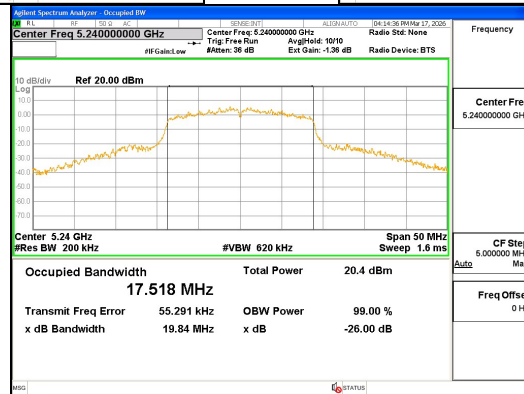
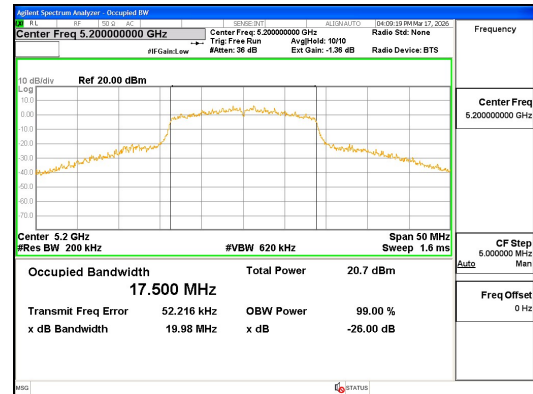
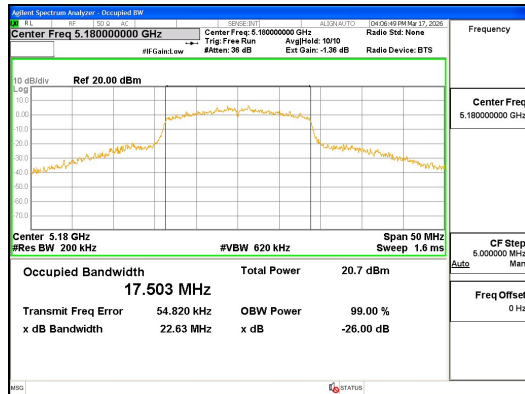




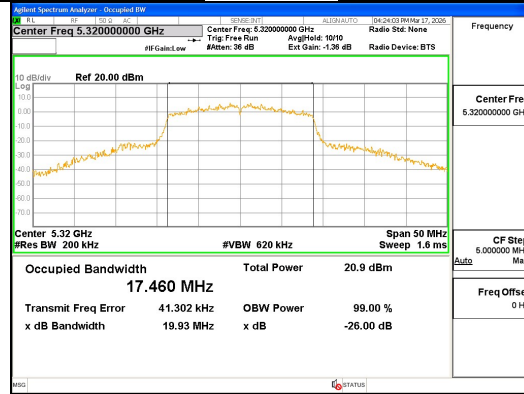
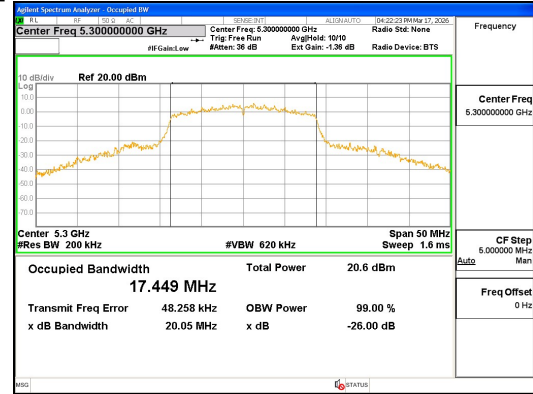
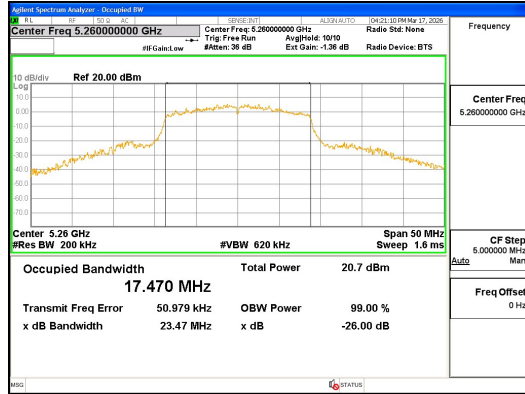
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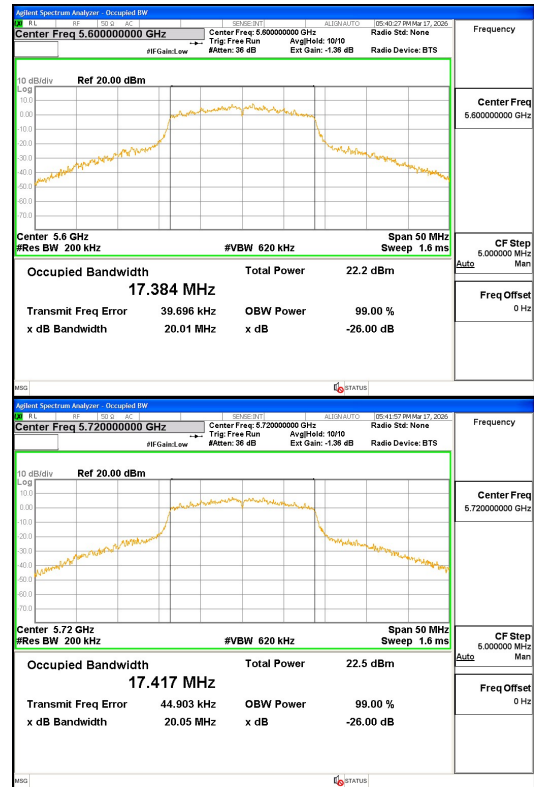
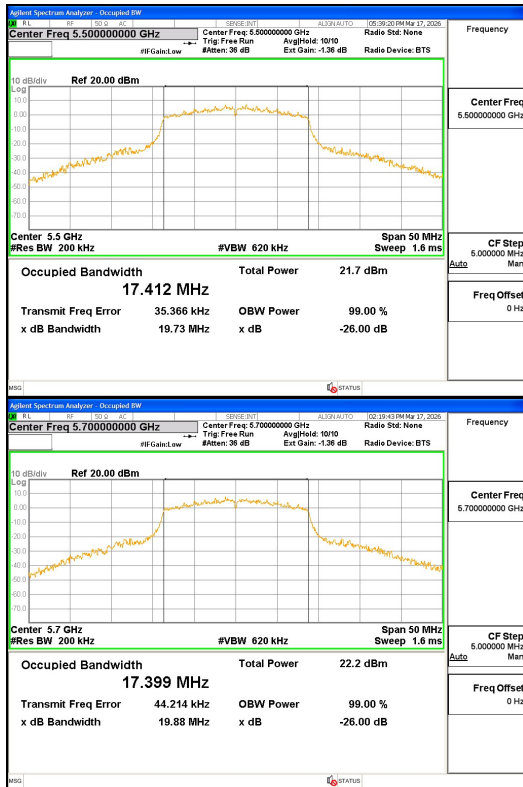
802.11n_HT20_UNII 2A



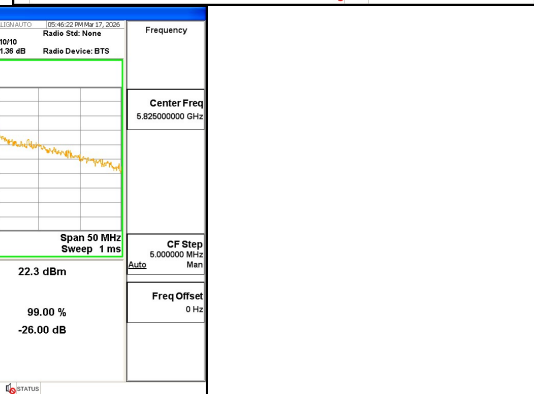
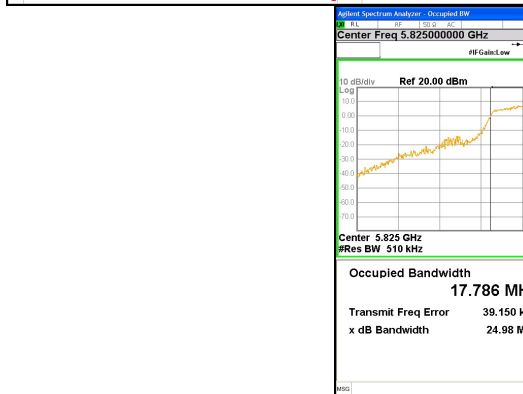
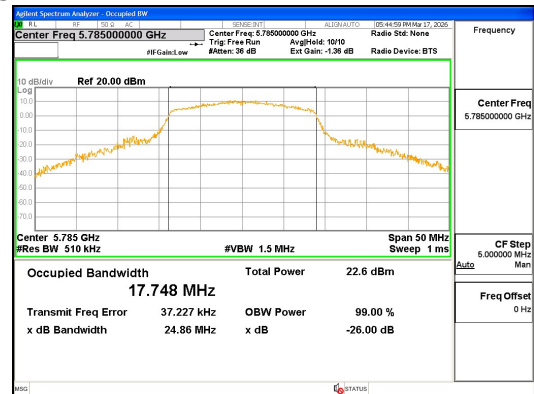
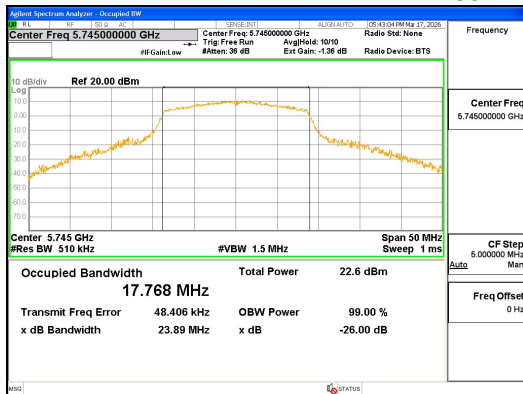
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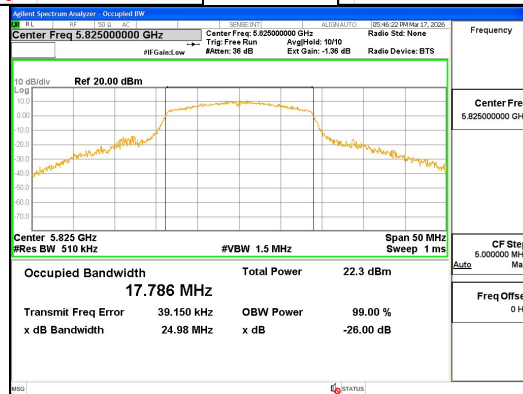
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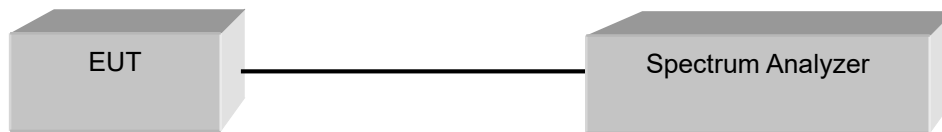
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4.3 Output Power

Test Procedures

KDB 789033 – Section E.2.d (Method SA-1, Maximum Conducted Output Power)
ANSI C63.10-2020 – Section 12.4.2.4

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99 % bandwidth.



Test Settings :

Center frequency = the highest, middle and the lowest channels

a) Span to encompass the entire 99 % OBW of the signal.

b) RBW = 1 MHz

c) VBW $\geq$ 3 MHz

d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.

e) Sweep time = auto

f) Detector = Power averaging (rms)

g) Do not use sweep triggering. Allow the sweep to "free run."

h) Trace average at least 100 traces in power averaging (rms) mode;

i) Compute power by integrating the spectrum across the 99 % OBW of the signal using the instrument's band-power measurement function with band limits set equal to the EBW or OBW band-edges.

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Limit

Operating Mode	Mode	ANT Gain (dBi)	Band	FCC Limit (dBm)	ISED Limit (dBm)
SISO	802.11a/n	4.24	UNII 1	24.00	Note
			UNII 2A	24.00	Note
		2.93	UNII 2C	24.00	Note
			UNII 3	30.00	Note

Note :

Band	Limit (dBm)
UNII 1	the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.
UNII 2A	The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.
UNII 2C	The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

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Test Data**[FCC]**

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	14.89	-	14.89	24.00	9.11
	5 200	15.21	-	15.21	24.00	8.79
	5 240	15.19	-	15.19	24.00	8.81
	5 260	15.41	-	15.41	24.00	8.59
	5 300	15.24	-	15.24	24.00	8.76
	5 320	15.44	-	15.44	24.00	8.56
	5 500	15.72	-	15.72	24.00	8.28
	5 600	16.24	-	16.24	24.00	7.76
	5 700	16.33	-	16.33	24.00	7.67
	5 720	16.65	-	16.65	24.00	7.35
	5 745	16.78	-	16.78	30.00	13.22
	5 785	16.80	-	16.80	30.00	13.20
	5 825	16.73	-	16.73	30.00	13.27
802.11n _HT20	5 180	14.39	-	14.39	24.00	9.61
	5 200	14.61	-	14.61	24.00	9.39
	5 240	14.28	-	14.28	24.00	9.72
	5 260	14.69	-	14.69	24.00	9.31
	5 300	14.53	-	14.53	24.00	9.47
	5 320	14.90	-	14.90	24.00	9.10
	5 500	15.43	-	15.43	24.00	8.57
	5 600	15.95	-	15.95	24.00	8.05
	5 700	15.83	-	15.83	24.00	8.17
	5 720	16.46	-	16.46	24.00	7.54
	5 745	16.74	-	16.74	30.00	13.26
	5 785	16.60	-	16.60	30.00	13.40
	5 825	16.57	-	16.57	30.00	13.43

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[ISED]

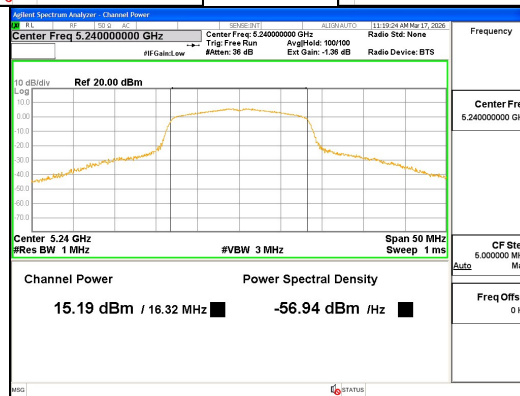
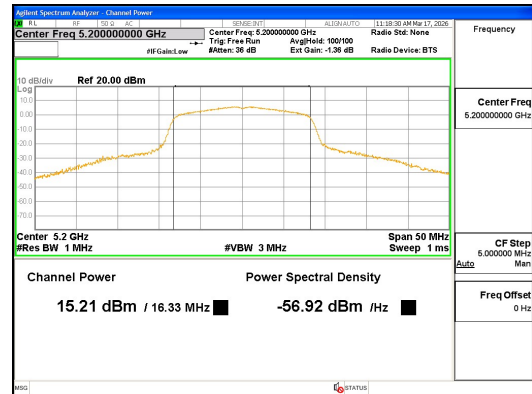
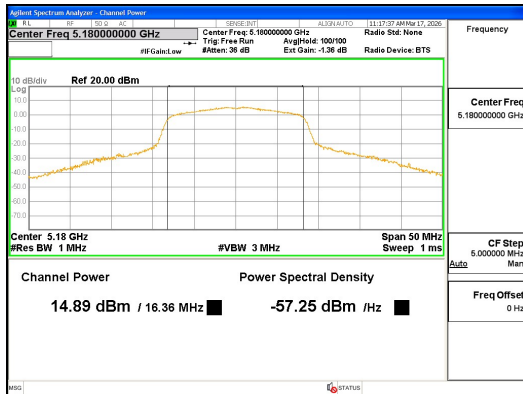
Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result (dBm)		Limit (dBm)		Margin (dB)	
				Conducted Output Power	EIRP	Conducted Output Power	EIRP	Conducted Output Power	EIRP
802.11a	5 180	14.89	-	14.89	19.13	-	22.14	-	3.01
	5 200	15.21	-	15.21	19.45	-	22.13	-	2.68
	5 240	15.19	-	15.19	19.43	-	22.13	-	2.70
	5 260	15.41	-	15.41	19.65	23.12	29.12	7.71	9.47
	5 300	15.24	-	15.24	19.48	23.12	29.12	7.88	9.64
	5 320	15.44	-	15.44	19.68	23.12	29.12	7.68	9.44
	5 500	15.72	-	15.72	18.65	23.11	29.11	7.39	10.46
	5 600	16.24	-	16.24	19.17	23.11	29.11	6.87	9.94
	5 700	16.33	-	16.33	19.26	23.11	29.11	6.78	9.85
	5 720	16.65	-	16.65	19.58	23.12	29.12	6.47	9.54
	5 745	16.78	-	16.78	-	30.00	-	13.22	-
	5 785	16.80	-	16.80	-	30.00	-	13.20	-
	5 825	16.73	-	16.73	-	30.00	-	13.27	-
802.11n _HT20	5 180	14.39	-	14.39	18.63	-	22.43	-	3.80
	5 200	14.61	-	14.61	18.85	-	22.43	-	3.58
	5 240	14.28	-	14.28	18.52	-	22.44	-	3.92
	5 260	14.69	-	14.69	18.93	23.42	29.42	8.73	10.49
	5 300	14.53	-	14.53	18.77	23.42	29.42	8.89	10.65
	5 320	14.90	-	14.90	19.14	23.42	29.42	8.52	10.28
	5 500	15.43	-	15.43	18.36	23.41	29.41	7.98	11.05
	5 600	15.95	-	15.95	18.88	23.40	29.40	7.45	10.52
	5 700	15.83	-	15.83	18.76	23.41	29.41	7.58	10.65
	5 720	16.46	-	16.46	19.39	23.41	29.41	6.95	10.02
	5 745	16.74	-	16.74	-	30.00	-	13.26	-
	5 785	16.60	-	16.60	-	30.00	-	13.40	-
	5 825	16.57	-	16.57	-	30.00	-	13.43	-

See next pages for actual measured spectrum plots.

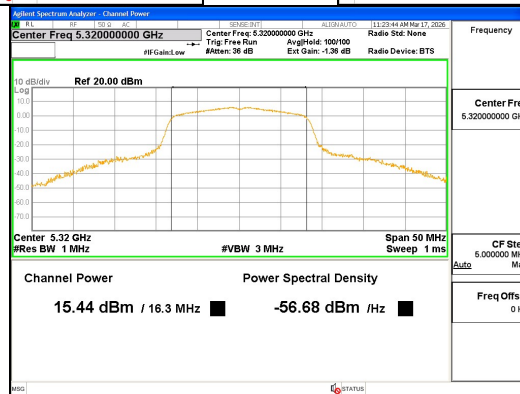
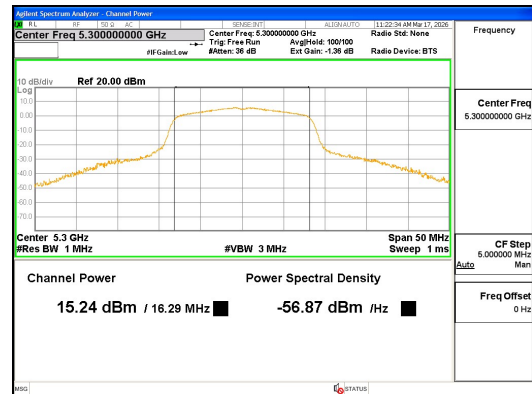
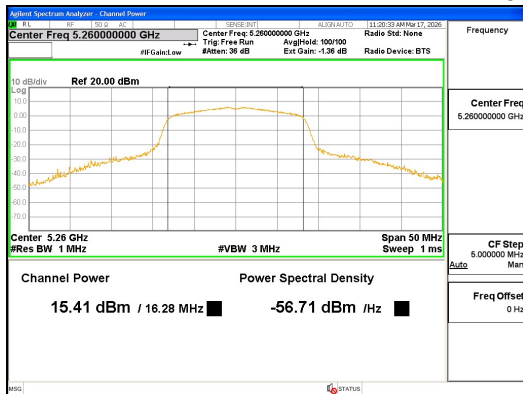


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