NM-3000	MRTTWE00035	1 year	2025/6/25
Temperature/Humidity Meter	TFA	35.1083	MRTTWA00050	1 year	2025/6/2

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2025/4/16
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2024/10/17
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2025/8/12
Attenuator	WTI	218FS-20	MRTTWE00026	1 year	2024/11/1
Attenuator	WTI	218FS-10	MRTTWE00027	1 year	2025/6/13
Attenuator	WTI	218FS-06	MRTTWE00028	1 year	2025/6/13
Temperature & Humidity Chamber	TEN BILLION	TTH-B3UP	MRTTWA00036	1 year	2025/6/6
DIVA PLUS Funk-Wetterstation	TFA	35.1083	MRTTWA00050	1 year	2025/6/2

Software	Version	Function
e3	9.160520a	EMI Test Software

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 150kHz~30MHz: $\pm 2.53\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz ~ 1GHz: $\pm 4.25\text{dB}$ 1GHz ~ 40GHz: $\pm 4.45\text{dB}$
Conducted Power (Carrier Power / Power Density)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 0.84\text{dB}$
Conducted Spurious Emission
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 2.65\text{ dB}$
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 3.3\%$
Temp. / Humidity
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): $\pm 0.82^\circ\text{C} / \pm 3\%$

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	6dB Bandwidth	$\geq 500\text{kHz}$	Conducted	Pass	Section 7.2
15.247(b)(3)	Output Power	$\leq 30\text{dBm}$		Pass	Section 7.3
15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$		Pass	Section 7.4
15.247(d)	Band Edge / Out-of-Band Emissions	$\geq 30\text{dBc}$ (Average)		Pass	Section 7.5
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.6 & 7.7
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 7.8

Notes:

- Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

7.2. 6dB Bandwidth Measurement

7.2.1. Test Limit

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

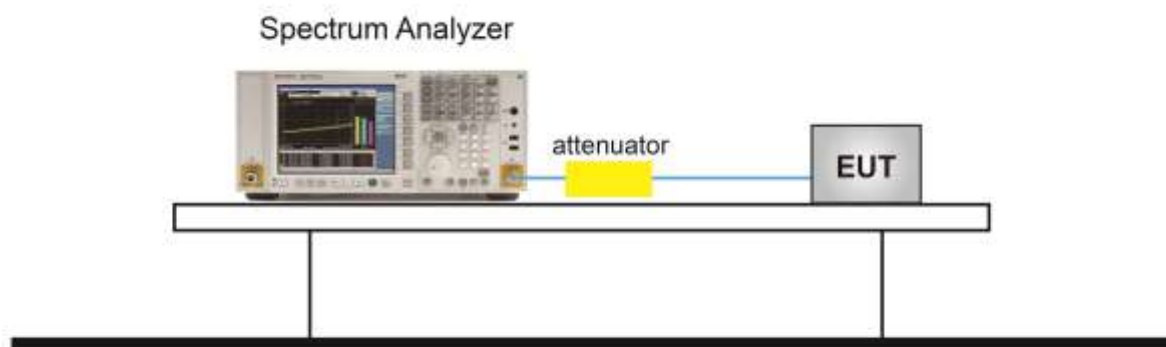
7.2.2. Test Procedure used

ANSI C63.10 - 2013 Section 11.8

7.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

7.2.4. Test Setup



7.2.5. Test Result

Product	BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router	Temperature	25°C
Test Engineer	Owen	Relative Humidity	54%
Test Site	SR6	Test Date	2024/7/16~2024/7/28

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Horizontal Antenna - Ant 1						
802.11b	1Mbps	01	2412	7.814	≥ 0.5	Pass
802.11b	1Mbps	06	2437	8.519	≥ 0.5	Pass
802.11b	1Mbps	11	2462	6.575	≥ 0.5	Pass
802.11g	6Mbps	01	2412	15.090	≥ 0.5	Pass
802.11g	6Mbps	06	2437	14.960	≥ 0.5	Pass
802.11g	6Mbps	11	2462	14.970	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	14.990	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	15.060	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	14.960	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	28.800	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	30.010	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	34.460	≥ 0.5	Pass
802.11ax-HE20	MCS0	01	2412	14.990	≥ 0.5	Pass
802.11ax-HE20	MCS0	06	2437	15.060	≥ 0.5	Pass
802.11ax-HE20	MCS0	11	2462	15.040	≥ 0.5	Pass
802.11ax-HE40	MCS0	03	2422	29.980	≥ 0.5	Pass
802.11ax-HE40	MCS0	06	2437	26.280	≥ 0.5	Pass
802.11ax-HE40	MCS0	09	2452	36.290	≥ 0.5	Pass
802.11be-EHT20	MCS0	01	2412	16.700	≥ 0.5	Pass
802.11be-EHT20	MCS0	06	2437	13.800	≥ 0.5	Pass
802.11be-EHT20	MCS0	11	2462	14.090	≥ 0.5	Pass
802.11be-EHT40	MCS0	03	2422	33.920	≥ 0.5	Pass
802.11be-EHT40	MCS0	06	2437	32.580	≥ 0.5	Pass
802.11be-EHT40	MCS0	09	2452	35.100	≥ 0.5	Pass

802.11b 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11g 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11n-HT20 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11n-HT40 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11ax-HE20 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11be-EHT20 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11be-EHT40 6dB Bandwidth - Horizontal Antenna Ant 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Vertical Antenna - Ant 1						
802.11b	1Mbps	01	2412	7.126	≥ 0.5	Pass
802.11b	1Mbps	06	2437	7.844	≥ 0.5	Pass
802.11b	1Mbps	11	2462	8.535	≥ 0.5	Pass
802.11g	6Mbps	01	2412	15.07	≥ 0.5	Pass
802.11g	6Mbps	06	2437	15.10	≥ 0.5	Pass
802.11g	6Mbps	11	2462	15.09	≥ 0.5	Pass
802.11n-HT20	MCS0	01	2412	15.43	≥ 0.5	Pass
802.11n-HT20	MCS0	06	2437	16.33	≥ 0.5	Pass
802.11n-HT20	MCS0	11	2462	15.07	≥ 0.5	Pass
802.11n-HT40	MCS0	03	2422	26.89	≥ 0.5	Pass
802.11n-HT40	MCS0	06	2437	32.57	≥ 0.5	Pass
802.11n-HT40	MCS0	09	2452	35.65	≥ 0.5	Pass
802.11ax-HE20	MCS0	01	2412	18.14	≥ 0.5	Pass
802.11ax-HE20	MCS0	06	2437	15.98	≥ 0.5	Pass
802.11ax-HE20	MCS0	11	2462	15.08	≥ 0.5	Pass
802.11ax-HE40	MCS0	03	2422	31.36	≥ 0.5	Pass
802.11ax-HE40	MCS0	06	2437	35.28	≥ 0.5	Pass
802.11ax-HE40	MCS0	09	2452	36.25	≥ 0.5	Pass
802.11be-EHT20	MCS0	01	2412	17.96	≥ 0.5	Pass
802.11be-EHT20	MCS0	06	2437	14.22	≥ 0.5	Pass
802.11be-EHT20	MCS0	11	2462	15.08	≥ 0.5	Pass
802.11be-EHT40	MCS0	03	2422	34.99	≥ 0.5	Pass
802.11be-EHT40	MCS0	06	2437	35.83	≥ 0.5	Pass
802.11be-EHT40	MCS0	09	2452	33.90	≥ 0.5	Pass

802.11b 6dB Bandwidth - Vertical Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11g 6dB Bandwidth - Vertical Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11n-HT20 6dB Bandwidth - Vertical Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11n-HT40 6dB Bandwidth - Vertical Antenna Ant 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11ax-HE20 6dB Bandwidth - Vertical Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 6dB Bandwidth - Vertical Antenna Ant 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11be-EHT20 6dB Bandwidth - Vertical Antenna Ant 1

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11be-EHT40 6dB Bandwidth - Vertical Antenna Ant 1

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



7.3. Output Power Measurement

7.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(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 FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3.2. Test Procedure Used

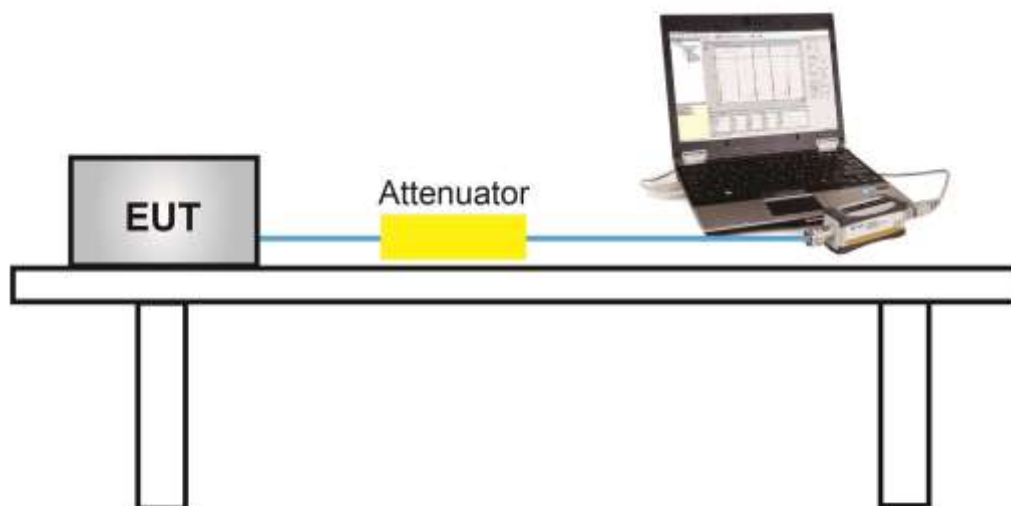
ANSI C63.10 - 2013 Section 11.9.2.3.2

7.3.3. Test Setting

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

7.3.4. Test Setup



7.3.5. Test Result

Product	BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router	Temperature	25°C
Test Engineer	Owen	Relative Humidity	54%
Test Site	SR6	Test Date	2024/7/16~2024/7/28

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
Horizontal Antenna - CDD Mode								
802.11b	1Mbps	01	2412	24.29	24.50	27.41	≤ 30.00	Pass
802.11b	1Mbps	06	2437	24.04	24.29	27.18	≤ 30.00	Pass
802.11b	1Mbps	11	2462	23.86	24.48	27.19	≤ 30.00	Pass
802.11g	6Mbps	01	2412	21.44	21.52	24.49	≤ 30.00	Pass
802.11g	6Mbps	06	2437	24.28	24.33	27.32	≤ 30.00	Pass
802.11g	6Mbps	11	2462	21.35	21.80	24.59	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	21.32	21.33	24.34	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	24.00	24.05	27.04	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	20.88	21.51	24.22	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	21.80	21.75	24.79	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	22.35	22.49	25.43	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	21.47	21.81	24.65	≤ 30.00	Pass
802.11ax-HE20	MCS0	01	2412	21.20	21.37	24.30	≤ 30.00	Pass
802.11ax-HE20	MCS0	06	2437	23.98	24.02	27.01	≤ 30.00	Pass
802.11ax-HE20	MCS0	11	2462	20.84	21.47	24.18	≤ 30.00	Pass
802.11ax-HE40	MCS0	03	2422	21.36	21.49	24.44	≤ 30.00	Pass
802.11ax-HE40	MCS0	06	2437	22.41	22.81	25.62	≤ 30.00	Pass
802.11ax-HE40	MCS0	09	2452	21.53	21.84	24.70	≤ 30.00	Pass
802.11be-EHT20	MCS0	01	2412	21.36	21.43	24.41	≤ 30.00	Pass
802.11be-EHT20	MCS0	06	2437	24.02	24.04	27.04	≤ 30.00	Pass
802.11be-EHT20	MCS0	11	2462	21.02	21.44	24.25	≤ 30.00	Pass
802.11be-EHT40	MCS0	03	2422	21.29	21.57	24.44	≤ 30.00	Pass
802.11be-EHT40	MCS0	06	2437	22.16	22.42	25.30	≤ 30.00	Pass
802.11be-EHT40	MCS0	09	2452	21.35	21.48	24.43	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
Horizontal Antenna - Beamforming Mode								
802.11n-HT20	MCS0	01	2412	21.32	21.33	24.34	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	24.00	24.05	27.04	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	20.88	21.51	24.22	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	21.80	21.75	24.79	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	22.35	22.49	25.43	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	21.47	21.81	24.65	≤ 30.00	Pass
802.11ax-HE20	MCS0	01	2412	21.20	21.37	24.30	≤ 30.00	Pass
802.11ax-HE20	MCS0	06	2437	24.03	24.06	27.06	≤ 30.00	Pass
802.11ax-HE20	MCS0	11	2462	20.84	21.47	24.18	≤ 30.00	Pass
802.11ax-HE40	MCS0	03	2422	21.36	21.49	24.44	≤ 30.00	Pass
802.11ax-HE40	MCS0	06	2437	22.41	22.81	25.62	≤ 30.00	Pass
802.11ax-HE40	MCS0	09	2452	21.53	21.84	24.70	≤ 30.00	Pass
802.11be-EHT20	MCS0	01	2412	21.36	21.43	24.41	≤ 30.00	Pass
802.11be-EHT20	MCS0	06	2437	24.10	24.26	27.19	≤ 30.00	Pass
802.11be-EHT20	MCS0	11	2462	21.02	21.19	24.12	≤ 30.00	Pass
802.11be-EHT40	MCS0	03	2422	21.29	21.57	24.44	≤ 30.00	Pass
802.11be-EHT40	MCS0	06	2437	22.16	22.42	25.30	≤ 30.00	Pass
802.11be-EHT40	MCS0	09	2452	21.35	21.48	24.43	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
Vertical Antenna - CDD Mode								
802.11b	1Mbps	01	2412	24.15	24.50	27.34	≤ 30.00	Pass
802.11b	1Mbps	06	2437	23.68	24.40	27.07	≤ 30.00	Pass
802.11b	1Mbps	11	2462	23.66	25.05	27.42	≤ 30.00	Pass
802.11g	6Mbps	01	2412	21.27	21.63	24.46	≤ 30.00	Pass
802.11g	6Mbps	06	2437	23.87	24.43	27.17	≤ 30.00	Pass
802.11g	6Mbps	10	2457	20.62	22.19	24.49	≤ 30.00	Pass
802.11g	6Mbps	11	2462	20.39	21.77	24.14	≤ 30.00	Pass
802.11n-HT20	MCS0	01	2412	19.59	20.48	23.07	≤ 30.00	Pass
802.11n-HT20	MCS0	02	2417	21.90	22.49	25.22	≤ 30.00	Pass
802.11n-HT20	MCS0	06	2437	23.75	24.49	27.15	≤ 30.00	Pass
802.11n-HT20	MCS0	10	2457	20.94	22.45	24.77	≤ 30.00	Pass
802.11n-HT20	MCS0	11	2462	19.63	21.37	23.60	≤ 30.00	Pass
802.11n-HT40	MCS0	03	2422	20.17	20.92	23.57	≤ 30.00	Pass
802.11n-HT40	MCS0	06	2437	21.20	22.01	24.63	≤ 30.00	Pass
802.11n-HT40	MCS0	09	2452	19.64	20.94	23.35	≤ 30.00	Pass
802.11ax-HE20	MCS0	01	2412	20.54	21.24	23.91	≤ 30.00	Pass
802.11ax-HE20	MCS0	06	2437	22.62	23.61	26.15	≤ 30.00	Pass
802.11ax-HE20	MCS0	10	2457	21.29	22.30	24.83	≤ 30.00	Pass
802.11ax-HE20	MCS0	11	2462	19.07	20.60	22.91	≤ 30.00	Pass
802.11ax-HE40	MCS0	03	2422	20.29	21.06	23.70	≤ 30.00	Pass
802.11ax-HE40	MCS0	06	2437	21.33	21.91	24.64	≤ 30.00	Pass
802.11ax-HE40	MCS0	09	2452	20.71	21.85	24.33	≤ 30.00	Pass
802.11be-EHT20	MCS0	01	2412	20.69	21.16	23.94	≤ 30.00	Pass
802.11be-EHT20	MCS0	06	2437	22.75	23.70	26.26	≤ 30.00	Pass
802.11be-EHT20	MCS0	11	2462	19.86	21.14	23.56	≤ 30.00	Pass
802.11be-EHT40	MCS0	03	2422	20.00	20.87	23.47	≤ 30.00	Pass
802.11be-EHT40	MCS0	06	2437	21.45	22.53	25.03	≤ 30.00	Pass
802.11be-EHT40	MCS0	09	2452	20.55	21.68	24.16	≤ 30.00	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Limit (dBm)	Result
Vertical Antenna - Beamforming Mode								
802.11n-HT20	MCS0	01	2412	19.59	20.48	23.07	≤ 29.79	Pass
802.11n-HT20	MCS0	02	2417	21.90	22.49	25.22	≤ 29.79	Pass
802.11n-HT20	MCS0	06	2437	23.75	24.49	27.15	≤ 29.79	Pass
802.11n-HT20	MCS0	10	2457	20.94	22.45	24.77	≤ 29.79	Pass
802.11n-HT20	MCS0	11	2462	19.63	21.37	23.60	≤ 29.79	Pass
802.11n-HT40	MCS0	03	2422	20.17	20.92	23.57	≤ 29.79	Pass
802.11n-HT40	MCS0	06	2437	21.20	22.01	24.63	≤ 29.79	Pass
802.11n-HT40	MCS0	09	2452	19.64	20.94	23.35	≤ 29.79	Pass
802.11ax-HE20	MCS0	01	2412	20.54	21.24	23.91	≤ 29.79	Pass
802.11ax-HE20	MCS0	06	2437	22.62	23.61	26.15	≤ 29.79	Pass
802.11ax-HE20	MCS0	10	2457	21.29	22.30	24.83	≤ 29.79	Pass
802.11ax-HE20	MCS0	11	2462	19.07	20.60	22.91	≤ 29.79	Pass
802.11ax-HE40	MCS0	03	2422	20.29	21.06	23.70	≤ 29.79	Pass
802.11ax-HE40	MCS0	06	2437	21.33	21.91	24.64	≤ 29.79	Pass
802.11ax-HE40	MCS0	09	2452	20.71	21.85	24.33	≤ 29.79	Pass
802.11be-EHT20	MCS0	01	2412	20.69	21.16	23.94	≤ 29.79	Pass
802.11be-EHT20	MCS0	06	2437	22.75	23.70	26.26	≤ 29.79	Pass
802.11be-EHT20	MCS0	11	2462	19.86	21.14	23.56	≤ 29.79	Pass
802.11be-EHT40	MCS0	03	2422	20.00	20.87	23.47	≤ 29.79	Pass
802.11be-EHT40	MCS0	06	2437	21.45	22.53	25.03	≤ 29.79	Pass
802.11be-EHT40	MCS0	09	2452	20.55	21.68	24.16	≤ 29.79	Pass

Note: Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

7.4. Power Spectral Density Measurement

7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

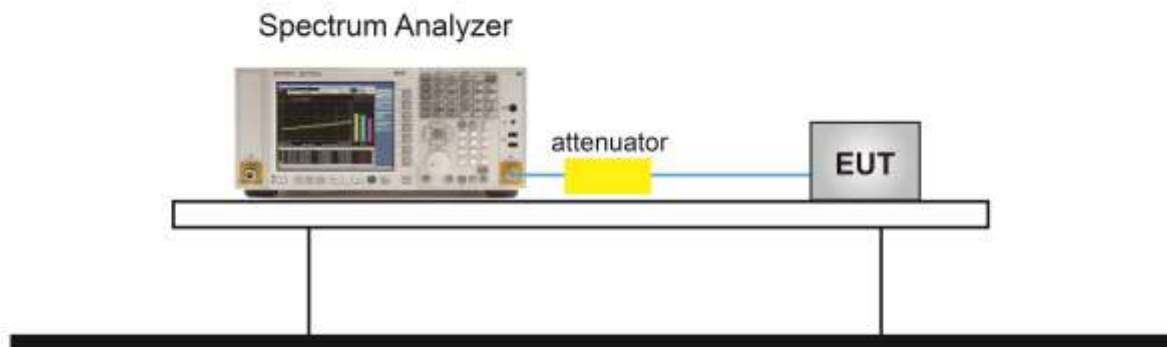
7.4.2. Test Procedure Used

ANSI C63.10 - 2013 Section 11.10.5

7.4.3. Test Setting

1. Measure the duty cycle (x) of the transmitter output signal.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. RBW = 10 kHz.
5. VBW = 30 kHz.
6. Detector = RMS.
7. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
8. Sweep time = auto couple.
9. Don't use sweep triggering. Allow sweep to "free run".
10. Employ trace averaging (RMS) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add $10 \log (1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

7.4.4. Test Setup



7.4.5. Test Result

Product	BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router	Temperature	25°C
Test Engineer	Owen	Relative Humidity	54%
Test Site	SR6	Test Date	2024/7/16~2024/7/28

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/10kHz)		Duty Cycle (%)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Result
				Ant 0	Ant 1				
Horizontal Antenna									
802.11b	1Mbps	01	2412	0.283	-0.341	98.43%	3.061	≤ 8.00	Pass
802.11b	1Mbps	06	2437	-0.806	-0.647	98.43%	2.353	≤ 8.00	Pass
802.11b	1Mbps	11	2462	0.101	-0.260	98.43%	3.003	≤ 8.00	Pass
802.11g	6Mbps	01	2412	-5.597	-5.302	99.25%	-2.404	≤ 8.00	Pass
802.11g	6Mbps	06	2437	-2.094	-1.765	99.25%	1.117	≤ 8.00	Pass
802.11g	6Mbps	11	2462	-5.164	-4.318	99.25%	-1.677	≤ 8.00	Pass
802.11n-HT20	MCS0	01	2412	-5.847	-5.990	98.37%	-2.836	≤ 8.00	Pass
802.11n-HT20	MCS0	06	2437	-3.192	-2.582	98.37%	0.205	≤ 8.00	Pass
802.11n-HT20	MCS0	11	2462	-6.125	-5.402	98.37%	-2.667	≤ 8.00	Pass
802.11n-HT40	MCS0	03	2422	-8.123	-7.847	98.35%	-4.900	≤ 8.00	Pass
802.11n-HT40	MCS0	06	2437	-7.723	-7.976	98.35%	-4.765	≤ 8.00	Pass
802.11n-HT40	MCS0	09	2452	-8.552	-8.030	98.35%	-5.201	≤ 8.00	Pass
802.11ax-HE20	MCS0	01	2412	-6.236	-6.090	98.02%	-3.065	≤ 8.00	Pass
802.11ax-HE20	MCS0	06	2437	-3.731	-3.083	98.02%	-0.298	≤ 8.00	Pass
802.11ax-HE20	MCS0	11	2462	-6.732	-7.428	98.02%	-3.969	≤ 8.00	Pass
802.11ax-HE40	MCS0	03	2422	-8.894	-9.156	98.54%	-5.949	≤ 8.00	Pass
802.11ax-HE40	MCS0	06	2437	-8.309	-8.371	98.54%	-5.266	≤ 8.00	Pass
802.11ax-HE40	MCS0	09	2452	-8.610	-7.805	98.54%	-5.115	≤ 8.00	Pass
802.11be-EHT20	MCS0	01	2412	-6.174	-6.350	99.09%	-3.211	≤ 8.00	Pass
802.11be-EHT20	MCS0	06	2437	-3.759	-3.410	99.09%	-0.531	≤ 8.00	Pass
802.11be-EHT20	MCS0	11	2462	-6.853	-5.679	99.09%	-3.176	≤ 8.00	Pass
802.11be-EHT40	MCS0	03	2422	-9.197	-9.250	98.36%	-6.141	≤ 8.00	Pass
802.11be-EHT40	MCS0	06	2437	-8.220	-8.314	98.36%	-5.185	≤ 8.00	Pass
802.11be-EHT40	MCS0	09	2452	-9.071	-9.422	98.36%	-6.161	≤ 8.00	Pass

Note: Total AVGPSPD = $10^{\log \{10^{(\text{Ant 0 AVGPSPD}/10)} + 10^{(\text{Ant 1 AVGPSPD}/10)}\}} + 10^{\log (1/\text{Duty Cycle})}$.

802.11b AVGPSPD - Horizontal Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11g AVGPSPD - Horizontal Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

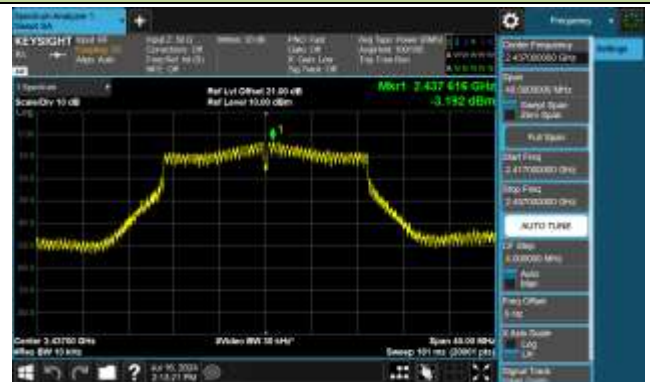


802.11n-HT20 AVGPSPD - Horizontal Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11n-HT40 AVGPSPD - Horizontal Antenna Ant 0 - CDD Mode

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11ax-HE20 AVGPSD - Horizontal Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 AVGPSD - Horizontal Antenna Ant 0 - CDD Mode

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

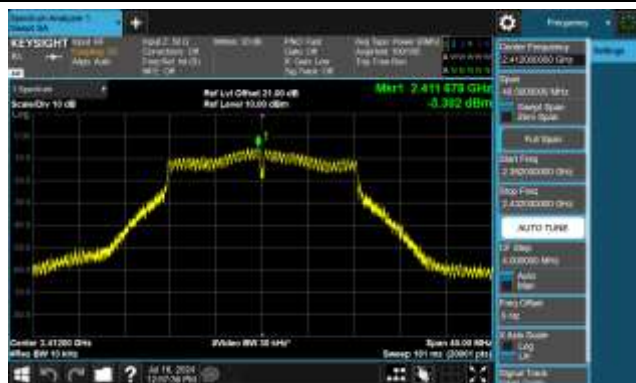


Channel 11 (2462MHz)

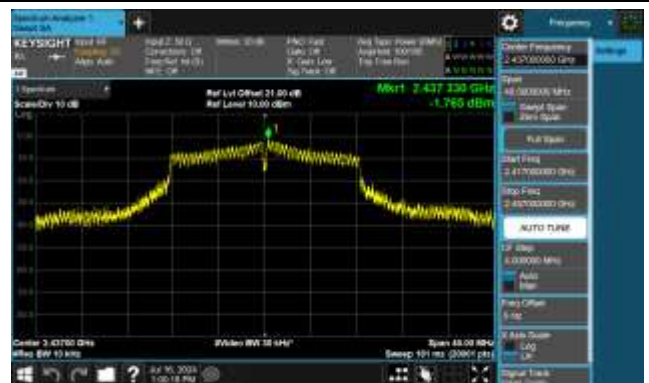


802.11g AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

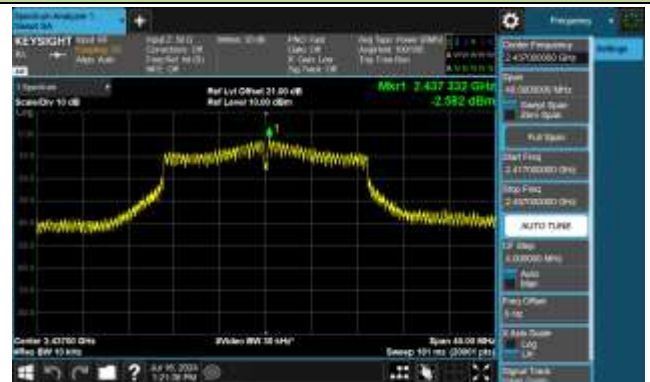


802.11n-HT20 AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

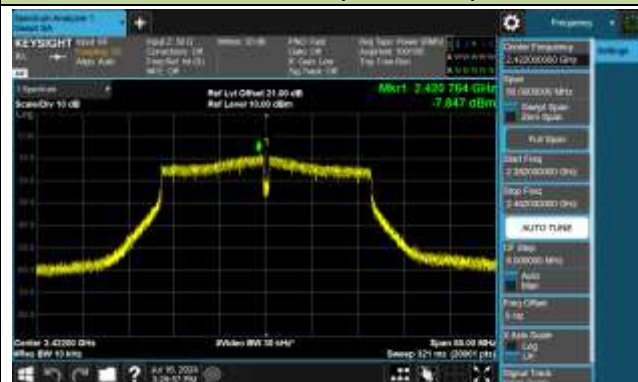


Channel 11 (2462MHz)

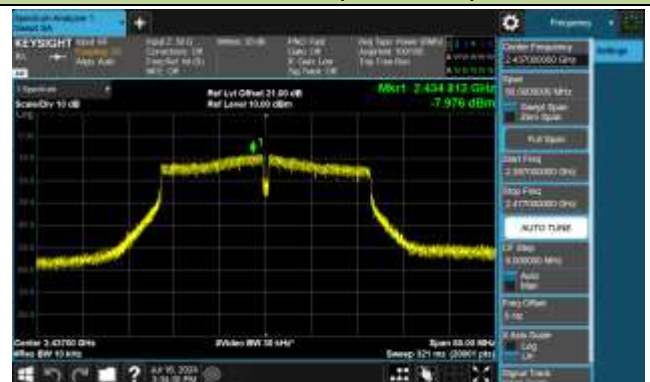


802.11n-HT40 AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

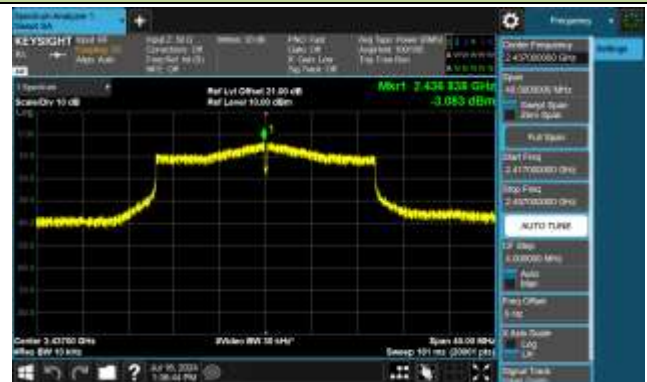


802.11ax-HE20 AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

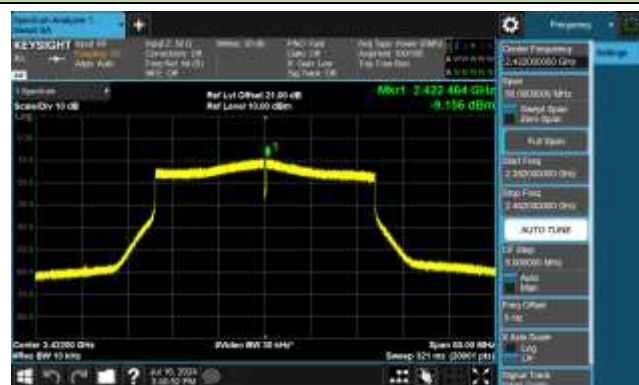


Channel 11 (2462MHz)

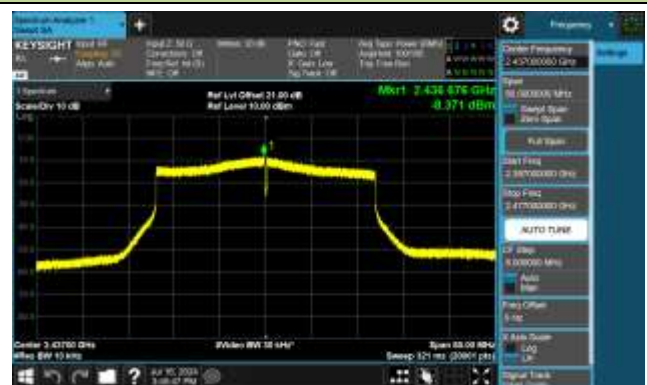


802.11ax-HE40 AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 03 (2422MHz)



Channel 06 (2437MHz)

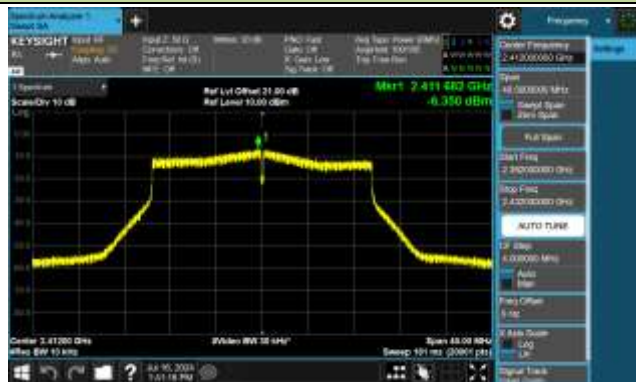


Channel 09 (2452MHz)

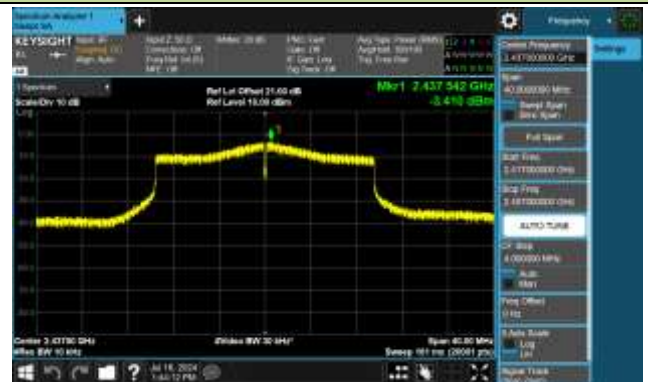


802.11be-EHT20 AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

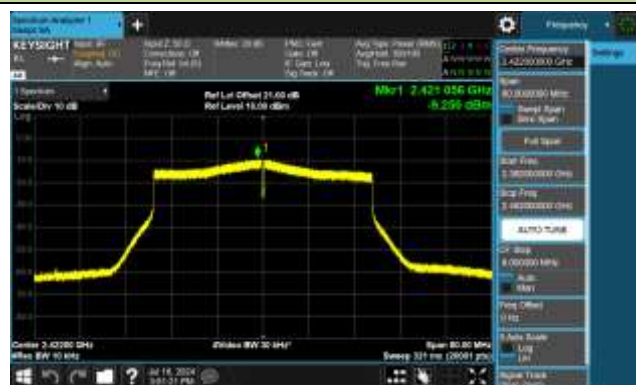


Channel 11 (2462MHz)

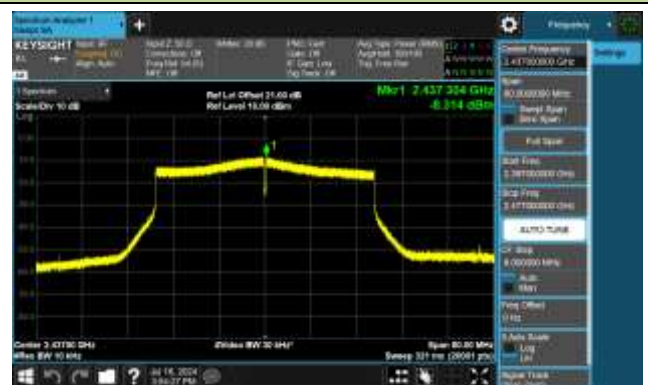


802.11be-EHT40 AVGPSPD - Horizontal Antenna Ant 1 - CDD Mode

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



Product	BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router	Temperature	25°C
Test Engineer	Owen	Relative Humidity	54%
Test Site	SR6	Test Date	2024/7/16~2024/7/28

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	PSD (dBm/10kHz)		Duty Cycle (%)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Result
				Ant 0	Ant 1				
Vertical Antenna									
802.11b	1Mbps	01	2412	0.529	-0.044	98.72%	3.318	≤ 7.79	Pass
802.11b	1Mbps	06	2437	-1.182	-0.675	98.72%	2.145	≤ 7.79	Pass
802.11b	1Mbps	11	2462	-1.679	1.132	98.72%	3.016	≤ 7.79	Pass
802.11g	6Mbps	01	2412	-4.910	-4.745	99.15%	-1.779	≤ 7.79	Pass
802.11g	6Mbps	06	2437	-2.626	-2.406	99.15%	0.533	≤ 7.79	Pass
802.11g	6Mbps	11	2462	-5.602	-4.513	99.15%	-1.976	≤ 7.79	Pass
802.11n-HT20	MCS0	01	2412	-7.173	-6.607	98.19%	-3.791	≤ 7.79	Pass
802.11n-HT20	MCS0	06	2437	-3.049	-3.047	98.19%	0.042	≤ 7.79	Pass
802.11n-HT20	MCS0	11	2462	-7.031	-5.964	98.19%	-3.375	≤ 7.79	Pass
802.11n-HT40	MCS0	03	2422	-9.940	-9.120	98.18%	-6.421	≤ 7.79	Pass
802.11n-HT40	MCS0	06	2437	-8.549	-8.247	98.18%	-5.305	≤ 7.79	Pass
802.11n-HT40	MCS0	09	2452	-9.643	-9.441	98.18%	-6.451	≤ 7.79	Pass
802.11ax-HE20	MCS0	01	2412	-6.712	-6.309	98.19%	-3.416	≤ 7.79	Pass
802.11ax-HE20	MCS0	06	2437	-4.483	-4.193	98.19%	-1.246	≤ 7.79	Pass
802.11ax-HE20	MCS0	11	2462	-8.160	-7.548	98.19%	-4.754	≤ 7.79	Pass
802.11ax-HE40	MCS0	03	2422	-10.101	-9.709	98.91%	-6.843	≤ 7.79	Pass
802.11ax-HE40	MCS0	06	2437	-8.909	-7.797	98.91%	-5.260	≤ 7.79	Pass
802.11ax-HE40	MCS0	09	2452	-9.753	-8.107	98.91%	-5.795	≤ 7.79	Pass
802.11be-EHT20	MCS0	01	2412	-6.547	-6.071	98.55%	-3.229	≤ 7.79	Pass
802.11be-EHT20	MCS0	06	2437	-4.692	-3.019	98.55%	-0.702	≤ 7.79	Pass
802.11be-EHT20	MCS0	11	2462	-7.660	-6.885	98.55%	-4.182	≤ 7.79	Pass
802.11be-EHT40	MCS0	03	2422	-10.077	-9.311	98.73%	-6.611	≤ 7.79	Pass
802.11be-EHT40	MCS0	06	2437	-8.320	-7.984	98.73%	-5.083	≤ 7.79	Pass
802.11be-EHT40	MCS0	09	2452	-9.801	-9.105	98.73%	-6.373	≤ 7.79	Pass

Note 1: Total AVGPSPD = $10 \cdot \log \{10^{(\text{Ant 0 AVGPSPD}/10)} + 10^{(\text{Ant 1 AVGPSPD}/10)}\} + 10 \cdot \log (1/\text{Duty Cycle})$.

Note 2: PSD Limit (dBm/3kHz) = $8 - (6.21 - 6) = 7.79$ (dBm/3kHz)

802.11b AVGPSPD - Vertical Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

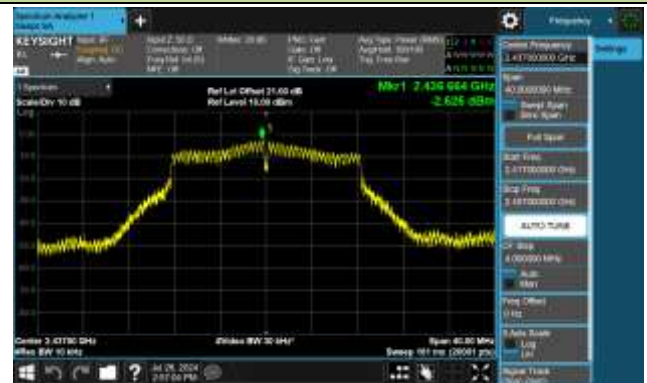


802.11g AVGPSPD - Vertical Antenna Ant 0 - CDD Mode

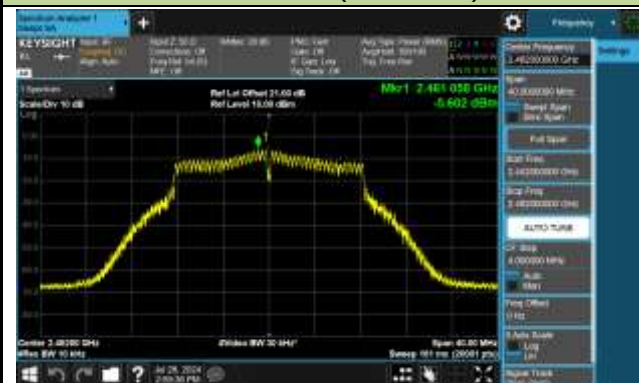
Channel 01 (2412MHz)



Channel 06 (2437MHz)

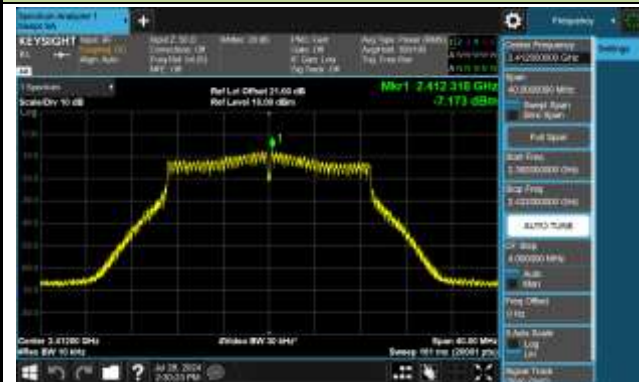


Channel 11 (2462MHz)

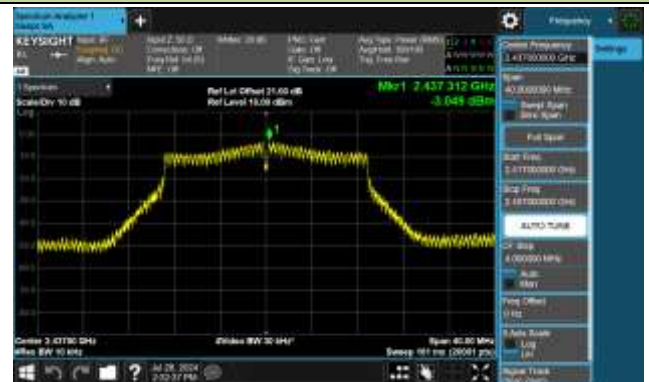


802.11n-HT20 AVGPSPD - Vertical Antenna Ant 0 - CDD Mode

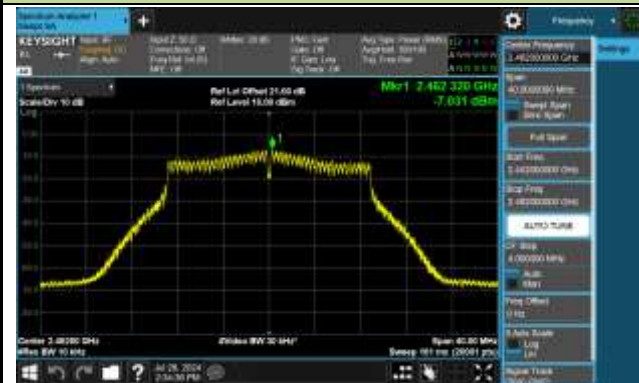
Channel 01 (2412MHz)



Channel 06 (2437MHz)

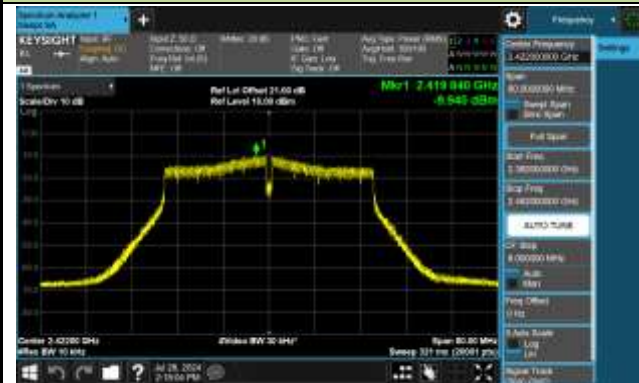


Channel 11 (2462MHz)

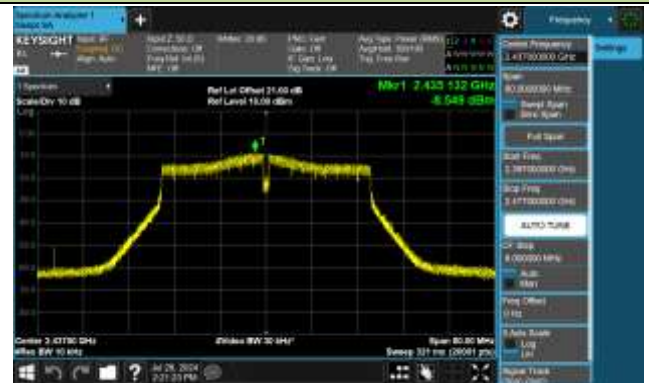


802.11n-HT40 AVGPSPD - Vertical Antenna Ant 0 - CDD Mode

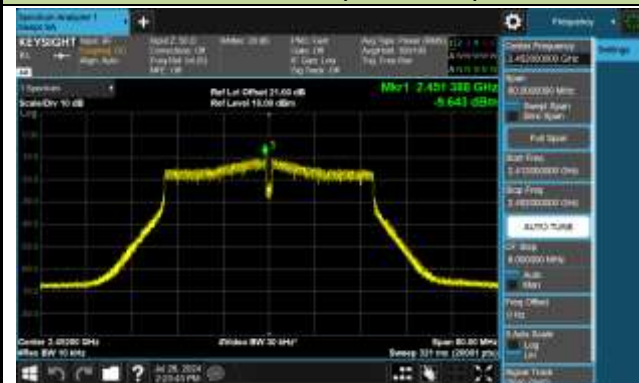
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

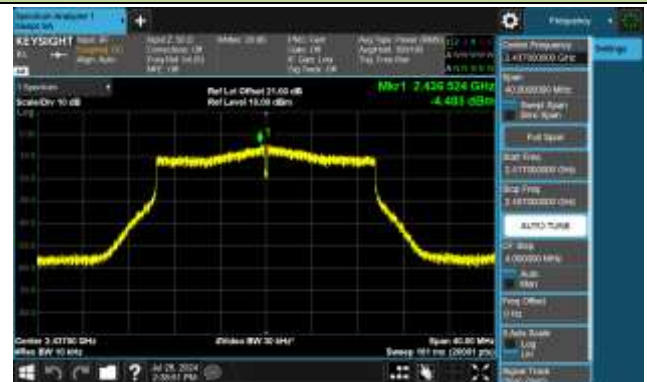


802.11ax-HE20 AVGPSPD - Vertical Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

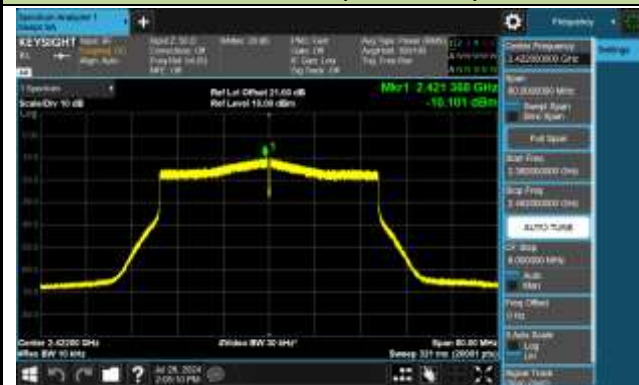


Channel 11 (2462MHz)

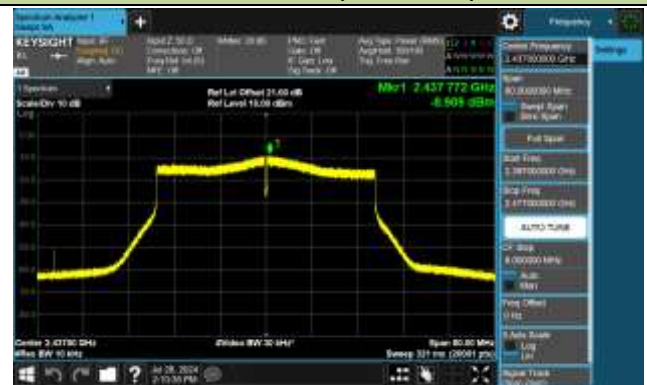


802.11ax-HE40 AVGPSPD - Vertical Antenna Ant 0 - CDD Mode

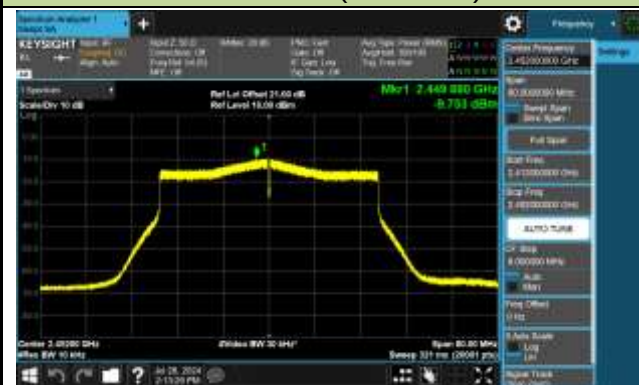
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

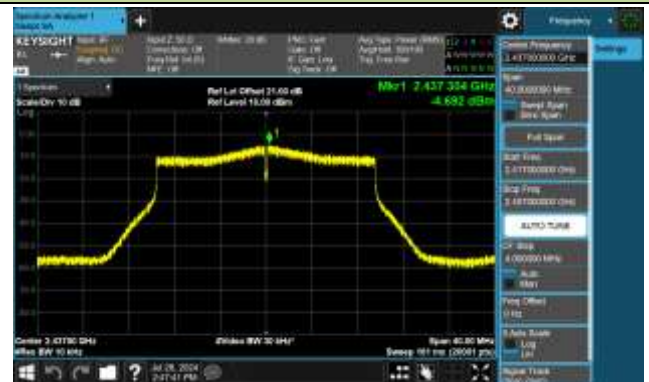


802.11be-EHT20 AVGPSD - Vertical Antenna Ant 0 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

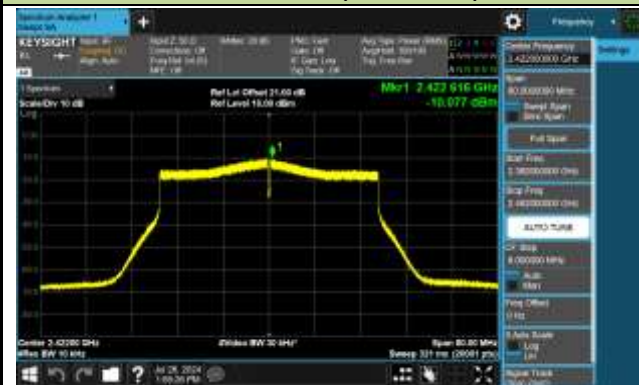


Channel 11 (2462MHz)

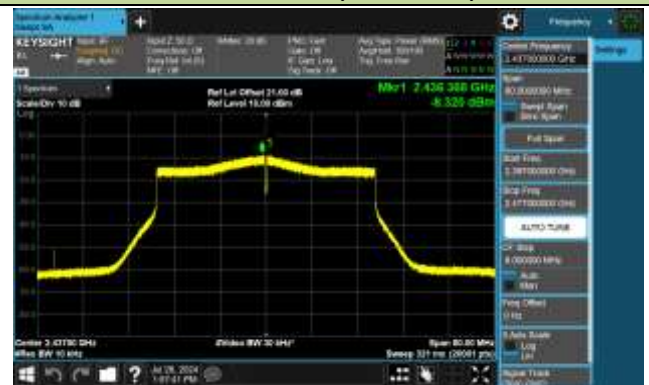


802.11be-EHT40 AVGPSD - Vertical Antenna Ant 0 - CDD Mode

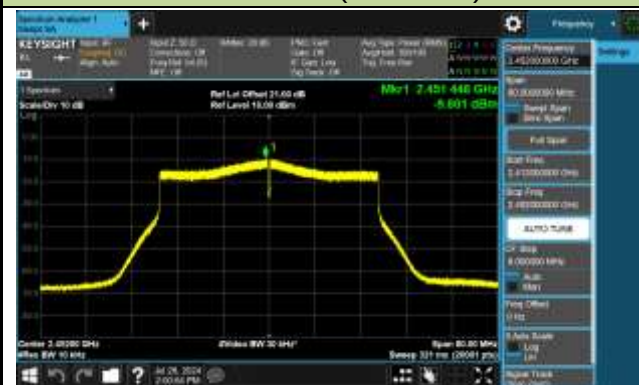
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



802.11b AVGPSPD - Vertical Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

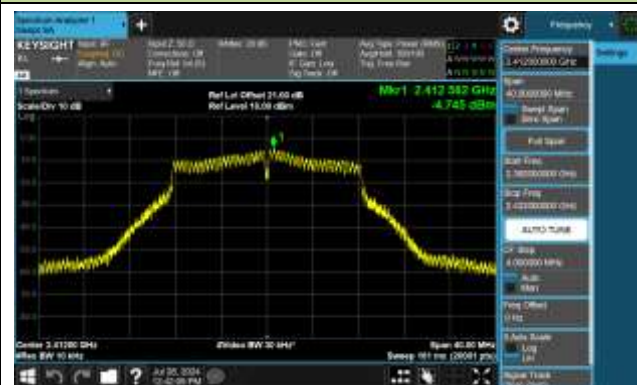


Channel 11 (2462MHz)

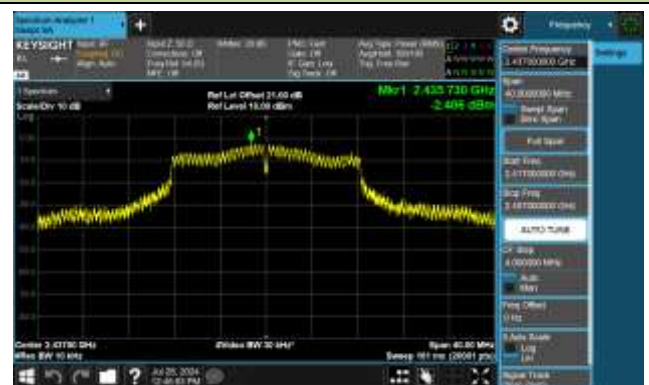


802.11g AVGPSPD - Vertical Antenna Ant 1 - CDD Mode

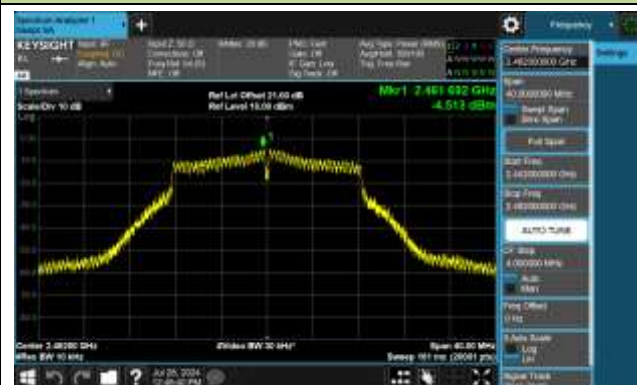
Channel 01 (2412MHz)



Channel 06 (2437MHz)

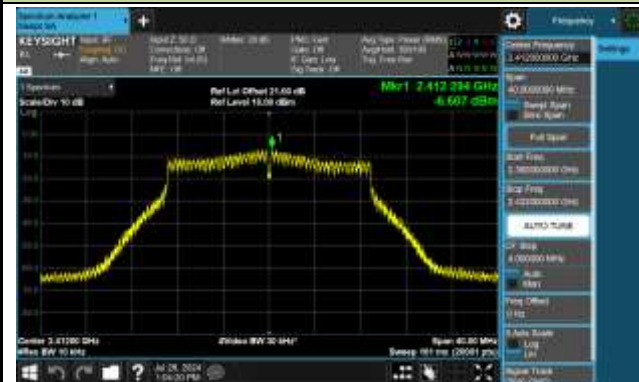


Channel 11 (2462MHz)

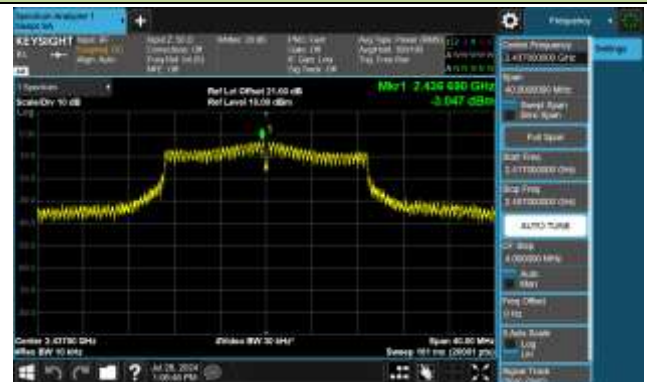


802.11n-HT20 AVGPSPD - Vertical Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

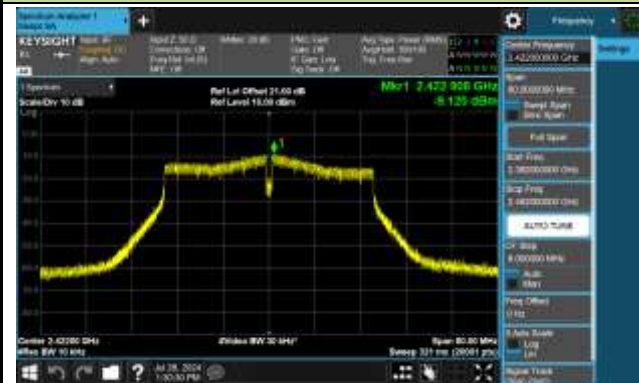


Channel 11 (2462MHz)

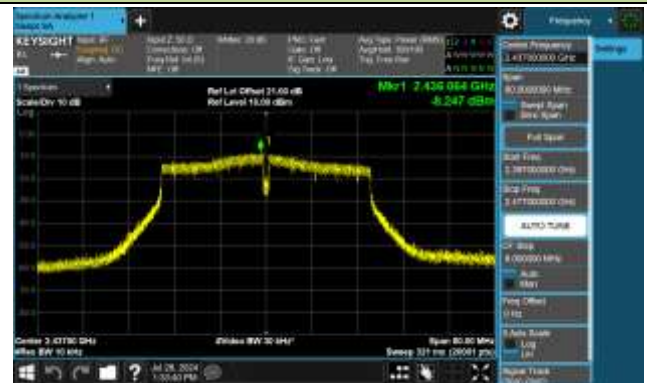


802.11n-HT40 AVGPSPD - Vertical Antenna Ant 1 - CDD Mode

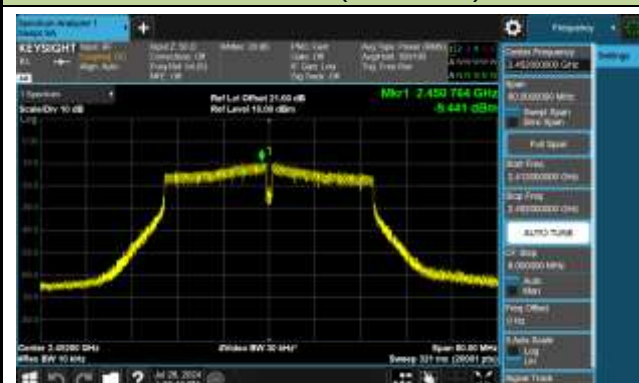
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

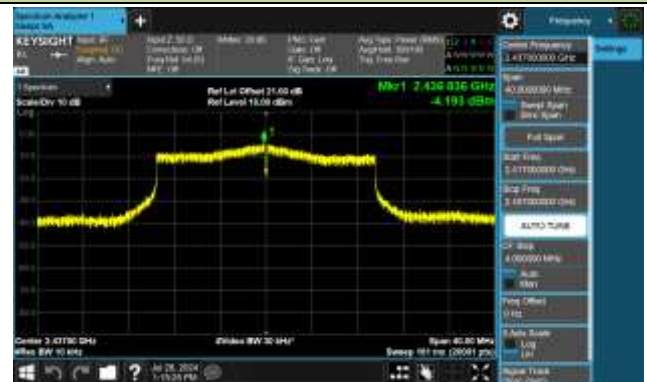


802.11ax-HE20 AVGPSD - Vertical Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

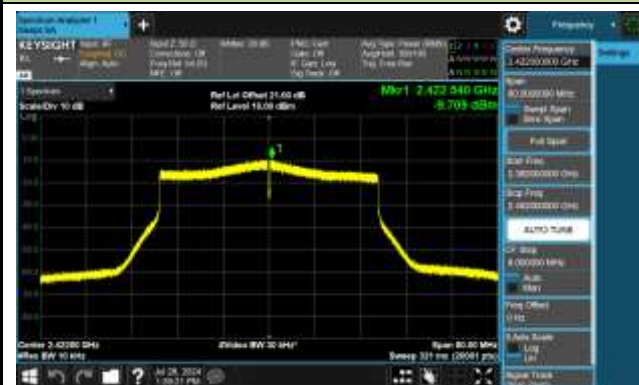


Channel 11 (2462MHz)

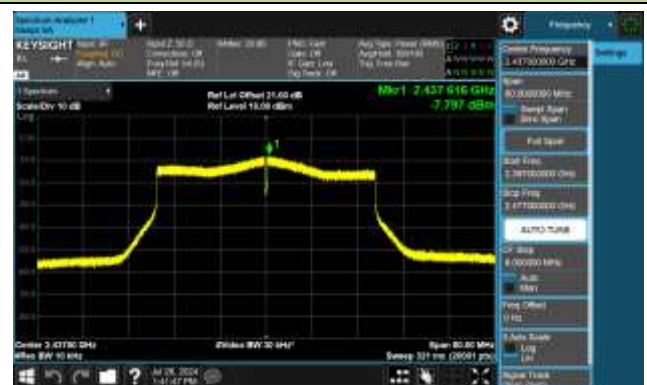


802.11ax-HE40 AVGPSD - Vertical Antenna Ant 1 - CDD Mode

Channel 03 (2422MHz)



Channel 06 (2437MHz)

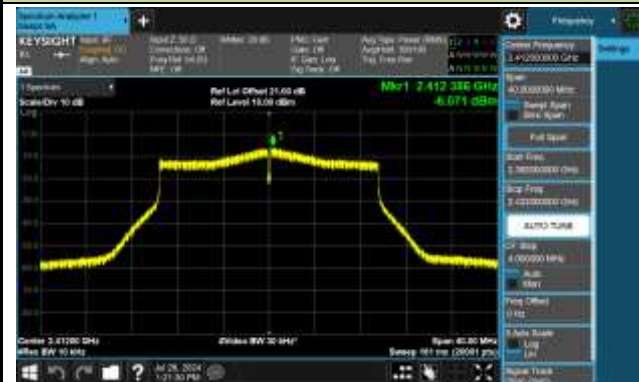


Channel 09 (2452MHz)

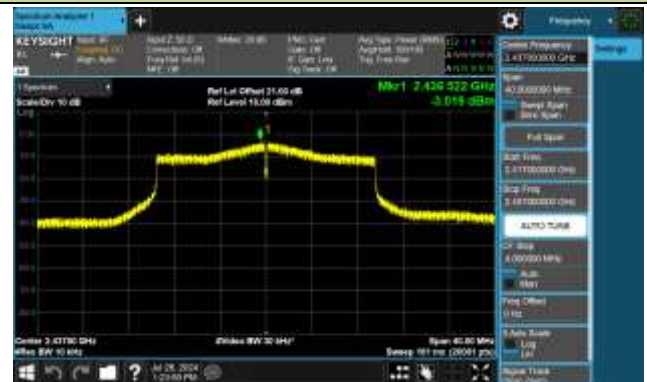


802.11be-EHT20 AVGPSPD - Vertical Antenna Ant 1 - CDD Mode

Channel 01 (2412MHz)



Channel 06 (2437MHz)

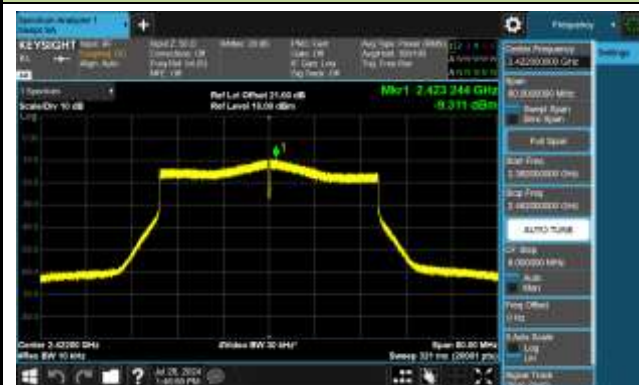


Channel 11 (2462MHz)

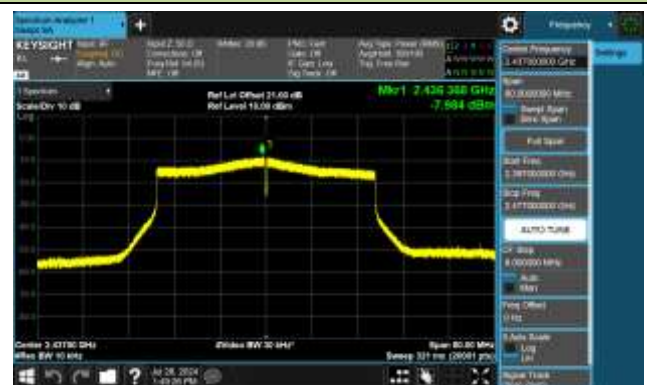


802.11be-EHT40 AVGPSPD - Vertical Antenna Ant 1 - CDD Mode

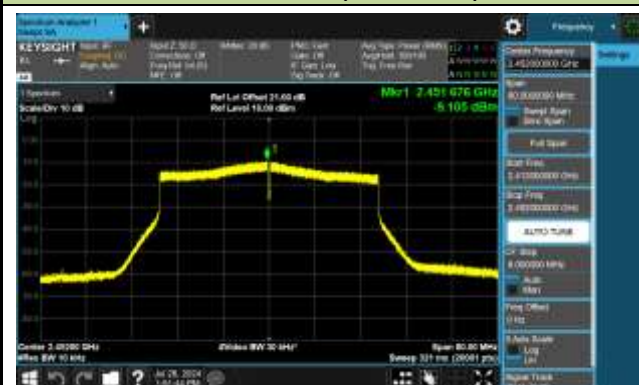
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

ANSI C63.10 - 2013 Section 11.11

7.5.3. Test Setting

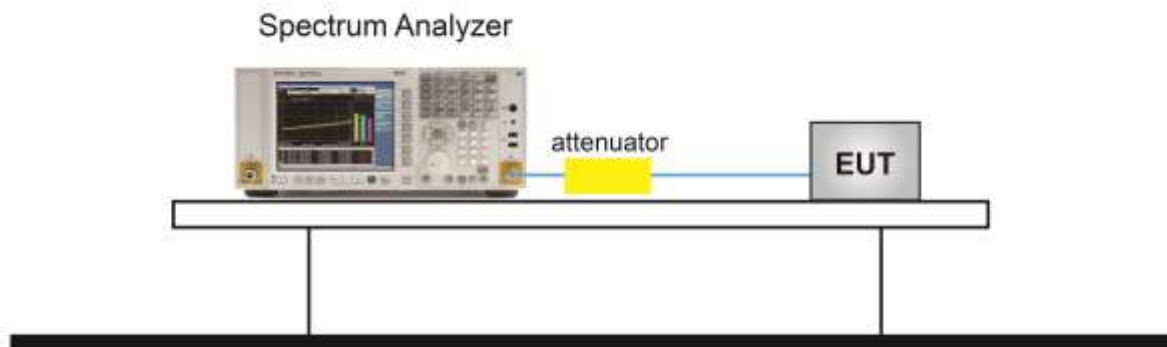
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW $\geq 3 \times$ RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

7.5.4. Test Setup



7.5.5. Test Result

Product	BE5000 Outdoor/Indoor Mesh Wi-Fi 7 Router	Temperature	25°C
Test Engineer	Owen	Relative Humidity	54%
Test Site	SR6	Test Date	2024/7/16

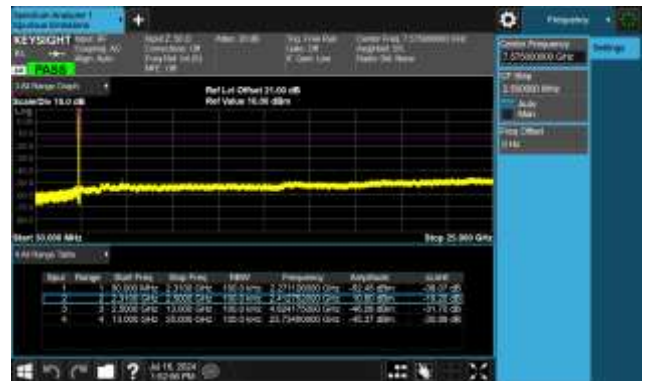
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
Horizontal Antenna					
802.11b	1Mbps	01	2412	30	Pass
802.11b	1Mbps	06	2437	30	Pass
802.11b	1Mbps	11	2462	30	Pass
802.11g	6Mbps	01	2412	30	Pass
802.11g	6Mbps	06	2437	30	Pass
802.11g	6Mbps	11	2462	30	Pass
802.11n-HT20	MCS0	01	2412	30	Pass
802.11n-HT20	MCS0	06	2437	30	Pass
802.11n-HT20	MCS0	11	2462	30	Pass
802.11n-HT40	MCS0	03	2422	30	Pass
802.11n-HT40	MCS0	06	2437	30	Pass
802.11n-HT40	MCS0	09	2452	30	Pass
802.11ax-HE20	MCS0	01	2412	30	Pass
802.11ax-HE20	MCS0	06	2437	30	Pass
802.11ax-HE20	MCS0	11	2462	30	Pass
802.11ax-HE40	MCS0	03	2422	30	Pass
802.11ax-HE40	MCS0	06	2437	30	Pass
802.11ax-HE40	MCS0	09	2452	30	Pass
802.11be-EHT20	MCS0	01	2412	30	Pass
802.11be-EHT20	MCS0	06	2437	30	Pass
802.11be-EHT20	MCS0	11	2462	30	Pass
802.11be-EHT40	MCS0	03	2422	30	Pass
802.11be-EHT40	MCS0	06	2437	30	Pass
802.11be-EHT40	MCS0	09	2452	30	Pass

Ant 0

802.11 b CH01 (2412MHz)



802.11 b CH01 (2412MHz)



802.11 b CH06 (2437MHz)



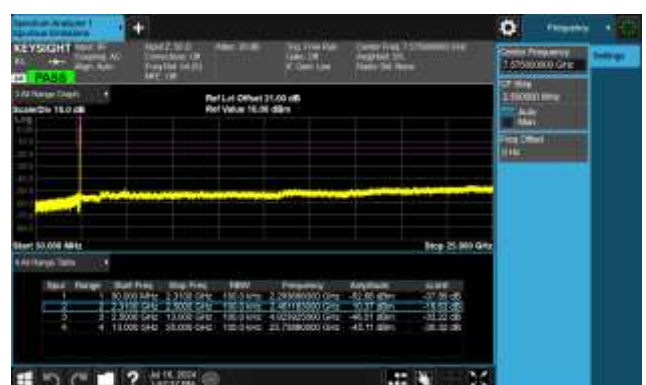
802.11 b CH06 (2437MHz)



802.11 b CH11 (2462MHz)



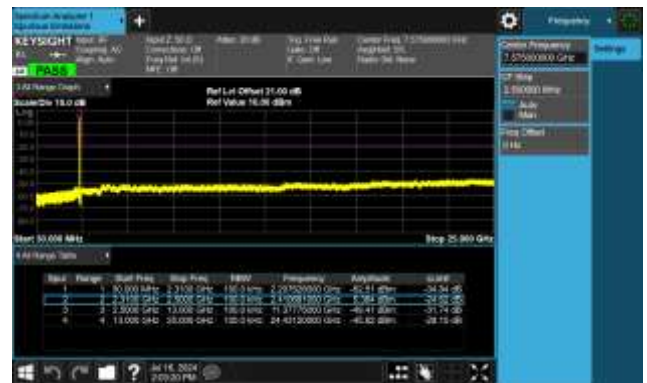
802.11 b CH11 (2462MHz)



802.11 g CH01 (2412MHz)



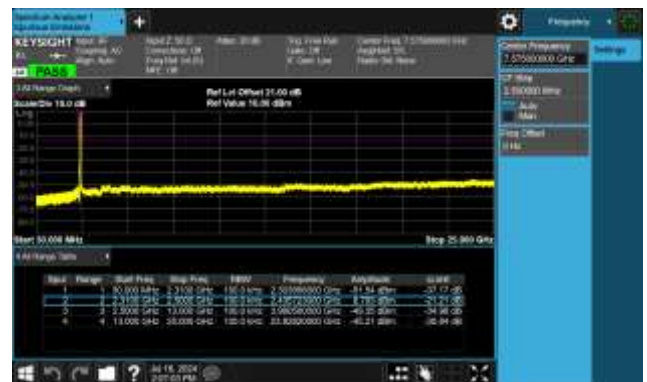
802.11 g CH01 (2412MHz)



802.11 g CH06 (2437MHz)



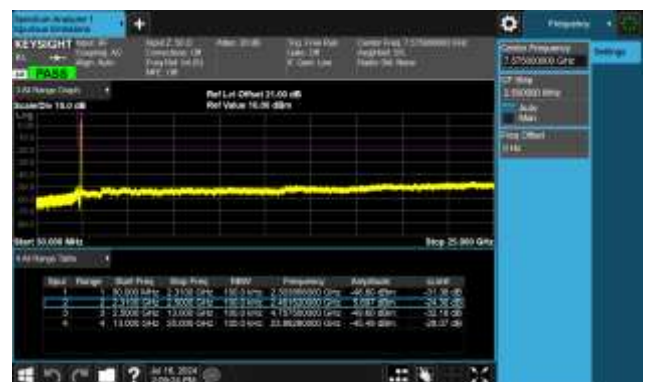
802.11 g CH06 (2437MHz)



802.11 g CH11 (2462MHz)



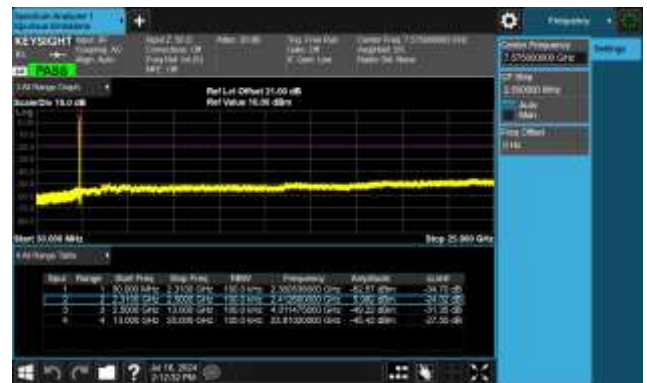
802.11 g CH11 (2462MHz)



802.11 n20 CH01 (2412MHz)



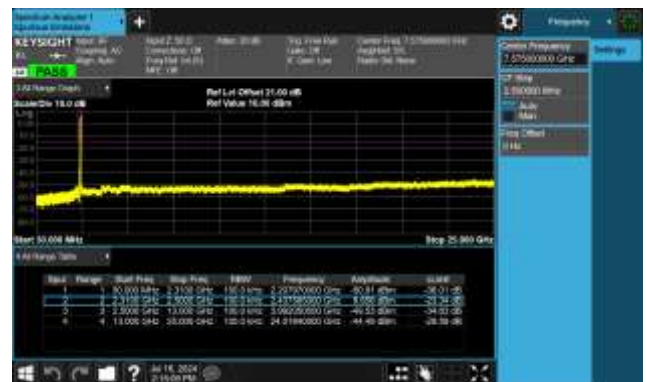
802.11 n20 CH01 (2412MHz)



802.11 n20 CH06 (2437MHz)



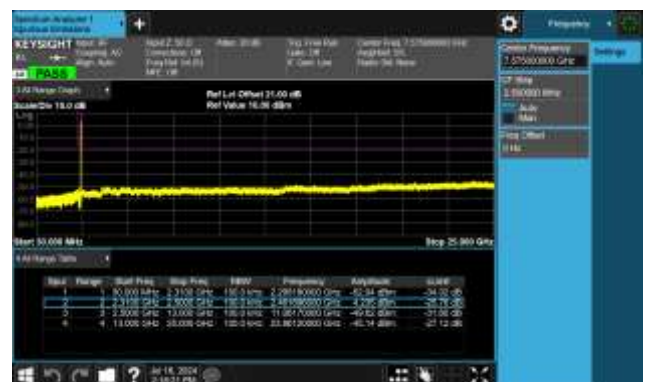
802.11 n20 CH06 (2437MHz)



802.11 n20 CH11 (2462MHz)



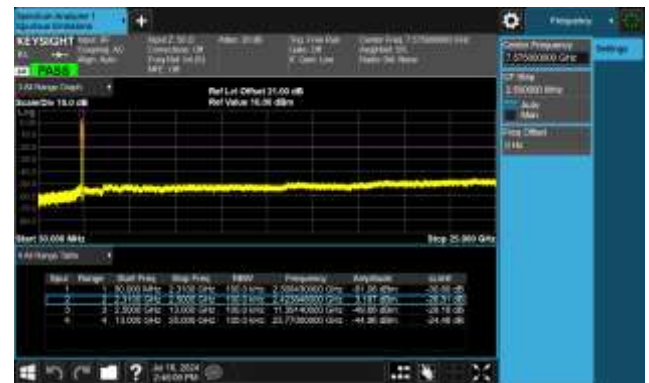
802.11 n20 CH11 (2462MHz)



802.11 n40 CH03 (2422MHz)



802.11 n40 CH03 (2422MHz)



802.11 n40 CH06 (2437MHz)



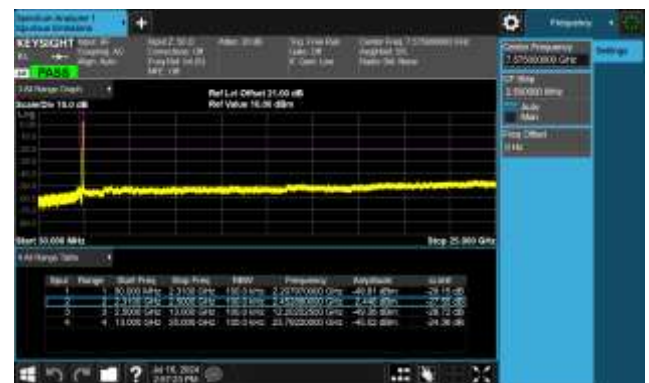
802.11 n40 CH06 (2437MHz)



802.11 n40 CH09 (2452MHz)



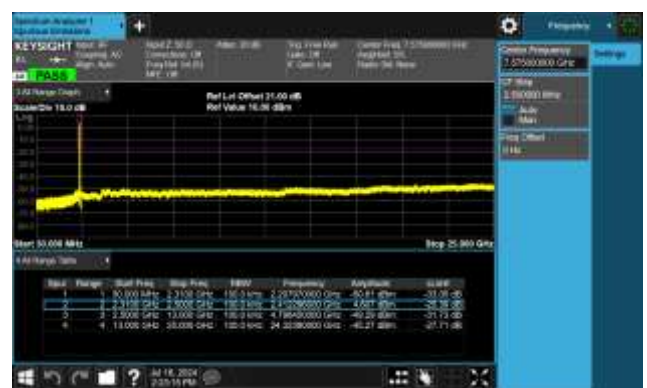
802.11 n40 CH09 (2452MHz)



802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH06 (2437MHz)



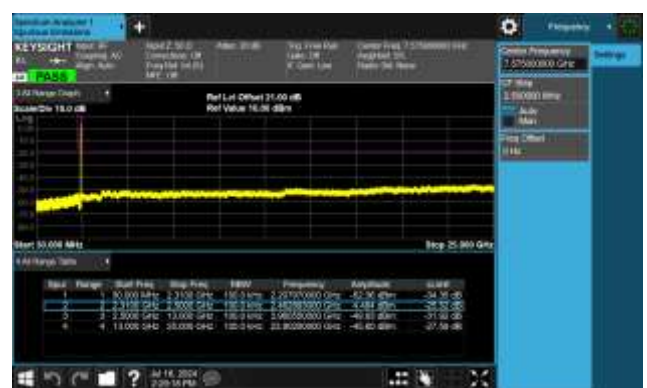
802.11 ax20 CH06 (2437MHz)



802.11 ax20 CH11 (2462MHz)



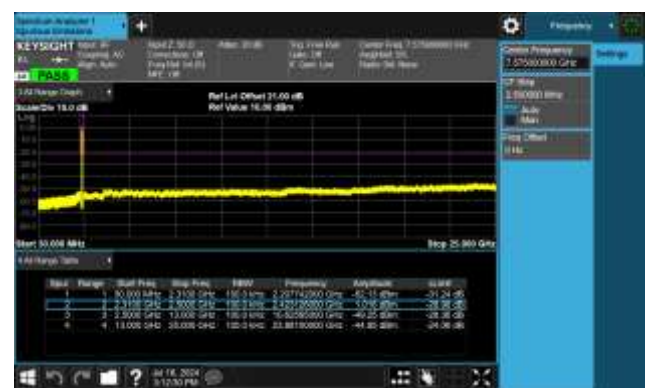
802.11 ax20 CH11 (2462MHz)



802.11 ax40 CH03 (2422MHz)



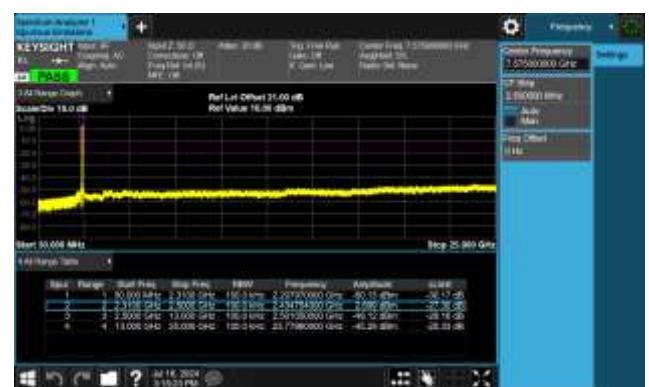
802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH06 (2437MHz)



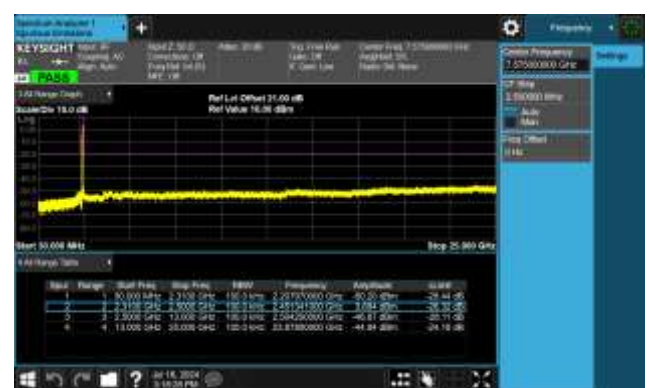
802.11 ax40 CH06 (2437MHz)



802.11 ax40 CH09 (2452MHz)



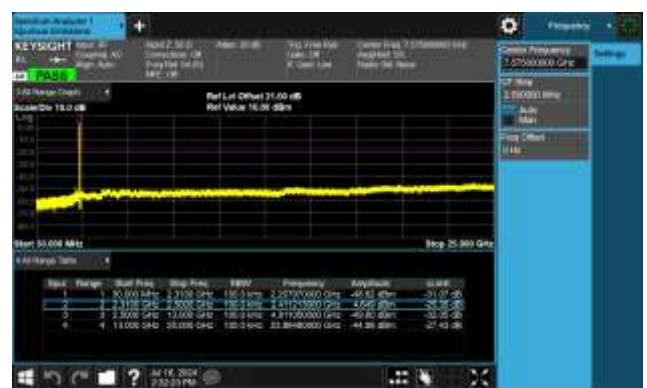
802.11 ax40 CH09 (2452MHz)



802.11 be20 CH01 (2412MHz)



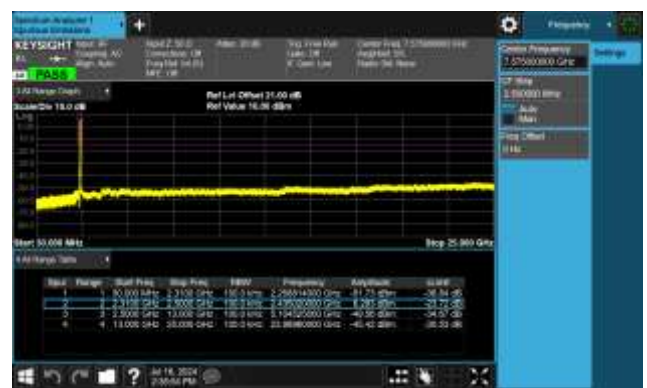
802.11 be20 CH01 (2412MHz)



802.11 be20 CH06 (2437MHz)



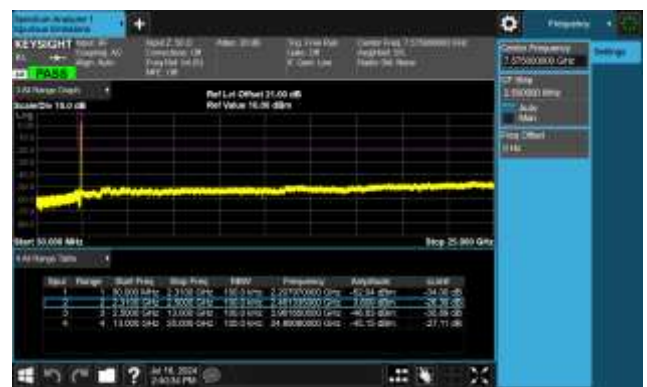
802.11 be20 CH06 (2437MHz)



802.11 be20 CH11 (2462MHz)



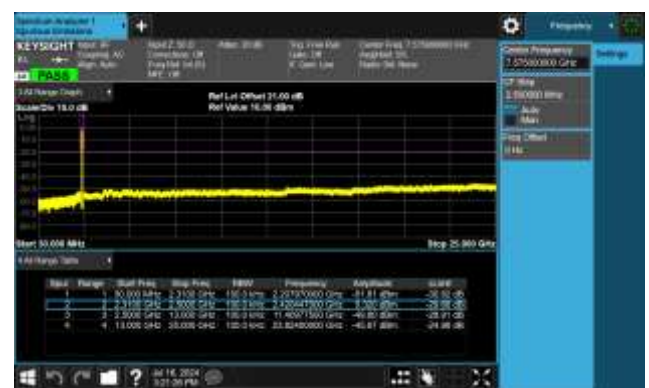
802.11 be20 CH11 (2462MHz)



802.11 be40 CH03 (2422MHz)



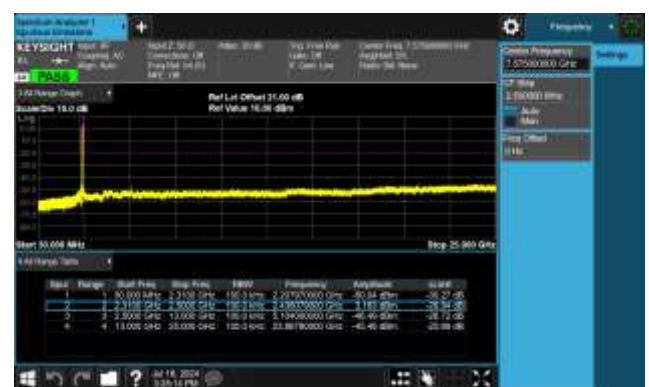
802.11 be40 CH03 (2422MHz)



802.11 be40 CH06 (2437MHz)



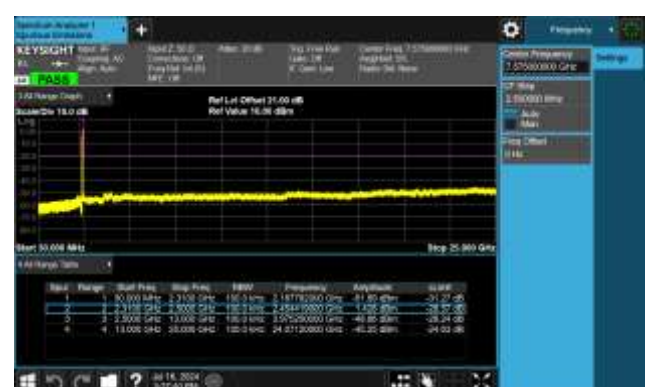
802.11 be40 CH06 (2437MHz)



802.11 be40 CH09 (2452MHz)



802.11 be40 CH09 (2452MHz)

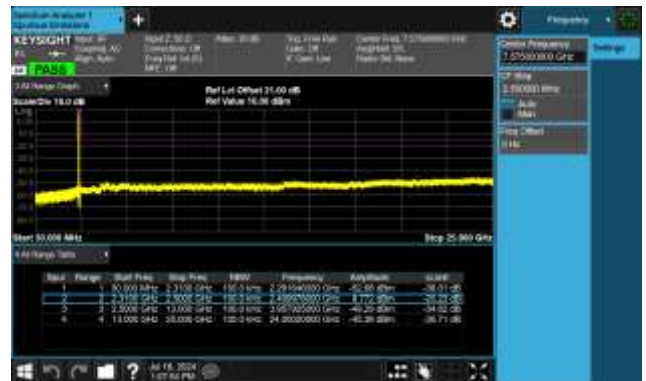


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802.11 b CH01 (2412MHz)



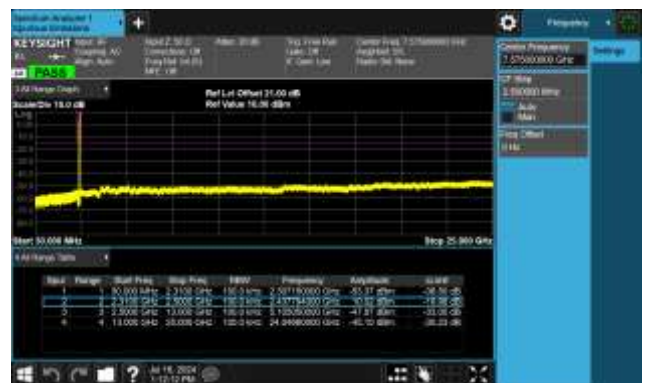
802.11 b CH01 (2412MHz)



802.11 b CH06 (2437MHz)



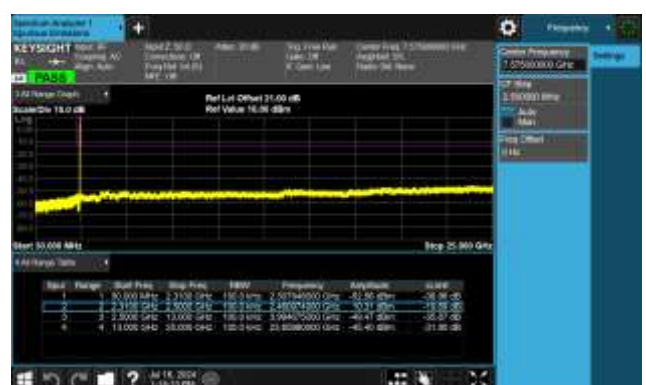
802.11 b CH06 (2437MHz)



802.11 b CH11 (2462MHz)



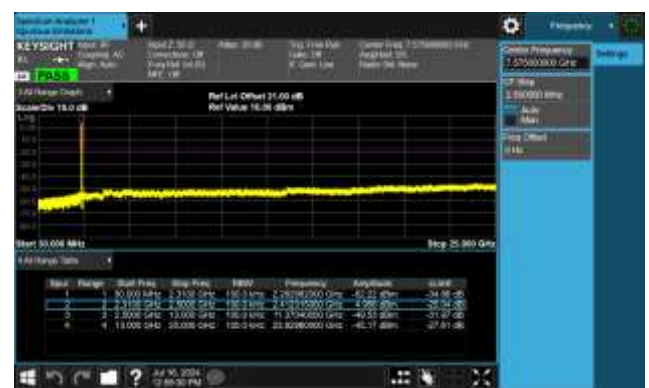
802.11 b CH11 (2462MHz)



802.11 g CH01 (2412MHz)



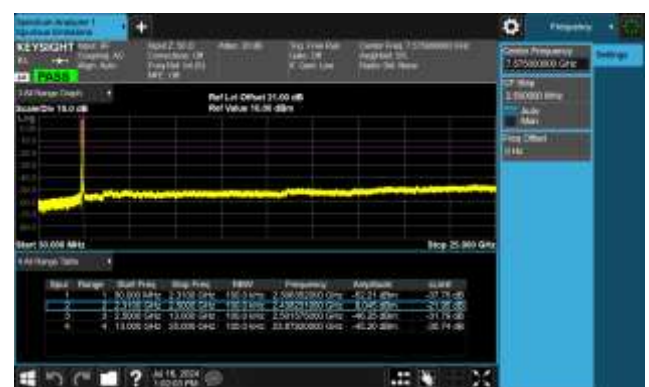
802.11 g CH01 (2412MHz)



802.11 g CH06 (2437MHz)



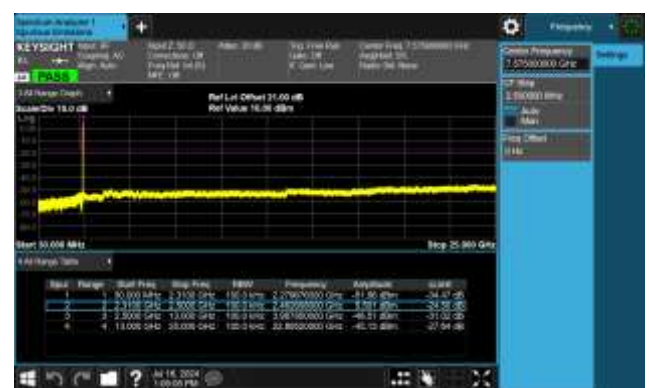
802.11 g CH06 (2437MHz)



802.11 g CH11 (2462MHz)



802.11 g CH11 (2462MHz)

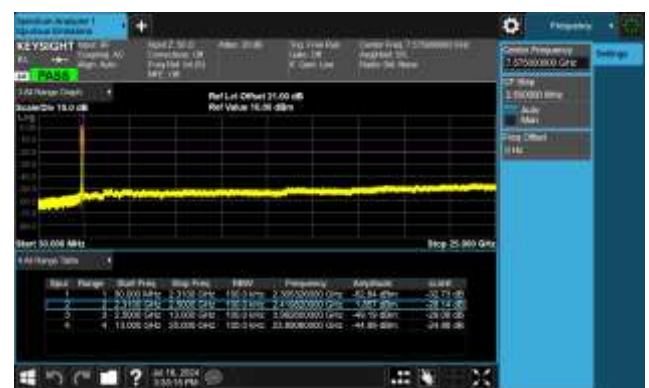




802.11 n40 CH03 (2422MHz)



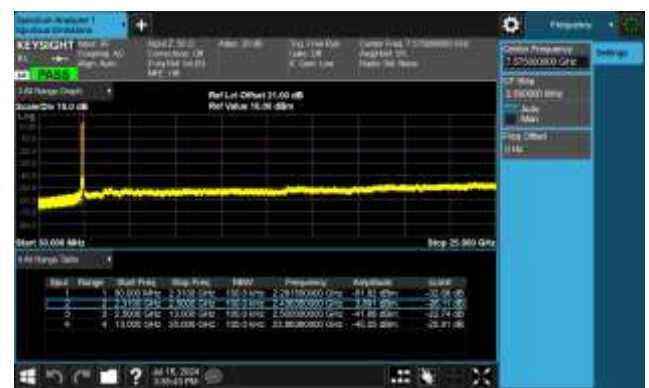
802.11 n40 CH03 (2422MHz)



802.11 n40 CH06 (2437MHz)



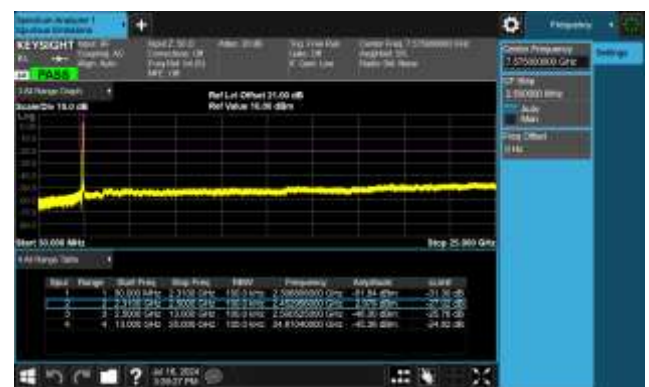
802.11 n40 CH06 (2437MHz)



802.11 n40 CH09 (2452MHz)



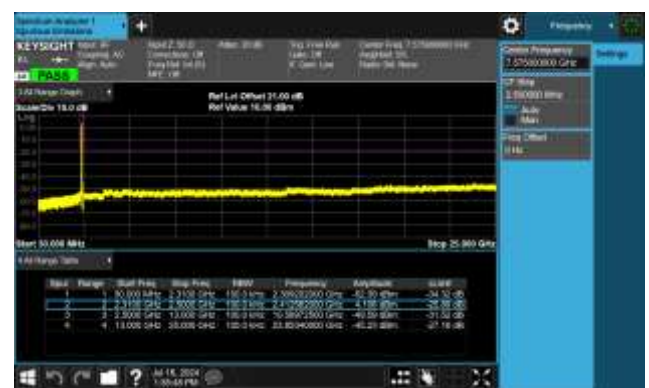
802.11 n40 CH09 (2452MHz)



802.11 ax20 CH01 (2412MHz)



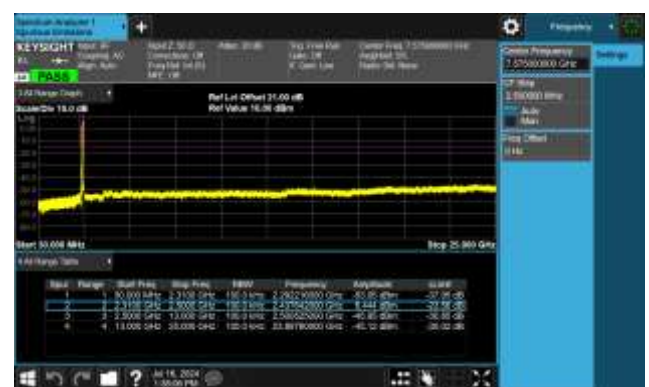
802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH06 (2437MHz)



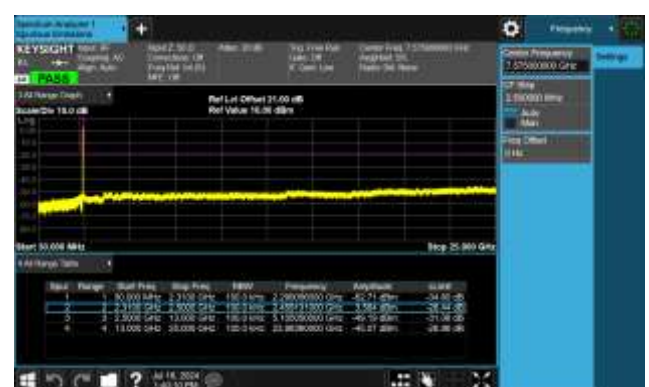
802.11 ax20 CH06 (2437MHz)



802.11 ax20 CH11 (2462MHz)



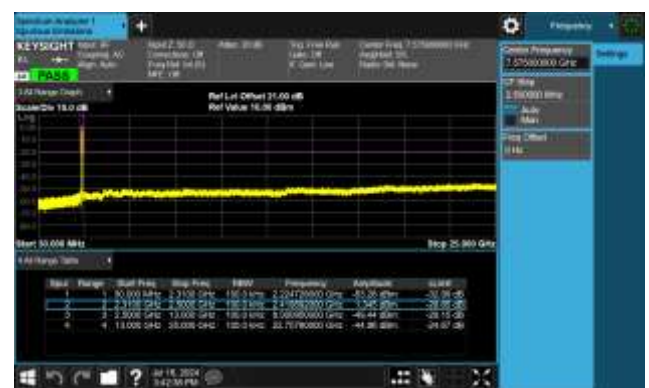
802.11 ax20 CH11 (2462MHz)



802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH06 (2437MHz)



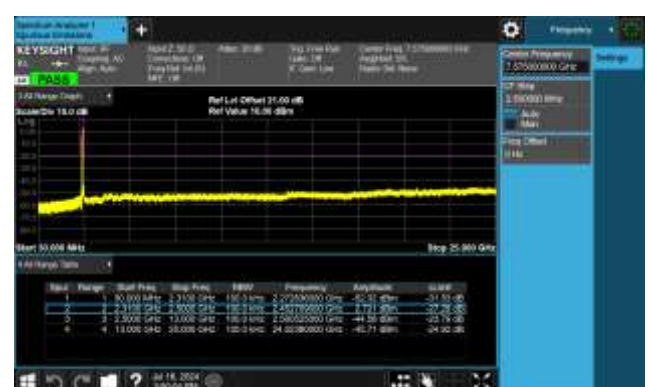
802.11 ax40 CH06 (2437MHz)



802.11 ax40 CH09 (2452MHz)



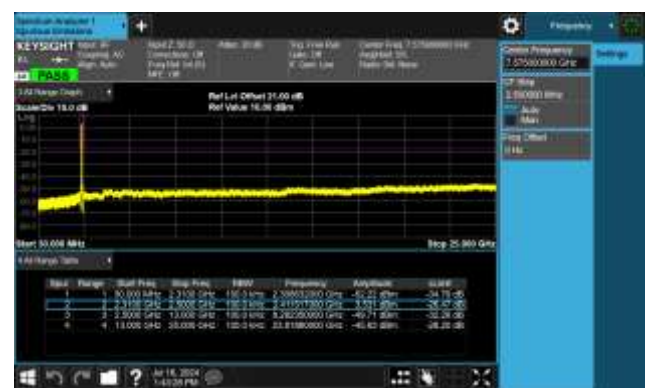
802.11 ax40 CH09 (2452MHz)



802.11 be20 CH01 (2412MHz)



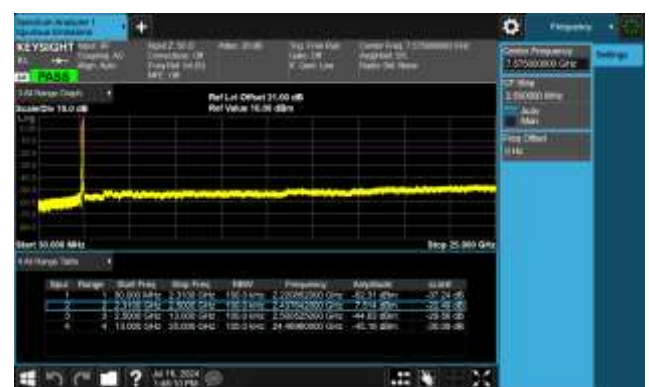
802.11 be20 CH01 (2412MHz)



802.11 be20 CH06 (2437MHz)



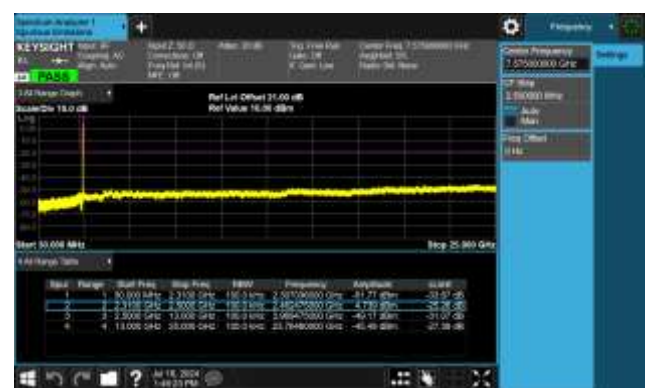
802.11 be20 CH06 (2437MHz)



802.11 be20 CH11 (2462MHz)



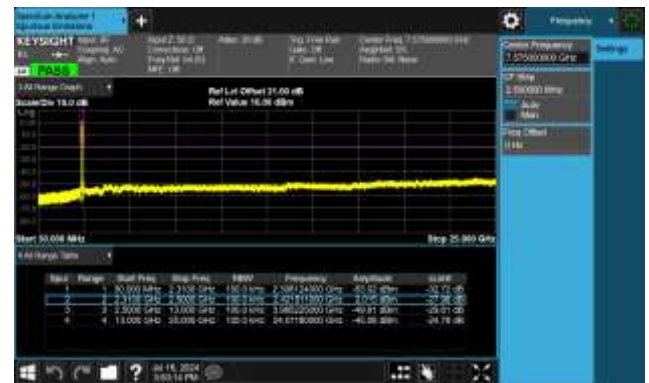
802.11 be20 CH11 (2462MHz)



802.11 be40 CH03 (2422MHz)



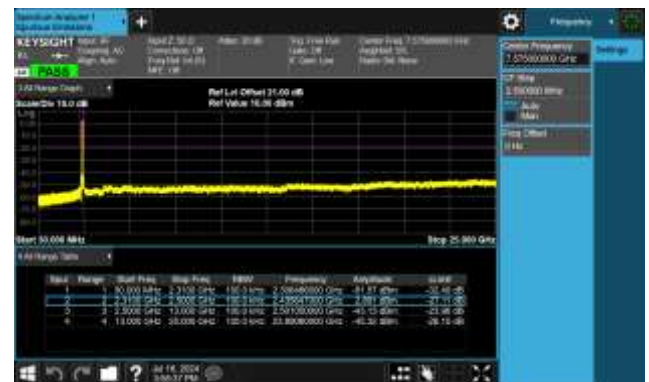
802.11 be40 CH03 (2422MHz)



802.11 be40 CH06 (2437MHz)



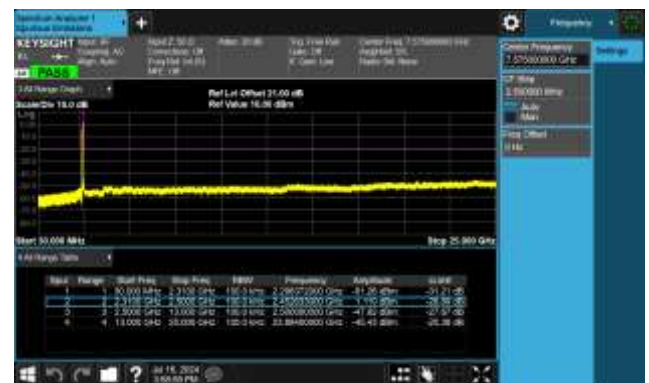
802.11 be40 CH06 (2437MHz)



802.11 be40 CH09 (2452MHz)



802.11 be40 CH09 (2452MHz)



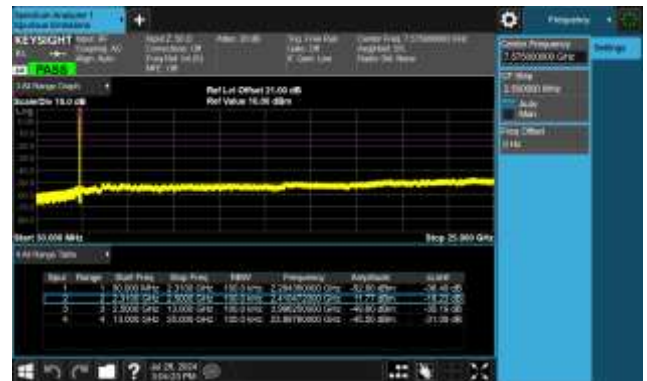
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit (dBc)	Result
Vertical Antenna					
802.11b	1Mbps	01	2412	30	Pass
802.11b	1Mbps	06	2437	30	Pass
802.11b	1Mbps	11	2462	30	Pass
802.11g	6Mbps	01	2412	30	Pass
802.11g	6Mbps	06	2437	30	Pass
802.11g	6Mbps	11	2462	30	Pass
802.11n-HT20	MCS0	01	2412	30	Pass
802.11n-HT20	MCS0	06	2437	30	Pass
802.11n-HT20	MCS0	11	2462	30	Pass
802.11n-HT40	MCS0	03	2422	30	Pass
802.11n-HT40	MCS0	06	2437	30	Pass
802.11n-HT40	MCS0	09	2452	30	Pass
802.11ax-HE20	MCS0	01	2412	30	Pass
802.11ax-HE20	MCS0	06	2437	30	Pass
802.11ax-HE20	MCS0	11	2462	30	Pass
802.11ax-HE40	MCS0	03	2422	30	Pass
802.11ax-HE40	MCS0	06	2437	30	Pass
802.11ax-HE40	MCS0	09	2452	30	Pass
802.11be-EHT20	MCS0	01	2412	30	Pass
802.11be-EHT20	MCS0	06	2437	30	Pass
802.11be-EHT20	MCS0	11	2462	30	Pass
802.11be-EHT40	MCS0	03	2422	30	Pass
802.11be-EHT40	MCS0	06	2437	30	Pass
802.11be-EHT40	MCS0	09	2452	30	Pass

Ant 0

802.11 b CH01 (2412MHz)



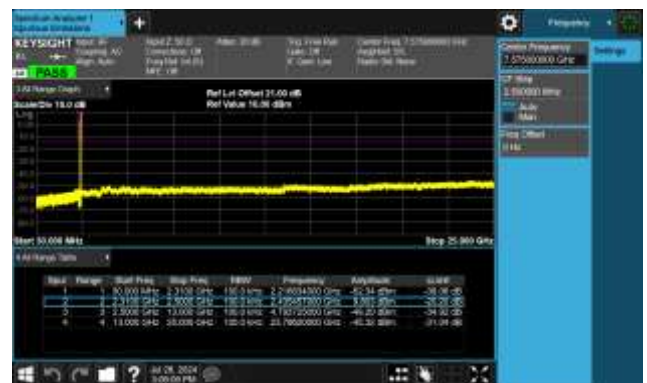
802.11 b CH01 (2412MHz)



802.11 b CH06 (2437MHz)



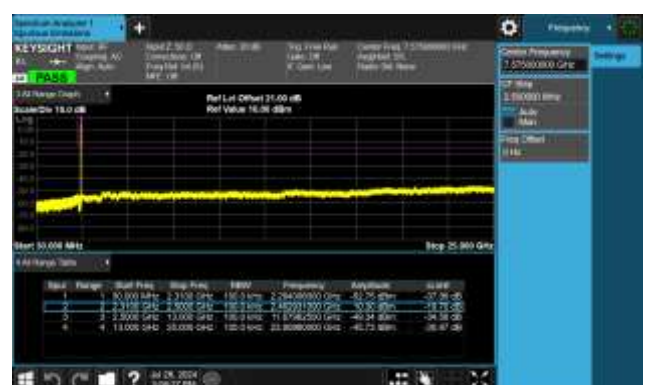
802.11 b CH06 (2437MHz)



802.11 b CH11 (2462MHz)



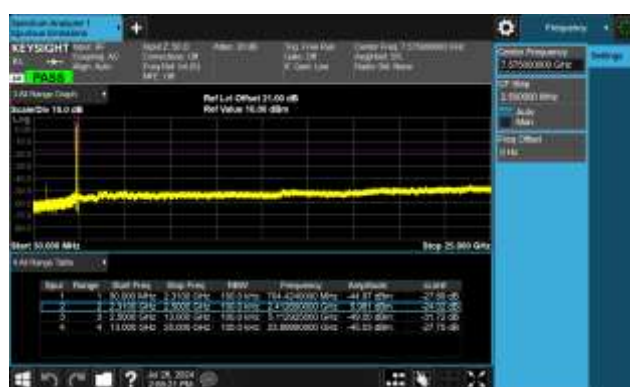
802.11 b CH11 (2462MHz)



802.11 g CH01 (2412MHz)



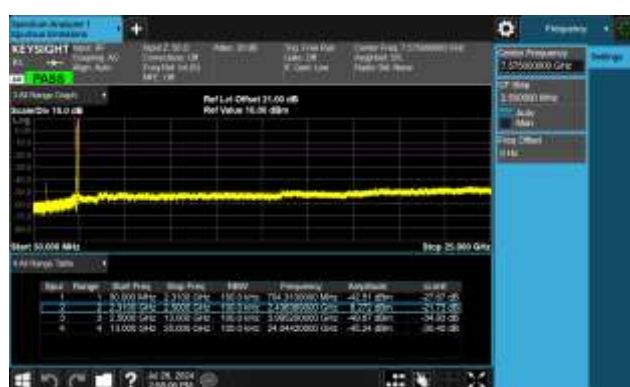
802.11 g CH01 (2412MHz)



802.11 g CH06 (2437MHz)



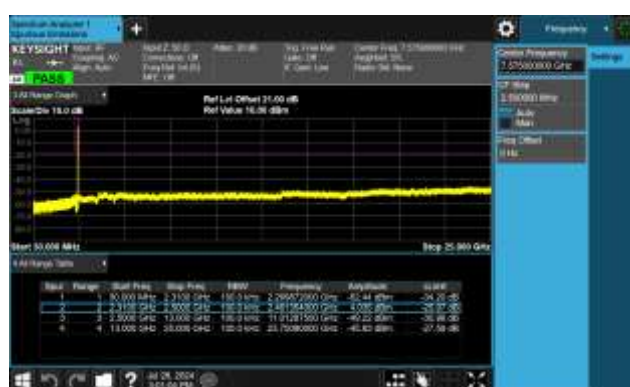
802.11 g CH06 (2437MHz)



802.11 g CH11 (2462MHz)



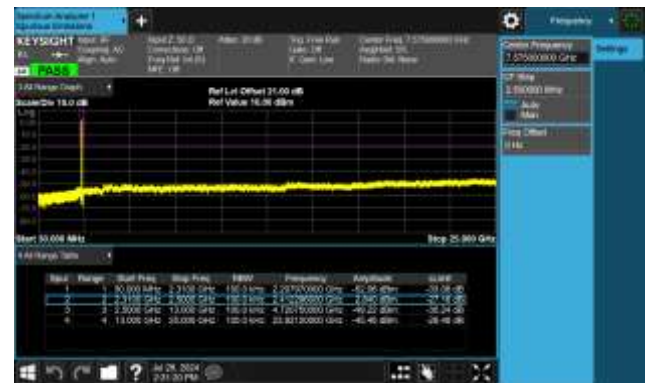
802.11 g CH11 (2462MHz)



802.11 n20 CH01 (2412MHz)



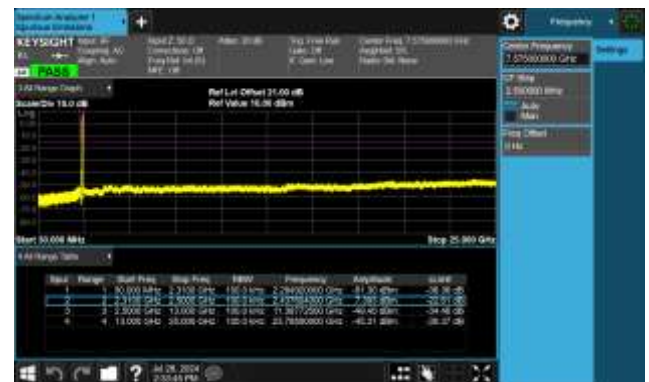
802.11 n20 CH01 (2412MHz)



802.11 n20 CH06 (2437MHz)



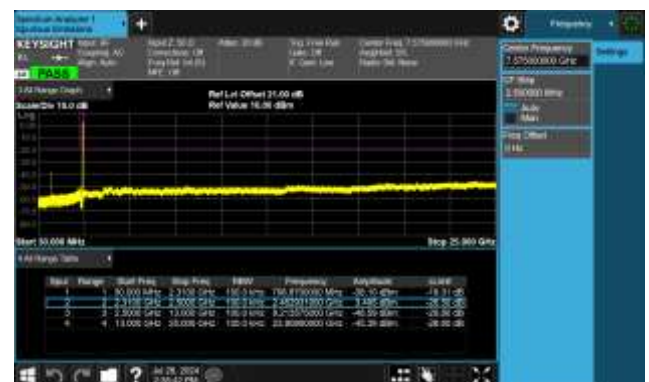
802.11 n20 CH06 (2437MHz)



802.11 n20 CH11 (2462MHz)



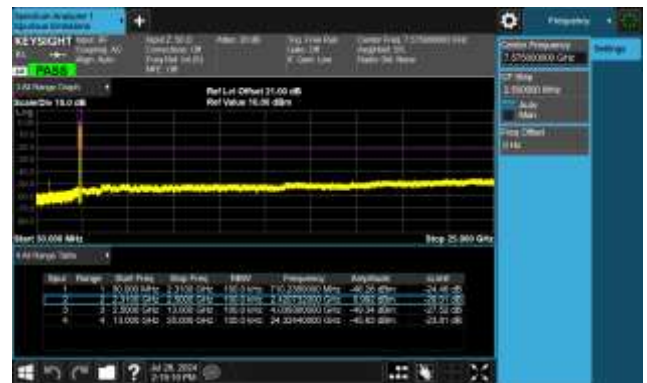
802.11 n20 CH11 (2462MHz)



802.11 n40 CH03 (2422MHz)



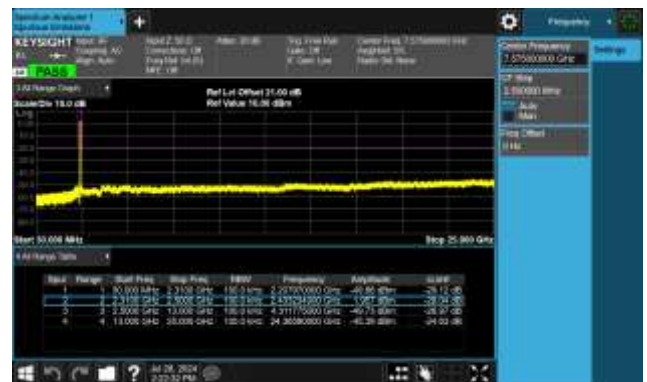
802.11 n40 CH03 (2422MHz)



802.11 n40 CH06 (2437MHz)



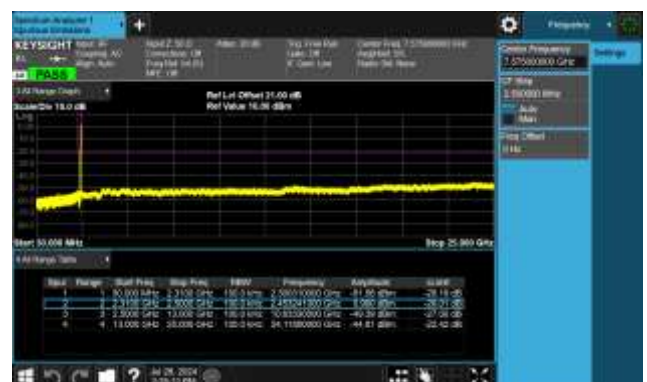
802.11 n40 CH06 (2437MHz)



802.11 n40 CH09 (2452MHz)



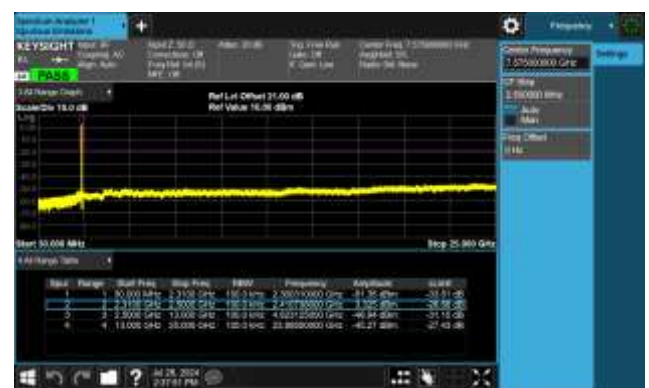
802.11 n40 CH09 (2452MHz)



802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH06 (2437MHz)



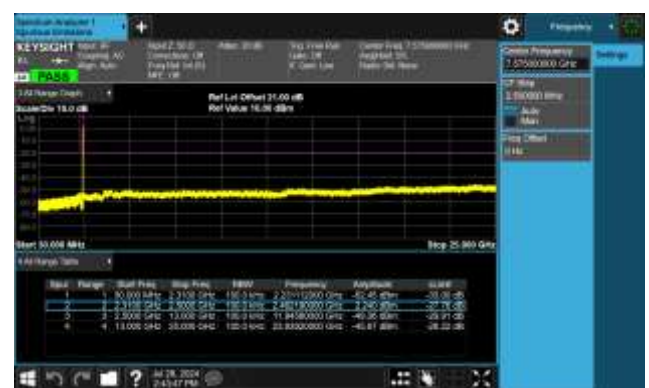
802.11 ax20 CH06 (2437MHz)



802.11 ax20 CH11 (2462MHz)



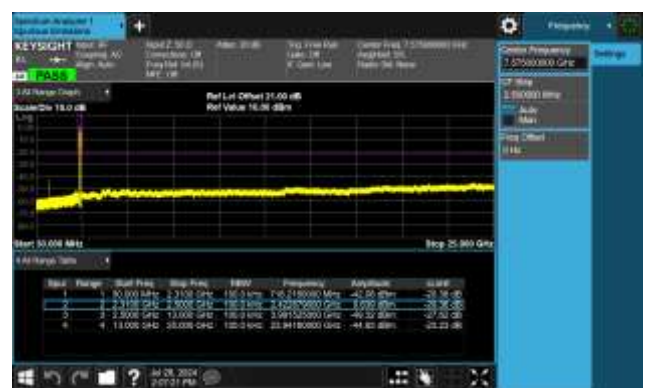
802.11 ax20 CH11 (2462MHz)



802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH06 (2437MHz)



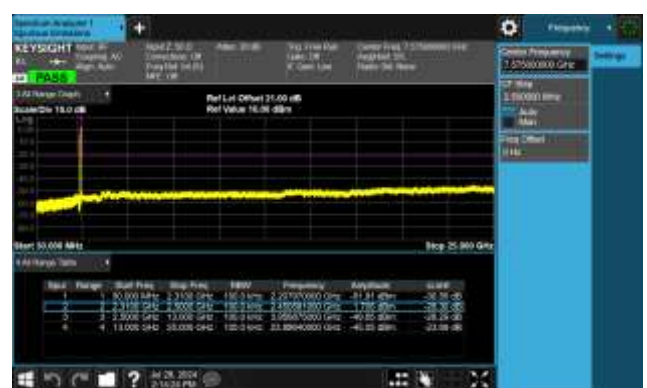
802.11 ax40 CH06 (2437MHz)



802.11 ax40 CH09 (2452MHz)



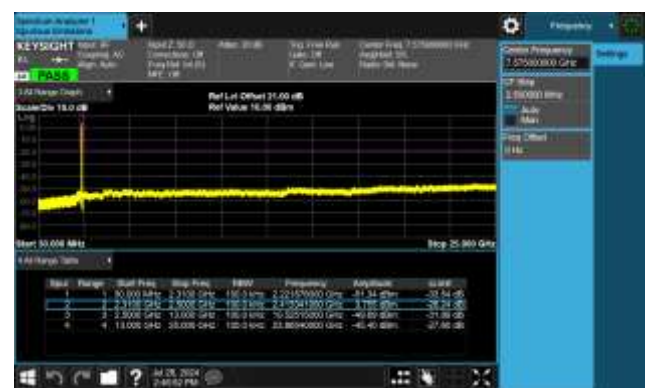
802.11 ax40 CH09 (2452MHz)



802.11 be20 CH01 (2412MHz)



802.11 be20 CH01 (2412MHz)



802.11 be20 CH06 (2437MHz)



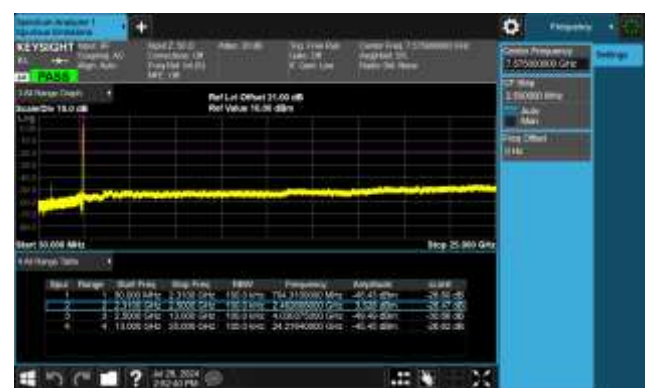
802.11 be20 CH06 (2437MHz)



802.11 be20 CH11 (2462MHz)



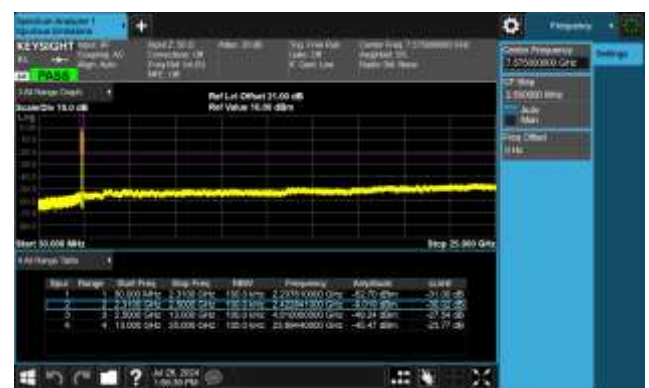
802.11 be20 CH11 (2462MHz)



802.11 be40 CH03 (2422MHz)



802.11 be40 CH03 (2422MHz)



802.11 be40 CH06 (2437MHz)



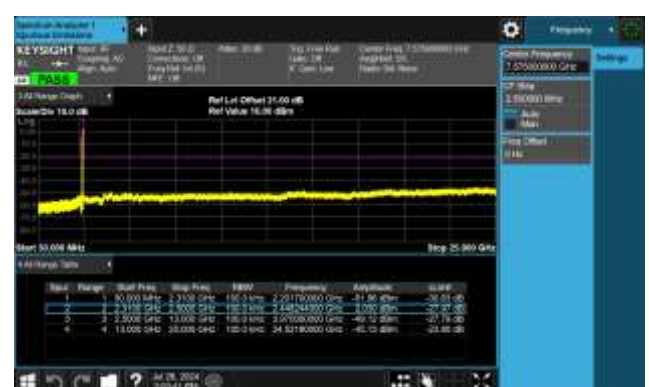
802.11 be40 CH06 (2437MHz)



802.11 be40 CH09 (2452MHz)



802.11 be40 CH09 (2452MHz)

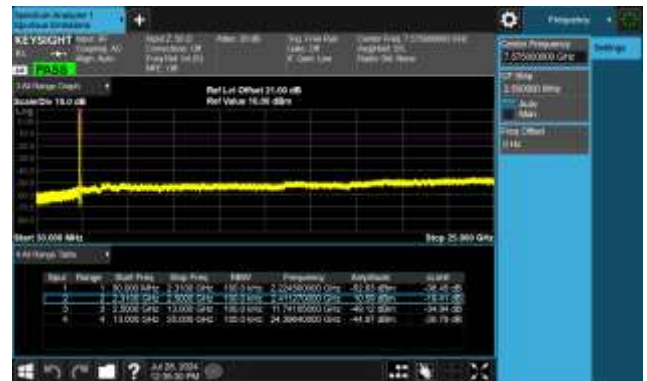


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802.11 b CH01 (2412MHz)



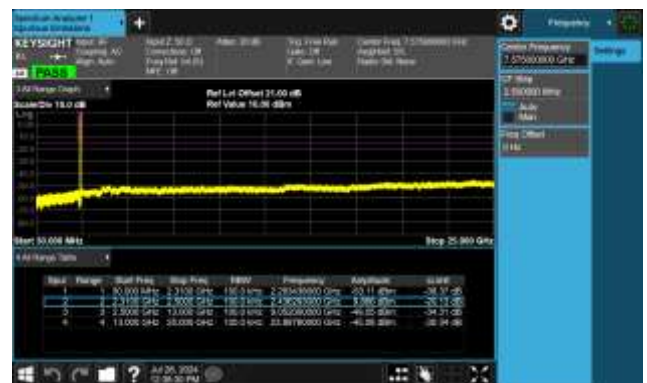
802.11 b CH01 (2412MHz)



802.11 b CH06 (2437MHz)



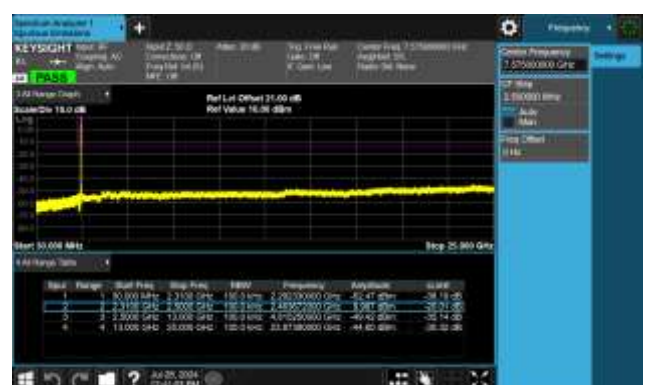
802.11 b CH06 (2437MHz)



802.11 b CH11 (2462MHz)



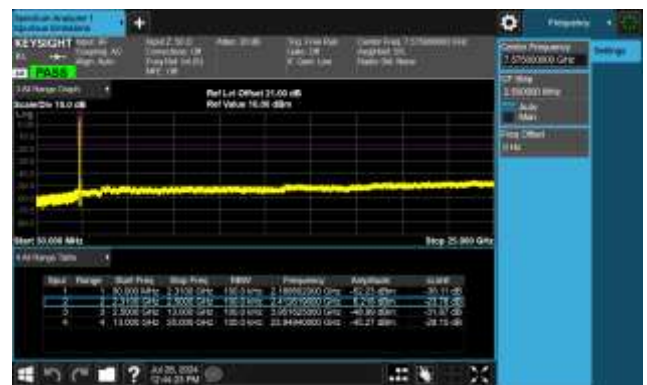
802.11 b CH11 (2462MHz)



802.11 g CH01 (2412MHz)



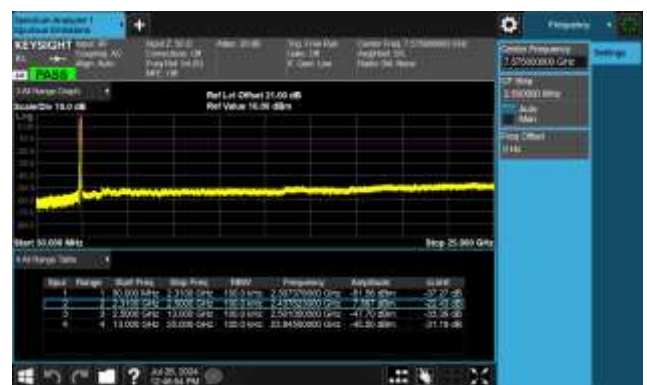
802.11 g CH01 (2412MHz)



802.11 g CH06 (2437MHz)



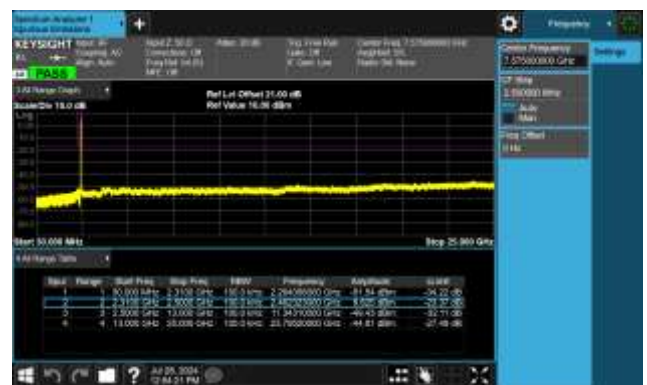
802.11 g CH06 (2437MHz)



802.11 g CH11 (2462MHz)



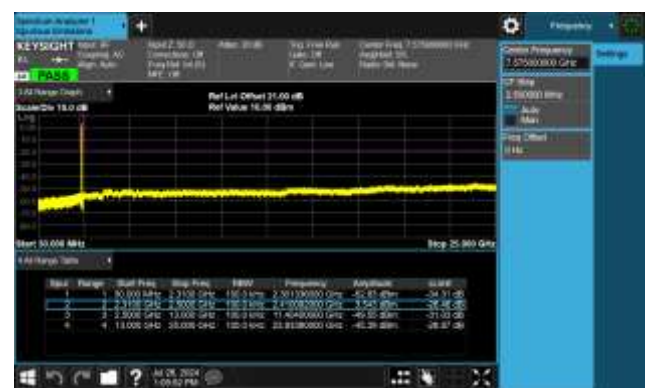
802.11 g CH11 (2462MHz)



802.11 n20 CH01 (2412MHz)



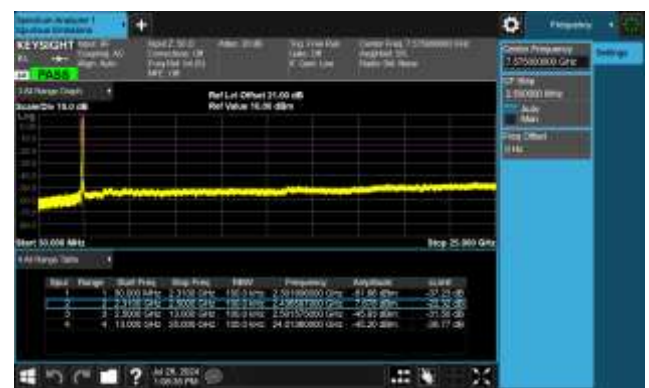
802.11 n20 CH01 (2412MHz)



802.11 n20 CH06 (2437MHz)



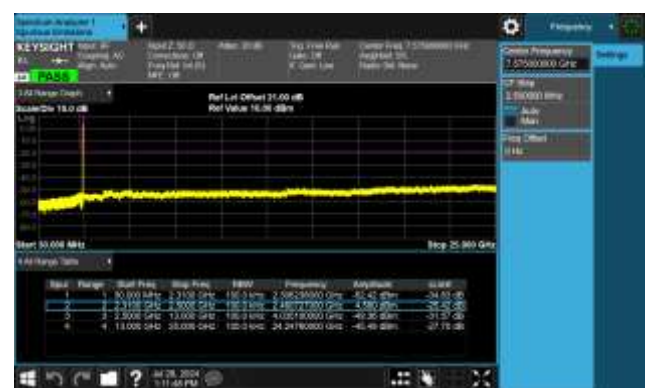
802.11 n20 CH06 (2437MHz)



802.11 n20 CH11 (2462MHz)



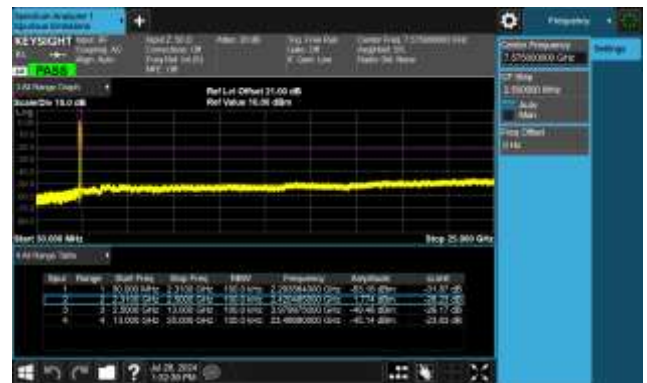
802.11 n20 CH11 (2462MHz)



802.11 n40 CH03 (2422MHz)



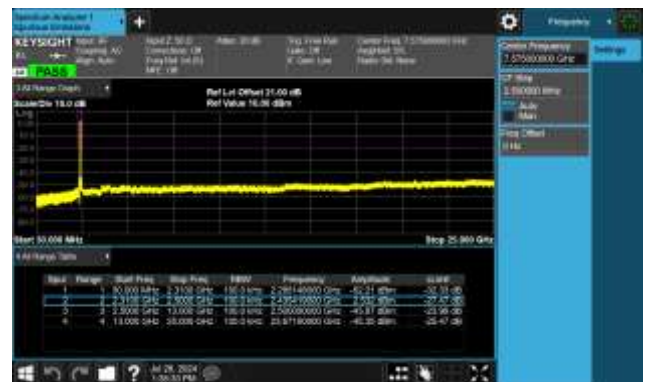
802.11 n40 CH03 (2422MHz)



802.11 n40 CH06 (2437MHz)



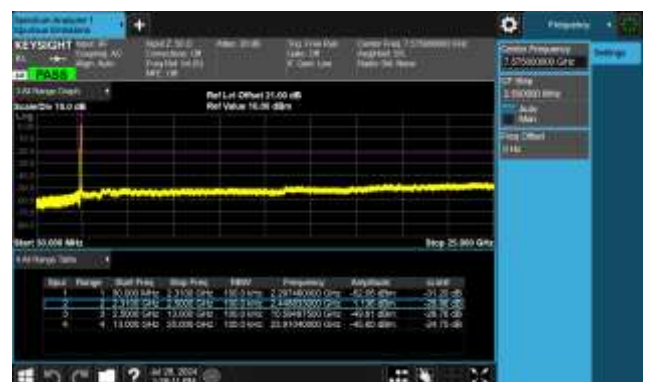
802.11 n40 CH06 (2437MHz)



802.11 n40 CH09 (2452MHz)



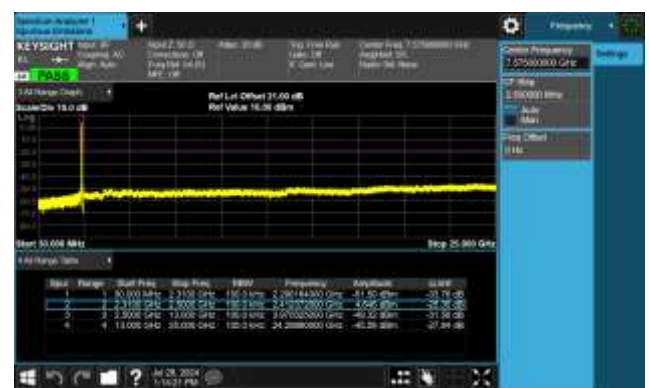
802.11 n40 CH09 (2452MHz)



802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH01 (2412MHz)



802.11 ax20 CH06 (2437MHz)



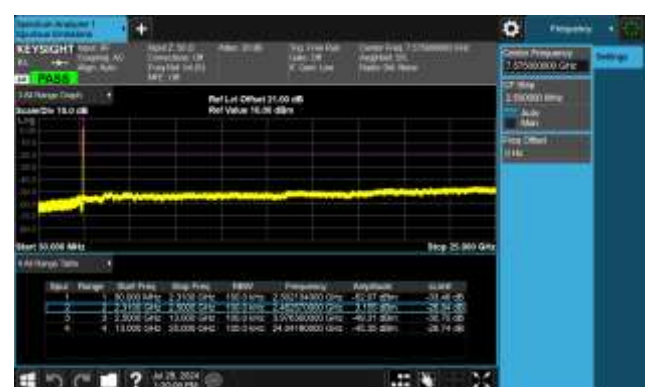
802.11 ax20 CH06 (2437MHz)



802.11 ax20 CH11 (2462MHz)



802.11 ax20 CH11 (2462MHz)



802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH03 (2422MHz)



802.11 ax40 CH06 (2437MHz)



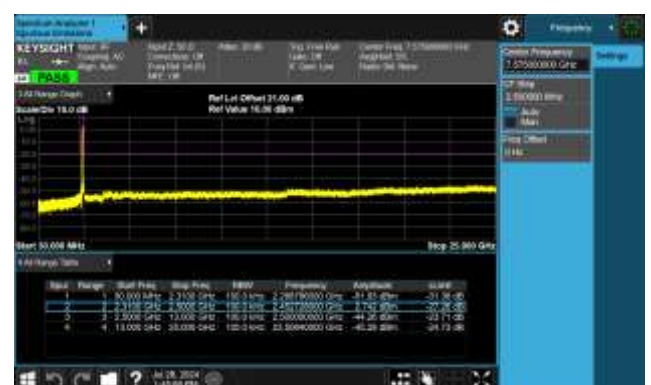
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802.11 ax40 CH09 (2452MHz)



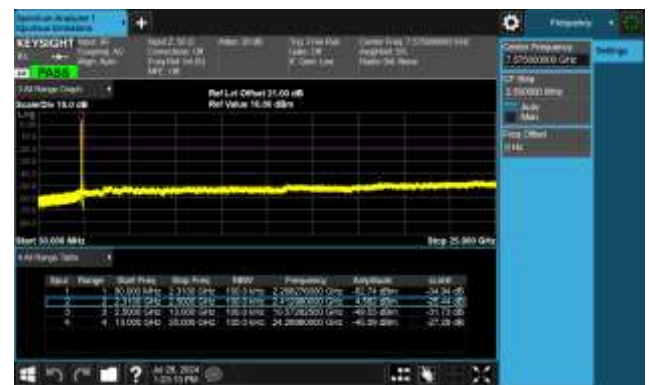
802.11 ax40 CH09 (2452MHz)



802.11 be20 CH01 (2412MHz)



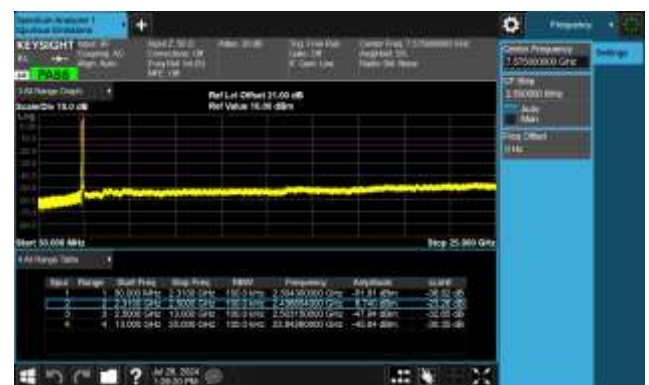
802.11 be20 CH01 (2412MHz)



802.11 be20 CH06 (2437MHz)



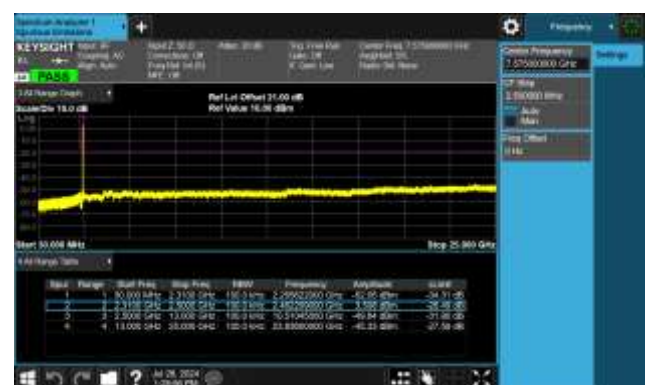
802.11 be20 CH06 (2437MHz)



802.11 be20 CH11 (2462MHz)



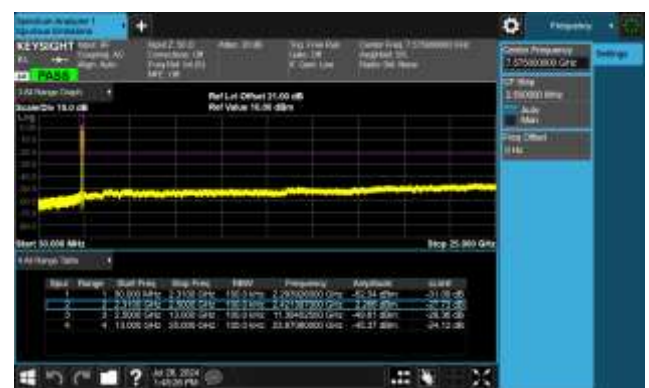
802.11 be20 CH11 (2462MHz)



802.11 be40 CH03 (2422MHz)



802.11 be40 CH03 (2422MHz)



802.11 be40 CH06 (2437MHz)



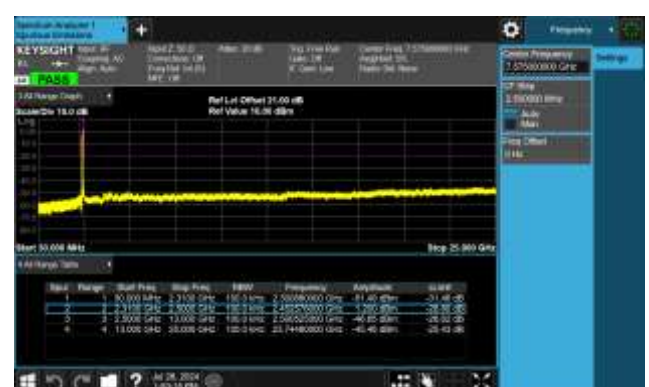
802.11 be40 CH06 (2437MHz)



802.11 be40 CH09 (2452MHz)



802.11 be40 CH09 (2452MHz)



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [Uv/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 Section 6.3 (General Requirements)

ANSI C63.10 - 2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 Section 6.6 (Standard test method above 1GHz)

7.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

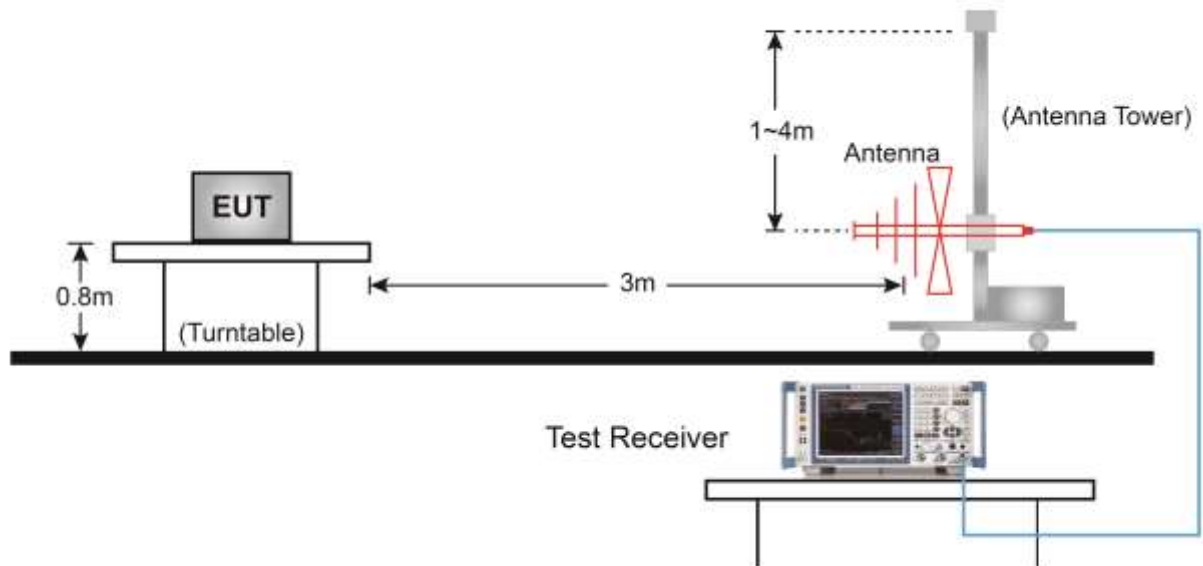
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

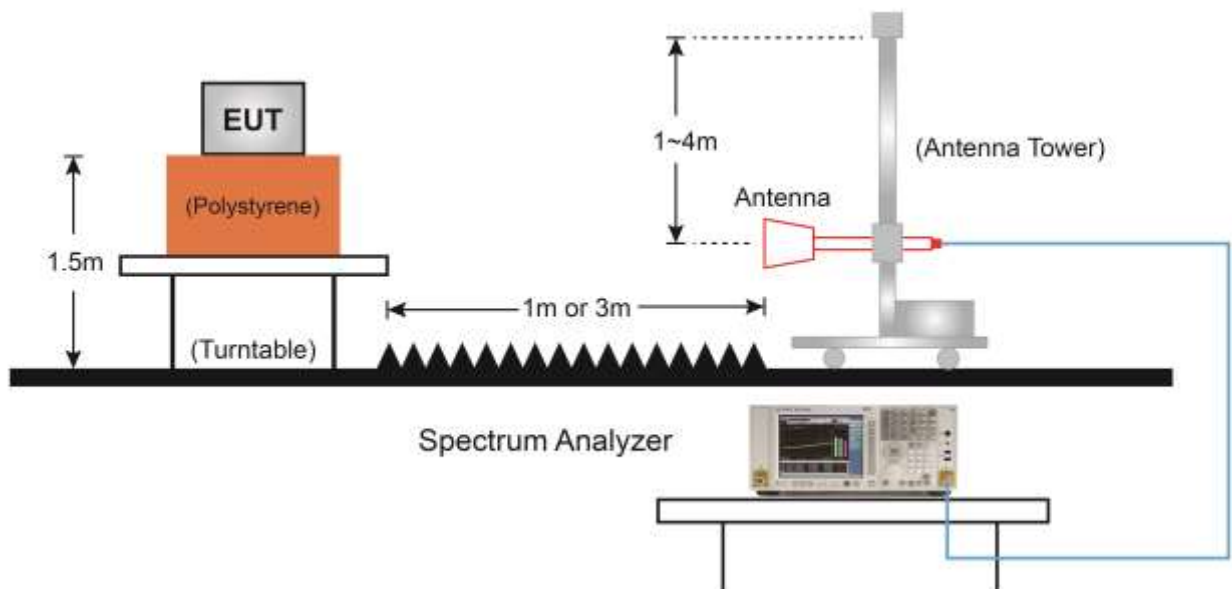
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

7.6.4.Test Setup

Below 1GHz Test Setup:



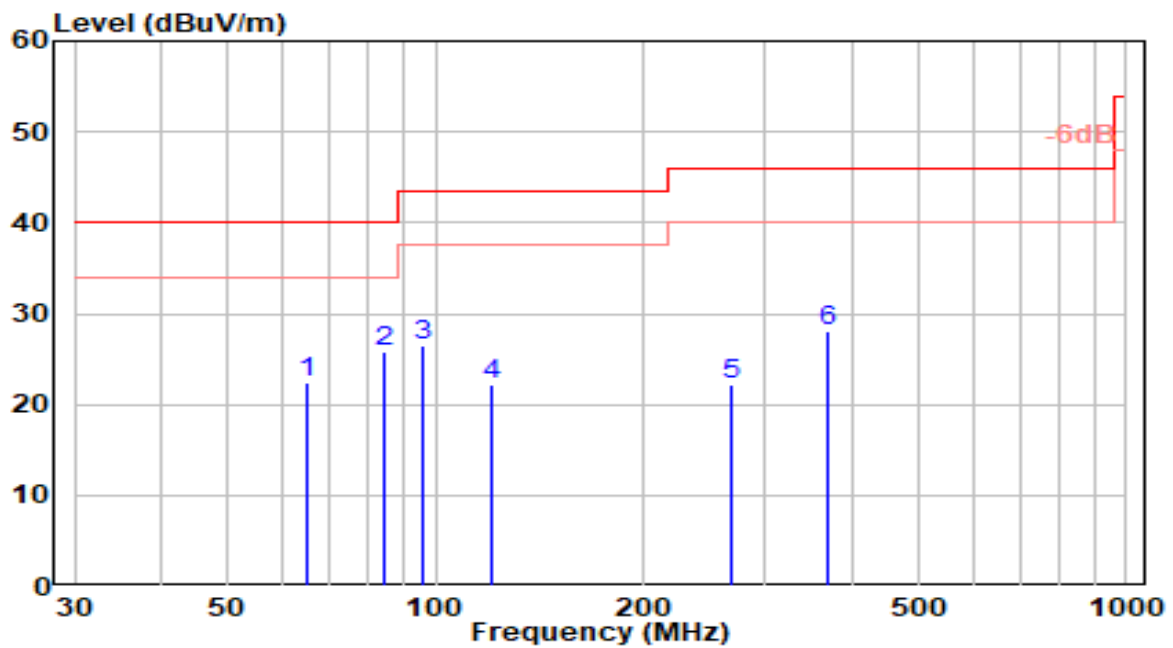
Above 1GHz Test Setup:



7.6.5. Test Result

Horizontal Antenna Data

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-31
Factor	VULB 9162	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 6 ANT 0+1_Horizontal Ant	Test Voltage	AC 120V/60Hz

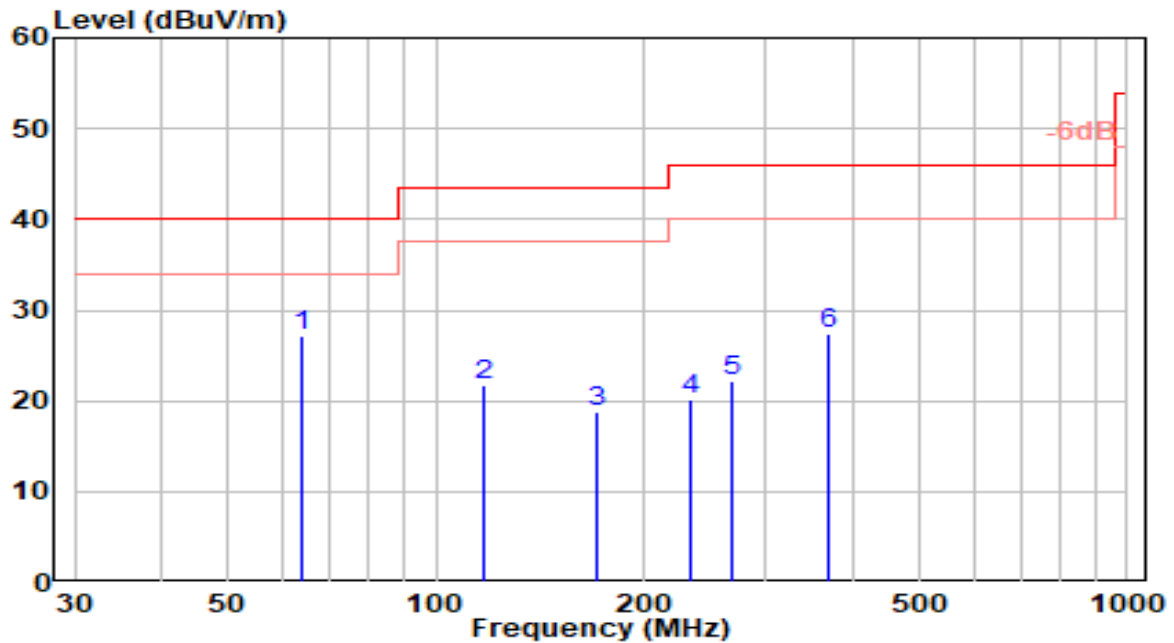


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		64.920	5.03	17.45	22.48	-17.52	40.00	300	248	QP
2	*	84.320	10.60	15.13	25.73	-14.27	40.00	200	36	QP
3		95.960	8.78	17.71	26.49	-17.01	43.50	300	78	QP
4		120.210	5.32	16.82	22.13	-21.37	43.50	188	360	QP
5		267.650	2.18	19.91	22.10	-23.90	46.00	100	48	QP
6		368.530	5.26	22.78	28.04	-17.96	46.00	200	9	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-31
Factor	VULB 9162	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 6 ANT 0+1_Horizontal Ant	Test Voltage	AC 120V/60Hz



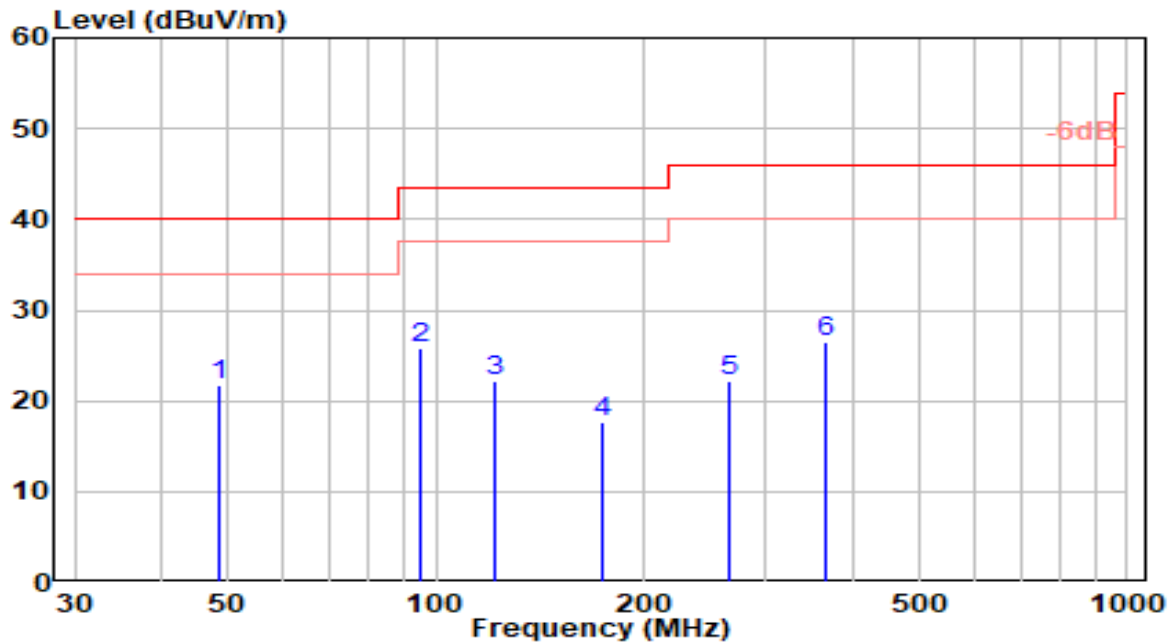
No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	63.950	9.37	17.80	27.17	-12.83	40.00	100	46	QP
2		117.300	4.48	17.26	21.74	-21.76	43.50	100	323	QP
3		171.620	2.79	15.90	18.69	-24.81	43.50	100	159	QP
4		233.700	0.97	19.11	20.08	-25.92	46.00	200	0	QP
5		267.650	2.31	19.91	22.23	-23.77	46.00	169	360	QP
6		369.500	4.52	22.80	27.31	-18.69	46.00	100	90	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.

Vertical Antenna Data

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-31
Factor	VULB 9162	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 6 ANT 0+1_Vertical Ant	Test Voltage	AC 120V/60Hz

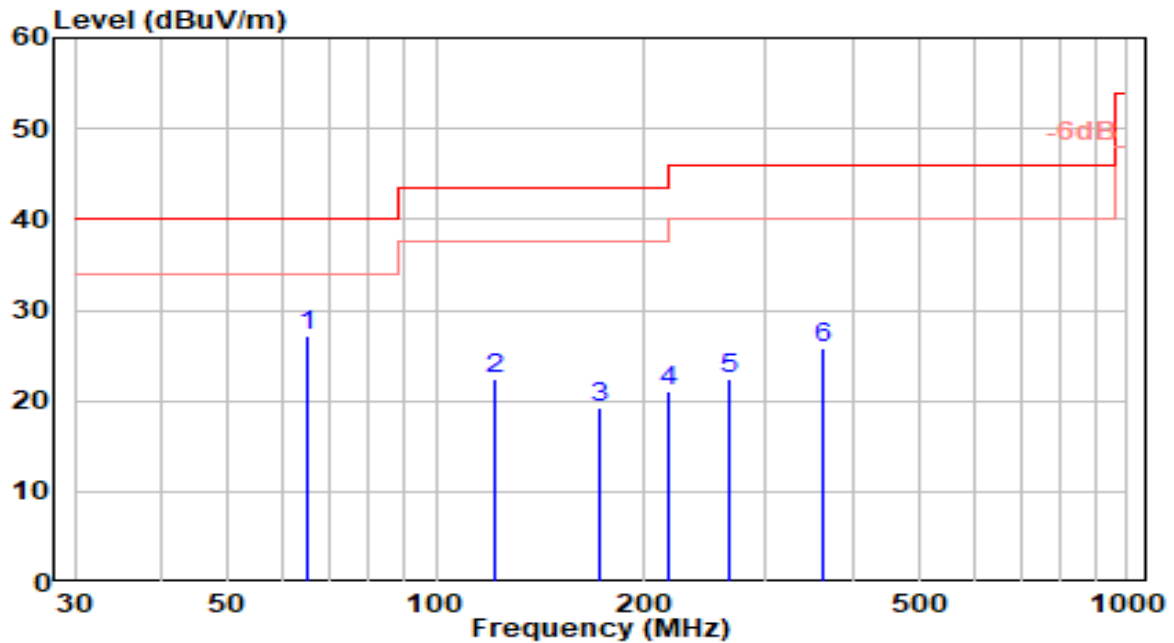


No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		48.430	1.36	20.47	21.83	-18.17	40.00	100	299	QP
2	*	94.990	8.16	17.57	25.73	-17.77	43.50	200	244	QP
3		121.180	5.53	16.67	22.20	-21.30	43.50	192	360	QP
4		174.530	1.61	16.06	17.68	-25.82	43.50	200	102	QP
5		265.710	2.20	19.94	22.14	-23.86	46.00	100	51	QP
6		367.560	3.80	22.77	26.56	-19.44	46.00	100	77	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-31
Factor	VULB 9162	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 6 ANT 0+1_Vertical Ant	Test Voltage	AC 120V/60Hz



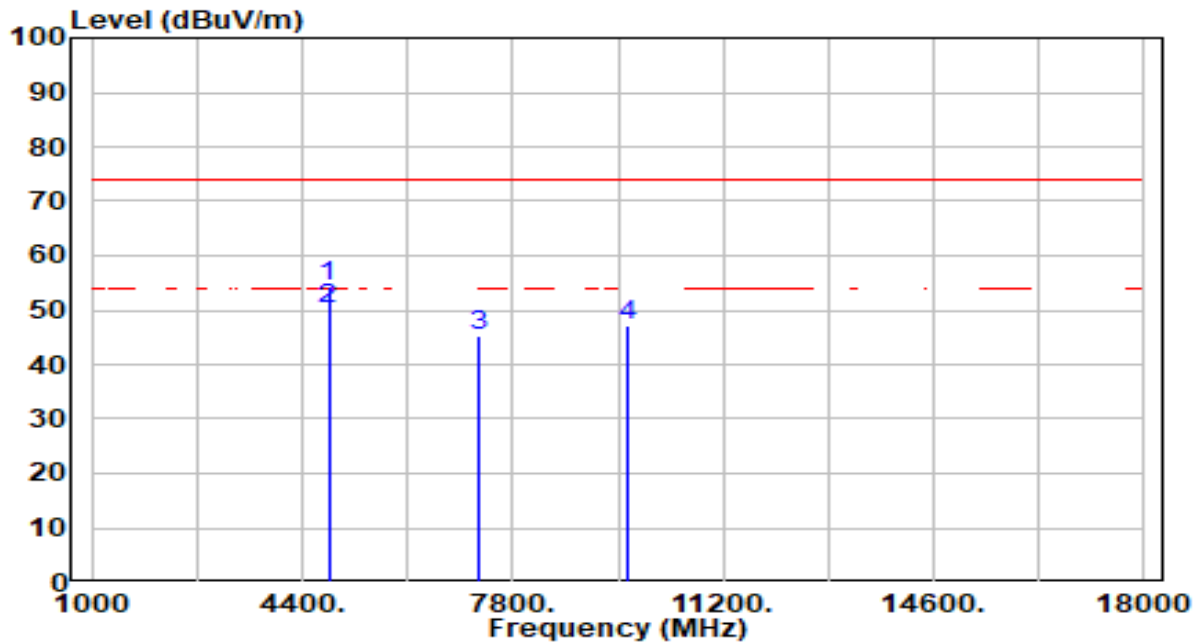
No		Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	64.920	9.83	17.45	27.28	-12.72	40.00	100	78	QP
2		121.180	5.70	16.67	22.37	-21.13	43.50	100	290	QP
3		172.590	3.20	15.96	19.16	-24.34	43.50	100	156	QP
4		216.240	3.00	18.10	21.10	-24.90	46.00	100	225	QP
5		266.680	2.50	19.93	22.43	-23.57	46.00	164	360	QP
6		362.710	3.18	22.68	25.86	-20.14	46.00	100	60	QP

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20dB below the permissible value. Therefore, the data is not presented in the report.

Horizontal Antenna Data

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

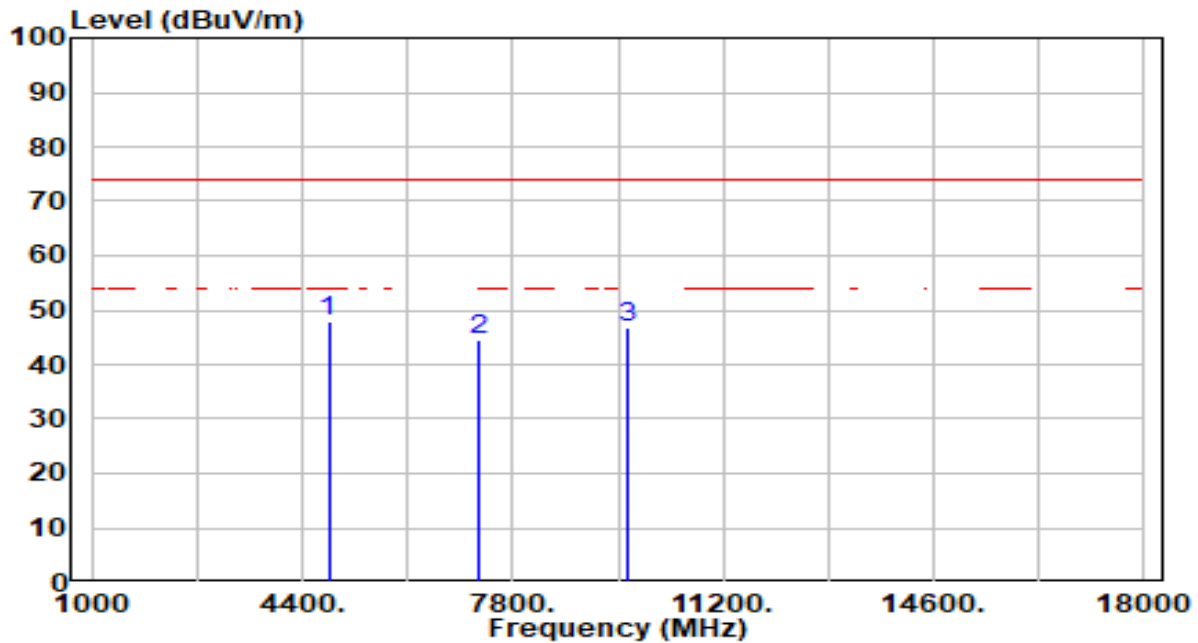


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	54.11	0.23	54.34	-19.66	74.00	100	85	Peak
2	*	4824.000	49.83	0.23	50.06	-3.94	54.00	100	85	Average
3		7236.000	39.80	5.54	45.34	-28.66	74.00	100	25	Peak
4		9648.000	42.01	5.30	47.31	-26.69	74.00	100	124	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

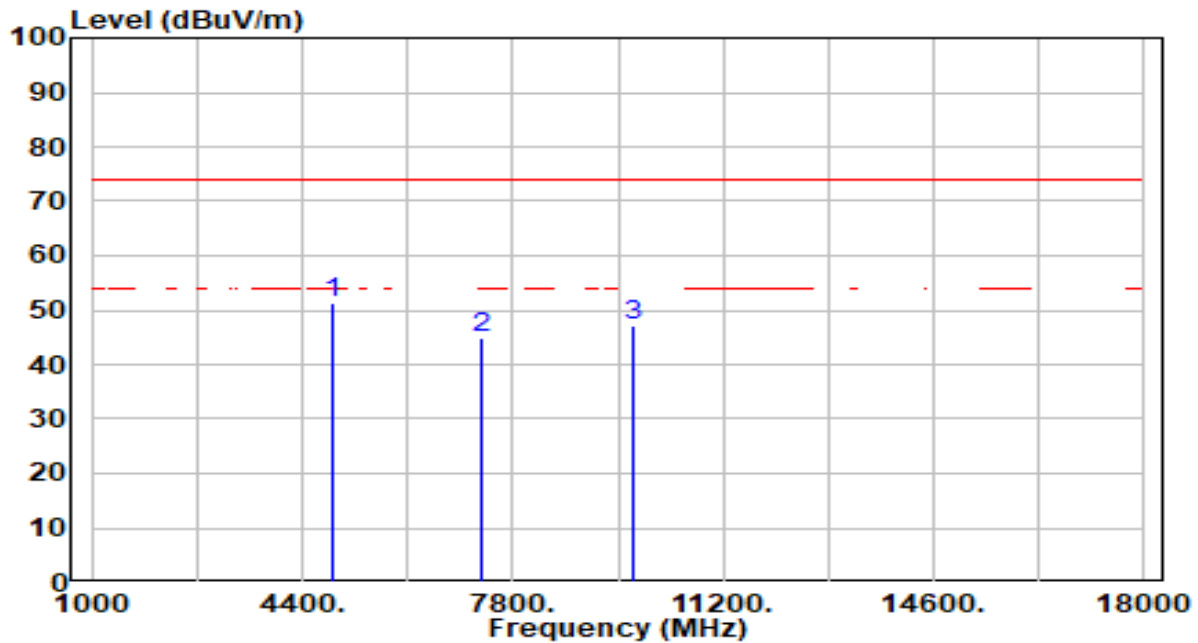


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4824.000	47.59	0.23	47.82	-26.18	74.00	200	65	Peak
2		7236.000	39.06	5.54	44.60	-29.40	74.00	300	343	Peak
3		9648.000	41.57	5.30	46.87	-27.13	74.00	200	209	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

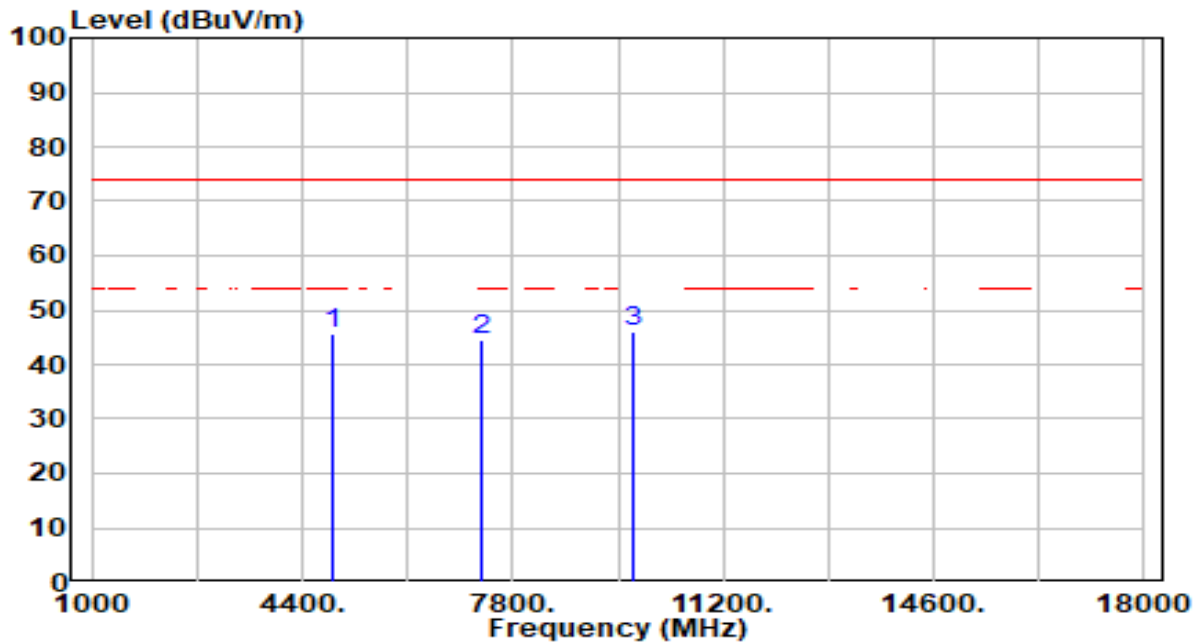


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4874.000	51.09	0.36	51.45	-22.55	74.00	100	14	Peak
2		7311.000	39.15	5.59	44.74	-29.26	74.00	100	98	Peak
3		9748.000	41.75	5.34	47.10	-26.90	74.00	100	238	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

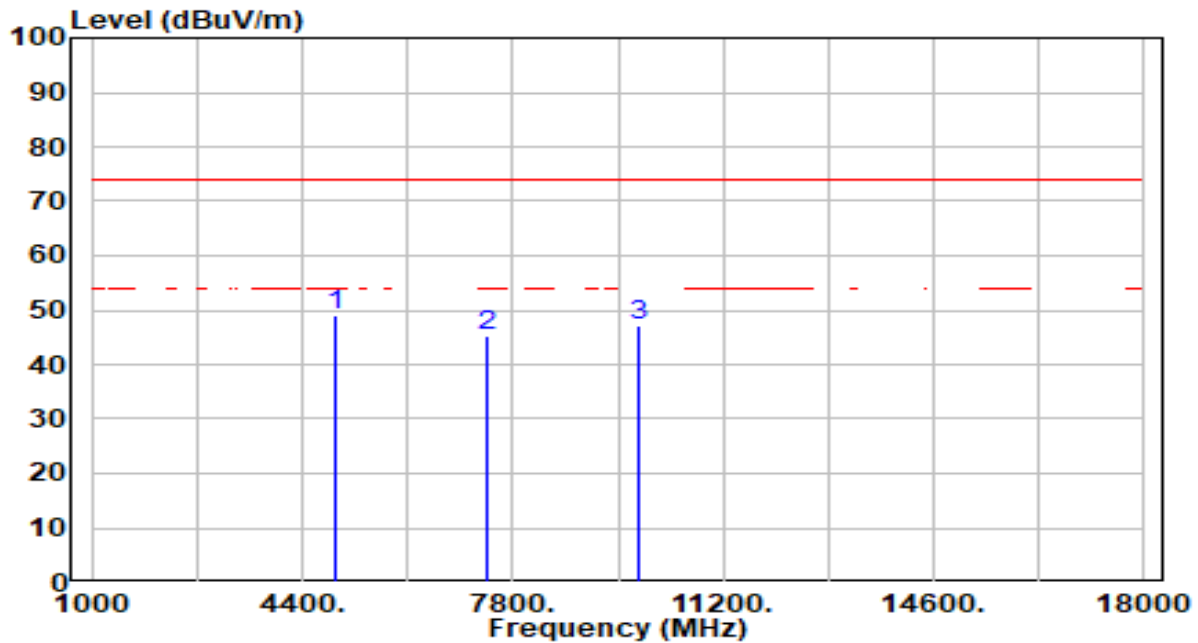


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	45.25	0.36	45.61	-28.39	74.00	100	236	Peak
2	7311.000	38.95	5.59	44.54	-29.46	74.00	100	79	Peak
3	* 9748.000	40.87	5.34	46.21	-27.79	74.00	100	299	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

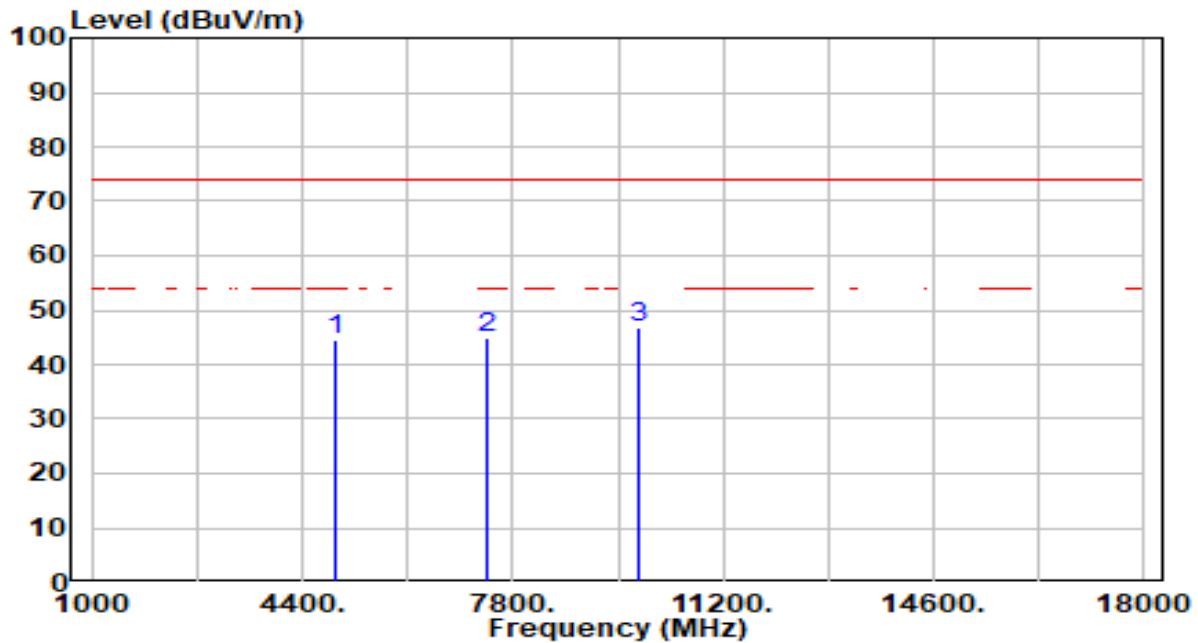


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	4924.000	48.65	0.49	49.14	-24.86	74.00	100	14	Peak
2		7386.000	39.82	5.64	45.46	-28.54	74.00	100	198	Peak
3		9848.000	41.63	5.39	47.02	-26.98	74.00	100	76	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

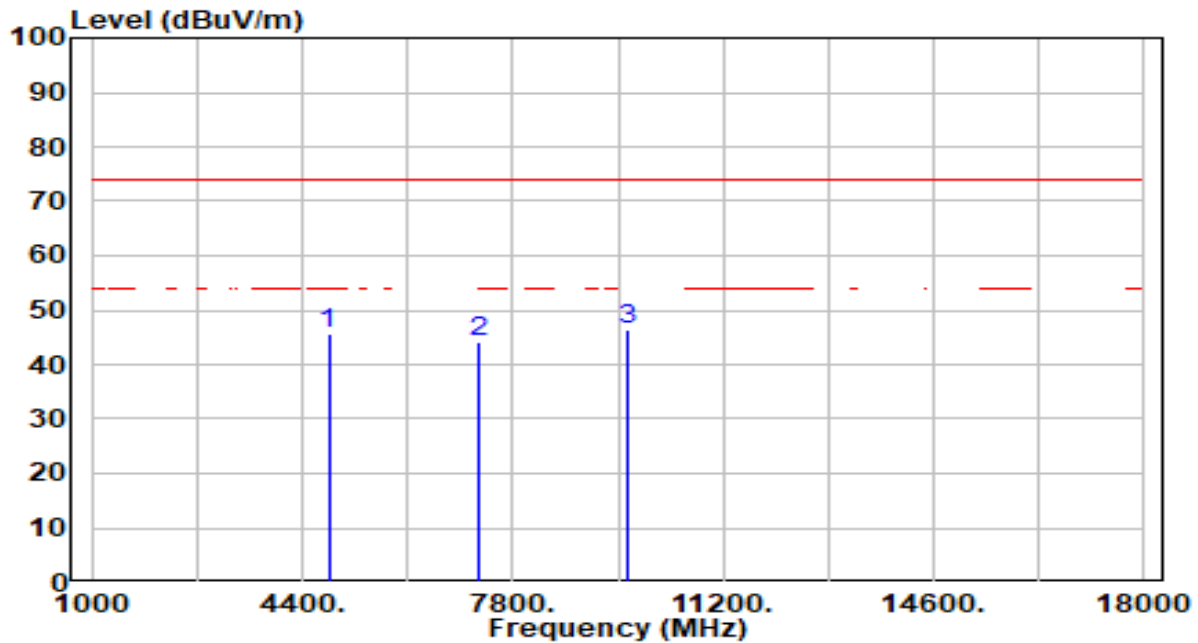


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	44.18	0.49	44.67	-29.33	74.00	100	231	Peak
2	7386.000	39.11	5.64	44.74	-29.26	74.00	100	64	Peak
3	* 9848.000	41.31	5.39	46.70	-27.30	74.00	100	360	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11g_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

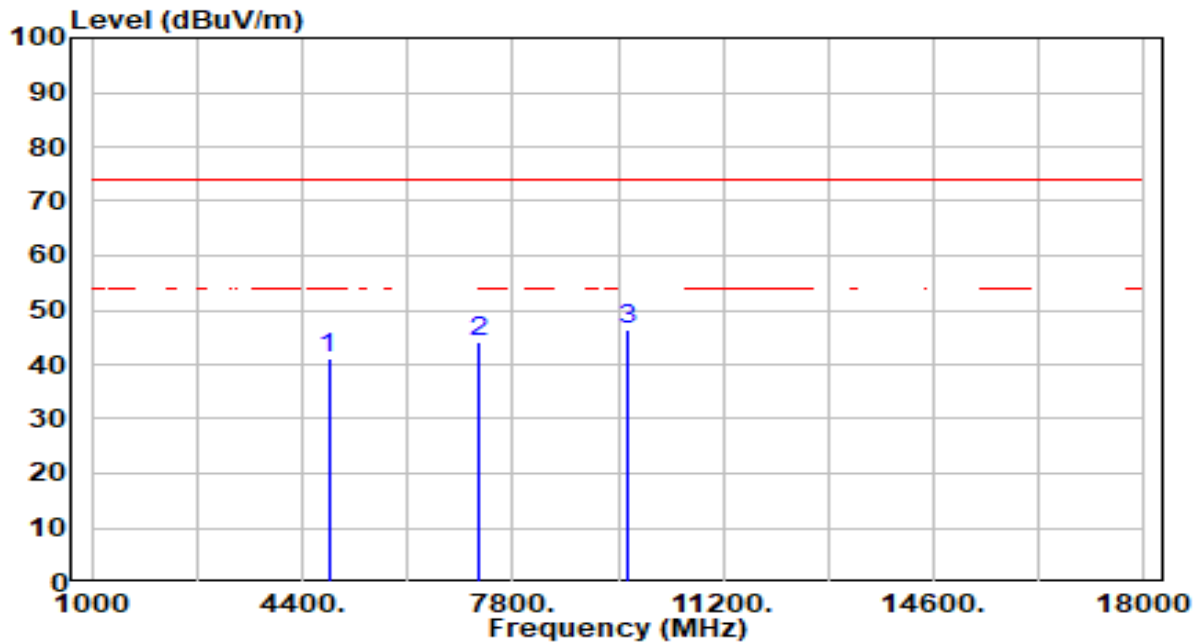


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	45.36	0.23	45.59	-28.41	74.00	100	252	Peak
2		7236.000	38.57	5.54	44.12	-29.88	74.00	100	232	Peak
3	*	9648.000	40.95	5.30	46.25	-27.75	74.00	100	319	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11g_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

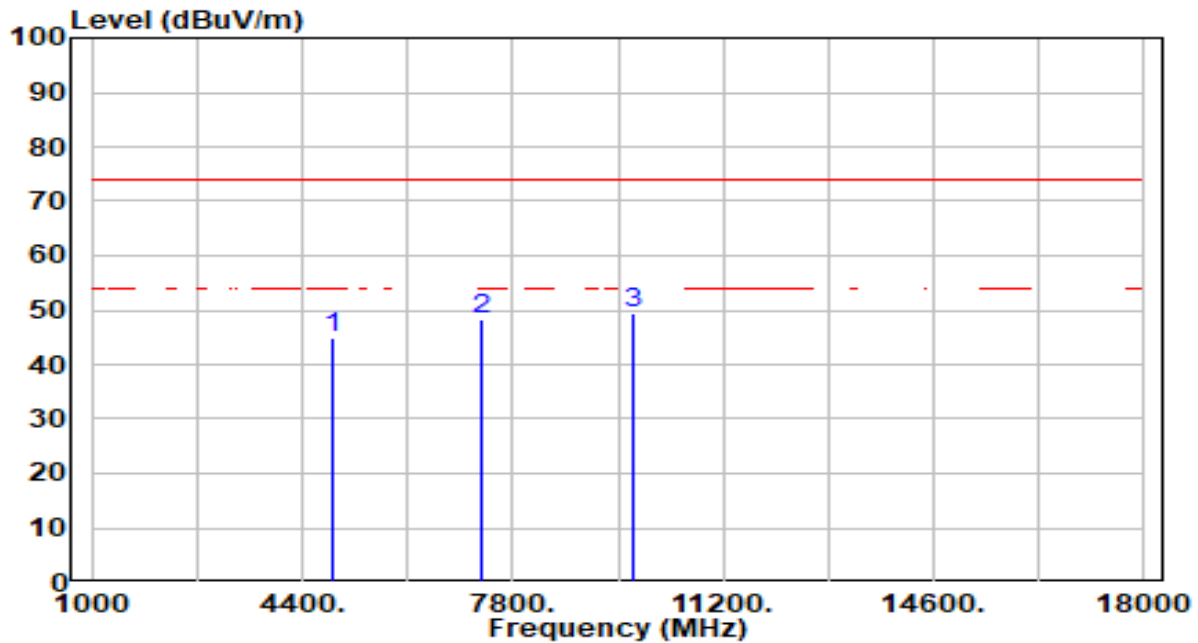


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.92	0.23	41.15	-32.85	74.00	100	236	Peak
2	7236.000	38.72	5.54	44.26	-29.74	74.00	100	205	Peak
3	* 9648.000	41.16	5.30	46.47	-27.53	74.00	100	326	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11g_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

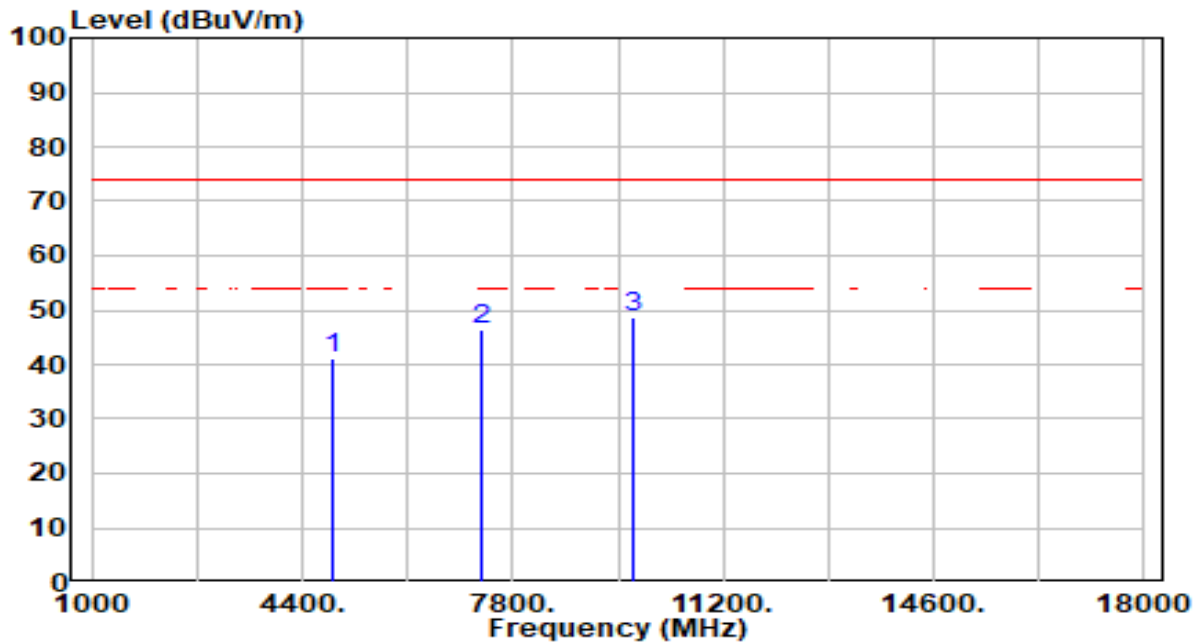


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	44.44	0.36	44.80	-29.20	74.00	100	360	Peak
2	7311.000	42.56	5.59	48.15	-25.85	74.00	100	138	Peak
3	* 9748.000	43.94	5.34	49.29	-24.71	74.00	100	243	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11g_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

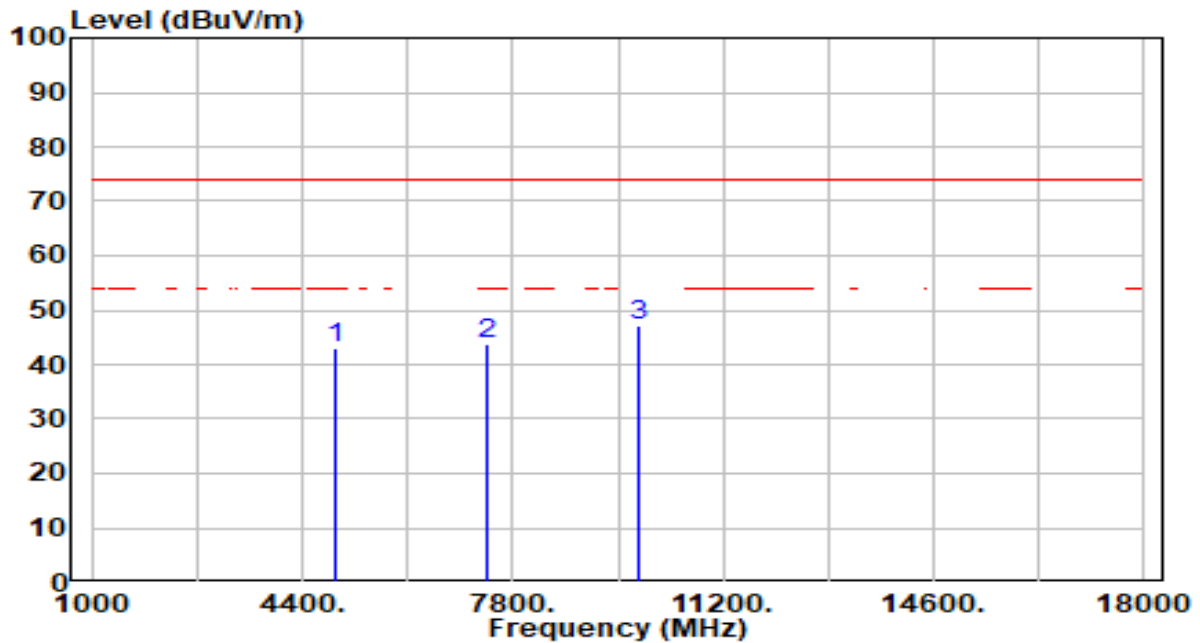


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	40.79	0.36	41.15	-32.85	74.00	100	234	Peak
2		7311.000	40.80	5.59	46.39	-27.61	74.00	100	61	Peak
3	*	9748.000	43.33	5.34	48.67	-25.33	74.00	100	250	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11g_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

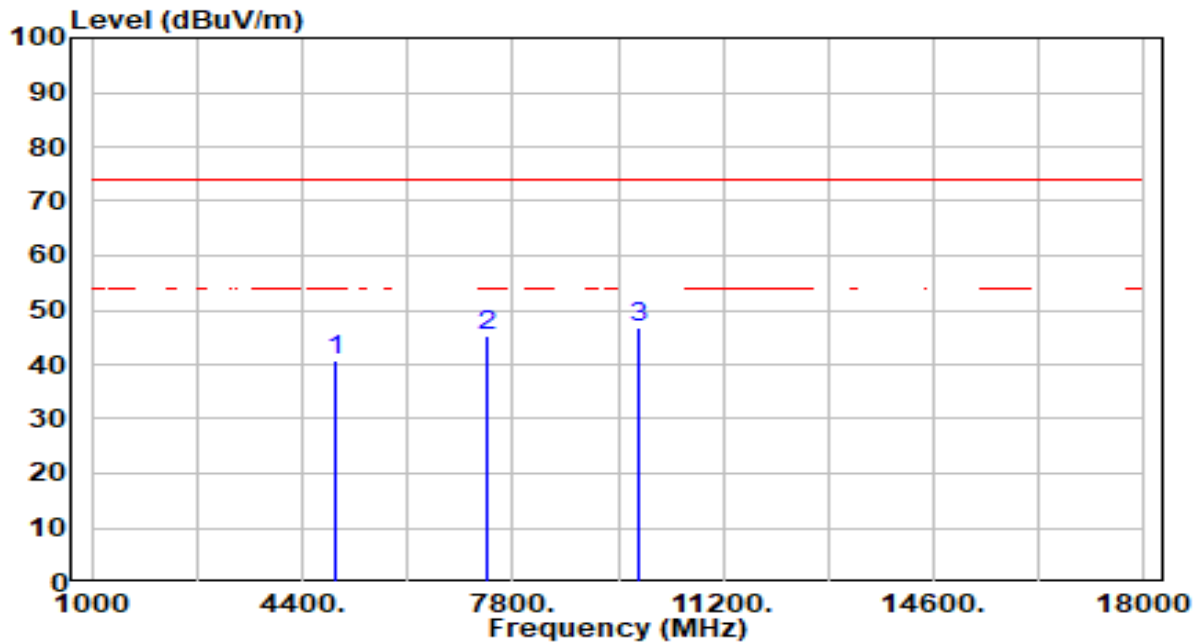


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	42.57	0.49	43.06	-30.94	74.00	100	89	Peak
2	7386.000	38.32	5.64	43.96	-30.04	74.00	100	1	Peak
3	* 9848.000	41.94	5.39	47.32	-26.68	74.00	100	0	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11g_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

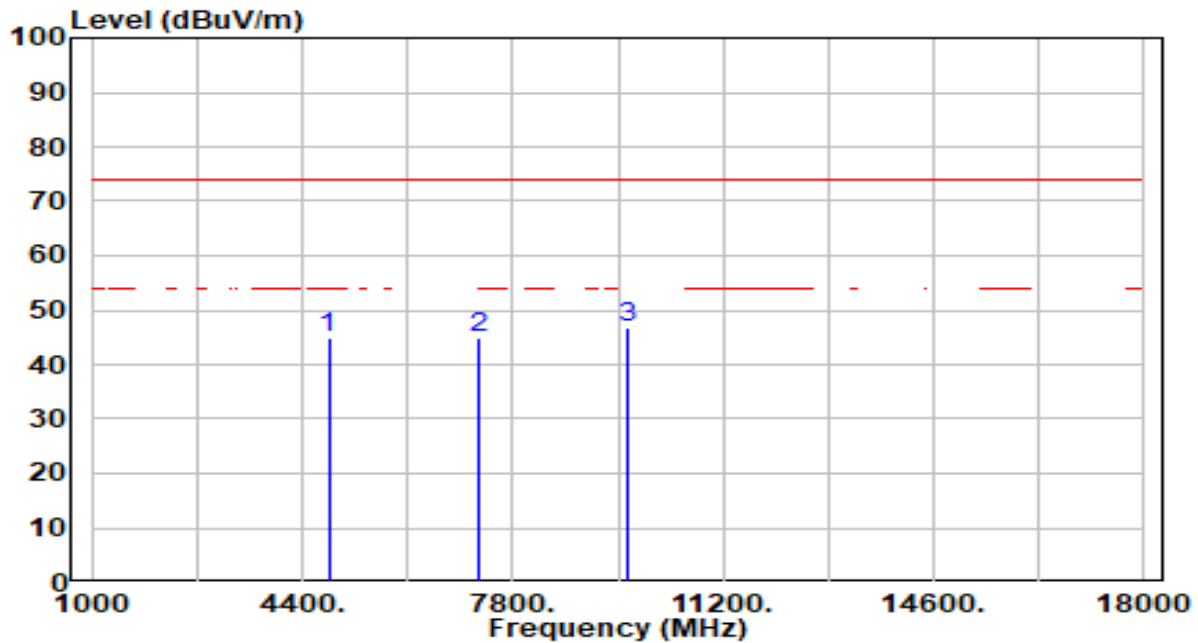


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	40.40	0.49	40.90	-33.10	74.00	100	32	Peak
2	7386.000	39.49	5.64	45.13	-28.87	74.00	100	231	Peak
3	* 9848.000	41.37	5.39	46.75	-27.25	74.00	100	298	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

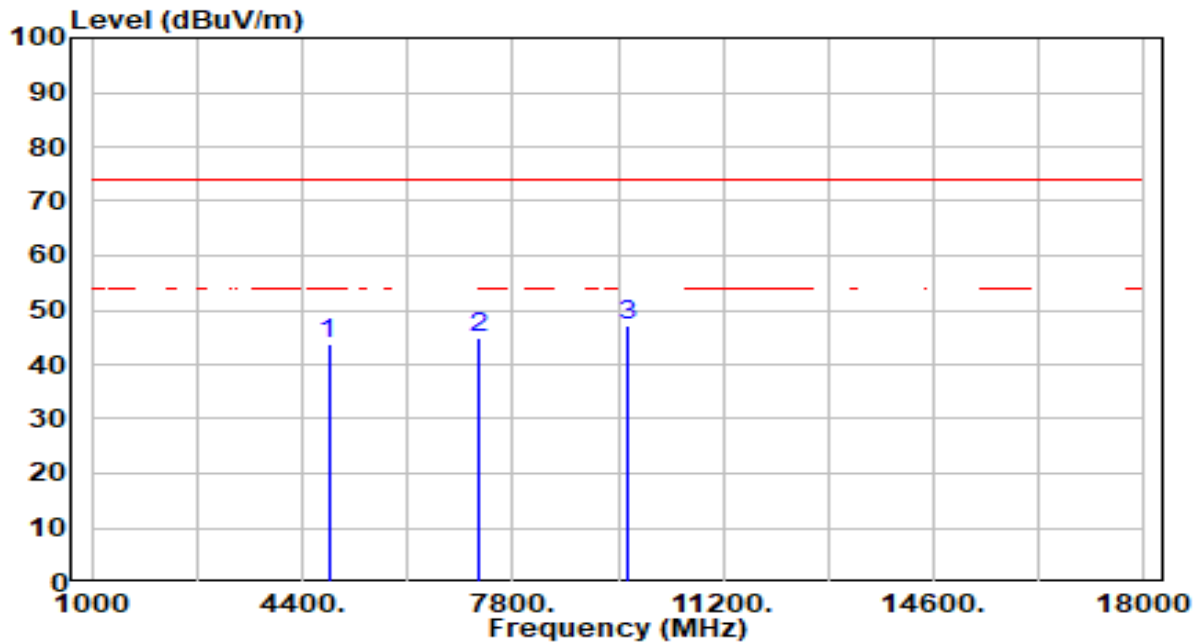


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	44.53	0.23	44.76	-29.24	74.00	100	79	Peak
2	7236.000	39.18	5.54	44.73	-29.27	74.00	100	320	Peak
3	* 9648.000	41.62	5.30	46.92	-27.08	74.00	100	62	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

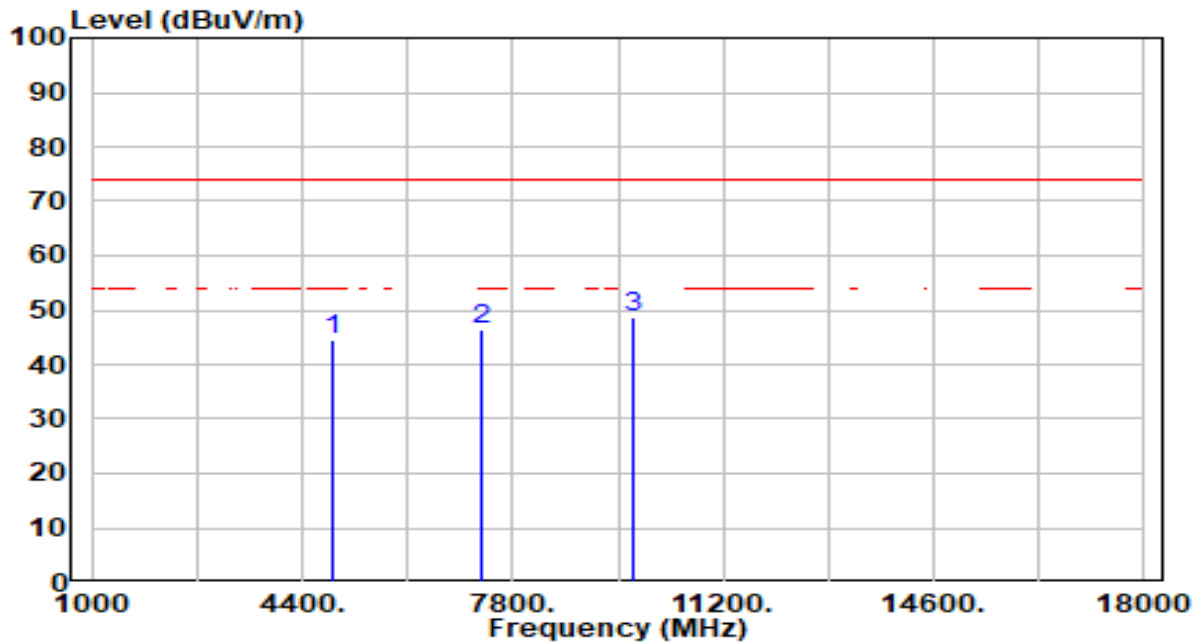


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	43.51	0.23	43.74	-30.26	74.00	100	227	Peak
2	7236.000	39.40	5.54	44.95	-29.05	74.00	100	128	Peak
3	* 9648.000	41.72	5.30	47.02	-26.98	74.00	100	3	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

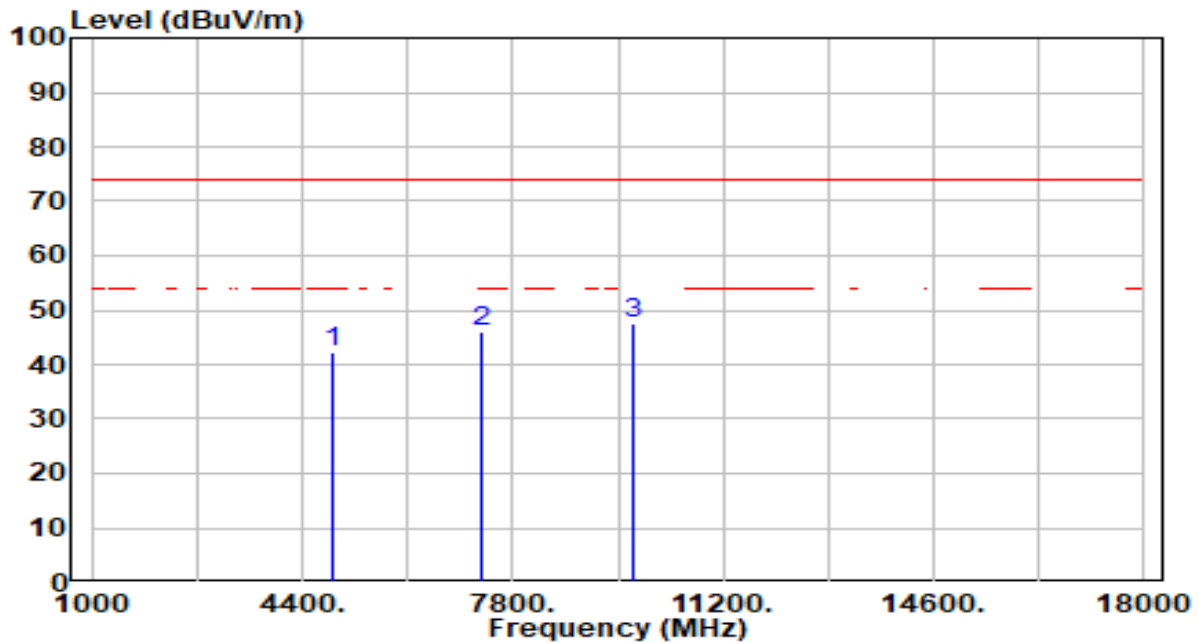


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	44.19	0.36	44.56	-29.44	74.00	100	195	Peak
2	7311.000	40.95	5.59	46.54	-27.46	74.00	100	28	Peak
3	* 9748.000	43.24	5.34	48.59	-25.41	74.00	100	283	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

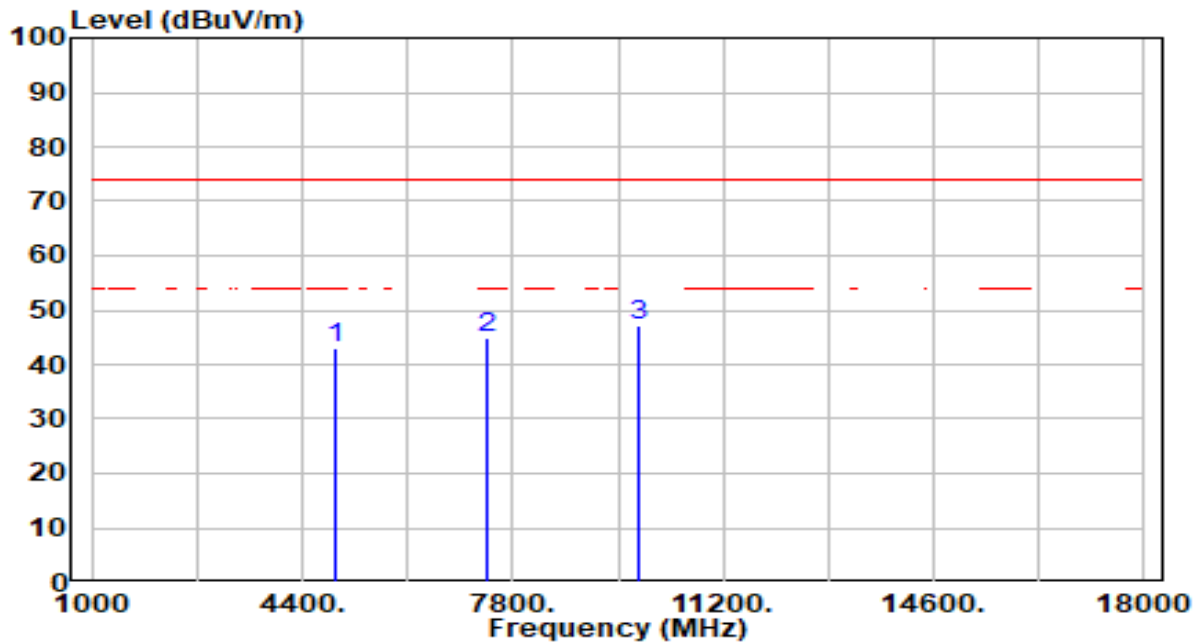


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	41.82	0.36	42.18	-31.82	74.00	100	221	Peak
2	7311.000	40.58	5.59	46.17	-27.83	74.00	100	202	Peak
3	* 9748.000	42.13	5.34	47.47	-26.53	74.00	100	295	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

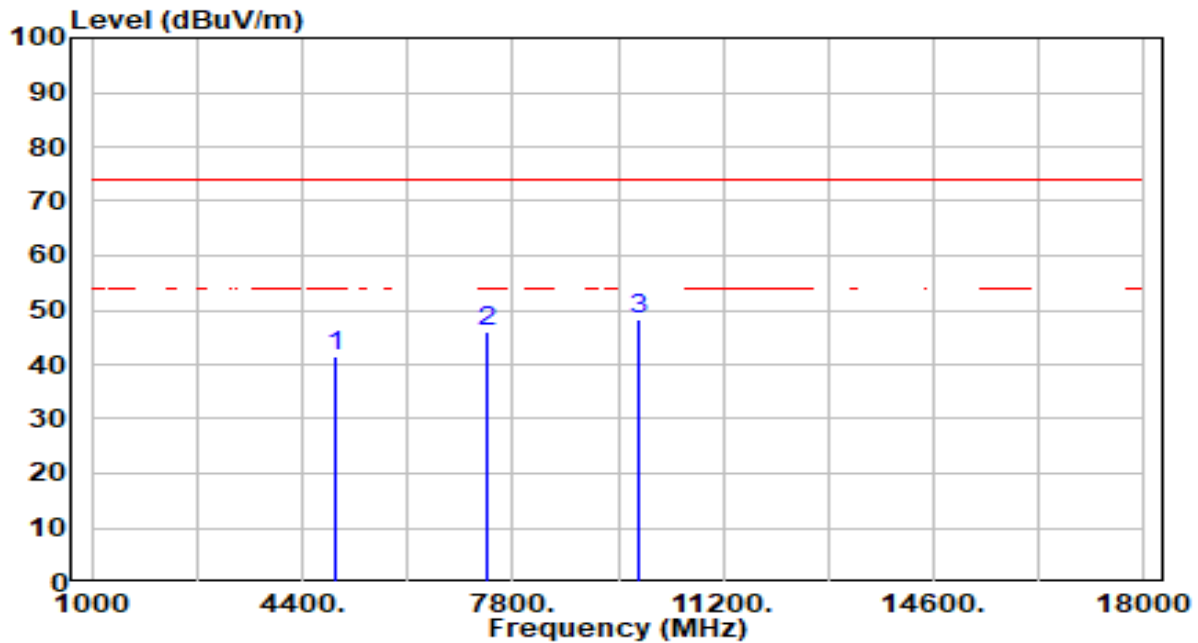


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	42.65	0.49	43.14	-30.86	74.00	100	183	Peak
2	7386.000	39.16	5.64	44.79	-29.21	74.00	100	62	Peak
3	* 9848.000	41.63	5.39	47.02	-26.98	74.00	100	104	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-20MHz_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

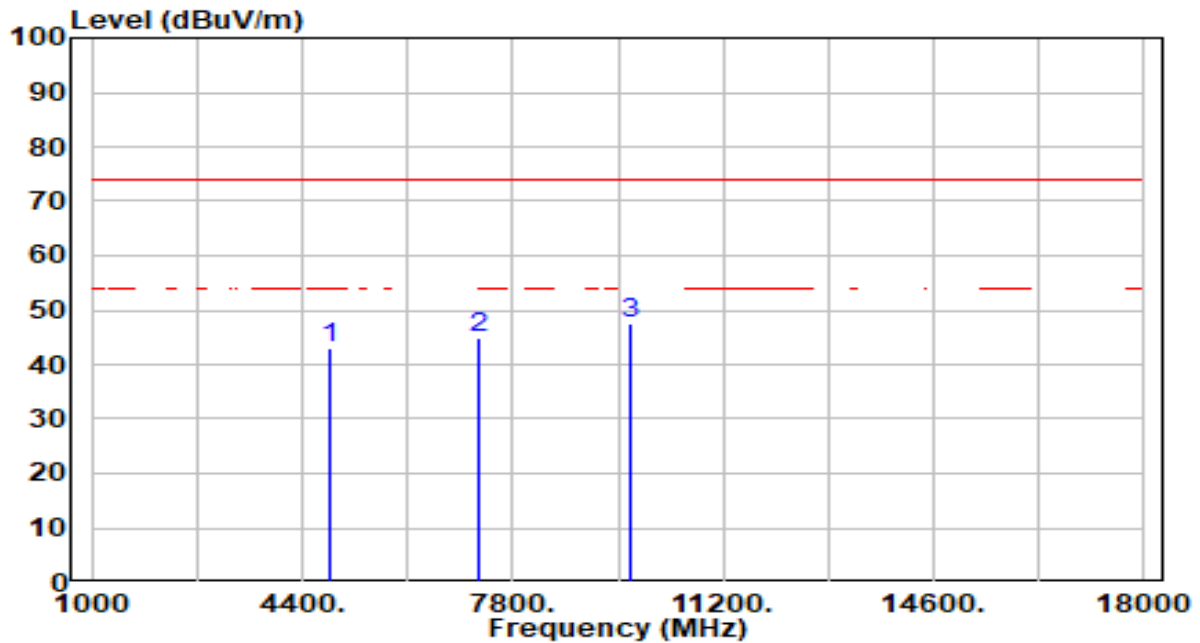


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	41.17	0.49	41.66	-32.34	74.00	100	60	Peak
2	7386.000	40.46	5.64	46.10	-27.90	74.00	100	40	Peak
3	* 9848.000	42.91	5.39	48.30	-25.70	74.00	100	270	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-40MHz_TX_CH 3 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

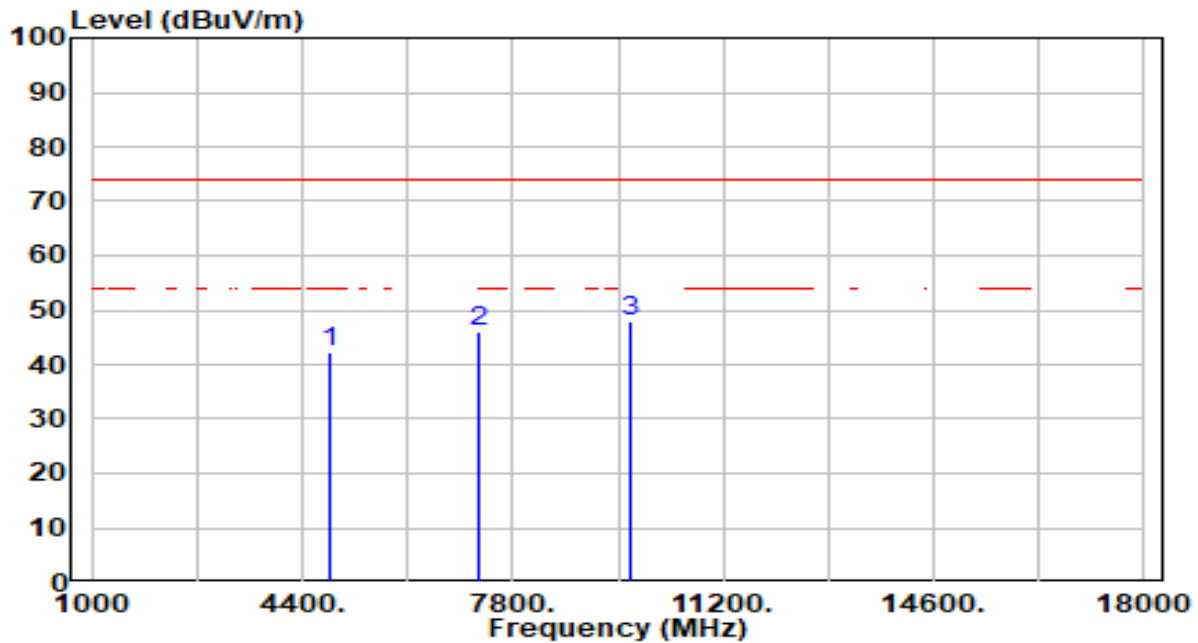


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	42.58	0.28	42.86	-31.14	74.00	100	277	Peak
2	7266.000	39.24	5.56	44.80	-29.20	74.00	100	178	Peak
3	* 9688.000	42.09	5.32	47.41	-26.59	74.00	100	57	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-40MHz_TX_CH 3 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

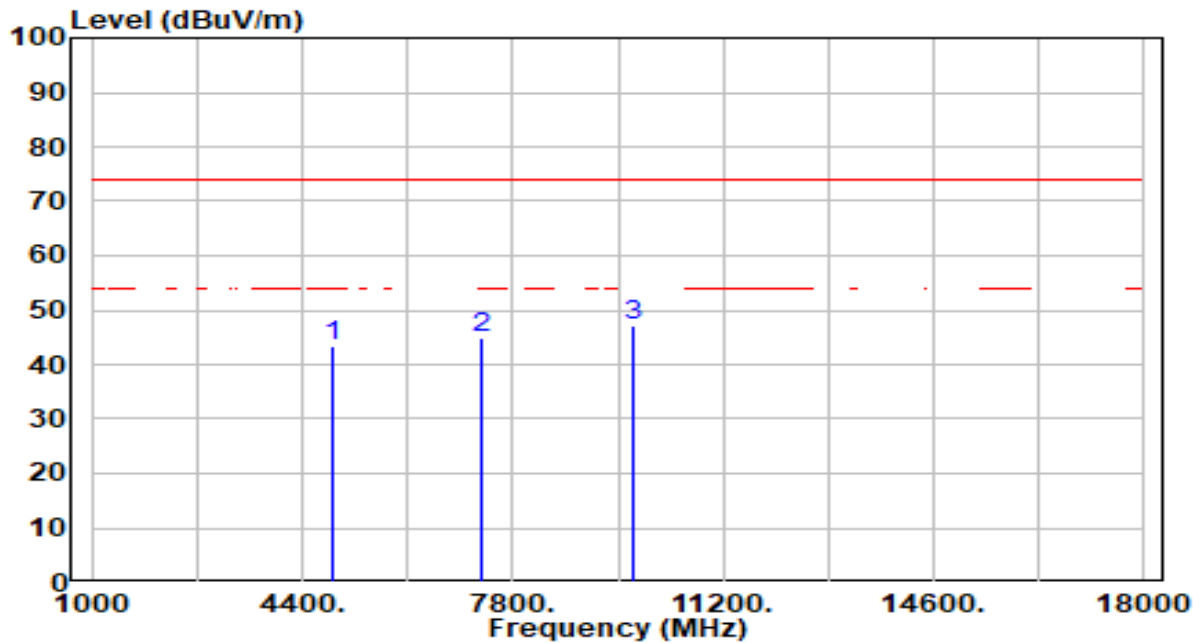


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4844.000	41.90	0.28	42.19	-31.81	74.00	100	227	Peak
2		7266.000	40.44	5.56	46.00	-28.00	74.00	100	0	Peak
3	*	9688.000	42.47	5.32	47.79	-26.21	74.00	100	349	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-40MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

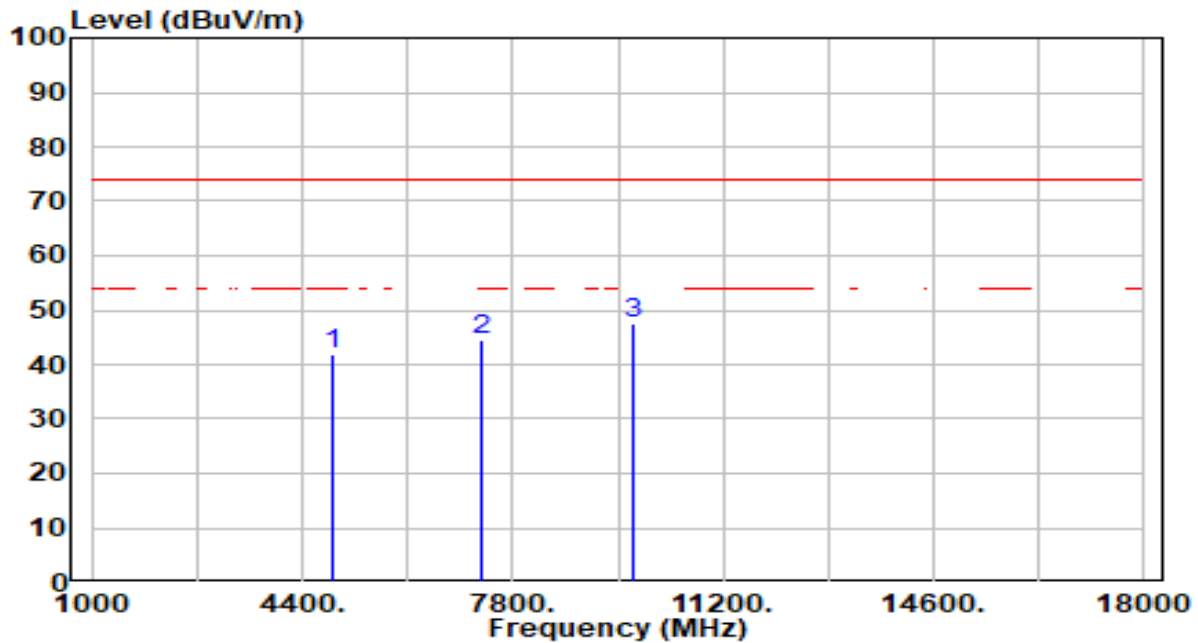


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	43.06	0.36	43.42	-30.58	74.00	100	261	Peak
2	7311.000	39.17	5.59	44.76	-29.24	74.00	100	138	Peak
3	* 9748.000	41.94	5.34	47.28	-26.72	74.00	100	204	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-40MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

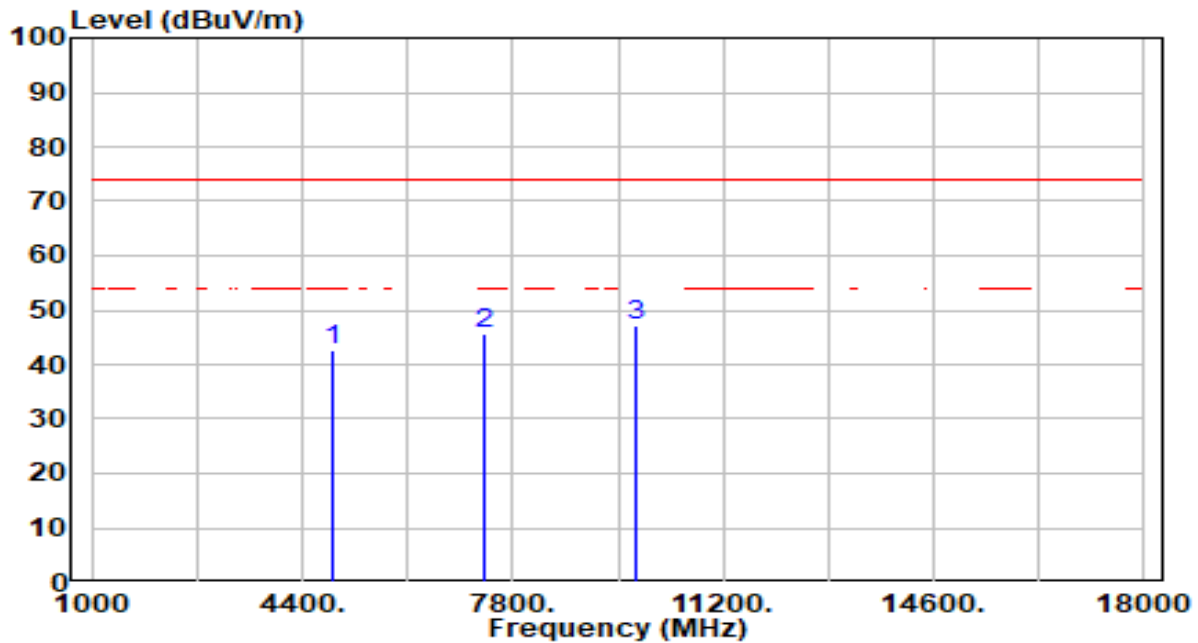


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	41.65	0.36	42.01	-31.99	74.00	100	224	Peak
2	7311.000	39.03	5.59	44.62	-29.38	74.00	100	167	Peak
3	* 9748.000	42.14	5.34	47.48	-26.52	74.00	100	267	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-40MHz_TX_CH 9 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

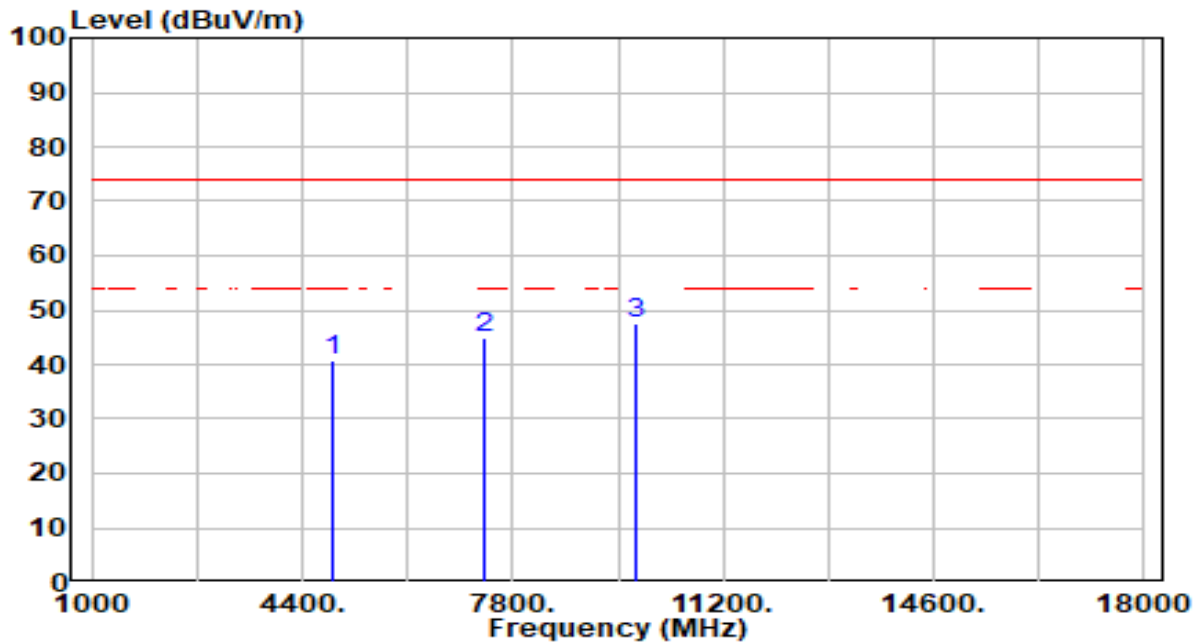


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	42.19	0.44	42.64	-31.36	74.00	100	0	Peak
2	7356.000	39.96	5.62	45.57	-28.43	74.00	100	48	Peak
3	* 9808.000	41.64	5.37	47.01	-26.99	74.00	100	154	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11n-40MHz_TX_CH 9 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

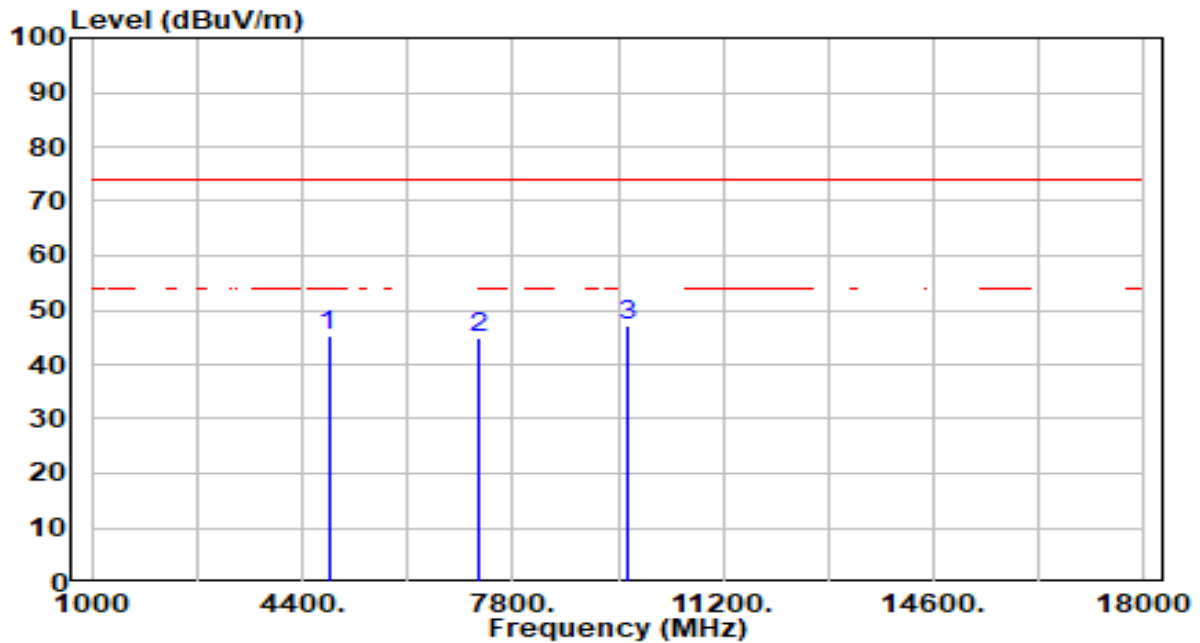


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	40.30	0.44	40.74	-33.26	74.00	100	239	Peak
2	7356.000	39.34	5.62	44.95	-29.05	74.00	100	298	Peak
3	* 9808.000	42.00	5.37	47.37	-26.63	74.00	100	335	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-20MHz_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

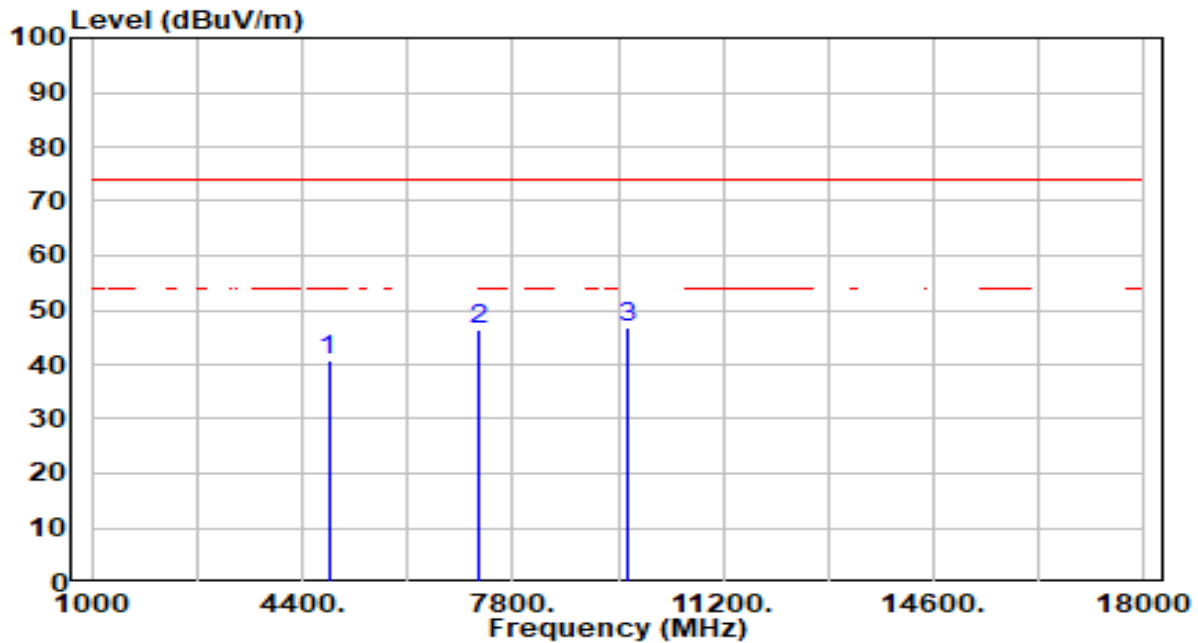


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	45.09	0.23	45.32	-28.68	74.00	100	8	Peak
2	7236.000	39.27	5.54	44.82	-29.18	74.00	100	272	Peak
3	* 9648.000	41.72	5.30	47.02	-26.98	74.00	100	0	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-20MHz_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

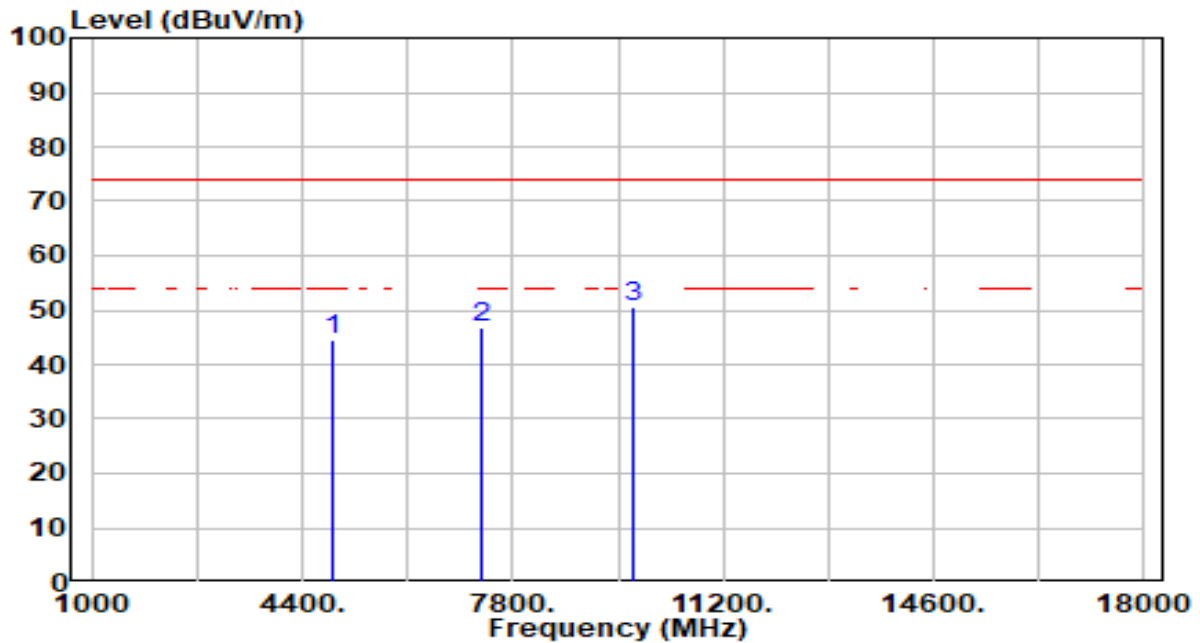


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	40.69	0.23	40.92	-33.08	74.00	100	344	Peak
2	7236.000	40.68	5.54	46.23	-27.77	74.00	100	208	Peak
3	* 9648.000	41.67	5.30	46.98	-27.02	74.00	100	233	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-20MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

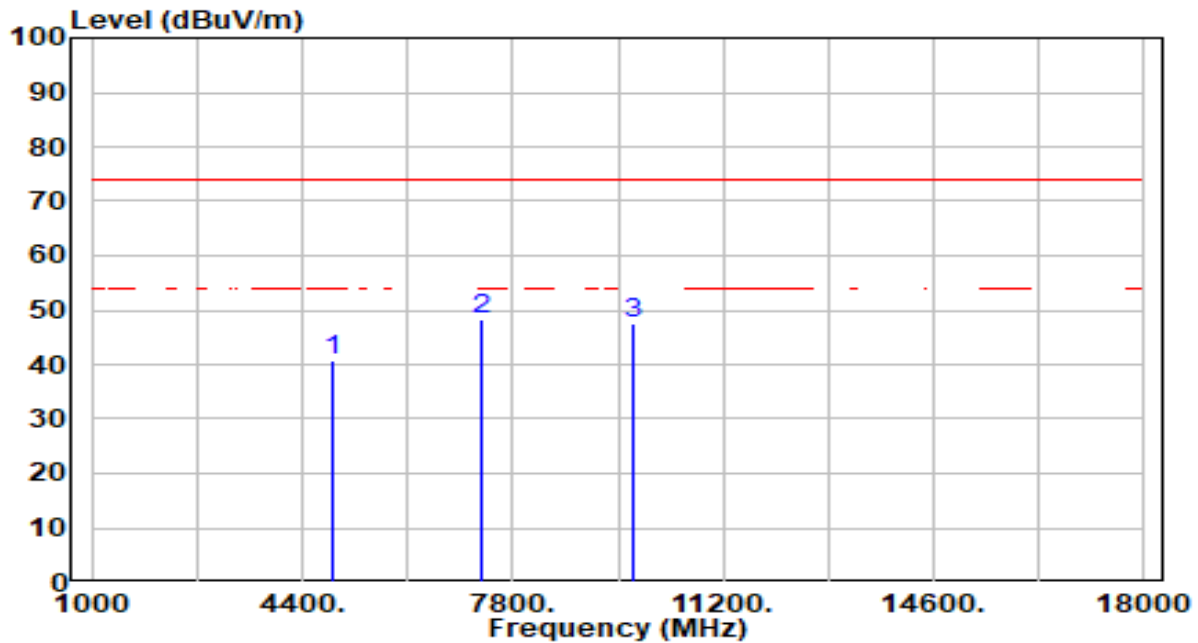


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	43.99	0.36	44.36	-29.64	74.00	100	85	Peak
2	7311.000	41.33	5.59	46.92	-27.08	74.00	100	138	Peak
3	* 9748.000	45.11	5.34	50.45	-23.55	74.00	100	280	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-20MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

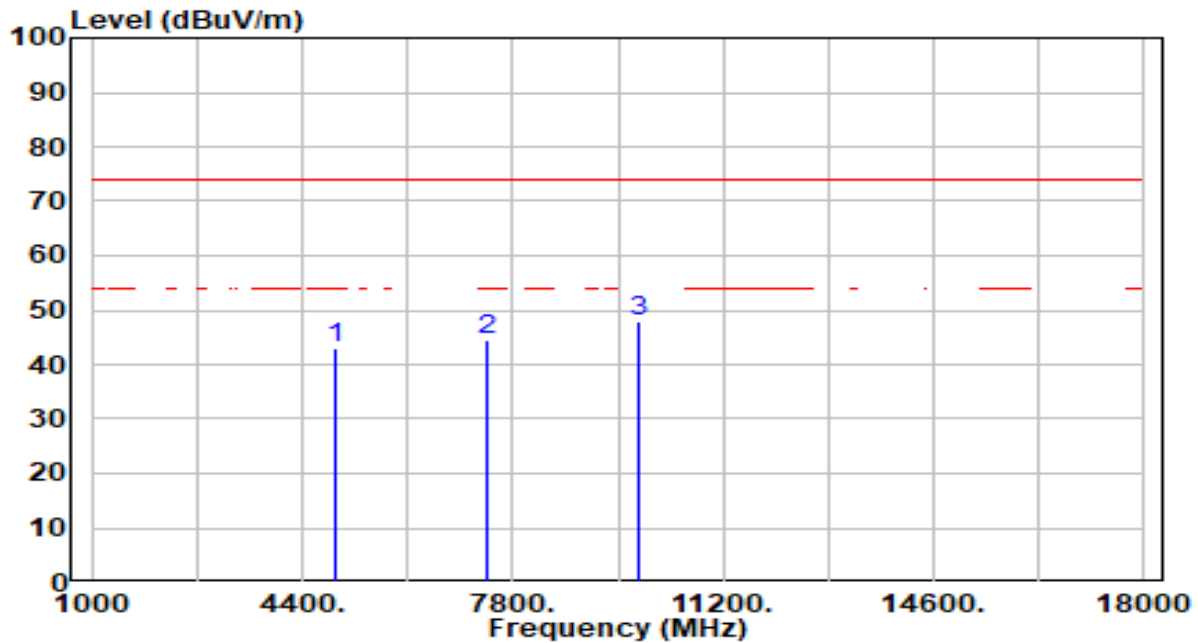


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4874.000	40.50	0.36	40.86	-33.14	74.00	100	225	Peak
2	*	7311.000	42.68	5.59	48.27	-25.73	74.00	100	55	Peak
3		9748.000	42.10	5.34	47.44	-26.56	74.00	100	211	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-20MHz_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

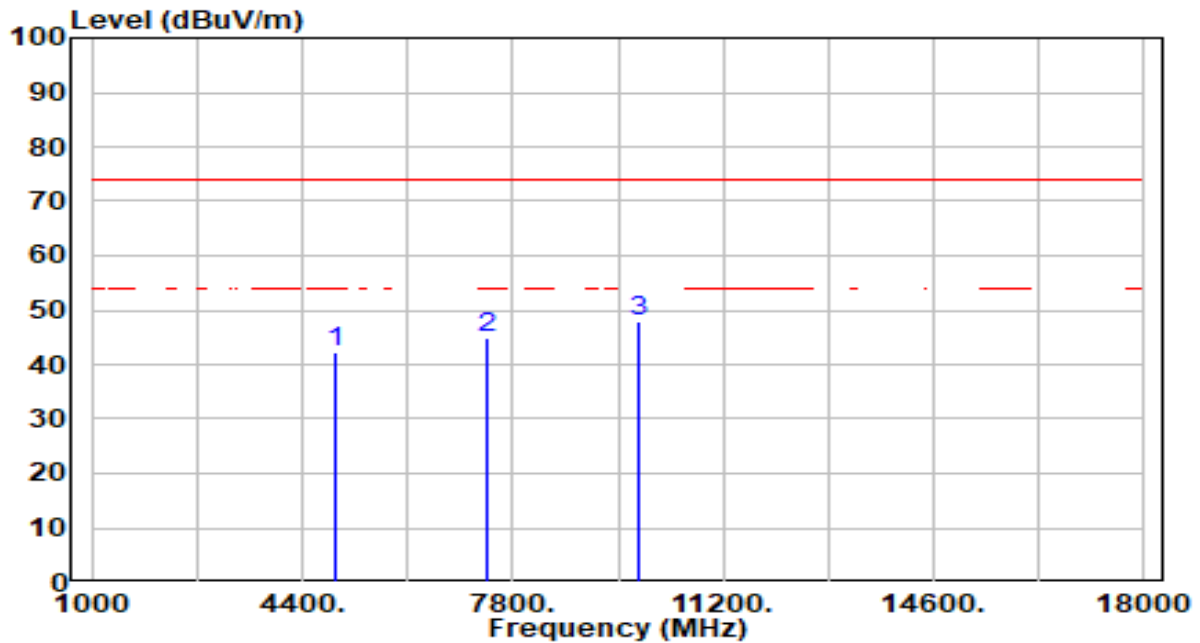


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	42.54	0.49	43.03	-30.97	74.00	100	182	Peak
2	7386.000	38.88	5.64	44.52	-29.48	74.00	100	225	Peak
3	* 9848.000	42.37	5.39	47.76	-26.24	74.00	100	225	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-20MHz_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

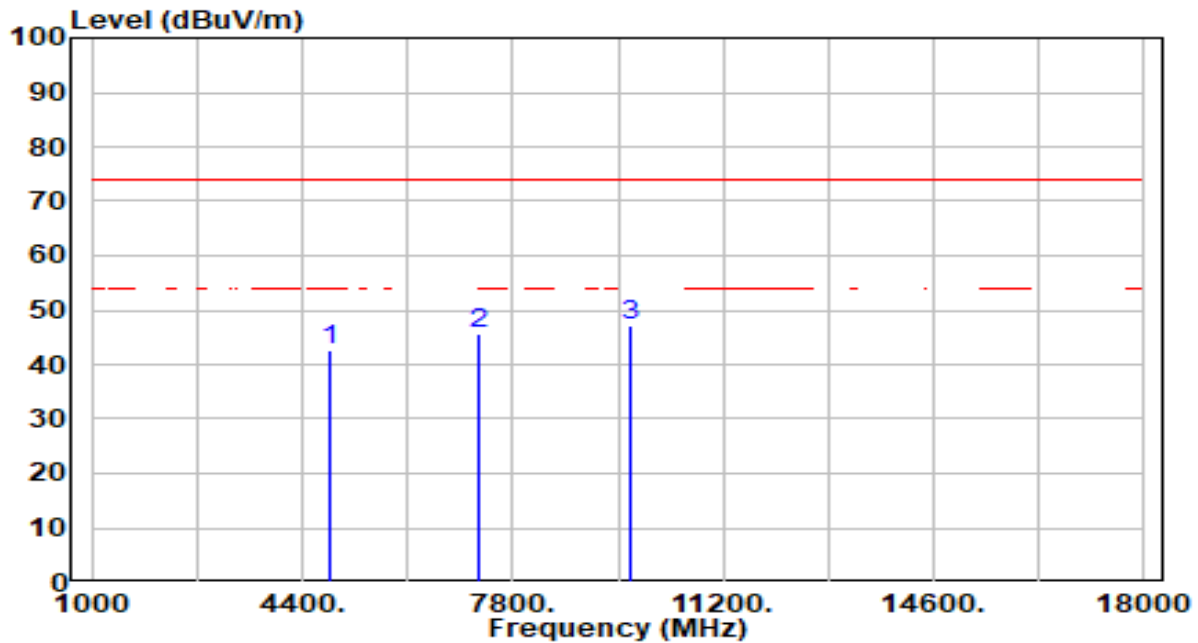


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	41.86	0.49	42.36	-31.64	74.00	100	227	Peak
2	7386.000	39.21	5.64	44.85	-29.15	74.00	100	360	Peak
3	* 9848.000	42.38	5.39	47.77	-26.23	74.00	100	295	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-40MHz_TX_CH 3 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

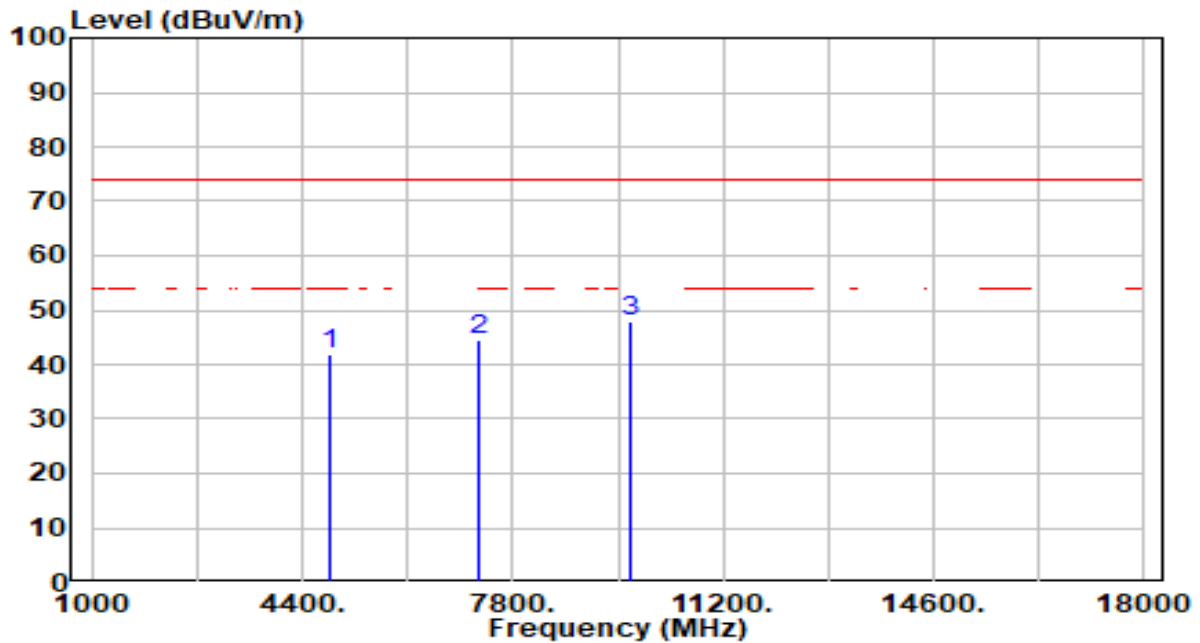


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	42.49	0.28	42.77	-31.23	74.00	100	328	Peak
2	7266.000	39.98	5.56	45.54	-28.46	74.00	100	360	Peak
3	* 9688.000	41.95	5.32	47.27	-26.73	74.00	100	232	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-40MHz_TX_CH 3 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

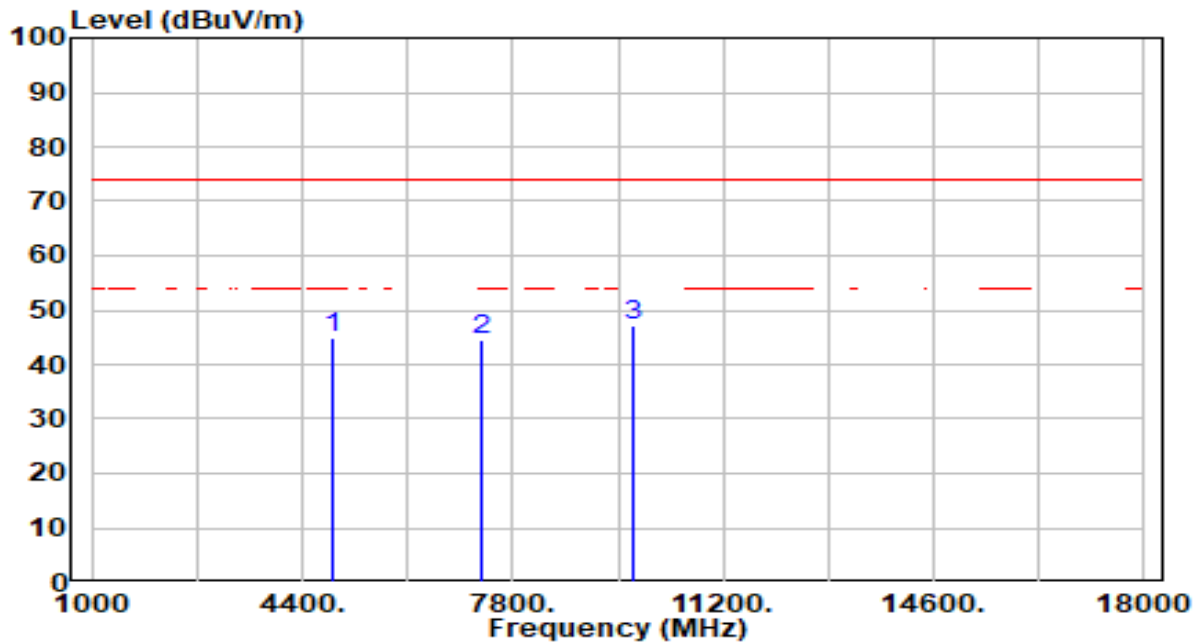


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	41.53	0.28	41.81	-32.19	74.00	100	230	Peak
2	7266.000	39.09	5.56	44.66	-29.34	74.00	0	0	Peak
3	* 9688.000	42.50	5.32	47.82	-26.18	74.00	100	190	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-40MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

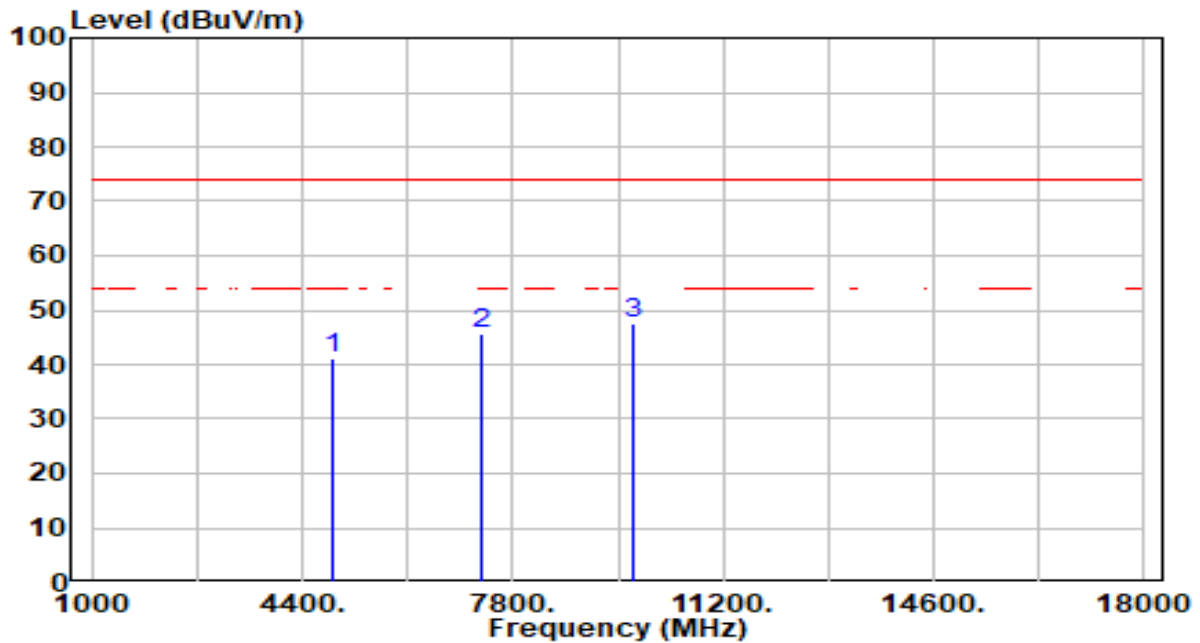


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	44.37	0.36	44.73	-29.27	74.00	100	235	Peak
2	7311.000	38.92	5.59	44.51	-29.49	74.00	100	122	Peak
3	* 9748.000	41.89	5.34	47.23	-26.77	74.00	100	60	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-40MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

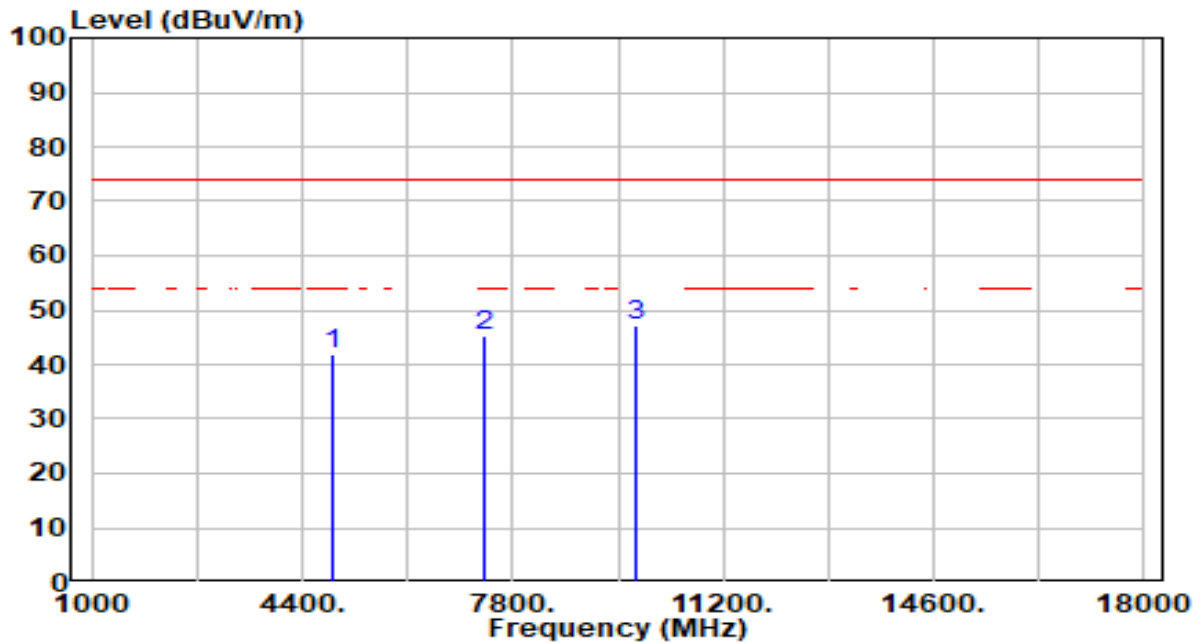


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.91	0.36	41.27	-32.73	74.00	100	52	Peak
2	7311.000	40.16	5.59	45.75	-28.25	74.00	100	94	Peak
3	* 9748.000	42.26	5.34	47.60	-26.40	74.00	100	0	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-40MHz_TX_CH 9 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

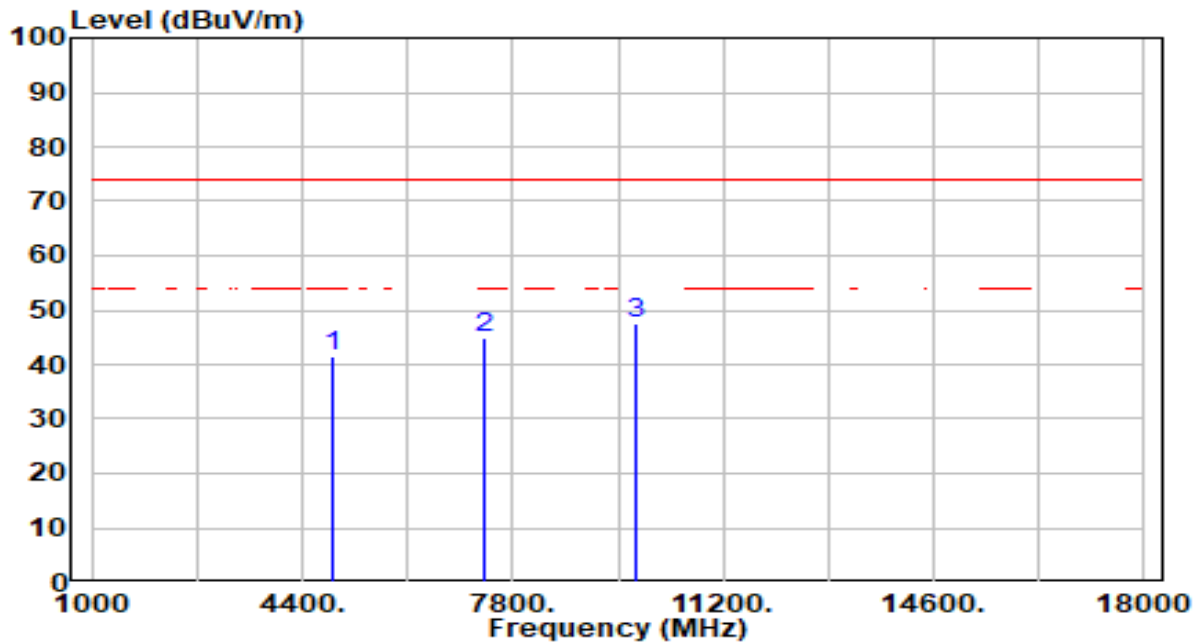


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	41.56	0.44	42.00	-32.00	74.00	100	360	Peak
2	7356.000	39.78	5.62	45.40	-28.60	74.00	100	25	Peak
3	* 9808.000	41.84	5.37	47.21	-26.79	74.00	100	0	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11ax-40MHz_TX_CH 9 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

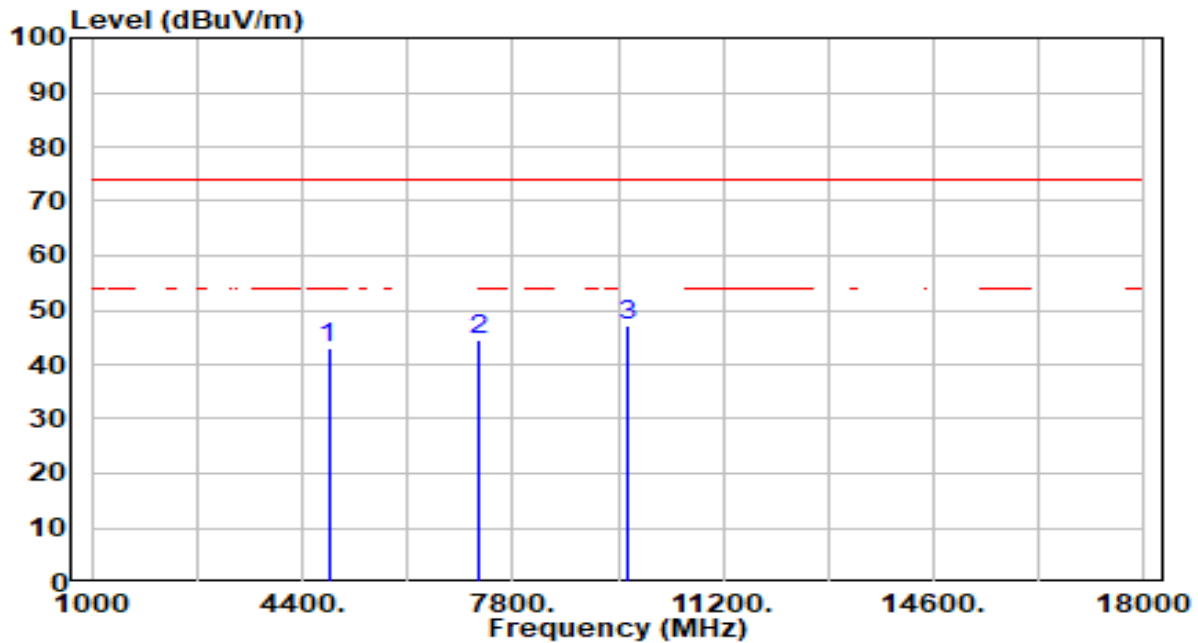


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	41.08	0.44	41.52	-32.48	74.00	100	49	Peak
2	7356.000	39.31	5.62	44.93	-29.07	74.00	100	264	Peak
3	* 9808.000	42.18	5.37	47.55	-26.45	74.00	100	94	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-20MHz_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

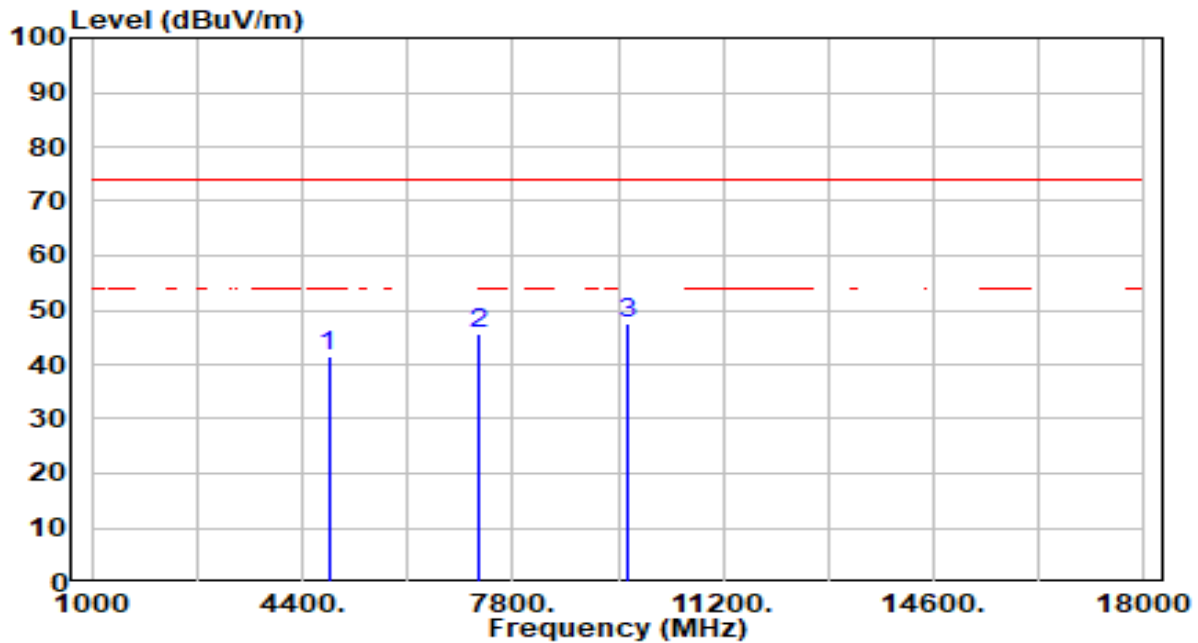


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	42.68	0.23	42.92	-31.08	74.00	100	224	Peak
2	7236.000	38.92	5.54	44.46	-29.54	74.00	100	259	Peak
3	* 9648.000	41.76	5.30	47.06	-26.94	74.00	100	82	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-20MHz_TX_CH 1 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

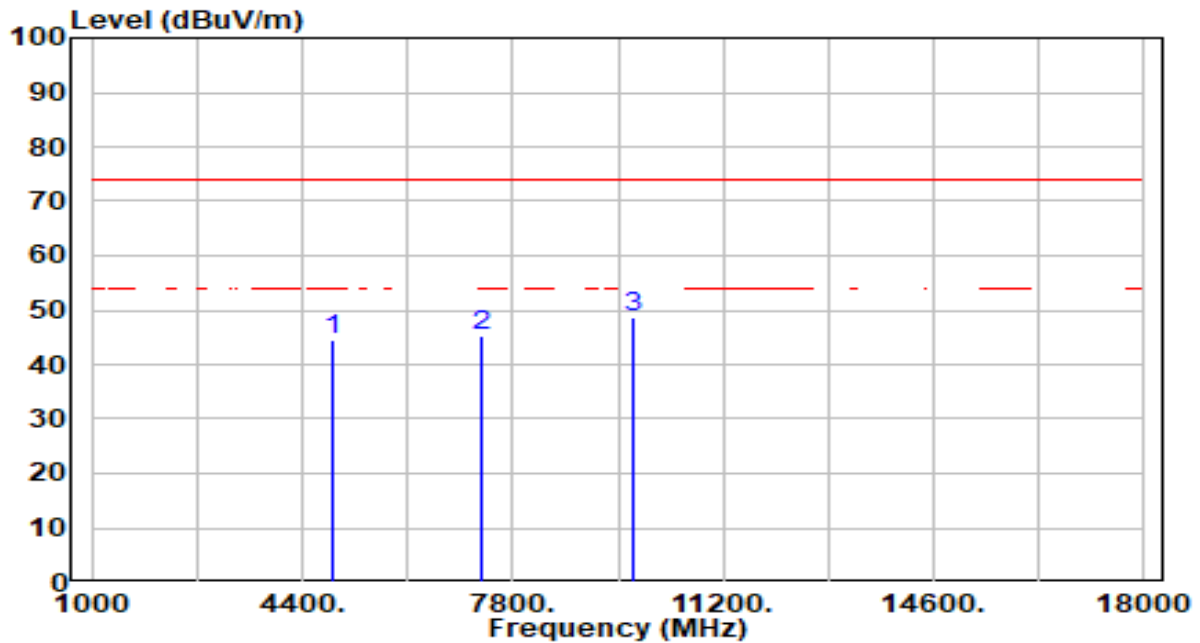


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	41.24	0.23	41.47	-32.53	74.00	100	3	Peak
2	7236.000	40.18	5.54	45.72	-28.28	74.00	100	153	Peak
3	* 9648.000	42.26	5.30	47.56	-26.44	74.00	100	85	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-20MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

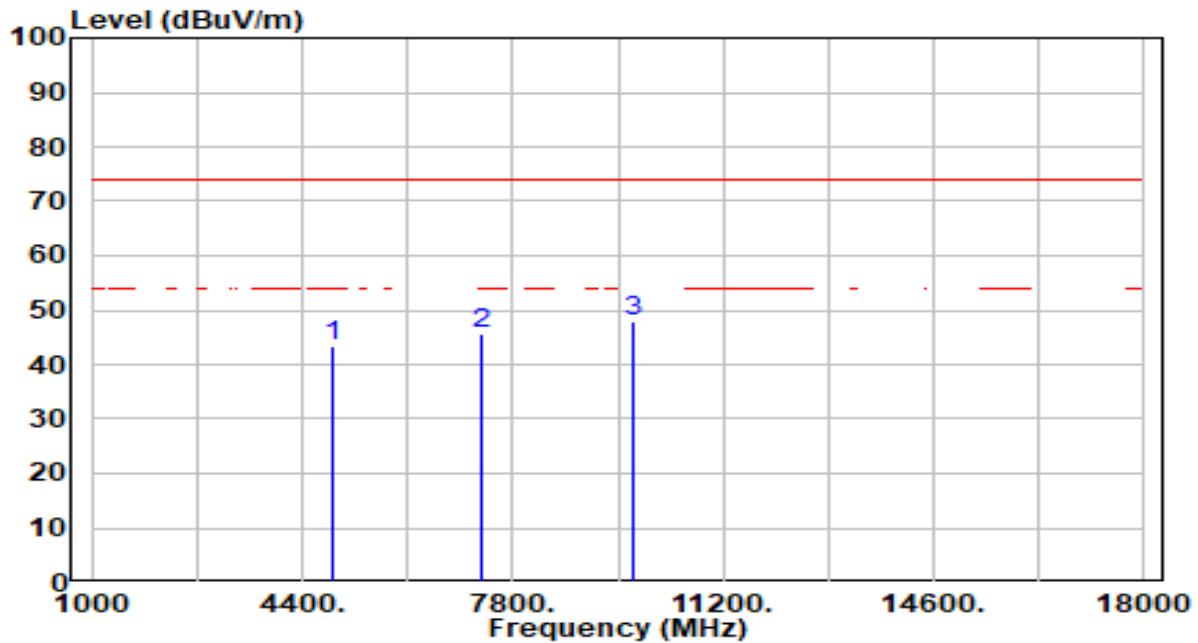


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	44.28	0.36	44.64	-29.36	74.00	100	360	Peak
2	7311.000	39.57	5.59	45.16	-28.84	74.00	100	148	Peak
3	* 9748.000	43.15	5.34	48.49	-25.51	74.00	100	236	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-20MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

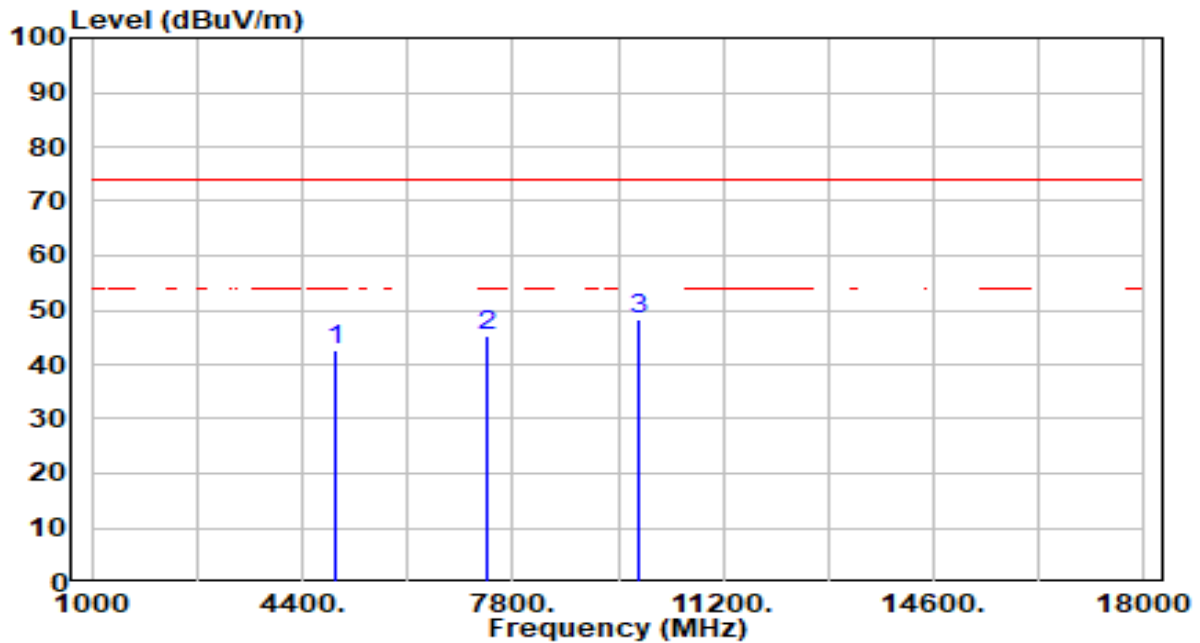


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	43.19	0.36	43.56	-30.44	74.00	100	233	Peak
2	7311.000	40.19	5.59	45.78	-28.22	74.00	100	241	Peak
3	* 9748.000	42.52	5.34	47.87	-26.13	74.00	100	241	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-20MHz_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

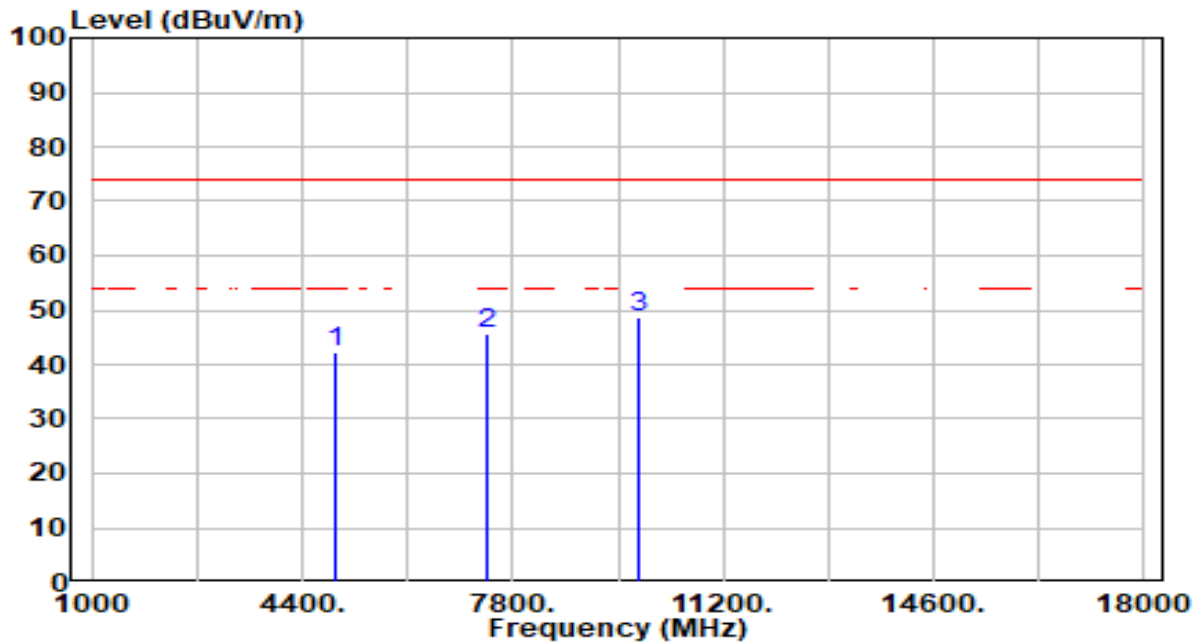


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	42.18	0.49	42.68	-31.32	74.00	100	241	Peak
2	7386.000	39.52	5.64	45.15	-28.85	74.00	100	309	Peak
3	* 9848.000	42.82	5.39	48.21	-25.79	74.00	100	82	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-20MHz_TX_CH 11 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

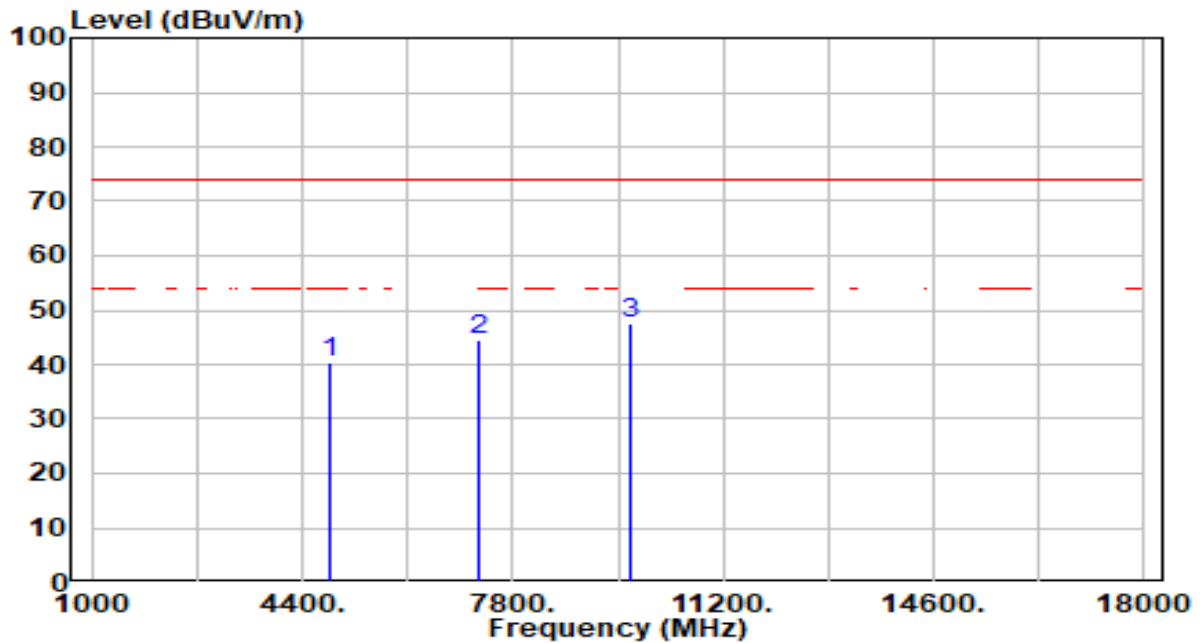


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4924.000	41.69	0.49	42.19	-31.81	74.00	100	360	Peak
2	7386.000	40.06	5.64	45.69	-28.31	74.00	100	309	Peak
3	* 9848.000	43.18	5.39	48.57	-25.43	74.00	100	281	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-40MHz_TX_CH 3 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

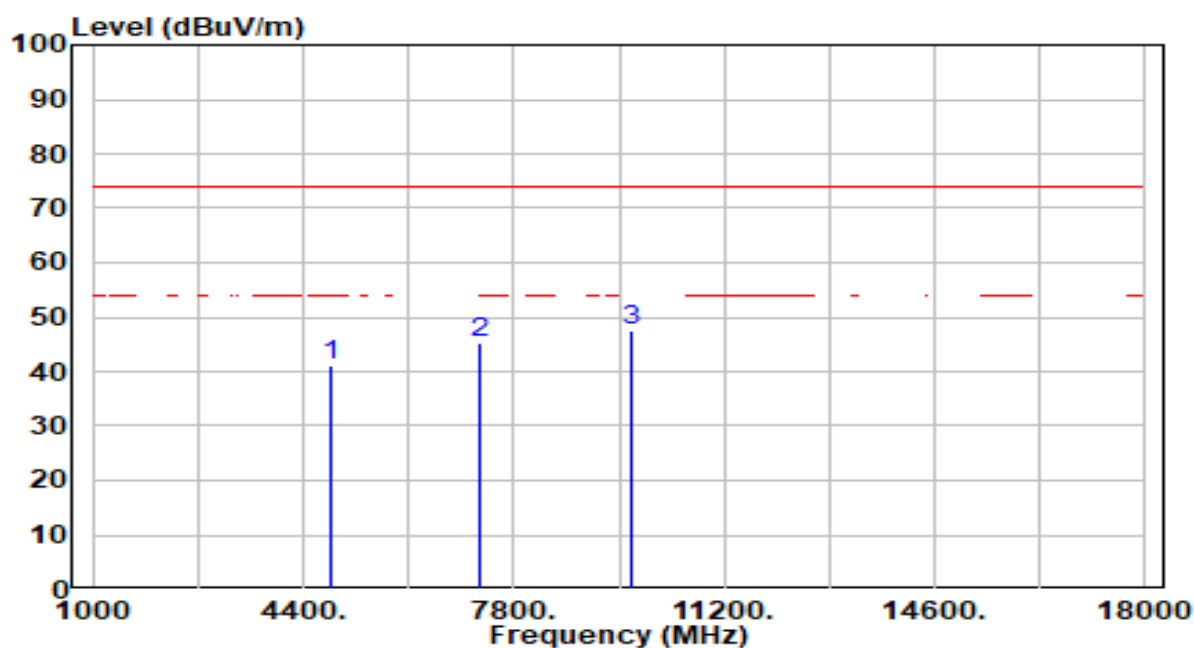


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	40.18	0.28	40.47	-33.53	74.00	100	187	Peak
2	7266.000	38.91	5.56	44.48	-29.52	74.00	100	116	Peak
3	* 9688.000	42.30	5.32	47.62	-26.38	74.00	100	178	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-40MHz_TX_CH 3 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

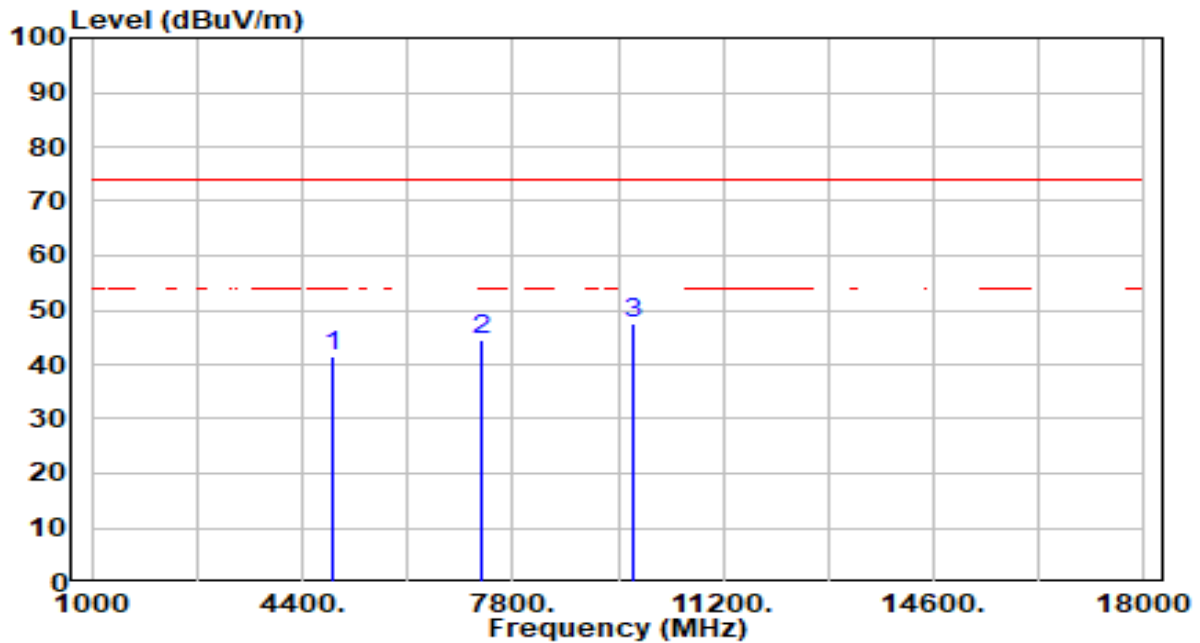


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4844.000	40.67	0.28	40.95	-33.05	74.00	100	360	Peak
2	7266.000	39.59	5.56	45.15	-28.85	74.00	100	102	Peak
3	* 9688.000	42.26	5.32	47.58	-26.42	74.00	100	167	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-40MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

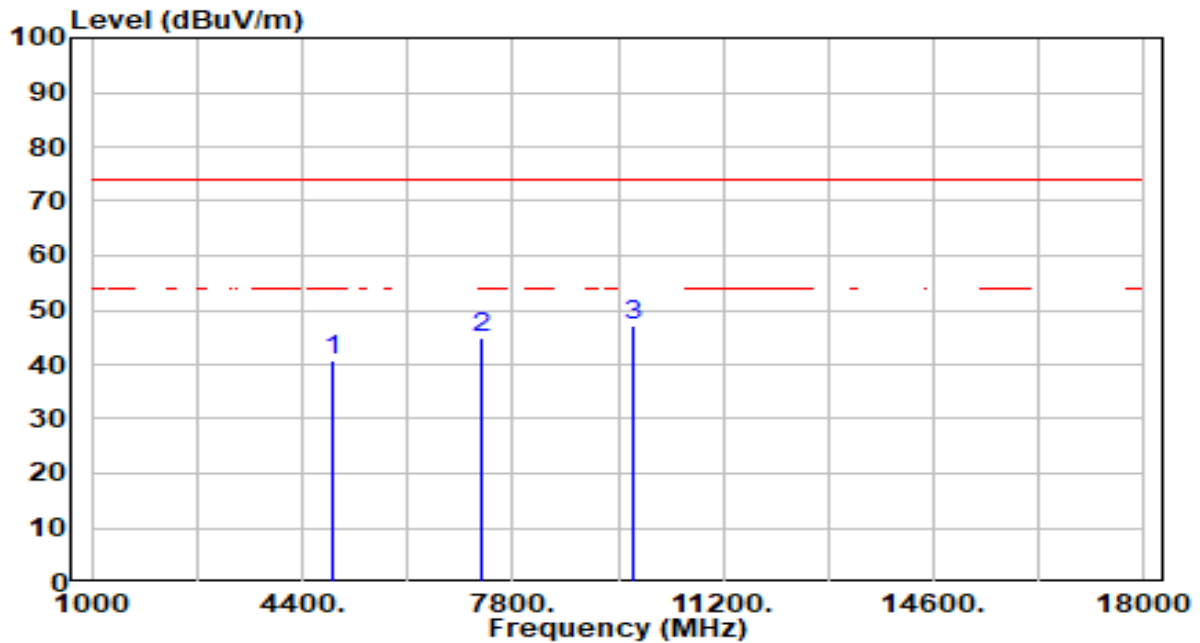


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	41.04	0.36	41.40	-32.60	74.00	100	224	Peak
2	7311.000	38.93	5.59	44.52	-29.48	74.00	100	239	Peak
3	* 9748.000	42.04	5.34	47.38	-26.62	74.00	100	338	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-40MHz_TX_CH 6 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

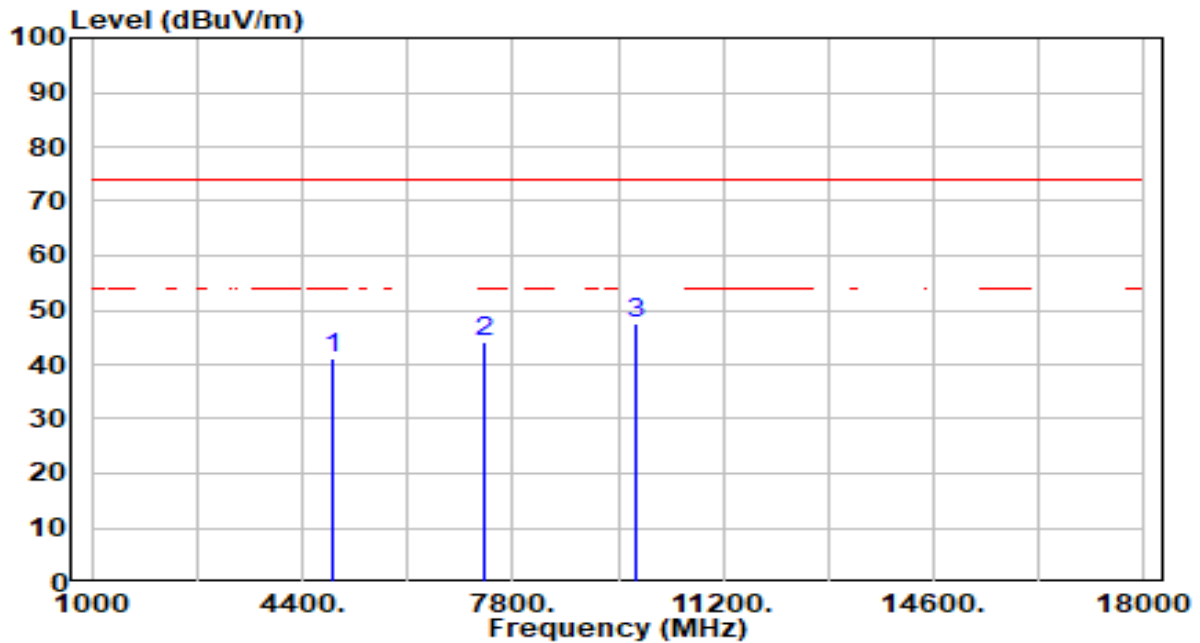


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	40.34	0.36	40.70	-33.30	74.00	100	221	Peak
2	7311.000	39.24	5.59	44.83	-29.17	74.00	100	9	Peak
3	* 9748.000	41.91	5.34	47.25	-26.75	74.00	100	1	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-40MHz_TX_CH 9 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz

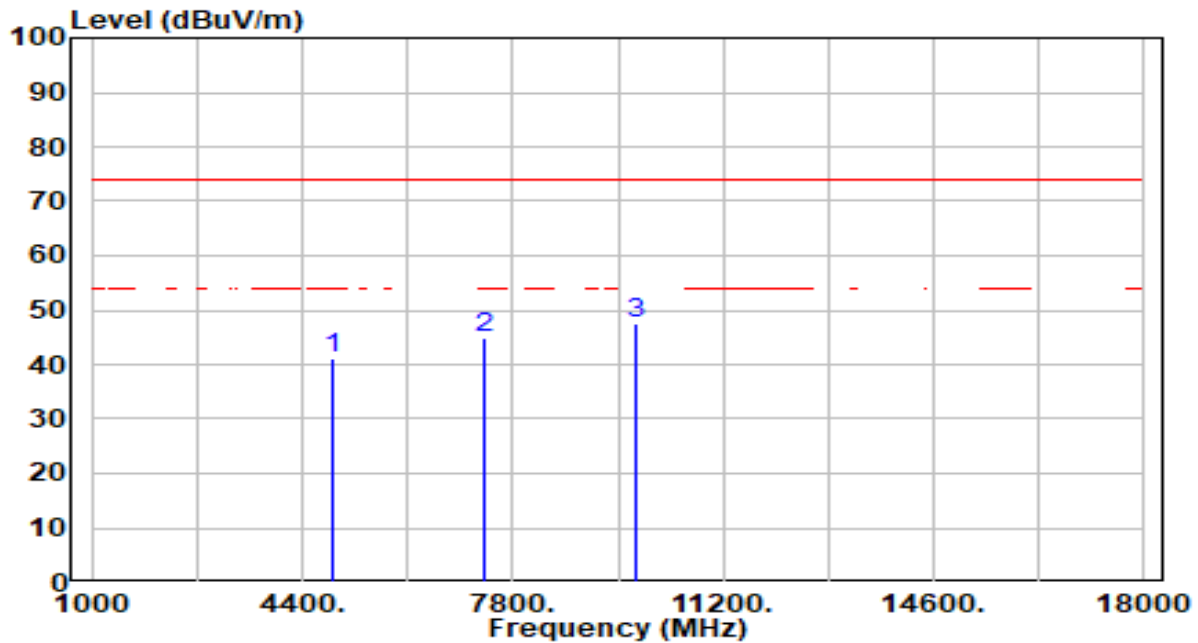


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	40.70	0.44	41.15	-32.85	74.00	100	218	Peak
2	7356.000	38.68	5.62	44.29	-29.71	74.00	100	198	Peak
3	* 9808.000	42.00	5.37	47.37	-26.63	74.00	100	128	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-16
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11be-40MHz_TX_CH 9 ANT 0+1_ Horizontal Ant	Test Voltage	AC 120V/60Hz



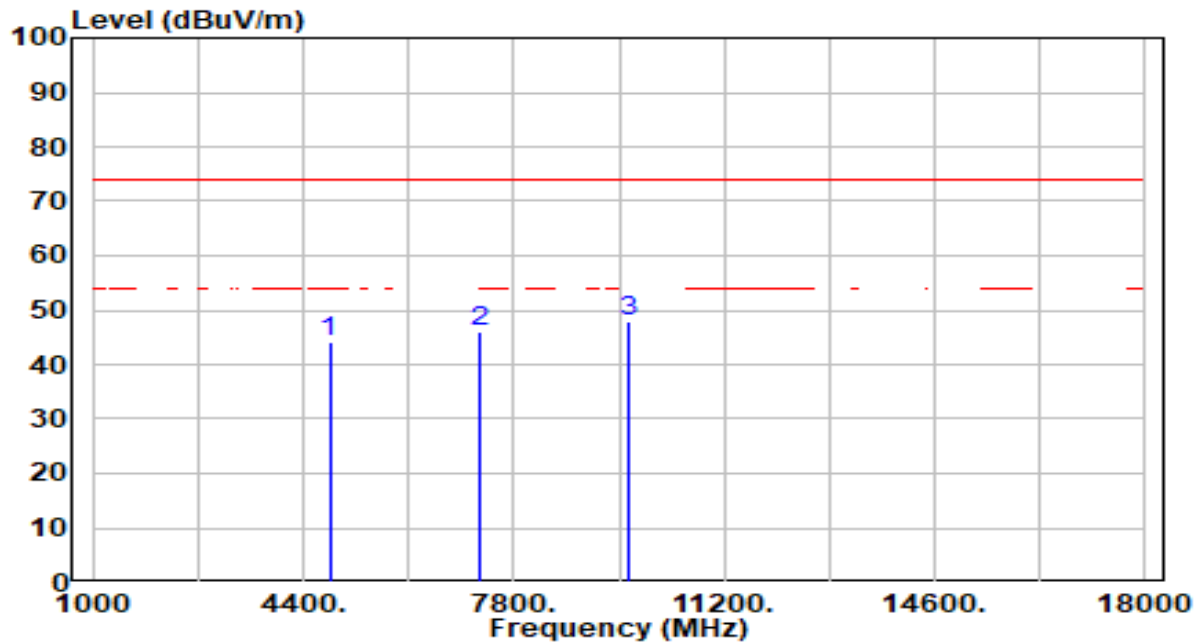
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4904.000	40.56	0.44	41.00	-33.00	74.00	100	70	Peak
2	7356.000	39.15	5.62	44.77	-29.23	74.00	100	96	Peak
3	* 9808.000	42.21	5.37	47.58	-26.42	74.00	100	20	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Vertical Antenna Data

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-18
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 1 ANT 0+1_ Vertical Ant	Test Voltage	AC 120V/60Hz

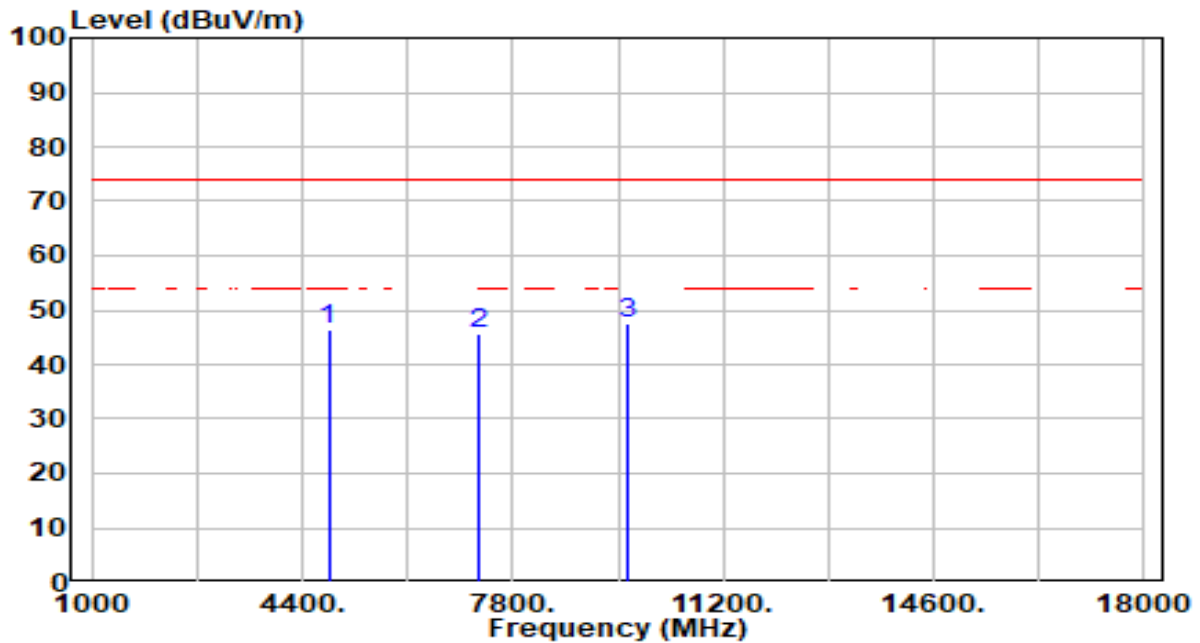


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4824.000	43.82	0.23	44.05	-29.95	74.00	200	0	Peak
2	7236.000	40.35	5.54	45.89	-28.11	74.00	300	342	Peak
3	* 9648.000	42.79	5.30	48.09	-25.91	74.00	100	303	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-18
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Vertical	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 1 ANT 0+1_ Vertical Ant	Test Voltage	AC 120V/60Hz

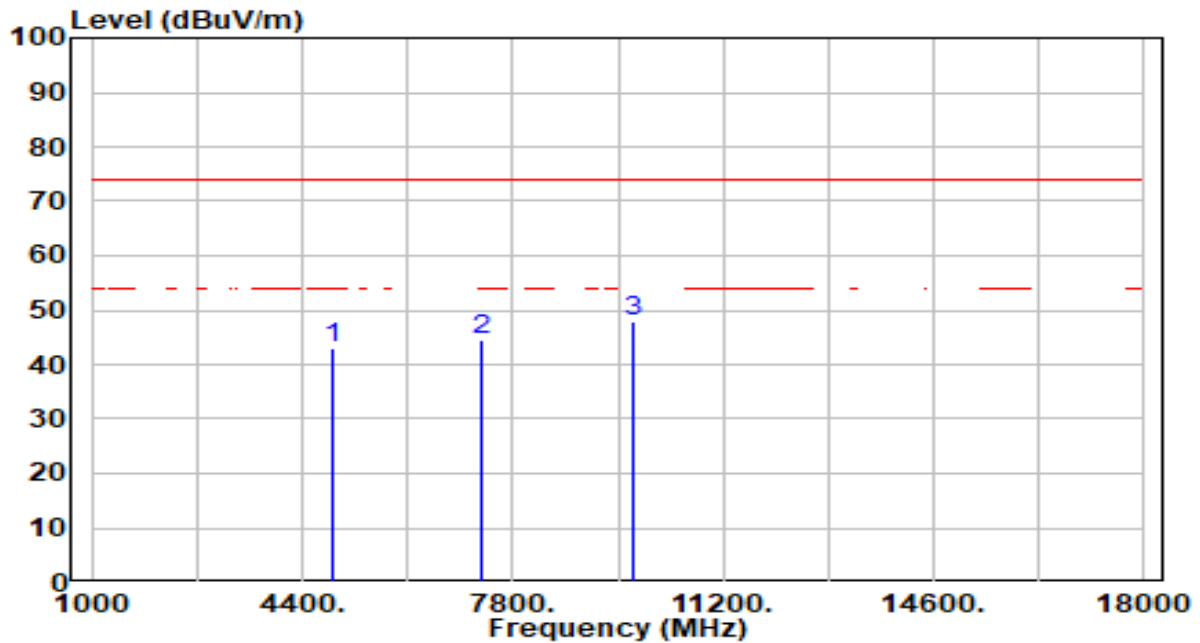


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		4824.000	46.27	0.23	46.50	-27.50	74.00	200	62	Peak
2		7236.000	40.24	5.54	45.78	-28.22	74.00	300	15	Peak
3	*	9648.000	42.12	5.30	47.42	-26.58	74.00	100	4	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	BE5000 Outdoor/indoor Mesh Wi-Fi 7 Router	Date of Test	2024-07-18
Factor	DRH18-E	Temp. / Humidity	20°C /65%
Polarity	Horizontal	Site / Test Engineer	AC2 / Stanley
Test Mode	802.11b_TX_CH 6 ANT 0+1_ Vertical Ant	Test Voltage	AC 120V/60Hz



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4874.000	42.71	0.36	43.07	-30.93	74.00	200	78	Peak
2	7311.000	39.12	5.59	44.71	-29.29	74.00	200	148	Peak
3	* 9748.000	42.75	5.34	48.09	-25.91	74.00	200	0	Peak

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.