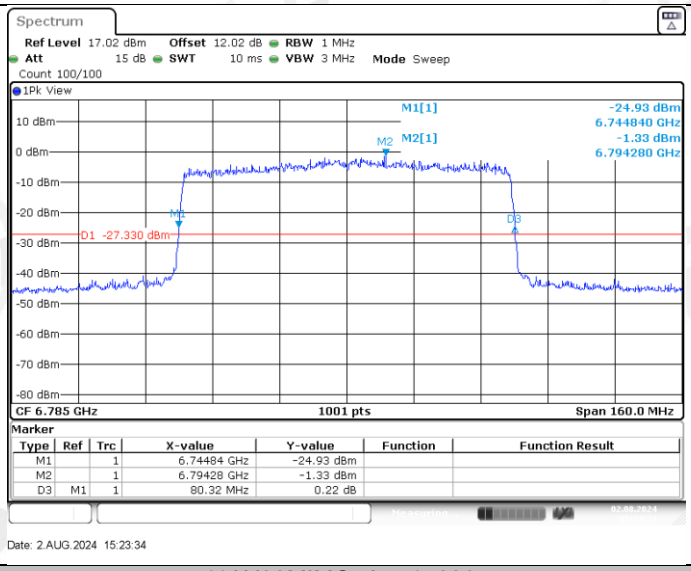
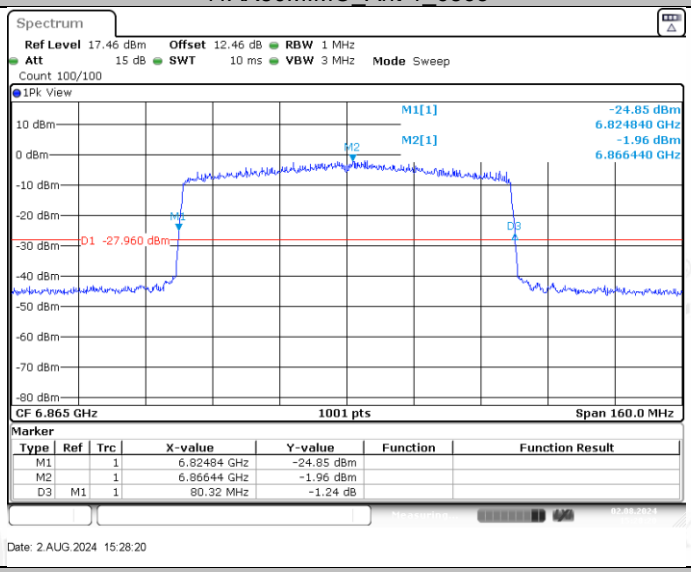
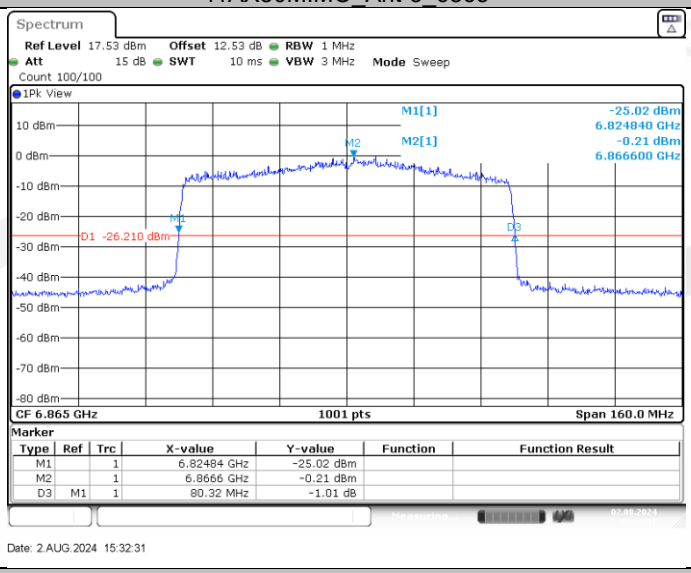


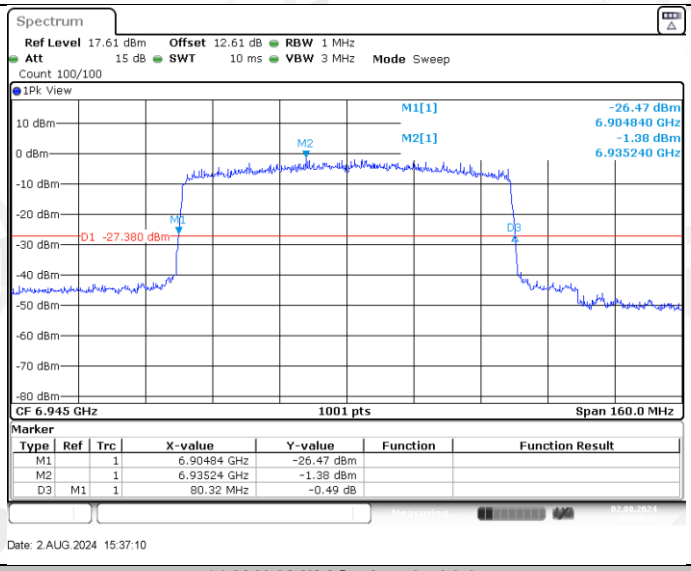
11AX80MIMO_Ant-1_6865



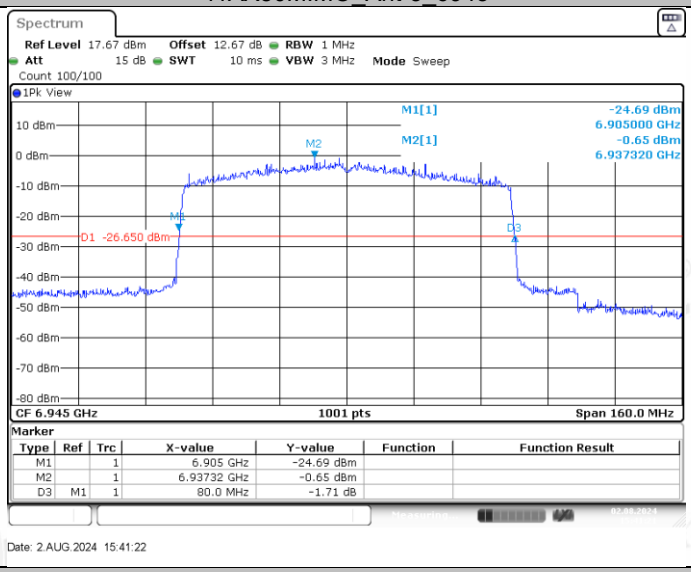
11AX80MIMO_Ant-3_6865



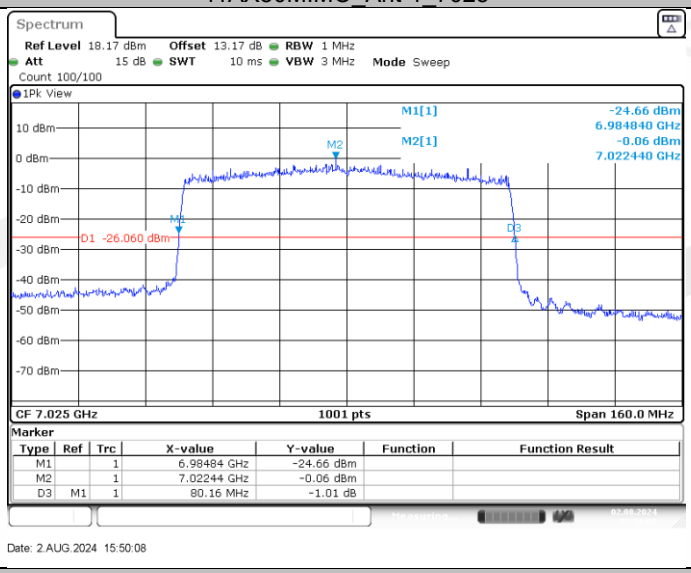
11AX80MIMO_Ant-1_6945



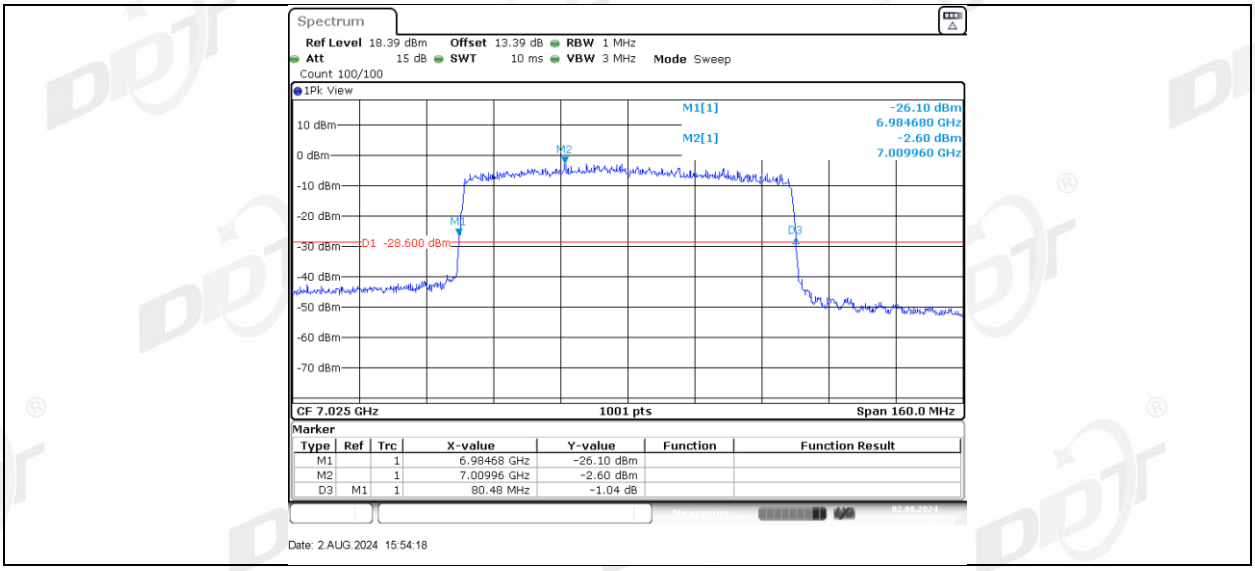
11AX80MIMO_Ant-3_6945



11AX80MIMO_Ant-1_7025

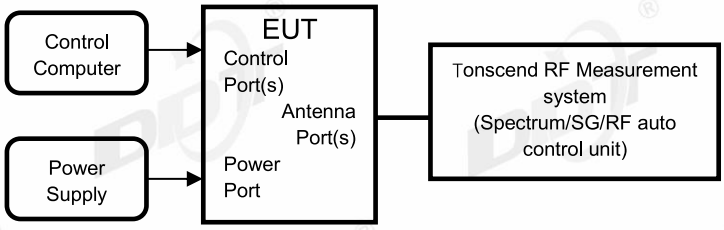


11AX80MIMO_Ant-3_7025


Spectrum
Ref Level 18.39 dBm Offset 13.39 dB RBW 1 MHz
Att 15 dB SWT 10 ms VBW 3 MHz Mode Sweep
Count 100/100
1Pk View
M1[1] -26.10 dBm
6.984680 GHz
M2[1] -2.60 dBm
7.009960 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
D1 -28.600 dBm
M1
M2
D3
CF 7.025 GHz
1001 pts
Span 160.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 6.98468 GHz -26.10 dBm
M2 1 7.00996 GHz -2.60 dBm
D3 M1 1 80.48 MHz -1.04 dB
Date: 2.AUG.2024 15:54:18

5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

The occupied bandwidth of an RLAN device shall not exceed 320 MHz.

5.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

(2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

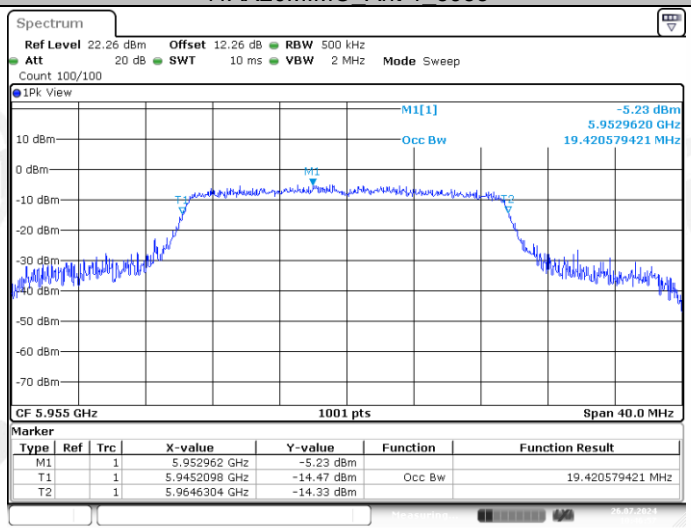
5.4. Test Result

Test Mode	Antenna	Freq. [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant-1	5955	19.421	5945.2098	5964.6304	≤320	PASS
	Ant-3	5955	19.381	5945.2498	5964.6304	≤320	PASS
	Ant-1	6175	19.381	6165.3297	6184.7103	≤320	PASS
	Ant-3	6175	19.301	6165.2498	6184.5504	≤320	PASS
	Ant-1	6415	19.461	6405.2098	6424.6703	≤320	PASS
	Ant-3	6415	19.381	6405.2498	6424.6304	≤320	PASS
	Ant-1	6435	19.5	6425.2098	6444.7103	≤320	PASS
	Ant-3	6435	19.341	6425.2098	6444.5504	≤320	PASS
	Ant-1	6475	19.461	6465.2098	6484.6703	≤320	PASS
	Ant-3	6475	19.381	6465.2897	6484.6703	≤320	PASS
	Ant-1	6515	19.461	6505.2098	6524.6703	≤320	PASS
	Ant-3	6515	19.461	6505.1299	6524.5904	≤320	PASS
	Ant-1	6535	19.54	6525.2498	6544.7902	≤320	PASS
	Ant-3	6535	19.341	6525.4895	6544.8302	≤320	PASS
	Ant-1	6695	19.421	6685.2098	6704.6304	≤320	PASS
	Ant-3	6695	19.341	6685.1299	6704.4705	≤320	PASS
	Ant-1	6855	19.421	6845.2498	6864.6703	≤320	PASS
	Ant-3	6855	19.421	6845.3696	6864.7902	≤320	PASS
	Ant-1	6875	19.421	6865.2498	6884.6703	≤320	PASS
	Ant-3	6875	19.261	6865.3696	6884.6304	≤320	PASS
	Ant-1	6895	19.78	6885.0899	6904.8701	≤320	PASS
	Ant-3	6895	19.66	6885.0100	6904.6703	≤320	PASS
	Ant-1	6995	19.74	6985.0899	7004.8302	≤320	PASS
	Ant-3	6995	19.54	6985.2897	7004.8302	≤320	PASS
	Ant-1	7095	19.74	7085.0899	7104.8302	≤320	PASS
	Ant-3	7095	19.54	7085.1299	7104.6703	≤320	PASS
	Ant-1	7115	19.301	7105.3297	7124.6304	≤320	PASS
	Ant-3	7115	19.341	7105.2498	7124.5904	≤320	PASS
11AX40MIMO	Ant-1	5965	37.642	5946.1389	5983.7812	≤320	PASS
	Ant-3	5965	37.323	5946.1389	5983.4615	≤320	PASS
	Ant-1	6165	37.562	6146.2987	6183.8611	≤320	PASS
	Ant-3	6165	37.323	6146.2188	6183.5415	≤320	PASS
	Ant-1	6405	37.562	6386.1389	6423.7013	≤320	PASS
	Ant-3	6405	37.323	6386.4585	6423.7812	≤320	PASS
	Ant-1	6445	37.562	6426.2188	6463.7812	≤320	PASS
	Ant-3	6445	37.722	6426.0589	6463.7812	≤320	PASS
	Ant-1	6485	37.562	6466.1389	6503.7013	≤320	PASS
	Ant-3	6485	37.403	6466.2188	6503.6214	≤320	PASS
	Ant-1	6525	37.642	6506.1389	6543.7812	≤320	PASS
	Ant-3	6525	37.882	6506.1389	6544.0210	≤320	PASS
	Ant-1	6565	37.722	6546.2188	6583.9411	≤320	PASS
	Ant-3	6565	37.483	6546.1389	6583.6214	≤320	PASS
	Ant-1	6685	37.562	6666.2188	6703.7812	≤320	PASS
	Ant-3	6685	37.163	6666.3786	6703.5415	≤320	PASS
	Ant-1	6845	37.642	6826.1389	6863.7812	≤320	PASS
	Ant-3	6845	37.802	6826.0589	6863.8611	≤320	PASS
	Ant-1	6885	37.722	6866.0589	6903.7812	≤320	PASS
	Ant-3	6885	37.403	6866.2188	6903.6214	≤320	PASS
	Ant-1	6925	37.562	6906.2188	6943.7812	≤320	PASS
	Ant-3	6925	37.562	6906.2987	6943.8611	≤320	PASS
	Ant-1	6965	37.403	6946.2188	6983.6214	≤320	PASS
	Ant-3	6965	37.642	6946.0589	6983.7013	≤320	PASS
	Ant-1	7085	37.642	7066.1389	7103.7812	≤320	PASS
	Ant-3	7085	37.562	7066.0589	7103.6214	≤320	PASS
11AX80MIMO	Ant-1	5985	77.203	5946.3187	6023.5215	≤320	PASS
	Ant-3	5985	77.522	5946.1588	6023.6813	≤320	PASS
	Ant-1	6145	77.203	6106.4785	6183.6813	≤320	PASS
	Ant-3	6145	76.723	6106.6384	6183.3616	≤320	PASS
	Ant-1	6385	76.723	6346.4785	6423.2018	≤320	PASS
	Ant-3	6385	76.723	6346.6384	6423.3616	≤320	PASS

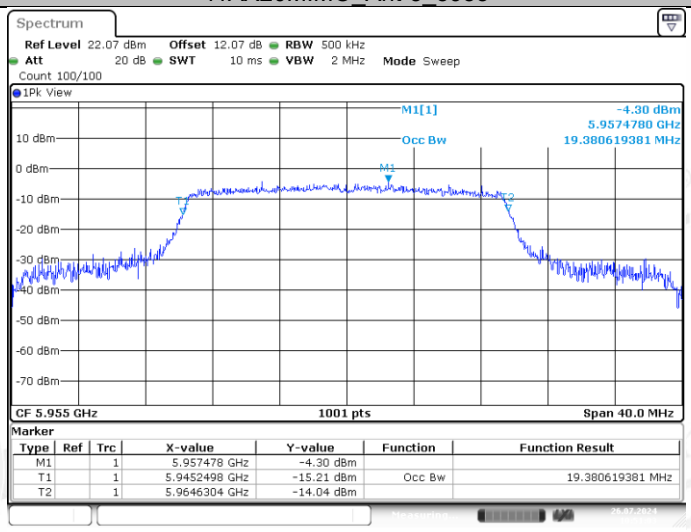
	Ant-1	6465	76.723	6426.6384	6503.3616	≤320	PASS
	Ant-3	6465	76.723	6426.6384	6503.3616	≤320	PASS
	Ant-1	6545	77.043	6496.5684	6573.6114	≤320	PASS
	Ant-3	6545	77.203	6506.4785	6583.6813	≤320	PASS
	Ant-1	6625	76.883	6586.4785	6663.3616	≤320	PASS
	Ant-3	6625	76.723	6586.6384	6663.3616	≤320	PASS
	Ant-1	6705	76.563	6666.6384	6743.2018	≤320	PASS
	Ant-3	6705	77.363	6666.3187	6743.6813	≤320	PASS
	Ant-1	6785	76.723	6746.6384	6823.3616	≤320	PASS
	Ant-3	6785	77.363	6746.4785	6823.8412	≤320	PASS
	Ant-1	6865	76.883	6826.4785	6903.3616	≤320	PASS
	Ant-3	6865	76.723	6826.4785	6903.2018	≤320	PASS
	Ant-1	6945	76.883	6906.6384	6983.5215	≤320	PASS
	Ant-3	6945	76.244	6906.7982	6983.0420	≤320	PASS
	Ant-1	7025	77.043	6986.3187	7063.3616	≤320	PASS
	Ant-3	7025	77.043	6986.3187	7063.3616	≤320	PASS

5.5. Test Graphs

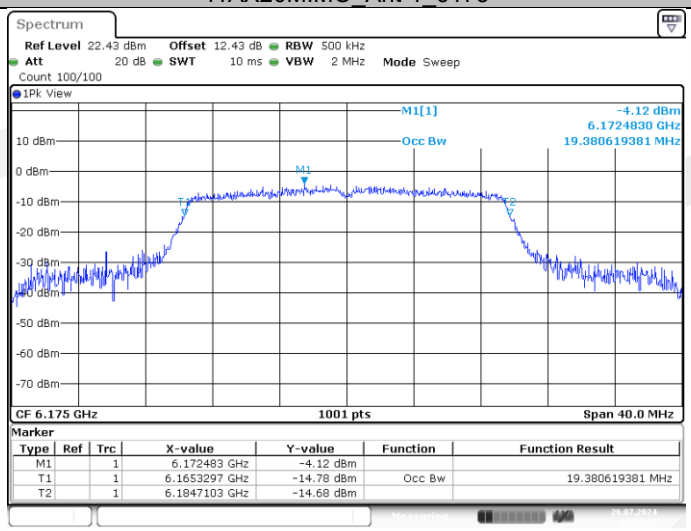
11AX20MIMO_Ant-1_5955



11AX20MIMO_Ant-3_5955



11AX20MIMO_Ant-1_6175



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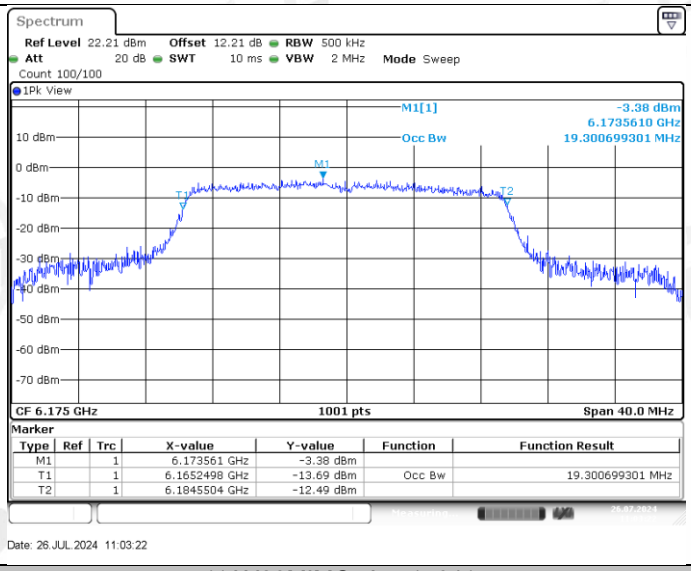

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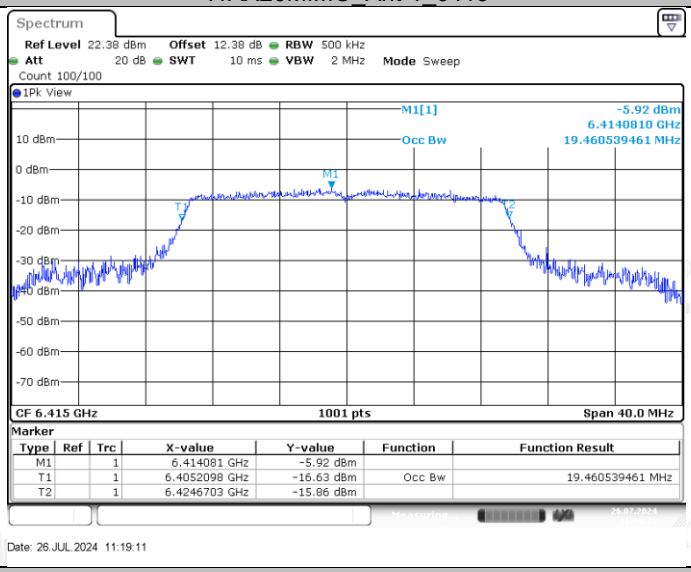

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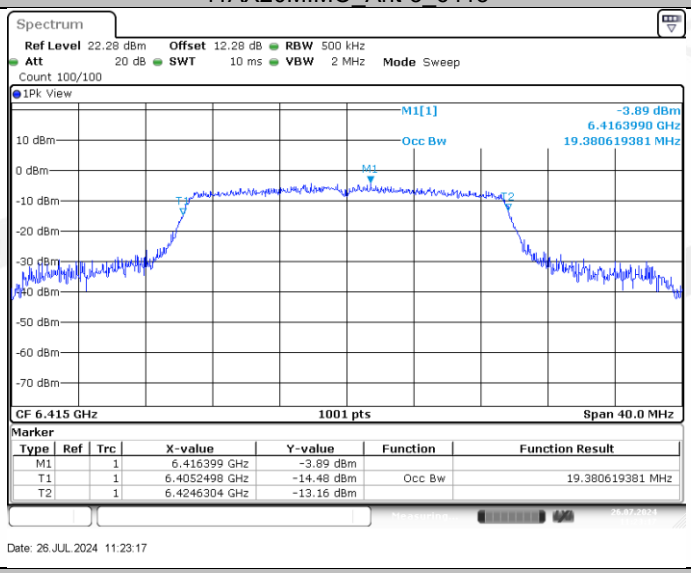

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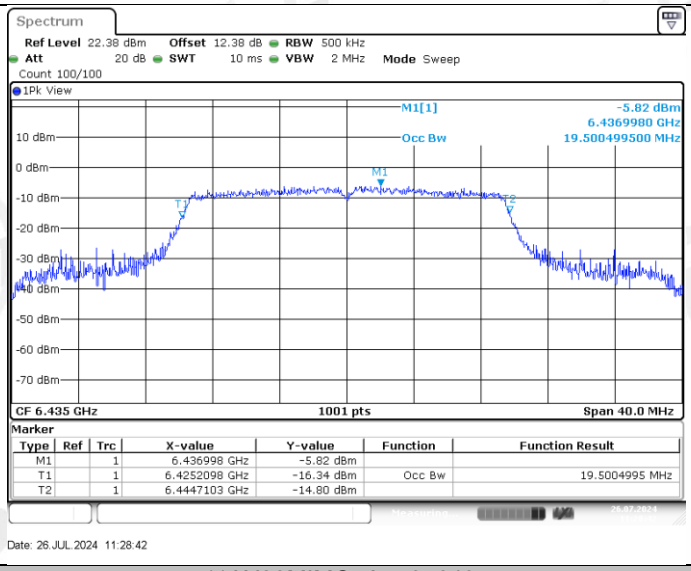

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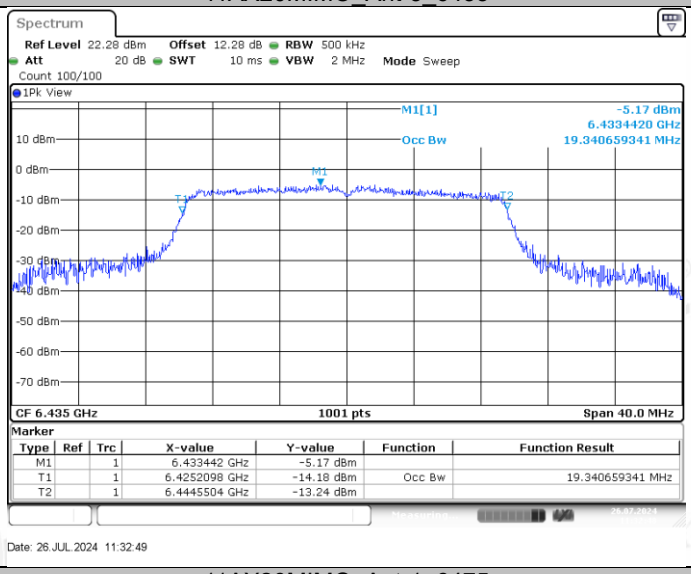

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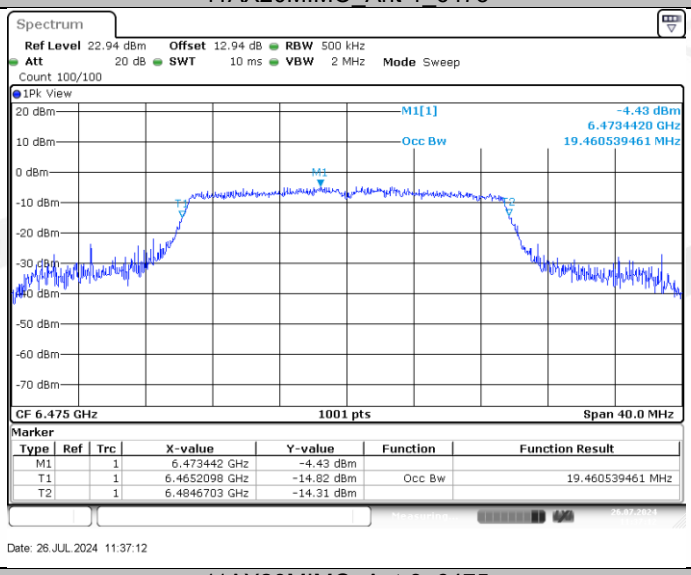

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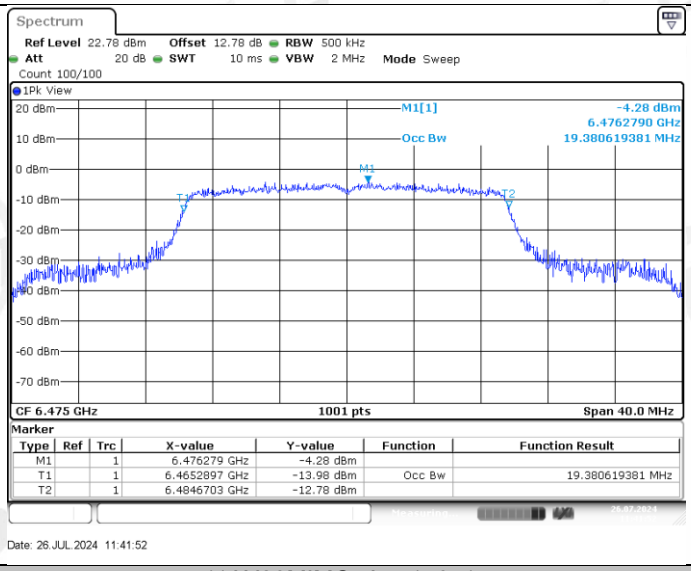

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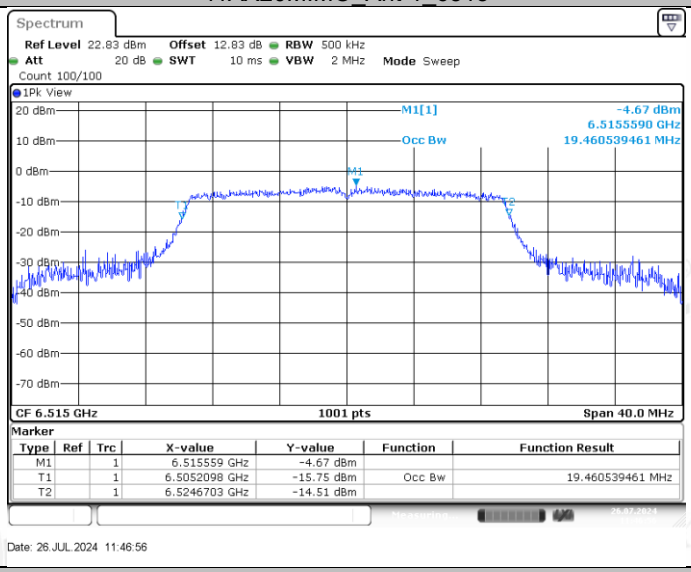

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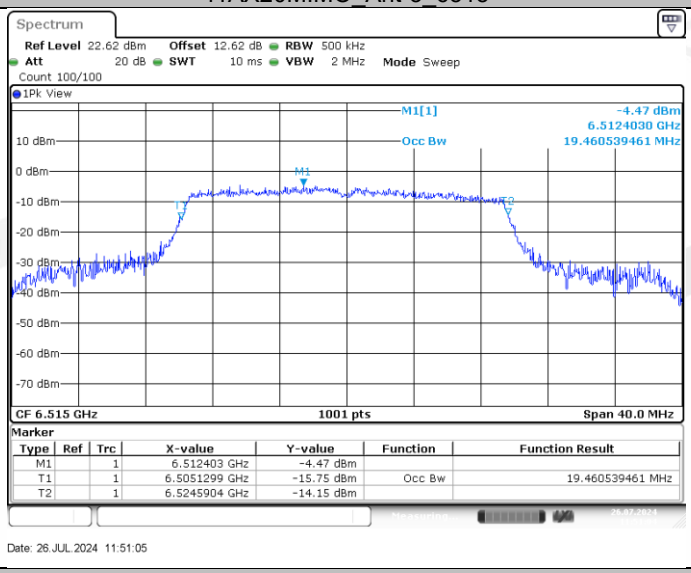

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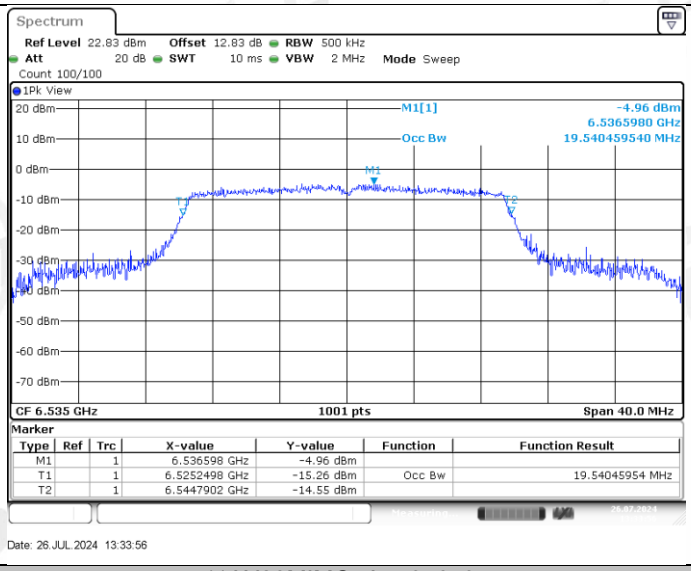

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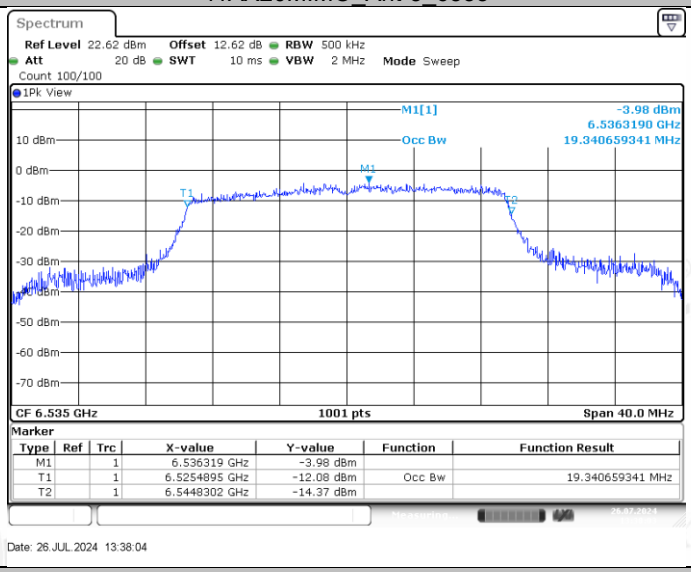
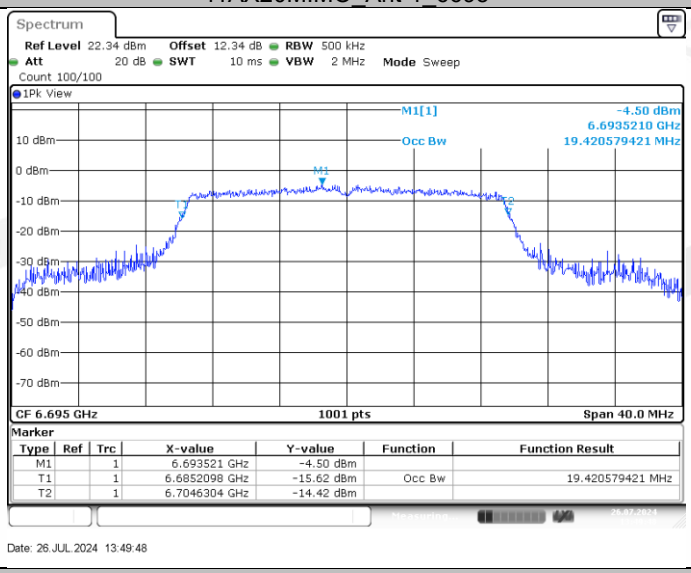
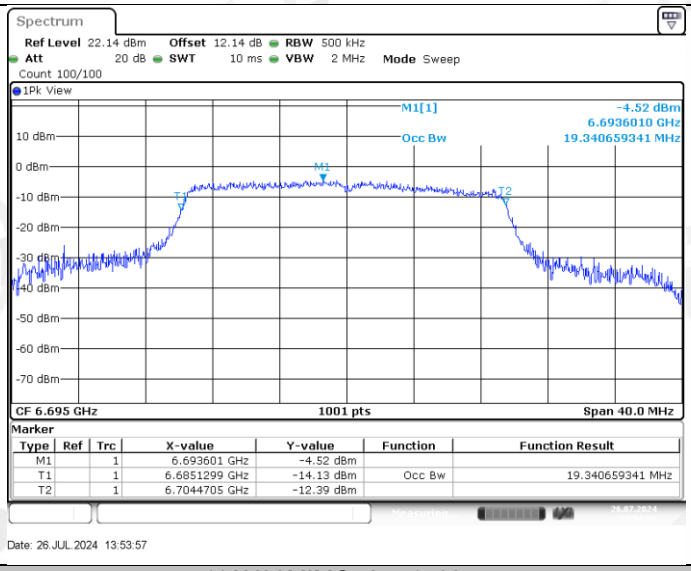


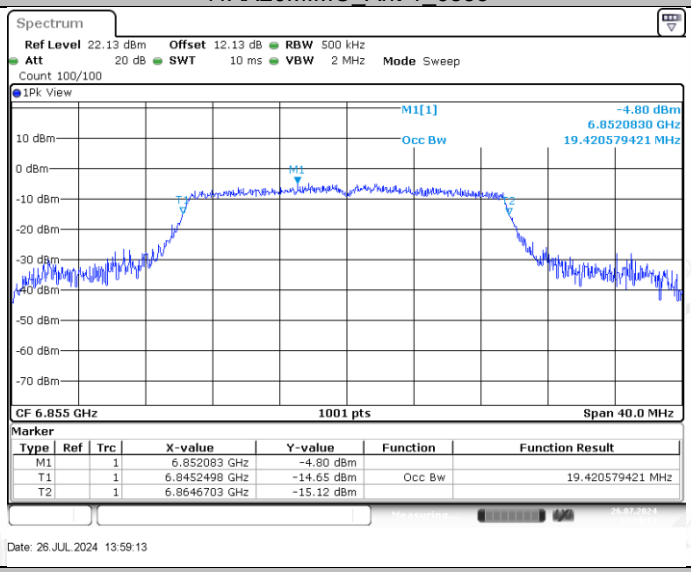
11AX20MIMO_Ant-1_6695



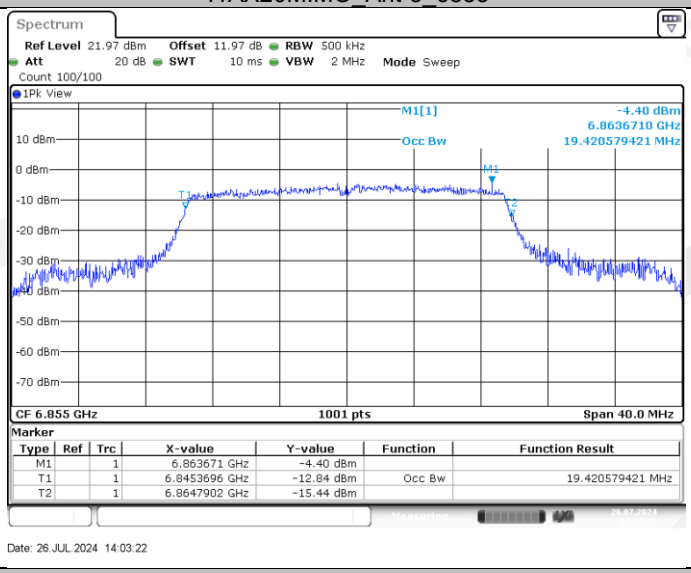
11AX20MIMO_Ant-3_6695



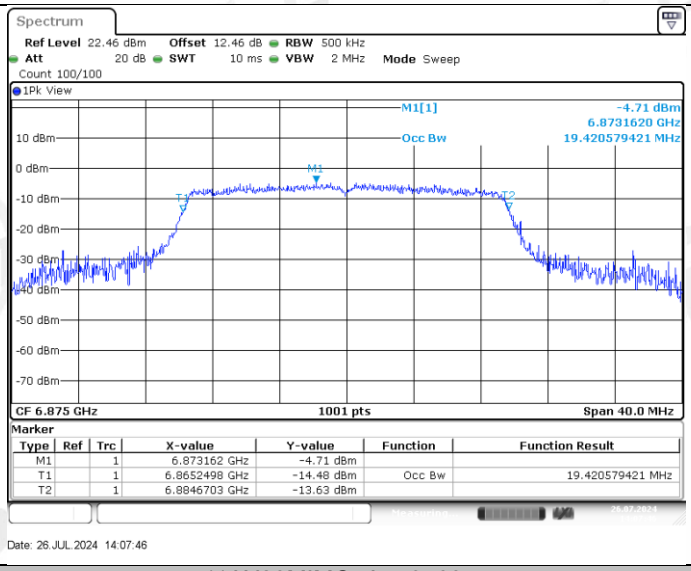
11AX20MIMO_Ant-1_6855



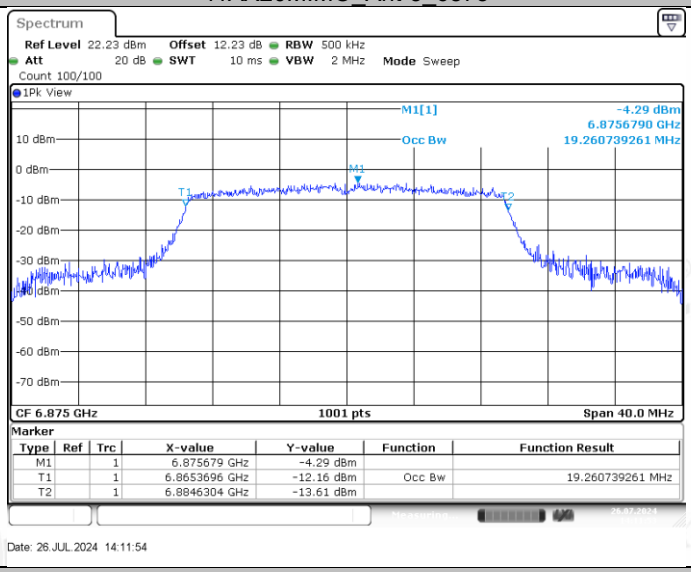
11AX20MIMO_Ant-3_6855



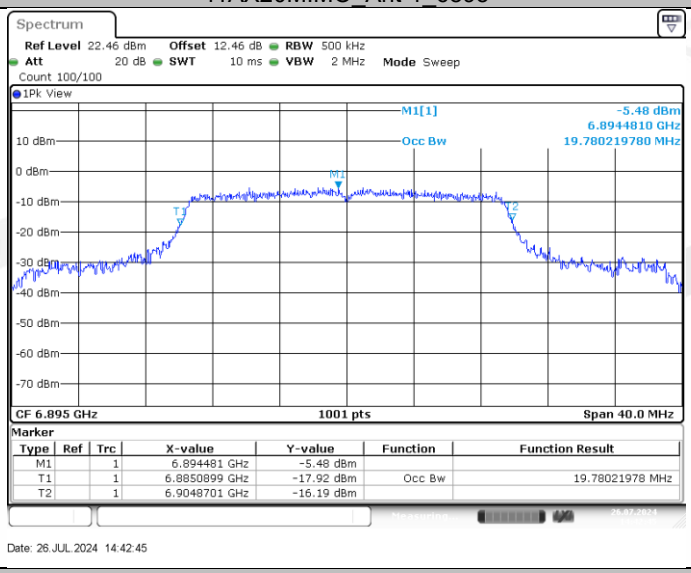
11AX20MIMO_Ant-1_6875



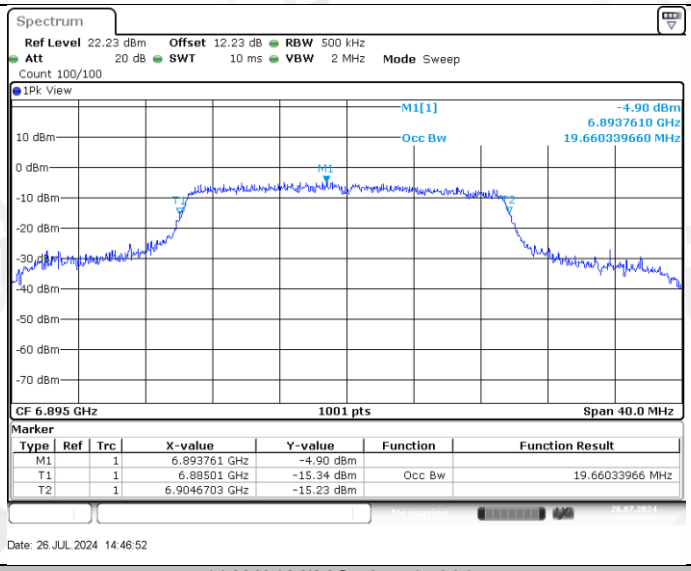
11AX20MIMO_Ant-3_6875



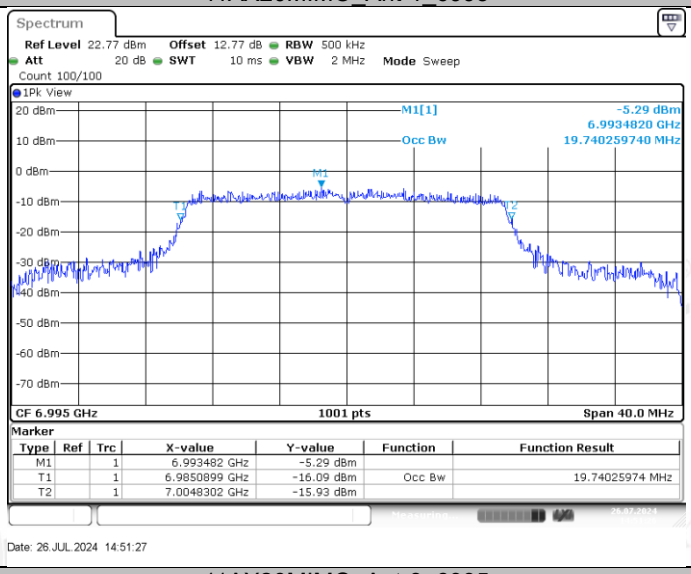
11AX20MIMO_Ant-1_6895



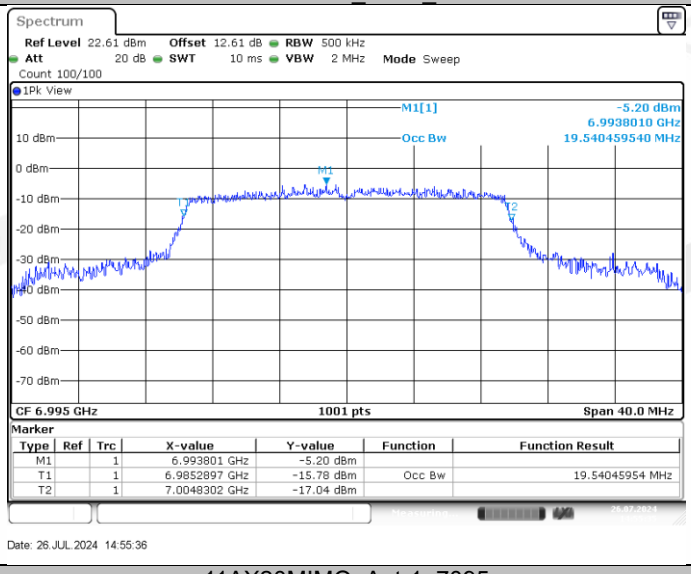
11AX20MIMO_Ant-3_6895



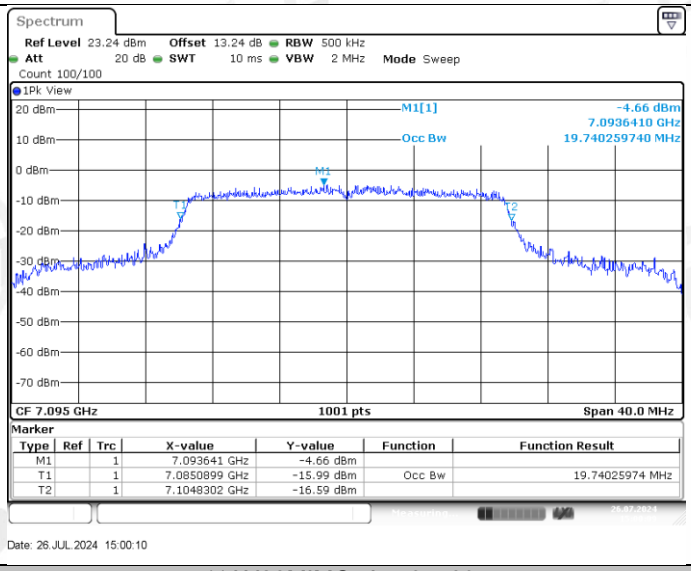
11AX20MIMO_Ant-1_6995



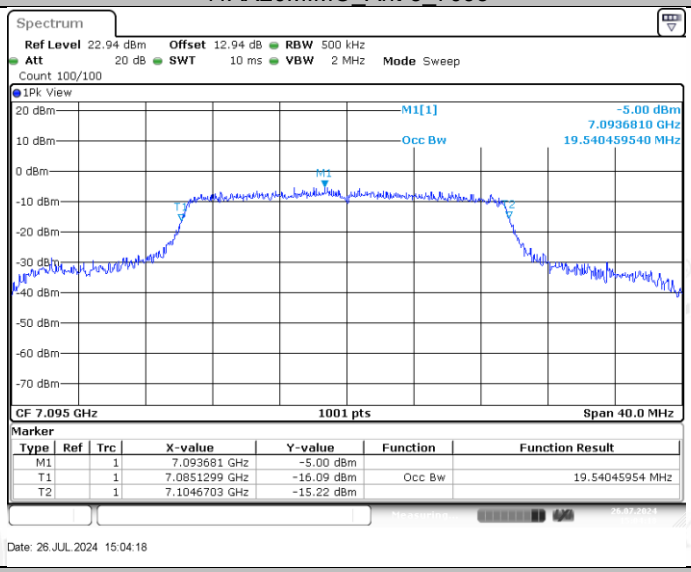
11AX20MIMO_Ant-3_6995



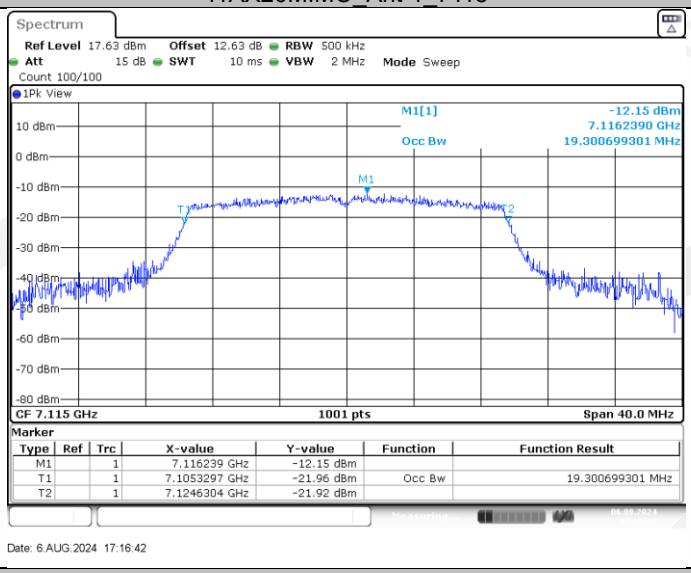
11AX20MIMO_Ant-1_7095



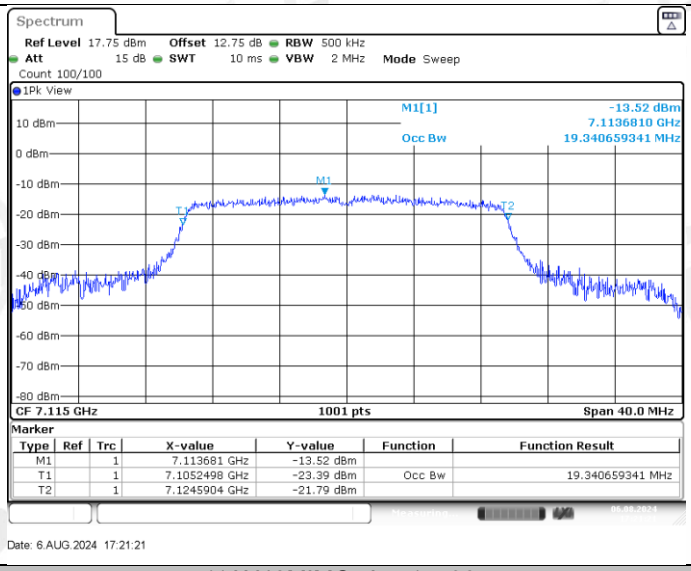
11AX20MIMO_Ant-3_7095



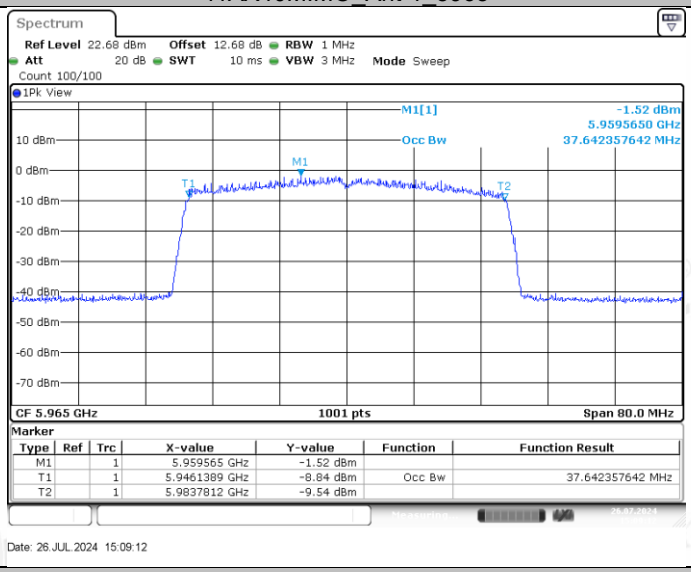
11AX20MIMO_Ant-1_7115



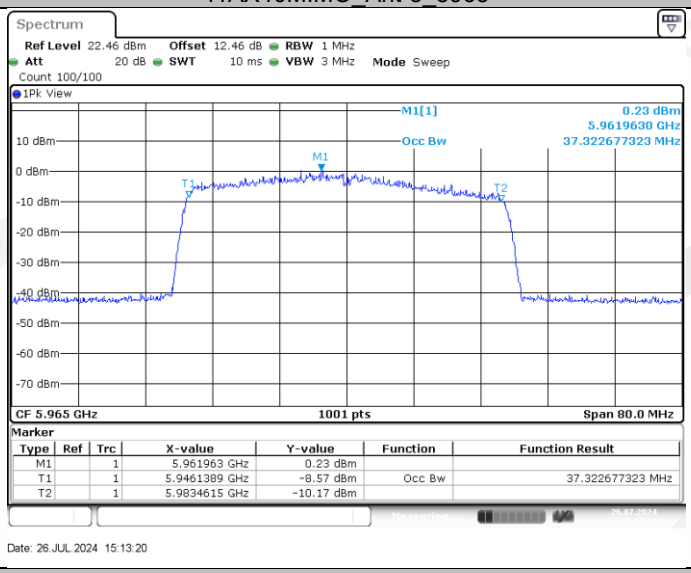
11AX20MIMO_Ant-3_7115



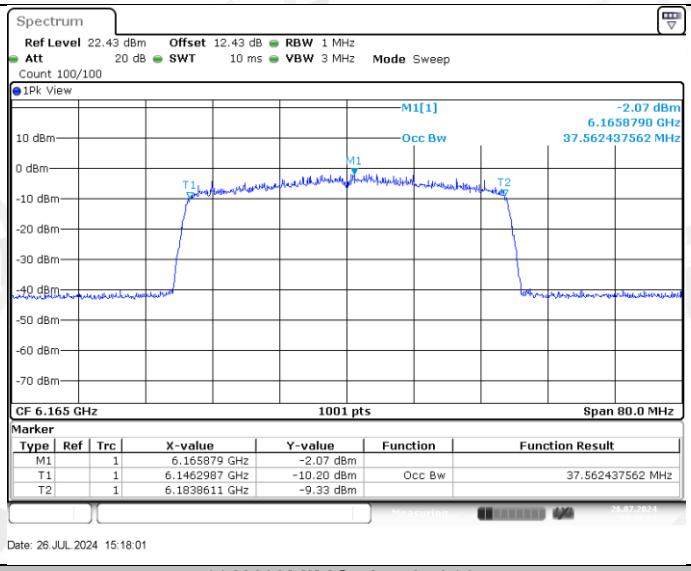
11AX40MIMO_Ant-1_5965



11AX40MIMO_Ant-3_5965



11AX40MIMO_Ant-1_6165



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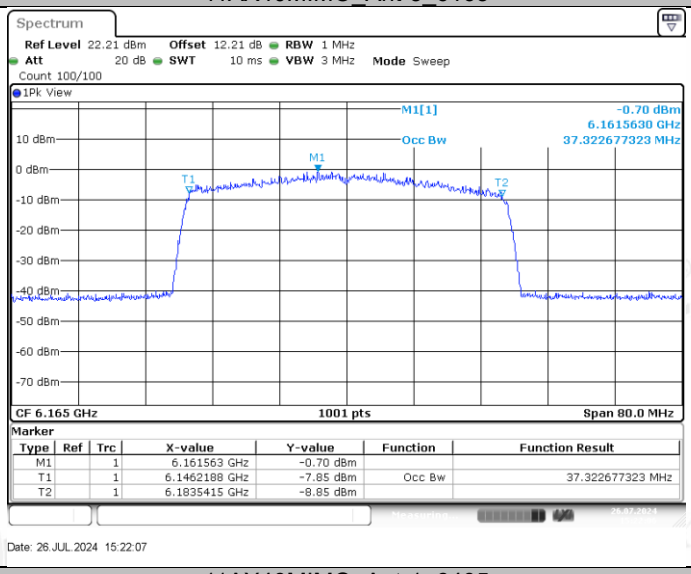

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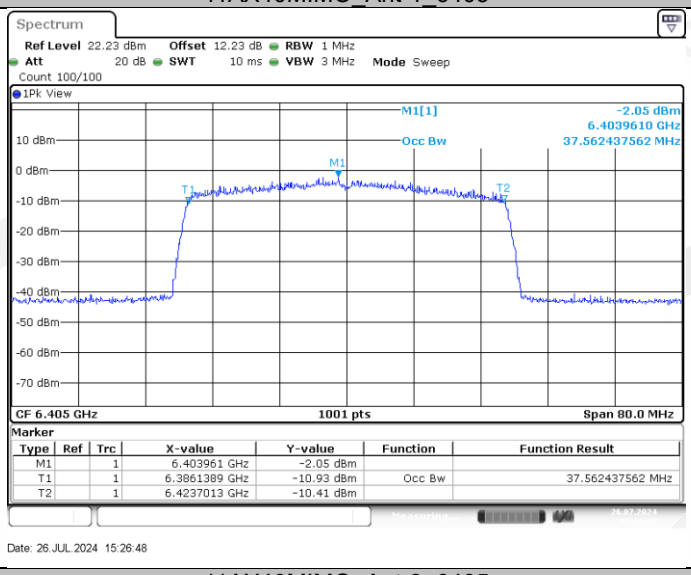

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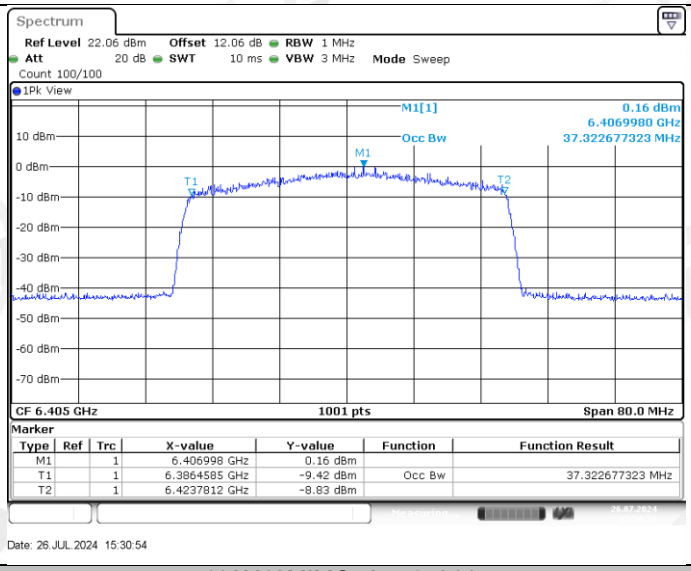

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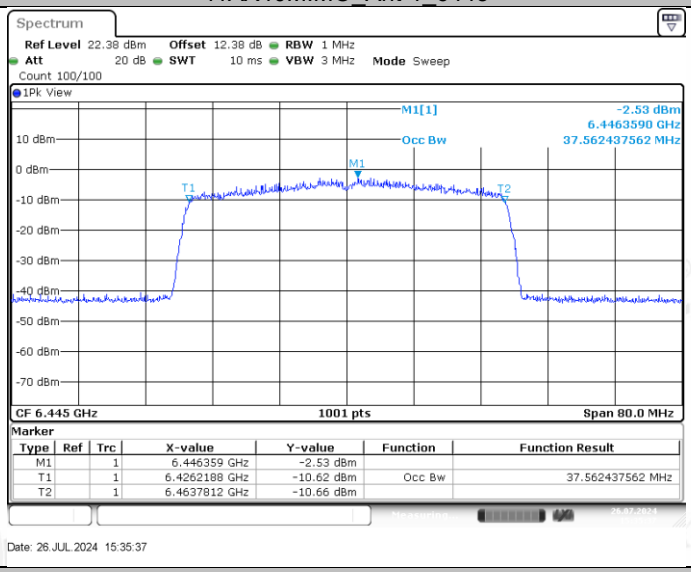

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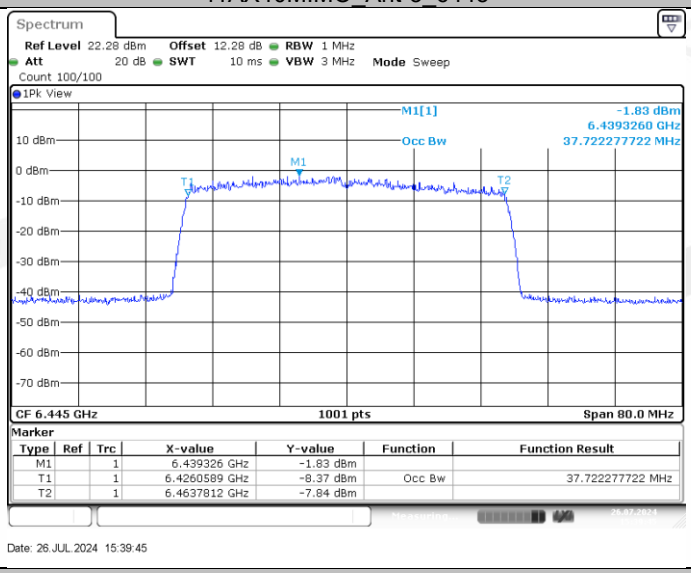

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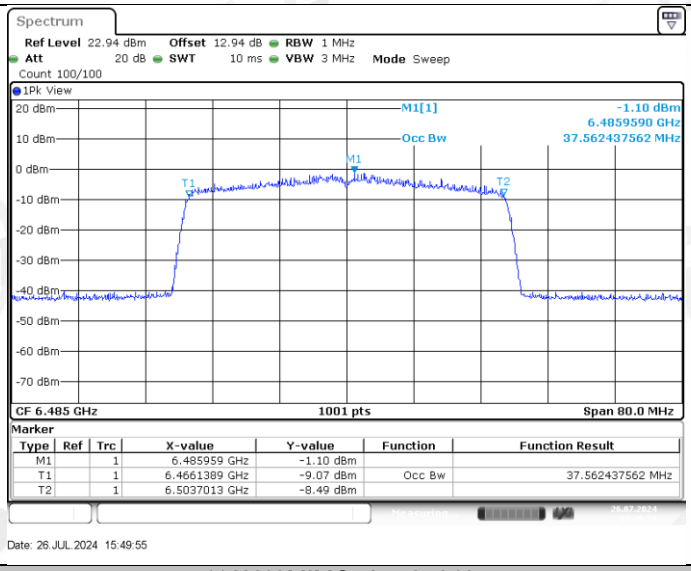

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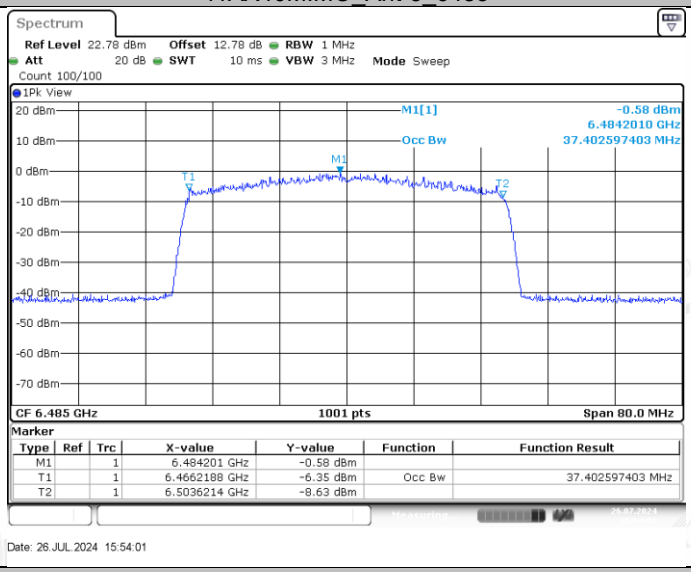

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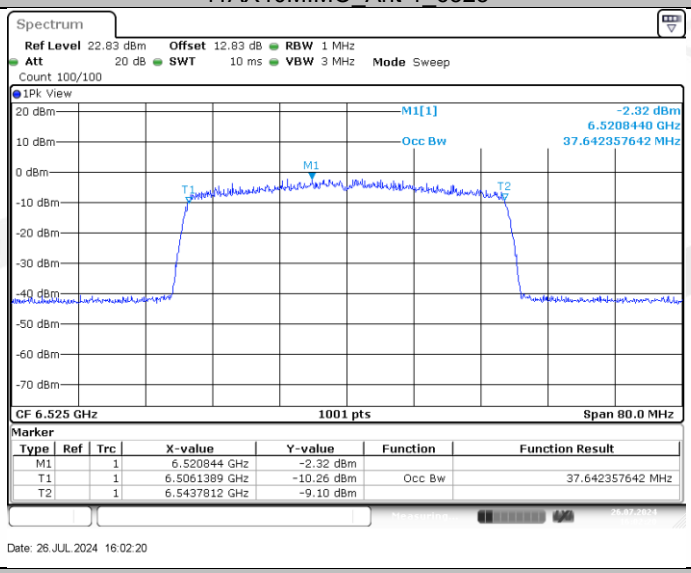

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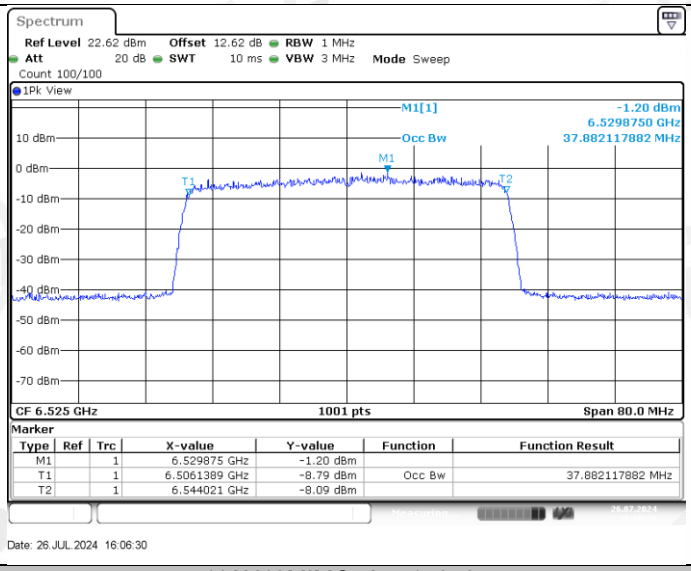

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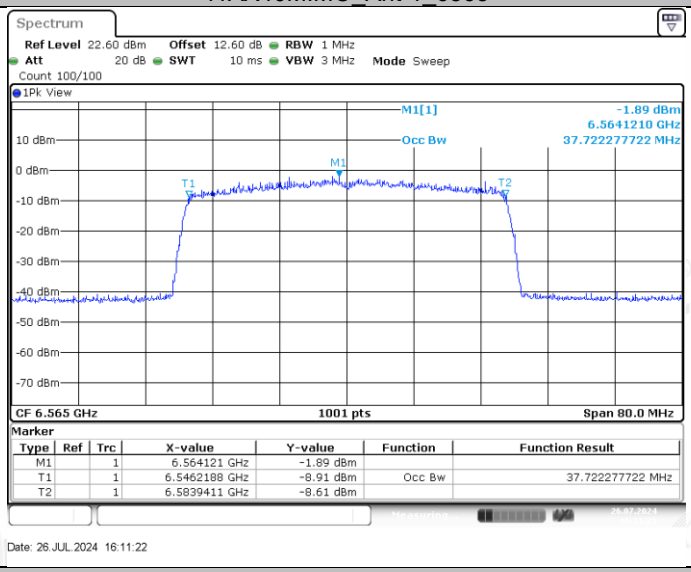

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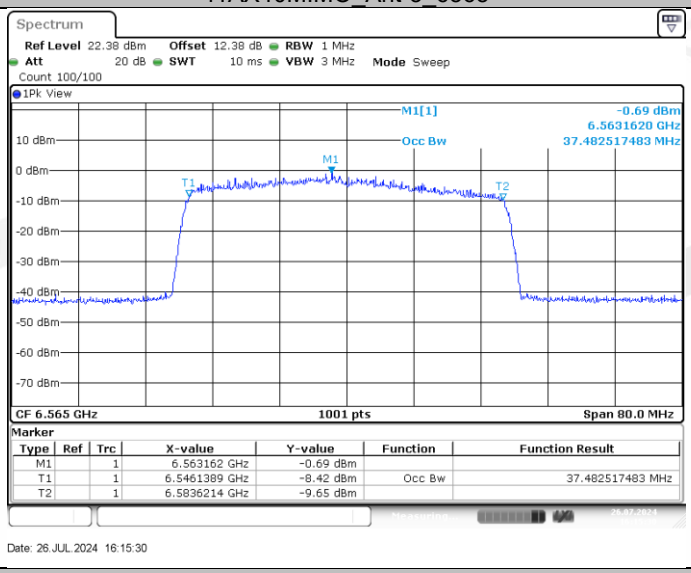

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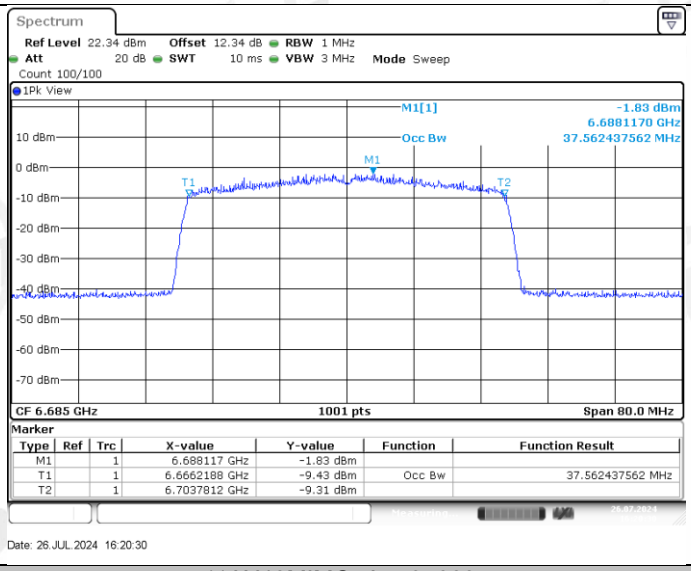

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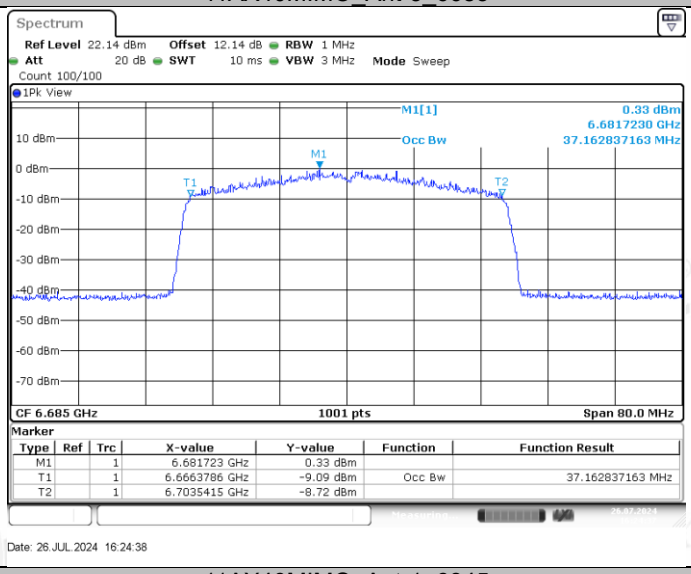

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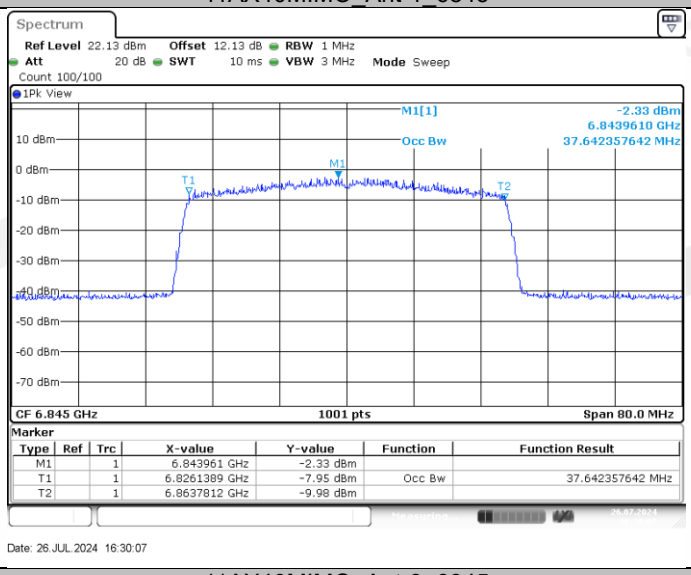

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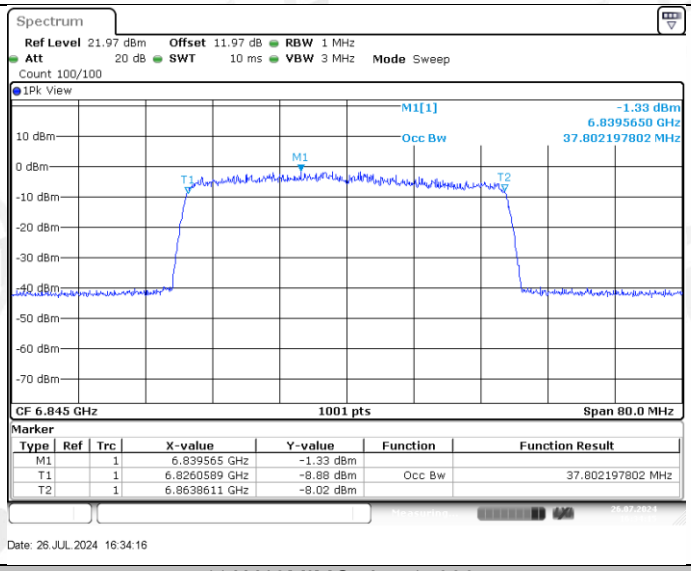

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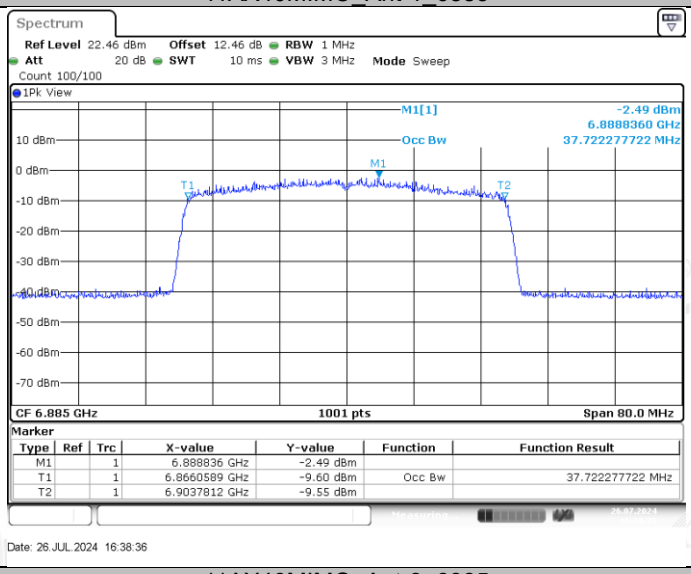

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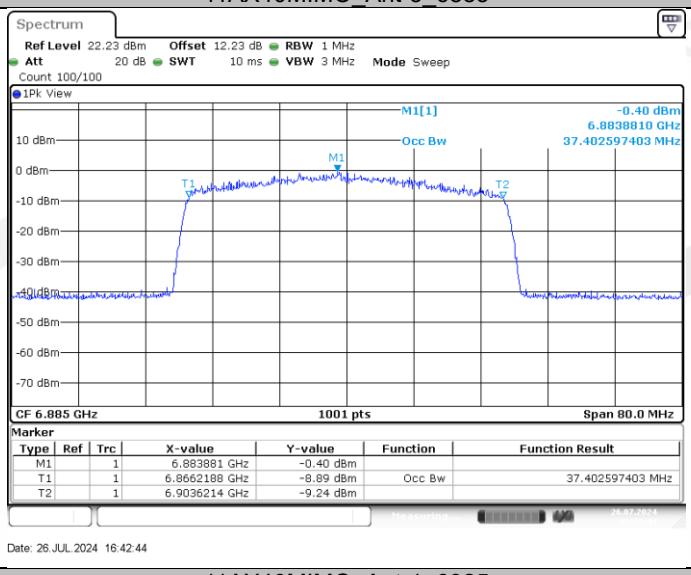

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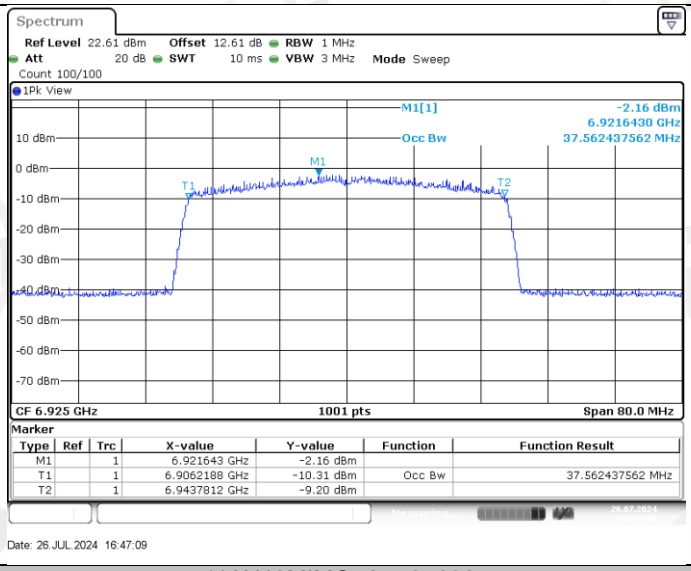

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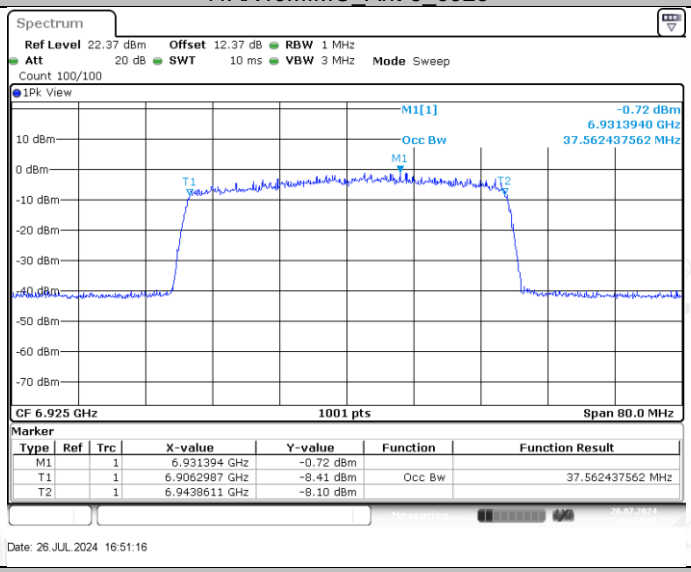

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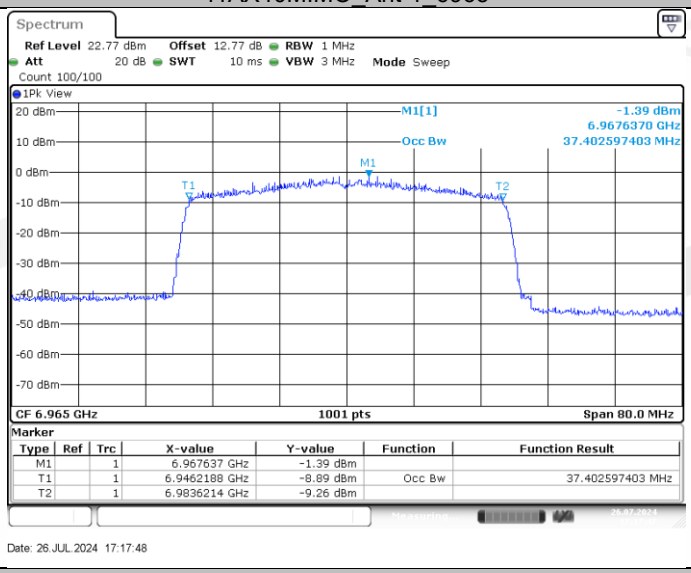

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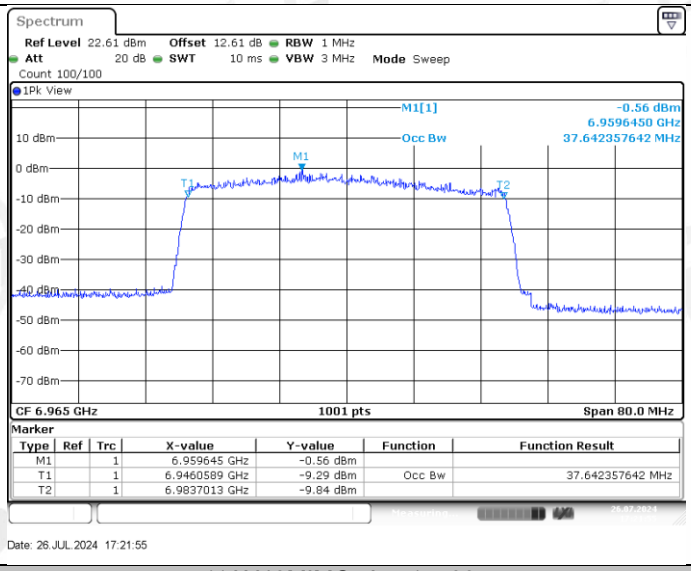

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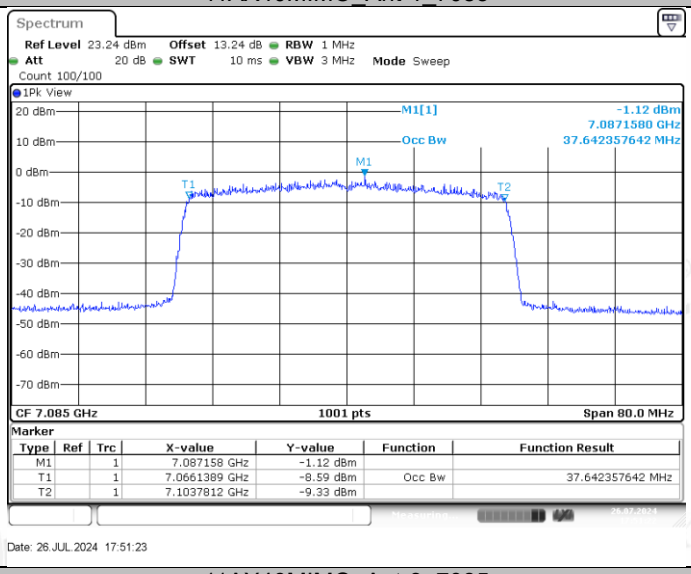

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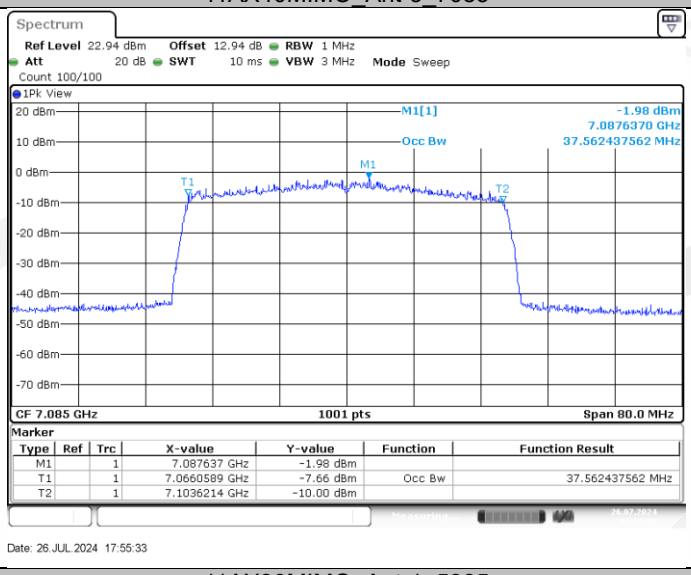

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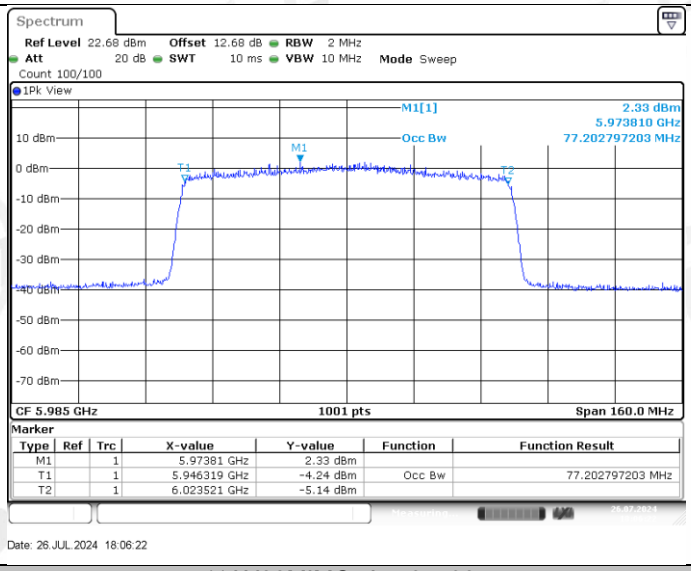

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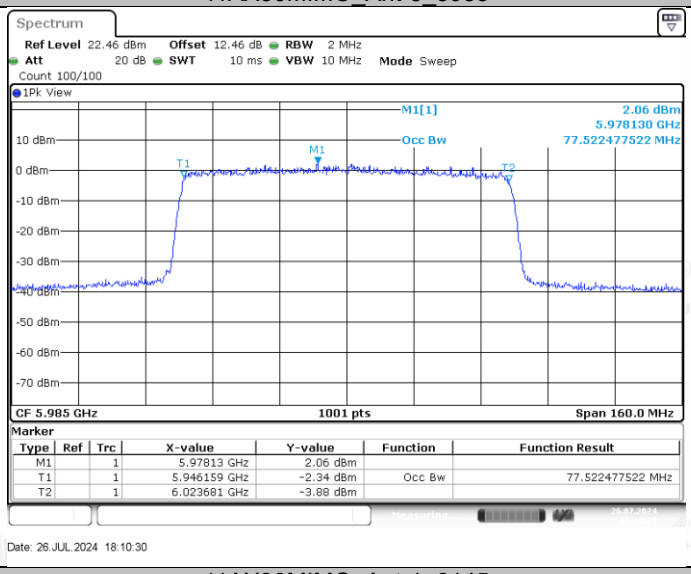

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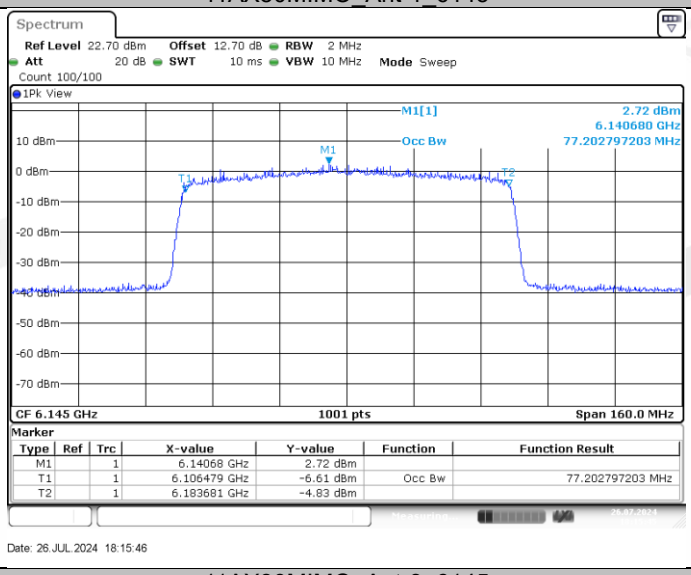

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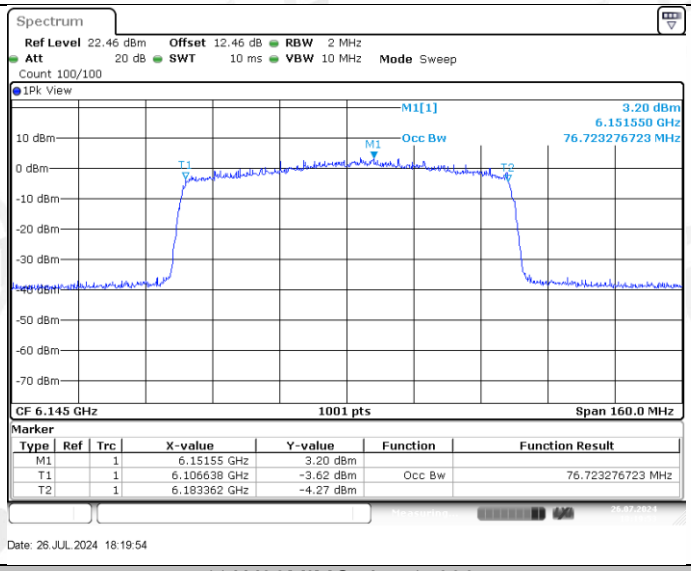

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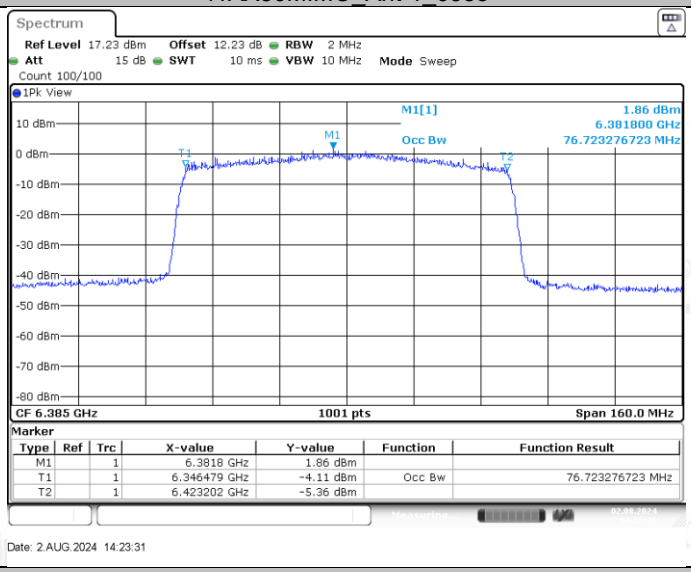

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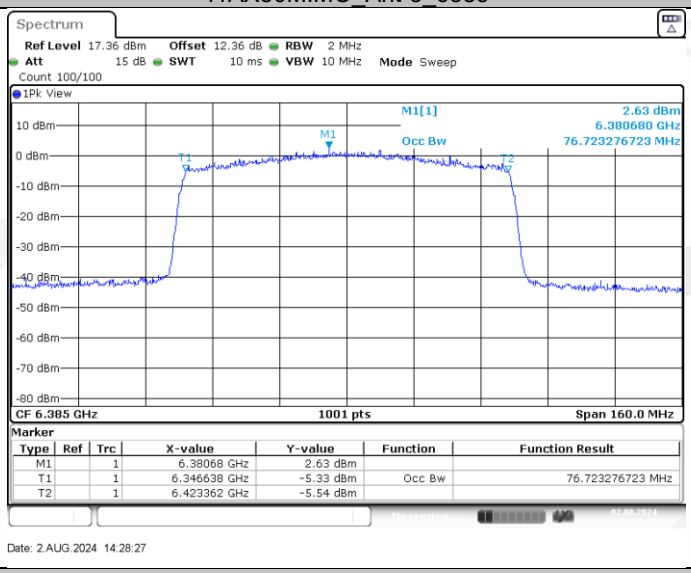

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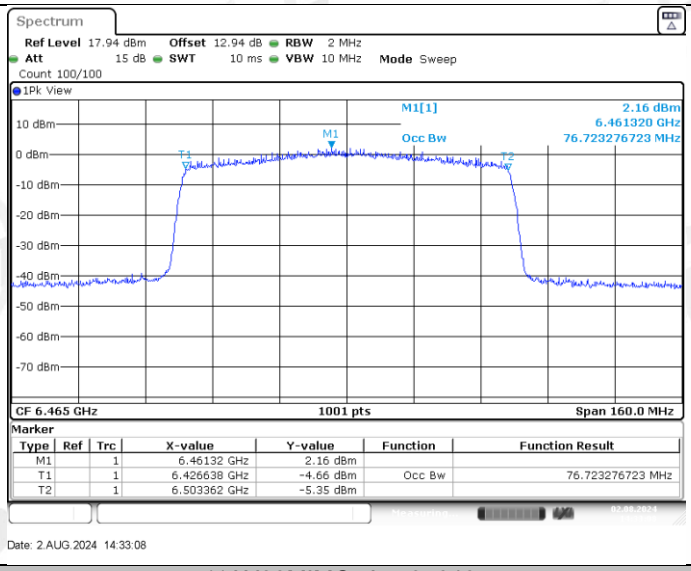

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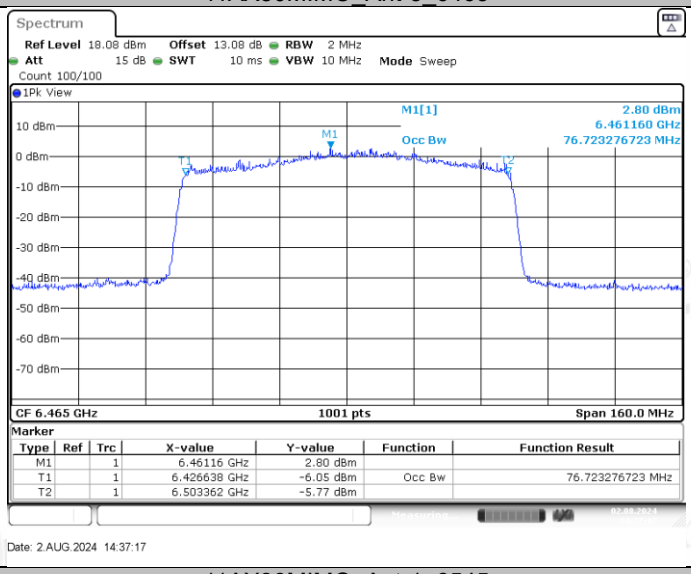

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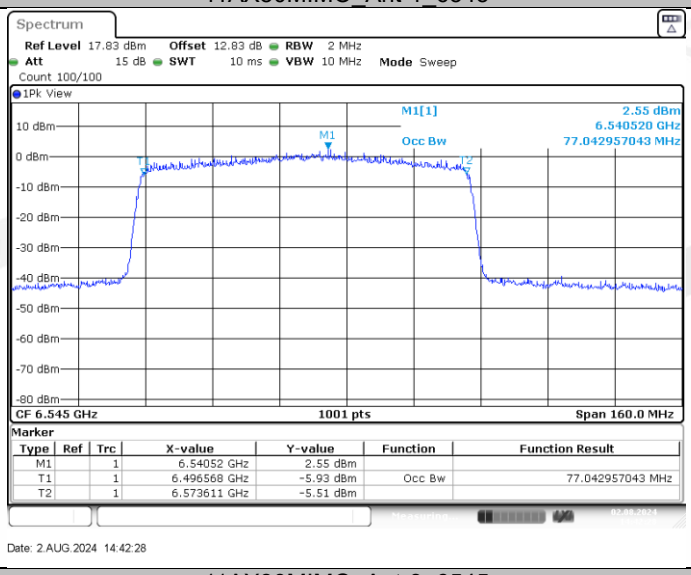

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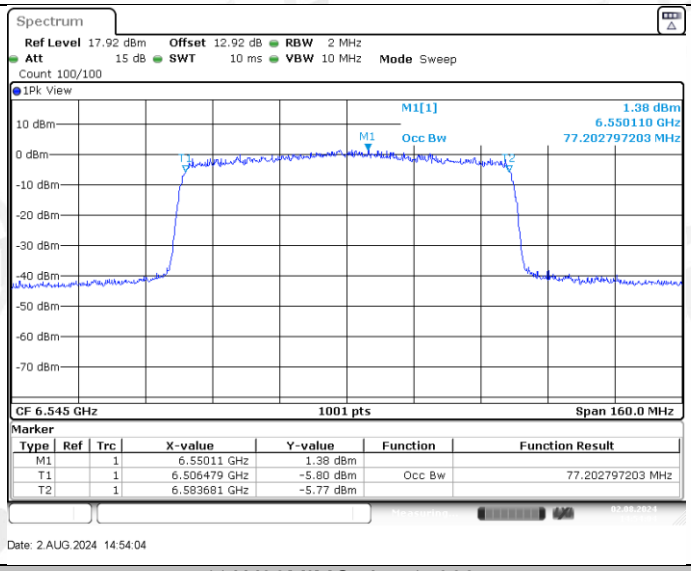

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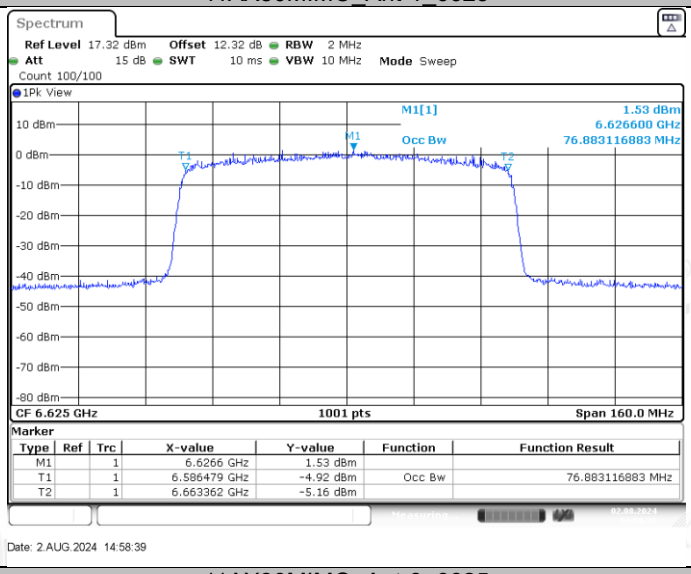

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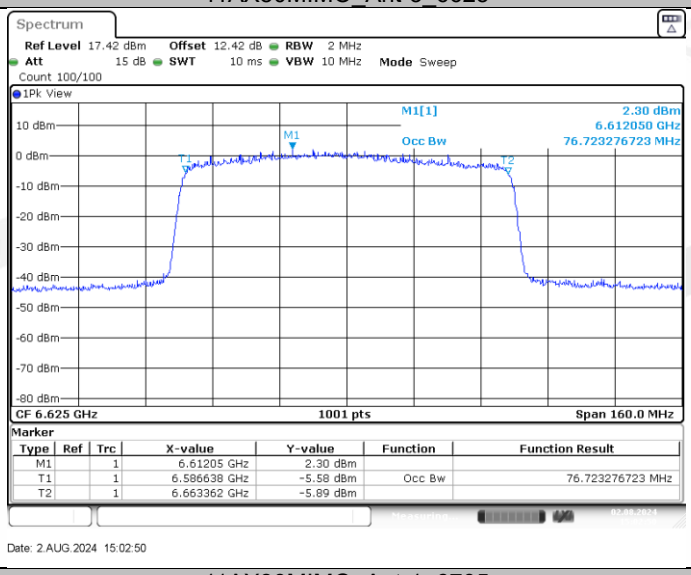

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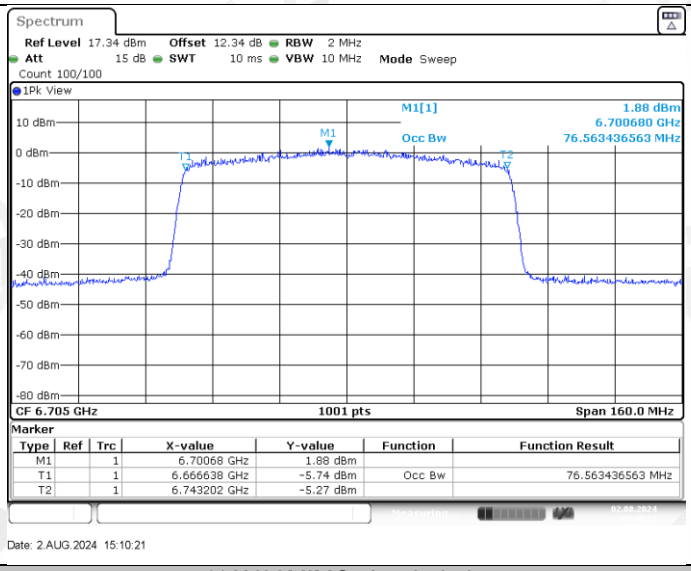

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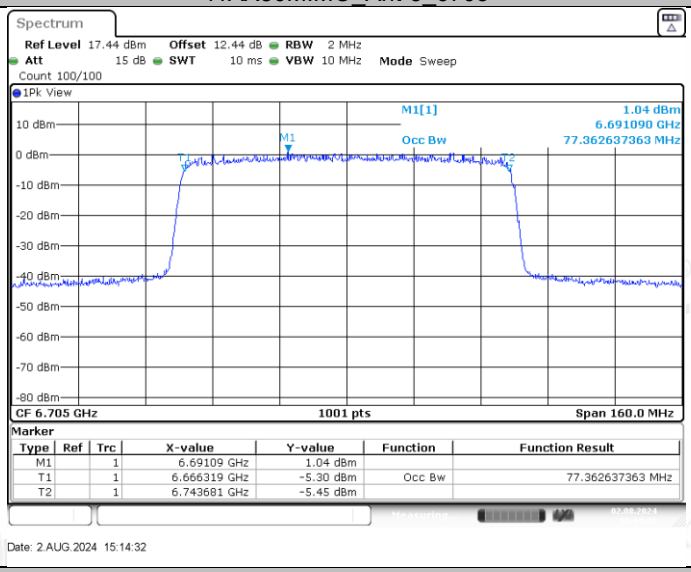

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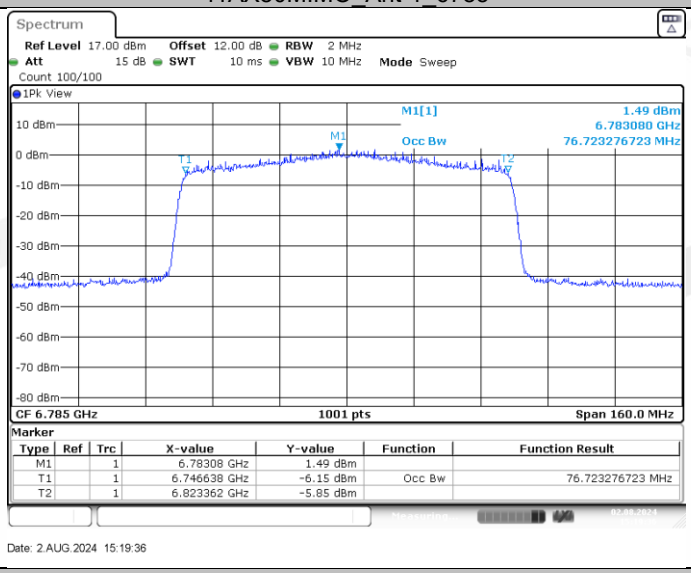

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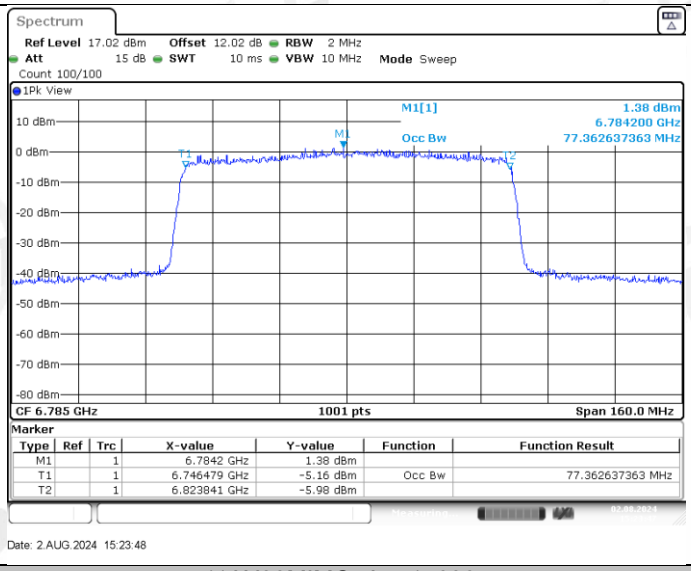

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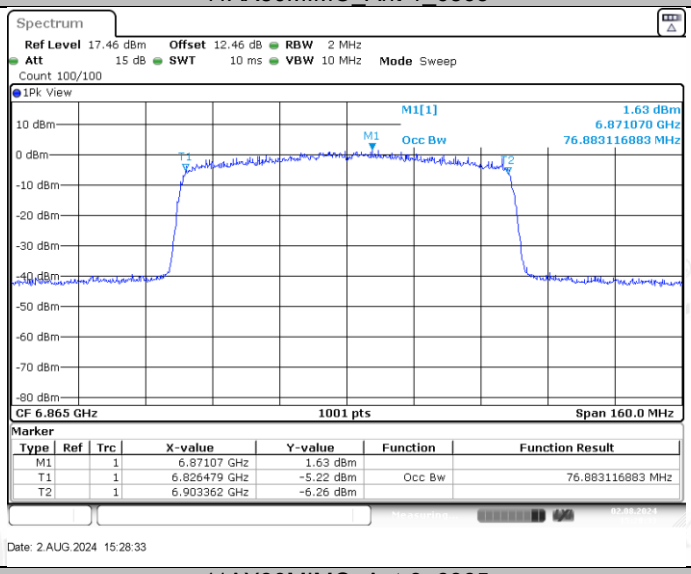

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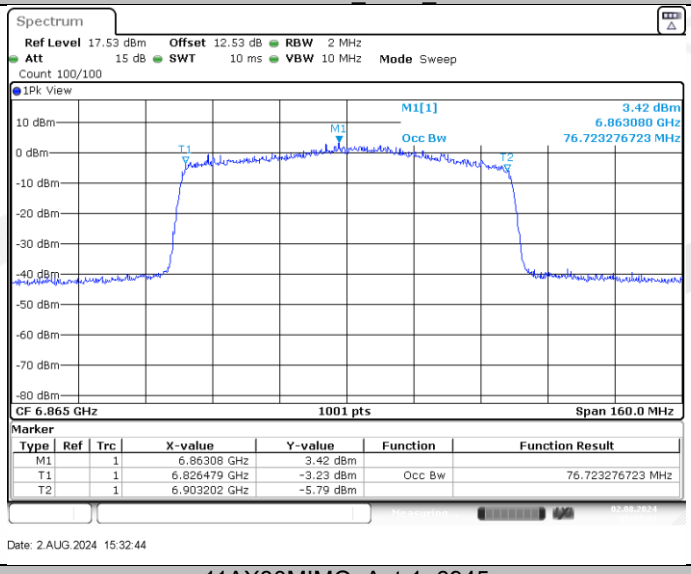

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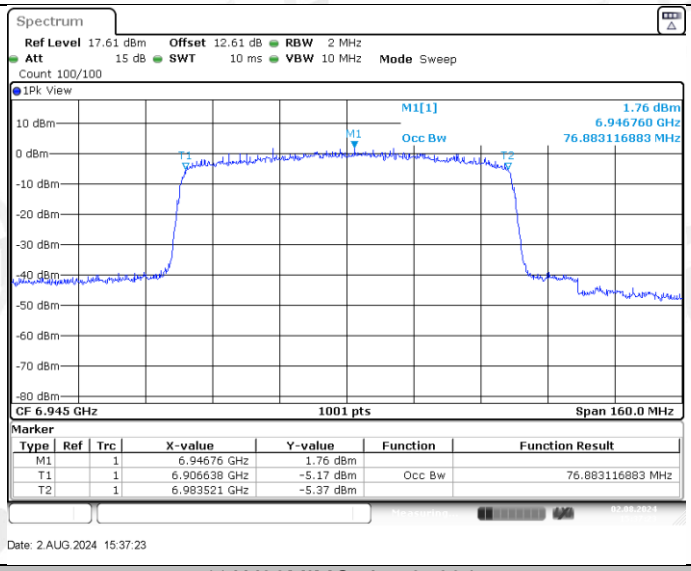

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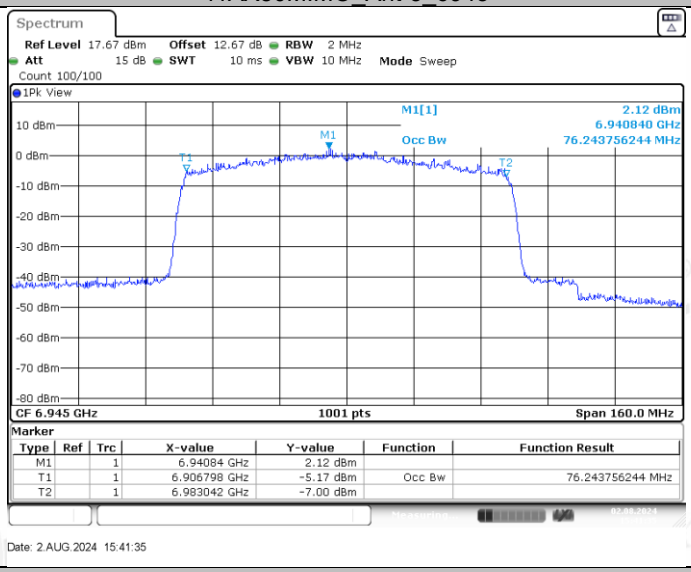

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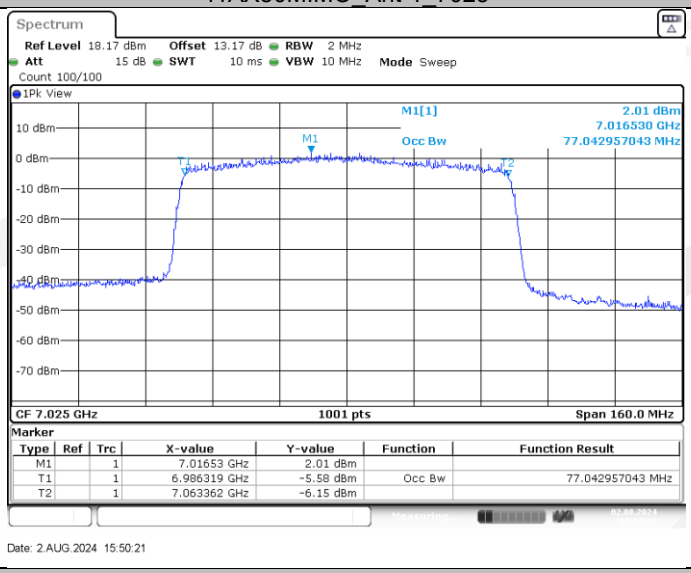

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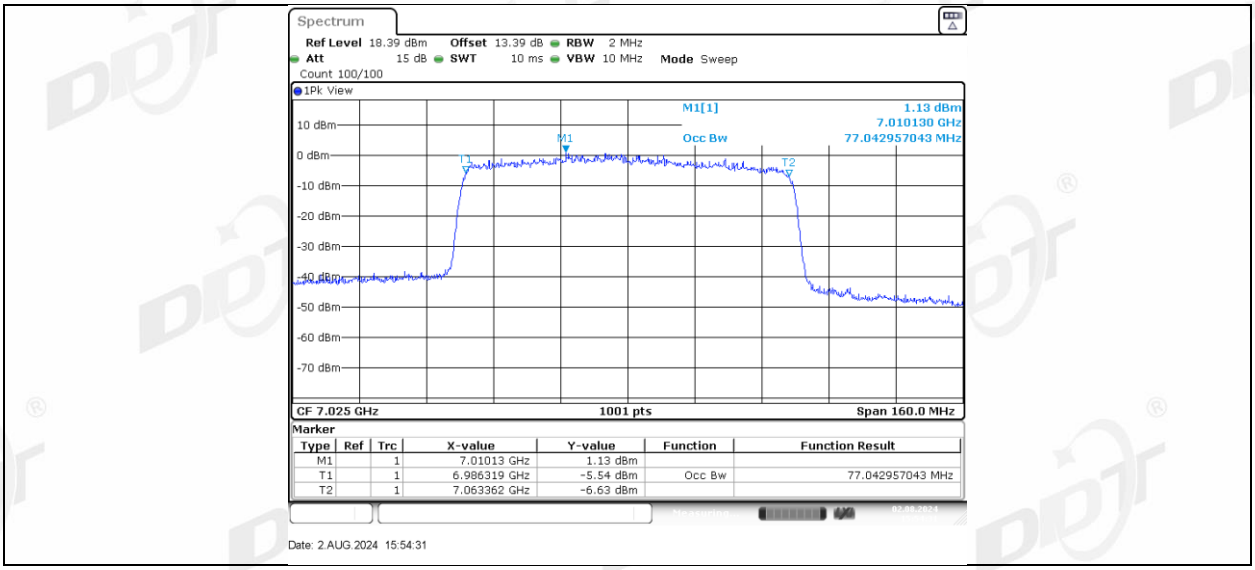
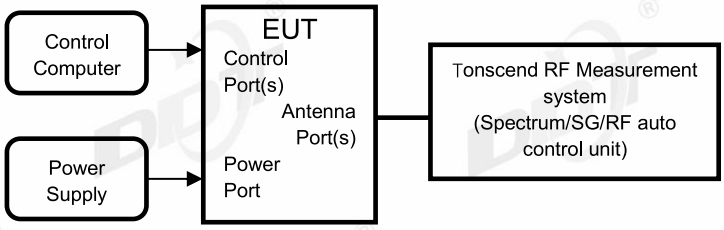

Spectrum
Ref Level 18.39 dBm Offset 13.39 dB RBW 2 MHz
Att 15 dB SWT 10 ms VBW 10 MHz Mode Sweep
Count 100/100
1Pk View
M1[1] 1.13 dBm
7.010130 GHz
Occ Bw 77.042957043 MHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 7.025 GHz
1001 pts
Span 160.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 7.01013 GHz 1.13 dBm
T1 1 6.986319 GHz -5.54 dBm Occ Bw 77.042957043 MHz
T2 1 7.063362 GHz -6.63 dBm
Date: 2.AUG.2024 15:54:31

6. Duty Cycle

6.1. Block diagram of test setup



6.2. Limit

Just for Report.

6.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Sweep: Video Trigger

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

Duty cycle= Pulse's on time / Burst cycle

6.4. Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11AX20MIMO	Ant-1	5955	0.55	0.91	60.44	---	---
	Ant-3	5955	0.56	0.92	60.87	---	---
	Ant-1	6175	0.55	0.91	60.44	---	---
	Ant-3	6175	0.55	0.91	60.44	---	---
	Ant-1	6415	0.55	0.91	60.44	---	---
	Ant-3	6415	0.56	0.94	59.57	---	---
	Ant-1	6435	0.56	0.95	58.95	---	---
	Ant-3	6435	0.55	0.91	60.44	---	---
	Ant-1	6475	0.56	0.92	60.87	---	---
	Ant-3	6475	0.56	0.92	60.87	---	---
	Ant-1	6515	0.56	0.95	58.95	---	---
	Ant-3	6515	0.55	0.91	60.44	---	---
	Ant-1	6535	0.56	0.95	58.95	---	---
	Ant-3	6535	0.56	0.94	59.57	---	---
	Ant-1	6695	0.55	0.91	60.44	---	---
	Ant-3	6695	0.56	0.92	60.87	---	---
	Ant-1	6855	0.55	0.91	60.44	---	---
	Ant-3	6855	0.56	0.92	60.87	---	---
	Ant-1	6875	0.56	0.95	58.95	---	---
	Ant-3	6875	0.55	0.91	60.44	---	---
	Ant-1	6895	0.20	0.40	50.00	---	---
	Ant-3	6895	0.20	0.40	50.00	---	---
	Ant-1	6995	0.20	0.40	50.00	---	---
	Ant-3	6995	0.20	0.40	50.00	---	---
	Ant-1	7095	0.20	0.40	50.00	---	---
	Ant-3	7095	0.20	0.40	50.00	---	---
	Ant-1	7115	0.55	0.91	60.44	---	---
	Ant-3	7115	0.56	0.92	60.87	---	---
11AX40MIMO	Ant-1	5965	0.32	0.71	45.07	---	---
	Ant-3	5965	0.32	0.70	45.71	---	---
	Ant-1	6165	0.32	0.71	45.07	---	---
	Ant-3	6165	0.32	0.71	45.07	---	---
	Ant-1	6405	0.32	0.71	45.07	---	---
	Ant-3	6405	0.32	0.70	45.71	---	---
	Ant-1	6445	0.32	0.71	45.07	---	---
	Ant-3	6445	0.32	0.71	45.07	---	---
	Ant-1	6485	0.32	0.71	45.07	---	---
	Ant-3	6485	0.32	0.71	45.07	---	---
	Ant-1	6525	0.32	0.71	45.07	---	---
	Ant-3	6525	0.32	0.71	45.07	---	---
	Ant-1	6565	0.32	0.71	45.07	---	---
	Ant-3	6565	0.32	0.71	45.07	---	---
	Ant-1	6685	0.32	0.71	45.07	---	---
	Ant-3	6685	0.32	0.71	45.07	---	---
	Ant-1	6845	0.32	0.71	45.07	---	---
	Ant-3	6845	0.32	0.71	45.07	---	---
	Ant-1	6885	0.32	0.71	45.07	---	---
	Ant-3	6885	0.32	0.71	45.07	---	---
	Ant-1	6925	0.32	0.70	45.71	---	---
	Ant-3	6925	0.32	0.71	45.07	---	---
	Ant-1	6965	0.32	0.71	45.07	---	---
	Ant-3	6965	0.32	0.71	45.07	---	---
	Ant-1	7085	0.32	0.70	45.71	---	---
	Ant-3	7085	0.32	0.70	45.71	---	---
11AX80MIMO	Ant-1	5985	0.19	0.43	44.19	---	---
	Ant-3	5985	0.19	0.44	43.18	---	---
	Ant-1	6145	0.19	0.45	42.22	---	---
	Ant-3	6145	0.19	0.44	43.18	---	---
	Ant-1	6385	0.20	0.44	45.45	---	---