

TEST REPORT

Report Number: 14982484-E10V7

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

Model : A3081

Brand : APPLE

FCC ID : BCG-E8688A

EUT Description : SMARTPHONE

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

Date Of Issue:

2024/08/27

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024/07/15	Initial Review	Francisco Guarnero
V2	2024/07/19	Addressed TCB Comments in sections 3,6,6.5,and 8.	Francisco Guarnero
V3	2024/08/01	Addressed TCB Comments in sections 6.6, 8, 9.3, 9.4, 9.5, 9.7	Francisco Guarnero
V4	2024/08/08	Addressed addition Feedback	Francisco Guarnero
V5	2024/08/14	Corrections in sections 9.6.2 and 9.6.13 Updated section 2, 9.2 and 9.3 to identify the 320MHz limit for emissions bandwidths	Francisco Guarnero
V6	2024/08/23	Updated Section 2, 9.2, 9.3 statements regarding limit for emissions bandwidths Updated Section 10 to add set up diagram	Tony Li
V7	2024/08/27	Updated Section 10 to add set up diagram	Tony Li

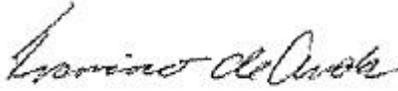
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1. ATTESTATION OF TEST RESULTS

Applicant Name and Address	APPLE INC. 1 APPLE PARK WAY CUPERTINO, CA 95014, U.S.A.	
Model	A3081	
Brand	APPLE	
FCC ID	BCG-E8688A	
EUT Description	SMARTPHONE	
Serial Number	C07H1B0003R0000FGT (CONDUCTED) V7QCNQFGF0, WXWQLPF6GQ (Radiated)	
Sample Receipt Date	2024/01/18	
Date Tested	2024/03/12 to 2024/08/12	
Applicable Standards	CFR 47 Part 15 Subpart E	
Test Results	COMPLIES	
<p>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.</p> <p>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.</p> <p>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. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.</p>		
Approved & Released By:	Prepared & Reviewed By:	
		
Francisco de Anda Staff Engineer UL Verification Services, Inc.	Francisco Guarnero Senior Test Engineer 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	Comment
Duty Cycle	---	Reporting purposes only	ANSI C63.10 Section 12.2
99% BW	§15.407 (a) (11) KDB 987594 D03 v02 Q18	Compliant	ANSI C63.10 Section 6.9.3
26dB BW			ANSI C63.10 Section 6.9.3
Output Power EIRP	§15.407 (a) (7), (8)	Compliant	Dual Client
PSD EIRP	§15.407 (a) (7), (8)	Compliant	Dual Client
Emissions outside 5.925-7.125 GHz band	§15.407 (b) (6)	Compliant	None
Emissions within 5.925-7.125 GHz Band (Emissions Mask)	§15.407 (b) (7)	Compliant	None
Unwanted emissions in restricted bands	§15.205	Compliant	None
Radiated Spurious Emissions	§15.209	Compliant	None
AC Mains Conducted Emissions	§15.207	Compliant	None

3. TEST METHODOLOGY

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

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- FCC KDB 987594 D01 General Requirements v02r02
- FCC KDB 987594 D02 EMC Measurement v02r01
- KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

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
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538 USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538 USA			
<input checked="" type="checkbox"/>	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) 1.300 dB (PK)
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 db
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 db
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 db
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 db
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 db
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 db
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 db

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

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

This report covers 6E 802.11ax and 802.11be Wifi radio.

6.1.1. EUT DEVICE CLASS

Dual Client (6CD)	U-NII Bands of Operation			
	5	6	7	8
Indoor Client	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Standard Client	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum EIRP output power as follows:

6.2.1. LP

UNII-5 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-5 Band, 1TX			
5955-6415	802.11be EHT20	8.74	7.48
5965-6405	802.11be EHT40	11.77	15.03
5985-6385	802.11be EHT80	14.69	29.44
6025-6345	802.11be EHT160	16.81	47.97
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	6.04	4.02
5955-6415	802.11be EHT20 SDM	8.87	7.71
5965-6405	802.11be EHT40 CDD	9.03	8.00
5965-6405	802.11be EHT40 SDM	11.90	15.49
5985-6385	802.11be EHT80 CDD	12.05	16.03
5985-6385	802.11be EHT80 SDM	14.94	31.19
6025-6345	802.11be EHT160 CDD	14.29	26.85
6025-6345	802.11be EHT160 SDM	17.23	52.84

UNII-6 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-6 Band, 1TX			
6435 - 6515	802.11be EHT20	8.49	7.06
6445 - 6525	802.11be EHT40	11.38	13.74
6465	802.11be ETH80	14.39	27.48
6505	802.11be ETH160, Straddle Channel	16.65	46.24
UNII-6 band, 2TX			
6435 - 6515	802.11be EHT20 CDD	5.81	3.81
6435 - 6515	802.11be EHT20 SDM	8.61	7.26
6445 - 6525	802.11be EHT40 CDD	8.78	7.55
6445 - 6525	802.11be EHT40 SDM	11.80	15.14
6465	802.11be EHT80 CDD	11.77	15.03
6465	802.11be EHT80 SDM	14.56	28.58
6505	802.11be EHT160 CDD Straddle	14.05	25.41
6505	802.11be EHT160 SDM Straddle	17.07	50.93

UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535 - 6875	802.11be EHT20	8.70	7.41
6565 - 6845	802.11be EHT40	11.74	14.93
6545 - 6865	802.11be EHT80	14.70	29.51
6665 - 6825	802.11be ETH160	16.92	49.20
UNII-7 Band 2TX			
6535-6875	802.11be ETH20 CDD	5.46	3.52
6535-6875	802.11be EHT20 SDM	8.57	7.19
6565-6845	802.11be EHT40 CDD	8.49	7.06
6565-6845	802.11be EHT40 SDM	11.50	14.13
6545-6865	802.11be EHT80 CDD	11.73	14.89
6545-6865	802.11be EHT80 SDM	14.66	29.24
6665-6825	802.11be EHT160 CDD	13.78	23.88
6665-6825	802.11be EHT160 SDM	16.79	47.75

UNII-8 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-8 Band 1TX			
6895-7115	802.11be EHT20	8.73	7.46
6885-7085	802.11be EHT40	11.72	14.86
6945-7025	802.11be EHT80	14.68	29.38
6985	802.11be EHT160	16.89	48.87
UNII-8 Band 2TX			
6895-7115	802.11be EHT20 CDD	5.54	3.58
6895-7115	802.11be EHT20 SDM	8.47	7.03
6885-7085	802.11be EHT40 CDD	8.55	7.16
6885-7085	802.11be EHT40 SDM	11.47	14.03
6945-7025	802.11be EHT80 CDD	11.47	14.03
6945-7025	802.11be EHT80 SDM	14.17	26.12
6985	802.11be EHT160 CDD	13.75	23.71
6985	802.11be EHT160 SDM	16.78	47.64

6.2.2. SP

UNII-5 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-5 Band, 1TX			
5955-6415	802.11be EHT20	19.75	94.41
5965-6405	802.11be EHT40	19.70	93.33
5985-6385	802.11be EHT80	19.76	94.62
6025-6345	802.11be EHT160	19.78	95.06
UNII-5 Band, 2TX			
5955-6415	802.11be EHT20 CDD	21.64	145.88
5955-6415	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
5965-6405	802.11be EHT40 CDD	21.53	142.23
5955-6405	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
5985-6385	802.11be EHT80 CDD	21.60	144.54
5985-6385	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6025-6345	802.11be EHT160 CDD	21.63	145.55
6025-6345	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
UNII-7 Band 1TX			
6535-6855	802.11be EHT20	17.91	61.80
6565-6845	802.11be EHT40	17.97	62.66
6625-6785	802.11be EHT80	17.97	62.66
6665	802.11be EHT160	17.94	62.23
UNII-7 Band 2TX			
6535-6855	802.11be EHT20 CDD	20.52	112.72
6535-6855	802.11be EHT20 SDM	Covered by 802.11be EHT20 CDD	
6565-6845	802.11be EHT40 CDD	20.53	112.98
6565-6845	802.11be EHT40 SDM	Covered by 802.11be EHT40 CDD	
6625-6785	802.11be EHT80 CDD	20.50	112.20
6625-6785	802.11be EHT80 SDM	Covered by 802.11be EHT80 CDD	
6665	802.11be EHT160 CDD	20.49	111.94
6665	802.11be EHT160 SDM	Covered by 802.11be EHT160 CDD	

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antennas gain and type, cable loss as provided by the manufacturer' are as follows:

Antenna Type: IFA

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	0.3	-2.60	-0.91	1.98
	Sub-band 2 (6115 - 6255)	-0.50	-2.20	-1.27	1.70
	Sub-band 3 (6275 - 6415)	0.30	-2.40	-0.84	2.06
6425 - 6525 UNII-6	N/A	-0.50	-2.50	-1.39	1.57
UNII-6/7 (Straddle Channel)	N/A	-0.50	-1.90	-1.14	1.84
6525 - 6875 UNII-7	N/A	-1.00	-1.90	-1.43	1.57
UNII-7/8 (Straddle Channel)	N/A	-1.00	-1.90	-1.43	1.57
6875 - 7125 UNII-8	N/A	-1.50	-3.60	-2.42	0.52

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dB)	Antenna 5 (dB)
5925-6105	3.20	2.98
6105-6265	3.20	2.98
6265-6425	3.20	2.98
6425-6525	3.20	2.98
6525-6875	3.20	2.98
6875-7125	3.20	2.98

The SMA 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 installed during testing was 27_20_111_38

6.5. WORST-CASE CONFIGURATION AND MODE

This device is classified as dual client and programmed with two output power levels: indoor client mode (LP) & standard client mode (SP).

For RF conducted tests, indoor client mode has been tested with SISO and 2TX CDD and SDM MIMO modes; Standard client mode was done with SISO and 2TX CDD modes as it has same output power levels in 2TX CDD and SDM modes and 2TX CDD mode was set for all antenna port tests after investigation.

The 802.11a mode 20MHz covered by the 802.11be mode since both have the same power.

Radiated was performed at the higher of the LP and SP power levels. The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y (Landscape) orientation was worst-case orientation for ANT6, ANT5 and 2TX.

With same power on Full RU and SU higher data rate, investigations were performed on both for band edge to determine the worst case, and SU mode was determined to be the worst case. Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. There were no emissions found below 30MHz within 20dB of the limit.

For radiated harmonics spurious below 1GHz, 1-18GHz L/M/H channels, 18-26GHz, 26-40GHz and power line conducted emissions were performed with the EUT set at the 2TX CDD mode among the CDD/SDM modes and 2TX EHT mode with power setting equal or higher than SISO modes as worst-case scenario.

For radiated band edge test, all test modes have been investigated with power setting equal or higher than conducted SISO modes as the worst-case scenario.

Below 1GHz tests were performed with EUT connected to AC power adapter as the worst case; and for above 1GHz tests, the worst-case configuration reported was with EUT only. For AC line conducted emission, test was investigated with AC power adapter and with laptop.

For conducted testing - all tests perform on both SU (highest output power) and lowest tones (highest PSD reading).

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. For the radiated band edge on UNII-5 (low channel) & UNII-8 (high channel), following are the worst-case data rates set for test:

802.11be EHT20/EHT40/EHT80/EHT160 Partial RU Tones and SU modes: MCS0 & MCS11 (report MCS11 only as worst-case mode).

802.11be EHT20 Channel 233: supports SU Mode only per Client.

Note: ANT1 and ANT2 indicated in the test result sections are representative of AN6 and ANT5, respectively.

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.

For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

After the investigation, we found that the worst case of power and PSD modes for full testing as table shown below, in addition we were also spot-check for Full RU and the rest of Partial RU modes on radiated bandedge, conducted emissions mask, and radiated spurious emissions.

6.5.1. LP

BW (MHz)	Tone (T)	RU Index	RU Index (Chipset Support only)	Worst Case Tone (UNII-5)		Worst Case Tone (UNII-6)		Worst Case Tone (UNII-7)		Worst Case Tone (UNII-8)	
				Highest Power	Highest PSD	Highest Power	Highest PSD	Highest Power	Highest PSD	Highest Power	Highest PSD
20	26	0 ~ 8	0 ~ 8						X		
	52	37 ~ 40	37 ~ 40								
	52 + 26	70 ~ 81	70, 71, 72								
	106	53 ~ 54	53 ~ 54								
	106 + 26	82 ~ 89	82, 83		X		X				X
	242	61	61								
	SU	--	--	X		X		X		X	
40	26	0 ~ 17	0 ~ 17								
	52	37 ~ 44	37 ~ 44								
	52 + 26	70 ~ 81	70, 72, 72, 73, 74, 75								
	106	53 ~ 56	53 ~ 56								
	106 + 26	82 ~ 89	82, 83, 84, 85		X		X		X		X
	242	61 ~ 61	61 ~ 62								
	484	65	65								
	SU	--	--	X		X		X		X	
80	26	0 ~ 36	0 ~ 36								
	52	37 ~ 52	37 ~ 52		X		X		X		
	52 + 26	70 ~ 81	71, 72, 73, 74, 77, 78, 79, 80								
	106	53 ~ 60	53 ~ 60								
	106 + 26	82 ~ 89	82, 85, 86, 89								
	242	61 ~ 64	61 ~ 64								
	484	65 ~ 66	65 ~ 66								X
	484 + 242	90 ~ 93	90, 91, 92, 93								
		996	67	67							
	SU	--	--	X		X		X		X	
160	26	0 ~ S36	0 ~ S36								
	52	37 ~ S52	37 ~ S52								
	52 + 26	70 ~ S81	sb0: 71, 72, 73, 74, 77, 78, 79, 80 sb1: 71, 72, 73, 74, 77, 78, 79, 80								
	106	53 ~ S60	53 ~ S60								
	106 + 26	82 ~ 89	82, 85, 86, 89								
	242	61 ~ S64	61 ~ S64								
	484	65 ~ S66	65 ~ S66		X		X		X		X
	484 + 242	90 ~ S93	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93								
		996	67 ~ S67	67 ~ S67							
		996 + 484	sb0: 94, 95 sb1: 94, 95	sb0: 94, 95 sb1: 94, 95							
		996 + 484 + 242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99							
		996x2	S68	S68							
	SU	--	--	X		X		X		X	

6.5.2. SP

BW (MHz)	Tone (T)	RU Index	RU Index from Chipset support	Worst Case Tone (UNII-5)		Worst Case Tone (UNII-7)	
				Power	PSD	Power	PSD
20	26	0~8	0~8				
	52	37~40	37~40		X		X
	52+26	70~81	70, 71, 72				
	106	53~54	53~54				
	106+26	82~89	82, 83				
	242	61	61				
	SU	--	--		X		X
40	26	0~17	0~17				
	52	37~44	37~44				
	52+26	70~81	70, 72, 72, 73, 74, 75				
	106	53~56	53~56				
	106+26	82~89	82, 83, 84, 85				
	242	61~61	61~62		X		X
	484	65	65				
SU	--	--		X		X	
80	26	0~36	0~36				
	52	37~52	37~52				
	52+26	70~81	71,72,73,74,77,78,79,80				
	106	53~60	53~60				
	106+26	82~89	82, 85, 86, 89				
	242	61~64	61~64		X		X
	484	65~66	65~66				
	484+242	90, 91, 92, 93	90, 91, 92, 93				
	996	67	67				
SU	--	--		X		X	
160	26	0~S36	0~S36				
	52	37~S52	37~S52				
	52+26	70~S81	sb0: 71,72,73,74,77,78,79,80 sb1: 71,72,73,74,77,78,79,80				
	106	53~S60	53~S60				
	106+26	82~89	82, 85, 86, 89				
	242	61~S64	61~S64		X		X
	484	65~S66	65~S66				
	484+242	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93	sb0: 90, 91, 92, 93 sb1: 90, 91, 92, 93				
	996	67~S67	67~S67				
	996+484	sb0: 94, 95 sb1: 94, 95	sb0: 94, 95 sb1: 94, 95				
	996+484+242	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99	sb0: 96, 97, 98, 99 sb1: 96, 97, 98, 99				
	996x2	S68	S68				
	SU	--	--		X		X

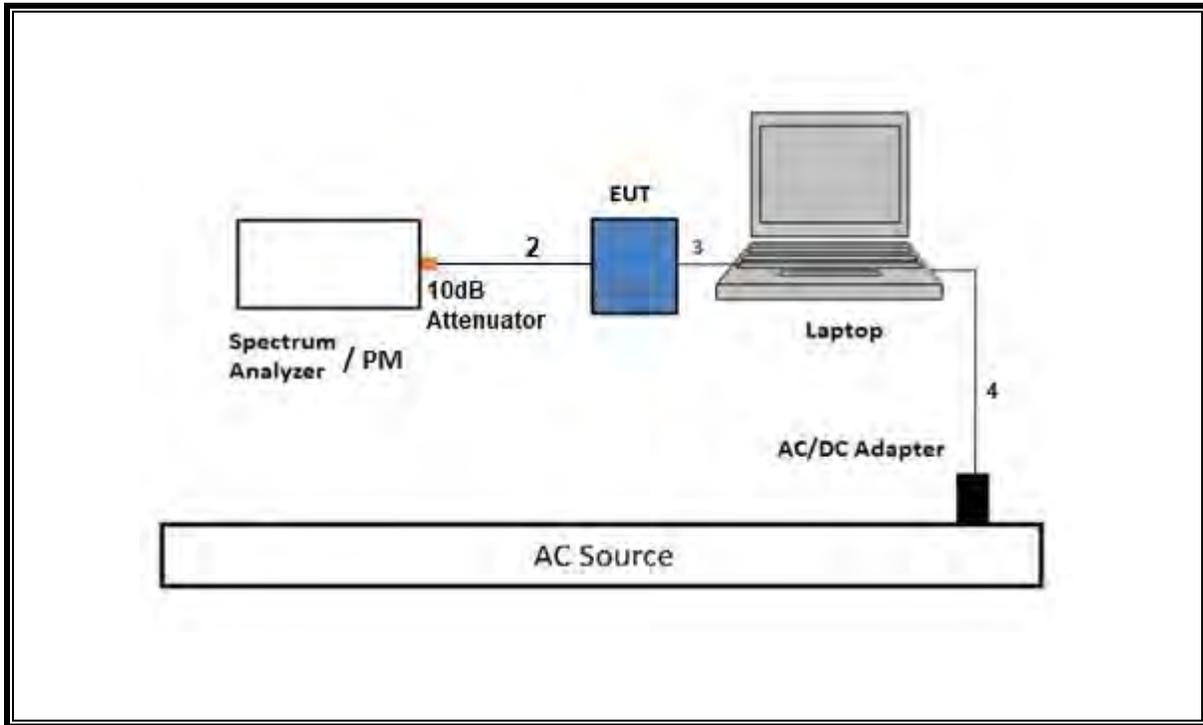
6.6. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
Laptop	Apple	Macbook Pro	C02VD7SAHV22	BCGA1708		
Laptop AC/DC adapter	Liteon Technology	A1424	NSW25679	DoC		
EUT AC/DC adapter	Apple	A1720	C3D8417A7R93KVPA8	DoC		
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	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Shielded	0.2	To Conducted Switch Box
3	USB-C	1	USB-C	Shielded	1.0	N/A
4	AC	1	AC	Un-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	Un-shielded	2	N/A
2	USB	1	USB-C	Shielded	1	N/A

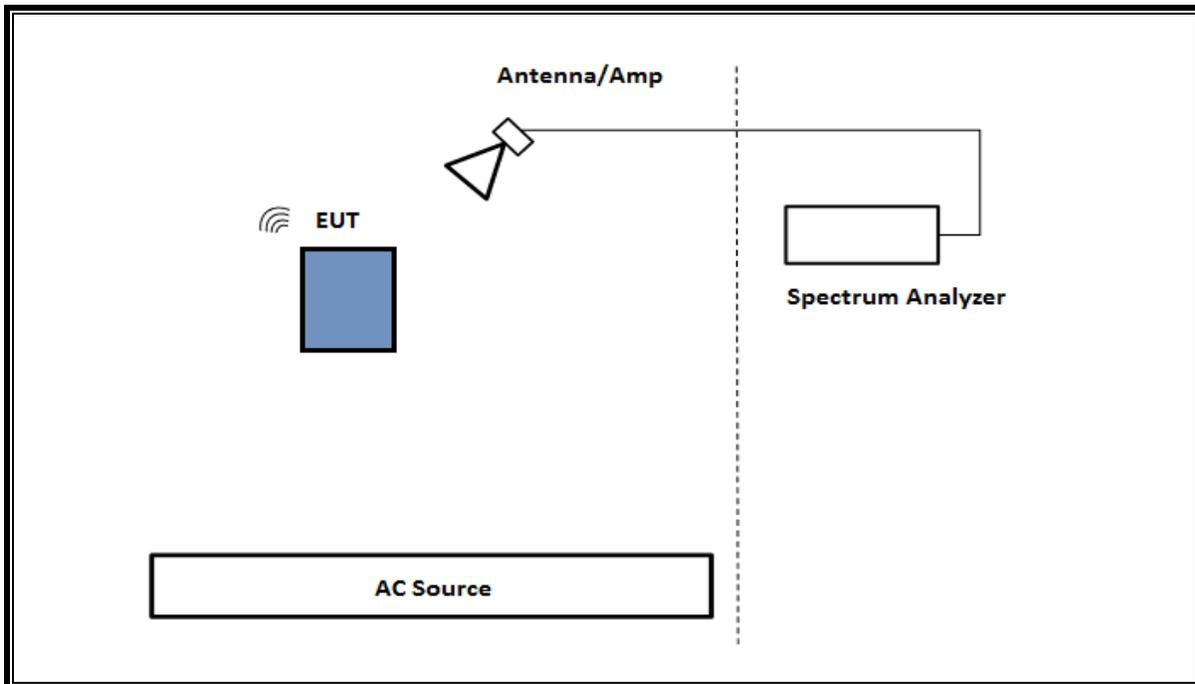
TEST SETUP

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

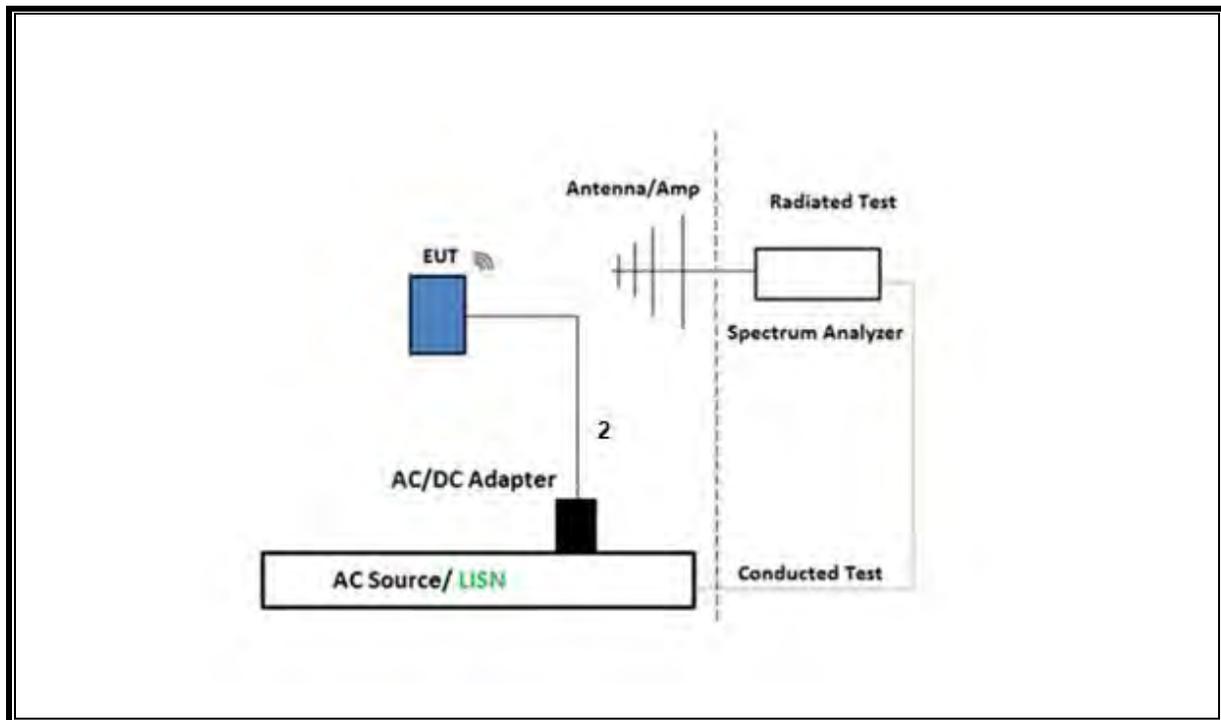
SETUP DIAGRAM FOR CONDUCTED TESTS



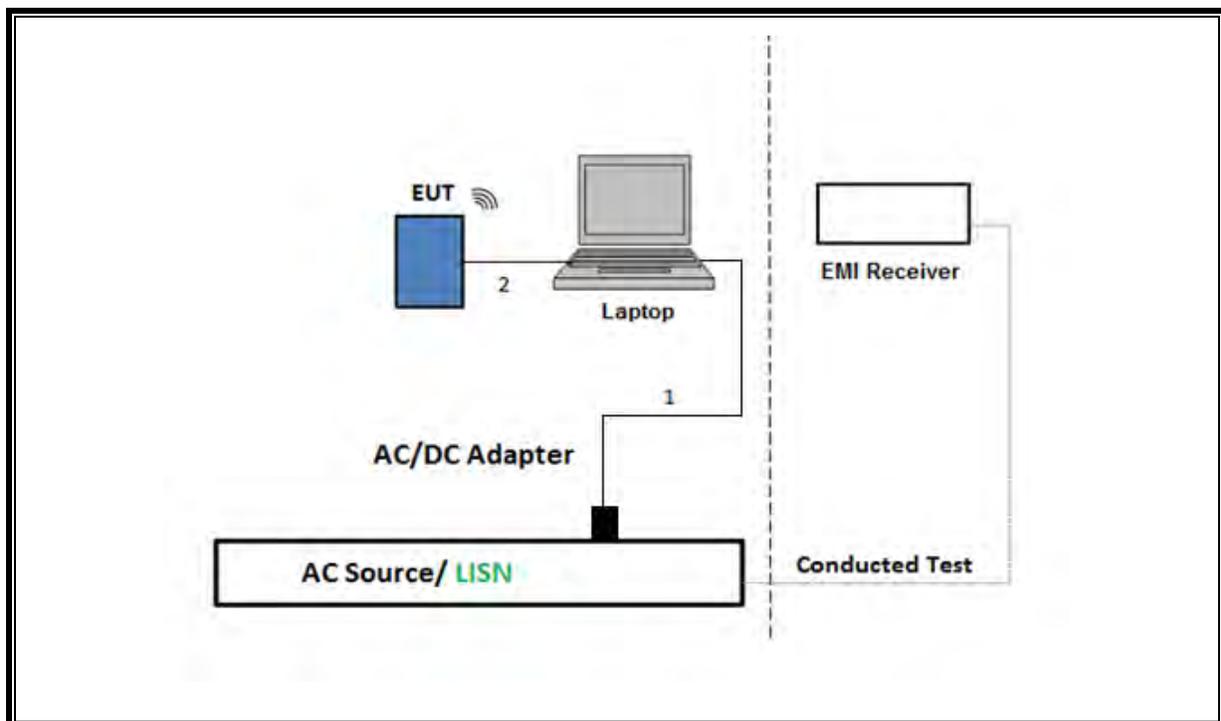
SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz (1 to 40GHz)



SETUP DIAGRAM FOR RADIATED TESTS 30-1000MHz and AC LINE CONDUCTED TEST



TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION



7. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.

99% Occupied Bandwidth: KDB 789033 D02 v02r01, Section II-D

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.3.b (Method PM-G).

Power Spectral Density (PSD): KDB 789033 D02 v02r01, Section F

Spurious emissions within 5.925-7.125 GHz Band (Emissions Mask): KDB 987594 D02 EMC Measurement Section II-J

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.3, G.4, and G.5.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10-2013 Section 6.4

8. TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	ID Num	Cal Due
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	191428	2025/2/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	200785	2024/10/31
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	230878	2025/5/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2025/2/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206805	2024/7/31
RF Filter Box, 1-18GHz, 7 port Simplified	UL-FR1	F3A, 3Amplifier, Rats3 simplified version	243707	2025/2/22
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169927	2025/2/28
Antenna, Horn 1-18GHz	ETS-Lindgren (Cedar Park, Texas)	3117	206805	2024/7/31
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223459	2025/2/28
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226672	2026/2/28
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231876	2025/4/30
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201502	2025/2/28
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	224378	2024/10/31
Amplifier 9 KHz - 1 GHz	SONOMA INSTRUMENT	310N	224490	2024/12/3
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201498	2025/2/28
RF Filter Box, 1-18GHz, 17 Ports	RF Filter Box, 1-18GHz, 17 Ports	RATS 2	225575	2025/4/27/
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	81139	2024/8/31
Link File, RF Amplifier Assembly, 18-26.5GHz, 60dB Gain	AMPLICAL	AMP18G26.5-60	220194	2024/8/31
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	81105	2024/8/31
RF Amplifier Assembly, 26-40GHz, 65dB Gain	AMPLICAL	AMP26G40-65	221834	2025/3/31
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO-METRICS	EM-6871	170014	2024/08/31
Antenna, Passive Loop 100kHz to 30MHz	ELECTRO-METRICS	EM-6872	170016	2024/08/31

Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90731	2025/01/31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	80120	2025/01/31
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90719	2025/01/31
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90389	2025/01/31
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178557	Verified Before Use
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	178558	Verified Before Use
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2025/01/31
Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer	Keysight Technologies Inc	N9030A	80400	2025/02/02
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	125178	2025/01/31
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	222071	2024/11/30
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80396	2025/2/28
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	81188	2025/1/31

AC Line Conducted				
Description	Manufacturer	Model	ID Num	Cal Due
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	93091	2025/02/28
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175765	2025/01/31
Transient Limiter	TE	TBFL1	207996	2024/08/31
UL AUTOMATION SOFTWARE				
Radiated Software	UL	UL EMC	Ver 9.5, May 1, 2023	
Conducted Software	UL	UL EMC	2023.2.23	
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023	

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 789033 Zero-Span Spectrum Analyzer Method.

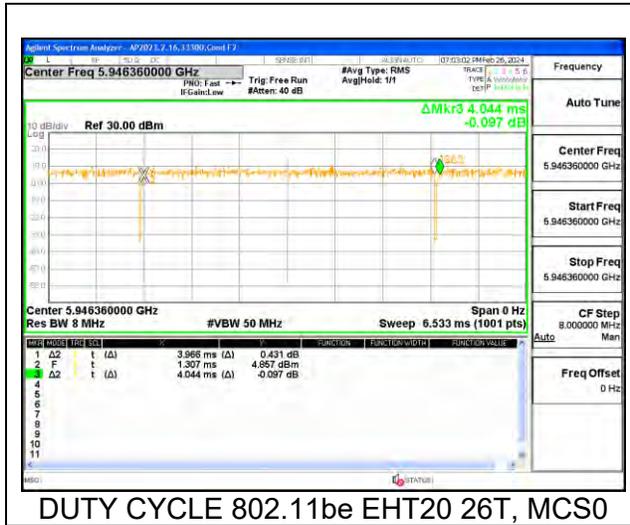
ON TIME AND DUTY CYCLE RESULTS

Mode	Tone (T)	Data Rate (Mbps)	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
EHT20	SU	MCS0	1.577	1.597	0.9875	98.75%	0.00	0.010
		MCS11	0.161	0.180	0.8917	89.17%	0.50	6.231
	(106+26)T	MCS0	3.547	3.567	0.9944	99.44%	0.00	0.010
		MCS11	0.263	0.285	0.9241	92.41%	0.34	3.801
	26T	MCS0	3.966	4.044	0.9807	98.07%	0.00	0.010
	52T	MCS0	3.791	3.856	0.9831	98.31%	0.00	0.010
EHT40	SU	MCS0	1.560	1.584	0.9847	98.47%	0.00	0.010
		MCS11	0.144	0.178	0.8058	80.58%	0.94	6.964
	(106+26)T	MCS0	3.514	3.584	0.9805	98.05%	0.00	0.010
		MCS11	0.264	0.301	0.8768	87.68%	0.57	3.790
	242T	MCS0	3.041	3.063	0.9928	99.28%	0.00	0.010
		MCS11	0.234	0.256	0.9131	91.31%	0.39	4.275
EHT80	SU	MCS0	1.491	1.511	0.9868	98.68%	0.00	0.010
		MCS11	0.154	0.175	0.8838	88.38%	0.54	6.477
	52T	MCS0	3.794	3.854	0.9844	98.44%	0.00	0.010
		MCS11	0.277	0.316	0.8749	87.49%	0.58	3.615
	242T	MCS0	3.043	3.080	0.9880	98.80%	0.00	0.010
		MCS11	0.235	0.273	0.8613	86.13%	0.65	4.252
EHT160	SU	MCS0	3.990	4.022	0.9920	99.20%	0.00	0.010
		MCS11	0.293	0.315	0.9278	92.78%	0.33	3.417
	484T	MCS0	0.998	1.040	0.9596	95.96%	0.18	1.002
		MCS11	0.126	0.146	0.8626	86.26%	0.64	7.962
	242T	MCS0	3.990	4.029	0.9903	99.03%	0.00	0.010
		MCS11	0.293	0.315	0.9307	93.07%	0.31	3.416

Mode	Tone (T)	Data Rate (Mbps)	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
EHT20 SDM	SU	MCS0	778.900	798.400	0.9756	97.56%	0.11	0.001
	26T	MCS0	3.992	4.029	0.9908	99.08%	0.00	0.010
	(106 + 26)T	MCS0	3.547	3.585	0.9894	98.94%	0.00	0.010
EHT40 SDM	SU	MCS0	773.300	793.100	0.9750	97.50%	0.11	0.001
	(106 + 26)T	MCS0	3.547	3.585	0.9894	98.94%	0.00	0.010
EHT80 SDM	SU	MCS0	736.900	758.600	0.9714	97.14%	0.13	0.001
	484T	MCS0	4.006	4.029	0.9943	99.43%	0.00	0.010
	52T	MCS0	3.790	3.858	0.9824	98.24%	0.00	0.010
EHT160 SDM	SU	MCS0	515.000	535.300	0.9621	96.21%	0.17	0.002
	484T	MCS0	4.008	4.028	0.9950	99.50%	0.00	0.010

Note: Duty cycle factors are the same for 1TX and 2TX.

DUTY CYCLE PLOTS



Intentionally Blank

9.2. LP 26 dB AND 99% BANDWIDTH

LIMITS

§15.407 (a) (11)

The maximum bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz. KDB 987594 D03 U-NII 6 GHz QA v02, modified by FCC TCB Workshop Presentation Review of TCB PAG Submissions - October 2023, allows the maximum bandwidths to be defined by either the 26dB bandwidth or the 99% bandwidth for a 320 MHz nominal channel bandwidth and by the 26dB bandwidth for all other nominal channel bandwidths. The KDB requires that the test report show the 99% and 26 dB bandwidth for all the nominal channel bandwidths used by the device.

PROCEDURE

ANSI C63.10: 2020 §6.9

Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-8	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

ID:	32181 / 23560	Date:	02/02/24
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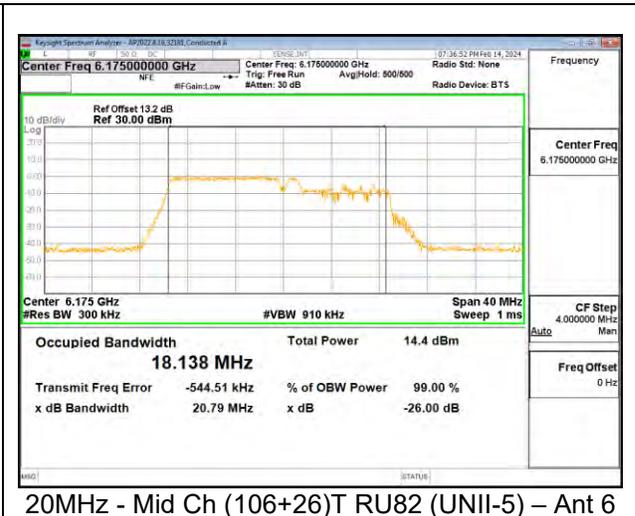
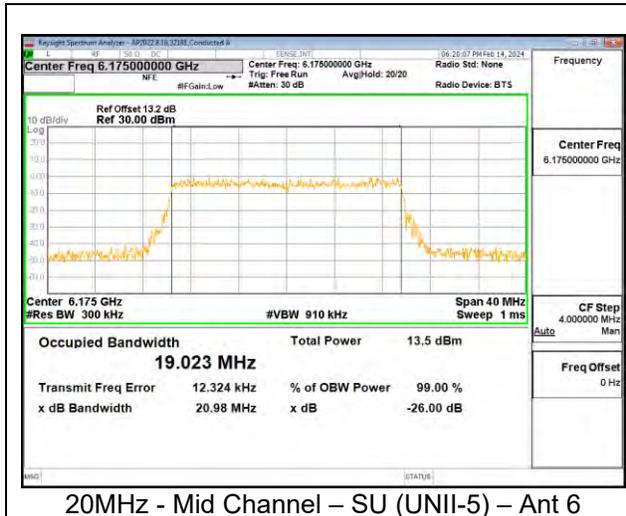
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

Plots in these sections serve as reference for settings of the different bandwidths measured.

The tests performed on this device show that both 99% and 26dB bandwidths are less than 320 MHz. for all supported channel bandwidths.

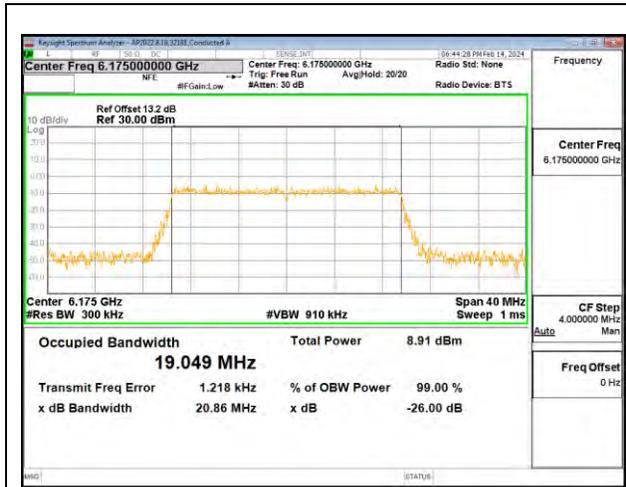
9.2.1. 802.11be SISO MODE IN THE UNII-5 BAND

UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.8	20.99	19.0604	19.0080
			106+26	82	20.53	20.78	18.1100	18.1500
				83	21.13	21.16	18.1550	18.1350
	6175	45	SU	--	21.98	21.23	19.0230	18.9960
			106+26	82	20.79	20.13	18.1380	18.0140
				83	20.01	21.40	18.2630	18.2470
	6415	93	SU	--	21.92	21.50	19.0820	19.1340
			106+26	82	20.84	20.75	18.0880	18.0930
				83	20.50	21.28	18.2690	18.2830
40 MHz	5965	3	SU	--	42.32	42.48	37.9481	38.0620
			106+26	82	23.31	30.02	18.0030	20.0950
				84	27.62	28.06	20.1920	19.6600
				85	27.65	24.80	20.0830	18.1780
	6165	43	SU	--	42.56	42.40	37.9804	38.0350
			106+26	82	23.93	23.81	17.9150	17.9990
				84	27.35	21.16	19.63	19.65
				85	23.78	24.39	18.1040	18.1610
	6405	91	SU	--	42.48	42.72	37.9943	38.0140
			106+26	82	21.05	24.28	17.9890	17.9900
				84	26.62	28.45	19.6640	19.6530
				85	22.56	23.98	18.1690	18.1160
80MHz	5985	7	SU	--	84.16	82.37	77.4967	77.5230
			52	37	20.15	20.24	18.2150	18.2360
				45	23.23	24.79	20.5360	21.0430
				52	21.28	22.61	18.2480	18.5920
	6145	39	SU	--	83.68	82.40	77.5556	77.4660
			52	37	19.76	20.15	18.2020	18.2540
				45	24.29	23.25	20.2140	20.8170
				52	21.19	22.06	18.3050	18.3760
	6385	87	SU	--	83.68	84.48	77.4622	77.5268
			52	37	19.96	20.01	18.1130	18.0520
				45	22.60	22.77	20.5420	20.5240
				52	20.17	20.97	18.1320	18.1700
160MHz	6025	15	SU	--	169.92	169.60	157.1983	157.0553
			484	65	50.91	49.38	38.3900	38.5070
				S66	55.56	60.40	38.7130	38.5280
	6185	47	SU	--	170.24	170.56	157.3242	157.3908
			484	65	52.85	48.23	38.5180	38.2980
				S66	51.54	52.27	38.6500	38.5000
	6345	79	SU	--	170.24	169.28	157.3250	157.2501
			484	65	49.07	55.79	38.3390	38.5350
				S66	51.75	61.17	38.2690	38.2650

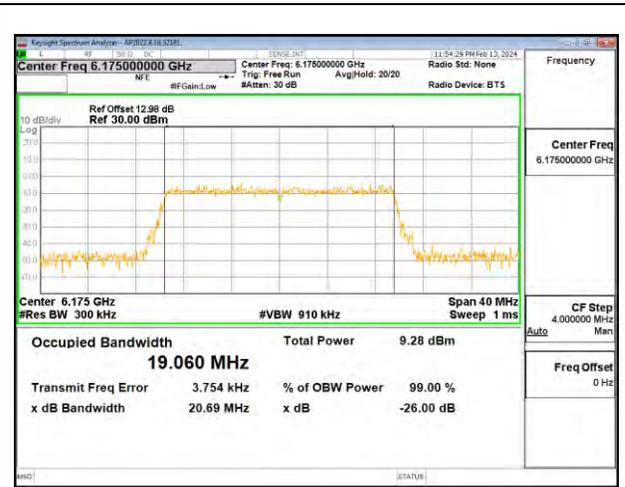


9.2.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND

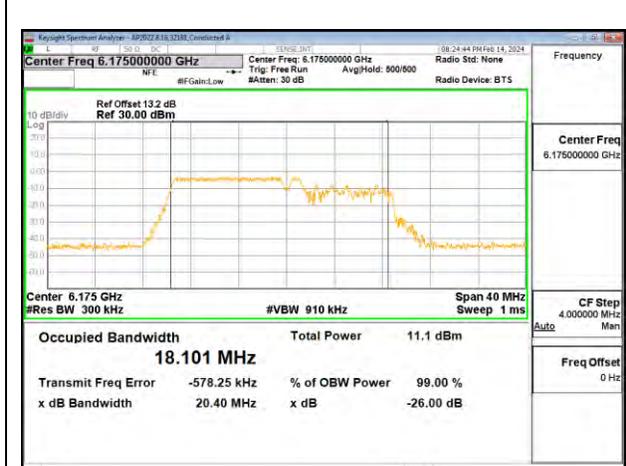
UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)			
					Ant 6	Ant 5	Ant 6	Ant 5		
20 MHz	5955	1	SU	--	21.84	20.96	19.0337	19.0520		
			106+26	82	20.70	19.75	18.0650	18.0720		
				83	20.86	20.00	18.2260	17.9760		
	6175	45	SU	--	20.86	20.69	19.0490	19.0600		
			106+26	82	20.40	19.72	18.1010	18.1090		
				83	20.87	20.02	18.1980	18.0100		
	6415	93	SU	--	21.80	21.10	19.0416	19.1340		
			106+26	82	20.58	19.72	18.1510	18.0910		
				83	20.94	20.08	18.1870	18.0860		
40 MHz	5965	3	SU	--	42.48	42.16	37.9650	38.0279		
			106+26	82	22.93	20.05	17.9270	17.9290		
				84	27.54	21.06	19.6020	19.3660		
				85	24.30	20.30	18.1510	17.8780		
	6165	43	SU	--	42.40	42.24	38.0130	38.0626		
			106+26	82	23.73	19.64	18.0680	17.8370		
				84	27.60	25.43	19.61	19.15		
				85	24.18	20.45	18.1120	17.8610		
	6405	91	SU	--	42.32	41.31	38.0549	38.0310		
			106+26	82	23.12	20.00	18.0000	17.8560		
				84	26.86	25.89	19.6980	19.1860		
				85	24.59	20.23	18.1560	17.9300		
80MHz	5985	7	SU	--	83.84	81.26	77.4790	77.5840		
			52	37	19.68	19.65	18.1970	18.0260		
				45	22.41	23.43	20.7190	20.3790		
				52	21.46	19.34	18.4250	18.2060		
			6145	39	SU	--	84.32	81.64	77.5812	77.4130
					52	37	20.20	19.43	18.1830	17.8620
	45	24.62				22.57	20.9720	19.6290		
	52	22.47				19.57	19.3420	18.0290		
	6385	87			SU	--	84.64	83.68	77.5846	77.5210
					52	37	19.99	19.62	18.1060	17.9470
			45	22.56		23.27	20.5940	20.3000		
			52	21.63		19.66	18.2010	18.0070		
160MHz			6025	15	SU	--	169.92	169.28	156.9785	157.1852
					484	65	49.33	49.89	38.3170	38.3090
	S66	54.17				48.00	38.3200	38.3600		
	6185	47	SU	--	169.60	169.28	157.4316	157.3009		
			484	65	55.10	46.36	38.3360	38.2320		
				S66	52.71	47.74	38.4690	38.5160		
	6345	79	SU	--	170.24	168.32	157.0138	157.4294		
			484	65	52.14	47.42	38.4180	38.3770		
				S66	49.51	45.77	38.2770	38.2140		



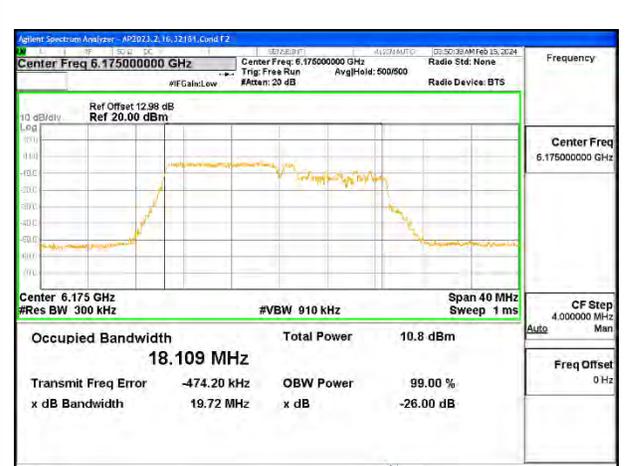
20MHz - Mid Channel – SU (UNII-5) – Ant 6



20MHz - Mid Channel – SU (UNII-5) – Ant 5



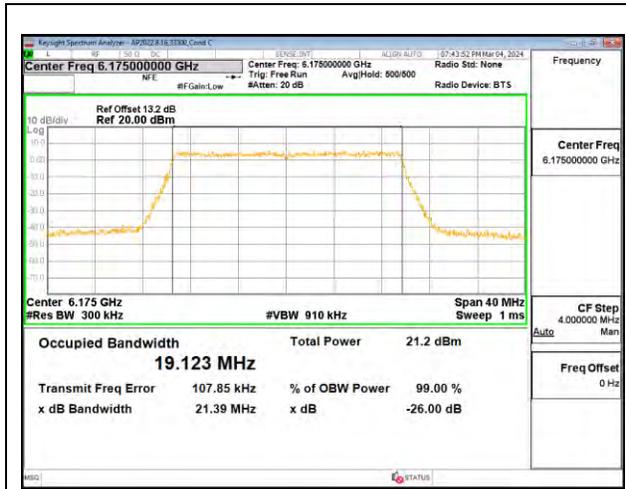
20MHz - Mid Ch (106+26)T RU82 (UNII-5) – Ant 6



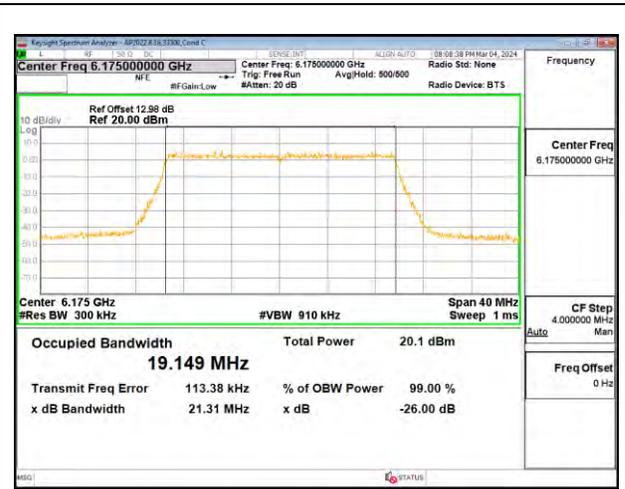
20MHz - Mid Ch (106+26)T RU82 (UNII-5) – Ant 5

9.2.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND

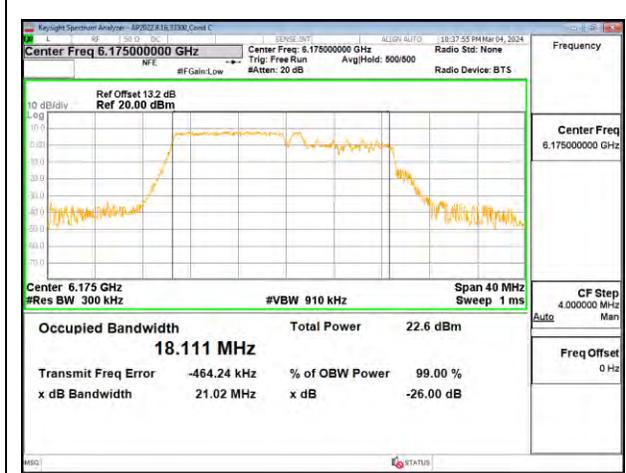
UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20 MHz	5955	1	SU	--	21.24	21.13	19.1090	19.0860
			106+26	82	20.52	19.87	18.1490	18.1490
				83	20.87	20.17	18.2540	18.0040
	6175	45	SU	--	21.39	21.31	19.1230	19.1490
			106+26	82	21.02	19.71	18.1110	18.1090
				83	20.83	20.26	18.1960	18.0930
	6415	93	SU	--	21.37	21.33	19.1300	19.1410
			106+26	82	20.30	19.67	18.1320	18.0550
				83	20.83	20.08	18.2560	18.0890
40 MHz	5965	3	SU	--	41.62	41.07	38.0850	38.0700
			106+26	82	25.18	20.58	18.0110	17.8470
				84	26.79	25.85	19.1160	19.3320
	85	24.76		20.66	18.0380	17.8950		
	6165	43	SU	--	41.55	41.34	38.0650	38.0310
			106+26	82	23.72	20.06	17.9700	17.7300
				84	27.97	25.17	19.5320	18.7600
	85	24.30		20.27	18.1300	17.9030		
	6405	91	SU	--	41.60	41.11	38.0560	38.1240
			106+26	82	24.10	20.88	17.9590	17.9370
				84	25.99	25.70	19.6060	19.1630
	85	24.19		20.35	18.0770	17.9040		
80MHz	5985	7	SU	--	81.44	81.95	77.5610	77.5680
			52	37	19.96	19.52	18.1210	17.8790
				45	23.91	22.45	20.0770	20.3520
	52	22.20		19.71	18.2240	18.0070		
	6145	39	SU	--	81.33	81.38	77.4190	77.5680
			52	37	19.83	19.05	18.0590	17.3050
				45	24.32	22.31	20.9010	19.7190
	52	19.75		19.63	18.0400	17.9760		
	6385	87	SU	--	81.42	81.46	77.4010	77.4860
			52	37	20.09	19.49	18.1560	17.8580
				45	24.52	21.24	20.8410	18.7720
	52	22.43		19.85	18.4940	18.0650		
160MHz	6025	15	SU	--	164.70	164.00	157.1200	157.3400
			484	65	50.71	46.28	38.3710	38.3140
				S66	56.65	52.27	38.5360	38.3580
	6185	47	SU	--	164.70	164.00	157.2500	157.2600
			484	65	52.58	53.78	38.3520	38.5390
				S66	56.83	53.76	38.5160	38.3140
	6345	79	SU	--	164.90	164.10	157.2300	157.3500
			484	65	52.77	50.80	38.5640	38.3630
				S66	59.03	48.23	38.4720	38.2360



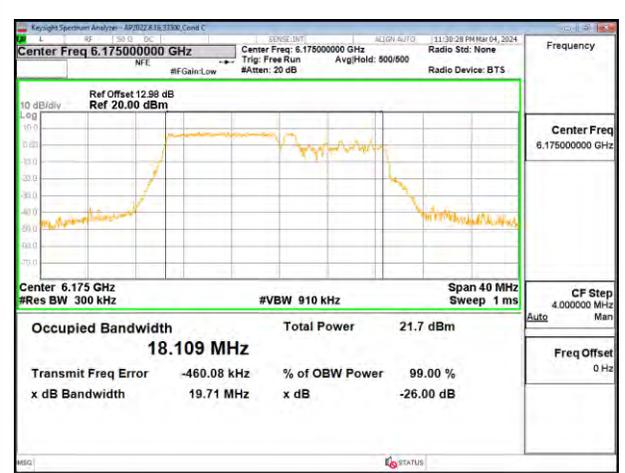
20MHz - Mid Channel – SU (UNII-5) – Ant 6



20MHz - Mid Channel – SU (UNII-5) – Ant 5



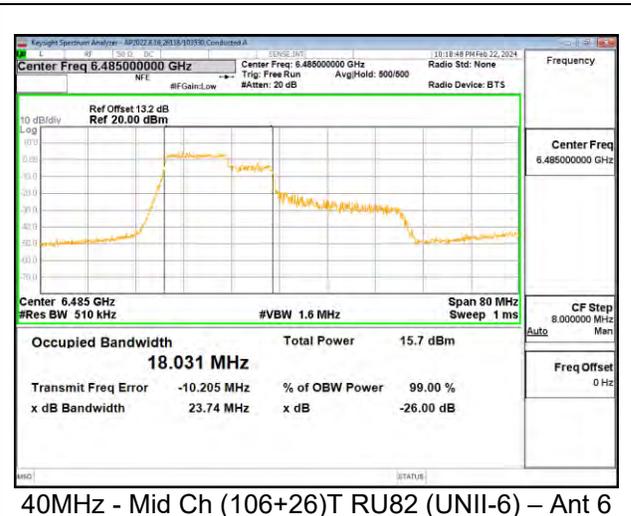
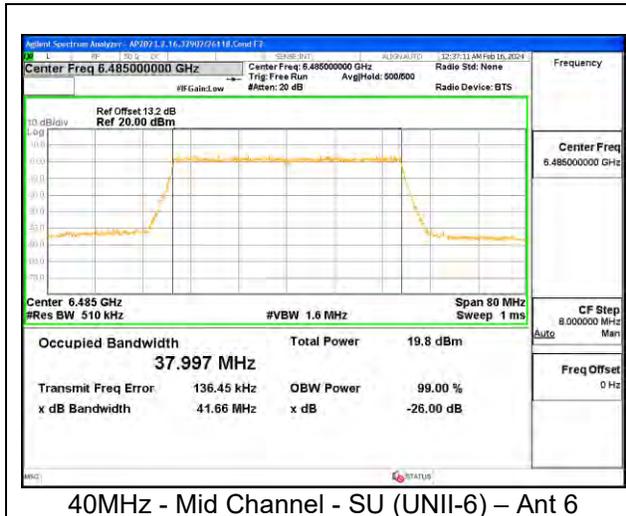
20MHz Mid Ch (106+26)T RU82 (UNII-5) Ant 6



20MHz Mid Ch (106+26)T RU82 (UNII-5) Ant 5

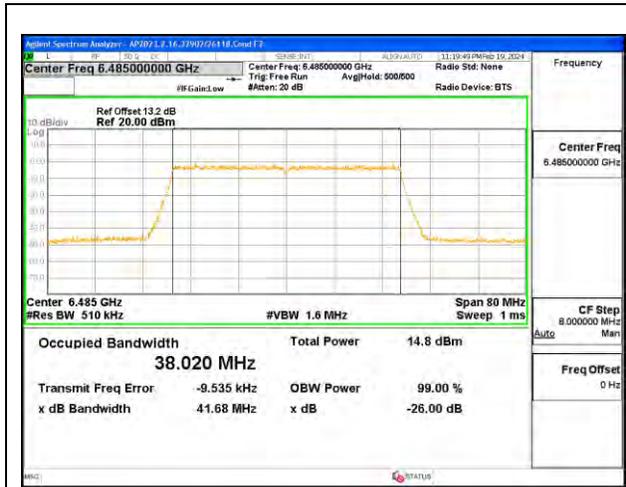
9.2.4. 802.11be SISO MODE IN THE UNII-6 BAND

UNII-6 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6435	97	SU	--	21.72	21.84	19.104	19.07
			106+26	82	21.20	21.28	18.154	17.921
				83	21.40	21.44	18.237	17.912
	6475	105	SU	--	21.80	21.72	19.081	19.093
			106+26	82	21.20	21.28	18.164	18.071
				83	21.40	21.48	18.17	17.959
	6515	113	SU	--	21.88	21.84	19.082	19.099
			106+26	82	21.40	21.20	18.079	18.089
				83	21.36	21.44	18.329	18.201
40MHz	6445	99	SU	--	42.48	42.40	38.07	38.07
			106+26	82	25.44	26.72	17.847	18.006
				84	35.84	32.80	19.68	19.771
				85	25.68	26.08	18.165	17.693
	6485	107	SU	--	41.66	41.69	37.997	38.06
			106+26	82	21.73	23.94	18.031	18.03
				84	29.28	29.84	19.655	19.414
	6525 (Straddle)	115	106+26	85	26.96	27.68	18.161	18.205
				SU	--	42.48	42.72	38.081
82				25.92	26.96	17.981	17.951	
			84	27.84	29.44	19.848	19.547	
			85	28.16	25.44	18.2	18.213	
80MHz	6465	103	SU	--	84.32	84.32	77.635	77.558
			52	37	19.73	19.80	18.161	18.173
				45	25.12	24.29	19.779	20.933
				52	22.56	20.45	17.446	18.33
160MHz	6505 (Straddle)	111	SU	--	170.24	170.24	157.17	157.34
			484	65	50.85	50.16	38.504	38.727
				S66	56.78	55.72	38.435	38.63

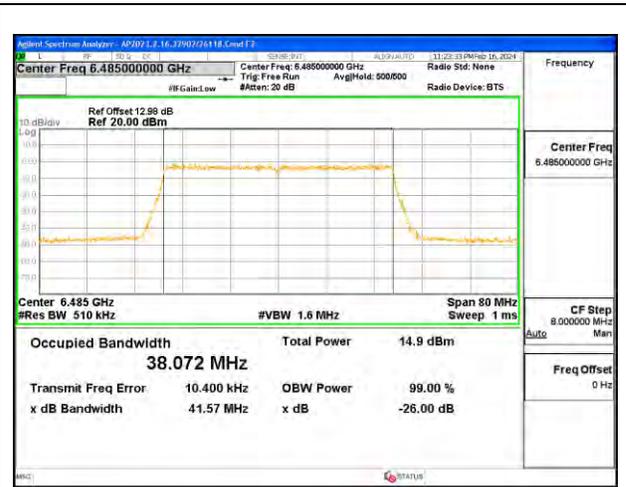


9.2.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND

UNII-6 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6435	97	SU	--	21.92	21.76	19.069	19.065	
			106+26	82	21.32	21.28	18.047	17.913	
				83	21.36	21.32	18.283	17.971	
	6475	105	SU	--	21.88	21.56	19.114	19.079	
			106+26	82	21.32	21.28	17.765	18.146	
				83	21.32	21.32	18.272	18.211	
	6515	113	SU	--	21.88	21.76	19.084	19.077	
			106+26	82	21.12	20.24	18.204	18.115	
				83	21.36	20.64	18.275	18.07	
40MHz	6445	99	SU	--	42.56	42.48	38.084	38.07	
			106+26	82	27.76	20.24	18.075	17.855	
				84	30.64	30.48	19.562	19.005	
				85	26.96	20.64	18.534	17.867	
	6485	107	SU	--	41.68	41.57	38.02	38.072	
			106+26	82	23.81	20.75	18.058	17.921	
				84	31.36	29.04	19.792	18.95	
	6525 (Straddle)	115	106+26	85	27.92	20.48	18.214	17.883	
				SU	--	42.48	42.32	38.062	38.06
				82	26.96	20.00	16.82	17.959	
	6525 (Straddle)	115	106+26	84	29.04	27.52	19.651	19.074	
				85	27.68	20.72	18.189	17.912	
SU				--	84.32	83.84	77.543	77.583	
80MHz	6465	103	SU	--	84.32	83.84	77.543	77.583	
			52	37	19.98	19.69	18.214	17.900	
				45	25.92	24.64	20.436	19.419	
				52	22.40	19.68	18.717	17.703	
160MHz	6505 (Straddle)	111	SU	--	169.92	168.96	157.24	157.09	
			484	65	49.98	44.89	38.516	38.38	
				S66	61.85	47.11	38.735	38.266	



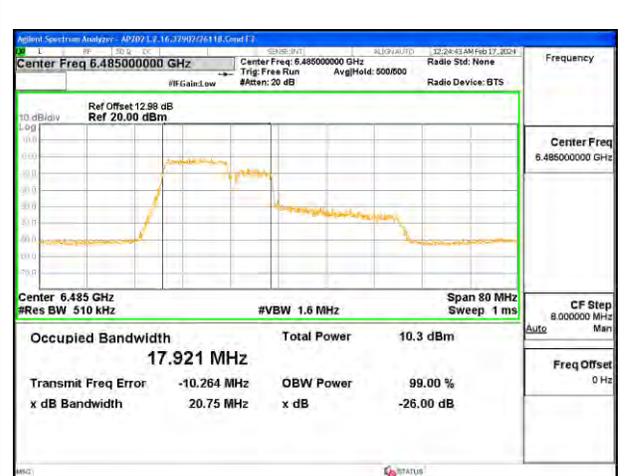
40MHz - Mid Channel - SU (UNII-6) – Ant 6



40MHz - Mid Channel - SU (UNII-6) – Ant 5



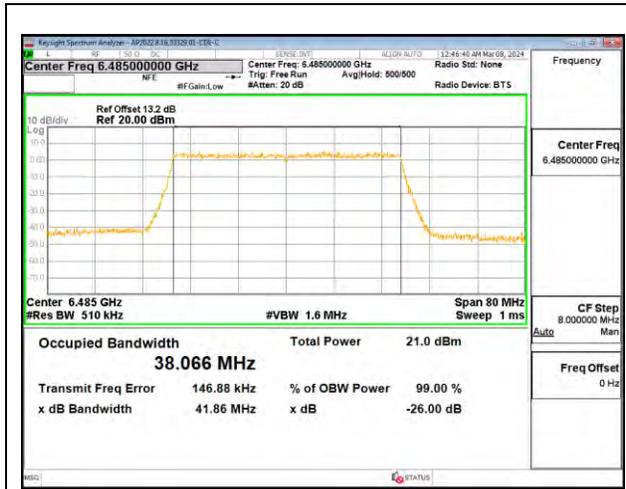
40MHz - Mid Ch (106+26)T RU82 (UNII-6) – Ant 6



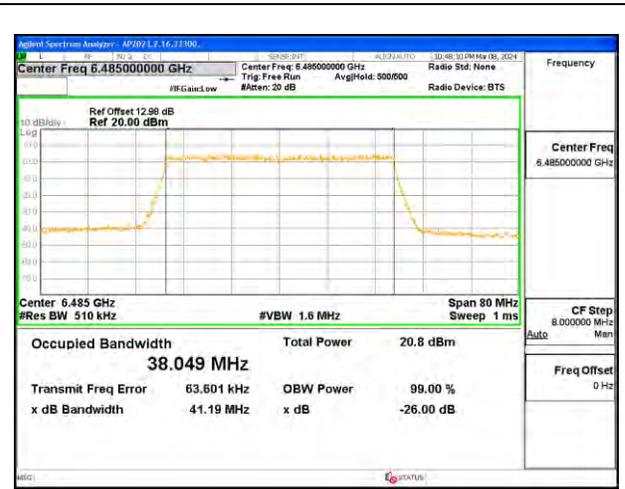
40MHz - Mid Ch (106+26)T RU82 (UNII-6) – Ant 5

9.2.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND

UNII-6 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6435	97	SU	--	21.29	21.32	19.1006	19.116	
			106+26	82	20.60	19.85	18.168	18.066	
				83	21.02	20.04	18.265	18.149	
	6475	105	SU	--	21.38	21.43	19.1268	19.154	
			106+26	82	20.06	19.79	18.056	18.068	
				83	20.80	20.07	18.263	17.969	
	6515	113	SU	--	21.31	21.46	19.1402	19.119	
			106+26	82	20.76	19.77	17.974	18.061	
				83	20.99	19.88	18.284	18.116	
40MHz	6445	99	SU	--	41.70	41.25	38.084	38.063	
			106+26	82	23.20	19.91	17.992	17.88	
				85	26.16	26.28	19.521	19.201	
	6485	107	SU	--	41.86	41.19	38.066	38.049	
			106+26	82	24.71	20.08	18.057	17.92	
				84	26.04	26.00	19.537	19.252	
	6525 (Straddle)	115	106+26	85	24.90	20.22	18.123	17.853	
				SU	--	41.81	41.34	38.041	38.083
				82	24.60	19.57	18.042	17.701	
80MHz	6465	103	SU	--	81.83	81.74	77.457	77.519	
				37	20.48	19.70	18.083	17.958	
			52	45	23.85	22.74	20.388	20.14	
				52	22.78	19.79	18.411	17.911	
				56	22.78	19.79	18.411	17.911	
160MHz	6505 (Straddle)	111	SU	--	164.50	163.80	157.15	157.09	
			484	65	56.32	49.80	38.355	38.319	
				S66	49.93	48.81	38.606	38.458	



40MHz - Mid Channel - SU (UNII-6) – Ant 6



20MHz - Mid Channel - SU (UNII-6) – Ant 5



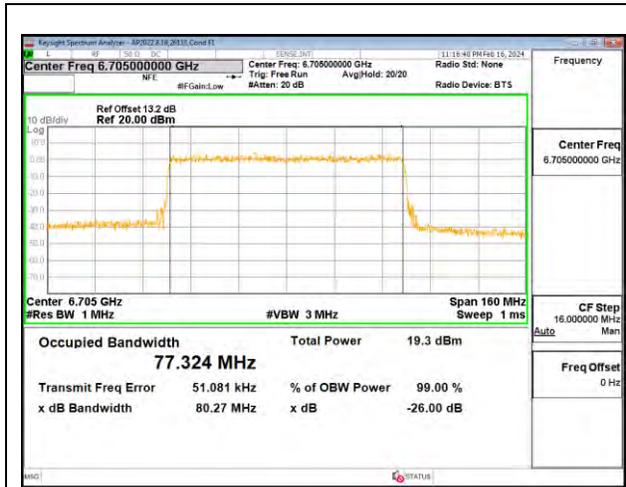
40MHz Mid Ch (106+26)T RU82 (UNII-6) Ant 6



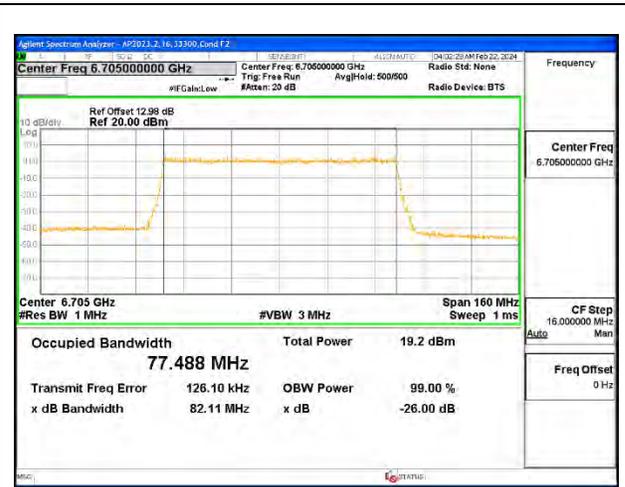
40MHz Mid Ch (106+26)T RU82 (UNII-6) Ant 5

9.2.7. 802.11be SISO MODE IN THE UNII-7 BAND

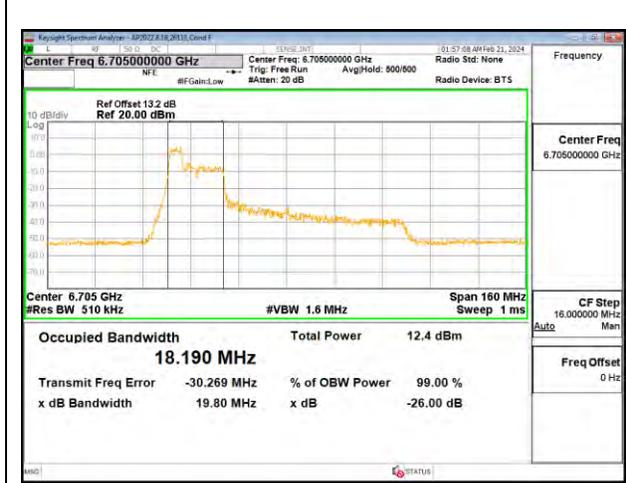
UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6535	117	SU	--	21.76	21.92	19.053	19.102	
			26	0	19.76	19.8	18.322	18.397	
				4	18.88	18.81	17.144	17.06	
	6715	153	26	8	20.44	20.06	18.415	18.507	
				SU	--	21.8	21.8	19.029	19.043
			0	19.64	19.63	18.354	18.32		
	6875 (Straddle)	185	26	4	19	18.85	17.212	17.128	
				8	20.4	20.28	18.411	18.478	
			SU	--	21.8	21.8	19.023	18.995	
	40MHz	6565	123	SU	--	42.4	42.4	38.000	38.000
				106+26	82	23.24	24.56	17.978	18.014
					84	33.04	30.88	19.829	20.046
6685		147	106+26	85	27.12	26	18.414	18.12	
				SU	--	42.48	42.32	38.066	37.998
			82	27.2	26.8	17.978	18.014		
6845		179	106+26	84	34.8	31.52	19.823	19.567	
				85	26.72	26.56	18.322	18.239	
			SU	--	42.24	42.32	38.021	37.93	
80MHz		6545 (Straddle)	119	52	82	27.28	26.48	18.105	18.06
					84	30.72	33.28	19.841	20.108
				SU	--	84.16	84.48	77.588	77.554
	6705	151	52	37	19.84	20.16	18.184	18.257	
				45	23.36	24.16	19.701	20.242	
			SU	--	80.27	82.11	77.324	77.488	
	6865 (Straddle)	183	52	52	21.6	21.28	18.582	18.266	
				37	19.8	19.84	18.19	18.193	
			SU	--	82.32	84.32	77.596	77.668	
	160MHz	6665	143	484	45	22.88	23.41	20.911	20.384
					52	22.08	22.23	18.472	18.164
				SU	--	82.32	84.32	77.596	77.668
6825 (Straddle)		175	484	37	19.68	19.84	18.248	18.171	
				45	23.2	24.48	20.061	20.409	
			SU	--	170.88	169.92	157.07	157.41	
			52	22.24	22.24	18.721	18.125		
			S66	52.11	59.44	38.769	38.691		
			S66	58.35	58.93	38.695	38.723		



80MHz - Mid Channel - SU (UNII-7) – Ant 6



80MHz - Mid Channel - SU (UNII-7) – Ant 5



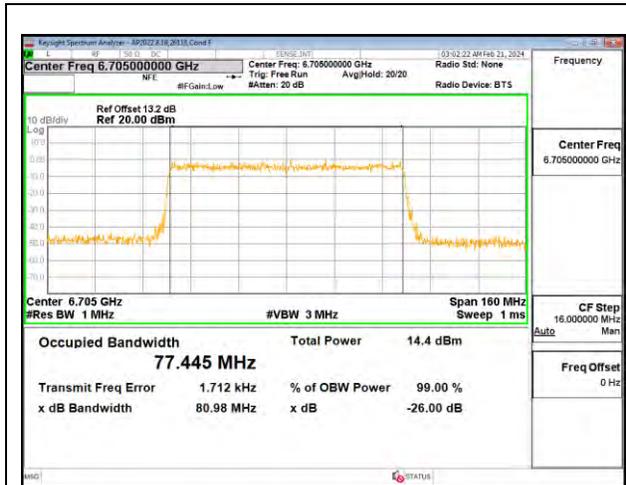
80MHz - Mid Channel 52T RU37 (UNII-7) – Ant 6



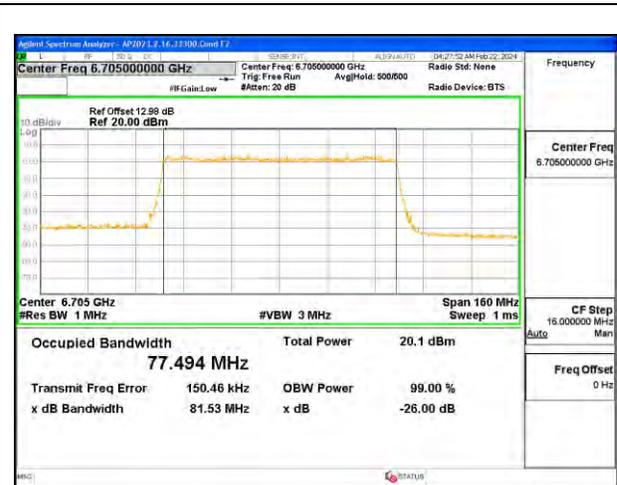
80MHz - Mid Channel 52T RU37 (UNII-7) – Ant 5

9.2.8. 802.11be MIMO CDD MODE IN THE UNII-7 BAND

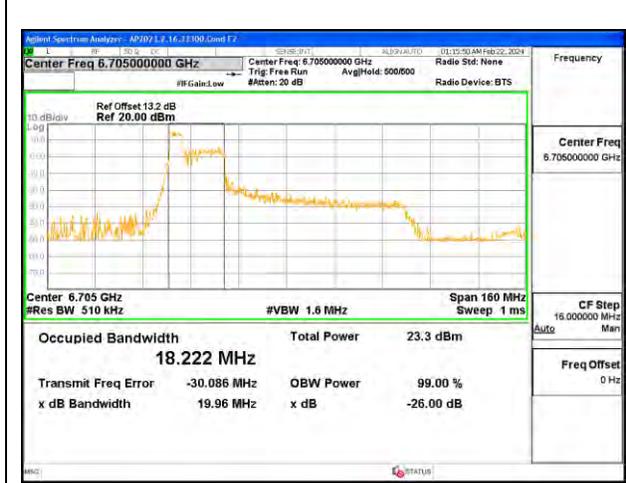
UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.64	21.68	19.05	19.023
			26	0	19.64	19.52	18.288	18.291
				4	18.96	18.04	17.096	16.738
	6715	153	SU	--	21.88	21.64	19.034	19.047
			26	0	19.79	19.63	18.345	18.268
				4	19	18.16	17.105	16.846
	6875 (Straddle)	185	SU	--	21.76	21.6	19.087	19.064
			26	0	19.72	19.72	18.268	18.273
				4	18.92	18.16	17.116	16.865
40MHz	6565	123	SU	--	42.4	42.32	37.92	37.967
			106+26	82	27.2	19.52	17.978	17.897
				84	27.68	28.24	19.867	19.425
	6685	147	SU	--	42.32	42.48	37.989	38.023
			106+26	82	23.08	19.97	18.046	17.910
				84	28.16	27.44	19.406	19.218
	6845	179	SU	--	42.32	42.48	38.032	38.027
			106+26	82	27.04	20.16	18.137	17.92
				84	33.23	28.16	19.626	19.328
80MHz	6545 (Straddle)	119	SU	--	84.32	84	77.624	77.519
			52	37	19.84	19.52	18.097	17.98
				45	24	22.24	20.132	19.147
	6705	151	SU	--	80.98	81.53	77.445	77.494
			52	37	19.96	19.92	18.222	17.813
				45	23.36	23.2	20.606	19.42
	6865 (Straddle)	183	SU	--	83.84	84	77.466	77.541
			52	37	20	19.68	18.009	18.023
				45	23.52	22.56	19.039	20.061
160MHz	6665	143	SU	--	170.24	169.6	157.19	157.42
			484	65	50.71	48.62	38.284	38.259
				S66	62.65	47.91	38.371	38.376
	6825 (Straddle)	175	SU	--	170.24	169.6	157.23	157.35
			484	65	47.68	50.55	38.417	38.271
				S66	52.55	56.11	38.764	38.47



80MHz - Mid Channel - SU (UNII-7) – Ant 6



80MHz - Mid Channel - SU (UNII-7) – Ant 5



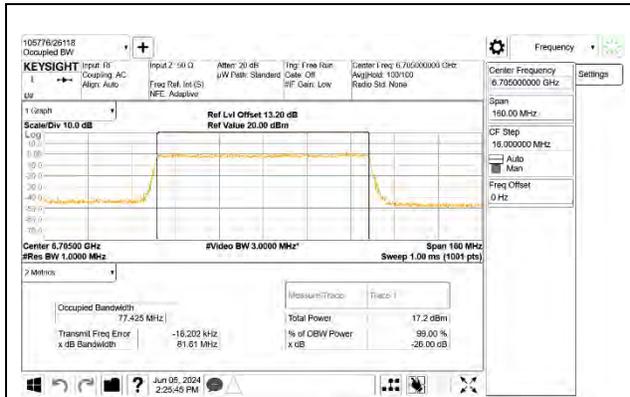
80MHz - Mid Channel 52T RU37 (UNII-7) – Ant 6



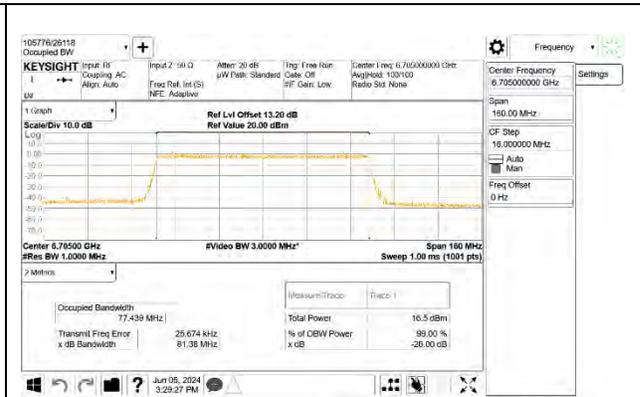
80MHz - Mid Channel 52T RU37 (UNII-7) – Ant 5

9.2.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND

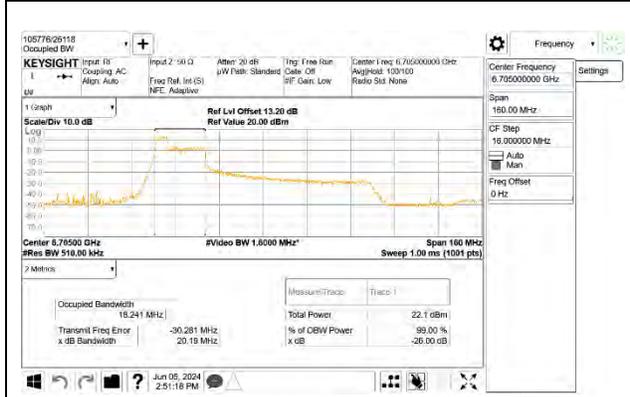
UNII-7 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.06	21.18	19.058	19.056
			26	0	19.68	19.60	18.352	18.258
				4	18.83	18.05	17.07	16.794
				8	20.30	19.64	18.424	18.297
	6715	149	SU	--	21.22	21.04	19.1325	19.1006
			26	0	19.72	19.66	18.402	18.3
				4	18.84	18.12	17.154	16.85
				8	20.19	19.78	18.416	16.352
	6875	185	SU	--	21.19	21.14	19.1024	19.1438
			26	0	19.70	19.56	18.336	16.262
				4	18.84	18.08	17.15	16.81
				8	20.39	19.48	18.439	18.334
40MHz	6565	123	SU	--	41.13	41.15	38.0922	37.973
			106+26	82	28.29	20.08	18.37	17.900
				84	32.35	27.78	20.322	19.427
				85	25.63	20.47	18.423	17.955
	6685	147	SU	--	41.51	41.14	38.0593	38.0234
			106+26	82	24.34	19.95	18.106	17.884
				84	32.67	25.88	20.016	19.401
				85	24.85	20.68	18.454	17.383
	6845	179	SU	--	41.33	41.25	37.9765	38.1068
			106+26	82	25.39	20.55	18.091	17.911
				84	29.94	27.91	20.07	19.429
				85	25.17	24.33	18.526	17.931
80MHz	6545 (Straddle)	119	SU	--	81.89	81.20	77.549	77.532
			52	37	20.21	19.86	18.232	18.023
				45	24.10	24.13	20.964	20.351
				52	22.54	19.74	19.82	17.976
	6705	151	SU	--	81.61	81.38	77.425	77.439
			52	37	20.19	19.55	18.241	17.922
				45	24.22	22.40	21.628	20.301
				52	22.04	20.02	18.947	17.957
	6865	183	SU	--	81.54	80.93	77.374	77.5
			52	37	20.12	19.11	18.283	17.262
				45	25.51	24.81	21.53	20.391
				52	22.92	20.06	19.123	18.028
160MHz	6665	143	SU	--	165.80	163.30	157.14	157.27
			484	65	56.12	48.19	38.34	38.536
				566	48.58	48.36	38.38	38.399
	6825 (Straddle)	175	SU	--	164.30	163.60	157.11	157.36
			484	65	67.96	48.95	46.5746	38.2606
				566	74.09	56.52	50.3869	42.8595



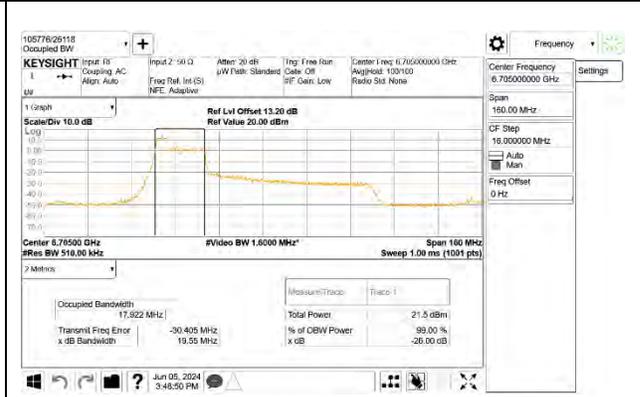
80MHz - Mid Channel - SU (UNII-7) – Ant 6



80MHz - Mid Channel - SU (UNII-7) – Ant 5



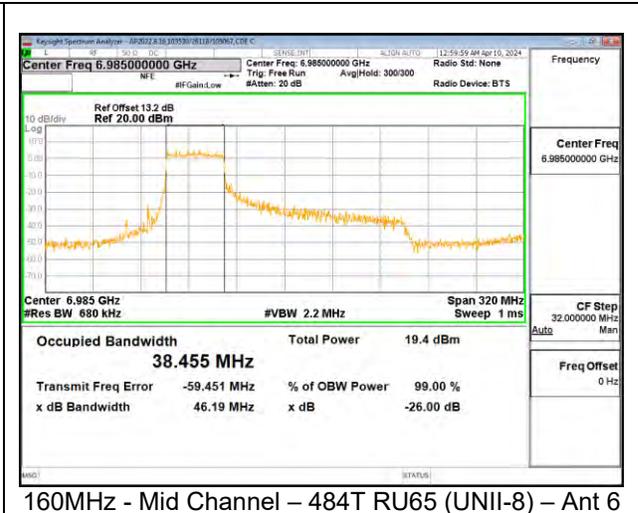
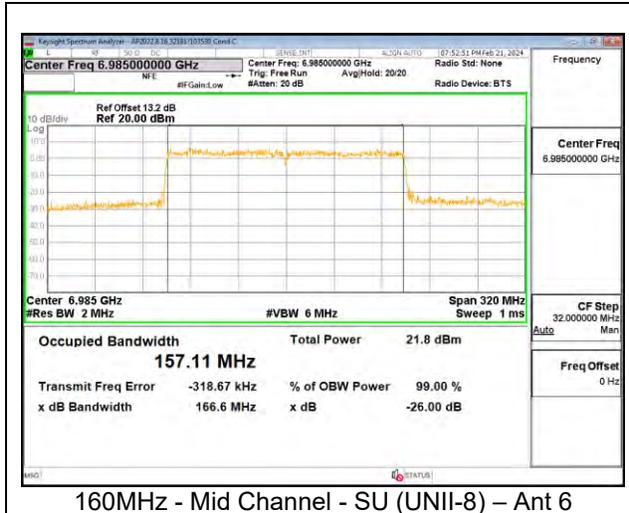
80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 6



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 5

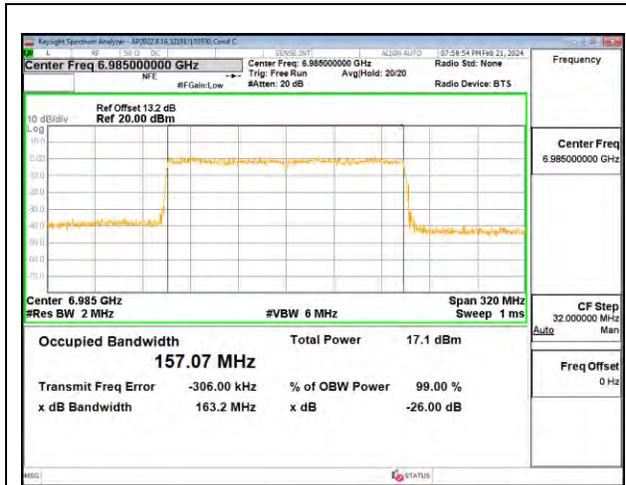
9.2.10. 802.11be SISO MODE IN THE UNII-8 BAND

UNII-8 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6895	189	SU	--	21.88	21.76	19.0360	19.0290	
			106+26	82	21.20	21.36	18.1650	18.1260	
				83	21.44	21.36	18.0340	18.1770	
	6995	209	SU	--	21.88	21.76	19.0740	19.0290	
			106+26	82	20.90	20.77	17.7830	18.1120	
				83	21.32	21.48	18.2550	18.2630	
	7095	229	SU	--	21.92	21.76	19.0540	18.9910	
			106+26	82	21.12	21.08	18.1070	18.1350	
				83	21.44	21.44	18.2010	18.2820	
	7115	233	SU	--	21.80	21.72	19.0680	19.0920	
40MHz	6885 (Straddle)	187	SU	--	42.32	43.32	38.0150	38.1160	
			106+26	82	28.72	25.36	17.9480	18.0010	
				84	31.60	30.80	19.7030	19.5080	
				85	26.80	26.88	18.0880	18.2160	
	6965	203	SU	--	42.32	43.24	38.0440	37.9860	
			106+26	82	25.84	26.24	18.0780	18.0510	
				84	32.56	30.88	19.5620	19.6700	
				85	26.08	26.80	17.9800	18.0810	
	7085	227	SU	--	43.32	42.48	37.9610	37.8840	
			106+26	82	26.24	26.72	18.0490	16.9830	
				84	32.32	31.28	19.5230	19.6520	
				85	26.16	26.64	18.1430	18.1160	
	80MHz	6945	199	SU	--	84.16	84.16	77.4910	77.3660
				484	65	72.96	68.96	38.0700	38.1220
					66	79.36	79.20	38.2330	38.0980
7025		215	SU	--	84.32	84.32	77.5460	77.4490	
			484	65	64.48	72.80	38.1610	38.2130	
				66	79.04	80.32	38.1920	38.2680	
160MHz	6985	207	SU	--	166.60	164.00	157.1100	156.9800	
			484	65	46.19	51.41	38.4550	38.4540	
				S66	49.93	52.26	38.6530	38.6190	

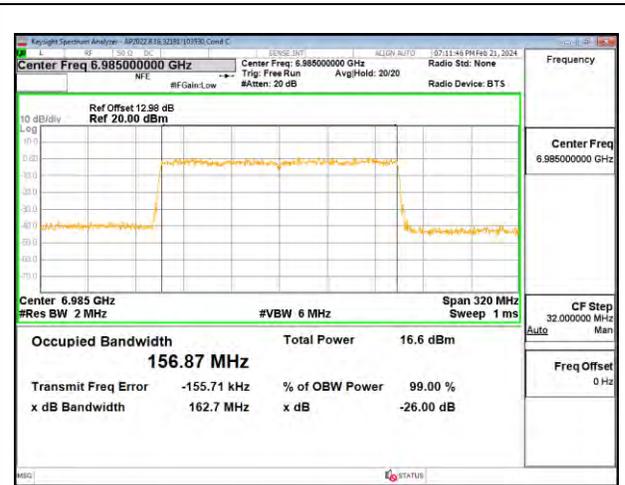


9.2.11. 802.11be MIMO CDD MODE IN THE UNII-8 BAND

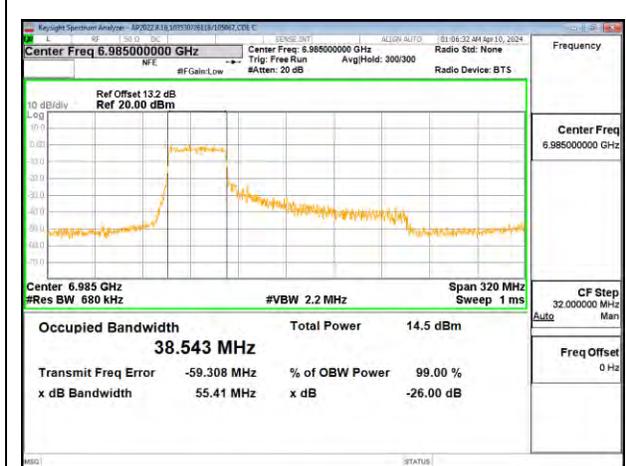
UNII-8 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6895	189	SU	--	21.84	21.68	19.1010	18.9840	
			106+26	82	21.12	20.32	17.9820	17.8160	
				83	21.28	20.60	18.2460	18.0720	
	6995	209	SU	--	21.84	21.68	19.0460	19.0560	
			106+26	82	20.96	19.80	18.1480	18.1450	
				83	21.28	20.72	18.2080	18.1030	
	7095	229	SU	--	21.72	21.68	19.0760	19.0310	
			106+26	82	21.20	20.20	18.1070	18.0960	
				83	21.36	20.72	18.2070	18.1050	
	7115	233	SU	--	21.96	21.80	19.0110	19.0480	
	40MHz	6885 (Straddle)	187	SU	--	42.16	42.16	37.9770	38.0550
				106+26	82	27.20	21.04	17.9160	17.5110
84					29.20	29.60	19.3230	19.0190	
85					27.36	20.40	18.1480	17.8330	
6965		203	SU	--	42.64	42.24	37.9320	37.9440	
			106+26	82	26.48	21.04	17.9510	17.8630	
				84	29.92	27.28	19.5660	19.0220	
7085		227	106+26	85	27.60	20.88	18.1720	17.9180	
				SU	--	42.48	42.32	37.9980	37.9580
				82	26.00	23.60	18.0120	17.7460	
				84	30.96	28.80	19.3750	19.1360	
				85	27.76	20.88	18.0050	17.1680	
80MHz		6945	199	SU	--	84.32	84.16	77.4710	77.3660
				484	65	64.16	61.60	38.1990	38.1130
					66	79.36	63.04	38.2200	38.1040
	7025	215	SU	--	84.32	84.00	77.4370	77.4010	
			484	65	62.24	61.76	38.2300	38.1200	
				66	80.32	59.36	38.2670	37.9690	
160MHz	6985	207	SU	--	163.20	162.70	157.0700	156.8700	
			484	65	55.41	44.36	38.5430	38.3640	
				S66	64.40	49.49	38.6350	38.3300	



160MHz - Mid Channel - SU (UNII-8) – Ant 6



160MHz - Mid Channel - SU (UNII-8) – Ant 5



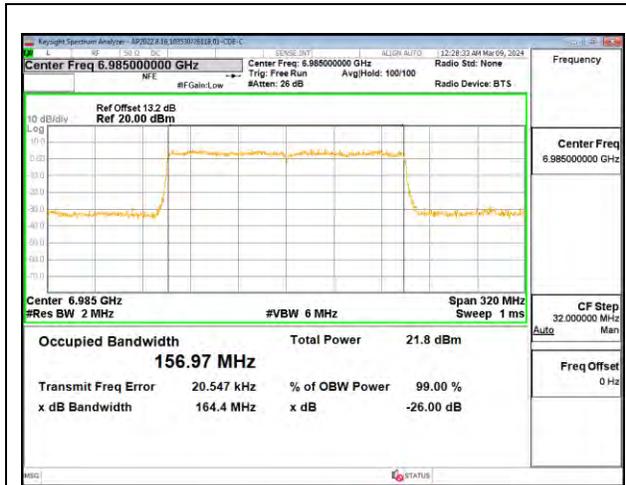
160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 6



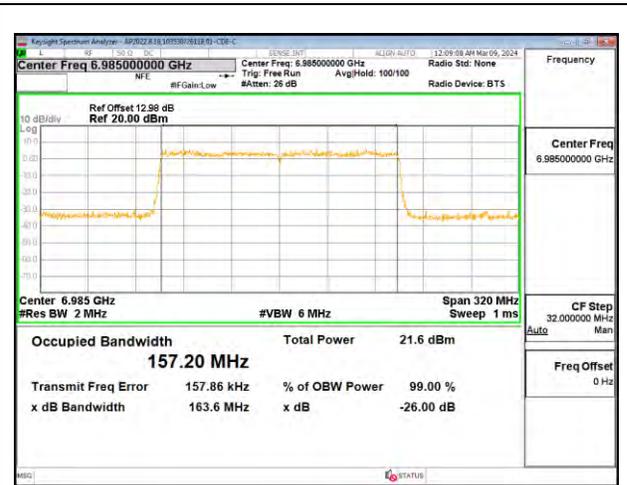
160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 5

9.2.12. 802.11be MIMO SDM MODE IN THE UNII-8 BAND

UNII-8 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6895	189	SU	--	21.68	21.72	19.0390	19.0780	
			106+26	82	21.20	19.92	18.1100	18.0630	
				83	21.48	20.56	18.2030	18.1660	
	6995	209	SU	--	20.94	19.62	18.1390	18.1070	
			106+26	82	21.36	20.44	17.9240	18.0260	
				83	21.44	20.44	18.2370	18.1270	
	7095	229	SU	--	21.84	21.64	19.0950	19.0760	
			106+26	82	21.24	20.08	18.0740	18.0810	
				83	21.44	20.52	18.3160	18.0680	
	7115	233	SU	--	21.68	21.60	19.0800	19.0580	
	40MHz	6885 (Straddle)	187	SU	--	42.56	42.24	38.0710	37.9860
				106+26	82	25.60	20.88	18.0250	16.3580
84					30.16	27.84	19.8660	19.3300	
85					27.04	21.04	18.1020	17.8730	
6965				203	SU	--	42.64	42.32	38.0560
		106+26	82		27.36	20.48	14.7180	17.8010	
			84		32.40	28.24	19.5980	19.1350	
			85		26.08	20.96	18.1050	17.9010	
		7085	227		SU	--	42.64	42.08	38.0910
106+26				82	25.76	20.72	17.8620	17.8240	
				84	32.00	28.64	19.5770	19.2040	
				85	28.00	21.04	18.3300	17.9140	
80MHz				6945	199	SU	--	83.52	83.52
		484	65			69.92	61.92	38.1050	38.0670
			66			80.48	73.28	38.2430	38.0810
	7025	215	SU	--	84.00	83.36	77.5110	77.5980	
			484	65	62.08	68.80	38.3010	38.0460	
				66	80.32	69.12	38.3110	38.0080	
160MHz	6985	207	SU	--	164.40	163.60	156.9700	157.2000	
			484	65	49.57	48.68	38.2000	38.1090	
				S66	54.84	54.52	38.3590	54.5200	



160MHz - Mid Channel - SU (UNII-8) – Ant 6



160MHz - Mid Channel - SU (UNII-8) – Ant 5



160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 6



160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 5

9.3. SP 26 dB AND 99% BANDWIDTH

LIMITS

§15.407 (a) (11)

The maximum bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz. KDB 987594 D03 U-NII 6 GHz QA v02, modified by FCC TCB Workshop Presentation Review of TCB PAG Submissions - October 2023, allows the maximum bandwidths to be defined by either the 26dB bandwidth or the 99% bandwidth for a 320 MHz nominal channel bandwidth and by the 26dB bandwidth for all other nominal channel bandwidths. The KDB requires that the test report show the 99% and 26 dB bandwidth for all the nominal channel bandwidths used by the device.

PROCEDURE

ANSI C63.10: 2020 §6.9

Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	510KHz/1.6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	510KHz/1.6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

ID:	32181 / 23560	Date:	02/02/24
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For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

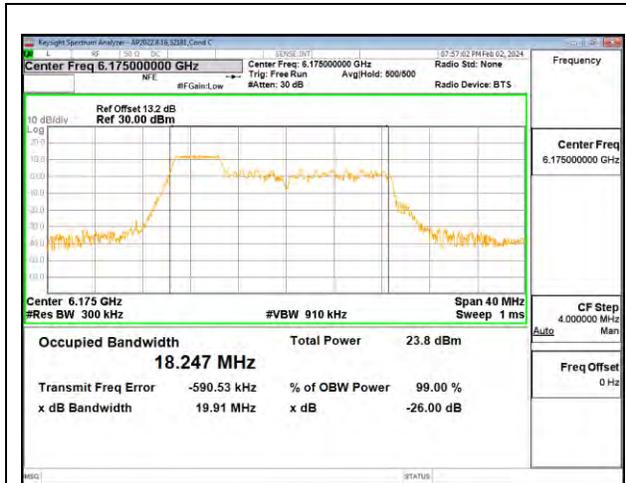
The data in these sections follow the same testing parameters used for LP and SP modes bandwidth tests, therefore, for test setting please refer to LP mode bandwidth test plots.

Only additional 20MHz 52T, 40MHz 242T, 80MHz 242T, and 160MHz 242T test plots are added in this section.

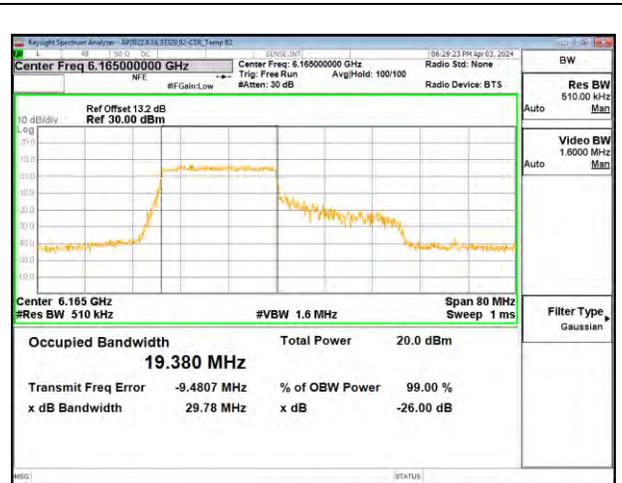
The tests performed on this device show that both 99% and 26dB bandwidths are less than 320 MHz. for all supported channel bandwidths.

9.3.1. 802.11be SISO MODE IN THE UNII-5 BAND

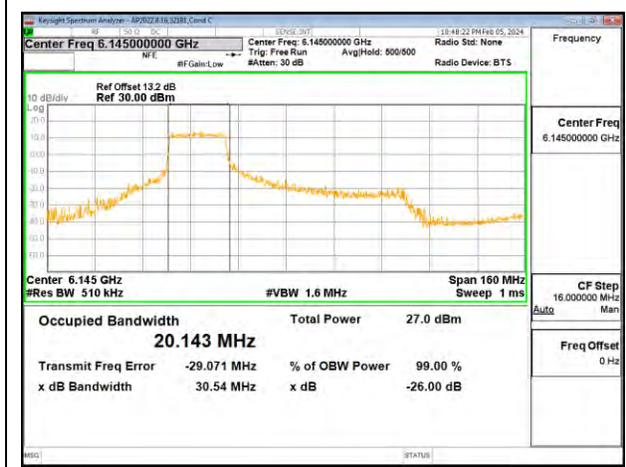
UNII-5 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)			
					Ant 6	Ant 5	Ant 6	Ant 5		
20 MHz	5955	1	SU	--	21.25	21.39	19.0520	19.0370		
			52	37	19.89	19.89	18.1930	18.1980		
				38	19.41	19.44	17.1480	17.1570		
		40	20.64	20.44	18.3460	18.2520				
		6175	45	SU	--	20.23	21.05	19.0420	19.0930	
				52	37	19.91	19.86	18.2470	18.1620	
	38				19.40	18.94	17.1480	17.0410		
	40	20.27	20.62	18.1720	18.2440					
	6415	93	SU	--	21.24	21.33	19.0870	19.0930		
				52	37	19.83	19.69	18.3200	18.0890	
					38	19.17	19.49	17.1450	17.2030	
			40	20.54	20.57	14.4080	18.2070			
40 MHz			5965	3	SU	--	41.06	41.27	38.0140	37.9910
					242	61	28.68	28.89	19.6420	19.6810
	62	32.09		30.53		19.8900	19.8370			
	6165	43		SU	--	40.93	41.30	38.0660	37.9670	
			242	61	29.78	26.58	19.3800	19.2730		
		62		33.02	30.60	19.9220	19.8790			
		6405	91	SU	--	41.25	41.32	37.9640	38.0100	
	242			61	28.86	29.98	19.3810	19.9830		
				62	27.45	29.38	19.4070	19.8730		
				64	81.68	81.93	77.4820	77.6870		
	80MHz	5985	7	SU	--	81.68	81.93	77.4820	77.6870	
				242	61	32.34	29.01	19.7370	19.8010	
62					32.65	41.05	20.1630	19.5280		
64			29.19	27.21	19.8970	19.6020				
6145		39	SU	--	81.43	82.18	77.5830	77.4950		
			242	61	30.54	31.46	20.1430	19.5250		
				62	37.39	35.44	19.6140	19.5530		
				64	29.95	27.93	19.9910	19.8700		
6385		87	SU	--	82.00	82.25	77.5380	77.5120		
			242	61	30.94	30.07	19.9510	19.9550		
				62	32.44	29.93	19.4930	19.8740		
				64	29.74	28.58	19.4250	19.9280		
160MHz	6025	15	SU	--	162.80	164.00	157.3200	157.2900		
			242	61	26.03	26.54	19.4730	19.5030		
				64	38.45	30.13	20.0430	19.7100		
		S64	25.73	30.35	19.7860	19.6400				
	6185	47	SU	--	166.60	165.50	157.0800	157.1200		
			242	61	27.58	29.63	19.5730	19.5650		
				64	31.59	29.65	19.7910	19.8250		
				S64	27.25	27.57	19.7100	19.6710		
	6345	79	SU	--	163.40	165.60	157.0700	157.2100		
			242	61	28.33	27.56	19.5980	19.8820		
				64	29.36	28.82	19.6960	19.6970		
				S64	25.77	27.41	19.5740	19.4000		



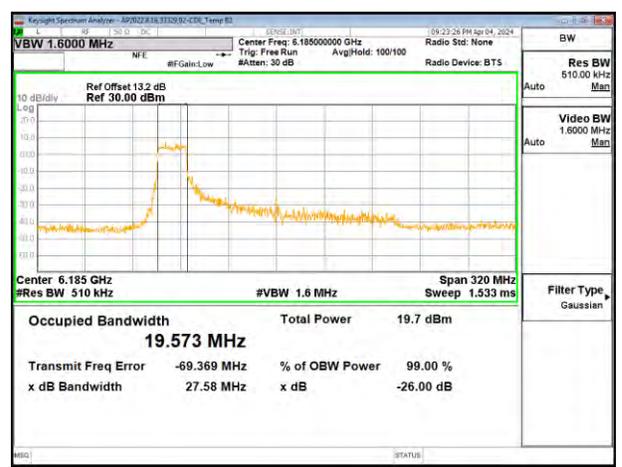
20MHz - Mid Channel – 52T-RU37 (UNII-5) – Ant 1



40MHz - Mid Channel – 242T-RU61 (UNII-5) – Ant 1



80MHz - Mid Channel – 242T-RU61 (UNII-5) – Ant 1



160MHz - Mid Channel – 242T-RU61 (UNII-5) – Ant 1

9.3.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND

UNII-5 (MIMO CDD)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)			
					Ant 6	Ant 5	Ant 6	Ant 5		
20 MHz	5955	1	SU	--	21.26	21.32	19.0370	19.0510		
			52	37	19.91	19.68	18.3020	18.3040		
				38	18.98	18.34	17.0400	16.6890		
		40	20.56	19.76	18.3320	18.1360				
		6175	45	SU	--	21.52	21.35	19.0850	19.0930	
				52	37	19.64	19.69	18.2540	18.0630	
	38				19.44	18.35	17.1560	16.7530		
	40	20.60	19.79	18.2040	18.1640					
	6415	93	SU	--	21.23	21.36	19.0950	19.0470		
			52	37	20.05	19.63	18.2660	18.0450		
				38	19.24	18.60	17.1040	16.7340		
				40	20.65	19.66	18.3720	18.1680		
40 MHz			5965	3	SU	--	41.29	41.72	38.0400	38.0410
					242	61	31.65	28.32	19.7220	19.3550
	242	62		31.19	27.39	19.3840	19.5040			
		SU		--	41.23	41.64	37.9970	38.0230		
	6165	43	242	61	33.80	27.30	20.0120	19.4310		
			62	30.68	31.13	19.8560	19.4080			
	6405	91	SU	--	41.17	41.41	38.0810	38.0180		
			242	61	33.74	27.85	19.6750	19.5710		
				62	31.60	30.35	19.7840	19.3420		
			SU	--	82.20	81.98	77.5870	77.5550		
	80MHz	5985	7	SU	--	82.20	81.98	77.5870	77.5550	
				242	61	25.30	26.81	19.3800	19.2050	
62					29.74	29.48	19.3760	19.4160		
64			31.44	25.39	19.8960	19.3840				
6145			39	SU	--	81.54	81.67	77.5510	77.5510	
				242	61	26.16	26.54	19.2620	19.2610	
		62			32.24	27.95	19.5940	19.2350		
64		30.53	24.52	20.0180	19.2310					
6385		87	SU	--	81.79	81.96	77.4720	77.3380		
			242	61	27.64	24.65	19.2960	19.2450		
				62	36.96	33.00	19.5530	19.3420		
				64	28.56	26.91	19.7100	19.3020		
	160MHz		6025	15	SU	--	164.30	164.90	157.3700	157.2000
					242	61	28.42	26.01	19.6070	19.3440
64		30.83				28.93	20.6630	19.5140		
S64		30.37		27.55	19.6290	19.4310				
6185		47		SU	--	161.90	165.70	156.8700	157.2400	
			242	61	26.71	25.53	19.6620	19.3890		
				64	39.81	30.33	20.0370	19.7100		
S64		30.05	27.68	19.7330	19.2890					
6345		79	SU	--	163.40	165.00	157.4000	157.1400		
			242	61	24.65	26.61	19.3380	19.4580		
				64	30.10	28.80	19.8370	19.6890		
				S64	29.86	26.48	19.6400	19.6650		

9.3.3. 802.11be SISO MODE IN THE UNII-7 BAND

UNII-7 (SISO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)		
					Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	6535	117	SU	--	21.88	21.76	19.029	19.059	
			52	37	19.84	20.20	18.24	18.252	
				38	19.52	19.44	17.186	17.312	
	6715	149	SU	--	21.84	21.76	19.036	19.095	
			52	37	18.20	18.13	18.199	18.126	
				38	19.44	19.72	17.066	17.221	
	6855	181	SU	--	21.80	21.84	19.079	19.056	
			52	37	19.92	19.96	18.114	18.304	
				38	19.40	19.84	17.164	17.122	
	40MHz	6565	123	SU	--	42.56	42.56	37.984	37.974
				242	61	40.48	39.60	19.393	19.432
		62	38.48		42.16	19.43	19.364		
6685		147	SU	--	42.32	42.40	38.064	38.073	
			242	61	40.32	42.24	19.453	19.423	
62		42.88		35.20	19.407	19.407			
6845	179	SU	--	42.48	42.72	37.991	38.055		
		242	61	43.20	43.60	19.38	19.457		
			62	45.20	47.28	19.324	19.36		
80MHz (FCC)	6625	135	SU	--	84.48	84.48	77.488	77.468	
			242	61	37.92	38.40	19.573	19.306	
				62	55.52	55.36	19.666	19.732	
				64	39.36	41.44	19.353	19.481	
80 MHz	6705	151	SU	--	81.47	82.13	77.541	77.528	
			242	61	24.99	27.21	19.311	19.363	
				62	31.98	28.25	19.401	19.606	
	6785	167	SU	--	84.00	84.32	77.553	77.566	
			242	61	36.00	36.96	19.392	19.422	
				62	57.28	57.92	19.800	19.554	
64	34.88	38.56	19.288	19.619					
160MHz	6665	143	SU	--	165.70	167.80	157.378	157.44	
			242	61	30.00	26.06	19.576	19.751	
				64	32.55	31.21	19.898	19.566	
				S64	29.05	30.23	19.502	20.108	

9.3.4. 802.11be MIMO CDD MODE IN THE UNII-7 BAND

UNII-7 (MIMO)	Frequency (MHz)	Channel Number	Tone	RU Index	26 dB Bandwidth (MHz)		99% Bandwidth (MHz)	
					Ant 6	Ant 5	Ant 6	Ant 5
20MHz	6535	117	SU	--	21.92	21.72	19.066	19.086
			52	37	20.00	19.60	18.305	18.11
				38	19.50	18.52	17.309	16.864
	6715	153	SU	--	21.80	21.64	19.061	19.064
			52	37	19.87	19.69	18.261	18.126
				38	19.52	18.88	17.179	16.804
	6855	181	SU	--	21.84	21.60	19.073	19.063
			52	37	20.00	19.72	18.321	18.110
				38	19.52	18.72	17.179	16.863
40MHz	6565	123	SU	--	42.40	42.48	38.001	37.948
			242	61	40.88	34.56	19.356	19.289
	6685	147		SU	--	42.56	42.48	38.054
			242	61	40.32	35.84	19.247	19.416
	6845	179		SU	--	42.72	42.16	38.083
			242	61	43.68	38.00	19.427	19.28
80MHz (FCC)	6625	135		SU	--	84.48	84.16	77.475
			242	61	39.68	34.40	19.514	19.603
				62	57.44	53.44	19.634	19.672
				64	37.44	37.60	19.521	19.715
80MHz	6705	151	SU	--	82.16	81.78	77.603	77.472
			242	61	28.17	28.63	19.376	19.569
				62	34.27	31.09	19.638	19.653
	6785	167	SU	--	84.16	84.32	77.497	77.563
			242	61	40.16	35.20	19.611	19.698
				62	59.20	41.92	19.715	19.897
160MHz	6665	143	SU	--	166.00	164.00	157.34	157.24
			242	61	29.94	26.34	19.487	19.661
				64	31.95	35.39	19.749	19.698
			S64	30.19	24.89	19.548	19.556	

9.4. LP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

TEST PROCEDURE

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.3.b (Method PM-G), because the gated power measurement is used the calculation of EIRP power does not include any corrections for duty factor.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

RESULTS

The plots in these sections are for reference settings only for different bandwidth and different antenna ports.

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:

CDD MIMO Tx chains used uncorrelated gain for EIRP calculation and correlated gain for PSD EIRP calculation; SDM MIMO Tx chains used uncorrelated for both EIRP and PSD EIRP calculation. For the straddle channels, the higher antenna gains were chosen between two bands where straddle channels are located. The directional gains are as follows:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	0.30	-2.60	-0.91	1.98
	Sub-band 2 (6115 - 6255)	-0.50	-2.20	-1.27	1.70
	Sub-band 3 (6275 - 6415)	0.30	-2.40	-0.84	2.06
6425 - 6525 UNII-6	N/A	-0.50	-2.50	-1.39	1.57
UNII-6/7 (Straddle Channel)	N/A	-0.50	-1.90	-1.14	1.84
6525 - 6875 UNII-7	N/A	-1.00	-1.90	-1.43	1.57
UNII-7/8 (Straddle Channel)	N/A	-1.00	-1.90	-1.43	1.57
6875 - 7125 UNII-8	N/A	-1.50	-3.60	-2.42	0.52

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

Uncorrelated directional gain= $10 \cdot \text{LOG}((10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})/2)$

Correlated directional Gain= $10 \cdot \text{LOG}(((10^{(\text{Ant6}/20)} + 10^{(\text{Ant5}/20)})^2)/2)$

Sample Calculation at UNII-5 Band:

Ant6= 0.30, Ant5= -2.60

Uncorrelated Antenna gain= $10 \log[(10^{(0.30/10)} + 10^{(-2.60/10)})/2] = -0.91 \text{ dBi}$

Correlated Antenna gain= $10 \log[(10^{(-3.10/20)} + 10^{(-4.70/20)})^2/2] = 1.98 \text{ dBi}$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU (106+26)) Power=6.15 dBm

EIRP corr'd power = 6.15 + (0.30) = 6.45 dBm

2Tx

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})$ + uncorrelated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU (106+26)) Power=2.88 dBm, Ant5 Power=2.54

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(2.88/10)} + 10^{(2.54/10)})$ + (-0.91) = 4.81 dBm

EIRP PSD Calculation:**1Tx**

EIRP corr'd PSD = DCCF + Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU(106+26)) PSD= -2.876 dBm/1MHz

EIRP corr'd PSD = 0 + -2.576 + (0.30) = -2.576 dBm/1MHz

2Tx (CDD)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{Ant6})/10)} + 10^{((\text{DCCF} + \text{Ant5})/10)}))$ + correlated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU(106+26)) PSD=-6.342 dBm/1MHz, Ant5 PSD=-6.545 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-6.342))/10)} + 10^{((0 + (-6.545))/10)}))$ + (1.98) = -1.452 dBm/1MHz

2Tx (SDM)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{C39})/10)} + 10^{((\text{DCCF} + \text{D39})/10)}))$ + uncorrelated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU(106+26)) PSD=-4.633 dBm/1MHz, Ant5 PSD=-4.681 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0 + (-4.633))/10)} + 10^{((0 + (-4.681))/10)}))$ + (-0.91) = -2.557 dBm/1MHz

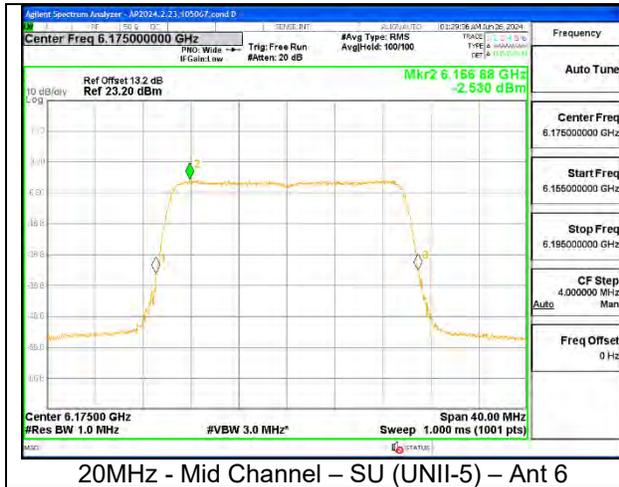
9.4.1. 802.11be SISO MODE IN THE UNII-5 BAND – LOW POWER

LP UNII-5 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)		
	SU	Partial RU							Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	
20MHz	0.00	0.00	0.30	-2.60	5955	1	SU	--	8.23	8.06	8.53	5.46	-3.084	-3.265	-2.784	-5.865	
							106+26	82	5.95	5.94	6.25	3.34	-2.876	-3.112	-2.576	-5.712	
							83	5.9	5.89	6.20	3.29	-3.019	-3.036	-2.719	-5.636		
			-0.50	-2.20	6175	45	SU	--	8.92	8.99	8.42	6.79	-2.53	-2.947	-3.030	-5.147	
							106+26	82	6.62	6.71	6.12	4.51	-2.545	-2.581	-3.045	-4.781	
							83	6.66	6.63	6.16	4.43	-2.171	-2.418	-2.671	-4.618		
	0.30	-2.40	6415	93	SU	--	8.44	8.47	8.74	6.07	-3.129	-2.935	-2.829	-5.335			
					106+26	82	6.15	6.19	6.45	3.79	-3.256	-3.039	-2.956	-5.439			
					83	6.22	6.24	6.52	3.84	-2.581	-3.001	-2.281	-5.401				
	40MHz	0.00	0.00	0.30	-2.60	5965	3	SU	--	11.21	11.1	11.51	8.50	-2.896	-3.19	-2.596	-5.790
								106+26	82	5.8	5.86	6.10	3.26	-3.646	-3.43	-3.346	-6.030
								84	5.85	5.87	6.15	3.27	-3.328	-3.367	-3.028	-5.967	
-0.50				-2.20	6165	43	SU	--	11.92	11.88	11.42	9.68	-2.981	-2.767	-3.481	-4.967	
							106+26	82	6.55	6.59	6.05	4.39	-3.367	-3.173	-3.867	-5.373	
							84	6.57	6.68	6.07	4.48	-3.407	-3.265	-3.907	-5.465		
0.30		-2.40	6405	91	SU	--	11.47	11.41	11.77	9.01	-3.215	-3.326	-2.915	-5.726			
					106+26	82	6.15	6.23	6.45	3.83	-2.88	-4.468	-2.580	-6.868			
					84	6.16	6.19	6.46	3.79	-2.92	-3.952	-2.620	-6.352				
80MHz		0.00	0.00	0.30	-2.60	5985	7	SU	--	14.06	14.14	14.36	11.54	-3.142	-3.258	-2.842	-5.858
								37	1.95	1.79	2.25	-0.81	-2.009	-2.493	-1.709	-5.093	
								45	1.81	1.68	2.11	-0.92	-2.741	-2.387	-2.441	-4.987	
	-0.50			-2.20	6145	39	SU	--	14.95	14.9	14.45	12.70	-2.498	-2.663	-2.998	-4.863	
							37	2.58	2.54	2.08	0.34	-2.699	-2.37	-3.199	-4.570		
							45	2.7	2.52	2.20	0.32	-2.867	-2.874	-3.367	-5.074		
	0.30	-2.40	6385	87	SU	--	14.39	14.32	14.69	11.92	-3.085	-3.215	-2.785	-5.615			
					37	2.15	2.12	2.45	-0.28	-3.517	-3.56	-3.217	-5.960				
					45	2.19	2.1	2.49	-0.30	-3.298	-3.715	-2.998	-6.115				
	160MHz	0.18	0.00	0.30	-2.60	6025	15	SU	--	16.43	16.29	16.73	13.69	-3.370	-3.403	-2.890	-5.823
								484	65	11.15	11.17	11.45	8.57	-3.258	-3.129	-2.958	-5.729
								S66	11.2	11.16	11.50	8.56	-3.287	-3.305	-2.987	-5.905	
-0.50				-2.20	6185	47	SU	--	17.24	17.01	16.74	14.81	-2.980	-3.118	-3.300	-5.138	
							484	65	11.8	11.84	11.30	9.64	-2.544	-2.586	-3.044	-4.786	
							S66	11.95	11.99	11.45	9.79	-2.527	-2.312	-3.027	-4.512		
0.30		-2.40	6345	79	SU	--	16.51	16.73	16.81	14.33	-4.057	-3.680	-3.577	-5.900			
					484	65	11.42	11.26	11.72	8.86	-3.028	-3.274	-2.728	-5.674			
					S66	11.49	11.44	11.79	9.04	-2.985	-2.847	-2.685	-5.247				

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



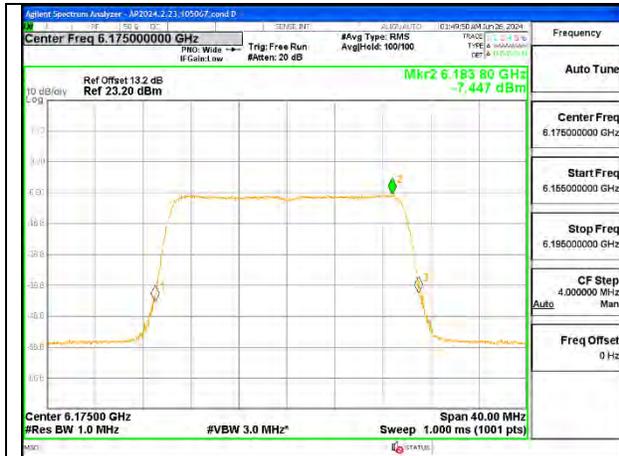
9.4.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – LOW POWER

LP CDD UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)	
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5		
20MHz	0.00	0.00	-0.91	1.98	5955	1	SU	--	3.64	3.71	5.78	-7.792	-7.454	-2.629	
							106+26	82	1.44	1.27	3.46	-7.638	-7.702	-2.680	
							83	1.39	1.32	3.46	-7.536	-7.563	-2.559		
			-1.27	1.70	6175	45	SU	--	4.22	4.06	5.88	-7.447	-7.519	-2.773	
							106+26	82	1.92	1.79	3.60	-6.481	-6.991	-2.018	
							83	1.96	1.62	3.53	-6.464	-7.052	-2.038		
	-0.84	2.06	6415	93	SU	--	3.76	3.97	6.04	-7.502	-7.509	-2.435			
					106+26	82	1.57	1.72	3.82	-7.312	-7.313	-2.242			
					83	1.47	1.71	3.76	-7.445	-7.541	-2.422				
	40MHz	0.00	0.00	-0.91	1.98	5965	3	SU	--	6.61	6.61	8.71	-7.666	-7.833	-2.758
								106+26	82	1.45	1.27	3.46	-7.76	-7.848	-2.813
								84	1.47	1.41	3.54	-7.515	-7.612	-2.573	
-1.27				1.70	6165	43	SU	--	7.20	7.07	8.88	-7.370	-7.817	-2.877	
							106+26	82	1.77	1.99	3.62	-7.987	-7.77	-3.167	
							84	1.95	1.9	3.67	-7.55	-7.706	-2.917		
-0.84		2.06	6405	91	SU	--	6.87	6.84	9.03	-7.925	-8.032	-2.908			
					106+26	82	1.52	1.74	3.80	-7.549	-8.871	-3.090			
					84	1.62	1.71	3.84	-7.431	-7.968	-2.621				
80MHz		0.00	0.00	-0.91	1.98	5985	7	SU	--	9.58	9.72	11.75	-7.454	-7.506	-2.490
								52	37	-2.52	-2.59	-0.45	-7.419	-7.861	-2.644
								45	-2.53	-2.61	-0.47	-7.643	-7.812	-2.736	
	-1.27			1.70	6145	39	SU	--	10.16	10.22	11.93	-7.709	-8.024	-3.153	
							52	37	-2.09	-2.09	-0.35	-7.46	-7.481	-2.760	
							45	-2.15	-2.12	-0.39	-7.335	-8.575	-3.201		
	-0.84	2.06	6385	87	SU	--	9.82	9.94	12.05	-7.617	-7.545	-2.511			
					52	37	-2.27	-2.28	-0.10	-7.887	-7.964	-2.855			
					45	-2.31	-2.26	-0.11	-8.109	-7.559	-2.755				
	160MHz	0.18	0.00	-0.91	1.98	6025	15	SU	--	11.93	11.92	14.03	-8.613	-8.162	-3.211
								484	65	6.65	6.59	8.72	-7.27	-7.739	-2.508
								566	6.63	6.52	8.68	-7.767	-7.861	-2.823	
-1.27				1.70	6185	47	SU	--	12.39	12.37	14.12	-7.786	-7.773	-2.889	
							484	65	7.2	7.24	8.96	-7.102	-7.299	-2.489	
							566	7.15	7.22	8.93	-7.204	-7.768	-2.767		
-0.84		2.06	6345	79	SU	--	12.06	12.18	14.29	-8.459	-8.216	-3.086			
					484	65	6.8	6.2	8.68	-7.674	-7.527	-2.530			
					566	6.99	6.78	9.06	-7.542	-7.596	-2.499				

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

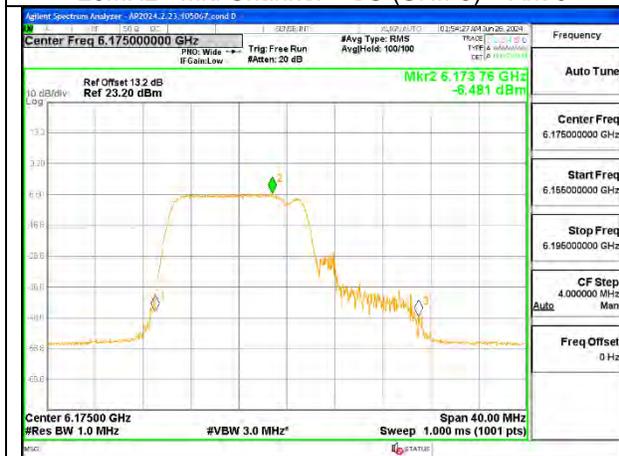
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



20MHz - Mid Channel – SU (UNII-5) – Ant 6



20MHz - Mid Channel – SU (UNII-5) – Ant 5



20MHz - Mid Ch (106+26)T RU82 (UNII-5) – Ant 6



20MHz - Mid Ch (106+26)T RU82 (UNII-5) – Ant 5

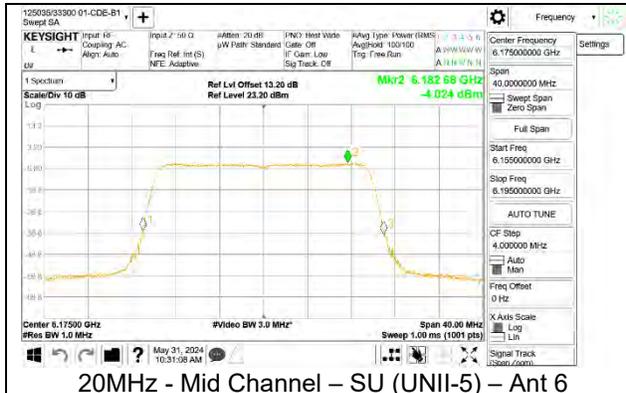
9.4.3. 802.11be MIMO SDM MODE IN THE UNII-5 BAND – LOW POWER

LP SDM UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)	
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5		
20MHz	0.11	0.00	-0.91	1.98	5955	1	SU	--	6.67	6.63	8.75	-4.887	-4.931	-2.699	
							106+26	82	4.42	4.42	6.52	-4.633	-4.681	-2.557	
							83	4.45	4.39	6.52	-4.661	-4.537	-2.498		
			-1.27	1.70	6175	45	SU	--	7.17	7.08	8.87	-4.024	-4.495	-2.403	
							106+26	82	4.92	4.93	6.67	-4.536	-4.573	-2.814	
							83	4.95	4.99	6.71	-4.678	-4.599	-2.898		
	-0.84	2.06	6415	93	SU	--	6.70	6.57	8.81	-5.110	-5.111	-2.830			
					106+26	82	4.45	4.40	6.60	-4.854	-5.084	-2.797			
					83	4.49	4.48	6.66	-4.938	-4.734	-2.665				
	40MHz	0.11	0.00	-0.91	1.98	5965	3	SU	--	9.65	9.72	11.79	-4.910	-5.093	-2.790
								106+26	82	4.49	4.49	6.59	-5.144	-4.983	-2.962
								84	4.39	4.45	6.52	-5.065	-4.814	-2.837	
-1.27				1.70	6165	43	SU	--	10.16	10.15	11.90	-4.013	-4.313	-2.310	
							106+26	82	4.92	4.83	6.62	-5.581	-5.109	-3.598	
							84	4.95	4.98	6.71	-5.329	-5.399	-3.624		
-0.84		2.06	6405	91	SU	--	9.63	9.70	11.84	-5.258	-5.352	-3.024			
					106+26	82	4.40	4.45	6.60	-5.104	-4.855	-2.807			
					84	4.44	4.49	6.64	-4.646	-4.835	-2.569				
80MHz		0.13	0.00	-0.91	1.98	5985	7	SU	--	12.72	12.74	14.83	-5.328	-5.123	-2.994
								52	37	0.44	0.49	2.57	-4.929	-4.983	-2.856
								45	0.48	0.34	2.51	-5.263	-5.163	-3.112	
	-1.27			1.70	6145	39	SU	--	13.24	13.16	14.94	-5.283	-5.395	-3.468	
							52	37	0.90	0.97	2.68	-5.265	-5.195	-3.490	
							45	0.98	0.84	2.65	-4.986	-5.081	-3.293		
	-0.84	2.06	6385	87	SU	--	12.55	12.50	14.70	-4.477	-5.104	-2.479			
					52	37	0.38	0.36	2.54	-4.989	-4.871	-2.759			
					45	0.20	0.31	2.43	-5.086	-5.157	-2.951				
	160MHz	0.17	0.00	-0.91	1.98	6025	15	SU	--	14.95	14.97	17.06	-5.501	-5.459	-3.210
								484	65	9.70	9.67	11.79	-4.848	-4.667	-2.656
								S66	9.67	9.73	11.80	-4.788	-4.471	-2.526	
-1.27				1.70	6185	47	SU	--	15.48	15.49	17.23	-5.493	-5.367	-3.519	
							484	65	10.23	10.21	11.96	-4.192	-4.405	-2.557	
							S66	10.21	10.24	11.97	-4.365	-4.406	-2.645		
-0.84		2.06	6345	79	SU	--	14.92	14.93	17.10	-5.848	-5.902	-3.535			
					484	65	9.66	9.70	11.85	-5.097	-5.003	-2.879			
					S66	9.70	9.74	11.89	-5.059	-4.745	-2.729				

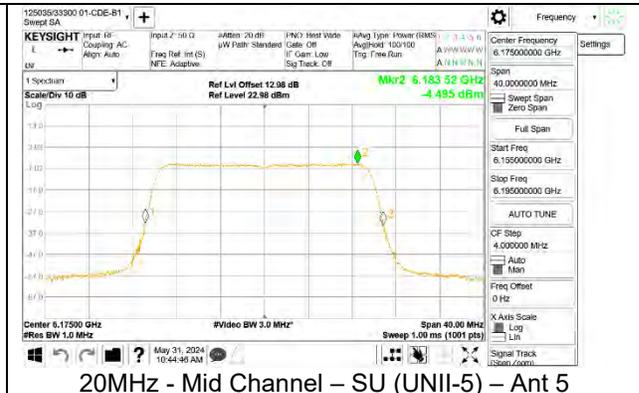
Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



20MHz - Mid Channel – SU (UNII-5) – Ant 6



20MHz - Mid Channel – SU (UNII-5) – Ant 5



20MHz - Mid Ch (106+26)T RU82 – Ant 6



20MHz - Mid Ch (106+26)T RU82 (UNII-5) – Ant 5

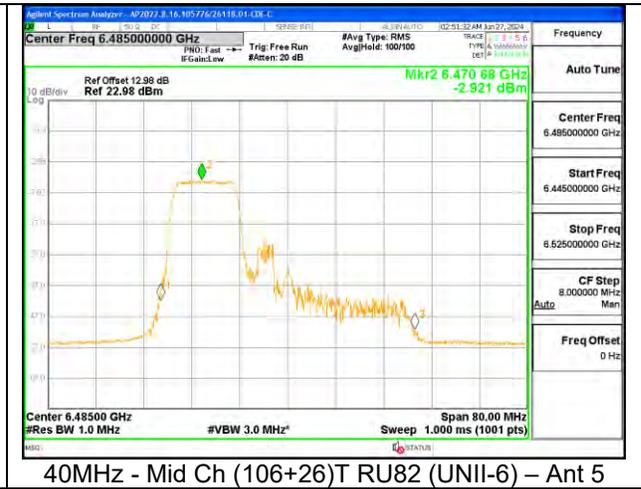
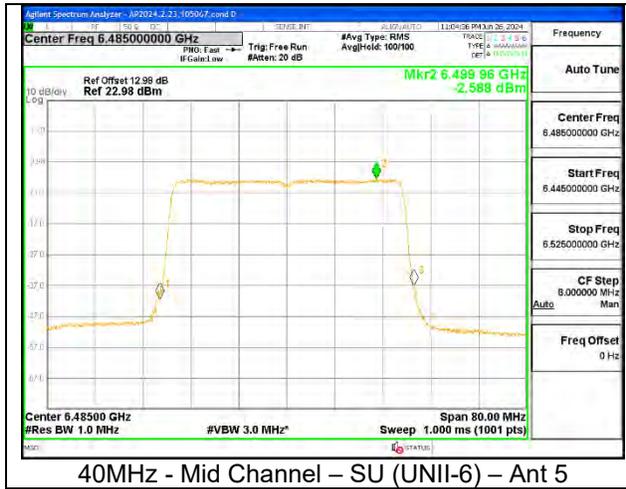
9.4.4. 802.11be SISO MODE IN THE UNII-6 BAND – LOW POWER

LP UNII-6 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)		
	SU	Partial RU							Ant 6	Ant 5	Ant 1	Ant 2	Ant 6	Ant 5	Ant 1	Ant 2	
20MHz	0.00	0.00	-0.50	-2.50	6435	1	SU	--	8.99	8.92	8.49	6.42	-3.011	-2.597	-3.511	-5.097	
							106+26	82	6.70	6.67	6.20	4.17	-2.930	-2.782	-3.430	-5.282	
								83	6.71	6.62	6.21	4.12	-2.639	-2.367	-3.139	-4.867	
					6475	45	SU	--	8.95	8.73	8.45	6.23	-2.660	-2.802	-3.160	-5.302	
							106+26	82	6.65	6.67	6.15	4.17	-2.283	-2.314	-2.783	-4.814	
								83	6.61	6.69	6.11	4.19	-2.478	-2.098	-2.978	-4.598	
	6515	93	SU	--	8.95	8.87	8.45	6.37	-2.597	-2.627	-3.097	-5.127					
			106+26	82	6.56	6.6	6.06	4.10	-2.456	-2.350	-2.956	-4.850					
				83	6.56	6.64	6.06	4.14	-2.479	-2.514	-2.979	-5.014					
	40MHz	0.00	0.00	-0.50	-2.50	6445	99	SU	--	11.88	11.97	11.38	9.47	-2.792	-2.333	-3.292	-4.833
								106+26	82	6.71	6.7	6.21	4.20	-3.167	-3.277	-3.667	-5.777
									84	6.74	6.74	6.24	4.24	-2.967	-2.742	-3.467	-5.242
6485						107	SU	--	11.85	11.95	11.35	9.45	-2.191	-2.588	-2.691	-5.088	
							106+26	82	6.59	6.63	6.09	4.13	-3.309	-2.921	-3.809	-5.421	
								84	6.58	6.65	6.08	4.15	-2.882	-2.529	-3.382	-5.029	
6525 (Straddle)		115	SU	--	11.88	11.75	11.38	9.85	-2.194	-2.429	-2.694	-4.329					
			106+26	82	6.74	6.57	6.24	4.67	-3.168	-3.152	-3.668	-5.052					
				84	6.70	6.6	6.20	4.70	-2.839	-2.736	-3.339	-4.636					
80MHz		0.00	0.00	-0.50	-2.50	6465	103	SU	--	14.89	14.92	14.39	12.42	-2.552	-2.338	-3.052	-4.838
								52	37	2.66	2.71	2.16	0.21	-2.654	-2.256	-3.154	-4.756
									45	2.56	2.7	2.06	0.20	-2.689	-2.436	-3.189	-4.936
	6505 (Straddle)					111	SU	--	17.15	17.11	16.65	15.21	-3.048	-2.910	-3.368	-4.630	
							484	65	11.81	11.92	11.31	10.02	-2.721	-2.044	-3.221	-3.944	
							S66	11.97	11.89	11.47	9.99	-2.479	-2.480	-2.979	-4.380		

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



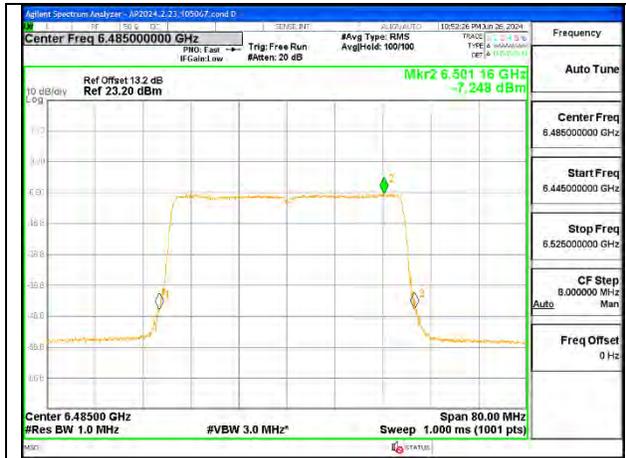
9.4.5. 802.11be MIMO CDD MODE IN THE UNII-6 BAND – LOW POWER

LP CDD UNII-6 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)				
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5					
20MHz	0.00	0.00	-1.39	1.57	6435	97	SU	--	4.10	4.16	5.75	-7.681	-7.448	-2.983				
							106+26	82	1.95	1.80	3.50	-7.282	-7.284	-2.703				
							83	1.97	1.75	3.48	-7.521	-7.345	-2.852					
					6475	105	SU	--	4.19	4.12	5.78	-7.269	-7.497	-2.801				
							106+26	82	1.91	1.93	3.54	-7.368	-7.383	-2.795				
							83	1.91	1.97	3.56	-7.227	-7.211	-2.639					
					6515	113	SU	--	4.13	4.24	5.81	-7.463	-7.528	-2.915				
							106+26	82	1.79	1.93	3.48	-7.344	-7.024	-2.601				
							83	1.75	1.92	3.46	-7.687	-6.997	-2.748					
40MHz	0.00	0.00	-1.39	1.57	6445	99	SU	--	7.24	7.06	8.77	-7.044	-7.239	-2.560				
							106+26	82	1.95	1.86	3.53	-7.166	-7.774	-2.879				
							85	1.91	1.97	3.56	-7.322	-7.193	-2.677					
					6485	107	SU	--	7.13	7.18	8.78	-7.248	-6.973	-2.528				
							106+26	82	1.85	1.87	3.48	-7.450	-7.649	-2.968				
							84	1.80	1.92	3.48	-7.895	-7.093	-2.895					
			-1.14	1.84	6525 (Straddle)	115	106+26	85	1.91	1.95	3.55	-7.452	-7.346	-2.818				
							SU	--	6.92	6.87	8.77	-7.685	-8.525	-3.234				
							82	1.68	1.7	3.56	-7.276	-7.029	-2.300					
					80MHz	0.00	-1.39	1.57	6465	103	106+26	84	1.74	1.73	3.61	-7.298	-7.515	-2.555
											85	1.55	1.72	3.51	-7.518	-7.32	-2.568	
											SU	--	10.2	10.1	11.77	-6.85	-6.932	-2.311
160MHz	0.18	0.00	-1.14	1.84	6505 (Straddle)	111	52	37	-2.12	-2.15	-0.51	-7.494	-7.72	-3.025				
							45	-2.16	-2.18	-0.55	-7.611	-7.518	-2.984					
							52	-2.06	-2.14	-0.48	-7.412	-7.019	-2.631					
160MHz	0.18	0.00	-1.14	1.84	6505 (Straddle)	111	SU	--	12.12	12.23	14.05	-8.054	-8.145	-3.069				
							484	65	6.88	6.73	6.68	-7.635	-7.554	-2.744				
							S66	6.94	6.79	8.74	-7.524	-7.512	-2.668					

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

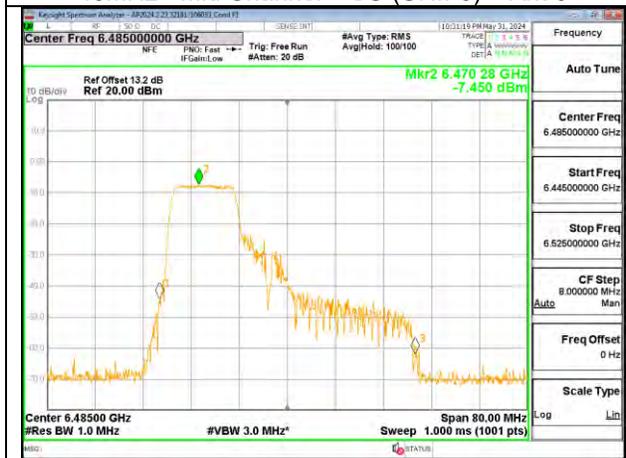
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



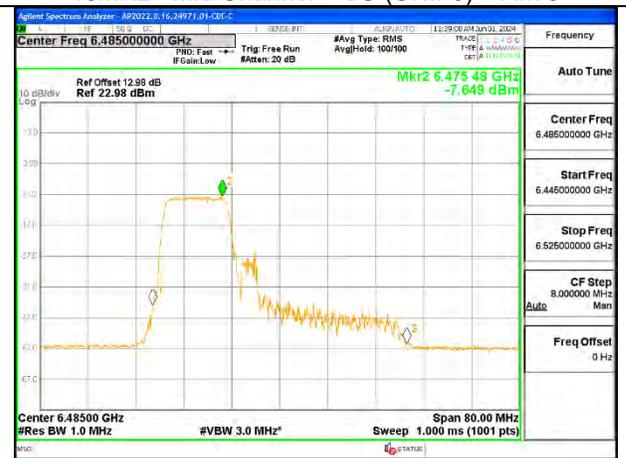
40MHz - Mid Channel – SU (UNII-6) – Ant 6



40MHz - Mid Channel – SU (UNII-6) – Ant 5



40MHz - Mid Ch (106+26)T RU82 (UNII-6) – Ant 6



40MHz - Mid Ch (106+26)T RU82 (UNII-6) – Ant 5

9.4.6. 802.11be MIMO SDM MODE IN THE UNII-6 BAND – LOW POWER

LP SDM UNII-6 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5	
20MHz	0.11	0.00	-1.39	1.57	6435	97	SU	--	6.82	6.91	8.49	-4.666	-4.770	-2.987
							106+26	82	4.65	4.74	6.32	-4.65	-4.465	-2.936
							83	4.74	4.62	6.30	-4.644	-4.621	-3.012	
					6475	105	SU	--	6.98	6.99	8.61	-4.585	-4.623	-2.874
							106+26	82	4.70	4.74	6.34	-4.427	-4.647	-2.915
							83	4.73	4.63	6.30	-4.407	-4.717	-2.939	
					6515	113	SU	--	6.83	6.89	8.48	-4.779	-4.717	-3.018
							106+26	82	4.70	4.60	6.27	-4.45	-4.791	-2.997
							83	4.70	4.70	6.32	-4.586	-4.692	-3.018	
40MHz	0.11	0.00	-1.39	1.57	6445	97	SU	--	9.78	9.94	11.48	-4.360	-4.520	-2.709
							106+26	82	4.70	4.55	6.25	-4.789	-4.965	-3.256
							84	4.69	4.68	6.31	-4.742	-4.807	-3.154	
					6485	105	85	4.68	4.60	6.26	-4.881	-4.921	-3.281	
							SU	--	9.99	9.73	11.48	-4.372	-4.353	-2.632
							106+26	82	4.72	4.58	6.27	-4.783	-4.875	-3.208
			-1.14	1.84	6525 (Straddle)	115	84	4.60	4.53	6.19	-4.596	-4.993	-3.170	
							85	4.58	4.64	6.23	-4.739	-4.69	-3.094	
							SU	--	9.88	9.97	11.80	-4.542	-4.501	-2.541
					106+26	82	4.56	4.51	6.41	-4.844	-4.901	-3.002		
						84	4.65	4.58	6.49	-4.617	-4.597	-2.737		
						85	4.68	4.60	6.51	-4.47	-4.76	-2.742		
80MHz	0.13	0.00	-1.39	1.57	6465	103	SU	--	12.98	12.90	14.56	-4.190	-4.246	-2.468
							52	37	0.63	0.69	2.28	-4.312	-4.329	-2.700
							45	0.67	0.69	2.30	-4.582	-4.401	-2.870	
							52	0.74	0.74	2.36	-4.494	-4.132	-2.689	
							566	9.99	9.89	11.81	-4.298	-4.668	-2.609	
160MHz	0.17	0.00	-1.14	1.84	6505 (Straddle)	111	SU	--	15.16	15.24	17.07	-4.634	-4.324	-2.436
							484	65	9.96	9.91	11.81	-4.489	-4.237	-2.491
							566	9.99	9.89	11.81	-4.298	-4.668	-2.609	
							566	9.99	9.89	11.81	-4.298	-4.668	-2.609	

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)

9.4.7. 802.11be SISO MODE IN THE UNII-7 BAND – LOW POWER

LP UNII-7 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)					
	SU	Partial RU							Ant 6	Ant 5	Ant 1	Ant 2	Ant 6	Ant 5	Ant 1	Ant 2				
20MHz	0.00	0.00	-1.00	-1.90	6535	117	SU	--	9.70	9.70	8.70	7.80	-2.007	-1.847	-3.007	-3.747				
							26	0	0.71	0.67	-0.29	-1.23	-1.931	-1.847	-2.931	-3.747				
								4	0.65	0.72	-0.35	-1.18	-2.420	-2.624	-3.420	-4.524				
								8	0.68	0.68	-0.32	-1.22	-1.903	-1.841	-2.903	-3.741				
							26	0	9.53	9.74	8.53	7.84	-1.750	-1.627	-2.750	-3.527				
								4	0.57	0.72	-0.43	-1.18	-1.745	-1.545	-2.745	-3.445				
	8	0.69	0.73	-0.31	-1.17	-2.531		-2.521	-3.531	-4.421										
	-1.00	-1.90	6875 (Straddle)	185	SU	--	9.70	9.61	8.70	7.71	-1.822	-1.627	-2.822	-3.527						
					26	0	0.56	0.53	-0.44	-1.37	-1.803	-1.791	-2.803	-3.691						
						4	0.58	0.52	-0.42	-1.38	-2.668	-2.593	-3.668	-4.493						
						8	0.72	0.66	-0.28	-1.24	-1.598	-1.743	-2.598	-3.643						
					40MHz	0.00	0.00	-1.00	-1.90	6565	123	SU	--	12.74	12.59	11.74	10.69	-1.616	-1.848	-2.616
106+26												82	7.38	7.37	6.38	5.47	-1.422	-1.614	-2.422	-3.514
	84	7.48	7.24	6.48								5.34	-1.434	-1.628	-2.434	-3.528				
	85	7.32	7.48	6.32								5.58	-1.492	-1.404	-2.492	-3.304				
106+26	82	12.73	12.66	11.73								10.76	-1.660	-1.766	-2.660	-3.666				
	84	7.48	7.27	6.48								5.37	-1.303	-1.545	-2.303	-3.445				
	85	7.36	7.44	6.36		5.54	-1.388	-1.632	-2.388	-3.532										
-1.00	-1.90	6685	147	SU		--	12.73	12.62	11.69	10.72	-1.821	-1.530	-2.821	-3.430						
				106+26		82	7.3	7.46	6.30	5.56	-1.45	-1.322	-2.450	-3.222						
						84	7.36	7.45	6.36	5.55	-1.204	-1.71	-2.204	-3.610						
						85	7.32	7.3	6.32	5.40	-1.143	-1.306	-2.143	-3.206						
				6845		179	SU	--	12.69	12.62	11.69	10.72	-1.821	-1.530	-2.821	-3.430				
					106+26		82	7.3	7.46	6.30	5.56	-1.45	-1.322	-2.450	-3.222					
84	7.36	7.45	6.36				5.55	-1.204	-1.71	-2.204	-3.610									
85	7.32	7.3	6.32				5.40	-1.143	-1.306	-2.143	-3.206									
80MHz	0.00	0.00	-0.50		-1.90		6545 (Straddle)	119	SU	--	14.96	14.75	14.46	12.85	-2.018	-2.304	-2.518	-4.204		
									52	37	2.65	2.59	2.15	0.69	-2.284	-2.243	-2.784	-4.143		
				45		2.66				2.57	2.16	0.67	-2.921	-2.824	-3.421	-4.724				
				52		2.56				2.59	2.06	0.69	-2.325	-2.687	-2.825	-4.587				
				52		37			15.70	15.69	14.70	13.79	-1.682	-1.789	-2.682	-3.689				
						45			3.41	3.27	2.41	1.37	-2.365	-1.665	-3.365	-3.565				
	52	3.33	3.36		2.33	1.46	-2.341	-1.450	-3.341	-3.350										
	-1.00	-1.90	6705	151	SU	--	15.70	15.69	14.70	13.79	-1.682	-1.789	-2.682	-3.689						
					52	37	3.41	3.27	2.41	1.37	-2.365	-1.665	-3.365	-3.565						
						45	3.33	3.36	2.33	1.46	-2.341	-1.450	-3.341	-3.350						
						52	3.36	3.35	2.36	1.45	-2.569	-1.589	-3.569	-3.489						
					-1.00	-1.90	6865 (Straddle)	183	SU	--	15.66	15.71	14.66	13.81	-1.838	-1.749	-2.838	-3.649		
52									37	3.44	3.24	2.44	1.34	-2.635	-2.065	-3.635	-3.965			
	45	3.10	3.20	2.10					1.30	-2.059	-1.877	-3.059	-3.777							
	52	3.46	3.20	2.46					1.30	-2.704	-1.563	-3.704	-3.463							
160MHz	0.18	0.00	-1.00	-1.90					6665	143	SU	--	17.92	17.92	16.92	16.02	-2.369	-2.333	-3.189	-4.053
											484	65	12.70	12.73	11.70	10.83	-1.494	-1.471	-2.494	-3.371
					S66	12.64	12.65	11.64				10.75	-1.782	-1.552	-2.782	-3.452				
					SU	--	17.75	17.95				16.75	-1.90	-2.189	-1.999	-3.009	-3.719			
					484	65	12.65	12.69			11.65	10.79	-1.725	-1.698	-2.725	-3.598				
						S66	12.54	12.51			11.54	10.61	-1.531	-1.840	-2.531	-3.740				

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



80MHz - Mid Channel – SU (UNII-7) – Ant 6



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 6

9.4.8. 802.11be MIMO CDD MODE IN THE UNII-7 BAND – LOW POWER

LP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5	
20MHz	0.00	0.00	-1.43	1.57	6535	117	SU	--	3.97	3.67	5.40	-7.234	-7.721	-2.890
							0	-5.24	-5.27	-3.67	-7.47	-7.838	-3.070	
							4	-5.02	-5.29	-3.57	-8.472	-8.926	-4.113	
					8	-5.01	-5.34	-3.59	-6.963	-7.741	-2.754			
					SU	--	3.98	3.75	5.45	-7.514	-7.539	-2.946		
					0	-5.08	-5.19	-3.55	-7.86	-7.738	-3.218			
			4	-5.16	-5.19	-3.59	-8.84	-8.654	-4.166					
			8	-5.08	-5.1	-3.51	-7.345	-7.591	-2.886					
			SU	--	3.85	3.90	5.46	-7.771	-7.438	-3.021				
			0	-5.06	-5.15	-3.52	-8.066	-7.871	-3.387					
			4	-5.17	-5.15	-3.58	-8.541	-8.72	-4.049					
			8	-5.27	-5.07	-3.59	-8.175	-8.065	-3.539					
40MHz	0.00	0.00	-1.43	1.57	6565	123	SU	--	6.90	6.92	8.49	-7.202	-7.697	-2.862
							82	1.55	1.7	3.21	-7.317	-7.467	-2.811	
							84	1.59	1.66	3.21	-7.24	-7.636	-2.853	
							85	1.51	1.72	3.20	-7.333	-7.583	-2.876	
							SU	--	6.92	6.89	8.49	-7.05	-7.235	-2.561
							82	1.7	1.66	3.26	-7.327	-7.531	-2.848	
					84	1.69	1.69	3.27	-7.179	-7.205	-2.612			
					85	1.71	1.5	3.19	-7.17	-7.434	-2.720			
					SU	--	6.91	6.81	8.44	-7.303	-7.562	-2.850		
					82	1.69	1.6	3.23	-7.26	-7.134	-2.616			
					84	1.65	1.72	3.27	-7.109	-7.493	-2.716			
					85	1.65	1.68	3.25	-7.284	-7.357	-2.740			
80MHz	0.00	0.00	-1.14	1.84	6545 (Straddle)	119	SU	--	9.74	9.97	11.73	-7.471	-7.245	-2.506
							37	-2.26	-2.40	-0.46	-7.399	-7.705	-2.699	
							45	-2.27	-2.30	-0.41	-8.129	-7.878	-3.151	
							52	-2.29	-2.30	-0.42	-7.677	-7.871	-2.923	
			SU	--	9.93	9.94	11.52	-7.921	-7.629	-3.192				
			37	-2.50	-2.35	-0.84	-8.196	-7.678	-3.349					
			45	-2.35	-2.42	-0.80	-8.135	-7.941	-3.457					
			52	-2.40	-2.28	-0.76	-7.762	-7.334	-2.962					
			SU	--	9.92	9.89	11.49	-7.815	-7.685	-3.169				
			37	-2.32	-2.42	-0.79	-8.103	-7.986	-3.464					
			45	-2.34	-2.44	-0.81	-8.042	-8.041	-3.461					
			52	-2.35	-2.47	-0.83	-7.536	-7.785	-3.078					
160MHz	0.18	0.00	-1.43	1.57	6665	143	SU	--	12.24	12.15	13.78	-8.028	-8.306	-3.404
							65	6.81	6.80	8.39	-7.659	-7.817	-3.157	
							S66	6.95	6.85	8.48	-7.554	-7.709	-3.051	
			SU	--	12.11	12.08	13.68	-8.325	-8.381	-3.593				
			65	6.75	6.72	8.32	-7.530	-7.581	-2.975					
			S66	6.91	6.75	8.41	-7.487	-7.658	-2.991					

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)



80MHz - Mid Channel - SU (UNII-7) - Ant 6



80MHz - Mid Channel - SU (UNII-7) - Ant 5



80MHz - Mid Channel - 52T RU37 (UNII-7) - Ant 6



80MHz - Mid Channel - 52T RU37 (UNII-7) - Ant 5

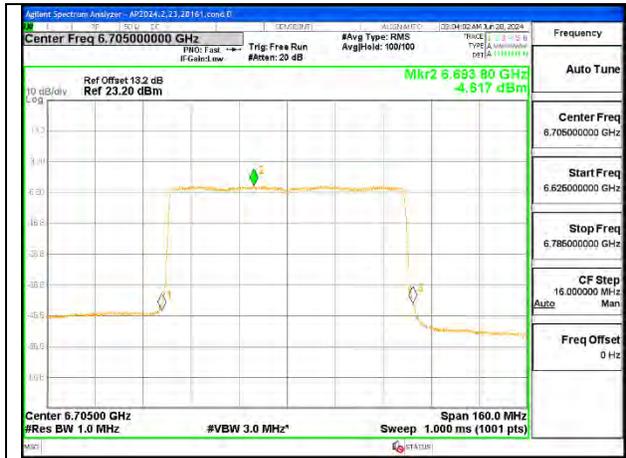
9.4.9. 802.11be MIMO SDM MODE IN THE UNII-7 BAND – LOW POWER

LP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5	
20MHz	0.11	0.00	-1.43	1.57	6535	117	SU	--	6.98	6.99	8.57	-4.758	-4.521	-2.948
							0	-2.05	-2.01	-0.45	-4.634	-4.533	-3.003	
							4	-2.09	-2.02	-0.47	-5.036	-5.387	-3.628	
					8	-2.01	-2.13	-0.49	-4.714	-5.033	-3.290			
					SU	--	6.91	6.99	8.53	-4.8	-4.736	-3.078		
					0	-2.1	-2.02	-0.48	-5.001	-4.836	-3.337			
			4	-2.07	-2.01	-0.46	-5.297	-5.541	-3.837					
			8	-2.05	-2.14	-0.51	-4.75	-4.7	-3.145					
			SU	--	6.83	6.91	8.45	-4.952	-4.888	-3.230				
			0	-2.08	-2.15	-0.53	-5.048	-4.874	-3.380					
			4	-2.05	-2.1	-0.49	-5.854	-6.037	-4.364					
			8	-2.15	-2.13	-0.56	-5.04	-4.91	-3.394					
40MHz	0.11	0.00	-1.43	1.57	6565	123	SU	--	9.84	9.80	11.40	-4.525	-4.715	-2.929
							82	4.57	4.58	6.16	-5.269	-4.494	-3.284	
							84	4.61	4.65	6.21	-4.818	-4.726	-3.191	
					85	4.7	4.62	6.24	-4.832	-4.808	-3.240			
					SU	--	9.91	9.92	11.50	-4.618	-4.752	-2.994		
					82	4.63	4.55	6.20	-5.108	-4.814	-3.378			
			84	4.55	4.6	7.55	-5.285	-4.611	-3.355					
			85	4.65	4.52	6.17	-5.172	-4.751	-3.376					
			SU	--	9.87	9.95	11.49	-5.281	-4.96	-3.427				
			82	4.54	4.61	6.16	-5.154	-4.974	-3.483					
			84	4.66	4.63	6.23	-5.001	-5.171	-3.505					
			85	4.55	4.62	6.17	-5.207	-5.084	-3.565					
80MHz	0.13	0.00	-1.14	1.84	6545 (Straddle)	119	SU	--	12.80	12.78	14.66	-4.418	-4.613	-2.514
							37	0.68	0.69	2.56	-5.322	-5.438	-3.509	
							45	0.61	0.74	2.55	-5.578	-5.219	-3.524	
			52	0.62	0.74	2.55	-5.329	-5.194	-3.391					
			SU	--	12.91	12.90	14.49	-4.617	-4.746	-2.971				
			37	0.71	0.66	2.27	-4.381	-5.16	-3.173					
			45	0.73	0.73	2.31	-4.459	-5.391	-3.320					
			52	0.62	0.74	2.26	-4.369	-5.3	-3.229					
			SU	--	12.99	12.98	14.57	-4.893	-4.915	-3.194				
			37	0.6	0.61	2.19	-5.198	-5.442	-3.738					
			45	0.6	0.58	2.17	-5.218	-5.59	-3.820					
			52	0.66	0.67	2.25	-5.129	-5.493	-3.727					
160MHz	0.17	0.00	-1.43	1.57	6665	143	SU	--	15.20	15.17	16.77	-5.198	-5.137	-3.417
							65	9.96	9.94	11.53	-4.245	-4.59	-2.834	
							S66	9.95	9.91	11.51	-4.383	-4.164	-2.692	
			SU	--	15.22	15.20	16.79	-5.188	-5.323	-3.505				
			65	9.87	9.88	11.46	-4.242	-4.242	-2.662					
			S66	9.83	9.85	11.42	-4.454	-4.541	-1.487					

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



80MHz - Mid Channel – SU (UNII-7) – Ant 6



80MHz - Mid Channel – SU (UNII-7) – Ant 5



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 6



80MHz - Mid Channel – 52T RU37 (UNII-7) – Ant 5

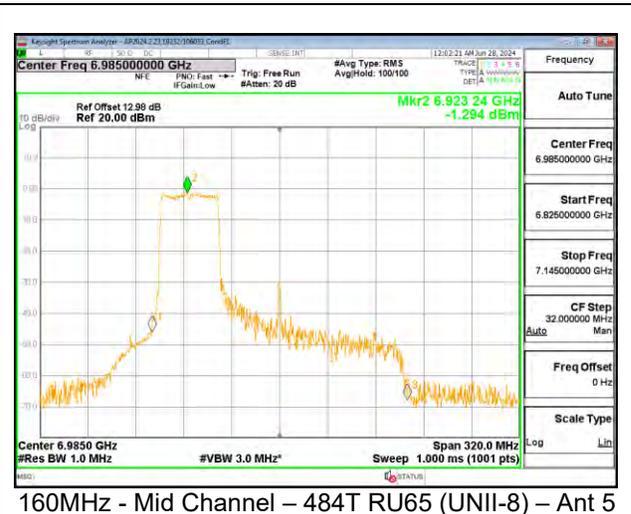
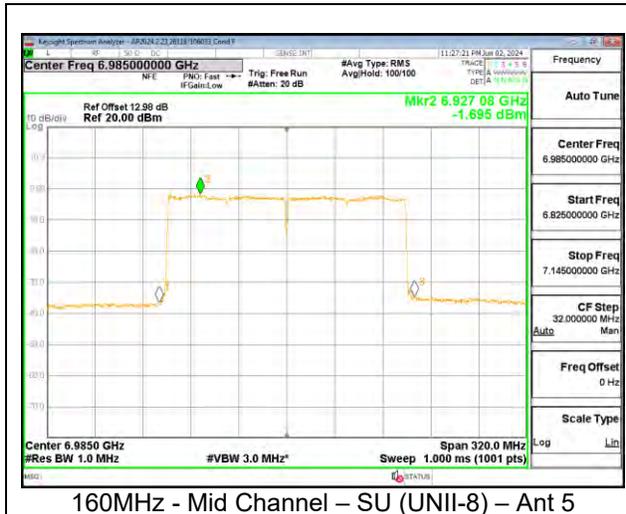
9.4.10. 802.11be SISO MODE IN THE UNII-8 BAND – LOW POWER

LP UNII-8 (SISO)	Duty Factor (dB)		Ant 1 Gain (dBi)	Ant 2 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 24dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = -1 dBm/MHz EIRP)						
	SU	Partial RU							Ant 6	Ant 5	Ant 1	Ant 2	Ant 6	Ant 5	Ant 1	Ant 2					
20MHz	0.00	0.00	-1.50	-3.60	6895	189	SU	--	10.23	10.13	8.73	6.53	-1.024	-1.358	-2.524	-4.958					
							106+26	82	7.93	7.91	6.43	4.31	-1.157	-1.05	-2.657	-4.650					
								83	7.82	7.94	6.32	4.34	-1.016	-1.054	-2.516	-4.654					
							SU	--	10.13	10.19	8.63	6.59	-1.202	-1.022	-2.702	-4.622					
							106+26	82	7.94	7.97	6.44	4.37	-1.181	-1.202	-2.681	-4.802					
								83	7.95	7.91	6.45	4.31	-1.108	-1.248	-2.608	-4.848					
					6995	209	SU	--	10.06	10.24	8.56	6.64	-1.363	-1.209	-2.863	-4.809					
							106+26	82	7.88	7.86	6.38	4.26	-1.424	-1.326	-2.924	-4.926					
								83	7.96	7.80	6.46	4.20	-1.371	-1.325	-2.871	-4.925					
							SU	--	-5.58	-5.67	-7.08	-9.27	-17.547	-17.513	-19.047	-21.113					
							7095	229	SU	--	12.61	12.68	11.61	10.78	-1.621	-1.291	-2.621	-3.191			
									106+26	82	7.46	7.46	6.46	5.56	-1.284	-1.284	-2.284	-3.184			
40MHz	0.00	0.00	-1.00	-1.90	6885 (Straddle)	187	106+26	84	7.37	7.41	6.37	5.51	-1.322	-1.489	-2.322	-3.389					
								85	7.45	7.31	6.45	5.41	-1.332	-1.671	-2.332	-3.571					
							SU	--	13.22	13.12	11.72	9.52	-1.621	-1.174	-3.121	-4.774					
								82	7.98	7.88	6.48	4.28	-1.084	-1.229	-2.584	-4.829					
							106+26	84	7.85	7.92	6.35	4.32	-1.319	-1.213	-2.819	-4.813					
								85	7.96	7.87	6.46	4.27	-1.064	-1.264	-2.564	-4.864					
			6965	203	SU	--	13.21	13.24	11.71	9.64	-1.621	-1.621	-3.121	-5.221							
					106+26	82	7.88	7.86	6.38	4.26	-1.354	-1.536	-2.854	-5.136							
						84	7.98	7.91	6.48	4.31	-1.247	-1.569	-2.747	-5.169							
						85	7.95	7.87	6.45	4.27	-1.341	-1.698	-2.841	-5.298							
					7085	227	SU	--	16.16	16.05	14.66	12.45	-1.007	-1.222	-2.507	-4.822					
							106+26	65	13.16	13.06	11.66	9.46	-1.402	-1.505	-2.902	-5.105					
			80MHz	0.00	0.00	-1.50	-3.60	6945	199	484	66	13.21	13.12	11.71	9.52	-1.114	-1.112	-2.614	-4.712		
											SU	--	16.18	16.22	14.68	12.62	-1.254	-1.581	-2.754	-5.181	
											65	13.15	13.23	11.65	9.63	-1.585	-1.797	-3.085	-5.397		
											66	13.07	13.16	11.57	9.56	-1.602	-1.746	-3.102	-5.346		
										7025	215	SU	--	18.39	18.48	16.89	14.88	-1.605	-1.695	-2.925	-5.115
												484	65	13.24	13.17	11.74	9.57	-1.268	-1.294	-2.768	-4.894
160MHz	0.18	0.00				-1.50	-3.60	6985	207	SU	--	13.07	13.16	11.57	9.56	-1.602	-1.746	-3.102	-5.346		
											484	65	13.24	13.17	11.74	9.57	-1.268	-1.294	-2.768	-4.894	
											S66	13.2	13.23	11.70	9.63	-1.425	-1.572	-2.925	-5.172		
											65	13.24	13.17	11.74	9.57	-1.268	-1.294	-2.768	-4.894		
											S66	13.2	13.23	11.70	9.63	-1.425	-1.572	-2.925	-5.172		
											66	13.21	13.12	11.71	9.52	-1.114	-1.112	-2.614	-4.712		

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)



9.4.11. 802.11be MIMO CDD MODE IN THE UNII-8 BAND – LOW POWER

LP CDD UNII-8 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5	
20MHz	0.00	0.00	-2.42	0.52	6895	189	SU	--	4.85	4.94	5.49	-6.416	-6.482	-2.919
							106+26	82	2.69	2.74	3.31	-6.371	-5.941	-2.620
							83	2.55	2.72	3.23	-6.279	-6.007	-2.611	
					6995	209	SU	--	4.92	4.98	5.54	-6.877	-6.530	-3.170
							106+26	82	2.67	2.73	3.29	-6.211	-6.322	-2.736
							83	2.87	2.74	3.40	-6.216	-6.1	-2.627	
					7095	229	SU	--	4.75	4.56	5.25	-6.481	-6.580	-3.000
							106+26	82	2.56	2.62	3.18	-6.278	-6.285	-2.751
							83	2.56	2.56	3.15	-6.326	-6.417	-2.841	
					7115	233	SU	--	-6.51	-6.60	-5.96	-18.056	-18.412	-14.700
40MHz	0.00	0.00	-1.43	1.57	6885 (Straddle)	187	SU	--	6.90	6.91	8.49	-7.387	-7.561	-2.893
							106+26	82	1.65	1.63	3.22	-7.182	-7.132	-2.577
							84	1.72	1.61	3.25	-6.738	-6.854	-2.215	
							85	1.71	1.64	3.26	-6.995	-7.187	-2.510	
							82	2.53	2.67	3.19	-6.728	-6.339	-2.999	
			6965	203	106+26	84	2.69	2.58	3.23	-6.492	-6.398	-2.914		
					85	2.61	2.58	3.19	-6.465	-6.799	-3.098			
					SU	--	7.97	7.94	8.55	-6.613	-6.403	-2.976		
					82	2.57	2.55	3.15	-6.611	-6.502	-3.026			
					84	2.69	2.68	3.28	-6.48	-6.561	-2.990			
7085	227	106+26	85	2.61	2.55	3.17	-6.97	-6.874	-3.391					
		SU	--	10.77	10.99	11.47	-6.907	-6.934	-3.390					
		65	7.85	7.97	8.50	-6.766	-7.078	-3.389						
		66	7.88	7.87	8.47	-6.791	-7.092	-3.409						
		SU	--	10.85	10.89	11.46	-6.756	-7.074	-3.382					
80MHz	0.00	0.00	-2.42	0.52	6945	199	484	65	7.79	7.85	8.41	-6.886	-7.254	-3.536
							66	7.81	7.84	8.42	-7.069	-7.168	-3.588	
							SU	--	13.20	13.12	13.75	-7.236	-7.294	-3.555
			7025	215	484	65	7.92	7.83	8.47	-6.44	-6.715	-3.045		
					66	7.81	7.84	8.42	-7.069	-7.168	-3.588			
					S66	7.82	7.85	8.43	-6.622	-6.754	-3.157			
160MHz	0.18	0.00	-2.42	0.52	6985	207	484	65	7.92	7.83	8.47	-6.44	-6.715	-3.045
							66	7.81	7.84	8.42	-7.069	-7.168	-3.588	
							S66	7.82	7.85	8.43	-6.622	-6.754	-3.157	

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

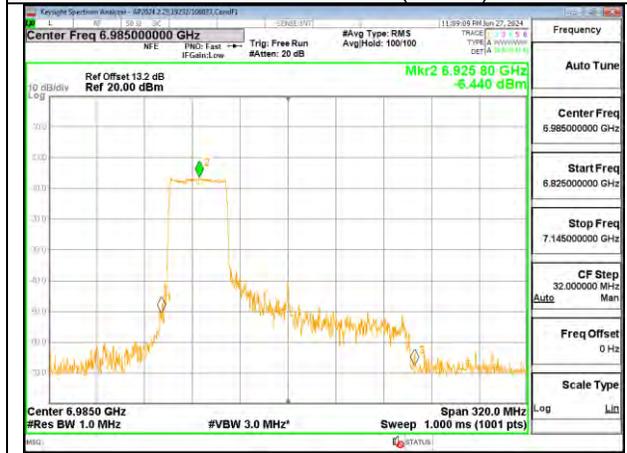
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Cycle Factor (dB) + Correlated Antenna Gain (dBi)



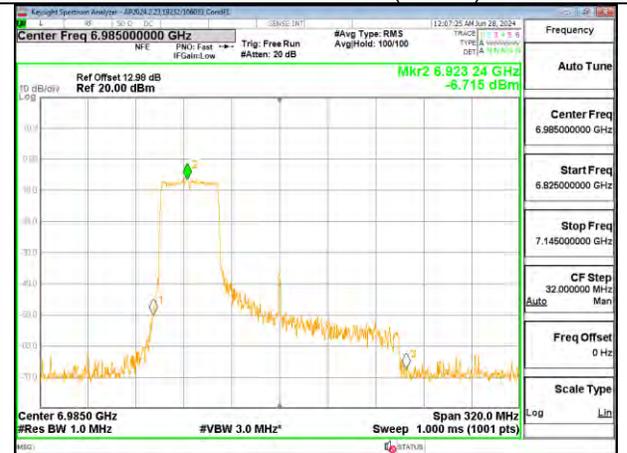
160MHz - Mid Channel – SU (UNII-8) – Ant 6



160MHz - Mid Channel – SU (UNII-8) – Ant 5



160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 6



160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 5

9.4.12. 802.11be MIMO SDM MODE IN THE UNII-8 BAND – LOW POWER

LP SDM UNII-8 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 24dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = -1 dBm/MHz EIRP)							
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5								
20MHz	0.11	0.00	-2.42	0.52	6895	189	SU	--	7.92	7.84	8.47	-3.481	-3.156	-2.615							
							106+26	82	5.67	5.48	6.17	-3.255	-3.564	-2.816							
							83	5.55	5.56	6.15	-3.585	-3.701	-3.052								
							SU	--	7.88	7.86	8.46	-3.554	-3.48	-2.817							
							106+26	82	5.63	5.66	6.24	-2.910	-3.786	-2.736							
							83	5.6	5.66	6.22	-3.465	-3.181	-2.730								
					7095	229	SU	--	7.51	7.57	8.13	-3.604	-3.557	-2.880							
							106+26	82	5.56	5.60	6.17	-3.639	-3.766	-3.112							
							83	5.49	5.66	6.17	-3.765	-3.542	-3.062								
							SU	--	-6.51	-6.60	-5.96	-18.736	-18.704	-18.020							
							40MHz	0.11	0.00	-1.43	1.57	6885 (Straddle)	187	SU	--	9.89	9.85	11.45	-4.829	-4.846	-3.147
														106+26	82	4.53	4.74	6.22	-5.011	-5.372	-3.607
84	4.62	4.61	6.20	-4.815	-5.565	-3.594															
85	4.51	4.72	6.20	-5.299	-5.697	-3.913															
SU	--	10.82	10.94	11.47	-3.745	-3.601								-2.972							
106+26	82	5.59	5.57	6.17	-3.168	-4.535								-3.208							
6965	203	84	5.71	5.73	6.31	-3.371						-4.234	-3.191								
		85	5.62	5.66	6.23	-3.666						-3.694	-3.090								
		SU	--	10.82	10.89	11.45						-3.309	-3.221	-2.564							
		106+26	82	5.59	5.59	6.18						-3.127	-4.168	-3.026							
		84	5.56	5.6	6.17	-3.258						-3.898	-2.976								
		85	5.55	5.61	6.17	-3.934						-3.962	-3.358								
7085	227	SU	--	13.55	13.60	14.17	-3.867	-4.01	-3.218												
		106+26	65	10.51	10.55	11.12	-3.939	-3.942	-3.350												
		66	10.55	10.51	11.12	-3.878	-4.204	-3.448													
		SU	--	13.52	13.55	14.13	-4.046	-3.956	-3.280												
		106+26	65	10.66	10.55	11.20	-4.16	-3.915	-3.445												
		66	10.62	10.53	11.17	-4.127	-4.223	-3.584													
80MHz	0.13	0.00	-2.42	0.52	6945	199	SU	--	13.55	13.60	14.17	-3.867	-4.01	-3.218							
							484	65	10.51	10.55	11.12	-3.939	-3.942	-3.350							
							66	10.55	10.51	11.12	-3.878	-4.204	-3.448								
							SU	--	13.52	13.55	14.13	-4.046	-3.956	-3.280							
							484	65	10.66	10.55	11.20	-4.16	-3.915	-3.445							
							66	10.62	10.53	11.17	-4.127	-4.223	-3.584								
160MHz	0.17	0.00	-2.42	0.52	6985	207	SU	--	16.14	16.24	16.78	-3.929	-3.981	-3.195							
							484	65	10.98	10.87	11.52	-3.695	-3.65	-3.082							
							S66	10.95	10.89	11.51	-3.686	-3.811	-3.158								

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

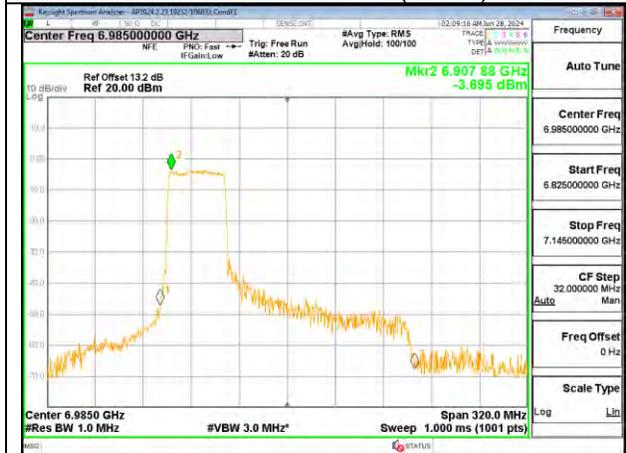
EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Un-Correlated Antenna Gain (dBi)



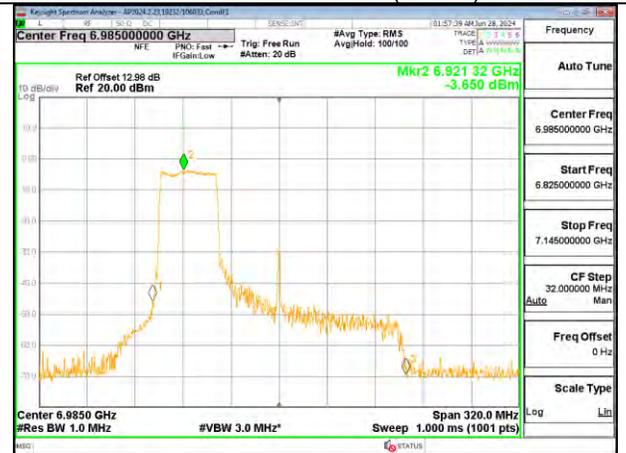
160MHz - Mid Channel – SU (UNII-8) – Ant 6



160MHz - Mid Channel – SU (UNII-8) – Ant 5



160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 6



160MHz - Mid Channel – 484T RU65 (UNII-8) – Ant 5

9.5. SP OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.925-7.125 GHz

(7)For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925–6.425 GHz and 6.525–6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

TEST PROCEDURE

Conducted Output Power: KDB 789033 D02 v02r01, Section II E.3.b (Method PM-G), because the gated power measurement is used the calculation of EIRP power does not include any corrections for duty factor.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

RESULTS

The data in these sections follow the same testing parameters used for LP and SP modes PSD tests, therefore, for test setting please refer to LP mode PSD test plots.

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:

CDD MIMO Tx chains used uncorrelated gain for EIRP calculation and correlated gain for PSD EIRP calculation; SDM MIMO Tx chains used uncorrelated for both EIRP and PSD EIRP calculation. For the straddle channels, the higher antenna gains were chosen between two bands where straddle channels are located. The directional gains are as follows:

Frequency Range (MHz)	Sub-band (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)	Uncorrelated Chains (dBi)	Correlated Chains (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	0.3	-2.60	-0.91	1.98
	Sub-band 2 (6115 - 6255)	-0.50	-2.20	-1.27	1.70
	Sub-band 3 (6275 - 6415)	0.30	-2.40	-0.84	2.06
6425 - 6525 UNII-6	N/A	-0.50	-2.50	-1.39	1.57
UNII-6/7 (Straddle Channel)	N/A	-0.50	-1.90	-1.14	1.84
6525 - 6875 UNII-7	N/A	-1.00	-1.90	-1.43	1.57
UNII-7/8 (Straddle Channel)	N/A	-1.00	-1.90	-1.43	1.57
6875 - 7125 UNII-8	N/A	-1.50	-3.60	-2.42	0.52

DIRECTIONAL GAIN CALCULATION:

ANSI C63.10-2013 section 14.4.3

$$\text{Uncorrelated directional gain} = 10 \cdot \text{LOG}((10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})/2)$$

$$\text{Correlated directional Gain} = 10 \cdot \text{LOG}(((10^{(\text{Ant6}/20)} + 10^{(\text{Ant5}/20)})^2)/2)$$

Sample Calculation at UNII-5 Band:

$$\text{Ant6} = 0.3, \text{Ant5} = -2.60$$

$$\text{Uncorrelated Antenna gain} = 10 \log_{10}[(10^{(0.3/10)} + 10^{(-2.60/10)})/2] = -0.91 \text{dBi}$$

$$\text{Correlated Antenna gain} = 10 \log_{10}[(10^{(0.3/20)} + 10^{(-2.60/20)})^2/2] = 1.98 \text{dBi}$$

EIRP Calculation:**1Tx**

EIRP corr'd power = Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU 52) Power = 12.64dBm

EIRP corr'd power = 12.64 + (0.30) = 12.94 dBm

2Tx

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(\text{Ant6}/10)} + 10^{(\text{Ant5}/10)})$ + correlated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU 52) Power= 12.62dBm, Ant5 Power= 12.51

EIRP corr'd power = $10 \cdot \text{LOG}(10^{(12.62/10)} + 10^{(12.51/10)})$ + (-0.91) = 14.67 dBm

EIRP PSD Calculation:**1Tx**

EIRP corr'd PSD = DCCF + Ant6 + Antenna Gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU 52) PSD= 7.367 dBm/1MHz

EIRP corr'd PSD = 0 + 7.367 + (0.3) = 7.667dBm/1MHz

2Tx (CDD)

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((\text{DCCF} + \text{Ant6})/10)} + 10^{((\text{DCCF} + \text{Ant5})/10)}))$ + correlated directional gain

Sample Calculation at UNII-5 Band:

Ant6(low channel RU 52) PSD=7.502 dBm/1MHz, Ant5 PSD=7.501 dBm/1MHz

EIRP corr'd PSD = $(10 \cdot \text{LOG}(10^{((0+(7.502))/10)} + 10^{((0+(7.501))/10)}))$ + (1.98) = 12.492 dBm/1MHz

9.5.1. 802.11be SISO MODE IN THE UNII-5 BAND – STANDARD POWER

SP UNII-5 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)	
	SU	Partial RU							Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5
20MHz	0.00	0.00	0.30	-2.60	5955	1	SU	--	19.45	19.45	19.75	16.85	8.418	8.467	8.718	5.867
							37	12.64	12.65	12.94	10.05	7.367	7.48	7.667	4.880	
							52	38	12.59	12.66	12.89	10.06	7.254	7.536	7.554	4.936
			40	12.57	12.62	12.87	10.02	7.351	7.105	7.651	4.505					
			SU	--	19.45	19.23	18.95	17.03	8.402	8.388	7.902	6.188				
			52	37	12.63	12.53	12.13	10.33	6.941	6.889	6.441	4.689				
	0.30	-2.40	6415	93	52	38	12.62	12.55	12.12	10.35	7.205	7.353	6.705	5.153		
					40	12.57	12.54	12.07	10.34	7.195	7.088	6.695	4.888			
					SU	--	19.45	19.33	19.75	16.93	8.310	8.353	8.610	5.953		
					52	37	12.66	12.57	12.96	10.17	7.199	7.397	7.499	4.997		
					38	12.52	12.63	12.82	10.23	7.222	7.345	7.522	4.945			
					40	12.73	12.61	13.03	10.21	7.231	7.07	7.531	4.670			
40MHz	0.00	0.00	0.30	-2.60	5965	3	SU	--	19.40	19.40	19.70	16.80	5.408	5.365	5.708	2.765
							242	61	19.40	19.30	19.70	16.70	8.488	8.434	8.788	5.834
							62	19.37	19.48	19.67	16.88	8.159	8.179	8.459	5.579	
			SU	--	19.38	19.27	18.88	17.07	5.740	5.401	5.240	3.201				
			242	61	19.42	19.48	18.92	17.28	8.126	8.182	7.626	5.982				
			62	19.39	19.41	18.89	17.21	8.284	8.171	7.784	5.971					
	0.30	-2.40	6405	91	SU	--	19.32	19.49	19.62	17.09	5.452	5.548	5.752	3.148		
					242	61	19.35	19.32	19.65	16.92	8.422	8.219	8.722	5.819		
					62	19.31	19.38	19.61	16.98	8.460	8.381	8.760	5.981			
					SU	--	19.39	19.42	19.69	16.82	2.187	2.475	2.487	-0.125		
					242	61	19.46	19.41	19.76	16.81	8.287	8.392	8.587	5.792		
					62	19.30	19.49	19.60	16.89	8.188	8.292	8.488	5.692			
80MHz	0.00	0.00	0.30	-2.60	5985	7	SU	--	19.39	19.42	19.69	16.82	2.187	2.475	2.487	-0.125
							242	61	19.46	19.41	19.76	16.81	8.287	8.392	8.587	5.792
							62	19.30	19.49	19.60	16.89	8.188	8.292	8.488	5.692	
			SU	--	19.31	19.28	18.81	17.08	2.374	2.118	1.874	-0.082				
			242	61	19.43	19.31	18.93	17.11	8.208	7.865	7.708	5.665				
			62	19.32	19.34	18.82	17.14	8.078	7.852	7.578	5.652					
	0.30	-2.40	6385	87	SU	--	19.33	19.39	19.63	16.99	2.400	2.503	2.700	0.103		
					242	61	19.40	19.40	19.70	17.00	8.484	8.159	8.784	5.759		
					62	19.40	19.31	19.70	16.91	8.364	8.159	8.664	5.759			
					SU	--	19.33	19.39	19.63	16.99	2.400	2.503	2.700	0.103		
					242	61	19.40	19.40	19.70	17.00	8.484	8.159	8.784	5.759		
					62	19.40	19.31	19.70	16.91	8.364	8.159	8.664	5.759			
160MHz	0.18	0.00	0.30	-2.60	6025	15	SU	--	19.42	19.42	19.72	16.82	-0.559	-0.465	-0.079	-2.885
							242	61	19.43	19.32	19.73	16.72	8.409	8.233	8.709	5.633
							S64	19.31	19.33	19.61	16.73	8.240	8.062	8.540	5.462	
			SU	--	19.36	19.38	19.78	16.78	8.332	8.416	8.632	5.816				
			242	61	19.48	19.38	19.78	16.78	8.332	8.416	8.632	5.816				
			S64	19.48	19.38	19.78	16.78	8.332	8.416	8.632	5.816					
	0.30	-2.20	6185	47	SU	--	19.36	19.47	18.86	17.27	-0.649	-0.336	-0.969	-2.356		
					242	61	19.48	19.49	18.98	17.29	8.563	8.483	8.063	6.283		
					64	19.44	19.35	18.94	17.15	8.325	8.232	7.825	6.032			
					SU	--	19.45	19.40	18.95	17.20	5.560	8.090	5.060	5.890		
					242	61	19.45	19.40	18.95	17.20	5.560	8.090	5.060	5.890		
					S64	19.45	19.40	18.95	17.20	5.560	8.090	5.060	5.890			
0.30	-2.40	6345	79	SU	--	19.36	19.47	19.66	17.07	-0.614	-0.640	-0.134	-2.860			
				242	61	19.34	19.35	19.64	16.95	8.399	8.355	8.699	5.955			
				64	19.34	19.42	19.64	17.02	8.299	8.142	8.599	5.742				
				SU	--	19.36	19.47	19.66	17.07	-0.614	-0.640	-0.134	-2.860			
				242	61	19.34	19.35	19.64	16.95	8.399	8.355	8.699	5.955			
				S64	19.34	19.42	19.64	17.02	8.299	8.142	8.599	5.742				

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)

9.5.2. 802.11be MIMO CDD MODE IN THE UNII-5 BAND – STANDARD POWER

SP CDD UNII-5 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 30dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = 17 dBm/MHz EIRP)		
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5			
20MHz	0.00	0.00	-0.91	1.98	5955	1	SU	--	19.40	19.36	21.48	8.372	8.246	13.300		
							52	37	12.62	12.51	14.67	7.502	7.501	12.492		
								38	12.52	12.61	14.67	7.481	7.969	12.722		
			52	40	12.53	12.63	14.68	7.365	7.401	12.373						
				SU	--	19.40	19.24	21.06	8.412	8.630	13.233					
				52	37	12.56	12.59	14.32	7.21	7.129	11.880					
	38	12.62	12.67		14.39	6.96	7.279	11.833								
	0.00	0.00	-1.27	1.7	6175	45	52	40	12.56	12.59	14.32	7.124	7.257	11.901		
								SU	--	19.45	19.49	21.64	8.402	8.336	13.439	
								52	37	12.58	12.56	14.74	7.224	7.253	12.309	
			38	12.6	12.67	14.81	7.198		7.344	12.342						
			93	52	-0.84	2.06	6415	93	40	12.72	12.64	14.85	7.556	7.317	12.508	
SU									--	19.35	19.36	21.46	5.773	5.437	10.599	
242	61	19.38							19.35	21.47	8.175	8.290	13.223			
40MHz	0.00	0.00	-0.91	1.98	5965	3	242	62	19.45	19.28	21.47	8.274	8.250	13.252		
								SU	--	19.40	19.31	21.10	5.423	5.002	9.928	
								242	61	19.41	19.28	21.09	8.483	7.710	12.824	
			62	19.44	19.25	21.09	8.232		7.774	12.719						
			0.00	0.00	-1.27	1.7	6165	43	242	61	19.41	19.28	21.09	8.483	7.710	12.824
										62	19.44	19.25	21.09	8.232	7.774	12.719
	SU	--								19.33	19.21	21.44	5.711	5.394	10.626	
	91	242			-0.84	2.06	6405	91	61	19.30	19.33	21.49	8.305	8.524	13.486	
									62	19.41	19.30	21.53	8.311	8.098	13.276	
									SU	--	19.21	19.44	21.43	2.030	2.499	7.261
	80MHz	0.00	0.00	-0.91	1.98	5985	7	242	61	19.28	19.23	21.36	8.212	8.049	13.122	
									62	19.34	19.43	21.49	7.768	8.097	12.926	
64									19.29	19.27	21.38	8.114	8.030	13.063		
39				242	-1.27	1.7	6145	39	SU	--	19.40	19.45	21.17	2.346	2.268	7.017
									61	19.30	19.41	21.10	8.180	8.005	12.804	
									62	19.35	19.30	21.07	8.252	7.960	12.819	
87		242	-0.84	2.06	6385	87	64	19.40	19.42	21.15	8.354	8.237	13.006			
							SU	--	19.38	19.44	21.58	2.354	2.347	7.421		
							61	19.41	19.42	21.59	7.843	8.198	13.094			
160MHz		0.18	0.00	-0.91	1.98	6025	15	242	62	19.38	19.48	21.60	8.516	8.147	13.406	
									64	19.43	19.40	21.59	8.312	8.607	13.532	
									S64	19.31	19.38	21.45	8.354	8.151	13.244	
	47			242	-1.27	1.7	6185	47	SU	--	19.33	19.40	21.11	-0.817	-0.548	4.210
									61	19.30	19.37	21.08	8.504	8.401	13.163	
									64	19.47	19.47	21.21	8.491	8.374	13.143	
	79	242	-0.84	2.06	6345	79	S64	19.42	19.47	21.19	8.196	8.184	12.900			
							SU	--	19.30	19.49	21.57	-0.551	-0.549	4.700		
							61	19.49	19.43	21.63	8.472	8.145	13.382			
	79	242	-0.84	2.06	6345	79	64	19.40	19.43	21.59	8.276	8.243	13.330			
							S64	19.31	19.48	21.57	8.454	8.322	13.459			
							SU	--	19.30	19.49	21.57	-0.551	-0.549	4.700		

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.5.3. 802.11be SISO MODE IN THE UNII-7 BAND – STANDARD POWER

SP UNII-7 (SISO)	Duty Factor (dB)		Ant 6 Gain (dBi)	Ant 5 Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated) (dBm)		EIRP Power (Limit = 30dBm EIRP)		Conducted PSD (dBm/MHz)		EIRP PSD (Limit = 17 dBm/MHz EIRP)									
	SU	Partial RU							Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5	Ant 6	Ant 5								
																	Ant 6	Ant 5						
20MHz	0.00	0.00	-1.00	-1.90	6535	117	SU	--	18.91	18.91	17.91	17.01	7.865	7.493	6.865	5.593								
								37	12.19	12.12	11.19	10.22	7.032	6.948	6.032	5.048								
								38	12.1	12.06	11.10	10.16	6.998	6.979	5.998	5.079								
							52	40	12.06	12.09	11.06	10.19	7.08	7.269	6.080	5.369								
								SU	--	18.86	18.81	17.86	16.91	7.672	7.468	6.672	5.568							
									37	12.11	12.15	11.11	10.25	6.509	6.721	5.509	4.821							
					52	38	12.07		12.12	11.07	10.22	6.712	6.664	5.712	4.764									
						40	12.09	12.13	11.09	10.23	6.769	6.592	5.769	4.692										
						6855	181	SU	--	18.81	18.83	17.81	16.93	7.646	7.682	6.646	5.782							
					37				12.15	12.08	11.15	10.18	6.308	6.646	5.308	4.746								
					38				12.12	12.15	11.12	10.25	6.69	6.751	5.690	4.851								
					52			40	12.13	12.14	11.13	10.24	6.795	6.647	5.795	4.747								
40MHz	0.00	0.00	-1.00	-1.90				6565	123	SU	--	18.94	18.99	17.94	17.09	4.110	4.291	3.110	2.391					
											61	18.92	18.98	17.92	17.08	6.893	7.353	5.893	5.453					
					62	18.92	18.99				17.92	17.09	7.181	7.460	6.181	5.560								
					242	--	18.84			18.97	17.84	17.07	4.512	4.557	3.512	2.657								
						6685	147			242	61	18.92	18.92	17.92	17.02	7.255	7.338	6.255	5.438					
											62	18.84	18.93	17.84	17.03	7.366	7.370	6.366	5.470					
64	18.97	18.96	17.97	17.06	4.519			4.498	3.519		2.598													
6845	179	242	61	18.91	18.93	17.91	17.03	7.261	7.446	6.261	5.546													
			62	18.95	18.97	17.95	17.07	7.429	7.384	6.429	5.484													
			80MHz (FCC)	0.00	0.00	-1.00	-1.90	6625	135	SU	--	18.81	18.84	17.81	16.94	1.482	1.364	0.482	-0.536					
61	18.85	18.75									17.85	16.85	7.440	7.260	6.440	5.360								
62	18.90	18.76									17.90	16.86	7.389	7.118	6.389	5.218								
242	64	18.92								18.94	17.92	17.04	7.471	7.485	6.471	5.585								
	80MHz	0.00								0.00	-1.00	-1.90	6705	151	SU	--	18.87	18.99	17.87	17.09	1.557	1.597	0.557	-0.303
																61	18.96	18.94	17.96	17.04	7.415	7.583	6.415	5.683
62			18.92	18.92	17.92	17.02	7.440	7.367	6.440							5.467								
242			64	18.97	18.87	17.97	16.97	7.375	7.494						6.375	5.594								
			6785	167	SU	--	18.93	18.92	17.93						17.02	1.668	1.678	0.668	-0.222					
						61	18.91	18.85	17.91						16.95	7.393	7.573	6.393	5.673					
62	18.94	18.79				17.94	16.89	7.478	7.366	6.478	5.466													
242	64	18.97			18.88	17.97	16.98	7.488	7.654	6.488	5.754													
	160MHz	0.18			0.00	-1.00	-1.90	6665	143	SU	--	18.87	18.92	17.87	17.02	-1.162	-1.123	-1.982	-2.843					
											61	18.94	18.88	17.94	16.98	7.974	7.661	6.974	5.761					
64			18.80	18.72							17.80	16.82	7.304	7.062	6.304	5.162								
242			64	18.81						18.83	17.81	16.93	7.655	7.500	6.655	5.600								

Note:

EIRP Output Power (dBm) = Measured Conducted Power (dBm)+ Peak Antenna Gain (dBi)

EIRP PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) + Duty Factor (dB) + Peak Antenna Gain (dBi)

9.5.4. 802.11be MIMO CDD MODE IN THE UNII-7 BAND – STANDARD POWER

SP CDD UNII-7 (MIMO)	Duty Factor (dB)		Un-Correlated Antenna Gain (dBi)	Correlated Antenna Gain (dBi)	Frequency (MHz)	Channel Number	Tone	RU Index	Conducted Power (Gated)		EIRP MIMO Power (Limit = 30dBm EIRP)	Conducted PSD (dBm/MHz)		EIRP MIMO PSD (Limit = 17 dBm/MHz EIRP)	
	SU	Partial Rus							Ant 6	Ant 5		Ant 6	Ant 5		
20MHz	0.00	0.00	-1.43	1.57	6535	117	SU	--	18.95	18.92	20.52	7.488	7.411	12.030	
								37	12.14	12.14	13.72	7.193	6.976	11.666	
								38	12.09	12.07	13.66	6.648	6.635	11.222	
								40	12.09	12.1	13.68	6.944	6.948	11.526	
					6715	149	SU	--	18.93	18.80	20.45	7.591	7.644	12.198	
								37	12.06	12.16	13.69	6.832	6.86	11.426	
								38	12.12	12.14	13.71	6.82	6.652	11.317	
								40	12.14	12.12	13.71	6.765	6.884	11.405	
					6855	181	SU	--	18.78	18.90	20.42	7.541	7.653	12.178	
								37	12.14	12.14	13.72	6.903	7.063	11.564	
								38	12.19	12.16	13.76	6.782	6.954	11.449	
								40	12.17	12.17	13.75	6.722	6.976	11.431	
40MHz	0.00	0.00	-1.43	1.57	6565	123	SU	--	18.91	18.88	20.48	4.788	4.552	9.252	
								61	18.89	18.92	20.49	7.185	7.245	11.795	
								62	18.87	18.82	20.43	7.284	7.515	11.981	
								SU	--	18.84	18.97	20.49	4.328	4.552	9.022
					6685	147	SU	61	18.92	18.74	20.41	7.399	7.375	11.967	
								62	18.90	18.99	20.53	7.487	7.572	12.110	
								SU	--	18.82	18.77	20.38	4.732	4.553	9.224
								61	18.94	18.96	20.53	7.376	7.524	12.031	
					6845	179	SU	62	18.87	18.99	20.51	7.620	7.713	12.247	
								SU	--	18.95	18.88	20.50	1.396	1.691	6.126
								61	18.85	18.82	20.42	7.301	7.443	11.953	
								62	18.83	18.80	20.40	7.405	7.438	12.002	
80MHz (FCC)	0.00	0.00	-1.43	1.57	6625	135	SU	64	18.97	18.82	20.48	7.482	7.565	12.104	
								SU	--	18.92	18.81	20.45	1.429	1.720	6.157
								61	18.97	18.87	20.50	7.387	7.776	12.166	
								62	18.86	18.81	20.42	7.420	7.441	12.011	
					6705	151	SU	64	18.88	18.80	20.42	7.510	7.296	11.985	
								SU	--	18.84	18.85	20.43	1.653	1.409	6.113
								61	18.87	18.81	20.42	7.272	7.185	11.809	
								62	18.75	18.85	20.38	7.351	7.540	12.027	
					6785	167	SU	64	18.97	18.80	20.47	7.568	7.656	12.193	
								SU	--	18.94	18.80	20.45	-0.962	-0.772	3.894
								61	18.96	18.81	20.47	7.524	7.838	12.264	
								64	18.99	18.82	20.49	7.539	7.989	12.350	
160MHz	0.18	0.00	-1.43	1.57	6665	143	SU	S64	18.93	18.83	20.46	7.806	7.461	12.217	
								61	18.96	18.81	20.47	7.524	7.838	12.264	
								64	18.99	18.82	20.49	7.539	7.989	12.350	
								S64	18.93	18.83	20.46	7.806	7.461	12.217	

Note:

EIRP MIMO Output Power (dBm) = Measured Conducted Power (dBm) (Ant 6 + Ant 5) + Un-Correlated Antenna Gain (dBi)

EIRP MIMO PSD (dBm/MHz) = Measured Conducted PSD (dBm/MHz) (Ant 6 + Ant 5) + Duty Factor (dB) + Correlated Antenna Gain (dBi)

9.6. LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Follow KCB 987594 D02 v01r01, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only partial RU tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

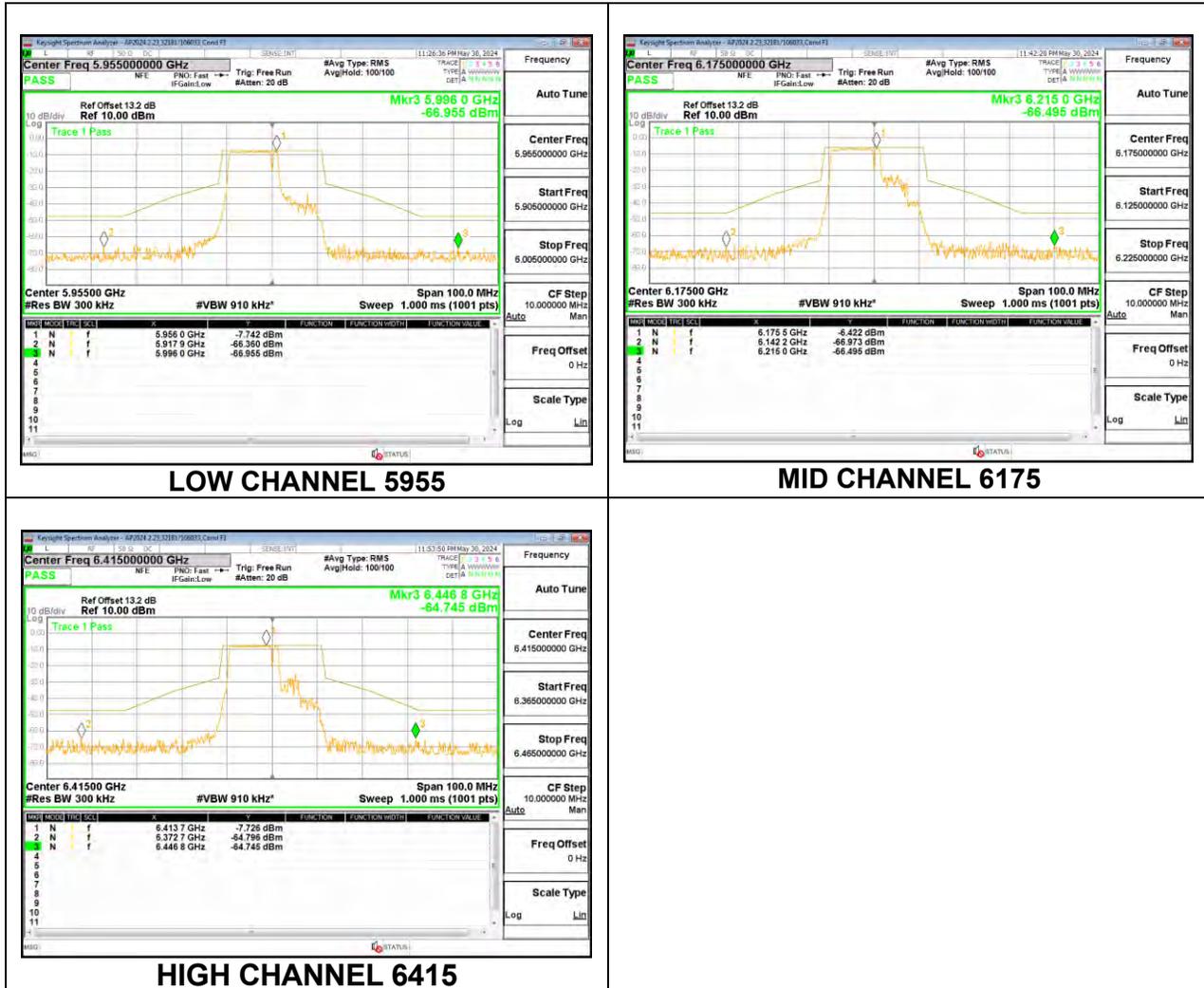
Band	Tones	20MHz	40MHz	80MHz	160MHz
UNII-5	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-6	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-7	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz
UNII-8	Partial RU	300kHz/910kHz	510kHz/1.6MHz	510kHz/1.6MHz	680kHz/2.2MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

RESULTS

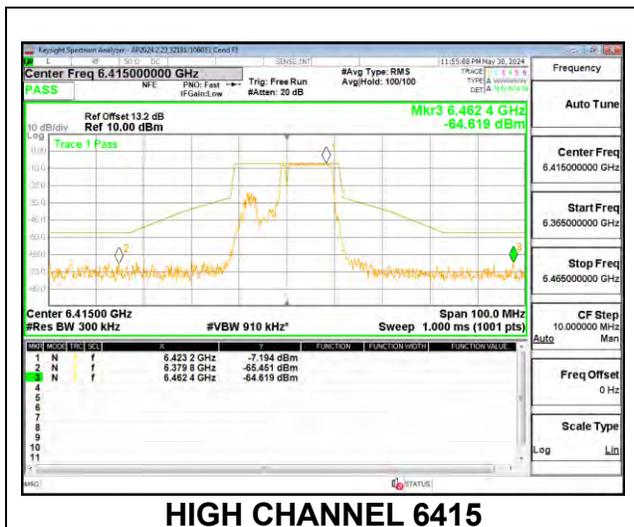
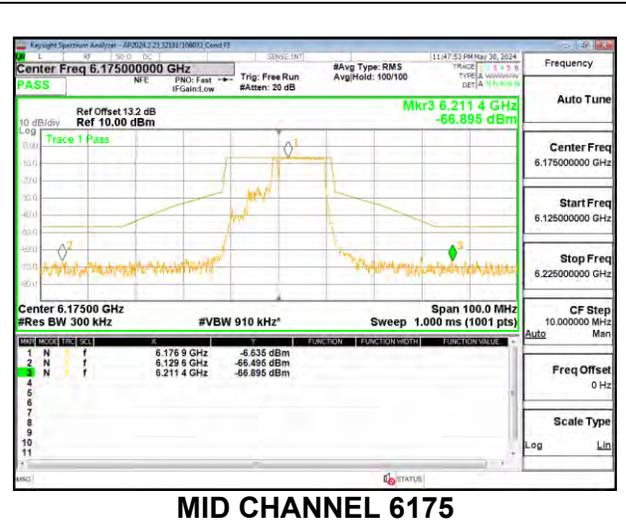
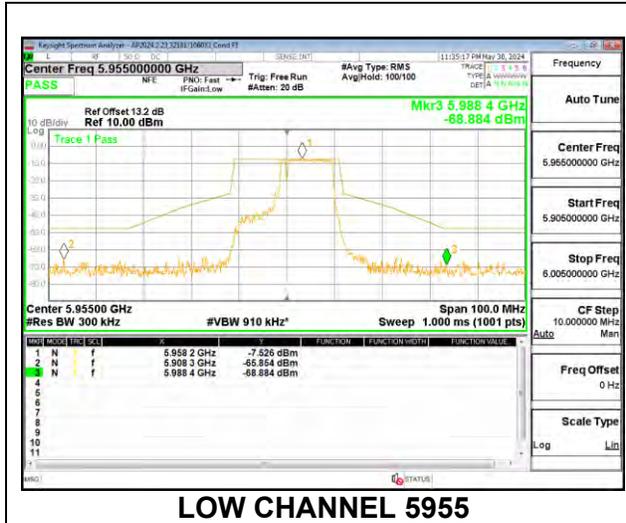
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

9.6.1. 802.11be EHT20 MODE IN THE UNII-5 BAND

1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82



1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 83



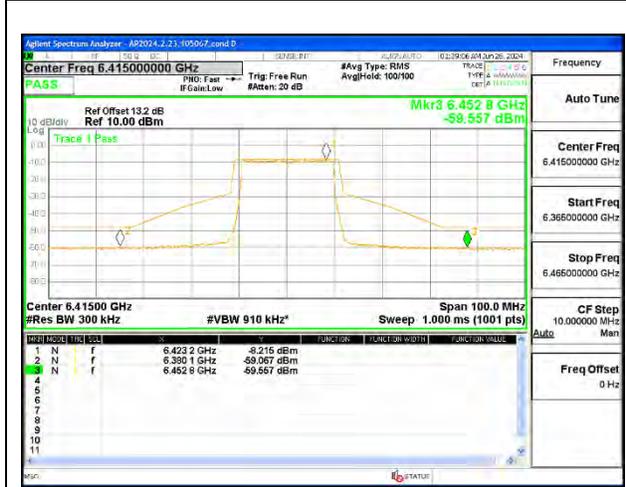
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5955



MID CHANNEL 6175



HIGH CHANNEL 6415

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82



LOW CHANNEL 5955



MID CHANNEL 6175



HIGH CHANNEL 6415

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 83



LOW CHANNEL 5955



MID CHANNEL 6175

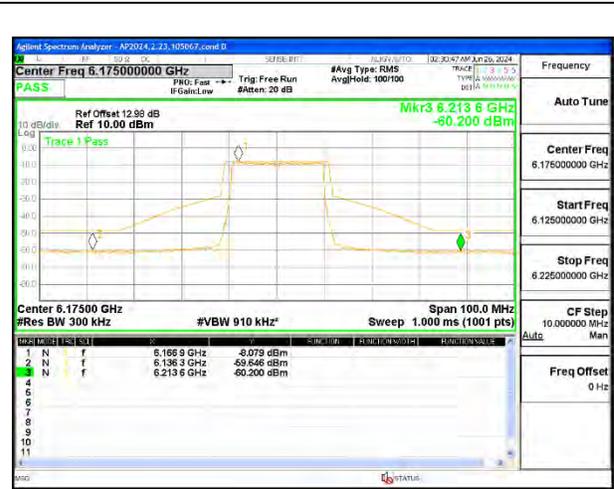


HIGH CHANNEL 6415

1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5955

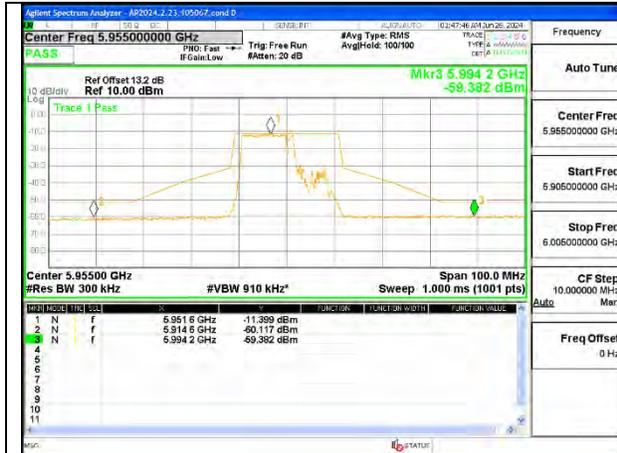


MID CHANNEL 6175

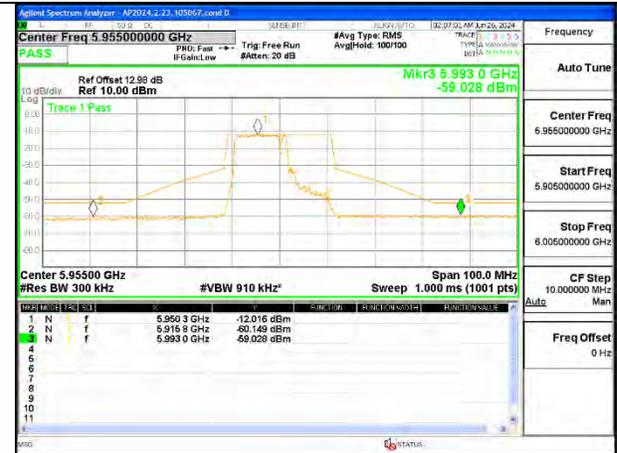


HIGH CHANNEL 6415

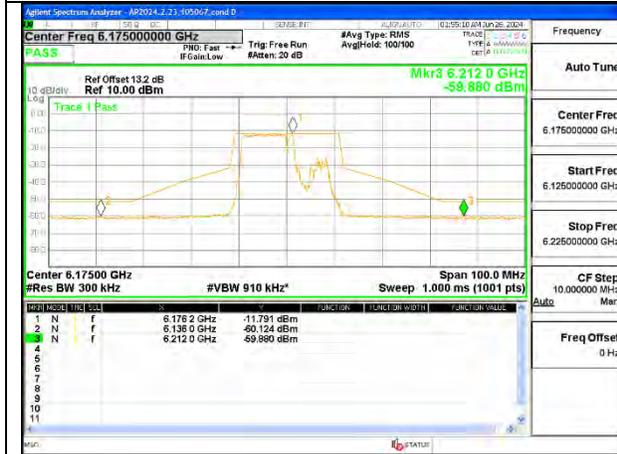
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 82



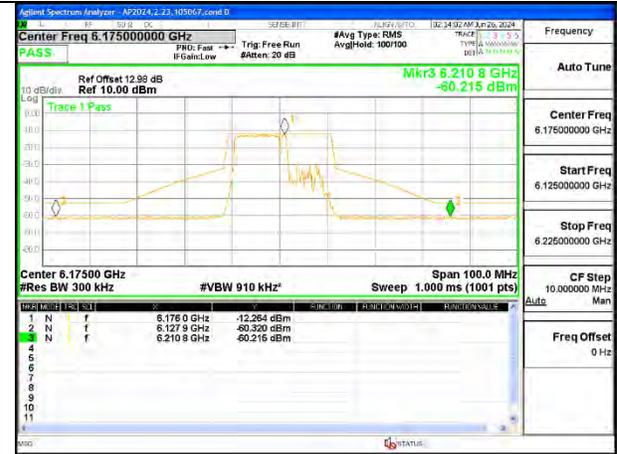
LOW CHANNEL ANT 6 5955



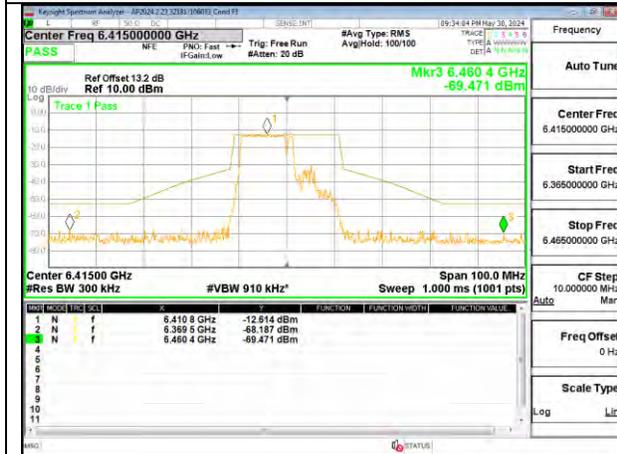
LOW CHANNEL ANT 5 5955



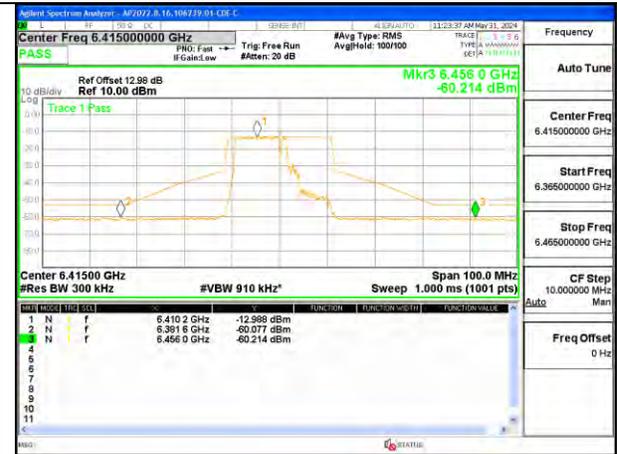
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

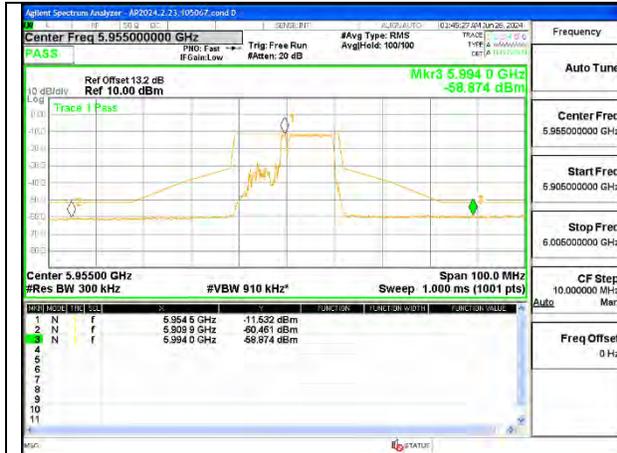


HIGH CHANNEL ANT 6 6415

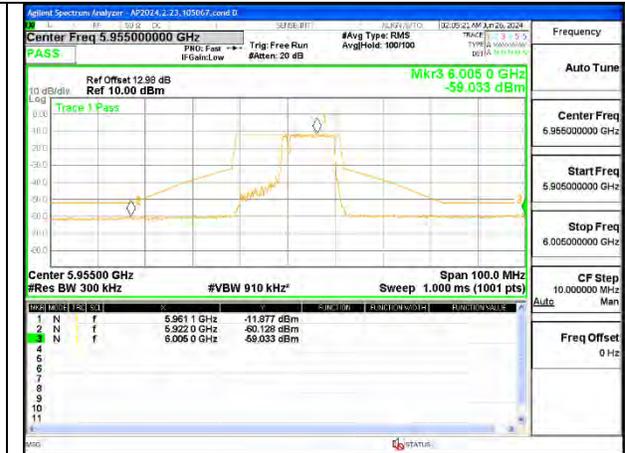


HIGH CHANNEL ANT 5 6415

2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 83



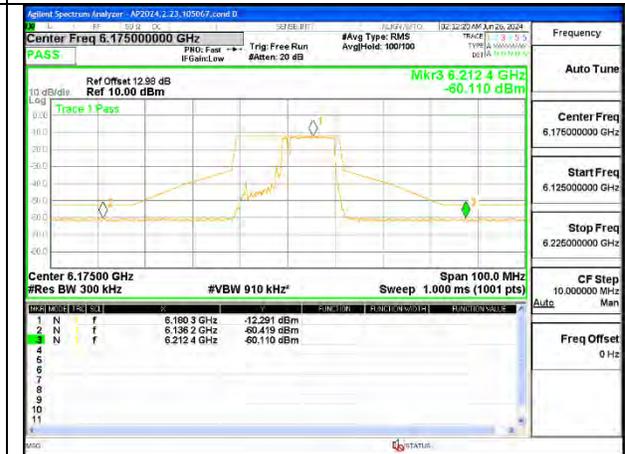
LOW CHANNEL ANT 6 5955



LOW CHANNEL ANT 5 5955



MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

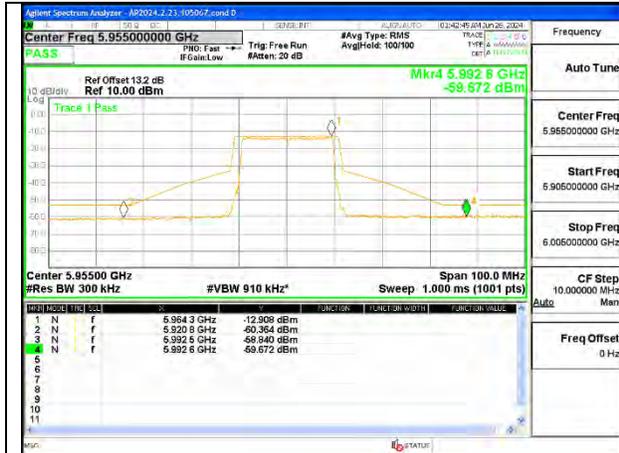


HIGH CHANNEL ANT 6 6415

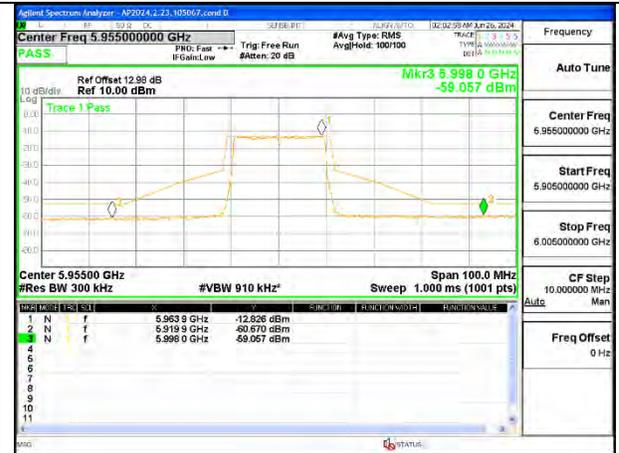


HIGH CHANNEL ANT 5 6415

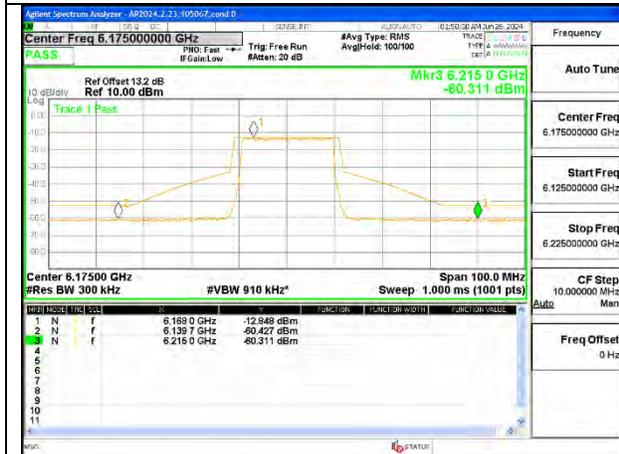
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – SU MODE



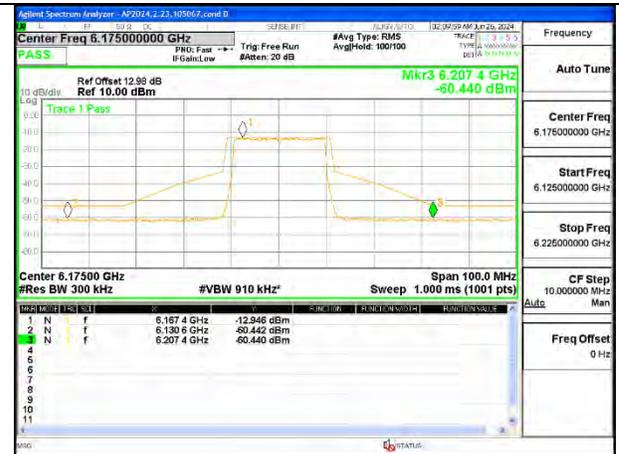
LOW CHANNEL ANT 6 5955



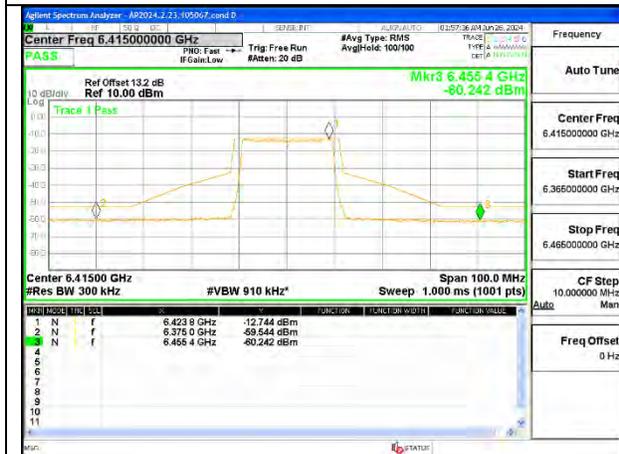
LOW CHANNEL ANT 5 5955



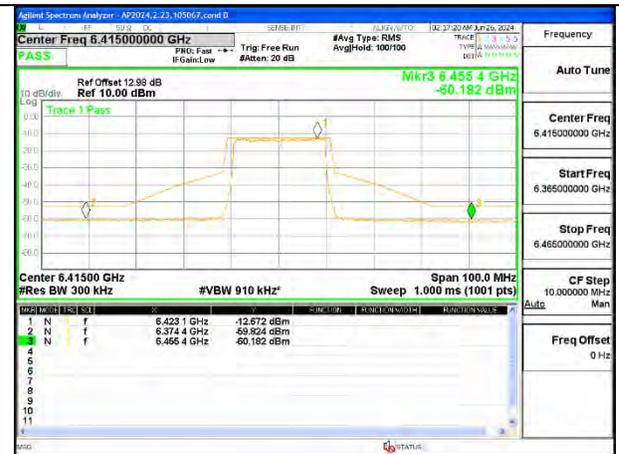
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

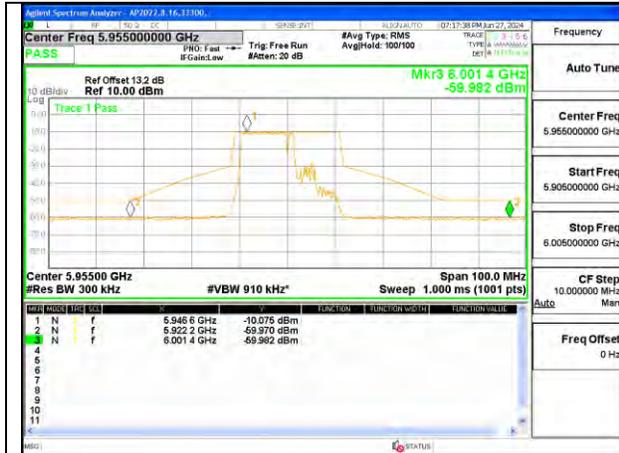


HIGH CHANNEL ANT 6 6415

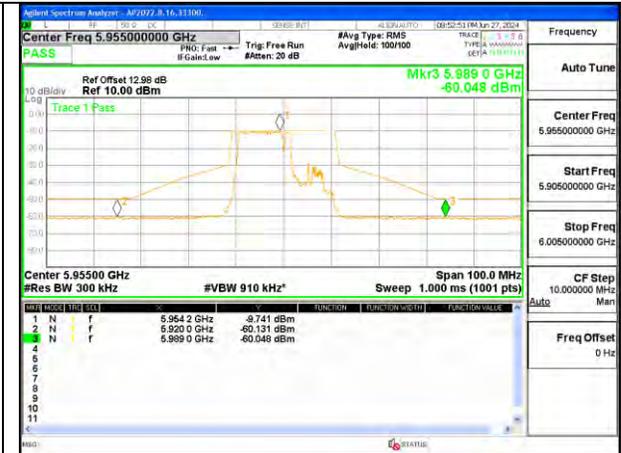


HIGH CHANNEL ANT 5 6415

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26-Tones, RU Index 82



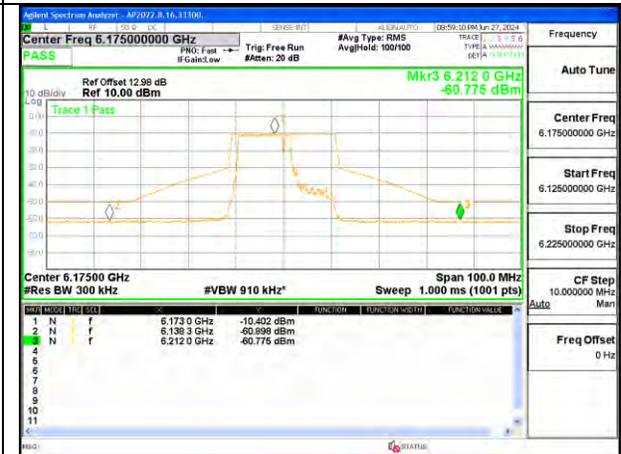
LOW CHANNEL ANT 6 5955



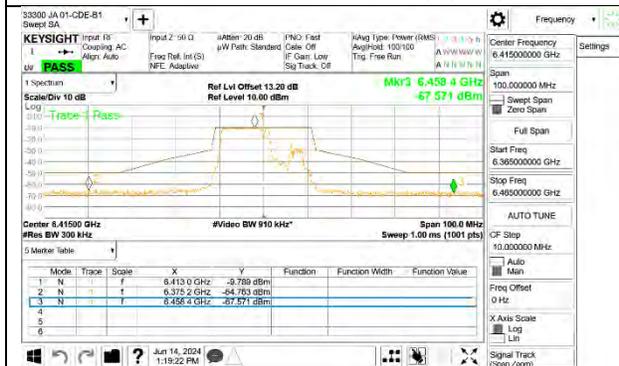
LOW CHANNEL ANT 5 5955



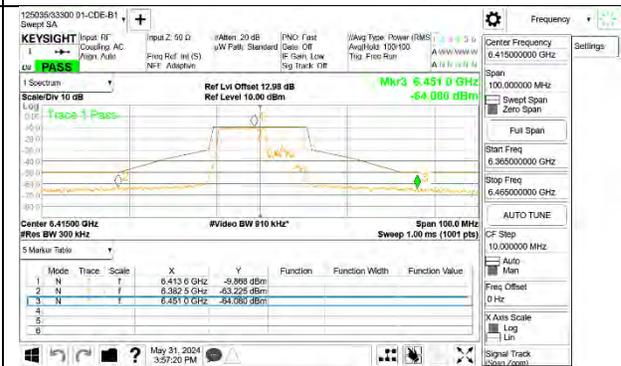
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

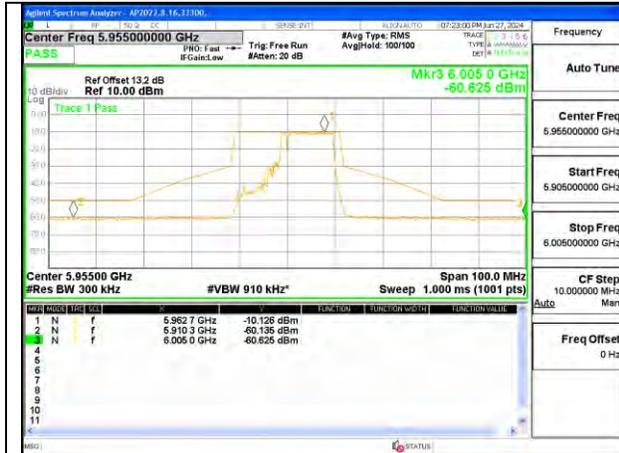


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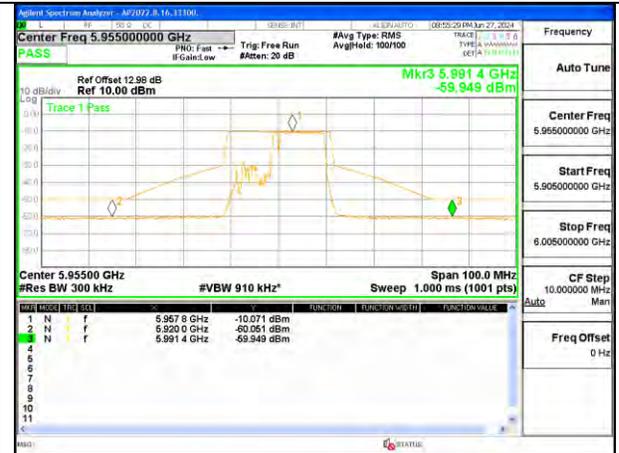


HIGH CHANNEL ANT 5 6415

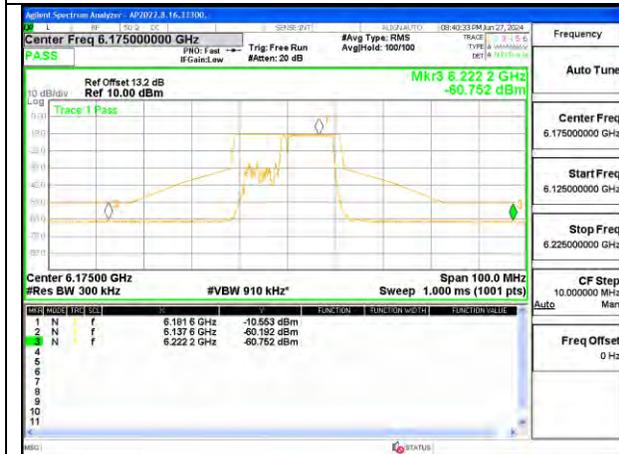
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26-Tones, RU Index 83



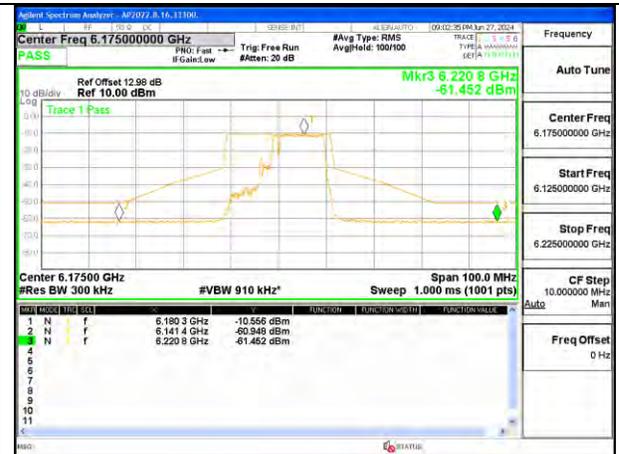
LOW CHANNEL ANT 6 5955



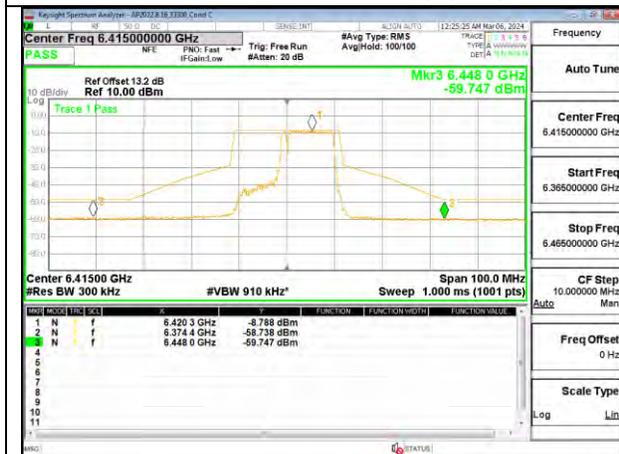
LOW CHANNEL ANT 5 5955



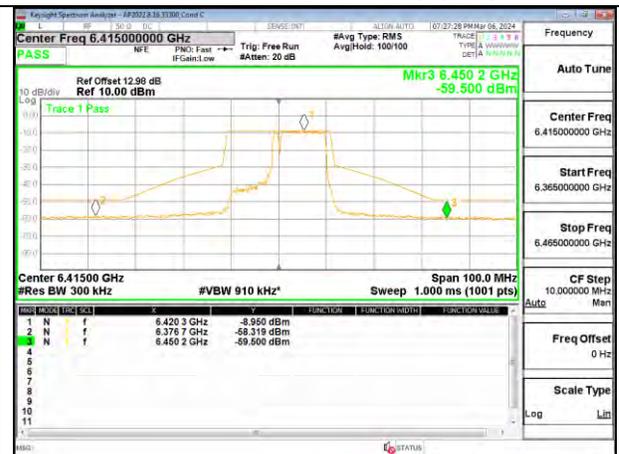
MID CHANNEL ANT 6 6175



MID CHANNEL ANT 5 6175

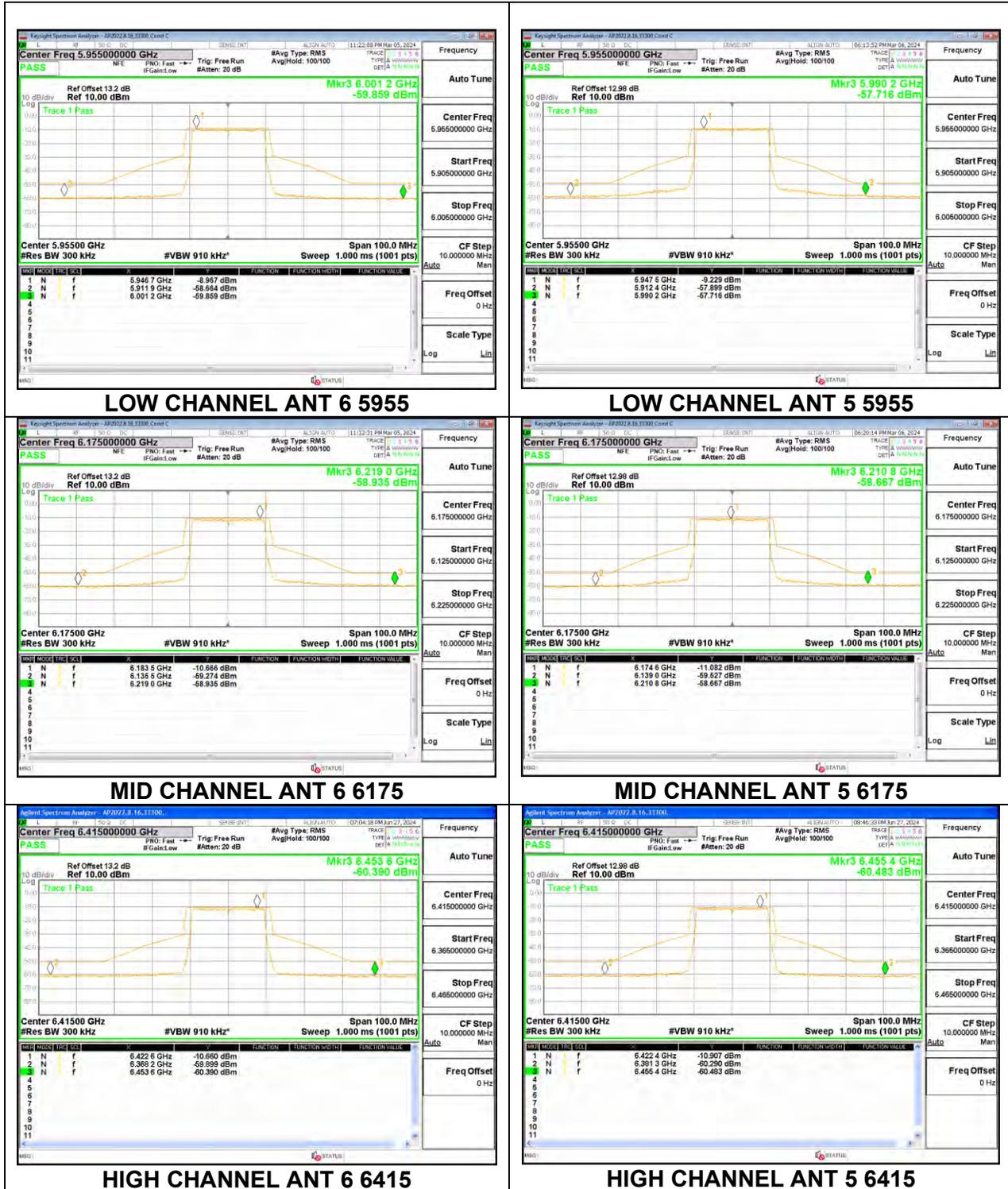


HIGH CHANNEL ANT 6 6415



HIGH CHANNEL ANT 5 6415

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode

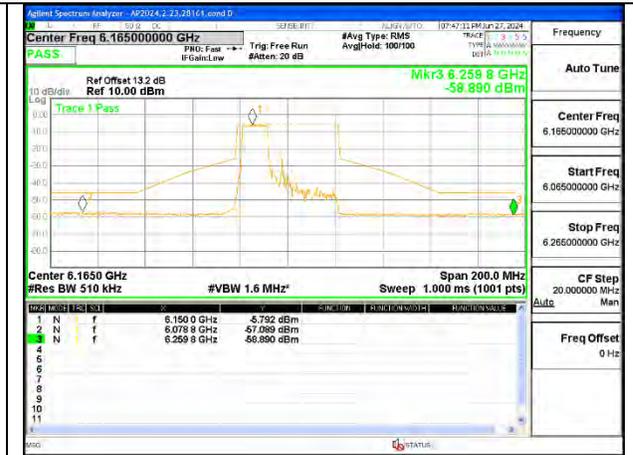


9.6.2. 802.11be EHT40 MODE IN THE UNII-5 BAND

1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82



LOW CHANNEL 5965

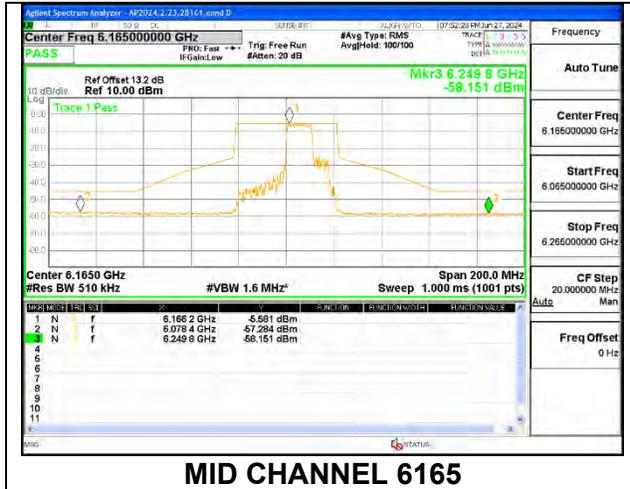


MID CHANNEL 6165

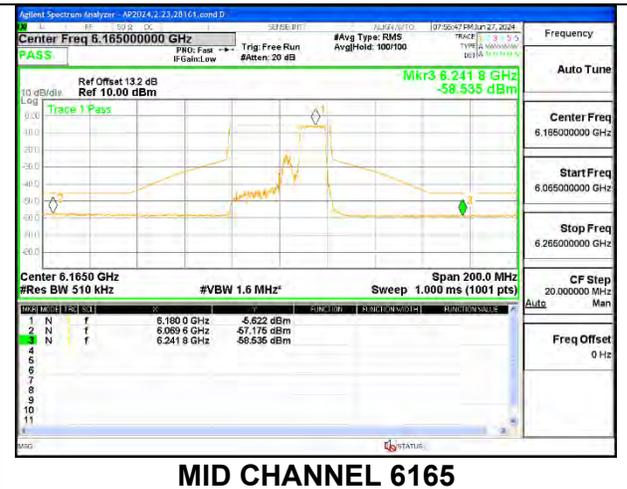


HIGH CHANNEL 6405

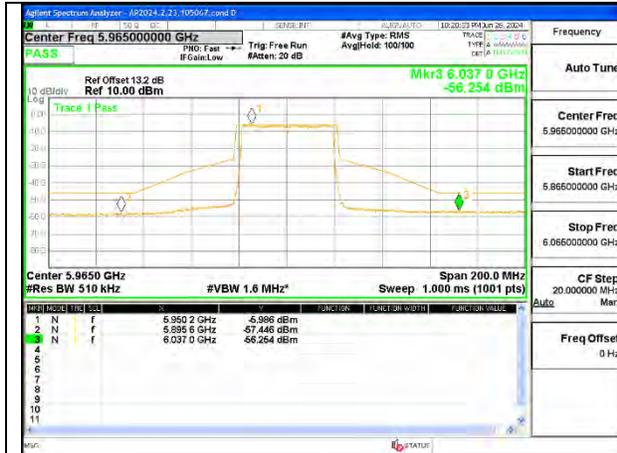
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 84



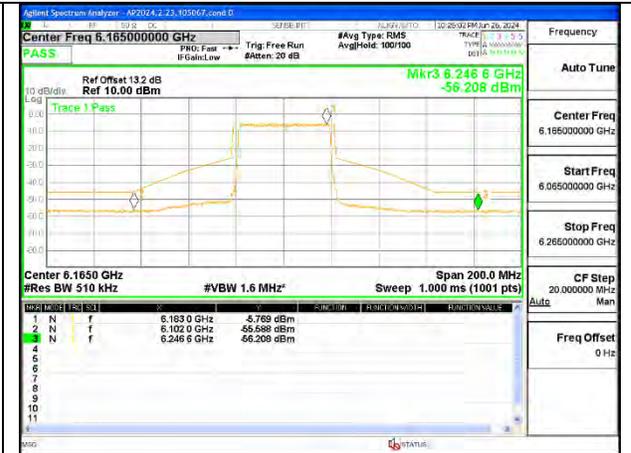
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 85



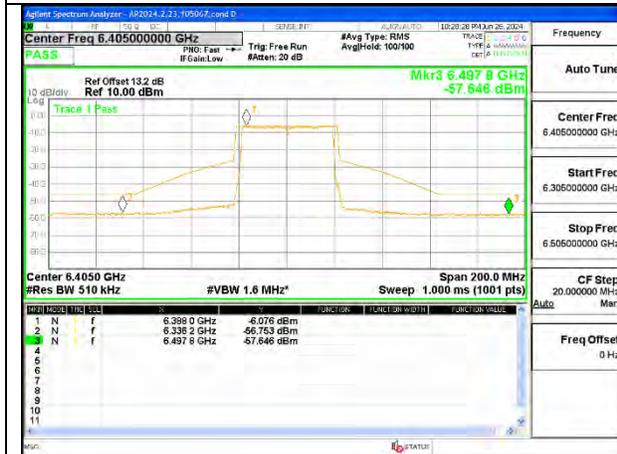
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5965

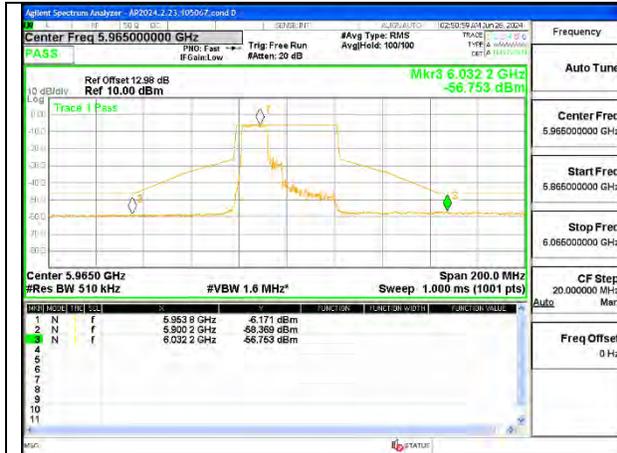


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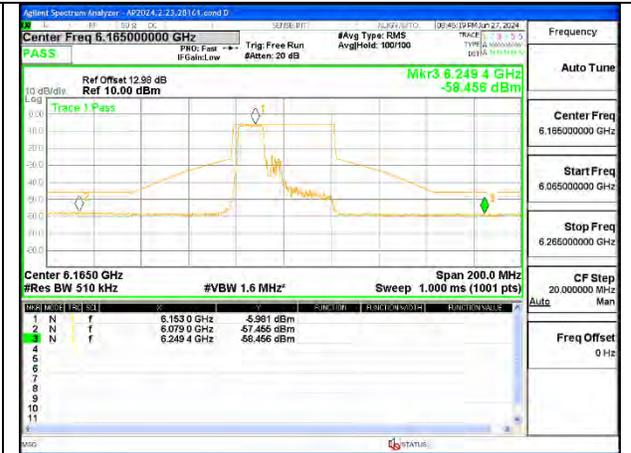


HIGH CHANNEL 6405

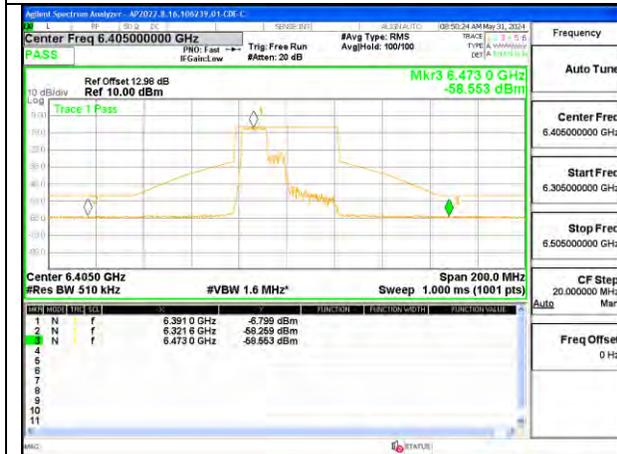
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 82



LOW CHANNEL 5965

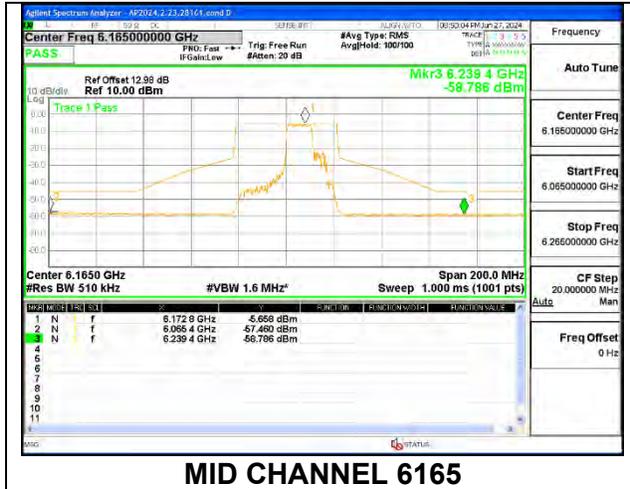


MID CHANNEL 6165



HIGH CHANNEL 6405

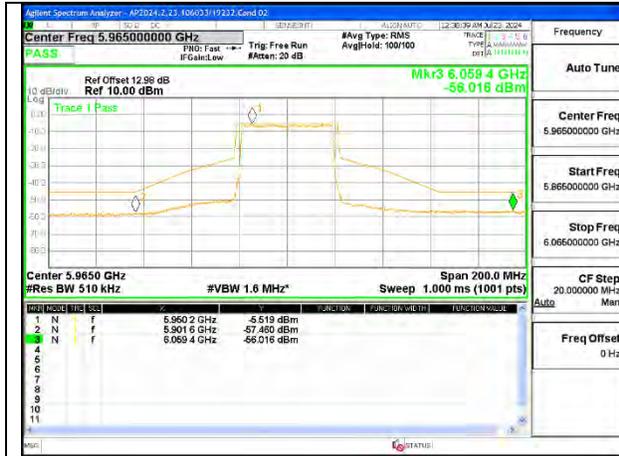
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 84



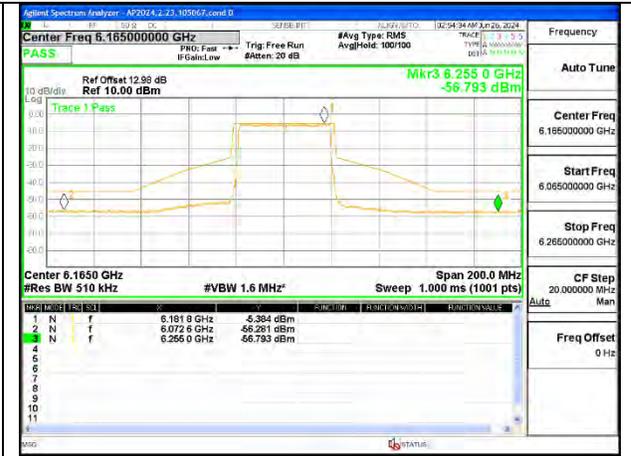
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106 + 26-Tones, RU Index 85



1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE



LOW CHANNEL 5965

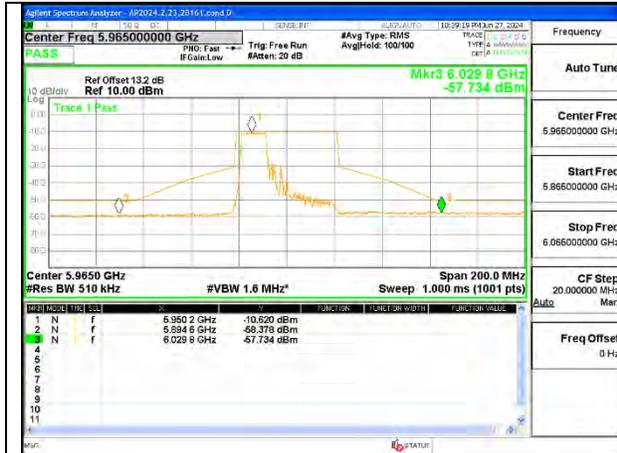


MID CHANNEL 6165

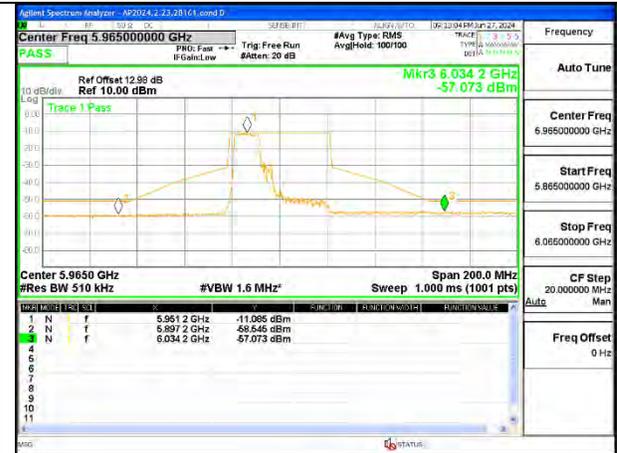


HIGH CHANNEL 6405

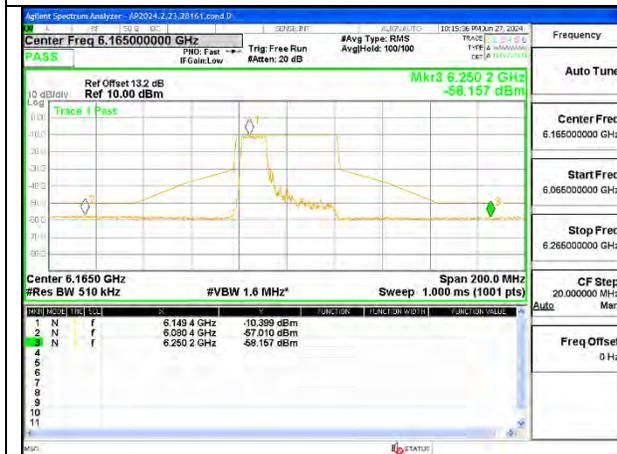
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 82



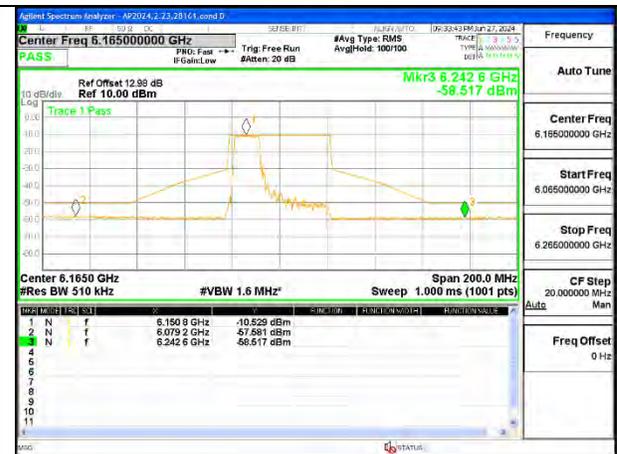
LOW CHANNEL ANT 6 5965



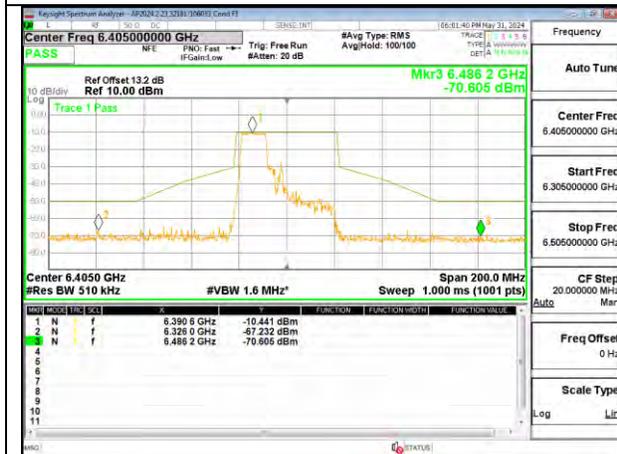
LOW CHANNEL ANT 5 5965



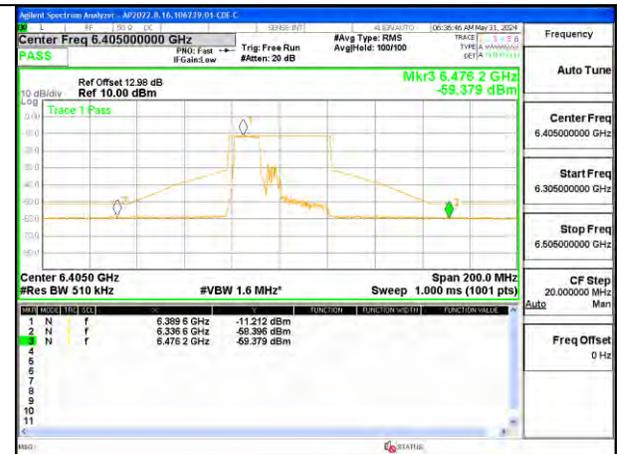
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MID CHANNEL ANT 5 6165

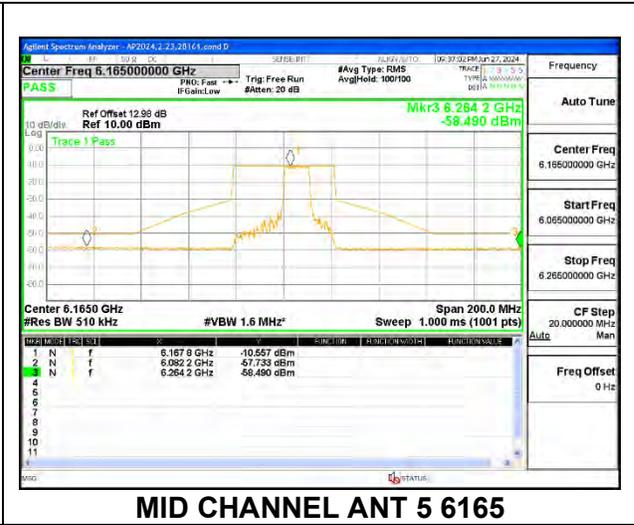
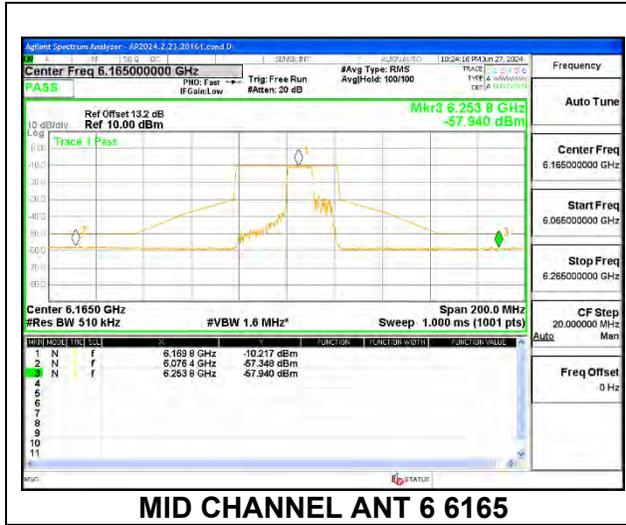


HIGH CHANNEL ANT 6 6405

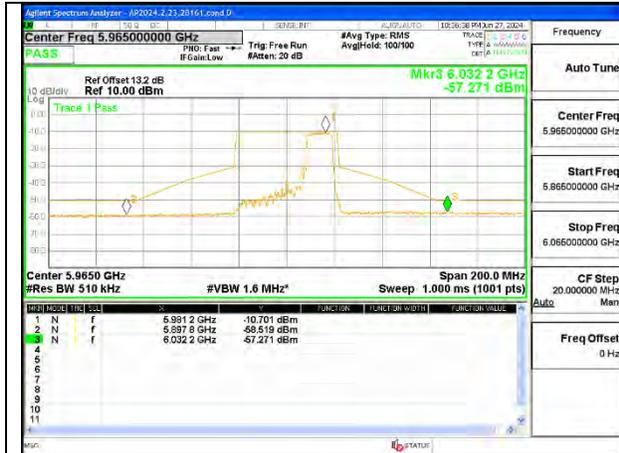


HIGH CHANNEL ANT 5 6405

2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 84



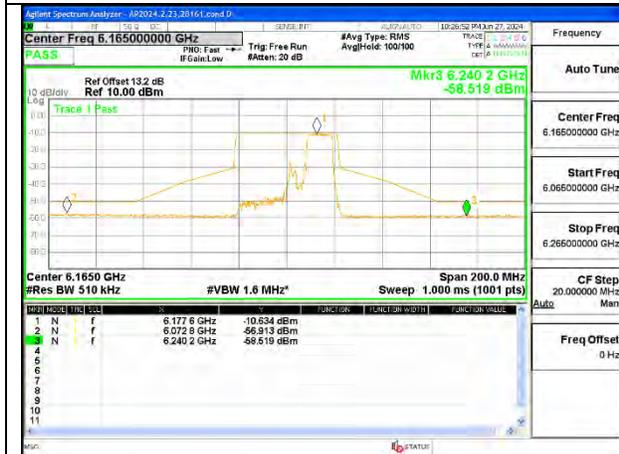
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – 106 + 26-Tones, RU Index 85



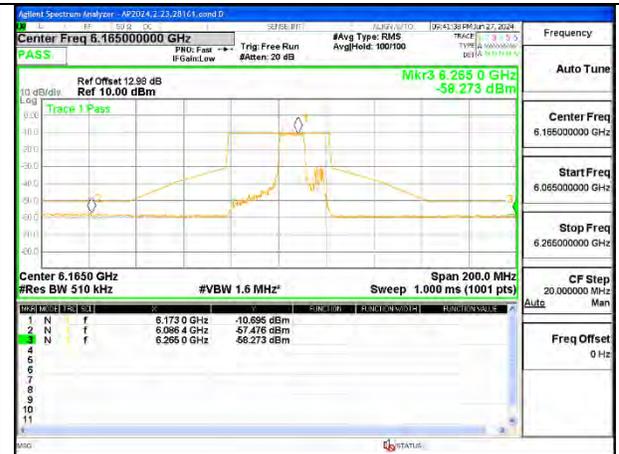
LOW CHANNEL ANT 6 5965



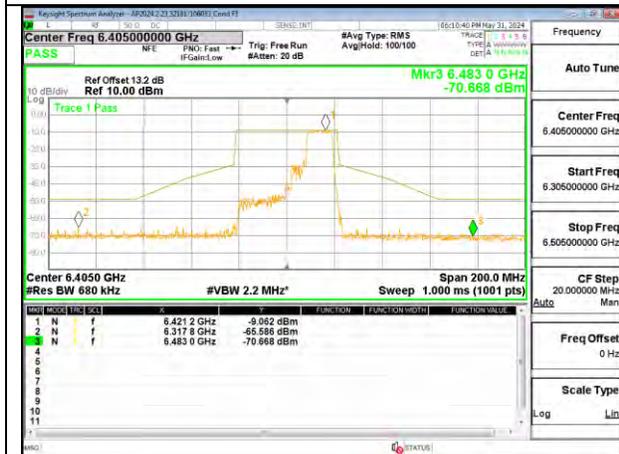
LOW CHANNEL ANT 5 5965



MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165



HIGH CHANNEL ANT 6 6405

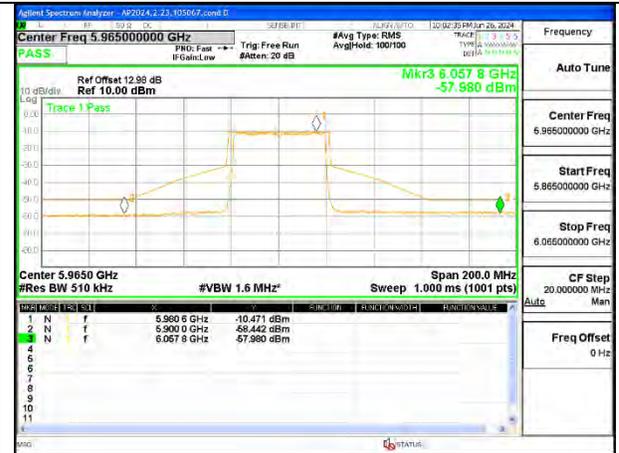


HIGH CHANNEL ANT 5 6405

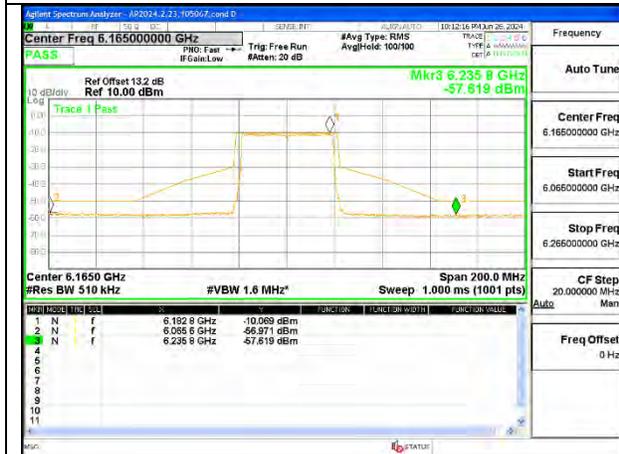
2TX Antenna 6 + Antenna 5 CDD MODE (FCC + IC) – SU MODE



LOW CHANNEL ANT 6 5965



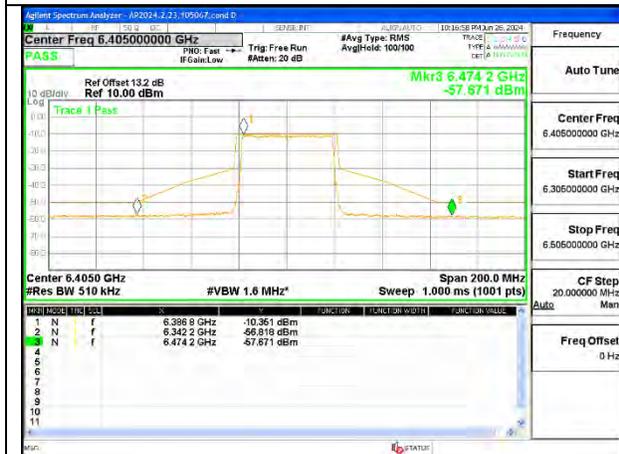
LOW CHANNEL ANT 5 5965



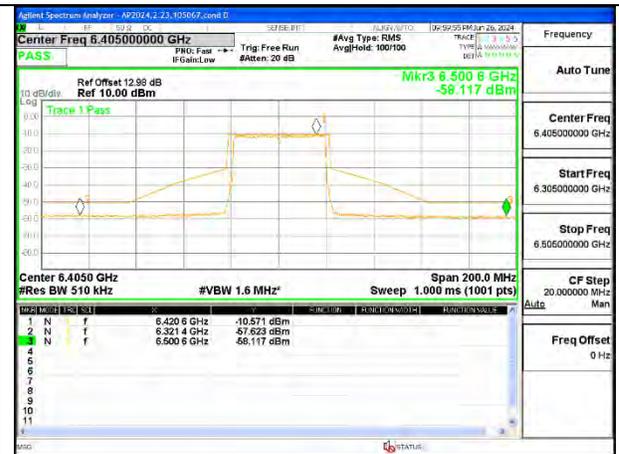
MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165

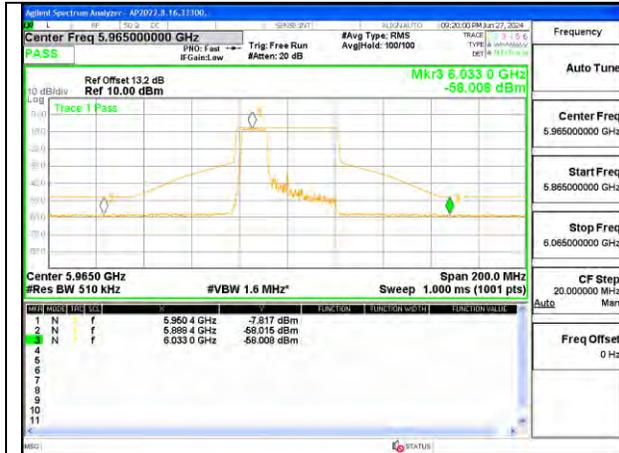


HIGH CHANNEL ANT 6 6405

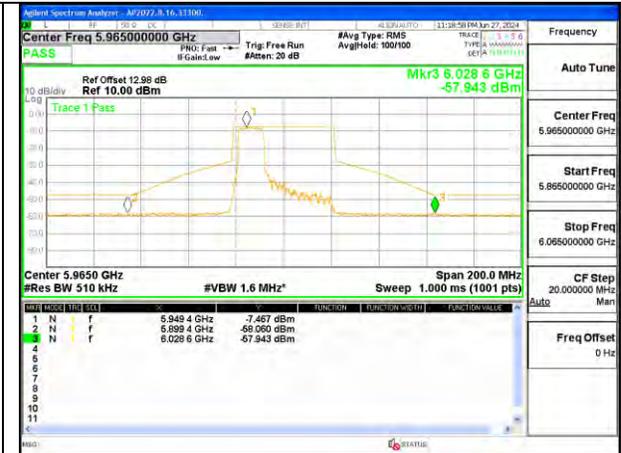


HIGH CHANNEL ANT 5 6405

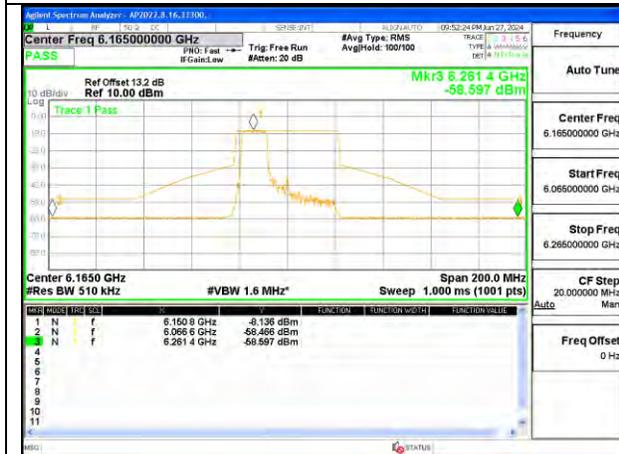
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26-Tones, RU Index 82



LOW CHANNEL ANT 6 5965



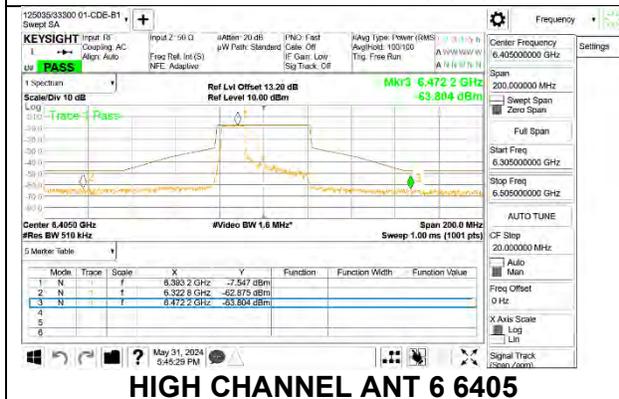
LOW CHANNEL ANT 5 5965



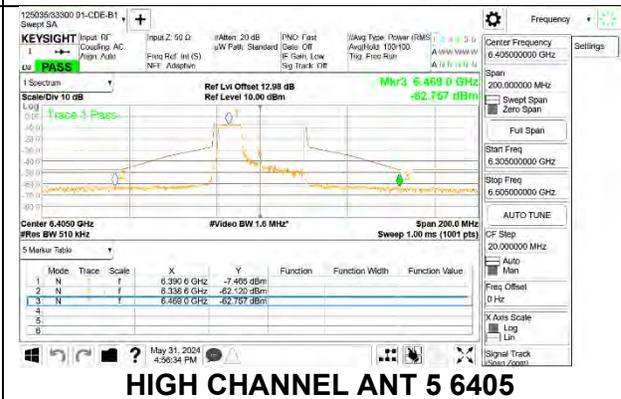
MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165

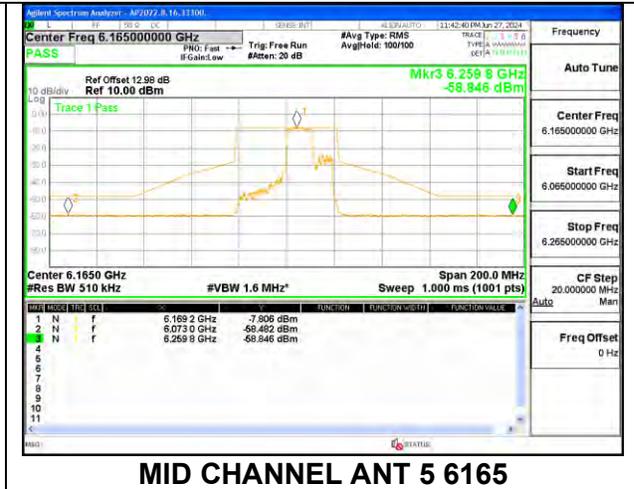
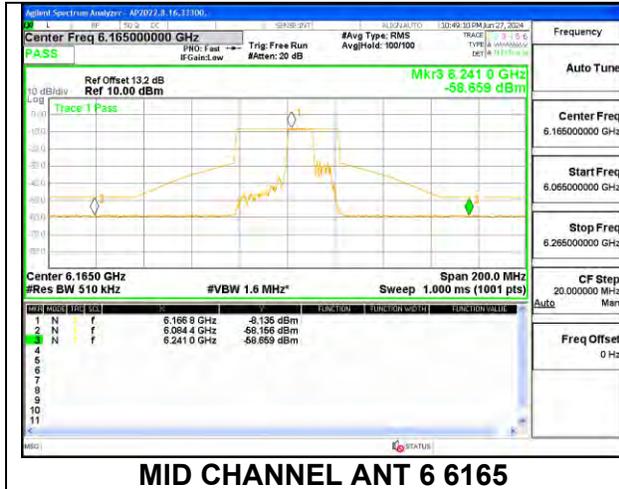


HIGH CHANNEL ANT 6 6405

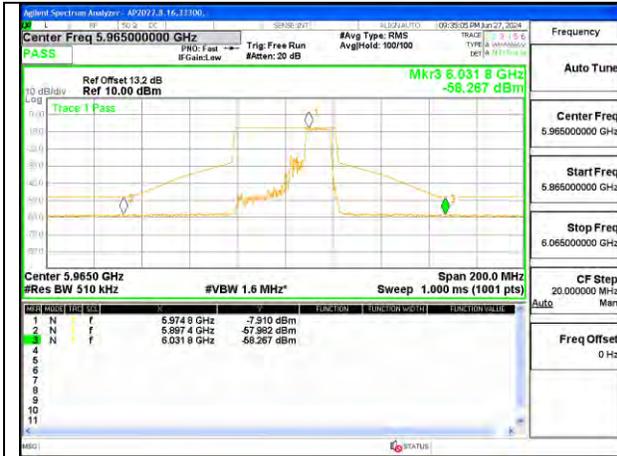


HIGH CHANNEL ANT 5 6405

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26 -Tones, RU Index 84



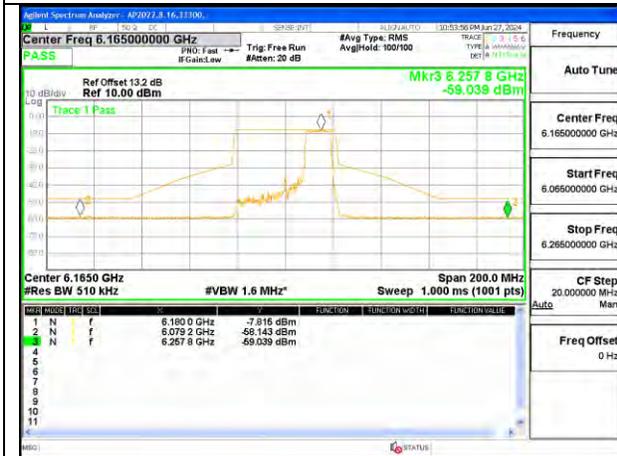
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106 + 26 -Tones, RU Index 85



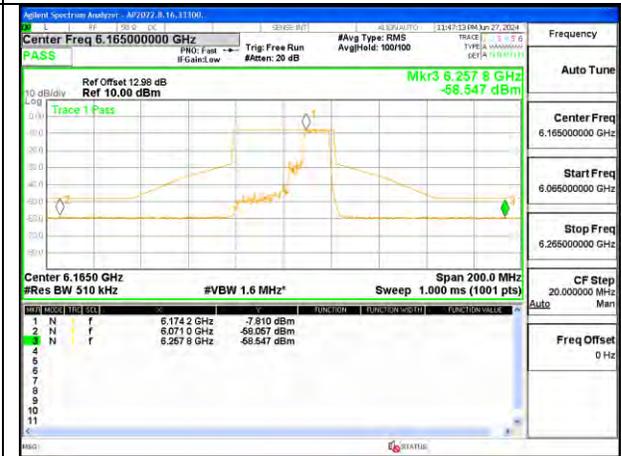
LOW CHANNEL ANT 6 5965



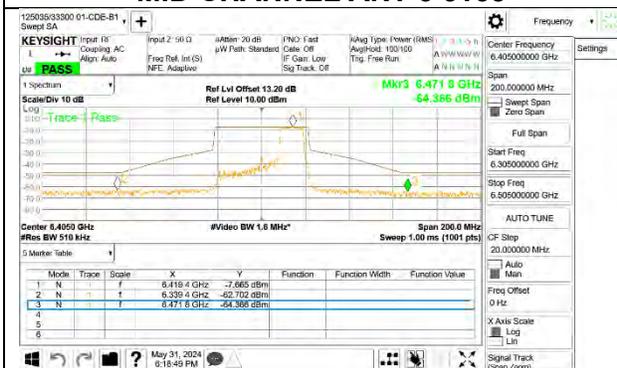
LOW CHANNEL ANT 5 5965



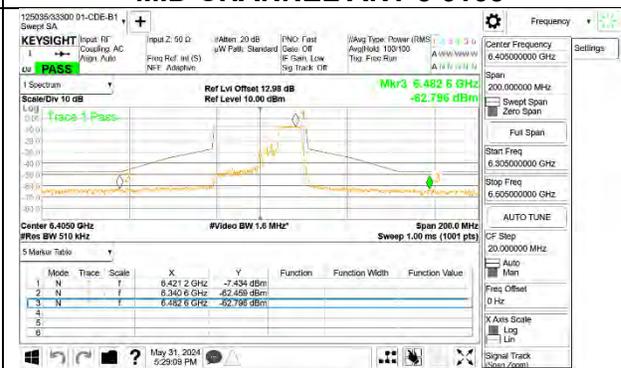
MID CHANNEL ANT 6 6165



MID CHANNEL ANT 5 6165

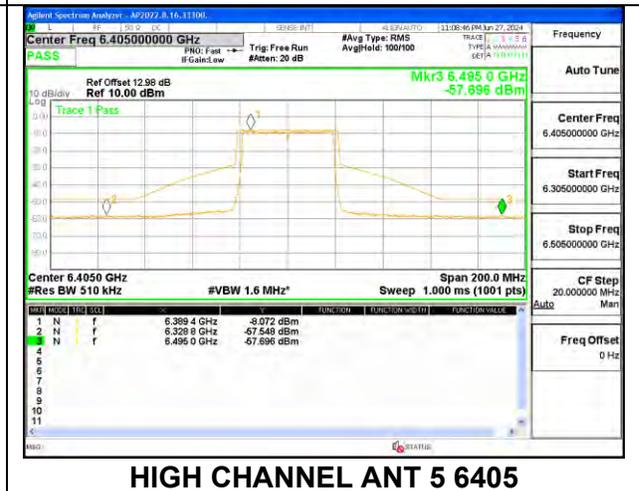
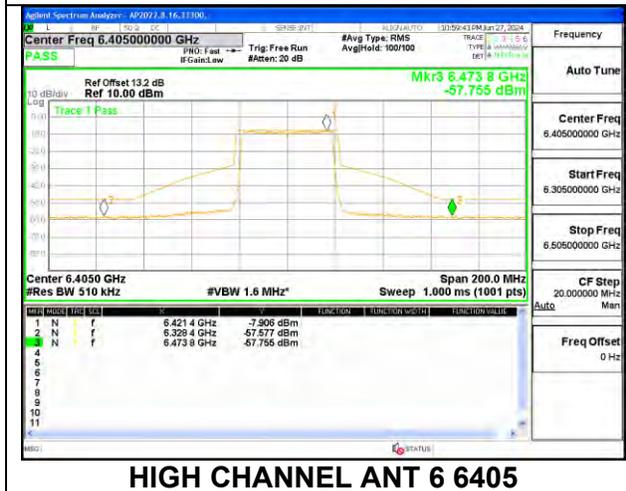
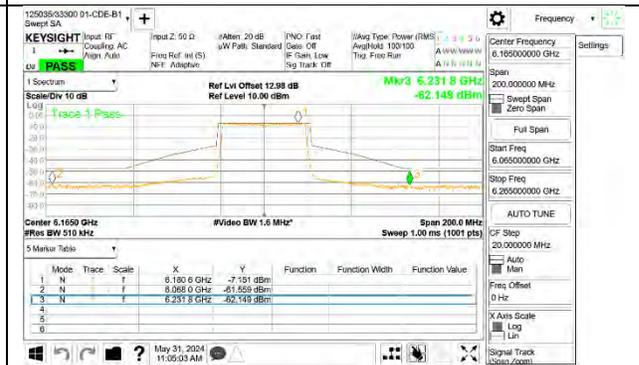
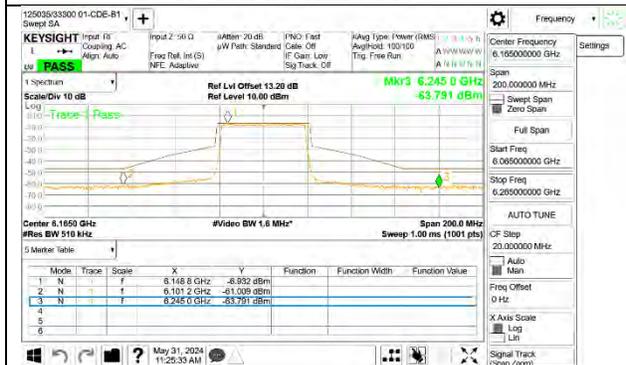
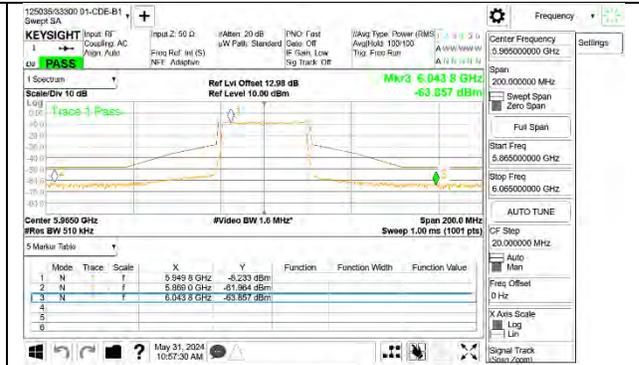
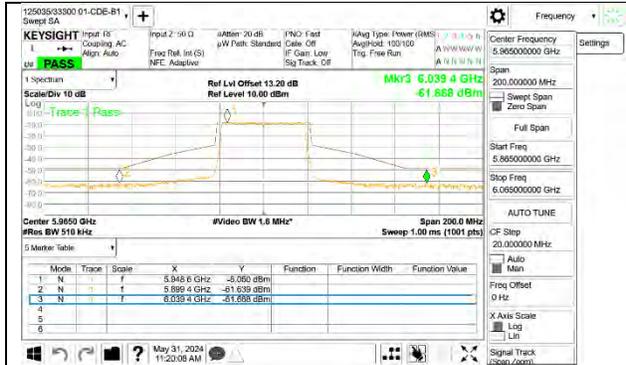


HIGH CHANNEL ANT 6 6405



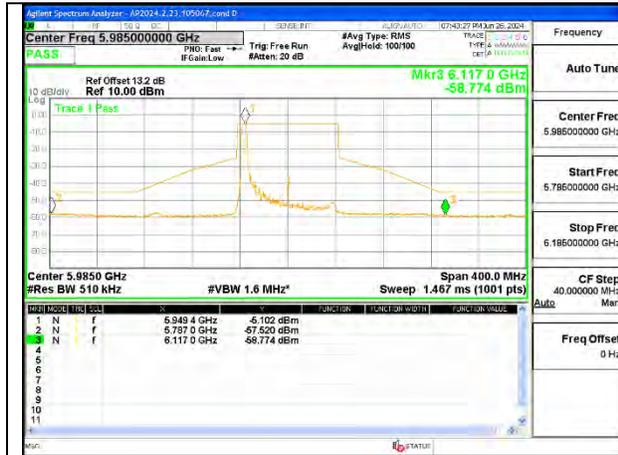
HIGH CHANNEL ANT 5 6405

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode

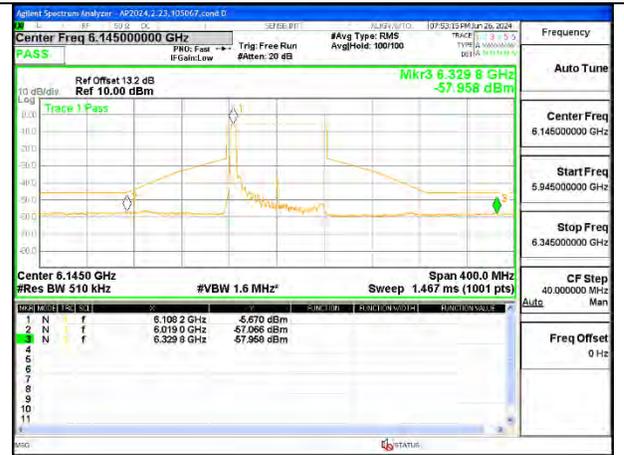


9.6.3. 802.11be EHT80 MODE IN THE UNII-5 BAND

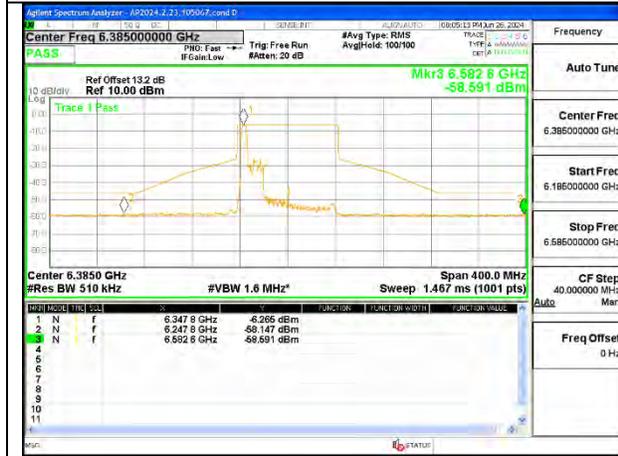
1TX Antenna 6 MODE (FCC-IC) MOBILE – 52-Tones, RU Index 37



LOW CHANNEL 5985



MID CHANNEL 6145



HIGH CHANNEL 6385