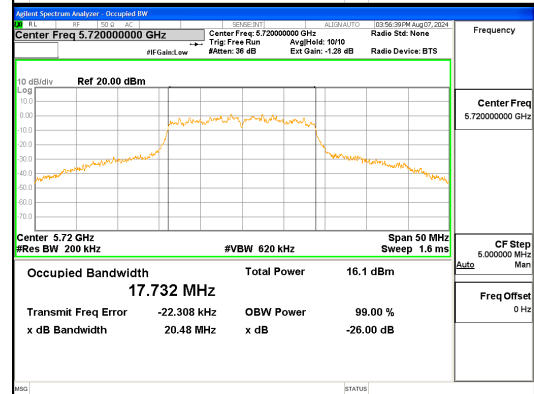
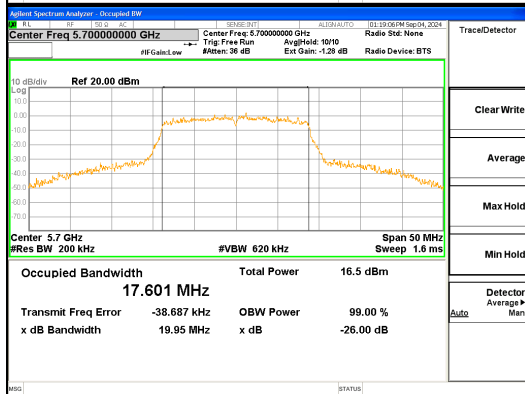
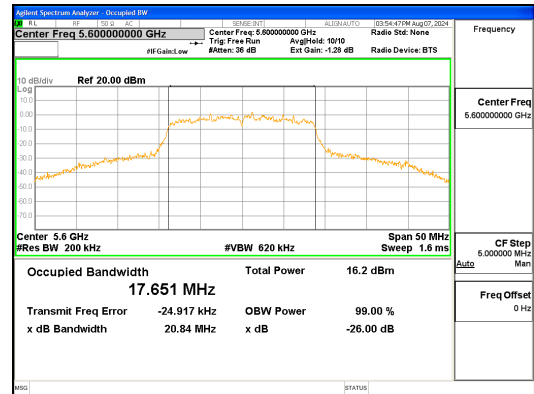
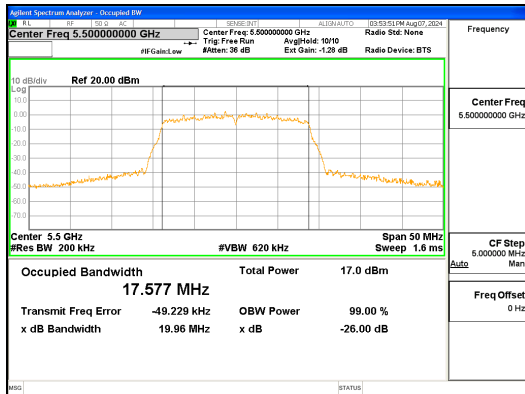


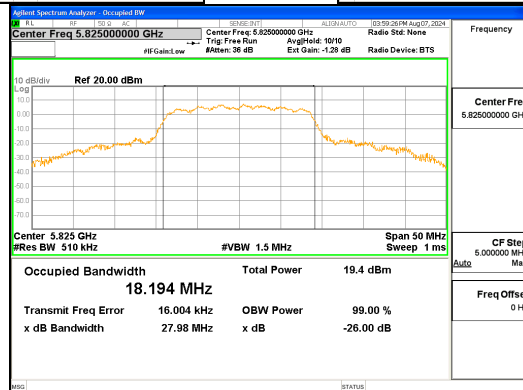
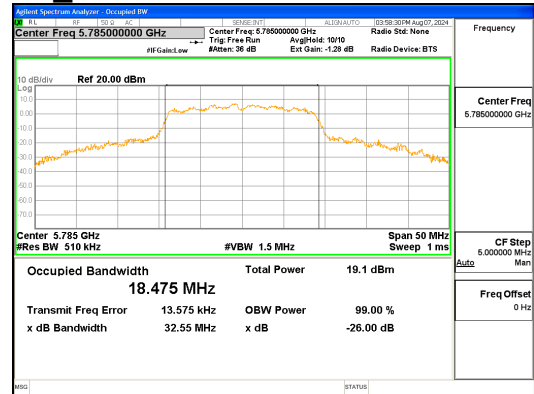
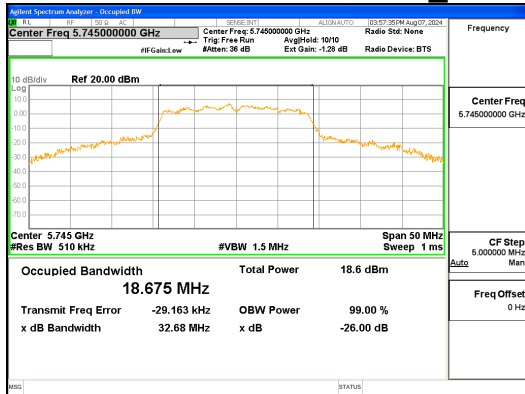


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ANT1_802.11ac_VHT20_UNII 2C

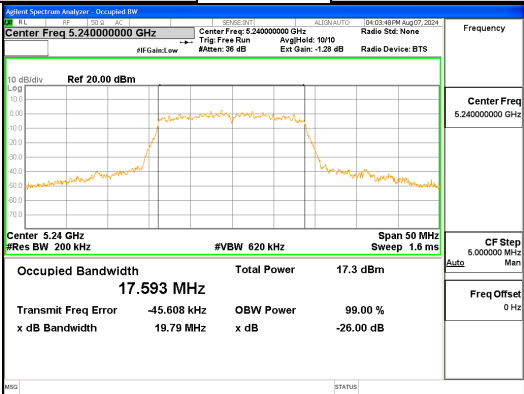
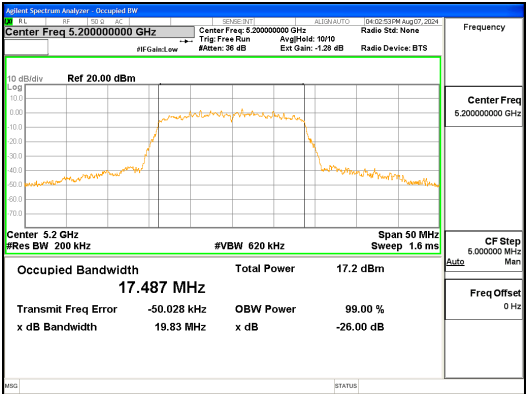
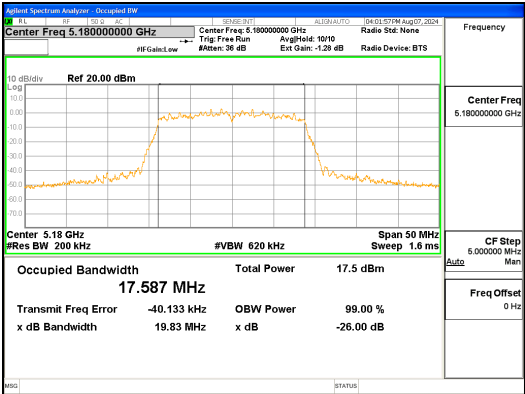


ANT1_802.11ac_VHT20_UNII 3

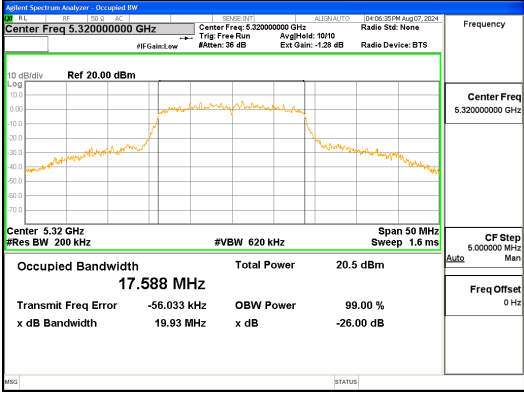
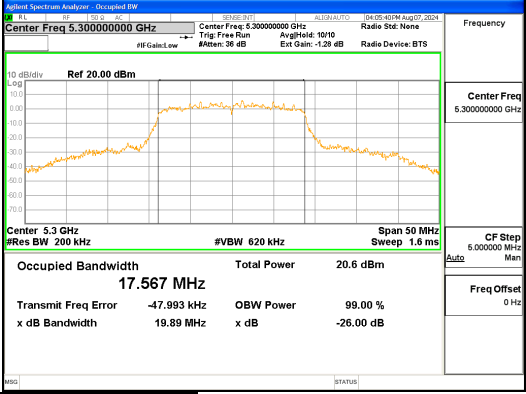
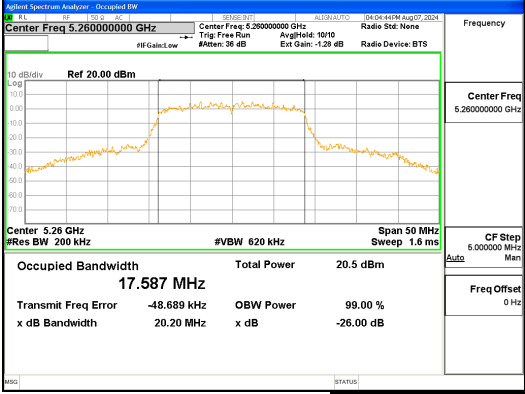


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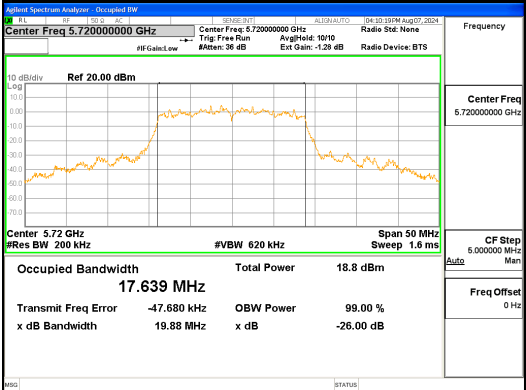
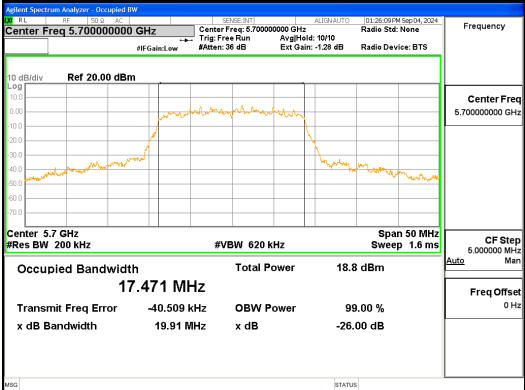
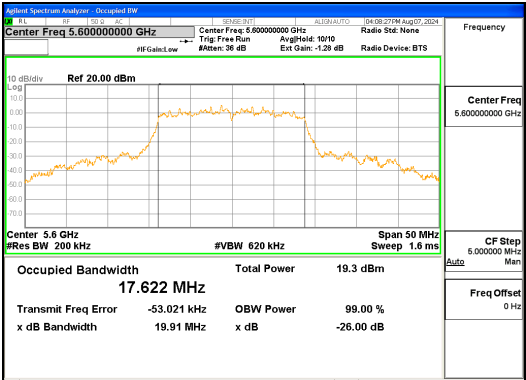
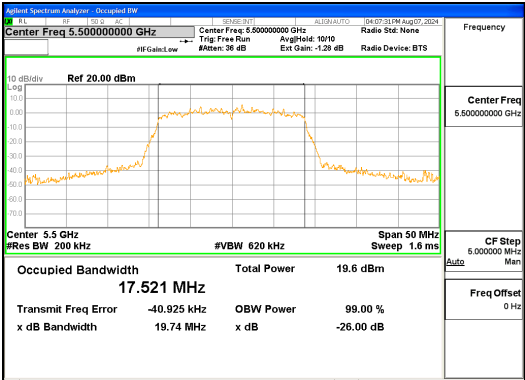


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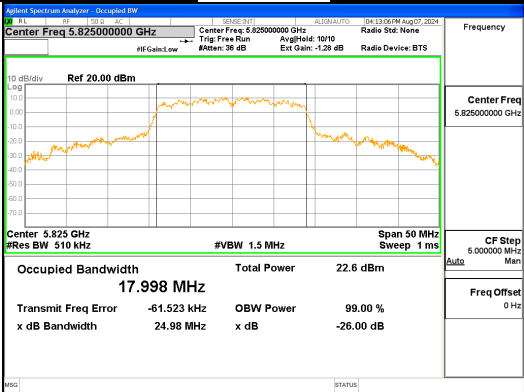
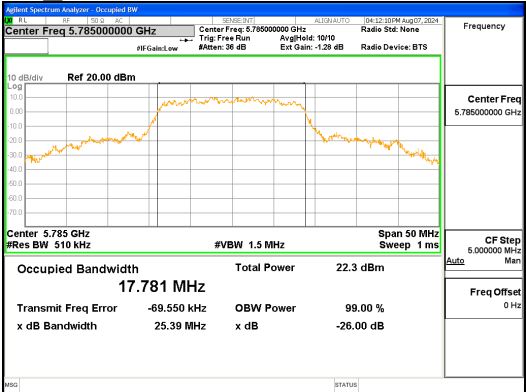
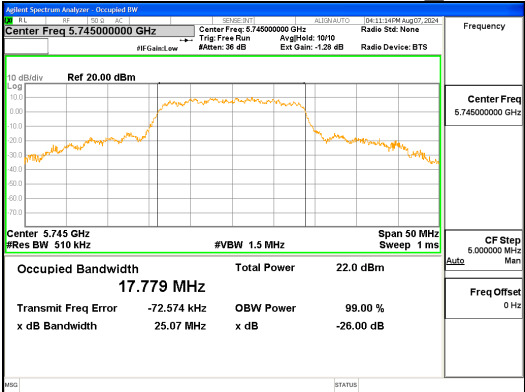


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ANT2_802.11ac_VHT20_UNII 2C

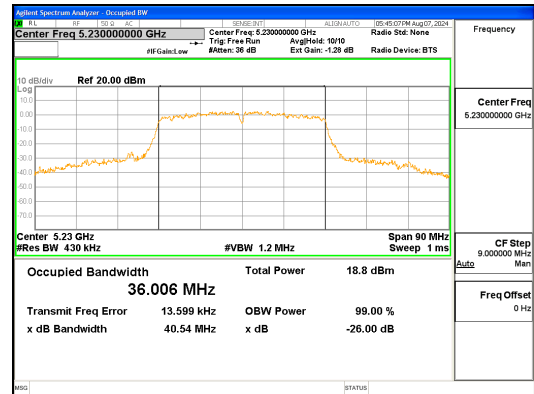
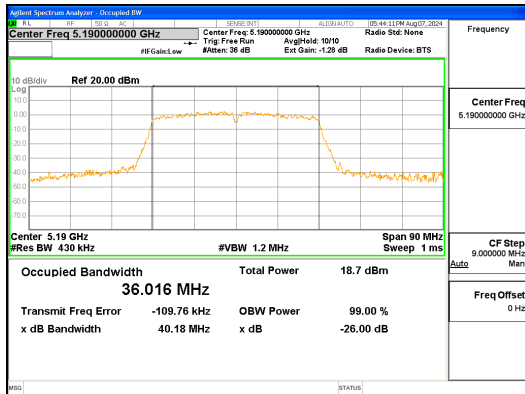


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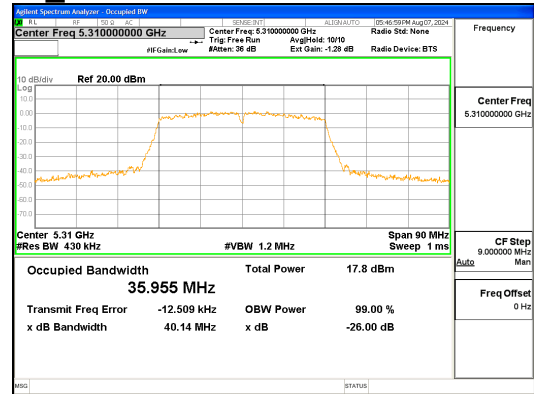
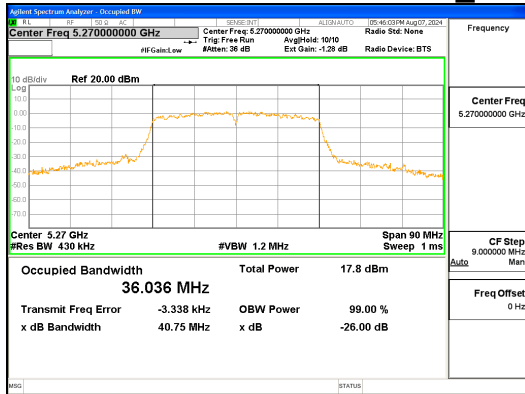


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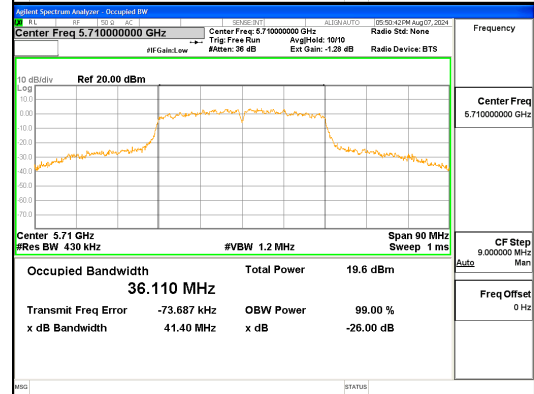
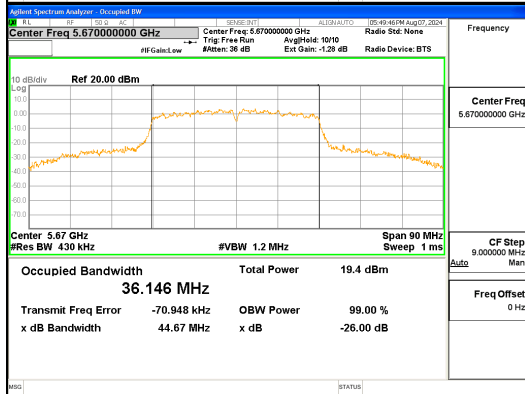
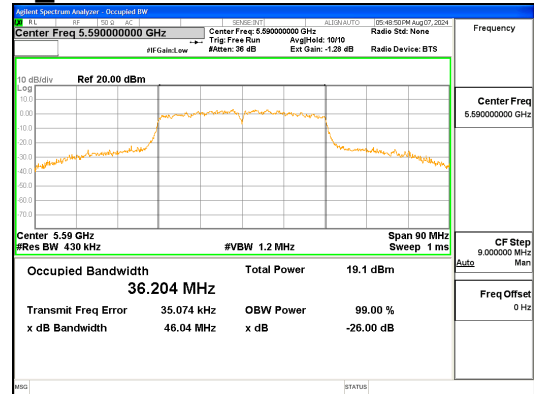
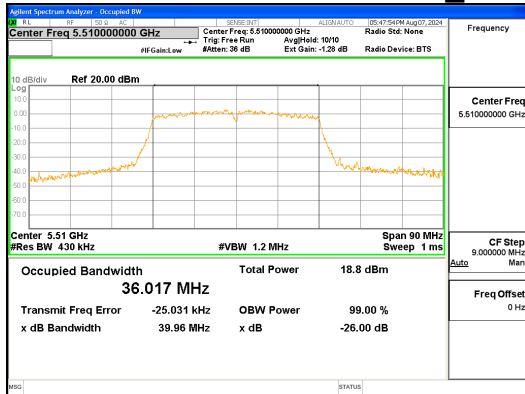
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ANT1_802.11n_HT40_UNII 2A

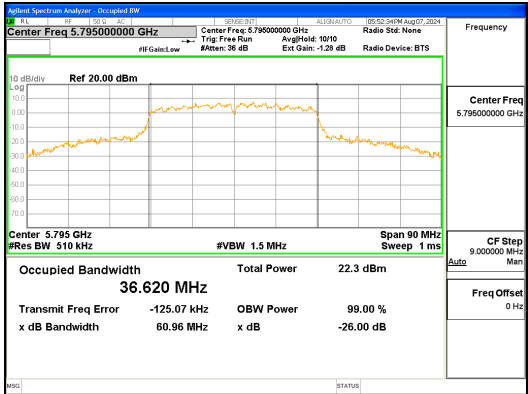
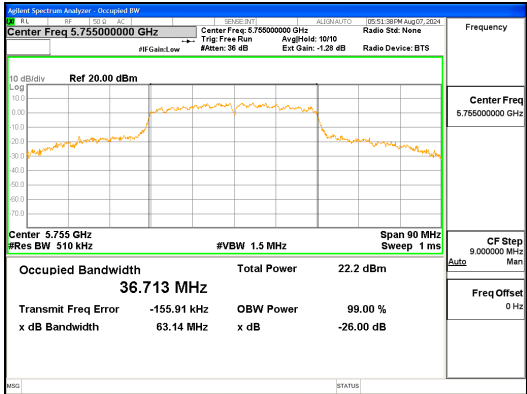


ANT1_802.11n_HT40_UNII 2C



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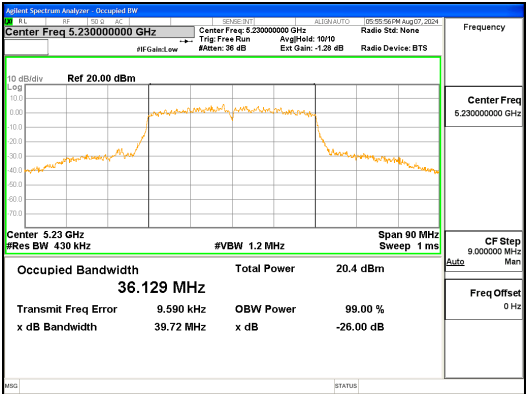
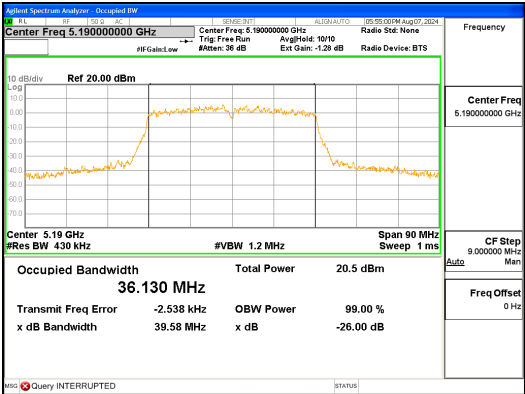


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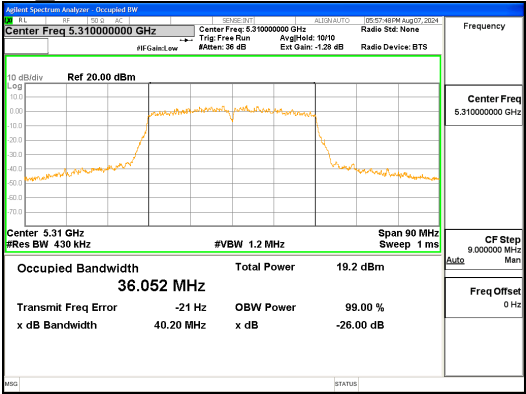
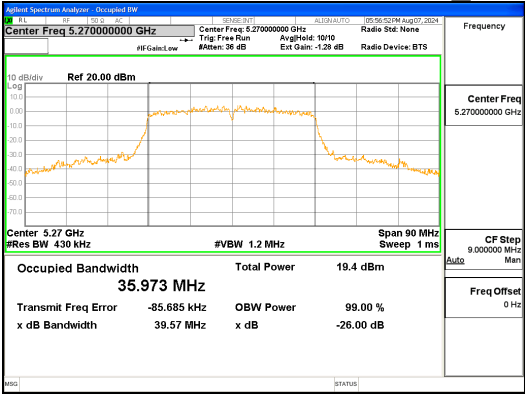


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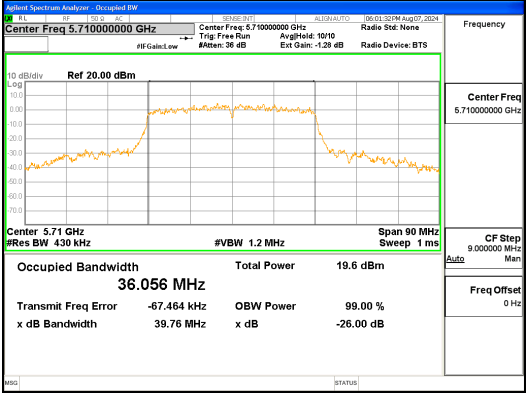
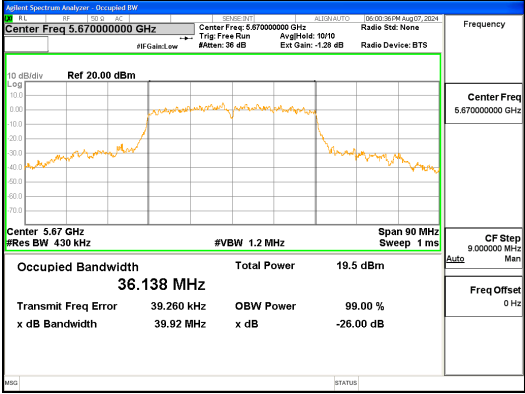
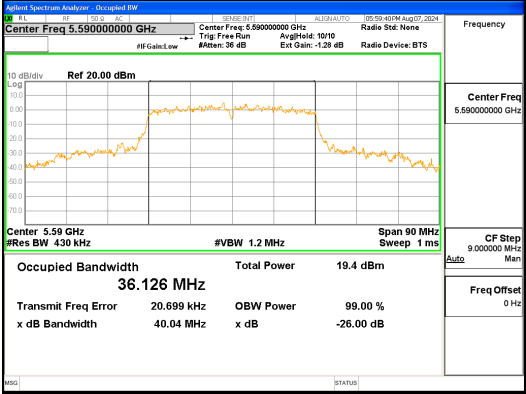
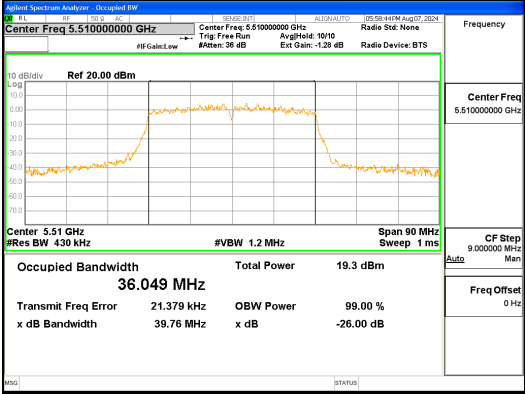
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ANT2_802.11n_HT40_UNII 1



ANT2_802.11n_HT40_UNII 2A

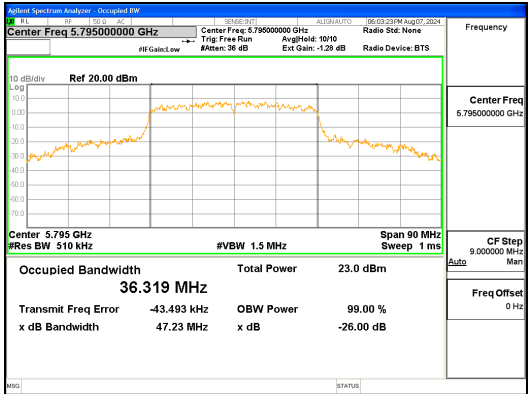
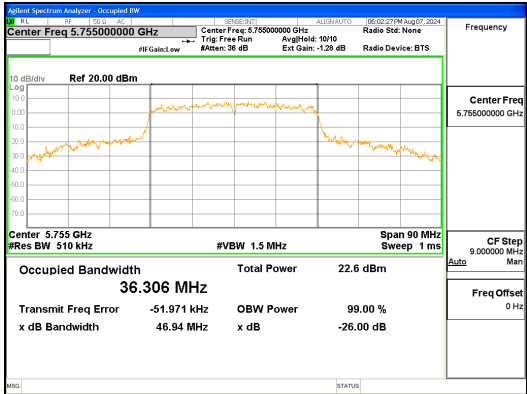


ANT2_802.11n_HT40_UNII 2C



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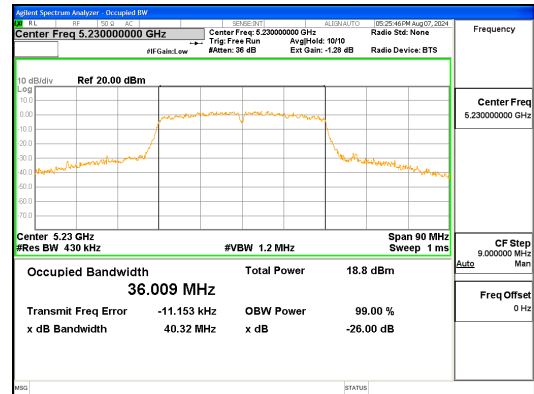
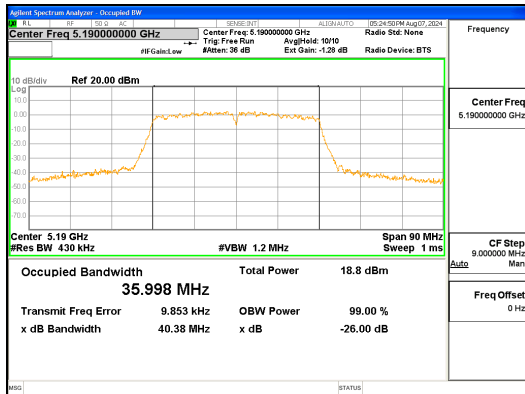


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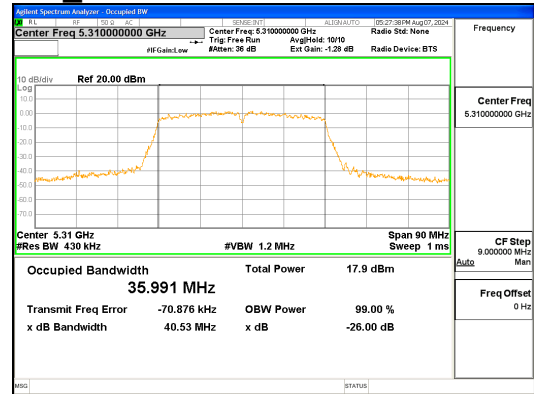
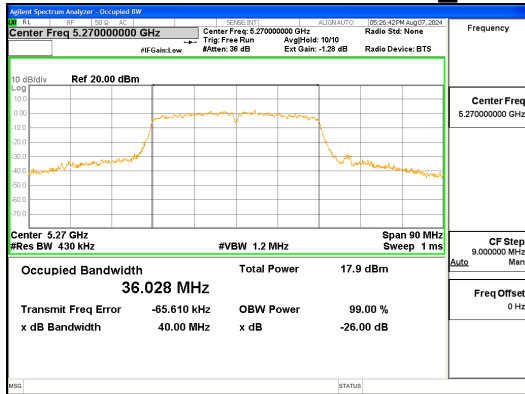


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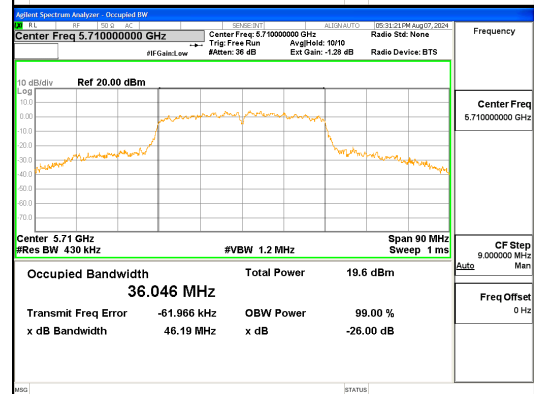
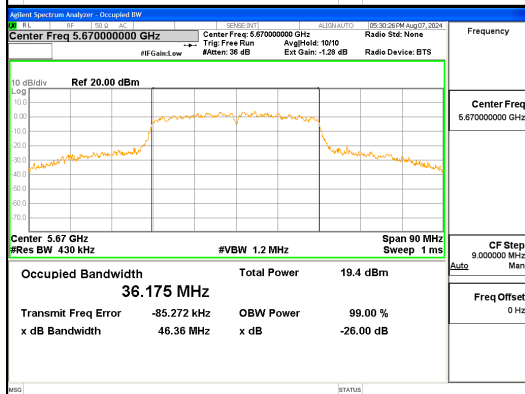
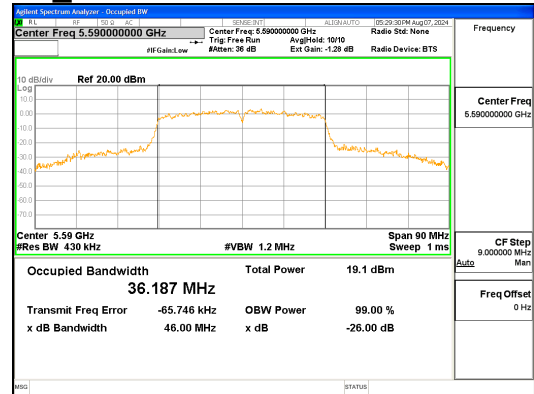
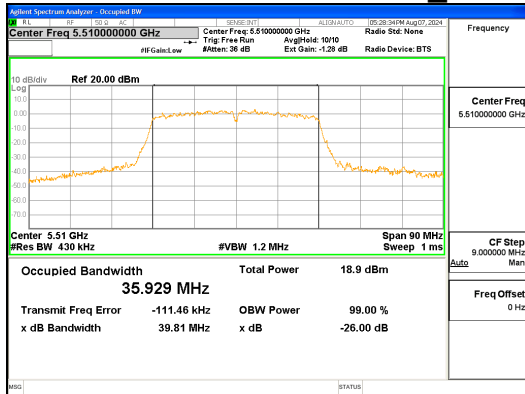
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ANT1_802.11ac_VHT40_UNII 1



ANT1_802.11ac_VHT40_UNII 2A

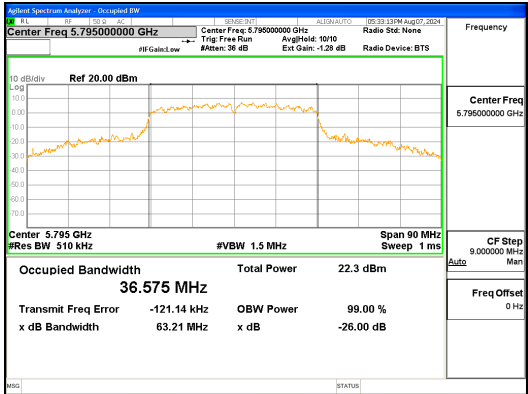
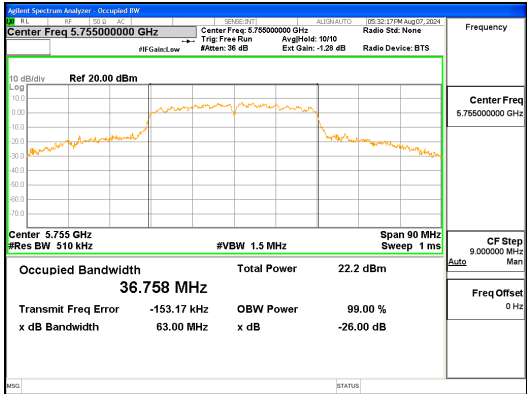


ANT1_802.11ac_VHT40_UNII 2C



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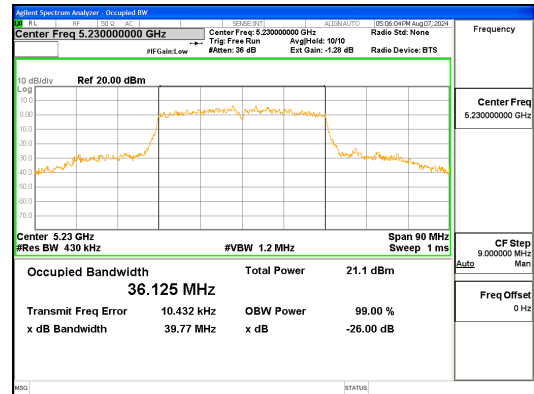
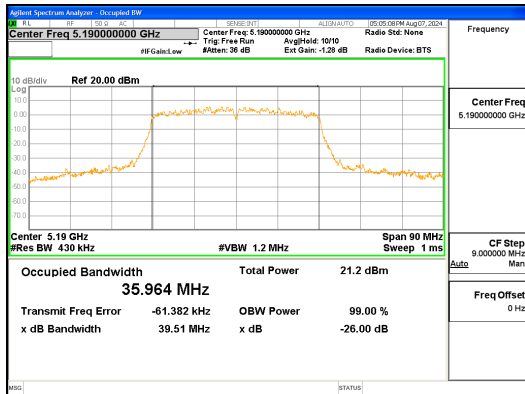


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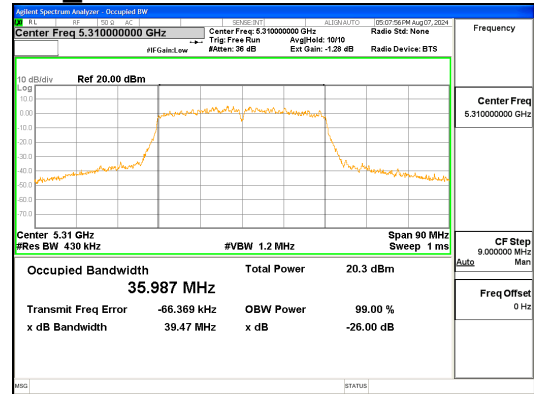
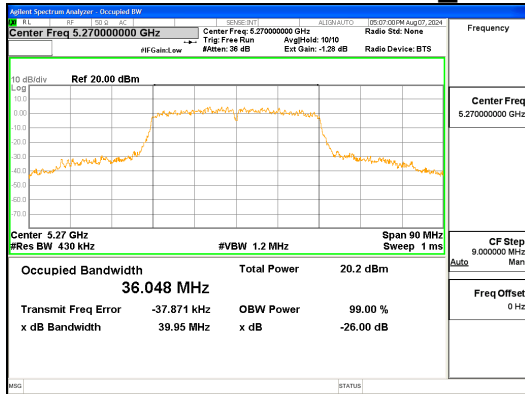


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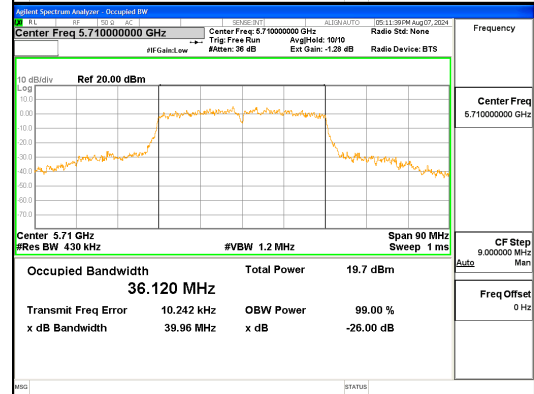
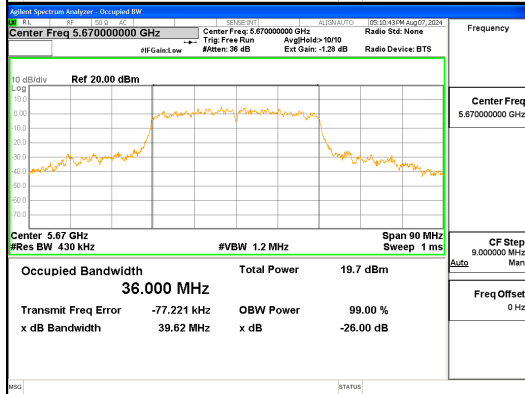
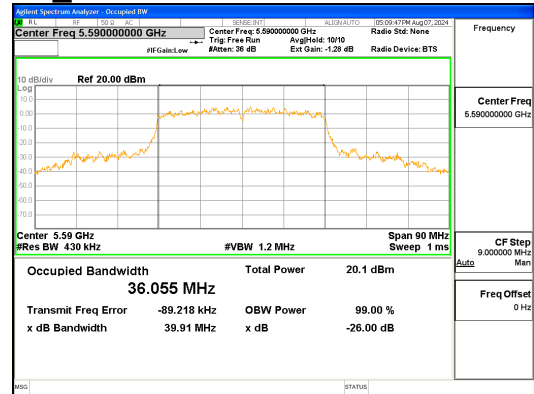
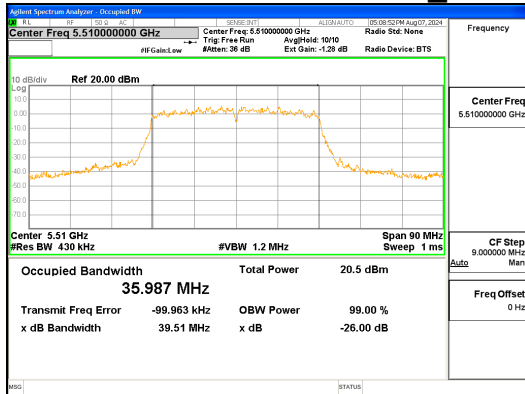
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ANT2_802.11ac_VHT40_UNII 1



ANT2_802.11ac_VHT40_UNII 2A

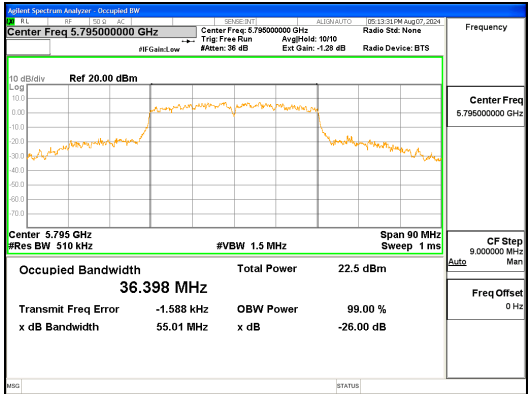
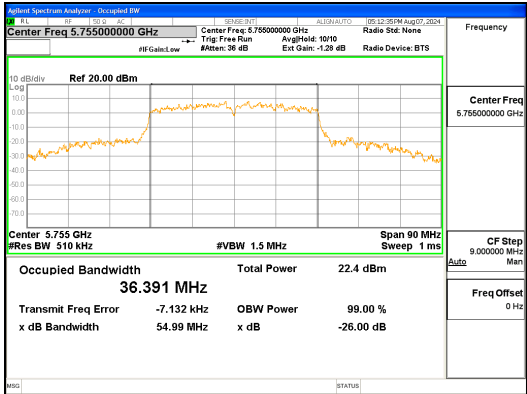


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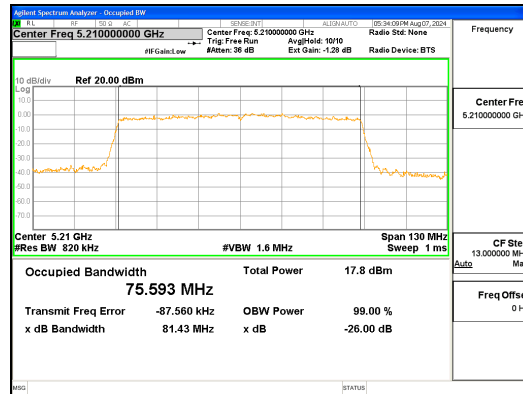


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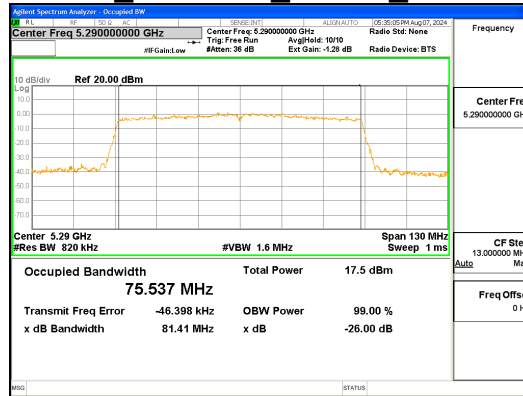
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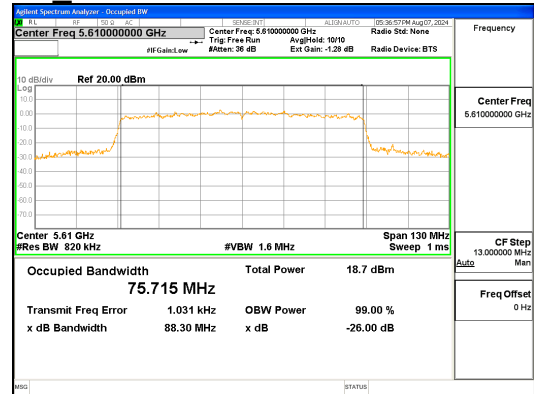
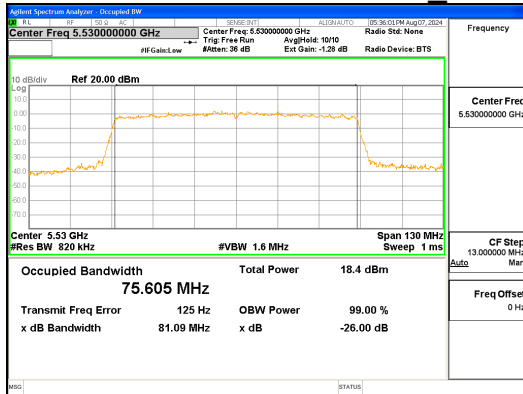
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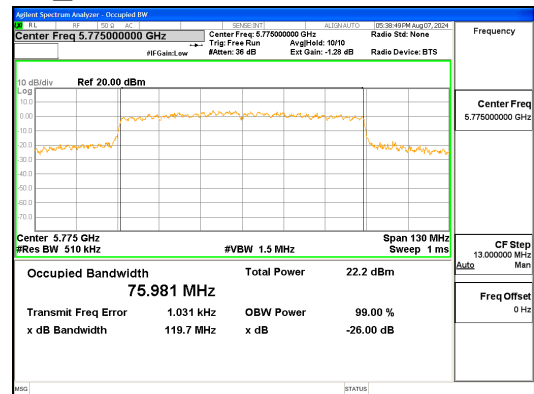
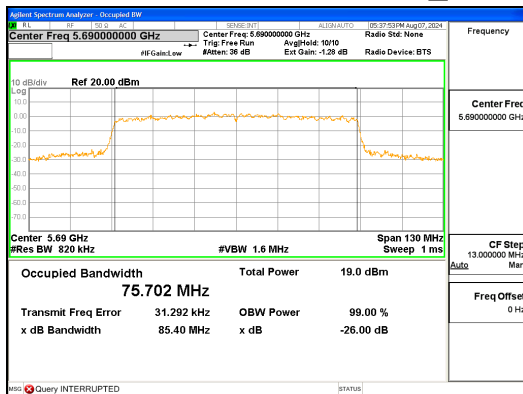
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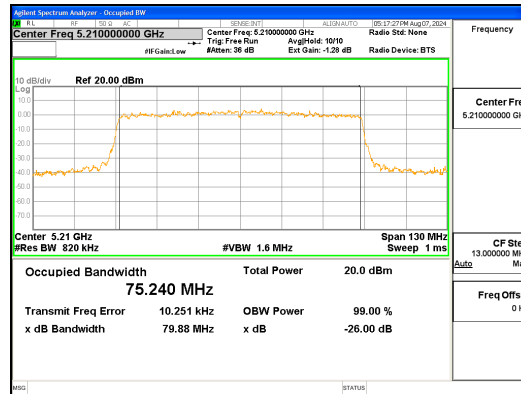


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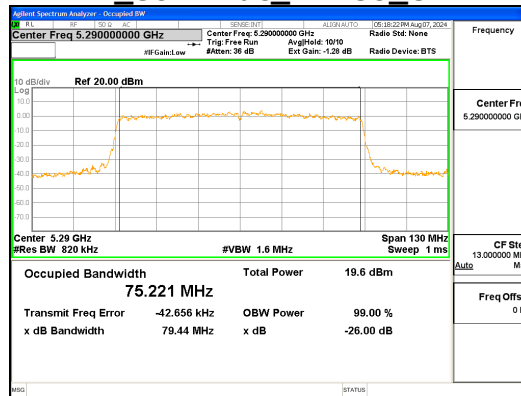


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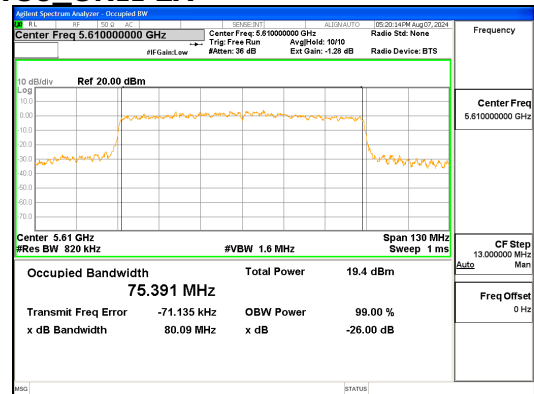
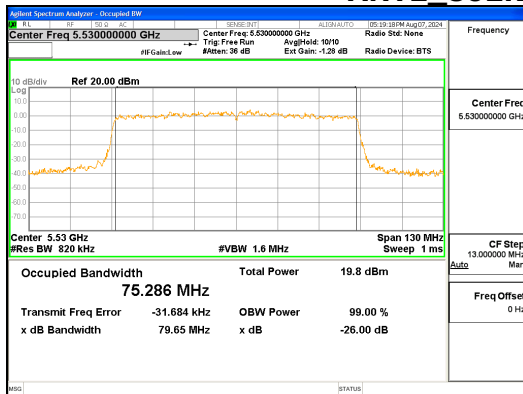
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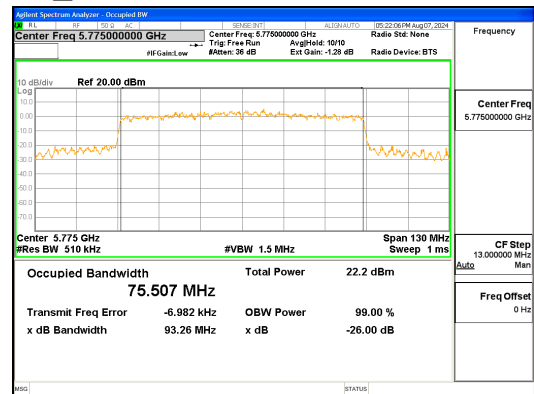
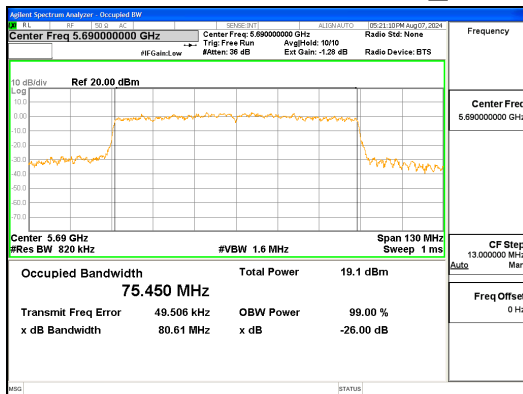
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ANT2_802.11ac_VHT80_UNII 2C



ANT2_802.11ac_VHT80_UNII 2C

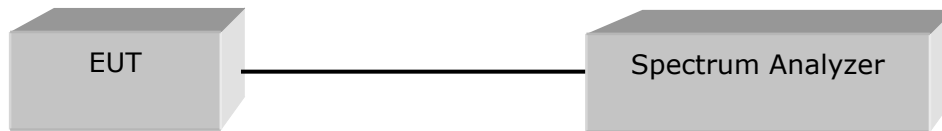
ANT2_802.11ac_VHT80_UNII 3

4.3 OUTPUT POWER

Test Procedures

KDB 789033 – Section E.2.d (Method SA-2, Maximum Conducted Output Power)
KDB 662911 D01, D02 (Multiple Transmitter Output)
ANSI C63.10-2013 – Section 12.3.2.4

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) RBW = 1 MHz
- b) VBW $\geq 3 \times$ RBW
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100
- f) Duty cycle factor = $10\log(1/x)$

Test mode	Duty Cycle Factor
802.11a	0.15 dB
802.11n_HT20	0.17 dB
802.11n_HT40	0.32 dB
802.11ac_VHT20	0.16 dB
802.11ac_VHT40	0.32 dB
802.11ac_VHT80	0.61 dB

Limit

Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm)
SISO	ANT1, ANT2	3.51	802.11a/n/ac	UNII 1	24.00
				UNII 2A	24.00
				UNII 2C	24.00
				UNII 3	30.00
MIMO (2Tx)	ANT1 + ANT2	6.52	802.11n/ac	UNII 1	23.48
				UNII 2A	23.48
				UNII 2C	23.48
				UNII 3	29.48

Test Data

ANT1

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	13.84	0.15	13.99	24.00	10.01
	5 200	13.04	0.15	13.19	24.00	10.81
	5 240	13.36	0.15	13.51	24.00	10.49
	5 260	14.80	0.15	14.95	24.00	9.05
	5 300	14.94	0.15	15.09	24.00	8.91
	5 320	14.63	0.15	14.78	24.00	9.22
	5 500	15.32	0.15	15.47	24.00	8.53
	5 600	15.41	0.15	15.56	24.00	8.44
	5 700	11.56	0.15	11.71	24.00	12.29
	5 720	15.86	0.15	16.01	24.00	7.99
	5 745	16.32	0.15	16.47	30.00	13.53
	5 785	16.48	0.15	16.63	30.00	13.37
	5 825	16.77	0.15	16.92	30.00	13.08
802.11n _HT20	5 180	10.40	0.17	10.57	24.00	13.43
	5 200	9.82	0.17	9.99	24.00	14.01
	5 240	10.31	0.17	10.48	24.00	13.52
	5 260	13.67	0.17	13.84	24.00	10.16
	5 300	13.60	0.17	13.77	24.00	10.23
	5 320	13.31	0.17	13.48	24.00	10.52
	5 500	10.97	0.17	11.14	24.00	12.86
	5 600	10.02	0.17	10.19	24.00	13.81
	5 700	10.84	0.17	11.01	24.00	12.99
	5 720	9.77	0.17	9.94	24.00	14.06
	5 745	12.47	0.17	12.64	30.00	17.36
	5 785	12.89	0.17	13.06	30.00	16.94
	5 825	13.38	0.17	13.55	30.00	16.45
802.11ac _VHT20	5 180	10.26	0.16	10.42	24.00	13.58
	5 200	9.83	0.16	9.99	24.00	14.01
	5 240	10.12	0.16	10.28	24.00	13.72
	5 260	13.64	0.16	13.80	24.00	10.20
	5 300	13.59	0.16	13.75	24.00	10.25
	5 320	13.18	0.16	13.34	24.00	10.66
	5 500	10.96	0.16	11.12	24.00	12.88

	5 600	10.00	0.16	10.16	24.00	13.84
	5 700	10.90	0.16	11.06	24.00	12.94
	5 720	9.82	0.16	9.98	24.00	14.02
	5 745	12.52	0.16	12.68	30.00	17.32
	5 785	12.94	0.16	13.10	30.00	16.90
	5 825	13.47	0.16	13.63	30.00	16.37
802.11n _HT40	5 190	12.61	0.32	12.93	24.00	11.07
	5 230	12.70	0.32	13.02	24.00	10.98
	5 270	11.67	0.32	11.99	24.00	12.01
	5 310	11.71	0.32	12.03	24.00	11.97
	5 510	12.72	0.32	13.04	24.00	10.96
	5 590	12.95	0.32	13.27	24.00	10.73
	5 670	13.23	0.32	13.55	24.00	10.45
	5 710	13.40	0.32	13.72	24.00	10.28
	5 755	16.08	0.32	16.40	30.00	13.60
	5 795	16.19	0.32	16.51	30.00	13.49
802.11ac _VHT40	5 190	12.63	0.32	12.95	24.00	11.05
	5 230	12.69	0.32	13.01	24.00	10.99
	5 270	11.78	0.32	12.10	24.00	11.90
	5 310	11.82	0.32	12.14	24.00	11.86
	5 510	12.69	0.32	13.01	24.00	10.99
	5 590	12.90	0.32	13.22	24.00	10.78
	5 670	13.13	0.32	13.45	24.00	10.55
	5 710	13.34	0.32	13.66	24.00	10.34
	5 755	16.03	0.32	16.35	30.00	13.65
	5 795	16.23	0.32	16.55	30.00	13.45
802.11ac _VHT80	5 210	11.68	0.61	12.29	24.00	11.71
	5 290	11.34	0.61	11.95	24.00	12.05
	5 530	12.30	0.61	12.91	24.00	11.09
	5 610	12.52	0.61	13.13	24.00	10.87
	5 690	12.73	0.61	13.34	24.00	10.66
	5 775	15.64	0.61	16.25	30.00	13.75
Measurement uncertainty		± 1.5 dB				

ANT2

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	14.18	0.15	14.33	24.00	9.67
	5 200	13.50	0.15	13.65	24.00	10.35
	5 240	13.75	0.15	13.90	24.00	10.10
	5 260	15.10	0.15	15.25	24.00	8.75
	5 300	15.04	0.15	15.19	24.00	8.81
	5 320	14.79	0.15	14.94	24.00	9.06
	5 500	14.82	0.15	14.97	24.00	9.03
	5 600	15.24	0.15	15.39	24.00	8.61
	5 700	14.65	0.15	14.80	24.00	9.20
	5 720	15.66	0.15	15.81	24.00	8.19
	5 745	16.52	0.15	16.67	30.00	13.33
	5 785	17.07	0.15	17.22	30.00	12.78
	5 825	17.38	0.15	17.53	30.00	12.47
802.11n _HT20	5 180	10.42	0.17	10.59	24.00	13.41
	5 200	9.85	0.17	10.02	24.00	13.98
	5 240	10.14	0.17	10.31	24.00	13.69
	5 260	13.60	0.17	13.77	24.00	10.23
	5 300	13.52	0.17	13.69	24.00	10.31
	5 320	13.45	0.17	13.62	24.00	10.38
	5 500	13.04	0.17	13.21	24.00	10.79
	5 600	13.18	0.17	13.35	24.00	10.65
	5 700	12.90	0.17	13.07	24.00	10.93
	5 720	13.42	0.17	13.59	24.00	10.41
	5 745	15.79	0.17	15.96	30.00	14.04
	5 785	16.23	0.17	16.40	30.00	13.60
	5 825	16.64	0.17	16.81	30.00	13.19
802.11ac _VHT20	5 180	11.56	0.16	11.72	24.00	12.28
	5 200	11.33	0.16	11.49	24.00	12.51
	5 240	11.49	0.16	11.65	24.00	12.35
	5 260	14.77	0.16	14.93	24.00	9.07
	5 300	14.77	0.16	14.93	24.00	9.07
	5 320	14.61	0.16	14.77	24.00	9.23
	5 500	13.61	0.16	13.77	24.00	10.23
	5 600	13.31	0.16	13.47	24.00	10.53

	5 700	12.88	0.16	13.04	24.00	10.96
	5 720	12.91	0.16	13.07	24.00	10.93
	5 745	15.27	0.16	15.43	30.00	14.57
	5 785	15.45	0.16	15.61	30.00	14.39
	5 825	15.75	0.16	15.91	30.00	14.09
802.11n _HT40	5 190	13.72	0.32	14.04	24.00	9.96
	5 230	13.65	0.32	13.97	24.00	10.03
	5 270	12.59	0.32	12.91	24.00	11.09
	5 310	12.47	0.32	12.79	24.00	11.21
	5 510	12.50	0.32	12.82	24.00	11.18
	5 590	12.55	0.32	12.87	24.00	11.13
	5 670	12.72	0.32	13.04	24.00	10.96
	5 710	12.74	0.32	13.06	24.00	10.94
	5 755	15.80	0.32	16.12	30.00	13.88
	5 795	16.20	0.32	16.52	30.00	13.48
802.11ac _VHT40	5 190	14.33	0.32	14.65	24.00	9.35
	5 230	14.24	0.32	14.56	24.00	9.44
	5 270	13.39	0.32	13.71	24.00	10.29
	5 310	13.43	0.32	13.75	24.00	10.25
	5 510	13.58	0.32	13.90	24.00	10.10
	5 590	13.32	0.32	13.64	24.00	10.36
	5 670	12.79	0.32	13.11	24.00	10.89
	5 710	12.82	0.32	13.14	24.00	10.86
	5 755	15.49	0.32	15.81	30.00	14.19
	5 795	15.69	0.32	16.01	30.00	13.99
802.11ac _VHT80	5 210	13.36	0.61	13.97	24.00	10.03
	5 290	12.85	0.61	13.46	24.00	10.54
	5 530	13.06	0.61	13.67	24.00	10.33
	5 610	12.69	0.61	13.30	24.00	10.70
	5 690	12.43	0.61	13.04	24.00	10.96
	5 775	15.15	0.61	15.76	30.00	14.24
Measurement uncertainty		± 1.5 dB				

ANT1 + ANT2

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	13.42	0.17	13.59	23.48	9.89
	5 200	12.85	0.17	13.02	23.48	10.46
	5 240	13.24	0.17	13.41	23.48	10.07
	5 260	16.65	0.17	16.82	23.48	6.66
	5 300	16.57	0.17	16.74	23.48	6.74
	5 320	16.39	0.17	16.56	23.48	6.92
	5 500	15.14	0.17	15.31	23.48	8.17
	5 600	14.89	0.17	15.06	23.48	8.42
	5 700	15.00	0.17	15.17	23.48	8.31
	5 720	14.98	0.17	15.15	23.48	8.33
	5 745	17.45	0.17	17.62	29.48	11.86
	5 785	17.88	0.17	18.05	29.48	11.43
	5 825	18.32	0.17	18.49	29.48	10.99
802.11ac _VHT20	5 180	13.97	0.16	14.13	23.48	9.35
	5 200	13.65	0.16	13.81	23.48	9.67
	5 240	13.87	0.16	14.03	23.48	9.45
	5 260	17.25	0.16	17.41	23.48	6.07
	5 300	17.23	0.16	17.39	23.48	6.09
	5 320	16.96	0.16	17.12	23.48	6.36
	5 500	15.49	0.16	15.65	23.48	7.83
	5 600	14.97	0.16	15.13	23.48	8.35
	5 700	15.01	0.16	15.17	23.48	8.31
	5 720	14.64	0.16	14.80	23.48	8.68
	5 745	17.12	0.16	17.28	29.48	12.20
	5 785	17.38	0.16	17.54	29.48	11.94
	5 825	17.77	0.16	17.93	29.48	11.55
802.11n _HT40	5 190	16.21	0.32	16.53	23.48	6.95
	5 230	16.21	0.32	16.53	23.48	6.95
	5 270	15.16	0.32	15.48	23.48	8.00
	5 310	15.12	0.32	15.44	23.48	8.04
	5 510	15.62	0.32	15.94	23.48	7.54
	5 590	15.76	0.32	16.08	23.48	7.40
	5 670	15.99	0.32	16.31	23.48	7.17
	5 710	16.09	0.32	16.41	23.48	7.07

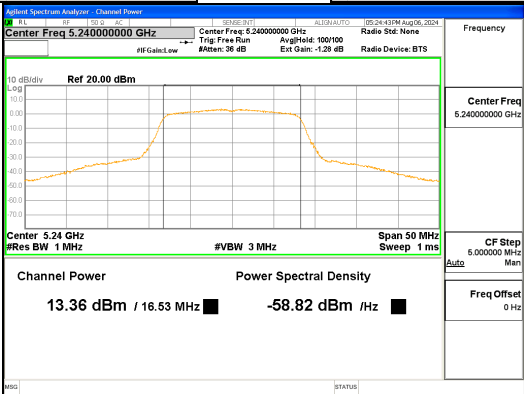
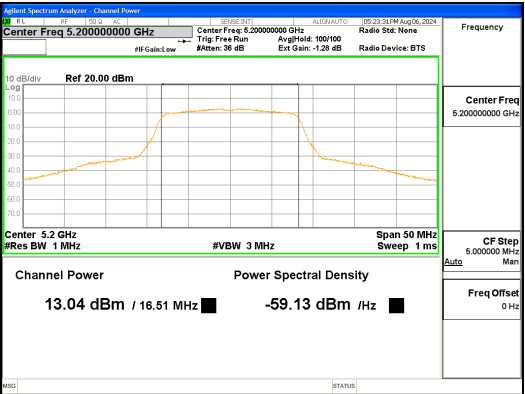
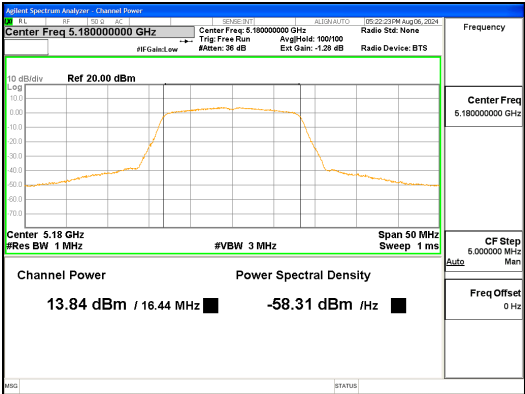
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802.11ac _VHT40	5 190	16.57	0.32	16.89	23.48	6.59
	5 230	16.54	0.32	16.86	23.48	6.62
	5 270	15.67	0.32	15.99	23.48	7.49
	5 310	15.71	0.32	16.03	23.48	7.45
	5 510	16.17	0.32	16.49	23.48	6.99
	5 590	16.13	0.32	16.45	23.48	7.03
	5 670	15.97	0.32	16.29	23.48	7.19
	5 710	16.10	0.32	16.42	23.48	7.06
	5 755	18.78	0.32	19.10	29.48	10.38
	5 795	18.98	0.32	19.30	29.48	10.18
802.11ac _VHT80	5 210	15.61	0.61	16.22	23.48	7.26
	5 290	15.17	0.61	15.78	23.48	7.70
	5 530	15.71	0.61	16.32	23.48	7.16
	5 610	15.62	0.61	16.23	23.48	7.25
	5 690	15.59	0.61	16.20	23.48	7.28
	5 775	18.41	0.61	19.02	29.48	10.46
Measurement uncertainty		± 1.5 dB				

See next pages for actual measured spectrum plots.

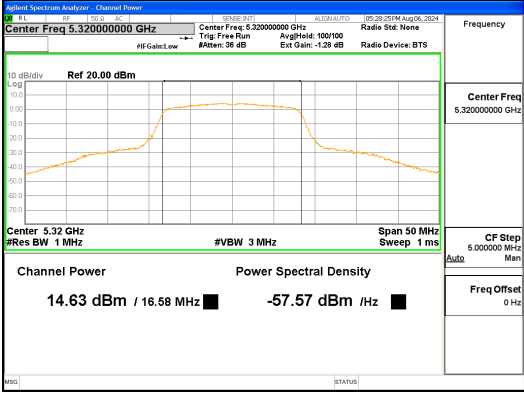
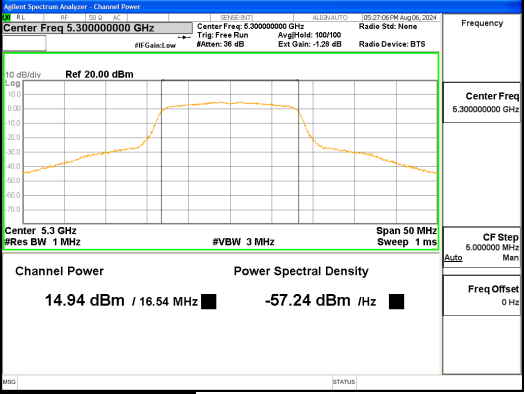
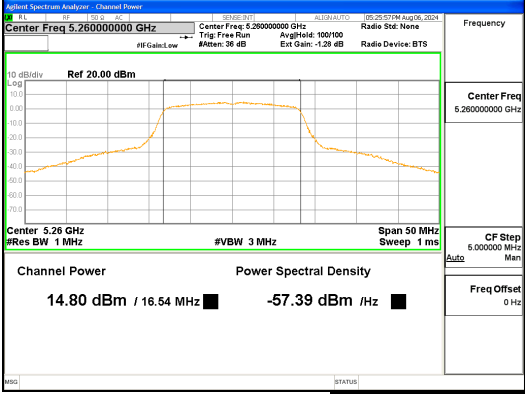


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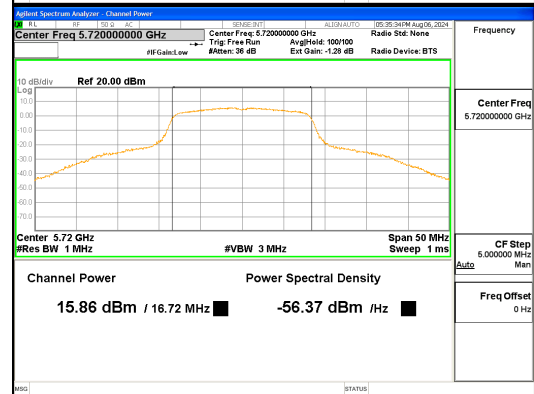
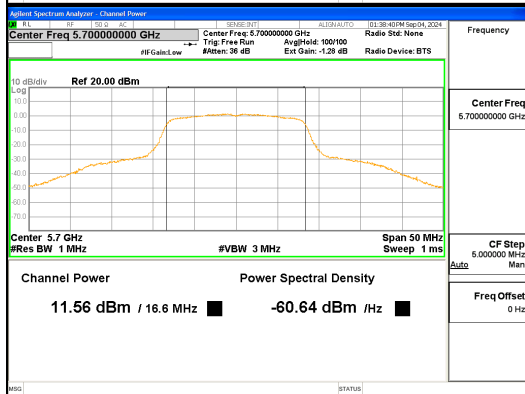
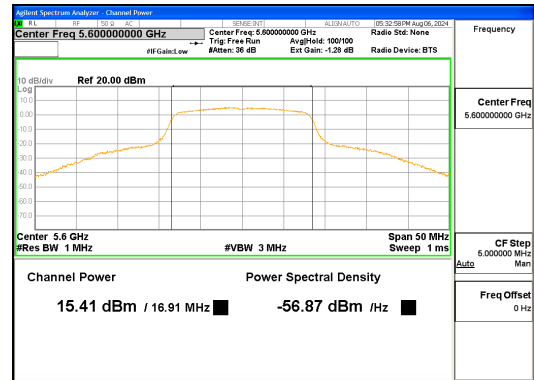
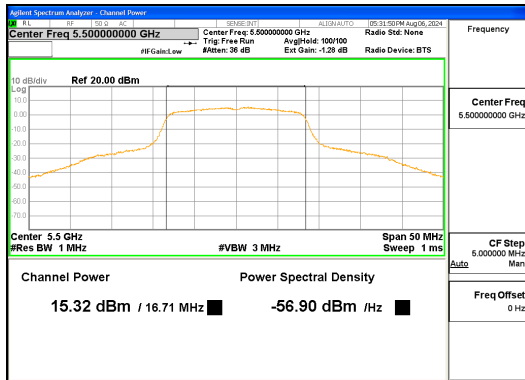


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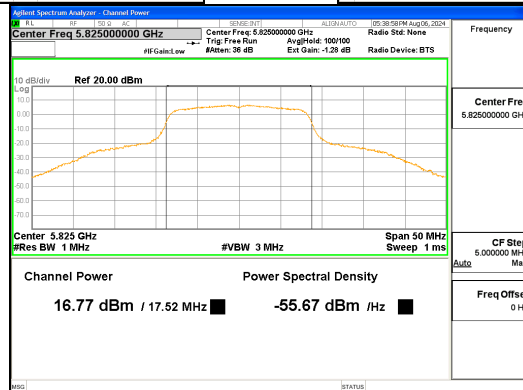
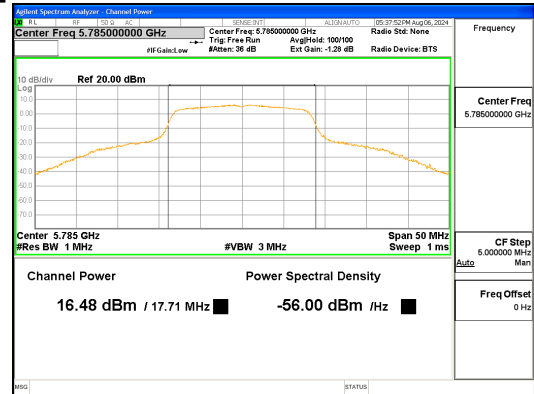
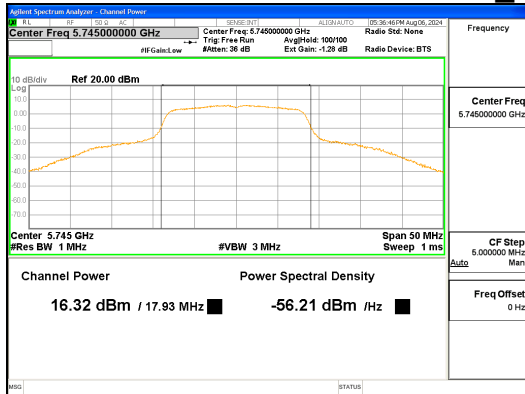


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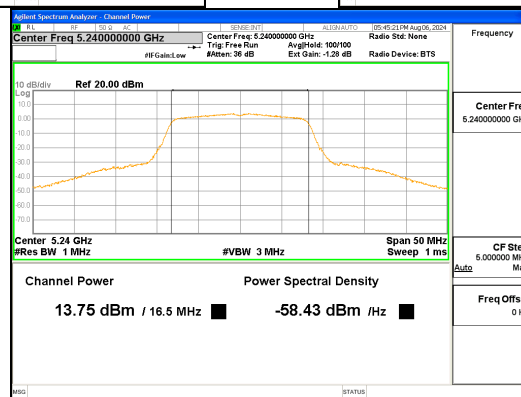
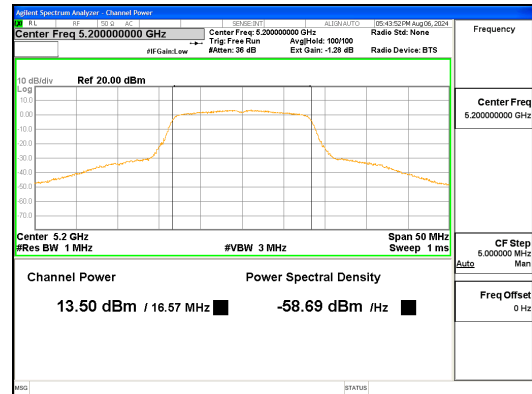
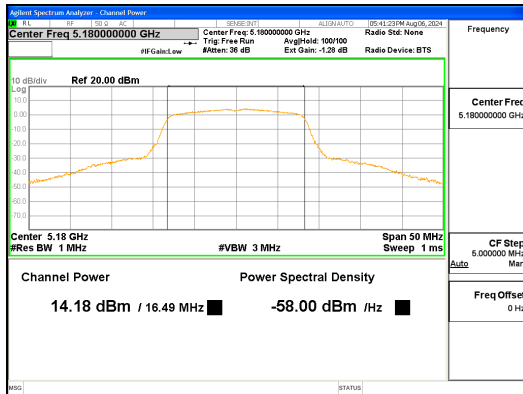


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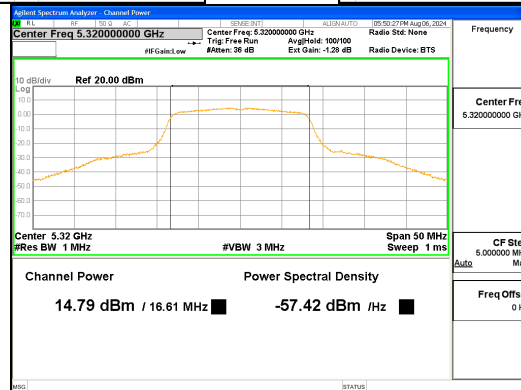
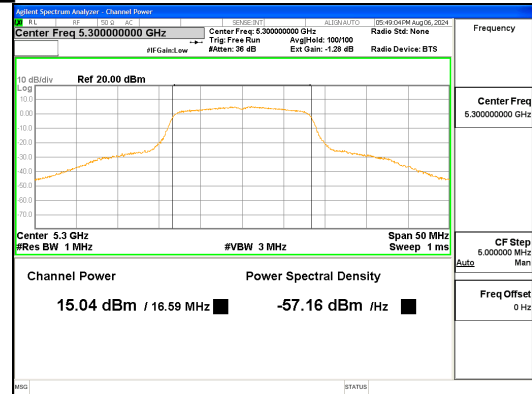
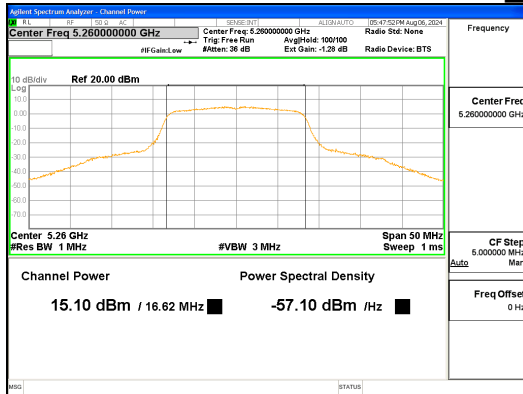


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ANT2_802.11a_UNII 1

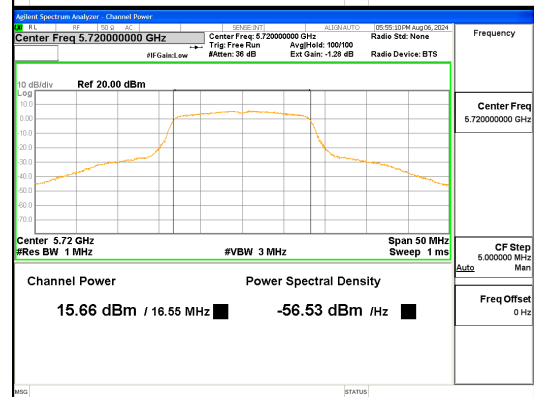
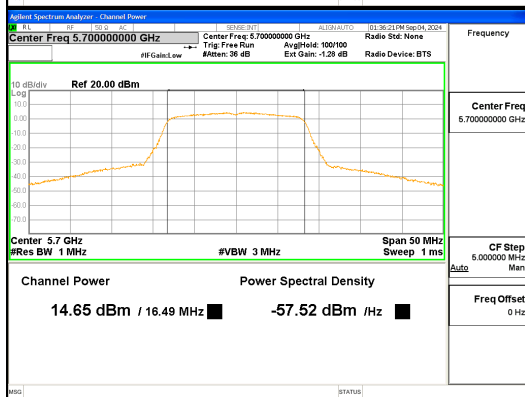
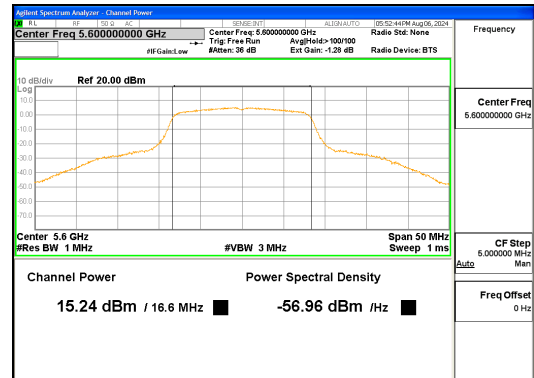
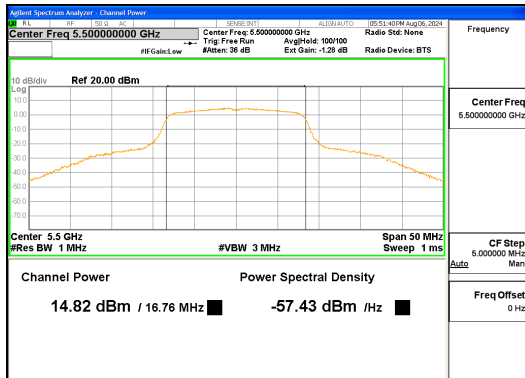


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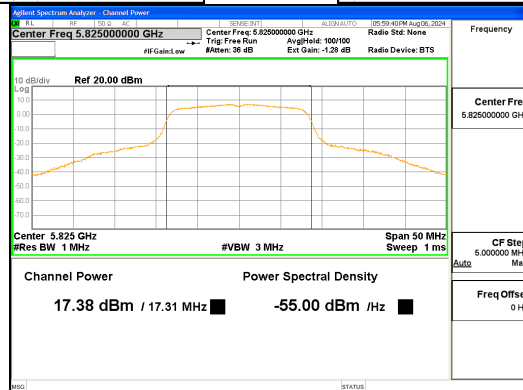
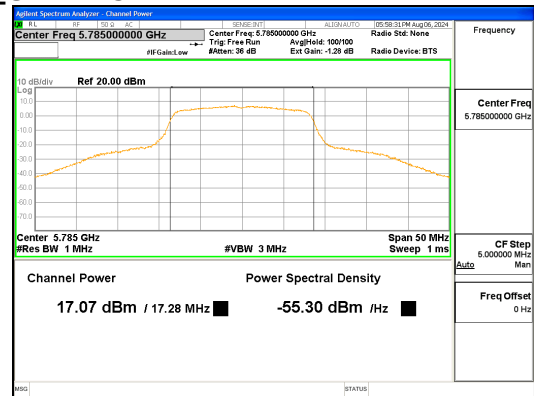
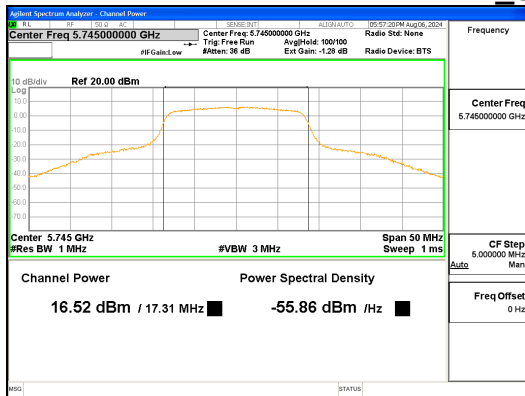


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ANT2_802.11a_UNII 2C

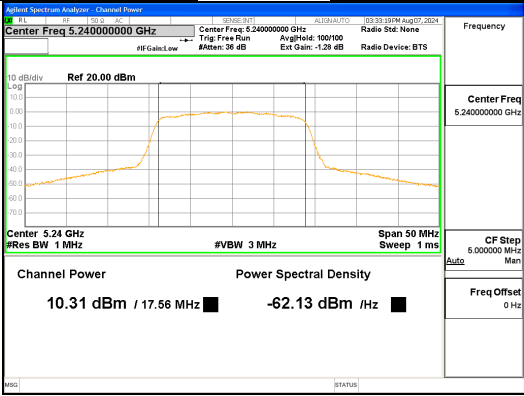
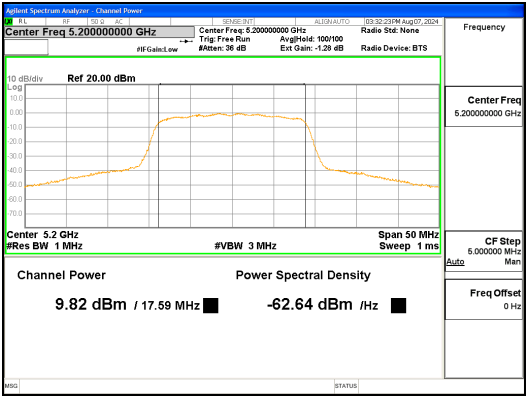
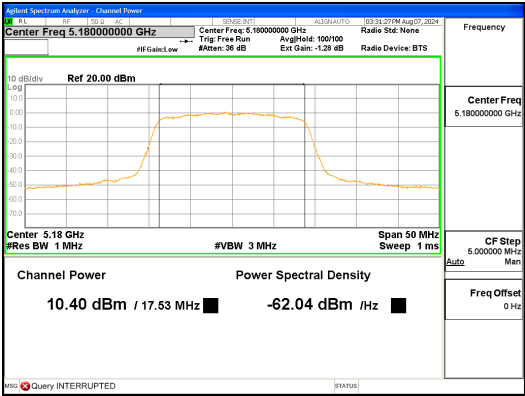


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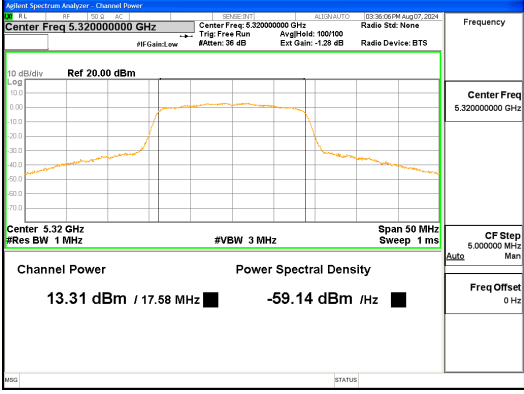
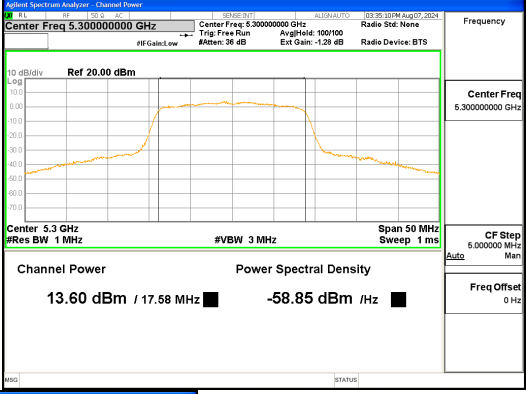
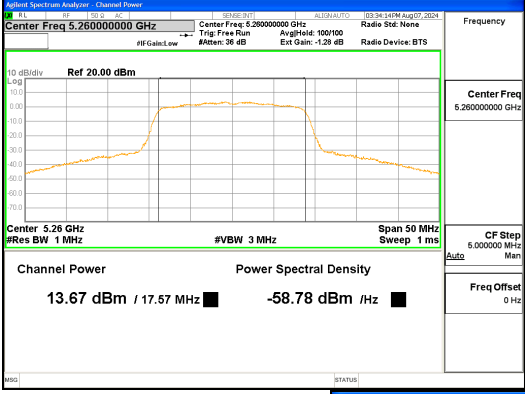


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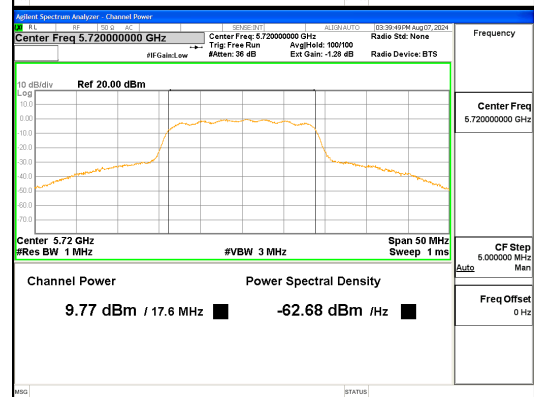
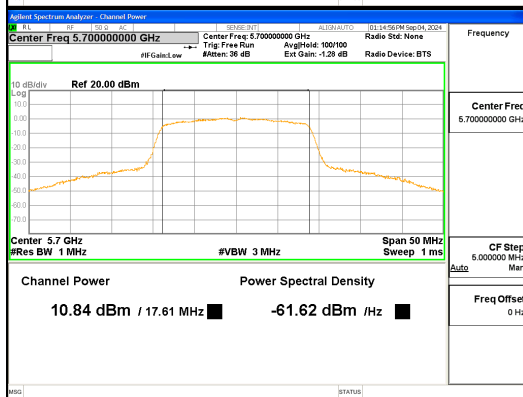
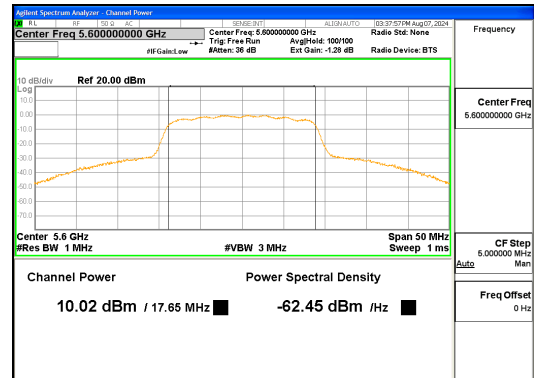
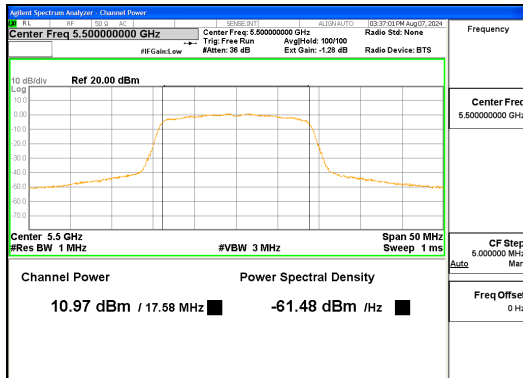
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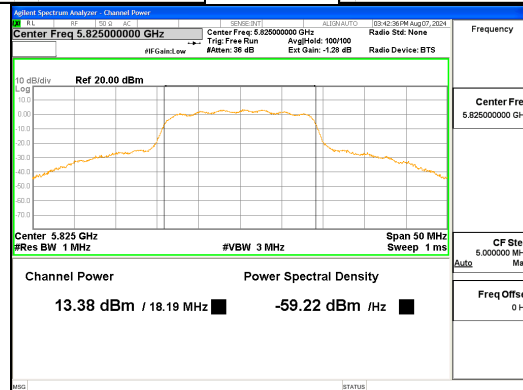
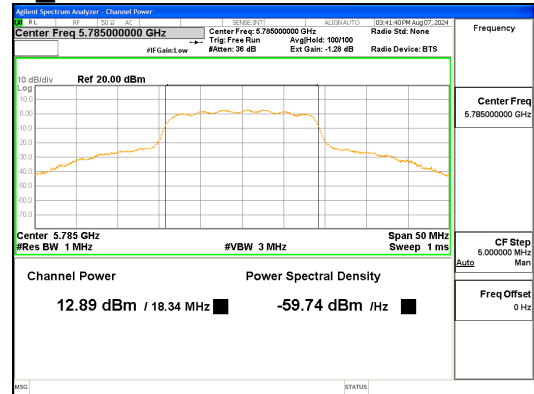
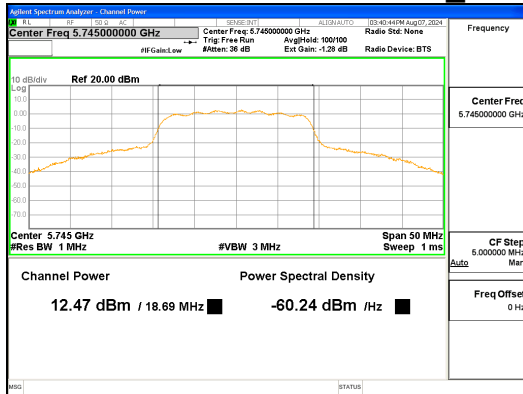
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ANT1_802.11n_HT20_UNII 2A



ANT1_802.11n_HT20_UNII 2C

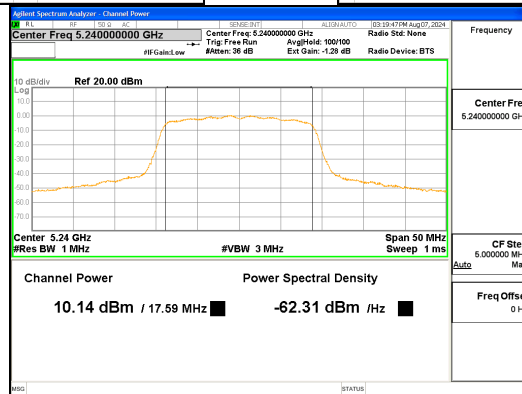
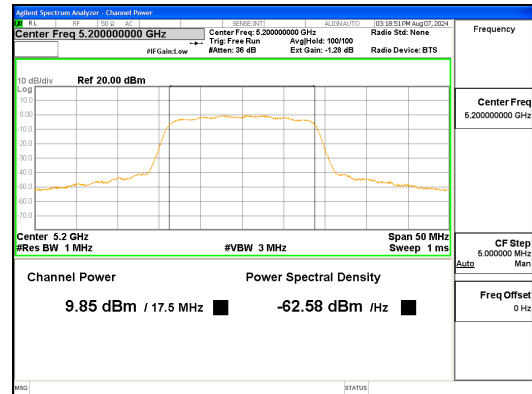
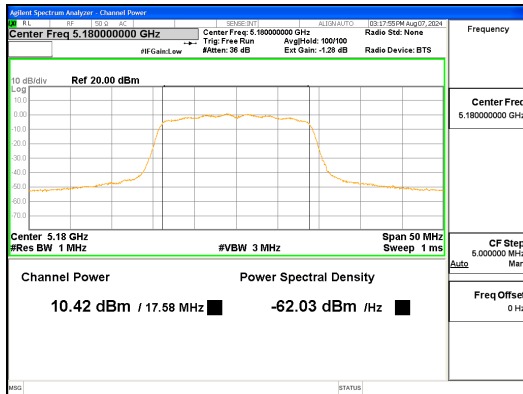


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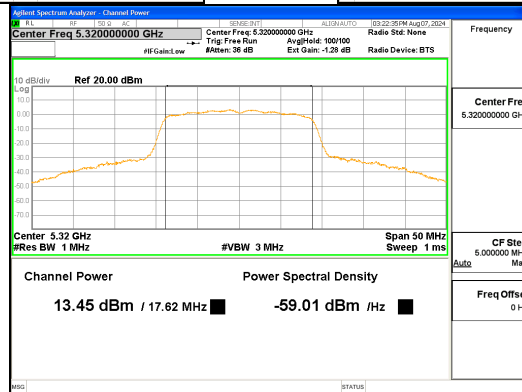
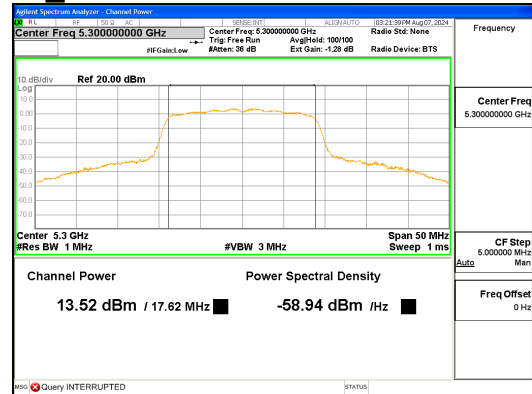
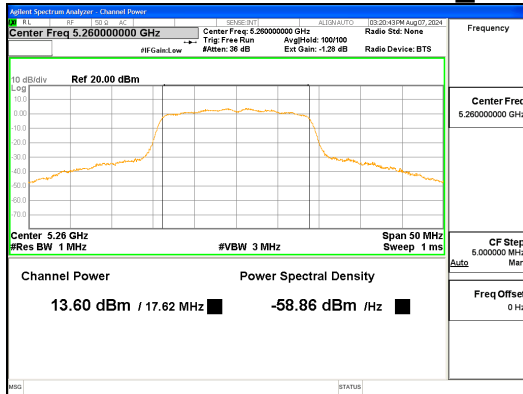


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ANT2_802.11n_HT20_UNII 1

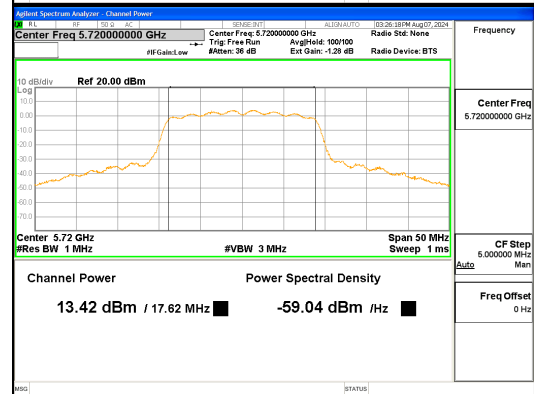
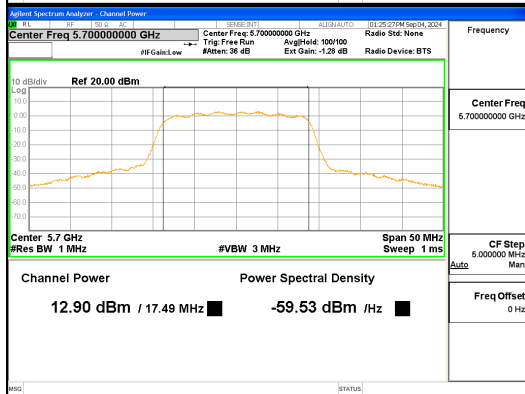
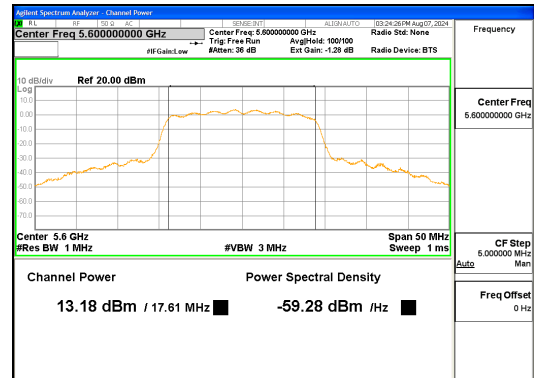
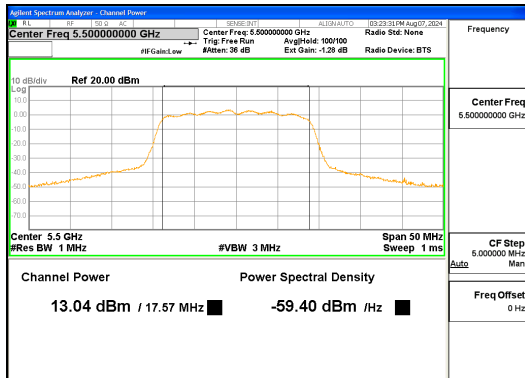


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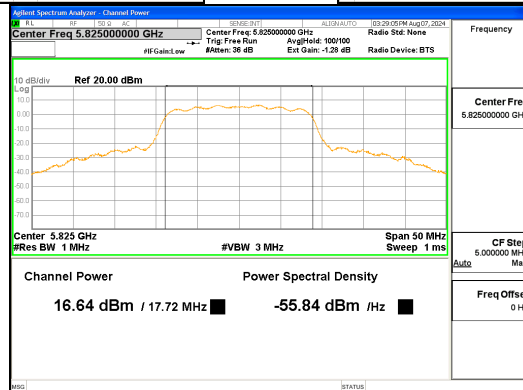
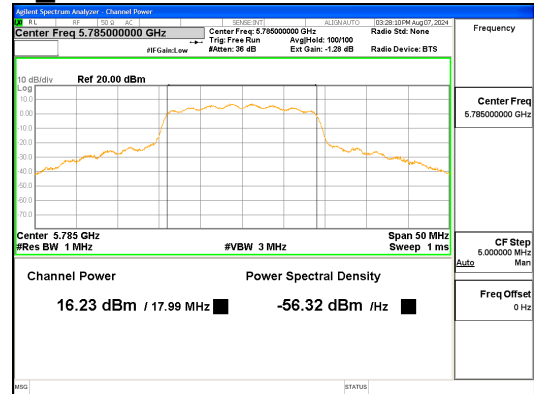
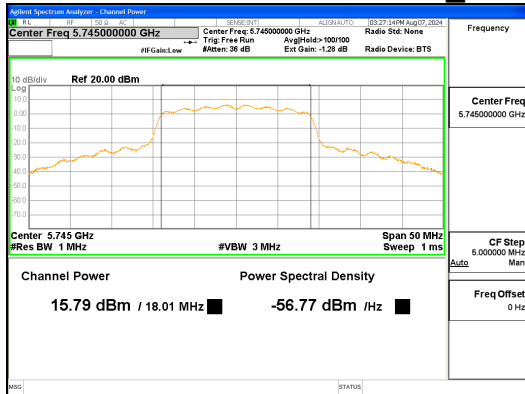


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ANT2_802.11n_HT20_UNII 2C

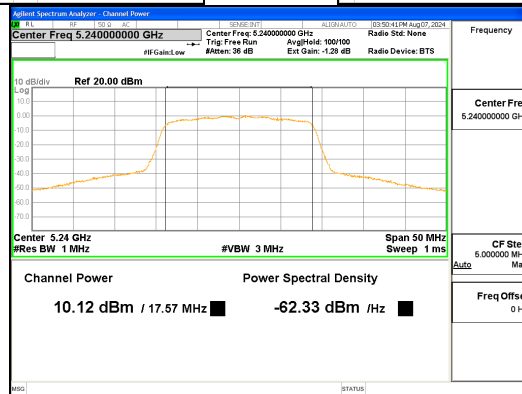
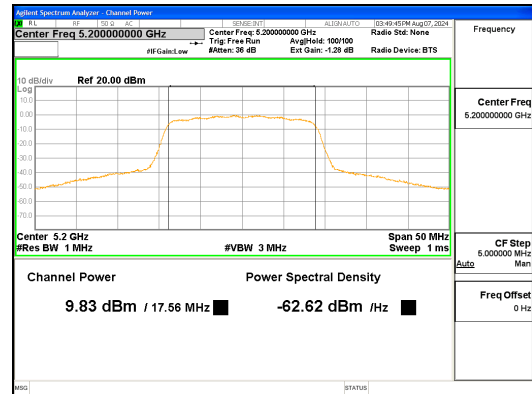
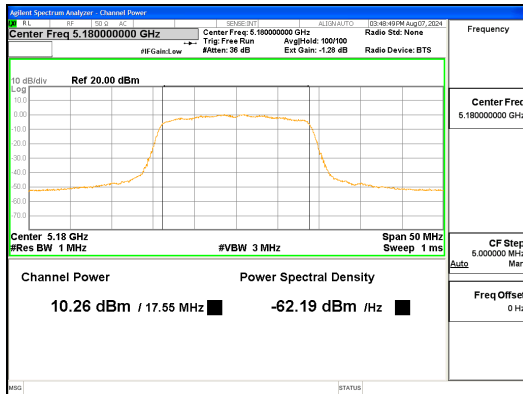


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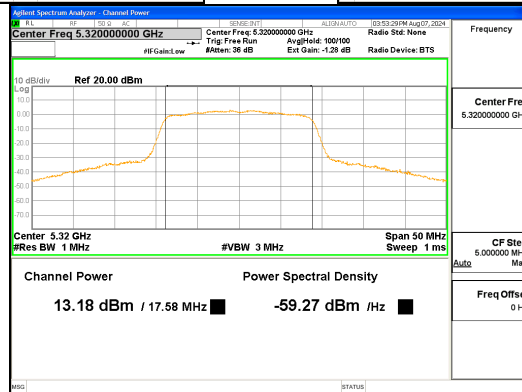
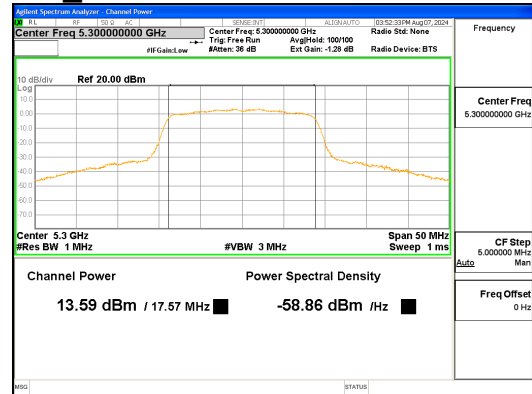
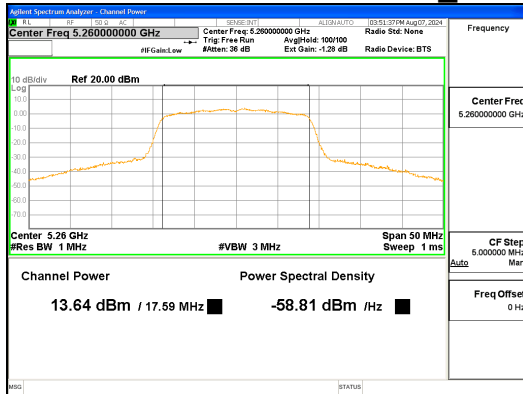


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