

Audix Technology Corp.
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Test Date	2018/03/26	Temp./Hum.	25°C /54%
Mode	802.11ac-VHT80	UNII Band	II-2A
Cable Loss	1.74dB	Frequency	TX 5290MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02

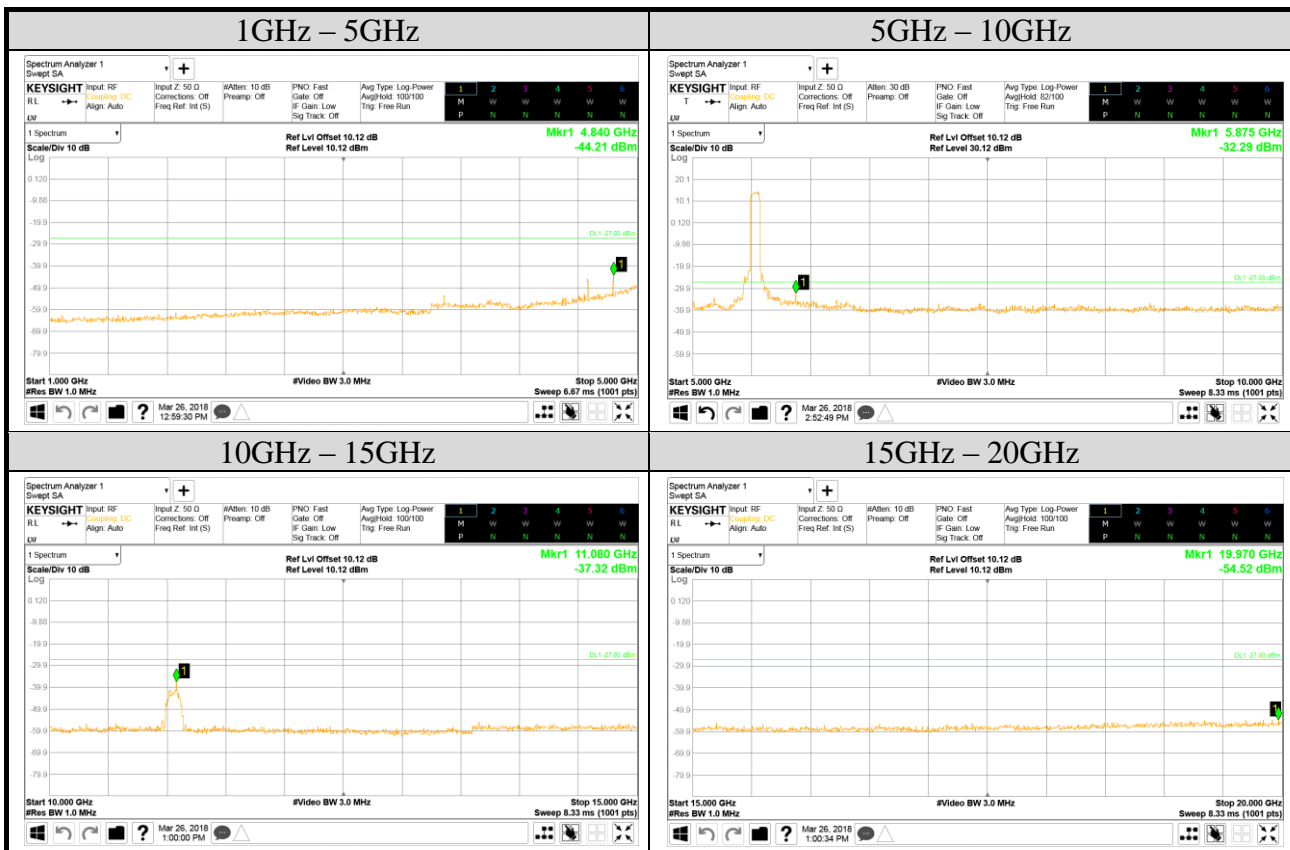




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Test Date	2018/03/26	Temp./Hum.	25°C /54%
Mode	802.11ac-VHT80	UNII Band	II-2C
		Frequency	TX 5530MHz
Cable Loss	1.74dB	Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		6.02	

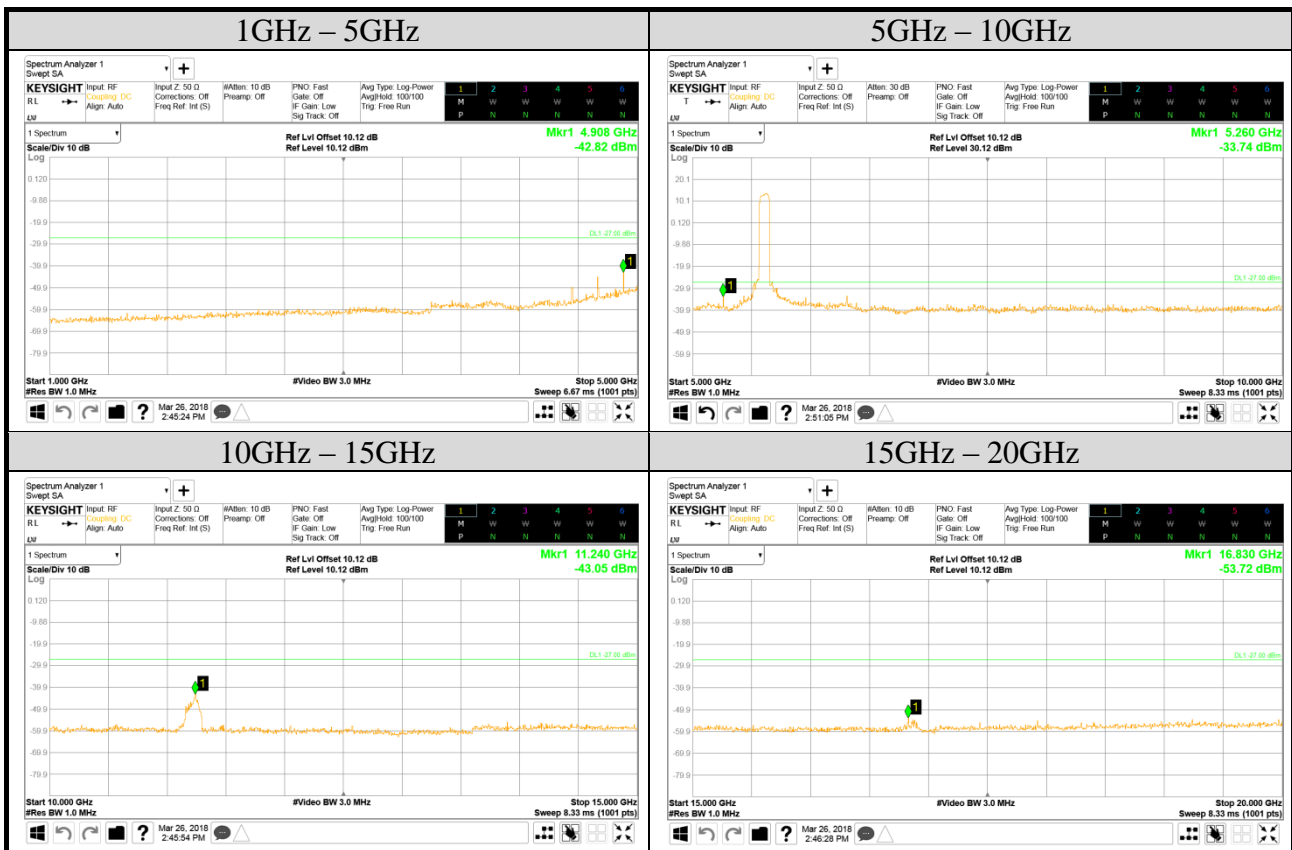


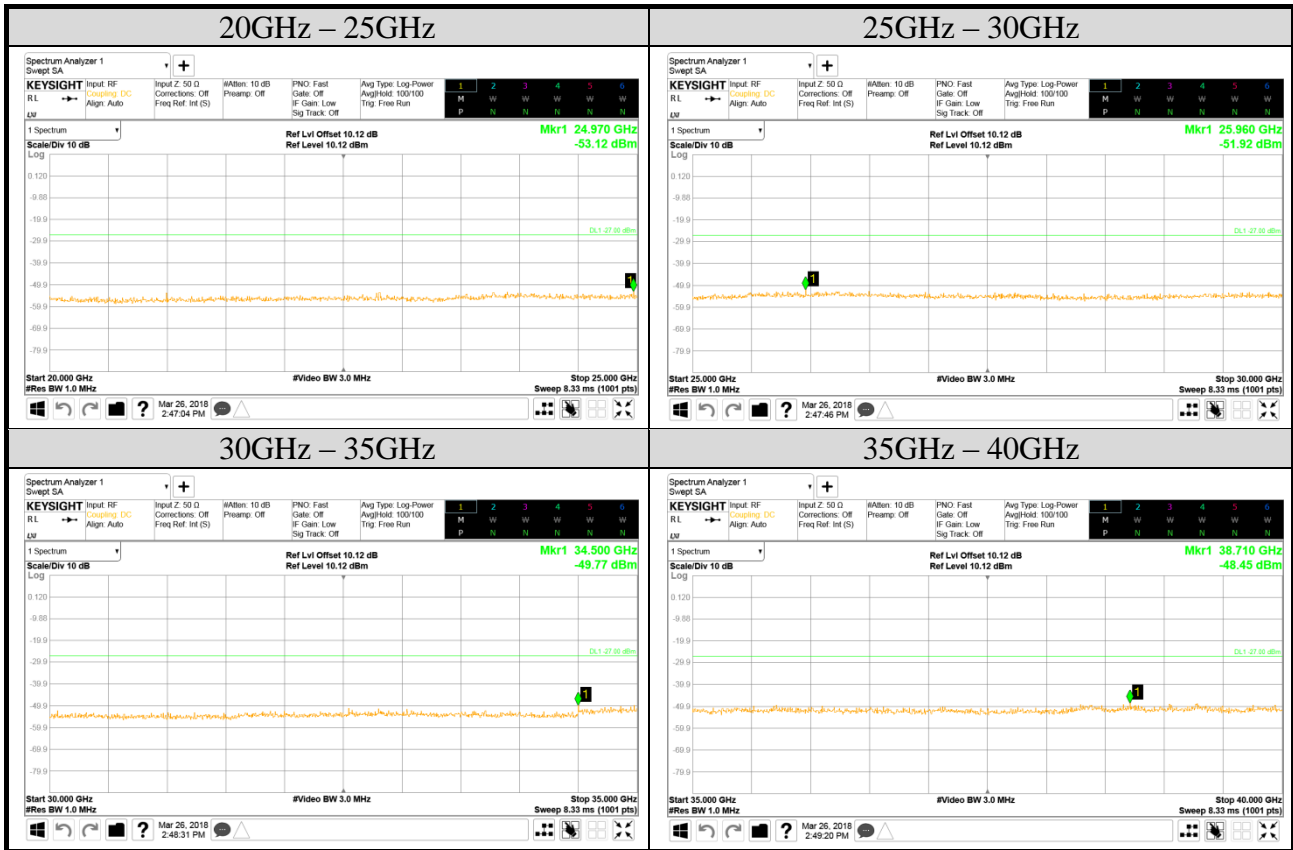


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Test Date	2018/03/26	Temp./Hum.	25°C/54%
Mode	802.11ac-VHT80	UNII Band	II-2C
Cable Loss	1.74dB	Frequency	TX 5610MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02

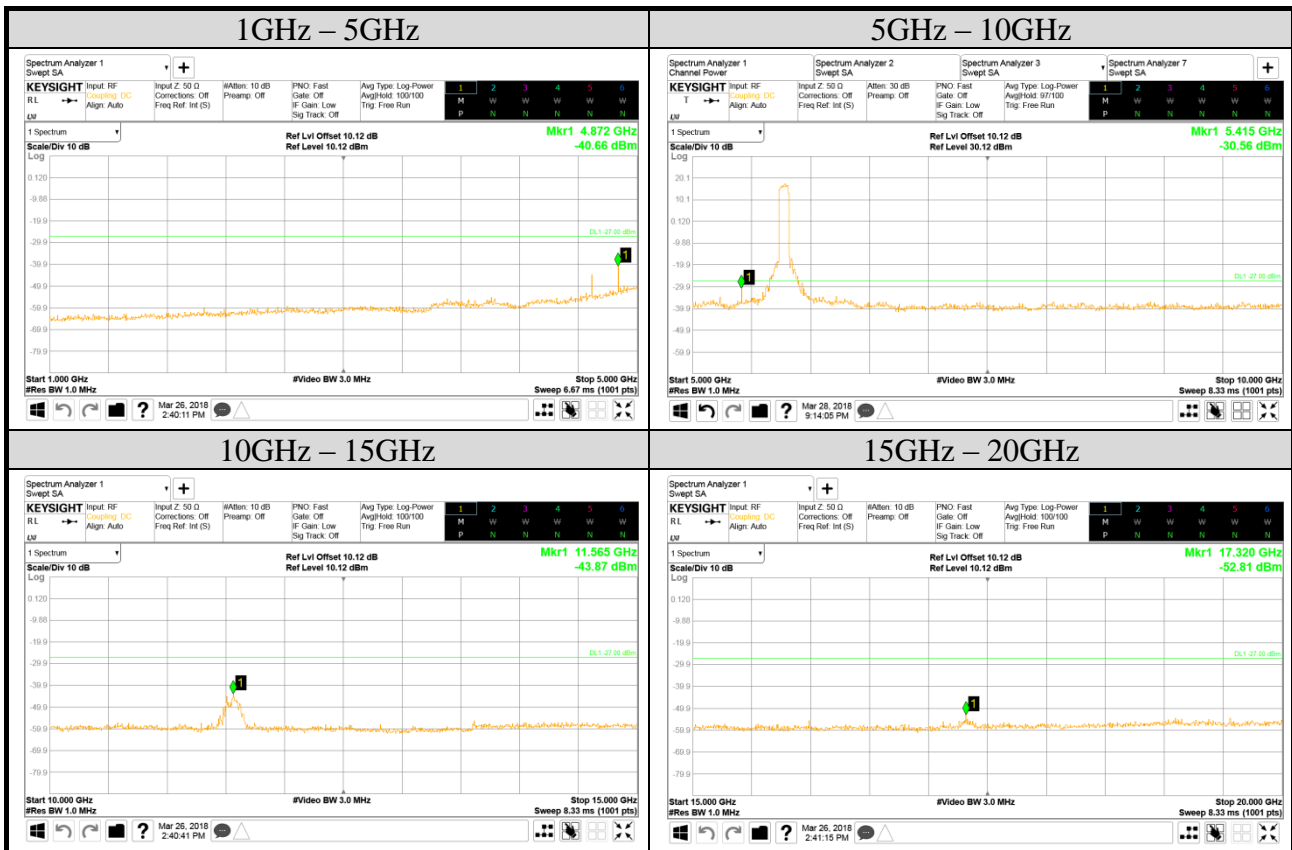


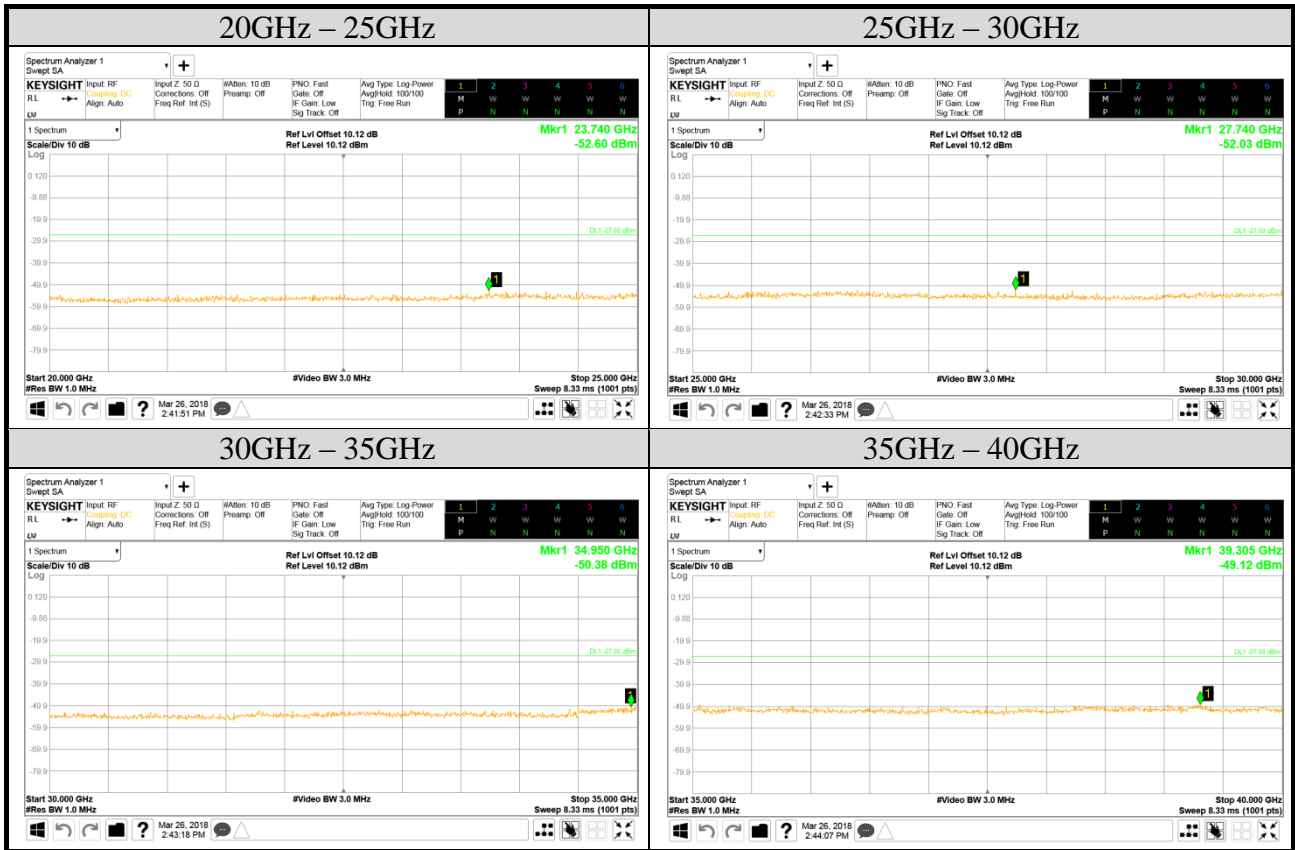


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Test Date	2018/03/26~28	Temp./Hum.	25°C/54%
Mode	802.11ac-VHT80	UNII Band	III
Cable Loss	1.74dB	Frequency	TX 5775MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)
			6.02





A.6 POWER SPECTRAL DENSITY

Test Date	2018/03/26~11/26	Temp./Hum.	24~25°C/54~55%
Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)		

A.6.1 Power Spectral Density Result

- CDD Mode

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit	
802.11a	I	5180	7.816	8.62 dBm/MHz ^{Note 2}	
		5200	8.056		
		5240	7.979		
	II-2A	5260	7.983		
		5300	7.841		
		5320	7.677		
		II-2C	5500		8.053
	5580		8.091		
	5700		8.086		
	III ^{Note3}	5745	15.943		27.62dBm/500 kHz ^{Note 2}
		5785	16.767		
5825		16.414			

Note: 1. All results have been included cable loss and Simultaneous Factor and correct duty factor.

2. According to KDB 662911 D01, Directional gain= $G_{ANT} + \text{Array Gain}$;

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS})$$

$$\text{Directional gain} = 2.36 + 10 \log (4/1) = 2.36 + 6.02 = 8.38 \text{dBi} > 6 \text{dBi}$$

$$\text{Band I~II-2C: Limit} = 11 - (8.38 - 6) = 8.62 \text{dBm} \quad \text{Band III: Limit} = 30 - (8.38 - 6) = 27.62 \text{dBm}$$

3. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit	
802.11n-HT20	I	5180	8.048	8.62 dBm/MHz ^{Note 2}	
		5200	7.763		
		5240	8.087		
	II-2A	5260	8.052		
		5300	7.967		
		5320	7.887		
	II-2C	5500	8.038		
		5580	8.115		
		5700	8.114		
	III ^{Note3}	5745	17.168		27.62dBm/500 kHz ^{Note 2}
5785		17.183			
5825		16.838			
802.11ac-VHT40	I	5190	8.118	8.62 dBm/MHz ^{Note 2}	
		5230	8.020		
	II-2A	5270	8.098		
		5310	7.820		
	II-2C	5510	8.118		
		5550	8.102		
		5670	8.100		
	III ^{Note3}	5755	12.974		27.62dBm/500 kHz ^{Note 2}
		5795	13.433		
	802.11ac-VHT80	I	5210		6.285
II-2A		5290	6.581		
		II-2C	5530	6.665	
5610			6.487		
III ^{Note3}		5775	10.883	27.62dBm/500 kHz ^{Note 2}	

Note: 1. All results have been included cable loss and Simultaneous Factor and correct duty factor.

2. According to KDB 662911 D01, Directional gain= $G_{ANT} + \text{Array Gain}$;

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS})$$

$$\text{Directional gain} = 2.36 + 10 \log (4/1) = 2.36 + 6.02 = 8.38 \text{dBi} > 6 \text{dBi}$$

$$\text{Band I} \sim \text{II-2C: Limit} = 11 - (8.38 - 6) = 8.62 \text{dBm} \quad \text{Band III: Limit} = 30 - (8.38 - 6) = 27.62 \text{dBm}$$

3. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

● SDM Mode

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit	
802.11n-HT20	I	5180	10.308	11 dBm/MHz	
		5200	10.390		
		5240	10.461		
	II-2A	5260	10.464		
		5300	10.372		
		5320	10.302		
	II-2C	5500	10.455	30dBm/500 kHz	
		5580	10.282		
		5700	10.467		
	III ^{Note3}	5745	17.168		
5785		17.183			
5825		16.838			
802.11ac-VHT40	I	5190	10.450		11 dBm/MHz
		5230	9.529		
	II-2A	5270	9.297		
		5310	8.960		
	II-2C	5510	8.962		
		5670	8.176		
	III ^{Note3}	5755	12.974	30dBm/500 kHz	
		5795	13.433		
802.11ac-VHT80	I	5210	5.418	11 dBm/MHz	
	II-2A	5290	4.891		
	II-2C	5530	5.684		
		5610	5.291		
	III ^{Note3}	5775	10.883	30dBm/500 kHz	

Note: 1. All results have been included cable loss and Simultaneous Factor and correct duty factor.

2. According to KDB 662911 D01, Directional gain= $G_{ANT} + \text{Array Gain}$;

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS})$$

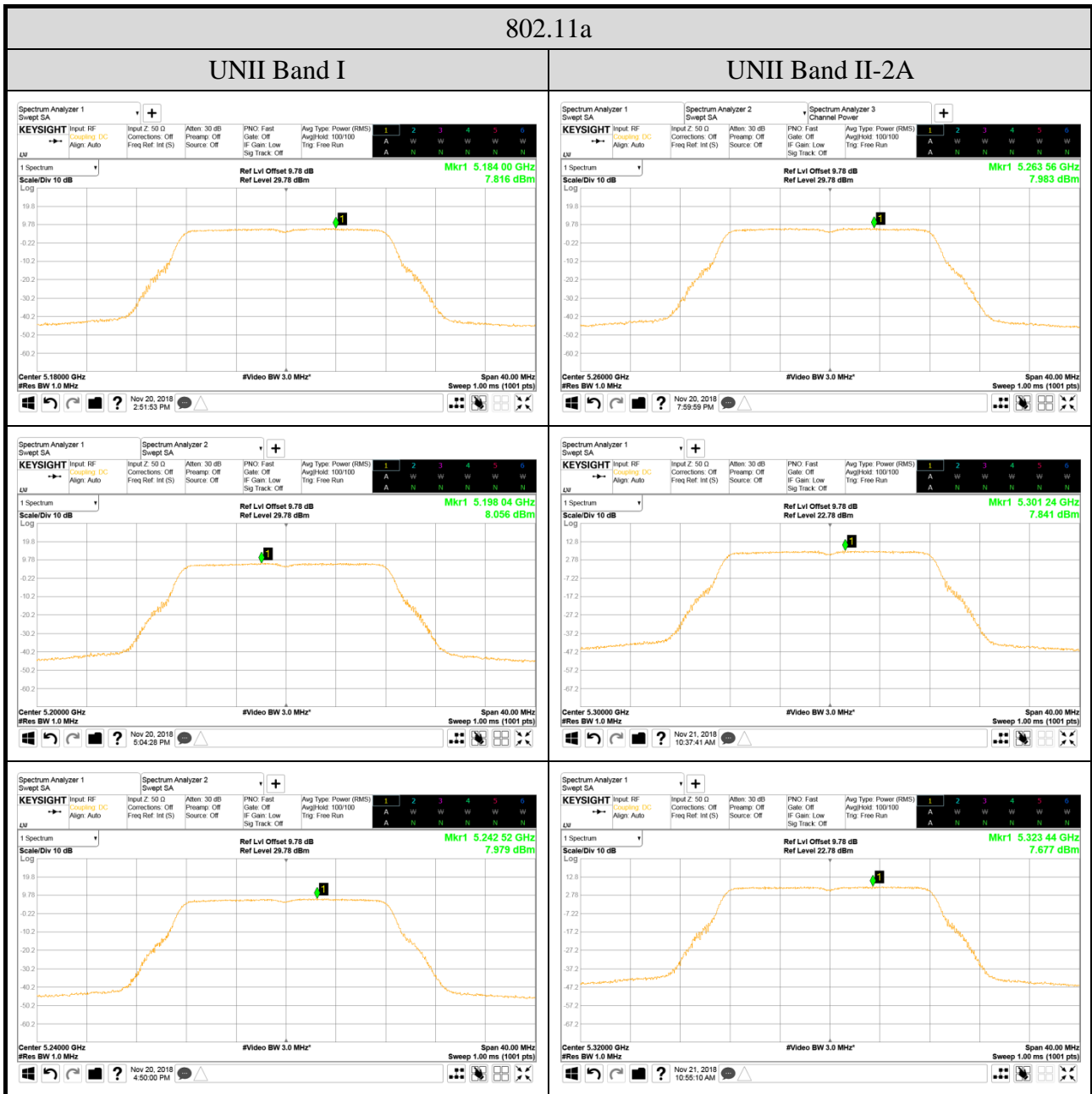
$$\text{Directional gain} = 2.36 + 10 \log (4/2) = 2.36 + 3.01 = 5.37 \text{dBi} < 6 \text{dBi}$$

3. BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

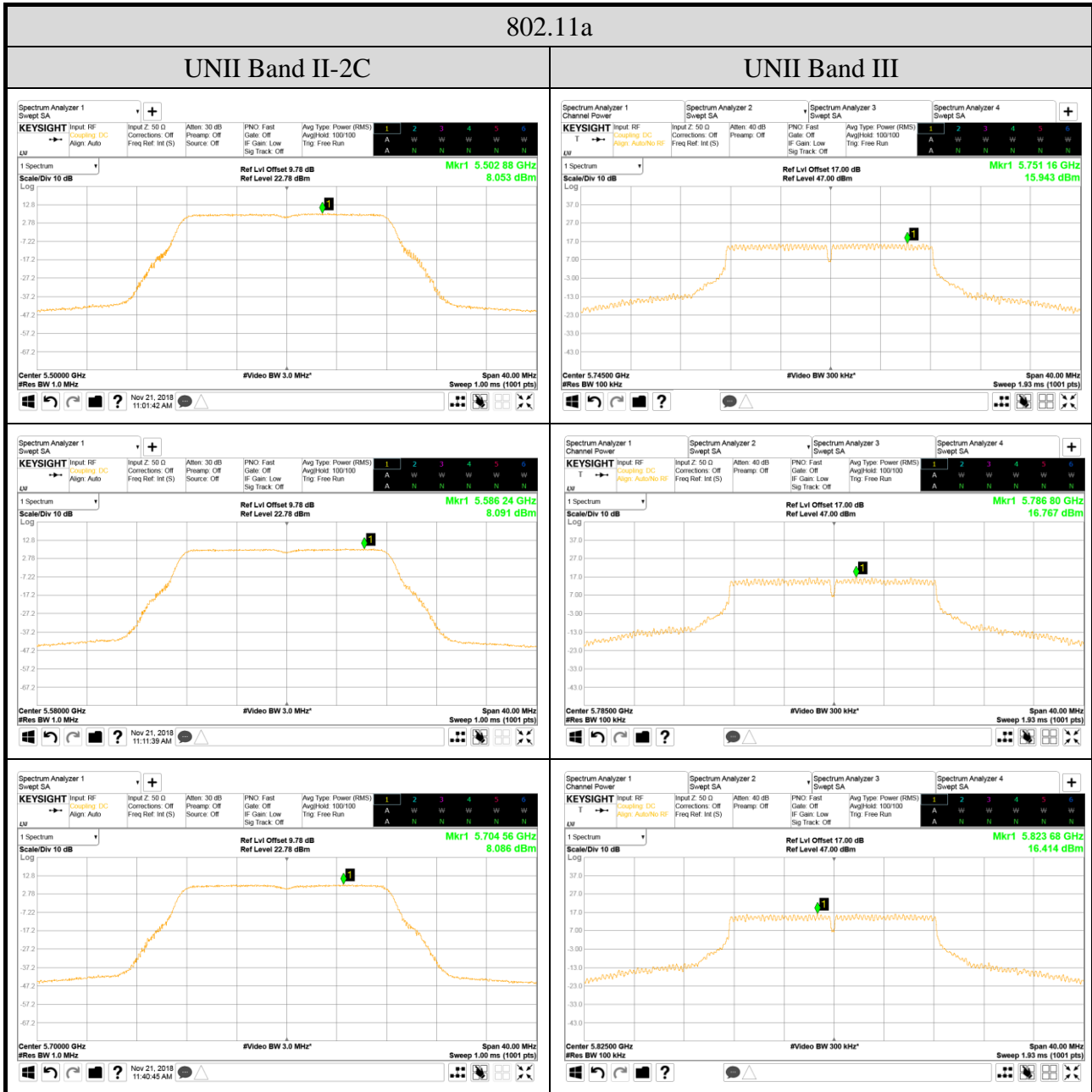
A.6.3 Measurement Plots

- CDD Mode

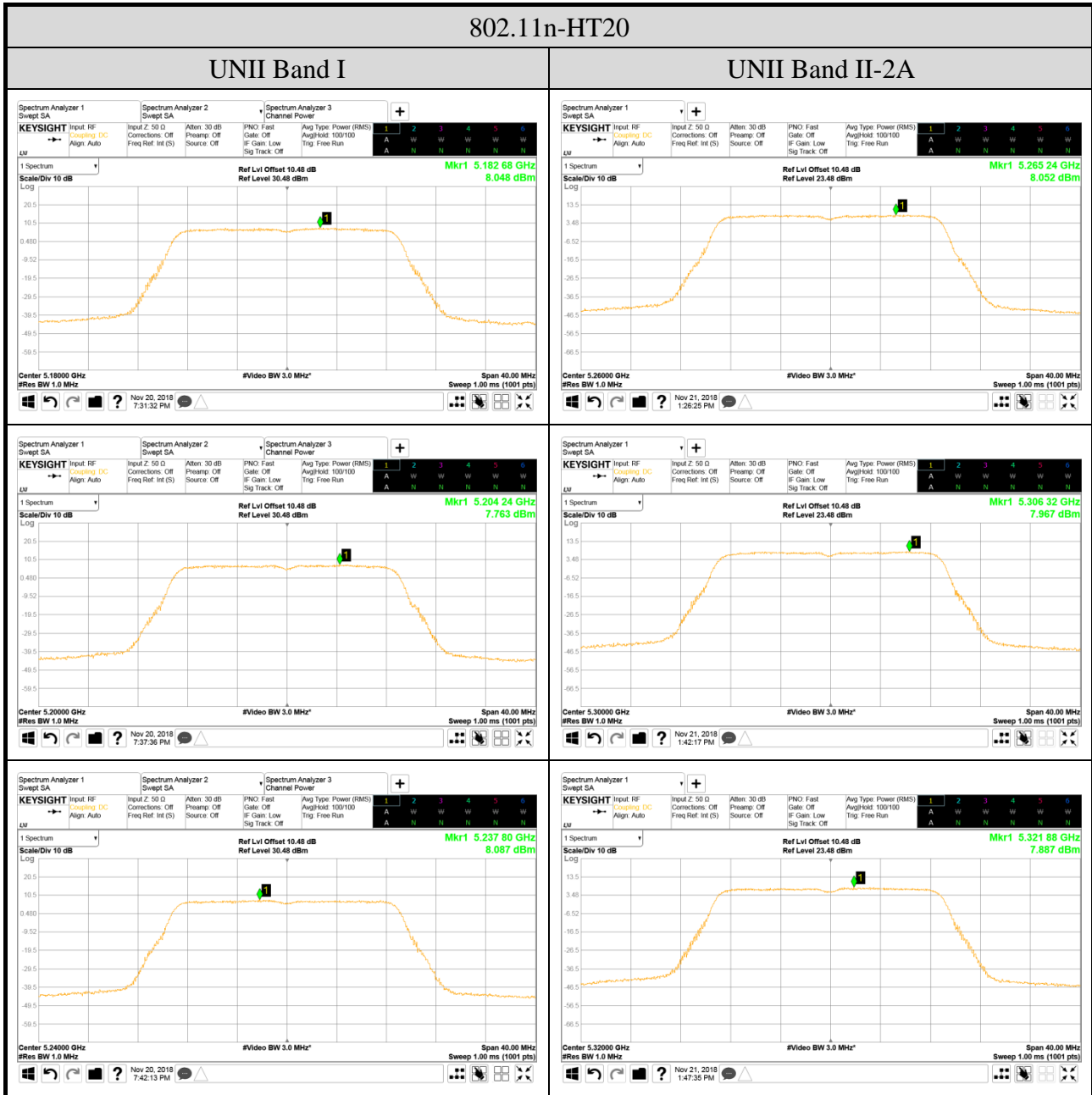
Cable Loss	Band I & II-2A: 3.48dB	Duty Cycle Factor	0.28dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



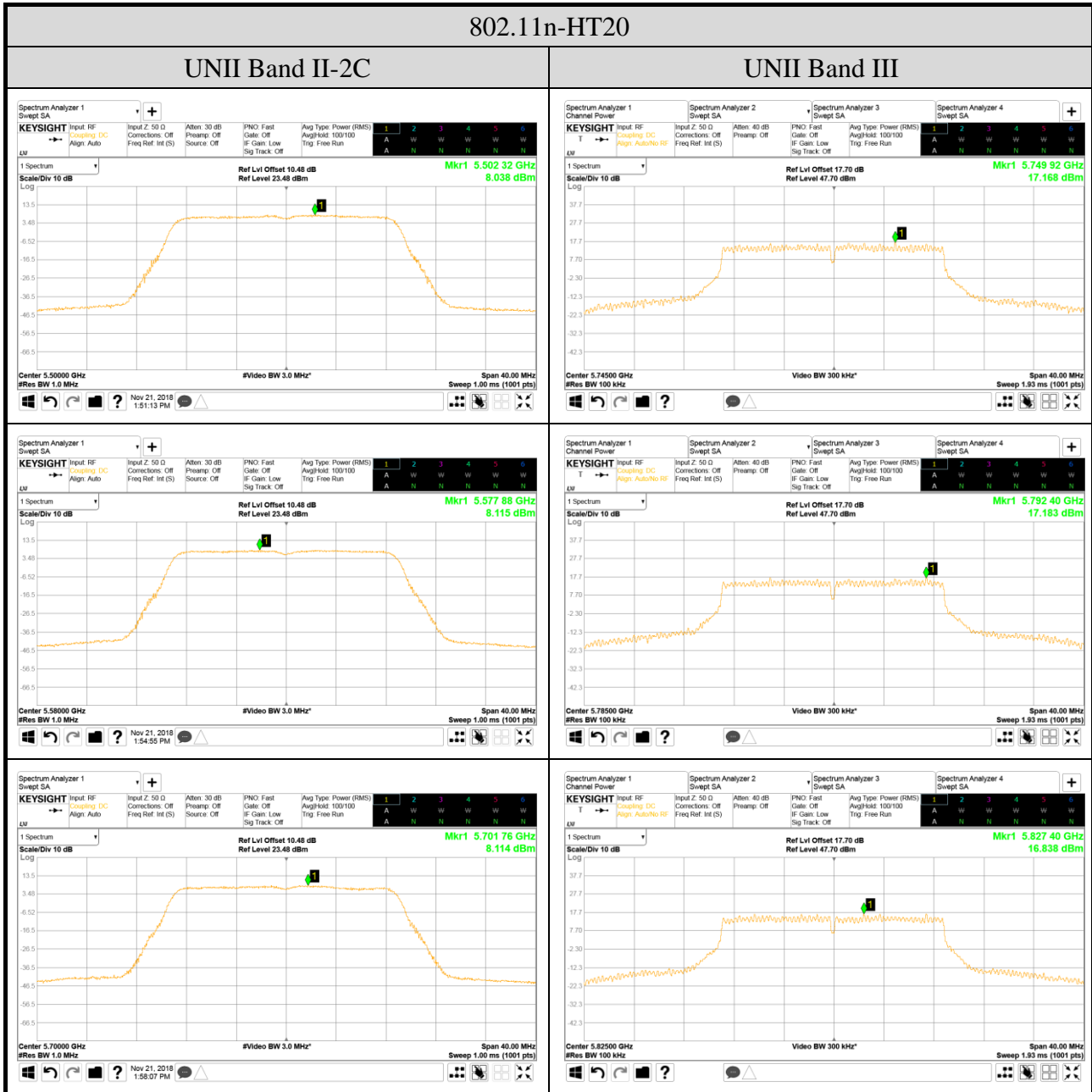
Cable Loss	Band II-2C: 3.48dB Band III: 3.7dB	Duty Cycle Factor	0.28dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



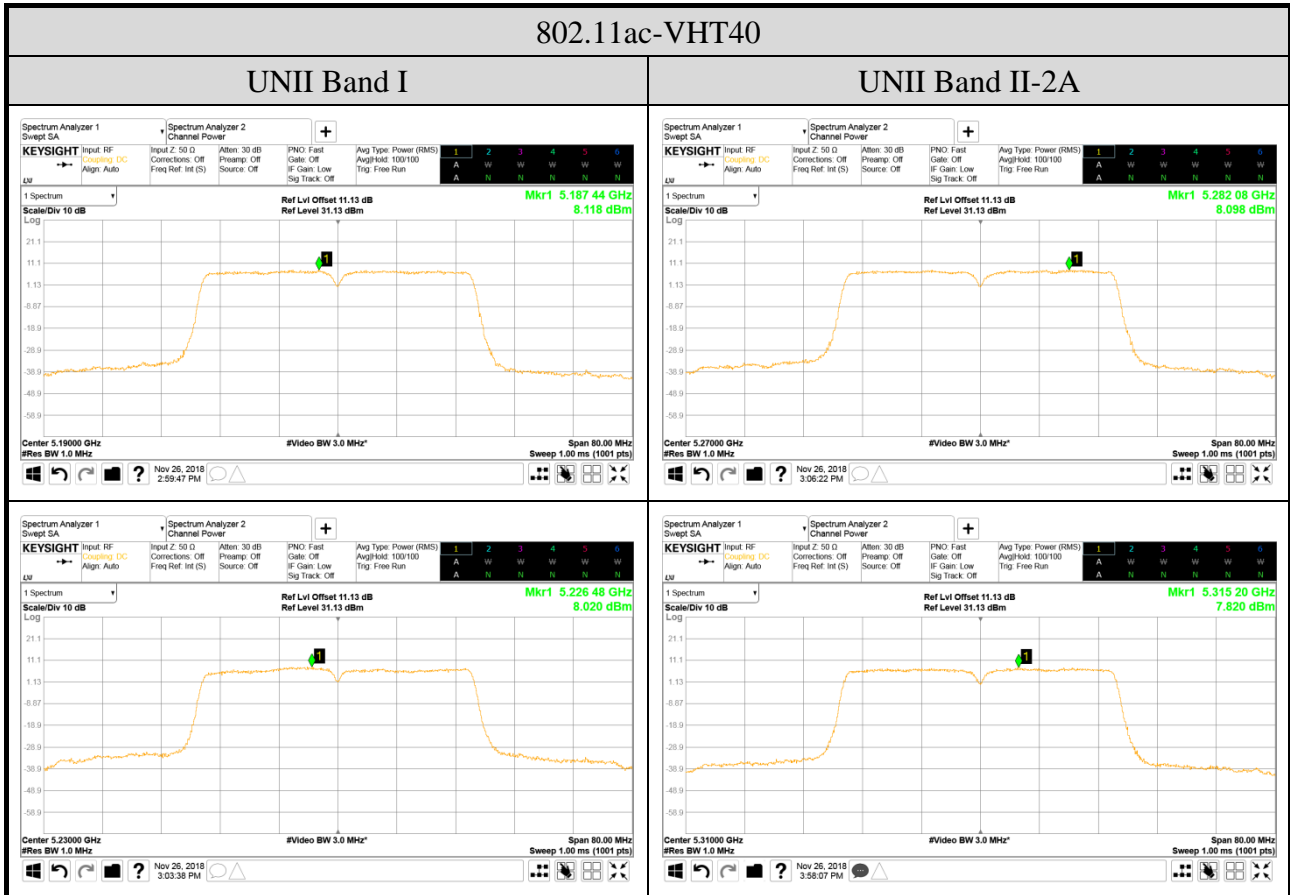
Cable Loss	Band I & II-2A: 3.48dB	Duty Cycle Factor	0.98dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



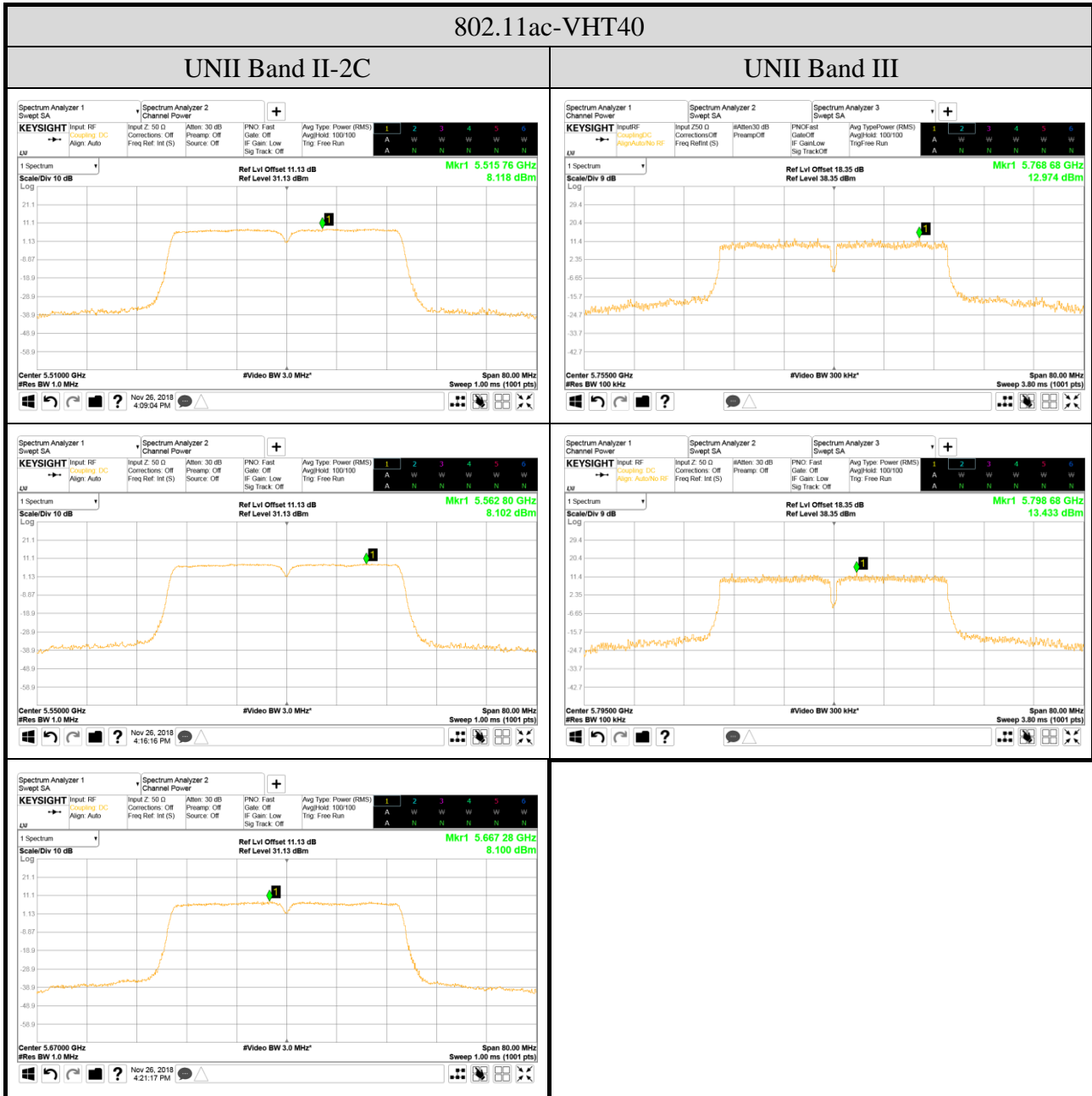
Cable Loss	Band II-2C: 3.48dB Band III: 3.7dB	Duty Cycle Factor	0.98dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



Cable Loss	Band I & II-2A: 3.48dB	Duty Cycle Factor	1.63dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



Cable Loss	Band II-2C: 3.48dB Band III: 3.7dB	Duty Cycle Factor	1.63dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02

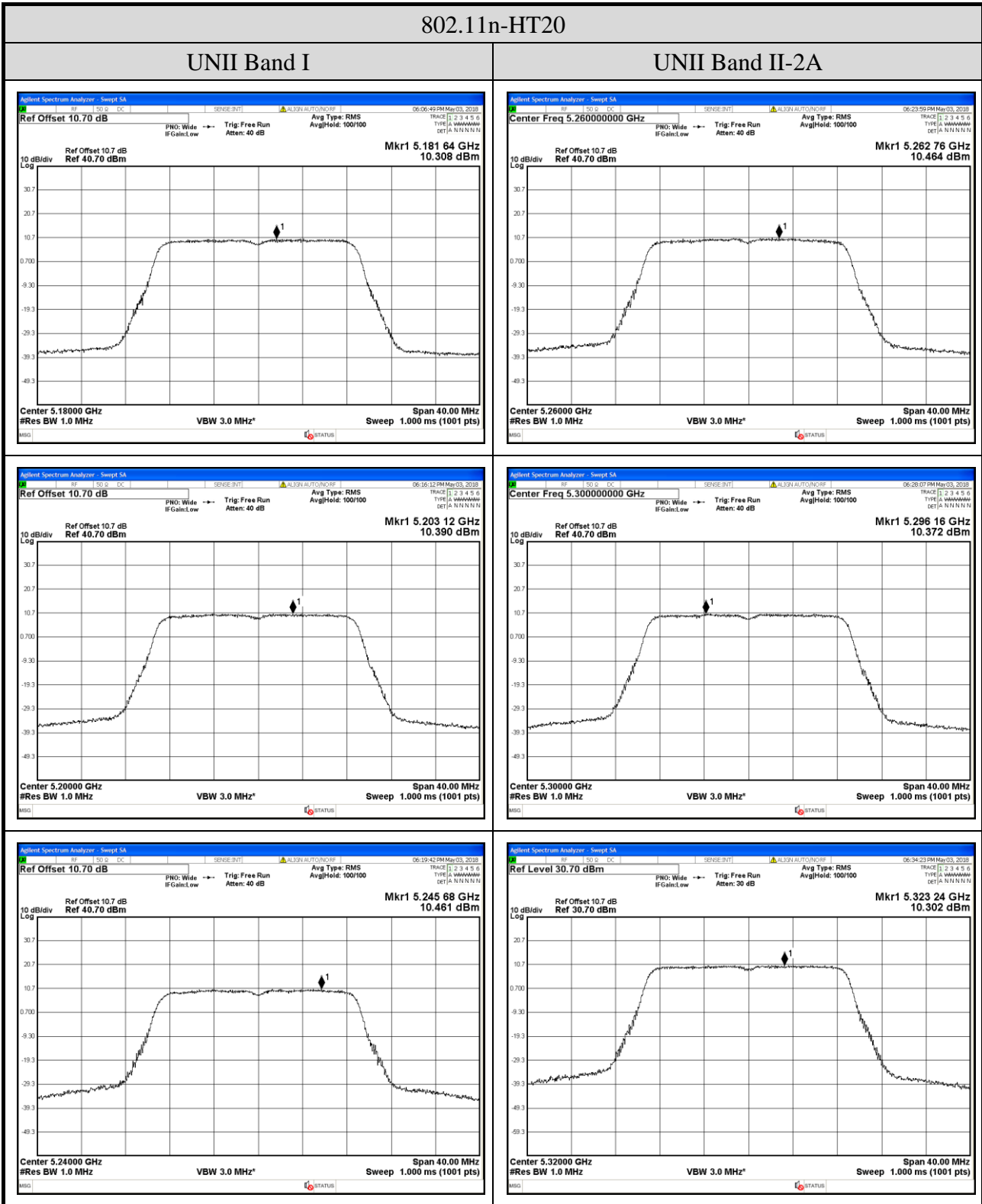


Cable Loss	Band I & II-2A & II-2C: 3.48dB Band III: 3.7dB	Duty Cycle Factor	2.38dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02

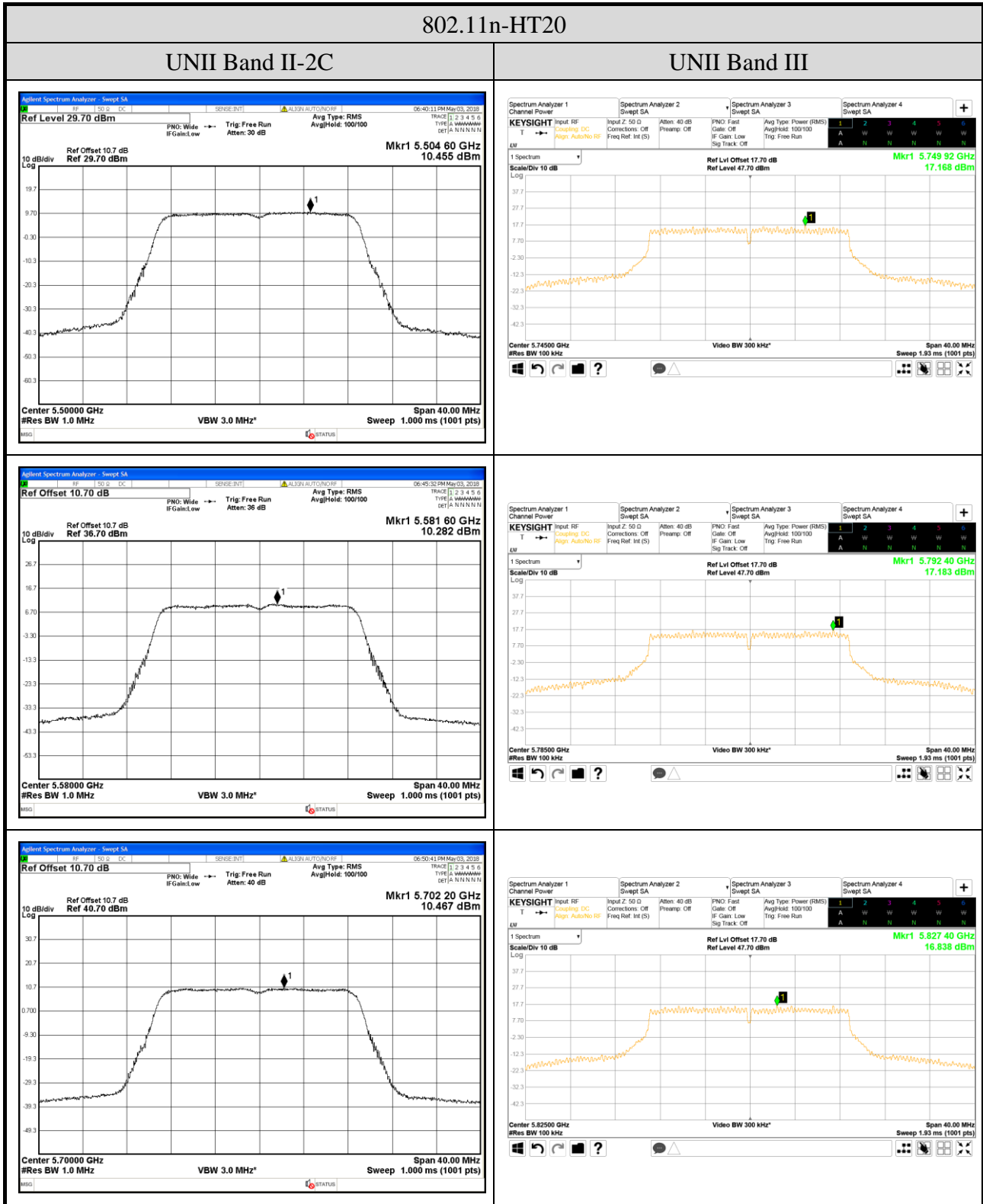


● SDM Mode

Cable Loss	Band I & II-2A: 3.7dB	Duty Cycle Factor	0.98dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



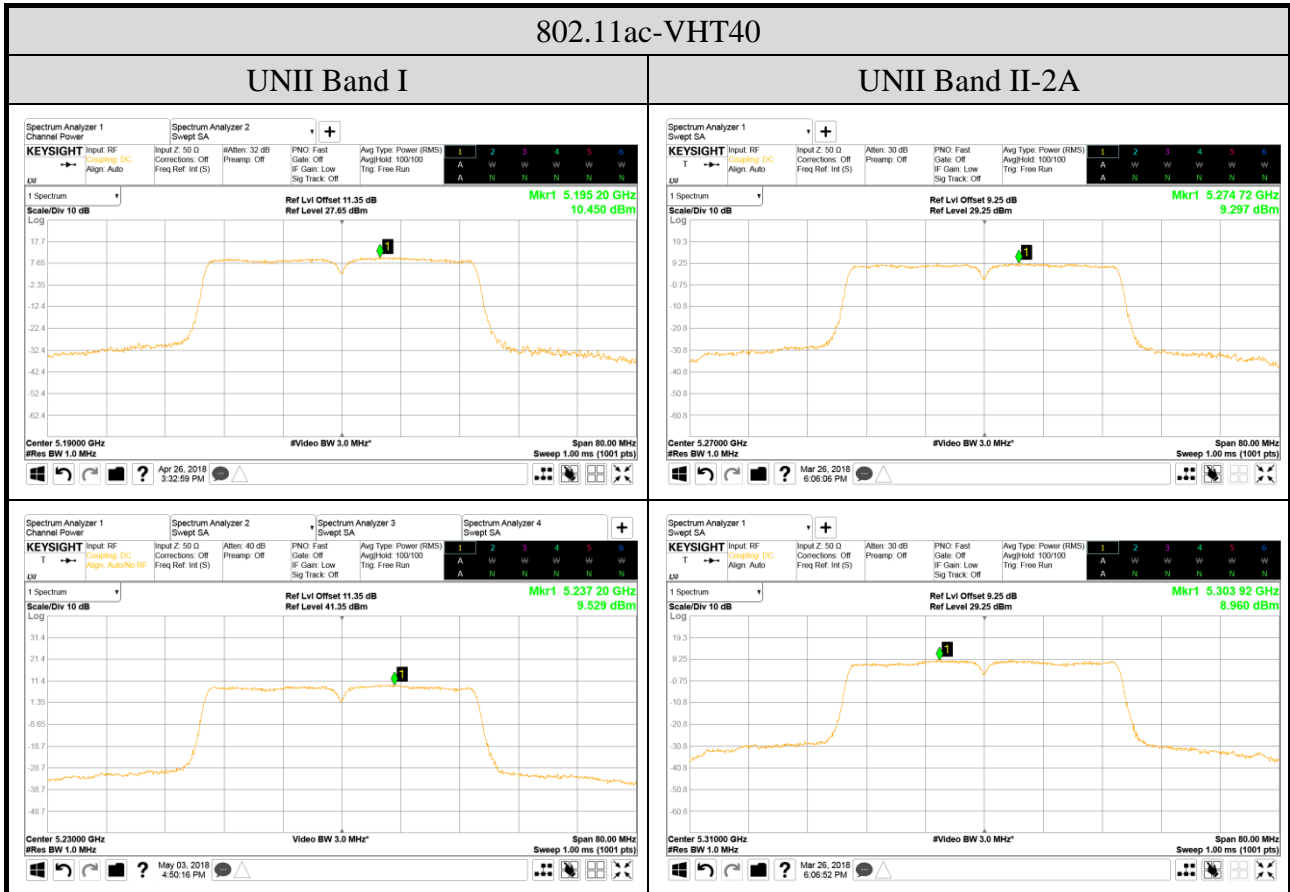
Cable Loss	Band II-2C & III: 3.7dB	Duty Cycle Factor	0.98dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



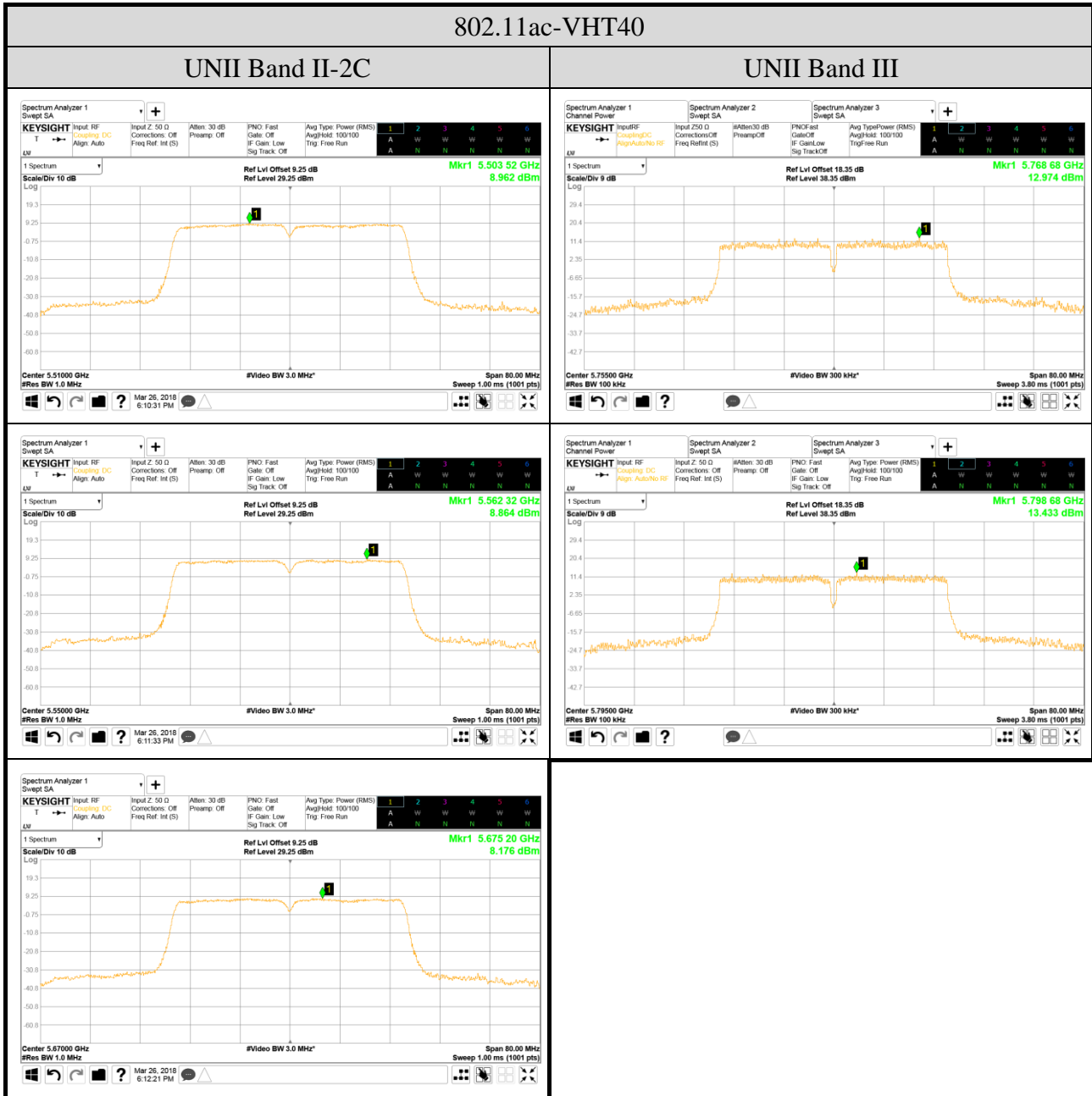
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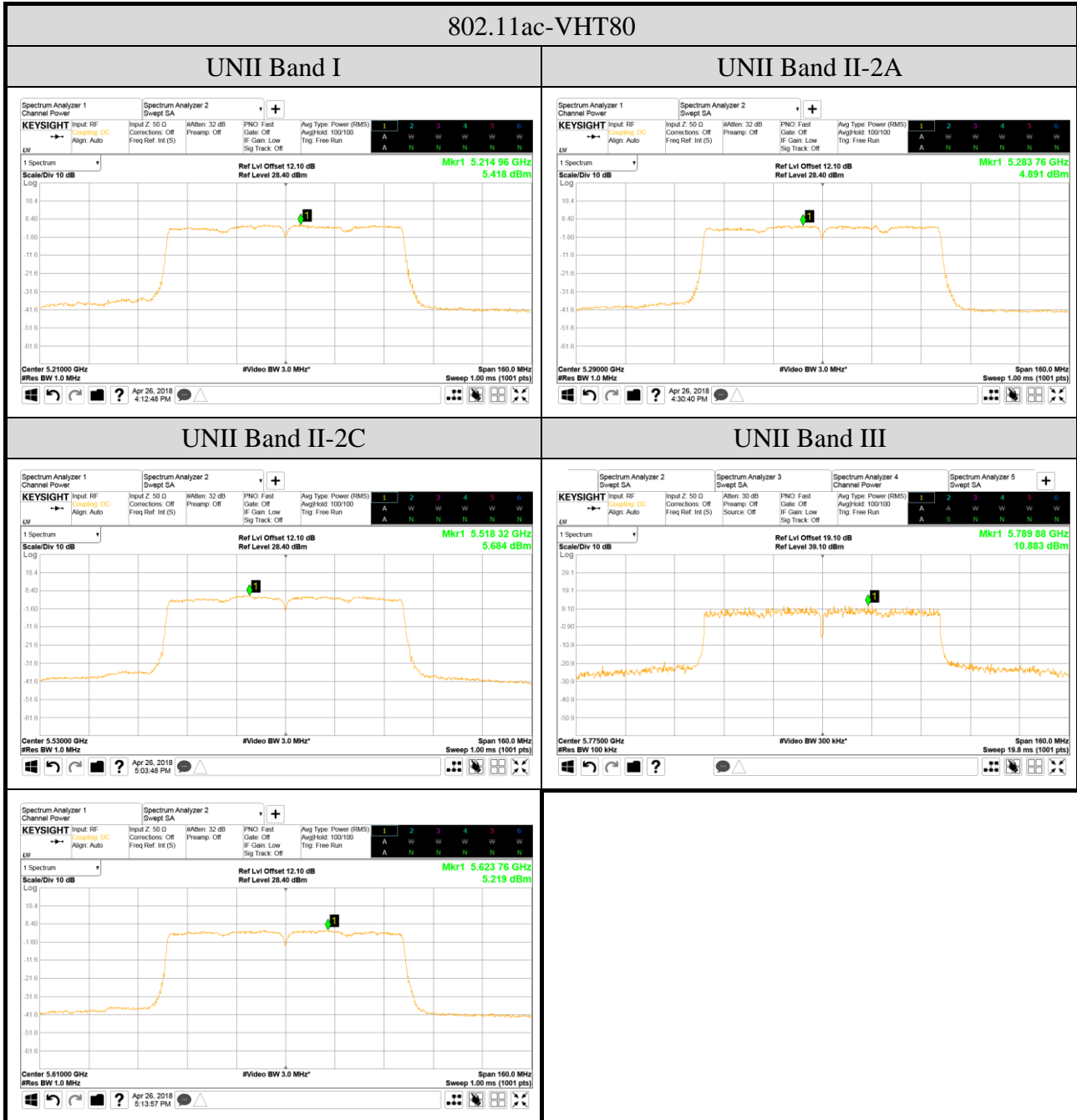
Cable Loss	Band I: 3.7dB Band II-2A: 1.6dB	Duty Cycle Factor	1.63dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



Cable Loss	Band II-2C: 1.6dB Band III: 3.7dB	Duty Cycle Factor	1.63dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



Cable Loss	Band I & II-2A & II-2C & III: 3.7dB	Duty Cycle Factor	2.38dB
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			6.02



A.7 FREQUENCY STABILITY

Test Date	2018/04/24	Temp./Hum.	24°C/55%
Cable Loss	---	Test Voltage	AC 120V, 60Hz (via AC/DC Adapter)

A.7.1 Frequency stability Result

Temperature (°C)	Voltage (Vac)	Centre Frequency (MHz)	Measurement Value (MHz)	Frequency Stability (ppm)
25	120	5745	5745.011	1.915
-30	102		5744.994	-1.044
	138		5744.992	-1.393
-20	102		5745.020	3.481
	138		5744.983	-2.959
-10	102		5744.986	-2.437
	138		5745.014	2.437
0	102		5744.983	-2.959
	138		5744.995	-0.870
10	102		5744.991	-1.567
	138		5744.997	-0.522
20	102		5744.979	-3.655
	138		5745.006	1.044
30	102		5745.009	1.567
	138		5745.007	1.218
40	102		5745.019	3.307
	138		5745.016	2.785
50	102		5745.002	0.348
	138		5745.022	3.829



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APPDNDIX B

TEST PHOTOGRAPHS

(Model: Kamai 7B)