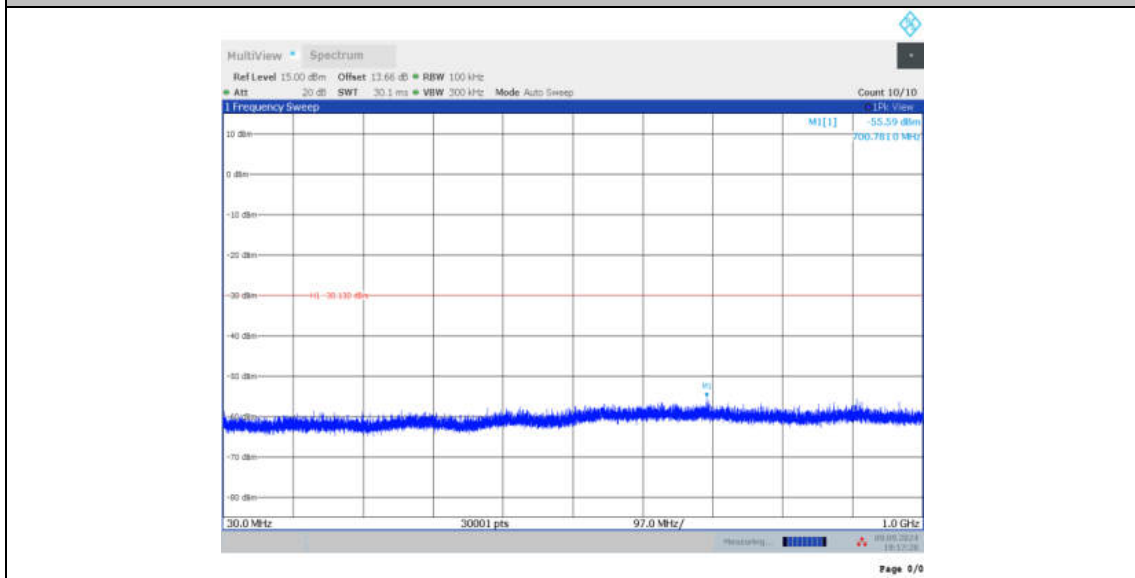
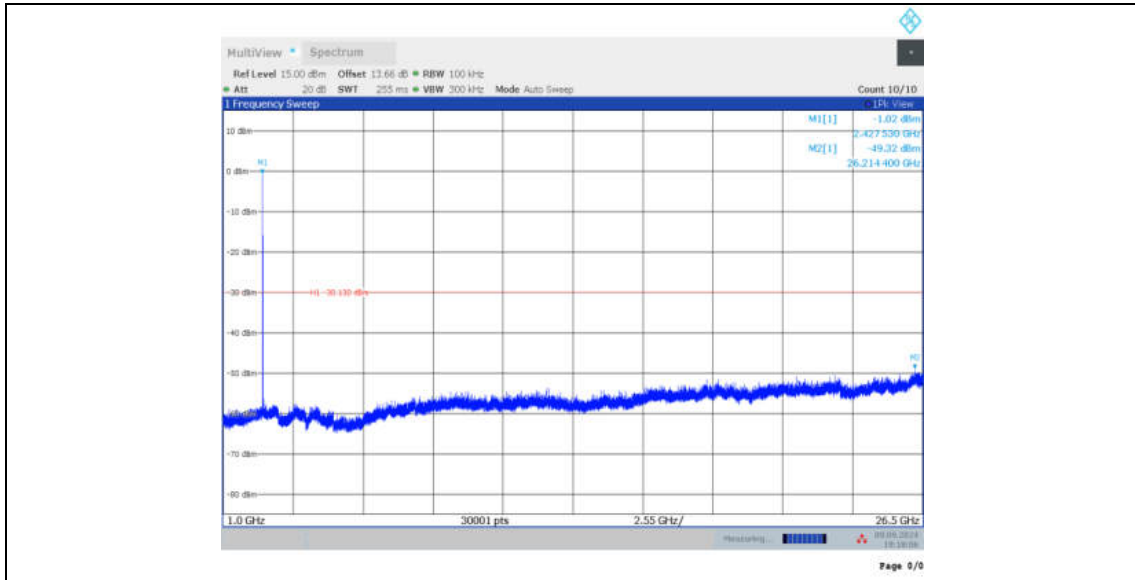


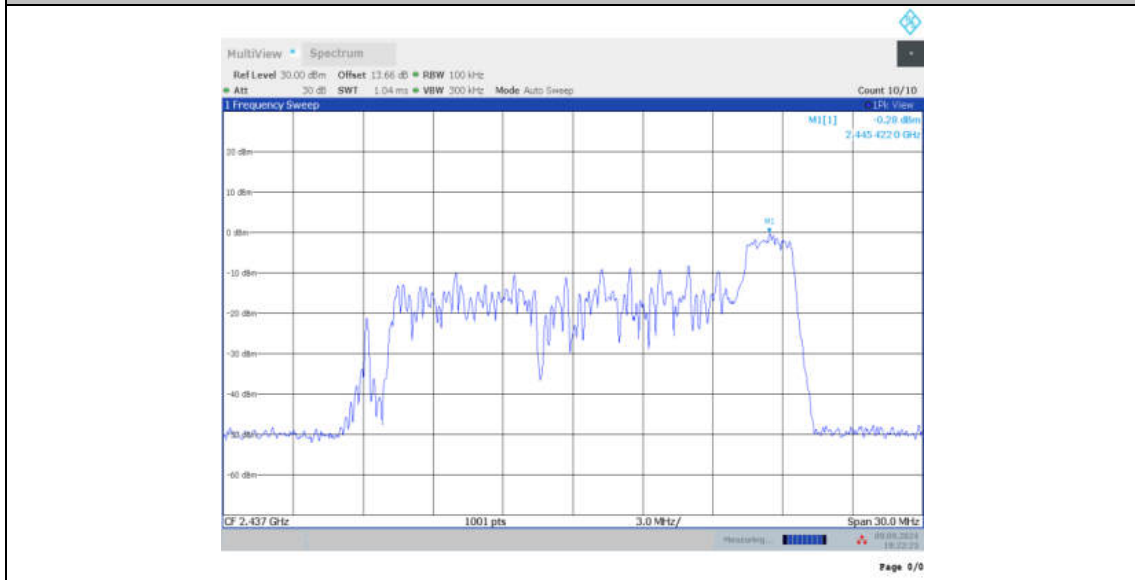
11BE20MIMO_Ant7_2437_26Tone_RU0_30~1000



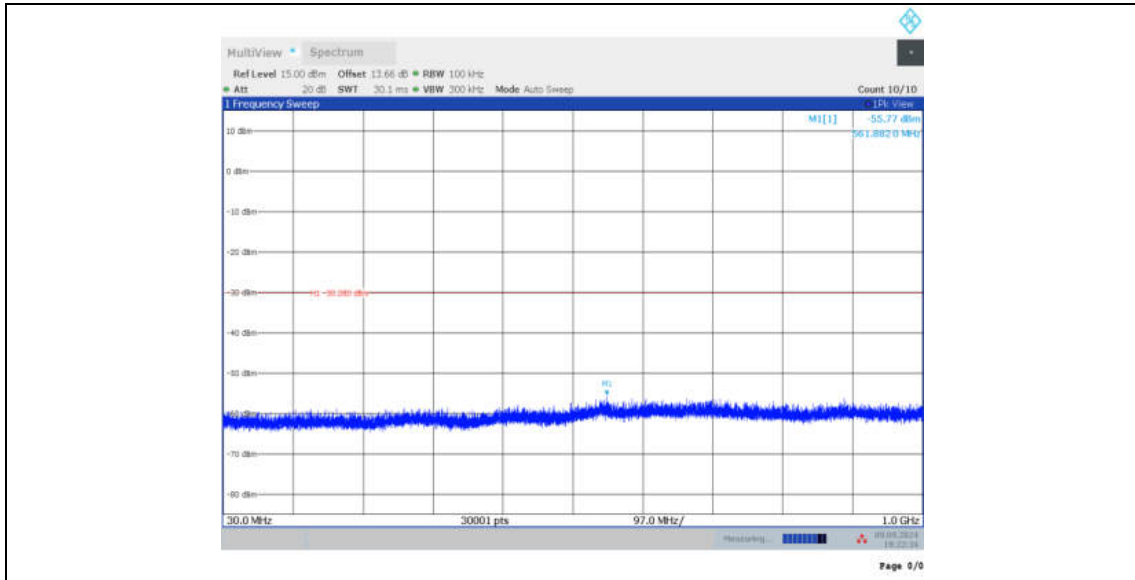
11BE20MIMO_Ant7_2437_26Tone_RU0_1000~26500



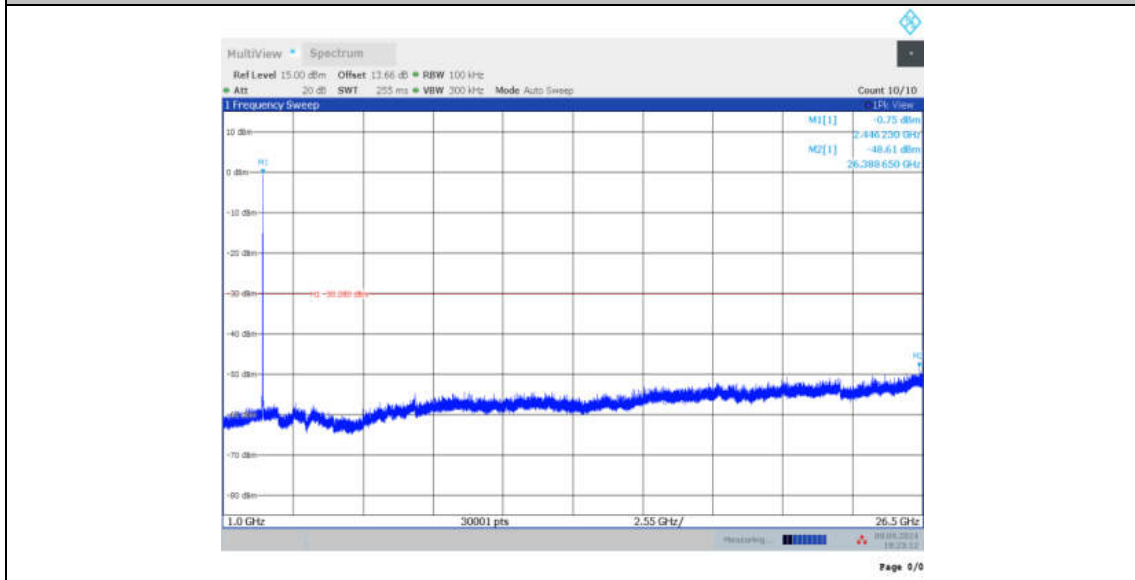
11BE20MIMO_Ant7_2437_26Tone_RU8_0~Reference



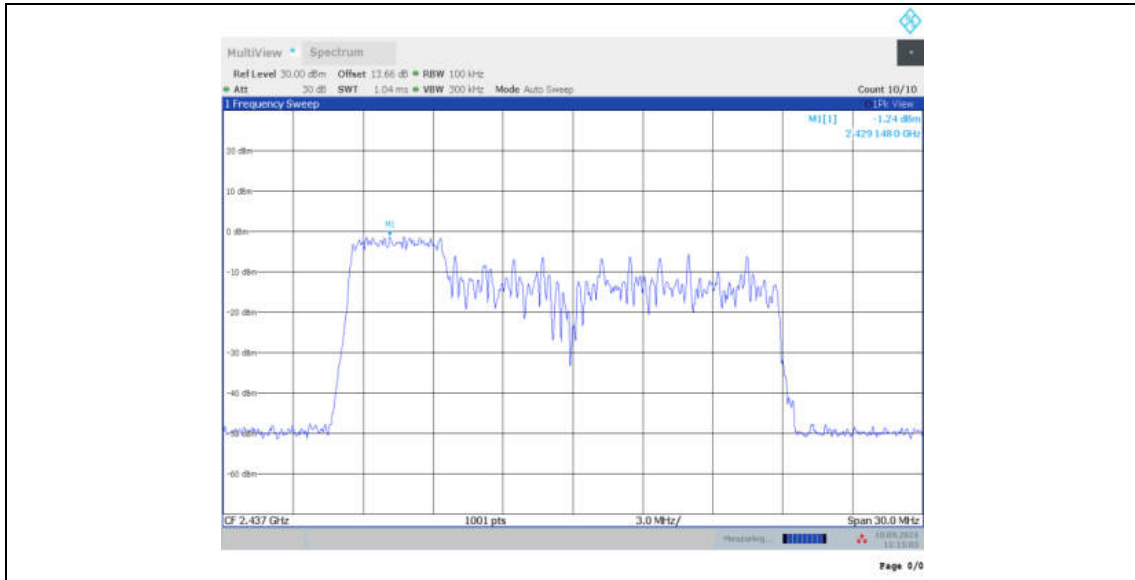
11BE20MIMO_Ant7_2437_26Tone_RU8_30~1000



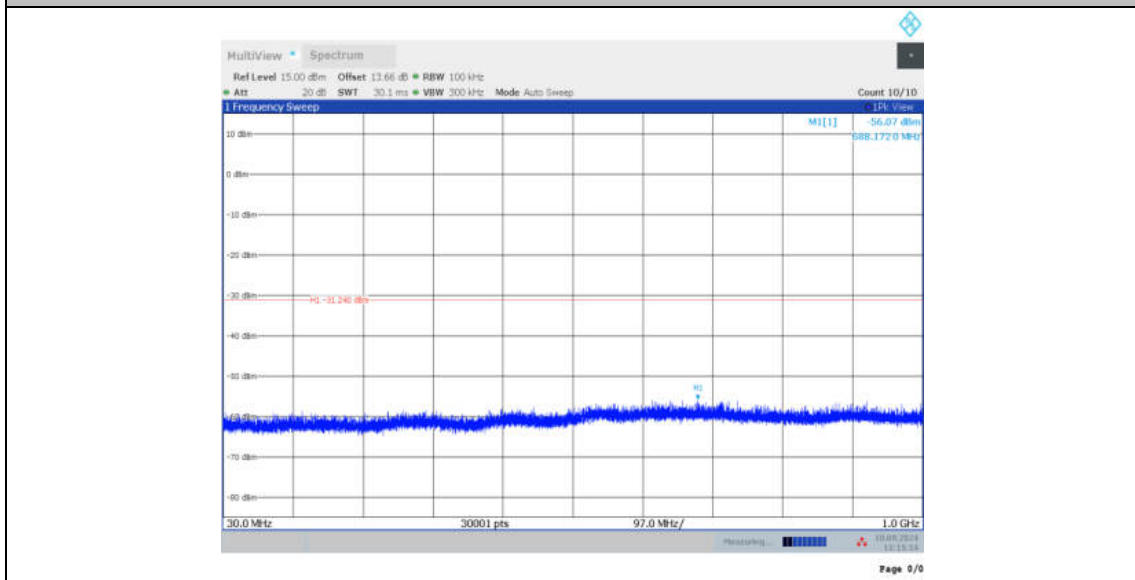
11BE20MIMO_Ant7_2437_26Tone_RU8_1000~26500



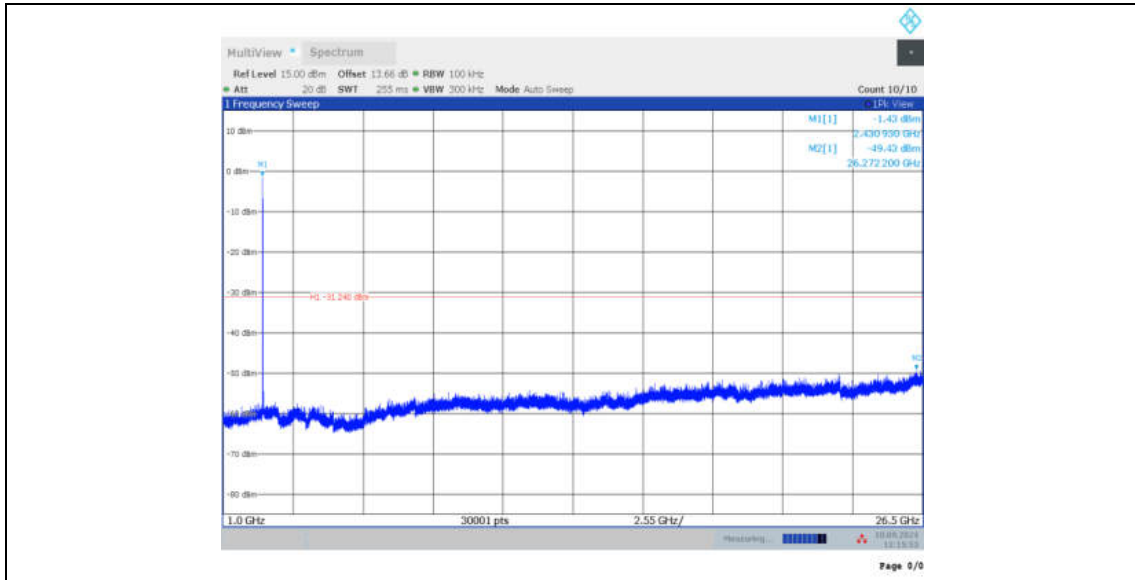
11BE20MIMO_Ant7_2437_52Tone_RU37_0~Reference



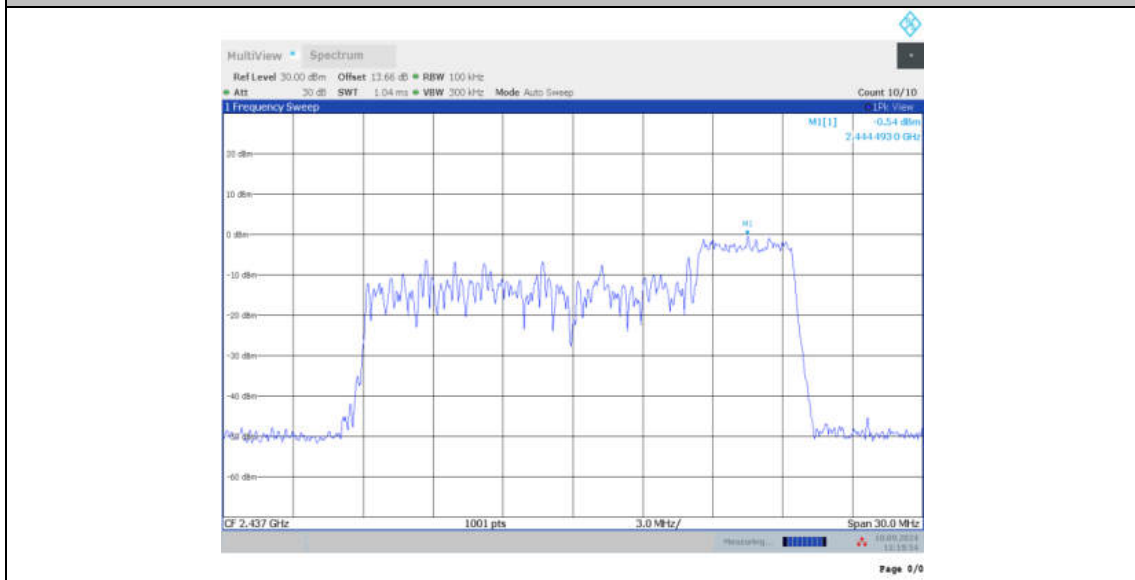
11BE20MIMO_Ant7_2437_52Tone_RU37_30~1000



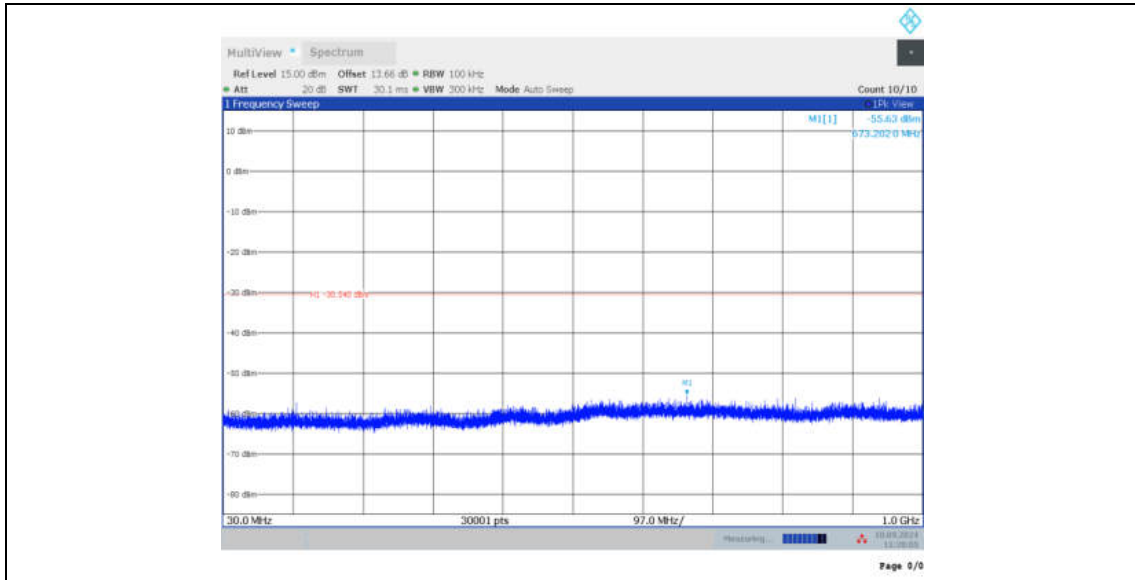
11BE20MIMO_Ant7_2437_52Tone_RU37_1000~26500



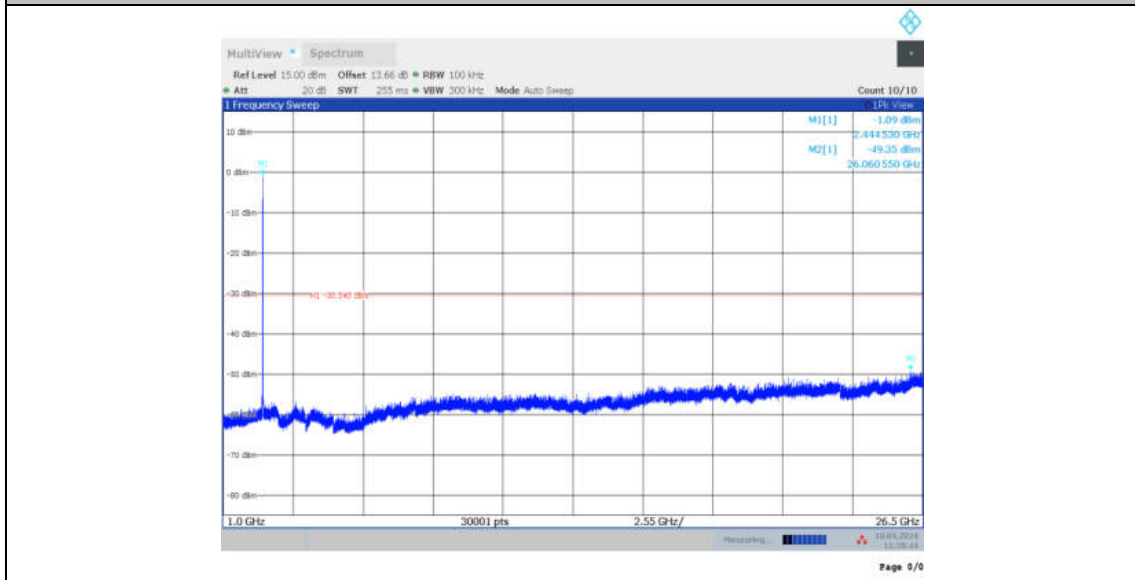
11BE20MIMO_Ant7_2437_52Tone_RU40_0~Reference



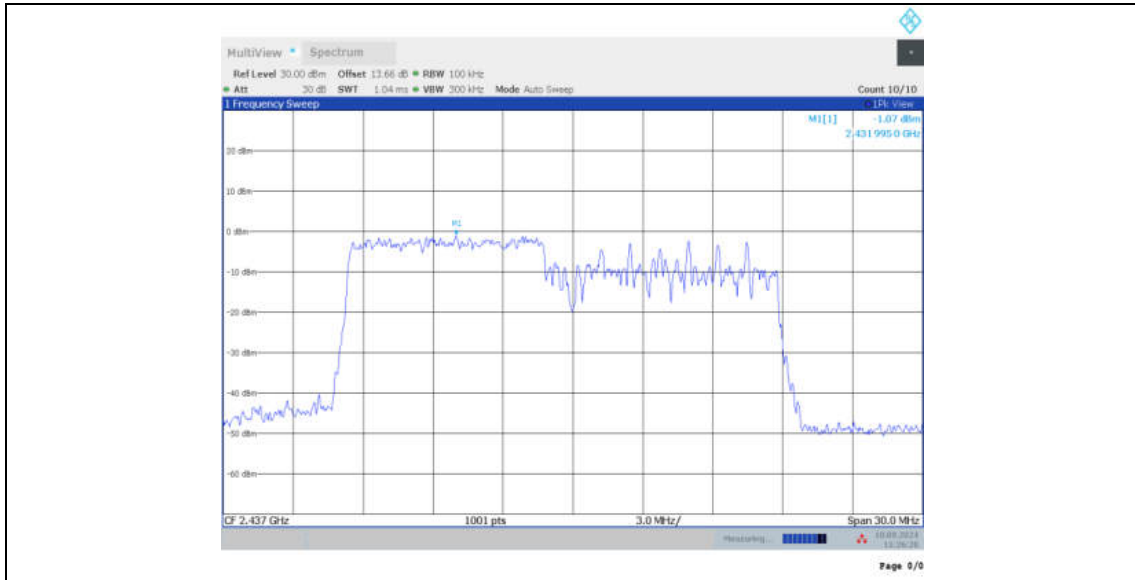
11BE20MIMO_Ant7_2437_52Tone_RU40_30~1000



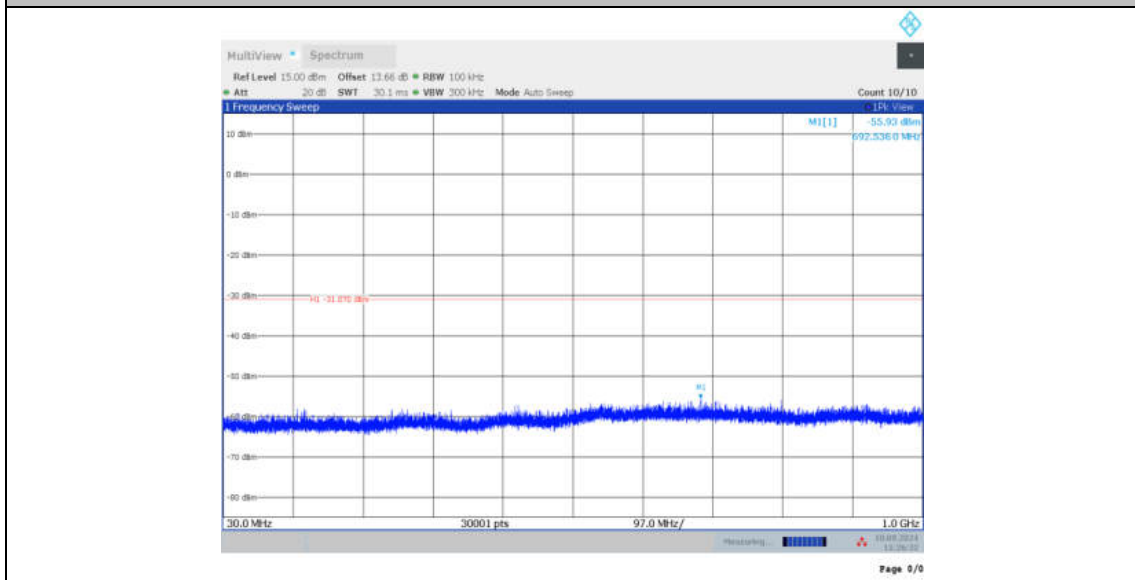
11BE20MIMO_Ant7_2437_52Tone_RU40_1000~26500



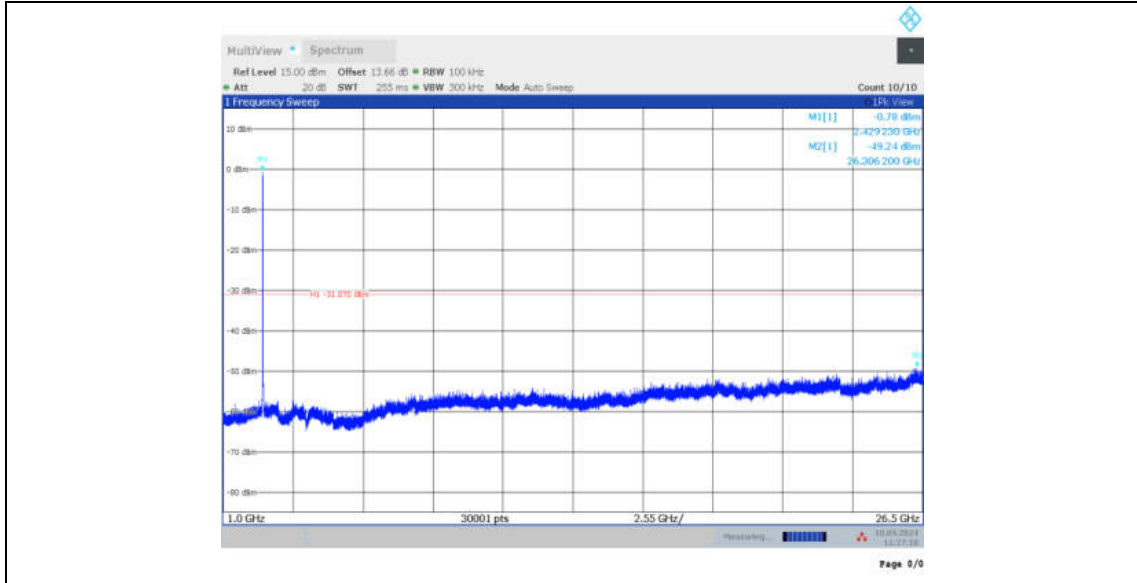
11BE20MIMO_Ant7_2437_106Tone_RU53_0~Reference



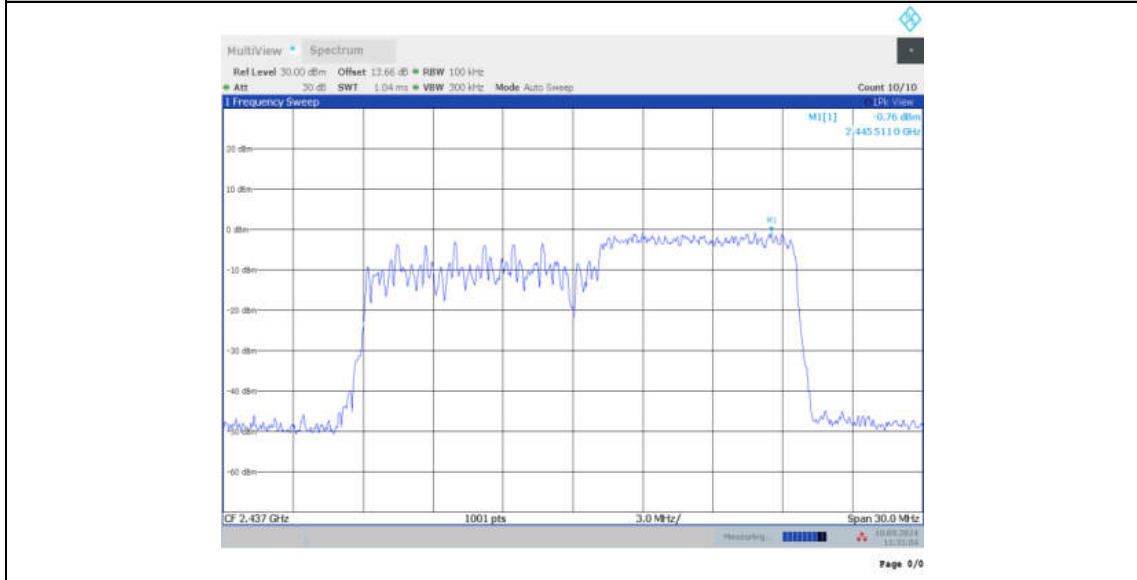
11BE20MIMO_Ant7_2437_106Tone_RU53_30~1000



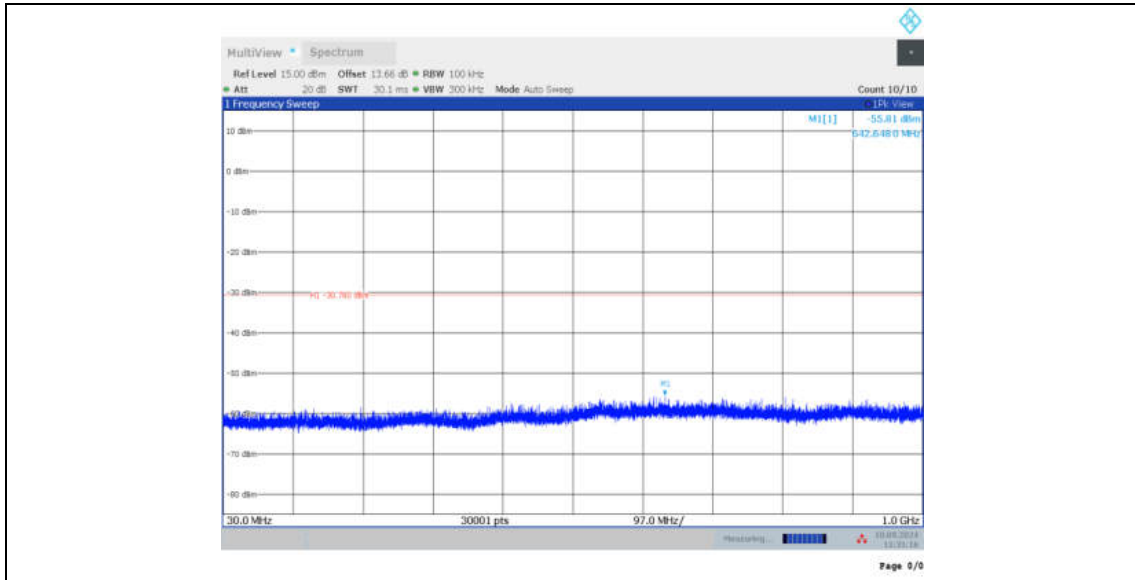
11BE20MIMO_Ant7_2437_106Tone_RU53_1000~26500



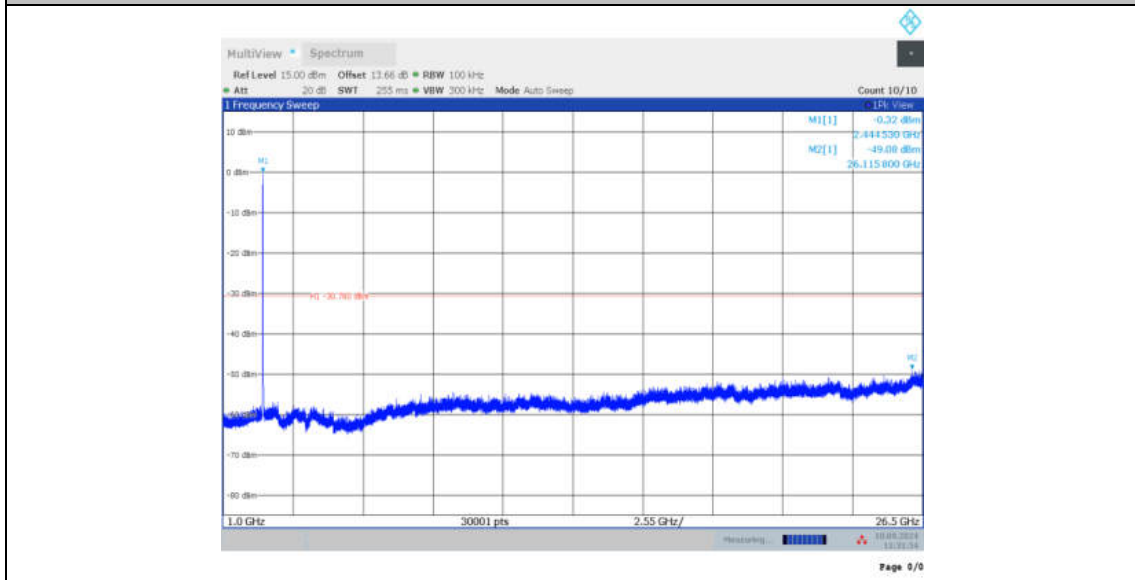
11BE20MIMO_Ant7_2437_106Tone_RU54_0~Reference



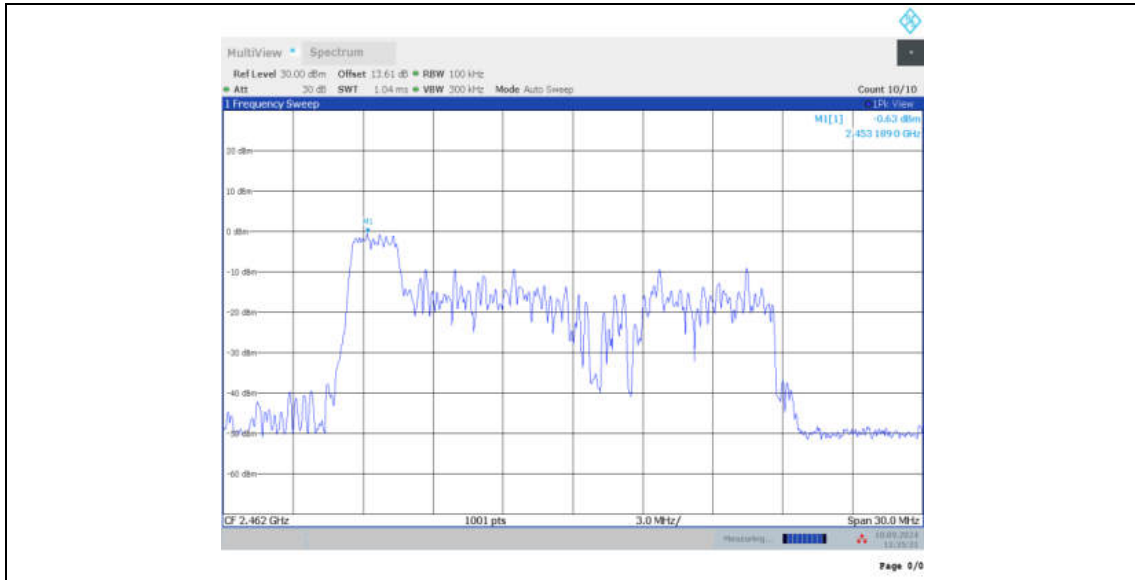
11BE20MIMO_Ant7_2437_106Tone_RU54_30~1000



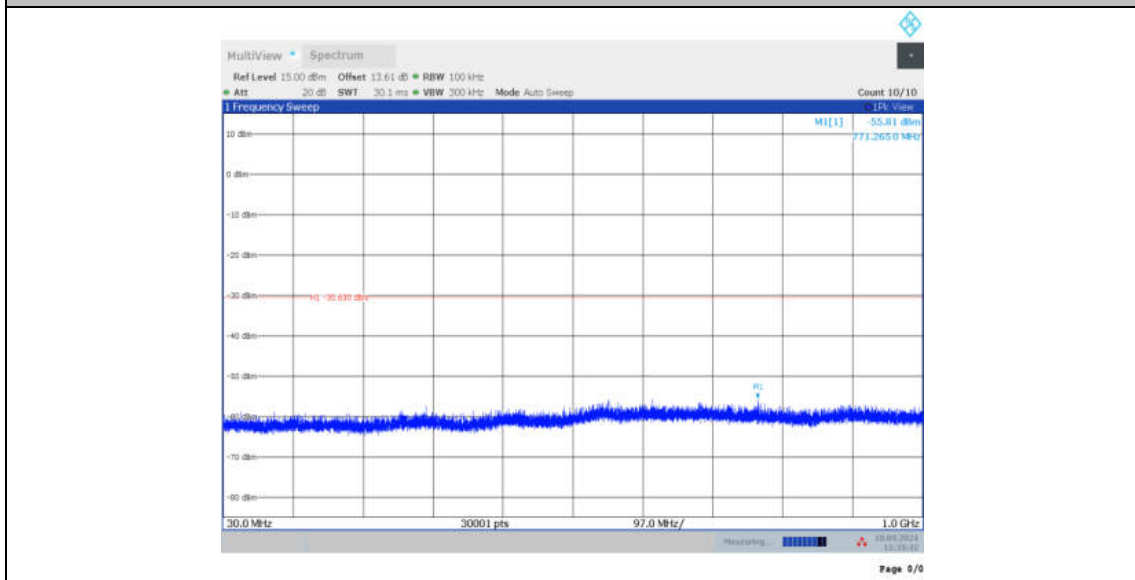
11BE20MIMO_Ant7_2437_106Tone_RU54_1000~26500



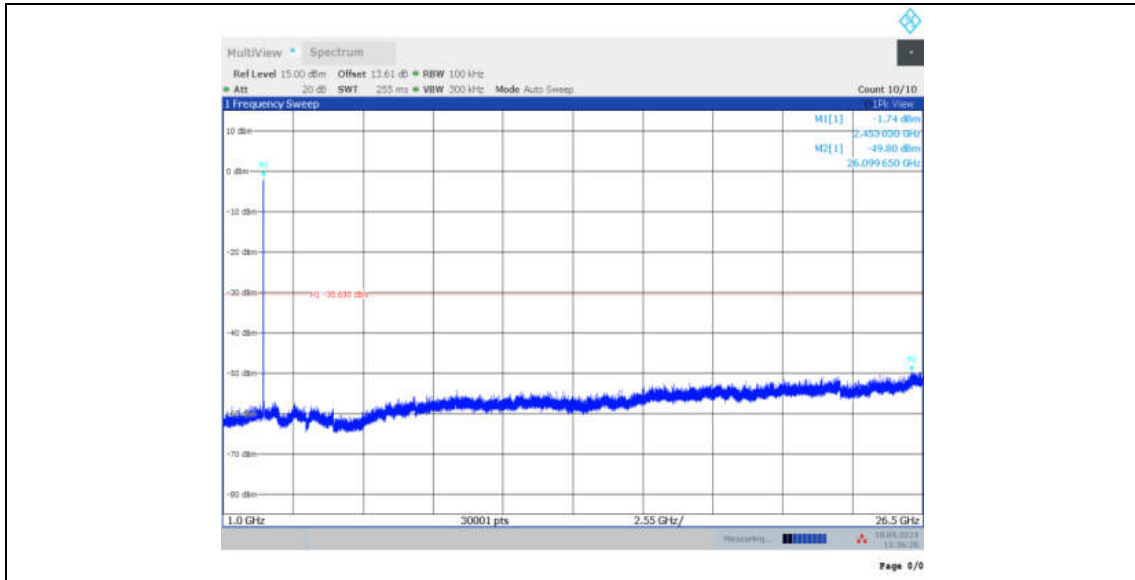
11BE20MIMO_Ant12_2462_26Tone_RU0_0~Reference



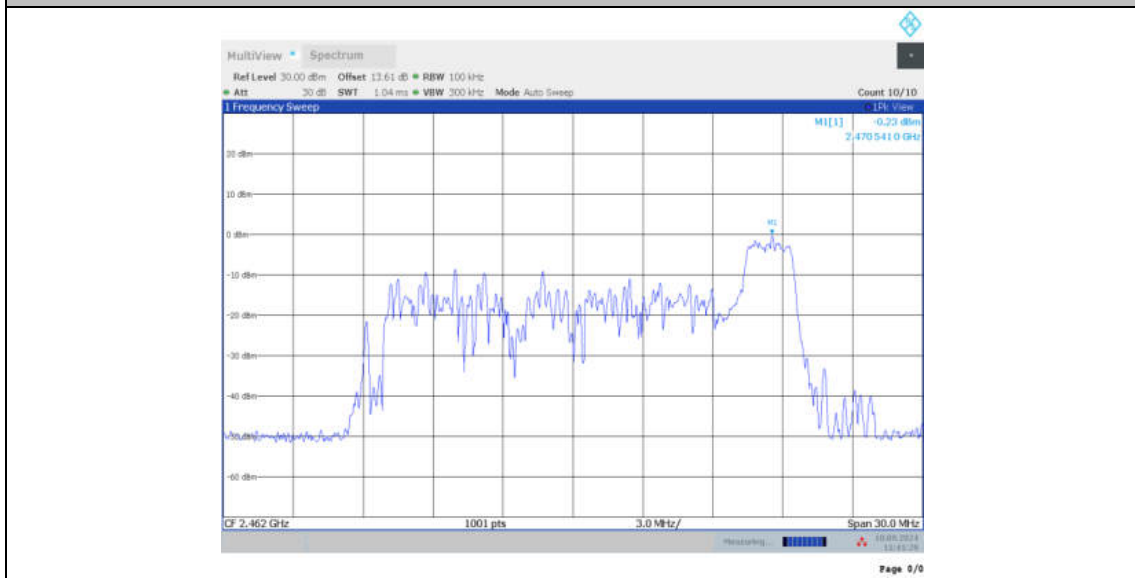
11BE20MIMO_Ant12_2462_26Tone_RU0_30~1000



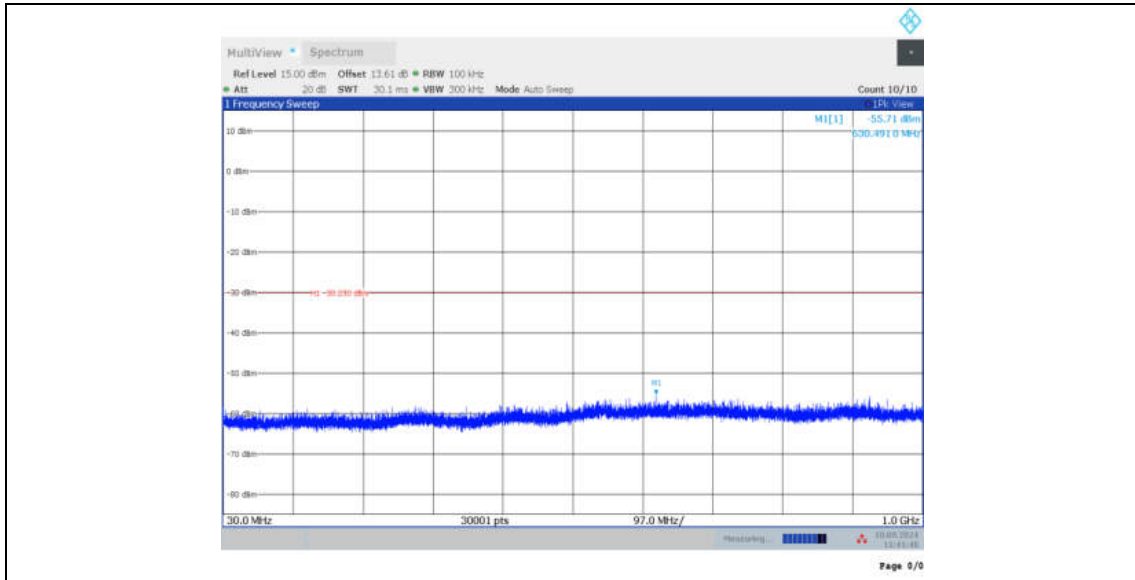
11BE20MIMO_Ant12_2462_26Tone_RU0_1000~26500



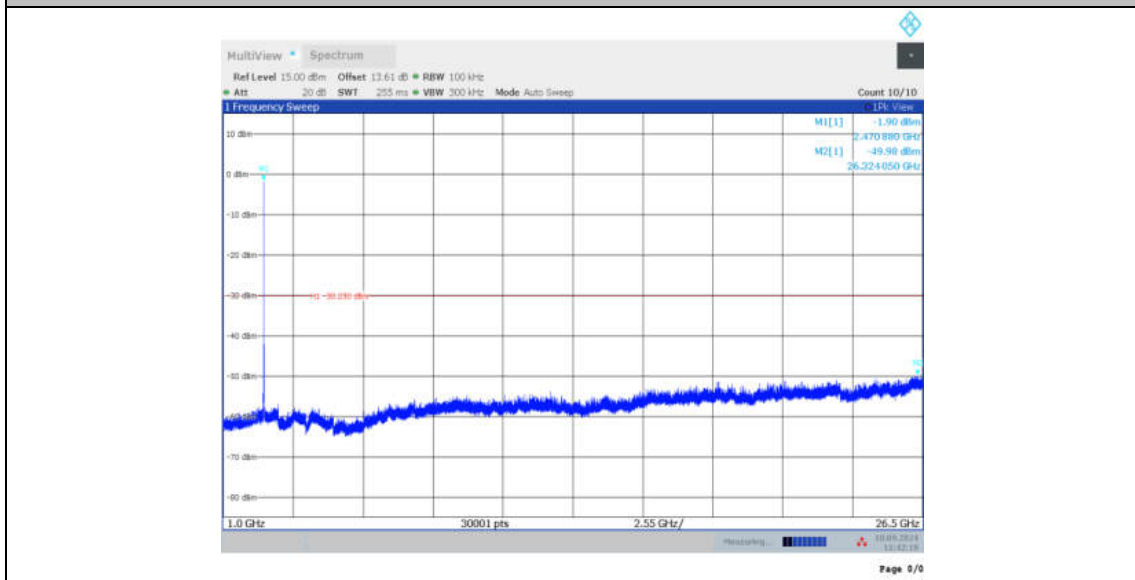
11BE20MIMO_Ant12_2462_26Tone_RU8_0~Reference



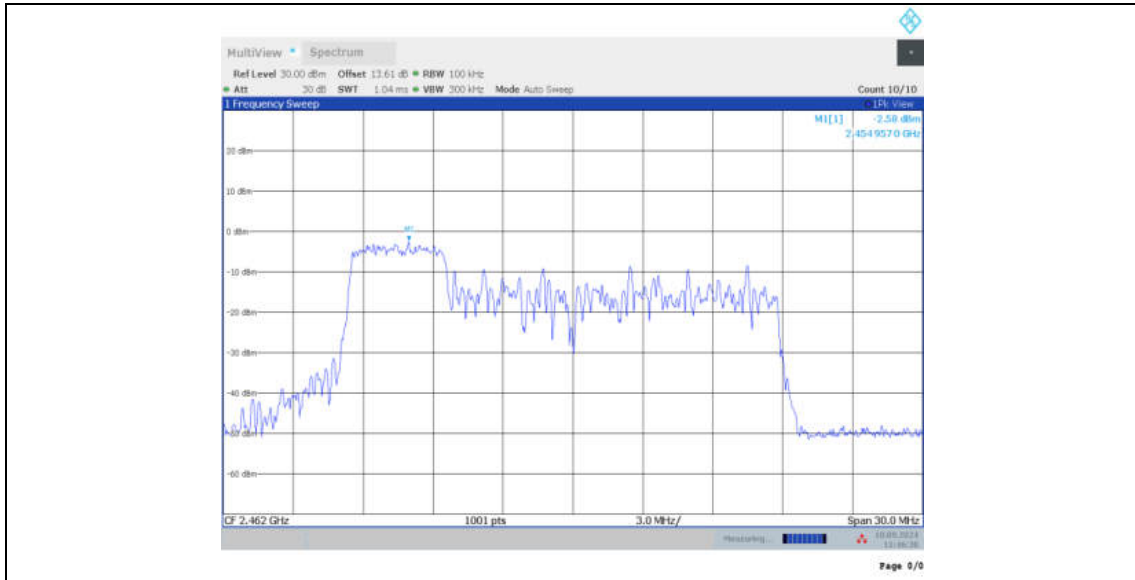
11BE20MIMO_Ant12_2462_26Tone_RU8_30~1000



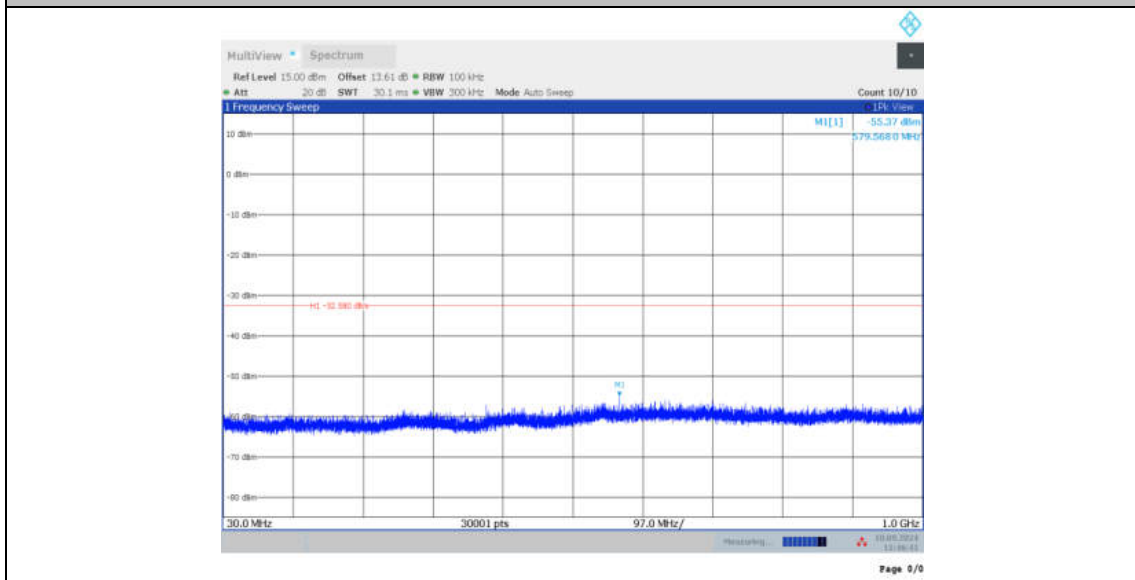
11BE20MIMO_Ant12_2462_26Tone_RU8_1000~26500



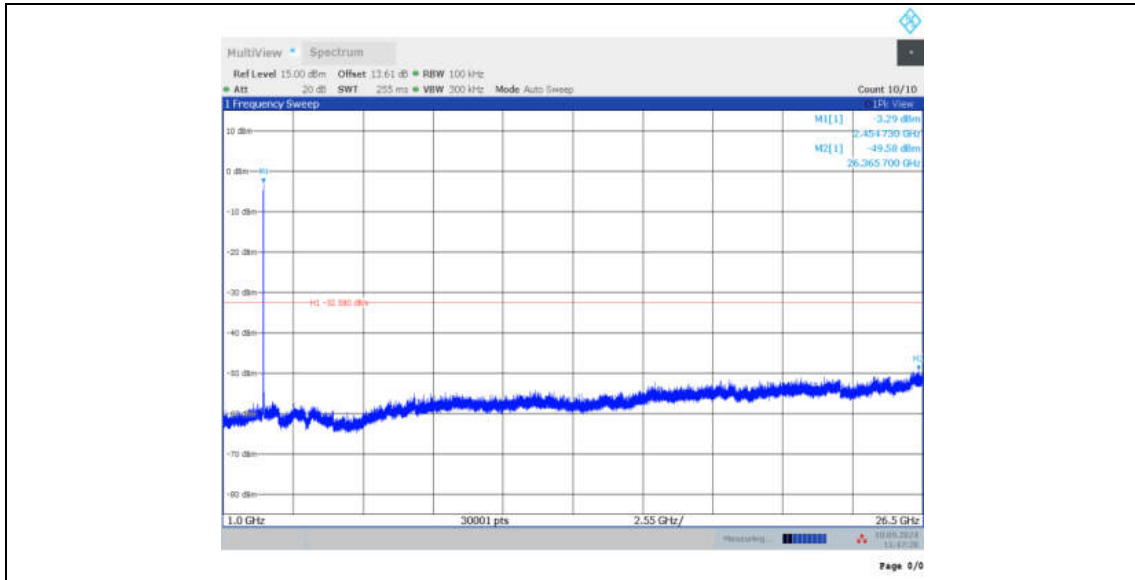
11BE20MIMO_Ant12_2462_52Tone_RU37_0~Reference



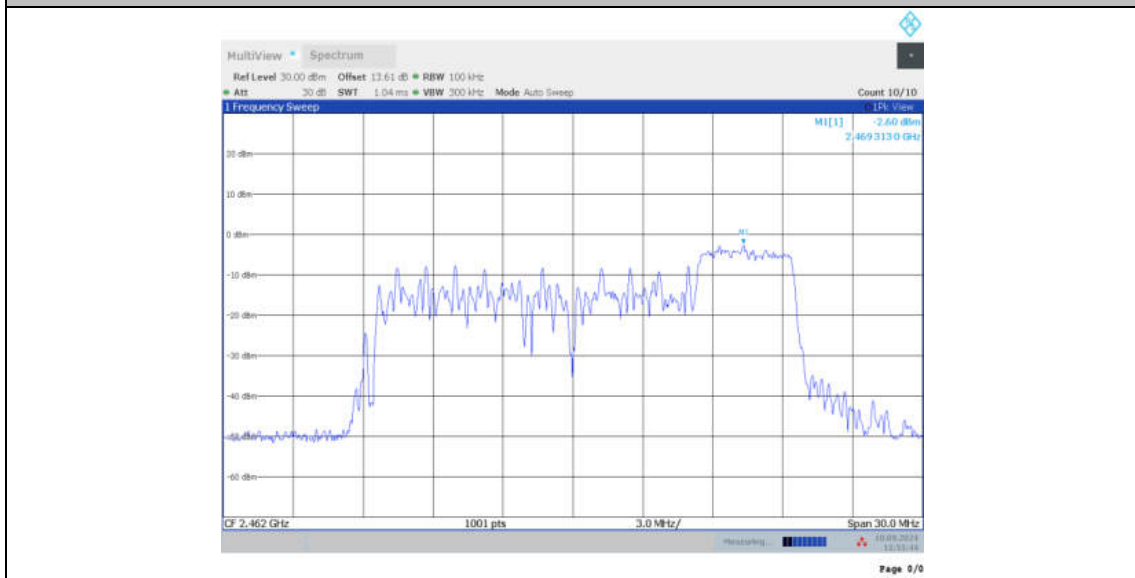
11BE20MIMO_Ant12_2462_52Tone_RU37_30~1000



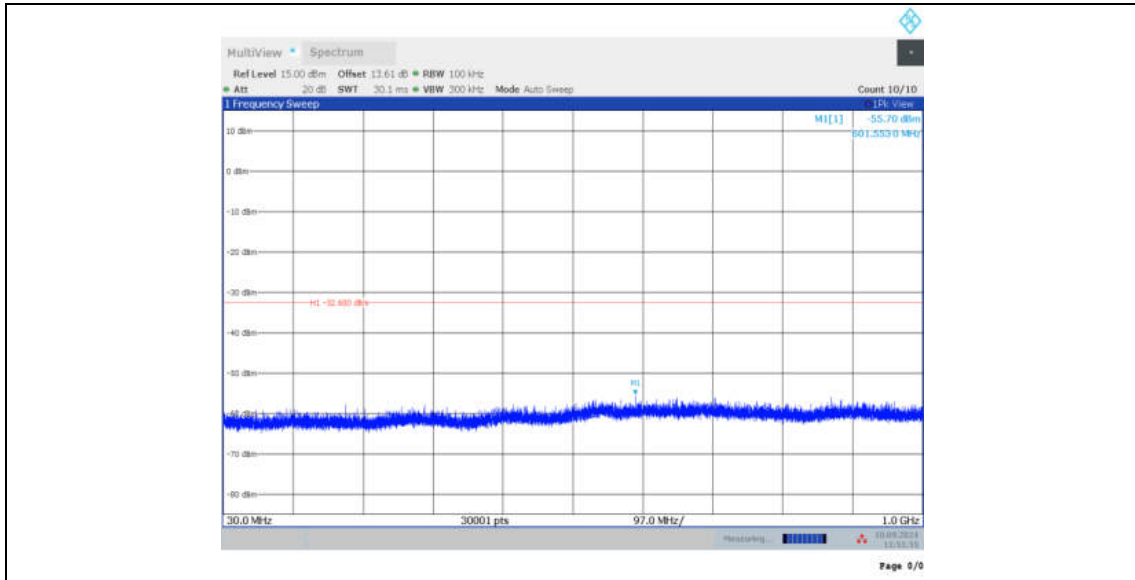
11BE20MIMO_Ant12_2462_52Tone_RU37_1000~26500



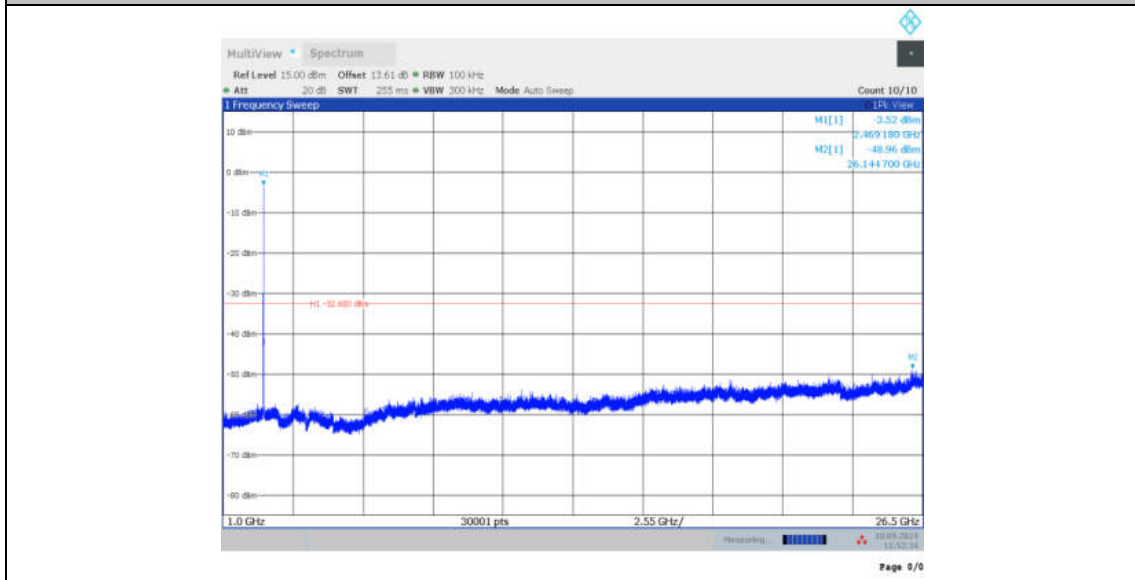
11BE20MIMO_Ant12_2462_52Tone_RU40_0~Reference



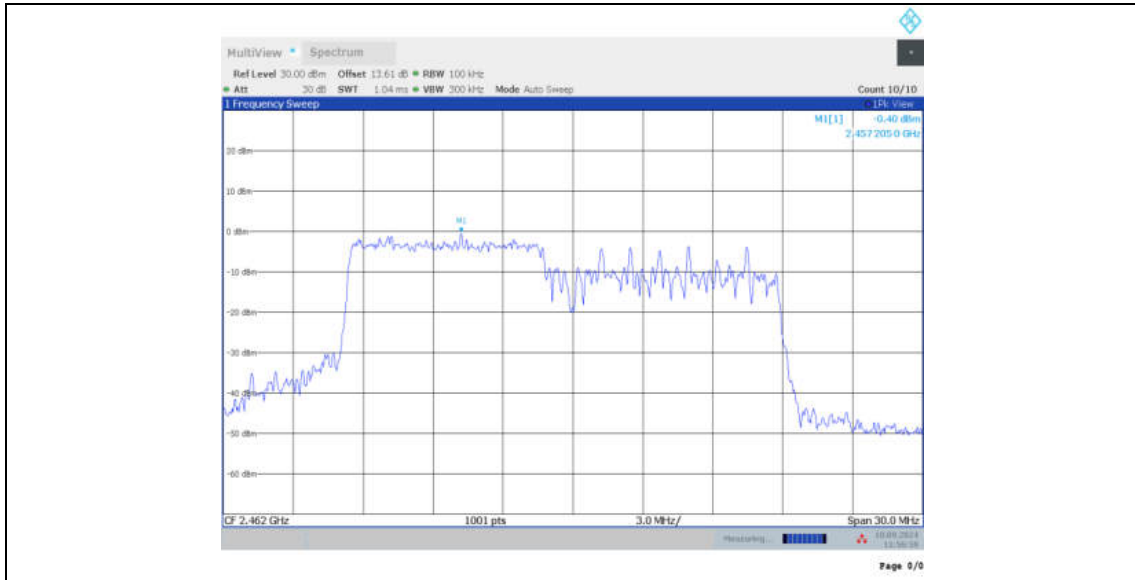
11BE20MIMO_Ant12_2462_52Tone_RU40_30~1000



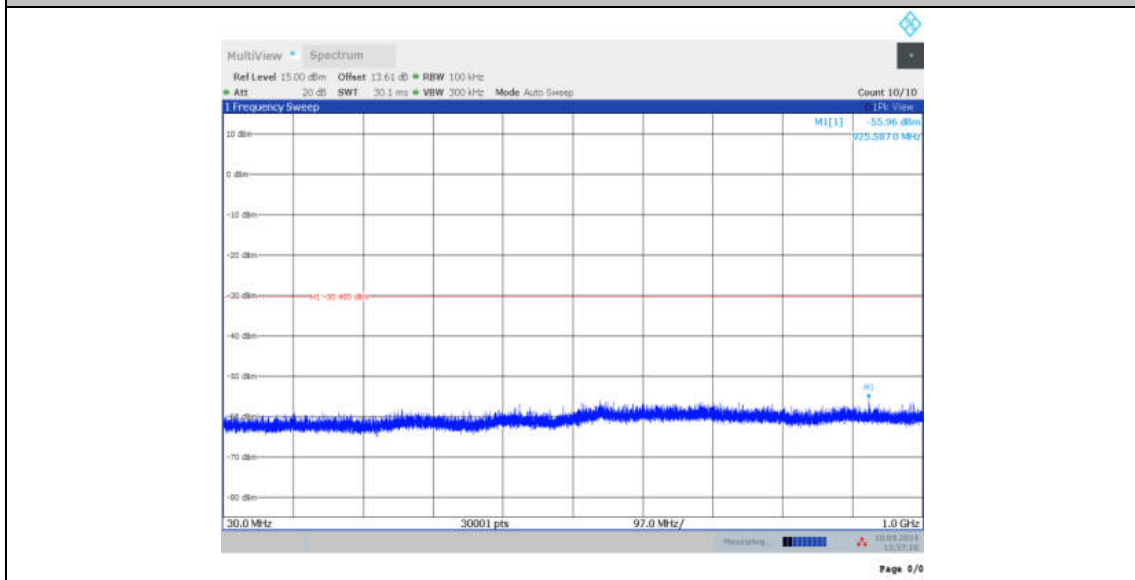
11BE20MIMO_Ant12_2462_52Tone_RU40_1000~26500



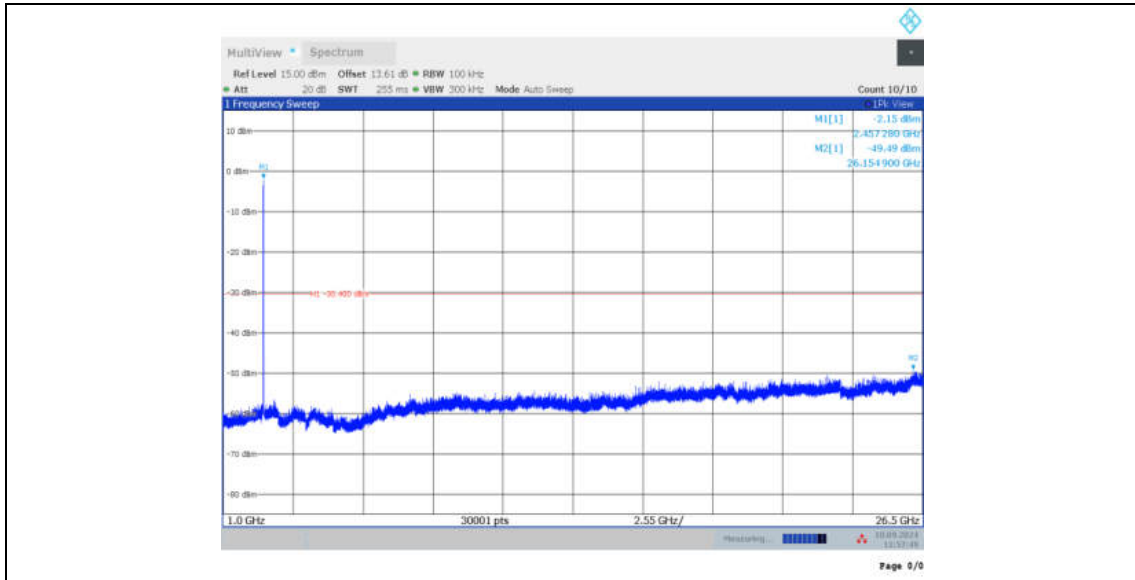
11BE20MIMO_Ant12_2462_106Tone_RU53_0~Reference



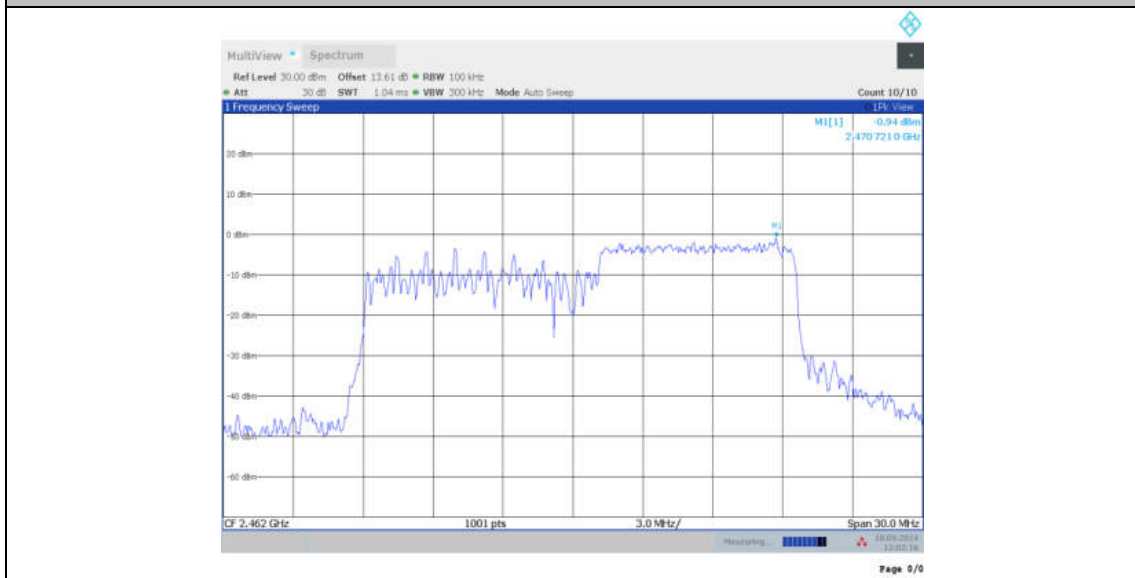
11BE20MIMO_Ant12_2462_106Tone_RU53_30~1000



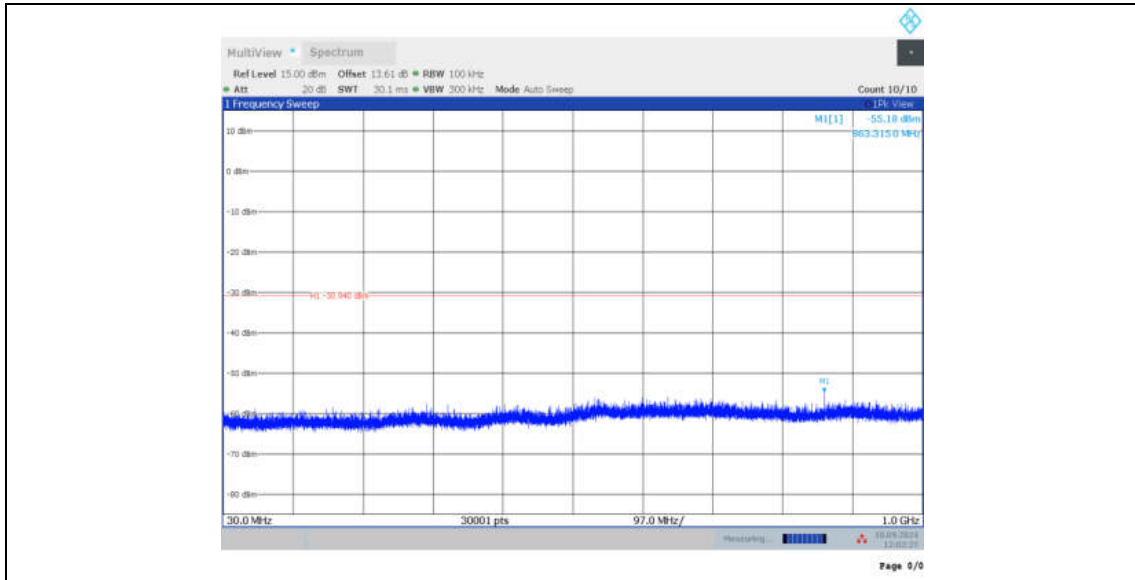
11BE20MIMO_Ant12_2462_106Tone_RU53_1000~26500



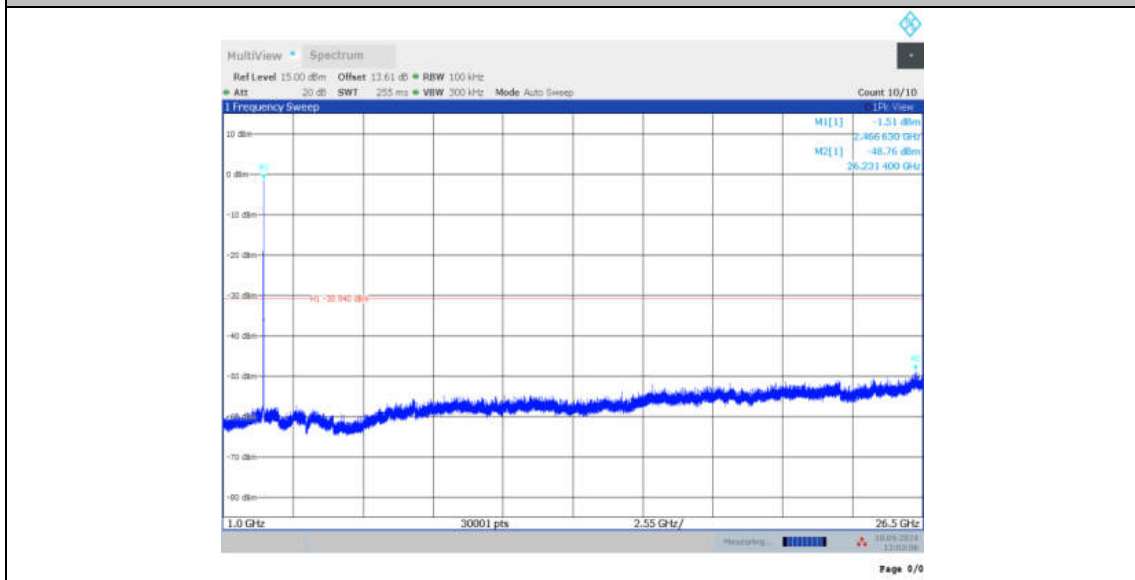
11BE20MIMO_Ant12_2462_106Tone_RU54_0~Reference



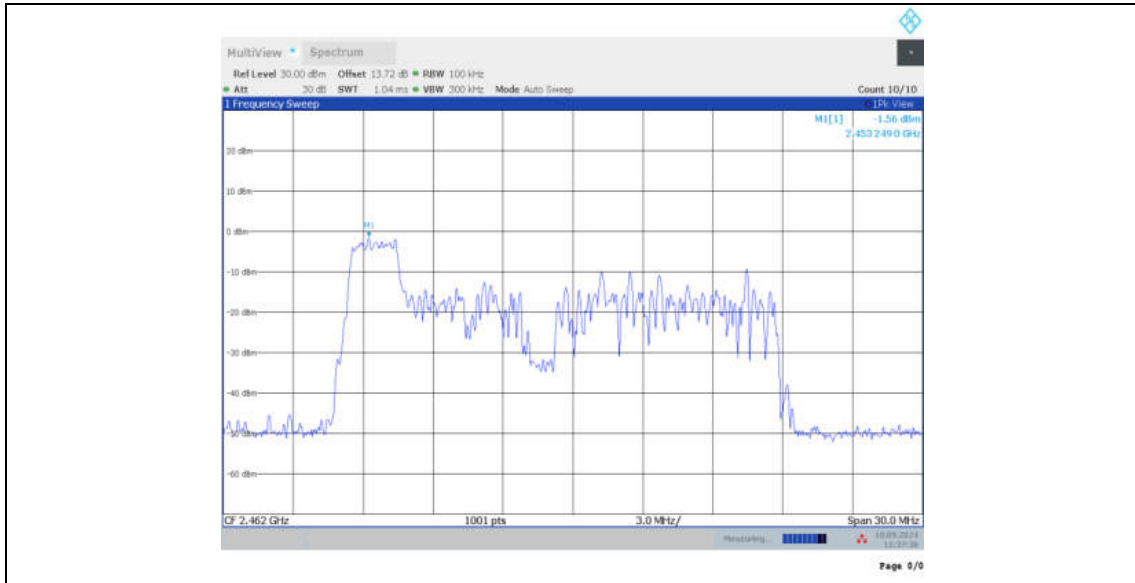
11BE20MIMO_Ant12_2462_106Tone_RU54_30~1000



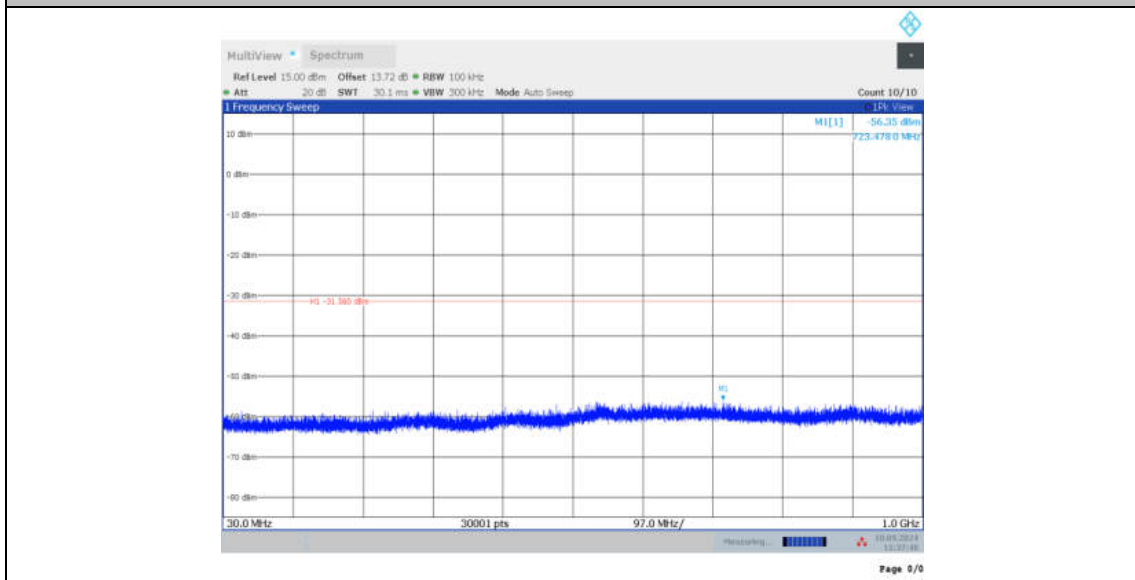
11BE20MIMO_Ant12_2462_106Tone_RU54_1000~26500



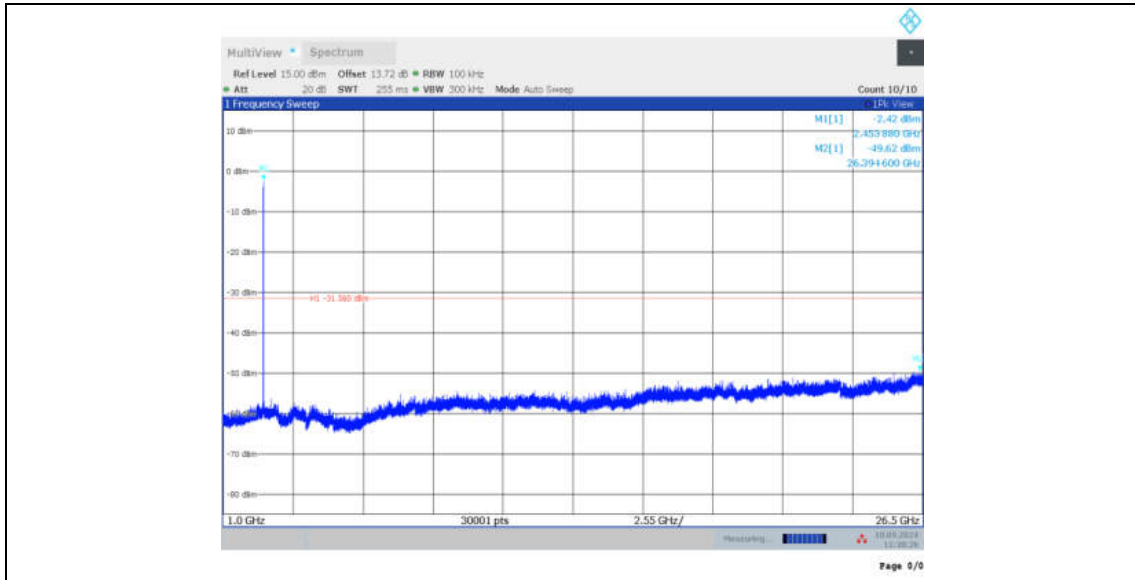
11BE20MIMO_Ant7_2462_26Tone_RU0_0~Reference



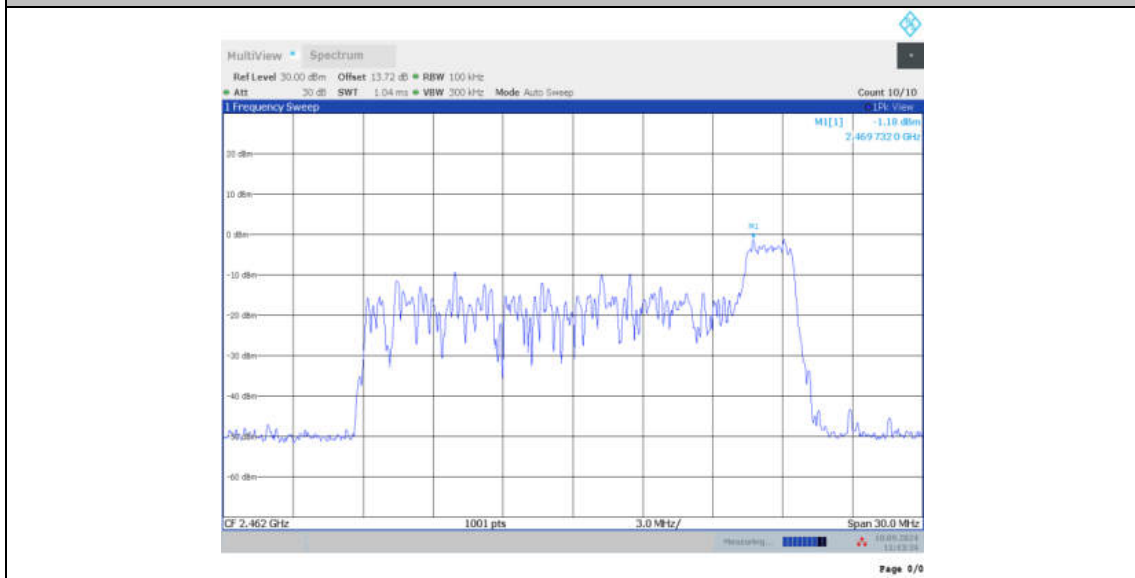
11BE20MIMO_Ant7_2462_26Tone_RU0_30~1000



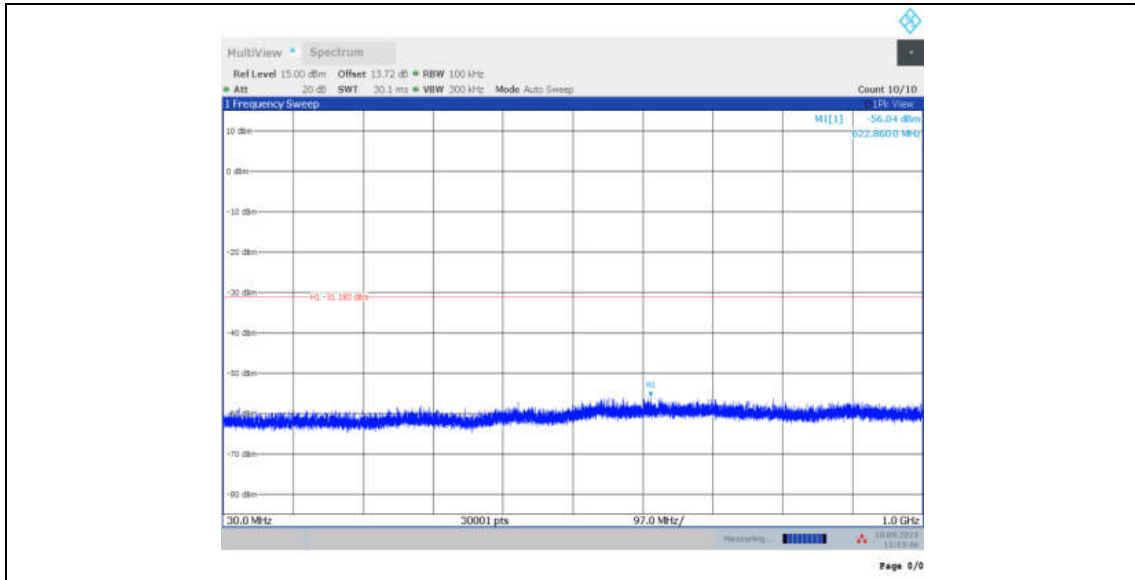
11BE20MIMO_Ant7_2462_26Tone_RU0_1000~26500



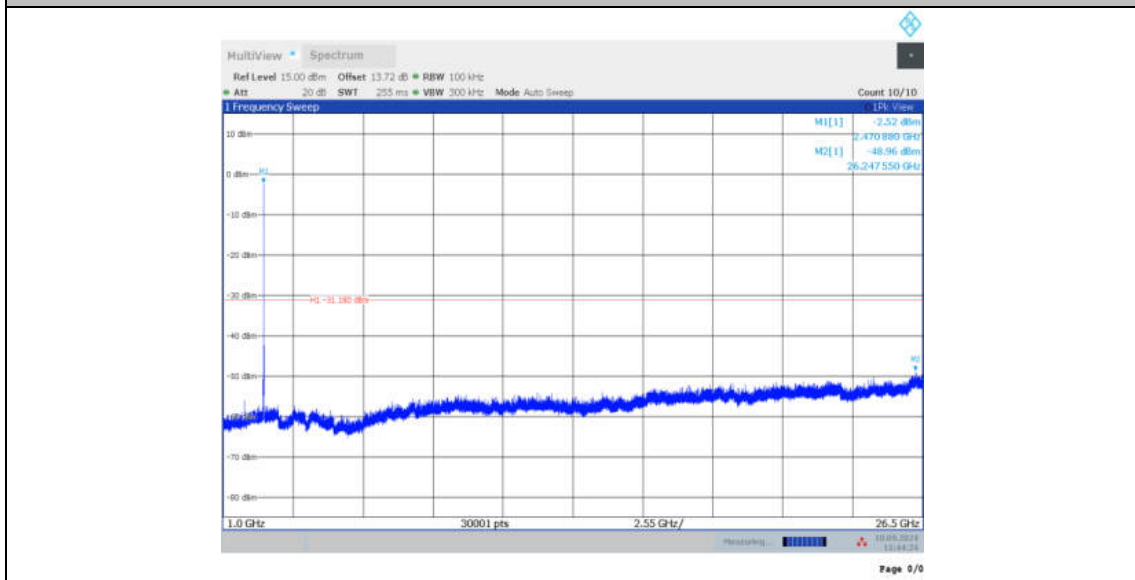
11BE20MIMO_Ant7_2462_26Tone_RU8_0~Reference



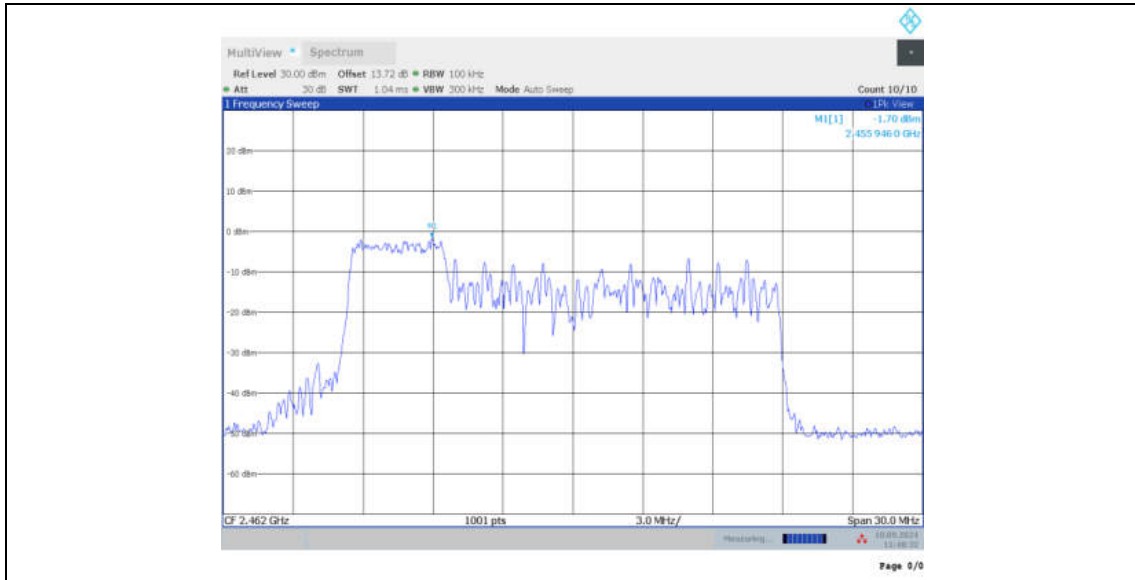
11BE20MIMO_Ant7_2462_26Tone_RU8_30~1000



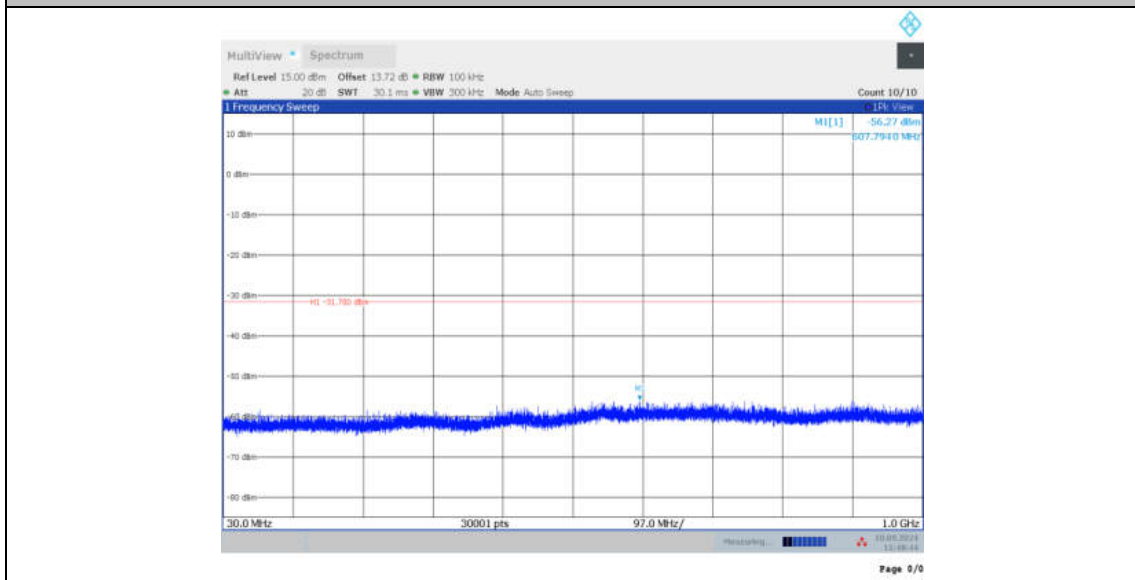
11BE20MIMO_Ant7_2462_26Tone_RU8_1000~26500



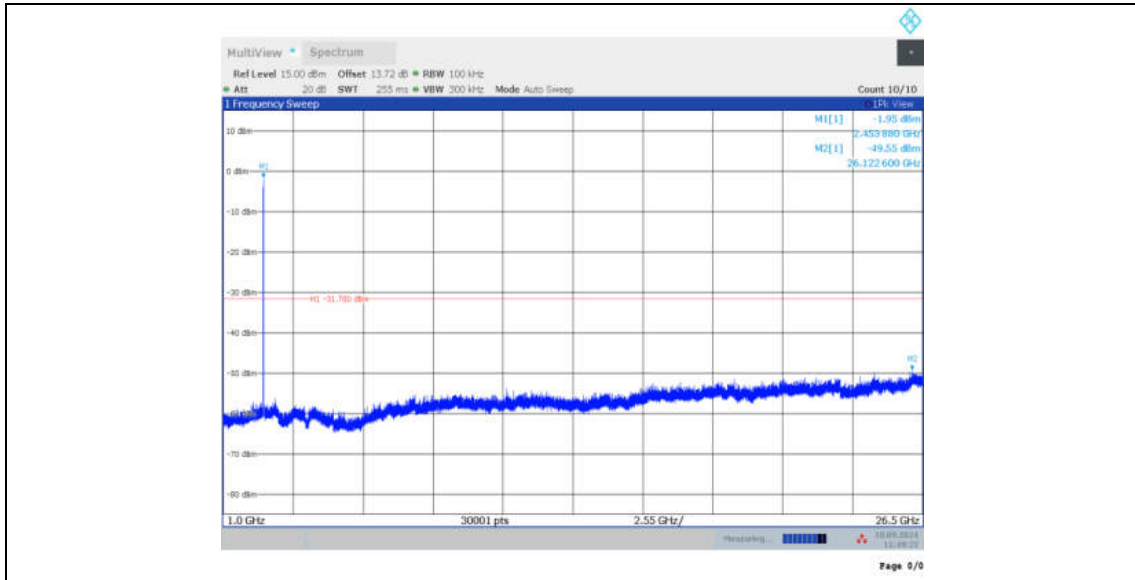
11BE20MIMO_Ant7_2462_52Tone_RU37_0~Reference



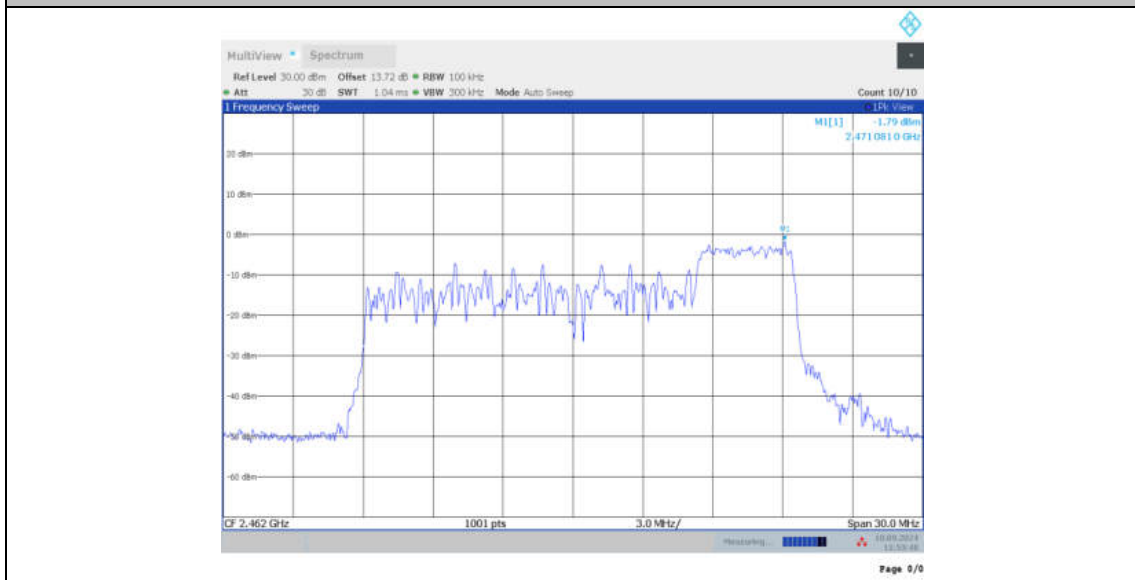
11BE20MIMO_Ant7_2462_52Tone_RU37_30~1000



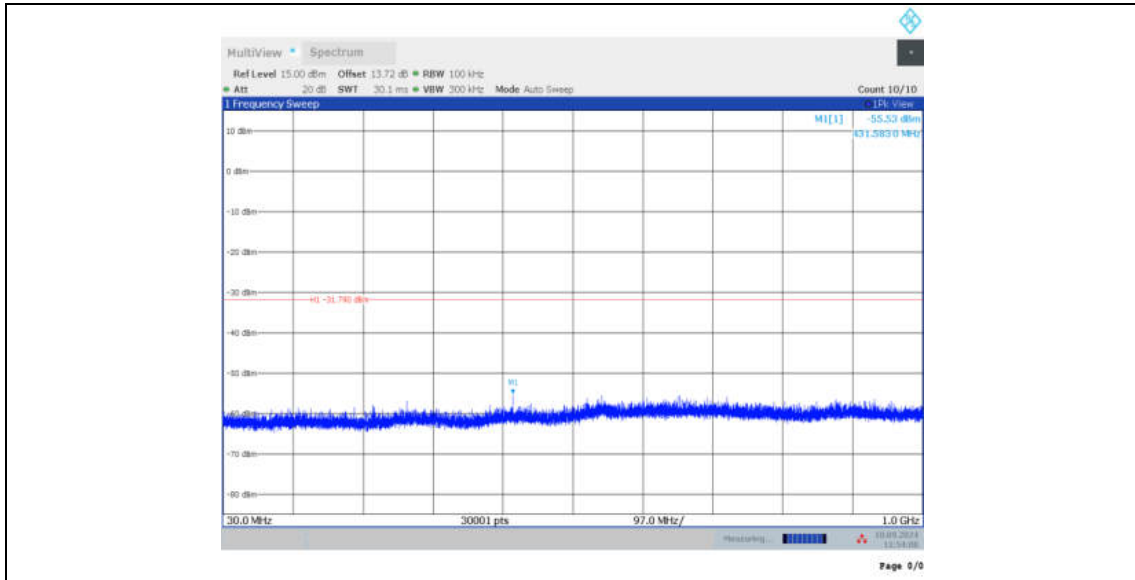
11BE20MIMO_Ant7_2462_52Tone_RU37_1000~26500



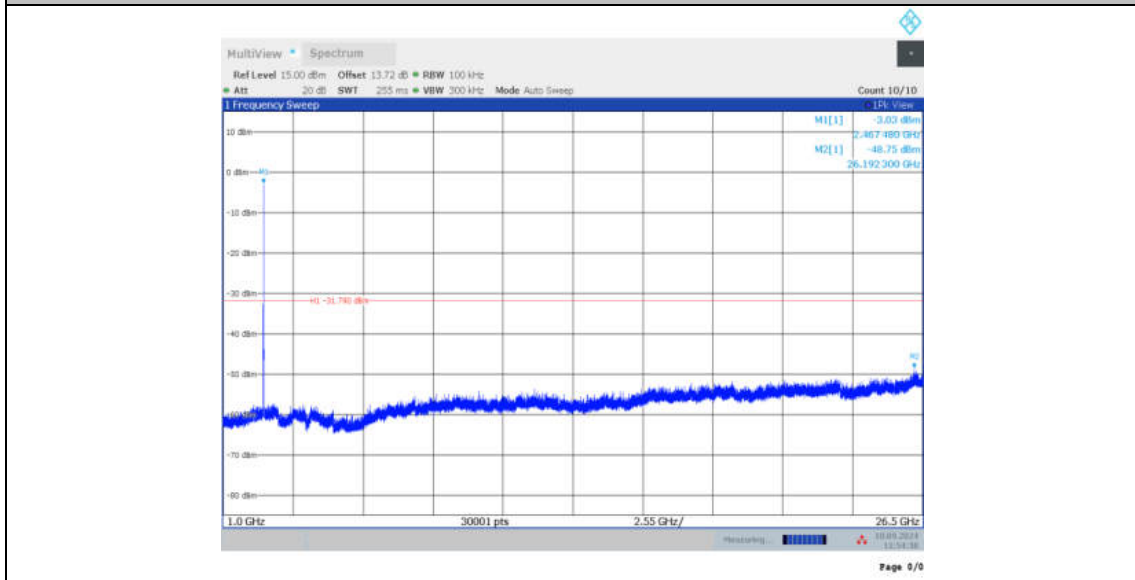
11BE20MIMO_Ant7_2462_52Tone_RU40_0~Reference



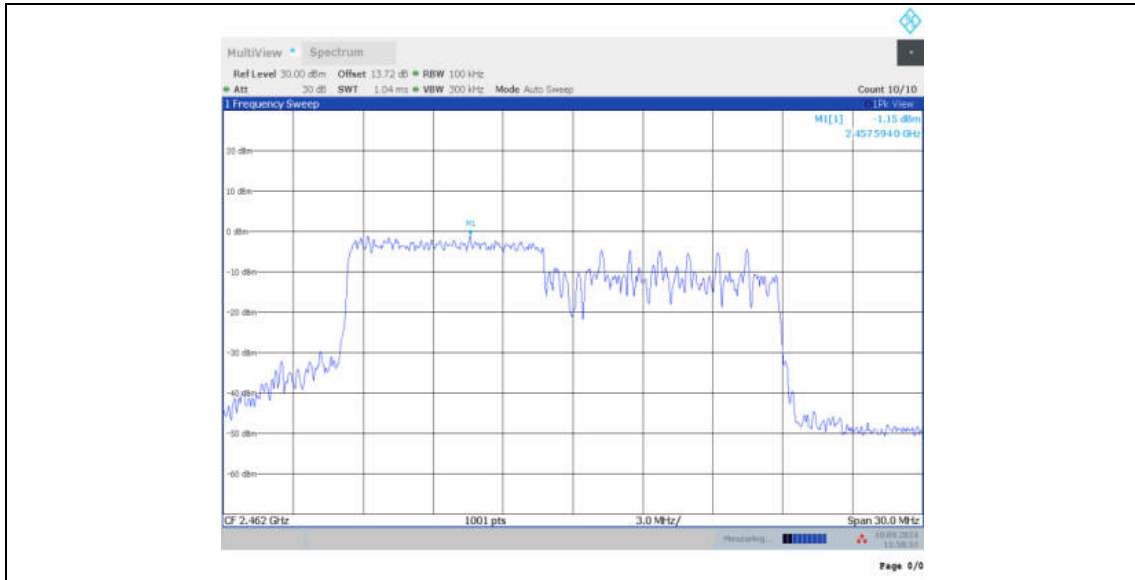
11BE20MIMO_Ant7_2462_52Tone_RU40_30~1000



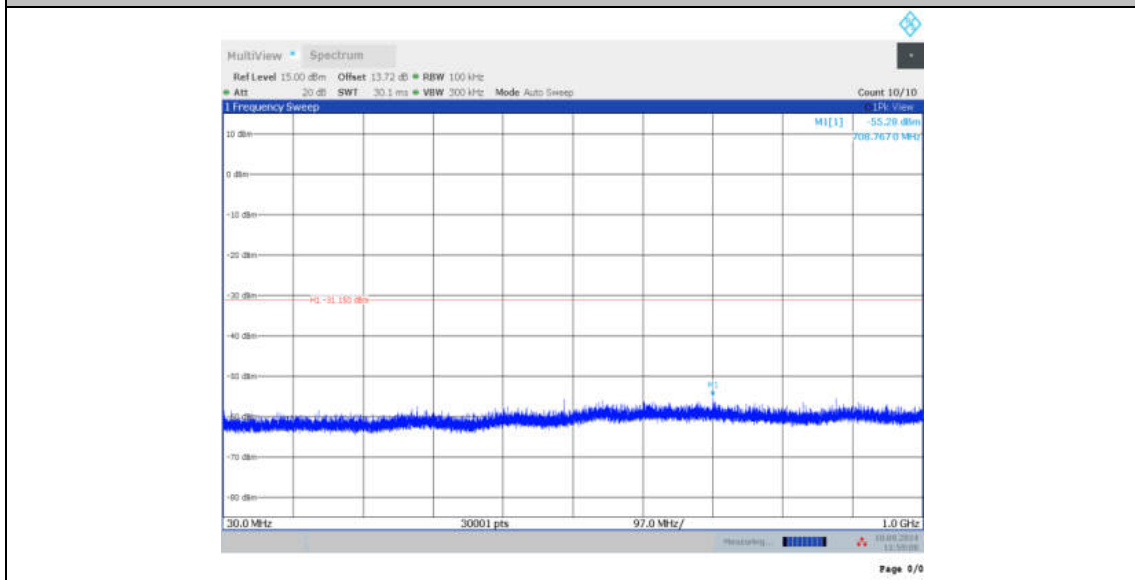
11BE20MIMO_Ant7_2462_52Tone_RU40_1000~26500



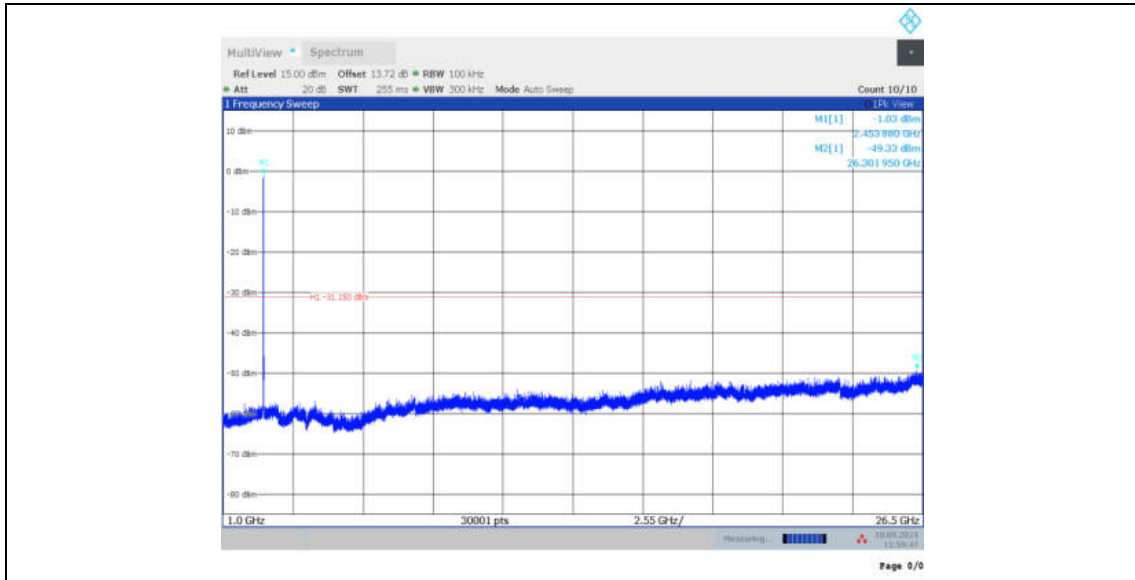
11BE20MIMO_Ant7_2462_106Tone_RU53_0~Reference



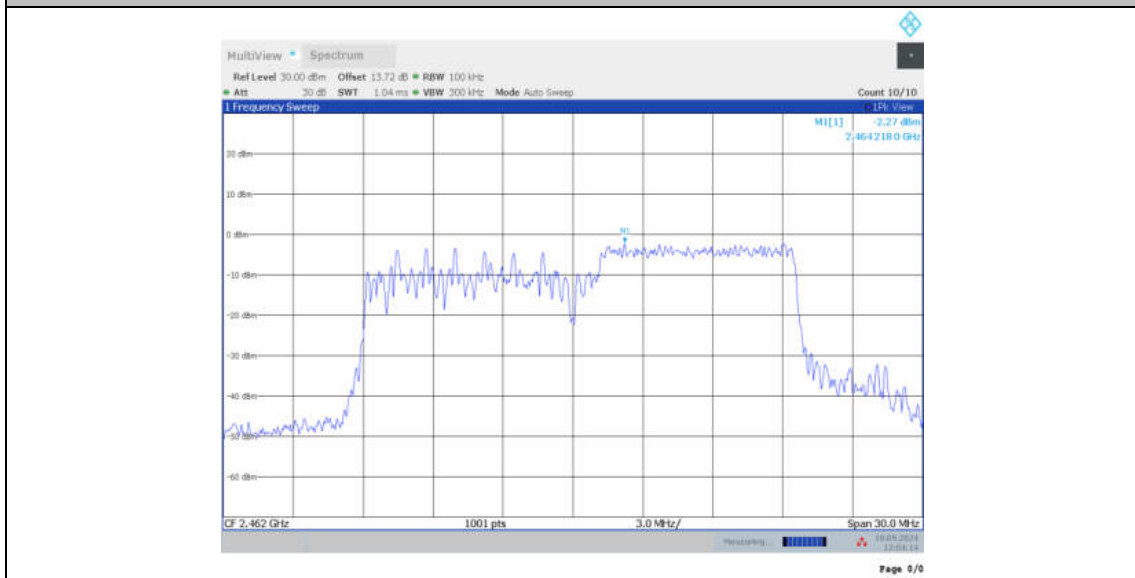
11BE20MIMO_Ant7_2462_106Tone_RU53_30~1000



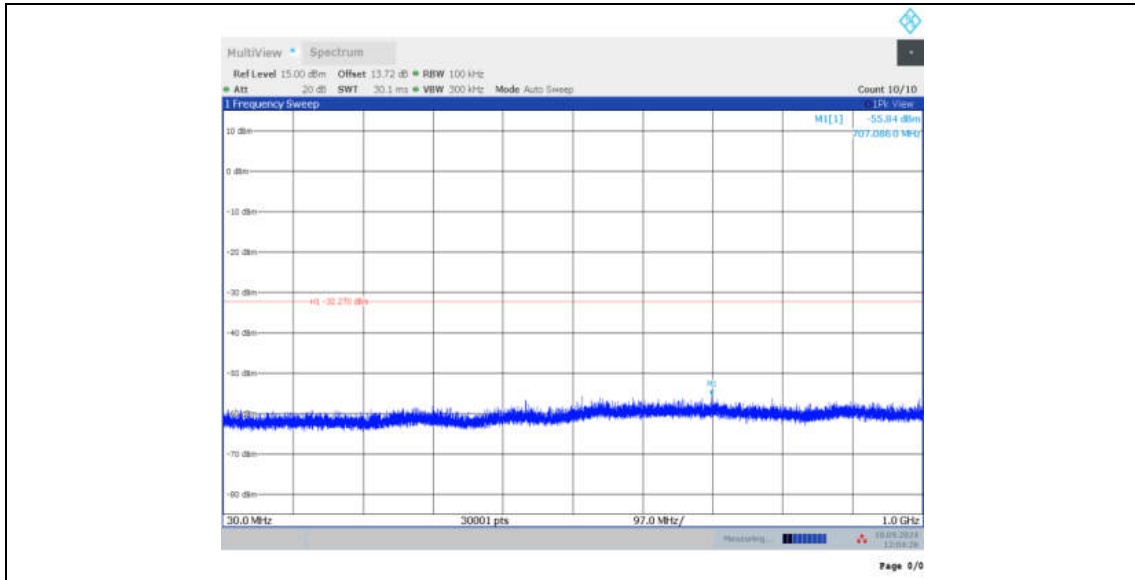
11BE20MIMO_Ant7_2462_106Tone_RU53_1000~26500



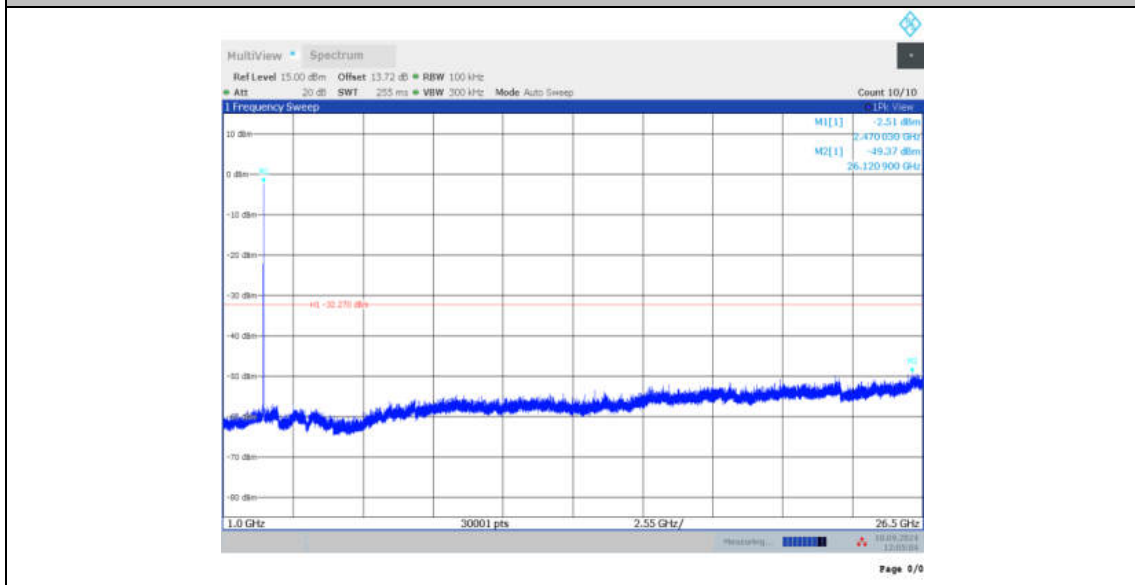
11BE20MIMO_Ant7_2462_106Tone_RU54_0~Reference



11BE20MIMO_Ant7_2462_106Tone_RU54_30~1000



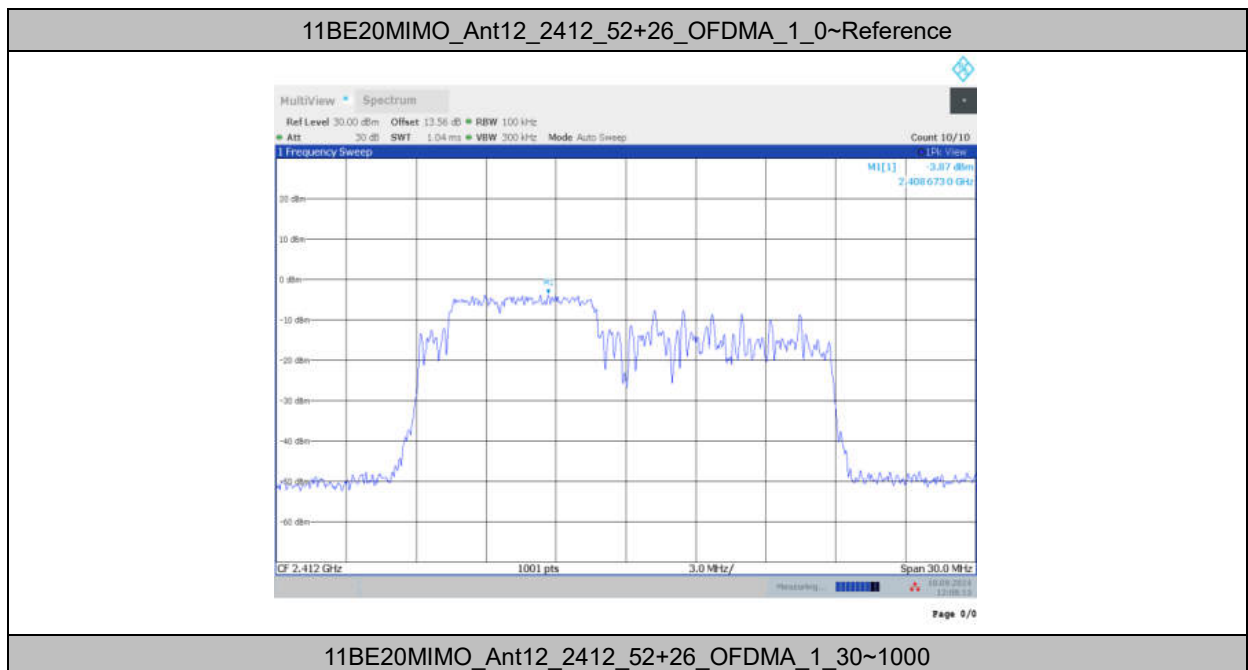
11BE20MIMO_Ant7_2462_106Tone_RU54_1000~26500

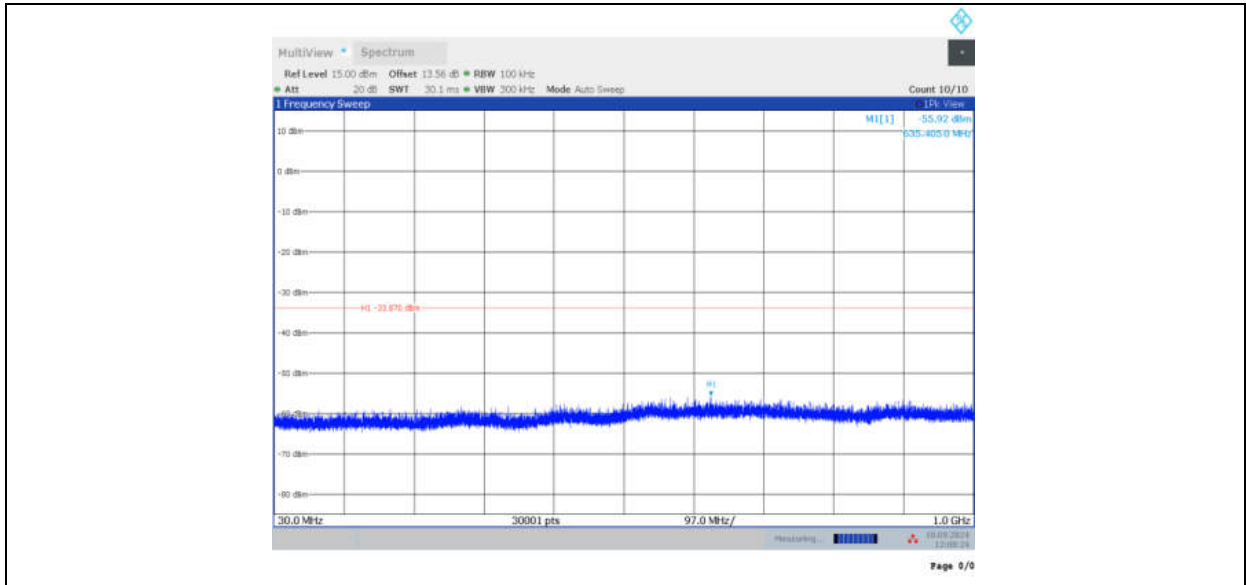

MRU Mode

TestMode	Antenna	Channel	Mru Type	Mru Index	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11BE20MIMO	Ant12	2412	52+26_OFDMA	1	Reference	-3.87	-3.87	---	PASS
				1	30~1000	-3.87	-55.92	≤-33.87	PASS
				1	1000~26500	-3.87	-48.83	≤-33.87	PASS
				2	Reference	-4.68	-4.68	---	PASS
				2	30~1000	-4.68	-55.66	≤-34.68	PASS
				2	1000~26500	-4.68	-48.79	≤-34.68	PASS
			106+2_6_OF	1	Reference	-0.33	-0.33	---	PASS
				1	30~1000	-0.33	-56.00	≤-30.33	PASS

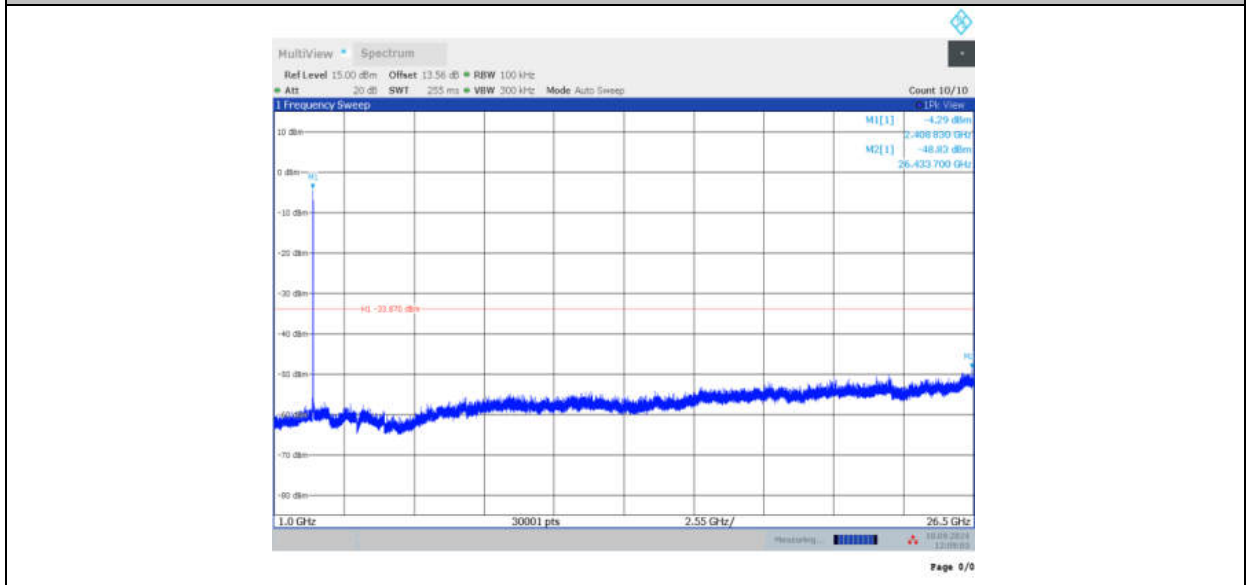
Ant7	2412	DMA	1	1000~26500	-0.33	-49.63	≤ -30.33	PASS	
			4	Reference	-1.24	-1.24	---	PASS	
			4	30~1000	-1.24	-55.34	≤ -31.24	PASS	
			4	1000~26500	-1.24	-50.04	≤ -31.24	PASS	
	Ant7	2412	52+26 _OFD MA	1	Reference	-2.82	-2.82	---	PASS
				1	30~1000	-2.82	-55.68	≤ -32.82	PASS
				1	1000~26500	-2.82	-48.65	≤ -32.82	PASS
				2	Reference	-3.30	-3.30	---	PASS
				2	30~1000	-3.30	-56.13	≤ -33.3	PASS
				2	1000~26500	-3.30	-49.33	≤ -33.3	PASS
			106+2 6_OF DMA	1	Reference	-0.91	-0.91	---	PASS
				1	30~1000	-0.91	-55.38	≤ -30.91	PASS
1				1000~26500	-0.91	-49.24	≤ -30.91	PASS	
4				Reference	-1.64	-1.64	---	PASS	
4				30~1000	-1.64	-55.87	≤ -31.64	PASS	
4				1000~26500	-1.64	-49.33	≤ -31.64	PASS	
Ant12	2437	52+26 _OFD MA	1	Reference	-3.70	-3.70	---	PASS	
			1	30~1000	-3.70	-55.37	≤ -33.7	PASS	
			1	1000~26500	-3.70	-49.50	≤ -33.7	PASS	
			2	Reference	-3.87	-3.87	---	PASS	
			2	30~1000	-3.87	-55.84	≤ -33.87	PASS	
			2	1000~26500	-3.87	-49.57	≤ -33.87	PASS	
		106+2 6_OF DMA	1	Reference	-1.29	-1.29	---	PASS	
			1	30~1000	-1.29	-56.07	≤ -31.29	PASS	
			1	1000~26500	-1.29	-48.81	≤ -31.29	PASS	
			4	Reference	-1.01	-1.01	---	PASS	
			4	30~1000	-1.01	-55.94	≤ -31.01	PASS	
			4	1000~26500	-1.01	-48.66	≤ -31.01	PASS	
Ant7	2437	52+26 _OFD MA	1	Reference	-2.41	-2.41	---	PASS	
			1	30~1000	-2.41	-55.96	≤ -32.41	PASS	
			1	1000~26500	-2.41	-49.55	≤ -32.41	PASS	
			2	Reference	-2.66	-2.66	---	PASS	
			2	30~1000	-2.66	-56.33	≤ -32.66	PASS	
			2	1000~26500	-2.66	-49.41	≤ -32.66	PASS	
		106+2 6_OF DMA	1	Reference	-0.76	-0.76	---	PASS	
			1	30~1000	-0.76	-55.83	≤ -30.76	PASS	
			1	1000~26500	-0.76	-49.63	≤ -30.76	PASS	
			4	Reference	-1.20	-1.20	---	PASS	
			4	30~1000	-1.20	-55.95	≤ -31.2	PASS	
			4	1000~26500	-1.20	-48.82	≤ -31.2	PASS	
Ant12	2462	52+26 _OFD	1	Reference	-3.96	-3.96	---	PASS	
			1	30~1000	-3.96	-55.62	≤ -33.96	PASS	

Ant7	2462	MA	1	1000~26500	-3.96	-48.81	≤-33.96	PASS	
			2	Reference	-4.92	-4.92	---	PASS	
			2	30~1000	-4.92	-55.92	≤-34.92	PASS	
			2	1000~26500	-4.92	-49.33	≤-34.92	PASS	
		106+2 6_OF DMA	1	Reference	-1.54	-1.54	---	PASS	
			1	30~1000	-1.54	-56.02	≤-31.54	PASS	
			1	1000~26500	-1.54	-49.47	≤-31.54	PASS	
			4	Reference	-1.77	-1.77	---	PASS	
			4	30~1000	-1.77	-55.93	≤-31.77	PASS	
			4	1000~26500	-1.77	-49.42	≤-31.77	PASS	
			52+26 _OFD MA	1	Reference	-3.24	-3.24	---	PASS
				1	30~1000	-3.24	-55.31	≤-33.24	PASS
		1		1000~26500	-3.24	-48.71	≤-33.24	PASS	
		2		Reference	-3.69	-3.69	---	PASS	
		2		30~1000	-3.69	-56.07	≤-33.69	PASS	
		2		1000~26500	-3.69	-49.42	≤-33.69	PASS	
		106+2 6_OF DMA	1	Reference	-1.92	-1.92	---	PASS	
			1	30~1000	-1.92	-56.15	≤-31.92	PASS	
1	1000~26500		-1.92	-49.29	≤-31.92	PASS			
4	Reference		-2.76	-2.76	---	PASS			
4	30~1000		-2.76	-55.76	≤-32.76	PASS			
4	1000~26500		-2.76	-49.20	≤-32.76	PASS			

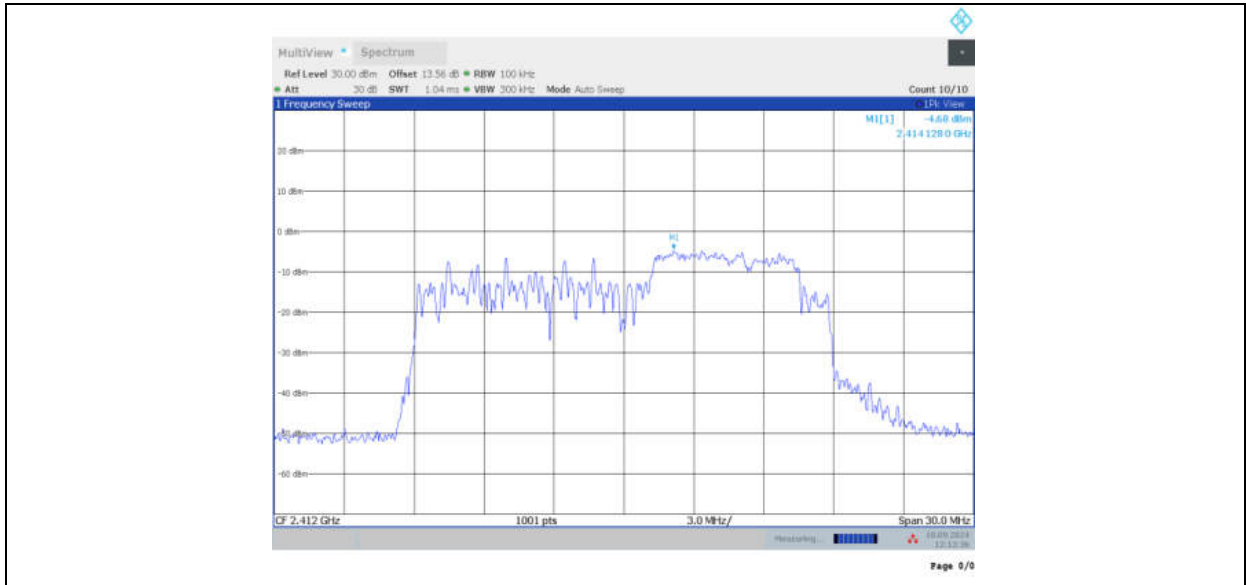




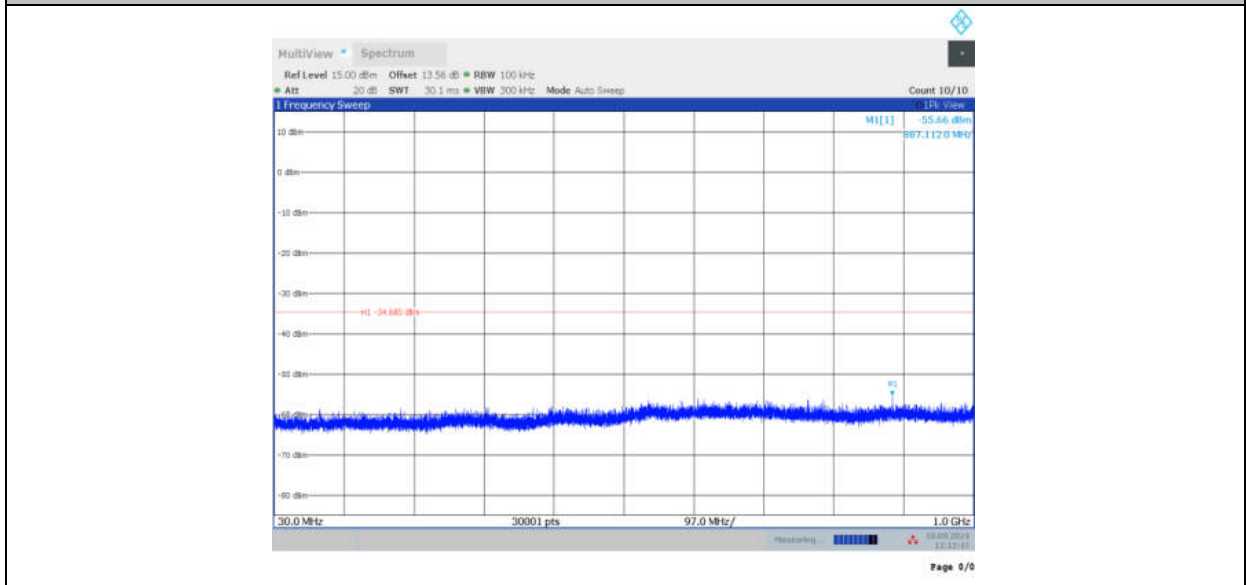
11BE20MIMO_Ant12_2412_52+26_OFDMA_1_1000~26500



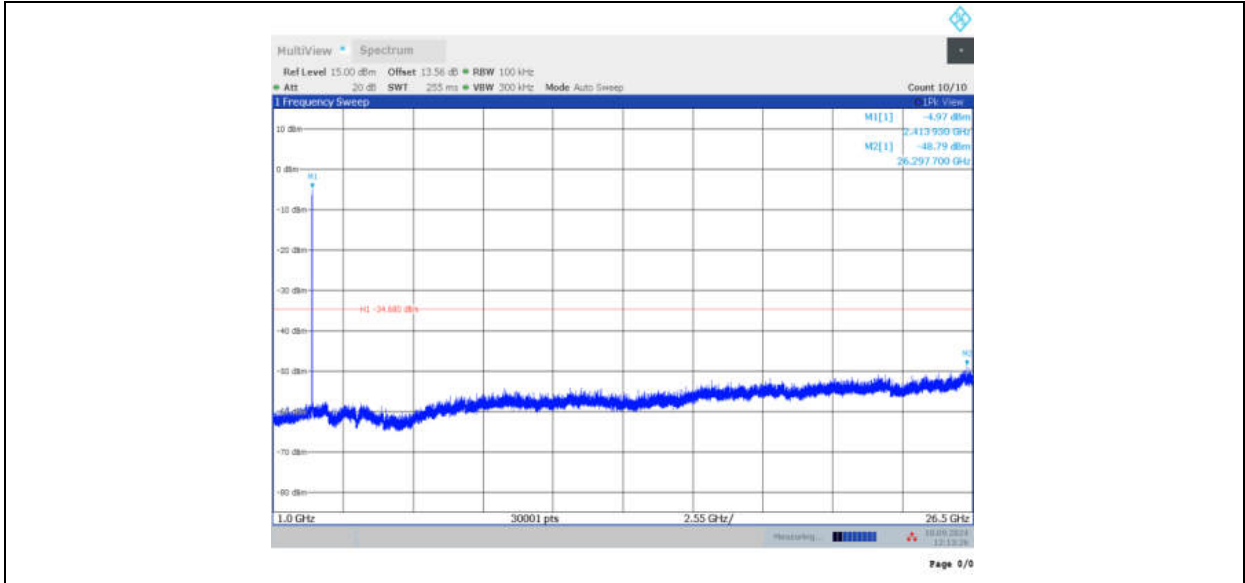
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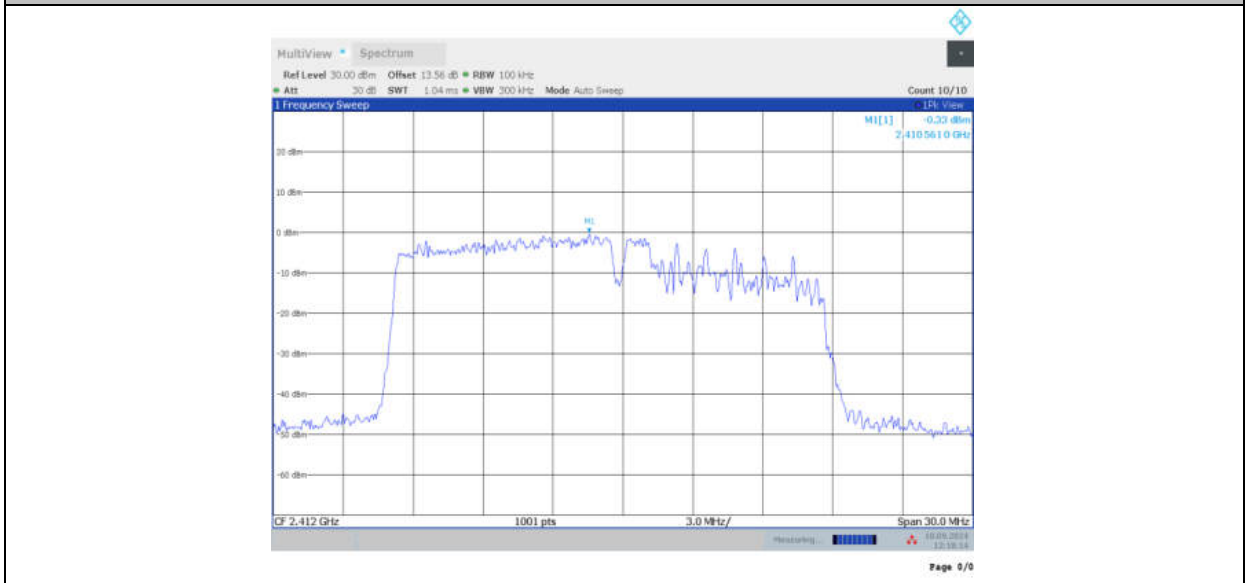
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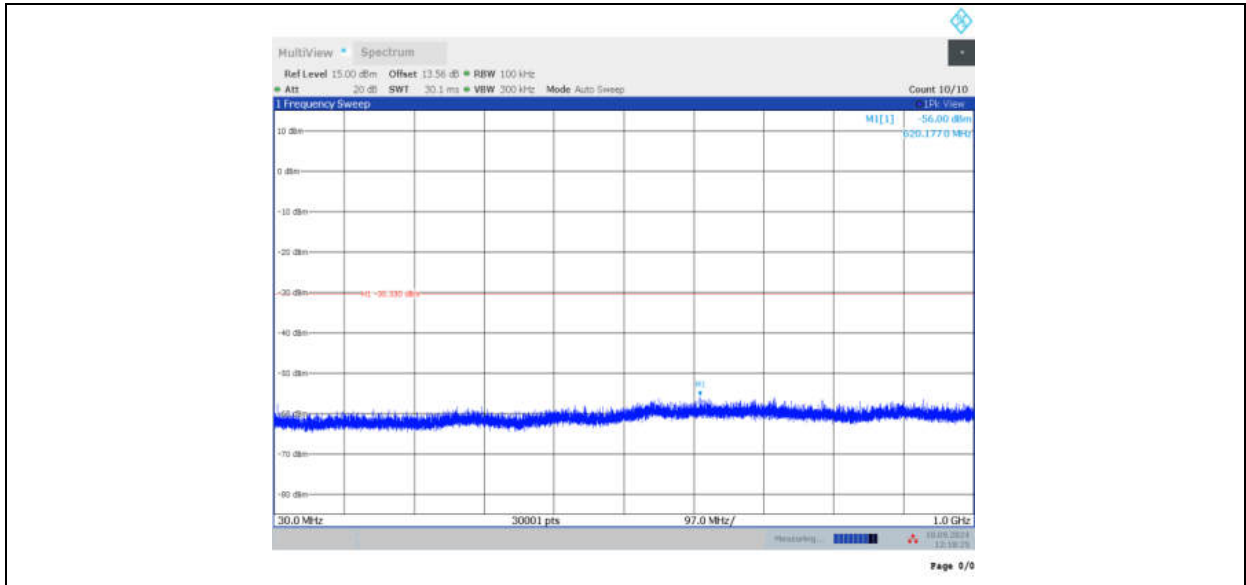
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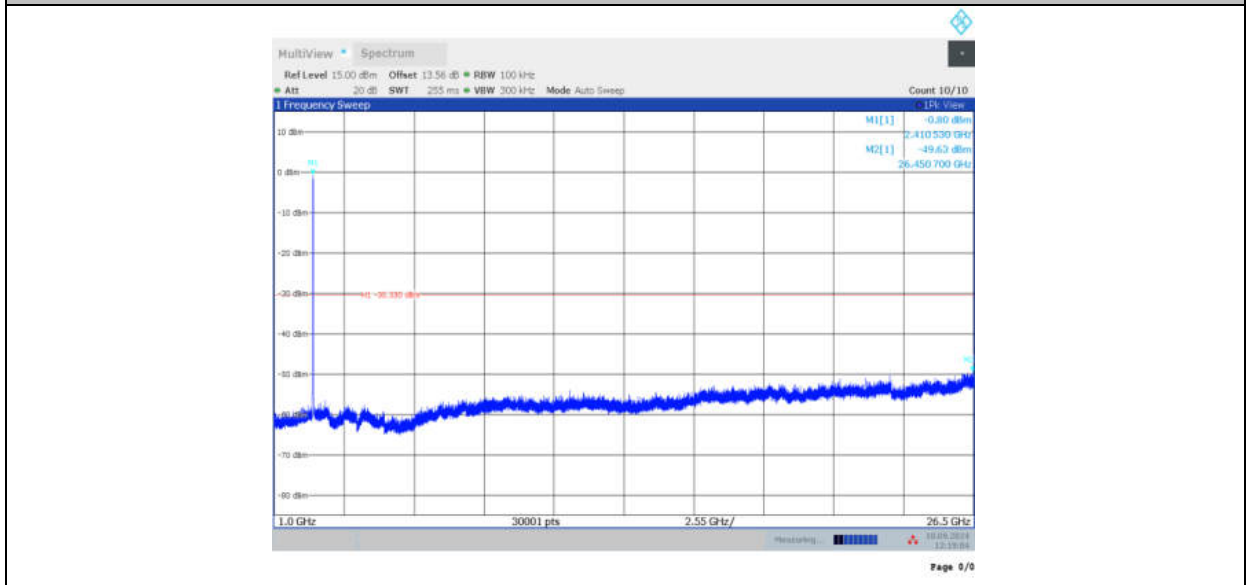
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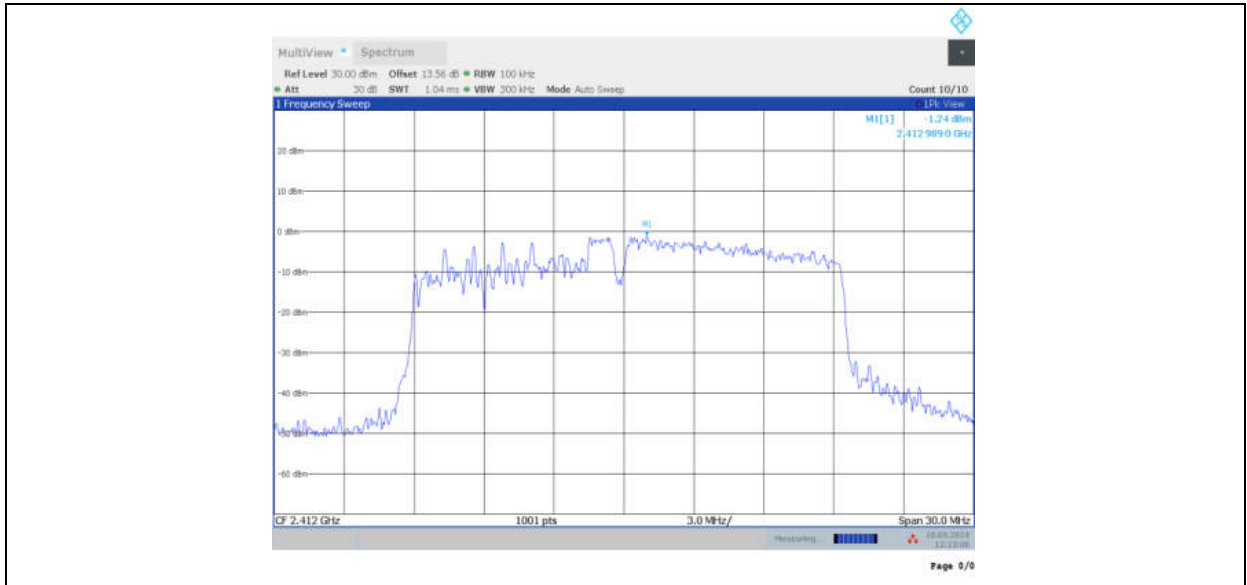
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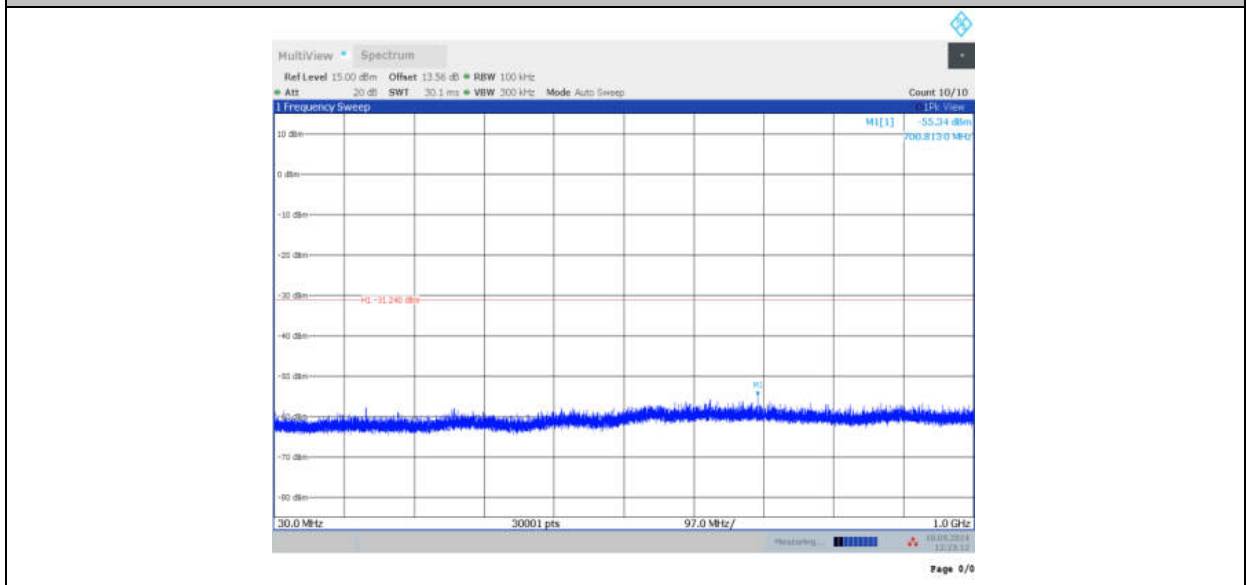
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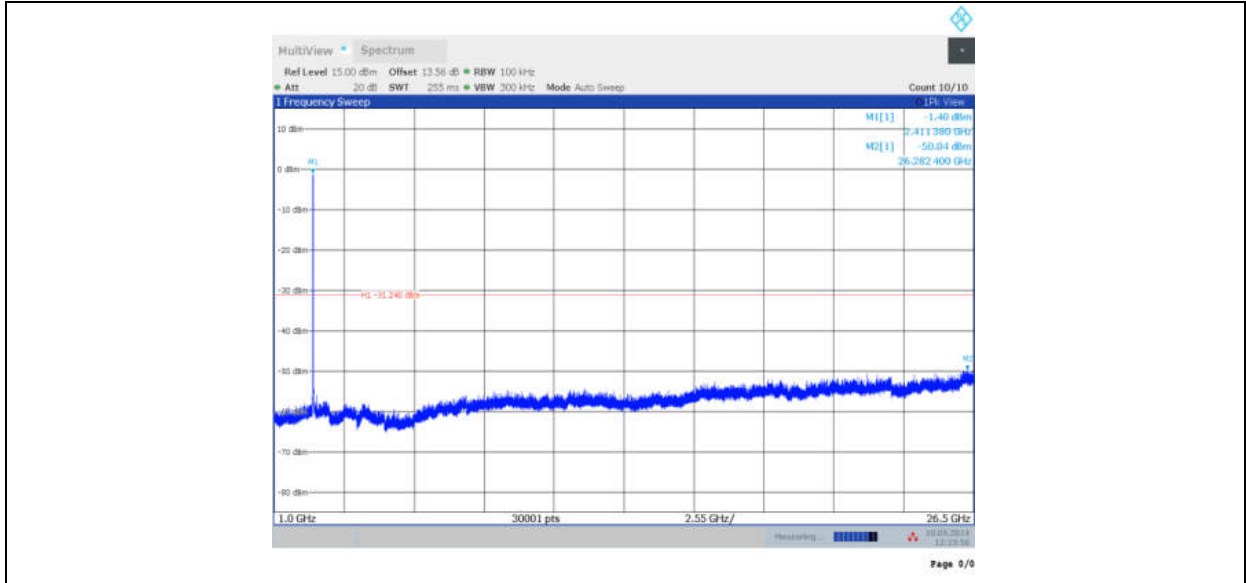
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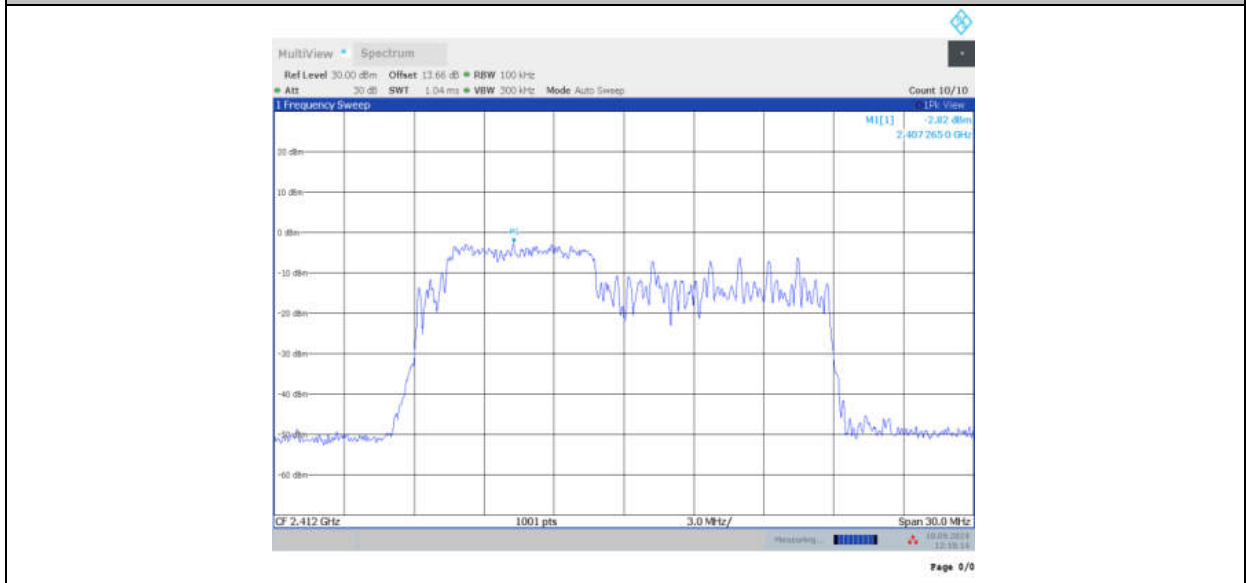
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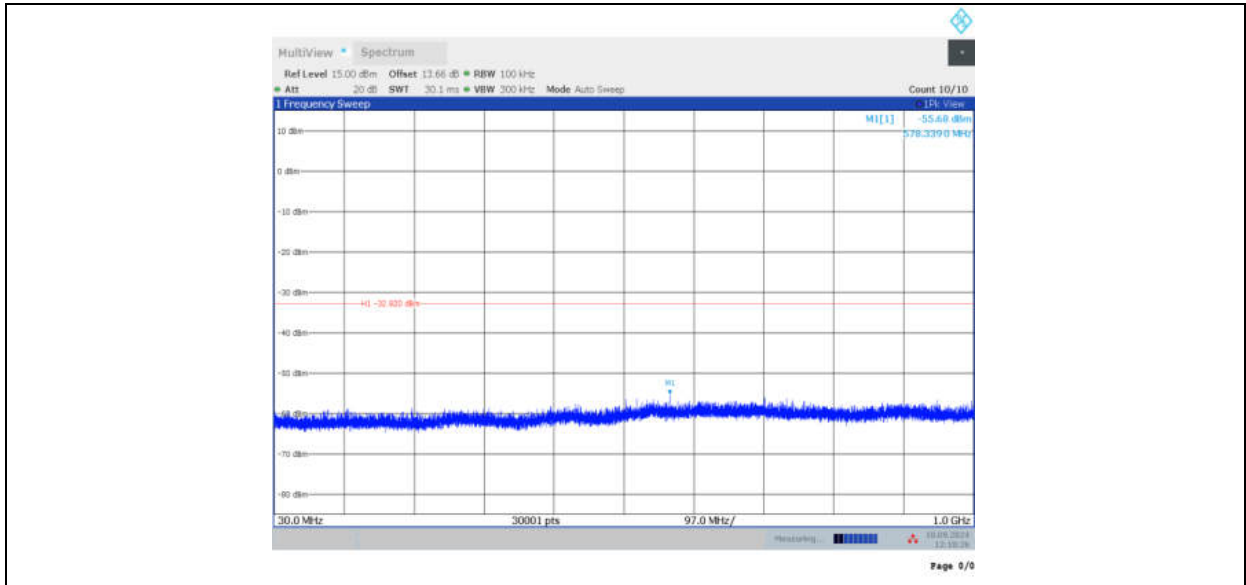
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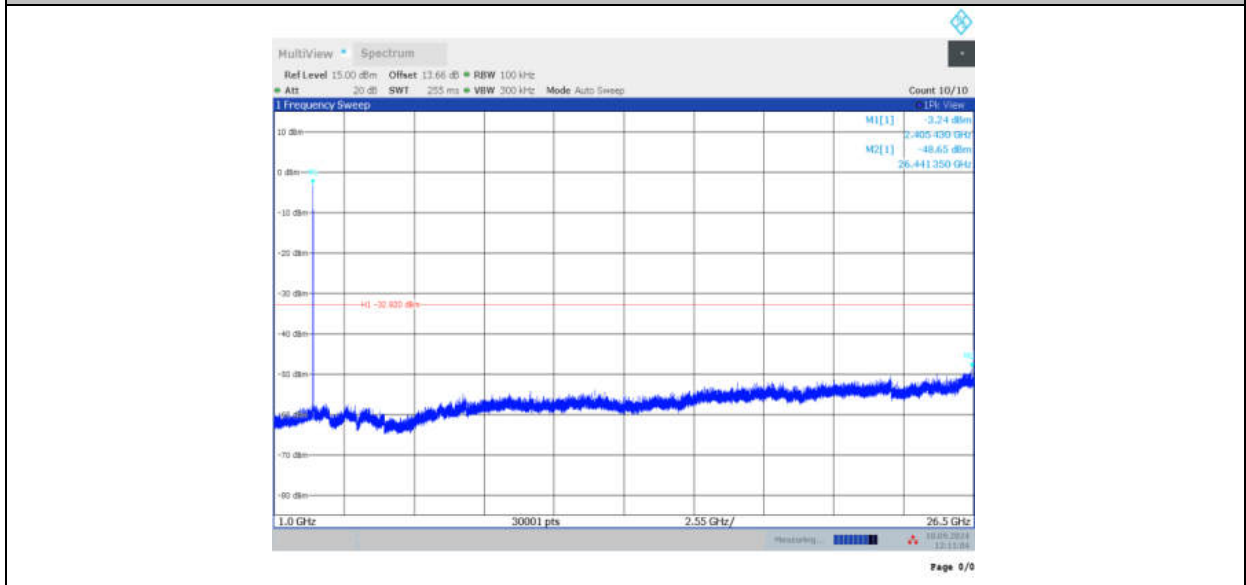
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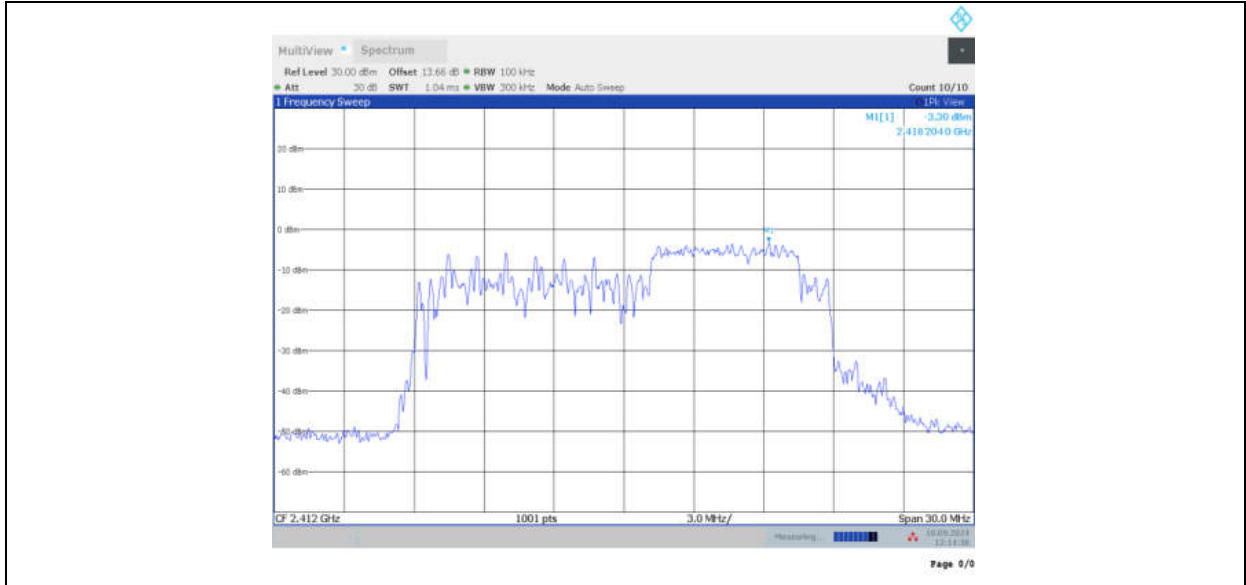
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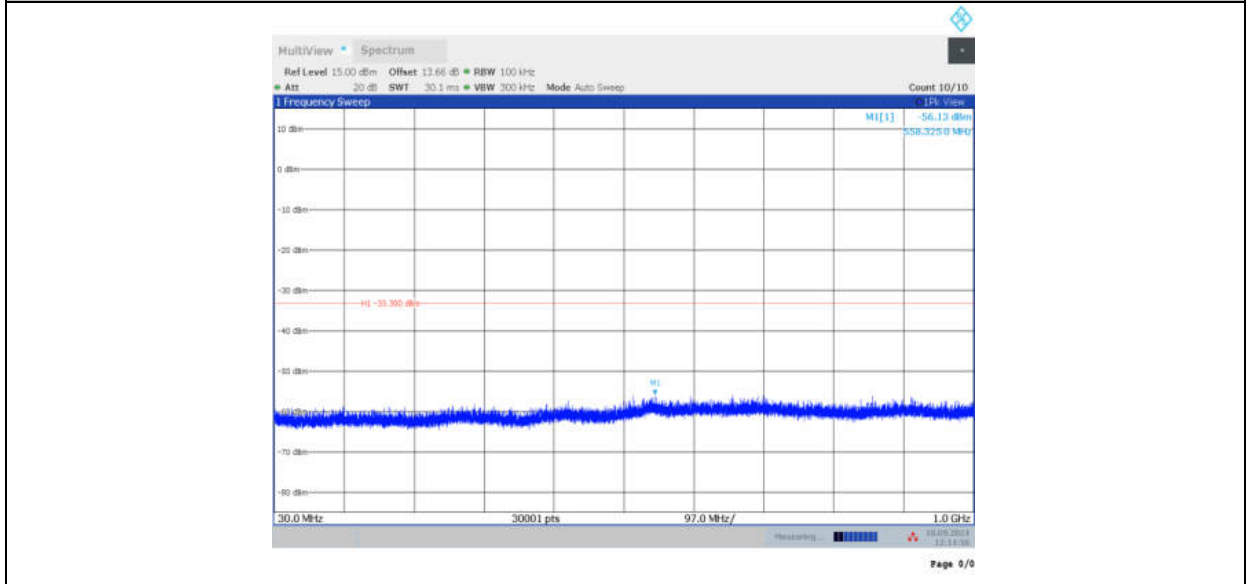
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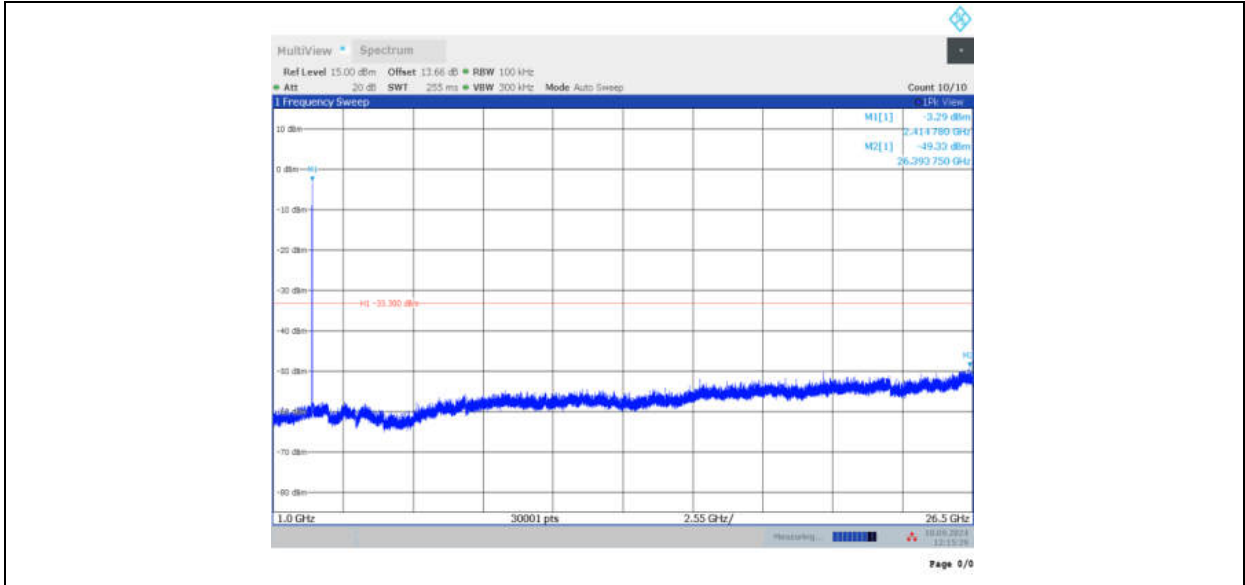
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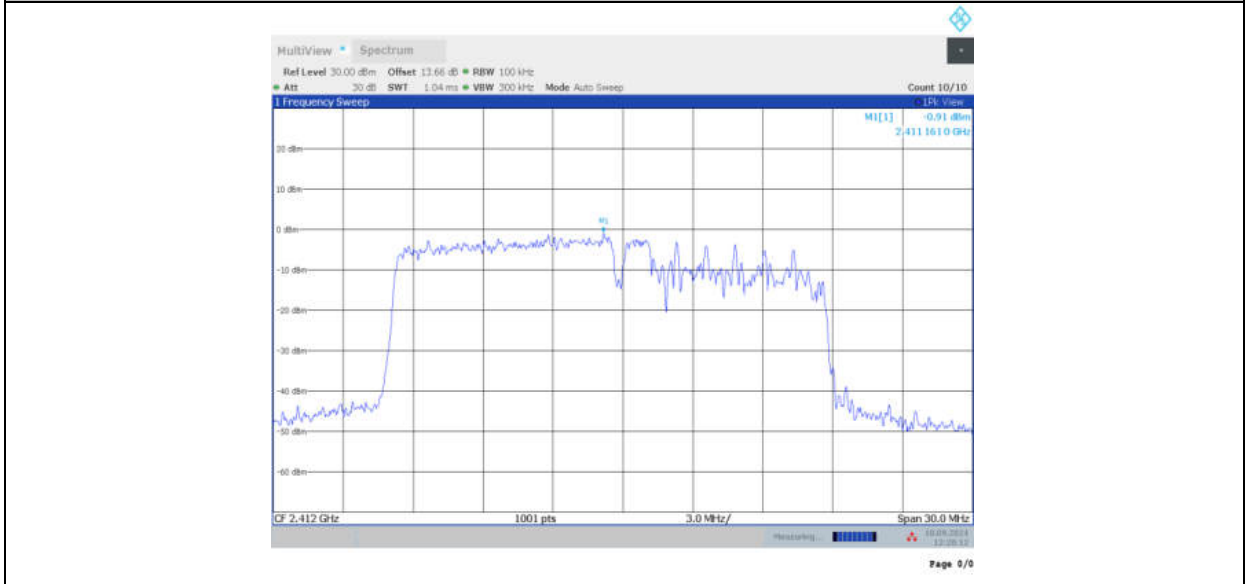
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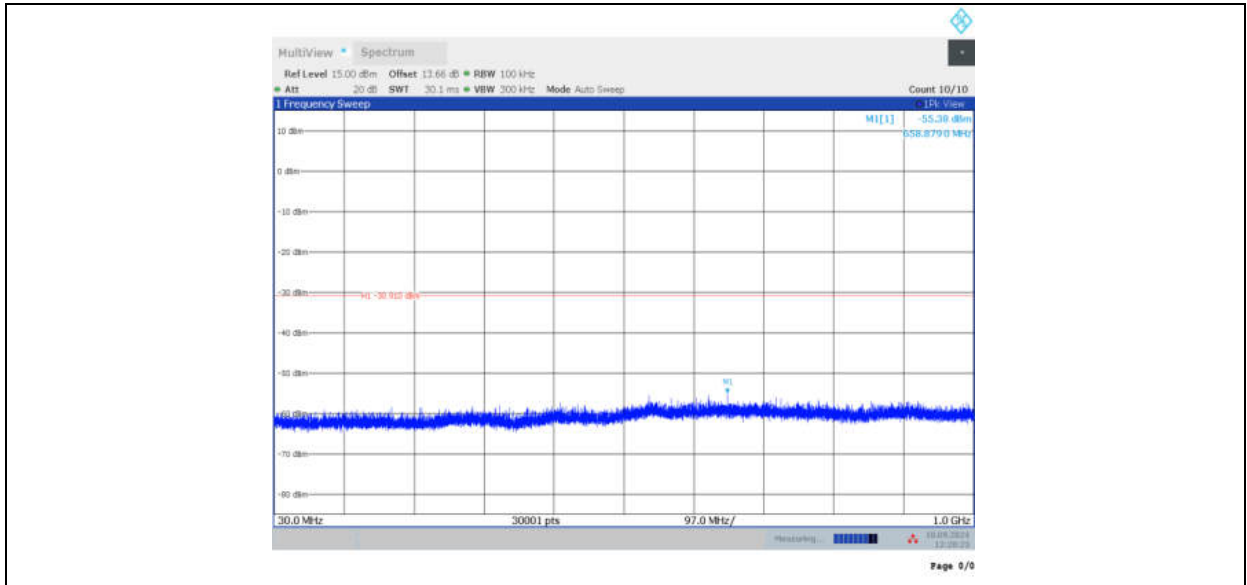
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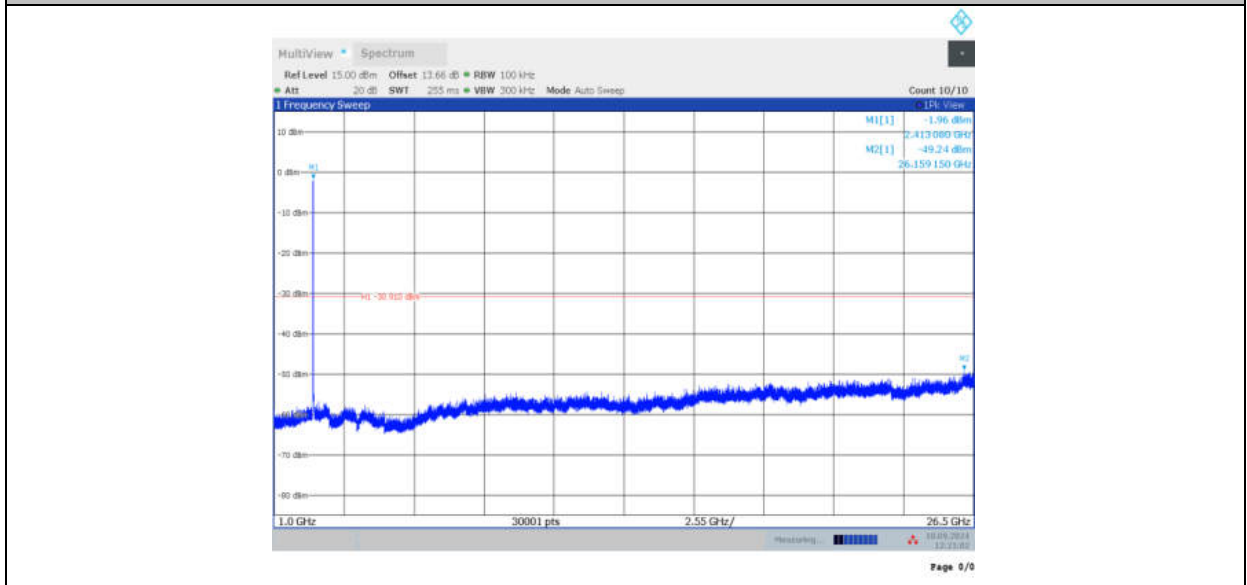
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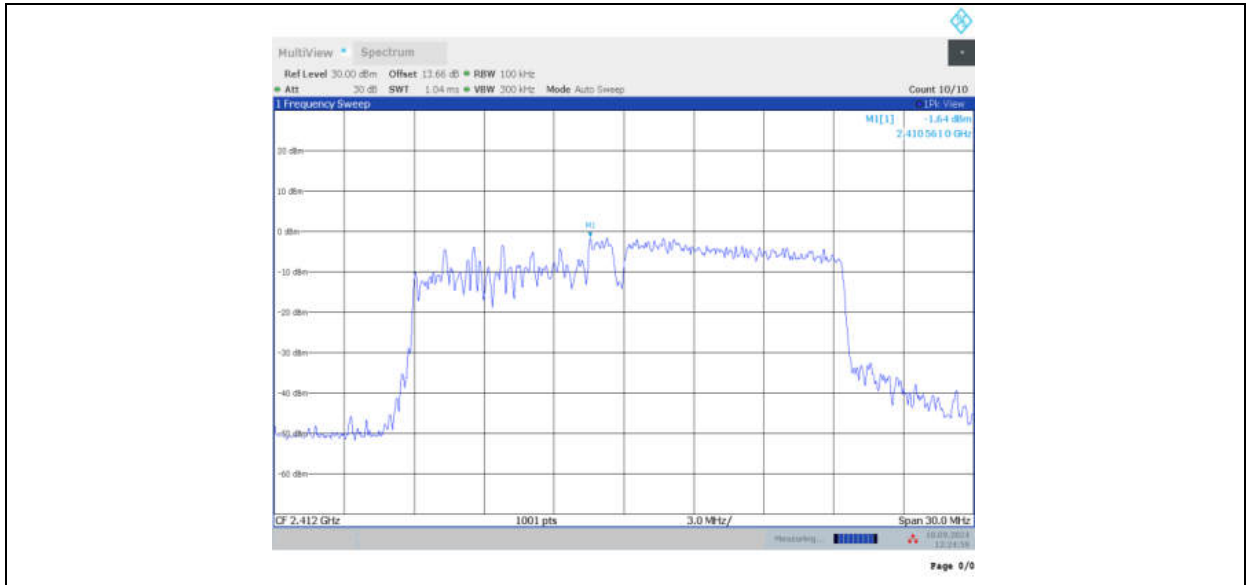
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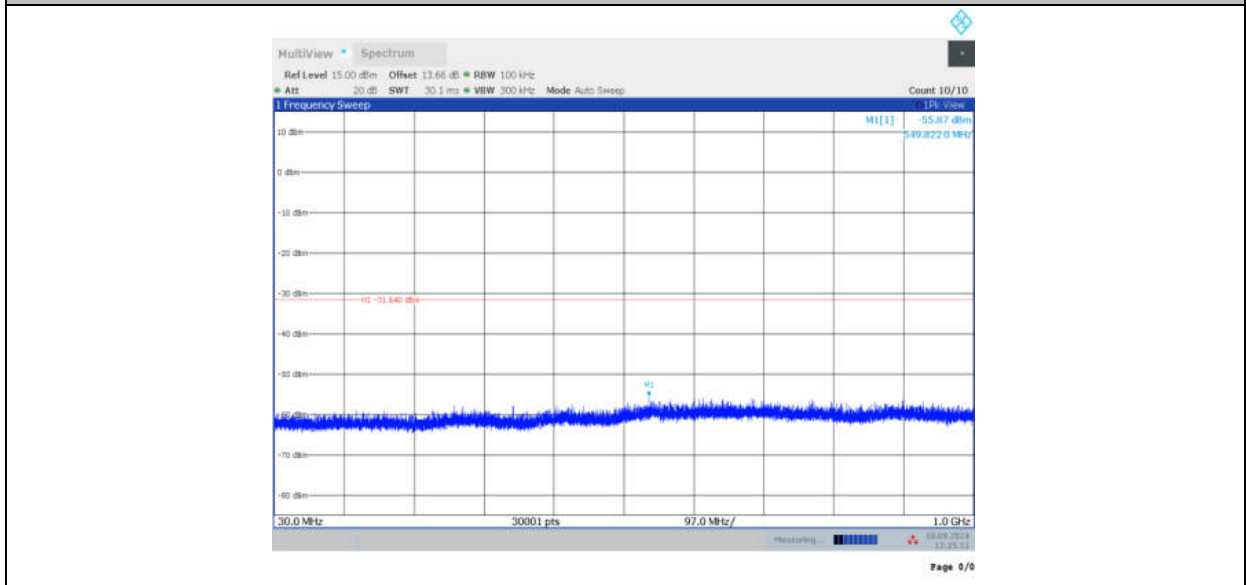
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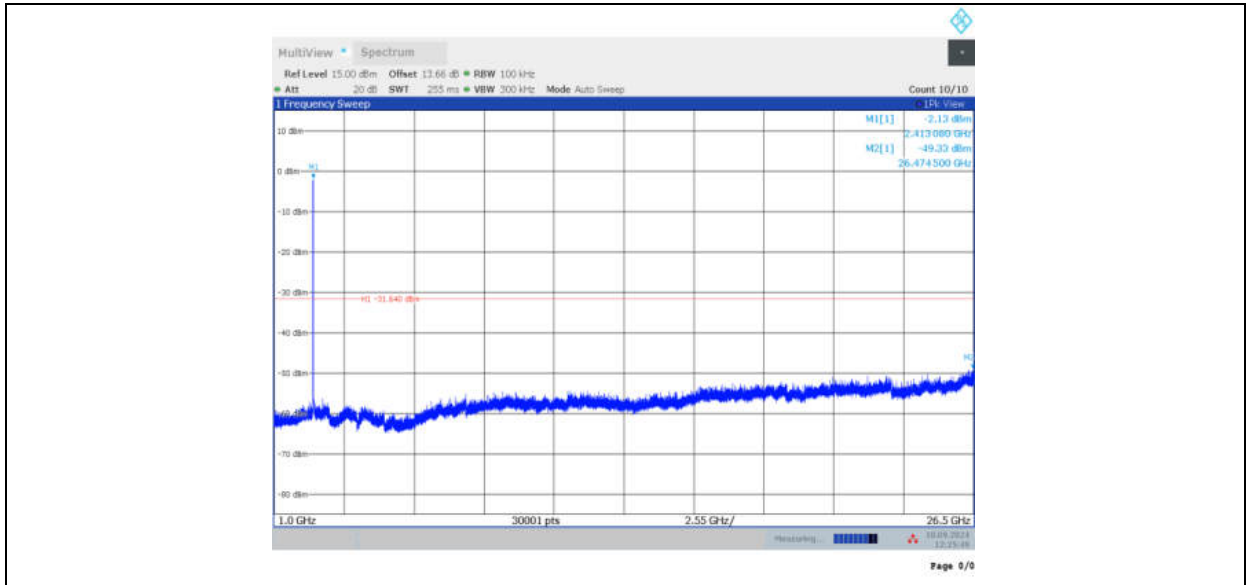
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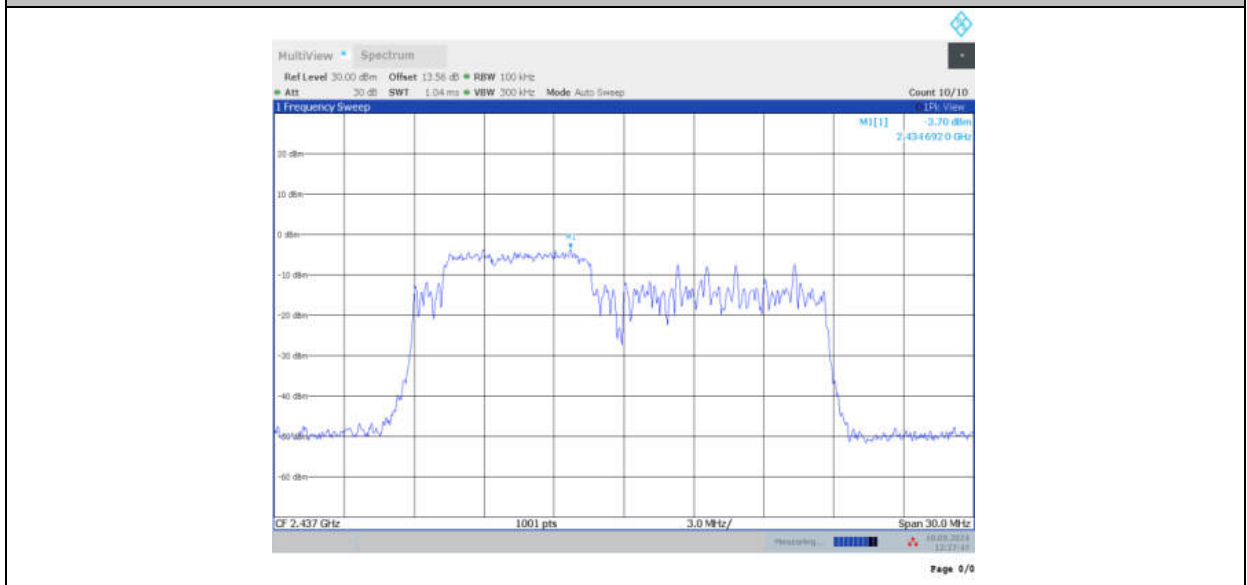
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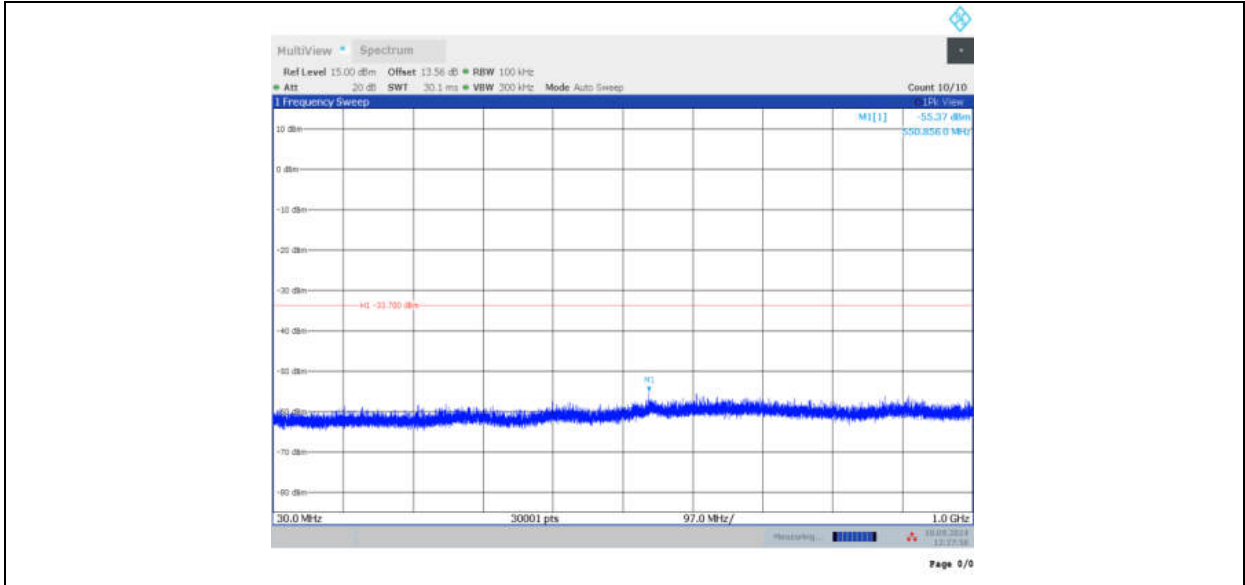
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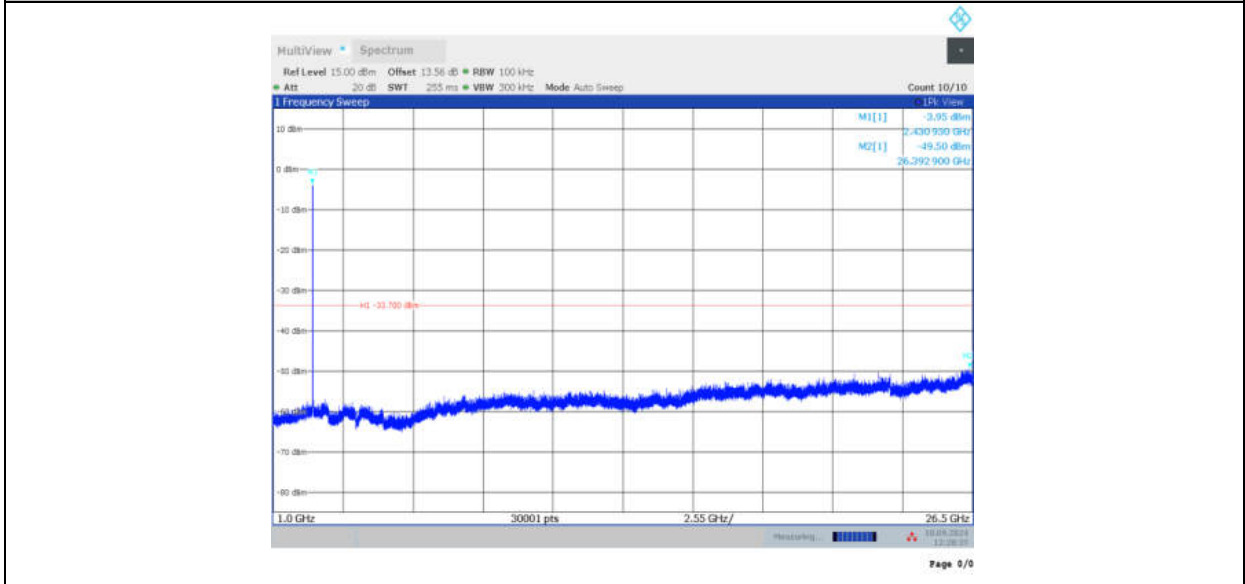
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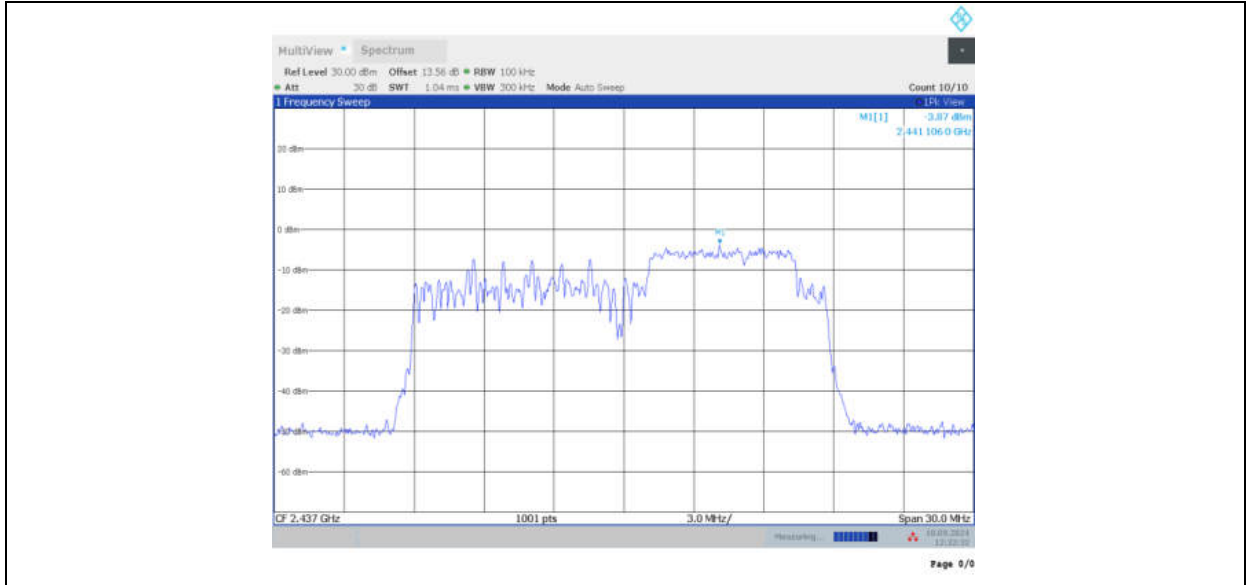
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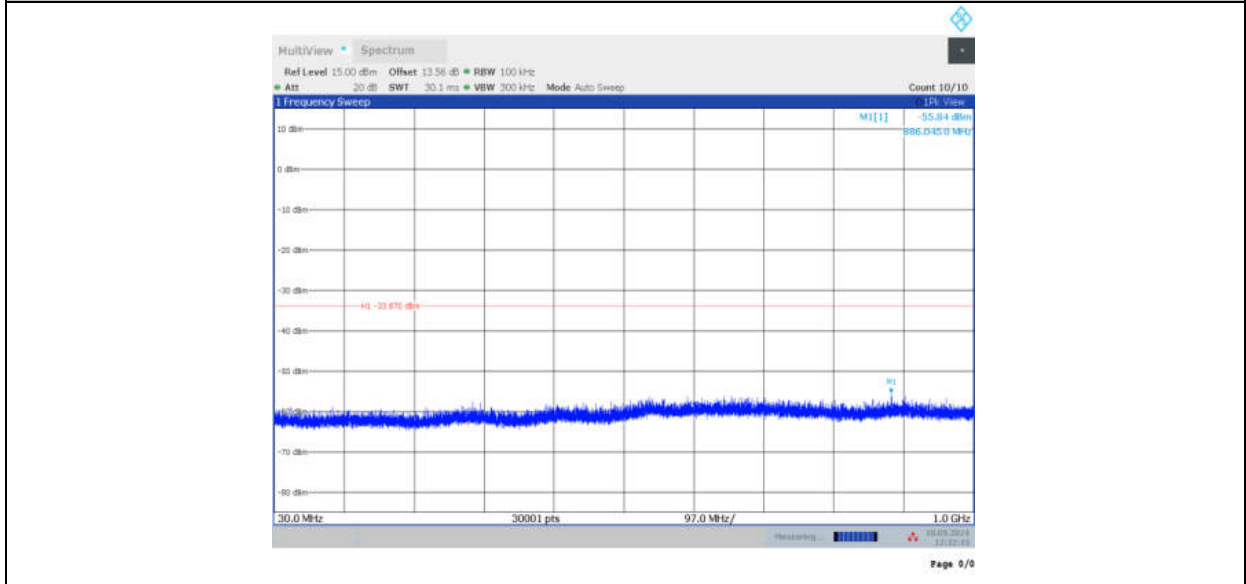
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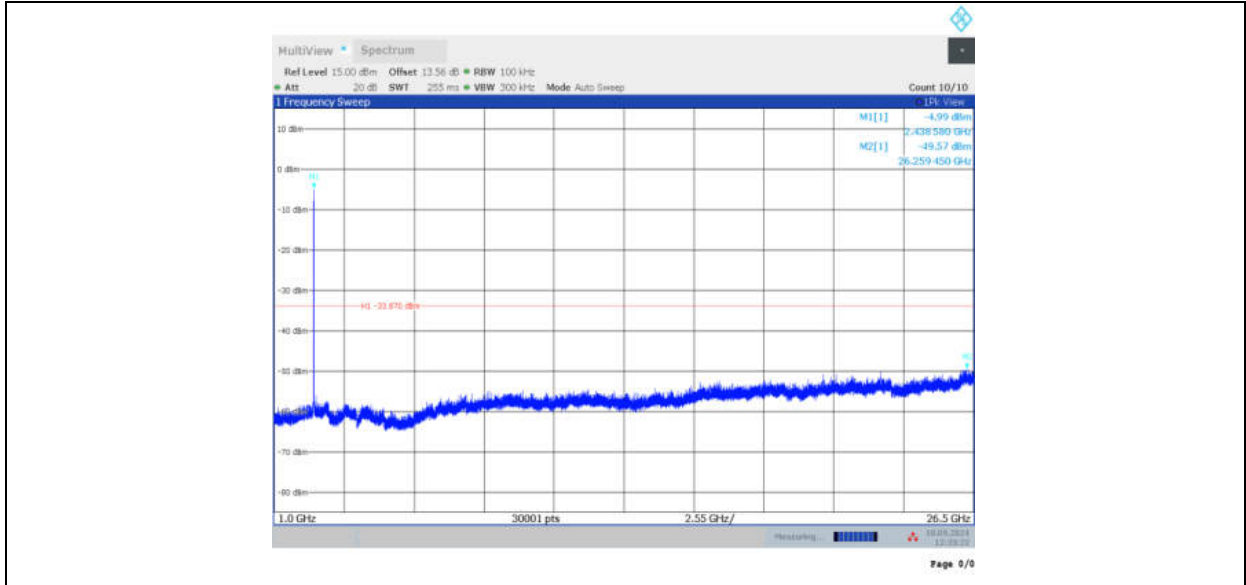
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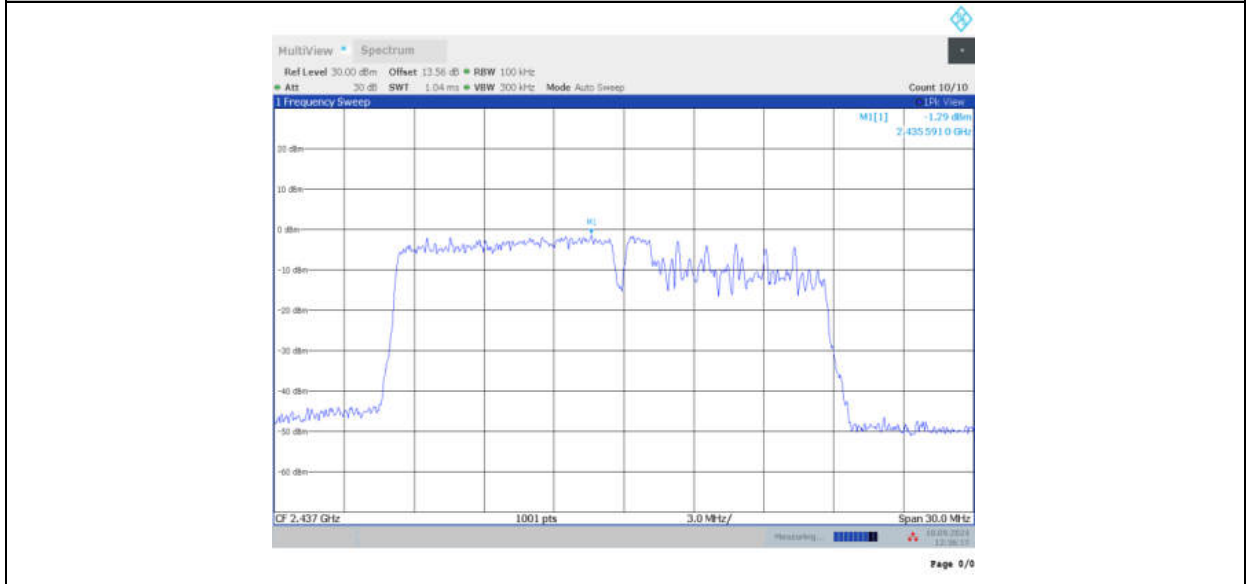
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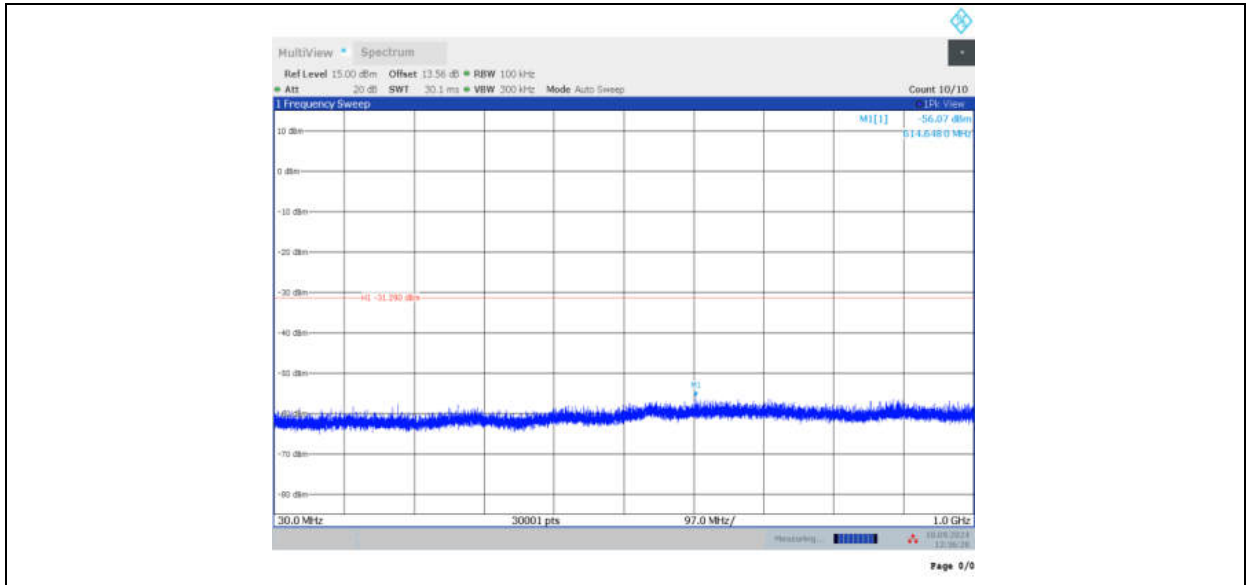
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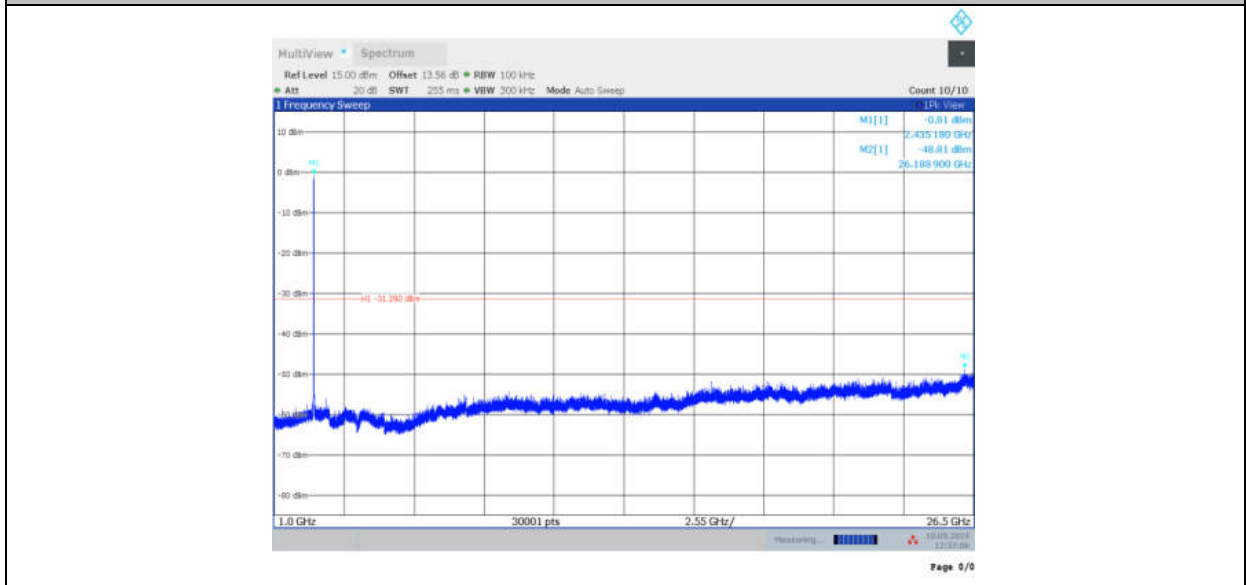
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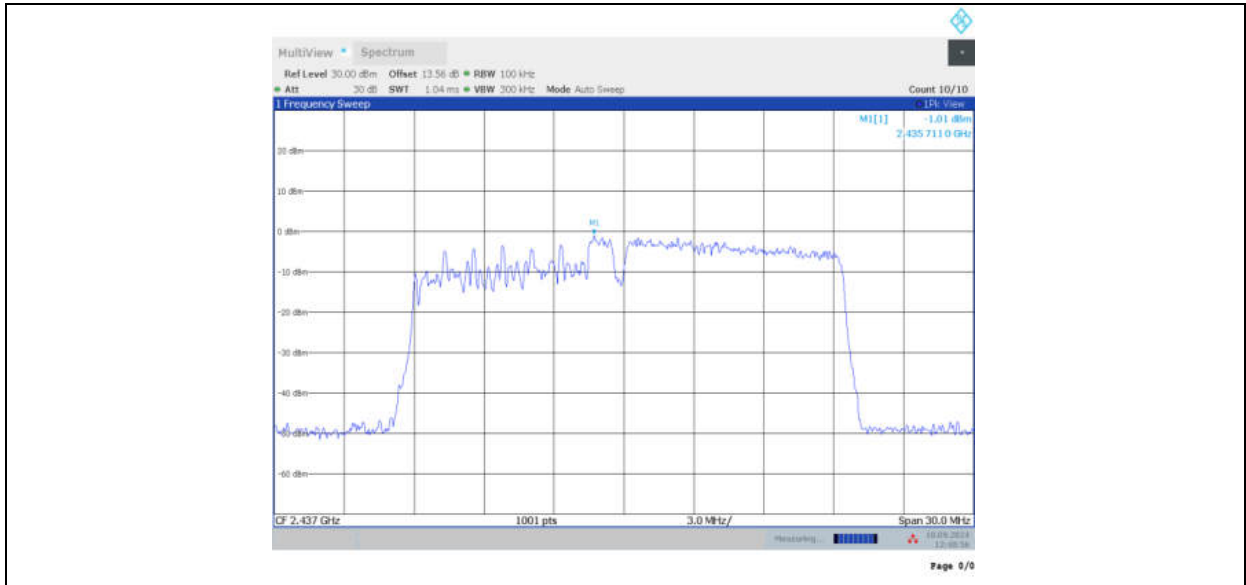
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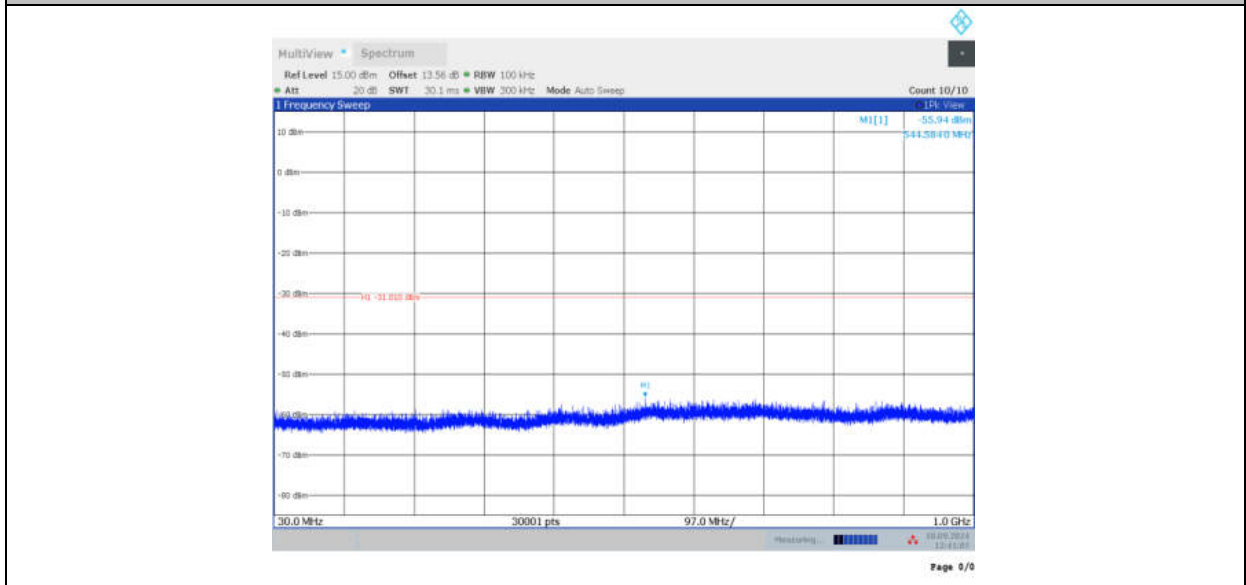
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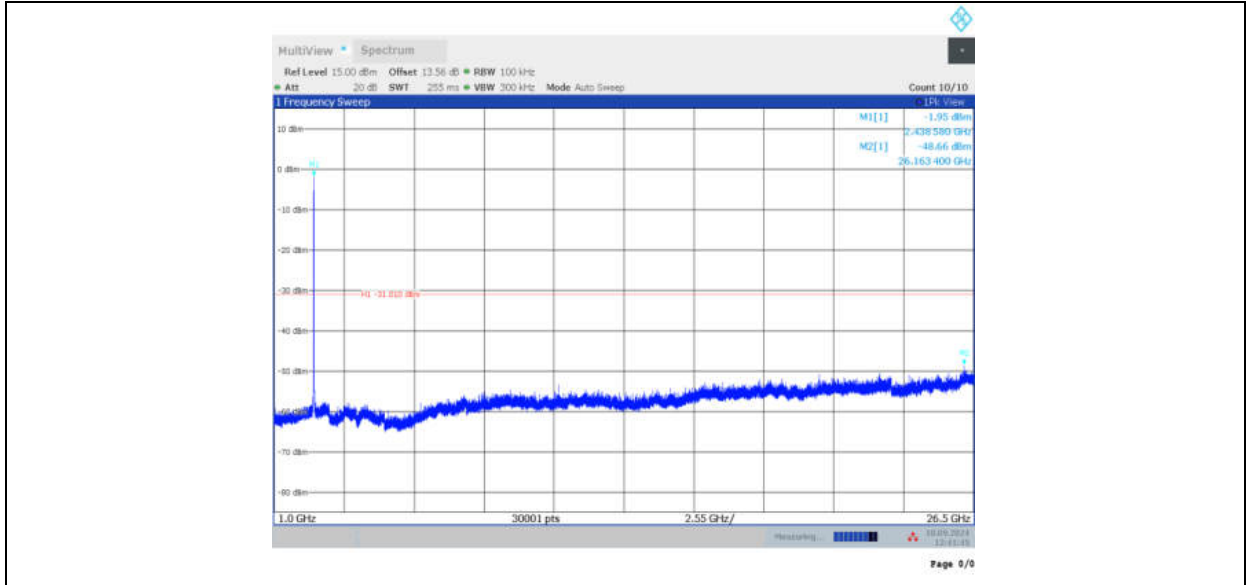
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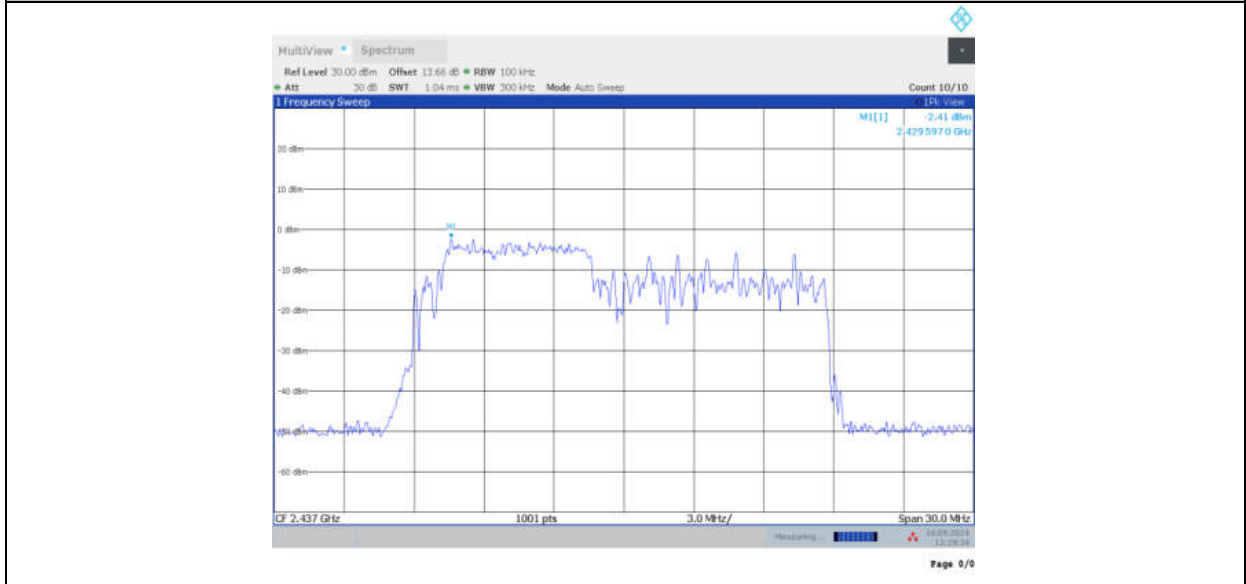
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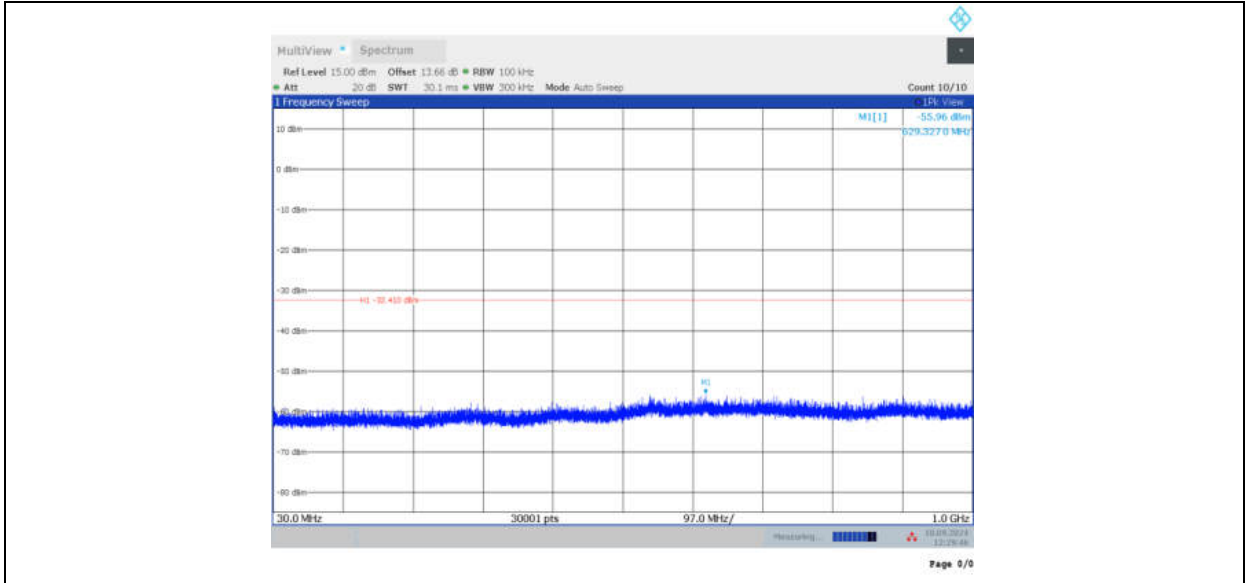
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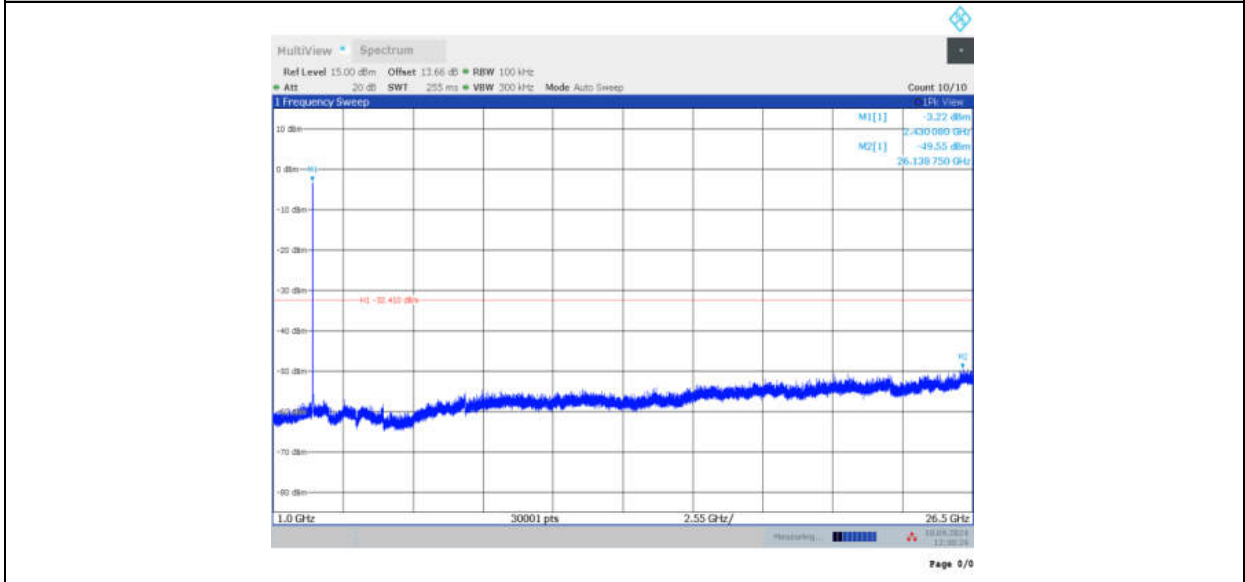
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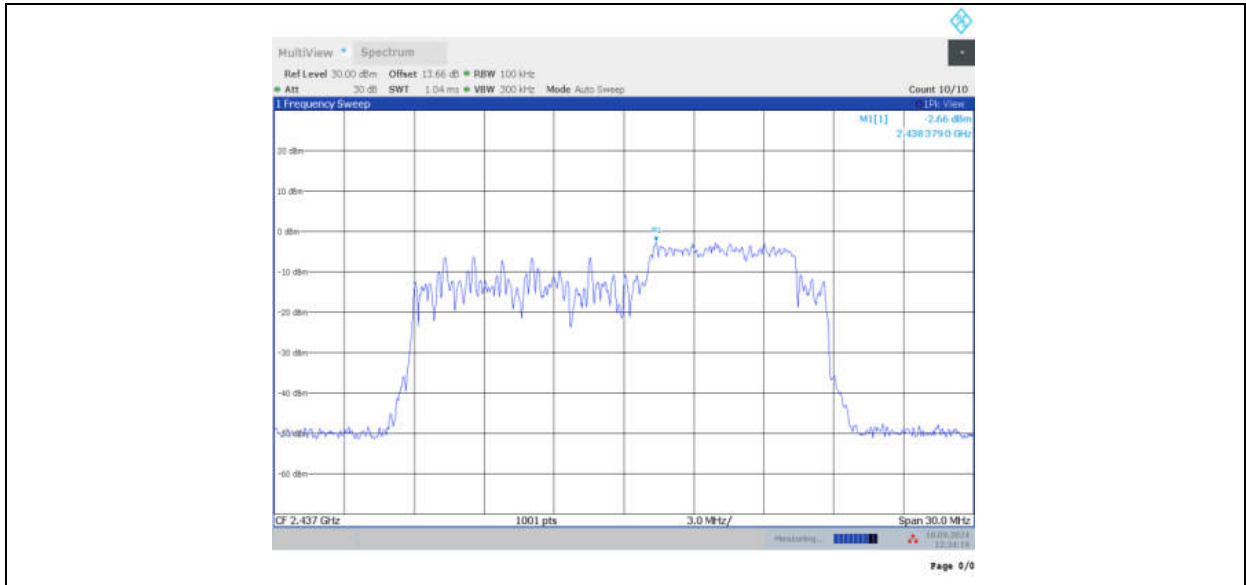
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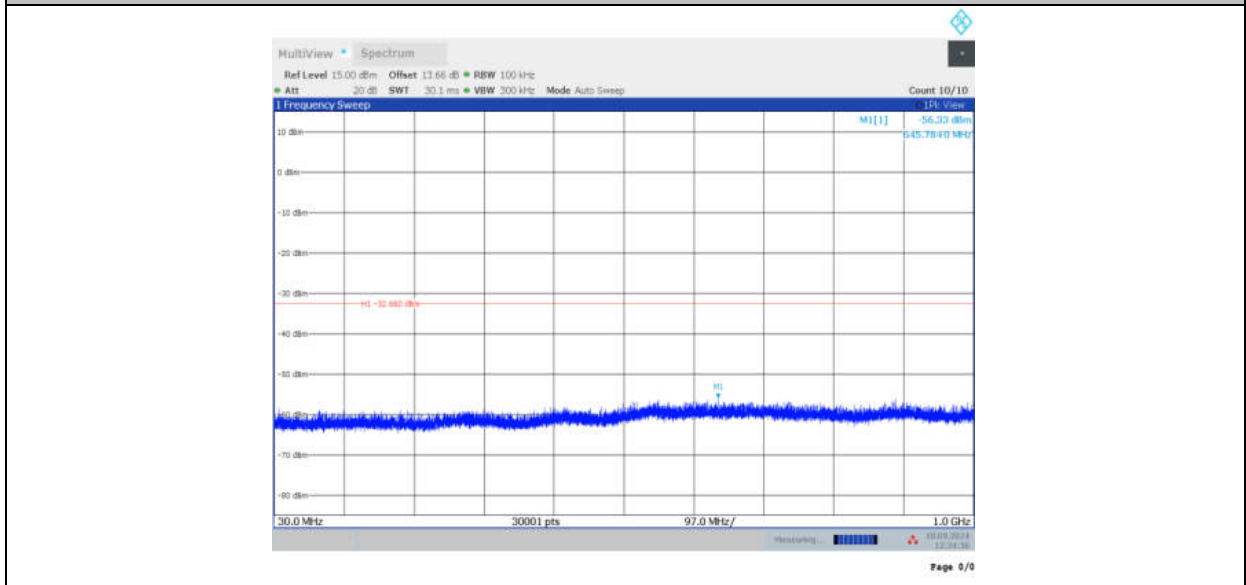
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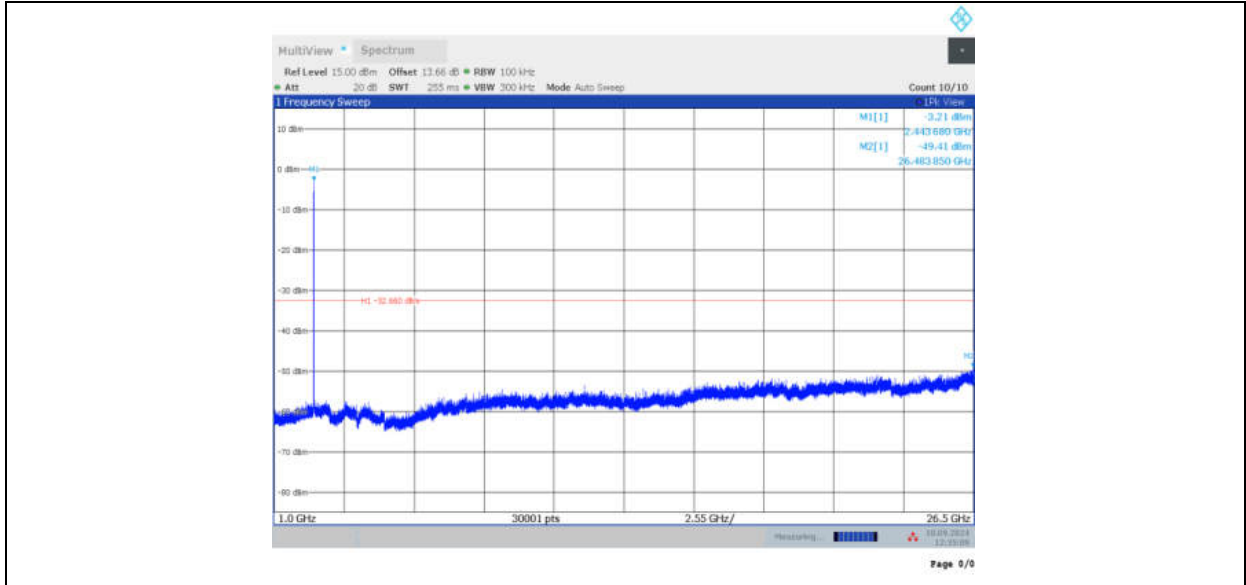
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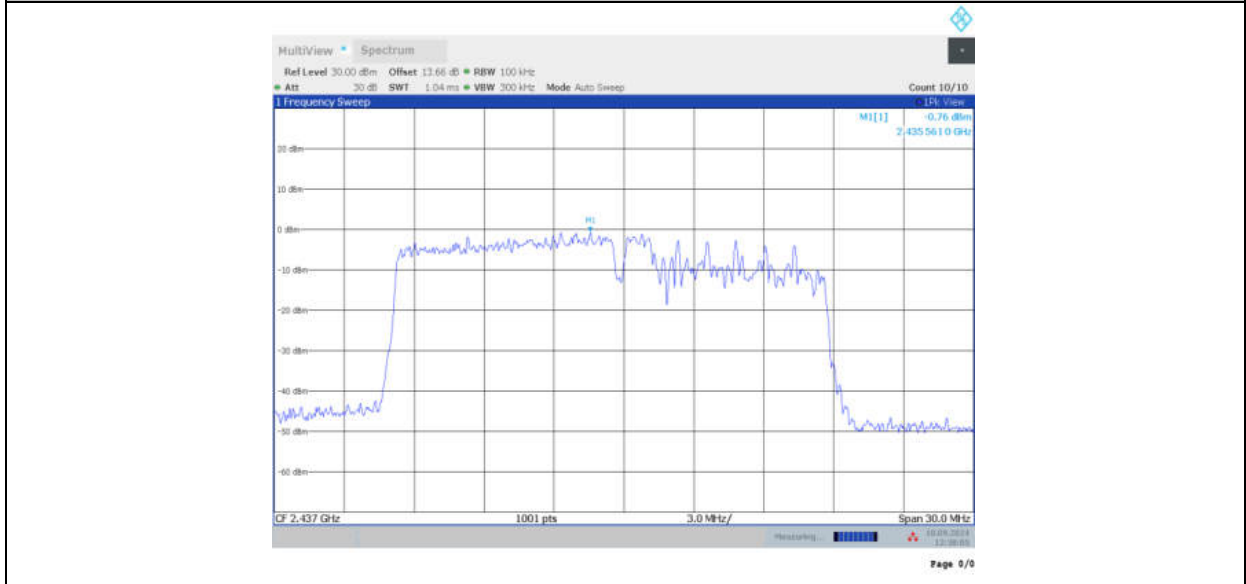
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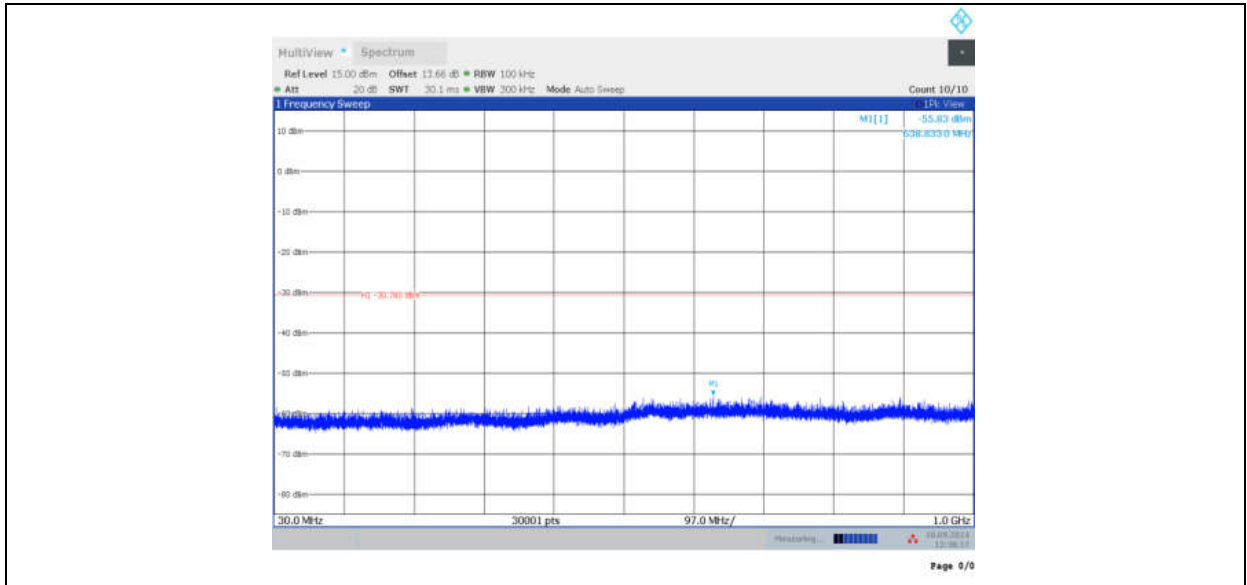
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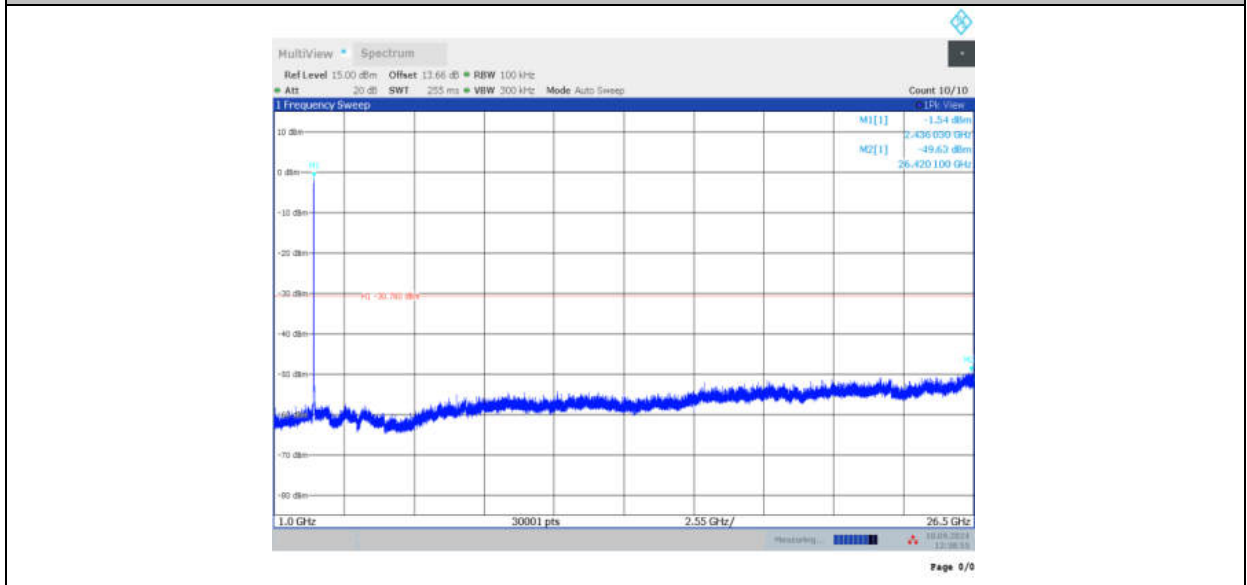
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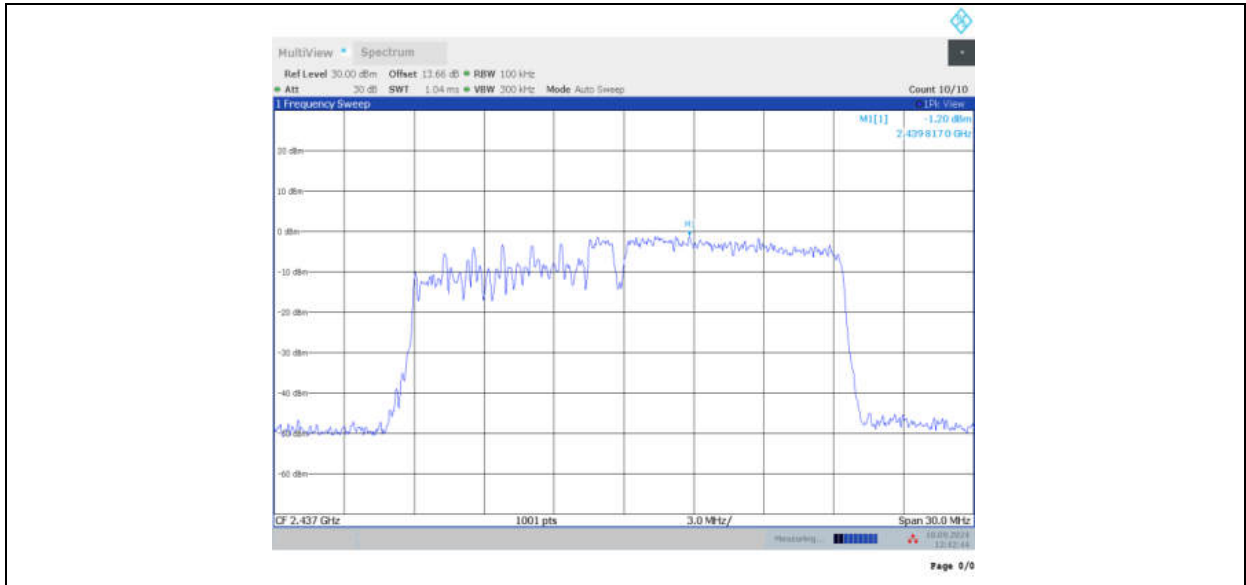
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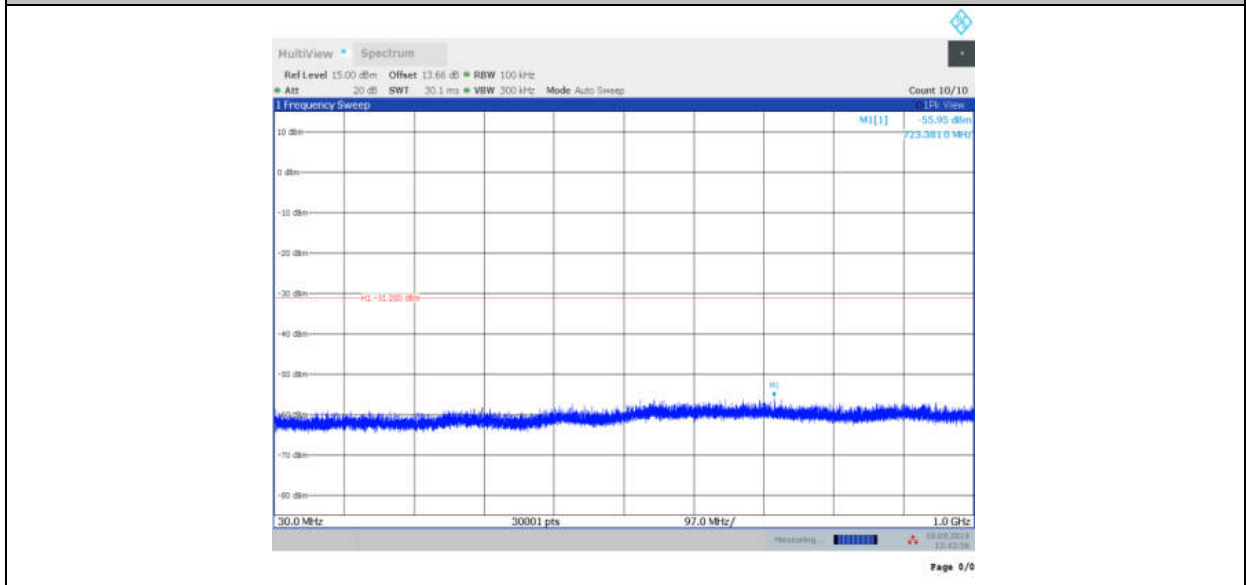
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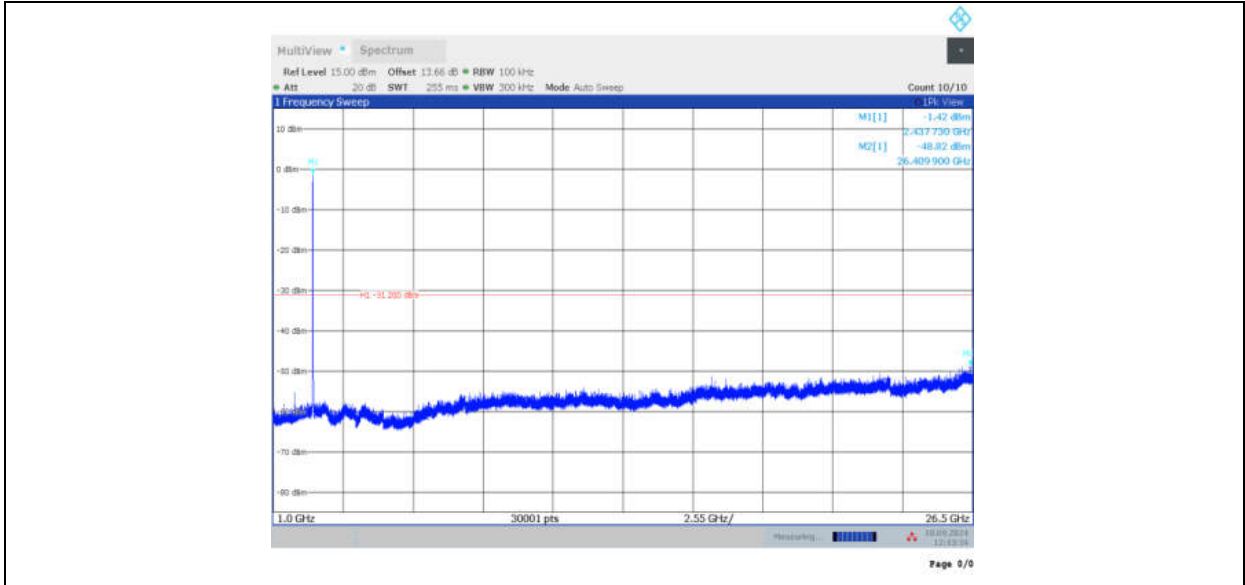
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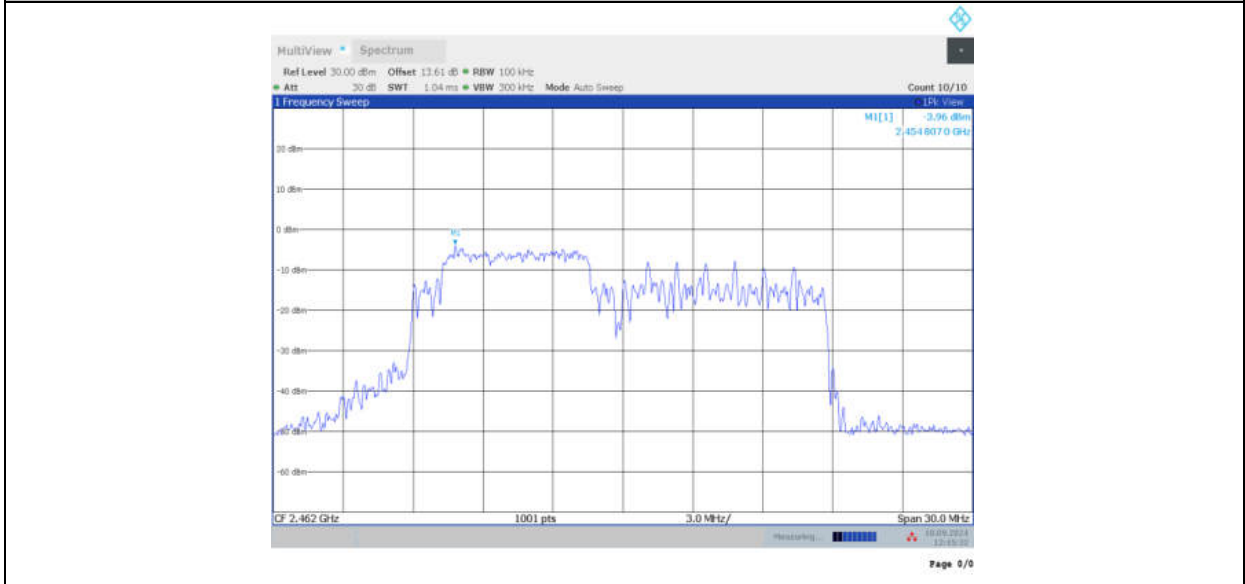
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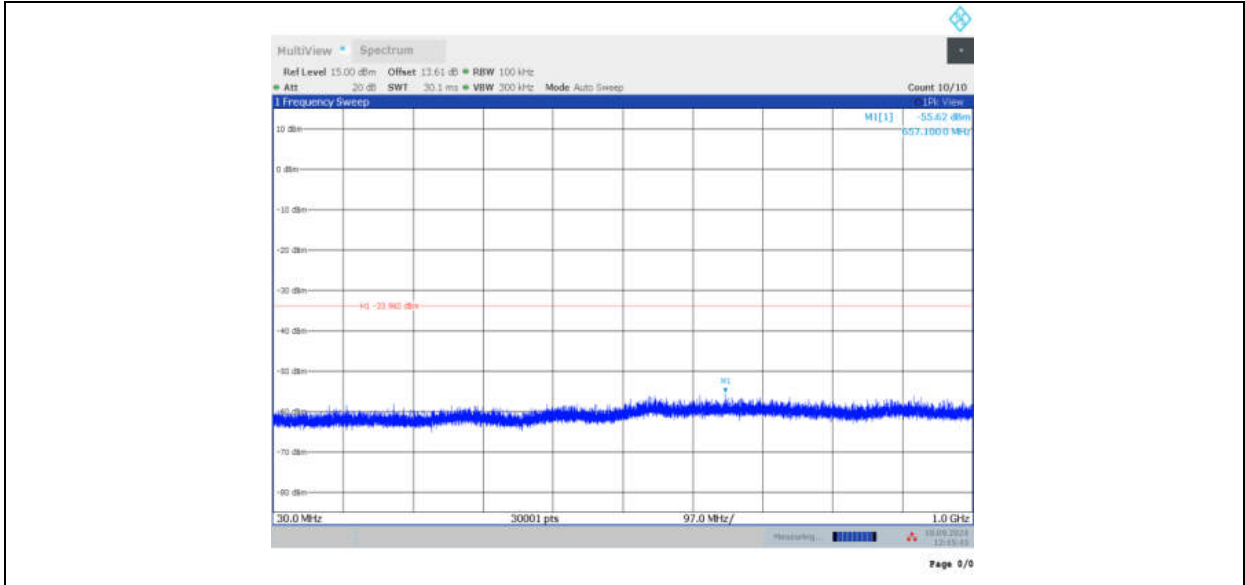
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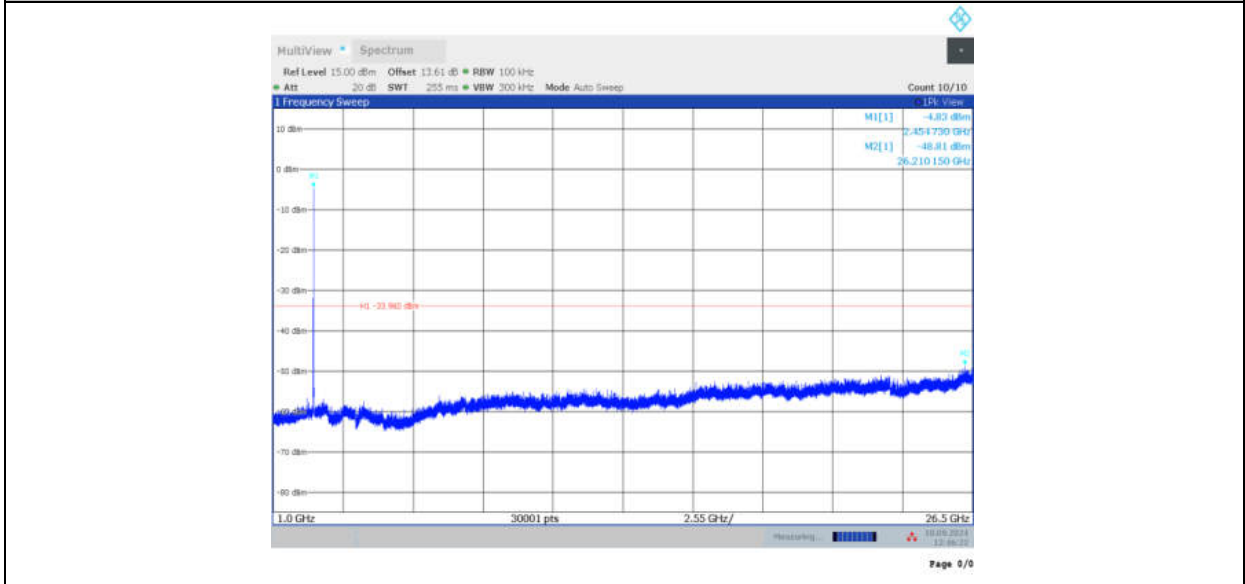
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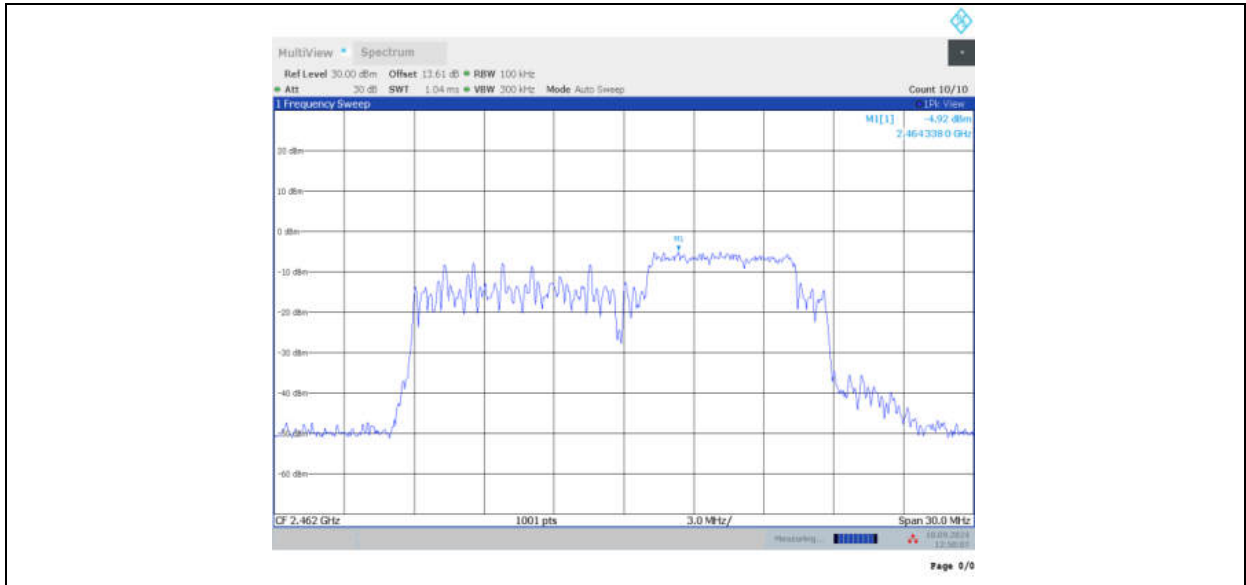
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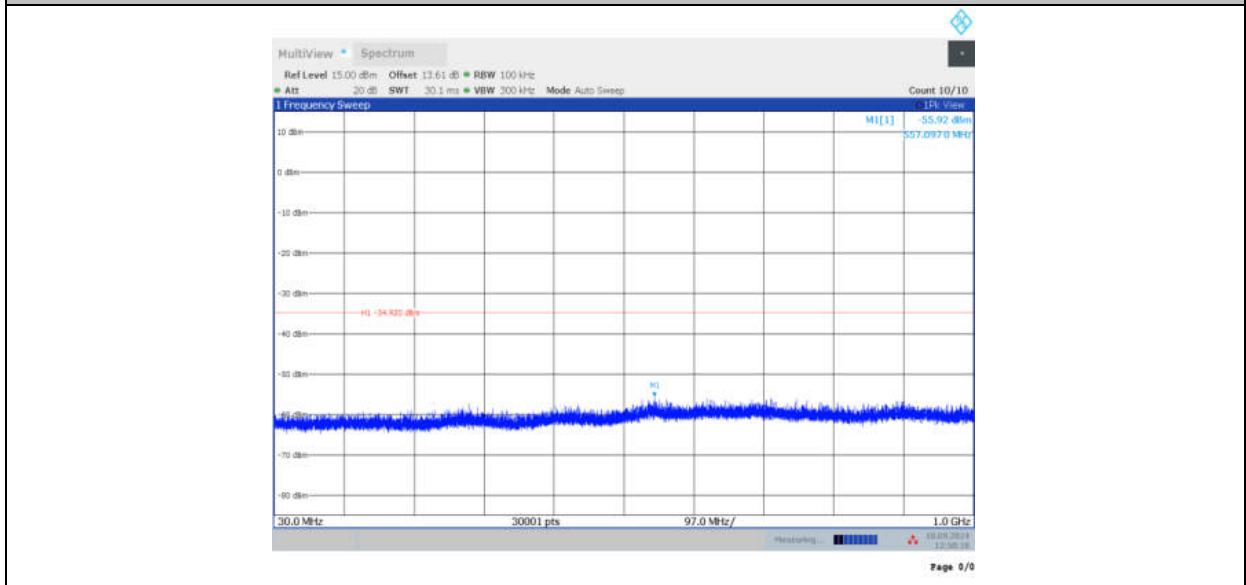
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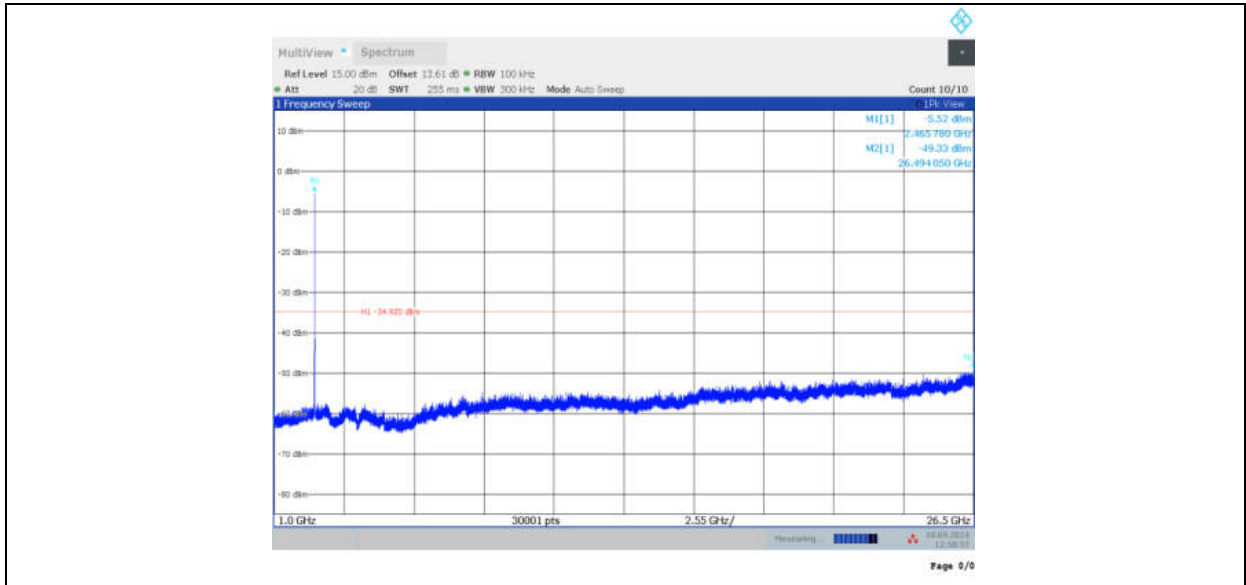
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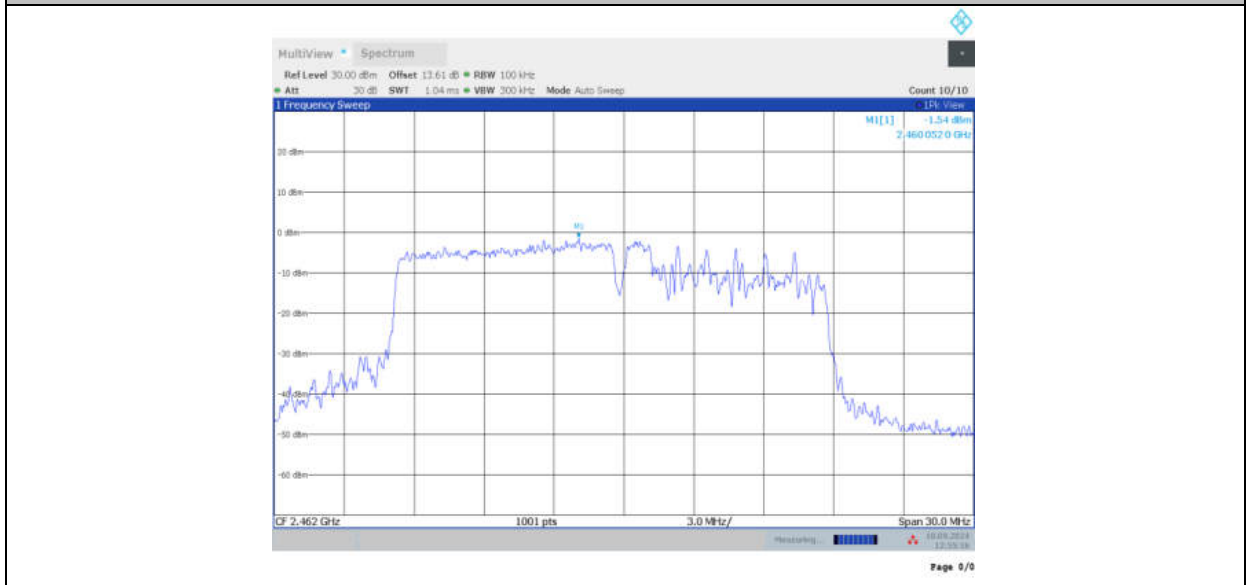
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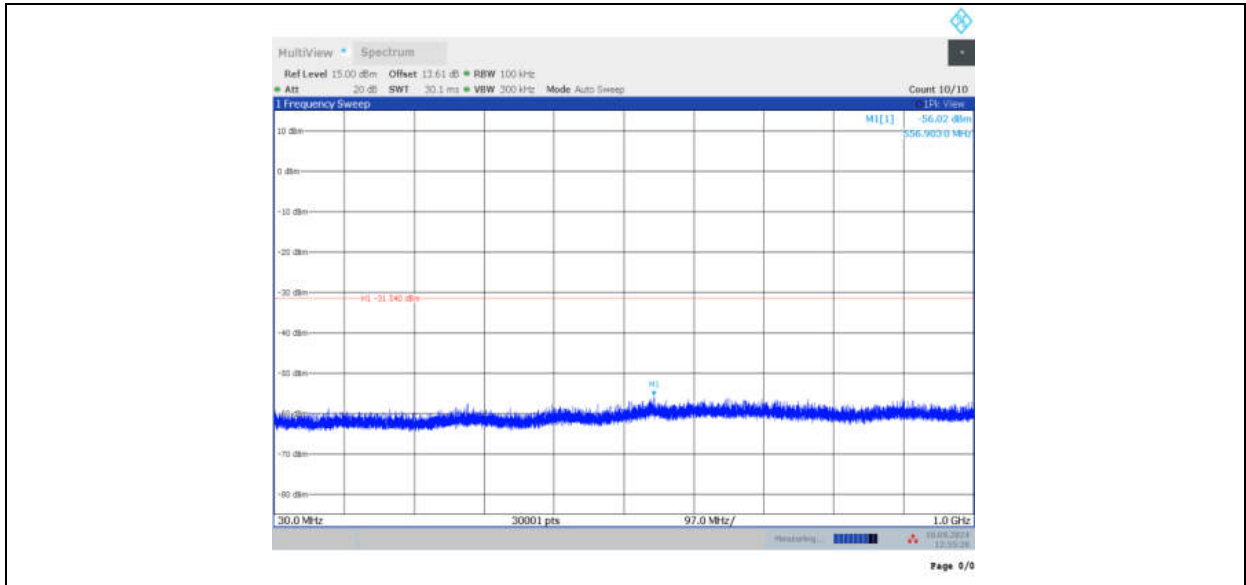
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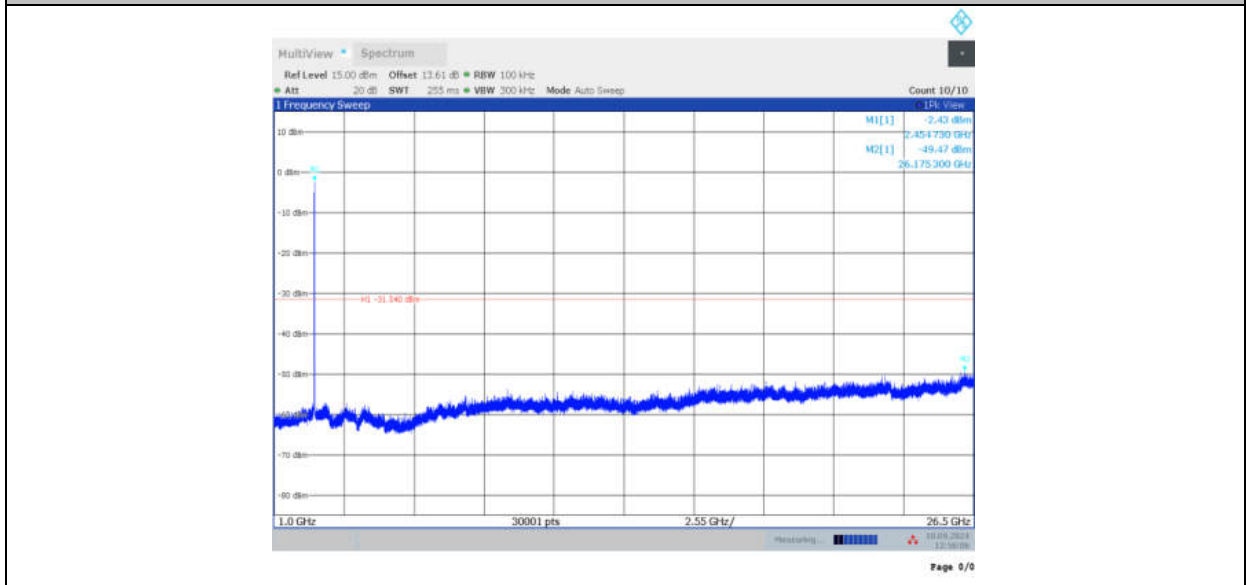
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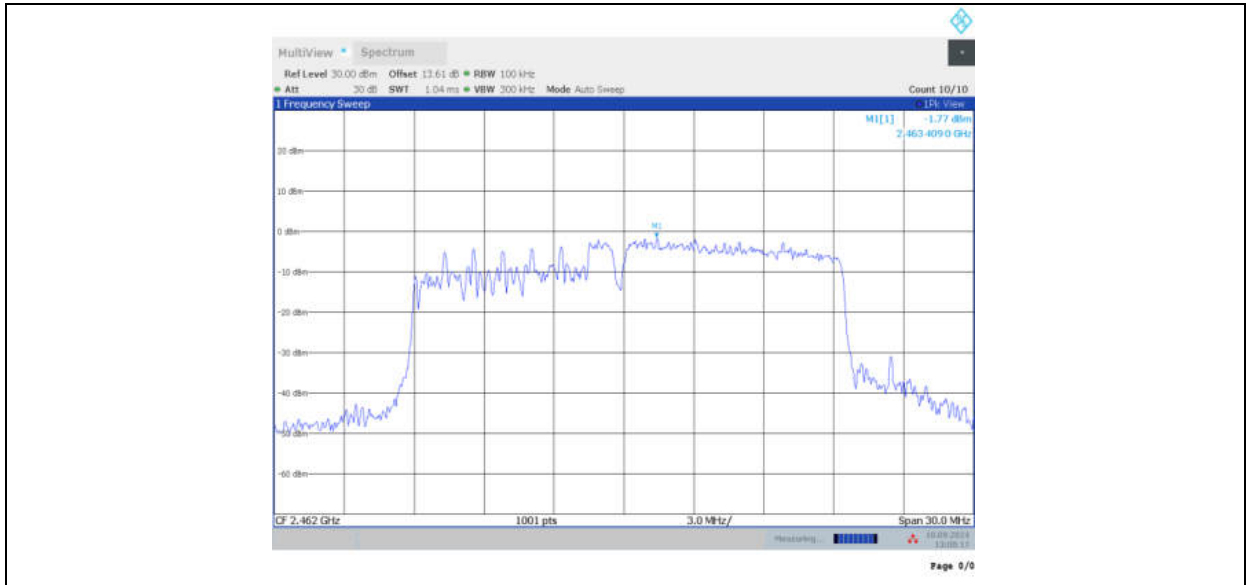
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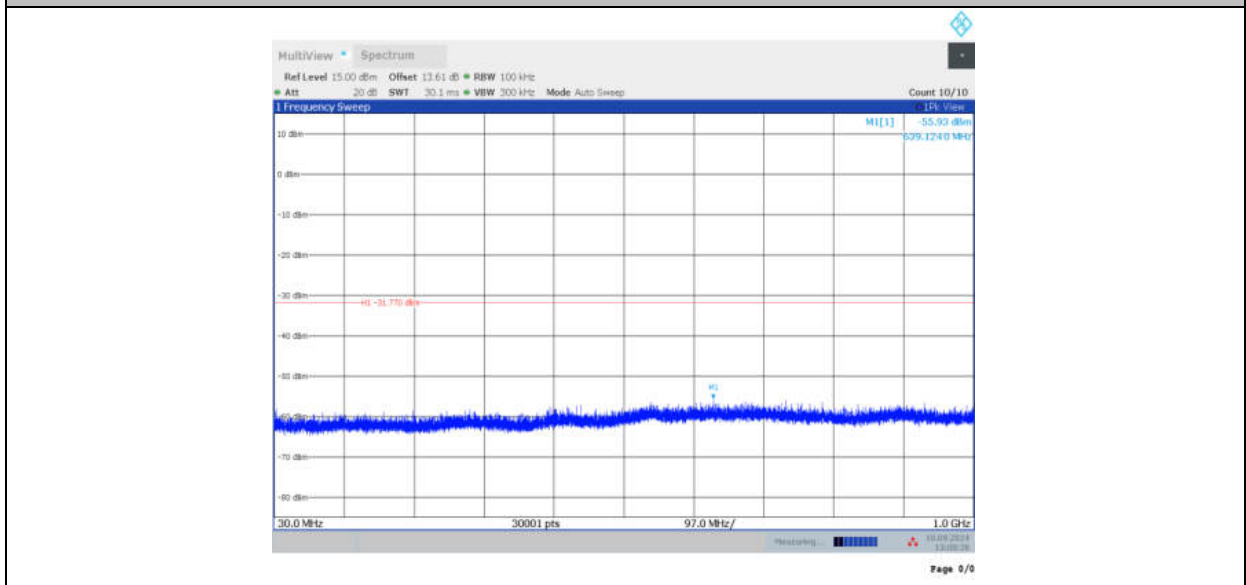
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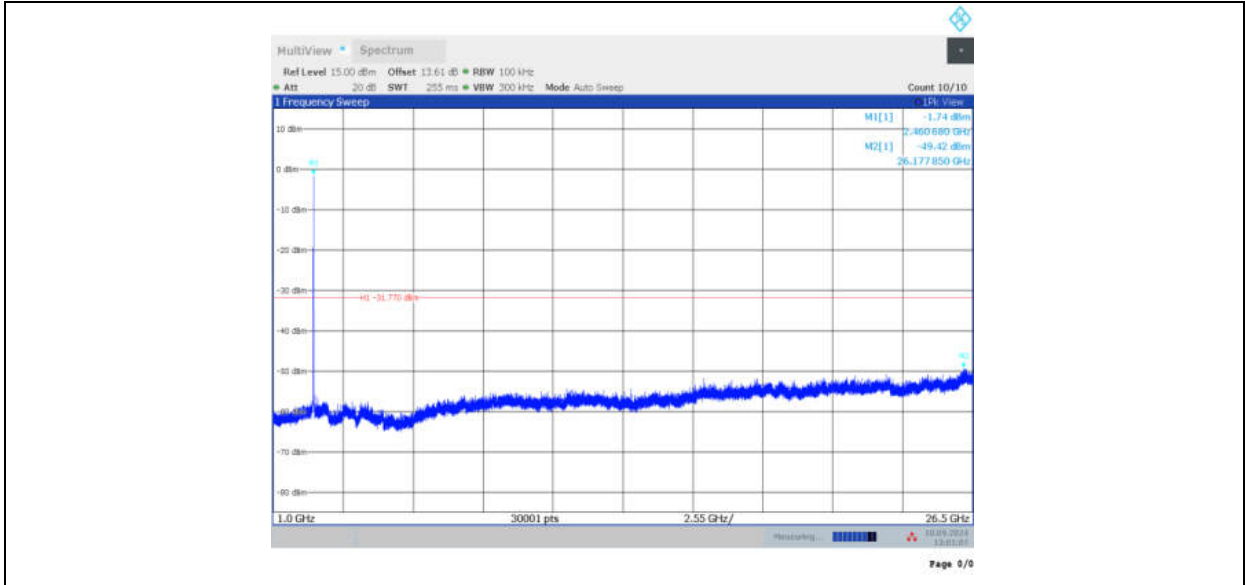
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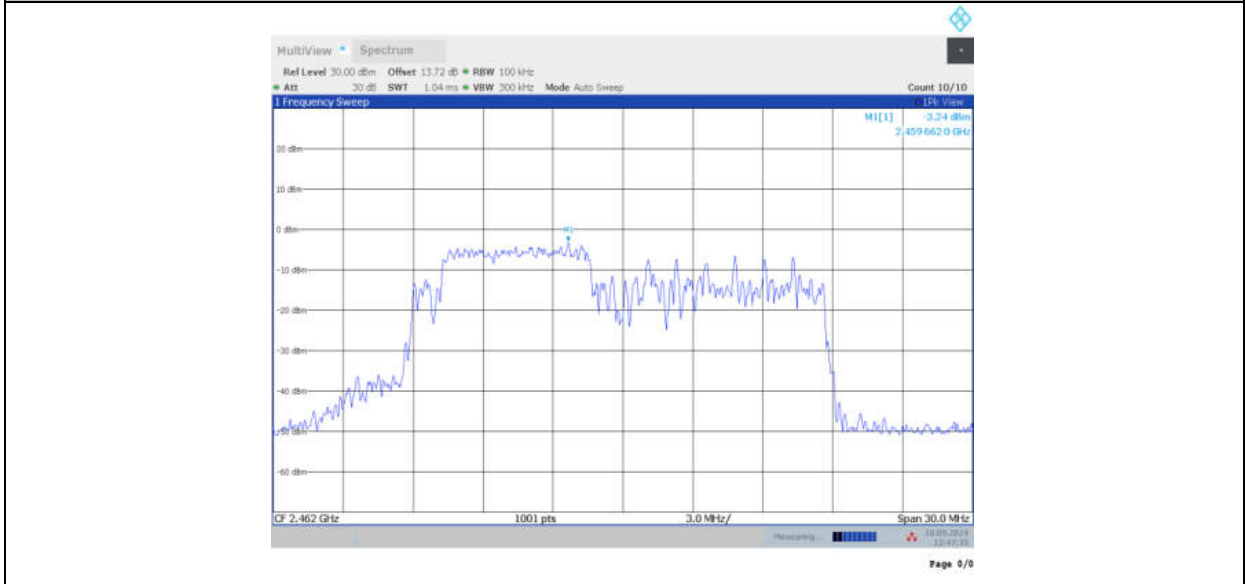
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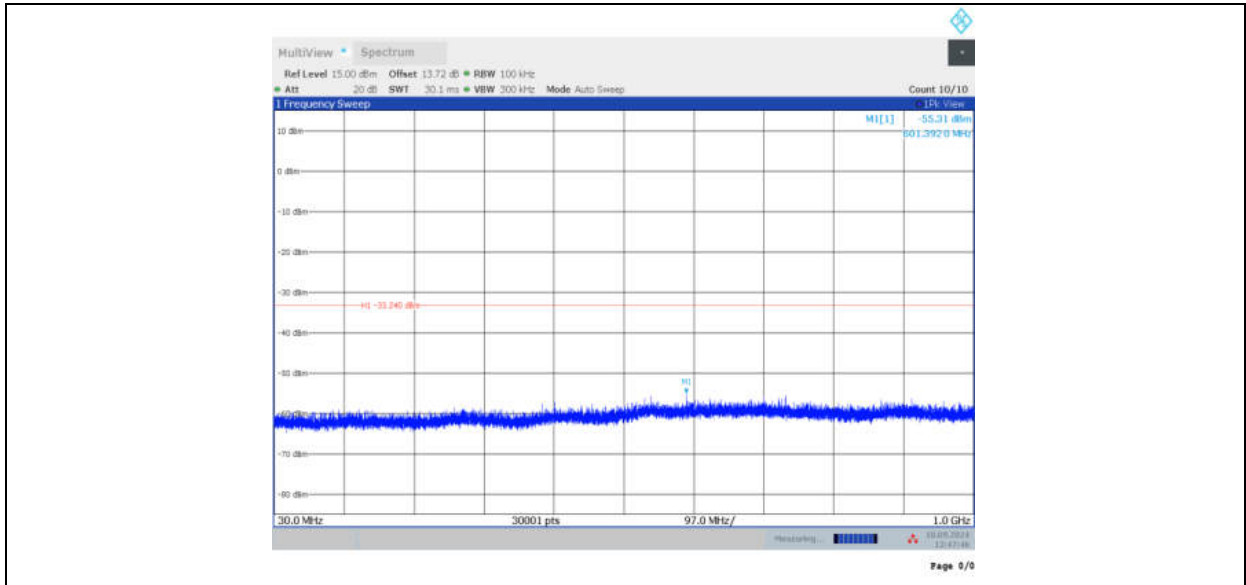
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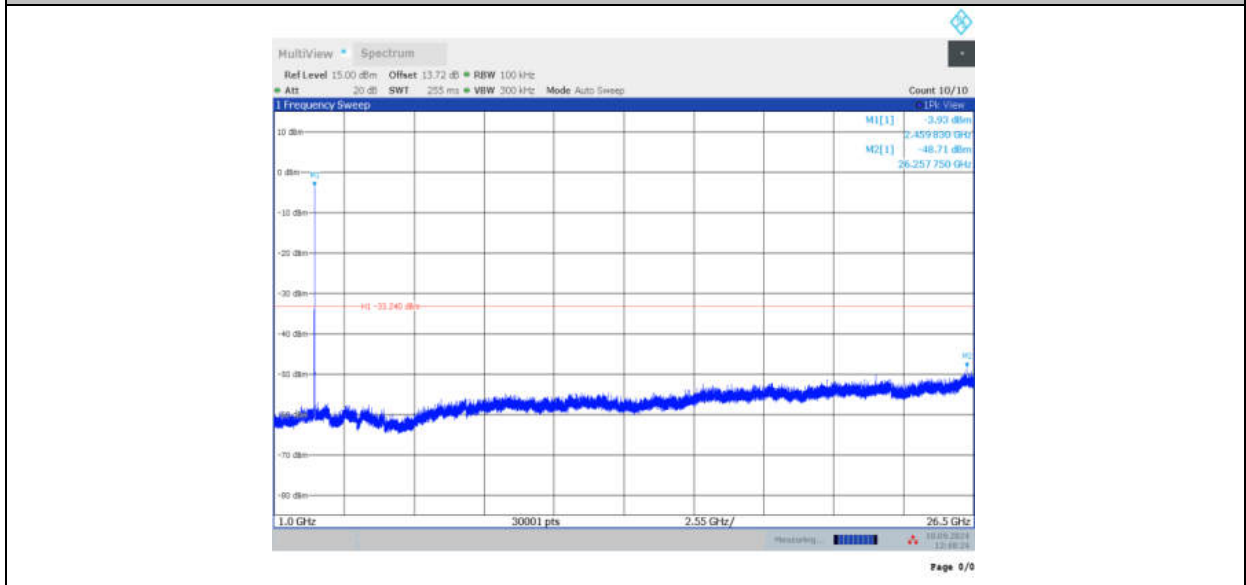
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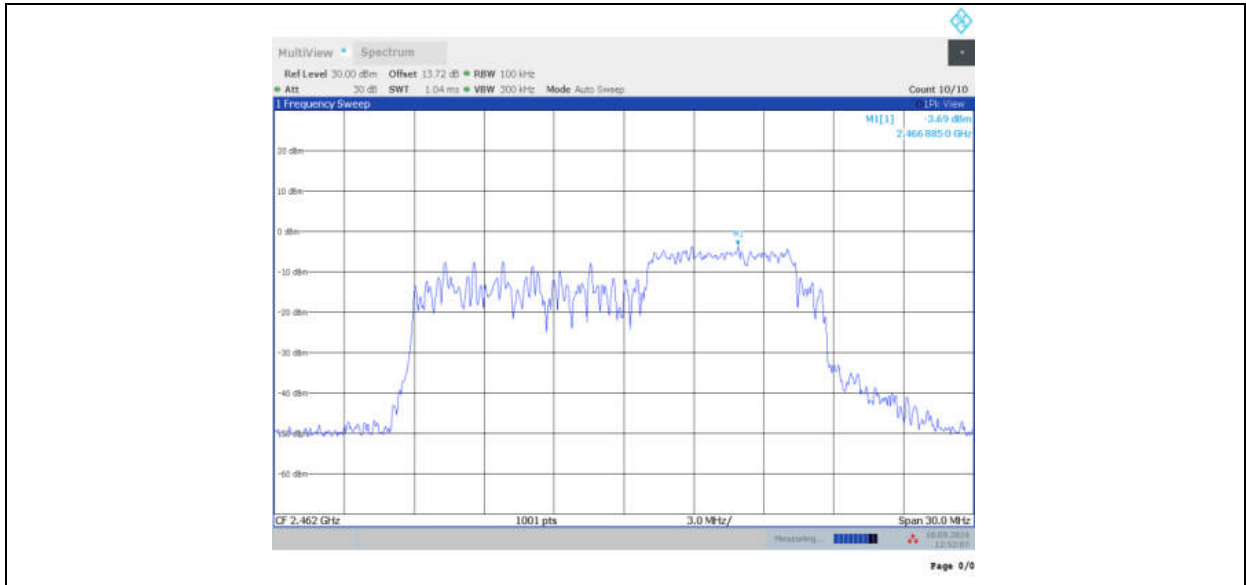
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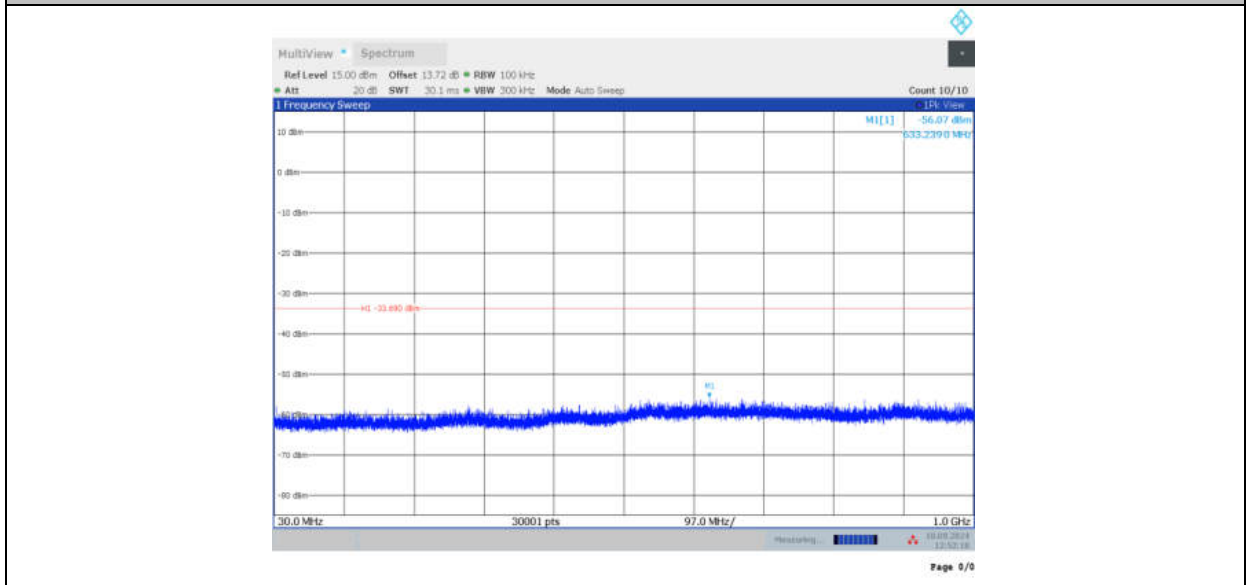
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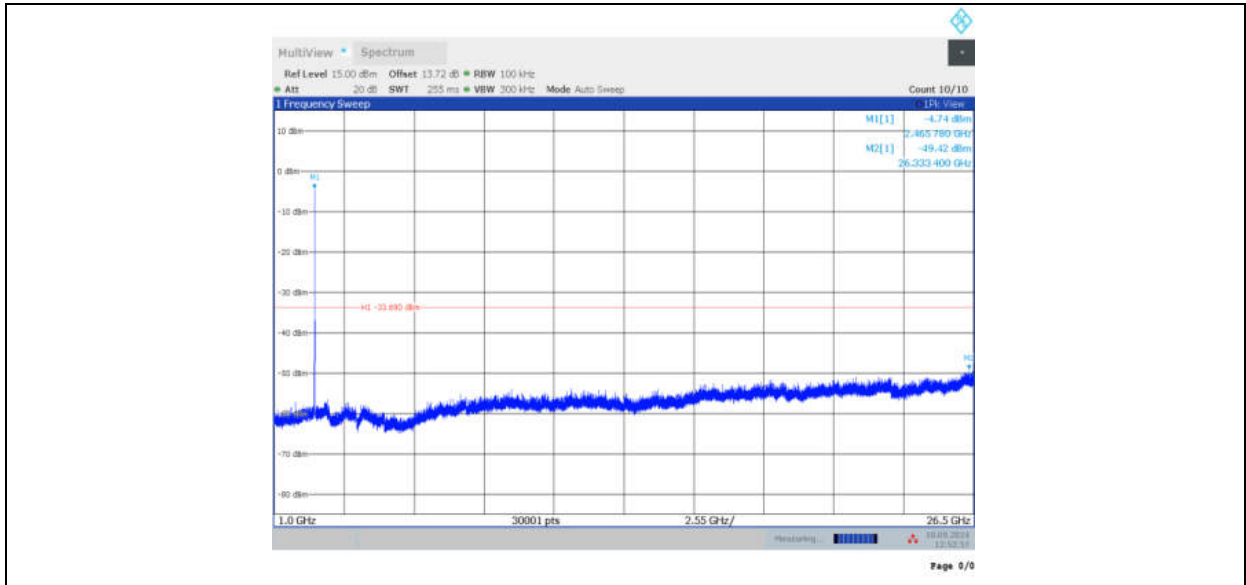
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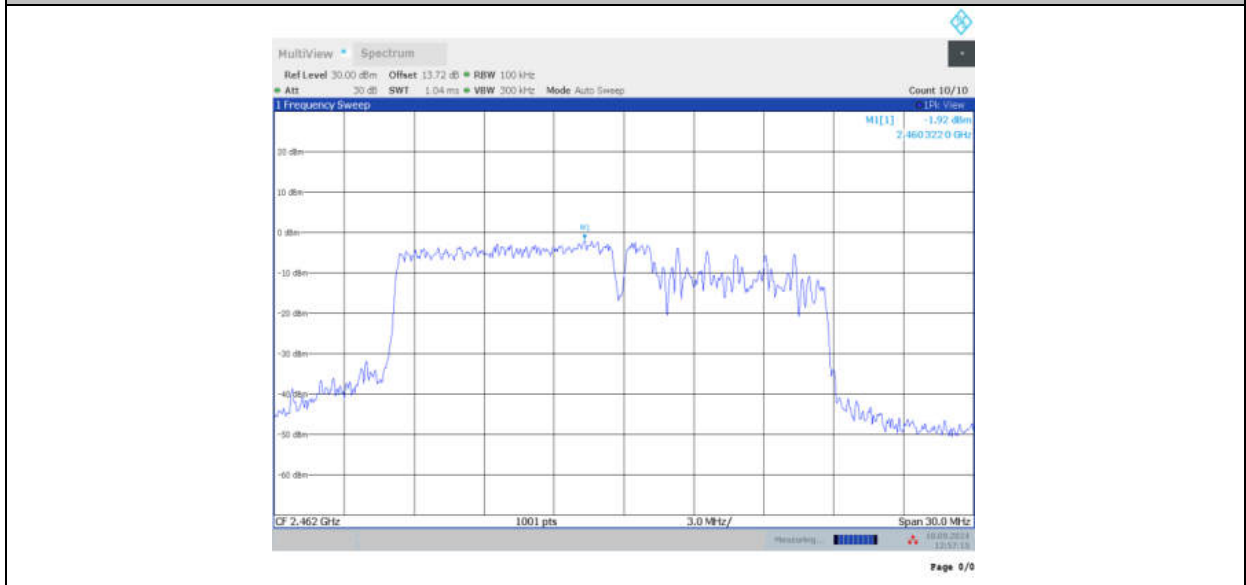
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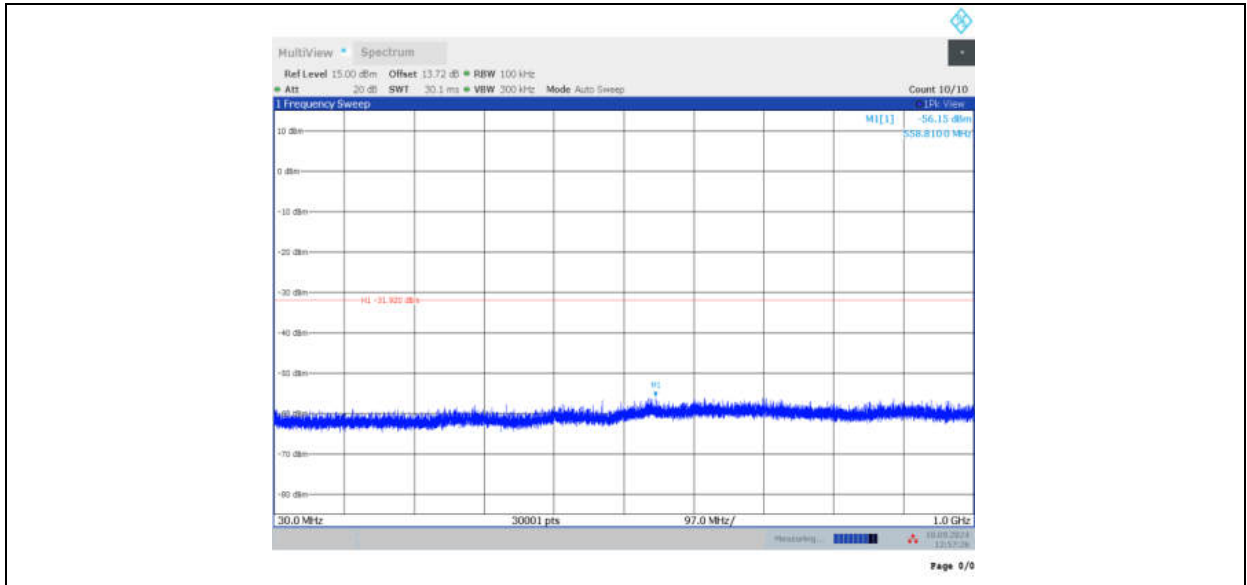
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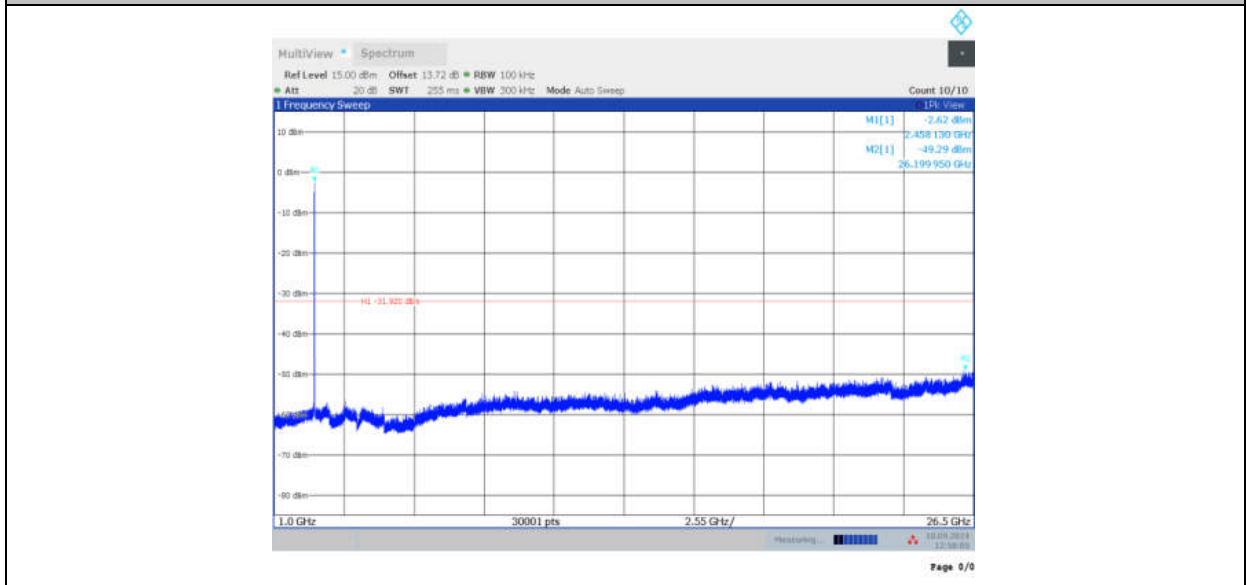
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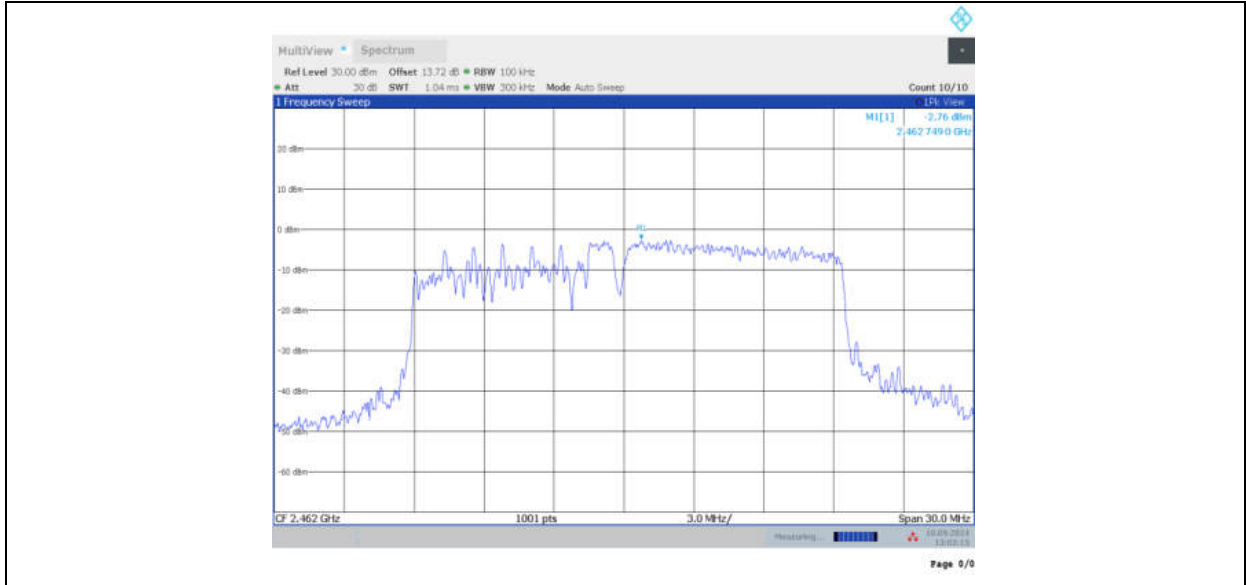
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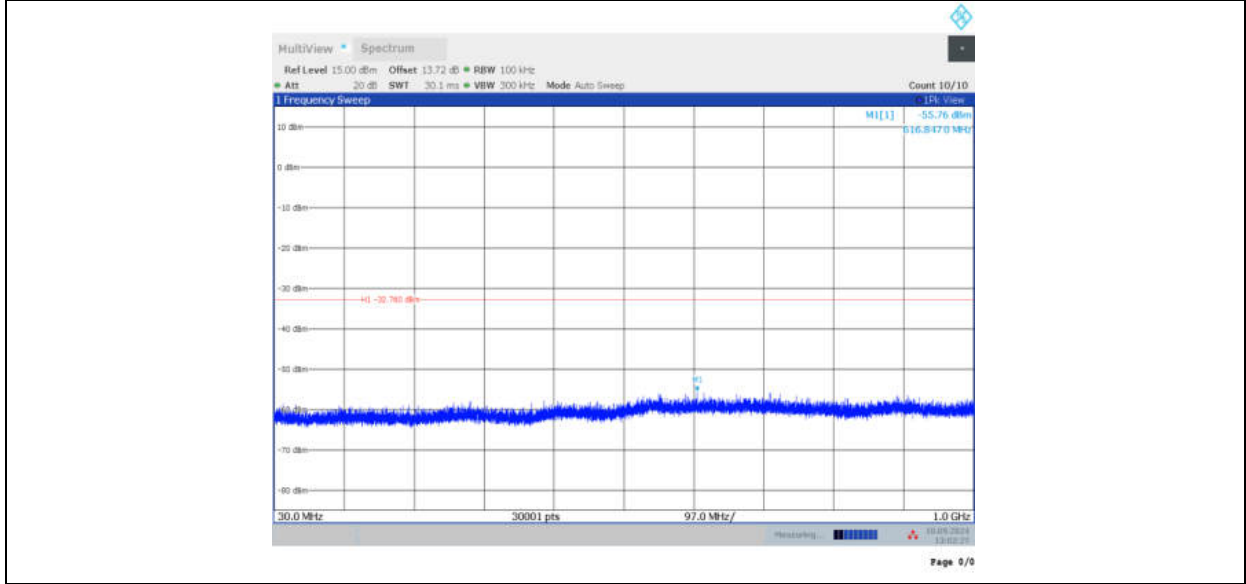
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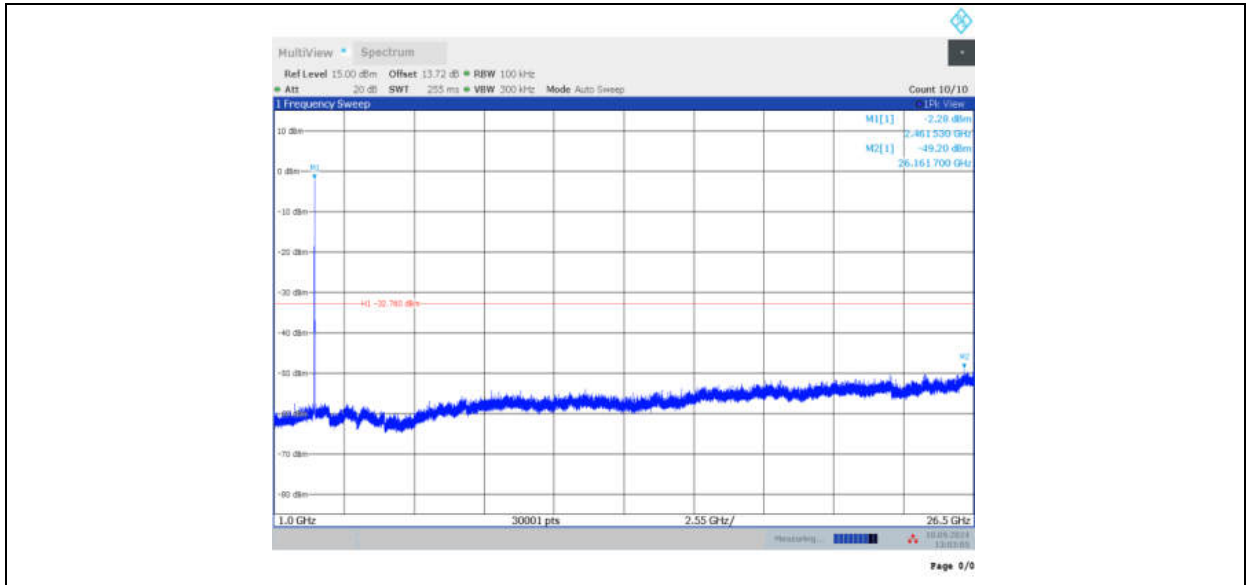
11BE20MIMO_Ant7_2462_106+26_OFDMA_4_0~Reference



11BE20MIMO_Ant7_2462_106+26_OFDMA_4_30~1000



11BE20MIMO_Ant7_2462_106+26_OFDMA_4_1000~26500



Conclusion: Pass

A.7. Radiated Unwanted Emission

Limits

Measurement Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band

Frequency (MHz)	Field strength($\mu\text{V}/\text{m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength ($\mu\text{V}/\text{m}$)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

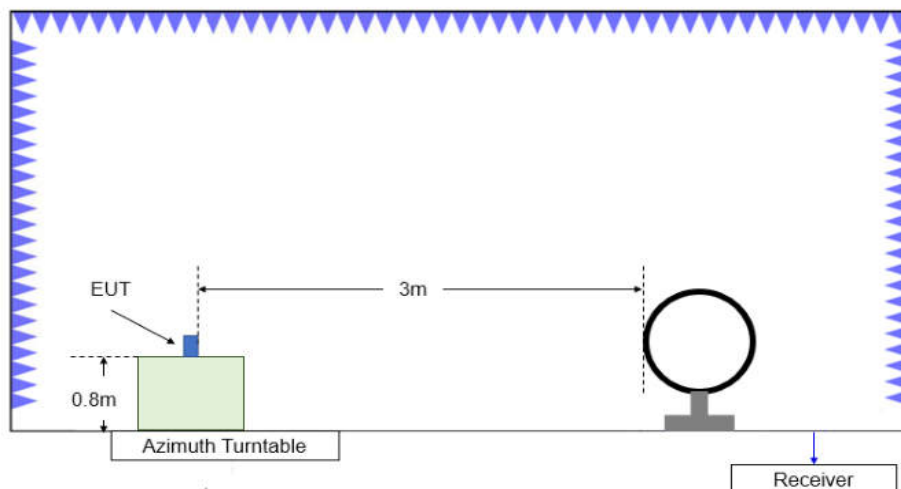


Figure A.2.1. Test Site Diagram (9kHz-30MHz)

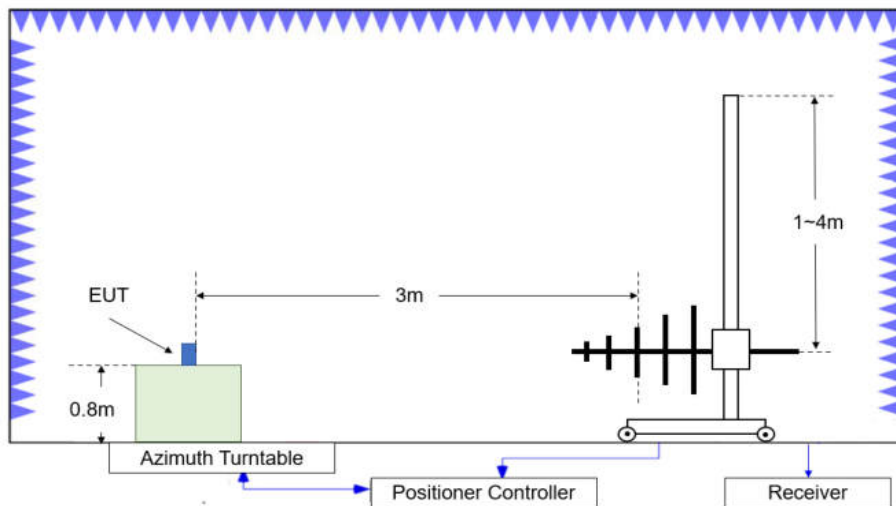


Figure A.2.2. Test Site Diagram (30MHz-1GHz)

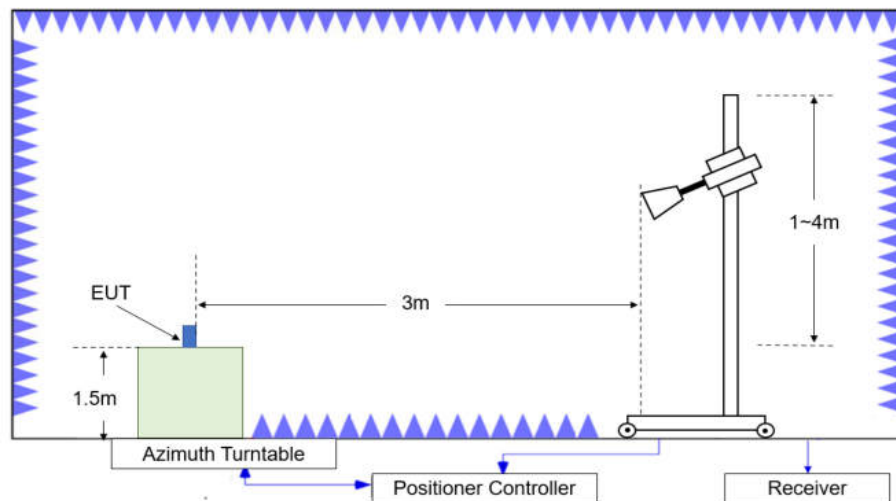


Figure A.2.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10.

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + \text{Cable Loss} + \text{Antenna Factor}$$

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.
5. The EUT supports SISOs for chain0/chain1 and MIMO. All combinations are evaluated, only the worst cases are reported.
6. The EUT support full RU and partial RU for 802.11ax and 802.11be, both full RU and partial RU spurious emission was tested. And the results are basically noises with no suspicious emission. In this case, the measurement results of full RU were reported and represented worst cases.

Test Result

Peak

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17896.000	56.21	-25.90	46.00	36.11	74.00	17.79	V
14148.500	51.80	-29.40	41.70	39.50	74.00	22.20	H
12976.000	49.22	-29.40	40.10	38.52	74.00	24.78	V
8195.000	46.89	-34.30	36.90	44.29	74.00	27.11	V
7515.000	46.45	-34.70	36.40	44.75	74.00	27.55	H
2372.800	56.75	-19.30	28.20	47.85	74.00	17.25	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17891.500	55.81	-25.90	46.00	35.71	74.00	18.19	H
14068.500	51.47	-29.10	41.70	38.87	74.00	22.53	V
11864.000	48.58	-31.10	39.10	40.58	74.00	25.42	H
9075.000	47.11	-33.60	37.70	43.01	74.00	26.89	H
7424.000	46.21	-34.40	36.60	44.01	74.00	27.79	V
4955.000	41.82	-36.80	33.60	45.02	74.00	32.18	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.000	56.60	-25.90	46.00	36.50	74.00	17.40	V
14097.000	51.31	-29.10	41.70	38.71	74.00	22.69	H
12947.500	48.54	-29.70	40.00	38.14	74.00	25.46	V
9068.500	46.77	-33.60	37.70	42.67	74.00	27.23	H
7208.000	45.99	-34.50	36.20	44.29	74.00	28.01	V
2485.800	57.02	-19.00	28.20	47.82	74.00	16.98	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.000	56.33	-25.90	46.00	36.23	74.00	17.67	H
13821.000	51.49	-28.90	41.20	39.19	74.00	22.51	V
12755.000	48.32	-30.50	39.60	39.22	74.00	25.68	V
8574.000	46.92	-34.10	37.50	43.52	74.00	27.08	H
7517.000	45.68	-34.70	36.40	43.98	74.00	28.32	H
2362.900	56.19	-19.30	28.20	47.29	74.00	17.81	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17865.500	56.08	-25.90	46.00	35.98	74.00	17.92	V
13727.000	51.59	-29.10	41.10	39.59	74.00	22.41	V
11884.500	48.84	-31.30	39.10	41.04	74.00	25.16	V
9236.500	46.72	-33.90	37.60	43.02	74.00	27.28	V
7207.500	46.12	-34.50	36.20	44.42	74.00	27.88	V
4712.000	41.16	-36.80	33.00	44.96	74.00	32.84	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.000	56.62	-25.90	46.00	36.52	74.00	17.38	H
14129.500	51.32	-29.40	41.70	39.02	74.00	22.68	V
12789.000	49.80	-30.60	39.80	40.60	74.00	24.20	H
9604.000	47.57	-33.00	37.60	42.97	74.00	26.43	H
7226.500	45.54	-34.50	36.20	43.84	74.00	28.46	H
2492.000	56.84	-19.00	28.20	47.64	74.00	17.16	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17923.000	56.72	-25.90	46.00	36.62	74.00	17.28	V
14106.500	51.35	-29.10	41.70	38.75	74.00	22.65	H
12418.000	48.46	-30.10	38.90	39.66	74.00	25.54	H
9527.000	47.09	-33.10	37.60	42.59	74.00	26.91	V
7333.500	45.44	-34.80	36.60	43.64	74.00	28.56	V
2364.100	56.97	-19.30	28.20	48.07	74.00	17.03	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.000	55.83	-25.90	46.00	35.73	74.00	18.17	H
13738.500	51.27	-29.10	41.10	39.27	74.00	22.73	H
12301.500	48.64	-30.10	39.00	39.74	74.00	25.36	V
9523.000	46.45	-33.10	37.60	41.95	74.00	27.55	H
7218.000	46.06	-34.50	36.20	44.36	74.00	27.94	H
4795.000	41.90	-37.00	33.10	45.80	74.00	32.10	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.000	55.90	-25.90	46.00	35.80	74.00	18.10	H
13823.000	51.66	-28.90	41.20	39.36	74.00	22.34	H
12792.500	48.62	-30.60	39.80	39.42	74.00	25.38	V
8550.500	46.70	-33.80	37.40	43.10	74.00	27.30	H
7184.000	45.81	-34.50	36.20	44.11	74.00	28.19	H
2494.200	56.83	-19.00	28.20	47.63	74.00	17.17	V

802.11ac-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17921.000	56.31	-25.90	46.00	36.21	74.00	17.69	H
13772.500	51.63	-29.00	41.20	39.43	74.00	22.37	H
12980.500	49.43	-29.40	40.10	38.73	74.00	24.57	V
9720.000	46.71	-33.10	37.80	42.01	74.00	27.29	H
7515.500	46.37	-34.70	36.40	44.67	74.00	27.63	H
2343.000	56.30	-19.30	28.20	47.40	74.00	17.70	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.500	56.10	-25.90	46.00	36.00	74.00	17.90	H
13696.000	51.75	-29.30	41.00	40.05	74.00	22.25	H
12766.000	48.93	-30.50	39.60	39.83	74.00	25.07	H
9812.000	46.92	-33.10	37.90	42.12	74.00	27.08	V
7226.500	46.52	-34.50	36.20	44.82	74.00	27.48	H
4952.000	42.05	-36.80	33.60	45.25	74.00	31.95	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17900.500	56.41	-25.90	46.00	36.31	74.00	17.59	V
13723.500	51.69	-29.10	41.10	39.69	74.00	22.31	H
12356.500	48.85	-30.10	39.00	40.05	74.00	25.15	V
9213.500	46.79	-33.90	37.60	43.09	74.00	27.21	V
7619.500	45.88	-34.70	36.30	44.28	74.00	28.12	V
2495.700	57.03	-19.00	28.20	47.83	74.00	16.97	V

802.11ax-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17913.500	56.12	-25.90	46.00	36.02	74.00	17.88	H
14142.500	51.43	-29.40	41.70	39.13	74.00	22.57	V
12648.500	48.84	-30.40	39.40	39.84	74.00	25.16	H
8457.000	46.44	-33.80	37.40	42.84	74.00	27.56	H
7541.500	46.02	-34.80	36.30	44.52	74.00	27.98	V
2349.800	56.12	-19.30	28.20	47.22	74.00	17.88	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17891.000	57.00	-25.90	46.00	36.90	74.00	17.00	H
14084.000	52.08	-29.10	41.70	39.48	74.00	21.92	H
11791.500	48.88	-31.00	39.20	40.68	74.00	25.12	H
8955.500	48.15	-33.60	37.70	44.05	74.00	25.85	H
7234.000	45.93	-34.90	36.40	44.43	74.00	28.07	H
4982.000	41.33	-36.80	33.60	44.53	74.00	32.67	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17910.000	55.78	-25.90	46.00	35.68	74.00	18.22	H
14182.500	51.31	-29.20	41.70	38.81	74.00	22.69	H
12308.500	48.48	-30.10	39.00	39.58	74.00	25.52	V
9728.500	46.69	-33.10	37.80	41.99	74.00	27.31	V
7619.000	45.69	-34.70	36.30	44.09	74.00	28.31	H
2485.000	57.19	-19.00	28.20	47.99	74.00	16.81	H

802.11be-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17922.500	55.70	-25.90	46.00	35.60	74.00	18.30	V
14085.500	51.52	-29.10	41.70	38.92	74.00	22.48	H
11906.000	48.88	-31.30	39.10	41.08	74.00	25.12	H
8985.000	46.52	-33.60	37.70	42.42	74.00	27.48	V
7426.000	45.59	-34.50	36.50	43.59	74.00	28.41	H
2371.300	56.18	-19.30	28.20	47.28	74.00	17.82	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.500	56.57	-25.90	46.00	36.47	74.00	17.43	H
13812.500	51.50	-28.90	41.20	39.20	74.00	22.50	V
12943.000	49.00	-29.70	40.00	38.60	74.00	25.00	H
9007.500	46.96	-33.60	37.70	42.86	74.00	27.04	H
7210.000	46.06	-34.50	36.20	44.36	74.00	27.94	V
4956.000	41.41	-36.80	33.60	44.61	74.00	32.59	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17931.500	55.89	-25.90	46.00	35.79	74.00	18.11	H
13692.500	51.86	-29.30	41.00	40.16	74.00	22.14	V
12739.000	48.45	-30.50	39.60	39.35	74.00	25.55	H
8978.000	46.96	-33.60	37.70	42.86	74.00	27.04	V
7222.500	46.59	-34.50	36.20	44.89	74.00	27.41	H
2496.600	56.90	-19.00	28.20	47.70	74.00	17.10	H

Average
802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17900.500	46.14	-25.90	46.00	26.04	54.00	7.86	H
13812.000	41.89	-28.90	41.20	29.59	54.00	12.11	V
11785.500	39.43	-31.00	39.20	31.23	54.00	14.57	H
9569.500	36.89	-33.00	37.50	32.39	54.00	17.11	V
7496.000	36.61	-34.70	36.40	34.91	54.00	17.39	H
2361.700	44.50	-19.30	28.20	35.60	54.00	9.50	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.000	46.10	-25.90	46.00	26.00	54.00	7.90	H
14104.000	41.90	-29.10	41.70	29.30	54.00	12.10	V
12920.000	39.12	-30.00	40.00	29.12	54.00	14.88	H
7212.500	36.82	-34.50	36.20	35.12	54.00	17.18	H
9856.500	36.60	-33.20	37.90	31.90	54.00	17.40	V
4924.000	32.32	-36.70	33.30	35.72	54.00	21.68	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.000	46.43	-25.90	46.00	26.33	54.00	7.57	V
13740.000	41.97	-29.10	41.10	29.97	54.00	12.03	V
12989.500	39.12	-29.40	40.10	28.42	54.00	14.88	H
9092.500	36.92	-33.60	37.70	32.82	54.00	17.08	V
7195.000	36.58	-34.50	36.20	34.88	54.00	17.42	V
2496.700	45.11	-19.00	28.20	35.91	54.00	8.89	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.000	46.34	-25.90	46.00	26.24	54.00	7.66	H
14112.500	41.54	-29.40	41.70	29.24	54.00	12.46	H
12853.500	39.58	-30.30	39.90	29.98	54.00	14.42	V
9741.500	36.90	-33.10	37.80	32.20	54.00	17.10	V
7437.500	36.38	-34.50	36.50	34.38	54.00	17.62	V
2363.500	44.37	-19.30	28.20	35.47	54.00	9.63	V

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.500	46.06	-25.90	46.00	25.96	54.00	7.94	V
14085.000	41.79	-29.10	41.70	29.19	54.00	12.21	H
12977.500	39.12	-29.40	40.10	28.42	54.00	14.88	V
9183.500	37.56	-33.80	37.70	33.66	54.00	16.44	V
7206.000	36.60	-34.50	36.20	34.90	54.00	17.40	H
4992.500	31.65	-36.80	33.60	34.85	54.00	22.35	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.000	46.37	-25.90	46.00	26.27	54.00	7.63	V
14101.000	41.88	-29.10	41.70	29.28	54.00	12.12	H
12436.500	38.99	-30.20	39.00	30.19	54.00	15.01	H
8946.500	36.72	-33.60	37.70	32.62	54.00	17.28	V
7426.000	36.34	-34.50	36.50	34.34	54.00	17.66	H
2485.900	44.88	-19.00	28.20	35.68	54.00	9.12	H

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Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.500	47.12	-25.90	46.00	27.02	54.00	6.88	H
13808.000	41.68	-29.00	41.20	29.48	54.00	12.32	H
12763.500	38.98	-30.50	39.60	29.88	54.00	15.02	V
9721.000	37.24	-33.10	37.80	32.54	54.00	16.76	H
7533.500	36.22	-34.80	36.30	34.72	54.00	17.78	V
2354.700	44.60	-19.30	28.20	35.70	54.00	9.40	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17931.000	46.27	-25.90	46.00	26.17	54.00	7.73	H
14100.500	41.91	-29.10	41.70	29.31	54.00	12.09	H
12863.500	39.54	-30.30	39.90	29.94	54.00	14.46	H
9644.500	37.01	-33.00	37.60	32.41	54.00	16.99	V
7517.000	36.12	-34.70	36.40	34.42	54.00	17.88	V
4957.500	32.02	-36.80	33.60	35.22	54.00	21.98	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17893.500	46.76	-25.90	46.00	26.66	54.00	7.24	V
14113.500	41.52	-29.40	41.70	29.22	54.00	12.48	H
11888.000	39.22	-31.30	39.10	31.42	54.00	14.78	H
9139.000	36.83	-33.70	37.70	32.83	54.00	17.17	V
7517.000	36.21	-34.70	36.40	34.51	54.00	17.79	V
2495.800	45.11	-19.00	28.20	35.91	54.00	8.89	H

802.11ac-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17920.500	46.30	-25.90	46.00	26.20	54.00	7.70	V
14084.000	41.87	-29.10	41.70	29.27	54.00	12.13	V
12368.000	38.97	-30.10	39.00	30.17	54.00	15.03	V
9619.500	36.86	-33.00	37.60	32.26	54.00	17.14	H
7527.000	36.29	-34.80	36.30	34.79	54.00	17.71	V
2362.600	44.46	-19.30	28.20	35.56	54.00	9.54	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.000	46.41	-25.90	46.00	26.31	54.00	7.59	H
13724.500	42.33	-29.10	41.10	30.33	54.00	11.67	H
12957.000	39.00	-29.70	40.00	28.60	54.00	15.00	H
9211.000	36.99	-33.90	37.60	33.29	54.00	17.01	H
7525.000	36.55	-34.80	36.30	35.05	54.00	17.45	H
4762.500	31.80	-37.00	33.10	35.70	54.00	22.20	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.500	46.32	-25.90	46.00	26.22	54.00	7.68	V
14114.000	41.82	-29.40	41.70	29.52	54.00	12.18	H
11836.500	39.09	-31.10	39.10	31.09	54.00	14.91	H
8964.000	37.35	-33.60	37.70	33.25	54.00	16.65	V
7224.500	36.47	-34.50	36.20	34.77	54.00	17.53	V
2499.300	45.01	-19.00	28.20	35.81	54.00	8.99	H

802.11ax-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.500	46.87	-25.90	46.00	26.77	54.00	7.13	V
14139.000	41.94	-29.40	41.70	29.64	54.00	12.06	H
12333.500	38.97	-30.10	39.00	30.17	54.00	15.03	V
9535.500	36.87	-33.10	37.60	32.37	54.00	17.13	V
7532.500	36.27	-34.80	36.30	34.77	54.00	17.73	V
2389.900	44.75	-19.20	28.20	35.75	54.00	9.25	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17917.000	46.41	-25.90	46.00	26.31	54.00	7.59	H
14111.000	42.11	-29.40	41.70	29.81	54.00	11.89	V
12835.500	39.24	-30.30	39.90	29.64	54.00	14.76	V
9924.000	37.11	-33.30	37.90	32.51	54.00	16.89	H
7532.000	36.28	-34.80	36.30	34.78	54.00	17.72	V
4956.500	32.02	-36.80	33.60	35.22	54.00	21.98	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.000	46.26	-25.90	46.00	26.16	54.00	7.74	V
14101.500	41.89	-29.10	41.70	29.29	54.00	12.11	H
12835.500	39.12	-30.30	39.90	29.52	54.00	14.88	V
9089.500	37.18	-33.60	37.70	33.08	54.00	16.82	V
7520.000	36.44	-34.70	36.40	34.74	54.00	17.56	V
2489.500	45.04	-19.00	28.20	35.84	54.00	8.96	H

802.11be-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.000	46.31	-25.90	46.00	26.21	54.00	7.69	V
13719.000	41.93	-29.10	41.10	29.93	54.00	12.07	V
12928.500	39.55	-29.70	40.00	29.15	54.00	14.45	H
9619.000	36.97	-33.00	37.60	32.37	54.00	17.03	V
7516.500	36.72	-34.70	36.40	35.02	54.00	17.28	V
2388.400	44.75	-19.20	28.20	35.75	54.00	9.25	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17928.500	46.37	-25.90	46.00	26.27	54.00	7.63	H
14124.000	41.92	-29.40	41.70	29.62	54.00	12.08	H
12375.000	39.15	-30.10	39.00	30.35	54.00	14.85	H
8850.000	37.13	-33.60	37.80	32.93	54.00	16.87	H
7438.500	36.47	-34.50	36.50	34.47	54.00	17.53	H
4872.500	31.97	-36.90	33.40	35.47	54.00	22.03	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17921.000	46.52	-25.90	46.00	26.42	54.00	7.48	V
13813.000	41.78	-28.90	41.20	29.48	54.00	12.22	V
12407.000	39.35	-30.10	38.90	30.55	54.00	14.65	V
9927.500	36.91	-33.30	37.90	32.31	54.00	17.09	H
7411.500	36.67	-34.40	36.60	34.47	54.00	17.33	V
2486.200	45.15	-19.00	28.20	35.95	54.00	8.85	H

Band edge compliance
802.11b mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.6.2.1	P
	11	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Test Results	Conclusion
802.11g	1	Fig.A.6.2.3	P
	11	Fig.A.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Test Results	Conclusion
802.11n (HT20)	1	Fig.A.6.2.5	P
	11	Fig.A.6.2.6	P

802.11ac-HT20 mode

Mode	Channel	Test Results	Conclusion
802.11ac (HT20)	1	Fig.A.6.2.7	P
	11	Fig.A.6.2.8	P

802.11ax-HT20 mode full RU

Mode	Channel	Test Results	Conclusion
802.11ax (HT20)	1	Fig.A.6.2.9	P
	11	Fig.A.6.2.10	P

802.11be-HT20 mode full RU

Mode	Channel	Test Results	Conclusion
802.11be (HT20)	1	Fig.A.6.2.11	P
	11	Fig.A.6.2.12	P
	9	Fig.A.6.2.13	P

802.11ax-HT20 mode partial RU

Mode	Channel	RU Configuration	Test Results	Conclusion
802.11ax (HT20)	1	26RU index 0	Fig.A.6.2.14	P
	11	26RU index 8	Fig.A.6.2.15	P

802.11be-HT20 mode partial RU

Mode	Channel	RU Configuration	Test Results	Conclusion
802.11be (HT20)	1	26RU index 0	Fig.A.6.2.16	P
	11	26RU index 8	Fig.A.6.2.17	P

Conclusion: Pass

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

Test graphs as below:

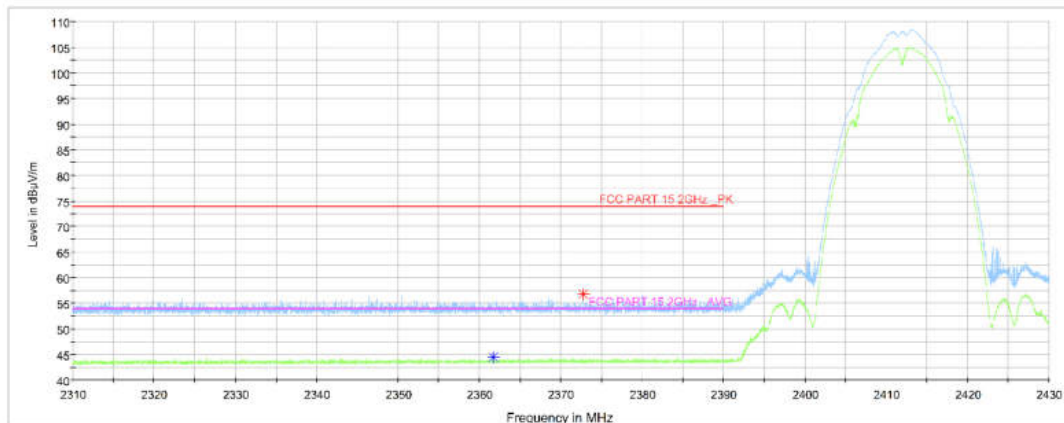


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz

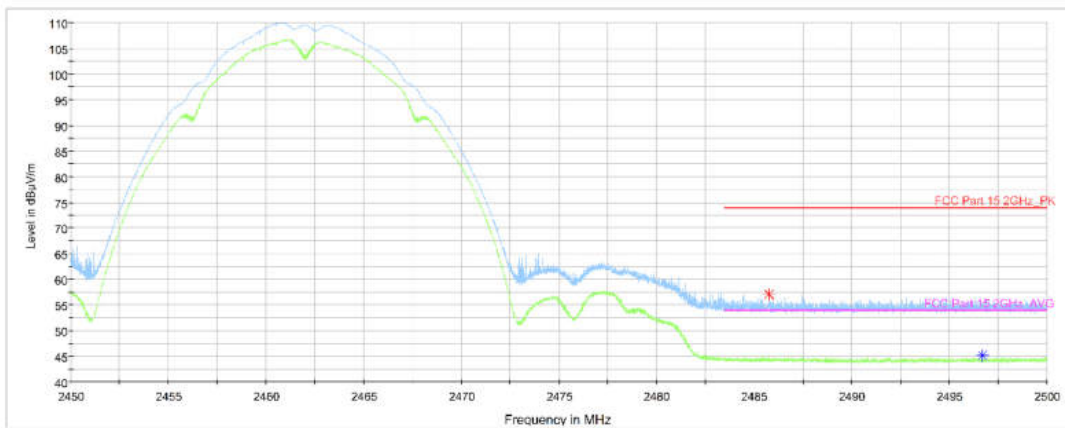


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

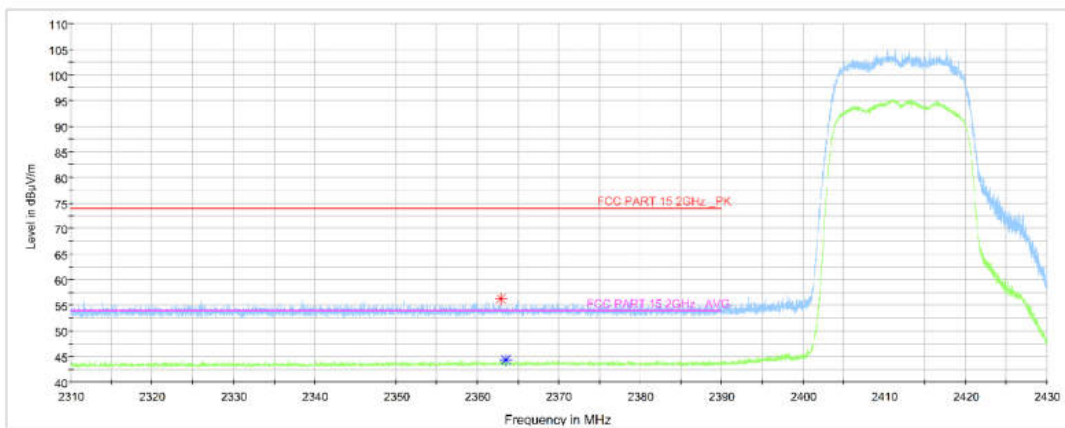


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

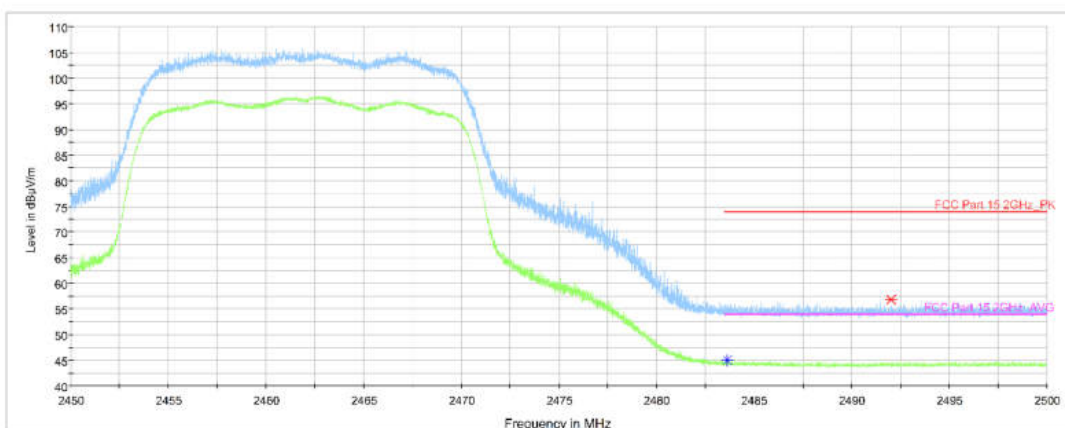


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

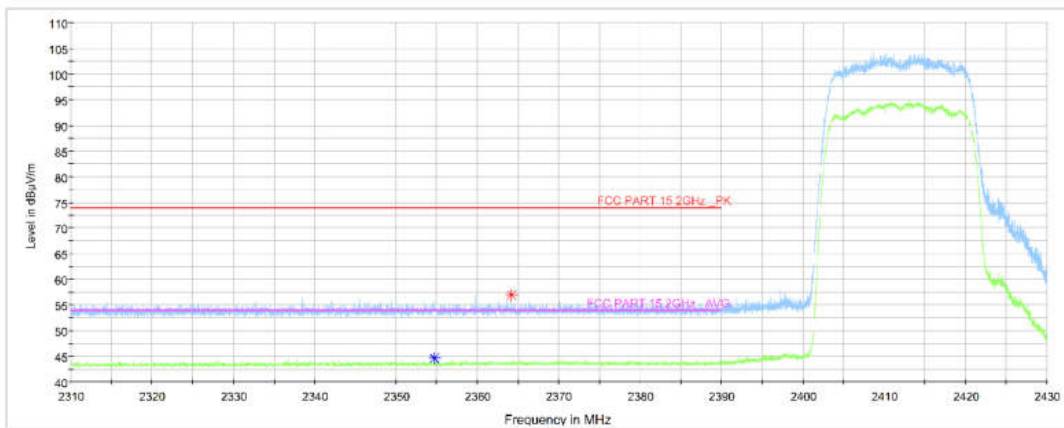


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, MIMO,2.31 GHz - 2.43GHz

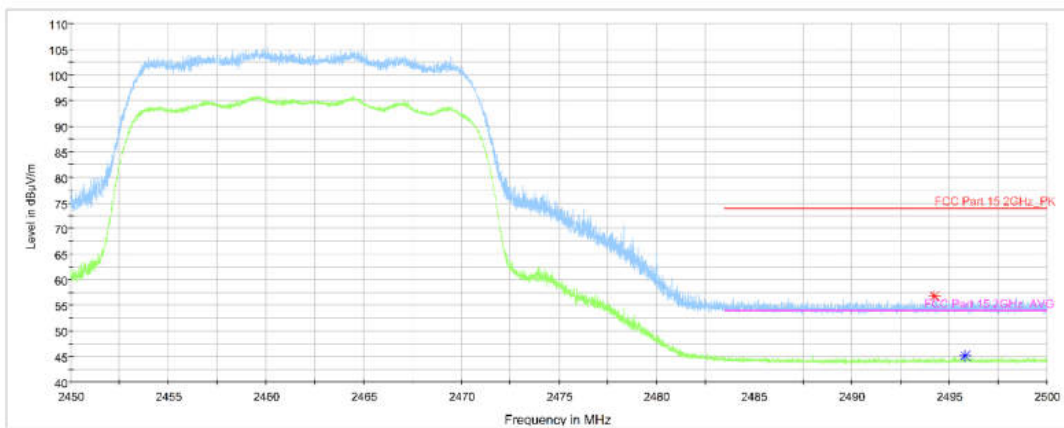


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, MIMO,2.45 GHz - 2.50GHz

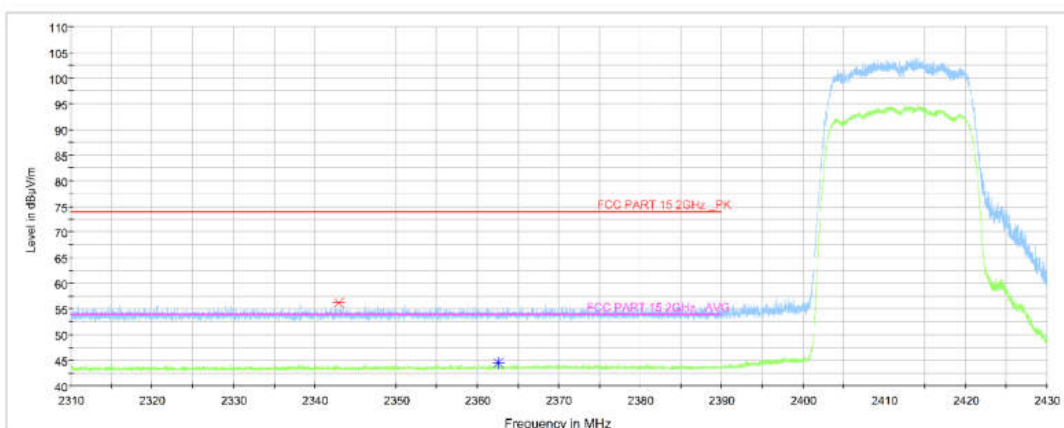


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11ac-HT20, ch1, MIMO,2.31 GHz - 2.43GHz

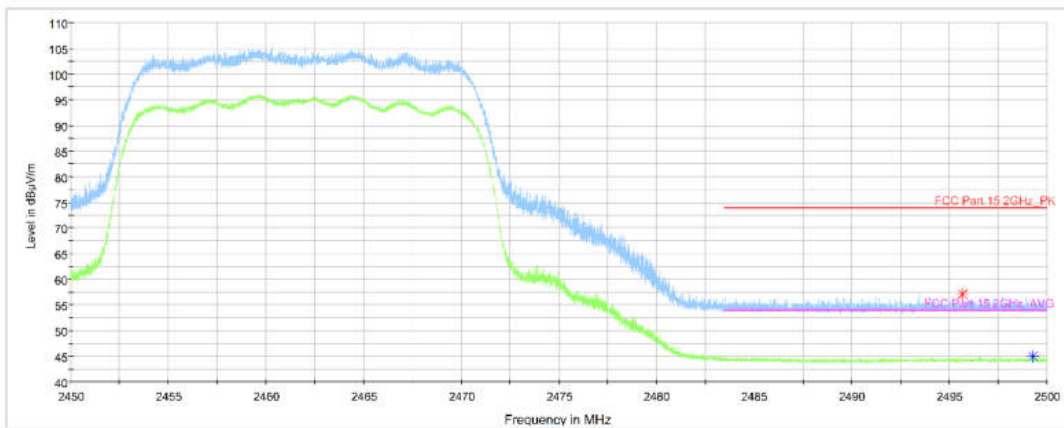


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11ac-HT20, ch11, MIMO,2.45 GHz - 2.50GHz

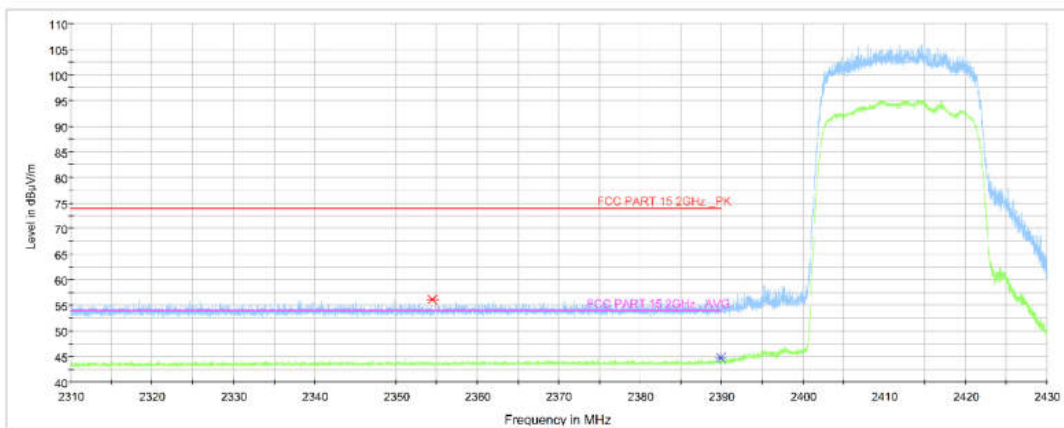


Fig.A.6.2.9 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1, MIMO,2.31 GHz - 2.43GHz

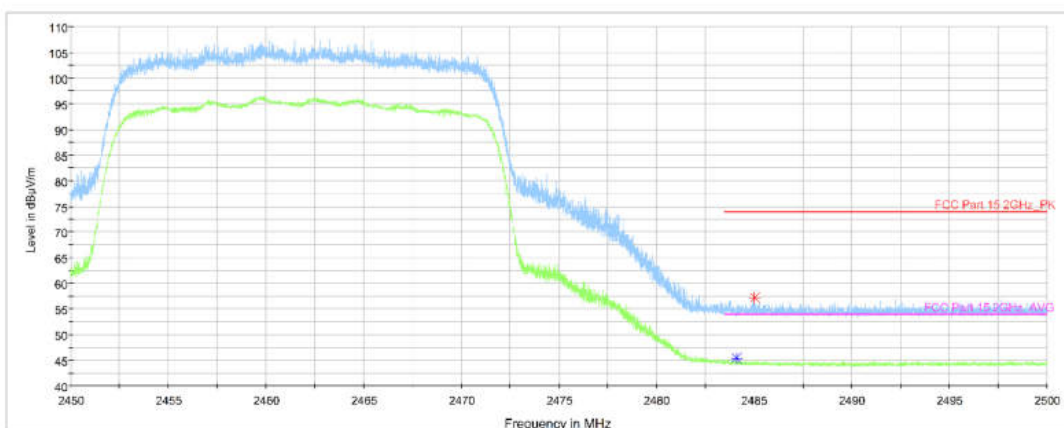


Fig.A.6.2.10 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11, MIMO,2.45 GHz - 2.50GHz

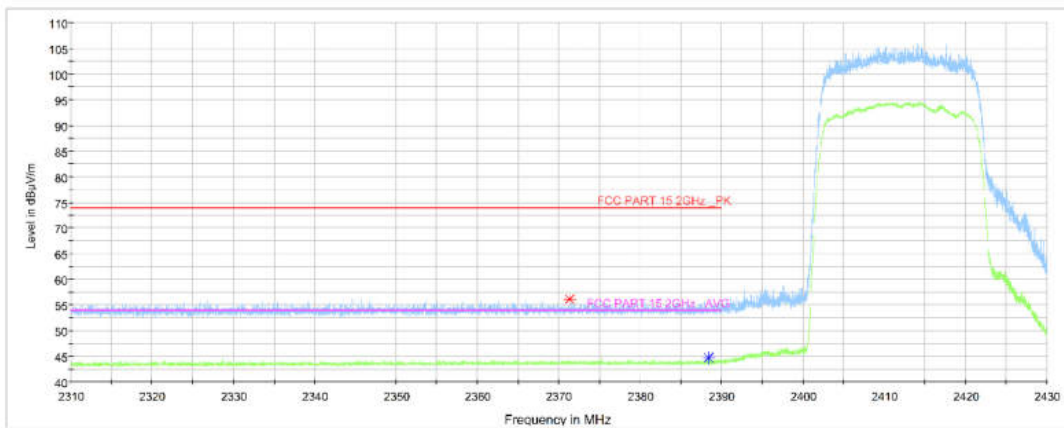


Fig.A.6.2.11 Transmitter Spurious Emission - Radiated (Power): 802.11be-HT20, ch1, MIMO,2.31 GHz - 2.43GHz

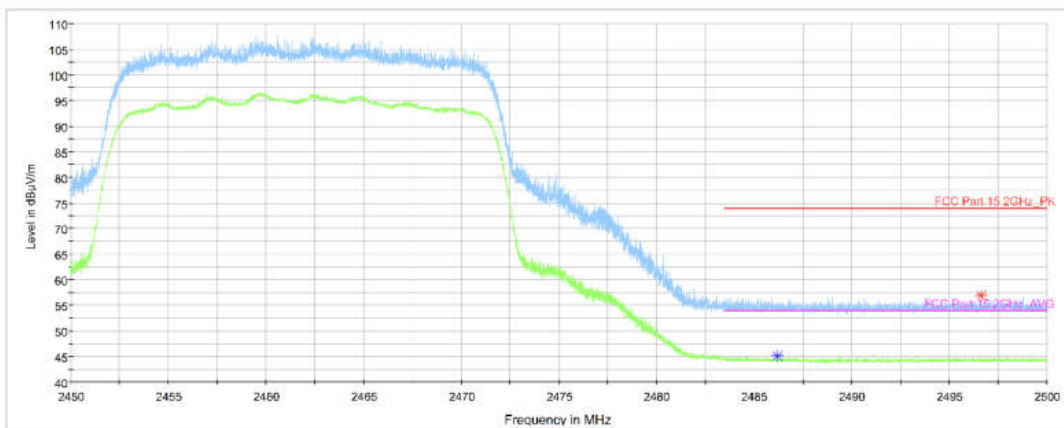


Fig.A.6.2.12 Transmitter Spurious Emission - Radiated (Power): 802.11be-HT20, ch11, MIMO,2.45 GHz - 2.50GHz

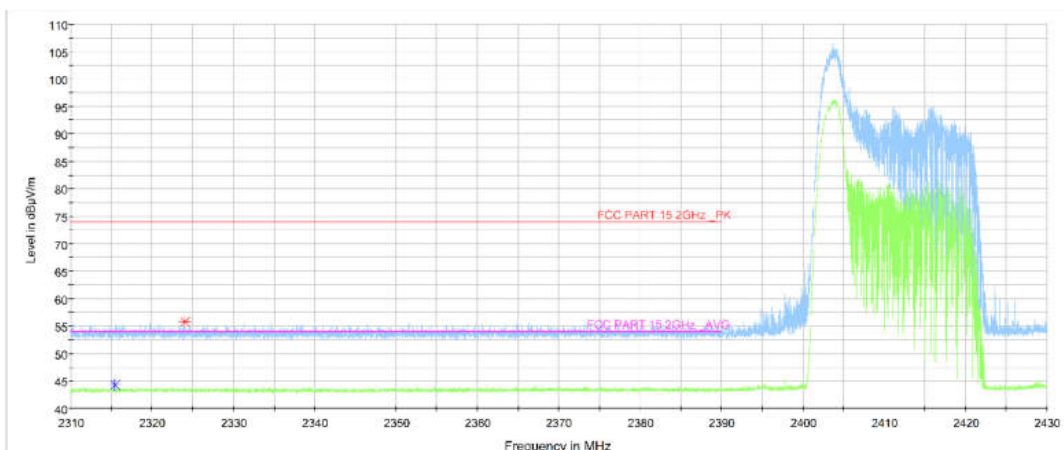


Fig.A.6.2.13 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch1, MIMO, Partial RU, 2.31 GHz - 2.43GHz

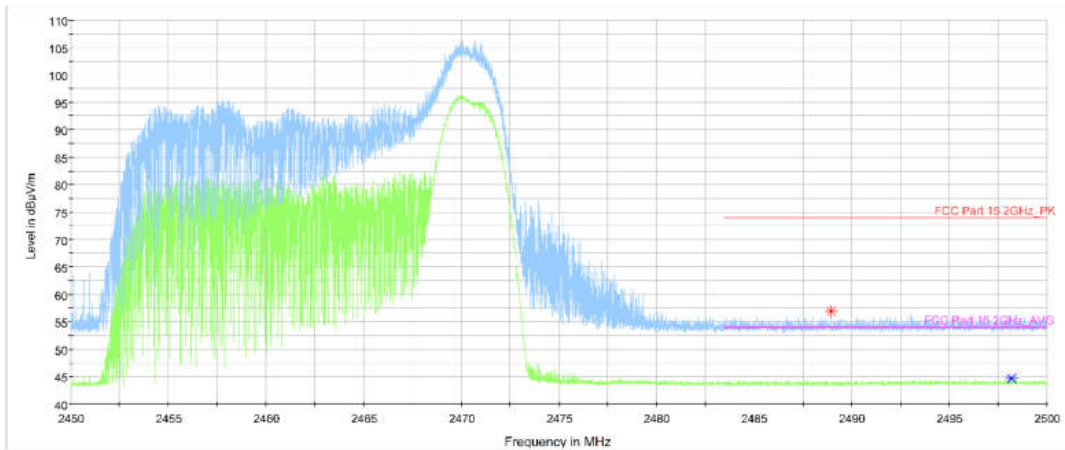


Fig.A.6.2.14 Transmitter Spurious Emission - Radiated (Power): 802.11ax-HT20, ch11, MIMO, Partial RU, 2.45 GHz - 2.50GHz

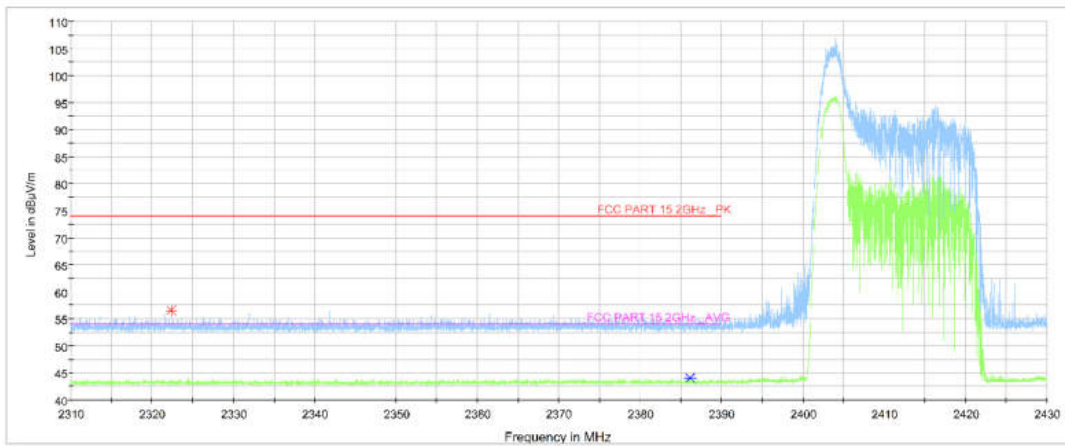


Fig.A.6.2.15 Transmitter Spurious Emission - Radiated (Power): 802.11be-HT20, ch1, MIMO, Partial RU, 2.31 GHz - 2.43GHz

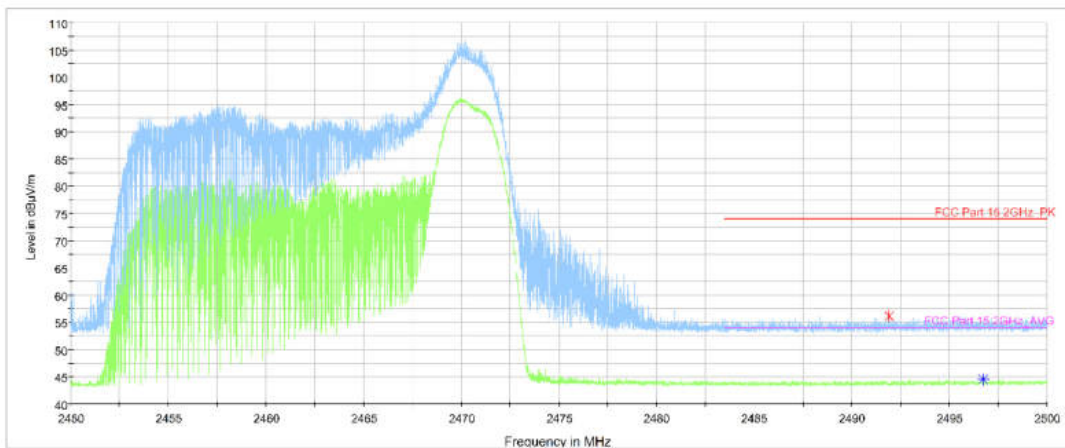


Fig.A.6.2.16 Transmitter Spurious Emission - Radiated (Power): 802.11be-HT20, ch11, MIMO, Partial RU, 2.45 GHz - 2.50GHz

A.8. AC Power-line Conducted Emission

Summary

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section

Method of Measurement:

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

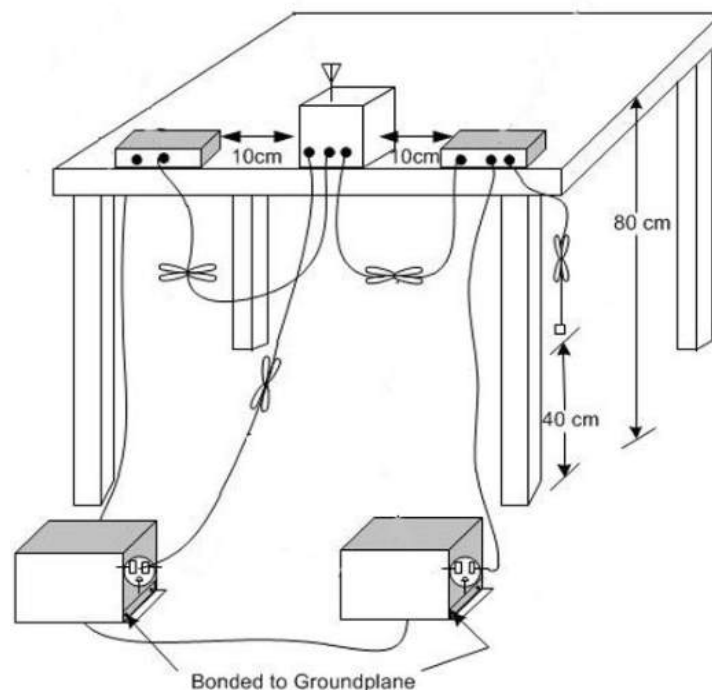
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Test setup



Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.8.1	Fig.A.8.2	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.8.1	Fig.A.8.2	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: Pass
Test graphs as below:

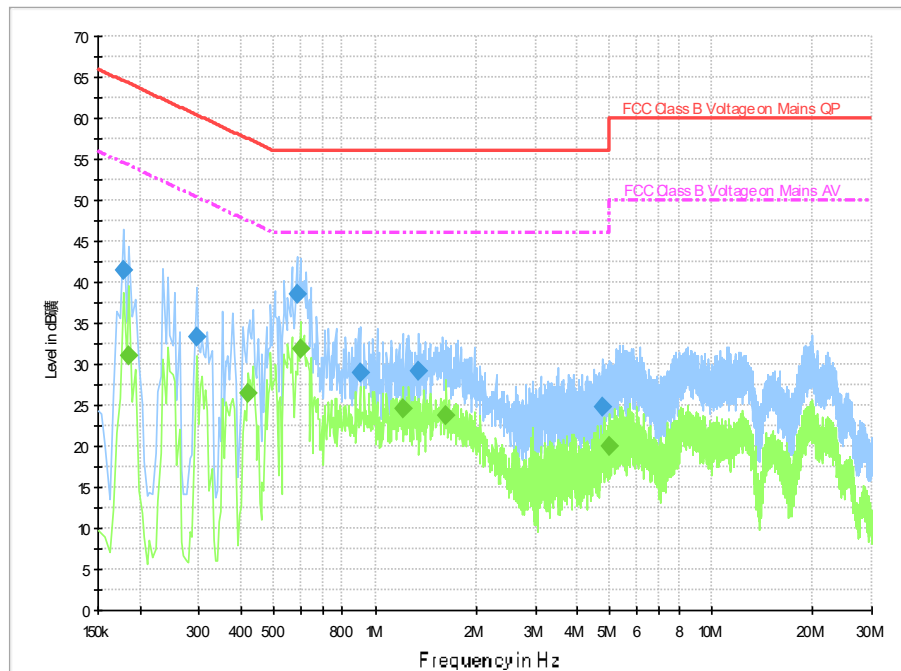


Fig.A.8.1 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.178000	41.4	2000.0	9.000	On	L1	19.9	23.1	64.6	
0.294000	33.4	2000.0	9.000	On	N	19.8	27.0	60.4	
0.586000	38.6	2000.0	9.000	On	N	19.9	17.4	56.0	
0.902000	28.9	2000.0	9.000	On	N	19.8	27.1	56.0	
1.346000	29.2	2000.0	9.000	On	N	19.7	26.8	56.0	
4.726000	24.8	2000.0	9.000	On	N	19.6	31.2	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.186000	31.1	2000.0	9.000	On	N	19.8	23.2	54.2	
0.418000	26.4	2000.0	9.000	On	N	19.9	21.1	47.5	
0.598000	31.9	2000.0	9.000	On	N	19.9	14.2	46.0	
1.206000	24.5	2000.0	9.000	On	N	19.7	21.5	46.0	
1.630000	23.9	2000.0	9.000	On	N	19.7	22.1	46.0	
4.966000	19.9	2000.0	9.000	On	N	19.6	26.1	46.0	

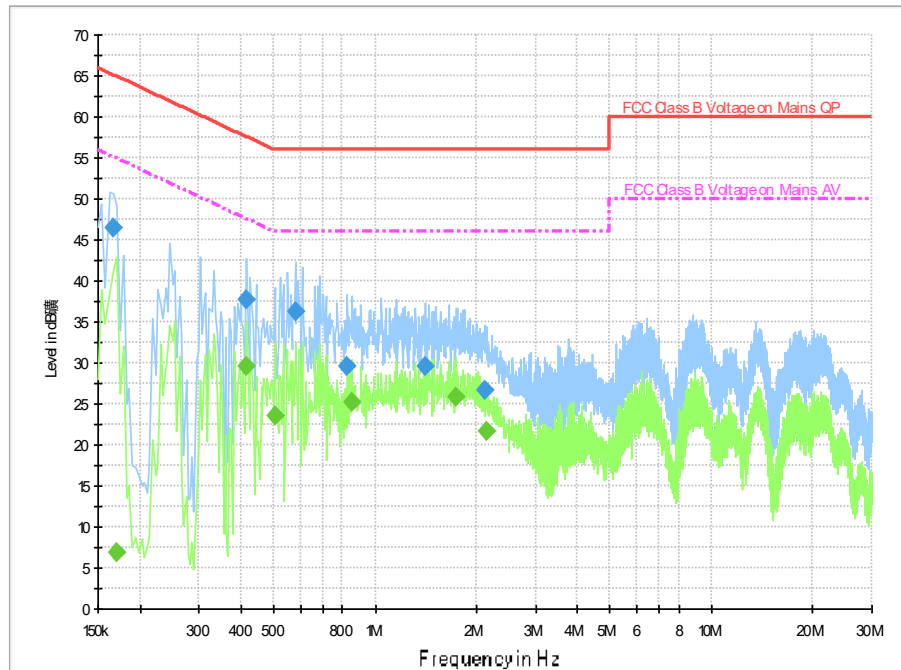


Fig.A.8.2 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.166000	46.4	2000.0	9.000	On	L1	19.9	18.8	65.2	
0.414000	37.8	2000.0	9.000	On	L1	20.0	19.8	57.6	
0.578000	36.3	2000.0	9.000	On	L1	20.0	19.7	56.0	
0.826000	29.6	2000.0	9.000	On	L1	19.9	26.4	56.0	
1.410000	29.5	2000.0	9.000	On	L1	19.9	26.5	56.0	
2.126000	26.6	2000.0	9.000	On	L1	19.8	29.4	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.170000	7.0	2000.0	9.000	On	N	19.8	48.0	55.0	
0.414000	29.5	2000.0	9.000	On	L1	20.0	18.1	47.6	
0.502000	23.6	2000.0	9.000	On	N	19.9	22.4	46.0	
0.854000	25.3	2000.0	9.000	On	L1	19.9	20.7	46.0	
1.734000	25.7	2000.0	9.000	On	L1	19.8	20.3	46.0	
2.154000	21.7	2000.0	9.000	On	L1	19.8	24.3	46.0	



A.9. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT
Beijing, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23rd day of July 2024.



Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

END OF REPORT