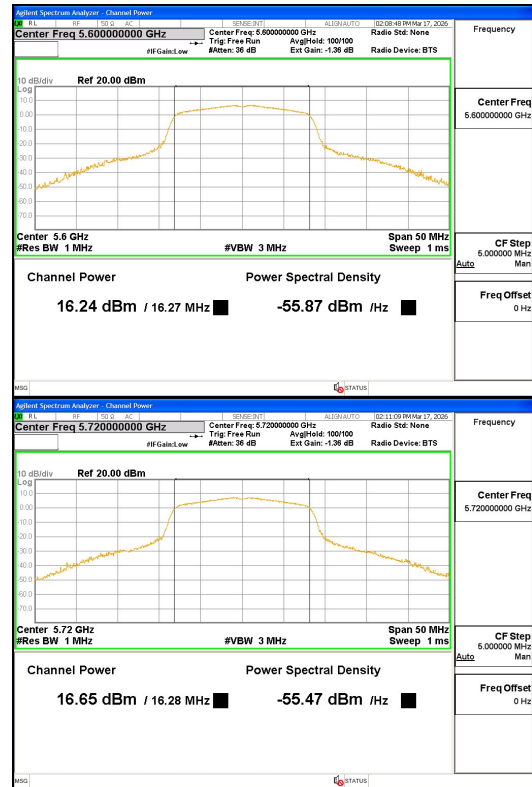
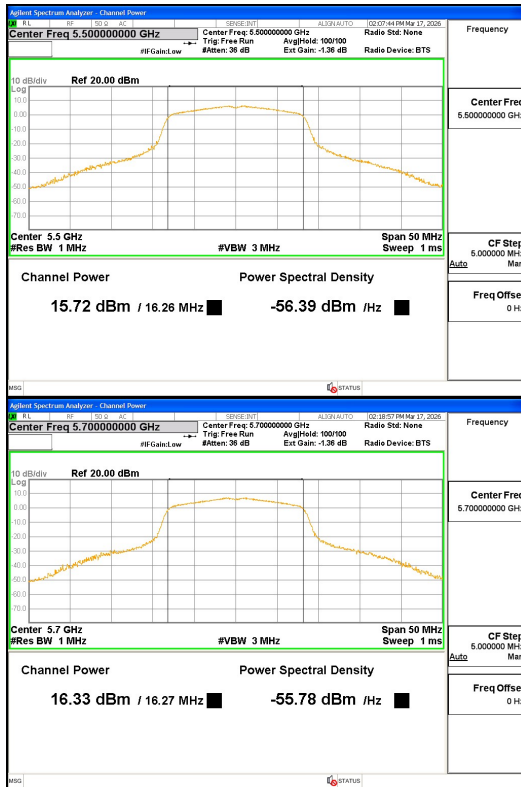




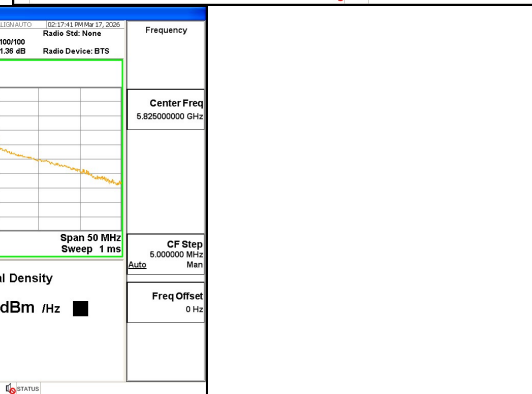
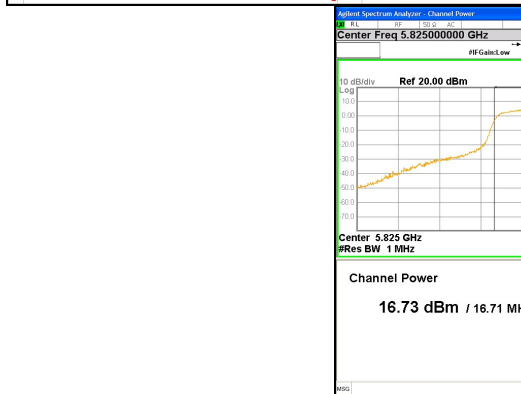
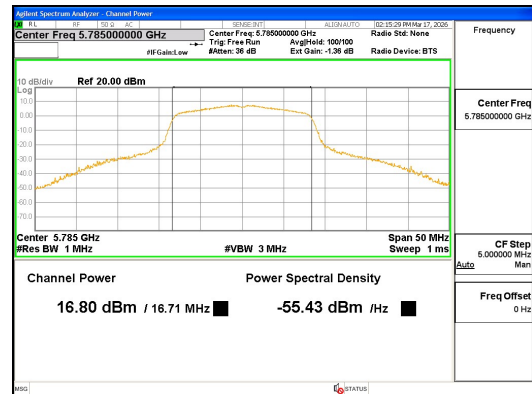
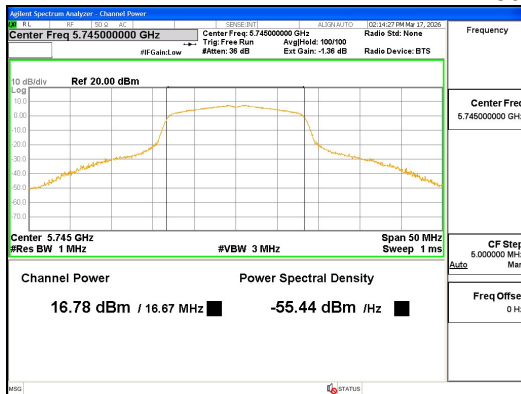
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802.11a_UNII 2C



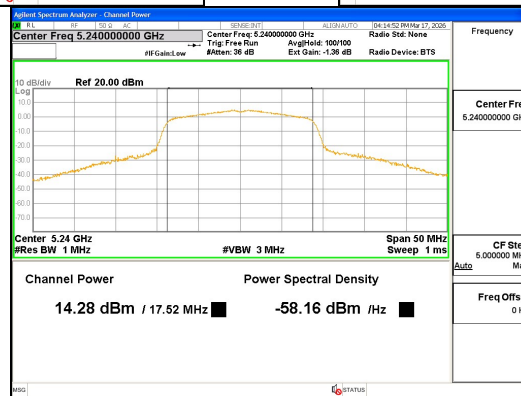
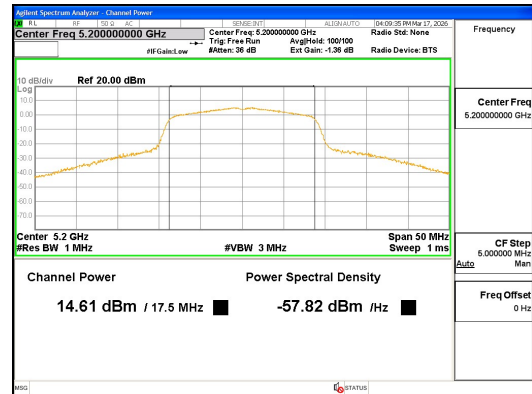
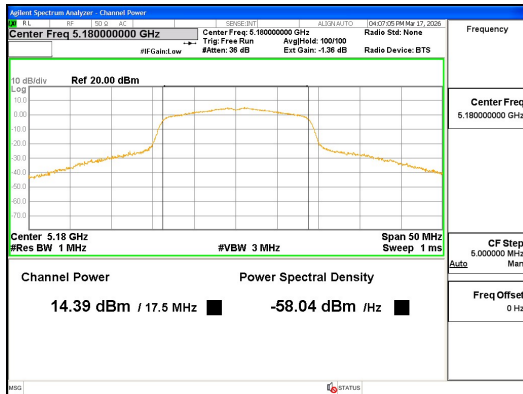
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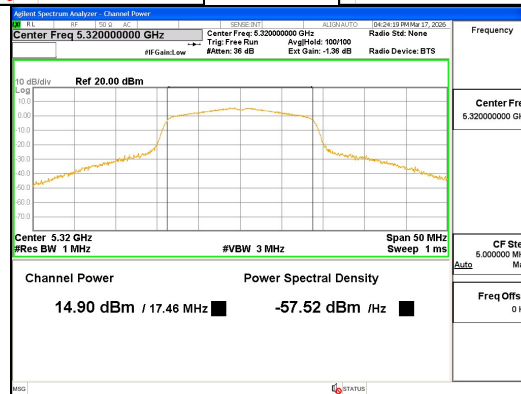
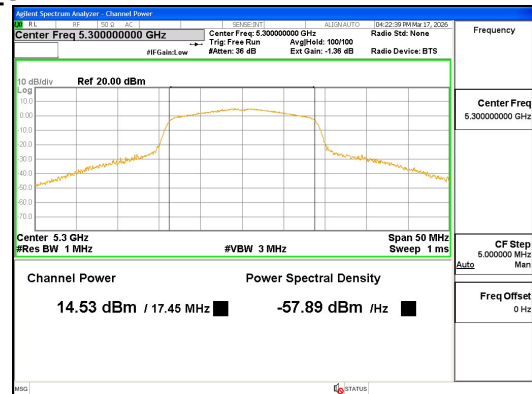
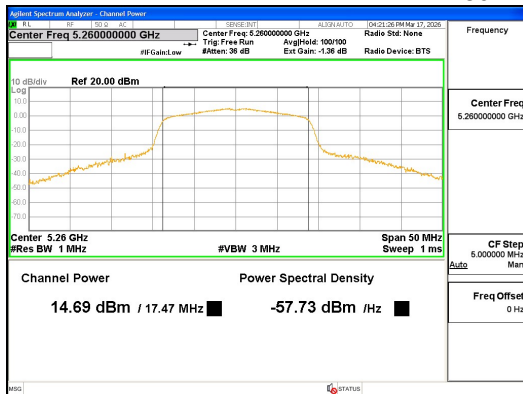
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802.11n_HT20_UNII 1



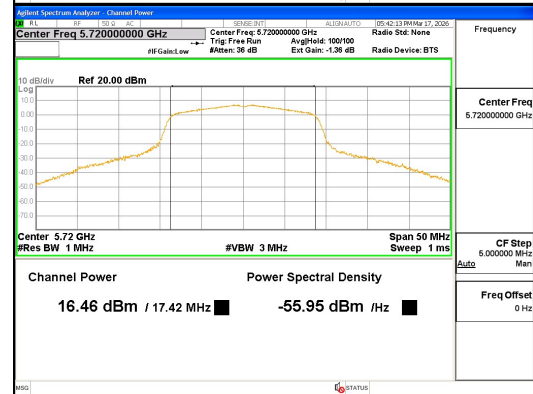
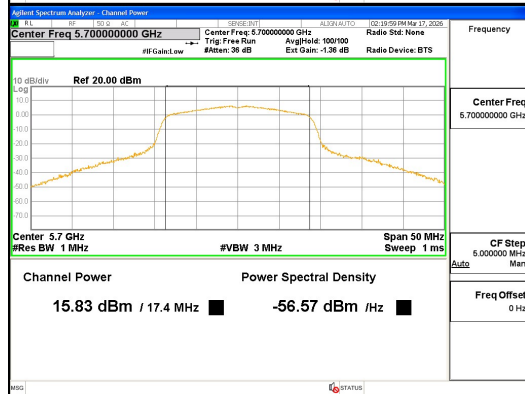
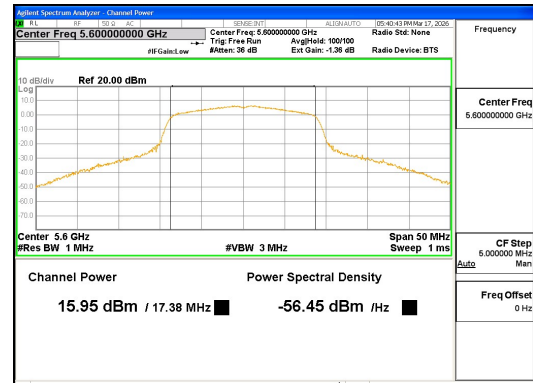
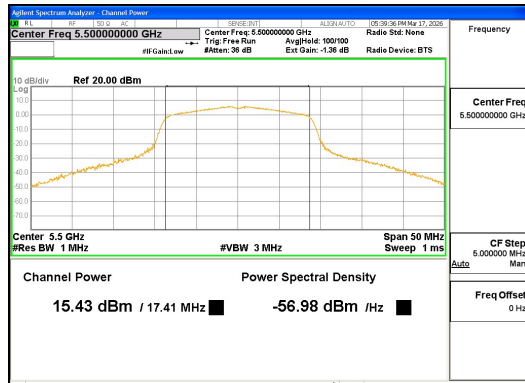
802.11n_HT20_UNII 2A



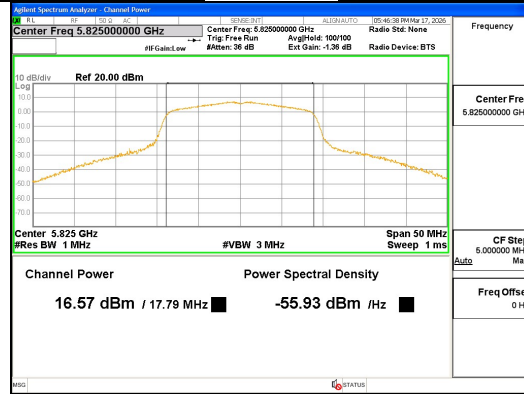
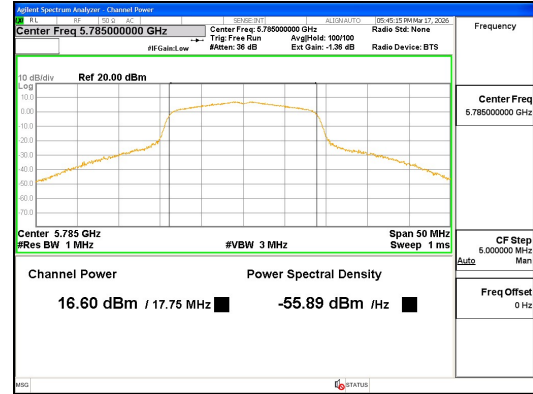
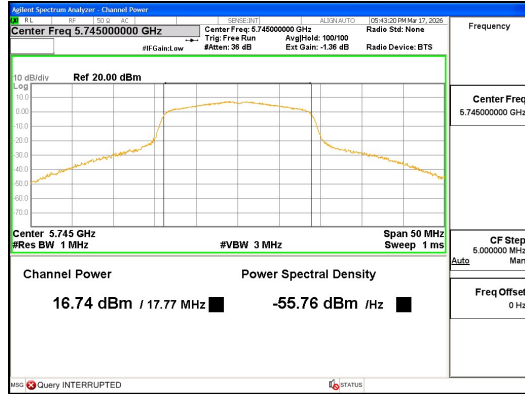
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4.4 Power Spectral Density

Test Procedures

KDB 789033 – Section F (Method SA-1, Maximum Power Spectral Density)
ANSI C63.10-2020 – Section 12.6

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Test Settings:

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz, 500 kHz (UNII 3)
- b) VBW = 3 MHz, 1.5 MHz (UNII 3)
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100

Limit

Operating Mode	Mode	ANT Gain (dBi)	Band	FCC Limit (dBm)	ISED Limit (dBm)
SISO	802.11a/n	4.24	UNII 1	11.00	10.00 (EIRP)
			UNII 2A	11.00	11.00
		2.93	UNII 2C	11.00	11.00
			UNII 3	30.00	30.00

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Test Data**[FCC]**

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	4.66	-	4.66	11.00	6.34
	5 200	4.83	-	4.83	11.00	6.17
	5 240	5.51	-	5.51	11.00	5.49
	5 260	5.96	-	5.96	11.00	5.04
	5 300	5.87	-	5.87	11.00	5.13
	5 320	6.14	-	6.14	11.00	4.86
	5 500	6.60	-	6.60	11.00	4.40
	5 600	7.00	-	7.00	11.00	4.00
	5 700	7.06	-	7.06	11.00	3.94
	5 720	7.18	-	7.18	11.00	3.82
	5 745	4.79	-	4.79	30.00	25.21
	5 785	4.77	-	4.77	30.00	25.23
	5 825	4.59	-	4.59	30.00	25.41
802.11n _HT20	5 180	5.07	-	5.07	11.00	5.93
	5 200	4.93	-	4.93	11.00	6.07
	5 240	4.84	-	4.84	11.00	6.16
	5 260	5.11	-	5.11	11.00	5.89
	5 300	4.99	-	4.99	11.00	6.01
	5 320	5.24	-	5.24	11.00	5.76
	5 500	6.02	-	6.02	11.00	4.98
	5 600	6.78	-	6.78	11.00	4.22
	5 700	6.25	-	6.25	11.00	4.75
	5 720	6.86	-	6.86	11.00	4.14
	5 745	4.37	-	4.37	30.00	25.63
	5 785	4.60	-	4.60	30.00	25.40
	5 825	4.29	-	4.29	30.00	25.71

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[ISED]

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	4.66	-	8.90	10.00	1.10
	5 200	4.83	-	9.07	10.00	0.93
	5 240	5.51	-	9.75	10.00	0.25
	5 260	5.96	-	5.96	11.00	5.04
	5 300	5.87	-	5.87	11.00	5.13
	5 320	6.14	-	6.14	11.00	4.86
	5 500	6.60	-	6.60	11.00	4.40
	5 600	7.00	-	7.00	11.00	4.00
	5 700	7.06	-	7.06	11.00	3.94
	5 720	7.18	-	7.18	11.00	3.82
	5 745	4.79	-	4.79	30.00	25.21
	5 785	4.77	-	4.77	30.00	25.23
	5 825	4.59	-	4.59	30.00	25.41
802.11n _HT20	5 180	5.07	-	9.31	10.00	0.69
	5 200	4.93	-	9.17	10.00	0.83
	5 240	4.84	-	9.08	10.00	0.92
	5 260	5.11	-	5.11	11.00	5.89
	5 300	4.99	-	4.99	11.00	6.01
	5 320	5.24	-	5.24	11.00	5.76
	5 500	6.02	-	6.02	11.00	4.98
	5 600	6.78	-	6.78	11.00	4.22
	5 700	6.25	-	6.25	11.00	4.75
	5 720	6.86	-	6.86	11.00	4.14
	5 745	4.37	-	4.37	30.00	25.63
	5 785	4.60	-	4.60	30.00	25.40
	5 825	4.29	-	4.29	30.00	25.71

* Note :

UNII 1 Result Power Density = Measured Power Density + Duty cycle Factor + Antenna gain

See next pages for actual measured spectrum plots.