

[Ant1]

■ Test Plots (26dB Bandwidth)

802.11a UNII Band



802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



■ Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



[Ant2]

■ Test Plots (26dB Bandwidth)

802.11a UNII Band



802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



■ Test Plots (26dB Bandwidth)

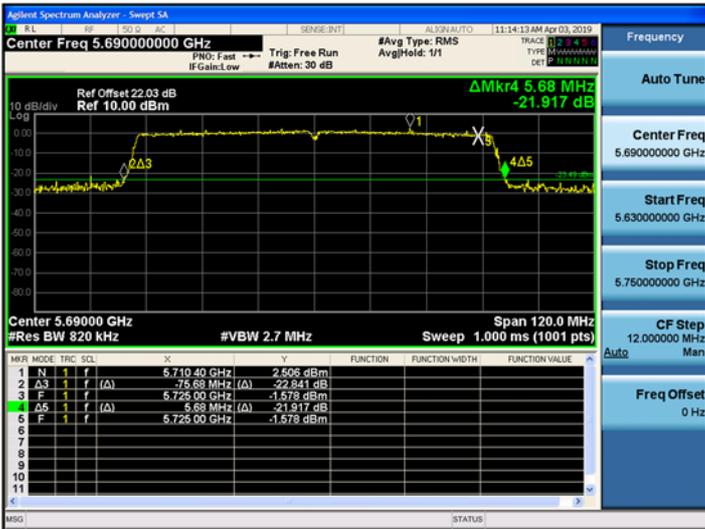
802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.6.2 6dB Bandwidth

[Ant1]

Mode	Frequency [MHz]	Channel No.	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	5720 (UNII 3 Band)	144	5728.16	3.16	> 0.5
802.11n(HT20)			5728.80	3.80	> 0.5
802.11ac(VHT20)			5728.80	3.80	> 0.5

Mode	Frequency [MHz]	Channel No.	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	5710 (UNII 3 Band)	142	5728.16	3.16	> 0.5
802.11ac(VHT40)			5728.21	3.21	> 0.5

Mode	Frequency [MHz]	Channel No.	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	5690 (UNII 3 Band)	138	5728.29	3.29	> 0.5

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

[Ant2]

Mode	Frequency [MHz]	Channel No.	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	5720	144	5728.17	3.17	> 0.5
802.11n(HT20)	(UNII 3		5728.82	3.82	> 0.5
802.11ac(VHT20)	Band)		5728.60	3.60	> 0.5

Mode	Frequency [MHz]	Channel No.	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	5710	142	5728.23	3.23	> 0.5
802.11ac(VHT40)	(UNII 3 Band)		5728.22	3.22	> 0.5

Mode	Frequency [MHz]	Channel No.	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	5690 (UNII 3 Band)	138	5728.28	3.28	> 0.5

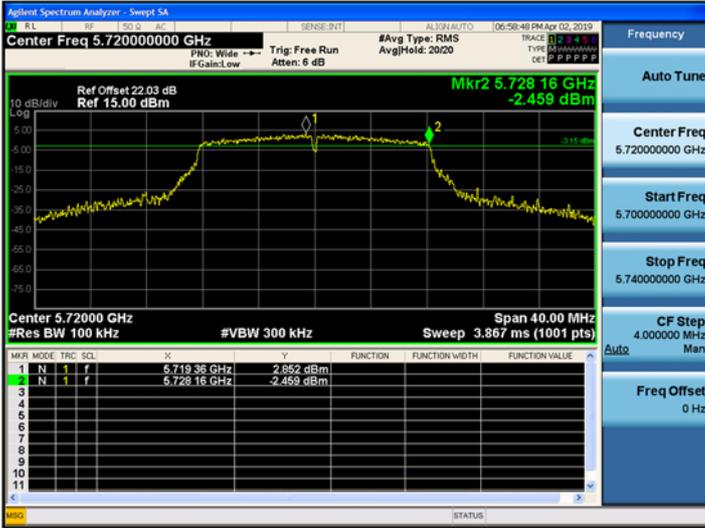
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6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

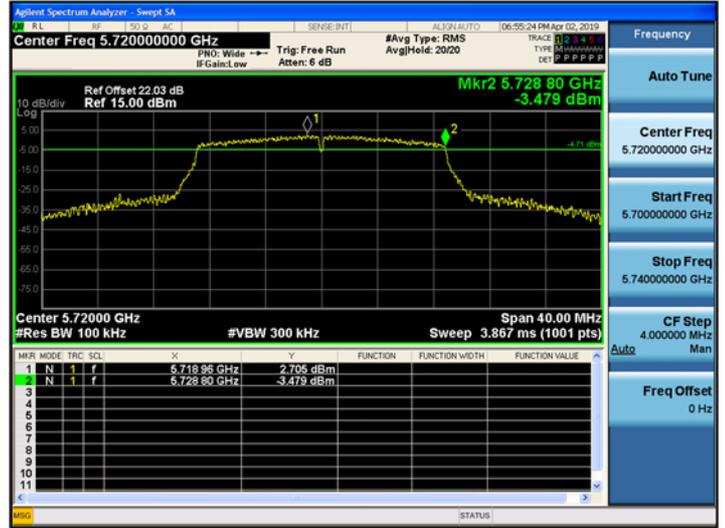
[Ant1]

Test Plots(UNII 3 Band 6dB Bandwidth)

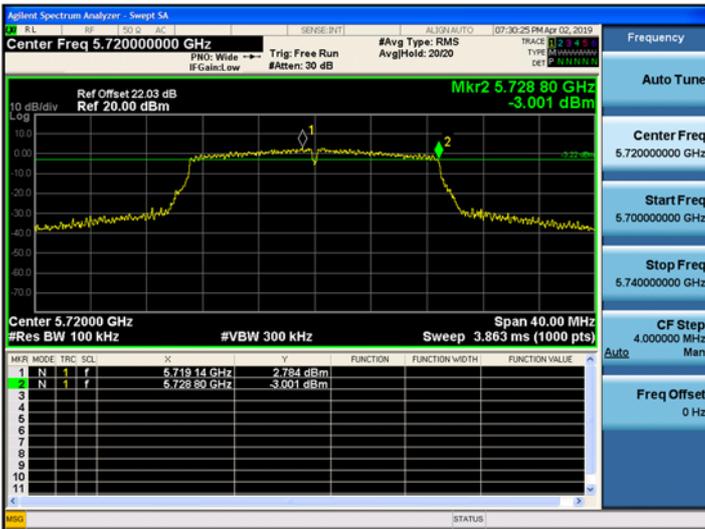
802.11a CH.144



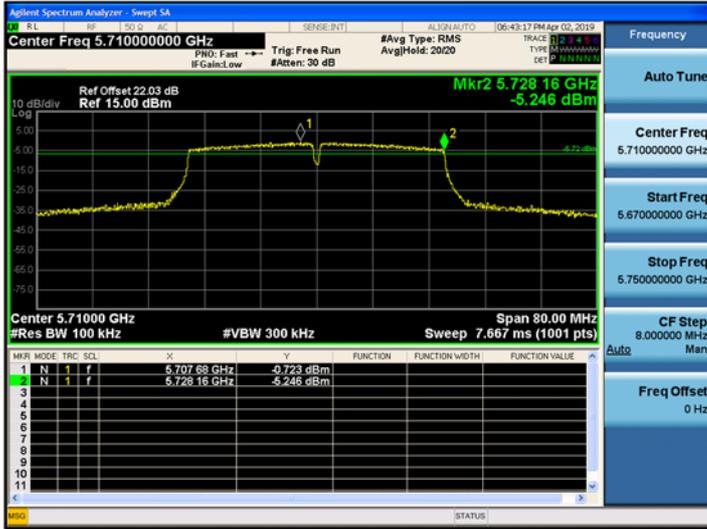
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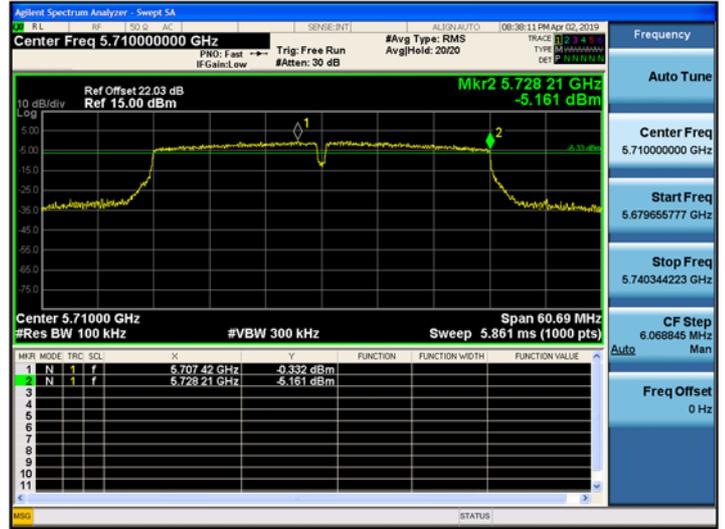
802.11ac_VHT20 CH.144



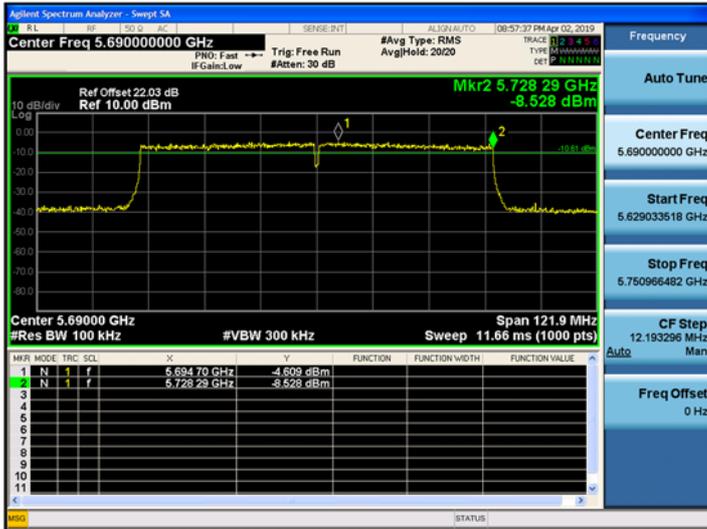
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138

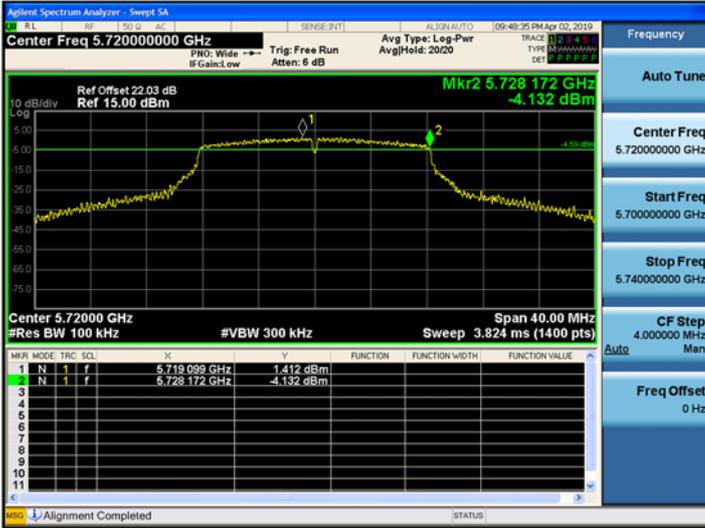


Report No.: HCT-RF-1904-FI004

[Ant2]

Test Plots(UNII 3 Band 6dB Bandwidth)

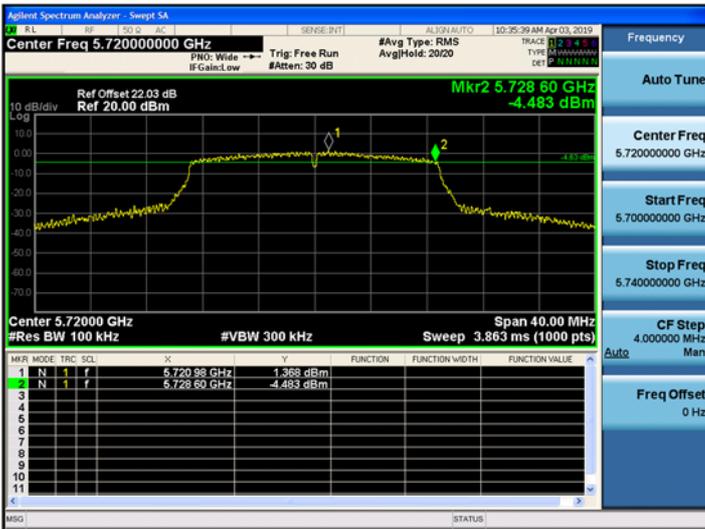
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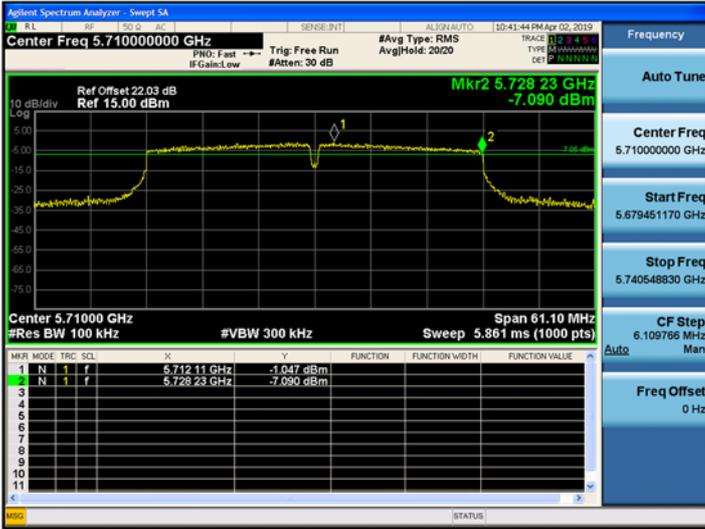
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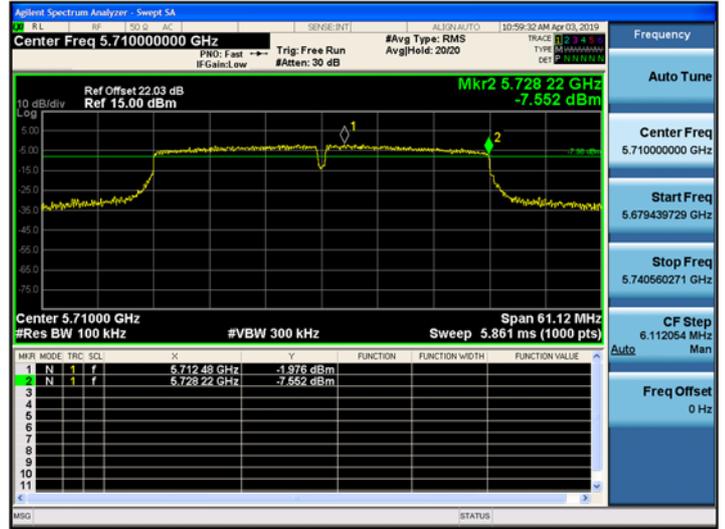
802.11ac_VHT20 CH.144



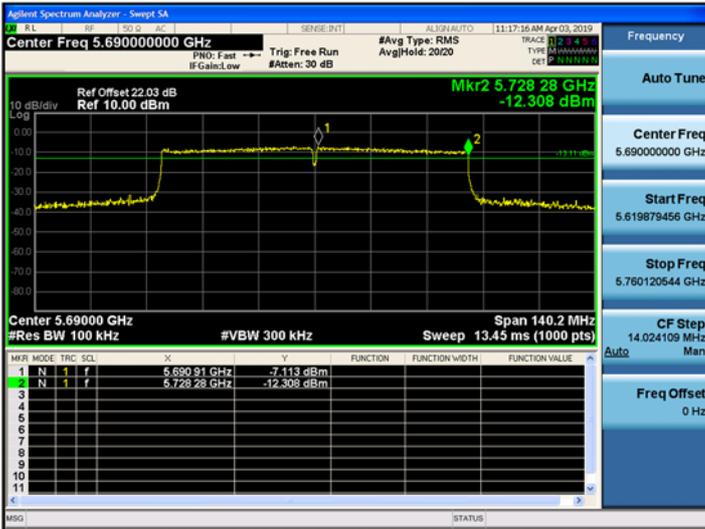
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.6.3 Output Power

[Ant1]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	15.19	-	15.19	23.96
802.11n(HT20)			14.73	-	14.73	24.02
802.11ac(VHT20)			14.96	-	14.96	24.06
802.11a	5720 (UNII 3 Band)	144	7.52	-	7.52	30.00
802.11n(HT20)			7.59	-	7.59	30.00
802.11ac(VHT20)			7.82	-	7.82	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	15.66	-	15.66	27.05
802.11ac(VHT40)			15.44	-	15.44	27.09
802.11n(HT40)	5710 (UNII 3 Band)	142	4.14	-	4.14	30.00
802.11ac(VHT40)			3.93	-	3.93	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	12.70	-	12.70	30.07
	5690 (UNII 3 Band)	138	-0.90	-	-0.90	30.00

[Ant2]

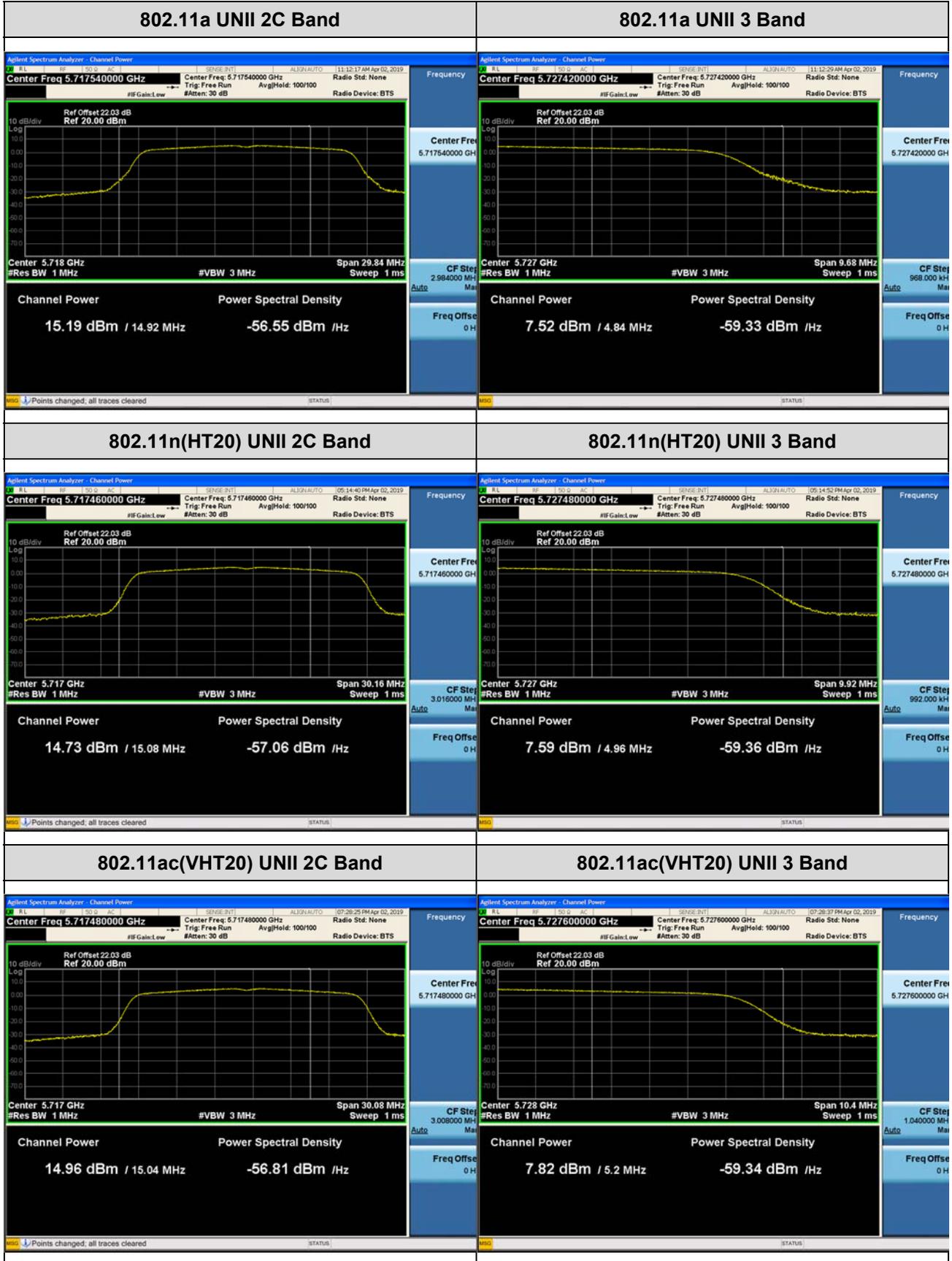
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	14.13	-	14.13	24.02
802.11n(HT20)			14.12	-	14.12	24.10
802.11ac(VHT20)			13.43	-	13.43	24.05
802.11a	5720 (UNII 3 Band)	144	6.47	-	6.47	30.00
802.11n(HT20)			6.95	-	6.95	30.00
802.11ac(VHT20)			6.29	-	6.29	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	14.58	-	14.58	27.12
802.11ac(VHT40)			13.91	-	13.91	27.07
802.11n(HT40)	5710 (UNII 3 Band)	142	2.96	-	2.96	30.00
802.11ac(VHT40)			2.26	-	2.26	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	11.84	-	11.84	30.10
	5690 (UNII 3 Band)	138	-1.98	-	-1.98	30.00

[Ant1]

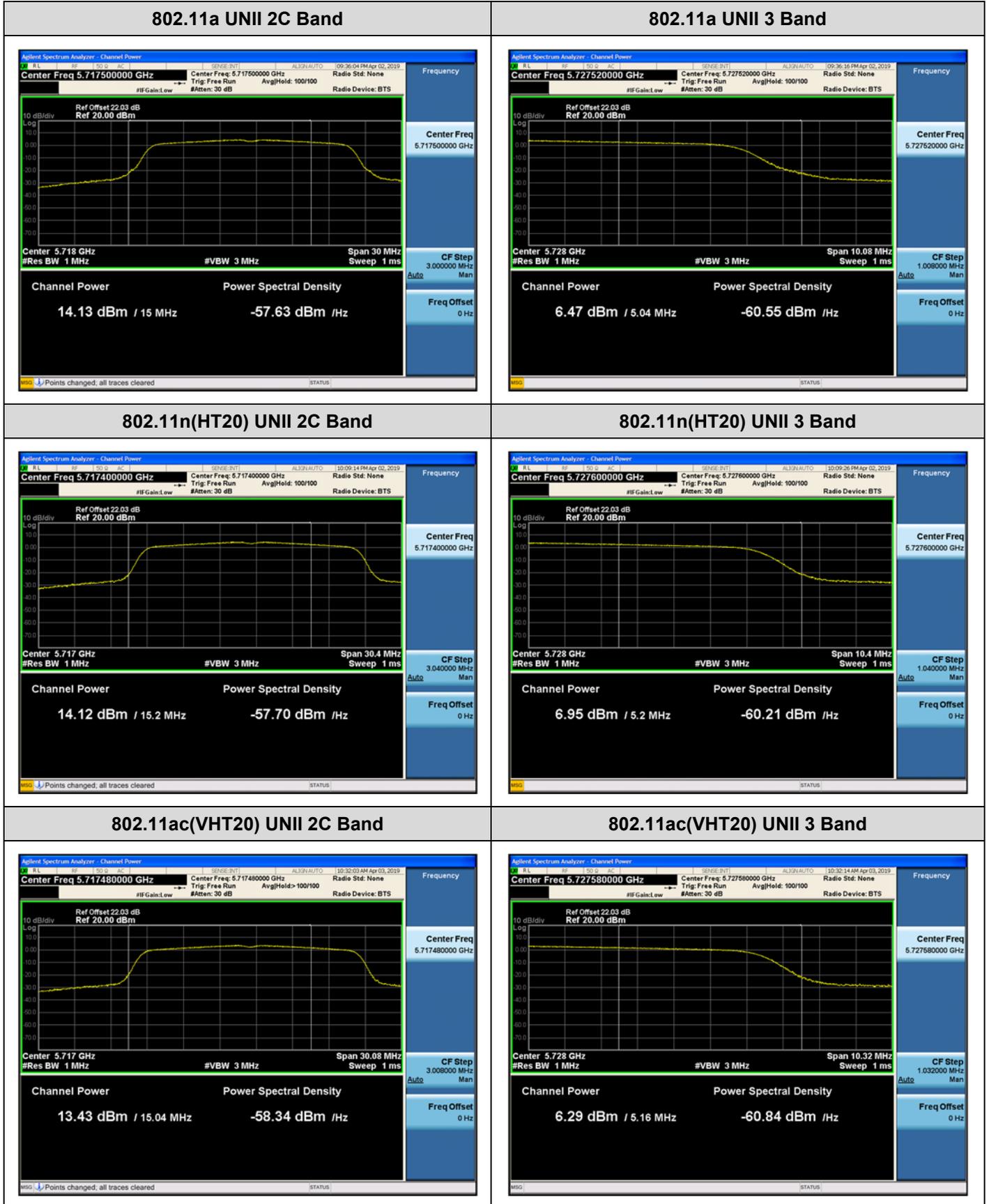
Test Plots





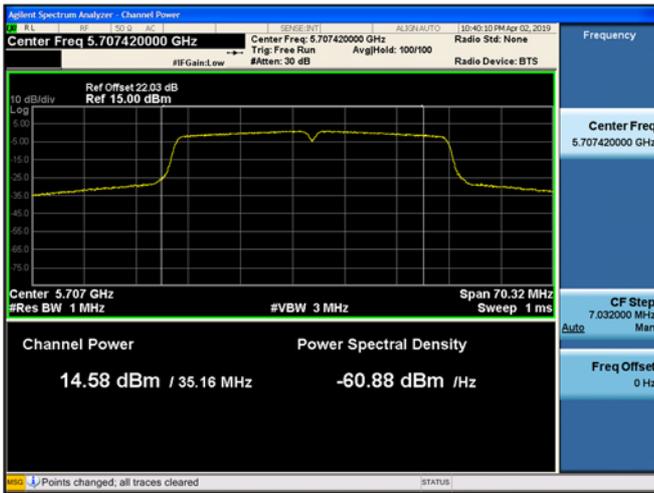
[Ant2]

Test Plots



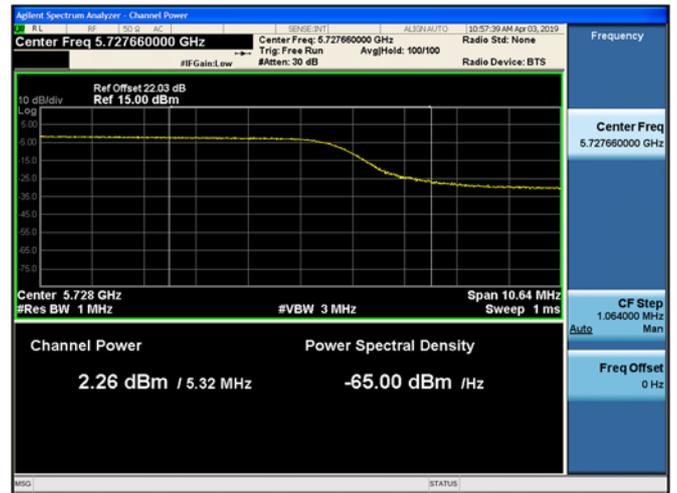
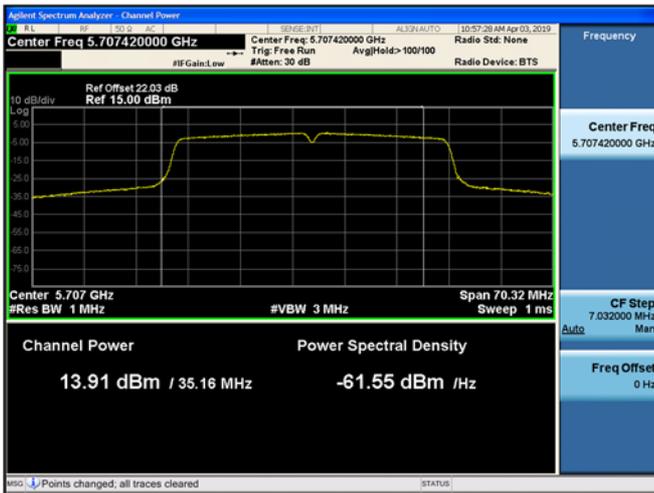
802.11n(HT40) UNII 2C Band

802.11n(HT40) UNII 3 Band



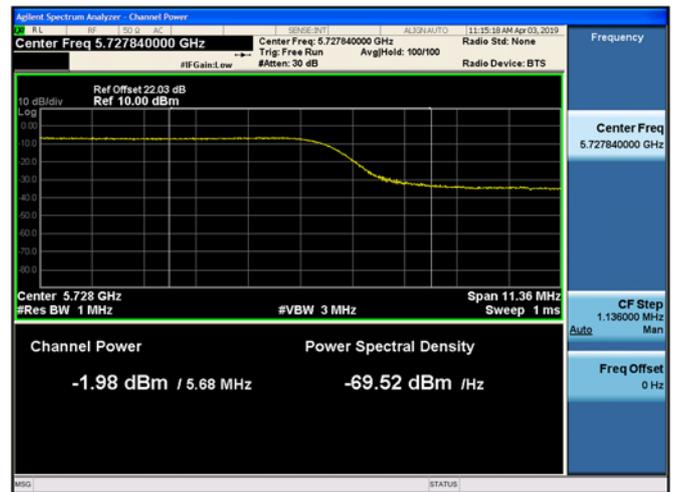
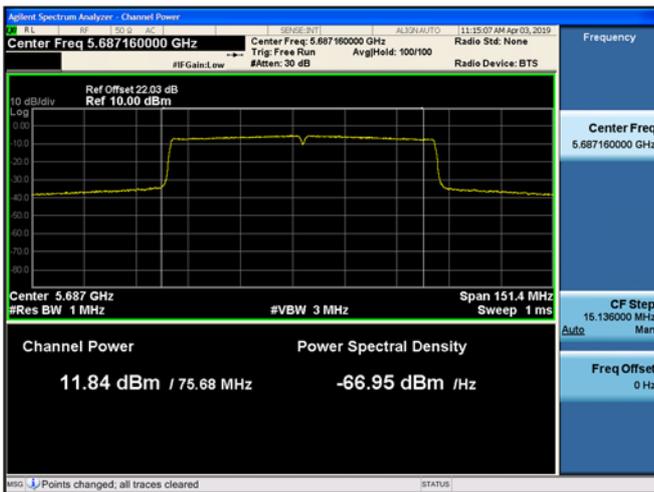
802.11ac(VHT40) UNII 2C Band

802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

802.11ac(VHT80) UNII 3 Band



10.6.4 Power Spectral Density

[Ant1]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.716	0.000	5.716	11.00
802.11n(HT20)			5.119	0.000	5.119	11.00
802.11ac(VHT20)			5.415	0.000	5.415	11.00
802.11a	5720 (UNII 3 Band)	144	0.949	0.000	0.949	30.00
802.11n(HT20)			0.426	0.000	0.426	30.00
802.11ac(VHT20)			0.553	0.000	0.553	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	2.229	0.000	2.229	11.00
802.11ac(VHT40)			2.072	0.000	2.072	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-3.140	0.000	-3.140	30.00
802.11ac(VHT40)			-3.373	0.000	-3.373	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-3.928	0.000	-3.928	11.00
	5690 (UNII 3 Band)	138	-8.635	0.000	-8.635	30.00

[Ant2]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	4.627	0.000	4.627	11.00
802.11n(HT20)			4.591	0.000	4.591	11.00
802.11ac(VHT20)			3.905	0.000	3.905	11.00
802.11a	5720 (UNII 3 Band)	144	0.072	0.000	0.072	30.00
802.11n(HT20)			-0.254	0.000	-0.254	30.00
802.11ac(VHT20)			-1.002	0.000	-1.002	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	1.321	0.000	1.321	11.00
802.11ac(VHT40)			0.465	0.000	0.465	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-4.233	0.000	-4.233	30.00
802.11ac(VHT40)			-5.043	0.000	-5.043	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-5.239	0.000	-5.239	11.00
	5690 (UNII 3 Band)	138	-9.983	0.000	-9.983	30.00

[Ant1]

Test Plots

