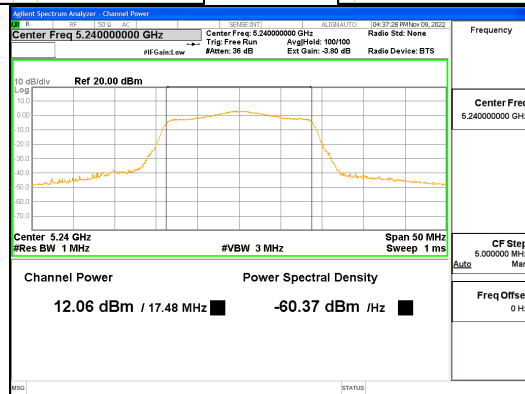
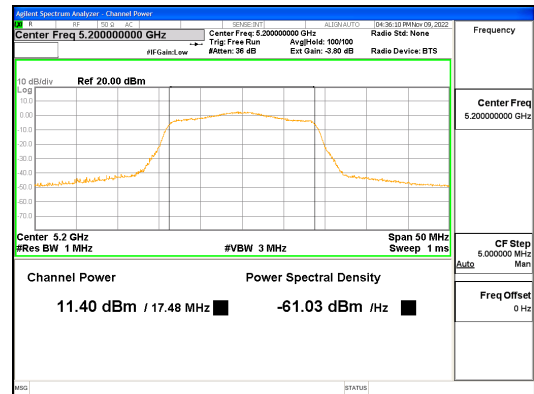
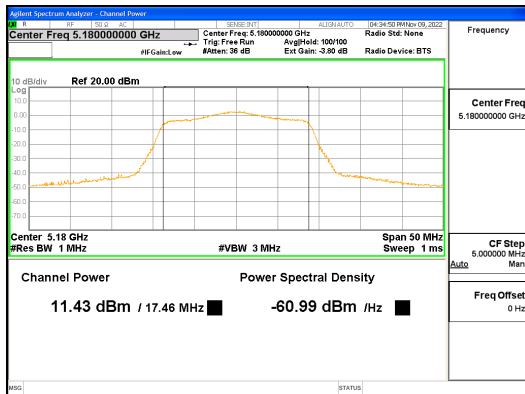


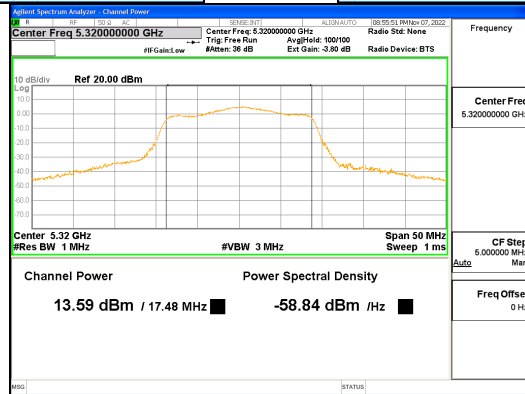
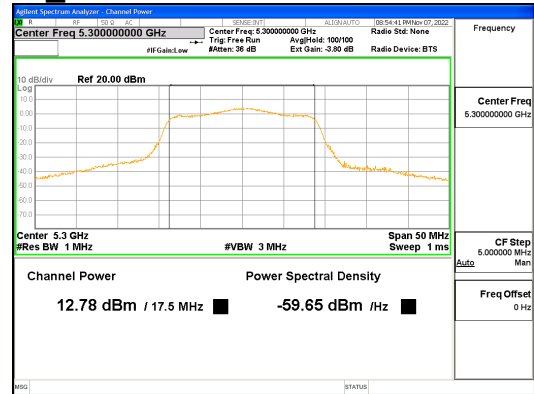
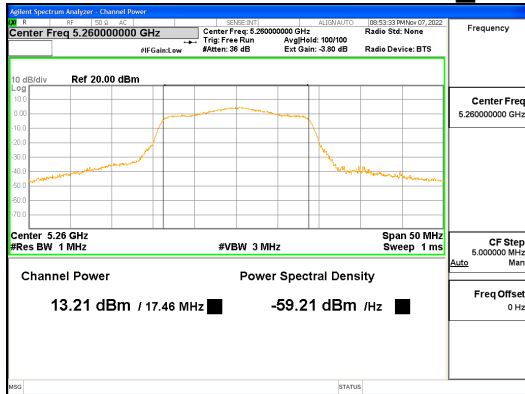


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ANT2_802.11n_HT20_UNII 1

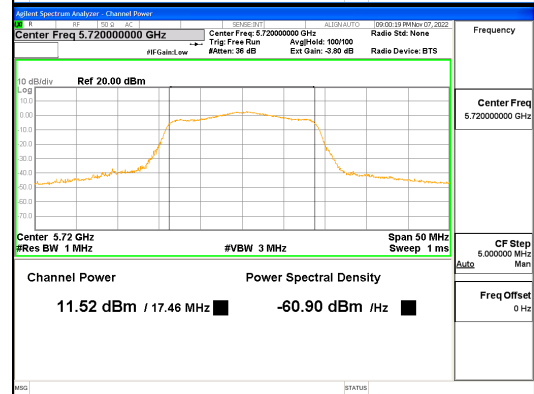
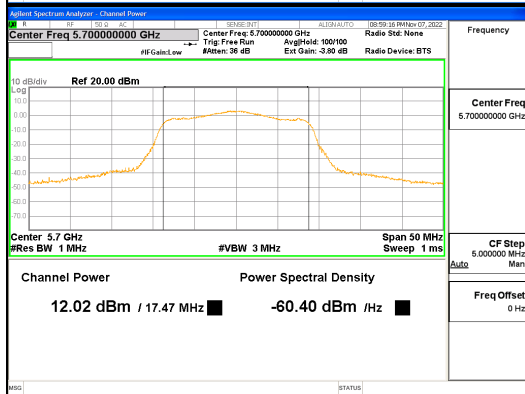
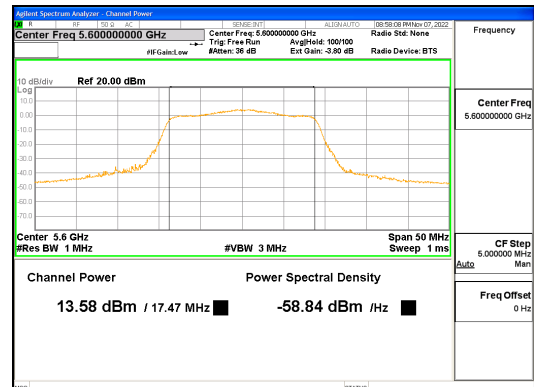
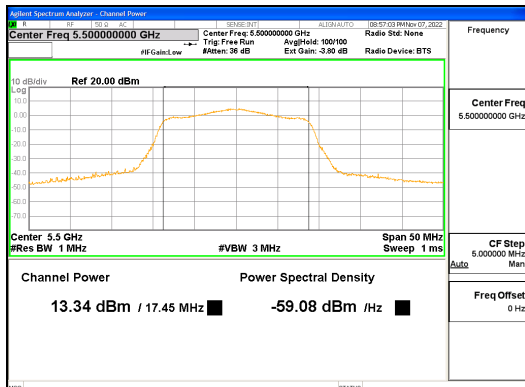


ANT2_802.11n_HT20_UNII 2A

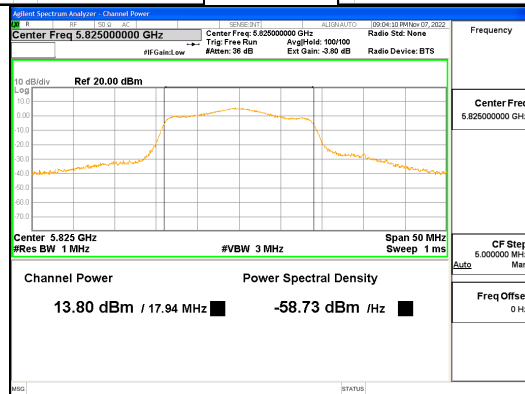
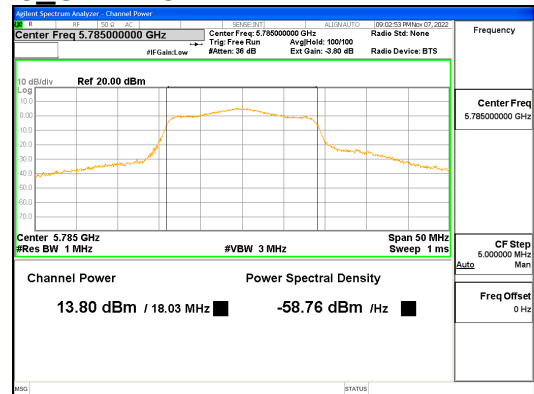
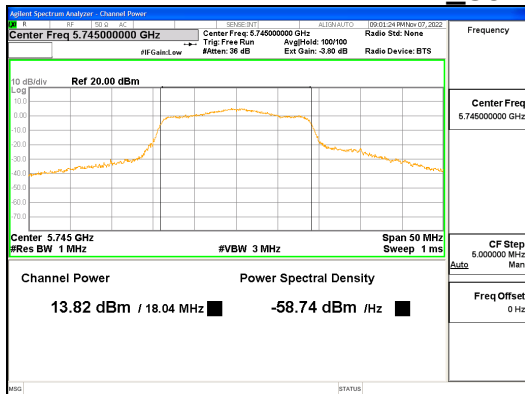


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ANT2_802.11n_HT20_UNII 2C

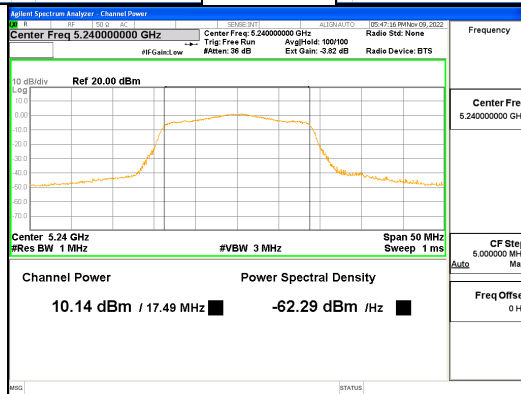
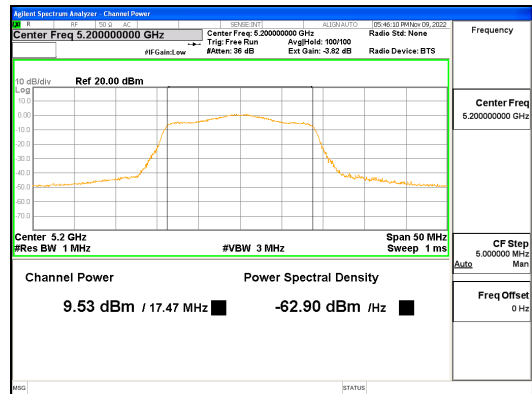
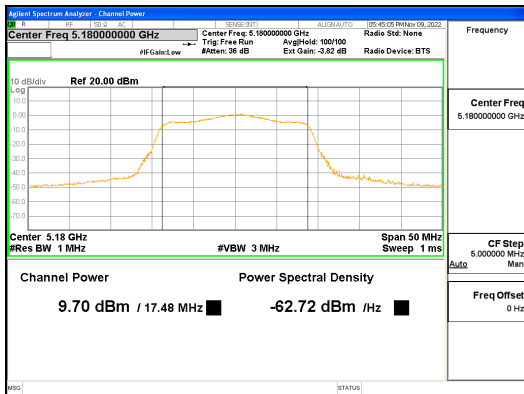


ANT2_802.11n_HT20_UNII 3

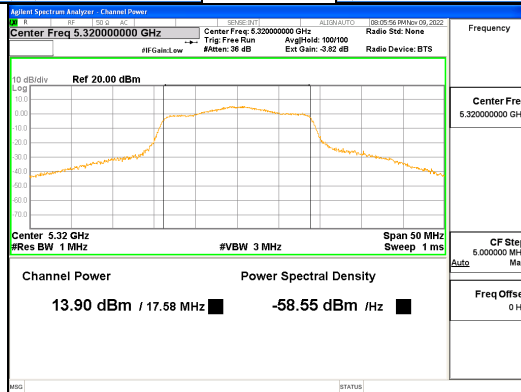
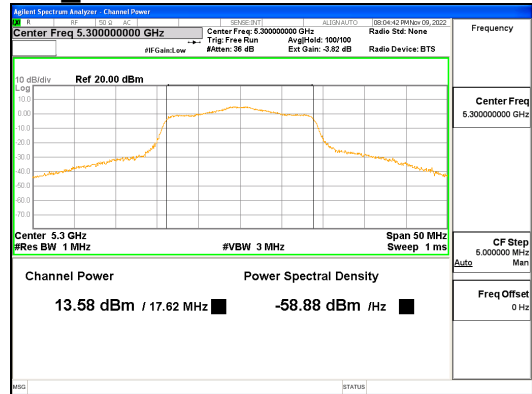
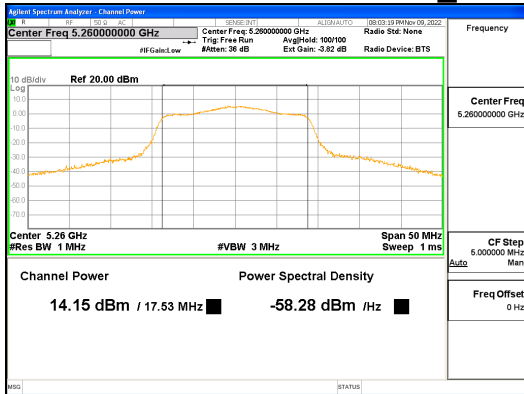


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ANT1_802.11ac_VHT20_UNII 1

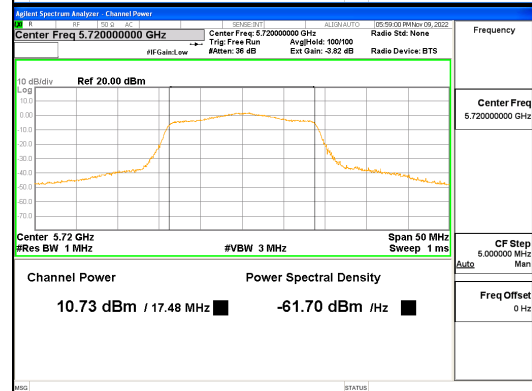
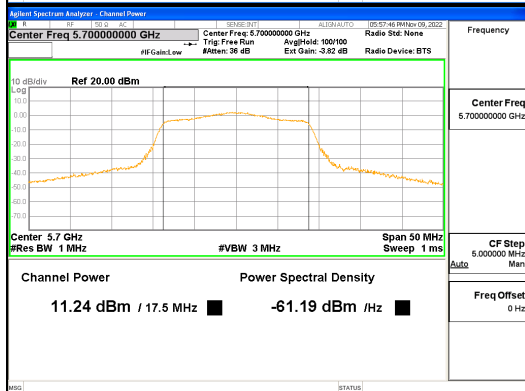
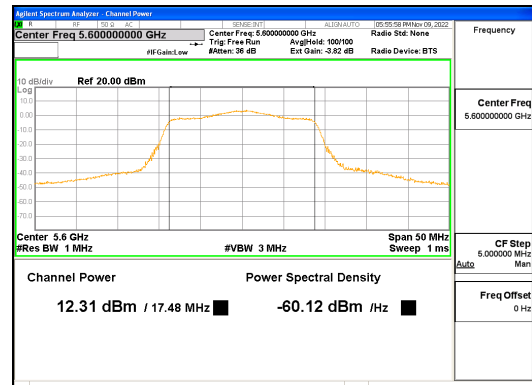
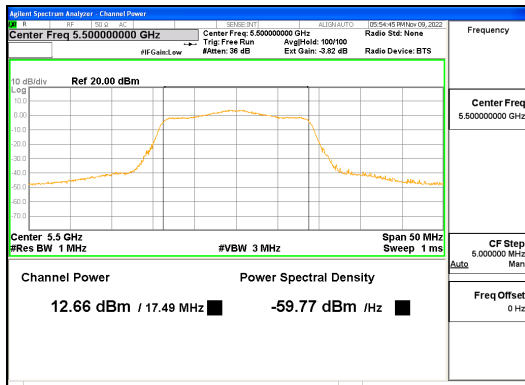


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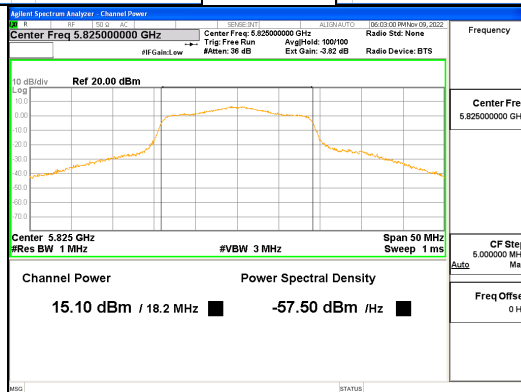
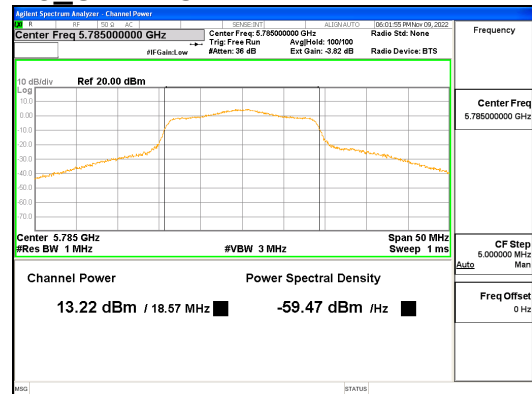
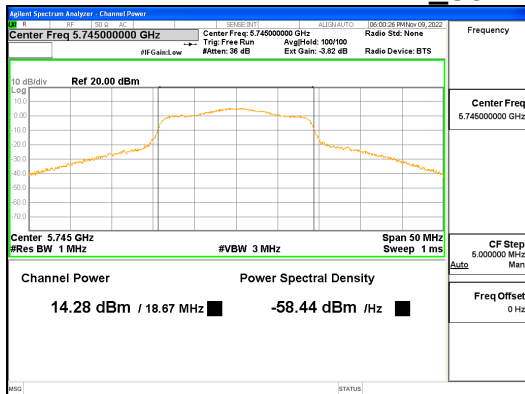


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ANT1_802.11ac_VHT20_UNII 2C

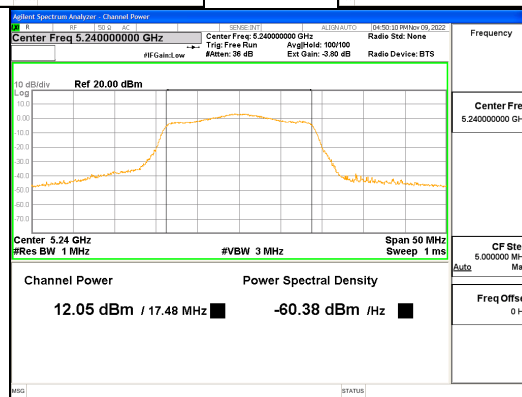
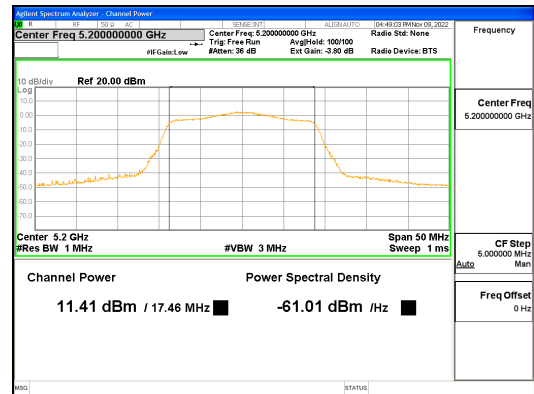
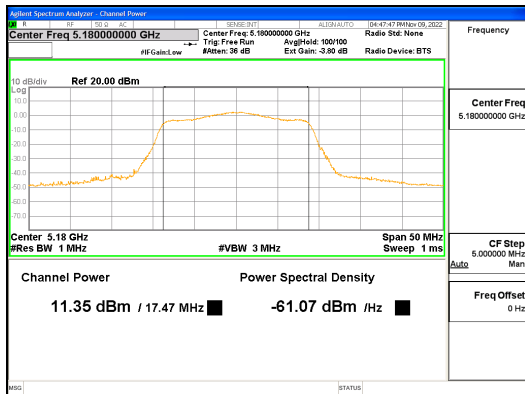


ANT1_802.11ac_VHT20_UNII 3

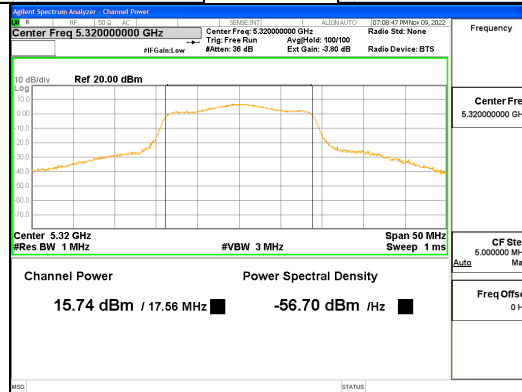
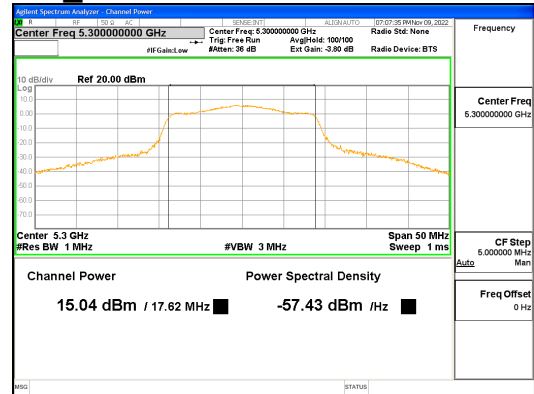
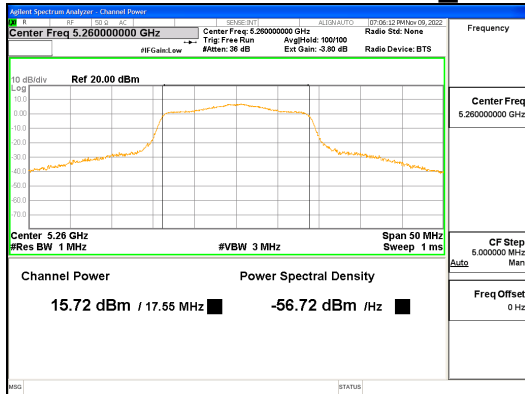


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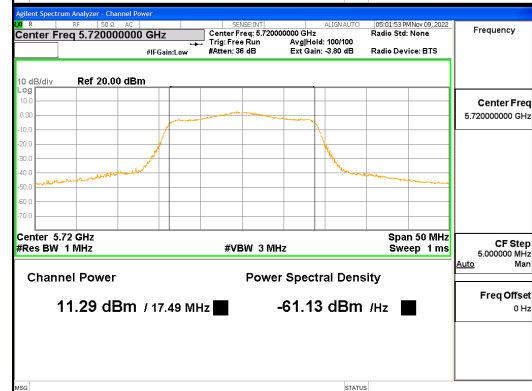
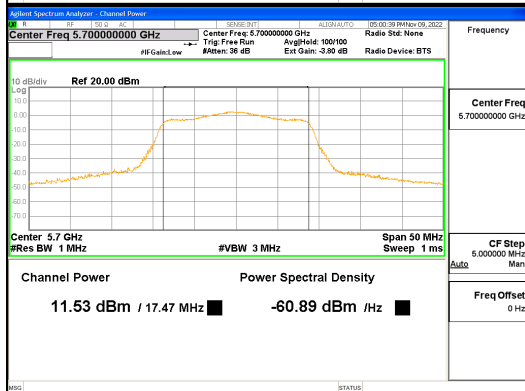
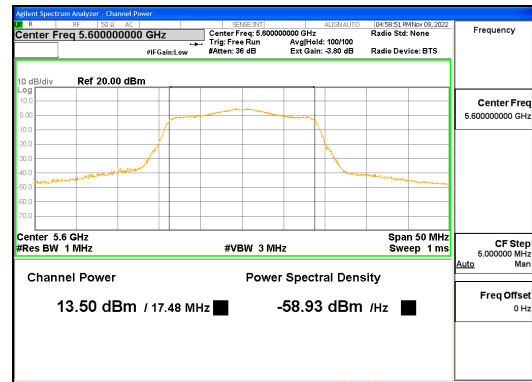
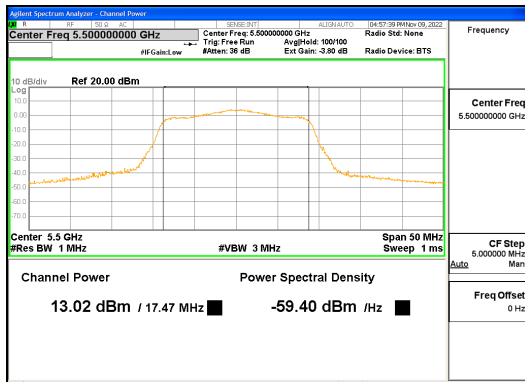
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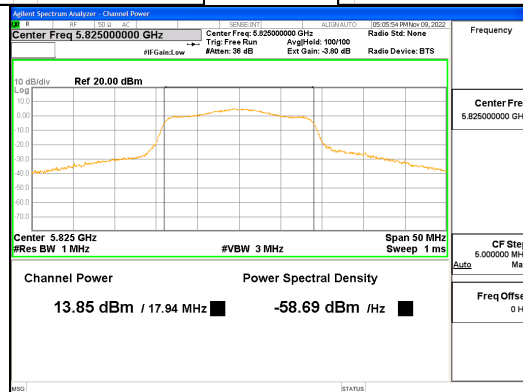
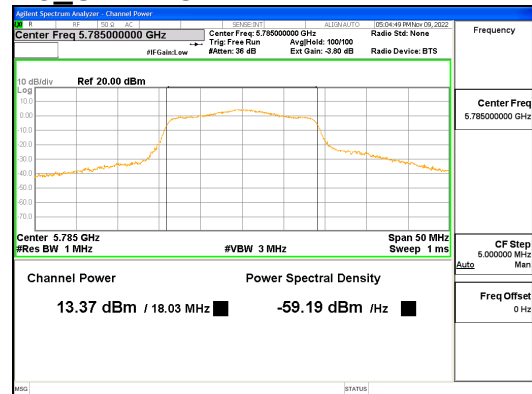
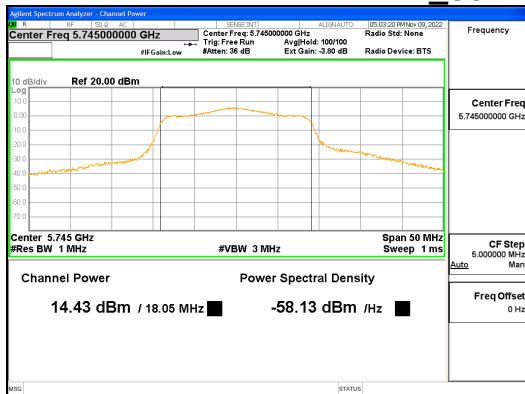
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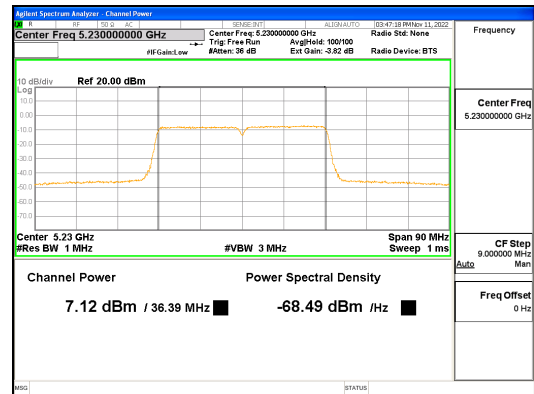
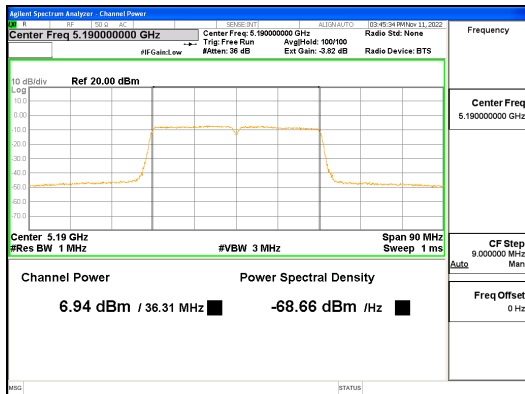
ANT2_802.11ac_VHT20_UNII 2A



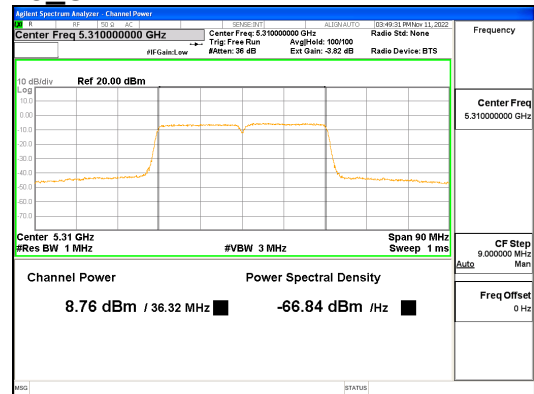
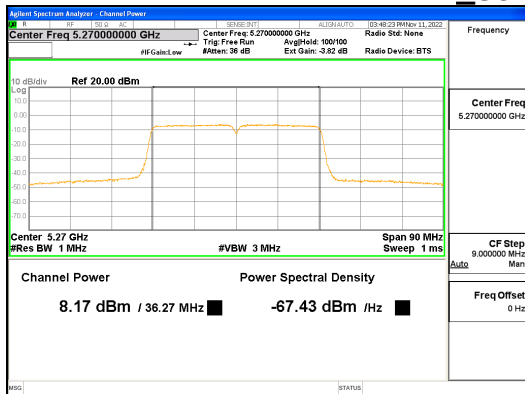
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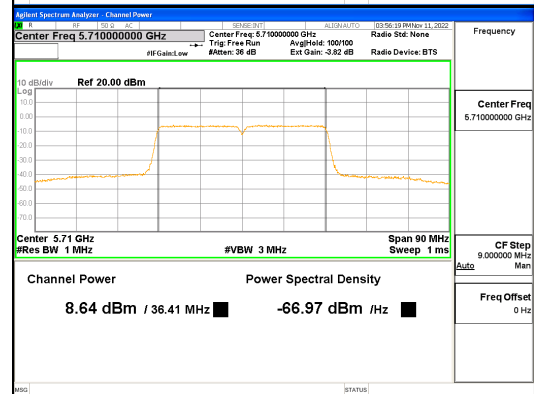
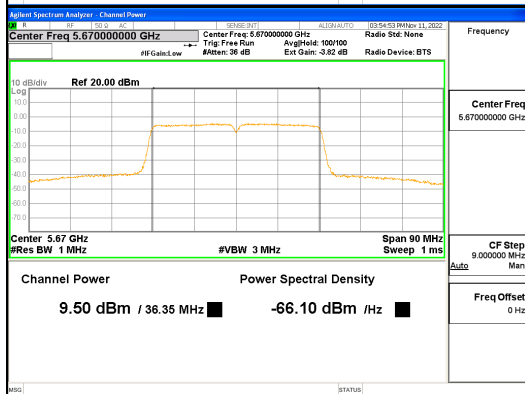
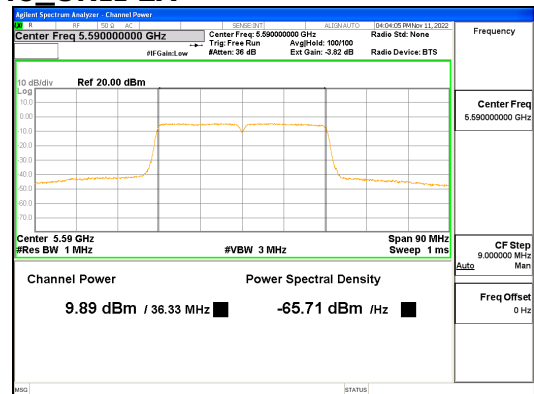
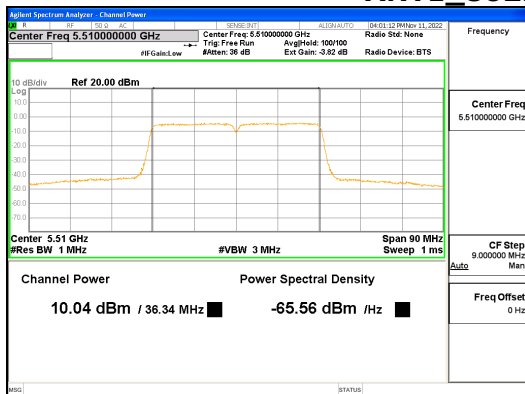
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ANT1_802.11n_HT40_UNII 1



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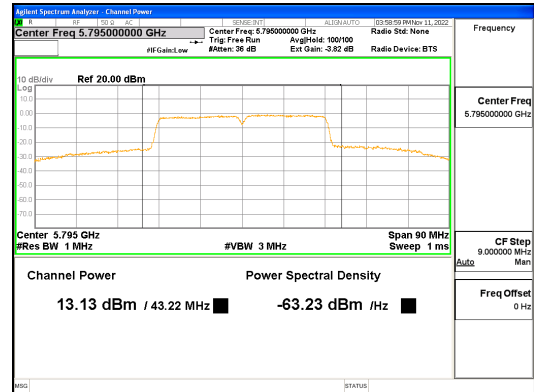
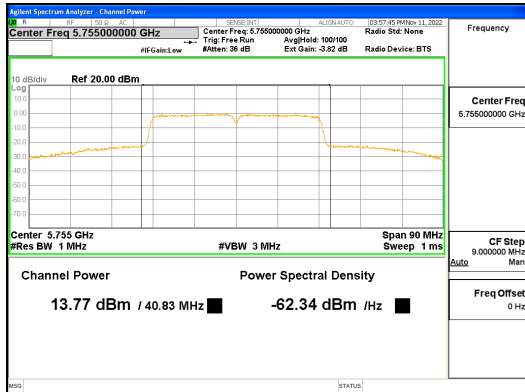


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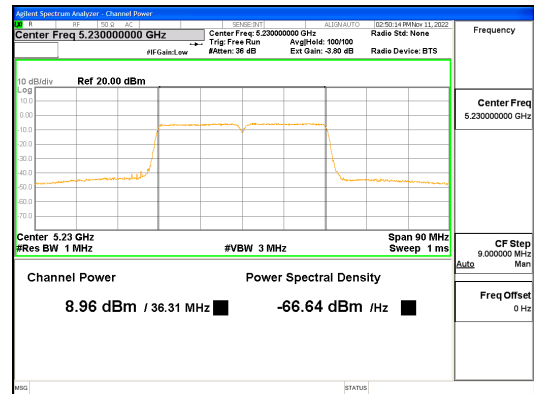
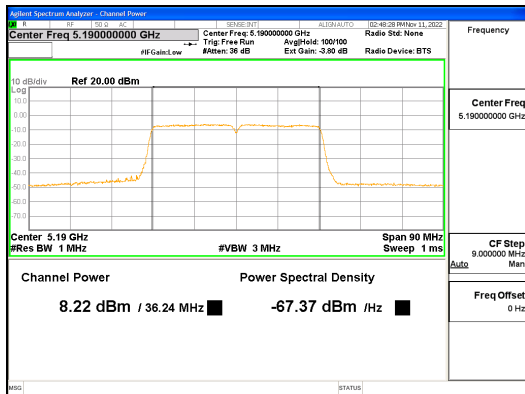


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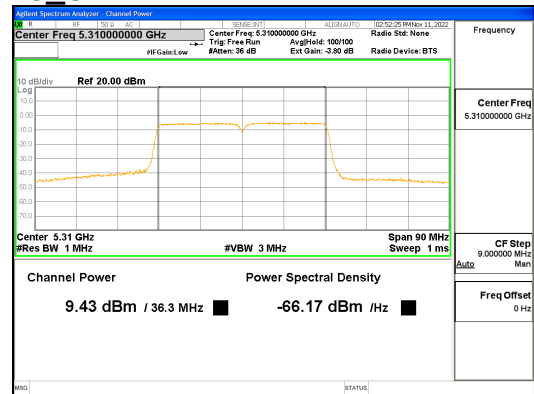
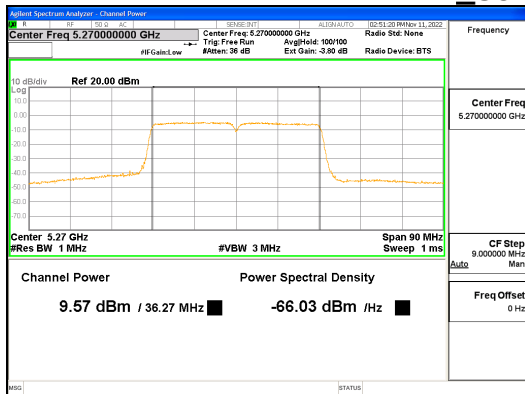
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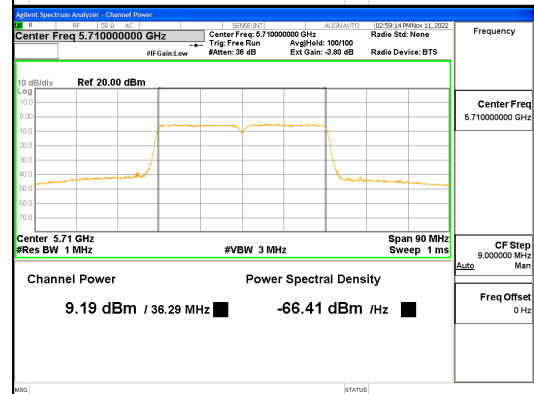
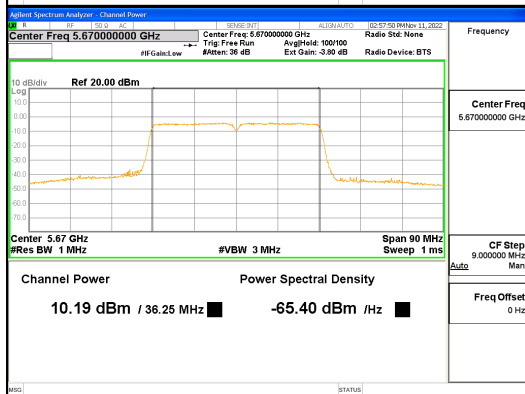
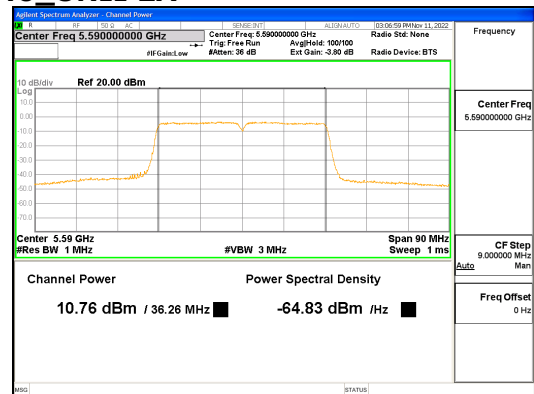
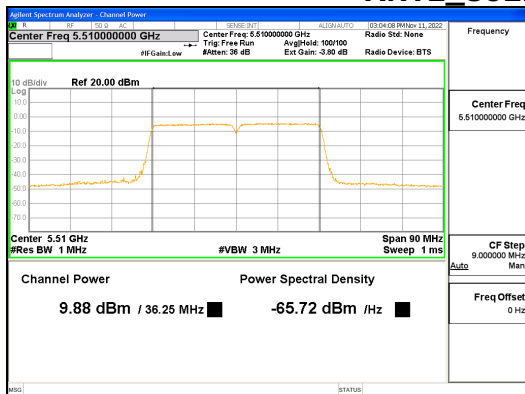
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ANT2_802.11n_HT40_UNII 1



ANT2_802.11n_HT40_UNII 2A

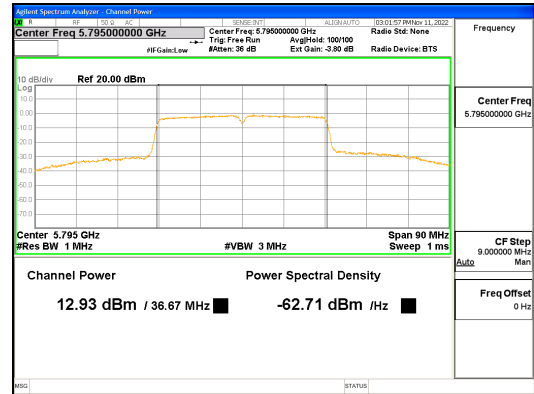
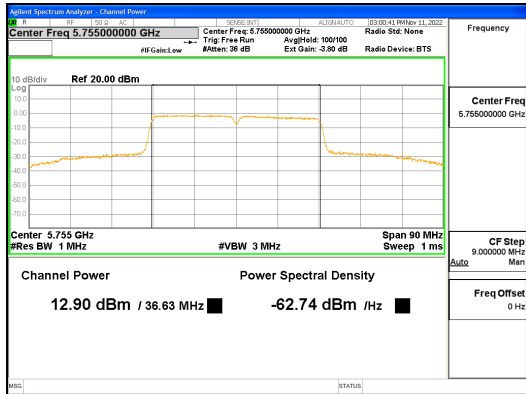


ANT2_802.11n_HT40_UNII 2C



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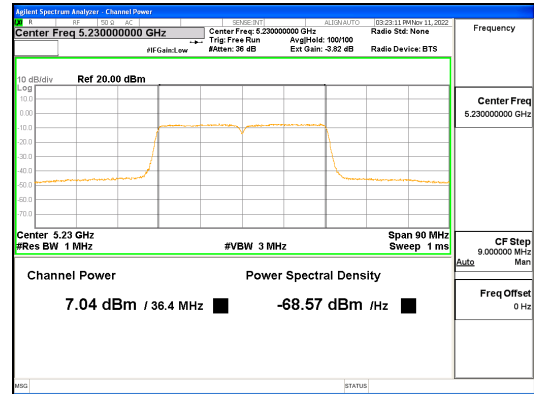
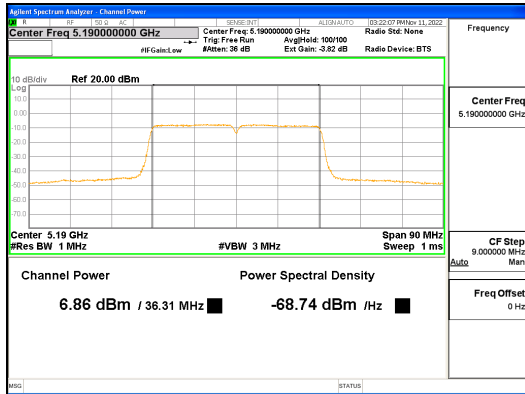


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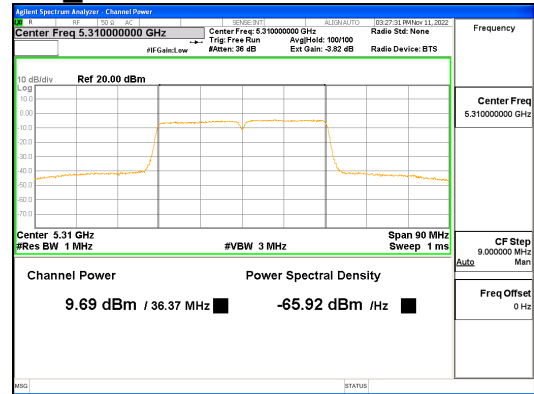
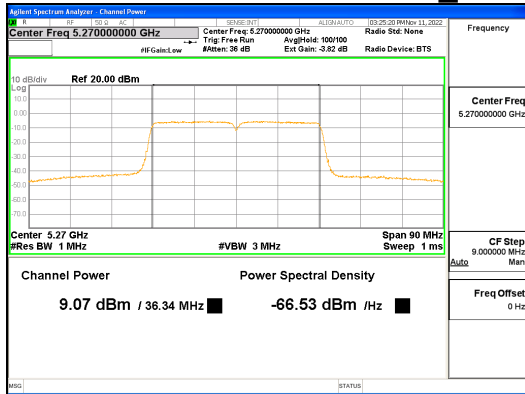


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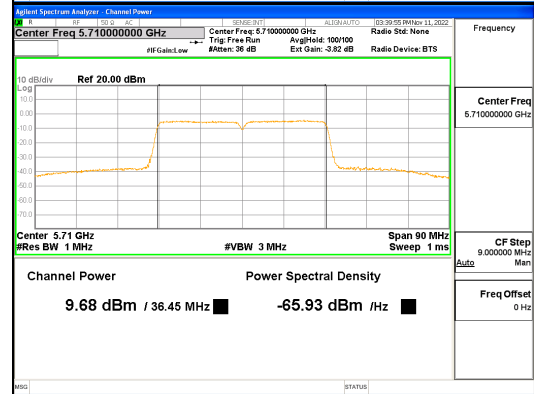
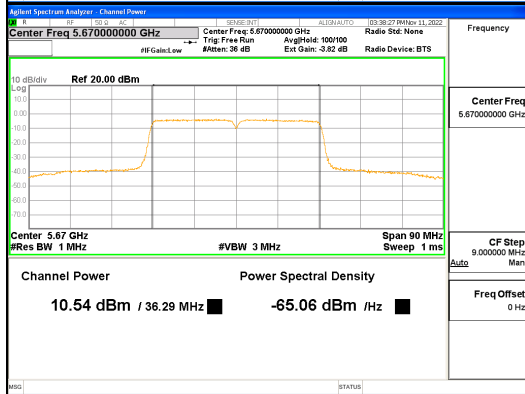
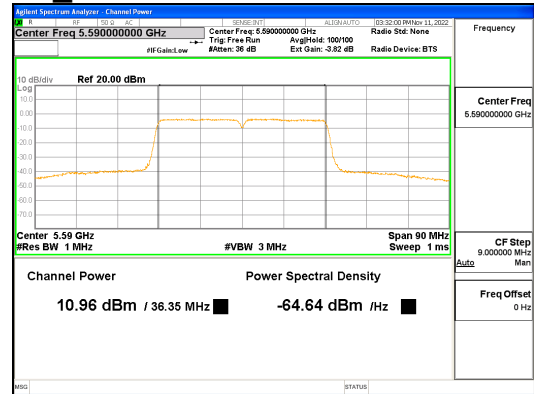
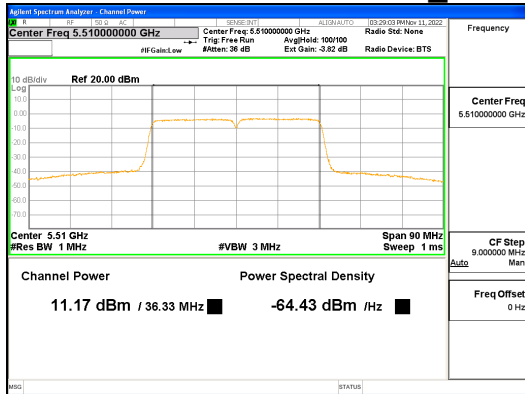
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ANT1_802.11ac_VHT40_UNII 1



ANT1_802.11ac_VHT40_UNII 2A

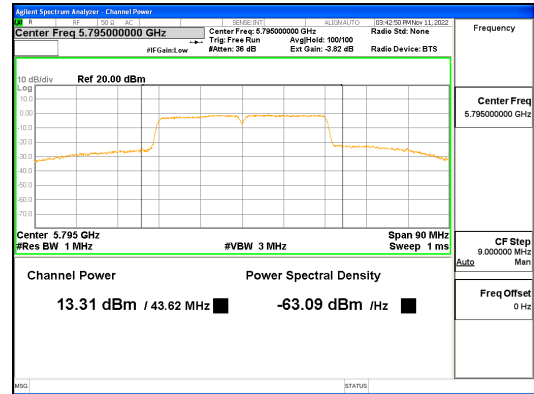
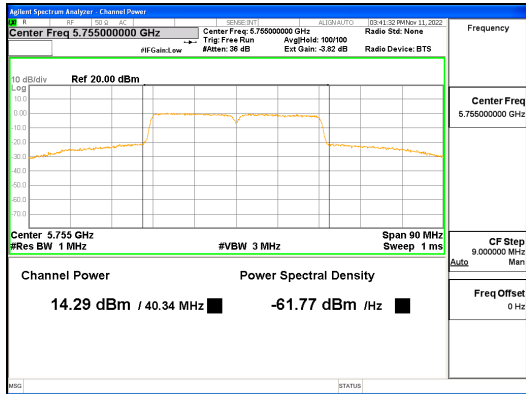


ANT1_802.11ac_VHT40_UNII 2C



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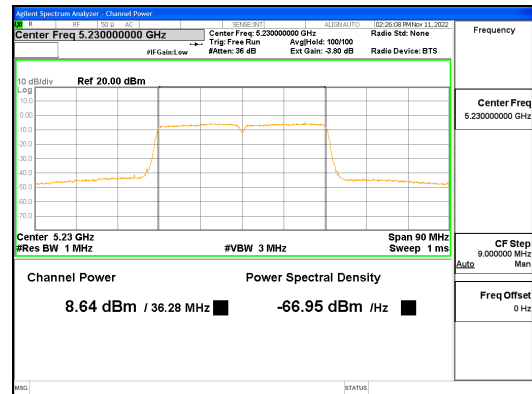
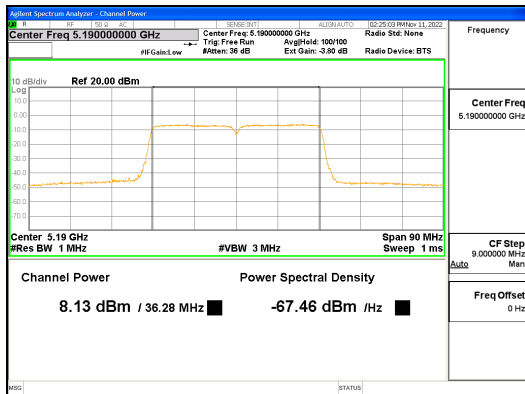


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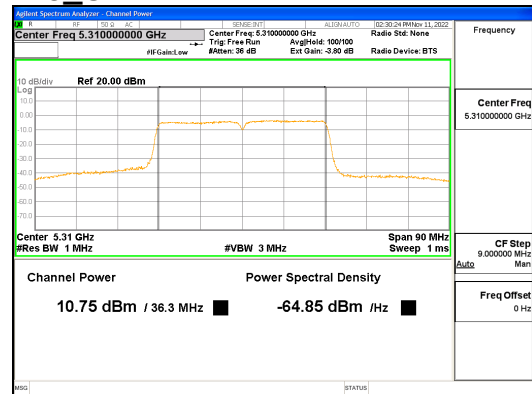
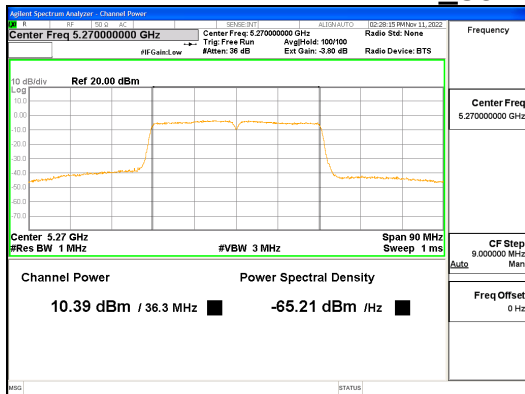


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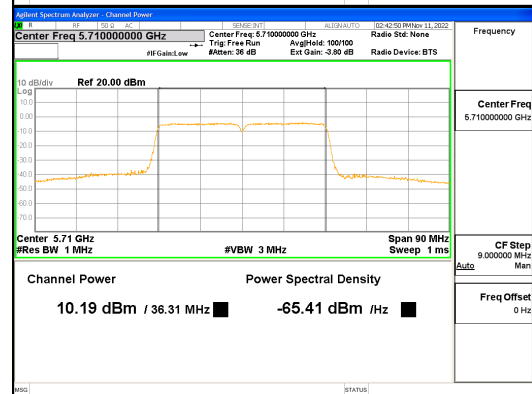
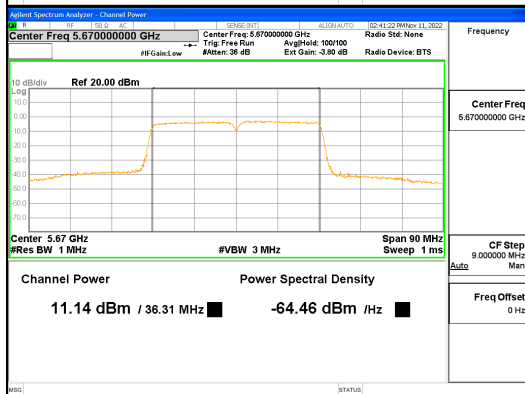
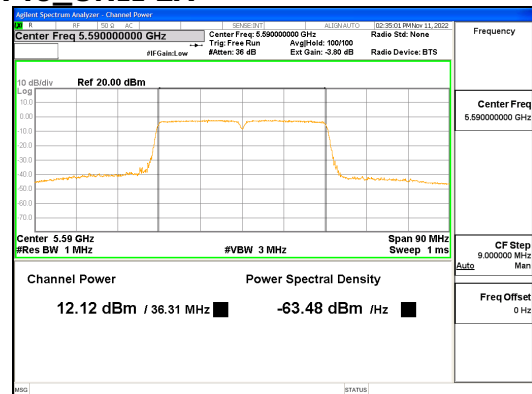
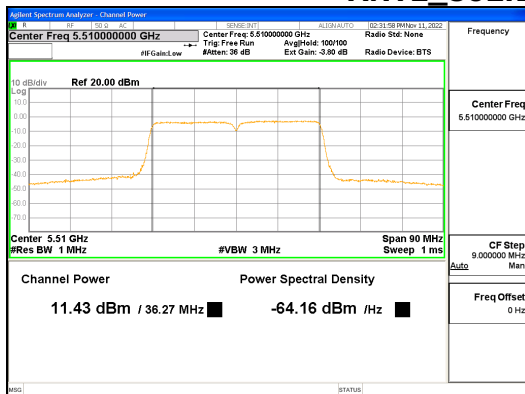
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ANT2_802.11ac_VHT40_UNII 2A

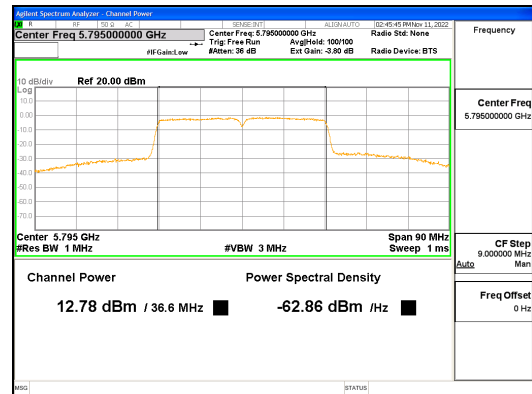
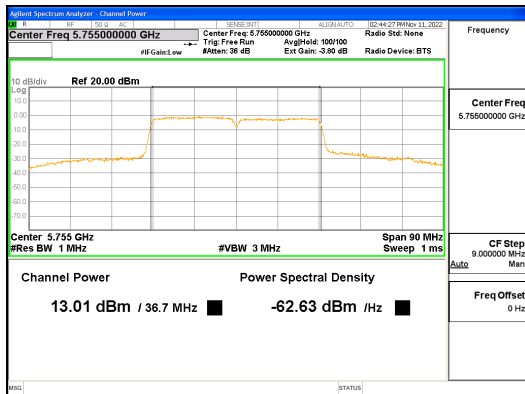


ANT2_802.11ac_VHT40_UNII 2C

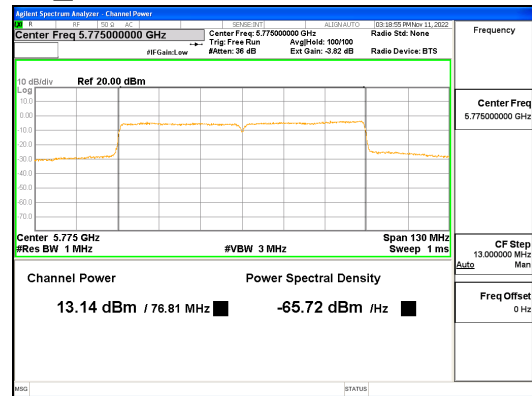
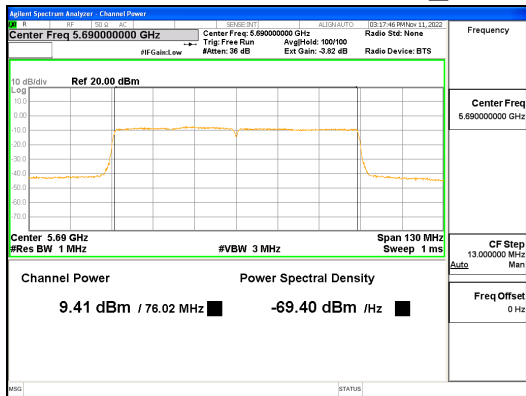
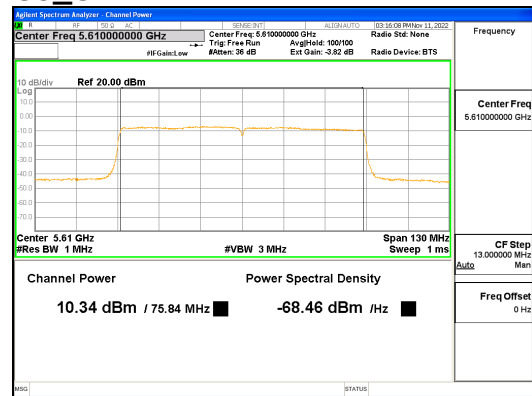
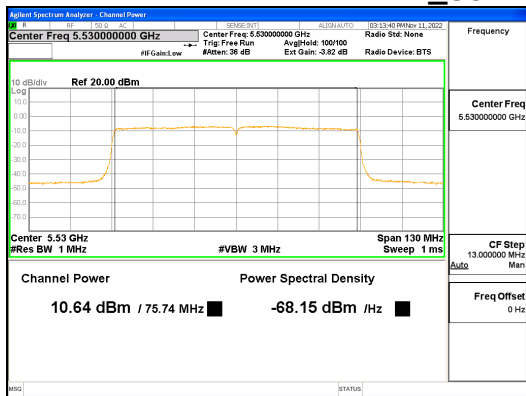
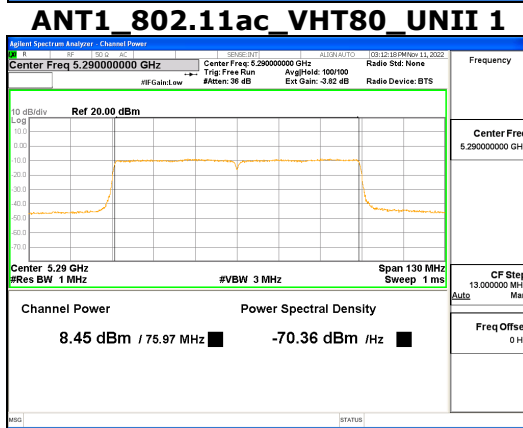
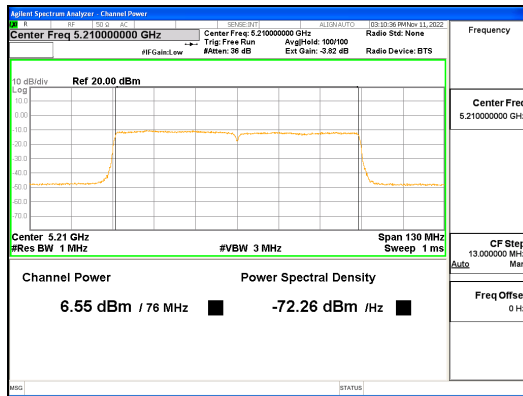


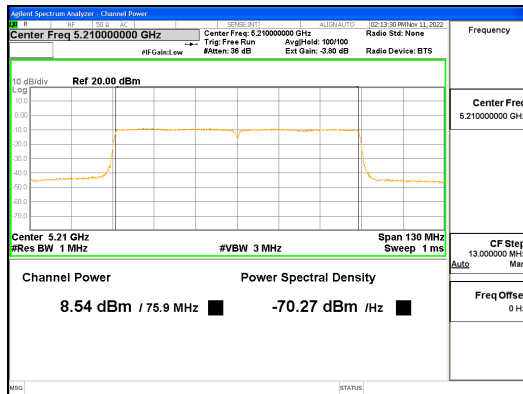
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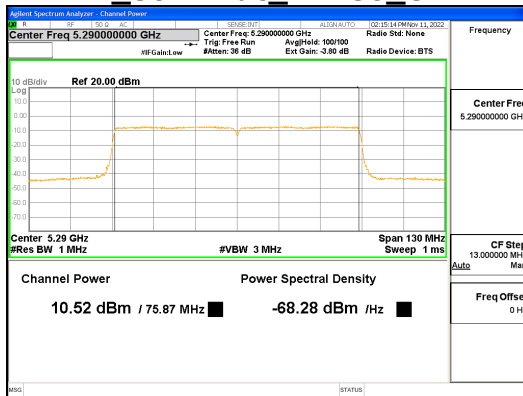


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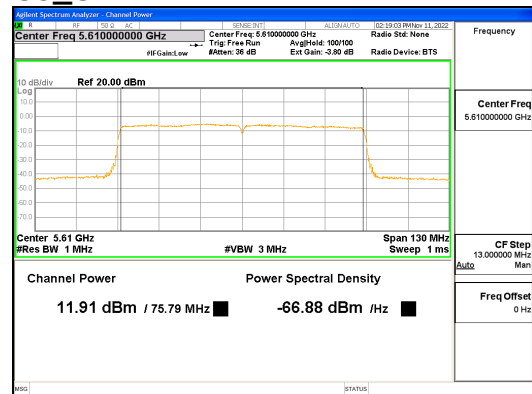
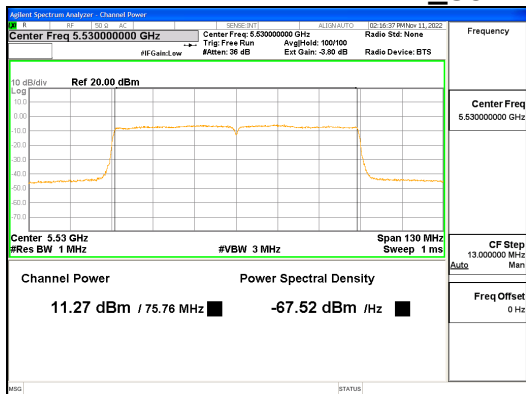




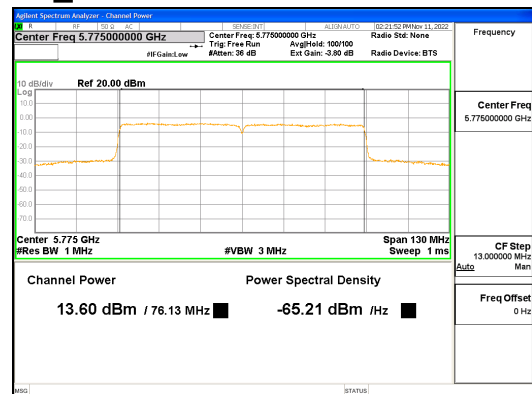
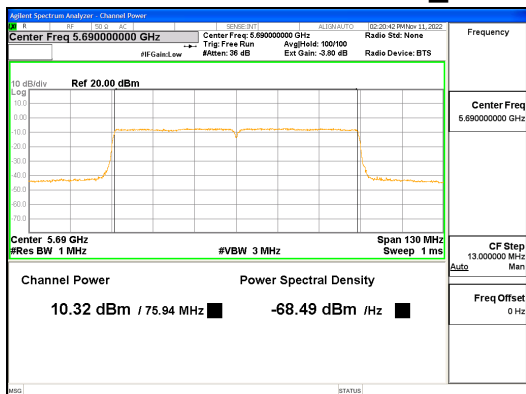
ANT2_802.11ac_VHT80_UNII 1



ANT2_802.11ac_VHT80_UNII 2A



ANT2_802.11ac_VHT80_UNII 2C



ANT2_802.11ac_VHT80_UNII 2C

ANT2_802.11ac_VHT80_UNII 3

4.4 Power Spectral Density

Test Procedures

KDB 789033 – Section F (Method SA-2, Maximum Power Spectral Density)
KDB 662911 D01, D02 (Multiple Transmitter Output)
ANSI C63.10-2013 – Section 12.5

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
- f) Duty cycle factor = $10\log(1/x)$

Test mode	Duty Cycle Factor
802.11a	0.65 dB
802.11n_HT20	2.21 dB
802.11n_HT40	2.55 dB
802.11ac_VHT20	2.12 dB
802.11ac_VHT40	2.46 dB
802.11ac_VHT80	2.35 dB
802.11ax HE20/40 26T	0.13 dB
802.11ax HE20/40 52T	0.12 dB
802.11ax HE20/40 106T	0.15 dB
802.11ax HE20/40 242T	0.29 dB
802.11ax HE40 484T	0.49 dB
802.11ax HE80 26T	0.14 dB
802.11ax HE80 52T	0.12 dB
802.11ax HE80 106T	0.20 dB
802.11ax HE80 242T	0.34 dB
802.11ax HE80 484T	0.27 dB
802.11ax HE80 996T	0.77 dB



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Limit

Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm)
SISO	ANT1, ANT2	0.82, 0.77	802.11a	UNII 1	11.00
				UNII 2A	11.00
				UNII 2C	11.00
				UNII 3	30.00
MIMO (2Tx)	ANT1 + ANT2	3.81	802.11n/ac/ax	UNII 1	11.00
				UNII 2A	11.00
				UNII 2C	11.00
				UNII 3	30.00

Test Data

ANT1

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	3.45	0.65	4.10	11.00	6.90
	5 200	3.08	0.65	3.73	11.00	7.27
	5 240	3.84	0.65	4.49	11.00	6.51
	5 260	5.86	0.65	6.51	11.00	4.49
	5 300	6.79	0.65	7.44	11.00	3.56
	5 320	7.10	0.65	7.75	11.00	3.25
	5 500	4.40	0.65	5.05	11.00	5.95
	5 600	3.75	0.65	4.40	11.00	6.60
	5 700	2.89	0.65	3.54	11.00	7.46
	5 720	2.96	0.65	3.61	11.00	7.39
	5 745	5.01	0.65	5.66	30.00	24.34
	5 785	3.78	0.65	4.43	30.00	25.57
	5 825	4.42	0.65	5.07	30.00	24.93
Measurement uncertainty		± 1.5 dB				

ANT2

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	3.58	0.65	4.23	11.00	6.77
	5 200	3.78	0.65	4.43	11.00	6.57
	5 240	4.50	0.65	5.15	11.00	5.85
	5 260	7.78	0.65	8.43	11.00	2.57
	5 300	7.44	0.65	8.09	11.00	2.91
	5 320	7.79	0.65	8.44	11.00	2.56
	5 500	4.55	0.65	5.20	11.00	5.80
	5 600	5.18	0.65	5.83	11.00	5.17
	5 700	3.75	0.65	4.40	11.00	6.60
	5 720	3.11	0.65	3.76	11.00	7.24
	5 745	5.62	0.65	6.27	30.00	23.73
	5 785	3.42	0.65	4.07	30.00	25.93
	5 825	3.88	0.65	4.53	30.00	25.47
Measurement uncertainty		± 1.5 dB				

ANT1 + ANT2

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	2.15	2.21	4.36	11.00	6.64
	5 200	2.36	2.21	4.57	11.00	6.43
	5 240	3.12	2.21	5.33	11.00	5.67
	5 260	6.81	2.21	9.02	11.00	1.98
	5 300	6.69	2.21	8.90	11.00	2.10
	5 320	7.37	2.21	9.58	11.00	1.42
	5 500	7.46	2.21	9.67	11.00	1.33
	5 600	7.45	2.21	9.66	11.00	1.34
	5 700	5.93	2.21	8.14	11.00	2.86
	5 720	5.89	2.21	8.10	11.00	2.90
	5 745	6.66	2.21	8.87	30.00	21.13
	5 785	5.72	2.21	7.93	30.00	22.07
	5 825	6.52	2.21	8.73	30.00	21.27
802.11ac _VHT20	5 180	2.55	2.12	4.67	11.00	6.33
	5 200	2.21	2.12	4.33	11.00	6.67
	5 240	3.18	2.12	5.30	11.00	5.70
	5 260	7.44	2.12	9.56	11.00	1.44
	5 300	7.35	2.12	9.47	11.00	1.53
	5 320	7.77	2.12	9.89	11.00	1.11
	5 500	7.49	2.12	9.61	11.00	1.39
	5 600	7.32	2.12	9.44	11.00	1.56
	5 700	5.95	2.12	8.07	11.00	2.93
	5 720	5.46	2.12	7.58	11.00	3.42
	5 745	6.76	2.12	8.88	30.00	21.12
	5 785	5.70	2.12	7.82	30.00	22.18
	5 825	6.14	2.12	8.26	30.00	21.74
802.11n _HT40	5 190	-2.98	2.55	-0.43	11.00	11.43
	5 230	-2.96	2.55	-0.41	11.00	11.41
	5 270	-2.18	2.55	0.37	11.00	10.63
	5 310	-1.50	2.55	1.05	11.00	9.95
	5 510	-1.12	2.55	1.43	11.00	9.57
	5 590	-0.78	2.55	1.77	11.00	9.23
	5 670	-1.28	2.55	1.27	11.00	9.73
	5 710	-2.27	2.55	0.28	11.00	10.72



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	5 755	-0.39	2.55	2.16	30.00	27.84
	5 795	-0.60	2.55	1.95	30.00	28.05
802.11ac _VHT40	5 190	-3.58	2.46	-1.12	11.00	12.12
	5 230	-3.06	2.46	-0.60	11.00	11.60
	5 270	-1.46	2.46	1.00	11.00	10.00
	5 310	-0.63	2.46	1.83	11.00	9.17
	5 510	-0.05	2.46	2.41	11.00	8.59
	5 590	0.22	2.46	2.68	11.00	8.32
	5 670	-0.43	2.46	2.03	11.00	8.97
	5 710	-1.39	2.46	1.07	11.00	9.93
	5 755	0.50	2.46	2.96	30.00	27.04
	5 795	-0.87	2.46	1.59	30.00	28.41
802.11ac _VHT80	5 210	-6.74	2.35	-4.39	11.00	15.39
	5 290	-4.65	2.35	-2.30	11.00	13.30
	5 530	-3.06	2.35	-0.71	11.00	11.71
	5 610	-3.08	2.35	-0.73	11.00	11.73
	5 690	-4.15	2.35	-1.80	11.00	12.80
	5 775	-3.46	2.35	-1.11	30.00	31.11
Measurement uncertainty		± 1.5 dB				



Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _26T	5 180	5.09	0.13	5.22	11.00	5.78
	5 200	4.82	0.13	4.95	11.00	6.05
	5 240	4.69	0.13	4.82	11.00	6.18
	5 260	5.97	0.13	6.10	11.00	4.90
	5 300	5.69	0.13	5.82	11.00	5.18
	5 320	6.69	0.13	6.82	11.00	4.18
	5 500	7.55	0.13	7.68	11.00	3.32
	5 600	6.59	0.13	6.72	11.00	4.28
	5 700	4.03	0.13	4.16	11.00	6.84
	5 720	4.00	0.13	4.13	11.00	6.87
	5 745	9.12	0.13	9.25	30.00	20.75
	5 785	8.71	0.13	8.84	30.00	21.16
	5 825	10.23	0.13	10.36	30.00	19.64
802.11ax _HE20 _242T	5 180	-3.68	0.29	-3.39	11.00	14.39
	5 200	-3.59	0.29	-3.30	11.00	14.30
	5 240	-4.16	0.29	-3.87	11.00	14.87
	5 260	-2.49	0.29	-2.20	11.00	13.20
	5 300	-2.82	0.29	-2.53	11.00	13.53
	5 320	-2.01	0.29	-1.72	11.00	12.72
	5 500	-1.20	0.29	-0.91	11.00	11.91
	5 600	-2.53	0.29	-2.24	11.00	13.24
	5 700	-5.01	0.29	-4.72	11.00	15.72
	5 720	-4.51	0.29	-4.22	11.00	15.22
	5 745	0.52	0.29	0.81	30.00	29.19
	5 785	-0.02	0.29	0.27	30.00	29.73
	5 825	1.43	0.29	1.72	30.00	28.28
802.11ax _HE40 _26T	5 190	4.67	0.13	4.80	11.00	6.20
	5 230	4.39	0.13	4.52	11.00	6.48
	5 270	8.23	0.13	8.36	11.00	2.64
	5 310	7.59	0.13	7.72	11.00	3.28
	5 510	9.80	0.13	9.93	11.00	1.07
	5 590	9.10	0.13	9.23	11.00	1.77
	5 670	6.95	0.13	7.08	11.00	3.92
	5 710	6.30	0.13	6.43	11.00	4.57
	5 755	10.44	0.13	10.57	30.00	19.43

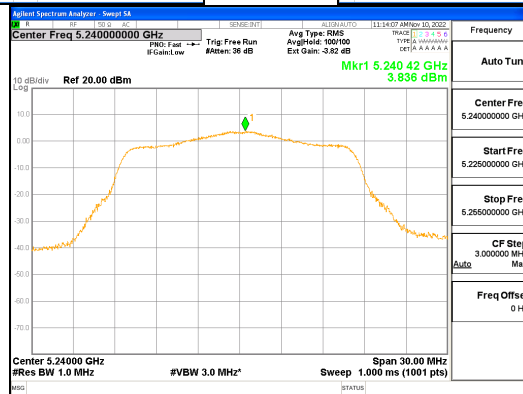
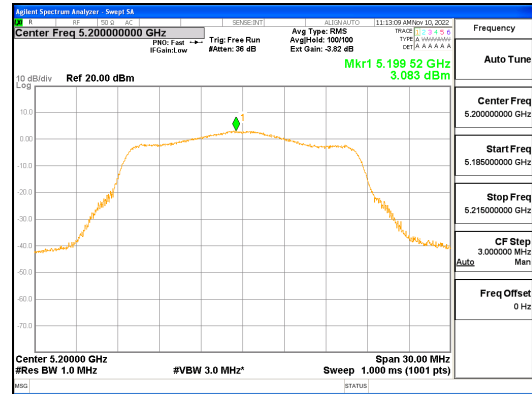
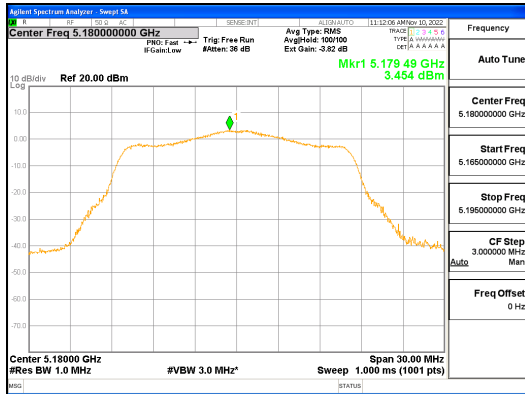


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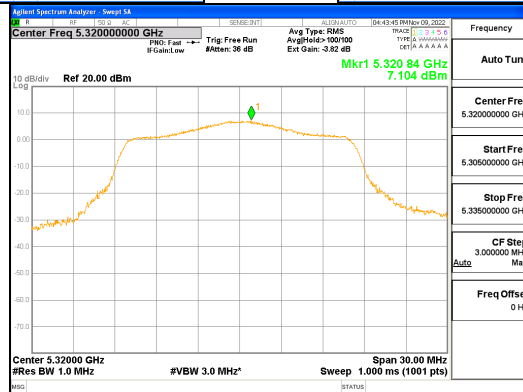
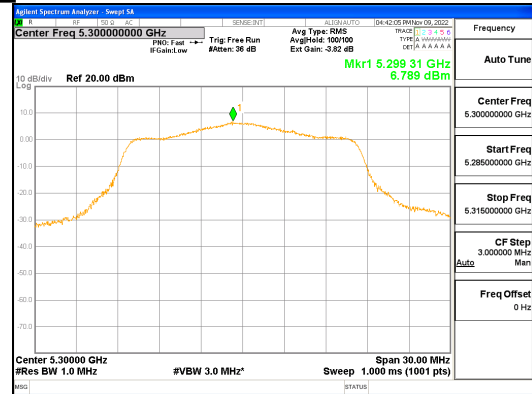
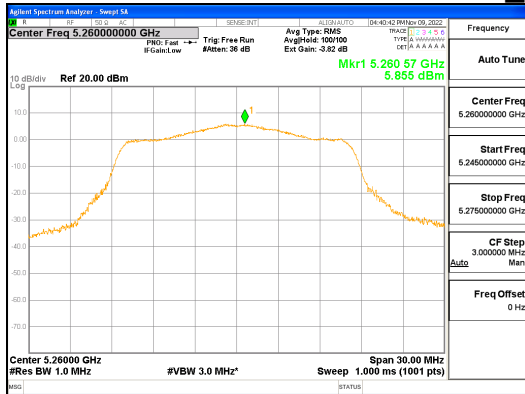
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	5 230	-7.31	0.49	-6.82	11.00	17.82
	5 270	-3.82	0.49	-3.33	11.00	14.33
	5 310	-3.21	0.49	-2.72	11.00	13.72
	5 510	-1.54	0.49	-1.05	11.00	12.05
	5 590	-2.87	0.49	-2.38	11.00	13.38
	5 670	-4.46	0.49	-3.97	11.00	14.97
	5 710	-5.17	0.49	-4.68	11.00	15.68
	5 755	-1.83	0.49	-1.34	30.00	31.34
	5 795	-2.49	0.49	-2.00	30.00	32.00
802.11ax _HE80 _26T	5 210	4.58	0.14	4.72	24.00	19.28
	5 290	8.30	0.14	8.44	24.00	15.56
	5 530	8.85	0.14	8.99	24.00	15.01
	5 610	7.51	0.14	7.65	24.00	16.35
	5 690	5.75	0.14	5.89	24.00	18.11
	5 775	7.46	0.14	7.60	30.00	22.40
802.11ax _HE80 _996T	5 210	-9.42	0.77	-8.65	11.00	19.65
	5 290	-6.58	0.77	-5.81	11.00	16.81
	5 530	-5.56	0.77	-4.79	11.00	15.79
	5 610	-7.20	0.77	-6.43	11.00	17.43
	5 690	-8.76	0.77	-7.99	11.00	18.99
	5 775	-7.47	0.77	-6.70	30.00	36.70
Measurement uncertainty		± 1.5 dB				

See next pages for actual measured spectrum plots.



ANT1_802.11a_UNII 1

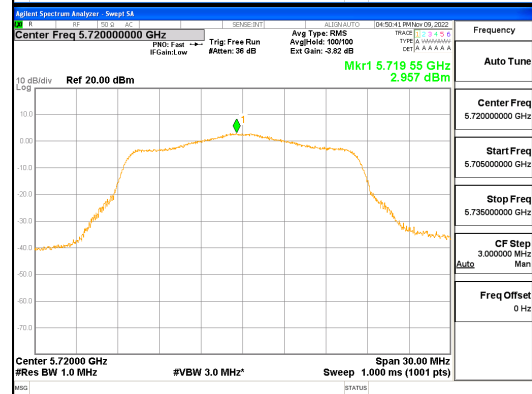
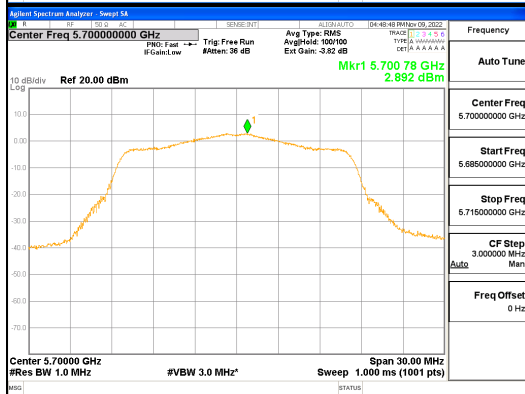
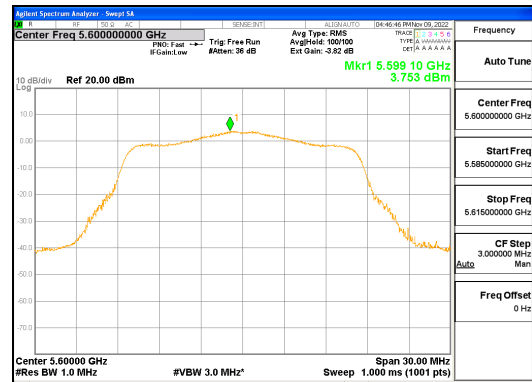
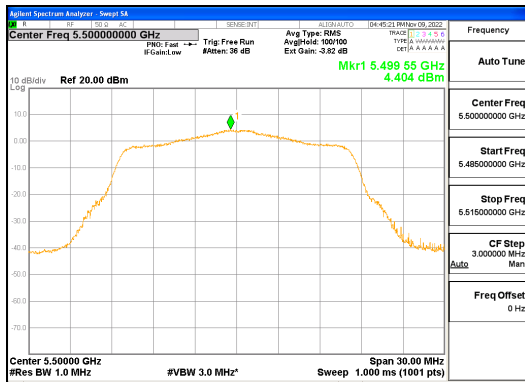


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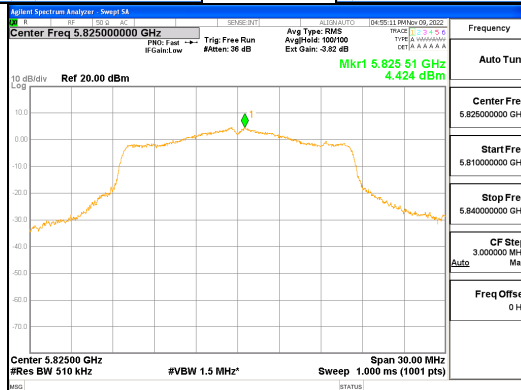
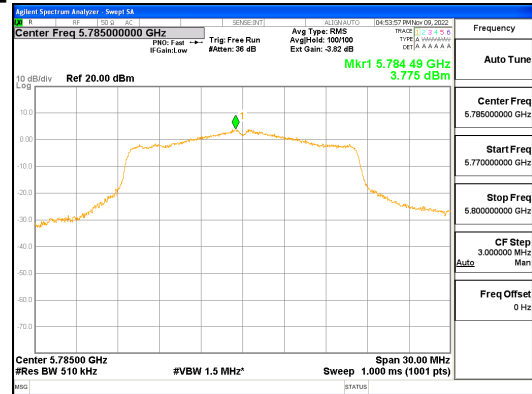
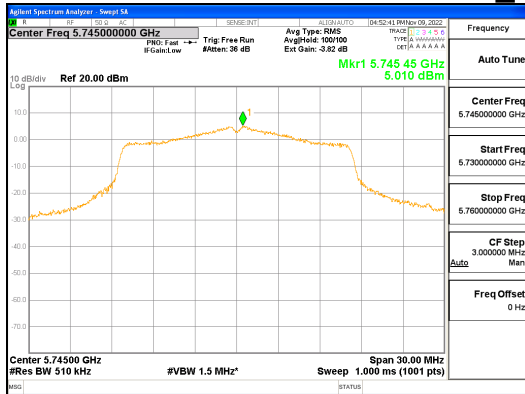


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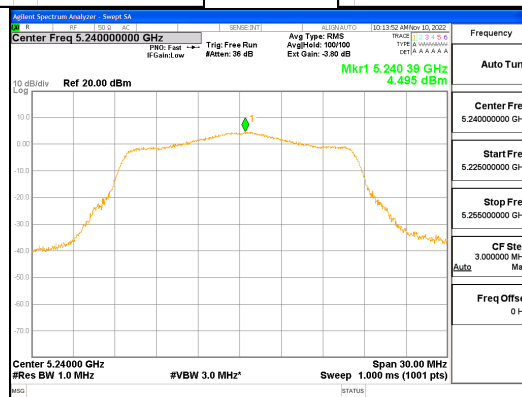
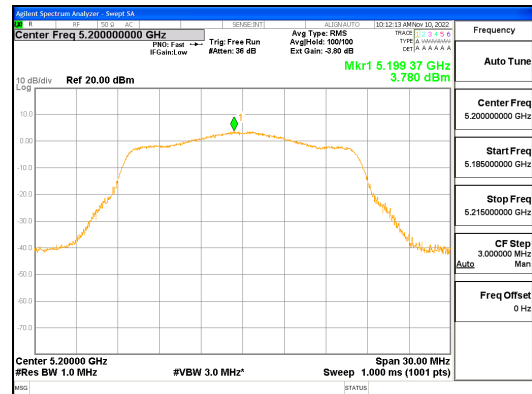
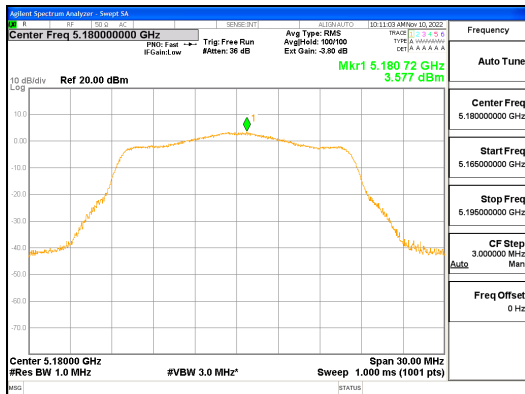
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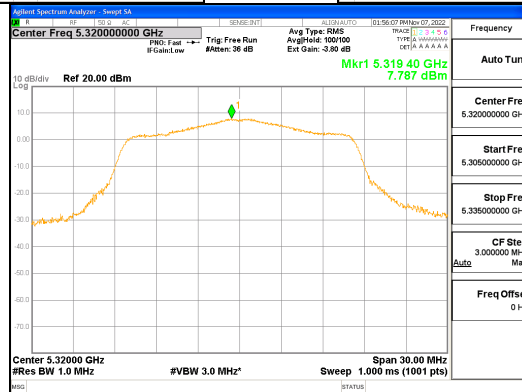
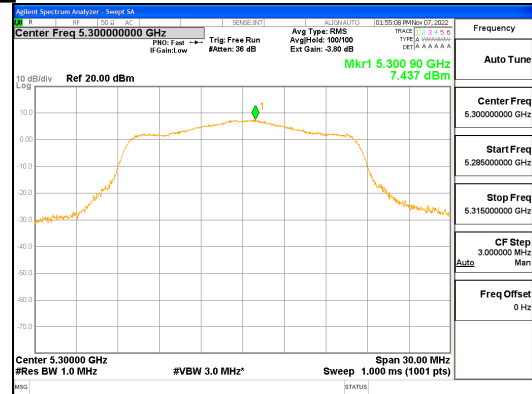
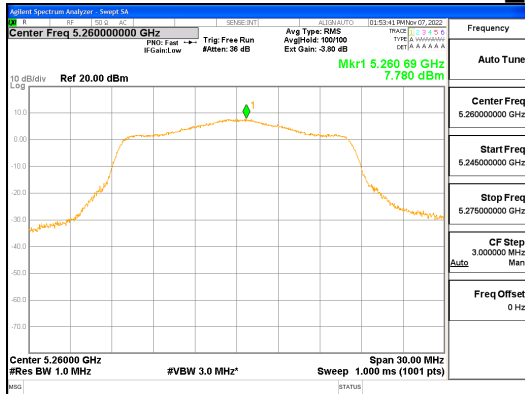
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ANT1_802.11a_UNII 3



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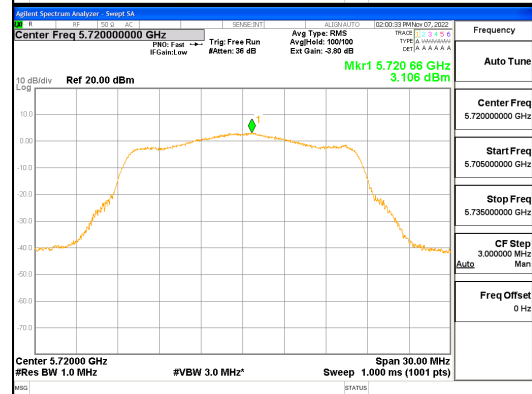
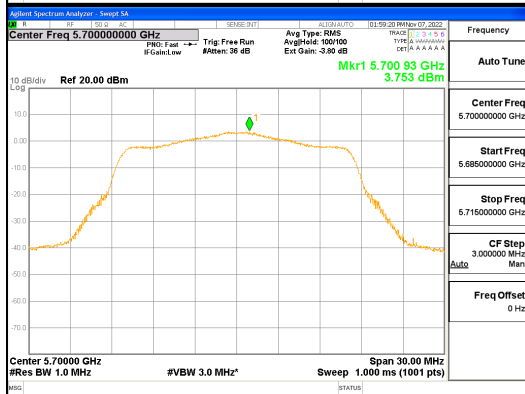
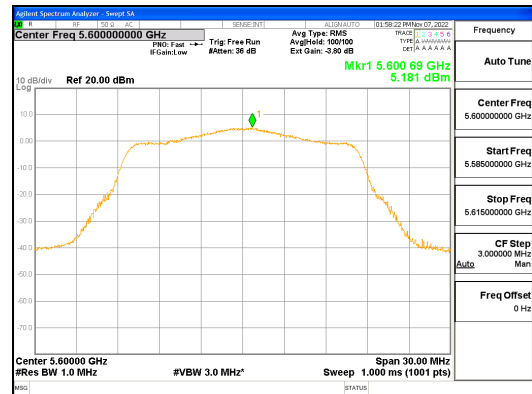
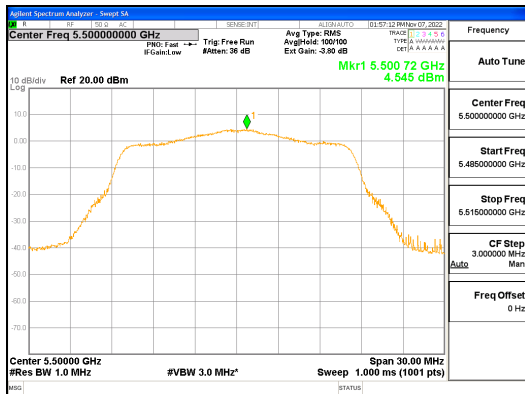


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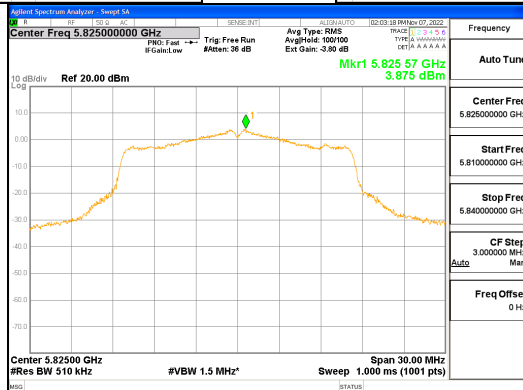
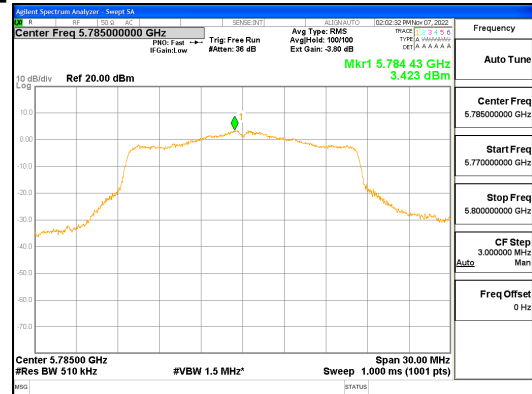
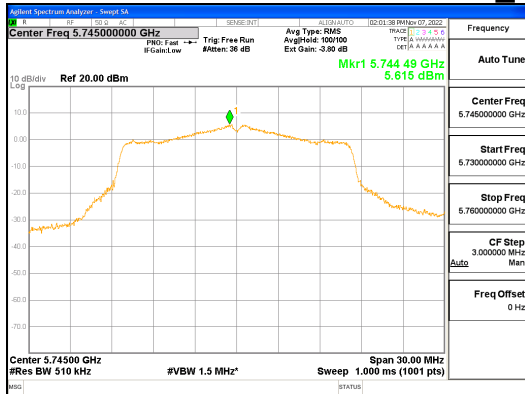


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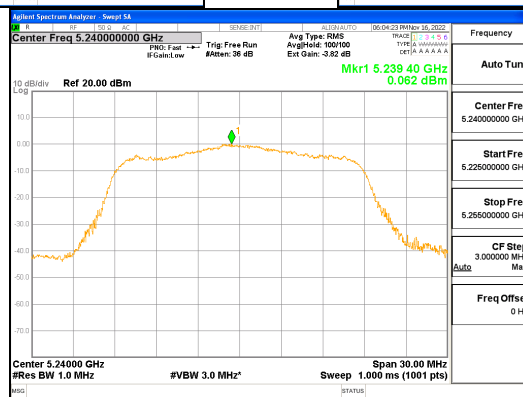
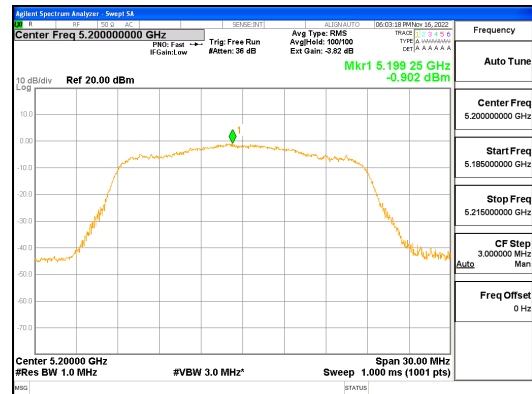
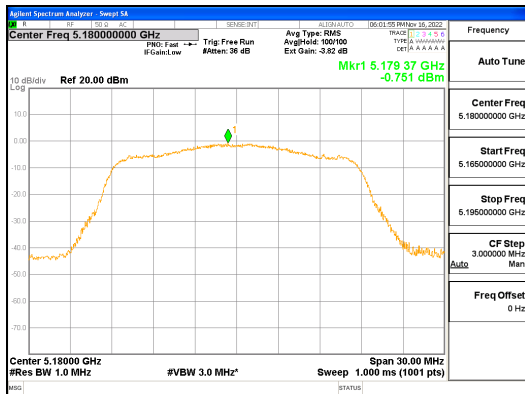
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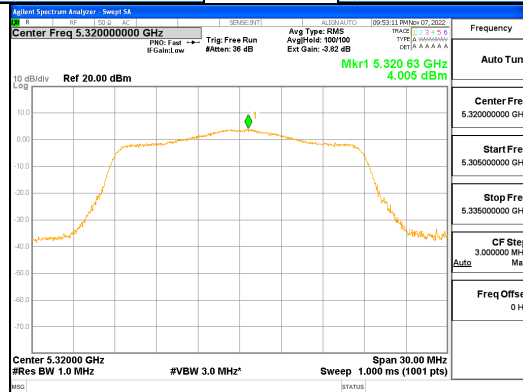
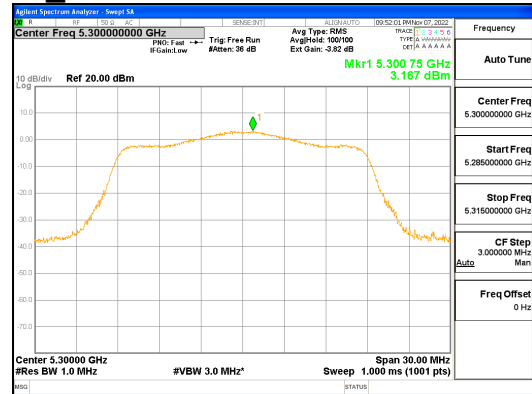
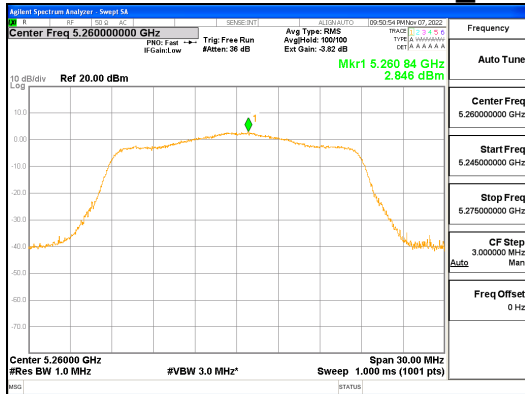
ANT2_802.11a_UNII 2C



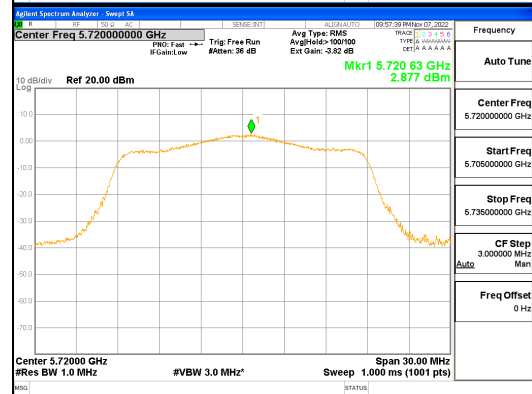
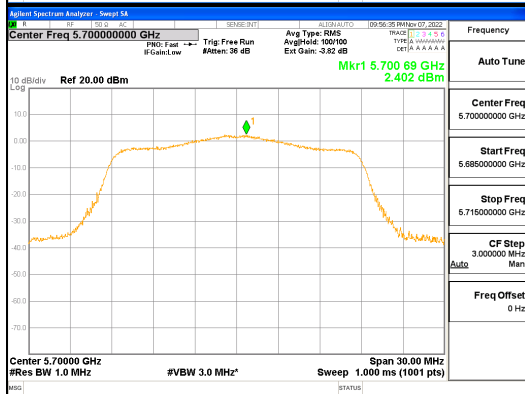
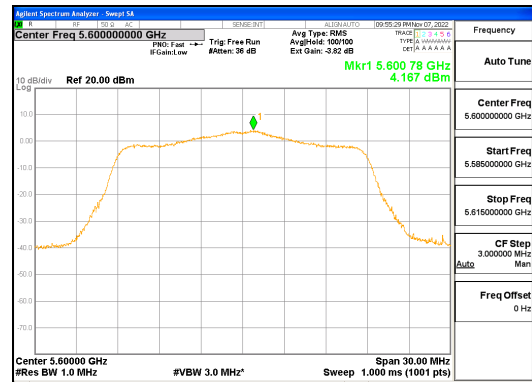
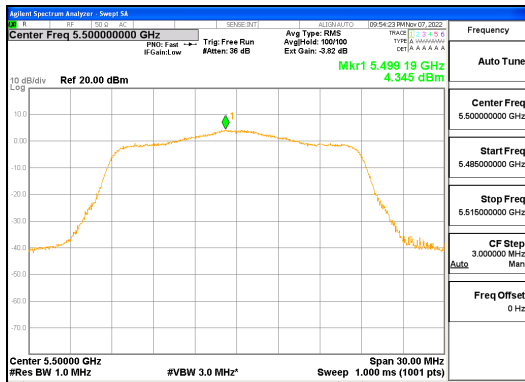
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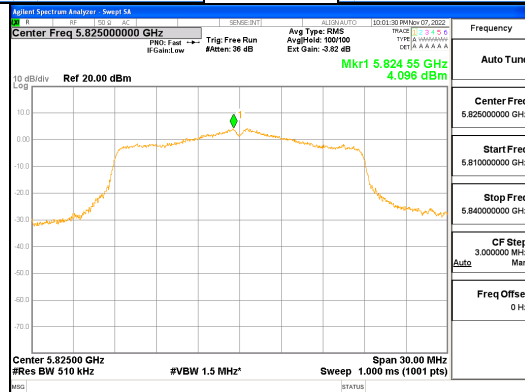
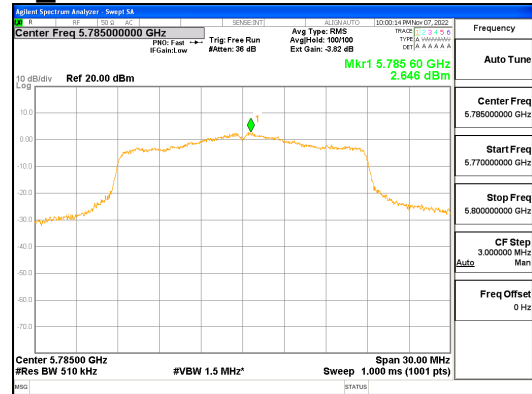
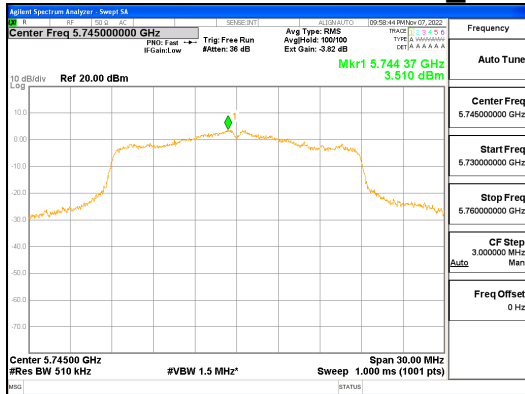
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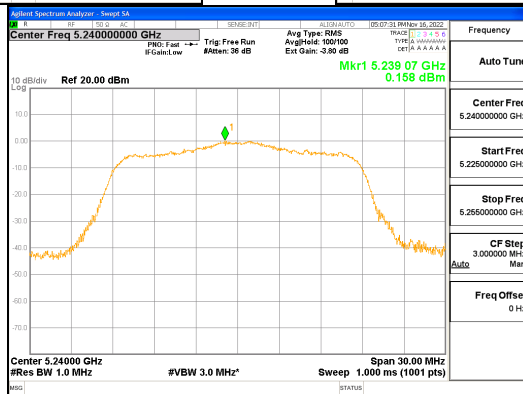
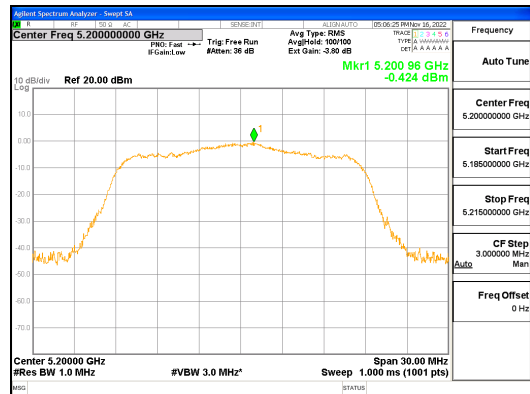
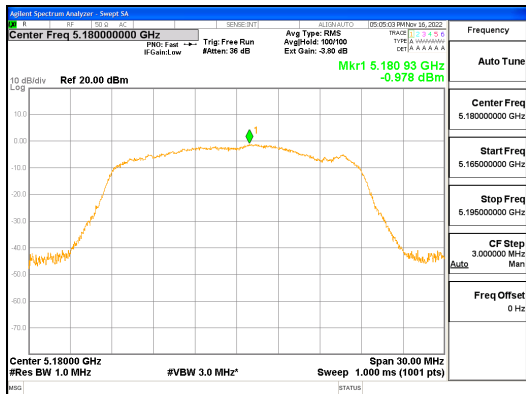
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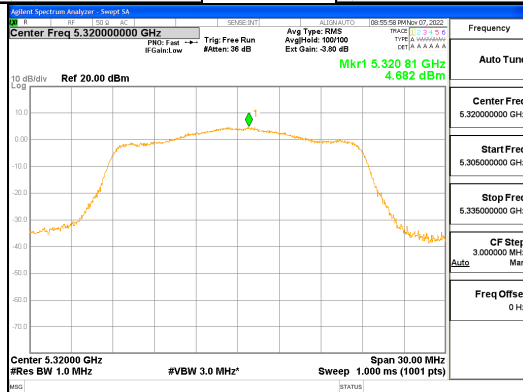
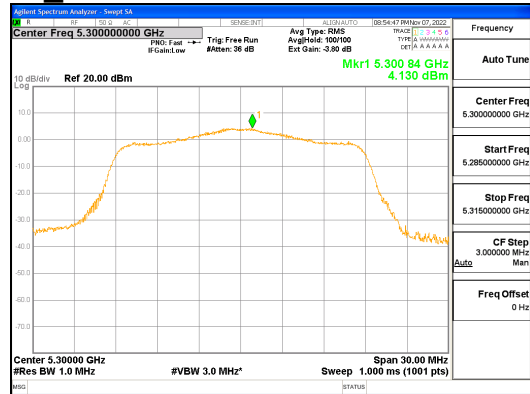
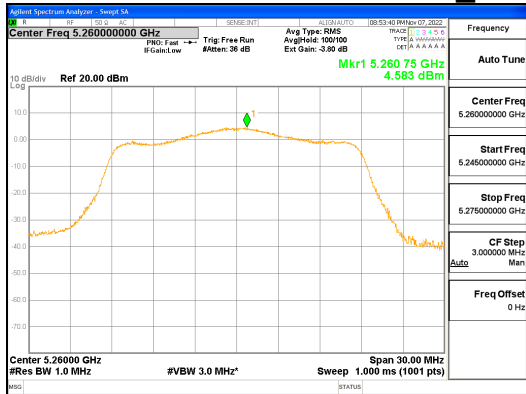
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ANT1_802.11n_HT20_UNII 3



ANT2_802.11n_HT20_UNII 1

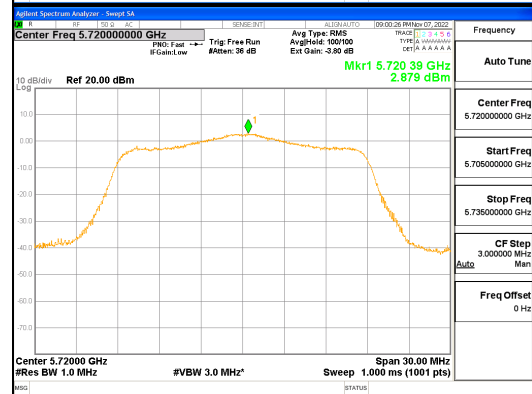
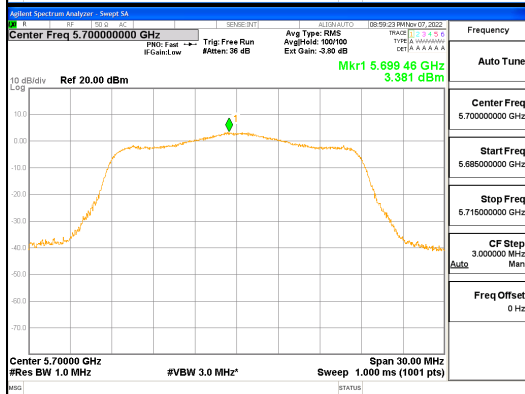
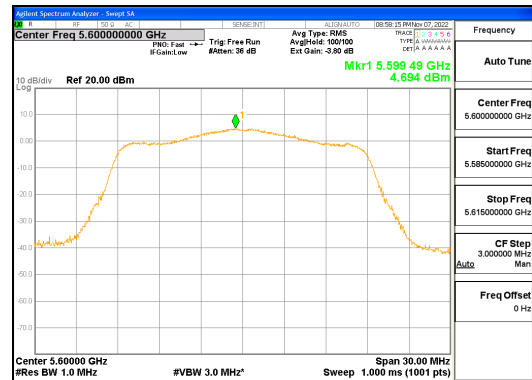
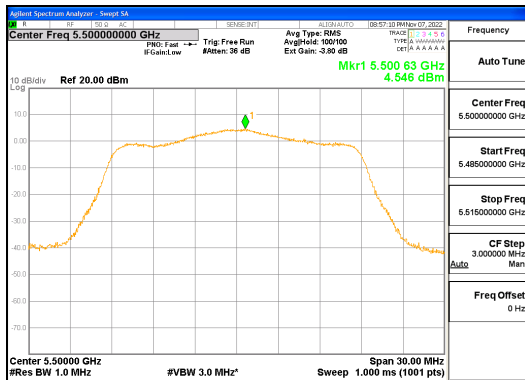


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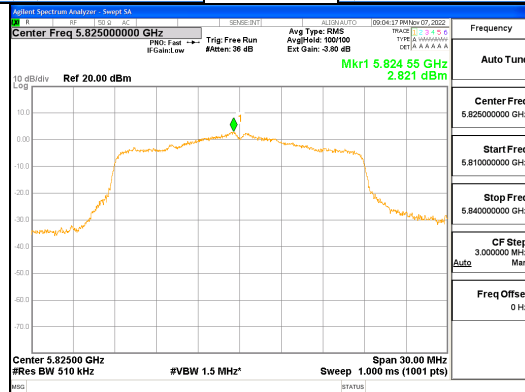
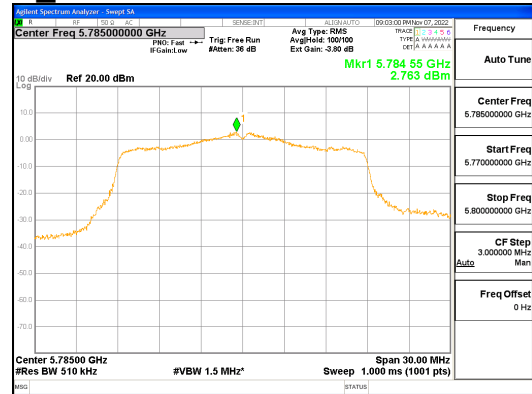
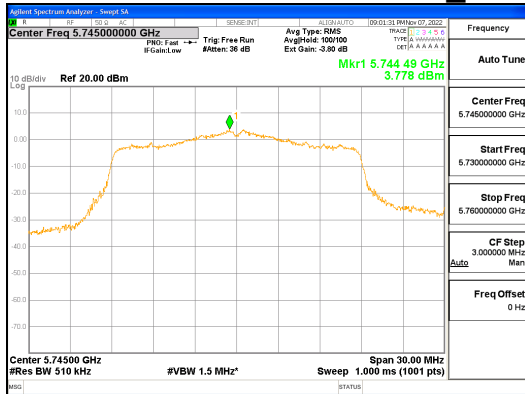


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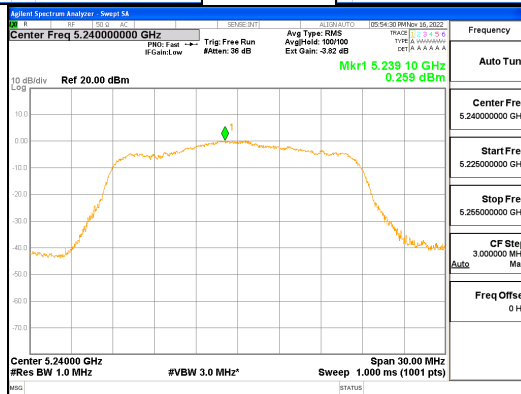
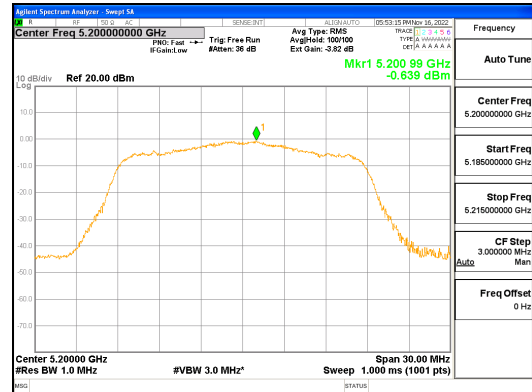
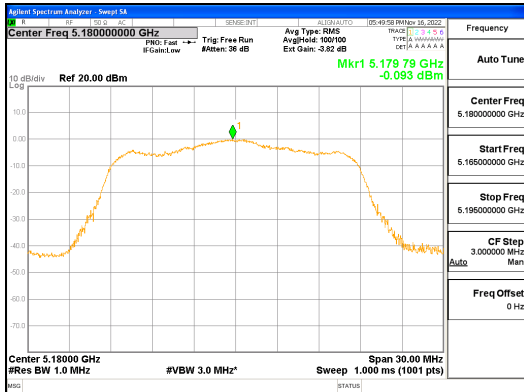
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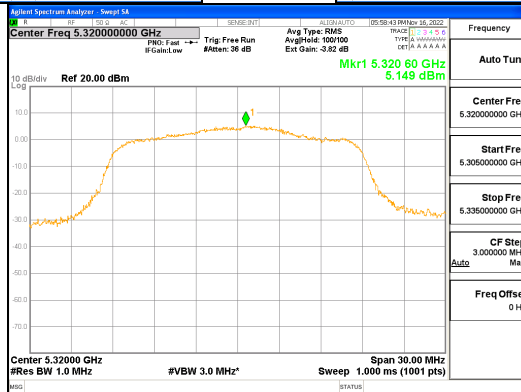
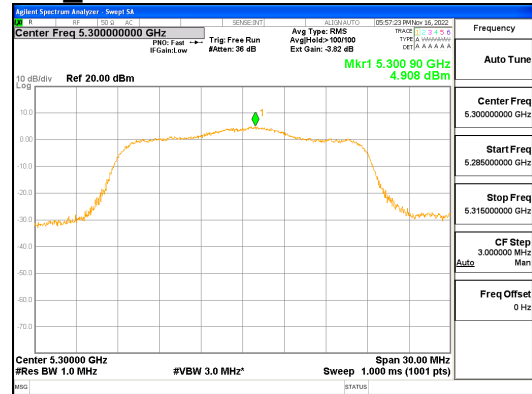
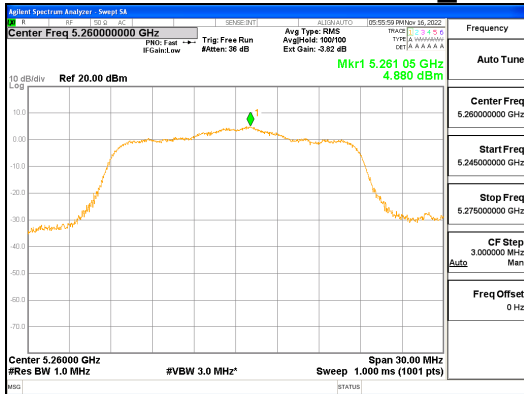
ANT2_802.11n_HT20_UNII 2C



ANT2_802.11n_HT20_UNII 3



ANT1_802.11ac_VHT20_UNII 1

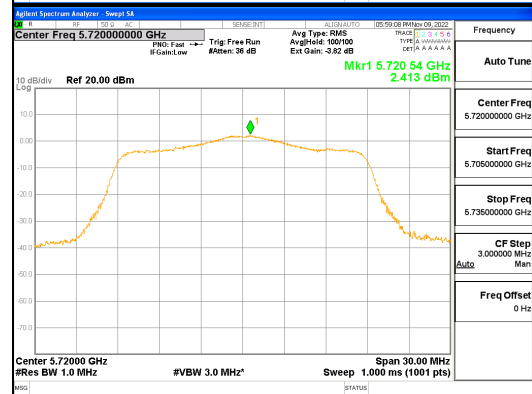
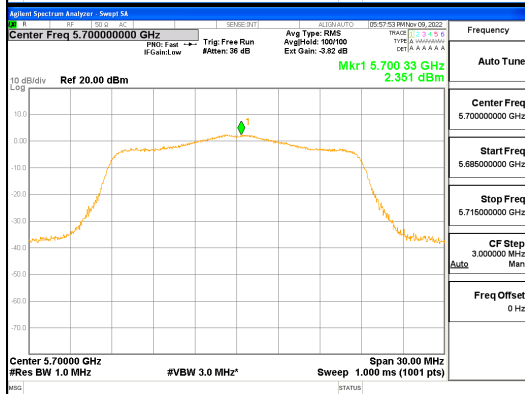
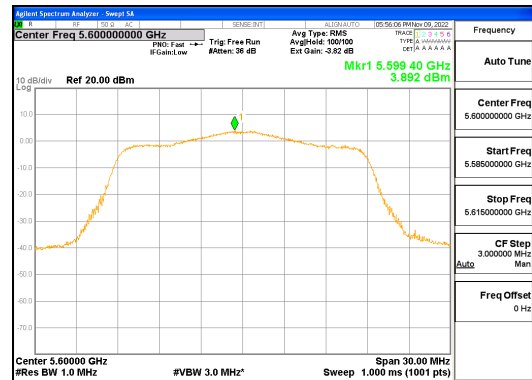
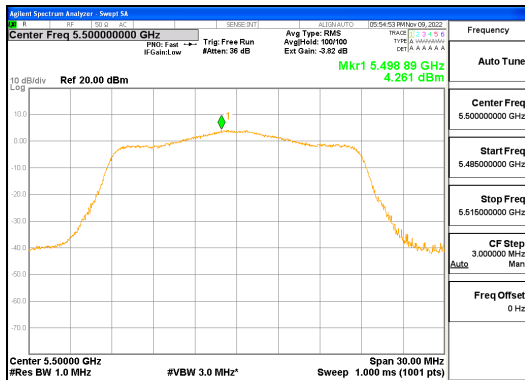


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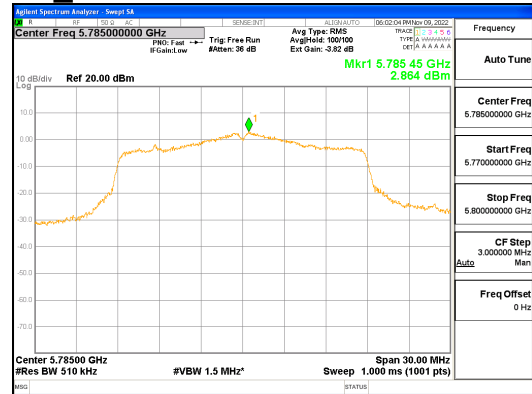
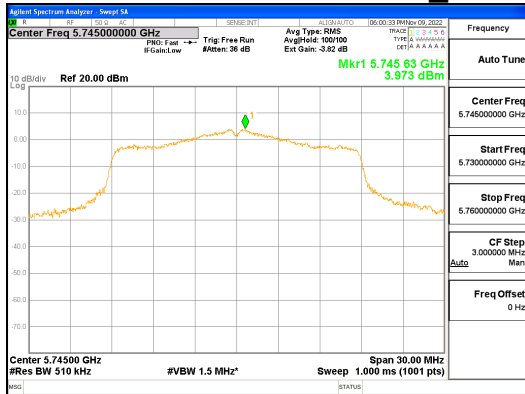


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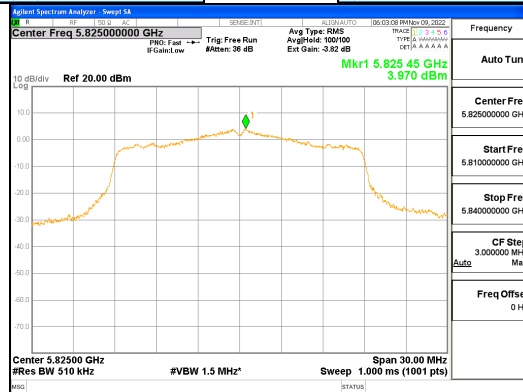
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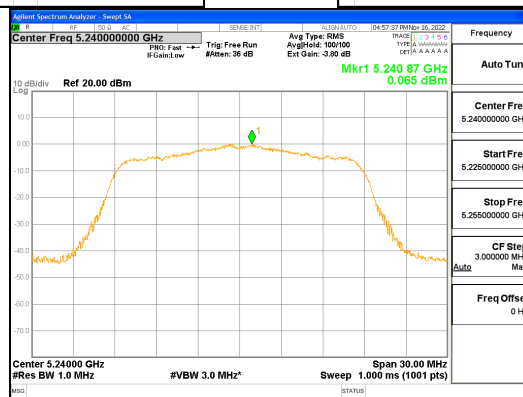
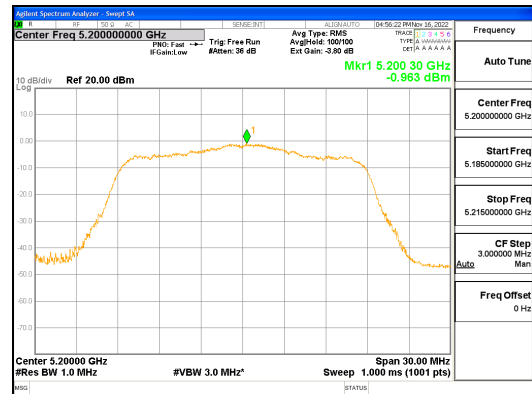
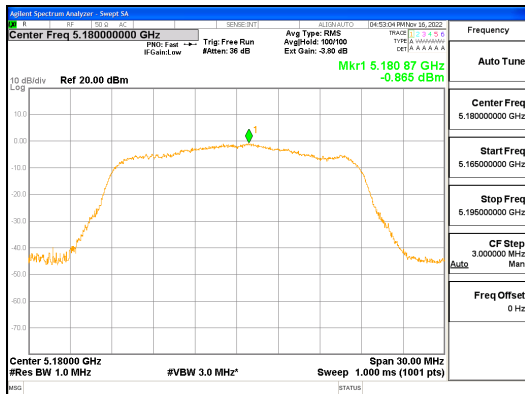
ANT1_802.11ac_VHT20_UNII 3



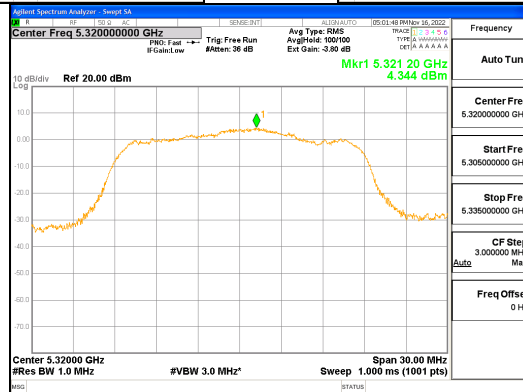
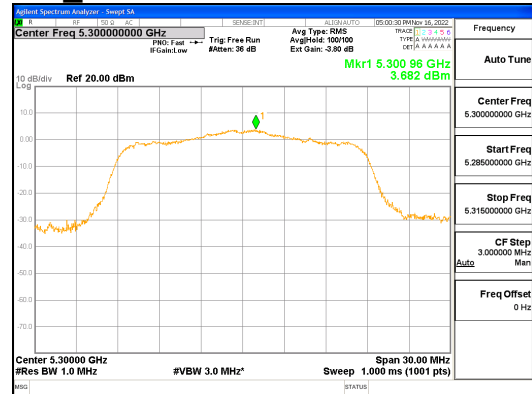
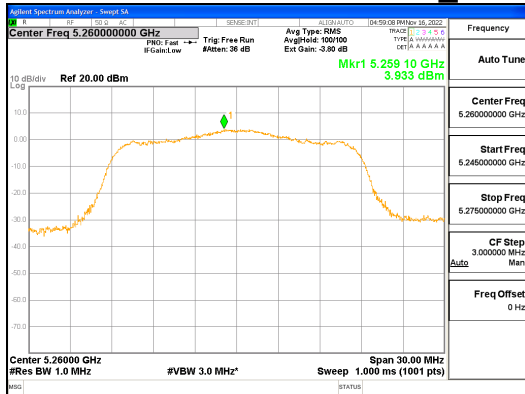


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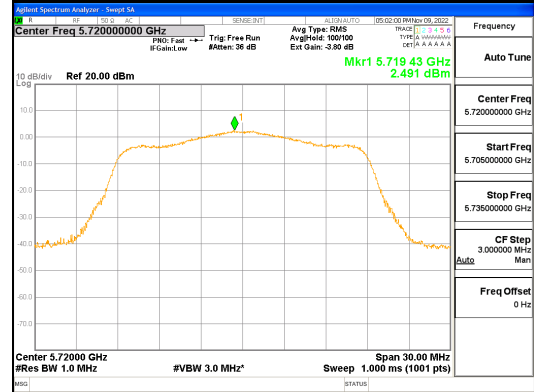
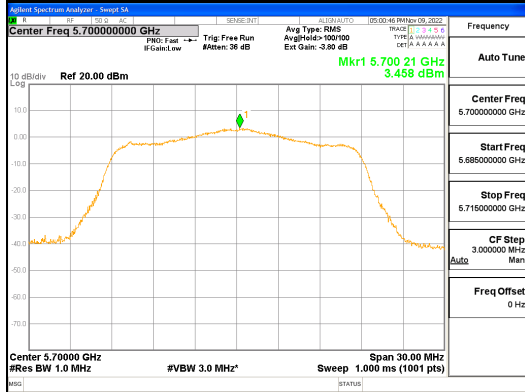
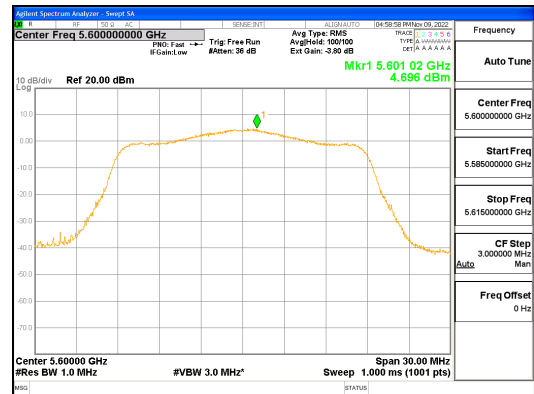
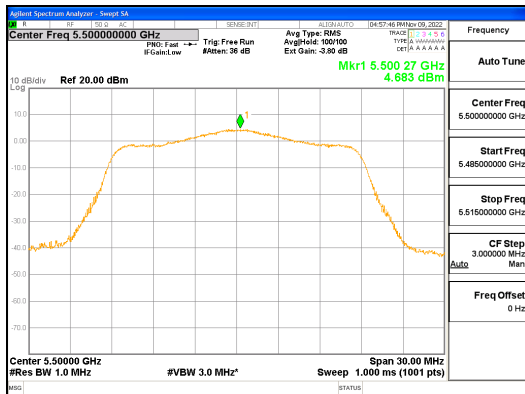


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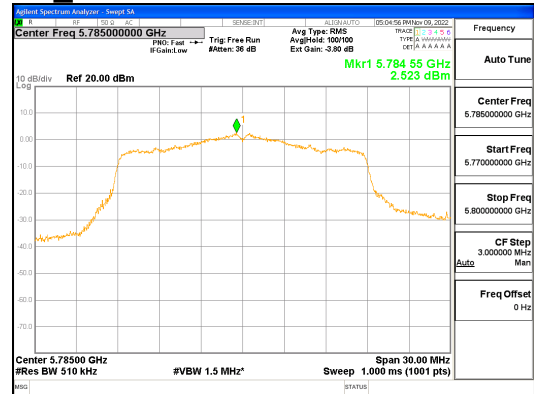
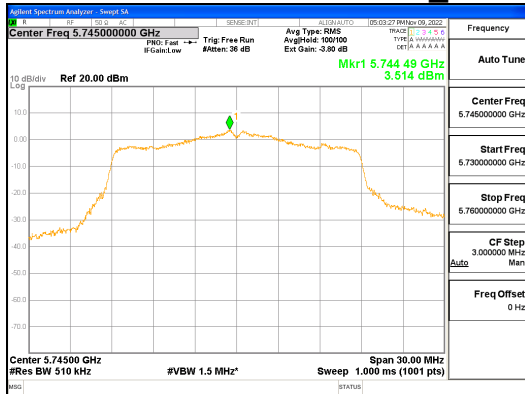


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