

TEST REPORT

Report Number: 15982152-E10V3

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

Model : A3472 (Parent)
A3713, A3714, A3715 (Variants)

Brand : APPLE

FCC ID : BCG-E9186A (Parent Model)
BCG-E9192A, BCG-E9193A, BCG-E9194A (Variant Models)

EUT Description : SMARTPHONE

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

Date Of Issue:
2026-07-15

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REPORT REVISION HISTORY

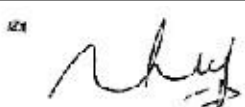
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V1	2026-06-29	Initial Review	Everardo Torres
V2	2026-07-03	Addressed TCB Feedback in Sections 3, 6.5, 9,	Everardo Torres
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3472 (Parent) A3713, A3714, A3715 (Variants)	
Brand	APPLE	
FCC ID	BCG-E9186A (Parent) BCG-E9192A, BCG-E9193A, BCG-E9194A (Variants)	
EUT Description	SMARTPHONE	
Serial Number	C07HP3000UW0001AMR, C07HT4000FJ0001B9T, C07HNZ000KB0001AS9, C07HT2000UG0001B9G, C07HT3000E700019GU (Conducted) LWQQJL6Y6X, KQF475QLT0, DK23WJXH9N, D3NXCL26MX, CWYGJJ1HJK (Radiated)	
Sample Receipt Date	2026-01-06	
Date Tested	2026-13-01 to 2026-22-06	
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 Staff 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/USEMCSC C63.10-2020+Cor 1-2023 (FCC)
- 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, 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 RX only) and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible.

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	19.97	99.31
5190 - 5230	802.11n HT40	19.89	97.50
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	17.41	55.08
5250	802.11ac VHT160	16.31	42.76
5180 - 5240	802.11be EHT20	19.96	99.08
5190 - 5230	802.11be EHT40	19.91	97.95
5210	802.11be EHT80	16.96	49.66
5250	802.11be EHT160	15.87	38.64
UNII-1 band, 2TX			
5180 - 5240	802.11n HT20 CDD	21.26	133.66
5180 - 5240	802.11n HT20 SDM/STBC	Covered by 802.11n HT20 2TX CDD	
5190 - 5230	802.11n HT40 CDD	22.88	194.09
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	19.38	86.70
5210	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5250	802.11ac VHT160 CDD	18.45	69.98
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	18.92	77.98
5210	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5250	802.11be EHT160 CDD	18.30	67.61
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	19.93	98.40
5270 - 5310	802.11n HT40	19.79	95.28
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	17.27	53.33
5250	802.11ac VHT160	16.31	42.76
5260 - 5320	802.11be EHT20	19.95	98.86
5270 - 5310	802.11be EHT40	19.79	95.28
5290	802.11be EHT80	16.29	42.56
5250	802.11be EHT160	15.87	38.64
UNII-2A band, 2TX			
5260 - 5320	802.11n HT20 CDD	21.22	132.43
5260 - 5320	802.11n HT20 SDM/STBC	Covered by 802.11n HT20 2TX CDD	
5270 - 5310	802.11n HT40 CDD	22.84	192.31
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	18.45	69.98
5290	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5250	802.11ac VHT160 CDD	18.45	69.98
5250	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5260 - 5320	802.11be EHT20 CDD	21.36	136.77
5260 - 5320	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5270 - 5310	802.11be EHT40 CDD	22.88	194.09
5270 - 5310	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5290	802.11be EHT80 CDD	18.36	68.55
5290	802.11be EHT80 SDM	Covered by 802.11be EHT80 2TX CDD	
5250	802.11be EHT160 CDD	18.30	67.61
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	19.87	97.05
5510 - 5710	802.11n HT40	19.83	96.16
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	19.79	95.28
5570	802.11ac VHT160	16.48	44.46
5500 - 5720	802.11be EHT20	19.99	99.77
5510 - 5710	802.11be EHT40	19.95	98.86
5530 - 5690	802.11be EHT80	19.91	97.95
5570	802.11be EHT160	15.84	38.37
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	22.95	197.24
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	22.83	191.87
5530 - 5690	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5570	802.11ac VHT160 CDD	18.31	67.76
5570	802.11ac VHT160 SDM/STBC	Covered by 802.11ac VHT160 2TX CDD	
5500 - 5720	802.11be EHT20 CDD	21.41	138.36
5500 - 5720	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5510 - 5710	802.11be EHT40 CDD	22.96	197.70
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	18.32	67.92
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	19.92	98.17
5755 - 5795	802.11n HT40	19.91	97.95
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	19.91	97.95
5745 - 5825	802.11be EHT20	19.94	98.63
5755 - 5795	802.11be EHT40	19.91	97.95
5775	802.11be EHT80	19.92	98.17
5.8 GHz band, 2TX			
5745 - 5825	802.11n HT20 CDD	22.91	195.43
5745 - 5825	802.11n HT20 SDM/STBC	Covered by 802.11n HT40 2TX CDD	
5755 - 5795	802.11n HT40 CDD	22.94	196.79
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	22.87	193.64
5775	802.11ac VHT80 SDM/STBC	Covered by 802.11ac VHT80 2TX CDD	
5745 - 5825	802.11be EHT20 CDD	22.94	196.79
5745 - 5825	802.11be EHT20 SDM	Covered by 802.11be EHT20 2TX CDD	
5755 - 5795	802.11be EHT40 CDD	22.91	195.43
5755 - 5795	802.11be EHT40 SDM	Covered by 802.11be EHT40 2TX CDD	
5775	802.11be EHT80 CDD	22.91	195.43
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:

Model	FCC ID	Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
A3472	BCG-E9186A	5150 - 5250 UNII - 1	-2.9	-0.5	-2.00	0.90
A3713	BCG-E9192A		-5.1	-0.5	-2.60	0.20
A3714	BCG-E9193A					
A3715	BCG-E9194A					
A3472	BCG-E9186A	5250 - 5350 UNII - 2A	-2.1	1.1	-1.00	1.60
A3713	BCG-E9192A		-4.5	1.1	-1.00	1.50
A3714	BCG-E9193A					
A3715	BCG-E9194A					
A3472	BCG-E9186A	5500 - 5700 UNII - 2C	-1.9	3.7	1.10	3.20
A3713	BCG-E9192A		-4.5	3.7	1.00	2.80
A3714	BCG-E9193A					
A3715	BCG-E9194A					
A3472	BCG-E9186A	5725 - 5825 UNII 3	-2.5	2.1	-0.20	2.50
A3713	BCG-E9192A		-3.4	2.1	-0.30	1.90
A3714	BCG-E9193A					
A3715	BCG-E9194A					

Cable Loss		
Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)
5150 - 5250 UNII - 1	-2.78	-2.61
5250 - 5350 UNII - 2A	-2.78	-2.60
5500 - 5700 UNII - 2C	-2.95	-2.74
5725 - 5825 UNII 3	-3.01	-2.80

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.

Band	ANT6	ANT16	ANT6+ANT16
5GHz	Z-Portrait	Y-Landscape	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.

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						X		X		X		X				
	52 + 26	70 ~ 81	70	71	72																
	106	53 ~ 54	53	--	54																
	106 + 26	82 ~ 89	82	--	83																
	242	61	--	61	--																
40	SU	--	--	--	--	X		X		X		X		X		X		X		X	
	484	65	--	65	--																
80	SU	--			--	X		X		X		X		X		X		X		X	
	484 + 242	90, 91, 92, 93	91	93	92		X		X		X		X		X		X		X		X
	996	67	--	67	--																
160	SU	--	--	--	--	X		X		X		X		X		X		X		X	
	996 + 484	sb0: 94, 95 sb1: 94, 95	95 (sb0)	95 (sb1)	94 (sb1)		X		X		X		X		X		X				
	996 + 484 + 242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	99 (sb1)	99 (sb0)	96 (sb0)																
	996x2	S68	--	S68	--																
160	SU	--	--	--	--	X		X		X		X		X		X					

6.6. REUSE STATEMENT AND COMPARISON TABLE

The maximum output power for reference model A3472 (FCC ID: BCG-E9186A) and variant models A3713, A3714, A3715 (FCC ID: BCG-E9192A, BCG-E9193A, BCG-E9194A) are identical across all power tables for ANT6 and ANT16. The only difference is antenna gain decreased on ANT6.

As there is no change in output power between parent model and variant model, all conducted data from the reference model is reused for these variant models. Spot checks to verify output power is the same for the variant models compared reference model is included in Appendix A.

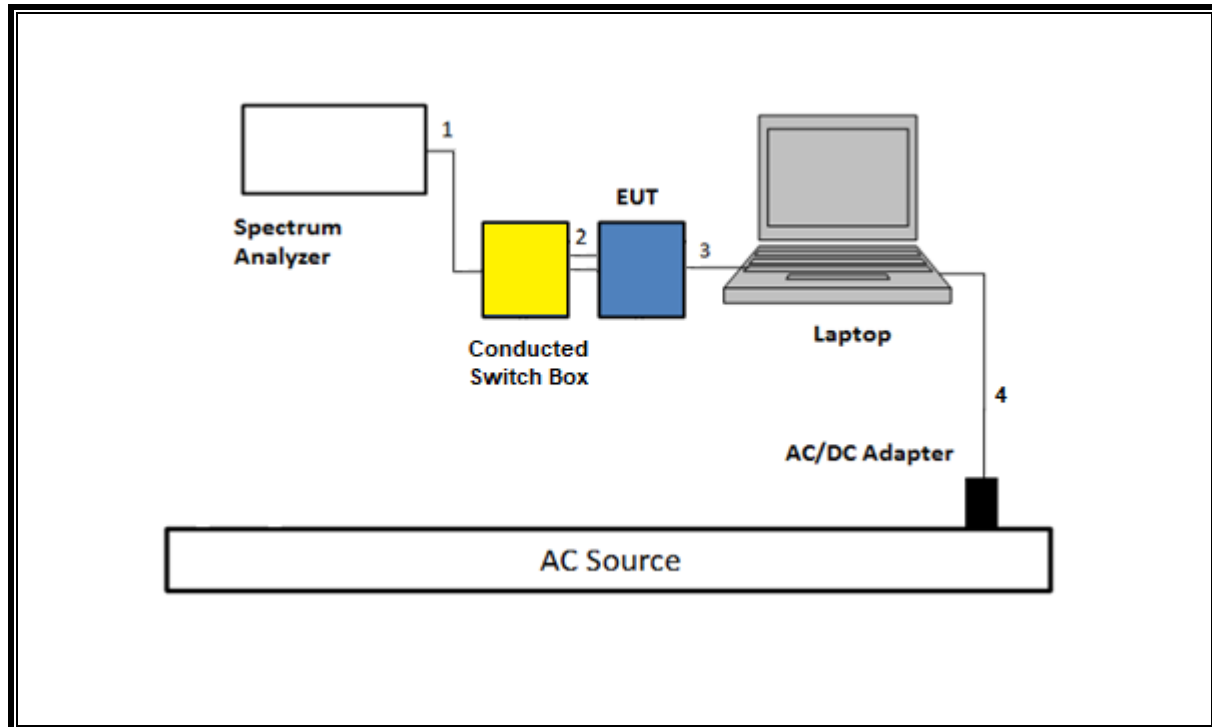
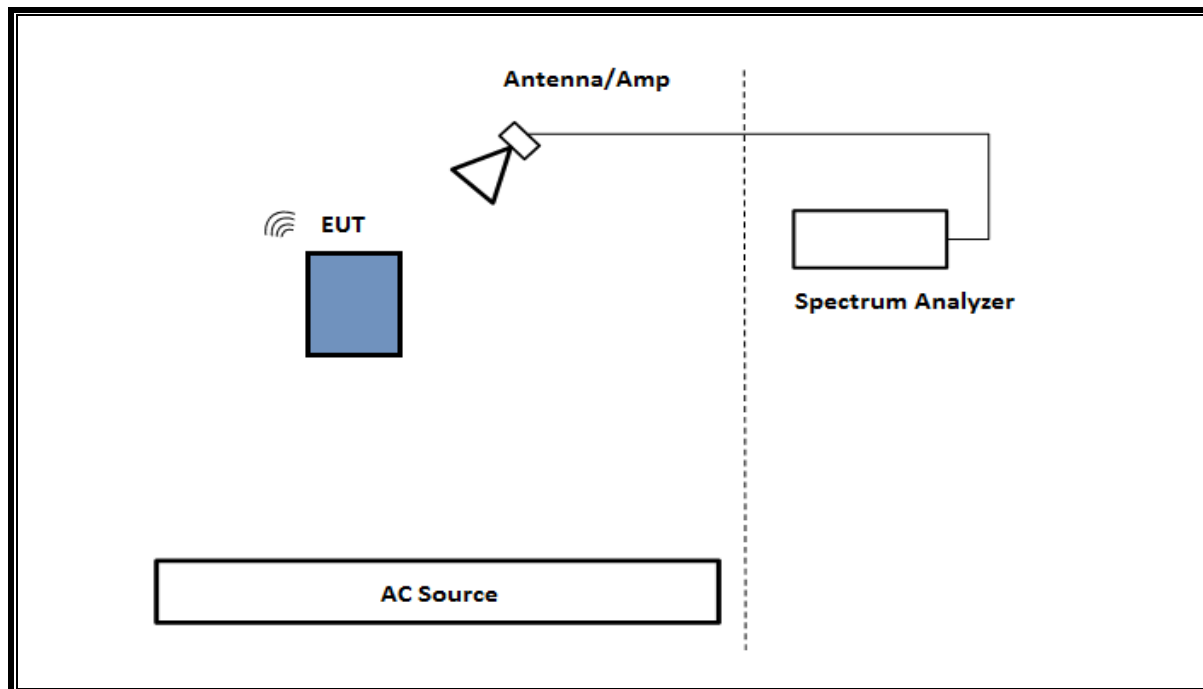
Radiated measurements are also fully reusing the reference model data supported by spot checks in Appendix A.

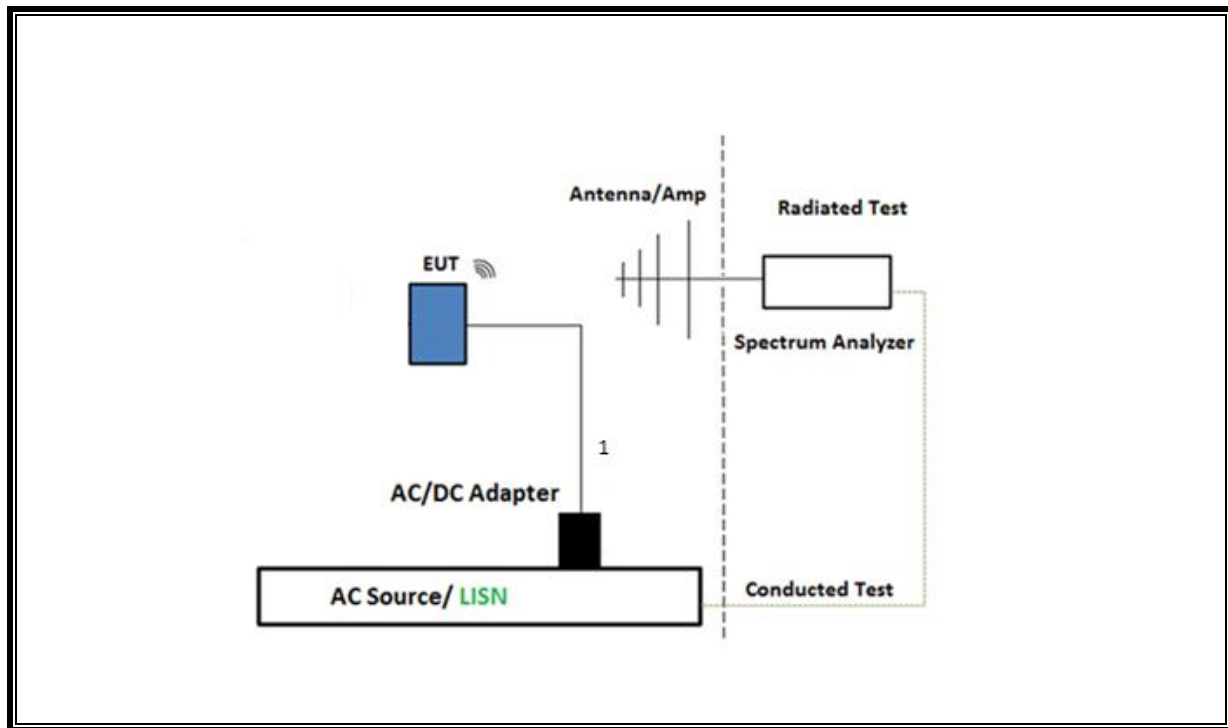
6.7. DESCRIPTION OF TEST SETUP

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

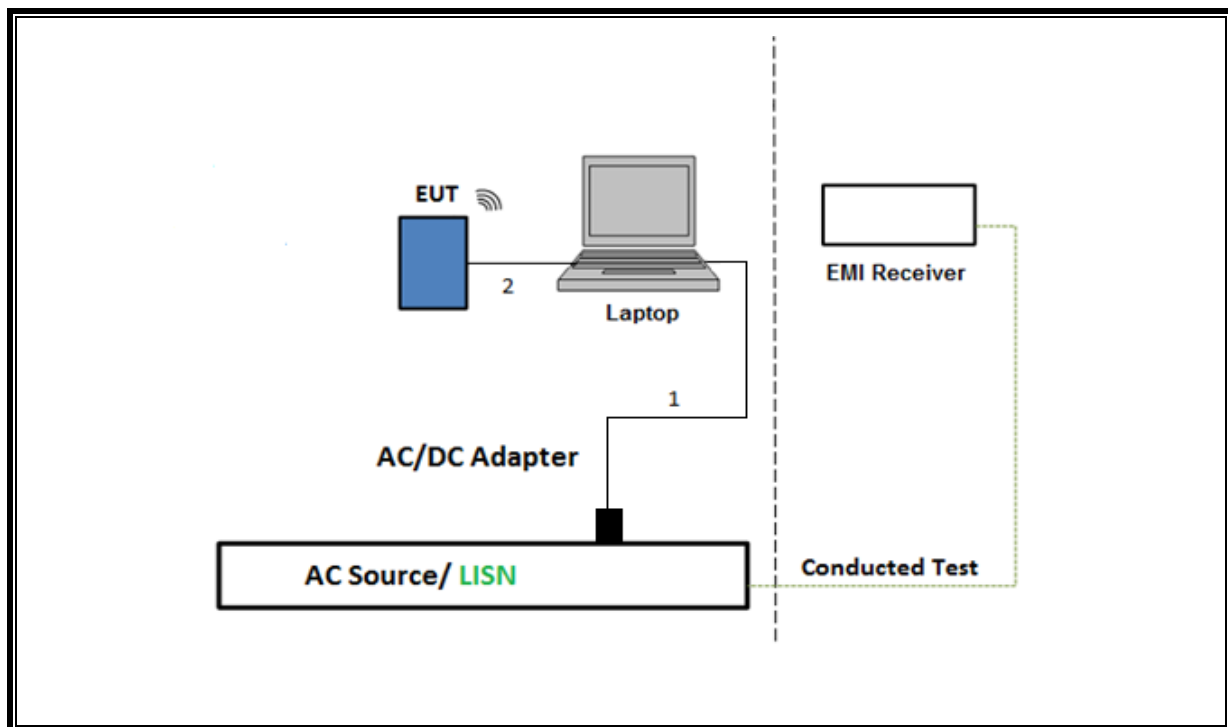
TEST SETUP

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	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	RATS 1.0, 1 Amp, 6 Port	173233	2027-04-30
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	226673	2028-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	235266	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	2026-06-30
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
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	80403	2026-09-30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223460	2027-02-28
Filter Box	UL-FR1	Frankenstein, 1 Amp, 12	231876	2027-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	84796	2027-05-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201497	2027-02-28
*Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225474	2026-05-31
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park,	3117	230300	2027-03-31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201501	2027-02-28
Filter Box	UL-FR1	RATS 2.0, 1 Amp, 17 Port	225575	2027-01-30

TEST EQUIPMENT LIST CONTINUED				
Description	Manufacturer	Model	ID Num	Cal Due
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
Antenna, Passive Loop, 30Hz - 1MHz	Electro-Metrics	EM-6871	170014	2027-09-30
Antenna, Passive Loop, 100kHz to 30MHz	Electro-Metrics	EM-6872	170016	2027-09-30
*Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	224489	2026-05-31
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	Amplifier, 9KHz to 1GHz, 32dB	170648	2027-03-30
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB1	82258	2026-10-31
Link File, RF Amplifier Assembly, 26-40GHz, 60dB Gain	AMPLICAL	AMP26G40-60	234684	2027-05-31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	199661	2027-03-31
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	172363	2027-05-31
Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	171580	2027-06-30
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

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

*Testing was completed before calibration due date and/or after calibration was completed.

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.

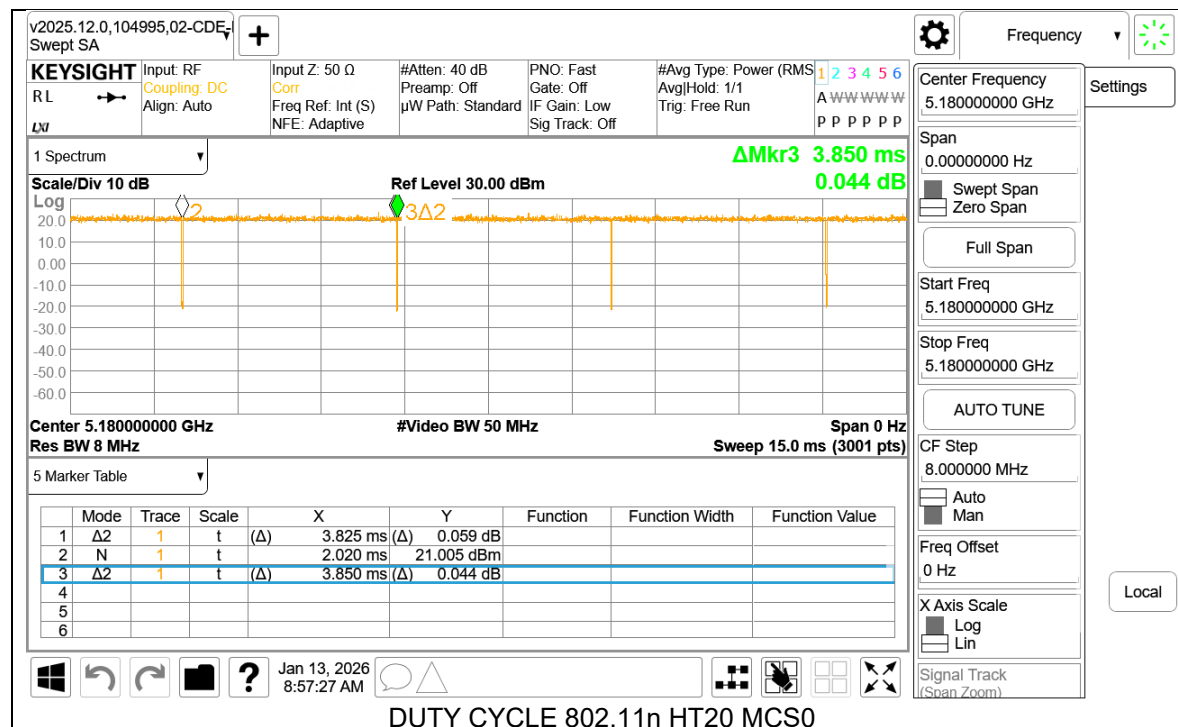
PROCEDURE

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	4.590	4.615	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	5.107	0.9961	99.61	0.00	0.010
		MCS9	2.061	2.085	0.9885	98.85	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	4.655	0.9925	99.25	0.00	0.010
		MCS11	5.440	5.460	0.9963	99.63	0.00	0.010
	26T	MCS0	2.029	2.064	0.9830	98.30	0.00	0.010
		MCS11	2.029	2.067	0.9816	98.16	0.00	0.010
	52T	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
11be EHT40	SU	MCS0	5.373	5.400	0.9950	99.50	0.00	0.010
		MCS11	2.980	3.003	0.9923	99.23	0.00	0.010
11be EHT80	SU	MCS0	5.140	5.167	0.9948	99.48	0.00	0.010
		MCS11	1.462	1.487	0.9832	98.32	0.00	0.010
	484+242T	MCS0	2.029	2.067	0.9816	98.16	0.00	0.010
		MCS11	2.029	2.064	0.9830	98.30	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+484T	MCS0	2.029	2.072	0.9792	97.92	0.09	0.493
		MCS11	2.029	2.064	0.9830	98.30	0.00	0.010

Note: The same DCCF is used for both 1TX and 2TX.



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:	19232	Date:	2026-05-20
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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	ANT16	ANT6	ANT16
UNII-1	HT20	5180	36	22.99	23.66	18.14	18.13
		5200	40	23.24	23.43	18.19	18.13
		5240	48	23.39	23.52	18.15	18.24
	HT40	5190	38	45.98	46.59	36.90	36.90
		5230	46	46.20	45.61	36.96	36.85
	VHT80	5210	42	81.77	82.08	75.95	75.99
	VHT160 (Straddle)	5250	50	163.90	165.40	155.37	155.15
UNII-2A	HT20	5260	52	23.54	22.98	18.18	18.14
		5300	60	23.51	23.31	18.14	18.15
		5320	64	23.56	23.43	18.11	18.11
	HT40	5270	54	45.87	46.03	36.82	36.92
		5310	62	45.26	45.12	36.89	36.77
	VHT80	5290	58	81.93	81.22	75.94	75.93
	VHT160 (Straddle)	5250	50	163.90	165.40	155.37	155.15
UNII-2C	HT20	5500	100	24.19	23.36	18.19	18.21
		5580	116	23.25	23.07	18.12	18.19
		5700	140	23.64	23.29	18.15	18.12
		5720 (Straddle)	144	24.01	23.70	18.17	18.14
	HT40	5510	102	45.22	45.36	36.87	36.99
		5550	110	46.06	45.15	36.92	36.86
		5670	134	45.45	45.10	36.88	36.90
		5710 (Straddle)	142	45.83	45.82	36.91	36.95
	VHT80	5530	106	81.55	81.47	75.90	75.92
		5610	122	81.61	81.67	75.97	75.98
		5690 (Straddle)	138	81.64	81.44	75.96	75.96
	VHT160	5570	114	169.30	164.60	155.00	155.11
UNII-3	HT20	5745	149	23.55	23.87	18.15	18.09
		5785	157	23.22	23.65	18.15	18.19
		5825	165	23.76	23.40	18.15	18.20
	HT40	5755	151	45.31	45.35	36.84	36.87
		5795	159	44.96	45.83	36.80	36.92
	VHT80	5775	155	81.72	81.46	76.06	75.98

9.2.2. 802.11n/ac MIMO CDD MODE

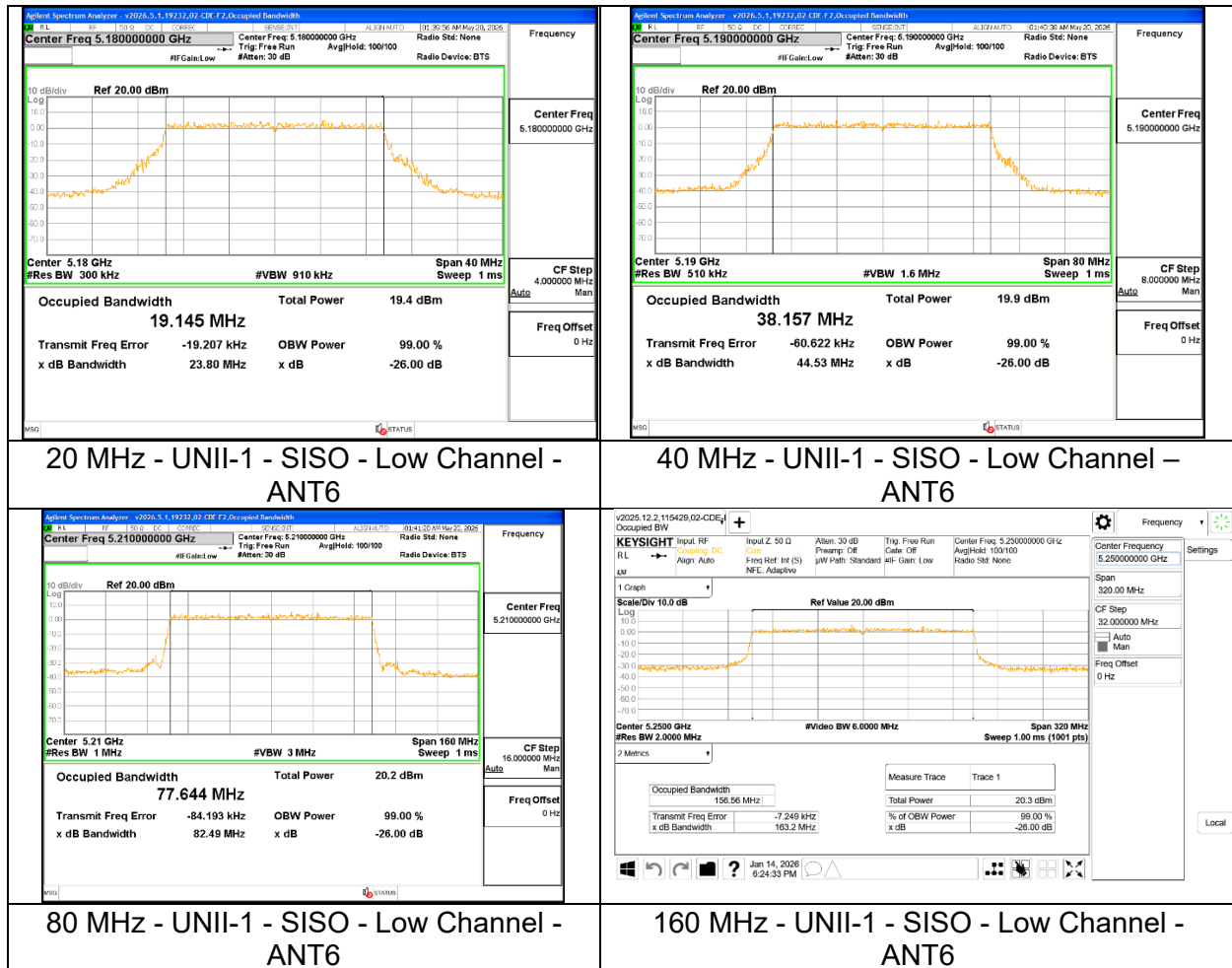
Band (MIMO CDD)	Mode	Frequency (MHz)	Channel Number	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
				ANT6	ANT16	Min BW	ANT6	ANT16	Min BW
UNII-1	HT20	5180	36	23.80	22.75	—	18.19	18.03	—
		5200	40	23.83	22.98	—	18.12	18.04	—
		5240	48	23.76	23.09	—	18.11	18.07	—
	HT40	5190	38	45.55	43.66	—	37.00	36.70	—
		5230	46	45.79	44.83	—	36.97	36.82	—
	VHT80	5210	42	81.94	81.37	—	76.03	76.09	—
UNII-2A	HT20	5260	52	23.40	23.79	23.4	18.20	18.10	18.10
		5280	56	23.00	22.49	22.49	18.01	17.84	17.84
		5300	60	23.70	23.23	23.23	18.15	18.12	18.12
		5320	64	23.21	23.02	23.02	18.13	18.00	18.00
	HT40	5270	54	46.20	43.93	43.93	36.97	36.71	36.71
		5310	62	45.66	44.02	44.02	36.89	36.73	36.73
	VHT80	5290	58	81.60	81.70	81.60	75.99	75.95	75.95
	VHT160 (Straddle)	5250	50	165.70	165.10	165.10	155.09	154.93	154.93
UNII-2C	HT20	5500	100	23.88	22.81	22.81	18.19	18.06	18.06
		5580	116	23.36	22.92	22.92	18.25	18.04	18.04
		5600	120	22.49	22.13	22.13	18.01	17.82	17.82
		5700	140	23.26	23.15	23.15	18.16	18.08	18.08
		5720 (Straddle)	144	23.31	22.81	22.81	18.17	18.12	18.12
	HT40	5510	102	45.59	43.82	43.82	36.85	36.68	36.68
		5550	110	46.43	44.28	44.28	36.92	36.65	36.65
		5670	134	45.18	44.21	44.21	36.86	36.64	36.64
		5710 (Straddle)	142	46.13	43.87	43.87	36.93	36.75	36.75
	VHT80	5530	106	81.70	81.14	81.14	76.03	75.93	75.93
		5610	122	81.75	81.35	81.35	76.02	76.05	76.02
		5690 (Straddle)	138	81.88	80.92	80.92	76.07	75.95	75.95
	VHT160	5570	114	166.40	166.10	166.10	155.12	155.13	155.12
UNII-3	HT20	5745	149	23.64	23.22	—	18.14	18.12	—
		5785	157	23.50	23.45	—	18.13	18.12	—
		5825	165	23.11	22.78	—	18.17	18.11	—
	HT40	5755	151	45.38	45.00	—	36.90	36.70	—
		5795	159	45.48	43.57	—	36.97	36.59	—
	VHT80	5775	155	81.51	81.46	—	76.00	76.02	—

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	ANT16	ANT6	ANT16
EHT20	5180	36	SU	—	23.80	23.16	19.15	19.15
			26T	0	20.65	20.36	18.63	18.66
				4	18.24	18.15	16.96	16.89
				8	20.55	20.43	18.62	18.52
	5200	40	SU	—	22.98	23.43	19.15	19.14
			26T	0	20.69	20.78	18.67	18.74
				4	18.28	18.33	16.96	16.95
				8	20.48	20.57	18.60	18.59
	5240	48	SU	—	22.88	22.97	19.14	19.13
			26T	0	20.47	20.61	18.65	18.67
				4	18.20	18.22	16.92	16.98
				8	20.42	20.43	18.60	18.53
EHT40	5190	38	SU	—	44.53	44.70	38.16	38.11
	5230	46	SU	—	45.21	44.36	38.20	38.09
EHT80	5210	42	SU	—	82.49	82.48	77.64	77.68
			484+242T	91	82.84	82.59	78.06	78.02
				92	82.50	82.73	78.16	78.04
				93	63.44	63.31	58.90	58.81
EHT160 (Straddle)	5250	50	SU	—	163.20	165.00	156.56	156.69
			996+484T	95	170.00	170.67	157.17	157.30
				S94	172.40	172.24	157.19	157.15
				S95	125.42	124.89	117.14	117.24

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	ANT16	Min BW	ANT6	ANT16	Min BW	
EHT20	5180	36	SU	—	23.42	23.14	—	19.16	19.12	—	
			26T	0	20.54	20.50	—	18.69	18.54	—	
				4	18.24	18.12	—	16.92	16.79	—	
				8	20.58	20.54	—	18.55	18.52	—	
	5200	40	SU	—	23.37	23.48	—	19.15	19.20	—	
			26T	0	20.76	20.56	—	18.69	18.55	—	
				4	18.09	18.21	—	16.89	16.68	—	
				8	20.35	20.52	—	18.55	18.54	—	
	5240	48	SU	—	23.03	23.27	—	19.16	19.17	—	
			26T	0	21.03	20.42	—	18.69	18.52	—	
				4	18.14	18.23	—	16.95	16.81	—	
				8	20.66	20.22	—	18.55	18.50	—	
EHT40	5190	38	SU	—	45.00	44.29	—	38.19	38.16	—	
	5230	46	SU	—	45.47	44.83	—	38.19	38.09	—	
EHT80	5210	42	484+242T	SU	—	82.27	81.85	—	77.64	77.70	—
				91	82.51	82.41	—	78.13	78.05	—	
				92	82.41	82.48	—	78.18	78.02	—	
				93	63.27	63.61	—	58.85	58.88	—	
EHT160 (Straddle)	5250	50	996+484T	SU	—	167.80	164.90	—	156.73	156.42	—
				95	171.46	170.26	—	157.17	157.17	—	
				S94	171.35	171.88	—	157.31	156.91	—	
				S95	124.87	124.37	—	117.10	117.17	—	



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	ANT16	ANT6	ANT16
EHT20	5260	52	SU	—	23.12	23.14	19.11	19.12
			52T	37	20.84	21.19	18.39	18.40
				38	18.79	18.89	17.02	16.95
				40	20.93	20.73	18.30	18.26
	5300	60	SU	—	23.49	23.36	19.17	19.13
			52T	37	21.01	21.29	18.41	18.42
				38	19.04	18.98	16.97	16.99
				40	20.70	20.82	18.33	18.29
	5320	64	SU	—	23.26	23.36	19.15	19.13
			52T	37	20.91	21.13	18.35	18.40
				38	18.98	18.91	16.99	16.95
				40	20.75	20.79	18.29	18.24
EHT40	5270	54	SU	—	43.59	44.86	38.21	38.21
	5310	62	SU	—	44.66	45.18	38.03	38.09
EHT80	5290	58	SU	—	82.36	82.36	77.74	77.65
			484+242T	91	82.26	81.98	77.97	78.11
				92	82.44	82.60	78.00	77.98
				93	63.33	62.99	58.71	58.70
EHT160 (Straddle)	5250	50	SU	—	163.20	165.00	156.56	156.69
			996+484T	95	170.00	170.67	157.17	157.30
				S94	172.40	172.24	157.19	157.15
				S95	125.42	124.89	117.14	117.24

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	ANT16	Min BW	ANT6	ANT16	Min BW	
EHT20	5260	52	SU	—	22.92	22.96	22.92	19.17	19.16	19.16	
				37	21.16	20.39	20.39	18.43	18.23	18.23	
			52T	38	18.90	18.40	18.40	16.95	16.78	16.78	
				40	20.61	20.36	20.36	18.24	18.18	18.18	
	5300	60	SU	—	23.40	23.15	23.15	19.14	19.16	19.14	
				37	21.33	20.66	20.66	18.44	18.27	18.27	
			52T	38	19.08	18.44	18.44	17.03	16.86	16.86	
				40	20.65	20.39	20.39	18.28	18.13	18.13	
	5320	64	SU	—	23.54	23.04	23.04	19.12	19.13	19.12	
				37	20.84	20.52	20.52	18.41	18.23	18.23	
			52T	38	18.93	18.32	18.32	17.04	16.84	16.84	
				40	20.80	20.17	20.17	18.30	18.21	18.21	
EHT40	5270	54	SU	—	44.68	44.38	44.38	38.14	38.12	38.12	
	5310	62	SU	—	43.87	44.03	43.87	38.16	38.14	38.14	
EHT80	5290	58	484+242T	SU	—	82.46	82.52	82.46	77.68	77.71	77.68
				91	81.96	81.75	81.75	78.03	78.00	78.00	
				92	81.66	81.90	81.66	78.07	78.02	78.02	
				93	63.09	62.85	62.85	58.64	58.64	58.64	
EHT160 (Straddle)	5250	50	996+484T	SU	—	167.80	164.90	164.90	156.73	156.42	156.42
				95	171.46	170.26	170.26	157.17	157.17	157.17	
				S94	171.35	171.88	171.35	157.31	156.91	156.91	
				S95	124.87	124.37	124.37	117.10	117.17	117.10	

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	ANT16	ANT6	ANT16
EHT20	5500	100	SU	—	23.39	23.46	19.18	19.11
			52T	37	21.24	21.00	18.37	18.40
				38	18.97	18.91	16.84	16.94
				40	20.68	20.99	18.25	18.24
	5580	116	SU	—	23.60	23.27	19.16	19.11
			52T	37	20.94	21.42	18.38	18.39
				38	18.89	18.96	16.81	17.00
				40	20.68	20.64	18.31	18.28
	5620	124	SU	—	23.07	23.05	19.04	19.04
			52T	37	20.84	21.22	18.39	18.41
				38	18.79	18.98	17.02	17.01
				40	20.93	20.82	18.30	18.27
	5700	140	SU	—	23.45	23.33	19.11	19.19
			52T	37	21.47	21.81	18.43	18.35
				38	18.54	18.88	16.97	16.92
				40	20.41	20.57	18.25	18.11
	5720 (Straddle)	144	SU	—	23.72	23.32	19.16	19.11
			52T	37	21.00	20.93	18.31	18.36
				38	18.83	18.97	17.09	17.00
				40	20.52	20.60	18.27	18.08
EHT40	5510	102	SU	—	44.51	44.32	38.14	38.15
	5550	110	SU	—	43.97	44.94	38.14	38.18
	5670	134	SU	—	45.43	45.54	38.19	38.07
	5710 (Straddle)	142	SU	—	44.97	45.83	38.14	38.08
EHT80	5530	106	SU	—	82.18	81.81	77.61	77.75
			484+242T	91	82.16	82.64	77.81	77.85
				92	82.71	82.17	77.80	77.78
				93	63.16	62.90	58.59	58.42
	5610	122	SU	—	82.16	82.38	77.70	77.76
			484+242T	91	82.31	81.89	77.76	77.74
				92	82.46	81.69	77.93	77.83
				93	63.11	63.05	58.54	58.48
	5690 (Straddle)	138	SU	—	82.28	82.04	77.69	77.51
			484+242T	91	82.60	82.46	77.83	77.80
				92	82.24	82.44	77.88	77.80
				93	63.37	63.68	58.50	58.46
EHT160	5570	114	SU	—	166.40	164.70	156.40	156.49
			996+484T	95	170.74	169.30	157.03	157.16
				S94	171.16	171.19	157.03	157.22
				S95	124.63	124.42	117.18	117.06

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	ANT16	Min BW	ANT6	ANT16	Min BW
EHT20	5500	100	SU	—	23.27	22.70	22.70	19.14	19.14	19.14
				37	21.06	20.79	20.79	18.35	18.18	18.18
			52T	38	18.86	18.37	18.37	16.91	16.86	16.86
				40	20.58	20.29	20.29	18.30	18.21	18.21
	5580	116	SU	—	23.09	23.35	23.09	19.16	19.15	19.15
				37	20.68	20.47	20.47	18.36	18.22	18.22
			52T	38	18.90	18.29	18.29	16.95	16.85	16.85
				40	20.83	20.36	20.36	18.29	18.11	18.11
	5620	124	SU	—	23.09	22.86	22.86	19.11	19.01	19.01
				37	20.86	20.46	20.46	18.41	18.21	18.21
			52T	38	18.66	18.37	18.37	16.94	16.70	16.70
				40	20.51	20.60	20.51	18.29	18.21	18.21
	5700	140	SU	—	23.58	23.53	23.53	19.15	19.11	19.11
				37	20.54	20.45	20.45	18.23	17.98	17.98
			52T	38	18.59	18.27	18.27	17.05	16.83	16.83
				40	20.92	20.43	20.43	18.31	18.23	18.23
	5720 (Straddle)	144	SU	—	22.95	23.18	22.95	19.24	19.16	19.16
				37	21.08	21.08	21.08	18.40	18.22	18.22
			52T	38	18.81	18.18	18.18	16.98	16.81	16.81
				40	20.71	20.49	20.49	18.24	18.25	18.24
EHT40	5510	102	SU	—	45.68	45.60	45.60	38.15	38.12	38.12
	5550	110	SU	—	44.38	44.36	44.36	38.23	38.17	38.17
	5670	134	SU	—	46.12	44.69	44.69	38.12	38.13	38.12
	5710 (Straddle)	142	SU	—	44.26	44.15	44.15	38.13	38.07	38.07
EHT80	5530	106	SU	—	82.36	81.75	81.75	77.78	77.63	77.63
				91	81.98	82.54	81.98	77.82	77.73	77.73
			484+242T	92	82.13	82.24	82.13	77.90	77.79	77.79
				93	63.35	63.43	63.35	58.53	58.47	58.47
	5610	122	SU	—	82.20	82.29	82.20	77.66	77.71	77.66
				91	82.47	82.19	82.19	77.72	77.74	77.72
			484+242T	92	82.33	82.53	82.33	77.75	77.78	77.75
				93	63.19	63.09	63.09	58.48	58.53	58.48
	5690 (Straddle)	138	SU	—	82.68	82.26	82.26	77.57	77.61	77.57
				91	82.76	82.37	82.37	77.95	77.86	77.86
			484+242T	92	81.82	82.21	81.82	77.90	77.80	77.80
				93	63.19	63.26	63.19	58.67	58.59	58.59
EHT160	5570	114	SU	—	164.20	165.30	164.20	156.79	156.48	156.48
				95	172.00	170.42	170.42	157.07	157.06	157.06
			996+484T	S94	171.32	171.13	171.13	157.08	156.98	156.98
				S95	124.24	124.25	124.24	117.06	117.14	117.06

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	ANT16	ANT6	ANT16
EHT20	5745	149	SU	—	23.17	23.08	19.20	19.23
			26T	0	20.73	20.27	18.71	18.67
				4	18.29	18.33	16.97	16.98
				8	20.57	20.36	18.58	18.58
	5785	157	SU	—	23.02	23.45	19.13	19.21
			26T	0	20.82	20.65	18.67	18.66
				4	18.33	18.36	16.97	16.96
				8	20.58	20.64	18.58	18.59
	5825	165	SU	—	22.81	23.32	19.18	19.19
			26T	0	20.61	20.81	18.62	18.67
				4	18.30	18.30	16.96	16.96
				8	20.64	20.36	18.62	18.64
EHT40	5755	151	SU	—	45.03	45.31	38.13	38.17
	5795	159	SU	—	44.56	45.06	38.13	38.16
EHT80	5775	155	SU	—	82.05	82.65	77.67	77.57
			484+242T	91	82.58	83.12	78.14	78.11
				92	82.48	82.95	78.14	78.08
				93	63.05	63.28	58.90	58.78

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	ANT16	ANT6	ANT16
EHT20	5745	149	SU	—	22.80	23.26	19.13	19.13
			26T	0	20.91	20.51	18.72	18.47
				4	18.43	18.08	16.95	16.83
				8	20.50	20.43	18.57	18.54
	5785	157	SU	—	23.65	23.31	19.13	19.20
			26T	0	20.66	20.43	18.66	18.50
				4	18.07	18.15	16.88	16.78
				8	20.65	20.44	18.66	18.49
	5825	165	SU	—	22.96	23.15	19.21	19.14
			26T	0	20.52	20.15	18.65	18.57
				4	18.33	18.19	16.94	16.75
				8	20.58	20.26	18.57	18.50
EHT40	5755	151	SU	—	45.96	44.27	38.15	38.11
	5795	159	SU	—	45.32	44.49	38.10	38.15
EHT80	5775	155	SU	—	82.61	82.16	77.69	77.72
			484+242T	91	82.99	82.70	78.14	78.21
				92	82.84	82.75	78.13	78.16
				93	63.35	63.88	58.85	58.77

9.3. BANDWIDTH VERIFICATION OF CHANNEL PUNCTURING IN THE DFS BANDS

LIMITS

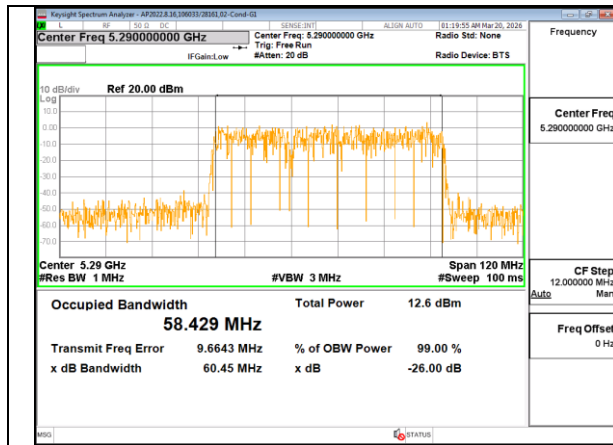
When a 20 MHz portion is punctured the remaining emissions do not bleed into the notched channel, i.e., 26 dB or 99% bandwidth is contained outside of the notched band.

RESULTS

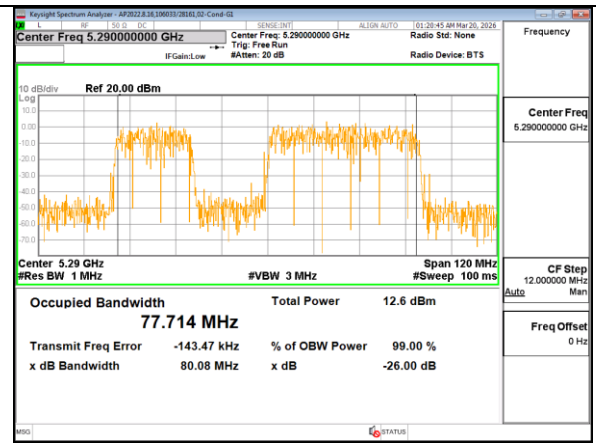
ID:	106033/28161	Date:	2026-03-20
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9.3.1. 802.11be EHT80 SISO MODE

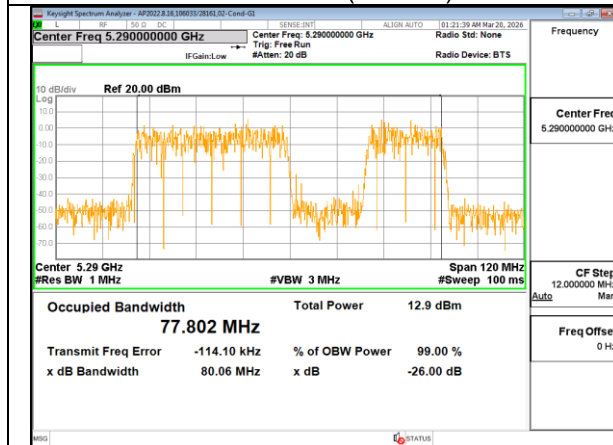
EHT80	SISO	Frequency (MHz)	Channel Number	Tone	Puncturing Pattern	Full Channel			Left Bandwidth	Right Bandwidth
						Bandwidth (MHz)		Chan Punc >26dB?		
						26dB	99% BW	Yes = Pass No = Fail	99% BW (MHz)	
UNII-2A	ANT6	5290	58	484+242	1	60.45	58.429	Yes		
					2	80.08	77.714	Yes	19.398	37.778
					4	80.06	77.802	Yes	37.845	19.215
					8	61.2	58.611	Yes		
UNII-2C		5530	106	484+242	1	60.84	58.479	Yes		
					2	80.24	78.078	Yes	19.334	38.047
					4	80.26	77.837	Yes	38.139	19.265
					8	60.63	58.122	Yes		
		5610	122		1	61.85	58.599	Yes		
					2	80.04	77.931	Yes	19.14	38.2
					4	80.54	77.385	Yes	38.273	19.231
					8	60.71	58.512	Yes		
		5690 (Straddle)	138		1	60.42	58.249	Yes		
					2	80.57	77.876	Yes	19.184	38.182
					4	80.19	77.807	Yes	37.93	19.344
					8	60.99	58.35	Yes		
UNII-2A	ANT16	5290	58	484+242	1	60.87	58.164	Yes		
					2	80.44	77.378	Yes	19.313	38.198
					4	80.4	77.658	Yes	38.103	19.215
					8	61.06	58.536	Yes		
UNII-2C		5530	106	484+242	1	60.75	58.228	Yes		
					2	80.09	77.718	Yes	19.391	38.174
					4	80.15	77.513	Yes	38.404	19.256
					8	60.63	58.207	Yes		
		5610	122		1	60.7	58.122	Yes		
					2	80.64	77.603	Yes	19.207	38.14
					4	80.01	77.362	Yes	38.148	19.148
					8	60.65	58.264	Yes		
		5690 (Straddle)	138		1	60.55	58.19	Yes		
					2	80.59	77.64	Yes	19.192	37.925
					4	81.03	77.693	Yes	38.08	20.99
					8	60.52	58.565	Yes		



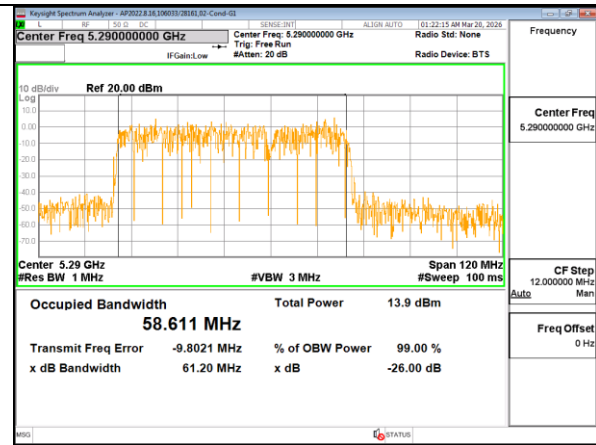
80MHz - 484+242T - Mid Channel -
Puncture Pattern 1 - (UNII-2A) - ANT6



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



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



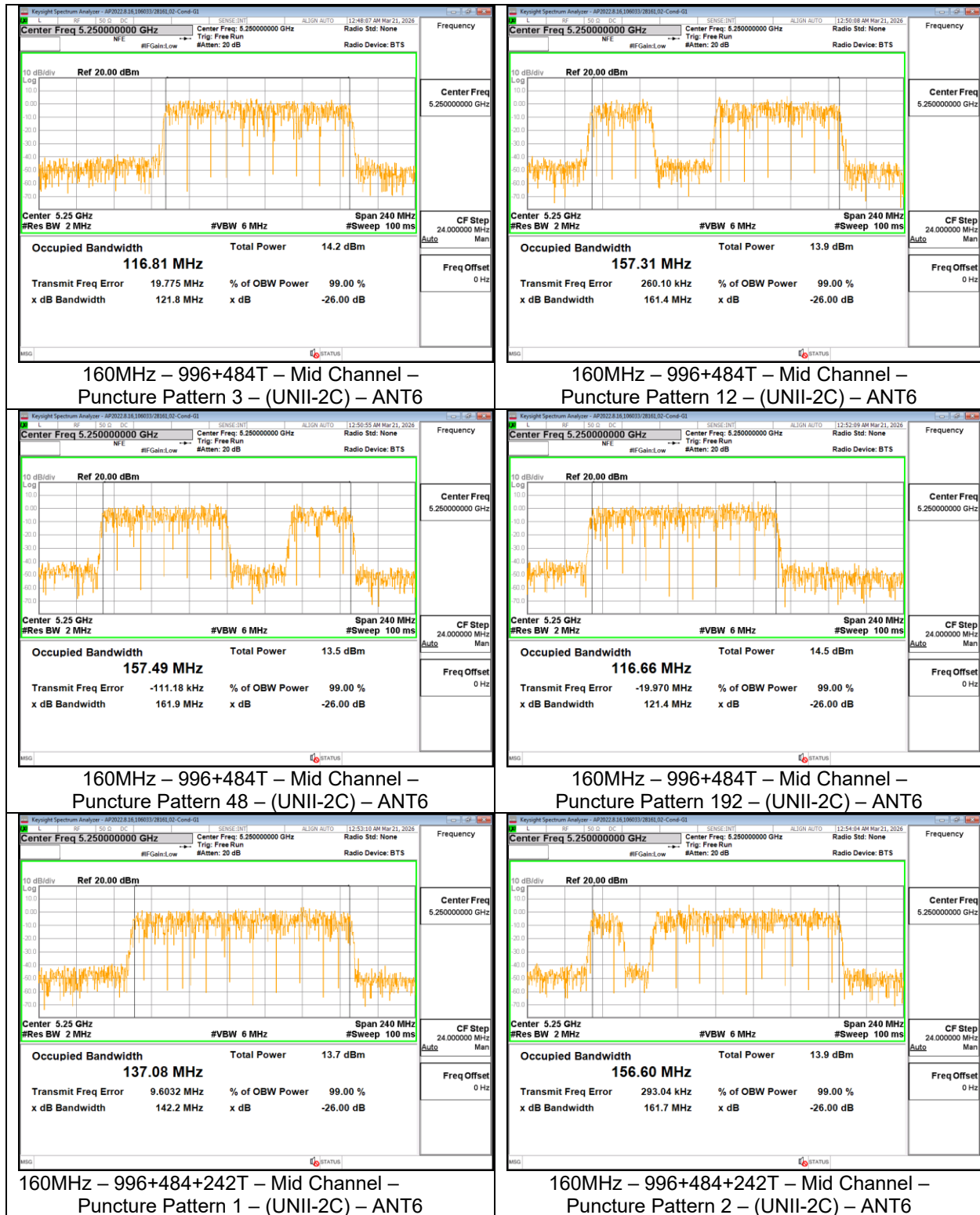
80MHz - 484+242T - Mid Channel -
Puncture Pattern 8 - (UNII-2A) - ANT6

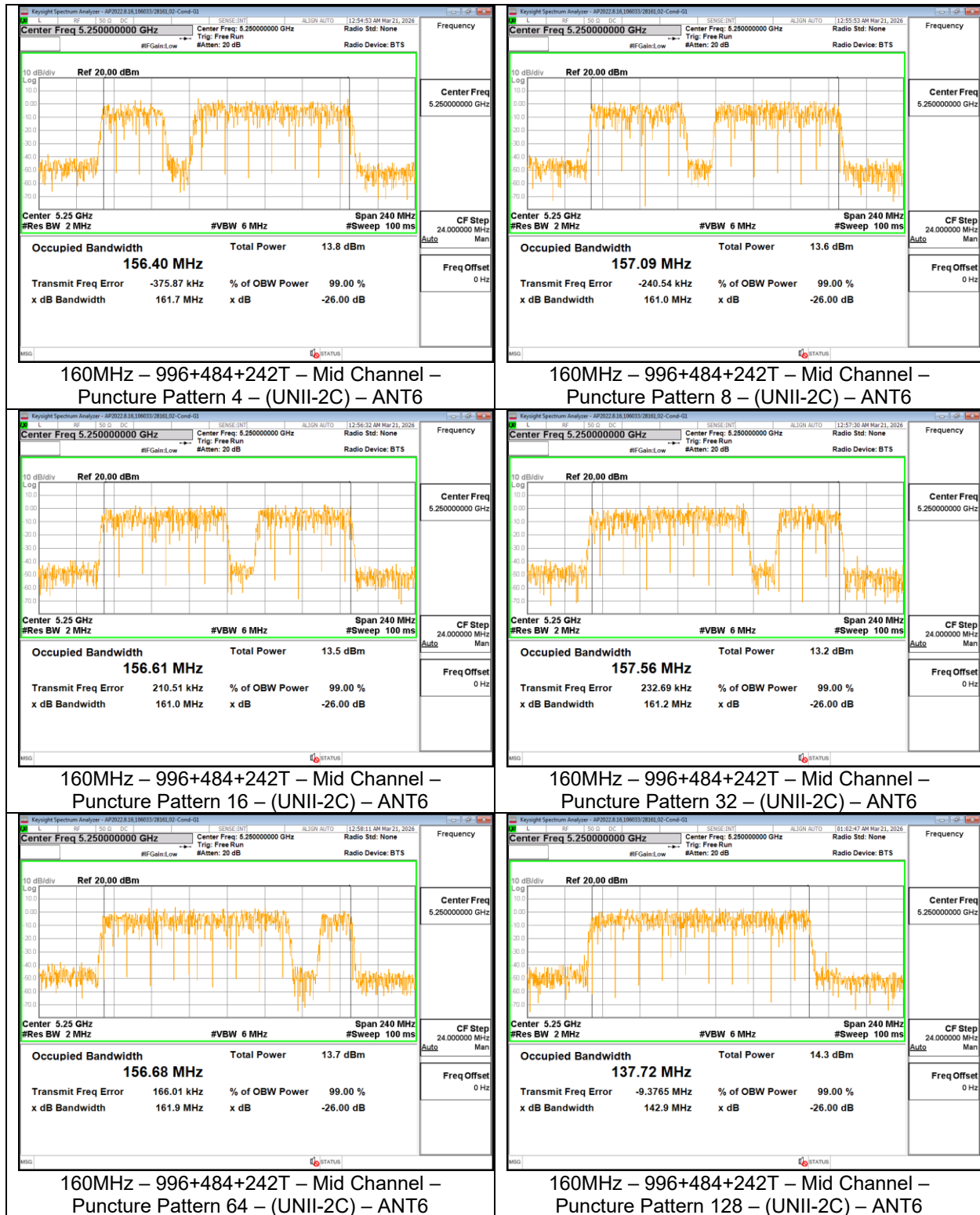
9.3.2. 802.11be EHT80 MIMO CDD MODE

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	61.25	58.17	Yes		
					2	79.92	77.77	Yes	19.167	37.855
					4	79.92	77.419	Yes	38.152	19.288
					8	60.29	58.27	Yes		
UNII-2C		5530	106	484+242	1	60.62	58.365	Yes		
					2	79.81	77.251	Yes	19.334	37.85
					4	79.96	77.217	Yes	38.083	19.293
					8	60.67	58.179	Yes		
		5610	122		1	61.42	58.497	Yes		
					2	80	77.593	Yes	19.294	37.898
					4	80.07	77.494	Yes	38.19	19.157
					8	60.5	58.325	Yes		
		5690 (Straddle)	138		1	60.44	58.644	Yes		
					2	80.05	77.716	Yes	19.269	38.1
					4	80.19	77.358	Yes	38.18	19.464
					8	60.86	58.127	Yes		
UNII-2A	ANT16	5290	58	484+242	1	60.43	58.29	Yes		
					2	79.54	77.399	Yes	19.331	37.915
					4	80.04	77.003	Yes	37.94	19.217
					8	80.04	77.003	Yes		
UNII-2C		5530	106	484+242	1	60.67	58.115	Yes		
					2	79.71	77.052	Yes	19.291	38.016
					4	80.25	77.34	Yes	37.869	19.255
					8	80.25	77.34	Yes		
		5610	122		1	60.63	58.209	Yes		
					2	80.14	77.711	Yes	19.453	38.258
					4	80.34	77.645	Yes	37.965	19.201
					8	60.83	58.094	Yes		
		5690 (Straddle)	138		1	60.62	58.737	Yes		
					2	80.25	77.81	Yes	19.157	38.33
					4	80.05	77.6	Yes	38.191	19.357
					8	60.6	57.941	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? Yes = Pass No = Fail		
						26dB	99% BW		99% BW (MHz)	
UNII-2A	ANT6	5250 (Straddle)	50	996+484	3	121.8	116.81	Yes		
					12	161.4	157.31	Yes	38.873	77.142
					48	161.9	157.49	Yes	77.664	38.587
					192	121.4	116.66	Yes		
				996+484+242	1	142.2	137.08	Yes		
					2	161.7	156.6	Yes	20.235	116.36
					4	161.7	156.4	Yes	39.151	98.521
					8	161	157.09	Yes	58.65	77.812
					16	161	156.61	Yes	77.555	58.92
					32	161.2	157.56	Yes	98.123	39.13
					64	161.9	156.68	Yes	116.66	20.242
					128	142.9	137.72	Yes		
UNII-2C	ANT6	5570	114	996+484	3	121.9	117.02	Yes		
					12	161.9	155.73	Yes	38.554	77.285
					48	162.2	156.78	Yes	78.14	38.713
					192	121.3	117.31	Yes		
				996+484+242	1	142.3	137.64	Yes		
					2	161.8	156.9	Yes	20.338	117.51
					4	161	156.27	Yes	38.642	98.128
					8	161	156.98	Yes	58.78	77.854
					16	161.6	156.76	Yes	77.647	59.053
					32	161.5	155.32	Yes	98.202	38.74
					64	161.3	155.53	Yes	117.43	20.216
					128	142	137.28	Yes		
UNII-2A	ANT16	5250 (Straddle)	50	996+484	3	121.7	116.43	Yes		
					12	161.5	157.36	Yes	38.559	77.642
					48	160.6	156.46	Yes	77.935	38.846
					192	121.6	117.1	Yes		
				996+484+242	1	142.2	136.3	Yes		
					2	161.7	156.3	Yes	20.169	117.26
					4	161.7	156.72	Yes	38.749	98.012
					8	161.4	155.76	Yes	58.842	77.484
					16	161.6	156.16	Yes	77.649	77.649
					32	161.4	155.47	Yes	97.931	39.025
					64	161.8	155.67	Yes	117.45	20.288
					128	142.1	137.38	Yes		
UNII-2C	ANT16	5570	114	996+484	3	121	117.12	Yes		
					12	161.6	156.46	Yes	39.139	77.614
					48	161.3	157.03	Yes	77.637	38.722
					192	121.3	117.07	Yes		
				996+484+242	1	142.1	137.67	Yes		
					2	161.5	156.8	Yes	20.363	116.88
					4	162.2	156.56	Yes	38.522	98.214
					8	161.4	156.36	Yes	59.228	77.763
					16	161.3	156.02	Yes	78.4182	59.023
					32	161.6	156.99	Yes	98.165	38.386
					64	161.7	157.11	Yes	116.85	20.143
					128	141.7	137.29	Yes		





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	122	116.23	Yes		
					12	161.3	156.12	Yes	39.014	78.164
					48	161.1	156.41	Yes	77.675	38.433
					192	121.2	117.55	Yes		
			996+484+242	1	142.6	136.32	Yes			
				2	161.6	156.39	Yes	20.116	117.13	
				4	161.1	156.34	Yes	38.836	97.763	
				8	162.1	157.61	Yes	58.919	77.923	
				16	161.4	157.14	Yes	77.718	58.897	
				32	161.8	156.24	Yes	98.796	39.031	
				64	160.9	157.2	Yes	117.2	20.082	
				128	142.2	137.94	Yes			
		5570	114	996+484	3	121.8	117.28	Yes		
					12	162	157.14	Yes	38.558	77.869
					48	161.1	157.15	Yes	78.267	38.093
					192	123	116.56	Yes		
			996+484+242	1	142.3	137.3	Yes			
				2	161.2	156.27	Yes	20.215	117.12	
				4	161.9	156.2	Yes	39.181	97.467	
				8	161.6	157.22	Yes	58.988	78.048	
				16	161.7	157.1	Yes	77.739	59.028	
				32	161.8	156.93	Yes	98.197	38.557	
				64	162	156.92	Yes	116.65	20.135	
				128	142.7	137.31	Yes			
UNII-2A	ANT16	5250 (Straddle)	50	996+484	3	121.9	116.56	Yes		
					12	161.2	158.27	Yes	38.763	77.948
					48	161.2	156.78	Yes	77.63	38.603
					192	120.9	116.98	Yes		
			996+484+242	1	142.4	136.99	Yes			
				2	161.4	155.11	Yes	20.318	117.46	
				4	161.5	156.7	Yes	38.695	97.84	
				8	161.4	156.82	Yes	59.389	77.591	
				16	161.4	155.88	Yes	77.691	59.063	
				32	161.6	156.81	Yes	98.574	38.827	
				64	161.9	156.33	Yes	117.36	20.38	
				128	142.1	137.72	Yes			
		5570	114	996+484	3	121.3	116.59	Yes		
					12	161.2	157.45	Yes	38.852	77.362
					48	161.5	156.75	Yes	78.031	38.788
					192	121.9	116.92	Yes		
			996+484+242	1	142.7	137.31	Yes			
				2	161.6	155.85	Yes	20.203	117.72	
				4	161.9	156.9	Yes	38.979	97.84	
				8	161	156.81	Yes	59.109	77.816	
				16	161.6	155.89	Yes	77.624	58.665	
				32	161.6	156.81	Yes	98.332	38.825	
				64	160.8	156.06	Yes	117.24	20.46	
				128	141.7	136.41	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	ANT16
HT20	5720 (Straddle)	144	3.888	3.892
	5745	149	17.76	17.76
	5785	157	17.68	17.68
	5825	165	17.84	17.64
HT40	5710 (Straddle)	142	3.256	3.264
	5755	151	36.64	36.64
	5795	159	36.64	36.72
VHT80	5690 (Straddle)	138	3.256	3.256
	5775	155	76.64	76.48

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

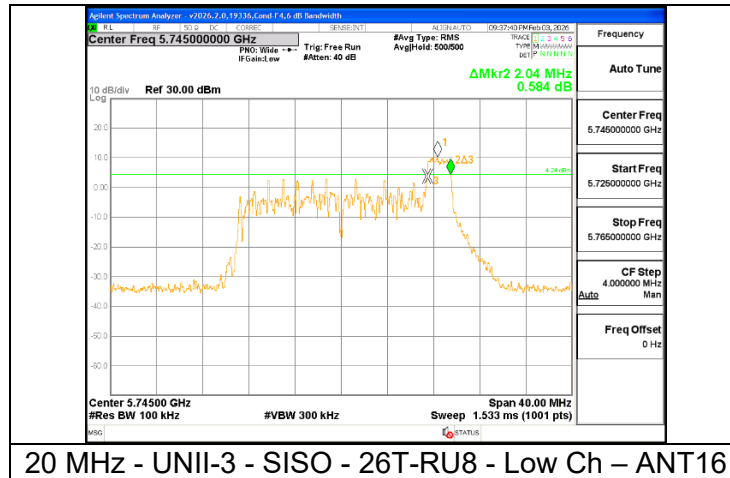
UNII-3 (MIMO CDD)	Frequency (MHz)	Channel Number	6 dB BW (MHz)	
			ANT6	ANT16
HT20	5720 (Straddle)	144	3.896	3.792
	5745	149	17.84	17.72
	5785	157	17.72	17.72
	5825	165	17.84	17.68
HT40	5710 (Straddle)	142	3.264	3.256
	5755	151	36.48	36.48
	5795	159	36.48	36.64
VHT80	5690 (Straddle)	138	3.272	3.272
	5775	155	76.80	76.80

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	ANT16
EHT20	5720 (Straddle)	144	SU	—	4.548	4.464
			52T	40	4.12	4.16
	5745	149	SU	—	18.88	19.12
			26T	0	2.12	2.16
				4	2.72	2.68
				8	2.12	2.04
	5785	157	SU	—	19.20	19.08
			26T	0	2.12	2.12
				4	2.72	2.68
				8	2.12	2.12
	5825	165	SU	—	18.96	18.96
			26T	0	2.12	2.08
				4	2.72	2.72
				8	2.12	2.12
EHT40	5710 (Straddle)	142	SU	—	4.056	4.072
	5755	151	SU	—	38.24	38.32
	5795	159	SU	—	38.32	38.24
EHT80	5690 (Straddle)	138	SU	—	4.056	4.056
	5775	155	SU	—	78.40	78.40

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	ANT16
EHT20	5720 (Straddle)	144	SU	—	4.536	4.548
			52T	40	4.008	3.968
	5745	149	SU	—	19.08	19.16
			26T	0	2.12	2.04
				4	2.72	2.72
				8	2.12	2.08
	5785	157	SU	—	19.16	19.04
			26T	0	2.04	2.12
				4	2.72	2.68
				8	2.12	2.08
	5825	165	SU	—	19.20	19.04
			26T	0	2.16	2.12
				4	2.72	2.68
				8	2.08	2.08
EHT40	5710 (Straddle)	142	SU	—	4.12	4.056
	5755	151	SU	—	38.08	38.24
	5795	159	SU	—	38.32	38.32
EHT80	5690 (Straddle)	138	SU	—	4.04	4.056
	5775	155	SU	—	78.40	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 $11 \text{ dBm} + 10 \log B$, 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= $(26\text{dB BW}/2)+5$

11n HT20 and 11be EHT20 straddle channel 99% bandwidth= $(99\% \text{ BW}/2)+5$

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:

Frequency Range (MHz)	ANT6 (dBi)	ANT16 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5150 - 5250 UNII - 1	-2.90	-0.50	-2.00	0.90
5250 - 5350 UNII - 2A	-2.10	1.10	-1.00	1.60
5500 - 5700 UNII - 2C	-1.90	3.70	1.10	3.20
5725 - 5825 UNII 3	-2.50	2.10	-0.20	2.50

OUTPUT POWER CALCULATION:**1Tx**

Total corr'd power = Ant 6

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

ANT 6 Power = 18.42 dBm (Gated Power)

Total corr'd power = 18.42 dBm

2Tx

Total corr'd power = $10 \cdot \log(10^{(\text{Ant 6}/10)} + 10^{(\text{ANT 16}/10)})$

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

Ant 6 Power = 17.62 dBm, ANT 16 Power = 17.54 dBm

Total corr'd power = $10 \cdot \log(10^{(17.62/10)} + 10^{(17.54/10)}) = 20.59 \text{ dBm}$

PSD CALCULATION:**1Tx**

Total corr'd PSD = DCCF + Ant 6

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

Ant 6 PSD = 5.583 dBm/MHz

Total corr'd PSD = 0 + 5.583 = 5.583 dBm/MHz

2Tx

Total corr'd PSD = $(10 \cdot \log(10^{((\text{DCCF} + \text{Ant 6})/10)} + 10^{((\text{DCCF} + \text{ANT 16})/10)}))$

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

Ant6 PSD = 4.724 dBm/MHz, ANT16 PSD = 4.253 dBm/MHz

Total corr'd PSD = $(10 \cdot \log(10^{((0 + (4.724))/10)} + 10^{((0 + (4.253))/10)}))$
= 7.505 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)	-2.90			
ANT16 (dBi)	-0.50			

UNII-2A (SISO)	
Straddle Channel	
ANT6 (dBi)	-2.10
ANT16 (dBi)	1.10

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	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20	5180	36	--		24.00	24.00	18.94	18.91	18.94	18.91	11.00	11.00	5.090	5.020	5.090	5.020
	5200	40			24.00	24.00	19.87	19.93	19.87	19.93	11.00	11.00	6.788	6.794	6.788	6.794
	5240	48			24.00	24.00	19.95	19.97	19.95	19.97	11.00	11.00	6.839	6.831	6.839	6.831
HT40	5190	38	--		24.00	24.00	17.41	17.38	17.41	17.38	11.00	11.00	1.938	1.669	1.938	1.669
	5230	46			24.00	24.00	19.85	19.89	19.85	19.89	11.00	11.00	4.238	4.576	4.238	4.576
VHT80	5210	42	--		24.00	24.00	17.32	17.41	17.32	17.41	11.00	11.00	-0.750	-0.420	-0.750	-0.420
VHT160	5250 (Straddle)	50	--		24.00	24.00	15.93	16.31	15.93	16.31	11.00	11.00	-4.473	-4.816	-4.473	-4.816

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)	-2.00			
Correlated Gain (dBi)	0.90			

UNII-2A (MIMO CDD)	
Straddle Channel	
Un- Correlat ed Gain (dBi)	-1.00
Correlat ed Gain (dBi)	1.60

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	ANT16			ANT6	ANT16	
HT20	5180	36	—	24.00	17.37	17.34	20.37	11.00	5.038	4.948	8.004
	5200	40		24.00	18.22	18.27	21.26	11.00	6.542	6.574	9.568
	5240	48		24.00	18.15	18.11	21.14	11.00	6.226	6.141	9.194
HT40	5190	38	—	24.00	16.37	16.39	19.39	11.00	1.040	1.086	4.073
	5230	46		24.00	19.89	19.85	22.88	11.00	5.213	5.041	8.138
VHT80	5210	42	—	24.00	16.39	16.35	19.38	11.00	-1.382	-1.574	1.533
VHT160	5250 (Straddle)	50	—	24.00	15.43	15.45	18.45	11.00	-5.027	-4.887	-1.946

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+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0.09
ANT6 (dBi)	-2.90						
ANT16 (dBi)	-0.50						

UNII-2A (SISO)	
Straddle Channel	
ANT6 (dBi)	-2.10
ANT16 (dBi)	1.10

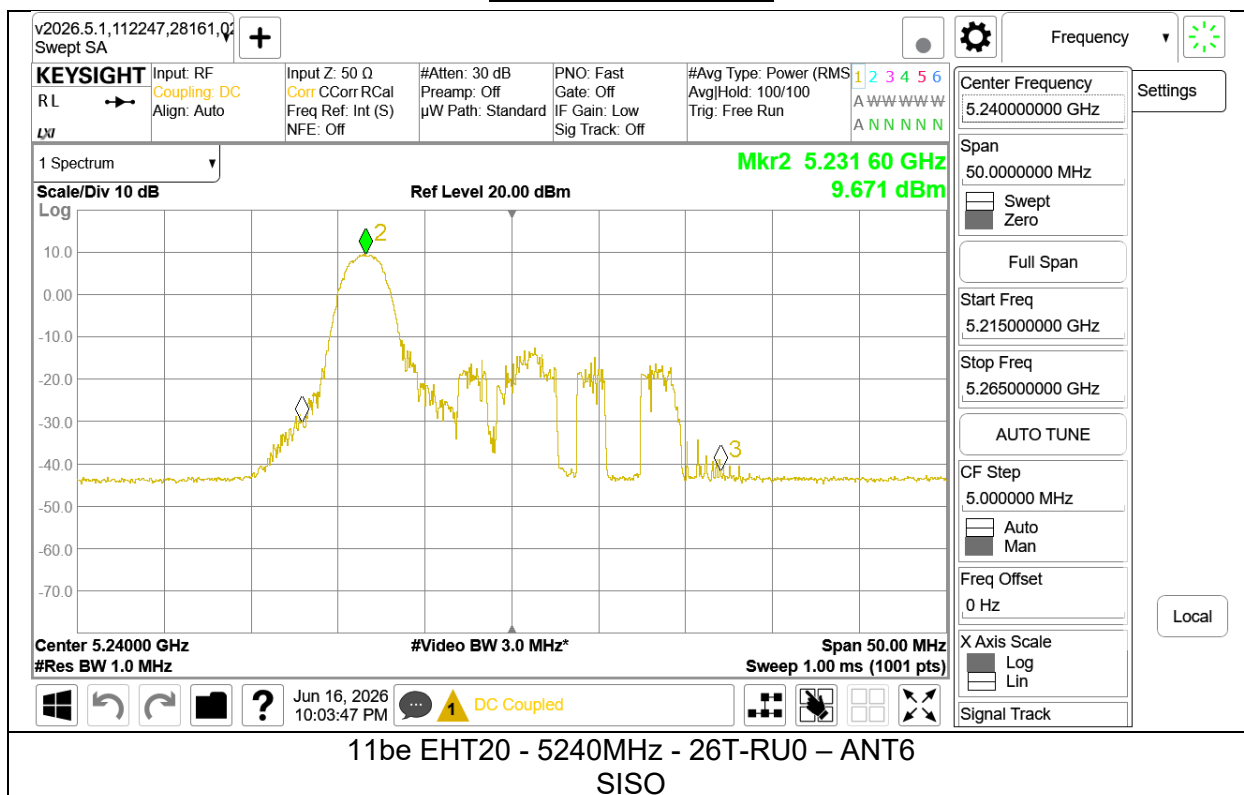
UNII-1 (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD	
					ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
EHT20	5180	36	SU	—	—	24.00	24.00	18.42	18.46	18.42	18.46	11.00	11.00	5.583	5.889	5.583	5.889	
			26T	0		24.00	24.00	12.03	12.01	12.03	12.01	11.00	11.00	9.214	9.339	9.214	9.339	
				4		24.00	24.00	11.96	11.85	11.96	11.85	11.00	11.00	8.433	8.258	8.433	8.258	
				8		24.00	24.00	11.87	11.99	11.87	11.99	11.00	11.00	9.396	9.228	9.396	9.228	
	5200	40	SU	—		24.00	24.00	19.86	19.92	19.86	19.92	11.00	11.00	7.539	7.773	7.539	7.773	
			26T	0		24.00	24.00	12.28	12.16	12.28	12.16	11.00	11.00	9.692	9.569	6.792	9.569	
				4		24.00	24.00	12.26	12.13	12.26	12.13	11.00	11.00	8.817	8.708	8.817	8.708	
				8		24.00	24.00	12.21	12.13	12.21	12.13	11.00	11.00	9.601	9.566	9.601	9.566	
	5240	48	SU	—		24.00	24.00	19.82	19.96	19.82	19.96	11.00	11.00	7.766	7.923	7.766	7.923	
			26T	0		24.00	24.00	12.28	12.18	12.28	12.18	11.00	11.00	9.671	9.440	9.671	9.440	
				4		24.00	24.00	12.26	12.19	12.26	12.19	11.00	11.00	8.621	8.644	8.621	8.644	
				8		24.00	24.00	12.29	12.16	12.29	12.16	11.00	11.00	9.624	9.524	9.624	9.524	
EHT40	5190	38	SU	—	—	24.00	24.00	16.89	16.94	16.89	16.94	11.00	11.00	1.340	1.608	1.340	1.608	
5230	46	—	24.00	24.00		19.91	19.90	19.91	19.90	11.00	11.00	5.047	4.994	5.047	4.994			
EHT80	5210	42	SU	—	—	24.00	24.00	16.96	16.90	16.96	16.90	11.00	11.00	-0.907	-1.164	-0.907	-1.164	
			484+242T	91		24.00	24.00	15.89	15.93	15.89	15.93	11.00	11.00	-0.852	-0.735	-0.852	-0.735	
				93		24.00	24.00	15.78	15.86	15.78	15.86	11.00	11.00	-1.092	-0.957	-1.092	-0.957	
				92		24.00	24.00	15.81	15.84	15.81	15.84	11.00	11.00	-1.073	-0.958	-1.073	-0.958	
EHT160	5250 (Straddle)	50	SU	—	—	24.00	24.00	15.87	15.86	15.87	15.86	11.00	11.00	-4.898	-4.441	-4.898	-4.441	
			996+484T	95		24.00	24.00	14.87	14.86	14.87	14.86	11.00	11.00	-3.488	-3.579	-3.398	-3.489	
				S95		24.00	24.00	14.83	14.84	14.83	14.84	11.00	11.00	-4.072	-3.818	-3.982	-3.728	
				S94		24.00	24.00	14.88	14.85	14.88	14.85	11.00	11.00	-3.156	-3.635	-3.066	-3.545	

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+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0.09
Un- Correlated Gain (dBi)	-2.00						
Correlated Gain (dBi)	0.90						

UNII-2A (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	-1.00
Correlated Gain (dBi)	1.60

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	ANT16			ANT6	ANT16	
EHT20	5180	36	SU	—	—	24.00	17.62	17.54	20.59	11.00	4.724	4.253	7.505
			0	—		24.00	8.97	8.91	11.95	11.00	5.179	5.151	8.175
			26T	4		24.00	8.89	8.86	11.89	11.00	4.363	4.386	7.385
			8	—		24.00	9.02	8.99	12.02	11.00	5.238	5.488	8.375
	5200	40	SU	—		24.00	18.44	18.48	21.47	11.00	5.787	5.811	8.809
			0	—		24.00	9.16	9.10	12.14	11.00	5.648	5.408	8.540
			26T	4		24.00	9.03	9.09	12.07	11.00	4.647	4.948	7.810
			8	—		24.00	9.15	9.11	12.14	11.00	6.096	5.764	8.943
	5240	48	SU	—		24.00	18.44	18.37	21.42	11.00	6.487	6.234	9.373
			0	—		24.00	9.14	9.12	12.14	11.00	5.819	5.694	8.767
			26T	4		24.00	9.06	9.00	12.04	11.00	5.046	4.861	7.965
			8	—		24.00	9.17	9.13	12.16	11.00	6.130	5.835	8.995
EHT40	5190	38	SU	—	—	24.00	16.31	16.44	19.39	11.00	1.102	1.313	4.219
	5230	46	—	—		24.00	19.77	19.91	22.85	11.00	4.511	4.859	7.699
EHT80	5210	42	SU	—	—	24.00	15.95	15.87	18.92	11.00	-2.002	-2.078	0.970
			91	—		24.00	15.44	15.46	18.46	11.00	-1.642	-1.420	1.481
			484+242T	93		24.00	15.43	15.47	18.46	11.00	-1.742	-1.365	1.461
			92	—		24.00	15.42	15.45	18.45	11.00	-1.845	-1.551	1.315
EHT160	5250 (Straddle)	50	SU	—	—	24.00	15.27	15.31	18.30	11.00	-5.298	-5.041	-2.157
			95	—		24.00	13.89	13.82	16.87	11.00	-5.422	-5.583	-2.401
			996+484T	S95		24.00	13.77	13.81	16.80	11.00	-5.885	-5.598	-2.639
			S94	—		24.00	13.86	13.92	16.90	11.00	-5.531	-5.091	-2.205

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)	-2.10			
ANT16 (dBi)	1.10			

UNII-1 (SISO)	
Straddle Channel	
ANT6 (dBi)	-2.90
ANT16 (dBi)	-0.50

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	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20	5260	52	23.54	22.98	24.00	24.00	19.90	19.93	19.90	19.93	11.00	11.00	8.571	8.749	8.571	8.749
	5300	60	23.51	23.31	24.00	24.00	19.86	19.83	19.86	19.83	11.00	11.00	8.512	8.376	8.512	8.376
	5320	64	23.56	23.43	24.00	24.00	18.88	18.79	18.88	18.79	11.00	11.00	8.258	8.157	8.258	8.157
HT40	5270	54	45.87	46.03	24.00	24.00	19.77	19.79	19.77	19.79	11.00	11.00	5.627	5.651	5.627	5.651
	5310	62	45.26	45.12	24.00	24.00	17.47	16.95	17.47	16.95	11.00	11.00	3.832	3.158	3.832	3.158
VHT80	5290	58	81.93	81.22	24.00	24.00	17.27	16.44	17.27	16.44	11.00	11.00	0.742	-0.481	0.742	-0.481
VHT160	5250 (Straddle)	50	86.95	87.70	24.00	24.00	15.93	16.31	15.93	16.31	11.00	11.00	-4.473	-4.816	-4.473	-4.816

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)	-1.00			
Correlated Gain (dBi)	1.60			

UNII-1 (MIMO CDD)	
Straddle Channel	
Un- Correlat ed Gain (dBi)	-2.00
Correlat ed Gain (dBi)	0.90

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	ANT16			ANT6	ANT16	
HT20	5260	52	23.40	24.00	18.06	17.94	21.01	11.00	6.990	6.846	9.929
	5280	56	22.49	24.00	18.20	18.21	21.22	11.00	7.112	7.116	10.124
	5300	60	23.23	24.00	18.14	18.01	21.09	11.00	7.237	6.966	10.114
	5320	64	23.02	24.00	17.58	17.49	20.55	11.00	6.504	6.427	9.476
HT40	5270	54	43.93	24.00	19.90	19.76	22.84	11.00	6.063	5.600	8.848
	5310	62	44.02	24.00	15.40	15.43	18.43	11.00	0.588	0.736	3.673
VHT80	5290	58	81.60	24.00	15.42	15.46	18.45	11.00	-2.378	-2.214	0.715
VHT160	5250 (Straddle)	50	165.10	24.00	15.43	15.45	18.45	11.00	-5.027	-4.887	-1.946

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

UNII-2A (SISO)	20MHz		40MHz		80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T	
DCCF (MCS0) (dB)	0	0	0	0	0	0	0.09	
ANT6 (dBi)	-2.10							
ANT16 (dBi)	1.10							

UNII-1 (SISO)	
Straddle Channel	
ANT6 (dBi)	-2.90
ANT16 (dBi)	-0.50

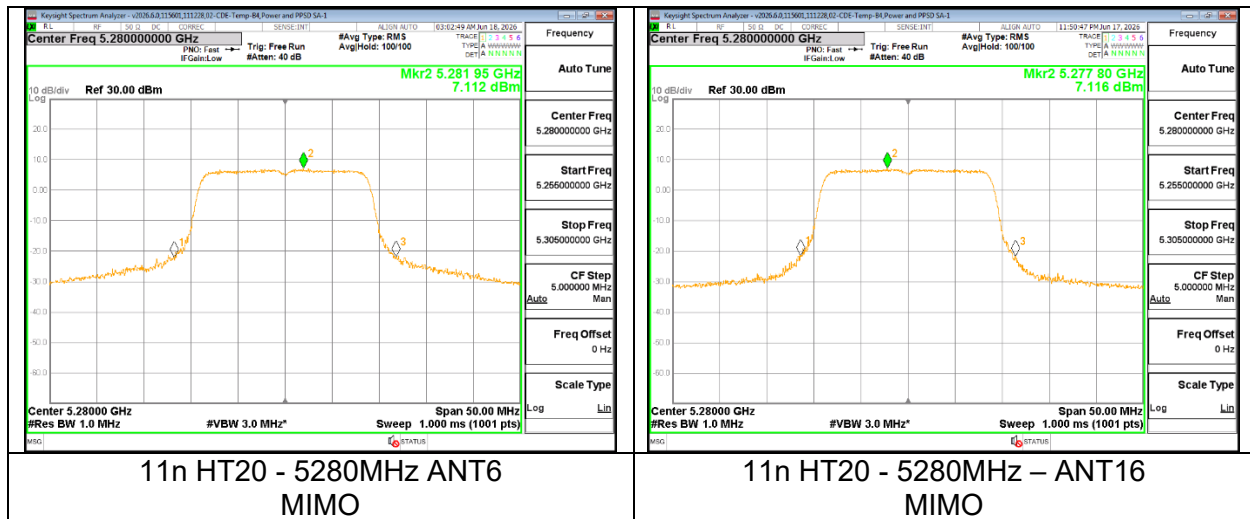
UNII-2A (SISO)	Freq (MHz)	Ch. #	Tone	RU Index	Minimum Bandwidth (MHz)		Power Limit (dBm)		Output Power (Gated) (dBm)		Total Corrected Power		PSD Limit (dBm/MHz)		PSD (dBm/MHz)		Total Corrected PSD		
					ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6
EHT20	5260	52	SU	—	23.12	23.14	24.00	24.00	19.84	19.79	19.84	19.79	11.00	11.00	8.491	8.400	8.491	8.400	
				37	20.84	21.19	24.00	24.00	15.08	14.89	15.08	14.89	11.00	11.00	9.181	9.168	9.181	9.168	
			52T	38	18.79	18.89	23.74	23.76	15.10	14.80	15.10	14.80	11.00	11.00	9.213	8.907	9.213	8.907	
				40	20.93	20.73	24.00	24.00	15.17	14.85	15.17	14.85	11.00	11.00	9.456	9.149	9.456	9.149	
	5300	60	SU	—	23.49	23.36	24.00	24.00	19.95	19.89	19.95	19.89	11.00	11.00	8.515	8.502	8.515	8.502	
				37	21.01	21.29	24.00	24.00	15.05	14.83	15.05	14.83	11.00	11.00	9.384	8.988	9.384	8.988	
			52T	38	19.04	18.98	23.80	23.78	14.98	14.77	14.98	14.77	11.00	11.00	9.106	8.563	9.106	8.563	
				40	20.70	20.82	24.00	24.00	15.13	14.91	15.13	14.91	11.00	11.00	9.553	9.233	9.553	9.233	
	5320	64	SU	—	23.26	23.36	24.00	24.00	18.28	18.40	18.28	18.40	11.00	11.00	7.709	7.726	7.709	7.726	
				37	20.91	21.13	24.00	24.00	14.52	14.49	14.52	14.49	11.00	11.00	8.962	8.796	8.962	8.796	
			52T	38	18.98	18.91	23.78	23.77	14.38	14.40	14.38	14.40	11.00	11.00	8.431	8.466	8.431	8.466	
				40	20.75	20.79	24.00	24.00	14.46	14.43	14.46	14.43	11.00	11.00	8.609	8.505	8.609	8.505	
EHT40	5270	54	SU	—	43.59	44.86	24.00	24.00	19.79	19.75	19.79	19.75	11.00	11.00	5.541	5.203	5.541	5.203	
	5310	62		—	44.66	45.18	24.00	24.00	16.40	15.93	16.40	15.93	11.00	11.00	2.103	1.715	2.103	1.715	
EHT80	5290	58	484+242T	SU	—	82.36	82.36	24.00	24.00	16.29	15.80	16.29	15.80	11.00	11.00	-0.473	-1.063	-0.473	-1.063
					91	82.26	81.98	24.00	24.00	15.85	15.35	15.85	15.35	11.00	11.00	-0.611	-1.263	-0.611	-1.263
					93	63.33	62.99	24.00	24.00	15.89	15.44	15.89	15.44	11.00	11.00	-0.606	-1.150	-0.606	-1.150
					92	82.44	82.60	24.00	24.00	15.84	15.30	15.84	15.30	11.00	11.00	-0.748	-1.339	-0.748	-1.339
EHT160	5250 (Straddle)	50	996+484T	SU	—	163.20	165.00	24.00	24.00	15.87	15.86	15.87	15.86	11.00	11.00	-4.898	-4.441	-4.898	-4.441
					95	170.00	170.67	24.00	24.00	14.87	14.86	14.87	14.86	11.00	11.00	-3.488	-3.579	-3.398	-3.489
					S95	125.42	124.89	24.00	24.00	14.83	14.84	14.83	14.84	11.00	11.00	-4.072	-3.818	-3.982	-3.728
					S94	172.40	172.24	24.00	24.00	14.88	14.85	14.88	14.85	11.00	11.00	-3.156	-3.635	-3.066	-3.545

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

UNII-2A (MIMO CDD)	20MHz		40MHz		80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T	
DCCF (MCS0) (dB)	0	0	0	0	0	0	0.09	
Un- Correlated Gain (dBi)	-1.00							
Correlated Gain (dBi)	1.60							

UNII-1 (MIMO CDD)	
Straddle Channel	
Un- Correlated Gain (dBi)	-2.00
Correlated Gain (dBi)	0.90

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	ANT16			ANT6	ANT16	
EHT20	5260	52	SU	—	22.92	24.00	18.32	18.37	21.36	11.00	6.968	6.992	9.990
				37	20.39	24.00	11.82	11.85	14.85	11.00	5.792	5.860	8.836
			52T	38	18.40	23.65	11.83	11.80	14.83	11.00	5.817	5.759	8.798
				40	20.36	24.00	11.79	11.81	14.81	11.00	5.755	5.783	8.779
	5300	60	SU	—	23.15	24.00	18.39	18.25	21.33	11.00	7.047	6.906	9.987
				37	20.66	24.00	11.78	11.86	14.83	11.00	5.572	5.920	8.760
			52T	38	18.44	23.66	11.77	11.87	14.83	11.00	5.511	5.940	8.741
				40	20.39	24.00	11.76	11.84	14.81	11.00	5.424	5.845	8.650
	5320	64	SU	—	23.04	24.00	17.38	17.29	20.35	11.00	6.112	5.710	8.926
				37	20.52	24.00	11.43	11.46	14.46	11.00	5.265	5.311	8.298
			52T	38	18.32	23.63	11.36	11.40	14.39	11.00	5.049	5.105	8.087
				40	20.17	24.00	11.50	11.52	14.52	11.00	5.334	5.384	8.369
EHT40	5270	54	SU	—	44.38	24.00	19.89	19.85	22.88	11.00	5.908	5.232	8.593
	5310	62		—	43.87	24.00	15.42	15.40	18.42	11.00	1.082	0.956	4.030
EHT80	5290	58	SU	—	82.46	24.00	15.33	15.36	18.36	11.00	-2.735	-2.455	0.418
				91	81.75	24.00	14.88	14.80	17.85	11.00	-1.933	-2.257	0.918
			484+242T	93	62.85	24.00	14.78	14.83	17.82	11.00	-2.307	-1.979	0.870
				92	81.66	24.00	14.92	14.86	17.90	11.00	-1.551	-1.977	1.252
EHT160	5250 (Straddle)	50	SU	—	164.90	24.00	15.27	15.31	18.30	11.00	-5.298	-5.041	-2.157
				95	170.26	24.00	13.89	13.82	16.87	11.00	-5.422	-5.583	-2.401
			996+484T	S95	124.37	24.00	13.77	13.81	16.80	11.00	-5.885	-5.598	-2.639
				S94	171.35	24.00	13.86	13.92	16.90	11.00	-5.531	-5.091	-2.205

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)	-1.90			
ANT16 (dBi)	3.70			

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	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20	5500	100	24.19	23.36	24.00	24.00	18.61	18.75	18.61	18.75	11.00	11.00	7.393	7.475	7.393	7.475
	5580	116	23.25	23.07	24.00	24.00	19.85	19.84	19.85	19.84	11.00	11.00	8.481	8.228	8.481	8.228
	5700	140	23.64	23.29	24.00	24.00	18.28	18.38	18.28	18.38	11.00	11.00	7.061	7.203	7.061	7.203
	5720 (Straddle)	144	17.01	16.85	24.00	24.00	19.86	19.87	19.86	19.87	11.00	11.00	8.946	9.024	8.946	9.024
HT40	5510	102	45.22	45.36	24.00	24.00	16.42	15.98	16.42	15.98	11.00	11.00	1.728	1.343	1.728	1.343
	5550	110	46.06	45.15	24.00	24.00	19.80	19.81	19.80	19.81	11.00	11.00	4.989	5.127	4.989	5.127
	5670	134	45.45	45.10	24.00	24.00	19.38	19.36	19.38	19.36	11.00	11.00	4.786	4.636	4.786	4.636
	5710 (Straddle)	142	27.92	27.91	24.00	24.00	19.83	19.82	19.83	19.82	11.00	11.00	4.990	4.962	4.990	4.962
VHT80	5530	106	81.55	81.47	24.00	24.00	14.77	14.43	14.77	14.43	11.00	11.00	-2.261	-2.691	-2.261	-2.691
	5610	122	81.61	81.67	24.00	24.00	19.76	19.79	19.76	19.79	11.00	11.00	2.115	2.499	2.115	2.499
	5690 (Straddle)	138	45.82	45.72	24.00	24.00	19.77	19.78	19.77	19.78	11.00	11.00	2.360	2.428	2.360	2.428
VHT160	5570	114	169.30	164.60	24.00	24.00	16.39	16.48	16.39	16.48	11.00	11.00	-3.051	-3.020	-3.051	-3.020

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)	1.10			
Correlated Gain (dBi)	3.20			

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	ANT16			ANT6	ANT16	
HT20	5500	100	22.81	24.00	17.42	17.34	20.39	11.00	6.222	6.203	9.223
	5580	116	22.92	24.00	17.88	17.95	20.93	11.00	6.478	6.483	9.491
	5600	120	22.13	24.00	18.20	18.26	21.24	11.00	6.994	7.050	10.032
	5700	140	23.15	24.00	17.19	17.07	20.14	11.00	5.831	5.564	8.710
	5720 (Straddle)	144	16.41	23.15	18.03	17.97	21.01	11.00	6.904	6.842	9.883
HT40	5510	102	43.82	24.00	15.42	15.40	18.42	11.00	0.967	0.812	3.900
	5550	110	44.28	24.00	19.87	19.84	22.87	11.00	4.552	4.439	7.506
	5670	134	44.21	24.00	17.88	17.86	20.88	11.00	3.507	3.064	6.301
	5710 (Straddle)	142	26.94	24.00	19.97	19.91	22.95	11.00	4.667	4.462	7.576
VHT80	5530	106	81.14	24.00	14.37	14.34	17.37	11.00	-3.069	-3.159	-0.103
	5610	122	81.35	24.00	19.77	19.79	22.79	11.00	2.346	2.451	5.409
	5690 (Straddle)	138	45.46	24.00	19.83	19.81	22.83	11.00	2.759	2.468	5.626
VHT160	5570	114	166.10	24.00	15.32	15.28	18.31	11.00	-3.856	-3.992	-0.913

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

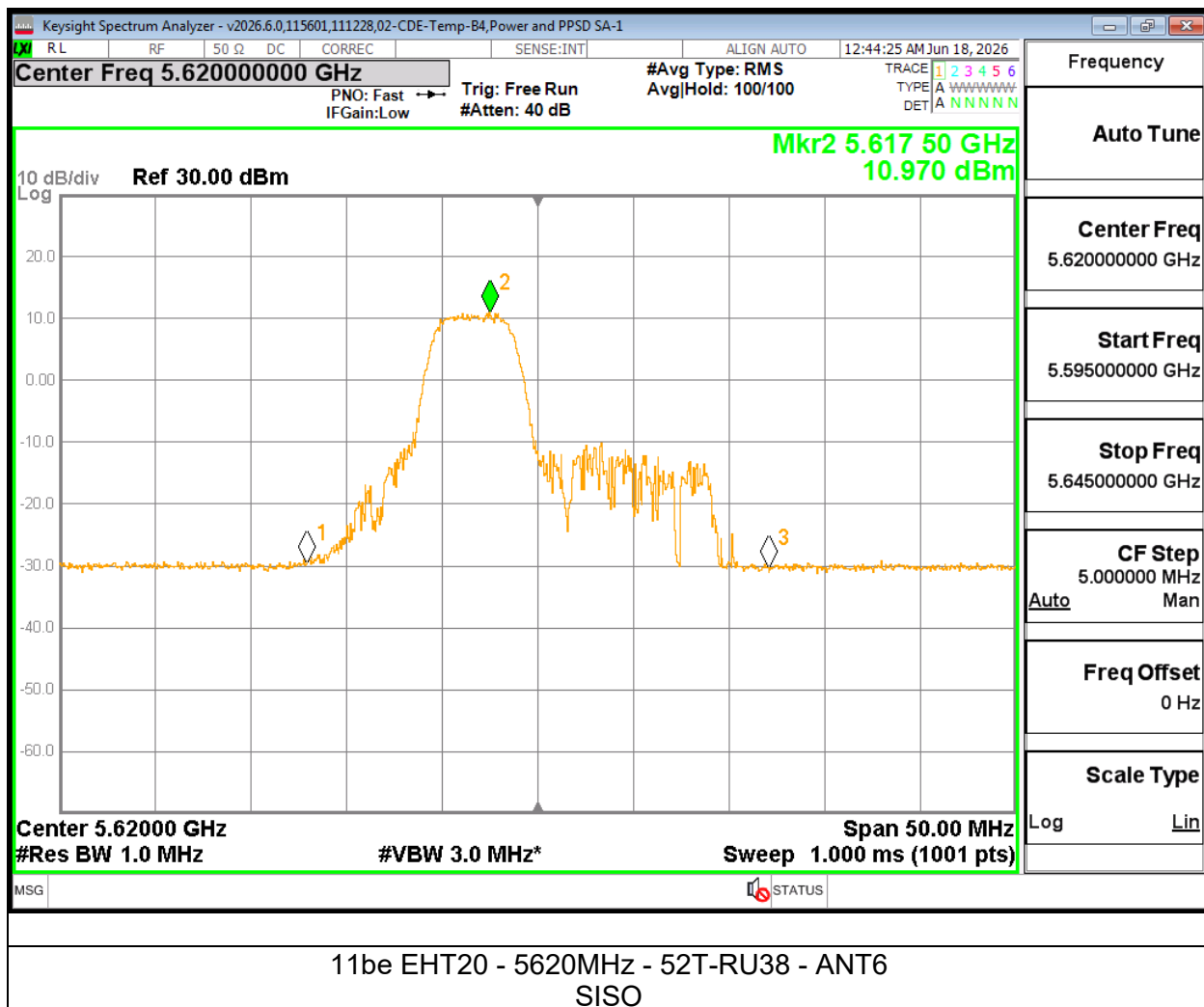
UNII-2C (SISO)	20MHz		40MHz	80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0.09
ANT6 (dBi)	-1.90						
ANT16 (dBi)	3.70						

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	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6
EHT20	5500	100	SU	—	23.39	23.46	24.00	24.00	18.30	18.26	18.30	18.26	11.00	11.00	6.260	6.286	6.260	6.286	
				37	21.24	21.00	24.00	24.00	14.58	14.44	14.58	14.44	11.00	11.00	8.697	8.485	8.697	8.485	
			52T	38	18.97	18.91	23.78	23.77	14.66	14.37	14.66	14.37	11.00	11.00	8.798	8.469	8.798	8.469	
				40	20.68	20.99	24.00	24.00	14.75	14.53	14.75	14.53	11.00	11.00	9.059	8.615	9.059	8.615	
	5580	116	SU	—	23.60	23.27	24.00	24.00	19.96	19.97	19.96	19.97	11.00	11.00	8.941	8.886	8.941	8.886	
				37	20.94	21.42	24.00	24.00	14.87	14.88	14.87	14.88	11.00	11.00	10.783	10.513	10.783	10.513	
			52T	38	18.89	18.96	23.76	23.78	14.86	14.90	14.86	14.90	11.00	11.00	10.829	10.586	10.829	10.586	
				40	20.68	20.64	24.00	24.00	14.89	14.91	14.89	14.91	11.00	11.00	10.953	10.616	10.953	10.616	
	5620	124	SU	—	23.07	23.05	24.00	24.00	19.97	19.85	19.97	19.85	11.00	11.00	9.172	8.895	9.172	8.895	
				37	20.84	21.22	24.00	24.00	15.06	15.15	15.06	15.15	11.00	11.00	10.791	10.858	10.791	10.858	
			52T	38	18.79	18.98	23.74	23.78	15.09	15.10	15.09	15.10	11.00	11.00	10.970	10.852	10.970	10.852	
				40	20.93	20.82	24.00	24.00	15.02	15.18	15.02	15.03	11.00	11.00	10.762	10.632	10.762	10.632	
	5700	140	SU	—	23.45	23.33	24.00	24.00	16.96	16.83	16.96	16.83	11.00	11.00	5.477	5.362	5.477	5.362	
				37	21.47	21.81	24.00	24.00	14.93	14.51	14.93	14.51	11.00	11.00	9.626	9.324	9.626	9.324	
			52T	38	18.54	18.88	23.68	23.76	14.87	14.65	14.87	14.65	11.00	11.00	9.458	8.954	9.458	8.954	
				40	20.41	20.57	24.00	24.00	14.82	14.56	14.82	14.56	11.00	11.00	8.729	8.769	8.729	8.769	
		5720 (Straddle)	144	SU	—	16.86	16.66	23.27	23.22	19.99	19.98	19.99	19.98	11.00	11.00	8.699	8.698	8.699	8.698
					37	15.50	15.47	22.90	22.89	14.92	14.94	14.92	14.94	11.00	11.00	10.747	10.436	10.747	10.436
				52T	38	14.42	14.49	22.59	22.61	14.96	14.95	14.96	14.95	11.00	11.00	10.764	10.525	10.764	10.525
					40	15.26	15.30	22.84	22.85	14.93	14.97	14.93	14.97	11.00	11.00	10.921	10.530	10.921	10.530
EHT40	5510	102	SU	—	44.51	44.32	24.00	24.00	15.93	15.88	15.93	15.88	11.00	11.00	1.005	0.971	1.005	0.971	
	5550	110		—	43.97	44.94	24.00	24.00	19.92	19.93	19.92	19.93	11.00	11.00	4.890	5.086	4.890	5.086	
	5670	134		—	45.43	45.54	24.00	24.00	17.88	17.80	17.88	17.80	11.00	11.00	2.965	2.807	2.965	2.807	
	5710 (Straddle)	142		—	27.49	27.92	24.00	24.00	19.94	19.95	19.94	19.95	11.00	11.00	5.178	5.611	5.178	5.611	
EHT80	5530	106	484+242T	SU	—	82.18	81.81	24.00	24.00	14.78	14.28	14.78	14.28	11.00	11.00	-2.766	-3.050	-2.766	-3.050
				91	82.16	82.64	24.00	24.00	14.30	14.43	14.30	14.43	11.00	11.00	-1.911	-1.600	-1.911	-1.600	
				93	63.16	62.90	24.00	24.00	14.36	14.33	14.36	14.33	11.00	11.00	-1.874	-1.906	-1.874	-1.906	
				92	82.71	82.17	24.00	24.00	14.44	14.39	14.44	14.39	11.00	11.00	-1.574	-1.694	-1.574	-1.694	
	5610	122	484+242T	SU	—	82.16	82.38	24.00	24.00	19.77	19.76	19.77	19.76	11.00	11.00	2.051	1.953	2.051	1.953
				91	82.31	81.89	24.00	24.00	19.84	19.80	19.84	19.80	11.00	11.00	2.890	2.984	2.890	2.984	
				93	63.11	63.05	24.00	24.00	19.81	19.82	19.81	19.82	11.00	11.00	2.900	2.987	2.900	2.987	
				92	82.46	81.69	24.00	24.00	19.88	19.85	19.88	19.85	11.00	11.00	3.566	3.319	3.566	3.319	
	5690 (Straddle)	138	484+242T	SU	—	46.14	46.02	24.00	24.00	19.79	19.78	19.79	19.78	11.00	11.00	2.479	2.360	2.479	2.360
				91	46.30	46.23	24.00	24.00	19.89	19.91	19.89	19.91	11.00	11.00	3.191	3.073	3.191	3.073	
				93	36.69	36.84	24.00	24.00	19.83	19.86	19.83	19.86	11.00	11.00	2.999	3.377	2.999	3.377	
				92	46.12	46.22	24.00	24.00	19.87	19.90	19.87	19.90	11.00	11.00	3.519	3.763	3.519	3.763	
EHT160	5570	114	996+484T	SU	—	166.40	164.70	24.00	24.00	15.78	15.84	15.78	15.84	11.00	11.00	-3.575	-3.528	-3.575	-3.528
				95	170.74	169.30	24.00	24.00	12.43	12.35	12.43	12.35	11.00	11.00	-5.062	-5.436	-4.972	-5.346	
				S95	124.63	124.42	24.00	24.00	12.29	12.27	12.29	12.27	11.00	11.00	-5.835	-6.057	-5.745	-5.967	
				S94	171.16	171.19	24.00	24.00	12.38	12.34	12.38	12.34	11.00	11.00	-5.390	-5.731	-5.300	-5.641	

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

UNII-2C (MIMO CDD)	20MHz		40MHz	80MHz		160MHz	
	SU	52T	SU	SU	484+242T	SU	996+484T
DCCF (MCS0) (dB)	0	0	0	0	0	0	0.09
Un- Correlate d Gain (dBi)	1.10						
Correlate d Gain (dBi)	3.20						

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	ANT16			ANT6	ANT16	
EHT20	5500	100	SU	—	22.70	24.00	17.36	17.17	20.28	11.00	5.714	5.497	8.617
				37	20.79	24.00	11.53	11.43	14.49	11.00	5.744	5.512	8.640
			52T	38	18.37	23.64	11.59	11.49	14.55	11.00	5.792	5.546	8.681
				40	20.29	24.00	11.48	11.56	14.53	11.00	5.540	5.765	8.664
	5580	116	SU	—	23.09	24.00	18.35	18.19	21.28	11.00	6.447	6.193	9.332
				37	20.47	24.00	11.91	11.89	14.91	11.00	6.255	6.014	9.146
			52T	38	18.29	23.62	11.95	11.86	14.92	11.00	6.554	6.159	9.371
				40	20.36	24.00	11.96	11.97	14.98	11.00	6.657	6.701	9.689
	5620	124	SU	—	19.01	23.79	18.22	18.27	21.26	11.00	7.165	7.296	10.241
				37	20.46	24.00	12.17	12.01	15.10	11.00	6.963	6.809	9.897
			52T	38	18.37	23.64	12.16	12.13	15.16	11.00	6.876	6.845	9.871
				40	20.51	24.00	12.15	12.11	15.14	11.00	6.922	6.870	9.906
	5700	140	SU	—	23.53	24.00	16.46	16.33	19.41	11.00	4.685	4.610	7.658
				37	20.45	24.00	11.62	11.60	14.62	11.00	6.059	6.044	9.062
			52T	38	18.27	23.62	11.55	11.51	14.54	11.00	5.916	5.702	8.821
				40	20.43	24.00	11.46	11.53	14.51	11.00	5.556	5.758	8.668
	5720 (Straddle)	144	SU	—	16.48	23.17	18.35	18.45	21.41	11.00	6.512	6.809	9.673
				37	15.54	22.91	11.90	11.92	14.92	11.00	6.159	6.308	9.244
			52T	38	14.09	22.49	11.88	11.95	14.93	11.00	5.998	6.401	9.214
				40	15.25	22.83	11.94	11.93	14.95	11.00	6.352	6.346	9.359
EHT40	5510	102	SU	—	45.60	24.00	15.43	15.38	18.42	11.00	0.816	0.804	3.820
	5550	110		—	44.36	24.00	19.93	19.92	22.94	11.00	5.170	4.828	8.013
	5670	134		—	44.69	24.00	17.27	17.41	20.35	11.00	3.133	3.303	6.229
	5710 (Straddle)	142		—	27.08	24.00	19.94	19.95	22.96	11.00	5.203	5.311	8.268
EHT80	5530	106	SU	—	81.75	24.00	14.42	14.35	17.40	11.00	-2.707	-3.163	0.081
				91	81.98	24.00	13.89	13.87	16.89	11.00	-2.140	-2.242	0.820
			484+242T	93	63.35	24.00	13.79	13.92	16.87	11.00	-2.434	-2.590	0.499
				92	82.13	24.00	13.83	13.77	16.81	11.00	-2.454	-1.999	0.790
	5610	122	SU	—	82.20	24.00	19.77	19.76	22.78	11.00	2.268	2.128	5.209
				91	82.19	24.00	19.80	19.82	22.82	11.00	3.449	3.572	6.521
			484+242T	93	63.09	24.00	19.92	19.85	22.90	11.00	3.739	3.302	6.536
				92	82.33	24.00	19.91	19.86	22.90	11.00	3.608	3.301	6.468
	5690 (Straddle)	138	SU	—	46.13	24.00	19.79	19.78	22.80	11.00	2.617	2.502	5.570
				91	46.19	24.00	19.89	19.83	22.87	11.00	3.806	3.706	6.767
EHT160	5570	114	484+242T	93	36.60	24.00	19.87	19.88	22.89	11.00	3.346	3.351	6.359
				92	45.91	24.00	19.87	19.90	22.90	11.00	3.791	3.561	6.688
			SU	—	164.20	24.00	15.28	15.34	18.32	11.00	-3.797	-3.787	-0.782
				95	170.42	24.00	11.84	11.85	14.86	11.00	-6.401	-6.391	-3.296
EHT160	5570	114	996+484T	S95	124.24	24.00	11.79	11.77	14.79	11.00	-6.659	-6.683	-3.571
				S94	171.13	24.00	11.91	11.90	14.92	11.00	-6.018	-6.208	-3.012

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)	-2.50		
ANT16 (dBi)	2.10		

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	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16
HT20	5745	149	—		30.00	30.00	19.92	19.85	19.92	19.85	30.00	30.00	5.420	5.215	5.420	5.215
	5785	157			30.00	30.00	19.78	19.89	19.78	19.89	30.00	30.00	5.100	5.316	5.100	5.316
	5825	165			30.00	30.00	19.73	19.76	19.73	19.76	30.00	30.00	4.501	4.761	4.501	4.761
HT40	5755	151	—		30.00	30.00	19.87	19.91	19.87	19.91	30.00	30.00	2.048	2.341	2.048	2.341
	5795	159			30.00	30.00	19.84	19.82	19.84	19.82	30.00	30.00	1.931	1.808	1.931	1.808
VHT80	5775	155	—		30.00	30.00	19.87	19.91	19.87	19.91	30.00	30.00	-0.696	-0.684	-0.696	-0.684

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)	-0.20		
Correlated Gain (dBi)	2.50		

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	ANT16			ANT6	ANT16	
HT20	5745	149	--	30.00	19.86	19.94	22.91	30.00	4.974	5.234	8.116
	5785	157		30.00	19.83	19.89	22.87	30.00	4.855	5.026	7.952
	5825	165		30.00	19.79	19.77	22.79	30.00	4.524	4.391	7.468
HT40	5755	151	--	30.00	19.91	19.94	22.94	30.00	2.536	2.608	5.582
	5795	159		30.00	19.85	19.87	22.87	30.00	2.107	2.220	5.174
VHT80	5775	155	--	30.00	19.89	19.83	22.87	30.00	-0.607	-0.825	2.296

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

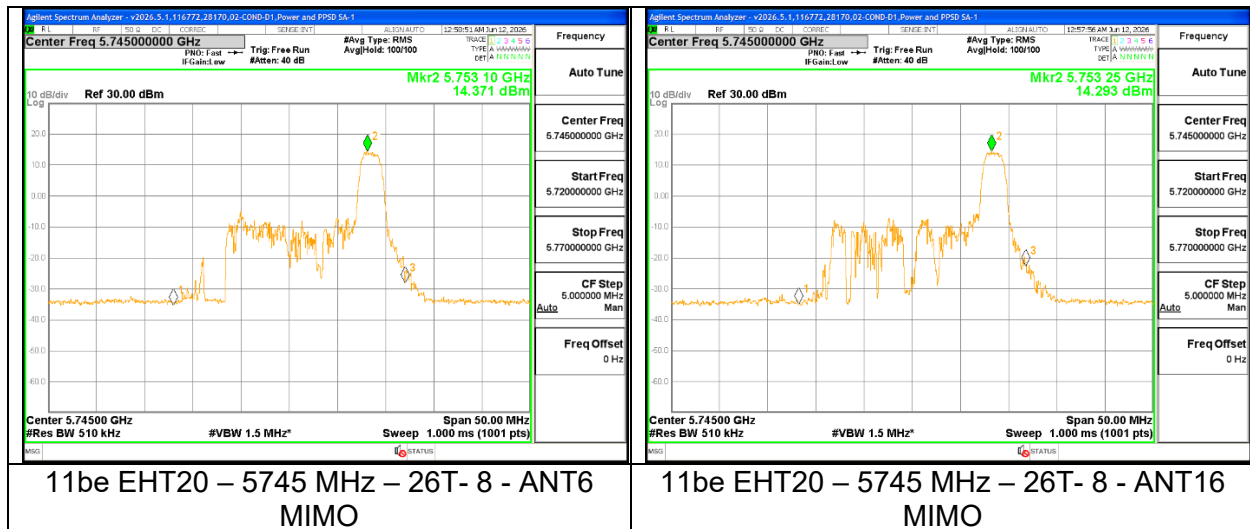
UNII-3 (SISO)	20MHz		40MHz		80MHz
	SU	26T	SU	SU	
DCCF (MCS0) (dB)	0	0	0	0	0.09
ANT6 (dBi)	-2.50				
ANT16 (dBi)	2.10				

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	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6	ANT16	ANT6
EHT20	5745	149	SU	—	—	30.00	30.00	19.89	19.92	19.89	19.92	30.00	30.00	5.962	6.383	5.962	6.383		
				0		30.00	30.00	19.83	19.85	19.83	19.85	30.00	30.00	13.989	14.100	13.989	14.100		
			26T	4		30.00	30.00	19.79	19.86	19.79	19.86	30.00	30.00	13.874	14.154	13.874	14.154		
				8		30.00	30.00	19.94	19.91	19.94	19.91	30.00	30.00	14.542	14.365	14.542	14.365		
	5785	157	SU	—		30.00	30.00	19.85	19.81	19.85	19.81	30.00	30.00	5.623	5.552	5.623	5.552		
				0		30.00	30.00	19.89	19.87	19.89	19.87	30.00	30.00	14.314	14.179	14.314	14.179		
			26T	4		30.00	30.00	19.76	19.79	19.76	19.79	30.00	30.00	13.498	13.989	13.498	13.989		
				8		30.00	30.00	19.84	19.81	19.84	19.81	30.00	30.00	14.034	13.944	14.034	13.944		
	5825	165	SU	—		30.00	30.00	19.79	19.71	19.79	19.71	30.00	30.00	5.772	5.721	5.772	5.721		
				0		30.00	30.00	19.87	19.88	19.87	19.88	30.00	30.00	13.700	13.347	13.700	13.347		
			26T	4		30.00	30.00	19.80	19.78	19.80	19.78	30.00	30.00	13.199	13.120	13.199	13.120		
				8		30.00	30.00	19.82	19.91	19.82	19.91	30.00	30.00	13.340	13.817	13.340	13.817		
	EHT40	5755	151	SU		—	—	30.00	30.00	19.89	19.91	19.89	19.91	30.00	30.00	2.136	2.421	2.136	2.421
		5795	159			—		30.00	30.00	19.87	19.84	19.87	19.84	30.00	30.00	1.994	1.801	1.994	1.801
EHT80	5775	155	SU	—	—	30.00	30.00	19.87	19.84	19.87	19.84	30.00	30.00	0.090	0.070	0.090	0.070		
				91		30.00	30.00	19.89	19.92	19.89	19.92	30.00	30.00	0.795	0.830	0.795	0.830		
			484+242T	93		30.00	30.00	19.85	19.91	19.85	19.91	30.00	30.00	0.077	-0.120	0.077	-0.120		
				92		30.00	30.00	19.87	19.79	19.87	19.79	30.00	30.00	0.684	0.809	0.684	0.809		

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	0.09	
Un- Correlated Gain (dBi)	-0.20					
Correlated Gain (dBi)	2.50					

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	ANT16			ANT6	ANT16	
EHT20	5745	149	SU	—	--	30.00	19.97	19.89	22.94	30.00	5.773	5.680	8.737
				0		30.00	19.87	19.81	22.85	30.00	14.221	14.034	17.139
			26T	4		30.00	19.89	19.71	22.81	30.00	14.235	13.856	17.060
				8		30.00	19.95	19.91	22.94	30.00	14.371	14.293	17.342
	5785	157	SU	—		30.00	19.83	19.89	22.87	30.00	5.472	5.705	8.600
				0		30.00	19.79	19.92	22.87	30.00	14.020	14.334	17.190
			26T	4		30.00	19.77	19.85	22.82	30.00	13.921	14.208	17.077
				8		30.00	19.76	19.83	22.81	30.00	13.886	14.040	16.974
	5825	165	SU	—		30.00	19.86	19.79	22.84	30.00	5.501	5.177	8.352
				0		30.00	19.81	19.88	22.86	30.00	13.319	13.504	16.423
			26T	4		30.00	19.79	19.86	22.84	30.00	13.071	13.364	16.230
				8		30.00	19.89	19.84	22.88	30.00	13.516	13.339	16.439
EHT40	5755	151	SU	--	--	30.00	19.92	19.87	22.91	30.00	2.332	2.137	5.246
	5795	159		--		30.00	19.82	19.78	22.81	30.00	1.955	1.928	4.952
EHT80	5775	155	SU	--	--	30.00	19.86	19.92	22.90	30.00	0.009	0.087	3.058
			484+242T	91		30.00	19.89	19.91	22.91	30.00	0.450	0.800	3.729
				93		30.00	19.72	19.75	22.75	30.00	0.053	0.181	3.218
				92		30.00	19.79	19.77	22.79	30.00	0.347	0.343	3.445

Worst-Case PSD Plot :

10. SETUP PHOTOS

Please refer to 15982152-EP1V1 FCC IC Setup Photos.

11. APPENDIX A – SPOT CHECK EVALUATION

11.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3472, A3713, A3714 and A3715. These models are very similar, with only the following differences.

Model	FCC ID	Feature Difference	Sim Support	Reference Model
A3472	BCG-E9186A	-With FR2 -No LTE B11, B21	eSIM	-
A3713	BCG-E9192A	-Without FR2 -Added LTE B11, B21	eSIM	A3472
A3714	BCG-E9193A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	
A3715	BCG-E9194A	-Without FR2 -No LTE/5GNR B14, B29, B71, B53 -No LTE B11, B21, MSS	pSIM+pSIM	

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. For models without FR2 may have different antenna gains on certain bands. 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 A3713

Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3472	Sub Model: A3713	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9186A	FCC ID : BCG-E9192A			
NII / UNII-1	5.2G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.88	22.76	-0.12	-1.12	Note 1
		HT40 (Ant 16)	MCS7	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	38	5.149446	51.30	50.93	-0.37	-2.70	Note 1
		EHT20 (CDD)	MCS0 26T RU8	Avg RSE (dBuV/m)	Horizontal 1 to 18	48	15.796927	42.11	42.52	0.41	-11.89	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.88	22.73	-0.15	-1.12	Note 1
		HT40 (Ant 16)	MCS7	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	62	5.350075	51.24	48.48	-2.76	-2.76	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Vertical 1 to 18	58	12.483474	39.77	39.36	-0.41	-14.23	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	142	5.710	22.96	22.91	-0.05	-1.04	Note 1
		EHT40 (Ant 16)	MCS11 SU	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	102	5.468064	63.70	63.60	-0.10	-4.50	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Vertical 1 to 18	122	12.375193	40.60	40.11	-0.49	-13.40	Note 1
NII / UNII-3	5.8G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	151	5.755	22.94	22.96	0.02	-7.06	Note 1
		VHT80 (CDD)	MCS11	Pk Radiated Bandedge (dBuV/m)	Vertical Low Bandedge	155L	5.650217	-31.46	-32.56	-1.10	-4.62	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Horizontal 1 to 18	155	12.438198	40.60	40.05	-0.55	-13.40	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 A3714

A3714 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3472	Sub Model: A3714	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9186A	FCC ID : BCG-E9193A			
NII / UNII-1	5.2G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.88	22.90	0.02	-1.12	Note 1
		HT40 (Ant 16)	MCS7	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	38	5.149446	51.30	49.52	-1.78	-2.70	Note 1
		EHT20 (CDD)	MCS0 26T RU8	Avg RSE (dBuV/m)	Horizontal 1 to 18	48	15.796927	42.11	42.40	0.29	-11.89	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.88	22.82	-0.06	-1.12	Note 1
		HT40 (Ant 16)	MCS7	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	62	5.350075	51.24	48.42	-2.82	-2.76	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Vertical 1 to 18	58	12.483474	39.77	39.17	-0.60	-14.23	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	142	5.710	22.96	22.90	-0.06	-1.04	Note 1
		EHT40 (Ant 16)	MCS11 SU	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	102	5.468064	63.70	66.24	2.54	-4.50	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Vertical 1 to 18	122	12.375193	40.60	39.28	-1.32	-13.40	Note 1
NII / UNII-3	5.8G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	151	5.755	22.94	22.92	-0.02	-7.06	Note 1
		VHT80 (CDD)	MCS11	Pk Radiated Bandedge (dBuV/m)	Vertical Low Bandedge	155L	5.650217	-31.46	-31.49	-0.03	-4.62	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Horizontal 1 to 18	155	12.438198	40.60	39.09	-1.51	-13.40	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 A3715

A3715 SPOT CHECK RESULTS												
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate / Tone / RU	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3472	Sub Model: A3715	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9186A	FCC ID : BCG-E9194A			
NII / UNII-1	5.2G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	46	5.230	22.88	22.80	-0.08	-1.12	Note 1
		HT40 (Ant 16)	MCS7	Avg Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	38	5.149446	51.30	51.74	0.44	-2.70	Note 1
		EHT20 (CDD)	MCS0 26T RU8	Avg RSE (dBuV/m)	Horizontal 1 to 18	48	15.796927	42.11	42.57	0.46	-11.89	Note 1
NII / UNII-2a	5.3G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	54	5.270	22.88	22.92	0.04	-1.12	Note 1
		HT40 (Ant 16)	MCS7	Avg Radiated Bandedge (dBuV/m)	Horizontal High Bandedge	62	5.350075	51.24	49.07	-2.17	-2.76	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Vertical 1 to 18	58	12.483474	39.77	39.56	-0.21	-14.23	Note 1
NII / UNII-2c	5.6G	EHT40 (CDD)	MCS0 SU	Avg Power (dBm)	Fundamental	142	5.710	22.96	22.92	-0.04	-1.04	Note 1
		EHT40 (Ant 16)	MCS11 SU	Pk Radiated Bandedge (dBuV/m)	Horizontal Low Bandedge	102	5.468064	63.70	66.23	2.53	-4.50	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Vertical 1 to 18	122	12.375193	40.60	39.48	-1.12	-13.40	Note 1
NII / UNII-3	5.8G	HT40 (CDD)	MCS0	Avg Power (dBm)	Fundamental	151	5.755	22.94	22.88	-0.06	-7.06	Note 1
		VHT80 (CDD)	MCS11	Pk Radiated Bandedge (dBuV/m)	Vertical Low Bandedge	155L	5.650217	-31.46	-31.41	0.05	-4.62	Note 1
		EHT80 (CDD)	MCS0 484+242T RU93	Avg RSE (dBuV/m)	Horizontal 1 to 18	155	12.438198	40.60	39.57	-1.03	-13.40	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.

END OF REPORT