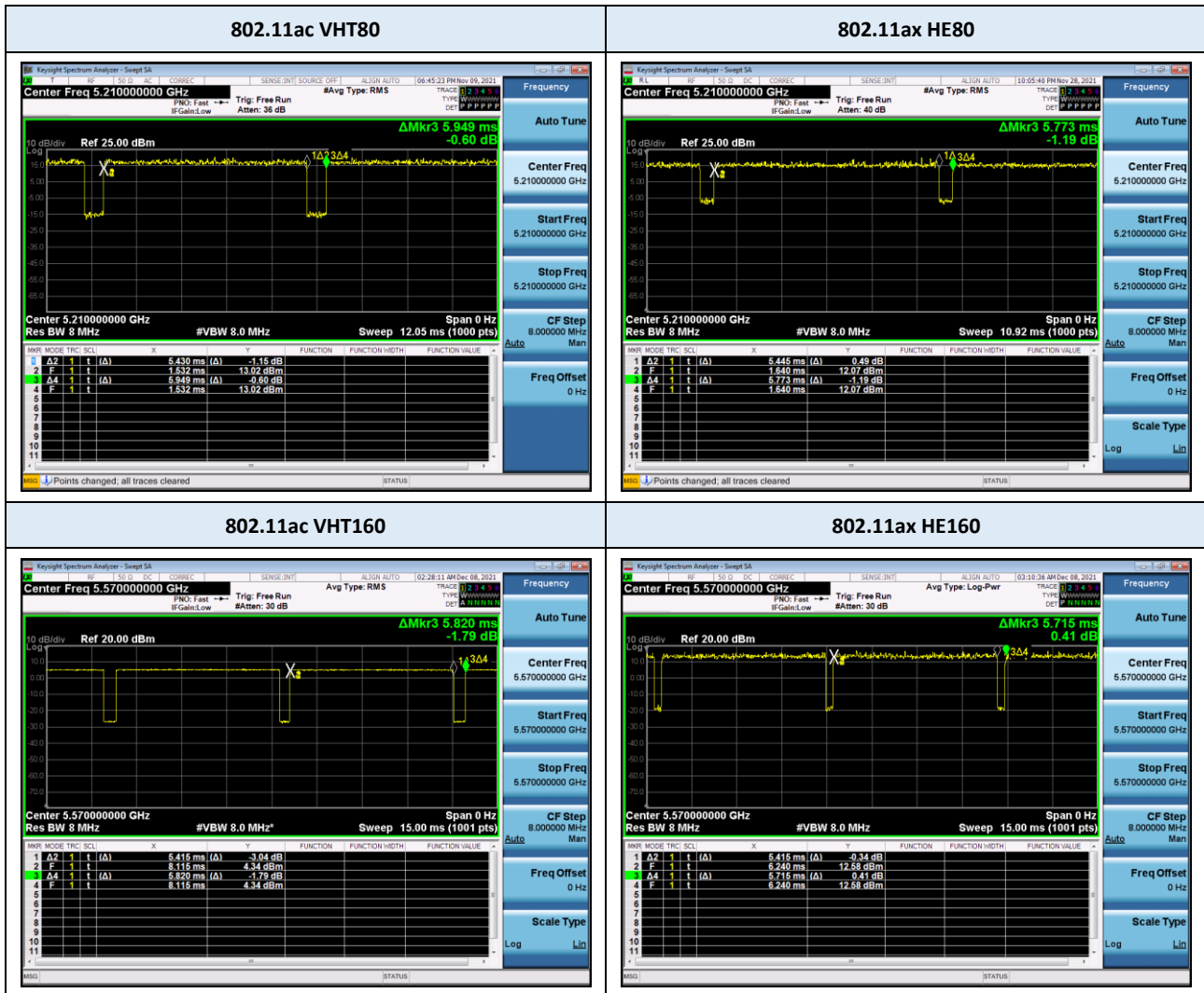


TEST PLOTS



TEST PLOTS (Continued)



9.2 6 dB BANDWIDTH / 26 dB BANDWIDTH / 99% BANDWIDTH

U-NII 2 Band (20 MHz)			99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Chain 0	Chain 1
802.11a	5260	52	16.453	16.432	19.843	20.086
	5300	60	16.436	16.400	18.651	19.192
	5320	64	16.460	16.444	19.380	19.235
	5500	100	16.368	16.427	18.982	18.797
	5580	116	16.386	16.399	19.376	19.257
	5700	140	16.382	16.398	19.017	18.889
802.11n HT20	5260	52	17.721	17.595	20.469	19.851
	5300	60	17.642	17.588	20.394	20.323
	5320	64	17.676	17.651	20.615	20.949
	5500	100	17.615	17.691	19.901	20.956
	5580	116	17.618	17.650	21.105	20.441
	5700	140	17.618	17.661	20.166	19.797
802.11ax HE20	5260	52	18.987	18.918	20.779	20.615
	5300	60	18.934	18.914	20.781	20.711
	5320	64	18.953	18.992	20.878	20.968
	5500	100	18.937	18.918	20.605	20.561
	5580	116	18.919	18.925	20.504	20.695
	5700	140	18.945	18.906	20.612	21.037

U-NII 2 Band (40 MHz)			99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Chain 0	Chain 1
802.11n HT40	5270	54	36.101	36.197	36.101	39.739
	5310	62	36.163	36.094	36.163	39.336
	5510	102	36.130	36.184	36.130	39.464
	5550	110	36.077	36.131	36.077	39.119
	5670	134	36.148	36.166	36.148	39.254
802.11ax HE40	5270	54	37.759	37.843	40.218	40.039
	5310	62	37.729	37.749	39.842	40.587
	5510	102	37.835	37.715	39.810	39.906
	5550	110	37.840	37.721	39.504	39.981
	5670	134	37.705	37.614	40.120	39.632

U-NII 2 Band (80 MHz)			99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Chain 0	Chain 1
802.11ac VHT80	5290	58	75.366	75.547	80.534	80.453
	5530	106	75.334	75.547	80.551	80.731
	5610	122	75.365	75.504	79.874	80.707
802.11ax HE80	5290	58	77.112	77.221	81.232	81.290
	5530	106	77.076	77.116	81.234	80.645
	5610	122	76.871	77.359	81.351	81.575

U-NII 2 Band (160 MHz)			99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Chain 0	Chain 1
802.11ac VHT160	5570	114	154.980	154.860	163.600	164.501
802.11ax HE160	5570	114	156.340	156.010	163.502	163.803

Straddle Channel : U-NII 2c/3 Bands (20 MHz)				99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Band	Chain 0	Chain 1	Chain 0	Chain 1
802.11a	5720	144	U-NII 2c	13.190	13.218	15.220	15.000
	5720	144	U-NII 3	3.543	3.543	4.086	5.338
802.11n HT20	5720	144	U-NII 2c	13.844	13.860	15.110	15.290
	5720	144	U-NII 3	4.078	4.059	5.920	5.268
802.11ax HE20	5720	144	U-NII 2c	14.483	14.461	15.600	15.800
	5720	144	U-NII 3	4.551	4.561	5.801	5.500

Straddle Channel : U-NII 2c/3 Bands (40 MHz)				99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Band	Chain 0	Chain 1	Chain 0	Chain 1
802.11n HT40	5710	142	U-NII 2c	32.939	32.877	34.430	34.460
	5710	142	U-NII 3	3.532	3.532	4.851	4.648
802.11ax HE40	5710	142	U-NII 2c	33.778	33.711	35.170	34.900
	5710	142	U-NII 3	4.089	4.121	4.760	4.548

Straddle Channel : U-NII 2c/3 Bands (80 MHz)				99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Band	Chain 0	Chain 1	Chain 0	Chain 1
802.11ac VHT80	5690	138	U-NII 2c	72.242	72.040	75.600	75.330
	5690	138	U-NII 3	4.317	4.281	5.524	4.925
802.11ax HE80	5690	138	U-NII 2c	72.963	72.957	75.480	75.730
	5690	138	U-NII 3	4.419	4.401	5.532	5.217

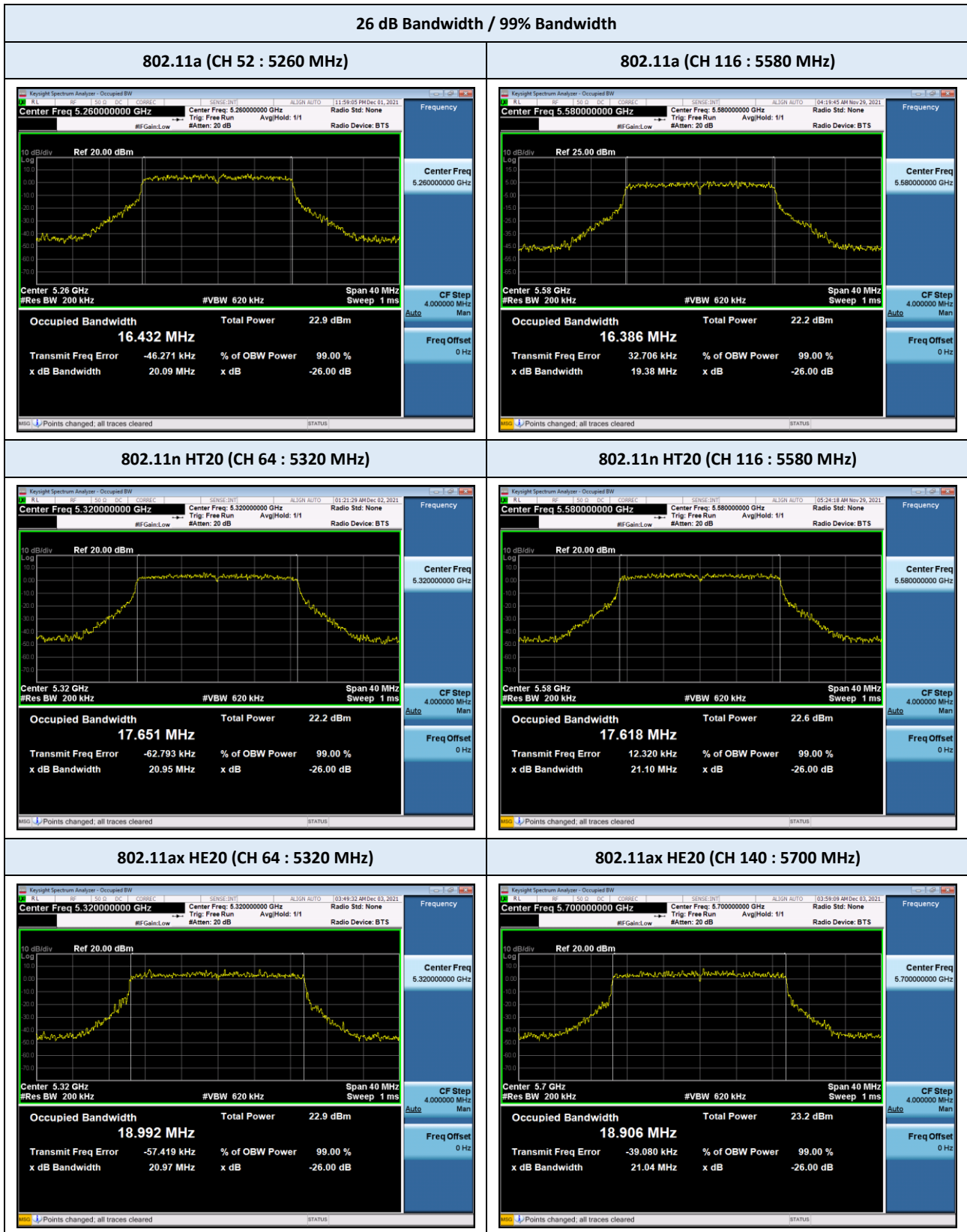
Straddle Channel : U-NII 1/2a Bands (160 MHz)				99% Bandwidth (MHz)		26 dB Bandwidth (MHz)	
Mode	Frequency (MHz)	Channel	Band	Chain 0	Chain 1	Chain 0	Chain 1
802.11ac VHT160	5250	50	U-NII 1	75.876	76.026	81.800	80.910
	5250	50	U-NII 2a	75.990	76.101	80.750	80.820
802.11ax HE80	5250	50	U-NII 1	77.374	77.398	80.230	81.220
	5250	50	U-NII 2a	77.305	77.288	81.150	80.870

Straddle Channel : U-NII 2c/3 Bands (20 MHz)			6 dB Bandwidth (MHz)		
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Limit
802.11a	5720	144	3.111	3.124	≥ 0.5
802.11n HT20	5720	144	3.738	3.769	
802.11ax HE20	5720	144	4.484	4.321	

Straddle Channel : U-NII 2c/3 Bands (40 MHz)			6 dB Bandwidth (MHz)		
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Limit
802.11n HT40	5710	142	3.191	3.202	≥ 0.5
802.11ax HE40	5710	142	3.973	3.969	

Straddle Channel : U-NII 2c/3 Bands (80 MHz)			6 dB Bandwidth (MHz)		
Mode	Frequency (MHz)	Channel	Chain 0	Chain 1	Limit
802.11ac VHT80	5690	138	3.187	3.204	≥ 0.5
802.11ax HE80	5690	138	3.975	3.943	

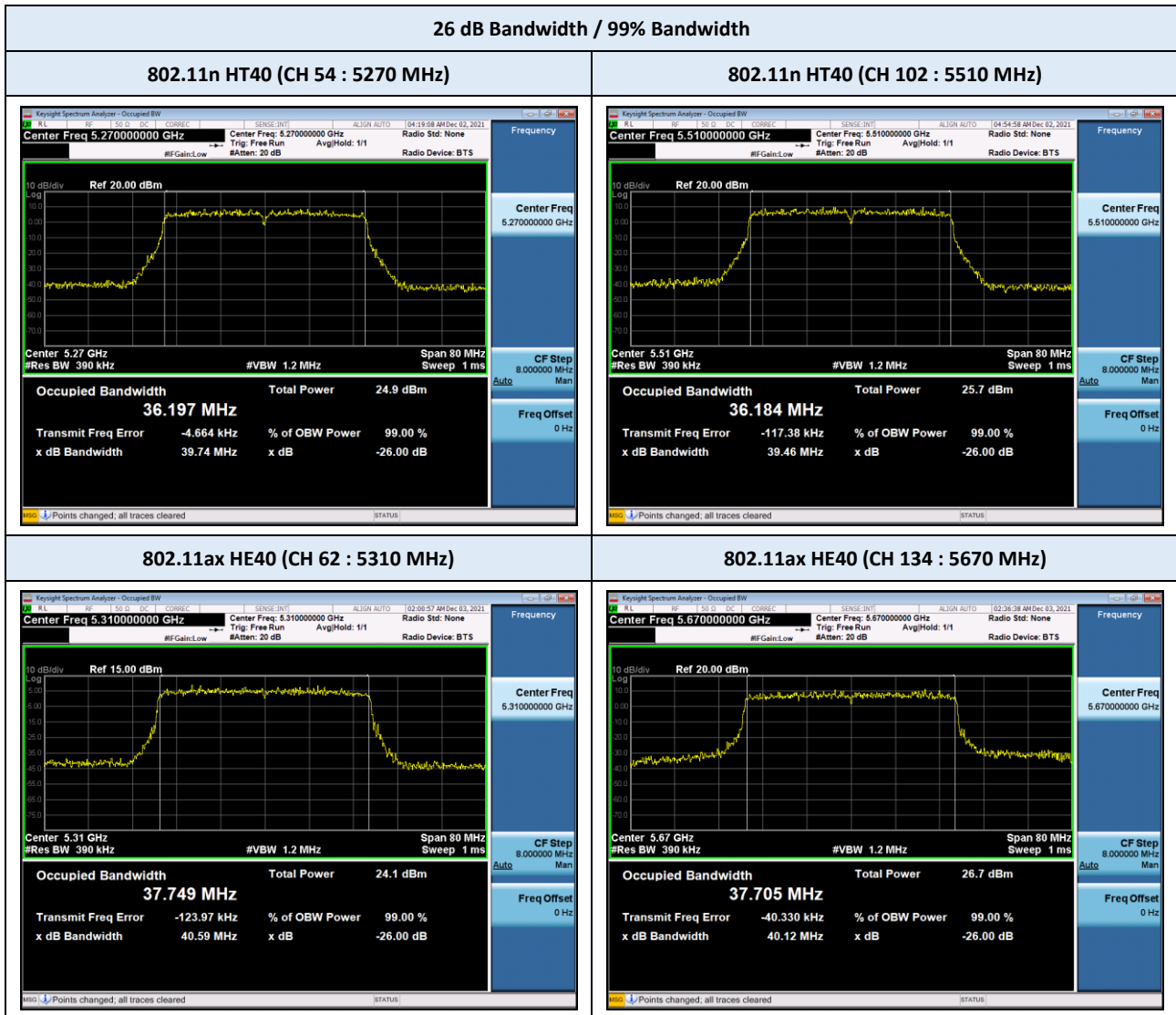
TEST PLOTS



Note :

The worst plots are reported for each bandwidth mode.

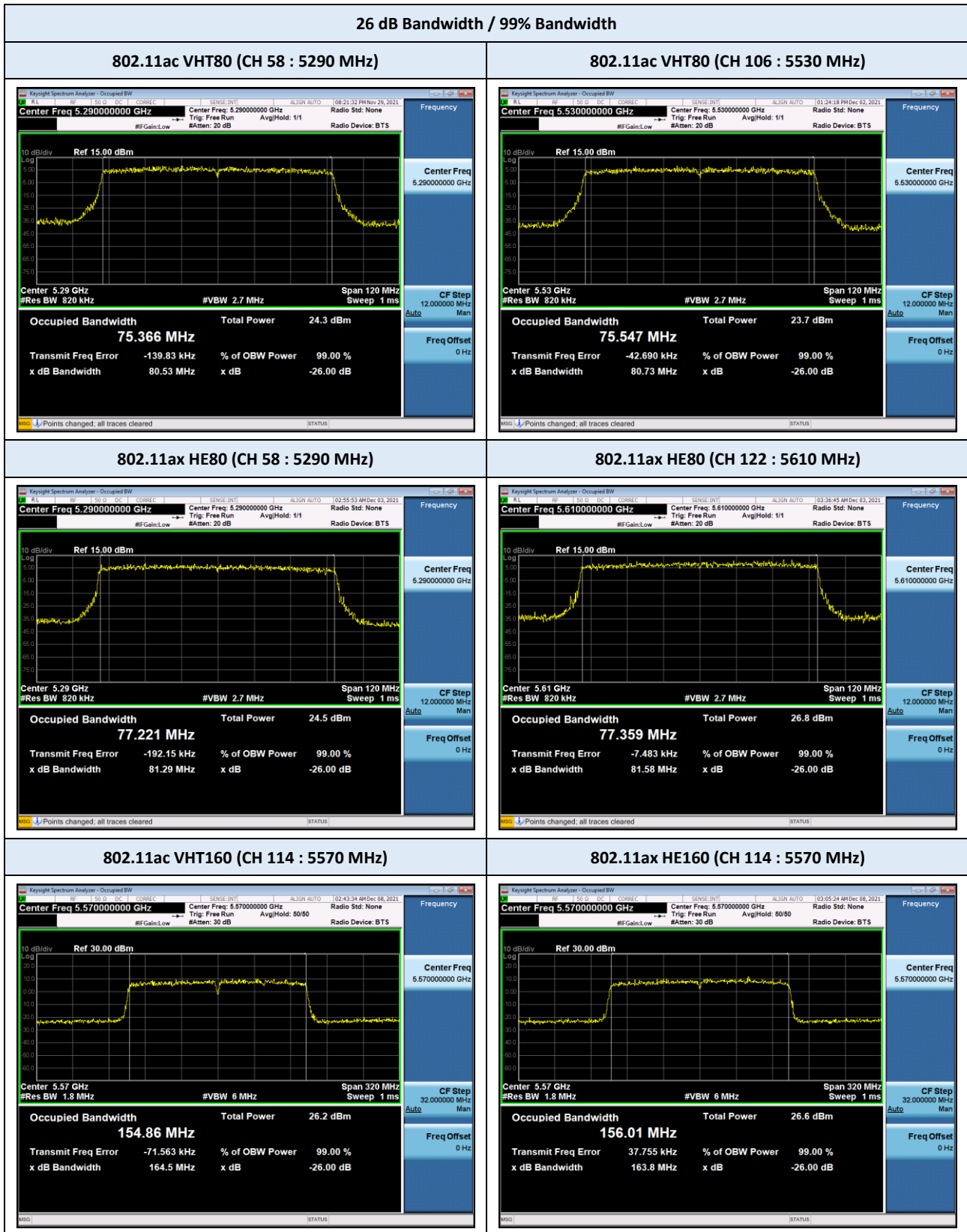
TEST PLOTS



Note :

The worst plots are reported for each bandwidth mode.

TEST PLOTS



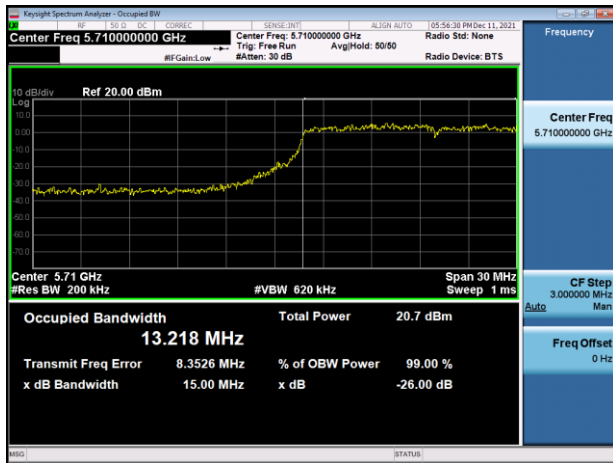
Note :

The worst plots are reported for each bandwidth mode.

TEST PLOTS

(Straddle Channels) 26 dB Bandwidth / 99% Bandwidth

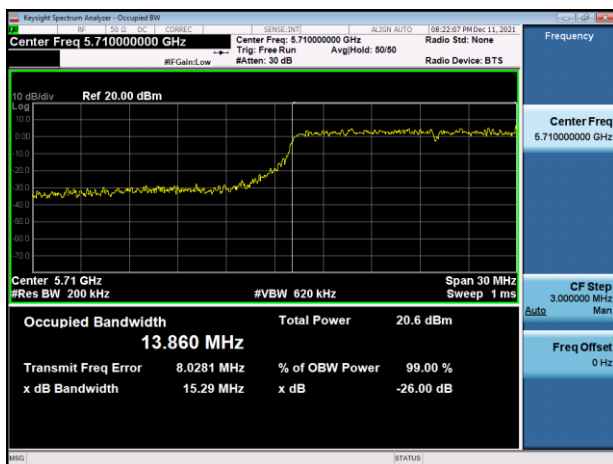
802.11a (CH 144 : 5720 MHz) in U-NII 2c



802.11a (CH 144 : 5720 MHz) in U-NII 3



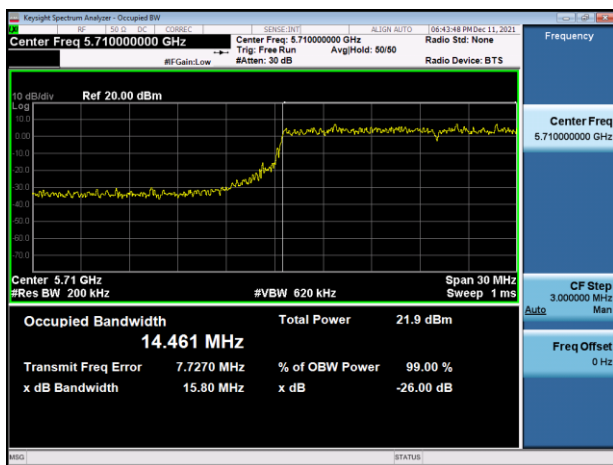
802.11n HT20 (CH 144 : 5720 MHz) in U-NII 2c



802.11n HT20 (CH 144 : 5720 MHz) in U-NII 3



802.11ax HE20 (CH 144 : 5720 MHz) in U-NII 2c



802.11ax HE20 (CH 144 : 5720 MHz) in U-NII 3



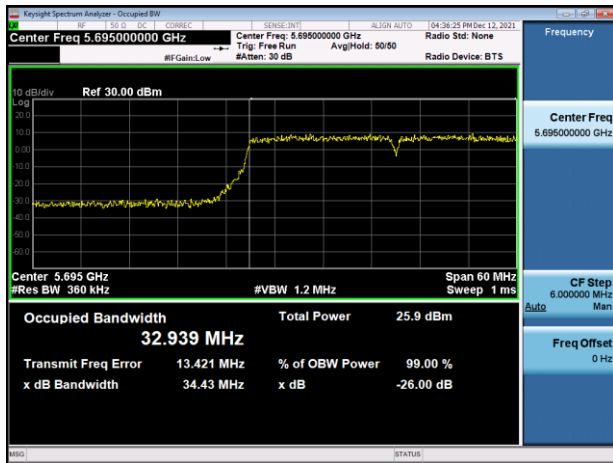
Note :

The worst plots are reported for each bandwidth mode.

TEST PLOTS

(Straddle Channels) 26 dB Bandwidth / 99% Bandwidth

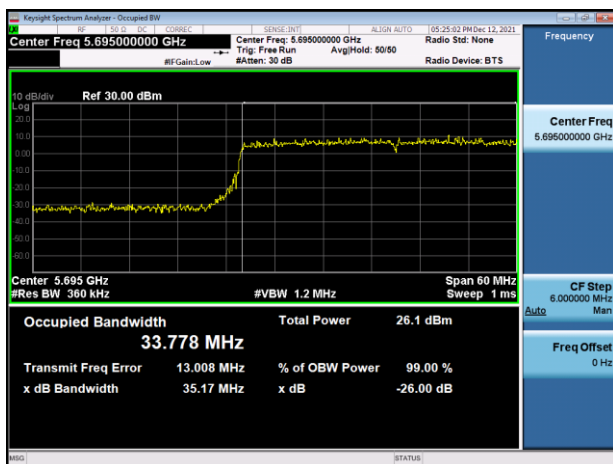
802.11n HT40 (CH 142 : 5710 MHz) in U-NII 2c



802.11n HT40 (CH 142 : 5710 MHz) in U-NII 3



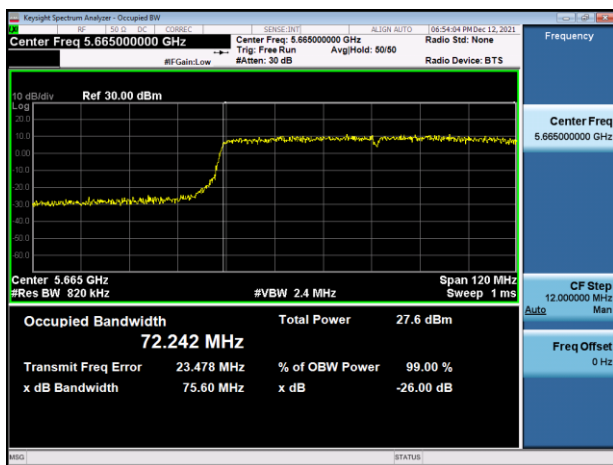
802.11ax HE40 (CH 142 : 5710 MHz) in U-NII 2c



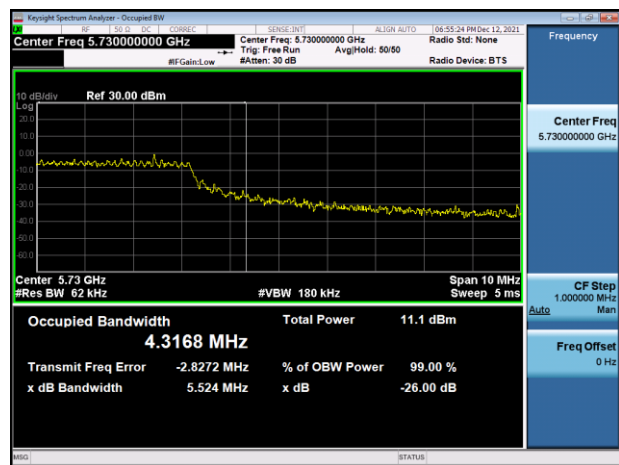
802.11ax HE40 (CH 142 : 5710 MHz) in U-NII 3



802.11ac VHT80 (CH 138 : 5690 MHz) in U-NII 2c



802.11ac VHT80 (CH 138 : 5690 MHz) in U-NII 3



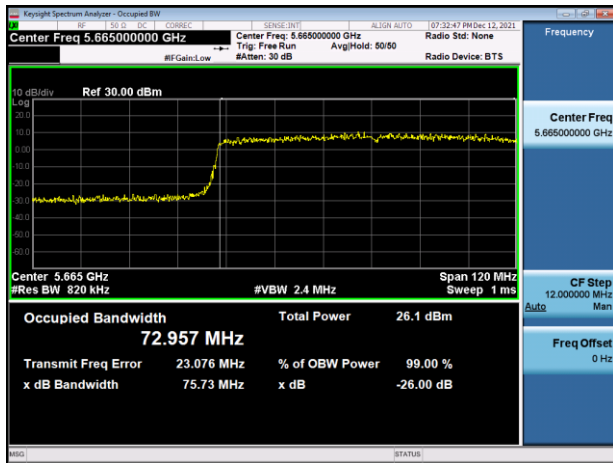
Note :

The worst plots are reported for each bandwidth mode.

TEST PLOTS

(Straddle Channels) 26 dB Bandwidth / 99% Bandwidth

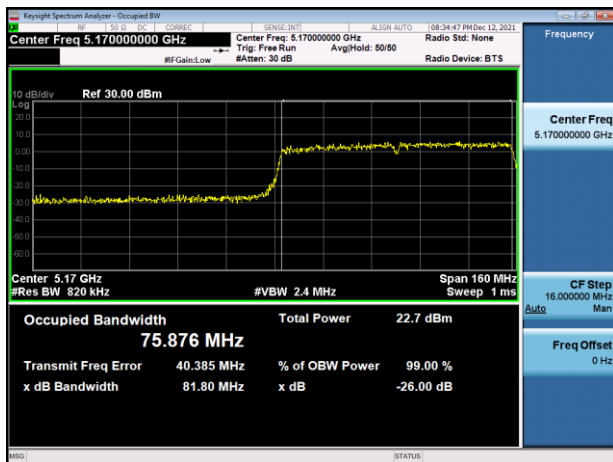
802.11ax HE80 (CH 138 : 5690 MHz) in U-NII 2c



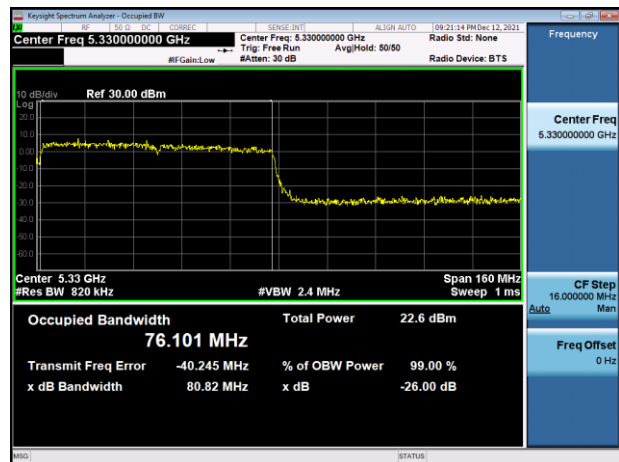
802.11ax HE80 (CH 138 : 5690 MHz) in U-NII 3



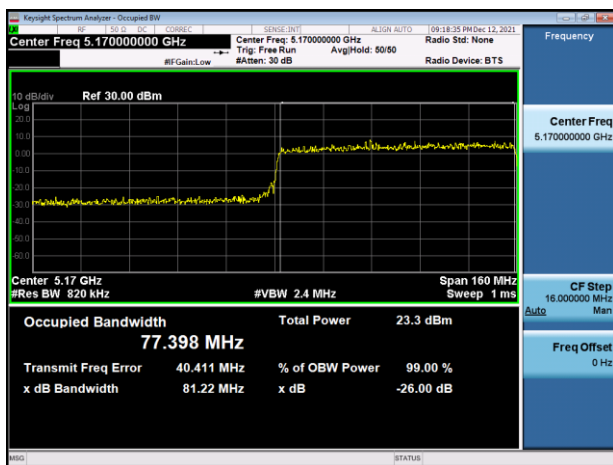
802.11ac VHT160 (CH 50 : 5250 MHz) in U-NII 1



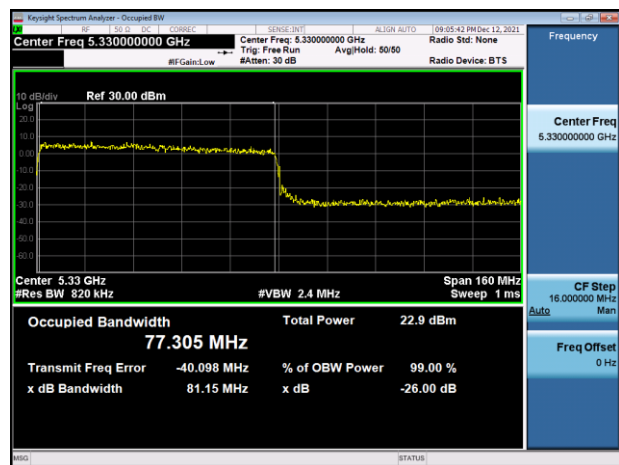
802.11ac VHT160 (CH 50 : 5250 MHz) in U-NII 2a



802.11ax HE160 (CH 50 : 5250 MHz) in U-NII 1



802.11ax HE160 (CH 50 : 5250 MHz) in U-NII 2a



Note :

The worst plots are reported for each bandwidth mode.

TEST PLOTS

(Straddle Channels) 6 dB Bandwidth

802.11a (CH 144 : 5720 MHz)



802.11n HT20 (CH 144 : 5720 MHz)



802.11ax HE20 (CH 144 : 5720 MHz)



802.11n HT40 (CH 142 : 5710 MHz)



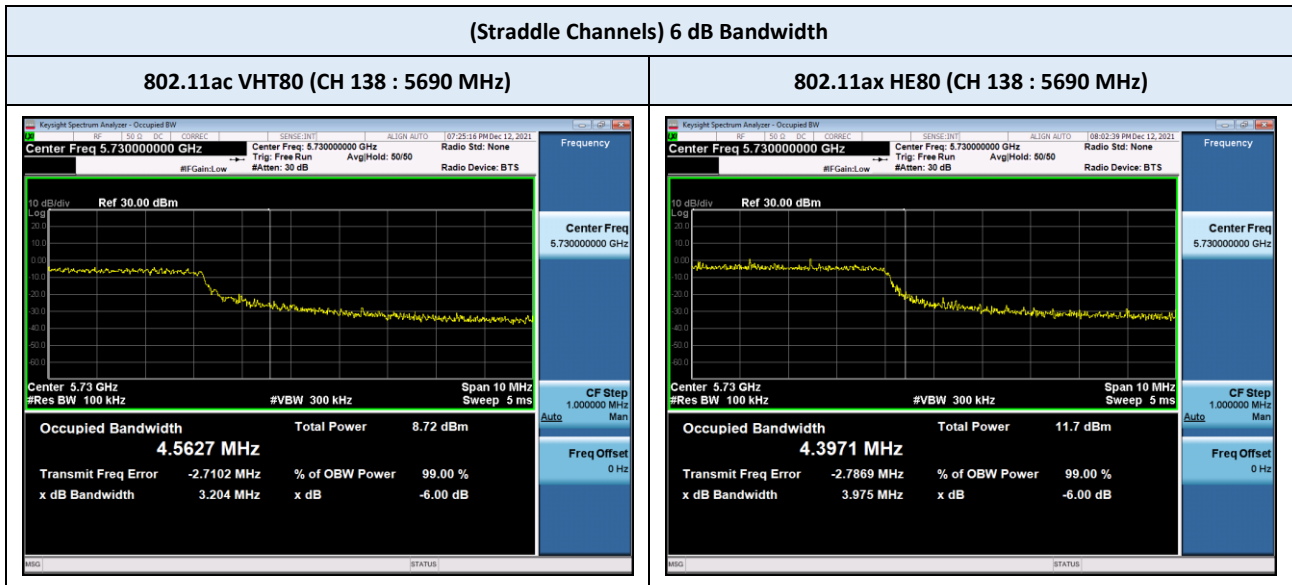
802.11ax HE40 (CH 142 : 5710 MHz)



Note :

The worst plots are reported for each bandwidth mode.

TEST PLOTS



Note :

The worst plots are reported for each bandwidth mode.

9.3 OUTPUT POWER

U-NII 2 Band (20 MHz)				Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Data Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
				Chain 0	Chain 1		All Chain		
802.11a	5260	52	6 Mbps	16.92	17.02	0.72	20.70	23.98	23.16
	5300	60	6 Mbps	16.78	16.60	0.72	20.43	23.83	23.16
	5320	64	6 Mbps	17.25	16.03	0.72	20.41	23.87	23.16
	5500	100	6 Mbps	16.61	16.52	0.72	20.30	23.78	23.16
	5580	116	6 Mbps	16.66	16.37	0.72	20.25	23.87	23.15
	5700	140	6 Mbps	16.47	15.99	0.72	19.97	23.79	23.15
802.11n HT20	5260	52	MCS0	17.73	17.40	0.39	20.96	23.98	23.48
	5300	60	MCS0	16.98	16.75	0.39	20.26	23.98	23.47
	5320	64	MCS0	17.28	16.76	0.39	20.43	23.98	23.47
	5500	100	MCS0	17.43	17.20	0.39	20.71	23.98	23.48
	5580	116	MCS0	17.34	17.11	0.39	20.62	23.98	23.47
	5700	140	MCS0	17.05	16.44	0.39	20.15	23.98	23.47
802.11ax HE20	5260	52	MCS0	17.78	18.08	0.20	21.14	23.98	23.78
	5300	60	MCS0	17.89	17.64	0.20	20.97	23.98	23.77
	5320	64	MCS0	17.37	17.20	0.20	20.50	23.98	23.79
	5500	100	MCS0	17.57	17.98	0.20	20.99	23.98	23.77
	5580	116	MCS0	17.19	17.11	0.20	20.36	23.98	23.77
	5700	140	MCS0	17.77	17.18	0.20	20.69	23.98	23.77

Note :

1. Conducted Output Power Limit

- U-NII 2c (FCC : 20 MHz BW) : Min [10 log(250mW), 11+10 log(26dB BW)] dBm
- U-NII 2c (ISED : 20 MHz BW) : Min [10 log(250mW), 11+10 log(99% OBW)] dBm

2. The output power results in the table include the spectrum offset, which is a combination loss of the attenuator and the cable used for testing.

U-NII 2 Band (40 MHz)				Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Date Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
				Chain 0	Chain 1		All Chain		
802.11n HT40	5270	54	MCS0	19.83	19.54	0.37	23.07	23.98	23.98
	5310	62	MCS0	17.95	18.00	0.37	21.35	23.98	23.98
	5510	102	MCS0	20.03	20.09	0.37	23.44	23.98	23.98
	5550	110	MCS0	19.94	19.50	0.37	23.11	23.98	23.98
	5670	134	MCS0	19.94	19.11	0.37	22.93	23.98	23.98
802.11ax HE40	5270	54	MCS0	19.81	19.53	0.20	22.88	23.98	23.98
	5310	62	MCS0	17.51	17.67	0.20	20.80	23.98	23.98
	5510	102	MCS0	19.76	19.71	0.20	22.94	23.98	23.98
	5550	110	MCS0	19.59	19.15	0.20	22.59	23.98	23.98
	5670	134	MCS0	20.16	19.30	0.20	22.96	23.98	23.98

U-NII 2 Band (80 MHz)				Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Data Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
				Chain 0	Chain 1		All Chain		
802.11ac VHT80	5290	58	MCS0	17.64	15.34	0.40	20.05	23.98	23.98
	5530	106	MCS0	19.35	17.08	0.40	21.76	23.98	23.98
	5610	122	MCS0	20.23	17.58	0.40	22.51	23.98	23.98
802.11ax HE80	5290	58	MCS0	17.41	17.52	0.25	20.73	23.98	23.98
	5530	106	MCS0	19.30	19.18	0.25	22.51	23.98	23.98
	5610	122	MCS0	20.16	19.74	0.25	23.21	23.98	23.98

U-NII 2 Band (160 MHz)				Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Date Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
				Chain 0	Chain 1		All Chain		
802.11ac VHT160	5570	114	MCS0	18.81	18.11	0.31	21.80	23.98	23.98
802.11ax HE160	5570	114	MCS0	18.71	18.24	0.23	21.73	23.98	23.98

Note :

1. Conducted Output Power Limit

- U-NII 2c (40/60/80 MHz BW) : $10 \log(250\text{mW}) = 23.98 \text{ dBm}$

2. The output power results in the table include the spectrum offset, which is a combination loss of the attenuator and the cable used for testing.

Straddle Channel : U-NII 2c/3 Bands (20 MHz)					Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Band	Data Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
					Chain 0	Chain 1		All Chain		
802.11a	5720	144	U-NII 2c	6 Mbps	16.95	14.60	0.72	19.67	22.82	22.21
	5720	144	U-NII 3	6 Mbps	10.18	7.93	0.72	12.93	30.00	30.00
	5720	144	Combined		17.78	15.45	0.72	20.50	-	-
802.11n HT20	5720	144	U-NII 2c	MCS0	16.89	15.13	0.39	19.50	22.84	22.42
	5720	144	U-NII 3	MCS0	10.97	8.78	0.39	13.41	30.00	30.00
	5720	144	Combined		17.88	16.04	0.39	20.46	-	-
802.11ax HE20	5720	144	U-NII 2c	MCS0	17.02	15.37	0.20	19.48	22.99	22.61
	5720	144	U-NII 3	MCS0	11.53	9.46	0.20	13.82	30.00	30.00
	5720	144	Combined		18.10	16.36	0.20	20.53	-	-

Straddle Channel : U-NII 2c/3 Bands (40 MHz)					Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Band	Data Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
					Chain 0	Chain 1		All Chain		
802.11n HT40	5710	142	U-NII 2c	MCS0	19.92	19.55	0.37	23.12	23.98	23.98
	5710	142	U-NII 3	MCS0	9.11	8.47	0.37	12.18	30.00	30.00
	5710	142	Combined		20.26	19.88	0.37	23.46	-	-
802.11ax HE40	5710	142	U-NII 2c	MCS0	19.46	19.18	0.20	22.53	23.98	23.98
	5710	142	U-NII 3	MCS0	9.58	8.88	0.20	12.45	30.00	30.00
	5710	142	Combined		19.89	19.57	0.20	22.94	-	-

Straddle Channel : U-NII 2c/3 Bands (80 MHz)					Test Result				FCC Limit (dBm)	ISED Limit (dBm)
Mode	Frequency (MHz)	Channel	Band	Data Rate	Measured Power (dBm)		Duty Factor (dB)	Total Power (dBm)		
					Chain 0	Chain 1		All Chain		
802.11ac VHT80	5690	138	U-NII 2c	MCS0	20.53	18.61	0.40	23.08	23.98	23.98
	5690	138	U-NII 3	MCS0	6.25	3.67	0.40	8.55	30.00	30.00
	5690	138	Combined		20.69	18.74	0.40	23.23	-	-
802.11ax HE80	5690	138	U-NII 2c	MCS0	20.24	18.64	0.25	22.78	23.98	23.98
	5690	138	U-NII 3	MCS0	6.84	4.77	0.25	9.19	30.00	30.00
	5690	138	Combined		20.44	18.82	0.25	22.97	-	-

Note :

1. Conducted Output Power Limit

- U-NII 2c (FCC : 20 MHz BW) : Min [10 log(250mW), 11+10 log(26dB BW)] dBm
- U-NII 2c (ISED : 20 MHz BW) : Min [10 log(250mW), 11+10 log(99% OBW)] dBm
- U-NII 2c (40/60/80 MHz BW) : 10 log(250mW) = 23.98 dBm

2. The output power results in the table include the spectrum offset, which is a combination loss of the attenuator and the cable used for testing.