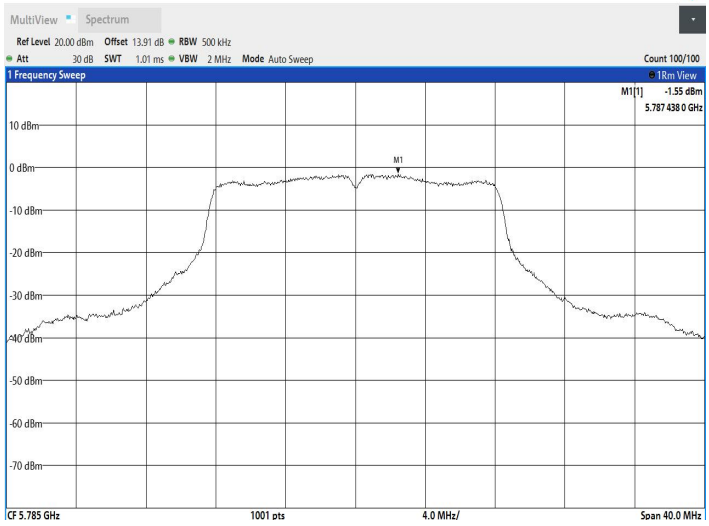
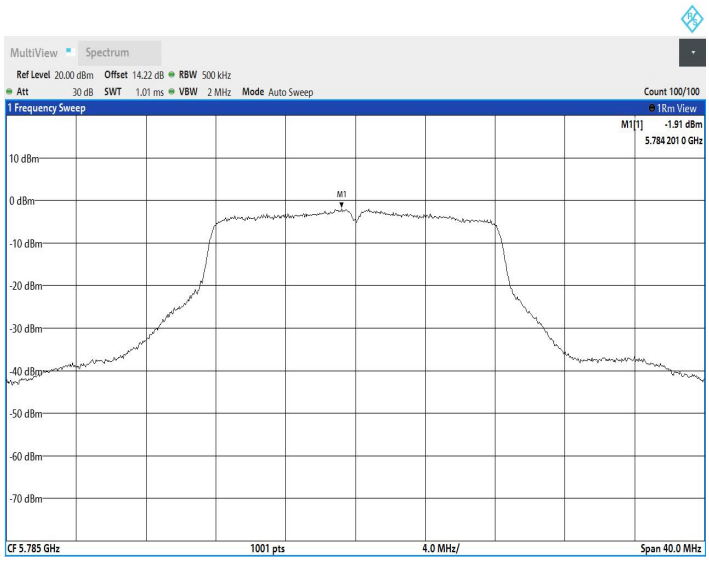
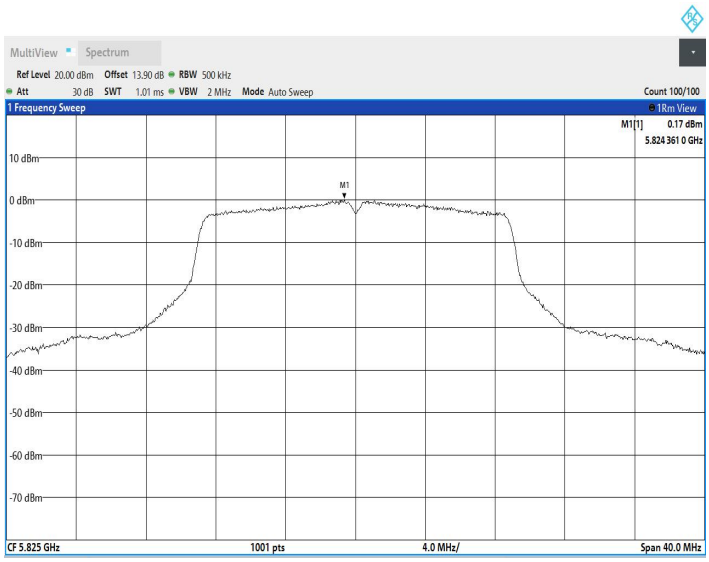


11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



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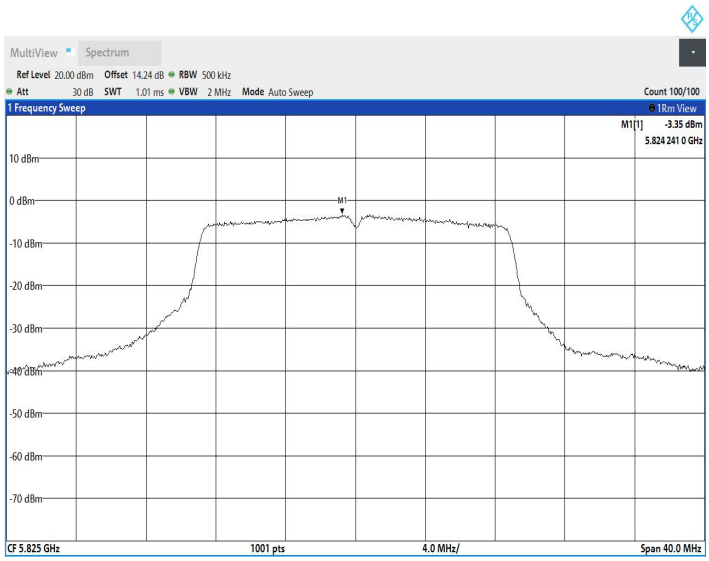

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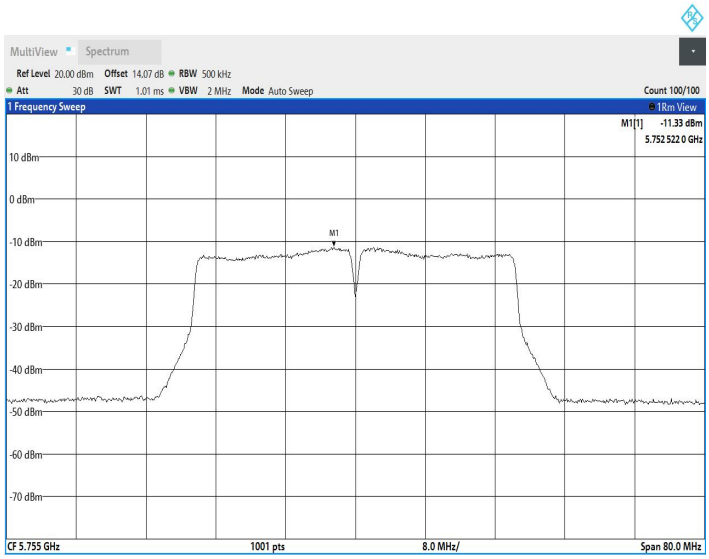

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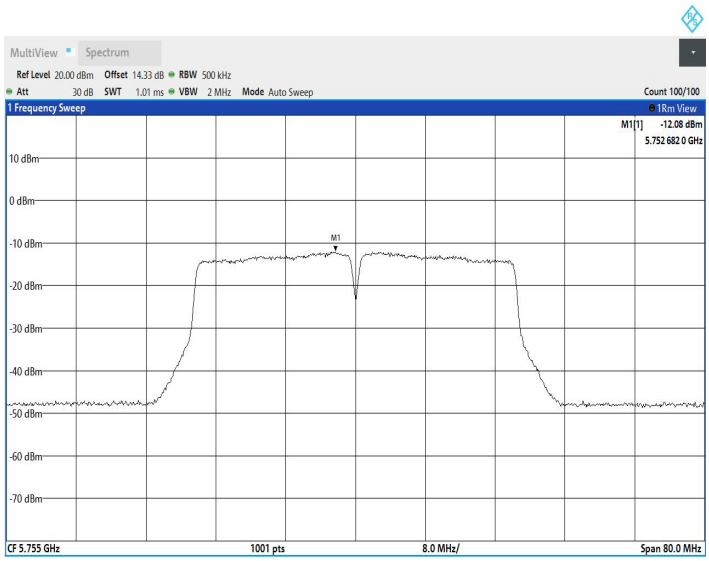

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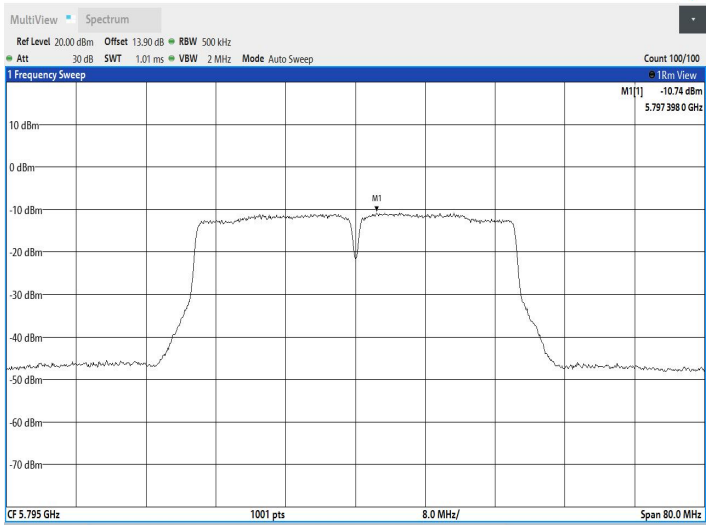

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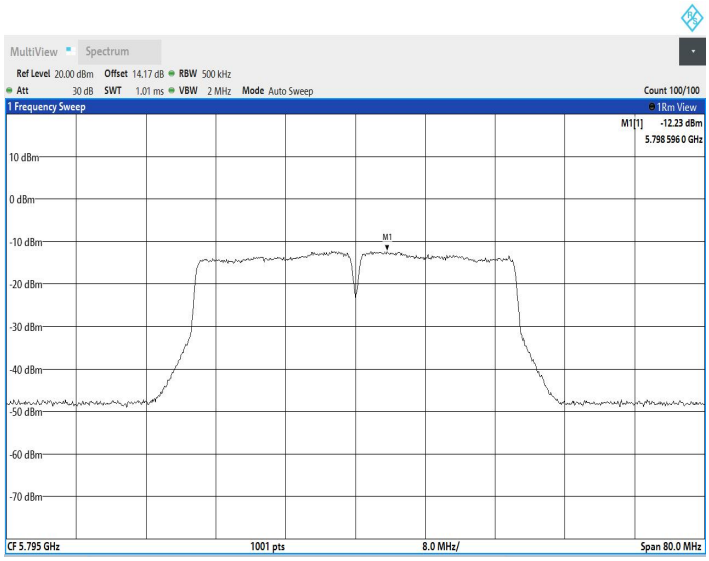

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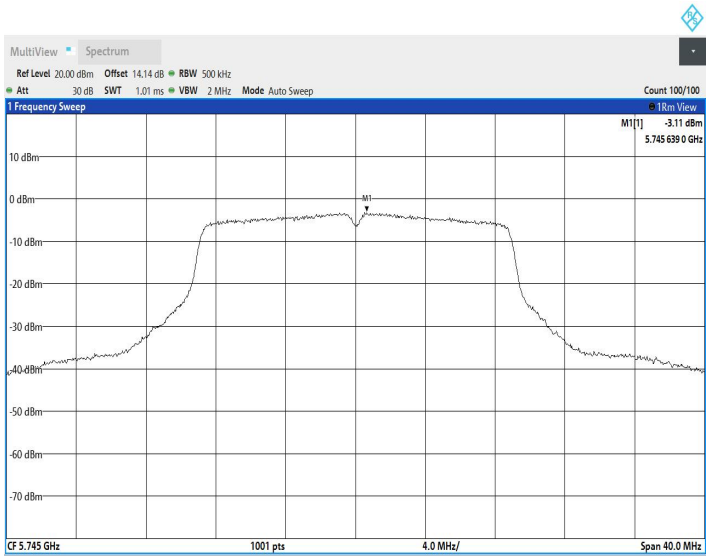

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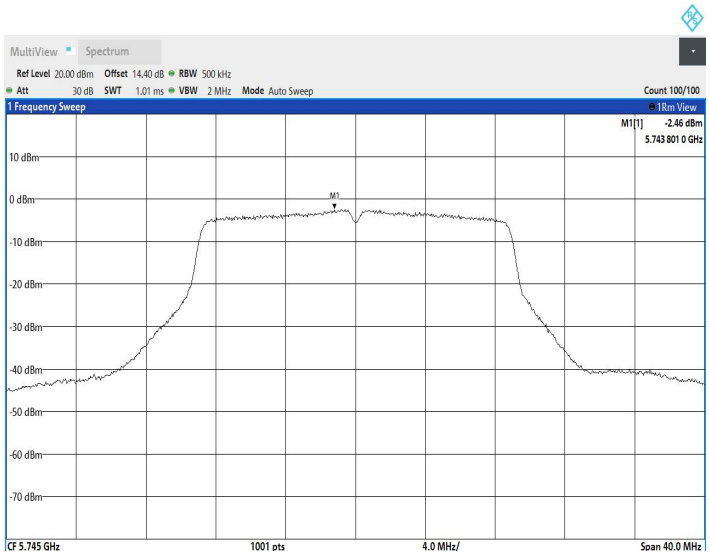

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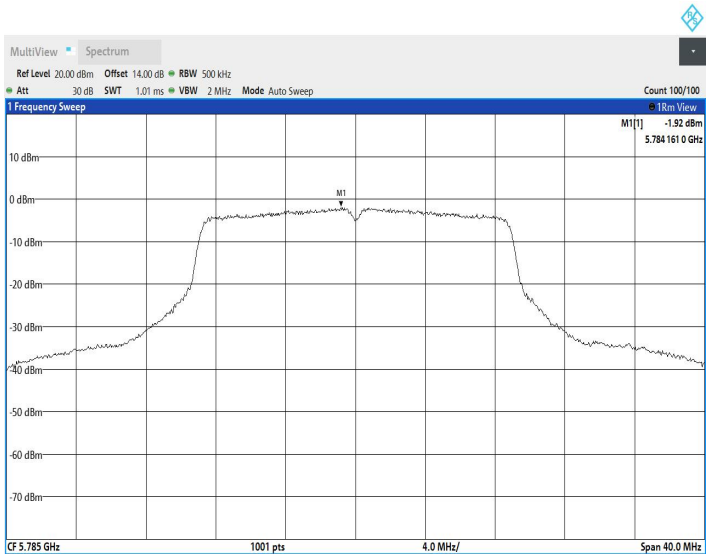

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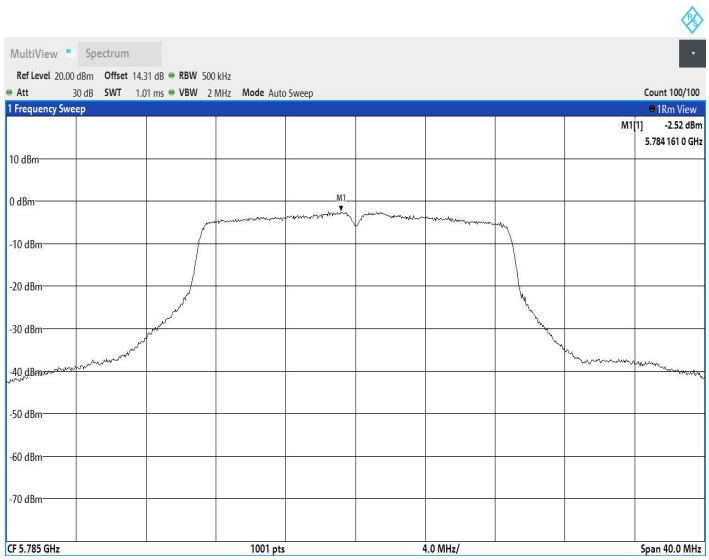

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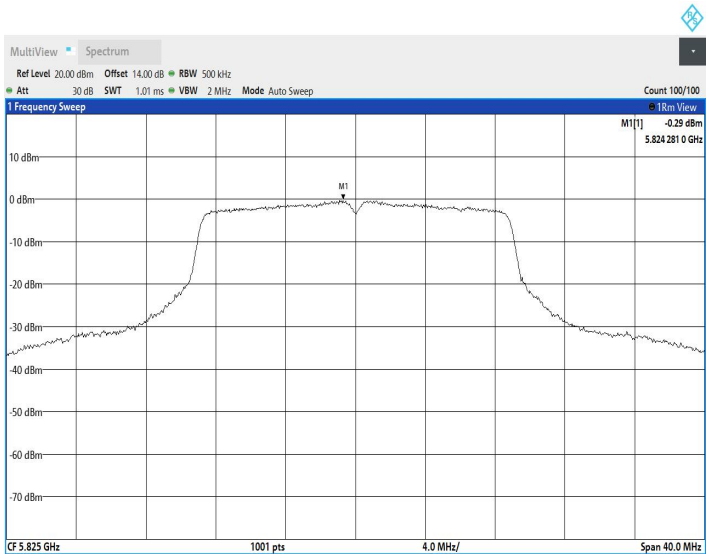

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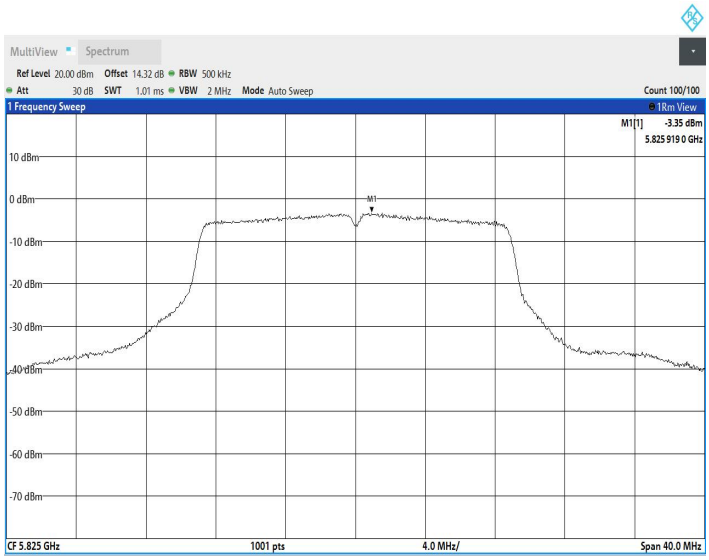

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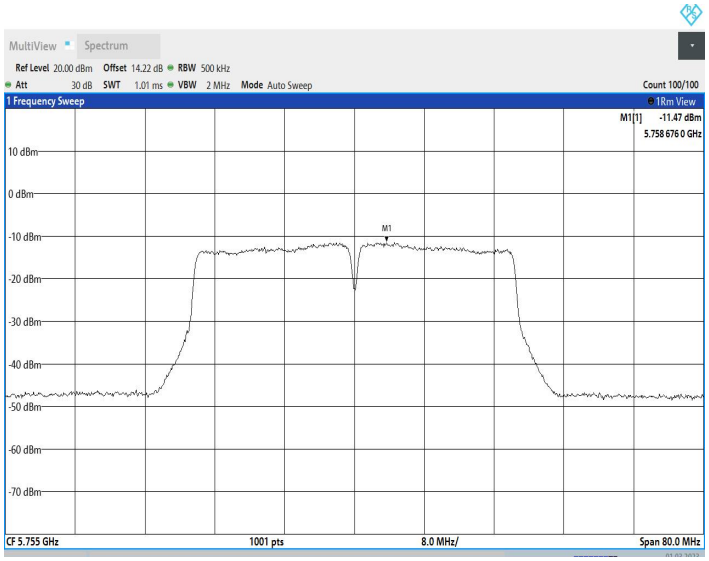

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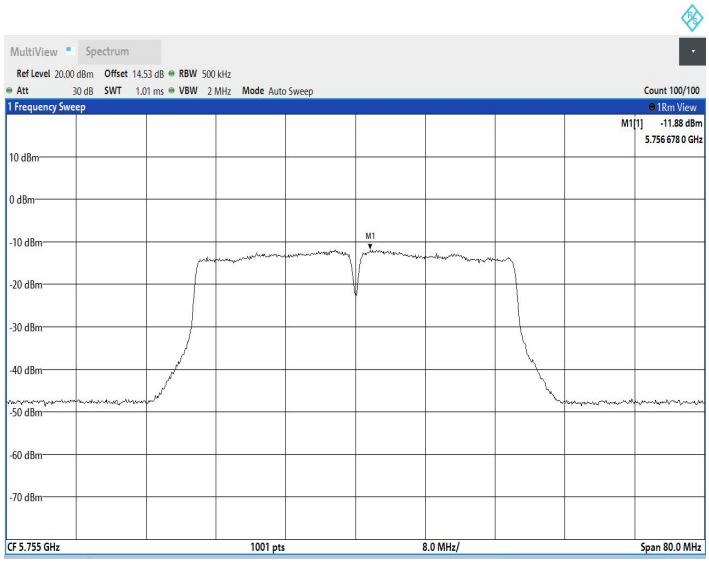
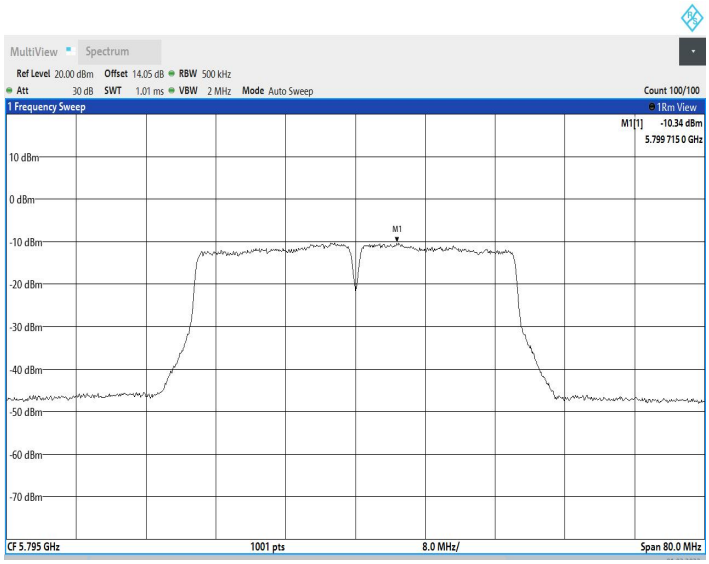


11AC40MIMO_Ant1_5795



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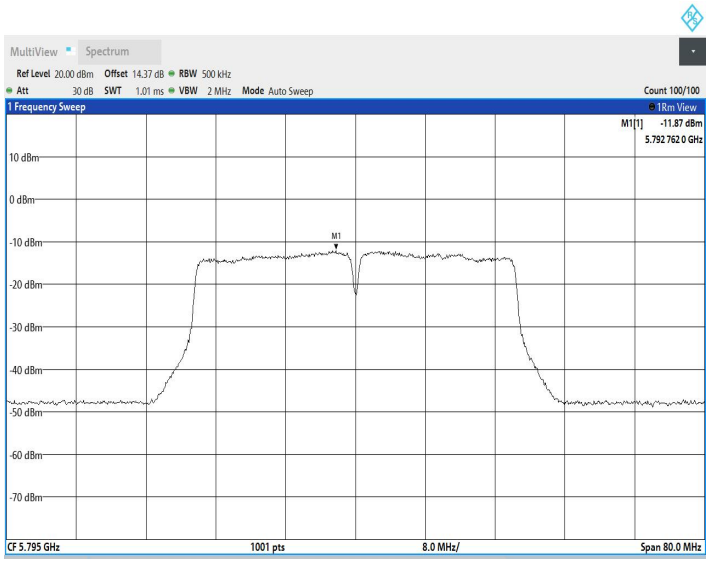
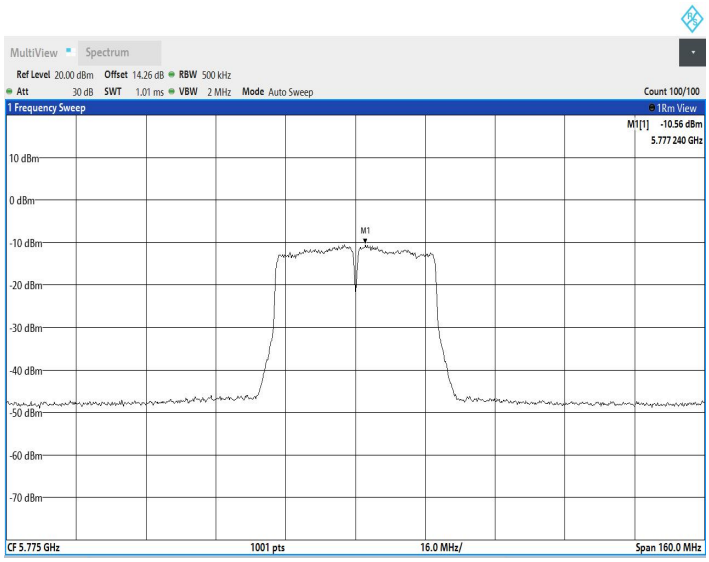


11AC80MIMO_Ant1_5775



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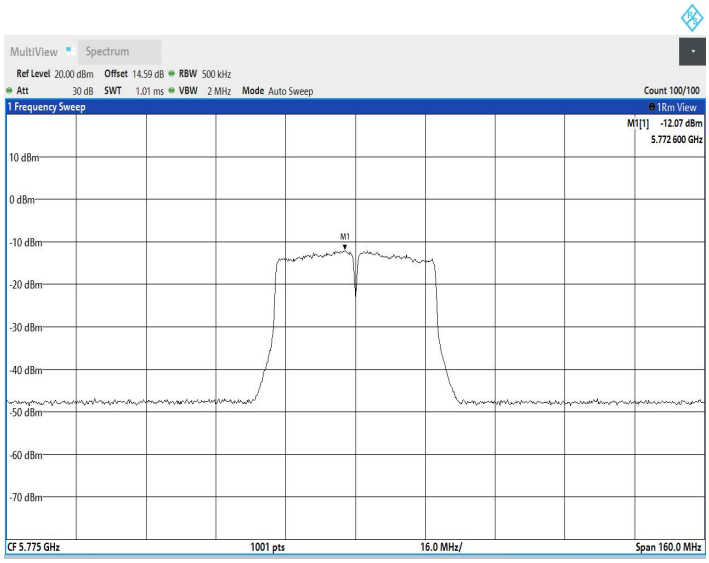


6.6 Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.(According to15.407(g))

6.7 Transmitter Spurious Emission

Specifications:	FCC 47 Part 15.407, 15.205, 15.209
DUT Serial Number:	S2
Test conditions:	Ambient Temperature:20℃ Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Transmitter Spurious Emission – Conducted

Measurement Limit and Method

Standard	Limit
FCC 47 Part 15.407, 15.205, 15.209	< -27

Measurement Uncertainty:

Measurement Uncertainty	±0.80dB

The measurement method is made according to KDB 789033 G(2)

1. For all measurements, follow the requirements in II.G.3. “General Requirements for Unwanted Emissions Measurements.”

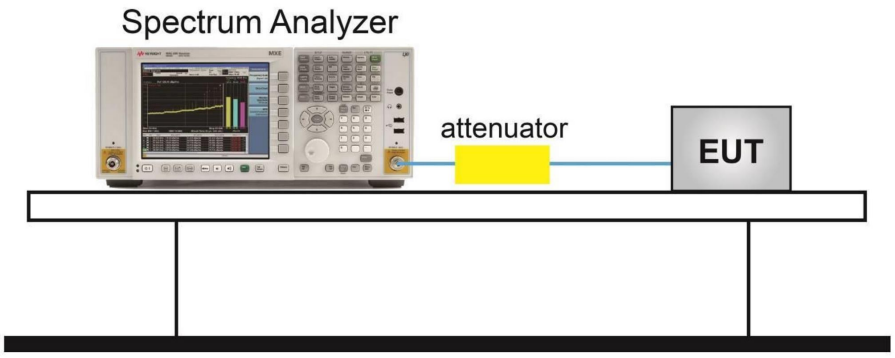
2. At frequencies below 1000 MHz, use the procedure described in II.G.4. “Procedure for Unwanted Emissions Measurements Below 1000 MHz.”

3. At frequencies above 1000 MHz, use the procedure for maximum emissions described in II.G.5., “Procedure for Unwanted Emissions Measurements Above 1000 MHz.”

(i) Sections 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.

Test Setup



Modulation type and data rate tested:

Mode	Data rate	Channel
802.11a	6Mbps	149,157,165
802.11n-HT20	6Mbps	149,157,165
802.11n-HT40	MCS0	151,159
802.11ac-VHT20	MCS0	149,157,165
802.11ac-VHT40	MCS0	151,159
802.11ac-VHT80	MCS0	155

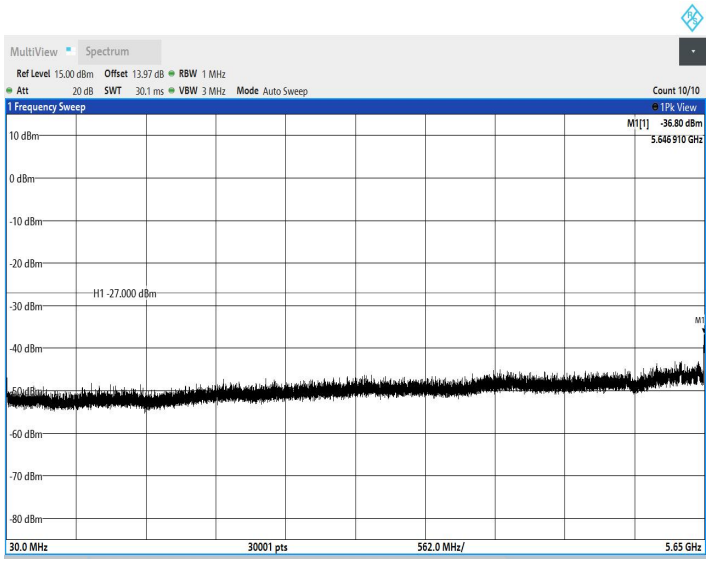
6.6.1.2 Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5745	30~5650	5646.91	-36.8	≤-27	PASS
			5925~40000	22408.2	-46.67	≤-27	PASS
	Ant2	5745	30~5650	5648.03	-36.86	≤-27	PASS
			5925~40000	22346.9	-45.92	≤-27	PASS
	Ant1	5785	30~5650	1946.45	-41.66	≤-27	PASS
			5925~40000	22359.4	-47.03	≤-27	PASS
	Ant2	5785	30~5650	5355.99	-43.18	≤-27	PASS
			5925~40000	22294.7	-45.88	≤-27	PASS
	Ant1	5825	30~5650	5540.32	-42.34	≤-27	PASS
			5925~40000	5925.6	-38.2	≤-27	PASS
	Ant2	5825	30~5650	5538.63	-43.31	≤-27	PASS
			5925~40000	5925.6	-42.84	≤-27	PASS

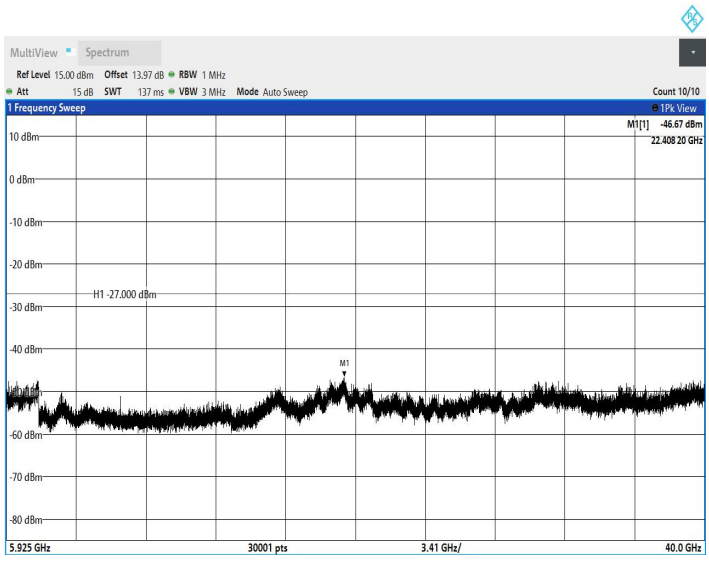
11N20MIMO	Ant1	5745	30~5650	5647.85	-37.61	≤-27	PASS
			5925~40000	22285.6	-46.81	≤-27	PASS
	Ant2	5745	30~5650	5648.22	-37.54	≤-27	PASS
			5925~40000	39554.2	-46.34	≤-27	PASS
	Ant1	5785	30~5650	5495.74	-41.91	≤-27	PASS
			5925~40000	7472.5	-46.69	≤-27	PASS
	Ant2	5785	30~5650	5592.4	-43.03	≤-27	PASS
			5925~40000	7474.8	-45.65	≤-27	PASS
	Ant1	5825	30~5650	5532.45	-42.08	≤-27	PASS
			5925~40000	5925.6	-38.09	≤-27	PASS
	Ant2	5825	30~5650	5621.25	-43.37	≤-27	PASS
			5925~40000	5930.1	-44.86	≤-27	PASS
11N40MIMO	Ant1	5755	30~5650	5647.1	-40.37	≤-27	PASS
			5925~40000	6475.3	-46.69	≤-27	PASS
	Ant2	5755	30~5650	5648.22	-40.3	≤-27	PASS
			5925~40000	22331	-46.22	≤-27	PASS
	Ant1	5795	30~5650	5315.53	-41.72	≤-27	PASS
			5925~40000	7416.9	-46.82	≤-27	PASS
	Ant2	5795	30~5650	5315.15	-41.35	≤-27	PASS
			5925~40000	22343.5	-46.05	≤-27	PASS
11AC20MIMO	Ant1	5745	30~5650	5646.35	-38.5	≤-27	PASS
			5925~40000	31885.3	-46.76	≤-27	PASS
	Ant2	5745	30~5650	5648.6	-38.19	≤-27	PASS
			5925~40000	7008	-46.59	≤-27	PASS
	Ant1	5785	30~5650	5496.67	-43.15	≤-27	PASS
			5925~40000	22323	-45.62	≤-27	PASS
	Ant2	5785	30~5650	5442.54	-43.19	≤-27	PASS
			5925~40000	22337.8	-46.35	≤-27	PASS
	Ant1	5825	30~5650	5539.76	-42.09	≤-27	PASS
			5925~40000	5926.7	-37.08	≤-27	PASS
	Ant2	5825	30~5650	5383.71	-43.13	≤-27	PASS
			5925~40000	5926.7	-43.03	≤-27	PASS
11AC40MIMO	Ant1	5755	30~5650	5647.85	-40.35	≤-27	PASS
			5925~40000	22308.3	-46.88	≤-27	PASS
	Ant2	5755	30~5650	5648.03	-40.49	≤-27	PASS
			5925~40000	22310.6	-45.6	≤-27	PASS
	Ant1	5795	30~5650	5332.01	-42.42	≤-27	PASS
			5925~40000	21781.3	-46.99	≤-27	PASS
	Ant2	5795	30~5650	5314.59	-42.04	≤-27	PASS
			5925~40000	6442.4	-46.18	≤-27	PASS

11AC80MIMO	Ant1	5775	30~5650	5279.37	-42.75	≤-27	PASS
			5925~40000	22312.8	-46.74	≤-27	PASS
	Ant2	5775	30~5650	5294.55	-40.93	≤-27	PASS
			5925~40000	22262.8	-45.12	≤-27	PASS

Test Graphs



11A-CDD_Ant1_5745_30~5650



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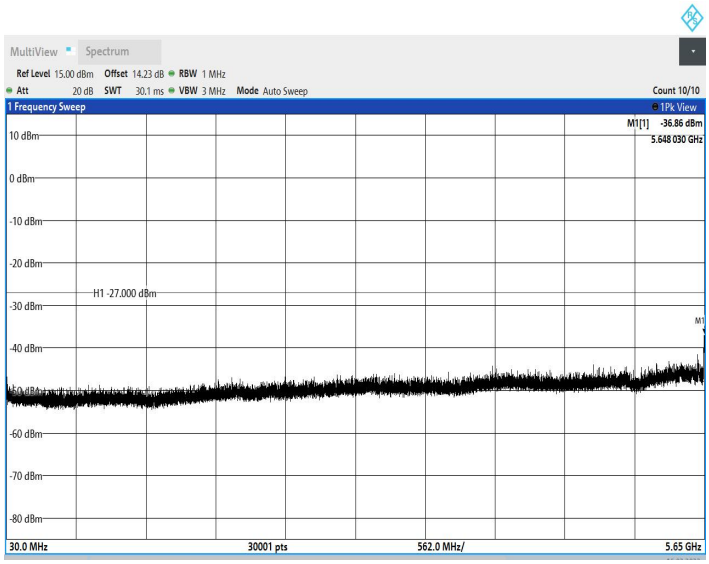

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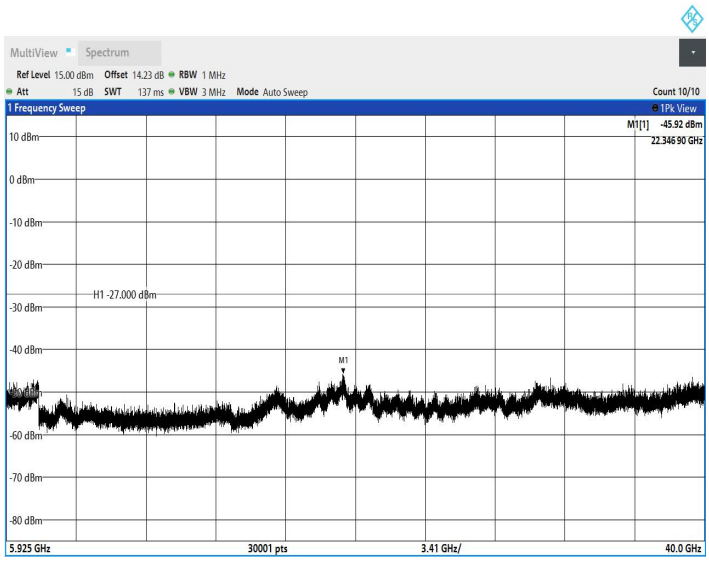

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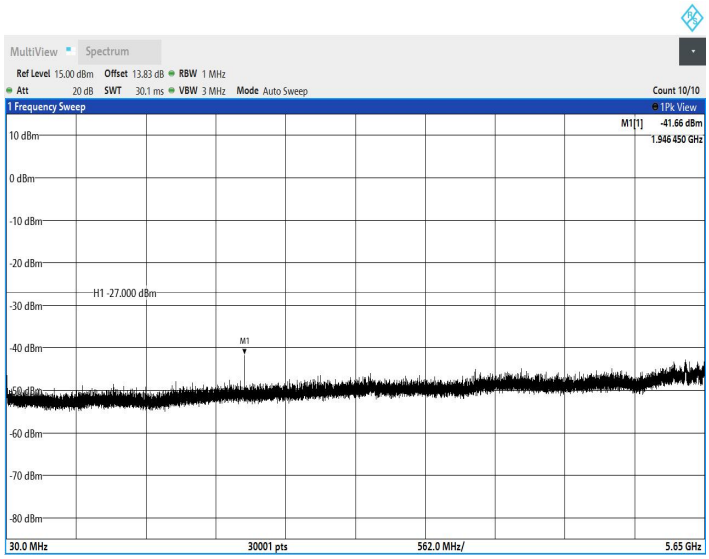

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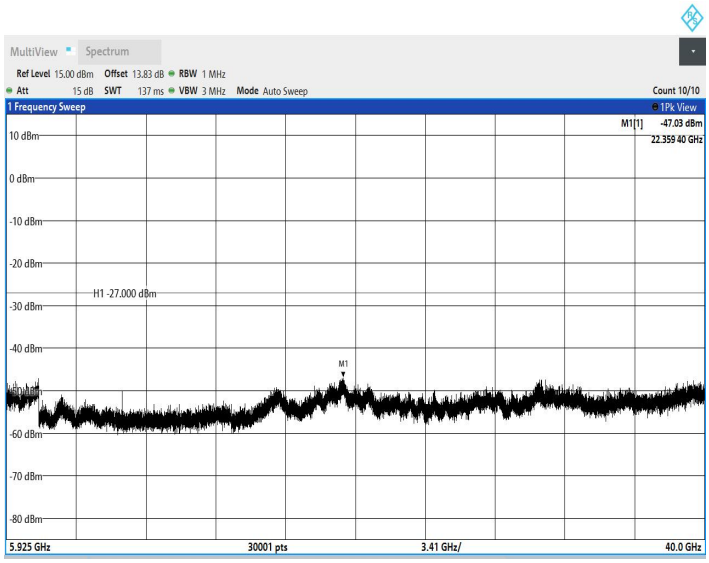

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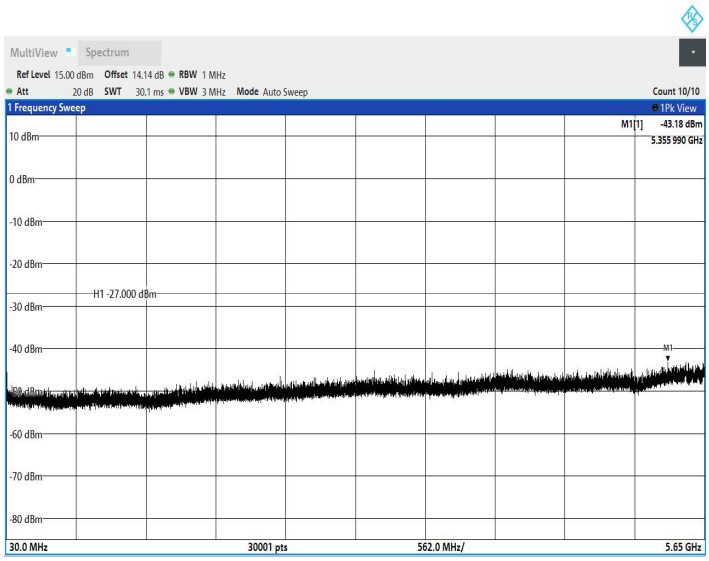

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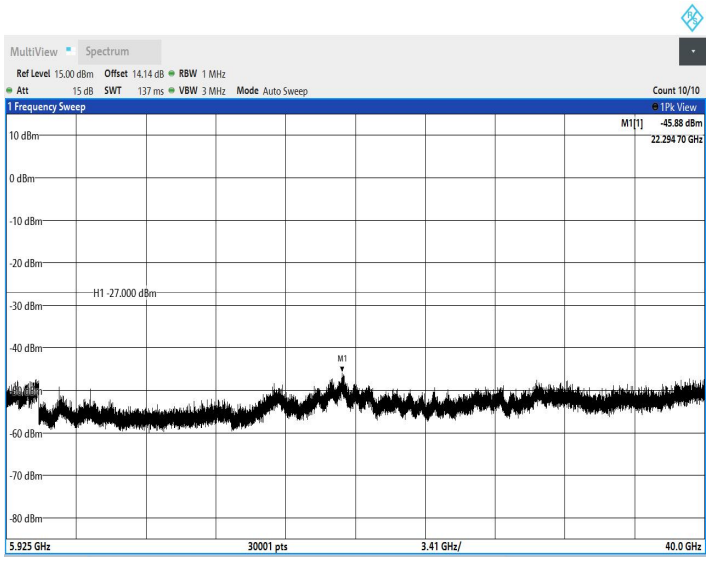

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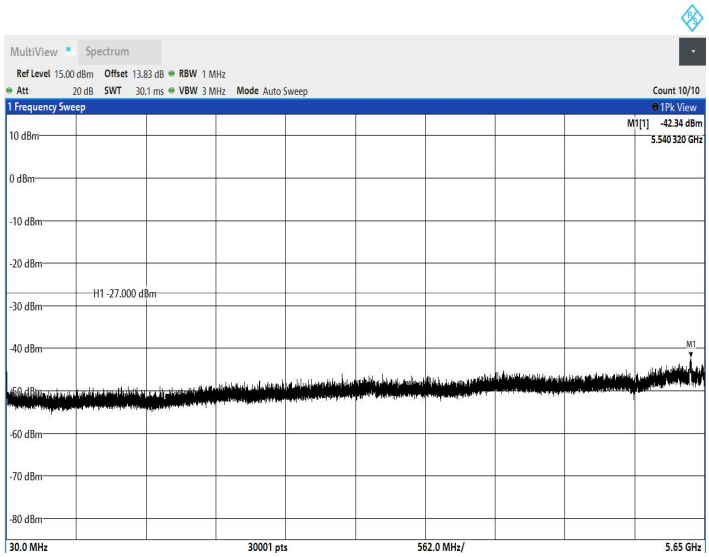

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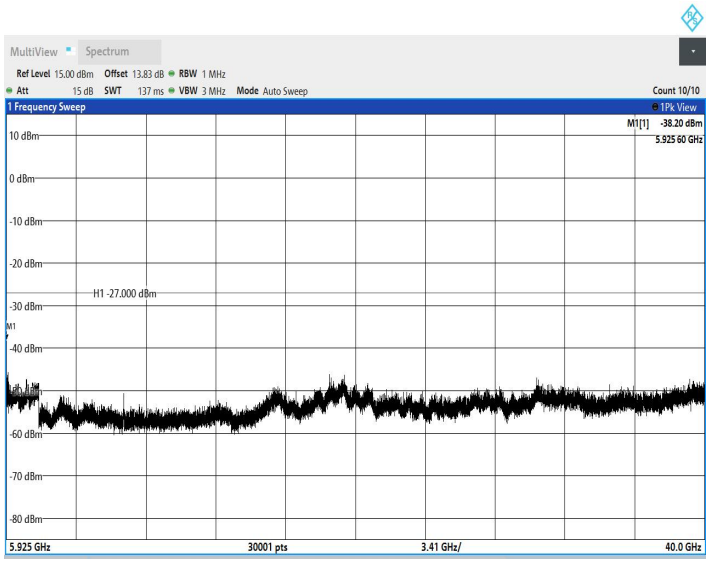

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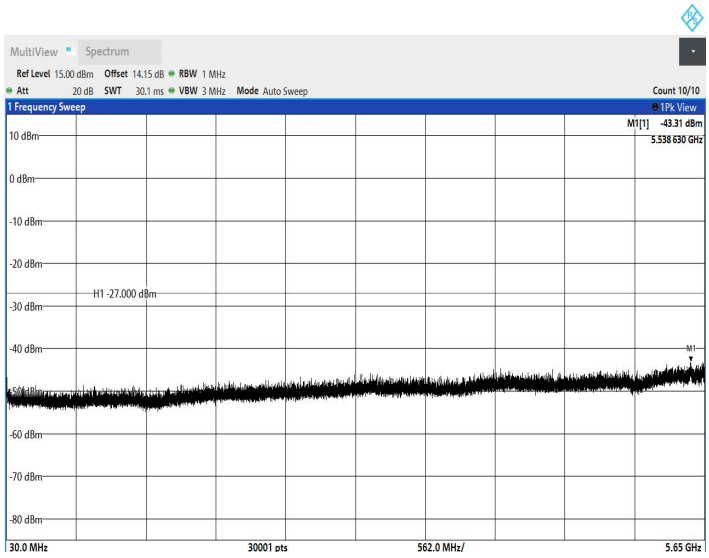

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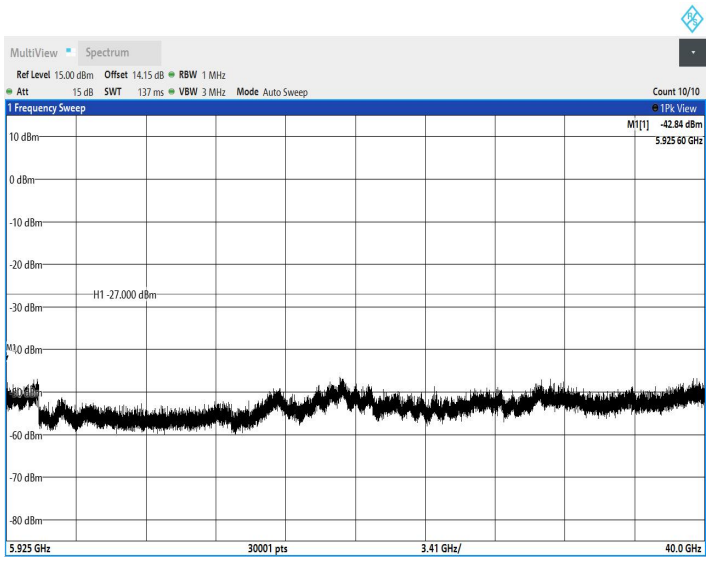

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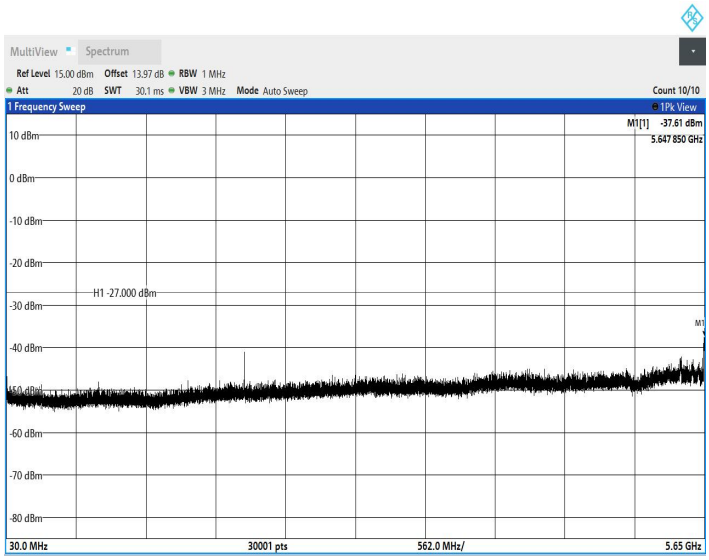

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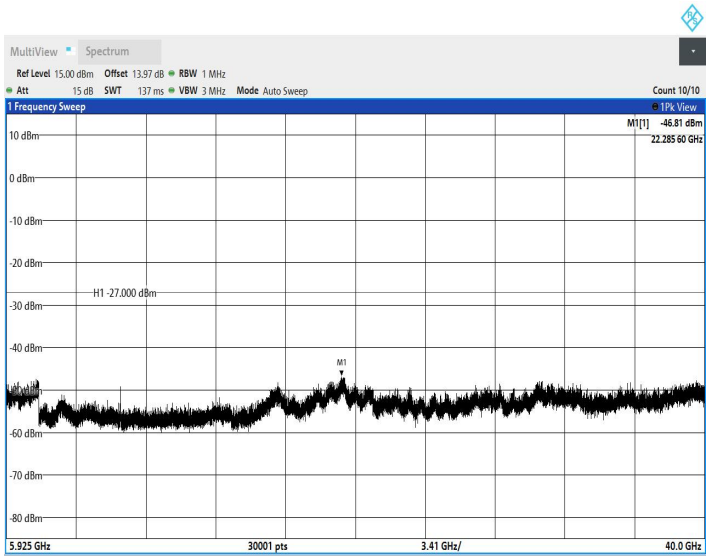
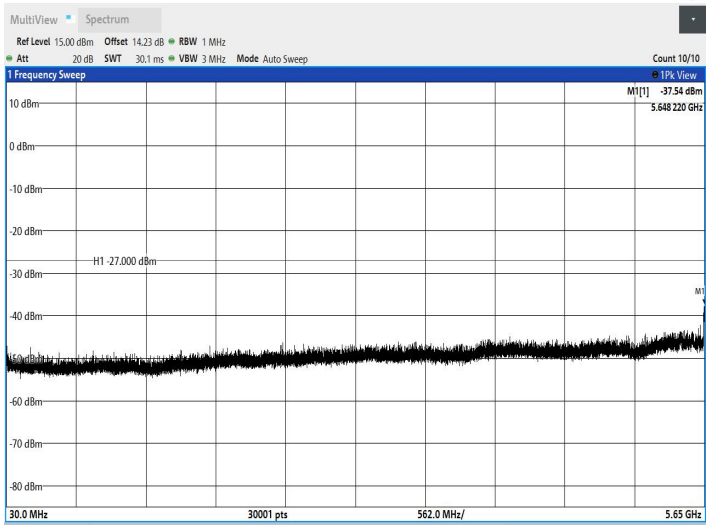
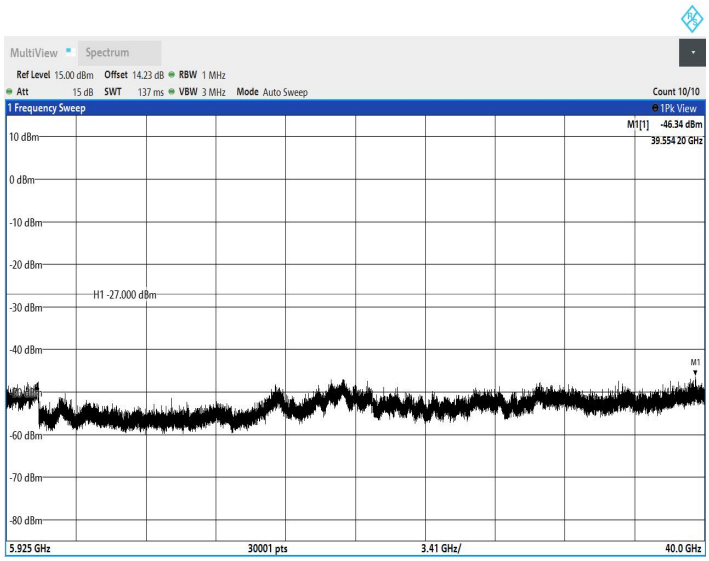


11N20MIMO_Ant1_5745_5925~40000



11N20MIMO_Ant2_5745_30~5650



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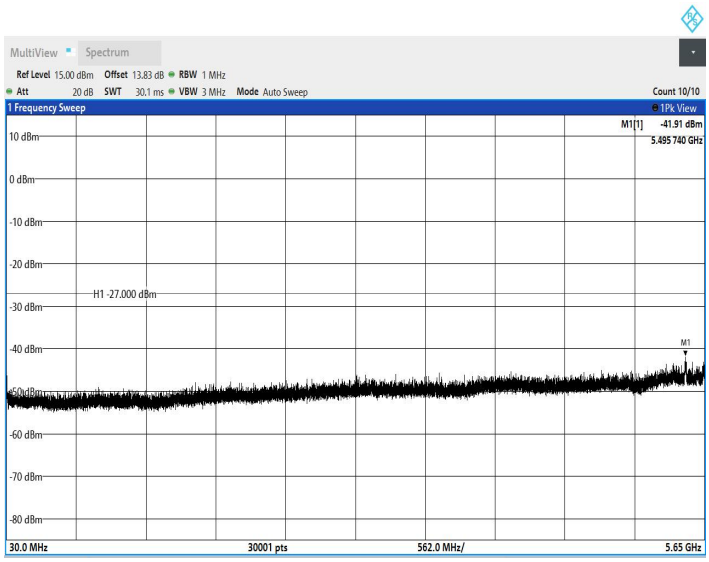

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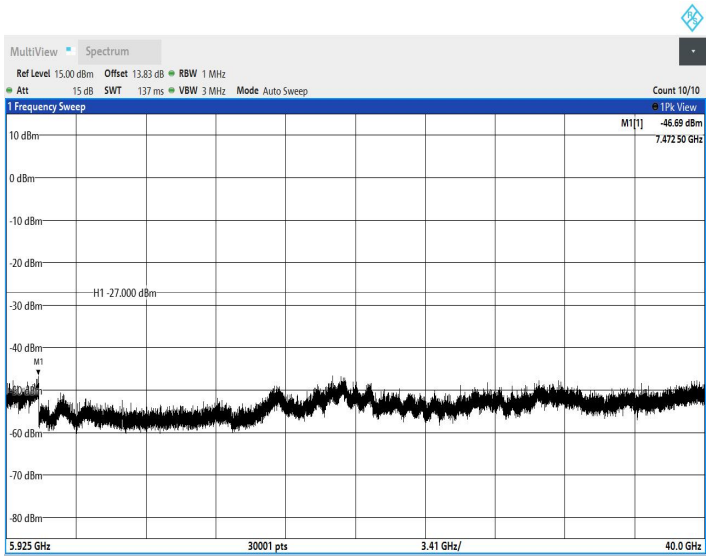

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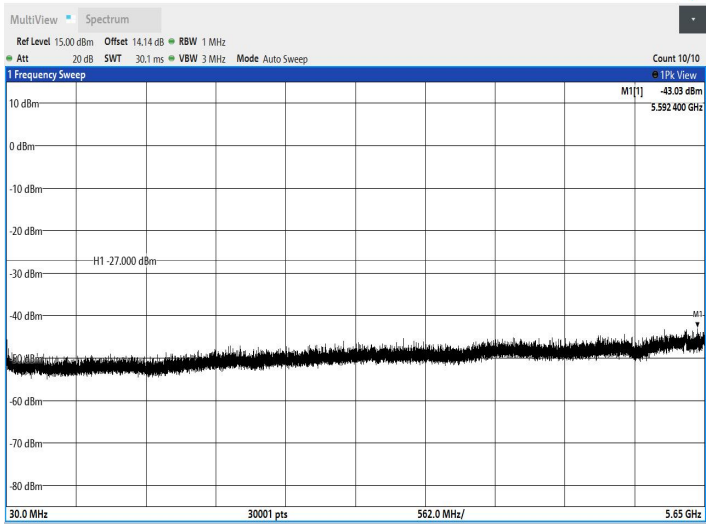

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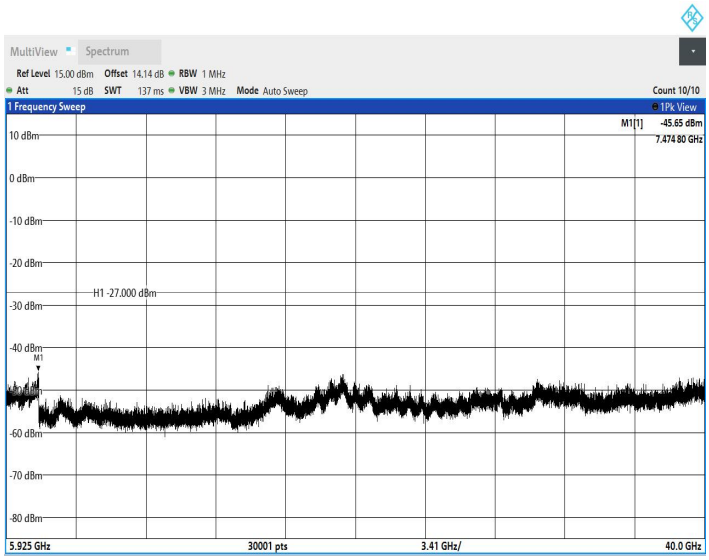

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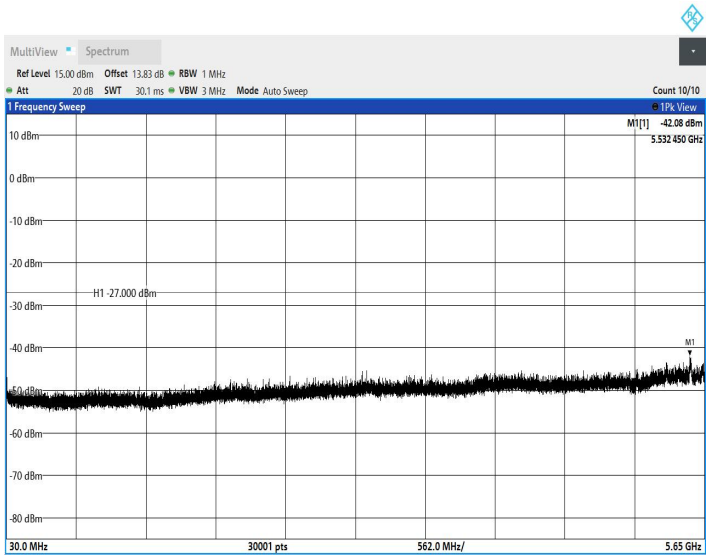

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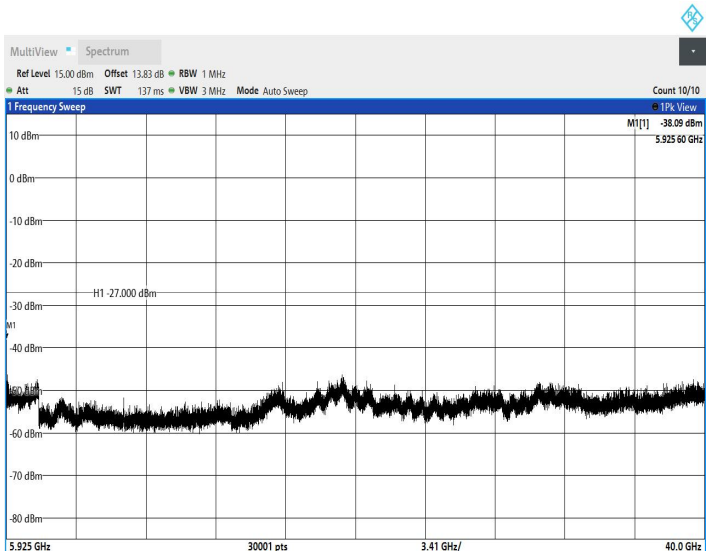

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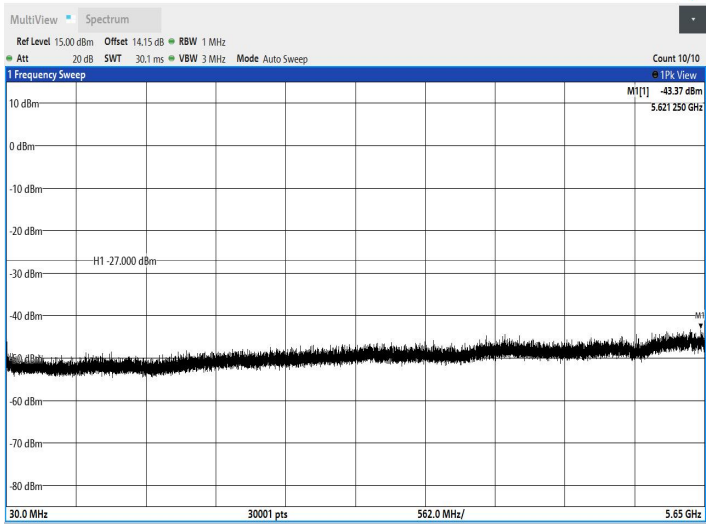

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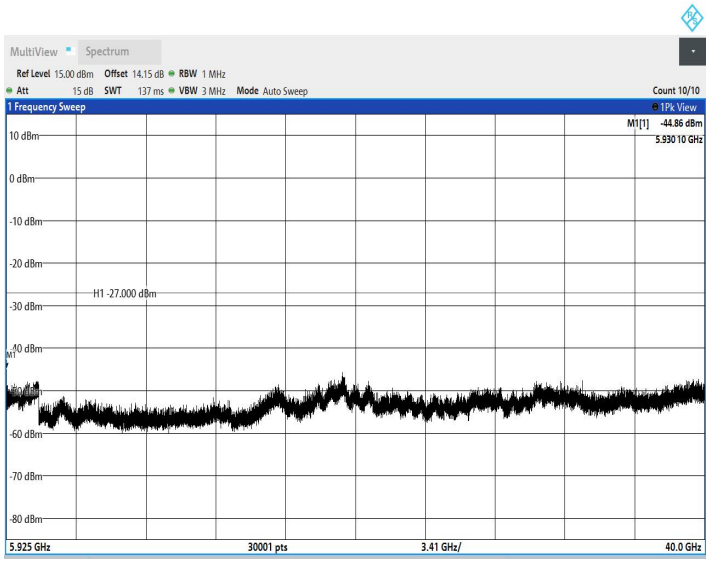

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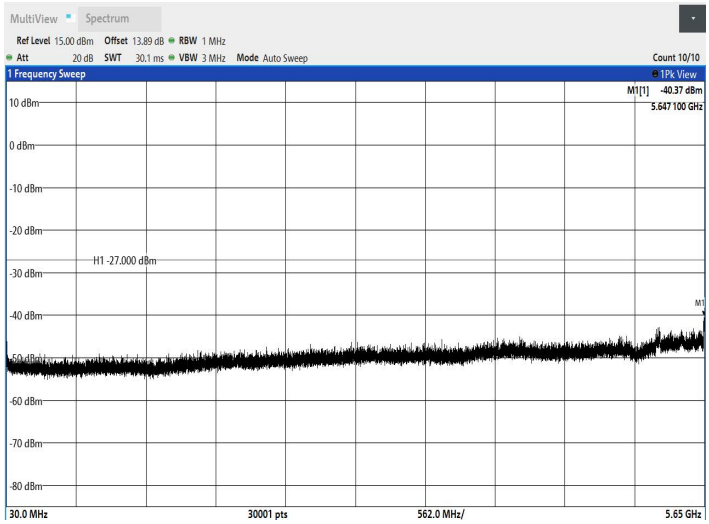
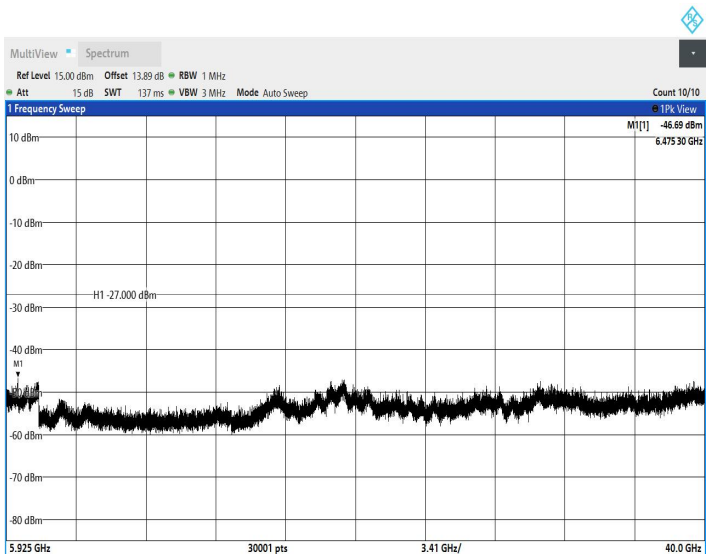


11N40MIMO_Ant1_5755_30~5650



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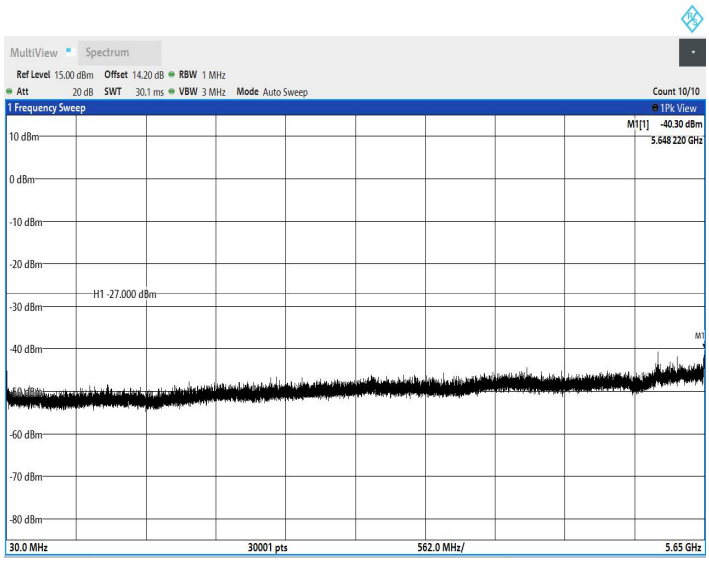

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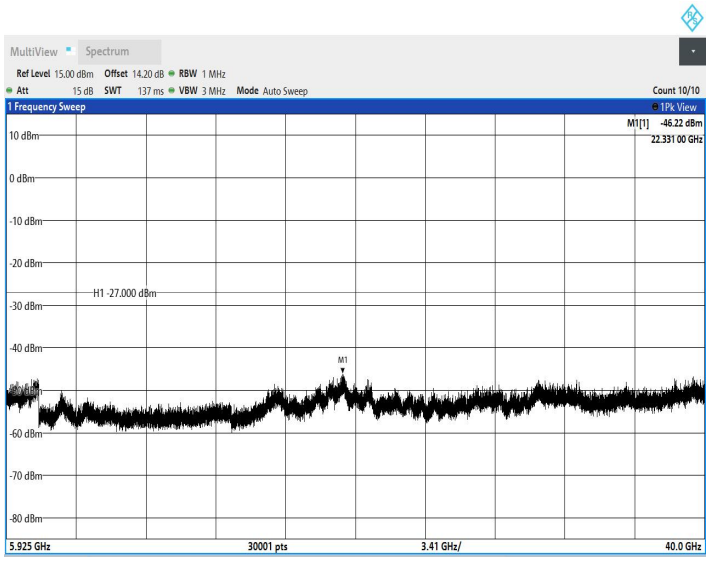

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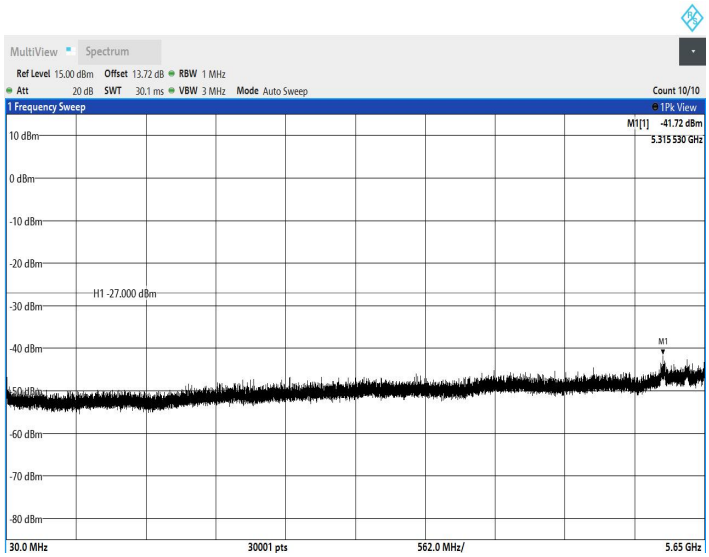

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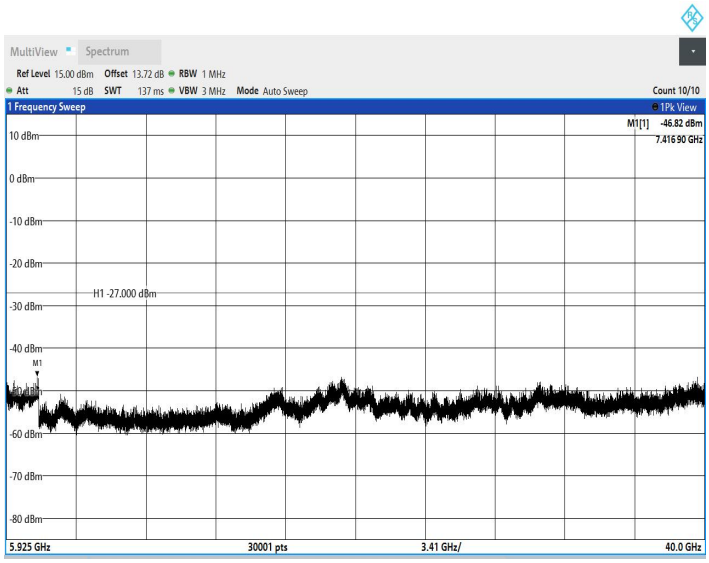

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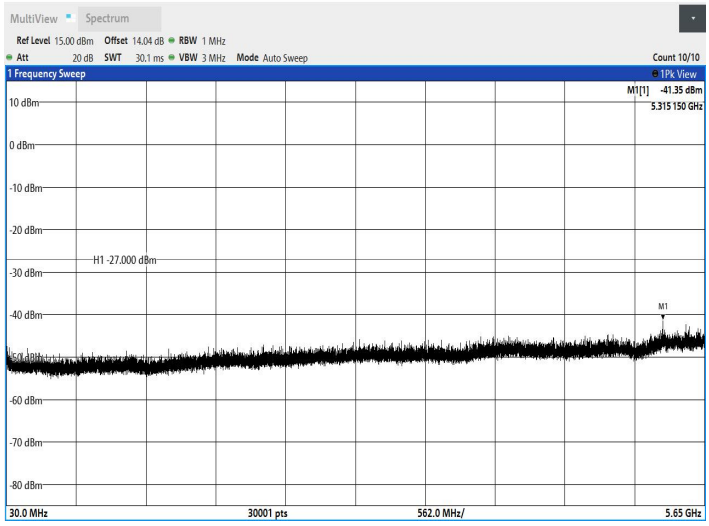

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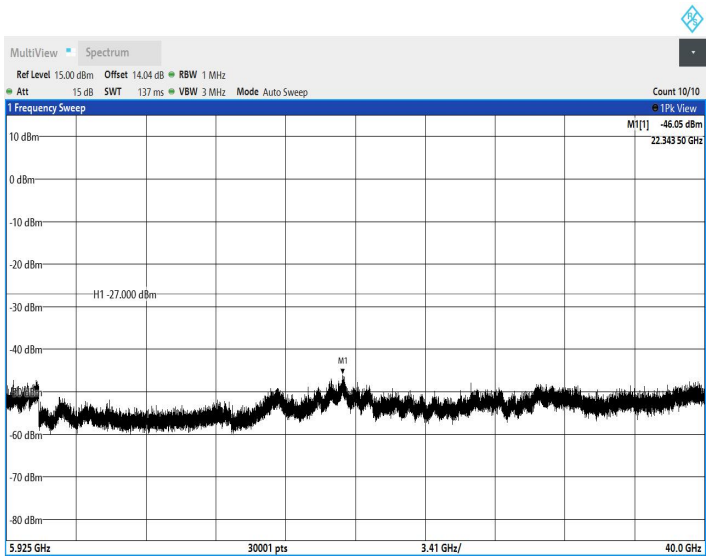

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