

Audix Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	I
Cable Loss	3dB	Frequency	TX 5190MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
			3



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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	I
Cable Loss	3dB	Frequency	TX 5230MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
			3



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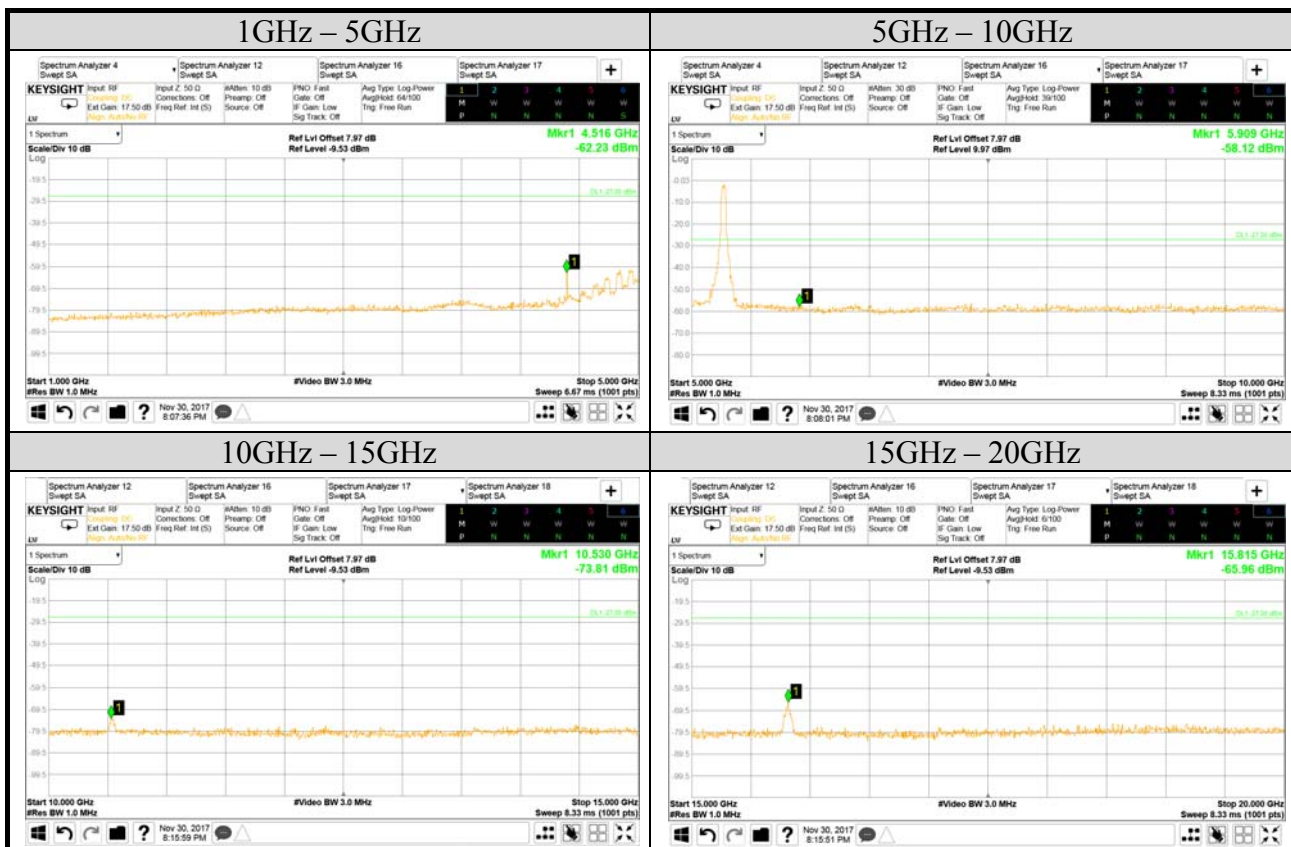
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	II-2A
Cable Loss	3dB	Frequency	TX 5270MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
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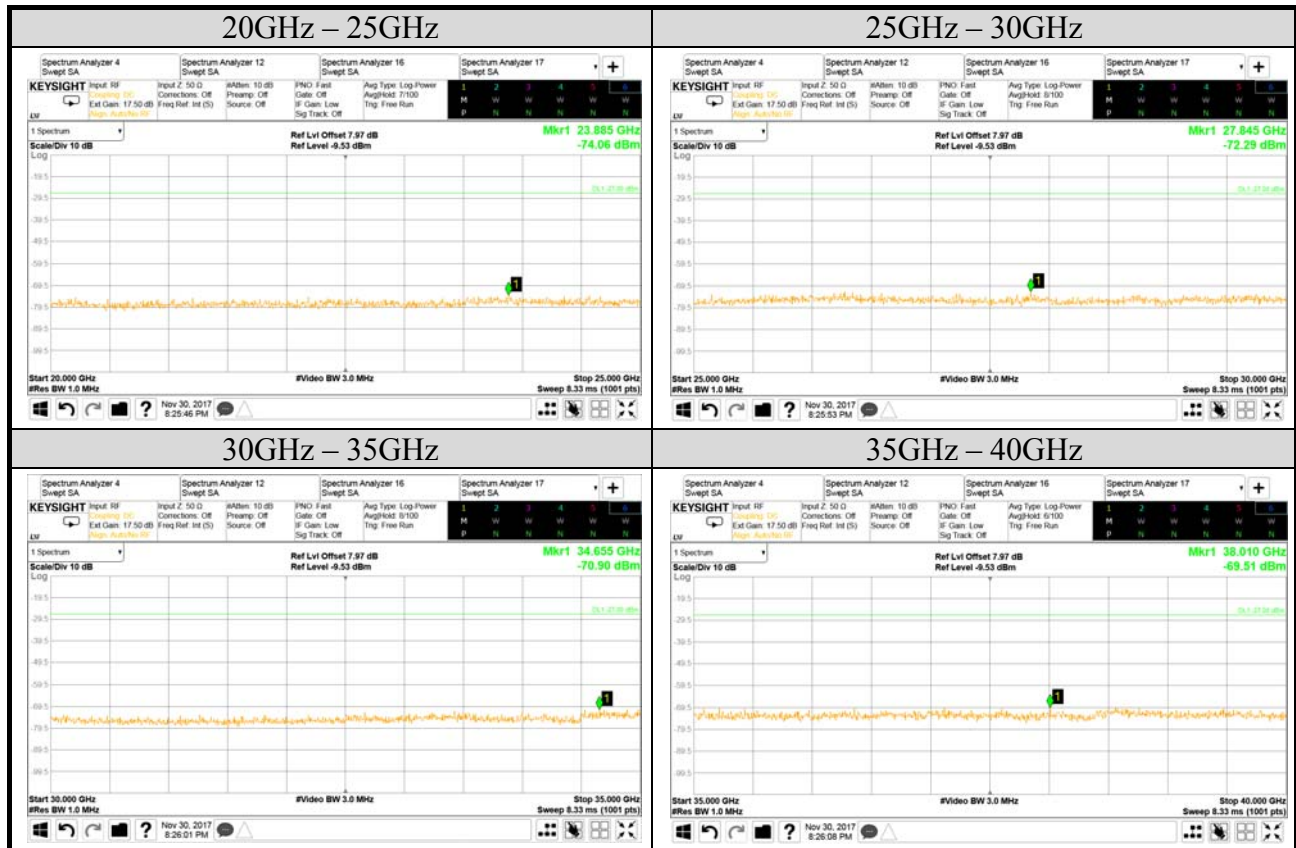
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	II-2A
Cable Loss	3dB	Frequency	TX 5310MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	II-2C
Cable Loss	3dB	Frequency	TX 5510MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	II-2C
Cable Loss	3dB	Frequency	TX 5550MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	II-2C
Cable Loss	3dB	Frequency	TX 5670MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
			3



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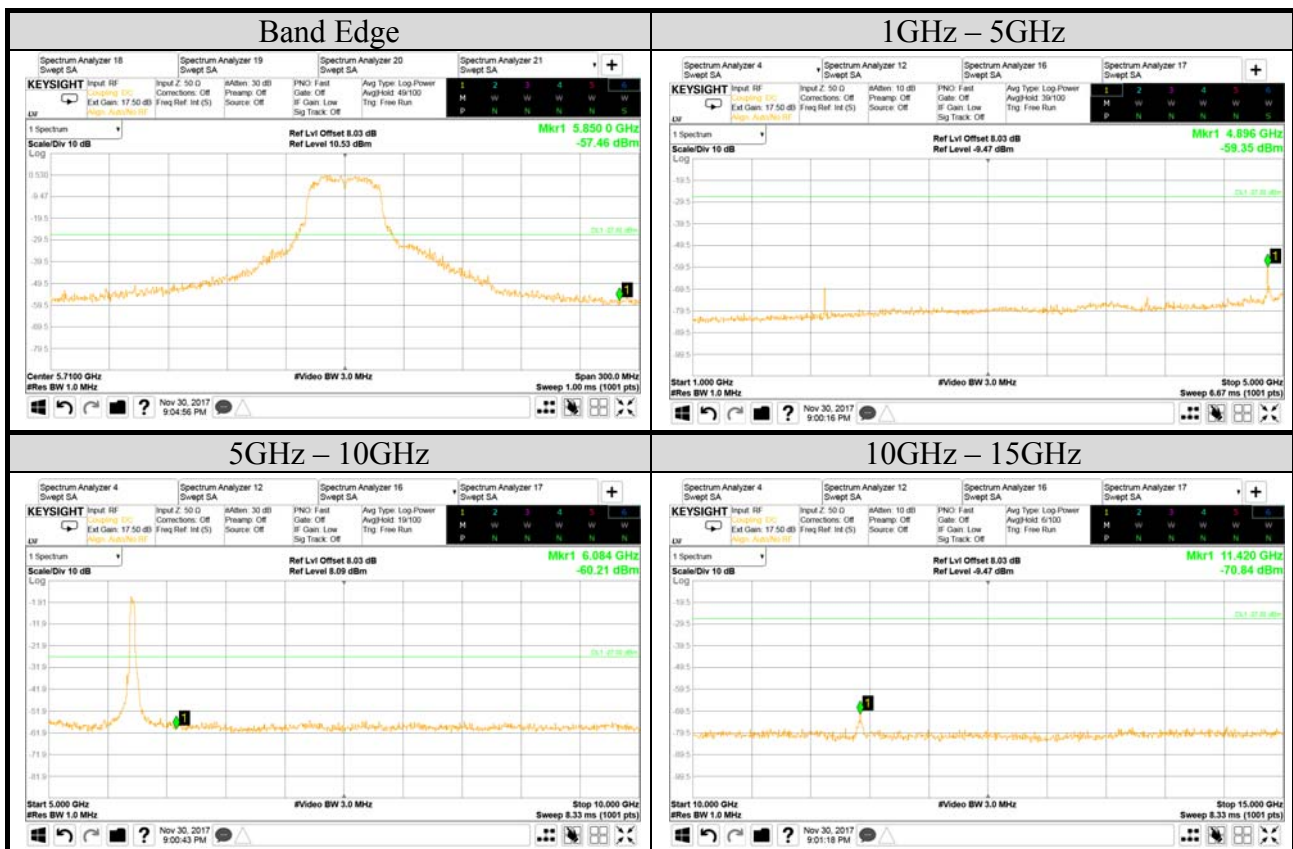
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	II-2C
Cable Loss	3dB	Frequency	TX 5710MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
			3

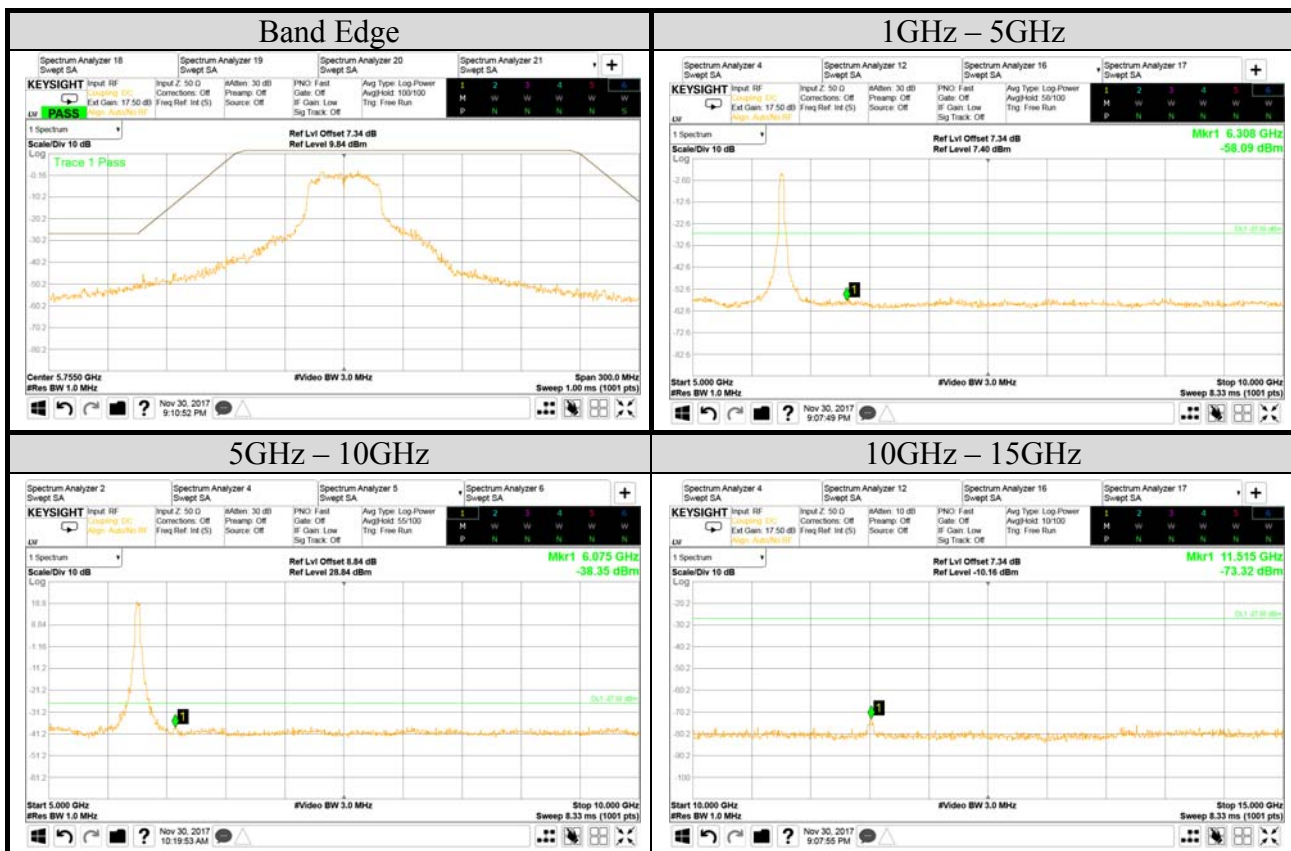




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Test Date	2017/11/29	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	III
		Frequency	TX 5755MHz
Cable Loss	3dB	Test Voltage	AC 120V/60HZ (via AC Adapter)
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)			3





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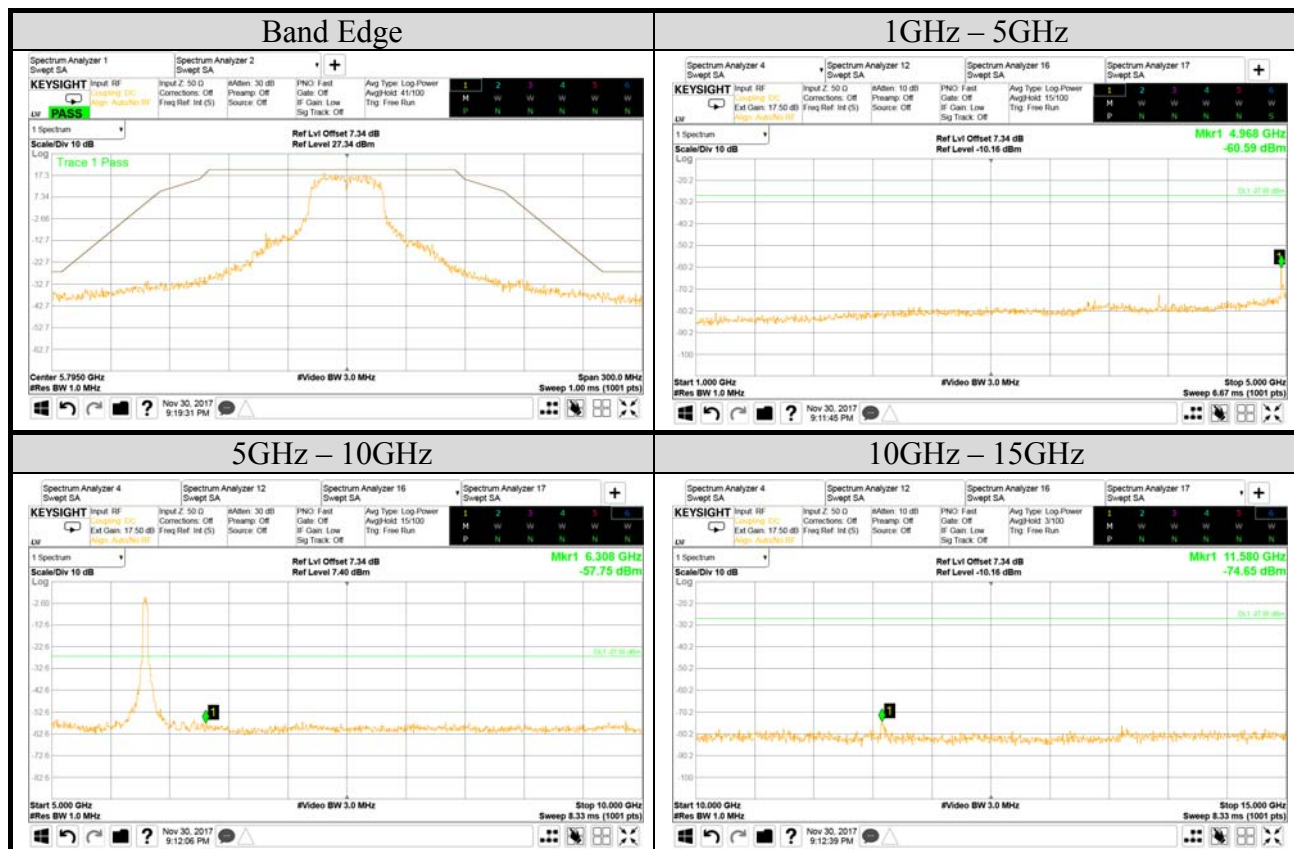
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	III
		Frequency	TX 5795MHz
Cable Loss	3dB	Test Voltage	AC 120V/60HZ (via AC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			0

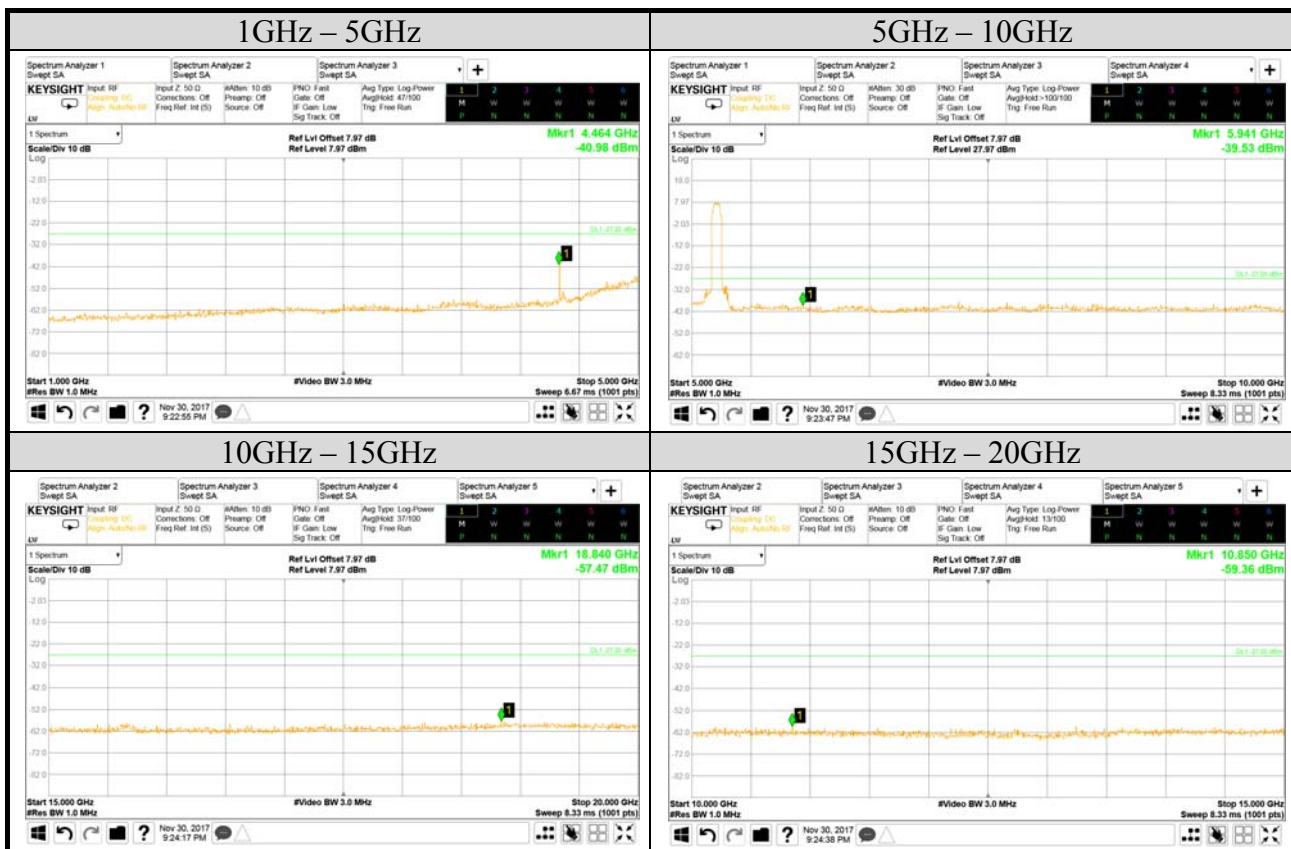




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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11ac-VHT80	UNII Band	I
Cable Loss	3dB	Frequency	TX 5210MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
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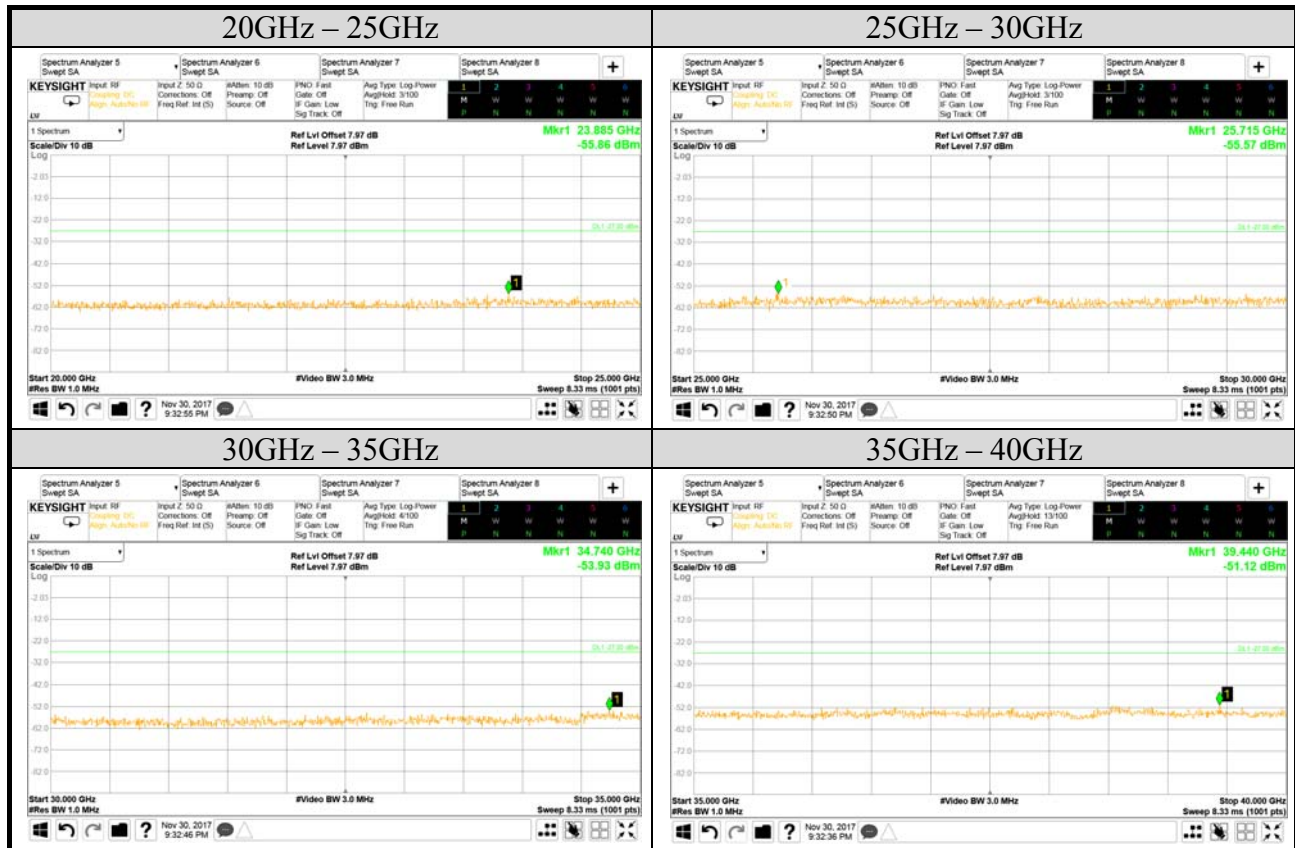
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11ac-VHT80	UNII Band	II-2A
Cable Loss	3dB	Frequency	TX 5290MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11ac-VHT80	UNII Band	II-2C
Cable Loss	3dB	Frequency	TX 5530MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	AC 120V/60HZ (via AC Adapter)
			3



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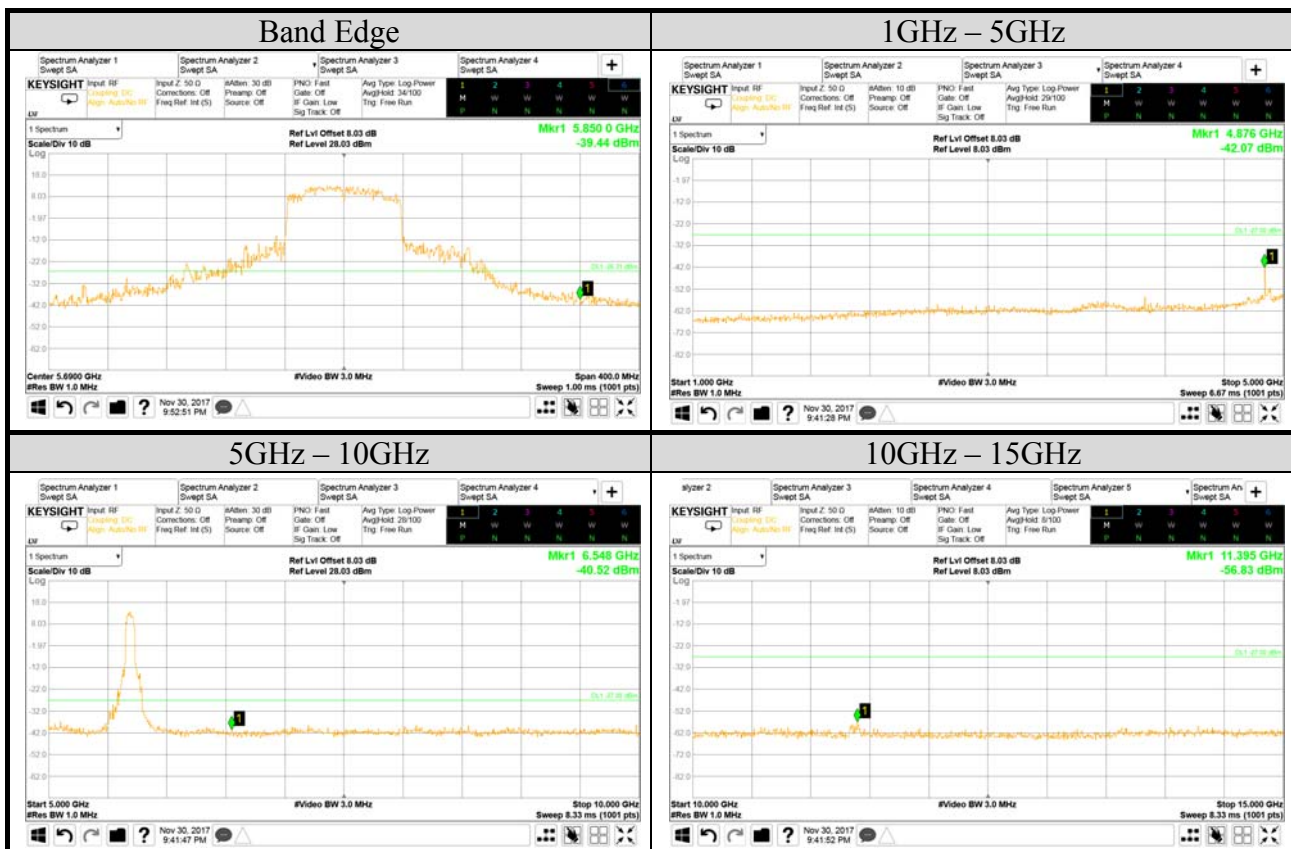
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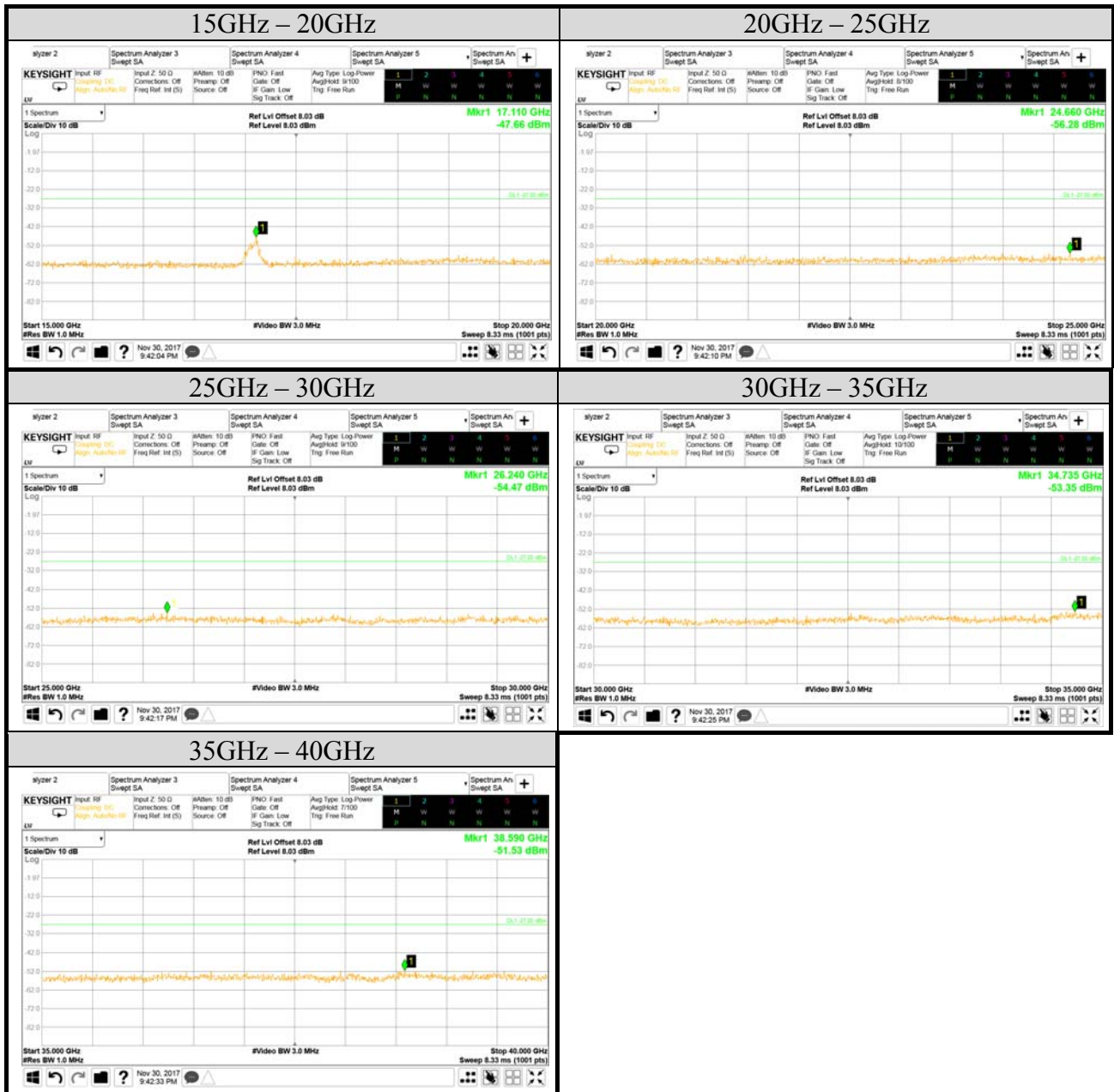
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11ac-VHT80	UNII Band	II-2C
Cable Loss	3dB	Frequency	TX 5690MHz
Simultaneous Factor 10 log(n) (Note: “n” is antenna number)	3		
Test Voltage	AC 120V/60HZ (via AC Adapter)		



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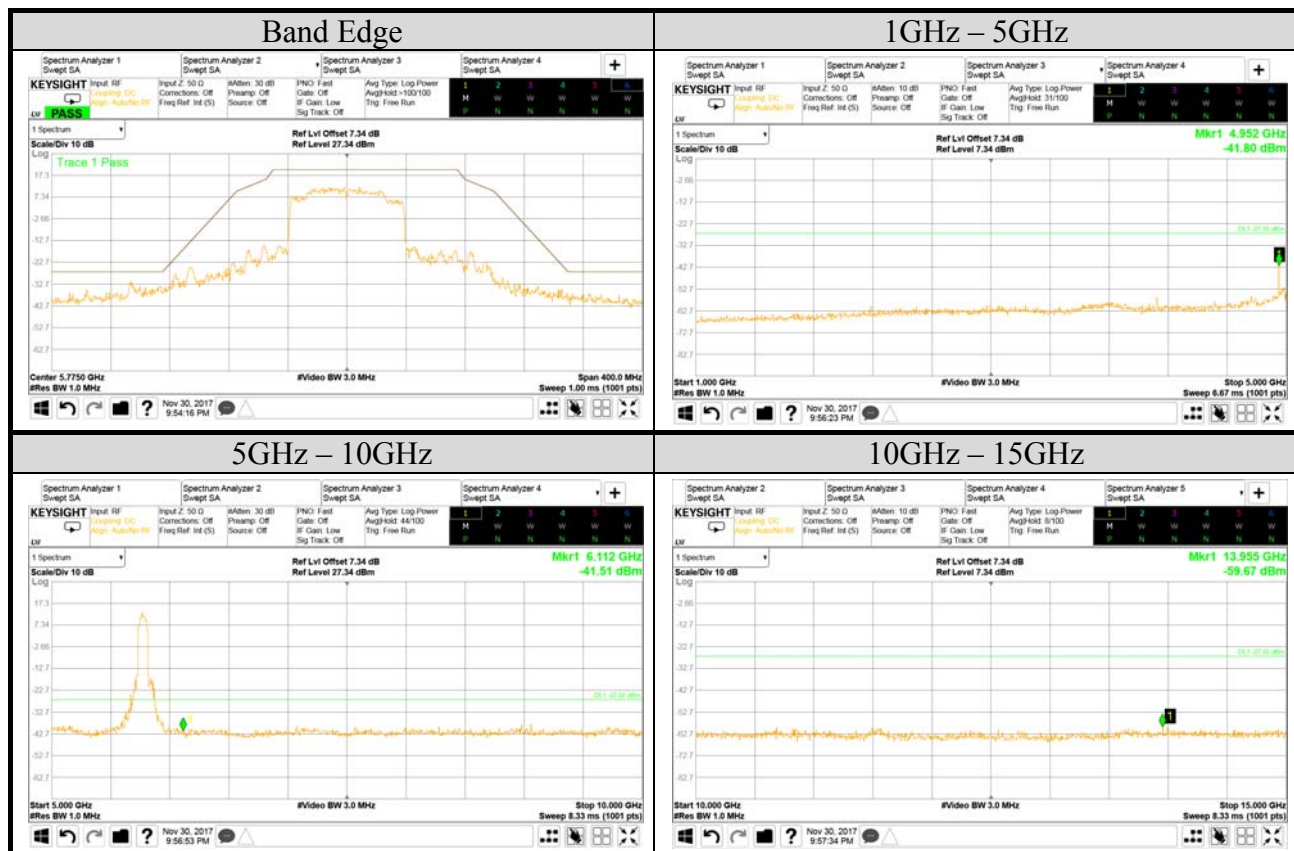
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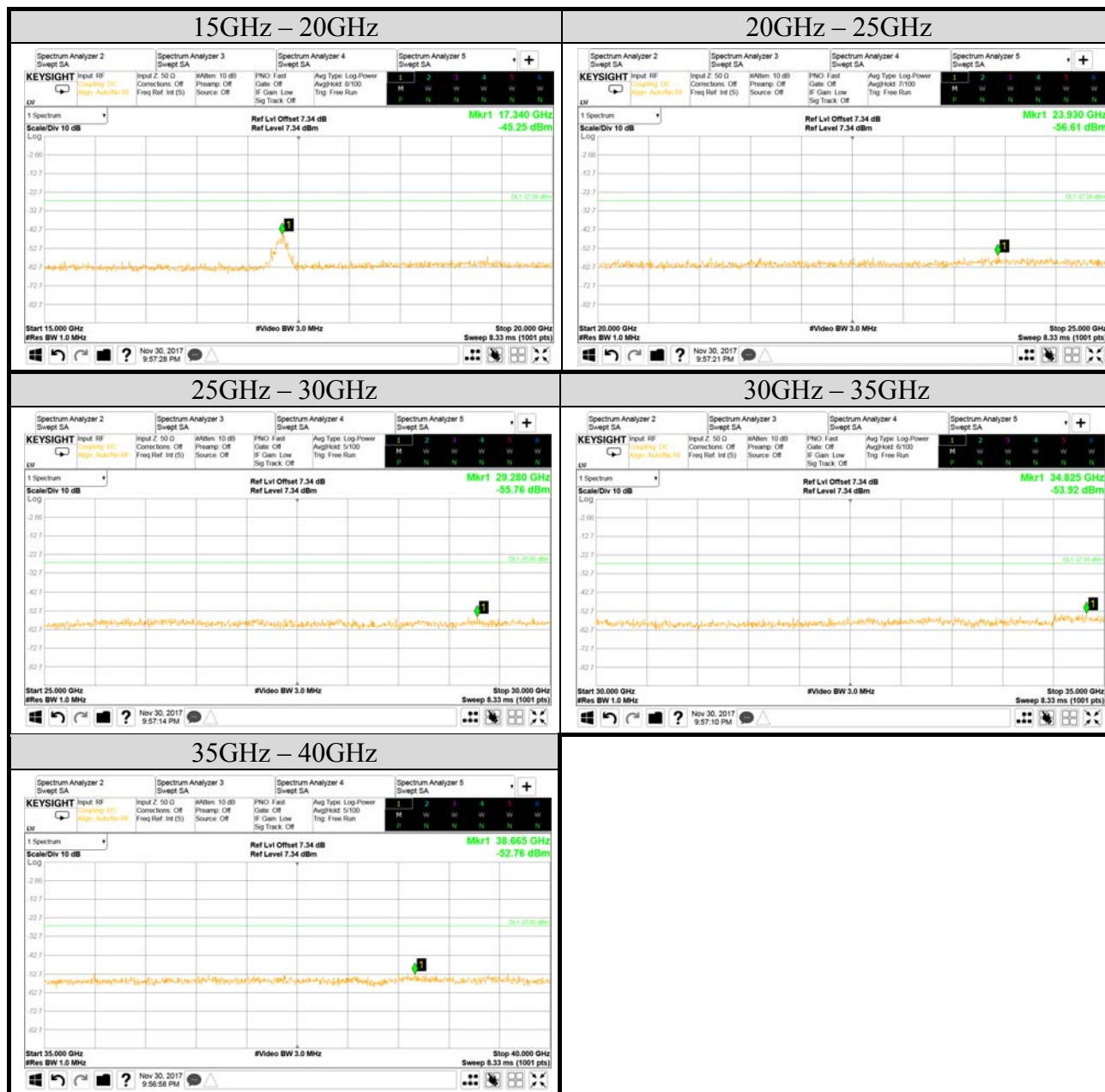
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Test Date	2017/11/30	Temp./Hum.	25°C/55%
Mode	802.11ac-VHT80	UNII Band	III
		Frequency	TX 5775MHz
Cable Loss	3dB	Test Voltage	AC 120V/60HZ (via AC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			3





A.6 POWER SPECTRAL DENSITY

Test Date	2017/11/28 ~ 29	Temp./Hum.	25°C/55%
Cable Loss	3dB	Test Voltage	AC 120V, 60Hz (Via AC Adapter)
Simultaneous Factor $10 \log(n)$ (Note: "n" is antenna number)			0 for 802.11a, 0 for 802.11n-HT20/40 and 802.11ac-VHT80

A.6.1 Power Spectral Density Result

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Antenna Gain (dBi)	Total Power Spectral Density (dBm)	Limit
802.11a	I	5180	4.628	1.97	6.598	10dBm/MHz (E.I.R.P.)
		5200	5.398		7.368	
		5240	6.057		8.027	

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	II	5260	7.346	11 dBm/MHz
		5300	6.798	
		5320	2.622	
	III	5500	3.536	
		5580	6.266	
		5700	5.361	
		5720	7.150	
	IV ^{Note2}	5720	4.038	30dBm/500 kHz
		5745	5.926	
		5785	6.475	
		5825	6.379	

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

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Antenna Gain (dBi)	Total Power Spectral Density (dBm)	Limit
802.11n-HT20	I	5180	6.814	1.97	8.784	10dBm/MHz (E.I.R.P.)
		5200	6.604		8.574	
		5240	6.491		8.461	

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT20	II	5260	10.380	11 dBm/MHz
		5300	10.007	
		5320	7.517	
	III	5500	10.182	
		5580	9.390	
		5700	5.961	
		5720	6.522	
	IV ^{Note2}	5720	2.286	30dBm/500 kHz
		5745	8.711	
		5785	8.860	
		5825	8.319	

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

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Antenna Gain (dBi)	Total Power Spectral Density (dBm)	Limit
802.11n-HT40	I	5190	2.944	1.97	4.914	10dBm/MHz (E.I.R.P.)
		5230	6.092		8.062	

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11n-HT40	II	5270	7.332	11 dBm/MHz
		5310	0.252	
	III	5510	3.093	
		5550	6.167	
		5670	5.707	
		5710	7.025	
	IV ^{Note2}	5710	1.900	30dBm/500 kHz
		5755	6.645	
		5795	6.431	

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

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Antenna Gain (dBi)	Total Power Spectral Density (dBm)	Limit
802.11ac-VHT80	I	5210	-1.051	1.97	0.919	10dBm/MHz (E.I.R.P.)

Modulation Type	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11ac-VHT80	II	5290	-2.854	11 dBm/MHz
	III	5530	-3.436	
		5690	4.342	
	IV	5690	1.671	30dBm/500 kHz
		5775	3.093	

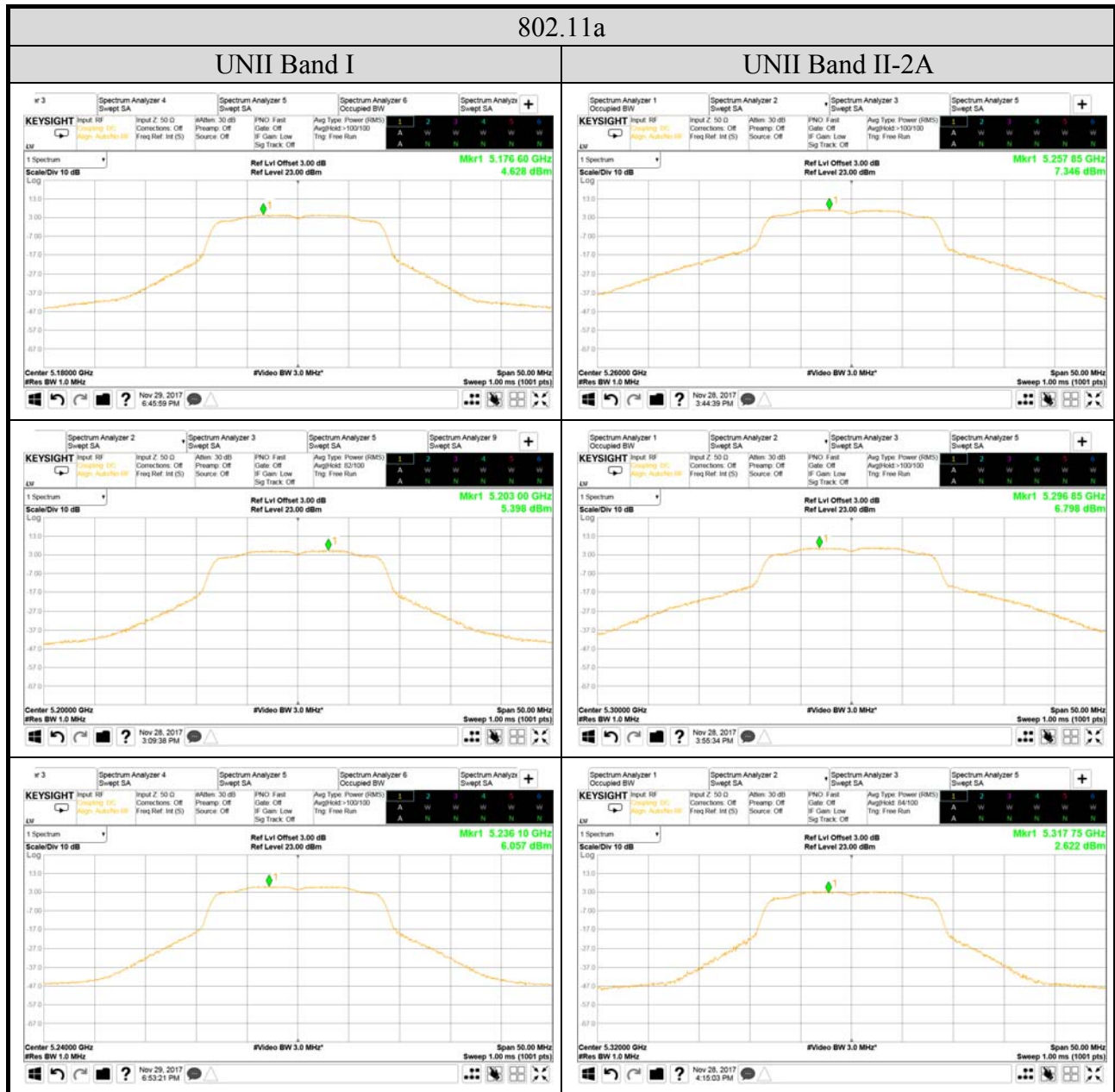
Note 1: All results have been included cable loss and Simultaneous Factor.

Note 2: BWCF 6.99dB (100kHz converted to 500kHz) has been included in the test result.

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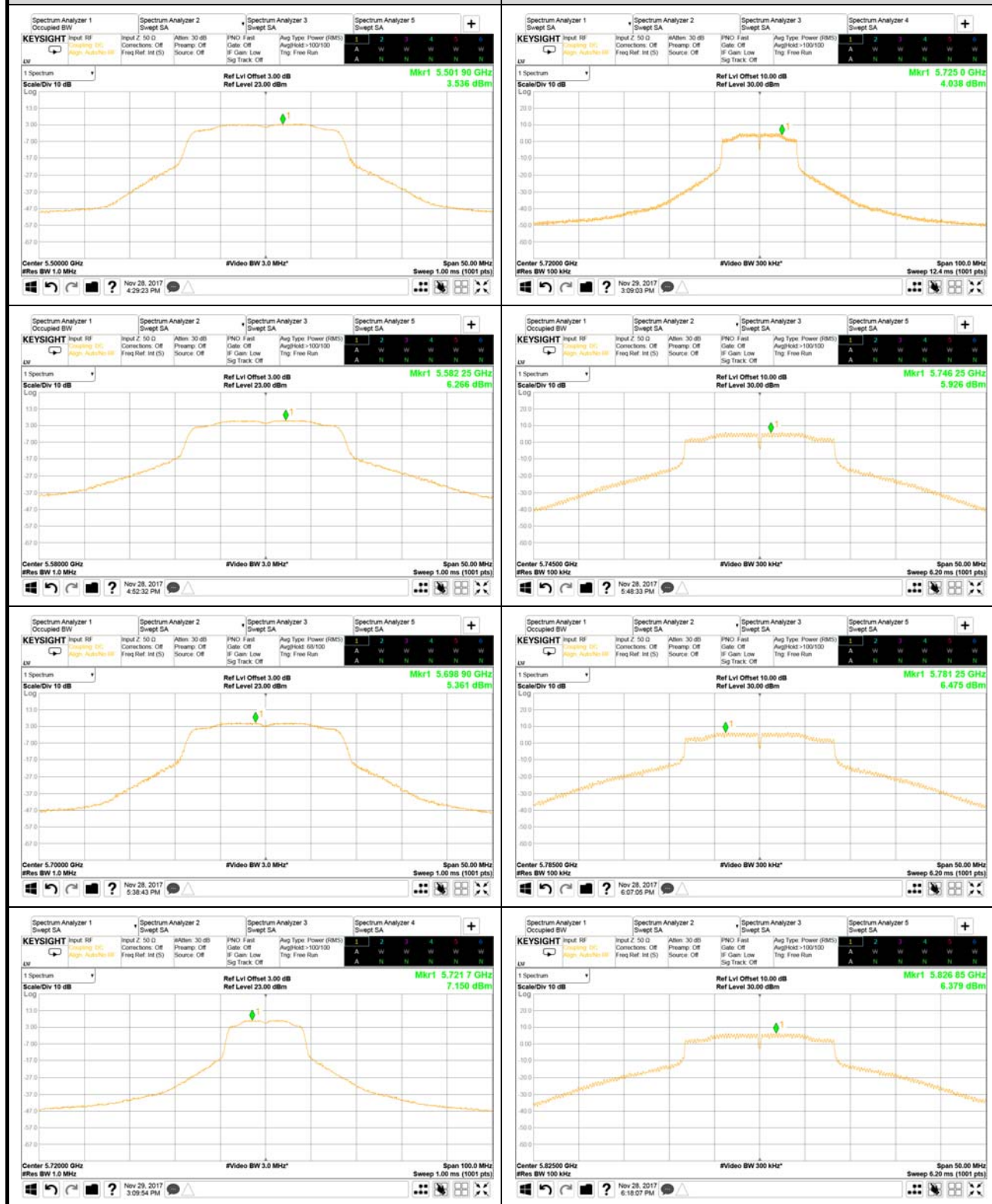
A.6.2 Measurement Plots



802.11a

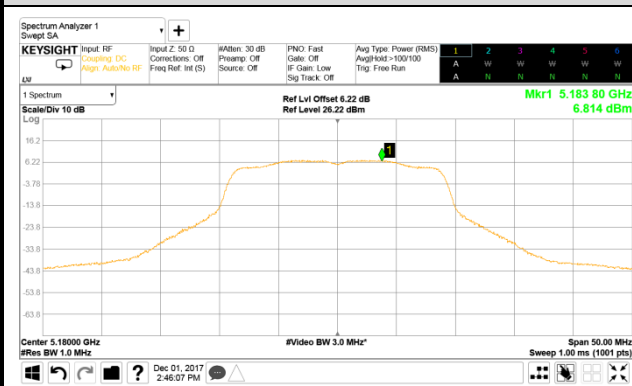
UNII Band II-2C

UNII Band III

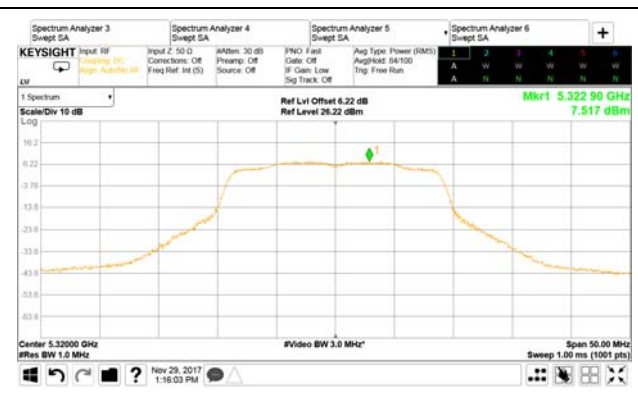
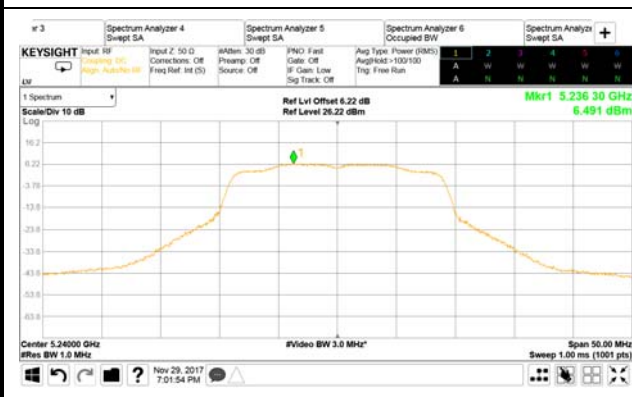
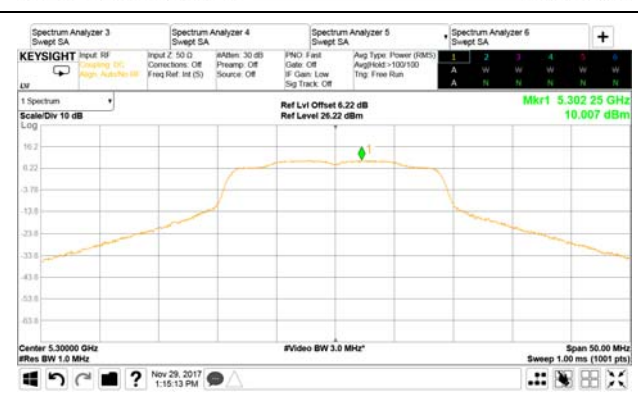
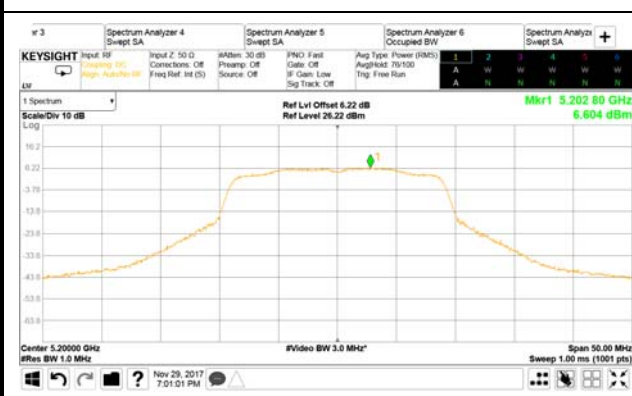
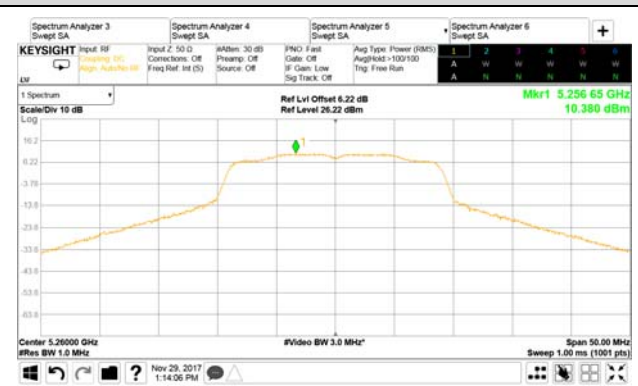


802.11n-HT20

UNII Band I

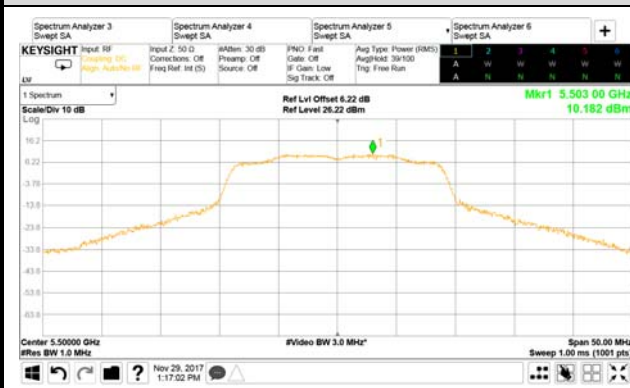


UNII Band II-2A

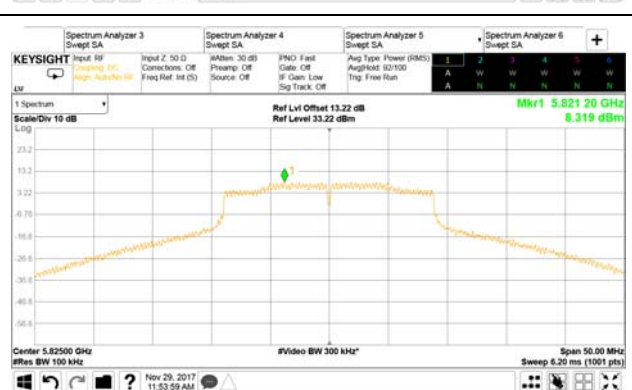
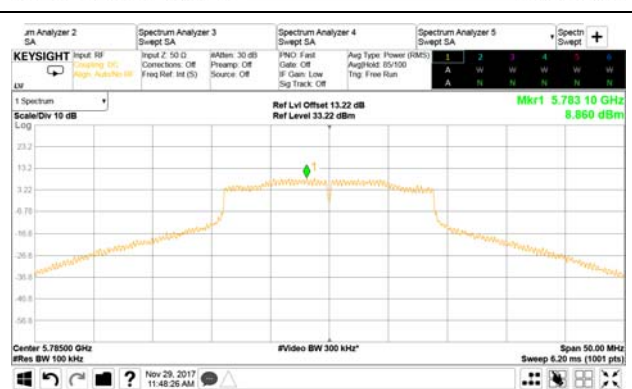
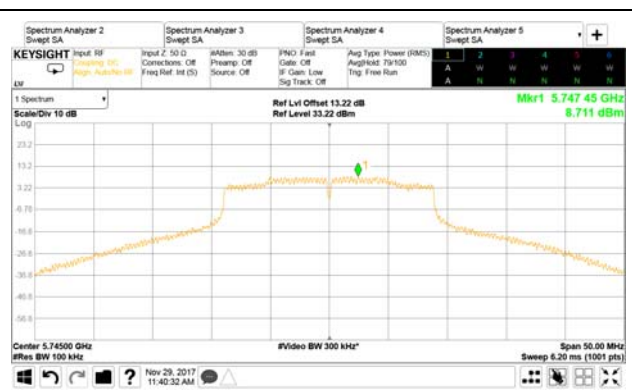
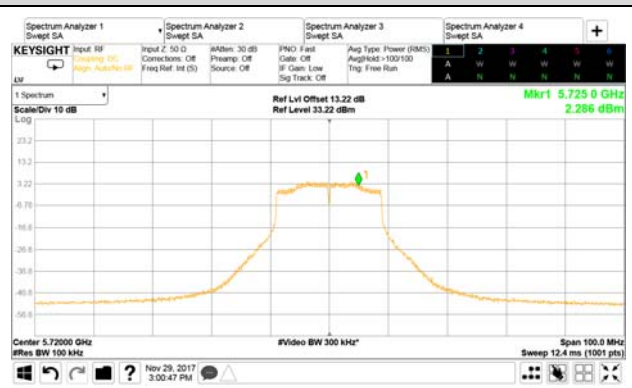


802.11n-HT20

UNII Band II-2C

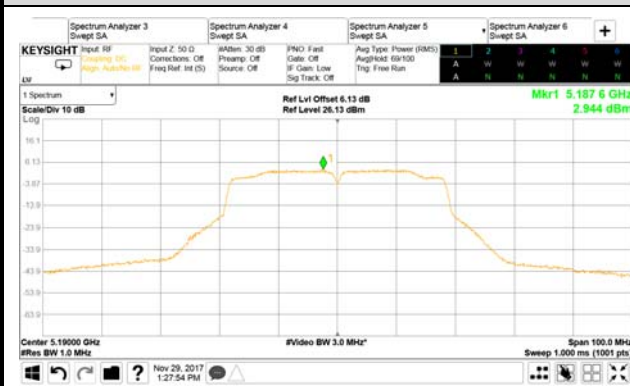


UNII Band III

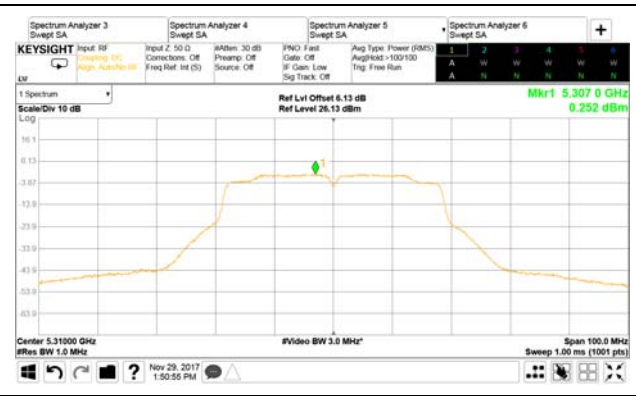
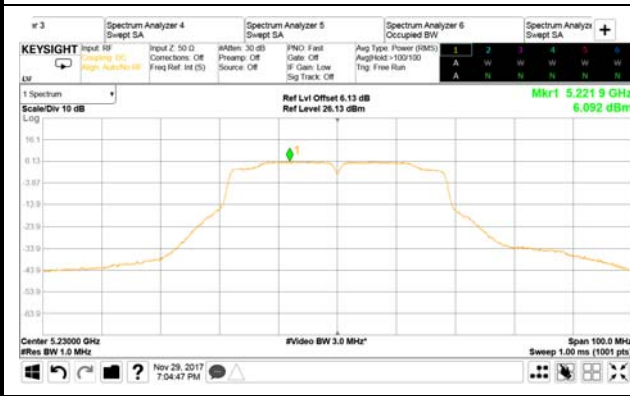
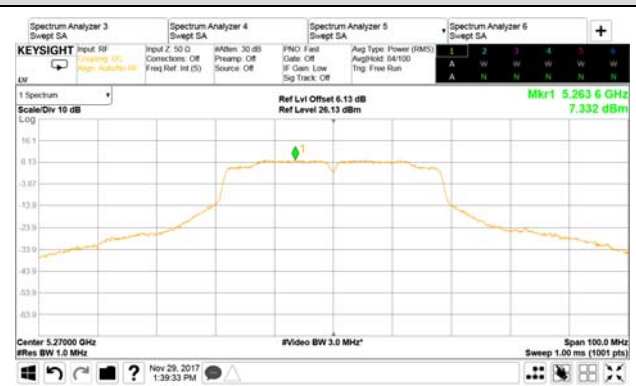


802.11n-HT40

UNII Band I

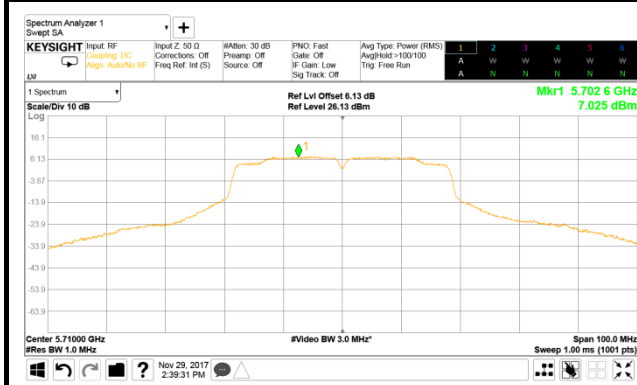
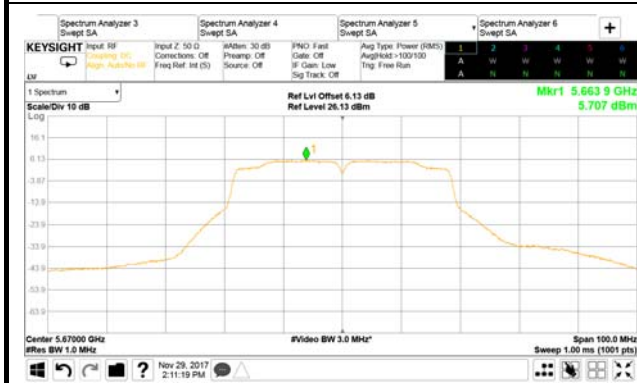


UNII Band II-2A

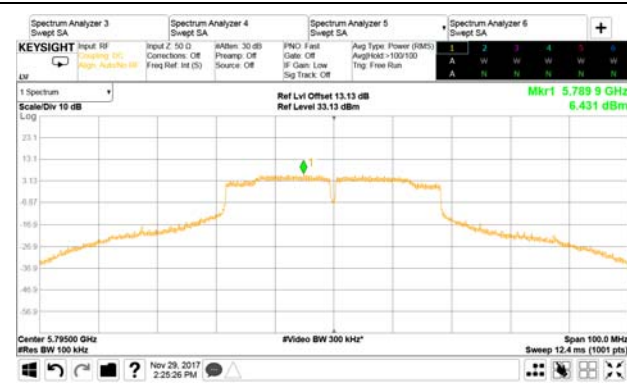
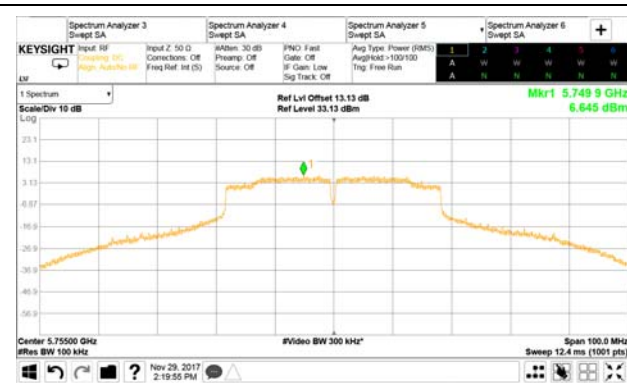


802.11n-HT40

UNII Band II-2C



UNII Band III

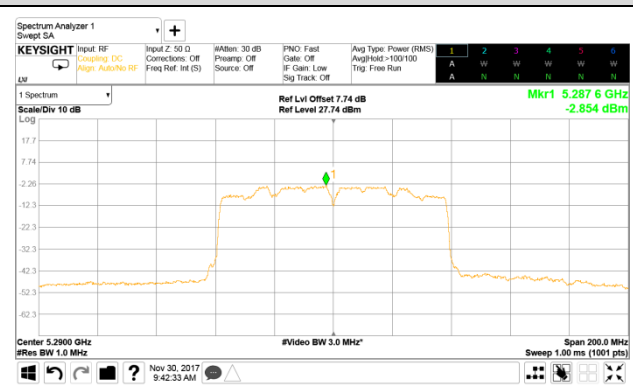


802.11ac-VHT80

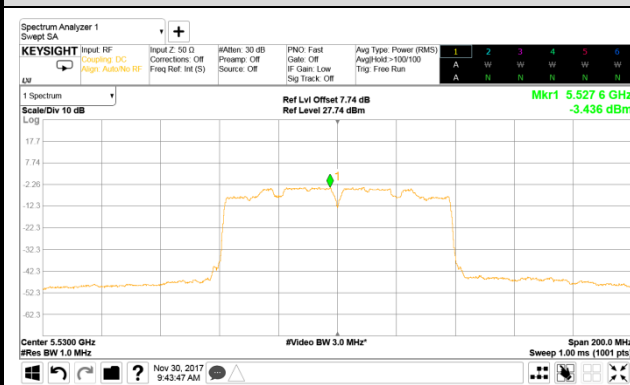
UNII Band I



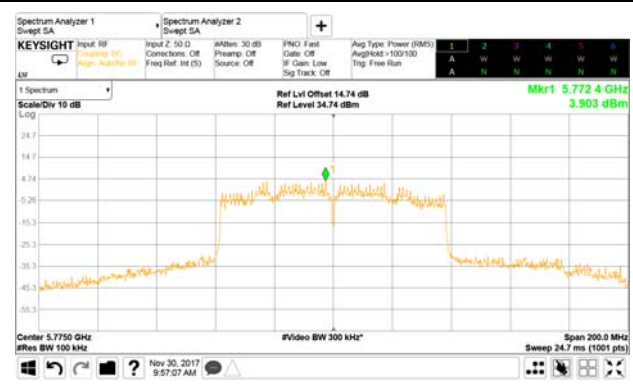
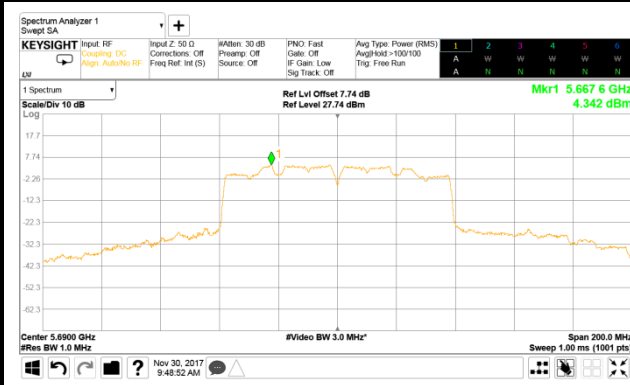
UNII Band II-2A



UNII Band II-2C



UNII Band III



A.7 FREQUENCY STABILITY

Test Date	2017/11/28	Temp./Hum.	25°C/55%
Cable Loss	---	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			0 for 802.11a, 0 for 802.11n-HT20/40 and 802.11ac-VHT80

A.7.1 Frequency stability Result

5180MHz					
Temperature(°C)	-30	-20	-10	0	25
Voltage (Vac)	138	138	138	138	120
Frequency(MHz)	5179.974	5179.988	5179.987	5180.006	5180.010
Frequency Stability (ppm)	-5.019	-2.317	-2.510	1.158	1.931
Temperature(°C)	-30	-20	-10	0	
Voltage (Vac)	102	102	102	102	
Frequency(MHz)	5179.969	5179.982	5179.995	5180.002	
Frequency Stability (ppm)	-5.985	-3.475	-0.965	0.386	
Temperature(°C)	50	40	30	20	10
Voltage (Vac)	138	138	138	138	138
Frequency(MHz)	5180.038	5180.037	5180.015	5180.019	5180.004
Frequency Stability (ppm)	7.336	7.143	2.896	3.668	0.772
Temperature(°C)	50	40	30	20	10
Voltage (Vac)	102	102	102	102	102
Frequency(MHz)	5180.054	5180.045	5180.025	5180.012	5180.009
Frequency Stability (ppm)	10.425	8.687	4.826	2.317	1.737



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APPENDIX B

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APPENDIX B

TEST PHOTOGRAPHS

(Model: 13Z980)