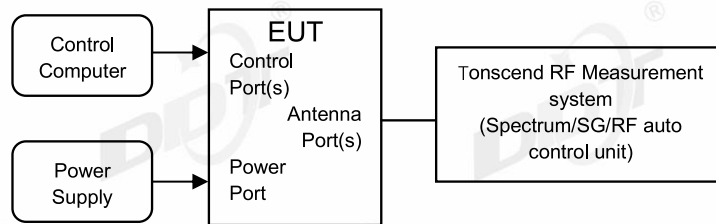


10. Duty Cycle

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

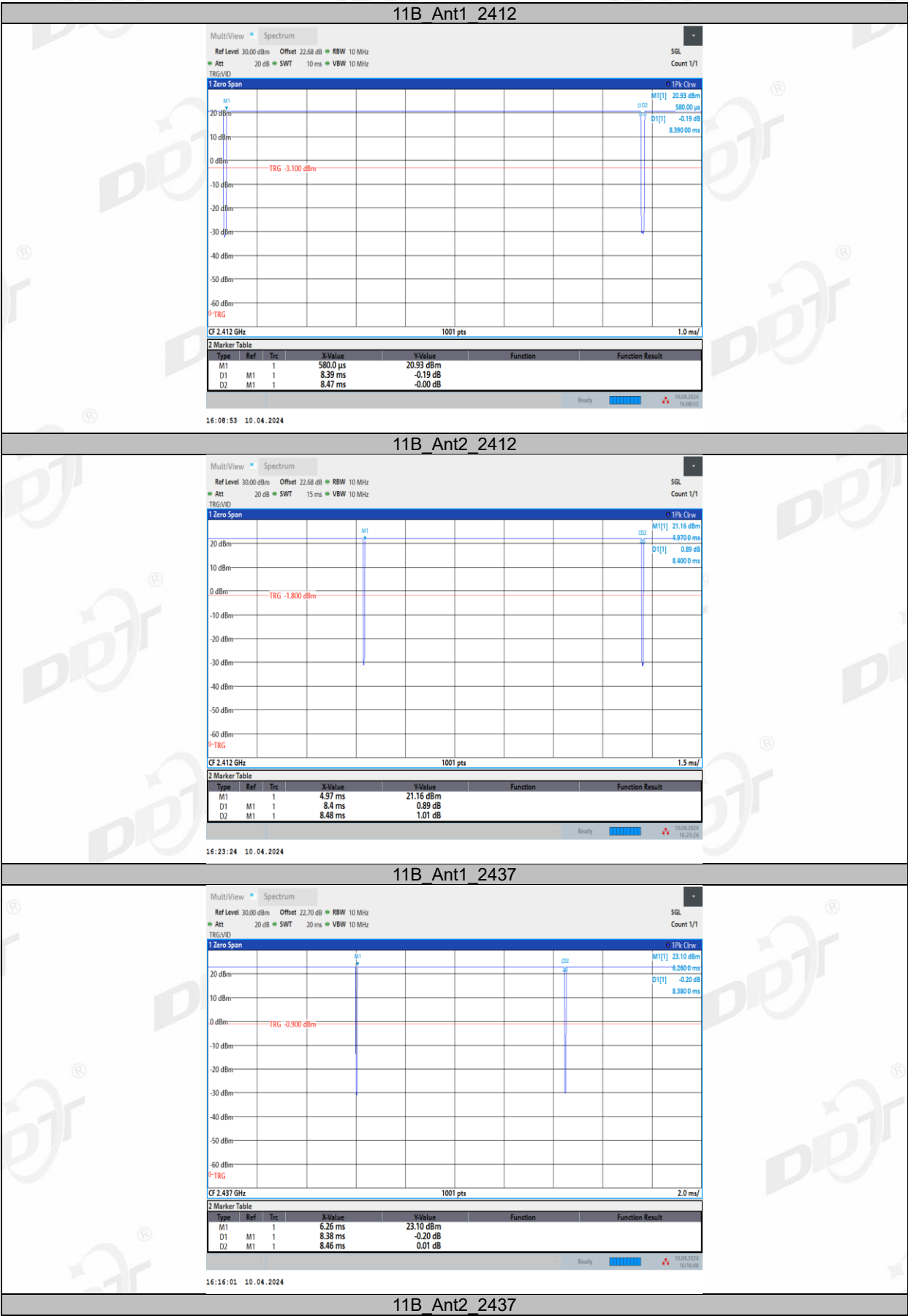
10.4. Test result

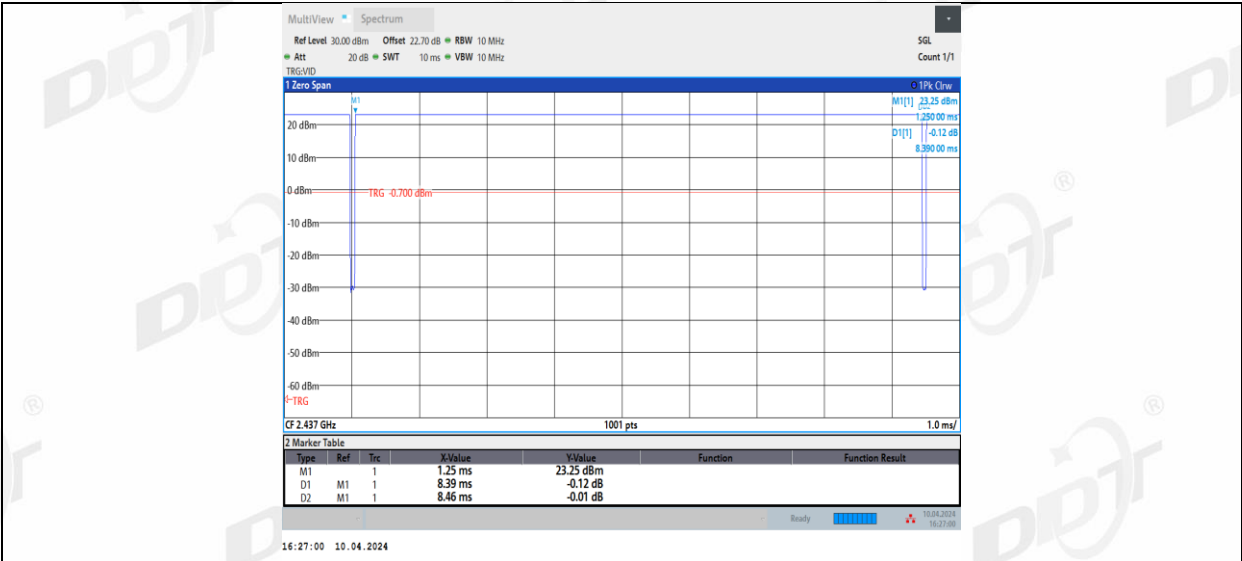
Test Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	25.5℃,48.2%RH	Test Date:	2024.04.10~2024.04.25
Test Power Supply:	AC 120V/60Hz	Sample Number:	S24032709-002

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11B	Ant1	2412	8.39	8.47	99.06
	Ant2	2412	8.40	8.48	99.06
	Ant1	2437	8.38	8.46	99.05
	Ant2	2437	8.39	8.46	99.17
	Ant1	2462	8.40	8.48	99.06
	Ant2	2462	8.39	8.46	99.17
11G-CDD	Ant1	2412	1.39	1.44	96.53
	Ant2	2412	1.40	1.45	96.55
	Ant1	2437	1.40	1.46	95.89
	Ant2	2437	1.39	1.45	95.86
	Ant1	2462	1.39	1.46	95.21
	Ant2	2462	1.39	1.44	96.53
11N20MIMO	Ant1	2412	0.68	0.74	91.89
	Ant2	2412	0.68	0.74	91.89
	Ant1	2437	0.68	0.74	91.89
	Ant2	2437	0.67	0.73	91.78
	Ant1	2462	0.68	0.74	91.89
	Ant2	2462	0.68	0.74	91.89
11N40MIMO	Ant1	2422	0.35	0.41	85.37
	Ant2	2422	0.35	0.41	85.37
	Ant1	2437	0.35	0.41	85.37
	Ant2	2437	0.35	0.41	85.37
	Ant1	2452	0.35	0.41	85.37
	Ant2	2452	0.34	0.40	85.00
11AX20MIMO	Ant1	2412	0.31	0.38	81.58
	Ant2	2412	0.31	0.38	81.58
	Ant1	2437	0.31	0.37	83.78
	Ant2	2437	0.31	0.38	81.58
	Ant1	2462	0.31	0.37	83.78
	Ant2	2462	0.31	0.38	81.58
11AX40MIMO	Ant1	2422	0.31	0.37	83.78
	Ant2	2422	0.31	0.38	81.58
	Ant1	2437	0.31	0.37	83.78
	Ant2	2437	0.31	0.37	83.78
	Ant1	2452	0.31	0.37	83.78
	Ant2	2452	0.31	0.37	83.78
11BE20MIMO	Ant1	2412	0.32	0.38	84.21
	Ant2	2412	0.32	0.38	84.21
	Ant1	2437	0.31	0.38	81.58
	Ant2	2437	0.32	0.38	84.21
	Ant1	2462	0.32	0.38	84.21
	Ant2	2462	0.31	0.38	81.58
11BE40MIMO	Ant1	2422	0.32	0.38	84.21
	Ant2	2422	0.32	0.38	84.21
	Ant1	2437	0.32	0.38	84.21
	Ant2	2437	0.32	0.38	84.21
	Ant1	2452	0.32	0.38	84.21
	Ant2	2452	0.32	0.38	84.21

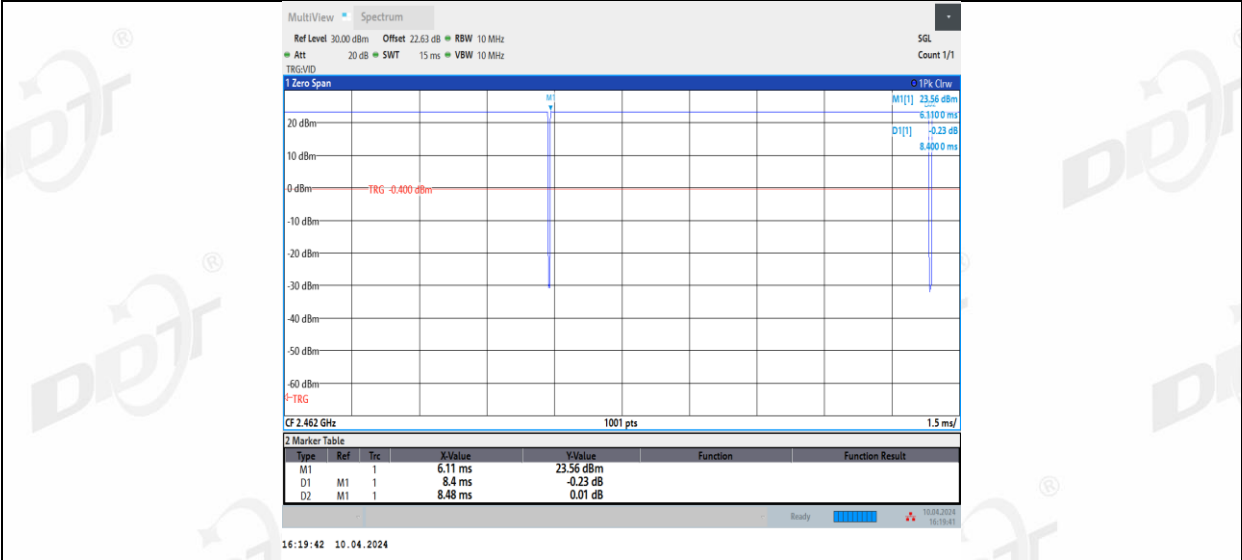
TestMode	Antenna	Channel	Mru Type	Mru Index	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11BE20MIMO	Ant1	2412	52+26_OFDMA	1	0.86	0.92	93.48
				2	0.87	0.93	93.55
				3	0.88	0.94	93.62
			106+26_OFDMA	1	0.86	0.92	93.48
				2	0.86	0.92	93.48
				3	0.86	0.93	92.47
	Ant2	2412	52+26_OFDMA	1	0.86	0.93	93.55
				2	0.87	0.93	93.55
				3	0.88	0.94	93.62
			106+26_OFDMA	1	0.86	0.92	93.48
				2	0.86	0.92	93.48
				3	0.86	0.93	92.47
	Ant1	2437	52+26_OFDMA	1	0.87	0.93	93.55
				2	0.87	0.93	93.55
				3	0.87	0.93	93.55
			106+26_OFDMA	1	0.85	0.92	92.39
				2	0.86	0.92	93.48
				3	0.87	0.93	93.55
	Ant2	2437	52+26_OFDMA	1	0.87	0.93	93.55
				2	0.86	0.92	93.48
				3	0.87	0.94	92.55
			106+26_OFDMA	1	0.85	0.91	93.41
				2	0.85	0.91	93.41
				3	0.86	0.93	92.47
	Ant1	2462	52+26_OFDMA	1	0.86	0.93	92.47
				2	0.87	0.93	93.55
				3	0.88	0.94	93.62
			106+26_OFDMA	1	0.85	0.91	93.41
				2	0.86	0.92	93.48
				3	0.87	0.93	93.55
	Ant2	2462	52+26_OFDMA	1	0.87	0.93	93.55
				2	0.86	0.92	93.48
				3	0.87	0.93	93.55
			106+26_OFDMA	1	0.85	0.91	93.41
				2	0.86	0.92	93.48
				3	0.86	0.92	93.48
11BE40MIMO	Ant1	2422	106+26_OFDMA	3	0.86	0.92	93.48
				4	0.86	0.92	93.48
	Ant2	2422	106+26_OFDMA	3	0.86	0.92	93.48
				4	0.85	0.91	93.41
	Ant1	2437	106+26_OFDMA	3	0.85	0.92	92.39
				4	0.86	0.92	93.48
	Ant2	2437	106+26_OFDMA	3	0.86	0.92	93.48
				4	0.85	0.91	93.41
	Ant1	2452	106+26_OFDMA	3	0.85	0.91	93.41
				4	0.85	0.91	93.41
	Ant2	2452	106+26_OFDMA	3	0.85	0.91	93.41
				4	0.85	0.91	93.41

10.5. Test graphs

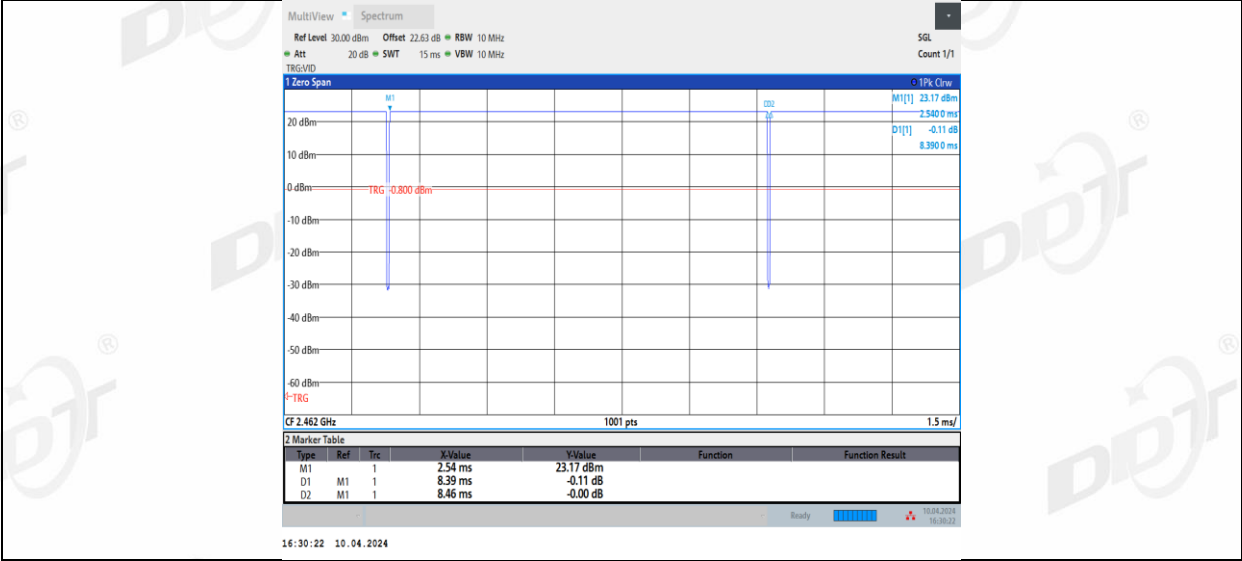




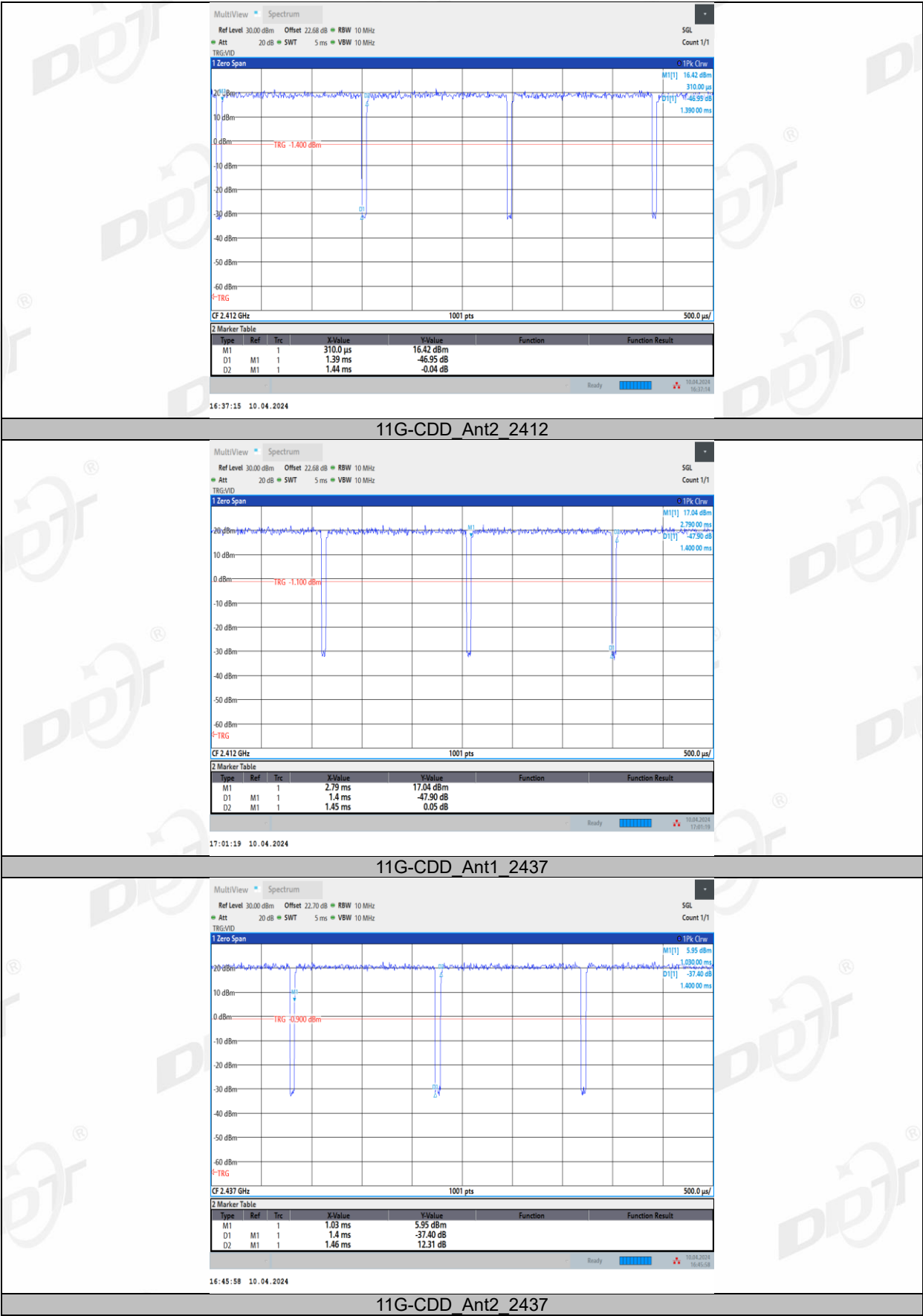
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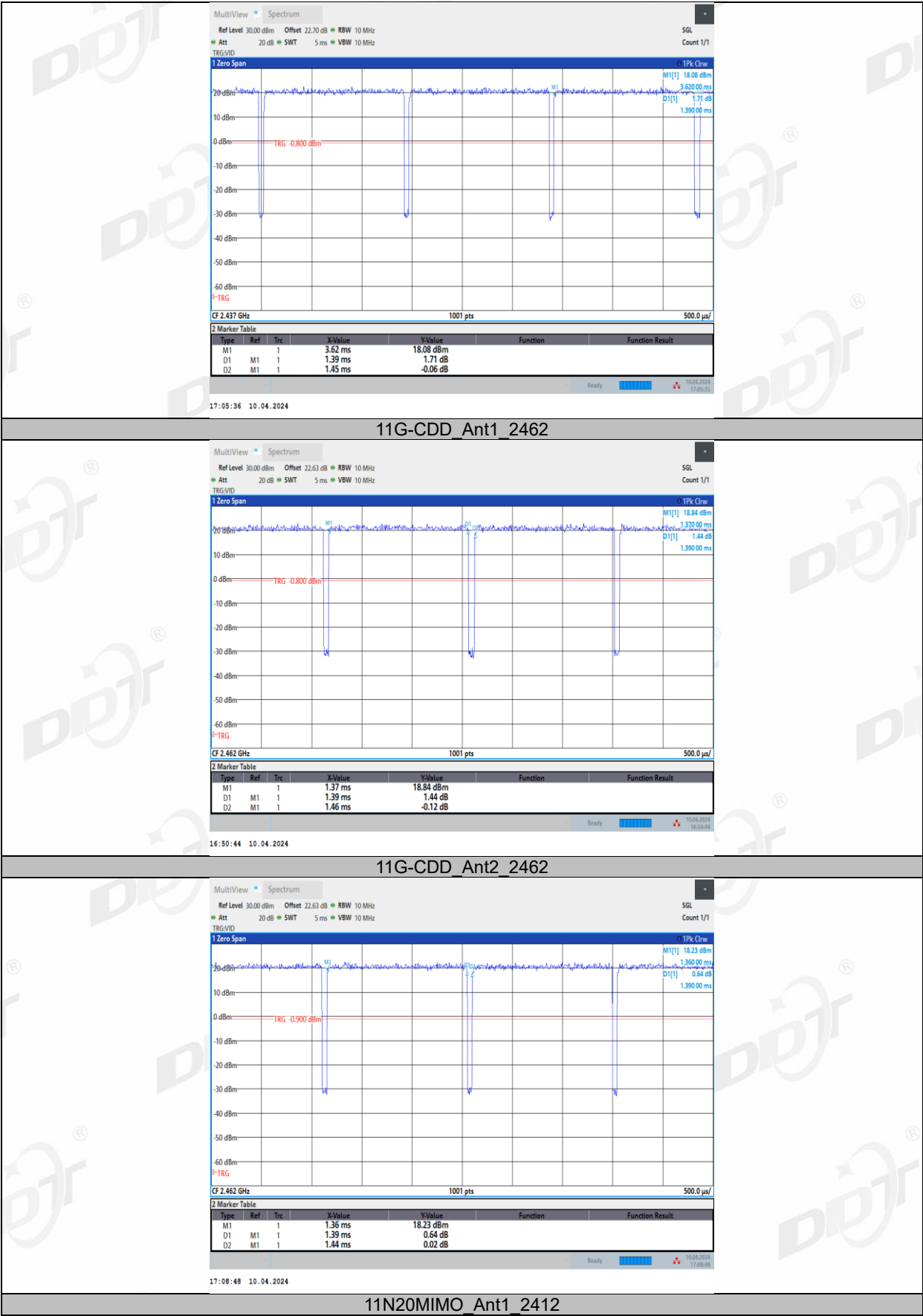


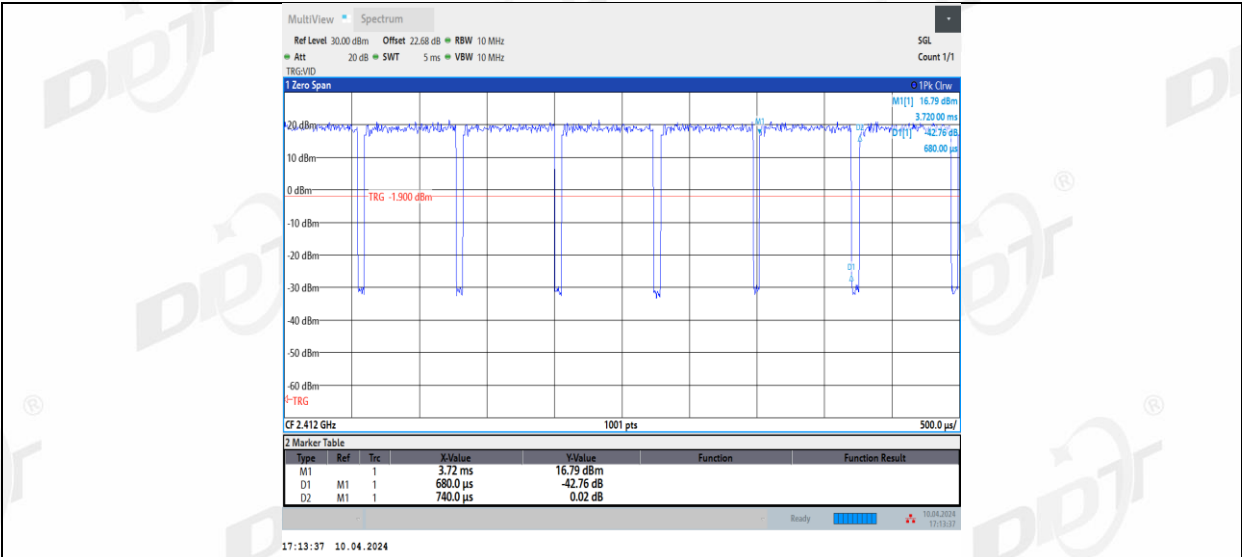
11B_Ant2_2462



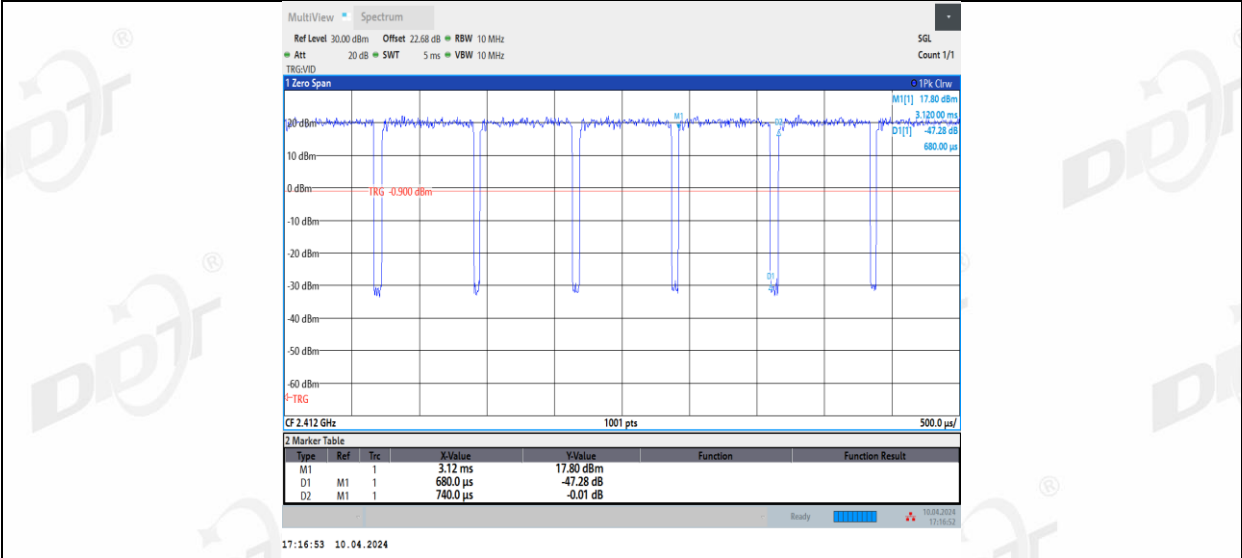
11G-CDD_Ant1_2412



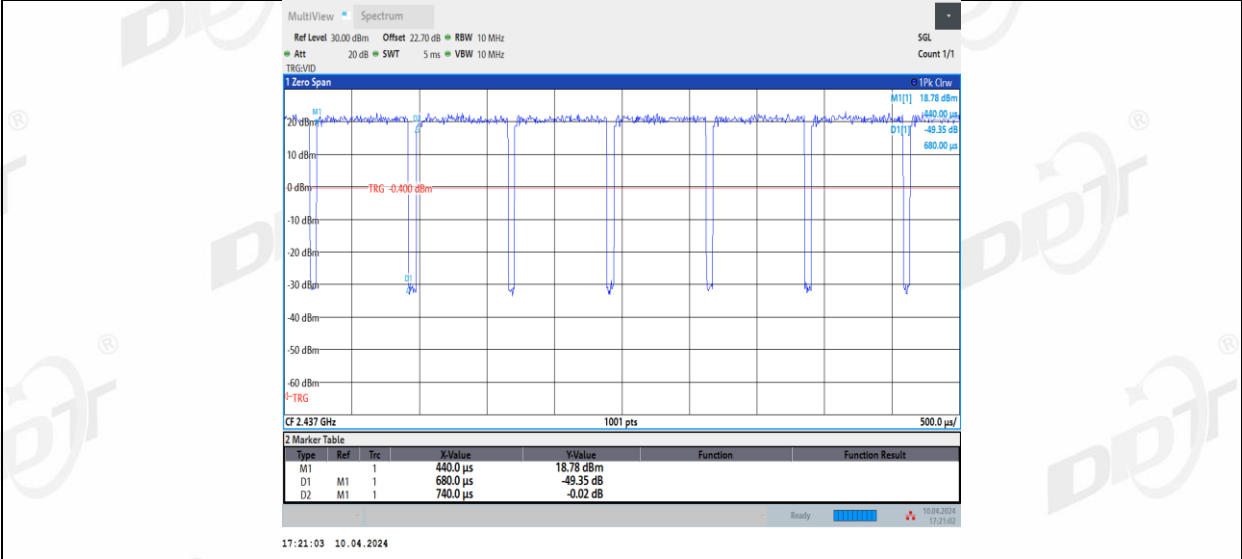




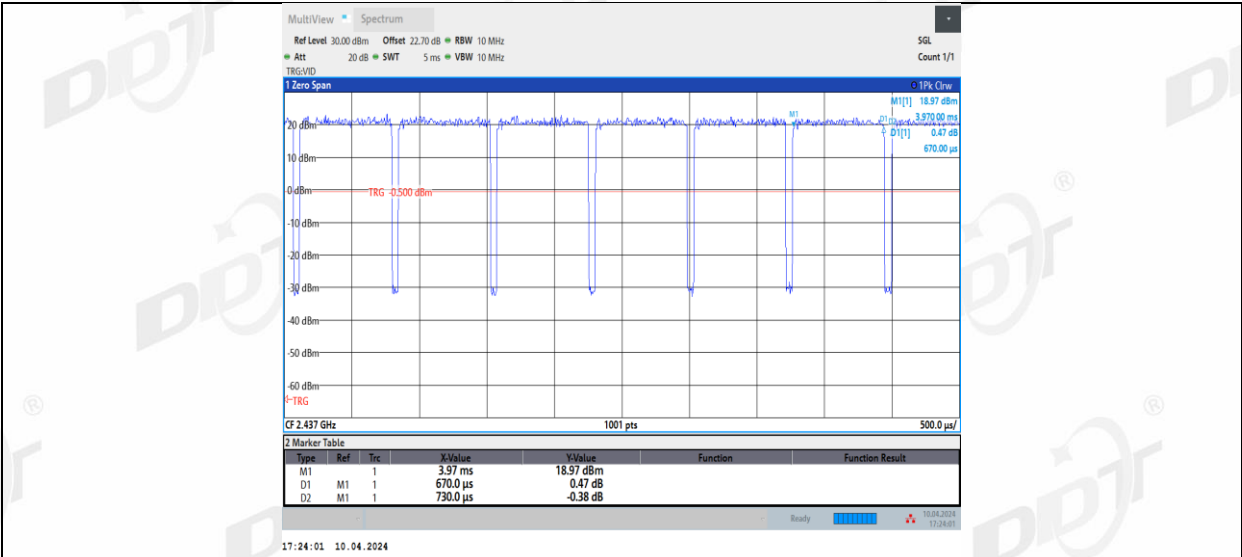
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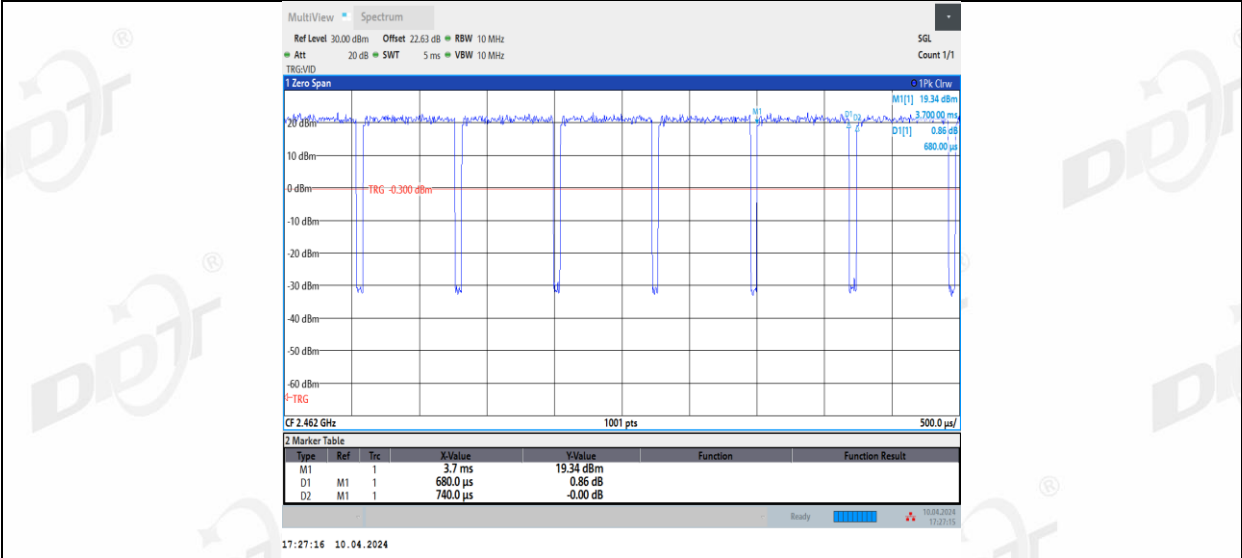
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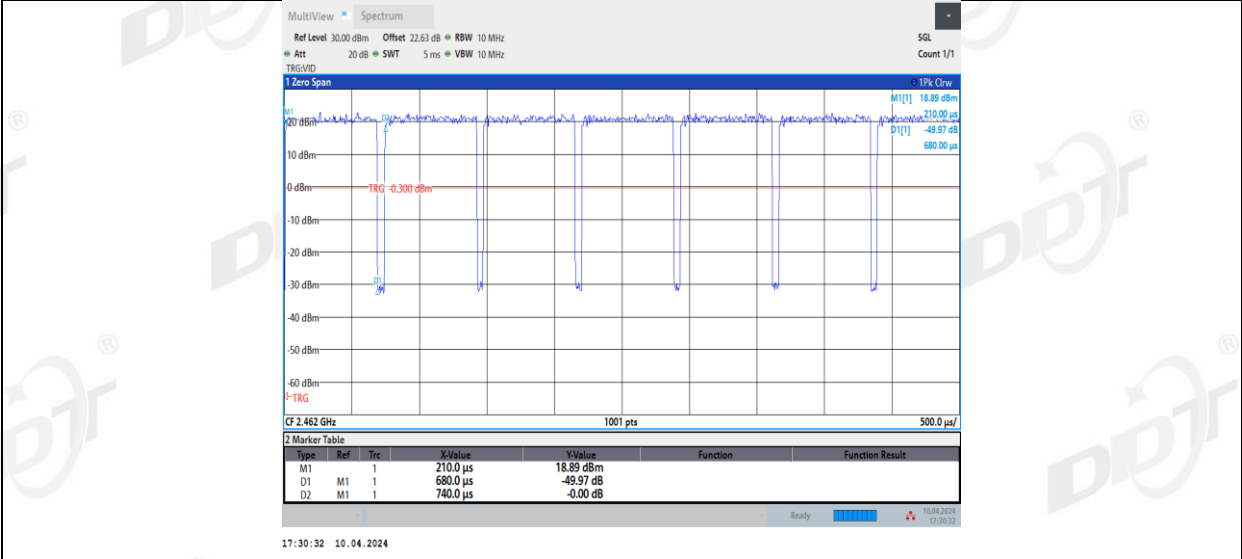
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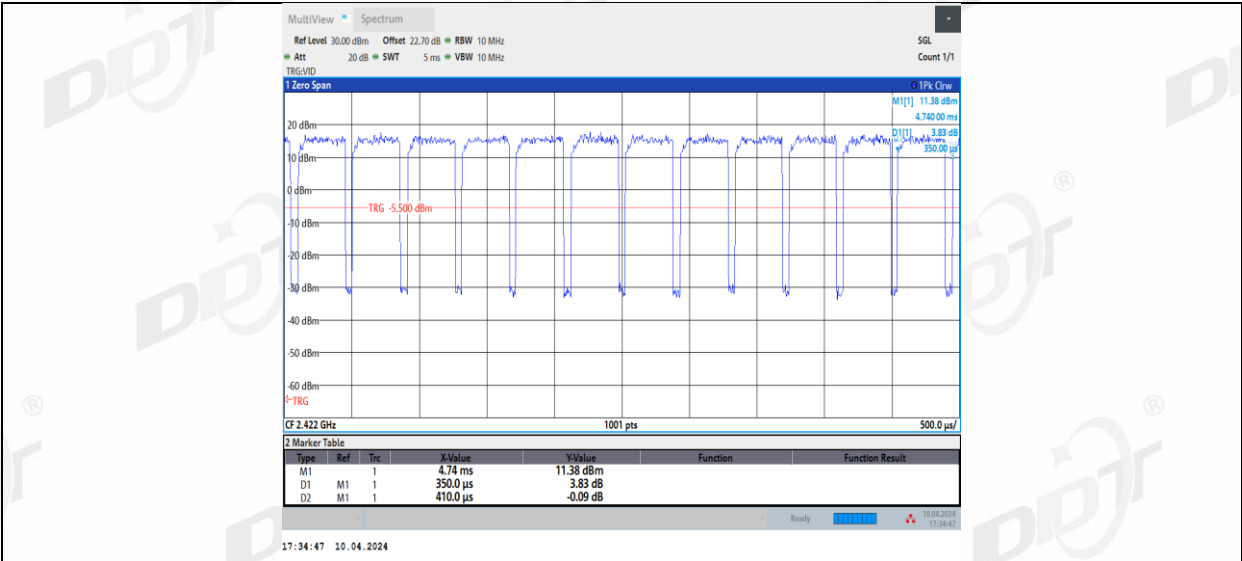
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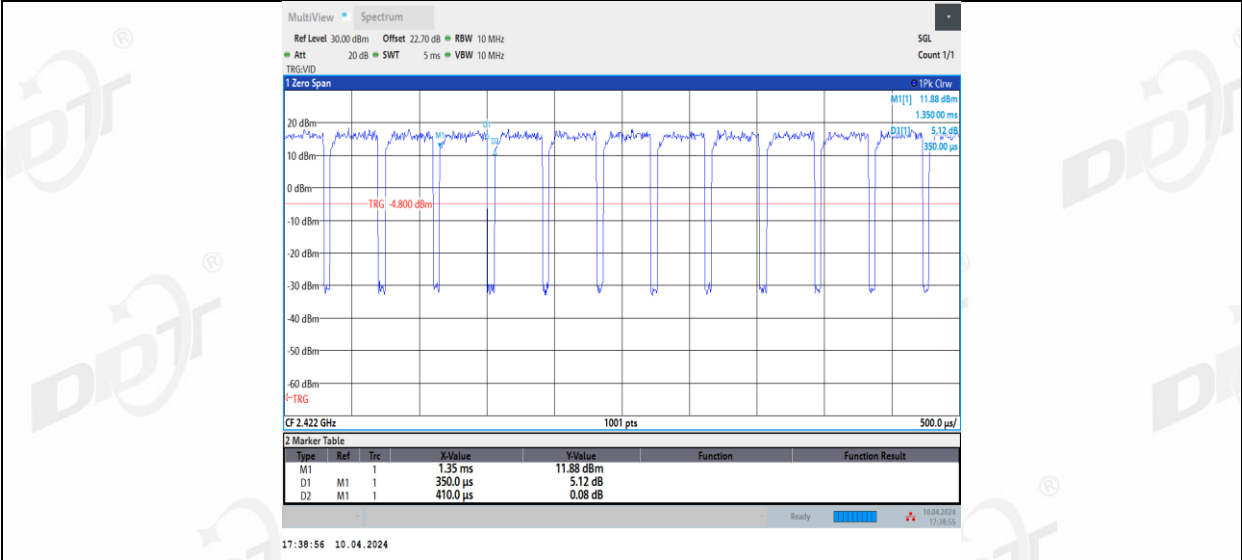
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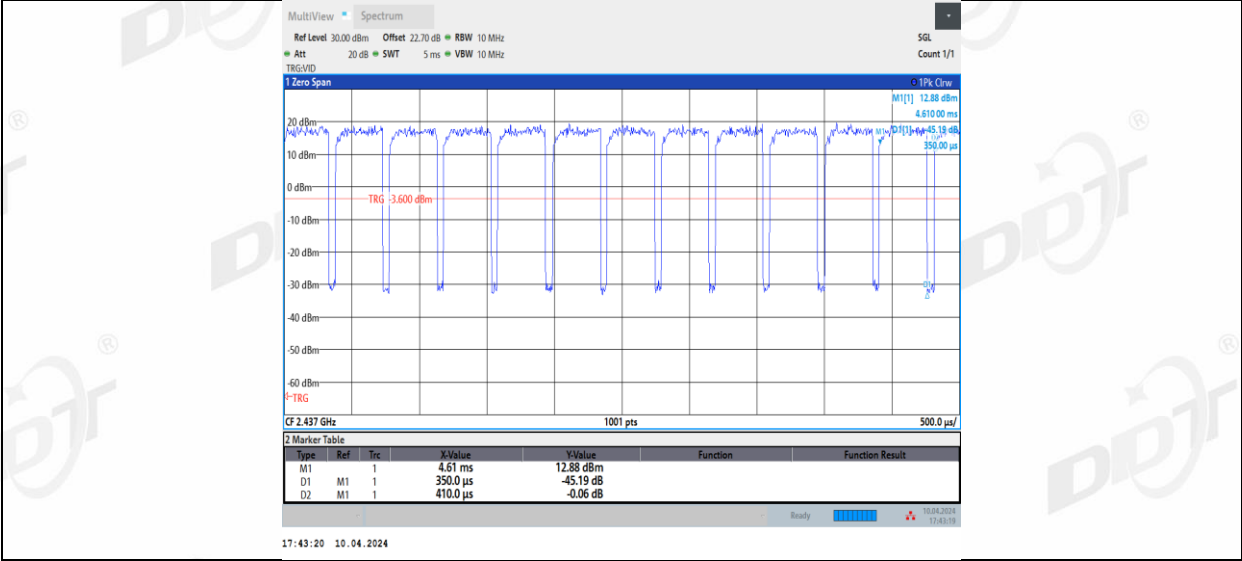
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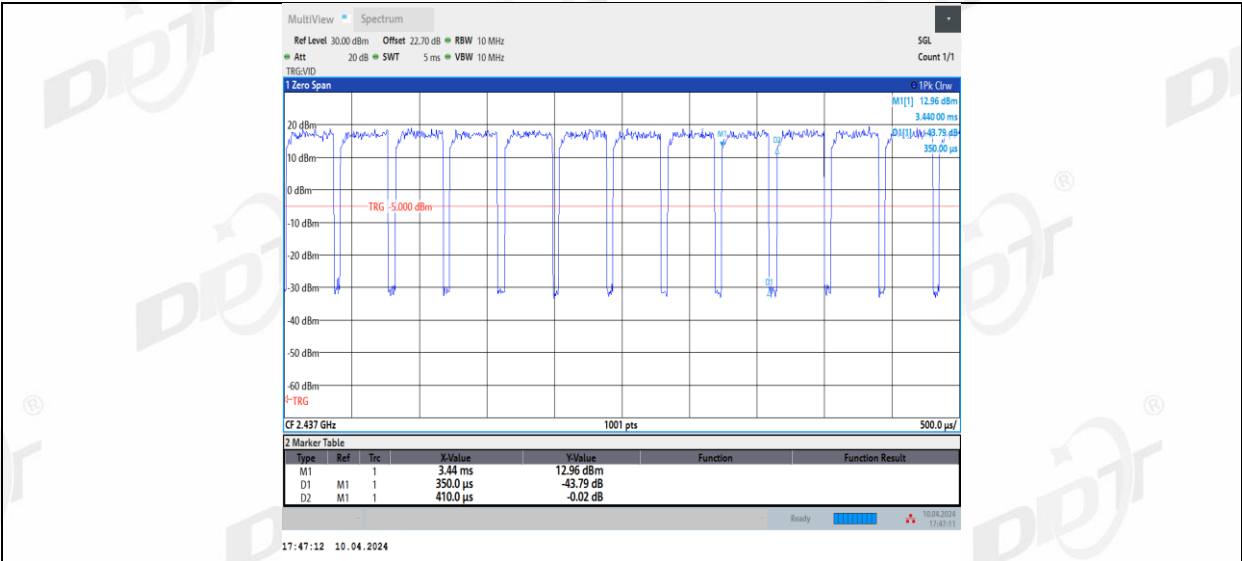
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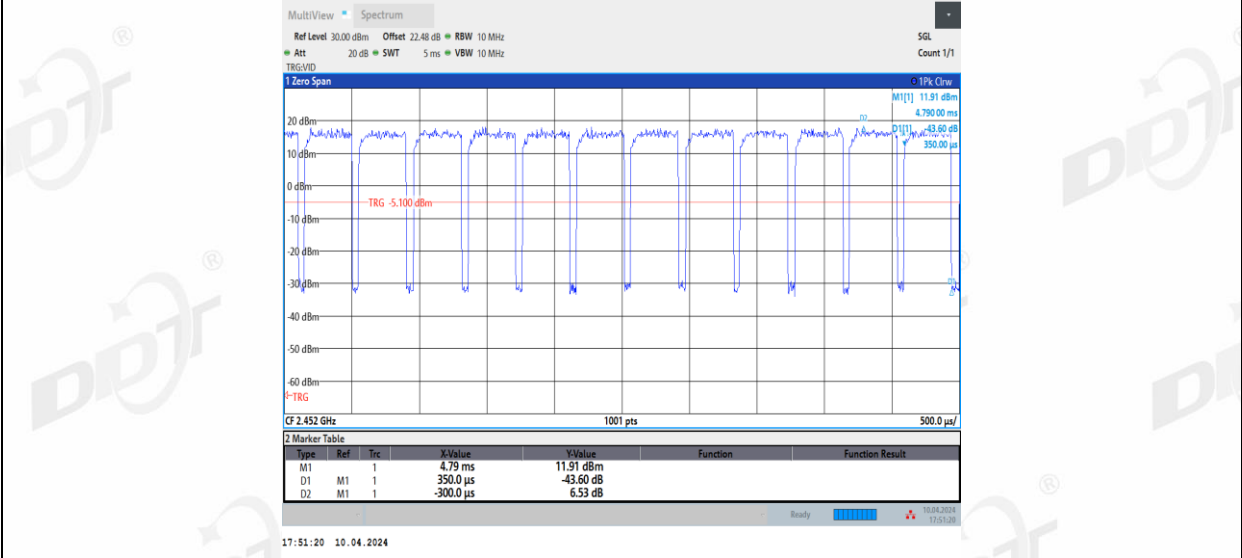
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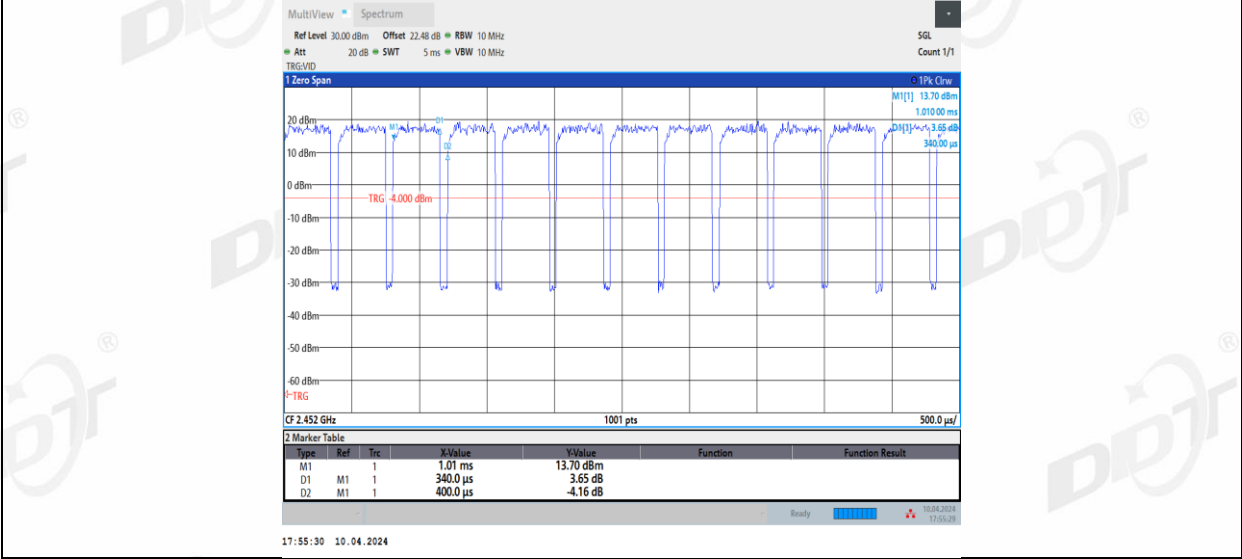
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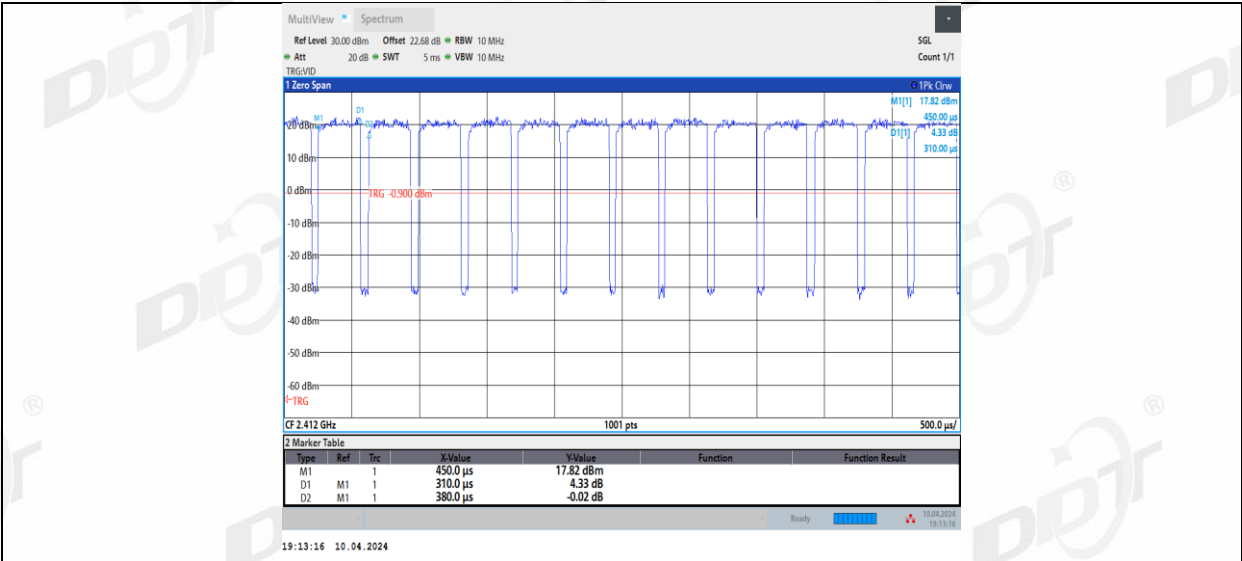
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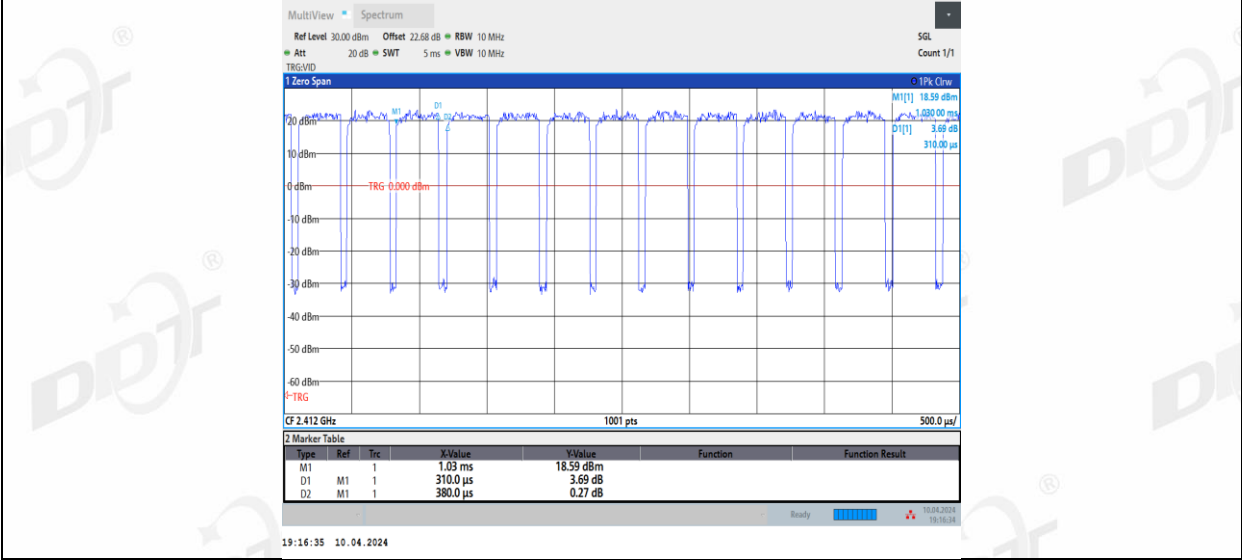
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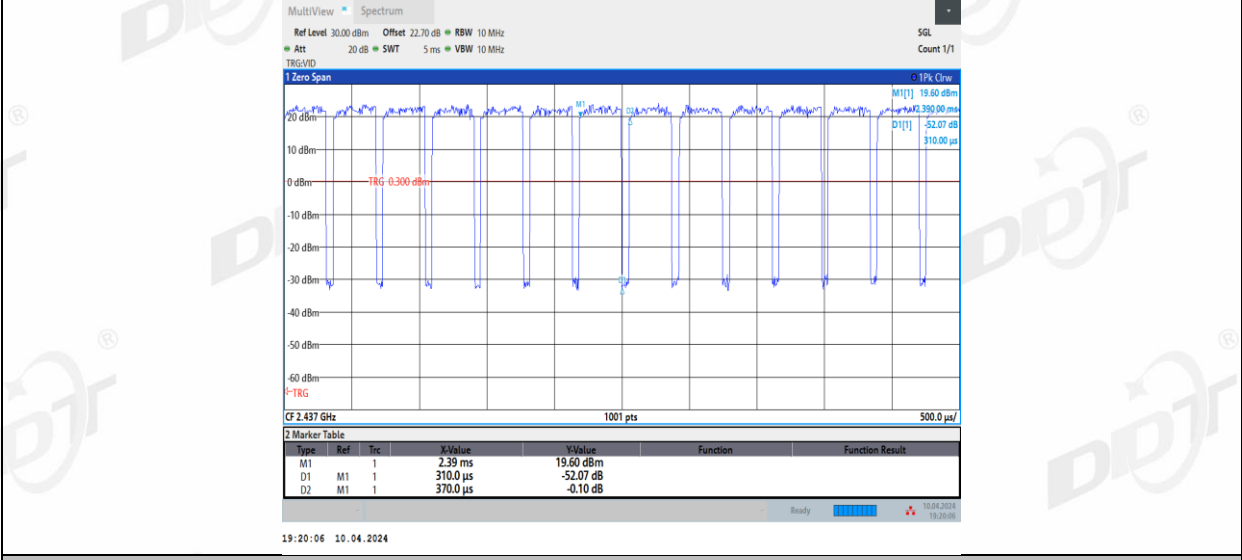
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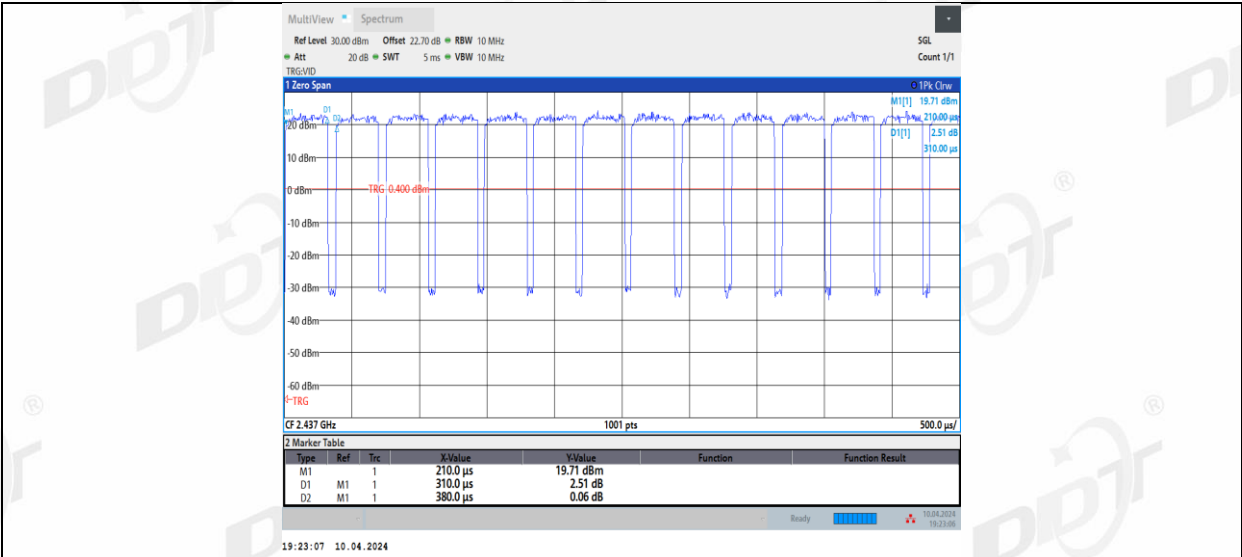
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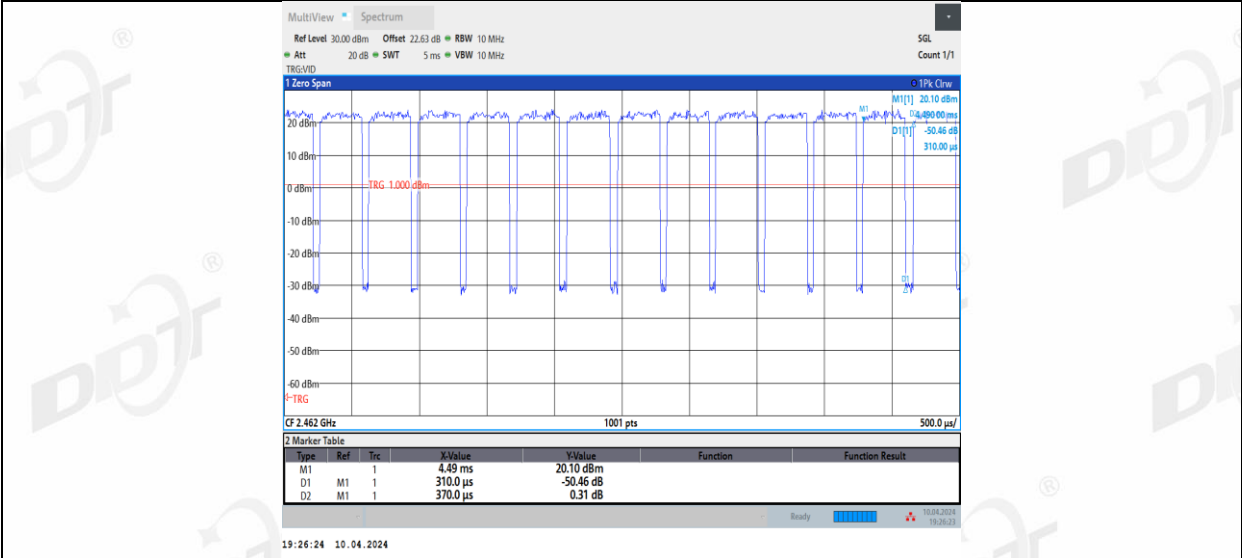
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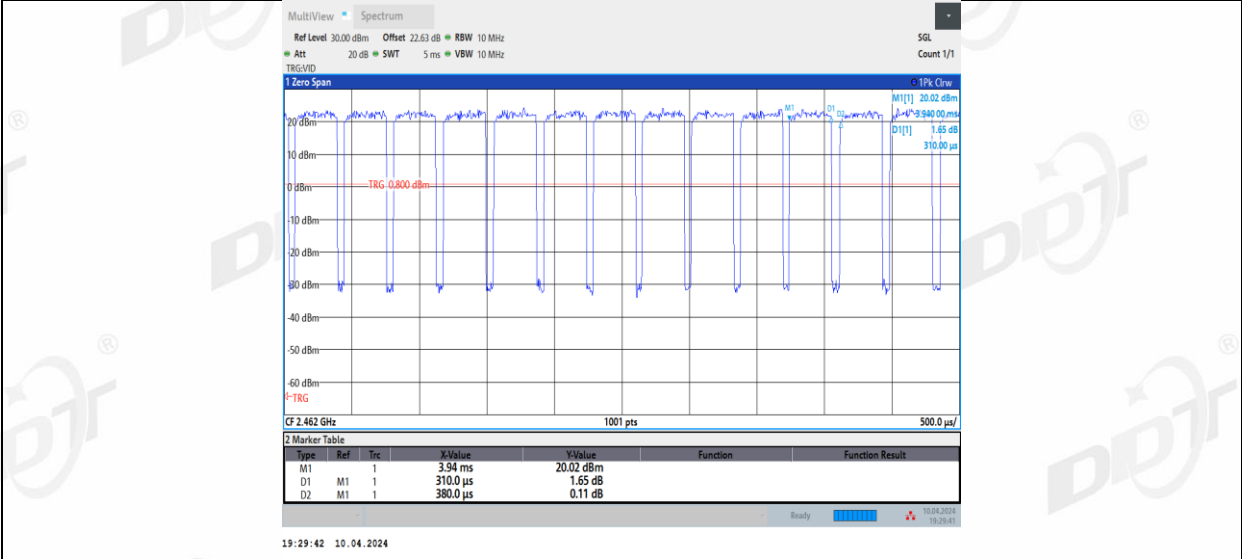
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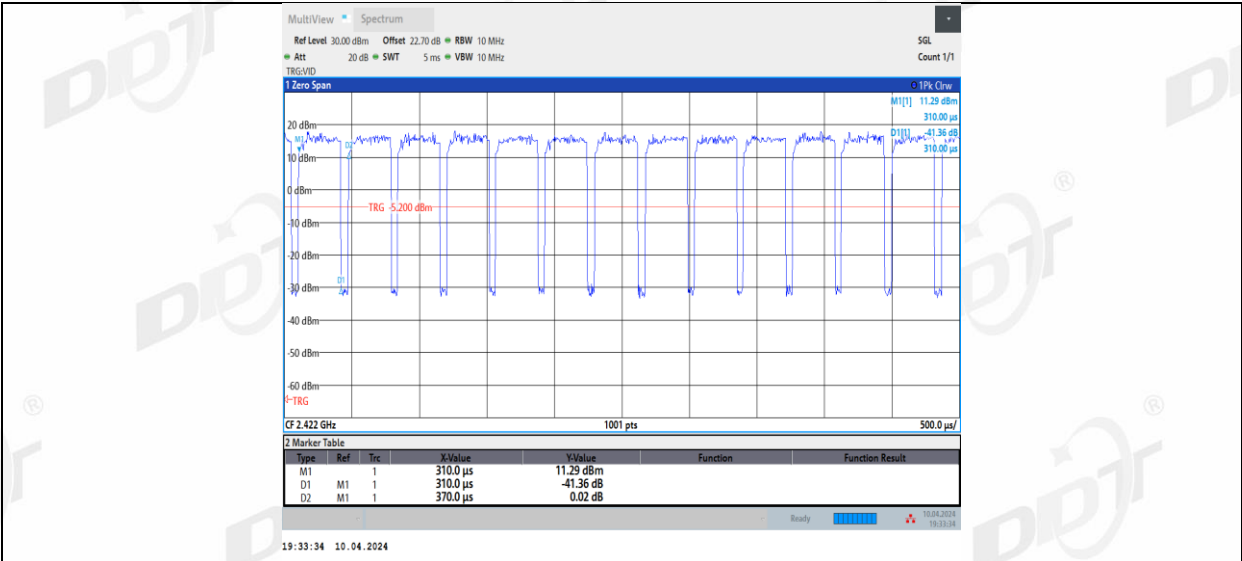
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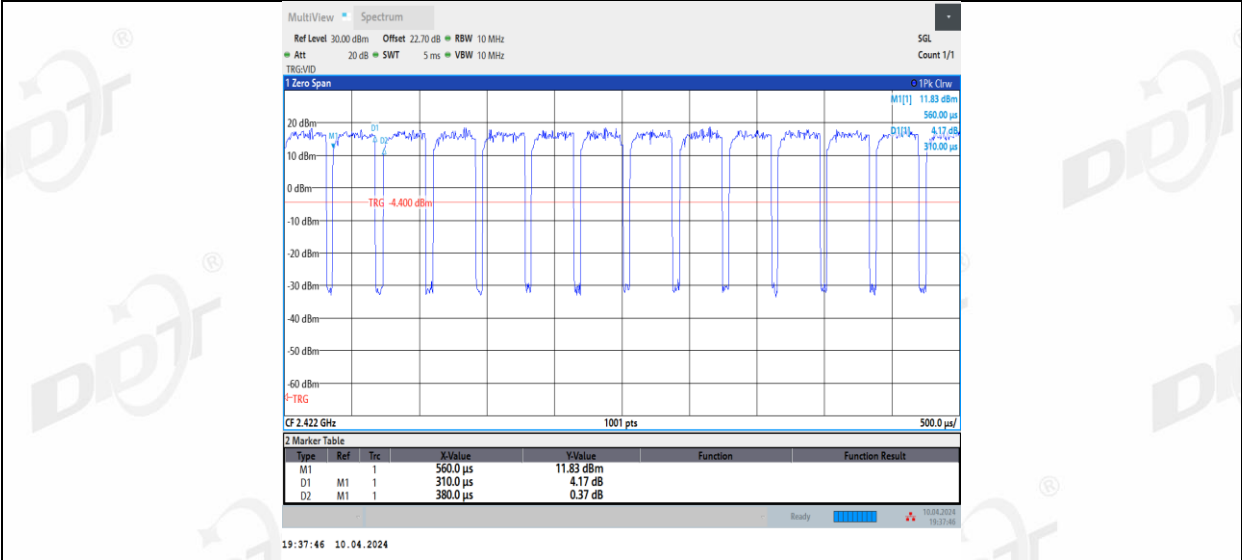
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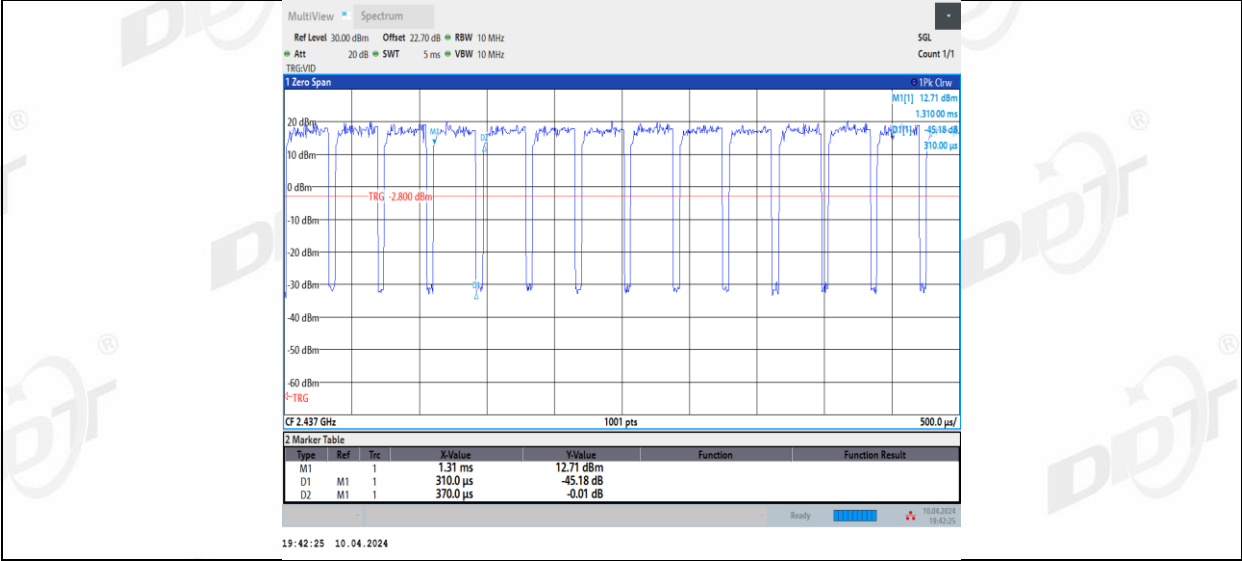
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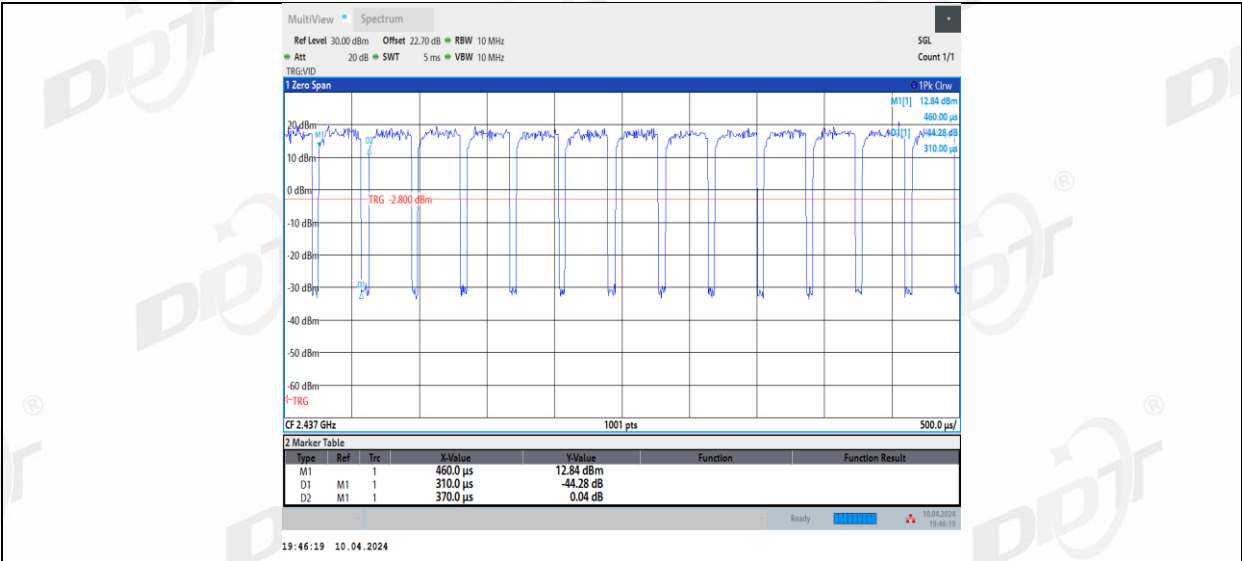
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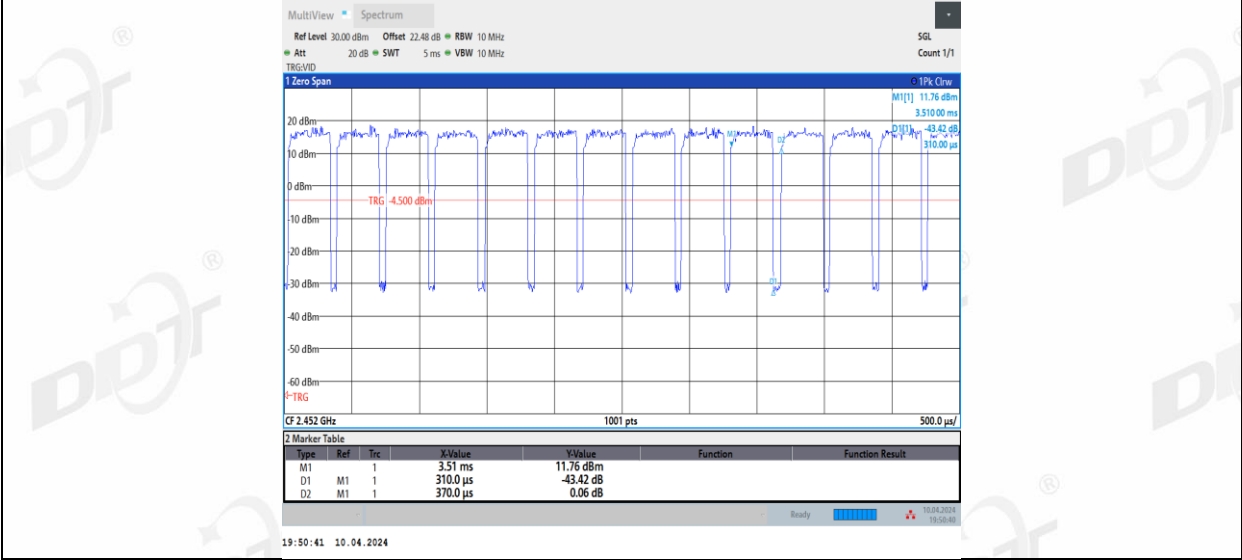
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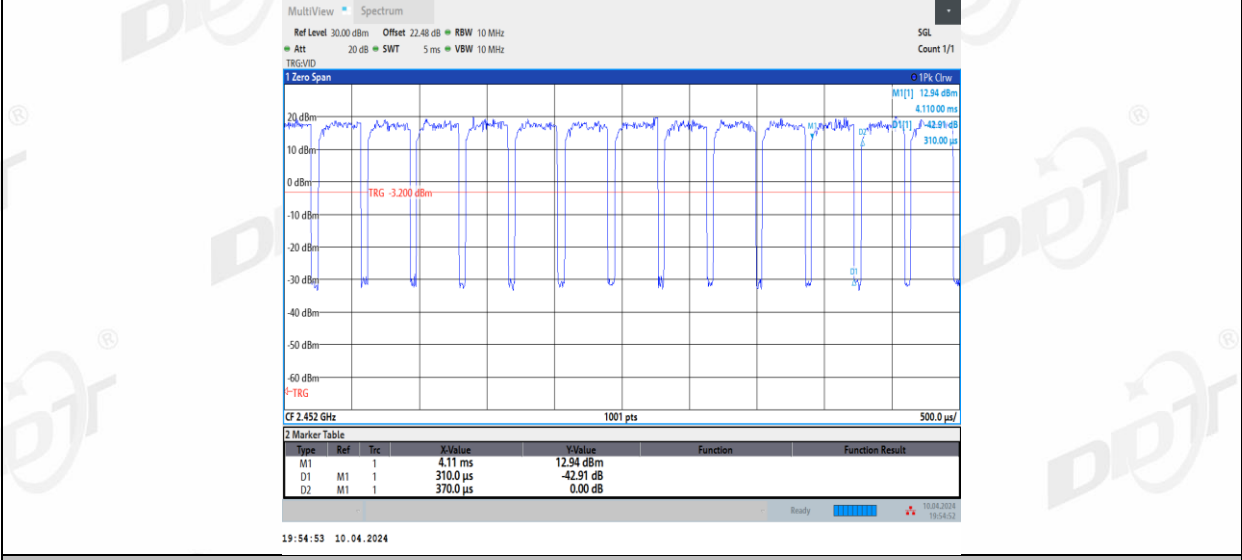
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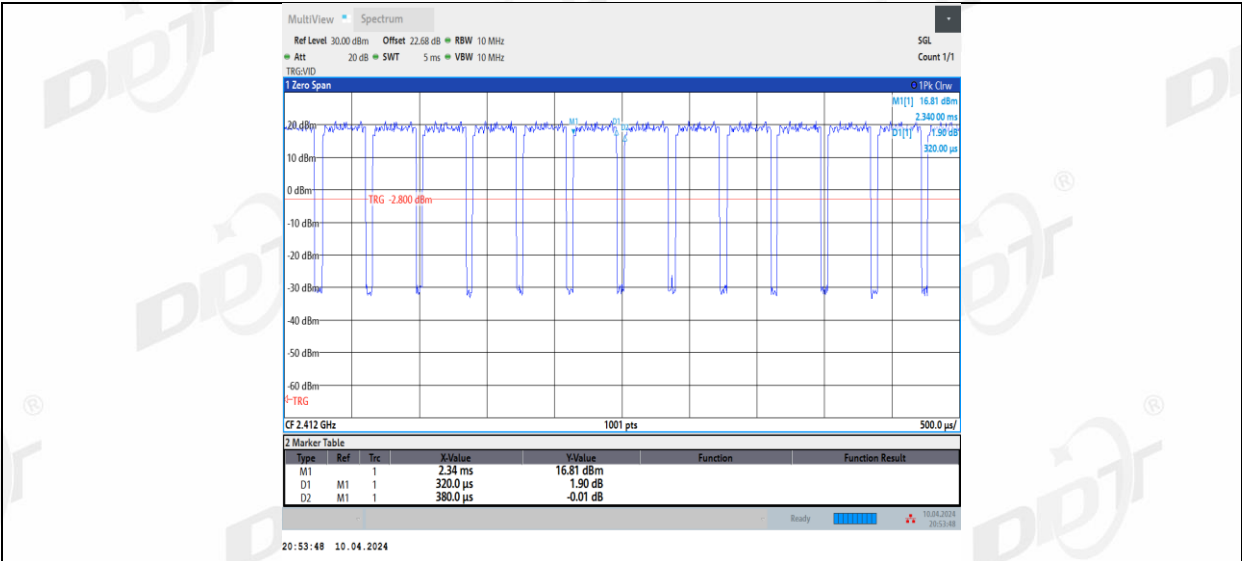
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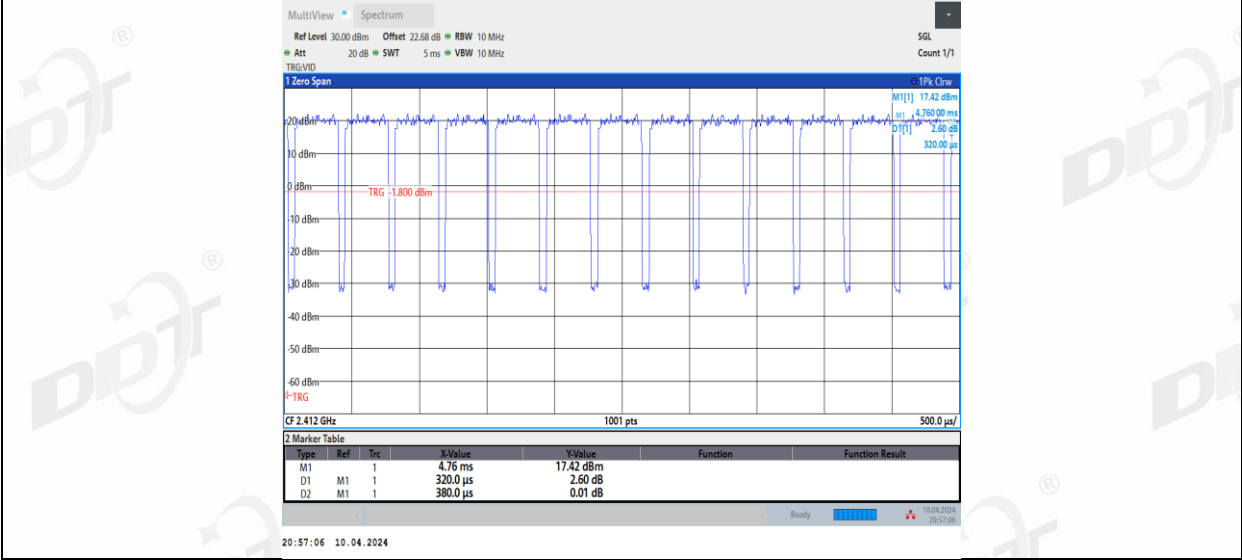
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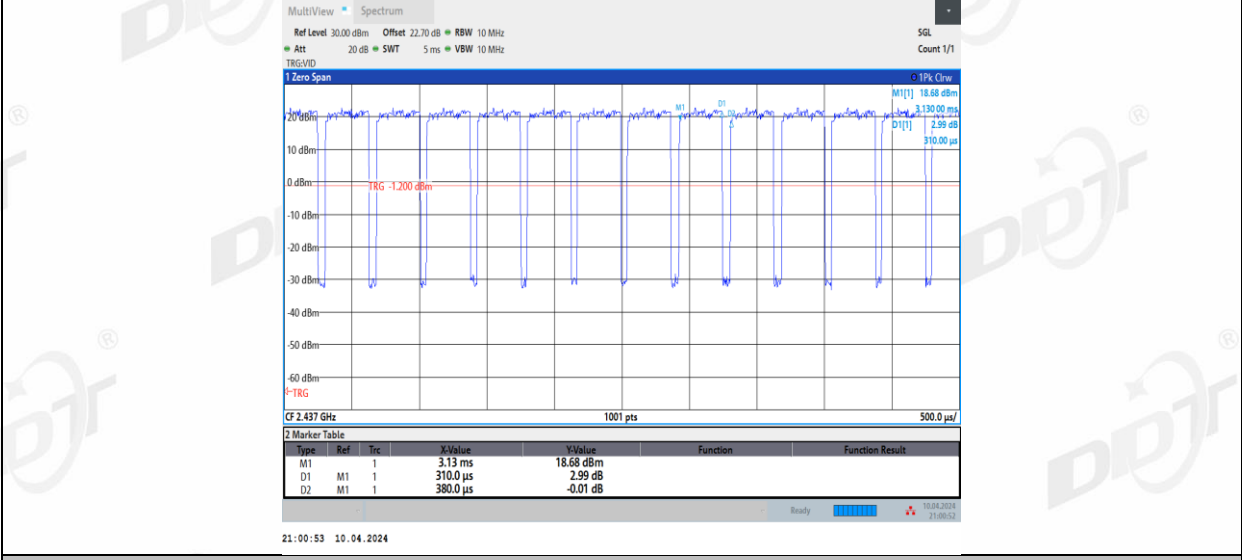
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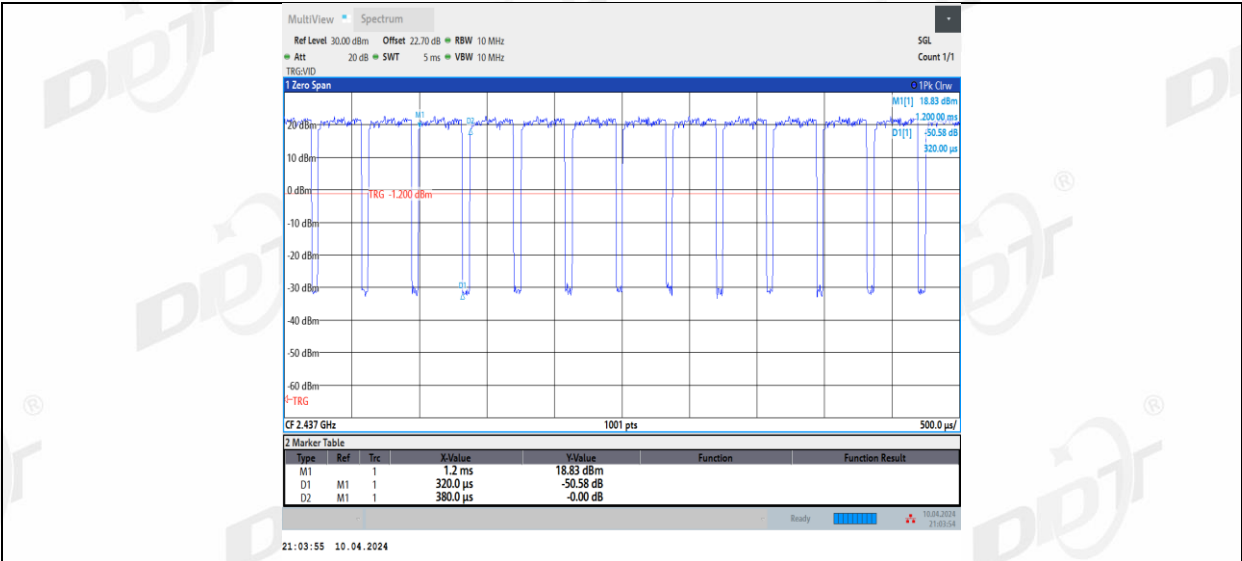
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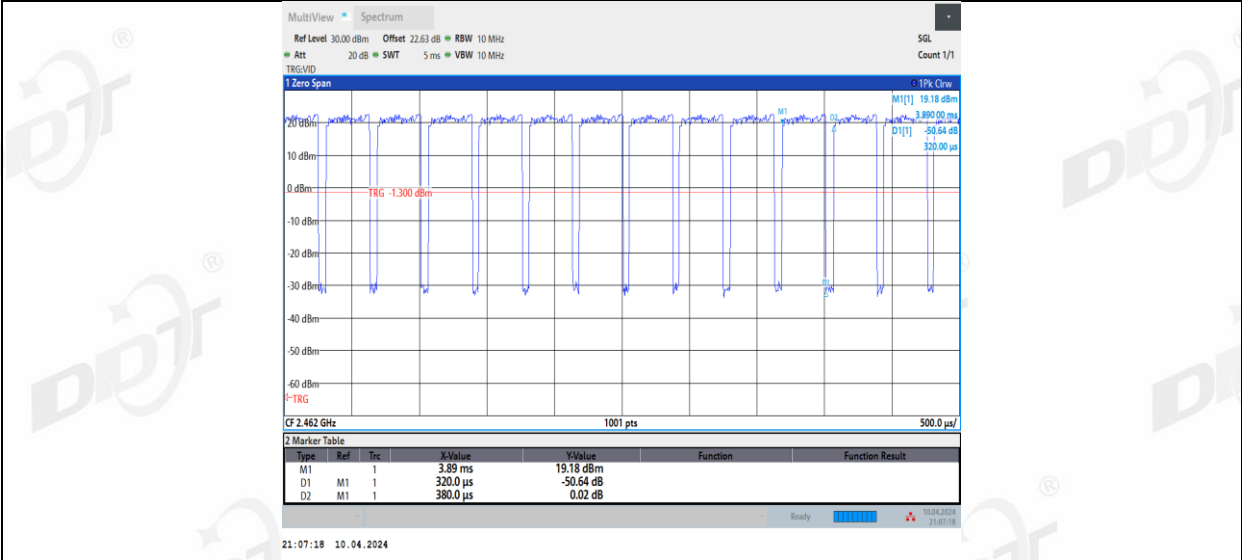
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11BE20MIMO_Ant2_2437



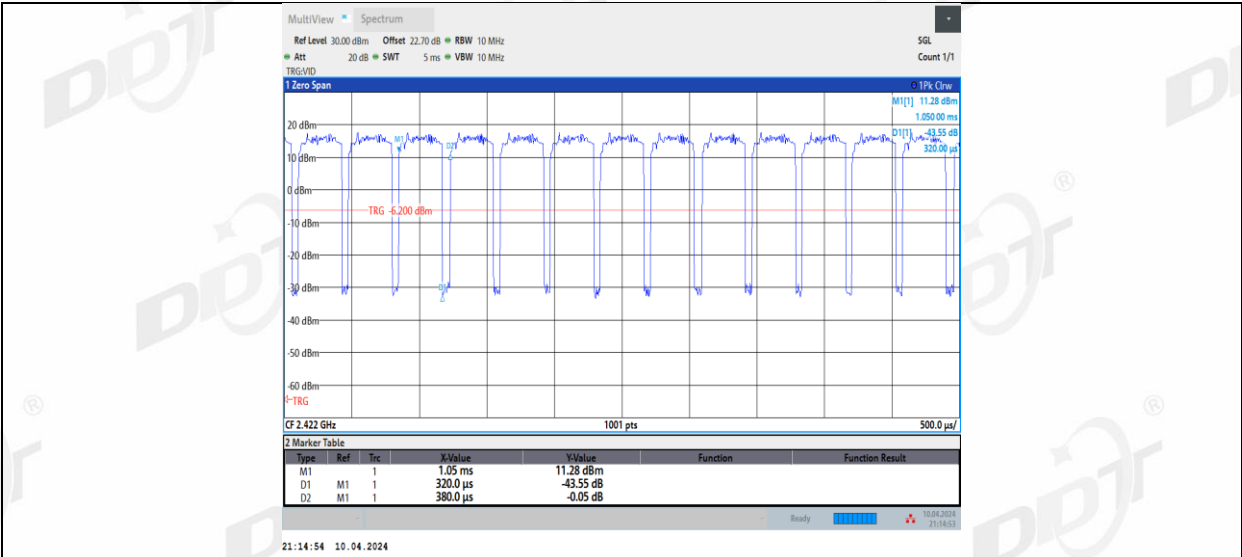
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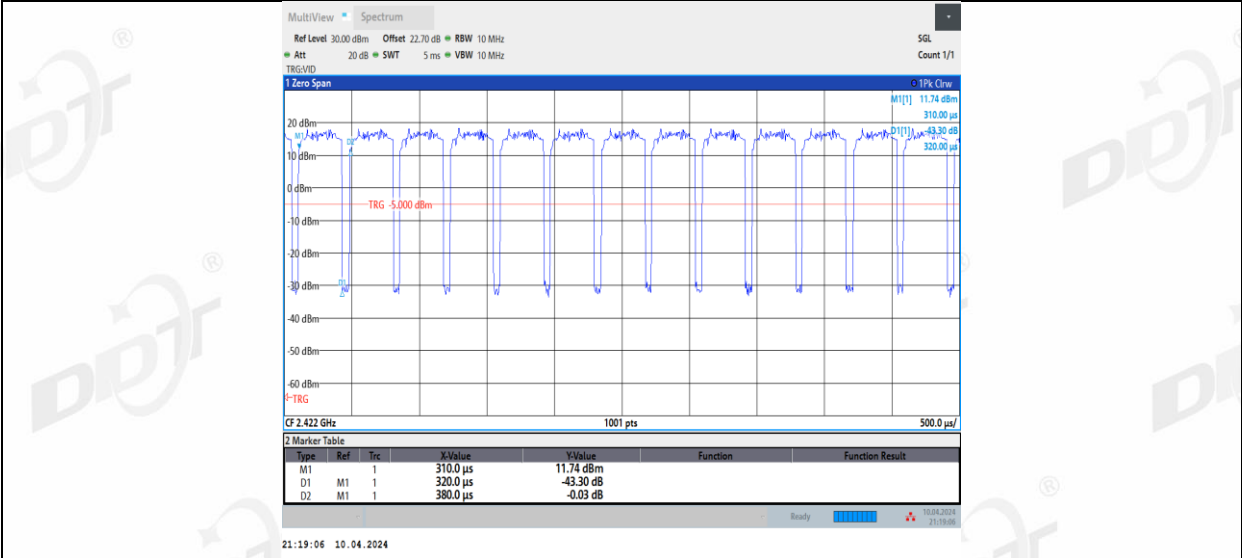
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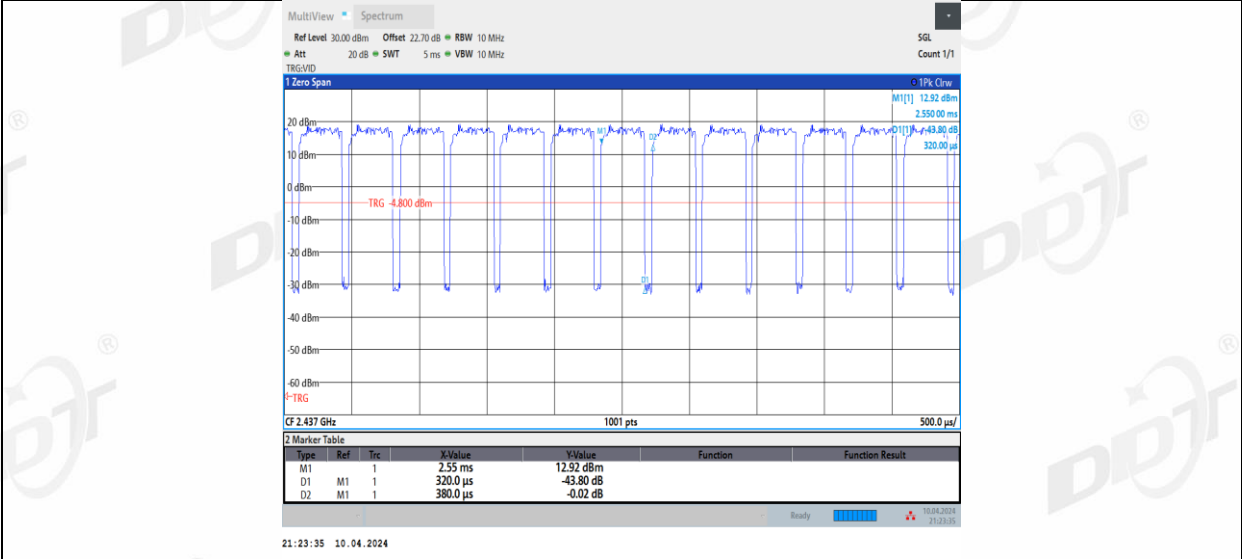
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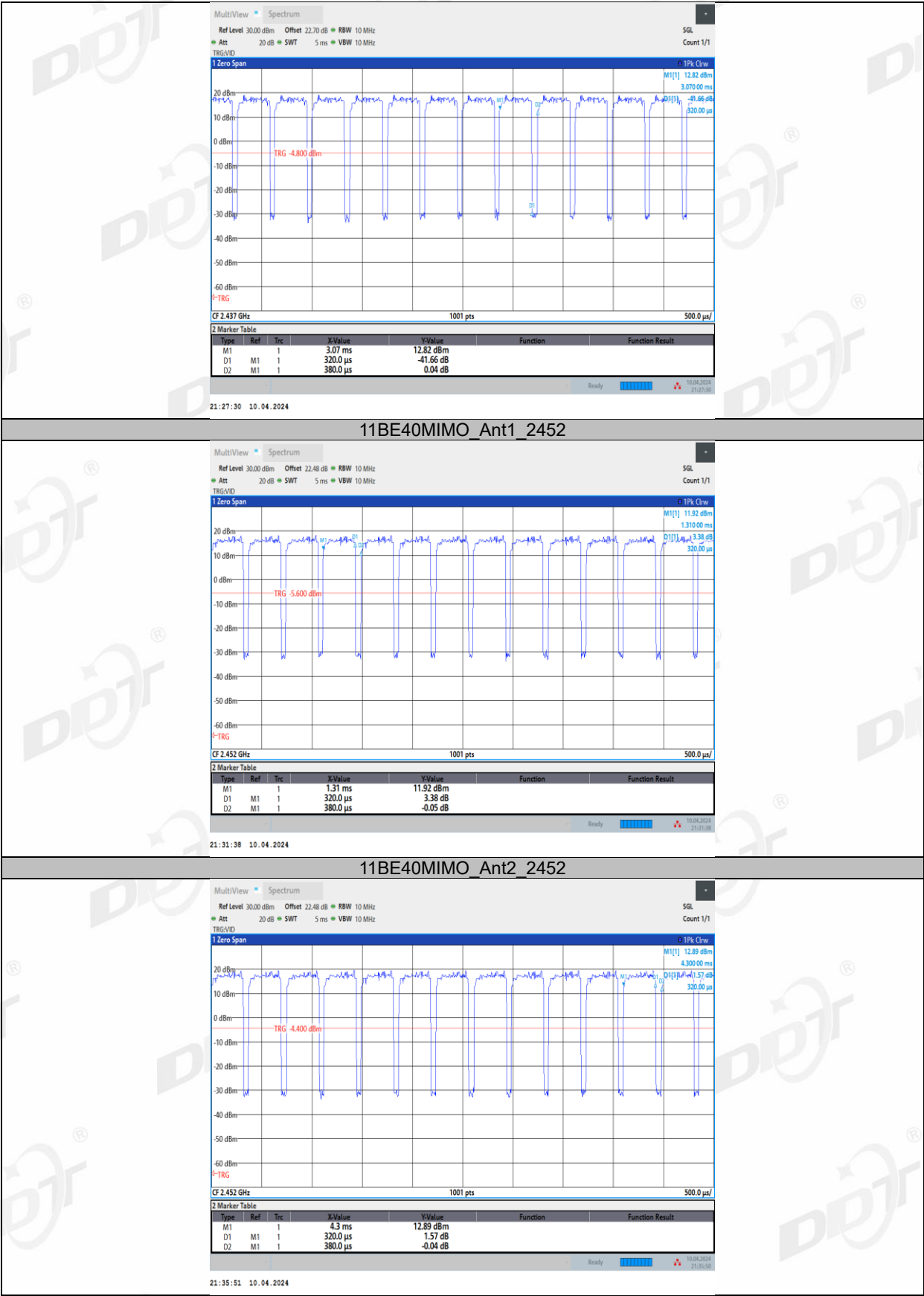
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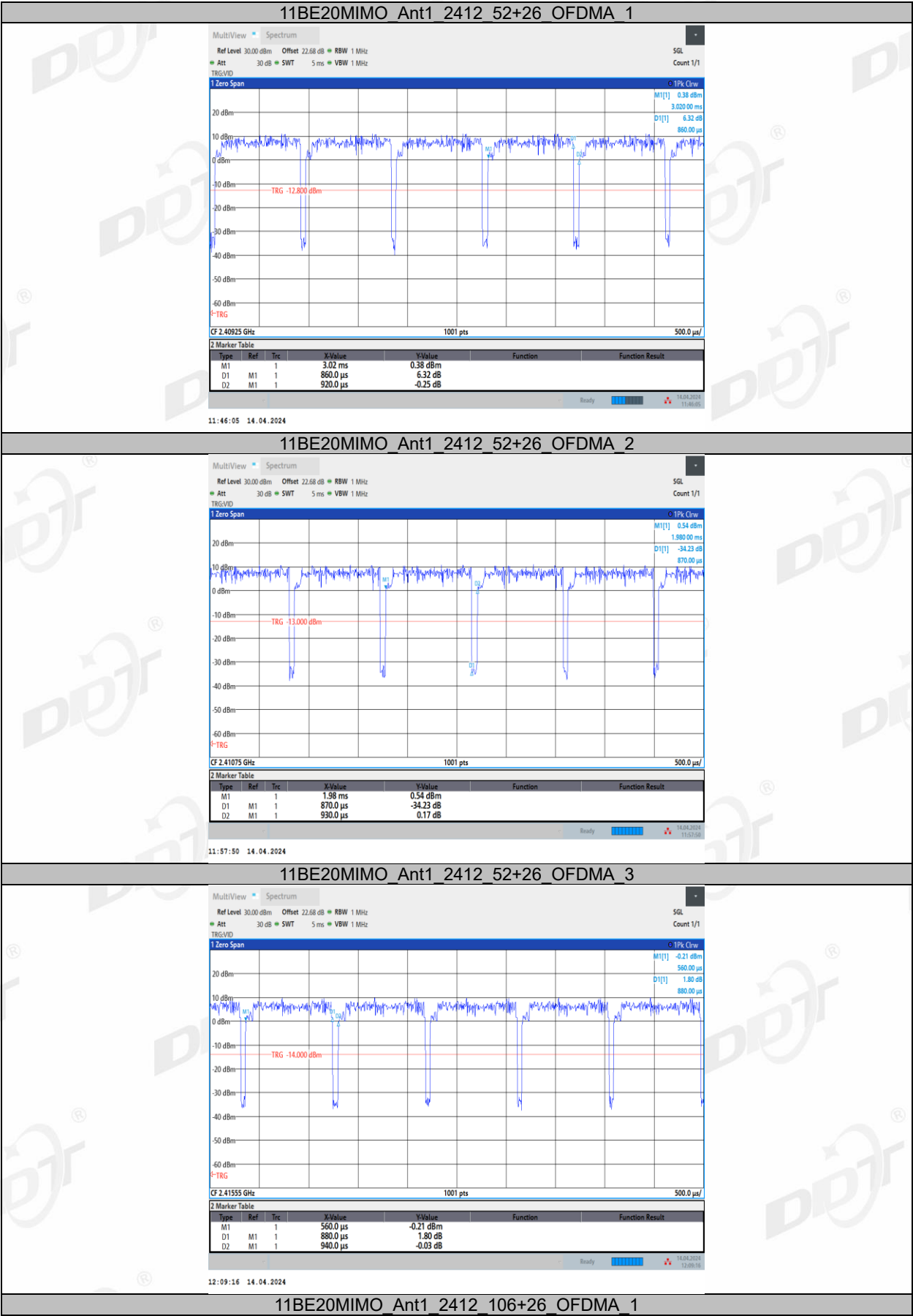


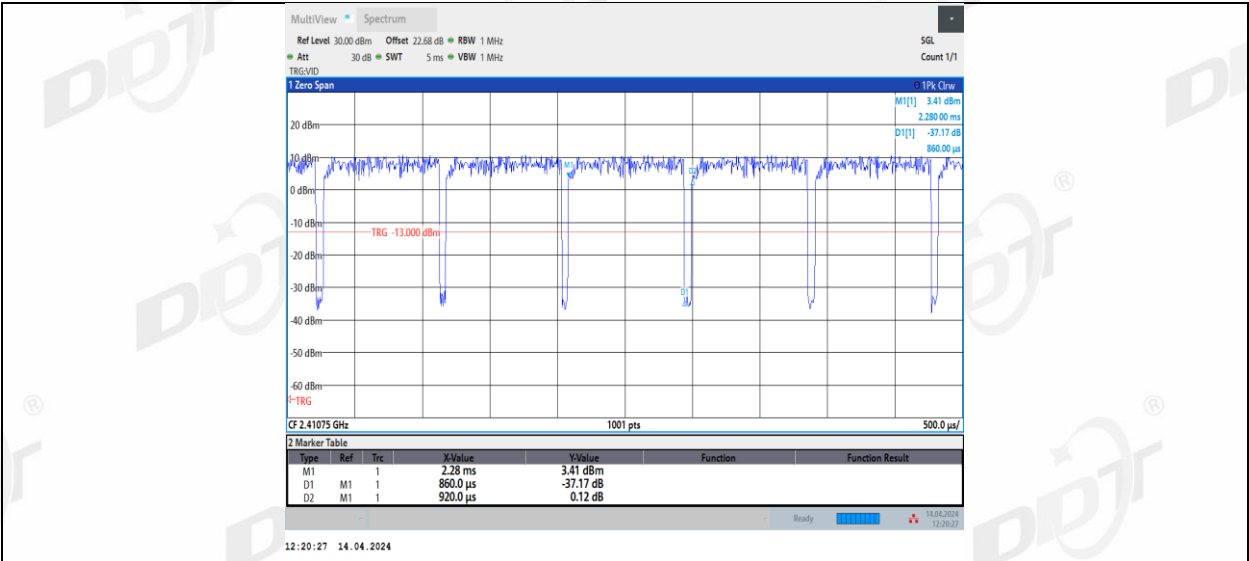
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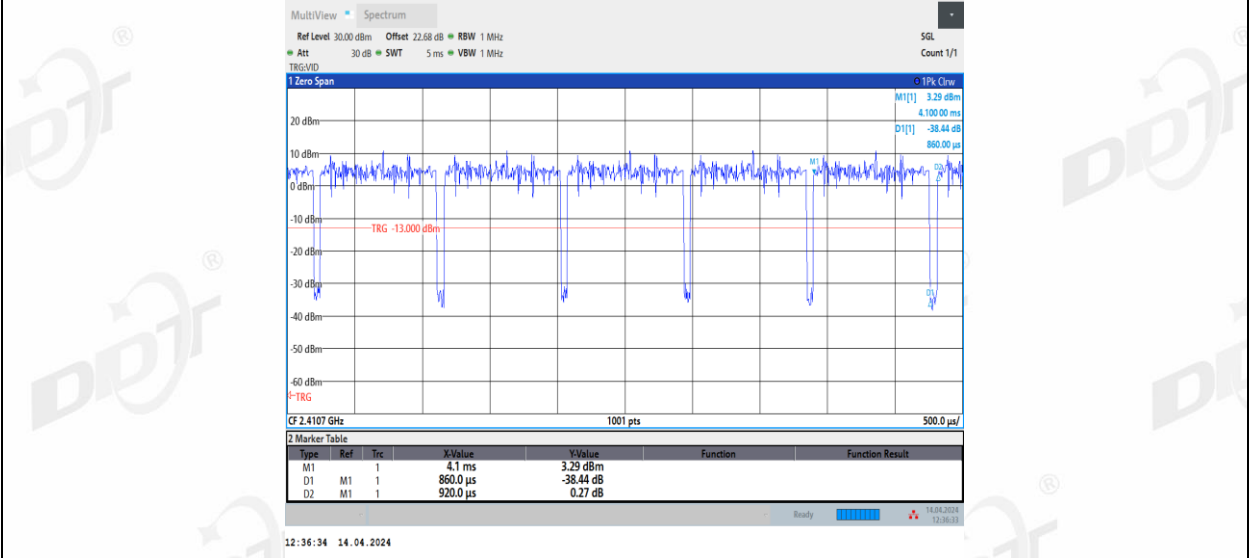
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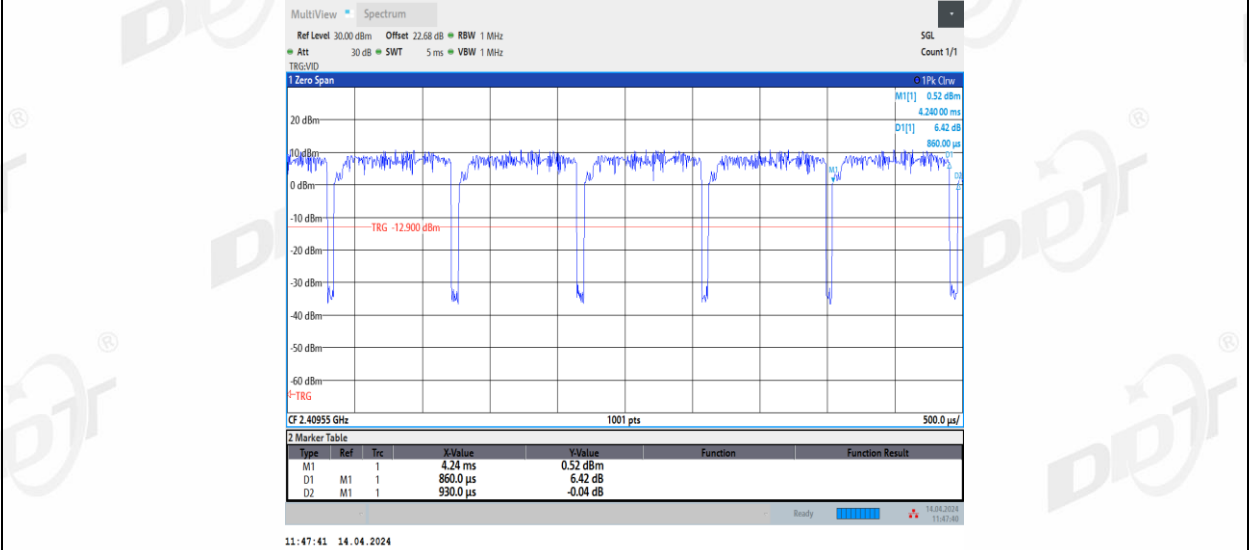




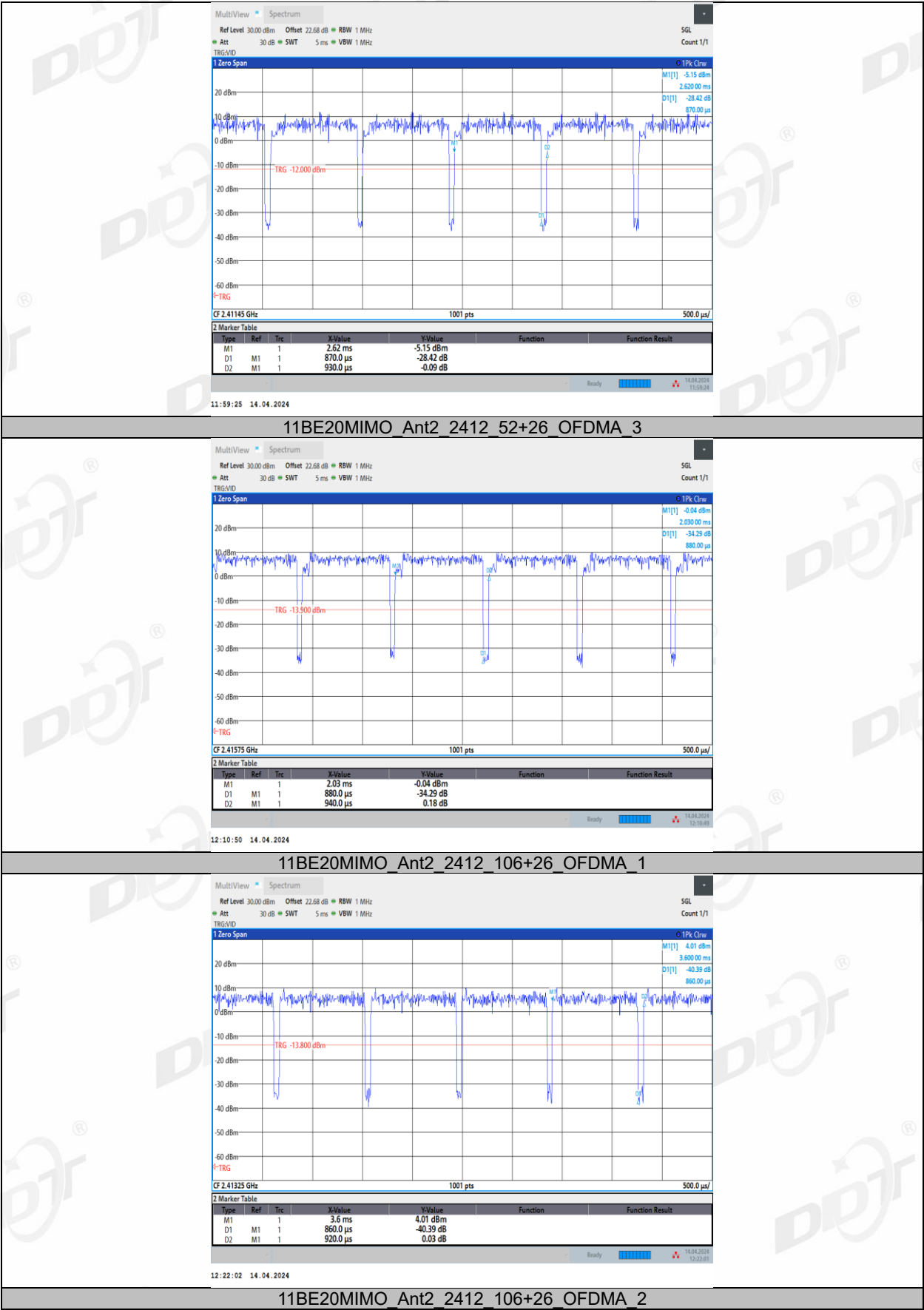
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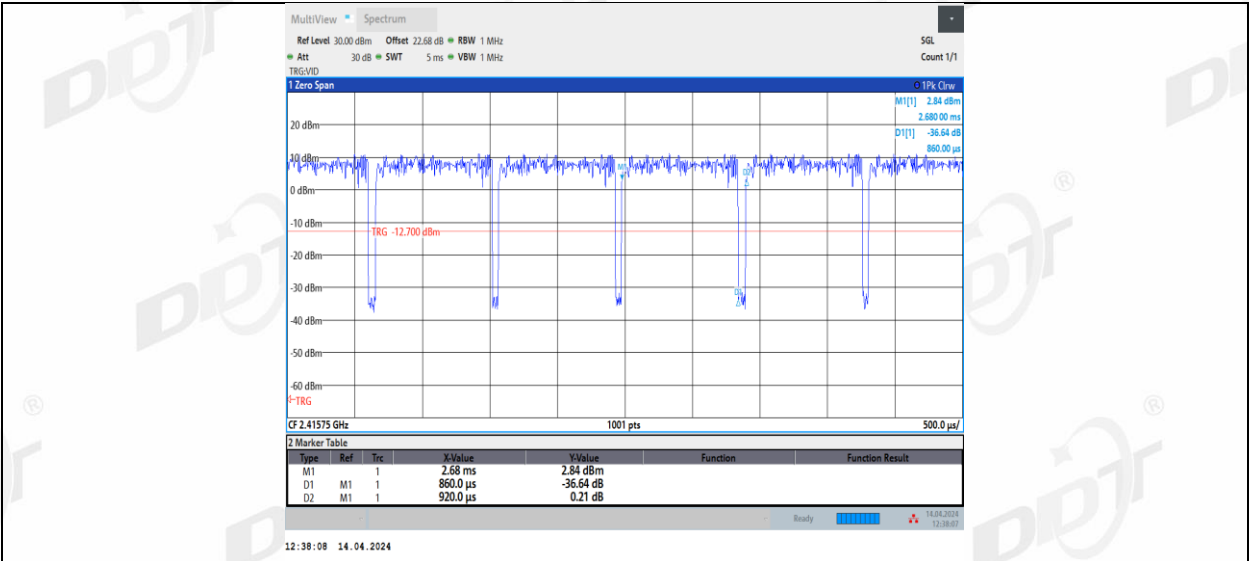


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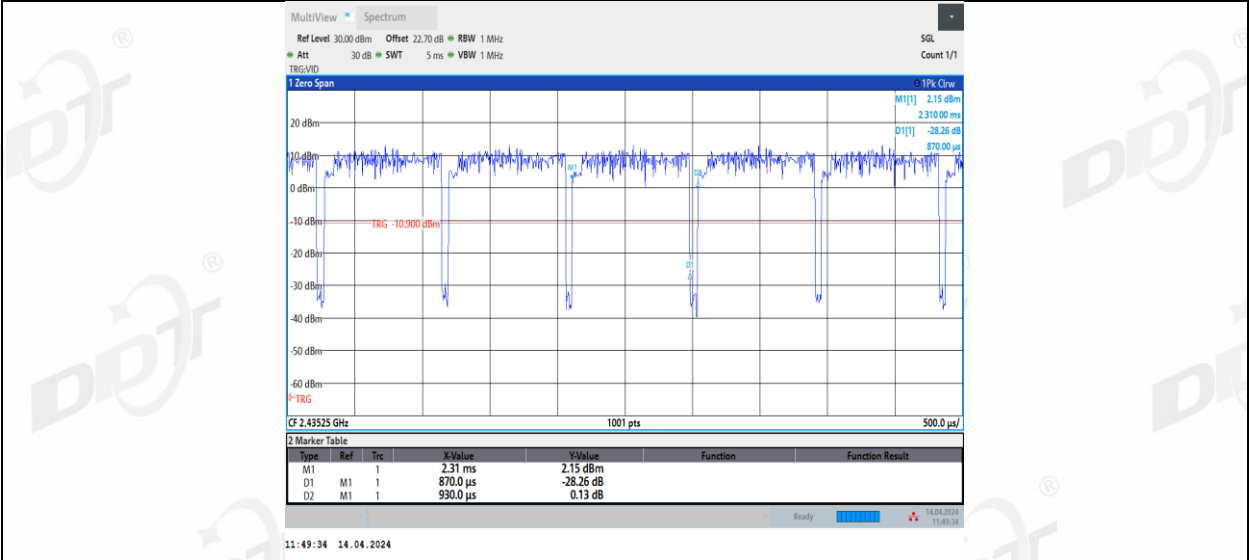


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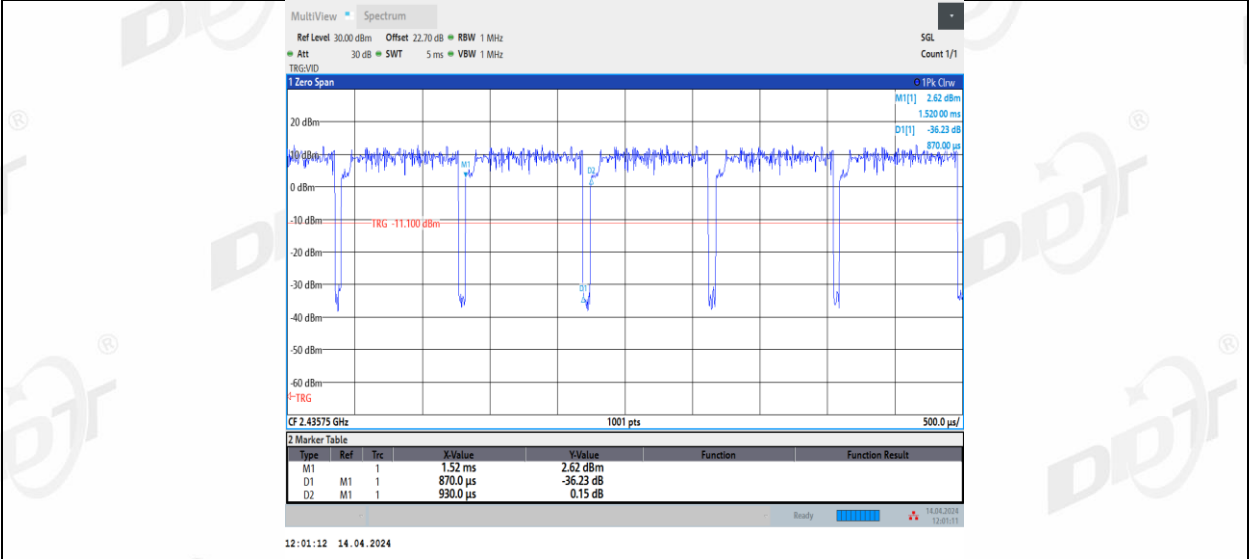




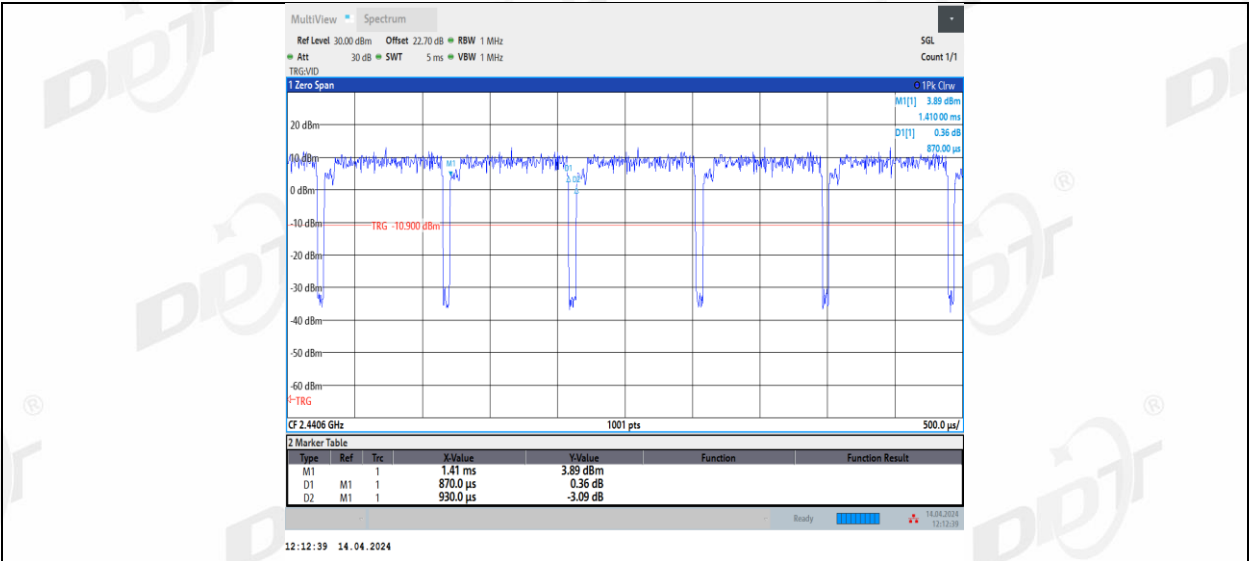
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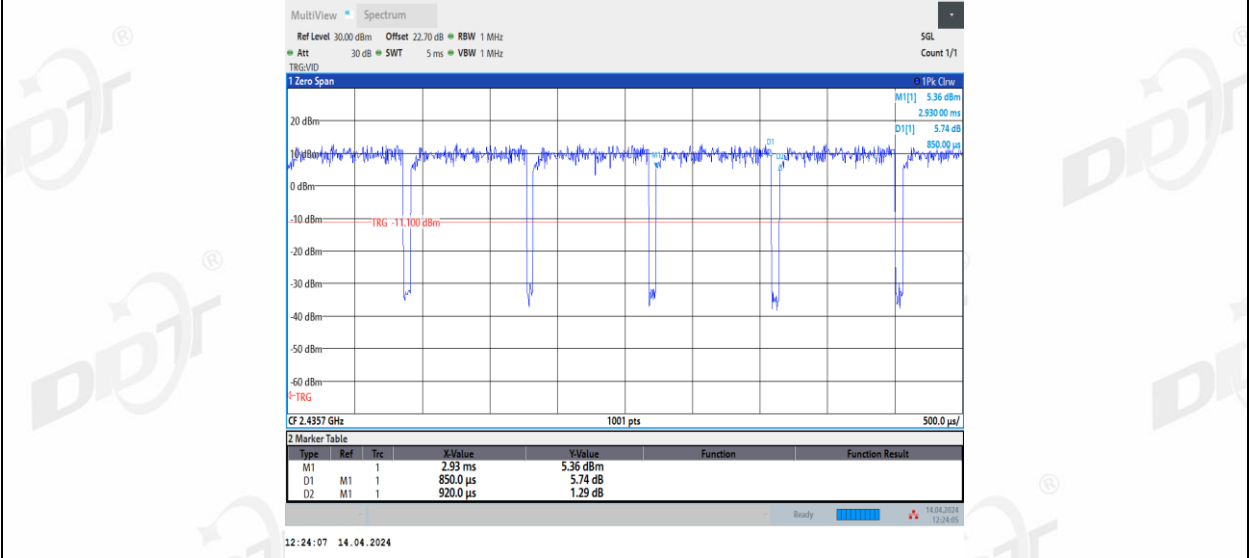
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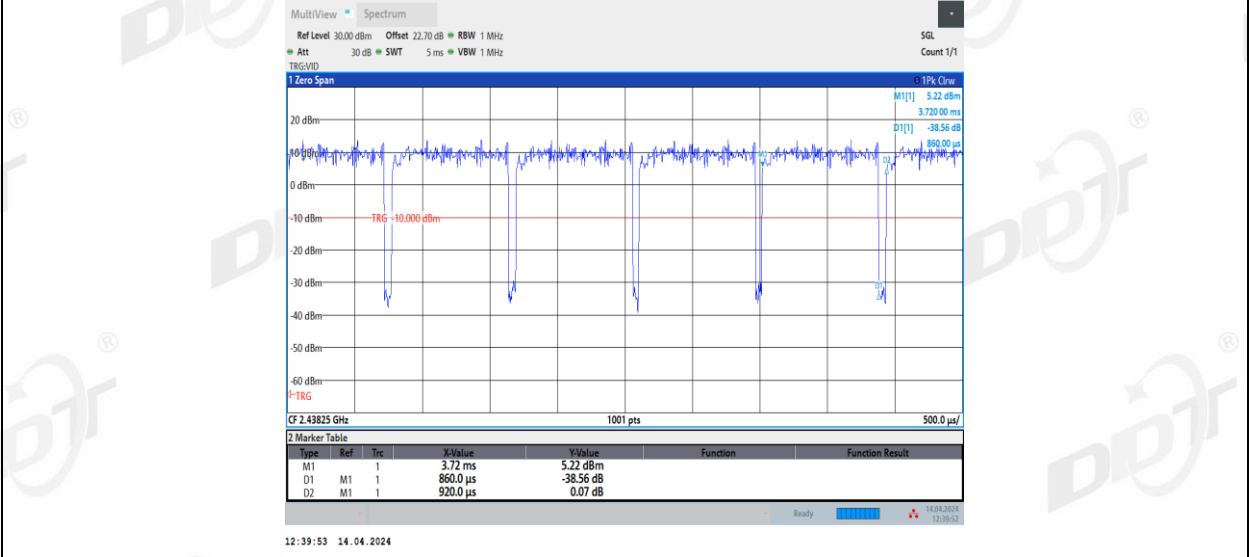
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11BE20MIMO_Ant1_2437_106+26_OFDMA_1



11BE20MIMO_Ant1_2437_106+26_OFDMA_2

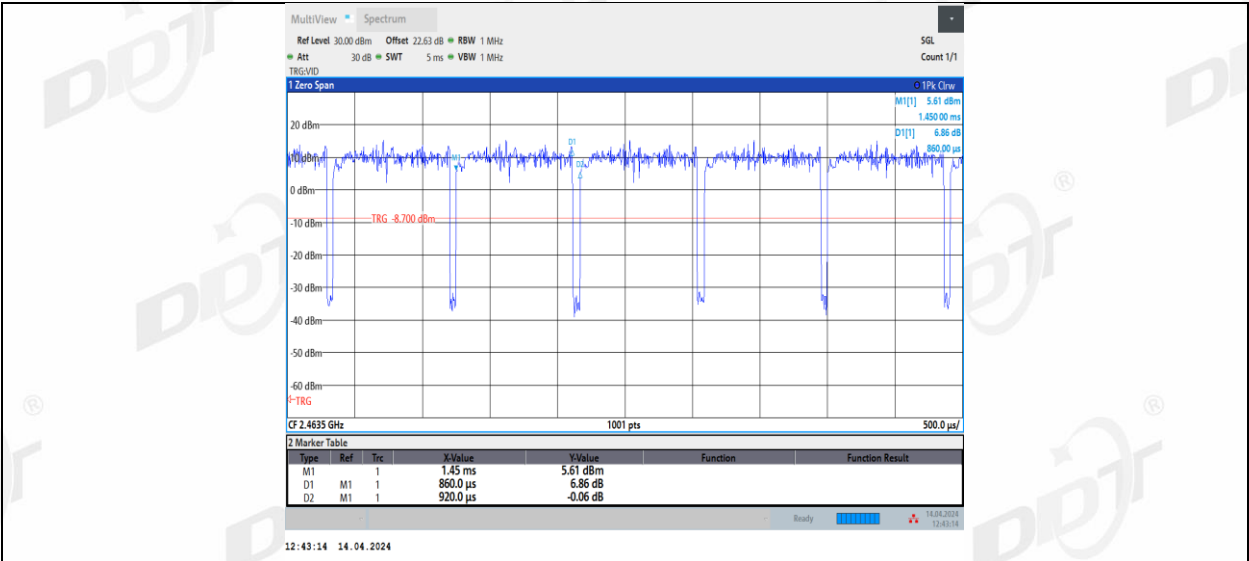


11BE20MIMO_Ant2_2437_52+26_OFDMA_1

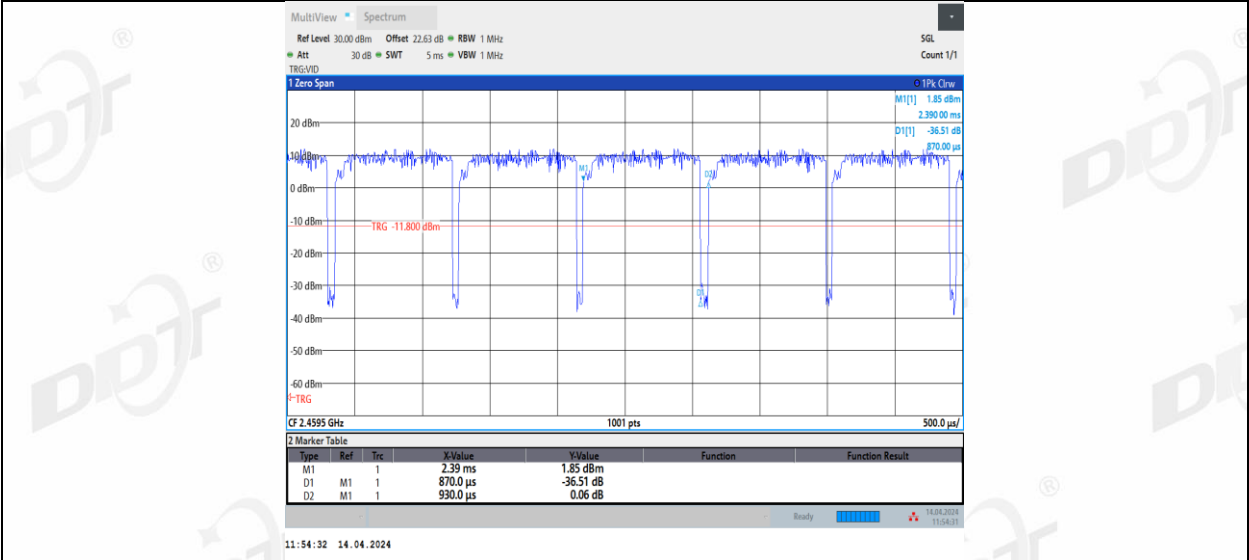




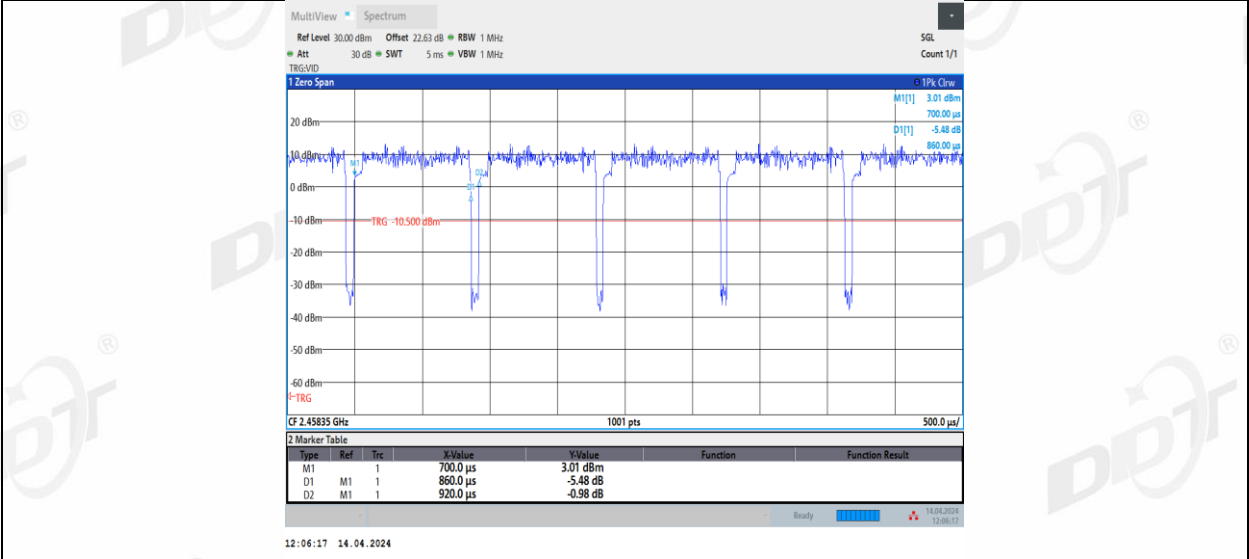




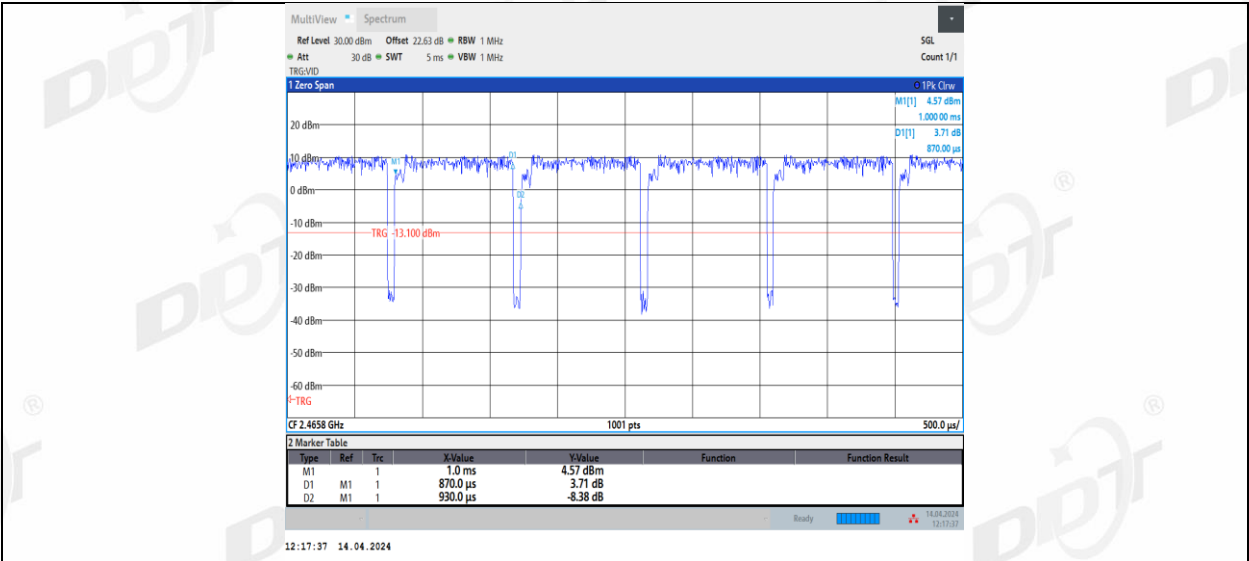
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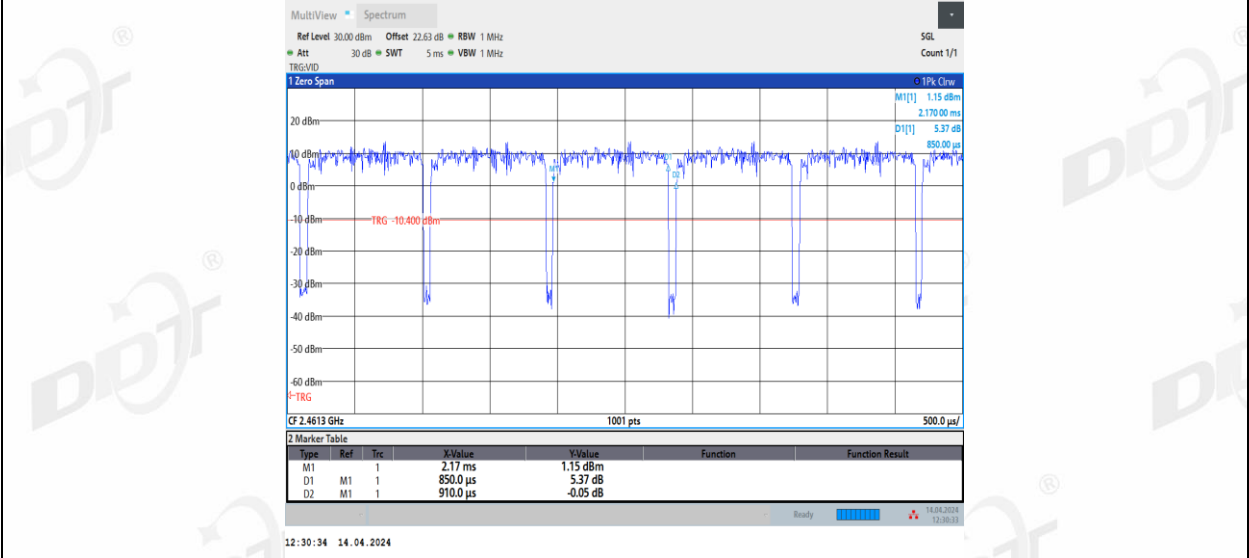
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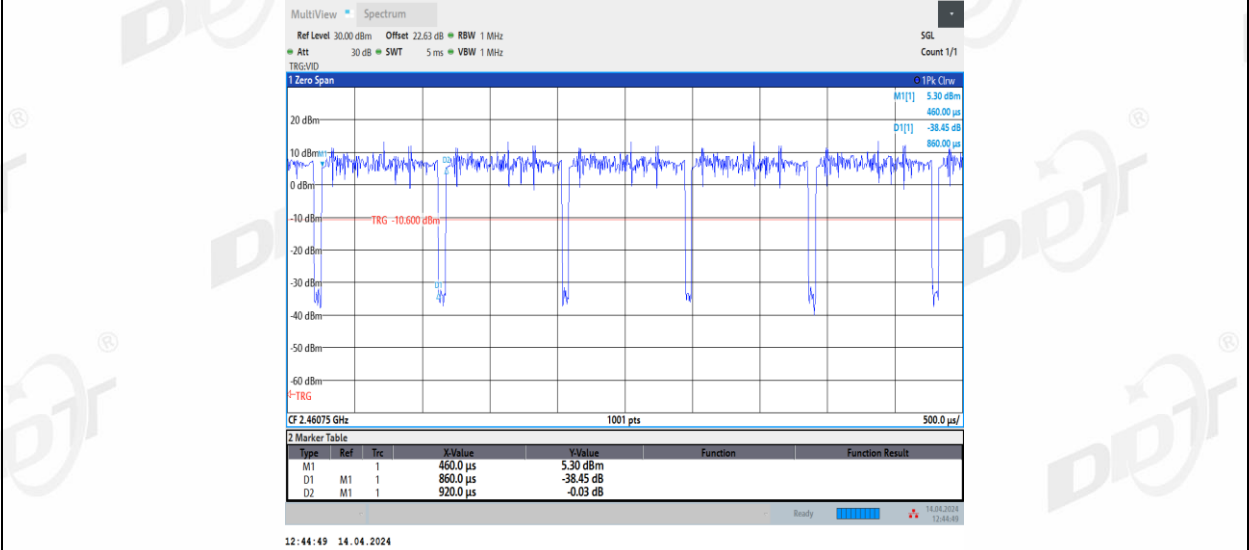
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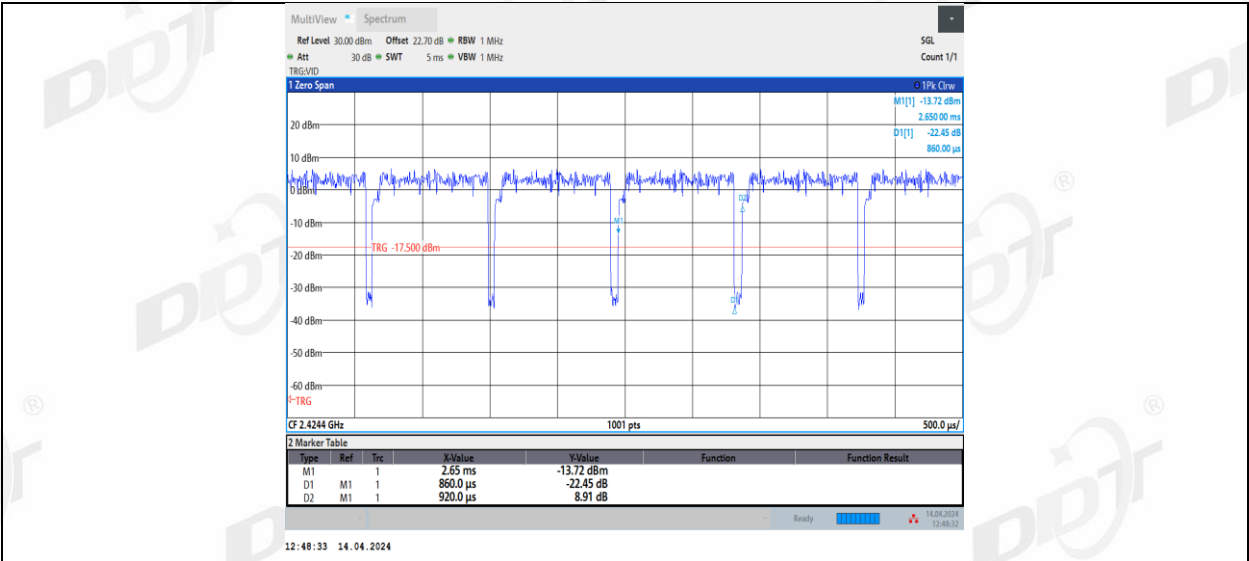
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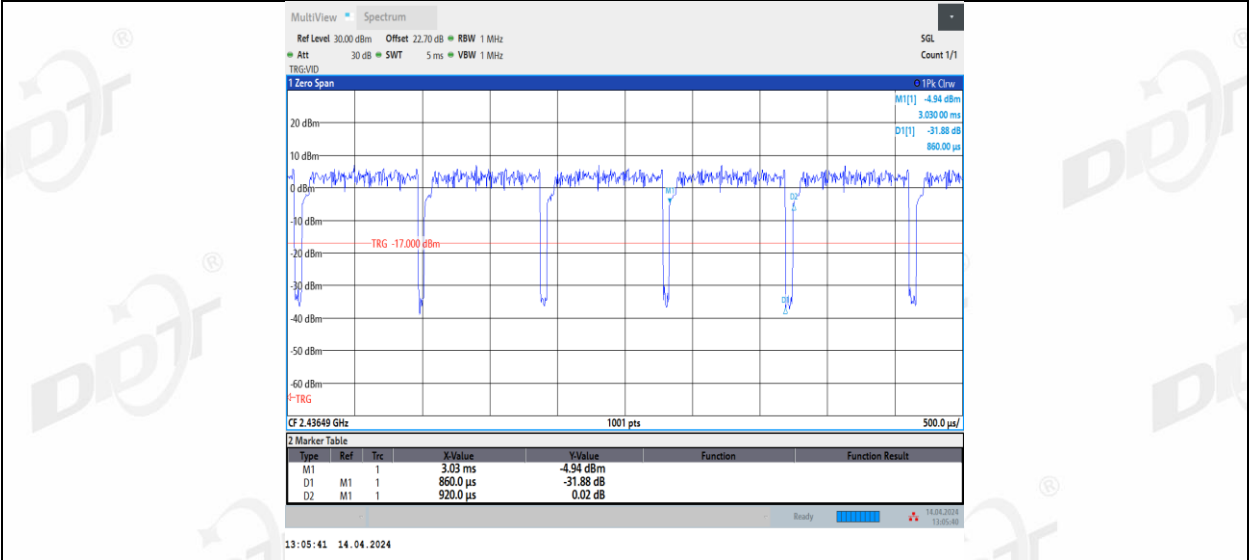
11BE20MIMO_Ant2_2462_106+26_OFDMA_2



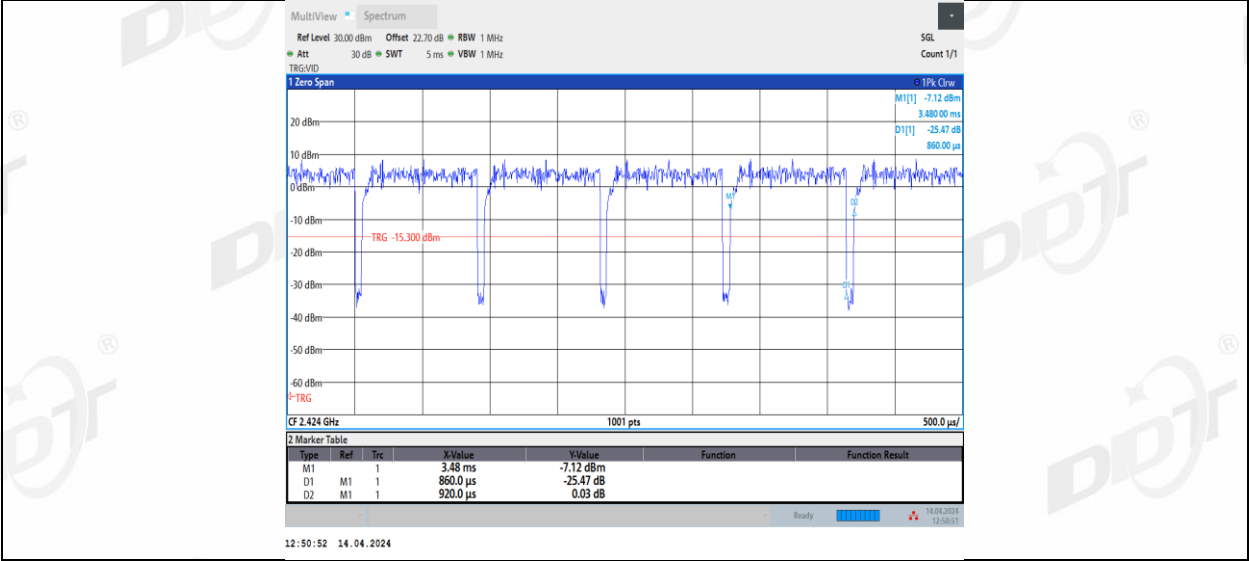
11BE40MIMO_Ant1_2422_106+26_OFDMA_3



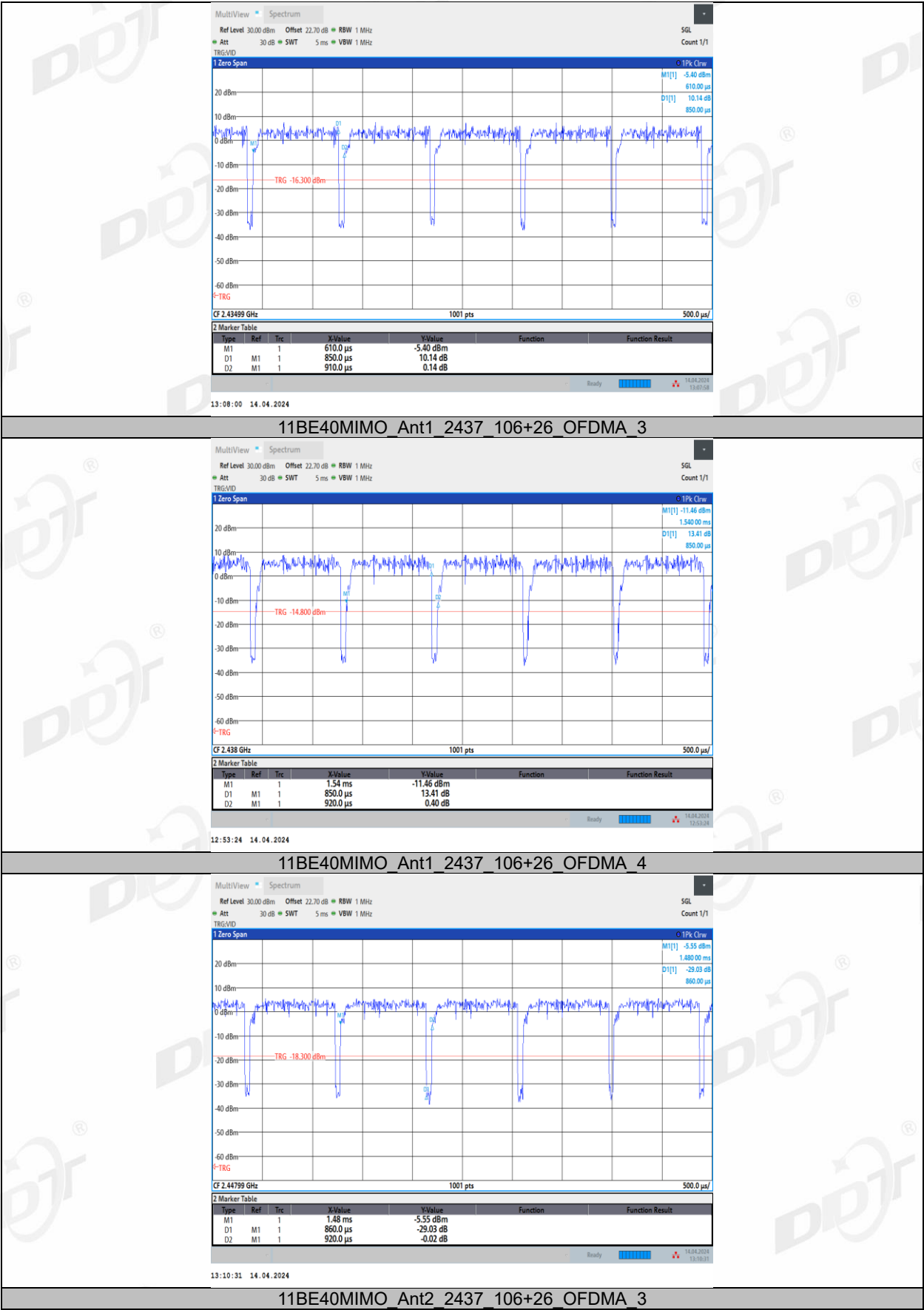
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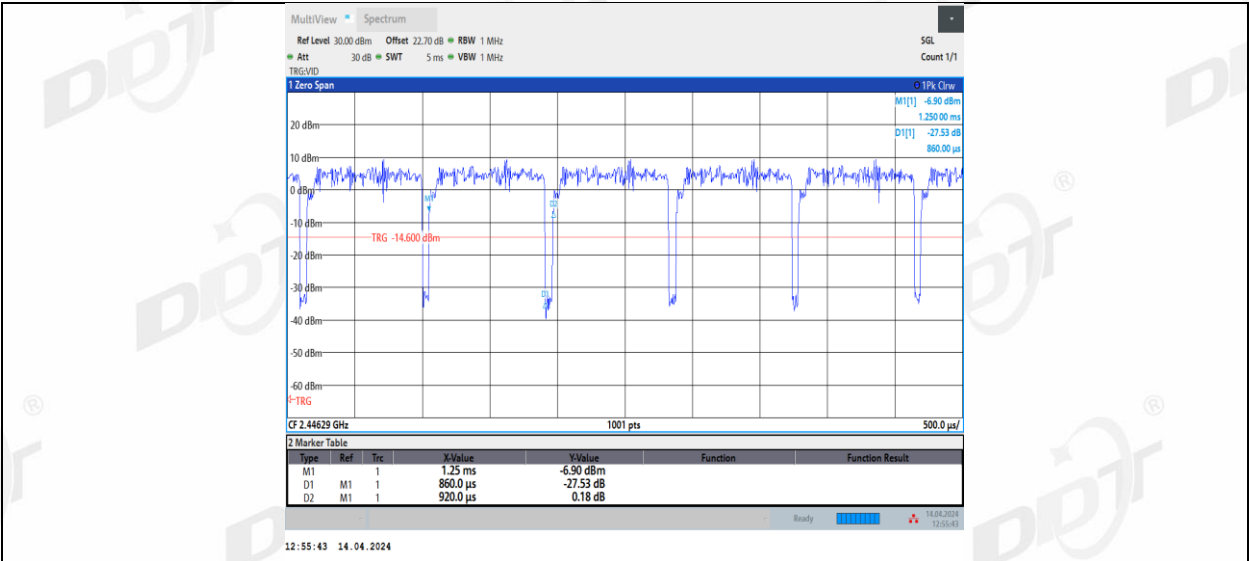


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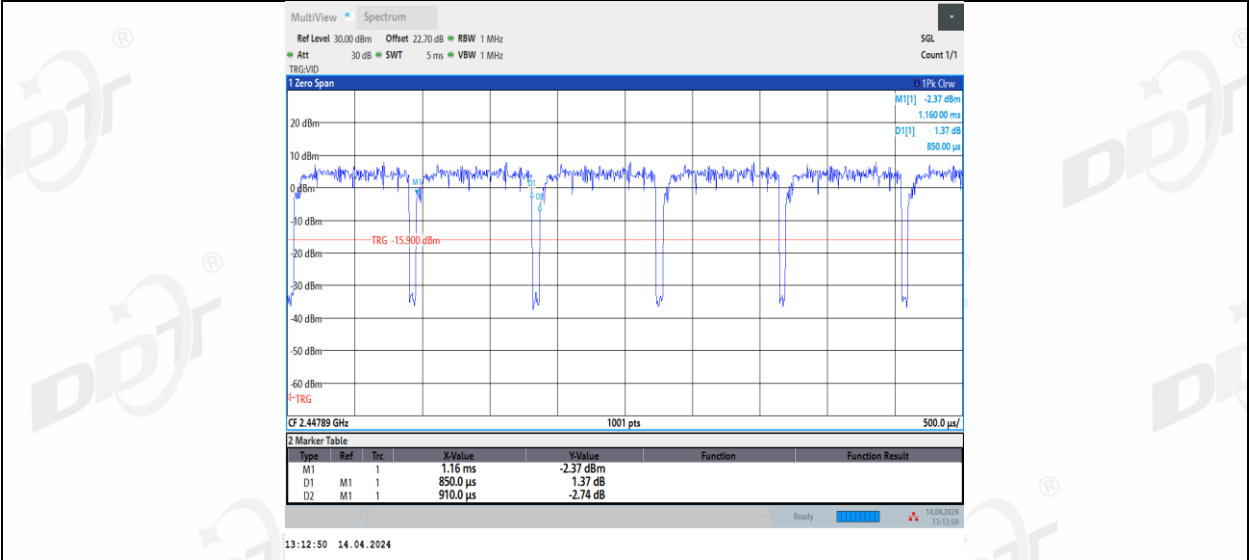


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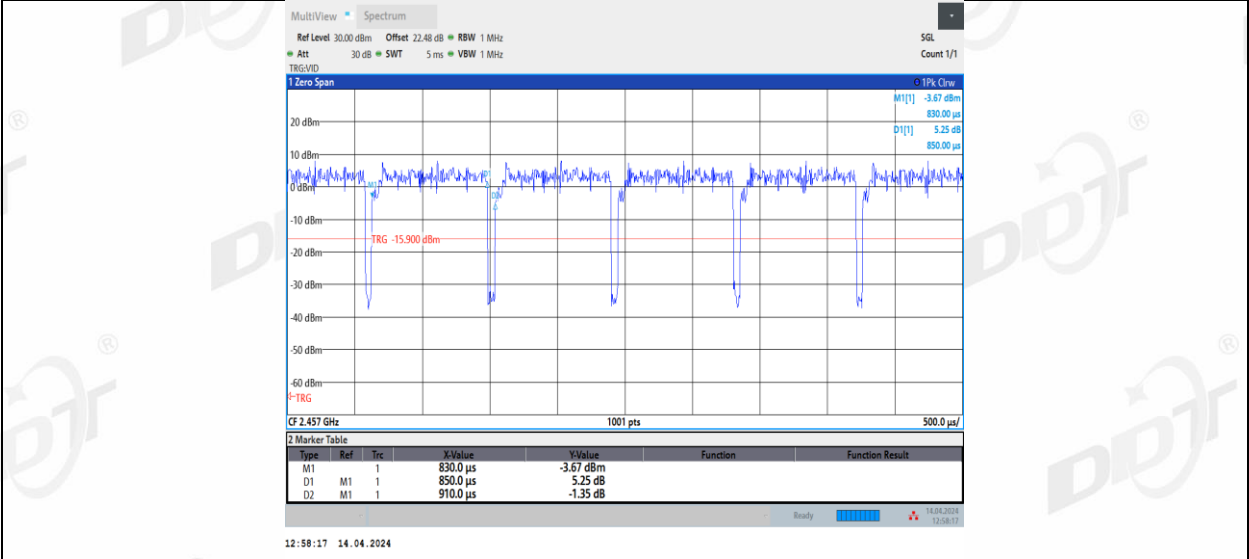




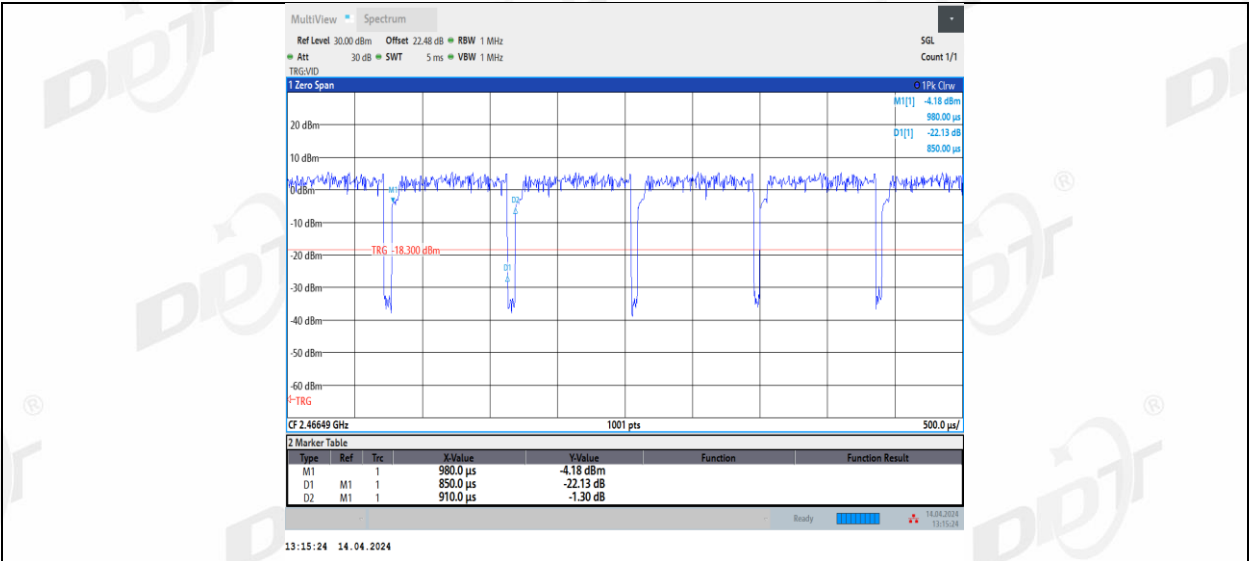
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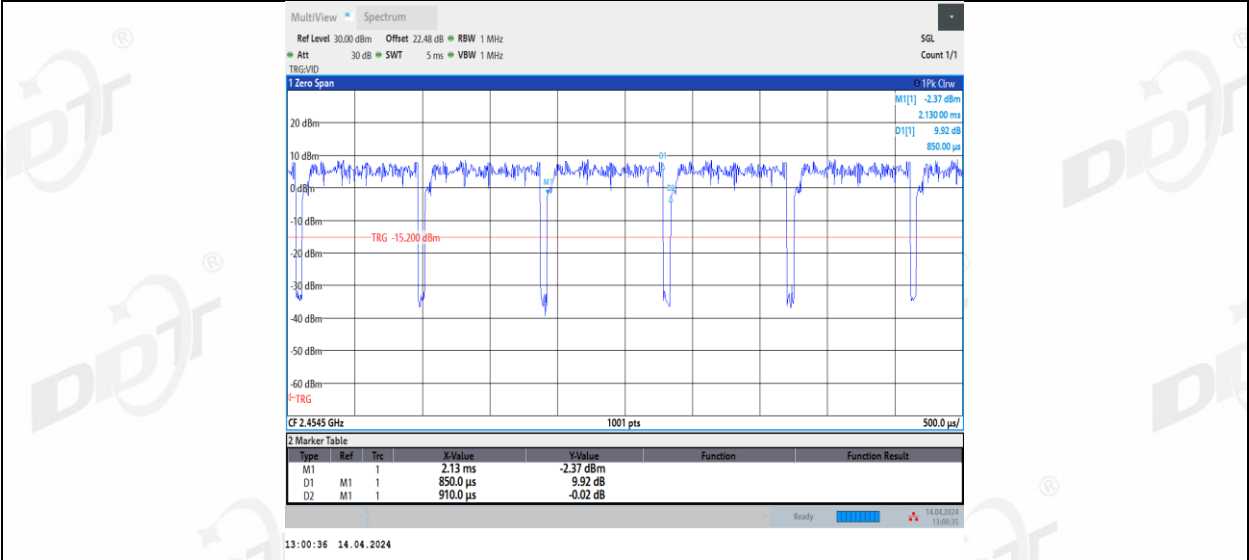
11BE40MIMO_Ant1_2452_106+26_OFDMA_3



11BE40MIMO_Ant1_2452_106+26_OFDMA_4



11BE40MIMO_Ant2_2452_106+26_OFDMA_3



11BE40MIMO_Ant2_2452_106+26_OFDMA_4

