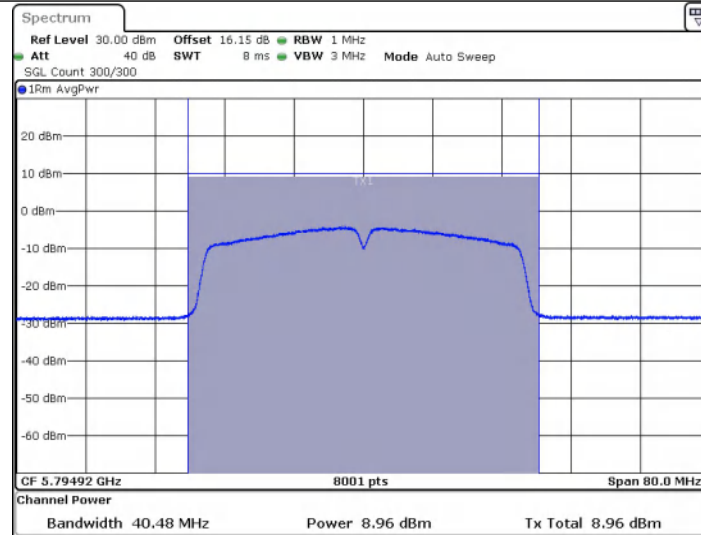
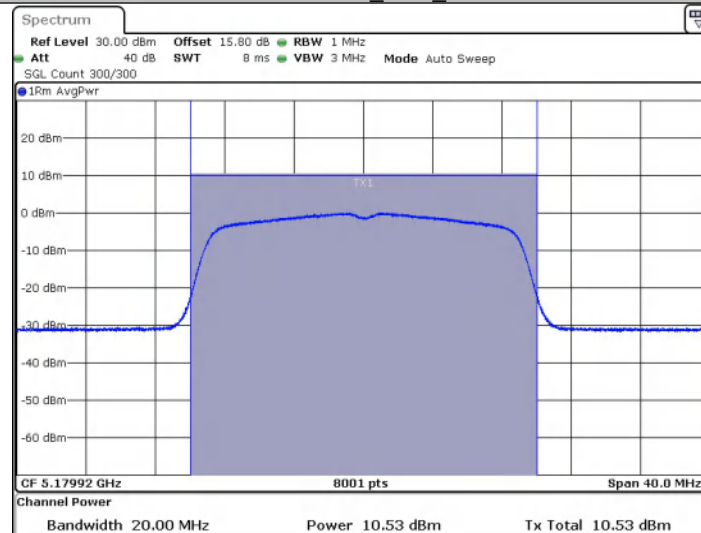


11N40SISO_Ant2_5795



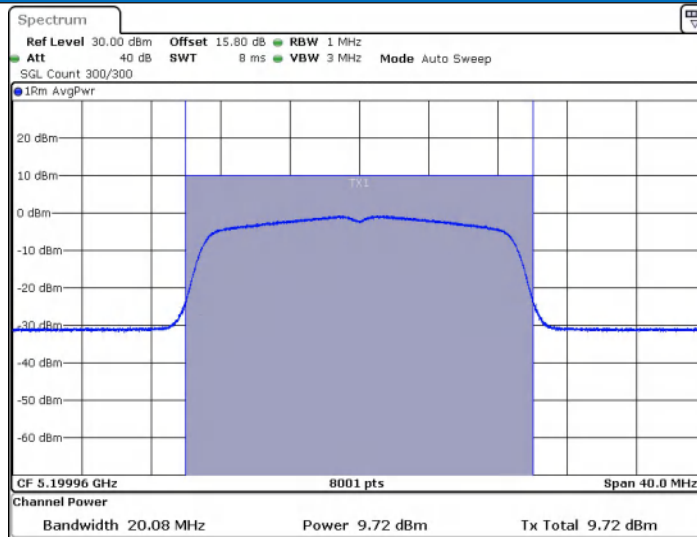
Date: 1 JUN 2026 20:43:40

11AC20SISO_Ant2_5180



Date: 1 JUN 2026 20:46:12

11AC20SISO_Ant2_5200



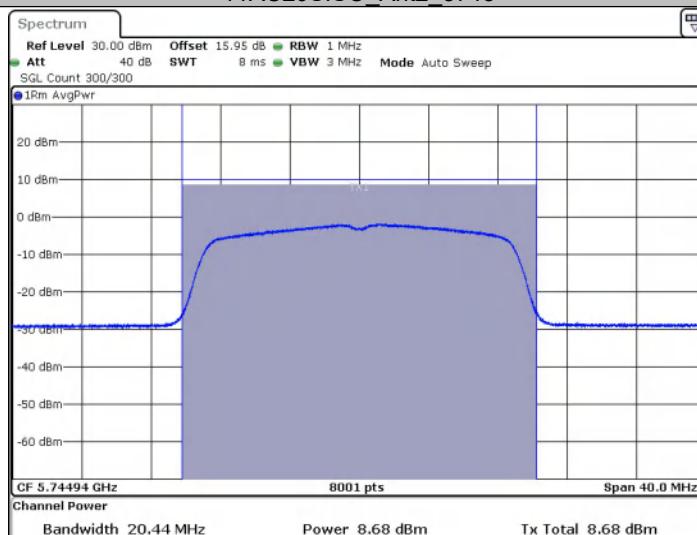
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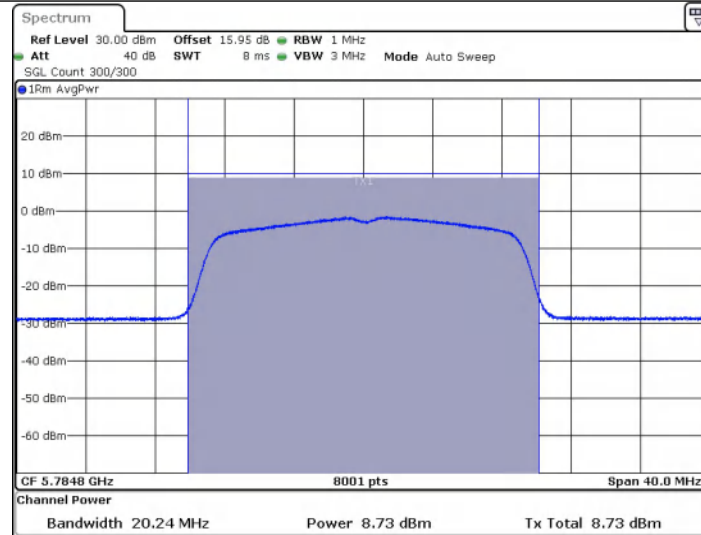
Date: 1 JUN 2026 21:12:57

11AC20SISO_Ant2_5745



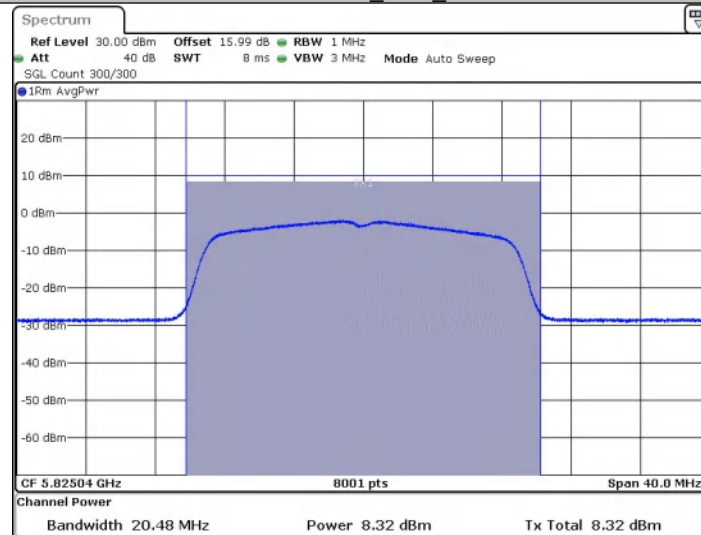
Date: 1 JUN 2026 21:15:26

11AC20SISO_Ant2_5785



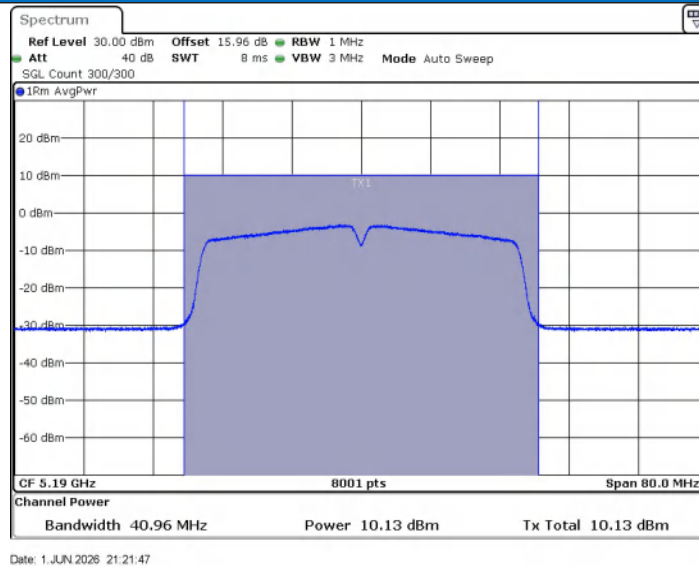
Date: 1 JUN 2026 21:17:38

11AC20SISO_Ant2_5825

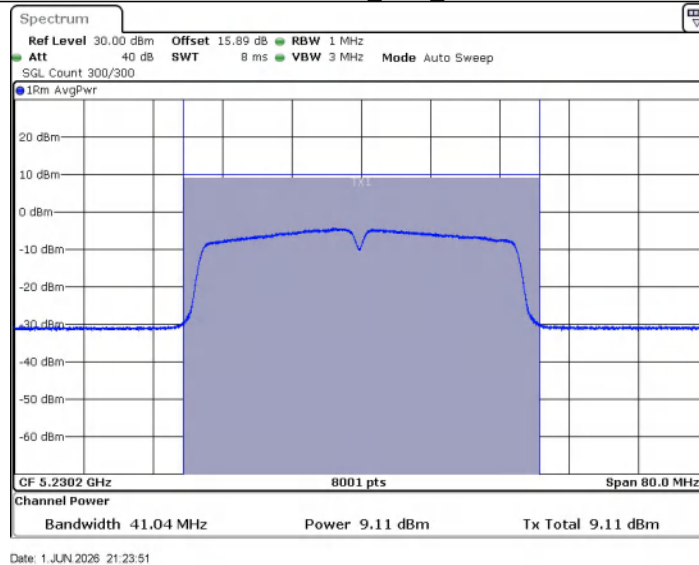


Date: 1 JUN 2026 21:19:30

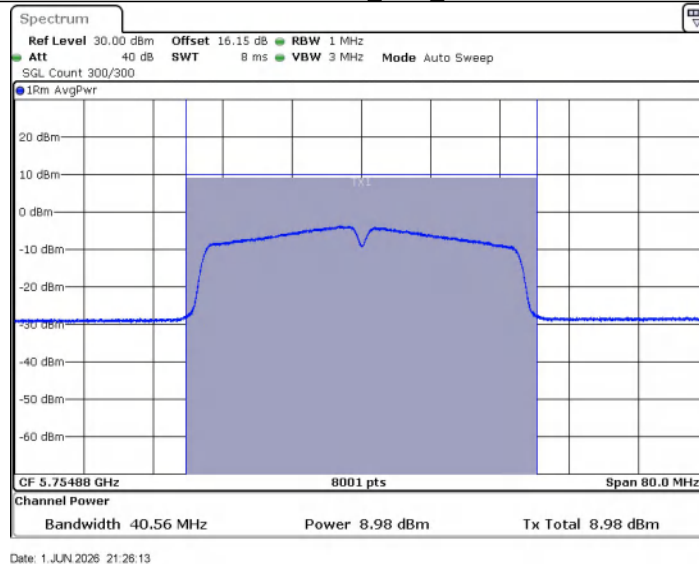
11AC40SISO_Ant2_5190

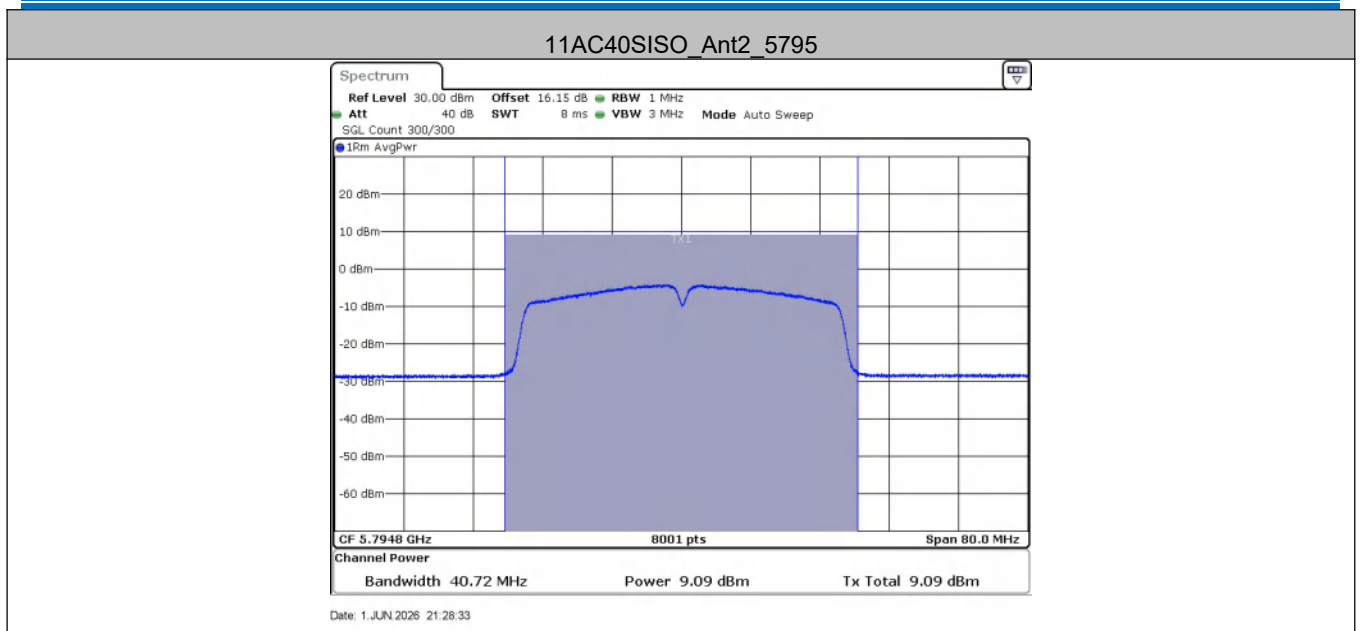


11AC40SISO_Ant2_5230



11AC40SISO_Ant2_5755





Remark:

$Av.Power = Meas.Level + 10 \log (1/duty\ cycle)$

$E.i.r.p = Av.Power + G$,

G = antenna gain in dBi.

ANT1+ANT2

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11N20MIM O	Ant1+Ant2	5180	13.55	≤23.98	PASS
		5200	13.45	≤23.98	PASS
		5240	12.64	≤23.98	PASS
		5745	12.85	≤30.00	PASS
		5785	12.91	≤30.00	PASS
		5825	12.48	≤30.00	PASS
11N40MIM O	Ant1+Ant2	5190	13.14	≤23.98	PASS
		5230	12.17	≤23.98	PASS
		5755	11.96	≤30.00	PASS
		5795	11.96	≤30.00	PASS
11AC20MI MO	Ant1+Ant2	5180	13.45	≤23.98	PASS
		5200	12.74	≤23.98	PASS
		5240	12.05	≤23.98	PASS
		5745	11.72	≤30.00	PASS
		5785	11.77	≤30.00	PASS
		5825	11.29	≤30.00	PASS
11AC40MI MO	Ant1+Ant2	5190	13.20	≤23.98	PASS
		5230	12.20	≤23.98	PASS
		5755	11.99	≤30.00	PASS
		5795	11.98	≤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.

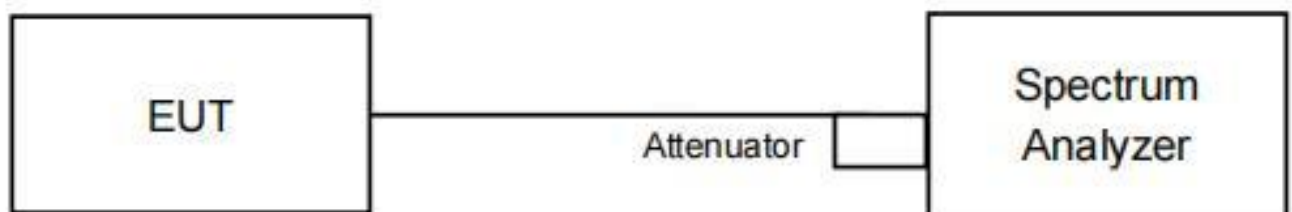
For 5725-5850MHz:

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



Ant1

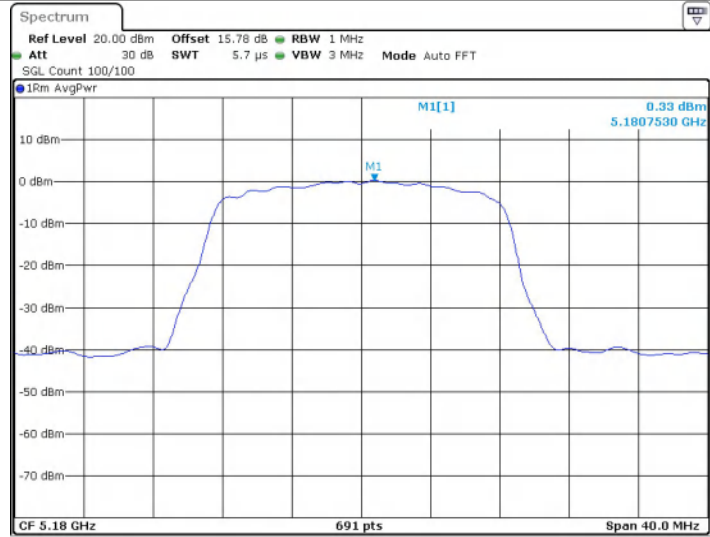
Result Table

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	0.33	≤11.00	PASS
	5200	-0.60	≤11.00	PASS
	5240	-0.72	≤11.00	PASS
	5745	-4.33	≤30.00	PASS
	5785	-4.27	≤30.00	PASS
	5825	-3.88	≤30.00	PASS
11N20SISO	5180	0.54	≤11.00	PASS
	5200	0.42	≤11.00	PASS
	5240	-0.51	≤11.00	PASS
	5745	-2.76	≤30.00	PASS
	5785	-2.89	≤30.00	PASS
	5825	-2.49	≤30.00	PASS
11N40SISO	5190	-3.12	≤11.00	PASS
	5230	-4.29	≤11.00	PASS
	5755	-6.76	≤30.00	PASS
	5795	-7.41	≤30.00	PASS
11AC20SISO	5180	-0.26	≤11.00	PASS
	5200	-1.19	≤11.00	PASS
	5240	-1.46	≤11.00	PASS
	5745	-4.40	≤30.00	PASS
	5785	-4.47	≤30.00	PASS
	5825	-4.94	≤30.00	PASS
11AC40SISO	5190	-3.17	≤11.00	PASS
	5230	-3.70	≤11.00	PASS
	5755	-6.24	≤30.00	PASS
	5795	-7.26	≤30.00	PASS

Remark:

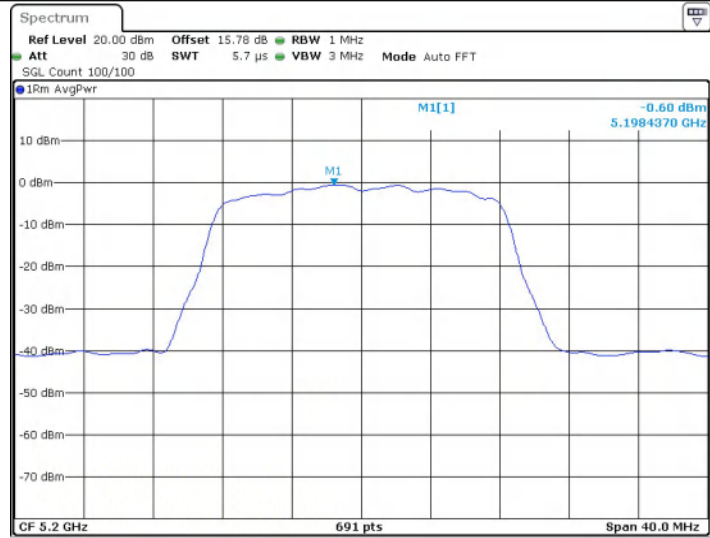
PSD = Meas PSD + Duty Cycle Factor

11A_Ant1_5180



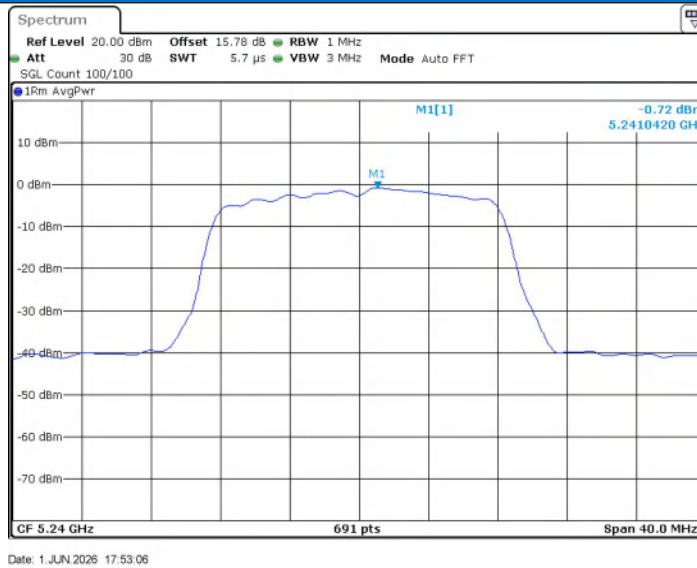
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11A_Ant1_5200

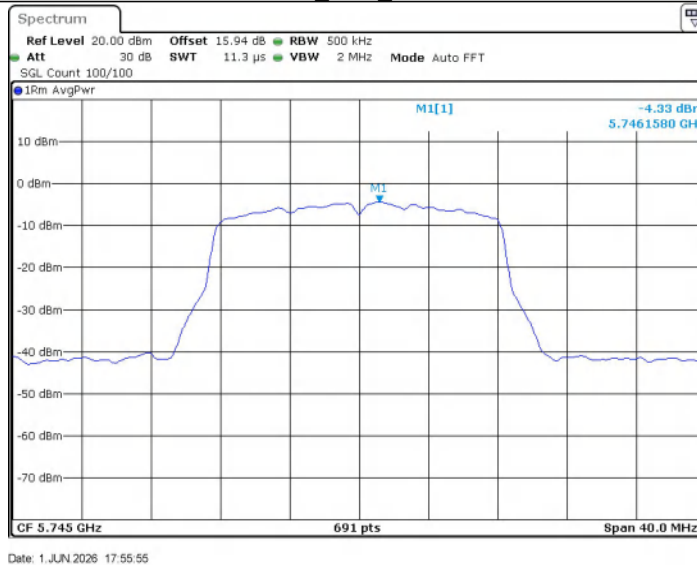


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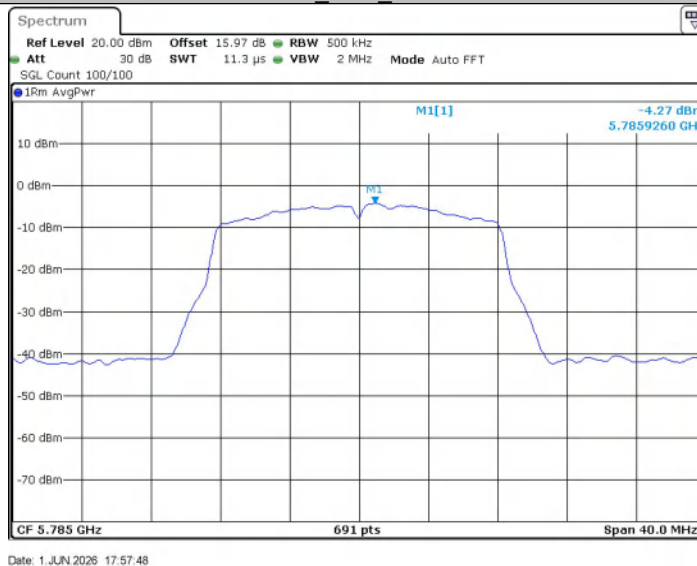
11A_Ant1_5240



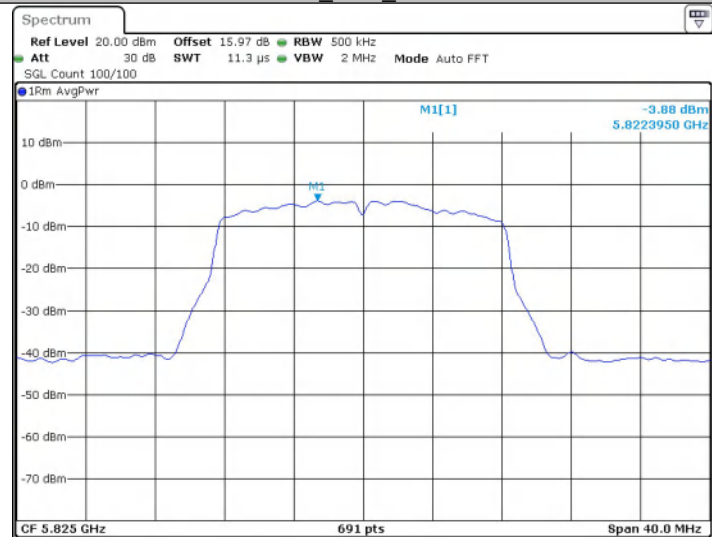
11A_Ant1_5745



11A_Ant1_5785

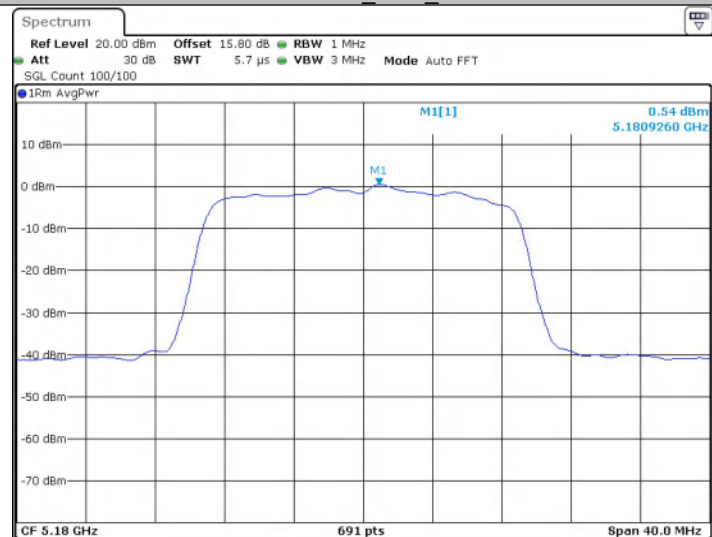


11A_Ant1_5825



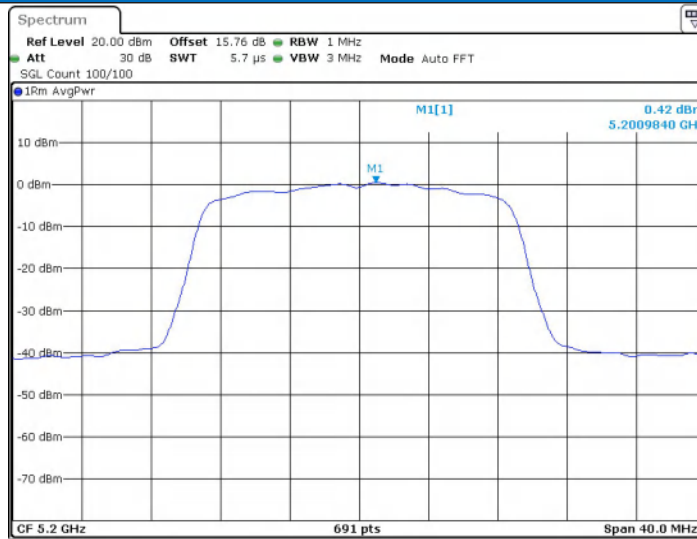
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11N20SISO_Ant1_5180



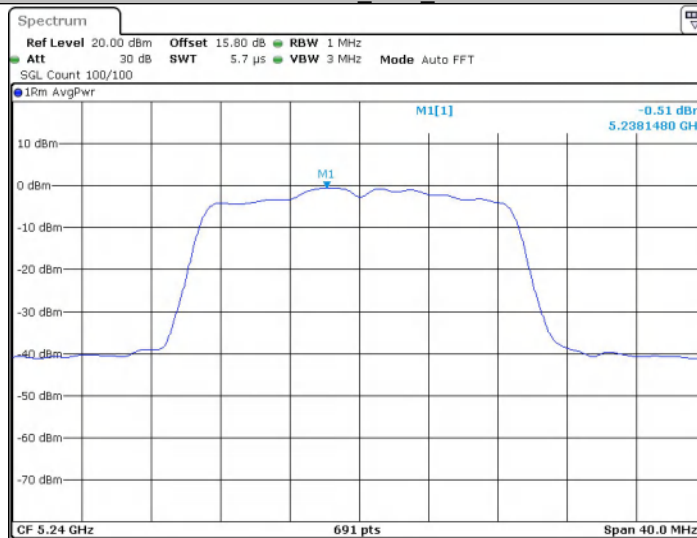
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11N20SISO_Ant1_5200



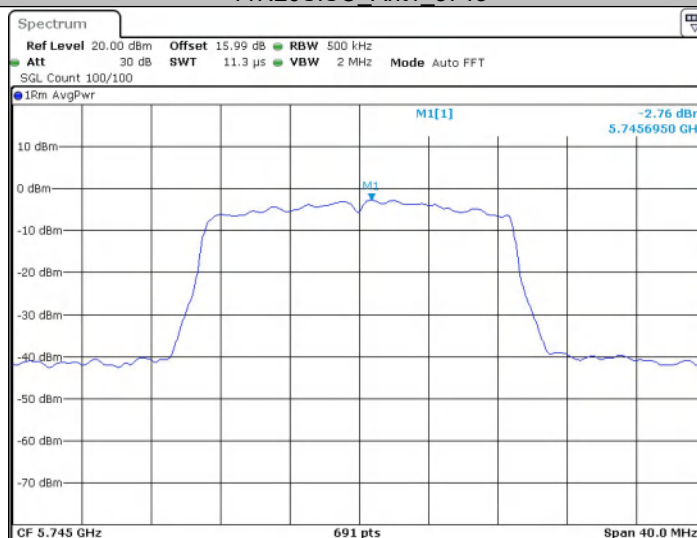
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11N20SISO_Ant1_5240



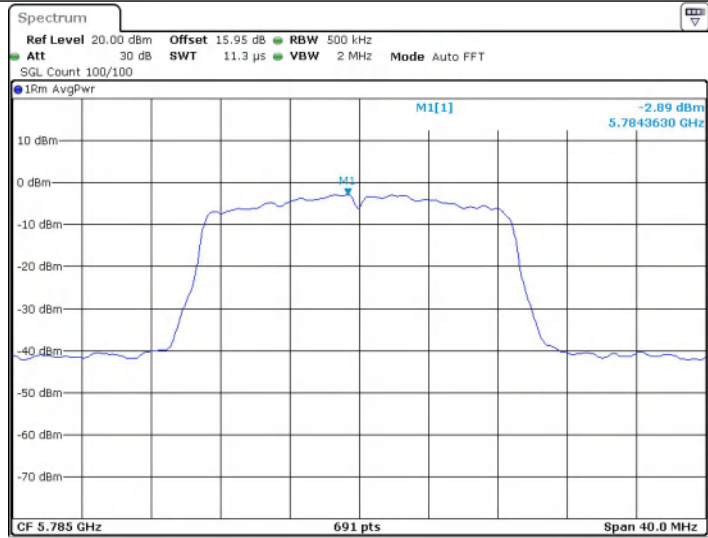
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11N20SISO_Ant1_5745



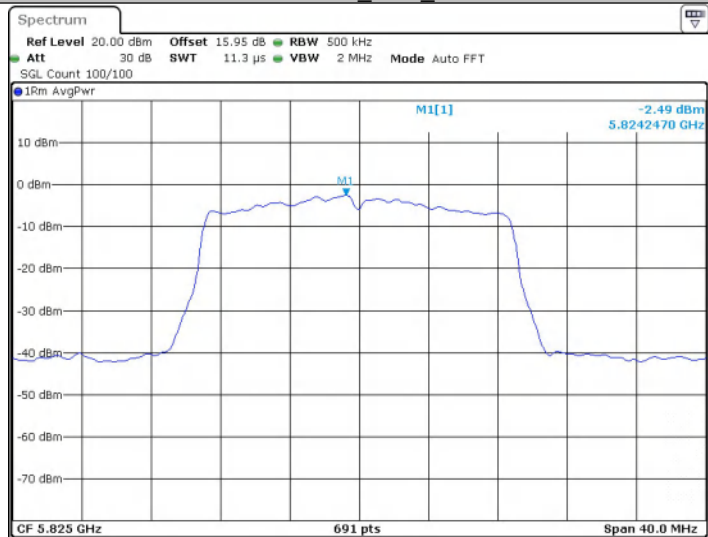
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11N20SISO_Ant1_5785



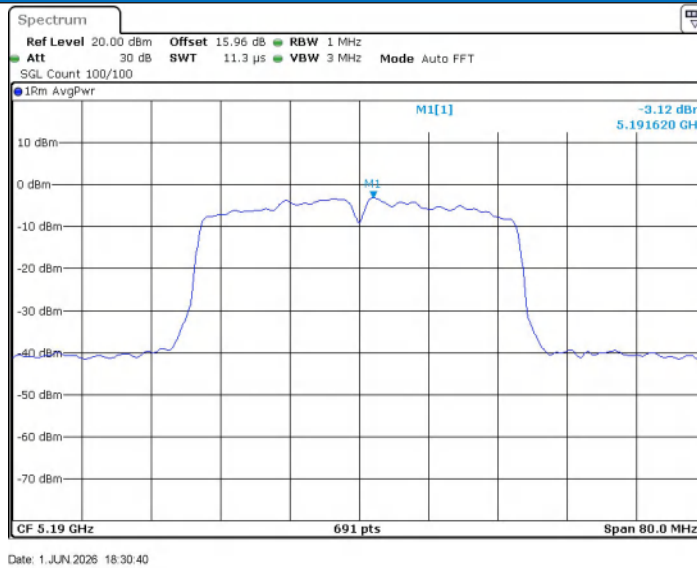
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11N20SISO_Ant1_5825

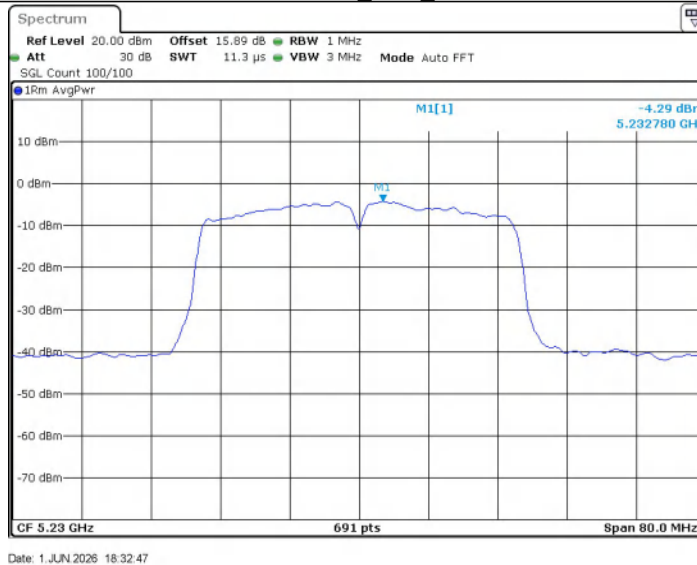


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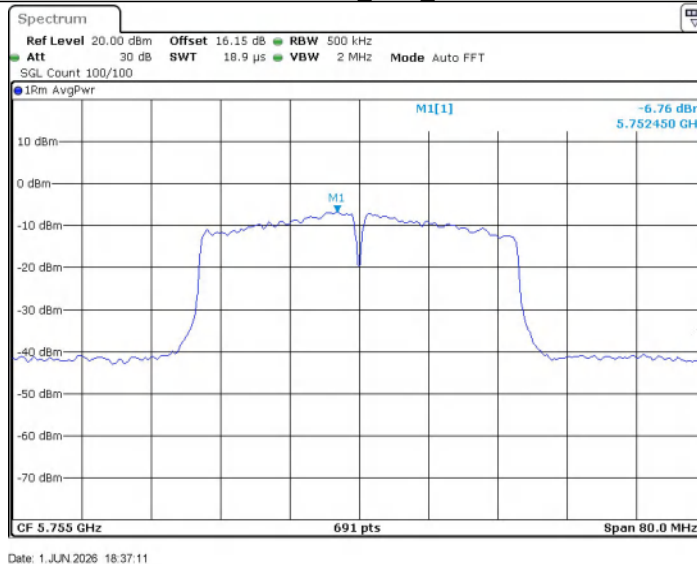
11N40SISO_Ant1_5190



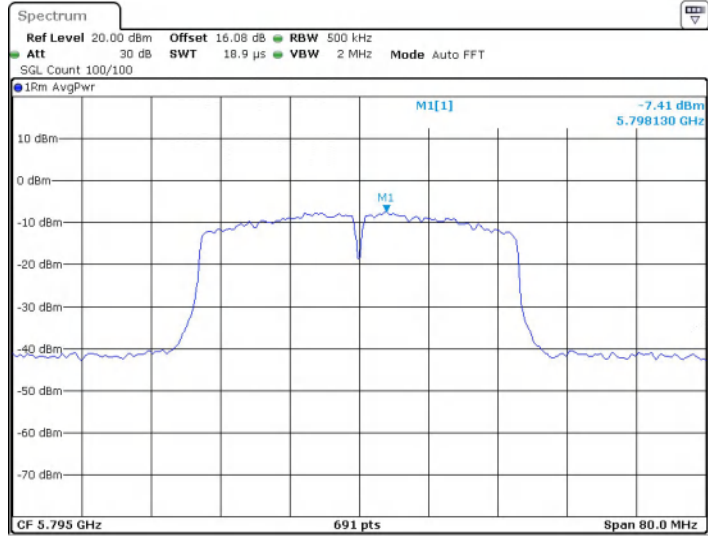
11N40SISO_Ant1_5230



11N40SISO_Ant1_5755

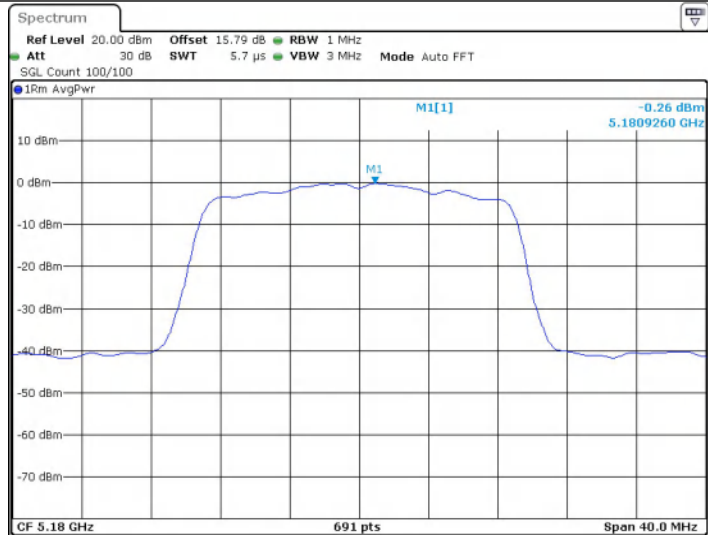


11N40SISO_Ant1_5795



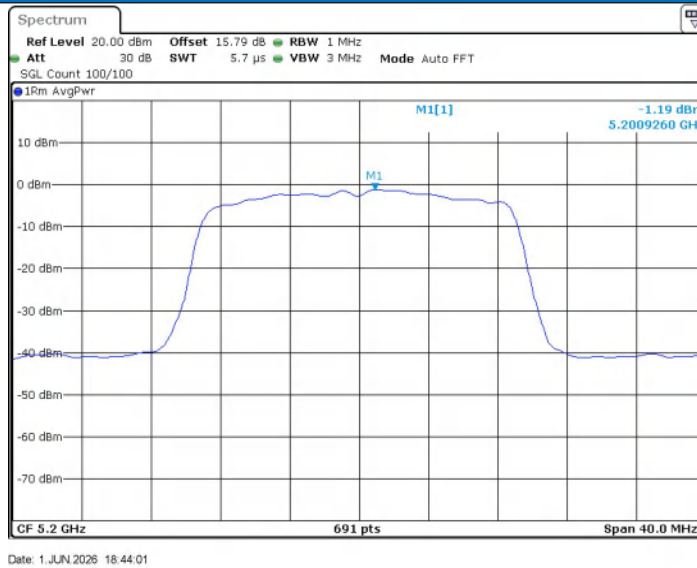
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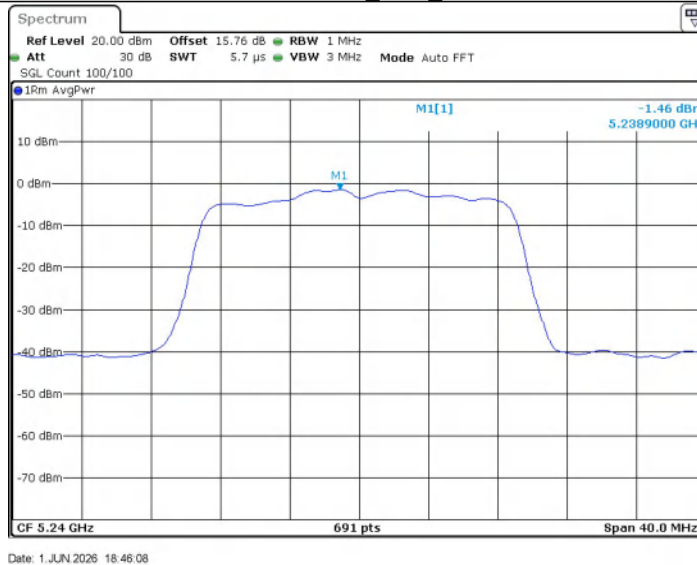


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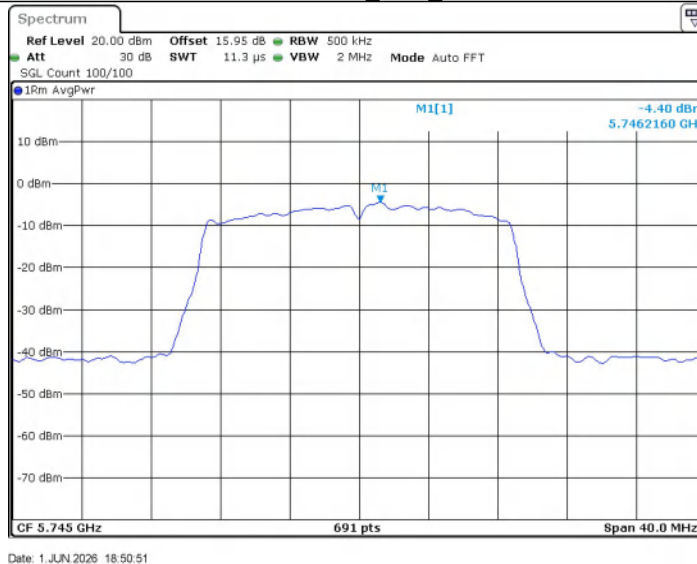
11AC20SISO_Ant1_5200



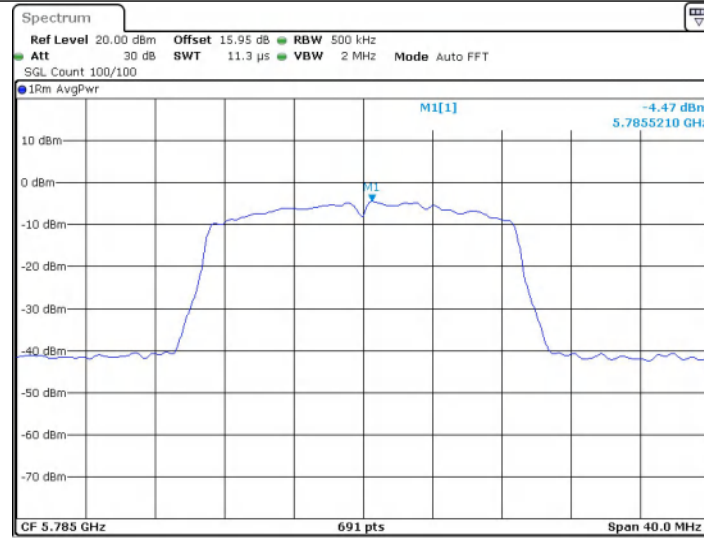
11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745

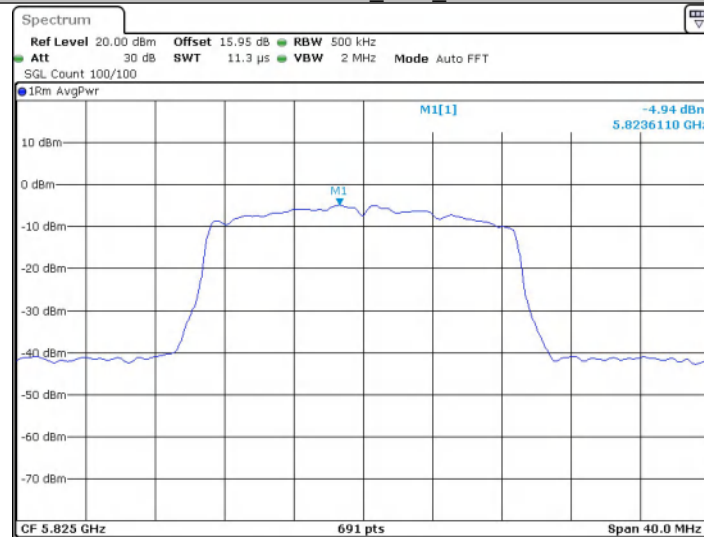


11AC20SISO_Ant1_5785



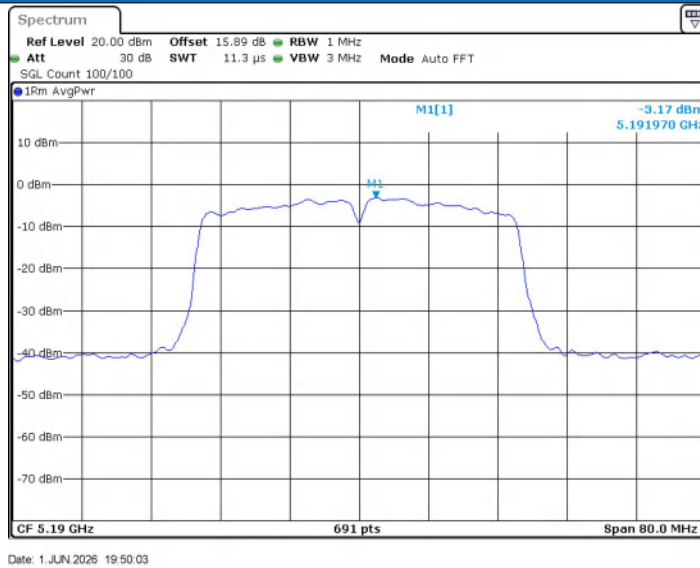
Date: 1 JUN 2026 19:46:23

11AC20SISO_Ant1_5825

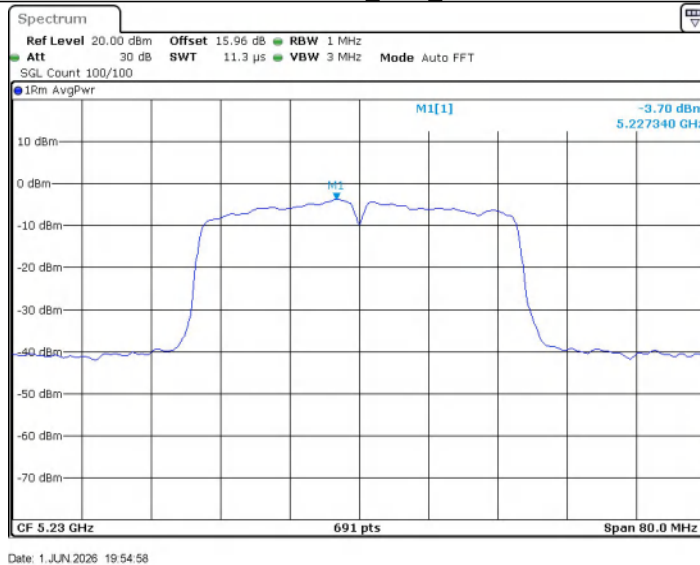


Date: 1 JUN 2026 19:47:54

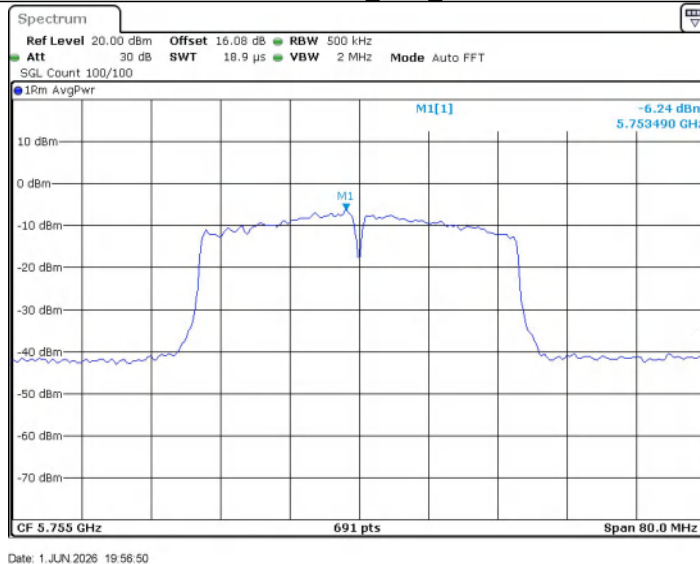
11AC40SISO_Ant1_5190



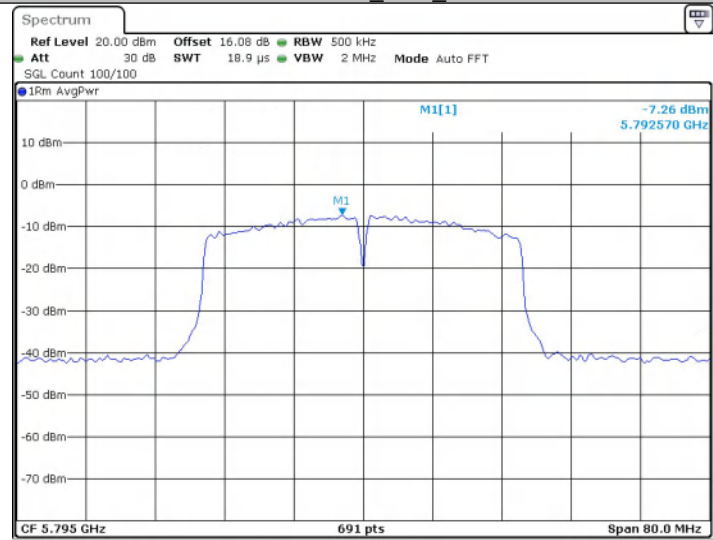
11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Date: 1 JUN 2026 19:58:45

Ant2

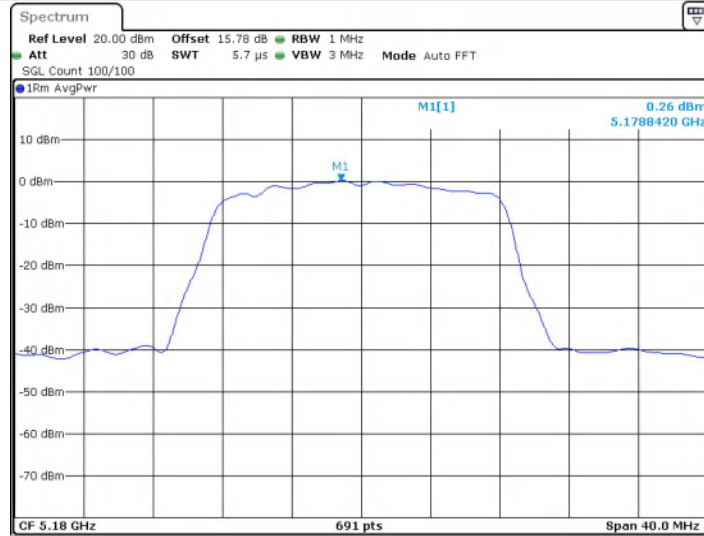
Result Table

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	5180	0.26	≤11.00	PASS
	5200	-0.11	≤11.00	PASS
	5240	-1.56	≤11.00	PASS
	5745	-4.28	≤30.00	PASS
	5785	-4.21	≤30.00	PASS
	5825	-4.31	≤30.00	PASS
11N20SISO	5180	0.38	≤11.00	PASS
	5200	-0.42	≤11.00	PASS
	5240	-1.99	≤11.00	PASS
	5745	-4.51	≤30.00	PASS
	5785	-4.04	≤30.00	PASS
	5825	-4.75	≤30.00	PASS
11N40SISO	5190	-3.22	≤11.00	PASS
	5230	-4.08	≤11.00	PASS
	5755	-6.73	≤30.00	PASS
	5795	-7.31	≤30.00	PASS
11AC20SISO	5180	-0.22	≤11.00	PASS
	5200	-0.57	≤11.00	PASS
	5240	-1.70	≤11.00	PASS
	5745	-4.70	≤30.00	PASS
	5785	-4.12	≤30.00	PASS
	5825	-4.87	≤30.00	PASS
11AC40SISO	5190	-3.55	≤11.00	PASS
	5230	-4.14	≤11.00	PASS
	5755	-6.89	≤30.00	PASS
	5795	-7.09	≤30.00	PASS

Remark:

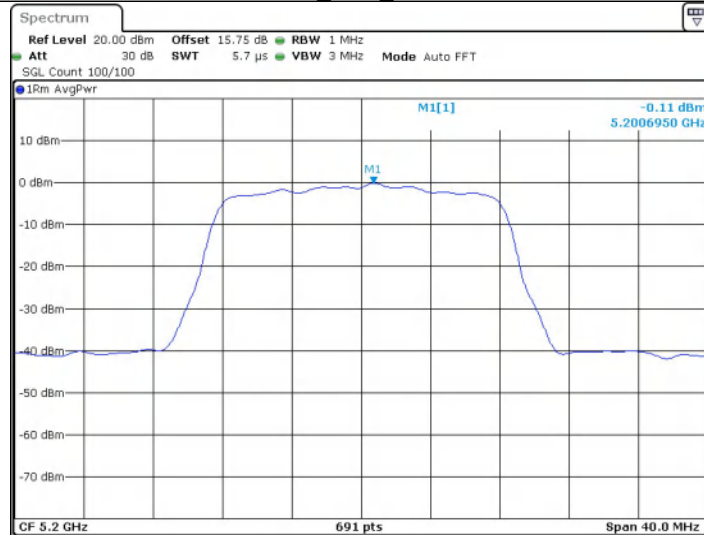
PSD = Meas PSD + Duty Cycle Factor

11A_Ant2_5180



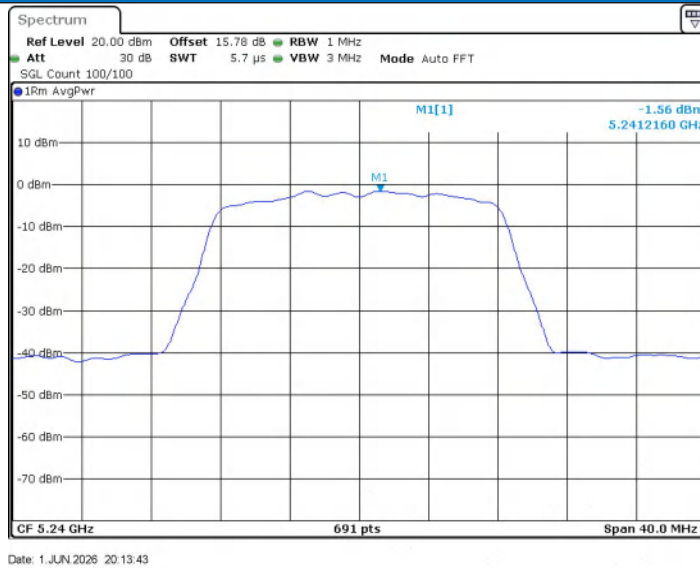
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11A_Ant2_5200

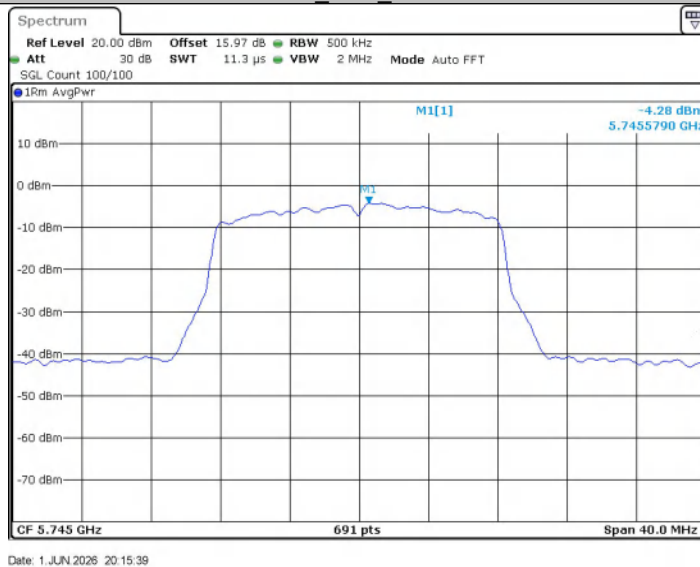


Date: 1 JUN 2026 20:12:22

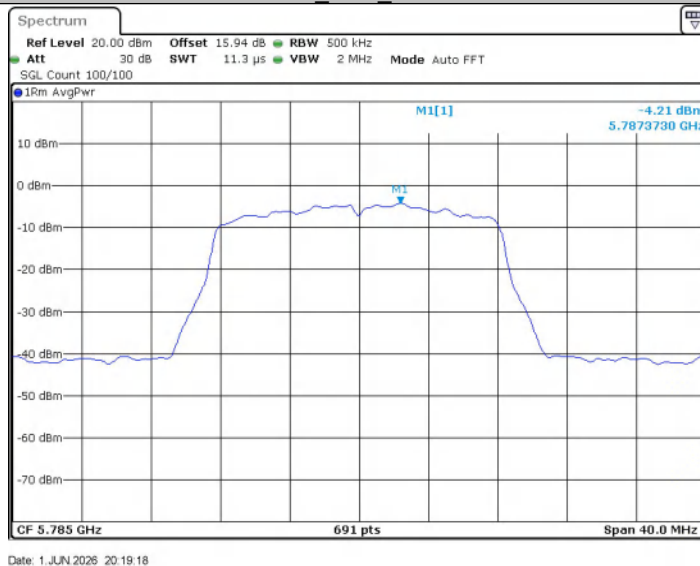
11A_Ant2_5240



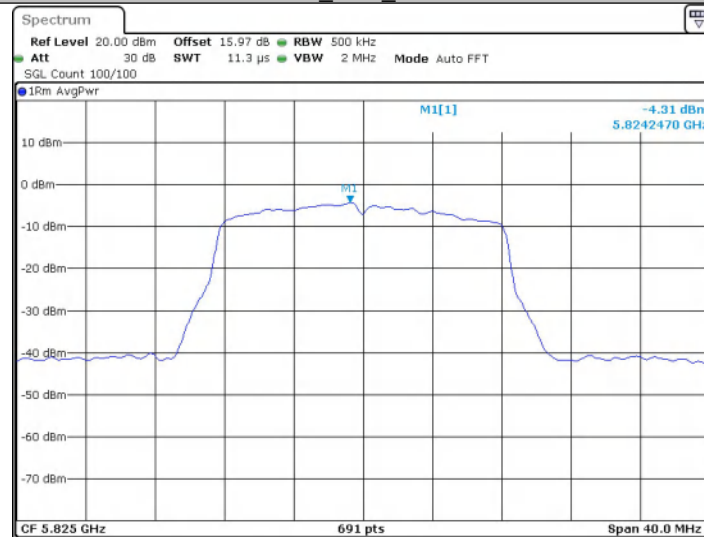
11A_Ant2_5745



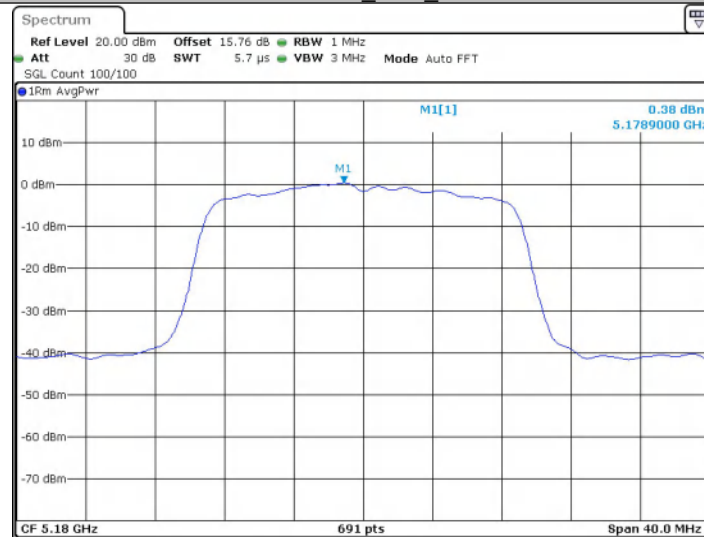
11A_Ant2_5785



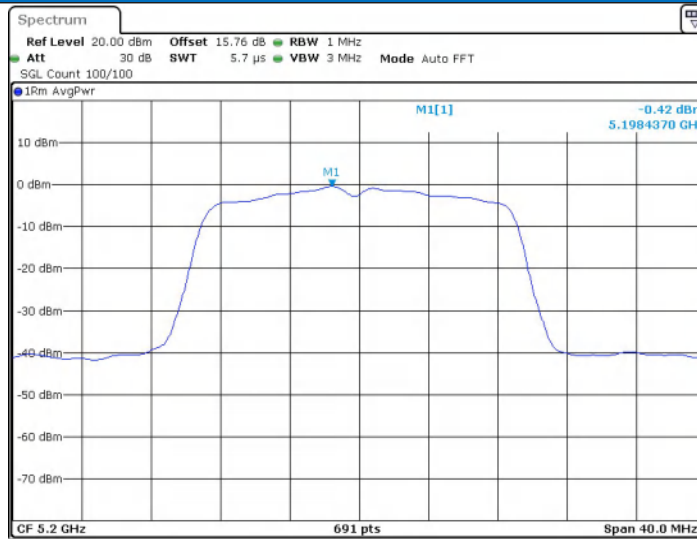
11A_Ant2_5825



11N20SISO_Ant2_5180

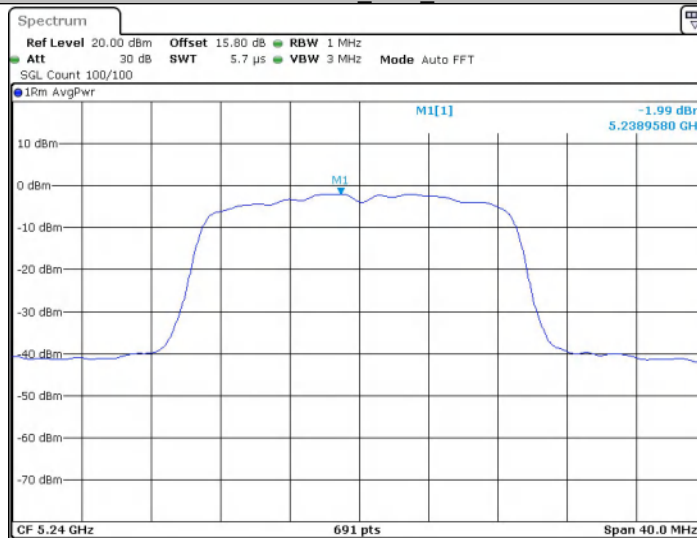


11N20SISO_Ant2_5200



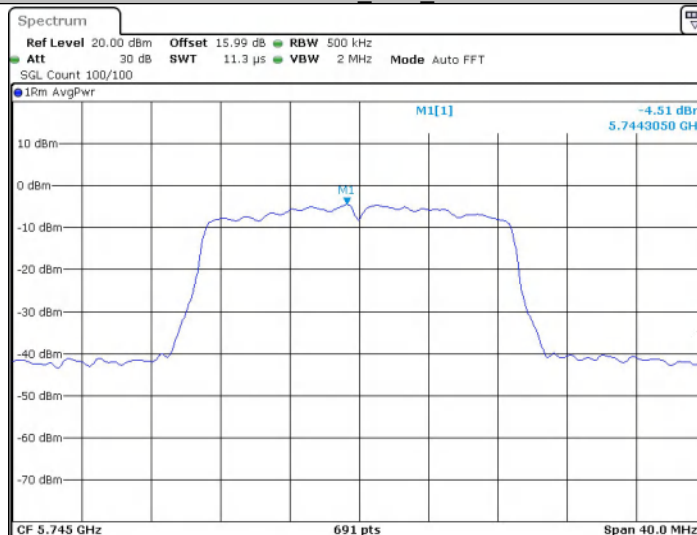
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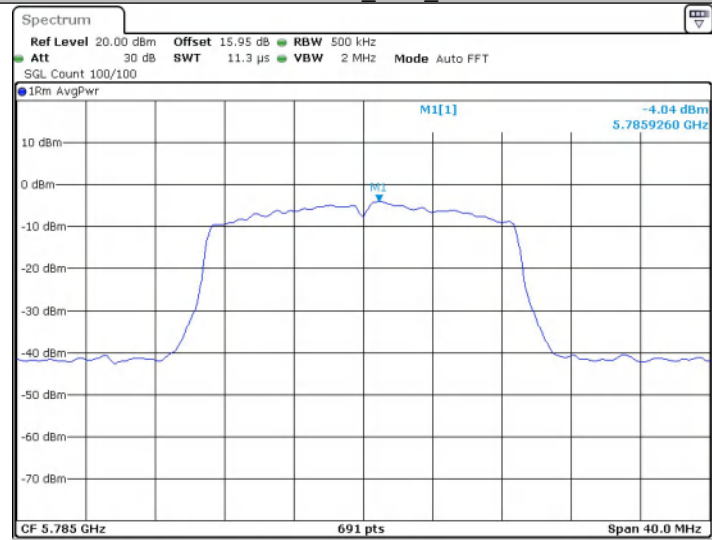
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11N20SISO_Ant2_5745

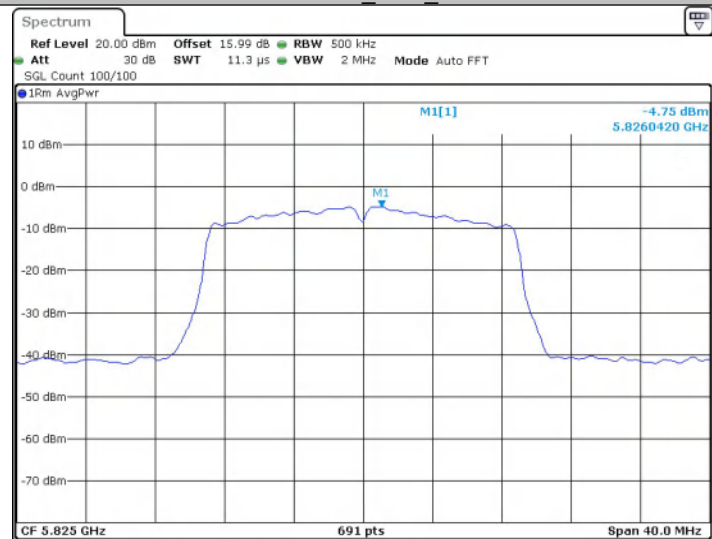


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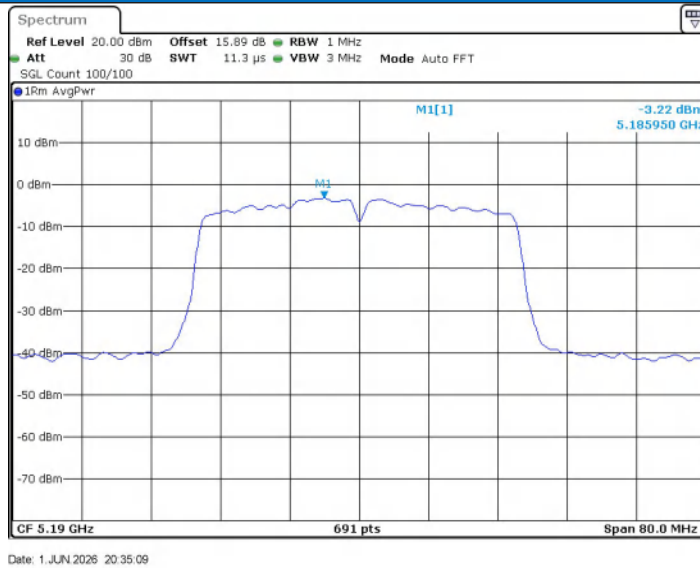
11N20SISO_Ant2_5785



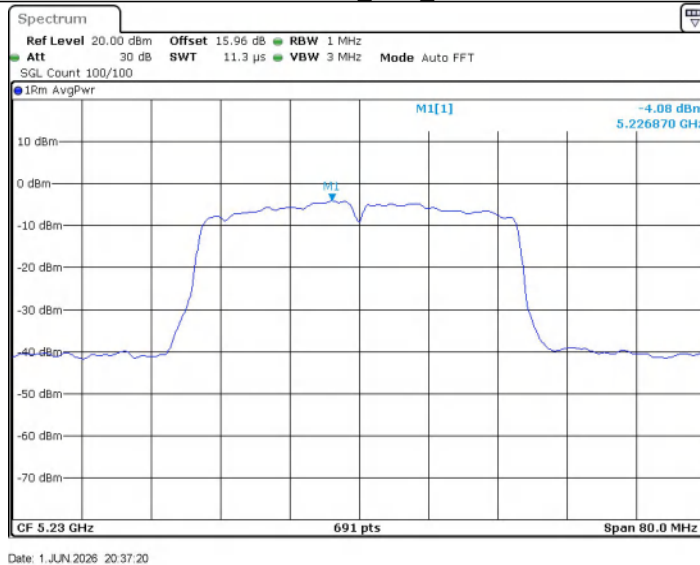
11N20SISO_Ant2_5825



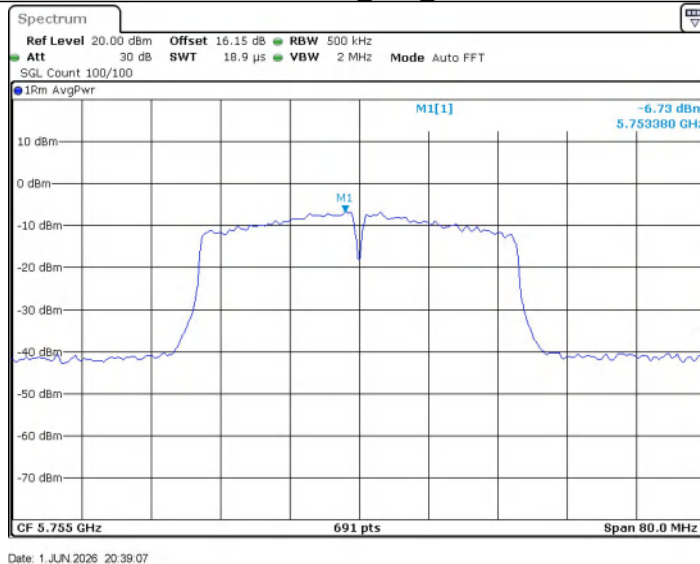
11N40SISO_Ant2_5190



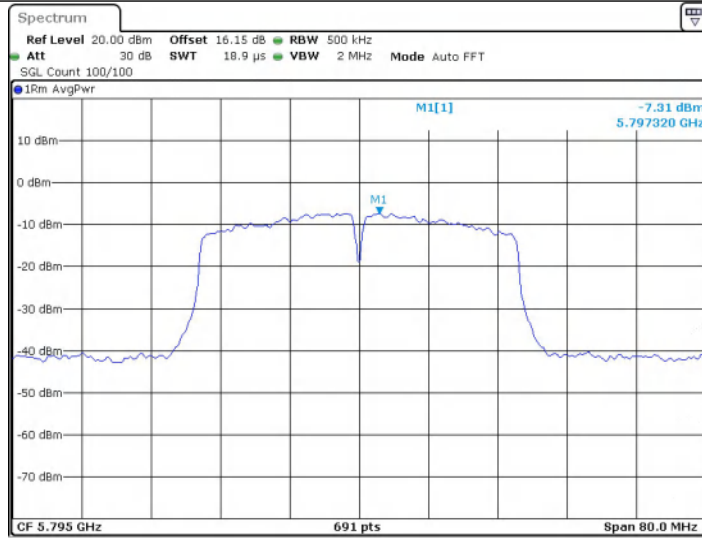
11N40SISO_Ant2_5230



11N40SISO_Ant2_5755

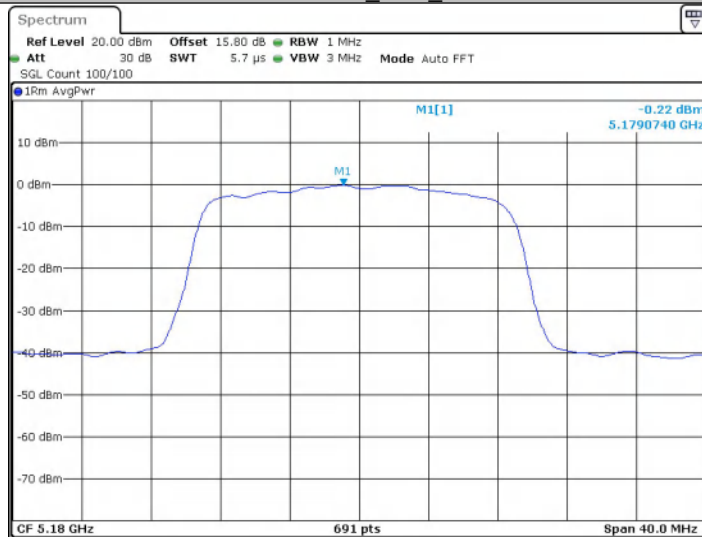


11N40SISO_Ant2_5795



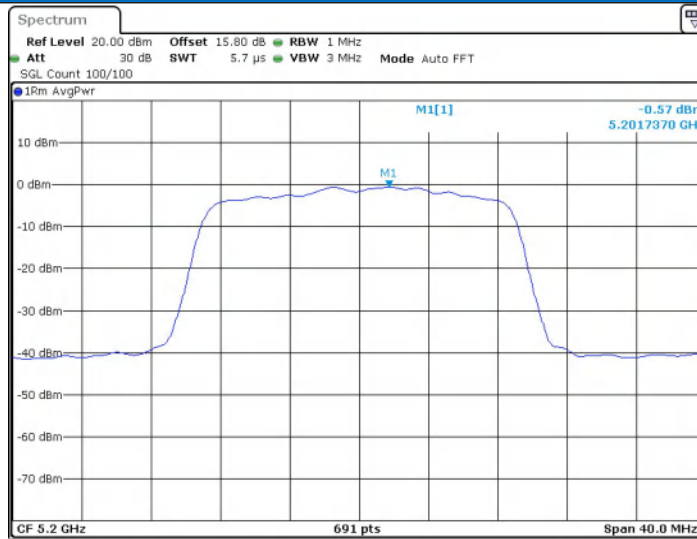
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11AC20SISO_Ant2_5180



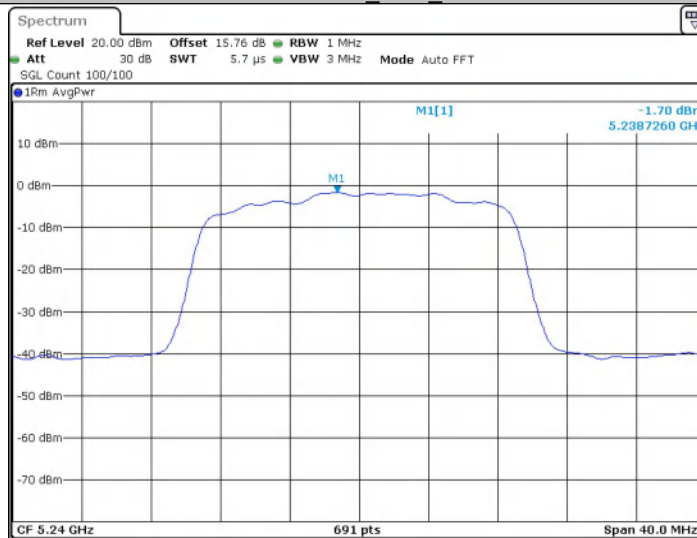
Date: 1 JUN 2026 20:46:18

11AC20SISO_Ant2_5200



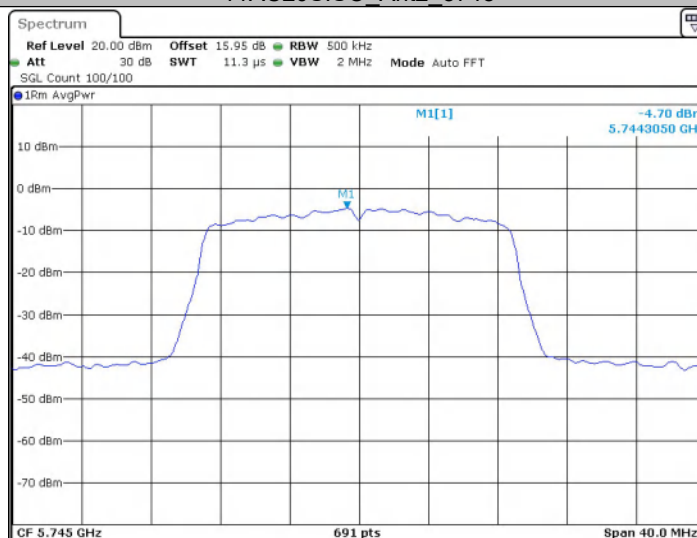
Date: 1 JUN 2026 20:48:03

11AC20SISO_Ant2_5240



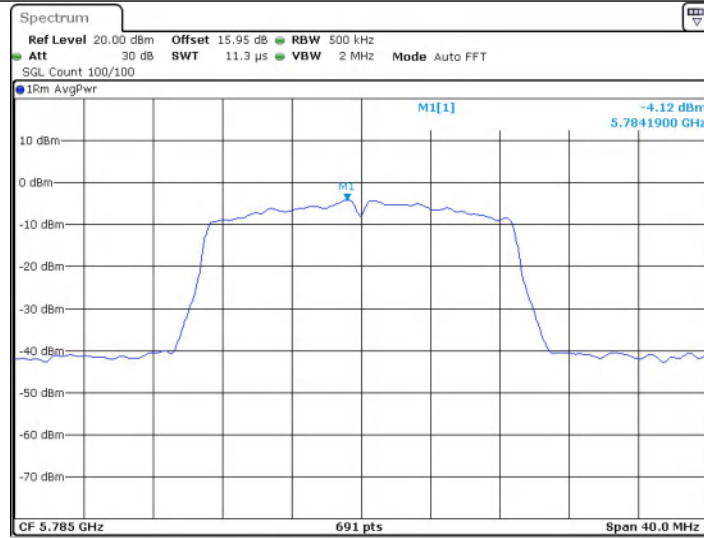
Date: 1 JUN 2026 21:13:03

11AC20SISO_Ant2_5745



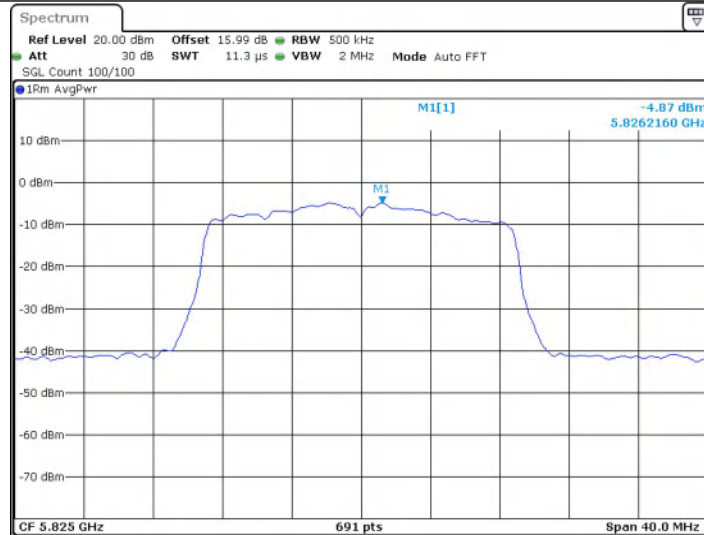
Date: 1 JUN 2026 21:15:33

11AC20SISO_Ant2_5785



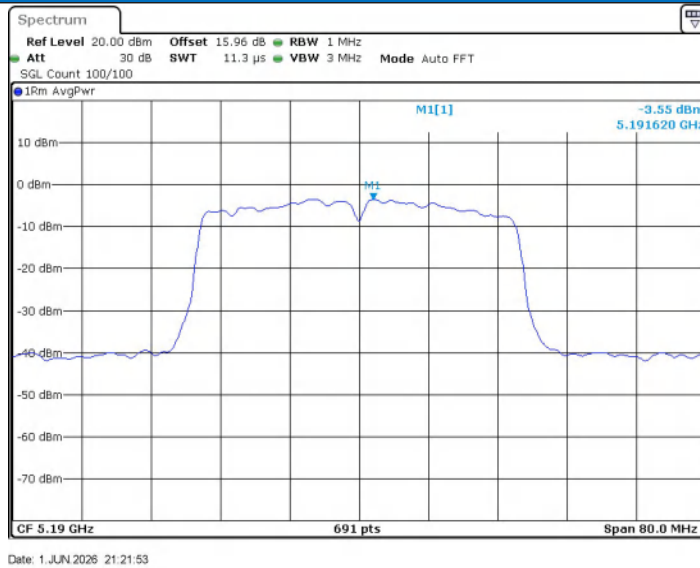
Date: 1 JUN 2026 21:17:45

11AC20SISO_Ant2_5825

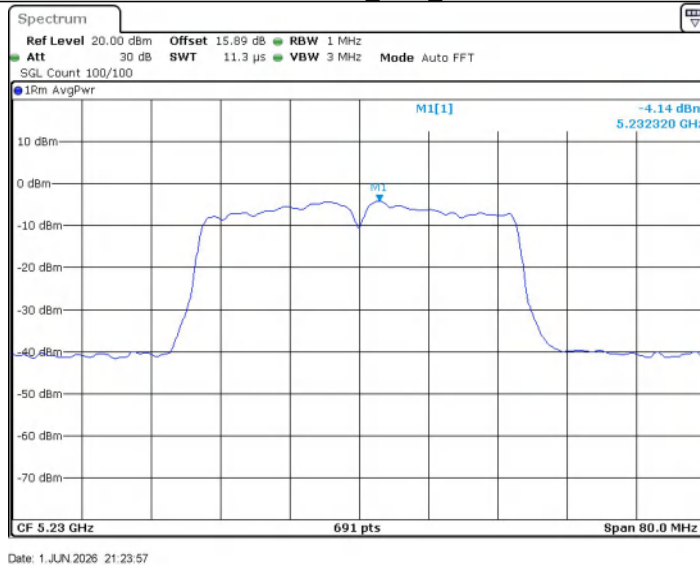


Date: 1 JUN 2026 21:19:36

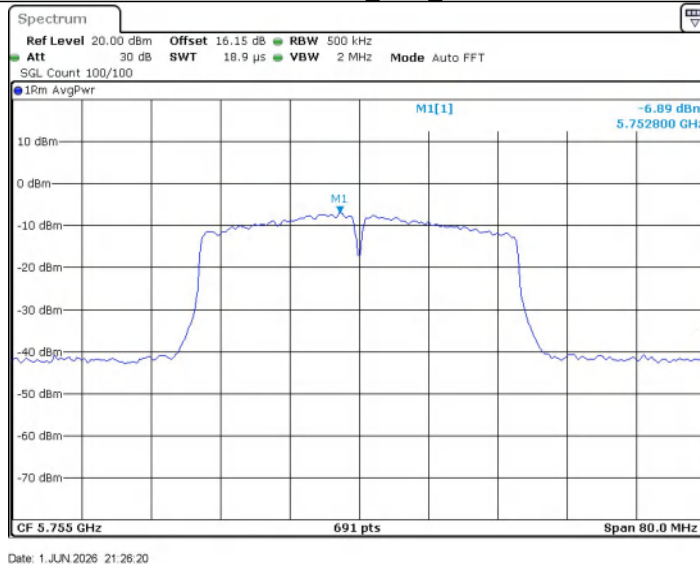
11AC40SISO_Ant2_5190



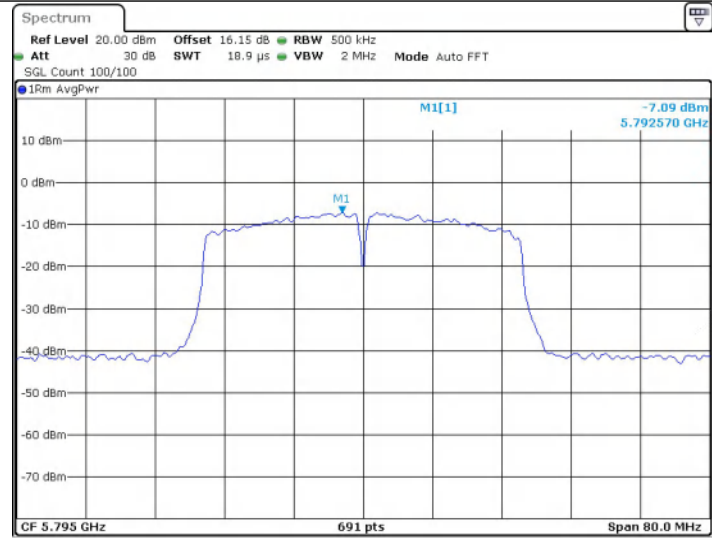
11AC40SISO_Ant2_5230



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



Date: 1 JUN 2026 21:28:39

Ant1+Ant2

TestMode	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	5180	3.47	≤11.00	PASS
	5200	3.03	≤11.00	PASS
	5240	1.82	≤11.00	PASS
	5745	-0.54	≤30.00	PASS
	5785	-0.42	≤30.00	PASS
	5825	-0.46	≤30.00	PASS
11N40MIMO	5190	-0.16	≤11.00	PASS
	5230	-1.17	≤11.00	PASS
	5755	-3.73	≤30.00	PASS
	5795	-4.35	≤30.00	PASS
11AC20MIMO	5180	2.77	≤11.00	PASS
	5200	2.14	≤11.00	PASS
	5240	1.43	≤11.00	PASS
	5745	-1.54	≤30.00	PASS
	5785	-1.28	≤30.00	PASS
	5825	-1.89	≤30.00	PASS
11AC40MIMO	5190	-0.35	≤11.00	PASS
	5230	-0.90	≤11.00	PASS
	5755	-3.54	≤30.00	PASS
	5795	-4.16	≤30.00	PASS

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

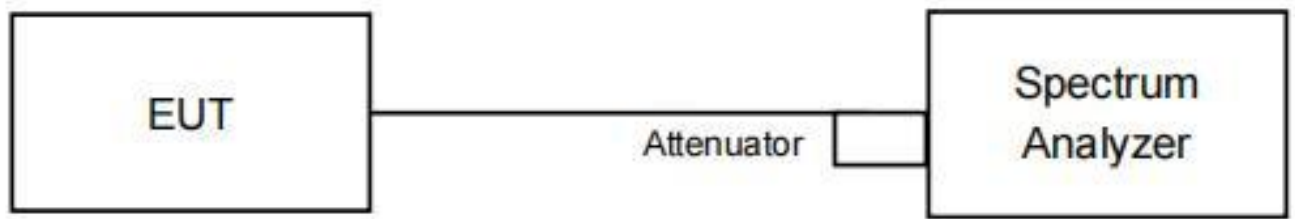
Test Procedure:

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



ANT1

Test Result B1

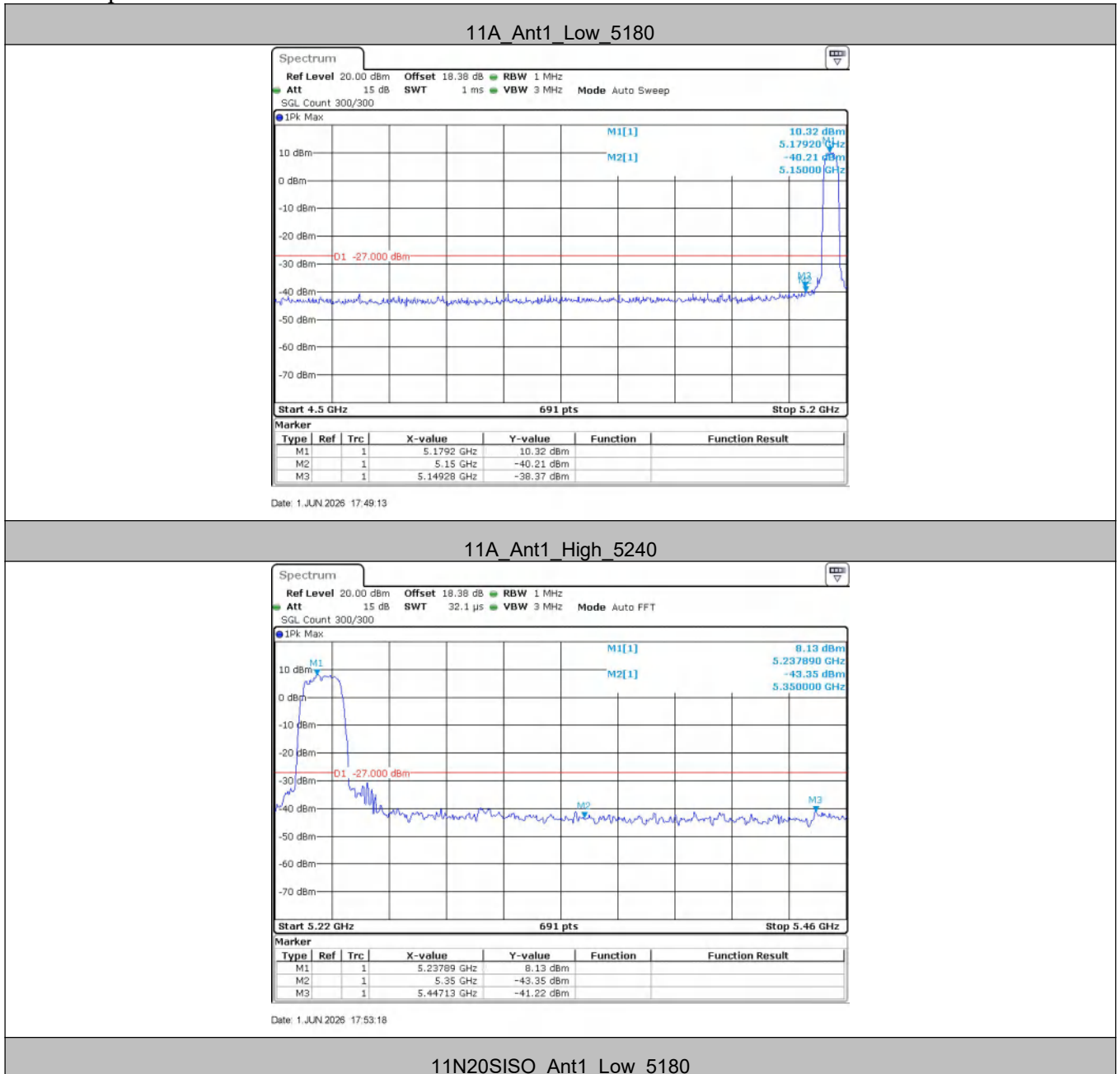
TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-38.37	≤-27	PASS
	High	5240	-41.22	≤-27	PASS
11N20SISO	Low	5180	-39.04	≤-27	PASS
	High	5240	-40.96	≤-27	PASS
11N40SISO	Low	5190	-34.3	≤-27	PASS
	High	5230	-41.35	≤-27	PASS
11AC20SISO	Low	5180	-40.03	≤-27	PASS
	High	5240	-41.1	≤-27	PASS
11AC40SISO	Low	5190	-40.28	≤-27	PASS
	High	5230	-40.18	≤-27	PASS

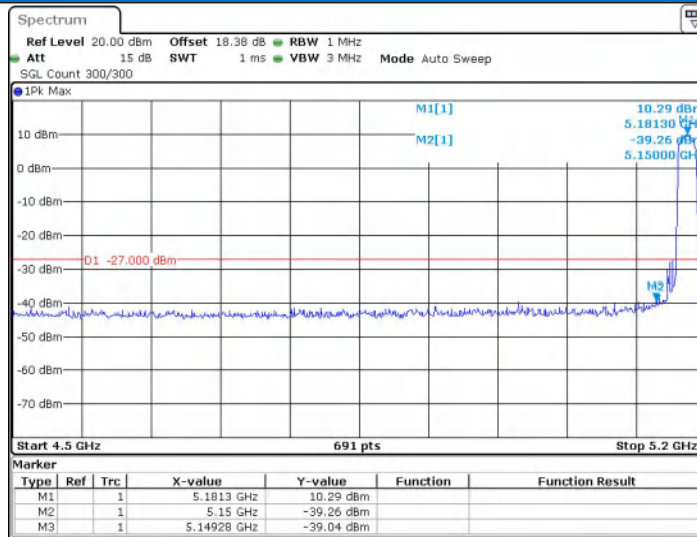
Test Result B4

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-40.57	≤-26.88	PASS
			5700~5720	-41.17	≤10.05	PASS
			5720~5725	-42.06	≤15.98	PASS
			5760~5650	-40.84	≤-27	PASS
	High	5825	5850~5855	-41.41	≤15.65	PASS
			5855~5875	-39.53	≤11.06	PASS
			5875~5925	-42.31	≤-26.58	PASS
			5925~5935	-38.28	≤-27	PASS
11N20SISO	Low	5745	5650~5700	-40.42	≤-26.38	PASS
			5700~5720	-41.24	≤10.65	PASS
			5720~5725	-31.82	≤22.06	PASS
			5760~5650	-39.57	≤-27	PASS
	High	5825	5850~5855	-38.87	≤15.65	PASS
			5855~5875	-40.33	≤10.46	PASS
			5875~5925	-39.41	≤-23.98	PASS
			5925~5935	-40.79	≤-27	PASS
11N40SISO	Low	5755	5650~5700	-41.06	≤-26.79	PASS
			5700~5720	-34.55	≤13.23	PASS
			5720~5725	-38.25	≤15.90	PASS
			5780~5650	-41.03	≤-27	PASS

	High	5795	5850~5855	-42.51	≤ 15.85	PASS
			5855~5875	-38.71	≤ 11.14	PASS
			5875~5925	-42.47	≤ -26.61	PASS
			5925~5935	-41.47	≤ -27	PASS
11AC20SIS O	Low	5745	5650~5700	-41.99	≤ -26.88	PASS
			5700~5720	-41.46	≤ 10.51	PASS
			5720~5725	-40.45	≤ 17.12	PASS
			5760~5650	-41.16	≤ -27	PASS
	High	5825	5850~5855	-41.57	≤ 15.65	PASS
			5855~5875	-40.75	≤ 10.02	PASS
			5875~5925	-40.46	≤ -25.42	PASS
			5925~5935	-40.5	≤ -27	PASS
11AC40SIS O	Low	5755	5650~5700	-41.24	≤ -26.50	PASS
			5700~5720	-41.45	≤ 10.05	PASS
			5720~5725	-41.36	≤ 15.90	PASS
			5780~5650	-40.94	≤ -27	PASS
	High	5795	5850~5855	-42.31	≤ 16.39	PASS
			5855~5875	-39.04	≤ 11.01	PASS
			5875~5925	-40.59	≤ -26.26	PASS
			5925~5935	-40.89	≤ -27	PASS

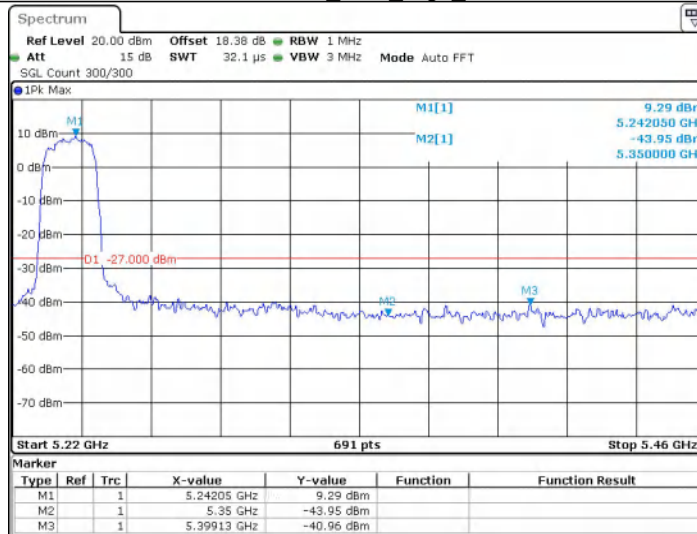
Test Graphs B1





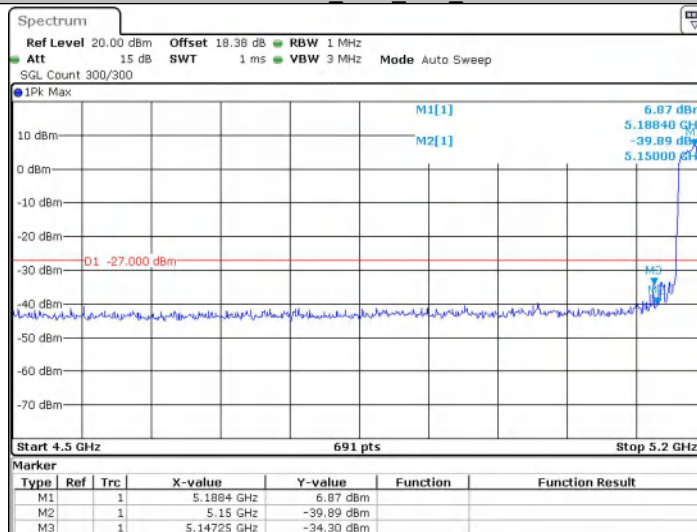
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11N20SISO_Ant1_High_5240



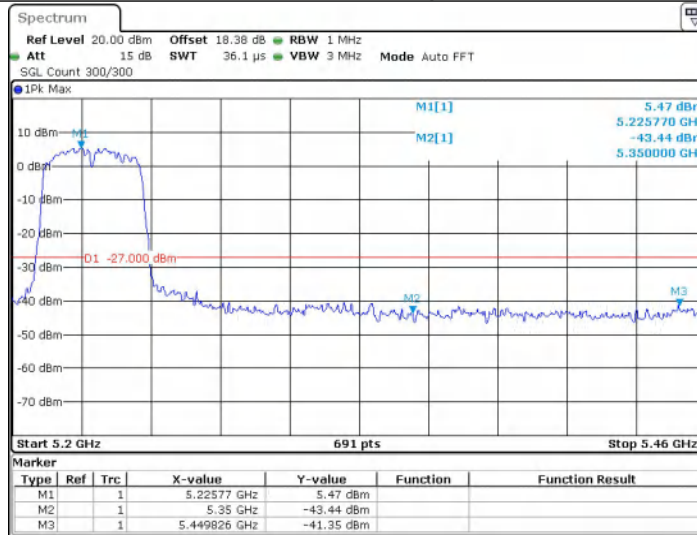
Date: 1 JUN 2026 18:12:03

11N40SISO_Ant1_Low_5190



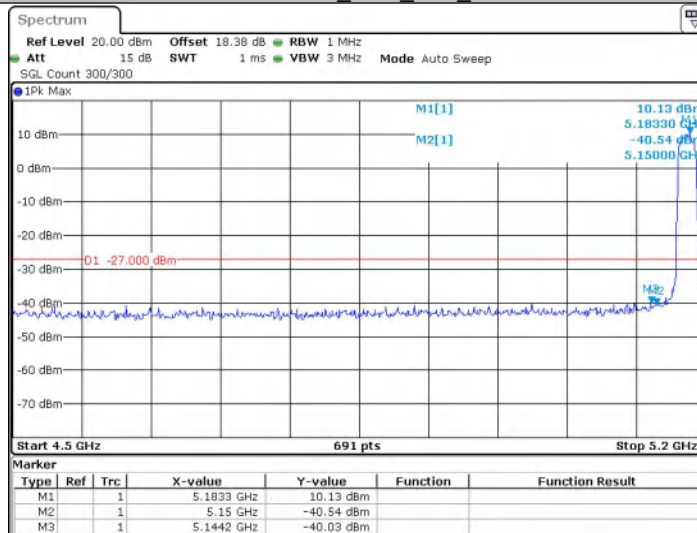
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11N40SISO_Ant1_High_5230



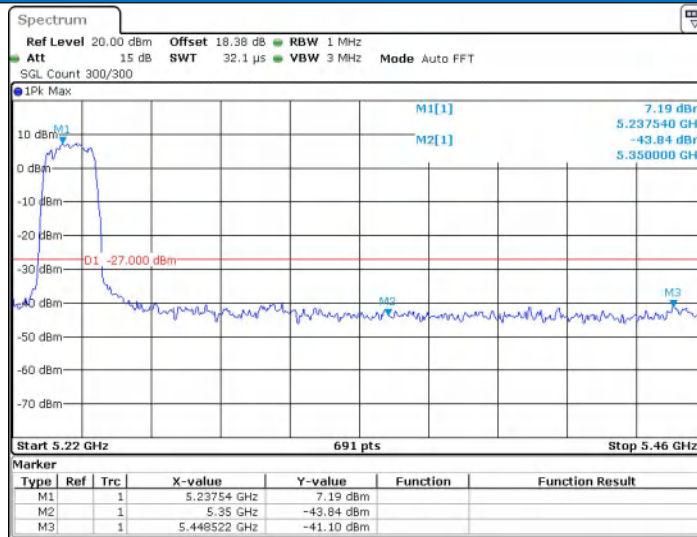
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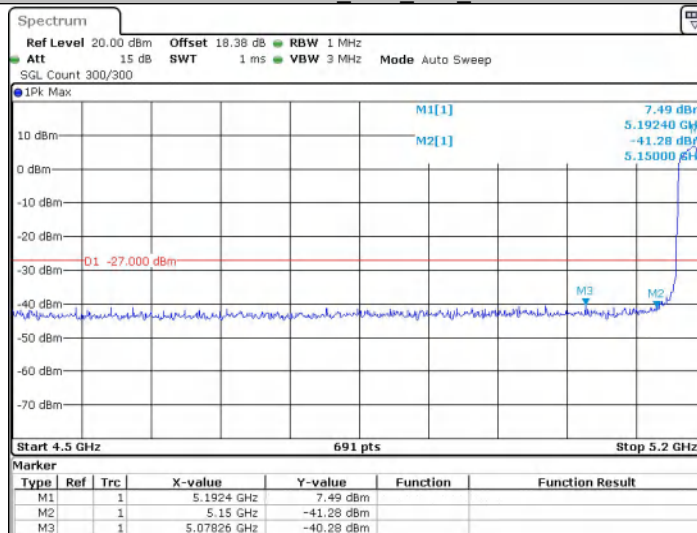
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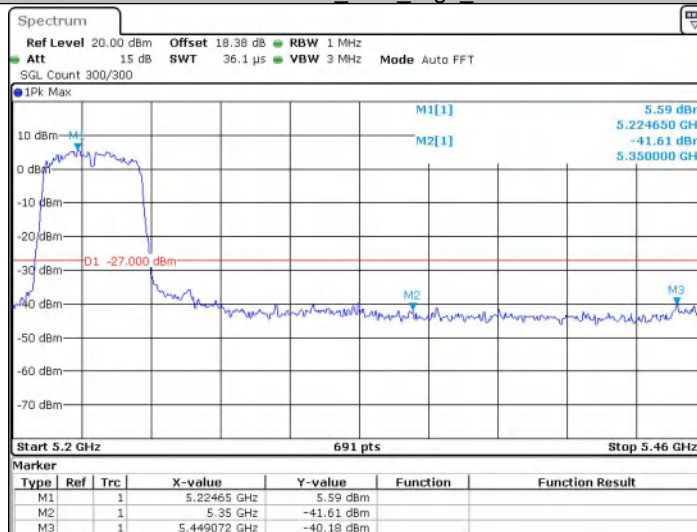
Date: 1 JUN 2026 18:46:20

11AC40SISO_Ant1_Low_5190



Date: 1 JUN 2026 19:50:13

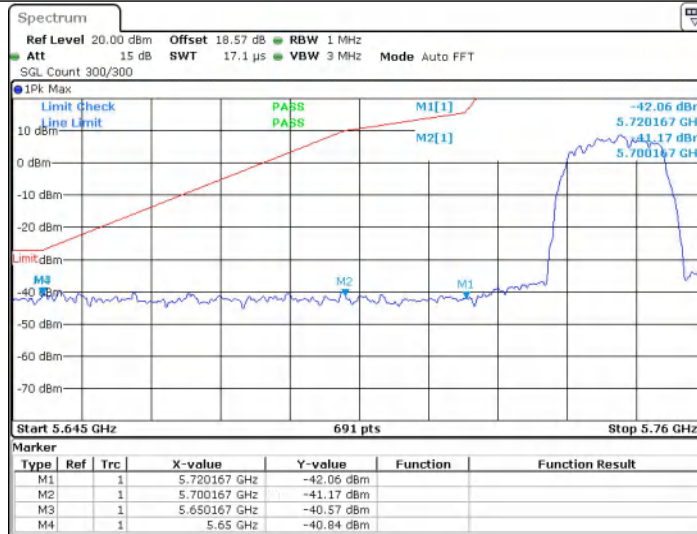
11AC40SISO_Ant1_High_5230



Date: 1 JUN 2026 19:55:12

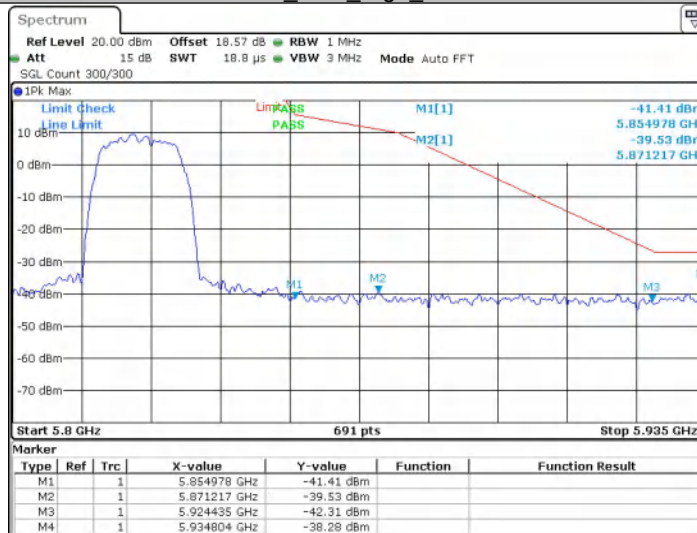
Test Graphs B4

11A_Ant1_Low_5745



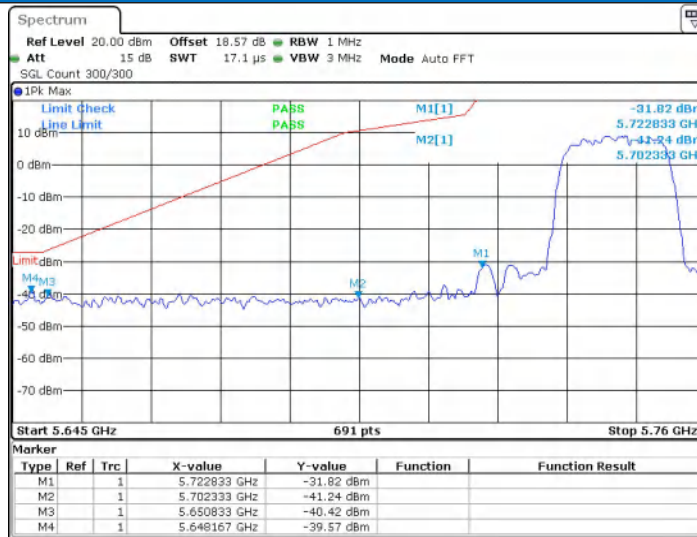
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11A_Ant1_High_5825



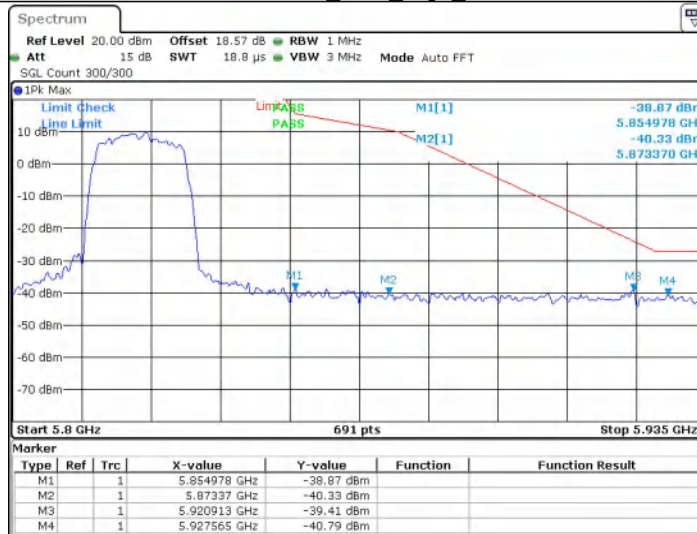
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11N20SISO_Ant1_Low_5745



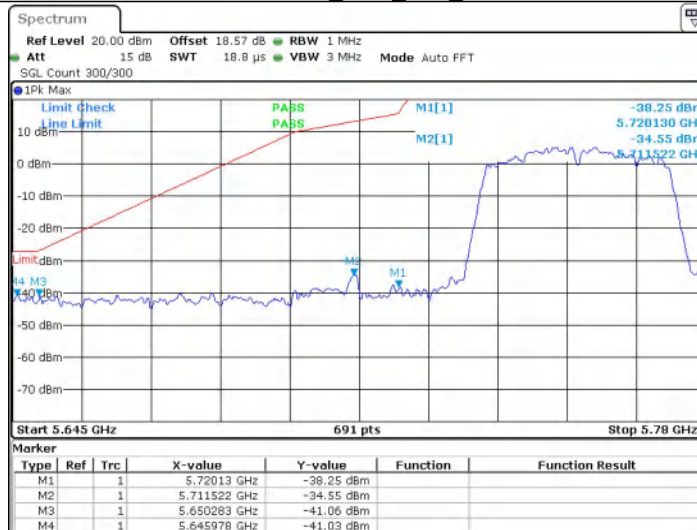
Date: 1 JUN 2026 16:13:37

11N20SISO_Ant1_High_5825



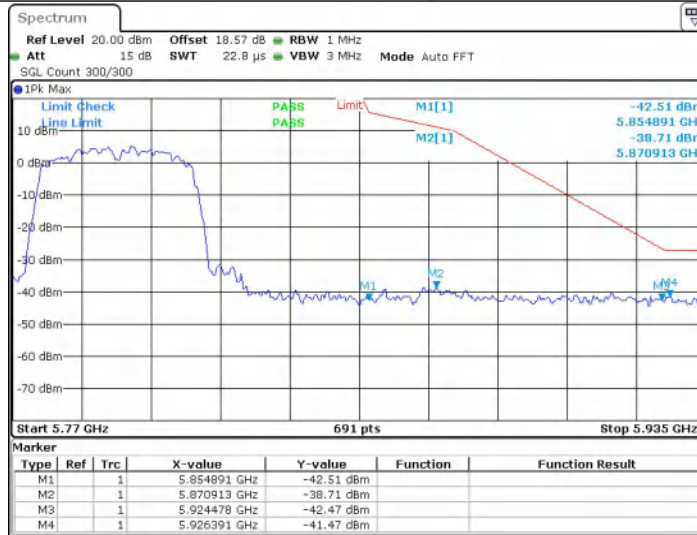
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11N40SISO_Ant1_Low_5755



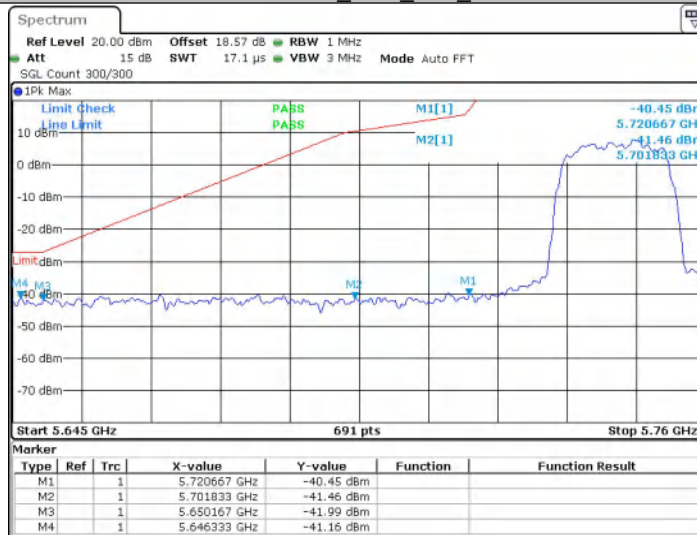
Date: 1 JUN 2026 16:37:20

11N40SISO_Ant1_High_5795



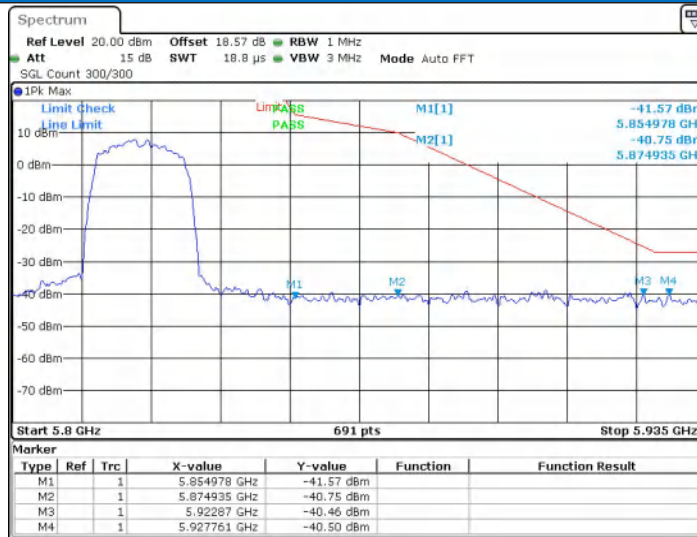
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11AC20SISO_Ant1_Low_5745



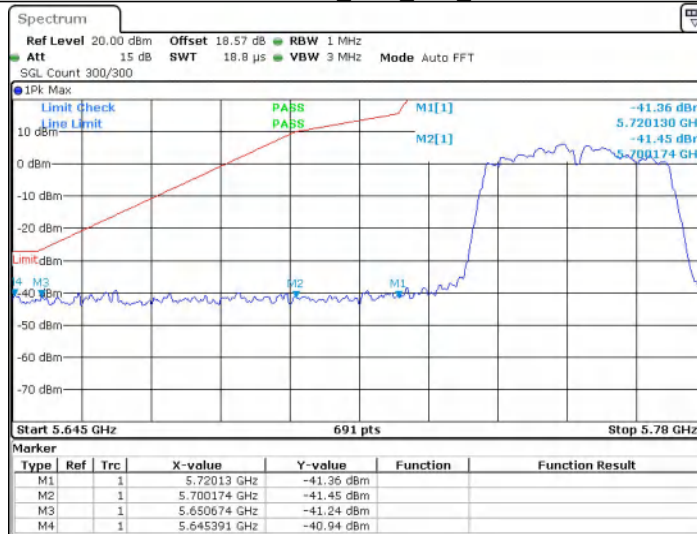
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11AC20SISO_Ant1_High_5825



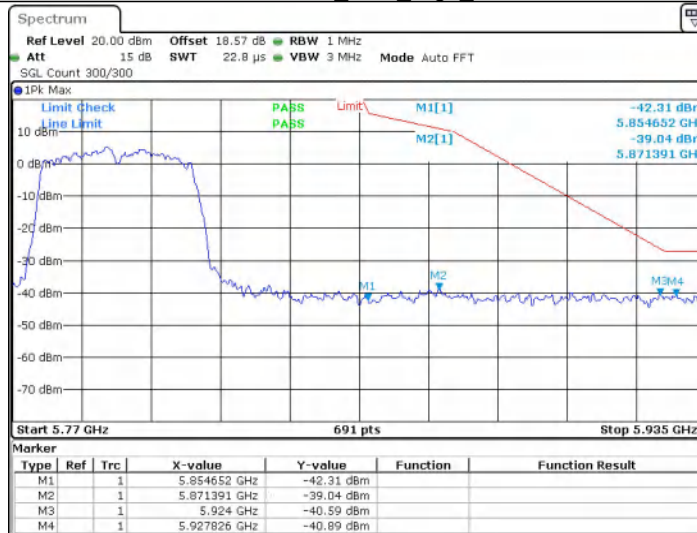
Date: 1 JUN 2026 19:48:03

11AC40SISO_Ant1_Low_5755



Date: 1 JUN 2026 19:56:59

11AC40SISO_Ant1_High_5795



Date: 1 JUN 2026 19:58:55

ANT2

Test Result B1

TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-42.11	≤-27	PASS
	High	5240	-45.44	≤-27	PASS
11N20SISO	Low	5180	-41.75	≤-27	PASS
	High	5240	-45.62	≤-27	PASS
11N40SISO	Low	5190	-37.58	≤-27	PASS
	High	5230	-45.19	≤-27	PASS
11AC20SISO	Low	5180	-41.63	≤-27	PASS
	High	5240	-46.48	≤-27	PASS
11AC40SISO	Low	5190	-39.3	≤-27	PASS
	High	5230	-46.09	≤-27	PASS

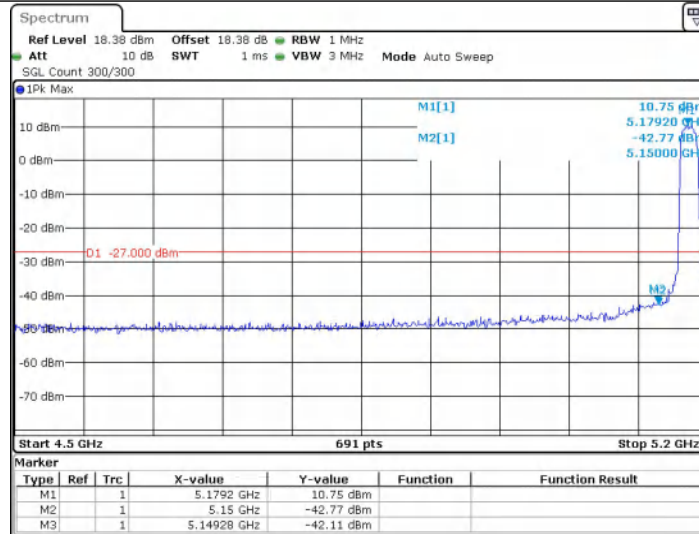
Test Result B4

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-45.87	≤-26.88	PASS
			5700~5720	-44.34	≤10.05	PASS
			5720~5725	-42.73	≤15.98	PASS
			5760~5650	-44.09	≤-27	PASS
	High	5825	5850~5855	-44.16	≤15.65	PASS
			5855~5875	-44.14	≤10.02	PASS
			5875~5925	-46.91	≤-26.87	PASS
			5925~5935	-46.14	≤-27	PASS
11N20SISO	Low	5745	5650~5700	-45.01	≤-26.88	PASS
			5700~5720	-30.27	≤15.60	PASS
			5720~5725	-30.17	≤15.98	PASS
			5760~5650	-44.94	≤-27	PASS
	High	5825	5850~5855	-42.74	≤15.65	PASS
			5855~5875	-44.73	≤10.35	PASS
			5875~5925	-45.67	≤-26.73	PASS
			5925~5935	-45.49	≤-27	PASS
11N40SISO	Low	5755	5650~5700	-42.91	≤-26.94	PASS
			5700~5720	-31.98	≤13.12	PASS
			5720~5725	-32.52	≤17.24	PASS
			5780~5650	-42.68	≤-27	PASS

	High	5795	5850~5855	-39.41	≤ 15.85	PASS
			5855~5875	-42.95	≤ 11.21	PASS
			5875~5925	-46.8	≤ -26.61	PASS
			5925~5935	-45.29	≤ -27	PASS
11AC20SIS O	Low	5745	5650~5700	-46.25	≤ -26.63	PASS
			5700~5720	-43.16	≤ 10.61	PASS
			5720~5725	-29.88	≤ 20.92	PASS
			5760~5650	-44.41	≤ -27	PASS
	High	5825	5850~5855	-43.94	≤ 15.65	PASS
			5855~5875	-43.45	≤ 10.89	PASS
			5875~5925	-46.24	≤ -26.87	PASS
			5925~5935	-43.51	≤ -27	PASS
11AC40SIS O	Low	5755	5650~5700	-44.68	≤ -26.65	PASS
			5700~5720	-42.31	≤ 10.76	PASS
			5720~5725	-43.96	≤ 15.90	PASS
			5780~5650	-44.28	≤ -27	PASS
	High	5795	5850~5855	-42.87	≤ 15.85	PASS
			5855~5875	-43.75	≤ 10.07	PASS
			5875~5925	-44.95	≤ -26.26	PASS
			5925~5935	-45.42	≤ -27	PASS

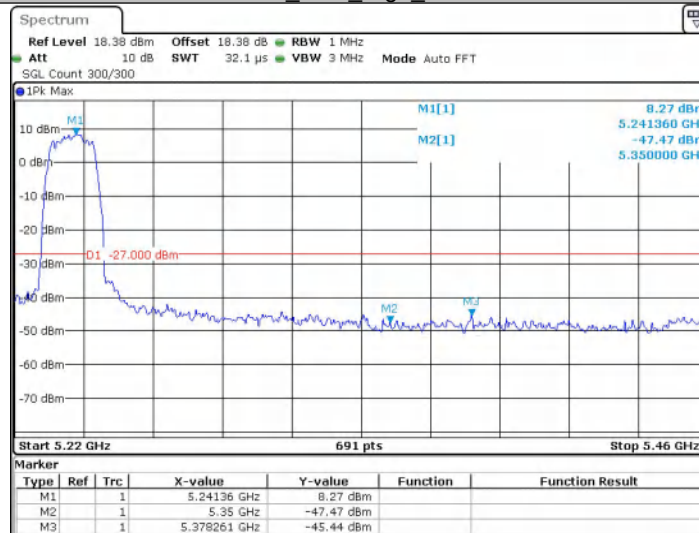
Test Graphs B1

11A_Ant2_Low_5180



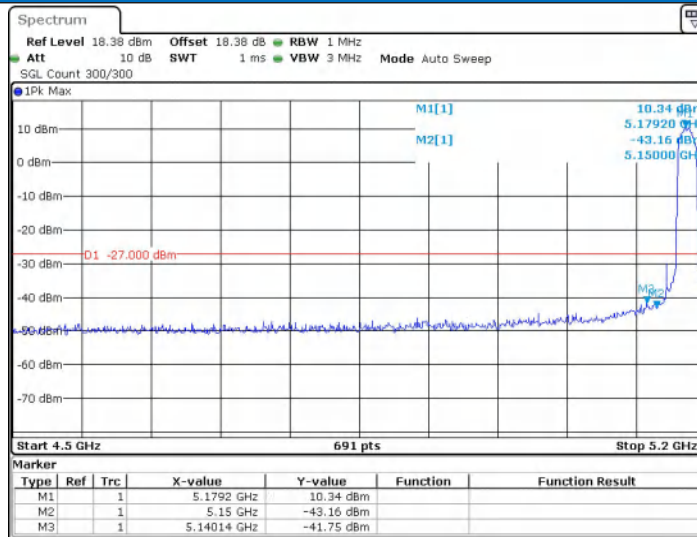
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11A_Ant2_High_5240



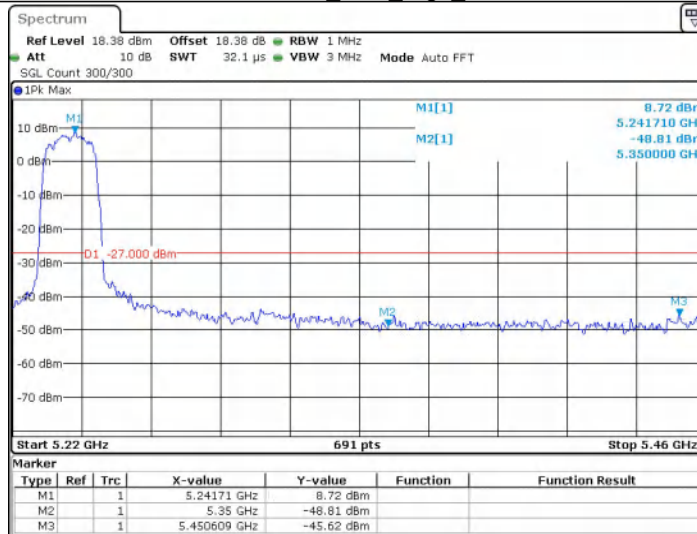
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11N20SISO_Ant2_Low_5180



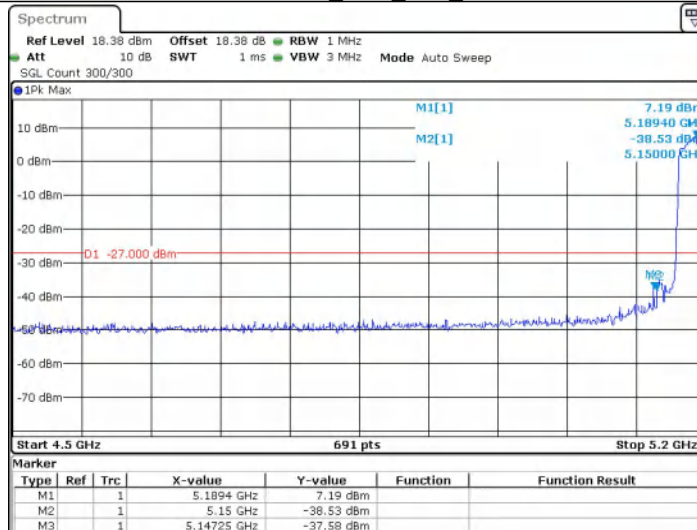
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11N20SISO Ant2 High 5240



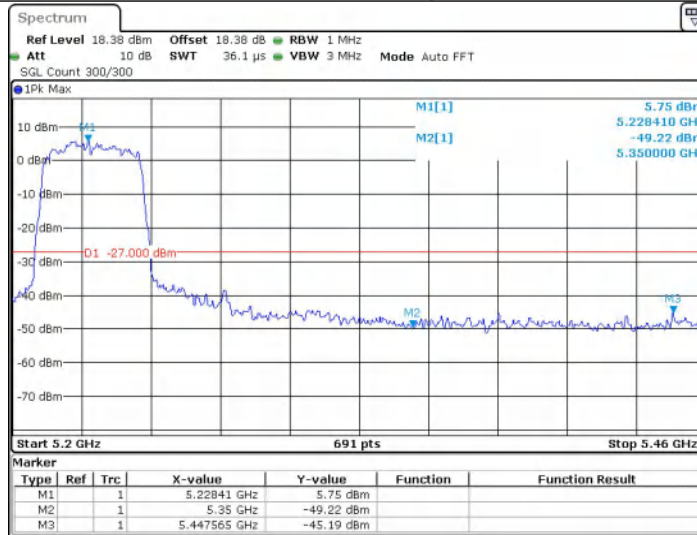
Date: 1 JUN 2026 20:26:44

11N40SISO Ant2 Low 5190



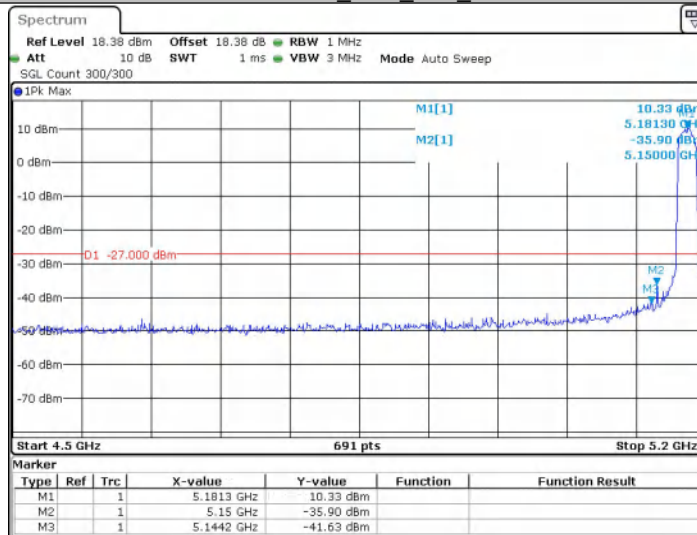
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11N40SISO_Ant2_High_5230



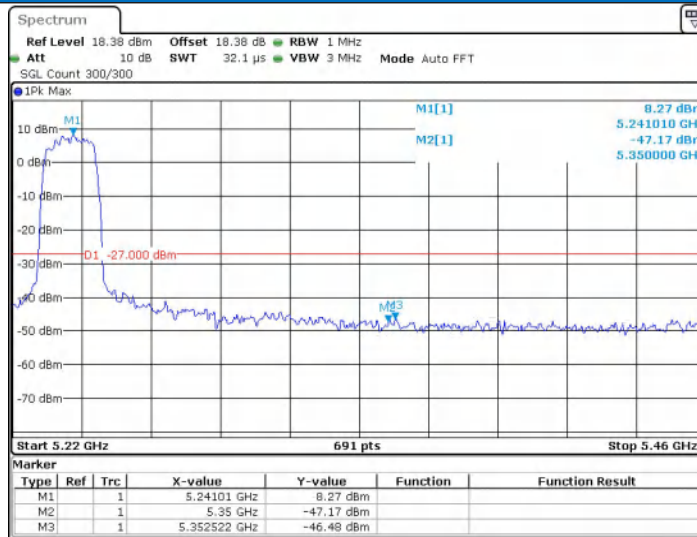
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11AC20SISO_Ant2_Low_5180



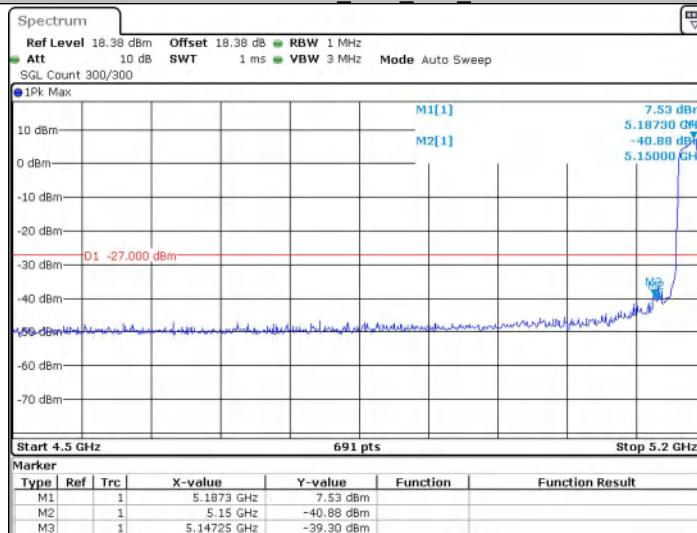
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11AC20SISO_Ant2_High_5240



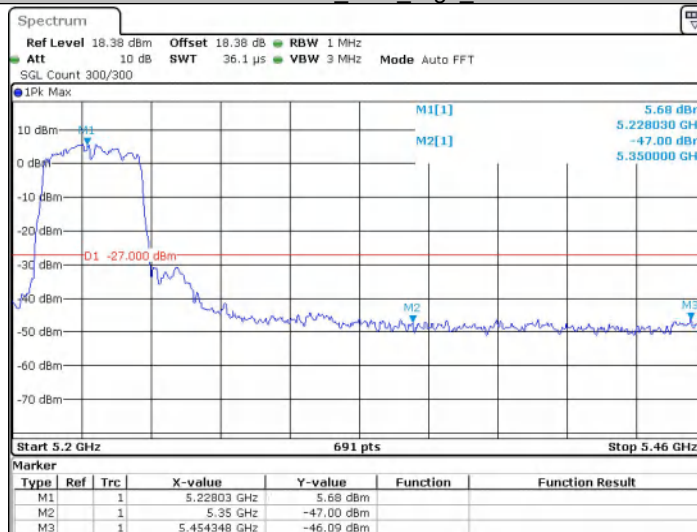
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11AC40SISO_Ant2_Low_5190



Date: 1 JUN 2026 21:22:02

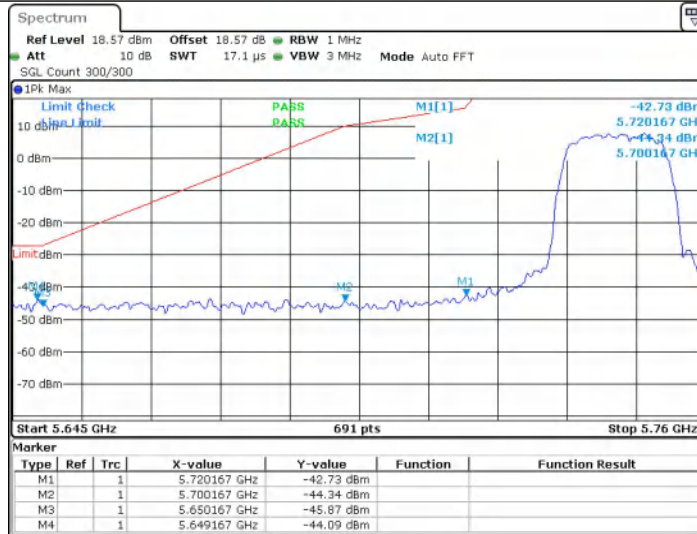
11AC40SISO_Ant2_High_5230



Date: 1 JUN 2026 21:24:11

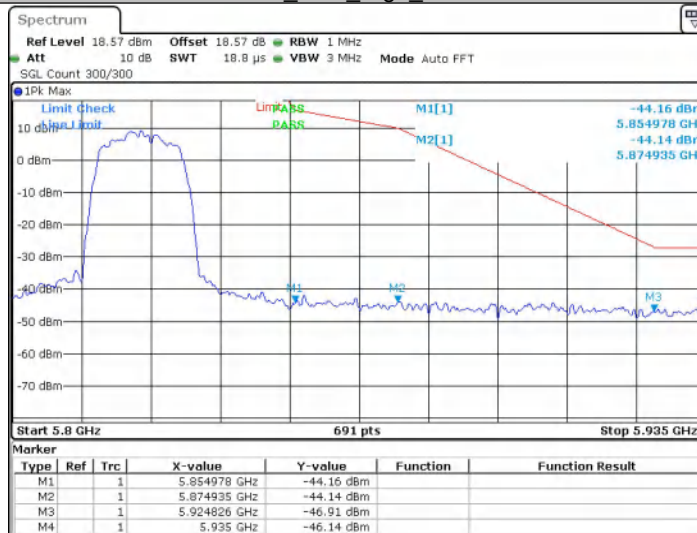
Test Graphs B4

11A_Ant2_Low_5745



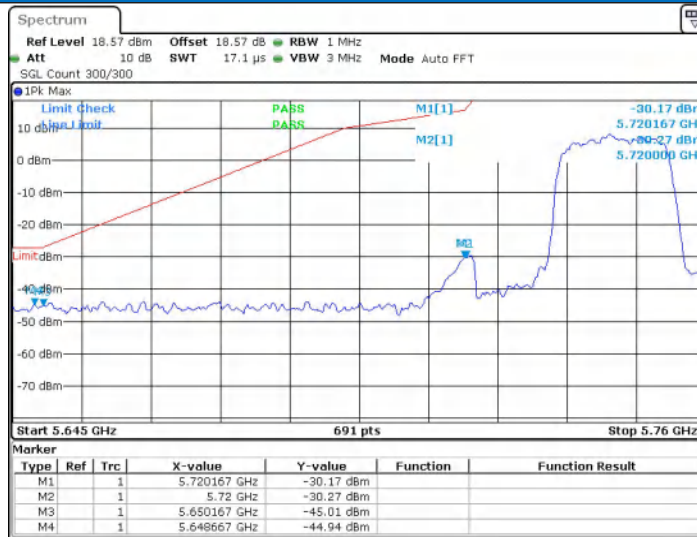
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11A_Ant2_High_5825



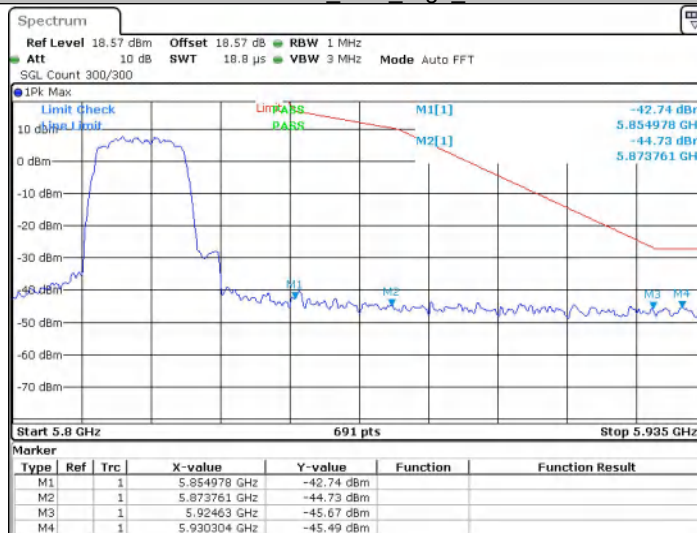
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11N20SISO_Ant2_Low_5745



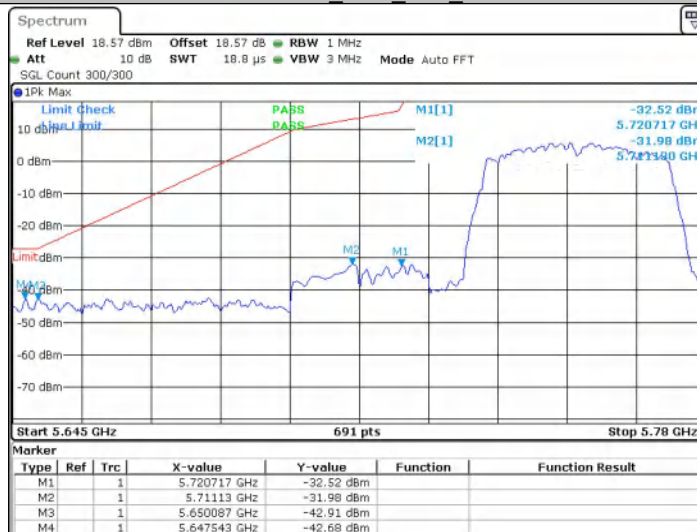
Date: 1 JUN 2026 20:28:20

11N20ISO Ant2 High 5825



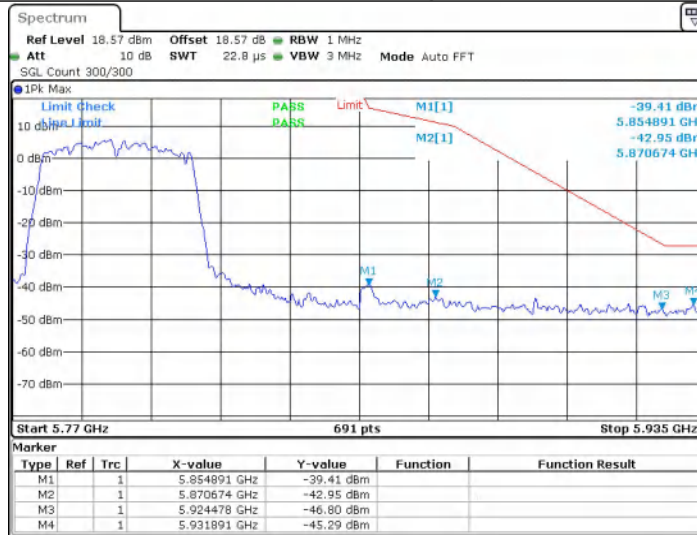
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11N40ISO Ant2 Low 5755



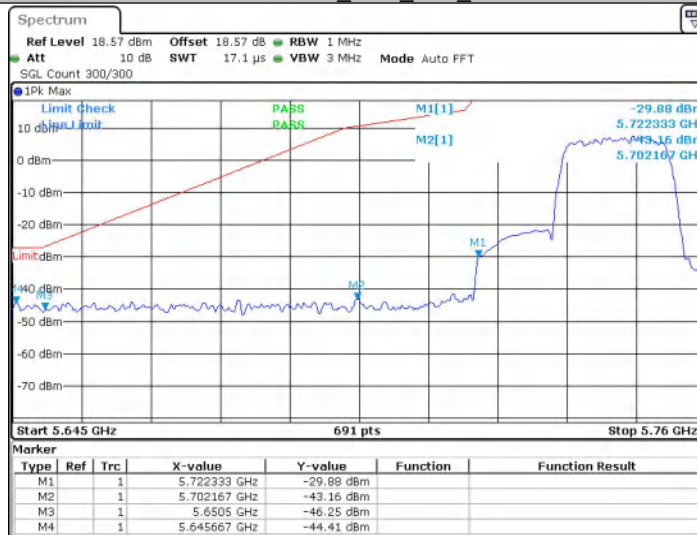
Date: 1 JUN 2026 20:39:16

11N40SISO_Ant2_High_5795



Date: 1 JUN 2026 20:43:57

11AC20SISO_Ant2_Low_5745



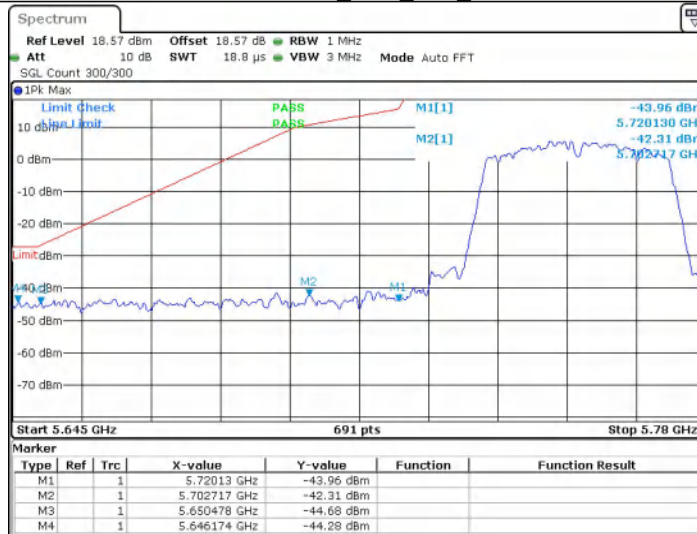
Date: 1 JUN 2026 21:15:41

11AC20SISO_Ant2_High_5825



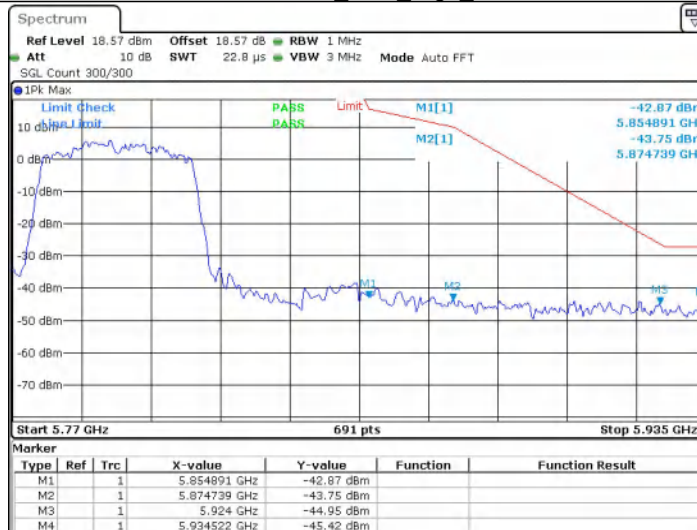
Date: 1 JUN 2026 21:19:46

11AC40SISO_Ant2_Low_5755



Date: 1 JUN 2026 21:26:29

11AC40SISO_Ant2_High_5795



Date: 1 JUN 2026 21:28:50

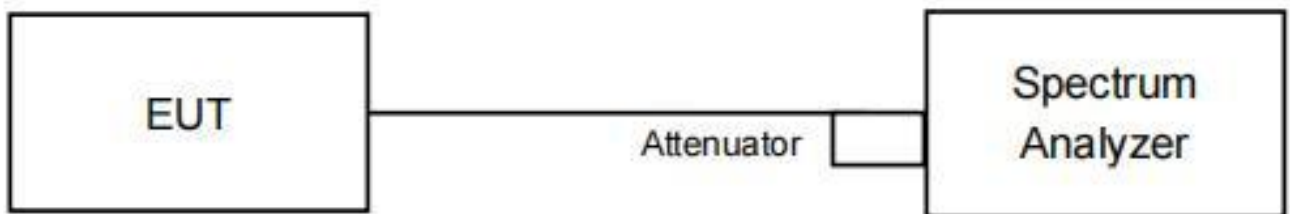
Appendix E): Frequency Stability

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

Test Method: ANSI C63.10 (2020) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Test Setup Diagram



Measurement Data

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp	Voltage	Measured Frequency	Limit
(°C)		(MHz)	(MHz)
50	VN	5240.41	5150-5250
40		5240.12	5150-5250
30		5240.25	5150-5250
20		5240.53	5150-5250
10		5240.45	5150-5250
0		5240.58	5150-5250
-10		5240.44	5150-5250
-30		5240.63	5150-5250

Frequency Stability Versus Temp.			
Operating Frequency: 5210 MHz			
Temp.	Voltage	Measured Frequency	Limit
		(MHz)	(MHz)
TN	VL	5210.25	5150-5250
	VN	5210.26	5150-5250
	VH	5210.74	5150-5250

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

Appendix F): Antenna Requirement

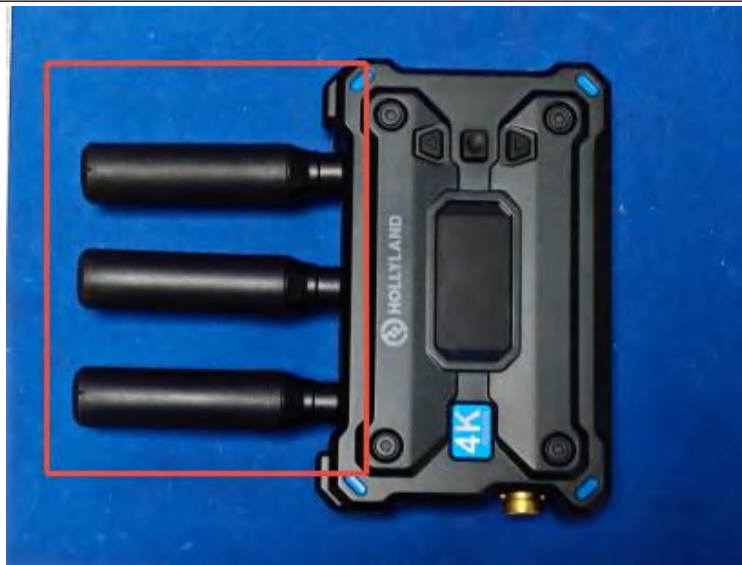
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is SMAJ antenna .

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling.

This is either permanently attachment or a unique coupling that satisfies the requirement.

Appendix G): Operation in the absence of information to the transmit

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)

Appendix H): AC Power Line Conducted Emission

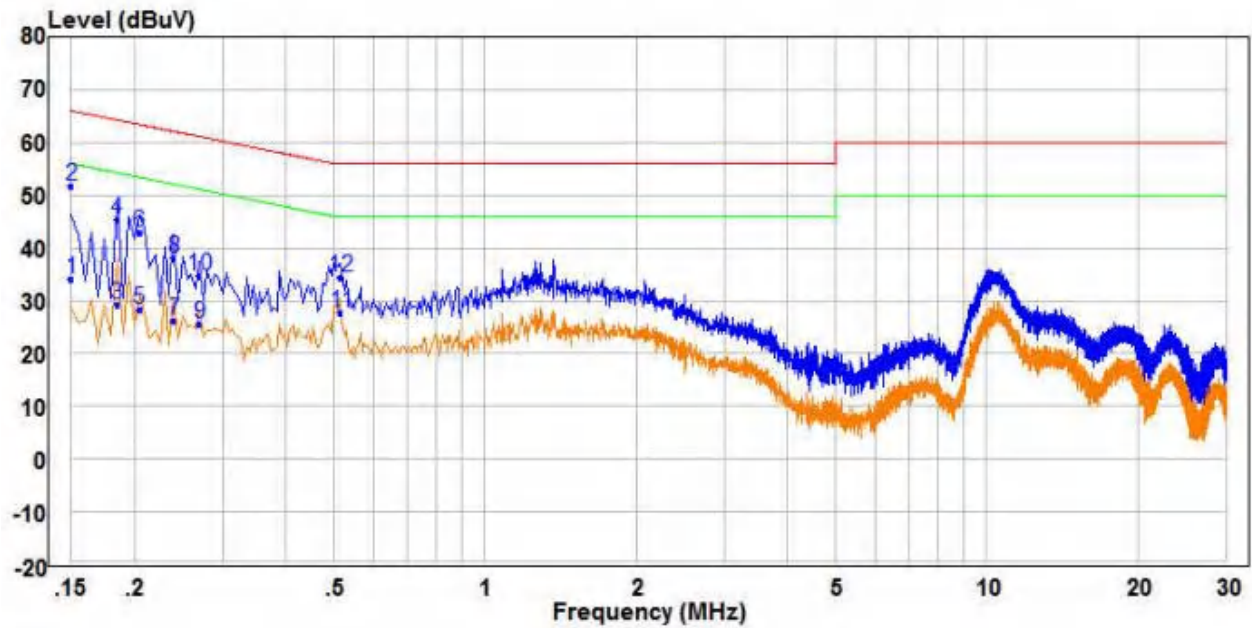
Test Procedure:	Test frequency range :150KHz-30MHz 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> * The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

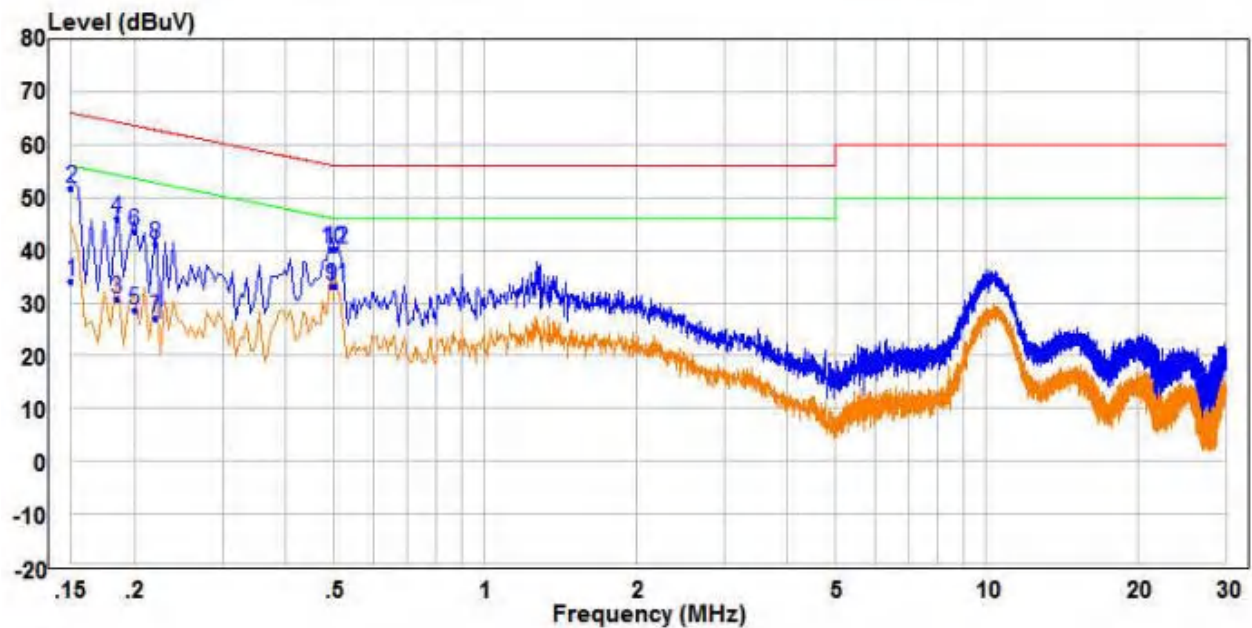
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.150	24.27	9.70	33.97	56.00	-22.03	Average	Line
2 PP	0.150	41.96	9.70	51.66	66.00	-14.34	QP	Line
3	0.185	19.71	9.64	29.35	54.26	-24.91	Average	Line
4	0.185	35.58	9.64	45.22	64.26	-19.04	QP	Line
5	0.205	18.65	9.61	28.26	53.41	-25.15	Average	Line
6	0.205	33.42	9.61	43.03	63.41	-20.38	QP	Line
7	0.240	16.64	9.56	26.20	52.10	-25.90	Average	Line
8	0.240	28.66	9.56	38.22	62.10	-23.88	QP	Line
9	0.270	16.23	9.52	25.75	51.12	-25.37	Average	Line
10	0.270	25.18	9.52	34.70	61.12	-26.42	QP	Line
11 AV	0.515	17.93	9.72	27.65	46.00	-18.35	Average	Line
12	0.515	24.66	9.72	34.38	56.00	-21.62	QP	Line

Neutral line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.150	24.36	9.70	34.06	56.00	-21.94	Average	Neutral
2 QP	0.150	42.07	9.70	51.77	66.00	-14.23	QP	Neutral
3	0.185	21.09	9.63	30.72	54.26	-23.54	Average	Neutral
4	0.185	36.27	9.63	45.90	64.26	-18.36	QP	Neutral
5	0.200	19.01	9.61	28.62	53.61	-24.99	Average	Neutral
6	0.200	33.90	9.61	43.51	63.61	-20.10	QP	Neutral
7	0.220	17.48	9.58	27.06	52.82	-25.76	Average	Neutral
8	0.220	31.48	9.58	41.06	62.82	-21.76	QP	Neutral
9 PP	0.495	23.59	9.70	33.29	46.08	-12.79	Average	Neutral
10	0.495	30.64	9.70	40.34	56.08	-15.74	QP	Neutral
11	0.505	23.44	9.71	33.15	46.00	-12.85	Average	Neutral
12	0.505	30.50	9.71	40.21	56.00	-15.79	QP	Neutral

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. The 6Mbps of rate of 802.11A_5240 is the worst case, only the worst data recorded in the report.

Appendix I): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:	Below 1GHz test procedure as below: - The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Above 1GHz test procedure as below: - Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre). - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. - Repeat above procedures until all frequencies measured was complete.				
Limit:	Frequency	Limit (dBμV/m @3cm)	Remark		
	30MHz-88MHz	40.0	Quasi-peak Value		
	88MHz-216MHz	43.5	Quasi-peak Value		
	216MHz-960MHz	46.0	Quasi-peak Value		
	960MHz-1GHz	54.0	Quasi-peak Value		
	Above 1GHz	54.0	Average Value		
		74.0	Peak Value		

Test plot as follows:

Ant1

Worse case mode:		802.11a		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.84	-3.63	55.21	74	-18.79	peak	H	1.5	89
5150.00	44.76	-3.63	41.13	54	-12.87	AVG	H	1.5	291
5150.00	59.39	-3.63	55.76	74	-18.24	peak	V	1.5	260
5150.00	46.71	-3.63	43.08	54	-10.92	AVG	V	1.5	63

Worse case mode:		802.11a		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.24	-3.59	54.65	74	-19.35	peak	H	1.5	36
5350.00	44.86	-3.59	41.27	54	-12.73	AVG	H	1.5	108
5350.00	59.49	-3.59	55.90	74	-18.10	peak	V	1.5	32
5350.00	46.67	-3.59	43.08	54	-10.92	AVG	V	1.5	96

Worse case mode:		802.11a		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	58.02	-3.44	54.58	74	-19.42	peak	H	1.5	346
5470.00	44.39	-3.44	40.95	54	-13.05	AVG	H	1.5	132
5470.00	58.13	-3.44	54.69	74	-19.31	peak	V	1.5	18
5470.00	46.10	-3.44	42.66	54	-11.34	AVG	V	1.5	10

Worse case mode:		802.11a		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	59.04	-3.42	55.62	74	-18.38	peak	H	1.5	146
5850.00	44.45	-3.42	41.03	54	-12.97	AVG	H	1.5	123
5850.00	59.96	-3.42	56.54	74	-17.46	peak	V	1.5	263
5850.00	46.42	-3.42	43.00	54	-11.00	AVG	V	1.5	330

Ant2

Worse case mode:		802.11a		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.71	-3.63	55.08	74	-18.92	peak	H	1.5	21
5150.00	44.37	-3.63	40.74	54	-13.26	AVG	H	1.5	319
5150.00	60.20	-3.63	56.57	74	-17.43	peak	V	1.5	48
5150.00	46.06	-3.63	42.43	54	-11.57	AVG	V	1.5	157

Worse case mode:		802.11a		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.60	-3.59	55.01	74	-18.99	peak	H	1.5	248
5350.00	44.10	-3.59	40.51	54	-13.49	AVG	H	1.5	94
5350.00	60.07	-3.59	56.48	74	-17.52	peak	V	1.5	135
5350.00	46.64	-3.59	43.05	54	-10.95	AVG	V	1.5	108

Worse case mode:		802.11a		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	58.16	-3.44	54.72	74	-19.28	peak	H	1.5	221
5470.00	43.91	-3.44	40.47	54	-13.53	AVG	H	1.5	147
5470.00	57.65	-3.44	54.21	74	-19.79	peak	V	1.5	23
5470.00	46.32	-3.44	42.88	54	-11.12	AVG	V	1.5	159

Worse case mode:		802.11a		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.43	-3.42	55.01	74	-18.99	peak	H	1.5	227
5850.00	44.57	-3.42	41.15	54	-12.85	AVG	H	1.5	315
5850.00	59.69	-3.42	56.27	74	-17.73	peak	V	1.5	274
5850.00	46.22	-3.42	42.80	54	-11.20	AVG	V	1.5	212

Ant1+Ant2

Worse case mode:		802.11n(HT20)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5150.00	58.73	-3.63	55.10	74	-18.90	peak	H	1.5	318
5150.00	44.52	-3.63	40.89	54	-13.11	AVG	H	1.5	4
5150.00	59.69	-3.63	56.06	74	-17.94	peak	V	1.5	262
5150.00	46.36	-3.63	42.73	54	-11.27	AVG	V	1.5	287

Worse case mode:		802.11n(HT20)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5350.00	58.79	-3.59	55.20	74	-18.80	peak	H	1.5	18
5350.00	44.82	-3.59	41.23	54	-12.77	AVG	H	1.5	28
5350.00	59.53	-3.59	55.94	74	-18.06	peak	V	1.5	178
5350.00	46.42	-3.59	42.83	54	-11.17	AVG	V	1.5	57

Worse case mode:		802.11n(HT20)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5470.00	57.58	-3.44	54.14	74	-19.86	peak	H	1.5	358
5470.00	44.06	-3.44	40.62	54	-13.38	AVG	H	1.5	266
5470.00	57.87	-3.44	54.43	74	-19.57	peak	V	1.5	21
5470.00	46.08	-3.44	42.64	54	-11.36	AVG	V	1.5	196

Worse case mode:		802.11n(HT20)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5850.00	58.48	-3.42	55.06	74	-18.94	peak	H	1.5	146
5850.00	44.93	-3.42	41.51	54	-12.49	AVG	H	1.5	89
5850.00	59.86	-3.42	56.44	74	-17.56	peak	V	1.5	256
5850.00	46.34	-3.42	42.92	54	-11.08	AVG	V	1.5	207

Worse case mode:		802.11n(HT40)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	H/V	(m)	(Degree)
5150.00	58.48	-3.63	54.85	74	-19.15	peak	H	1.5	178
5150.00	44.60	-3.63	40.97	54	-13.03	AVG	H	1.5	157
5150.00	59.82	-3.63	56.19	74	-17.81	peak	V	1.5	306
5150.00	46.17	-3.63	42.54	54	-11.46	AVG	V	1.5	189

Worse case mode:		802.11n(HT40)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.60	-3.59	55.01	74	-18.99	peak	H	1.5	125
5350.00	44.56	-3.59	40.97	54	-13.03	AVG	H	1.5	349
5350.00	59.46	-3.59	55.87	74	-18.13	peak	V	1.5	319
5350.00	46.55	-3.59	42.96	54	-11.04	AVG	V	1.5	216

Worse case mode:		802.11n(HT40)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	58.08	-3.44	54.64	74	-19.36	peak	H	1.5	48
5470.00	43.64	-3.44	40.20	54	-13.80	AVG	H	1.5	313
5470.00	57.72	-3.44	54.28	74	-19.72	peak	V	1.5	286
5470.00	46.16	-3.44	42.72	54	-11.28	AVG	V	1.5	331

Worse case mode:		802.11n(HT40)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.45	-3.42	55.03	74	-18.97	peak	H	1.5	264
5850.00	44.42	-3.42	41.00	54	-13.00	AVG	H	1.5	182
5850.00	59.27	-3.42	55.85	74	-18.15	peak	V	1.5	49
5850.00	46.64	-3.42	43.22	54	-10.78	AVG	V	1.5	360

Worse case mode:		802.11ac(VHT20)		Test channel:		36			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.54	-3.63	54.91	74	-19.09	peak	H	1.5	252
5150.00	44.02	-3.63	40.39	54	-13.61	AVG	H	1.5	89
5150.00	60.24	-3.63	56.61	74	-17.39	peak	V	1.5	74
5150.00	46.80	-3.63	43.17	54	-10.83	AVG	V	1.5	347

Worse case mode:		802.11ac(VHT20)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	58.44	-3.59	54.85	74	-19.15	peak	H	1.5	307
5350.00	44.13	-3.59	40.54	54	-13.46	AVG	H	1.5	65
5350.00	59.26	-3.59	55.67	74	-18.33	peak	V	1.5	12
5350.00	46.77	-3.59	43.18	54	-10.82	AVG	V	1.5	197

Worse case mode:		802.11ac(VHT20)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.56	-3.44	54.12	74	-19.88	peak	H	1.5	92
5470.00	44.03	-3.44	40.59	54	-13.41	AVG	H	1.5	44
5470.00	58.10	-3.44	54.66	74	-19.34	peak	V	1.5	226
5470.00	46.02	-3.44	42.58	54	-11.42	AVG	V	1.5	112

Worse case mode:		802.11ac(VHT20)		Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5850.00	58.77	-3.42	55.35	74	-18.65	peak	H	1.5	329
5850.00	44.49	-3.42	41.07	54	-12.93	AVG	H	1.5	244
5850.00	59.69	-3.42	56.27	74	-17.73	peak	V	1.5	195
5850.00	46.83	-3.42	43.41	54	-10.59	AVG	V	1.5	343

Worse case mode:		802.11ac(VHT40)		Test channel:		38			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5150.00	58.24	-3.63	54.61	74	-19.39	peak	H	1.5	276
5150.00	44.84	-3.63	41.21	54	-12.79	AVG	H	1.5	279
5150.00	60.16	-3.63	56.53	74	-17.47	peak	V	1.5	191
5150.00	46.90	-3.63	43.27	54	-10.73	AVG	V	1.5	268

Worse case mode:		802.11ac(VHT40)		Test channel:		48			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5350.00	59.20	-3.59	55.61	74	-18.39	peak	H	1.5	97
5350.00	44.79	-3.59	41.20	54	-12.80	AVG	H	1.5	48
5350.00	60.12	-3.59	56.53	74	-17.47	peak	V	1.5	8
5350.00	46.28	-3.59	42.69	54	-11.31	AVG	V	1.5	283

Worse case mode:		802.11ac(VHT40)		Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
5470.00	57.48	-3.44	54.04	74	-19.96	peak	H	1.5	78
5470.00	44.35	-3.44	40.91	54	-13.09	AVG	H	1.5	110
5470.00	58.02	-3.44	54.58	74	-19.42	peak	V	1.5	12
5470.00	45.58	-3.44	42.14	54	-11.86	AVG	V	1.5	126

Worse case mode:		802.11ac(VHT40)		Test channel:		159			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)			(m)	(Degree)
5850.00	59.19	-3.42	55.77	74	-18.23	peak	H	1.5	47
5850.00	44.85	-3.42	41.43	54	-12.57	AVG	H	1.5	275
5850.00	59.83	-3.42	56.41	74	-17.59	peak	V	1.5	9
5850.00	46.19	-3.42	42.77	54	-11.23	AVG	V	1.5	19

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

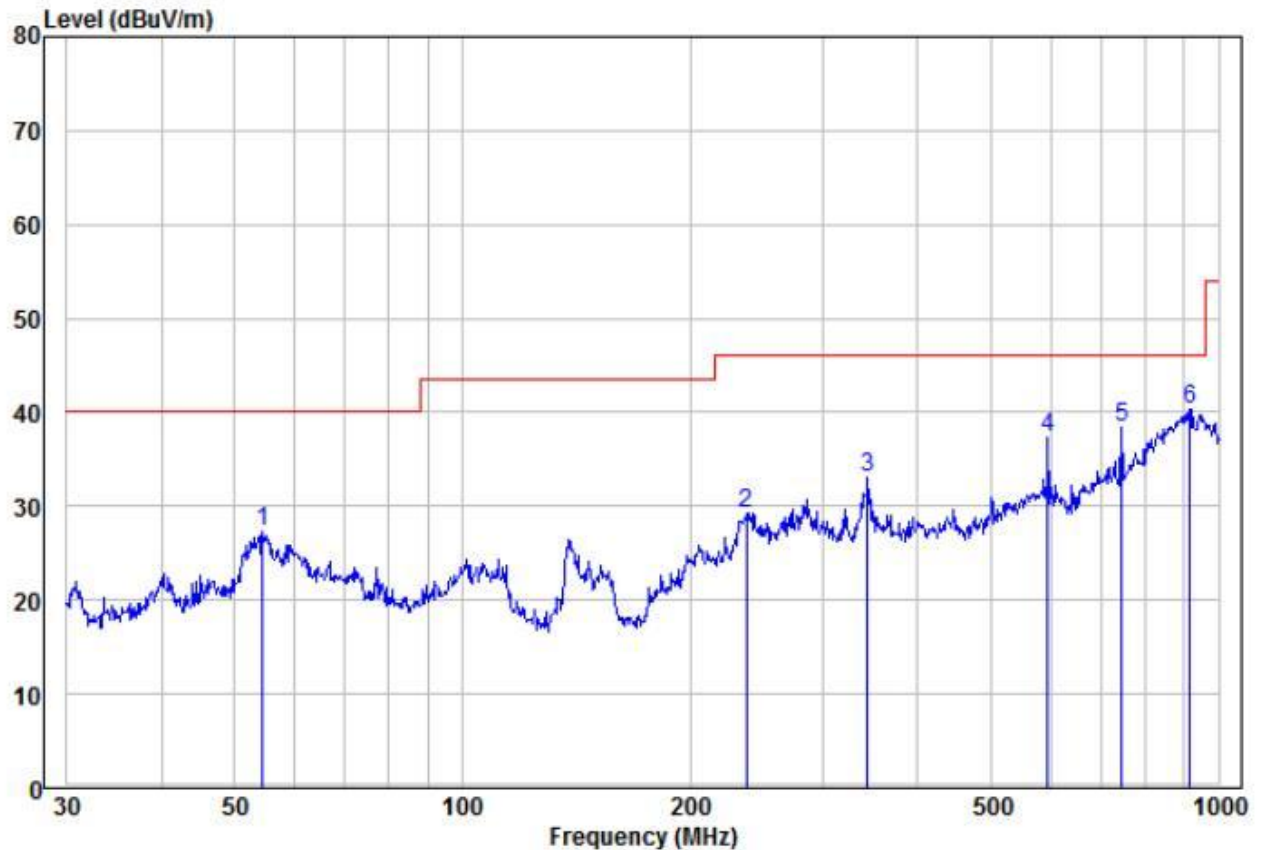
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Appendix J): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Test Procedure:					
Below 1GHz test procedure as below: a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Above 1GHz test procedure as below: g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre) h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/cm)	Remark	Measurement distance (cm)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				
Test result: PASS					

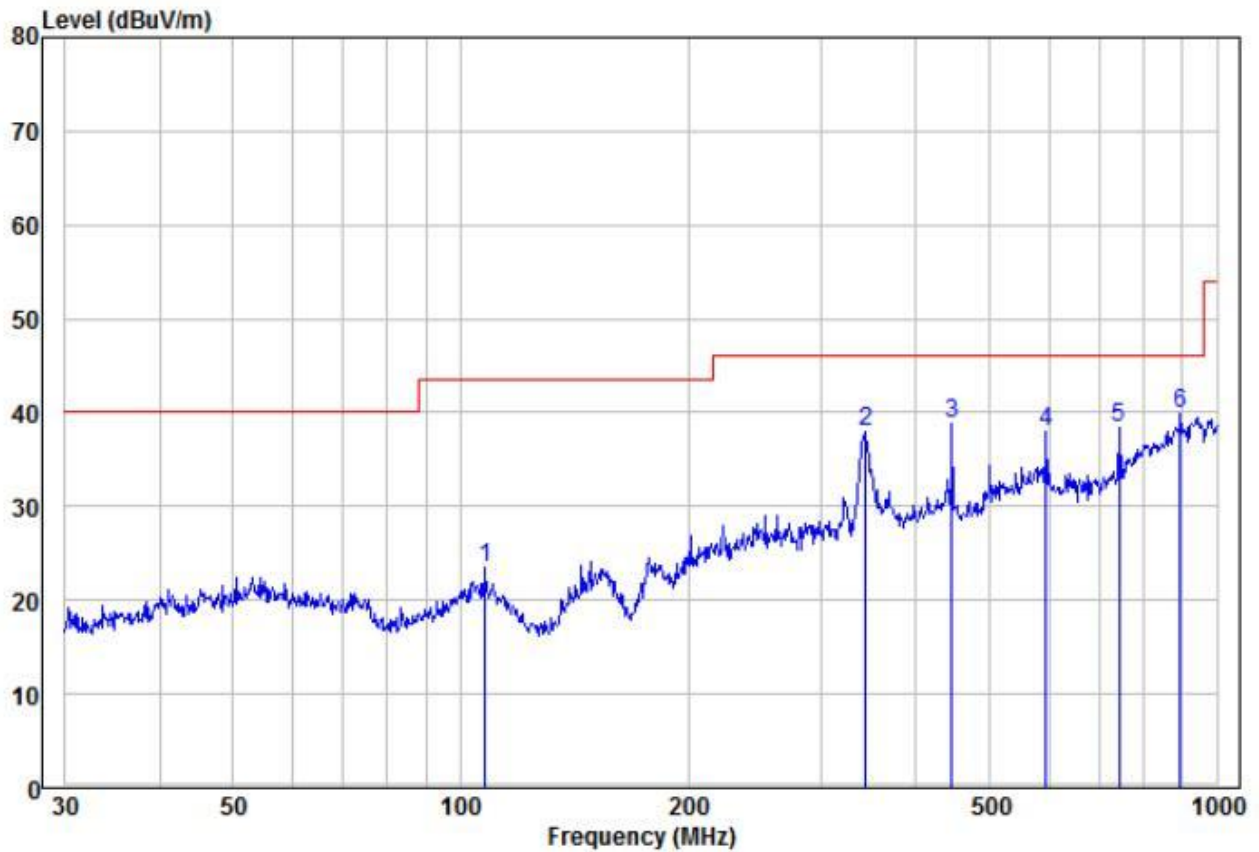
Test Data:
Radiated Emission below 1GHz
Ant1+Ant2

30MHz~1GHz		
Test mode:	Transmitting (802.11ac 36CH)	Vertical



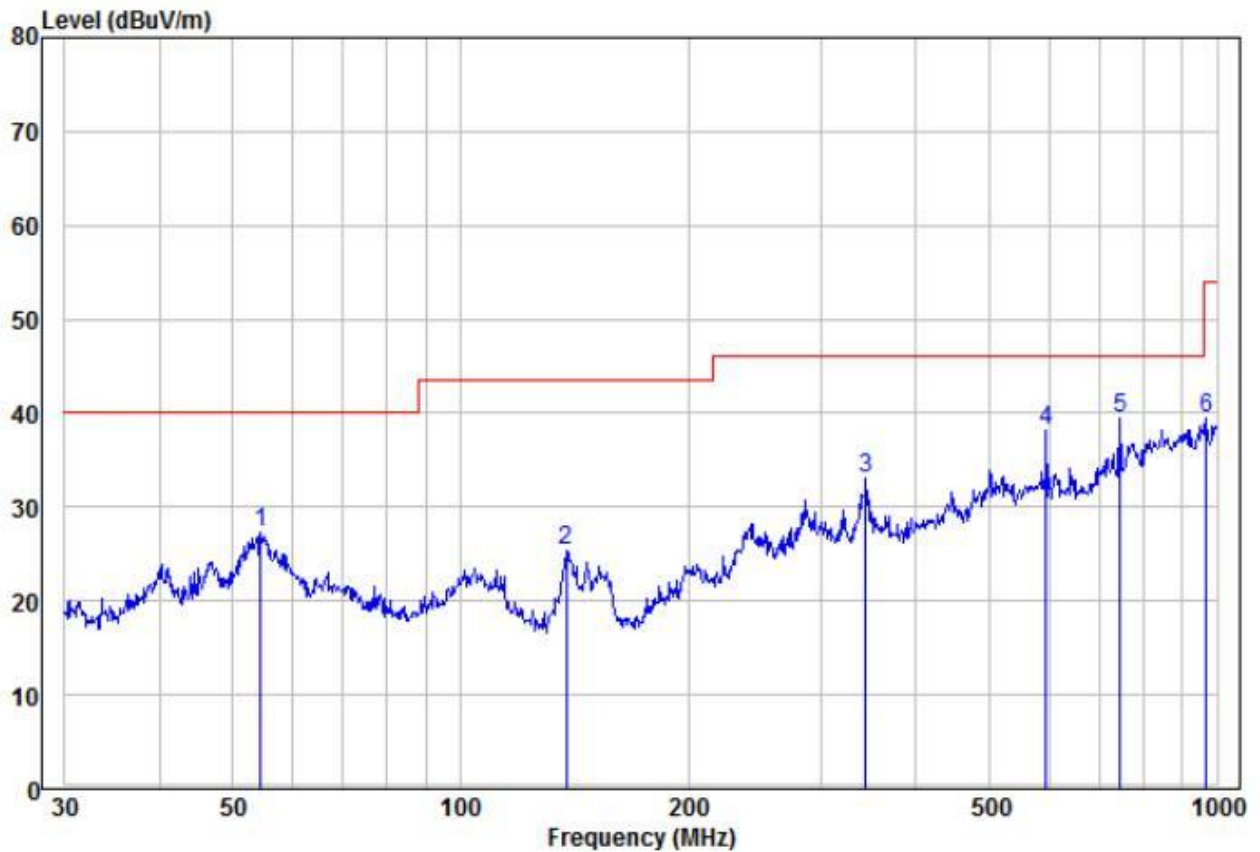
	Freq	Read		Limit	Over		
	MHz	Level	Factor	Level	Line	Limit	Remark
		dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	54.45	14.49	12.80	27.29	40.00	-12.71	Peak
2	237.48	14.33	14.96	29.29	46.00	-16.71	Peak
3	343.18	15.09	17.97	33.06	46.00	-12.94	Peak
4	595.13	15.11	22.18	37.29	46.00	-8.71	Peak
5	744.87	13.66	24.73	38.39	46.00	-7.61	Peak
6 pp	916.07	12.43	27.86	40.29	46.00	-5.71	Peak
							VERTICAL
							VERTICAL
							VERTICAL
							VERTICAL
							VERTICAL

Test mode:	Transmitting (802.11ac 36CH)	Horizontal
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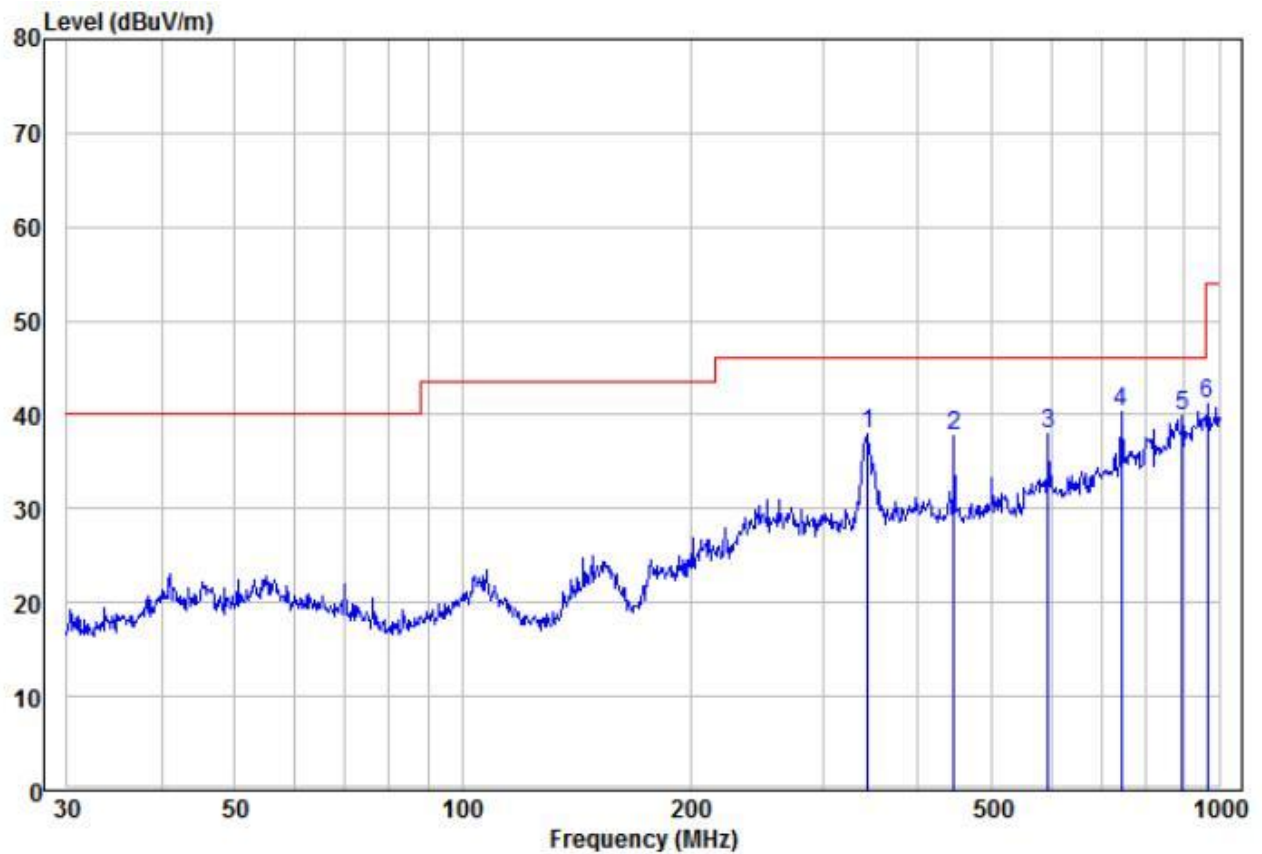
	Freq	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	107.89	11.60	11.85	23.45	43.50	-20.05	Peak	HORIZONTAL
2	343.18	19.95	17.97	37.92	46.00	-8.08	Peak	HORIZONTAL
3	446.41	19.46	19.34	38.80	46.00	-7.20	Peak	HORIZONTAL
4	595.13	15.76	22.18	37.94	46.00	-8.06	Peak	HORIZONTAL
5	742.26	13.88	24.44	38.32	46.00	-7.68	Peak	HORIZONTAL
6 pp	893.86	10.67	29.20	39.87	46.00	-6.13	Peak	HORIZONTAL

30MHz~1GHz		
Test mode:	Transmitting (802.11ac 149CH)	Vertical



	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	54.45	14.49	12.80	27.29	40.00	-12.71 Peak	VERTICAL
2	137.90	16.99	8.44	25.43	43.50	-18.07 Peak	VERTICAL
3	343.18	15.09	17.97	33.06	46.00	-12.94 Peak	VERTICAL
4	595.13	16.11	22.18	38.29	46.00	-7.71 Peak	VERTICAL
5 pp	744.87	14.66	24.73	39.39	46.00	-6.61 Peak	VERTICAL
6	968.93	11.42	28.10	39.52	54.00	-14.48 Peak	VERTICAL

Test mode:	Transmitting (802.11ac 149CH)	Horizontal
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	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	343.18	19.95	17.97	37.92	46.00	-8.08 Peak	HORIZONTAL
2	446.41	18.46	19.34	37.80	46.00	-8.20 Peak	HORIZONTAL
3	595.13	15.76	22.18	37.94	46.00	-8.06 Peak	HORIZONTAL
4 pp	742.26	15.88	24.44	40.32	46.00	-5.68 Peak	HORIZONTAL
5	893.86	10.67	29.20	39.87	46.00	-6.13 Peak	HORIZONTAL
6	965.54	13.10	28.08	41.18	54.00	-12.82 Peak	HORIZONTAL

Transmitter Emission above 1GHz

Ant1+Ant2:

Test mode:	802.11ac(13Mbps)			Test channel:		36 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10360	52.51	2.26	54.77	68.2	-13.43	peak	H	1.5	280
10360	37.38	2.26	39.64	54	-14.36	AVG	H	1.5	31
15540	52.01	3.75	55.76	68.2	-12.44	peak	H	1.5	234
15540	37.65	3.75	41.40	54	-12.60	AVG	H	1.5	130
10360	55.07	2.26	57.33	68.2	-10.87	peak	V	1.5	63
10360	39.72	2.26	41.98	54	-12.02	AVG	V	1.5	20
15540	51.13	3.75	54.88	68.2	-13.32	peak	V	1.5	139
15540	36.87	3.75	40.62	54	-13.38	AVG	V	1.5	342

Test mode:	802.11ac(13Mbps)			Test channel:		40 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10400	53.02	2.29	55.31	68.2	-12.89	peak	H	1.5	331
10400	37.93	2.29	40.22	54	-13.78	AVG	H	1.5	358
15600	49.62	3.78	53.40	68.2	-14.80	peak	H	1.5	161
15600	35.72	3.78	39.50	54	-14.50	AVG	H	1.5	293
10400	53.67	2.29	55.96	68.2	-12.24	peak	V	1.5	238
10400	37.65	2.29	39.94	54	-14.06	AVG	V	1.5	47
15600	48.87	3.78	52.65	68.2	-15.55	peak	V	1.5	98
15600	35.73	3.78	39.51	54	-14.49	AVG	V	1.5	290

Test mode:	802.11ac(13Mbps)			Test channel:		48 CH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
10480	51.43	2.31	53.74	68.2	-14.46	peak	H	1.5	182
10480	37.13	2.31	39.44	54	-14.56	AVG	H	1.5	326
15720	48.83	3.79	52.62	68.2	-15.58	peak	H	1.5	182
15720	36.12	3.79	39.91	54	-14.09	AVG	H	1.5	305
10480	54.17	2.31	56.48	68.2	-11.72	peak	V	1.5	176
10480	37.18	2.31	39.49	54	-14.51	AVG	V	1.5	235
15720	48.69	3.79	52.48	68.2	-15.72	peak	V	1.5	288
15720	36.64	3.79	40.43	54	-13.57	AVG	V	1.5	270

Test mode:	802.11ac(13Mbps)			Test channel:		149			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11490	51.94	2.54	54.48	68.2	-13.72	peak	H	1.5	98
11490	37.80	2.54	40.34	54	-13.66	AVG	H	1.5	122
17235	49.98	3.94	53.92	68.2	-14.28	peak	H	1.5	157
17235	37.57	3.94	41.51	54	-12.49	AVG	H	1.5	333
11490	53.36	2.54	55.90	68.2	-12.30	peak	V	1.5	86
11490	37.02	2.54	39.56	54	-14.44	AVG	V	1.5	297
17235	49.44	3.94	53.38	68.2	-14.82	peak	V	1.5	347
17235	37.30	3.94	41.24	54	-12.76	AVG	V	1.5	194

Test mode:	802.11ac(13Mbps)			Test channel:		157			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11570	52.73	2.55	55.28	68.2	-12.92	peak	H	1.5	239
11570	38.93	2.55	41.48	54	-12.52	AVG	H	1.5	174
17355	50.10	3.96	54.06	68.2	-14.14	peak	H	1.5	207
17355	36.44	3.96	40.40	54	-13.60	AVG	H	1.5	85
11570	54.46	2.55	57.01	68.2	-11.19	peak	V	1.5	149
11570	37.89	2.55	40.44	54	-13.56	AVG	V	1.5	116
17355	51.12	3.96	55.08	68.2	-13.12	peak	V	1.5	86
17355	36.23	3.96	40.19	54	-13.81	AVG	V	1.5	172

Test mode:	802.11ac(13Mbps)			Test channel:		165			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detect or Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
11650	51.50	2.58	54.08	68.2	-14.12	peak	H	1.5	214
11650	37.92	2.58	40.50	54	-13.50	AVG	H	1.5	34
17475	49.28	4.02	53.30	68.2	-14.90	peak	H	1.5	285
17475	36.89	4.02	40.91	54	-13.09	AVG	H	1.5	157
11650	54.58	2.58	57.16	68.2	-11.04	peak	V	1.5	184
11650	38.95	2.58	41.53	54	-12.47	AVG	V	1.5	181
17475	49.75	4.02	53.77	68.2	-14.43	peak	V	1.5	323
17475	36.95	4.02	40.97	54	-13.03	AVG	V	1.5	209

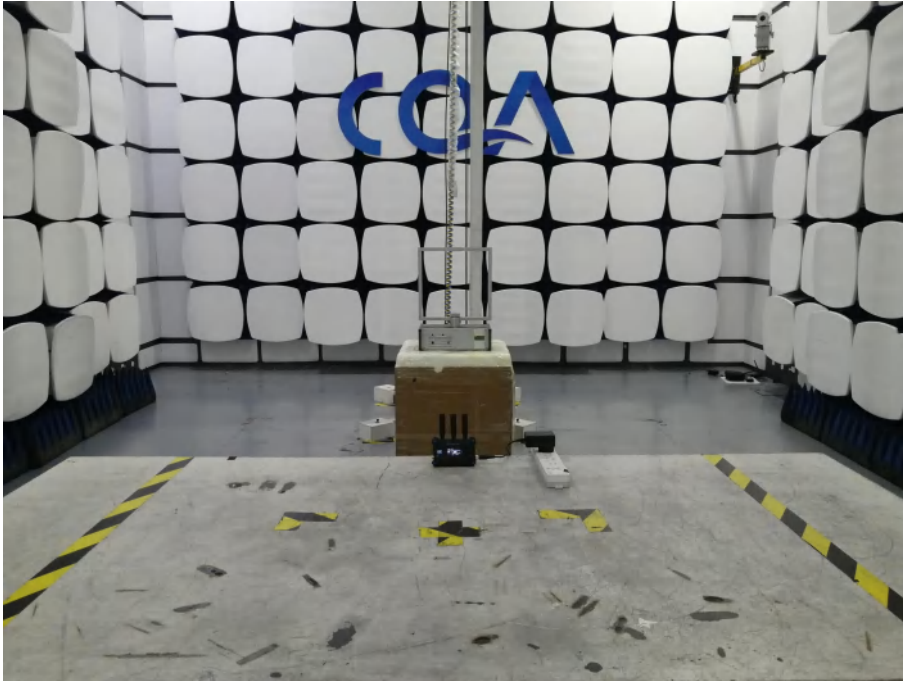
Remark:

- 1) The 802.11ac 13Mbps of rate is the worst case, only the worst data recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 40GHz, The disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

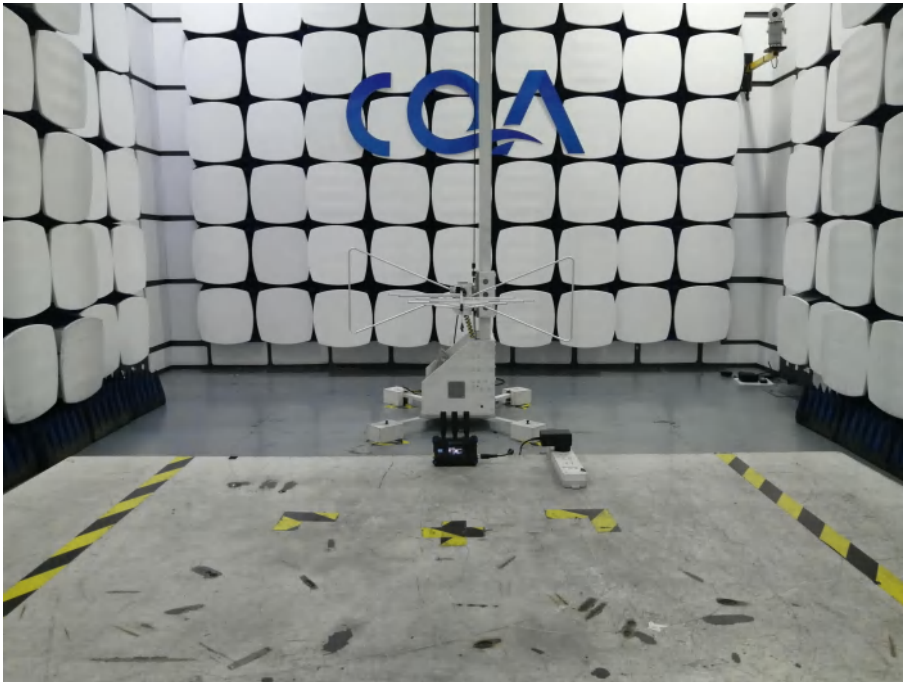
8 Photographs - EUT Test Setup

8.1 Radiated Spurious Emission

9kHz~30MHz:



30MHz~1GHz:



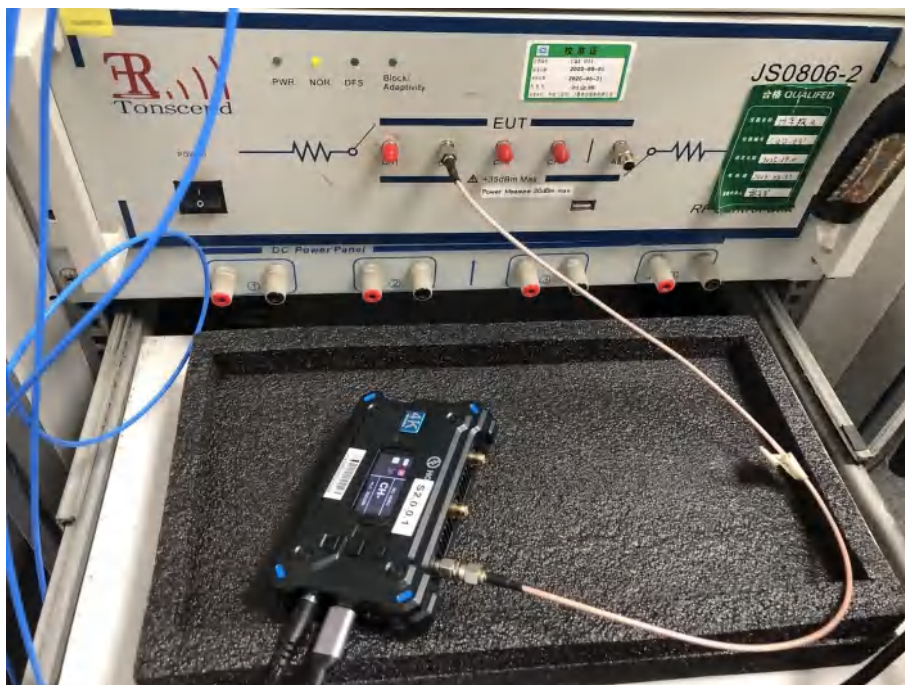
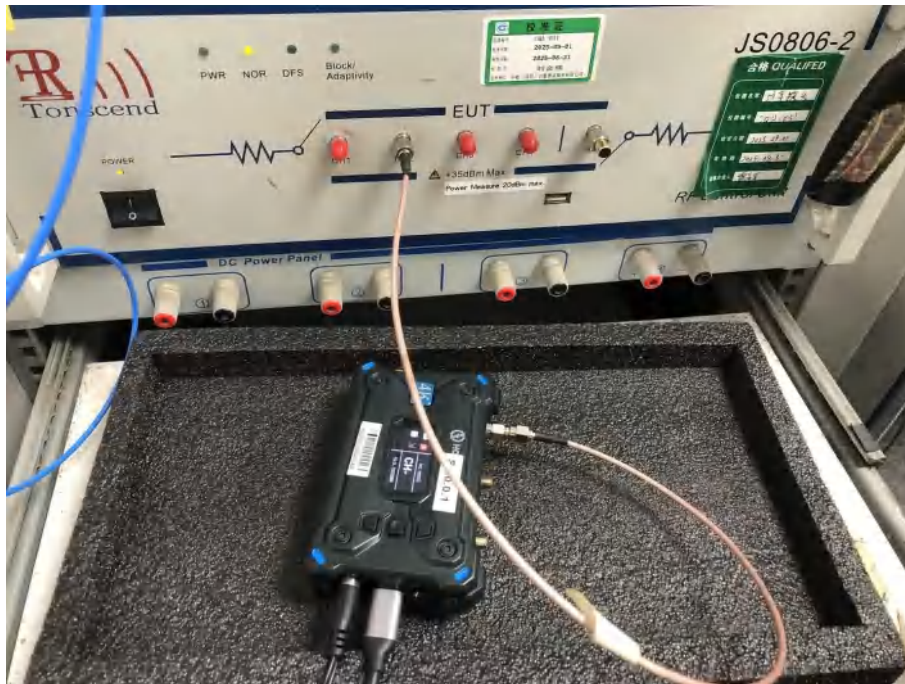
Above 1GHz:



8.2 Conducted Emission



8.3 RF Conducted measurement



9 Photographs - EUT Constructional Details

Refer to PHOTOGRAPHS OF EUT for CQASZ20260400831E-01.

*** END OF REPORT ***