

APPENIX FOR TEST DATA

Appendix D:Conducted Output Power

Test Result

Conducted output power							
Mode	Channel	RU & Index	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	N/A	14.92	12.86	N/A	24	PASS
	44		13.13	13.43	N/A		PASS
	48		13.57	12.65	N/A		PASS
IEEE 802.11n_20	36		13.23	12.13	15.725		PASS
	44		13.15	12.9	16.037		PASS
	48		13.33	12.65	16.014		PASS
IEEE 802.11n_40	38		11.31	12.14	14.755		PASS
	46		11.16	11.86	14.534		PASS
IEEE 802.11ac_20	36		13.83	12.6	16.269		PASS
	44		13.15	12.85	16.013		PASS
	48		13.31	12.38	15.880		PASS
IEEE 802.11ac_40	38		11.44	11.92	14.697		PASS
	46		10.91	13.64	15.496		PASS
IEEE 802.11ac_80	42		12.71	11.51	15.162		PASS
IEEE 802.11ax_20	36	SU	12.09	11.86	14.987	30	PASS
	44		13.3	14.4	16.895		PASS
	48		13.7	13.69	16.705		PASS
IEEE 802.11ax_40	38		11.2	13.3	15.386		PASS
	46		12.65	14.07	16.428		PASS
IEEE 802.11ax_80	42		13.08	11.39	15.327		PASS
IEEE 802.11a	149	N/A	12.5	9.02	N/A		PASS
	157		11.88	10.05	N/A		PASS
	165		12.27	9.09	N/A		PASS
IEEE 802.11n_20	149		11.29	10.05	13.724		PASS
	157		11.89	10.14	14.113		PASS
	165		11.78	9.85	13.932		PASS
IEEE 802.11n_40	151		11.37	9.86	13.691		PASS
	159		12.54	9.55	14.308		PASS
IEEE 802.11ac_20	149		11.29	10.09	13.742		PASS
	157		11.89	10.13	14.109		PASS
	165		11.77	9.83	13.918		PASS
IEEE 802.11ac_40	151		11.23	9.72	13.551		PASS
	159		12.29	9.0	13.960		PASS
IEEE 802.11ac_80	155		11.72	9.29	13.683		PASS
IEEE 802.11ax_20	149	SU	11.55	10.29	13.976		PASS
	157		11.87	10.4	14.207		PASS
	165		11.85	10.2	14.113		PASS
IEEE 802.11ax_40	151		12.12	9.74	14.101		PASS

	159		13.06	9.71	14.711		PASS
IEEE 802.11ax_80	155		11.82	9.14	13.694		PASS

Note:

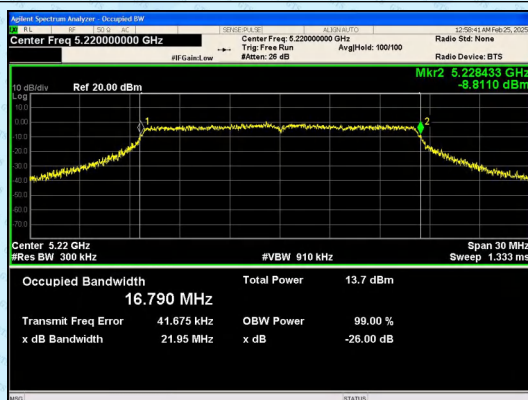
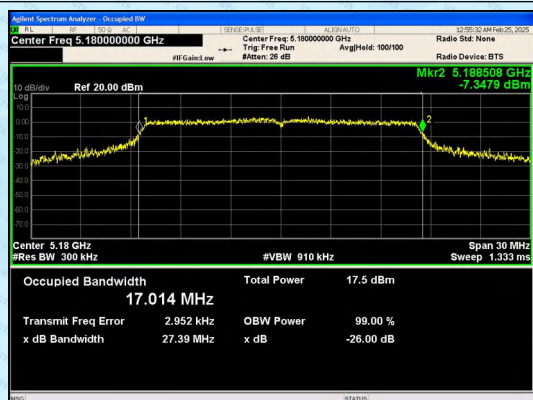
1. The power of antenna 0 and antenna 1 is converted into milliwatt units, and the added power is taken logarithmically and multiplied by 10.
2. The duty cycle is 100%, and the corresponding duty cycle factor is 0.

99% Bandwidth

Test Result for Ant0

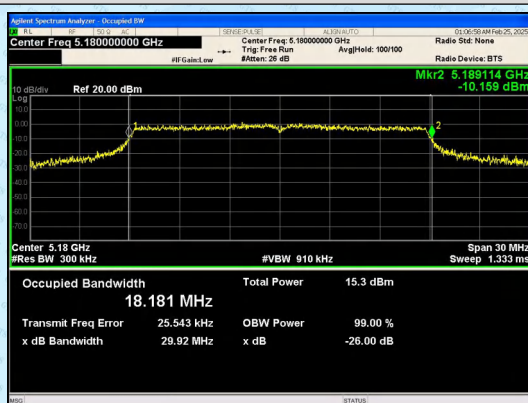
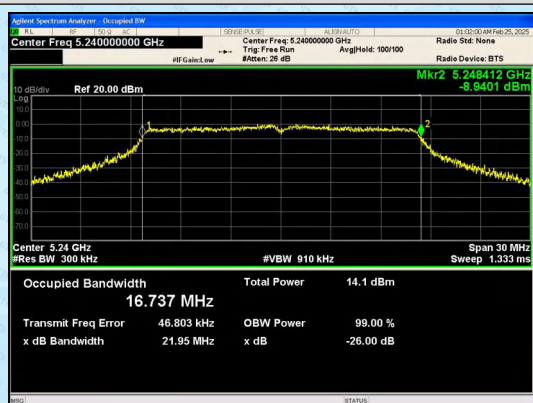
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11a	36	N/A	0	5180	17.014
	44			5220	16.790
	48			5240	16.737
IEEE 802.11n_20	36			5180	18.181
	44			5220	17.955
	48			5240	17.968
IEEE 802.11n_40	38			5190	36.242
	46			5230	36.036
IEEE 802.11ac_20	36			5180	18.463
	44			5220	18.035
	48			5240	18.095
IEEE 802.11ac_40	38			5190	36.312
	46			5230	36.027
IEEE 802.11ac_80	42			5210	76.272
IEEE 802.11ax_20	36	SU	0	5180	19.240
	44			5220	19.152
	48			5240	19.152
IEEE 802.11ax_40	38			5190	37.789
	46			5230	37.643
IEEE 802.11ax_80	42			5210	77.605
IEEE 802.11a	149	N/A	0	5745	17.006
	157			5785	16.794
	165			5825	16.801
IEEE 802.11n_20	149			5745	18.169
	157			5785	18.065
	165			5825	18.004
IEEE 802.11n_40	151			5755	36.304
	159			5795	36.227
IEEE 802.11ac_20	149			5745	18.144
	157			5785	18.051
	165			5825	18.013
IEEE 802.11ac_40	151			5755	36.315
	159			5795	36.196
IEEE 802.11ac_80	155			5775	75.922
IEEE 802.11ax_20	149	SU	0	5745	19.169
	157			5785	19.118
	165			5825	19.089
IEEE 802.11ax_40	151			5755	37.734
	159			5795	37.692
IEEE 802.11ax_80	155			5775	77.677

Test Graphs for Ant0



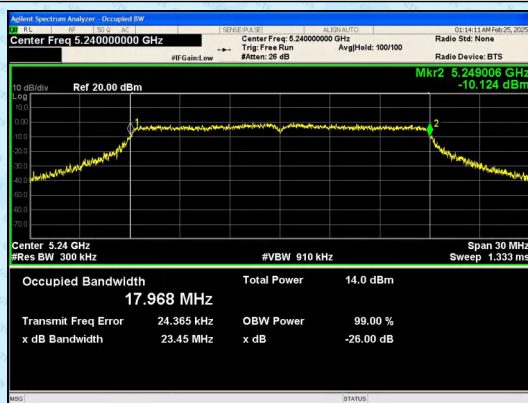
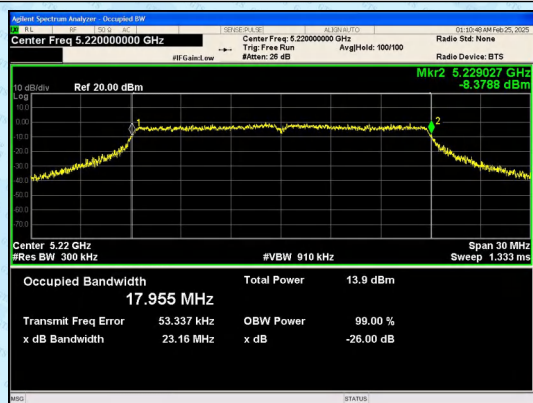
IEEE 802.11a_Channel 36_20MHz_Antenna 0

IEEE 802.11a_Channel 44_20MHz_Antenna 0



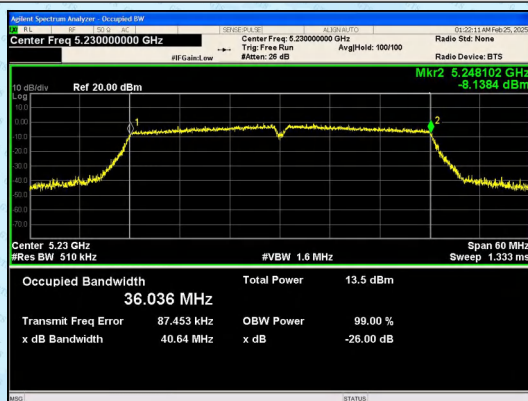
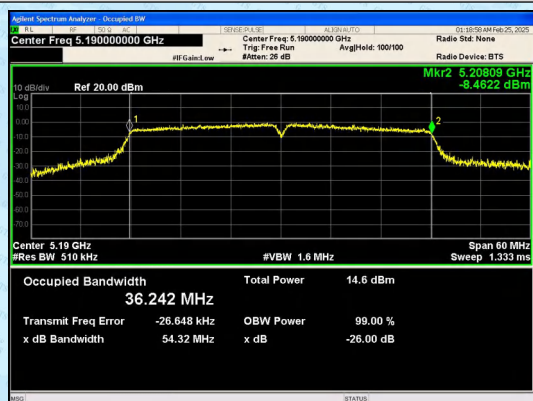
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IEEE 802.11n_Channel 36_20MHz_Antenna 0



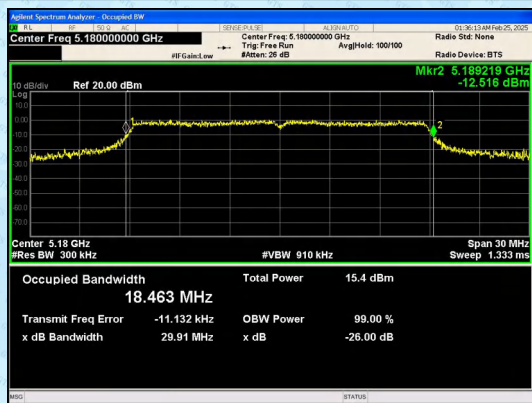
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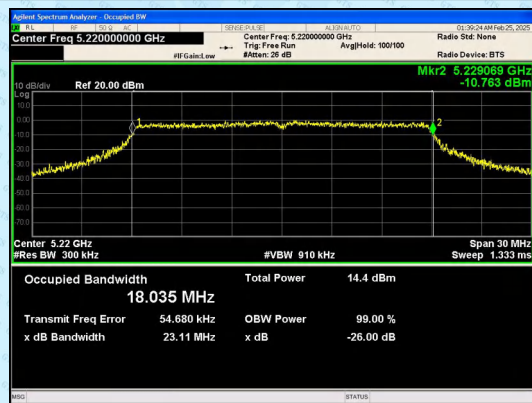


IEEE 802.11n_Channel 38_40MHz_Antenna 0

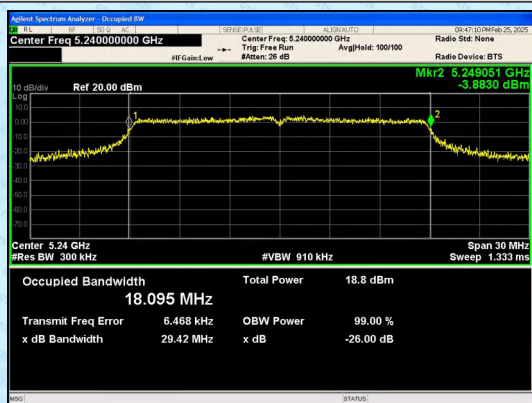
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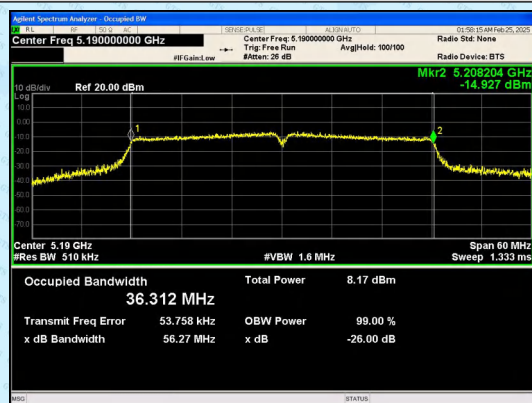
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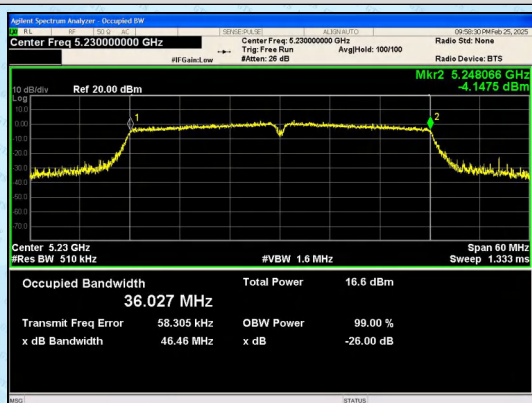
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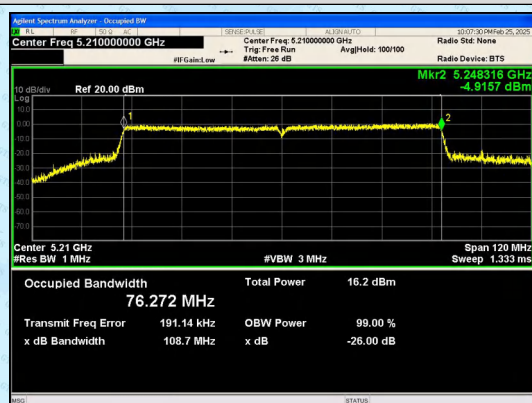
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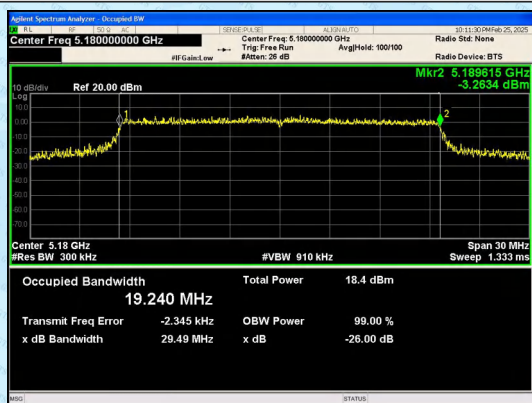
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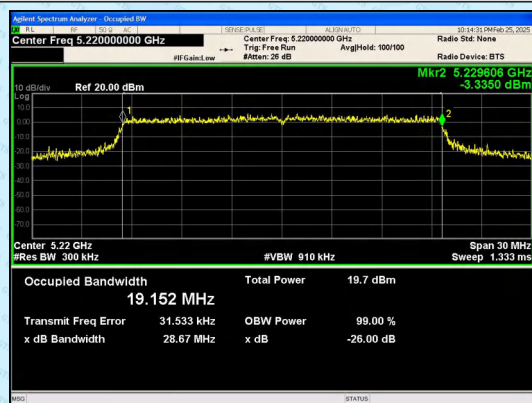
IEEE 802.11ac_Channel 46_40MHz_Antenna 0



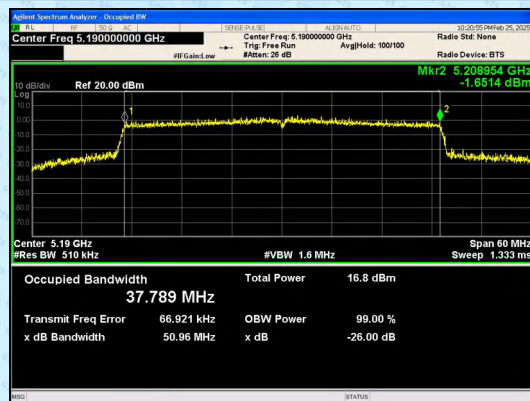
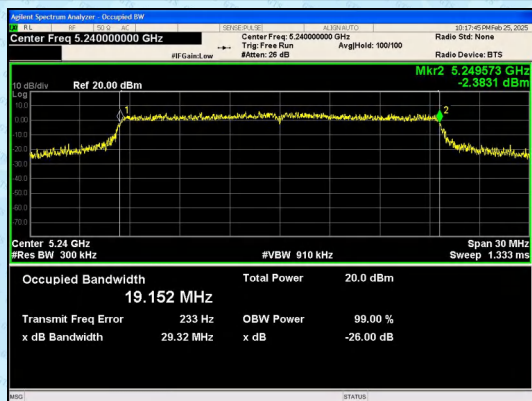
IEEE 802.11ac_Channel 42_80MHz_Antenna 0



IEEE 802.11ax_Channel 36_20MHz_Antenna 0_RU&Index SU

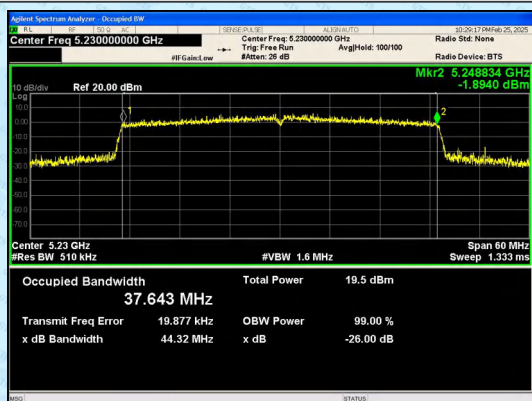


IEEE 802.11ax_Channel 44_20MHz_Antenna 0_RU&Index SU



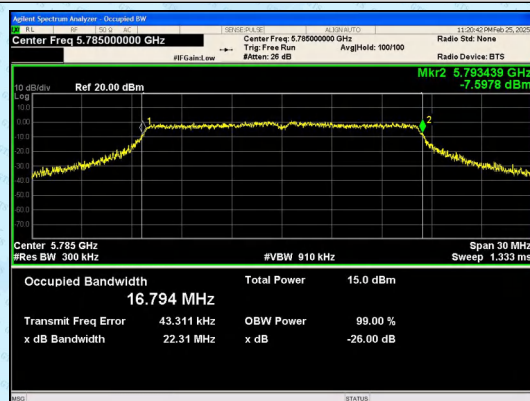
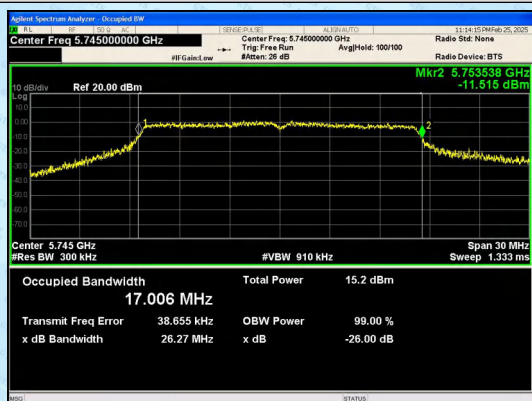
IEEE 802.11ax_Channel 48_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 38_40MHz_Antenna 0_RU&Index SU



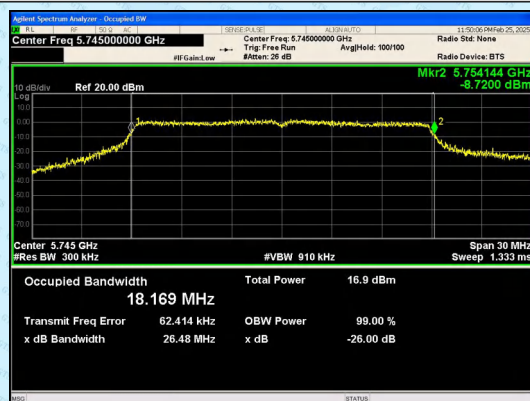
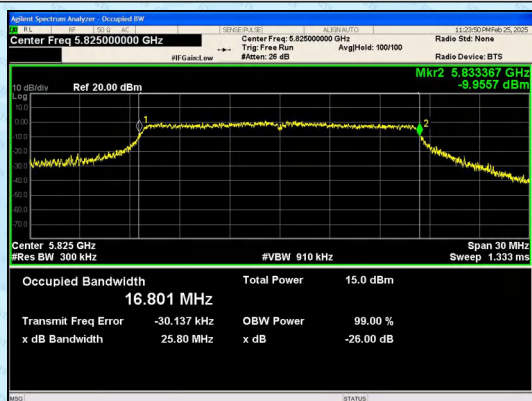
IEEE 802.11ax_Channel 46_40MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 42_80MHz_Antenna 0_RU&Index SU



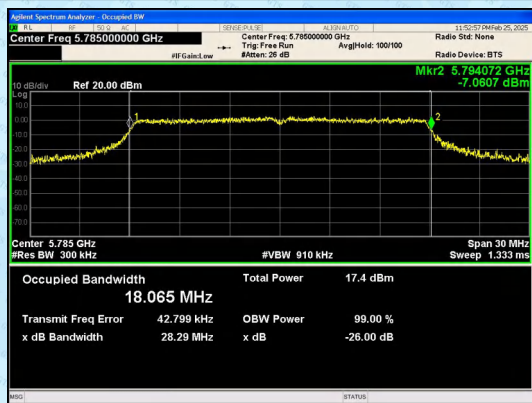
IEEE 802.11a_Channel 149_20MHz_Antenna 0

IEEE 802.11a_Channel 157_20MHz_Antenna 0

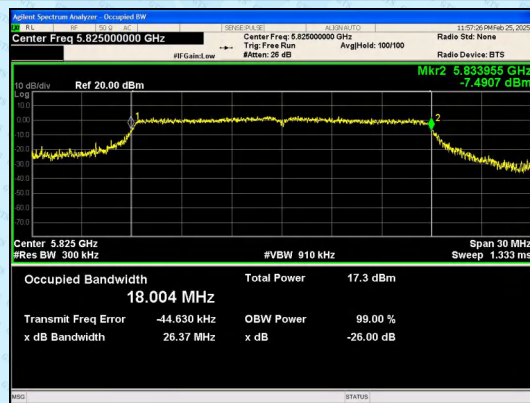


IEEE 802.11a_Channel 165_20MHz_Antenna 0

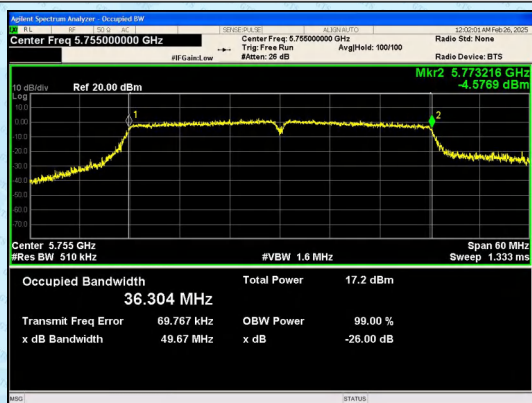
IEEE 802.11n_Channel 149_20MHz_Antenna 0



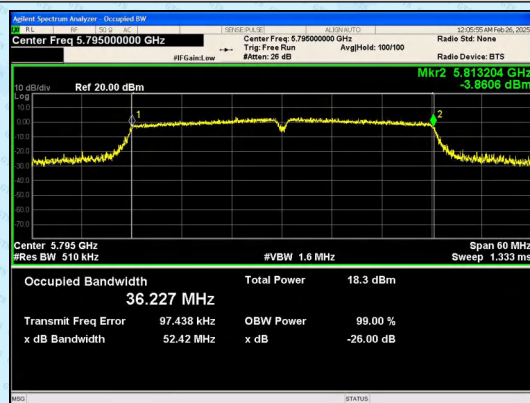
IEEE 802.11n_Channel 157_20MHz_Antenna 0



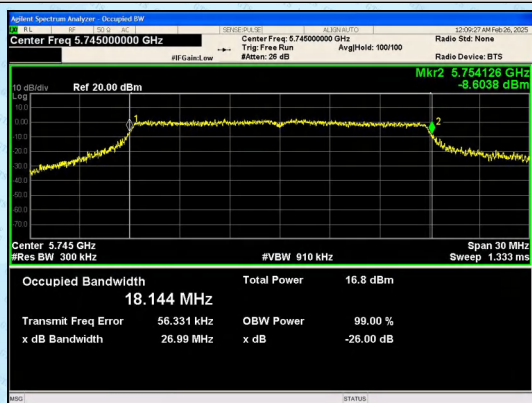
IEEE 802.11n_Channel 165_20MHz_Antenna 0



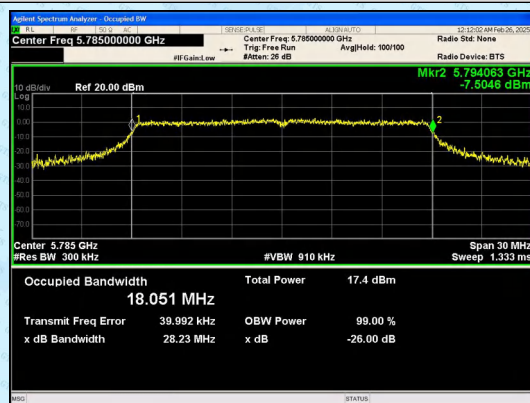
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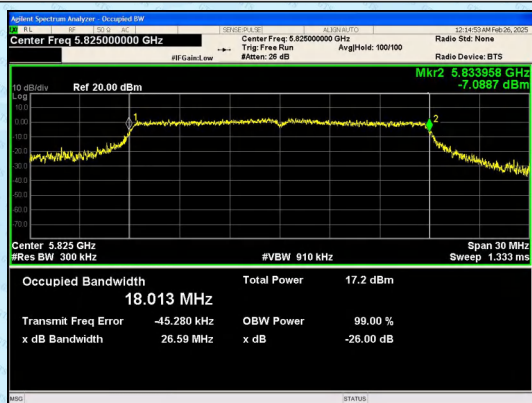
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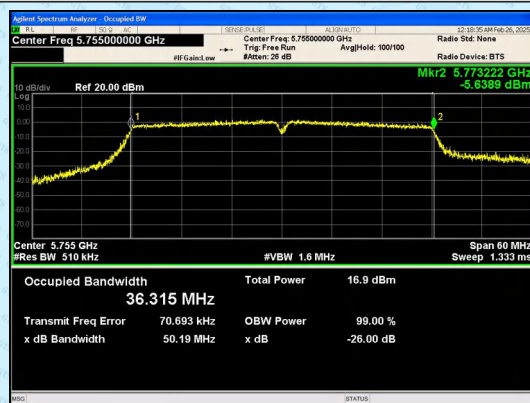
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



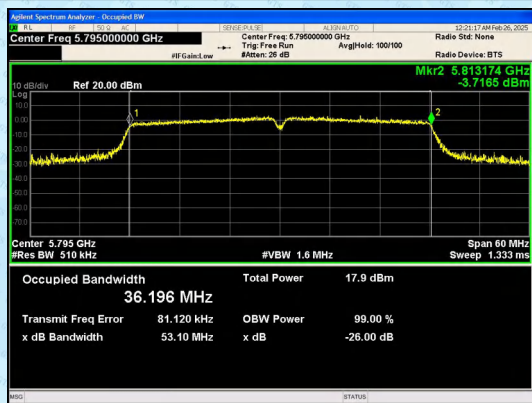
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



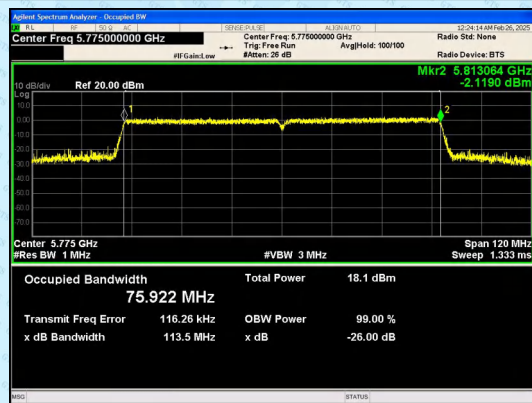
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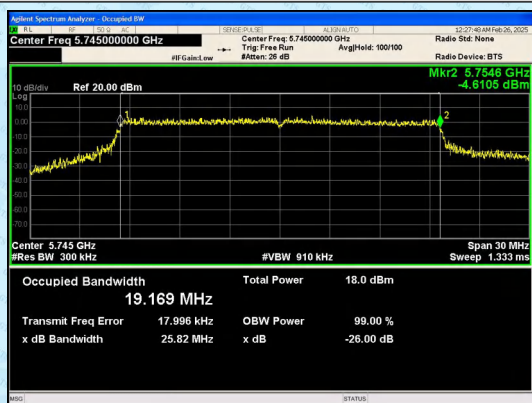
IEEE 802.11ac_Channel 151_40MHz_Antenna 0



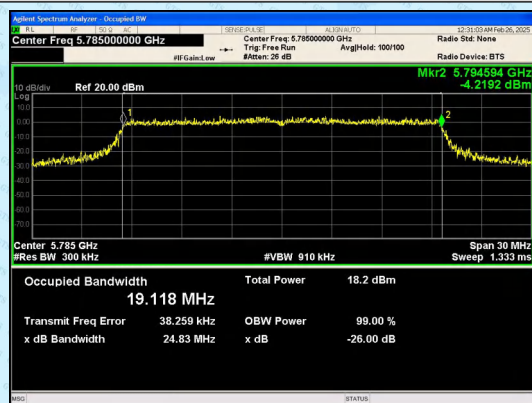
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



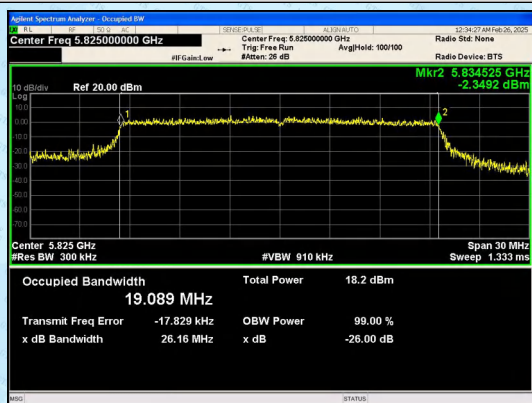
IEEE 802.11ac_Channel 155_80MHz_Antenna 0



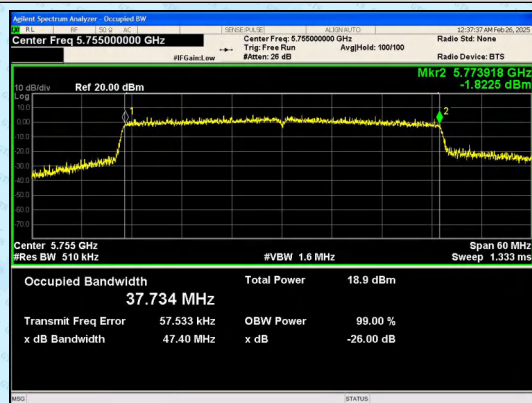
IEEE 802.11ax_Channel 149_20MHz_Antenna 0_RU&Index SU



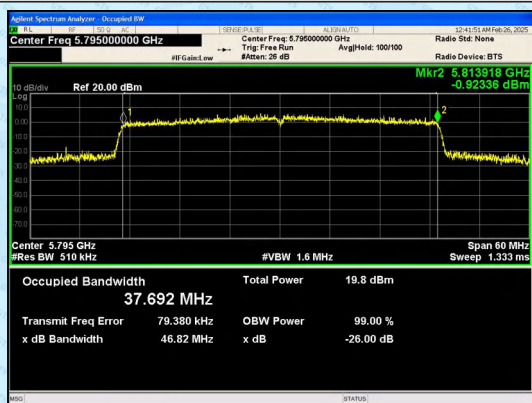
IEEE 802.11ax_Channel 157_20MHz_Antenna 0_RU&Index SU



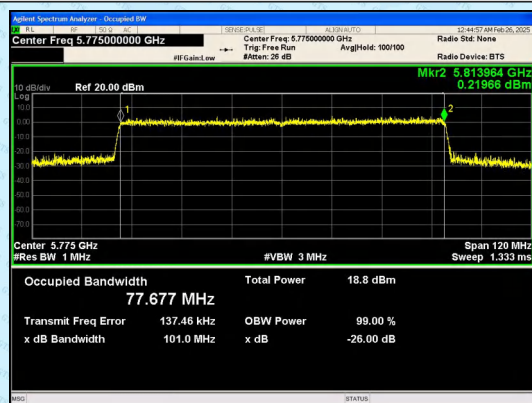
IEEE 802.11ax_Channel 165_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 151_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index SU



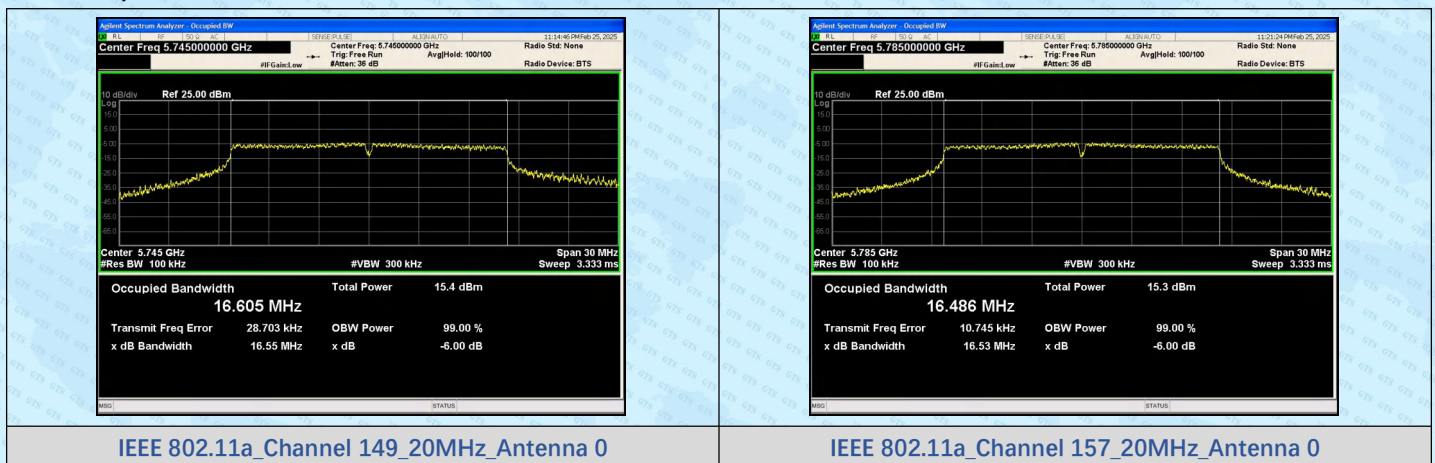
IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index SU

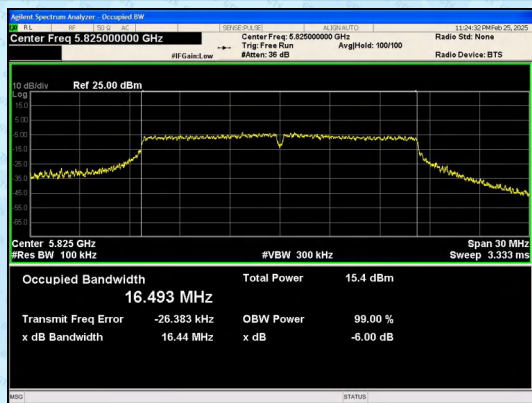
6dB Bandwidth

Test Result for Ant0

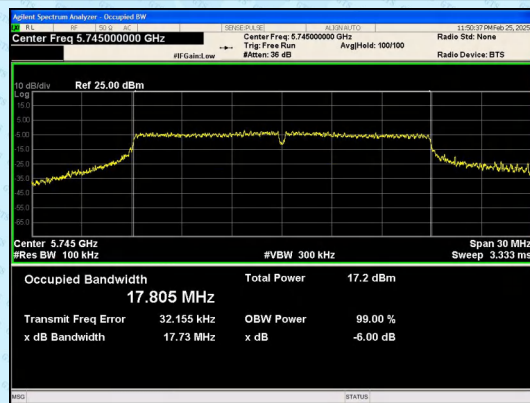
Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	N/A	0	5745	16.55	≥0.5	PASS
	157			5785	16.53		PASS
	165			5825	16.44		PASS
IEEE 802.11n_20	149			5745	17.73		PASS
	157			5785	17.78		PASS
	165			5825	17.70		PASS
IEEE 802.11n_40	151			5755	36.35		PASS
	159			5795	36.33		PASS
IEEE 802.11ac_20	149			5745	17.78		PASS
	157			5785	17.76		PASS
	165			5825	17.73		PASS
IEEE 802.11ac_40	151			5755	36.34		PASS
	159			5795	36.33		PASS
IEEE 802.11ac_80	155			5775	76.55		PASS
IEEE 802.11ax_20	149	SU		5745	19.09	PASS	
	157			5785	19.05	PASS	
	165			5825	18.98	PASS	
IEEE 802.11ax_40	151			5755	37.90	PASS	
	159			5795	37.50	PASS	
IEEE 802.11ax_80	155			5775	78.11	PASS	

Test Graphs for Ant0

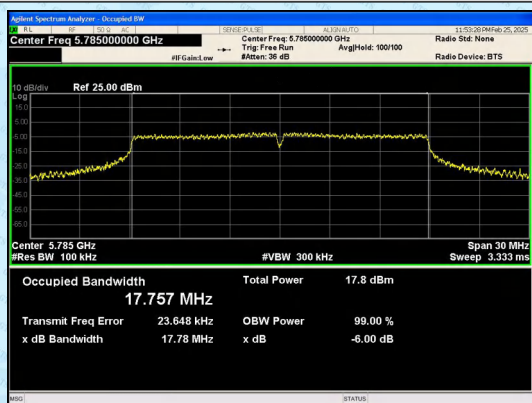




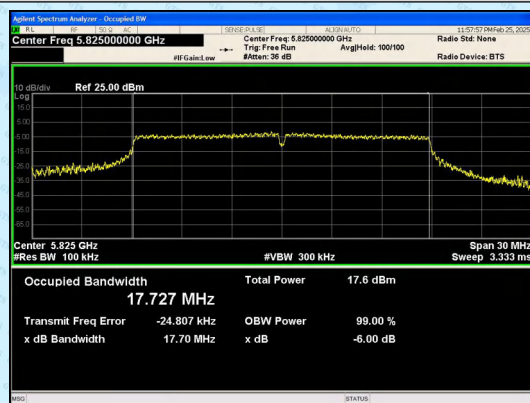
IEEE 802.11a_Channel 165_20MHz_Antenna 0



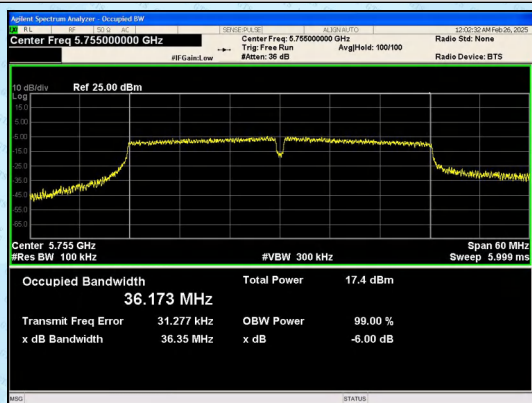
IEEE 802.11n_Channel 149_20MHz_Antenna 0



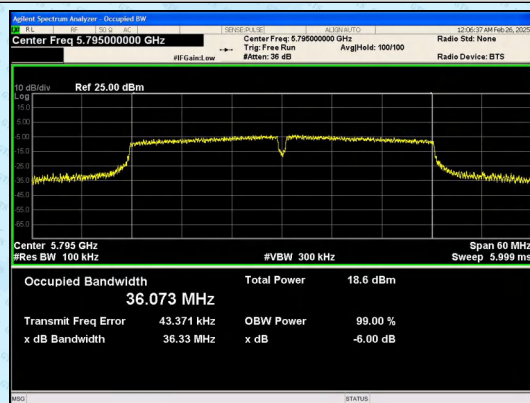
IEEE 802.11n_Channel 157_20MHz_Antenna 0



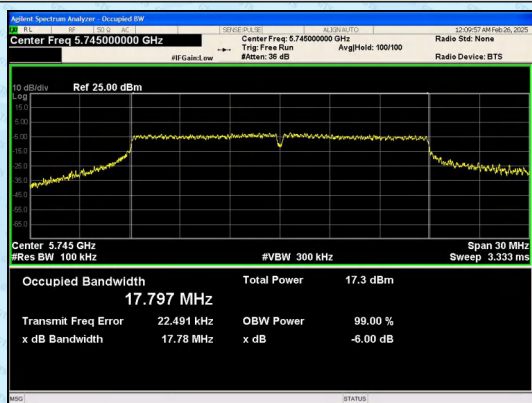
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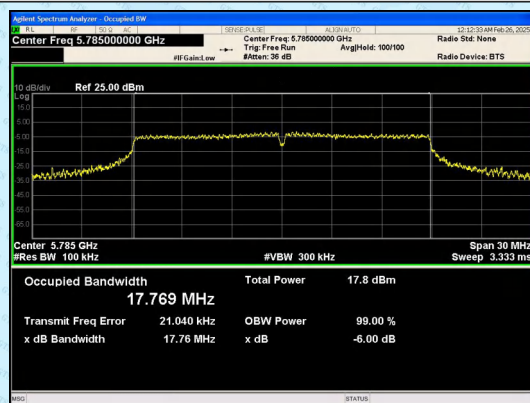
IEEE 802.11n_Channel 151_40MHz_Antenna 0



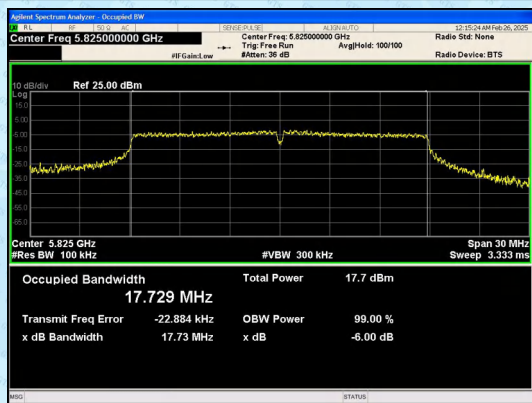
IEEE 802.11n_Channel 159_40MHz_Antenna 0



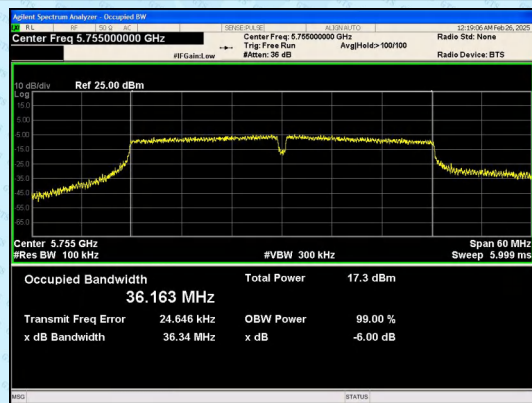
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



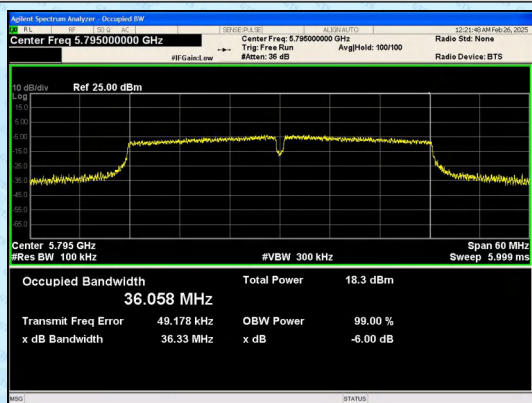
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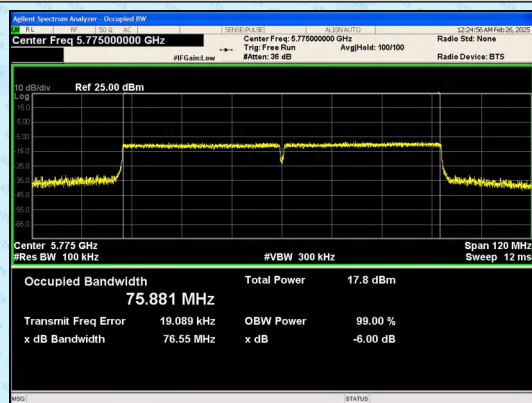
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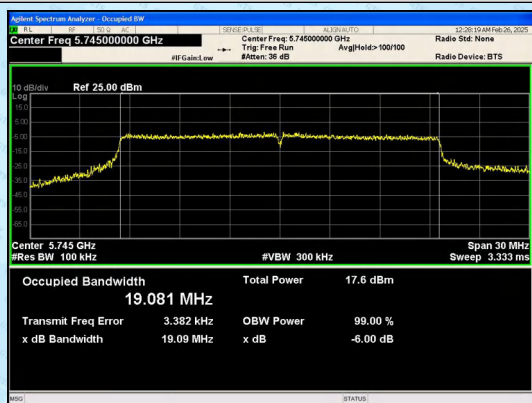
IEEE 802.11ac_Channel 151_40MHz_Antenna 0



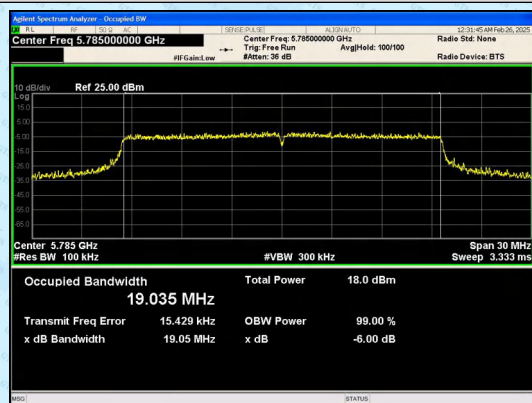
IEEE 802.11ac_Channel 159_40MHz_Antenna 0



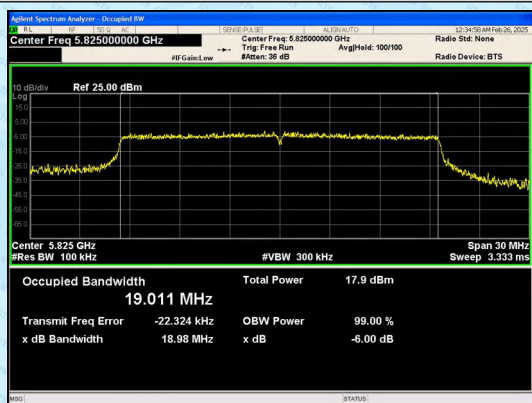
IEEE 802.11ac_Channel 155_80MHz_Antenna 0



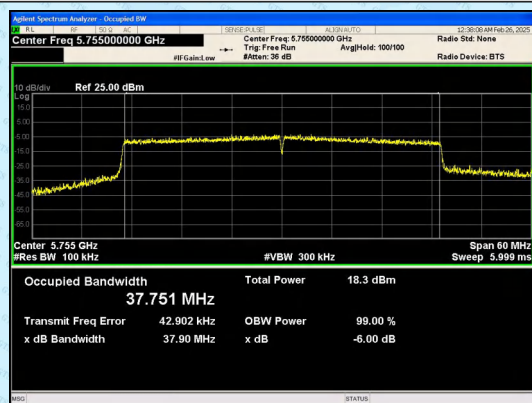
IEEE 802.11ax_Channel 149_20MHz_Antenna 0_RU&Index SU



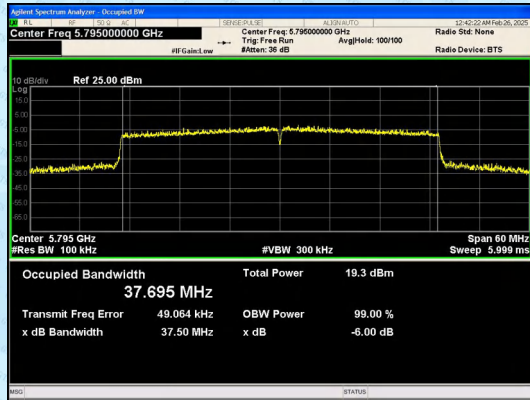
IEEE 802.11ax_Channel 157_20MHz_Antenna 0_RU&Index SU



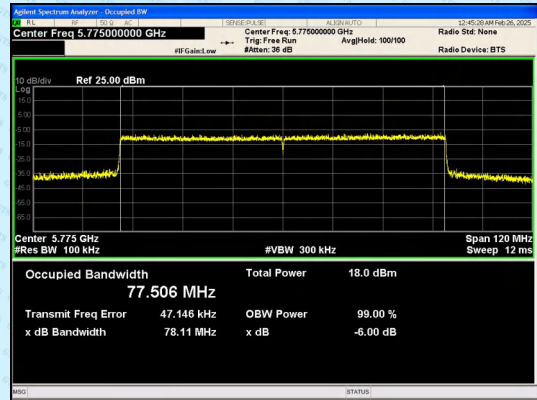
IEEE 802.11ax_Channel 165_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 151_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index SU



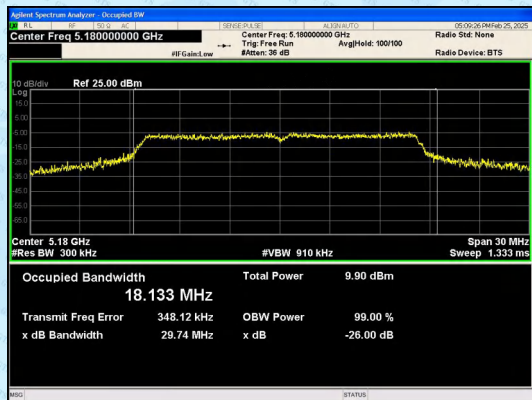
IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index SU

26dB Bandwidth

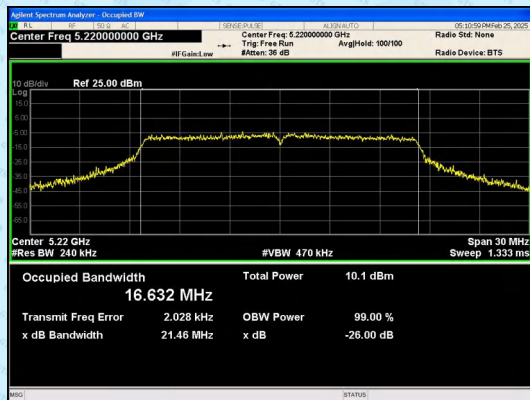
Test Result for Ant0

Mode	Channel	RU & Index	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)
IEEE 802.11a	36	N/A	0	5180	29.74
	44			5220	21.46
	48			5240	21.57
IEEE 802.11n_20	36			5180	30.00
	44			5220	22.76
	48			5240	23.10
IEEE 802.11n_40	38			5190	51.75
	46			5230	40.65
IEEE 802.11ac_20	36			5180	29.94
	44			5220	22.24
	48			5240	28.79
IEEE 802.11ac_40	38			5190	53.02
	46			5230	40.66
IEEE 802.11ac_80	42			5210	109.66
IEEE 802.11ax_20	36	SU	5180	29.51	
	44		5220	29.81	
	48		5240	26.16	
IEEE 802.11ax_40	38		5190	49.19	
	46		5230	39.54	
IEEE 802.11ax_80	42		5210	96.23	

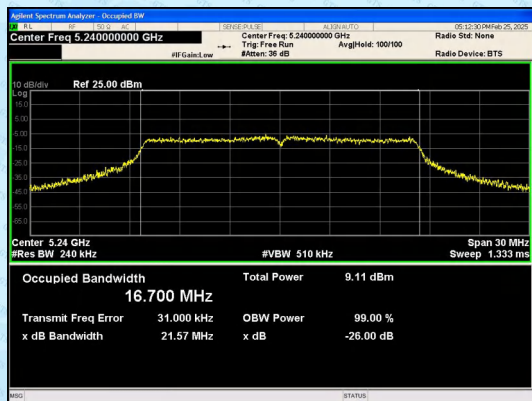
Test Graphs for Ant0



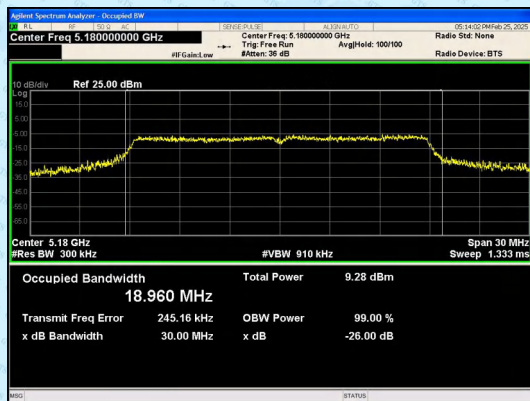
IEEE 802.11a_Channel 36_20MHz_Antenna 0



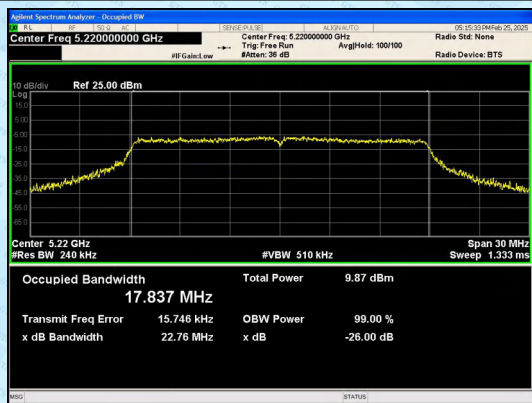
IEEE 802.11a_Channel 44_20MHz_Antenna 0



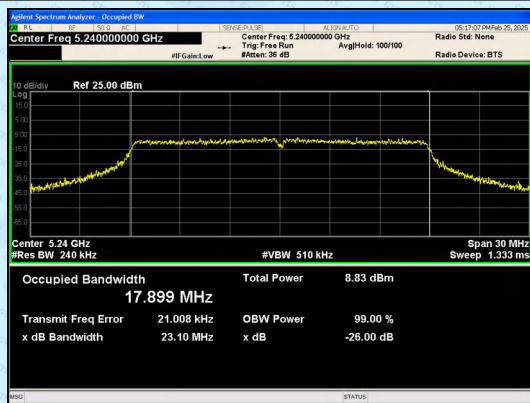
IEEE 802.11a_Channel 48_20MHz_Antenna 0



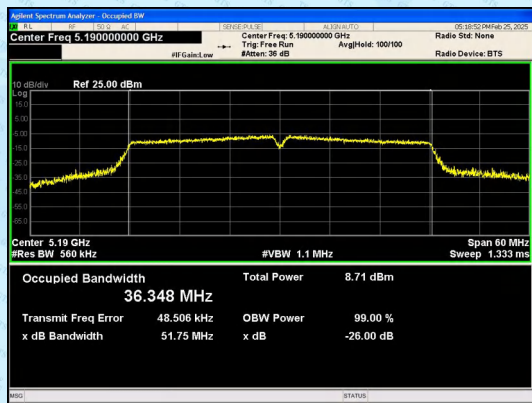
IEEE 802.11n_Channel 36_20MHz_Antenna 0



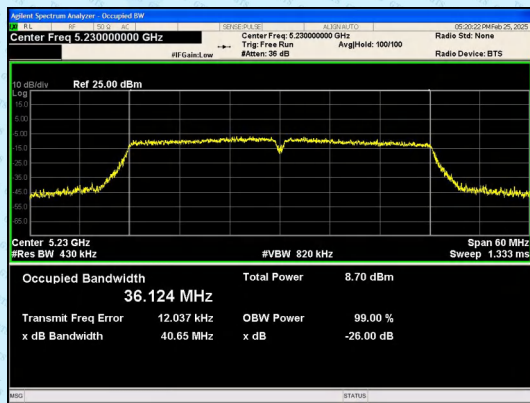
IEEE 802.11n_Channel 44_20MHz_Antenna 0



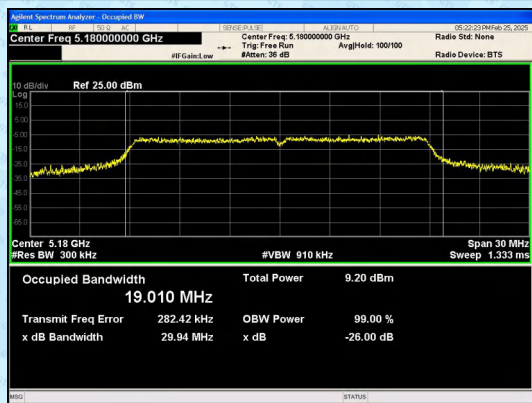
IEEE 802.11n_Channel 48_20MHz_Antenna 0



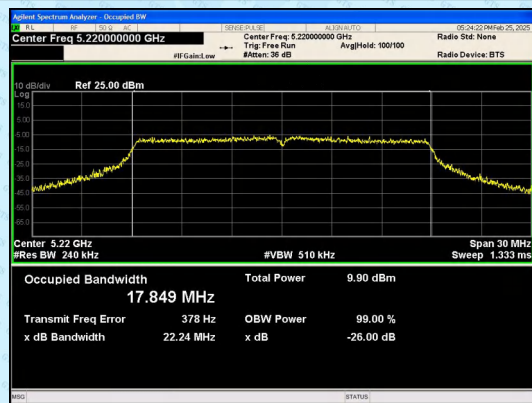
IEEE 802.11n_Channel 38_40MHz_Antenna 0



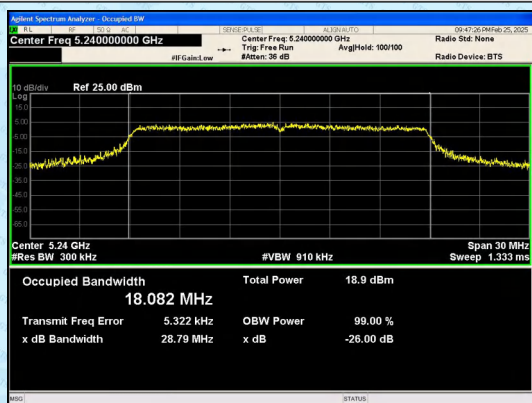
IEEE 802.11n_Channel 46_40MHz_Antenna 0



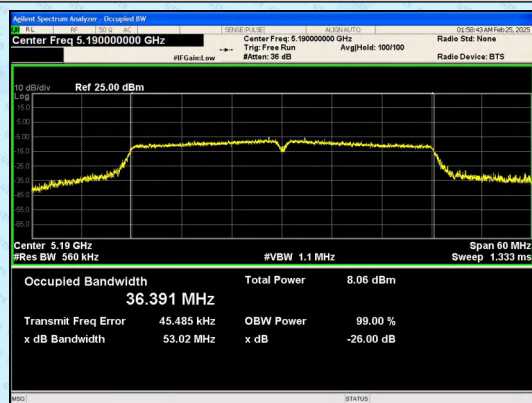
IEEE 802.11ac_Channel 36_20MHz_Antenna 0



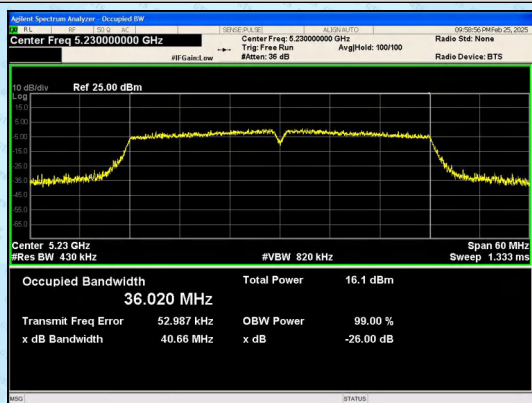
IEEE 802.11ac_Channel 44_20MHz_Antenna 0



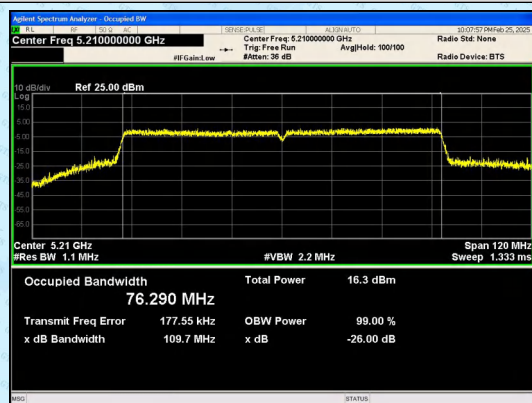
IEEE 802.11ac_Channel 48_20MHz_Antenna 0



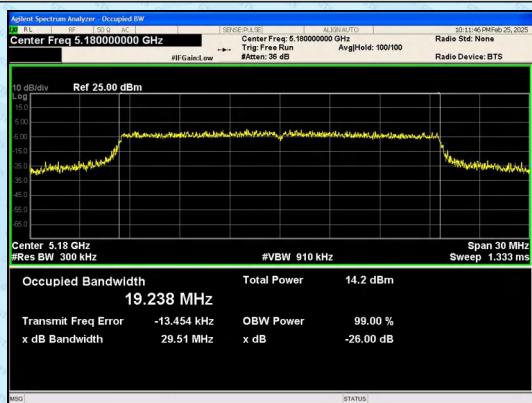
IEEE 802.11ac_Channel 38_40MHz_Antenna 0



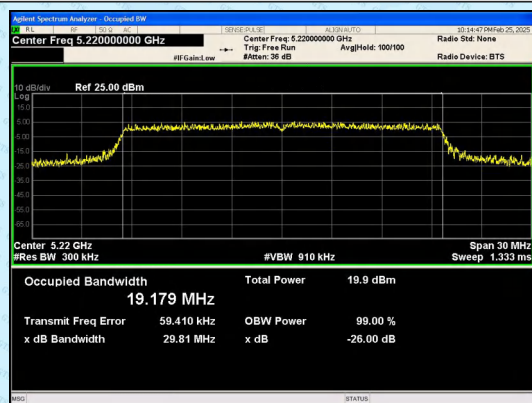
IEEE 802.11ac_Channel 46_40MHz_Antenna 0



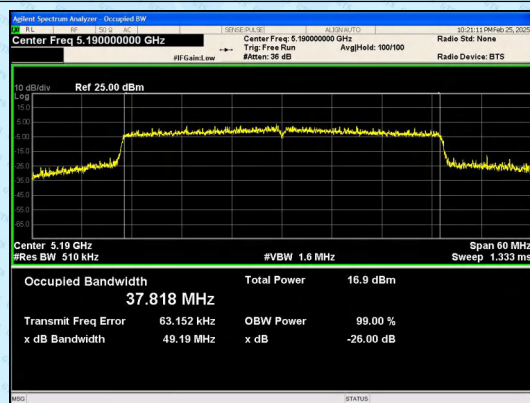
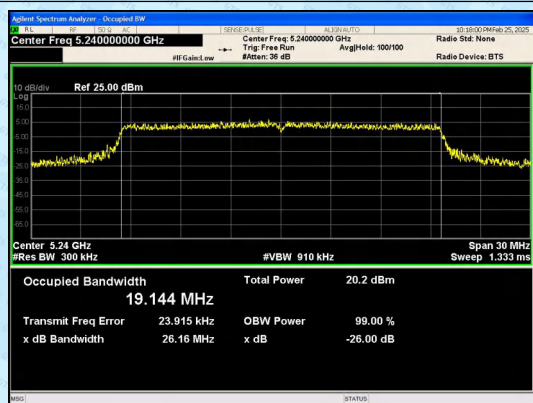
IEEE 802.11ac_Channel 42_80MHz_Antenna 0



IEEE 802.11ax_Channel 36_20MHz_Antenna 0_RU&Index SU

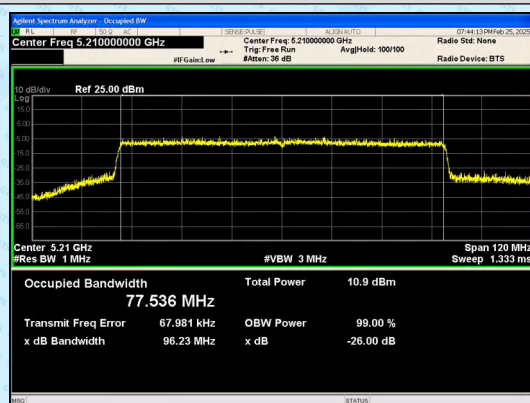
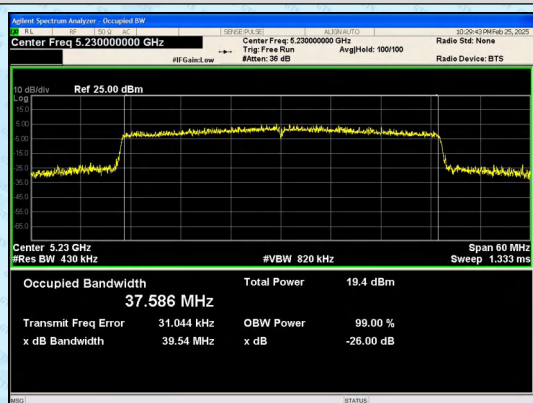


IEEE 802.11ax_Channel 44_20MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 48_20MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 38_40MHz_Antenna 0_RU&Index SU



IEEE 802.11ax_Channel 46_40MHz_Antenna 0_RU&Index SU

IEEE 802.11ax_Channel 42_80MHz_Antenna 0_RU&Index SU

Duty Cycle

Test Result for Ant0

Mode	Data rates	Channel	RU & Index	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	36	N/A	0	10.000	10.000	100	1	0.0	0.1000
		44			10.000	10.000	100	1	0.0	0.1000
		48			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11n_20	36	10.000			10.000	100	1	0.0	0.1000	
	44	10.000			10.000	100	1	0.0	0.1000	
	48	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11n_40	38	10.000			10.000	100	1	0.0	0.1000	
	46	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11ac_20	MCS 0	36			10.000	10.000	100	1	0.0	0.1000
		44			10.000	10.000	100	1	0.0	0.1000
		48			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_40		38			10.000	10.000	100	1	0.0	0.1000
		46			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_80		42			10.000	10.000	100	1	0.0	0.1000
		IEEE 802.11ax_20	36	10.000	10.000	100	1	0.0	0.1000	
44			10.000	10.000	100	1	0.0	0.1000		
48			10.000	10.000	100	1	0.0	0.1000		
IEEE 802.11ax_40			38	10.000	10.000	100	1	0.0	0.1000	
			46	10.000	10.000	100	1	0.0	0.1000	
IEEE 802.11ax_80	42		10.000	10.000	100	1	0.0	0.1000		
IEEE 802.11a	6	149	N/A	0	10.000	10.000	100	1	0.0	0.1000
		157			10.000	10.000	100	1	0.0	0.1000
		165			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11n_20	149	10.000			10.000	100	1	0.0	0.1000	
	157	10.000			10.000	100	1	0.0	0.1000	
	165	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11n_40	151	10.000			10.000	100	1	0.0	0.1000	
	159	10.000			10.000	100	1	0.0	0.1000	
IEEE 802.11ac_20	MCS 0	149			10.000	10.000	100	1	0.0	0.1000
		157			10.000	10.000	100	1	0.0	0.1000
		165			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_40		151			10.000	10.000	100	1	0.0	0.1000
		159			10.000	10.000	100	1	0.0	0.1000
IEEE 802.11ac_80		155			10.000	10.000	100	1	0.0	0.1000
		IEEE	149	SU	10.000	10.000	100	1	0.0	0.1000