

Measurement Data

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.27	≤24	PASS
		5200	11.84	≤24	PASS
		5240	11.06	≤24	PASS
		5745	12.24	≤30.00	PASS
		5785	10.17	≤30.00	PASS
		5825	9.50	≤30.00	PASS
11N20SISO	Ant1	5180	13.10	≤24	PASS
		5200	11.74	≤24	PASS
		5240	10.97	≤24	PASS
		5745	12.24	≤30.00	PASS
		5785	10.33	≤30.00	PASS
		5825	9.43	≤30.00	PASS
11A	Ant2	5180	9.74	≤24	PASS
		5200	7.22	≤24	PASS
		5240	5.67	≤24	PASS
		5745	9.40	≤30.00	PASS
		5785	6.88	≤30.00	PASS
		5825	6.85	≤30.00	PASS
11N20SISO	Ant2	5180	9.42	≤24	PASS
		5200	8.52	≤24	PASS
		5240	6.20	≤24	PASS
		5745	9.72	≤30.00	PASS
		5785	7.43	≤30.00	PASS
		5825	6.43	≤30.00	PASS
Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11N20MIMO	Ant1+Ant2	5180	14.65	≤24	PASS
		5200	13.43	≤24	PASS
		5240	12.22	≤24	PASS
		5745	14.17	≤30.00	PASS
		5785	12.13	≤30.00	PASS
		5825	11.19	≤30.00	PASS

Appendix C): Maximum Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Test Procedure:

For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

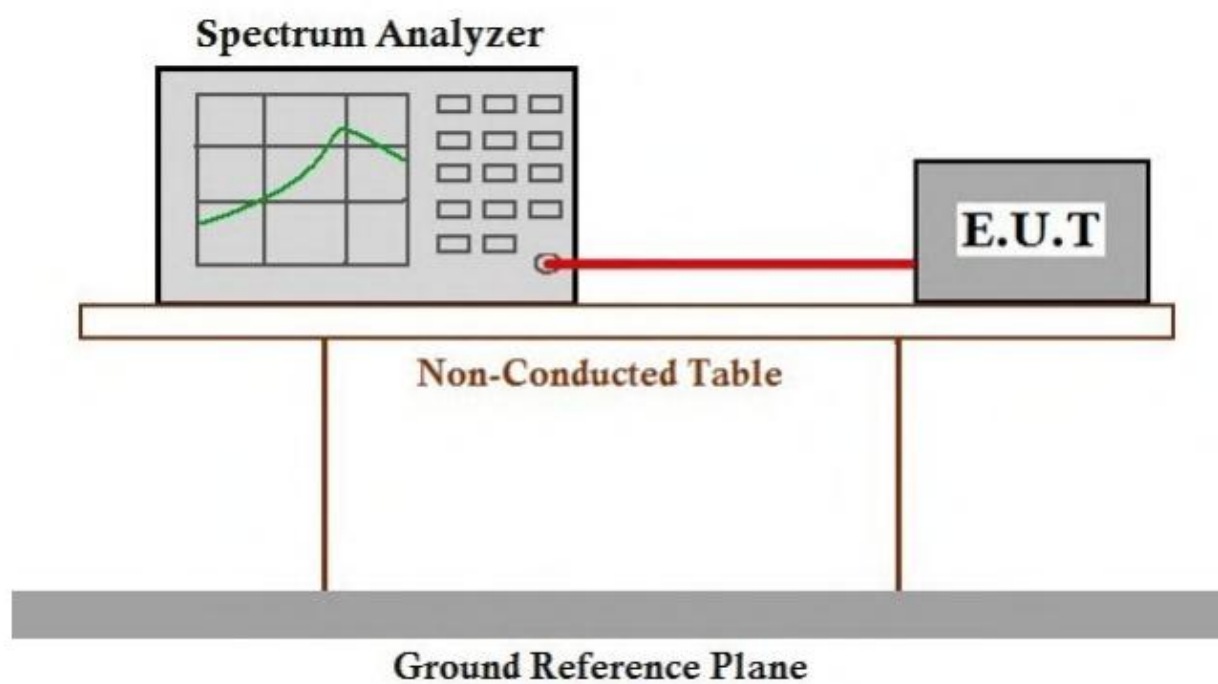
For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 17\text{dBm}$ in 1MHz for master device
	$\leq 11\text{dBm}$ in 1MHz for client device
5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device
5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device
5725-5850	$\leq 30\text{dBm}$ in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

Test Setup Diagram



Result Table

ANT1:

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	2.1	≤11.00	PASS
	5200	0.95	≤11.00	PASS
	5240	0.01	≤11.00	PASS
	5745	-1.97	≤30.00	PASS
	5785	-4	≤30.00	PASS
	5825	-4.56	≤30.00	PASS
11N20SISO	5180	2.05	≤11.00	PASS
	5200	0.38	≤11.00	PASS
	5240	-0.04	≤11.00	PASS
	5745	-2.33	≤30.00	PASS
	5785	-4.53	≤30.00	PASS
	5825	-4.86	≤30.00	PASS

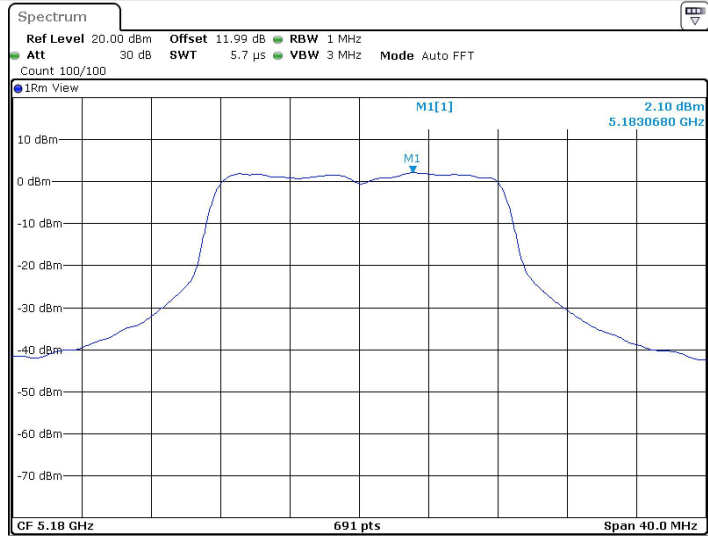
ANT2:

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	-1.78	≤11.00	PASS
	5200	-3.55	≤11.00	PASS
	5240	-5.16	≤11.00	PASS
	5745	-4.36	≤30.00	PASS
	5785	-6.54	≤30.00	PASS
	5825	-7.17	≤30.00	PASS
11N20SISO	5180	-1.89	≤11.00	PASS
	5200	-3.25	≤11.00	PASS
	5240	-4.41	≤11.00	PASS
	5745	-4.42	≤30.00	PASS
	5785	-6.35	≤30.00	PASS
	5825	-7.91	≤30.00	PASS

ANT1+ANT2:

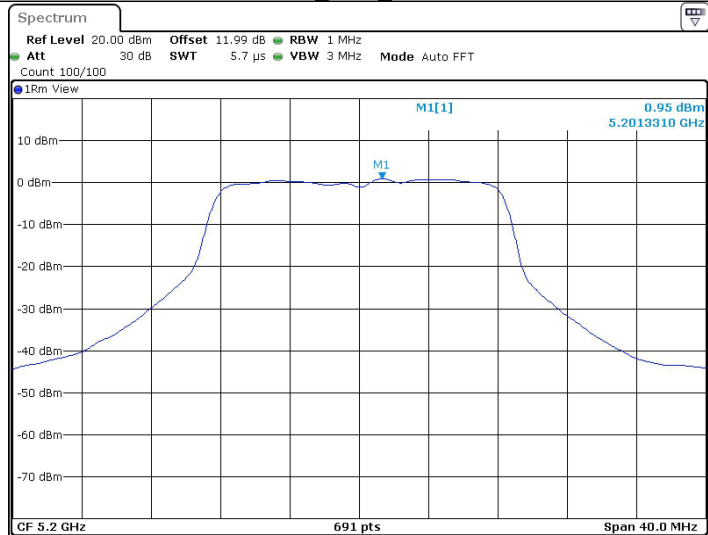
TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	5180	3.52	≤11.00	PASS
	5200	1.94	≤11.00	PASS
	5240	1.31	≤11.00	PASS
	5745	-0.24	≤30.00	PASS
	5785	-2.34	≤30.00	PASS
	5825	-3.11	≤30.00	PASS

11A_Ant1_5180



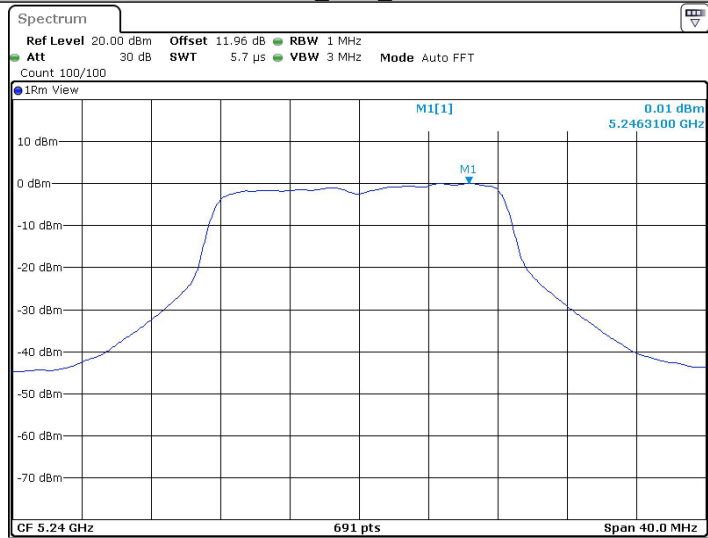
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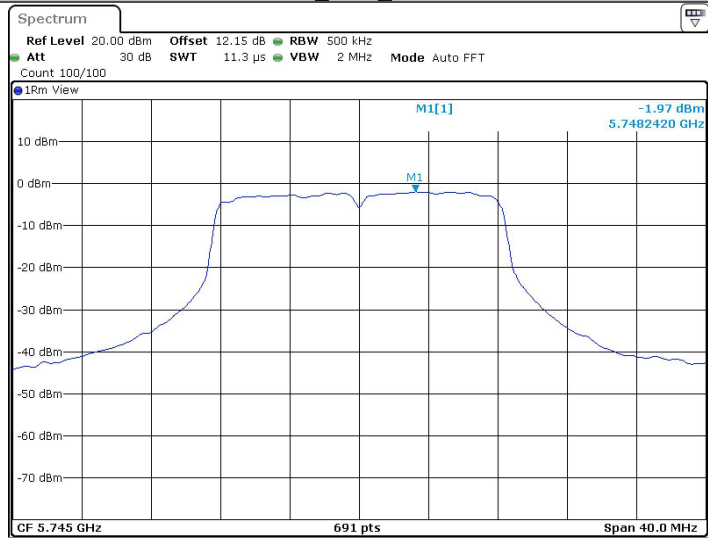
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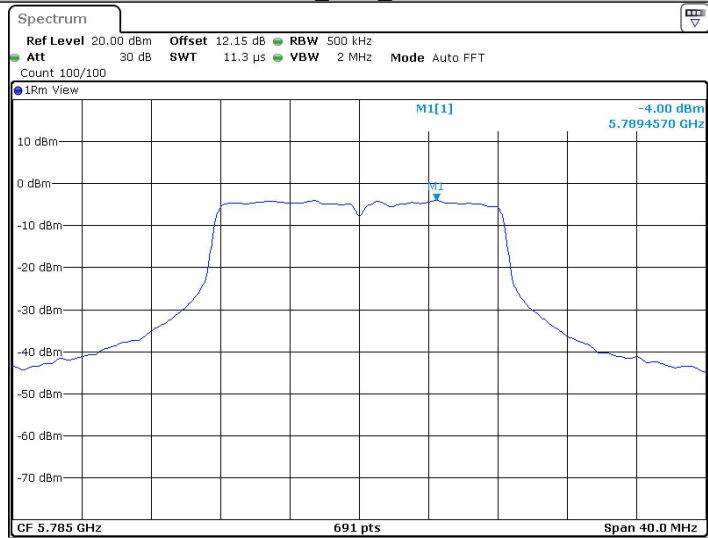
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11A_Ant1_5745



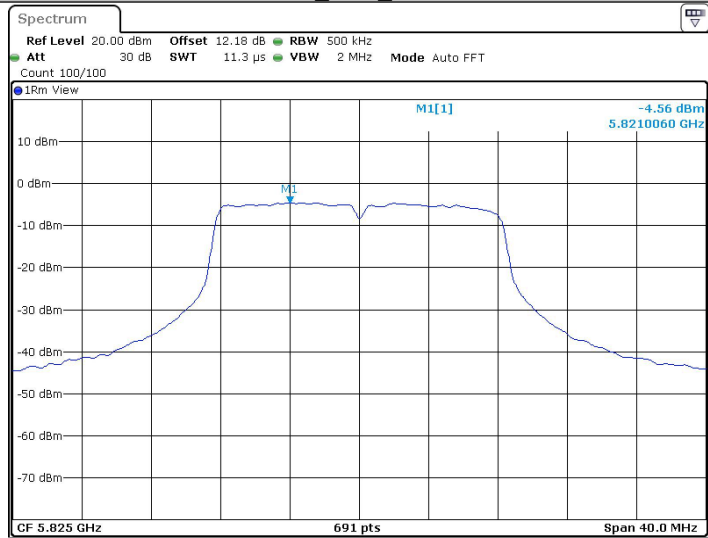
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11A_Ant1_5785



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11A_Ant1_5825



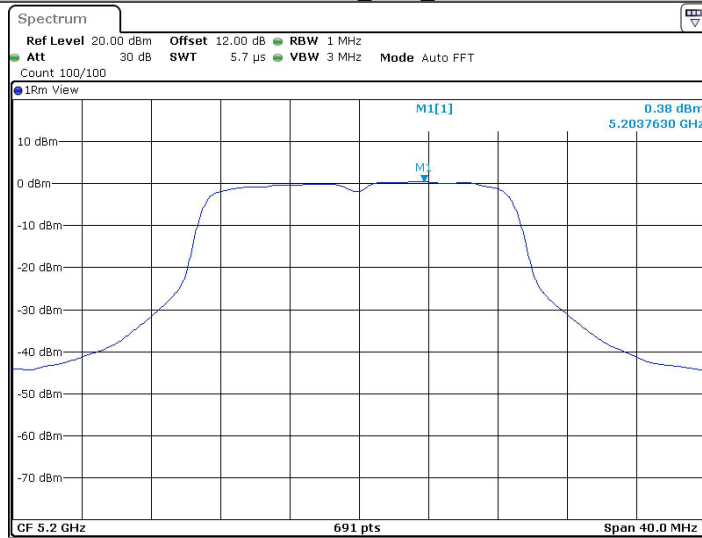
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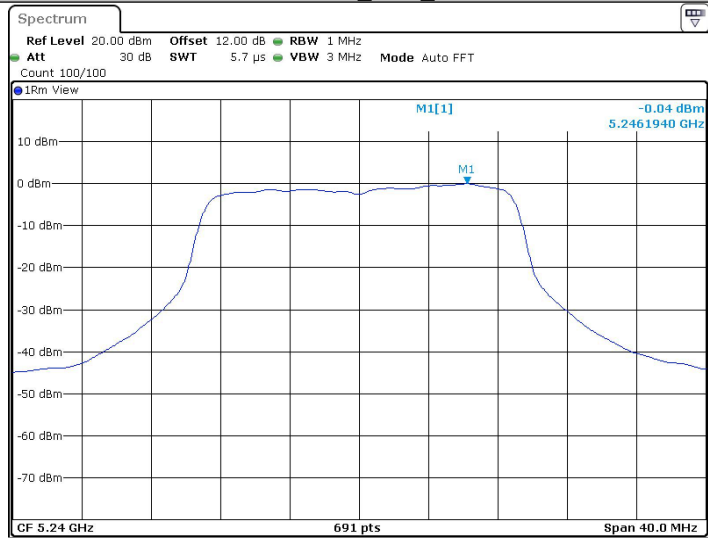
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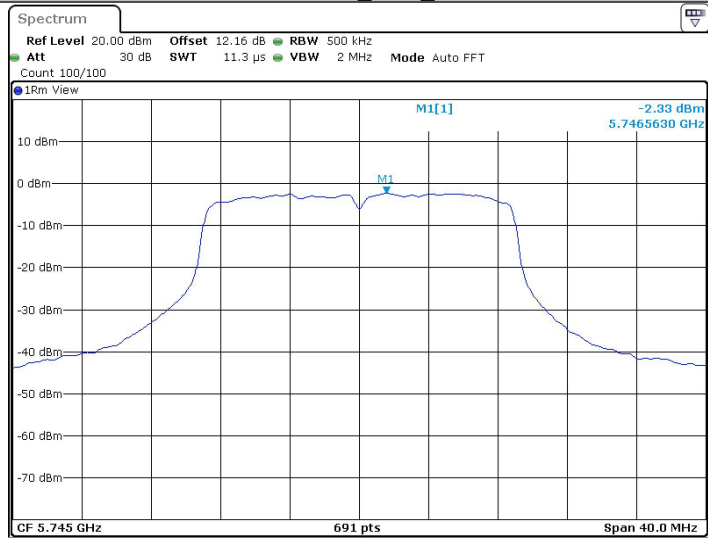
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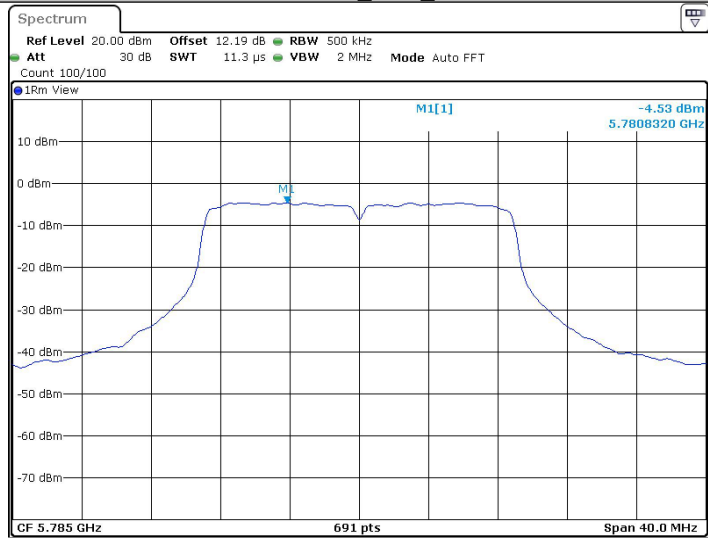
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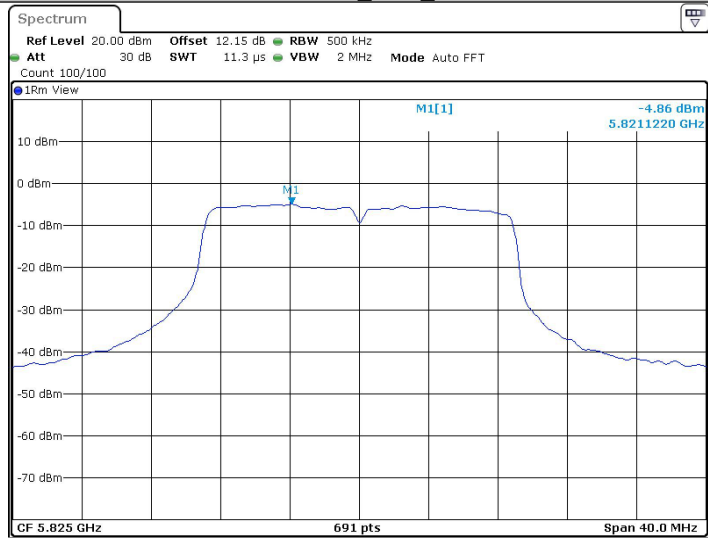
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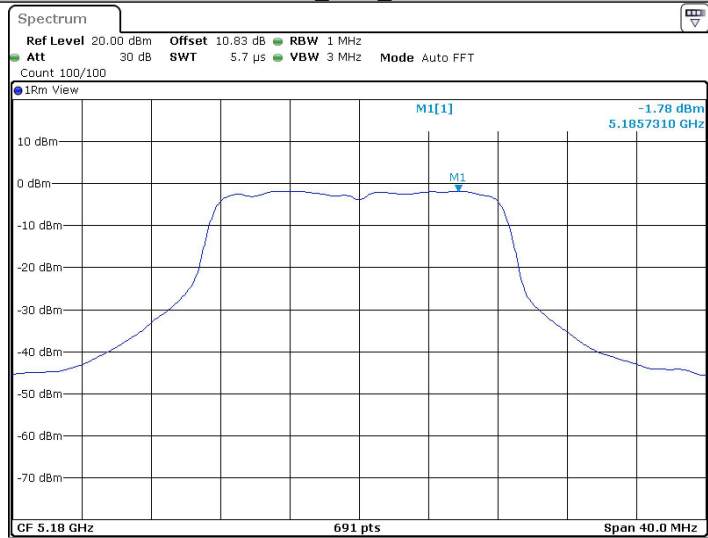
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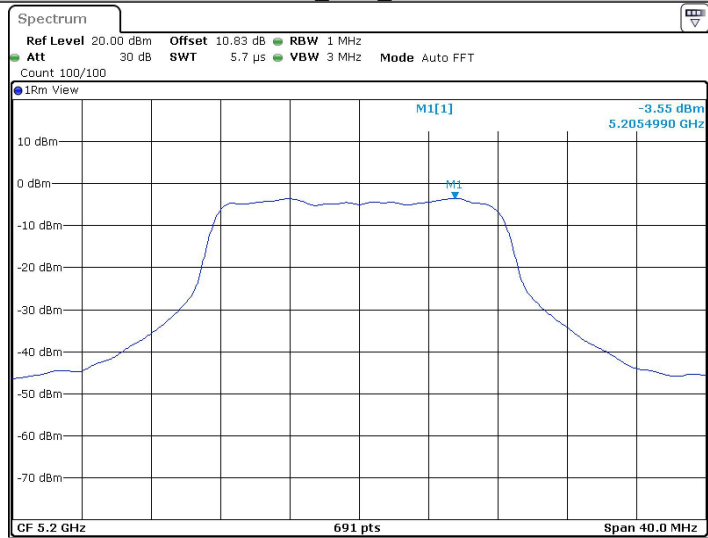
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11A_Ant2_5180



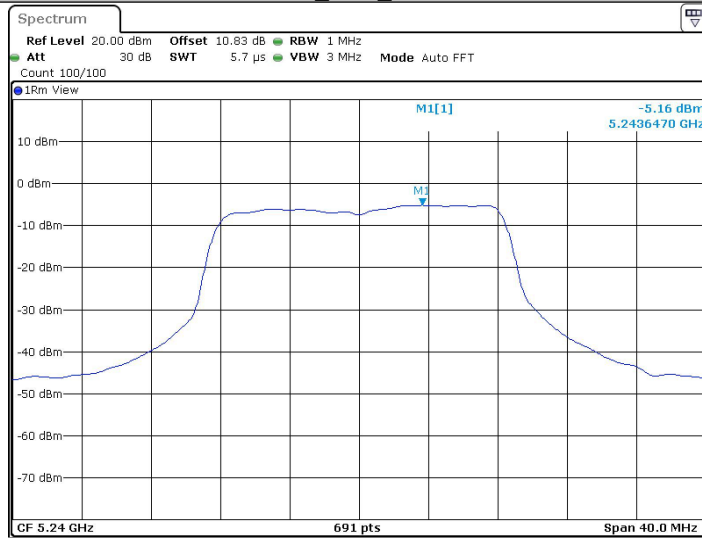
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11A_Ant2_5200



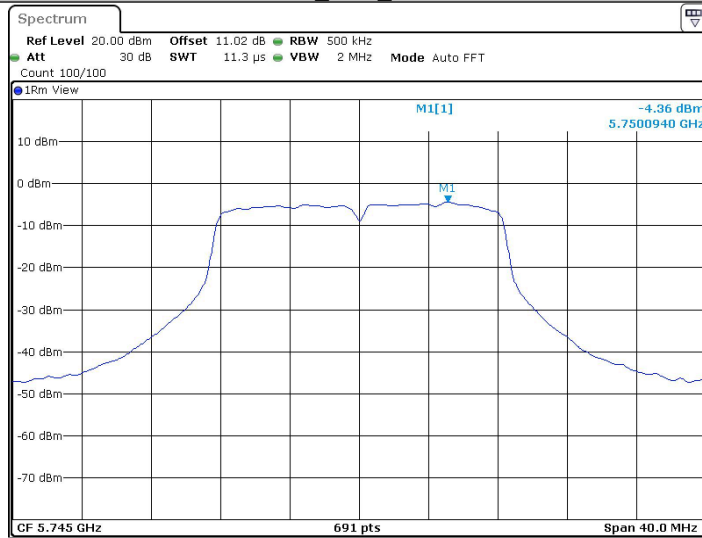
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11A_Ant2_5240



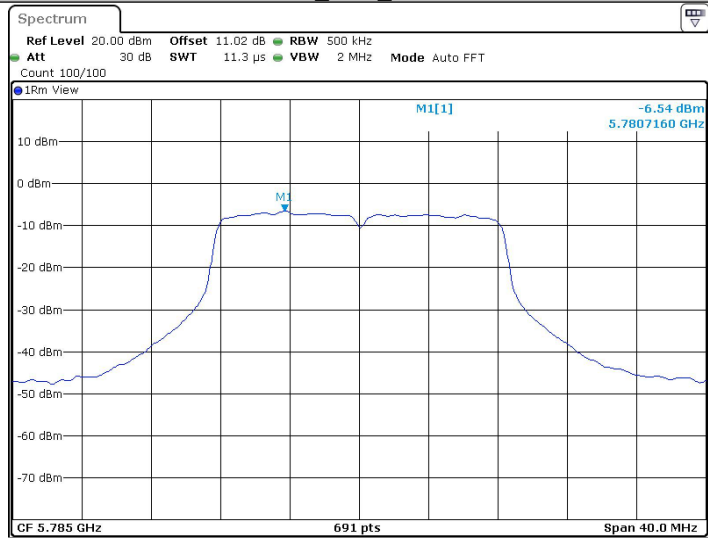
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11A_Ant2_5745



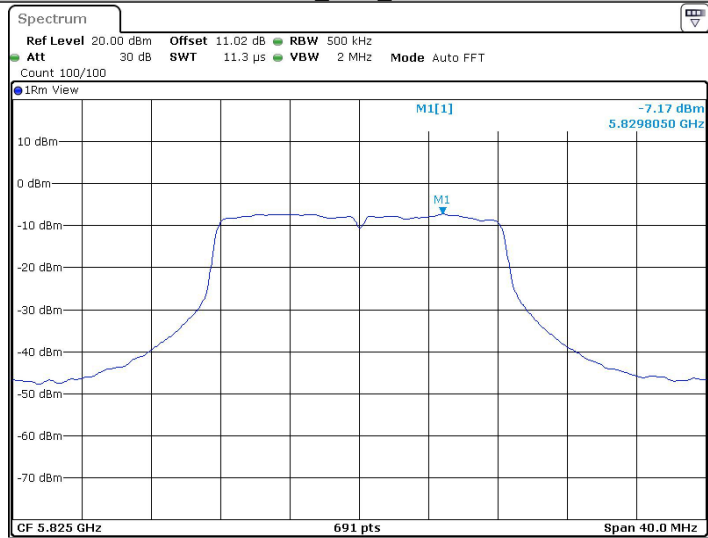
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11A_Ant2_5785



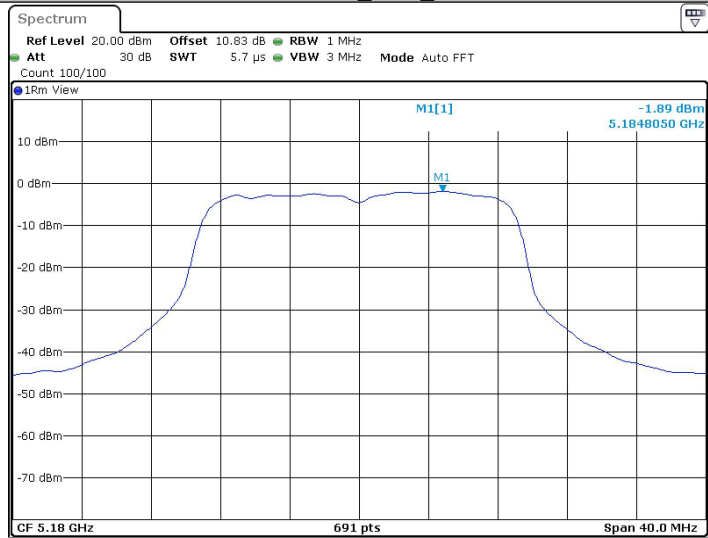
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11A_Ant2_5825



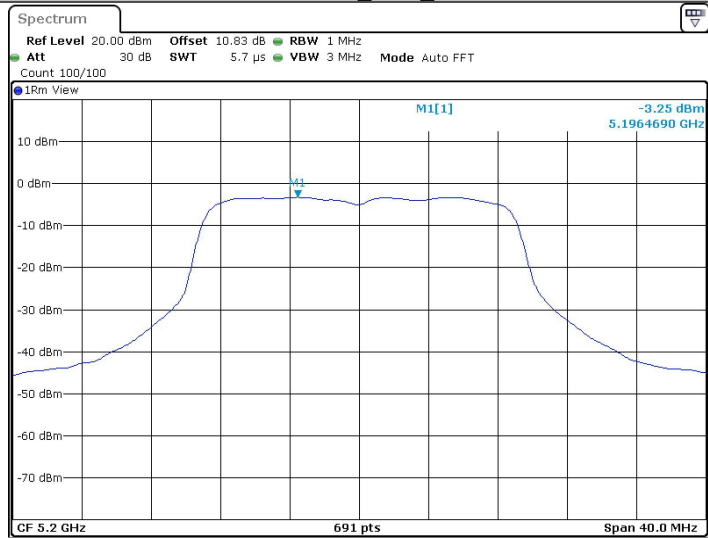
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11N20SISO_Ant2_5180



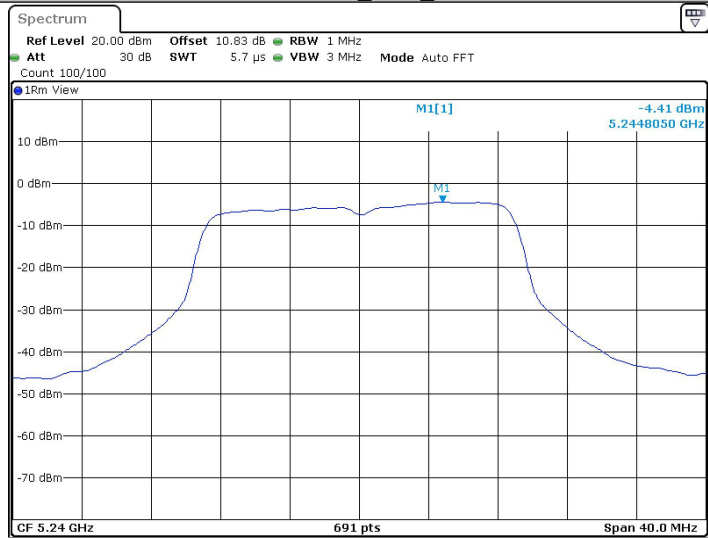
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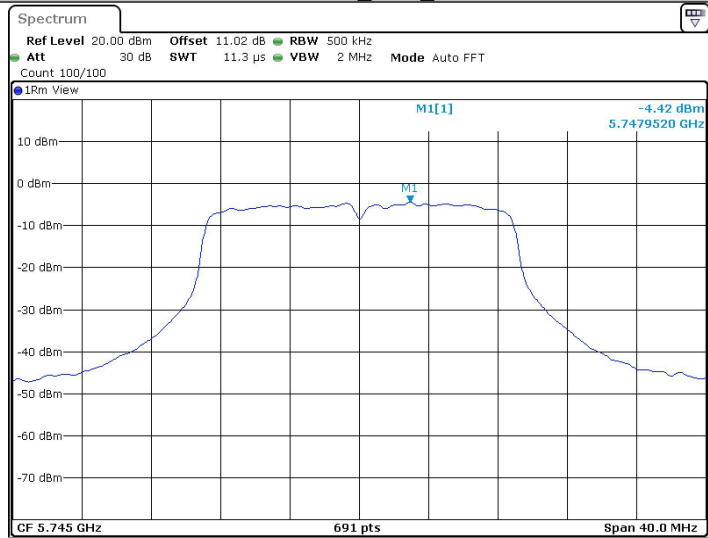
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11N20SISO_Ant2_5240



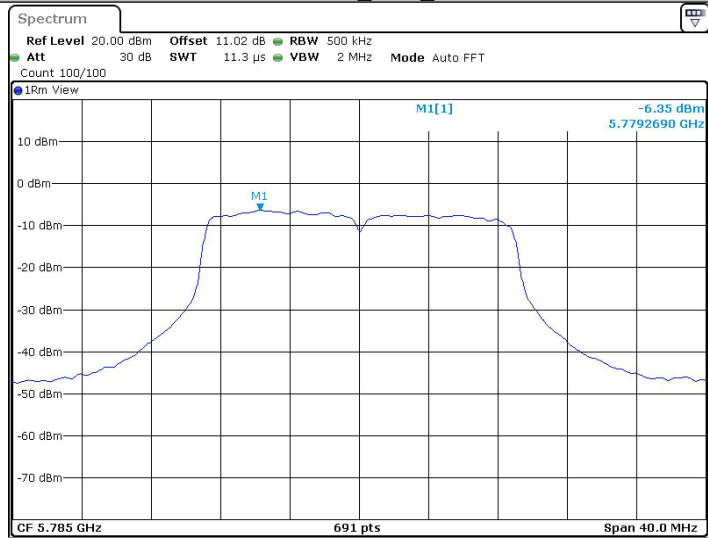
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11N20SISO_Ant2_5745



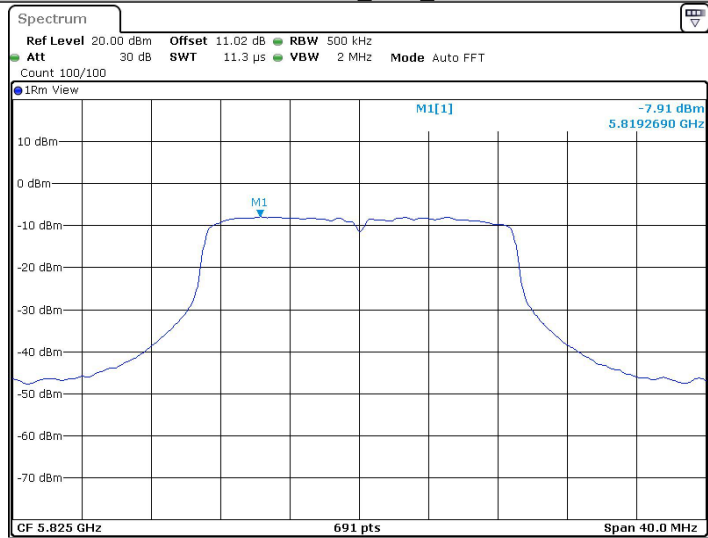
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11N20SISO_Ant2_5785



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11N20SISO_Ant2_5825



Date: 10.AUG.2023 10:52:13

Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

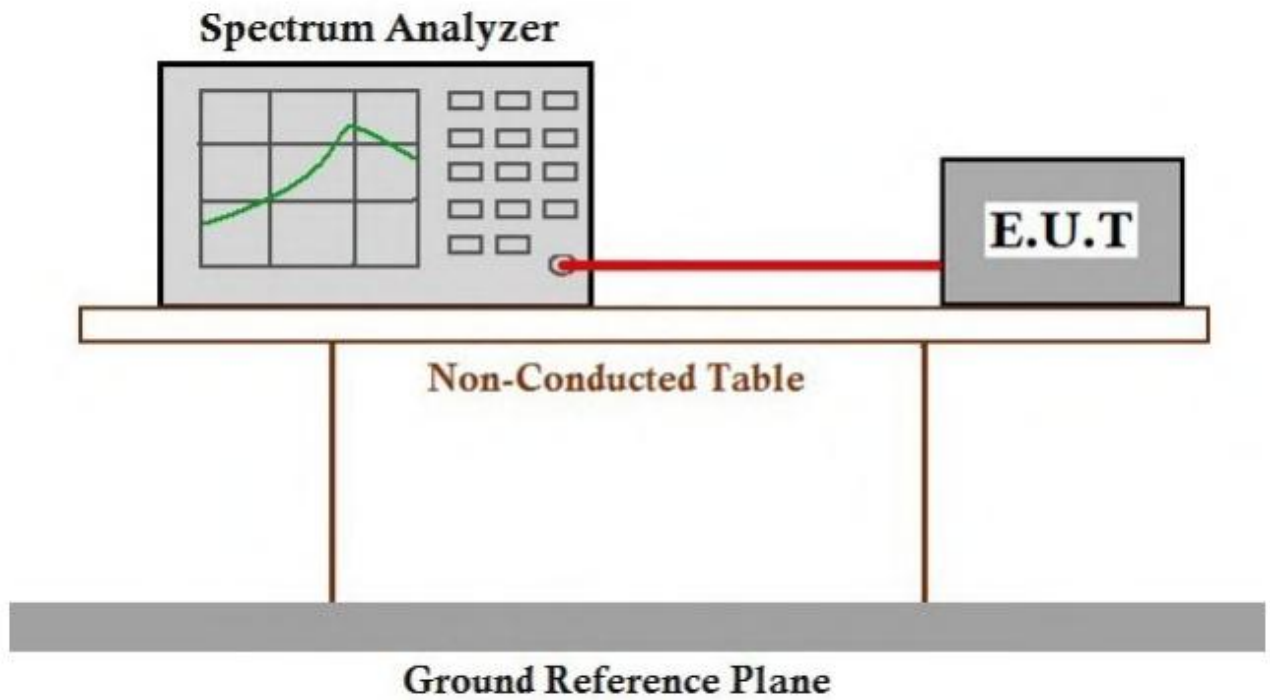
Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

Test Setup Diagram



Test Result:

Ant1:

TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-43.16	≤ -27	PASS
	High	5240	-42.76	≤ -27	PASS
11N20SISO	Low	5180	-43.36	≤ -27	PASS
	High	5240	-42.75	≤ -27	PASS

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-42.65	≤ -0.73	PASS
			5700~5720	-40.63	≤ 15.51	PASS
			5720~5725	-37.25	≤ 25.48	PASS
			5760~5650	-43.3	≤ -27	PASS
	High	5825	5850~5855	-42.65	≤ 23.38	PASS
			5855~5875	-41.87	≤ 14.38	PASS
			5875~5925	-41.84	≤ -21.98	PASS
			5925~5935	-41.97	≤ -27	PASS
11N20SISO	Low	5745	5650~5700	-42.53	≤ -9.73	PASS
			5700~5720	-41.09	≤ 14.76	PASS
			5720~5725	-39.05	≤ 27.00	PASS
			5760~5650	-44.28	≤ -27	PASS
	High	5825	5850~5855	-42.74	≤ 20.70	PASS
			5855~5875	-41.92	≤ 13.72	PASS
			5875~5925	-42.33	≤ -0.84	PASS
			5925~5935	-42.55	≤ -27	PASS

Ant2:

TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-44.11	≤ -27	PASS
	High	5240	-44.13	≤ -27	PASS
11N20SISO	Low	5180	-44.16	≤ -27	PASS
	High	5240	-44.81	≤ -27	PASS

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-42.95	≤ -0.85	PASS
			5700~5720	-43.04	≤ 13.22	PASS
			5720~5725	-43.09	≤ 24.72	PASS
			5760~5650	-44.24	≤ -27	PASS
	High	5825	5850~5855	-41.89	≤ 19.37	PASS
			5855~5875	-43.15	≤ 14.87	PASS
			5875~5925	-41.99	≤ -21.84	PASS
			5925~5935	-42.89	≤ -27	PASS
11N20SISO	Low	5745	5650~5700	-43.68	≤ -24.66	PASS
			5700~5720	-43.3	≤ 10.79	PASS
			5720~5725	-43.19	≤ 24.72	PASS
			5760~5650	-43.96	≤ -27	PASS
	High	5825	5850~5855	-43.52	≤ 25.17	PASS
			5855~5875	-43.37	≤ 12.68	PASS
			5875~5925	-42.36	≤ 3.21	PASS
			5925~5935	-42.47	≤ -27	PASS