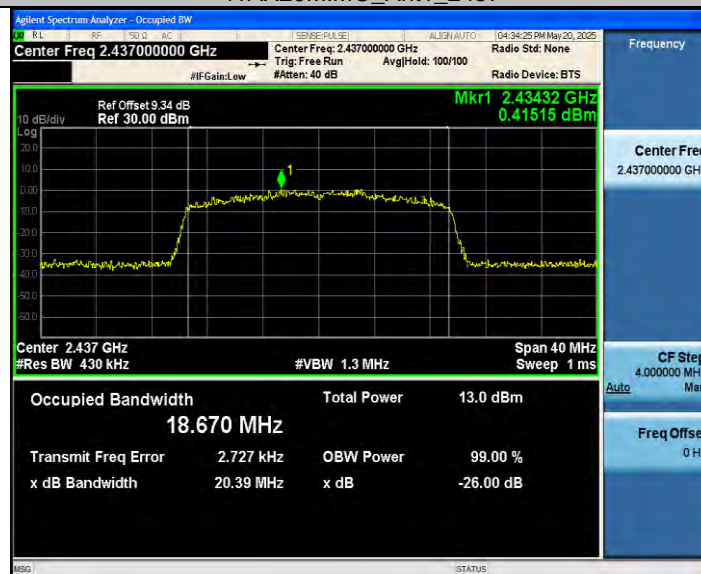




11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



11AX20MIMO_Ant2_2437

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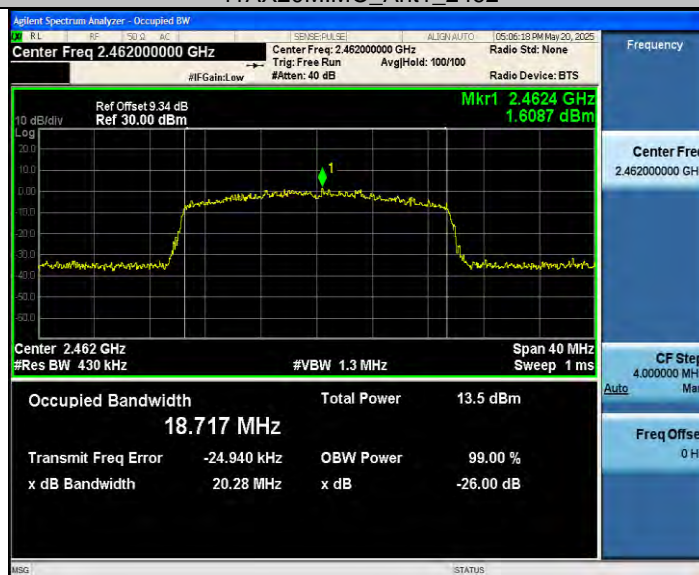
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422

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11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437

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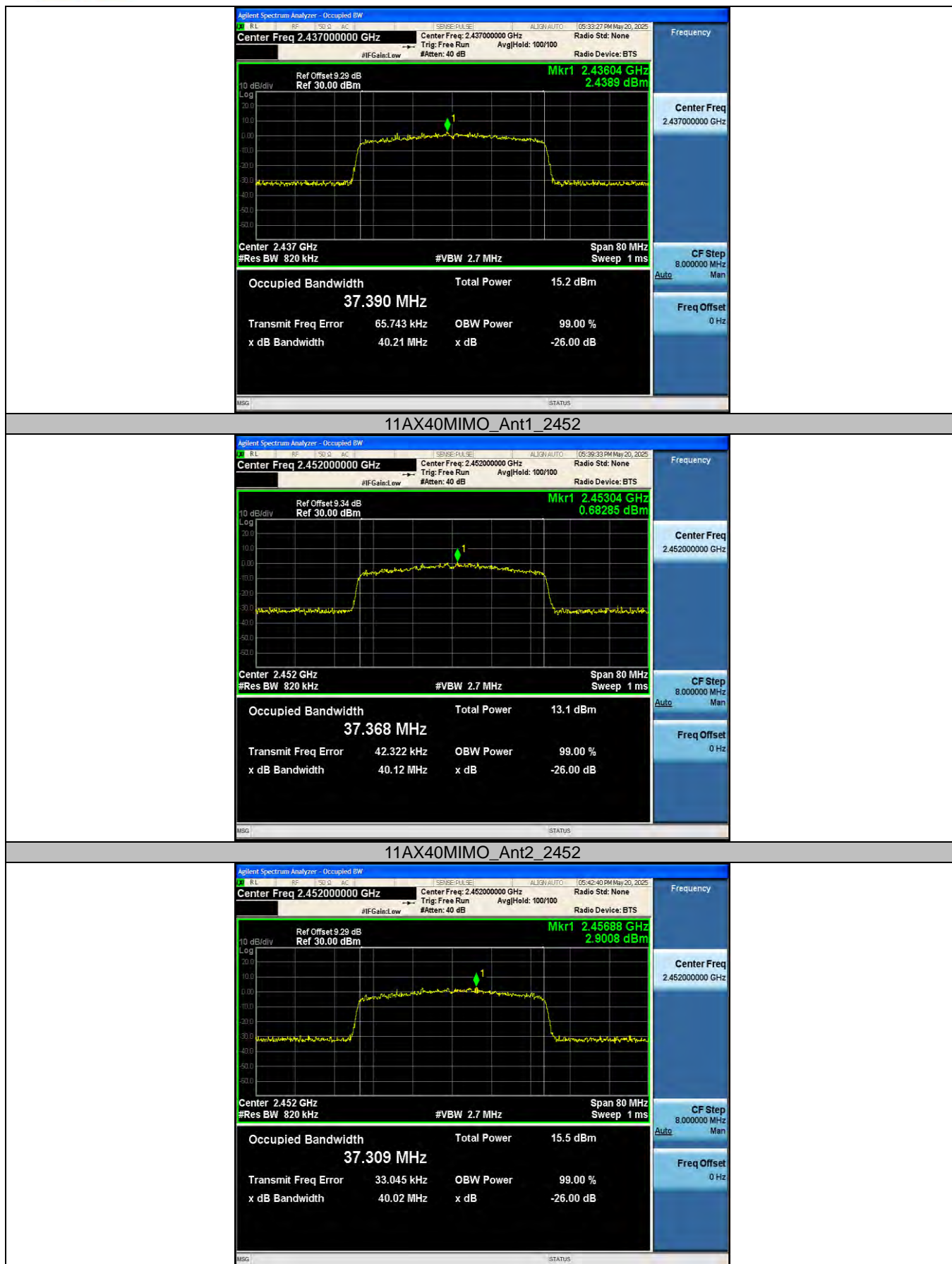
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

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DTS Bandwidth:



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11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412

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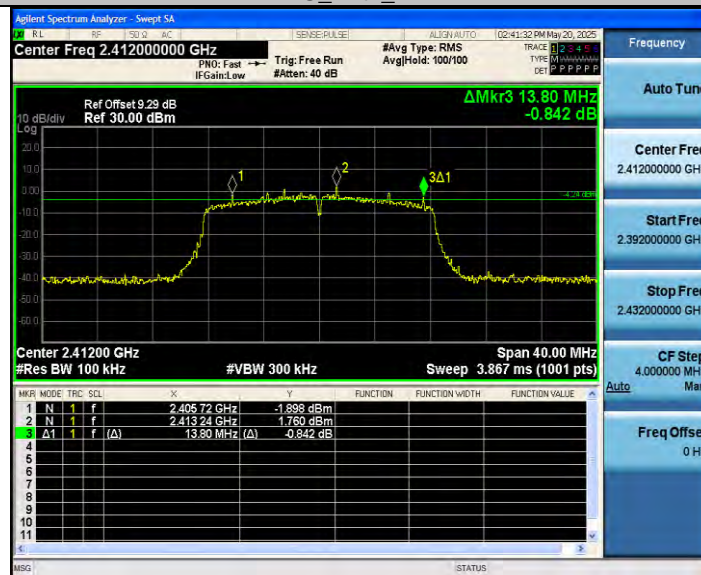
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

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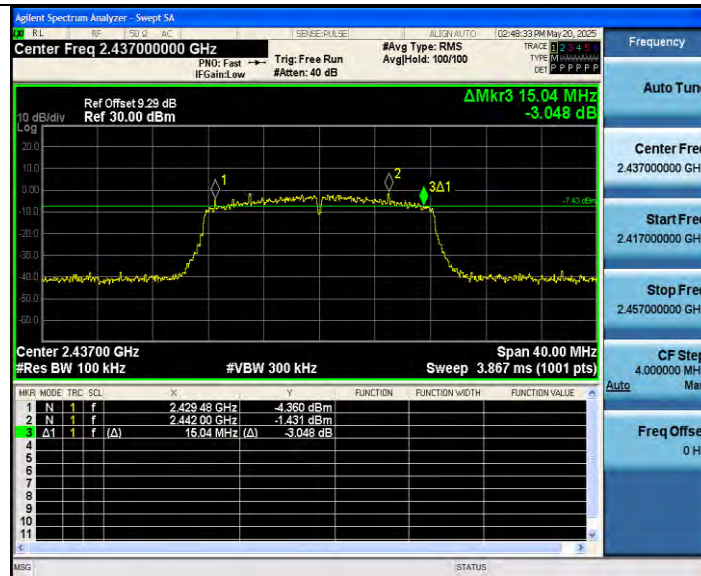
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11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412

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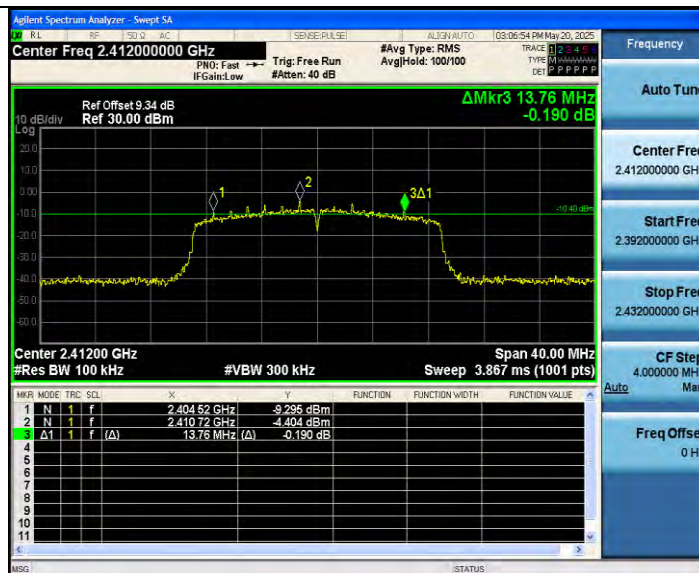
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TRF No: CTC-TR-057_A2



11N20MIMO_Ant2_2412



11N20MIMO_Ant1_2437



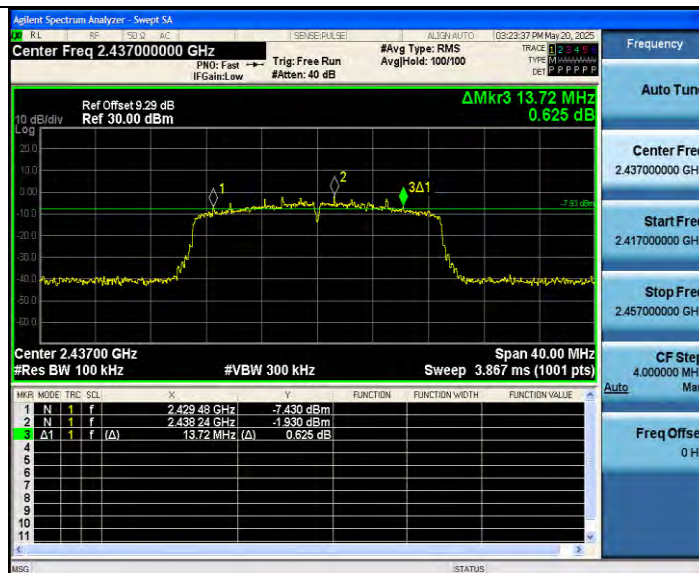
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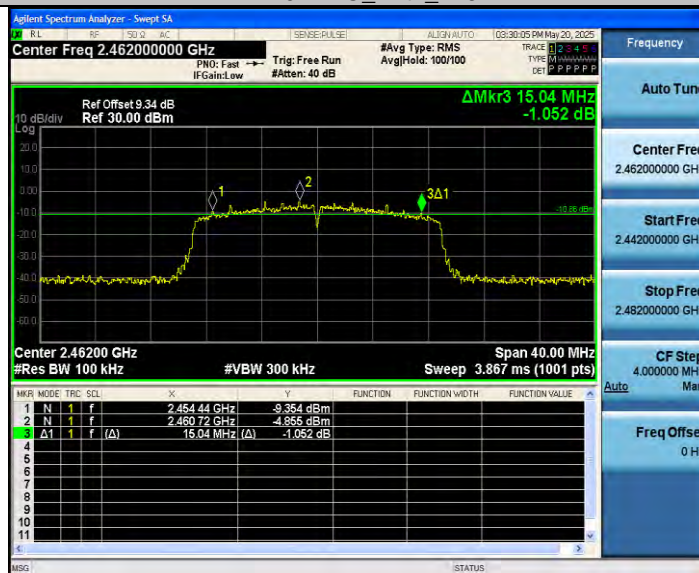
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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422

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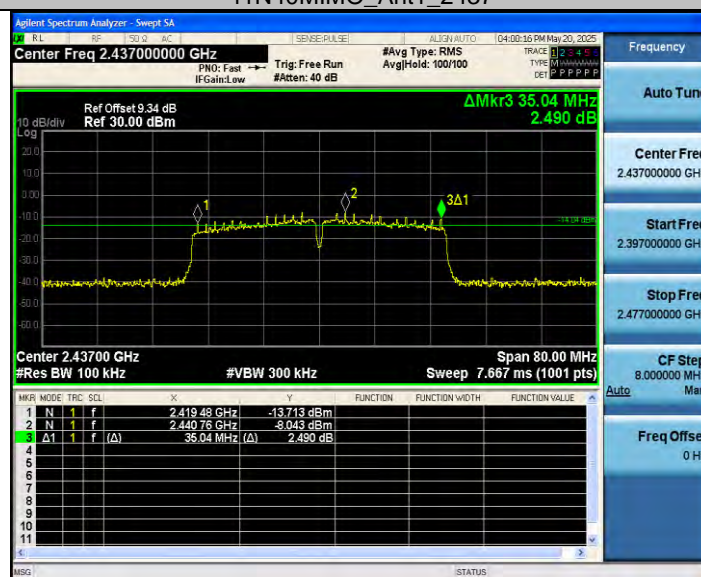
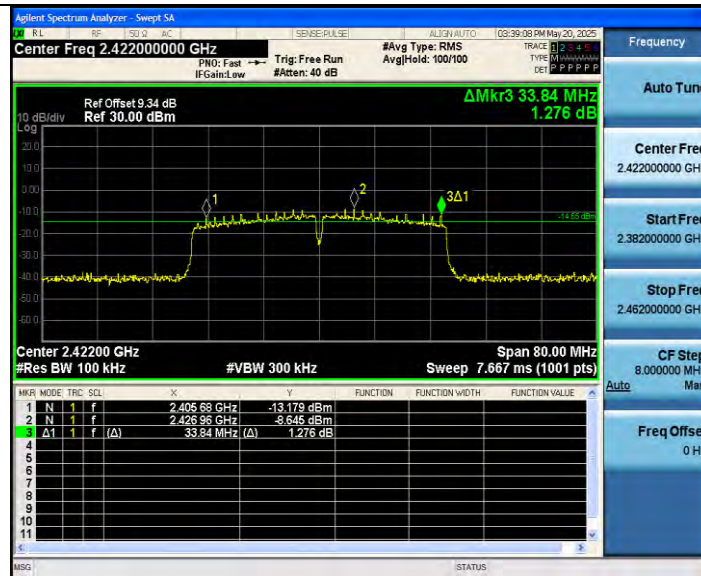
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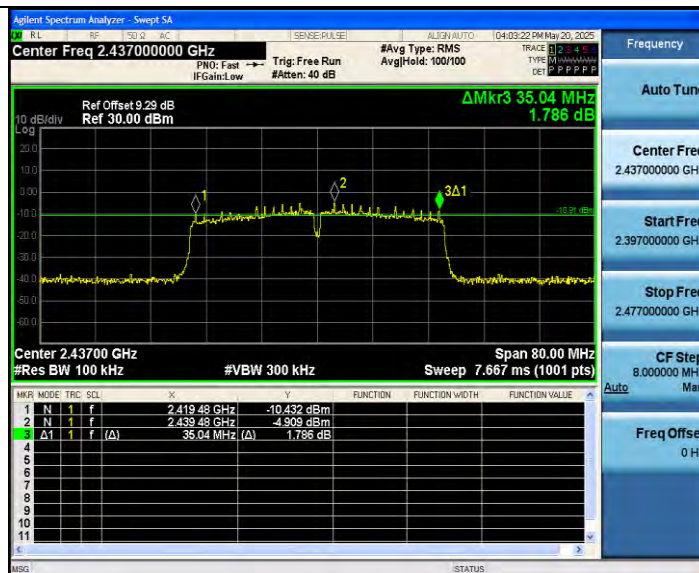
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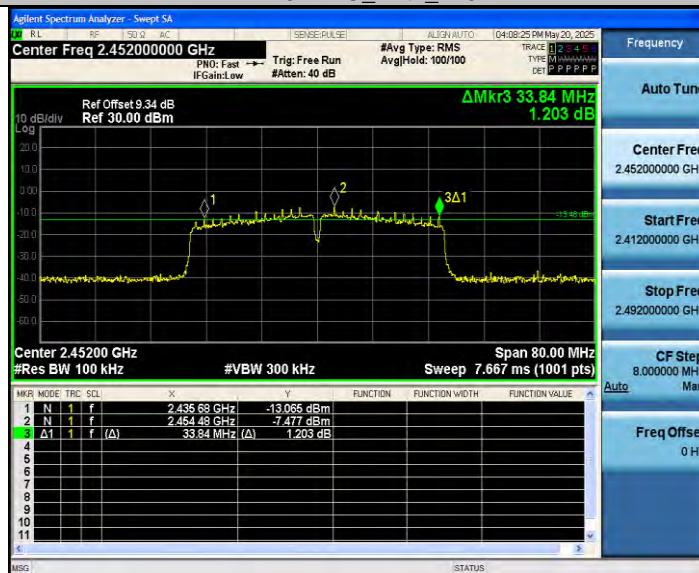
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11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412

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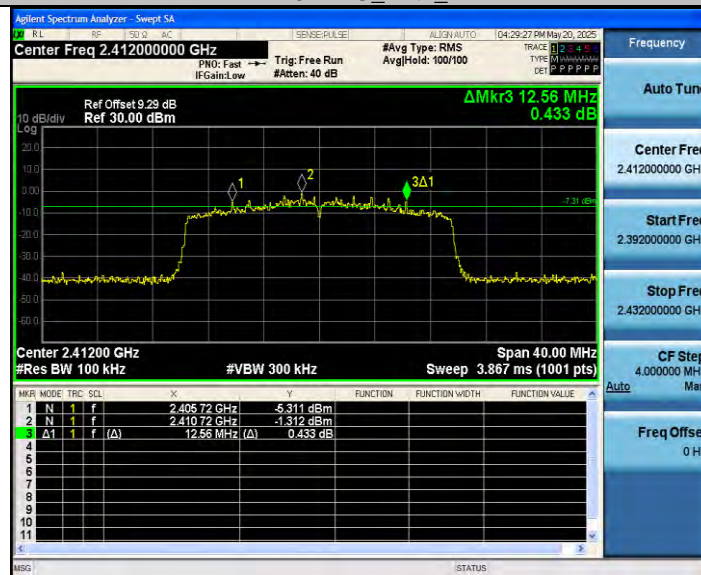
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11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



11AX20MIMO_Ant2_2437

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11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422

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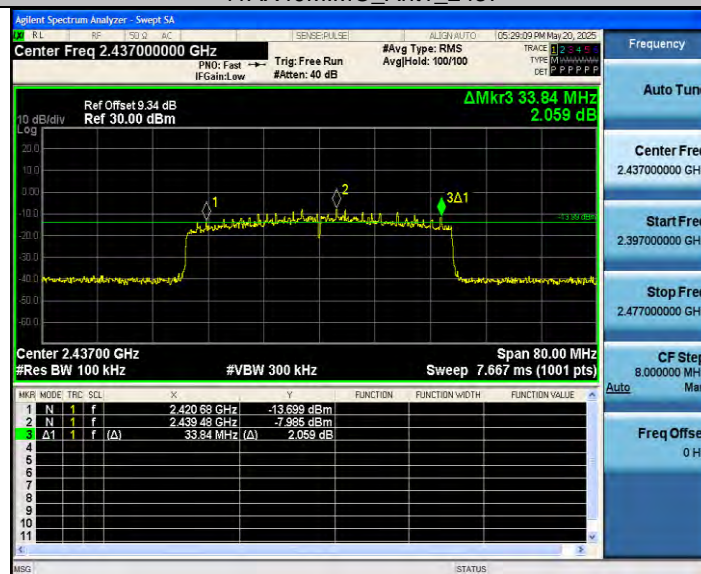
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11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437

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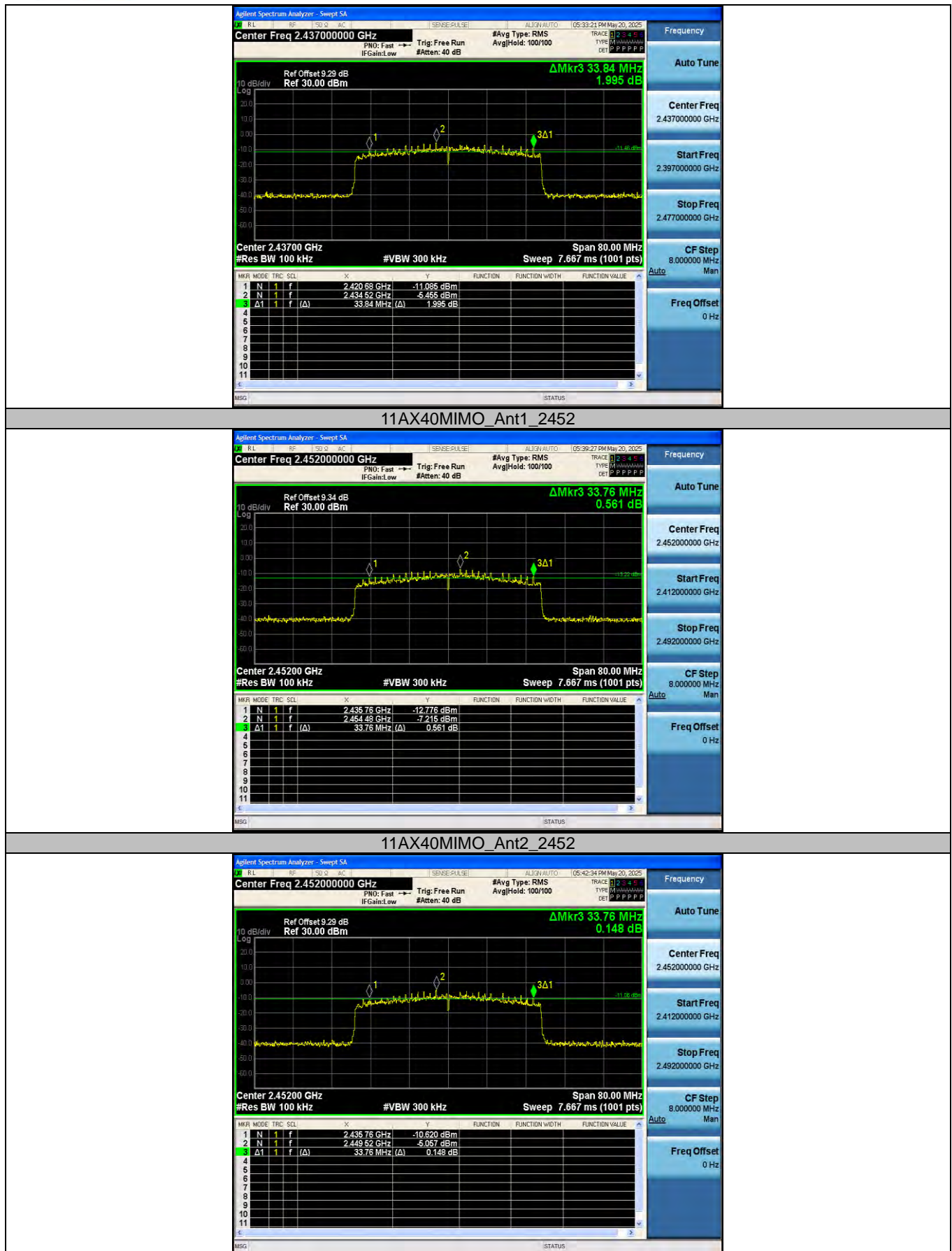
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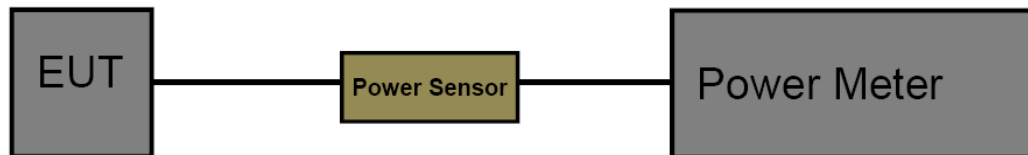
3.6. Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	17.58	≤28.5	PASS
	Ant2	2412	18.40	≤28.5	PASS
	Ant1	2437	18.04	≤28.5	PASS
	Ant2	2437	18.44	≤28.5	PASS
	Ant1	2462	18.35	≤28.5	PASS
	Ant2	2462	17.72	≤28.5	PASS
11G	Ant1	2412	17.32	≤28.5	PASS
	Ant2	2412	18.36	≤28.5	PASS
	Ant1	2437	17.55	≤28.5	PASS
	Ant2	2437	17.73	≤28.5	PASS
	Ant1	2462	17.99	≤28.5	PASS
	Ant2	2462	17.82	≤28.5	PASS
11N20MIMO	Ant1	2412	12.35	≤28.5	PASS
	Ant2	2412	15.81	≤28.5	PASS
	total	2412	17.43	≤28.5	PASS
	Ant1	2437	12.74	≤28.5	PASS
	Ant2	2437	15.29	≤28.5	PASS
	total	2437	17.21	≤28.5	PASS
	Ant1	2462	13.51	≤28.5	PASS
	Ant2	2462	15.84	≤28.5	PASS
11N40MIMO	total	2462	17.84	≤28.5	PASS
	Ant1	2422	11.97	≤28.5	PASS
	Ant2	2422	15.18	≤28.5	PASS
	total	2422	16.88	≤28.5	PASS
	Ant1	2437	12.35	≤28.5	PASS
	Ant2	2437	15.06	≤28.5	PASS
	total	2437	16.92	≤28.5	PASS
	Ant1	2452	12.67	≤28.5	PASS
11AX20MIMO	Ant2	2452	15.27	≤28.5	PASS
	total	2452	17.17	≤28.5	PASS
	Ant1	2412	12.79	≤28.5	PASS
	Ant2	2412	15.50	≤28.5	PASS
	total	2412	17.36	≤28.5	PASS
	Ant1	2437	13.31	≤28.5	PASS
	Ant2	2437	16.18	≤28.5	PASS
	total	2437	17.99	≤28.5	PASS
11AX40MIMO	Ant1	2462	13.45	≤28.5	PASS
	Ant2	2462	15.72	≤28.5	PASS
	total	2462	17.74	≤28.5	PASS
	Ant1	2422	12.34	≤28.5	PASS
	Ant2	2422	15.36	≤28.5	PASS
	total	2422	17.12	≤28.5	PASS
	Ant1	2437	12.65	≤28.5	PASS
	Ant2	2437	15.12	≤28.5	PASS
11AX40MIMO	total	2437	17.07	≤28.5	PASS
	Ant1	2452	13.03	≤28.5	PASS
	Ant2	2452	15.38	≤28.5	PASS
	total	2452	17.37	≤28.5	PASS



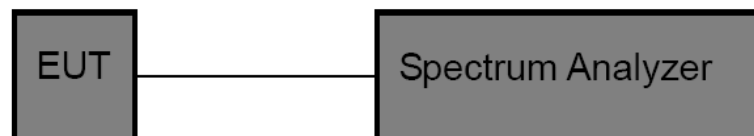
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to OCB channel center frequency.
Set the span to 1.5 times the OCB bandwidth.
Set the RBW to: 3 kHz.
Set the VBW to: 10 kHz.
Detector: average.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

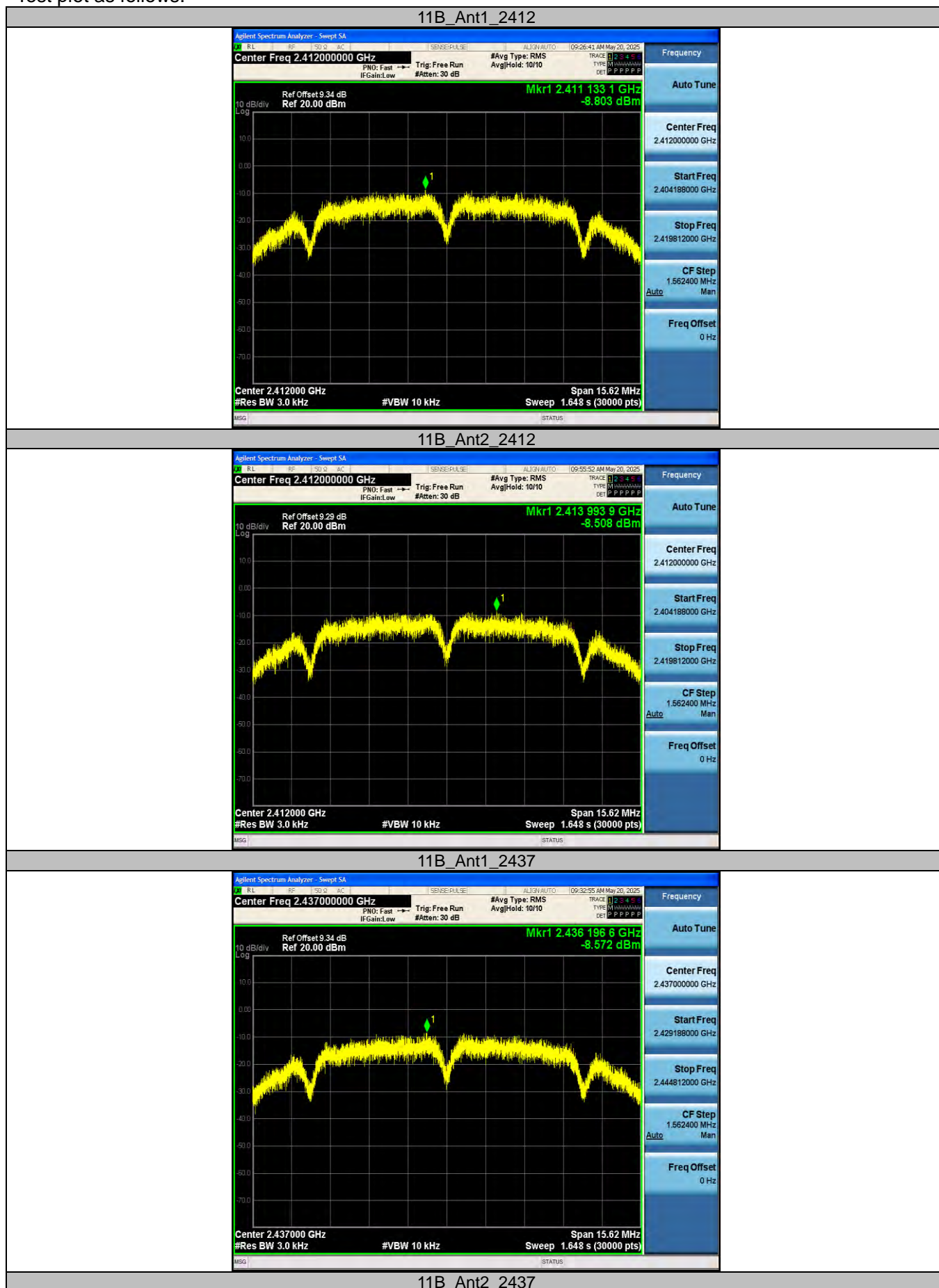
Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.80	≤6.5	PASS
	Ant2	2412	-8.51	≤6.5	PASS
	Ant1	2437	-8.57	≤6.5	PASS
	Ant2	2437	-8.40	≤6.5	PASS
	Ant1	2462	-8.28	≤6.5	PASS
	Ant2	2462	-8.59	≤6.5	PASS
11G	Ant1	2412	-14.68	≤6.5	PASS
	Ant2	2412	-13.30	≤6.5	PASS
	Ant1	2437	-15.45	≤6.5	PASS
	Ant2	2437	-15.22	≤6.5	PASS
	Ant1	2462	-14.86	≤6.5	PASS
	Ant2	2462	-14.81	≤6.5	PASS
11N20MIMO	Ant1	2412	-19.60	≤6.5	PASS
	Ant2	2412	-15.91	≤6.5	PASS
	total	2412	-14.36	≤6.5	PASS
	Ant1	2437	-19.67	≤6.5	PASS
	Ant2	2437	-15.86	≤6.5	PASS
	total	2437	-14.35	≤6.5	PASS
	Ant1	2462	-18.06	≤6.5	PASS
	Ant2	2462	-15.66	≤6.5	PASS
11N40MIMO	total	2462	-13.69	≤6.5	PASS
	Ant1	2422	-22.22	≤6.5	PASS
	Ant2	2422	-19.60	≤6.5	PASS
	total	2422	-17.71	≤6.5	PASS
	Ant1	2437	-21.85	≤6.5	PASS
	Ant2	2437	-19.46	≤6.5	PASS
	total	2437	-17.48	≤6.5	PASS
	Ant1	2452	-21.49	≤6.5	PASS
11AX20MIMO	Ant2	2452	-19.46	≤6.5	PASS
	total	2452	-17.35	≤6.5	PASS
	Ant1	2412	-19.41	≤6.5	PASS
	Ant2	2412	-16.39	≤6.5	PASS
	total	2412	-14.63	≤6.5	PASS
	Ant1	2437	-19.04	≤6.5	PASS
	Ant2	2437	-16.07	≤6.5	PASS
	total	2437	-14.30	≤6.5	PASS
11AX40MIMO	Ant1	2462	-18.23	≤6.5	PASS
	Ant2	2462	-16.71	≤6.5	PASS
	total	2462	-14.39	≤6.5	PASS
	Ant1	2422	-23.79	≤6.5	PASS
	Ant2	2422	-20.63	≤6.5	PASS
	total	2422	-18.92	≤6.5	PASS
	Ant1	2437	-23.14	≤6.5	PASS
	Ant2	2437	-20.79	≤6.5	PASS
	total	2437	-18.80	≤6.5	PASS
	Ant1	2452	-22.97	≤6.5	PASS
	Ant2	2452	-20.50	≤6.5	PASS
	total	2452	-18.55	≤6.5	PASS



Test plot as follows:



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11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412

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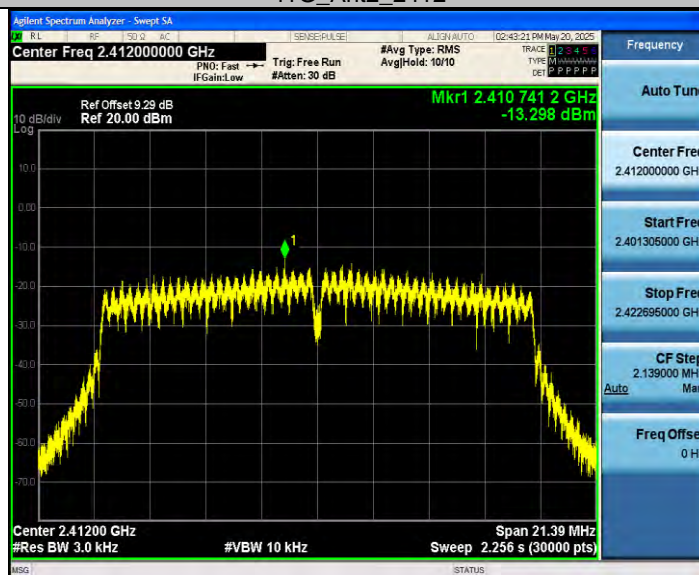
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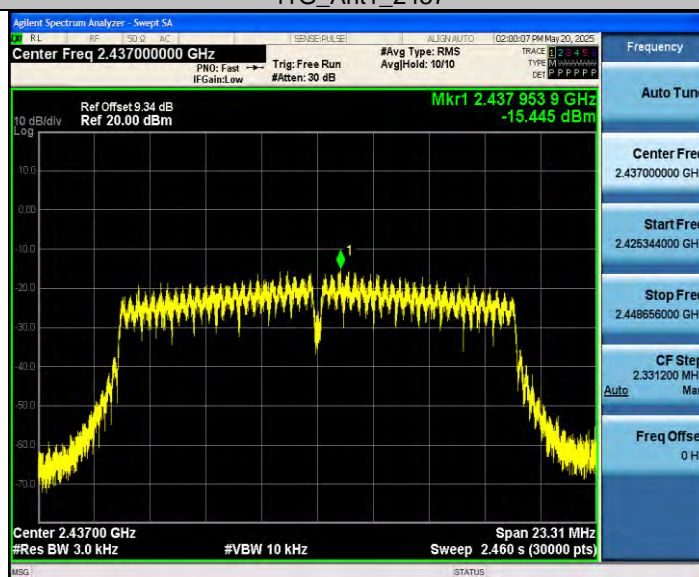
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11G_Ant2_2412



11G_Ant1_2437



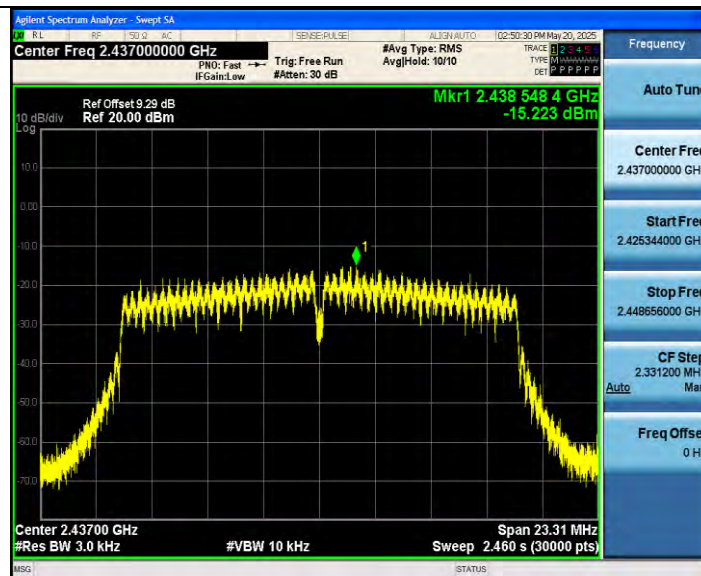
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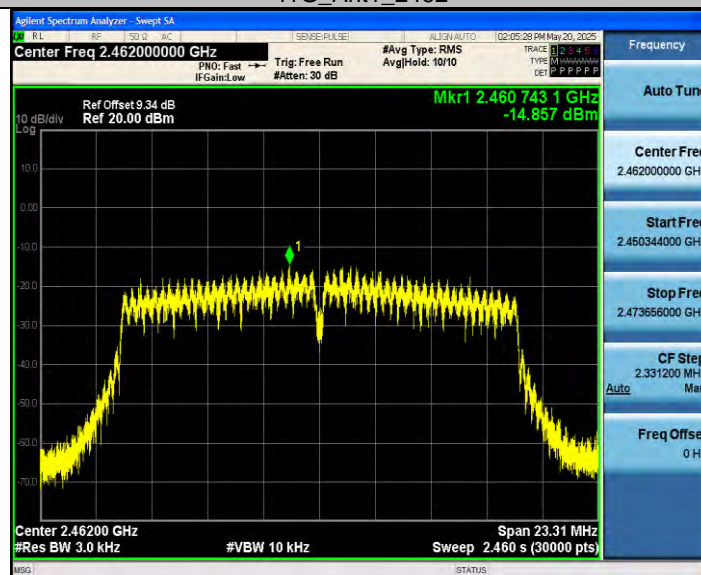
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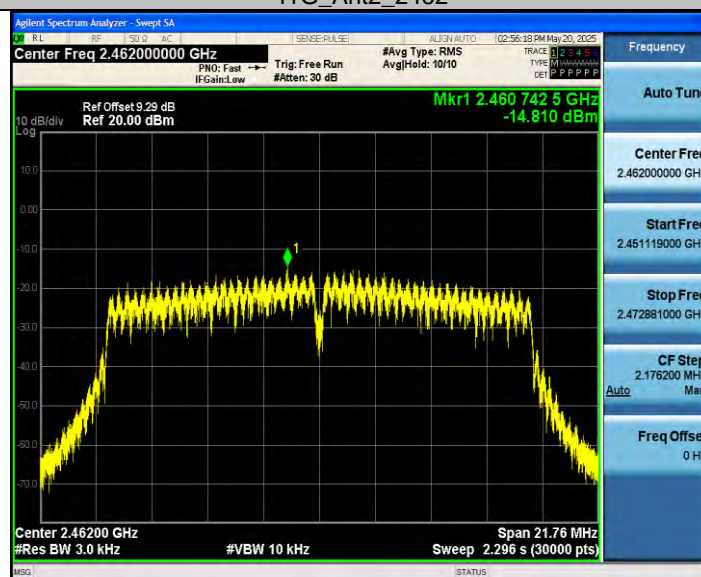
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11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412

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11N20MIMO_Ant2_2437

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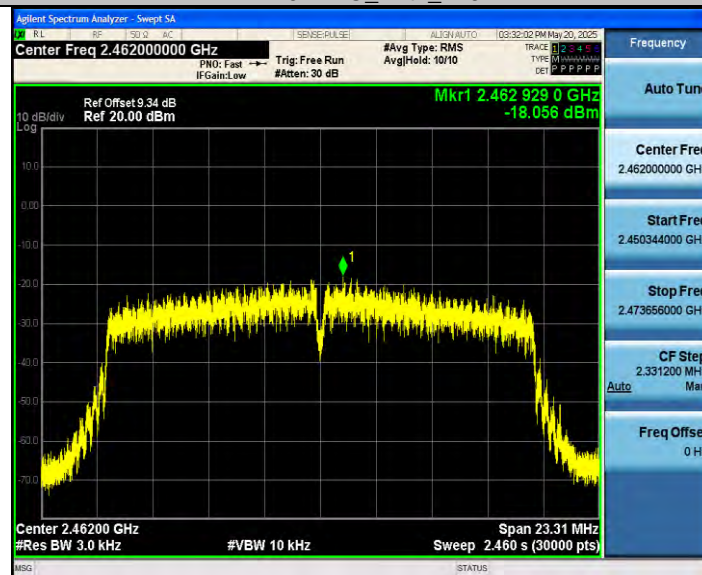
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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11N20MIMO_Ant1_2462



11N20MIMO_Ant2_2462



11N40MIMO_Ant1_2422

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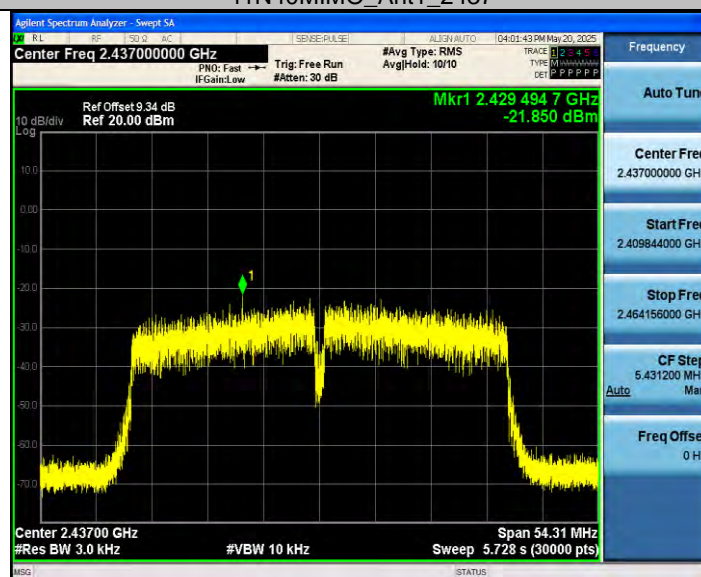
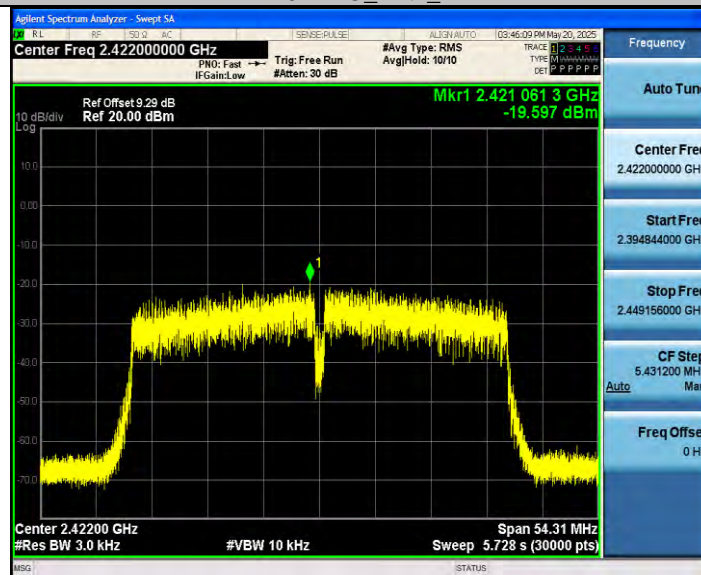
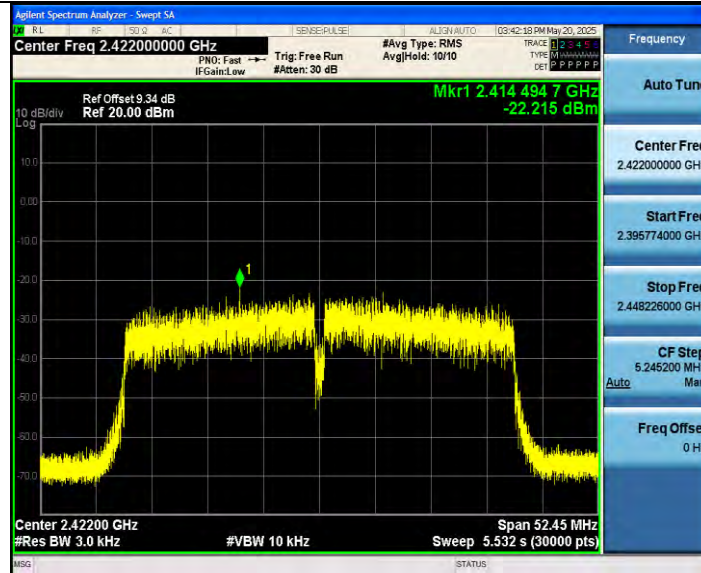
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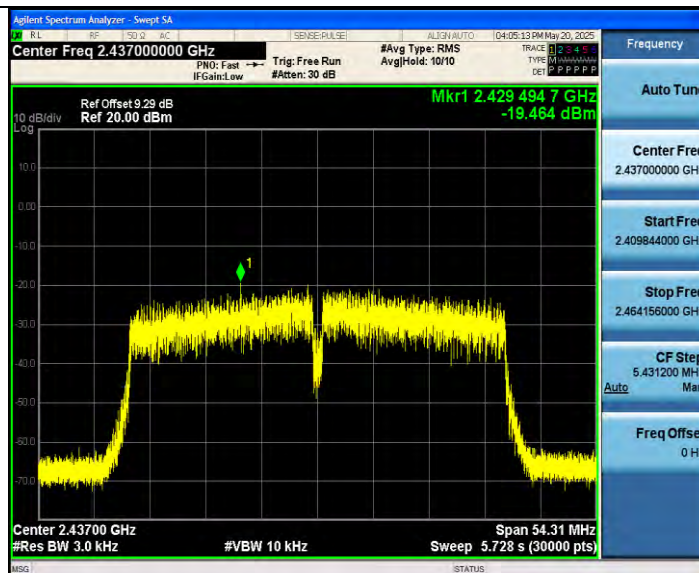
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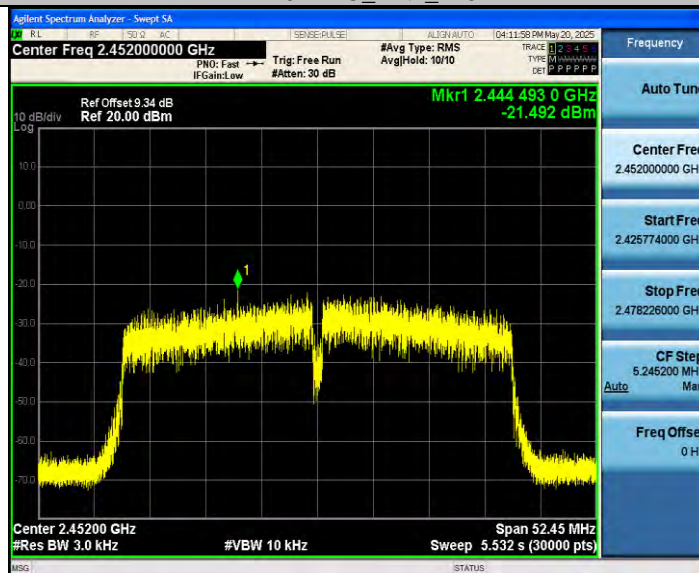
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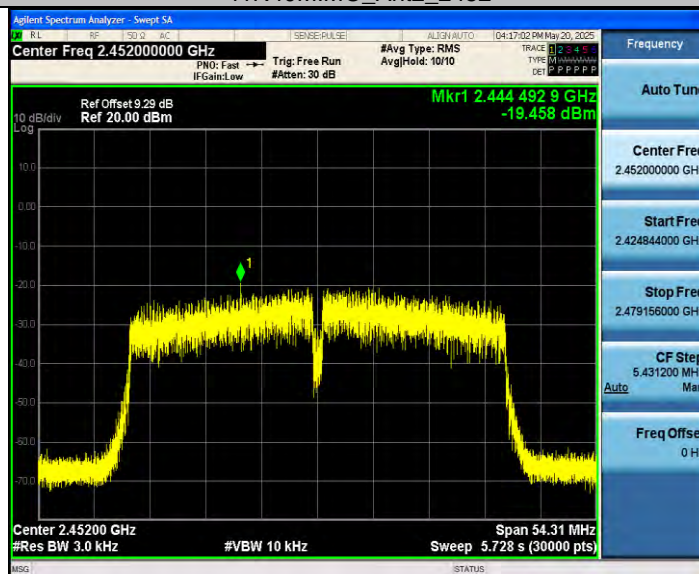
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11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412

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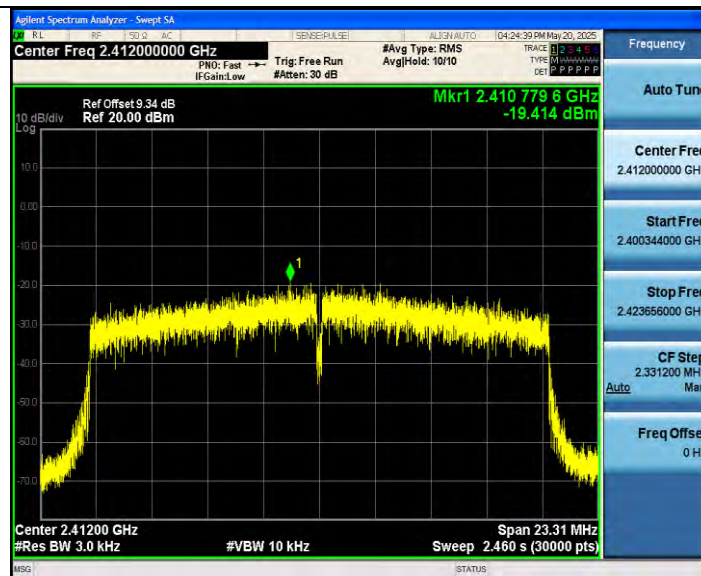
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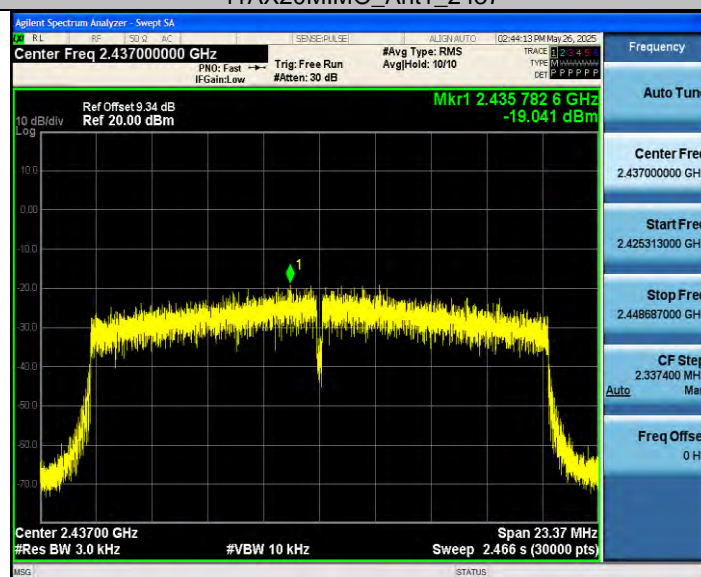
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11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



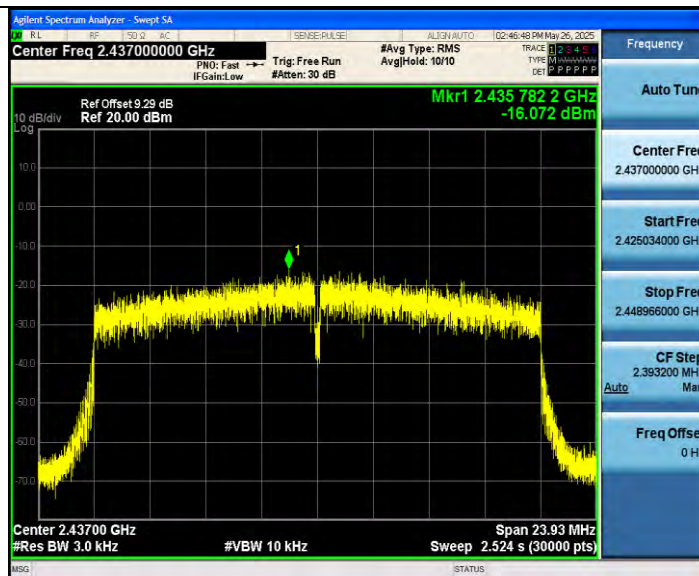
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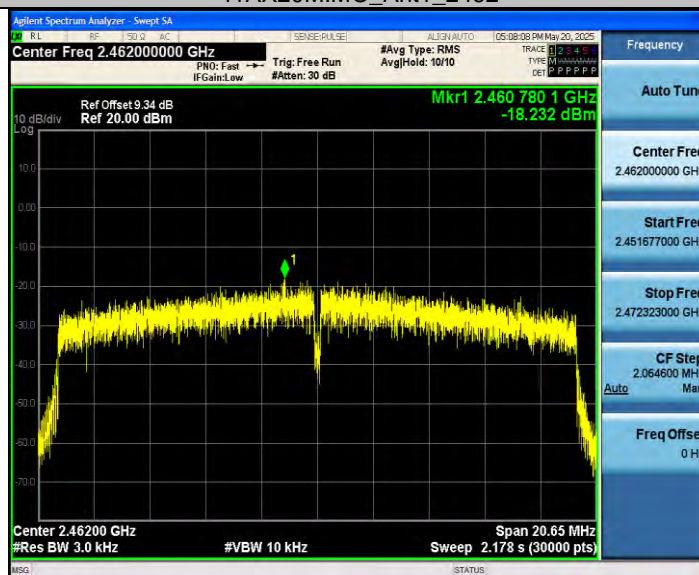
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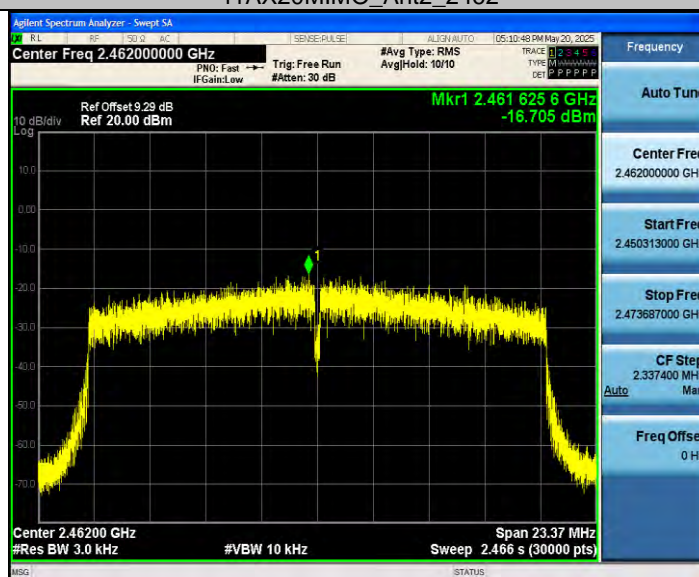
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11AX20MIMO_Ant1_2462



11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422

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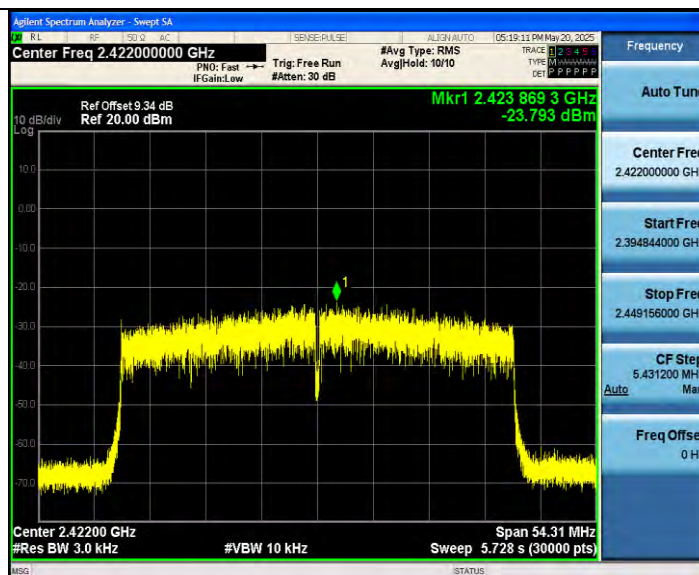
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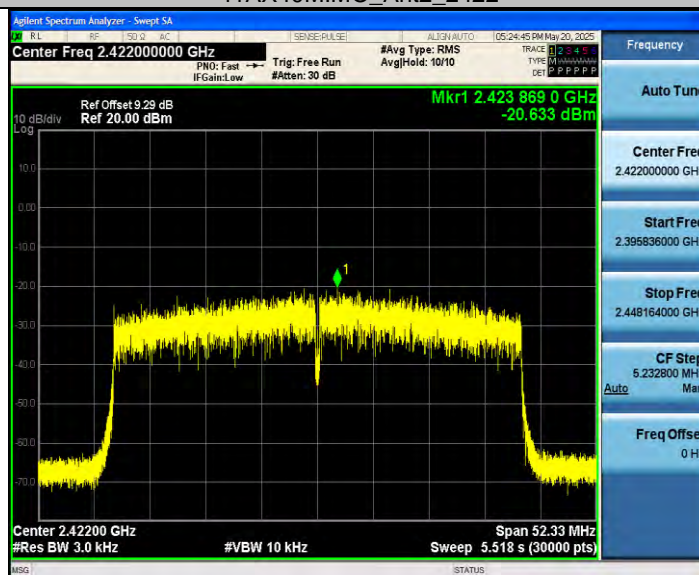
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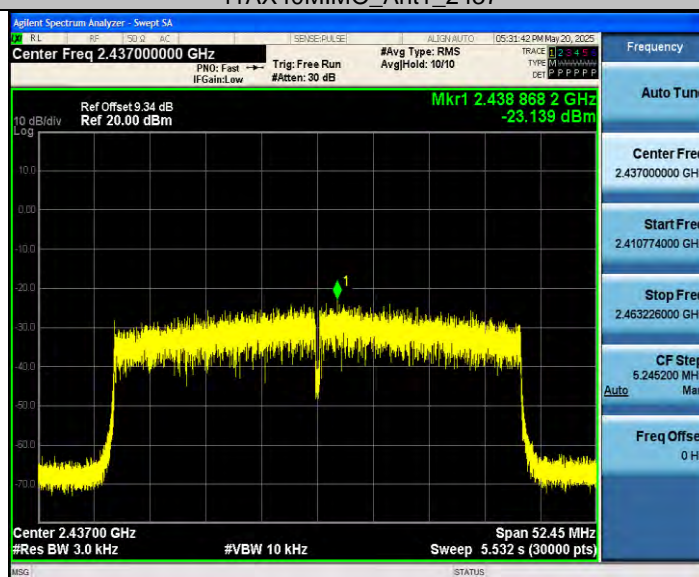
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11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437



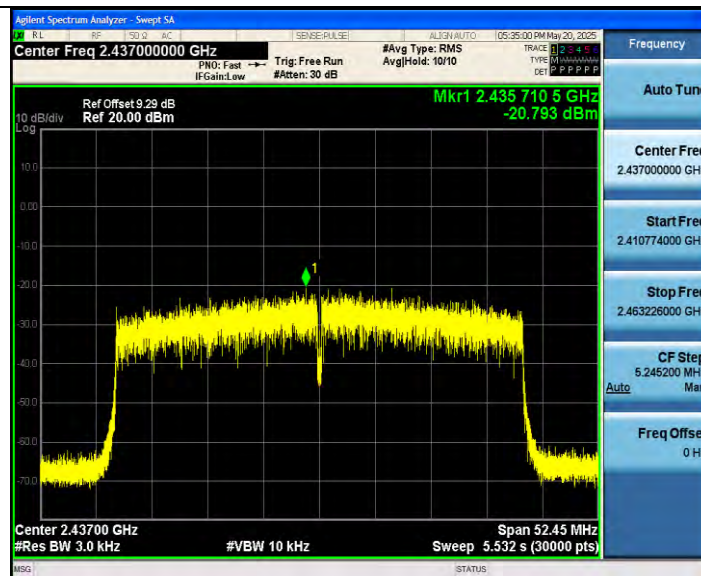
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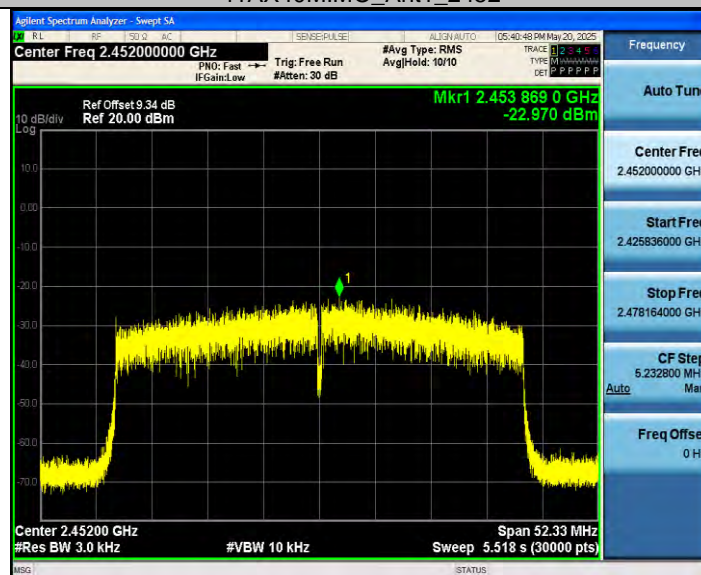
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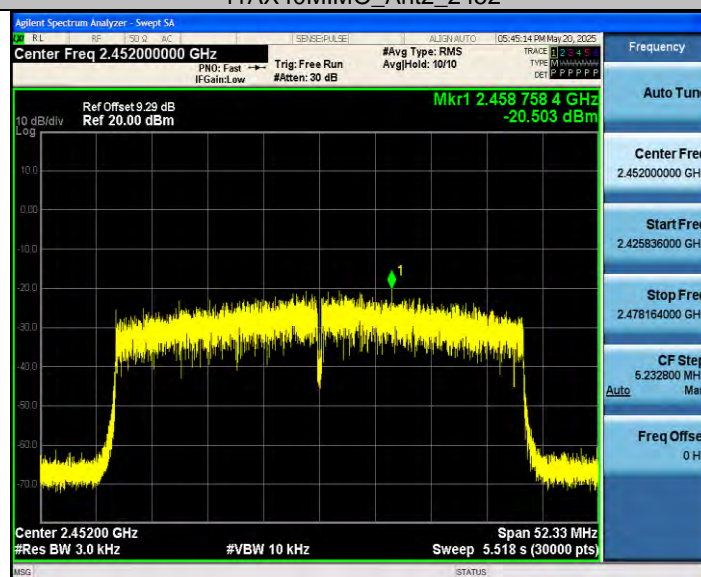
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11AX40MIMO_Ant1_2452



11AX40MIMO_Ant2_2452



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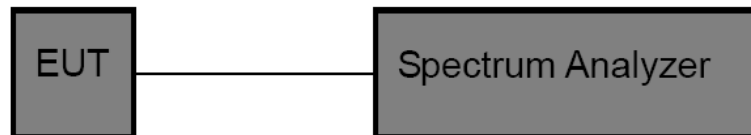


3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 8MHz.
Set the VBW to 8MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
11B	Ant1	2412	8.10	8.11	99.88	0.12	1
	Ant2	2412	8.09	8.10	99.88	0.12	1
	Ant1	2437	8.10	8.10	100.00	0.12	1
	Ant2	2437	8.09	8.10	99.88	0.12	1
	Ant1	2462	8.09	8.10	99.88	0.12	1
	Ant2	2462	8.10	8.11	99.88	0.12	1
11G	Ant1	2412	1.36	1.37	99.27	0.74	1
	Ant2	2412	1.36	1.37	99.27	0.74	1
	Ant1	2437	1.36	1.37	99.27	0.74	1
	Ant2	2437	1.36	1.37	99.27	0.74	1
	Ant1	2462	1.36	1.37	99.27	0.74	1
	Ant2	2462	1.36	1.37	99.27	0.74	1
11N20MIMO	Ant1	2412	1.15	1.16	99.14	0.87	1
	Ant2	2412	1.15	1.16	99.14	0.87	1
	Ant1	2437	1.15	1.16	99.14	0.87	1
	Ant2	2437	1.15	1.16	99.14	0.87	1
	Ant1	2462	1.15	1.16	99.14	0.87	1
	Ant2	2462	1.15	1.15	100.00	0.87	1
11N40MIMO	Ant1	2422	0.57	0.58	98.28	1.75	3
	Ant2	2422	0.57	0.58	98.28	1.75	3
	Ant1	2437	0.57	0.58	98.28	1.75	3
	Ant2	2437	0.57	0.58	98.28	1.75	3
	Ant1	2452	0.57	0.58	98.28	1.75	3
	Ant2	2452	0.57	0.58	98.28	1.75	3
11AX20MIMO	Ant1	2412	0.99	1.00	99.00	1.01	3
	Ant2	2412	0.99	1.00	99.00	1.01	3
	Ant1	2437	0.98	0.99	98.99	1.02	3
	Ant2	2437	0.99	1.00	99.00	1.01	3
	Ant1	2462	0.99	0.99	100.00	1.01	3
	Ant2	2462	0.99	1.00	99.00	1.01	3
11AX40MIMO	Ant1	2422	0.52	0.53	98.11	1.92	3
	Ant2	2422	0.52	0.52	100.00	1.92	3
	Ant1	2437	0.52	0.53	98.11	1.92	3
	Ant2	2437	0.52	0.53	98.11	1.92	3
	Ant1	2452	0.52	0.53	98.11	1.92	3
	Ant2	2452	0.52	0.53	98.11	1.92	3



Test Graphs



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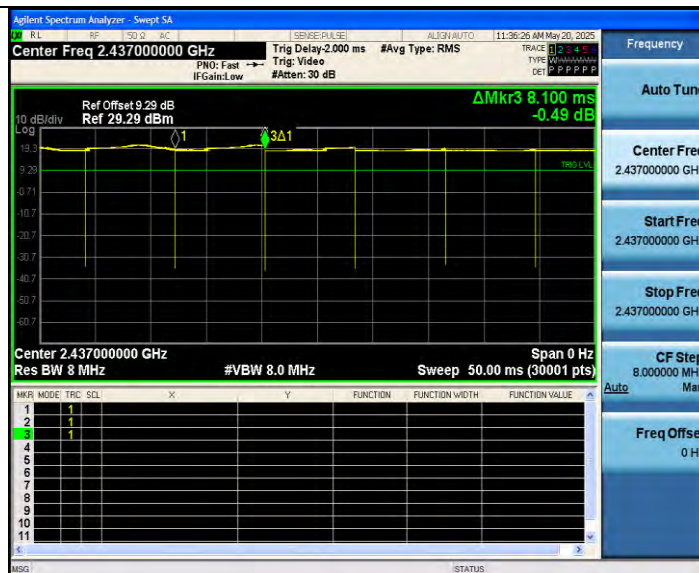
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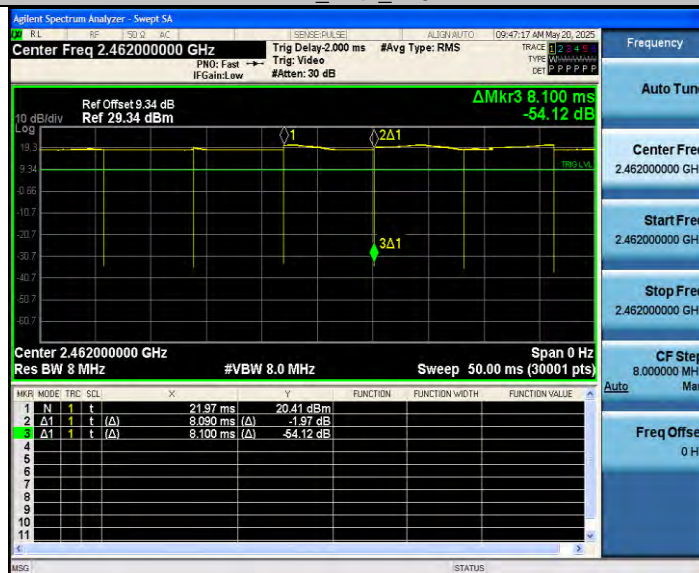
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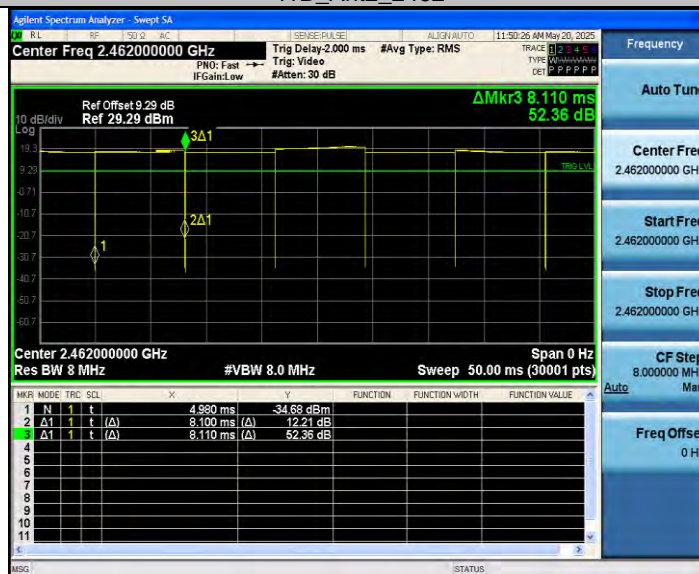
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11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412

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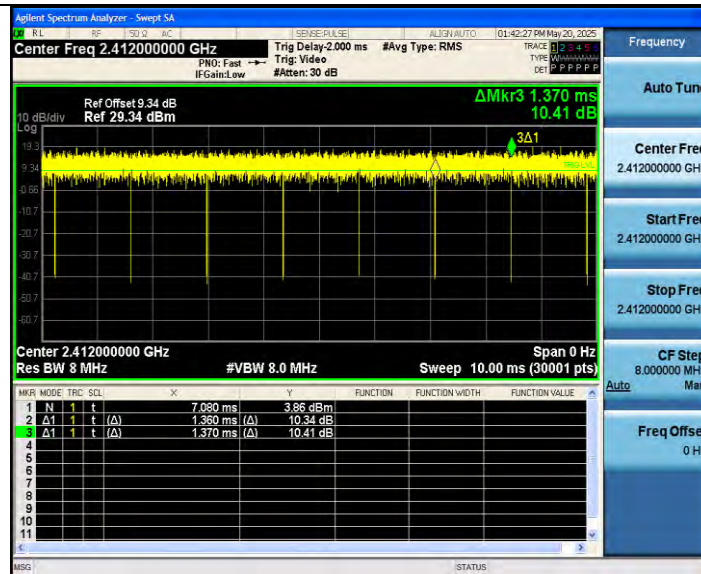
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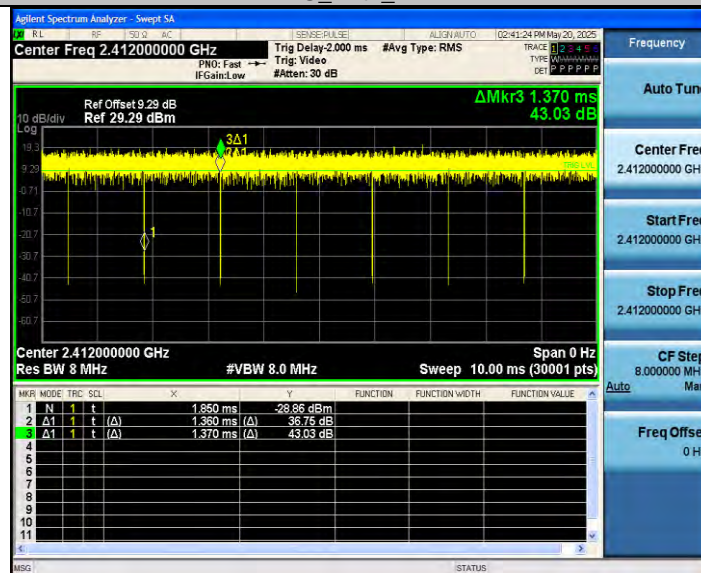
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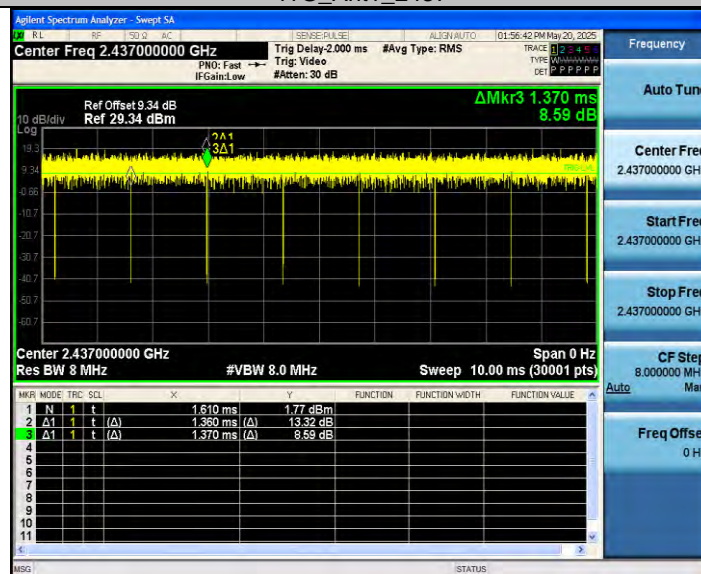
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11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

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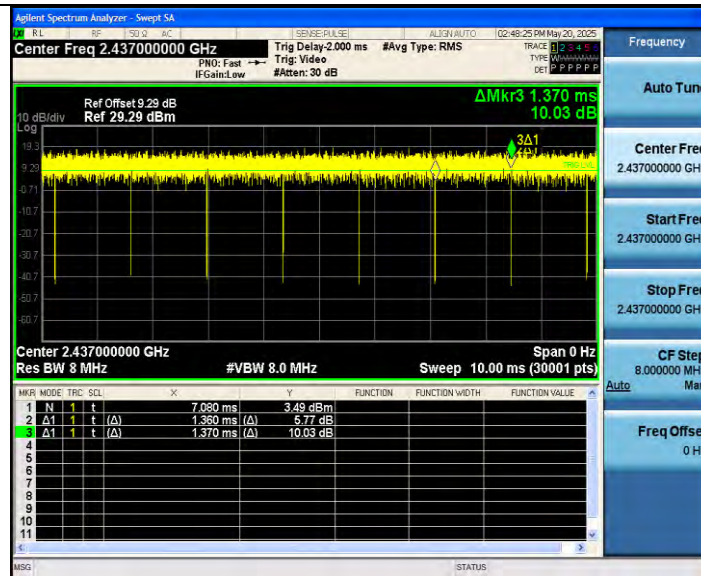
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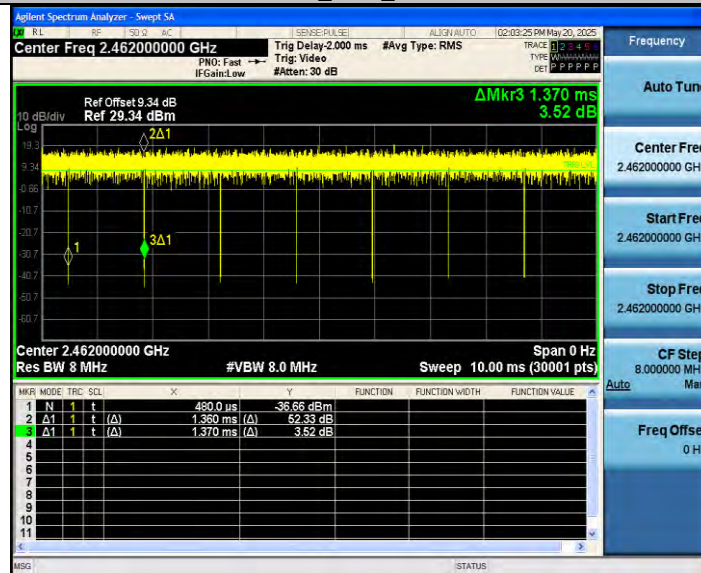
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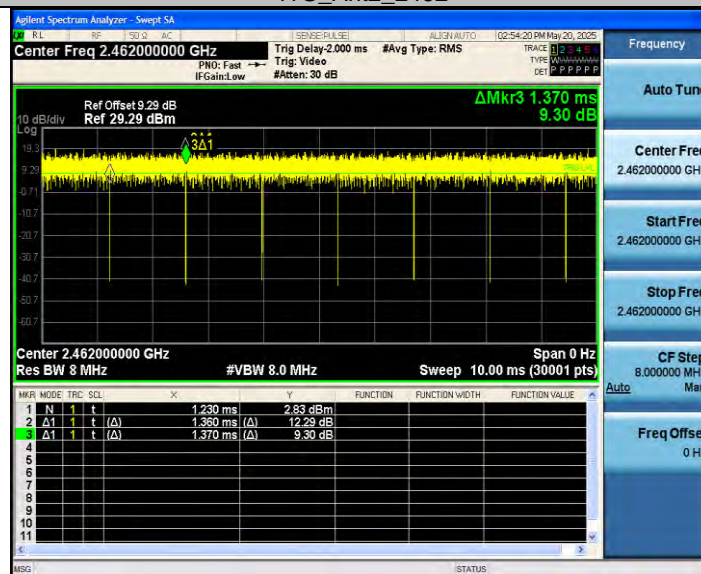
TRF No: CTC-TR-057_A2



11G_Ant1_2462



11G_Ant2_2462



11N20MIMO_Ant1_2412

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