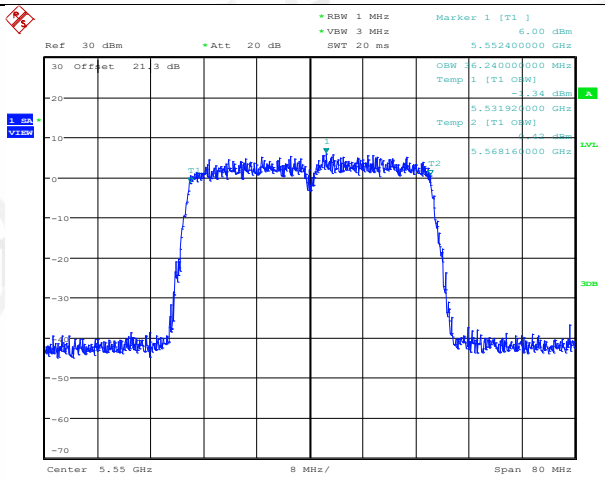
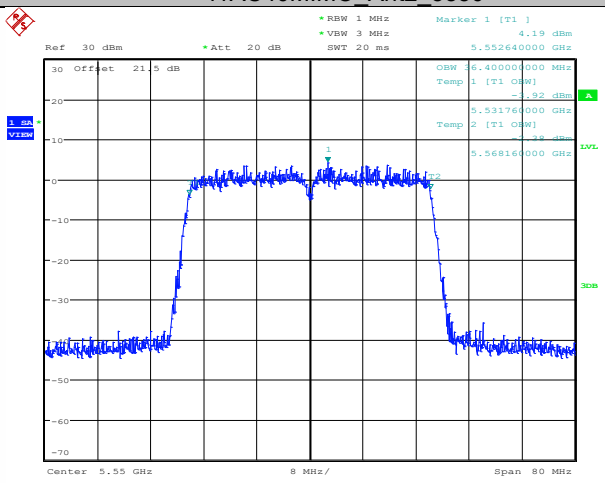


11AC40MIMO_Ant2_5550



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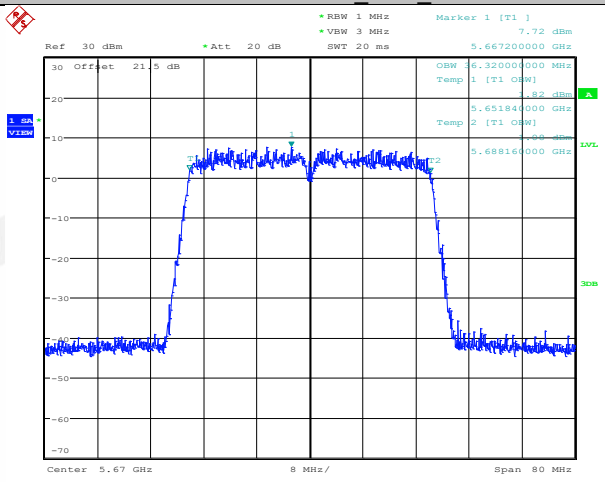

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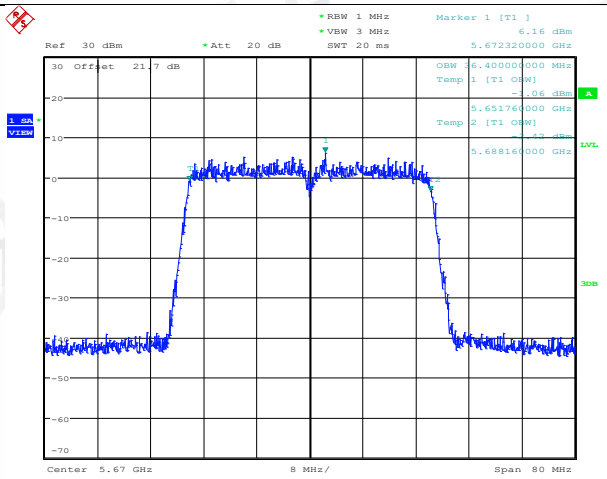

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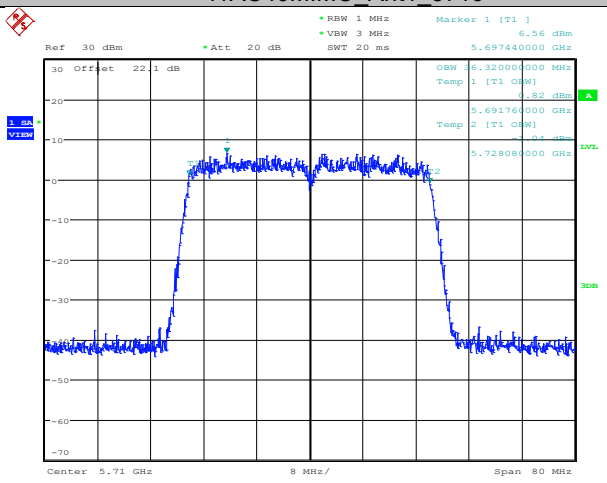

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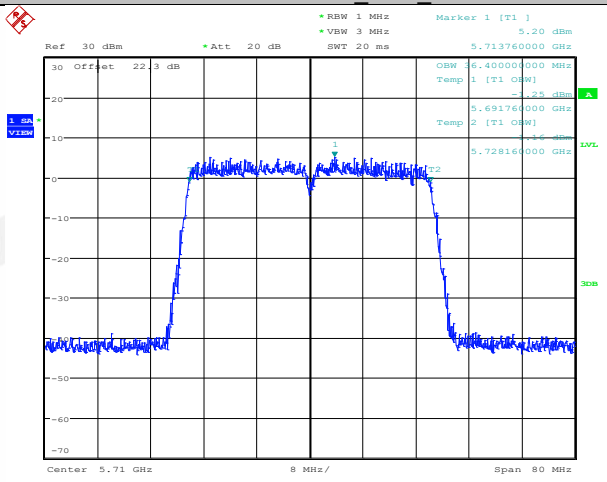

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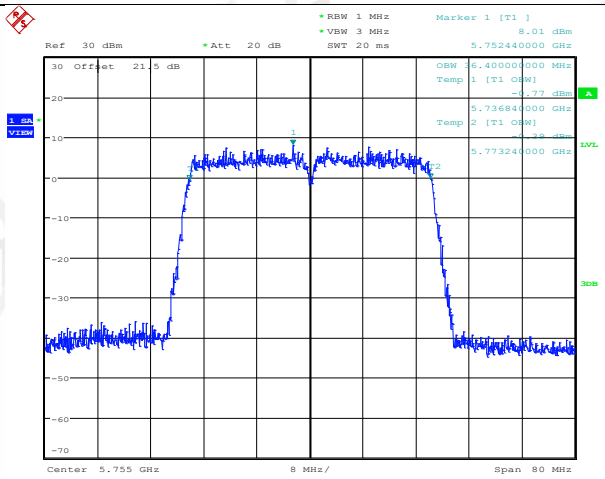

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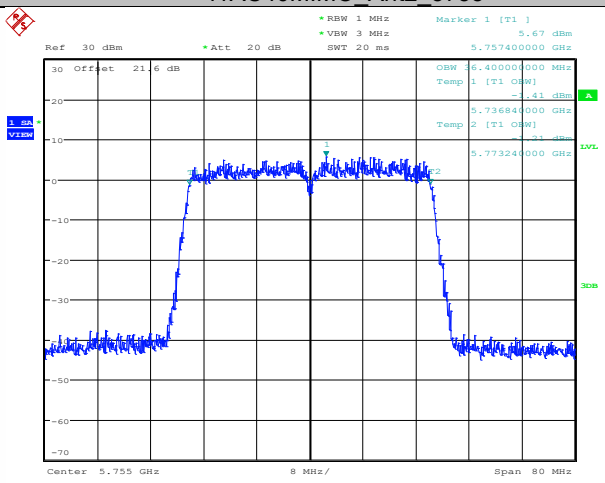

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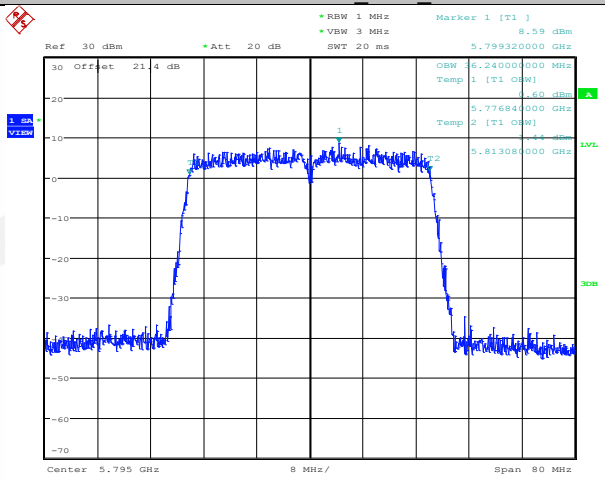

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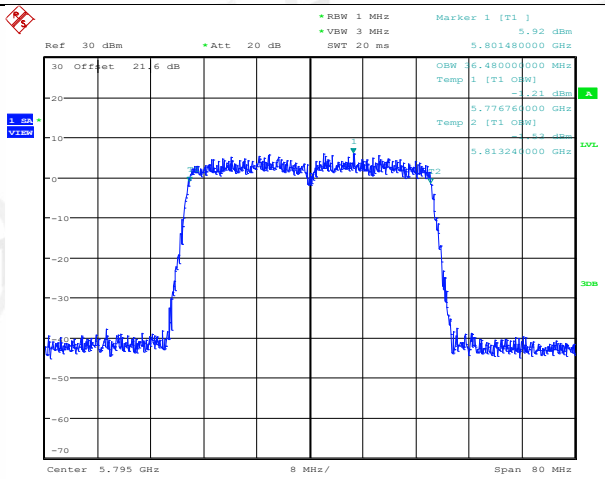

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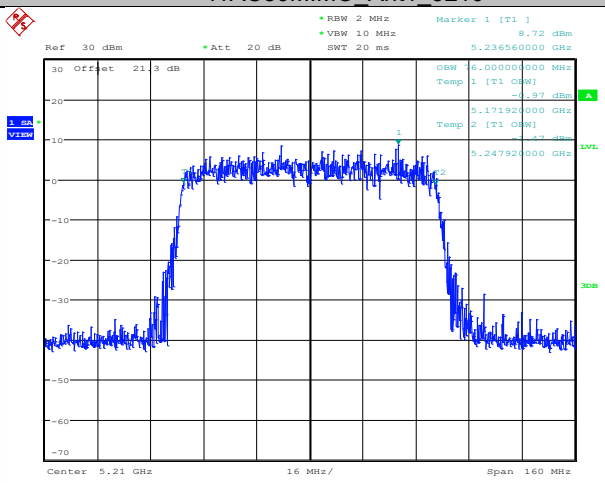

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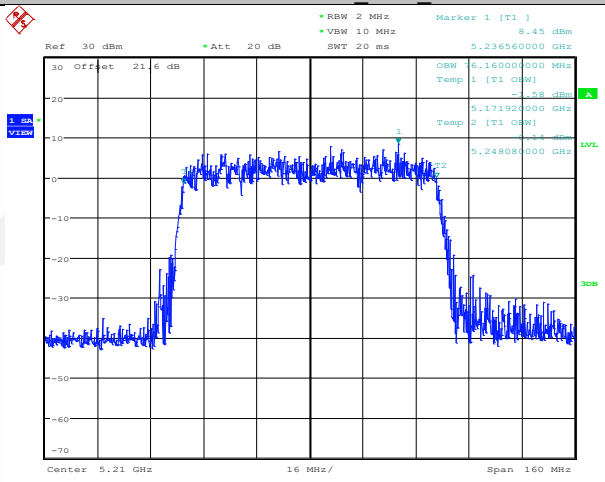

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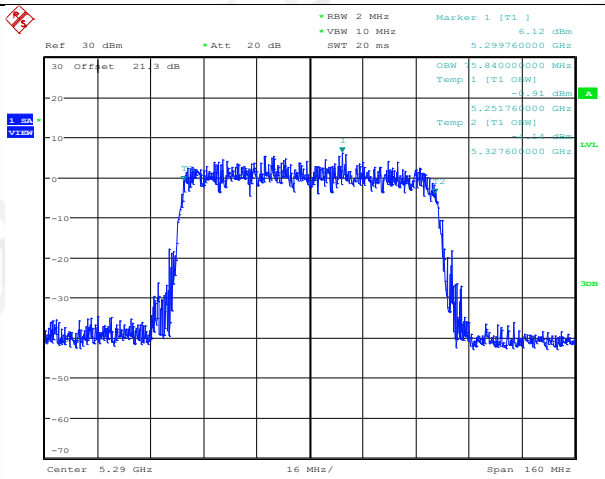

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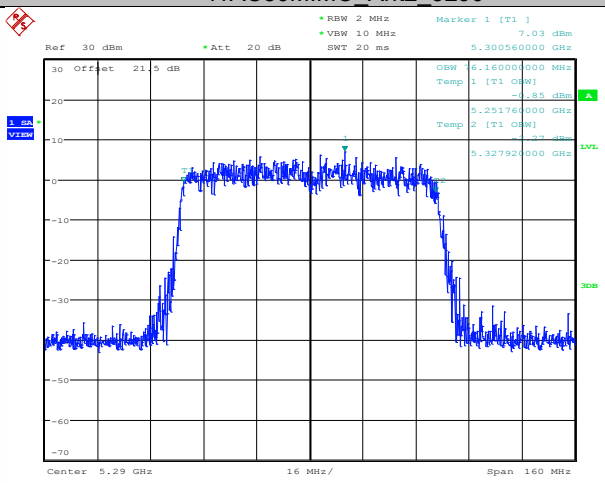

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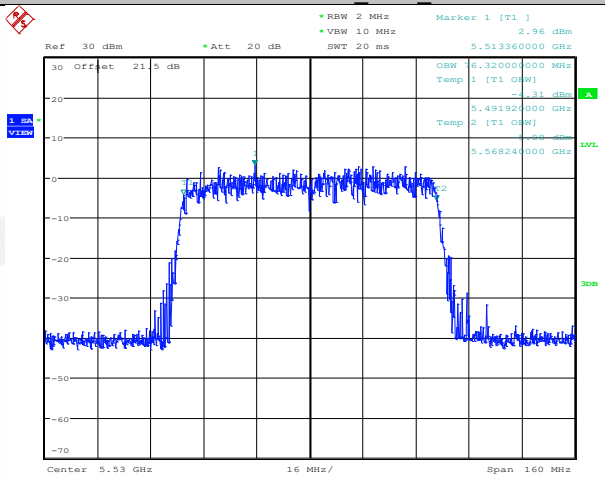

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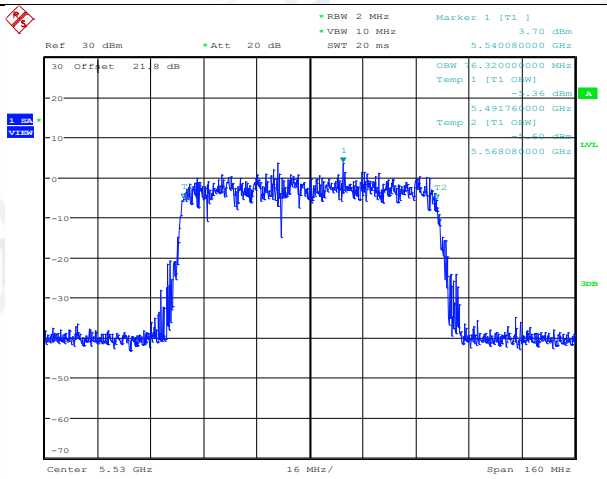

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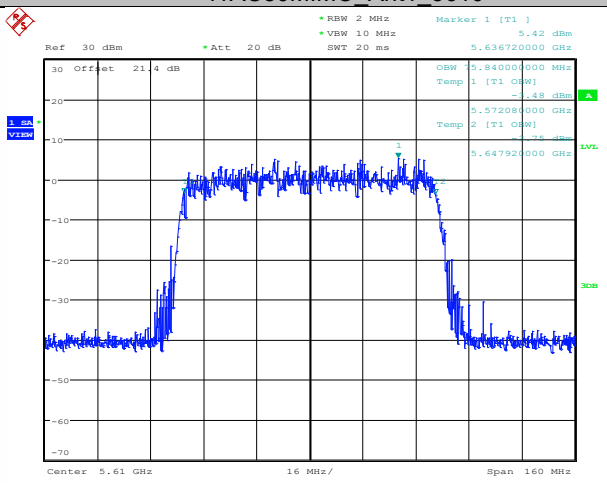

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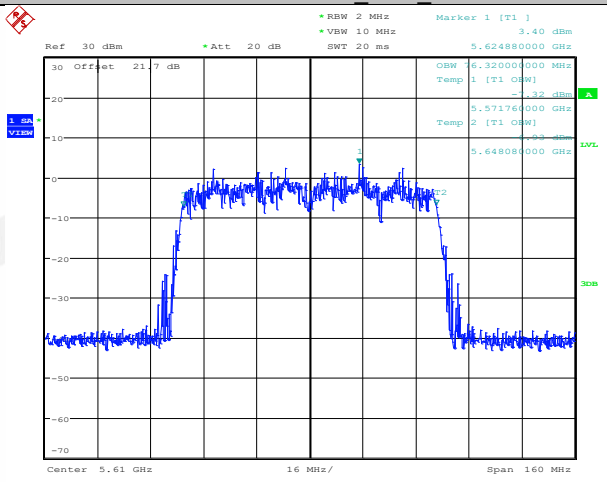

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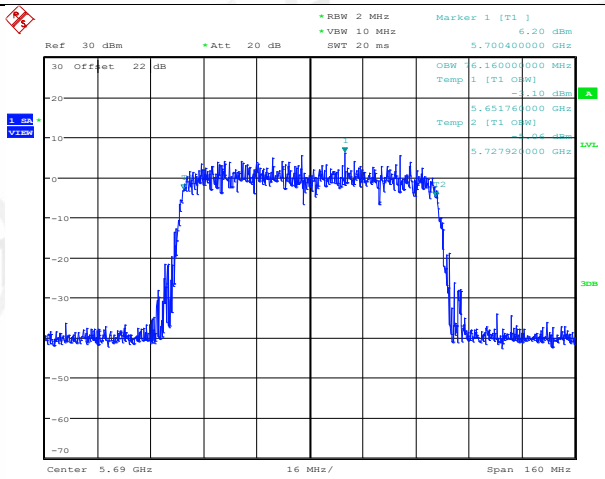

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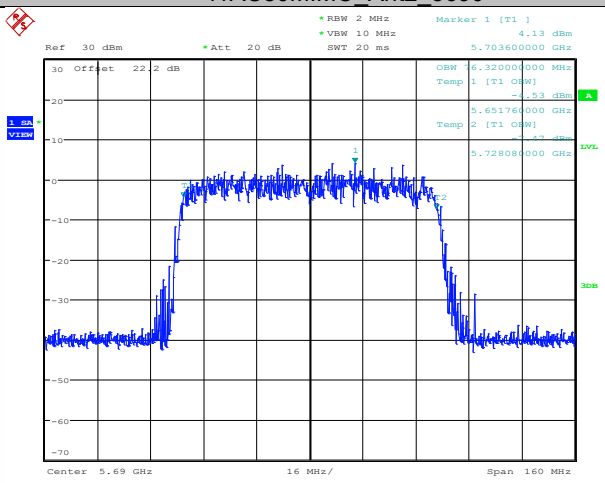

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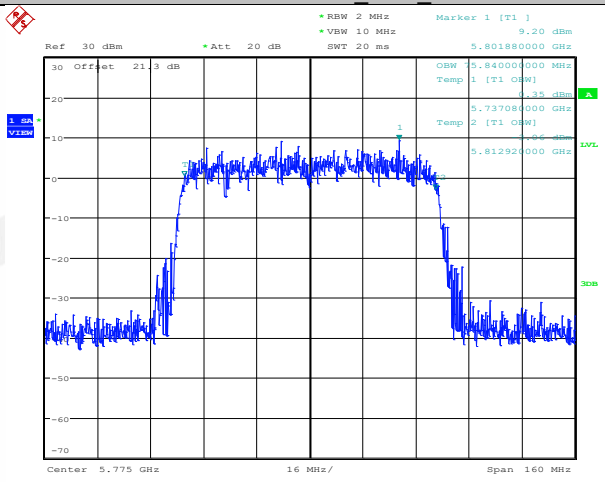

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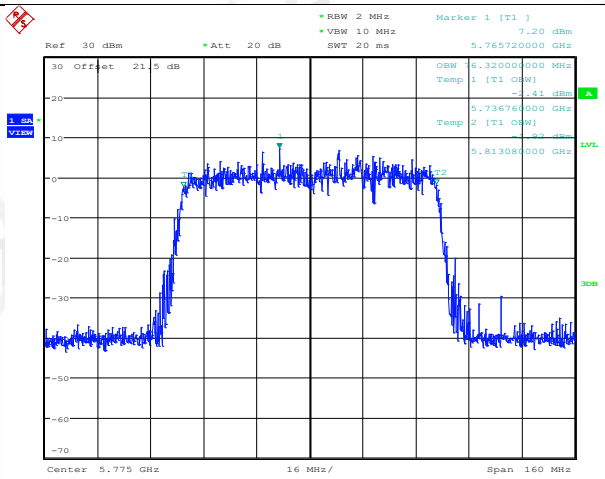

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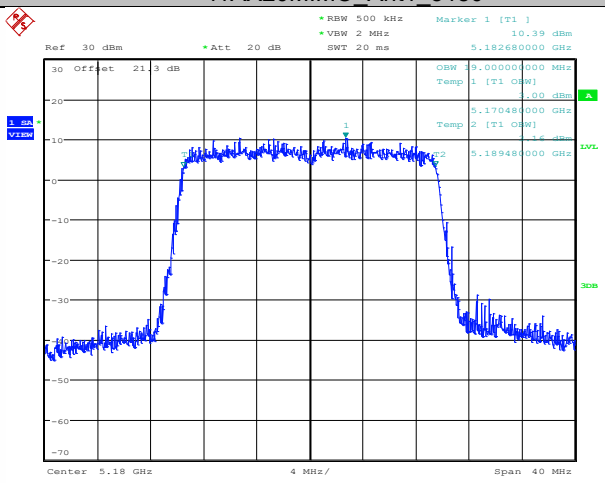

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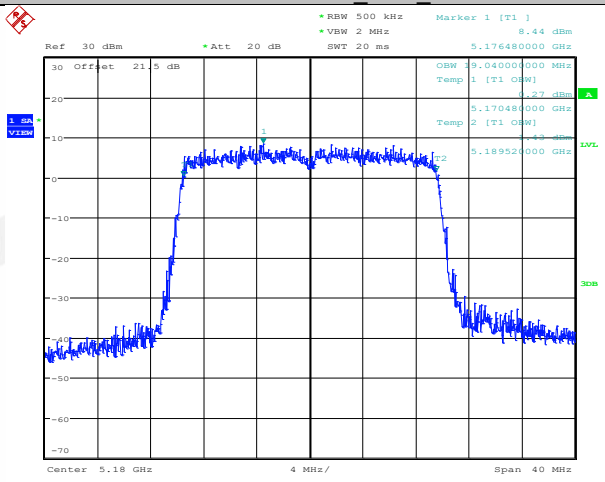

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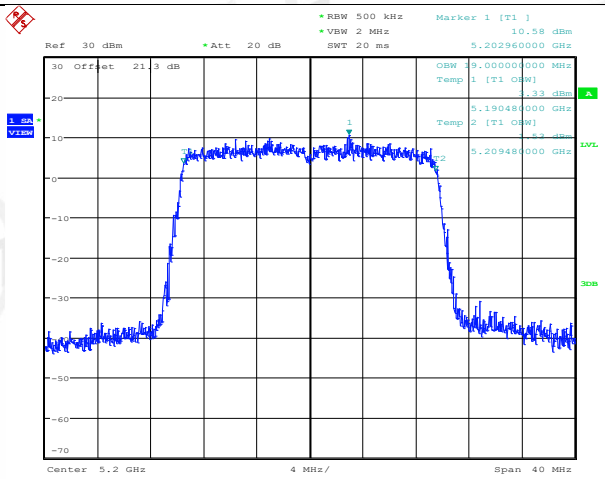

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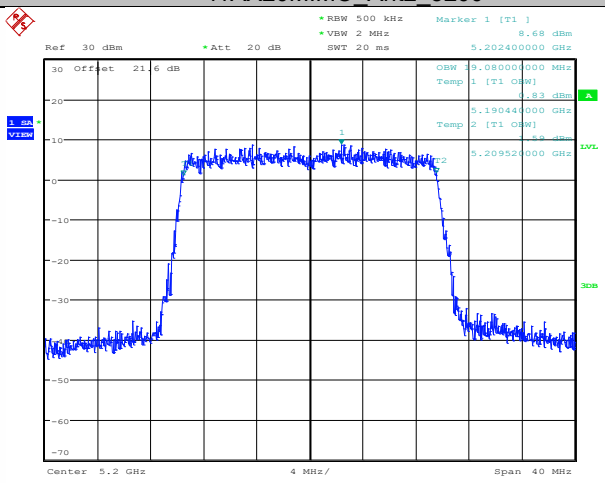

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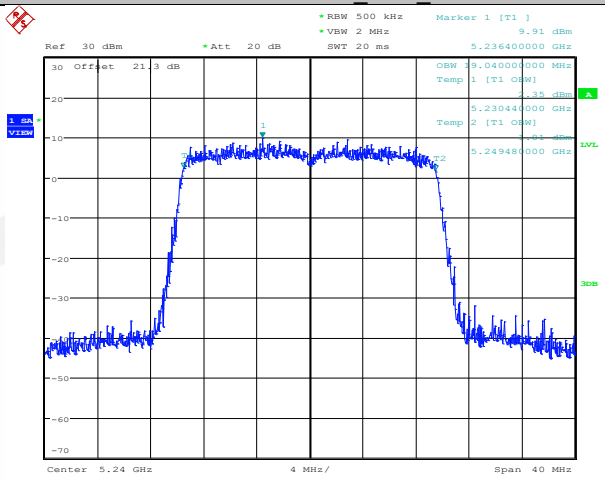

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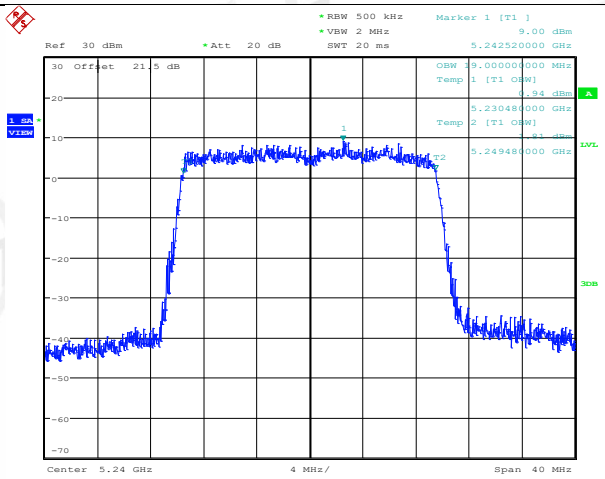

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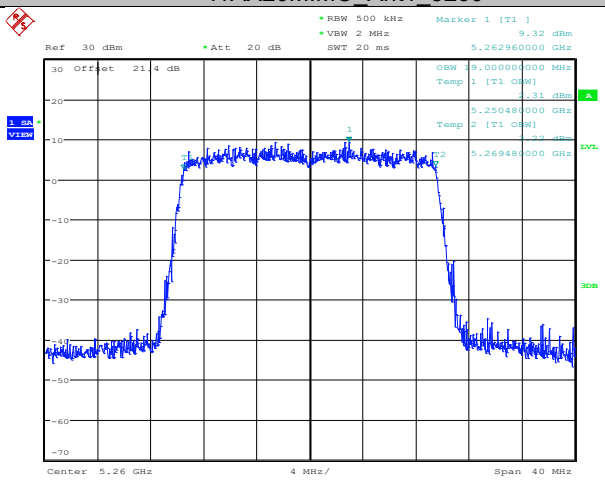

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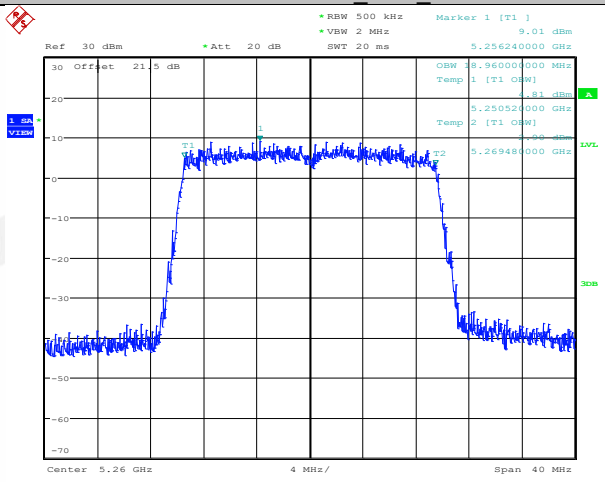

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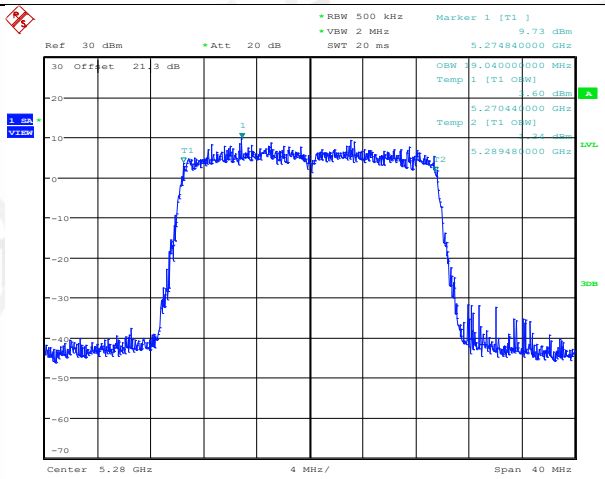

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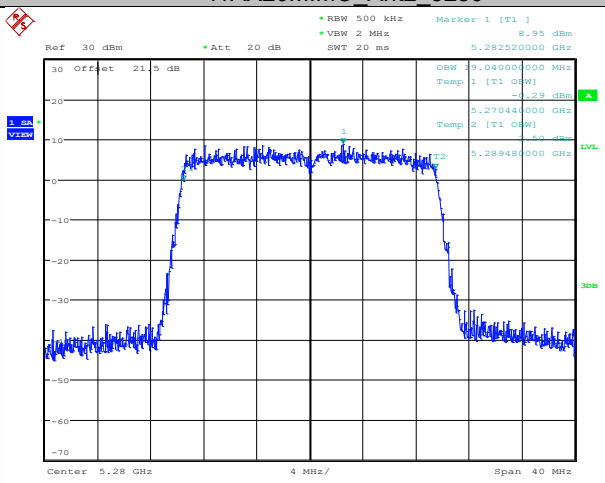

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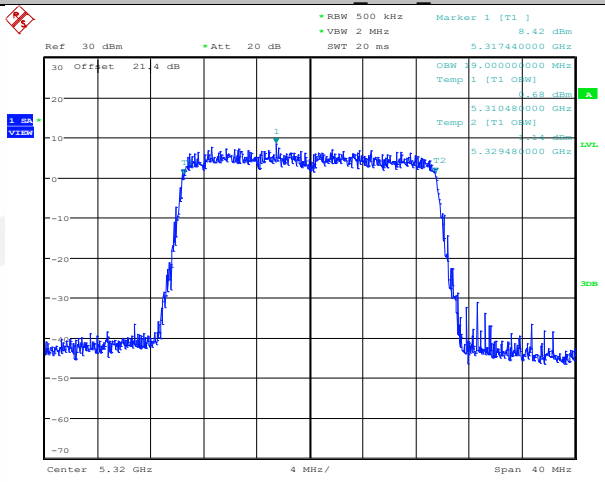

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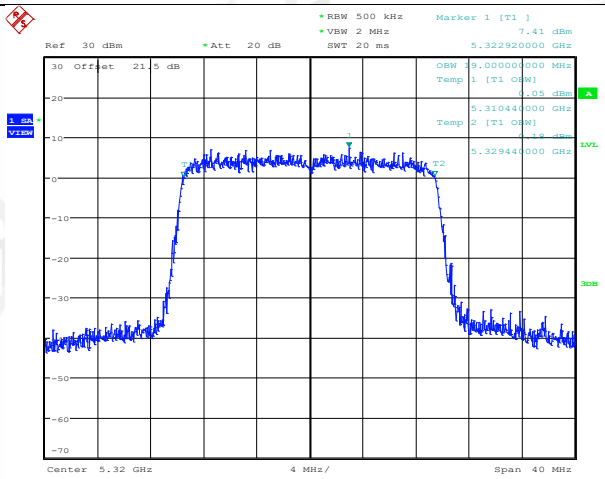

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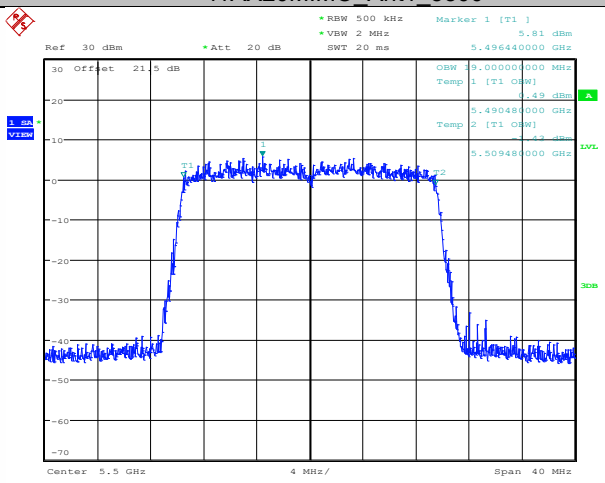

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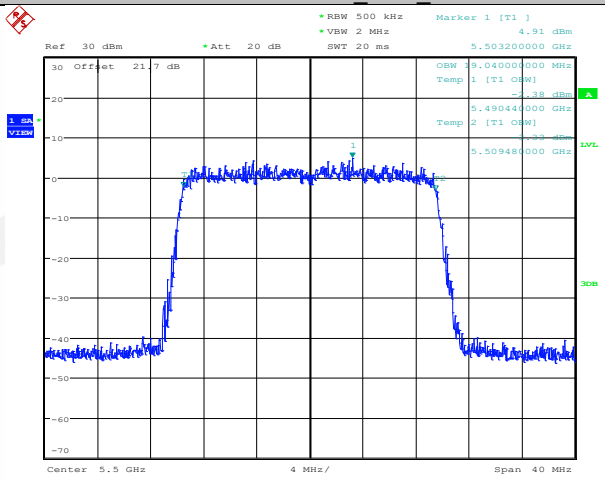

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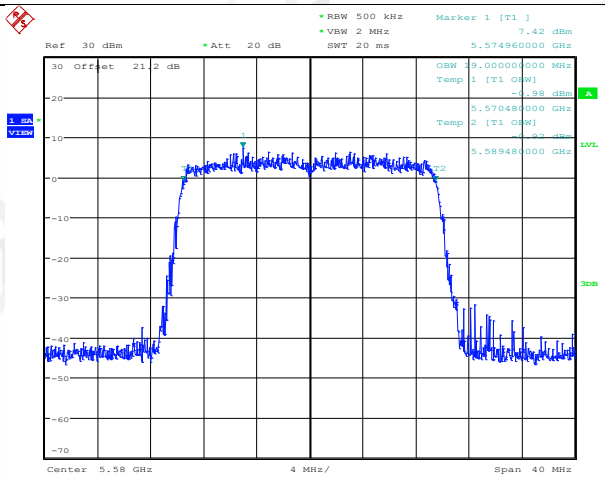

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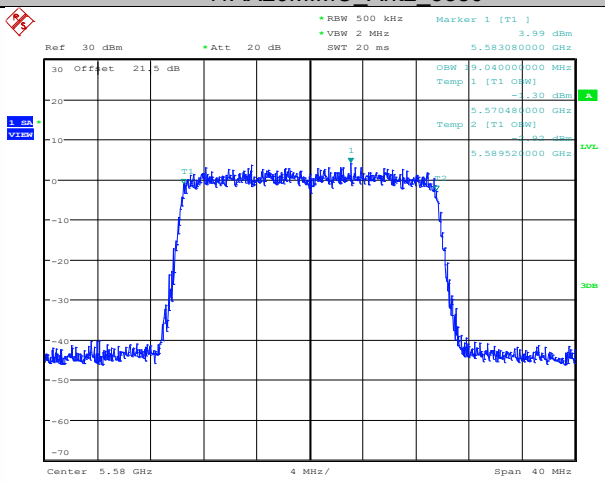

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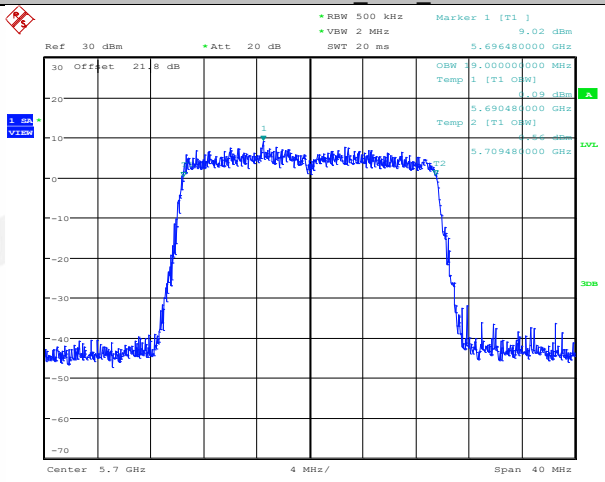

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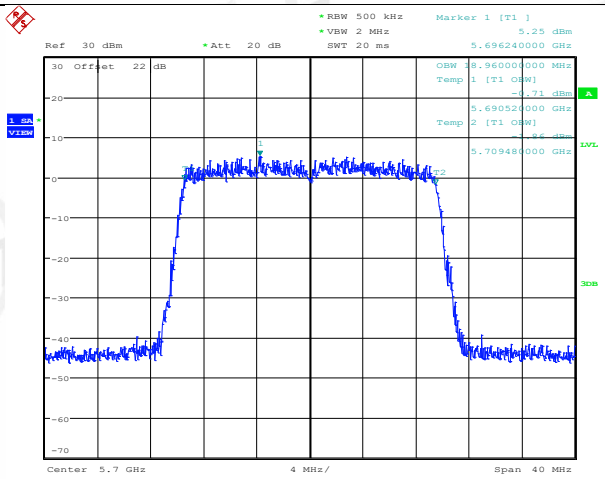

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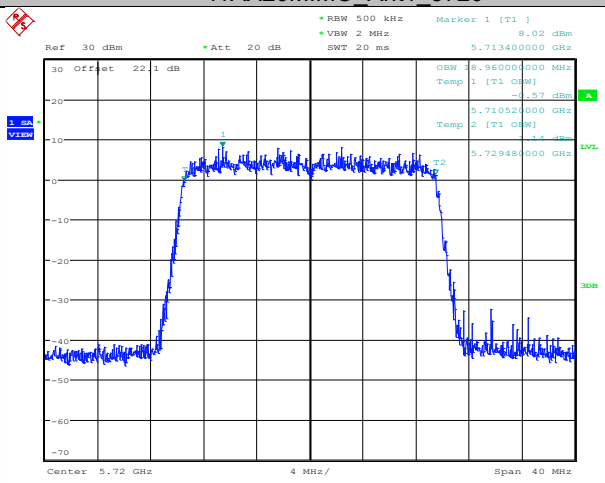

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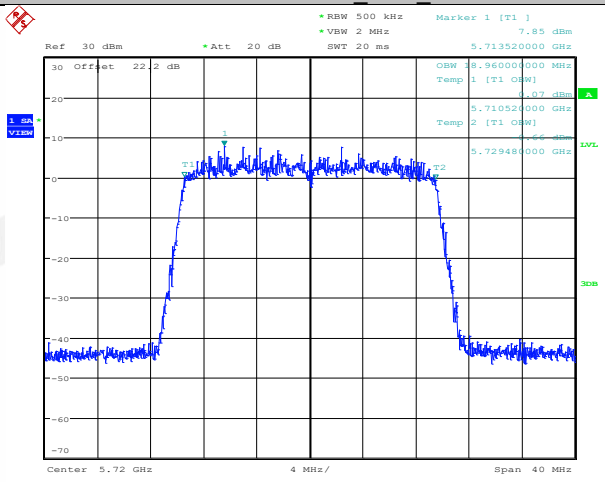

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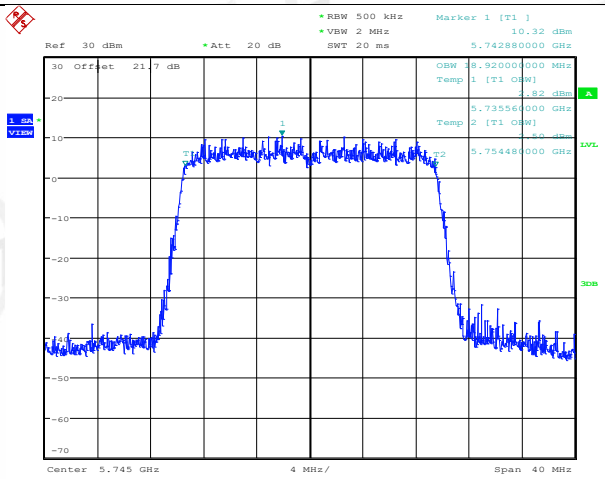

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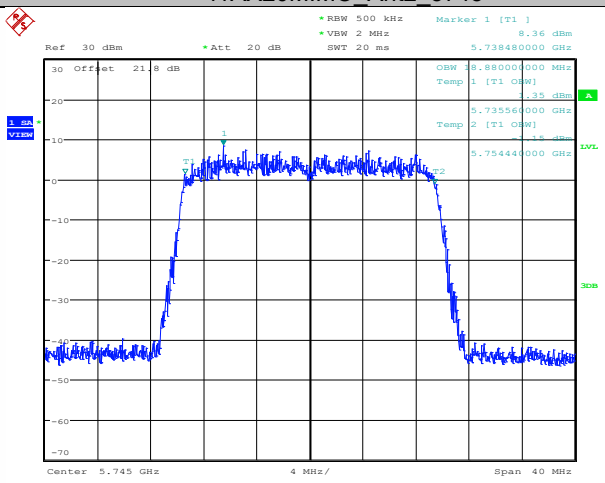

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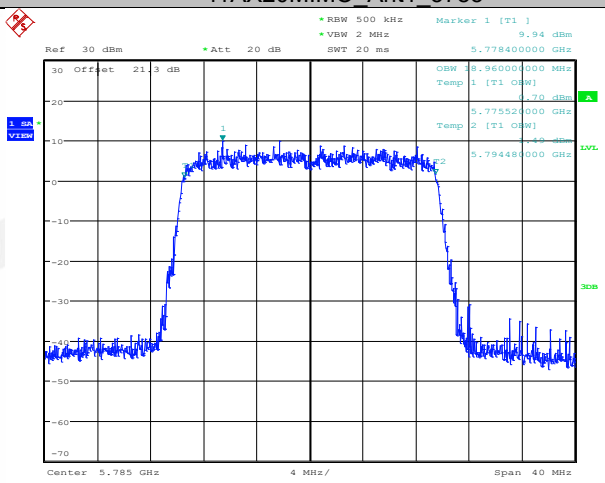

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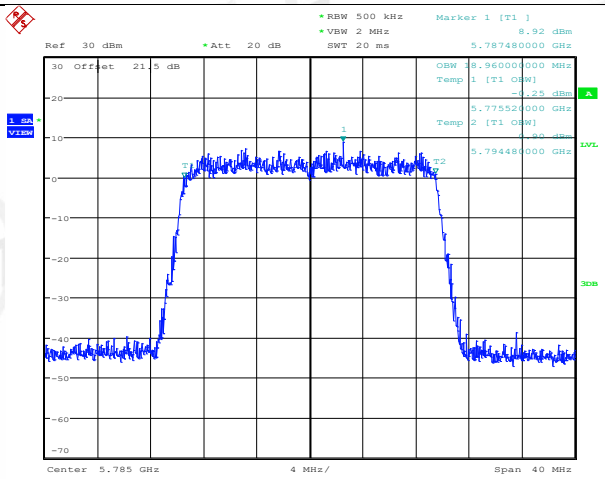

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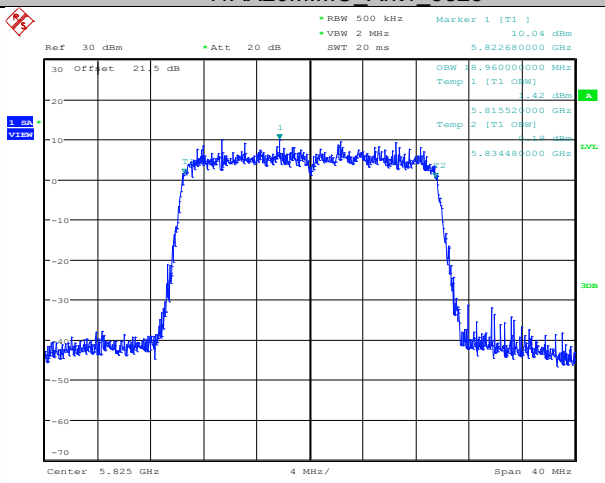

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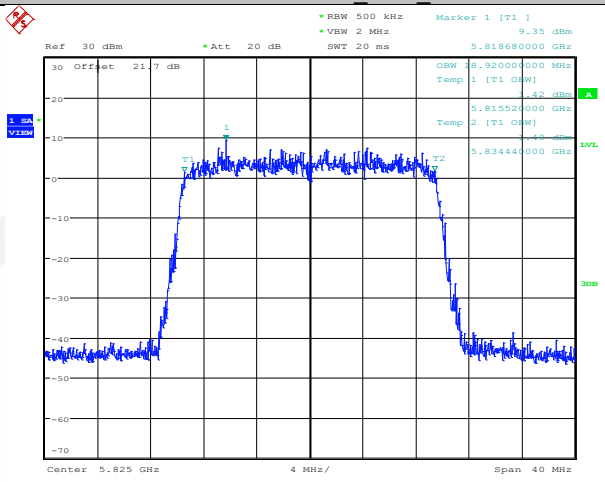

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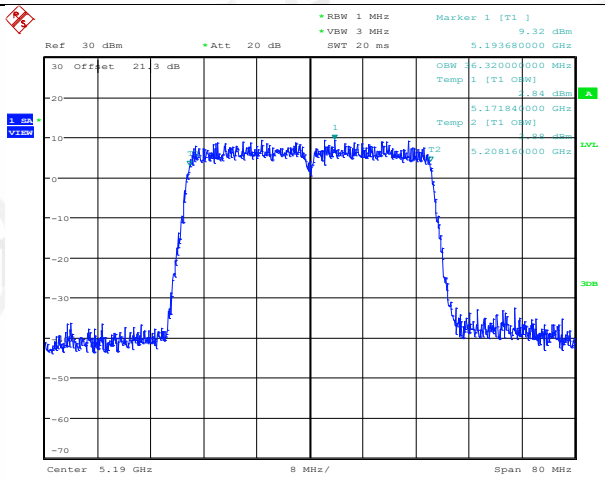

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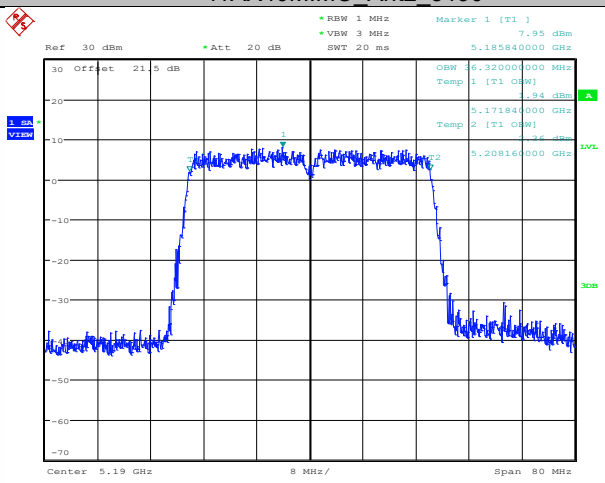

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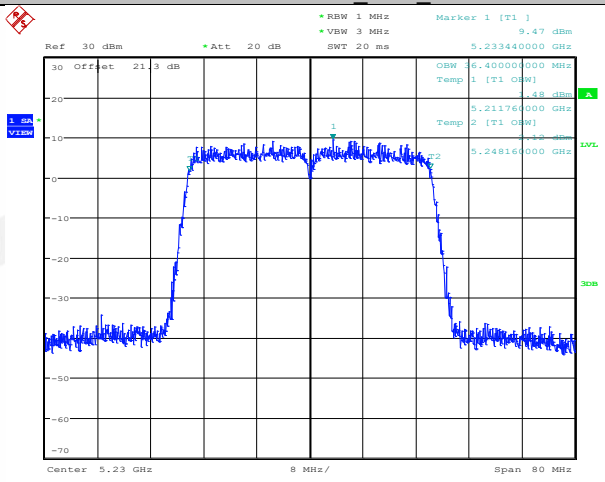

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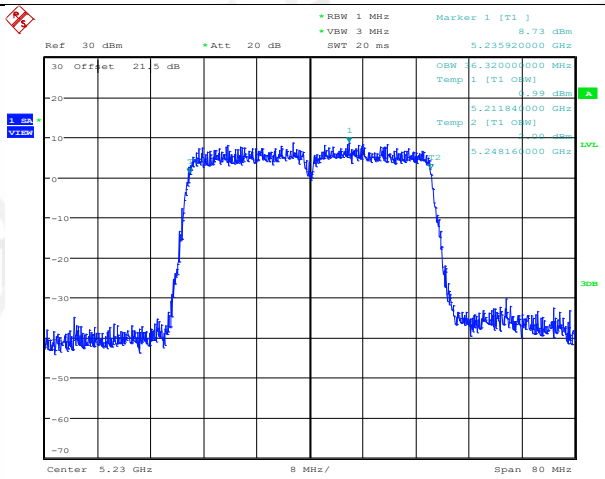

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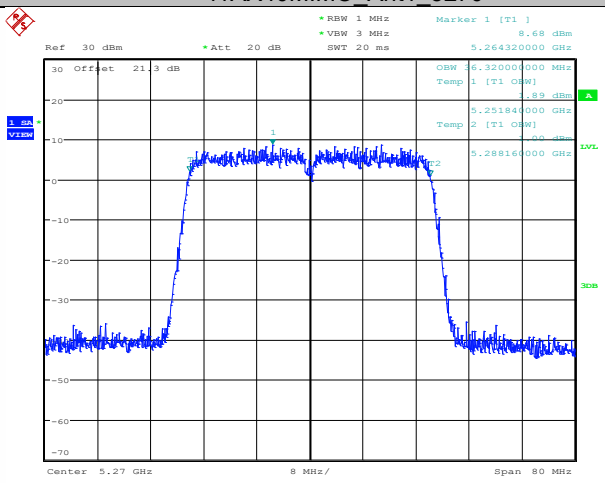

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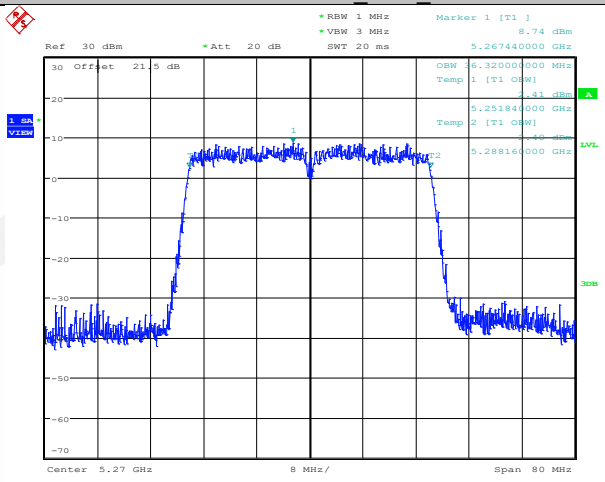

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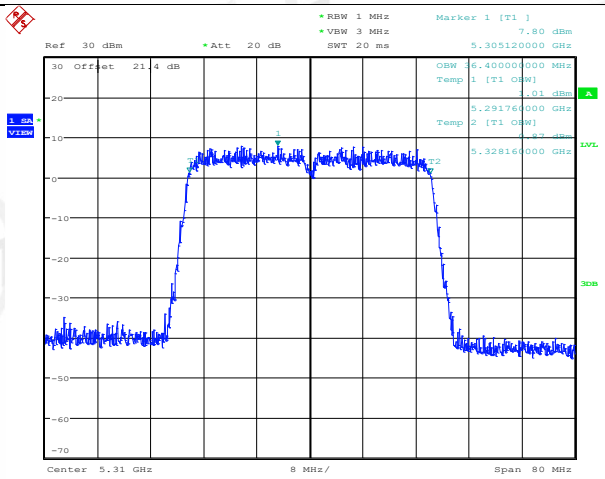

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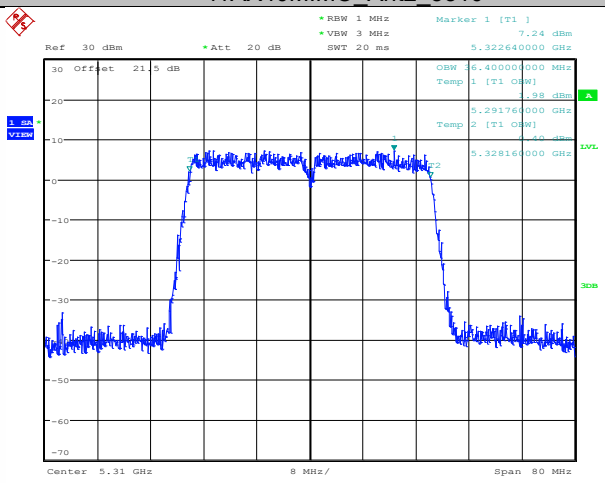

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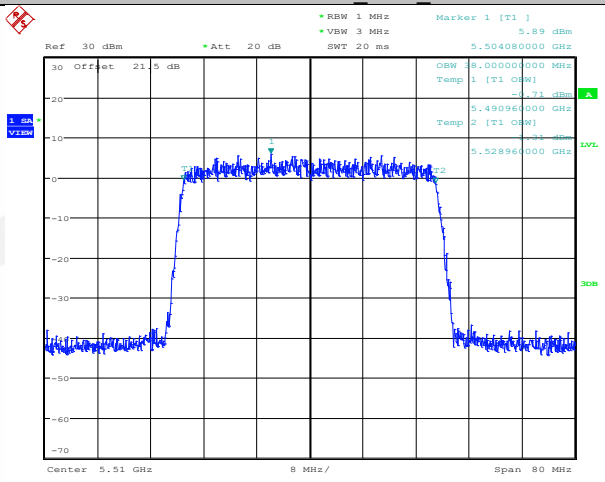
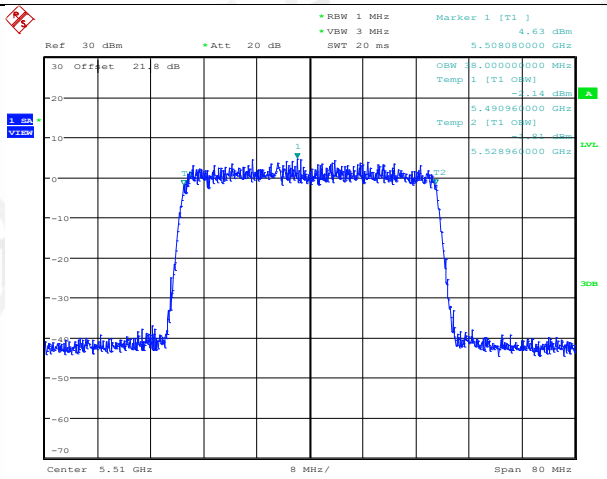
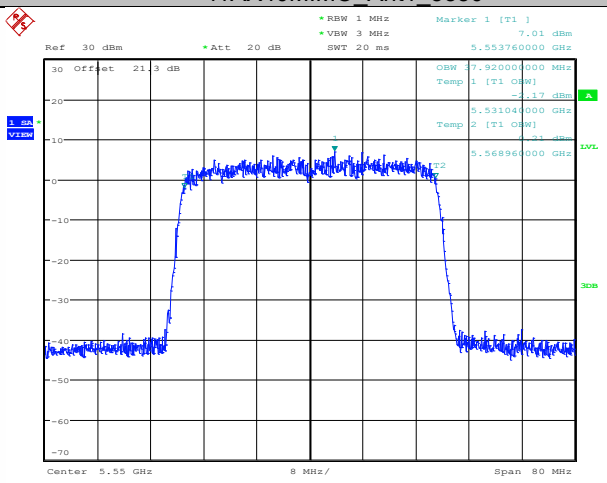


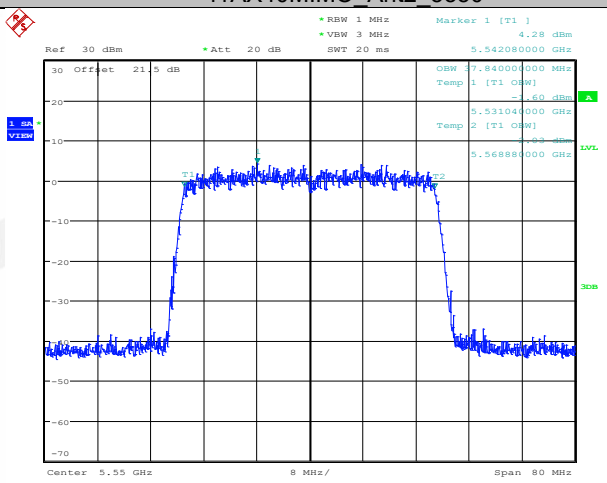
11AX40MIMO_Ant2_5510



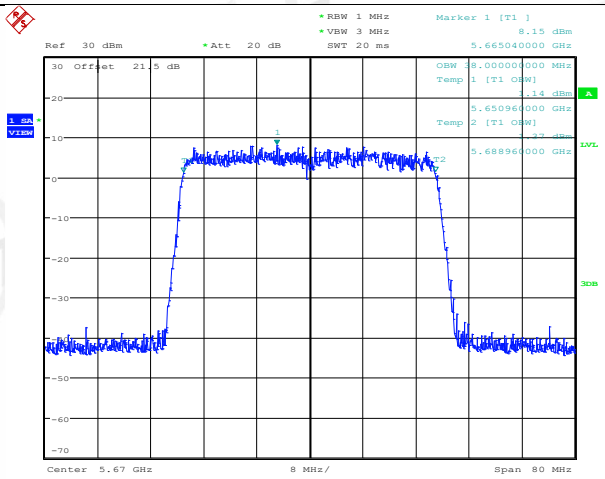
11AX40MIMO_Ant1_5550



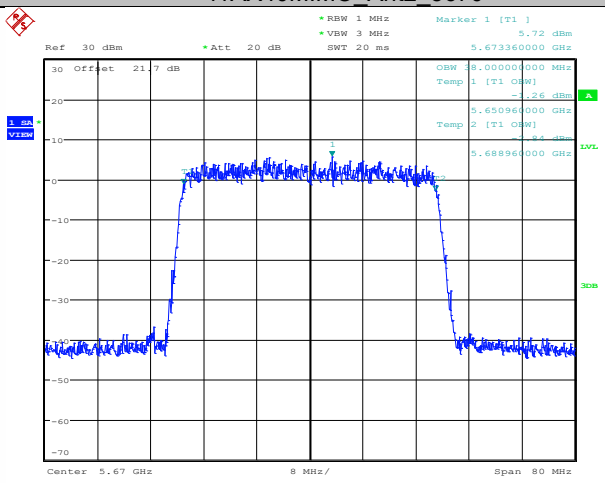
11AX40MIMO_Ant2_5550



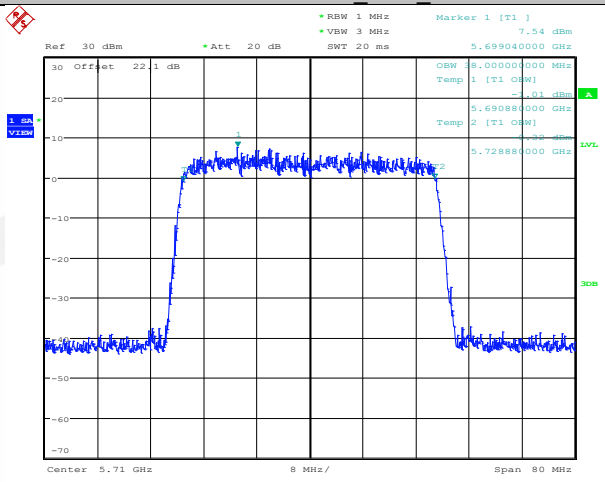
11AX40MIMO_Ant1_5670



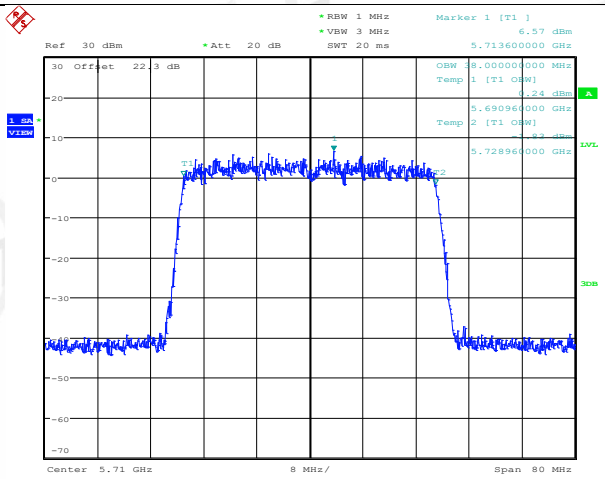
11AX40MIMO_Ant2_5670



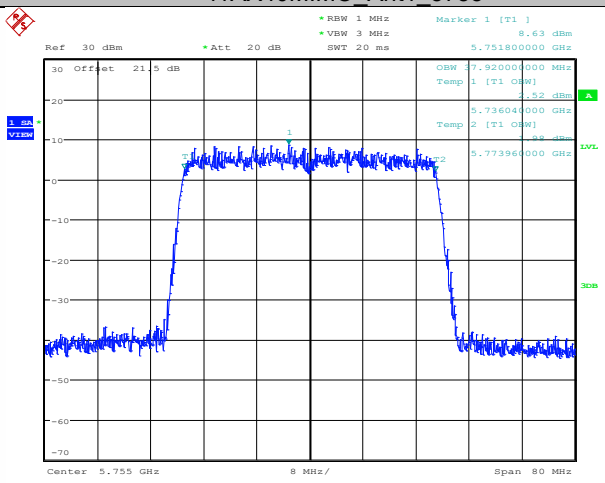
11AX40MIMO_Ant1_5710



11AX40MIMO_Ant2_5710



11AX40MIMO_Ant1_5755



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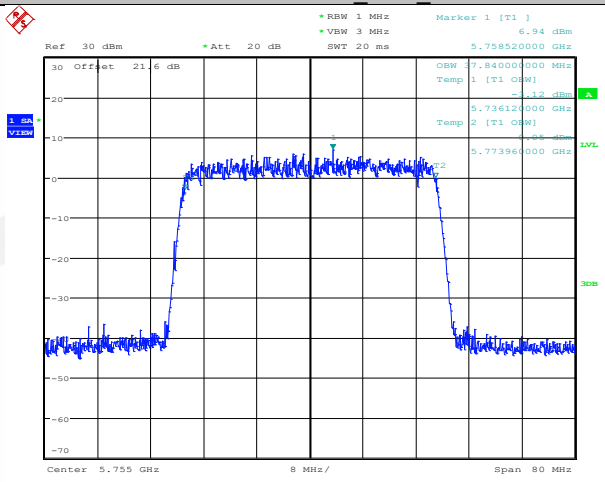
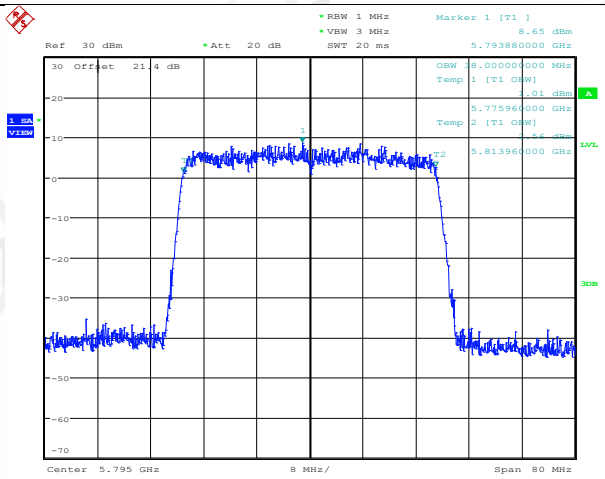
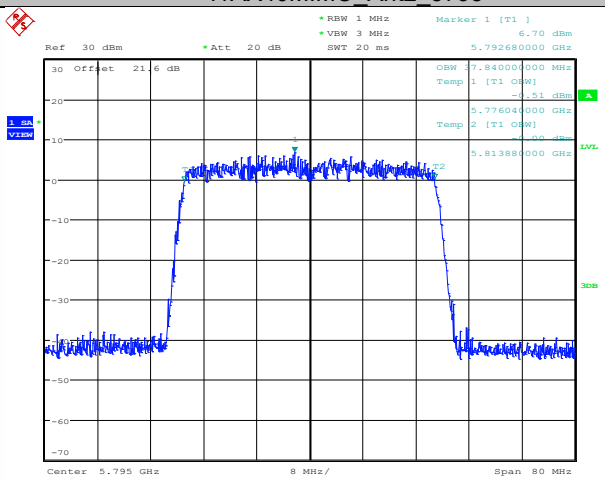


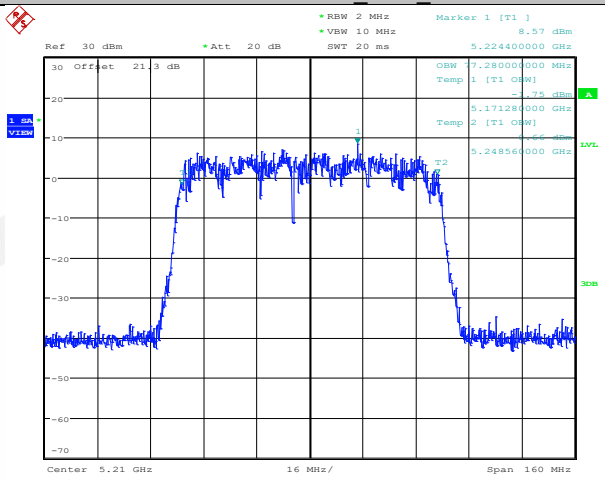
11AX40MIMO_Ant1_5795



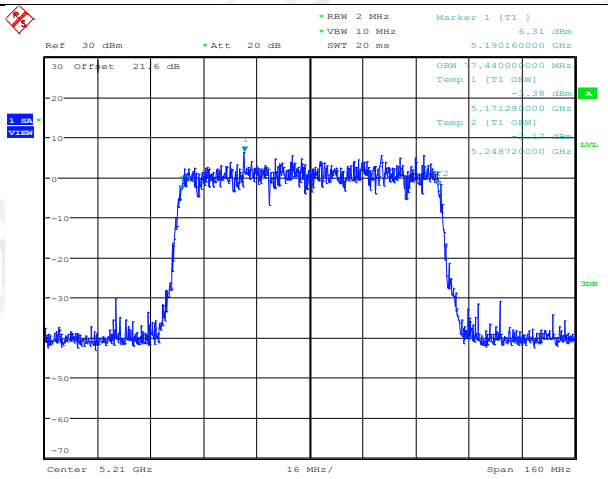
11AX40MIMO_Ant2_5795



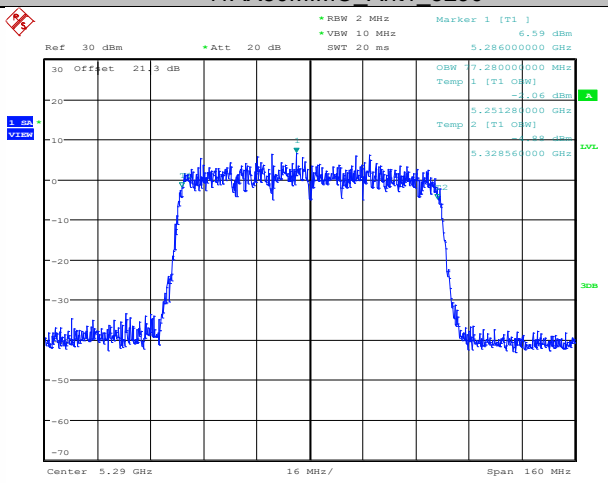
11AX80MIMO_Ant1_5210



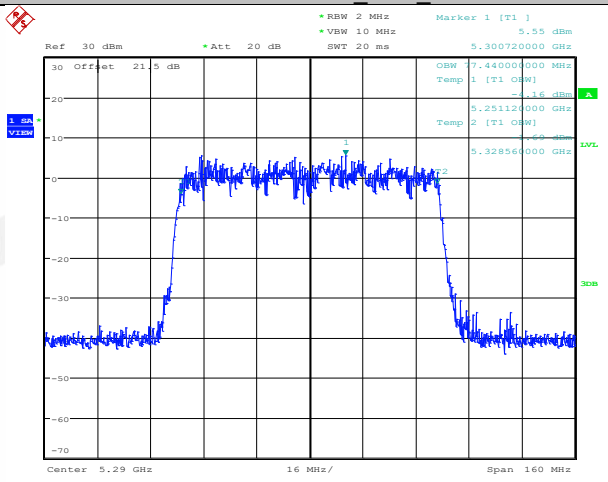
11AX80MIMO_Ant2_5210



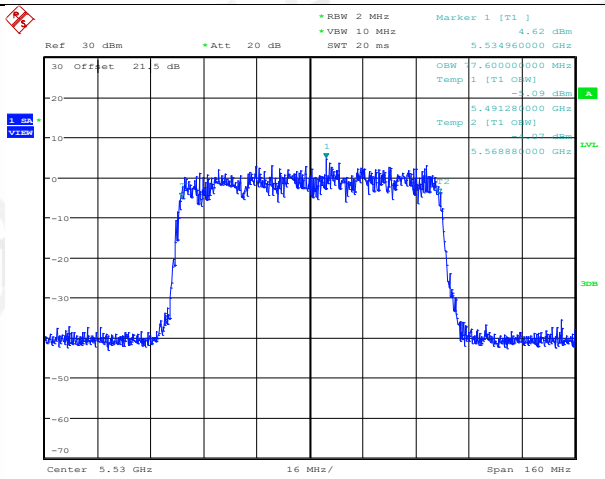
11AX80MIMO_Ant1_5290



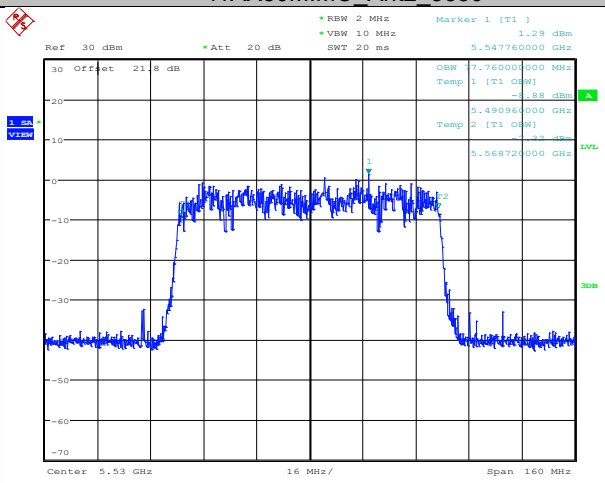
11AX80MIMO_Ant2_5290



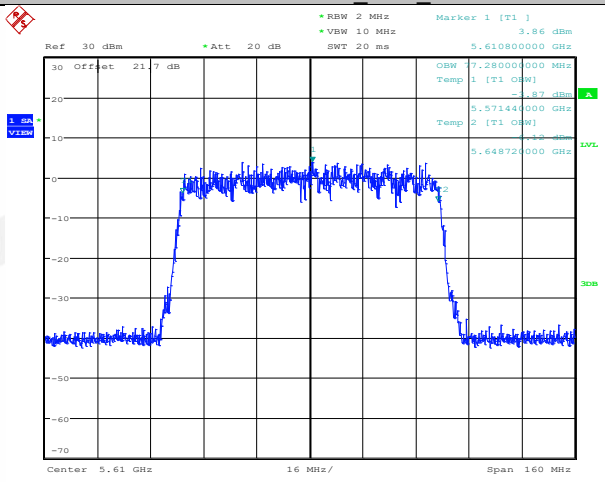
11AX80MIMO_Ant1_5530



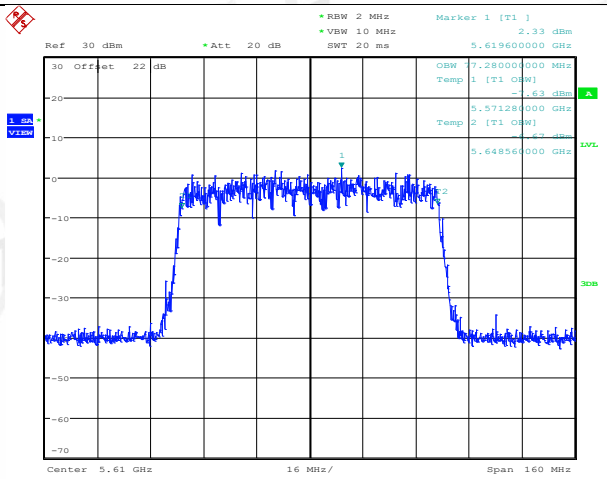
11AX80MIMO_Ant2_5530



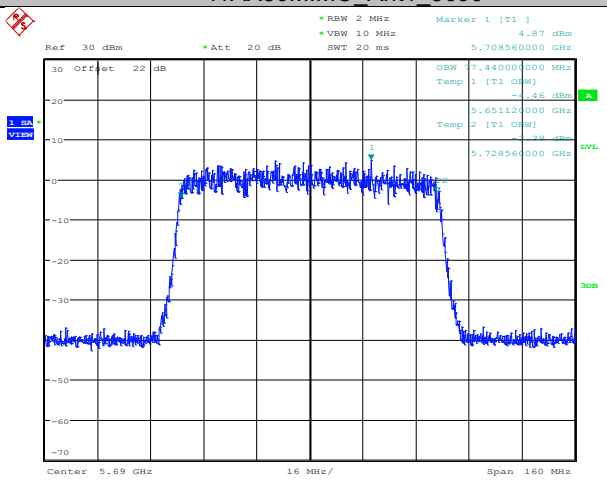
11AX80MIMO_Ant1_5610



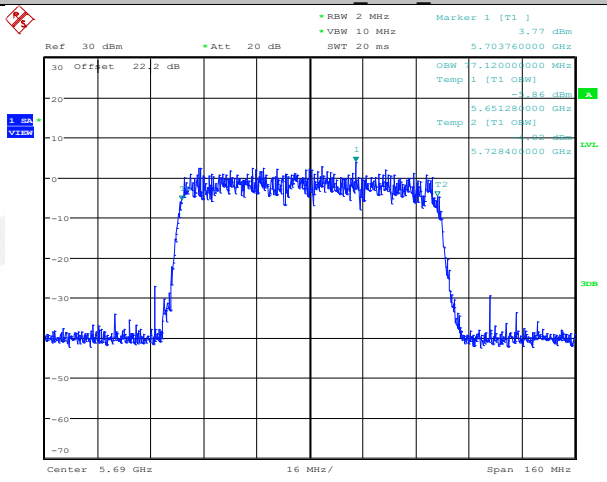
11AX80MIMO_Ant2_5610



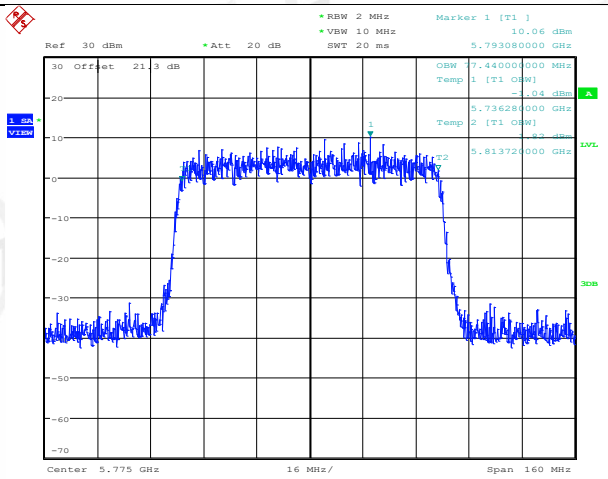
11AX80MIMO_Ant1_5690



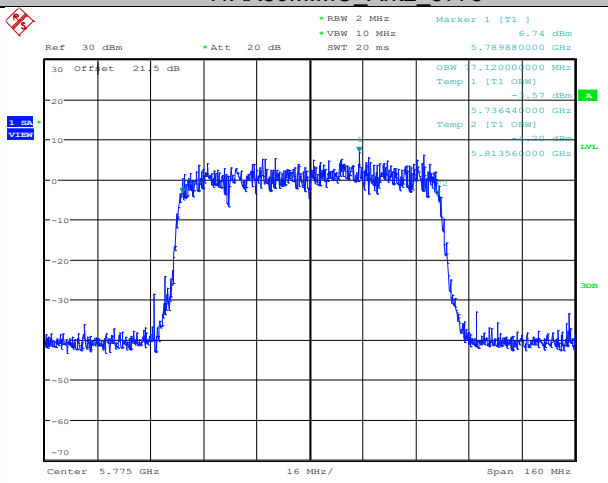
11AX80MIMO_Ant2_5690



11AX80MIMO_Ant1_5775

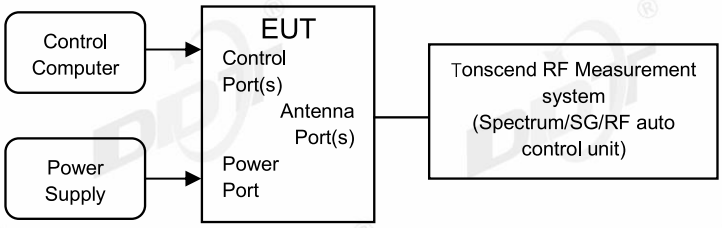


11AX80MIMO_Ant2_5775



7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. 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

7.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 1#
Ambient Condition:	25.8℃,55.9%RH	Test Date:	2024.06.12-2024.08.18
Test Power Supply:	AC120V/60Hz	Sample Number:	S24051516-001

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.37	3.89	35.22
	Ant2	5180	1.37	3.88	35.31
	Ant1	5200	1.37	3.89	35.22
	Ant2	5200	1.37	3.89	35.22
	Ant1	5240	1.37	3.88	35.31
	Ant2	5240	1.37	3.89	35.22
	Ant1	5260	1.36	3.88	35.05
	Ant2	5260	1.36	3.88	35.05
	Ant1	5280	1.37	3.88	35.31
	Ant2	5280	1.36	3.88	35.05
	Ant1	5320	1.36	3.87	35.14
	Ant2	5320	1.37	3.88	35.31
	Ant1	5500	1.37	3.89	35.22
	Ant2	5500	1.36	3.88	35.05
	Ant1	5580	1.37	3.88	35.31
	Ant2	5580	1.36	3.87	35.14
	Ant1	5700	1.36	3.87	35.14
	Ant2	5700	1.36	3.87	35.14
	Ant1	5720	1.37	3.89	35.22
	Ant2	5720	1.36	3.87	35.14
	Ant1	5745	1.36	3.87	35.14
	Ant2	5745	1.37	3.88	35.31
	Ant1	5785	1.36	3.87	35.14
	Ant2	5785	1.37	3.89	35.22
	Ant1	5825	1.37	3.89	35.22
	Ant2	5825	1.37	3.89	35.22
11N20MIMO	Ant1	5180	1.15	3.66	31.42
	Ant2	5180	1.15	3.66	31.42
	Ant1	5200	1.15	3.67	31.34
	Ant2	5200	1.15	3.66	31.42
	Ant1	5240	1.16	3.68	31.52
	Ant2	5240	1.15	3.67	31.34
	Ant1	5260	1.15	3.66	31.42
	Ant2	5260	1.15	3.66	31.42
	Ant1	5280	1.15	3.67	31.34
	Ant2	5280	1.16	3.68	31.52
	Ant1	5320	1.15	3.67	31.34
	Ant2	5320	1.15	3.67	31.34
	Ant1	5500	1.15	3.66	31.42
	Ant2	5500	1.15	3.66	31.42
	Ant1	5580	1.15	3.67	31.34
	Ant2	5580	1.15	3.67	31.34
	Ant1	5700	1.15	3.67	31.34
	Ant2	5700	1.15	3.67	31.34
	Ant1	5720	1.15	3.67	31.34
	Ant2	5720	1.15	3.67	31.34
	Ant1	5745	1.15	3.67	31.34
	Ant2	5745	1.16	3.68	31.52
	Ant1	5785	1.15	3.67	31.34
	Ant2	5785	1.15	3.67	31.34
	Ant1	5825	1.15	3.67	31.34
	Ant2	5825	1.15	3.67	31.34
11N40MIMO	Ant1	5190	0.58	3.10	18.71
	Ant2	5190	0.57	3.09	18.45
	Ant1	5230	0.58	3.10	18.71

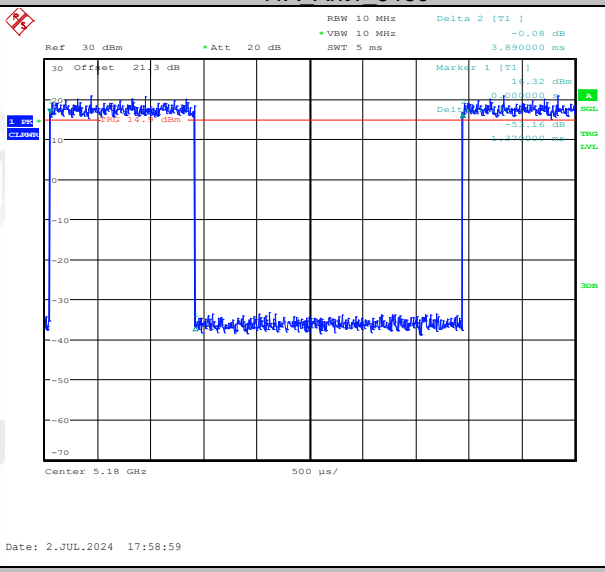
	Ant2	5230	0.58	3.10	18.71
	Ant1	5270	0.57	3.09	18.45
	Ant2	5270	0.57	3.09	18.45
	Ant1	5310	0.57	3.09	18.45
	Ant2	5310	0.57	3.09	18.45
	Ant1	5510	0.57	3.09	18.45
	Ant2	5510	0.57	3.09	18.45
	Ant1	5550	0.58	3.10	18.71
	Ant2	5550	0.58	3.10	18.71
	Ant1	5670	0.57	3.08	18.51
	Ant2	5670	0.57	3.08	18.51
	Ant1	5710	0.57	3.09	18.45
	Ant2	5710	0.57	3.09	18.45
	Ant1	5755	0.57	3.09	18.45
	Ant2	5755	0.58	3.09	18.77
	Ant1	5795	0.58	3.09	18.77
	Ant2	5795	0.57	3.08	18.51
11AC20MIMO	Ant1	5180	1.16	3.68	31.52
	Ant2	5180	1.16	3.68	31.52
	Ant1	5200	1.16	3.68	31.52
	Ant2	5200	1.16	3.68	31.52
	Ant1	5240	1.16	3.68	31.52
	Ant2	5240	1.16	3.68	31.52
	Ant1	5260	1.16	3.68	31.52
	Ant2	5260	1.16	3.67	31.61
	Ant1	5280	1.16	3.67	31.61
	Ant2	5280	1.15	3.66	31.42
	Ant1	5320	1.15	3.66	31.42
	Ant2	5320	1.16	3.67	31.61
	Ant1	5500	1.16	3.67	31.61
	Ant2	5500	1.16	3.67	31.61
	Ant1	5580	1.16	3.68	31.52
	Ant2	5580	1.16	3.68	31.52
	Ant1	5700	1.15	3.66	31.42
	Ant2	5700	1.15	3.67	31.34
	Ant1	5720	1.16	3.68	31.52
	Ant2	5720	1.16	3.67	31.61
	Ant1	5745	1.16	3.67	31.61
	Ant2	5745	1.16	3.68	31.52
	Ant1	5785	1.15	3.66	31.42
	Ant2	5785	1.16	3.68	31.52
	Ant1	5825	1.16	3.67	31.61
	Ant2	5825	1.16	3.67	31.61
11AC40MIMO	Ant1	5190	0.57	3.09	18.45
	Ant2	5190	0.57	3.09	18.45
	Ant1	5230	0.57	3.09	18.45
	Ant2	5230	0.58	3.10	18.71
	Ant1	5270	0.57	3.09	18.45
	Ant2	5270	0.57	3.08	18.51
	Ant1	5310	0.57	3.09	18.45
	Ant2	5310	0.57	3.09	18.45
	Ant1	5510	0.58	3.10	18.71
	Ant2	5510	0.58	3.10	18.71
	Ant1	5550	0.58	3.10	18.71
	Ant2	5550	0.57	3.09	18.45
	Ant1	5670	0.57	3.09	18.45
	Ant2	5670	0.57	3.09	18.45
	Ant1	5710	0.57	3.09	18.45
	Ant2	5710	0.57	3.08	18.51
	Ant1	5755	0.57	3.09	18.45
	Ant2	5755	0.58	3.09	18.77
	Ant1	5795	0.57	3.09	18.45
	Ant2	5795	0.57	3.09	18.45
11AC80MIMO	Ant1	5210	0.29	2.81	10.32

	Ant2	5210	0.29	2.81	10.32
	Ant1	5290	0.29	2.81	10.32
	Ant2	5290	0.29	2.81	10.32
	Ant1	5530	0.29	2.81	10.32
	Ant2	5530	0.29	2.80	10.36
	Ant1	5610	0.28	2.80	10.00
	Ant2	5610	0.29	2.81	10.32
	Ant1	5690	0.29	2.81	10.32
	Ant2	5690	0.29	2.81	10.32
	Ant1	5775	0.29	2.80	10.36
	Ant2	5775	0.29	2.81	10.32
11AX20MIMO	Ant1	5180	0.99	3.51	28.21
	Ant2	5180	0.99	3.51	28.21
	Ant1	5200	0.99	3.51	28.21
	Ant2	5200	0.99	3.51	28.21
	Ant1	5240	0.99	3.51	28.21
	Ant2	5240	0.99	3.50	28.29
	Ant1	5260	0.99	3.51	28.21
	Ant2	5260	1.00	3.52	28.41
	Ant1	5280	0.99	3.51	28.21
	Ant2	5280	0.99	3.51	28.21
	Ant1	5320	0.99	3.51	28.21
	Ant2	5320	0.99	3.51	28.21
	Ant1	5500	0.99	3.51	28.21
	Ant2	5500	0.99	3.51	28.21
	Ant1	5580	0.99	3.51	28.21
	Ant2	5580	0.98	3.50	28.00
	Ant1	5700	0.99	3.51	28.21
	Ant2	5700	0.99	3.51	28.21
	Ant1	5720	0.99	3.51	28.21
	Ant2	5720	0.99	3.50	28.29
	Ant1	5745	0.99	3.50	28.29
	Ant2	5745	0.99	3.50	28.29
	Ant1	5785	1.00	3.51	28.49
	Ant2	5785	0.99	3.51	28.21
	Ant1	5825	0.99	3.51	28.21
	Ant2	5825	1.00	3.52	28.41
11AX40MIMO	Ant1	5190	0.58	3.10	18.71
	Ant2	5190	0.58	3.10	18.71
	Ant1	5230	0.58	3.10	18.71
	Ant2	5230	0.57	3.09	18.45
	Ant1	5270	0.58	3.10	18.71
	Ant2	5270	0.58	3.09	18.77
	Ant1	5310	0.58	3.10	18.71
	Ant2	5310	0.58	3.10	18.71
	Ant1	5510	0.52	3.03	17.16
	Ant2	5510	0.53	3.05	17.38
	Ant1	5550	0.53	3.04	17.43
	Ant2	5550	0.52	3.04	17.11
	Ant1	5670	0.53	3.05	17.38
	Ant2	5670	0.53	3.05	17.38
	Ant1	5710	0.52	3.03	17.16
	Ant2	5710	0.52	3.04	17.11
	Ant1	5755	0.52	3.03	17.16
	Ant2	5755	0.52	3.03	17.16
	Ant1	5795	0.53	3.04	17.43
	Ant2	5795	0.52	3.03	17.16
11AX80MIMO	Ant1	5210	0.28	2.80	10.00
	Ant2	5210	0.28	2.80	10.00
	Ant1	5290	0.28	2.80	10.00
	Ant2	5290	0.28	2.80	10.00
	Ant1	5530	0.28	2.80	10.00
	Ant2	5530	0.28	2.80	10.00
	Ant1	5610	0.28	2.80	10.00

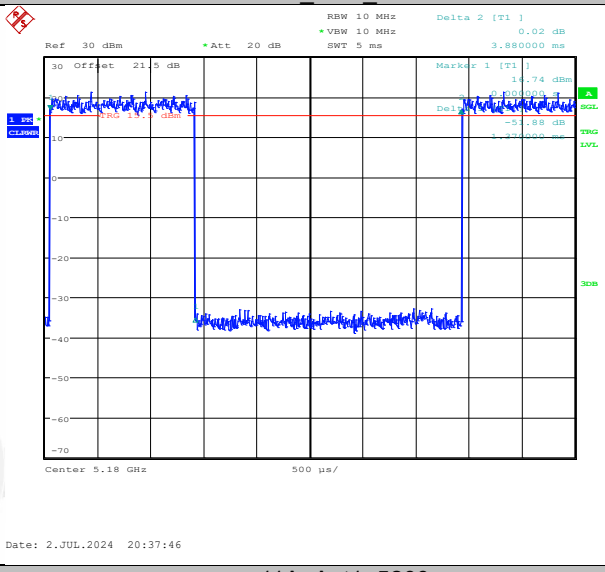
	Ant2	5610	0.28	2.80	10.00
	Ant1	5690	0.28	2.79	10.04
	Ant2	5690	0.28	2.80	10.00
	Ant1	5775	0.29	2.80	10.36
	Ant2	5775	0.28	2.80	10.00

7.5. Test graphs

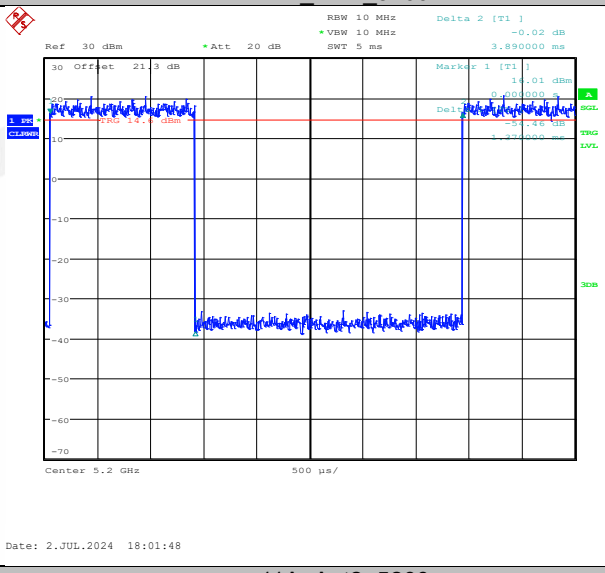
11A_Ant1_5180



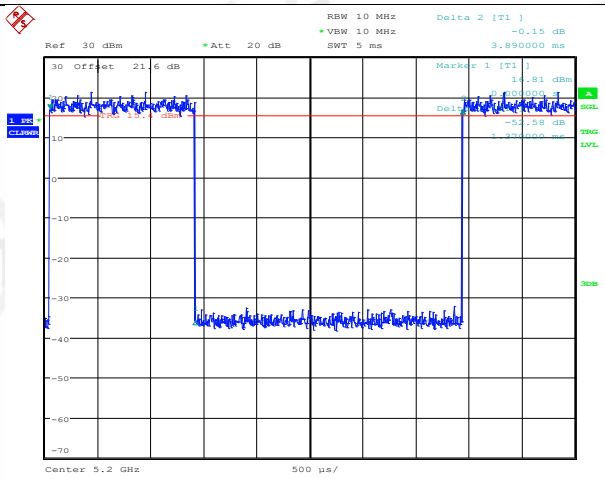
11A_Ant2_5180



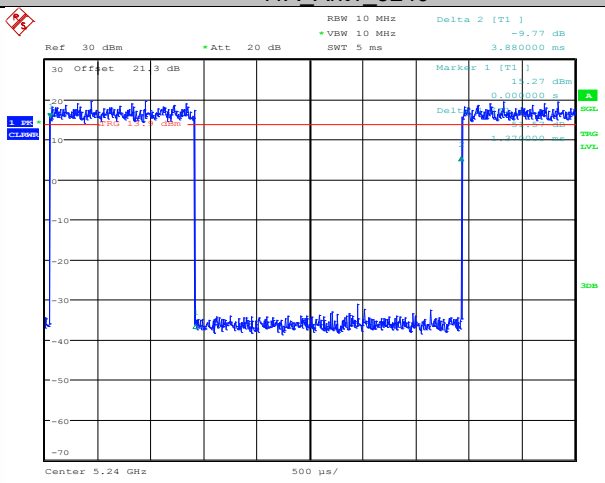
11A_Ant1_5200



11A_Ant2_5200



11A_Ant1_5240



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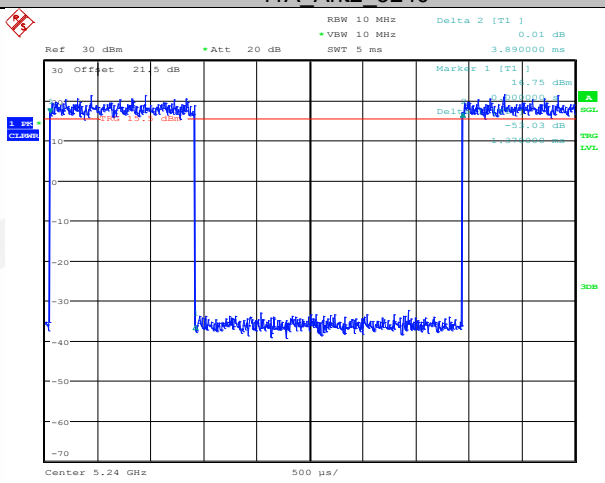

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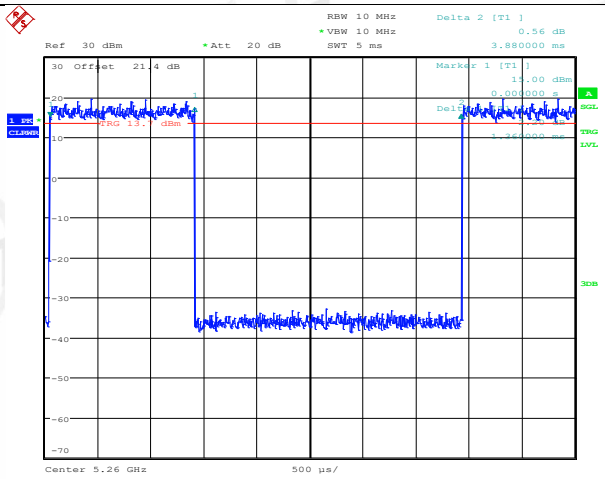

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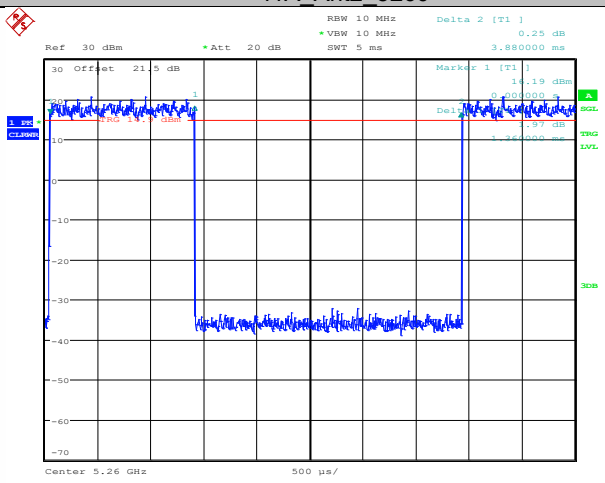

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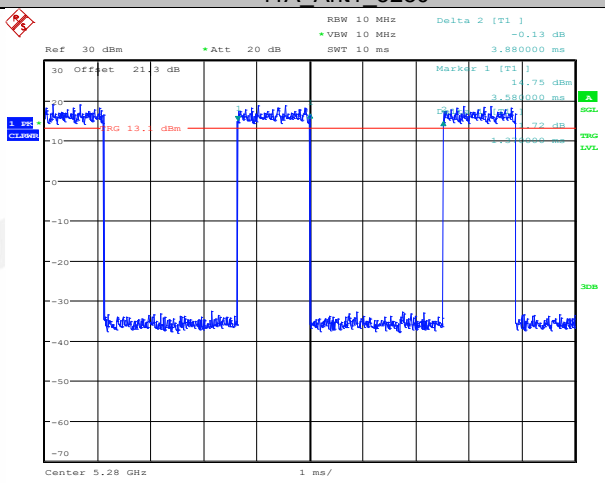

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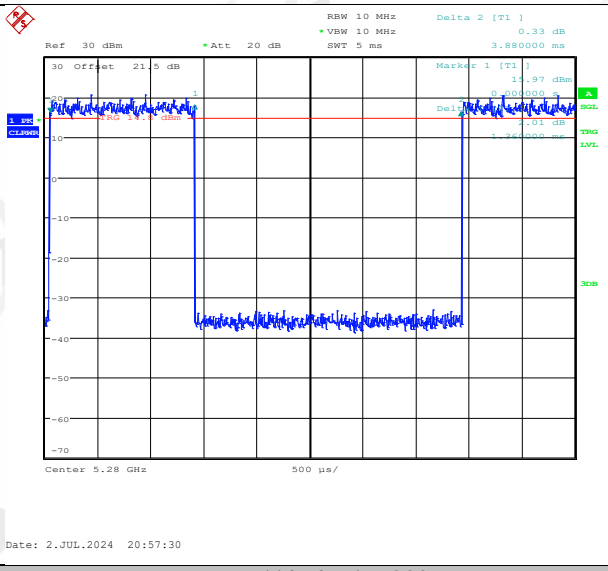
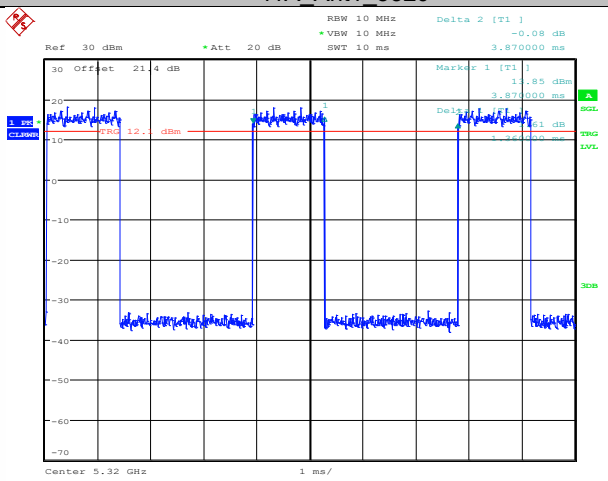


11A_Ant1_5320



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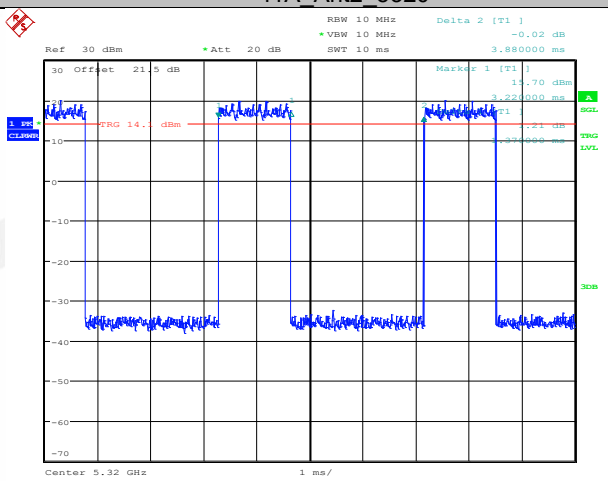

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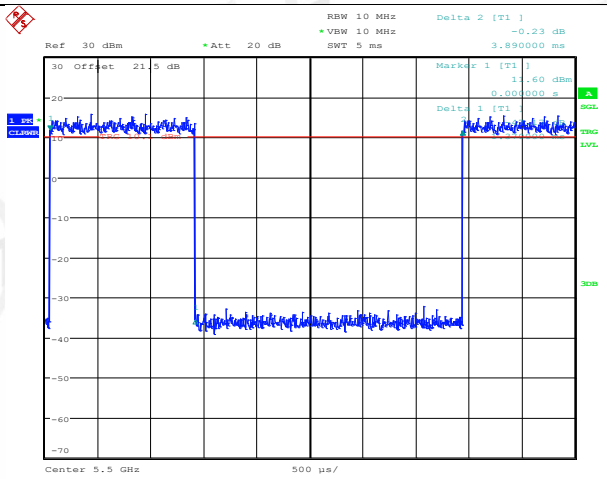

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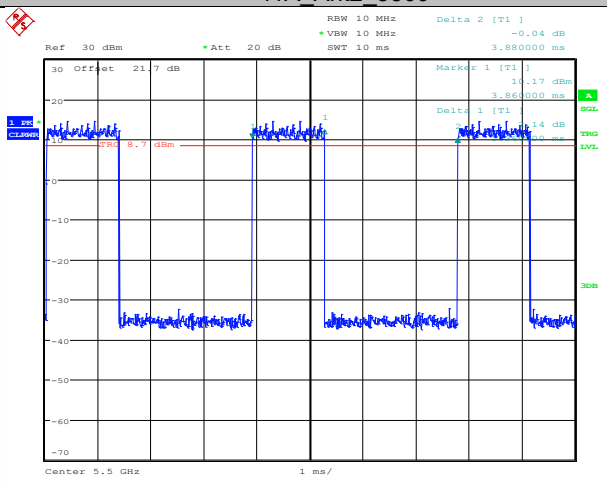

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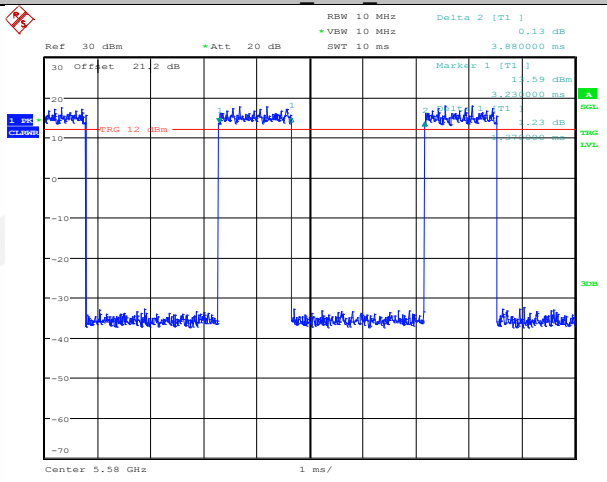

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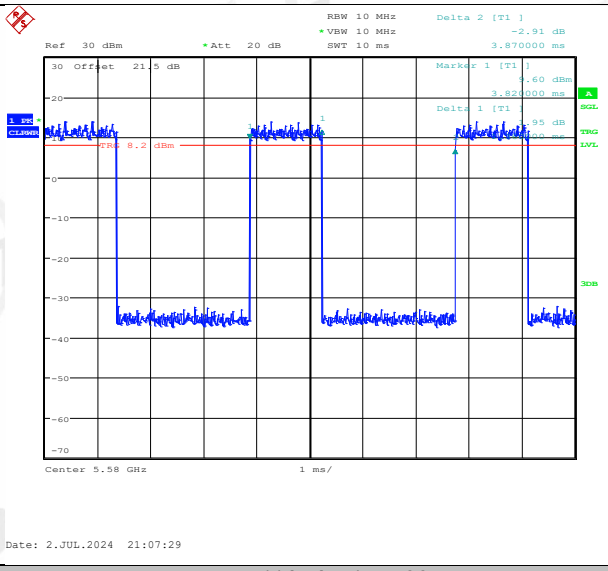

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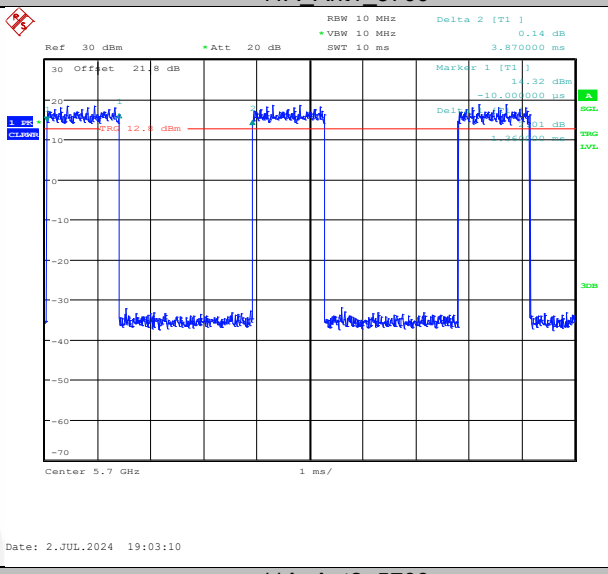

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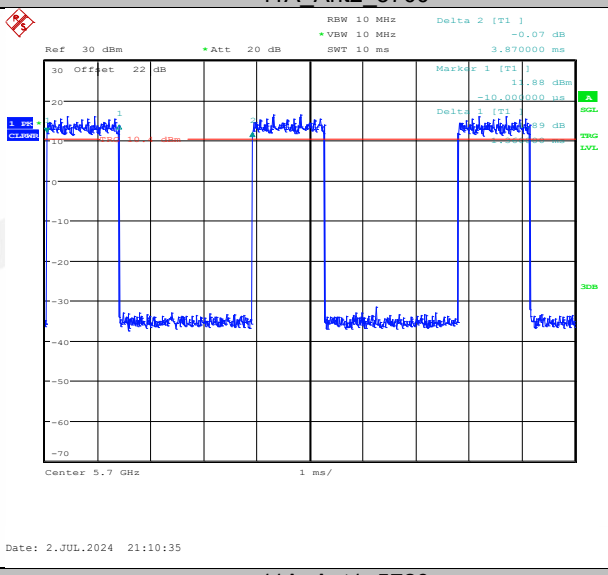

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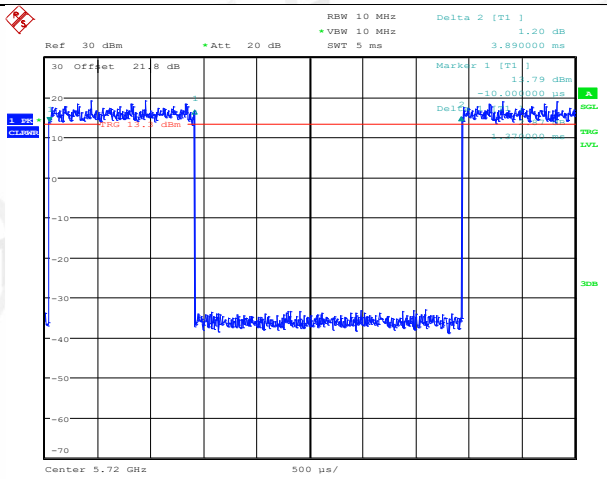

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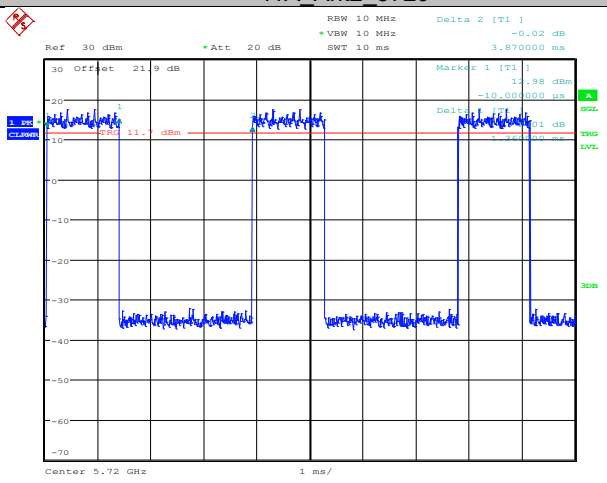
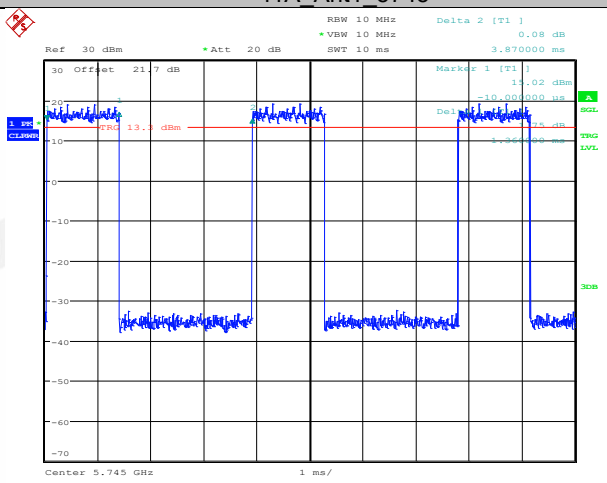


11A_Ant1_5745



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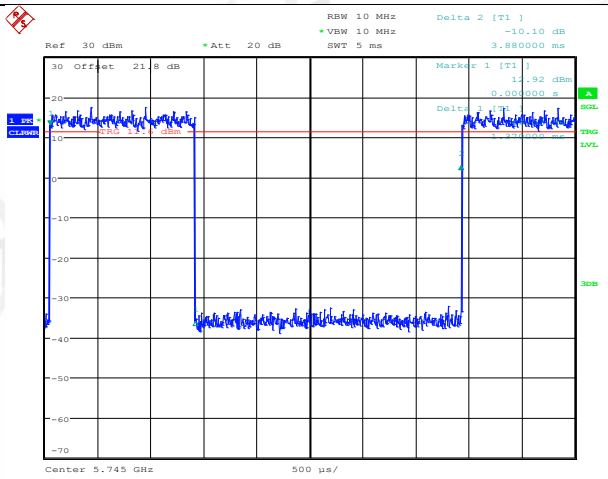
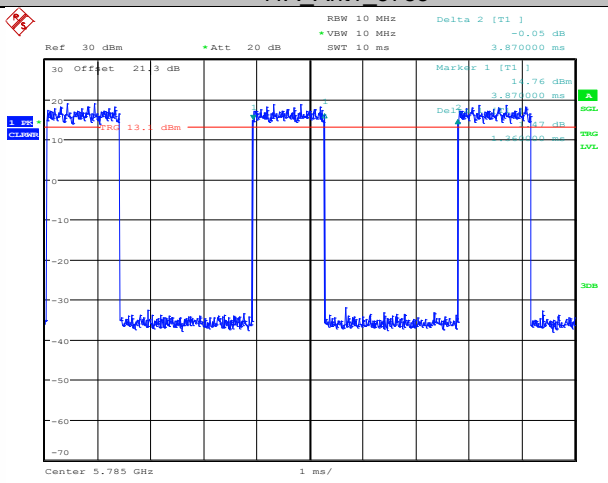
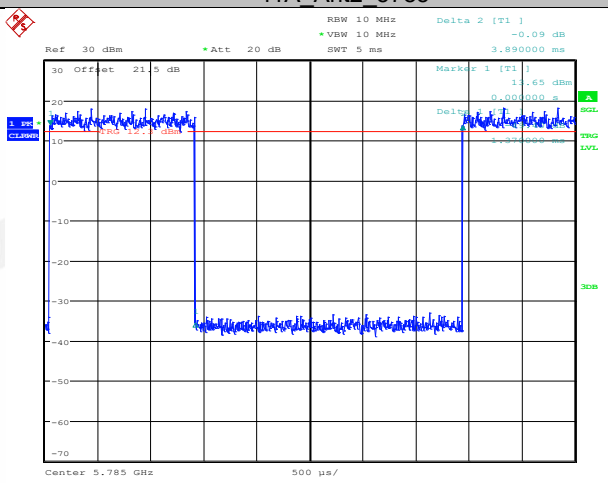


11A_Ant1_5785



11A_Ant2_5785



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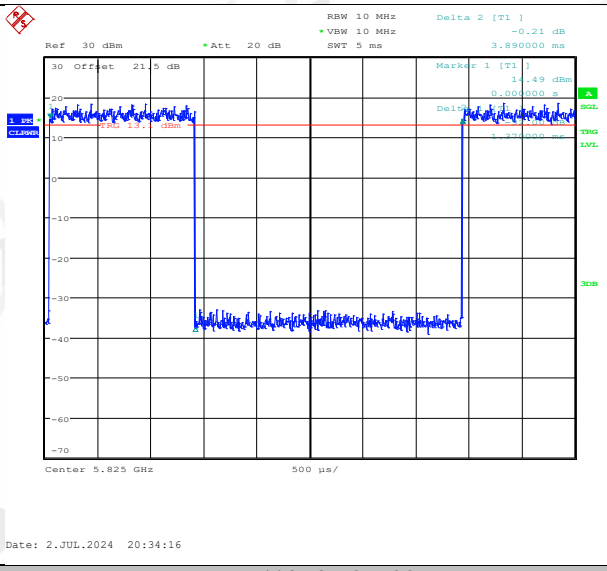

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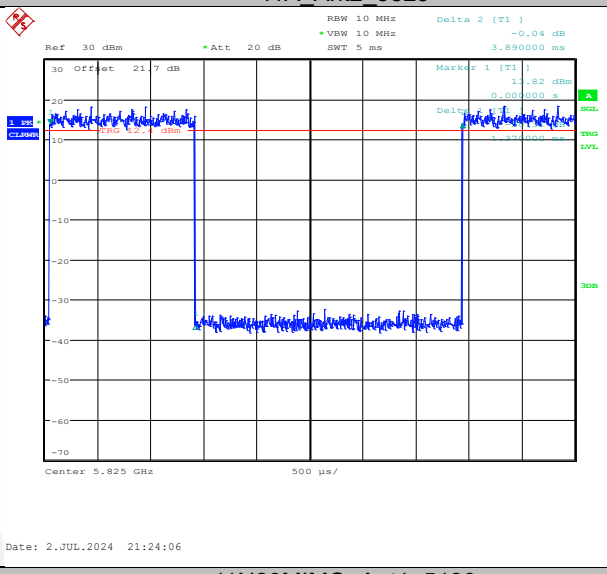
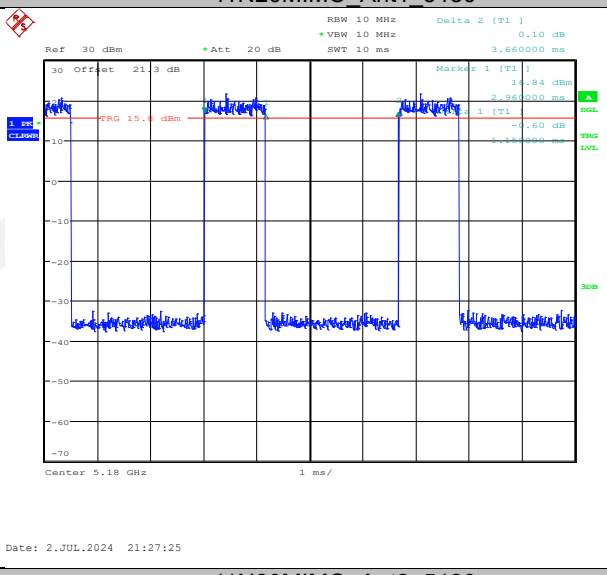


11N20MIMO_Ant1_5180



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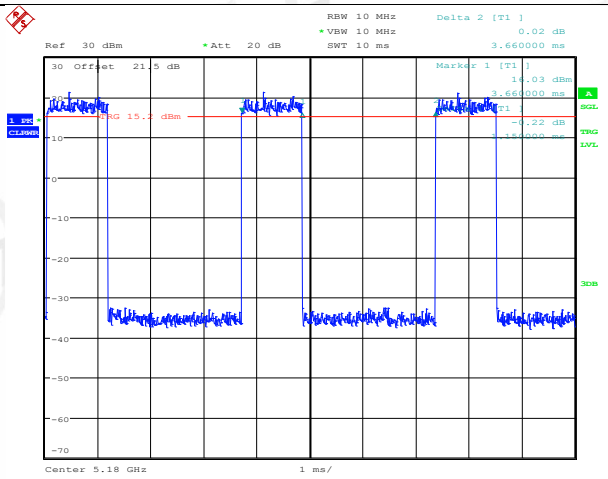

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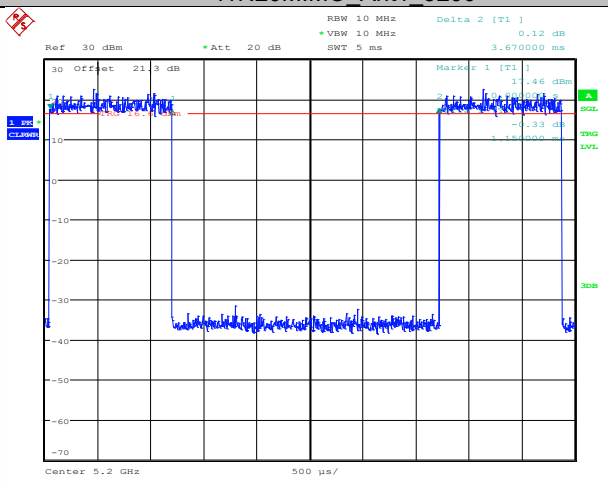

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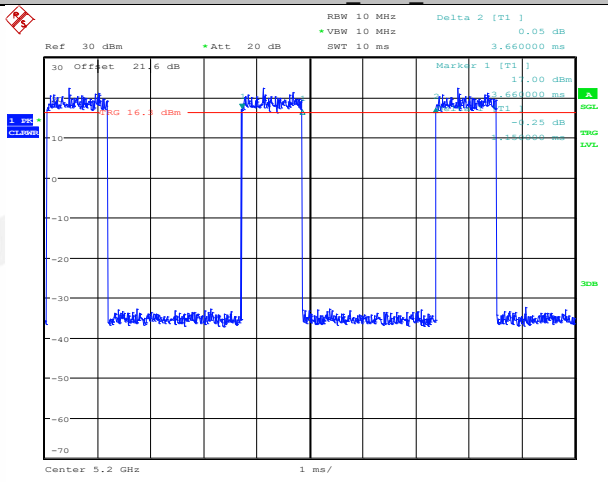

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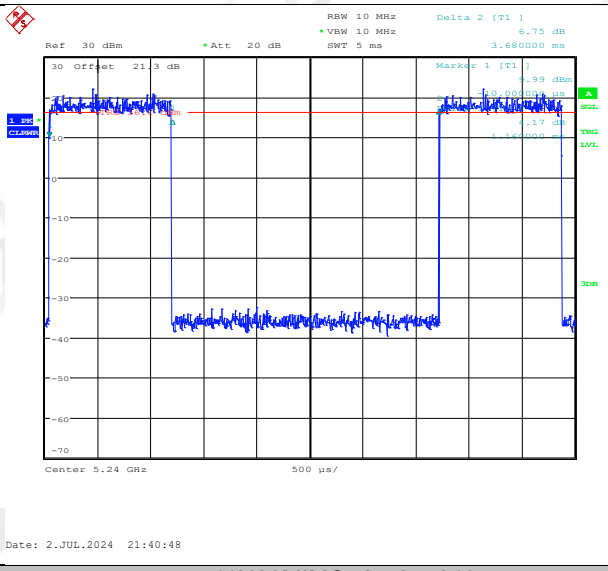

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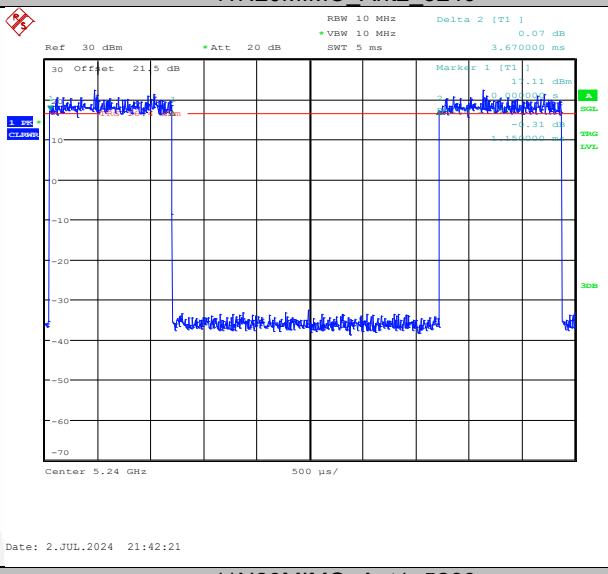

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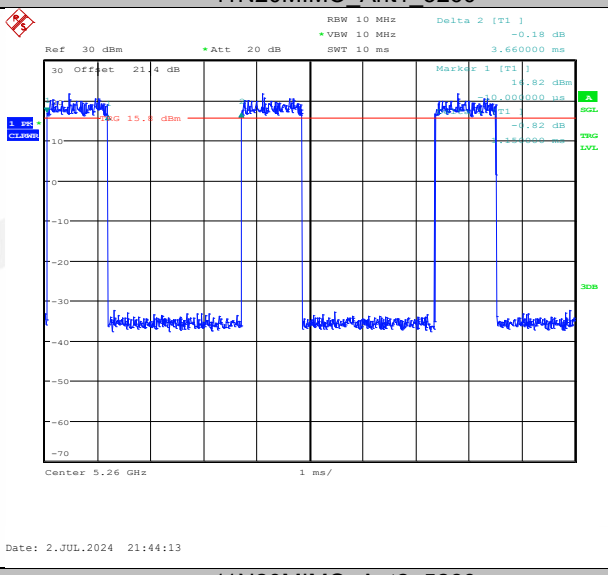

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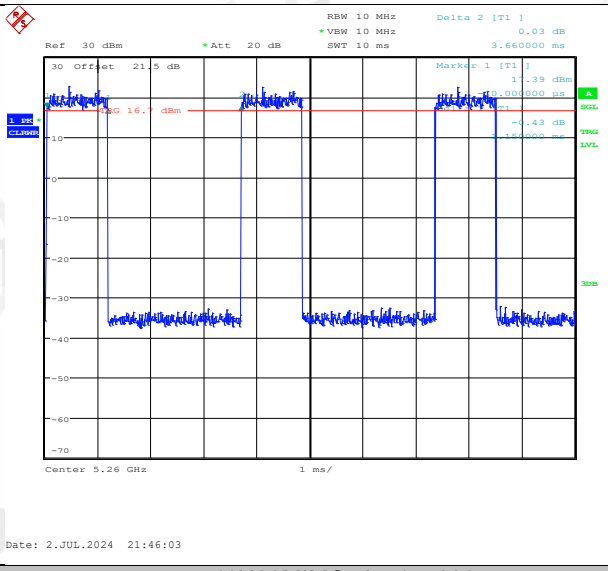

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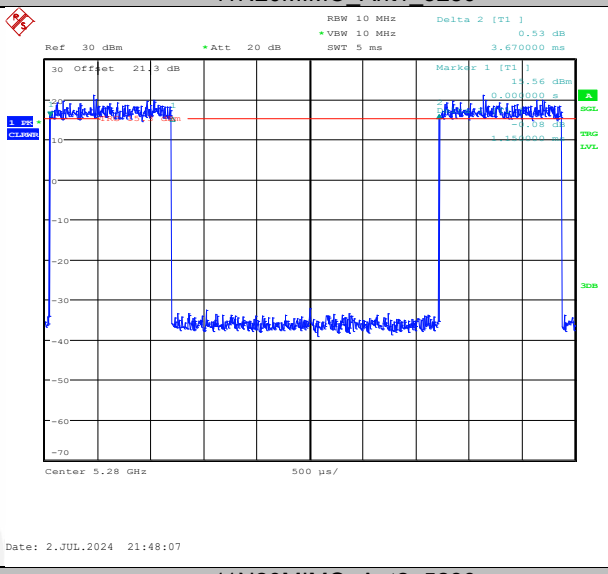

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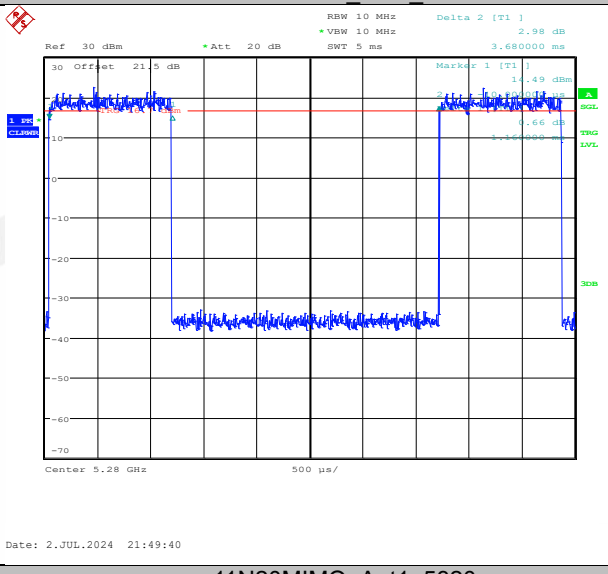

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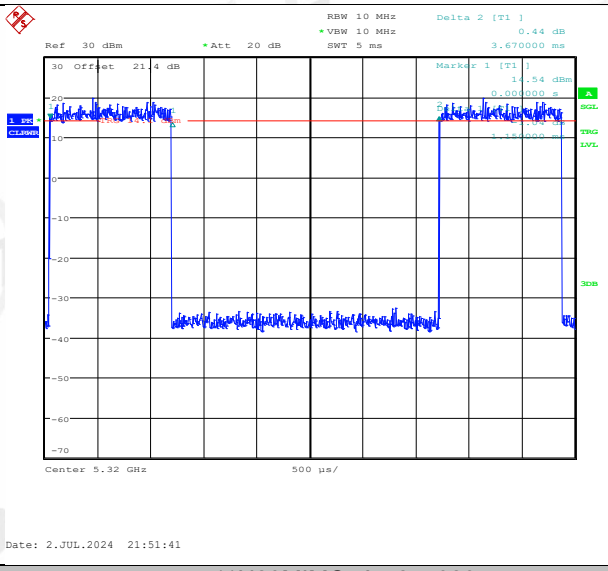

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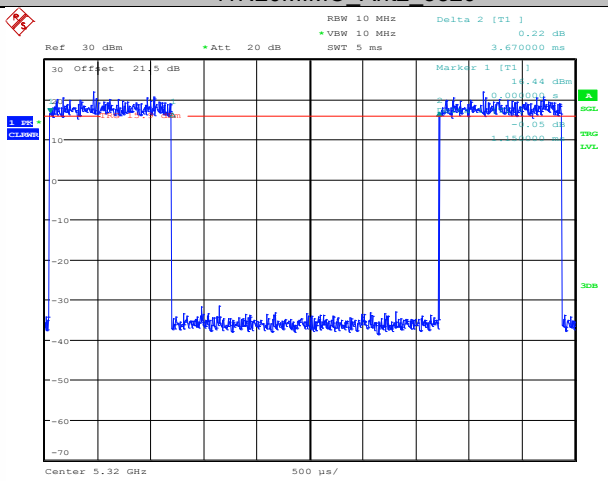

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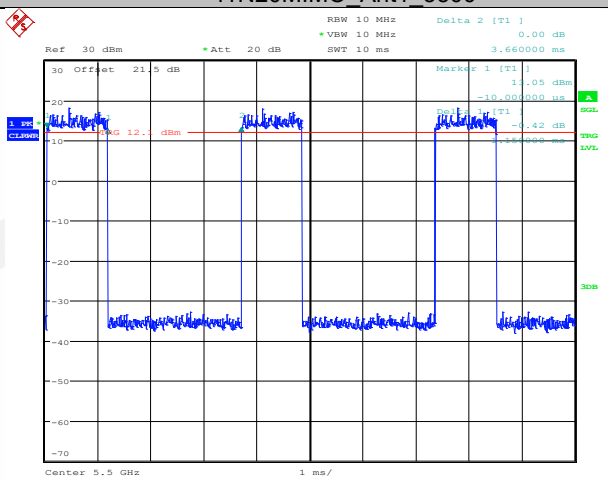

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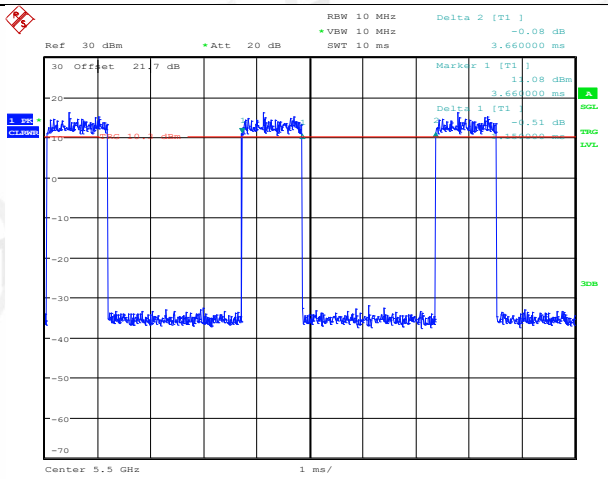

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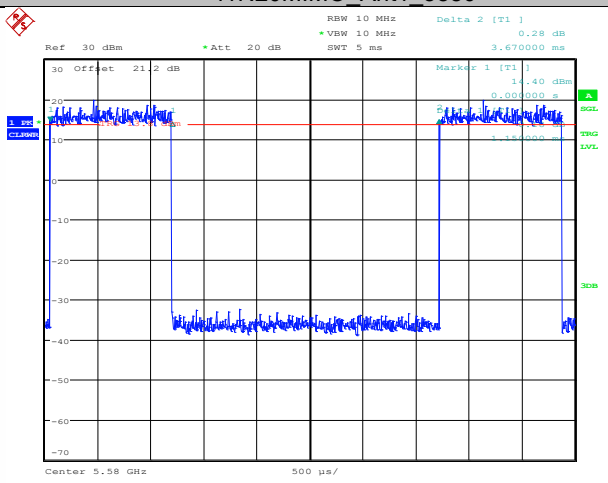

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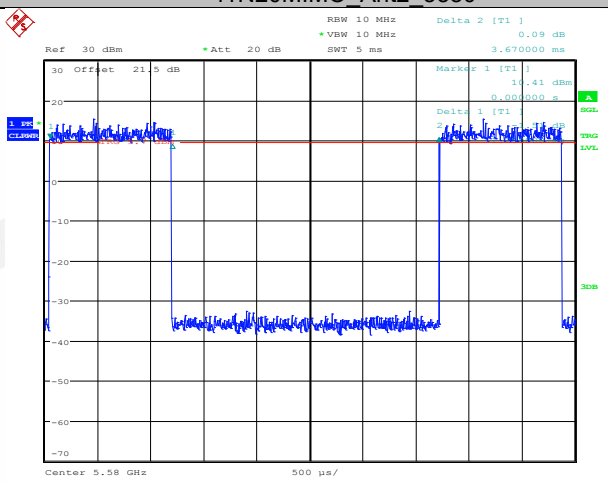

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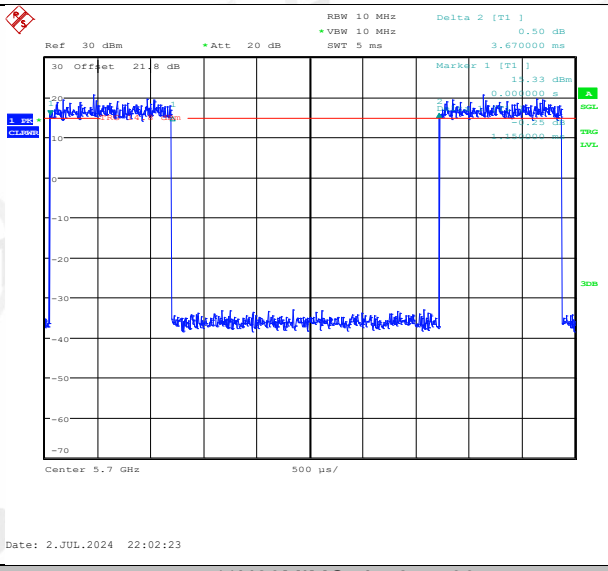

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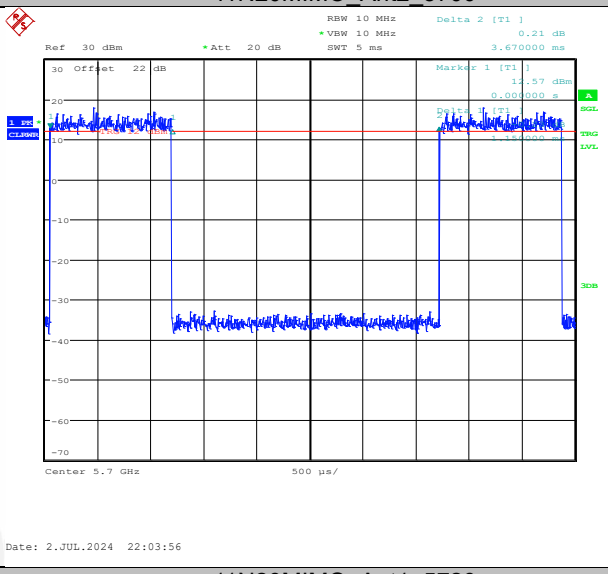

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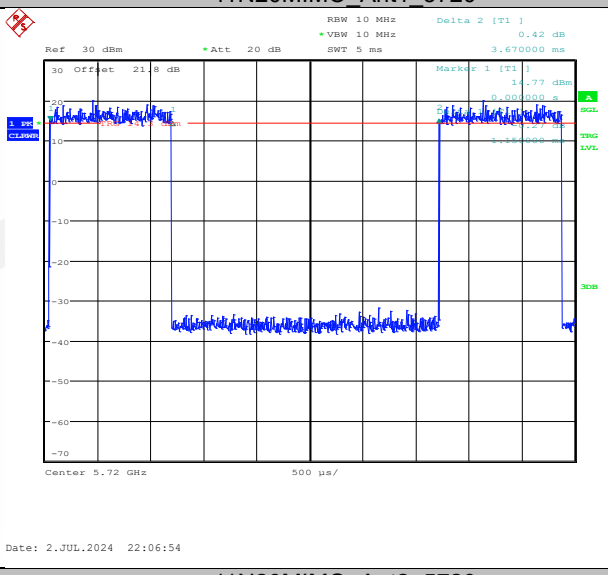

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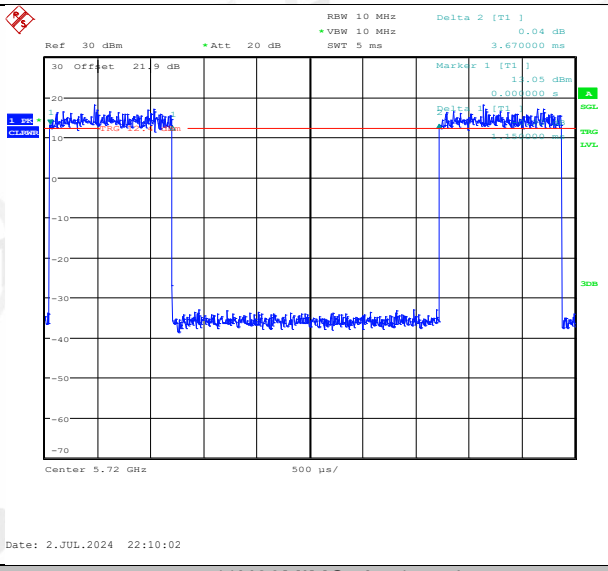

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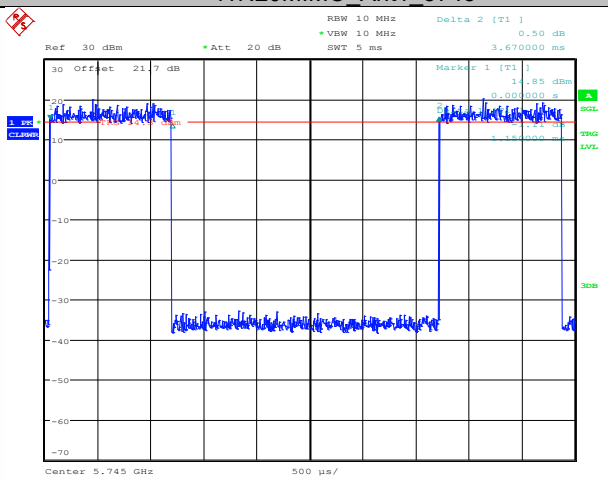

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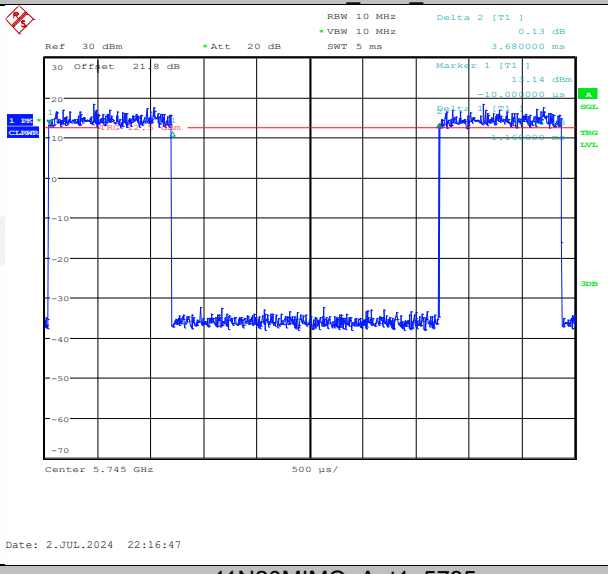
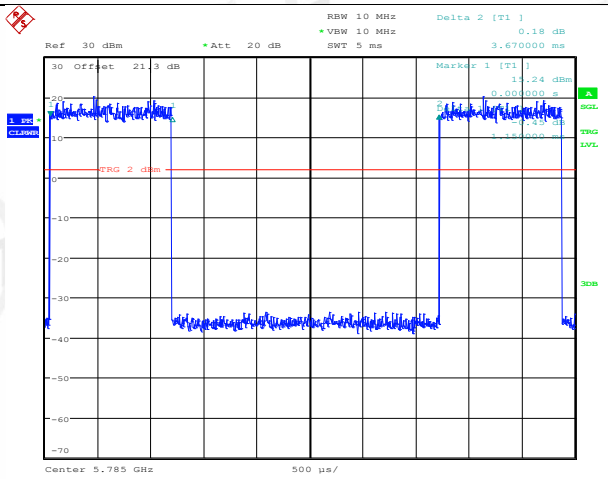


11N20MIMO_Ant1_5785



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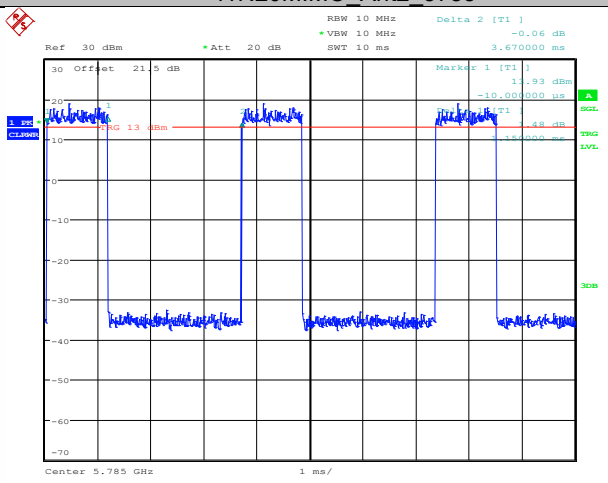

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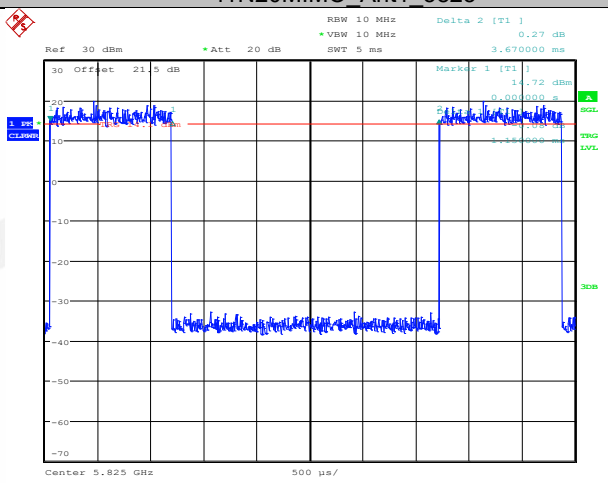

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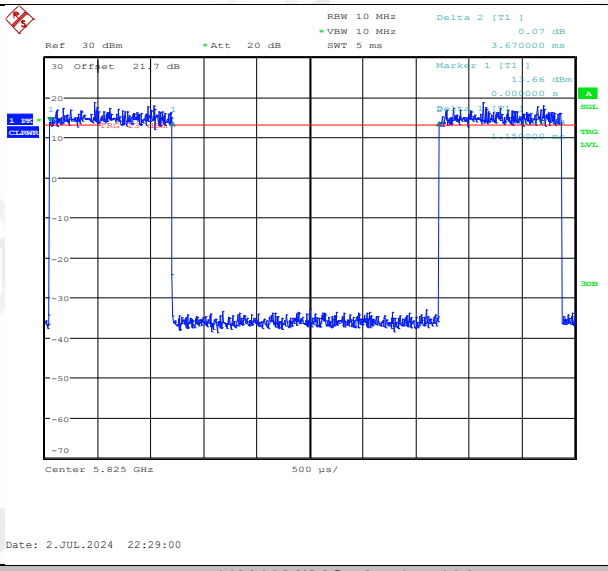
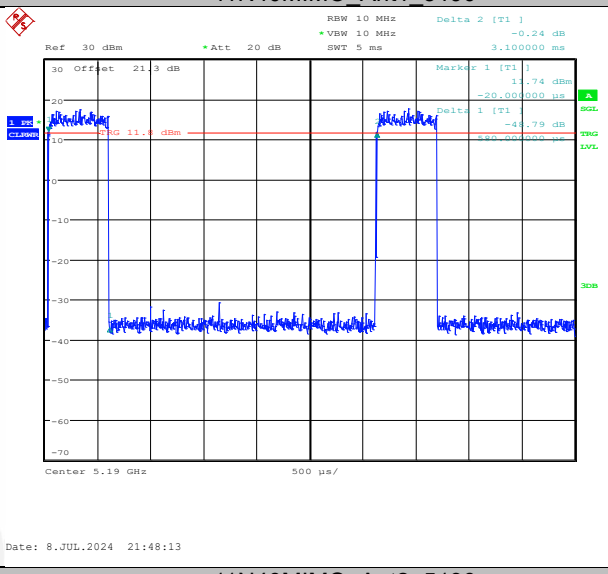


11N40MIMO_Ant1_5190



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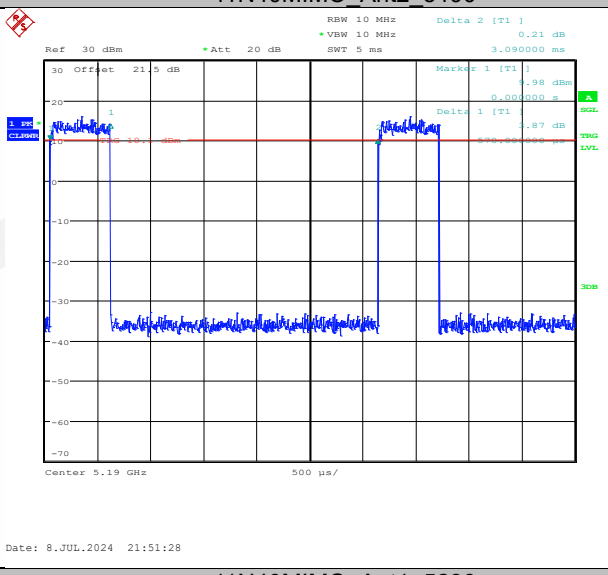
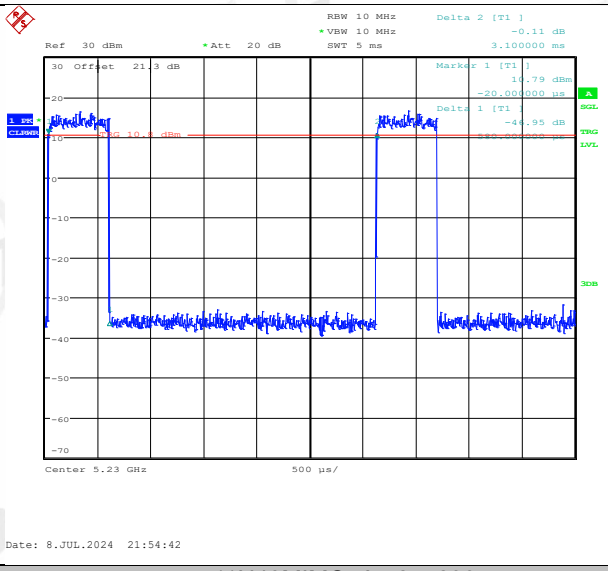
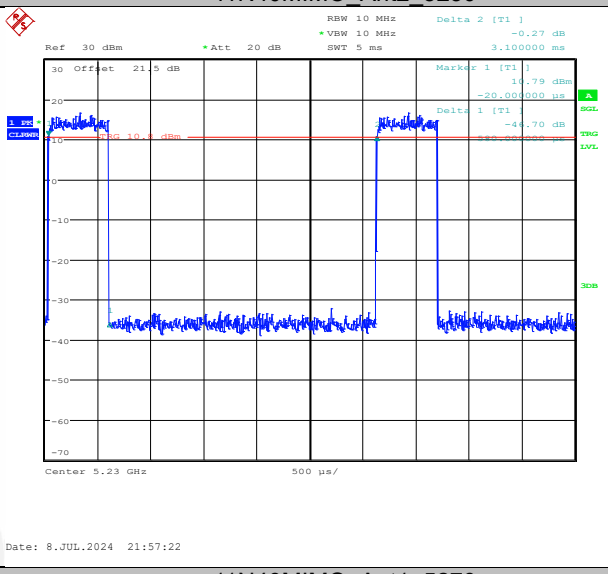


11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



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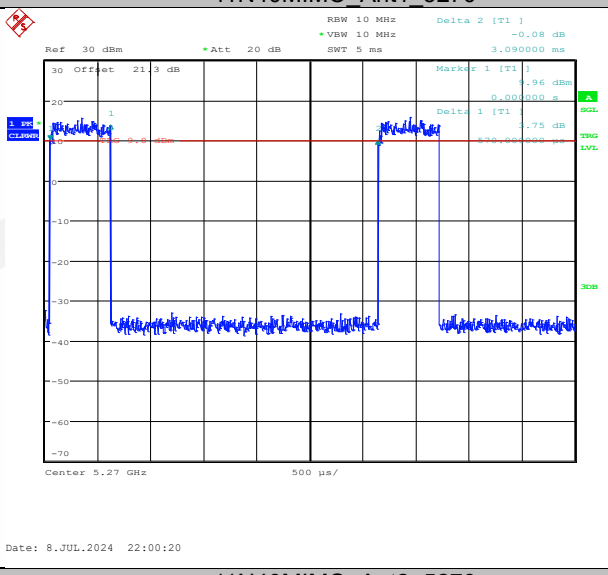

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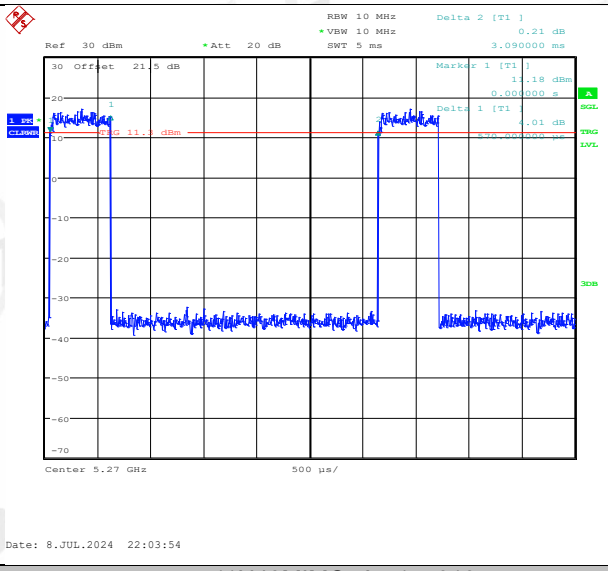

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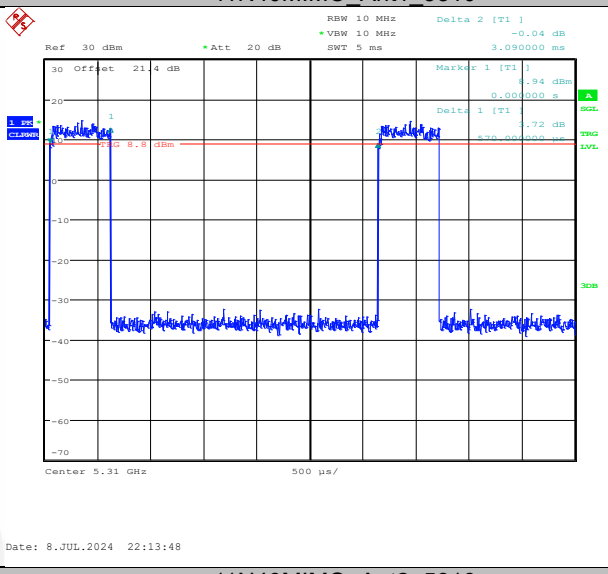
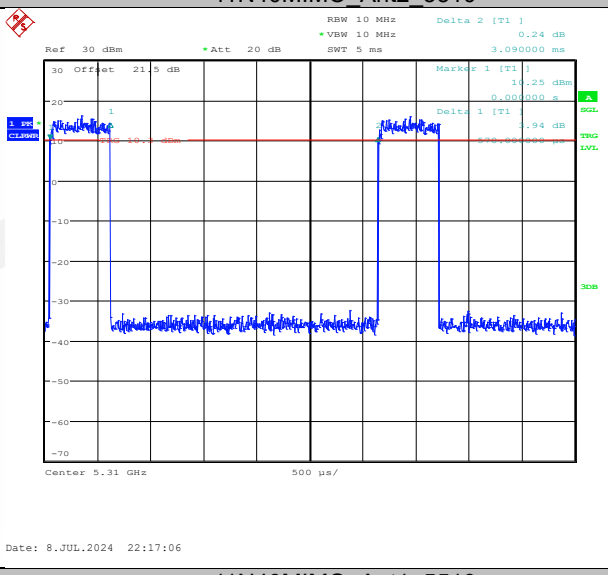
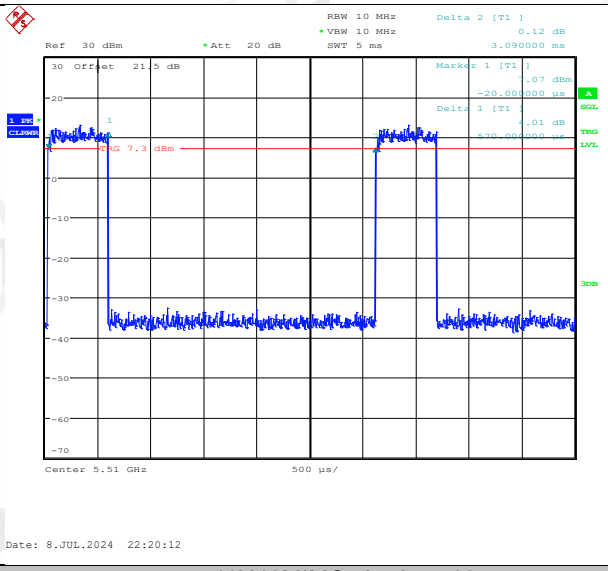


11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



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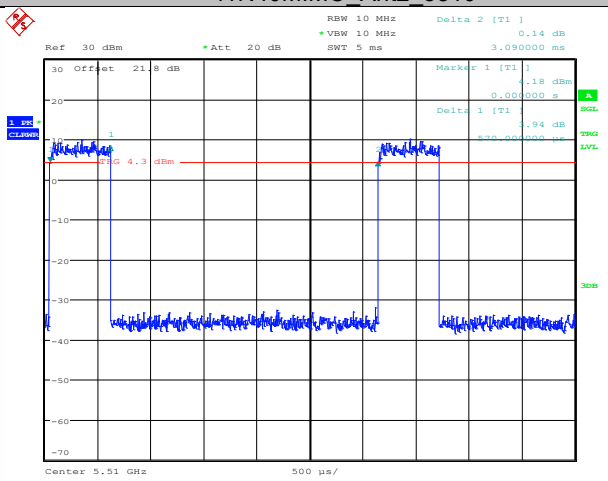

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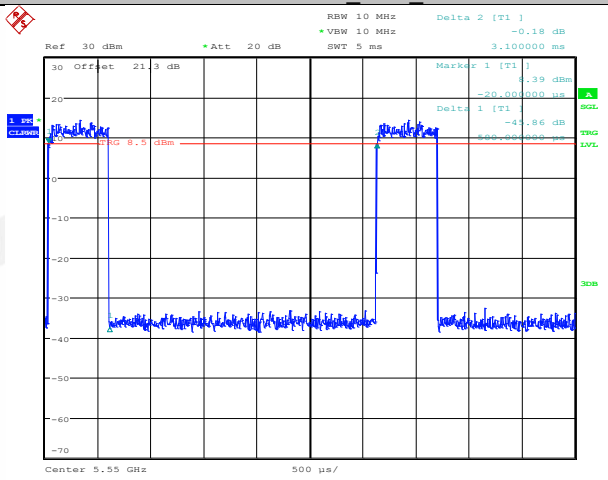

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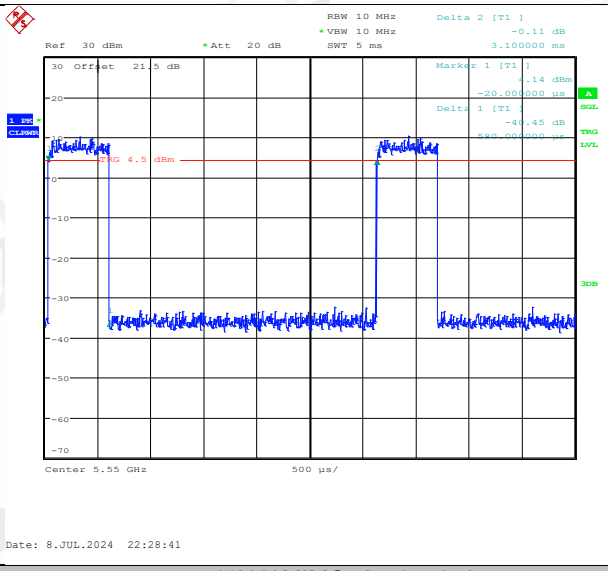
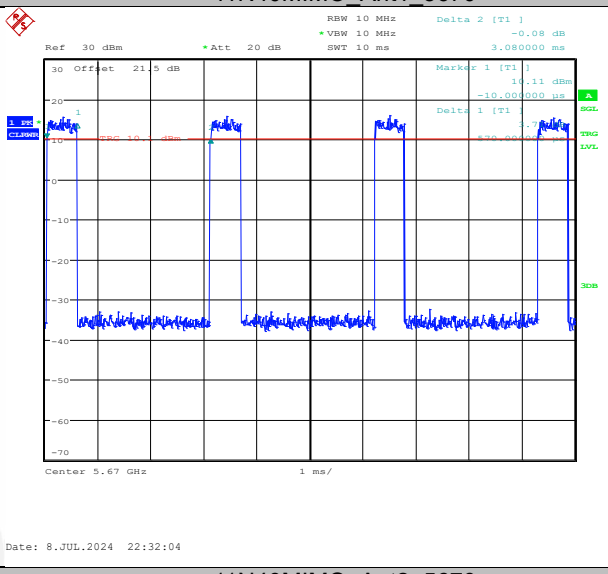


11N40MIMO_Ant1_5670



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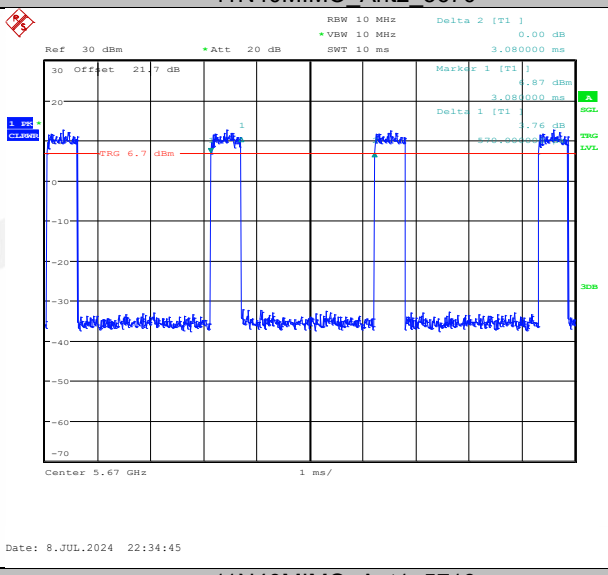

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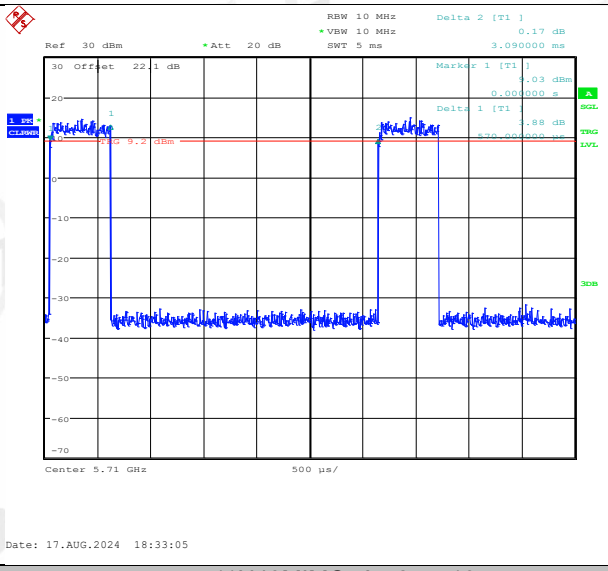

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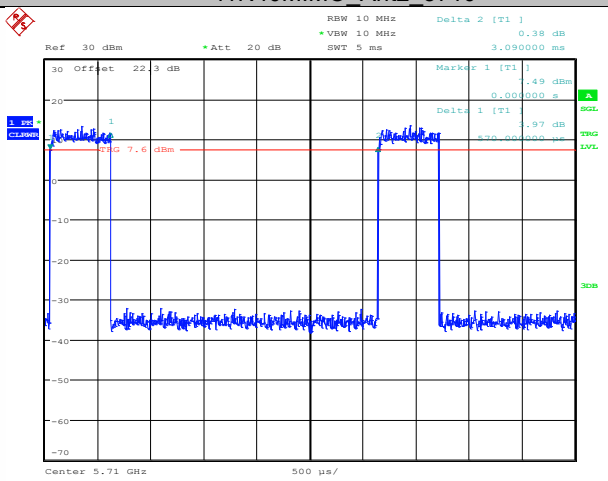

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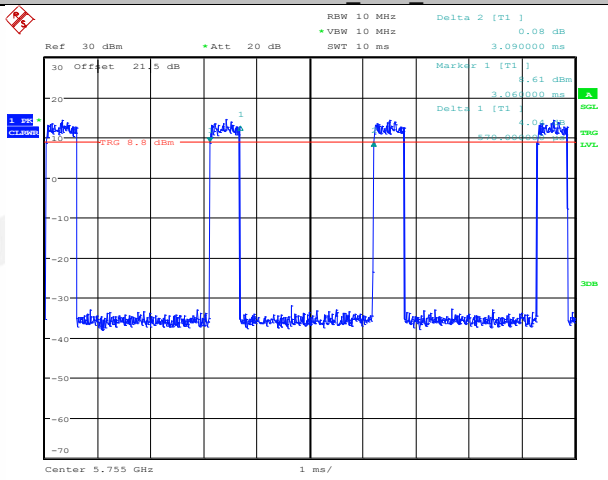

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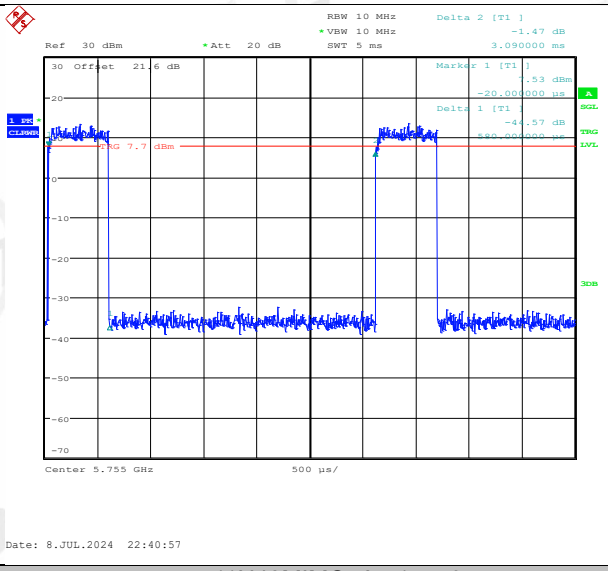

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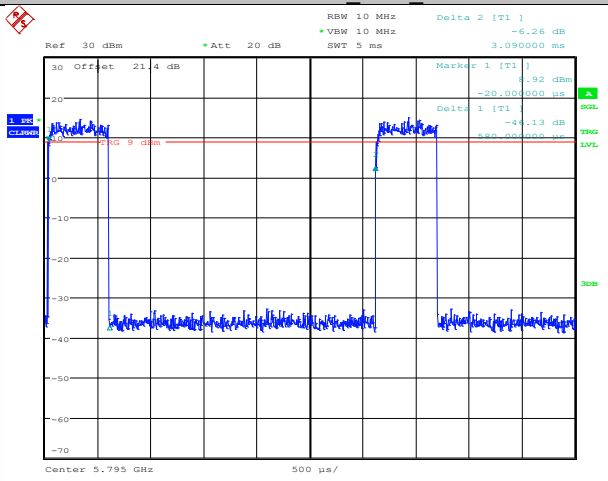

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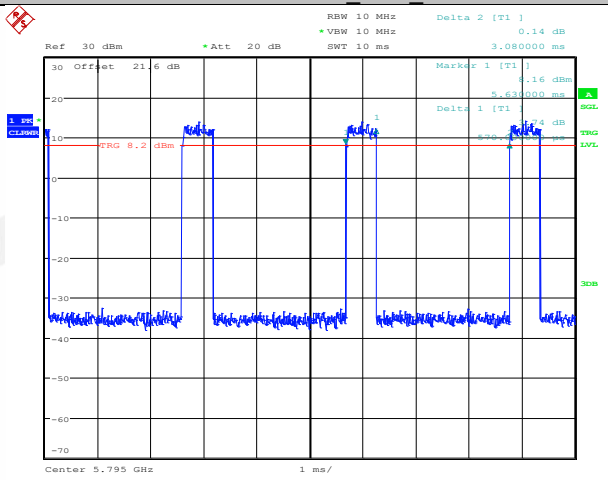

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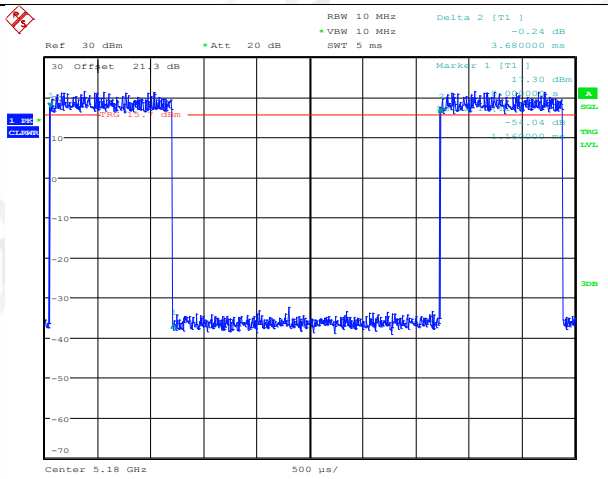

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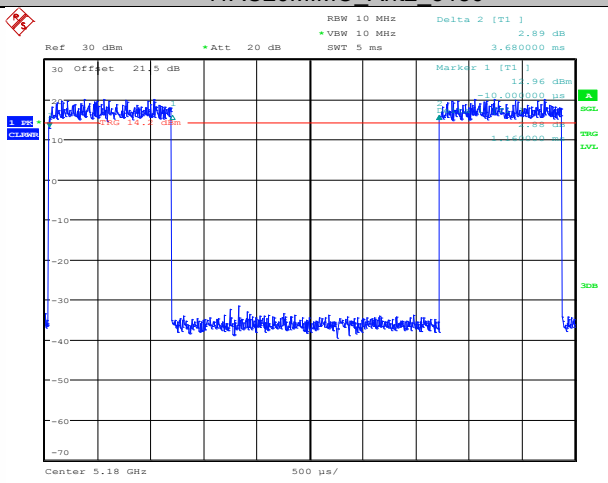

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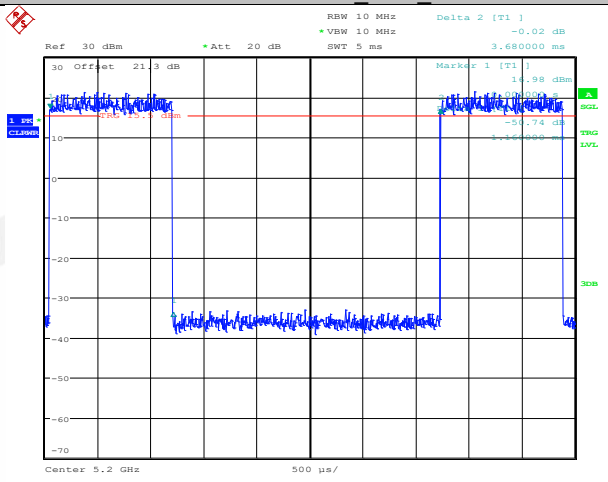

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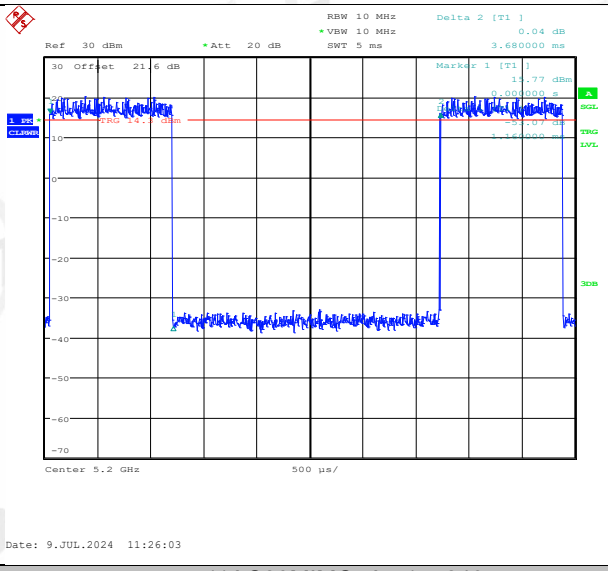

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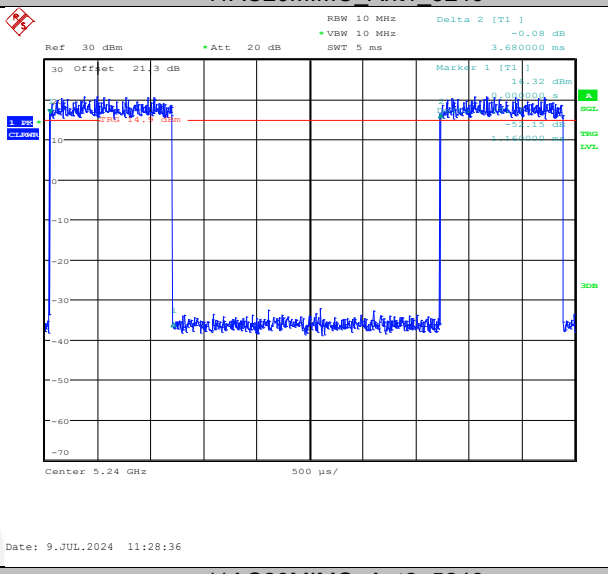

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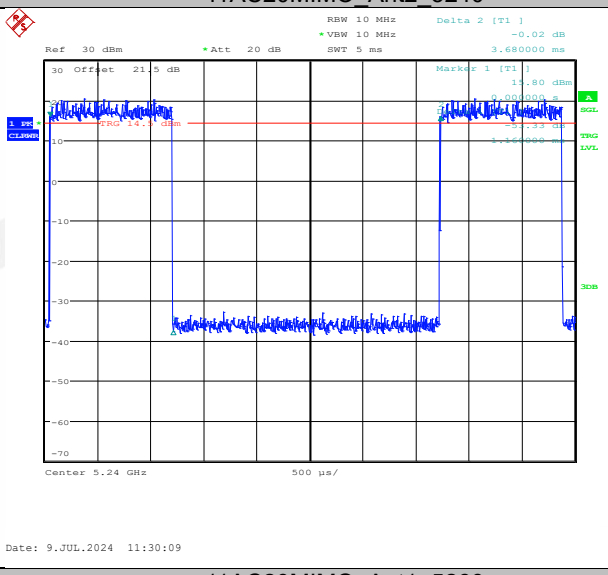

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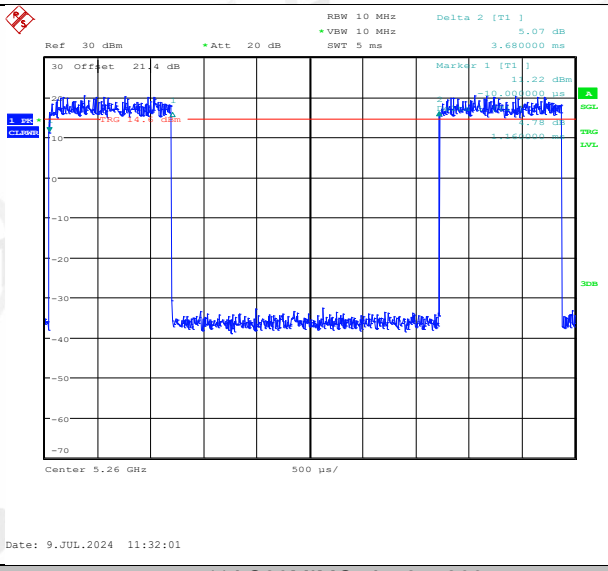

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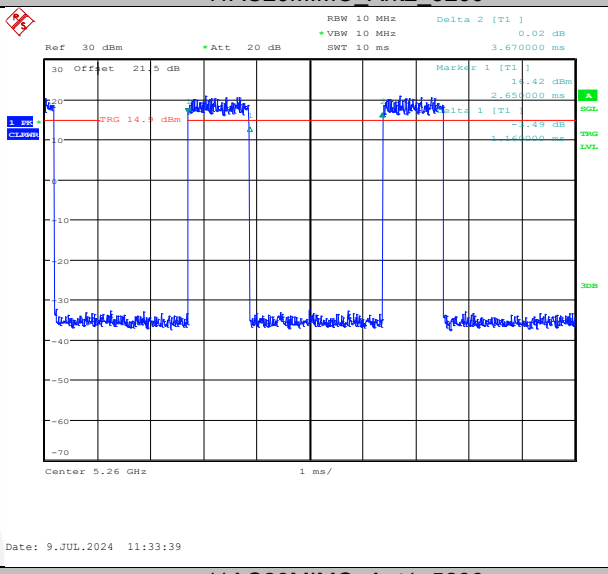

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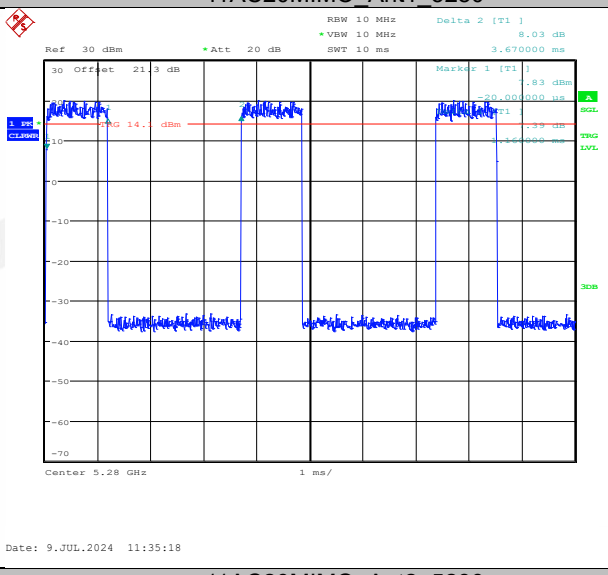

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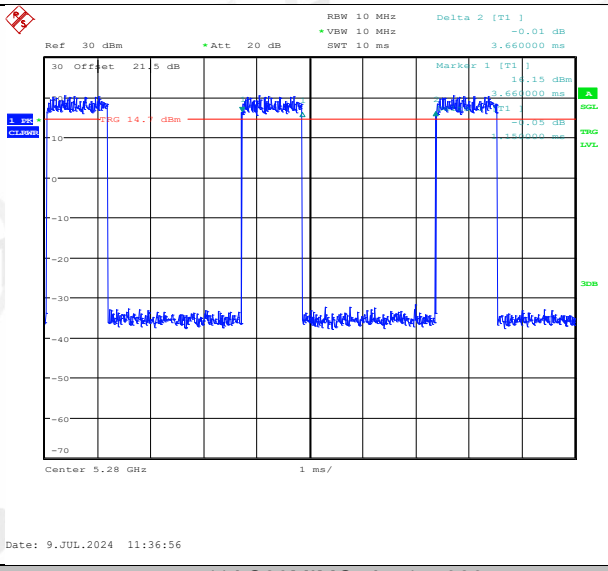

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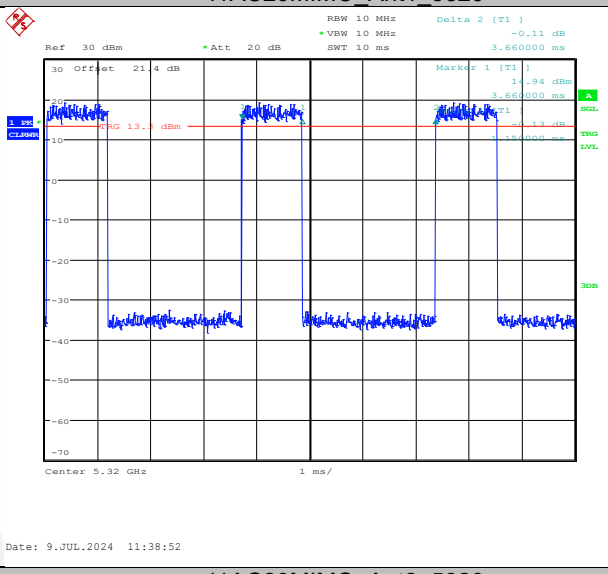

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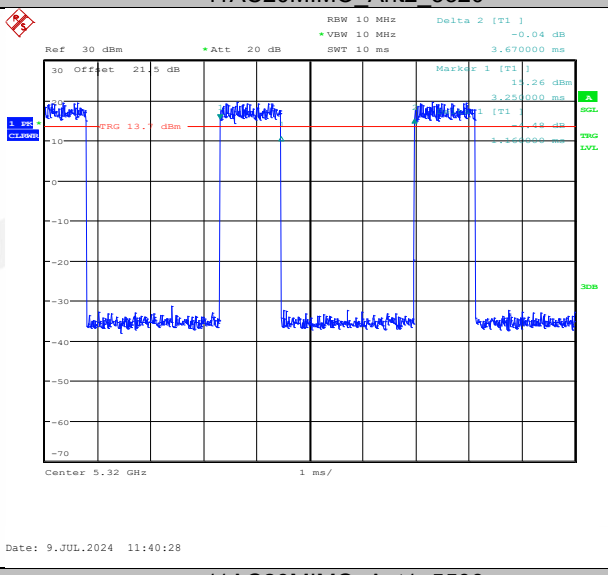

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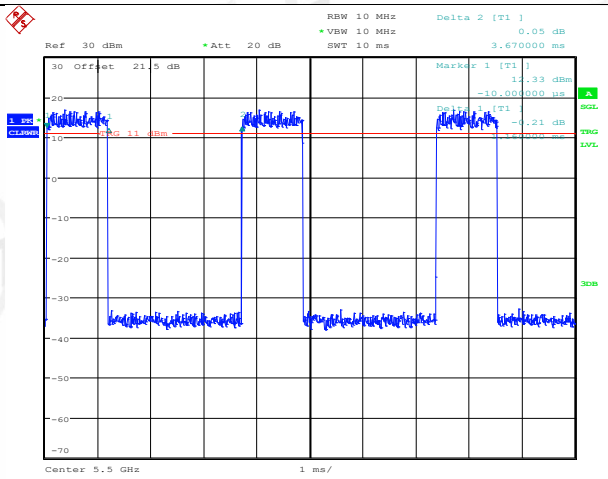

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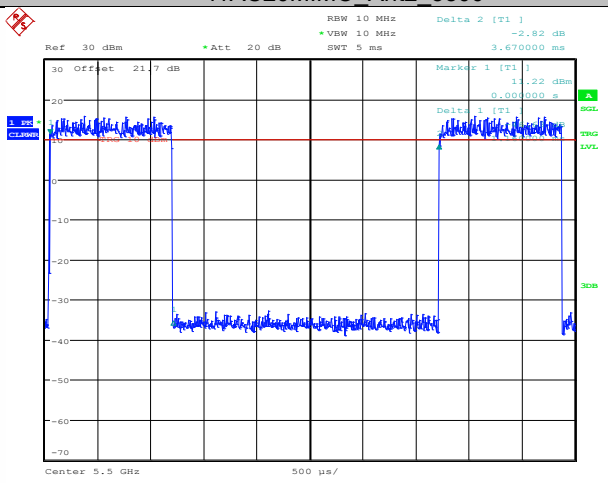

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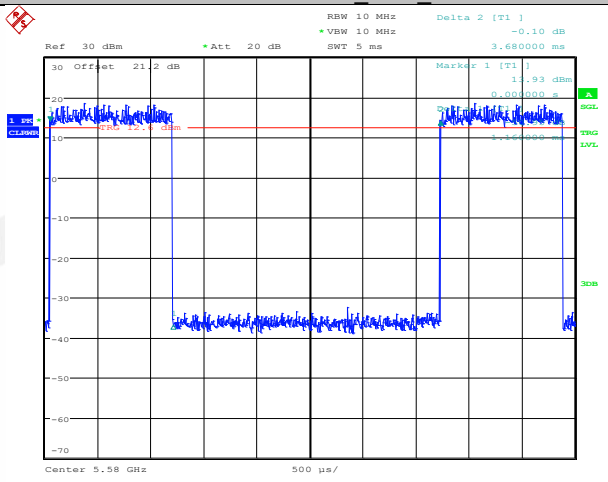

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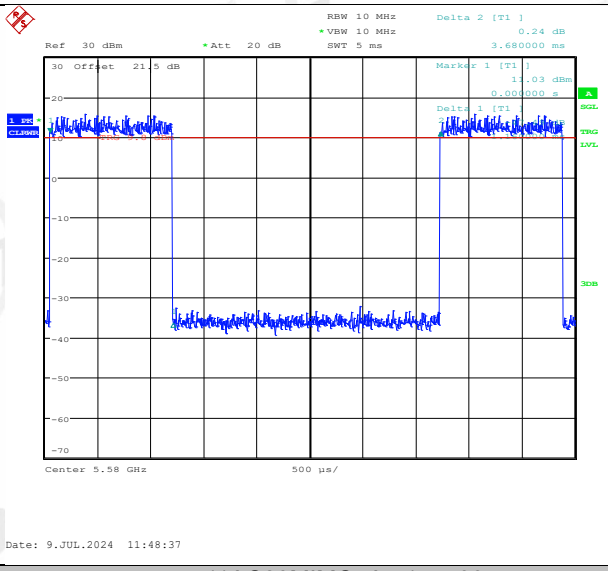

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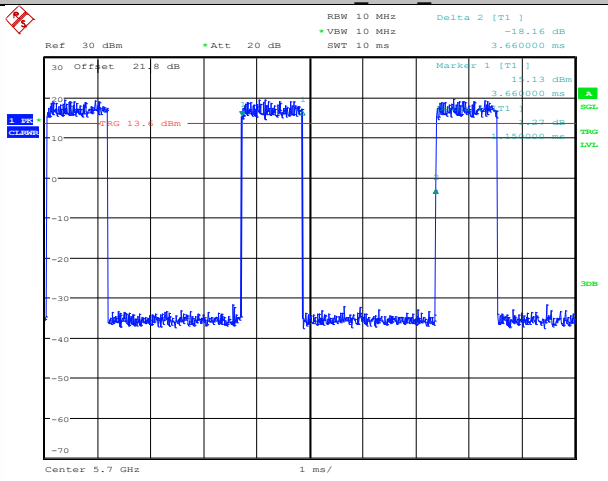

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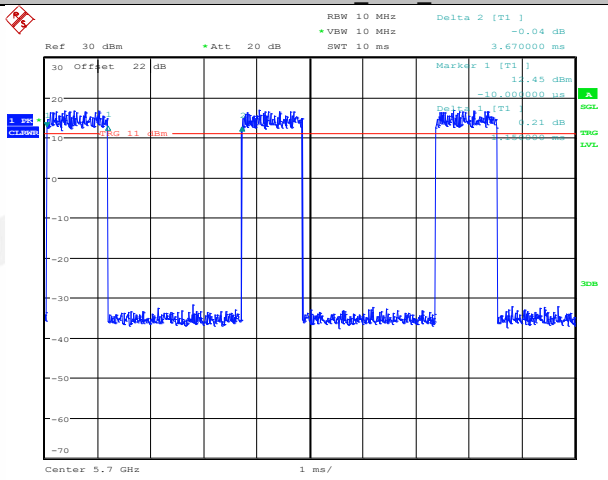

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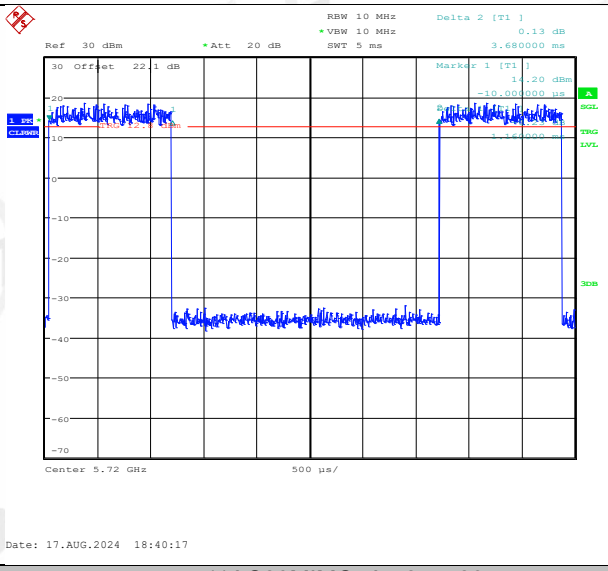

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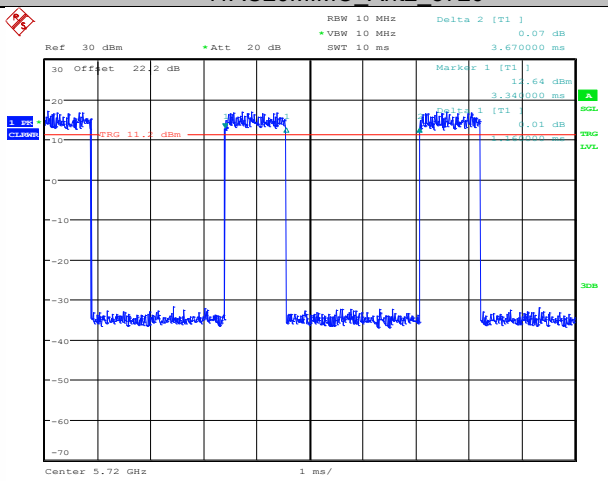

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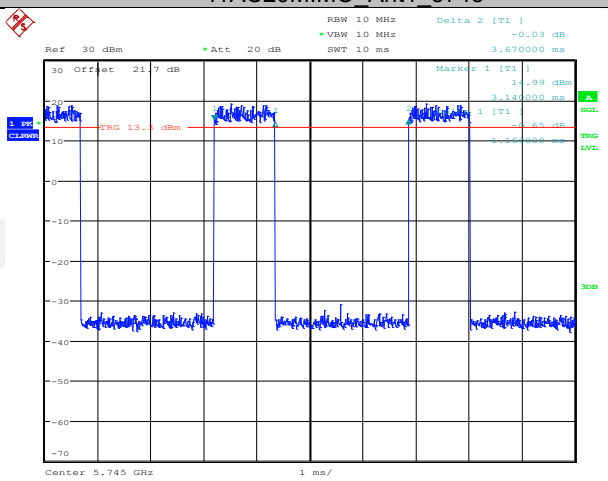

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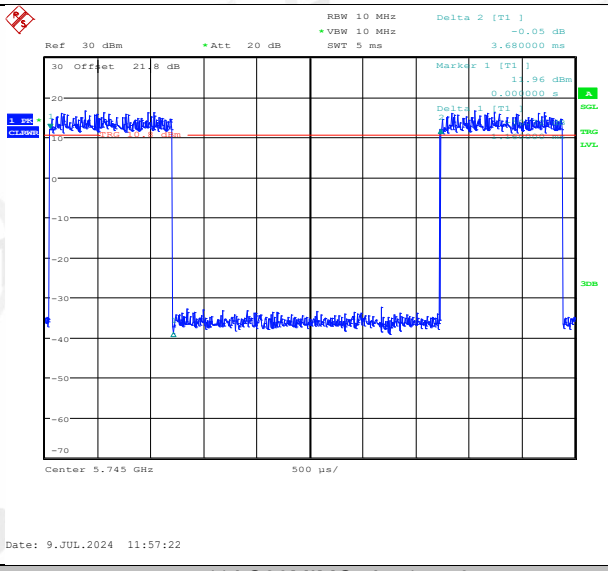

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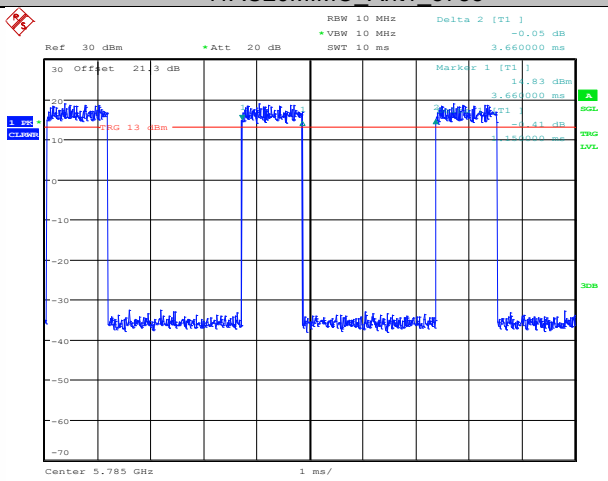

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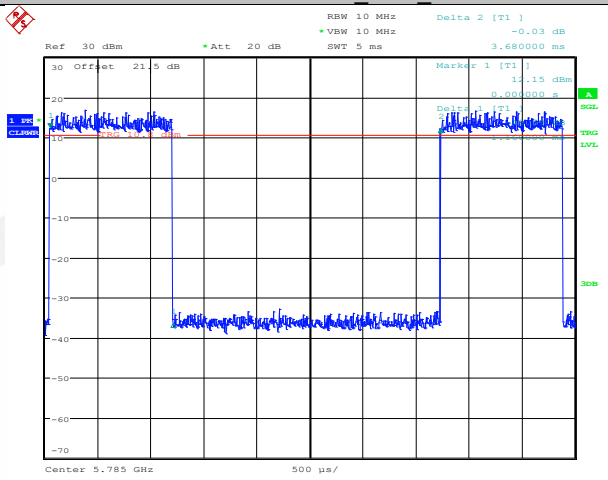

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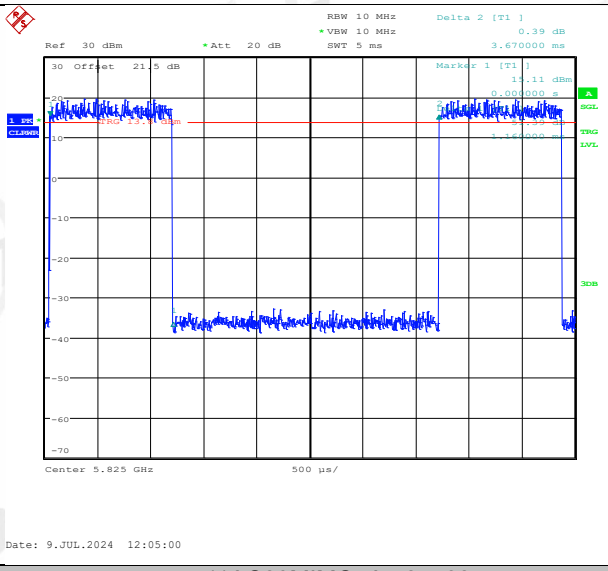

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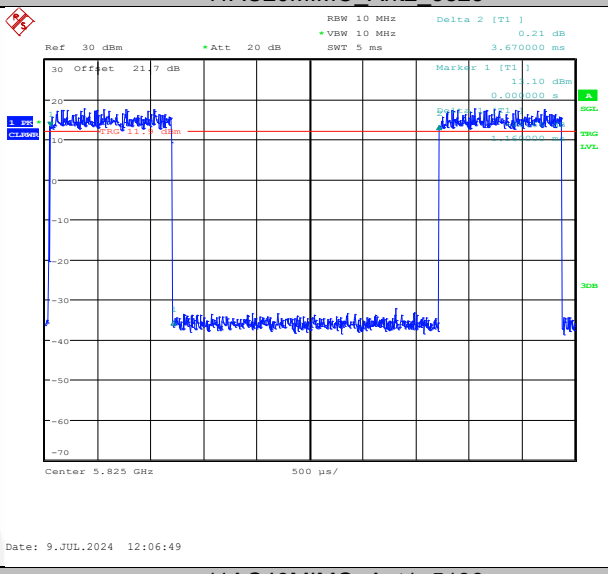

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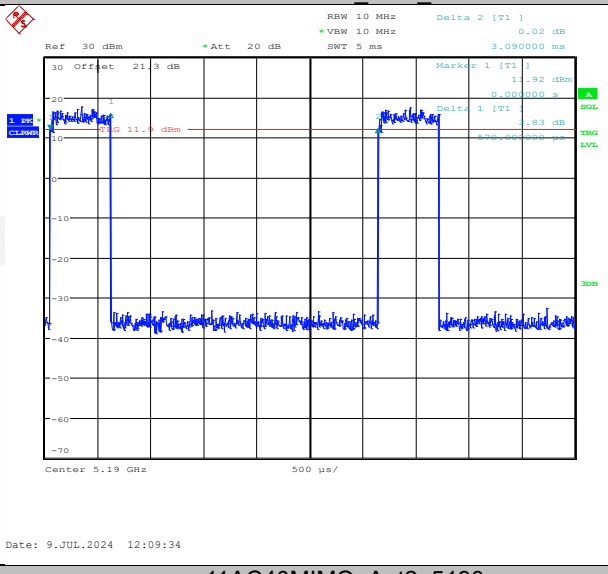

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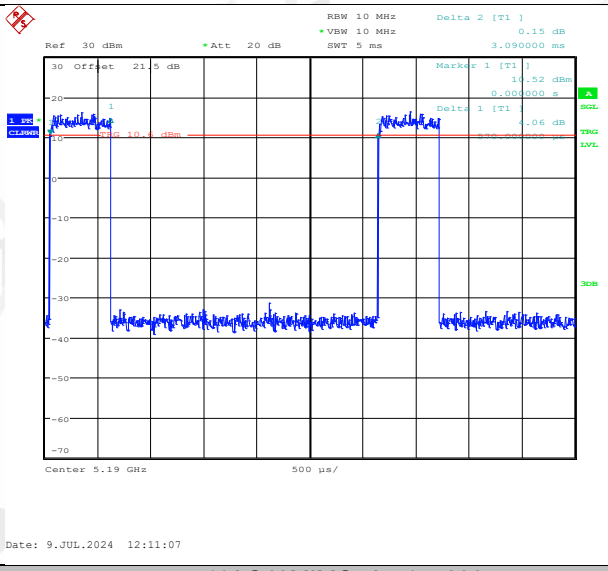

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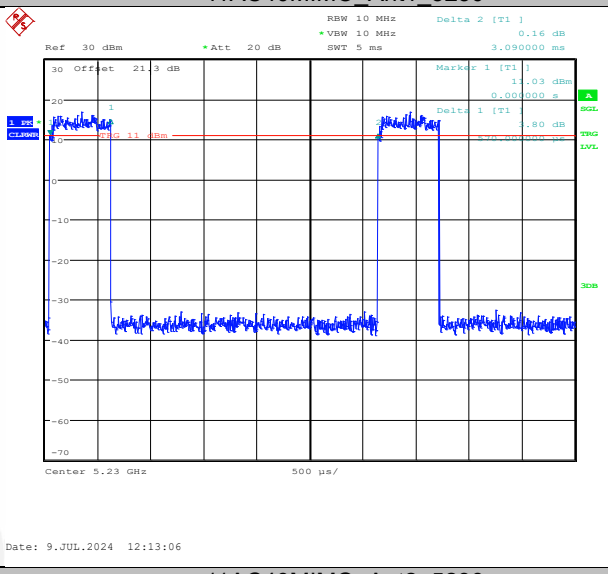

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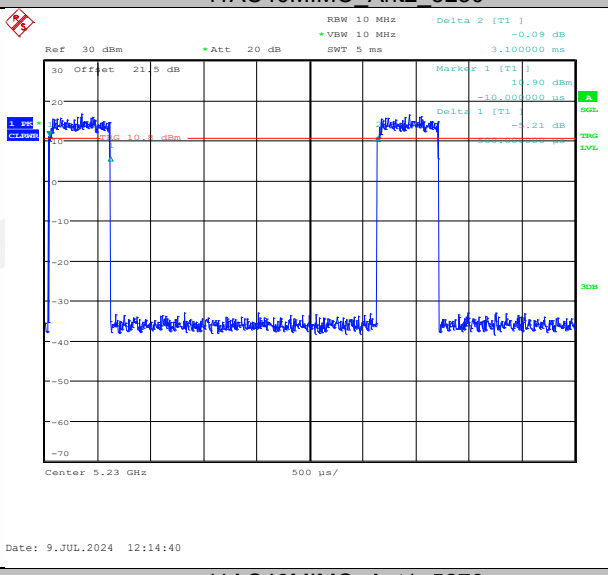

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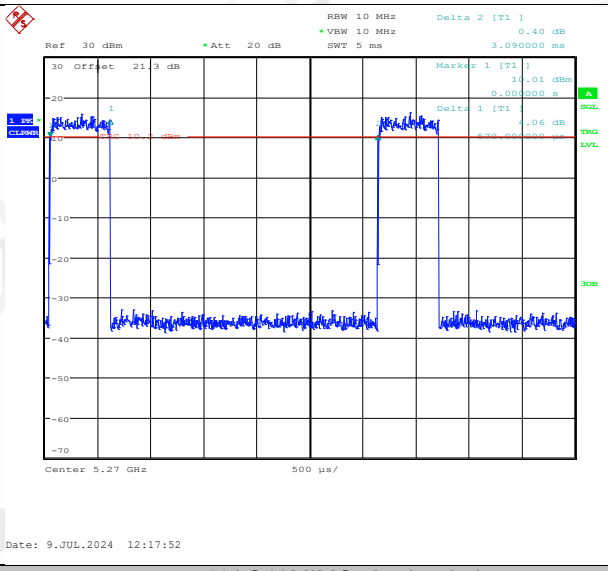

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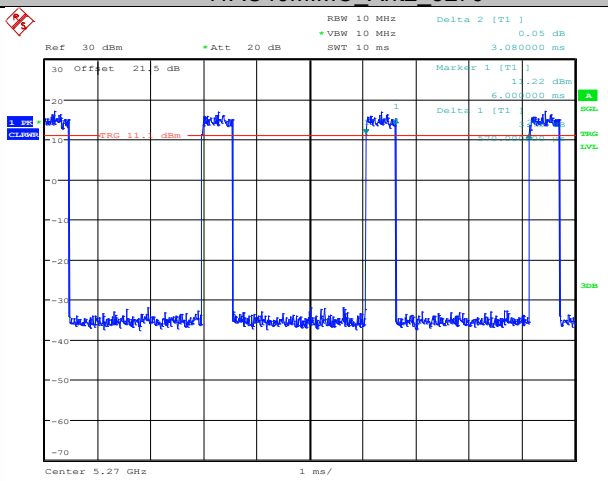

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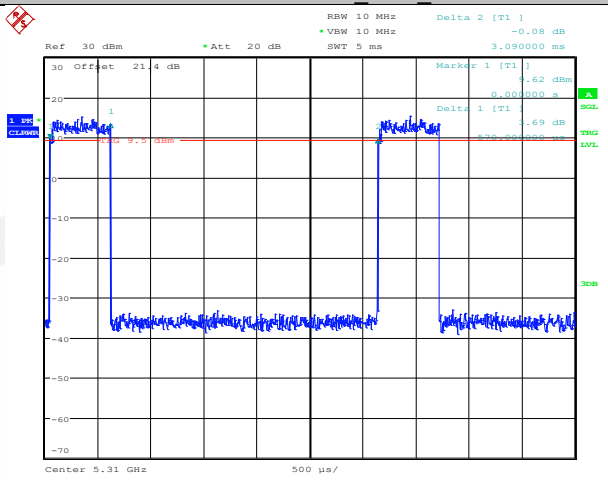

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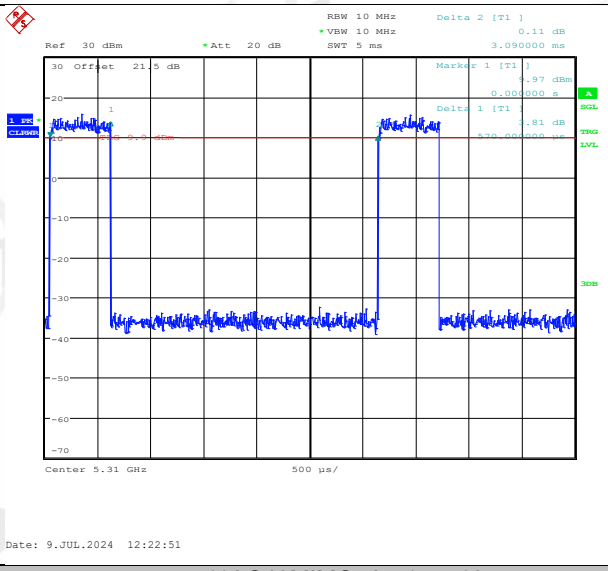

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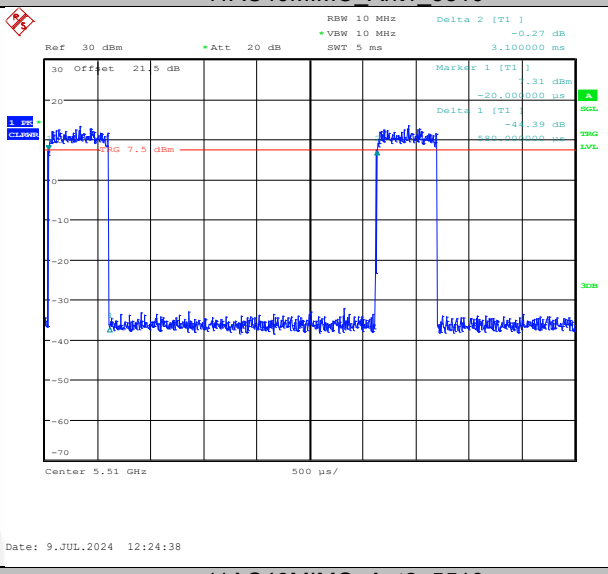

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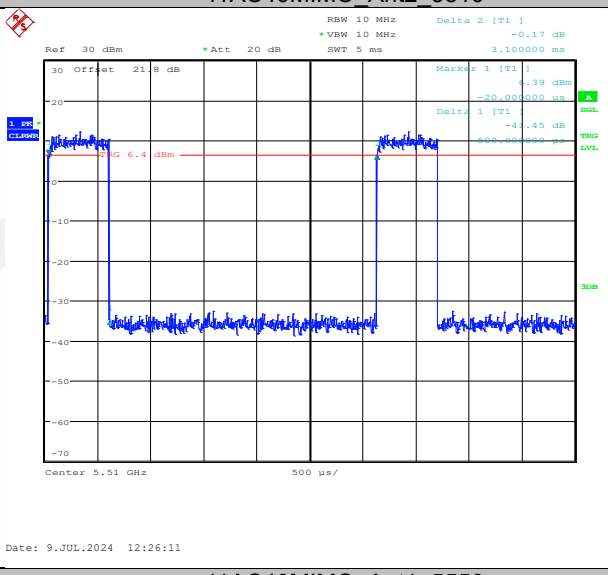

11AC40MIMO_Ant1_5550