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A.3 EMISSIONBANDWIDTH

Test Date	2018/10/24 ~ 26	Temp./Hum.	23℃/55%
Cable Loss	Band I: 2.92dB Band II-2A/2C: 3.37dB Band III: 3.91dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

A.3.1 Emission Bandwidth Result

Mode	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz)	Limit
802.11a	I	5180	22.72	16.771	Reference only
		5200	38.76	19.972	
		5240	27.85	17.259	
	II-2A	5260	35.97	19.049	
		5300	29.89	17.816	
		5320	23.23	16.748	
	II-2C	5500	22.42	16.800	
		5580	33.71	18.362	
		5700	23.11	16.846	
802.11n-HT20	I	5180	22.67	17.849	Reference only
		5200	22.39	17.804	
		5240	22.99	17.862	
	II-2A	5260	22.93	17.850	
		5300	22.48	17.853	
		5320	23.38	17.996	
	II-2C	5500	23.94	17.865	
		5580	24.53	17.937	
		5700	23.85	17.898	
		5720	25.38	18.071	

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Mode	UNII Band	Centre Frequency (MHz)	26dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz)	Limit
802.11n-HT40	I	5190	43.68	36.372	Reference only
		5230	43.32	36.363	
	II-2A	5270	44.75	36.498	
		5310	42.13	36.299	
	II-2C	5510	43.72	36.433	
		5550	43.59	36.329	
		5670	42.79	36.390	
		5710	44.23	36.515	
802.11ac-VHT80	I	5210	81.25	74.978	Reference only
	II-2A	5290	81.83	75.120	
	II-2C	5530	83.12	75.153	
		5610	83.59	75.089	
		5690	89.33	75.254	
802.11ac-VHT160	I	5250	160.9	153.15	Reference only
	II-2C	5570	161.6	152.97	

Mode	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	99%Occupied Bandwidth (MHz)	Limit
802.11a	III	5745	16.36	20.893	≥ 500kHz
		5785	16.41	20.185	
		5825	16.37	20.395	
802.11n-HT20	III	5745	17.65	17.752	
		5785	17.63	20.561	
		5825	17.59	20.740	
802.11n-HT40	III	5755	36.37	36.243	
		5795	36.37	36.378	
802.11ac-VHT80	III	5775	73.95	75.036	

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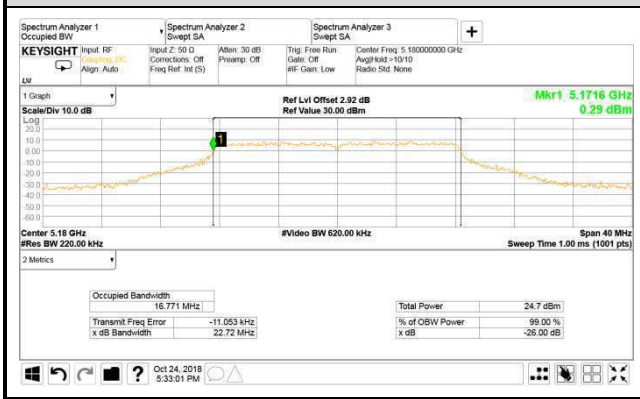
A.3.2 Measurement Plots

Mode: 802.11a	
UNII Band I	UNII Band II-2A



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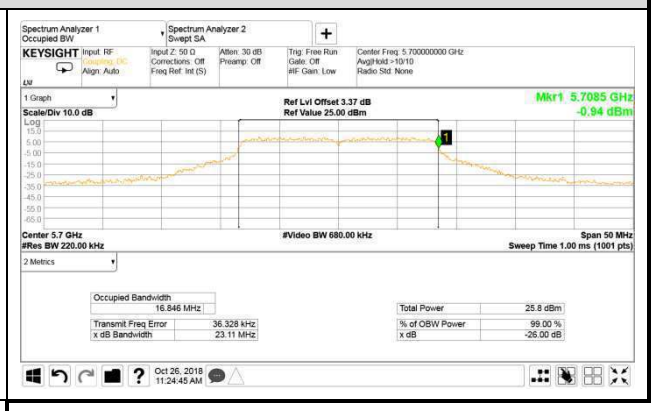
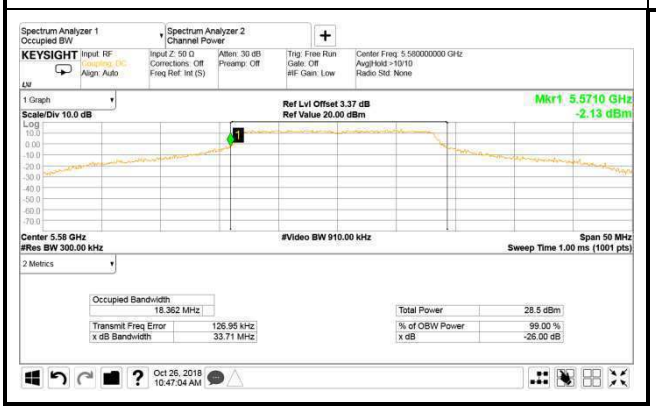
Mode: 802.11a
UNII Band II-2C





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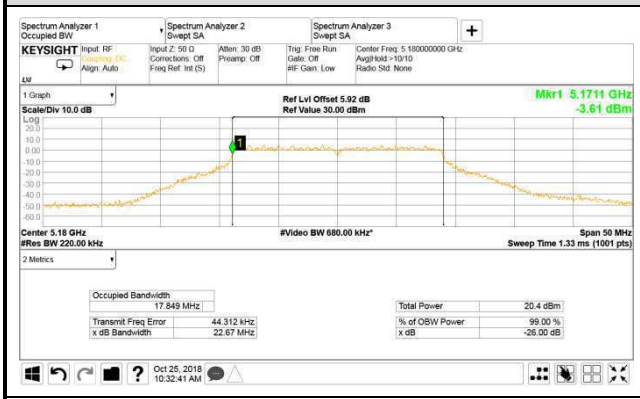
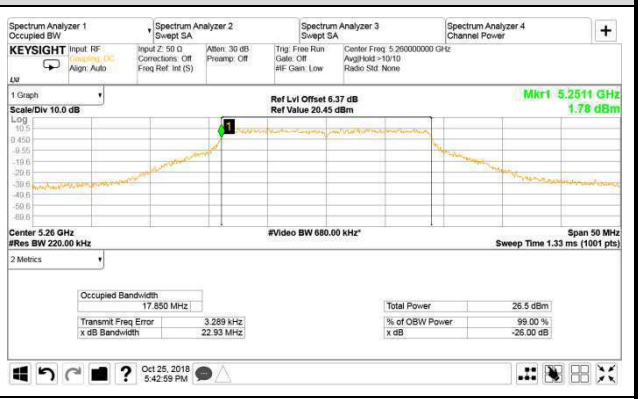
Mode: 802.11n-HT20	
UNII Band I	UNII Band II-2A





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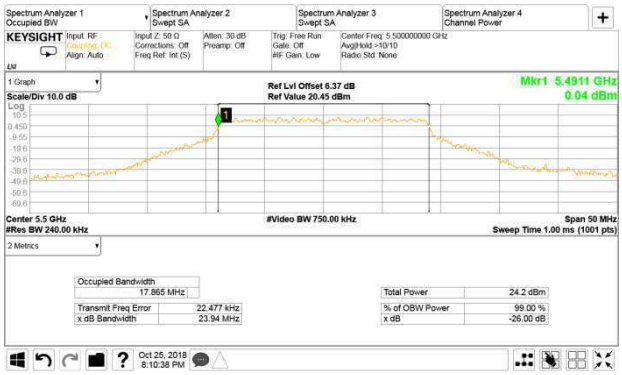
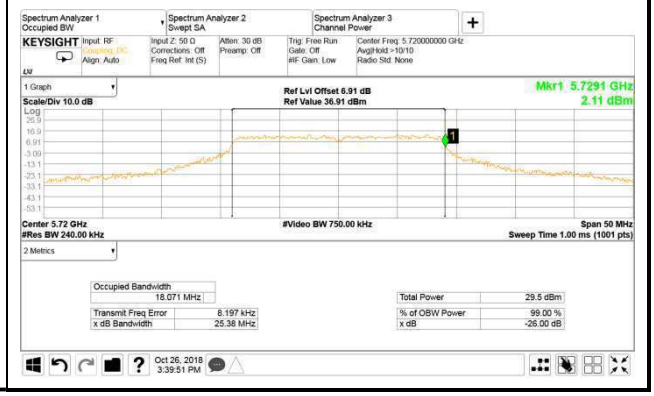
Mode: 802.11n-HT20	
UNII Band II-2C	





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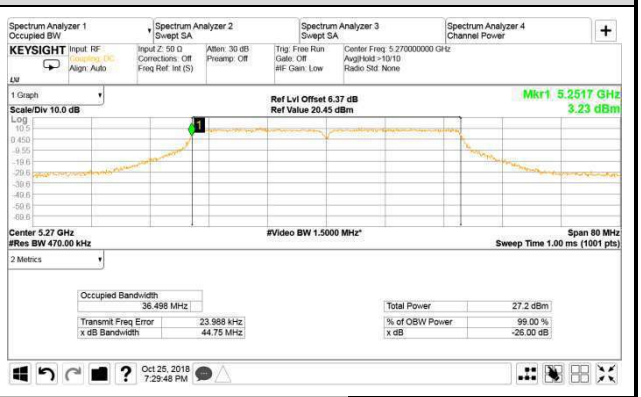
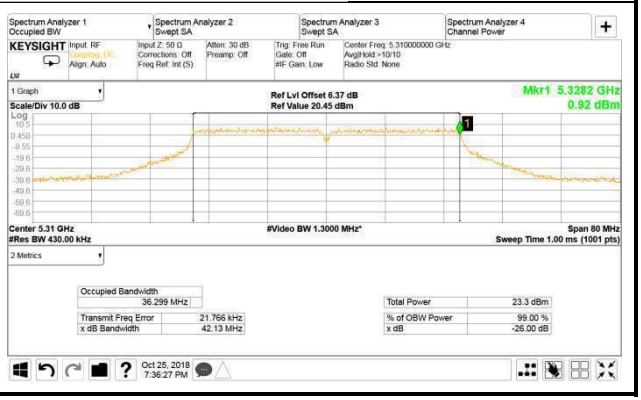
Mode: 802.11n-HT40	
UNII Band I	UNII Band II-2A
	
	

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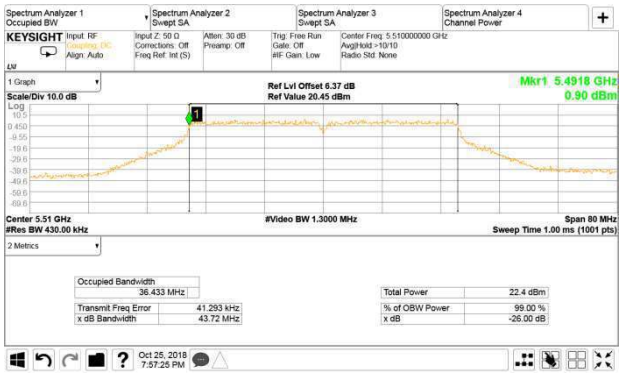
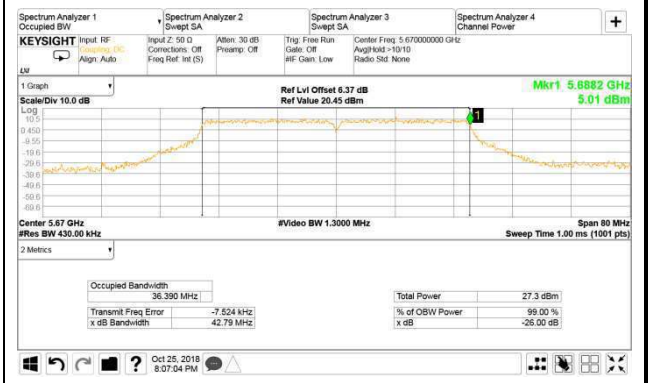
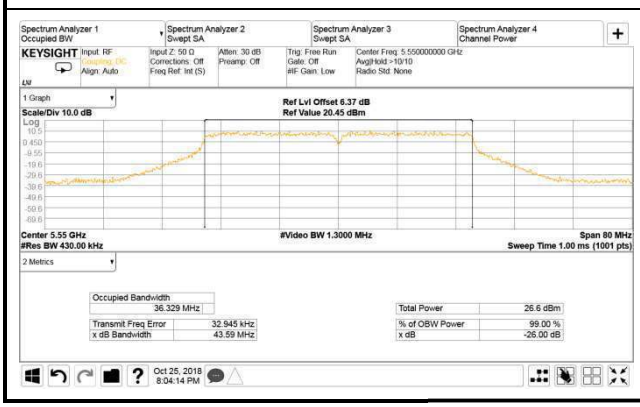
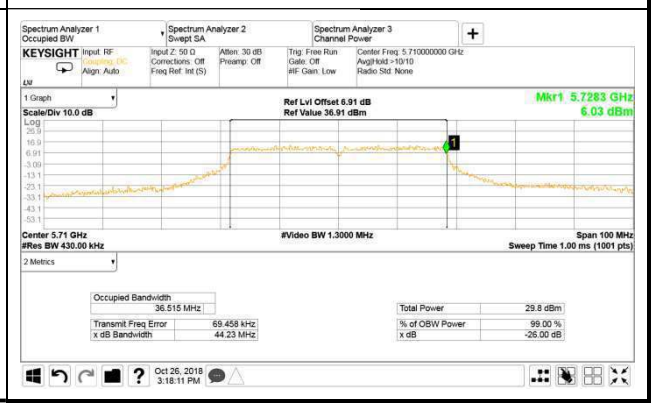
Mode: 802.11n-HT40	
UNII Band II-2C	









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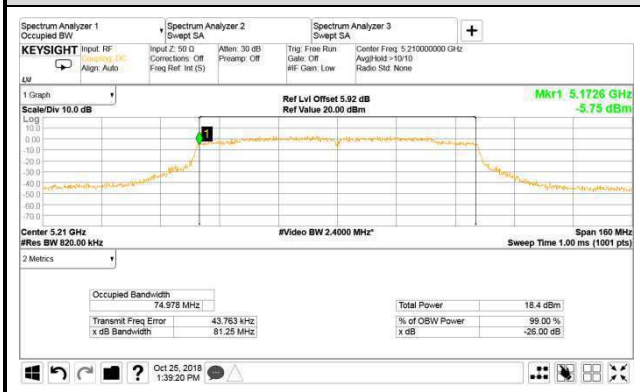
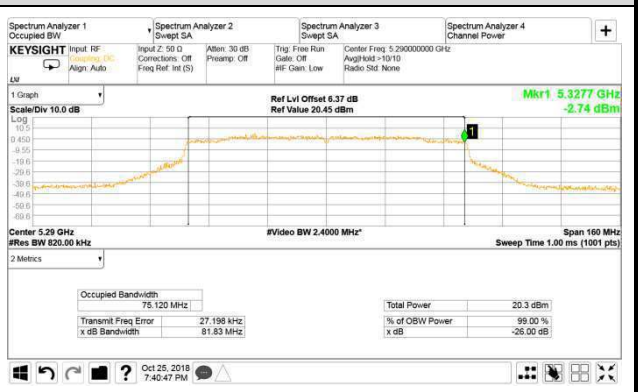
Mode: 802.11ac-VHT80

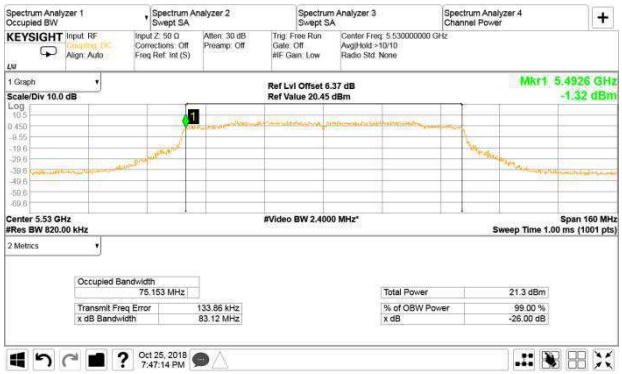
UNII Band I

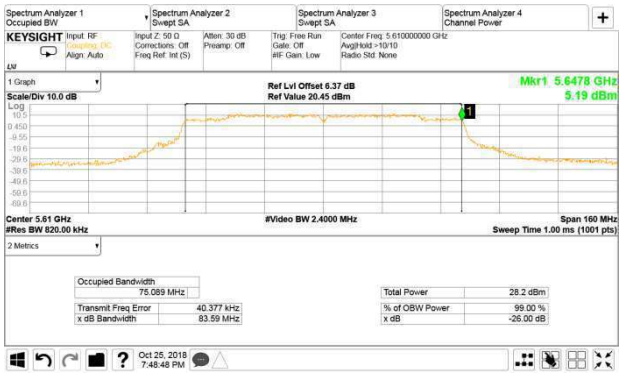


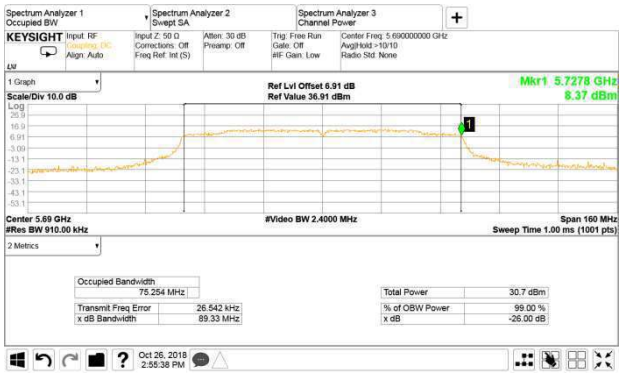
UNII Band II-2A



UNII Band II-2C







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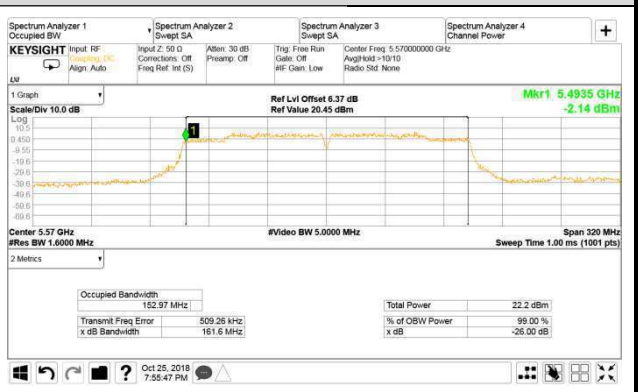
Mode: 802.11ac-VHT160	
UNII Band I	UNII Band II-2C
	

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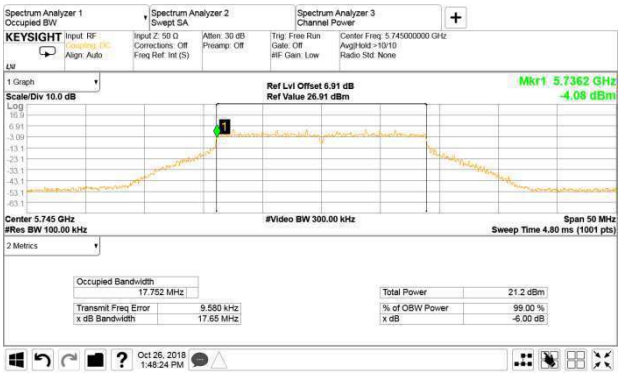
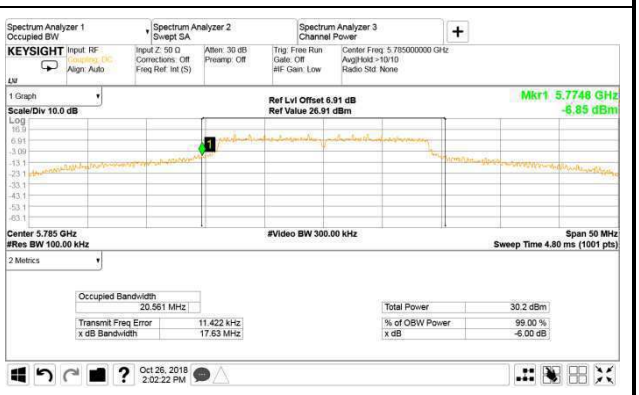
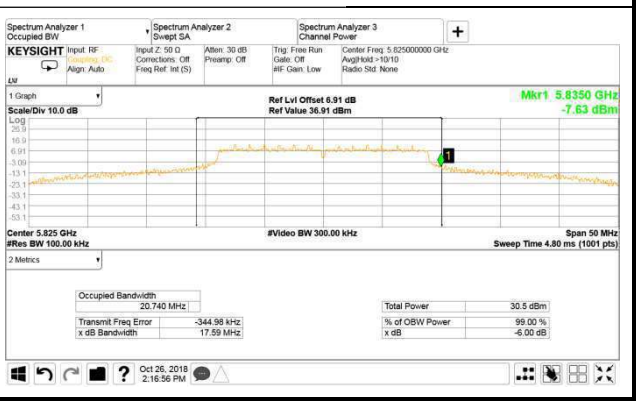
Mode: 802.11a	Mode: 802.11n-HT20
UNII Band III	UNII Band III
	
	
	

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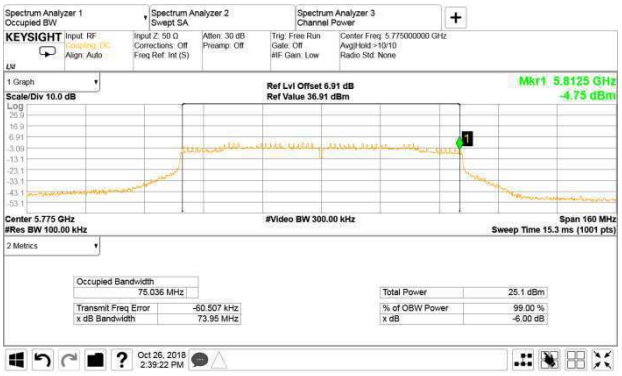
Mode: 802.11n-HT40	Mode: 802.11ac-VHT80
UNII Band III	UNII Band III
	

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A.4 MAXIMUM OUTPUT POWER

Test Date	2018/10/20~11~03	Temp./Hum.	25℃/55%
Cable Loss	Band I: 2.92dB Band II-2A/2C: 3.37dB Band III: 3.91dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

A.4.1 Average Output Power

Mode	UNII Band	Centre Frequency (MHz)	Average Output Power (dBm)		10log (1/X)	Total Average Output Power				Limit
			Chain 0	Chain 1		Chain 0		Chain 1		
						(dBm)	(W)	(dBm)	(W)	
802.11a	I	5180	18.43	17.55	0	18.43	0.070	17.55	0.057	< 250 mW (24 dBm)
		5200	21.11	20.47		21.11	0.129	20.47	0.111	
		5240	20.53	20.55		20.53	0.113	20.55	0.114	
	II-2A	5260	20.61	20.64		20.61	0.115	20.64	0.116	
		5300	20.12	20.02		20.12	0.103	20.02	0.100	
		5320	17.52	17.38		17.52	0.056	17.38	0.055	
	II-2C	5500	16.77	17.16		16.77	0.048	17.16	0.052	
		5580	21.01	21.26		21.01	0.126	21.26	0.134	
		5700	18.38	18.04		18.38	0.069	18.04	0.064	
	III	5745	21.45	21.37		21.45	0.140	21.37	0.137	< 1 W (30 dBm)
		5785	21.17	21.09		21.17	0.131	21.09	0.129	
		5825	20.12	20.58		20.12	0.103	20.58	0.114	

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Mode	UNII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n-HT20	I	5180	15.34	16.22	0.19	19.01	0.080	< 250 mW (24 dBm)
		5200	18.04	18.23		21.34	0.136	
		5240	17.81	18.13		21.18	0.131	
	II-2A	5260	18.21	18.37		21.50	0.141	
		5300	18.26	18.04		21.36	0.137	
		5320	15.52	15.24		18.59	0.072	
	II-2C	5500	15.78	15.73		18.96	0.079	
		5580	18.65	17.35		21.25	0.133	
		5700	17.53	17.72		20.83	0.121	
		5720	19.45	19.72		22.79	0.190	
	III	5745	20.04	20.34		23.40	0.219	< 1 W (30 dBm)
		5785	19.81	20.06		23.14	0.206	
		5825	19.97	20.73		23.57	0.228	
802.11n-HT40	I	5190	13.61	13.56	0.38	16.97	0.050	< 250 mW (24 dBm)
		5230	17.93	16.83		20.80	0.120	
	II-2A	5270	18.27	18.61		21.83	0.152	
		5310	13.74	14.65		17.61	0.058	
	II-2C	5510	12.15	12.83		15.89	0.039	
		5550	16.82	16.76		20.18	0.104	
		5670	16.95	18.26		21.04	0.127	
		5710	19.80	20.25		23.42	0.220	
	III	5755	17.41	17.53		20.86	0.122	< 1 W (30 dBm)
		5795	19.74	19.85		23.18	0.208	
802.11ac-VHT80	I	5210	8.53	9.73	0.76	12.94	0.020	< 250 mW (24 dBm)
	II-2A	5290	11.19	11.63		15.18	0.033	
	II-2C	5530	10.21	12.54		15.30	0.034	
		5610	17.45	17.24		21.11	0.129	
		5690	19.23	18.58		22.69	0.186	
	III	5775	12.66	13.81		17.04	0.051	< 1 W (30 dBm)
802.11ac-VHT160	I	5250	10.71	9.84	1.18	14.49	0.028	< 250 mW (24 dBm)
	II-2C	5570	11.0	10.86		15.12	0.033	

Note: The results have been included cable loss.

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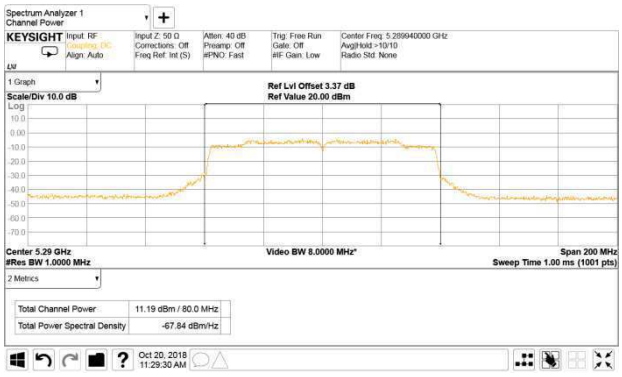
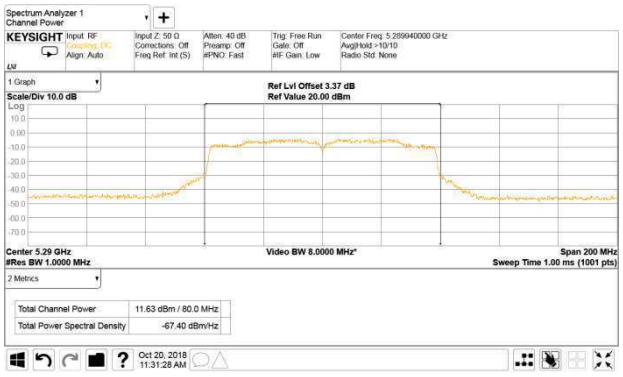
A.4.2 Measurement Plots

- Output Power

Mode: 802.11ac-VHT80	
UNII Band I	
Chain 0	Chain 1
UNII Band II-2A	
	

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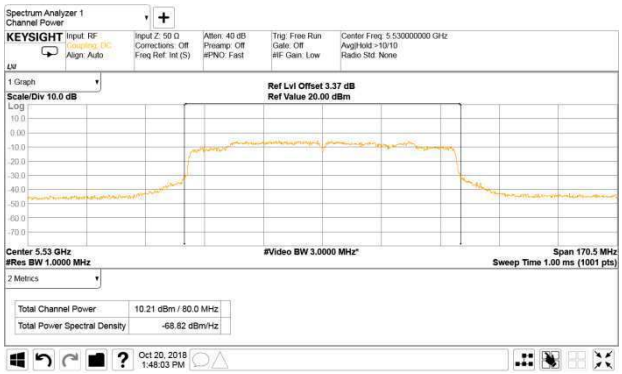
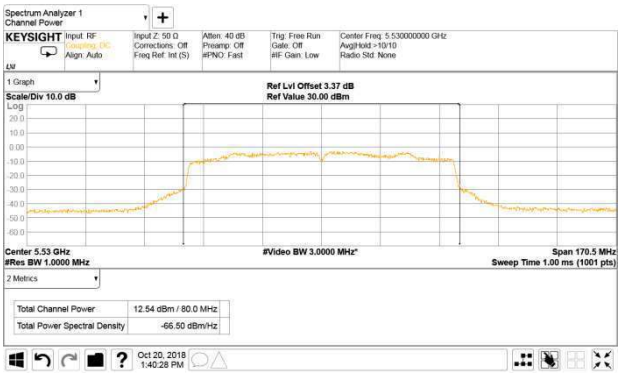
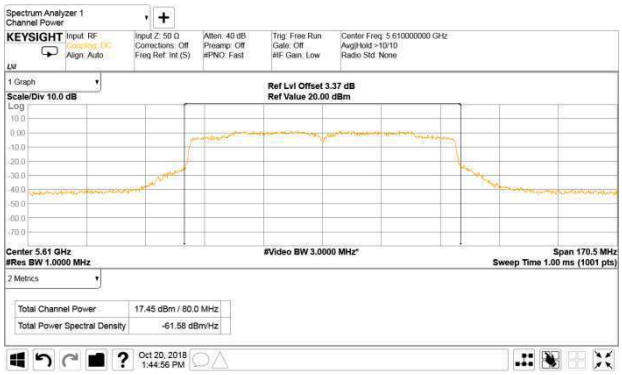
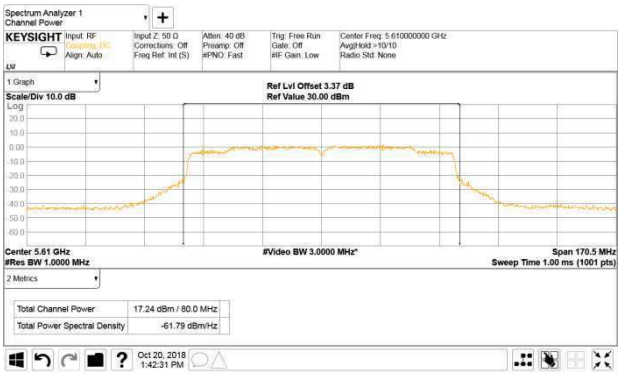
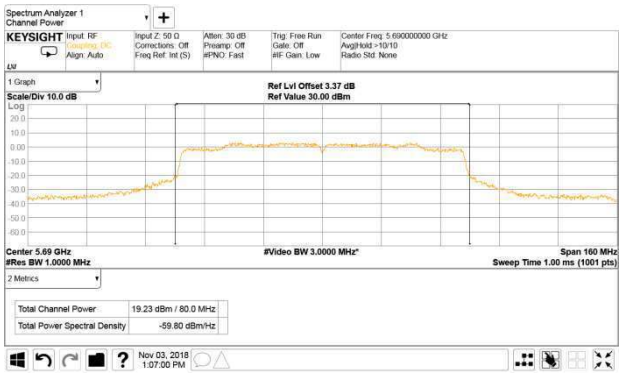
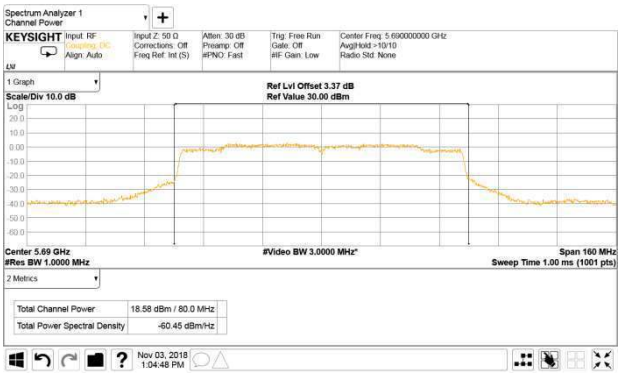
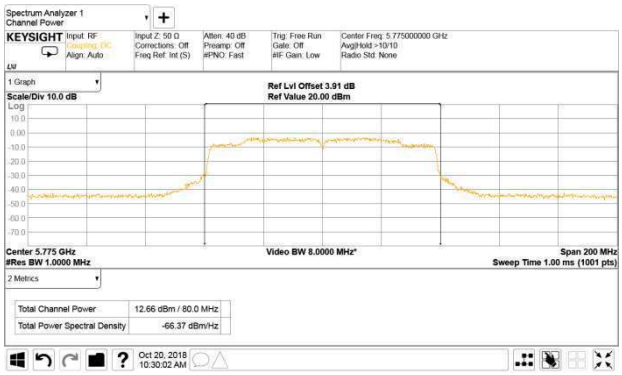
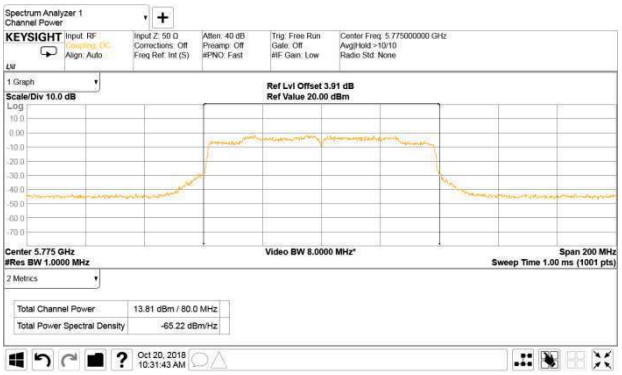
Mode: 802.11ac-VHT80

UNII Band II-2C

Chain 0	Chain 1
	
	
	

UNII Band III

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Mode: 802.11ac-VHT160	
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	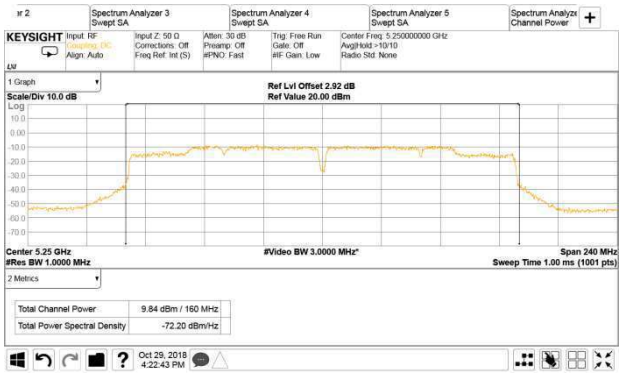
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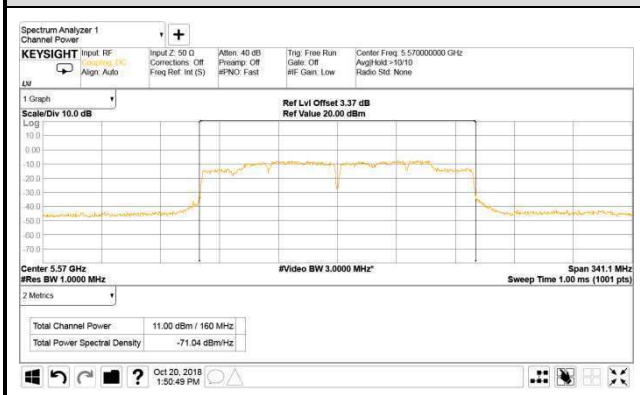	

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