

TEST REPORT

Report Number: 16064952-E10V2

Applicant : APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A.

Model : A3447 (Parent)
A3719, A3720, A3721 (Variants)

Brand : APPLE

FCC ID : BCG-E9188A (Parent)
BCG-E9198A, BCG-E9203A, BCG-E9204A (Variants)

EUT Description : SMARTPHONE

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-07-10	Initial Review	---
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.
Model	A3447 (Parent) A3719, A3720, A3721 (Variants)
Brand	APPLE
FCC ID	BCG-E9188A (Parent) BCG-E9198A, BCG-E9203A, BCG-E9204A (Variants)
EUT Description	SMARTPHONE
Serial Number	C07HPF000800000ZYA, C07HTH000DS0001B59, C07HTU0005K0001B56, C07HTF0003Z0001B57, C07HTG0028A0001P0R (Conducted) K2DLVM4C2D, J0C02TN797, CXNYP92621, G3FCQ391K2, DYFQDX72WF (Radiated)
Sample Receipt Date	2026-02-17
Date Tested	2026-02-17 to 2026-07-31
Applicable Standards	FCC 47 CFR Part 15 Subpart E
Test Results	COMPLIES
UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.	
Approved & Released By:	Prepared By:
	
Thu Chan Sfatt Engineer UL Verification Services Inc.	Everardo Torres Laboratory Supervisor UL Verification Services Inc.

2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain and type (see section 6.3)
2. Cable loss (see section 6.3)

Requirement Description	Requirement Clause Number (FCC)	Result
Duty Cycle	-	Reporting purposes only
26dB BW/99% OBW	-	Reporting purposes only
6 dB BW	15.407 (e)	Complies
Output Power	15.407 (a) (1-4), (h) (1)	Complies
PSD	15.407 (a) (1-3, 5)	Complies
Radiated Emissions	15.209, 15.205, 15.407 (b)	Complies
AC Mains Conducted Emissions	15.207	Complies

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15E
- FCC KDB 662911 D01 Multiple Transmitter Output
- FCC KDB 789033 D02 General UNII Test Procedures New Rules
- FCC KDB 484596 D01 Referencing Test Data
- FCC KDB 414788 D01 Radiated Test Site

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☒	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☒	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Conducted Antenna Port Emission Measurement	1.940 dB
Power Spectral Density	2.466 dB
Time Domain Measurements Using SA	3.39 %
RF Power Measurement Direct Method Using Power Meter	0.450 dB (Ave), 1.30 dB (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB)
 – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN
 Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), Wireless Power Transfer (WPT) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

The EUT is considered a “Foldable Smartphone” and can be operated in two unique operating states – phone “fully closed” (State A) and phone “fully open” (State B). The test results of both operating states are reported.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

UNII-1 BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
UNII-1 band, 1TX			
5180 - 5240	802.11a	Covered by 802.11n HT20 1TX	
5180 - 5240	802.11n HT20	20.55	113.50
5190 - 5230	802.11n HT40	20.52	112.72
5180 - 5240	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5190 - 5230	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5210	802.11ac VHT80	17.89	61.52
5250	802.11ac VHT160	16.41	43.75
5180 - 5240	802.11be EHT20	20.55	113.50
5190 - 5230	802.11be EHT40	20.42	110.15
5210	802.11be EHT80	16.80	47.86
5250	802.11be EHT160	16.89	48.87
UNII-1 band, 2TX			
5180 - 5240	802.11n HT20 CDD	21.21	132.13
5180 - 5240	802.11n HT20 SDM/STBC	Covered by 802.11n HT20 2TX CDD	
5190 - 5230	802.11n HT40 CDD	22.86	193.20
5190 - 5230	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5180 - 5240	802.11ac VHT20 SDM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5190 - 5230	802.11ac VHT40 SDM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5210	802.11ac VHT80 CDD	19.02	79.80
5210	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5250	802.11ac VHT160 CDD	18.41	69.34
5250	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5180 - 5240	802.11be EHT20 CDD	21.47	140.28
5180 - 5240	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5190 - 5230	802.11be EHT40 CDD	22.85	192.75
5190 - 5230	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5210	802.11be EHT80 CDD	18.89	77.45
5210	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5250	802.11be EHT160 CDD	17.81	60.39
5250	802.11be EHT160 SDM	Covered by 802.11be EHT80 2TX CDD	

UNII-2A BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
UNII-2A band, 1TX			
5260 - 5320	802.11a	Covered by 802.11n HT20 1TX	
5260 - 5320	802.11n HT20	20.51	112.46
5270 - 5310	802.11n HT40	20.51	112.46
5260 - 5320	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5270 - 5310	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5290	802.11ac VHT80	17.41	55.08
5250	802.11ac VHT160	16.41	43.75
5260 - 5320	802.11be EHT20	20.55	113.50
5270 - 5310	802.11be EHT40	20.40	109.65
5290	802.11be EHT80	16.90	48.98
5250	802.11be EHT160	16.89	48.87
UNII-2A band, 2TX			
5260 - 5320	802.11n HT20 CDD	21.35	136.46
5260 - 5320	802.11n HT20 SDM/STBC	Covered by 802.11n HT20 2TX CDD	
5270 - 5310	802.11n HT40 CDD	22.88	194.09
5270 - 5310	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5260 - 5320	802.11ac VHT20 SDM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5270 - 5310	802.11ac VHT40 SDM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5290	802.11ac VHT80 CDD	18.90	77.62
5290	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5250	802.11ac VHT160 CDD	18.41	69.34
5250	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5260 - 5320	802.11be EHT20 CDD	21.49	140.93
5260 - 5320	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5270 - 5310	802.11be EHT40 CDD	22.89	194.54
5270 - 5310	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5290	802.11be EHT80 CDD	17.92	61.94
5290	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5250	802.11be EHT160 CDD	17.81	60.39
5250	802.11be EHT160 SDM	Covered by 802.11be EHT160 2TX CDD	

UNII-2C BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
UNII-2C band, 1TX			
5500 - 5720	802.11a	Covered by 802.11n HT20 1TX	
5500 - 5720	802.11n HT20	20.51	112.46
5510 - 5710	802.11n HT40	20.50	112.20
5500 - 5720	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5510 - 5710	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5530 - 5690	802.11ac VHT80	20.51	112.46
5570	802.11ac VHT160	16.09	40.64
5500 - 5720	802.11be EHT20	20.46	111.17
5510 - 5710	802.11be EHT40	20.47	111.43
5530 - 5690	802.11be EHT80	20.55	113.50
5570	802.11be EHT160	15.95	39.36
UNII-2C band, 2TX			
5500 - 5720	802.11n HT20 CDD	21.24	133.05
5500 - 5720	802.11n HT20 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5510 - 5710	802.11n HT40 CDD	22.89	194.54
5510 - 5710	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5500 - 5720	802.11ac VHT20 SDM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5510 - 5710	802.11ac VHT40 SDM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5530 - 5690	802.11ac VHT80 CDD	22.90	194.98
5530 - 5690	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5570	802.11ac VHT160 CDD	17.60	57.54
5570	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5500 - 5720	802.11be EHT20 CDD	21.17	130.92
5500 - 5720	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5510 - 5710	802.11be EHT40 CDD	22.95	197.24
5510 - 5710	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5530 - 5690	802.11be EHT80 CDD	22.90	194.98
5530 - 5690	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5570	802.11be EHT160 CDD	17.38	54.70
5570	802.11be EHT160 SDM	Covered by 802.11be EHT160 2TX CDD	

UNII-3 BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8 GHz band, 1TX			
5745 - 5825	802.11a	Covered by 802.11n HT20 1TX	
5745 - 5825	802.11n HT20	20.51	112.46
5755 - 5795	802.11n HT40	20.47	111.43
5745 - 5825	802.11ac VHT20	Covered by 802.11n HT20 1TX	
5755 - 5795	802.11ac VHT40	Covered by 802.11n HT40 1TX	
5775	802.11ac VHT80	20.49	111.94
5745 - 5825	802.11be EHT20	20.50	112.20
5755 - 5795	802.11be EHT40	20.38	109.14
5775	802.11be EHT80	20.46	111.17
5.8 GHz band, 2TX			
5745 - 5825	802.11n HT20 CDD	23.25	211.35
5745 - 5825	802.11n HT20 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5755 - 5795	802.11n HT40 CDD	23.31	214.29
5755 - 5795	802.11n HT40 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5745 - 5825	802.11ac VHT20 STM/STBC/CDD	Covered by 802.11n HT20 2TX CDD	
5755 - 5795	802.11ac VHT40 STM/STBC/CDD	Covered by 802.11n HT40 2TX CDD	
5775	802.11ac VHT80 CDD	23.31	214.29
5775	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5745 - 5825	802.11be EHT20 CDD	23.40	218.78
5745 - 5825	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5755 - 5795	802.11be EHT40 CDD	23.21	209.41
5755 - 5795	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5775	802.11be EHT80 CDD	23.18	207.97
5775	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLES LOSS

The antenna(s) gain and type (PIFA), as provided by the manufacturer' are as follows:

STATE A

Frequency Range (MHz)	ANT6 (dBi)	ANT5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-1.6	-0.8	-1.20	1.80
5250 - 5350 UNII - 2A	-1.4	1.0	-0.10	2.90
5500 - 5700 UNII - 2C	-1.0	0.8	-0.20	2.80
5725 - 5825 UNII 3	-0.7	1.4	-0.50	2.10

STATE B

Frequency Range (MHz)	ANT6 (dBi)	ANT5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-1.0	-0.2	-0.60	2.40
5250 - 5350 UNII - 2A	-0.6	0.7	0.10	3.10
5500 - 5700 UNII - 2C	-0.5	1.1	-0.40	2.50
5725 - 5825 UNII 3	-0.4	1.9	-0.30	2.30

Cable Loss		
Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)
5150 - 5250 UNII - 1	-1.94	-2.68
5250 - 5350 UNII - 2A	-1.96	-2.67
5500 - 5700 UNII - 2C	-2.02	-2.82
5725 - 5825 UNII 3	-2.06	-2.88

The cables were used for RF antenna port tests that had been offset to the test equipment during testing.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware is 24A34.

6.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. The following table exhibits the worst-case orientation. The full tests of the EUT have been made upon the orientations shown in the table below.

STATE	ANT6	ANT16	ANT6+ANT16
A	Y-Landscape	Y-Landscape	Y-Landscape
B	Z- Portrait	Z- Portrait	Z- Portrait

802.11n 2TX and 802.11be 2TX modes were used to perform on radiated harmonic spurious final test to cover all SISO modes. Max power was tuned to maximum based on among all the modes. For testing purposes, radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-40GHz, and power line conducted emissions were performed with the EUT set at the 2TX CDD mode among the CDD/SDM modes with power setting equal or higher than FCC/ISED conducted SISO modes as worst-case scenario.

For Radiated band edge test all test modes have been investigated with power setting equal or higher than FCC/ISED conducted SISO modes as worst-case scenario. For 80MHz and 160MHz MRU, worst emissions were chosen closest to the edge for testing.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz, the worst-case configuration reported was tested with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop. There were no emissions found below 30MHz within 20dB of the limit.

All simultaneous transmission combinations have been investigated, and no signal emissions were observed.

With same power on Full RU and SU higher data rate, investigation were performed on both band edge to determine the worst case, and SU mode was determined to be the worst case.

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. For radiated band edge, the following are the worst-case data rates set for test:

802.11n HT20 mode: MCS7
 802.11n HT40 mode: MCS7
 802.11ac VHT80 mode: MCS9
 802.11ac VHT160 mode MCS9
 802.11be: EHT20/ EHT40/ EHT80/EHT160 RU, MRU, and SU mode: MCS11

802.11a and 802.11ac are covered by 802.11n because the modulation and bandwidth of 802.11a, 802.11ac, and 802.11n modes are similar, and the target power of 802.11a and 802.11ac modes are equal to or lower than that of 802.11n mode. The modulation and bandwidth of 802.11ax and 802.11be modes are similar at 20 MHz (40 MHz, 80 MHz, 160 MHz), and the target power of 802.11ax mode is equal to or lower than that of 802.11be mode, and the data rate of 802.11be mode is higher than 802.11ax mode, so 802.11be mode is performed in the test to represent worst-case reporting.

The target power of SDM mode is equal to or lower than that of CDD mode. CDD correlated antenna gain is also worst-case, so CDD mode is performed in the test to represent worst-case reporting.

40MHz/80MHz/160MHz 242T are covered by 20MHz SU/242T and 80MHz/160MHz 484T are covered by 40MHz SU/484T because they have the same tune up. Only those indexes with different tune up are set for tests.

Plots included in the report are representative of the method and settings parameters used for the test.

If Keysight PXA supporting both AC and DC coupling then there will be a warning condition message appearing on the status line "DC coupled".

After the investigation, the worst case of power and PSD modes selecting for test are as table shown below.

For conducted tests, the highest output power for ANT6 and ANT5 between State A and State B is represented in this report for UNII bands 1, 2A, 2C, and 3, using the higher antenna gain between State A and State B to demonstrate compliance.

For radiated tests, full testing was performed on both State A and State B due to differences in antenna gain between the two states.

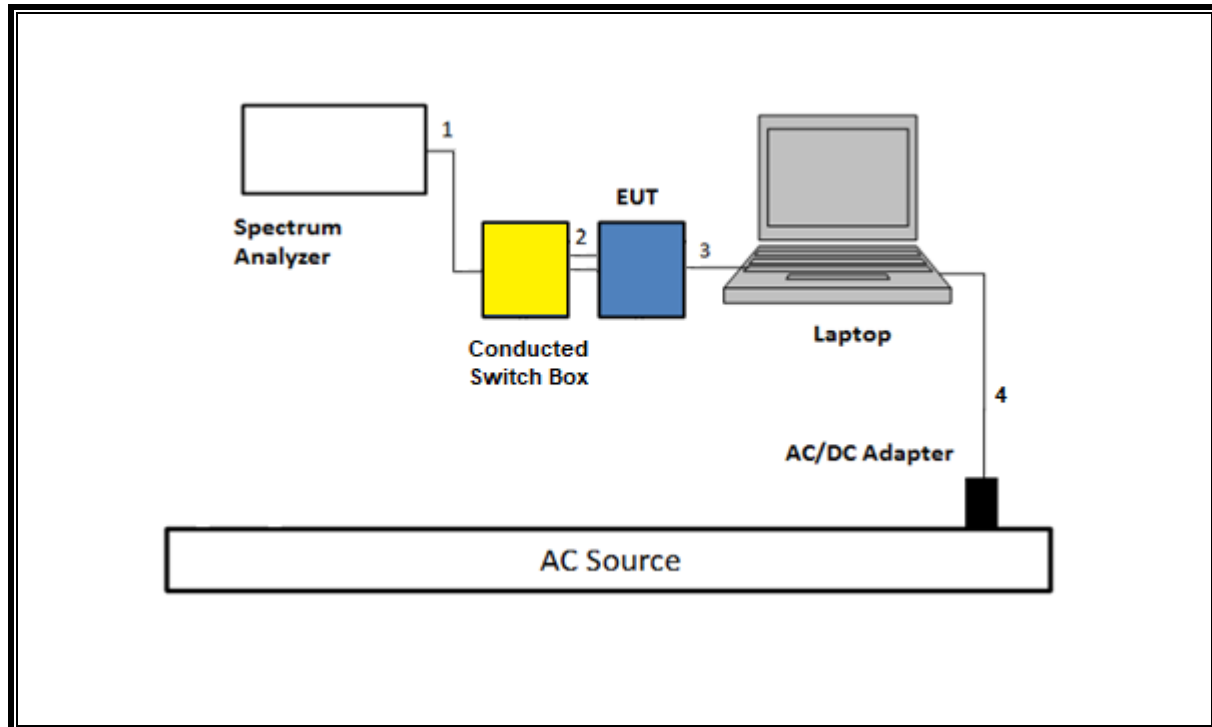
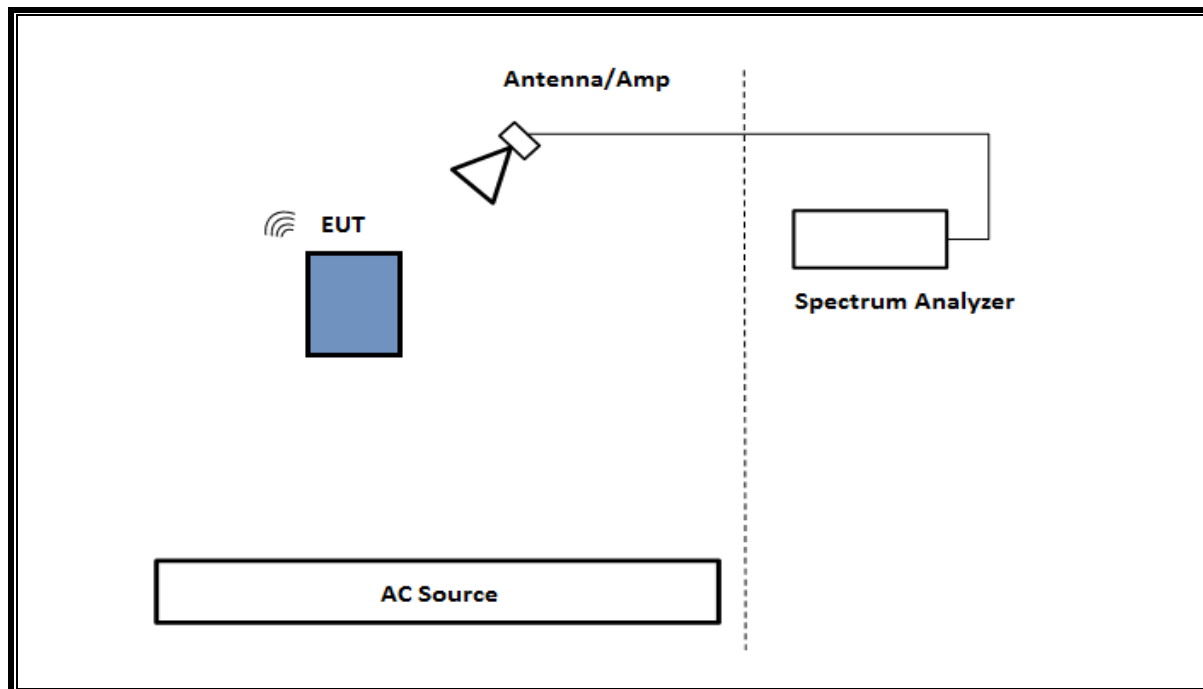
WIFI 7 - 802.11be																					
BW (MHz)	Tone (T)	RU Index	Test RU Index			Worst Case Tone (UNII-1 SISO)		Worst Case Tone (UNII-1 MIMO)		Worst Case Tone (UNII-2A SISO)		Worst Case Tone (UNII-2A MIMO)		Worst Case Tone (UNII-2C SISO)		Worst Case Tone (UNII-2C MIMO)		Worst Case Tone (UNII-3 SISO)		Worst Case Tone (UNII-3 MIMO)	
			Low	Mid	High	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD	Power	PSD
20	26	0 ~ 8	0	4	8		x		x										x		x
	52	37 ~ 40	37	38	40																
	52 + 26	70 ~ 81	70	71	72						x		x		x		x				
	106	53 ~ 54	53	--	54																
	106 + 26	82 ~ 89	82	--	83																
	242	61	--	61	--																
	SU	--	--	--	--	x		x		x		x		x		x		x		x	
40	484	65	--	65	--																
	SU	--	--	--	--	x		x		x		x		x		x		x		x	
80	484 + 242	90, 91, 92, 93	91	93	92	x		x		x		x		x		x		x		x	
	996	67	--	67	--																
	SU	--	--	--	--	x		x		x		x		x		x		x		x	
160	996 + 484	sb0: 94, 95 sb1: 94, 95	95 (sb0)	95 (sb1)	94 (sb1)																
	996 + 484 + 242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	97 (sb0)	99 (sb1)	98 (sb1)	x		x		x		x		x		x		x			
	996x2	S68	--	S68	--																
	SU	--	--	--	--	x		x		x		x		x		x					

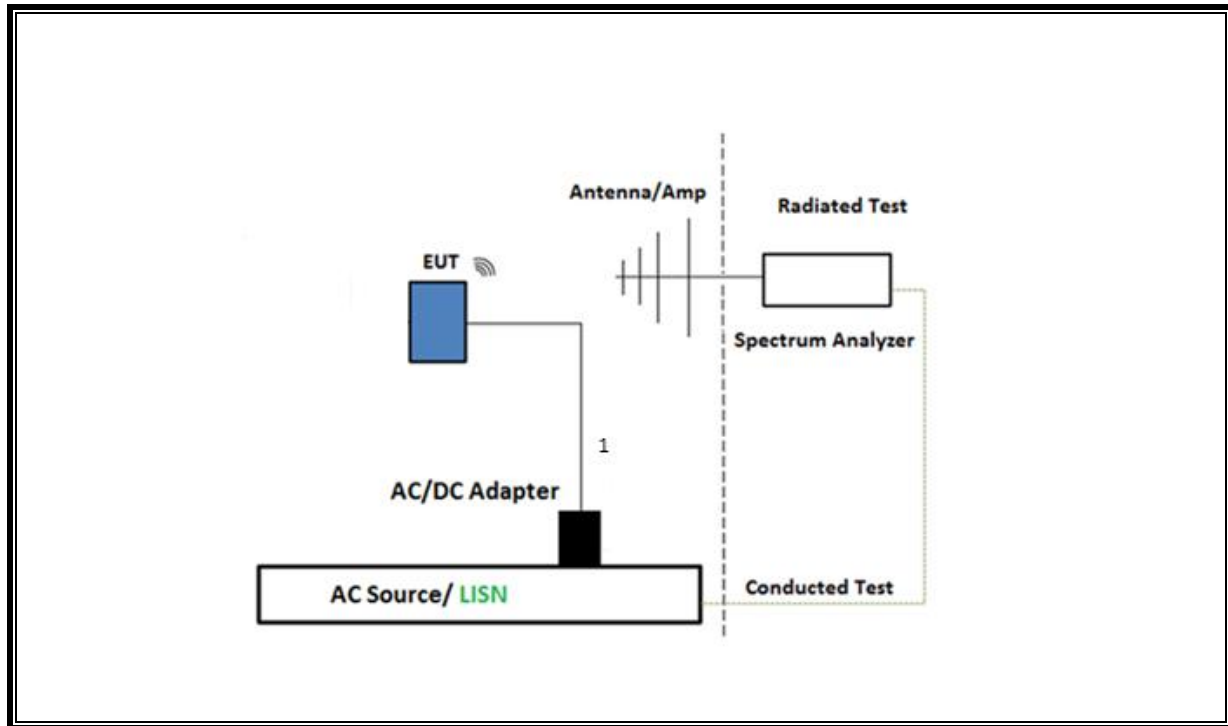
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Apple	Macbook Pro	C02VD7SAHV22		BCGA1708
Laptop AC/DC adapter		Liteon Technology	A1424	NSW25679		DoC
EUT AC/DC adapter		Apple	A1720	C3D8417A7R93KVPA8		DoC
Conducted Switch Box		UL	N/A	208281		N/A
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.2	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	EUT to Switchbox
3	USB	1	USB-C	Shielded	1.0	N/A
4	DC	1	DC	Shielded	2	N/A
I/O CABLES (RF RADIATED AND AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A

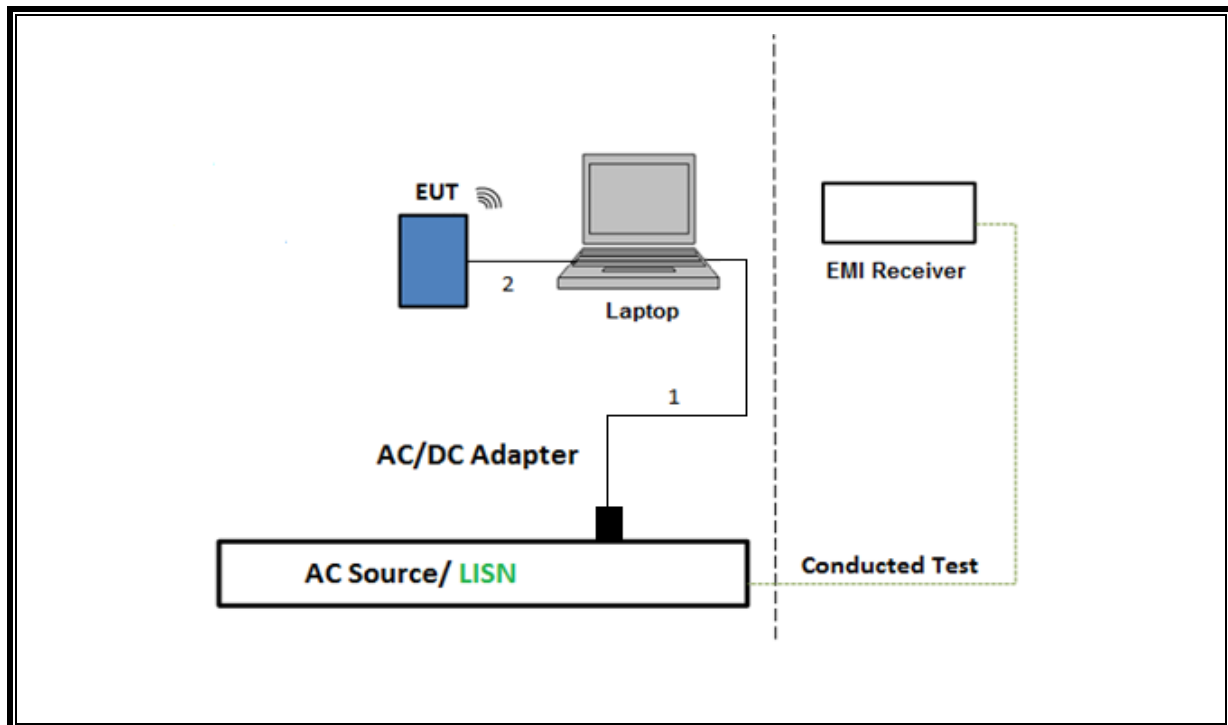
TEST SETUP

The EUT setup is shown as below. Test software exercised the radio card.

SETUP DIAGRAM FOR CONDUCTED TESTS**SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz****SETUP DIAGRAM FOR Below 1GHz and AC LINE CONDUCTED TEST**



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A-544	87738	2027-01-31
RF Device, Switch	UL	CSB	245774	2026-10-31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	222074	2027-04-30
RF Device, Switch	UL	CSB	262288	2026-12-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85214	2027-01-31
RF Device, Switch	UL	CSB	245783	2027-01-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2027-01-31
RF Device, Switch	UL	CSB	245781	2026-12-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85313	2027-01-31
RF Device, Switch	UL	CSB	235779	2026-12-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2027-01-31
RF Device, Switch	UL	CSB	245773	2026-12-31
PXA, Signal Analyzer	Keysight Technologies Inc	N9030B-526	275855	2027-02-27
RF Device, Switch	UL	CSB	274334	2027-01-31
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85212	2027-01-31
RF Device, Switch	UL	CSB	267441	2027-01-31
Filter Box	UL-FR1	R103, 2 Amp, 12 Port, 40GHz	279299	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	200784	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	275999	2027-03-31
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	250156	2026-10-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	226674	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2027-02-28
Filter Box	UL-FR1	R102, 1 Amp, 12 Port	230878	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	200897	2028-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	277010	2027-01-31
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	231874	2027-02-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	80402	2027-07-31
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	170063	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	231875	2026-12-30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	223084	2026-12-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	170063	2027-02-28
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171389	2027-03-30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222740	2026-09-09
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226078	2027-02-28
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171875	2027-03-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	80707	2027-08-31
EMI TEST RECEIVER, with B8 option	Rohde & Schwarz	ESW44	245268	2028-02-28
Filter Box	UL-FR1	RATS 3.0, 3 Amp, 7 Port	243707	2027-04-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	41112	2026-10-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	217255	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	277002	2028-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223462	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	217521	2026-09-30
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222741	2027-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223461	2027-02-28
Filter Box	UL-FR1	Frankenstein, 2 Amp, 12	224478	2027-01-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	80430	2026-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201499	2027-03-30
Filter Box	UL-FR1	R103 2Amp 12Port	235088	2027-05-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	200785	2026-12-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201500	2027-02-28
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	236726	2026-09-30

TEST EQUIPMENT LIST Continued				
Description	Manufacturer	Model	ID Num	Cal Due
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225575	2027-01-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	81887	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2027-04-30
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	226781	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	206805	2026-08-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223459	2027-02-28
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	226780	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	230299	2027-02-28
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226079	2027-02-26
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224489	2026-09-30
Antenna, Broadband Hybrid, 30MHz-3GHz	Sunol Sciences Corp.	JB3	204045	2027-05-31
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224489	2026-09-30
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170014	2027-09-30
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO-METRICS	EM-6872	170016	2027-09-30
Antenna, Horn 18-26.5GHz	A.R.A	MWH-1826/B	81139	2027-10-31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	Amplical	AMP18G26.5-60	220194	2027-10-31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	172366	2027-05-31
Link File, RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	220193	2027-10-31
Power Sensor, Real-Time Peak, 50MHz to 8GHz	Boonton Electronics	RTP5008	213183	2027-01-31
Power Sensor, Real-Time Peak, 50MHz to 8GHz	Boonton Electronics	RTP5008	213206	2027-01-31
Power Sensor, Real-Time Peak, 50MHz to 8GHz	Boonton Electronics	RTP5008	277849	2027-03-31
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 8 Port	197920	2027-04-28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206806	2027-03-31
EMI TEST RECEIVER	ESW44	Rohde & Schwarz	225688	2027-02-28
Filter Box	UL-FR1	RATS 1.0, 2 Amp, 6 Port	171013	2027-06-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206807	2027-04-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191429	2027-02-28
Filter Box	UL-FR1	R103, 2 Amp, 12 Port	278885	2027-06-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	79834	2027-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201502	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12 Port	216812	2027-07-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	200896	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	230548	2027-02-28

AC LINE CONDUCTED				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESCI 7	82297	2027-02-28
Transient Limiter / Attenuator	Tekbox	TBFL1	207996	2026-12-30
LISN	Fischer Custom Communications, Inc.	FCC-LISN-50/250-25-2-01-480V	175765	2027-01-31

UL AUTOMATION SOFTWARE			
Conducted Software	UL	Antenna Port	Ver 2024.2.23
Conducted Software	UL	Station Tool	Ver 2026.6.0
Radiated Software	UL	UL EMC	Ver 9.5, Aug 25, 2025
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Aug 25, 2025

8. MEASUREMENT METHOD

TEST ITEM	TEST METHOD
On Time and Duty Cycle	ANSI C63.10 Subclause -12.2
6 dB Emission BW	ANSI C63.10 Subclause -12.5.1
26 dB Emission BW	ANSI C63.10 Subclause -12.5.2
99% Occupied BW	ANSI C63.10 Subclause - 6.9.3
Conducted Output Power	ANSI C63.10 Subclause -12.4.3.2 (Method PM-G)
Power Spectral Density	ANSI C63.10 Subclause -12.6
Unwanted Emissions in Restricted Bands	ANSI C63.10 Subclause -12.7.2
Unwanted Emissions in Non-Restricted Bands	ANSI C63.10 Subclause -12.7.3
AC Power Line Conducted Emissions	ANSI C63.10, Section 6.2
Radiated Spurious Emissions Below 30MHz	ANSI C63.10, Section 6.4

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

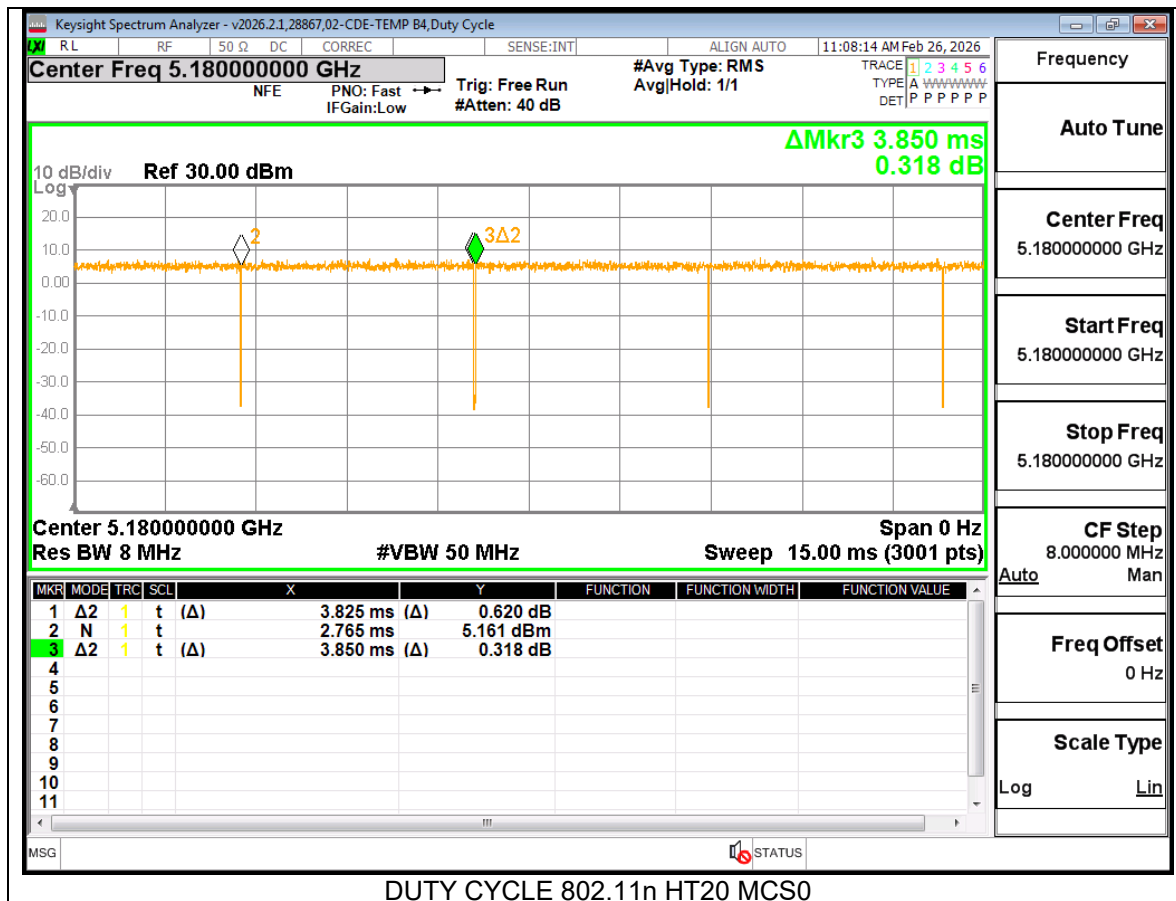
None; for reporting purposes only.

PROCEDURE

ANSI C63.10, Subclause 12.2 (b)(2)

ON TIME AND DUTY CYCLE RESULTS

Mode	Tone	Data Rate (Mbps)	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
11n HT20	None	MCS0	3.825	3.850	0.9935	99.35	0.00	0.010
		MCS7	4.005	4.030	0.9938	99.38	0.00	0.010
11n HT40	None	MCS0	4.595	4.620	0.9946	99.46	0.00	0.010
		MCS7	1.948	1.973	0.9873	98.73	0.00	0.010
11ac VHT80	None	MCS0	5.087	5.113	0.9949	99.49	0.00	0.010
		MCS9	2.059	2.085	0.9875	98.75	0.00	0.010
11ac VHT160	None	MCS0	5.293	5.320	0.9949	99.49	0.00	0.010
		MCS9	1.052	1.077	0.9768	97.68	0.10	0.951
11be EHT20	SU	MCS0	4.620	4.650	0.9935	99.35	0.00	0.010
		MCS11	5.433	5.460	0.9951	99.51	0.00	0.010
	26T	MCS0	2.029	2.064	0.9830	98.30	0.00	0.010
		MCS11	2.029	2.064	0.9830	98.30	0.00	0.010
	52+26T	MCS0	2.027	2.064	0.9821	98.21	0.00	0.010
		MCS11	2.029	2.064	0.9830	98.30	0.00	0.010
11be EHT40	SU	MCS0	5.373	5.400	0.9950	99.50	0.00	0.010
		MCS11	2.977	3.003	0.9913	99.13	0.00	0.010
11be EHT80	SU	MCS0	5.093	5.167	0.9857	98.57	0.00	0.010
		MCS11	1.462	1.487	0.9832	98.32	0.00	0.010
	484+242T	MCS0	2.027	2.064	0.9821	98.21	0.00	0.010
		MCS11	2.027	2.064	0.9821	98.21	0.00	0.010
11be EHT160	SU	MCS0	5.320	5.347	0.9950	99.50	0.00	0.010
		MCS11	0.766	0.791	0.9684	96.84	0.14	1.305
	996+484+242T	MCS0	2.027	2.064	0.9821	98.21	0.00	0.010
		MCS11	2.027	2.064	0.9821	98.21	0.00	0.010



9.2. 26 dB AND 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

PROCEDURE

ANSI C63.10 Subclause - 6.9.3 & 12.5.2

Band	Tones	20MHz (RBW/VBW)	40MHz (RBW/VBW)	80MHz (RBW/VBW)	160MHz (RBW/VBW)
UNII- 1/2A/2C/3	Partial RU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

Plots included in the report are representative of the method and settings parameters used for the test.

ID:	116986	Date:	2026-05-21
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9.2.1. 802.11n/ac SISO MODE

Band (SISO)	Mode	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
				ANT6	ANT5	ANT6	ANT5
UNII-1	HT20 (FCC)	5180	36	23.36	23.19	18.13	18.15
		5200	40	23.23	23.15	18.12	18.12
		5240	48	23.08	23.35	18.14	18.13
	HT40 (FCC)	5190	38	44.97	46.28	36.78	36.94
		5230	46	45.60	44.94	36.78	36.89
	VHT80 (FCC)	5210	42	81.51	81.36	75.91	75.89
UNII-2A	HT20	5260	52	22.81	23.46	18.14	18.15
		5300	60	23.27	23.64	18.21	18.17
		5320	64	23.32	23.64	18.11	18.15
	HT40	5270	54	44.81	45.54	36.82	36.89
		5310	62	45.39	45.75	36.89	36.86
	VHT80	5290	58	81.59	82.10	75.92	75.92
	VHT160	5250	50	163.40	165.70	154.82	155.01
UNII-2C	HT20	5500	100	23.94	20.72	18.10	17.62
		5580	116	23.59	22.43	18.13	17.89
		5700	140	23.08	20.91	18.15	17.58
		5720 (Straddle)	144	23.18	23.48	18.22	17.94
	HT40	5510	102	46.05	42.17	36.83	36.14
		5550	110	45.27	44.19	36.87	36.63
		5670	134	44.79	43.40	36.84	36.57
		5710 (Straddle)	142	46.10	44.63	36.83	36.60
	VHT80	5530	106	81.88	80.30	76.00	75.34
		5610	122	81.73	81.27	75.97	75.90
		5690 (Straddle)	138	81.52	81.63	76.01	75.94
	VHT160	5570	114	165.90	163.10	155.28	154.23
UNII-3	HT20	5745	149	23.24	23.15	18.16	18.19
		5785	157	23.07	23.27	18.12	18.11
		5825	165	23.53	23.48	18.11	18.10
	HT40	5755	151	45.70	45.15	36.84	36.89
		5795	159	44.82	45.86	36.85	36.79
	VHT80	5775	155	81.43	81.96	75.94	75.96

9.2.2. 802.11n/ac MIMO CDD MODE

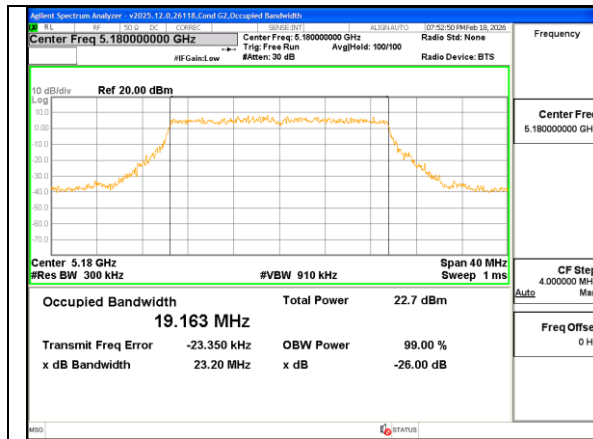
Band (MIMO CDD)	Mode	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
				ANT6	ANT5	Min BW	ANT6	ANT5	Min BW
UNII-1	HT20 (FCC)	5180	36	23.32	22.64	—	18.14	18.07	—
		5200	40	23.35	23.50	—	18.14	18.13	—
		5240	48	23.89	23.16	—	18.13	18.11	—
	HT40 (FCC)	5190	38	46.41	43.91	—	36.87	36.66	—
		5230	46	45.15	44.87	—	36.93	36.71	—
	VHT80 (FCC)	5210	42	81.54	81.37	—	76.03	75.90	—
UNII-2A	HT20	5260	52	23.53	23.18	23.18	18.14	18.09	18.09
		5300	60	22.94	22.79	22.79	18.16	18.03	18.03
		5320	64	24.21	23.64	23.64	18.25	18.06	18.06
	HT40	5270	54	45.43	43.48	43.48	36.85	36.64	36.64
		5310	62	45.31	44.47	44.47	36.90	36.68	36.68
	VHT80	5290	58	81.86	81.46	81.46	75.95	76.00	75.95
UNII-2C	HT20	5250	50	163.60	164.00	163.60	155.27	155.02	155.02
		5500	100	23.08	20.55	20.55	18.16	17.56	17.56
		5580	116	22.97	22.02	22.02	18.16	17.81	17.81
		5700	140	23.55	20.55	20.55	18.12	17.57	17.57
	HT40	5720 (Straddle)	144	23.33	21.92	21.92	18.16	17.80	17.80
		5510	102	45.27	40.53	40.53	36.87	36.05	36.05
		5550	110	45.91	43.39	43.39	36.79	36.47	36.47
		5670	134	45.94	42.18	42.18	36.87	36.52	36.52
	VHT80	5710 (Straddle)	142	45.37	41.96	41.96	36.92	36.49	36.49
		5530	106	81.75	80.05	80.05	75.95	75.33	75.33
		5610	122	81.63	81.26	81.26	75.97	76.06	75.97
		5690 (Straddle)	138	81.58	81.71	81.58	76.11	75.98	75.98
UNII-3	VHT160	5570	114	166.30	163.40	163.40	154.96	154.42	154.42
		5745	149	23.43	22.30	—	18.13	18.03	—
		5785	157	23.51	23.06	—	18.17	17.99	—
	HT20	5825	165	23.11	22.75	—	18.15	18.12	—
		5755	151	45.12	43.97	—	36.86	36.73	—
		5795	159	45.28	44.18	—	36.97	36.70	—
	VHT80	5775	155	81.35	81.26	—	75.95	75.97	—

9.2.3. 802.11be SISO MODE IN THE UNII-1 BAND

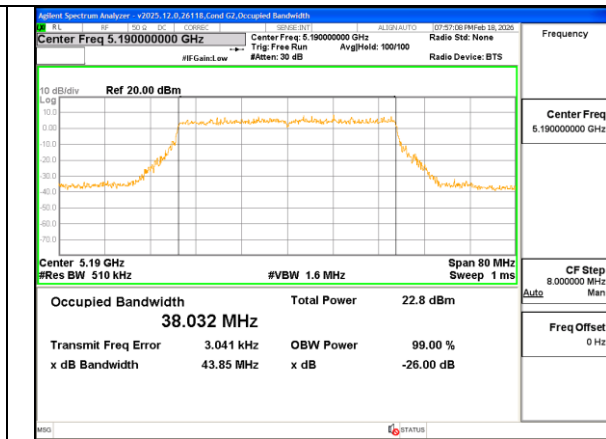
UNII-1 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT5	ANT6	ANT5
EHT20 (FCC)	5180	36	SU	—	23.20	23.56	19.16	19.13
			26T	0	20.64	20.91	18.68	18.69
				4	18.27	18.24	16.94	16.88
				8	20.43	20.40	18.54	18.54
	5200	40	SU	—	23.98	23.69	19.17	19.20
			26T	0	20.87	20.63	18.64	18.67
				4	18.38	18.37	16.94	16.93
				8	20.41	20.19	18.45	18.45
	5240	48	SU	—	23.18	23.14	19.16	19.14
			26T	0	20.67	20.75	18.66	18.64
				4	18.10	18.23	16.89	16.89
				8	20.44	20.72	18.50	18.50
EHT40 (FCC)	5190	38	SU	—	43.85	46.04	38.03	38.15
	5230	46	SU	—	44.35	44.90	38.11	38.15
EHT80 (FCC)	5210	42	SU	—	81.81	82.43	77.55	77.52
			484+242T	91	82.41	82.53	77.90	77.79
				92	82.49	82.60	77.88	77.86
				93	63.66	63.53	58.68	58.62
EHT160 (FCC)	5250	50	SU	—	165.10	165.00	156.18	156.50
			996+484+242T	97	169.90	169.09	156.51	156.76
				S98	169.66	170.20	156.55	156.99
				S99	144.71	144.46	137.31	137.51

9.2.4. 802.11be MIMO CDD MODE IN THE UNII-1 BAND

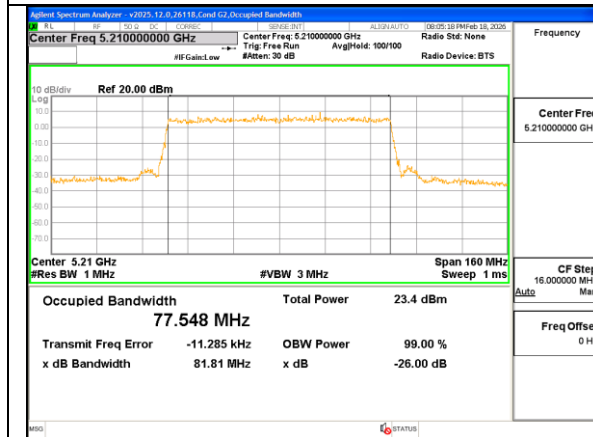
UNII-1 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)			
					ANT6	ANT5	Min BW	ANT6	ANT5	Min BW	
EHT20 (FCC)	5180	36	SU	—	22.78	23.18	—	19.11	19.11	—	
				0	20.45	20.38	—	18.67	18.55	—	
			26T	4	18.32	18.21	—	16.91	16.74	—	
				8	20.40	20.25	—	18.52	18.47	—	
	5200	40	SU	—	23.13	22.58	—	19.16	19.14	—	
				0	20.64	20.28	—	18.71	18.48	—	
			26T	4	18.32	18.23	—	16.84	16.72	—	
				8	20.43	20.15	—	18.47	18.46	—	
	5220	44	SU	—	22.93	22.51	—	19.08	19.04	—	
				0	20.48	20.46	—	18.60	18.46	—	
			26T	4	18.22	18.20	—	16.88	16.74	—	
				8	20.50	20.57	—	18.49	18.42	—	
	5240	48	SU	—	23.55	22.70	—	19.13	19.13	—	
				0	20.61	20.06	—	18.72	18.42	—	
			26T	4	18.34	18.16	—	16.87	16.76	—	
				8	20.49	20.25	—	18.44	18.48	—	
EHT40 (FCC)	5190	38	SU	—	44.98	44.33	—	38.16	38.05	—	
	5230	46	SU	—	45.33	45.03	—	38.11	38.29	—	
EHT80 (FCC)	5210	42	484+242T	SU	—	81.57	82.11	—	77.60	77.63	—
				91	82.15	82.26	—	77.91	77.81	—	
				92	82.38	82.30	—	77.95	77.73	—	
				93	63.13	62.98	—	58.51	58.57	—	
EHT160 (FCC)	5250	50	996+484+242T	SU	—	164.60	164.30	—	156.23	156.47	—
				97	163.12	168.62	—	156.75	156.71	—	
				S98	168.25	169.01	—	156.77	156.79	—	
				S99	145.02	144.26	—	137.33	137.53	—	



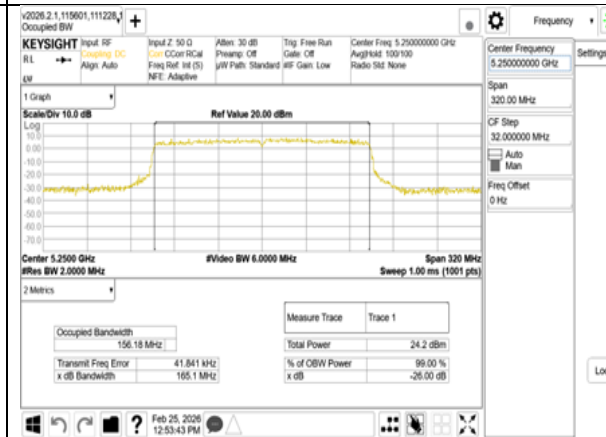
20 MHz - UNII-1 - SISO - Low Channel - ANT6



40 MHz - UNII-1 - SISO - Low Channel - ANT6



80 MHz - UNII-1 - SISO - Low Channel - ANT6



160 MHz - UNII-1 - SISO - Low Channel - ANT6

9.2.5. 802.11be SISO MODE IN THE UNII-2A BAND

UNII-2A (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT5	ANT6	ANT5
EHT20	5260	52	SU	—	23.32	23.59	19.17	19.18
			52+26T	70	20.30	20.05	17.13	17.10
				71	19.42	19.38	17.05	17.05
				72	19.58	20.11	17.08	17.06
	5300	60	SU	—	22.91	23.70	19.17	19.14
			52+26T	70	19.92	20.34	17.10	17.09
				71	19.27	19.11	17.03	16.98
				72	19.50	19.47	17.02	17.03
	5320	64	SU	—	24.17	23.12	19.14	19.12
			52+26T	70	20.10	20.23	17.07	17.13
				71	19.10	19.27	16.92	16.90
				72	19.81	19.71	17.07	17.08
EHT40	5270	54	SU	—	44.19	44.12	38.20	38.15
	5310	62	SU	—	44.41	45.02	38.07	38.21
EHT80	5290	58	SU	—	82.66	82.22	77.57	77.70
			484+242T	91	82.41	82.90	77.98	77.85
				92	82.54	82.31	77.77	77.89
				93	62.99	63.18	58.63	58.63
EHT160	5250	50	SU	—	165.10	165.00	156.18	156.50
			996+484+242T	97	169.90	169.09	156.51	156.76
				S98	169.66	170.20	156.55	156.99
				S99	144.71	144.46	137.31	137.51

9.2.6. 802.11be MIMO CDD MODE IN THE UNII-2A BAND

UNII-2A (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
					ANT6	ANT5	Min BW	ANT6	ANT5	Min BW
EHT20	5260	52	SU	—	23.22	23.37	23.22	19.12	19.17	19.12
			52+26T	70	20.18	19.11	19.11	17.07	16.91	16.91
				71	19.61	18.59	18.59	17.01	16.89	16.89
				72	19.67	19.40	19.40	17.09	16.91	16.91
	5300	60	SU	—	23.76	23.10	23.10	19.19	19.14	19.14
			52+26T	70	20.11	19.53	19.53	17.08	17.00	17.00
				71	18.94	18.61	18.61	17.02	16.87	16.87
				72	19.75	19.53	19.53	16.99	16.96	16.96
	5320	64	SU	—	23.65	22.88	22.88	19.15	19.14	19.14
			52+26T	70	20.05	19.80	19.80	17.02	16.94	16.94
				71	19.33	18.48	18.48	17.03	16.89	16.89
				72	19.44	19.30	19.30	17.09	16.92	16.92
EHT40	5270	54	SU	—	44.82	45.39	44.82	38.16	38.15	38.15
	5310	62	SU	—	46.22	42.99	42.99	38.11	38.28	38.11
EHT80	5290	58	SU	—	82.03	81.77	81.77	77.71	77.69	77.69
			484+242T	91	82.23	82.27	82.23	77.90	77.74	77.74
				92	82.55	82.19	82.19	77.78	77.88	77.78
				93	63.08	63.08	63.08	58.69	58.49	58.49
EHT160	5250	50	SU	—	164.60	164.30	164.30	156.23	156.47	156.23
			996+484+242T	97	163.12	168.62	163.12	156.75	156.71	156.71
				S98	168.25	169.01	168.25	156.77	156.79	156.77
				S99	145.02	144.26	144.26	137.33	137.53	137.33

9.2.7. 802.11be SISO MODE IN THE UNII-2C BAND

UNII-2C (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT5	ANT6	ANT5
EHT20	5500	100	SU	—	23.70	21.18	19.16	18.77
			52+26T	70	19.48	20.19	17.08	17.12
				71	19.36	19.38	17.07	16.96
				72	19.64	19.50	17.03	17.05
	5580	116	SU	—	23.00	22.45	19.17	19.02
			52+26T	70	20.00	20.56	17.14	17.06
				71	19.42	19.36	17.00	17.02
				72	19.53	19.79	17.06	17.02
	5700	140	SU	—	23.03	21.30	19.11	18.80
			52+26T	70	20.06	20.46	17.11	17.07
				71	19.18	19.26	17.01	16.99
				72	19.79	20.09	17.09	17.04
	5720 (Straddle)	144	SU	—	23.33	21.87	19.14	19.10
			52+26T	70	20.22	20.07	17.06	17.06
				71	19.36	19.35	17.00	16.92
				72	19.84	19.61	17.01	16.96
EHT40	5510	102	SU	—	45.71	44.55	38.23	38.14
	5550	110	SU	—	44.96	43.44	38.16	37.95
	5670	134	SU	—	44.74	43.84	38.23	37.87
	5710 (Straddle)	142	SU	—	44.84	43.66	38.16	38.00
EHT80	5530	106	SU	—	82.29	81.47	77.67	76.98
			484+242T	91	82.46	82.29	77.88	77.79
				92	82.21	82.10	77.85	77.95
				93	63.50	63.07	58.66	58.56
	5610	122	SU	—	82.41	81.83	77.65	77.68
			484+242T	91	82.31	82.06	77.87	77.93
				92	82.34	82.72	77.77	77.90
				93	62.95	63.35	58.58	58.68
	5690 (Straddle)	138	SU	—	82.67	82.22	77.74	77.60
			484+242T	91	82.51	82.56	77.87	77.97
				92	82.17	82.59	77.94	77.86
				93	63.15	63.45	58.63	58.55
EHT160	5570	114	SU	—	163.70	164.10	156.52	155.84
			996+484+242T	97	168.28	169.24	156.95	157.02
				S98	178.46	169.04	157.05	157.10
				S99	144.69	144.87	137.74	137.81

9.2.8. 802.11be MIMO CDD MODE IN THE UNII-2C BAND

UNII-2C (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
					ANT6	ANT5	Min BW	ANT6	ANT5	Min BW
EHT20	5500	100	SU	—	23.51	20.87	20.87	19.23	18.75	18.75
			52+26T	70	19.54	19.23	19.23	17.14	16.87	16.87
				71	19.29	18.64	18.64	17.02	16.89	16.89
				72	19.49	18.91	18.91	17.05	16.91	16.91
	5580	116	SU	—	23.58	22.15	22.15	19.21	19.05	19.05
			52+26T	70	20.22	19.16	19.16	17.11	16.91	16.91
				71	19.38	18.48	18.48	17.02	16.93	16.93
				72	19.93	18.85	18.85	17.07	16.93	16.93
	5700	140	SU	—	23.25	21.31	21.31	19.19	18.75	18.75
			52+26T	70	20.41	19.44	19.44	17.10	16.98	16.98
				71	19.20	18.55	18.55	17.05	16.89	16.89
				72	19.75	18.93	18.93	17.06	16.95	16.95
	5720 (Straddle)	144	SU	—	22.99	22.88	22.88	19.21	19.04	19.04
			52+26T	70	19.83	19.26	19.26	17.08	16.92	16.92
				71	19.25	18.66	18.66	16.99	16.91	16.91
				72	19.62	19.11	19.11	16.95	16.76	16.76
EHT40	5510	102	SU	—	44.86	44.08	44.08	38.15	38.11	38.11
	5550	110	SU	—	44.99	43.83	43.83	38.15	37.92	37.92
	5670	134	SU	—	44.90	43.18	43.18	38.15	38.02	38.02
	5710 (Straddle)	142	SU	—	45.77	43.42	43.42	38.14	38.16	38.14
EHT80	5530	106	SU	—	81.89	81.42	81.42	77.52	77.05	77.05
			484+242T	91	82.24	82.48	82.24	77.88	77.80	77.80
				92	82.55	82.58	82.55	77.90	77.92	77.90
				93	63.29	63.07	63.07	58.64	58.47	58.47
	5610	122	SU	—	82.00	81.70	81.7	77.57	77.68	77.57
			484+242T	91	82.40	82.21	82.21	77.91	77.83	77.83
				92	82.21	82.57	82.21	77.80	77.78	77.78
				93	63.42	63.35	63.35	58.51	58.63	58.51
	5690 (Straddle)	138	SU	—	82.40	82.36	82.36	77.81	77.69	77.69
			484+242T	91	82.15	82.06	82.06	77.90	77.82	77.82
				92	82.35	82.08	82.08	77.85	77.84	77.84
				93	63.16	63.24	63.16	58.64	58.54	58.54
EHT160	5570	114	SU	—	164.6	163.4	163.4	156.78	155.85	155.85
			996+484+242T	97	169.58	167.37	167.37	157.10	156.86	156.86
				S98	177.18	170.77	170.77	157.08	157.23	157.08
				S99	145.38	144.78	144.78	137.84	137.91	137.84

9.2.9. 802.11be SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT5	ANT6	ANT5
EHT20	5745	149	SU	—	23.33	23.19	19.15	19.19
			26T	0	20.80	19.87	18.68	18.37
				4	18.33	18.22	16.96	16.93
				8	20.34	20.06	18.47	18.26
	5785	157	SU	—	23.15	23.99	19.17	19.21
			26T	0	20.02	20.55	18.36	18.65
				4	17.91	18.30	16.17	16.86
				8	20.24	20.36	18.27	18.51
	5825	165	SU	—	22.97	23.13	19.16	19.17
			26T	0	20.61	20.45	18.64	18.56
				4	18.30	18.17	16.96	16.91
				8	20.33	20.55	18.56	18.53
EHT40	5755	151	SU	—	44.08	44.16	38.08	38.05
	5795	159	SU	—	44.21	44.59	38.18	38.20
EHT80	5775	155	484+242T	—	82.58	82.25	77.55	77.67
				91	82.23	82.29	77.87	77.83
				92	82.51	82.89	77.98	77.85
				93	63.44	63.33	58.62	58.59

9.2.10. 802.11be MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					ANT6	ANT5	ANT6	ANT5
EHT20	5745	149	SU	—	22.62	23.25	19.18	19.22
			26T	0	20.41	20.07	18.69	18.26
				4	18.22	17.93	16.90	16.00
				8	20.72	19.88	18.56	18.22
	5785	157	SU	—	23.98	23.22	19.15	19.09
			26T	0	20.11	20.28	18.37	18.55
				4	18.02	18.17	16.37	16.73
				8	20.13	20.21	18.32	18.55
	5825	165	SU	—	23.72	23.37	19.13	19.11
			26T	0	20.70	20.39	18.67	18.47
				4	18.33	18.21	16.92	16.77
				8	20.43	20.15	18.47	18.52
EHT40	5755	151	SU	—	44.42	44.41	38.09	38.15
	5795	159	SU	—	44.95	44.31	38.11	38.07
EHT80	5775	155	SU	—	82.19	82.41	77.68	77.66
			484+242T	91	82.72	82.06	77.92	77.91
				92	82.58	82.47	77.89	77.92
				93	63.55	63.34	58.53	58.61

9.3. BANDWIDTH VERIFICATION OF CHANNEL PUNCTURING IN THE DFS BANDS

LIMITS

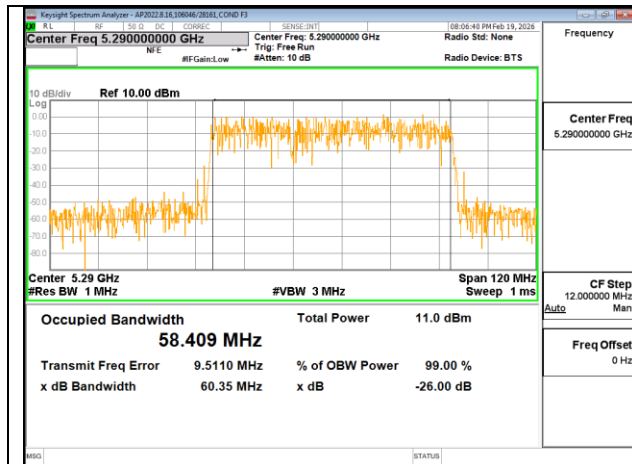
When a 20 MHz portion is punctured the remaining emissions do not bleed into the notched channel, i.e., 26 dB or 99% bandwidth is contained outside of the notched band.

RESULTS

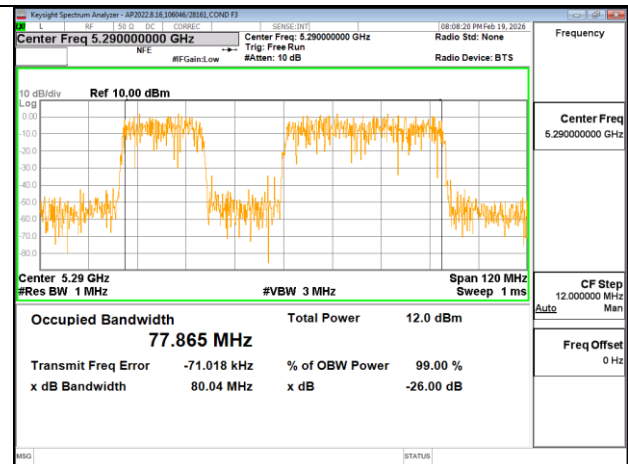
ID:	106046	Date:	2026-02-19
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9.3.1. 802.11be EHT80 SISO MODE

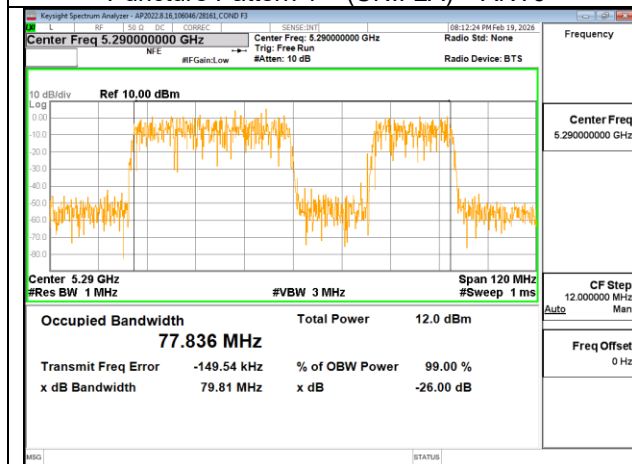
EHT80	SISO	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB?		
						26dB	99% BW	Yes = Pass No = Fail	99% BW (MHz)	
UNII-2A	ANT6	5290	58	484+242	1	60.35	58.409	Yes		
					2	80.04	77.865	Yes	19.28	38.018
					4	79.81	77.836	Yes	37.865	19.283
					8	61.68	58.365	Yes		
UNII-2C		5530	106	484+242	1	61.13	58.371	Yes		
					2	81.62	78.05	Yes	19.208	38.071
					4	79.88	77.724	Yes	38.059	19.325
					8	60.91	58.22	Yes		
		5610	122		1	61.49	58.686	Yes		
					2	79.93	77.728	Yes	19.338	38.269
					4	81	77.35	Yes	38.287	19.13
					8	60.92	58.805	Yes		
		5690 (Straddle)	138		1	61.54	58.245	Yes		
					2	80.03	77.88	Yes	19.138	37.992
					4	80.21	77.547	Yes	38.101	19.174
					8	61.18	58.611	Yes		
UNII-2A	ANT5	5290	58	484+242	1	60.37	58.379	Yes		
					2	80.07	77.227	Yes	19.307	38.101
					4	80.78	77.636	Yes	38.201	19.347
					8	61.46	58.336	Yes		
UNII-2C		5530	106	484+242	1	60.69	58.535	Yes		
					2	80.35	77.629	Yes	19.253	37.586
					4	80.05	77.684	Yes	38.037	19.175
					8	60.71	58.607	Yes		
		5610	122		1	60.64	58.301	Yes		
					2	80.02	77.879	Yes	19.28	38.174
					4	80.06	77.877	Yes	38.031	19.368
					8	60.91	58.067	Yes		
		5690 (Straddle)	138		1	60.63	58.476	Yes		
					2	80.03	77.628	Yes	19.259	38.07
					4	81.56	77.753	Yes	38.328	19.242
					8	60.41	58.441	Yes		



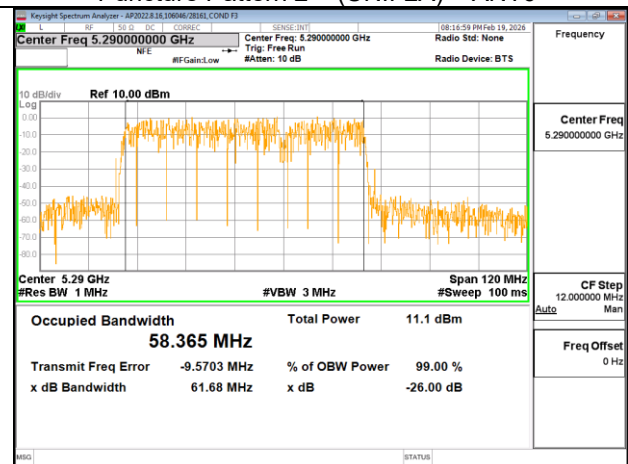
80MHz – 484+242T – Mid Channel –
Puncture Pattern 1 – (UNII-2A) – ANT6



80MHz – 484+242T – Mid Channel –
Puncture Pattern 2 – (UNII-2A) – ANT6



80MHz – 484+242T – Mid Channel –
Puncture Pattern 4 – (UNII-2A) – ANT6



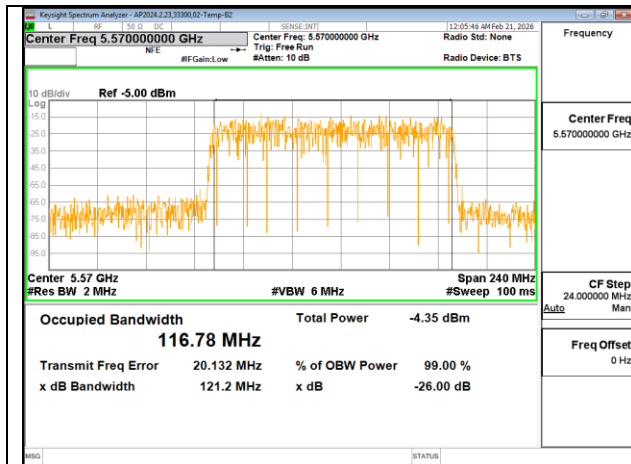
80MHz – 484+242T – Mid Channel –
Puncture Pattern 8 – (UNII-2A) – ANT6

9.3.2. 802.11be EHT80 MIMO CDD MODE

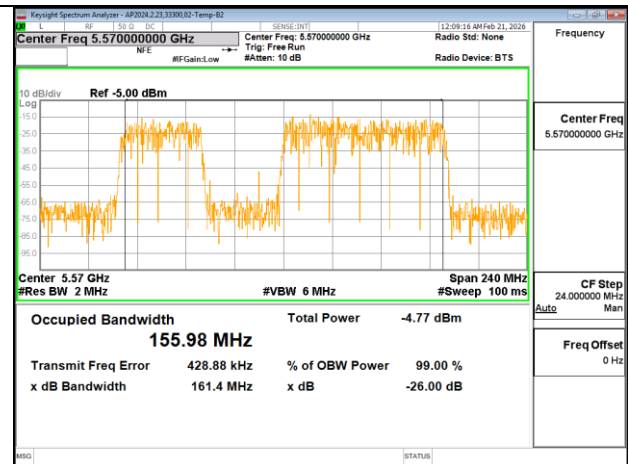
EHT80	MIMO (CDD)	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB?		
						26dB	99% BW	Yes = Pass No = Fail	99% BW (MHz)	
UNII-2A	ANT6	5290	58	484+242	1	61.22	58.536	Yes		
					2	80.27	77.43	Yes	19.26	37.867
					4	80.25	77.997	Yes	38.072	19.298
					8	60.97	58.197	Yes		
UNII-2C		5530	106	484+242	1	60.44	58.205	Yes		
					2	79.93	77.842	Yes	19.147	38.234
					4	79.89	77.342	Yes	37.759	19.11
					8	60.89	58.424	Yes		
		5610	122		1	61.48	58.148	Yes		
					2	80.39	77.729	Yes	19.293	38.165
					4	80.12	77.654	Yes	37.971	19.26
					8	60.72	58.379	Yes		
		5690 (Straddle)	138		1	60.62	58.591	Yes		
					2	79.61	77.74	Yes	19.227	37.969
					4	80.6	77.418	Yes	37.849	19.203
					8	61.58	58.574	Yes		
UNII-2A	ANT5	5290	58	484+242	1	60.83	57.979	Yes		
					2	80.27	77.313	Yes	19.222	38.289
					4	80.03	77.723	Yes	38.228	19.193
					8	60.65	58.505	Yes		
UNII-2C		5530	106	484+242	1	60.42	58.149	Yes		
					2	79.84	77.708	Yes	19.36	38.233
					4	80.14	77.416	Yes	38.095	19.253
					8	60.71	58.835	Yes		
		5610	122		1	60.73	58.287	Yes		
					2	79.99	77.474	Yes	19.249	38.053
					4	80.79	77.675	Yes	37.982	19.381
					8	61.13	58.576	Yes		
		5690 (Straddle)	138		1	60.86	58.506	Yes		
					2	80.06	78.103	Yes	19.178	38.109
					4	80.52	77.41	Yes	38.268	19.202
					8	60.63	58.211	Yes		

9.3.3. 802.11be EHT160 SISO MODE

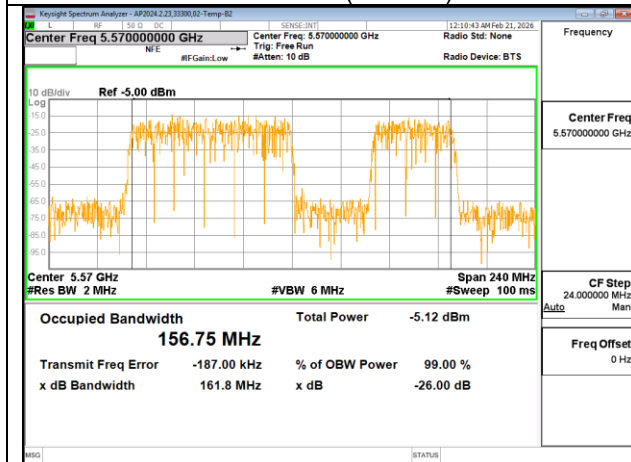
EHT160	SISO	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB?		
						26dB	99% BW	Yes = Pass No = Fail	99% BW (MHz)	
UNII-2A	ANT6	5250 (Straddle)	50	996+484	3	121.6	116.35	Yes		
					12	162	156.69	Yes	38.966	78.165
					48	161	155.43	Yes	78.343	39.065
					192	122.1	116.24	Yes		
				996+484+242	1	141.5	137.99	Yes		
					2	161.3	156.3	Yes	20.266	118
					4	161	157.33	Yes	38.618	98.566
					8	161.6	156.02	Yes	58.945	78.222
					16	161	156.23	Yes	77.909	59.364
					32	160.9	155.29	Yes	98.222	38.854
					64	162.1	156.28	Yes	117.52	20.129
					128	143.2	136.76	Yes		
996+484		3	121.2	116.78	Yes					
		12	161.4	155.98	Yes	38.71	77.859			
		48	161.8	156.75	Yes	77.578	38.745			
		192	121.6	117.35	Yes					
		996+484+242	1	142.2	137.26	Yes				
			2	162.7	157.01	Yes	20.405	117.06		
			4	160.7	156.21	Yes	38.848	98.007		
			8	160.9	156.5	Yes	58.71	77.83		
16			161.4	156.25	Yes	77.862	58.937			
32			161.4	155.7	Yes	98.043	38.646			
64			161.8	156.2	Yes	117.24	20.394			
128			142.4	137.67	Yes					
UNII-2C		5570	114	996+484	3	121.9	117.23	Yes		
					12	161.7	157.29	Yes	39.03	77.794
					48	162.1	157.25	Yes	77.816	39.046
					192	122.4	116.54	Yes		
				996+484+242	1	142.4	136.61	Yes		
					2	161.2	156.49	Yes	20.276	117.85
					4	161.6	155.94	Yes	38.866	98.463
					8	163.9	156.46	Yes	59.166	77.898
					16	161.4	157.43	Yes	78.03	58.497
					32	163.8	156.27	Yes	98.023	38.885
					64	161.8	156	Yes	117.14	20.345
					128	142.4	135.75	Yes		
996+484		3	121.4	117.34	Yes					
		12	161.4	156.73	Yes	38.456	77.411			
		48	161.8	157.41	Yes	78.029	38.411			
		192	121.8	117.05	Yes					
		996+484+242	1	141.8	137.66	Yes				
			2	161	156.77	Yes	20.334	116.83		
			4	165.8	156.75	Yes	38.79	98.73		
			8	160.9	156.2	Yes	59.001	78.375		
16			162.2	156.07	Yes	77.055	58.252			
32			161.8	156.61	Yes	99.049	38.52			
64			161.3	157.07	Yes	117.51	20.28			
128			141.8	137.18	Yes					



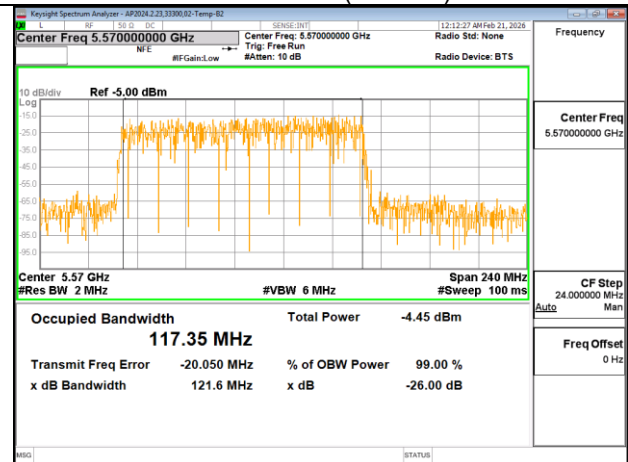
160MHz – 996+484T – Mid Channel –
Puncture Pattern 3 – (UNII-2C) – ANT6



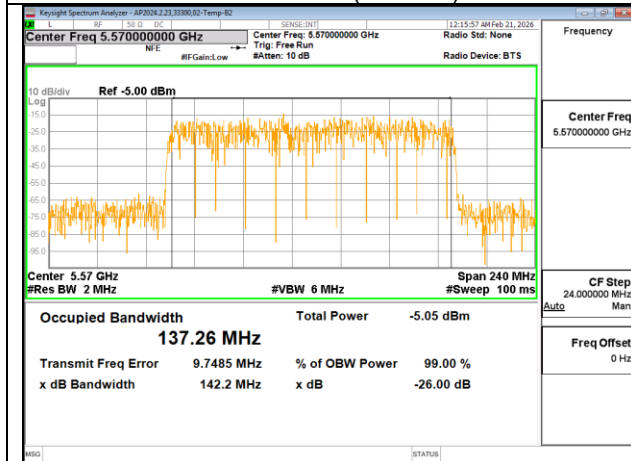
160MHz – 996+484T – Mid Channel –
Puncture Pattern 12 – (UNII-2C) – ANT6



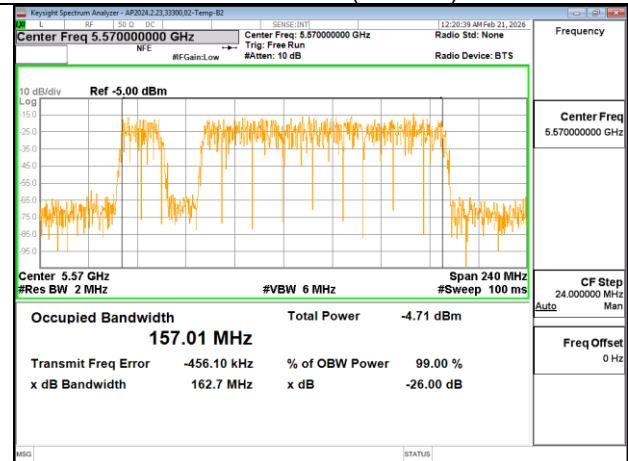
160MHz – 996+484T – Mid Channel –
Puncture Pattern 48 – (UNII-2C) – ANT6



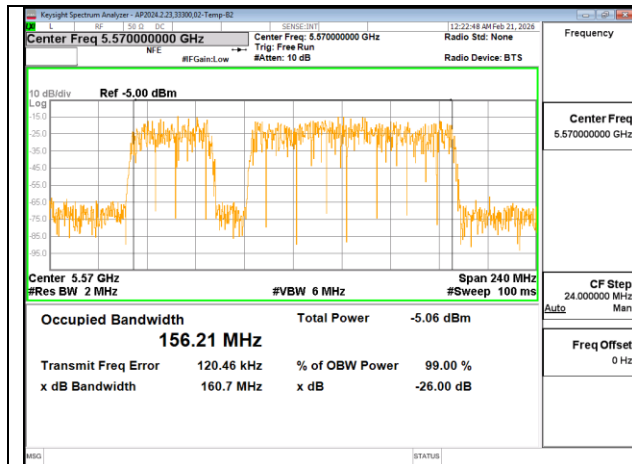
160MHz – 996+484T – Mid Channel –
Puncture Pattern 192 – (UNII-2C) – ANT6



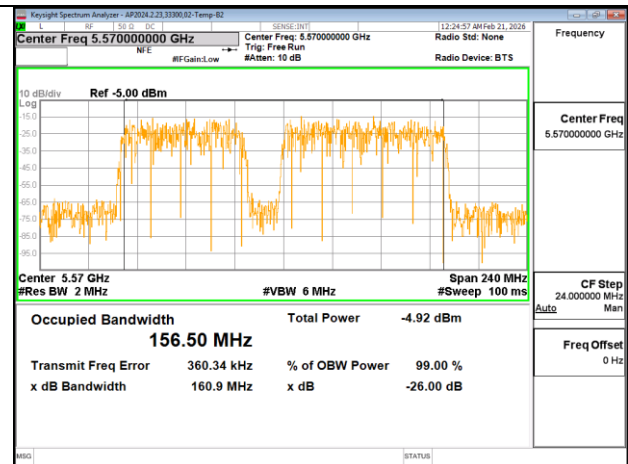
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 1 – (UNII-2C) – ANT6



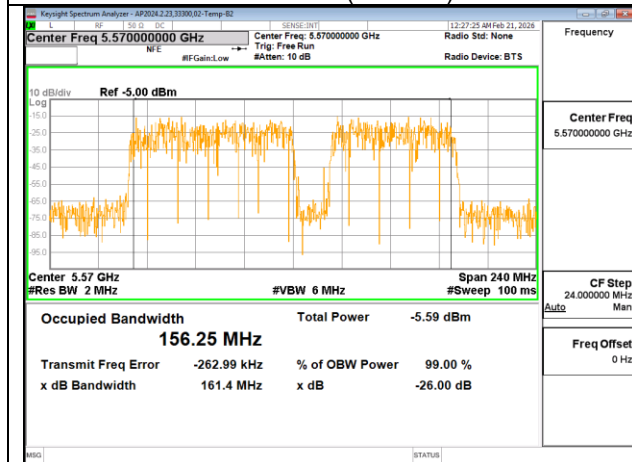
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 2 – (UNII-2C) – ANT6



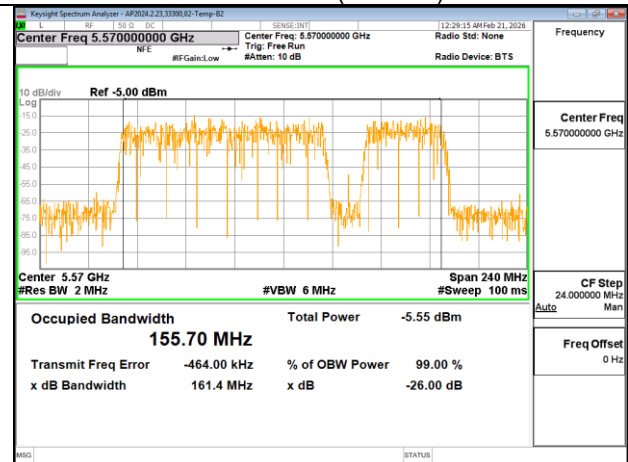
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 4 – (UNII-2C) – ANT6



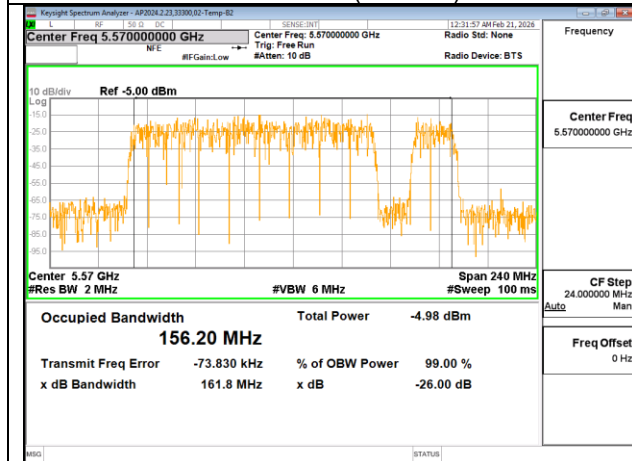
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 8 – (UNII-2C) – ANT6



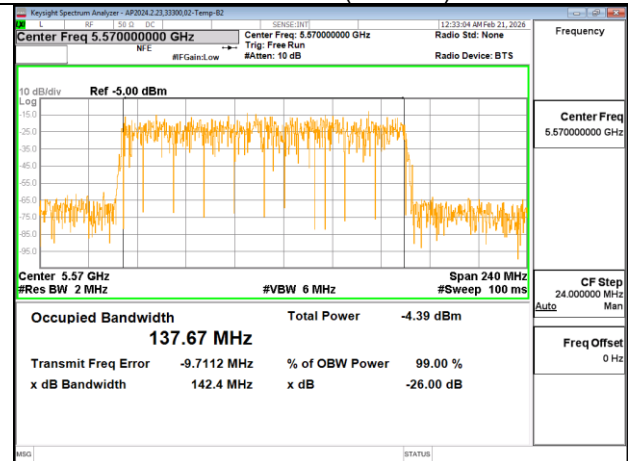
160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 16 – (UNII-2C) – ANT6



160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 32 – (UNII-2C) – ANT6



160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 64 – (UNII-2C) – ANT6



160MHz – 996+484+242T – Mid Channel –
Puncture Pattern 128 – (UNII-2C) – ANT6

9.3.4. 802.11be EHT160 MIMO CDD MODE

EHT160	MIMO (CDD)	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB? Yes = Pass No = Fail		
						26dB	99% BW		99% BW (MHz)	
UNII-2A	ANT6	5250 (Straddle)	50	996+484	3	121.6	116.39	Yes		
					12	161.5	157.14	Yes	38.974	77.656
					48	161.4	156.69	Yes	77.972	38.691
					192	122	117.03	Yes		
				996+484+242	1	141.2	137.57	Yes		
					2	161.1	156.61	Yes	20.234	116.55
					4	161.6	157.39	Yes	38.75	97.359
					8	161.7	156.93	Yes	58.922	78.128
					16	160.6	155.72	Yes	77.7	58.87
					32	161.7	155.43	Yes	97.872	38.786
					64	161.5	156.1	Yes	116.7	20.465
					128	142.3	136.66	Yes		
UNII-2C	5570	114	996+484	3	122.4	117.21	Yes			
				12	161.6	156.62	Yes	38.572	77.721	
				48	161.6	157.54	Yes	77.642	38.86	
				192	121.9	116.68	Yes			
			996+484+242	1	142.9	137.55	Yes			
				2	160.5	156.82	Yes	20.133	117.31	
				4	162.1	155.56	Yes	38.624	97.762	
				8	161.1	156.04	Yes	59.177	77.667	
				16	162.1	156.63	Yes	78.135	59.353	
				32	161.3	156.15	Yes	98.733	39.055	
				64	161.4	156.54	Yes	117.62	20.38	
				128	142.6	136.7	Yes			
UNII-2A	ANT5	5250 (Straddle)	996+484	3	121.2	115.76	Yes			
				12	161.8	156.32	Yes	38.683	78.021	
				48	160.9	156.91	Yes	77.853	38.826	
				192	121.5	116.46	Yes			
			996+484+242	1	142.3	136.71	Yes			
				2	161.8	157.07	Yes	20.233	117.62	
				4	161.7	156.64	Yes	38.994	97.81	
				8	161.8	157.12	Yes	59.076	78.137	
				16	161	156.96	Yes	77.921	58.77	
				32	160.9	157.14	Yes	98.84	38.832	
				64	161.8	157.21	Yes	117.75	20.288	
				128	141.6	137.77	Yes			
UNII-2C	5570	114	996+484	3	121.7	116.78	Yes			
				12	161.6	156.84	Yes	38.548	77.574	
				48	161.5	156.66	Yes	77.765	39.27	
				192	121.8	116.95	Yes			
			996+484+242	1	144.1	136.95	Yes			
				2	160.5	156.57	Yes	20.194	117.31	
				4	160.8	155.68	Yes	38.788	97.19	
				8	161.4	155.94	Yes	58.649	78.16	
				16	161.4	156.94	Yes	77.42	58.902	
				32	160.3	156.56	Yes	98.43	38.746	
				64	163.3	156.01	Yes	117.89	20.239	
				128	141.8	136.91	Yes			

9.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

RSS-247 7.3.4.2

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

RESULTS

For 6dB bandwidth measurements, the 802.11be EHT20 was tested at 26T as a worst-case scenario. For straddle channels, 52T was tested as the worst case as 26T is not supported.

9.4.1. 802.11n/ac SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	Frequency (MHz)	Channel Number	6 dB BW (MHz)	
			ANT6	ANT5
HT20	5720 (Straddle)	144	3.90	3.90
	5745	149	17.68	17.76
	5785	157	17.68	17.68
	5825	165	17.68	17.72
HT40	5710 (Straddle)	142	3.28	3.30
	5755	151	36.56	36.48
	5795	159	36.56	36.56
VHT80	5690 (Straddle)	138	3.26	3.27
	5775	155	76.64	76.64

9.4.2. 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND

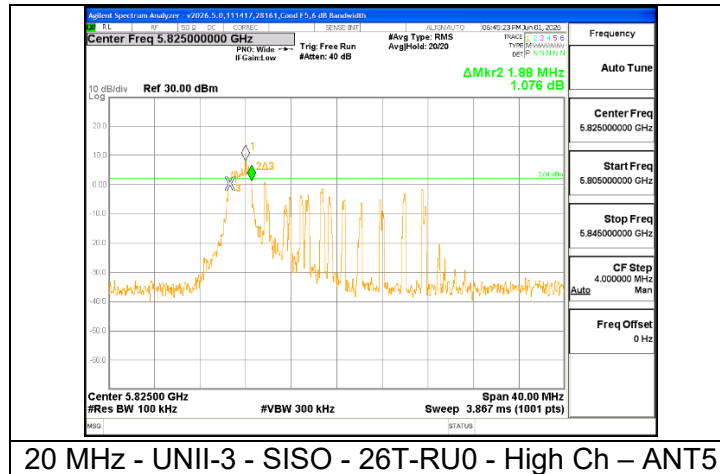
UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	6 dB BW (MHz)	
			ANT6	ANT5
HT20	5720 (Straddle)	144	3.89	3.79
	5745	149	17.64	17.68
	5785	157	17.76	17.76
	5825	165	17.68	17.68
HT40	5710 (Straddle)	142	3.26	3.26
	5755	151	36.64	36.56
	5795	159	36.48	36.56
VHT80	5690 (Straddle)	138	3.29	3.27
	5775	155	76.64	76.64

9.4.3. 802.11be SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	6 dB BW (MHz)	
					ANT6	ANT5
EHT20	5720 (Straddle)	144	SU	—	4.49	4.50
			52T	40	4.02	3.97
	5745	149	SU	—	19.16	19.08
			26T	0	2.08	2.04
				4	2.68	2.64
				8	2.16	2.08
	5785	157	SU	—	19.08	19.08
			26T	0	2.08	2.08
				4	2.64	2.68
				8	2.16	2.08
	5825	165	SU	—	19.08	19.00
			26T	0	2.12	1.88
				4	2.64	2.64
				8	2.16	2.12
EHT40	5710 (Straddle)	142	SU	—	4.03	4.08
	5755	151	SU	—	38.32	38.24
	5795	159	SU	—	38.24	38.32
EHT80	5690 (Straddle)	138	SU	—	4.06	4.07
	5775	155	SU	—	78.40	78.56

9.4.4. 802.11be MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	6 dB BW (MHz)	
					ANT6	ANT5
EHT20	5720 (Straddle)	144	SU	—	4.48	4.53
			52T	40	3.99	4.01
	5745	149	SU	—	19.12	19.16
			26T	0	2.00	2.12
				4	2.72	2.72
				8	2.12	2.08
	5785	157	SU	—	19.12	19.16
			26T	0	2.04	2.08
				4	2.68	2.64
				8	2.04	2.12
	5825	165	SU	—	19.12	19.16
			26T	0	2.08	2.08
				4	2.64	2.76
				8	2.04	2.00
EHT40	5710 (Straddle)	142	SU	—	4.05	4.04
	5755	151	SU	—	38.24	38.32
	5795	159	SU	—	38.24	38.32
EHT80	5690 (Straddle)	138	SU	—	4.07	4.02
	5775	155	SU	—	78.24	78.40

WORST MINIMUM PLOT

9.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is ANSI C63.10 Subclause -12.4.3.2 (Method PM-G).

The measurement method used for power spectral density is KDB 789033 D02, Section F. For all straddle channels, full bandwidth power and PSD/MHz are reported in the 5.6GHz section because the combined 5.6GHz and 5.8GHz power and PSD/MHz already passed the worst-case 5.6GHz power and 5.8 GHz PSD/500kHz limits.

11n HT20 and 11be EHT20 straddle channel 26dB bandwidth= (26dB BW/2)+5

11n HT20 and 11be EHT20 straddle channel 99% bandwidth= (99% BW/2)+5

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

STATE A

Frequency Range (MHz)	ANT6 (dBi)	ANT5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-1.6	-0.8	-1.20	1.80
5250 - 5350 UNII - 2A	-1.4	1.0	-0.10	2.90
5500 - 5700 UNII - 2C	-1.0	0.8	-0.20	2.80
5725 - 5825 UNII 3	-0.7	1.4	-0.50	2.10

STATE B

Frequency Range (MHz)	ANT6 (dBi)	ANT5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-1.0	-0.2	-0.60	2.40
5250 - 5350 UNII - 2A	-0.6	0.7	0.10	3.10
5500 - 5700 UNII - 2C	-0.5	1.1	-0.40	2.50
5725 - 5825 UNII 3	-0.4	1.9	-0.30	2.30

WORST CASE ANT GAIN

Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-1.0	-0.2	-0.60	2.40
5250 - 5350 UNII - 2A	-0.6	1.0	0.10	3.10
5500 - 5700 UNII - 2C	-0.5	1.1	-0.20	2.80
5725 - 5825 UNII 3	-0.4	1.9	-0.30	2.30

OUTPUT POWER CALCULATION:**1Tx**

Total corr'd power = Ant 6

Sample Calculation at 5.2GHz Band (Low Channel SU):

ANT 6 Power = 19.17 dBm (Gated Power)

Total corr'd power = 19.17 dBm

2Tx

Total corr'd power = $10 \cdot \log(10^{(\text{Ant 6}/10)} + 10^{(\text{ANT 5}/10)})$

Sample Calculation at 5.2GHz Band CDD (Low Channel SU):

Ant 6 Power = 17.41 dBm, ANT 5 Power = 17.55 dBm

Total corr'd power = $10 \cdot \log(10^{(17.41/10)} + 10^{(17.55/10)}) = 20.49 \text{ dBm}$

PSD CALCULATION:**1Tx**

Total corr'd PSD = DCCF + Ant 6

Sample Calculation at 5.2GHz Band (Low Channel SU):

Ant 6 PSD = 6.114 dBm/MHz

Total corr'd PSD = 0 + 6.114 = 6.114 dBm/MHz

2Tx

Total corr'd PSD = $(10 \cdot \log(10^{((\text{DCCF} + \text{Ant 6})/10)} + 10^{((\text{DCCF} + \text{ANT 5})/10)}))$

Sample Calculation at 5.2GHz Band CDD (Low Channel SU):

Ant6 PSD = 4.253 dBm/MHz, ANT5 PSD = 4.320 dBm/MHz

Total corr'd PSD = $(10 \cdot \log(10^{((0 + (4.253))/10)} + 10^{((0 + (4.320))/10)}))$
= 7.297 dBm/MHz

RESULTS**9.5.1. 802.11n/ac SISO MODE IN THE UNII-1 BAND**

UNII-1 (SISO)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
ANT6 (dBi)	-1.00			
ANT5 (dBi)	-0.20			

UNII-2A (SISO)	
Straddle Channel	
ANT6 (dBi)	-0.60
ANT5 (dBi)	1.00

UNII-1 (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
HT20	5180	36	--		24.00	24.00	19.61	20.34	19.61	20.34	11.00	11.00	8.584	9.358	8.584	9.358
	5200	40			24.00	24.00	20.51	20.31	20.51	20.31	11.00	11.00	9.524	9.266	9.524	9.266
	5240	48			24.00	24.00	20.55	20.28	20.55	20.28	11.00	11.00	9.597	9.240	9.597	9.240
HT40	5190	38	--		24.00	24.00	17.11	17.89	17.11	17.89	11.00	11.00	4.542	5.106	4.542	5.106
	5230	46			24.00	24.00	20.52	20.31	20.52	20.31	11.00	11.00	6.855	6.776	6.855	6.776
VHT80	5210	42	--		24.00	24.00	17.01	17.89	17.01	17.89	11.00	11.00	1.492	2.571	1.492	2.571
VHT160	5250 (Straddle)	50	--		24.00	24.00	16.41	16.38	16.41	16.38	11.00	11.00	-1.987	-2.220	-1.987	-2.220

9.5.2. 802.11n/ac MIMO CDD MODE IN THE UNII-1 BAND

UNII-1 (MIMO CDD)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
Un- Correlated Gain (dBi)	-0.60			
Correlated Gain (dBi)	2.40			

UNII-2A (MIMO CDD)	
Straddle Channel	
Un- Correlat ed Gain (dBi)	0.10
Correlat ed Gain (dBi)	3.10

UNII-1 (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT5			ANT6	ANT5	
HT20	5180	36	--	24.00	17.41	17.37	20.40	11.00	6.542	6.376	9.470
	5200	40		24.00	18.22	18.18	21.21	11.00	7.371	7.325	10.358
	5240	48		24.00	18.07	18.11	21.10	11.00	7.175	7.281	10.239
HT40	5190	38	--	24.00	16.37	16.41	19.40	11.00	3.382	3.822	6.618
	5230	46		24.00	19.81	19.89	22.86	11.00	5.573	5.963	8.783
VHT80	5210	42	--	24.00	16.05	15.97	19.02	11.00	0.448	0.272	3.371
VHT160	5250 (Straddle)	50	--	24.00	15.42	15.37	18.41	11.00	-3.133	-3.279	-0.195

9.5.3. 802.11be SISO MODE IN THE UNII-1 BAND

UNII-1 (SISO)	20MHz		40MHz		80MHz		160MHz	
	SU	26T	SU	SU	484+242T	SU	996+484+242T	
DCCF (MCS0) (dB)	0	0	0	0	0	0	0	
ANT6 (dBi)	-1.00							
ANT5 (dBi)	-0.20							

UNII-2A (SISO)	
Straddle Channel	
ANT6 (dBi)	-0.60
ANT16 (dBi)	1.00

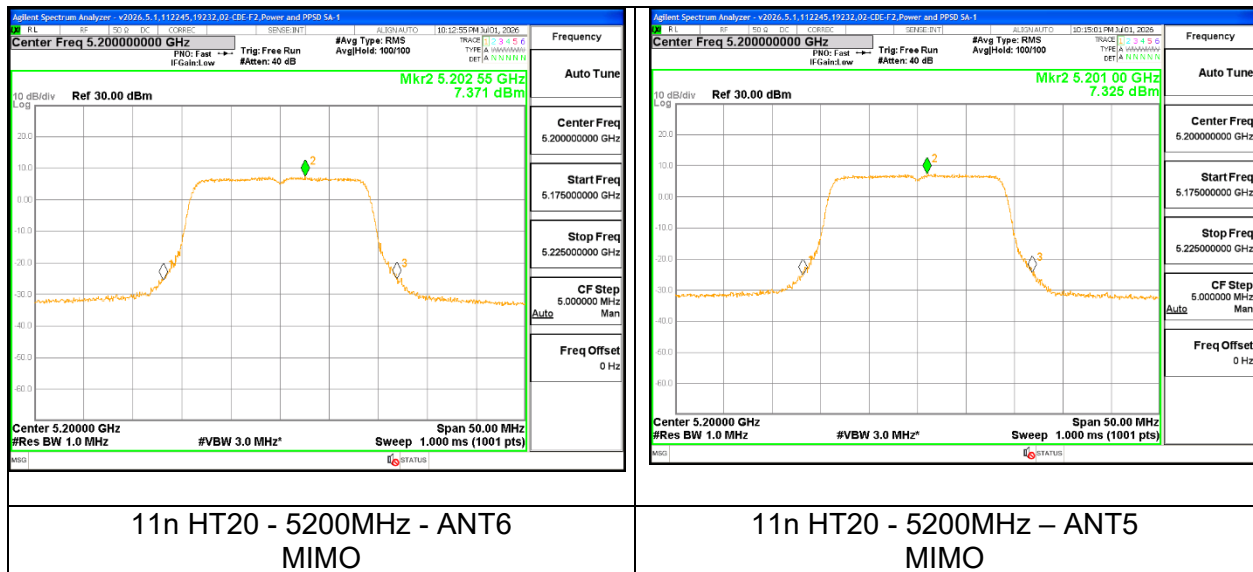
UNII-1 (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
EHT20	5180	36	SU	—	—	—	24.00	24.00	19.17	19.98	19.17	19.98	11.00	11.00	6.114	6.964	6.114	6.964
			0	—			24.00	24.00	12.45	12.32	12.45	12.32	11.00	11.00	8.913	8.582	8.913	8.582
			26T	4			24.00	24.00	12.39	12.28	12.39	12.28	11.00	11.00	7.854	7.625	7.854	7.625
			8	—			24.00	24.00	12.55	12.37	12.55	12.37	11.00	11.00	9.036	8.723	9.036	8.723
	5200	40	SU	—			24.00	24.00	20.48	20.32	20.48	20.32	11.00	11.00	7.544	7.408	7.544	7.408
			0	—			24.00	24.00	12.35	12.23	12.35	12.23	11.00	11.00	8.710	8.242	8.710	8.242
			26T	4			24.00	24.00	12.30	12.18	12.30	12.18	11.00	11.00	7.791	7.181	7.791	7.181
			8	—			24.00	24.00	12.38	12.29	12.38	12.29	11.00	11.00	8.790	8.434	8.790	8.434
	5240	48	SU	—			24.00	24.00	20.55	20.27	20.55	20.27	11.00	11.00	7.701	7.196	7.701	7.196
			0	—			24.00	24.00	12.41	12.27	12.41	12.27	11.00	11.00	8.879	8.258	8.879	8.258
			26T	4			24.00	24.00	12.26	12.21	12.26	12.21	11.00	11.00	7.542	7.303	7.542	7.303
			8	—			24.00	24.00	12.42	12.32	12.42	12.32	11.00	11.00	9.031	8.567	9.031	8.567
EHT40	5190	38	SU	—			24.00	24.00	16.46	17.37	16.46	17.37	11.00	11.00	2.635	3.739	2.635	3.739
	5230	46	—	—			24.00	24.00	20.42	20.21	20.42	20.21	11.00	11.00	6.604	6.425	6.604	6.425
EHT80	5210	42	SU	—			24.00	24.00	16.34	16.80	16.34	16.80	11.00	11.00	-1.035	-0.655	-1.035	-0.655
			91	—			24.00	24.00	15.93	16.42	15.93	16.42	11.00	11.00	-0.106	0.396	-0.106	0.396
			92	—			24.00	24.00	15.85	16.40	15.85	16.40	11.00	11.00	-0.440	0.286	-0.440	0.286
			93	—			24.00	24.00	15.77	16.36	15.77	16.36	11.00	11.00	-0.712	-0.387	-0.712	-0.387
EHT160	5250 (Straddle)	50	SU	—			24.00	24.00	16.27	16.89	16.27	16.89	11.00	11.00	-3.748	-3.272	-3.748	-3.272
			97	—			24.00	24.00	14.87	15.42	14.87	15.42	11.00	11.00	-5.227	-4.942	-5.227	-4.942
			S98	—			24.00	24.00	14.80	15.40	14.80	15.40	11.00	11.00	-5.345	-4.707	-5.345	-4.707
			S99	—			24.00	24.00	14.92	15.36	14.92	15.36	11.00	11.00	-5.029	-4.612	-5.029	-4.612

9.5.4. 802.11be MIMO CDD MODE IN THE UNII-1 BAND

UNII-1 (MIMO CDD)	20MHz		40MHz	80MHz		160MHz	
	SU	26T	SU	SU	484+242T	SU	996+484+ 242T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
Un- Correlated Gain (dBi)	-0.60						
Correlated Gain (dBi)	2.40						

UNII-2A (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	0.10
Correlated Gain (dBi)	3.10

UNII-1 (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT5			ANT6	ANT5	
EHT20	5180	36	SU	—	---	24.00	17.41	17.55	20.49	11.00	4.253	4.320	7.297
				0		24.00	9.39	9.43	12.42	11.00	5.704	5.870	8.798
			26T	4		24.00	9.26	9.29	12.29	11.00	4.223	4.544	7.397
				8		24.00	9.33	9.36	12.36	11.00	5.538	5.674	8.617
	5200	40	SU	—		24.00	18.34	18.23	21.30	11.00	5.334	5.321	8.338
				0		24.00	9.12	9.15	12.15	11.00	5.231	5.466	8.360
			26T	4		24.00	9.06	9.09	12.09	11.00	3.932	4.133	7.044
				8		24.00	9.14	9.13	12.15	11.00	5.444	5.391	8.428
	5220	44	SU	—		24.00	18.43	18.48	21.47	11.00	5.366	5.484	8.436
				0		24.00	9.16	9.20	12.19	11.00	4.907	4.981	7.954
			26T	4		24.00	9.24	9.18	12.22	11.00	4.199	3.921	7.073
				8		24.00	9.22	9.26	12.25	11.00	5.200	5.434	8.329
	5240	48	SU	—		24.00	18.29	18.17	21.24	11.00	5.330	5.141	8.247
				0		24.00	9.11	9.16	12.15	11.00	5.121	5.479	8.314
			26T	4		24.00	9.07	9.08	12.09	11.00	3.936	4.007	6.982
				8		24.00	9.10	9.17	12.15	11.00	5.104	5.534	8.335
EHT40	5190	38	SU	—	---	24.00	16.42	16.33	19.39	11.00	2.569	2.564	5.577
	5230	46		—		24.00	19.88	19.80	22.85	11.00	5.326	5.179	8.263
EHT80	5210	42	484+242T	SU	---	24.00	15.97	15.78	18.89	11.00	-0.782	-1.075	2.084
				91		24.00	14.89	14.87	17.89	11.00	-1.143	-1.175	1.851
				92		24.00	14.85	14.90	17.89	11.00	-1.314	-0.949	1.883
				93		24.00	14.80	14.82	17.82	11.00	-1.809	-1.414	1.403
EHT160	5250 (Straddle)	50	996+484+ 242T	SU	---	24.00	14.78	14.82	17.81	11.00	-5.270	-5.179	-2.214
				97		24.00	13.30	13.33	16.33	11.00	-6.449	-6.429	-3.429
				S98		24.00	13.27	13.35	16.32	11.00	-6.556	-6.303	-3.417
				S99		24.00	13.42	13.39	16.42	11.00	-6.106	-6.254	-3.169

Worst-Case PSD Plot :

9.5.5. 802.11n/ac SISO MODE IN THE UNII-2A BAND

UNII-2A (SISO)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
ANT6 (dBi)	-0.60			
ANT5 (dBi)	1.00			

UNII-1 (SISO)	
Straddle Channel	
ANT6 (dBi)	-1.00
ANT5 (dBi)	-0.20

UNII-2A (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
HT20	5260	52	22.81	23.46	24.00	24.00	20.51	20.23	20.51	20.23	11.00	11.00	9.789	9.360	9.789	9.360
	5300	60	23.27	23.64	24.00	24.00	20.45	20.27	20.45	20.27	11.00	11.00	9.488	9.479	9.488	9.479
	5320	64	23.32	23.64	24.00	24.00	19.67	20.14	19.67	20.14	11.00	11.00	8.808	9.503	8.808	9.503
HT40	5270	54	44.81	45.54	24.00	24.00	20.51	20.29	20.51	20.29	11.00	11.00	6.911	6.777	6.911	6.777
	5310	62	45.39	45.75	24.00	24.00	16.42	17.38	16.42	17.38	11.00	11.00	3.745	4.417	3.745	4.417
VHT80	5290	58	81.59	82.10	24.00	24.00	16.89	17.41	16.89	17.41	11.00	11.00	0.933	1.573	0.933	1.573
VHT160	5250 (Straddle)	50	163.40	165.70	24.00	24.00	16.41	16.38	16.41	16.38	11.00	11.00	-1.987	-2.220	-1.987	-2.220

9.5.6. 802.11n/ac MIMO CDD MODE IN THE UNII-2A BAND

UNII-2A (MIMO CDD)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
Un- Correlated Gain (dBi)	0.10			
Correlated Gain (dBi)	3.10			

UNII-1 (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	-0.60
Correlated Gain (dBi)	2.40

UNII-2A (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT5			ANT6	ANT5	
HT20	5260	52	23.18	24.00	18.30	18.37	21.35	11.00	6.927	7.119	10.034
	5300	60	22.79	24.00	18.24	18.21	21.24	11.00	6.498	6.487	9.503
	5320	64	23.64	24.00	17.49	17.45	20.48	11.00	5.856	5.719	8.798
HT40	5270	54	43.48	24.00	19.85	19.89	22.88	11.00	6.062	6.252	9.168
	5310	62	44.47	24.00	16.38	16.41	19.41	11.00	3.408	3.438	6.433
VHT80	5290	58	81.46	24.00	15.91	15.87	18.90	11.00	0.230	0.181	3.216
VHT160	5250 (Straddle)	50	163.60	24.00	15.42	15.37	18.41	11.00	-3.133	-3.279	-0.195

9.5.7. 802.11be SISO MODE IN THE UNII-2A BAND

UNII-2A (SISO)	20MHz		40MHz	80MHz		160MHz	
	SU	52+26T	SU	SU	484+242T	SU	996+484+242T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
ANT6 (dBi)	-0.60						
ANT5 (dBi)	1.00						

UNII-1 (SISO)	
Straddle Channel	
ANT6 (dBi)	-1.00
ANT5 (dBi)	-0.20

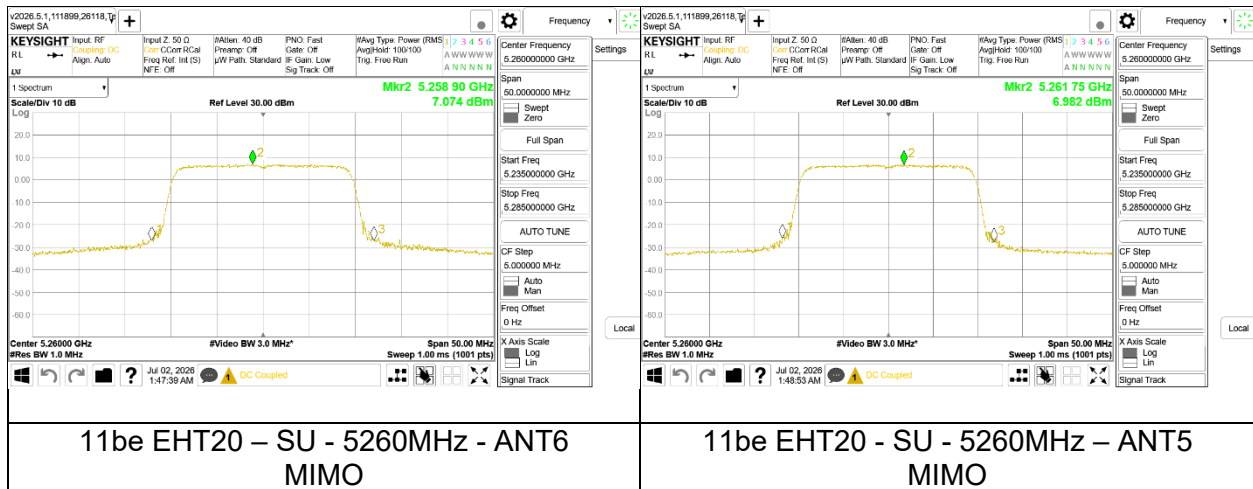
UNII-2A (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
EHT20	5260	52	52+26T	SU	—	23.32	23.59	24.00	20.55	20.28	20.55	20.28	11.00	11.00	9.216	8.912	9.216	8.912
				70	20.30	20.05	24.00	24.00	16.57	16.67	16.57	16.67	11.00	11.00	9.316	9.679	9.316	9.679
				71	19.42	19.38	23.88	23.87	16.59	16.73	16.59	16.73	11.00	11.00	9.338	9.767	9.338	9.767
				72	19.58	20.11	23.92	24.00	16.66	16.69	16.66	16.69	11.00	11.00	9.505	9.749	9.505	9.749
	5300	60	52+26T	SU	—	22.91	23.70	24.00	20.49	20.35	20.49	20.35	11.00	11.00	9.116	9.062	9.116	9.062
				70	19.92	20.34	23.99	24.00	16.68	16.79	16.68	16.79	11.00	11.00	9.697	9.853	9.697	9.853
				71	19.27	19.11	23.85	23.81	16.73	16.76	16.73	16.76	11.00	11.00	9.700	9.842	9.700	9.842
				72	19.50	19.47	23.90	23.89	16.64	16.81	16.64	16.81	11.00	11.00	9.491	9.916	9.491	9.916
	5320	64	52+26T	SU	—	24.17	23.12	24.00	19.17	19.51	19.17	19.51	11.00	11.00	7.993	8.067	7.993	8.067
				70	20.10	20.23	24.00	24.00	16.17	16.19	16.17	16.19	11.00	11.00	9.027	9.220	9.027	9.220
				71	19.10	19.27	23.81	23.85	16.26	16.32	16.26	16.32	11.00	11.00	9.094	9.605	9.094	9.605
				72	19.81	19.71	23.97	23.95	16.10	16.26	16.10	16.26	11.00	11.00	8.993	9.327	8.993	9.327
EHT40	5270	54	SU	—	44.19	44.12	24.00	24.00	20.40	20.19	20.40	20.19	11.00	11.00	6.286	6.134	6.286	6.134
	5310	62		—	44.41	45.02	24.00	24.00	16.01	16.67	16.01	16.67	11.00	11.00	2.032	2.370	2.032	2.370
EHT80	5290	58	484+242T	SU	—	82.66	82.22	24.00	16.34	16.90	16.34	16.90	11.00	11.00	-1.109	-0.589	-1.109	-0.589
				91	82.41	82.90	24.00	24.00	15.83	16.36	15.83	16.36	11.00	11.00	-0.379	-0.202	-0.379	-0.202
				92	82.54	82.31	24.00	24.00	15.95	16.40	15.95	16.40	11.00	11.00	-0.244	-0.097	-0.244	-0.097
				93	62.99	63.18	24.00	24.00	15.79	16.42	15.79	16.42	11.00	11.00	-0.530	-0.051	-0.530	-0.051
EHT160	5250 (Straddle)	50	996+484+242T	SU	—	165.10	165.00	24.00	16.27	16.89	16.27	16.89	11.00	11.00	-3.748	-3.272	-3.748	-3.272
				97	169.90	169.09	24.00	24.00	14.87	15.42	14.87	15.42	11.00	11.00	-5.227	-4.942	-5.227	-4.942
				S98	169.66	170.20	24.00	24.00	14.80	15.40	14.80	15.40	11.00	11.00	-5.345	-4.707	-5.345	-4.707
				S99	144.71	144.46	24.00	24.00	14.92	15.36	14.92	15.36	11.00	11.00	-5.029	-4.612	-5.029	-4.612

9.5.8. 802.11be MIMO CDD MODE IN THE UNII-2A BAND

UNII-2A (MIMO CDD)	20MHz		40MHz	80MHz		160MHz	
	SU	52+26T	SU	SU	484+242T	SU	996+484+242T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
Un- Correlated Gain (dBi)	0.10						
Correlated Gain (dBi)	3.10						

UNII-1 (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	-0.60
Correlated Gain (dBi)	2.40

UNII-2A (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT5			ANT6	ANT5	
EHT20	5260	52	SU	—	23.22	24.00	18.52	18.44	21.49	11.00	7.074	6.982	10.039
			52+26T	70	19.11	23.81	13.65	13.66	16.67	11.00	6.708	6.726	9.727
				71	18.59	23.69	13.62	13.58	16.61	11.00	6.447	6.346	9.407
				72	19.40	23.88	13.59	13.56	16.59	11.00	6.387	6.307	9.357
	5300	60	SU	—	23.10	24.00	18.45	18.31	21.39	11.00	6.950	6.928	9.949
			52+26T	70	19.53	23.91	13.63	13.67	16.66	11.00	6.481	6.792	9.650
				71	18.61	23.70	13.60	13.64	16.63	11.00	6.389	6.670	9.542
				72	19.53	23.91	13.57	13.61	16.60	11.00	6.320	6.444	9.393
	5320	64	SU	—	22.88	24.00	17.55	17.37	20.47	11.00	6.108	5.867	8.999
			52+26T	70	19.80	23.97	13.07	13.19	16.14	11.00	5.819	6.194	9.021
				71	18.48	23.67	13.15	13.14	16.16	11.00	5.989	5.886	8.948
				72	19.30	23.86	13.10	13.22	16.17	11.00	5.865	6.255	9.075
EHT40	5270	54	SU	—	44.82	24.00	19.92	19.83	22.89	11.00	6.647	6.550	9.609
	5310	62		—	42.99	24.00	15.77	15.91	18.85	11.00	1.558	1.648	4.614
EHT80	5290	58	SU	—	81.77	24.00	14.87	14.94	17.92	11.00	-2.539	-2.378	0.553
			484+242T	91	82.23	24.00	14.33	14.40	17.38	11.00	-2.035	-1.650	1.172
				92	82.19	24.00	14.28	14.30	17.30	11.00	-2.093	-2.036	0.946
				93	63.08	24.00	14.41	14.35	17.39	11.00	-1.604	-1.850	1.285
EHT160	5250 (Straddle)	50	SU	—	164.30	24.00	14.78	14.82	17.81	11.00	-5.270	-5.179	-2.214
			996+484+242T	97	163.12	24.00	13.30	13.33	16.33	11.00	-6.449	-6.429	-3.429
				S98	168.25	24.00	13.27	13.35	16.32	11.00	-6.556	-6.303	-3.417
				S99	144.26	24.00	13.42	13.39	16.42	11.00	-6.106	-6.254	-3.169

Worst-Case PSD Plot :

9.5.9. 802.11n/ac SISO MODE IN THE UNII-2C BAND

UNII-2C (SISO)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
ANT6 (dBi)	-0.50			
ANT5 (dBi)	1.10			

UNII-2C (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
HT20	5500	100	23.94	20.72	24.00	24.00	17.90	17.92	17.90	17.92	11.00	11.00	5.750	5.952	5.750	5.952
	5580	116	23.59	22.43	24.00	24.00	20.49	20.38	20.49	20.38	11.00	11.00	8.413	8.150	8.413	8.150
	5700	140	23.08	20.91	24.00	24.00	16.92	16.93	16.92	16.93	11.00	11.00	4.499	4.689	4.499	4.689
	5720 (Straddle)	144	16.59	16.74	24.00	24.00	20.51	20.42	20.51	20.42	11.00	11.00	8.442	8.214	8.442	8.214
HT40	5510	102	46.05	42.17	24.00	24.00	15.60	16.08	15.60	16.08	11.00	11.00	1.871	2.468	1.871	2.468
	5550	110	45.27	44.19	24.00	24.00	20.46	20.21	20.46	20.21	11.00	11.00	6.267	5.946	6.267	5.946
	5670	134	44.79	43.40	24.00	24.00	19.32	19.34	19.32	19.34	11.00	11.00	5.618	5.674	5.618	5.674
	5710 (Straddle)	142	28.05	27.32	24.00	24.00	20.50	20.28	20.50	20.28	11.00	11.00	6.481	6.035	6.481	6.035
VHT80	5530	106	81.88	80.30	24.00	24.00	14.86	15.38	14.86	15.38	11.00	11.00	-2.838	-2.445	-2.838	-2.445
	5610	122	81.73	81.27	24.00	24.00	20.51	20.32	20.51	20.32	11.00	11.00	2.876	2.695	2.876	2.695
	5690 (Straddle)	138	81.52	81.63	24.00	24.00	20.48	20.29	20.48	20.29	11.00	11.00	2.794	2.562	2.794	2.562
VHT160	5570	114	45.76	45.82	24.00	24.00	14.88	16.09	14.88	16.09	11.00	11.00	-6.200	-4.562	-6.200	-4.562

9.5.10. 802.11n/ac MIMO CDD MODE IN THE UNII-2C BAND

UNII-2C (MIMO CDD)	20MHz	40MHz	80MHz	160MHz
DCCF (MCS0) (dB)	0	0	0	0
Un- Correlated Gain (dBi)	-0.20			
Correlated Gain (dBi)	2.80			

UNII-2C (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT5			ANT6	ANT5	
HT20	5500	100	20.55	24.00	16.95	16.90	19.94	11.00	6.057	5.917	8.998
	5580	116	22.02	24.00	18.22	18.23	21.24	11.00	7.234	7.243	10.249
	5700	140	20.55	24.00	15.89	15.87	18.89	11.00	5.358	5.117	8.249
	5720 (Straddle)	144	15.96	23.03	18.24	18.21	21.24	11.00	7.272	7.027	10.162
HT40	5510	102	40.53	24.00	15.09	15.06	18.09	11.00	1.137	1.079	4.118
	5550	110	43.39	24.00	19.87	19.84	22.87	11.00	4.977	4.939	7.968
	5670	134	42.18	24.00	18.04	18.10	21.08	11.00	3.755	4.124	6.954
	5710 (Straddle)	142	25.98	24.00	19.86	19.89	22.89	11.00	4.973	5.182	8.089
VHT80	5530	106	80.05	24.00	14.38	14.35	17.38	11.00	-2.353	-2.480	0.594
	5610	122	81.26	24.00	19.86	19.84	22.86	11.00	1.757	1.732	4.755
	5690 (Straddle)	138	45.79	24.00	19.88	19.89	22.90	11.00	1.765	1.765	4.775
VHT160	5570	114	163.40	24.00	14.57	14.60	17.60	11.00	-4.847	-4.594	-1.708

9.5.11. 802.11be SISO MODE IN THE UNII-2C BAND

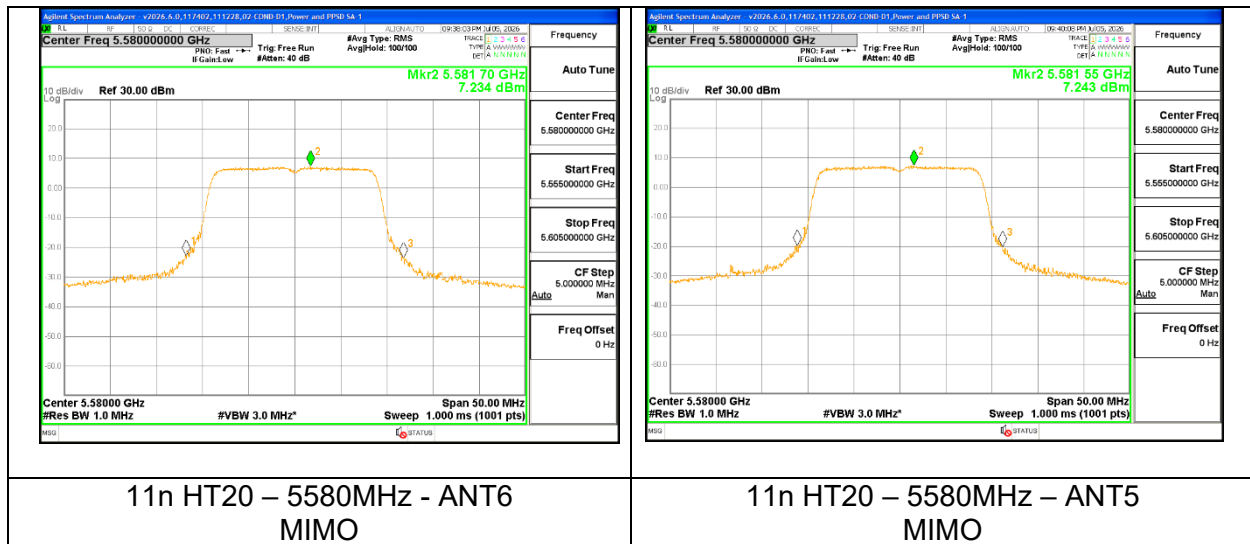
UNII-2C (SISO)	20MHz		40MHz	80MHz		160MHz	
	SU	52+26T	SU	SU	484+242T	SU	996+484+ 242T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
ANT6 (dBi)	-0.50						
ANT5 (dBi)	1.10						

UNII-2C (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD			
					ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
EHT20	5500	100	SU	—	23.70	21.18	24.00	24.00	17.46	17.27	17.46	17.27	11.00	11.00	4.221	4.098	4.221	4.098		
				70	19.48	20.19	23.90	24.00	16.22	16.44	16.22	16.44	11.00	11.00	7.482	7.428	7.482	7.428		
			52+26T	71	19.36	19.38	23.87	23.87	16.09	16.51	16.09	16.51	11.00	11.00	7.415	7.608	7.415	7.608		
				72	19.64	19.50	23.93	23.90	16.18	16.39	16.18	16.39	11.00	11.00	7.455	7.417	7.455	7.417		
	5580	116	SU	—	23.00	22.45	24.00	24.00	20.45	20.25	20.45	20.25	11.00	11.00	7.458	7.008	7.458	7.008		
				70	20.00	20.56	24.00	24.00	16.63	16.85	16.63	16.85	11.00	11.00	8.048	8.627	8.048	8.627		
			52+26T	71	19.42	19.36	23.88	23.87	16.59	16.81	16.59	16.81	11.00	11.00	7.995	8.540	7.995	8.540		
				72	19.53	19.79	23.91	23.96	16.57	16.93	16.57	16.93	11.00	11.00	7.976	8.662	7.976	8.662		
	5700	140	SU	—	23.03	21.30	24.00	24.00	15.96	15.32	15.96	15.32	11.00	11.00	2.970	2.366	2.970	2.366		
				70	20.06	20.46	24.00	24.00	15.44	14.81	15.44	14.81	11.00	11.00	7.114	6.043	7.114	6.043		
			52+26T	71	19.18	19.26	23.83	23.85	15.34	14.88	15.34	14.88	11.00	11.00	7.095	6.285	7.095	6.285		
				72	19.79	20.09	23.96	24.00	15.39	14.93	15.39	14.93	11.00	11.00	7.107	6.523	7.107	6.523		
	EHT40	5720 (Straddle)	144	SU	—	16.67	15.94	23.22	23.02	20.46	20.26	20.46	20.26	11.00	11.00	7.607	7.462	7.607	7.462	
					70	15.11	15.04	22.79	22.77	16.78	16.73	16.78	16.73	11.00	11.00	8.158	7.971	8.158	7.971	
				52+26T	71	14.68	14.68	22.67	22.67	16.70	16.65	16.70	16.65	11.00	11.00	8.270	8.171	8.270	8.171	
					72	14.92	14.81	22.74	22.70	16.72	16.57	16.72	16.57	11.00	11.00	8.678	8.129	8.678	8.129	
5510		102	SU	—	45.71	44.55	24.00	24.00	15.05	15.55	15.05	15.55	11.00	11.00	-1.804	-1.331	-1.804	-1.331		
5550		110		—	44.96	43.44	24.00	24.00	20.44	20.27	20.44	20.27	11.00	11.00	3.501	3.329	3.501	3.329		
5670		134		—	44.74	43.84	24.00	24.00	18.80	19.37	18.80	19.37	11.00	11.00	1.895	2.584	1.895	2.584		
5710 (Straddle)		142		—	27.42	26.83	24.00	24.00	20.47	20.24	20.47	20.24	11.00	11.00	3.618	3.440	3.618	3.440		
EHT80		5530	106	484+242T	SU	—	82.29	81.47	24.00	24.00	14.57	15.29	14.57	15.29	11.00	11.00	-1.429	-0.587	-1.429	-0.587
					91	82.46	82.29	24.00	24.00	13.86	14.45	13.86	14.45	11.00	11.00	-2.938	-2.115	-2.938	-2.115	
					92	82.21	82.10	24.00	24.00	13.88	14.30	13.88	14.30	11.00	11.00	-2.860	-2.346	-2.860	-2.346	
					93	63.50	63.07	24.00	24.00	13.92	14.37	13.92	14.37	11.00	11.00	-2.588	-2.315	-2.588	-2.315	
	5610	122	484+242T	SU	—	82.41	81.83	24.00	24.00	20.55	20.33	20.55	20.33	11.00	11.00	3.141	2.611	3.141	2.611	
				91	82.31	82.06	24.00	24.00	20.43	20.20	20.43	20.20	11.00	11.00	4.521	3.935	4.521	3.935		
				92	82.34	82.72	24.00	24.00	20.42	20.23	20.42	20.23	11.00	11.00	4.468	4.237	4.468	4.237		
				93	62.95	63.35	24.00	24.00	20.39	20.19	20.39	20.19	11.00	11.00	4.236	3.822	4.236	3.822		
	5690 (Straddle)	138	484+242T	SU	—	46.34	46.11	24.00	24.00	20.37	20.17	20.37	20.17	11.00	11.00	3.246	2.827	3.246	2.827	
				91	46.26	46.28	24.00	24.00	20.41	20.22	20.41	20.22	11.00	11.00	4.401	4.058	4.401	4.058		
				92	46.09	46.30	24.00	24.00	20.40	20.21	20.40	20.21	11.00	11.00	4.334	3.987	4.334	3.987		
				93	36.58	36.73	24.00	24.00	20.38	20.18	20.38	20.18	11.00	11.00	4.057	3.809	4.057	3.809		
EHT160	5570	114	996+484+ 242T	SU	—	163.70	164.10	24.00	24.00	15.27	15.95	15.27	15.95	11.00	11.00	-5.300	-5.218	-5.300	-5.218	
				97	168.28	169.24	24.00	24.00	13.15	13.76	13.15	13.76	11.00	11.00	-7.169	-6.615	-7.169	-6.615		
				S98	178.46	169.04	24.00	24.00	13.03	13.84	13.03	13.84	11.00	11.00	-7.537	-6.208	-7.537	-6.208		
				S99	144.69	144.87	24.00	24.00	12.97	13.80	12.97	13.80	11.00	11.00	-7.685	-6.256	-7.685	-6.256		

9.5.12. 802.11be MIMO CDD MODE IN THE UNII-2C BAND

UNII-2C (MIMO CDD)	20MHz		40MHz	80MHz		160MHz	
	SU	52+26T	SU	SU	484+242T	SU	996+484+242T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0
Un- Correlated Gain (dBi)	-0.20						
Correlated Gain (dBi)	2.80						

UNII-2C (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT5			ANT6	ANT5	
EHT20	5500	100	SU	—	20.87	24.00	16.79	16.89	19.85	11.00	5.671	5.820	8.756
			52+26T	70	19.23	23.84	13.07	13.13	16.11	11.00	5.417	5.507	8.473
				71	18.64	23.70	13.22	13.16	16.20	11.00	5.686	5.554	8.631
				72	18.91	23.77	13.19	13.10	16.16	11.00	5.662	5.423	8.554
	5580	116	SU	—	22.15	24.00	18.15	18.17	21.17	11.00	6.688	6.840	9.775
			52+26T	70	19.16	23.82	13.55	13.49	16.53	11.00	6.393	6.111	9.265
				71	18.48	23.67	13.51	13.48	16.51	11.00	6.268	6.090	9.190
				72	18.85	23.75	13.57	13.51	16.55	11.00	6.568	6.268	9.431
	5700	140	SU	—	21.31	24.00	15.42	15.32	18.38	11.00	4.116	4.097	7.117
			52+26T	70	19.44	23.89	13.06	13.03	16.06	11.00	5.328	5.035	8.194
				71	18.55	23.68	13.05	13.04	16.06	11.00	5.214	5.086	8.161
				72	18.93	23.77	13.07	13.02	16.06	11.00	5.338	4.960	8.163
	5720 (Straddle)	144	SU	—	16.44	23.16	18.22	18.08	21.16	11.00	6.995	6.680	9.851
			52+26T	70	14.63	22.65	13.46	13.54	16.51	11.00	6.007	6.320	9.177
				71	14.33	22.56	13.50	13.47	16.50	11.00	6.252	6.035	9.155
				72	14.56	22.63	13.56	13.53	16.56	11.00	6.534	6.274	9.416
EHT40	5510	102	SU	—	44.08	24.00	14.48	14.67	17.59	11.00	-0.565	-0.514	2.471
	5550	110		—	43.83	24.00	19.92	19.95	22.95	11.00	4.358	4.710	7.548
	5670	134		—	43.18	24.00	17.49	17.62	20.57	11.00	2.819	3.079	5.961
	5710 (Straddle)	142		—	26.71	24.00	19.94	19.93	22.95	11.00	4.516	4.486	7.511
EHT80	5530	106	SU	—	81.42	24.00	14.06	14.12	17.10	11.00	-3.754	-3.603	-0.668
			484+242T	91	82.24	24.00	13.01	12.99	16.01	11.00	-3.619	-3.865	-0.730
				92	82.55	24.00	12.98	12.97	15.99	11.00	-3.961	-4.157	-1.048
				93	63.07	24.00	13.00	12.96	15.99	11.00	-3.827	-4.206	-1.002
	5610	122	SU	—	81.70	24.00	19.77	19.76	22.78	11.00	1.330	1.275	4.313
			484+242T	91	82.21	24.00	19.80	19.84	22.83	11.00	2.264	2.480	5.384
				92	82.21	24.00	19.83	19.81	22.83	11.00	2.417	2.292	5.365
				93	63.35	24.00	19.82	19.85	22.85	11.00	2.329	2.534	5.443
	5690 (Straddle)	138	SU	—	46.18	24.00	19.78	19.79	22.80	11.00	1.589	1.633	4.621
			484+242T	91	46.03	24.00	19.86	19.91	22.90	11.00	2.663	2.865	5.775
				92	46.04	24.00	19.87	19.90	22.90	11.00	2.699	2.762	5.741
				93	36.58	24.00	19.89	19.88	22.90	11.00	2.737	2.718	5.738
EHT160	5570	114	SU	—	163.40	24.00	14.35	14.38	17.38	11.00	-6.385	-5.995	-3.175
			996+484+242T	97	167.37	24.00	12.43	12.33	15.39	11.00	-8.174	-8.381	-5.266
				S98	170.77	24.00	12.27	12.30	15.30	11.00	-8.445	-8.428	-5.426
				S99	144.78	24.00	12.39	12.36	15.39	11.00	-8.322	-8.371	-5.336

Worst-Case PSD Plot :

9.5.13. 802.11n/ac SISO MODE IN THE UNII-3 BAND

UNII-3 (SISO)	20MHz	40MHz	80MHz
DCCF (MCS0) (dB)	0	0	0
ANT6 (dBi)	-0.40		
ANT5 (dBi)	1.90		

UNII-3 (SISO)	Freq (MHz)	Ch. #	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
			ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
HT20	5745	149	—	—	30.00	30.00	20.48	20.25	20.48	20.25	30.00	30.00	5.938	5.672	5.938	5.672
	5785	157			30.00	30.00	20.51	20.28	20.51	20.28	30.00	30.00	5.980	5.694	5.980	5.694
	5825	165			30.00	30.00	20.45	20.31	20.45	20.31	30.00	30.00	5.897	5.698	5.897	5.698
HT40	5755	151	—	—	30.00	30.00	20.47	20.25	20.47	20.25	30.00	30.00	2.866	2.499	2.866	2.499
	5795	159			30.00	30.00	20.45	20.29	20.45	20.29	30.00	30.00	2.861	2.683	2.861	2.683
VHT80	5775	155	—	—	30.00	30.00	20.49	20.28	20.49	20.28	30.00	30.00	-0.252	-0.310	-0.252	-0.310

9.5.14. 802.11n/ac MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	20MHz	40MHz	80MHz
DCCF (MCS0) (dB)	0	0	0
Un- Correlated Gain (dBi)	-0.30		
Correlated Gain (dBi)	2.30		

UNII-3 (MIMO CDD)	Freq (MHz)	Ch. #	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
					ANT6	ANT5			ANT6	ANT5	
HT20	5745	149	--	30.00	20.25	20.20	23.24	30.00	5.883	5.732	8.818
	5785	157		30.00	20.21	20.27	23.25	30.00	5.735	5.955	8.857
	5825	165		30.00	20.18	20.29	23.25	30.00	5.574	5.990	8.797
HT40	5755	151	--	30.00	20.24	20.26	23.26	30.00	2.509	2.733	5.633
	5795	159		30.00	20.31	20.28	23.31	30.00	2.840	2.774	5.817
VHT80	5775	155	--	30.00	20.31	20.29	23.31	30.00	-0.319	-0.397	2.652

9.5.15. 802.11be SISO MODE IN THE UNII-3 BAND

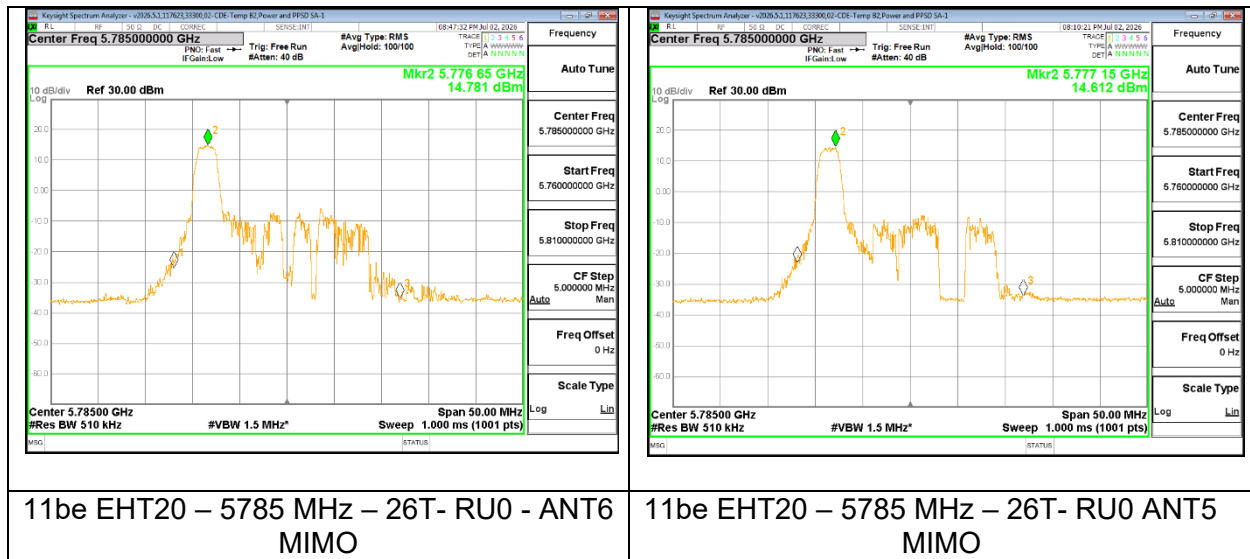
UNII-3 (SISO)	20MHz		40MHz		80MHz	
	SU	26T	SU	SU	484+242T	
DCCF (MCS0) (dB)	0	0	0	0	0	
ANT6 (dBi)	-0.40					
ANT5 (dBi)	1.90					

UNII-3 (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5	ANT6	ANT5
EHT20	5745	149	SU	—	—	—	30.00	30.00	20.39	20.22	20.39	20.22	30.00	30.00	5.609	5.418	5.609	5.418
			0	0			30.00	30.00	20.48	20.30	20.48	20.30	30.00	30.00	15.087	14.612	15.087	14.612
			26T	4			30.00	30.00	20.43	20.27	20.43	20.27	30.00	30.00	14.635	14.261	14.635	14.261
			8	8			30.00	30.00	20.46	20.28	20.46	20.28	30.00	30.00	14.832	14.410	14.832	14.410
	5785	157	SU	—			30.00	30.00	20.40	20.23	20.40	20.23	30.00	30.00	5.638	5.473	5.638	5.473
			0	0			30.00	30.00	20.50	20.31	20.50	20.31	30.00	30.00	15.136	14.677	15.136	14.677
			26T	4			30.00	30.00	20.44	20.25	20.44	20.25	30.00	30.00	14.673	14.167	14.673	14.167
			8	8			30.00	30.00	20.47	20.32	20.47	20.32	30.00	30.00	15.019	14.680	15.019	14.680
	5825	165	SU	—			30.00	30.00	20.41	20.24	20.41	20.24	30.00	30.00	5.659	5.498	5.659	5.498
			0	0			30.00	30.00	20.49	20.29	20.49	20.29	30.00	30.00	15.107	14.556	15.107	14.556
			26T	4			30.00	30.00	20.42	20.26	20.42	20.26	30.00	30.00	14.600	14.176	14.600	14.176
			8	8			30.00	30.00	20.45	20.33	20.45	20.33	30.00	30.00	14.713	14.683	14.713	14.683
EHT40	5755	151	SU	—	—	—	30.00	30.00	20.37	20.21	20.37	20.21	30.00	30.00	3.269	3.037	3.269	3.037
	5795	159	—	—			30.00	30.00	20.38	20.20	20.38	20.20	30.00	30.00	3.293	2.739	3.293	2.739
EHT80	5775	155	SU	—	—	—	30.00	30.00	20.36	20.16	20.36	20.16	30.00	30.00	-0.090	-0.368	-0.090	-0.368
			91	91			30.00	30.00	20.36	20.17	20.36	20.17	30.00	30.00	0.775	0.331	0.775	0.331
			92	92			30.00	30.00	20.46	20.19	20.46	20.19	30.00	30.00	0.939	0.450	0.939	0.450
			484+242T	93			30.00	30.00	20.31	20.18	20.31	20.18	30.00	30.00	0.699	0.345	0.699	0.345

9.5.16. 802.11be MIMO CDD MODE IN THE UNII-3 BAND

UNII-3 (MIMO CDD)	20MHz		40MHz		80MHz	
	SU	26T	SU	SU	484+242T	
DCCF (MCS0) (dB)	0	0	0	0	0	
Un- Correlated Gain (dBi)	-0.30					
Correlated Gain (dBi)	2.30					

UNII-3 (MIMO CDD)	Freq (MHz)	Ch. #	Tone	RU Index	Min BW (MHz)	Power Limit (dBm)	Output Power (Gated) (dBm)		Total MIMO Corrected Power (dBm)	PSD Limit (dBm/MHz)	PSD (dBm/MHz)		Total MIMO Corrected PSD (dBm/MHz)
							ANT6	ANT5			ANT6	ANT5	
EHT20	5745	149	SU	—	--	30.00	20.22	20.26	23.25	30.00	5.272	5.649	8.475
			26T	0		30.00	20.39	20.39	23.40	30.00	14.670	14.598	17.644
				4		30.00	20.28	20.32	23.31	30.00	14.044	14.216	17.141
				8		30.00	20.36	20.34	23.36	30.00	14.548	14.486	17.527
	5785	157	SU	—		30.00	20.23	20.25	23.25	30.00	5.342	5.626	8.497
			26T	0		30.00	20.39	20.39	23.40	30.00	14.781	14.612	17.708
				4		30.00	20.31	20.33	23.33	30.00	14.207	14.275	17.251
				8		30.00	20.39	20.38	23.40	30.00	14.603	14.579	17.601
	5825	165	SU	—		30.00	20.24	20.27	23.27	30.00	5.458	5.665	8.573
			26T	0		30.00	20.39	20.39	23.40	30.00	14.665	14.666	17.676
				4		30.00	20.29	20.30	23.31	30.00	14.080	14.106	17.103
				8		30.00	20.37	20.35	23.37	30.00	14.564	14.521	17.553
EHT40	5755	151	SU	--	--	30.00	20.21	20.18	23.21	30.00	2.810	2.656	5.744
	5795	159		--		30.00	20.19	20.20	23.21	30.00	2.662	2.785	5.734
EHT80	5775	155	SU	--	--	30.00	20.17	20.16	23.18	30.00	-0.265	-0.657	2.554
			484+242T	91		30.00	19.77	19.92	22.86	30.00	-0.212	0.088	2.951
				92		30.00	19.80	19.87	22.85	30.00	-0.208	0.073	2.945
				93		30.00	19.83	19.86	22.86	30.00	-0.109	0.073	2.993

Worst-Case PSD Plot :

10. SETUP PHOTOS

Please refer to 16064952-EP1V1 FCC IC Setup Photos.

11. APPENDIX A – SPOT CHECK EVALUATION

11.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3447, A3719, A3720 and A3721. These models are very similar, with only the following differences.

Model	FCC ID	Feature Difference	Sim Support	Reference Model
A3447	BCG-E9188A	-With FR2 -No B11, B21	eSIM	-
A3719	BCG-E9198A	-Without FR2 -Added B11, B21		A3447
A3720	BCG-E9203A	-Without FR2 -No LTE/5GNR B14, B29, B71, B11, B21		
A3721	BCG-E9204A	-Without FR2 -No LTE/5GNR B14, B29, B71, B11, B21, B53 -No MSS		

Note:

- All Models use the same System, Cellular and Connectivity radio electrical schematics.
- Removal of LTE/ 5GNR bands on models either done by software or de-population of related components. Please refer to data reuse test plan for details.
- All Models use the same Applications Processor and PMU.
- All Models use the same UICC hardware/software interface.
- All Models run the same Baseband firmware and iOS software.

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

11.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3719

A3719 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3447	Sub Model: A3719	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9188A	FCC ID : BCG-E9198A			
NII / UNII-1	5.2G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.86	22.84	-0.02	-1.14	Note 1
		EHT20 (Ant 6) State A	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	36	5.149446	51.50	48.90	-2.60	-2.50	Note 1
		HT20 (CDD) State A	MCS0	Avg RSE (dBuV/m)	Vertical 1 to 18	36	17.979589	42.15	45.15	3.00	-11.85	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.89	22.87	-0.02	-1.11	Note 1
		EHT20 (CDD) STATE A	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	64	5.350099	51.45	49.75	-1.70	-2.55	Note 1
		HT20 (CDD) STATE B	MCS0	Avg RSE (dBuV/m)	Vertical 1 to 18	64	15.64439	42.62	39.77	-2.85	-11.38	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	142	5.710	22.95	22.91	-0.04	-1.05	Note 1
		EHT160 (Ant 5) STATE B	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Vertical Low Bandedge	114	5.454643	49.91	47.19	-2.72	-4.09	Note 1
		HT20 (CDD) STATE A	MCS0	Avg RSE (dBuV/m)	Horizontal 1 to 18	100	17.975569	42.03	42.93	0.90	-11.97	Note 1
NII / UNII-3	5.8G	EHT20 (CDD)	26T RU0	Avg Power (dBm)	Fundamental	149	5.745	23.40	23.48	0.08	-6.60	Note 1
		VHT80 (CDD) STATE A	MCS9	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	155	5.647234	-31.65	-34.27	-2.62	-4.65	Note 1
		EHT80 (CDD) STATE B	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	155	15.740895	42.26	42.71	0.45	-11.74	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

11.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3720

A3720 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3447	Sub Model: A3720	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9188A	FCC ID : BCG-E9203A			
NII / UNII-1	5.2G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.86	22.84	-0.02	-1.14	Note 1
		EHT20 (Ant 6) State A	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	36	5.149446	51.50	48.70	-2.80	-2.50	Note 1
		HT20 (CDD) State A	MCS0	Avg RSE (dBuV/m)	Vertical 1 to 18	36	17.979589	42.15	44.84	2.69	-11.85	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.89	22.87	-0.02	-1.11	Note 1
		EHT20 (CDD) STATE A	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	64	5.350099	51.45	50.10	-1.35	-2.55	Note 1
		HT20 (CDD) STATE B	MCS0	Avg RSE (dBuV/m)	Vertical 1 to 18	64	15.64439	42.62	42.56	-0.06	-11.38	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	142	5.710	22.95	22.97	0.02	-1.05	Note 1
		EHT160 (Ant 5) STATE B	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Vertical Low Bandedge	114	5.454643	49.91	47.05	-2.86	-4.09	Note 1
		HT20 (CDD) STATE A	MCS0	Avg RSE (dBuV/m)	Horizontal 1 to 18	100	17.975569	42.03	42.53	0.50	-11.97	Note 1
NII / UNII-3	5.8G	EHT20 (CDD)	26T RU0	Avg Power (dBm)	Fundamental	149	5.745	23.40	23.37	-0.03	-6.60	Note 1
		VHT80 (CDD) STATE A	MCS9	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	155	5.647234	-31.65	-31.27	0.38	-4.65	Note 1
		EHT80 (CDD) STATE B	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	155	15.740895	42.26	42.97	0.71	-11.74	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

11.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3721

A3721 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3447	Sub Model: A3721	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9188A	FCC ID : BCG-E9204A			
NII / UNII-1	5.2G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.86	22.84	-0.02	-1.14	Note 1
		EHT20 (Ant 6) State A	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	36	5.149446	51.50	48.62	-2.88	-2.50	Note 1
		HT20 (CDD) State A	MCS0	Avg RSE (dBuV/m)	Horizontal 1 to 18	36	17.979589	42.15	44.96	2.81	-11.85	Note 1
NII / UNII-2A	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.89	22.87	-0.02	-1.11	Note 1
		EHT20 (CDD) STATE A	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	64	5.350099	51.45	50.12	-1.33	-2.55	Note 1
		HT20 (CDD) STATE B	MCS0	Avg RSE (dBuV/m)	Vertical 1 to 18	64	15.64439	42.62	42.15	-0.47	-11.38	Note 1
NII / UNII-2C	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	142	5.710	22.95	22.93	-0.02	-1.05	Note 1
		EHT160 (Ant 5) STATE B	MCS11 SU	Avg Radiated Bandedge (dBuV/m)	Vertical Low Bandedge	114	5.454643	49.91	47.06	-2.85	-4.09	Note 1
		HT20 (CDD) STATE A	MCS0	Avg RSE (dBuV/m)	Horizontal 1 to 18	100	17.975569	42.03	43.07	1.04	-11.97	Note 1
NII / UNII-3	5.8G	EHT20 (CDD)	26T RU0	Avg Power (dBm)	Fundamental	149	5.745	23.40	23.36	-0.04	-6.60	Note 1
		VHT80 (CDD) STATE A	MCS9	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	155	5.647234	-31.65	-32.84	-1.19	-4.65	Note 1
		EHT80 (CDD) STATE B	MCS0 SU	Avg RSE (dBuV/m)	Horizontal 1 to 18	155	15.740895	42.26	42.89	0.63	-11.74	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.