

# TEST REPORT

**Report Number:** 14523744-E10V2

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

**Model :** A3101 (Parent Model)  
A3102, A3104 (Variant Models)

**Brand :** APPLE

**FCC ID :** BCG-E8436A (Parent Model)  
BCG-E8437A, BCG-E8438A (Variant Models)

**EUT Description :** SMARTPHONE

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

**Date Of Issue:**  
2023/08/14

**Prepared by:**  
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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** APPLE INC.  
 1 APPLE PARK WAY  
 CUPERTINO, CA 95014, U.S.A

**EUT DESCRIPTION:** SMARTPHONE

**MODEL:** A3101 (Parent Model)  
 A3102, A3104 (Variant Models)

**BRAND:** APPLE

**SERIAL NUMBER:** C07GQW000CA00003PN (Conducted)  
 C07GT40004U00006GU (Conducted)  
 CLX2X4640T (Radiated)  
 CY2KJ6YF12 (Radiated)

**SAMPLE RECEIPT DATE:** FEBRUARY 14, 2023

**DATE TESTED:** FEBRUARY 21, 2023 – August 11, 2023

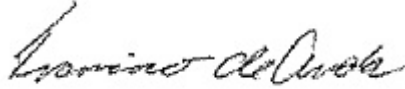
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. 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.

Approved & Released For  
UL Verification Services Inc. By:



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Consumer Technology Division  
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 the validity of results after the integration of the data provided by the customer.

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	ANSI C63.10 Section 12.2 ...
See Comment	99% BW	Reporting purposes only	ANSI C63.10 Section 6.9.3
See Comment	26dB BW	Reporting purposes only	None.
§15.407 (a) (7), (8)	Output Power e.i.r.p.	Compliant	Dual Client.
§15.407 (a) (7), (8)	PSD e.i.r.p	Compliant	Dual Client.
§15.407 (b) (6)	Emissions outside 5.925-7.125 GHz band	Compliant	None
§15.407 (b) (7)	Emissions within 5.925-7.125 GHz Band(Emissions Mask)	Compliant	None
§15.205	Unwanted emissions in restricted bands	Compliant	None
§15.209	Radiated Spurious Emissions	Compliant	None
§15.207	AC Mains Conducted Emissions	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 15E
- FCC KDB 662911 D01 v02r01
- FCC KDB 789033 D02 v02r01
- FCC KDB 987594 D01 General Requirements v02r1
- FCC KDB 987594 D02 EMC Measurement v02r1
- KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2013

### 4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number #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 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 (Peak) 1.300 dB (Ave)
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 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 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 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G NR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth (BT), Ultra-Wideband (UWB), GPS, NFC, NB UNII, 802.15.4, 802.15.4b-NB and MSS technologies. The rechargeable battery is not user accessible.

This report covers 6E 802.11ax Wifi radio.

### 6.2. EUT DEVICE CLASS

Dual Client	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"/>

### 6.3. MAXIMUM OUTPUT POWER

The transmitter has a maximum average EIRP output power as follows:

#### 6.3.1. LP MODE

##### UNII-5 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
<b>UNII-5 Band, 1TX</b>			
5955-6415	802.11ax HE20	8.98	7.91
5965-6405	802.11ax HE40	11.75	14.96
5985-6385	802.11ax HE80	14.33	27.10
6025-6345	802.11ax HE160	17.29	53.58
<b>UNII-5 Band, 2TX</b>			
5955-6415	802.11ax HE20 OFDMA	5.95	3.94
5955-6415	802.11ax HE20 OFDMA, SDM	8.88	7.73
5965-6405	802.11ax HE40 OFDMA	8.80	7.59
5965-6405	802.11ax HE40 OFDMA, SDM	11.87	15.38
5985-6385	802.11ax HE80 OFDMA	11.36	13.68
5985-6385	802.11ax HE80 OFDMA, SDM	14.36	27.29
6025-6345	802.11ax HE160 OFDMA	14.32	27.04
6025-6345	802.11ax HE160 OFDMA, SDM	17.41	55.08

**UNII-6 BAND**

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
<b>UNII-6 Band, 1TX</b>			
6435 - 6515	802.11ax HE20	8.91	7.78
6445 - 6525	802.11ax HE40	11.88	15.42
6465	802.11ax HE80	14.40	27.54
6505	802.11ax HE160, Straddle Channel	17.27	53.33
<b>UNII-6 band, 2TX</b>			
6435 - 6515	802.11ax HE20 OFDMA	5.90	3.89
6435 - 6515	802.11ax HE20 OFDMA, SDM	8.68	7.38
6445 - 6525	802.11ax HE40 OFDMA	9.50	8.91
6445 - 6525	802.11ax HE40 OFDMA	11.99	15.81
6465	802.11ax HE80 OFDMA	11.43	13.89
6465	802.11ax HE80 OFDMA, SDM	14.14	25.94
6505	802.11ax HE160 OFDMA, Straddle	14.87	30.68
6505	802.11ax HE160 OFDMA, SDM Straddle	17.45	55.56

**UNII-7 BAND**

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
<b>UNII-7 Band 1TX</b>			
6535-6875	802.11ax HE20	8.79	7.57
6565-6845	802.11ax HE40	11.75	14.96
6545-6845	802.11ax HE80	14.27	26.73
666-6825	802.11ax HE160	17.32	53.95
<b>UNII-7 Band 2TX</b>			
6535-6715	802.11ax HE20 OFDMA	6.21	4.18
6535-6715	802.11ax HE20 OFDMA, SDM	8.71	7.43
6565-6845	802.11ax HE40 OFDMA	9.19	8.30
6565-6845	802.11ax HE40 OFDMA, SDM	11.72	14.86
6545-6865	802.11ax HE80 OFDMA	11.02	12.65
6545-6845	802.11ax HE80 OFDMA, SDM	14.16	26.06
6665-6825	802.11ax HE160 OFDMA	14.67	29.31
6665-6825	802.11ax HE160 OFDMA, SDM	17.21	52.60

**UNII-8 BAND**

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
<b>UNII-8 Band 1TX</b>			
6895-7115	802.11ax HE20	8.74	7.48
6965-7085	802.11ax HE40	11.71	14.83
6945-7025	802.11ax HE80	14.21	26.36
6985	802.11ax HE160	15.82	38.19
<b>UNII-8 Band 2TX</b>			
6895-7115	802.11ax HE20 OFDMA	6.13	4.10
6895-7115	802.11ax HE20 OFDMA, SDM	8.87	7.71
6965-7085	802.11ax HE40 OFDMA	9.24	8.39
6965-7085	802.11ax HE40 OFDMA, SDM	11.88	15.42
6945-7025	802.11ax HE80 OFDMA	11.58	14.39
6945-7025	802.11ax HE80 OFDMA, SDM	14.33	27.10
6985	802.11ax HE160 OFDMA	14.62	28.97
6985	802.11ax HE160 OFDMA, SDM	17.06	50.82



### 6.3.2. SP MODE

The transmitter has a maximum average e.i.r.p. output power as follows:

#### UNII-5 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
<b>UNII-5 Band, 1TX</b>			
5955-6415	802.11ax HE20	17.94	62.23
5965-6405	802.11ax HE40	17.87	61.24
5985-6385	802.11ax HE80	17.98	62.81
6025-6345	802.11ax HE160	17.83	60.67
<b>UNII-5 Band, 2TX</b>			
5955-6415	802.11ax HE20 OFDMA	19.73	93.97
5955-6415	802.11ax HE20 SDM	Covered by 802.11ax HE20 OFDMA	
5965-6405	802.11ax HE40 OFDMA	19.83	96.16
5955-6405	802.11ax HE40 SDM	Covered by 802.11ax HE40 OFDMA	
5985-6385	802.11ax HE80 OFDMA	19.81	95.72
5985-6385	802.11ax HE80 SDM	Covered by 802.11ax HE80 OFDMA	
6025-6345	802.11ax HE160 OFDMA	19.80	95.50
6025-6345	802.11ax HE160 SDM	Covered by 802.11ax HE160 OFDMA	

#### UNII-7 BAND

Frequency Range (MHz)	Mode	Output Power EIRP (dBm)	Output Power EIRP (mW)
<b>UNII-7 Band 1TX</b>			
6535-6855	802.11ax HE20	17.57	57.15
6565-6845	802.11ax HE40	17.54	56.75
6625-6785	802.11ax HE80	17.48	55.98
6665	802.11ax HE160	17.54	56.75
<b>UNII-7 Band 2TX</b>			
6535-6855	802.11ax HE20 OFDMA	18.72	74.47
6535-6855	802.11ax HE20 SDM	Covered by 802.11ax HE20 OFDMA	
6565-6845	802.11ax HE40 OFDMA	18.74	74.82
6565-6845	802.11ax HE40 SDM	Covered by 802.11ax HE40 OFDMA	
6625-6785	802.11ax HE80 OFDMA	18.72	74.47
6625-6785	802.11ax HE80 SDM	Covered by 802.11ax HE80 OFDMA	
6665	802.11ax HE160 OFDMA	18.73	74.64
6665	802.11ax HE160 SDM	Covered by 802.11ax HE160 OFDMA	

## 6.4. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

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

Antenna Gain					
Frequency Range	Sub-band	Antenna 6	Antenna 5	Uncorrelated Chains	Correlated Chains
(MHz)	(MHz)	Gain (dBi)	Gain (dBi)	Directional Gain (dBi)	Directional Gain (dBi)
5925 - 6425 UNII-5	Sub-band 1 (5955 - 6095)	-3.10	-4.70	-3.83	-0.85
	Sub-band 2 (6115 - 6255)	-1.50	-4.20	-2.64	0.26
	Sub-band 3 (6275 - 6415)	-2.40	-4.40	-3.29	-0.33
6425 - 6525 UNII-6	N/A	-1.80	-4.70	-3.01	-0.12
UNII-6/7 (Straddle Channel)	N/A	-0.90	-4.70	-2.40	0.42
6525 - 6875 UNII-7	N/A	-0.90	-5.90	-2.72	-0.03
UNII-7/8 (Straddle Channel)	N/A	-0.90	-5.90	-2.72	-0.03
6875 - 7125 UNII-8	N/A	-2.50	-7.50	-4.32	-1.63

Cable Loss		
Frequency Range (MHz)	Antenna 6 (dBi)	Antenna 5 (dBi)
5925-6105	2.93	3.20
6105-6265	2.93	3.20
6265-6425	2.98	3.40
6425-6525	3.03	3.45
6525-6875	3.08	3.60
6875-7125	3.08	3.50

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

## 6.5. SOFTWARE AND FIRMWARE

The EUT Software and firmware installed during testing was 23\_10\_663

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## 6.6. 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) and only indoor client mode supports straddle channels.

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 802.11ax 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 Z (Portrait) orientation was worst-case orientation for ANT6 and Y (Landscape) was the worst-case orientation for 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 HE 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.

The output power and psd for the 802.11 ax mode were investigated between all different tones, and we found that SU mode had the highest output power and the lowest tone had the highest PSD readings. And after investigation, antenna port conducted tests were performed on both SU and lowest tones; radiated spurious emission and radiated band edge tests were performed on SU and lowest tones.

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:

802.11ax HE20/HE40/HE80/HE160 RU 26 Tones and SU modes: MCS0 & MCS11 (report MCS11 only as worst-case mode).

802.11ax HE20 Channel 233: supports SU Mode only per Client.

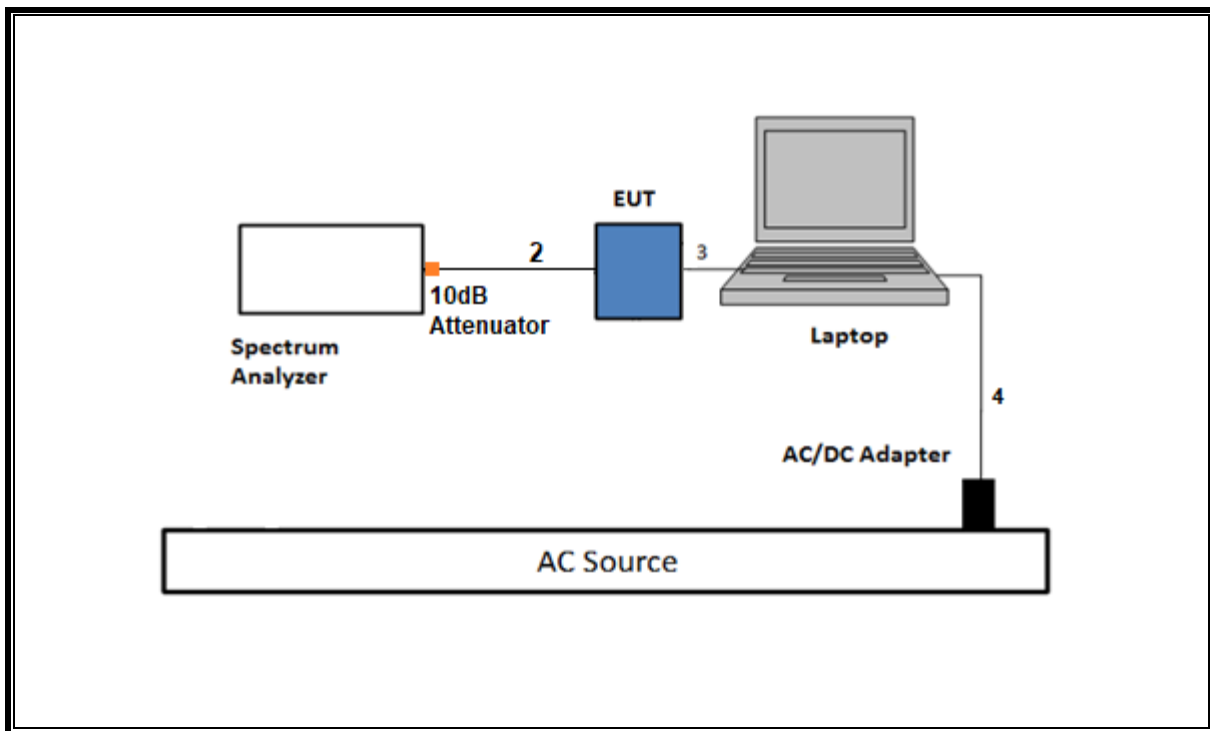
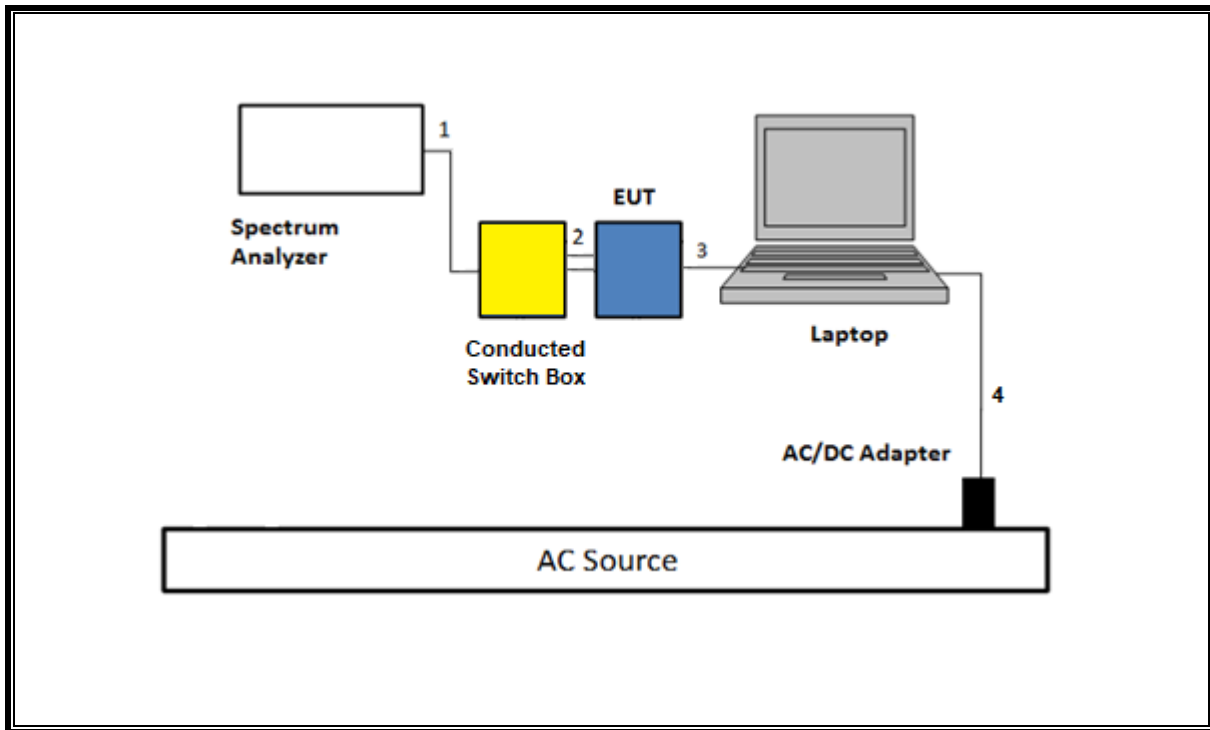
## 6.7. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
Laptop	Apple	Macbook Pro	C02VD7SAHV22	BCGA1708		
Laptop AC/DC adapter	Liteon Technology	A1424	NSW25679	DoC		
EUT AC/DC adapter	Apple	A1720	C3D8417A7R93KVPA8	DoC		
Conducted Switch Box	UL	n/a	208281	N/A		
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236358	N/A		
I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	SMA	1	SMA	Shielded	0.75	To spectrum Analyzer
2	Antenna	2	SMA	Un-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	AC	1	AC	Un-shielded	2	N/A
2	USB	1	USB	Shielded	1	N/A

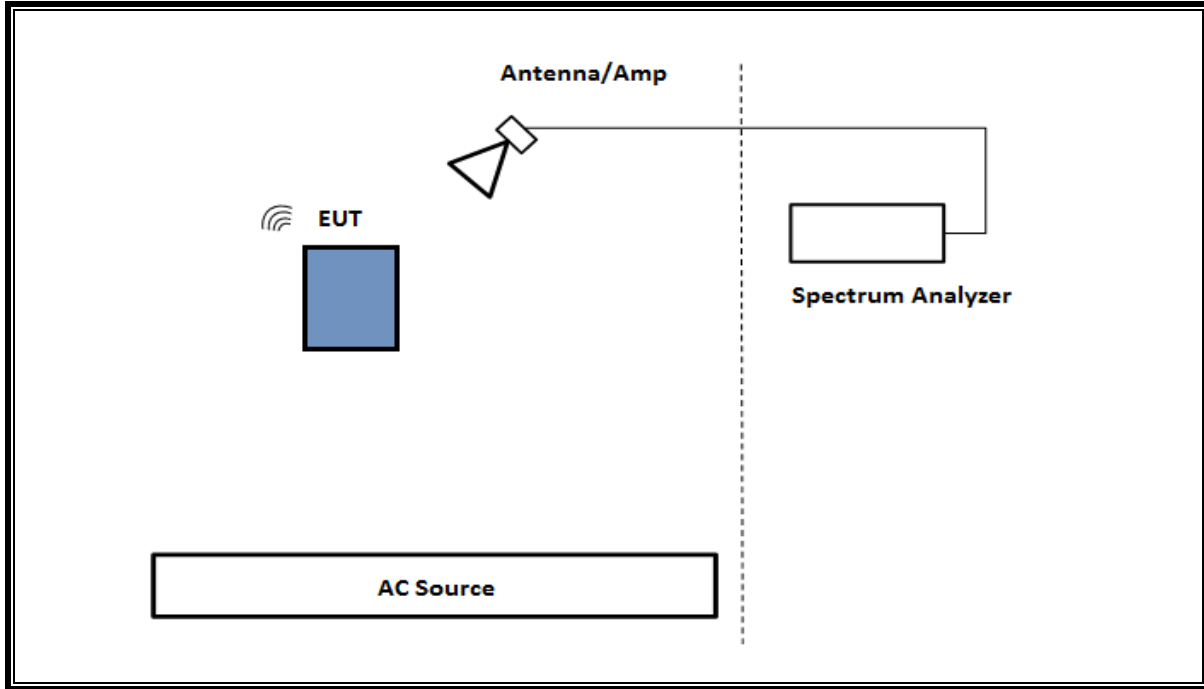
### TEST SETUP

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

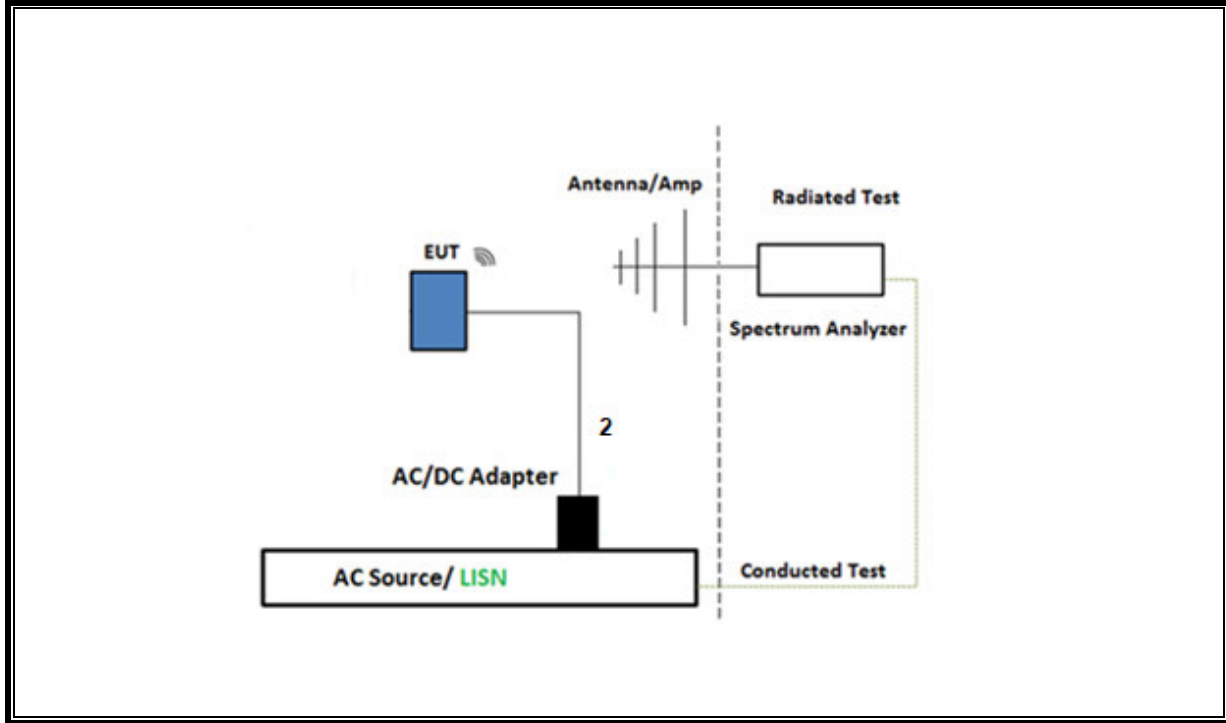
**SETUP DIAGRAM FOR CONDUCTED TESTS**



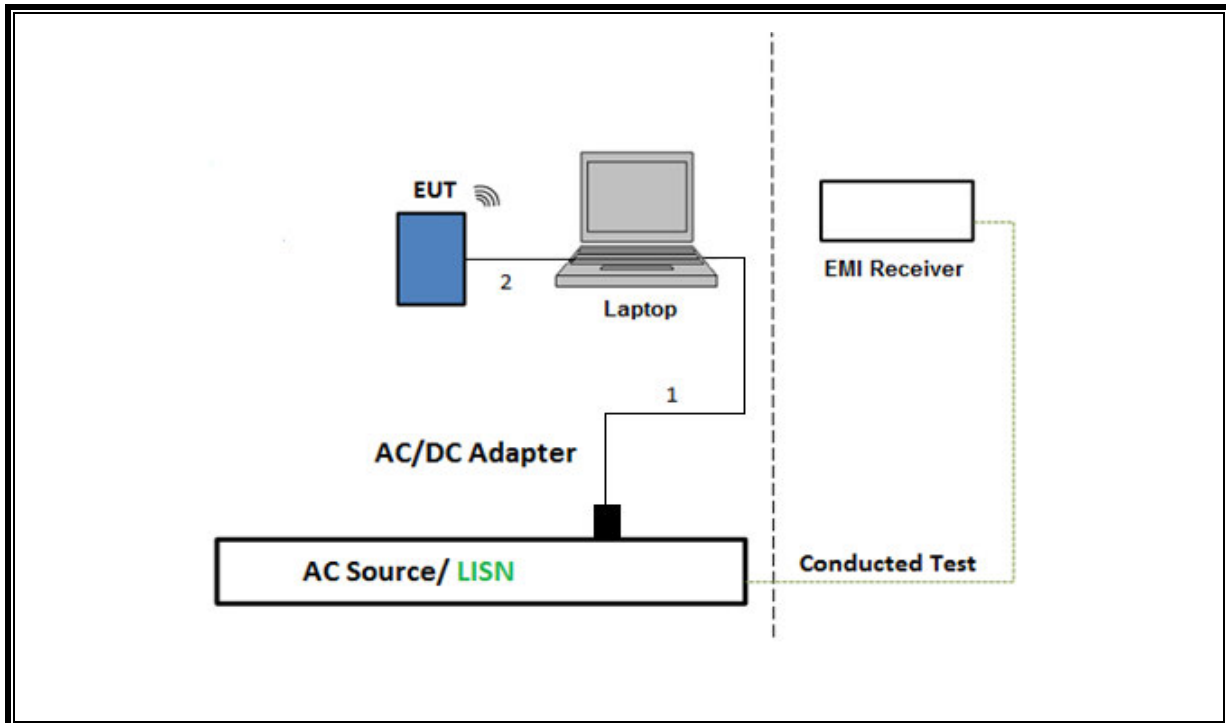
**SETUP DIAGRAM FOR RADIATED TESTS Above 1 GHz**



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



**TEST SETUP- AC LINE CONDUCTED: LAPTOP CONFIGURATION**



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## 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	Last Cal
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	230299	1/12/2024	1/12/2023
RF Filter Box, 1-18GHz, 12 Port.	UL-FR1	Frankenstein	231874	4/19/2024	4/19/2023
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179372	2/29/2024	2/17/2023
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	222740	8/31/2023	8/31/2022
RF Filter Box, 1-18GHz, 12 Port	UL-FR1	Frankenstein	217255	8/23/2023	8/23/2022
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169936	2/19/2024	2/18/2023
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226673	1/9/2024	1/9/2023
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	226781	4/30/2024	4/27/2023
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2/29/2024	2/17/2023
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80707	5/31/2024	5/30/2023
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225079	10/31/2023	10/31/2022
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	223459	2/29/2024	2/18/2023
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	81887	3/31/2024	3/20/2023
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	225474	3/31/2024	3/27/2023
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201502	2/29/2024	2/20/2023
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	226671	1/9/2024	1/9/2023
RF Filter Box, 1-18GHz, 17 Ports	UL-FR1	RATS 2	226779	3/5/2024	3/5/2023
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	226078	2/29/2024	2/22/2023
*Antenna, Passive Loop 30Hz to 1MHz	Electro-Metrics	EM-6871	170014	7/19/2023	7/19/2022
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO- METRICS	EM-6872	170015	7/28/2023	7/28/2022
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	80714	10/6/2023	10/6/2022
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	170648	08/24/2023	08/24/2022-
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201497	2/29/2024	2/16/2023
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199658	12/6/2023	12/6/2022
Antenna, Horn 26.5 to 40GHz	A.R.A.	MWH-2640/B	199660	12/6/2023	12/6/2022
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	201499	2/29/2024	2/17/2023

Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	90756	1/31/2024	1/24/2023
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	90389	1/31/2024	1/24/2023
*Conducted Switch Box	N/A	CSB	221008	6/21/2023	6/21/2022
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236358	Verified/Characterized before use	
10dB Fixed Attenuator, 2 Watts Up to 26.5 GHz	Pasternack Enterprises	PE7024-10	236355	Verified/Characterized before use	
Spectrum Analyzer, PSA, 3Hz to 26.5GHz	Keysight Technologies Inc	E4440A	81311	2/29/2024	2/23/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80397	2/28/2024	2/23/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	85214	2/28/2024	2/23/2023
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A-544	87738	2/28/2024	2/23/2023

AC Line Conducted					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESR	93091	02/29/2024	02/29/2023
LISN for Conducted Emissions CISPR-16	FISCHER CUSTOM COMMUNICATIONS	FCC-LISN-50/250-25-2-01-480V	175764	01/31/2024	01/31/2023
*Transient Limiter	TE	TBFL1	207996	07/15/2023	07/15/2022
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC	Ver 9.5, May 1 , 2023		
Conducted Software	UL	UL EMC	2020.8.16		
AC Line Conducted Software	UL	UL EMC	Ver 9.5, Mar 3, 2023		

\*Testing was completed before equipment calibration due date

## 9. ANTENNA PORT TEST RESULTS

### 9.1. ON TIME AND DUTY CYCLE

#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

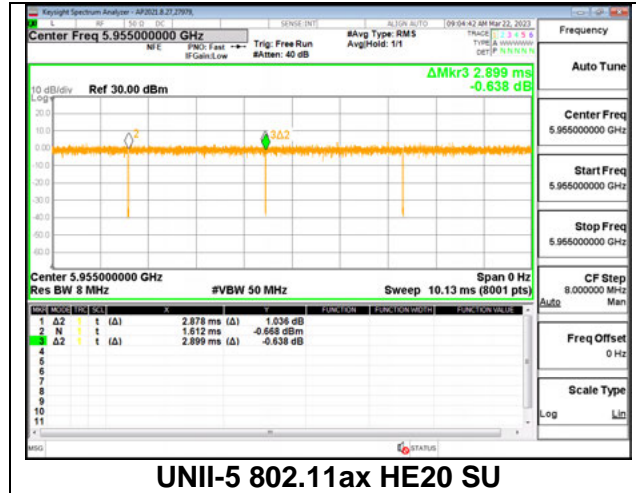
KDB 789033 Zero-Span Spectrum Analyzer Method.

#### ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11ax HE20 RU26, MCS0	3.967	4.042	0.981	98.14%	0.00	0.010
802.11ax HE20 RU26, MCS11	0.292	0.326	0.894	89.39%	0.49	3.429
802.11ax HE20 SU, MCS0	2.878	2.899	0.993	99.28%	0.00	0.010
802.11ax HE20 SU, MCS11	0.226	0.247	0.915	91.48%	0.39	4.433
802.11ax HE40 RU26, MCS0	3.958	4.033	0.981	98.14%	0.00	0.010
802.11ax HE40 RU26, MCS11	0.292	0.328	0.888	88.79%	0.52	3.431
802.11ax HE40 SU, MCS0	3.794	3.815	0.994	99.45%	0.00	0.010
802.11ax HE40 SU, MCS11	0.282	0.303	0.930	92.97%	0.32	3.551
802.11ax HE80 RU26, MCS0	3.978	4.038	0.985	98.51%	0.00	0.010
802.11ax HE80 RU26, MCS11	0.290	0.327	0.889	88.85%	0.51	3.447
802.11ax HE80 SU, MCS0	1.841	1.863	0.988	98.82%	0.00	0.010
802.11ax HE80 SU, MCS11	0.167	0.189	0.885	88.51%	0.53	5.981
802.11ax HE160 RU26, MCS0	3.970	4.015	0.989	98.88%	0.00	0.010
802.11ax HE160 RU26, MCS11	0.291	0.328	0.887	88.66%	0.52	3.439
802.11ax HE160 SU, MCS0	0.953	0.974	0.978	97.80%	0.10	1.050
802.11ax HE160 SU, MCS11	0.113	0.134	0.844	84.38%	0.74	8.818
802.11ax HE20 RU26 SDM, MCS0	3.973	4.020	0.988	98.83%	0.00	0.010
802.11ax HE20 SU SDM, MCS0	3.791	3.823	0.992	99.16%	0.00	0.010
802.11ax HE40 RU26 SDM, MCS0	3.956	4.018	0.985	98.46%	0.00	0.010
802.11ax HE40 SU SDM, MCS0	1.913	1.941	0.986	98.56%	0.00	0.010
802.11ax HE80 RU26 SDM, MCS0	3.984	4.066	0.980	97.98%	0.09	0.251
802.11ax HE80 SU SDM, MCS0	0.957	0.978	0.978	97.83%	0.10	1.045
802.11ax HE160 RU26 SDM, MCS0	3.966	4.020	0.987	98.66%	0.00	0.010
802.11ax HE160 SU SDM, MCS0	0.5149	0.5369	0.959	95.90%	0.18	1.942

Note: There are same duty cycle factor on 1TX and 2TX

DUTY CYCLE PLOT



## 9.2. 26 AND 99% dB BANDWIDTH

### LIMITS

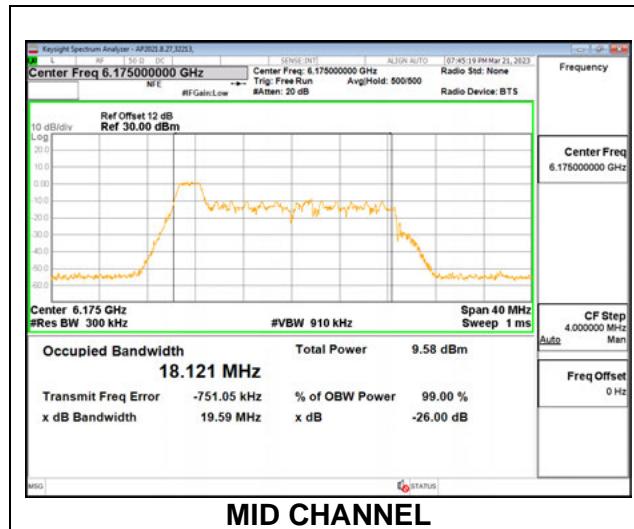
None; for reporting purposes only.

### RESULTS

#### 9.2.1. 802.11ax HE20 MODE IN THE UNII-5 BAND

##### 1TX Antenna 6 MODE: 26 Tones, RU Index 0

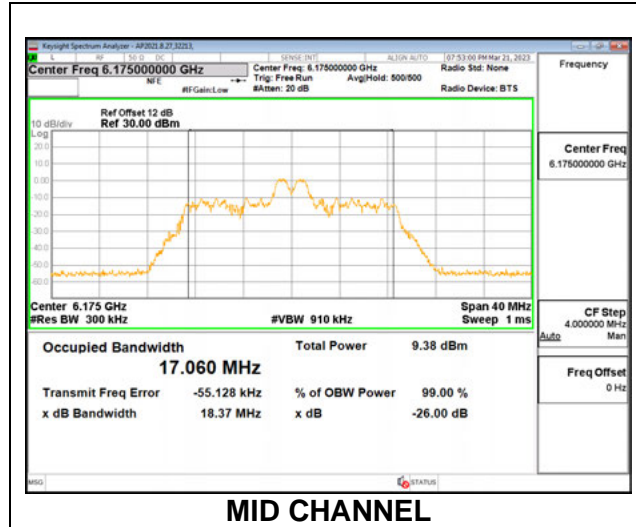
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	19.82	18.256
Mid	6175	19.59	18.121
High	6415	19.73	18.143



**MID CHANNEL**

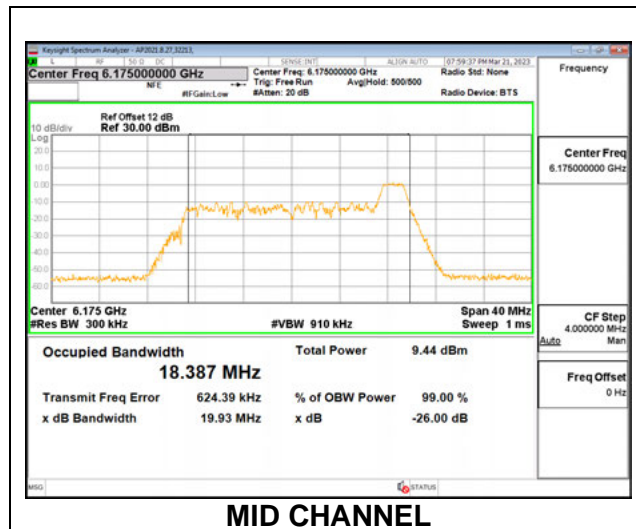
**1TX Antenna 6 MODE: 26 Tones, RU Index 4**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	18.36	16.966
Mid	6175	18.37	17.060
High	6415	18.42	16.933



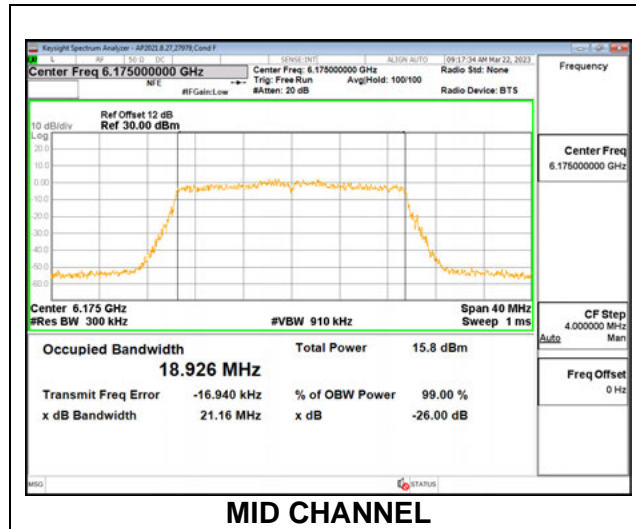
**1TX Antenna 6 MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	19.80	18.406
Mid	6175	19.93	18.387
High	6415	19.83	18.364



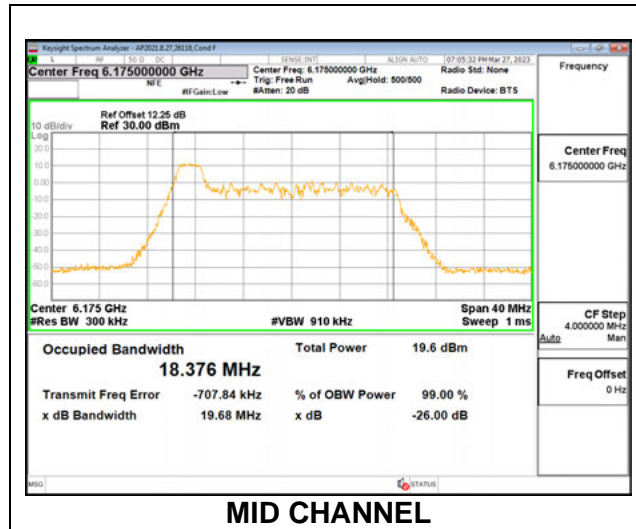
**1TX Antenna 6 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	21.00	18.980
Mid	6175	21.16	18.926
High	6415	20.93	18.953



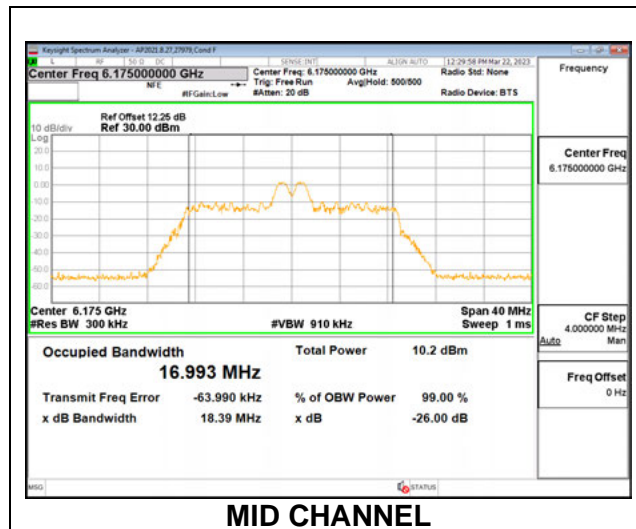
**1TX Antenna 5 MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	19.67	18.134
Mid	6175	19.68	18.376
High	6415	19.74	18.339



**1TX Antenna 5 MODE: 26 Tones, RU Index 4**

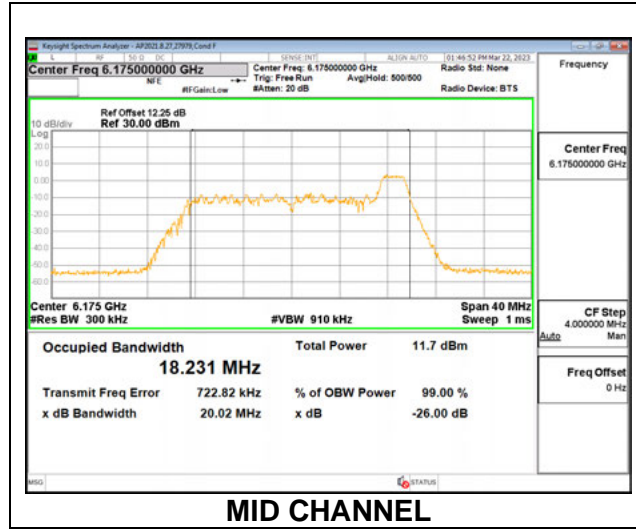
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	18.52	16.826
Mid	6175	18.39	16.993
High	6415	18.51	17.023





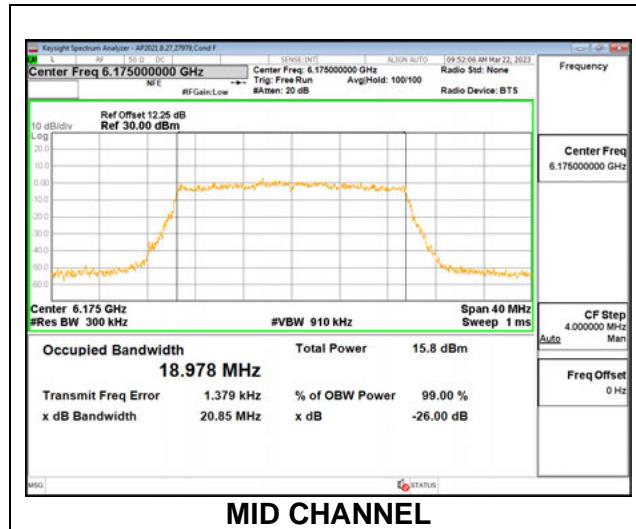
**1TX Antenna 5 MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	19.93	18.439
Mid	6175	20.02	18.231
High	6415	19.96	18.502



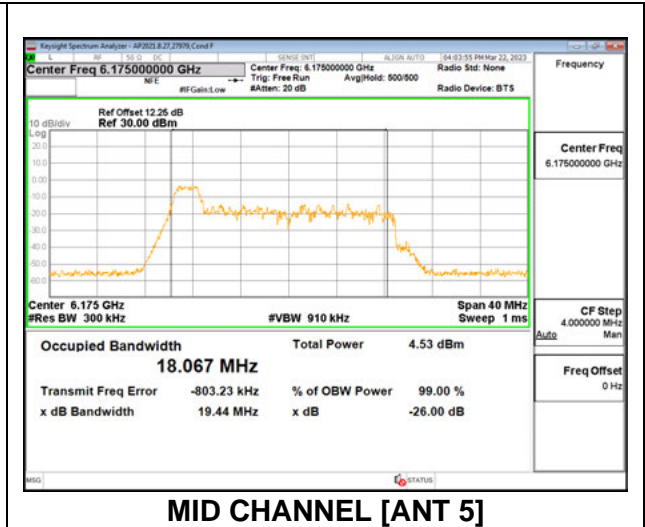
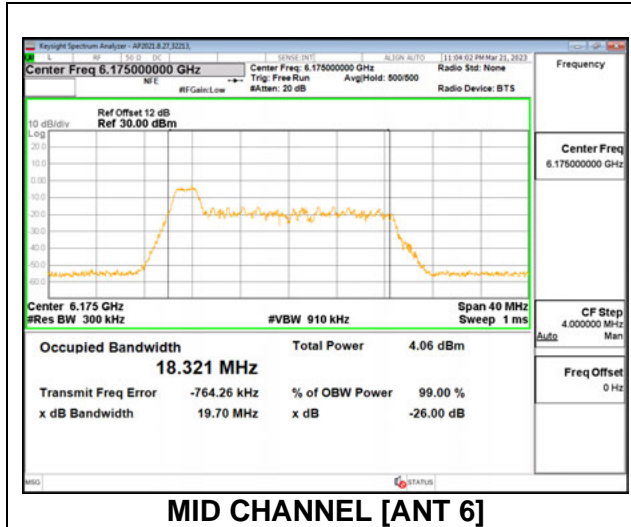
**1TX Antenna 5 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5955	21.00	18.975
Mid	6175	20.85	18.978
High	6415	21.05	18.965



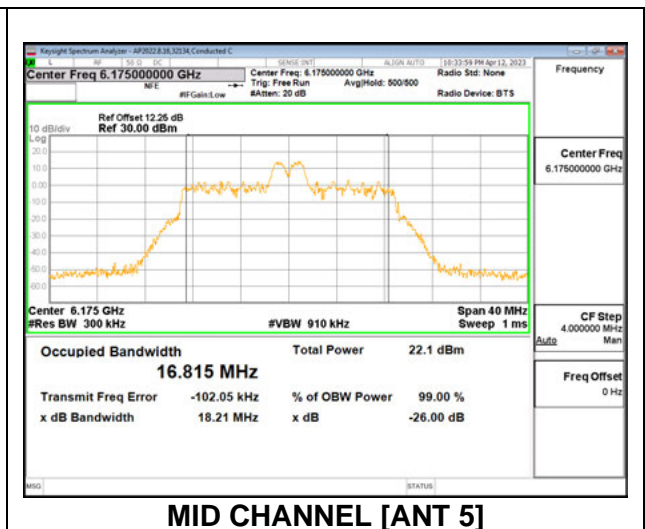
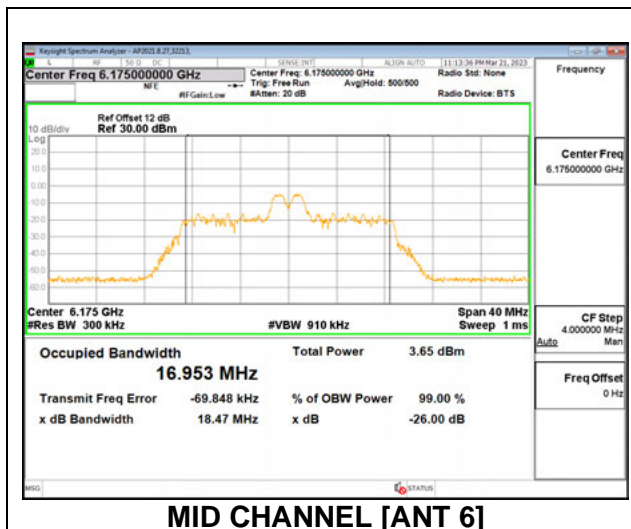
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	19.70	19.75	18.174	18.260
Mid	6175	19.70	19.44	18.321	18.067
High	6415	19.69	19.70	18.328	18.227



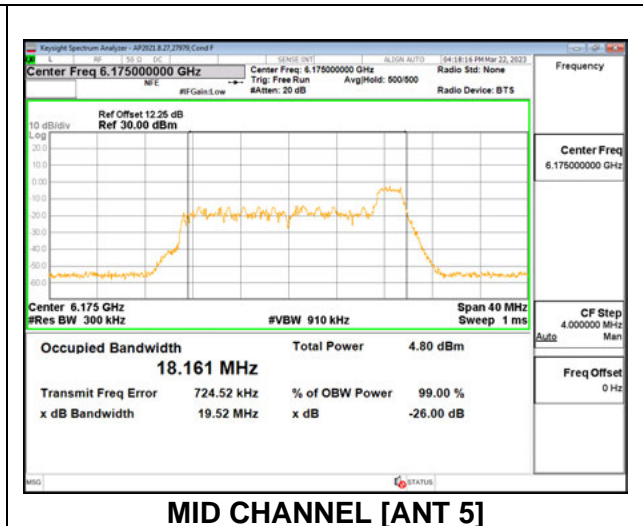
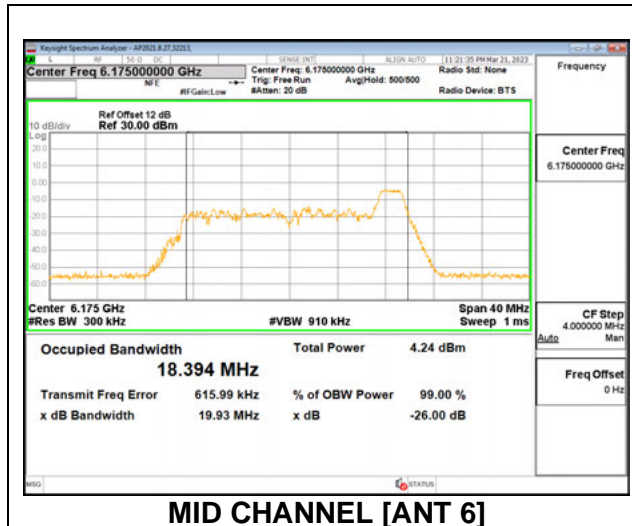
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 4**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	18.50	18.14	16.960	16.909
Mid	6175	18.47	18.21	16.953	16.815
High	6415	18.46	17.88	16.999	16.675



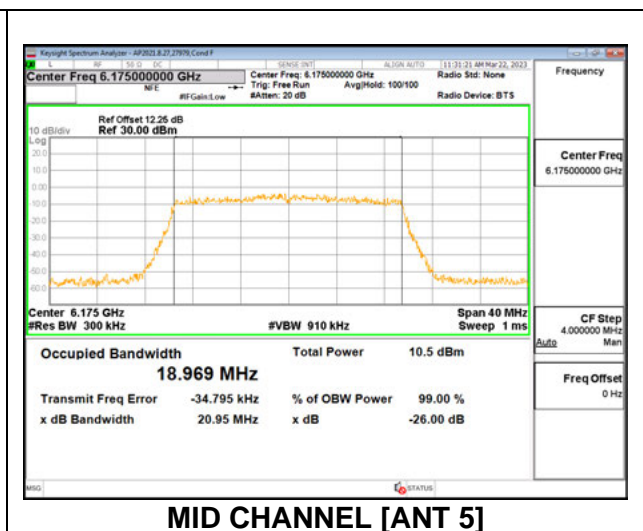
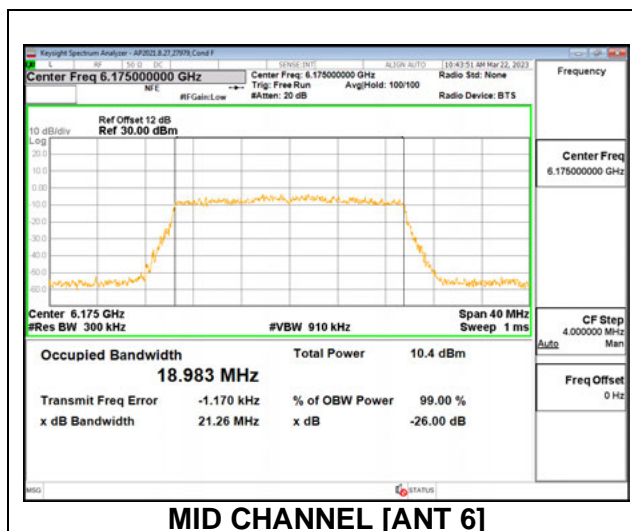
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	20.32	19.53	18.470	18.349
Mid	6175	19.93	19.52	18.394	18.161
High	6415	19.78	19.60	18.203	18.332



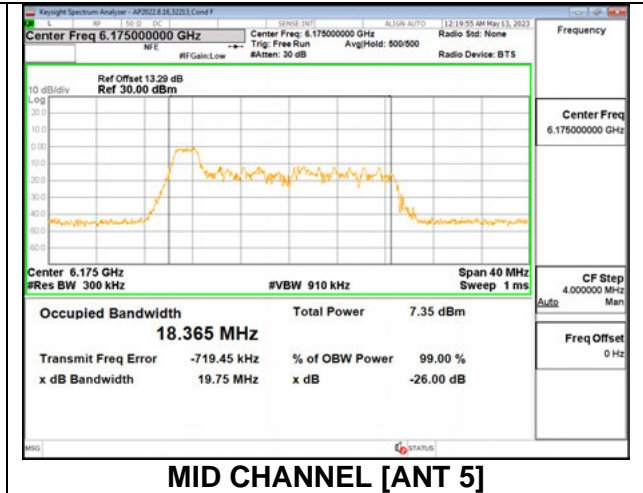
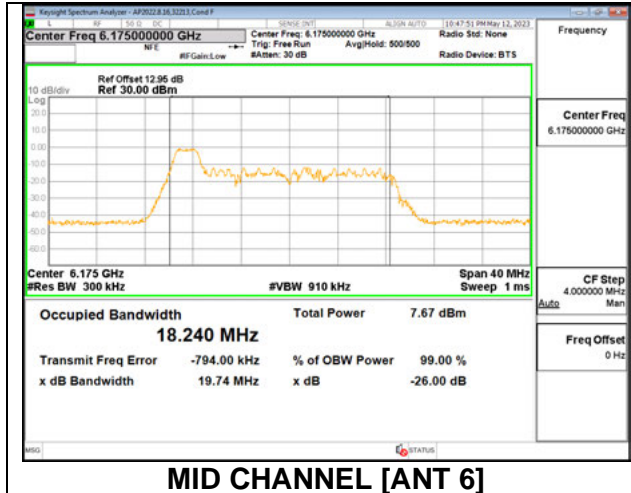
**2TX Antenna 6 + Antenna 5 CDD MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	20.97	21.17	18.991	18.945
Mid	6175	21.26	20.95	18.983	18.969
High	6415	21.05	21.01	18.920	18.926



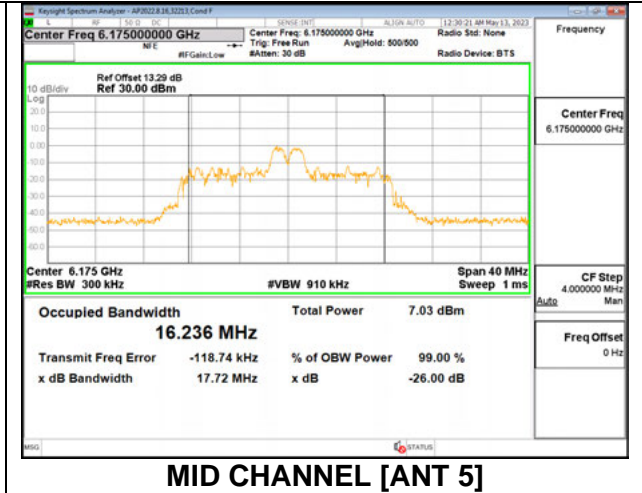
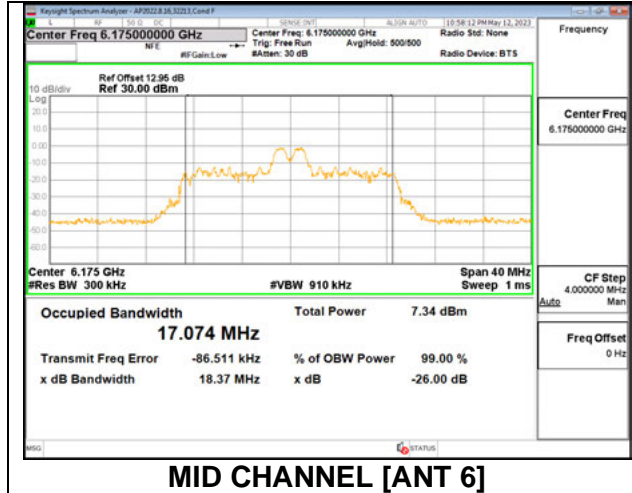
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	19.64	19.73	18.349	18.329
Mid	6175	19.74	19.75	18.240	18.365
High	6415	19.73	19.82	18.352	18.199



**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 4**

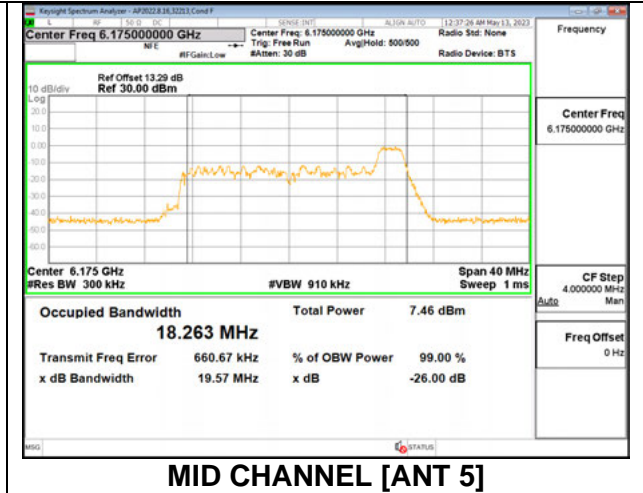
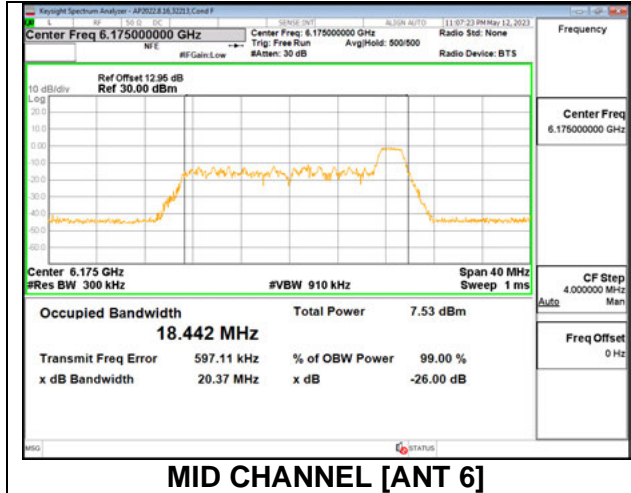
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	18.36	18.18	16.892	16.919
Mid	6175	18.37	17.72	17.074	16.236
High	6415	18.57	18.13	16.904	16.673





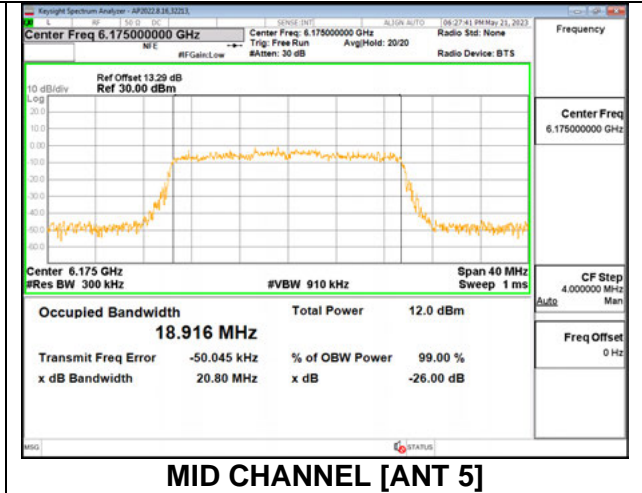
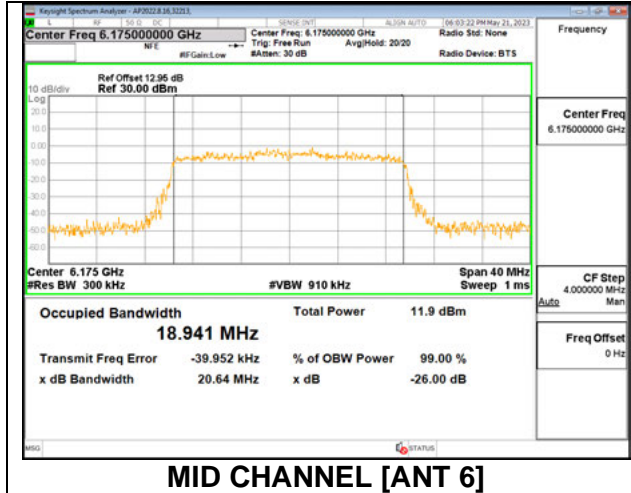
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	20.08	19.55	18.489	18.306
Mid	6175	20.37	19.57	18.442	18.263
High	6415	20.13	19.57	18.442	18.341



**2TX Antenna 6 + Antenna 5 SDM MODE: SU Mode**

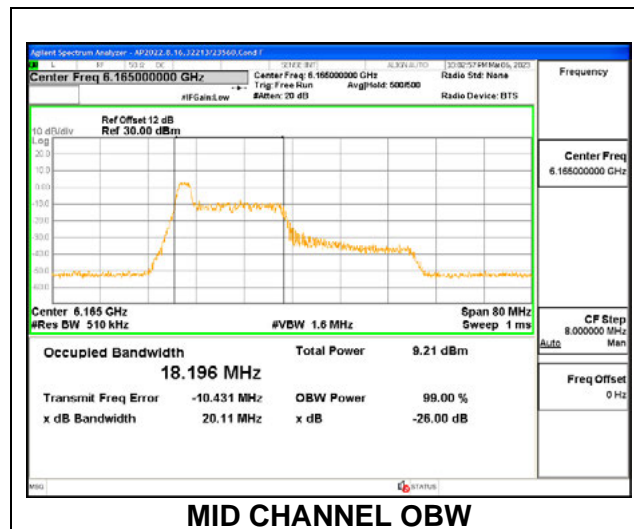
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5955	20.62	20.94	18.920	18.935
Mid	6175	20.64	20.80	18.941	18.916
High	6415	20.16	20.72	18.979	18.933



### 9.2.2. 802.11ax HE40 MODE IN THE UNII-5 BAND

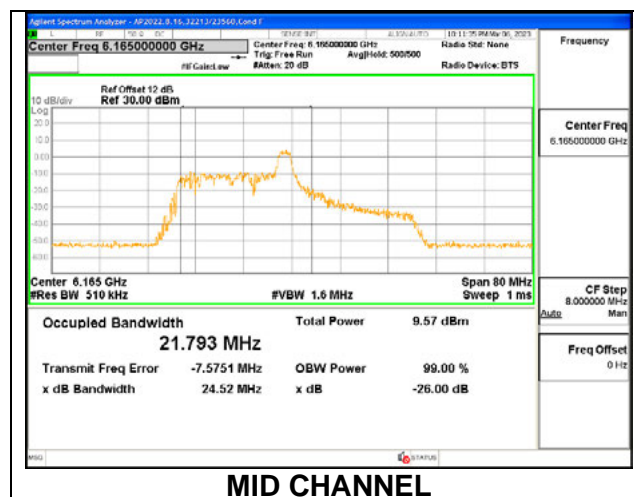
#### 1TX Antenna 6 MODE: 26 Tones, RU Index 0

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	19.79	18.227
Mid	6165	20.11	18.196
High	6405	19.84	18.491



#### 1TX Antenna 6 MODE: 26 Tones, RU Index 8

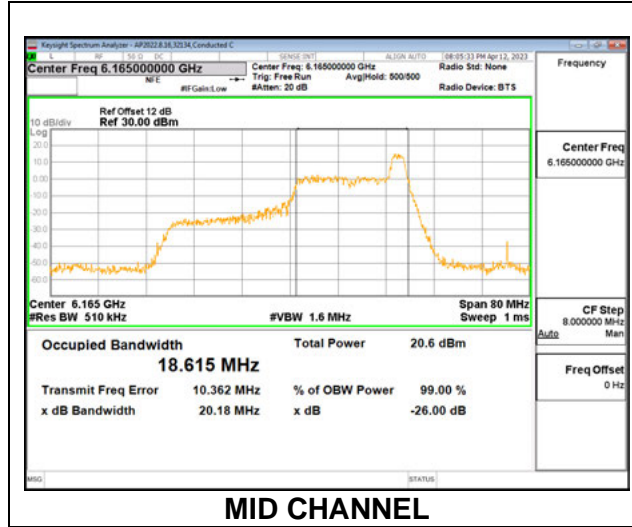
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	23.64	21.324
Mid	6165	24.52	21.793
High	6405	23.07	21.010





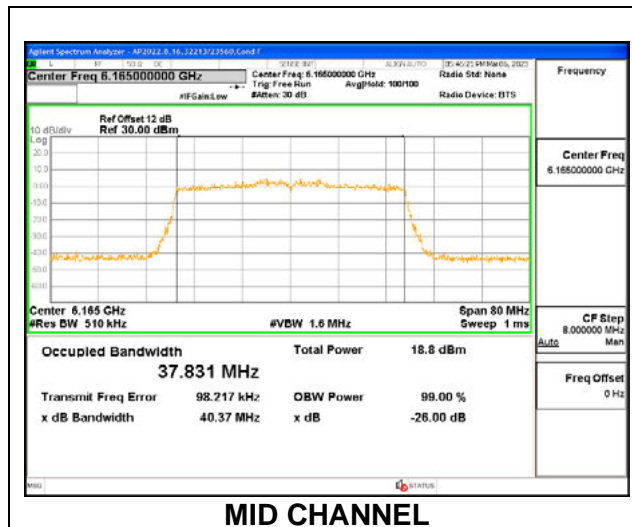
**1TX Antenna 6 MODE: 26 Tones, RU Index 17**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	19.92	17.873
Mid	6165	20.18	18.615
High	6405	20.04	18.368



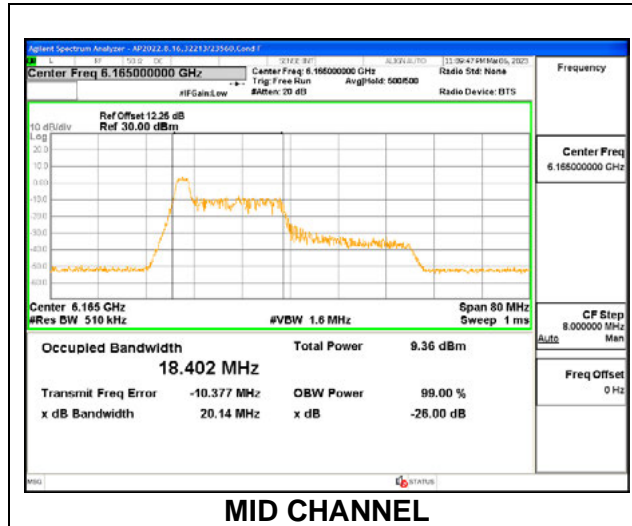
**1TX Antenna 6 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	41.05	37.833
Mid	6165	40.37	37.831
High	6405	40.73	37.766



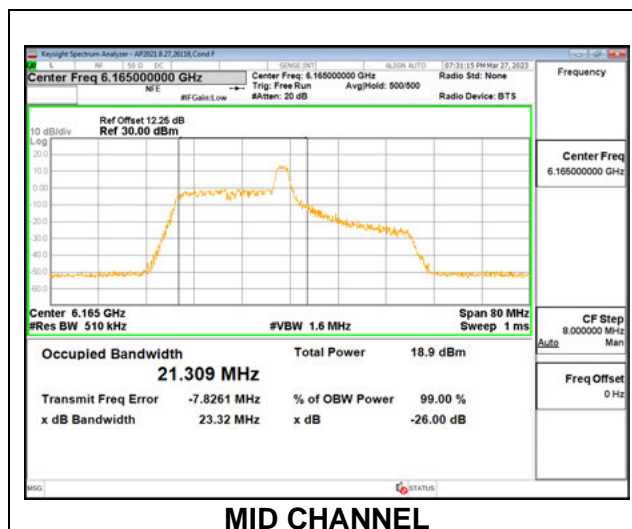
**1TX Antenna 5 MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	20.16	18.368
Mid	6165	20.14	18.402
High	6405	20.01	18.463



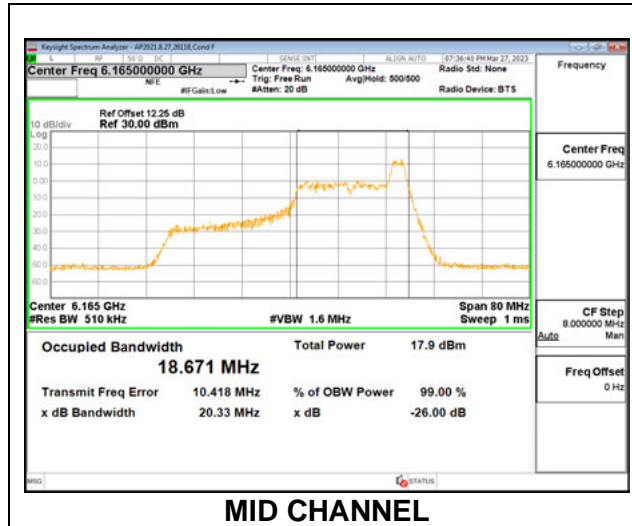
**1TX Antenna 5 MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	23.47	20.606
Mid	6165	23.32	21.309
High	6405	23.57	21.213



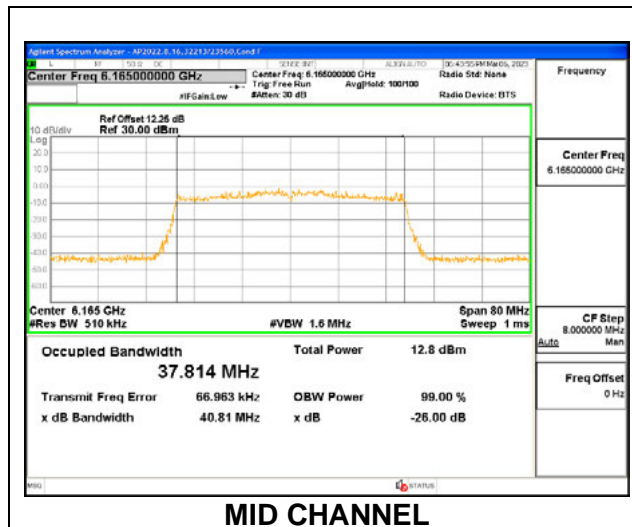
**1TX Antenna 5 MODE: 26 Tones, RU Index 17**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	20.28	18.601
Mid	6165	20.33	18.671
High	6405	20.14	18.489



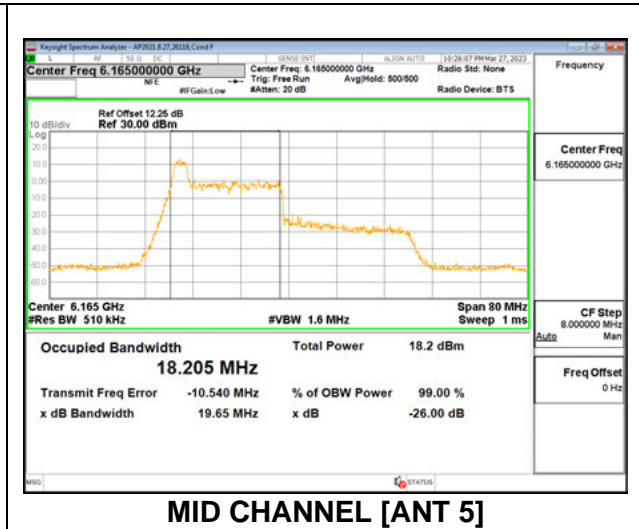
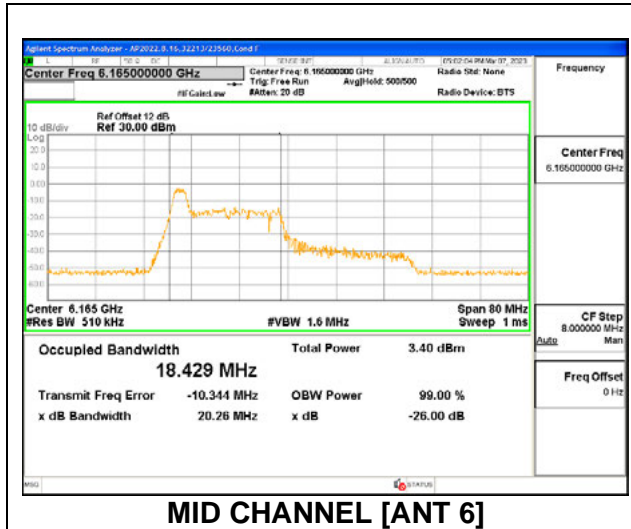
**1TX Antenna 5 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5965	40.98	37.837
Mid	6165	40.81	37.814
High	6405	40.82	37.795



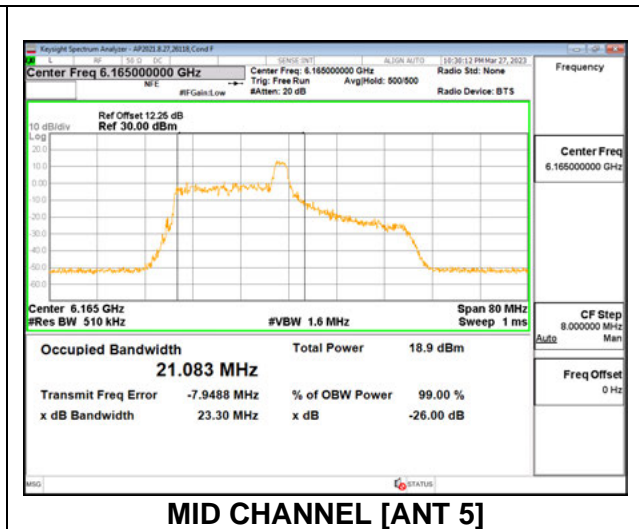
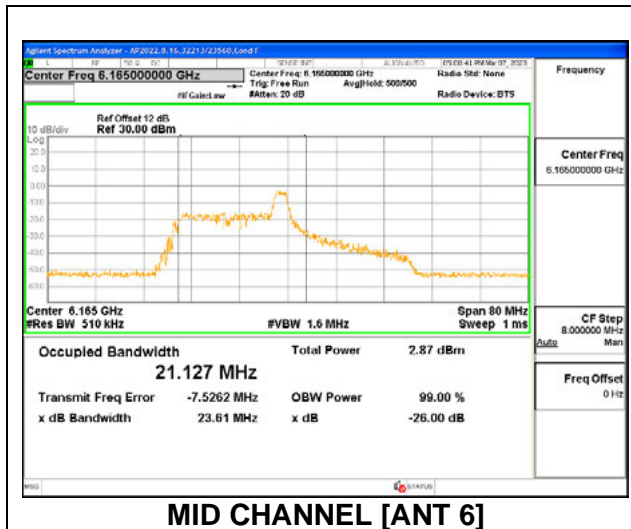
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	19.64	20.01	18.423	18.287
Mid	6165	20.26	19.65	18.429	18.205
High	6405	19.84	19.93	18.476	18.347



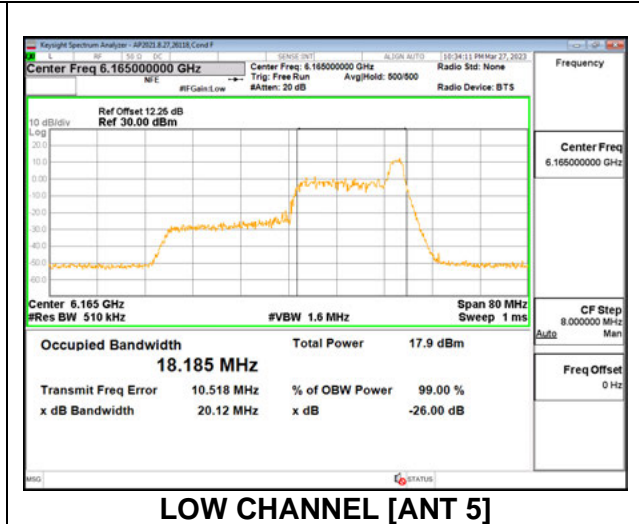
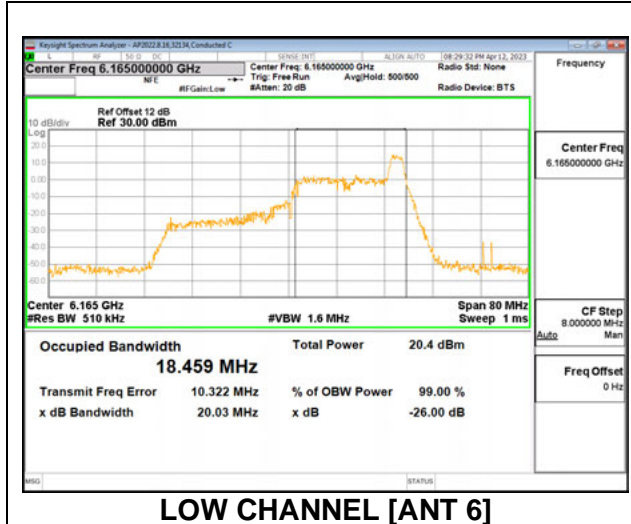
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	22.93	23.17	21.368	21.108
Mid	6165	23.61	23.30	21.127	21.083
High	6405	23.95	20.77	21.588	19.965



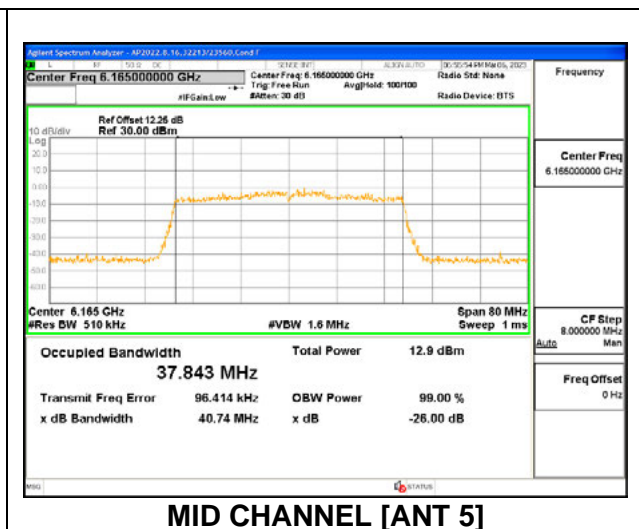
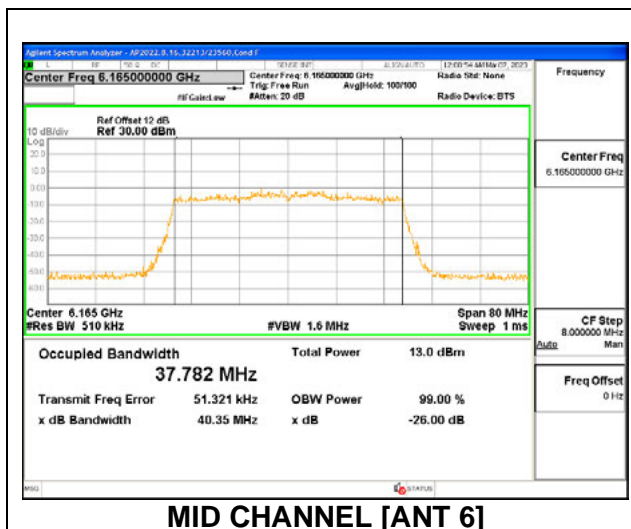
**2TX Antenna 6 + Antenna 5 CDD: 26 Tones, RU Index 17**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	20.69	19.89	18.759	18.277
Mid	6165	20.03	20.12	18.459	18.185
High	6405	20.00	19.88	18.515	17.790



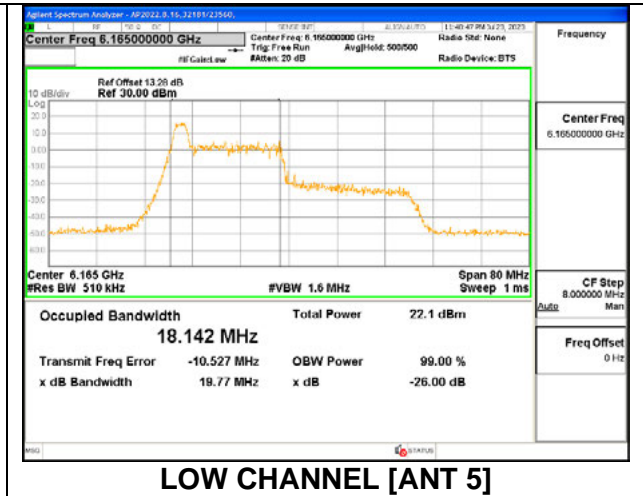
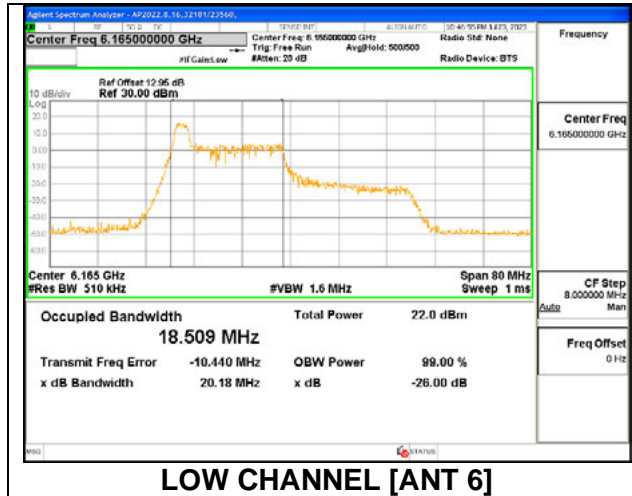
**2TX Antenna 6 + Antenna 5 CDD MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	40.68	40.74	37.778	37.801
Mid	6165	40.35	40.74	37.782	37.843
High	6405	40.95	41.00	37.859	37.823



**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 0**

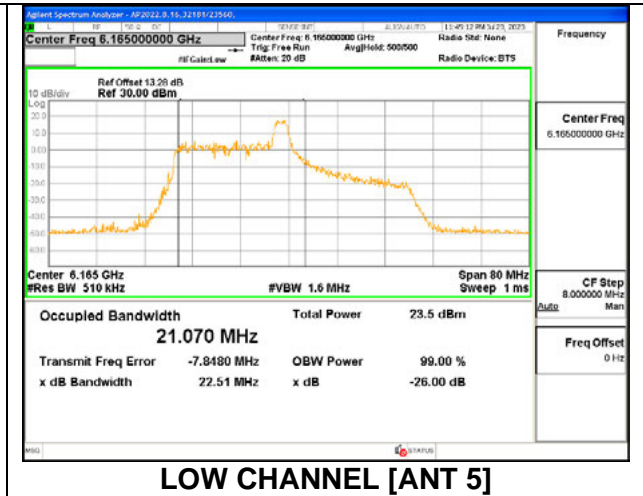
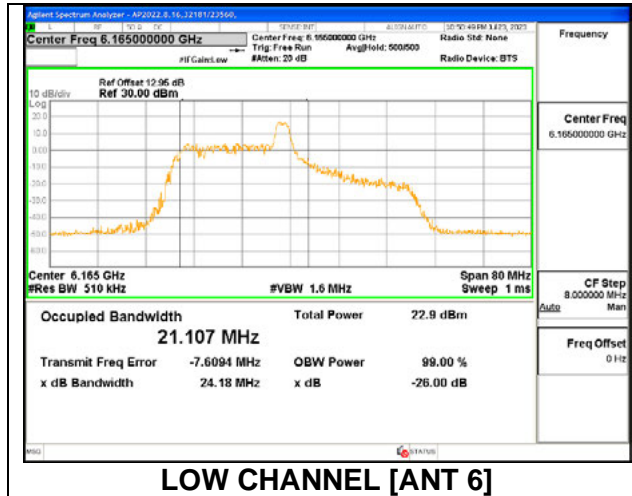
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	20.13	19.86	18.349	18.036
Mid	6165	20.18	19.77	18.509	18.142
High	6405	20.10	19.78	18.321	18.179





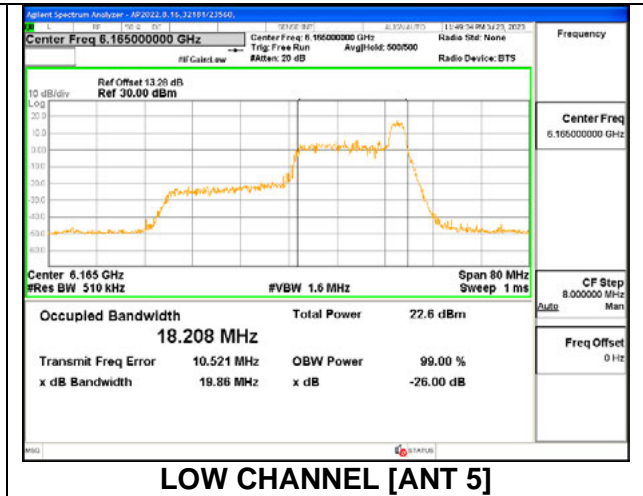
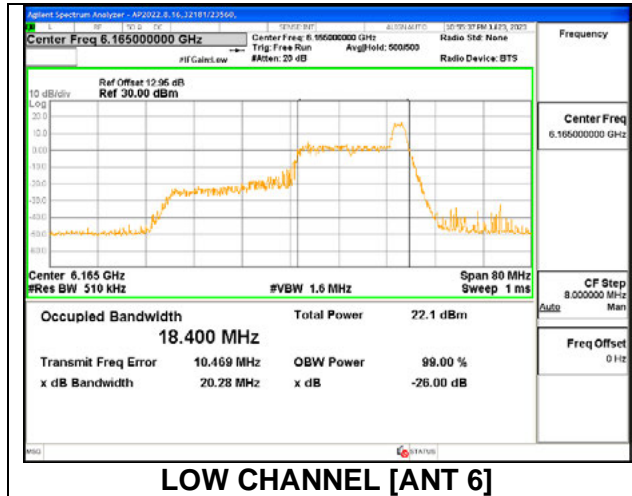
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	24.64	24.20	21.522	20.832
Mid	6165	24.18	22.51	21.107	21.070
High	6405	24.22	23.08	21.511	21.314



**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 17**

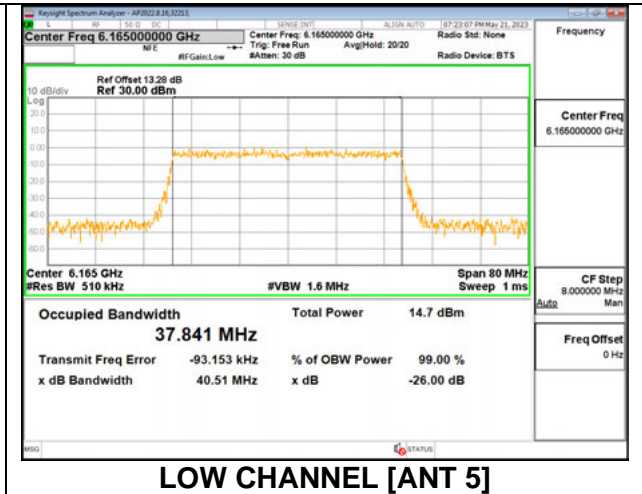
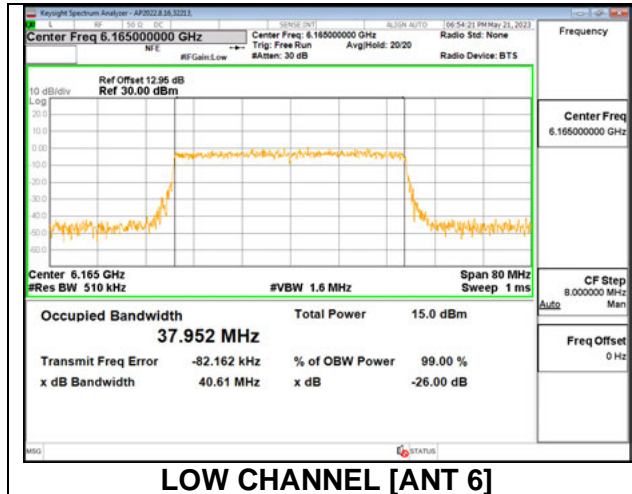
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	20.60	19.69	18.671	18.264
Mid	6165	20.28	19.86	18.400	18.208
High	6405	20.47	19.74	18.478	18.353





**2TX Antenna 6 + Antenna 5 SDM MODE: SU Mode**

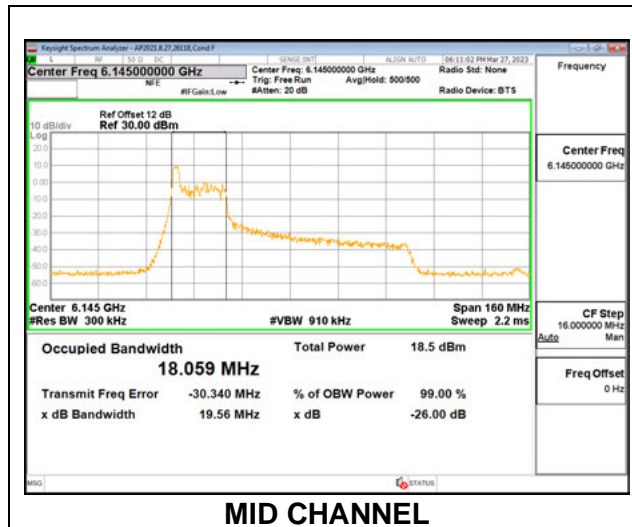
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5965	41.32	40.85	37.881	37.984
Mid	6165	40.61	40.51	37.952	37.841
High	6405	40.57	40.18	37.949	37.920



### 9.2.3. 802.11ax HE80 MODE IN THE UNII-5 BAND

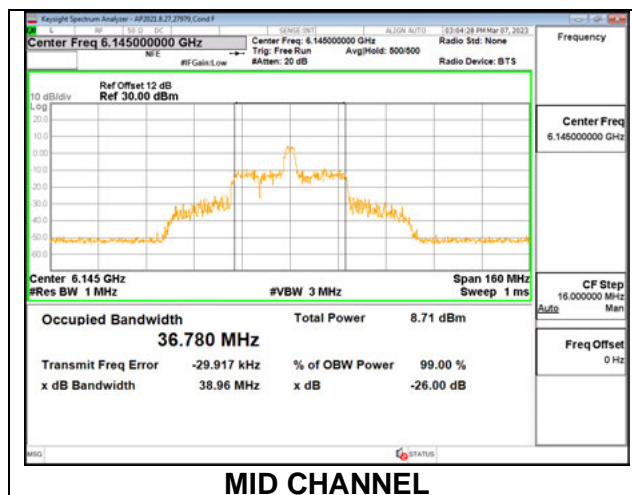
#### 1TX Antenna 6 MODE: 26 Tones, RU Index 0

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	19.30	17.892
Mid	6145	19.56	18.059
High	6385	18.99	17.697



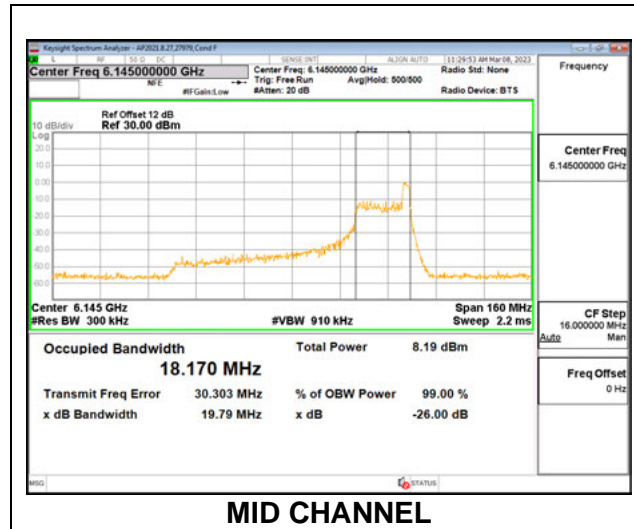
#### 1TX Antenna 6 MODE: 26 Tones, RU Index 18

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	39.89	36.851
Mid	6145	38.96	36.780
High	6385	39.99	36.766



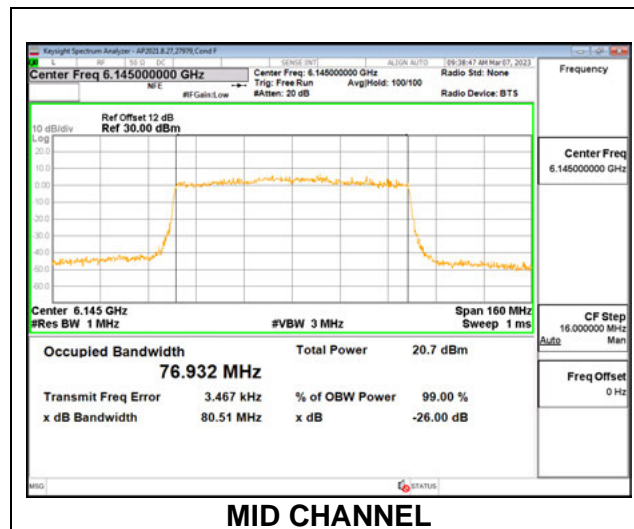
**1TX Antenna 6 MODE: 26 Tones, RU Index 36**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	19.26	18.117
Mid	6145	19.79	18.170
High	6385	19.79	18.084



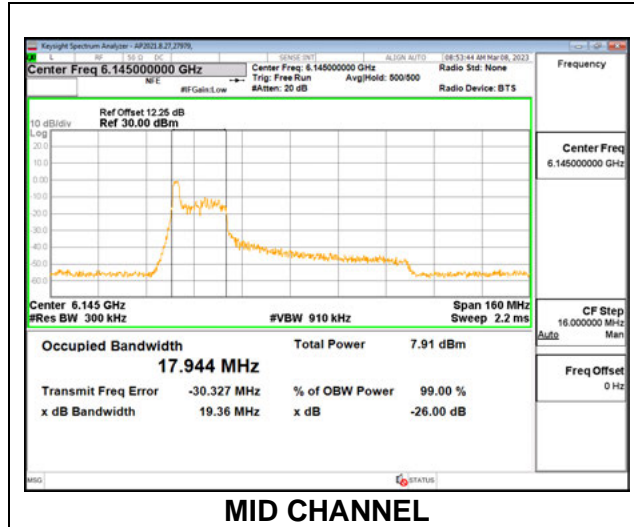
**1TX Antenna 6 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	81.22	77.005
Mid	6145	80.51	76.932
High	6385	80.74	77.000



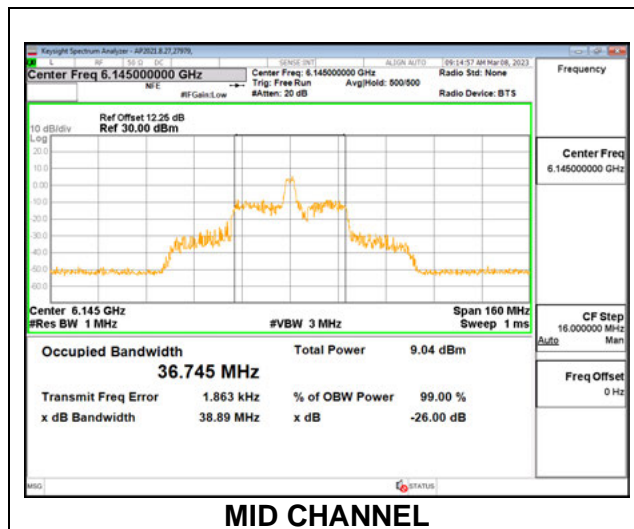
**1TX Antenna 5 MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	18.71	17.359
Mid	6145	19.36	17.944
High	6385	19.48	18.020



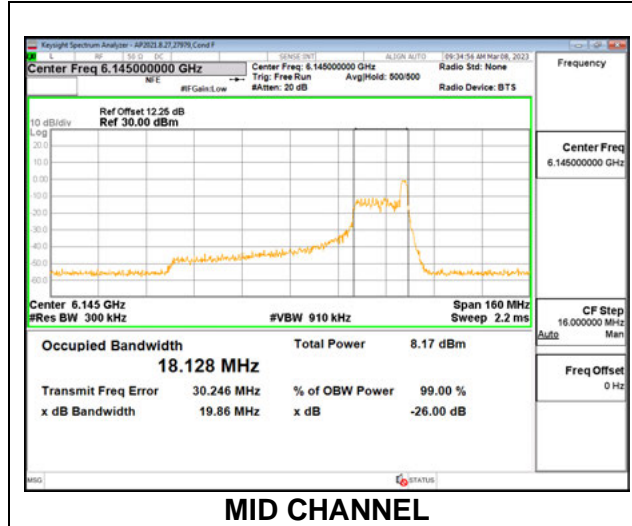
**1TX Antenna 5 MODE: 26 Tones, RU Index 18**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	38.53	36.674
Mid	6145	38.89	36.745
High	6385	39.62	36.774



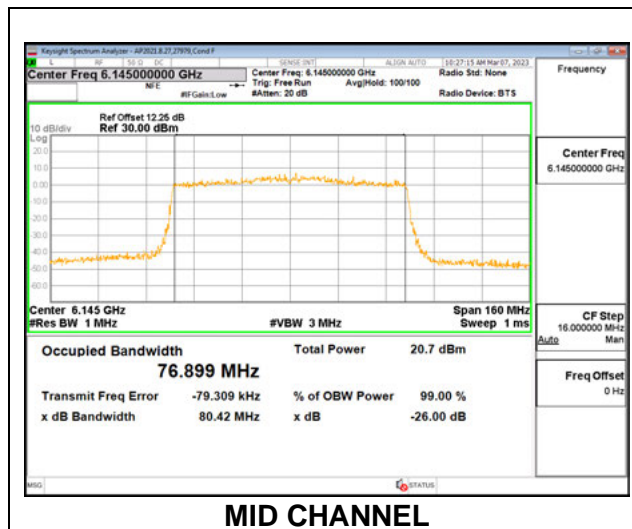
**1TX Antenna 5 MODE: 26 Tones, RU Index 36**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	19.99	18.194
Mid	6145	19.86	18.128
High	6385	19.52	18.131



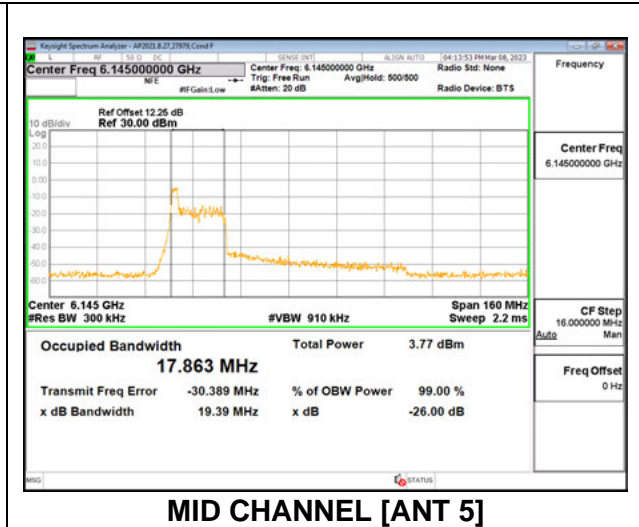
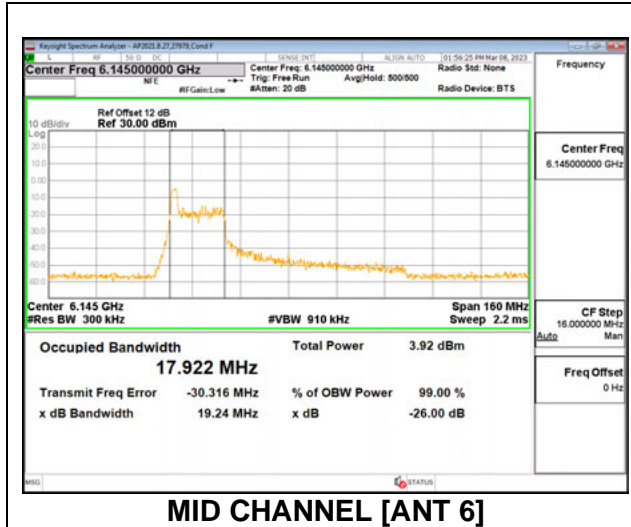
**1TX Antenna 5 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	5985	80.64	76.855
Mid	6145	80.42	76.899
High	6385	80.82	76.893



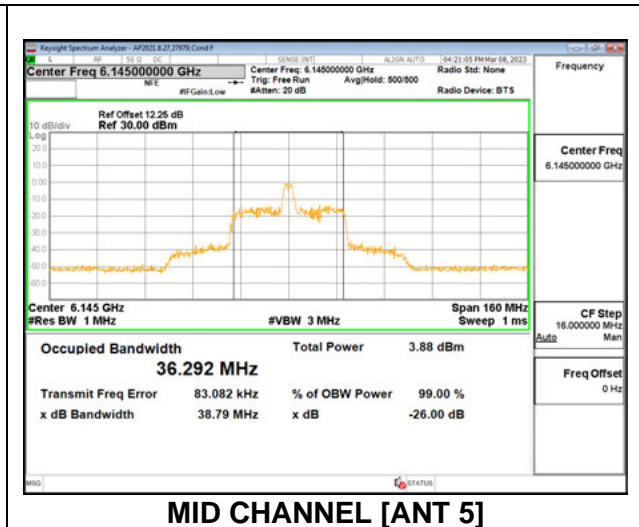
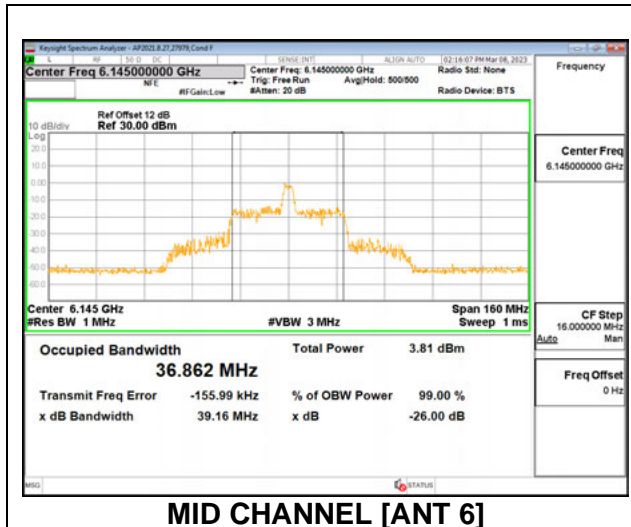
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	19.66	19.36	18.038	17.901
Mid	6145	19.24	19.39	17.922	17.863
High	6385	19.37	19.33	18.059	17.779



**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 18**

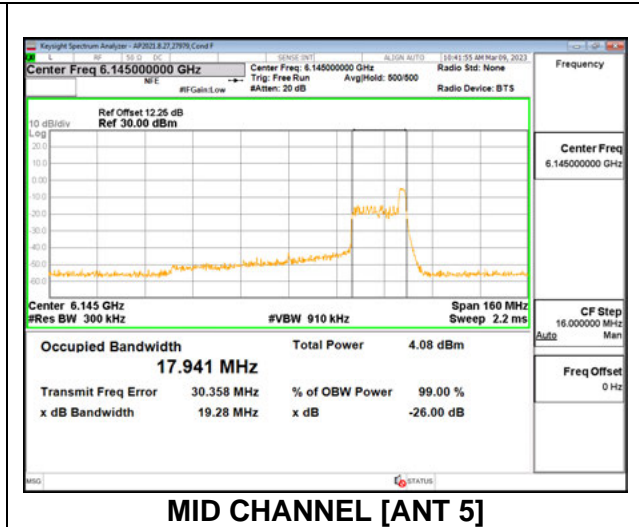
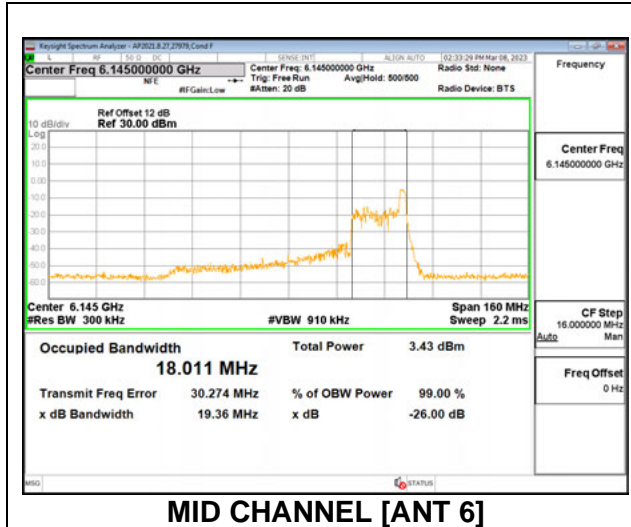
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	38.99	37.40	36.967	35.376
Mid	6145	39.16	38.79	36.862	36.292
High	6385	39.31	38.54	36.256	36.208





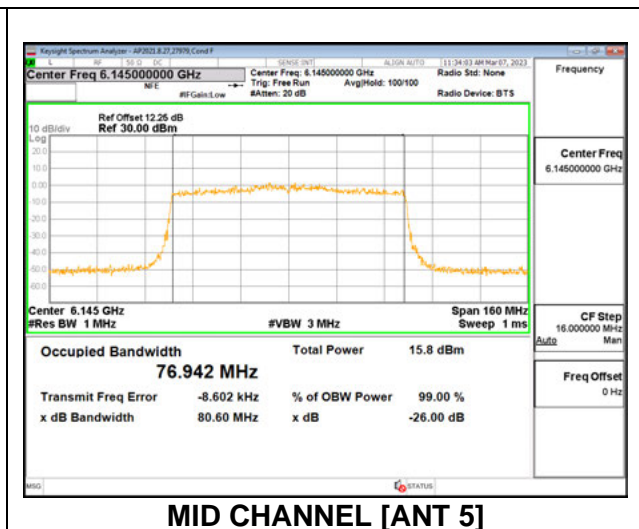
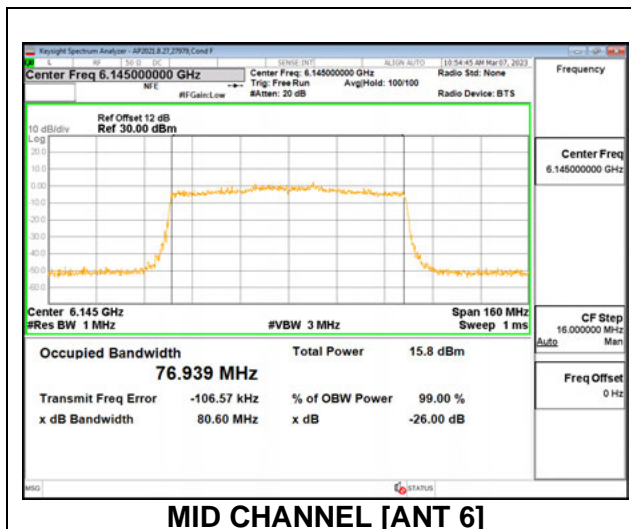
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 36**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	19.15	19.13	18.065	17.959
Mid	6145	19.36	19.28	18.011	17.941
High	6385	19.88	19.37	18.190	17.978



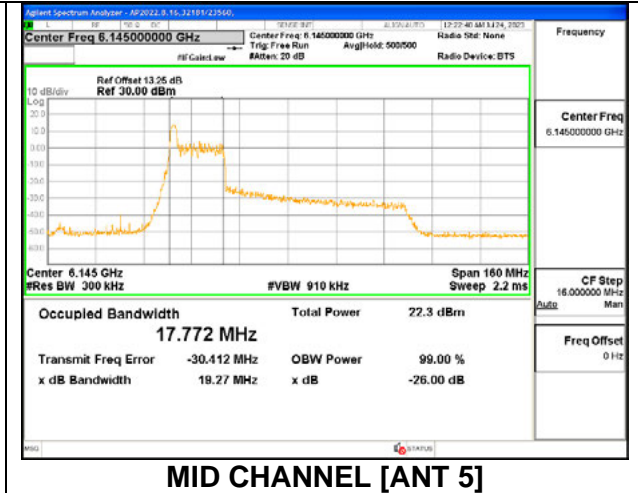
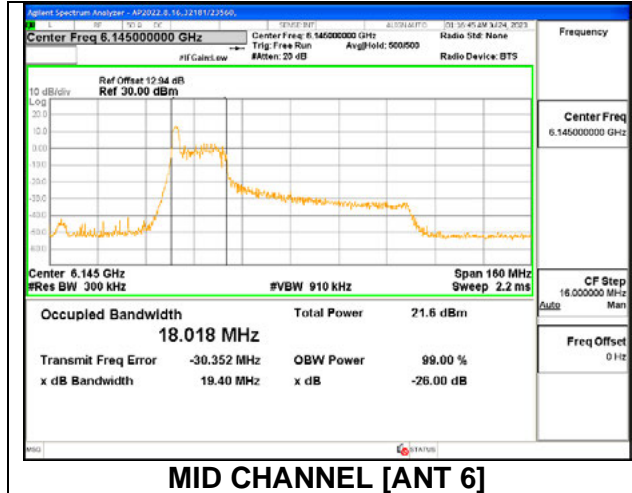
**2TX Antenna 6 + Antenna 5 CDD MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	80.95	80.66	76.860	76.904
Mid	6145	80.60	80.60	76.939	76.942
High	6385	80.47	80.20	76.884	77.100



**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 0**

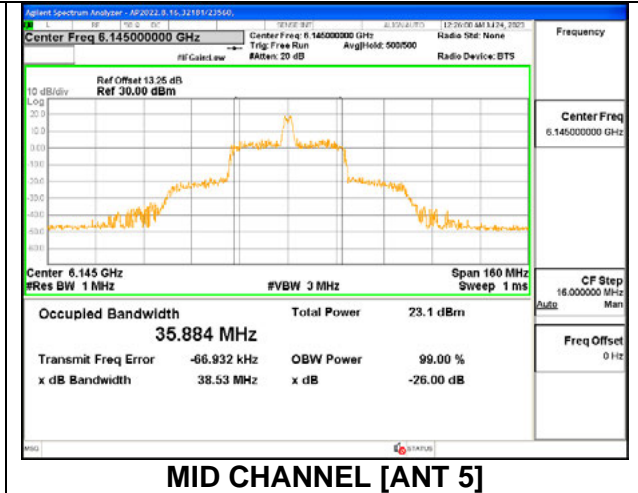
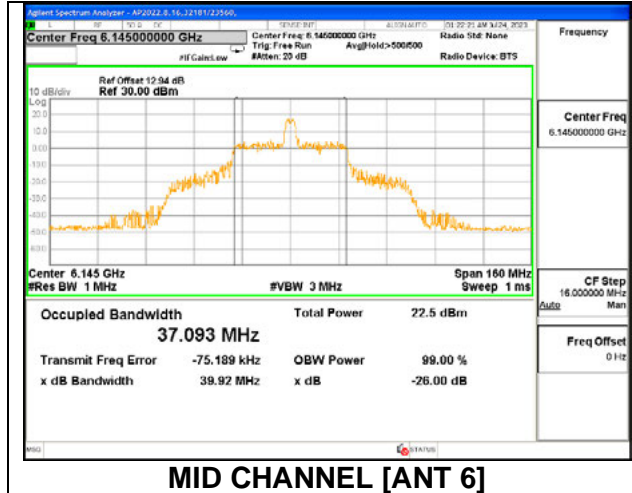
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	19.32	19.14	17.897	17.895
Mid	6145	19.40	19.27	18.018	17.772
High	6385	19.52	19.54	17.970	17.910





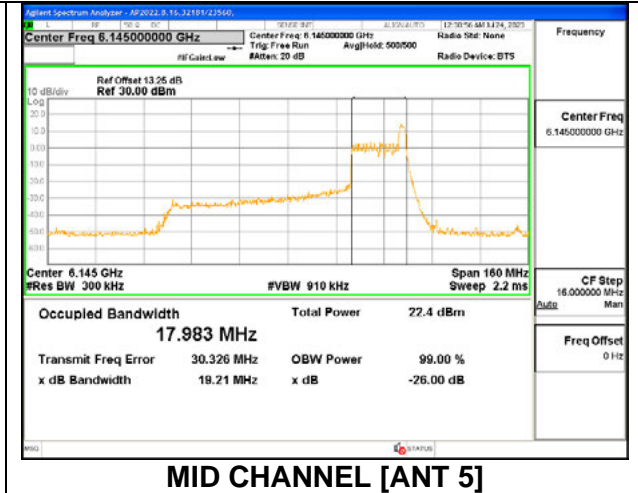
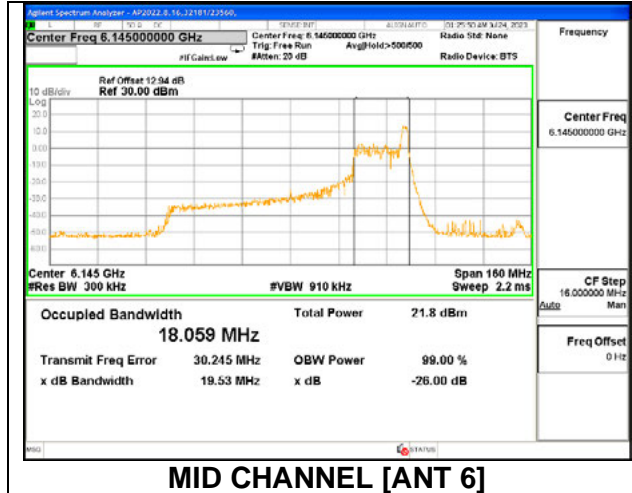
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 18**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	39.39	38.70	36.812	36.388
Mid	6145	39.92	38.53	37.093	35.884
High	6385	38.79	38.61	36.776	36.221



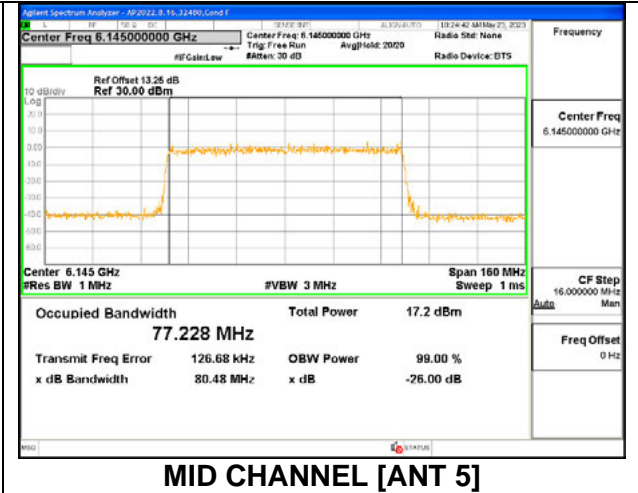
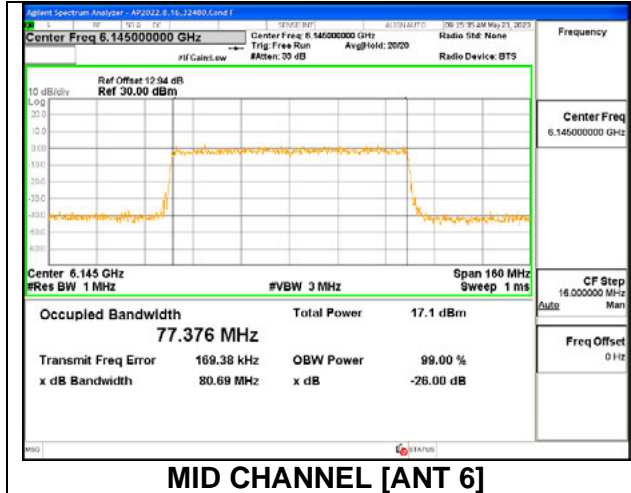
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 36**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	19.70	18.71	18.233	17.300
Mid	6145	19.53	19.21	18.059	17.983
High	6385	19.57	19.22	18.039	17.891



**2TX Antenna 6 + Antenna 5 SDM MODE: SU Mode**

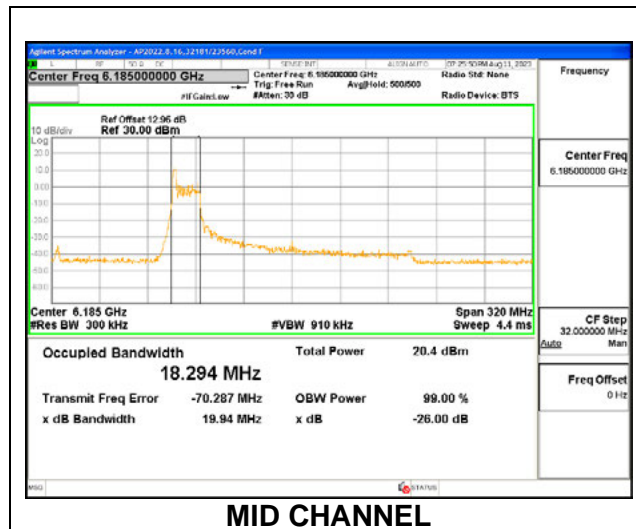
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	5985	80.68	80.34	77.329	77.150
Mid	6145	80.69	80.48	77.376	77.228
High	6385	80.80	80.91	77.285	77.298



### 9.2.4. 802.11ax HE160 MODE IN THE UNII-5 BAND

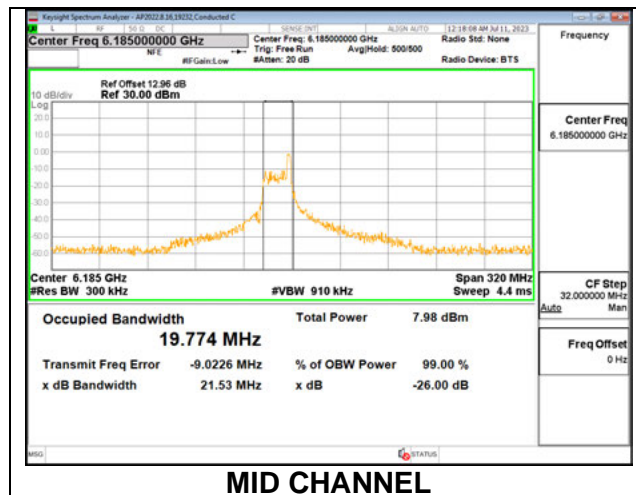
#### 1TX Antenna 6 MODE: 26 Tones, RU Index 0

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	20.08	18.194
Mid	6185	19.94	18.294
High	6345	22.44	20.489



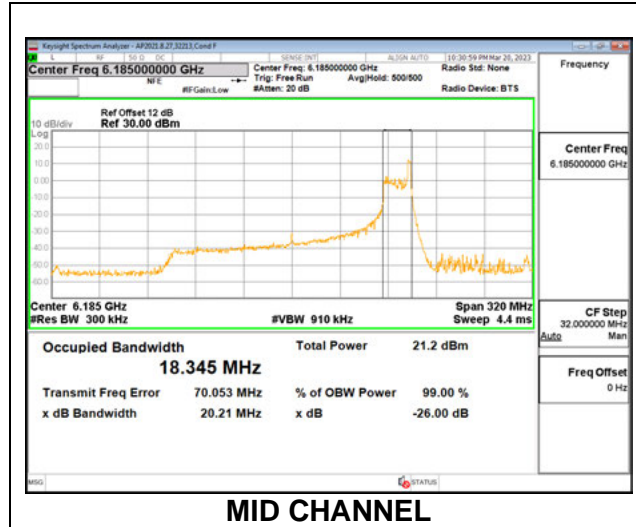
#### 1TX Antenna 6 MODE: 26 Tones, RU Index 36

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	20.76	19.224
Mid	6185	21.53	19.774
High	6345	20.80	19.019



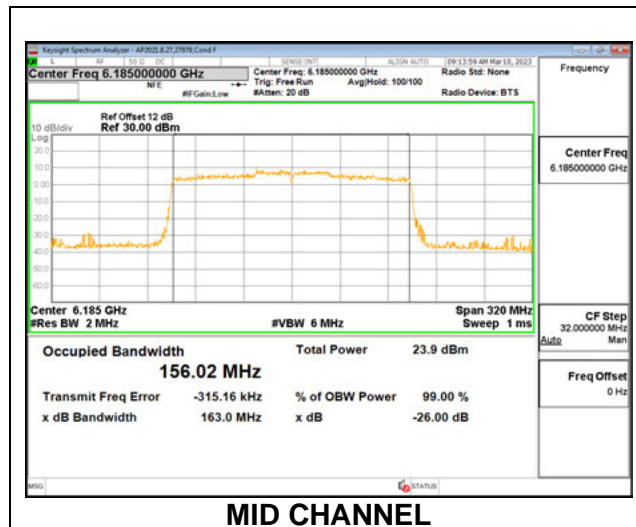
**1TX Antenna 6 MODE: 26 Tones, RU Index S36**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	20.65	18.485
Mid	6185	20.21	18.345
High	6345	20.51	18.631



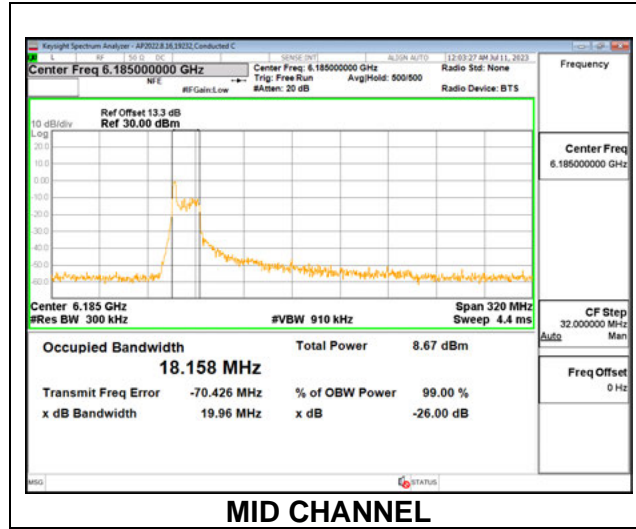
**1TX Antenna 6 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	162.9	155.99
Mid	6185	163.0	156.02
High	6345	163.3	155.70



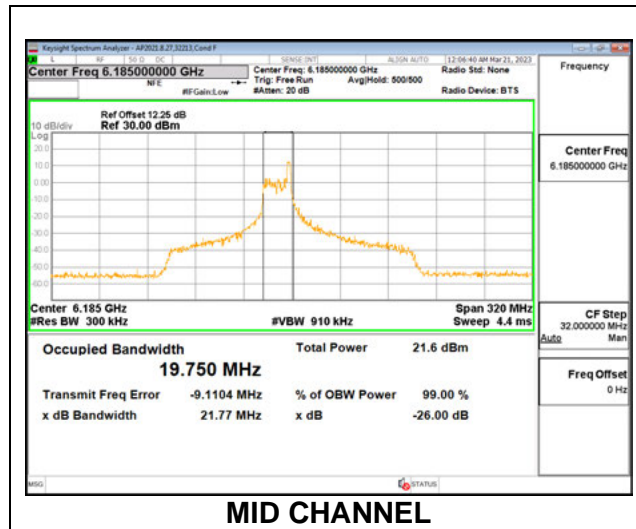
**1TX Antenna 5 MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	19.93	18.102
Mid	6185	19.96	18.158
High	6345	20.23	18.319



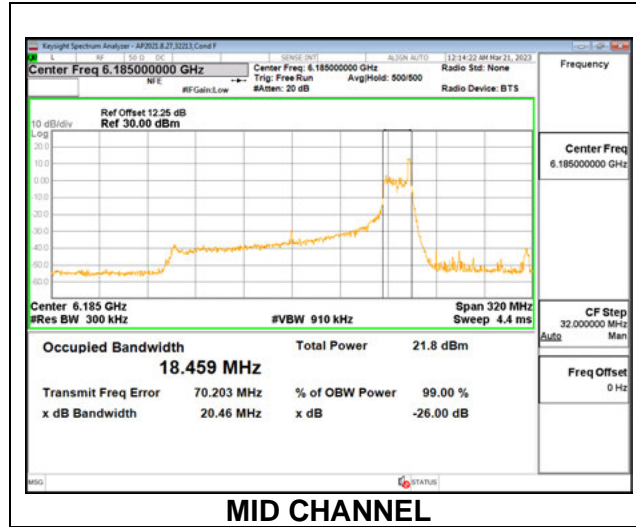
**1TX Antenna 5 MODE: 26 Tones, RU Index 36**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	20.51	19.261
Mid	6185	21.77	19.750
High	6345	20.70	18.930



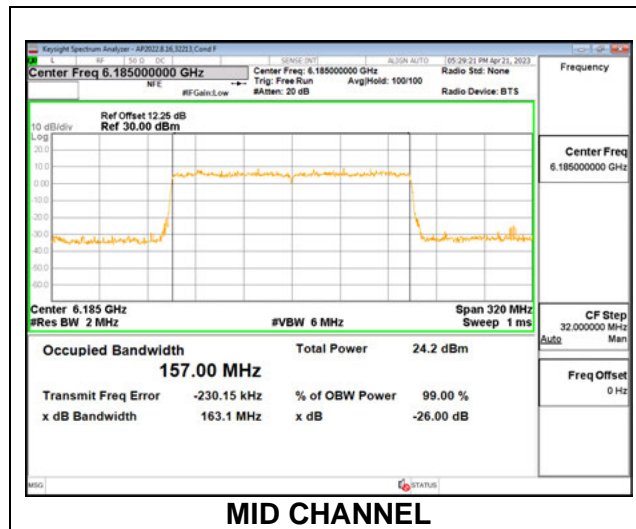
**1TX Antenna 5 MODE: 26 Tones, RU Index S36**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	19.82	18.413
Mid	6185	20.46	18.459
High	6345	20.17	18.532



**1TX Antenna 5 MODE: SU**

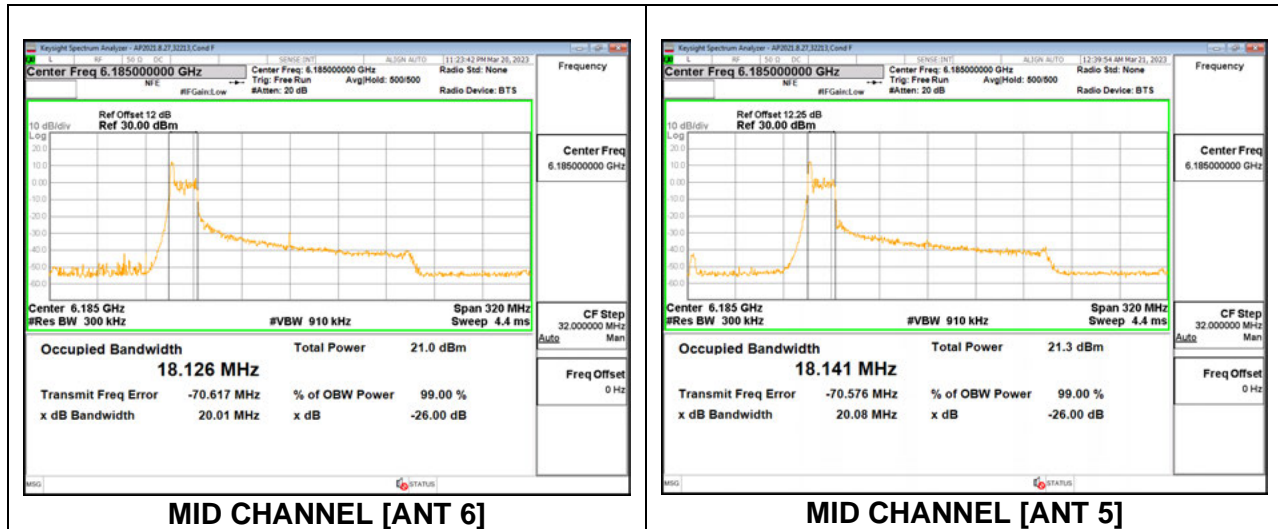
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6025	164.7	156.86
Mid	6185	163.1	157.00
High	6345	164.3	157.05





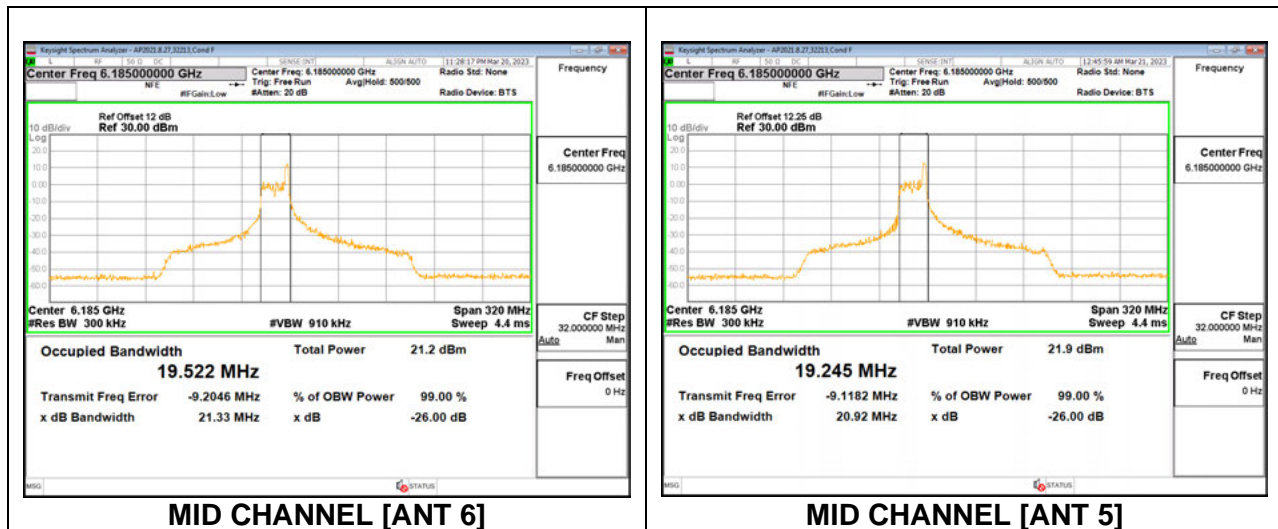
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	19.74	19.67	18.259	18.126
Mid	6185	20.01	20.08	18.126	18.141
High	6345	19.94	20.23	18.152	18.078



**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 36**

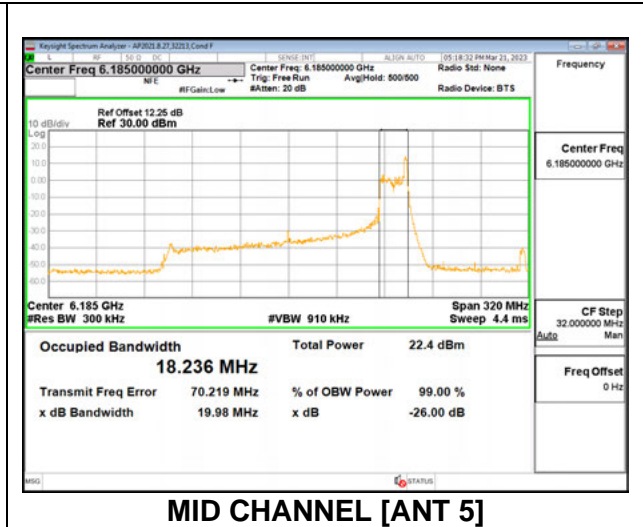
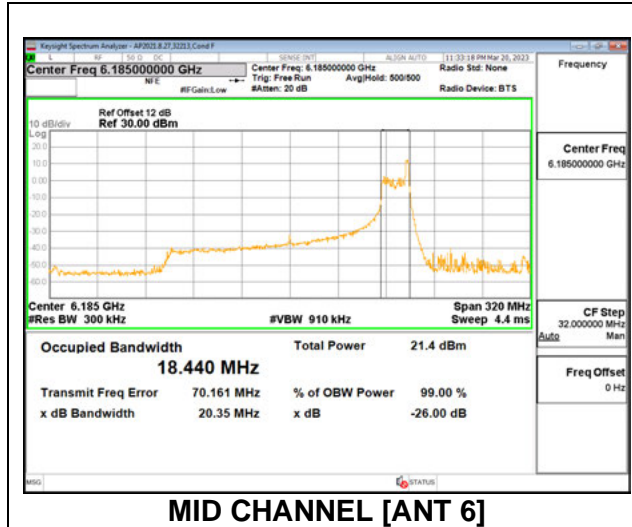
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	21.09	21.31	19.464	19.346
Mid	6185	21.33	20.92	19.522	19.245
High	6345	21.52	21.31	19.899	19.058





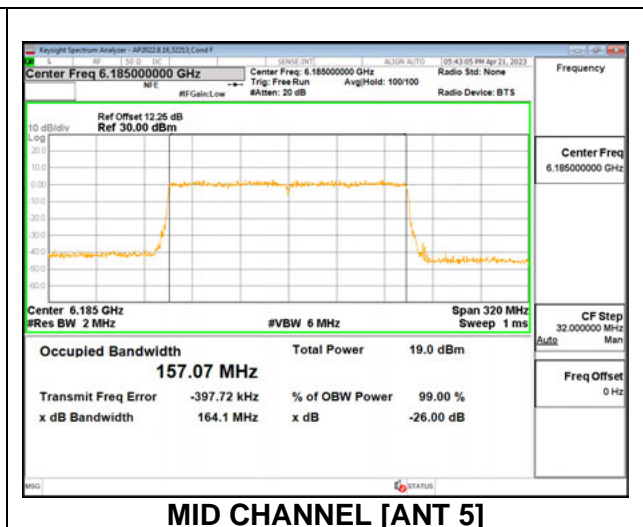
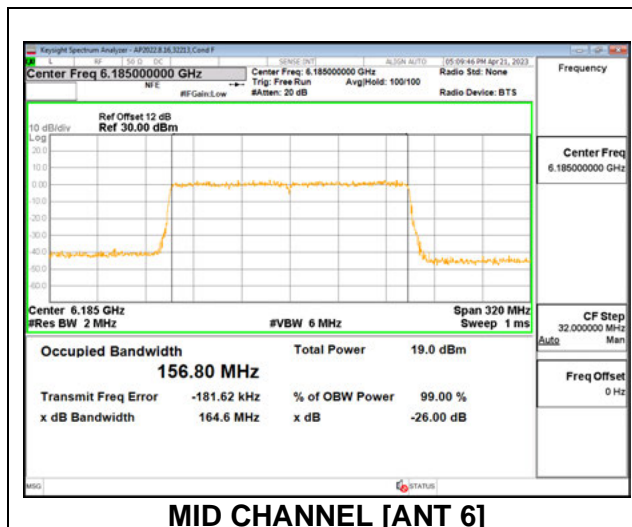
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index S36**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	20.16	20.18	18.443	18.130
Mid	6185	20.35	19.98	18.440	18.236
High	6345	20.26	20.10	18.586	18.189



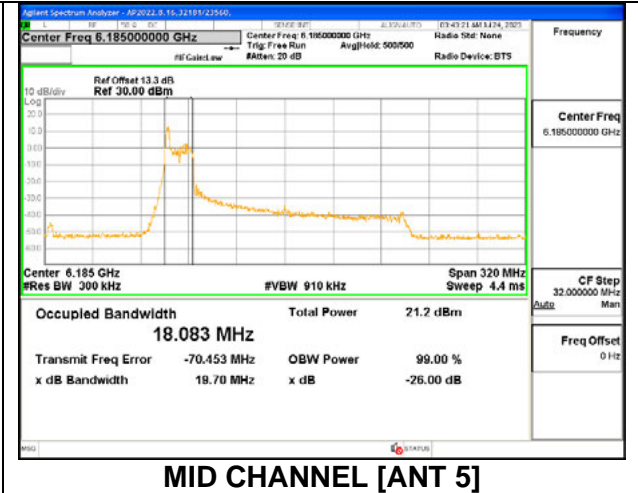
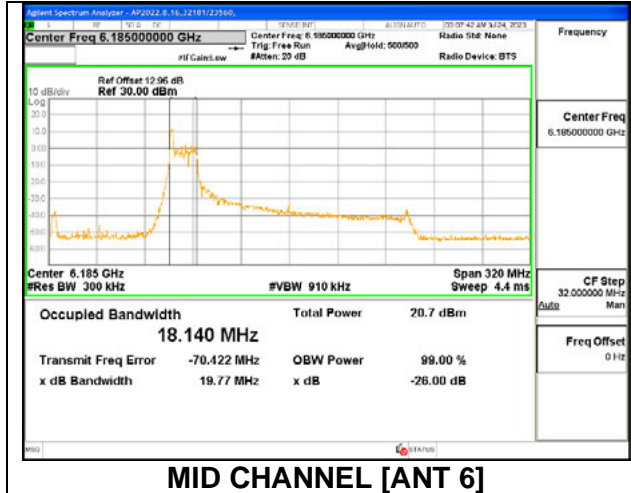
**2TX Antenna 6 + Antenna 5 CDD MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	163.5	163.5	155.97	157.02
Mid	6185	164.6	164.1	156.80	157.07
High	6345	164.1	163.4	156.50	156.49



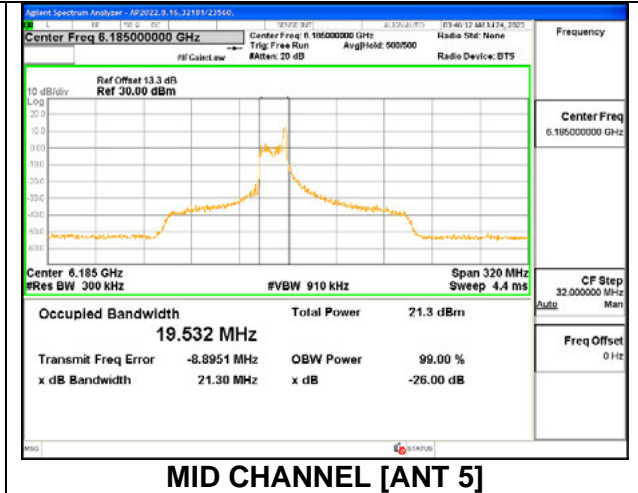
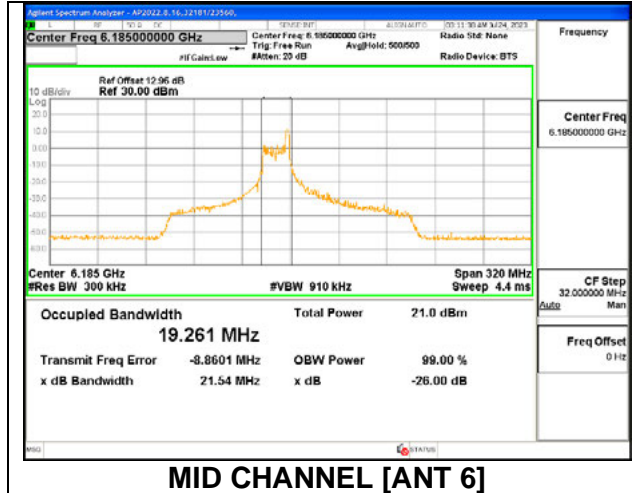
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	19.92	21.95	18.135	20.122
Mid	6185	19.77	19.70	18.140	18.083
High	6345	19.72	19.75	18.140	18.090



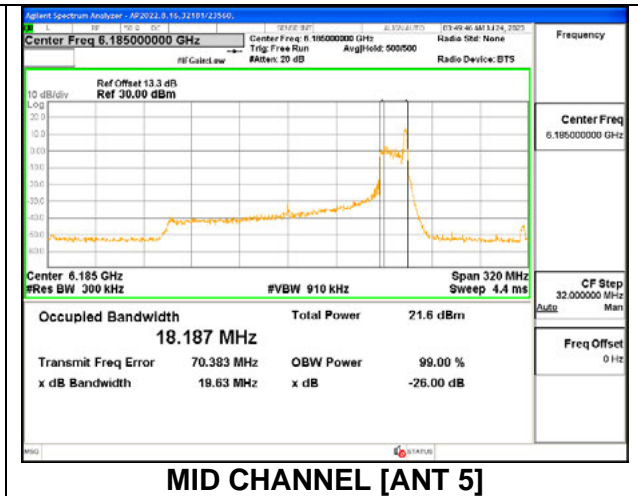
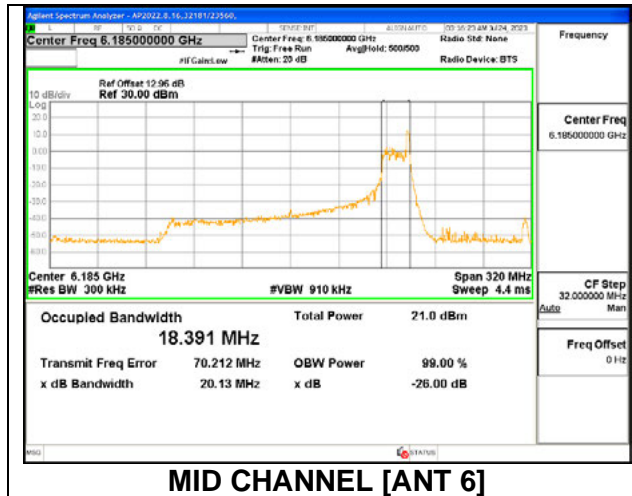
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 36**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	21.64	20.46	19.737	19.141
Mid	6185	21.54	21.30	19.261	19.532
High	6345	21.38	21.49	19.344	19.413



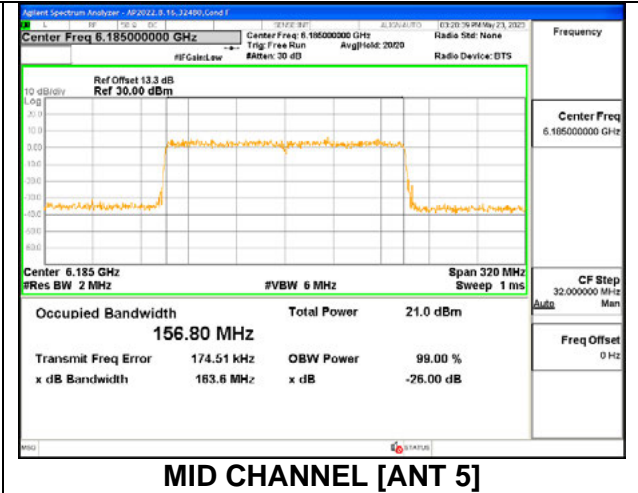
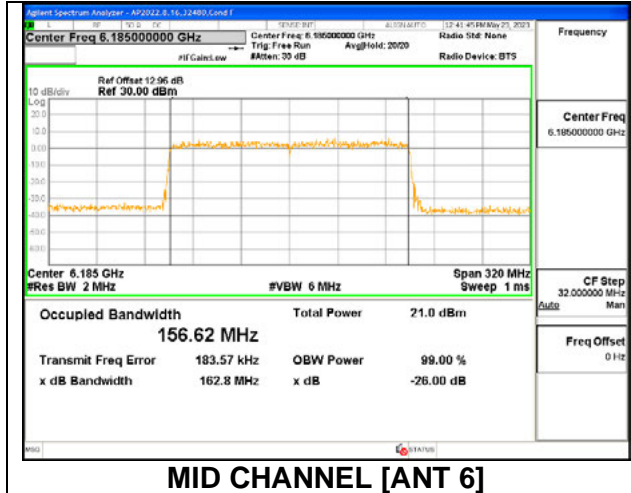
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index S36**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	19.90	19.96	18.302	18.272
Mid	6185	20.13	19.63	18.391	18.187
High	6345	19.96	20.50	18.408	18.302



**2TX Antenna 6 + Antenna 5 SDM MODE: SU Mode**

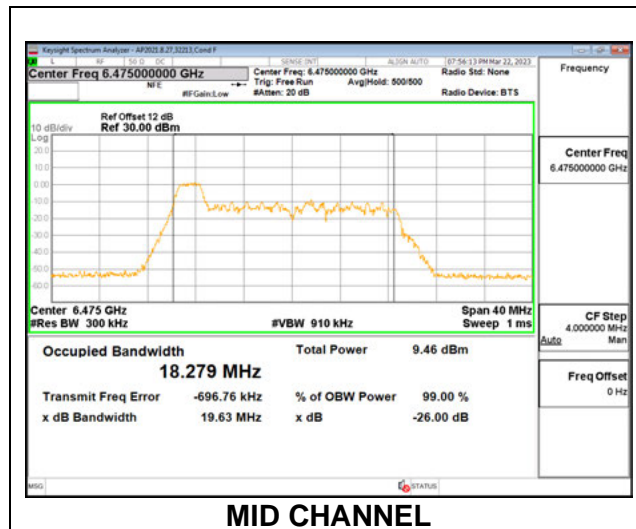
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6025	162.50	163.20	157.140	156.830
Mid	6185	162.80	163.60	156.620	156.800
High	6345	163.40	162.80	156.770	156.470



### 9.2.5. 802.11ax HE20 MODE IN THE UNII-6 BAND

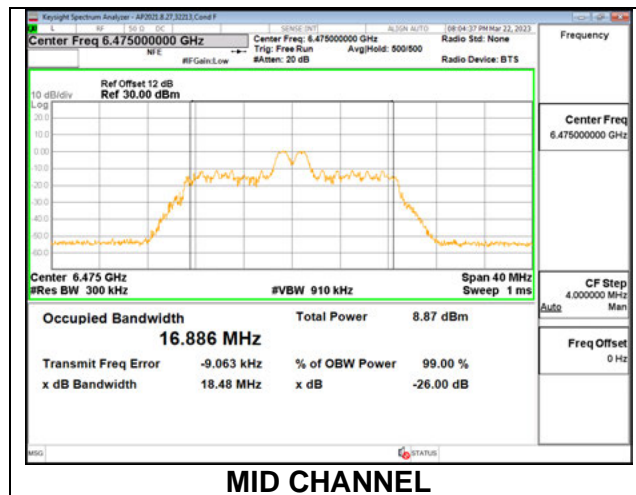
#### 1TX Antenna 6 MODE: 26 Tones, RU Index 0

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	19.69	18.311
Mid	6475	19.63	18.279
High	6515	19.73	18.325



#### 1TX Antenna 6 MODE: 26 Tones, RU Index 4

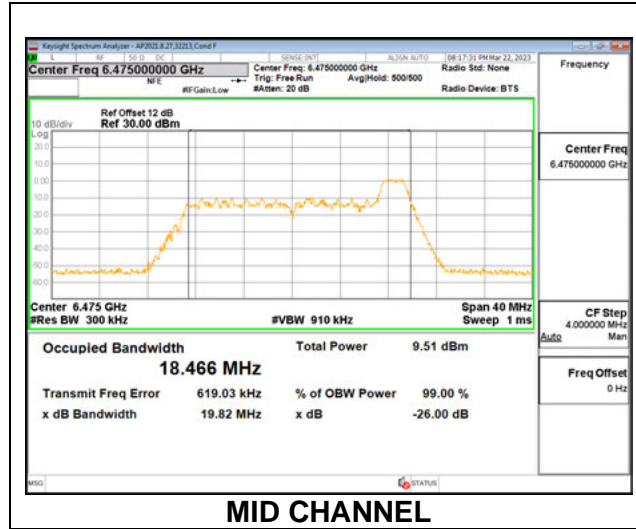
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	18.49	16.792
Mid	6475	18.48	16.886
High	6515	18.47	16.853





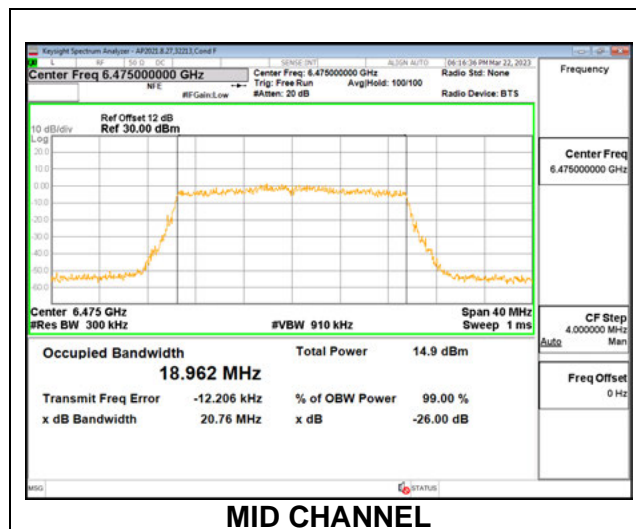
**1TX Antenna 6 MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	19.90	18.383
Mid	6475	19.82	18.466
High	6515	20.02	18.464



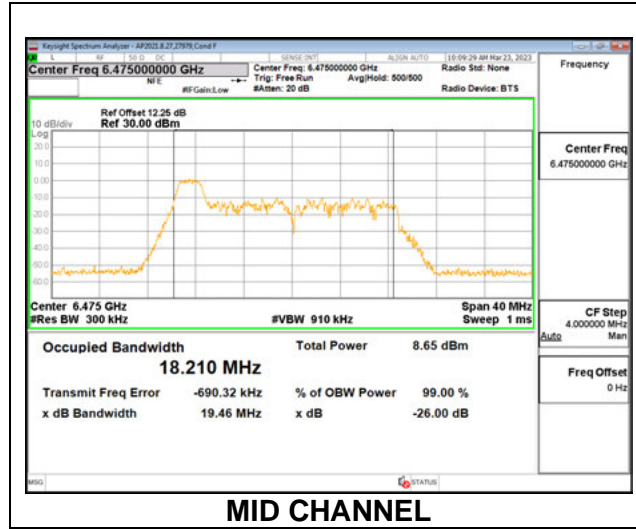
**1TX Antenna 6 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	20.96	19.004
Mid	6475	20.76	18.962
High	6515	20.98	18.951



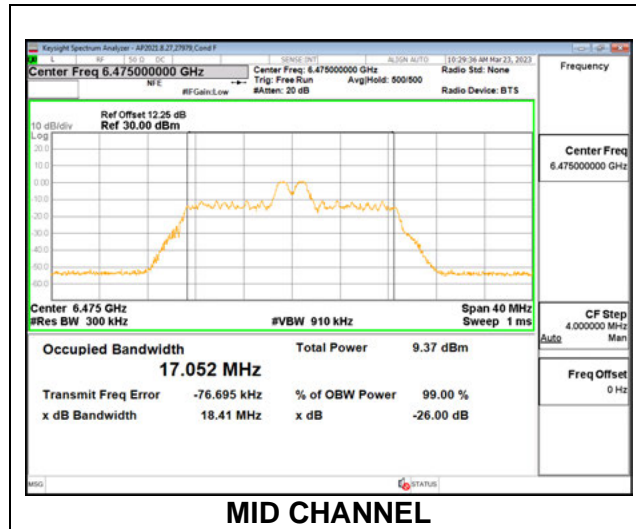
**1TX Antenna 5 MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	19.62	18.317
Mid	6475	19.46	18.210
High	6515	19.82	18.270



**1TX Antenna 5 MODE: 26 Tones, RU Index 4**

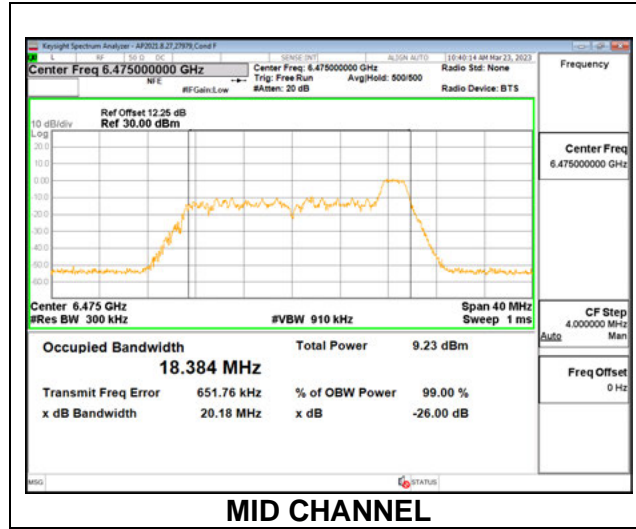
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	18.43	17.002
Mid	6475	18.41	17.052
High	6515	18.23	17.114





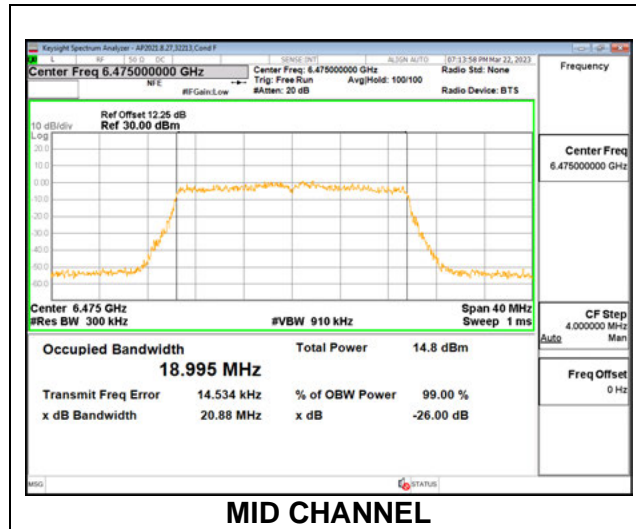
**1TX Antenna 5 MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	19.87	18.482
Mid	6475	20.18	18.384
High	6515	19.69	18.474



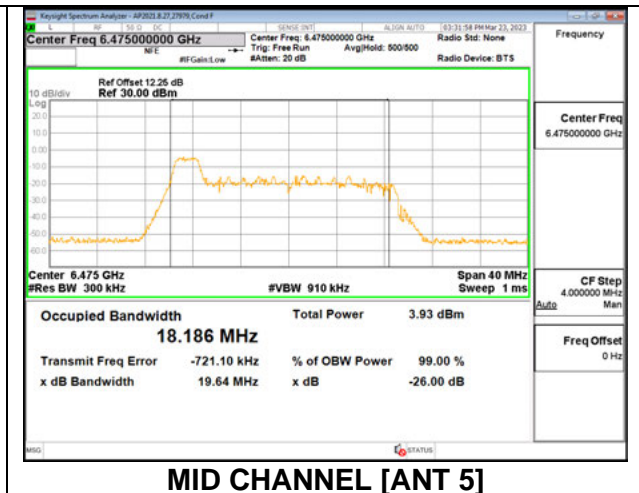
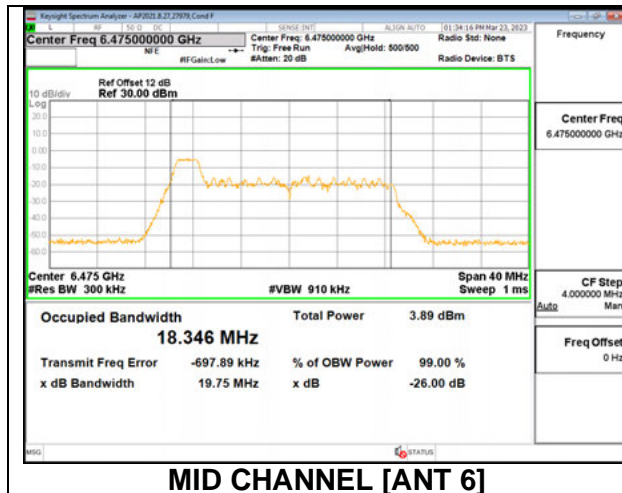
**1TX Antenna 5 MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	6435	20.90	18.931
Mid	6475	20.88	18.995
High	6515	21.17	18.952



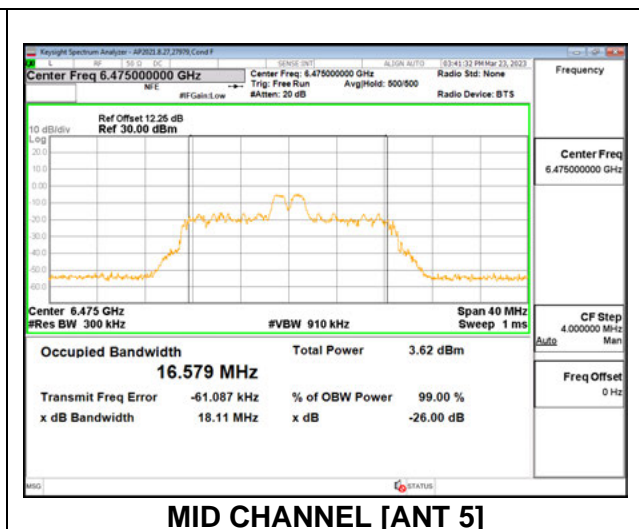
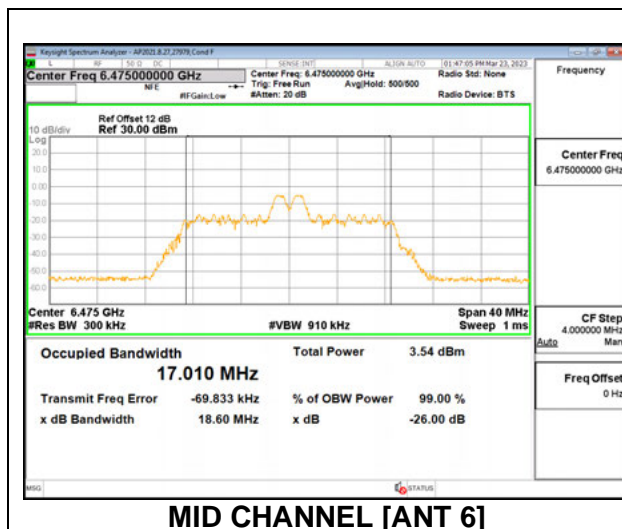
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	19.79	19.81	18.290	18.153
Mid	6475	19.75	19.64	18.346	18.186
High	6515	19.83	19.68	18.245	18.228



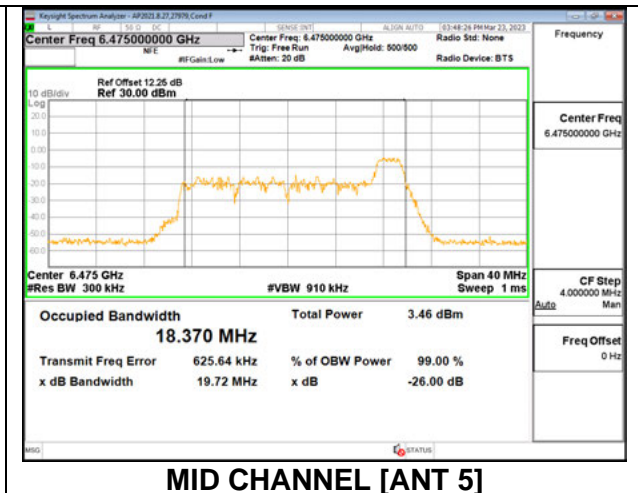
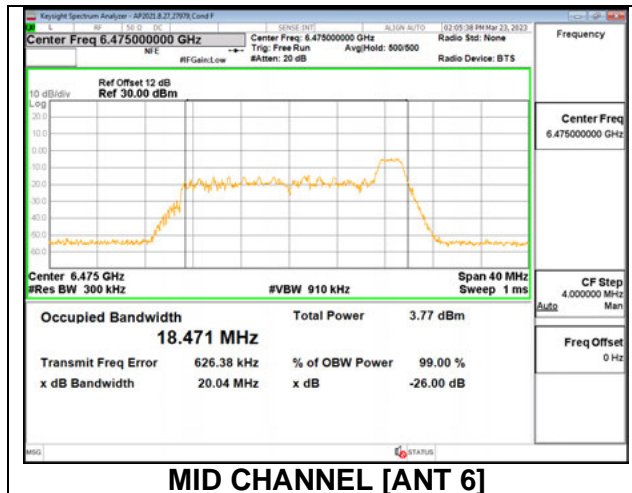
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 4**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	18.60	18.19	17.059	16.723
Mid	6475	18.60	18.11	17.010	16.579
High	6515	18.34	18.00	16.582	16.731



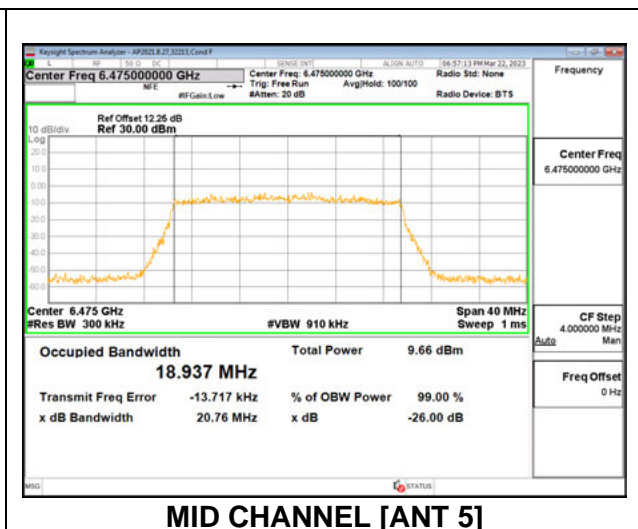
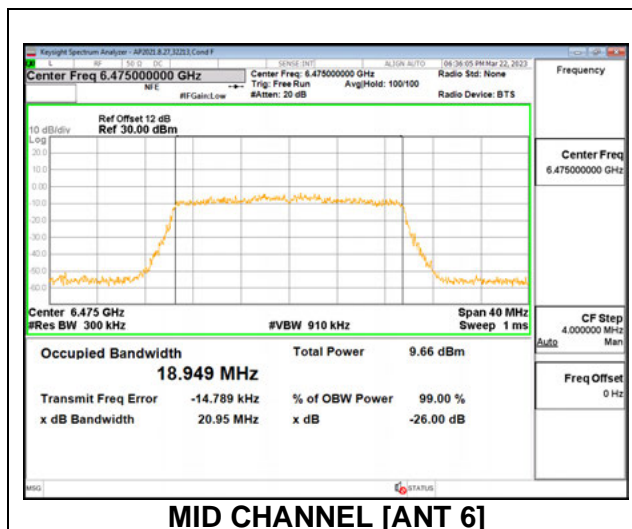
**2TX Antenna 6 + Antenna 5 CDD MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	20.23	19.59	18.355	18.273
Mid	6475	20.04	19.72	18.471	18.370
High	6515	19.97	19.62	18.426	18.381



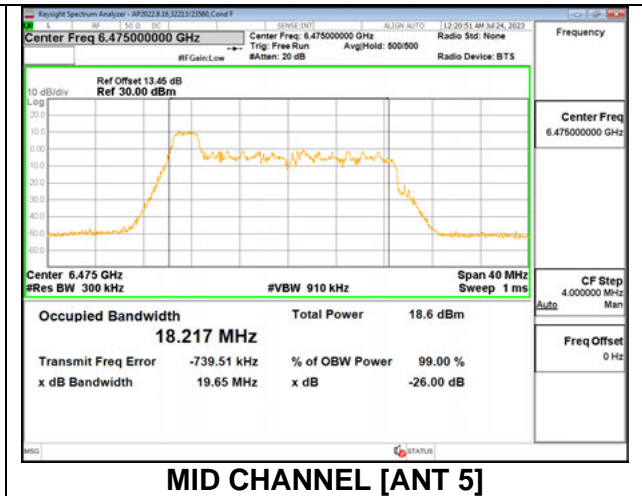
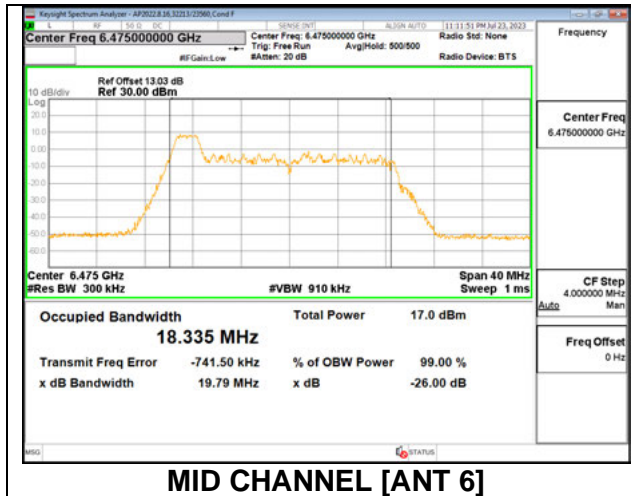
**2TX Antenna 6 + Antenna 5 CDD MODE: SU**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	21.07	21.25	18.947	18.951
Mid	6475	20.95	20.76	18.949	18.937
High	6515	20.95	21.00	18.971	19.003



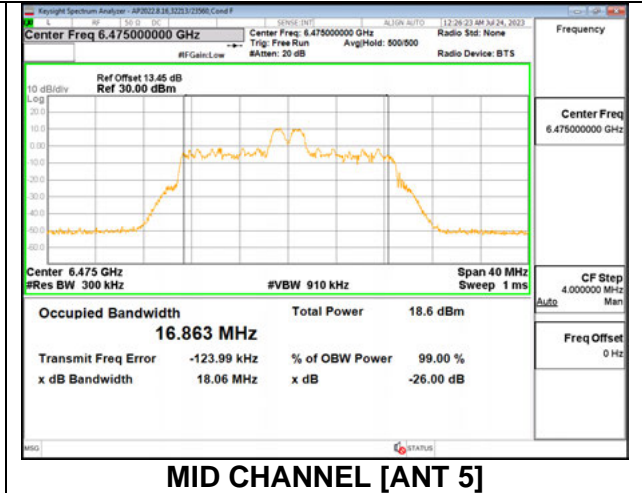
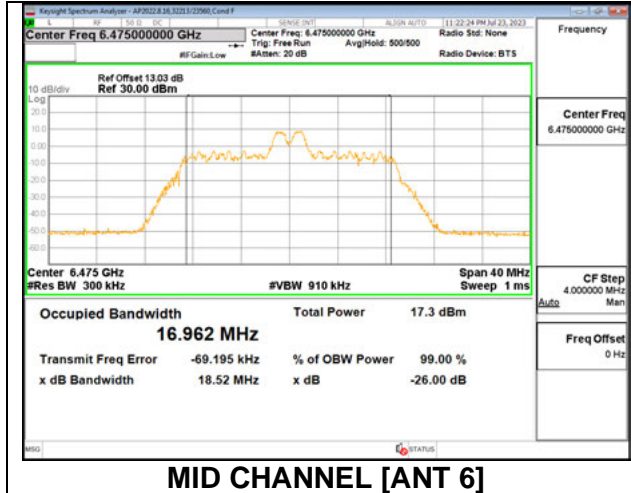
**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 0**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	19.79	19.49	18.368	18.159
Mid	6475	19.79	19.65	18.335	18.217
High	6515	19.70	19.80	18.263	18.225



**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 4**

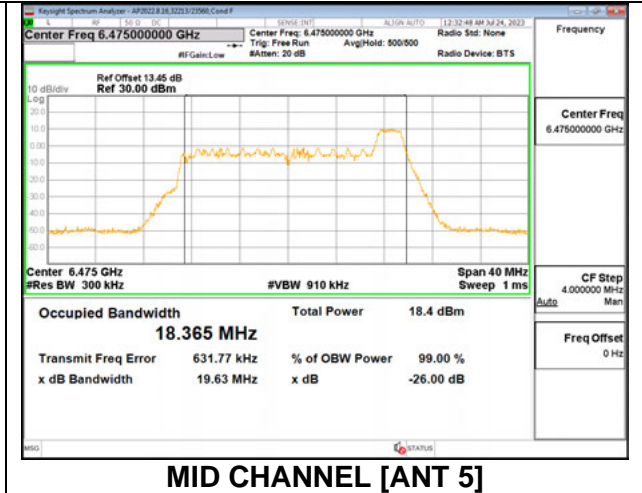
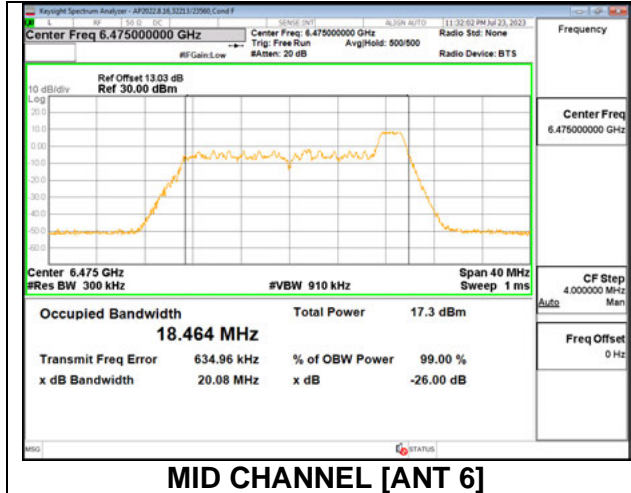
Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	18.34	18.08	16.854	16.795
Mid	6475	18.52	18.06	16.962	16.863
High	6515	18.35	18.27	16.933	16.928





**2TX Antenna 6 + Antenna 5 SDM MODE: 26 Tones, RU Index 8**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	20.03	19.66	18.479	18.357
Mid	6475	20.08	19.63	18.464	18.365
High	6515	20.04	19.40	18.390	18.014



**2TX Antenna 6 + Antenna 5 SDM MODE: SU Mode**

Channel	Frequency (MHz)	26 dB Bandwidth Antenna 6 (MHz)	26 dB Bandwidth Antenna 5 (MHz)	99% Bandwidth Antenna 6 (MHz)	99% Bandwidth Antenna 5 (MHz)
Low	6435	20.87	20.84	18.981	19.002
Mid	6475	20.75	20.72	18.960	18.931
High	6515	20.39	20.46	19.000	18.869

