

Straddle channels TEST RESULTS_Ant 0

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

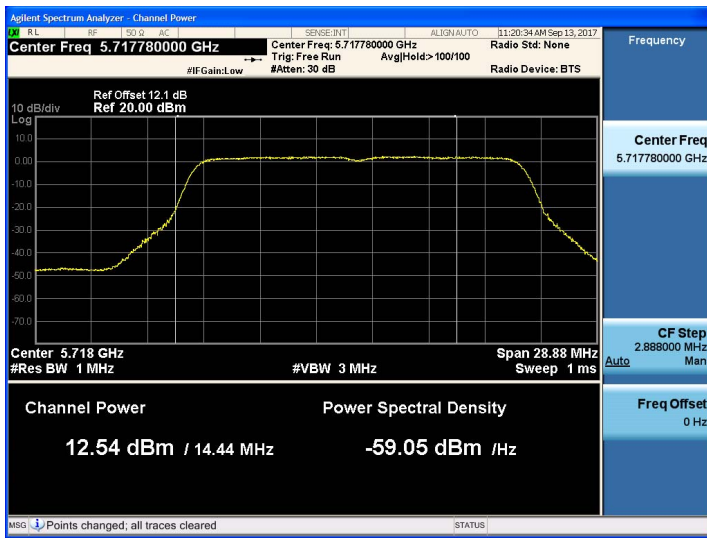
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	12.54	0.388	12.93	22.82
802.11n			12.73	0.087	12.82	22.73
802.11ac			12.77	0.087	12.86	22.73

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

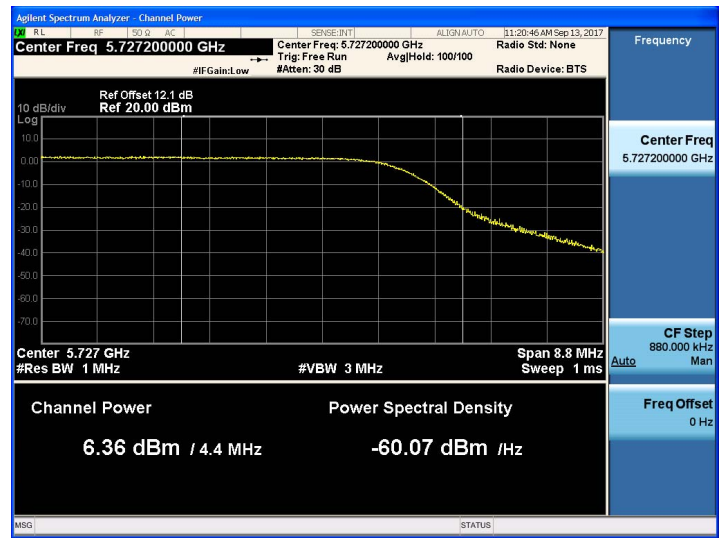
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	6.36	0.388	6.75	23.68
802.11n			7.14	0.087	7.23	23.99
802.11ac			7.30	0.087	7.39	23.99

Straddle channels TEST Plot for 802.11a/n_HT20_Ant 0

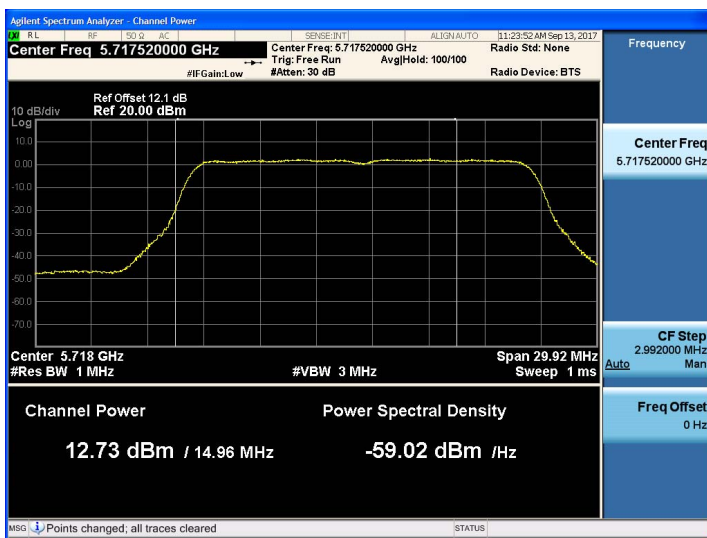
802.11a UNII 2C Band Average Power CH.144



802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144

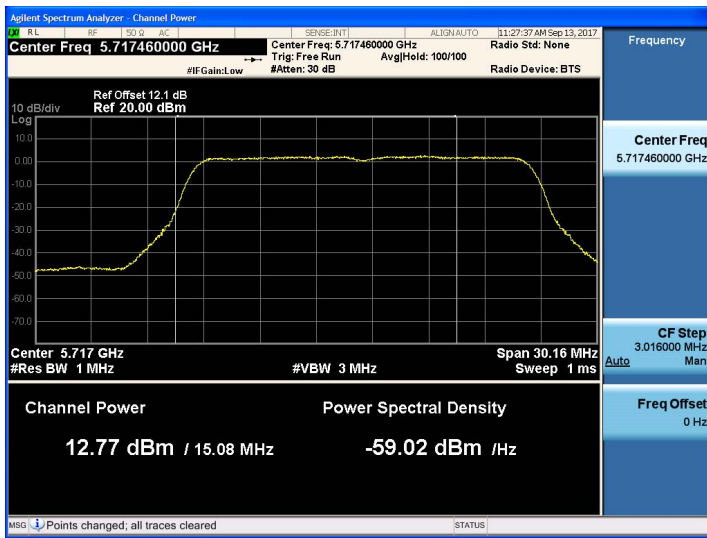


802.11n_HT20 UNII 3 Band Average Power CH.144

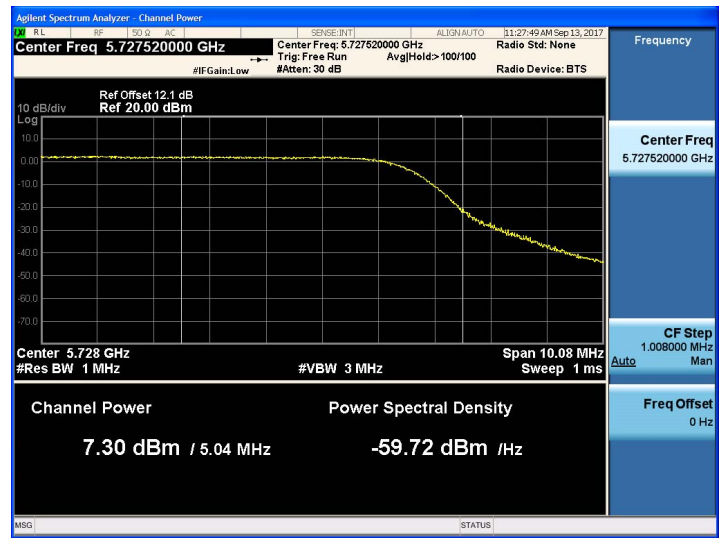


Straddle channels TEST Plot for 802.11ac_VHT20_Ant 0

802.11ac_VHT20 UNII 2C Band Average Power CH.144



802.11ac_VHT20 UNII 3 Band Average Power CH.144



Straddle channels TEST RESULTS_Ant 1

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

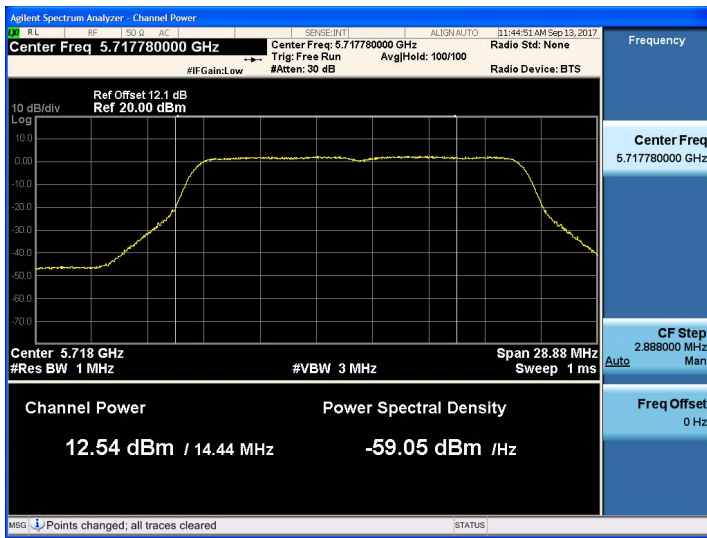
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	12.54	0.201	12.74	22.80
802.11n			12.44	0.061	12.50	22.77
802.11ac			12.44	0.087	12.53	22.75

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

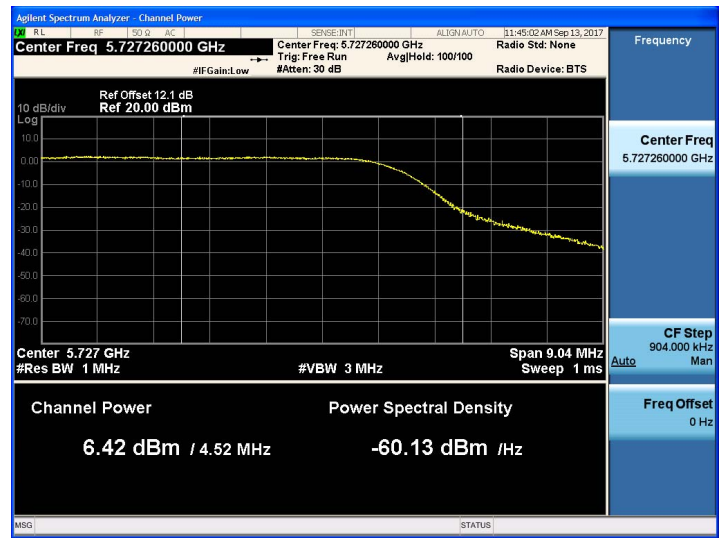
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	6.42	0.201	6.62	23.77
802.11n			6.91	0.061	6.97	23.86
802.11ac			6.88	0.087	6.97	23.93

Straddle channels TEST Plot for 802.11a/n_HT20_Ant 1

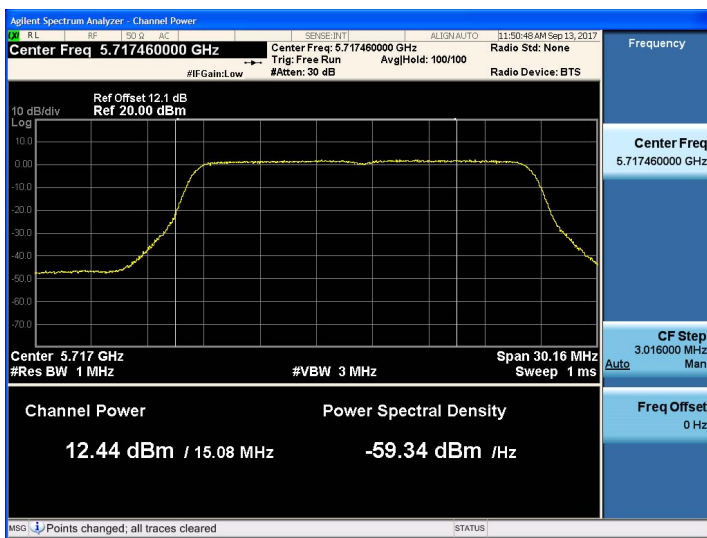
802.11a UNII 2C Band Average Power CH.144



802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144

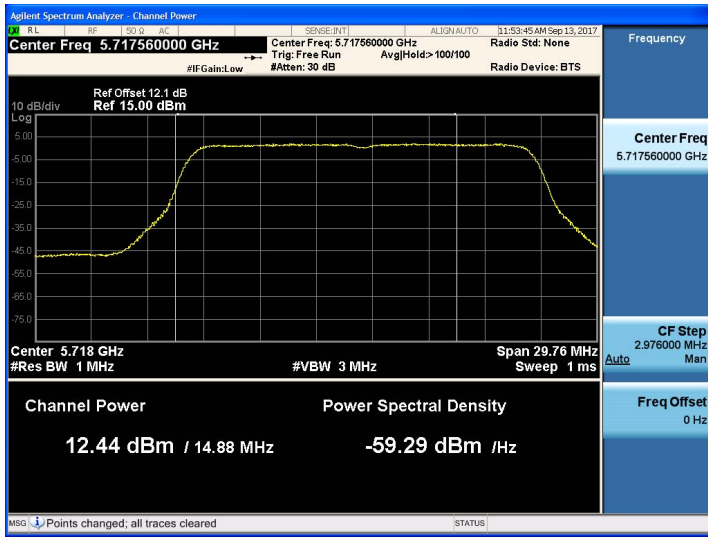


802.11n_HT20 UNII 3 Band Average Power CH.144



Straddle channels TEST Plot for 802.11ac_VHT20_Ant 1

802.11ac_VHT20 UNII 2C Band Average Power CH.144



802.11ac_VHT20 UNII 3 Band Average Power CH.144



Straddle channels TEST RESULTS_Ant 2

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

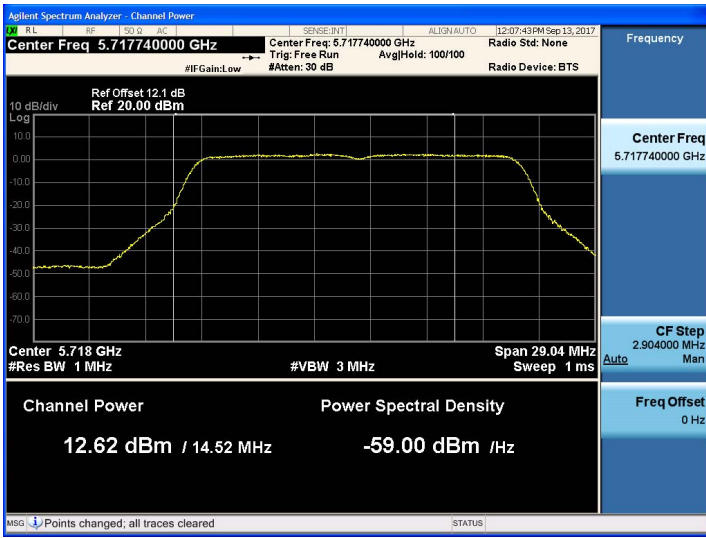
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	12.62	0.209	12.83	22.83
802.11n			12.54	0.091	12.63	22.75
802.11ac			12.58	0.058	12.64	22.77

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	6.49	0.209	6.70	23.67
802.11n			6.94	0.091	7.03	23.93
802.11ac			7.01	0.058	7.07	23.85

Straddle channels TEST Plot for 802.11a/n_HT20_Ant 2

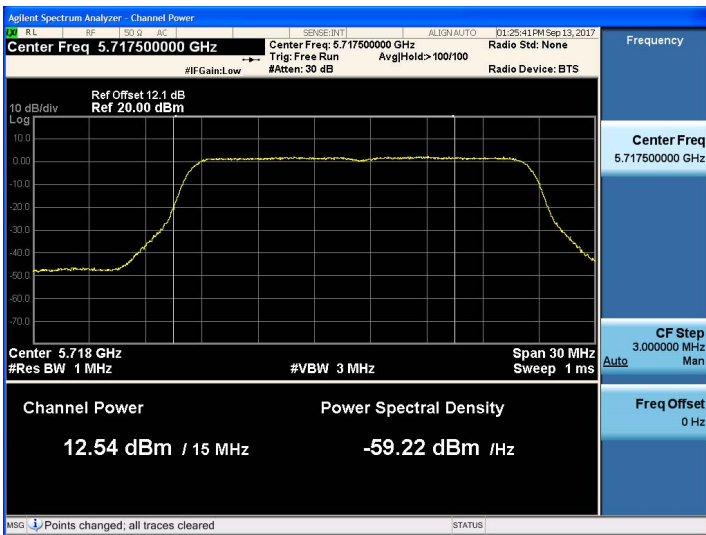
802.11a UNII 2C Band Average Power CH.144



802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144

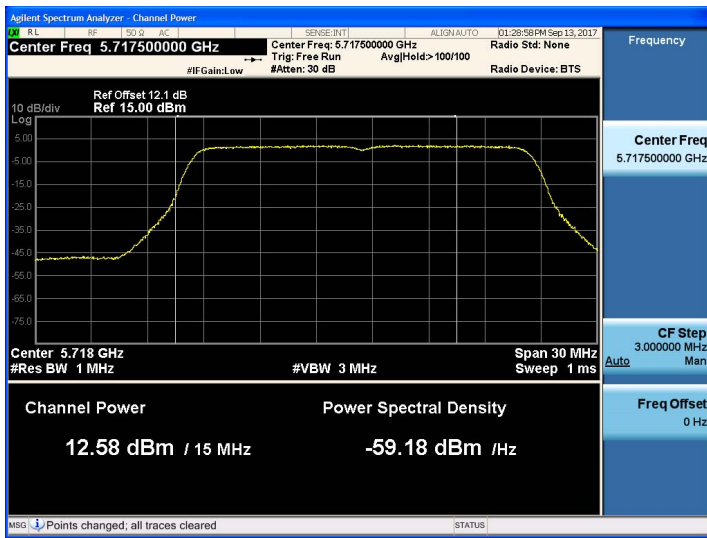


802.11n_HT20 UNII 3 Band Average Power CH.144

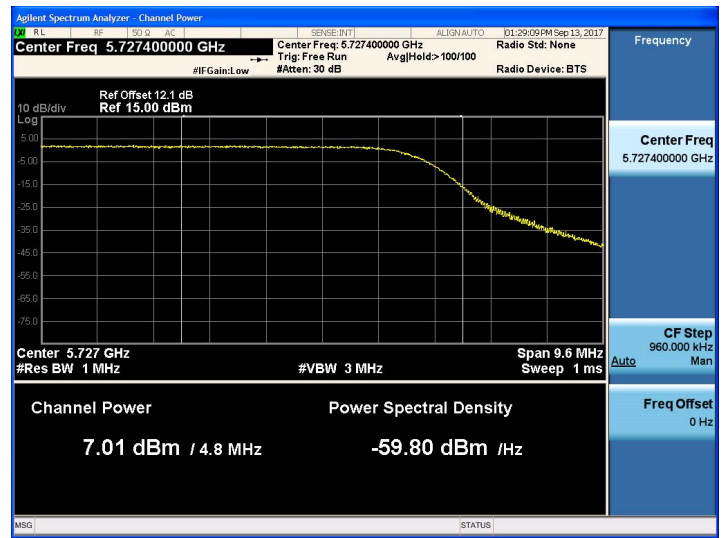


Straddle channels TEST Plot for 802.11ac_VHT20_Ant 2

802.11ac_VHT20 UNII 2C Band Average Power CH.144



802.11ac_VHT20 UNII 3 Band Average Power CH.144



Straddle channels TEST RESULTS_Ant 3

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

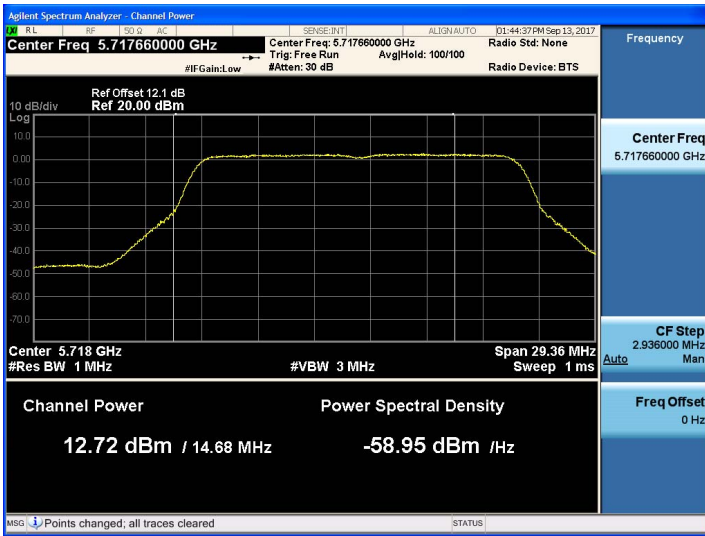
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	12.72	0.144	12.86	22.82
802.11n			12.60	0.096	12.70	22.70
802.11ac			12.64	0.078	12.72	22.78

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720	144	6.61	0.144	6.75	23.69
802.11n			7.02	0.096	7.12	24.06
802.11ac			7.03	0.078	7.11	23.82

Straddle channels TEST Plot for 802.11a/n_HT20_Ant 3

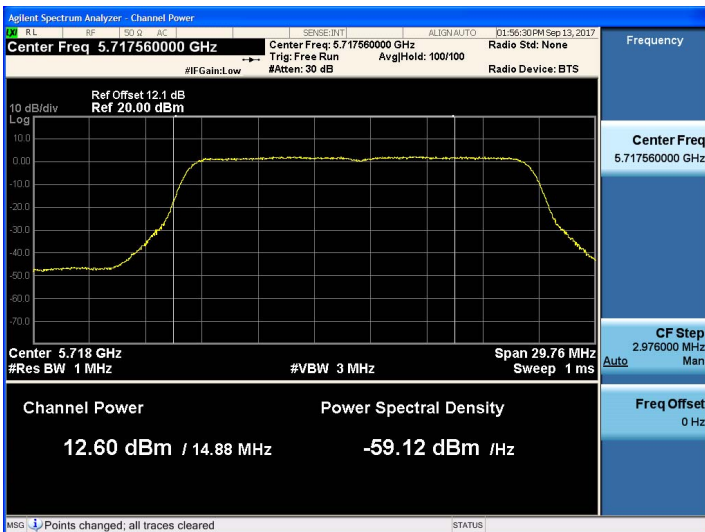
802.11a UNII 2C Band Average Power CH.144



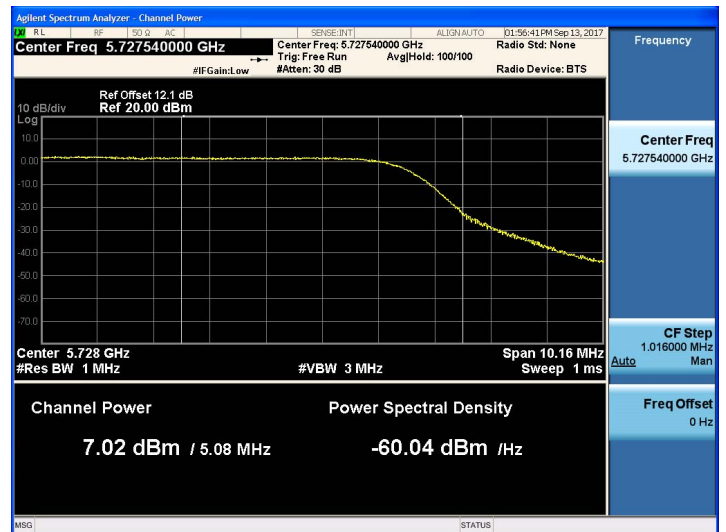
802.11a UNII 3 Band Average Power CH.144



802.11n_HT20 UNII 2C Band Average Power CH.144

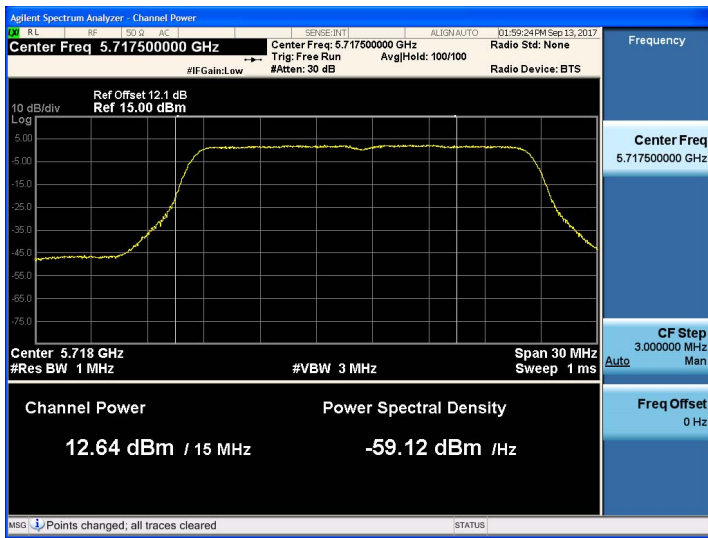


802.11n_HT20 UNII 3 Band Average Power CH.144



Straddle channels TEST Plot for 802.11ac_VHT20_Ant 3

802.11ac_VHT20 UNII 2C Band Average Power CH.144



802.11ac_VHT20 UNII 3 Band Average Power CH.144



Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 2C Band 5720MHz)

Mode (MIMO)	Frequency [MHz]	Channel No.	Sum Power of Ant.0 & 1 & 2 & 3	Limit (dBm)
802.11a	5720	144	18.86	21.69
802.11n			18.68	21.61
802.11ac			18.71	21.63

Conducted Output Power Measurements (802.11a/n_HT20/ac_VHT20 Mode: UNII 3 Band 5720MHz)

Mode (MIMO)	Frequency [MHz]	Channel No.	Sum Power of Ant.0 & 1 & 2 & 3	Limit (dBm)
802.11a	5720	144	12.73	21.11
802.11n			13.11	23.93
802.11ac			13.16	21.28

Straddle channels TEST RESULTS_Ant 0

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	14.39	0.228	14.62	23.43
802.11ac			14.65	0.139	14.79	23.40

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

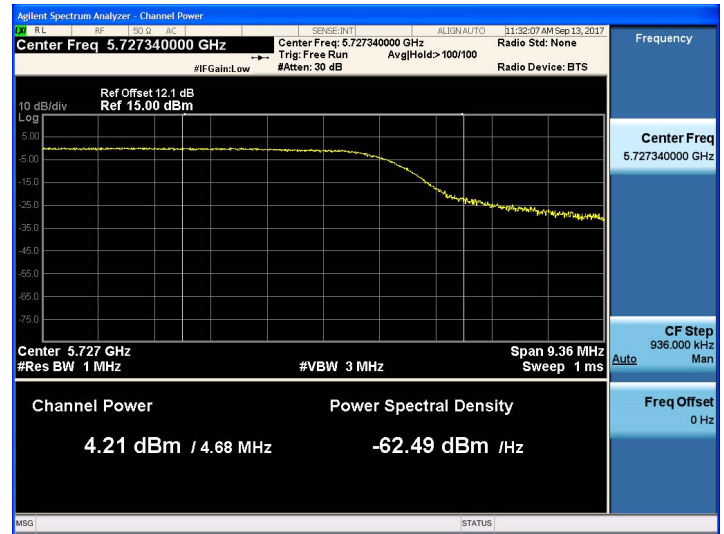
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	4.21	0.228	4.44	20.77
802.11ac			4.51	0.139	4.65	20.96

Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 0

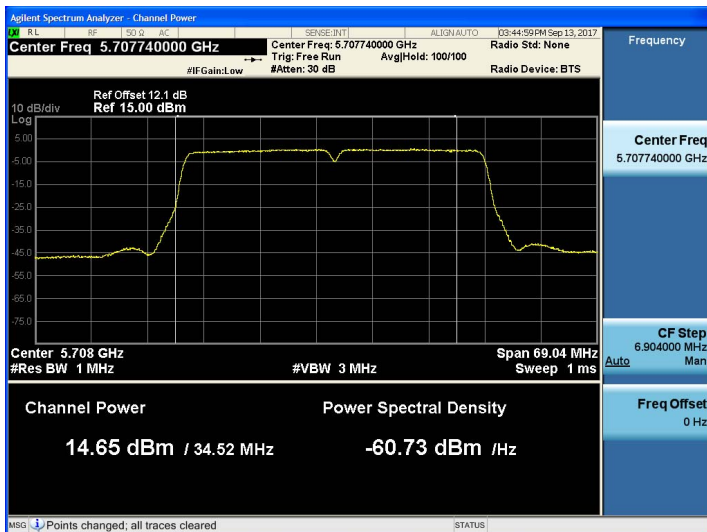
802.11n_HT40 UNII 2C Band Average Power CH.142



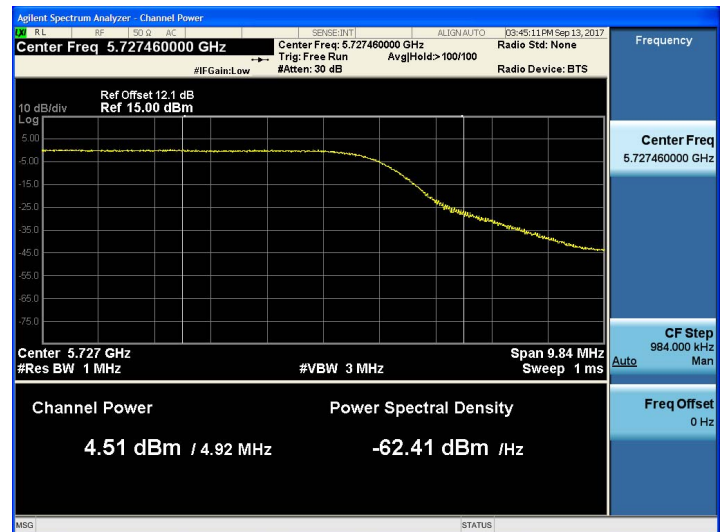
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



Straddle channels TEST RESULTS_Ant 1

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

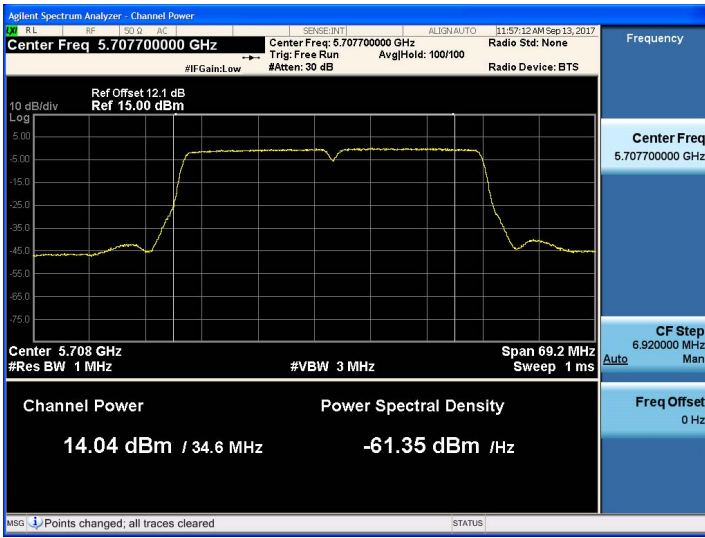
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	14.04	0.117	14.16	23.42
802.11ac			13.92	0.245	14.16	23.42

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	3.88	0.117	4.00	20.83
802.11ac			3.62	0.245	3.86	20.84

Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 1

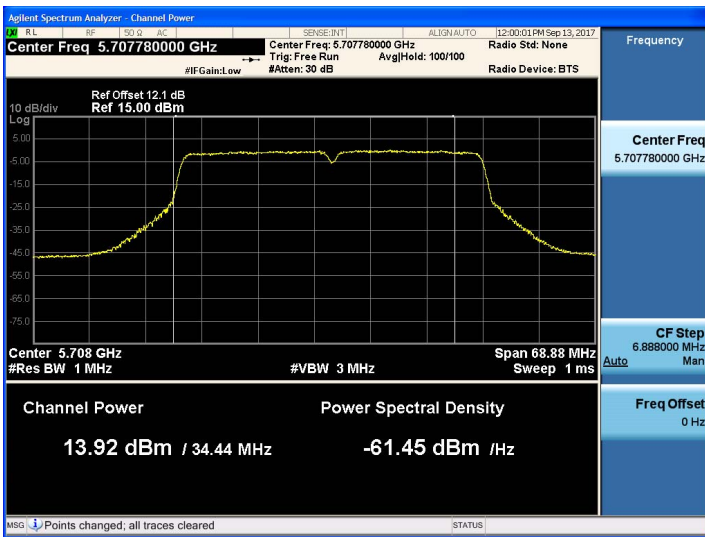
802.11n_HT40 UNII 2C Band Average Power CH.142



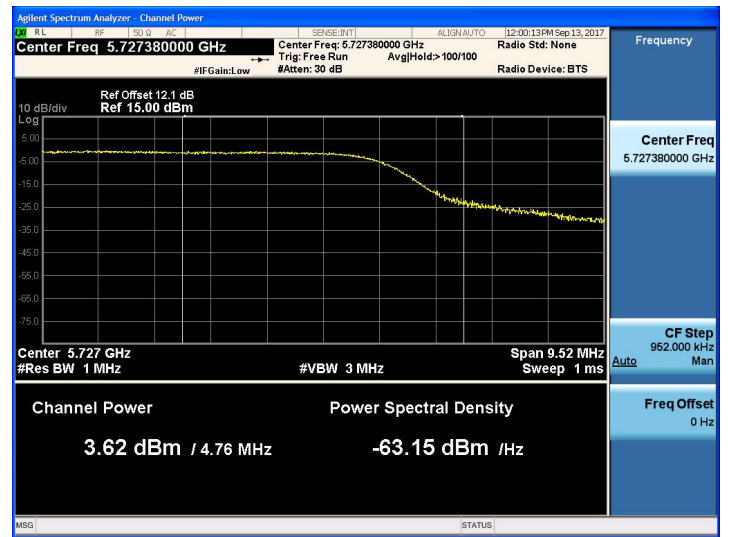
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



Straddle channels TEST RESULTS_Ant 2

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

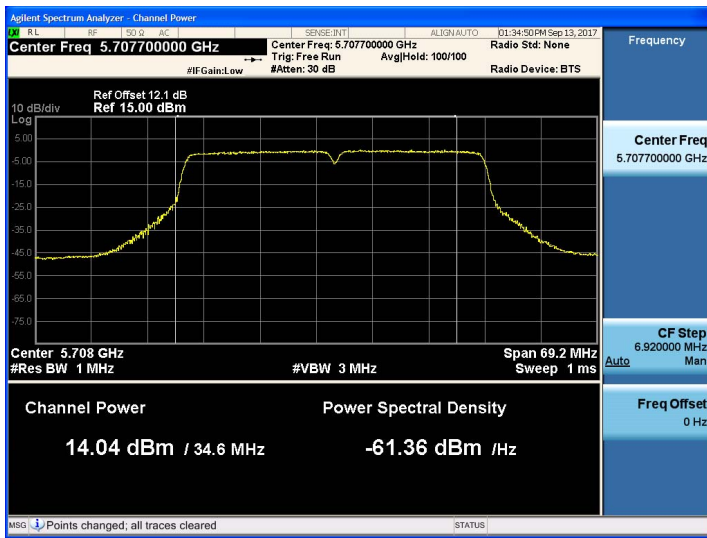
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	14.04	0.212	14.25	23.41
802.11ac			14.13	0.117	14.25	23.43

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

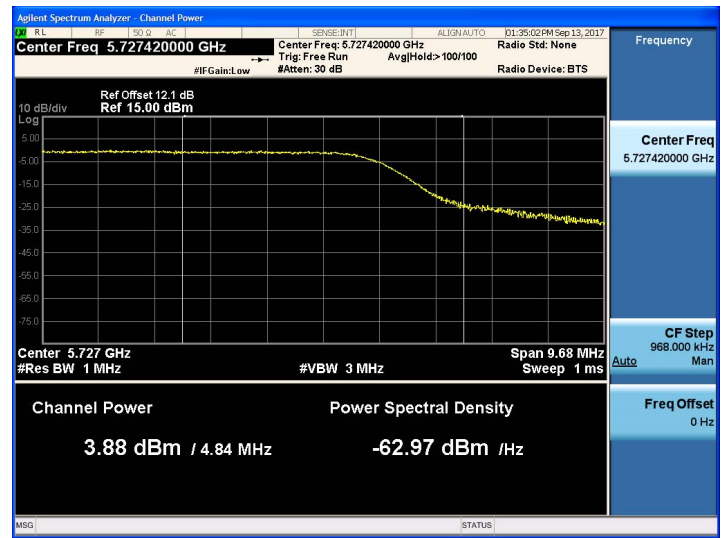
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	3.88	0.212	4.09	20.89
802.11ac			3.84	0.117	3.96	20.73

Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 2

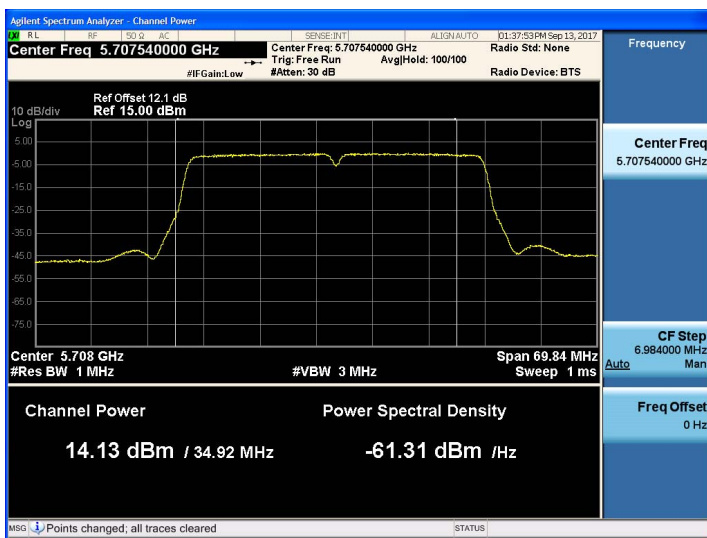
802.11n_HT40 UNII 2C Band Average Power CH.142



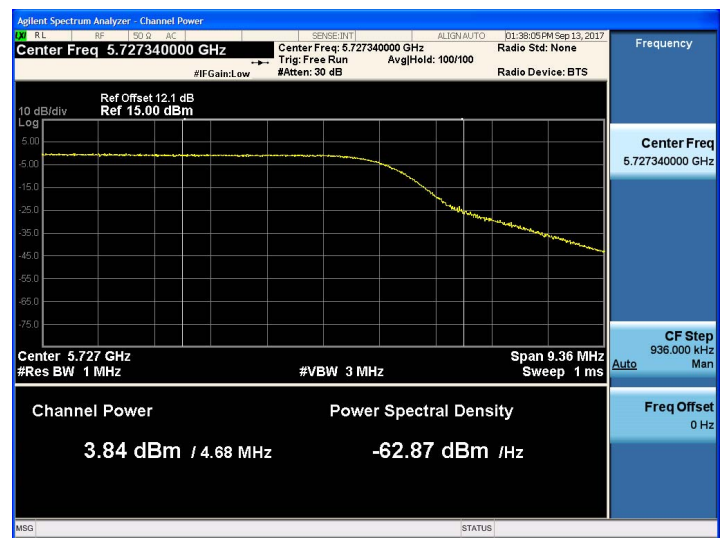
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



Straddle channels TEST RESULTS_Ant 3

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	14.26	0.117	14.38	23.42
802.11ac			14.02	0.324	14.34	23.41

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n	5710	142	4.02	0.117	4.14	20.82
802.11ac			3.87	0.324	4.19	20.87

Straddle channels TEST Plot for 802.11n_HT40/ac_VHT40_Ant 3

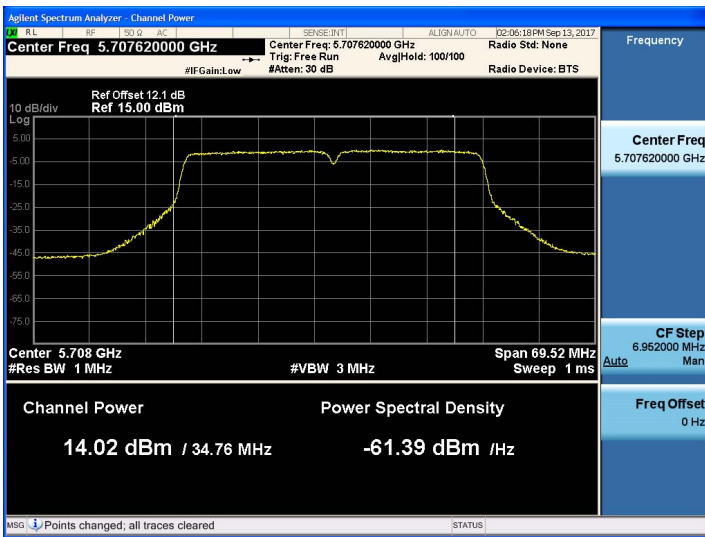
802.11n_HT40 UNII 2C Band Average Power CH.142



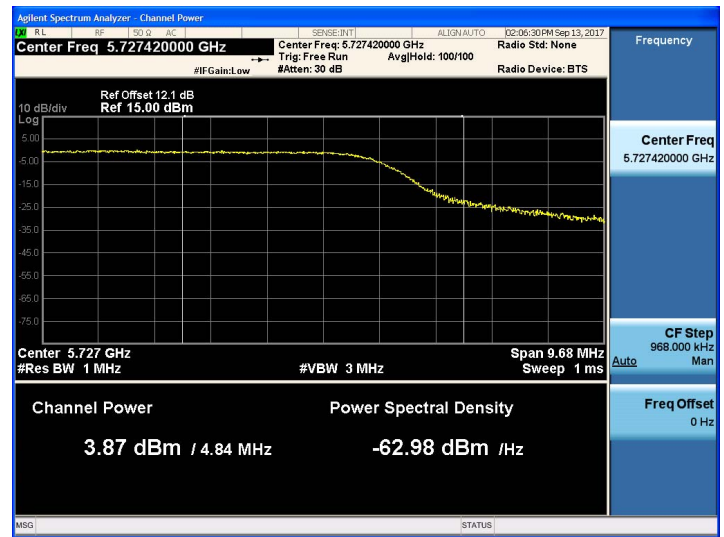
802.11n_HT40 UNII 3 Band Average Power CH.142



802.11ac_VHT40 UNII 2C Band Average Power CH.142



802.11ac_VHT40 UNII 3 Band Average Power CH.142



Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 2C Band 5710MHz)

Mode (MIMO)	Frequency [MHz]	Channel No.	Sum Power of Ant.0 & 1 & 2 & 3	Limit (dBm)
802.11n	5710	142	20.37	22.28
802.11ac			20.41	18.32

Conducted Output Power Measurements (802.11n_HT40/ac_VHT40 Mode: UNII 3 Band 5710MHz)

Mode (MIMO)	Frequency [MHz]	Channel No.	Sum Power of Ant.0 & 1	Limit (dBm)
802.11n	5710	142	10.19	18.32
802.11ac			10.19	18.16

Straddle channels TEST RESULTS_Ant 0

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)

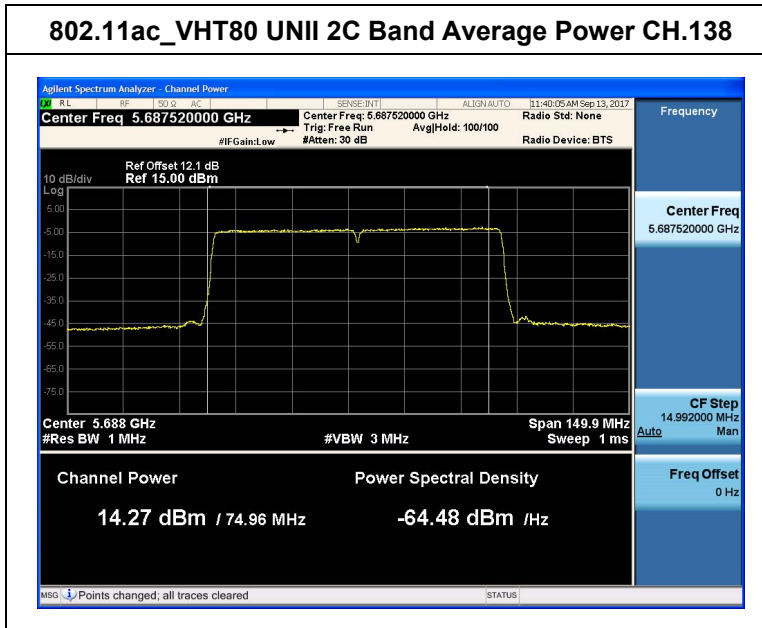
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	14.27	0.226	14.50	23.70

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)

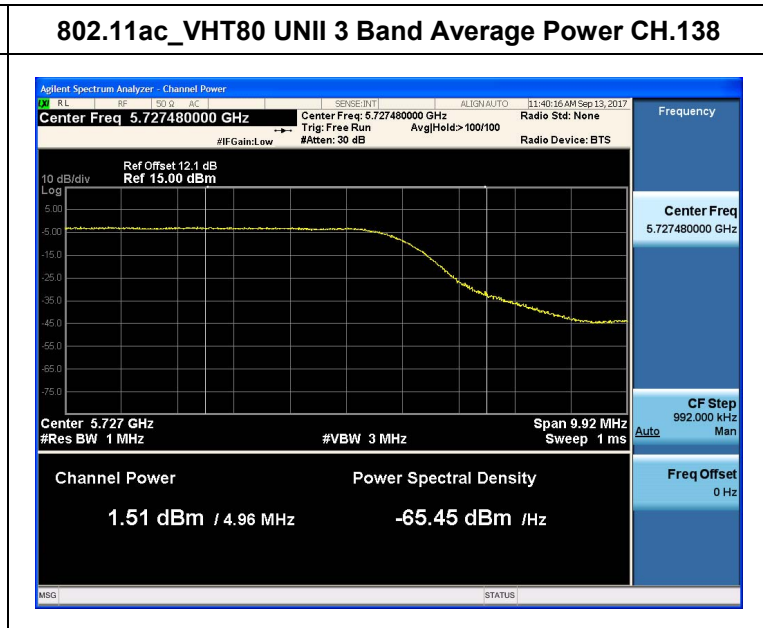
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	1.51	0.226	1.74	17.93

Straddle channels TEST Plot for 802.11ac_VHT80_Ant 0

802.11ac_VHT80 UNII 2C Band Average Power CH.138



802.11ac_VHT80 UNII 3 Band Average Power CH.138



Straddle channels TEST RESULTS_Ant 1

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)

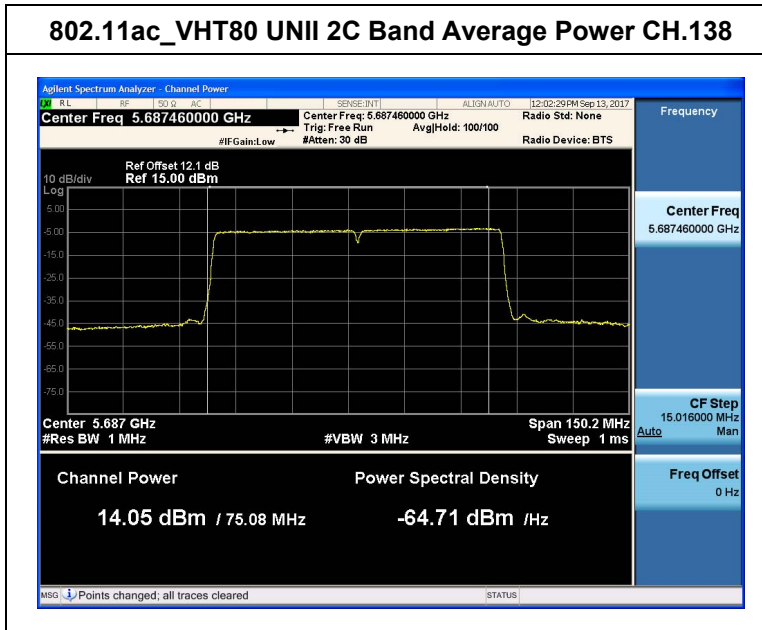
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	14.05	0.227	14.28	23.70

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)

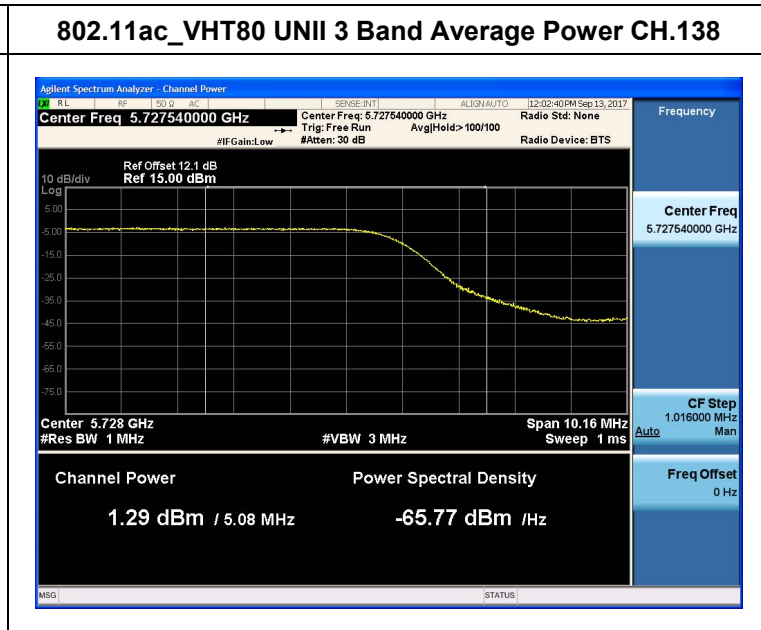
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	1.29	0.227	1.52	18.02

Straddle channels TEST Plot for 802.11ac_VHT80_Ant 1

802.11ac_VHT80 UNII 2C Band Average Power CH.138



802.11ac_VHT80 UNII 3 Band Average Power CH.138



Straddle channels TEST RESULTS_Ant 2

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)

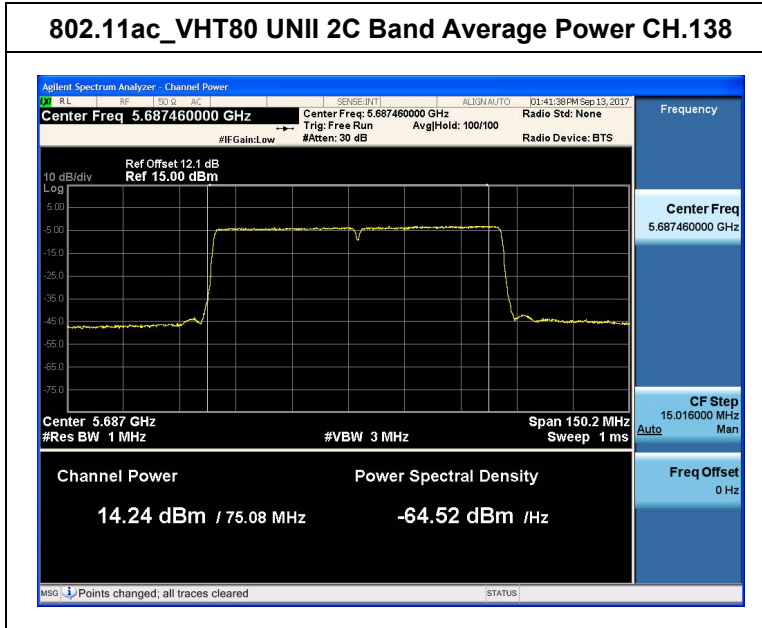
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	14.24	0.235	14.47	23.70

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)

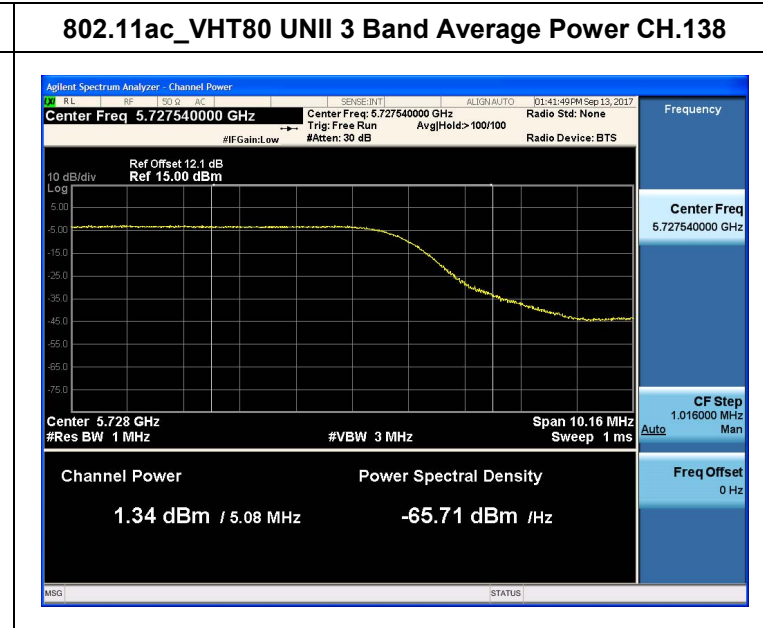
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	1.34	0.235	1.57	18.02

Straddle channels TEST Plot for 802.11ac_VHT80_Ant 2

802.11ac_VHT80 UNII 2C Band Average Power CH.138



802.11ac_VHT80 UNII 3 Band Average Power CH.138



Straddle channels TEST RESULTS_Ant 3

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 2C Band 5690MHz)

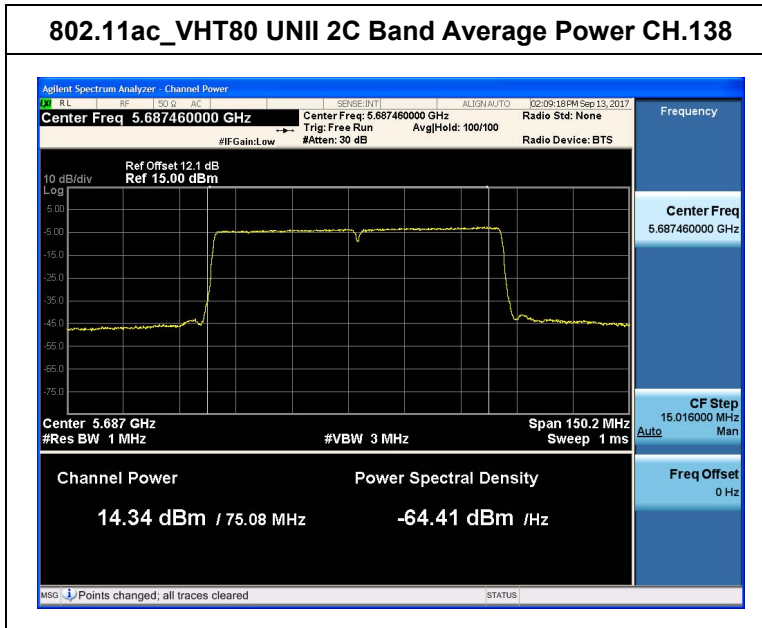
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	14.34	0.223	14.56	23.70

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)

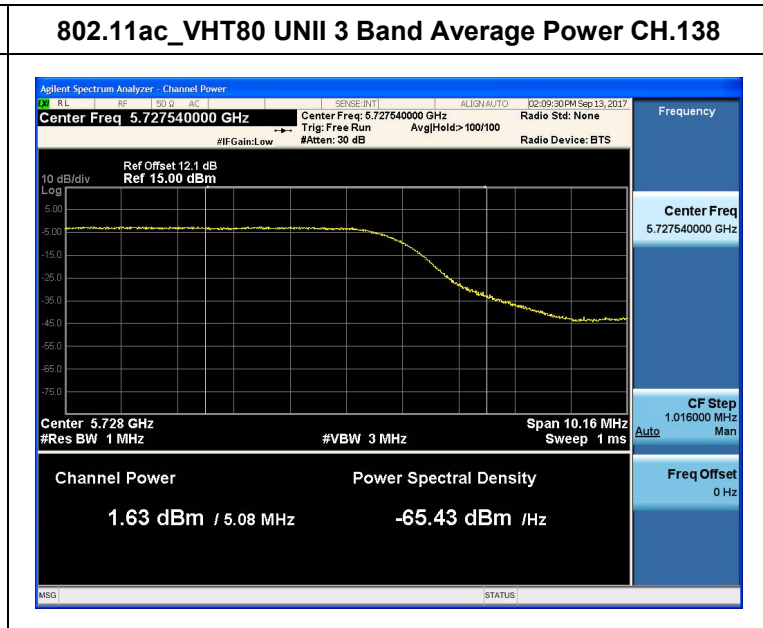
Mode	Frequency [MHz]	Channel No.	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac	5690	138	1.63	0.223	1.85	18.02

Straddle channels TEST Plot for 802.11ac_VHT80_Ant 3

802.11ac_VHT80 UNII 2C Band Average Power CH.138



802.11ac_VHT80 UNII 3 Band Average Power CH.138



Straddle channels TEST RESULTS_ Sum Data of Ant.0 and Ant.1 and Ant.2 and Ant.3**Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)**

Mode (MIMO)	Frequency [MHz]	Channel No.	Sum Power of Ant.0 & 1	Limit (dBm)
802.11ac	5690	138	20.47	22.56

Conducted Output Power Measurements (802.11ac_VHT80 Mode: UNII 3 Band 5690MHz)

Mode (MIMO)	Frequency [MHz]	Channel No.	Sum Power of Ant.0 & 1	Limit (dBm)
802.11ac	5690	138	1.85	15.45

[Directional]

Ant.0

802.11a (UNII 1)

TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a(20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	14.79	0.13	14.93	30
		9	14.75	0.20	14.95	30
		12	14.71	0.28	14.99	30
		18	14.58	0.39	14.97	30
		24	14.78	0.49	15.27	30
		36	14.49	0.75	15.24	30
		48	14.31	0.90	15.21	30
		54	14.20	1.02	15.22	30
5200	40	6	14.81	0.13	14.94	30
		9	14.75	0.20	14.95	30
		12	14.65	0.28	14.93	30
		18	14.55	0.39	14.94	30
		24	14.71	0.49	15.20	30
		36	14.43	0.75	15.18	30
		48	14.27	0.90	15.17	30
		54	14.17	1.02	15.20	30
5240	48	6	14.61	0.13	14.74	30
		9	14.56	0.20	14.76	30
		12	14.45	0.28	14.73	30
		18	14.36	0.39	14.75	30
		24	14.52	0.49	15.02	30
		36	14.25	0.75	15.00	30
		48	14.07	0.90	14.97	30
		54	13.97	1.02	15.00	30

Ant.1

802.11a (UNII 1)

TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a(20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	15.36	0.13	15.50	30
		9	15.31	0.20	15.51	30
		12	15.22	0.28	15.50	30
		18	15.14	0.39	15.53	30
		24	15.32	0.49	15.82	30
		36	15.05	0.75	15.80	30
		48	14.87	0.90	15.77	30
		54	14.77	1.02	15.80	30
5200	40	6	15.32	0.13	15.46	30
		9	15.26	0.20	15.46	30
		12	15.16	0.28	15.44	30
		18	15.06	0.39	15.45	30
		24	15.19	0.49	15.68	30
		36	14.93	0.75	15.68	30
		48	14.78	0.90	15.67	30
		54	14.65	1.02	15.68	30
5240	48	6	15.09	0.13	15.23	30
		9	15.02	0.20	15.22	30
		12	14.93	0.28	15.21	30
		18	14.86	0.39	15.25	30
		24	14.98	0.49	15.48	30
		36	14.71	0.75	15.46	30
		48	14.52	0.90	15.41	30
		54	14.42	1.02	15.45	30

Ant.2

802.11a (UNII 1)

TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a(20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	14.88	0.13	15.01	30
		9	14.83	0.20	15.03	30
		12	14.79	0.28	15.07	30
		18	14.68	0.39	15.06	30
		24	14.89	0.49	15.39	30
		36	14.58	0.75	15.33	30
		48	14.41	0.90	15.31	30
		54	14.30	1.02	15.32	30
5200	40	6	14.93	0.13	15.07	30
		9	14.87	0.20	15.07	30
		12	14.80	0.28	15.08	30
		18	14.72	0.39	15.11	30
		24	14.89	0.49	15.38	30
		36	14.62	0.75	15.37	30
		48	14.45	0.90	15.35	30
		54	14.35	1.02	15.37	30
5240	48	6	14.68	0.13	14.81	30
		9	14.65	0.20	14.85	30
		12	14.51	0.28	14.79	30
		18	14.45	0.39	14.84	30
		24	14.62	0.49	15.11	30
		36	14.32	0.75	15.07	30
		48	14.18	0.90	15.08	30
		54	14.08	1.02	15.11	30

Ant.3

802.11a (UNII 1)

TEST RESULTS

Conducted Output Power Measurements (802.11a Mode: 5180~5240)

802.11a(20MHz) Mode		Rate (Mbps)	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
Frequency [MHz]	Channel No.					
5180	36	6	14.88	0.13	15.02	30
		9	14.81	0.20	15.01	30
		12	14.82	0.28	15.10	30
		18	14.69	0.39	15.08	30
		24	14.82	0.49	15.31	30
		36	14.55	0.75	15.30	30
		48	14.39	0.90	15.29	30
		54	14.27	1.02	15.29	30
5200	40	6	14.93	0.13	15.06	30
		9	14.85	0.20	15.05	30
		12	14.77	0.28	15.05	30
		18	14.68	0.39	15.07	30
		24	14.88	0.49	15.37	30
		36	14.59	0.75	15.34	30
		48	14.45	0.90	15.34	30
		54	14.35	1.02	15.37	30
5240	48	6	14.69	0.13	14.82	30
		9	14.65	0.20	14.85	30
		12	14.50	0.28	14.78	30
		18	14.47	0.39	14.85	30
		24	14.59	0.49	15.09	30
		36	14.33	0.75	15.08	30
		48	14.10	0.90	15.00	30
		54	14.03	1.02	15.06	30