


# CE Radio Test Report

| | | |
|---|---|---|
| **Project No.** | : | 2501C386 |
| **Equipment** | : | BE11000 2.5G Tri-Band Mesh Wi-Fi 7 Router |
| **Brand Name** | : | Cudy |
| **Model Name** | : | WR11000 |
| **Applicant** | : | Shenzhen Cudy Technology Co., Ltd. |
| **Address** | : | 7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China |
| **Manufacturer** | : | Shenzhen Cudy Technology Co., Ltd. |
| **Address** | : | 7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China |
| **Factory** | : | Shenzhen Cudy Technology Co., Ltd. |
| **Address** | : | 7/F, Lepu Tower (West), 66 Xingke Rd, Nanshan, Shenzhen, China |
| **Date of Receipt** | : | Feb. 11, 2025 |
| **Date of Test** | : | Feb. 13, 2025 ~ Aug. 20, 2025 |
| **Issued Date** | : | Sep. 02, 2025 |
| **Test Sample** | : | Engineering Sample No.: SSL2025021158 for adaptivity, blocking and selectivity, SSL2025021159 for radiated and other conducted. |
| **Standard(s)** | : | ETSI EN 303 687 V1.1.1 (2023-06) |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

**Prepared by** : Sheldon Ou

Sheldon Ou

**Approved by** : Steven Lu

Steven Lu

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China
Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

**BTL**'s laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

# Table of Contents

Page

REVISION HISTORY 7

1 . RF EMISSIONS MEASUREMENT 8

1.1 TEST FACILITY 8

1.2 MEASUREMENT UNCERTAINTY 8

1.3 TEST ENVIRONMENT CONDITIONS 8

1.4 TEST CHANNEL 9

1.5 TEST METHODOLOGY AND RESULTS 10

2 . GENERAL INFORMATION 11

2.1 GENERAL DESCRIPTION OF EUT 11

2.2 DESCRIPTION OF TEST MODES 14

2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING 16

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 17

2.5 DESCRIPTION OF SUPPORT UNITS 17

2.6 EUT OPERATING CONDITIONS 17

2.7 CUSTOMER INFORMATION DESCRIPTION 17

3 . NOMINAL CENTRE FREQUENCIES AND NOMINAL BANDWIDTH 18

3.1 LIMIT 18

3.2 TEST PROCEDURES 18

3.3 TEST SETUP LAYOUT 18

3.4 TEST DEVIATION 18

3.5 EUT OPERATION DURING TEST 18

3.6 TEST RESULTS 18

4 . RF OUTPUT POWER 19

4.1 LIMIT 19

4.2 TEST PROCEDURES 19

4.3 TEST SETUP LAYOUT 19

4.4 TEST DEVIATION 19

4.5 EUT OPERATION DURING TEST 19

4.6 TEST RESULTS 19

5 . POWER SPECTRAL DENSITY 20

5.1 LIMIT 20

5.2 TEST PROCEDURES 20

## Table of Contents Page

5.3 TEST SETUP LAYOUT 20
5.4 TEST DEVIATION 20
5.5 EUT OPERATION DURING TEST 20
5.6 TEST RESULTS 20
6 . TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 6 GHZ WAS/RLAN BAND 21
6.1 LIMIT 21
6.2 TEST PROCEDURES 21
6.3 TEST SETUP LAYOUT 22
6.4 TEST DEVIATION 23
6.5 EUT OPERATION DURING TEST 23
6.6 TEST RESULTS (30MHZ TO 1000MHZ) 23
6.7 TEST RESULTS (ABOVE 1000MHZ) 23
7 . TRANSMITTER UNWANTED EMISSIONS WITHIN THE 6 GHZ WAS/RLAN BAND 24
7.1 LIMIT 24
7.2 TEST PROCEDURES 24
7.3 TEST SETUP LAYOUT 24
7.4 TEST DEVIATION 24
7.5 EUT OPERATION DURING TEST 24
7.6 TEST RESULTS 24
8 . RECEIVER SPURIOUS EMISSIONS 25
8.1 LIMIT 25
8.2 TEST PROCEDURES 25
8.3 TEST SETUP LAYOUT 25
8.4 TEST DEVIATION 25
8.5 EUT OPERATION DURING TEST 25
8.6 TEST RESULTS (30 MHZ TO 1000 MHZ) 25
8.7 TEST RESULTS (ABOVE 1000 MHZ) 25
9 . CHANNEL ACCESS MECHANISM 26
9.1 LIMIT 26
9.2 TEST PROCEDURES 26
9.3 TEST SETUP 26
9.4 TEST DEVIATION 26

## Table of Contents Page

9.5 EUT OPERATION DURING TEST 26
9.6 TEST RESULTS 26
10 . RECEIVER BLOCKING 27
10.1 LIMIT 27
10.2 TEST PROCEDURES 28
10.3 TEST SETUP 28
10.4 TEST DEVIATION 28
10.5 EUT OPERATION DURING TEST 28
10.6 TEST RESULTS 28
11 . RECEIVER SELECTIVITY 29
11.1 LIMIT 29
11.2 TEST PROCEDURES 29
11.3 TEST SETUP 30
11.4 TEST DEVIATION 30
11.5 EUT OPERATION DURING TEST 30
11.6 TEST RESULTS 30
12 . VLP NB USAGE WITH A PSD ABOVE 1 DBM/MHZ 31
12.1 LIMIT 31
12.2 TEST PROCEDURES 31
12.3 TEST SETUP LAYOUT 31
12.4 TEST DEVIATION 31
12.5 EUT OPERATION DURING TEST 31
12.6 TEST RESULTS 31
13 . MEASUREMENT INSTRUMENTS LIST 32
14 . EUT TEST PHOTO 36
APPENDIX A - CENTRE FREQUENCIES 37
APPENDIX B - RF OUTPUT POWER 39
APPENDIX C - POWER SPECTRAL DENSITY 42
APPENDIX D - TRANSMITTER UNWANTED EMISSIONS 44
OUTSIDE THE 6 GHZ WAS/RLAN BAND (30MHZ TO 1000MHZ) 44
APPENDIX E - TRANSMITTER UNWANTED EMISSIONS 47
OUTSIDE THE 6 GHZ WAS/RLAN BAND (ABOVE 1000MHZ) 47

## Table of Contents

| | Page |
|---|---|
| APPENDIX F - TRANSMITTER UNWANTED EMISSIONS | 78 |
| WITHIN THE 6 GHZ WAS/RLAN BAND | 78 |
| APPENDIX G - RECEIVER SPURIOUS EMISSIONS (30MHZ TO 1000MHZ) | 88 |
| APPENDIX H - RECEIVER SPURIOUS EMISSIONS (ABOVE 1000MHZ) | 91 |
| APPENDIX I - CHANNEL ACCESS MECHANISM | 96 |
| APPENDIX J - RECEIVER BLOCKING | 102 |
| APPENDIX K - RECEIVER SELECTIVITY | 104 |
| APPENDIX L - VLP NB USAGE WITH A PSD | 106 |
| ABOVE 1 DBM/MHZ | 106 |

## REVISION HISTORY

| Report No. | Version | Description | Issued Date | Note |
|---|---|---|---|---|
| BTL-ETSP-5-2501C386 | R00 | Original Report. | Sep. 02, 2025 | Valid |

# 1. RF EMISSIONS MEASUREMENT

## 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-CB12/TR17** at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

## 1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 95% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).
Measurement Uncertainty for a Level of Confidence of 95.45%, $U=2\times u_c(y)$.

The BTL measurement uncertainty as below table:

| **Item** | **Uncertainty** |
|---|---|
| Radio Frequency | 2.7 ppm |
| RF Power, Conducted | 1.3 dB |
| Temperature | 0.8 °C |
| Humidity | 2.2 % |
| Time | 10 % |
| Spurious Emissions, Radiated f ≤ 1GHz | 3.58 dB |
| Spurious Emissions, Radiated 1GHz < f ≤ 18GHz | 3.78 dB |
| Spurious Emissions, Radiated 18GHz < f ≤ 26.5GHz | 4.20 dB |

## 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Test Voltage | Tested By | Test Date |
|---|---|---|---|---|---|
| Nominal centre frequencies | Normal & Extreme | 53% | AC 230V/50Hz | Ilya Zhang | Apr. 07, 2025 |
| RF output power | Normal & Extreme | 50-54% | AC 230V/50Hz | Ilya Zhang | Feb. 17, 2025~ Apr. 26, 2025 |
| Power spectral density | 21°C | 53% | AC 230V/50Hz | Ilya Zhang | Apr. 07, 2025 |
| Transmitter unwanted emissions outside the 6 GHz WAS/RLAN band | 22°C | 53% | AC 230V/50Hz | Jojo Xiao | Mar. 02, 2025 |
| | 24°C | 55% | AC 230V/50Hz | Jojo Xiao | Mar. 17, 2025 |
| | 24°C | 55% | AC 230V/50Hz | Leo Liang | Mar. 18, 2025 |
| Transmitter unwanted emissions within the 6 GHz WAS/RLAN band | 21°C | 53% | AC 230V/50Hz | Ilya Zhang | Apr. 07, 2025 |
| Receiver spurious emissions | 22°C | 53% | AC 230V/50Hz | Jojo Xiao | Mar. 02, 2025 |
| | 24°C | 55% | AC 230V/50Hz | Leo Liang | Mar. 18, 2025 |
| Channel access mechanism | 24°C | 46% | AC 230V/50Hz | Ilya Zhang | Aug. 18, 2025 |
| Receiver blocking | 25°C | 48% | AC 230V/50Hz | Ilya Zhang | Aug. 20, 2025 |
| Receiver selectivity | 25°C | 48% | AC 230V/50Hz | Ilya Zhang | Aug. 20, 2025 |

## 1.4 TEST CHANNEL

| IEEE 802.11be(EHT20) | | |
|---|---|---|
| Test Channel | EUT Channel | Test Frequency |
| Low | CH01 | 5955 MHz |
| High | CH93 | 6415 MHz |

| IEEE 802.11be(EHT40) | | |
|---|---|---|
| Test Channel | EUT Channel | Test Frequency |
| Low | CH03 | 5965 MHz |
| High | CH91 | 6405 MHz |

| IEEE 802.11be(EHT80) | | |
|---|---|---|
| Test Channel | EUT Channel | Test Frequency |
| Low | CH07 | 5985 MHz |
| High | CH87 | 6385 MHz |

| IEEE 802.11be(EHT160) | | |
|---|---|---|
| Test Channel | EUT Channel | Test Frequency |
| Low | CH15 | 6025 MHz |
| High | CH79 | 6345 MHz |

| IEEE 802.11be(EHT320) | | |
|---|---|---|
| Test Channel | EUT Channel | Test Frequency |
| Low | CH31 | 6105 MHz |
| High | CH63 | 6265 MHz |

## 1.5 TEST METHODOLOGY AND RESULTS

| Harmonised Standard ETSI EN 303 687 | | | | | |
|---|---|---|---|---|---|
| Requirement | | | Requirement Conditionality | | Observations |
| No | Description | Reference: Clause No | U/C | Condition | |
| 1 | Nominal centre frequencies/nominal bandwidth | 4.3.1 | U | - | Pass |
| 2 | RF output power | 4.3.2 | U | - | Pass |
| 3 | PSD | 4.3.3.2 | U | - | Pass |
| 4 | VLP NB usage with a PSD above 1 dBm/MHz | 4.3.3.3 | C | Where supported by the VLP equipment. | N/A |
| 5 | Transmitter unwanted emissions outside the 6 GHz WAS/RLAN band | 4.3.4.1, 4.3.4.2 | U | - | Pass |
| 6 | Transmitter unwanted emissions within the 6 GHz WAS/RLAN band | 4.3.4.3.2.1 | U | - | Pass |
| | | 4.3.4.3.2.2 | C | Where multi-channel operation in adjacent channels is supported | N/A |
| | | 4.3.4.3.2.3 | C | Where multi-channel operation in non-adjacent channels is supported | N/A |
| 7 | Receiver spurious emissions | 4.3.5 | U | - | Pass |
| 8 | Channel access mechanism for FBE | 4.3.6.3.1 | C | Where devices operate as FBE | N/A |
| 9 | Channel access mechanism for LBE | 4.3.6.3.2 | C | Where devices operate as LBE | Pass |
| 10 | Receiver blocking | 4.3.7 | U | - | Pass |
| 11 | Receiver selectivity | 4.3.8 | U | - | Pass |
| 12 | Mechanical and electrical design | 4.3.9 | U | - | Pass (Note 3) |
| 13 | User Access Restrictions | 4.3.10 | U | - | Pass (Note 4) |

Note:
1. U/C Indicates whether the requirement is unconditionally applicable (U) or is conditional upon the manufacturer's claimed functionality of the equipment (C).
2. “N/A” indicates that it does not apply to this device.
3. Equipment categories:
   ☒ a) LPI category device
      ☒ LPI AP/bridge sub-category device
         ☒ Supplied from a wired connection
         ☒ Designed with one or more integral antenna(s)
         (LPI AP/bridge sub-category devices shall be supplied from a wired connection and shall not be battery powered. And LPI AP/bridge sub-category devices shall be designed with one or more integral antenna(s) as a fixed part of the equipment, i.e., without externally accessible connectors to prevent the connection of another antenna by a user.)
      ☐ LPI client sub-category device
   ☐ b) VLP category device
4. The UUT does not provide options that allow automatic or manual adjustment of limits and/or requirements for those items identified below:
   • The channel access mechanism requirements, as defined in clause 4.3.6 (EN 303 687), in particular the ED thresholds defined in clause 4.3.6.3.3 (EN 303 687).
   • Integral antenna requirement in clause 4.3.9.2.2 (EN 303 687) for LPI AP/bridge sub-category devices.

# 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Equipment | BE11000 2.5G Tri-Band Mesh Wi-Fi 7 Router |
| Brand Name | Cudy |
| Test Model | WR11000 |
| Model Name | WR11000 |
| Model Difference(s) | N/A |
| Hardware Version | V1.0 |
| Software Version | 2.2.14 |
| Power Source | DC voltage supplied from AC adapter.<br>Model: TPA259F-24120-EU |
| Power Rating | I/P: 100-240V~ 50/60Hz 0.8A O/P: 12.0V⎓2.0A |
| Operation Frequency Band(s) | 5945 MHz ~ 6425 MHz |
| Modulation Type | IEEE 802.11ax/be: OFDMA |
| Bit Rate of Transmitter | IEEE 802.11be: up to 5764 Mbps |
| Max. e.i.r.p. | IEEE 802.11be(EHT20): 21.66 dBm (146.55 mW)<br>IEEE 802.11be(EHT40): 22.82 dBm (191.43 mW)<br>IEEE 802.11be(EHT80): 22.90 dBm (194.98 mW)<br>IEEE 802.11be(EHT160): 22.76 dBm (188.80 mW)<br>IEEE 802.11be(EHT320): 22.92 dBm (195.88 mW) |

Note:
1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

| Band 5 | | | | | |
|---|---|---|---|---|---|
| IEEE 802.11ax(HE20), IEEE 802.11be(EHT20) | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1 | 5955 | 33 | 6115 | 65 | 6275 |
| 5 | 5975 | 37 | 6135 | 69 | 6295 |
| 9 | 5995 | 41 | 6155 | 73 | 6315 |
| 13 | 6015 | 45 | 6175 | 77 | 6335 |
| 17 | 6035 | 49 | 6195 | 81 | 6355 |
| 21 | 6055 | 53 | 6215 | 85 | 6375 |
| 25 | 6075 | 57 | 6235 | 89 | 6395 |
| 29 | 6095 | 61 | 6255 | 93 | 6415 |

| Band 5 | | | | | |
|---|---|---|---|---|---|
| IEEE 802.11ax(HE40), IEEE 802.11be(EHT40) | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 3 | 5965 | 35 | 6125 | 67 | 6285 |
| 11 | 6005 | 43 | 6165 | 75 | 6325 |
| 19 | 6045 | 51 | 6205 | 83 | 6365 |
| 27 | 6085 | 59 | 6245 | 91 | 6405 |

| Band 5 | | | | | |
|---|---|---|---|---|---|
| IEEE 802.11ax(HE80), IEEE 802.11be(EHT80) | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 7 | 5985 | 39 | 6145 | 71 | 6305 |
| 23 | 6065 | 55 | 6225 | 87 | 6385 |

| Band 5 | | | | | |
|---|---|---|---|---|---|
| IEEE 802.11ax(HE160), IEEE 802.11be(EHT160) | | | | | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 15 | 6025 | 47 | 6185 | 79 | 6345 |

| Band 5 | |
|---|---|
| IEEE 802.11be(EHT320) | |
| Channel | Frequency (MHz) |
| 31 | 6105 |
| 63 | 6265 |

3. Table for Filed Antenna:

| Ant. | Brand | P/N | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | South star | 660100198 | Dipole | N/A | 0.98 |
| 2 | South star | 660100199 | Dipole | N/A | 0.82 |

Note:
1) The EUT incorporates a CDD function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
2) Beamforming Gain: 3.0 dB.

4. The worst case for 2TX as follow:

| Operating Mode / TX Mode | 2TX |
|---|---|
| IEEE 802.11be(EHT20) | V (Ant. 1+Ant. 2) |
| IEEE 802.11be(EHT40) | V (Ant. 1+Ant. 2) |
| IEEE 802.11be(EHT80) | V (Ant. 1+Ant. 2) |
| IEEE 802.11be(EHT160) | V (Ant. 1+Ant. 2) |
| IEEE 802.11be(EHT320) | V (Ant. 1+Ant. 2) |

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test | Clause | Test channels |
|---|---|---|
| Nominal centre frequencies | 5.4.2 | One of the declared channels. |
| RF output power | 5.4.3 | The lowest and highest declared channel for every declared nominal bandwidth.<br>For VLP NB operation see note 2 below. |
| Power spectral density | 5.4.4 | The lowest and highest declared channels for the lowest nominal bandwidth.<br>For VLP NB operation see note 2 below. |
| Transmitter unwanted emissions outside the 6 GHz WAS/RLAN band | 5.4.5 | Out-of-band domain: The lowest and highest declared channel for every declared nominal bandwidth.<br>For VLP NB operation see note 2 below<br>Spurious domain: One of the declared channels<br>For VLP NB operation see note 1 below. |
| Transmitter unwanted emissions within the 6 GHz WAS/RLAN band | 5.4.6 | For single channel operation: the lowest and highest declared channels for the 20 MHz nominal bandwidth.<br>For VLP NB operation see note 2 below.<br>For multi-channel operation in adjacent channels: where transmission occurs in all adjacent channels the lowest and highest declared channel for every declared nominal bandwidth (N).<br>For multi-channel operation in adjacent channels where one or more of the adjacent channels is not used for transmission the highest declared channel for the highest declared nominal bandwidth. Channel transmission configurations to show each of the supported masks in figure 2, figure 3 and figure 4.<br>For multi-channel operation in non-adjacent channels: each set of grouped channels will be treated individually and testing is covered by the multi-channel operation in adjacent channels above. |
| Receiver spurious emissions | 5.4.7 | One of the declared channels.<br>For VLP NB operation see note 1 below. |
| Channel access mechanism | 5.4.8 | One channel (in case of single channel testing) or a group of channels (in case of multi-channel testing) out of the declared channels.<br>For VLP NB operation see note 1 below. |
| Receiver blocking | 5.4.9 | The lowest and the highest declared channels at the lowest supported nominal bandwidth, see also 5.4.9.1.<br>For VLP NB operation see note 2 and note 3 below. |
| Receiver selectivity | 5.4.10 | The lowest and the highest declared channels within the range 5 985 MHz to 6 385 MHz at the lowest supported nominal bandwidth, see also 5.4.10.1.<br>For VLP NB operation see note 2 and note 3 below. |

| Test | Clause | Test channels |
|---|---|---|
| Mechanical and electrical design | 5.4.11 | Not applicable. Visual inspection only. |
| VLP NB usage with a PSD above 1 dBm/MHz | 5.4.12 | For duty cycle measurements: See note 2 below.<br>For number of hop frequency measurements: Normal operational mode with no blacklisting. |
| User Access Restrictions | 5.4.13 | Not applicable. Visual inspection only. |

Note :

(1) For VLP NB operation one of the supported centre frequencies, see clause 5.4.1, item b).

(2) For VLP NB operation test 1) the lowest supported centre frequency within the lowest 20 MHz channel where NB transmissions occur and 2) the highest supported centre frequency within the highest 20 MHz channel where NB transmissions occur. These NB transmissions shall be tested at the centre frequencies at all the bandwidths for these NB transmissions, see also clause 5.4.1 item b).

(3) Receiver blocking and receiver selectivity need only be tested at the lowest supported transmission bandwidth. For receiver selectivity the lowest and highest supported centre frequencies are selected from within the range 5 985 MHz to 6 385 MHz. Receiver blocking and receiver selectivity may be tested in normal operational mode (potentially using multiple hop frequencies).

(4) For Beamforming operation, the manufacturer automatically reduces power based on a factor calculated as the difference between the beamforming directional gain and the CDD directional power gain. Thus, only the CDD mode was evaluated in this report.

(5) For radiated spurious emissions below 1 GHz and receiver spurious emissions above 1 GHz test, the 802.11be(EHT320) channel 63 is found to be the worst case and recorded.

(6) IEEE 802.11ax mode and IEEE 802.11be mode only support full RU, so only the full RU is evaluated and measured inside report.

(7) For radiated spurious emissions above 18 GHz test, only tested the worst case and recorded.

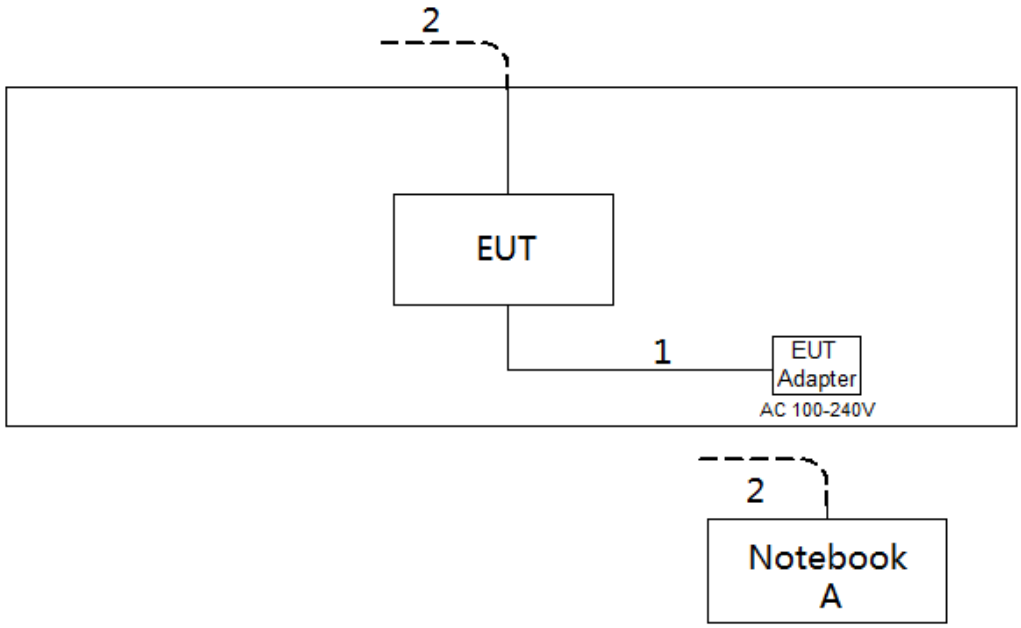
(8) EHT20/EHT40/EHT80/EHT160 covers HE20/HE40/HE80/HE160, due to same modulation (in full RU). The power setting for 802.11ax HE20/HE40/HE80/HE160 are the same or lower than 802.11be EHT20/EHT40/EHT80/EHT160.

## 2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

| Test Software Version | IPOP_V4.0 | |
|---|---|---|
| Frequency (MHz) | 5955 | 6415 |
| IEEE 802.11be(EHT20) | 18 | 18.5 |
| Frequency (MHz) | 5965 | 6405 |
| IEEE 802.11be(EHT40) | 19 | 19.5 |
| Frequency (MHz) | 5985 | 6385 |
| IEEE 802.11be(EHT80) | 19 | 19.5 |
| Frequency (MHz) | 6025 | 6345 |
| IEEE 802.11be(EHT160) | 19 | 18.5 |
| Frequency (MHz) | 6105 | 6265 |
| IEEE 802.11be(EHT320) | 18.5 | 18.5 |

## 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED




## 2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Brand | Model No. | Series No. |
|---|---|---|---|---|
| A | Notebook | Honor | Nbl-WAQ9HNRP | N/A |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|---|---|---|---|---|
| 1 | DC Cable | NO | NO | 1.5m |
| 2 | RJ45 Cable | NO | NO | 10m |

## 2.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

## 2.7 CUSTOMER INFORMATION DESCRIPTION

1) The antenna gain and beamforming gain are provided by the manufacturer.
2) Except for radiated spurious emissions, the results of all test items include cable losses. All cable losses are provided by the testing laboratory.

# 3. NOMINAL CENTRE FREQUENCIES AND NOMINAL BANDWIDTH

## 3.1 LIMIT

| Clause | Test Item | Limit |
|---|---|---|
| 4.3.1 | Centre Frequencies | F(c) ±20ppm |

## 3.2 TEST PROCEDURES

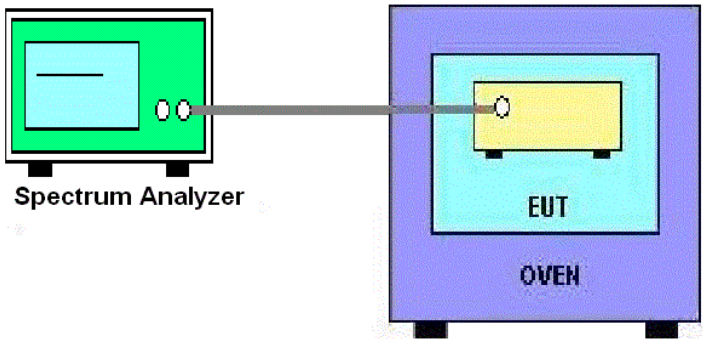
Refer to ETSI EN 303 687, clause 5.4.2.2.1.

## 3.3 TEST SETUP LAYOUT

**Normal Condition**




**Extreme Condition**




## 3.4 TEST DEVIATION

There is no deviation with the original standard.

## 3.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously transmitting.

## 3.6 TEST RESULTS

Please refer to the Appendix A.

# 4. RF OUTPUT POWER

## 4.1 LIMIT

| Mean EIRP limit for RF output power | | |
|---|---|---|
| Frequency Range (MHz) | Level (dBm) | |
| | LPI usage | VLP usage |
| 5945 to 6425 | 23 | 14 |

## 4.2 TEST PROCEDURES

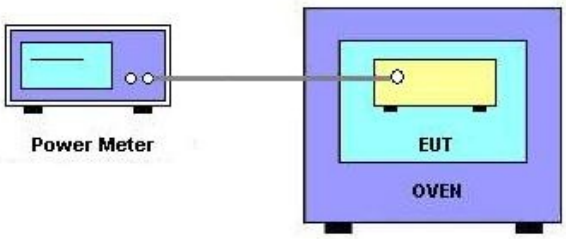
Refer to ETSI EN 303 687, clause 5.4.3.2.1.

## 4.3 TEST SETUP LAYOUT

**Normal Condition**




**Extreme Condition**




## 4.4 TEST DEVIATION

There is no deviation with the original standard.

## 4.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously transmitting.

## 4.6 TEST RESULTS

Please refer to the Appendix B.

# 5. POWER SPECTRAL DENSITY

## 5.1 LIMIT

| Mean EIRP density limit | | | |
|---|---|---|---|
| Frequency Range (MHz) | Level (dBm/MHz) | | |
| | LPI usage | VLP usage | VLP NB usage |
| 5945 to 6425 | 10 | 1 | 10 (See note) |

Note:
The duty cycle of NarrowBand (NB) transmissions by a VLP device with a PSD above 1 dBm/MHz shall not exceed 1/15 on any transmission frequency.
NB devices require a frequency hopping mechanism based on at least 15 hop frequencies and meet the above duty cycle to operate at a PSD value above 1 dBm/MHz.
NOTE: Frequency hopping in the context of the present document implies the use of the channel access mechanisms and channelization as defined in the present document.

## 5.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.4.2.1.

## 5.3 TEST SETUP LAYOUT




## 5.4 TEST DEVIATION

There is no deviation with the original standard.

## 5.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously transmitting.

## 5.6 TEST RESULTS

Please refer to the Appendix C.

# 6. TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 6 GHZ WAS/RLAN BAND

## 6.1 LIMIT

<table>
<tr><th colspan="2">Transmitter unwanted emissions in the out-of-band domain</th></tr>
<tr><th>Clause</th><th>Limit</th></tr>
<tr><td>4.3.4.1</td><td>The level of Transmitter unwanted emissions in the out-of-band domain shall not exceed the limits given in table below.
<table>
<tr><th rowspan="2">Equipment</th><th rowspan="2">Frequency (MHz)</th><th rowspan="2">Limit</th><th colspan="2">Out-of-band/spurious domain boundary separation from the nominal centre frequency under test (where applicable)</th></tr>
<tr><td>N <100 MHz</td><td>N≥ 100 MHz</td></tr>
<tr><td rowspan="2">LPI</td><td>< 5 935</td><td>-22 dBm/MHz</td><td rowspan="4">±250 % × N</td><td rowspan="4">±150 % × N + 100 MHz</td></tr>
<tr><td>> 6 425</td><td>Spectral power mask as defined by application of figure 1 and figure 2 (as applicable) in clause 4.3.4.3.2.</td></tr>
<tr><td rowspan="2">VLP</td><td>< 5 935</td><td>-45 dBm/MHz (see note)</td></tr>
<tr><td>> 6 425</td><td>Spectral power mask as defined by application of figure 1 and figure 2 (as applicable) in clause 4.3.4.3.2.</td></tr>
<tr><td colspan="5">NOTE: See also Commission Implementing Decision (EU) 2021/1067 of 17.6.2021 [i.11], table 2, note 3.</td></tr>
</table>
Note: The definition of N is Nominal bandwidth of a channel (or a group of channels in case of multi-channel operation).</td></tr>
</table>

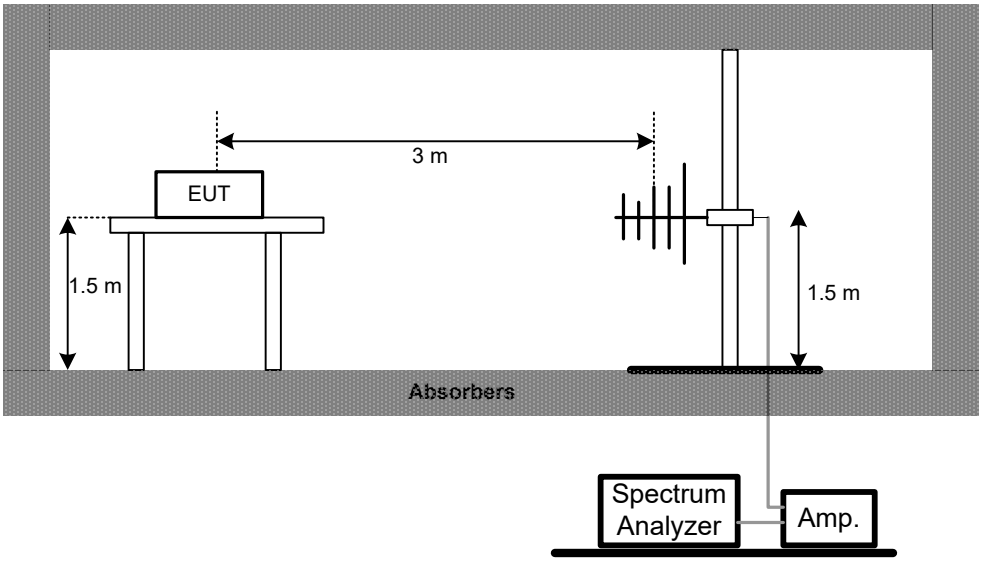
<table>
<tr><th colspan="2">Transmitter unwanted emissions in the spurious domain</th></tr>
<tr><th>Clause</th><th>Limit</th></tr>
<tr><td>4.3.4.2</td><td>The level of Transmitter unwanted emissions in the spurious domain shall not exceed the limits given in table below.<br>In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are ERP for emissions up to 1 GHz and EIRP for emissions above 1 GHz.
<table>
<tr><th>Frequency range</th><th>Maximum power</th><th>Measurement bandwidth</th></tr>
<tr><td>30 MHz ≤ f < 87,5 MHz</td><td>-36 dBm</td><td>100 kHz</td></tr>
<tr><td>87,5 MHz ≤ f ≤ 118 MHz</td><td>-54 dBm</td><td>100 kHz</td></tr>
<tr><td>118 MHz < f < 174 MHz</td><td>-36 dBm</td><td>100 kHz</td></tr>
<tr><td>174 MHz ≤ f ≤ 230 MHz</td><td>-54 dBm</td><td>100 kHz</td></tr>
<tr><td>230 MHz < f < 470 MHz</td><td>-36 dBm</td><td>100 kHz</td></tr>
<tr><td>470 MHz ≤ f ≤ 694 MHz</td><td>-54 dBm</td><td>100 kHz</td></tr>
<tr><td>694 MHz < f ≤ 1 GHz</td><td>-36 dBm</td><td>100 kHz</td></tr>
<tr><td>1 GHz < f ≤ 26 GHz</td><td>-30 dBm</td><td>1 MHz</td></tr>
<tr><td colspan="3">NOTE: Information in this table is based on ERC Recommendation 74-01 [i.10], annex 2, table 6.</td></tr>
</table></td></tr>
</table>

## 6.2 TEST PROCEDURES

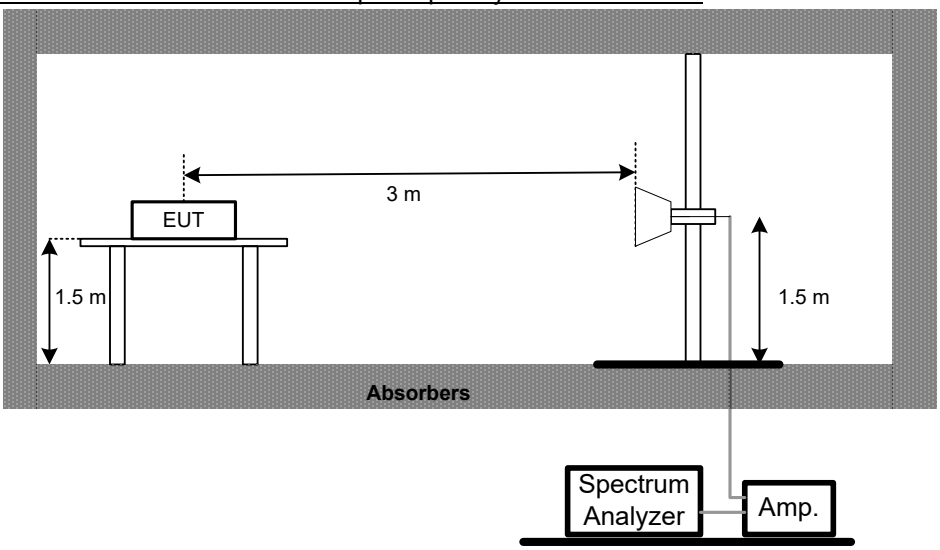
Refer to ETSI EN 303 687, clause 5.4.5.2.2.

## 6.3 TEST SETUP LAYOUT

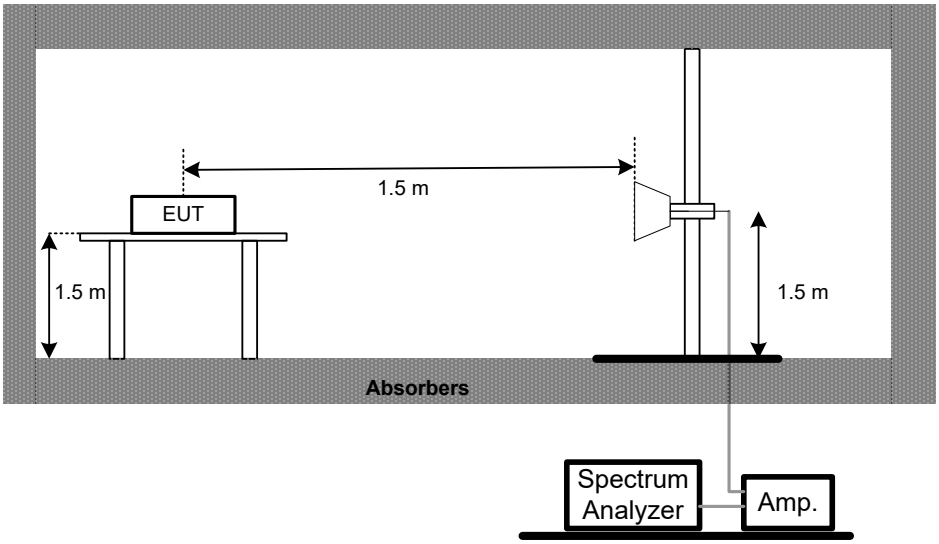
Emission Radiated Measurement Test Set-Up Frequency Below 1 GHz




Emission Radiated Measurement Test Set-Up Frequency 1 GHz - 18 GHz



Emission Radiated Measurement Test Set-Up Frequency Above 18 GHz




## 6.4 TEST DEVIATION

There is no deviation with the original standard.

## 6.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously transmitting.

## 6.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix D.

## 6.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix E.

# 7. TRANSMITTER UNWANTED EMISSIONS WITHIN THE 6 GHZ WAS/RLAN BAND

## 7.1 LIMIT

| Clause | Test Item | Limit |
|---|---|---|
| 4.3.4.3 | Transmitter unwanted emissions within the 6 GHz WAS/RLAN band | Refer to ETSI EN 303 687, clause 4.3.4.3.2. |

## 7.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.6.2.1.

## 7.3 TEST SETUP LAYOUT




## 7.4 TEST DEVIATION

There is no deviation with the original standard.

## 7.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously transmitting.

## 7.6 TEST RESULTS

Please refer to the Appendix F.

# 8. RECEIVER SPURIOUS EMISSIONS

## 8.1 LIMIT

<table>
<tr><th colspan="2">Receiver spurious emissions</th></tr>
<tr><th>Clause</th><th>Limit</th></tr>
<tr><td>4.3.5</td><td>The receiver spurious emissions shall not exceed the limits given in table below.
<table>
<tr><th>Frequency range</th><th>Maximum power</th><th>Measurement bandwidth</th></tr>
<tr><td>30 MHz ≤ f ≤ 1 GHz</td><td>-57 dBm</td><td>100 kHz</td></tr>
<tr><td>1 GHz < f ≤ 26 GHz</td><td>-47 dBm</td><td>1 MHz</td></tr>
<tr><td colspan="3">NOTE: Information in this table is based on ERC Recommendation 74-01 [i.10], annex 2, table 6.</td></tr>
</table></td></tr>
</table>

## 8.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.7.2.2.

## 8.3 TEST SETUP LAYOUT

Please refer to clause 6.3.

## 8.4 TEST DEVIATION

There is no deviation with the original standard.

## 8.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously receiving.

## 8.6 TEST RESULTS (30 MHZ TO 1000 MHZ)

Please refer to the Appendix G.

## 8.7 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix H.

# 9. CHANNEL ACCESS MECHANISM

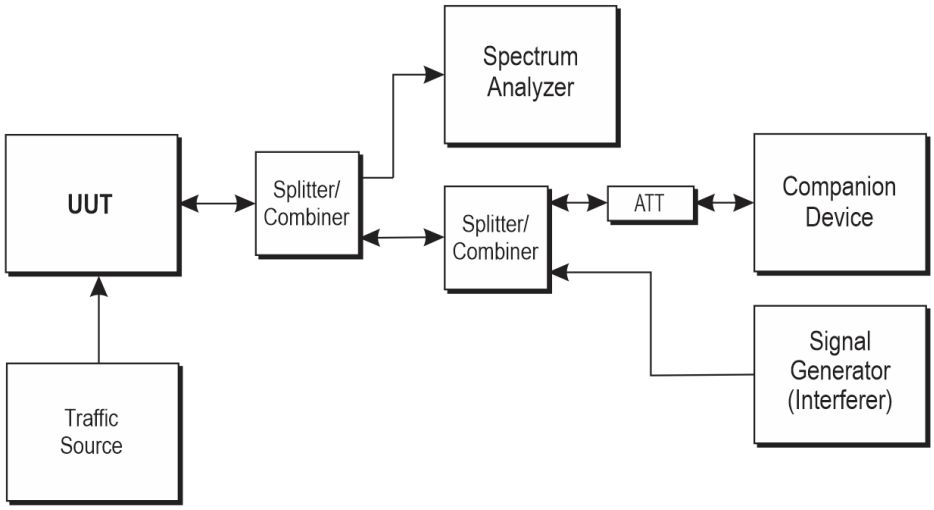
## 9.1 LIMIT

| Clause | Test Item | Limit |
|---|---|---|
| 4.3.6 | Channel access mechanism | Refer to ETSI EN 303 687, clause 4.3.6.3. |

## 9.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.8.3.2.

## 9.3 TEST SETUP




## 9.4 TEST DEVIATION

There is no deviation with the original standard.

## 9.5 EUT OPERATION DURING TEST

The measurements shall be performed during normal operation.

## 9.6 TEST RESULTS

Please refer to the Appendix I.

# 10. RECEIVER BLOCKING

## 10.1 LIMIT

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.
For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.
While maintaining the minimum performance criteria, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined in table below.

**LPI Receiver blocking parameters**

| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 2) | Type of blocking signal |
|---|---|---|---|
| $P_{min}$ + 6 dB | 5 895 (See note 3)<br>6 475 | -53 | Continuous Wave |
| $P_{min}$ + 6 dB | 5 695 (see note 3)<br>5 795 (see note 3)<br>6 575<br>6 675 | -47 | Continuous Wave |

NOTE 1: $P_{min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.3.7.2 in the absence of any blocking signal.
NOTE 2: The levels are specified at the UUT antenna connector(s). In case of radiated measurements on a UUT with an integral antenna equipment without external (temporary) antenna connector(s) provided, the equivalent Power Flux Density (PFD) at the UUT is the ratio of the level specified and the antenna area of the UUT antenna. In case of radiated measurements with a substitution antenna, the equivalent PFD at the said antenna is the ratio of the level specified and the antenna area of the substitution antenna.
NOTE 3: Where the equipment also supports WAS/RLAN operation in the 5 GHz bands compliant with ETSI EN 301 893 [i.12], this frequency is not to be tested.

**VLP Receiver Blocking Parameters**

| Wanted signal mean power from companion device (dBm) | Blocking signal frequency (MHz) | Blocking signal power (dBm) (see note 2) | Type of blocking signal |
|---|---|---|---|
| $P_{min}$ + 6 dB | 5 895 (See note 3)<br>6 475 | -58 | Continuous Wave |
| $P_{min}$ + 6 dB | 5 695 (See note 3)<br>5 795 (See note 3)<br>6 575<br>6 675 | | Continuous Wave |

NOTE 1: $P_{min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.3.7.2 in the absence of any blocking signal.

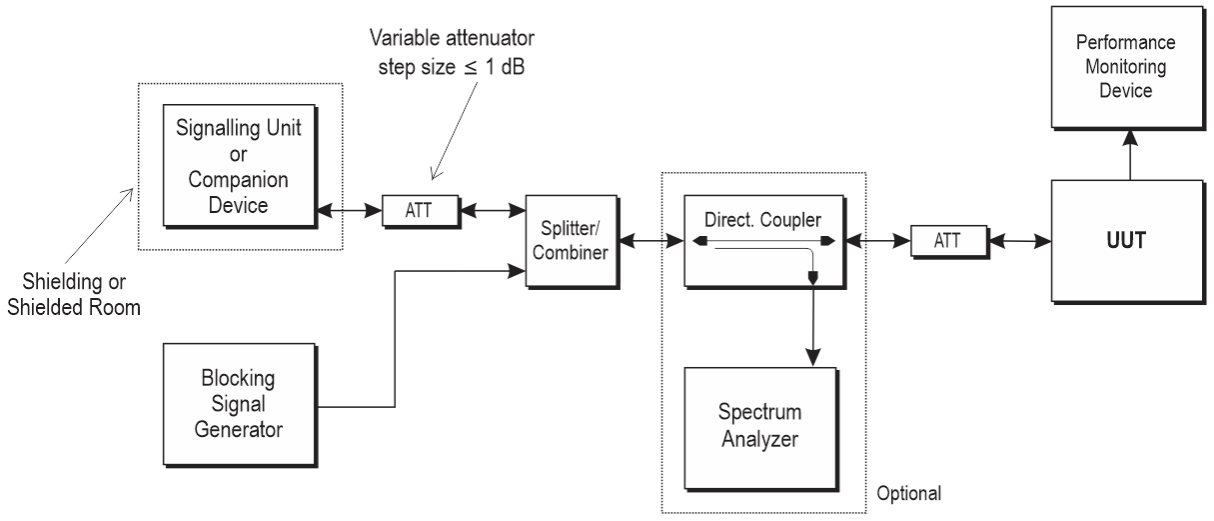
NOTE 2: The levels are specified at the UUT antenna connector(s). In case of radiated measurements on a UUT with an integral antenna equipment without external (temporary) antenna connector(s) provided, the equivalent Power Flux Density (PFD) at the UUT is the ratio of the level specified and the antenna area of the UUT antenna. In case of radiated measurements with a substitution antenna, the equivalent PFD at the said antenna is the ratio of the level specified and the antenna area of the substitution antenna.

NOTE 3: Where the equipment also supports WAS/RLAN operation in the 5 GHz bands compliant with ETSI EN 301 893 [i.12], this frequency is not to be tested.

## 10.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.9.2.1.

## 10.3 TEST SETUP




## 10.4 TEST DEVIATION

There is no deviation with the original standard.

## 10.5 EUT OPERATION DURING TEST

The measurements shall be performed during normal receiving.

## 10.6 TEST RESULTS

Please refer to the Appendix J.

# 11. RECEIVER SELECTIVITY

## 11.1 LIMIT

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.
For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.
The limits defined below apply when the equipment operates on a single 20 MHz channel and the interfering signal falls completely within the adjacent or alternate adjacent 20 MHz channels.
While maintaining the minimum performance criteria, the interferer signal power level shall be equal to or greater than the limit given in table below corresponding to a frequency offset within the range specified in below.

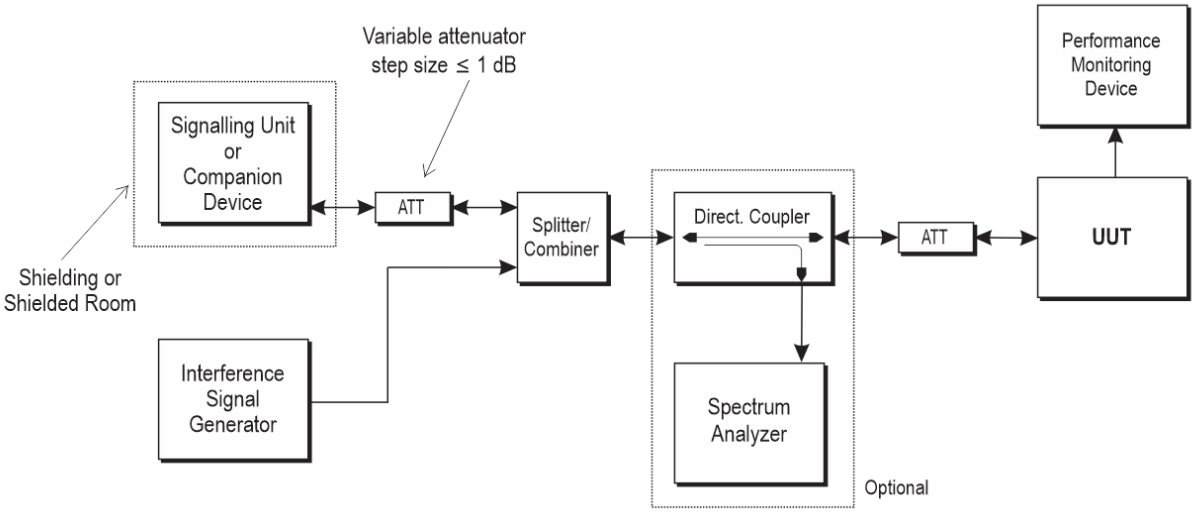
| Wanted signal mean power from companion device (dBm) | Interferer signal frequency offset (MHz) | Interferer signal power (dBm) (see note 2 and note 3) | Type of interferer signal |
|---|---|---|---|
| $P_{min}$ + 10 dB | 20 (see note 4) | $P_{min}$ + 26 dB | Same as the wanted signal with an equivalent nominal bandwidth |
| $P_{min}$ + 10 dB | 40 (see note 4) | $P_{min}$ + 32 dB | Same as the wanted signal with an equivalent nominal bandwidth |

NOTE 1: $P_{min}$ is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.3.8.2 in the absence of any interfering signal.
NOTE 2: The levels are specified at the UUT antenna connector(s). In case of radiated measurements on a UUT with an integral antenna equipment without external (temporary) antenna connector(s) provided, the equivalent Power Flux Density (PFD) at the UUT is the ratio of the level specified and the antenna area of the UUT antenna. In case of radiated measurements with a substitution antenna, the equivalent PFD at the said antenna is the ratio of the level specified and the antenna area of the substitution antenna.
NOTE 3: The level specified for the interferer signal applies at the lowest data rate
NOTE 4: The requirement applies with one interferer signal confined within the range 5 945 MHz to 6 425 MHz for interferer frequencies on either side of the wanted signal. The interferer signal frequency offset is the absolute value of the frequency separation between the interferer centre frequency and the nominal centre frequency of the wanted signal. If the manufacturer decides to make use of the permitted frequency offset of the nominal centre frequency of the wanted signal as specified in clause 4.3.1.3, a maximum offset of the interferer centre frequency offset of ±200 kHz from the said nominal centre frequencies and a resulting offset of the interferer signal frequency offset of up to ±400 kHz are also permitted.

## 11.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.10.2.1.

## 11.3 TEST SETUP




## 11.4 TEST DEVIATION

There is no deviation with the original standard.

## 11.5 EUT OPERATION DURING TEST

The measurements shall be performed during normal receiving.

## 11.6 TEST RESULTS

Please refer to the Appendix K.

# 12. VLP NB USAGE WITH A PSD ABOVE 1 DBM/MHZ

## 12.1 LIMIT

The duty cycle of NarrowBand (NB) transmissions by a VLP device with a PSD above 1 dBm/MHz shall not exceed 1/15 on any transmission frequency.
NB devices require a frequency hopping mechanism based on at least 15 hop frequencies and meet the above duty cycle to operate at a PSD value above 1 dBm/MHz.
NOTE: Frequency hopping in the context of the present document implies the use of the channel access mechanisms and channelization as defined in the present document.

## 12.2 TEST PROCEDURES

Refer to ETSI EN 303 687, clause 5.4.12.2.1.

## 12.3 TEST SETUP LAYOUT




## 12.4 TEST DEVIATION

There is no deviation with the original standard.

## 12.5 EUT OPERATION DURING TEST

The measurements shall be performed during continuously transmitting.

## 12.6 TEST RESULTS

Please refer to the Appendix L.

## 13. MEASUREMENT INSTRUMENTS LIST

| Nominal centre frequencies | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Measurement Software | keysight | IOT0047A | N/A | N/A |
| 2 | EXA Spectrum Analyzer | Agilent | N9010A | MY50520044 | Dec. 06, 2025 |
| 3 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 4 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 5 | Cable | RegalWay | 20210802 016 | RWP50-402-SMS M-1M | N/A |

| RF output power | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | 4TX Mimo Power Test Set | Keysight | X8750A | MY59400118 | N/A |
| 2 | USB Peak and Average Power Sensor | Keysight | U2063XA | MY58000233 | May 31, 2025 |
| 3 | USB Peak and Average Power Sensor | Keysight | U2063XA | MY58000234 | May 31, 2025 |
| 4 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 5 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 6 | Cable | RegalWay | 20240202 020 | RWP50-402-SMS M-1M | N/A |
| 7 | Cable | RegalWay | 20210802 016 | RWP50-402-SMS M-1M | N/A |
| 8 | Desktop Constant Temperature Chamber | BELL | BTH-50C | 20170306001 | Jan. 10, 2026 |
| 9 | Measurement Software | keysight | IOT0047A | N/A | N/A |

| Power spectral density & Transmitter and Receiver Spurious Emission (Conducted Measurement) & Transmitter unwanted emissions within the 6 GHz WAS/RLAN band | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | 4TX Mimo Power Test Set | Keysight | X8750A | MY59400118 | N/A |
| 2 | USB Peak and Average Power Sensor | Keysight | U2063XA | MY58000233 | May 31, 2025 |
| 3 | USB Peak and Average Power Sensor | Keysight | U2063XA | MY58000234 | May 31, 2025 |
| 4 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 5 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 6 | Cable | RegalWay | 20240202 020 | RWP50-402-SMSM-1M | N/A |
| 7 | Cable | RegalWay | 20210802 016 | RWP50-402-SMSM-1M | N/A |
| 8 | Cable | RegalWay | 20210802 015 | RWP50-402-SMSM-1M | N/A |
| 9 | Measurement Software | keysight | IOT0047A | N/A | N/A |
| 10 | EXA Spectrum Analyzer | Agilent | N9010A | MY50520044 | Dec. 06, 2025 |
| 11 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |
| 12 | Isolation attenuator | Z-Link | ASMA-10-18-2W | N/A | N/A |

| Receiver blocking & Receiver selectivity | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | EXA Spectrum Analyzer | Agilent | N9010A | MY50520044 | Dec. 06, 2025 |
| 2 | MXG Vector Signal Generator | Keysight | N5182B | MY57300568 | May 17, 2026 |
| 3 | Frequency Extender | Keysight | N5182BX07 | MY59362506 | May 17, 2026 |
| 4 | Power Splitter | N/A | N/A | SZ201504933 | Dec. 06, 2025 |
| 5 | Power Splitter | Mini-Circuits | ZN4PD-642W-S+ | SN806321618-1 | May 17, 2026 |
| 6 | Shielding box | Jiachen | JC-PB2015 | N/A | N/A |
| 7 | Cable | RegalWay | N/A | RWP50-402-SMSM-1M | N/A |
| 8 | Cable | RegalWay | N/A | RWP50-402-SMSM-1M | N/A |
| 9 | Cable | RegalWay | N/A | RWP50-402-SMSM-1M | N/A |
| 10 | Cable | Woke | N/A | N/A | N/A |
| 11 | Cable | Woke | N/A | RWP50-402-SMSM-1M | N/A |
| 12 | Cable | RegalWay | N/A | RWP50-402-SMSM-2M | N/A |
| 13 | Power Splitter | Mini-Circuits | ZN4PD-642W-S+ | SN806321618-2 | May 17, 2026 |
| 14 | Archer TXE75E | TP-LINK | TXE75E | N/A | N/A |
| 15 | Cable | RegalWay | N/A | RWP50-402-SMSM-1M | N/A |
| 16 | Attenuator | RegalWay | RWPA-6000-110-MA | N/A | May 27, 2026 |

| Channel access mechanism | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | EXA Spectrum Analyzer | Agilent | N9010A | MY50520044 | Dec. 06, 2025 |
| 2 | MXG Vector Signal Generator | Keysight | N5182B | MY57300568 | May 17, 2026 |
| 3 | Frequency Extender | Keysight | N5182BX07 | MY59362506 | May 17, 2026 |
| 4 | Power Splitter | N/A | N/A | SZ201504789 | Dec. 06, 2025 |
| 5 | Power Splitter | N/A | N/A | SZ201504933 | Dec. 06, 2025 |
| 6 | Shielding box | Jiachen | JC-PB2015 | N/A | N/A |
| 7 | Signal Conditioning Test Set | Keysight | X8749A | MY59400120 | N/A |
| 8 | Cable | RegalWay | 20210802 016 | RWP50-402-SMSM-1M | N/A |
| 9 | Cable | RegalWay | 20210802 002 | RWP50-402-SMSM-1M | N/A |
| 10 | Cable | RegalWay | 20210802 005 | RWP50-402-SMSM-1M | N/A |
| 11 | Cable | Woke | 20210802 005 | RWP50-402-SMSM-1M | N/A |
| 12 | Cable | RegalWay | 20240202 006 | RWP50-402-SMSM-2M | N/A |
| 13 | Archer TXE75E | TP-LINK | TXE75E | N/A | N/A |
| 14 | Measurement Software | keysight | IOT0047A | N/A | N/A |

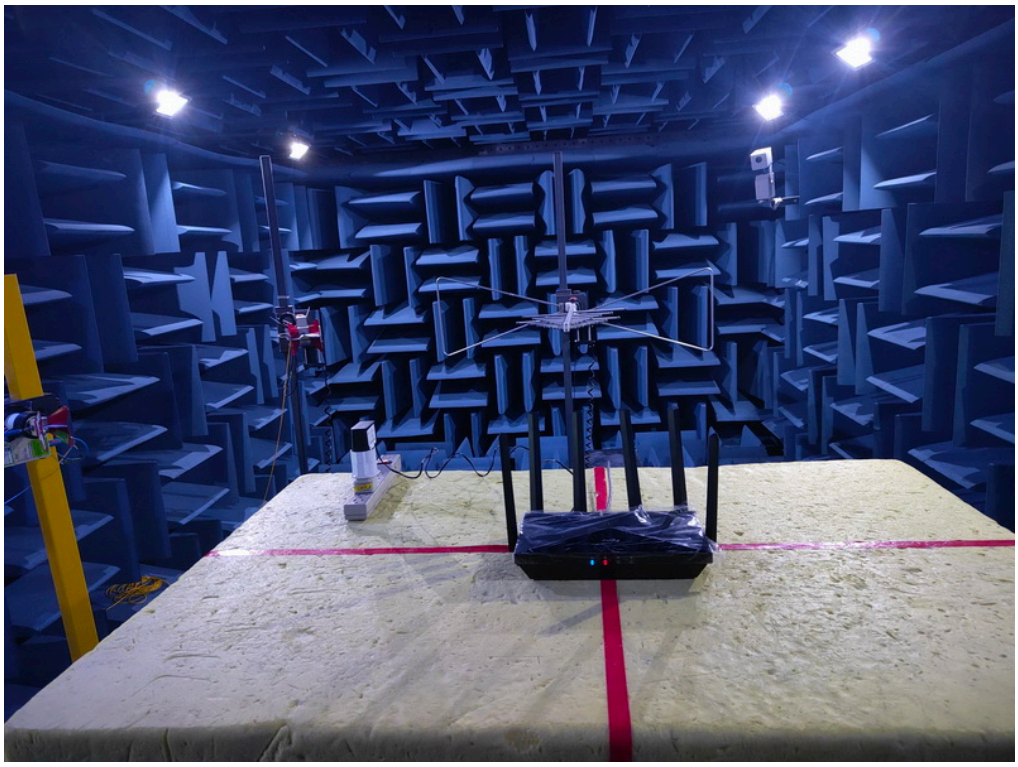
| Transmitter and Receiver Spurious Emission (Radiated Measurement)_Below 1GHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Preamplifier | EMC INSTRUMENT | EMC001330 | 980985 | May 31, 2025 |
| 2 | Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 3 | FSV Signal Analyzer | R&S | FSV7 | 101908 | Dec. 06, 2025 |
| 4 | Automatic Switching unit of high and low frequency line wave device | Tonscend | JS0806-F | 20E8060252 | N/A |
| 5 | Cable | Tonscend | LMR240-NMSM-7.5M | N/A | N/A |
| 6 | Cable | Tonscend | LMR240-NMSM-4.5M | N/A | N/A |
| 7 | Cable | Tonscend | LMR240-NMSM-3M | N/A | N/A |
| 8 | Attenuator | SHX | TS2-6-6-A | 240124195 | May 21, 2025 |
| 9 | Trilog-Broadband Antenna | Schwarzbeck | VULB9160 | 9160-3232 | May 21, 2025 |
| 10 | Measurement Software | Tonscend | RSE JS36-RSE 2.5.1.5 | N/A | N/A |

| Transmitter and Receiver Spurious Emission (Radiated Measurement)_Above 1GHz | | | | | |
|---|---|---|---|---|---|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | FSV Signal Analyzer | R&S | FSV40 | 101423 | May 31, 2025 |
| 2 | Cable | Tonscend | SFT205-NMNMR-2.50M | N/A | N/A |
| 3 | Cable | Tonscend | HF160-KMKM-5.00M | N/A | N/A |
| 4 | Cable | Tonscend | HF160-KMKM-0.5M | N/A | N/A |
| 5 | Pre-Amplifier | EMC INSTRUMENT | EMC184045SE | 980409 | Dec. 06, 2025 |
| 6 | DRG Horn Antenna | ETS | 3116C | 218942 | Feb. 28, 2026 |
| 7 | Preamplifier | ETS-LINDGREN | 3117-PA | 224172 | May 31, 2025 |
| 8 | DRG Horn Antenna | ETS | 3117-PA | 221576 | Jul. 17, 2025 |
| 9 | Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 10 | Automatic Switching unit of high and low frequency line wave device | Tonscend | JS0806-F | 20E8060252 | N/A |
| 11 | Pre-Amplifier | Tonscend | TAP-011858 | AP20E806077 | May 31, 2025 |
| 12 | Measurement Software | Tonscend | RSE JS36-RSE 2.5.1.5 | N/A | N/A |

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

## 14. EUT TEST PHOTO

**Radiated Emissions Test Photos**





# APPENDIX A - CENTRE FREQUENCIES

| Test Mode: IEEE 802.11be(EHT20) | | |
|---|---|---|
| Test Conditions | | Measurement Frequency (MHz) |
| | | 5955 |
| T nom(°C) | 21 | 5954.960 |
| T min(°C) | 0 | 5955.008 |
| T max(°C) | 40 | 5954.976 |
| Max. Deviation Frequency | | -0.040 |
| Max. Frequency Error (ppm) | | -6.7236 |
| Limit (ppm) | | ±20.00 |
| Result | | Pass |

# APPENDIX B - RF OUTPUT POWER

| Test Mode: IEEE 802.11be(EHT20) Mode | | | |
|---|---|---|---|
| Test Conditions | | e.i.r.p. ( dBm ) | |
| | | 5955 MHz | 6415 MHz |
| T nom (°C) | 20-23 | 21.32 | 21.27 |
| T min (°C) | 0 | 21.59 | 21.66 |
| T max (°C) | 40 | 21.26 | 21.15 |
| Max. e.i.r.p. | | 21.66 | |
| Limit | | 23 | |
| Result | | Pass | |

| Test Mode: IEEE 802.11be(EHT40) Mode | | | |
|---|---|---|---|
| Test Conditions | | e.i.r.p. ( dBm ) | |
| | | 5965 MHz | 6405 MHz |
| T nom (°C) | 20-23 | 22.40 | 22.16 |
| T min (°C) | 0 | 22.82 | 22.49 |
| T max (°C) | 40 | 22.24 | 22.01 |
| Max. e.i.r.p. | | 22.82 | |
| Limit | | 23 | |
| Result | | Pass | |

| Test Mode: IEEE 802.11be(EHT80) Mode | | | |
|---|---|---|---|
| Test Conditions | | e.i.r.p. ( dBm ) | |
| | | 5985 MHz | 6385 MHz |
| T nom (°C) | 20-23 | 22.38 | 22.51 |
| T min (°C) | 0 | 22.63 | 22.90 |
| T max (°C) | 40 | 22.25 | 22.41 |
| Max. e.i.r.p. | | 22.90 | |
| Limit | | 23 | |
| Result | | Pass | |

| Test Mode: IEEE 802.11be(EHT160) Mode | | | |
|---|---|---|---|
| Test Conditions | | e.i.r.p. ( dBm ) | |
| | | 6025 MHz | 6345 MHz |
| T nom (°C) | 20-23 | 22.39 | 22.27 |
| T min (°C) | 0 | 22.76 | 22.51 |
| T max (°C) | 40 | 22.34 | 22.15 |
| Max. e.i.r.p. | | 22.76 | |
| Limit | | 23 | |
| Result | | Pass | |

| Test Mode: IEEE 802.11be(EHT320) Mode | | | |
|---|---|---|---|
| Test Conditions | | e.i.r.p. ( dBm ) | |
| | | 6105 MHz | 6265 MHz |
| T nom (°C) | 20-23 | 22.45 | 22.56 |
| T min (°C) | 0 | 22.74 | 22.92 |
| T max (°C) | 40 | 22.35 | 22.45 |
| Max. e.i.r.p. | | 22.92 | |
| Limit | | 23 | |
| Result | | Pass | |

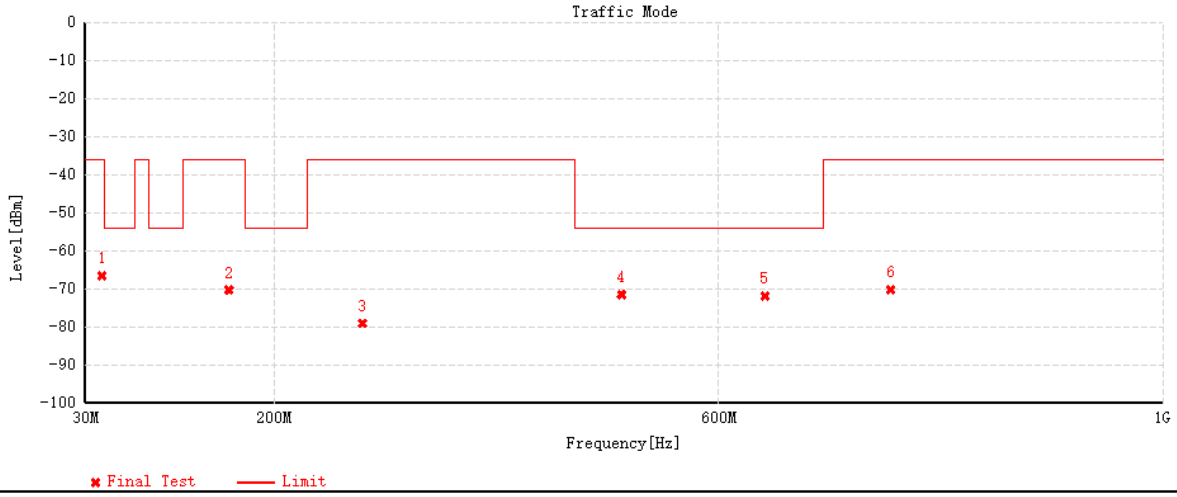
Note:
1) e.i.r.p. = Conducted output power + G (Ant Gain)
2) Conducted output power = Measure result + Cable loss

# APPENDIX C - POWER SPECTRAL DENSITY

| Test Mode: IEEE 802.11be(EHT20) | | | |
|---|---|---|---|
| Test Conditions | | Spectral Power Density e.i.r.p. ( dBm / MHz ) | |
| | | 5955 | 6415 |
| T nom (°C) | 21 | 9.56 | 9.8 |
| Limit | | 10 | |
| Result | | Pass | |

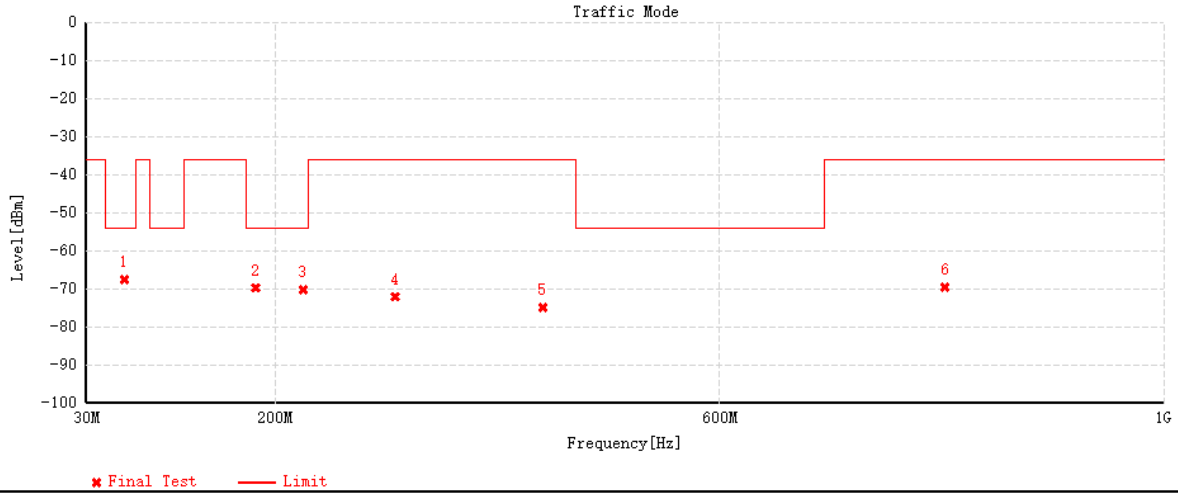
# APPENDIX D - TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 6 GHZ WAS/RLAN BAND (30MHZ TO 1000MHZ)

| Test Mode | TX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Vertical |
|---|---|---|---|




| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 44.8410 | -64.99 | -1.46 | -66.45 | -36 | 30.45 | RMS | Vertical |
| 2 | 159.1070 | -70.73 | 0.46 | -70.27 | -36 | 34.27 | RMS | Vertical |
| 3 | 279.5810 | -78.19 | -0.78 | -78.97 | -36 | 42.97 | RMS | Vertical |
| 4 | 512.4780 | -76.14 | 4.71 | -71.43 | -54 | 17.43 | RMS | Vertical |
| 5 | 641.5850 | -80.31 | 8.53 | -71.78 | -54 | 17.78 | RMS | Vertical |
| 6 | 754.5900 | -80.57 | 10.43 | -70.14 | -36 | 34.14 | RMS | Vertical |

| Test Mode | TX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Horizontal |
|---|---|---|---|



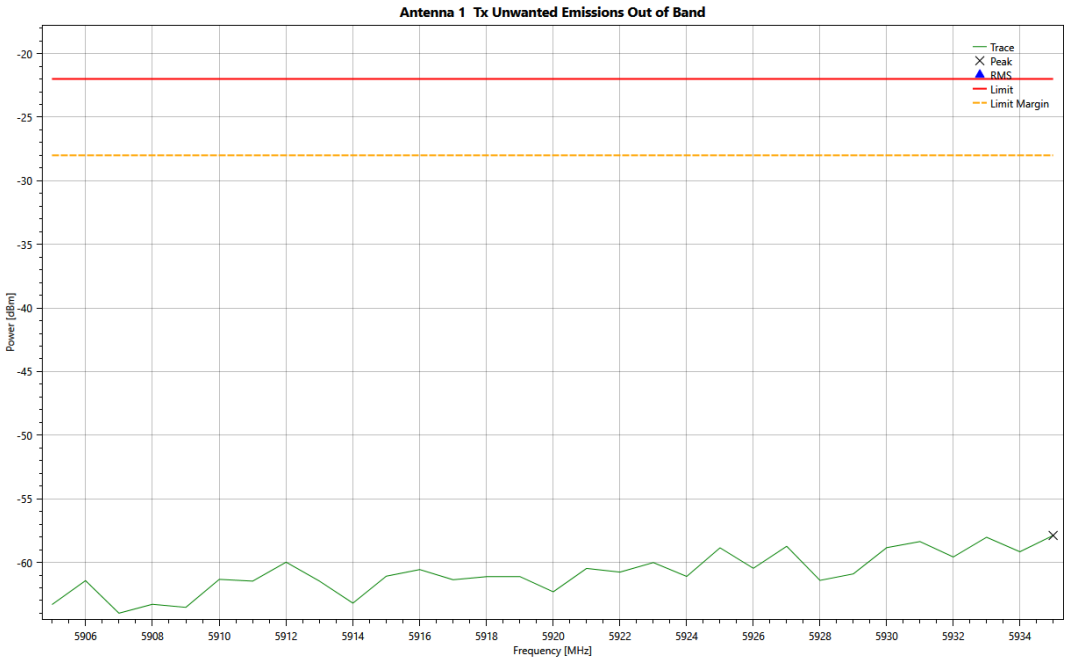

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 64.1440 | -62.8 | -4.66 | -67.46 | -54 | 13.46 | RMS | Horizontal |
| 2 | 182.2900 | -69.43 | -0.22 | -69.65 | -54 | 15.65 | RMS | Horizontal |
| 3 | 224.9700 | -67.61 | -2.52 | -70.13 | -54 | 16.13 | RMS | Horizontal |
| 4 | 307.9050 | -71.34 | -0.67 | -72.01 | -36 | 36.01 | RMS | Horizontal |
| 5 | 440.5040 | -78.08 | 3.25 | -74.83 | -36 | 38.83 | RMS | Horizontal |
| 6 | 802.8960 | -80.57 | 11.11 | -69.46 | -36 | 33.46 | RMS | Horizontal |

# APPENDIX E - TRANSMITTER UNWANTED EMISSIONS OUTSIDE THE 6 GHZ WAS/RLAN BAND (ABOVE 1000MHZ)

**Out-of-band domain**

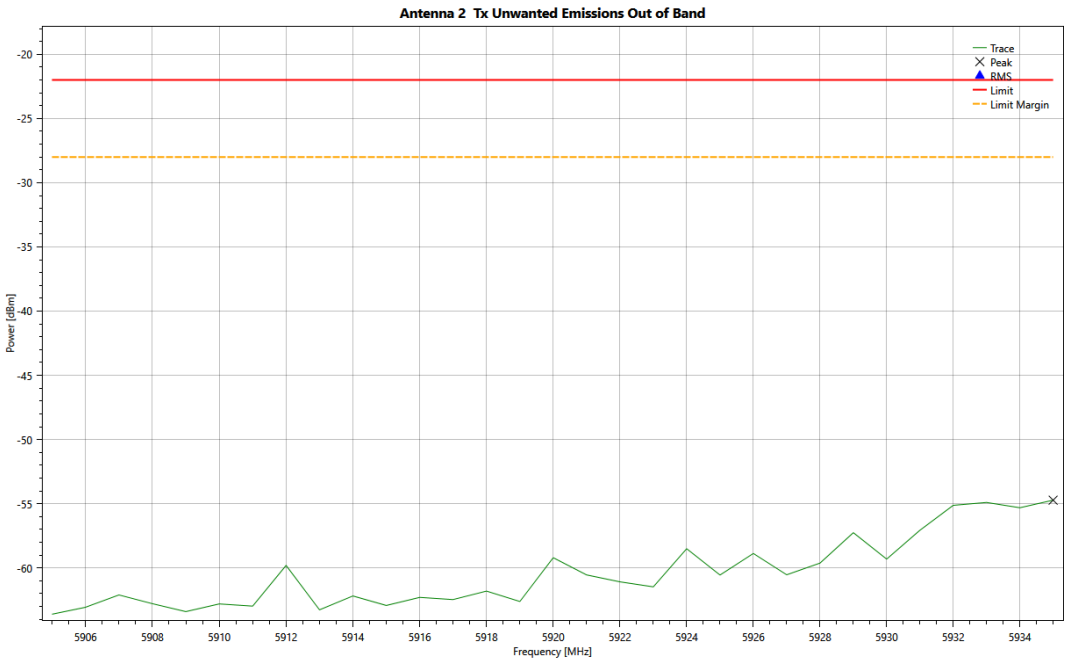
| Test Mode | TX Mode IEEE 802.11be(EHT20) |
|---|---|

TX Mode_5955MHz




Peak

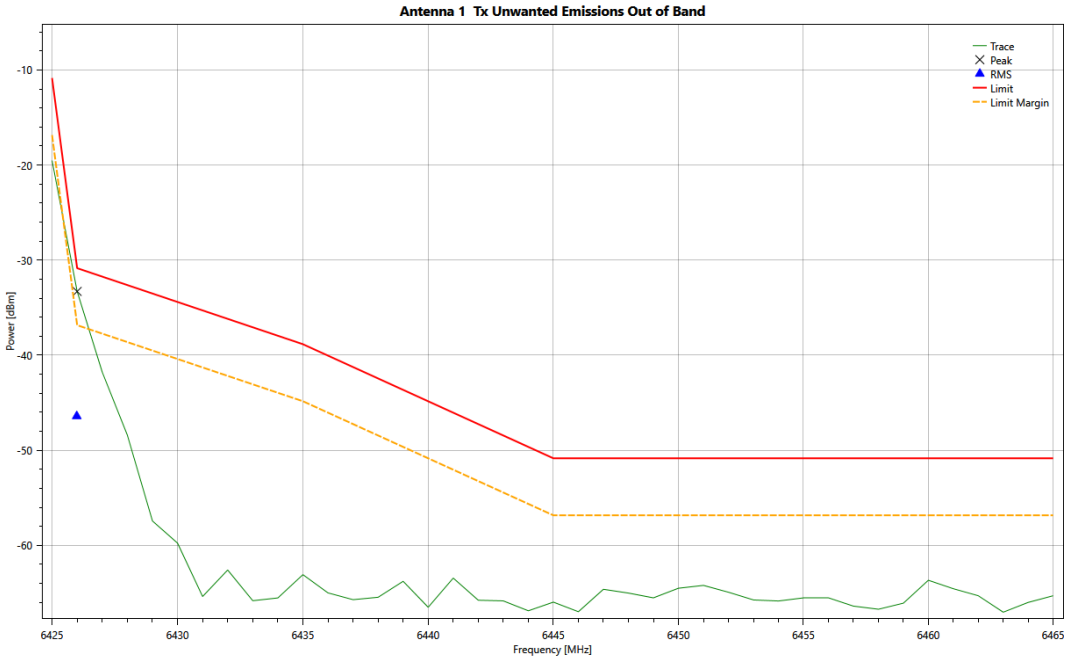
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,935.00 | -57.88 | -22.00 | -35.88 | Pass |




Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,935.00 | -54.72 | -22.00 | -32.72 | Pass |

TX Mode_6415MHz

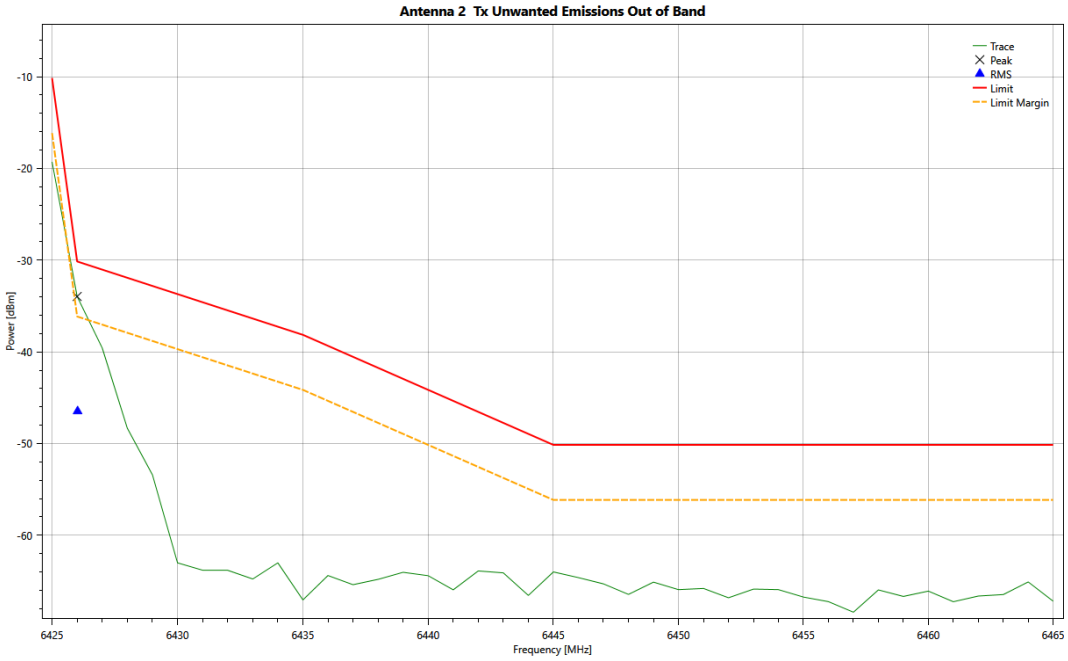



Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.00 | -33.29 | -30.84 | -2.45 | Fail |

RMS

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,425.98 | -46.41 | -30.53 | -15.88 | Pass |




Peak

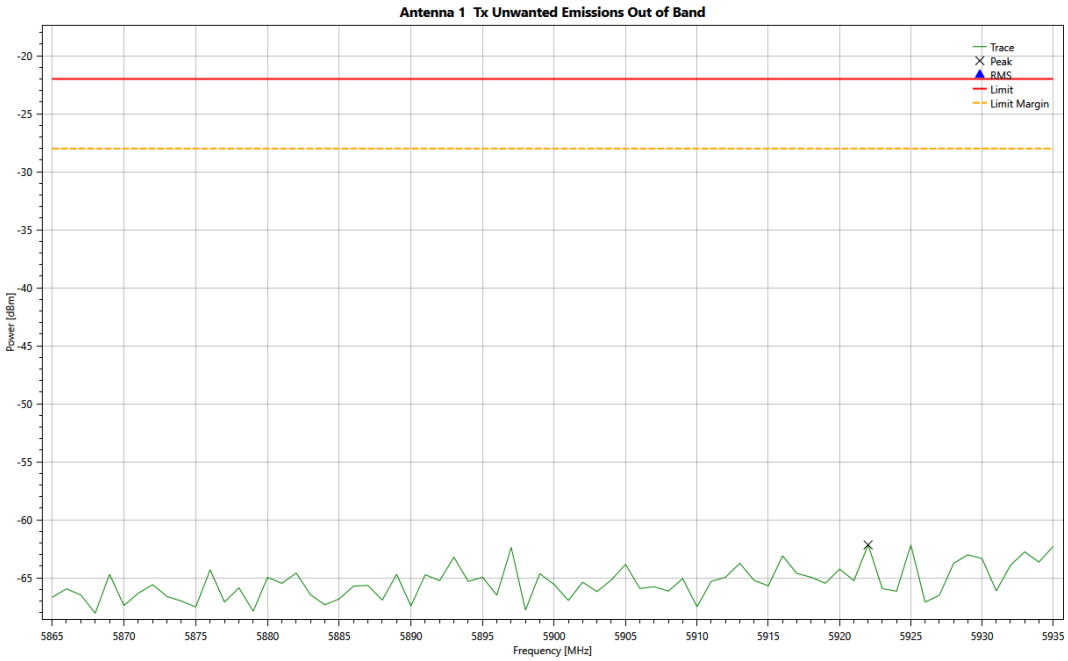
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.00 | -33.96 | -30.14 | -3.82 | Fail |

RMS

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.02 | -46.47 | -30.16 | -16.31 | Pass |

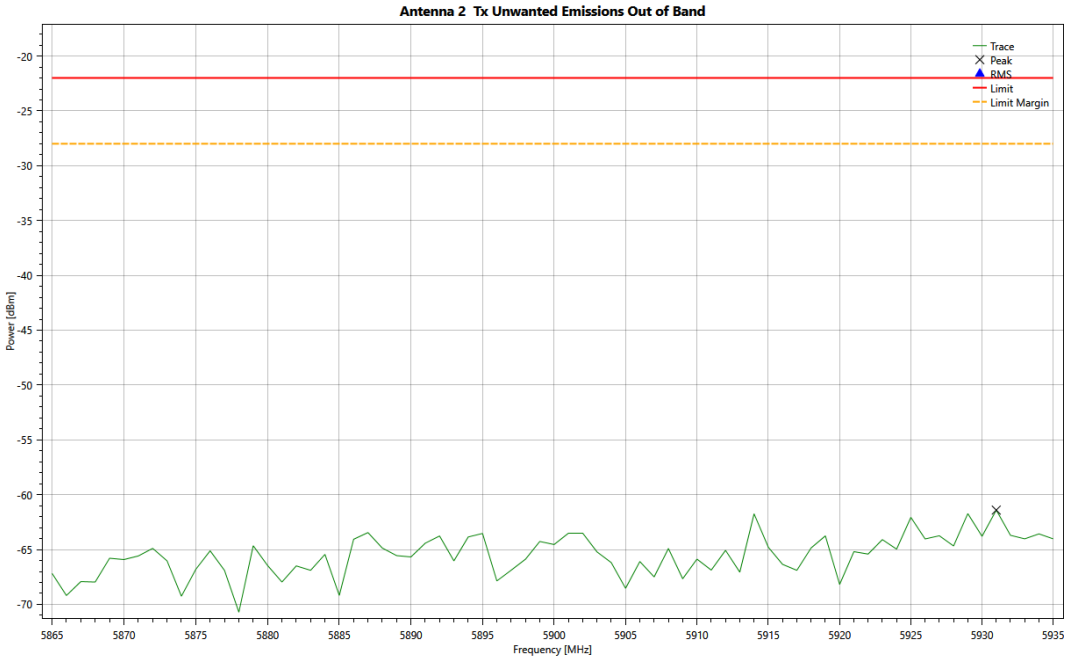
| Test Mode | TX Mode IEEE 802.11be(EHT40) |
|---|---|

TX Mode_5965MHz




Peak

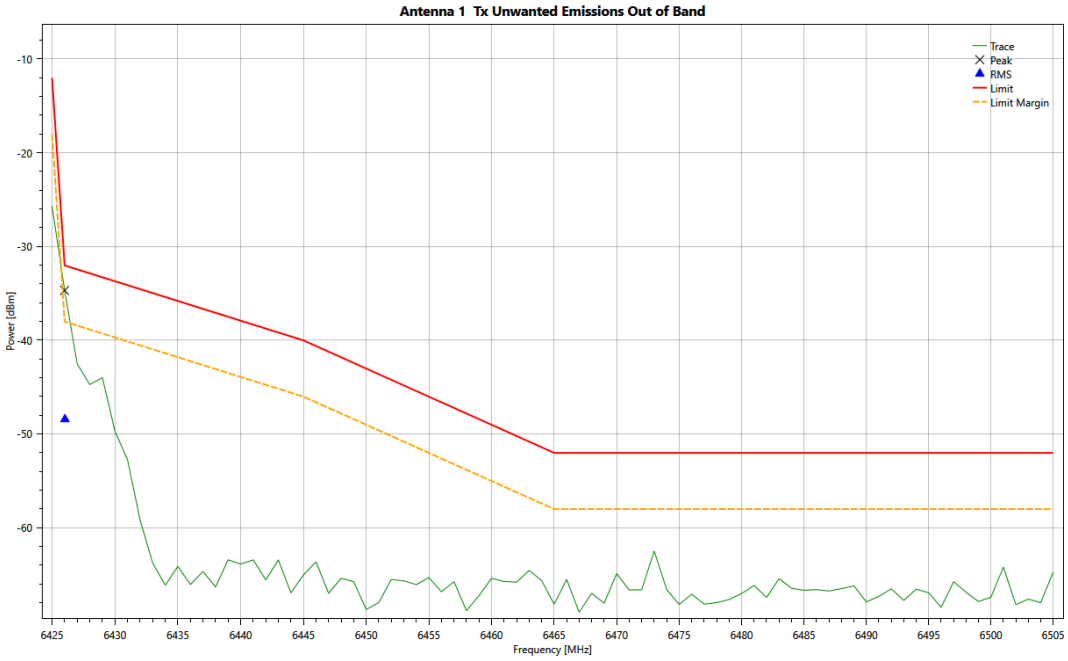
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,922.00 | -62.16 | -22.00 | -40.16 | Pass |




Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,931.00 | -61.40 | -22.00 | -39.40 | Pass |

TX Mode_6405MHz

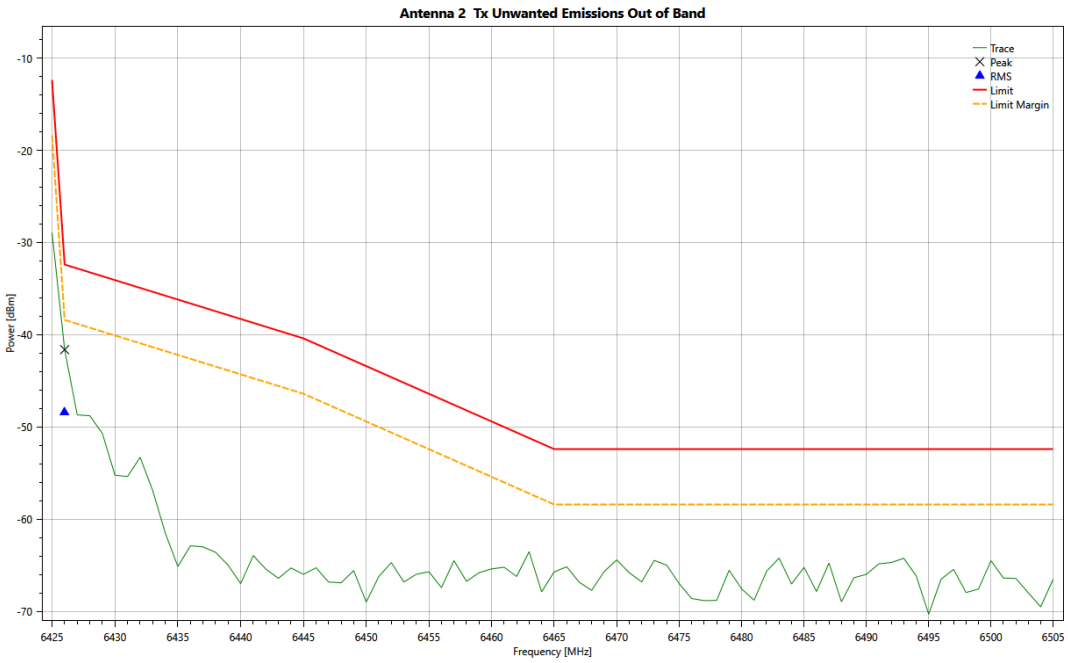



Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.00 | -34.69 | -32.02 | -2.67 | Fail |

RMS

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.02 | -48.44 | -32.03 | -16.41 | Pass |




Peak

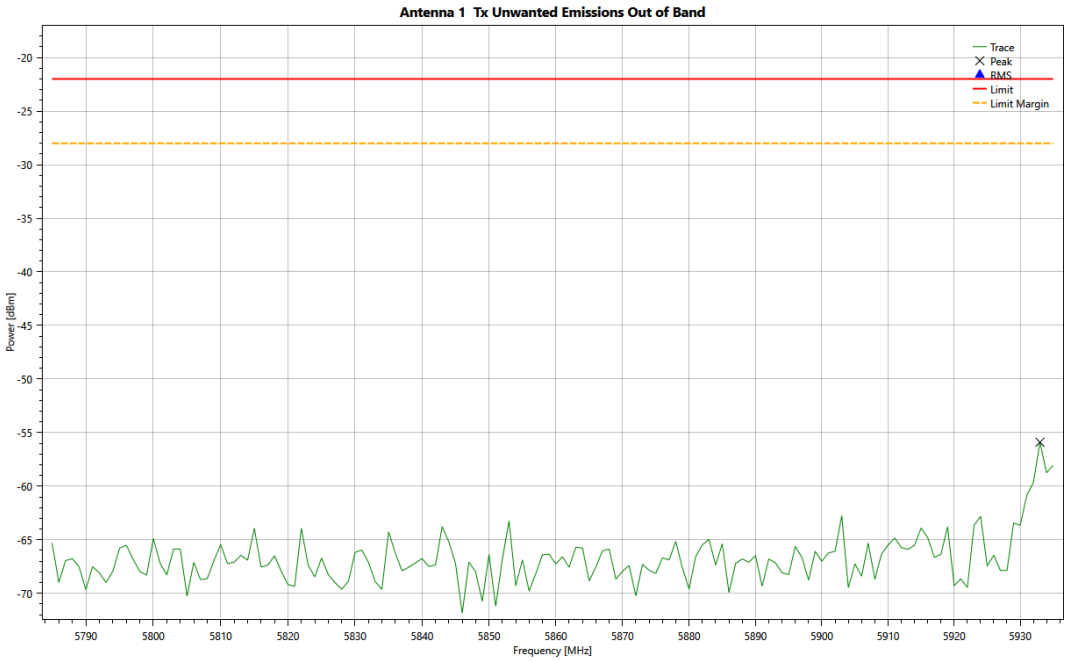
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.00 | -41.60 | -32.38 | -9.22 | Pass |

RMS

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,425.98 | -48.39 | -32.00 | -16.39 | Pass |

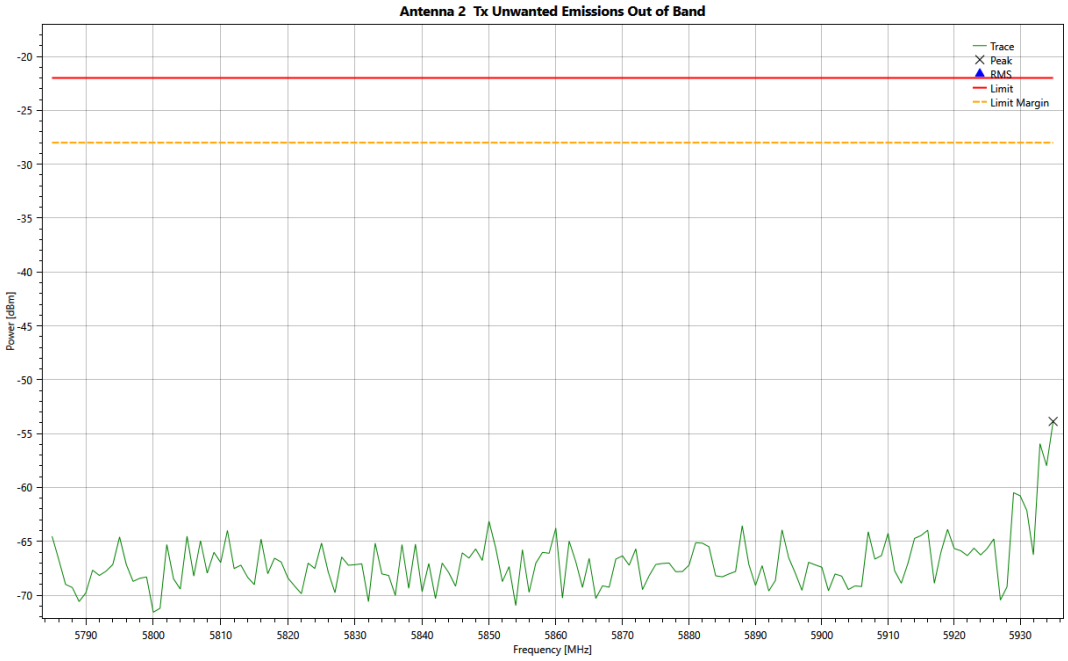
| Test Mode | TX Mode IEEE 802.11be(EHT80) |
|---|---|

TX Mode_5985MHz




Peak

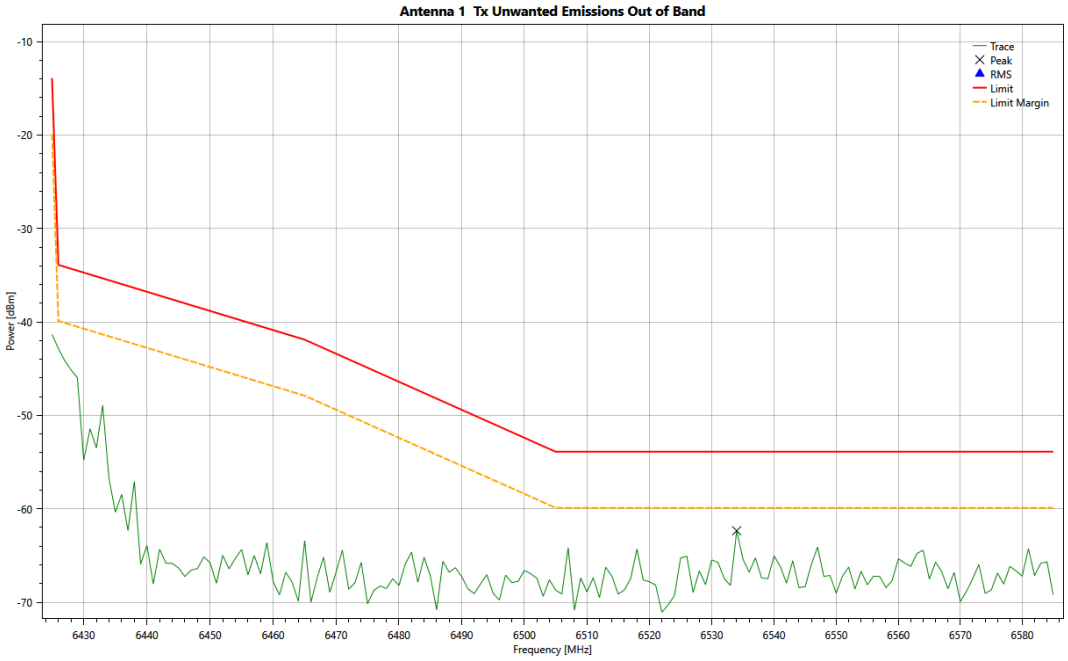
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,933.00 | -55.90 | -22.00 | -33.90 | Pass |




Peak

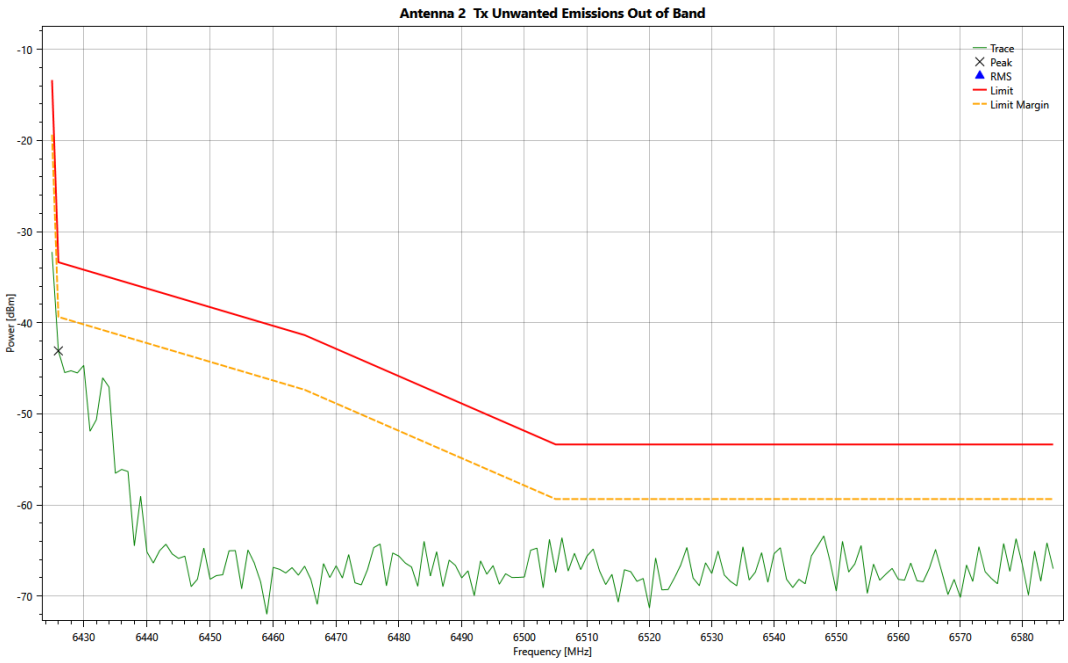
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,935.00 | -53.87 | -22.00 | -31.87 | Pass |

TX Mode_6385MHz




Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,534.00 | -62.34 | -53.89 | -8.45 | Pass |

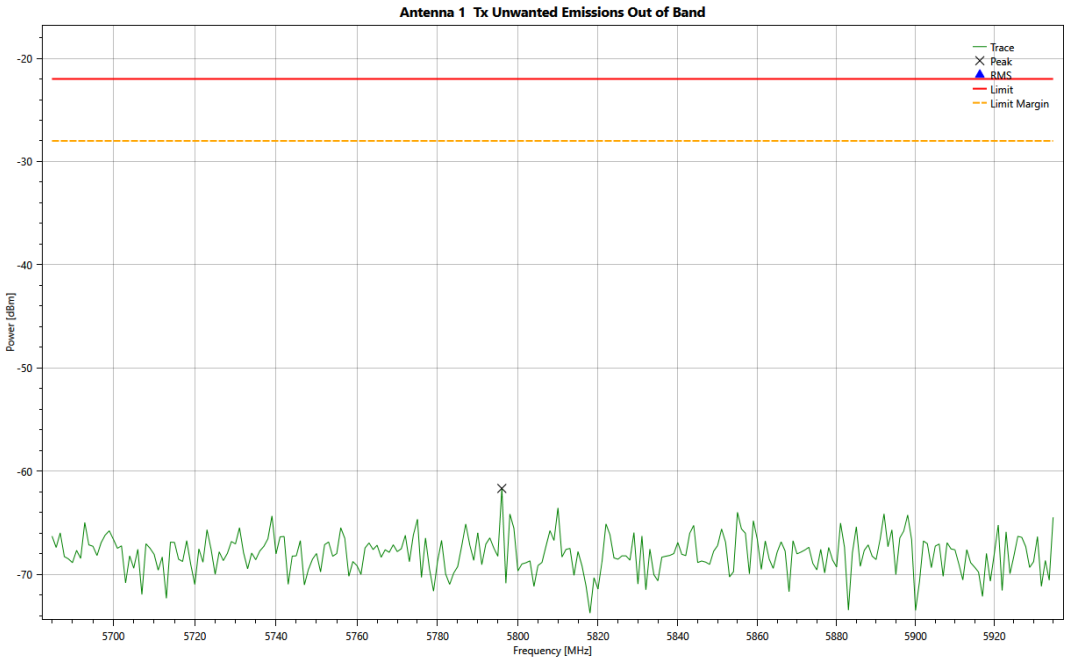



Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,426.00 | -43.09 | -33.36 | -9.73 | Pass |

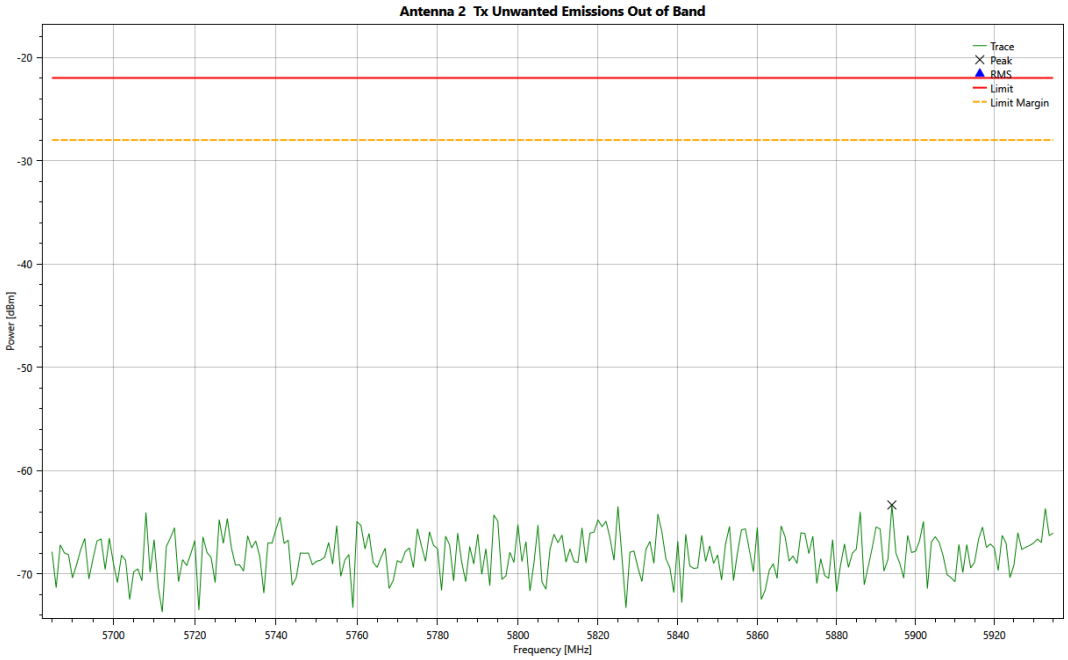
| Test Mode | TX Mode IEEE 802.11be(EHT160) |
|---|---|

TX Mode_6025MHz




Peak

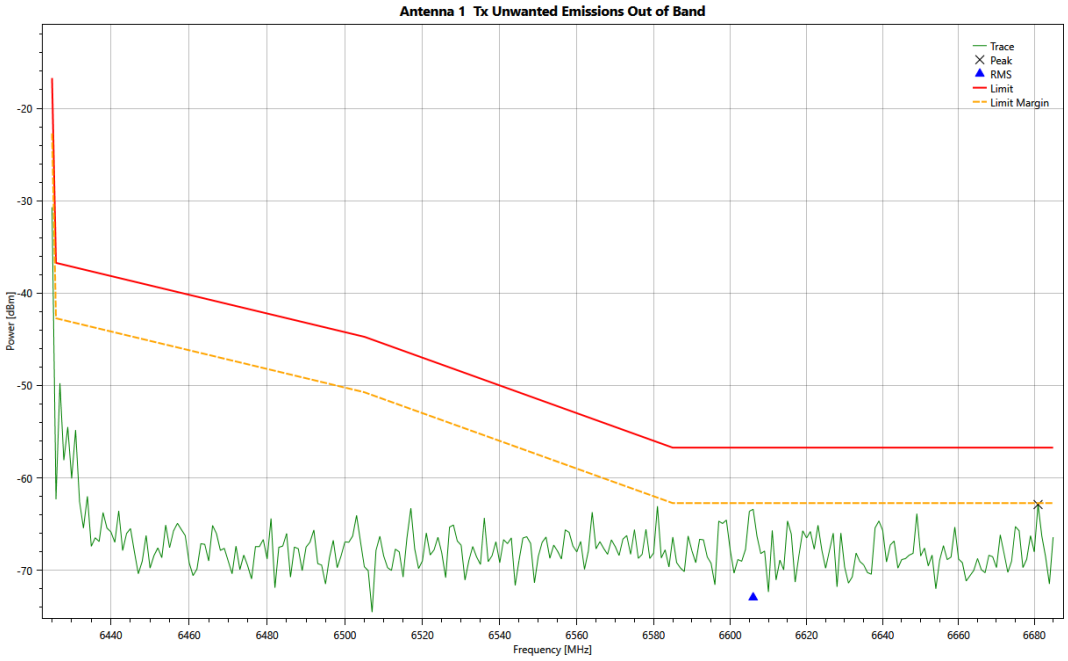
| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,796.00 | -61.68 | -22.00 | -39.68 | Pass |




Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 5,894.00 | -63.33 | -22.00 | -41.33 | Pass |

TX Mode_6345MHz

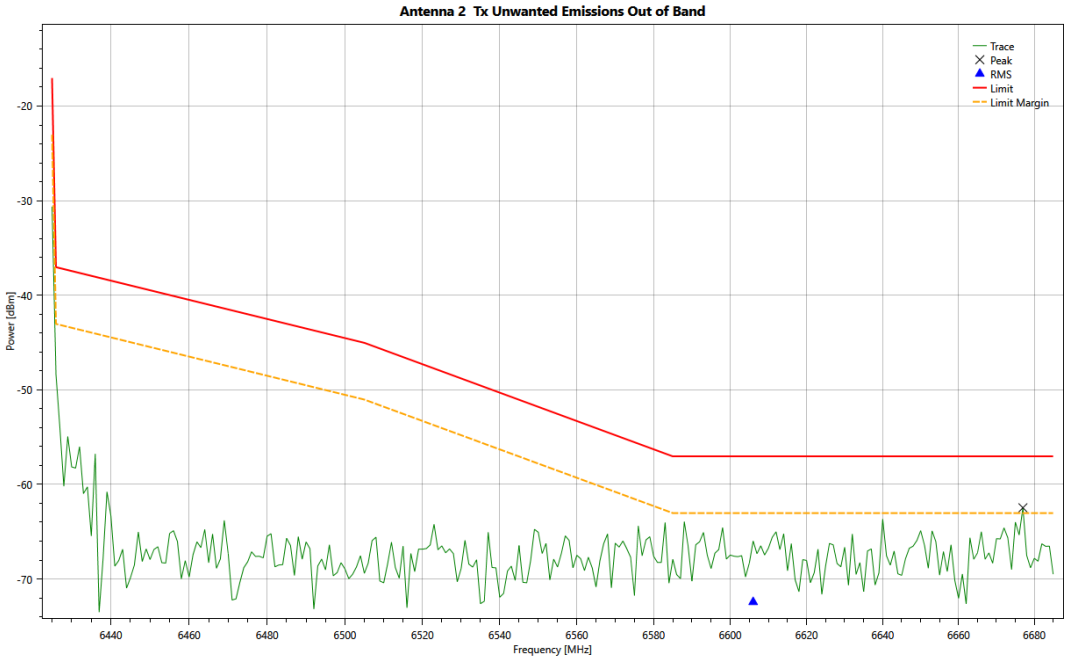



Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,681.00 | -62.87 | -56.72 | -6.15 | Pass |

RMS

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,606.00 | -72.93 | -56.72 | -16.21 | Pass |




Peak

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,677.00 | -62.47 | -57.03 | -5.44 | Fail |

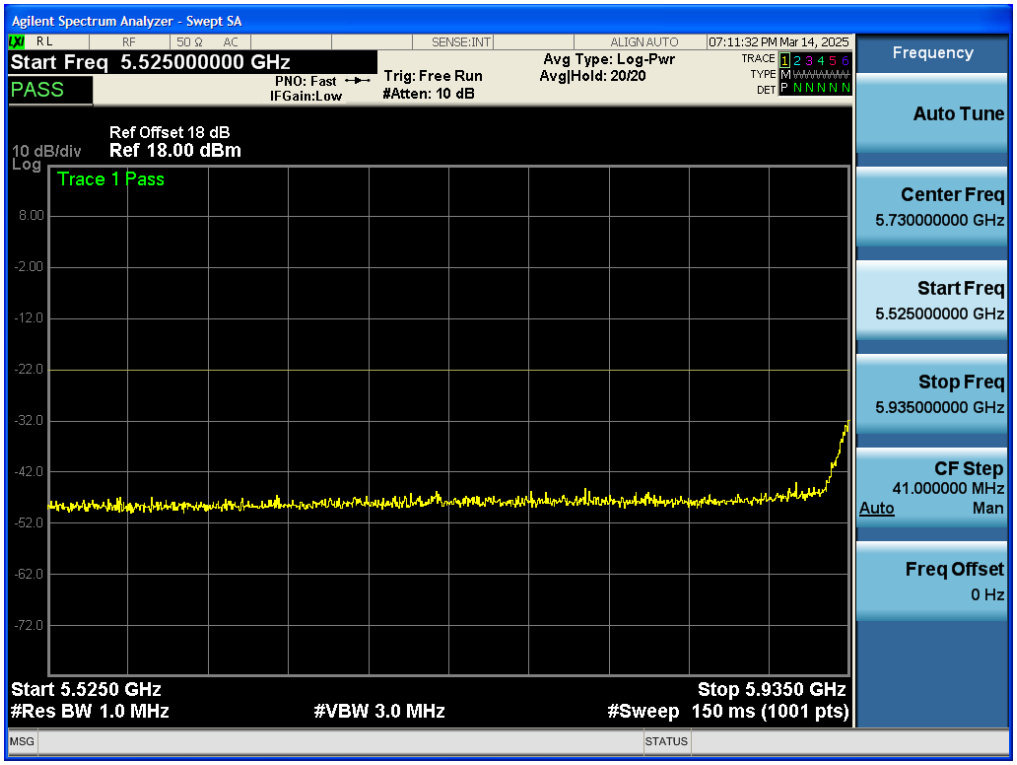
RMS

| Freq (MHz) | Emission (dBm) | Limit (dBm) | Over Limit (dB) | Status |
|---|---|---|---|---|
| 6,606.00 | -72.44 | -57.03 | -15.41 | Pass |

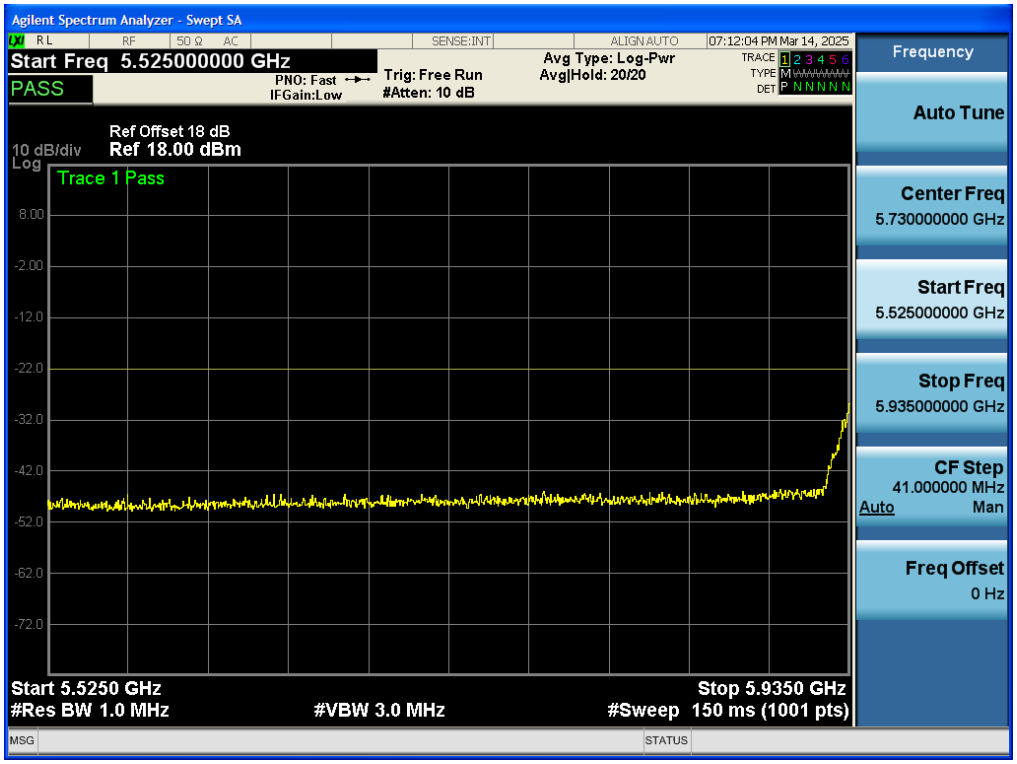
| Test Mode | TX Mode IEEE 802.11be(EHT320) |
|---|---|

TX Mode_6105MHz

Ant 1

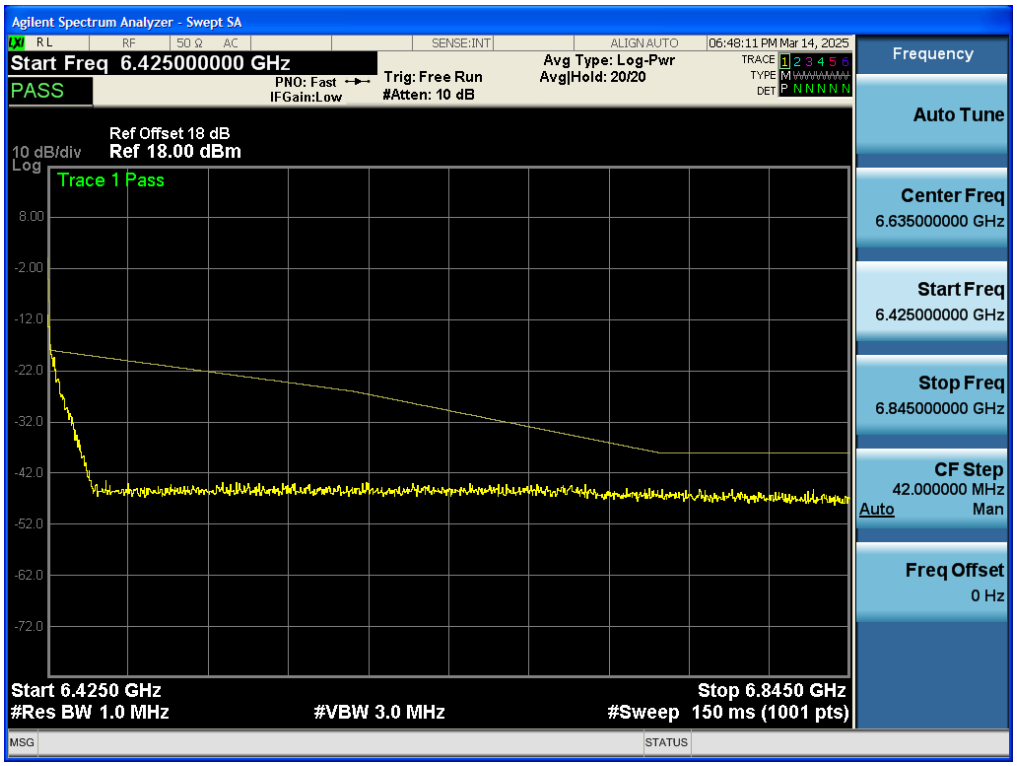



Ant 2

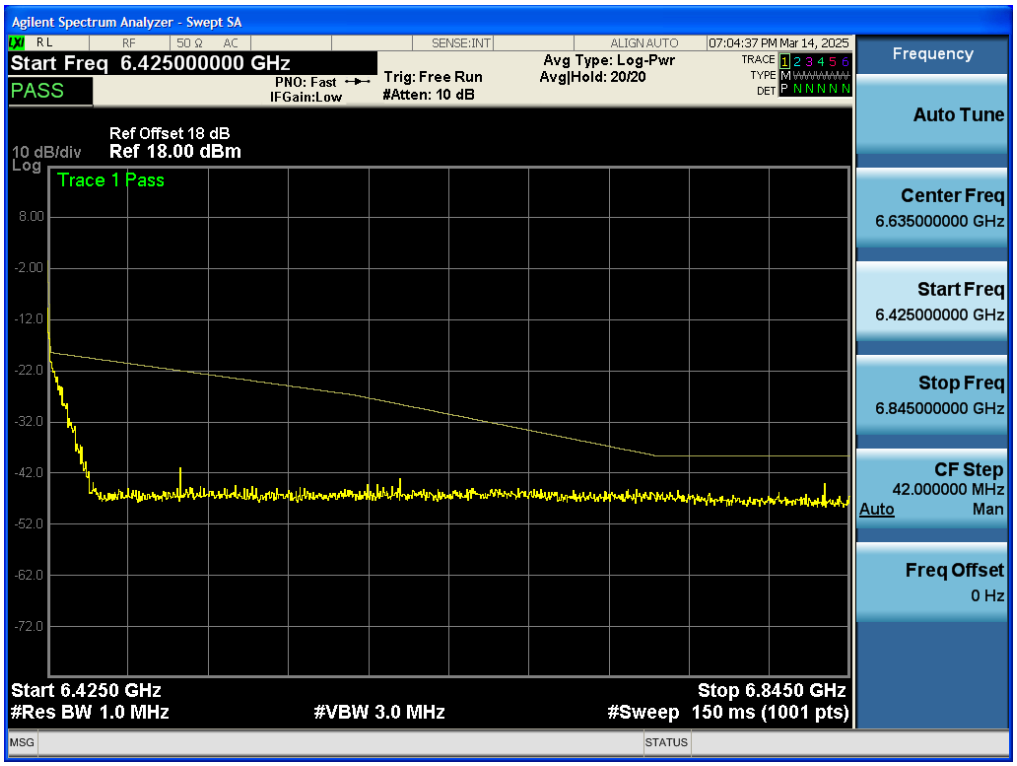


TX Mode_6265MHz

Ant 1

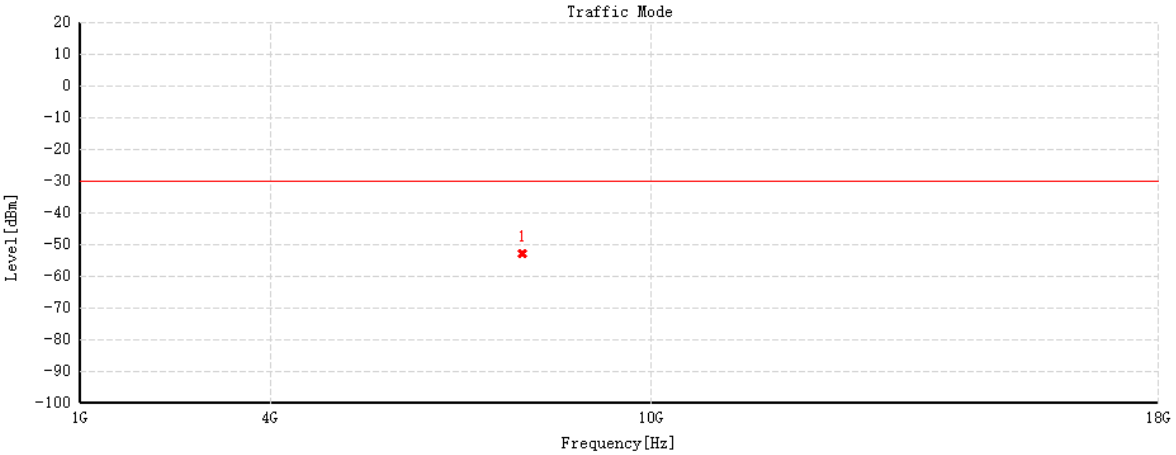



Ant 2



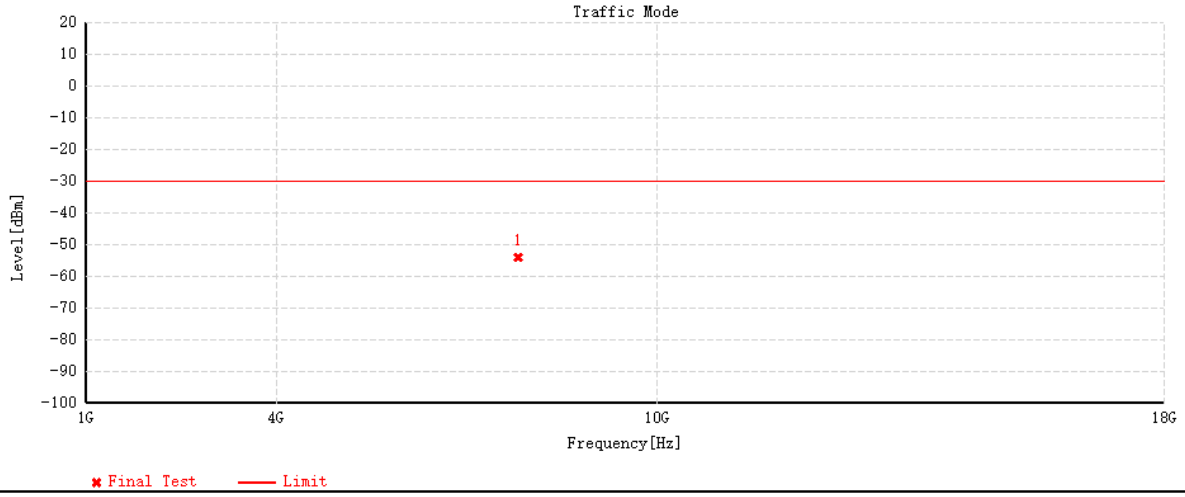
**Spurious Domain**

| Test Mode | TX Mode IEEE 802.11be(EHT20)_5955MHz | Polarization | Vertical |
|---|---|---|---|



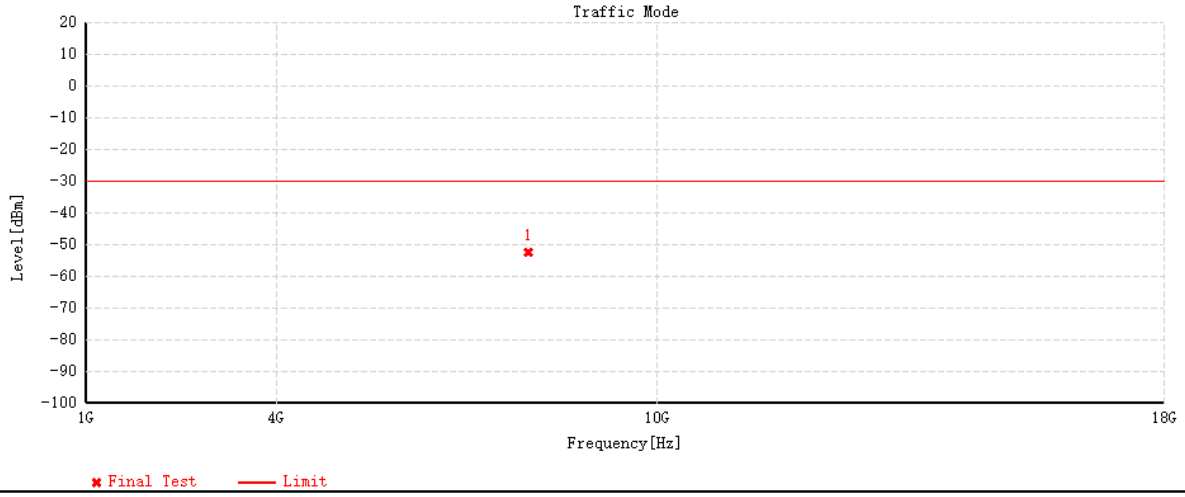

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -69.77 | 16.95 | -52.82 | -30 | 22.82 | RMS | Vertical |

| Test Mode | TX Mode IEEE 802.11be(EHT20)_5955MHz | Polarization | Horizontal |
|---|---|---|---|



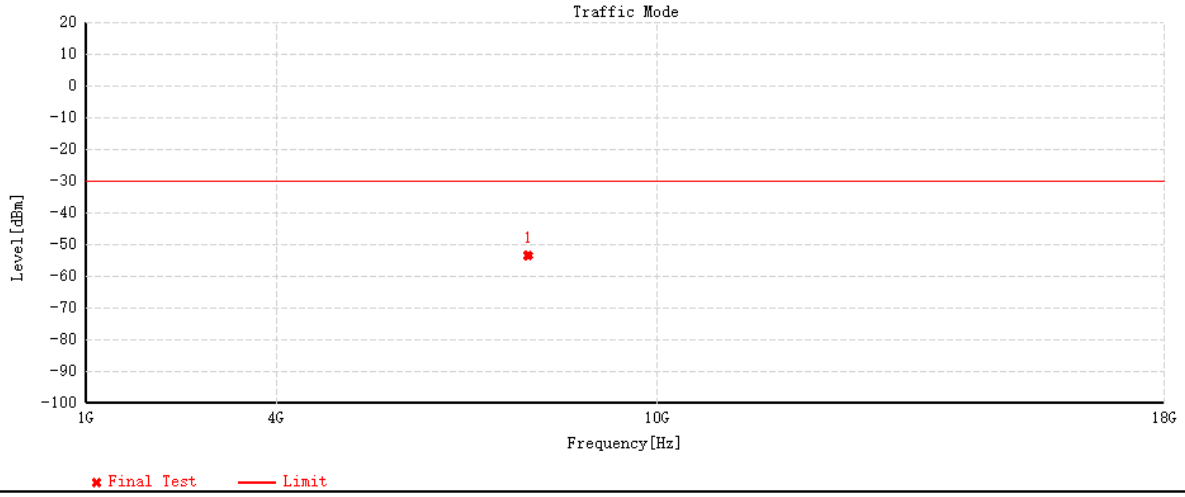

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7815.3000 | -70.27 | 16.28 | -53.99 | -30 | 23.99 | RMS | Horizontal |

| Test Mode | TX Mode IEEE 802.11be(EHT40)_5965MHz | Polarization | Vertical |
|---|---|---|---|



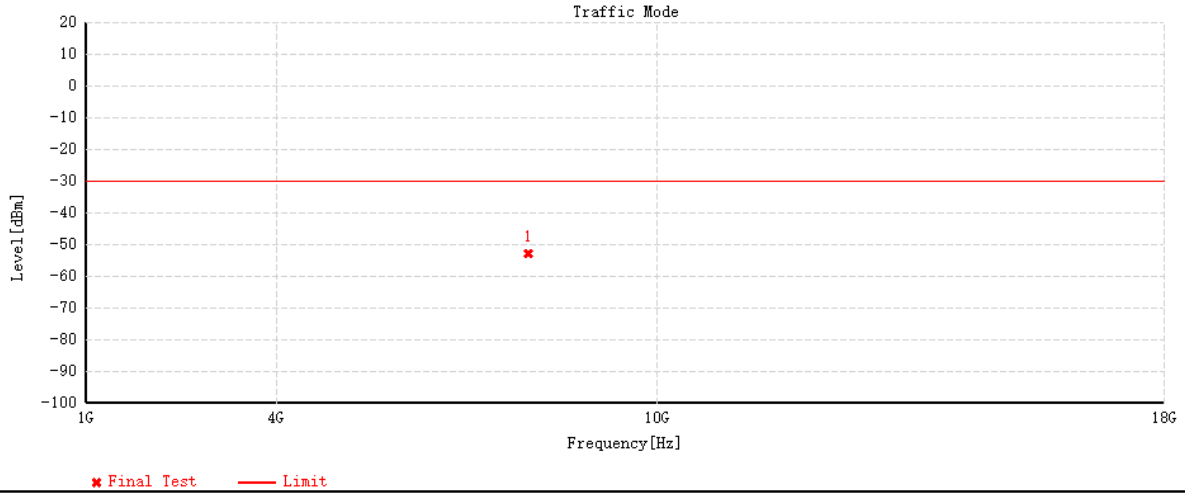

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -69.36 | 16.95 | -52.41 | -30 | 22.41 | RMS | Vertical |

| Test Mode | TX Mode IEEE 802.11be(EHT40)_5965MHz | Polarization | Horizontal |
|---|---|---|---|



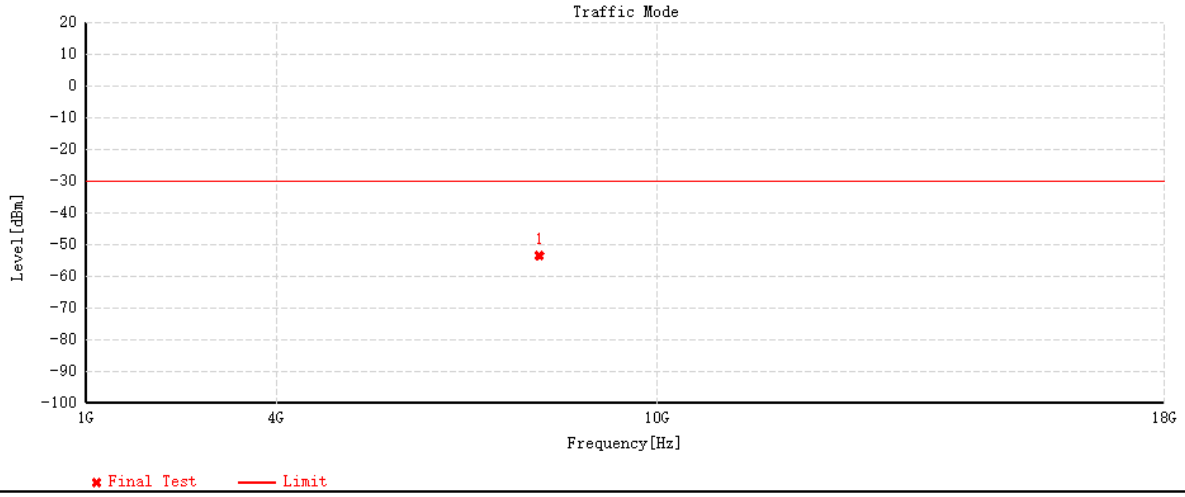

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -70.25 | 16.86 | -53.39 | -30 | 23.39 | RMS | Horizontal |

| Test Mode | TX Mode IEEE 802.11be(EHT80)_5985MHz | Polarization | Vertical |
|---|---|---|---|



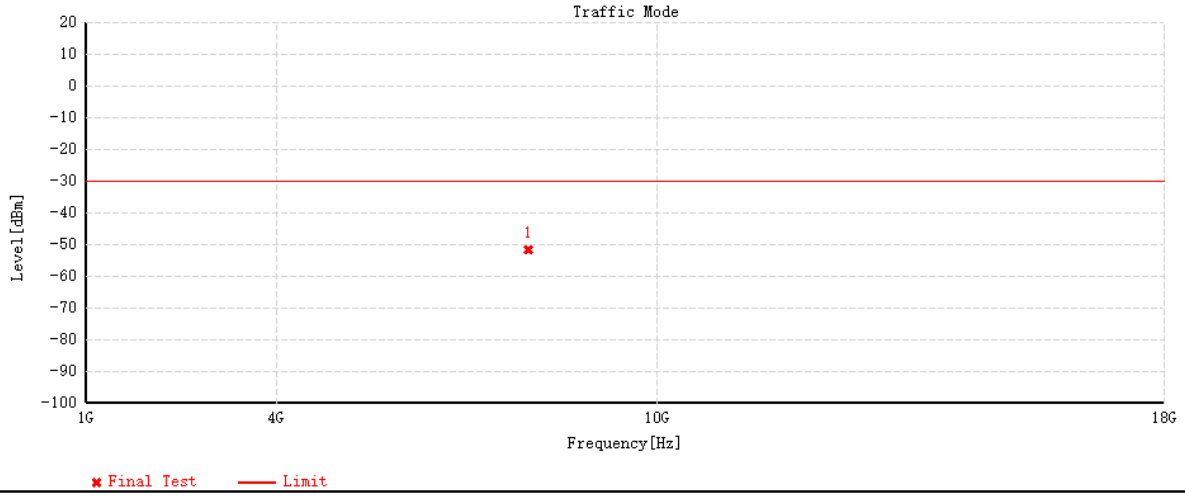

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -69.7 | 16.95 | -52.75 | -30 | 22.75 | RMS | Vertical |

| Test Mode | TX Mode IEEE 802.11be(EHT80)_5985MHz | Polarization | Horizontal |
|---|---|---|---|



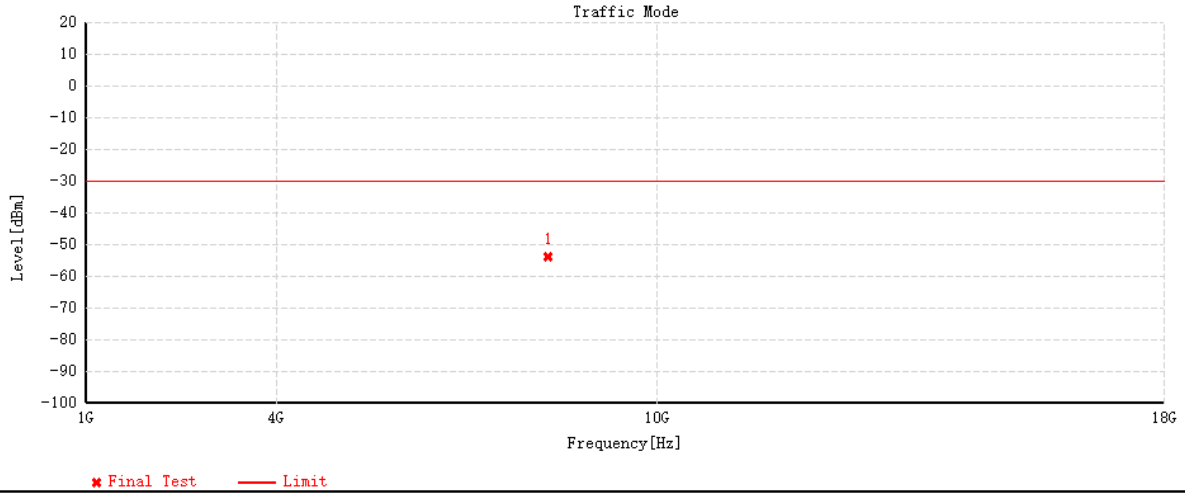

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 8145.1000 | -70.55 | 17.11 | -53.44 | -30 | 23.44 | RMS | Horizontal |

| Test Mode | TX Mode IEEE 802.11be(EHT160)_6025MHz | Polarization | Vertical |
|---|---|---|---|



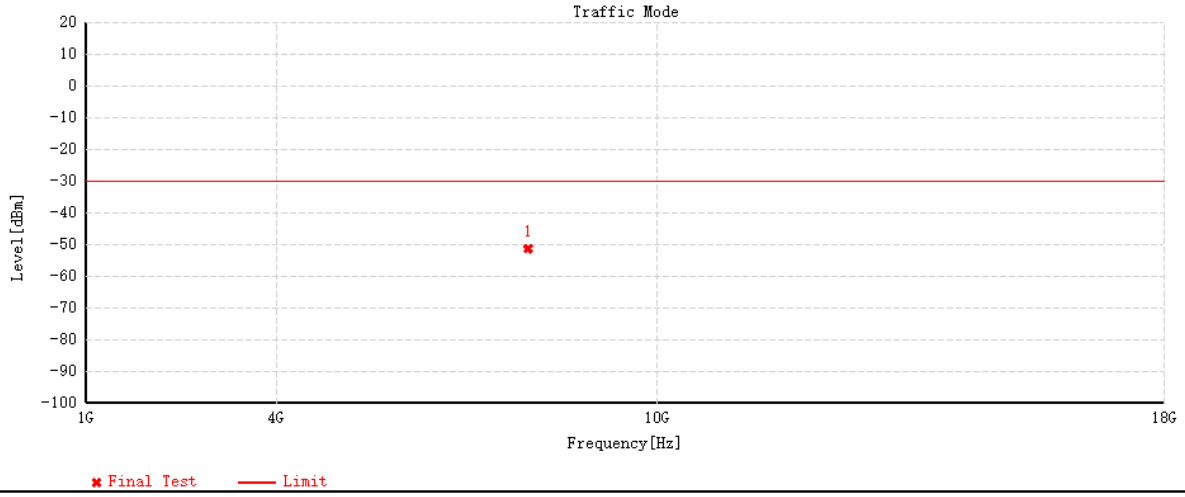

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -68.53 | 16.95 | -51.58 | -30 | 21.58 | RMS | Vertical |

| Test Mode | TX Mode IEEE 802.11be(EHT160)_6025MHz | Polarization | Horizontal |
|---|---|---|---|



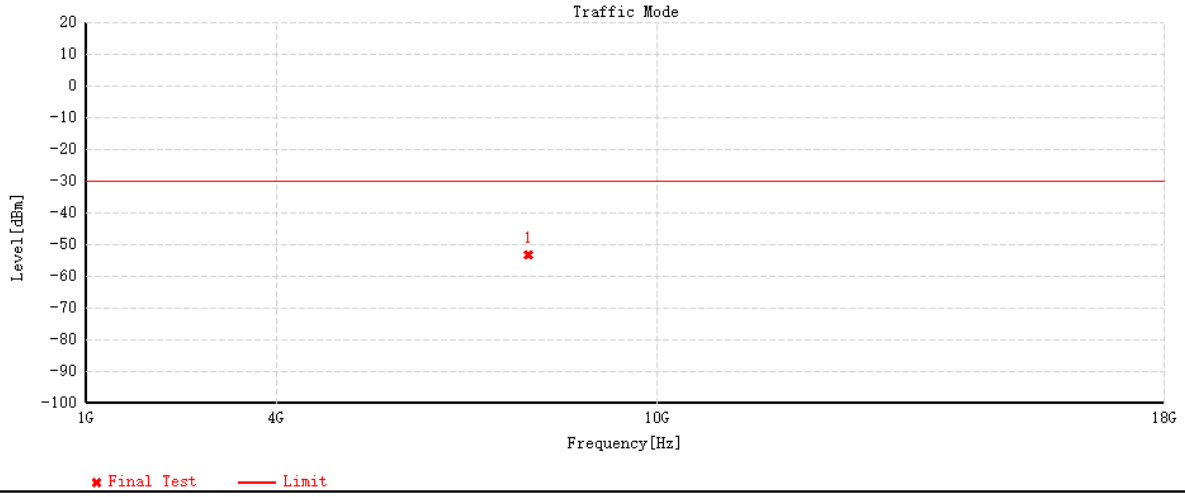

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 8281.9500 | -70.51 | 16.81 | -53.7 | -30 | 23.7 | RMS | Horizontal |

| Test Mode | TX Mode IEEE 802.11be(EHT320)_6105MHz | Polarization | Vertical |
|---|---|---|---|



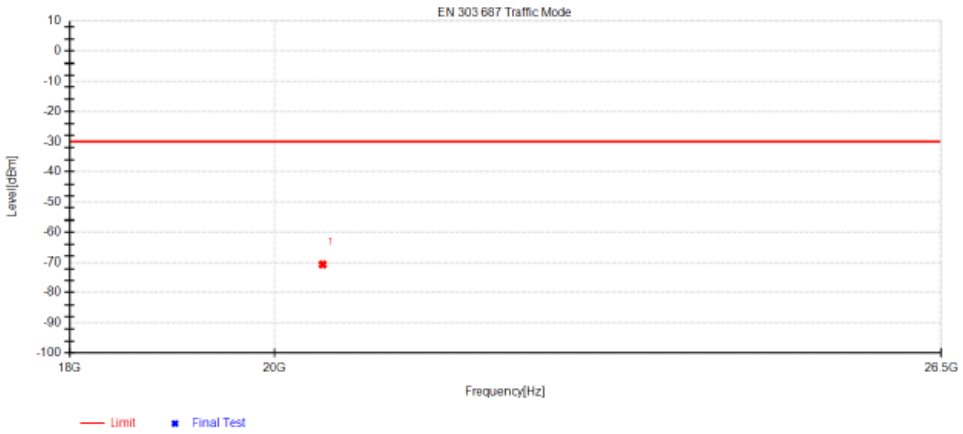

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -68.29 | 16.95 | -51.34 | -30 | 21.34 | RMS | Vertical |

| Test Mode | TX Mode IEEE 802.11be(EHT320)_6105MHz | Polarization | Horizontal |
|---|---|---|---|



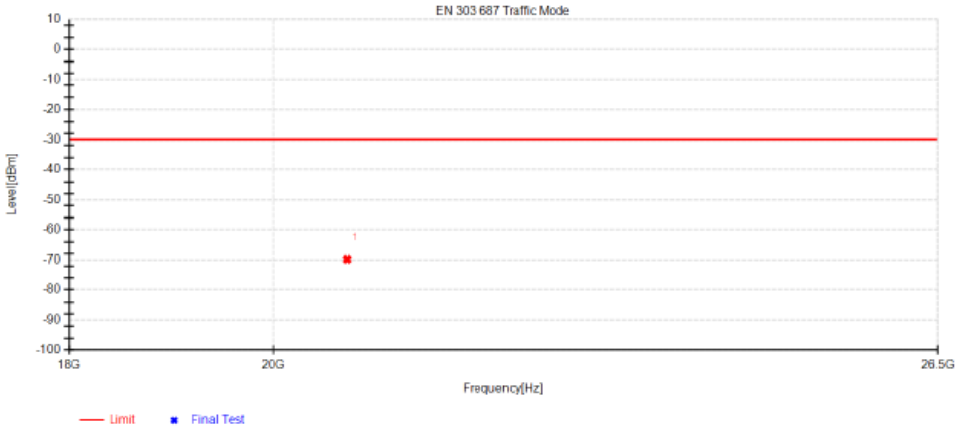

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 7969.1500 | -70.05 | 16.86 | -53.19 | -30 | 23.19 | RMS | Horizontal |

| Test Mode | TX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Vertical |
|---|---|---|---|




| Suspected Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBm] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Detector | Polarity |
| 1 | 20472.22 | -67.11 | -3.46 | -70.57 | -30.00 | 40.57 | RMS | Vertical |

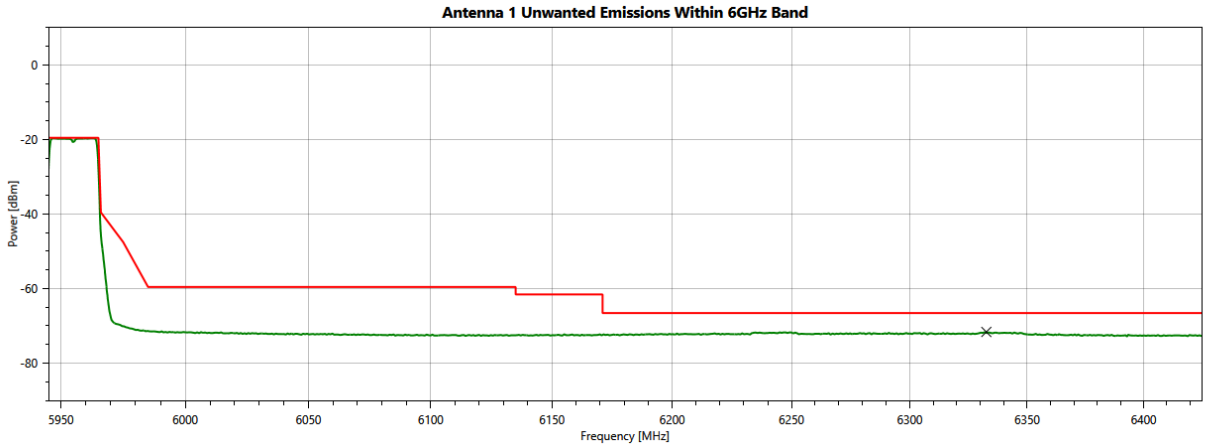
| Test Mode | TX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Horizontal |
|---|---|---|---|

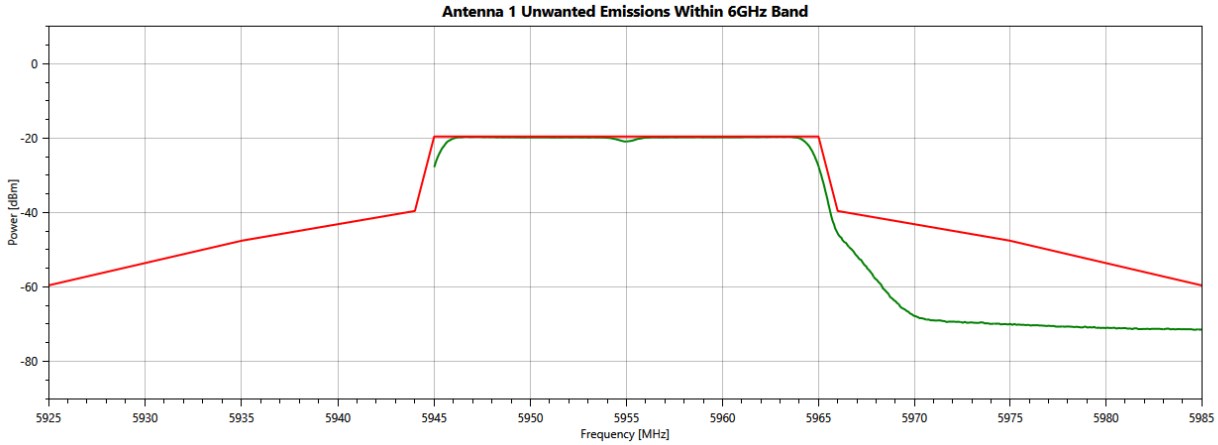



| Suspected Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBm] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Detector | Polarity |
| 1 | 20720.00 | -66.07 | -3.74 | -69.81 | -30.00 | 39.81 | RMS | Horizontal |

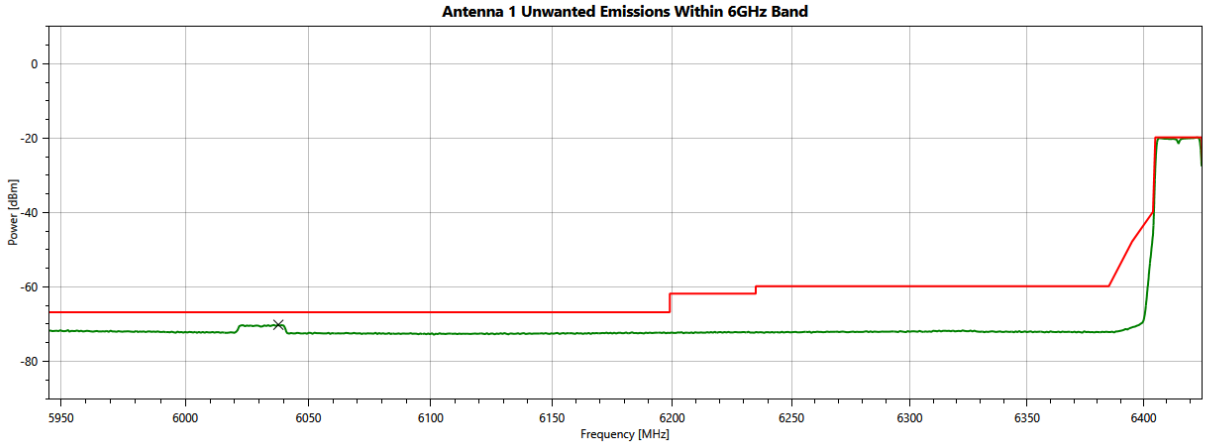
# APPENDIX F - TRANSMITTER UNWANTED EMISSIONS WITHIN THE 6 GHZ WAS/RLAN BAND

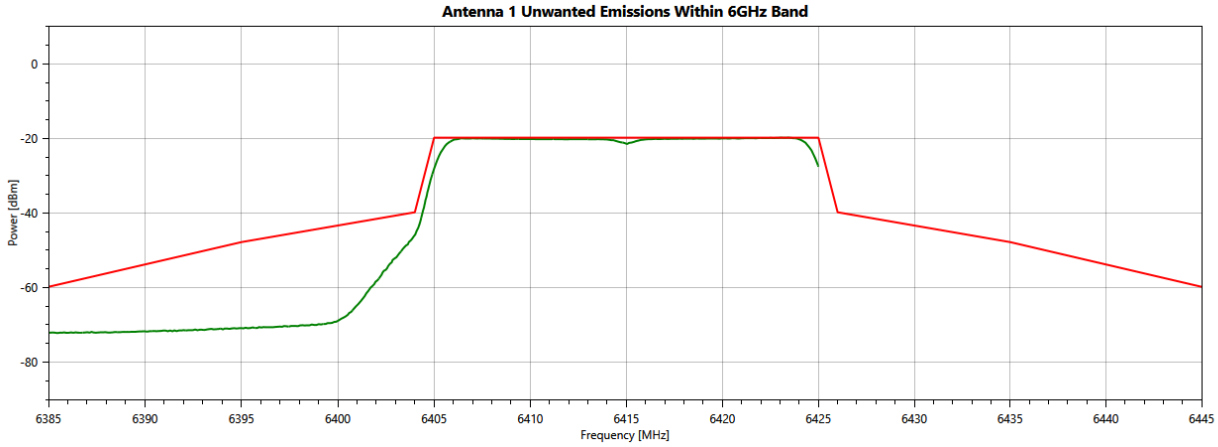
| Test Mode : | TX Mode IEEE 802.11be(EHT20) |
|---|---|



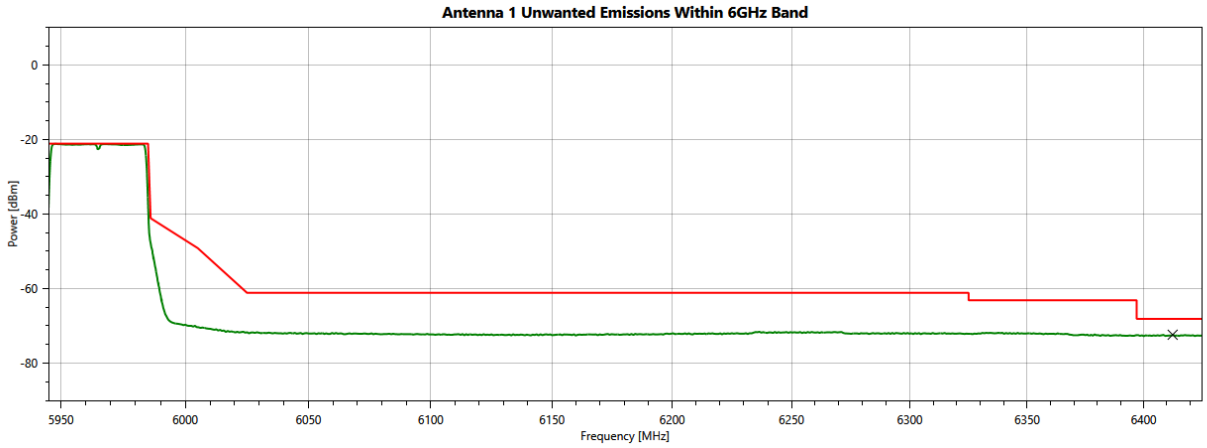

| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 6,332.552 | -71.63 | -66.58 | -5.05 | Pass |

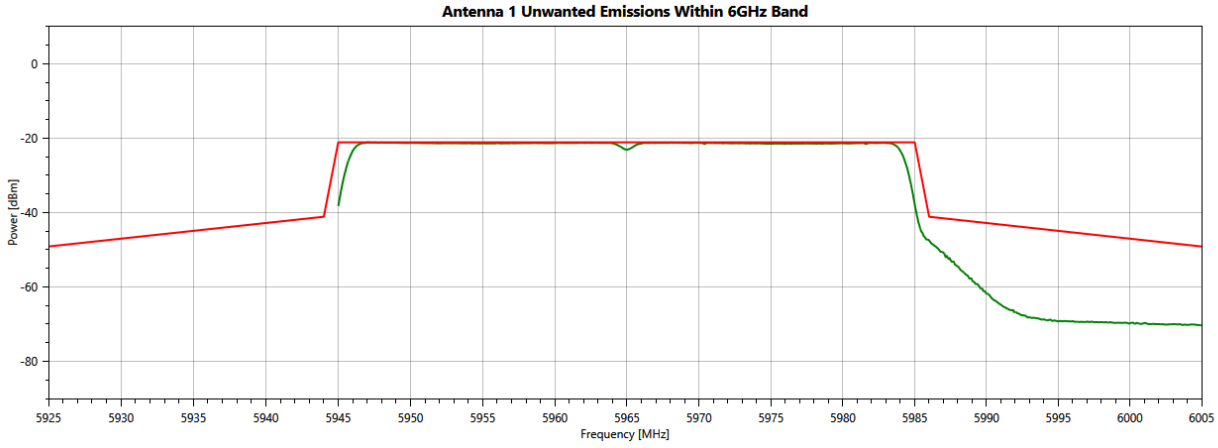


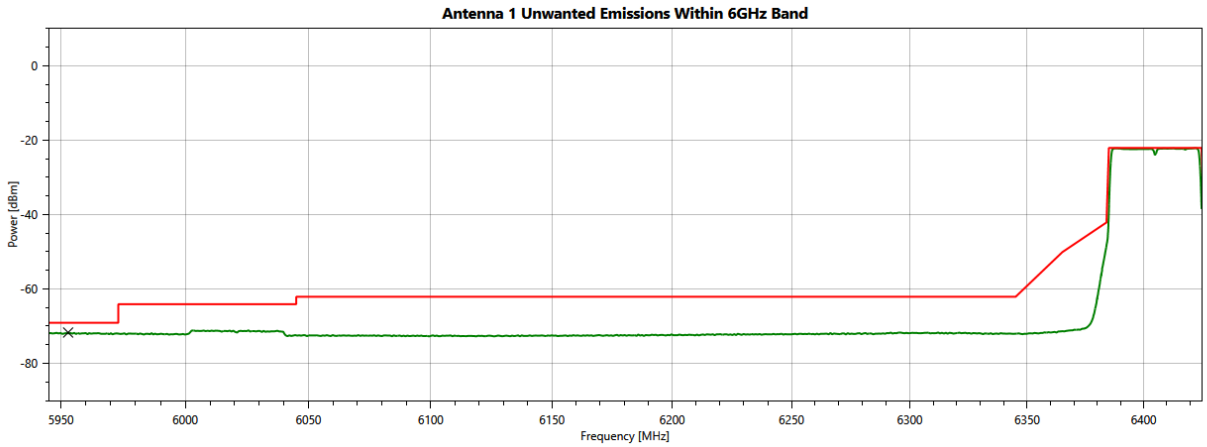

| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 6,037.760 | -70.17 | -66.80 | -3.37 | Pass |

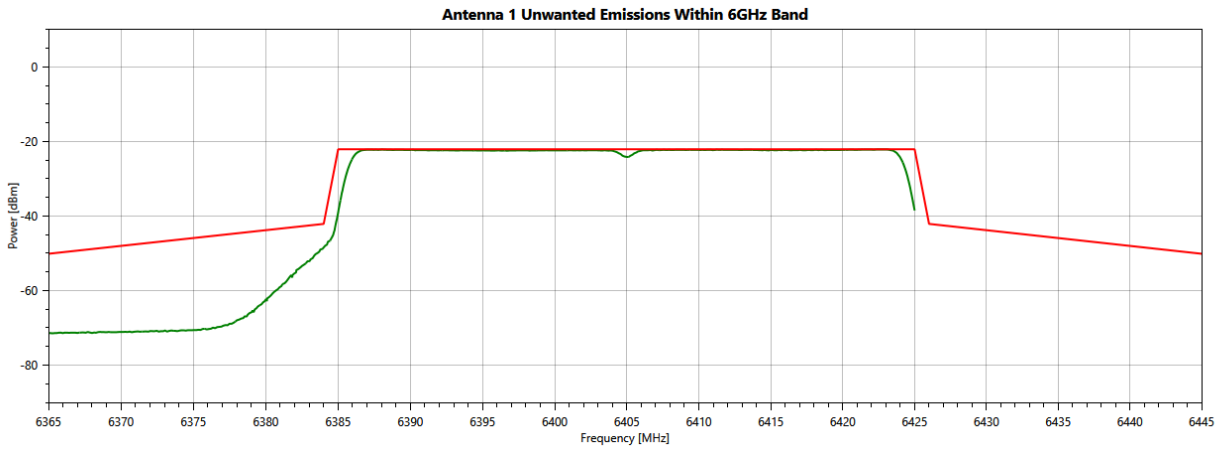
| Test Mode : | TX Mode IEEE 802.11be(EHT40) |
|---|---|



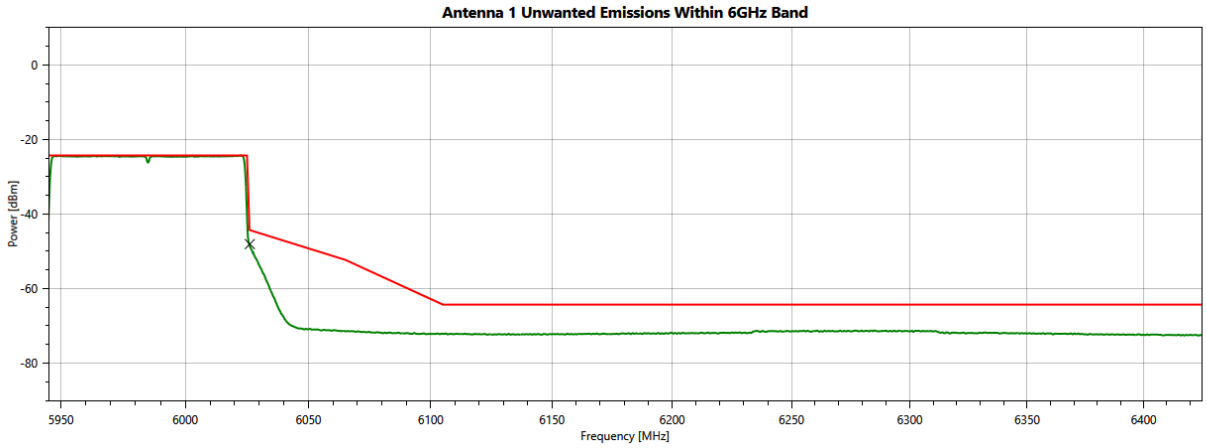

| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 6,412.496 | -72.38 | -68.13 | -4.25 | Pass |

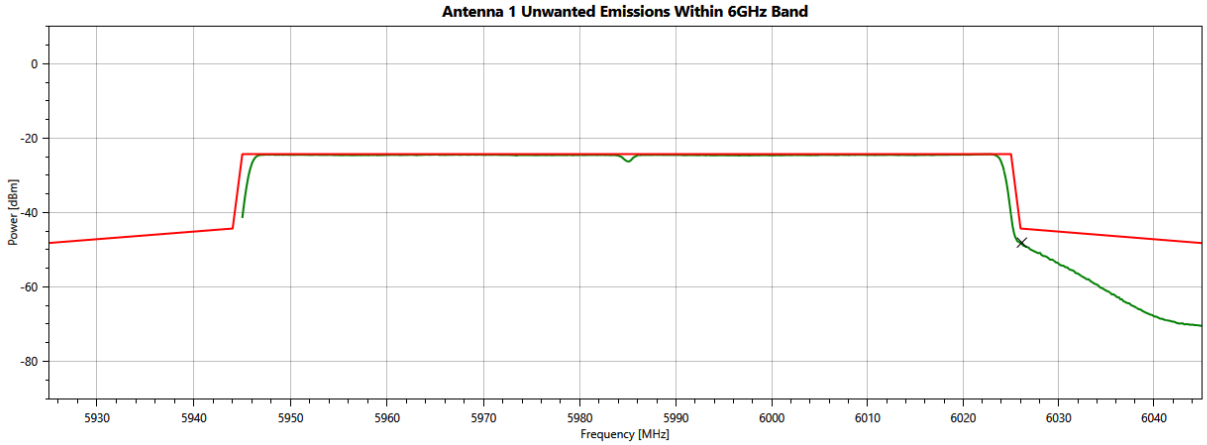


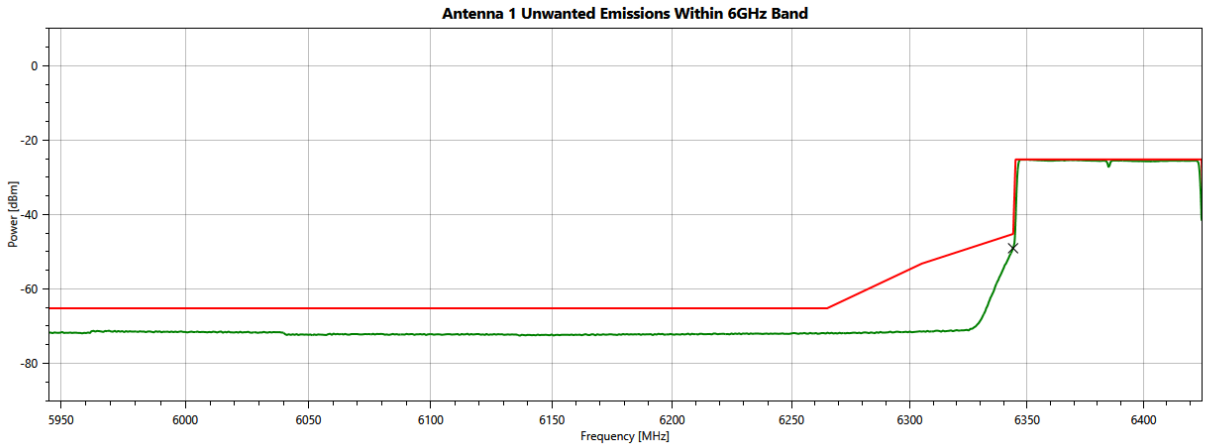

| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 5,952.872 | -71.71 | -69.12 | -2.59 | Pass |

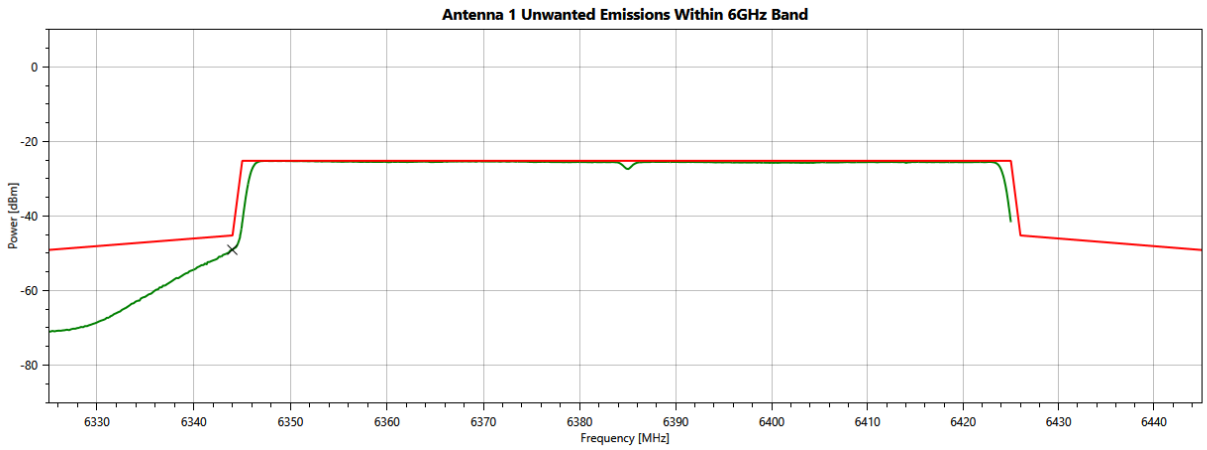
| Test Mode : | TX Mode IEEE 802.11be(EHT80) |
|---|---|



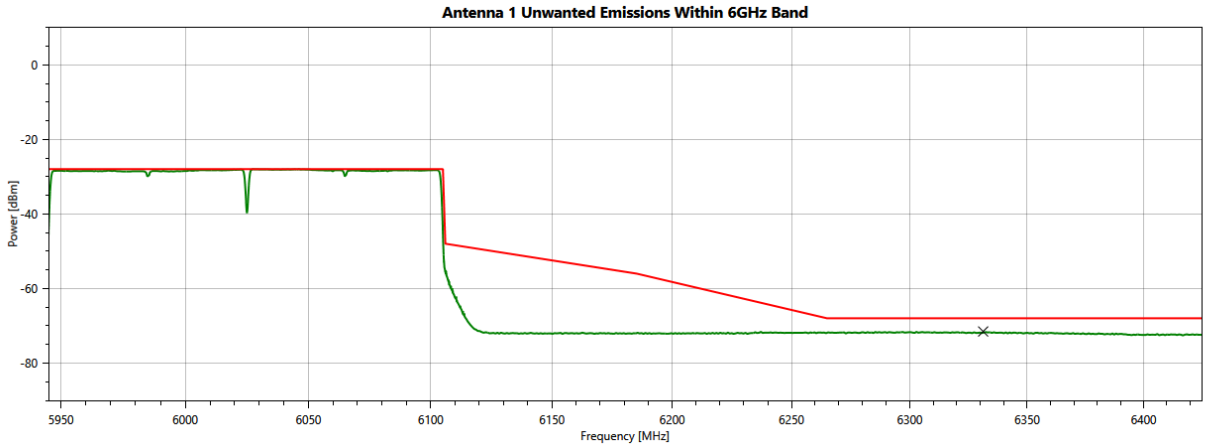

| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 6,026.144 | -48.08 | -44.33 | -3.75 | Pass |

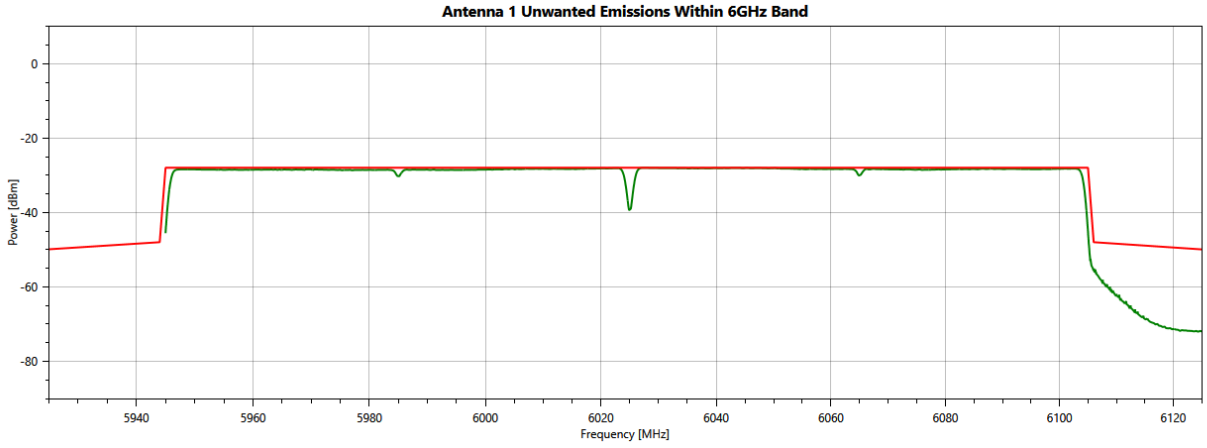


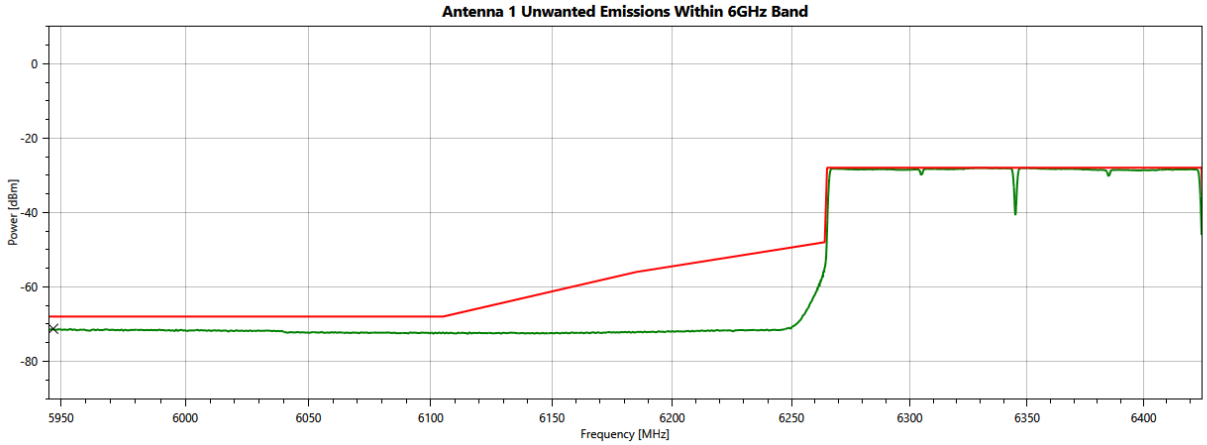

| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 6,343.976 | -49.06 | -45.21 | -3.85 | Pass |

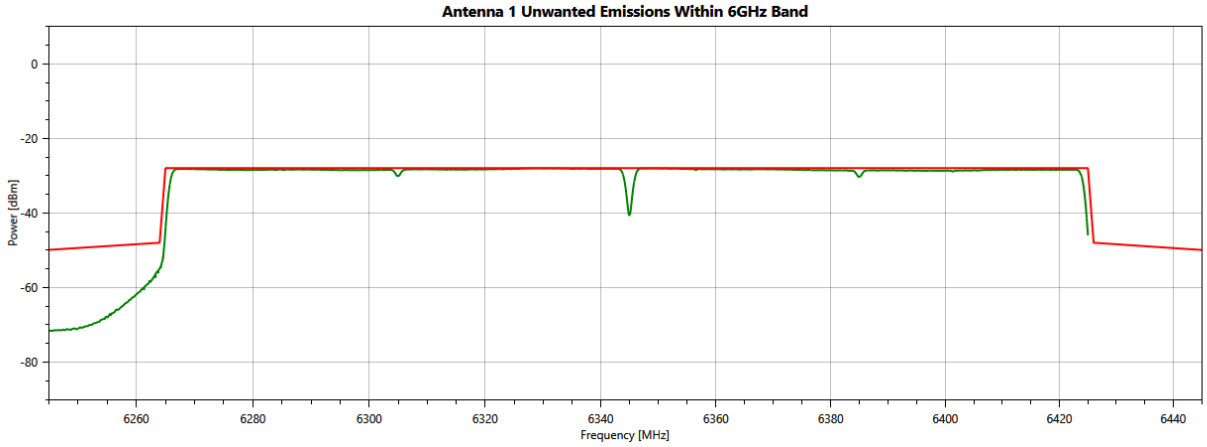
| Test Mode : | TX Mode IEEE 802.11be(EHT160) |
|---|---|




| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 6,331.184 | -71.50 | -67.97 | -3.53 | Pass |




| Freq (MHz) | Emission (dBm) | Limit (dBm) | OverLimit (dB) | Status |
|---|---|---|---|---|
| 5,946.896 | -71.24 | -67.98 | -3.26 | Pass |

| Test Mode : | TX Mode IEEE 802.11be(EHT320) |
|---|---|

Ant1

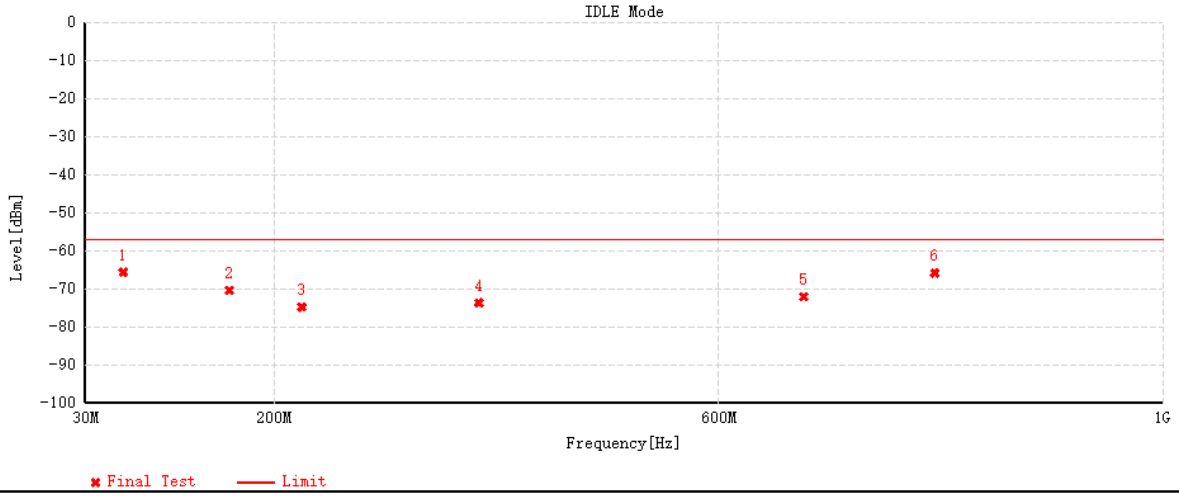



Ant1



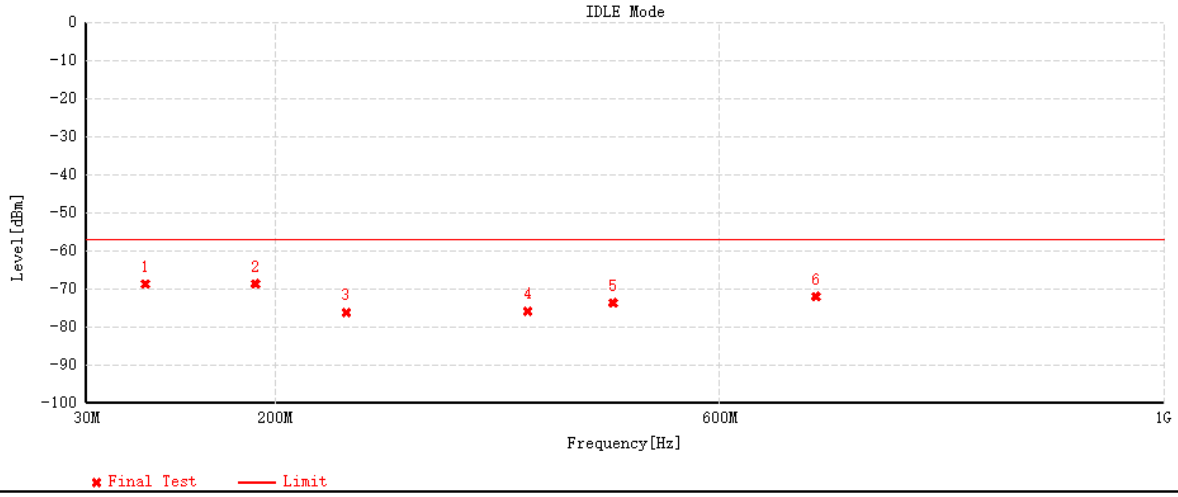
# APPENDIX G - RECEIVER SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

| Test Mode | RX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Vertical |
|---|---|---|---|




| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 64.0470 | -63.43 | -2.14 | -65.57 | -57 | 8.57 | RMS | Vertical |
| 2 | 159.1070 | -70.78 | 0.46 | -70.32 | -57 | 13.32 | RMS | Vertical |
| 3 | 224.6790 | -71.71 | -3.05 | -74.76 | -57 | 17.76 | RMS | Vertical |
| 4 | 384.0500 | -74.54 | 0.93 | -73.61 | -57 | 16.61 | RMS | Vertical |
| 5 | 676.5050 | -80.85 | 8.94 | -71.91 | -57 | 14.91 | RMS | Vertical |
| 6 | 794.3600 | -76.64 | 10.87 | -65.77 | -57 | 8.77 | RMS | Vertical |

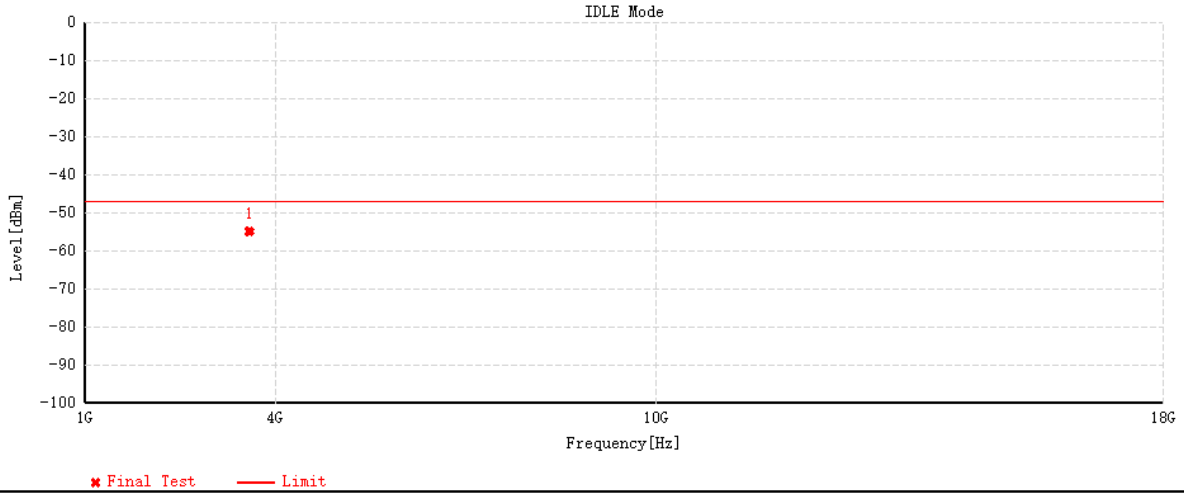
| Test Mode | RX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Horizontal |
|---|---|---|---|




| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 83.1560 | -61.25 | -7.41 | -68.66 | -57 | 11.66 | RMS | Horizontal |
| 2 | 181.9020 | -68.47 | -0.16 | -68.63 | -57 | 11.63 | RMS | Horizontal |
| 3 | 263.8670 | -74.72 | -1.39 | -76.11 | -57 | 19.11 | RMS | Horizontal |
| 4 | 427.4090 | -78.68 | 2.86 | -75.82 | -57 | 18.82 | RMS | Horizontal |
| 5 | 503.8450 | -78.14 | 4.52 | -73.62 | -57 | 16.62 | RMS | Horizontal |
| 6 | 686.5930 | -80.69 | 8.79 | -71.9 | -57 | 14.9 | RMS | Horizontal |

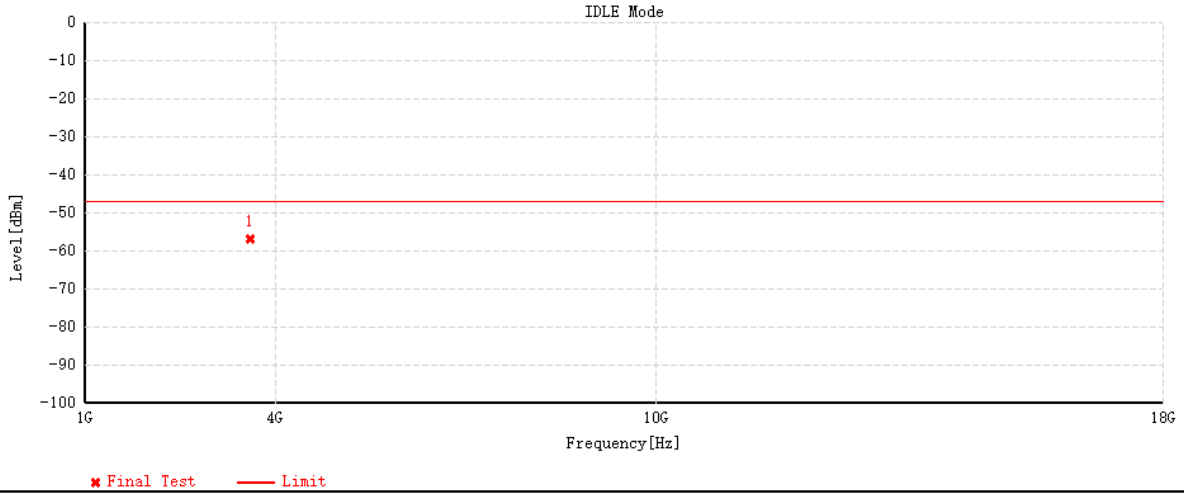
# APPENDIX H - RECEIVER SPURIOUS EMISSIONS (ABOVE 1000MHZ)

| Test Mode | RX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Vertical |
|---|---|---|---|



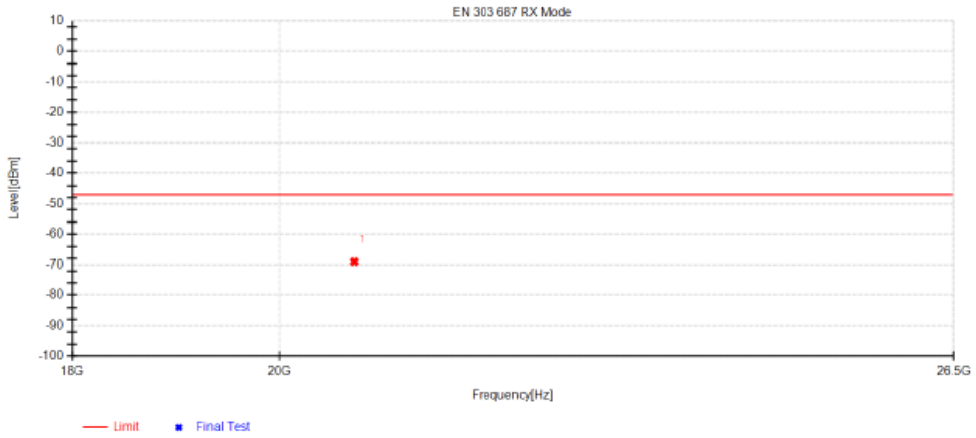

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 3589.9500 | -50.75 | -4.07 | -54.82 | -47 | 7.82 | RMS | Vertical |

| Test Mode | RX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Horizontal |
|---|---|---|---|



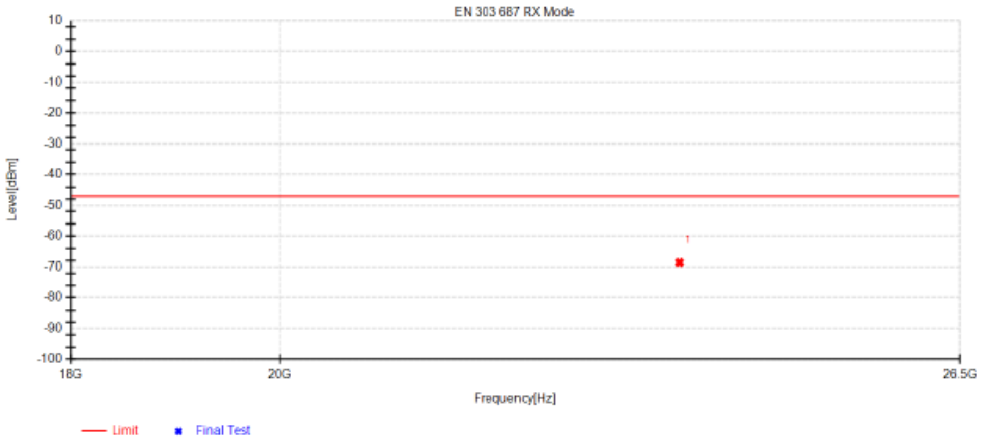

| NO. | Freq.[MHz] | Reading[dBm] | Factor[dB] | Level[dBm] | Limit[dBm] | Margin[dB] | Detector | Polarity |
|---|---|---|---|---|---|---|---|---|
| 1 | 3596.7500 | -53.82 | -3 | -56.82 | -47 | 9.82 | RMS | Horizontal |

| Test Mode | RX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Vertical |
|---|---|---|---|




| Suspected Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBm] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Detector | Polarity |
| 1 | 20720.00 | -65.58 | -3.40 | -68.98 | -47.00 | 21.98 | RMS | Vertical |

| Test Mode | RX Mode IEEE 802.11be(EHT320)_6265MHz | Polarization | Horizontal |
|---|---|---|---|




| Suspected Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Freq. [MHz] | Reading [dBm] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Detector | Polarity |
| 1 | 23820.37 | -66.51 | -2.04 | -68.55 | -47.00 | 21.55 | RMS | Horizontal |

# APPENDIX I - CHANNEL ACCESS MECHANISM

| Test Mode: | TX Mode_ IEEE 802.11be(EHT40)_5965MHz |
|---|---|

| Channel Occupancy Time and Priority Class Measured Results | | |
|---|---|---|
| Freq.(MHz) | Channel Occupancy Time (ms) | Priority Class |
| 5965 | 5.730 | 2 |

| Channel access mechanism Results | | | | |
|---|---|---|---|---|
| Detection Threshold Level | | | -83.92dBm/MHz | |
| Interference Signal | Freq.(MHz) | | Short Control Signalling Transmissions (ms) | Number of Short Control Signalling Transmissions |
| AWGN | BE40 | 5955 | 0 | 0 |
| | | 5975 | 0 | 0 |
| Limit | | | 2.5 | ≤ 50 |
| Result | | | Pass | |

Note:

1. A channel is an occupied channel as long as transmissions in that channel are present at a power level greater than the ED Threshold (EDT). The power level is determined by integrating the received power over the channel, and then normalized to per MHz power. The received power shall be measured at the interface between the equipment and the antenna assembly. If no transmissions are present at a power level greater than the EDT, the channel is an unoccupied channel.
   The EDT is proportional to the equipment's maximum configured transmit power ($P_{max}$):

   For $P_{max} \leq 14$ dBm: EDT = -75 dBm/MHz

   For 14 dBm < $P_{max} \leq 24$ dBm: EDT = -85 dBm/MHz+(24 dBm - $P_{max}$)

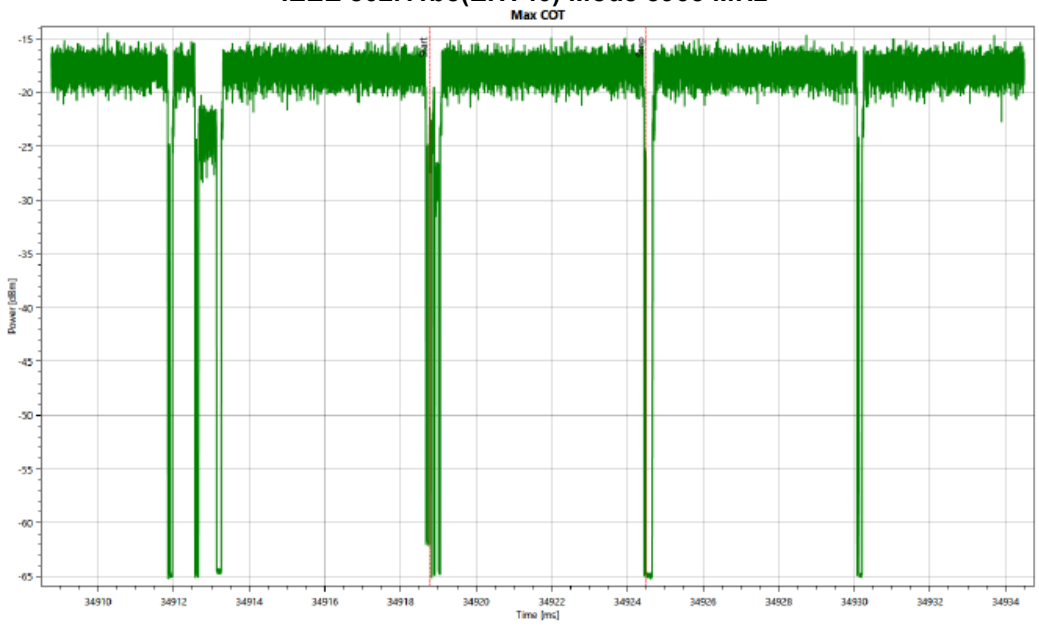
   For $P_{max} \geq 24$ dBm: EDT = -85 dBm/MHz

2. Short Control Signalling Transmissions = 50 (ms) * Duty cycle (%)

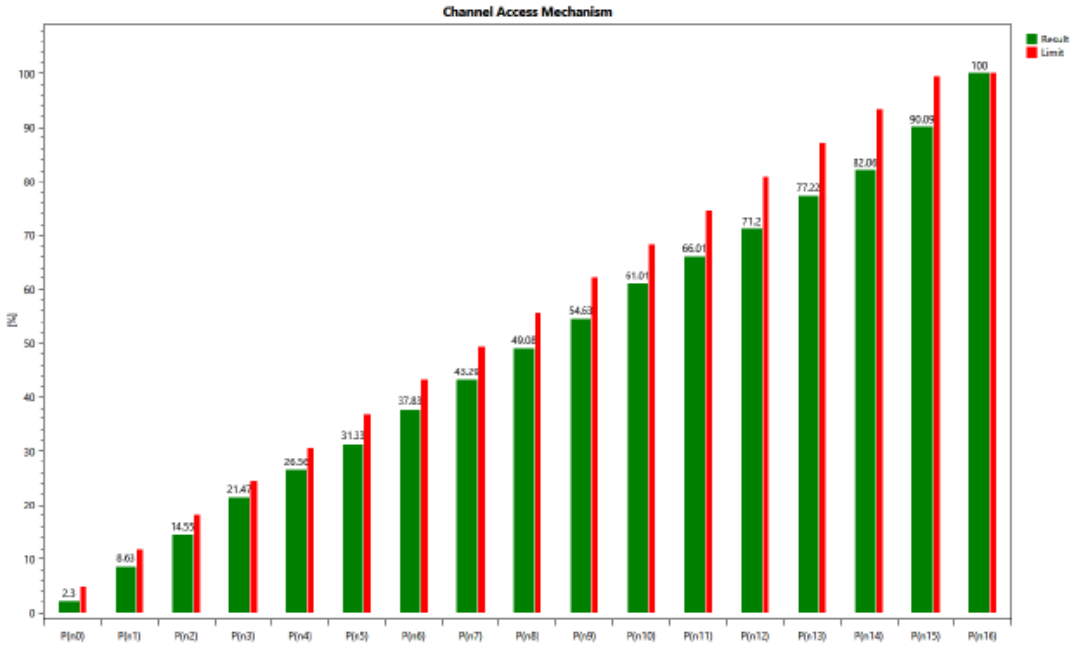
**Multi-Channel device test results**

Option 2:
The EUT is set to a channel bandwidth of 40MHz with the primary operating channel 5955MHz. One additional adjacent 20MHz operating channel that constructs the full 40 MHz channel bandwidth is located at 5975 MHz. Data traffic is started and then an interfering signal is injected into the EUT at 5975 MHz.

**IEEE 802.11be(EHT40) Mode 5965 MHz**

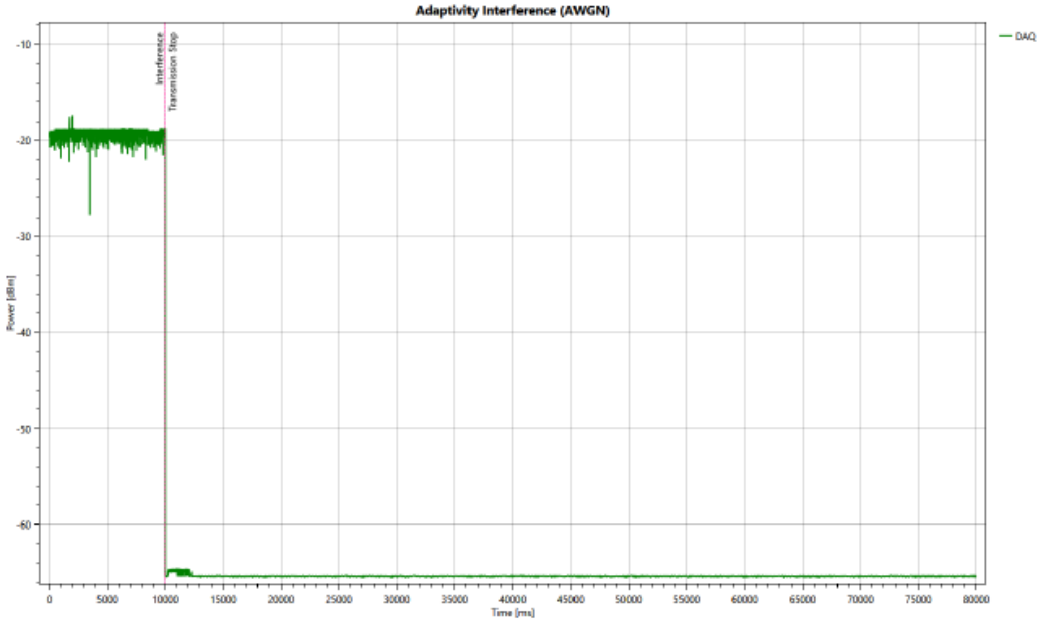


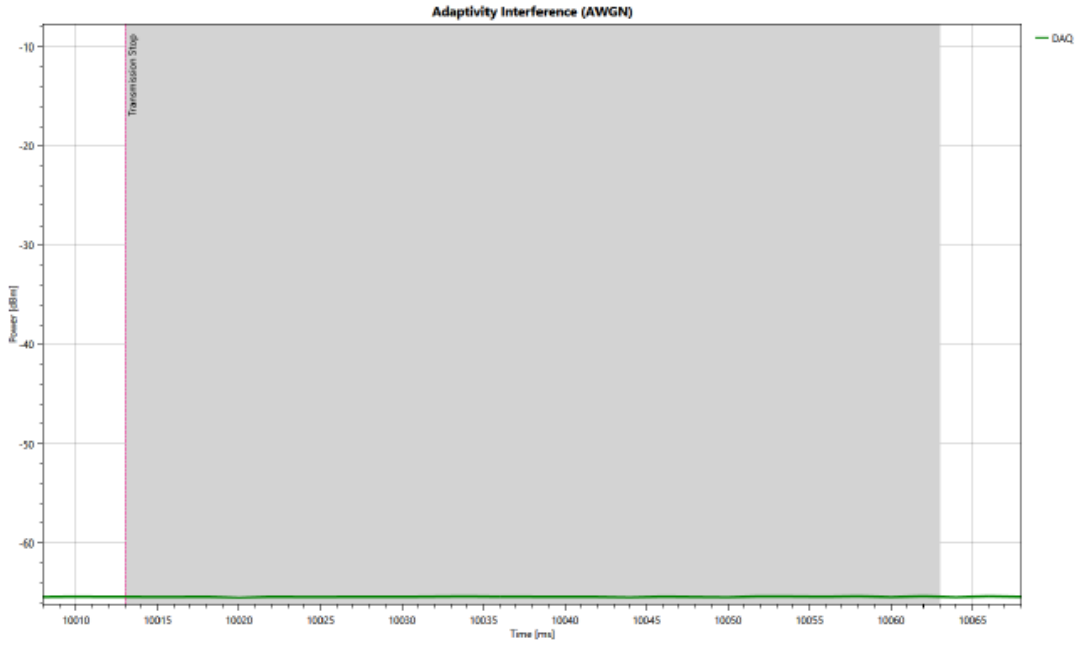

Max COT (ms): 5.730



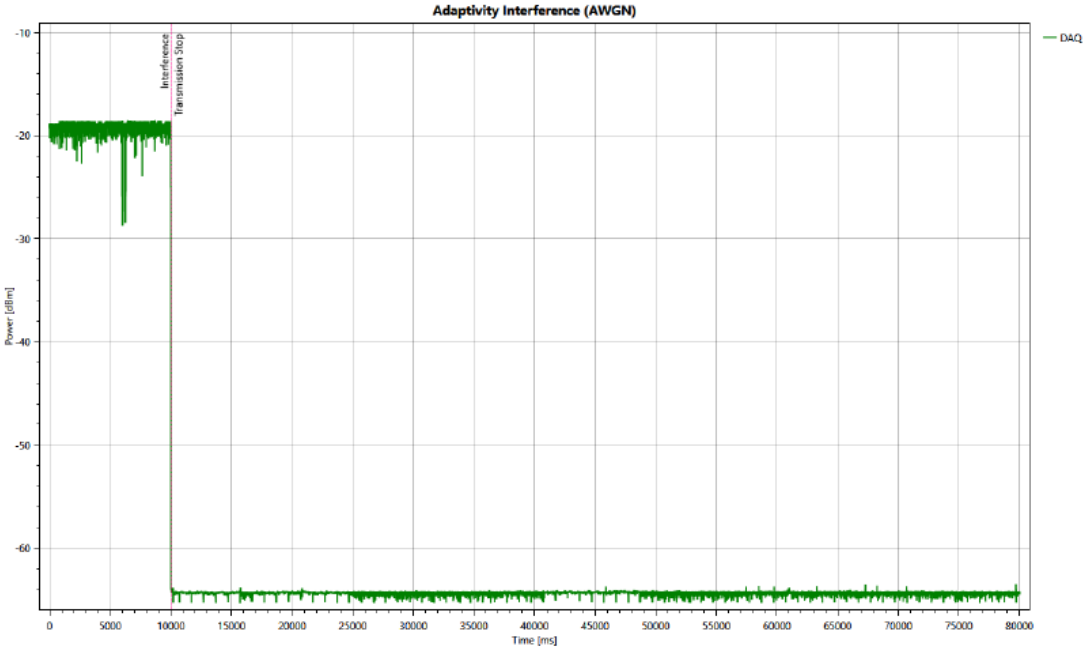

| n | Result(%) | Limit(%) | P(n) | Status | B(n) |
|---|---|---|---|---|---|
| 0 | 2.30 | 5.00 | 236 | Pass | 236 |
| 1 | 8.63 | 12.00 | 886 | Pass | 650 |
| 2 | 14.55 | 18.25 | 1494 | Pass | 608 |
| 3 | 21.47 | 24.50 | 2205 | Pass | 711 |
| 4 | 26.56 | 30.75 | 2728 | Pass | 523 |
| 5 | 31.33 | 37.00 | 3218 | Pass | 490 |
| 6 | 37.83 | 43.25 | 3885 | Pass | 667 |
| 7 | 43.29 | 49.50 | 4446 | Pass | 561 |
| 8 | 49.08 | 55.75 | 5041 | Pass | 595 |
| 9 | 54.63 | 62.00 | 5610 | Pass | 569 |
| 10 | 61.01 | 68.25 | 6266 | Pass | 656 |
| 11 | 66.01 | 74.50 | 6779 | Pass | 513 |
| 12 | 71.20 | 80.75 | 7312 | Pass | 533 |
| 13 | 77.22 | 87.00 | 7930 | Pass | 618 |
| 14 | 82.06 | 93.25 | 8428 | Pass | 498 |
| 15 | 90.09 | 99.50 | 9252 | Pass | 824 |
| 16 | 100.00 | 100.00 | 10270 | Pass | 1018 |

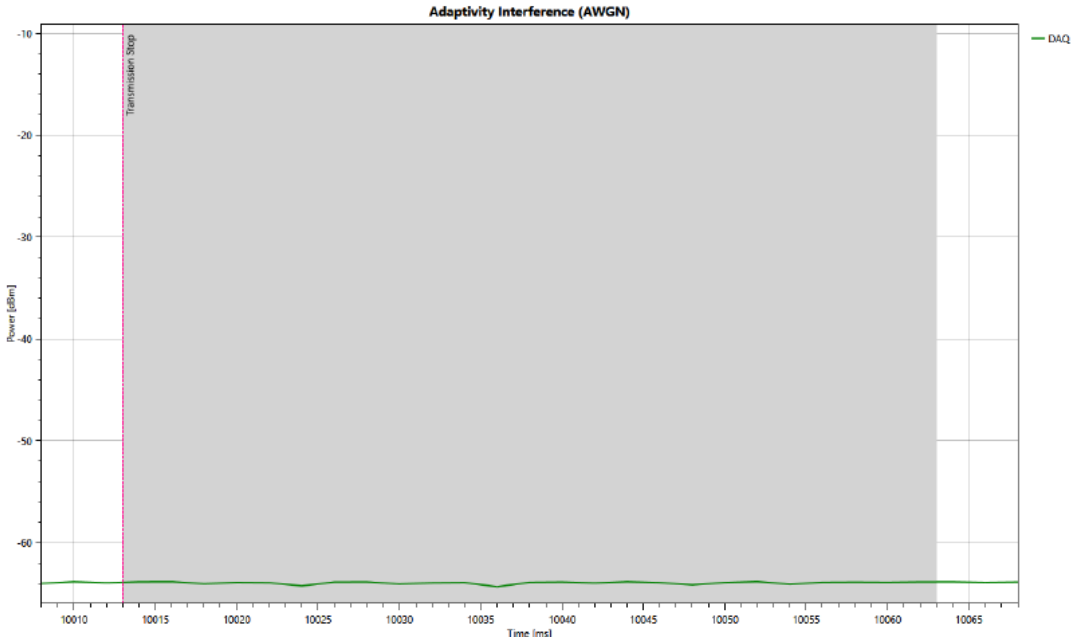
**IEEE 802.11be(EHT40) Mode 5965 MHz**
**Interference Signal(AWGN)**



**IEEE 802.11be(EHT40) Mode 5975 MHz**
**Interference Signal(AWGN)**



# APPENDIX J - RECEIVER BLOCKING

| Receiver Blocking Result | | | | | | |
|---|---|---|---|---|---|---|
| $P_{min}$ (dBm) | -95 | | | | | |
| Modulation Mode | Operation Freq. (MHz) | Wanted Signal Mean Power from Companion Device (dBm) $P_{min}$ + 6 dB | Blocking Signal Freq. (MHz) | Receiver Blocking Power (dBm) | Wireless Transmission Function | Blocking Signal Level at which the Performance Criteria is no longer met (dBm) **(See Note)** |
| IEEE 802.11be (EHT20) MCS0 | 5955 | -89 | 6475 | -53 | Normal | -5 |
| | | | 6575 | -47 | Normal | -6 |
| | | | 6675 | -47 | Normal | -8 |
| Limit | No loss of the wireless transmission function | | | | | N/A |
| Result | Pass | | | | | Record Only |

| Receiver Blocking Result | | | | | | |
|---|---|---|---|---|---|---|
| $P_{min}$ (dBm) | -98 | | | | | |
| Modulation Mode | Operation Freq. (MHz) | Wanted Signal Mean Power from Companion Device (dBm) $P_{min}$ + 6 dB | Blocking Signal Freq. (MHz) | Receiver Blocking Power (dBm) | Wireless Transmission Function | Blocking Signal Level at which the Performance Criteria is no longer met (dBm) **(See Note)** |
| IEEE 802.11be (EHT20) MCS0 | 6415 | -92 | 6475 | -53 | Normal | -10 |
| | | | 6575 | -47 | Normal | -15 |
| | | | 6675 | -47 | Normal | -17 |
| Limit | No loss of the wireless transmission function | | | | | N/A |
| Result | Pass | | | | | Record Only |

Note:
The performance criteria had been met, the level of the blocking signal at the UUT were further increased in steps of 1 dB until the level whereby the performance criteria were no longer met.

# APPENDIX K - RECEIVER SELECTIVITY

| Receiver Selectivity Result | | | | | | |
|---|---|---|---|---|---|---|
| $P_{min}$(dBm) | -98 | | | | | |
| Modulation Mode | Operation Freq. (MHz) | Wanted Signal Mean Power from Companion Device (dBm) $P_{min}$ + 10 dB | Interferer Signal Freq. (MHz) | Interferer Signal Power (dBm) | Wireless Transmission Function | Interferer Signal Level at which the Performance Criteria is no longer met(dBm) **(See Note)** |
| IEEE 802.11be (EHT20) MCS0 | 5995 | -88 | 5955 | -66 | Normal | -19 |
| | | | 5975 | -72 | Normal | -52 |
| | | | 6015 | -72 | Normal | -53 |
| | | | 6035 | -66 | Normal | -20 |
| Limit | No loss of the wireless transmission function | | | | | N/A |
| Result | Pass | | | | | Record Only |

| Receiver Selectivity Result | | | | | | |
|---|---|---|---|---|---|---|
| $P_{min}$(dBm) | -100 | | | | | |
| Modulation Mode | Operation Freq. (MHz) | Wanted Signal Mean Power from Companion Device (dBm) $P_{min}$ + 10 dB | Interferer Signal Freq. (MHz) | Interferer Signal Power (dBm) | Wireless Transmission Function | Interferer Signal Level at which the Performance Criteria is no longer met(dBm) **(See Note)** |
| IEEE 802.11be (EHT20) MCS0 | 6375 | -90 | 6335 | -68 | Normal | -25 |
| | | | 6355 | -74 | Normal | -58 |
| | | | 6395 | -74 | Normal | -57 |
| | | | 6415 | -68 | Normal | -27 |
| Limit | No loss of the wireless transmission function | | | | | N/A |
| Result | Pass | | | | | Record Only |

Note:
The performance criteria had been met, the level of the interference source at the UUT were further increased in steps of 1 dB until the level whereby the performance criteria were no longer met.

# APPENDIX L - VLP NB USAGE WITH A PSD ABOVE 1 DBM/MHZ

## Test Mode: N/A

Note: “N/A” denotes test is not applicable to this device.

**End of Test Report**