Audix Technology Corp.
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A.4 MAXIMUM OUTPUT POWER

Test Date	2019/09/20~10/4, 2020/10/07 ~ 13	Temp./Hum.	23~24℃/47~53%, 23°C/54 ~ 56%
Cable Loss	1dB	Tested By	Martin Chen/Kuper Hsu
Test Voltage	AC 120V 60Hz (Via AC Adapter)		

A.4.1 Average Output Power

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Max Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	NII-I	5180	18.20	18.09	N/A	18.20	0.066	< 250 mW (24 dBm)
		5200	18.86	18.72		18.86	0.077	
		5240	19.89	19.72		19.89	0.097	
	NII-2A	5260	19.96	19.94		19.96	0.099	
		5300	18.98	18.77		18.98	0.079	
		5320	18.26	17.90		18.26	0.067	
	NII-2C	5500	18.49	18.29		18.49	0.071	
		5580	19.92	19.61		19.92	0.098	
		5700	17.75	18.26		18.26	0.067	
		5720	20.01	19.71		20.01	0.100	
	NII-III	5745	19.85	20.08		20.08	0.102	< 1 W (30 dBm)
		5785	19.72	20.01		20.01	0.100	
		5825	19.67	19.79		19.79	0.095	

SPOT CHECK

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Max Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11a	NII-I	5180	18.24	18.05	0.11	18.35	0.066	< 250 mW (24 dBm)
		5200	18.88	18.68		18.99	0.077	
		5240	19.87	19.73		19.98	0.096	
	NII-2A	5260	19.89	19.92		20.03	0.098	
		5300	19.03	18.72		19.14	0.079	
		5320	18.25	17.85		18.36	0.067	
	NII-2C	5500	18.54	18.28		18.65	0.070	
		5580	19.93	19.64		20.04	0.098	
		5700	17.77	18.21		18.32	0.066	
		5720	19.92	19.68		20.03	0.100	
	NII-III	5745	19.88	20.08		20.19	0.101	< 1 W (30 dBm)
		5785	19.81	19.94		20.05	0.099	
		5825	19.73	19.78		19.89	0.095	

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results.

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Mode	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	NII-I	5180	15.58	15.33	N/A	18.47	0.070	< 250 mW (24 dBm)
		5200	16.23	16.04		19.15	0.082	
		5240	17.46	17.18		20.33	0.108	
	NII-2A	5260	17.61	17.49		20.56	0.114	
		5300	16.35	16.07		19.22	0.084	
		5320	15.41	15.19		18.31	0.068	
	NII-2C	5500	15.82	15.55		18.70	0.074	
		5580	17.52	17.29		20.42	0.110	
		5700	15.11	14.57		17.86	0.061	
		5720	17.49	17.21		20.36	0.109	
	NII-III	5745	17.26	17.24		20.26	0.106	< 1 W (30 dBm)
		5785	17.35	17.25		20.31	0.107	
		5825	17.28	17.26		20.28	0.107	
802.11n-HT40	NII-I	5190	15.81	15.51	N/A	18.67	0.074	< 250 mW (24 dBm)
		5230	17.35	17.11		20.24	0.106	
	NII-2A	5270	16.69	16.61		19.66	0.092	
		5310	14.78	14.52		17.66	0.058	
	NII-2C	5510	15.10	14.69		17.91	0.062	
		5550	15.89	15.65		18.78	0.076	
		5670	17.35	16.88		20.13	0.103	
		5710	17.98	17.55		20.78	0.120	
	NII-III	5755	17.68	17.65		20.68	0.117	< 1 W (30 dBm)
		5795	17.78	17.74		20.77	0.119	
802.11ac-VHT80	NII-I	5210	16.10	15.75	N/A	18.94	0.078	< 250 mW (24 dBm)
	NII-2A	5290	14.79	14.58		17.70	0.059	
	NII-2C	5530	15.64	15.24		18.45	0.070	
		5610	17.83	17.64		20.75	0.119	
		5690	18.19	17.84		21.03	0.127	
	NII-III	5775	16.50	16.53		19.53	0.090	< 1 W (30 dBm)
802.11ac-VHT160	NII-I/II-2A	5250	11.94	11.84	N/A	14.90	0.031	< 250 mW (24 dBm)
	NII-2C	5570	11.51	11.39		14.46	0.028	

Note: The results have been included cable loss.

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SPOT CHECK

Mode	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	NII-I	5180	15.54	15.28	N/A	18.42	0.070	< 250 mW (24 dBm)
		5200	16.28	16.05		19.18	0.083	
		5240	17.42	17.23		20.34	0.108	
	NII-2A	5260	17.53	17.52		20.54	0.113	
		5300	16.35	16.03		19.20	0.083	
		5320	15.49	15.23		18.37	0.069	
	NII-2C	5500	15.72	15.57		18.66	0.073	
		5580	17.53	17.24		20.40	0.110	
		5700	15.15	14.53		17.86	0.061	
		5720	17.48	17.13		20.32	0.108	
	NII-III	5745	17.27	17.25		20.27	0.106	< 1 W (30 dBm)
		5785	17.35	17.26		20.32	0.108	
		5825	17.19	17.32		20.27	0.106	
802.11n-HT40	NII-I	5190	15.77	15.47	0.11	18.74	0.075	< 250 mW (24 dBm)
		5230	17.33	17.07		20.32	0.108	
	NII-2A	5270	16.71	16.62		19.79	0.095	
		5310	14.79	14.53		17.78	0.060	
	NII-2C	5510	15.08	14.66		18.00	0.063	
		5550	15.94	15.68		18.93	0.078	
		5670	17.35	16.92		20.26	0.106	
		5710	18.04	17.53		20.91	0.123	
	NII-III	5755	17.66	17.72		20.81	0.121	< 1 W (30 dBm)
		5795	17.81	17.77		20.91	0.123	
802.11ac-VHT80	NII-I	5210	16.07	15.85	0.11	19.08	0.081	< 250 mW (24 dBm)
	NII-2A	5290	14.40	14.56		17.60	0.058	
	NII-2C	5530	15.62	15.16		18.52	0.071	
		5610	17.73	17.62		20.80	0.120	
		5690	18.22	17.83		21.15	0.130	
	NII-III	5775	16.49	16.48		19.61	0.091	< 1 W (30 dBm)
802.11ac-VHT160	NII-I/ NII-2A	5250	11.84	11.93	N/A	15.01	0.032	< 250 mW (24 dBm)
	NII-2C	5570	11.59	11.46		14.65	0.029	

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results.

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Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	NII-I	5180	15.51	15.28	N/A	18.41	0.069	< 250 mW (24 dBm)
		5200	16.21	15.95		19.09	0.081	
		5240	17.37	17.22		20.31	0.107	
	NII-2A	5260	17.47	17.44		20.47	0.111	
		5300	16.22	16.01		19.13	0.082	
		5320	15.31	15.06		18.20	0.066	
	NII-2C	5500	15.76	15.46		18.62	0.073	
		5580	17.38	17.27		20.34	0.108	
		5700	15.01	14.45		17.75	0.060	
		5720	17.36	17.12		20.25	0.106	
	NII-III	5745	17.10	17.07		20.10	0.102	< 1 W (30 dBm)
		5785	17.22	17.16		20.20	0.105	
		5825	17.17	17.13		20.16	0.104	
802.11ax-HE40	NII-I	5190	15.59	15.37	N/A	18.49	0.071	< 250 mW (24 dBm)
		5230	17.11	16.94		20.04	0.101	
	NII-2A	5270	16.45	16.32		19.40	0.087	
		5310	14.47	14.26		17.38	0.055	
	NII-2C	5510	14.87	14.47		17.68	0.059	
		5550	15.67	15.44		18.57	0.072	
		5670	17.03	16.61		19.84	0.096	
		5710	17.73	17.30		20.53	0.113	
	NII-III	5755	17.41	17.34		20.39	0.109	< 1 W (30 dBm)
		5795	17.52	17.43		20.49	0.112	
802.11ax-HE80	NII-I	5210	15.55	15.57	N/A	18.57	0.072	< 250 mW (24 dBm)
	NII-2A	5290	14.33	14.34		17.35	0.054	
	NII-2C	5530	15.28	15.01		18.16	0.065	
		5610	17.71	17.47		20.60	0.115	
		5690	17.98	17.62		20.81	0.121	
	NII-III	5775	16.20	16.27		19.25	0.084	< 1 W (30 dBm)
802.11ax-HE160	NII-I/ NII-2A	5250	11.65	11.58	N/A	14.63	0.029	< 250 mW (24 dBm)
	NII-2C	5570	11.23	11.15		14.20	0.026	

Note: The results have been included cable loss.

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SPOT CHECK

Mode	Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	NII-I	5180	15.51	15.29	N/A	18.41	0.069	< 250 mW (24 dBm)
		5200	16.17	16.05		19.12	0.082	
		5240	17.35	17.24		20.31	0.107	
	NII-2A	5260	17.44	17.46		20.46	0.111	
		5300	16.26	16.11		19.20	0.083	
		5320	15.36	15.11		18.25	0.067	
	NII-2C	5500	15.79	15.38		18.60	0.072	
		5580	17.48	17.28		20.39	0.109	
		5700	14.96	14.53		17.76	0.060	
		5720	17.45	17.15		20.31	0.107	
	NII-III	5745	17.17	17.11		20.15	0.104	< 1 W (30 dBm)
		5785	17.31	17.28		20.31	0.107	
		5825	17.25	17.19		20.23	0.105	
802.11ax-HE40	NII-I	5190	15.66	15.43	0.13	18.67	0.074	< 250 mW (24 dBm)
		5230	17.07	16.93		20.12	0.103	
	NII-2A	5270	16.49	16.33		19.53	0.090	
		5310	14.49	14.25		17.49	0.056	
	NII-2C	5510	14.86	14.51		17.81	0.060	
		5550	15.66	15.38		18.64	0.073	
		5670	17.05	16.62		19.96	0.099	
		5710	17.69	17.36		20.65	0.116	
	NII-III	5755	17.43	17.29		20.48	0.112	< 1 W (30 dBm)
		5795	17.48	17.39		20.56	0.114	
802.11ax-HE80	NII-I	5210	15.55	15.66	0.12	18.73	0.075	< 250 mW (24 dBm)
	NII-2A	5290	14.39	14.31		17.47	0.056	
	NII-2C	5530	15.34	15.05		18.32	0.068	
		5610	17.74	17.55		20.77	0.119	
		5690	18.00	17.66		20.95	0.124	
	NII-III	5775	16.23	16.35		19.41	0.087	< 1 W (30 dBm)
802.11ax-HE160	NII-I/ NII-2A	5250	11.67	11.55	N/A	14.73	0.030	< 250 mW (24 dBm)
	NII-2C	5570	11.24	11.25		14.37	0.027	

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results.

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Mode	Band	Centre Frequency (MHz)	RU Configuration	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
				Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	NII-I	5180	26/0	11.43	11.18	N/A	14.32	0.027	< 250 mW (24 dBm)
			52/37	14.45	14.25		17.36	0.054	
			106/53	15.68	15.46		18.58	0.072	
	NII-2A	5320	26/8	11.82	11.63		14.74	0.030	
			52/40	12.06	11.92		15.00	0.032	
			106/54	15.55	15.35		18.46	0.070	
	NII-2C	5500	26/0	11.74	11.43		14.60	0.029	
			52/37	14.76	14.48		17.63	0.058	
			106/53	15.78	15.64		18.72	0.074	
		5700	26/8	11.89	11.42		14.67	0.029	
			52/40	13.06	12.59		15.84	0.038	
			106/54	14.72	14.17		17.46	0.056	
	NII-III	5745	26/0	11.58	11.45		14.53	0.028	< 1 W (30 dBm)
			52/37	14.60	14.54		17.58	0.057	
			106/53	17.17	17.15		20.17	0.104	
		5825	26/8	16.65	16.42		19.55	0.090	
			52/40	16.86	16.68		19.78	0.095	
			106/54	16.96	16.64		19.81	0.096	
802.11ax-HE40	NII-I	5190	242/61	15.42	15.34	N/A	18.39	0.069	< 250 mW (24 dBm)
	NII-2A	5310	242/62	14.59	14.36		17.49	0.056	
	NII-2C	5510	242/61	15.05	14.75		17.91	0.062	
		5670	242/62	16.98	16.64		19.82	0.096	
	NII-III	5755	242/61	17.03	17.02		20.04	0.101	< 1 W (30 dBm)
		5795	242/62	16.98	16.96		19.98	0.100	

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				Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE20	NII-I	5180	26/0	11.37	11.17	N/A	14.28	0.027	< 250 mW (24 dBm)
			52/37	14.39	14.19		17.30	0.054	
			106/53	15.62	15.44		18.54	0.071	
	NII-2A	5320	26/8	11.78	11.67		14.74	0.030	
			52/40	12.02	11.89		14.97	0.031	
			106/54	15.49	15.38		18.45	0.070	
	NII-2C	5500	26/0	11.81	11.51		14.67	0.029	
			52/37	14.81	14.48		17.66	0.058	
			106/53	15.72	15.68		18.71	0.074	
		5700	26/8	11.79	11.32		14.57	0.029	
			52/40	13.07	12.49		15.80	0.038	
			106/54	14.68	14.09		17.41	0.055	
	NII-III	5745	26/0	11.49	11.42		14.47	0.028	< 1 W (30 dBm)
			52/37	14.59	14.54		17.58	0.057	
			106/53	17.08	17.09		20.10	0.102	
		5825	26/8	16.62	16.42		19.53	0.090	
			52/40	16.85	16.68		19.78	0.095	
			106/54	16.88	16.59		19.75	0.094	
802.11ax-HE40	NII-I	5190	242/61	15.39	15.28	0.13	18.48	0.070	< 250 mW (24 dBm)
	NII-2A	5310	242/62	14.57	14.31		17.58	0.057	
	NII-2C	5510	242/61	15.01	14.81		18.05	0.064	
		5670	242/62	16.93	16.62		19.92	0.098	
	NII-III	5755	242/61	17.02	16.98		20.14	0.103	< 1 W (30 dBm)
		5795	242/62	16.99	16.98		20.13	0.103	

Note: 1. The results have been included cable loss.

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				Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE80	NII-I	5210	484/65	15.21	15.47	N/A	18.35	0.068	< 250 mW (24 dBm)
	NII-2A	5290	484/66	12.33	11.76		15.06	0.032	
	NII-2C	5530	484/65	13.85	13.53		16.70	0.047	
		5610	484/66	15.78	15.62		18.71	0.074	
	NII-III	5775	484/65	15.39	16.22		18.84	0.077	< 1 W (30 dBm)
			484/66	15.71	15.45		18.59	0.072	
802.11ax-HE160	NII-I/ NII-2A	5250	996/67	10.75	10.59	N/A	13.68	0.023	< 250 mW (24 dBm)
			996/S67	10.47	10.34		13.42	0.022	
	NII-2C	5570	996/67	10.14	9.53		12.86	0.019	
			996/S67	9.90	9.71		12.82	0.019	

Note: The results have been included cable loss.

SPOT CHECK

Mode	Band	Centre Frequency (MHz)	RU Configuration	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
				Chain 0	Chain 1		(dBm)	(W)	
802.11ax-HE80	NII-I	5210	484/65	15.19	15.49	0.12	18.47	0.070	< 250 mW (24 dBm)
	NII-2A	5290	484/66	12.27	11.81		15.18	0.033	
	NII-2C	5530	484/65	13.91	13.58		16.88	0.049	
		5610	484/66	15.79	15.55		18.80	0.076	
	NII-III	5775	484/65	15.29	16.08		18.83	0.076	< 1 W (30 dBm)
			484/66	15.68	15.44		18.69	0.074	
802.11ax-HE160	NII-I/ NII-2A	5250	996/67	10.74	10.48	N/A	13.62	0.023	< 250 mW (24 dBm)
			996/S67	10.38	10.44		13.42	0.022	
	NII-2C	5570	996/67	10.31	9.88		13.11	0.020	
			996/S67	9.61	9.21		12.42	0.017	

Note: 1. The results have been included cable loss.

2. This device embedded with same radio transmitter with FCC ID: BEJNT-15Z90N, IC: 2703H-15Z90N. We did spot check for output power and all output power values keep identical thus we reuse all results.

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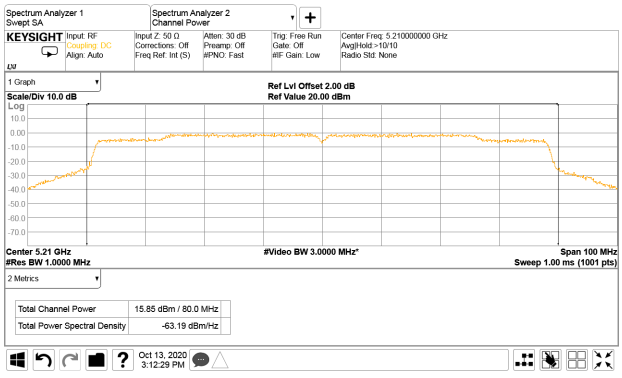
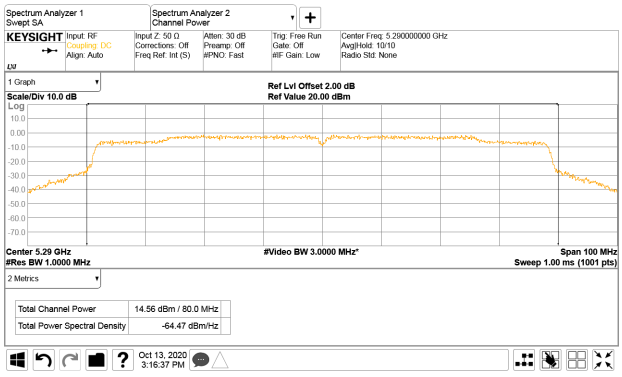
A.4.2 Measurement Plots

SPOT CHECK

802.11ac-VHT80	
Band NII-I	
Chain 0	Chain 1
	
Band NII-2A	
	

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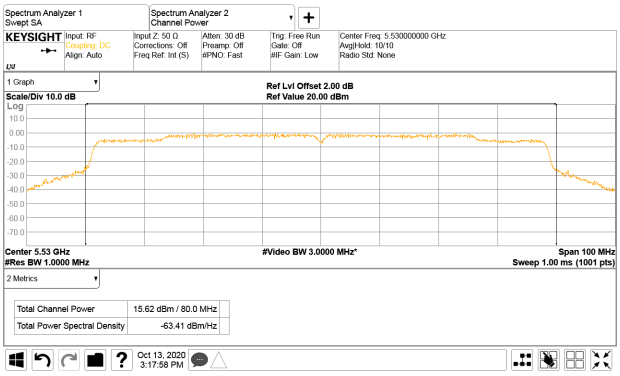
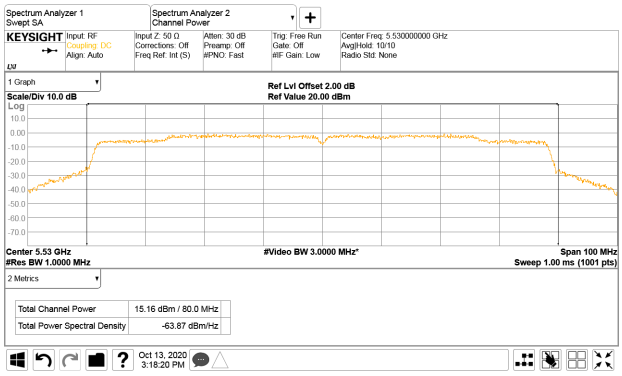
802.11ac-VHT80

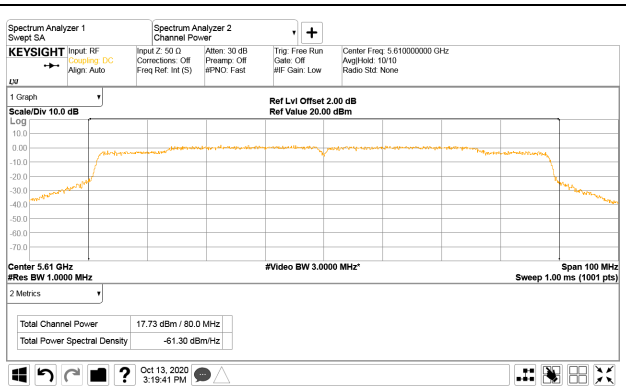
Band NII-2C

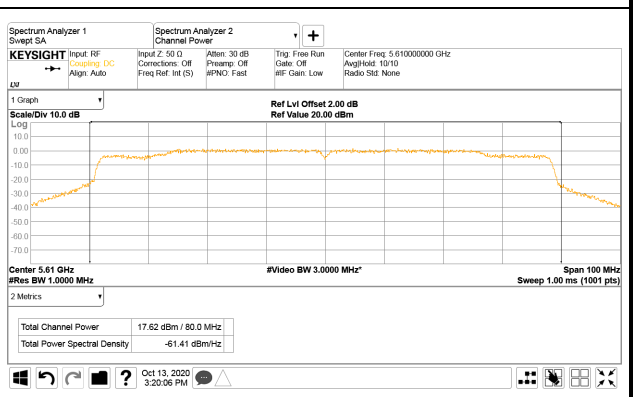
Chain 0

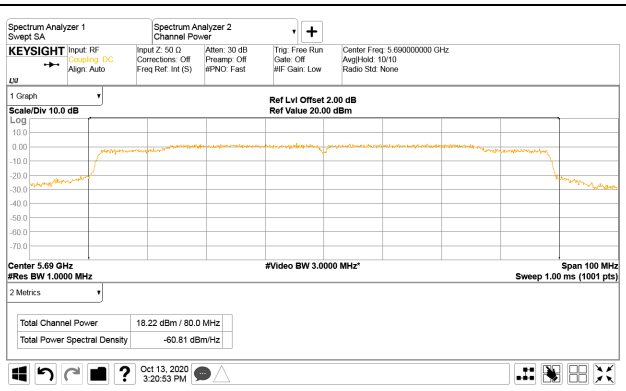


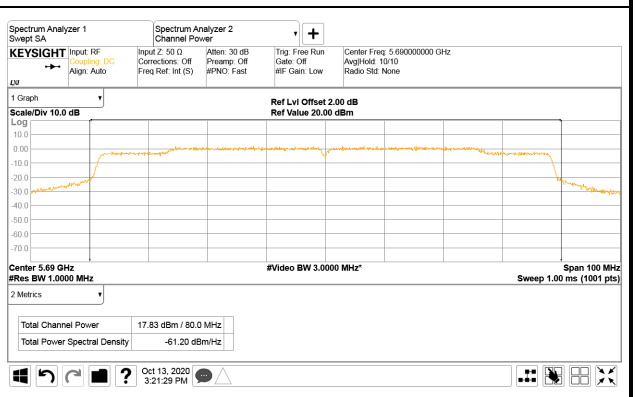
Chain 1



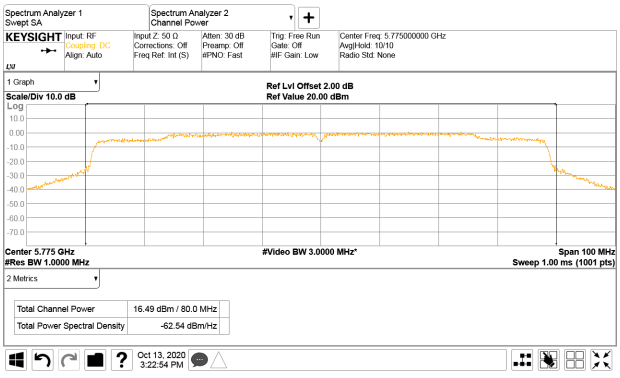


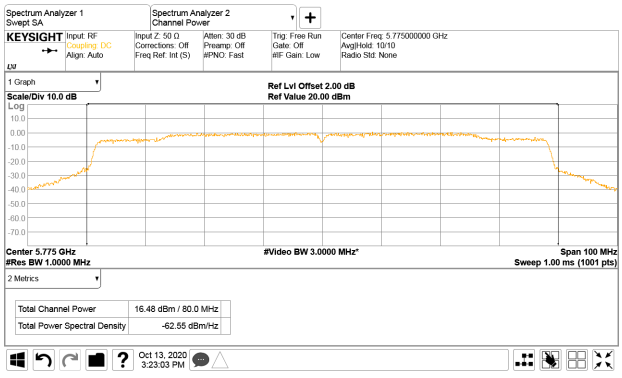






Band NII-III





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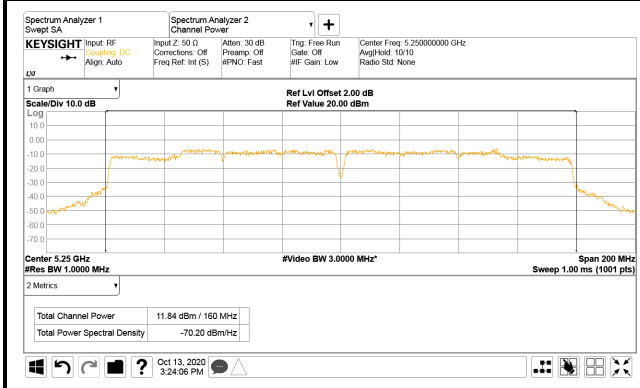
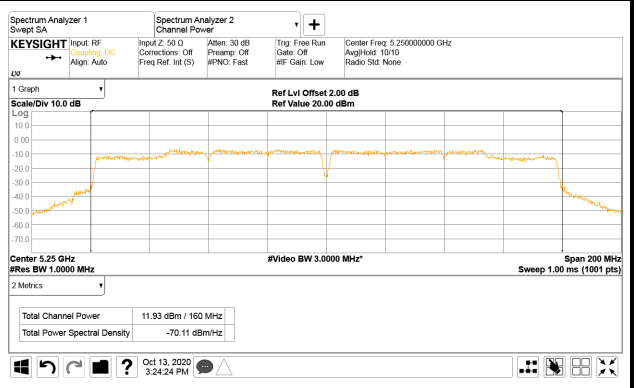
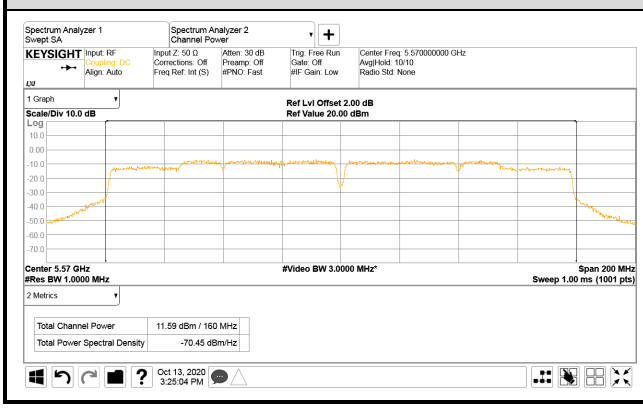
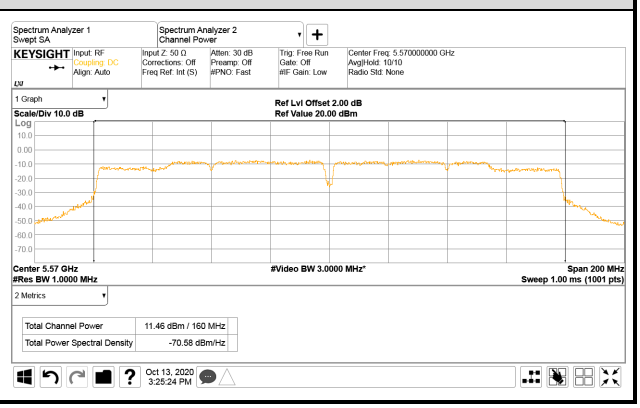
802.11ac-VHT160	
Band NII-I/NII-2A	
Chain 0	Chain 1
	
Band NII-2C	
	

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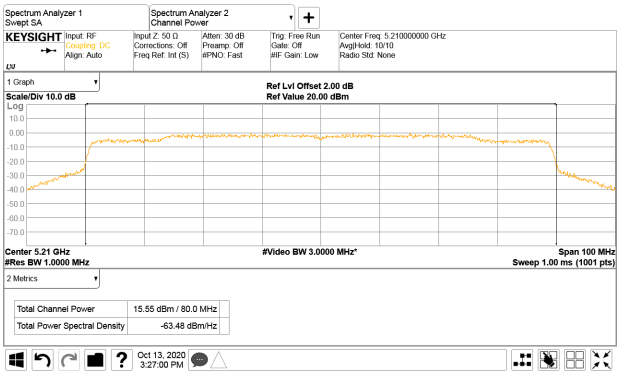
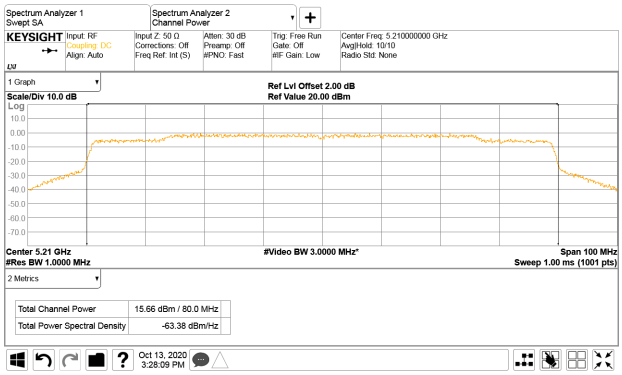
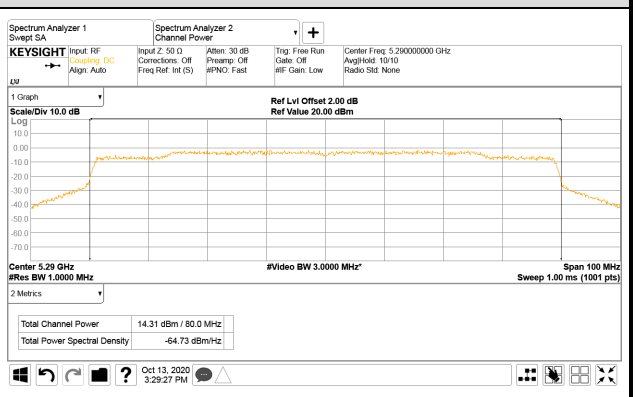
802.11ax-HE80	
Band NII-I	
Chain 0	Chain 1
	
Band NII-2A	
	

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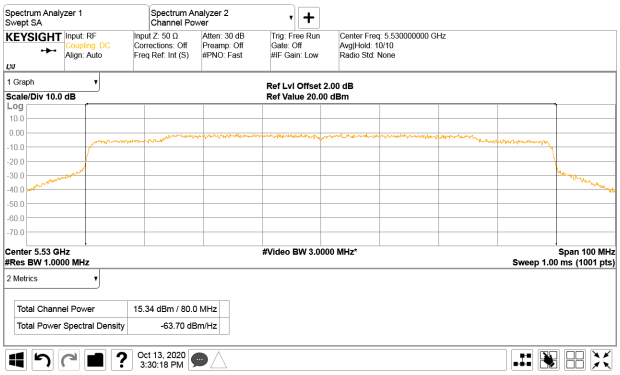
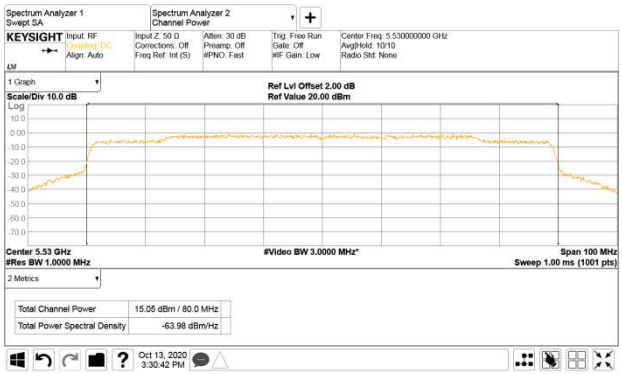
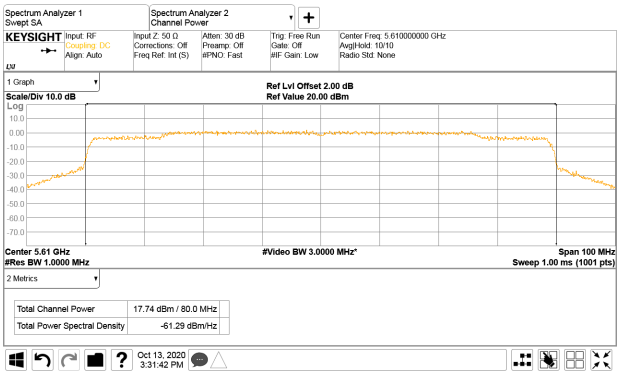
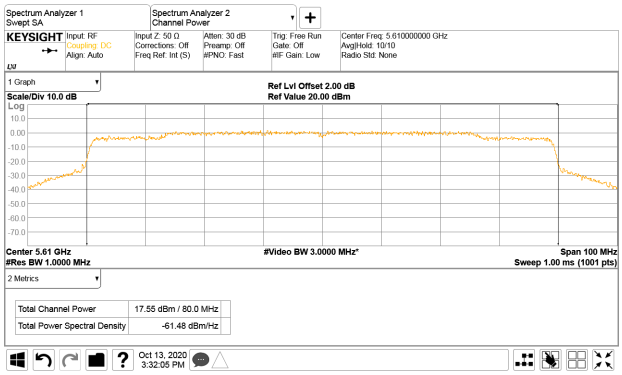
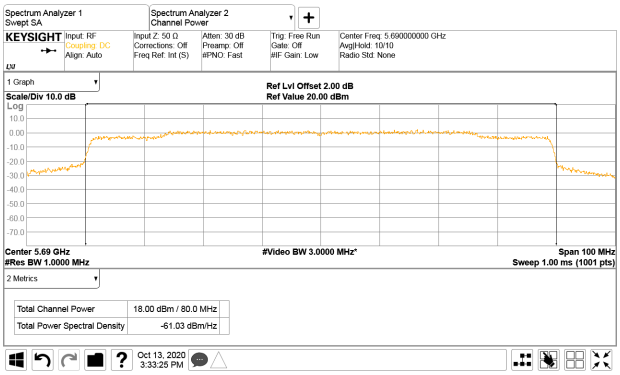
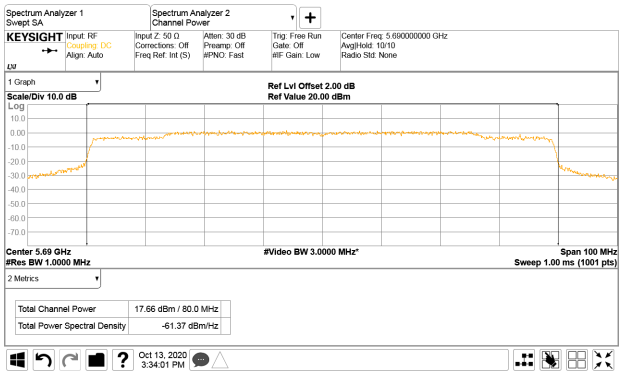
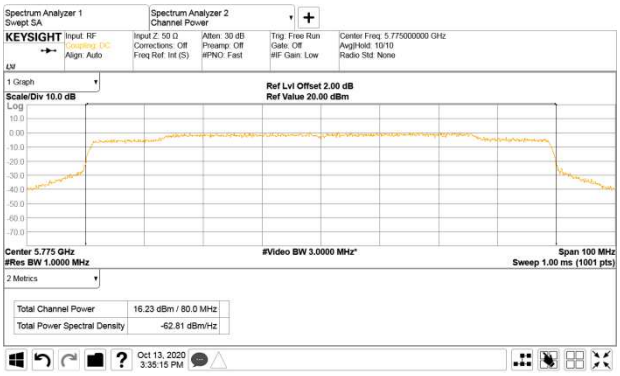
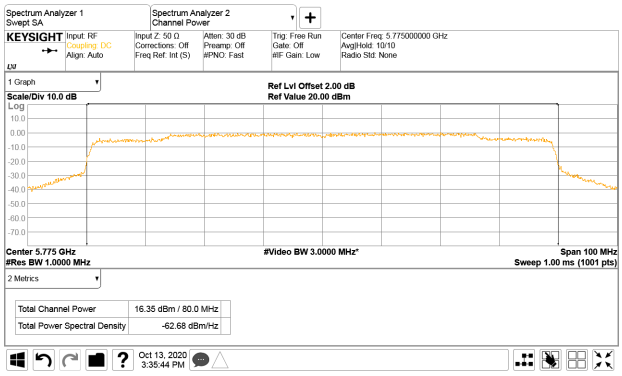
802.11ax-HE80

Band NII-2C

Chain 0	Chain 1
	
	
	

UNII Band NII-III

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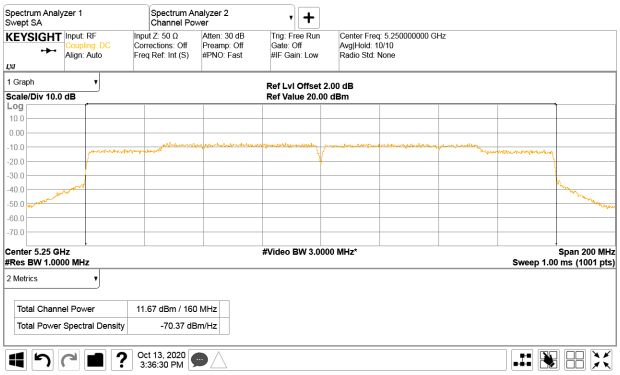
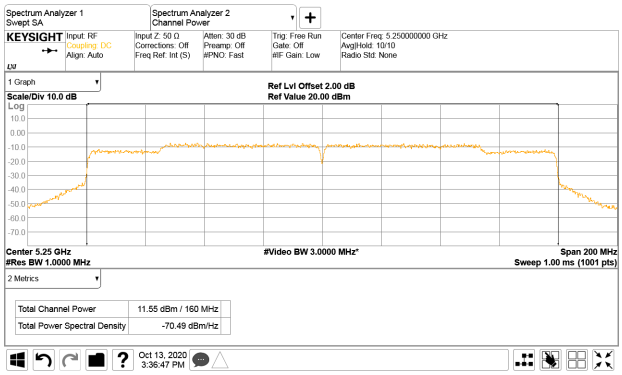
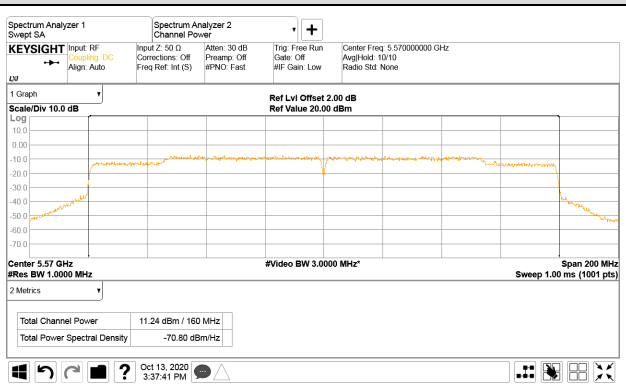
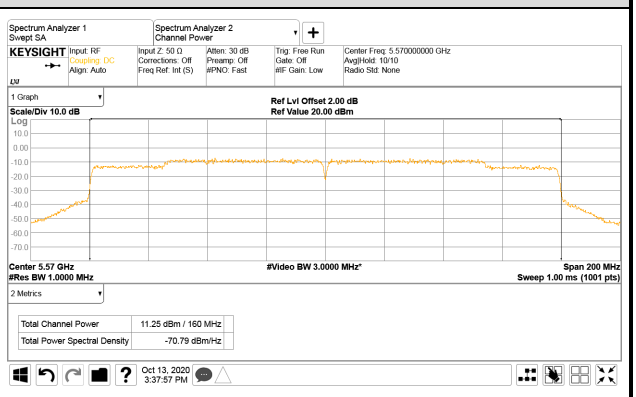
802.11ax-HE160	
Band NII-I/NII-2A	
Chain 0	Chain 1
	
Band NII-2C	
	

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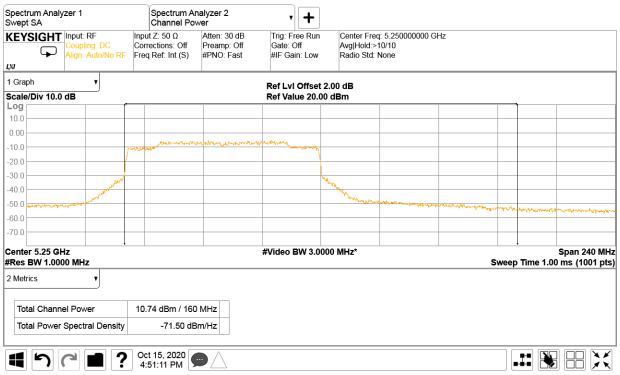
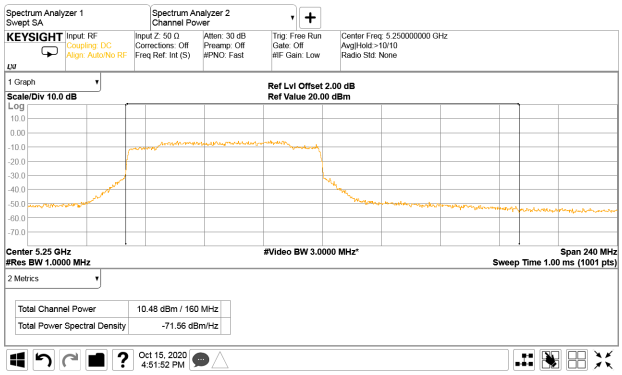
802.11ax-HE160	
Band NII-I/NII-2A	
Chain 0	Chain 1
5250MHz	
RU Configuration: 996/67	
	
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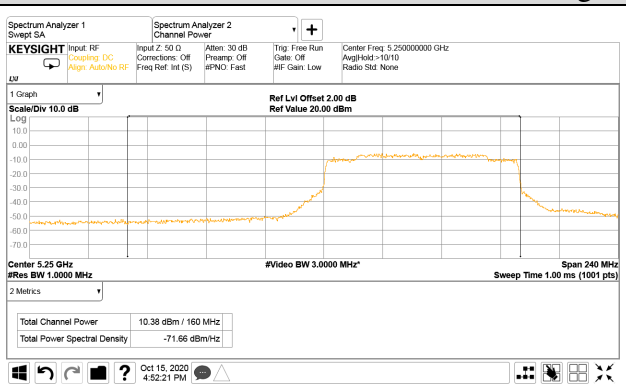	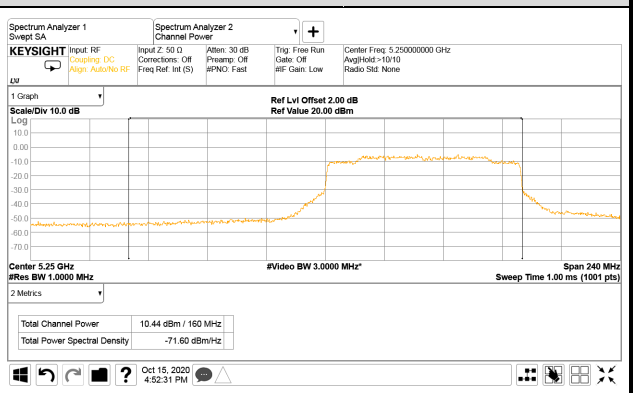

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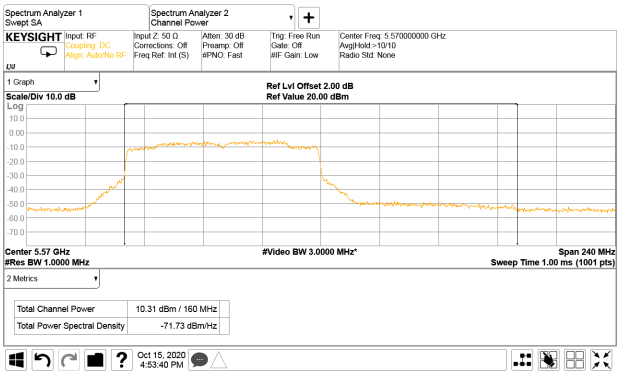
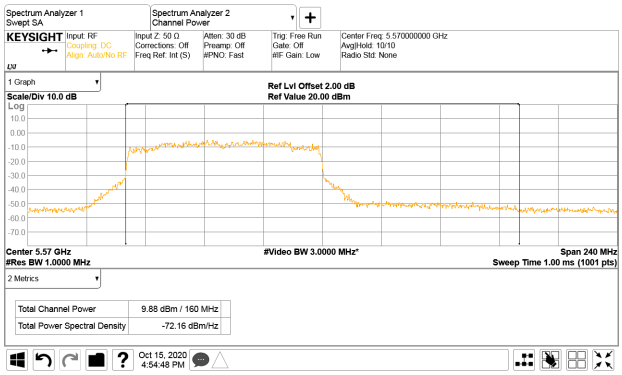
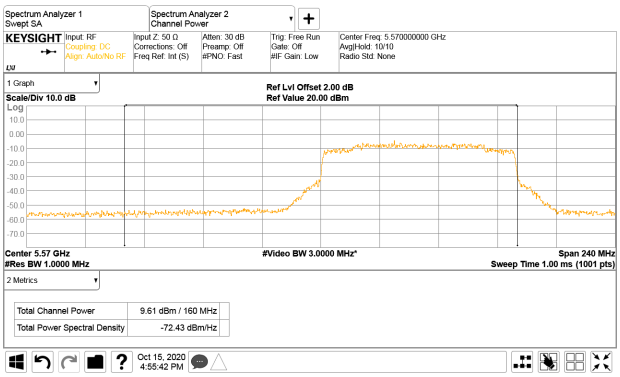
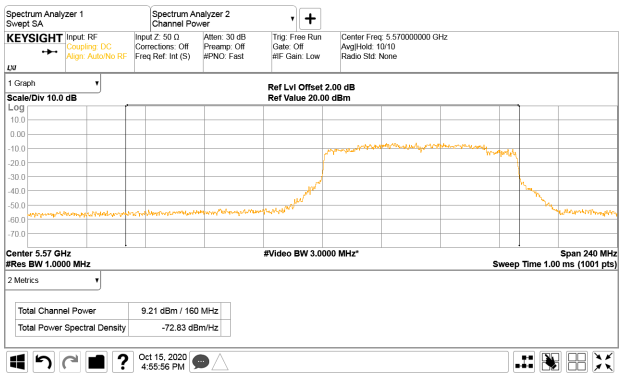
802.11ax-HE160	
Band NII-III	
Chain 0	Chain 1
5570MHz	
RU Configuration: 996/67	
	
RU Configuration: 996/S67	
	

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