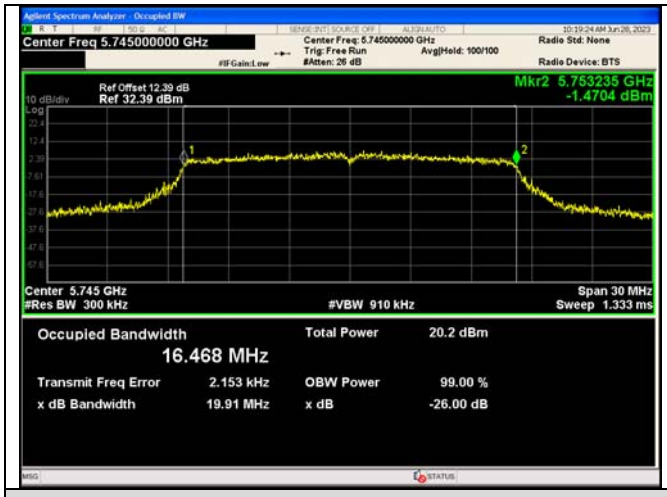
APPENDIX III.99% Bandwidth

Test Result

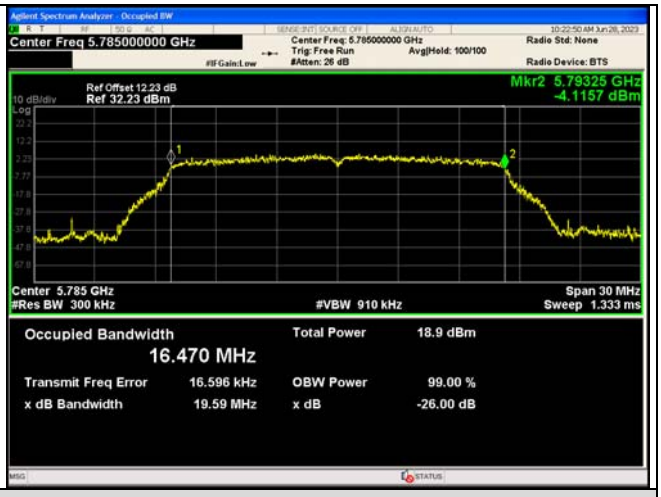
Antenna A:

Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11a	149	0	16.468
	157		16.470
	165		16.493
IEEE 802.11n_20	149		17.619
	157		17.583
	165		17.605
IEEE 802.11n_40	151		35.958
	159		36.003
IEEE 802.11ac_20	149		17.630
	157		17.610
	165		17.600
IEEE 802.11ac_40	151		35.952
	159		35.967
IEEE 802.11ac_80	155		75.612

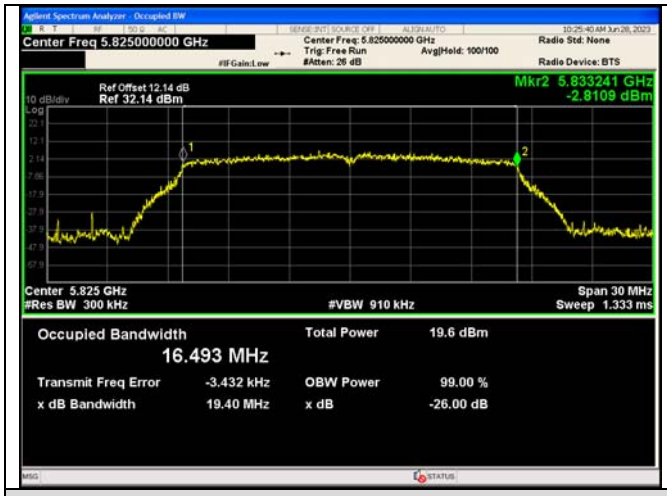
Test Graphs



IEEE 802.11a_Channel 149_20MHz_Antenna 0

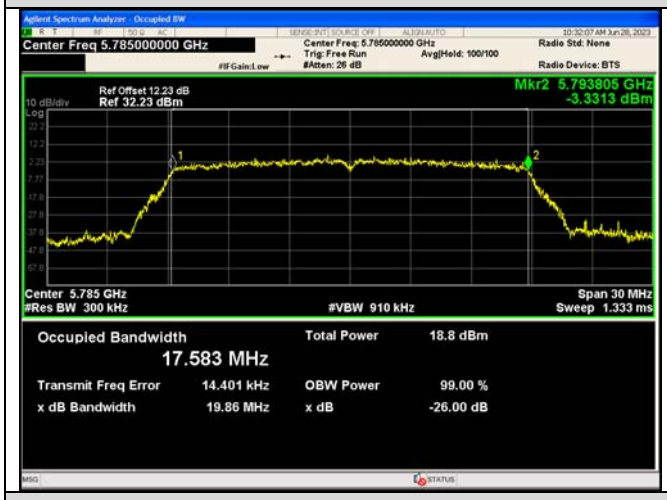


IEEE 802.11a_Channel 157_20MHz_Antenna 0

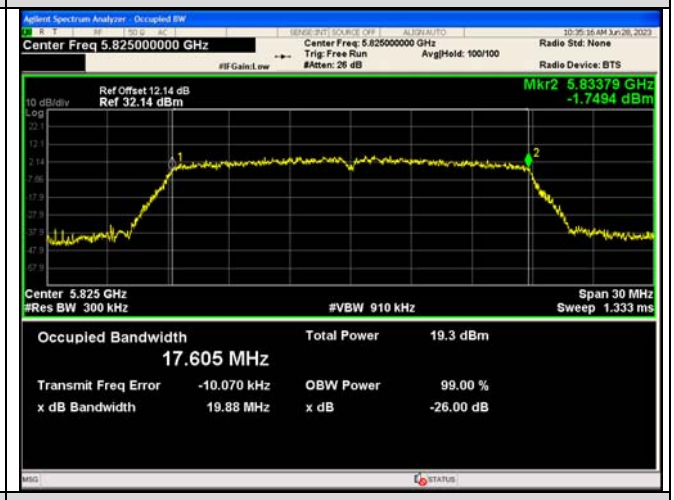


IEEE 802.11a_Channel 165_20MHz_Antenna 0

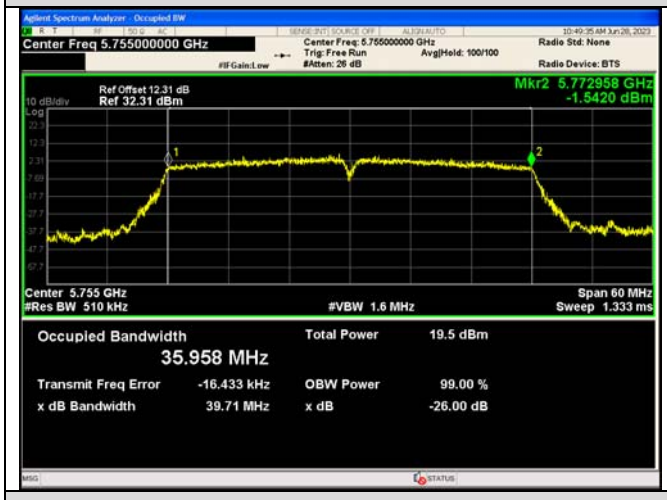
IEEE 802.11n_Channel 149_20MHz_Antenna 0



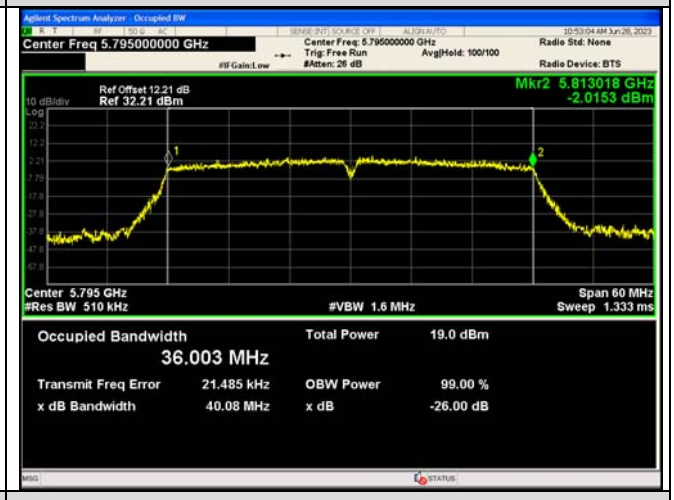
IEEE 802.11n_Channel 157_20MHz_Antenna 0



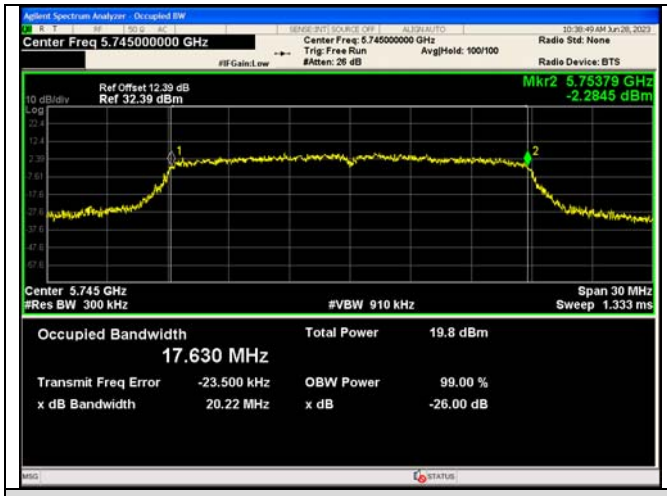
IEEE 802.11n_Channel 165_20MHz_Antenna 0



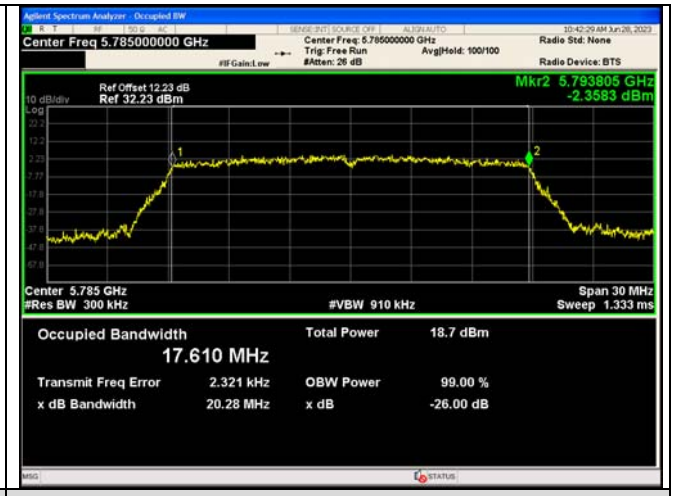
IEEE 802.11n_Channel 151_40MHz_Antenna 0



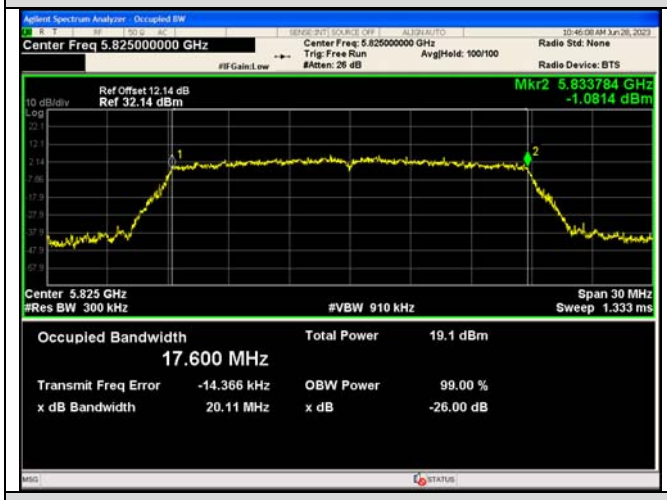
IEEE 802.11n_Channel 159_40MHz_Antenna 0



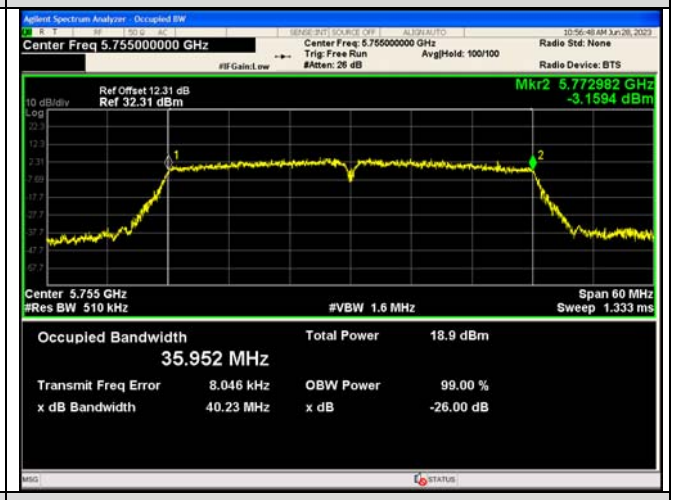
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



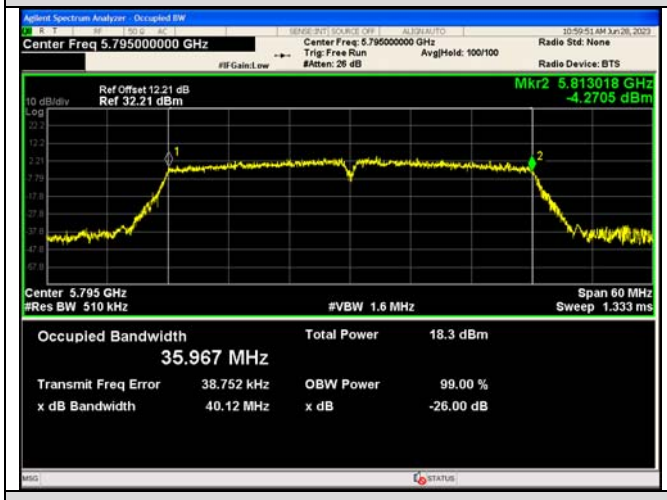
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



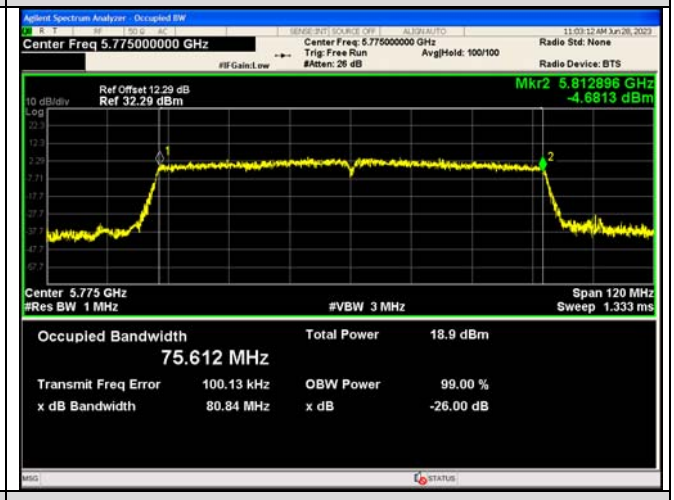
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



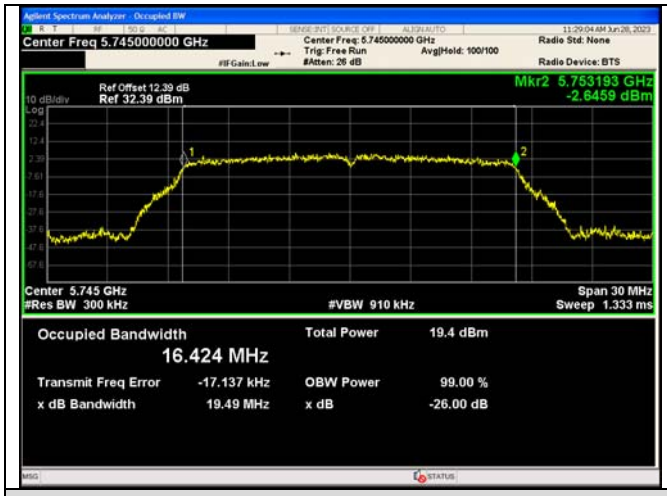
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Test Result

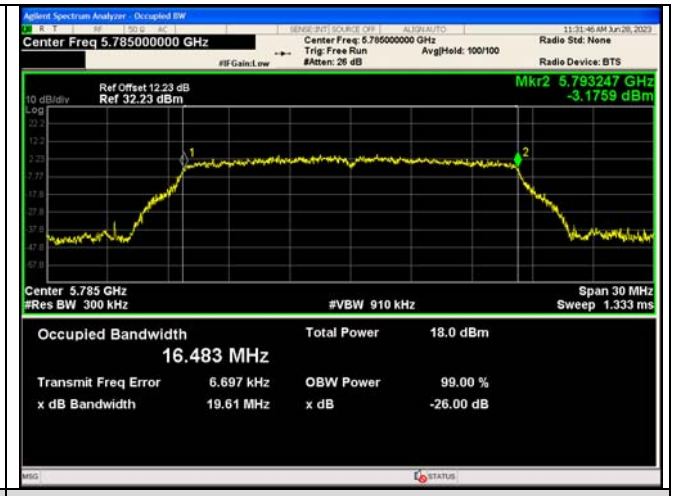
Antenna B:

Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11a	149	0	16.424
	157		16.483
	165		16.438
IEEE 802.11n_20	149		17.584
	157		17.597
	165		17.594
IEEE 802.11n_40	151		36.024
	159		35.961
IEEE 802.11ac_20	149		17.551
	157		17.624
	165		17.561
IEEE 802.11ac_40	151		35.981
	159		36.042
IEEE 802.11ac_80	155		75.657

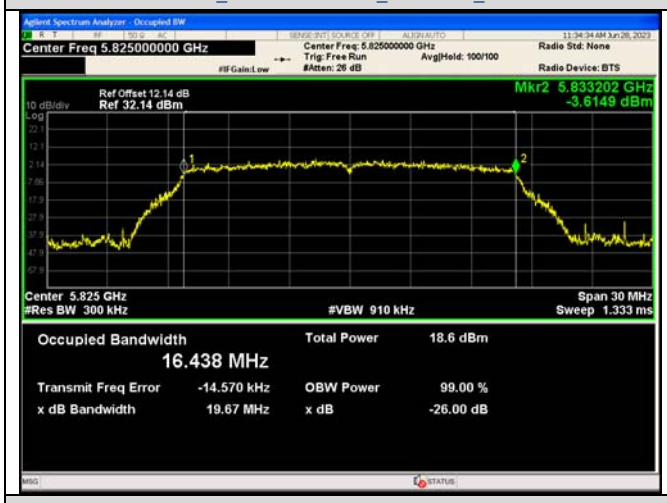
Test Graphs



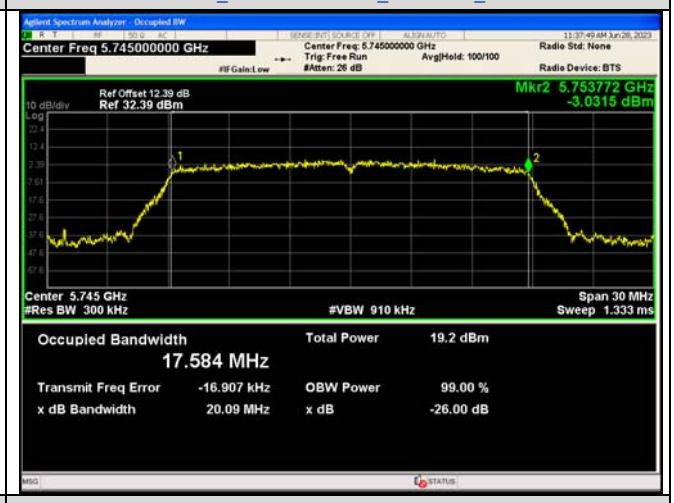
IEEE 802.11a_Channel 149_20MHz_Antenna 0



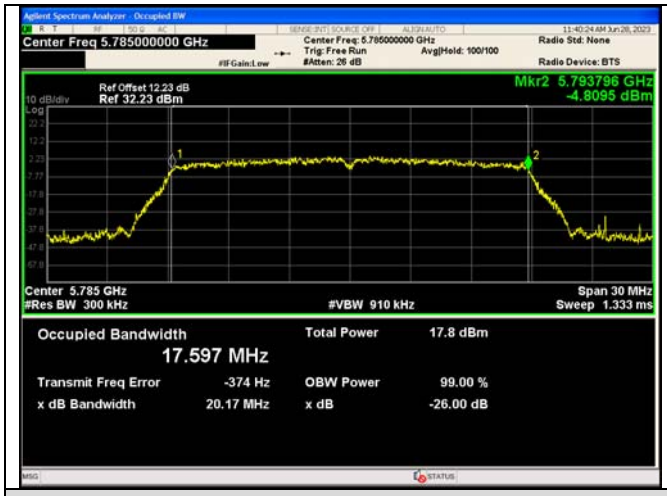
IEEE 802.11a_Channel 157_20MHz_Antenna 0



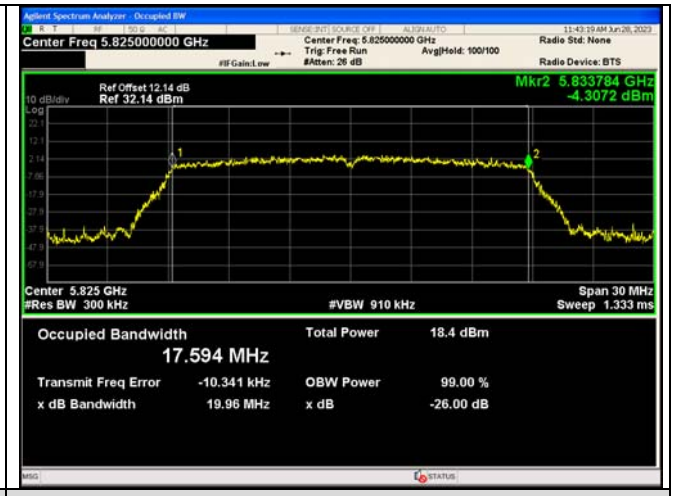
IEEE 802.11a_Channel 165_20MHz_Antenna 0



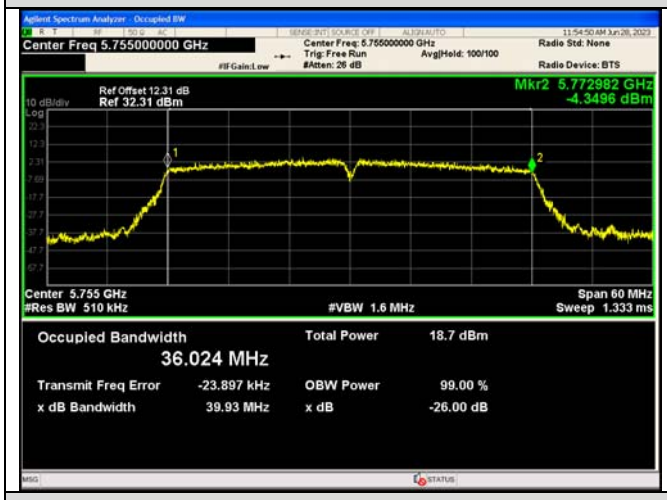
IEEE 802.11n_Channel 149_20MHz_Antenna 0



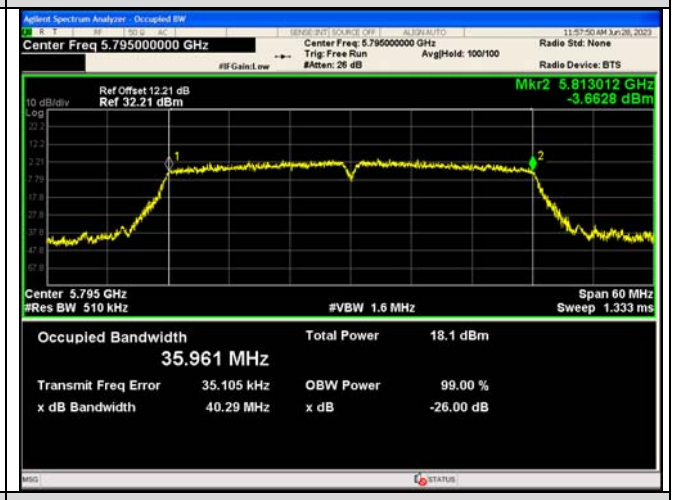
IEEE 802.11n_Channel 157_20MHz_Antenna 0



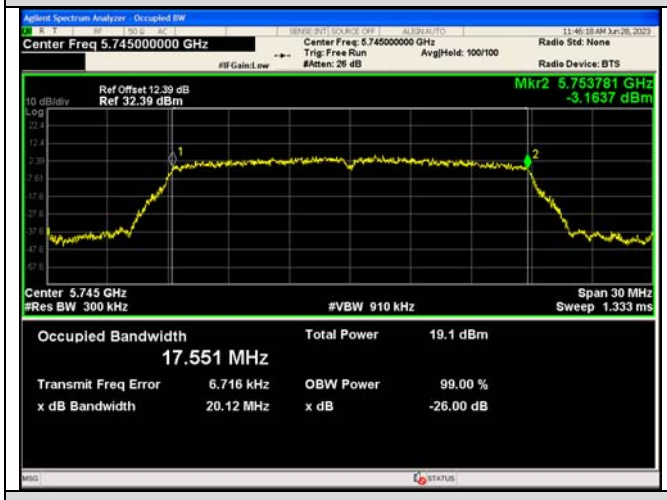
IEEE 802.11n_Channel 165_20MHz_Antenna 0



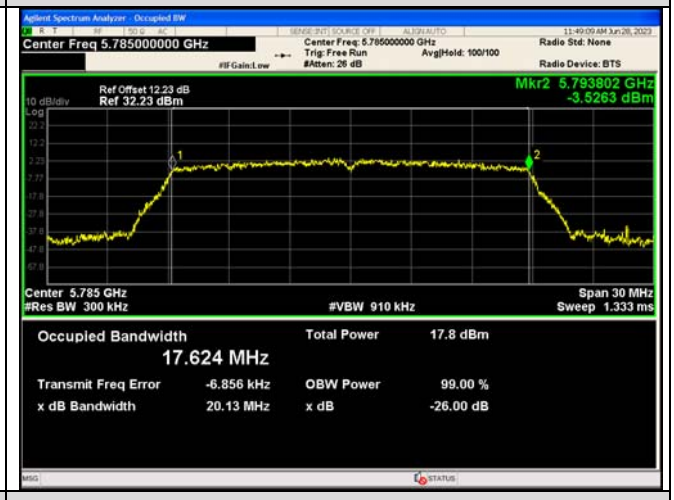
IEEE 802.11n_Channel 151_40MHz_Antenna 0



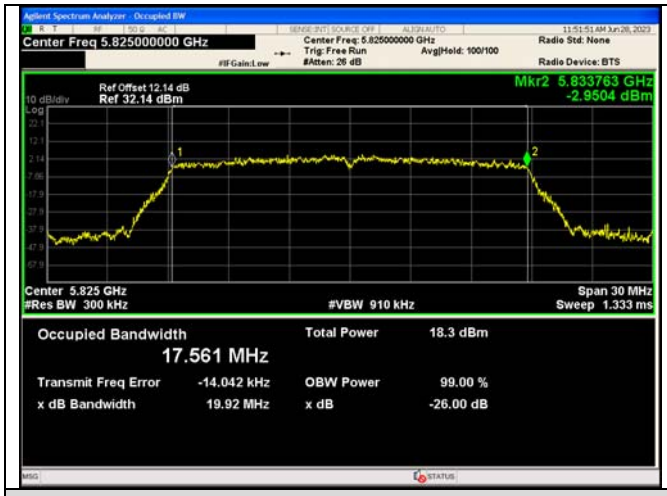
IEEE 802.11n_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 149_20MHz_Antenna 0

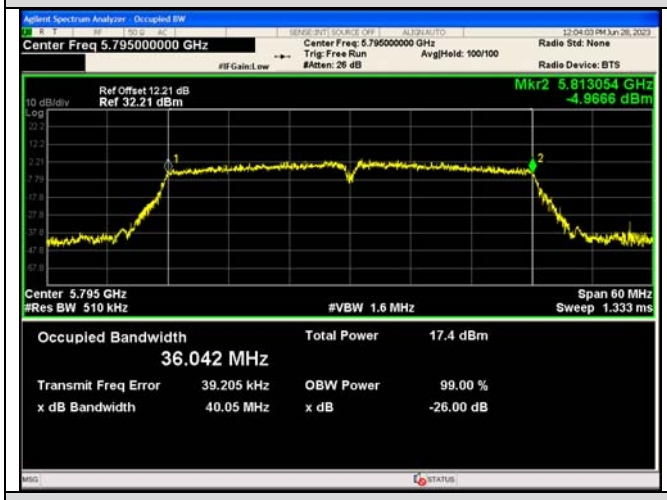


IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0

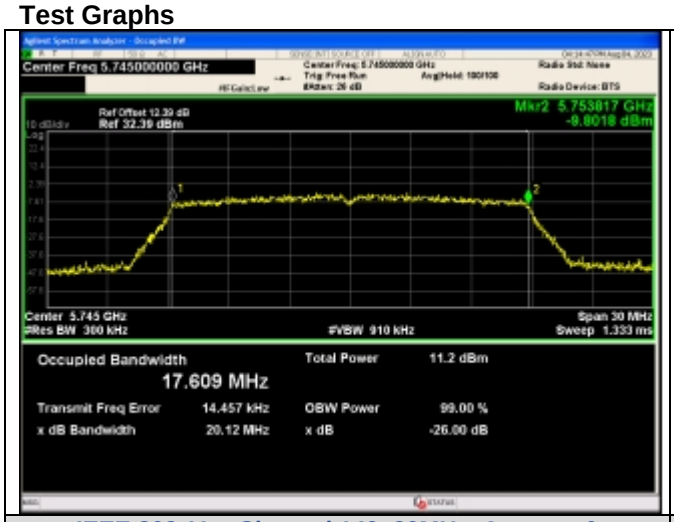
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Antenna A+ Antenna B:

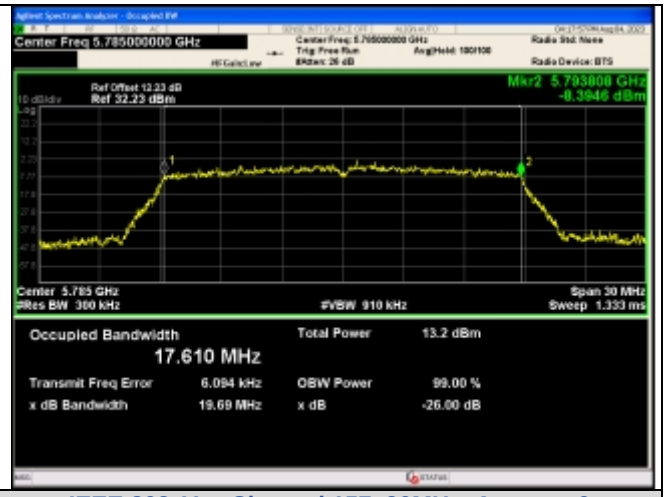
Test Result

Mode	Channel	Ant.	99% BW (MHz)
IEEE 802.11n_20	149	0	17.609
	157		17.610
	165		17.605
IEEE 802.11n_40	151		35.986
	159		35.852
IEEE 802.11ac_20	149		17.612
	157		17.667
	165		17.640
IEEE 802.11ac_40	151		36.002
	159		35.907
IEEE 802.11ac_80	155		75.446

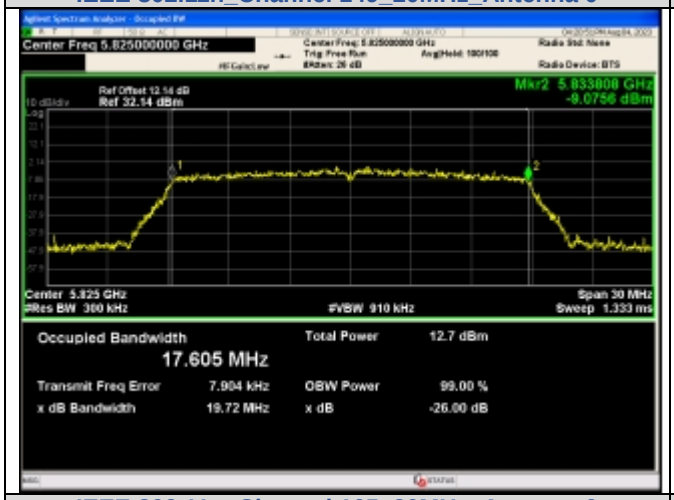
Test Graphs



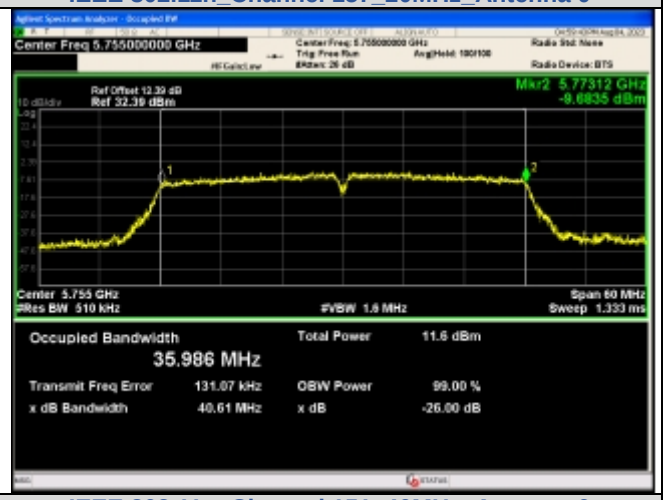
IEEE 802.11n_Channel 149_20MHz_Antenna 0



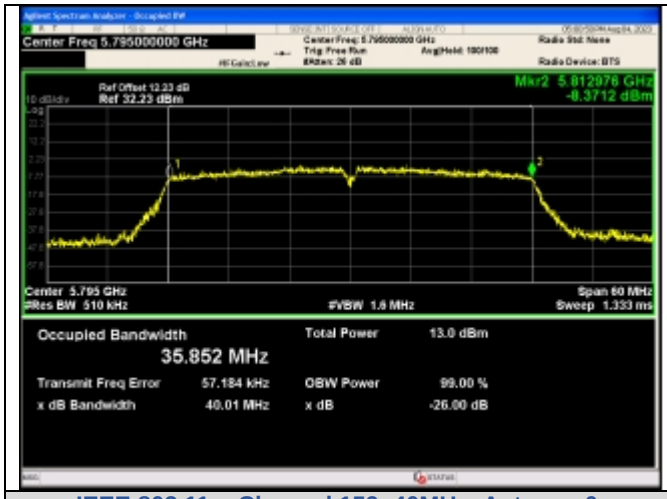
IEEE 802.11n_Channel 157_20MHz_Antenna 0



IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0



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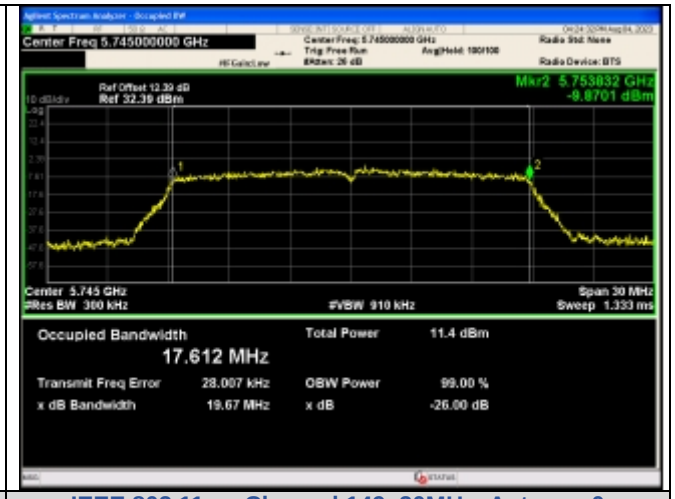
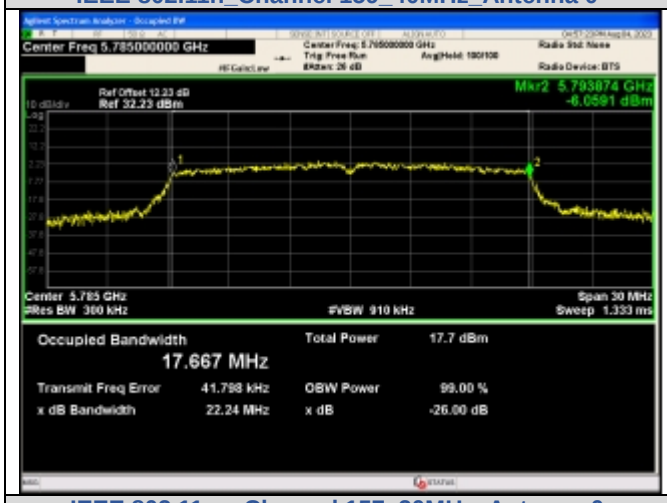
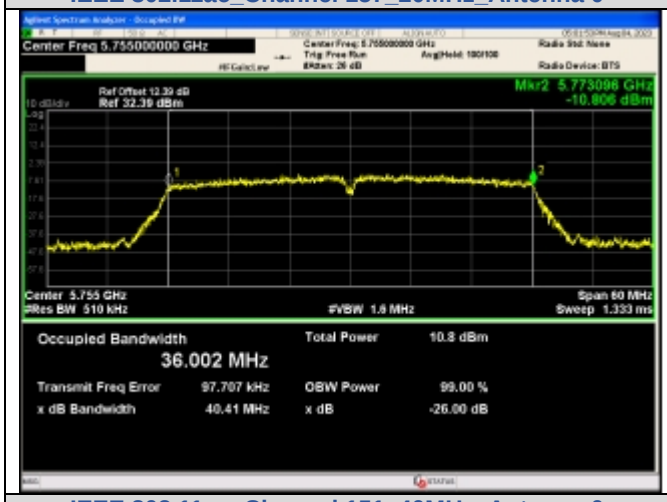


IEEE 802.11ac_Channel 149_20MHz_Antenna 0

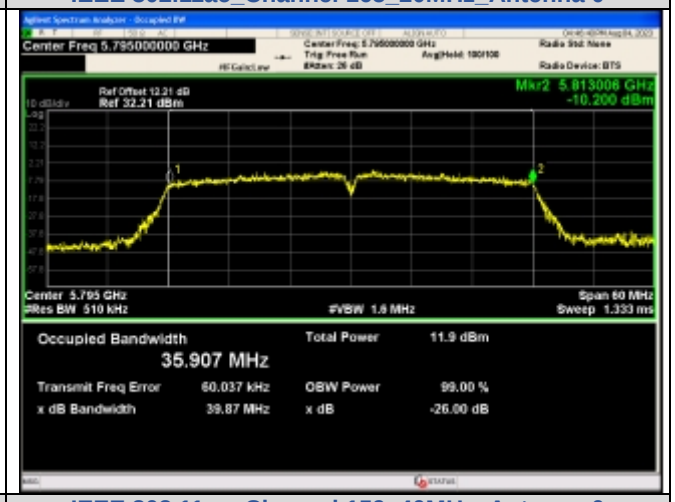


IEEE 802.11ac_Channel 157_20MHz_Antenna 0

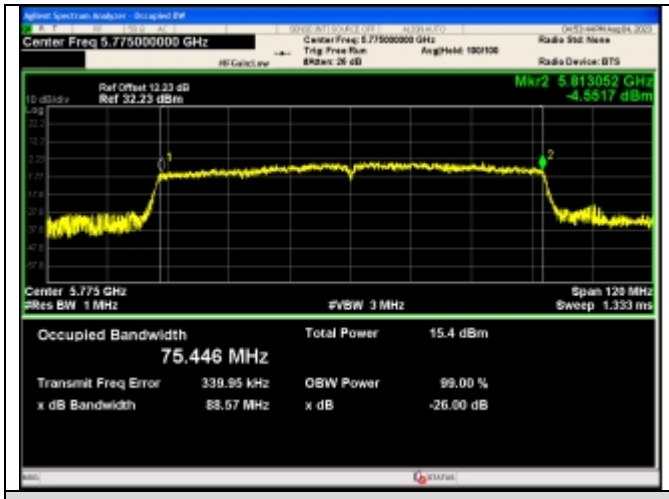
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0

	Void
IEEE 802.11ac_Channel 155_80MHz_Antenna 0	

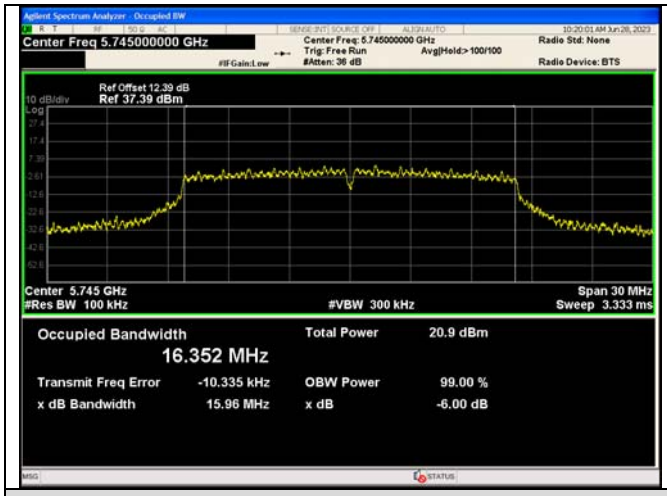
APPENDIX IV.6dB Bandwidth

Test Result

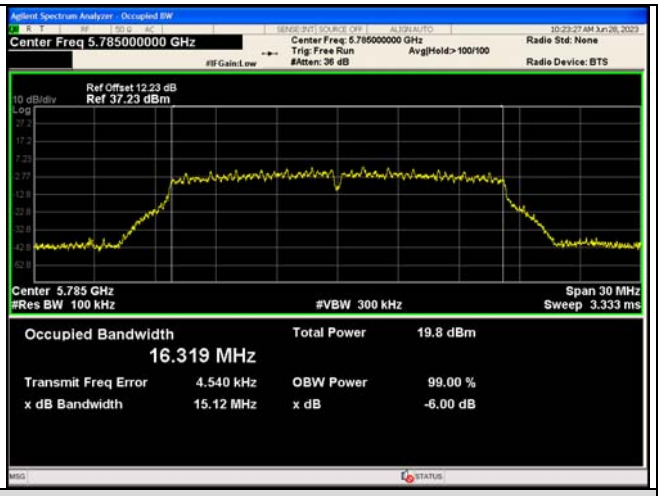
Antenna A:

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.96	0.5	PASS
	157		5785	15.12		PASS
	165		5825	15.66		PASS
IEEE 802.11n_20	149		5745	15.11		PASS
	157		5785	16.02		PASS
	165		5825	15.10		PASS
IEEE 802.11n_40	151		5755	35.10		PASS
	159		5795	35.10		PASS
IEEE 802.11ac_20	149		5745	15.90		PASS
	157		5785	15.12		PASS
	165		5825	15.40		PASS
IEEE 802.11ac_40	151		5755	35.08		PASS
	159		5795	35.08		PASS
IEEE 802.11ac_80	155		5775	75.10		PASS

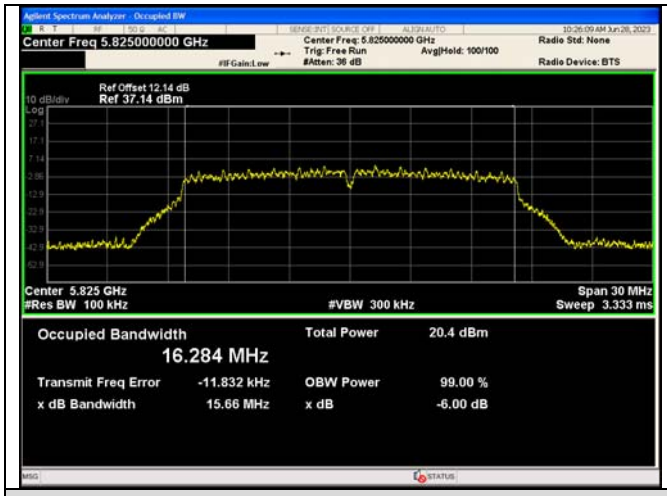
Test Graphs



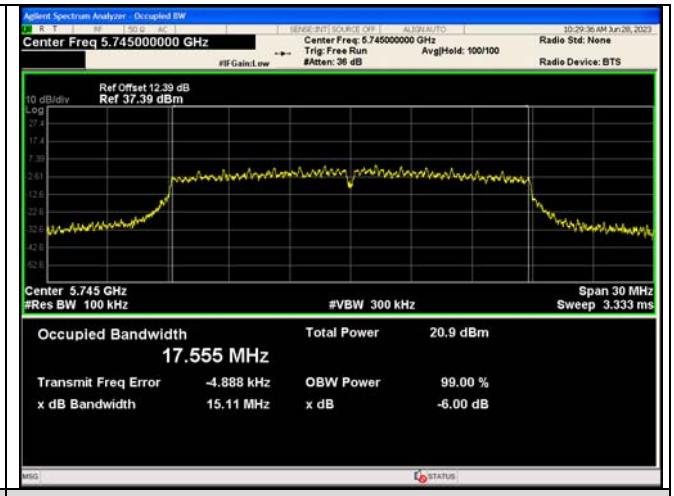
IEEE 802.11a_Channel 149_20MHz_Antenna 0



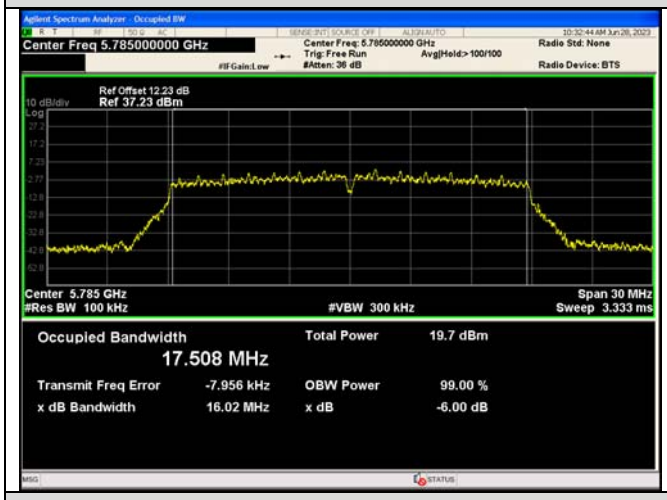
IEEE 802.11a_Channel 157_20MHz_Antenna 0



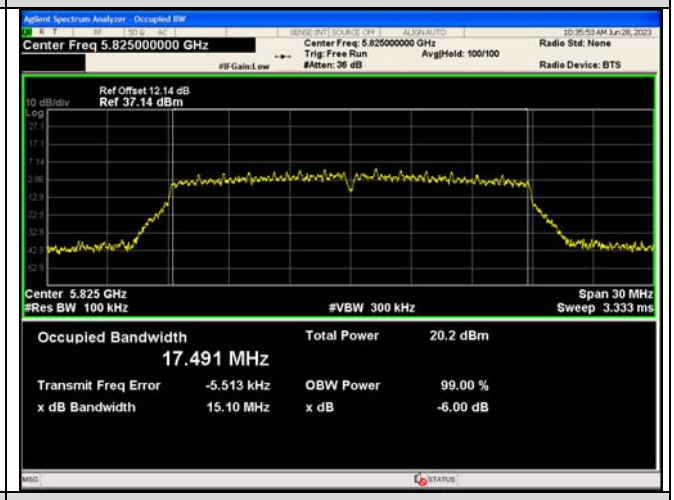
IEEE 802.11a_Channel 165_20MHz_Antenna 0



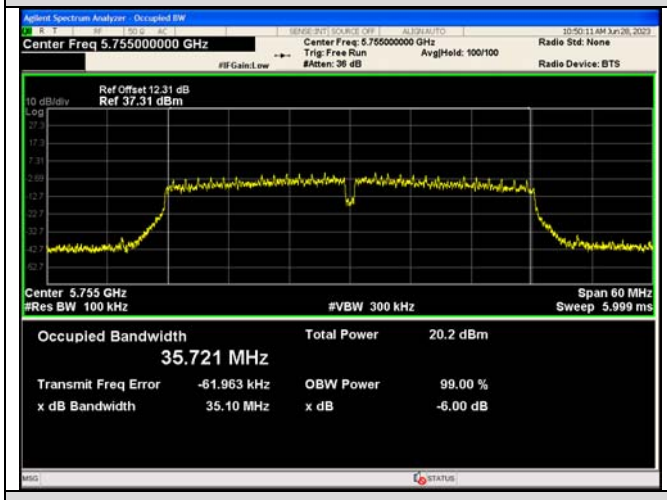
IEEE 802.11n_Channel 149_20MHz_Antenna 0



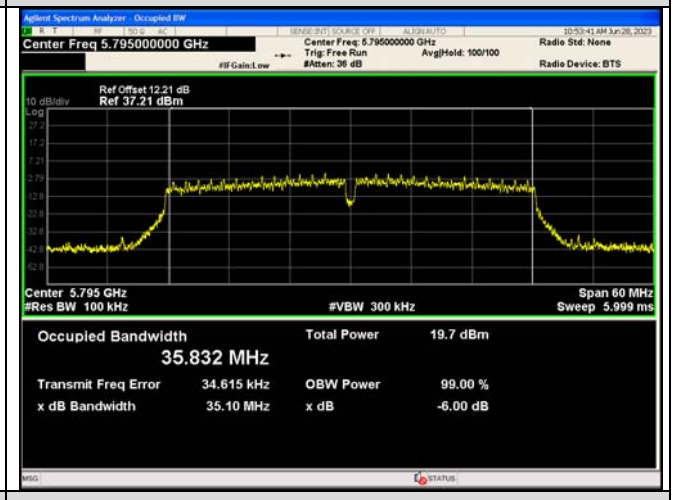
IEEE 802.11n_Channel 157_20MHz_Antenna 0



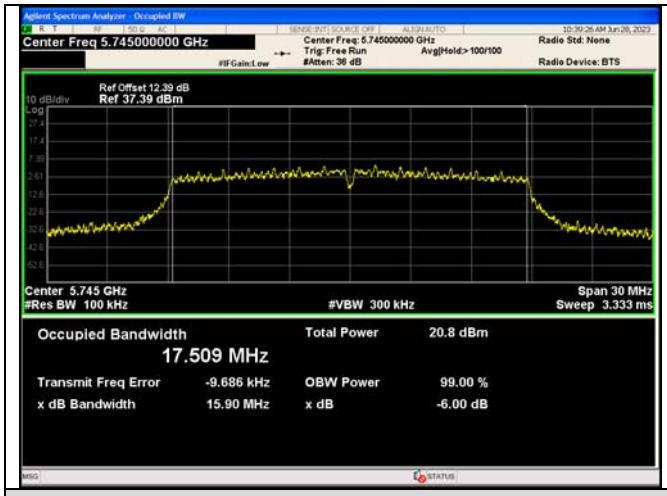
IEEE 802.11n_Channel 165_20MHz_Antenna 0



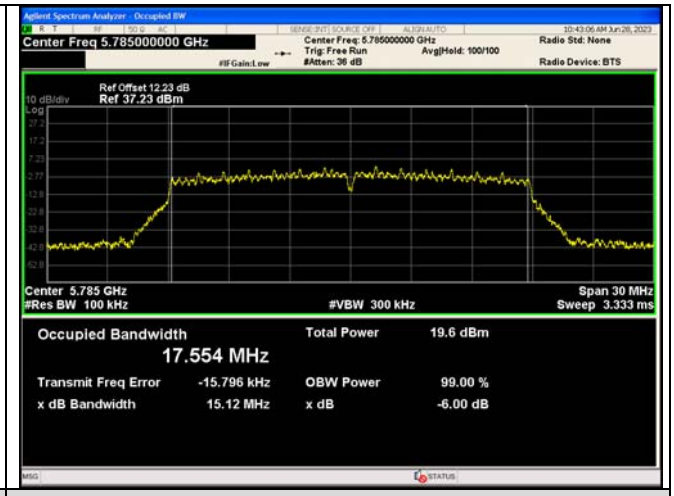
IEEE 802.11n_Channel 151_40MHz_Antenna 0



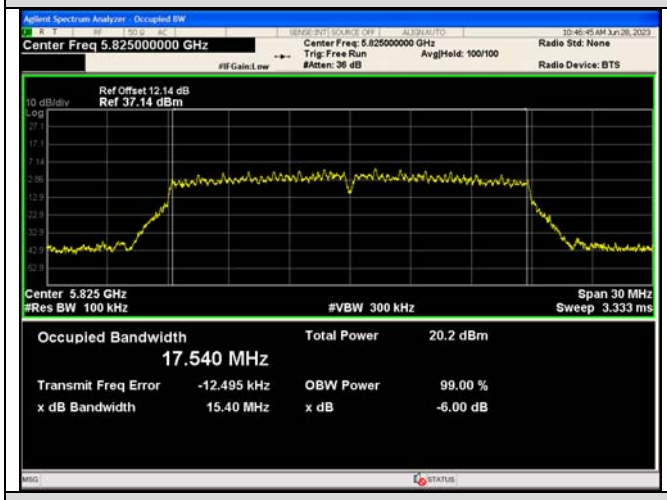
IEEE 802.11n_Channel 159_40MHz_Antenna 0



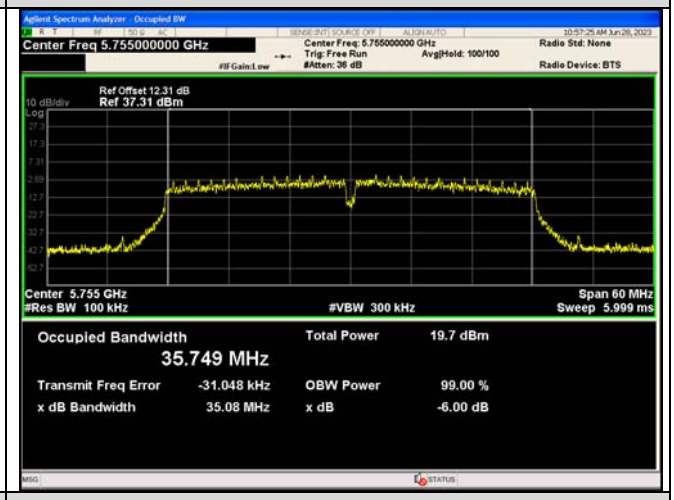
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



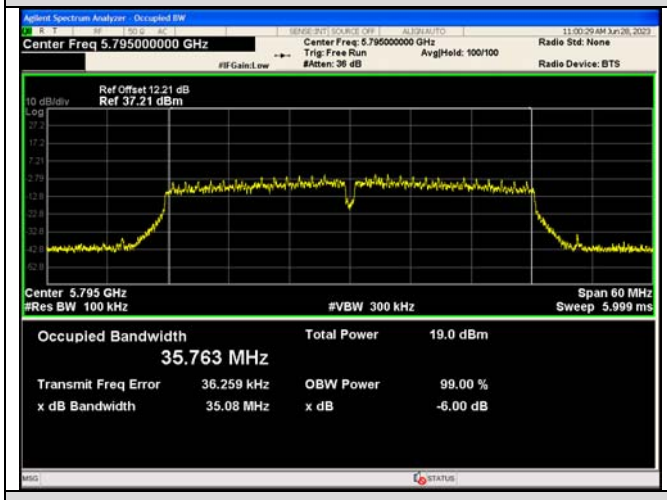
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



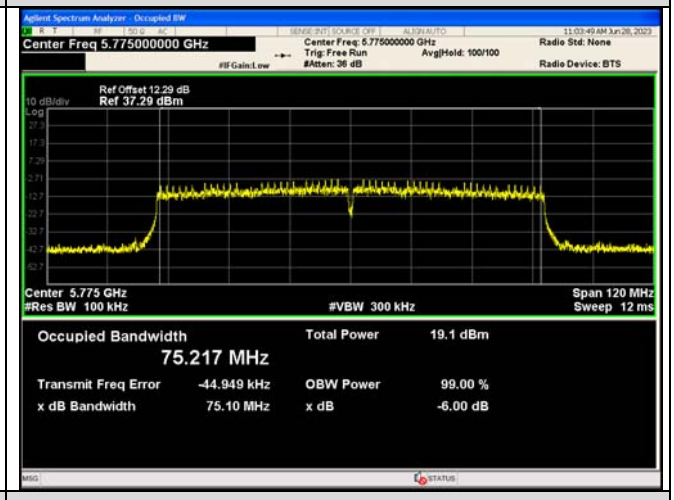
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



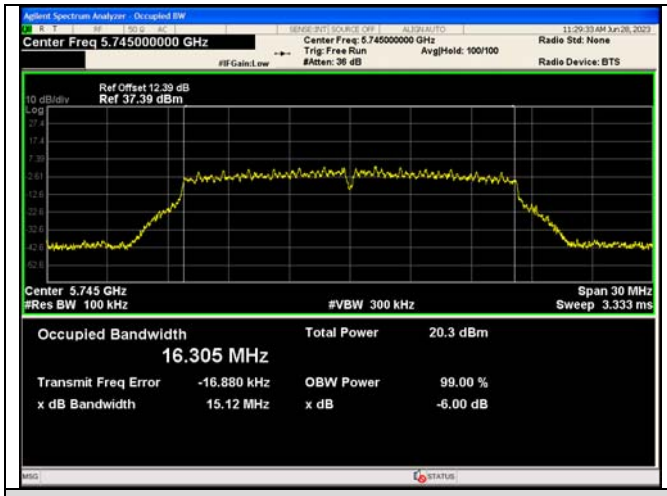
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Test Result

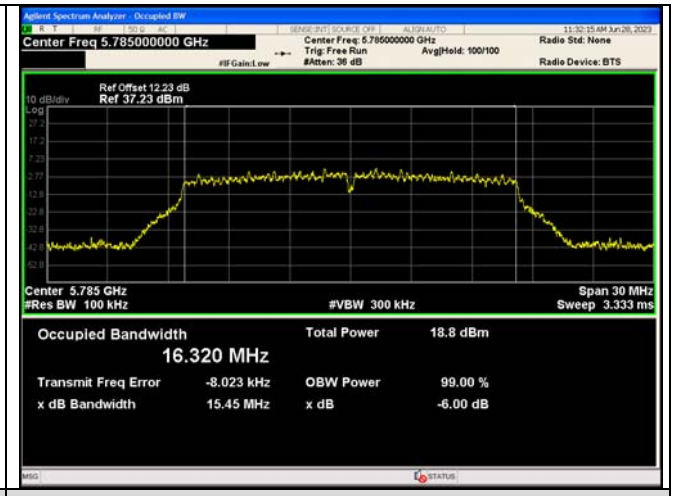
Antenna B:

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.12	0.5	PASS
	157		5785	15.45		PASS
	165		5825	15.74		PASS
IEEE 802.11n_20	149		5745	15.11		PASS
	157		5785	15.41		PASS
	165		5825	15.12		PASS
IEEE 802.11n_40	151		5755	35.09		PASS
	159		5795	35.10		PASS
IEEE 802.11ac_20	149		5745	15.12		PASS
	157		5785	16.93		PASS
	165		5825	15.11		PASS
IEEE 802.11ac_40	151		5755	35.10		PASS
	159		5795	35.11		PASS
IEEE 802.11ac_80	155		5775	75.14		PASS

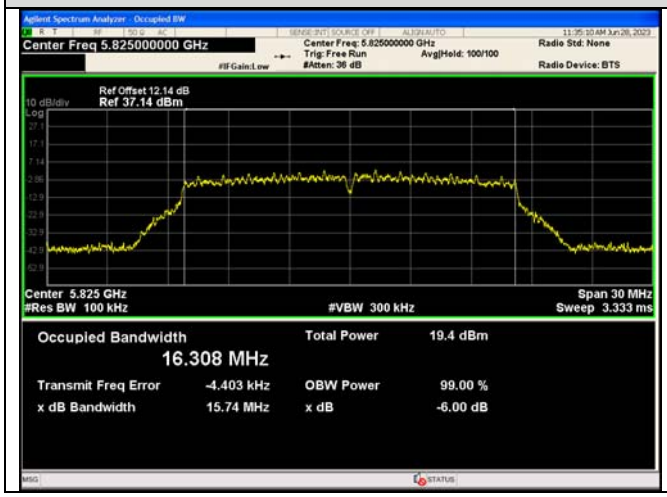
Test Graphs

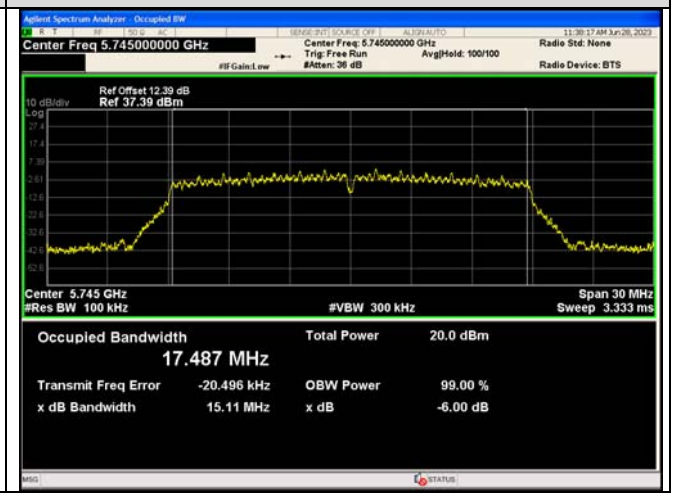


IEEE 802.11a_Channel 149_20MHz_Antenna 0

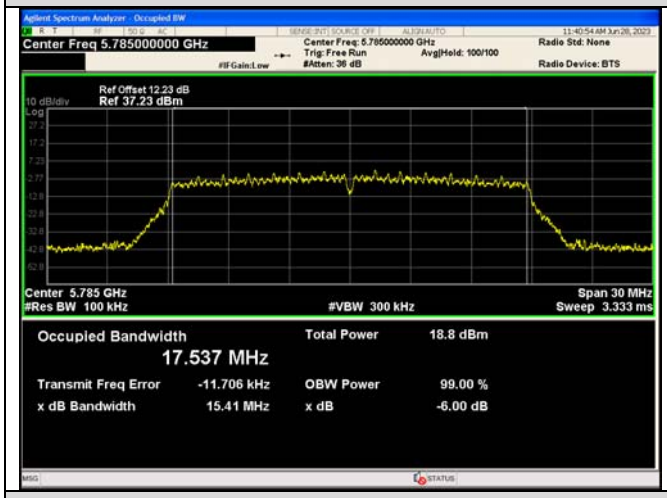


IEEE 802.11a_Channel 157_20MHz_Antenna 0

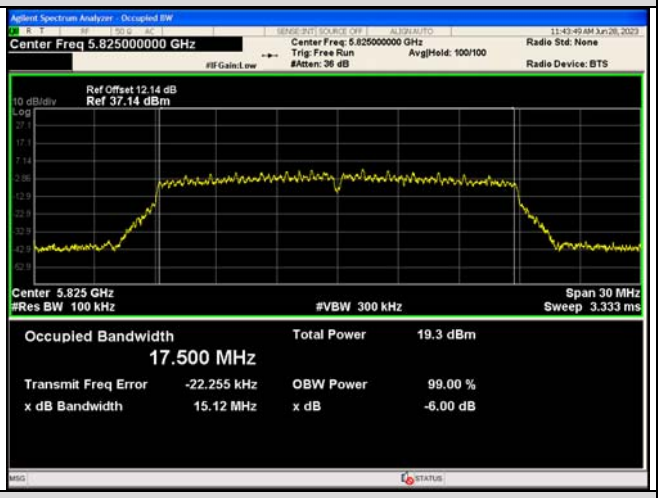




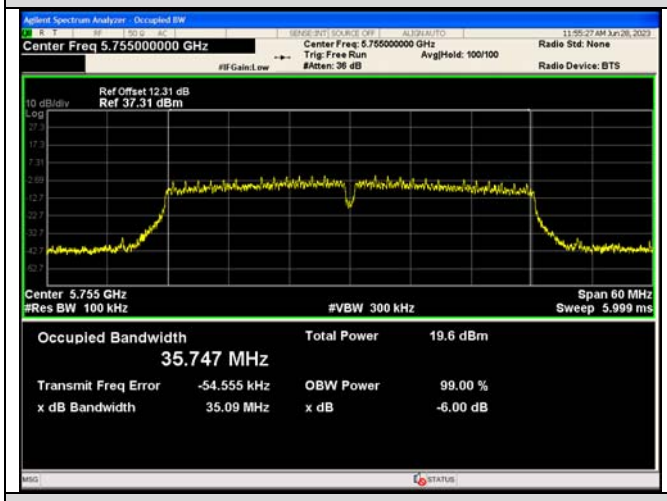
IEEE 802.11a_Channel 165_20MHz_Antenna 0



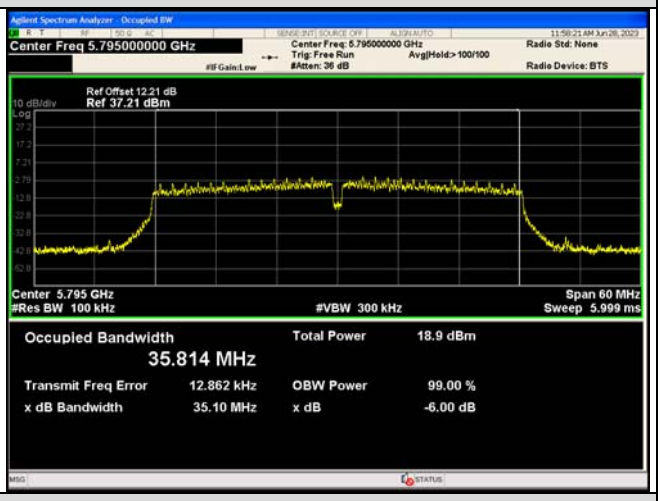
IEEE 802.11n_Channel 149_20MHz_Antenna 0



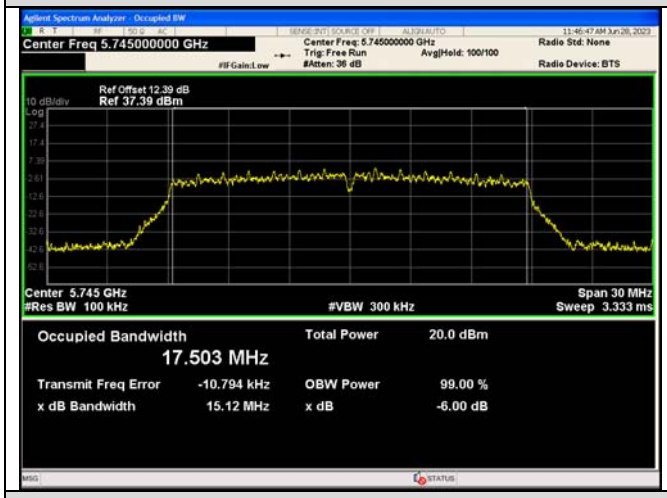
IEEE 802.11n_Channel 157_20MHz_Antenna 0



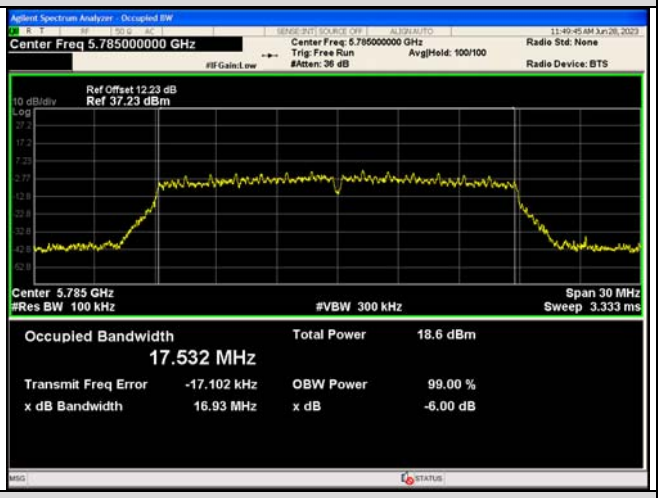
IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0

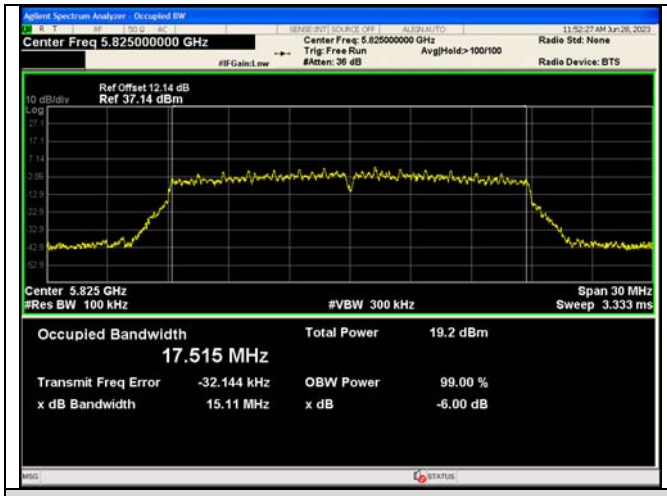


IEEE 802.11n_Channel 159_40MHz_Antenna 0

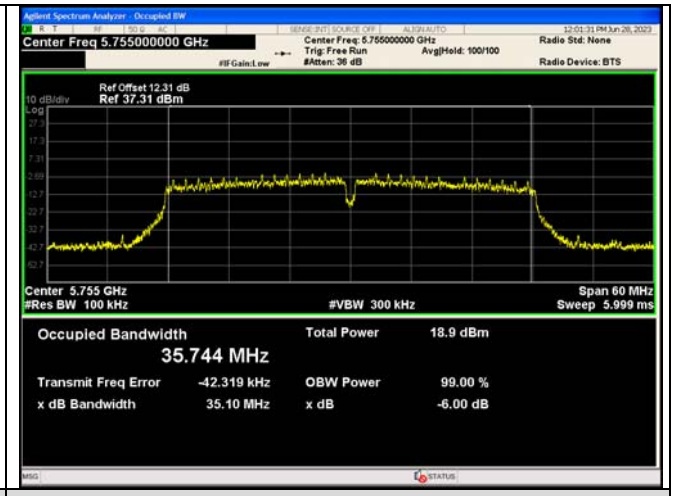


IEEE 802.11ac_Channel 149_20MHz_Antenna 0

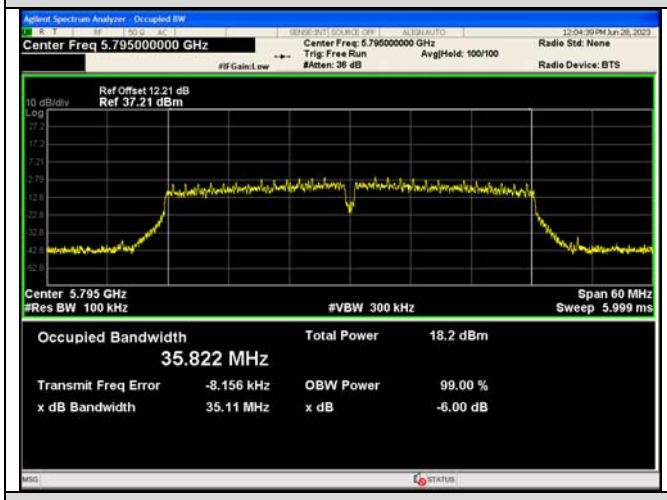
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



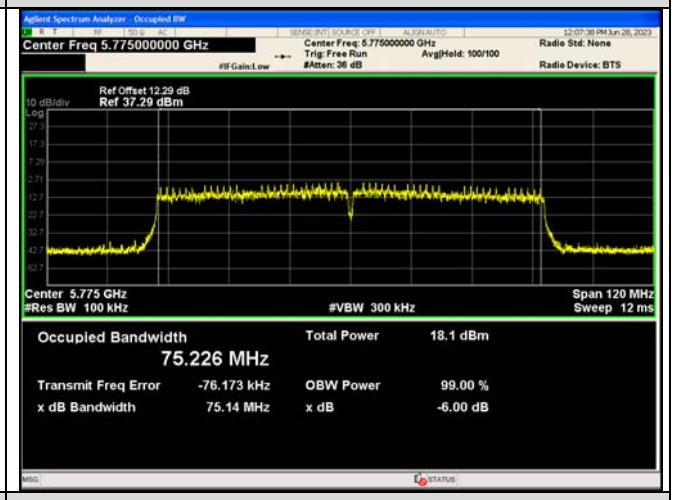
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



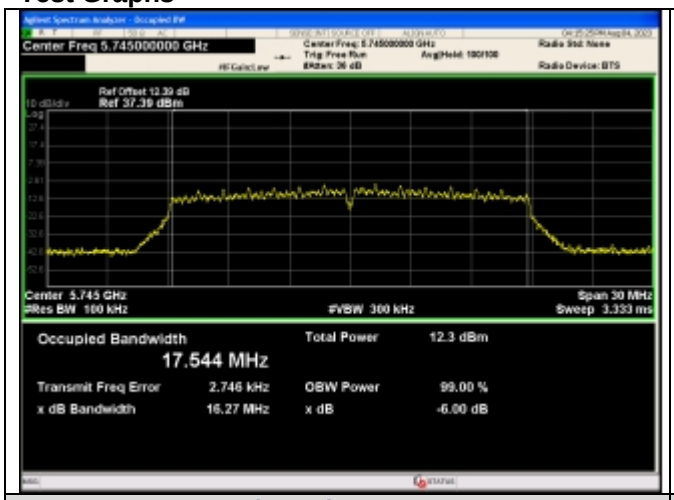
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Antenna A+ Antenna B:

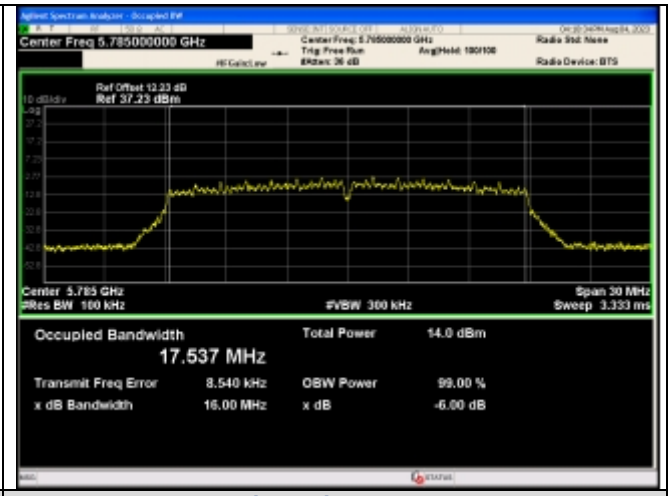
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11n_20	149	0	5745	16.27	0.5	PASS
	157		5785	16.00		PASS
	165		5825	16.02		PASS
IEEE 802.11n_40	151		5755	35.08		PASS
	159		5795	35.09		PASS
IEEE 802.11ac_20	149		5745	15.76		PASS
	157		5785	16.08		PASS
	165		5825	15.95		PASS
IEEE 802.11ac_40	151		5755	35.10		PASS
	159		5795	35.08		PASS
IEEE 802.11ac_80	155		5775	66.35		PASS

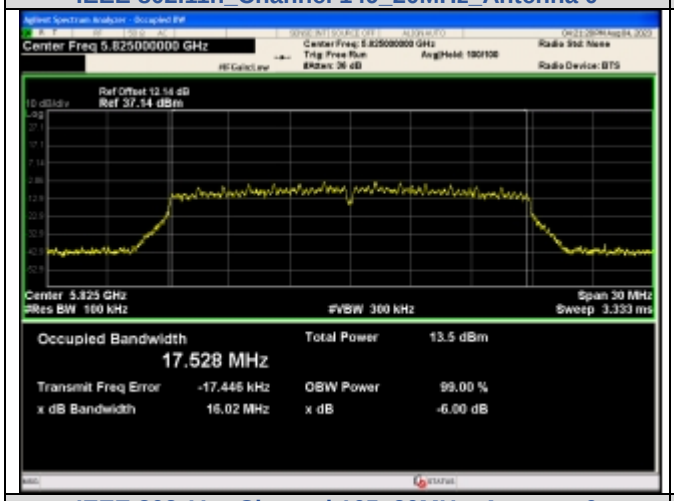
Test Graphs



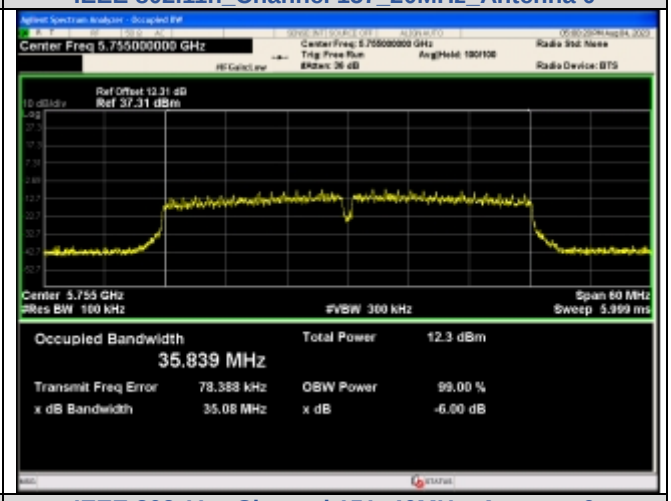
IEEE 802.11n_Channel 149_20MHz_Antenna 0



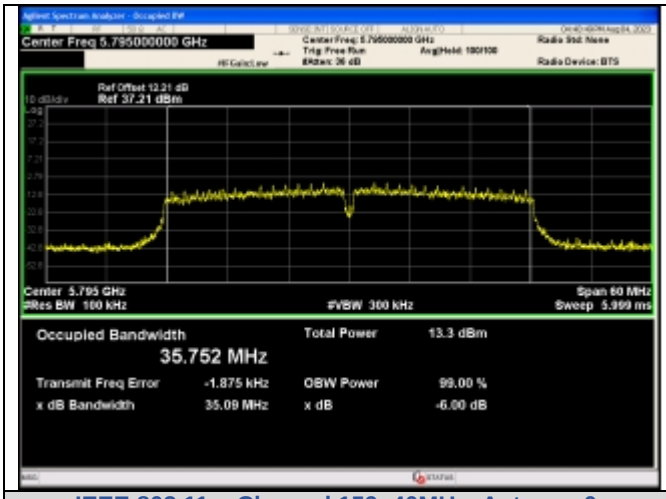
IEEE 802.11n_Channel 157_20MHz_Antenna 0



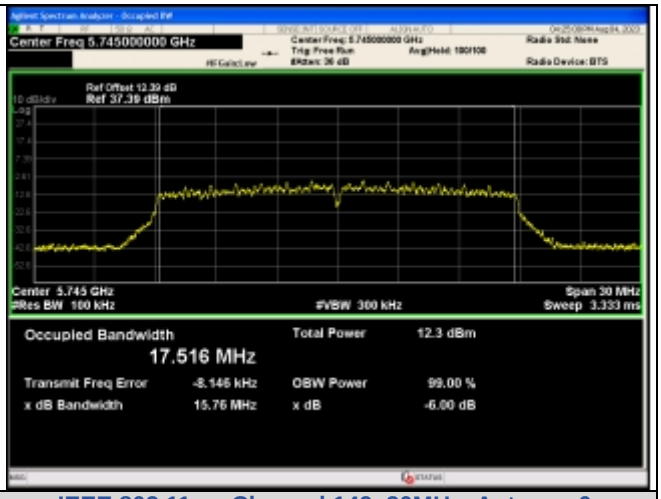
IEEE 802.11n_Channel 165_20MHz_Antenna 0



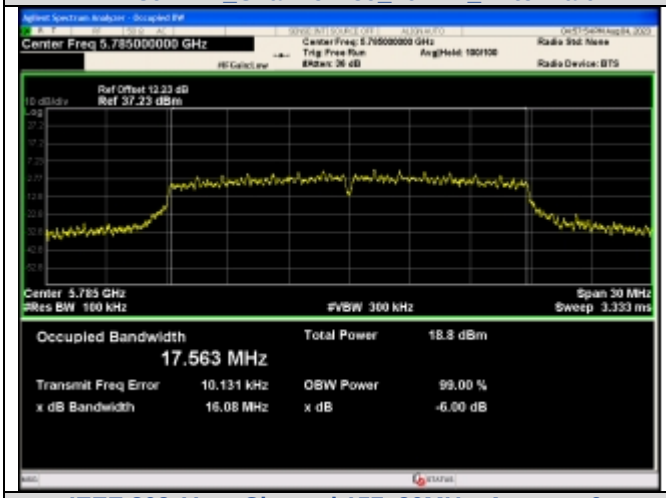
IEEE 802.11n_Channel 151_40MHz_Antenna 0



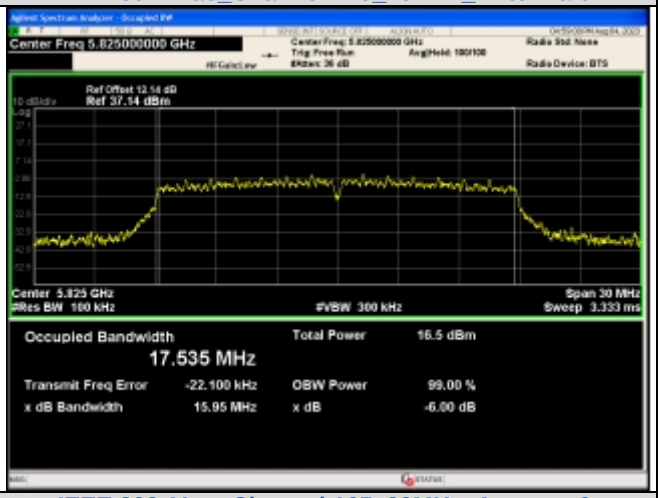
IEEE 802.11n_Channel 159_40MHz_Antenna 0



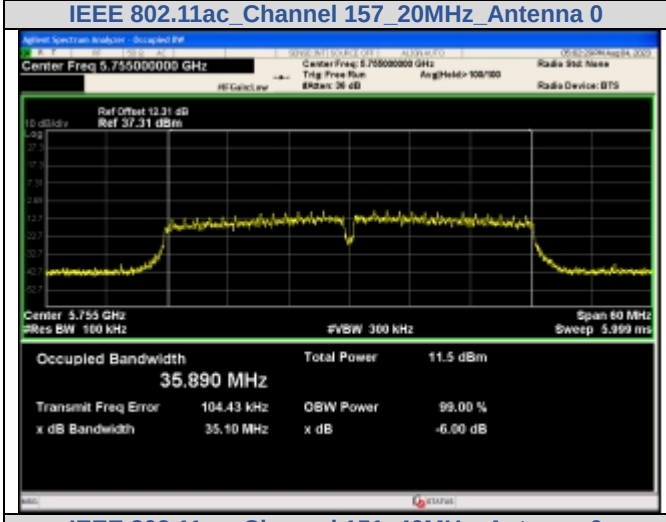
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



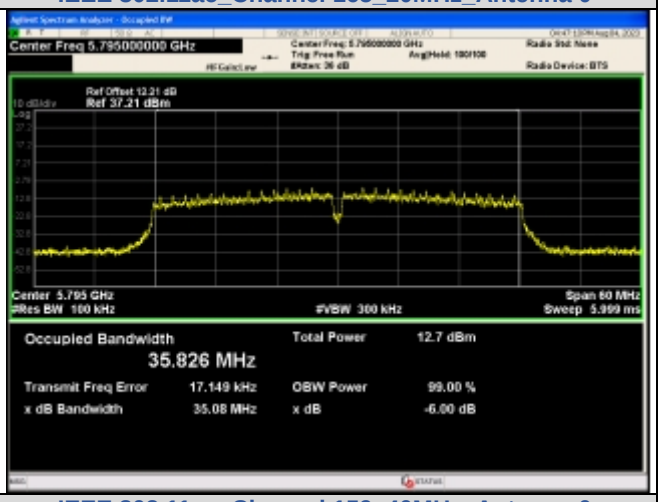
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0