



Band	UNII-2C																								
Mode	HE40																								
Frequency	5510 MHz																								
Ant	2																								
ORU	9RU																								
<p>Spectrum Analyzer 1 Occupied BW</p> <p>KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.51000000 GHz Avg/Hold: 500/500 Radio Std: None</p> <p>Center 5.51000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts)</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>37.796 MHz</td><td>Total Power</td><td>19.3 dBm</td></tr><tr><td>Transmit Freq Error</td><td>-748.07 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>40.05 MHz</td><td>x dB</td><td>-26.00 dB</td></tr></table>	Occupied Bandwidth	37.796 MHz	Total Power	19.3 dBm	Transmit Freq Error	-748.07 kHz	% of OBW Power	99.00 %	x dB Bandwidth	40.05 MHz	x dB	-26.00 dB	<p>Spectrum Analyzer 1 Occupied BW</p> <p>KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.51000000 GHz Avg/Hold: 500/500 Radio Std: None</p> <p>Center 5.51000 GHz #Res BW 390.00 kHz #Video BW 1.2000 MHz Span 80 MHz Sweep 1.00 ms (1001 pts)</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>35.600 MHz</td><td>Total Power</td><td>20.0 dBm</td></tr><tr><td>Transmit Freq Error</td><td>135.25 kHz</td><td>% of OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>37.93 MHz</td><td>x dB</td><td>-26.00 dB</td></tr></table>	Occupied Bandwidth	35.600 MHz	Total Power	20.0 dBm	Transmit Freq Error	135.25 kHz	% of OBW Power	99.00 %	x dB Bandwidth	37.93 MHz	x dB	-26.00 dB
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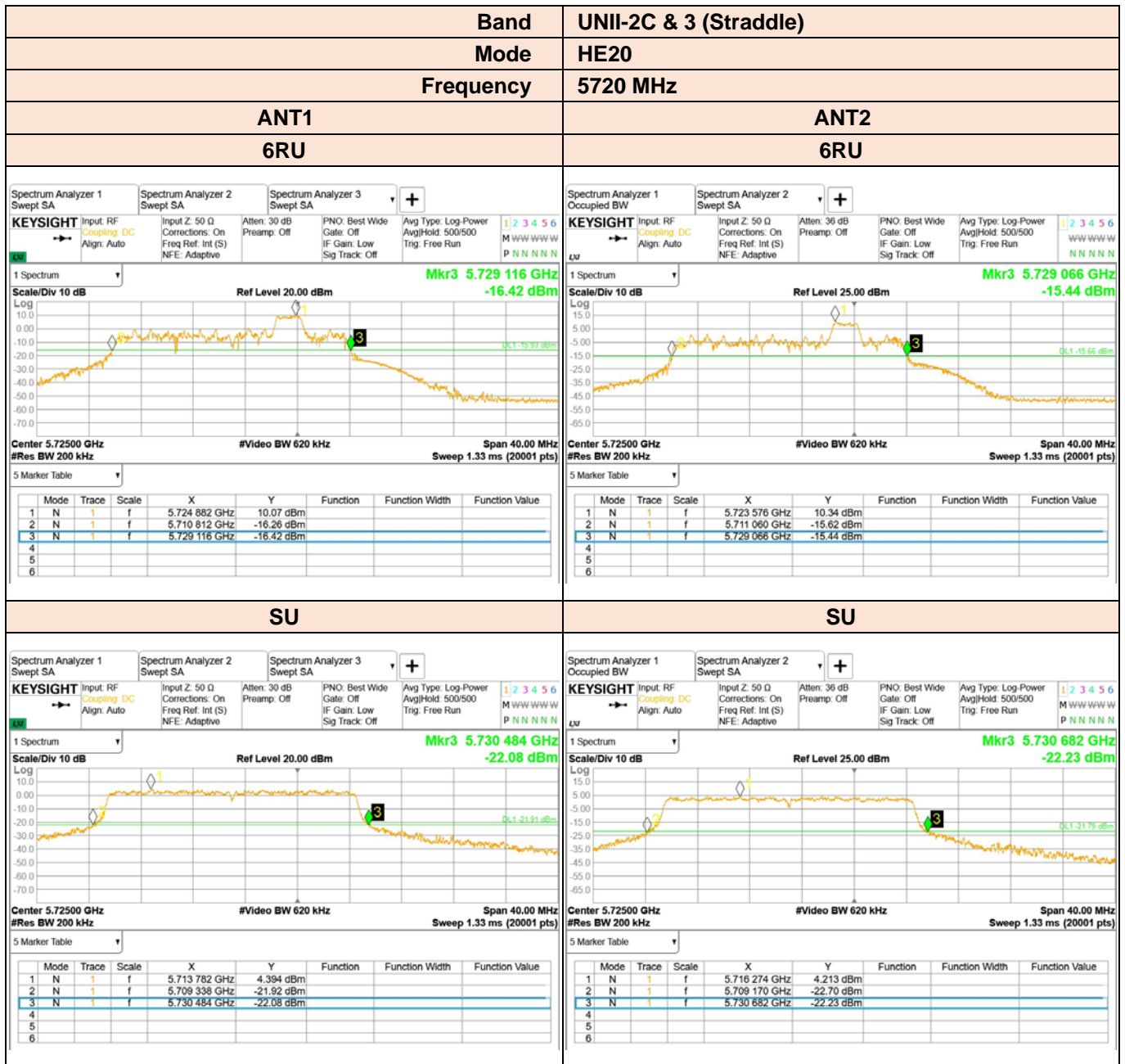
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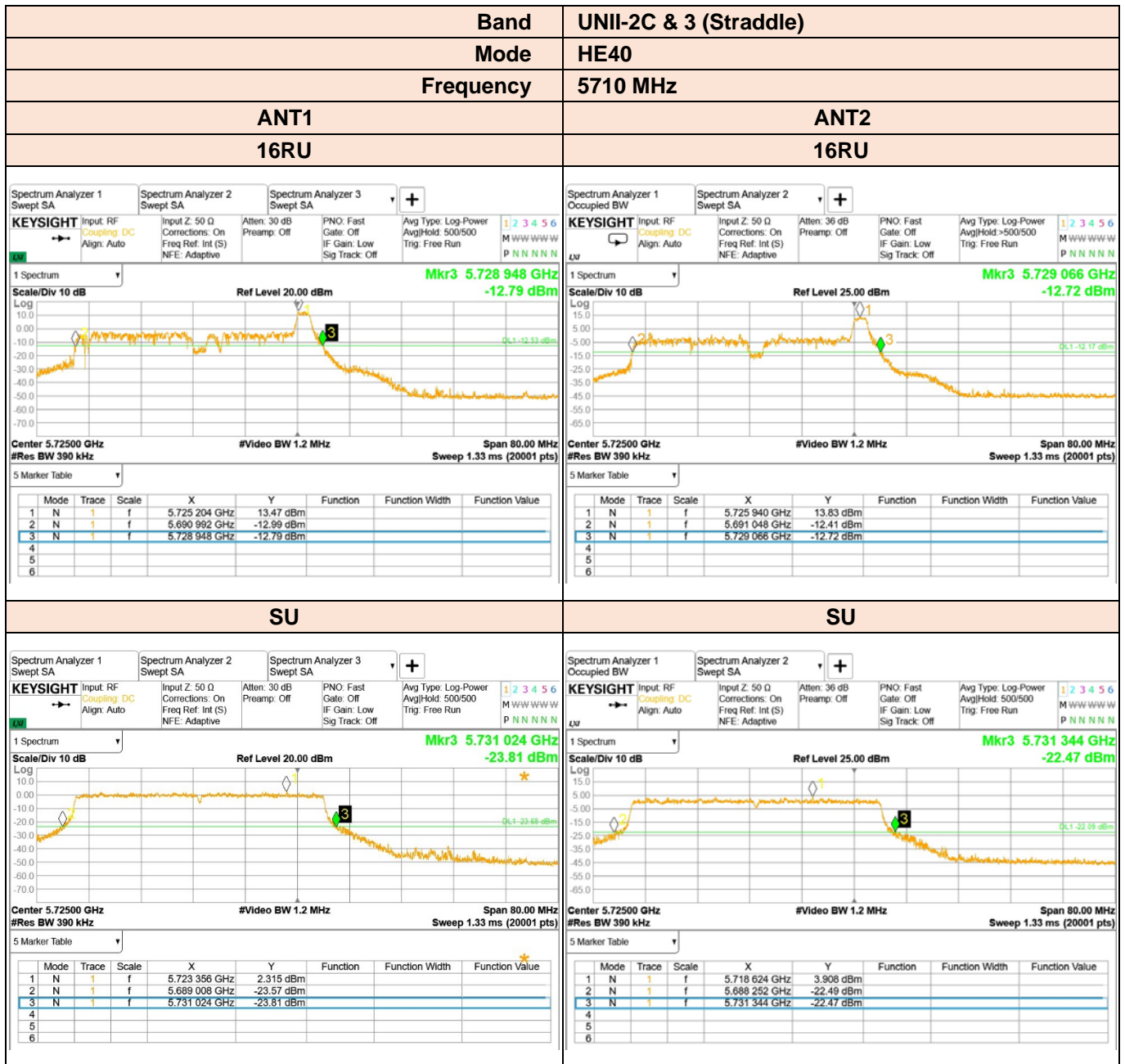


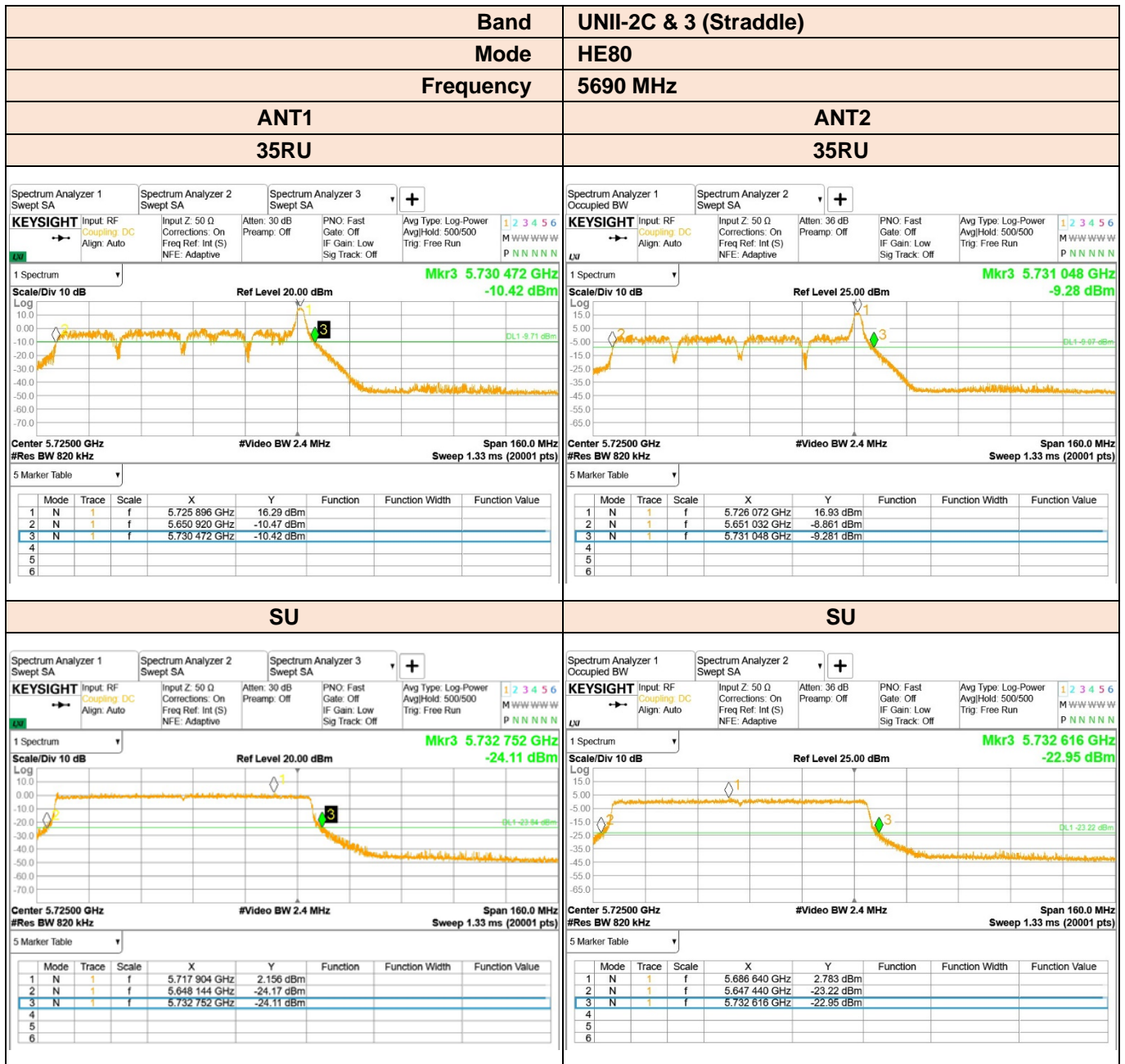
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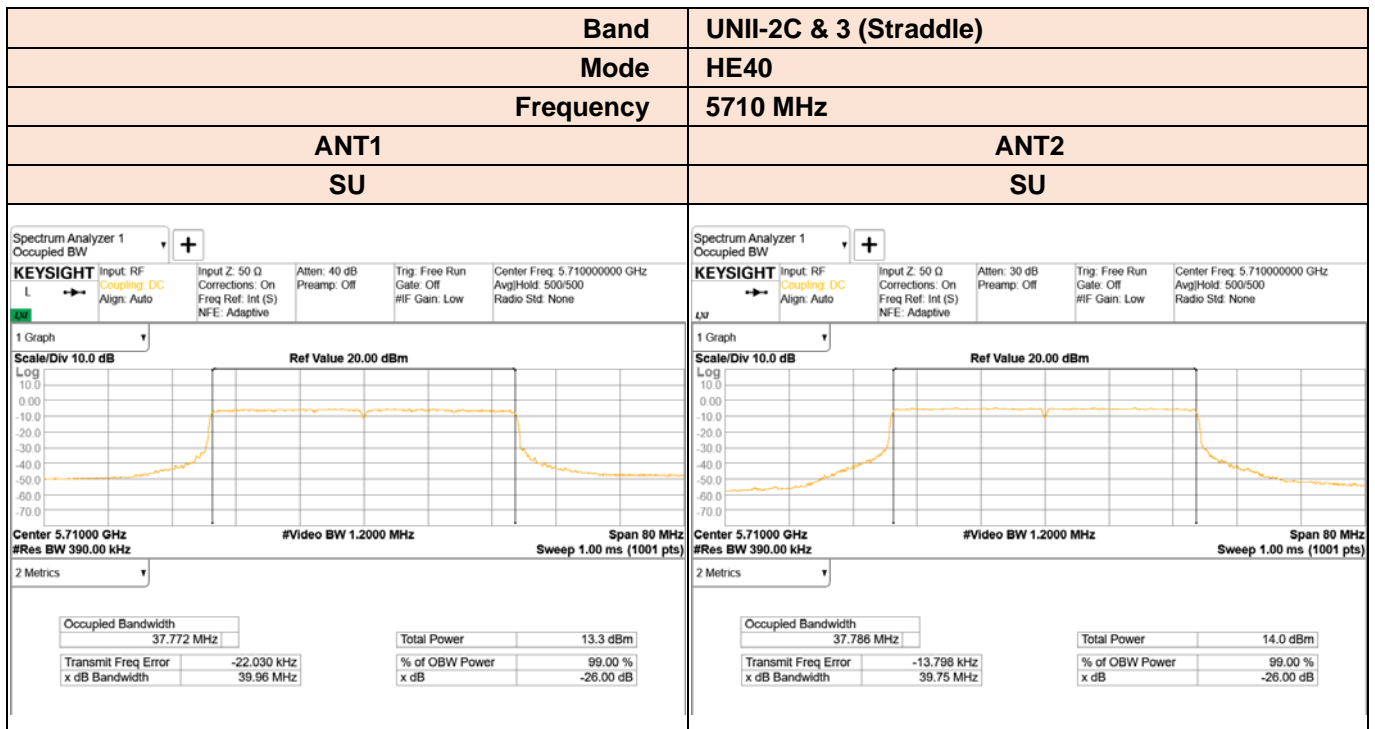
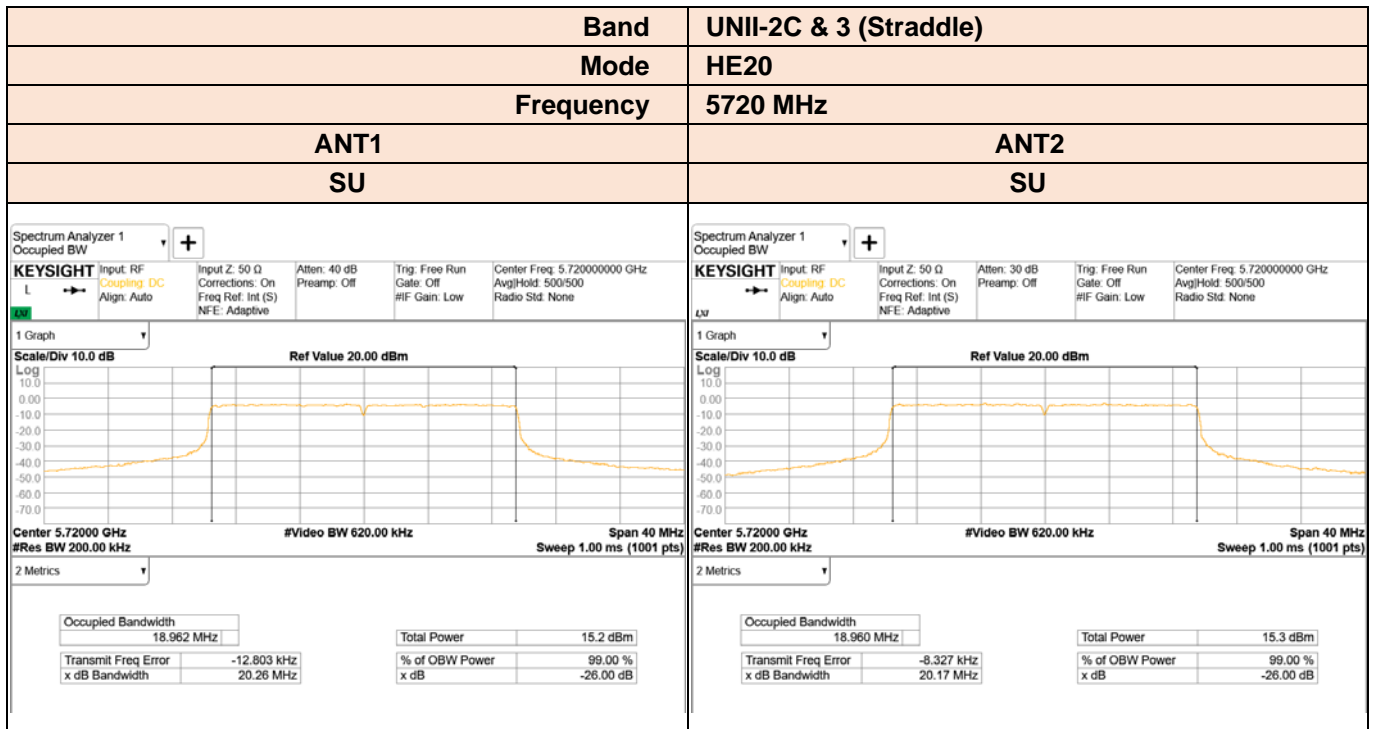


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<p>Spectrum Analyzer 1 Occupied BW</p> <p>KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.610000000 GHz Avg/Hold: 500/500 Radio Std: None</p> <p>Center 5.61000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts)</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>77.789 MHz</td> <td>Total Power</td> <td>21.0 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-1.9952 MHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>81.20 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>	Occupied Bandwidth	77.789 MHz	Total Power	21.0 dBm	Transmit Freq Error	-1.9952 MHz	% of OBW Power	99.00 %	x dB Bandwidth	81.20 MHz	x dB	-26.00 dB	<p>Spectrum Analyzer 1 Occupied BW</p> <p>KEYSIGHT Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 5.610000000 GHz Avg/Hold: 500/500 Radio Std: None</p> <p>Center 5.61000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts)</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>74.500 MHz</td> <td>Total Power</td> <td>21.2 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>2.701 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>78.19 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>	Occupied Bandwidth	74.500 MHz	Total Power	21.2 dBm	Transmit Freq Error	2.701 kHz	% of OBW Power	99.00 %	x dB Bandwidth	78.19 MHz	x dB	-26.00 dB
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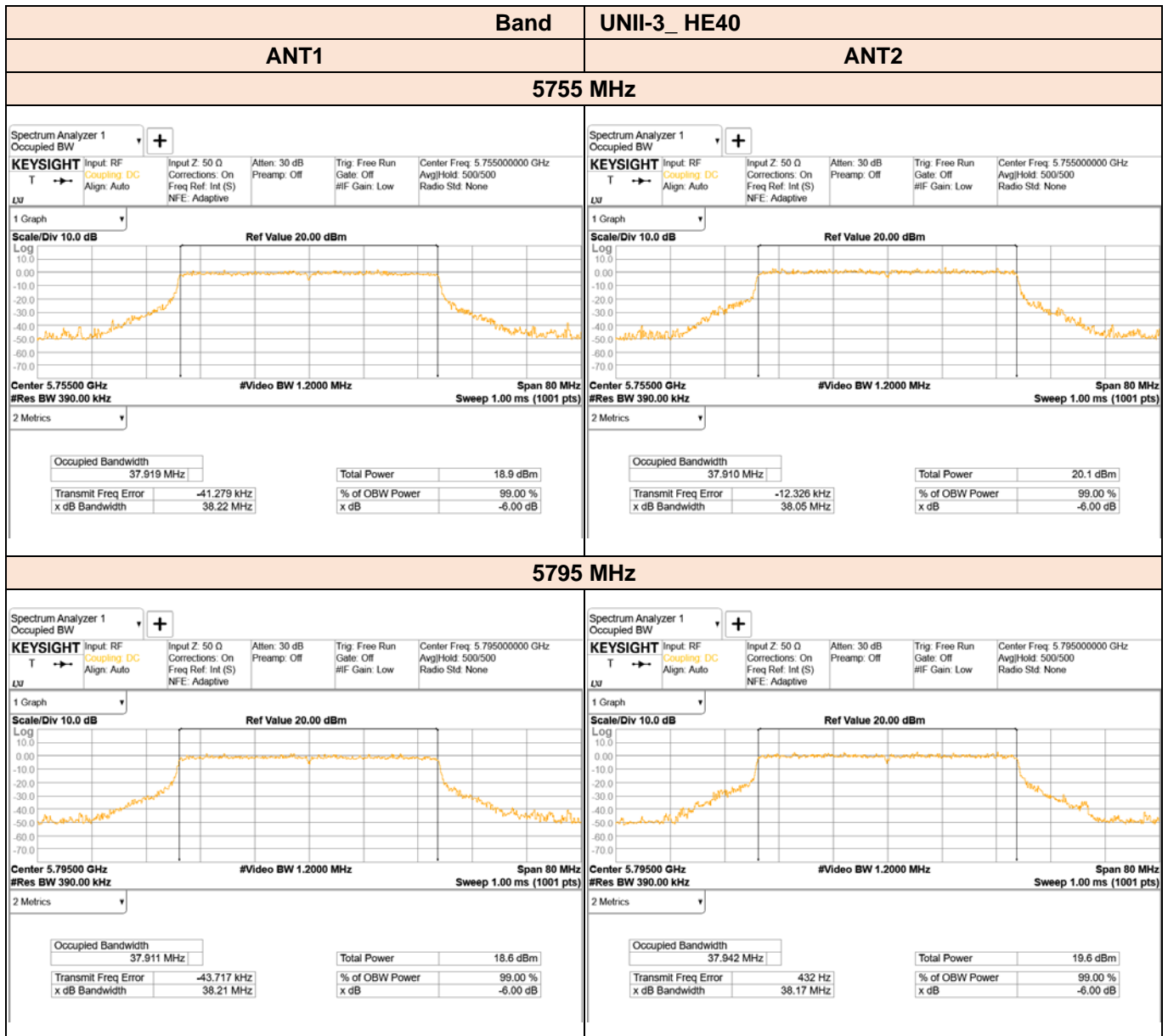


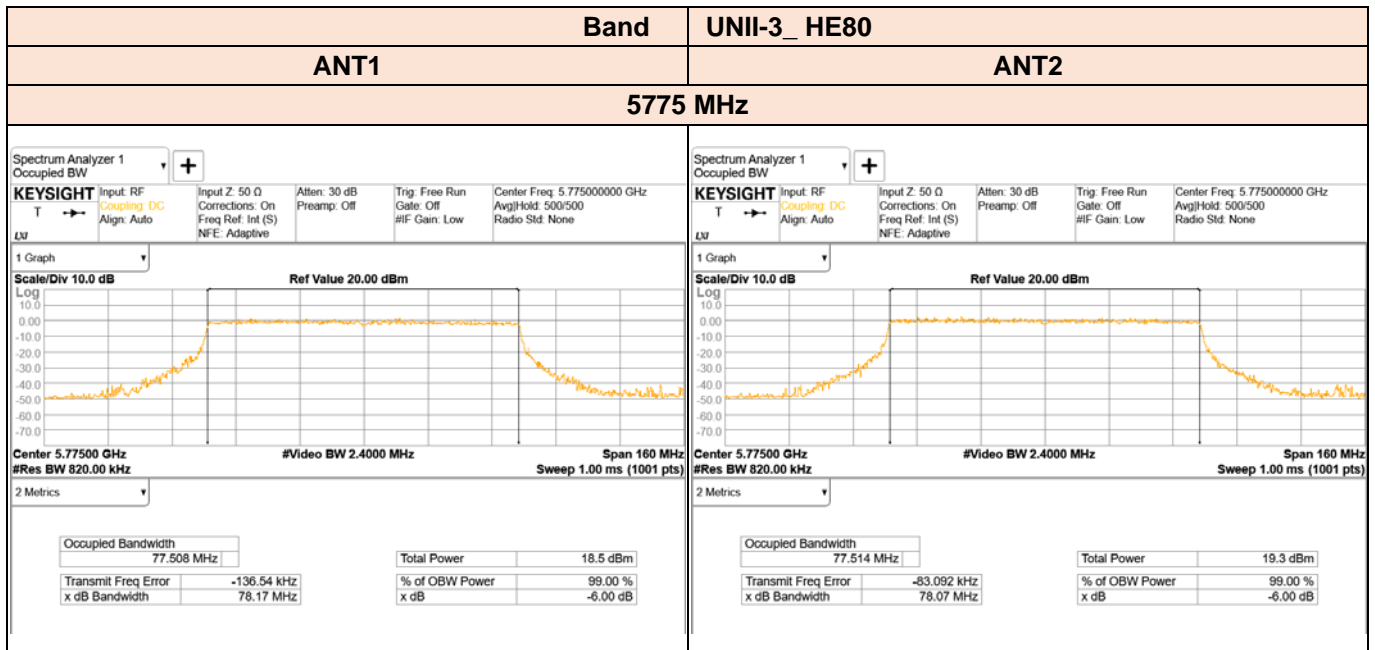


Band		UNII-2C & 3 (Straddle)																									
Mode		HE80																									
Frequency		5690 MHz																									
ANT1		ANT2																									
SU		SU																									
<p>Spectrum Analyzer 1 Occupied BW</p> <p>KEYSIGHT Input: RF Coupling: DC Align: Auto</p> <p>Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive</p> <p>Atten: 40 dB Preamp: Off</p> <p>Trig: Free Run Gate: Off #IF Gain: Low</p> <p>Center Freq: 5.69000000 GHz Avg/Hold: 500/500 Radio Std: None</p> <p>1 Graph</p> <p>Scale/Div 10.0 dB Ref Value 20.00 dBm</p> <p>Center 5.69000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts)</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>77.261 MHz</td> <td>Total Power</td> <td>13.2 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-3.657 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>80.77 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>		Occupied Bandwidth	77.261 MHz	Total Power	13.2 dBm	Transmit Freq Error	-3.657 kHz	% of OBW Power	99.00 %	x dB Bandwidth	80.77 MHz	x dB	-26.00 dB	<p>Spectrum Analyzer 1 Occupied BW</p> <p>KEYSIGHT Input: RF Coupling: DC Align: Auto</p> <p>Input Z: 50 Ω Corrections: On Freq Ref: Int (S) NFE: Adaptive</p> <p>Atten: 30 dB Preamp: Off</p> <p>Trig: Free Run Gate: Off #IF Gain: Low</p> <p>Center Freq: 5.69000000 GHz Avg/Hold: 456/500 Radio Std: None</p> <p>1 Graph</p> <p>Scale/Div 10.0 dB Ref Value 20.00 dBm</p> <p>Center 5.69000 GHz #Res BW 820.00 kHz #Video BW 2.4000 MHz Span 160 MHz Sweep 1.00 ms (1001 pts)</p> <p>2 Metrics</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>77.280 MHz</td> <td>Total Power</td> <td>14.2 dBm</td> </tr> <tr> <td>Transmit Freq Error</td> <td>-9.665 kHz</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>80.88 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>		Occupied Bandwidth	77.280 MHz	Total Power	14.2 dBm	Transmit Freq Error	-9.665 kHz	% of OBW Power	99.00 %	x dB Bandwidth	80.88 MHz	x dB	-26.00 dB
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Band		UNII-3_HE20																									
ANT1		ANT2																									
5745 MHz																											
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5825 MHz																											
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2.6 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards.

FCC CFR 47 Part 15, Subpart E (§15.407)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

All test items in this test report have been performed and recorded as per the above standards.

2.7 Test Equipment

Test Equipment is traceable to the National Institute of Standards and Technology (NIST). Measurement antenna used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Serial Number	Cal Date	Cal Due
R&S	HFH2-Z2E	Active Loop Antenna, 30 MHz	349806	2019.03.27	2021.03.27
Schwarzbeck	VULB 9163	Trilog Antenna, 3 GHz (with 6 dB ATT.)	01199	2019.04.03	2021.04.03
R&S	HF907	Horn Antenna, 18 GHz	102772	2020.01.22	2021.01.22
Steatite Antenna	QSH-SL-18-26-S-20	Horn Antenna, 26.5 GHz	19926	2020.03.04	2021.03.04
Schwarzbeck	BBHA9170	Antenna, Horn, 40 GHz	00955	2020.01.07	2021.01.07
R&S	SCU08F2	Signal Conditioning Unit, 8 GHz	08400016	2019.12.30	2020.12.30
R&S	SCU-18F	Signal Conditioning Unit, 18 GHz	180111	2019.12.30	2020.12.30
R&S	SCU-26F	Signal Conditioning Unit, 26.5 GHz	260005	2019.12.30	2020.12.30
L3 Narda-MITEQ	JS44-18004000-33-8P	Amplifier, 40 GHz	2142086	2020.04.07	2021.04.07
R&S	ESW44	EMI Test Receiver, 44 GHz	101812	2020.02.20	2021.02.20
Keysight Technologies	N9030B	Spectrum Analyzer, 44 GHz	MY57142476	2019.12.26	2020.12.26
R&S	FSW50	Spectrum Analyzer, 50 GHz	101403	2020.03.23	2021.03.23
Aeroflex	40AH2W-3	Attenuator, 3 dB	1	2019.12.31	2020.12.31
Mini-Circuits	VAT-10W2+	Attenuator, 10 dB	1622	2020.01.02	2021.01.02
Aeroflex	40AH2W-10	Attenuator, 10 dB	1	2019.12.31	2020.12.31
R&S	NRP6A	Average Power Sensor	102045	2019.12.31	2020.12.31
R&S	NRP6A	Average Power Sensor	102044	2019.12.31	2020.12.31
R&S	NRX	Power Meter, 110 GHz	100947	2019.12.30	2020.12.30
Keysight Technologies	MP400B	MIMO Power Set Master, 18 GHz	None	2020.01.03	2021.01.03
Wt Microwave	WT-A1700-LS	Low Pass Filter, 4.5 GHz	WT190313-6-6	2020.01.03	2021.01.03
Wt Microwave	WT-A1699-HS	High Pass Filter 6.5 GHz	WT190313-6-5	2020.01.03	2021.01.03
Weinschel	1580	Divider	UA422	2020.03.23	2021.03.23
Weinschel	1580	Divider	SW796	2020.03.23	2021.03.23
R&S	ENV216	LISN	102437	2019.12.26	2020.12.26
R&S	ESR	EMI Test Receiver, 3.6 GHz	102529	2019.12.27	2020.12.27

3 Test Results

3.1 Antenna Requirement

Except from §15.203 of the FCC Rules/Regulations:

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of the section.

- The antenna(s) of the EUT are Permanently attached.
- There are no provisions for connection to an external antenna.

Result

The EUT complies with the requirement of §15.203

3.2 6 dB Bandwidth

3.2.1 Regulation

§15.207(e) : Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedure

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.725–5.85 GHz. The following procedure shall be used for measuring this bandwidth:

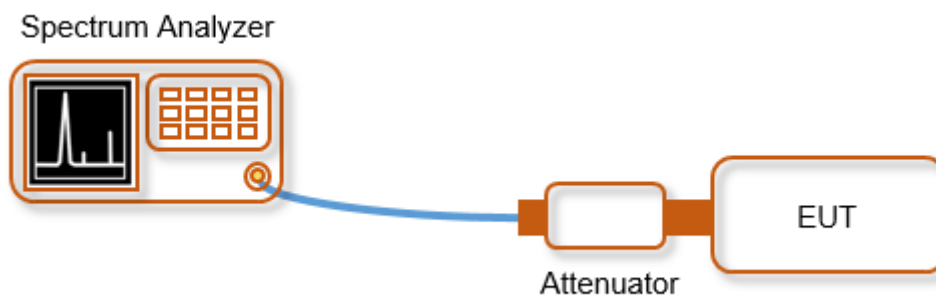
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

3.2.3 Deviation from Test Standard

No deviation.

3.2.4 Test Setup



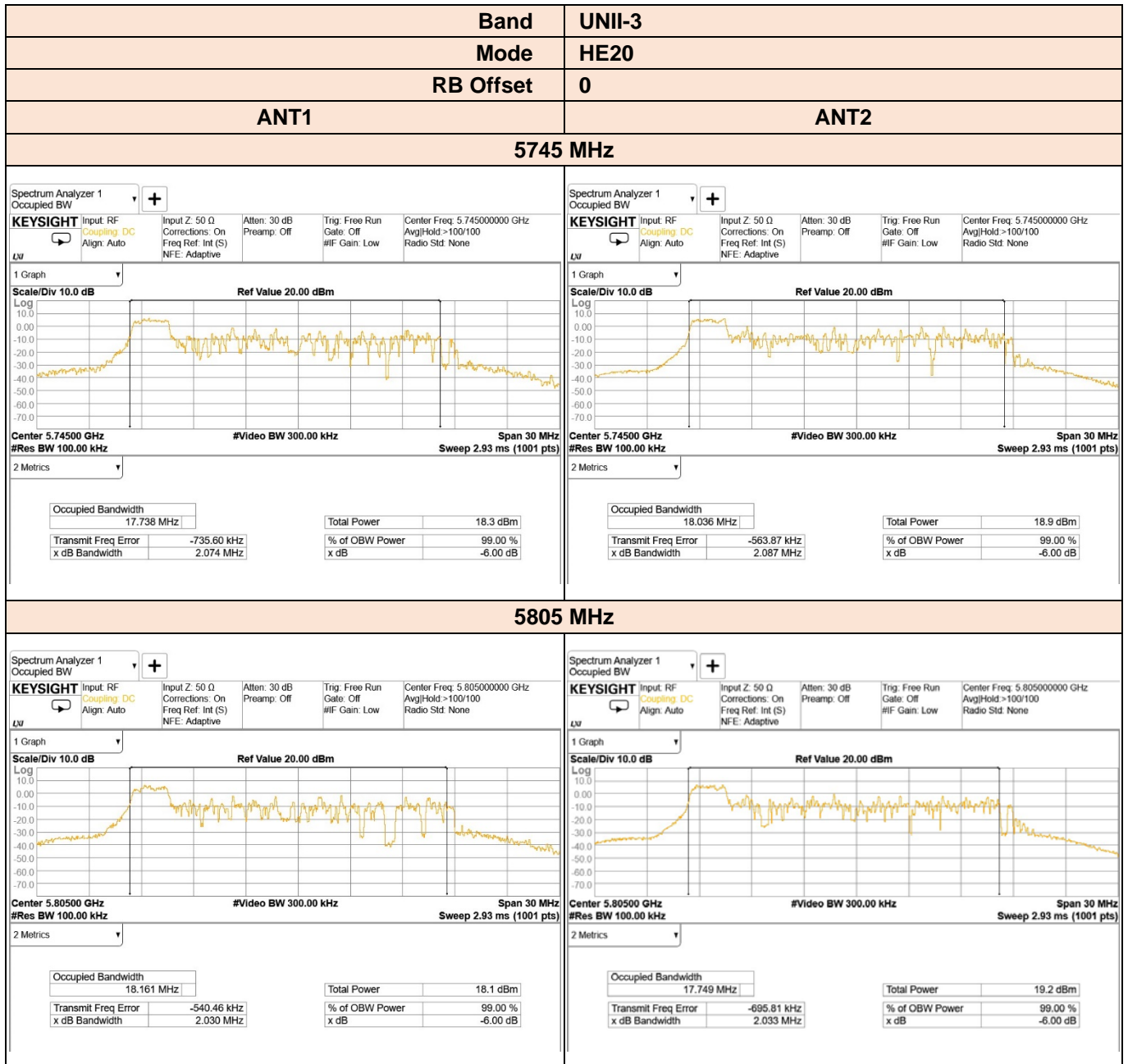
3.2.5 Test Result

[Test Data of 6 dB Bandwidth]

Band	Test Mode	Channel	Frequency [MHz]	Tones	RU offset	6 dB BW [MHz]		Limit [MHz]
						ANT1	ANT2	
U-NII-3	802.11ax HE20	Lowest	5 745	26T	0	2.09	2.08	0.50
		Middle	5 805			2.12	2.10	
		Highest	5 825			2.13	2.07	
		Minimum 6 dB Bandwidth		2.09		2.07		
	802.11ax HE40	Lowest	5 755	26T	0	2.12	2.14	
		Highest	5 795			2.10	2.11	
		Minimum 6 dB Bandwidth		2.10		2.11		
	802.11ax HE80	Middle	5 775	26T	0	2.26	2.24	
		Minimum 6 dB Bandwidth		2.26		2.24		



[Test Plot of 6 dB Bandwidth]





5825 MHz

