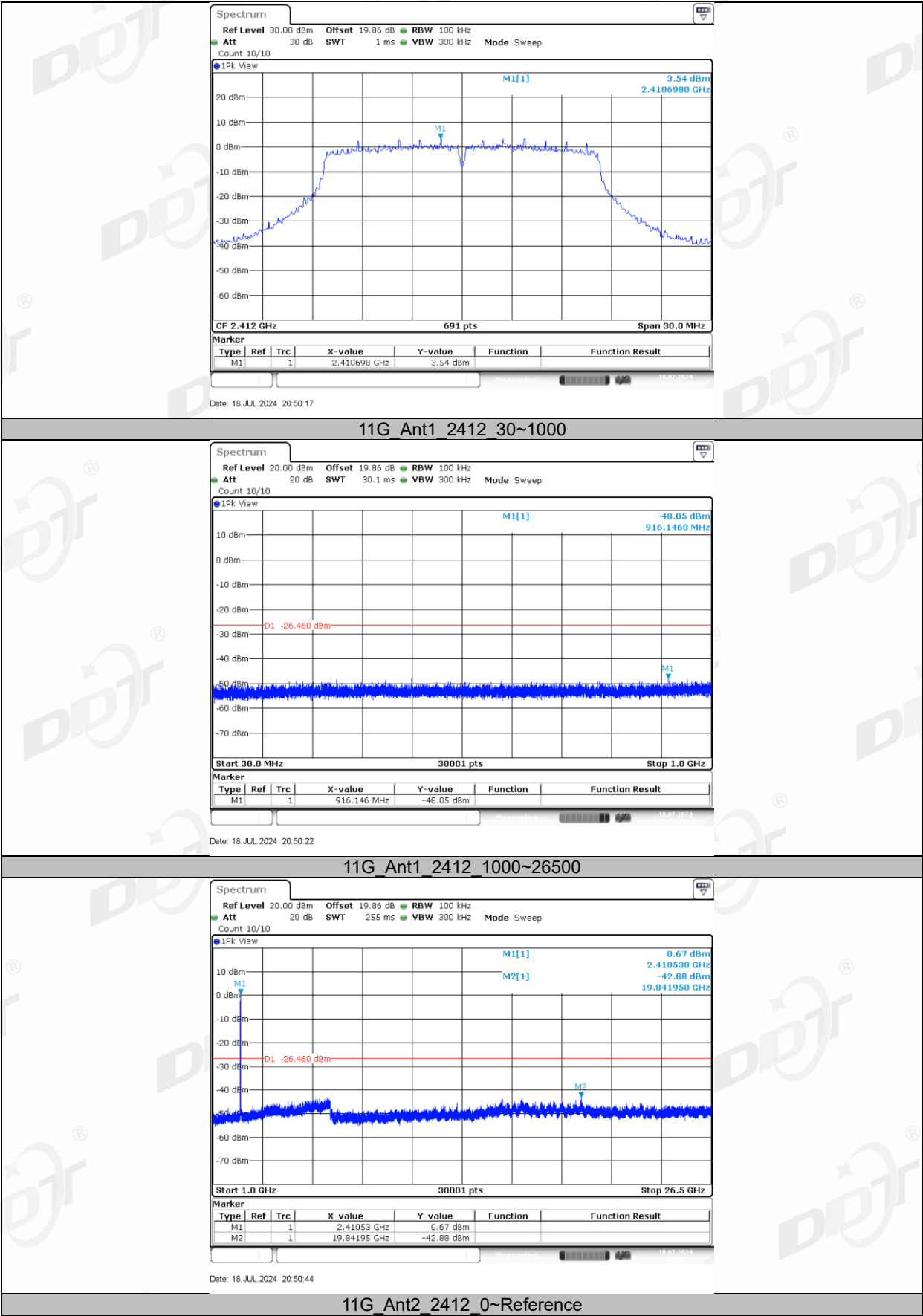
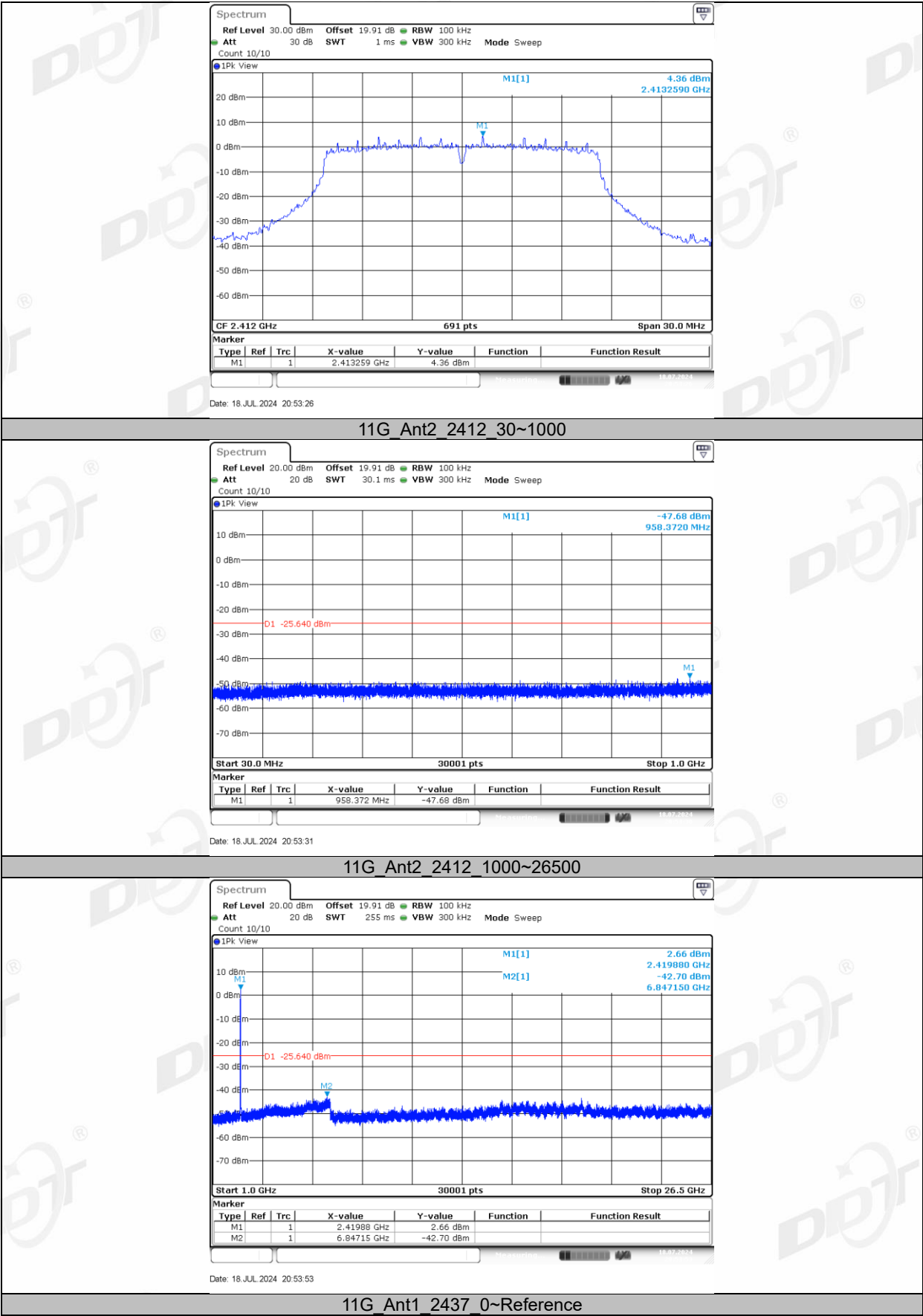
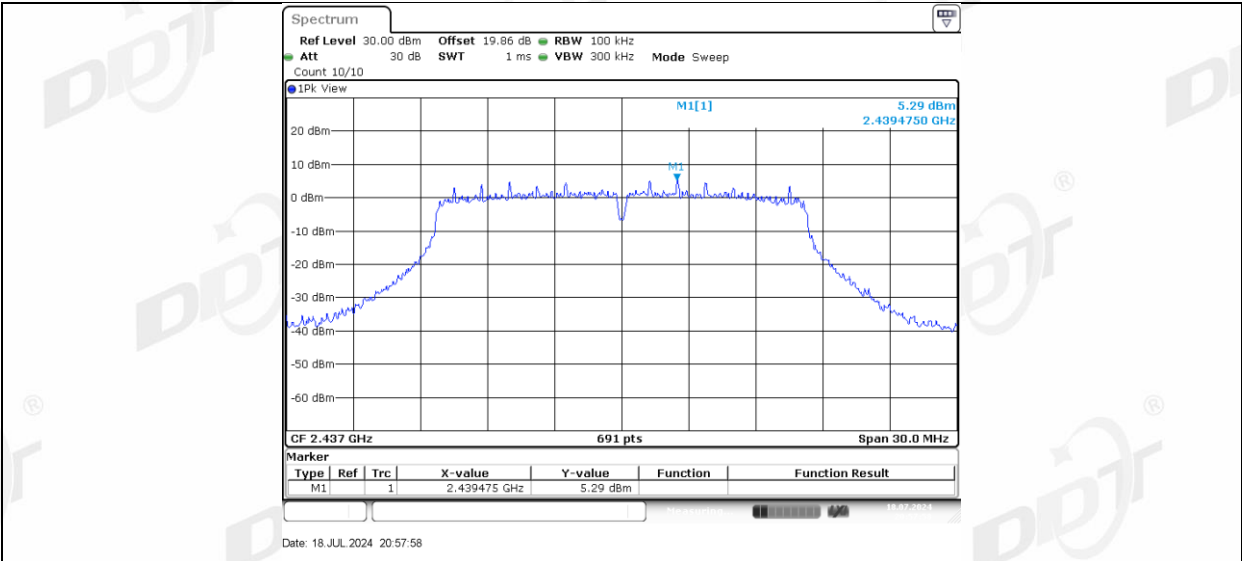
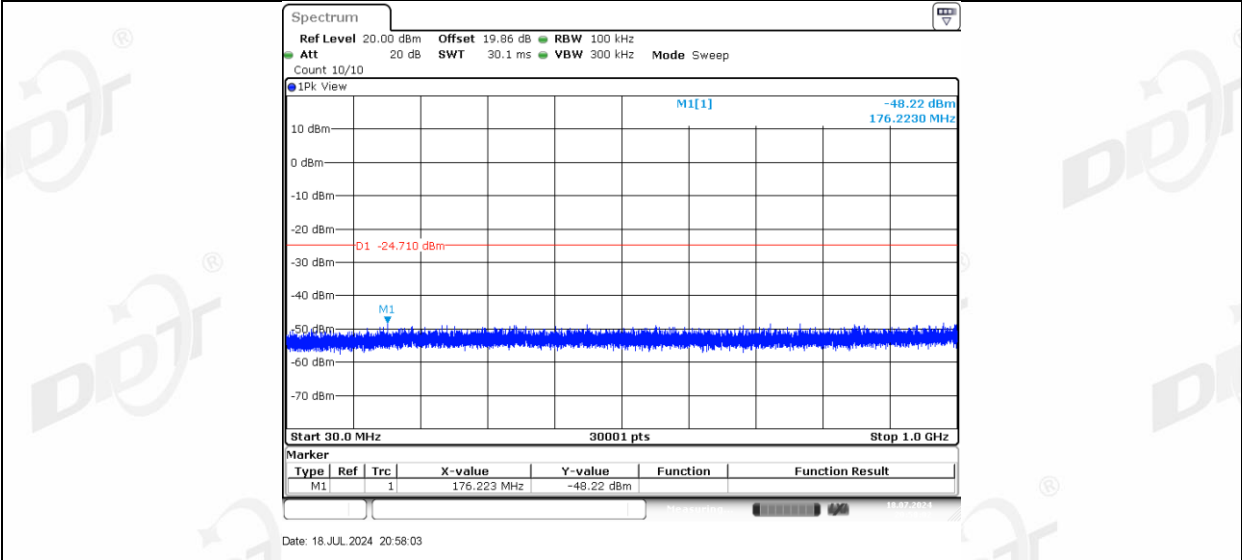




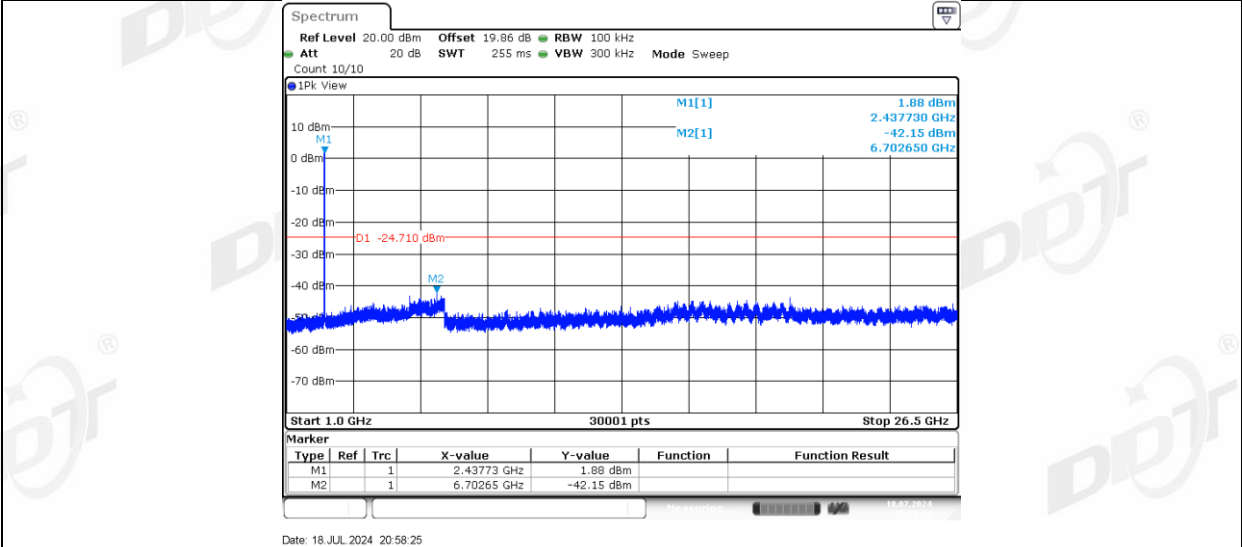




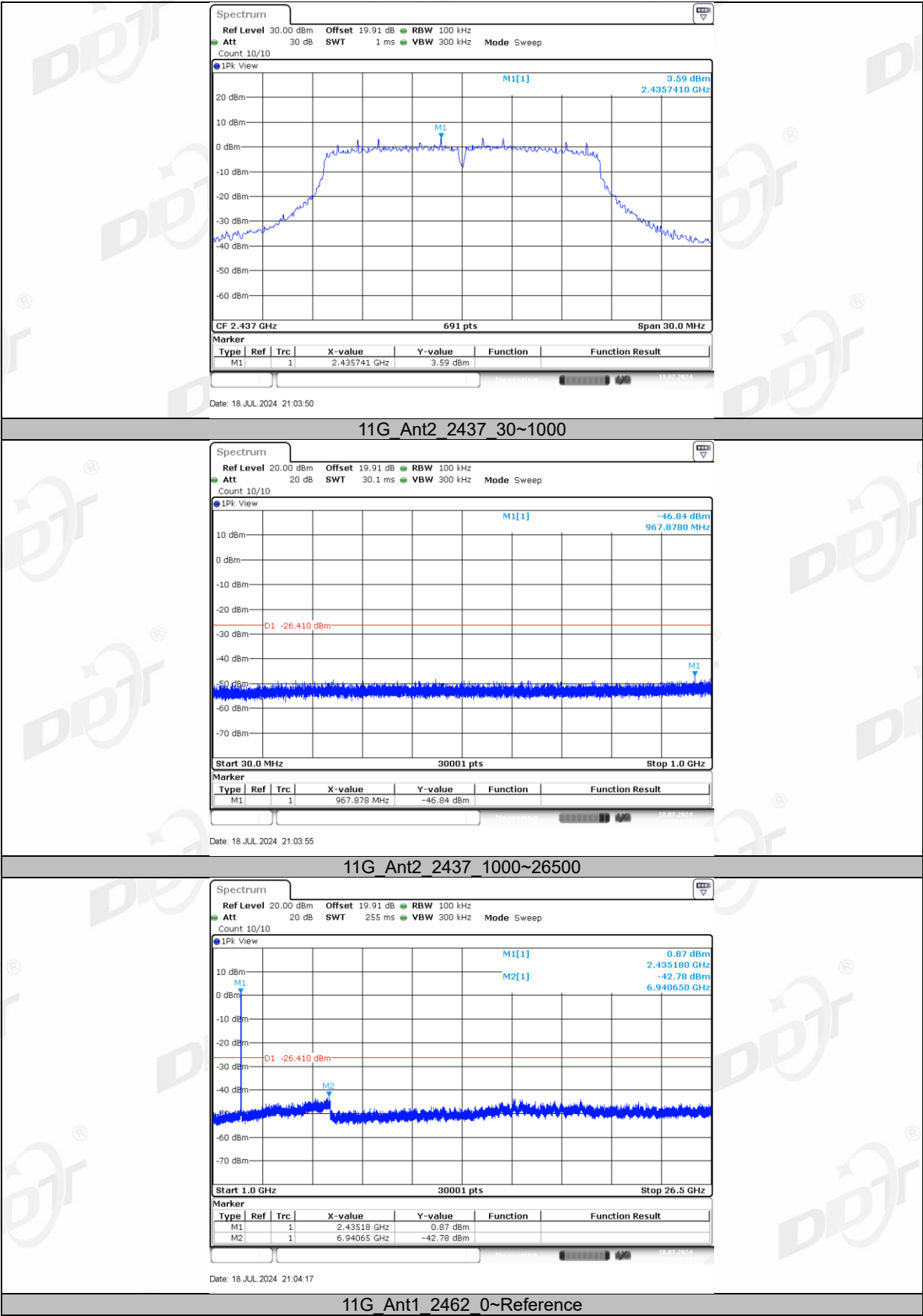
11G_Ant1_2437_30~1000

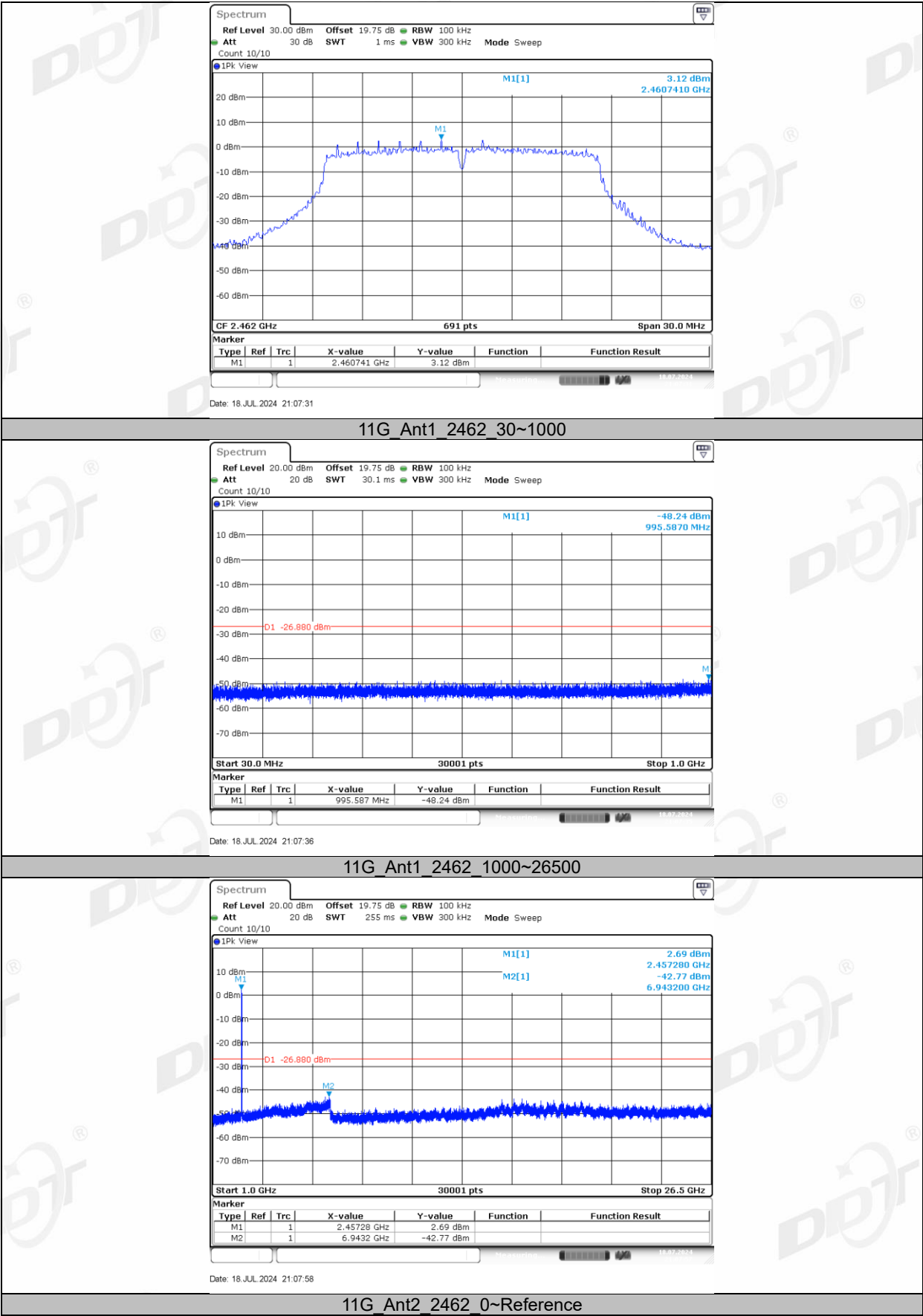


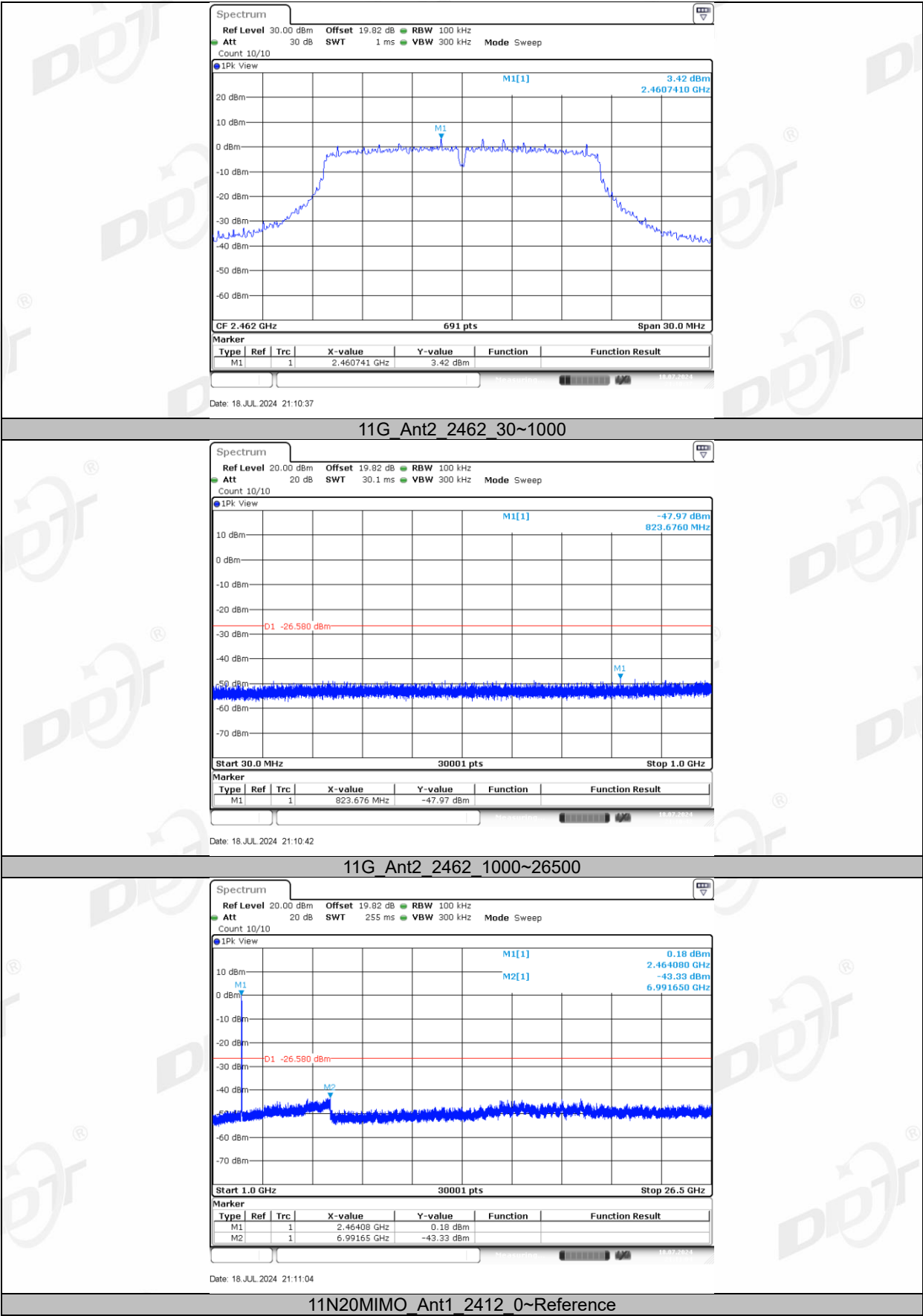
11G_Ant1_2437_1000~26500

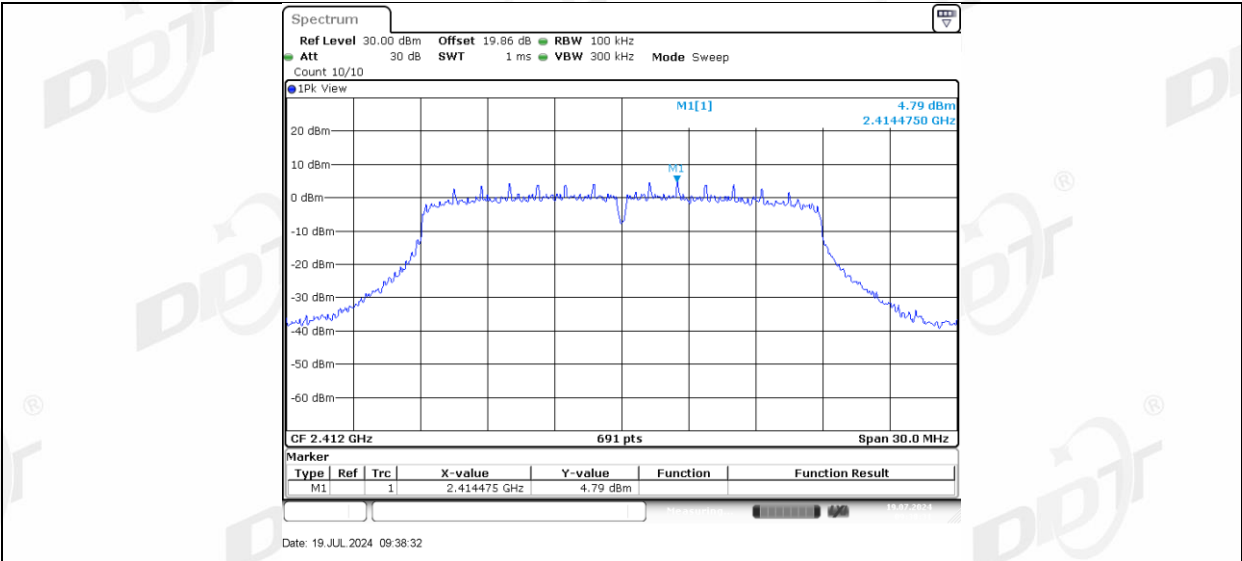


11G_Ant2_2437_0~Reference

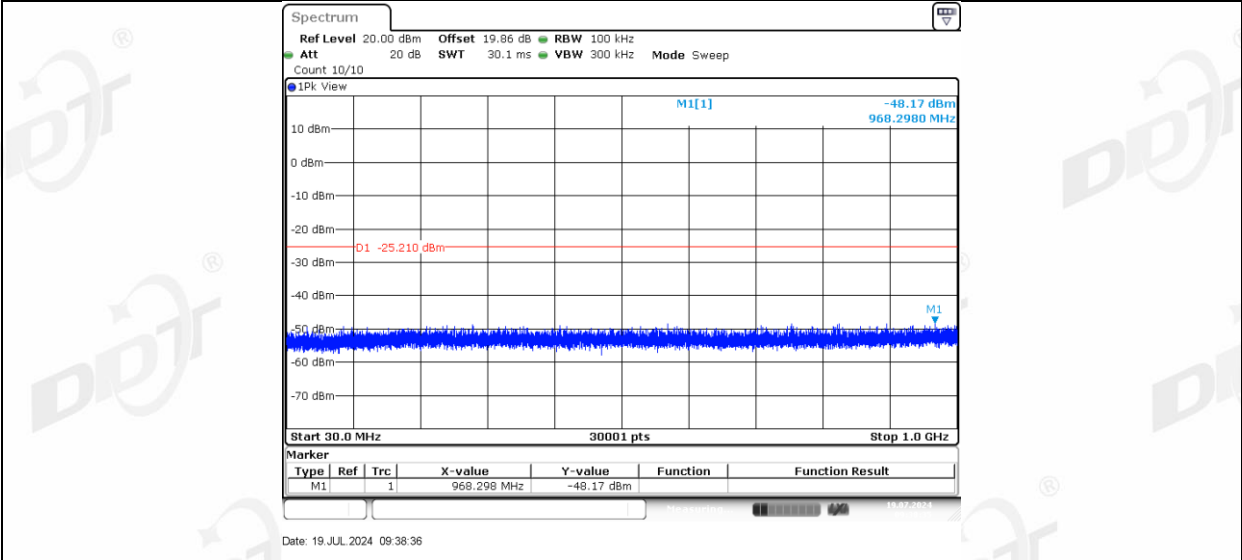




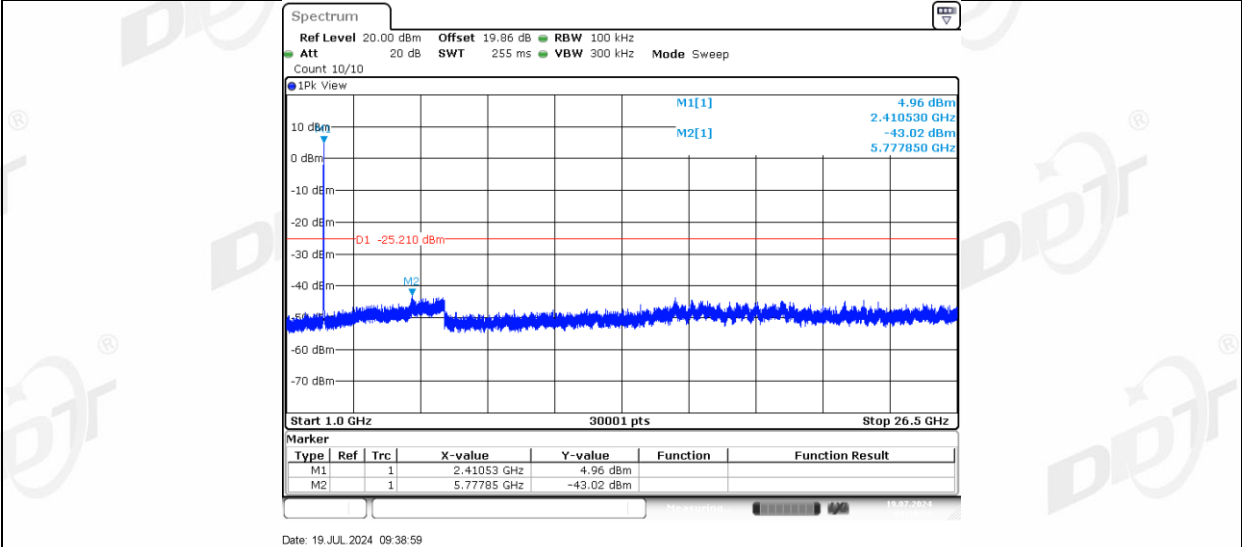




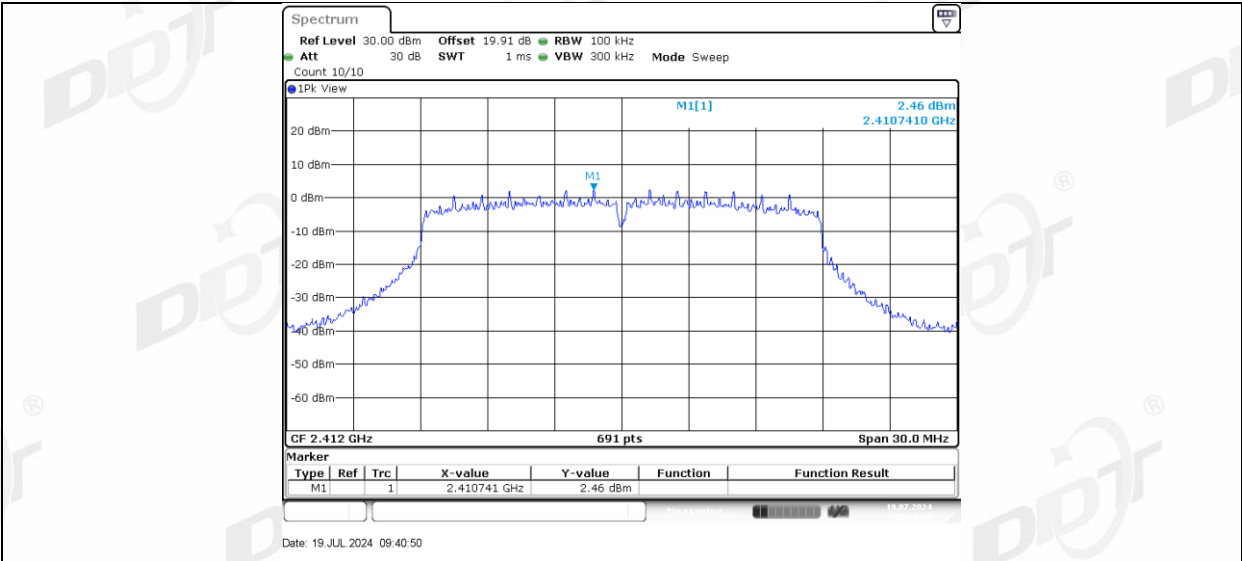
11N20MIMO_Ant1_2412_30~1000



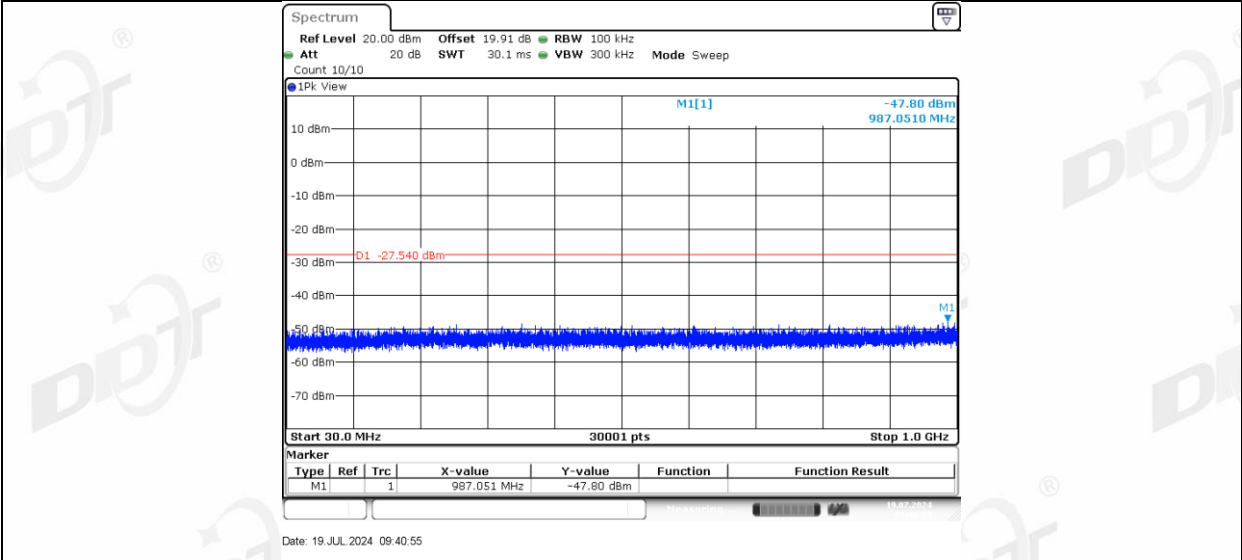
11N20MIMO_Ant1_2412_1000~26500



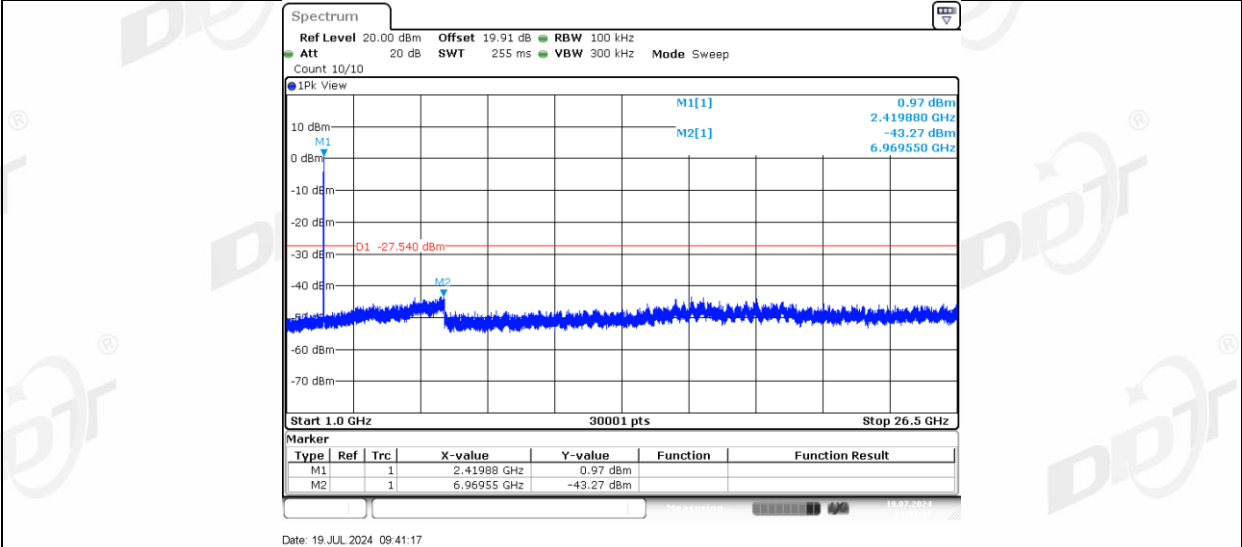
11N20MIMO_Ant2_2412_0~Reference



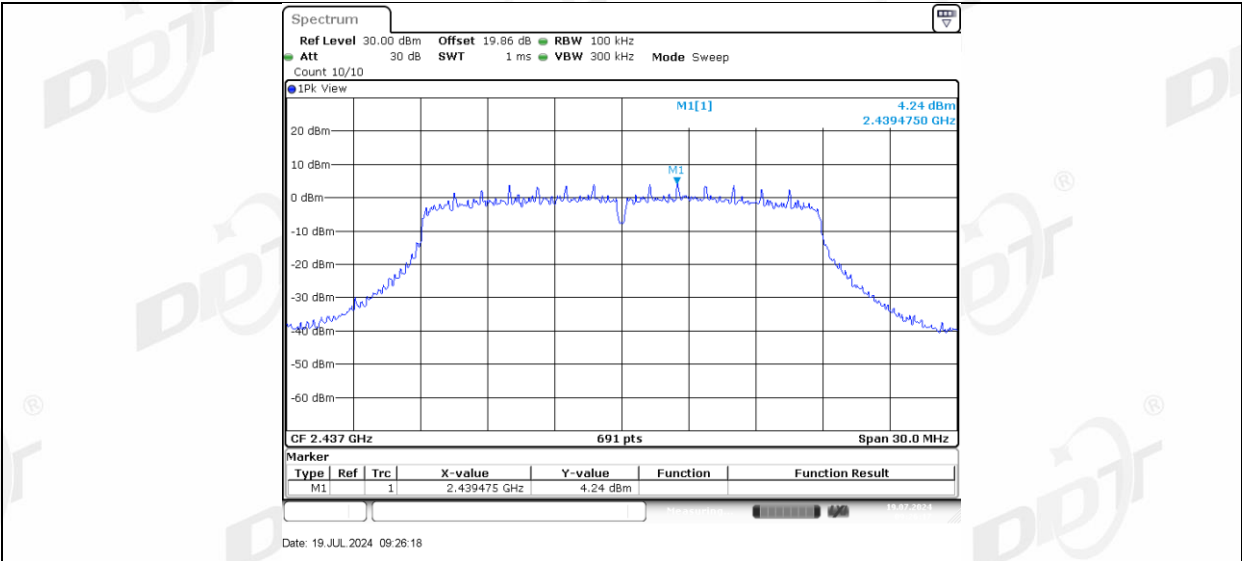
11N20MIMO_Ant2_2412_30~1000



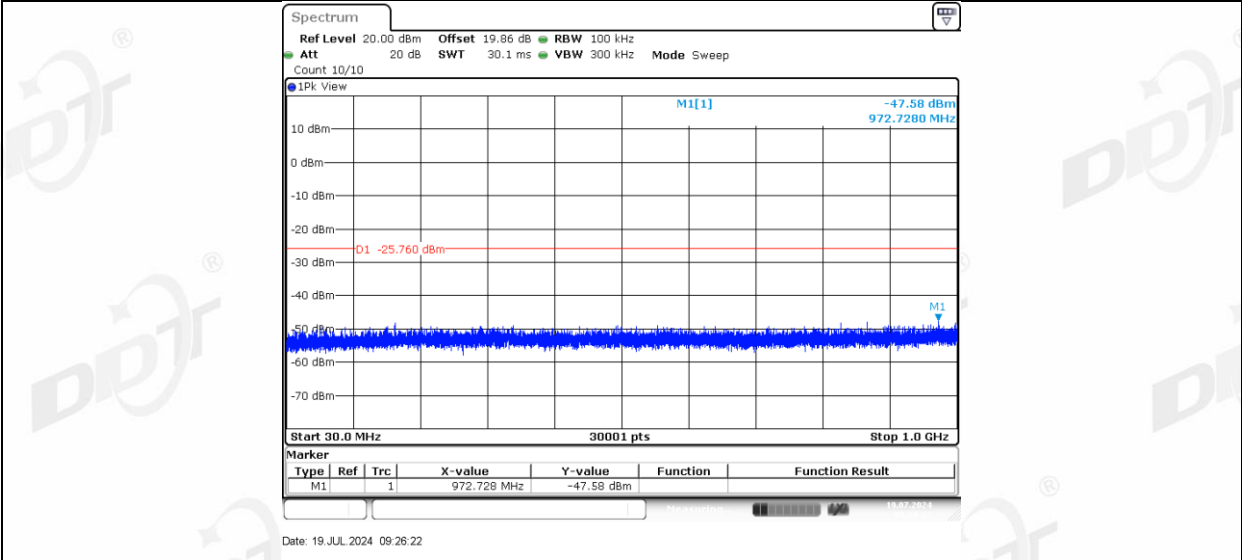
11N20MIMO_Ant2_2412_1000~26500



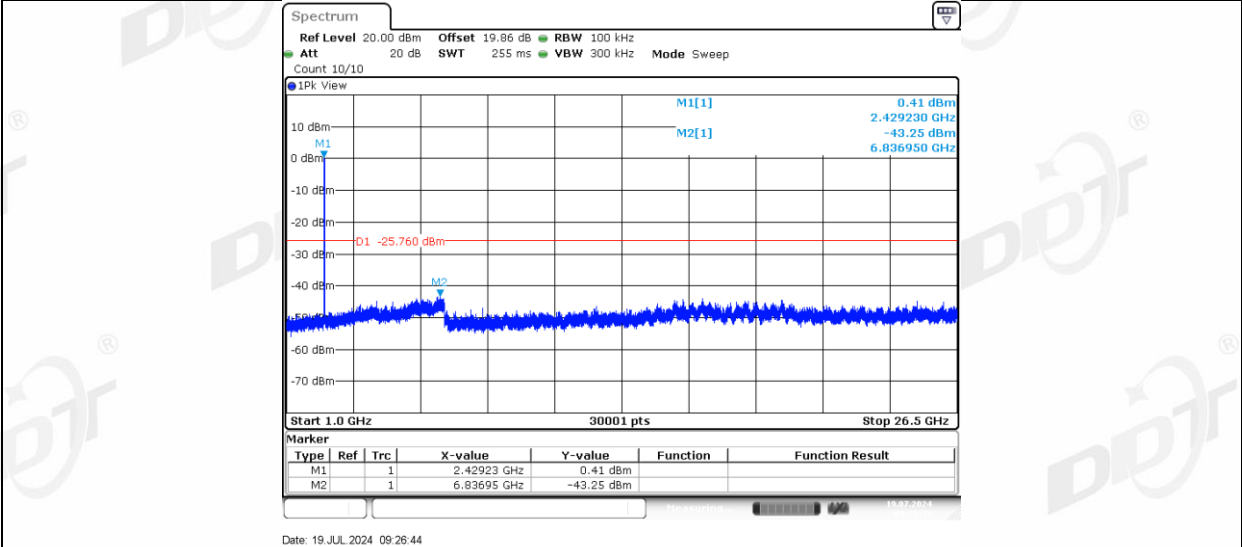
11N20MIMO_Ant1_2437_0~Reference



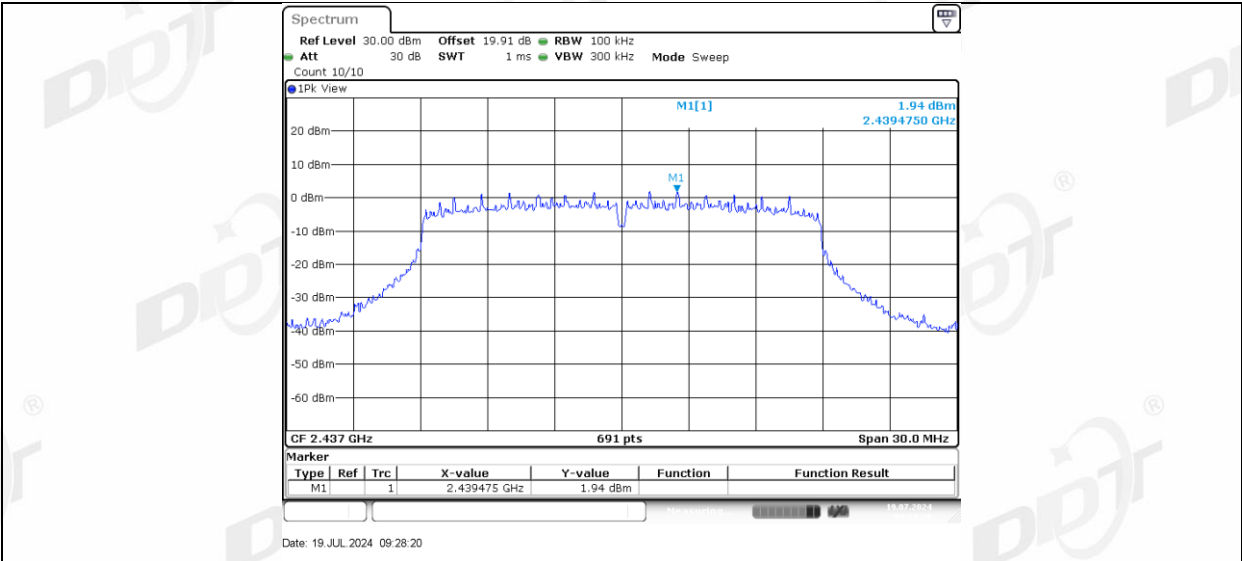
11N20MIMO_Ant1_2437_30~1000



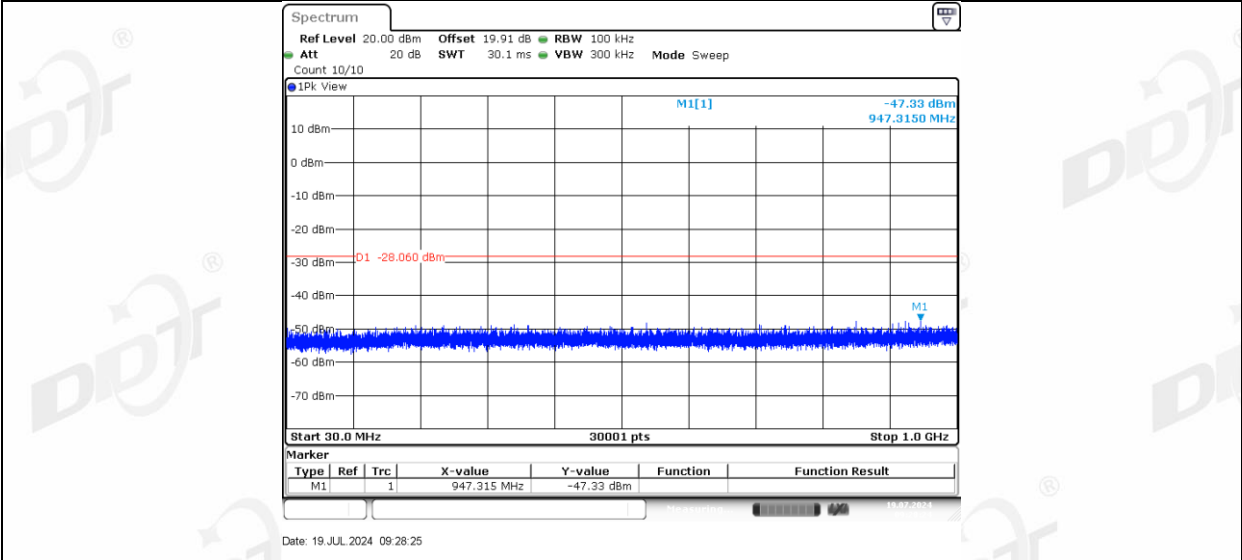
11N20MIMO_Ant1_2437_1000~26500



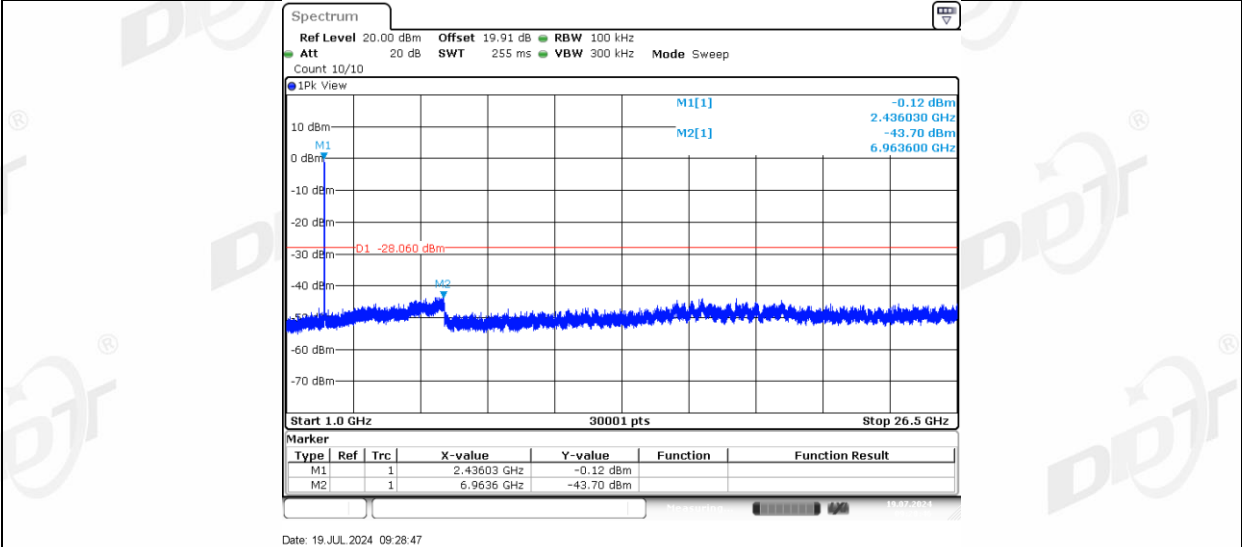
11N20MIMO_Ant2_2437_0~Reference



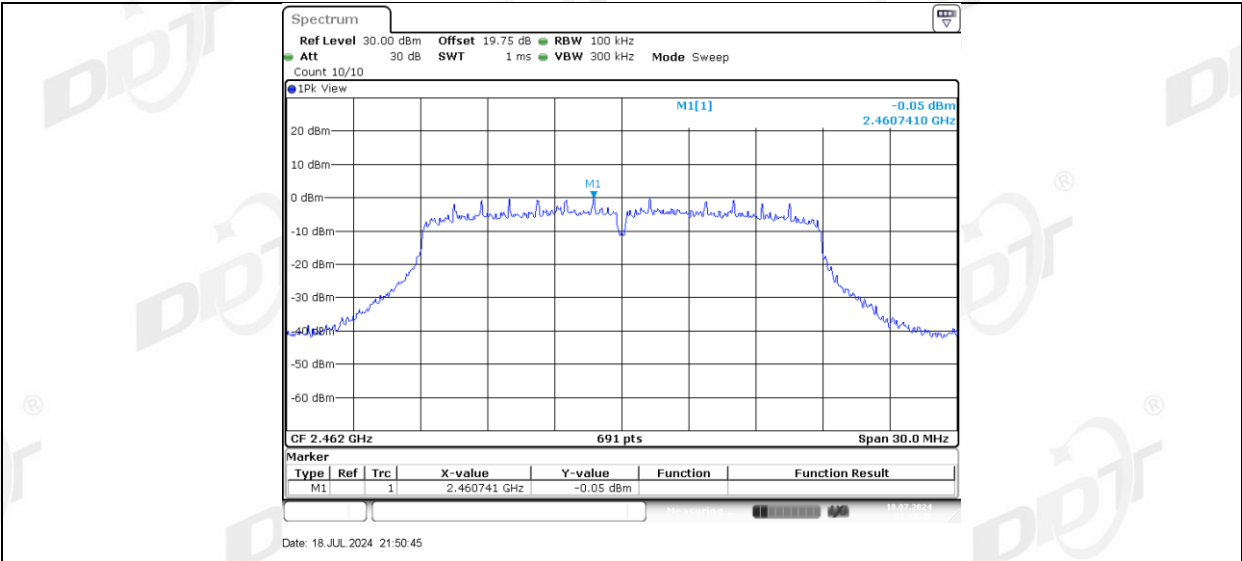
11N20MIMO_Ant2_2437_30~1000



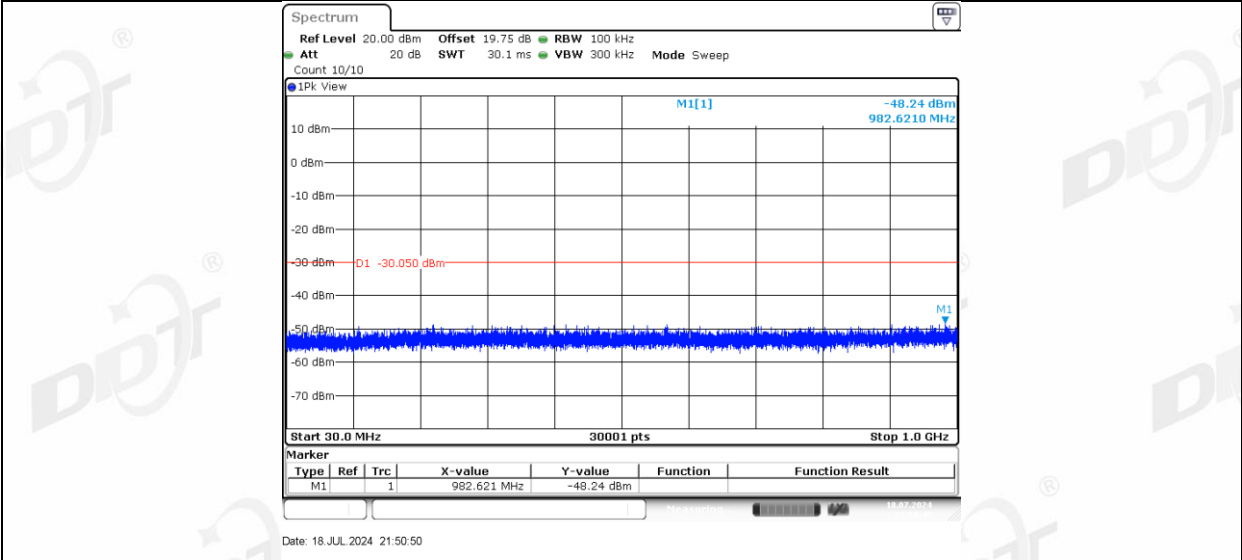
11N20MIMO_Ant2_2437_1000~26500



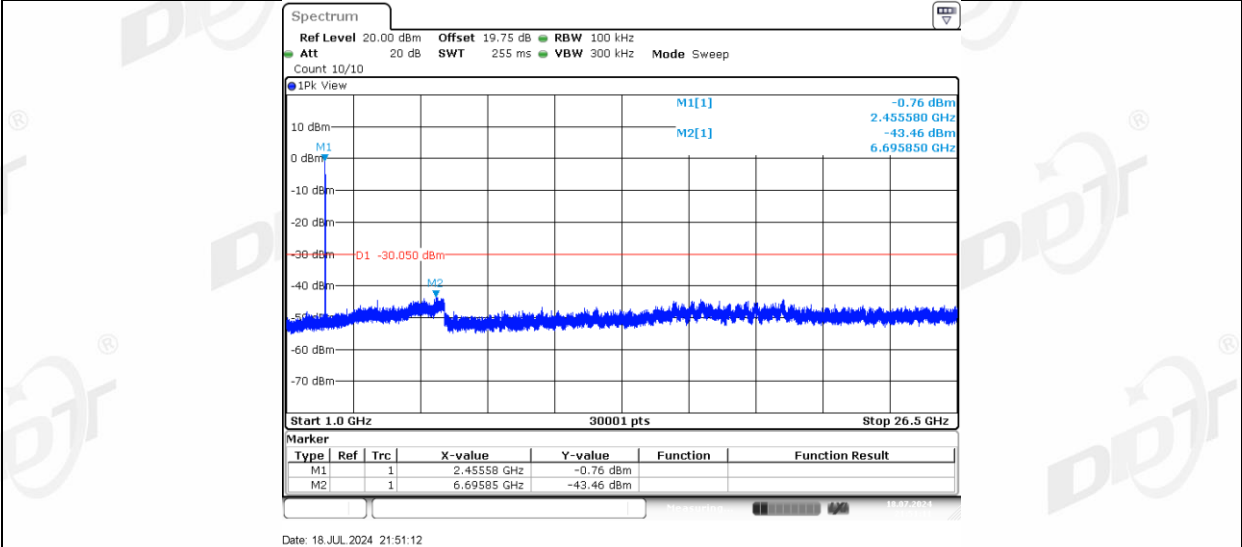
11N20MIMO_Ant1_2462_0~Reference



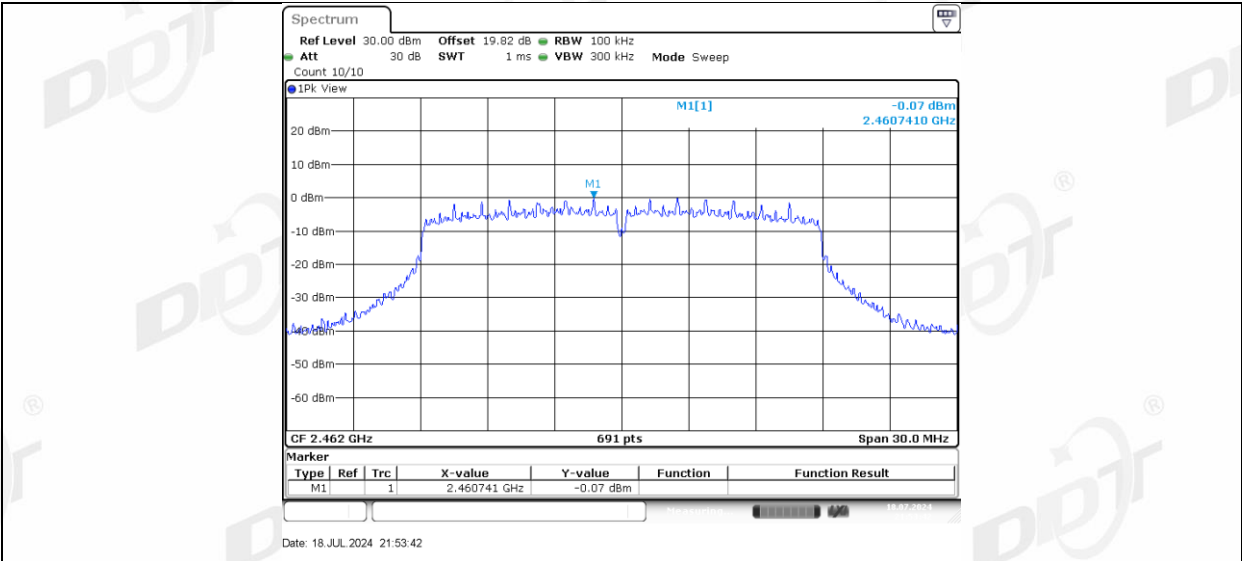
11N20MIMO_Ant1_2462_30~1000



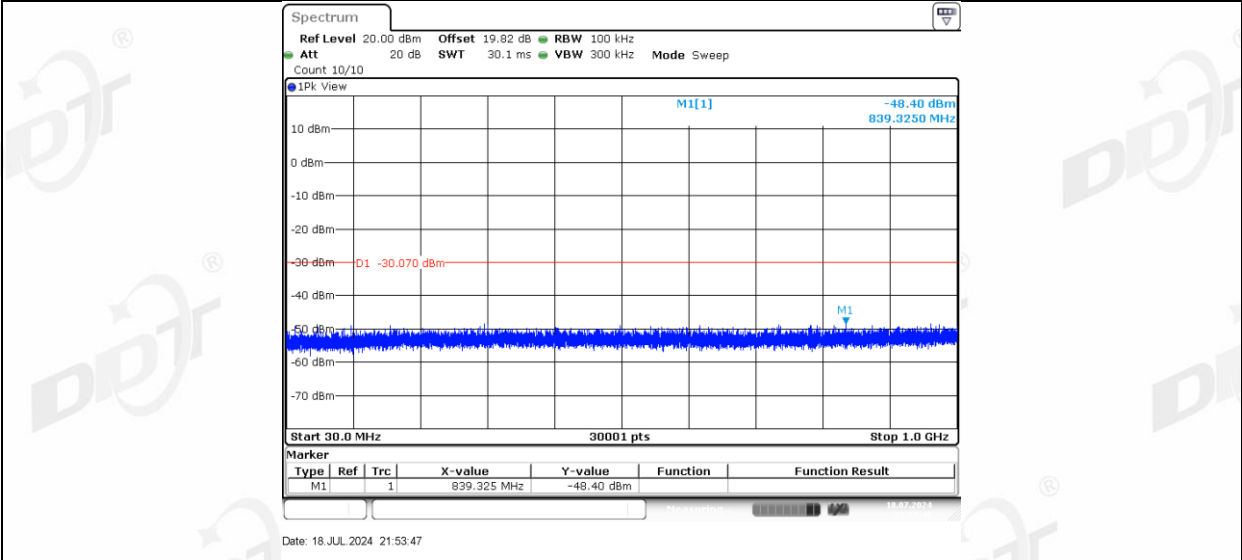
11N20MIMO_Ant1_2462_1000~26500



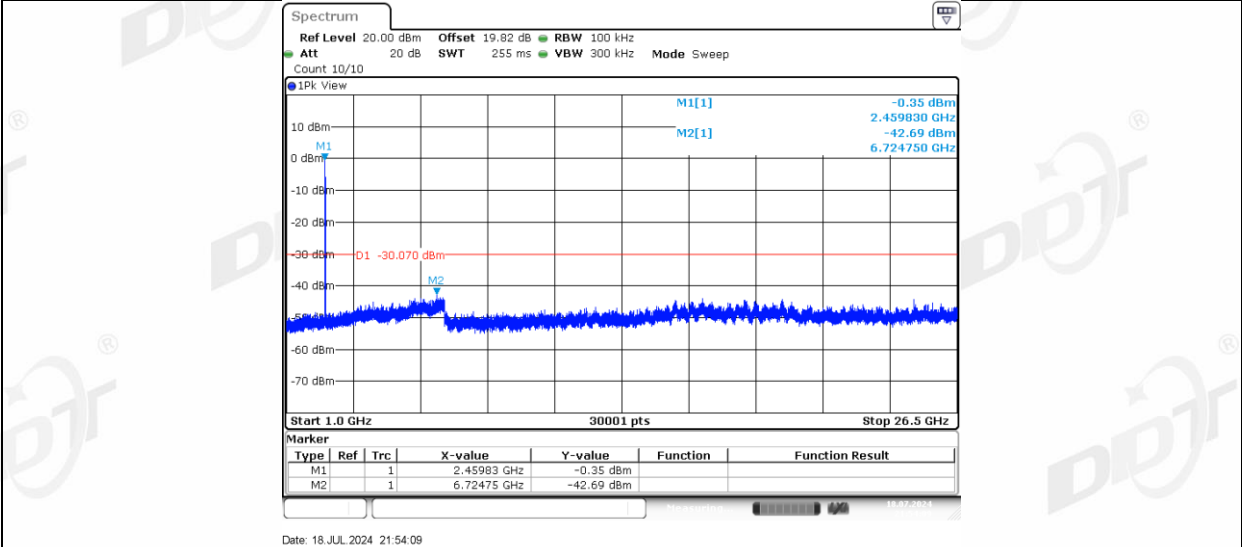
11N20MIMO_Ant2_2462_0~Reference



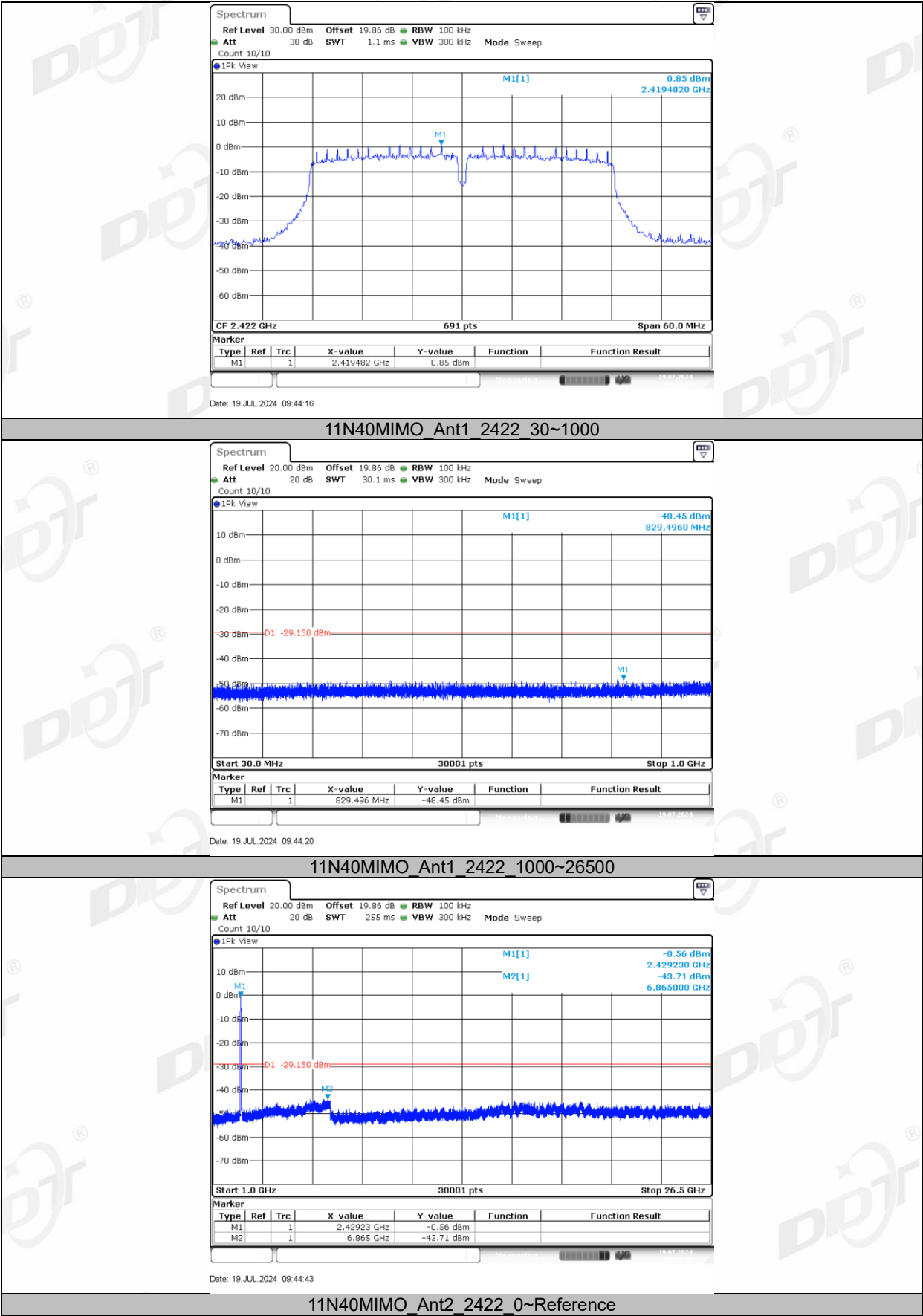
11N20MIMO_Ant2_2462_30~1000

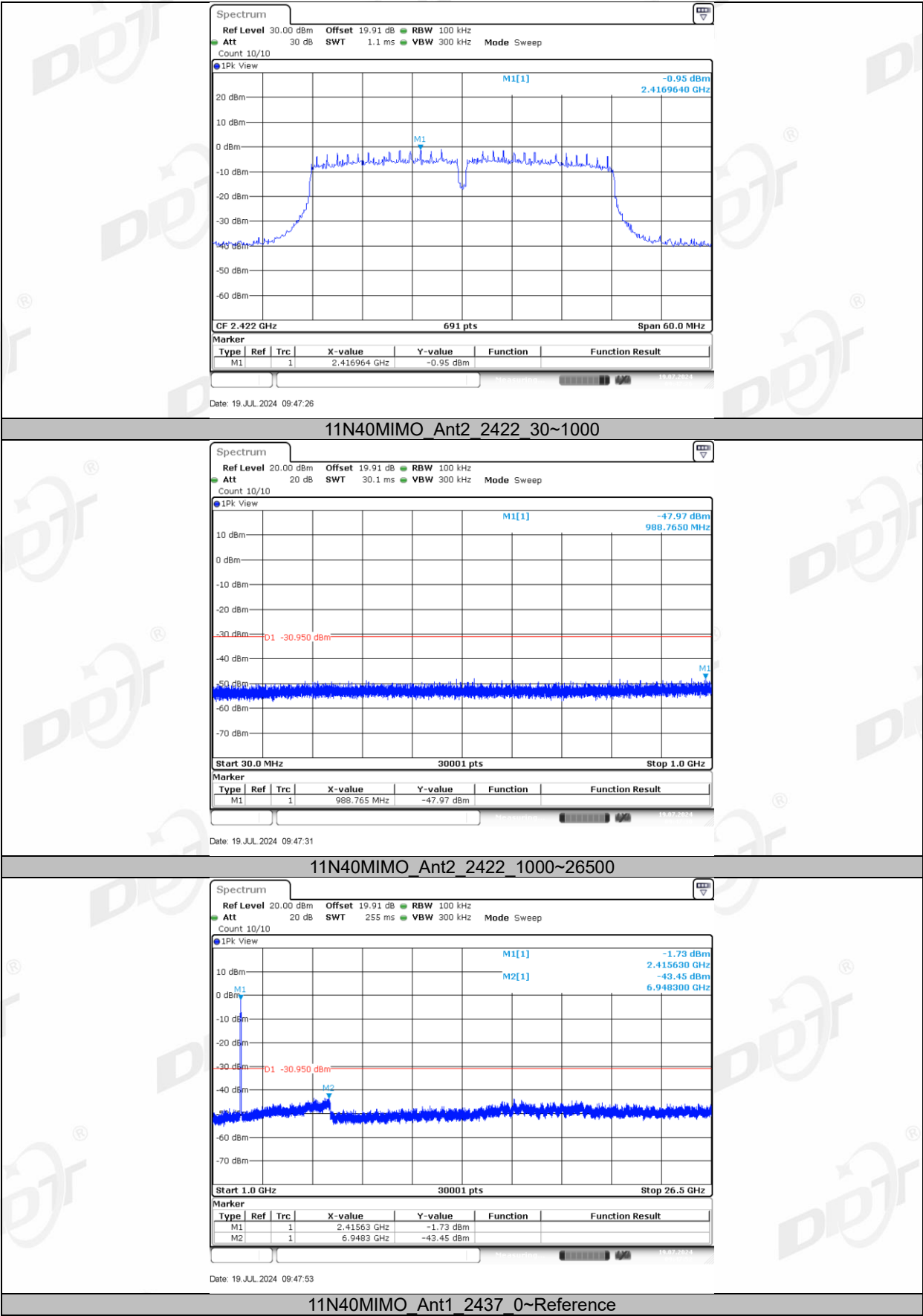


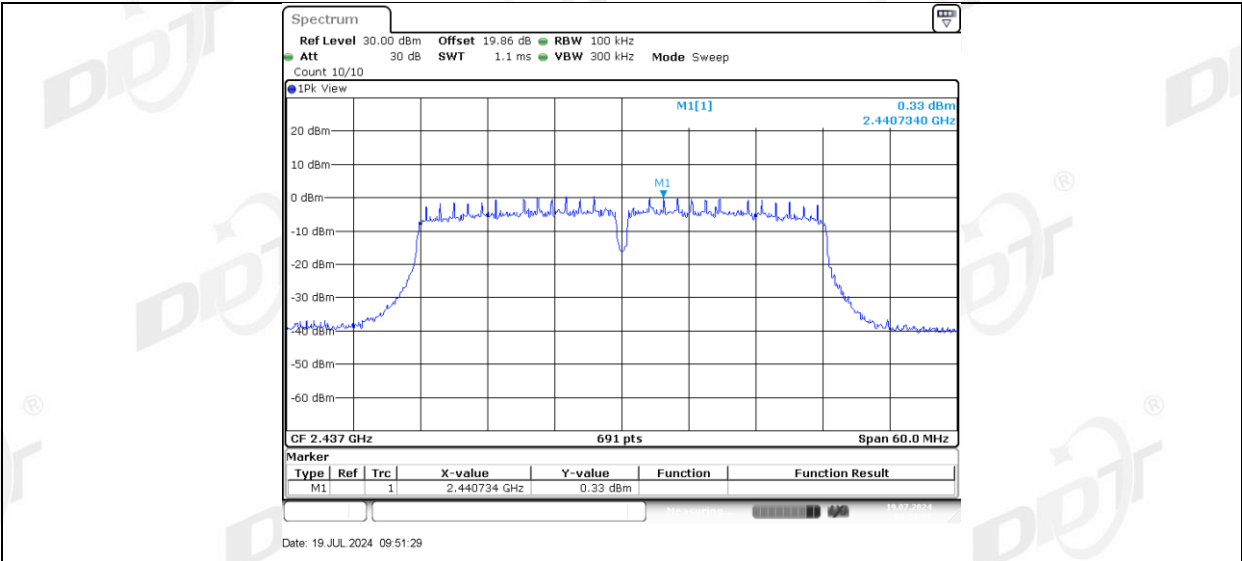
11N20MIMO_Ant2_2462_1000~26500



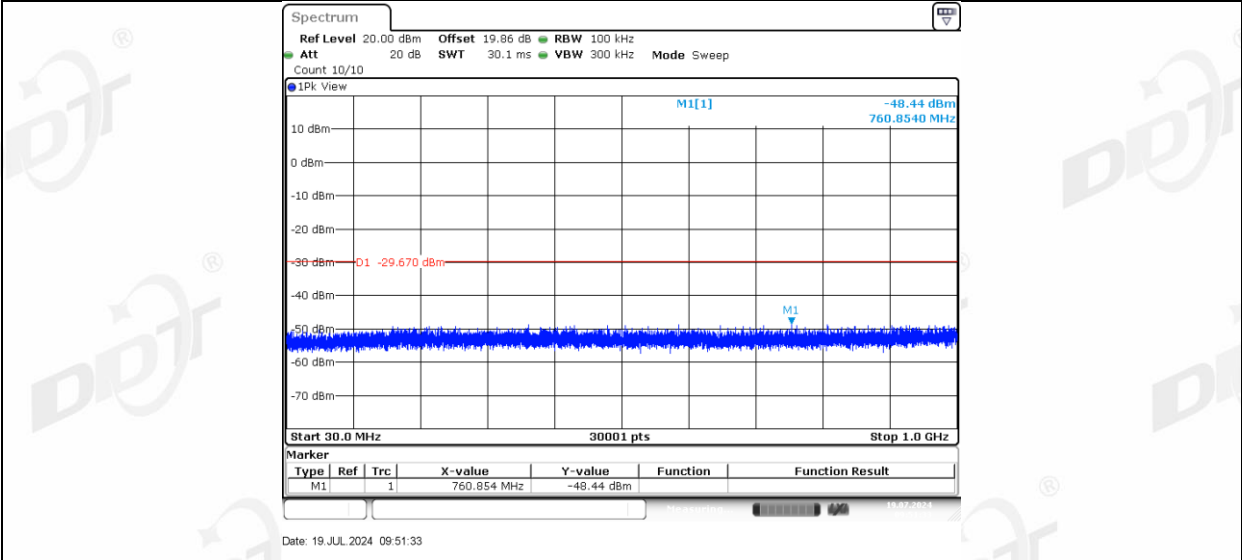
11N40MIMO_Ant1_2422_0~Reference



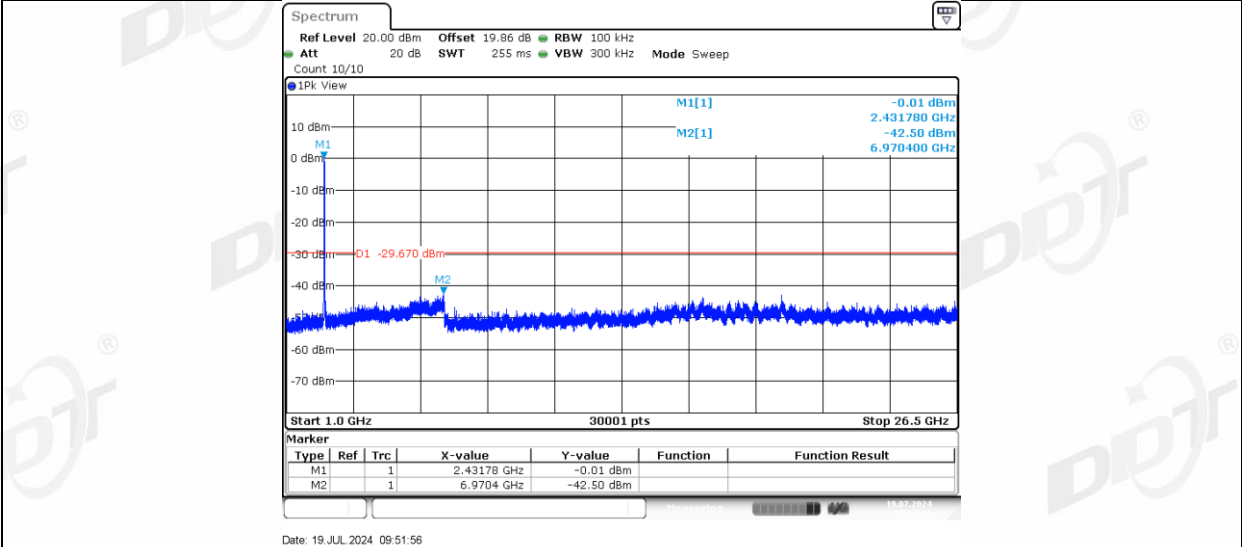




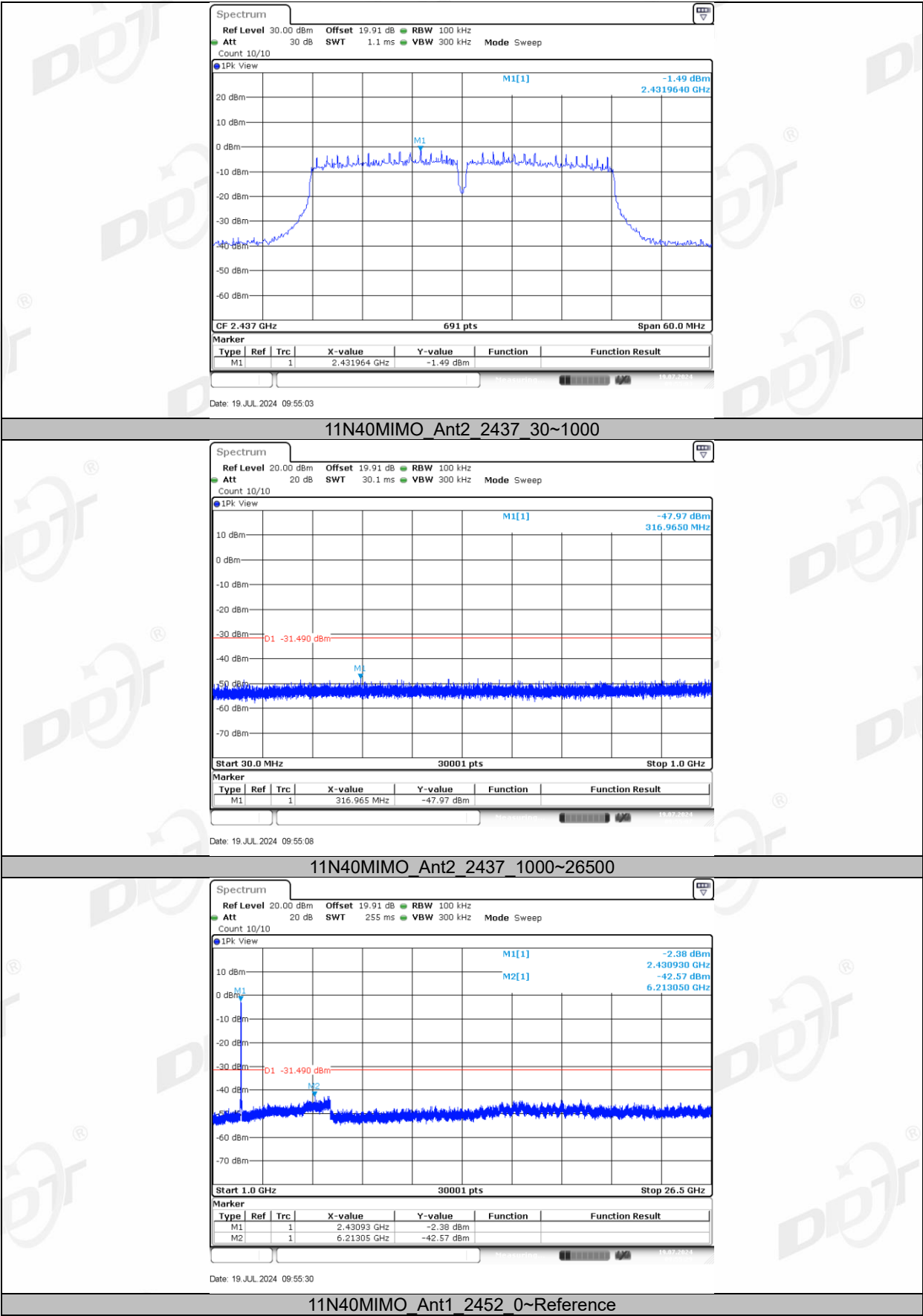
11N40MIMO_Ant1_2437_30~1000

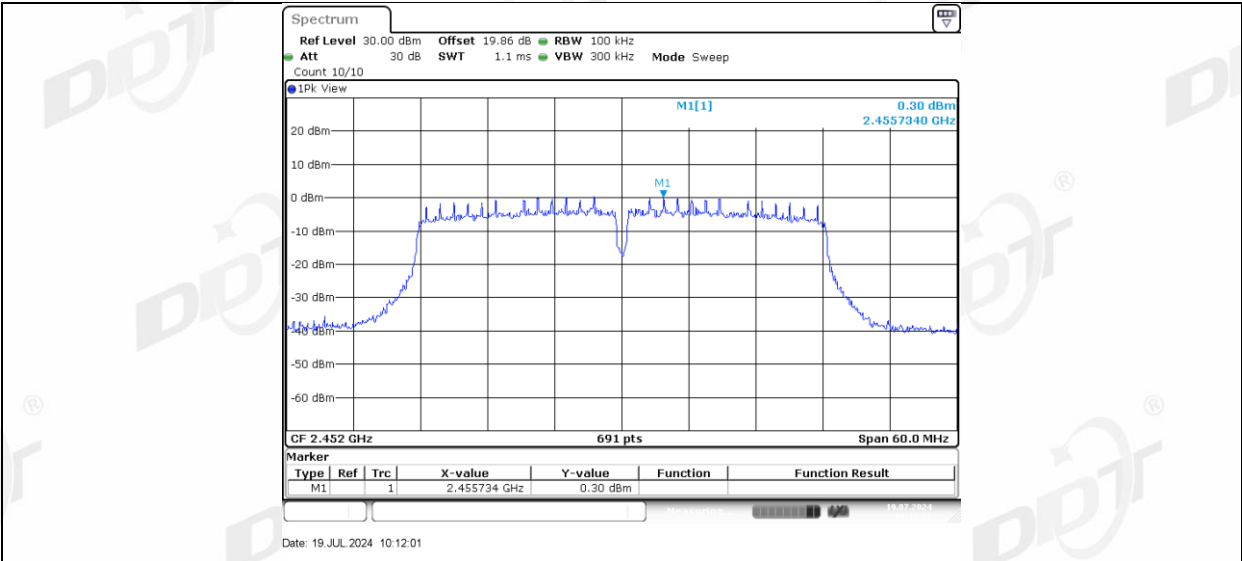


11N40MIMO_Ant1_2437_1000~26500

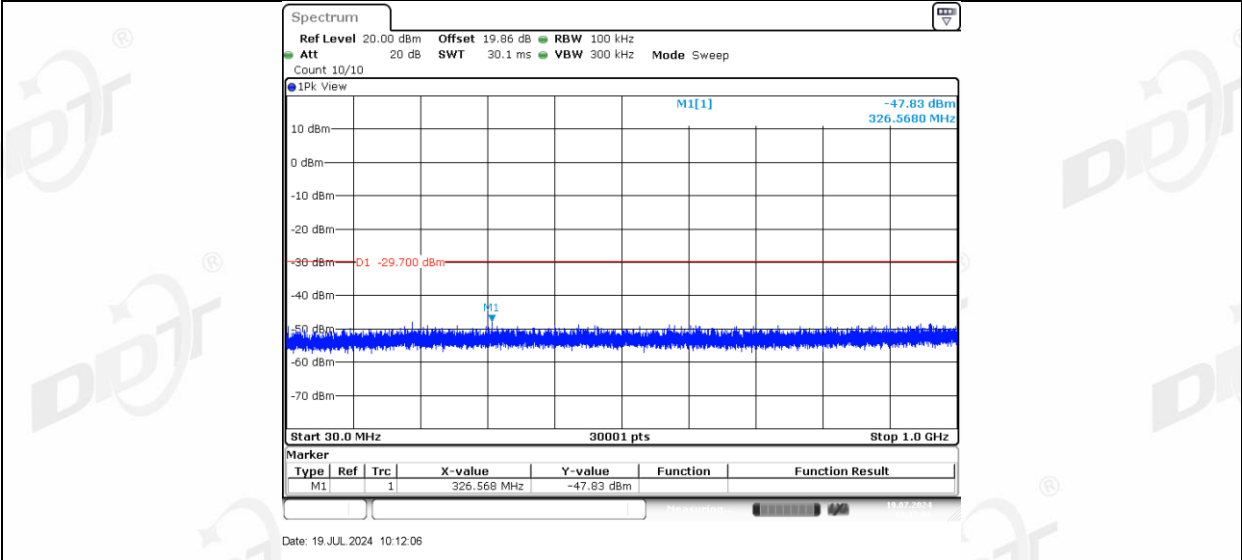


11N40MIMO_Ant2_2437_0~Reference

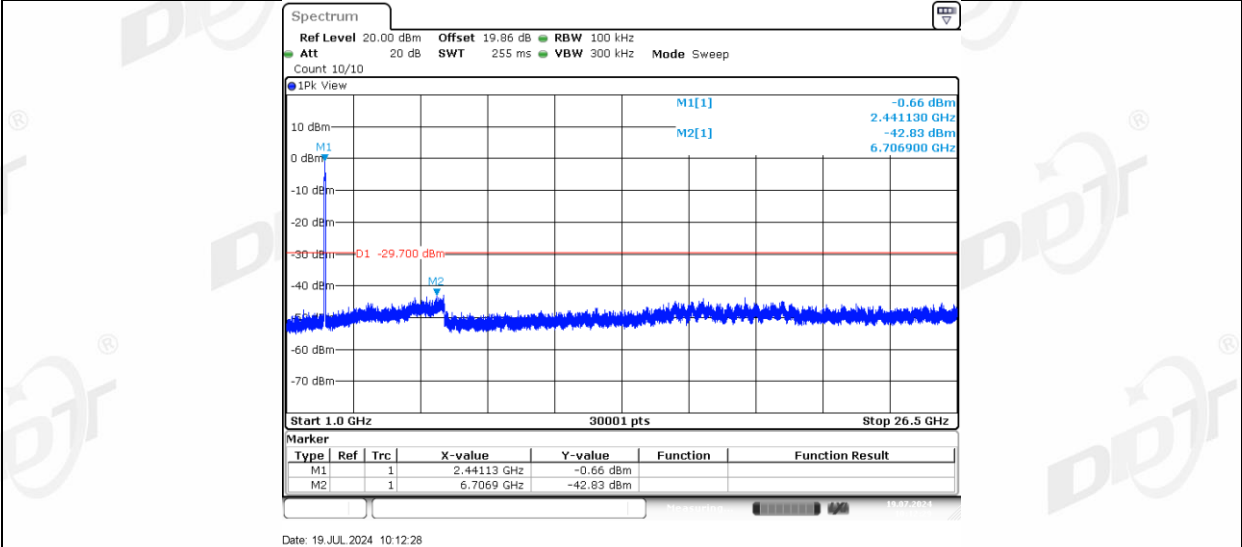




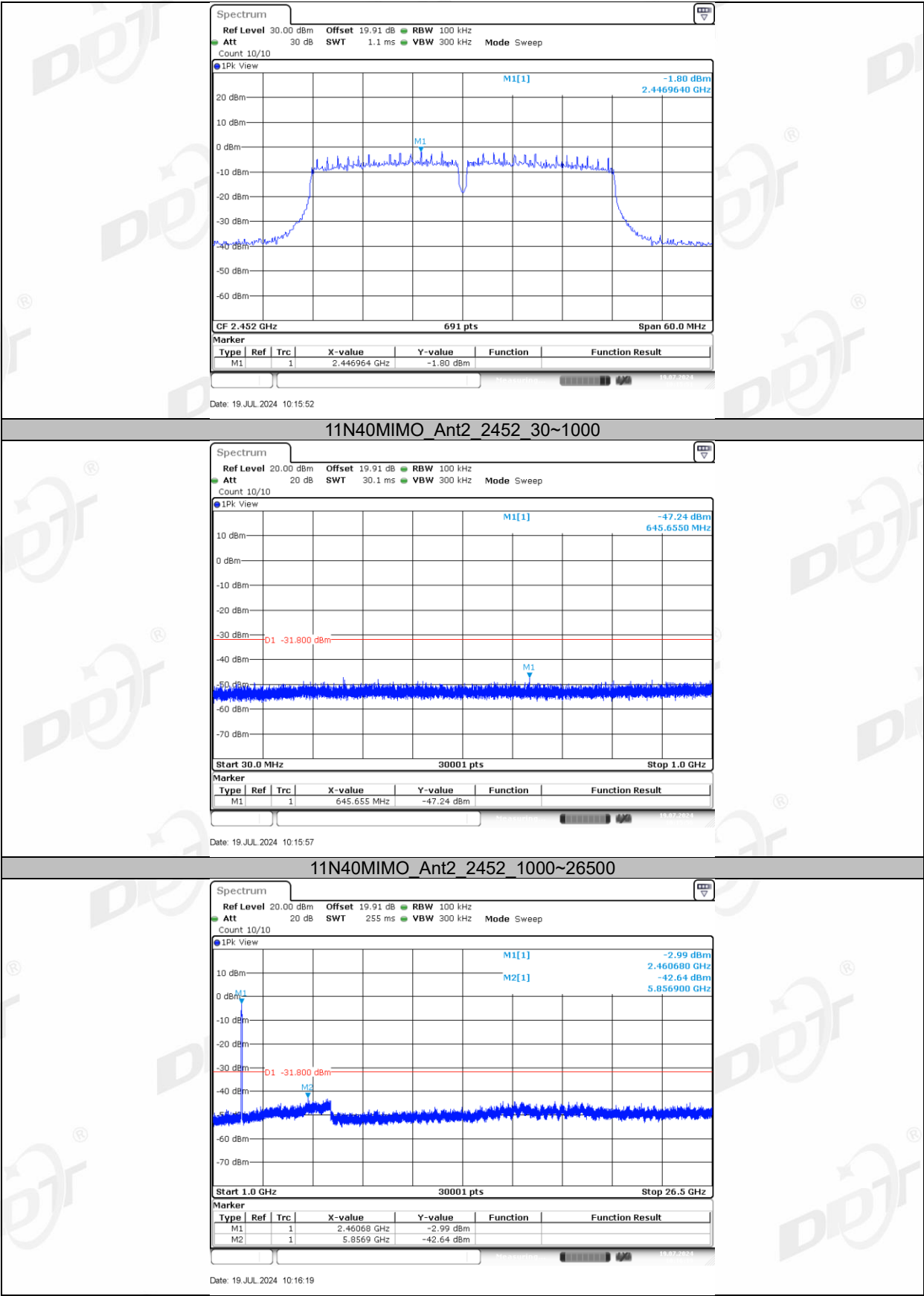
11N40MIMO_Ant1_2452_30~1000



11N40MIMO_Ant1_2452_1000~26500

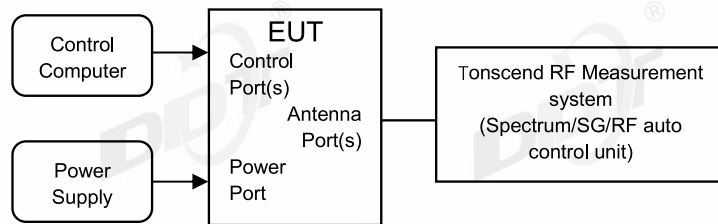


11N40MIMO_Ant2_2452_0~Reference



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. 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.
 - Trace Mode: Clear Write.
 - 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

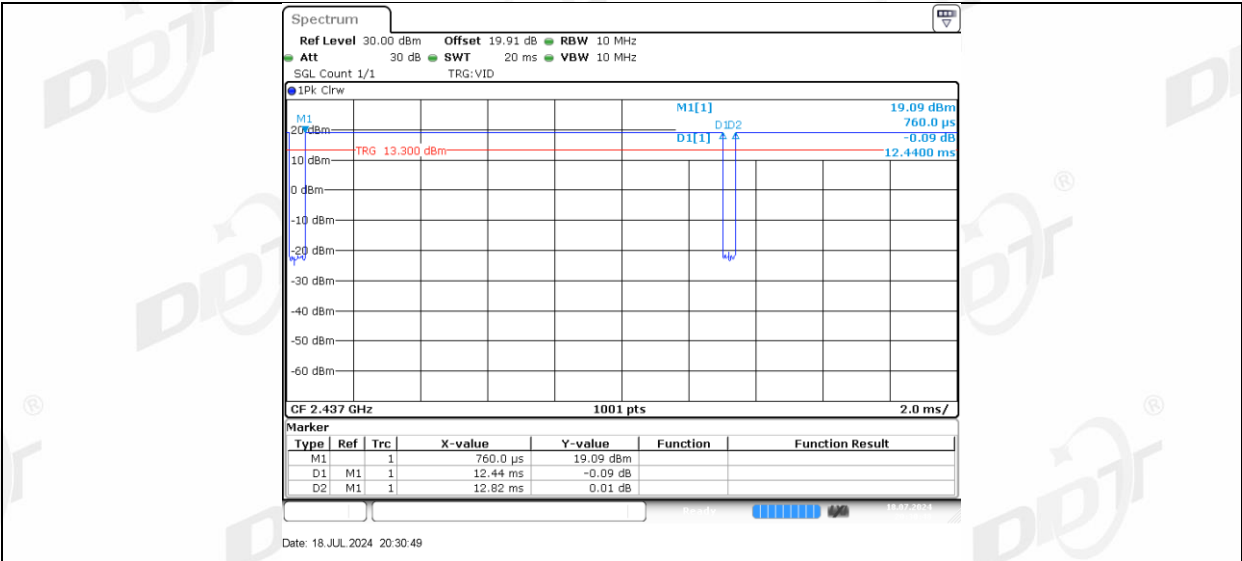
10.4. Test result

Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	26.1℃,38.6%RH	Test Date:	2024.07.07-2024.07.19
Test Power Supply:	DC 12V	Sample Number:	S24062520-003

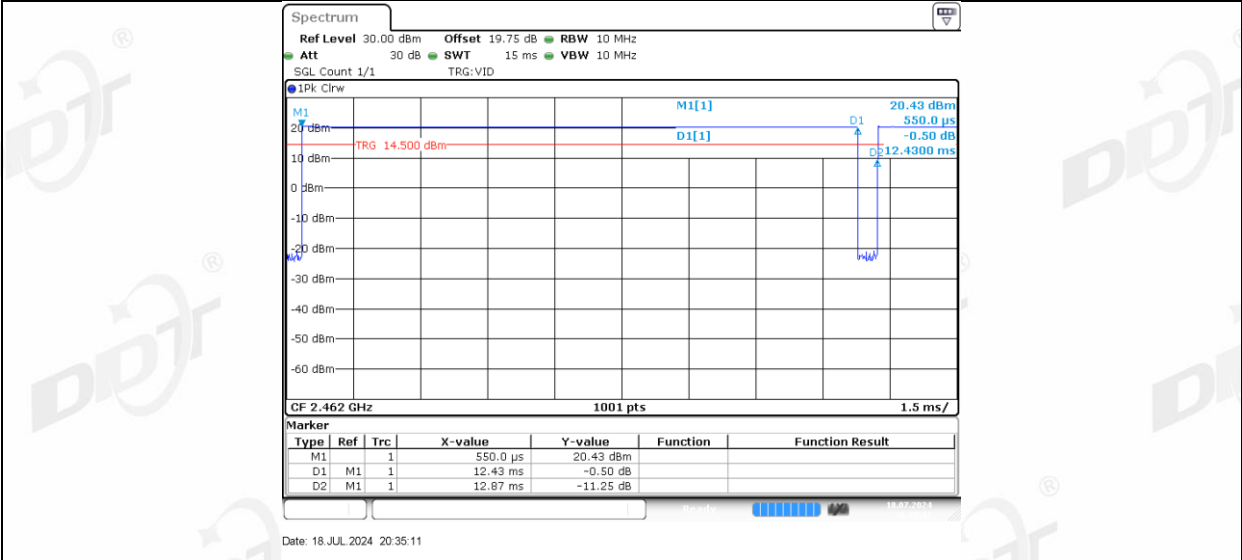
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	12.42	12.87	96.50
	Ant2	2412	12.44	12.82	97.04
	Ant1	2437	12.44	12.80	97.19
	Ant2	2437	12.44	12.82	97.04
	Ant1	2462	12.43	12.87	96.58
	Ant2	2462	12.45	12.87	96.74
11G	Ant1	2412	2.07	2.28	90.79
	Ant2	2412	2.07	2.30	90.00
	Ant1	2437	2.07	2.28	90.79
	Ant2	2437	2.06	2.21	93.21
	Ant1	2462	2.07	2.34	88.46
	Ant2	2462	2.07	2.26	91.59
11N20MIMO	Ant1	2412	0.98	1.21	80.99
	Ant2	2412	0.99	1.22	81.15
	Ant1	2437	0.99	1.22	81.15
	Ant2	2437	0.98	1.19	82.35
	Ant1	2462	0.98	1.17	83.76
	Ant2	2462	0.99	1.17	84.62
11N40MIMO	Ant1	2422	0.50	0.72	69.44
	Ant2	2422	0.50	0.71	70.42
	Ant1	2437	0.50	0.69	72.46
	Ant2	2437	0.50	0.71	70.42
	Ant1	2452	0.49	0.72	68.06
	Ant2	2452	0.50	0.73	68.49

10.5. Test graphs

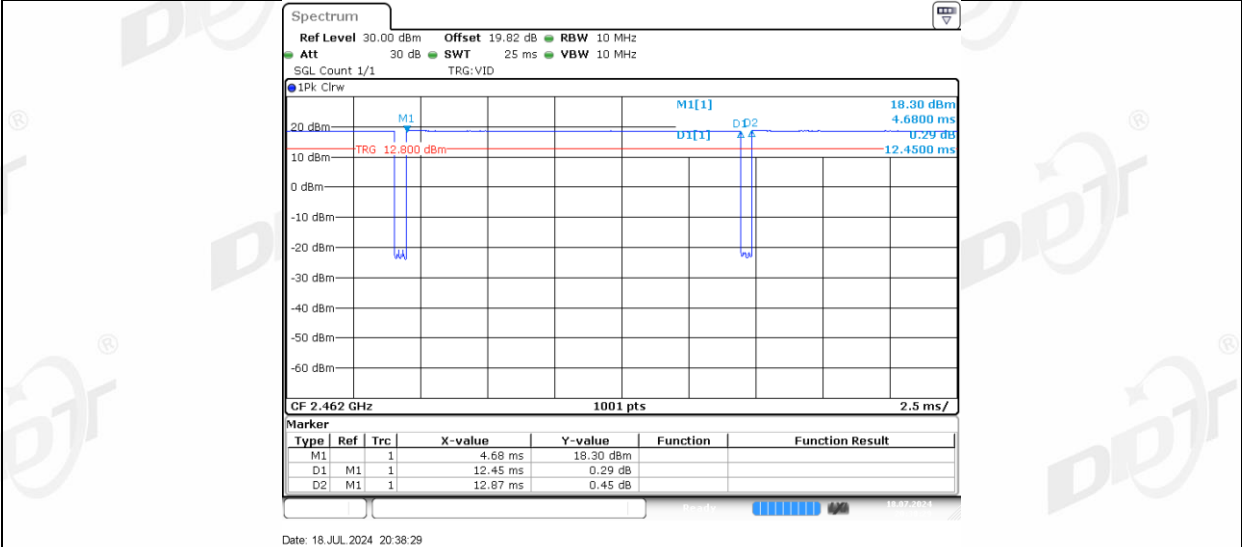




11B_Ant1_2462

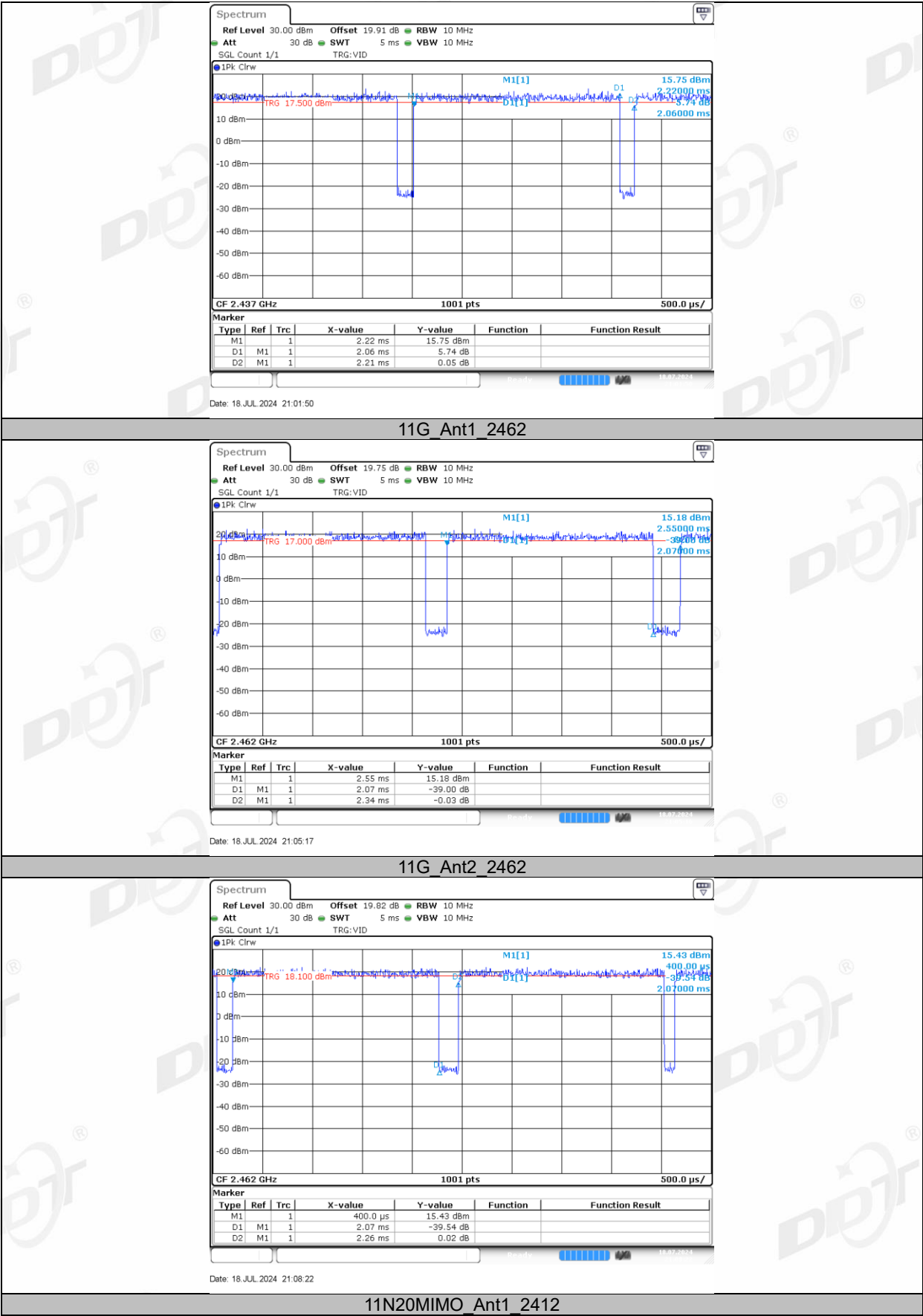


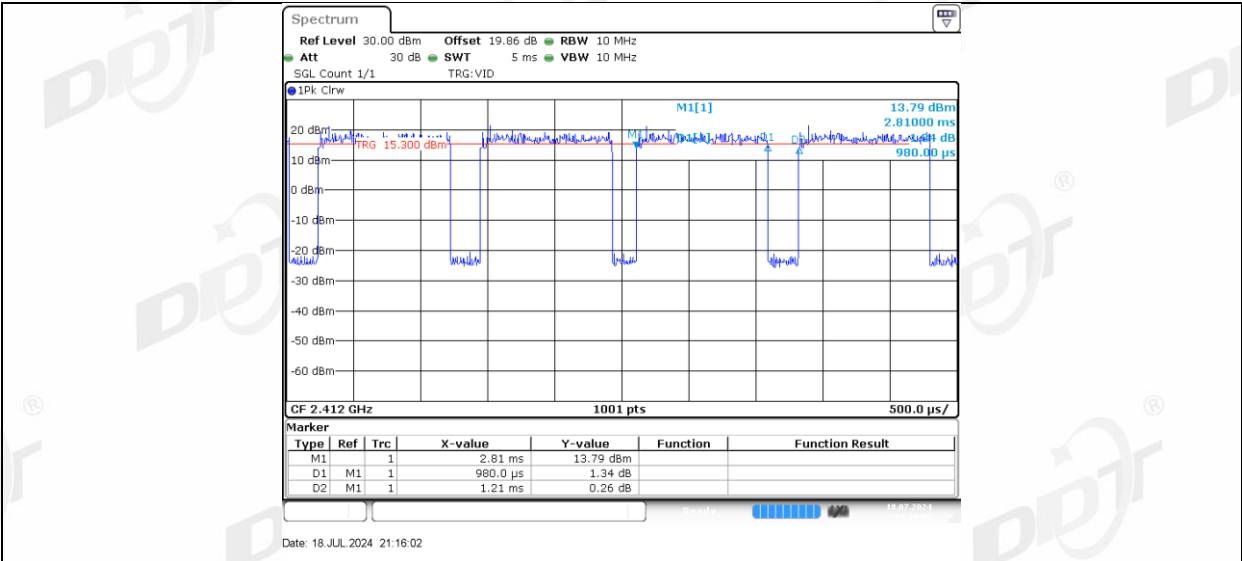
11B_Ant2_2462



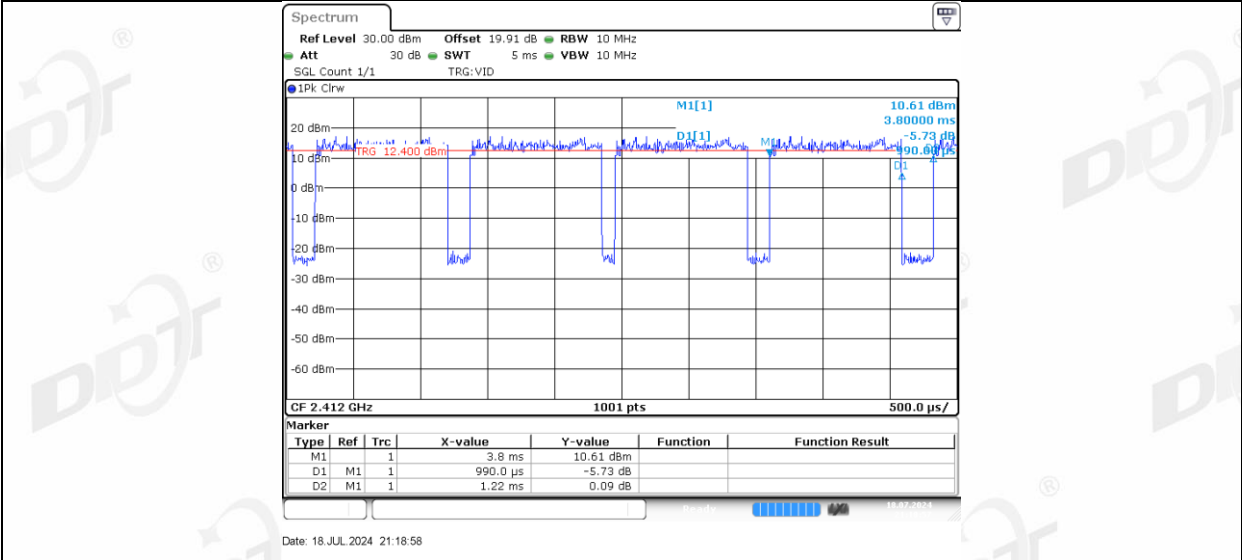
11G_Ant1_2412



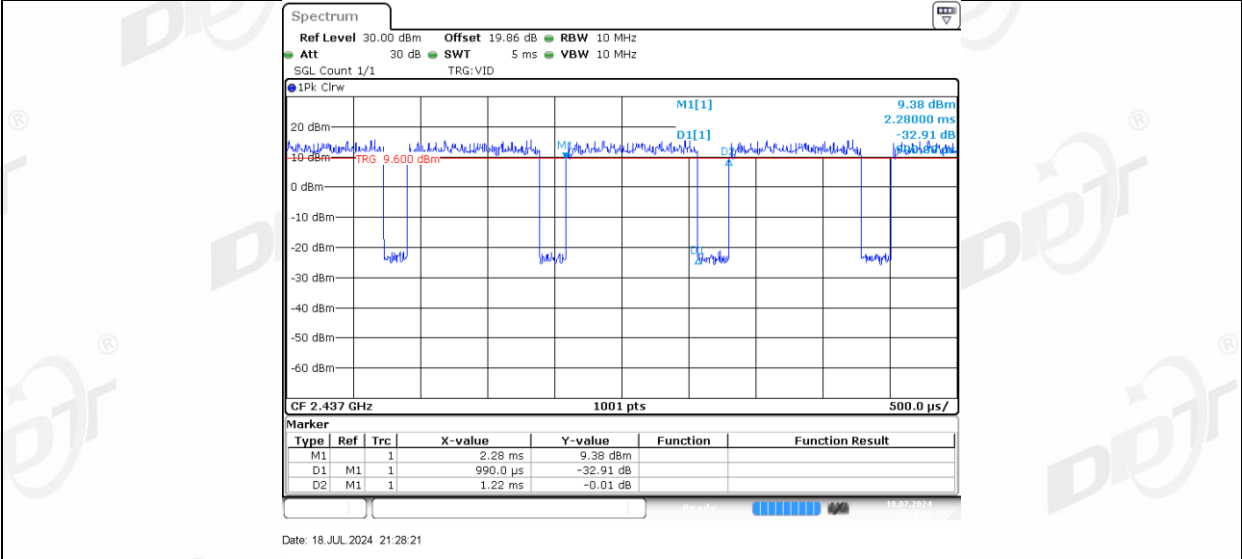




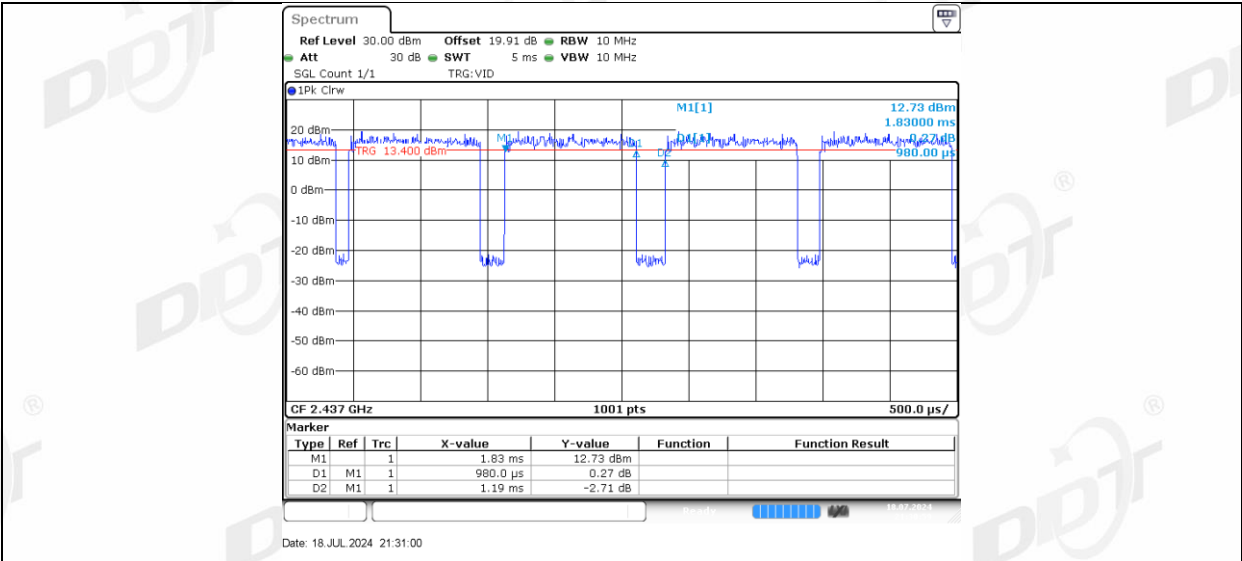
11N20MIMO_Ant2_2412



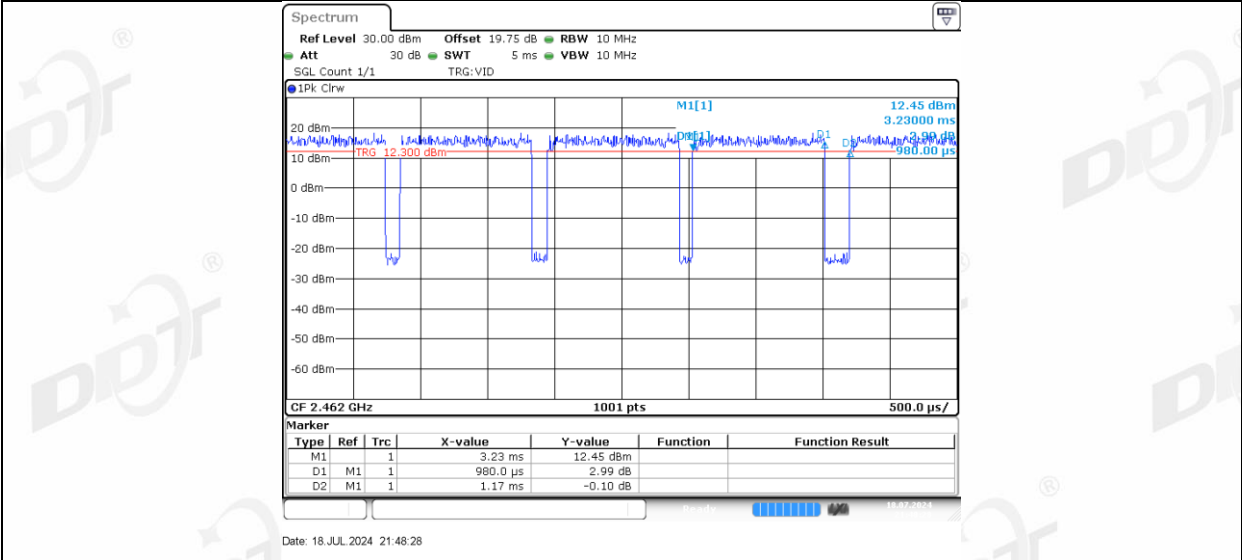
11N20MIMO_Ant1_2437



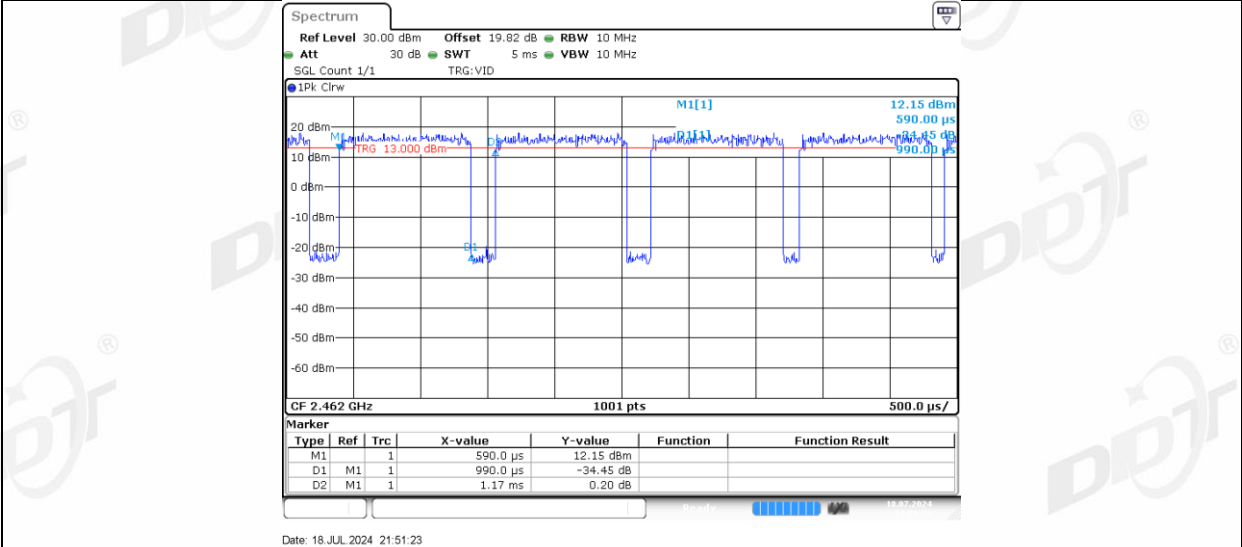
11N20MIMO_Ant2_2437



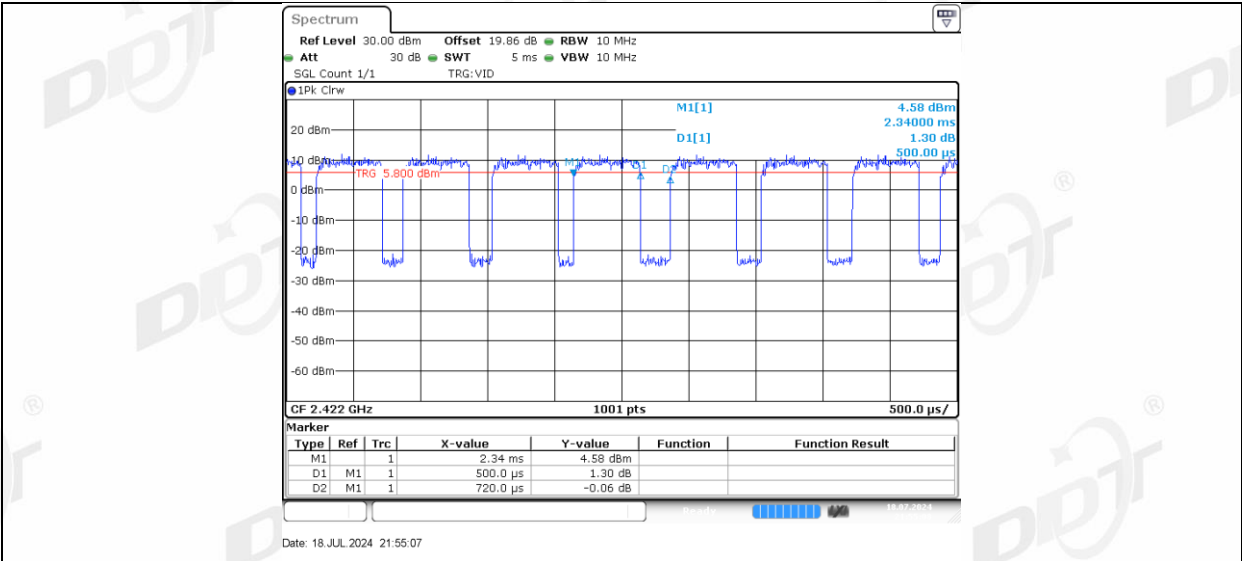
11N20MIMO_Ant1_2462



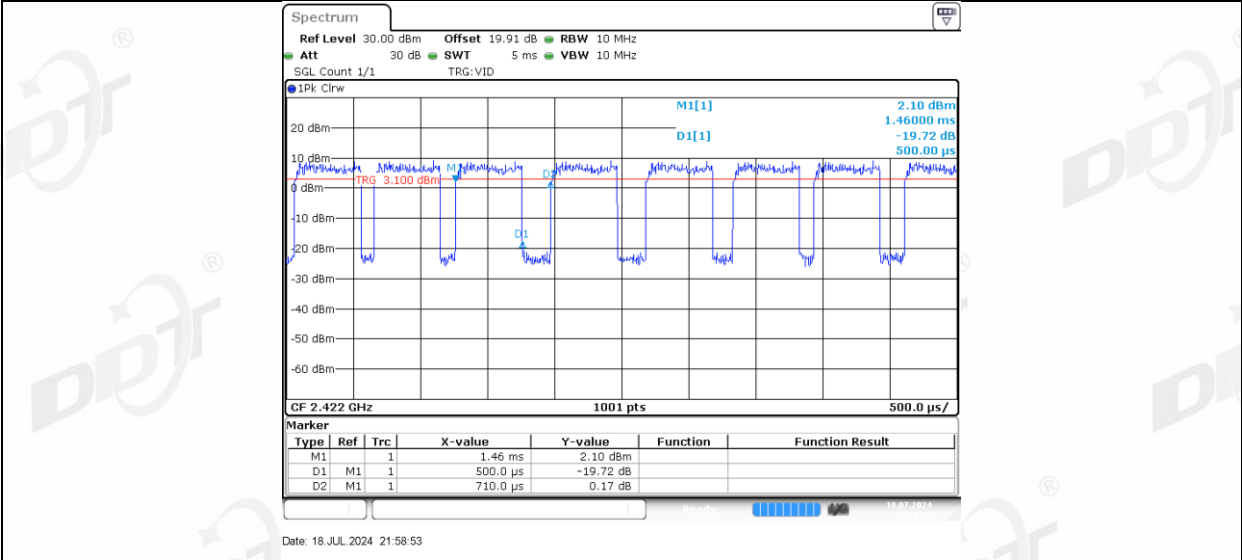
11N20MIMO_Ant2_2462



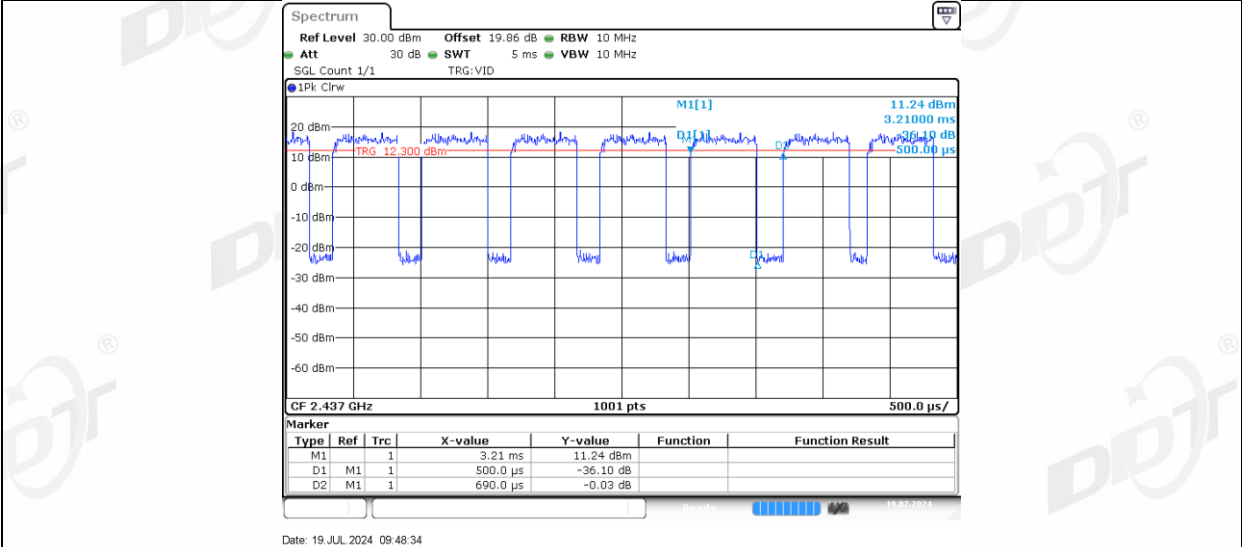
11N40MIMO_Ant1_2422



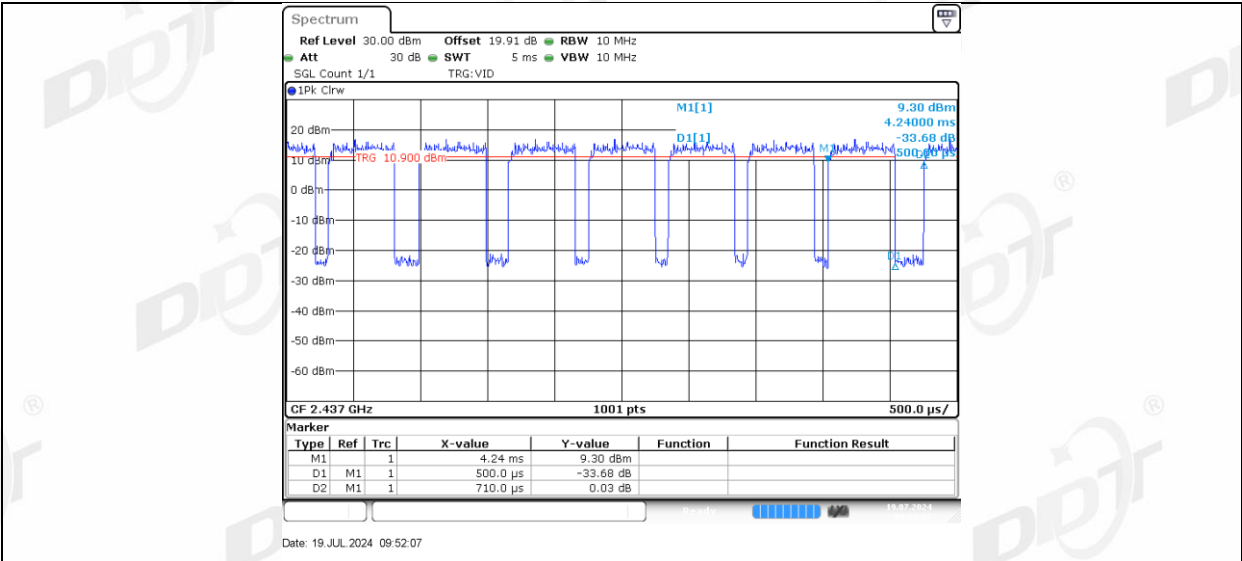
11N40MIMO_Ant2_2422



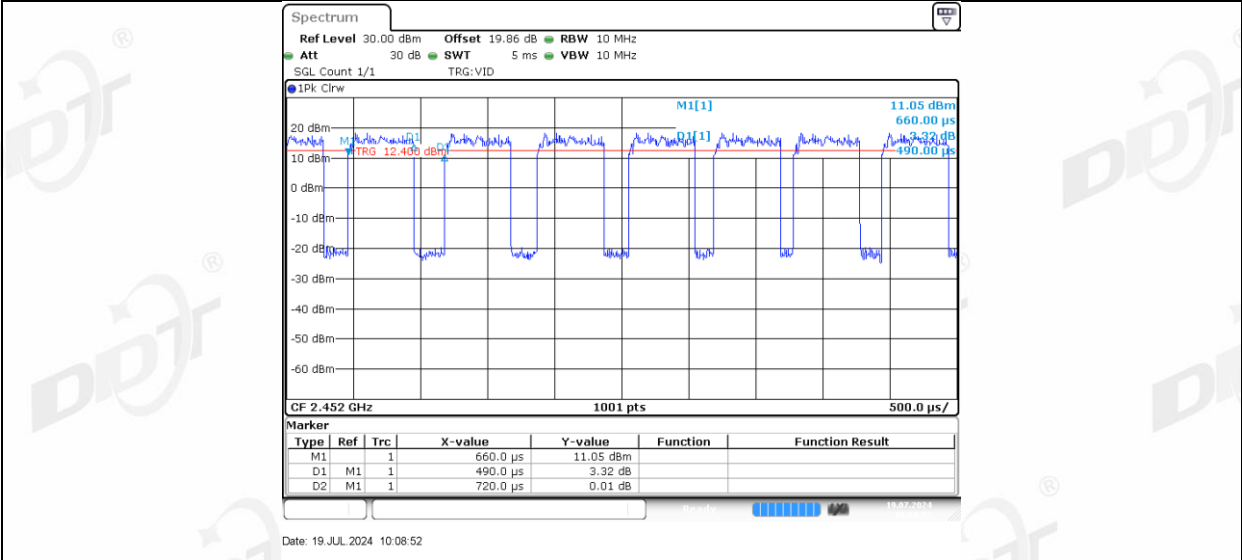
11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452

