

Appendix B

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Beamink DUO

Trade Mark: CVW

Test Model: 3062

Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

B.1 Duty Cycle

Antenna 0

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11N40	5755	100	0.00	0.01

Antenna 1

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11N40	5755	100	0.00	0.01

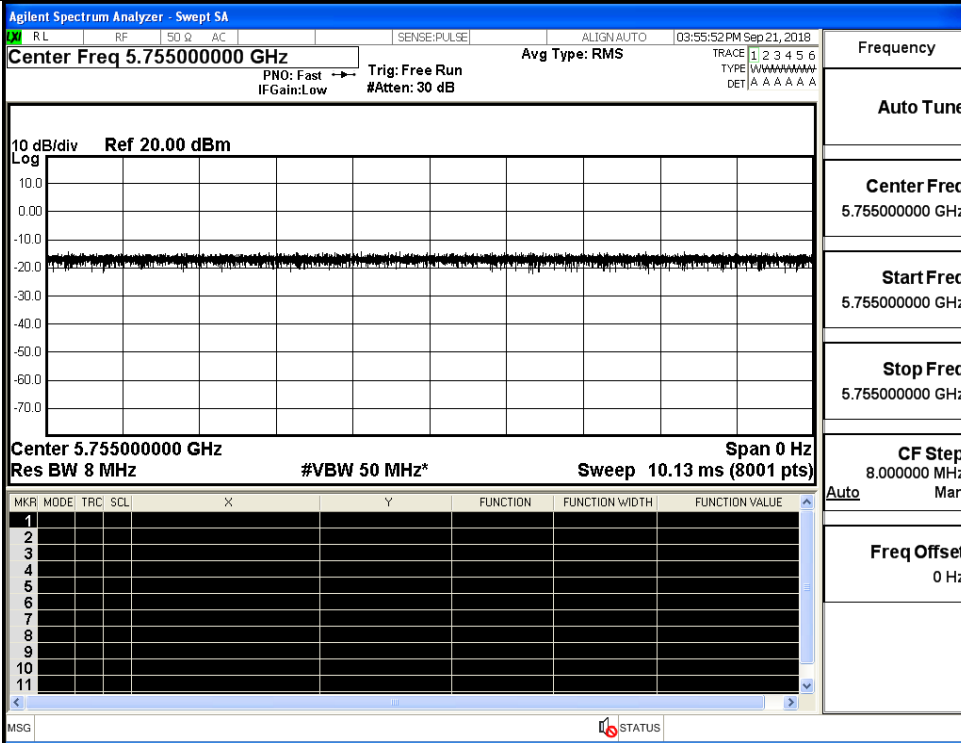
Antenna 2

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11N40	5755	100	0.00	0.01

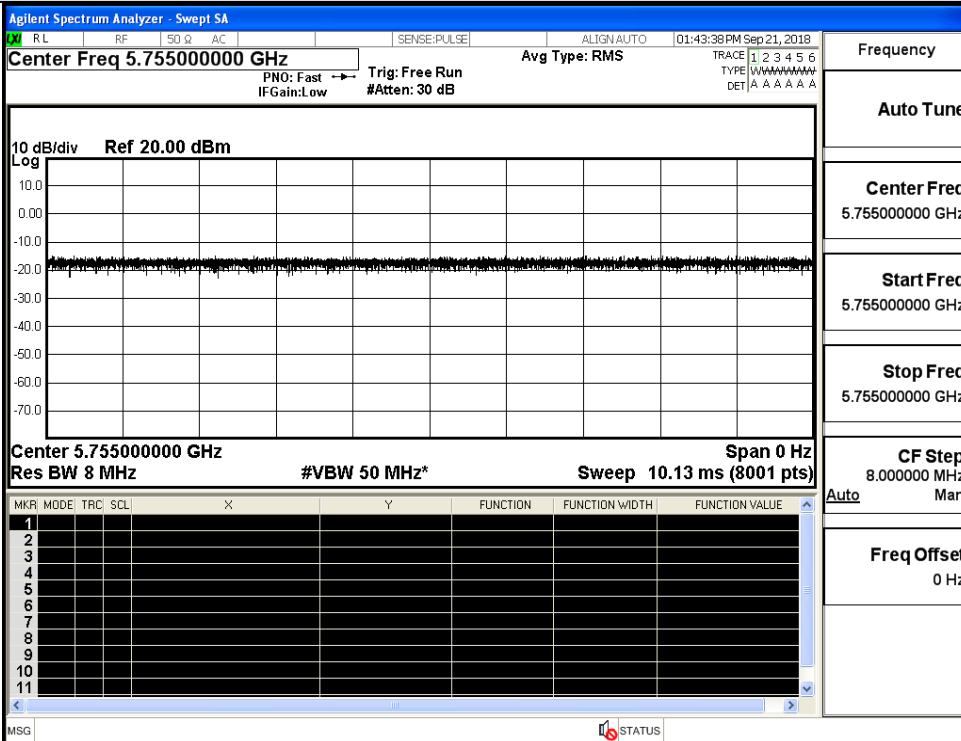
Antenna 3

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11N40	5755	100	0.00	0.01

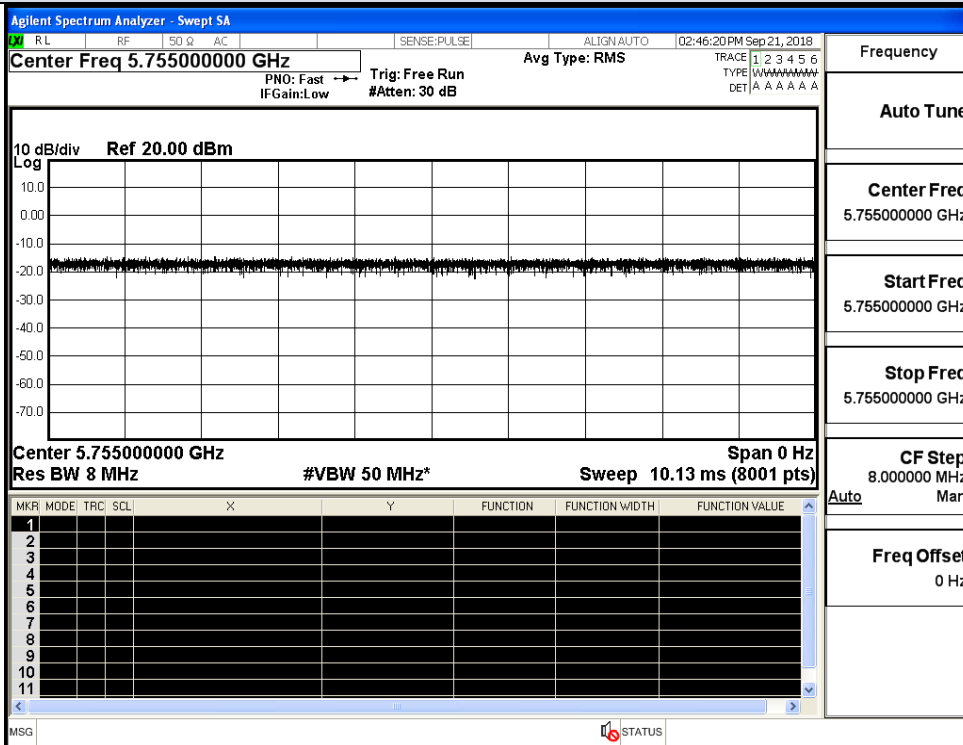
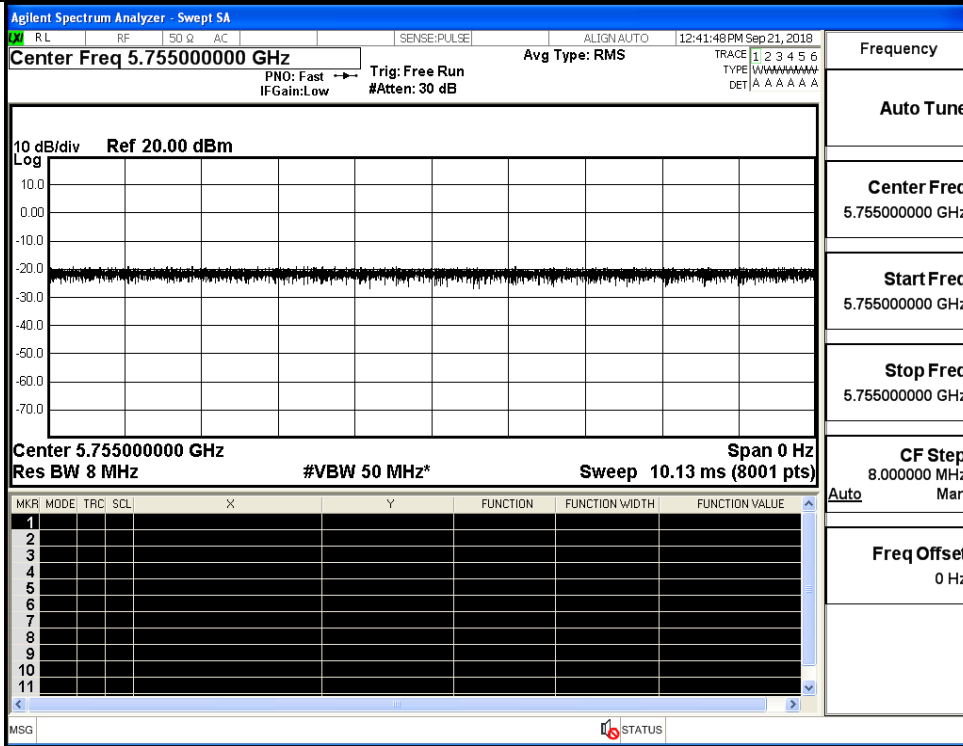
On Time and Duty Cycle



IEEE 802.11n HT40_Ant0



IEEE 802.11n HT40_Ant1



B.2 Maximum Conduct Output Power

Antenna 0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11N40	151	5755	12.41	0	12.41	30
	159	5795	12.67	0	12.67	

Antenna 1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11N40	151	5755	12.32	0	12.32	30
	159	5795	12.29	0	12.29	

Antenna 2

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11N40	151	5755	12.32	0	12.32	30
	159	5795	12.29	0	12.29	

Antenna 3

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11N40	151	5755	12.32	0	12.32	30
	159	5795	12.29	0	12.29	

Antenna 0+Antenna 1+Antenna 2+Antenna 3

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)					Duty Cycle Factor (dB)	Report Conducted Power(dBm)					Limit (dBm)
			Ant0	Ant1	Ant2	Ant3	Sum		Ant0	Ant1	Ant2	Ant3	Sum	
11N40	151	5755	12.41	12.32	12.32	12.32	18.36	0	12.41	12.32	12.32	12.32	18.36	30.00
	159	5795	12.67	12.29	12.29	12.29	18.41	0	12.67	12.29	12.29	12.29	18.41	

B.3 Power Spectral Density

Antenna 0

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)
11N40	151	5755	-13.948	0	2.218	-11.730	30
	159	5795	-15.221	0	2.218	-13.003	

Antenna 1

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)
11N40	151	5755	-14.719	0	2.218	-12.501	30
	159	5795	-14.568	0	2.218	-12.350	

Antenna 2

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)
11N40	151	5755	-14.163	0	2.218	-11.945	30
	159	5795	-14.287	0	2.218	-12.069	

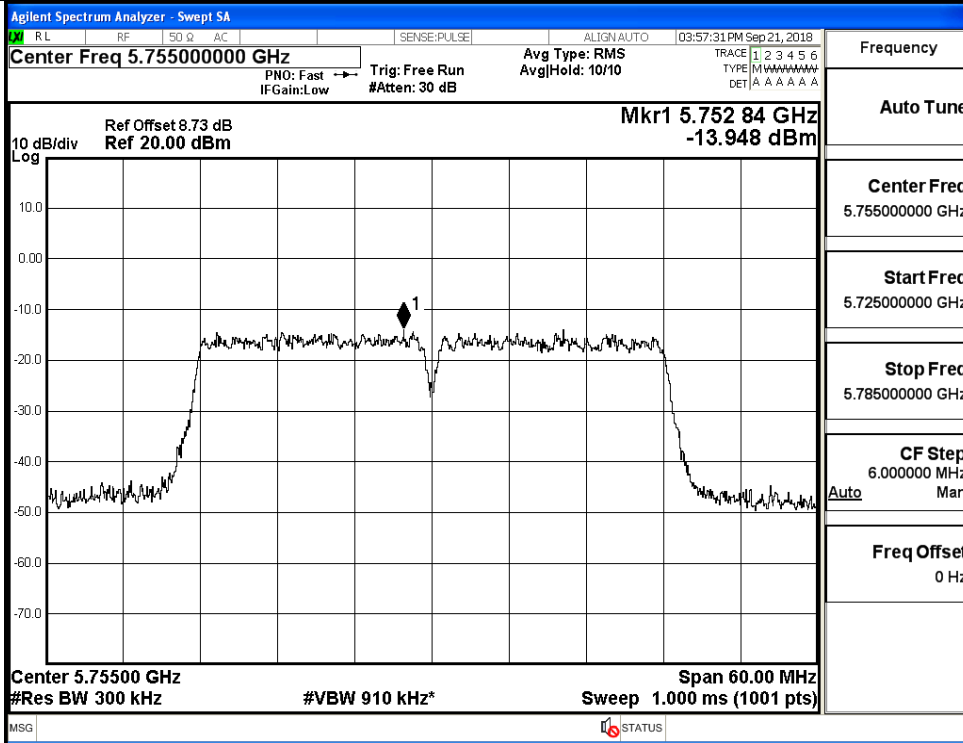
Antenna 3

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)
11N40	151	5755	-13.179	0	2.218	-10.961	30
	159	5795	-13.849	0	2.218	-11.631	

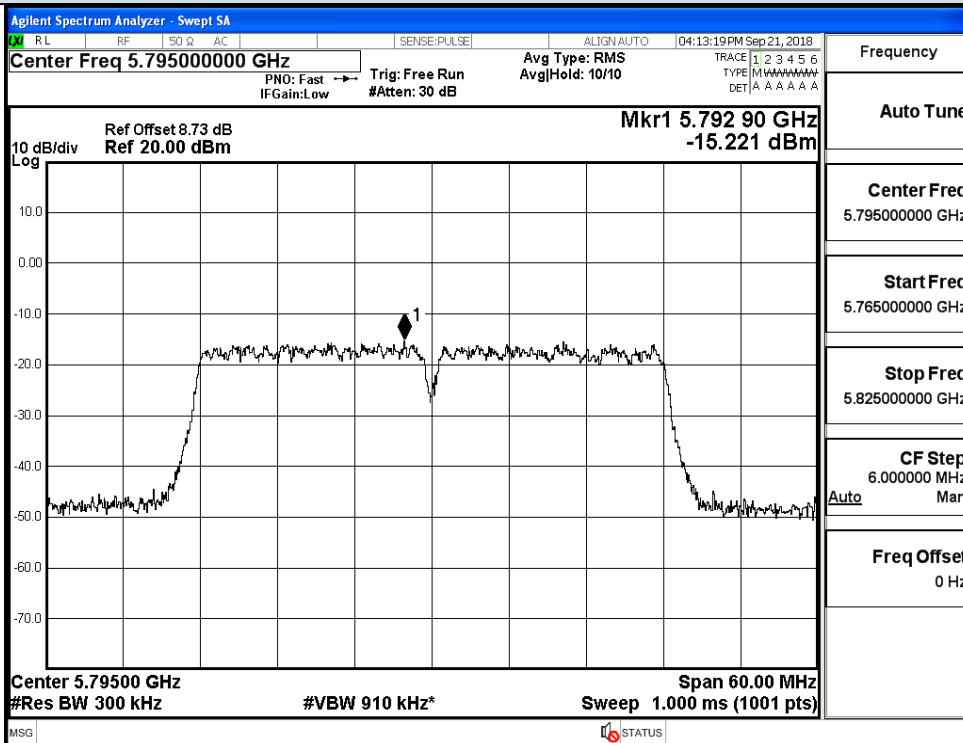
Antenna 0+Antenna 1+Antenna 2+Antenna 3

Test Mode	Channel	Frequency (MHz)	Report Power Density (dBm/MHz)					Duty Cycle Factor (dB)	Limit (dBm/500KHz)
			Ant0	Ant1	Ant2	Ant3	Sum		
11N40	151	5755	-13.948	-14.719	-14.163	-13.179	-7.946	0	24.979
	159	5795	-15.221	-14.568	-14.287	-13.849	-8.432	0	

Power Spectral Density

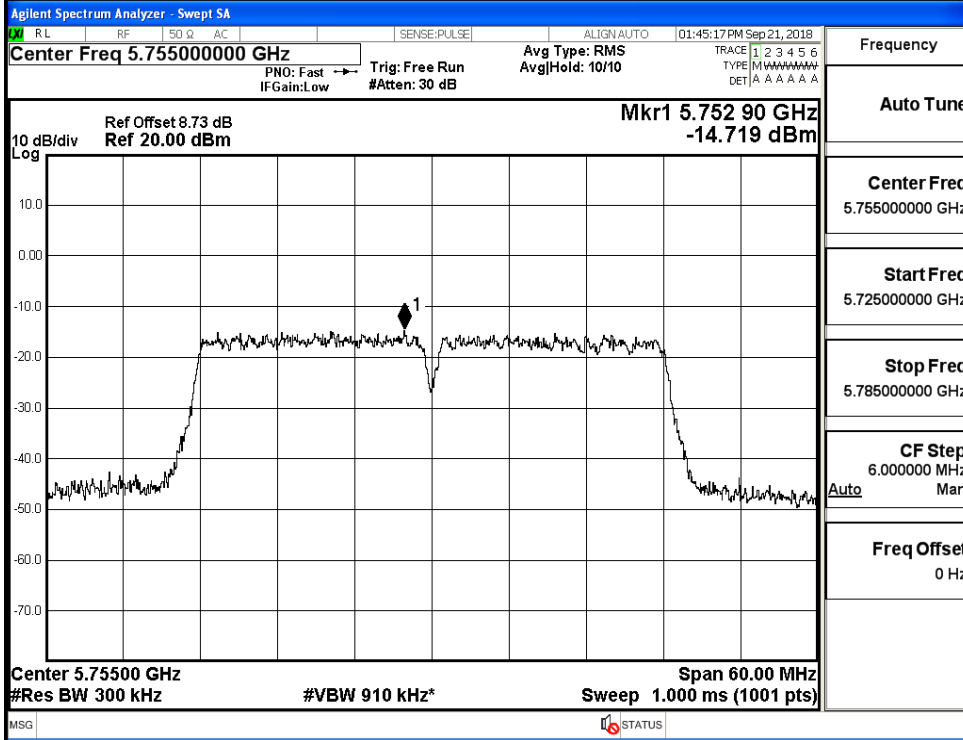


IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant0

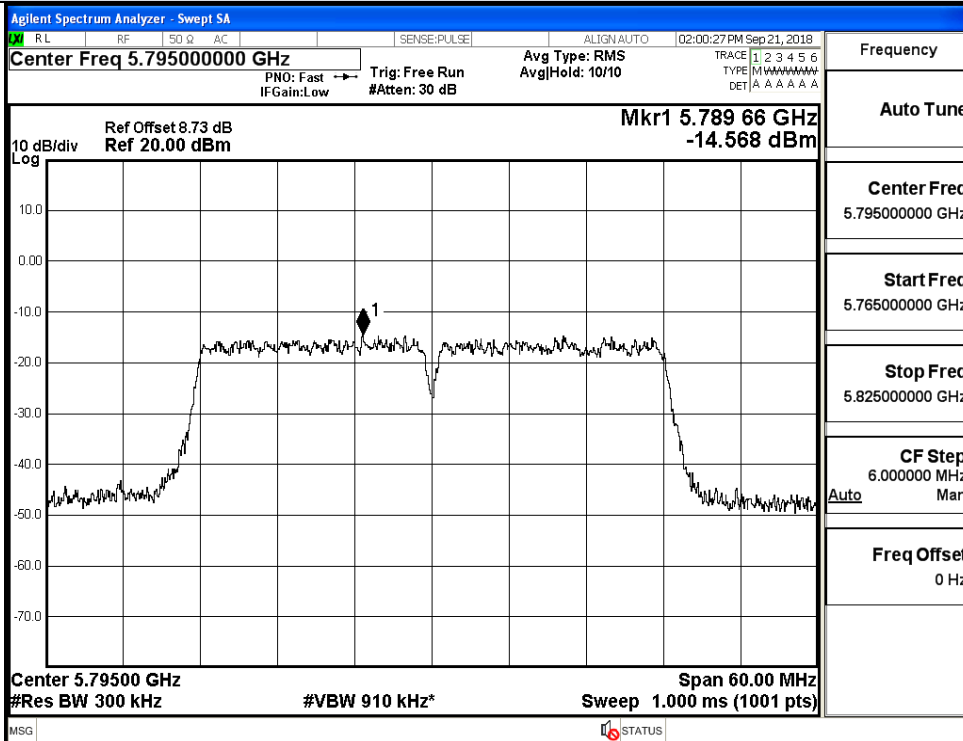


IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant0

Power Spectral Density

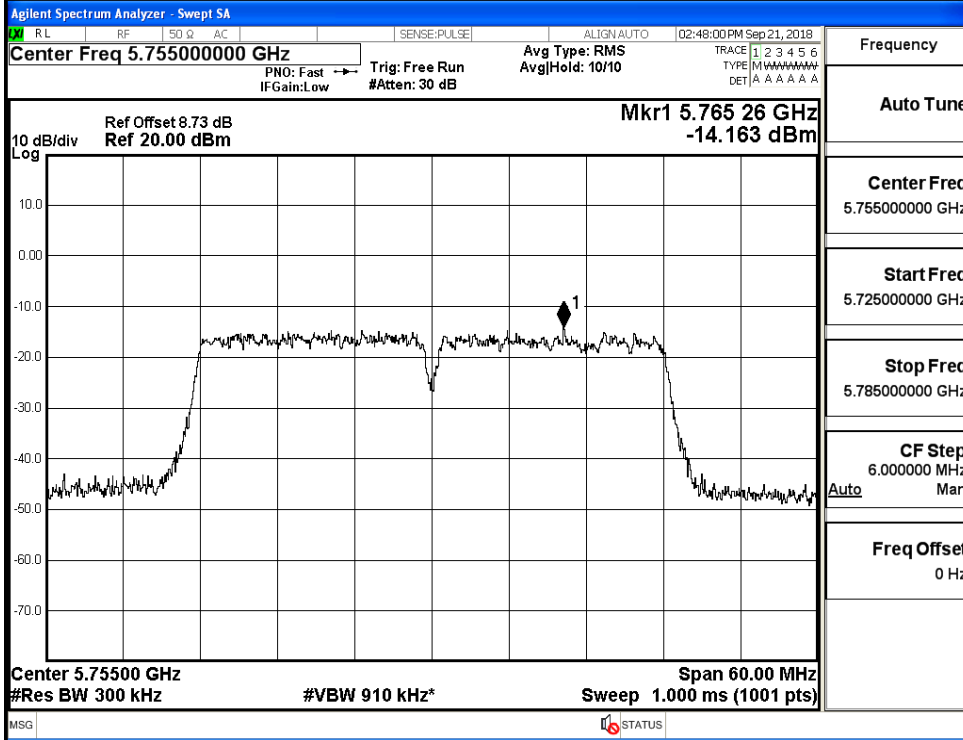


IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant1

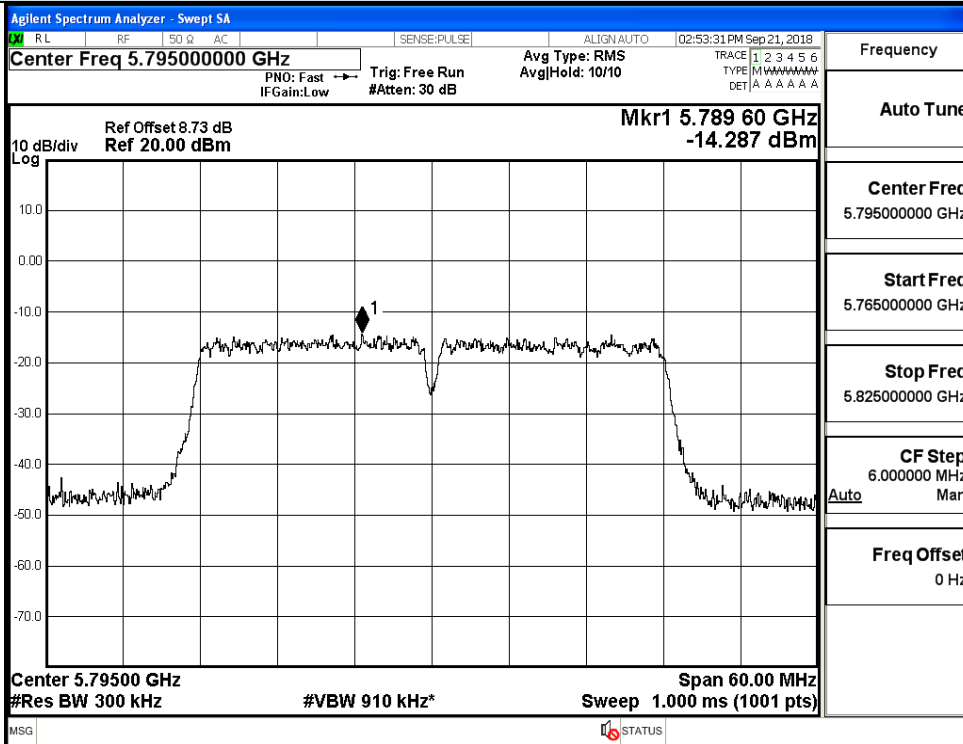


IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant1

Power Spectral Density

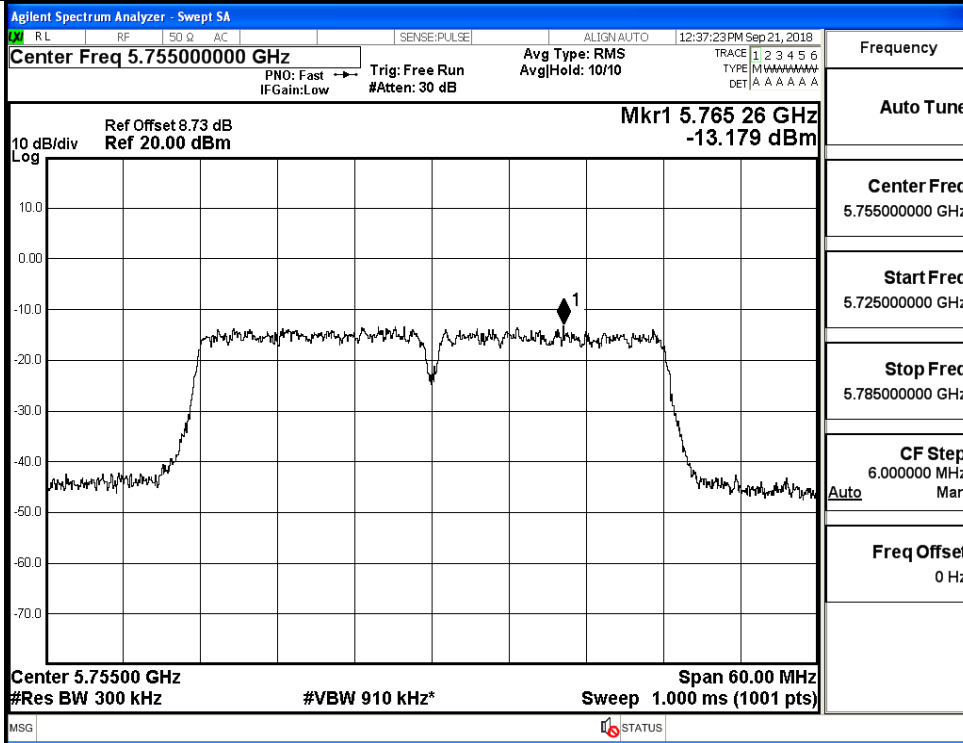


IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant2

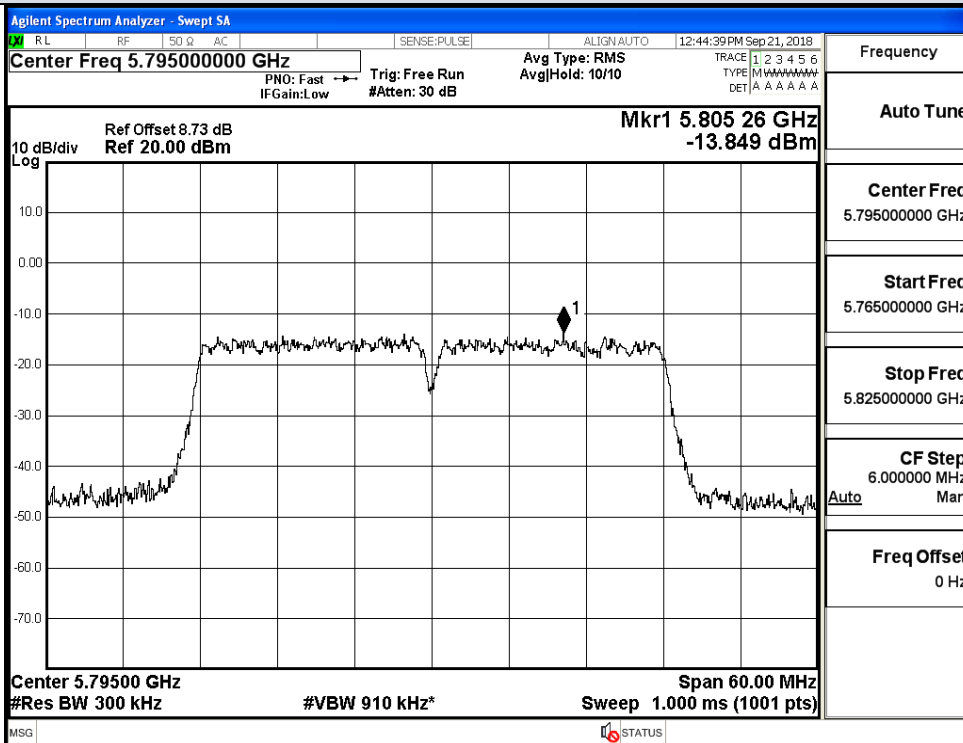


IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant2

Power Spectral Density



IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant3



IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant3

B.4 Emission Bandwidth

Antenna 0

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11N40	151	5755	36.53	≥0.5
	159	5795	36.54	

Antenna 1

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11N40	151	5755	36.57	≥0.5
	159	5795	36.57	

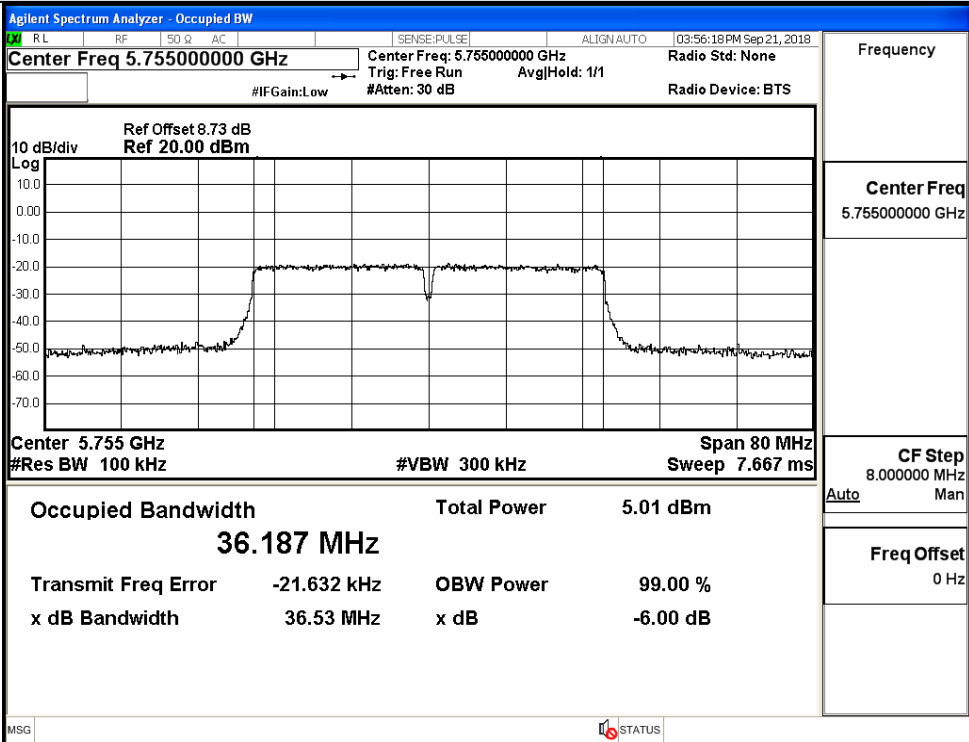
Antenna 2

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11N40	151	5755	36.53	≥0.5
	159	5795	36.55	

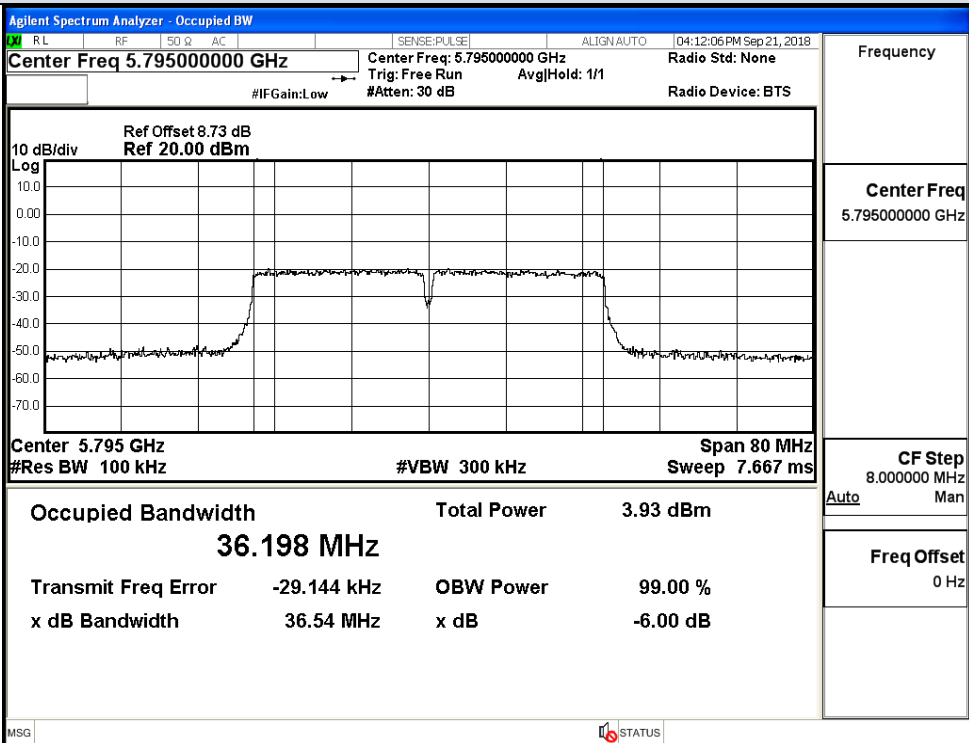
Antenna 3

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11N40	151	5755	36.56	≥0.5
	159	5795	36.65	

6dB Bandwidth

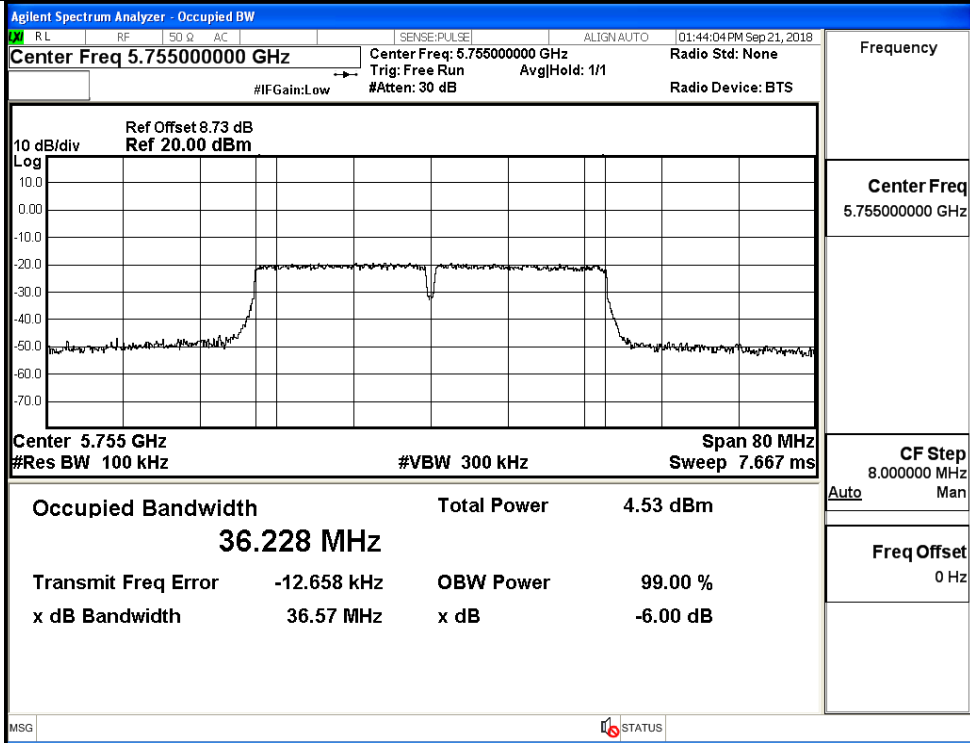


IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant0

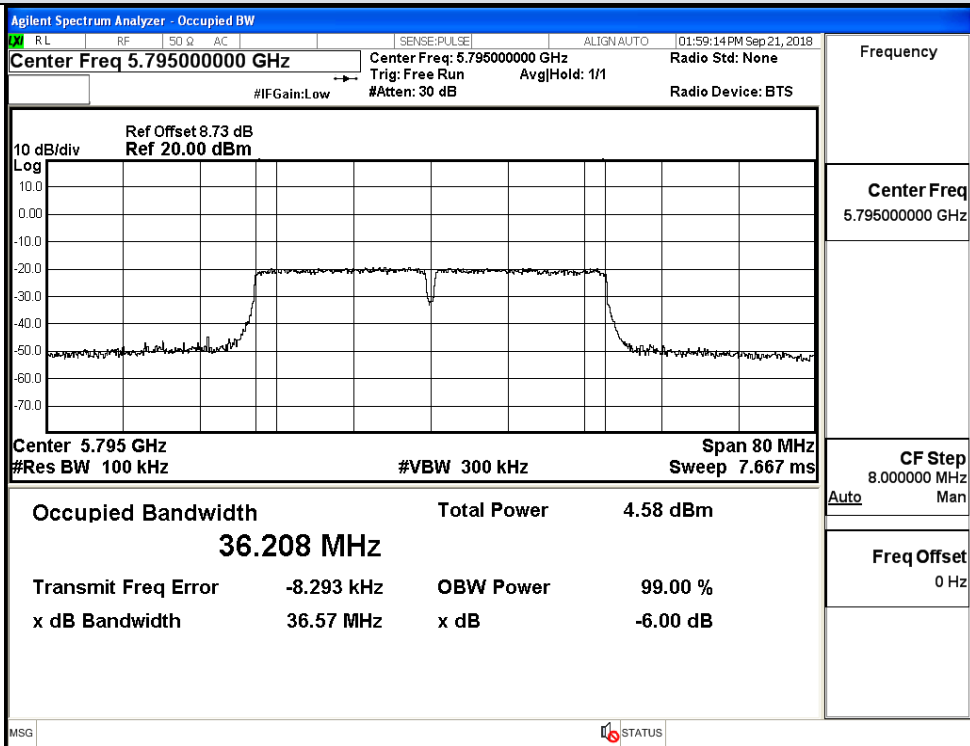


IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant0

6dB Bandwidth

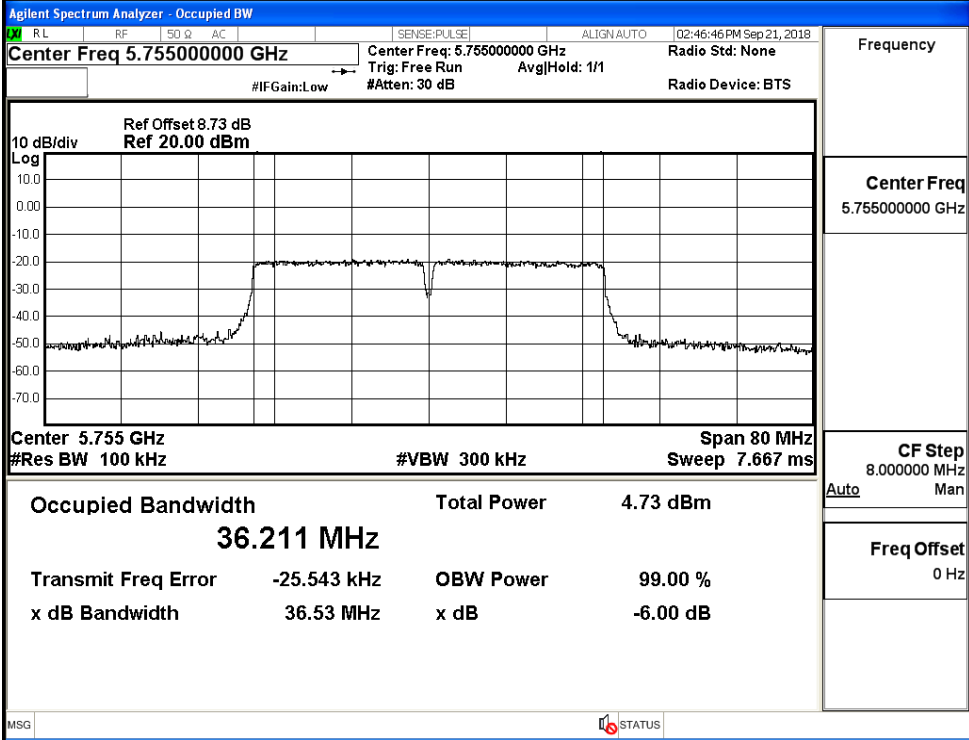


IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant1

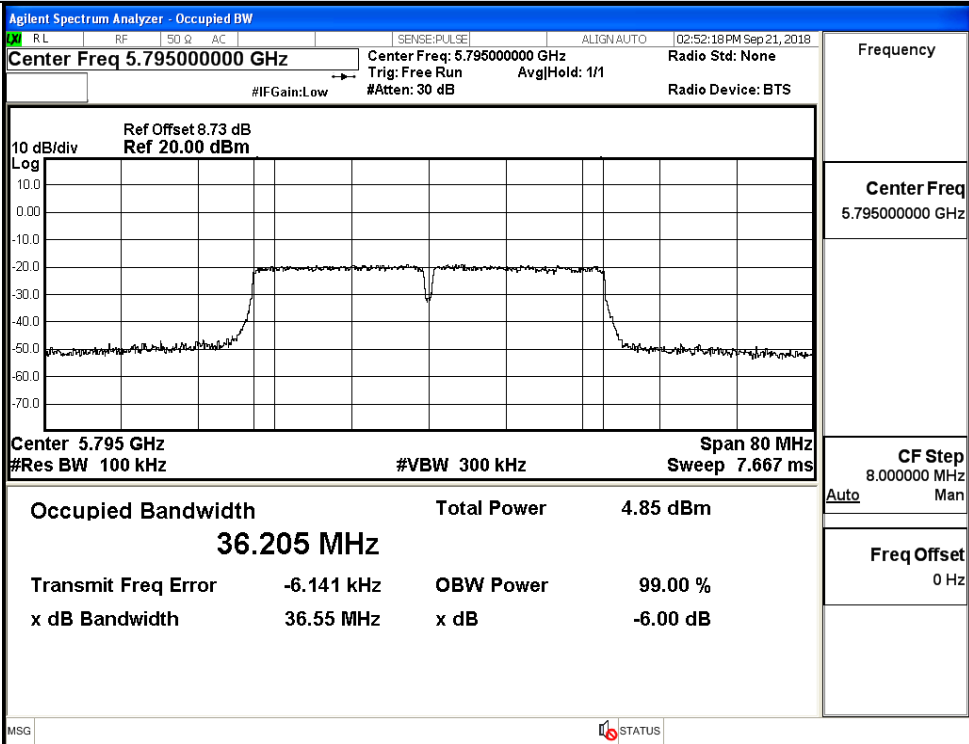


IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant1

6dB Bandwidth

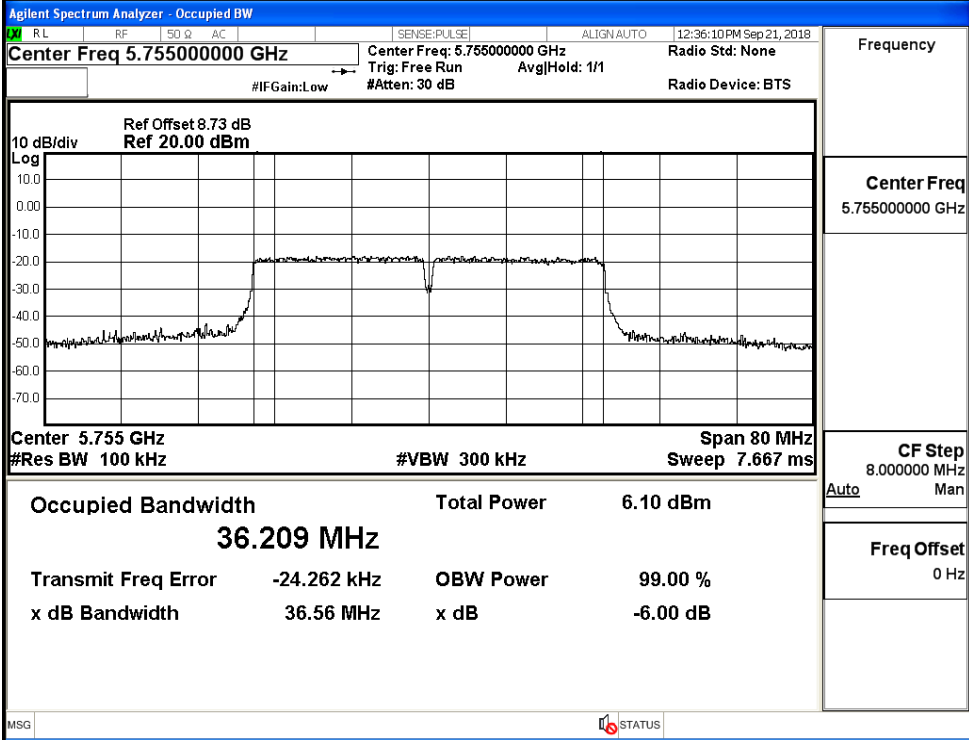


IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant2

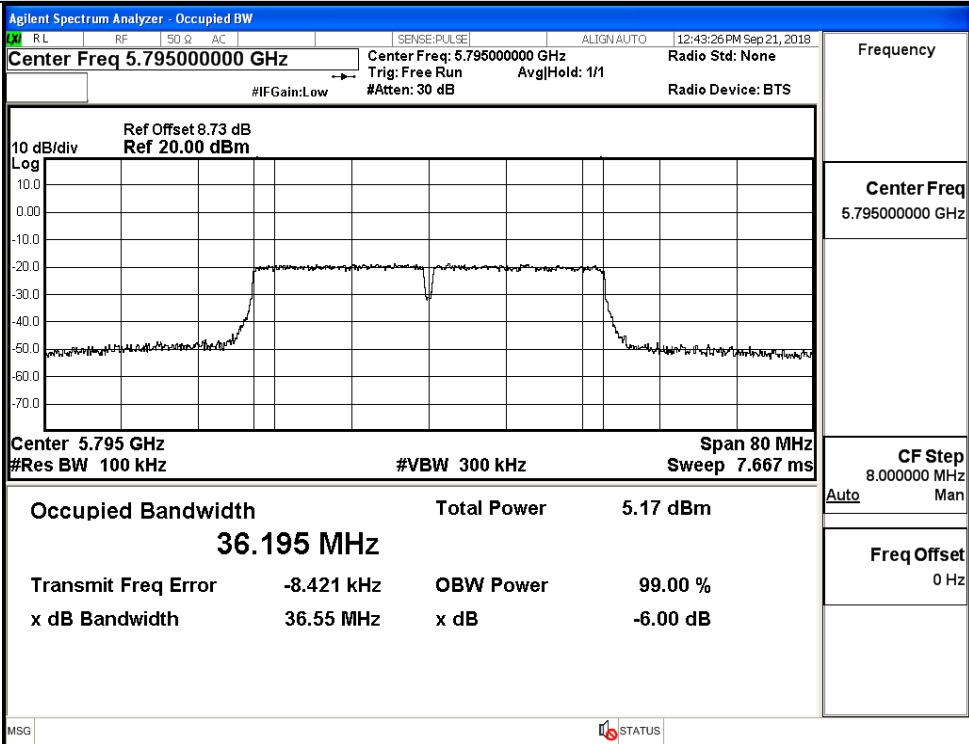


IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant2

6dB Bandwidth



IEEE 802.11n HT40 / Channel 151 / 5755 MHz_Ant3



IEEE 802.11n HT40 / Channel 159 / 5795 MHz_Ant3

B.5 Undesirable Emissions Measurement

Antenna 0

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11N40	151	5650.0	-60.765	5.00	-55.765	Peak	-27.0
		5700.0	-57.706	5.00	-52.706	Peak	10.0
		5720.0	-55.614	5.00	-50.614	Peak	15.6
		5725.0	-52.560	5.00	-47.560	Peak	27.0
	159	5850.0	-57.629	5.00	-52.629	Peak	27.0
		5855.0	-56.823	5.00	-51.823	Peak	15.6
		5875.0	-58.629	5.00	-53.629	Peak	10.0
		5925.0	-60.509	5.00	-55.509	Peak	-27.0

Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11N40	151	5650.0	-59.598	5.00	-54.598	Peak	-27.0
		5700.0	-57.913	5.00	-52.913	Peak	10.0
		5720.0	-53.449	5.00	-48.449	Peak	15.6
		5725.0	-53.930	5.00	-48.930	Peak	27.0
	159	5850.0	-55.629	5.00	-50.629	Peak	27.0
		5855.0	-54.887	5.00	-49.887	Peak	15.6
		5875.0	-57.937	5.00	-52.937	Peak	10.0
		5925.0	-55.629	5.00	-50.629	Peak	-27.0

Antenna 2

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11N40	151	5650.0	-60.251	5.00	-55.251	Peak	-27.0
		5700.0	-58.741	5.00	-53.741	Peak	10.0
		5720.0	-55.561	5.00	-50.561	Peak	15.6
		5725.0	-53.381	5.00	-48.381	Peak	27.0
	159	5850.0	-55.992	5.00	-50.992	Peak	27.0
		5855.0	-55.037	5.00	-50.037	Peak	15.6
		5875.0	-58.102	5.00	-53.102	Peak	10.0
		5925.0	-59.227	5.00	-54.227	Peak	-27.0

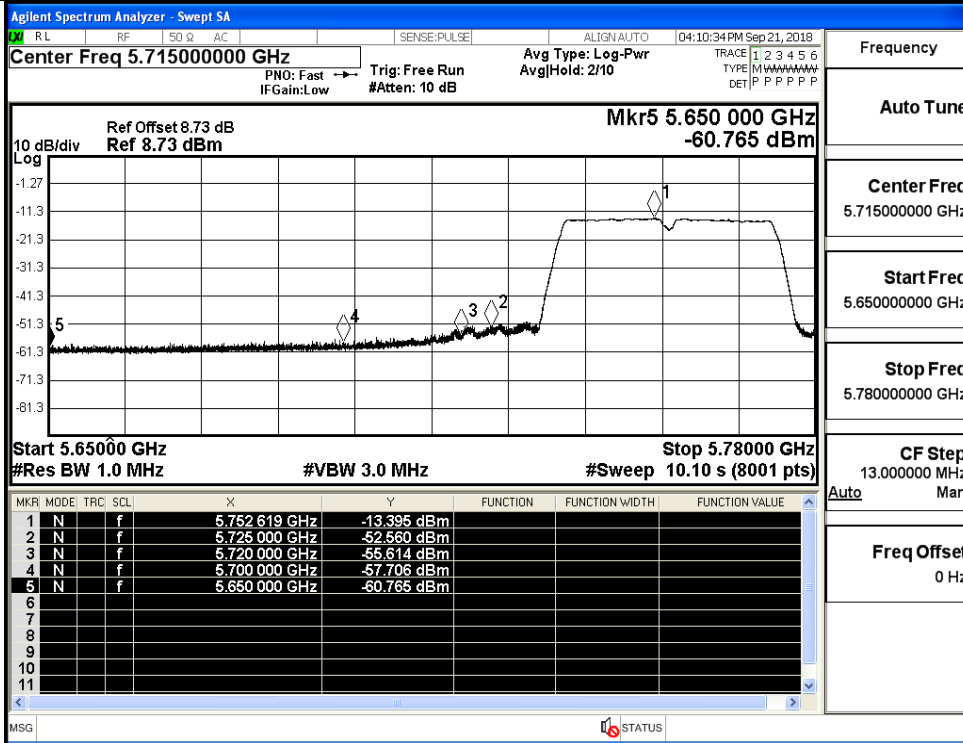
Antenna 3

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11N40	151	5650.0	-61.120	5.00	-55.251	Peak	-27.0
		5700.0	-60.478	5.00	-53.741	Peak	10.0
		5720.0	-54.596	5.00	-50.561	Peak	15.6
		5725.0	-55.620	5.00	-48.381	Peak	27.0
	159	5850.0	-55.788	5.00	-50.992	Peak	27.0
		5855.0	-56.153	5.00	-50.037	Peak	15.6
		5875.0	-57.083	5.00	-53.102	Peak	10.0
		5925.0	-59.887	5.00	-54.227	Peak	-27.0

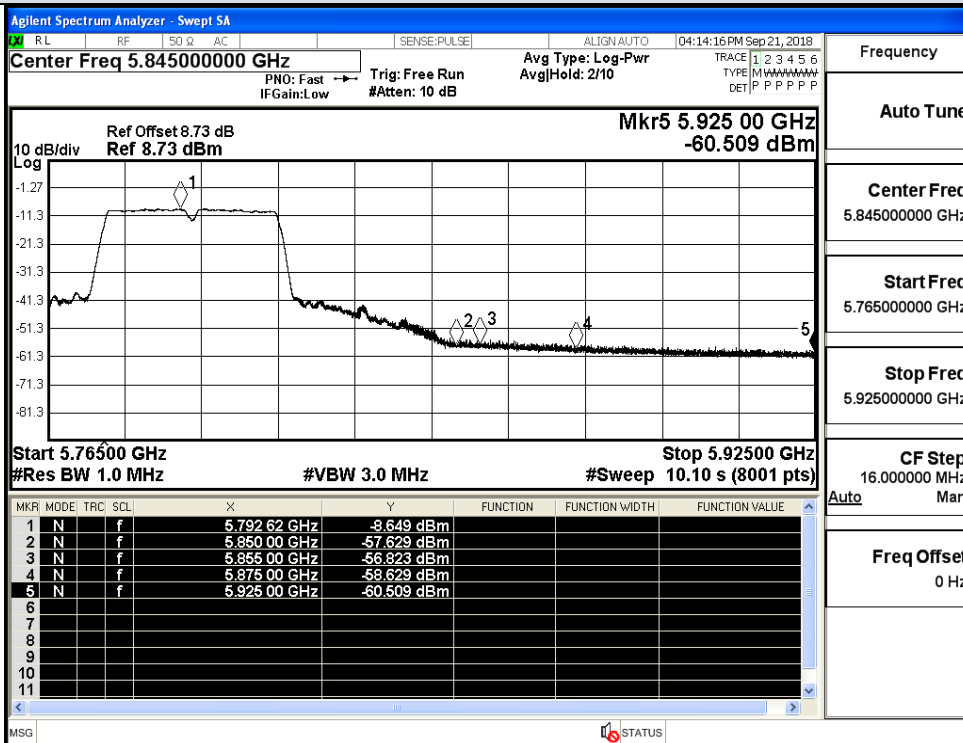
Antenna 0+Antenna 1+ Antenna 2+Antenna 3

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)					Directional Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
			Ant0	Ant1	Ant2	Ant3	Sum				
11N40	151	650.05	-60.765	-59.598	-60.251	-61.120	-54.375	11.021	-43.354	Peak	-27.0
		5700.0	-57.706	-57.913	-58.741	-60.478	-52.561	11.021	-41.540	Peak	10.0
		5720.0	-55.614	-53.449	-55.561	-54.596	-48.692	11.021	-37.671	Peak	15.6
		5725.0	-52.560	-53.930	-53.381	-55.620	-47.715	11.021	-36.694	Peak	27.0
	159	5850.0	-57.629	-55.629	-55.992	-55.788	-50.170	11.021	-39.149	Peak	27.0
		5855.0	-56.823	-54.887	-55.037	-56.153	-49.632	11.021	-38.611	Peak	15.6
		5875.0	-58.629	-57.937	-58.102	-57.083	-51.881	11.021	-40.860	Peak	10.0
		5925.0	-60.509	-55.629	-59.227	-59.887	-52.331	11.021	-41.310	Peak	-27.0

Undesirable Emissions Measurement

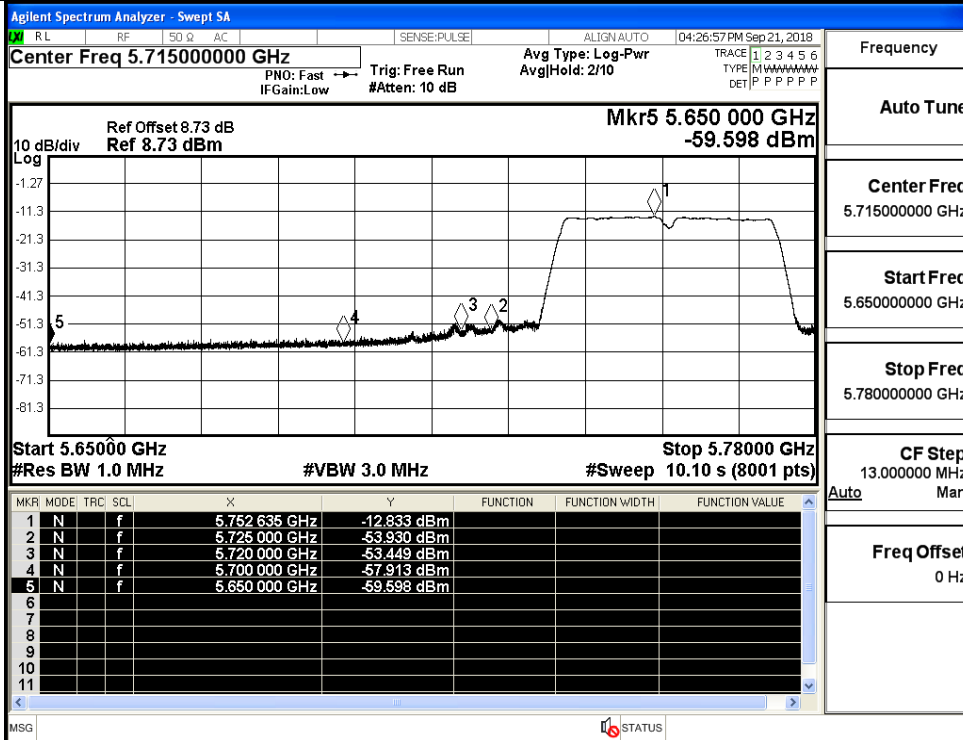


IEEE 802.11n HT40 / Channel 151 / 5755 MHz / Peak_Ant0

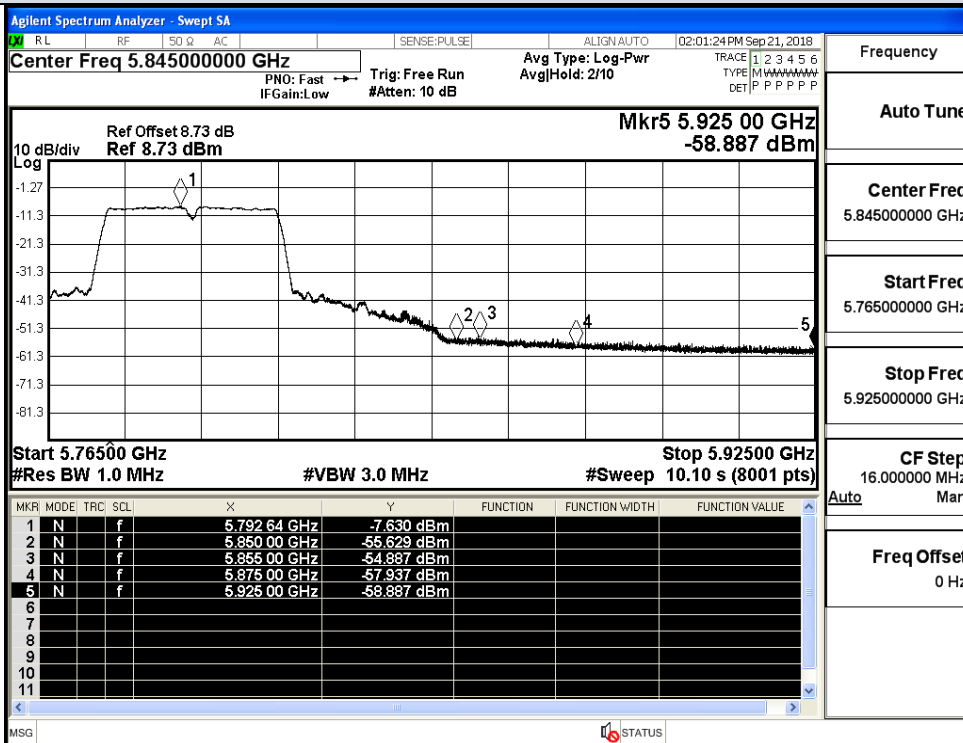


IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak_Ant0

Undesirable Emissions Measurement

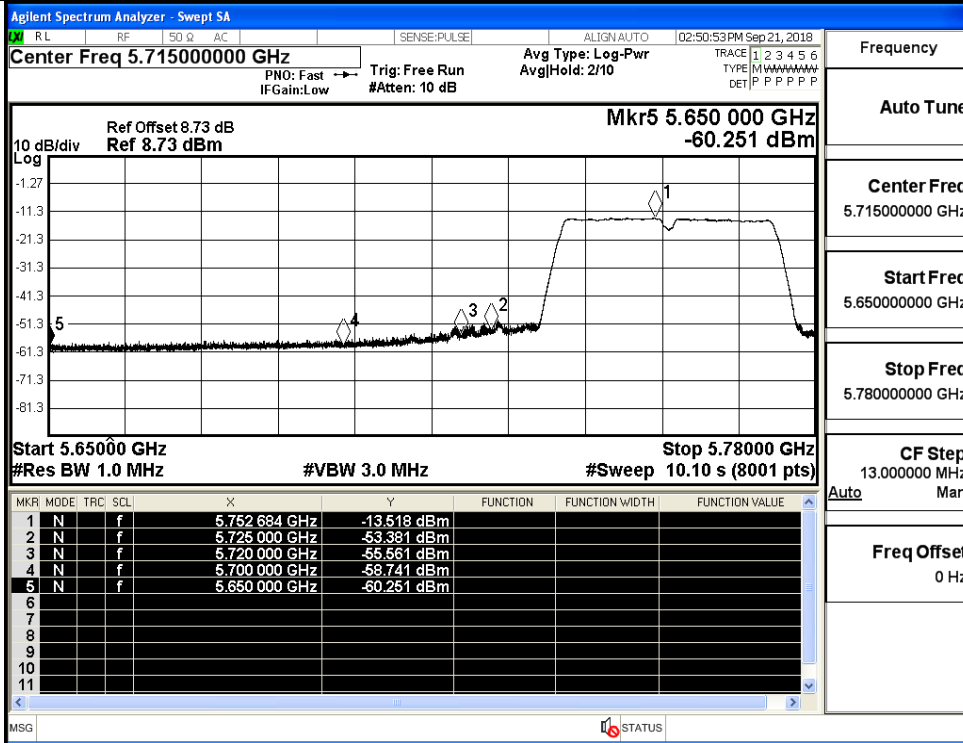


Undesirable Emissions Measurement

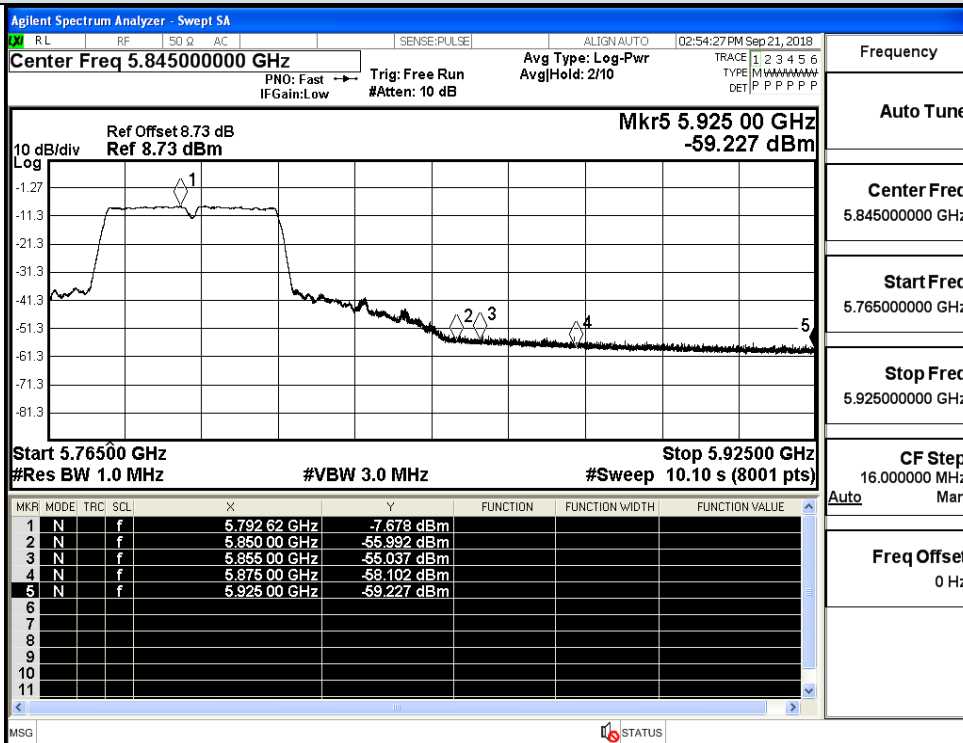


IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak_Ant1

Undesirable Emissions Measurement

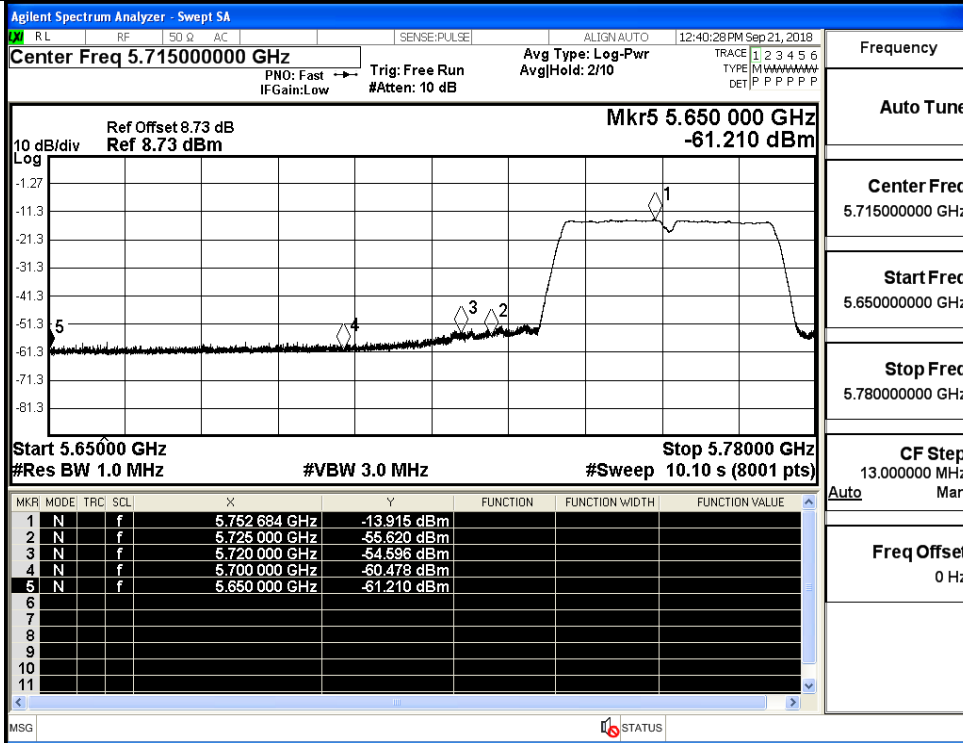


IEEE 802.11n HT40 / Channel 151 / 5755 MHz / Peak_Ant2

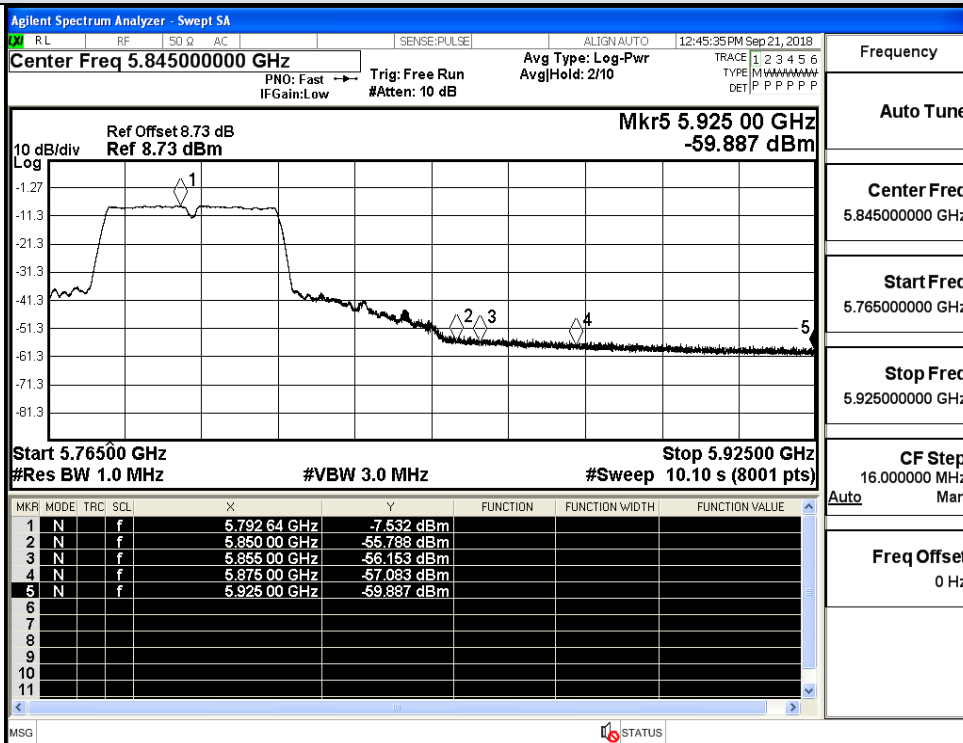


IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak_Ant2

Undesirable Emissions Measurement



IEEE 802.11n HT40 / Channel 151 / 5755 MHz / Peak_Ant3



IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak_Ant3