FCC 5GWALN Test Data

FCC ID	**:**	**R66-HBR6303M**
Company:	**:**	**Hisense Broadband Multimedia Technologies Co.,Ltd**
EUT	**:**	**TV Stick, Smart TV Stick**
Model Number	**:**	**HBR6303M**
Reviewed By	**:**	**Eric Wang**

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	31.72	5165.24	5196.96	---	---
		5220	26.80	5206.60	5233.40	---	---
		5240	23.52	5227.92	5251.44	---	---
		5260	22.24	5248.48	5270.72	---	---
		5300	31.40	5283.84	5315.24	---	---
		5320	28.08	5305.52	5333.60	---	---
		5500	29.40	5485.88	5515.28	---	---
		5580	24.76	5567.44	5592.20	---	---
		5700	33.84	5680.76	5714.60	---	---
		5745	37.12	5726.20	5763.32	---	---
		5785	37.96	5765.84	5803.80	---	---
		5825	36.40	5806.52	5842.92	---	---
11N20SISO	Ant1	5180	33.56	5164.80	5198.36	---	---
		5220	24.00	5207.92	5231.92	---	---
		5240	21.80	5229.08	5250.88	---	---
		5260	22.08	5248.84	5270.92	---	---
		5300	31.64	5284.68	5316.32	---	---
		5320	29.40	5304.72	5334.12	---	---
		5500	30.12	5485.76	5515.88	---	---
		5580	26.68	5566.64	5593.32	---	---
		5700	36.68	5680.64	5717.32	---	---
		5745	34.52	5728.28	5762.80	---	---
		5785	38.88	5765.76	5804.64	---	---
		5825	33.44	5808.40	5841.84	---	---
11N40SISO	Ant1	5190	57.92	5165.12	5223.04	---	---
		5230	45.28	5209.20	5254.48	---	---
		5270	41.28	5249.28	5290.56	---	---
		5310	56.56	5278.80	5335.36	---	---
		5510	56.88	5483.36	5540.24	---	---
		5550	68.96	5513.68	5582.64	---	---
		5670	76.64	5630.32	5706.96	---	---
		5755	58.56	5732.84	5791.40	---	---
		5795	78.00	5755.56	5833.56	---	---
11AC20SISO	Ant1	5180	33.24	5165.48	5198.72	---	---
		5220	25.92	5206.88	5232.80	---	---
		5240	24.44	5228.32	5252.76	---	---
		5260	22.52	5248.48	5271.00	---	---

		5300	31.72	5284.52	5316.24	---	---
		5320	29.56	5304.48	5334.04	---	---
		5500	33.76	5485.24	5519.00	---	---
		5580	26.60	5566.40	5593.00	---	---
		5700	39.40	5680.32	5719.72	---	---
		5745	39.92	5725.04	5764.96	---	---
		5785	39.92	5765.04	5804.96	---	---
		5825	39.48	5805.04	5844.52	---	---
11AC40SISO	Ant1	5190	58.40	5164.80	5223.20	---	---
		5230	40.56	5209.76	5250.32	---	---
		5270	40.64	5249.68	5290.32	---	---
		5310	56.24	5278.64	5334.88	---	---
		5510	51.20	5485.20	5536.40	---	---
		5550	54.80	5519.92	5574.72	---	---
		5670	68.80	5634.96	5703.76	---	---
		5755	55.84	5732.44	5788.28	---	---
		5795	65.68	5759.96	5825.64	---	---
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		5290	109.12	5227.76	5336.88	---	---
		5530	110.24	5480.40	5590.64	---	---
		5775	147.68	5703.16	5850.84	---	---
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		5250_UNII-1	81.6	5168.40	5250	---	---
		5250_UNII-2A	89.92	5250	5339.92	---	---
		5570	173.12	5482.64	5655.76	---	---
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		5220	22.68	5208.92	5231.60	---	---
		5240	20.20	5229.72	5249.92	---	---
		5260	25.04	5246.24	5271.28	---	---
		5300	31.44	5284.28	5315.72	---	---
		5320	30.20	5304.28	5334.48	---	---
		5500	28.00	5486.52	5514.52	---	---
		5580	26.20	5566.92	5593.12	---	---
		5700	36.88	5680.48	5717.36	---	---
		5745	39.00	5725.08	5764.08	---	---
		5785	39.88	5765.04	5804.92	---	---
		5825	37.96	5806.20	5844.16	---	---
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		5270	39.84	5250.08	5289.92	---	---
		5310	54.48	5280.88	5335.36	---	---

		5510	52.96	5484.96	5537.92	---	---
		5550	41.04	5528.80	5569.84	---	---
		5670	72.48	5633.92	5706.40	---	---
		5755	62.00	5731.88	5793.88	---	---
		5795	67.52	5759.96	5827.48	---	---
11AX80SISO	Ant1	5210	108.32	5166.32	5274.64	---	---
		5290	92.32	5242.32	5334.64	---	---
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		5775	130.72	5695.32	5826.04	---	---
11AX160SISO	Ant1	5250	167.68	5168.72	5336.40	---	---
		5250_UNII-1	81.28	5168.72	5250	---	---
		5250_UNII-2A	86.4	5250	5336.40	---	---
		5570	171.20	5483.60	5654.80	---	---

Test Graphs

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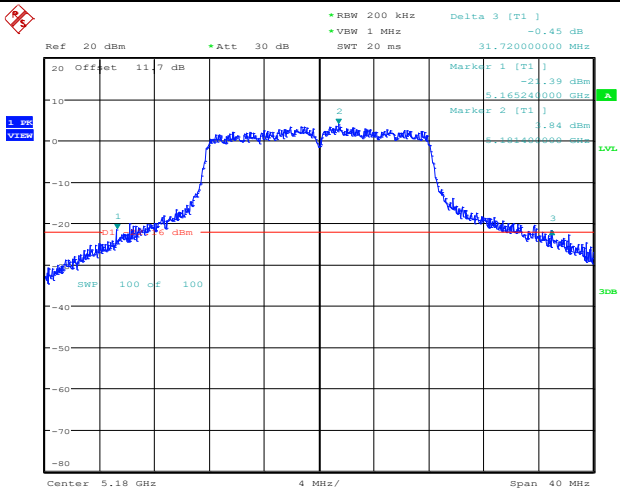

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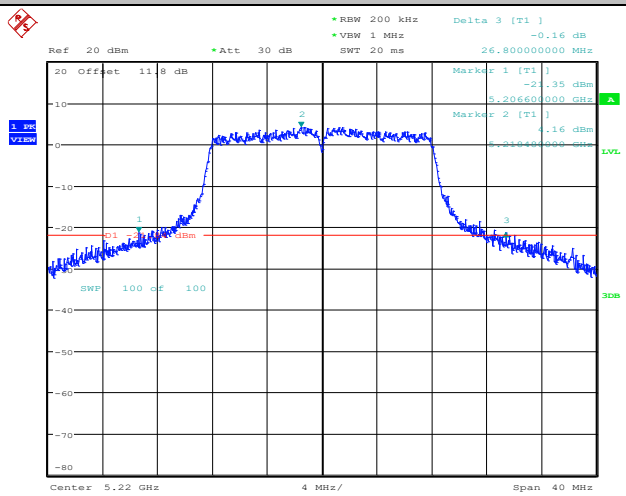

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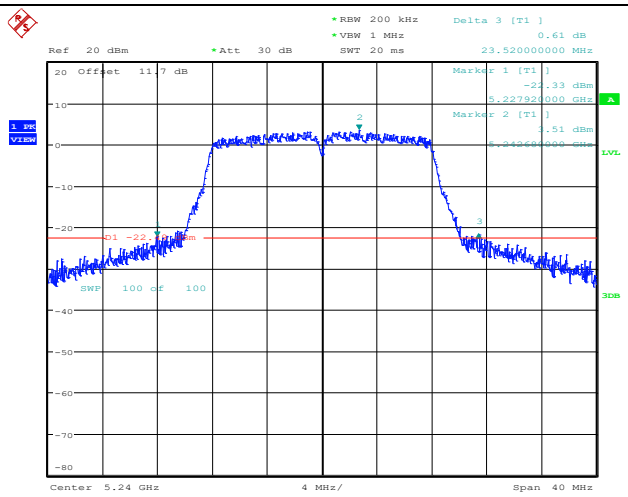

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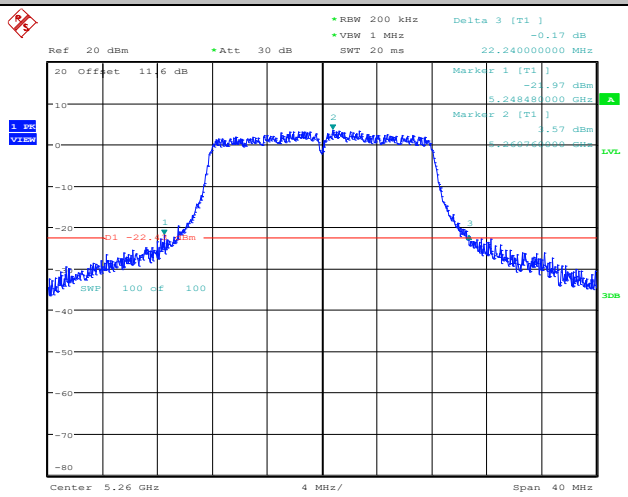

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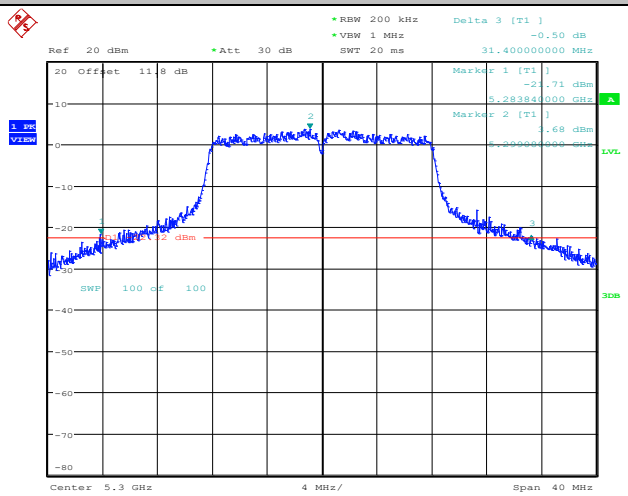

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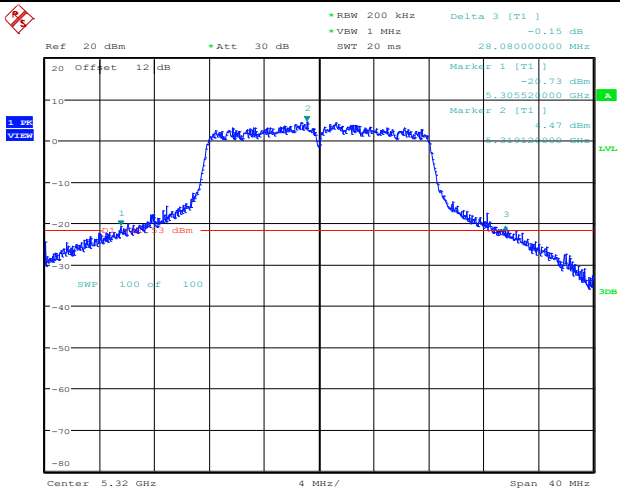

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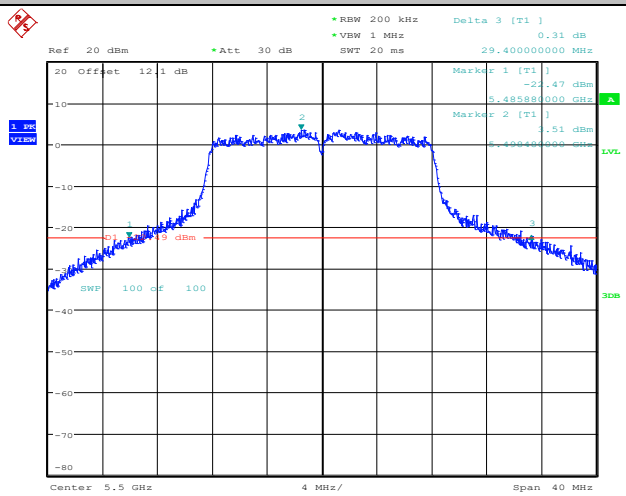

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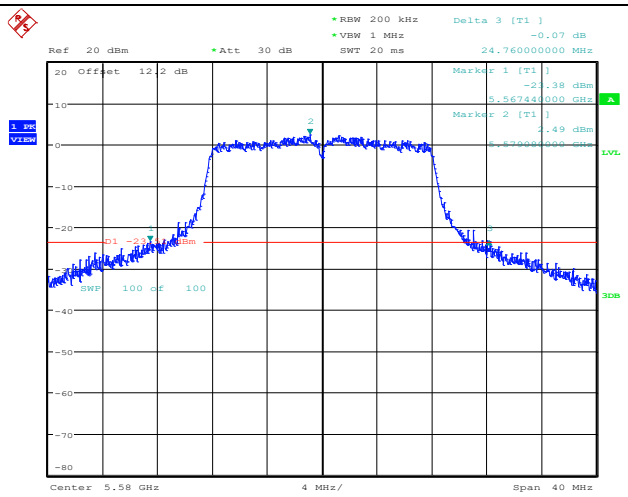

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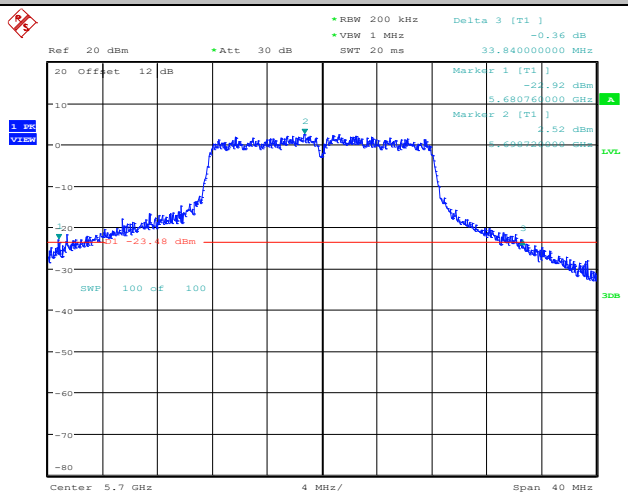

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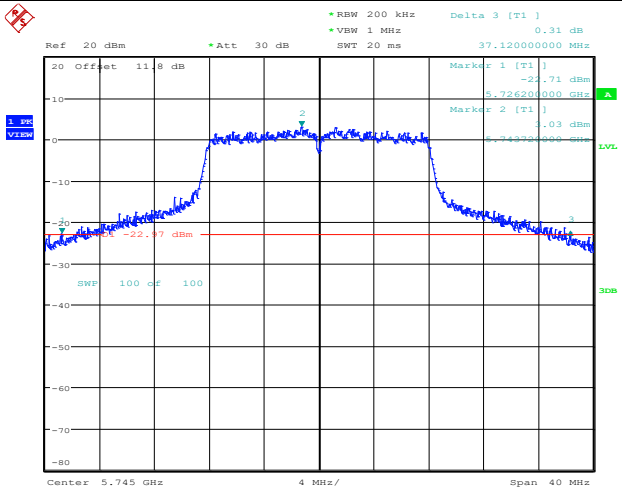

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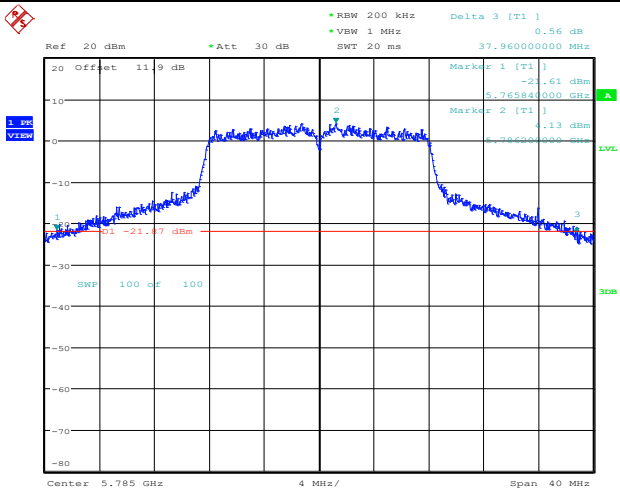

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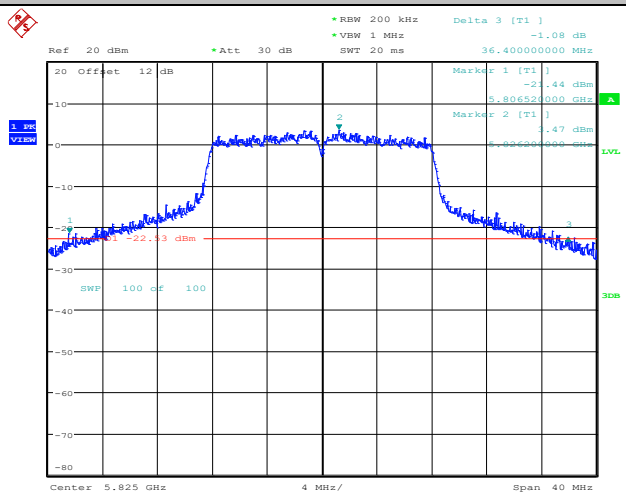

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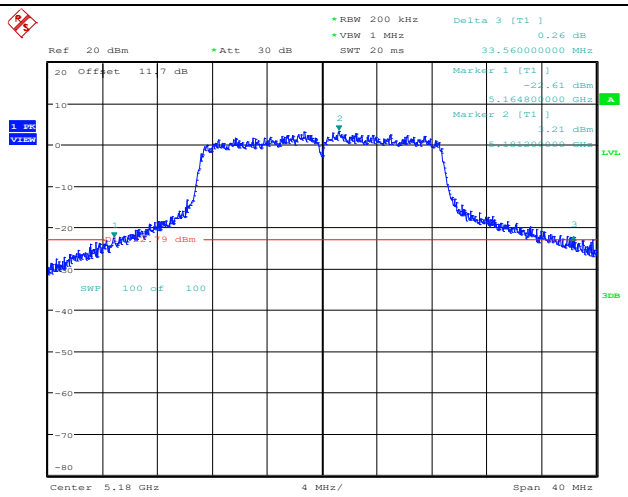

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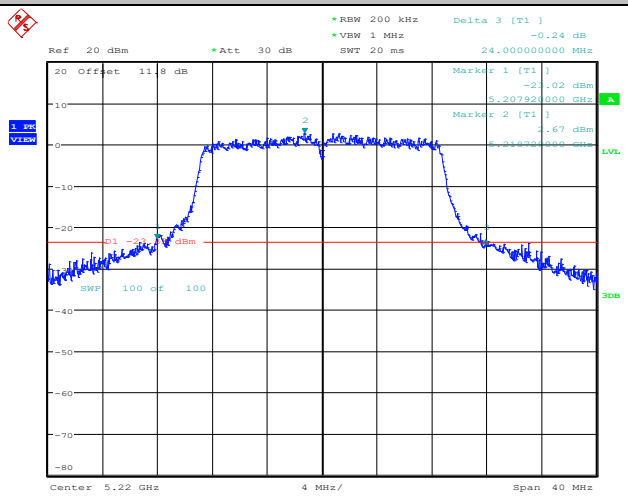

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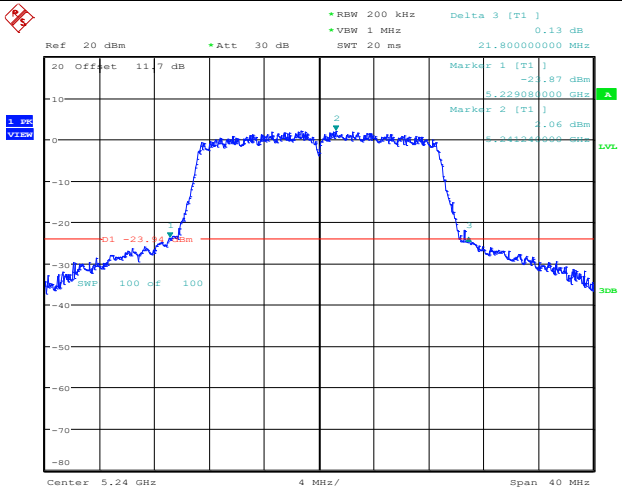

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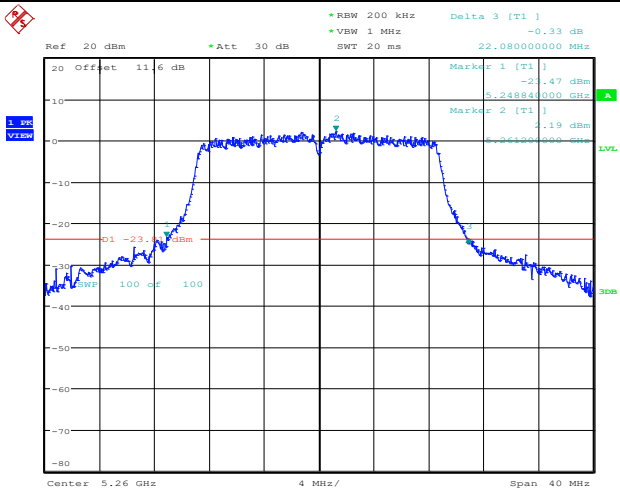

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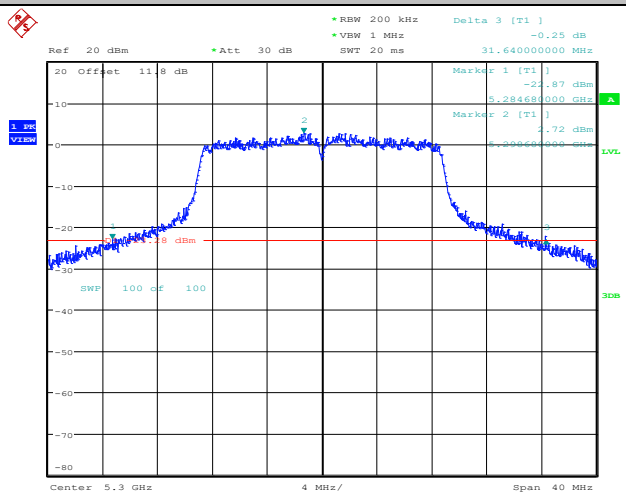

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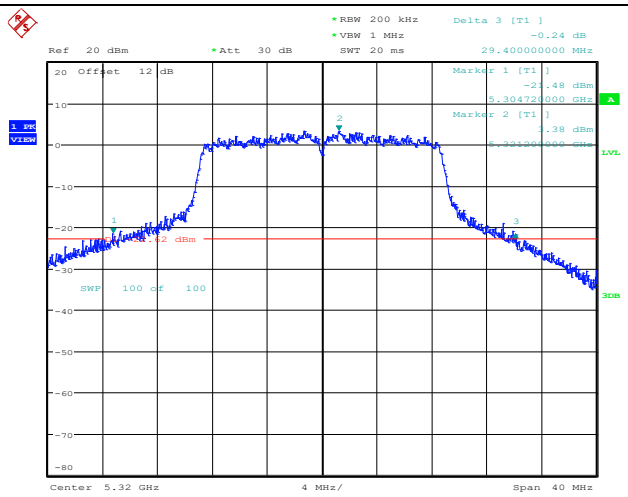

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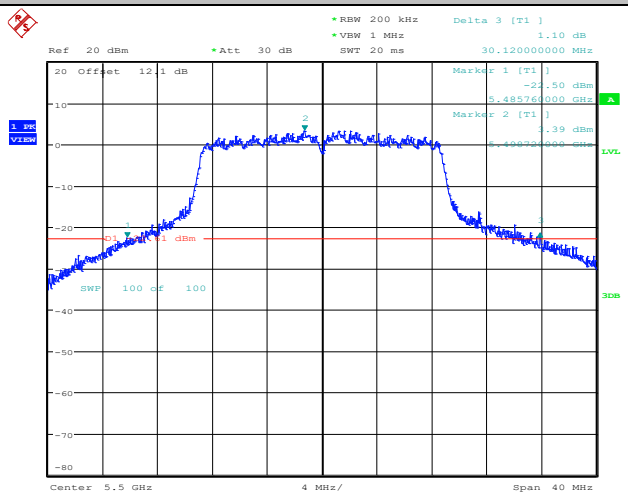

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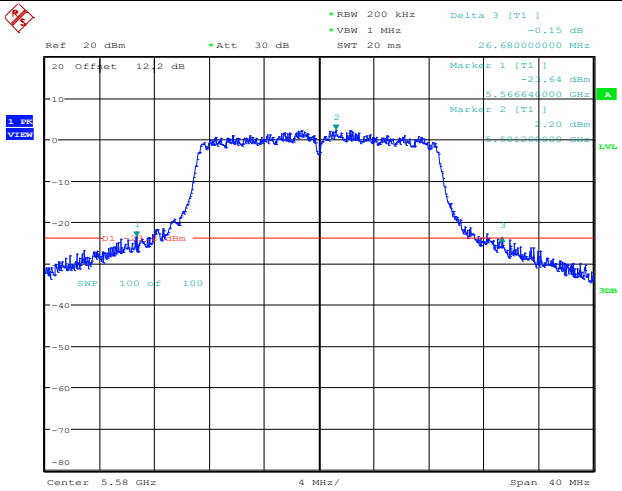

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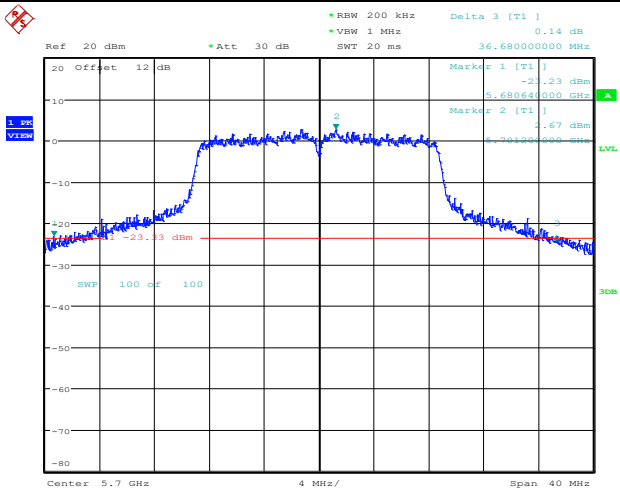

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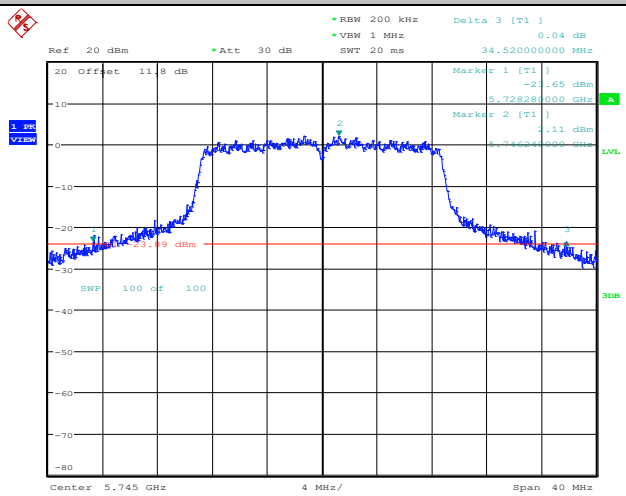

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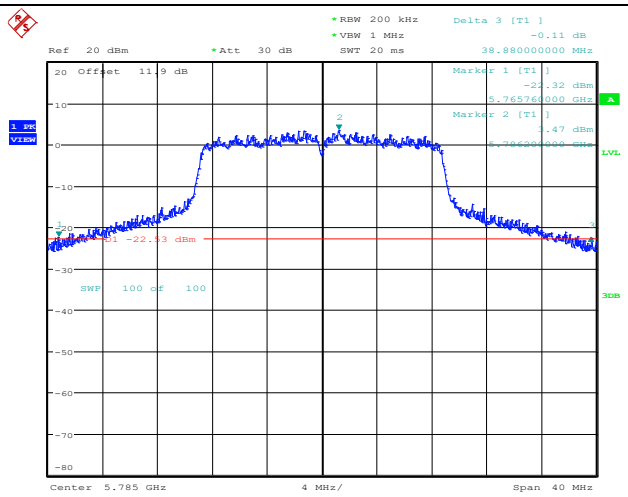

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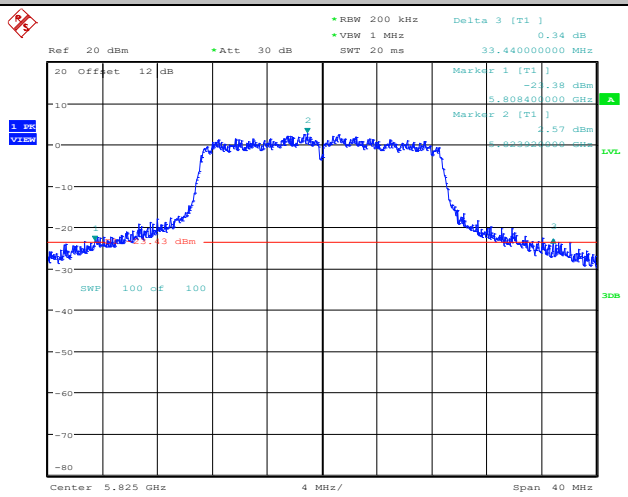

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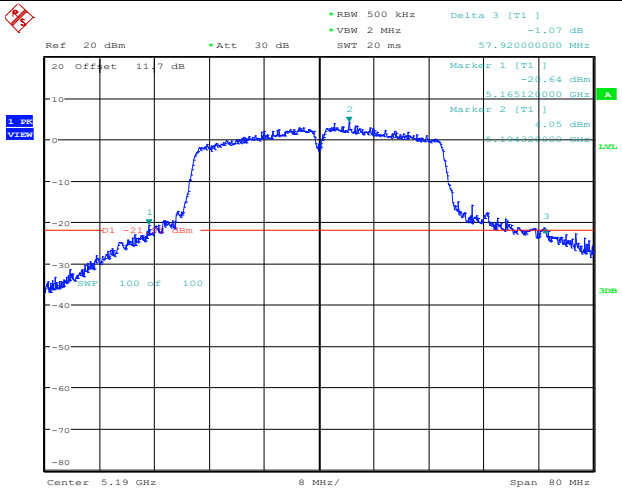

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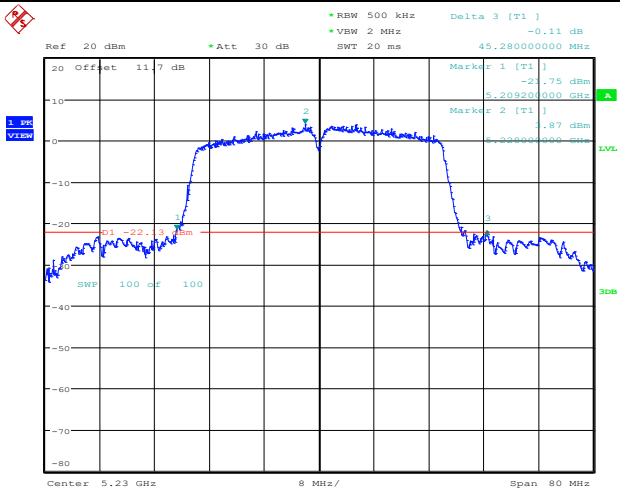

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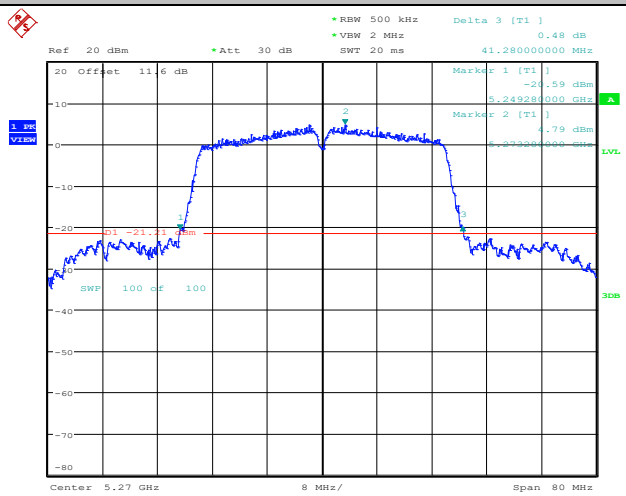

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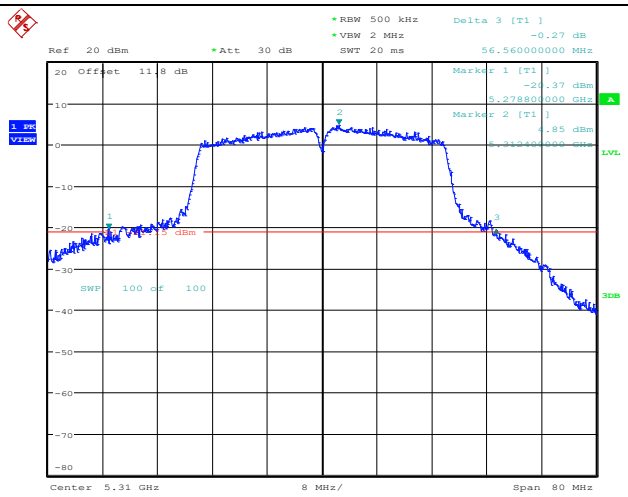

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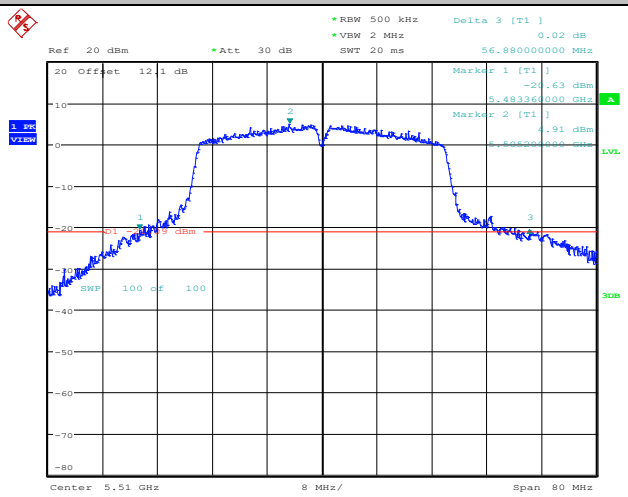

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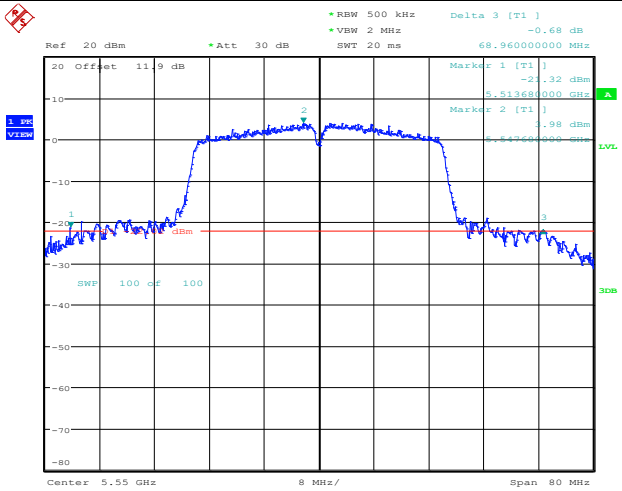

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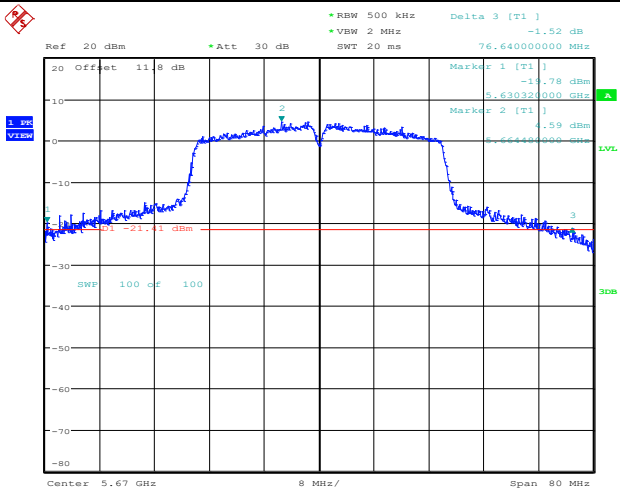

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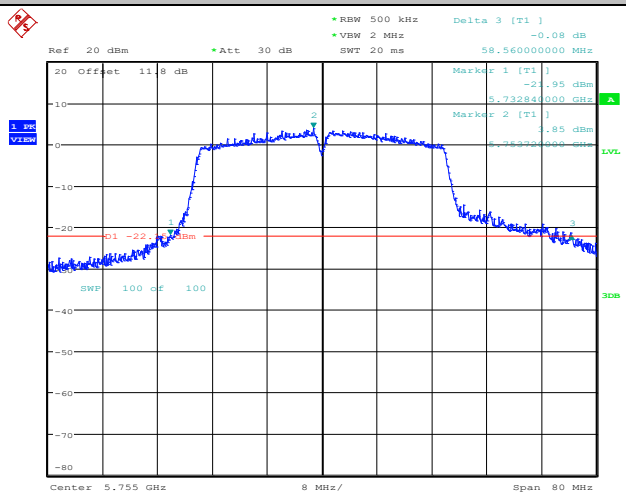

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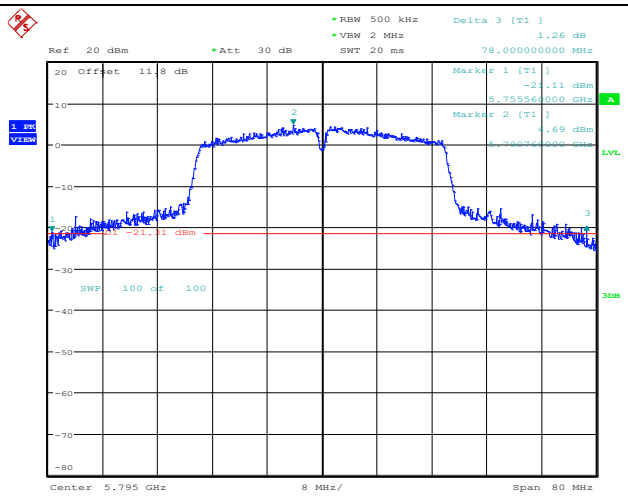

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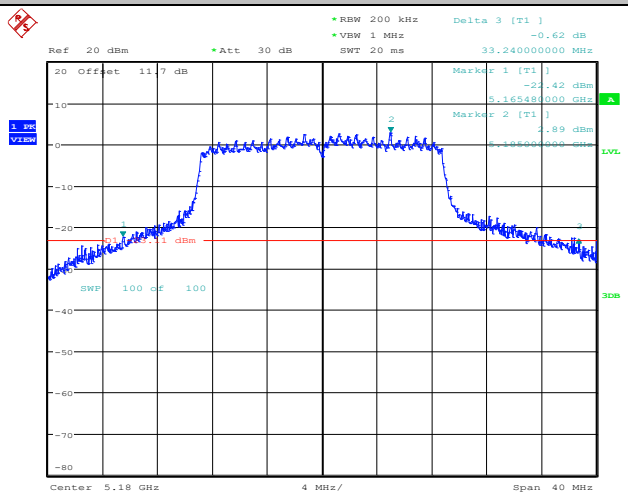

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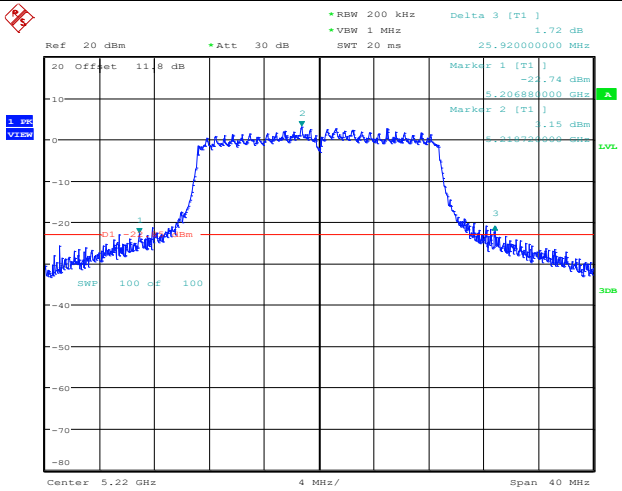

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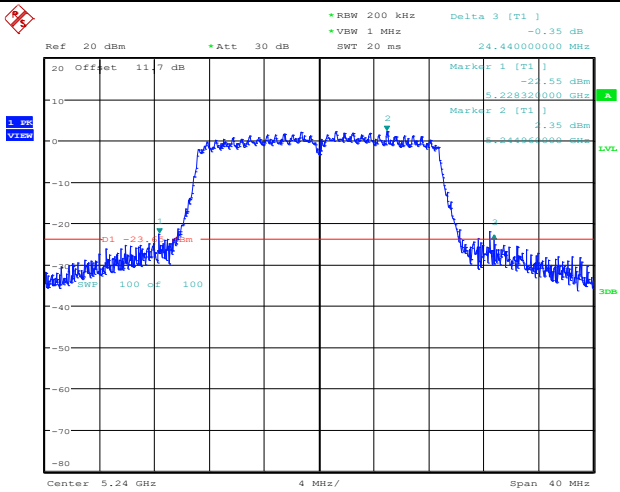

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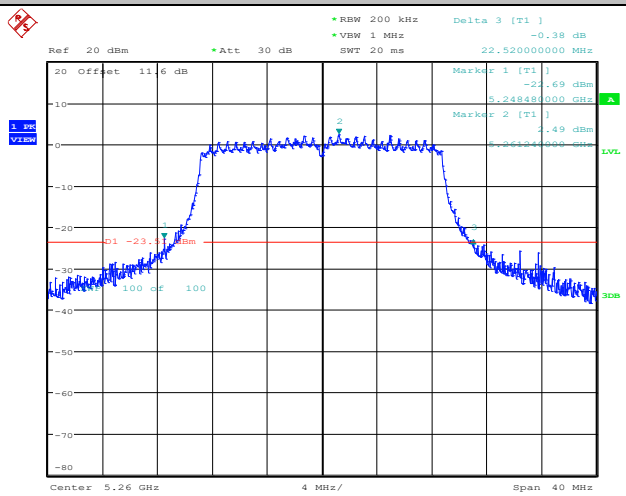

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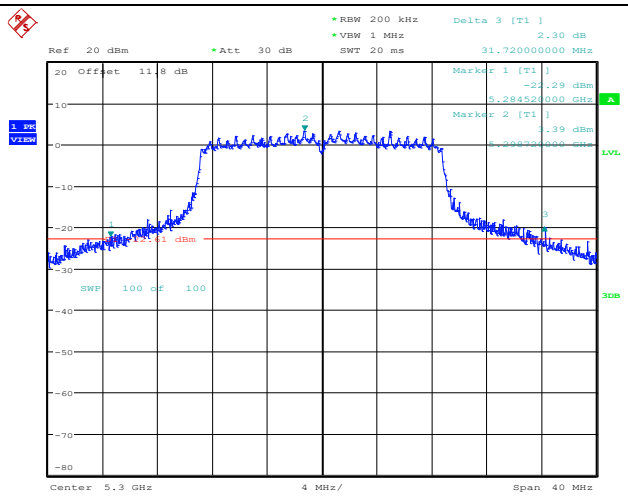

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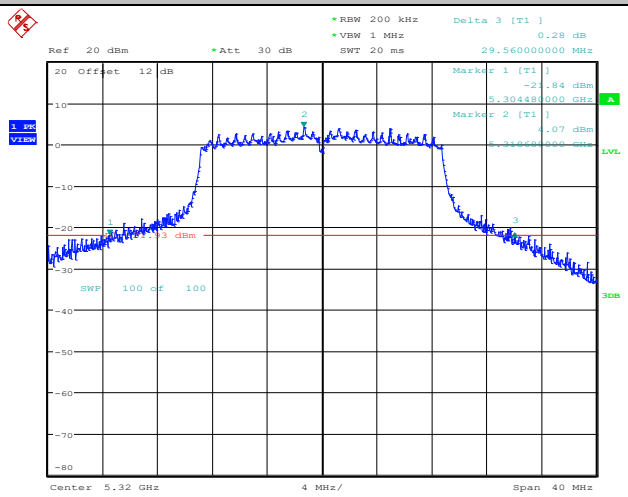

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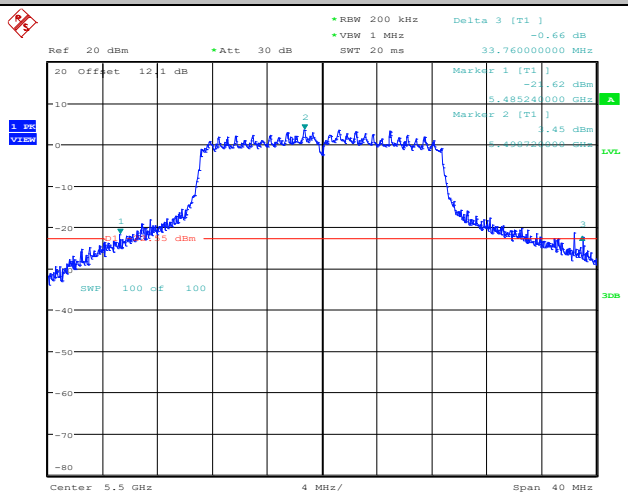

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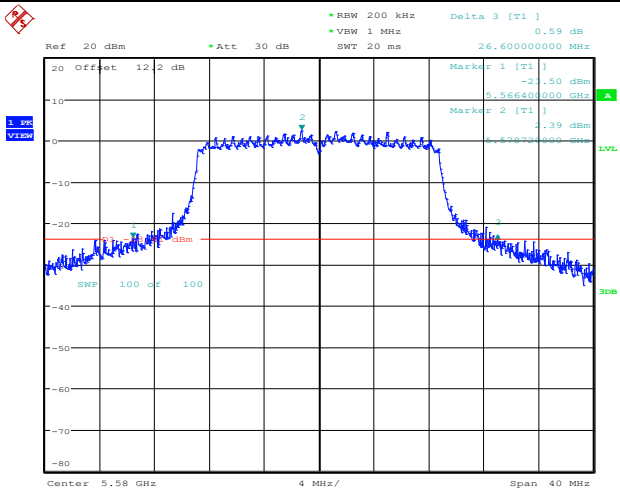

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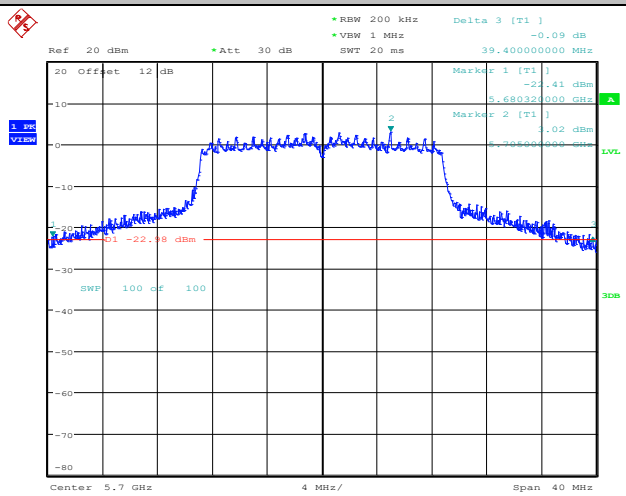

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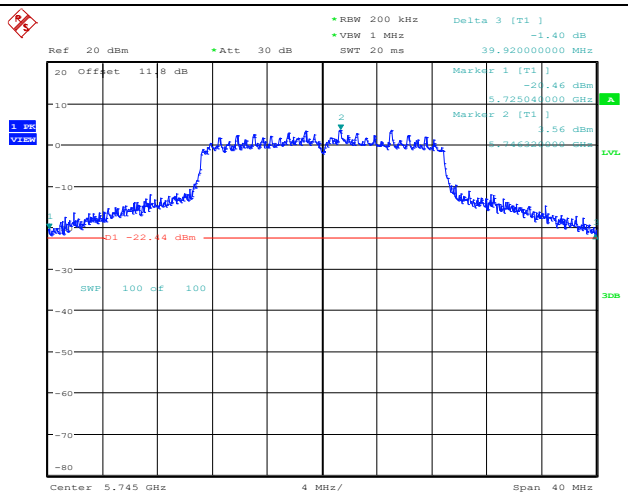

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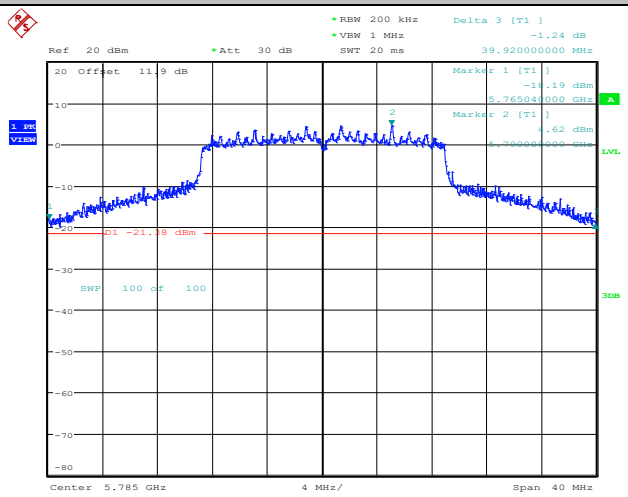

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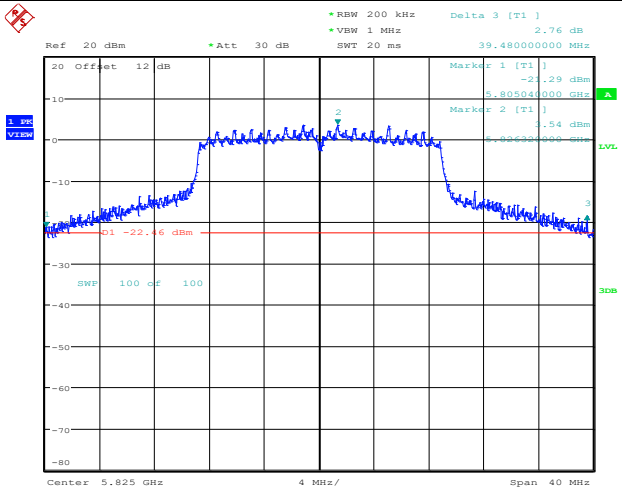

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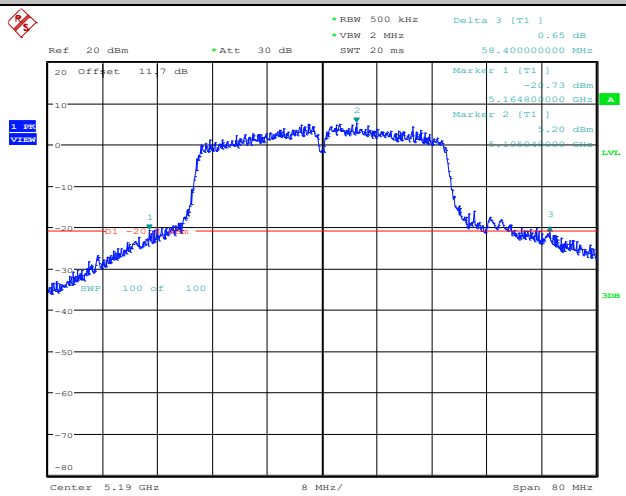

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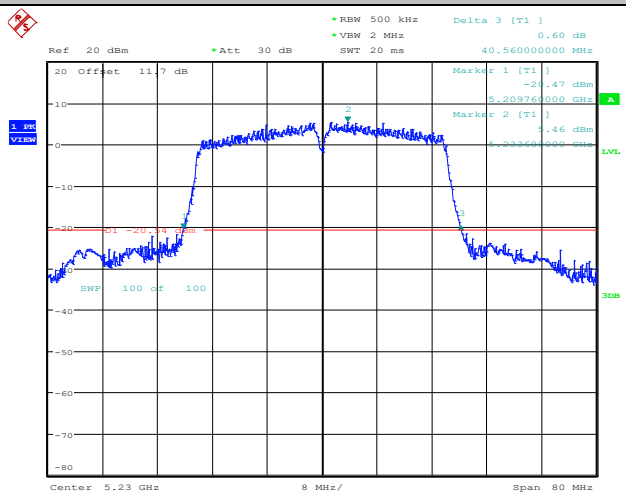

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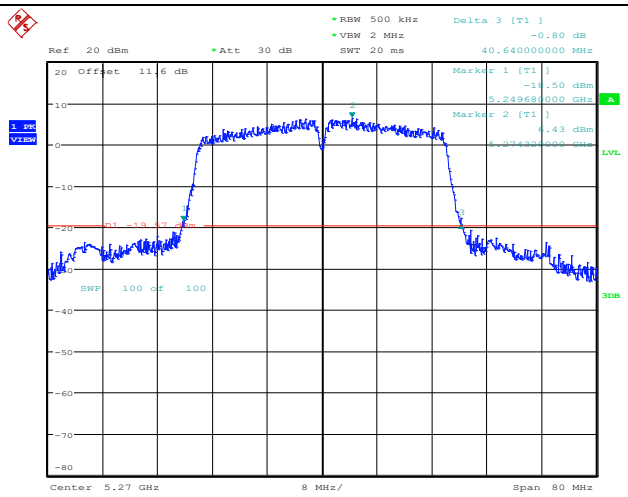

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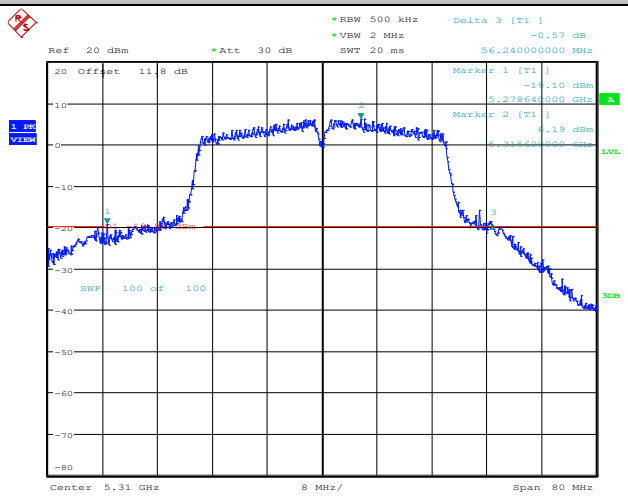

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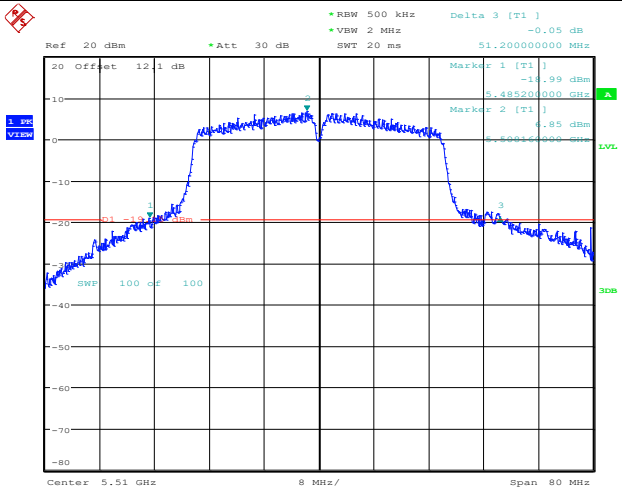

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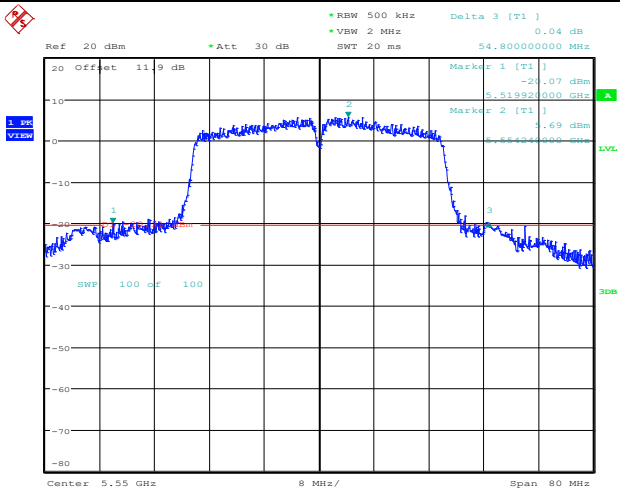

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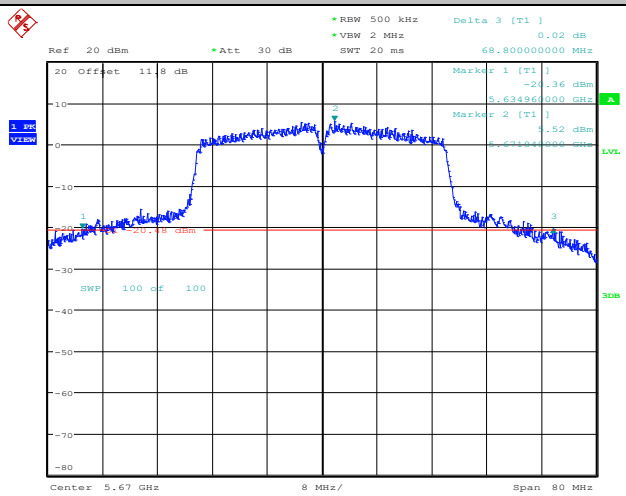

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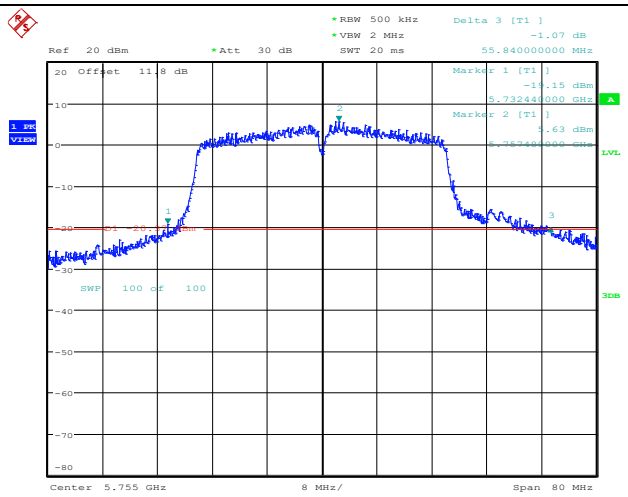

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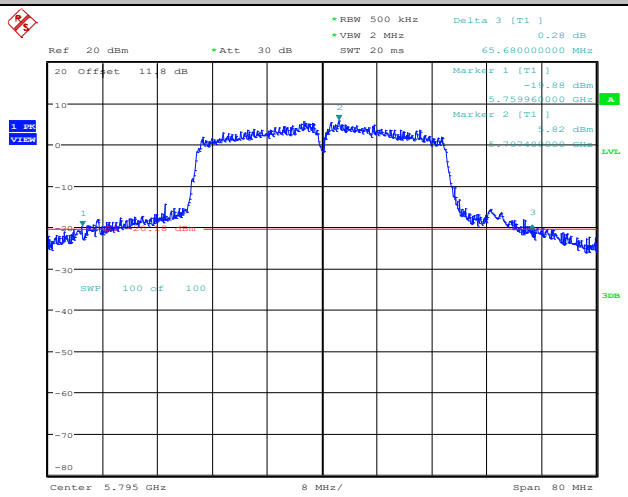

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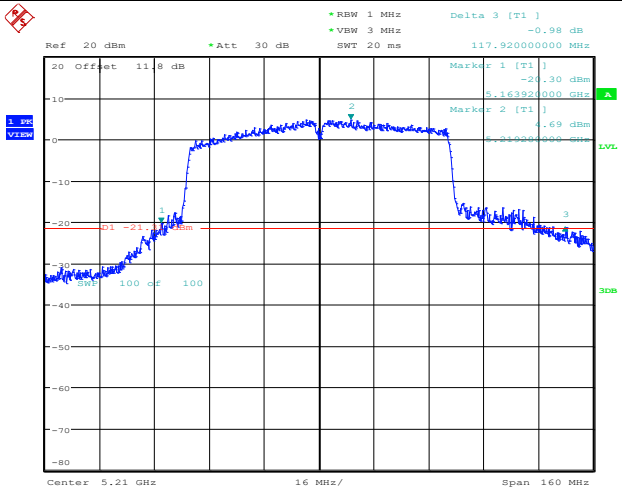

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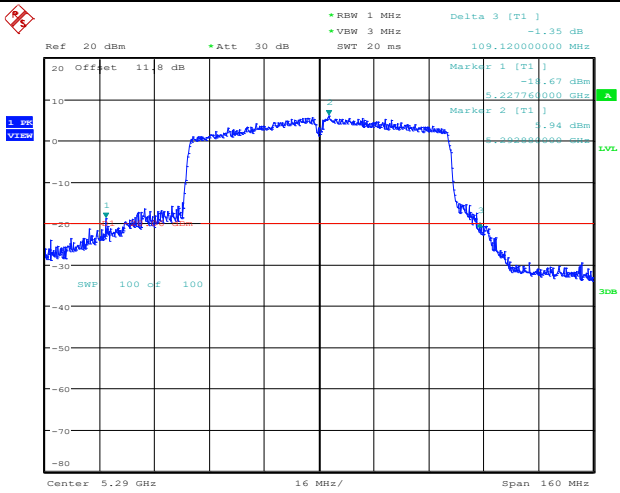

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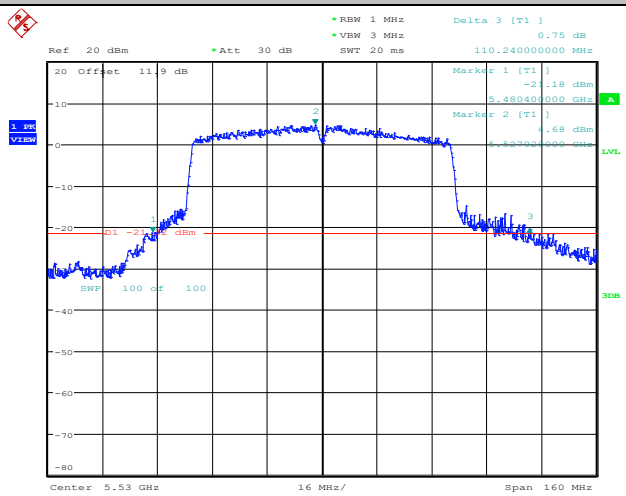

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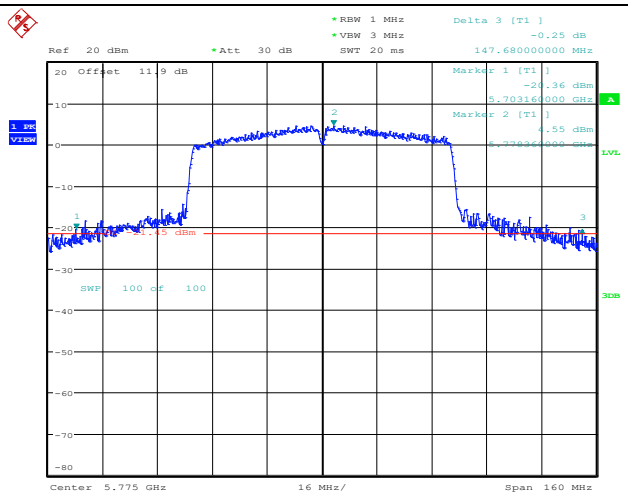

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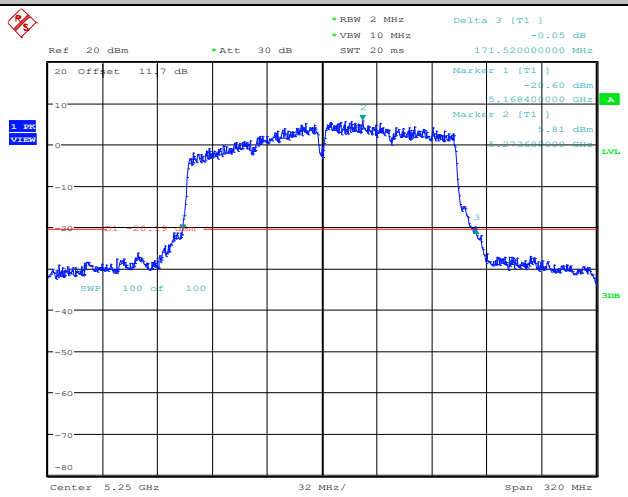

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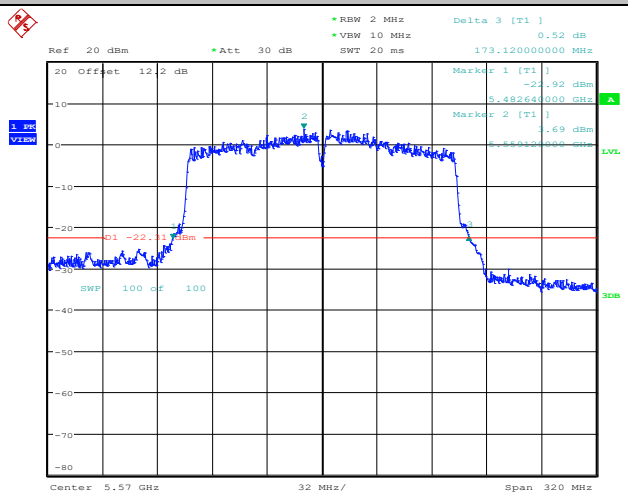

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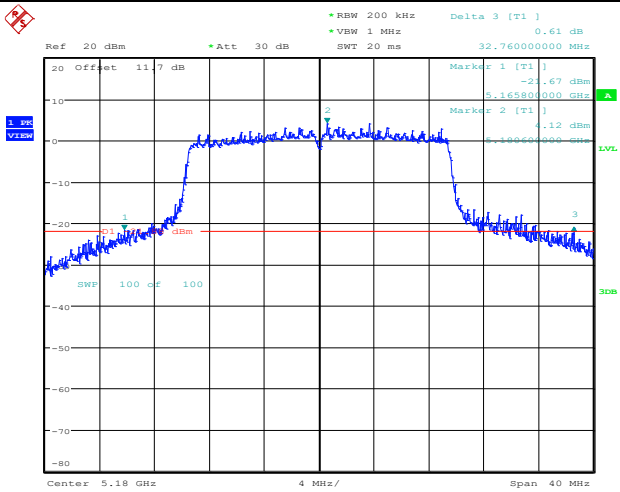

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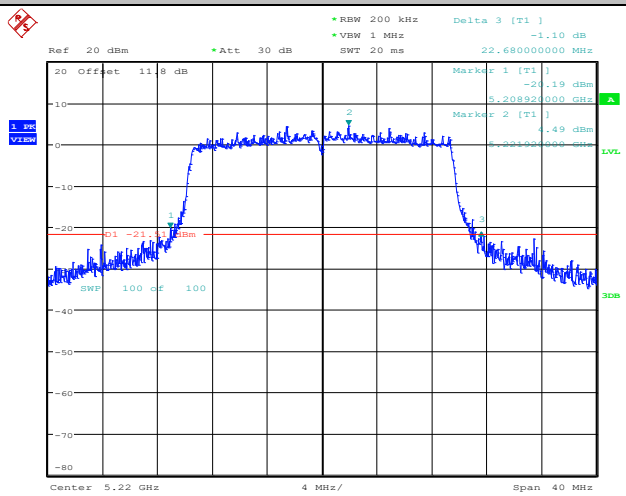

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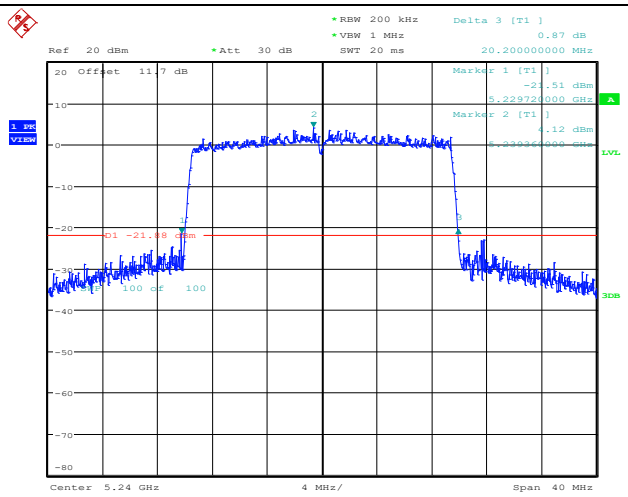

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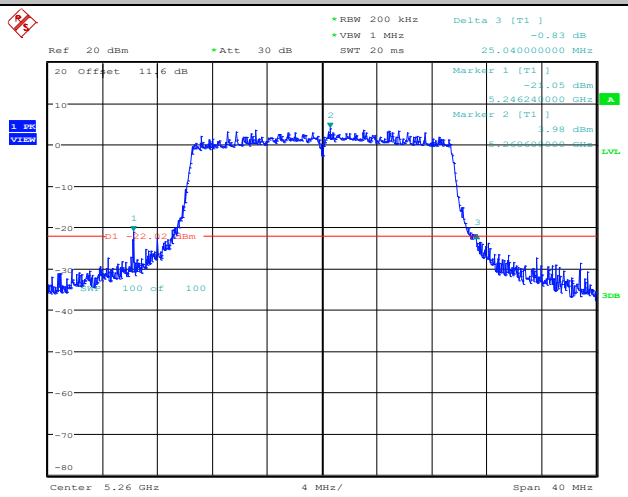

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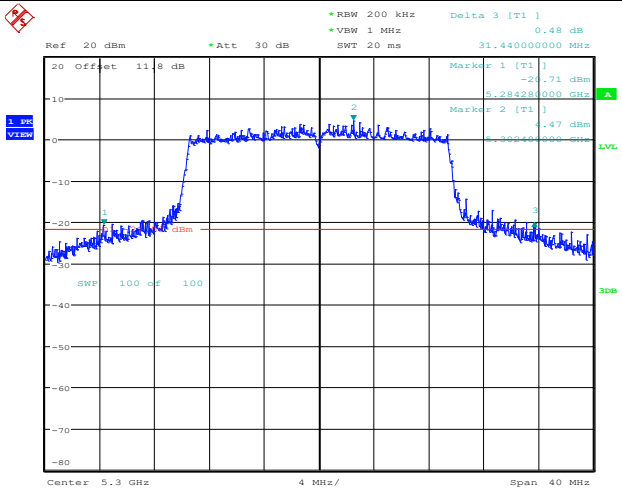

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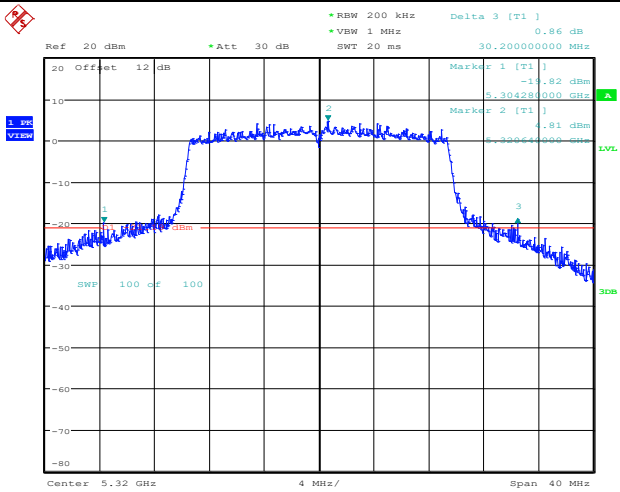

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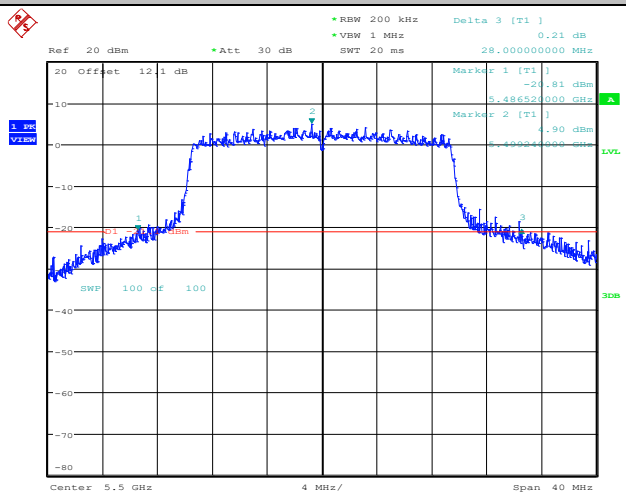

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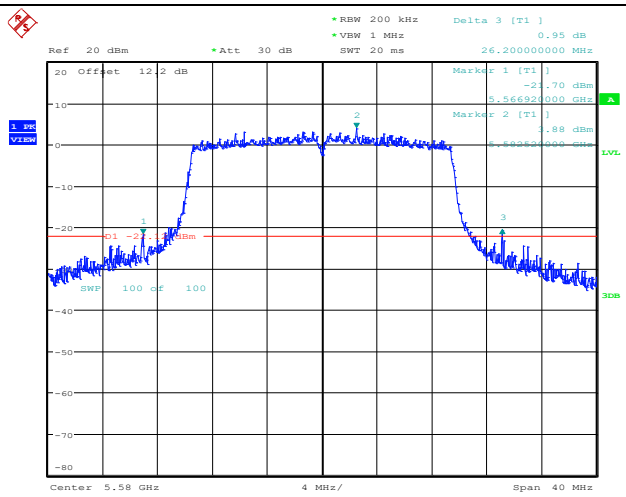

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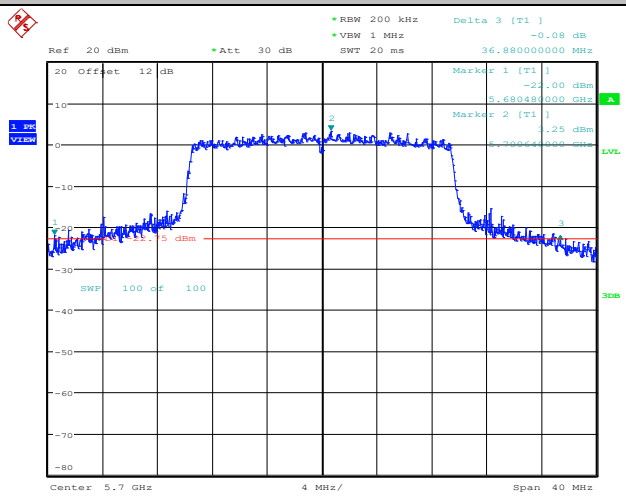

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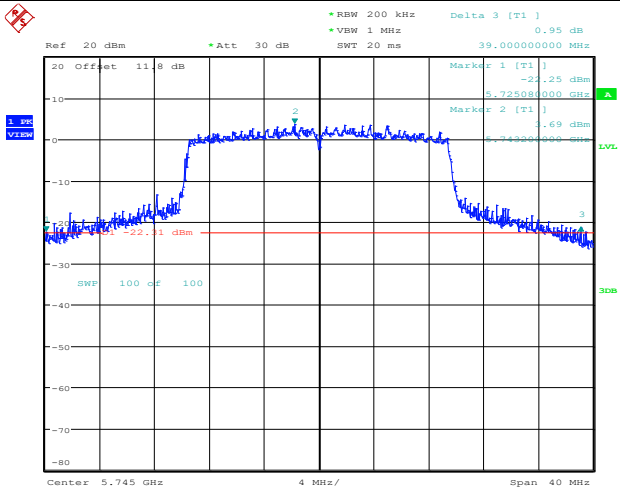

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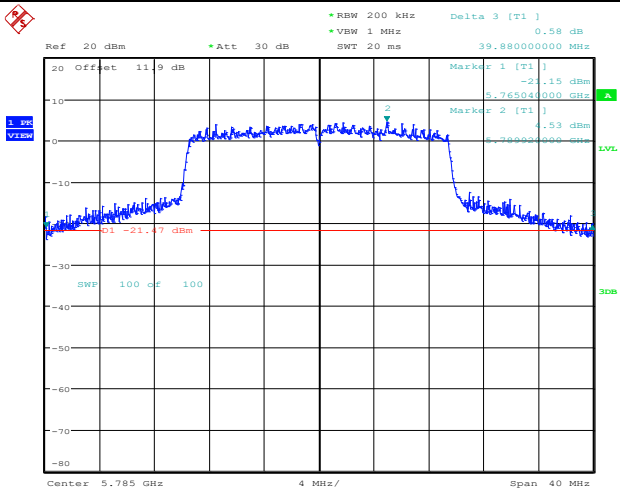

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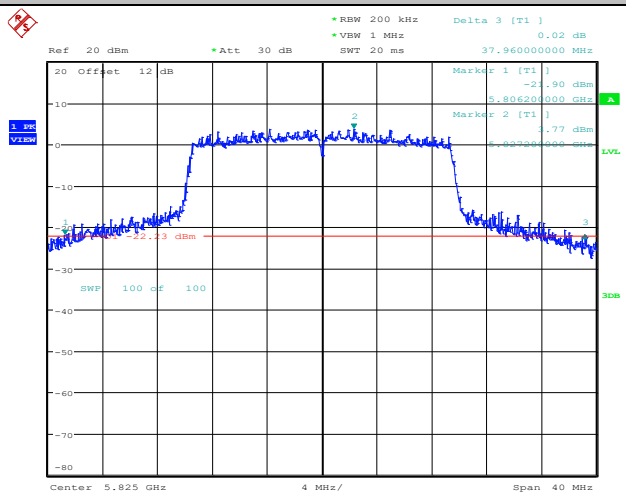

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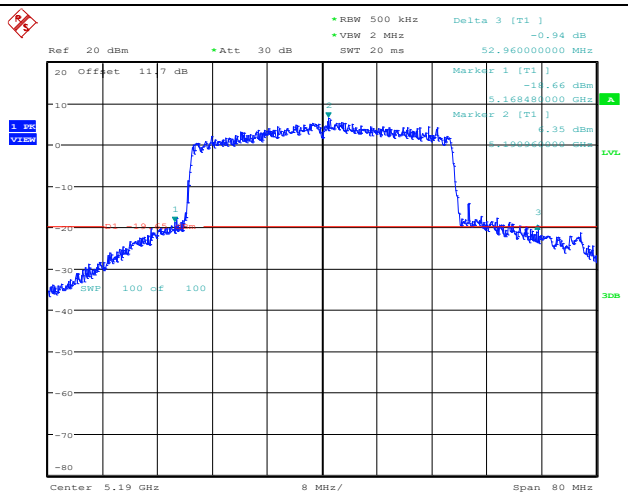

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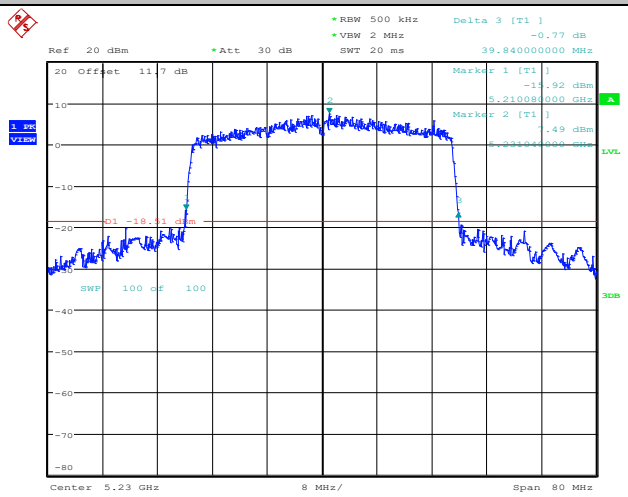

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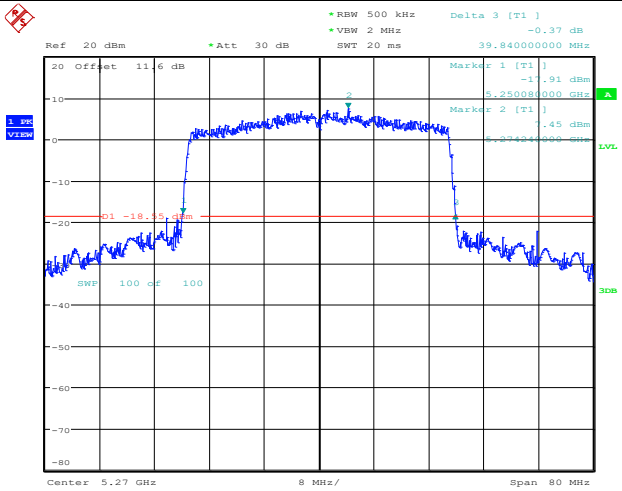

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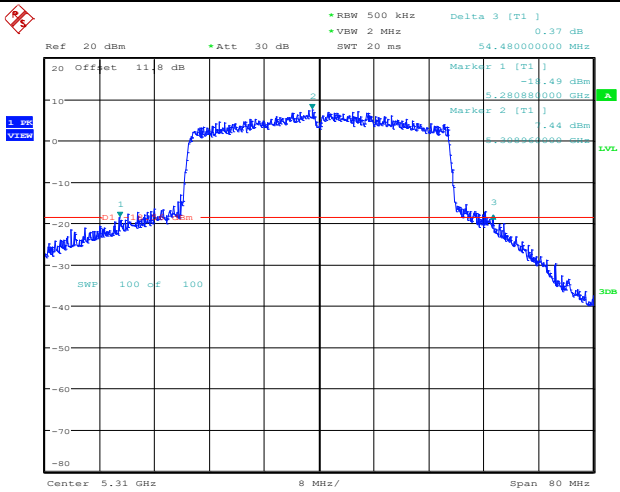

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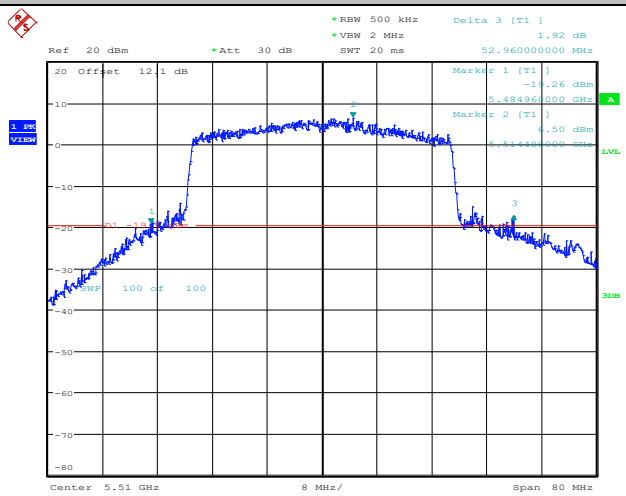

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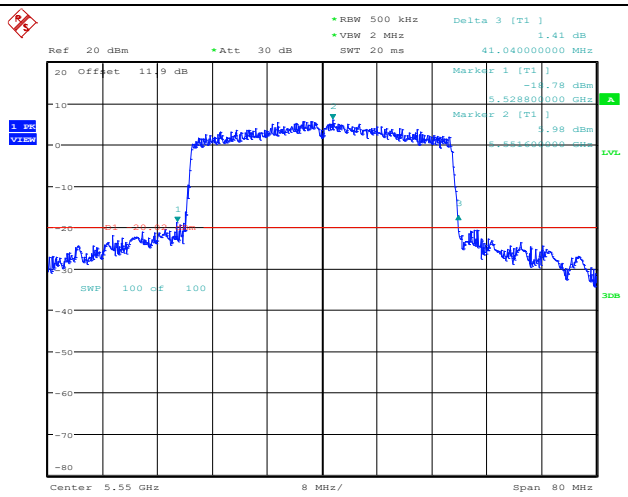

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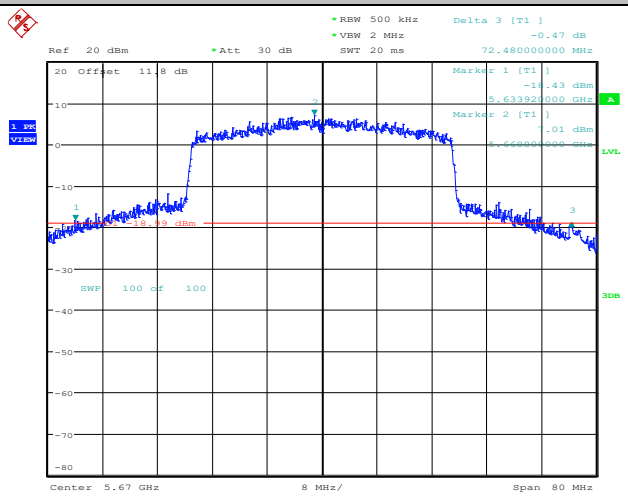

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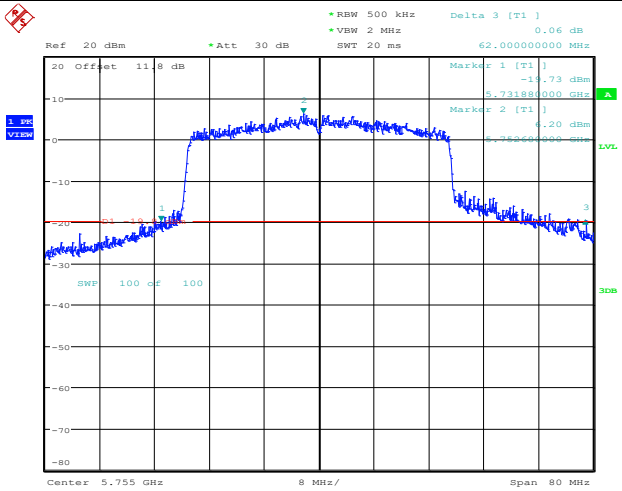

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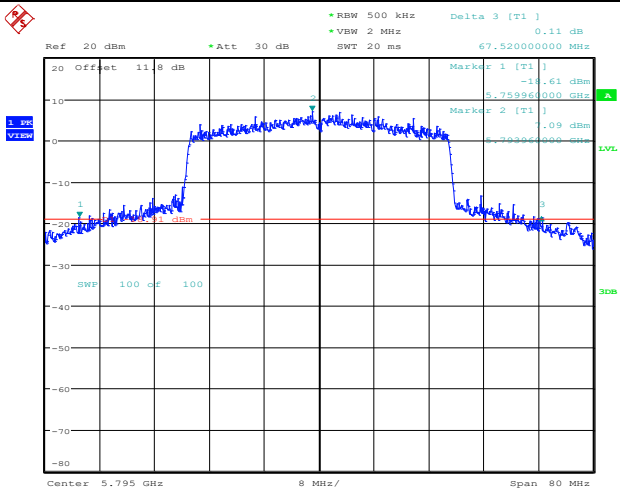

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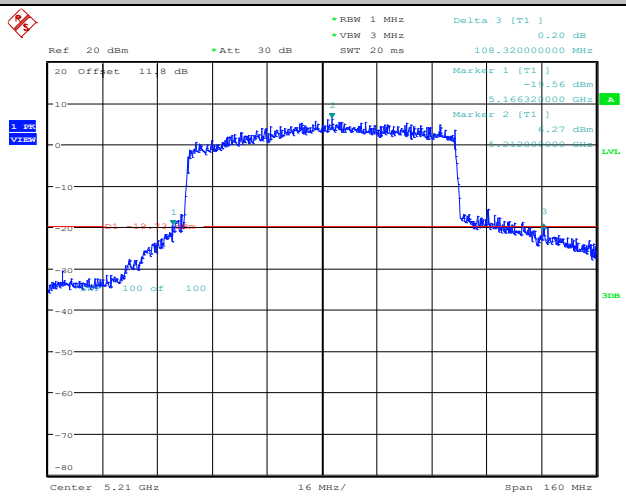

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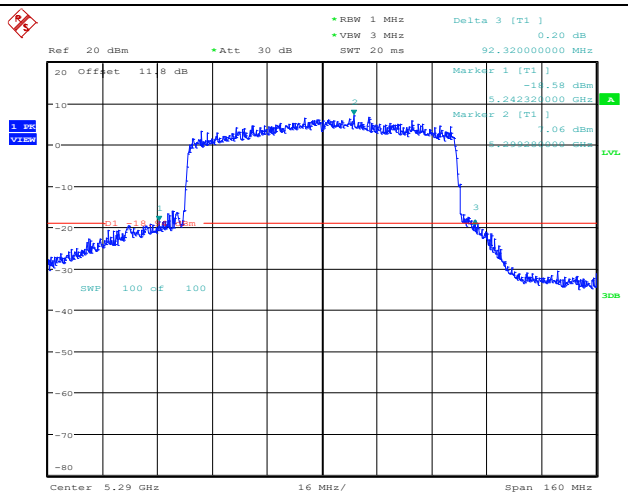
11AX80SISO_Ant1_5290



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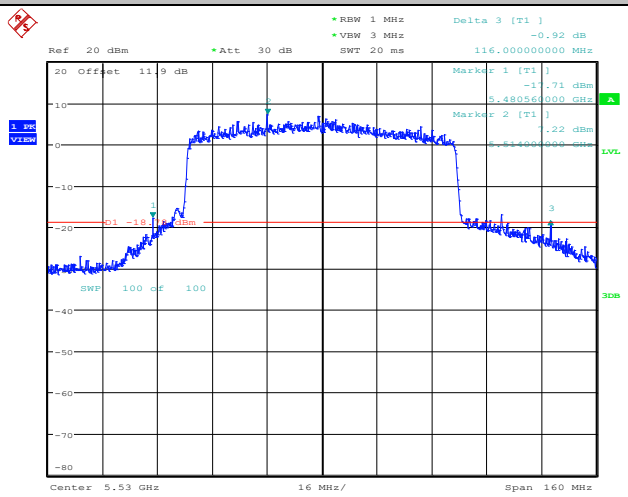

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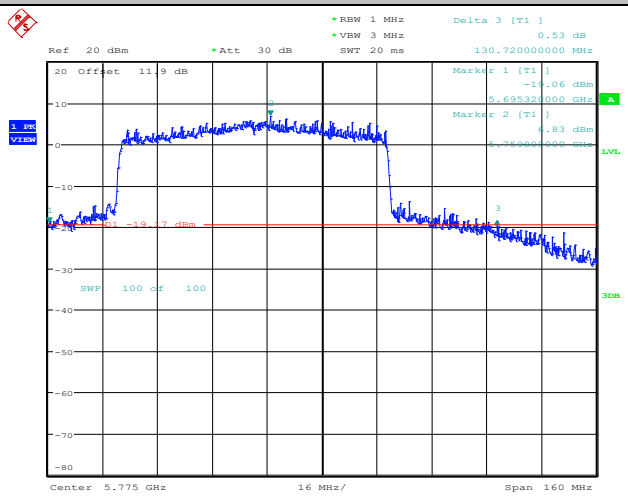

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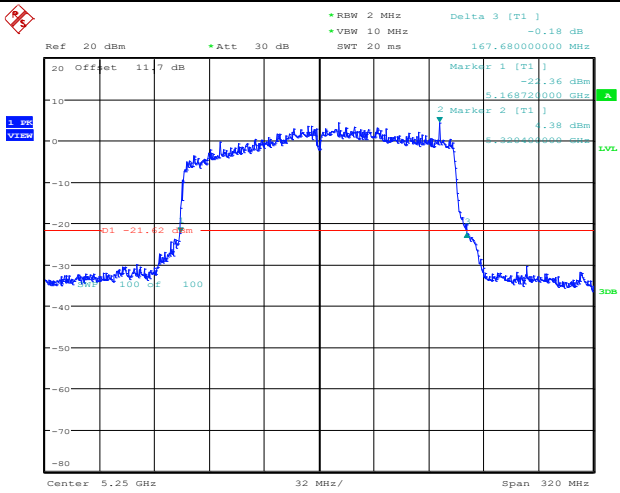

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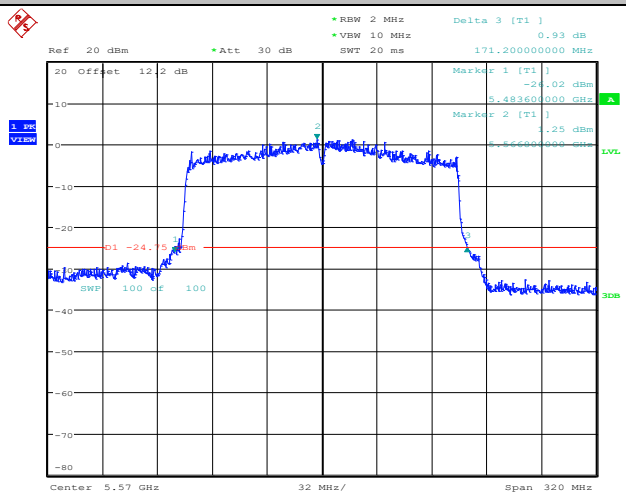

Date: 27.SEP.2024 17:15:40

Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.56	5171.2400	5188.8000	---	---
		5220	17.12	5211.4000	5228.5200	---	---
		5240	17.28	5231.3200	5248.6000	---	---
		5260	17.08	5251.4000	5268.4800	---	---
		5300	17.52	5291.2000	5308.7200	---	---
		5320	17.48	5311.2400	5328.7200	---	---
		5500	18.08	5490.9600	5509.0400	---	---
		5580	17.12	5571.4000	5588.5200	---	---
		5700	18.4	5690.3200	5708.7200	---	---
		5745	19.08	5735.4800	5754.5600	---	---
		5785	20.88	5774.5200	5795.4000	---	---
		5825	18.4	5815.5200	5833.9200	---	---
11N20SISO	Ant1	5180	18.84	5170.6800	5189.5200	---	---
		5220	18.32	5210.8400	5229.1600	---	---
		5240	18.12	5230.9200	5249.0400	---	---
		5260	18.16	5250.8800	5269.0400	---	---
		5300	18.6	5290.6800	5309.2800	---	---
		5320	18.52	5310.6400	5329.1600	---	---
		5500	18.44	5490.6800	5509.1200	---	---
		5580	18.36	5570.7200	5589.0800	---	---
		5700	19.32	5690.2000	5709.5200	---	---
		5745	18.76	5735.5600	5754.3200	---	---
		5785	19.96	5774.9200	5794.8800	---	---
		5825	18.64	5815.5600	5834.2000	---	---
11N40SISO	Ant1	5190	36.88	5171.6800	5208.5600	---	---
		5230	36.4	5211.8400	5248.2400	---	---
		5270	36.32	5251.8400	5288.1600	---	---
		5310	36.64	5291.6000	5328.2400	---	---
		5510	36.72	5491.5200	5528.2400	---	---
		5550	36.72	5531.5200	5568.2400	---	---
		5670	37.68	5650.9600	5688.6400	---	---
		5755	36.88	5736.6800	5773.5600	---	---
		5795	37.36	5776.2800	5813.6400	---	---
11AC20SISO	Ant1	5180	18.56	5170.8000	5189.3600	---	---
		5220	18.2	5210.8800	5229.0800	---	---
		5240	18	5230.9200	5248.9200	---	---
		5260	18	5250.9600	5268.9600	---	---

		5300	18.4	5290.7600	5309.1600	---	---
		5320	18.28	5310.7600	5329.0400	---	---
		5500	18.4	5490.7600	5509.1600	---	---
		5580	18.16	5570.8400	5589.0000	---	---
		5700	22.32	5688.5600	5710.8800	---	---
		5745	28.16	5731.0400	5759.2000	---	---
		5785	29.8	5770.1200	5799.9200	---	---
		5825	23.96	5812.8400	5836.8000	---	---
11AC40SISO	Ant1	5190	36.64	5171.7600	5208.4000	---	---
		5230	36.32	5211.9200	5248.2400	---	---
		5270	36.48	5251.7600	5288.2400	---	---
		5310	36.64	5291.6000	5328.2400	---	---
		5510	36.8	5491.5200	5528.3200	---	---
		5550	36.64	5531.6000	5568.2400	---	---
		5670	37.28	5651.1200	5688.4000	---	---
		5755	37.28	5736.6000	5773.8800	---	---
		5795	37.12	5776.3600	5813.4800	---	---
11AC80SISO	Ant1	5210	76.16	5172.2400	5248.4000	---	---
		5290	76	5251.9200	5327.9200	---	---
		5530	76.32	5491.6000	5567.9200	---	---
		5775	76.48	5736.7600	5813.2400	---	---
11AC160SISO	Ant1	5250	154.56	5174.1600	5328.7200	---	---
		5250_UNII-1	75.84	5174.1600	5250	---	---
		5250_UNII-2A	78.72	5250	5328.7200	---	---
		5570	155.84	5491.9200	5647.7600	---	---
11AX20SISO	Ant1	5180	19.32	5170.3600	5189.6800	---	---
		5220	19.12	5210.4000	5229.5200	---	---
		5240	19.04	5230.4400	5249.4800	---	---
		5260	19.12	5250.4000	5269.5200	---	---
		5300	19.28	5290.3200	5309.6000	---	---
		5320	19.32	5310.2400	5329.5600	---	---
		5500	19.28	5490.3200	5509.6000	---	---
		5580	19.16	5570.3600	5589.5200	---	---
		5700	19.4	5690.2000	5709.6000	---	---
		5745	19.56	5735.1600	5754.7200	---	---
		5785	20.2	5774.8400	5795.0400	---	---
		5825	19.48	5815.1600	5834.6400	---	---
11AX40SISO	Ant1	5190	38	5171.1200	5209.1200	---	---
		5230	37.84	5211.2000	5249.0400	---	---
		5270	37.76	5251.1200	5288.8800	---	---
		5310	38	5290.8800	5328.8800	---	---

		5510	38.08	5490.8800	5528.9600	---	---
		5550	37.92	5530.9600	5568.8800	---	---
		5670	38.88	5650.3200	5689.2000	---	---
		5755	38.56	5735.8800	5774.4400	---	---
		5795	38.56	5775.6400	5814.2000	---	---
11AX80SISO	Ant1	5210	77.44	5171.6000	5249.0400	---	---
		5290	77.44	5251.4400	5328.8800	---	---
		5530	77.6	5491.1200	5568.7200	---	---
		5775	78.08	5716.1200	5794.2000	---	---
11AX160SISO	Ant1	5250	156.16	5173.2000	5329.3600	---	---
		5250_UNII-1	76.8	5173.2000	5250	---	---
		5250_UNII-2A	79.36	5250	5329.3600	---	---
		5570	157.12	5491.2800	5648.4000	---	---

Test Graphs

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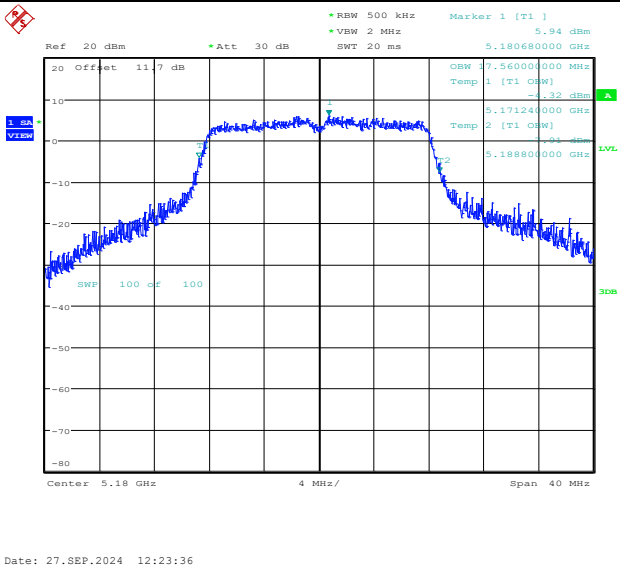

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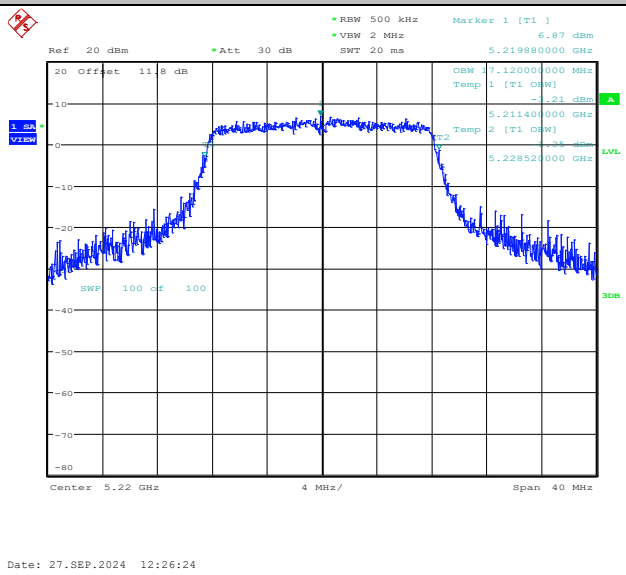

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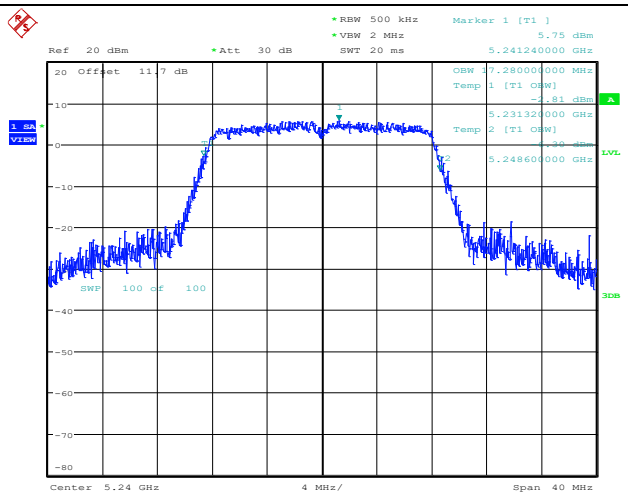

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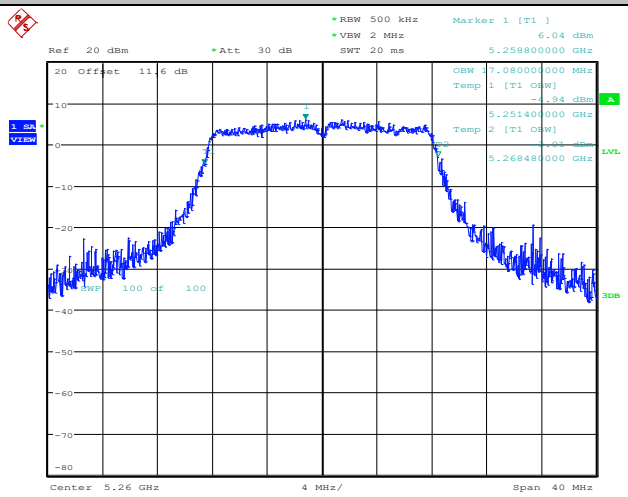

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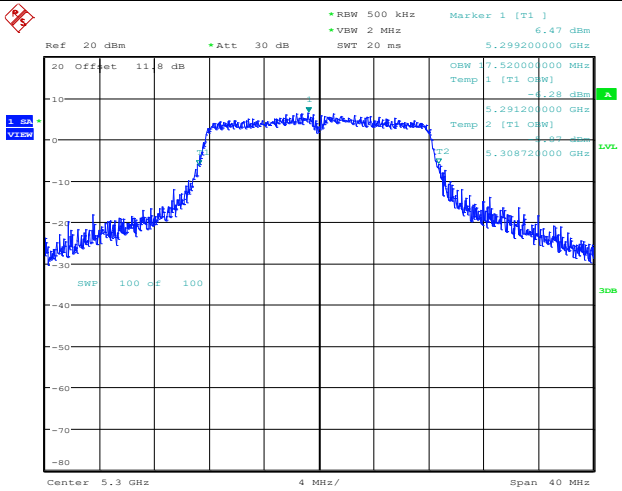

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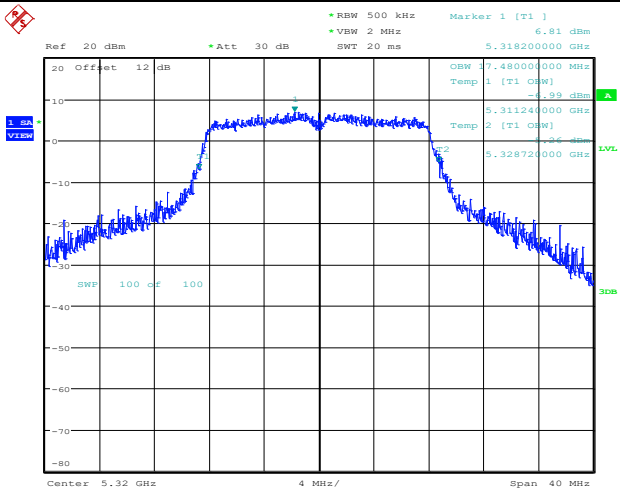

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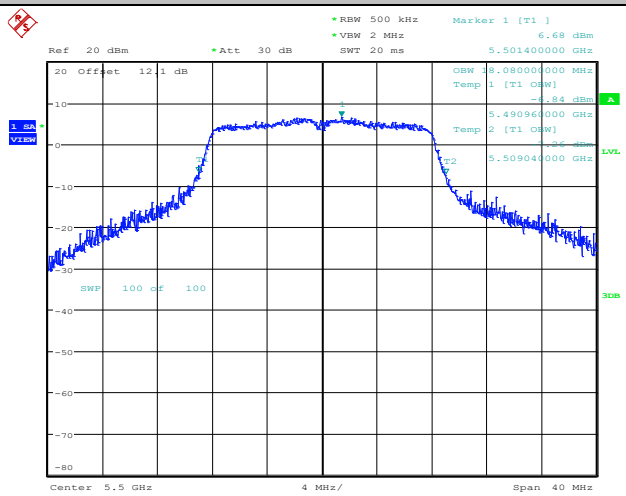

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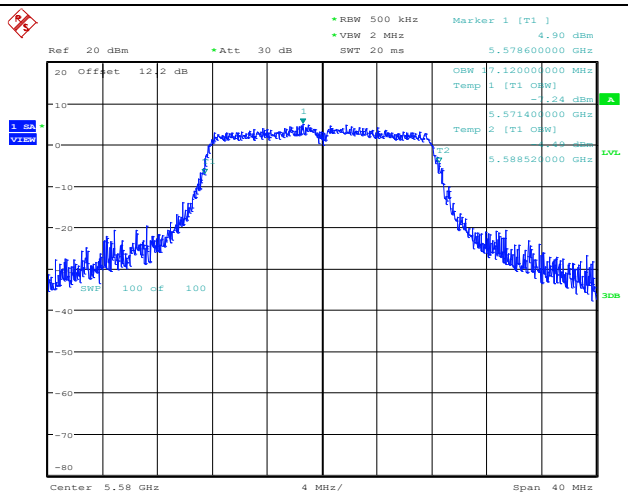

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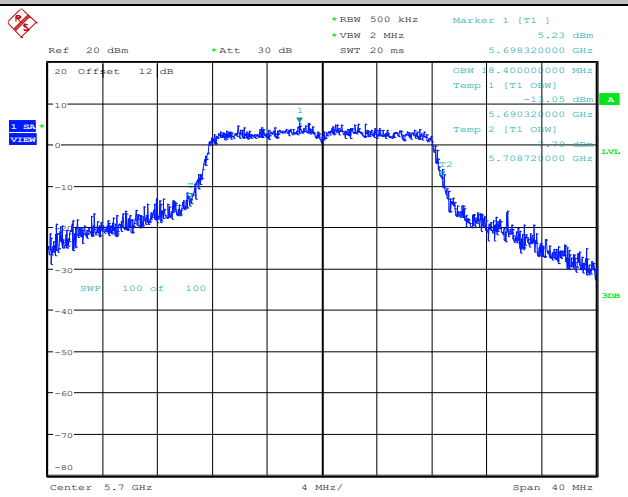

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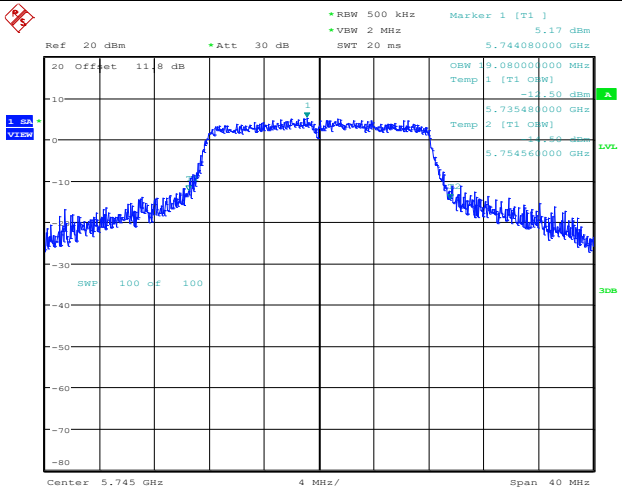

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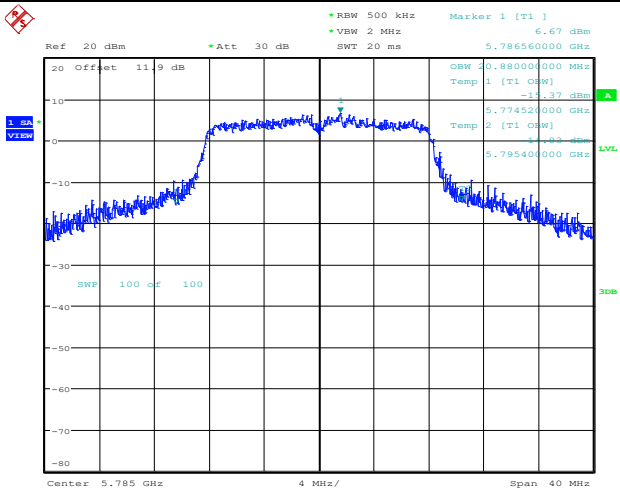

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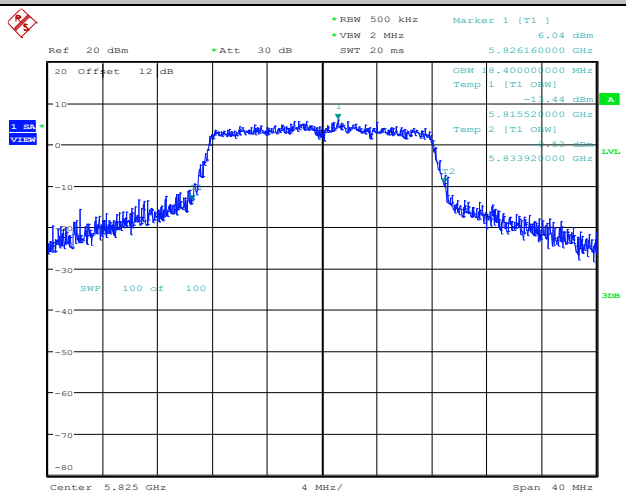

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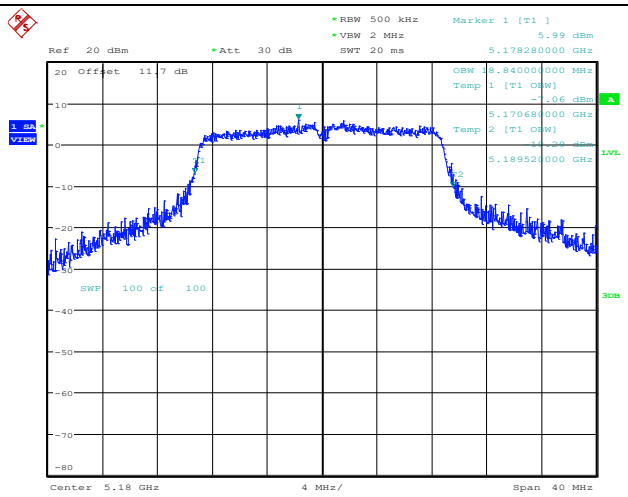

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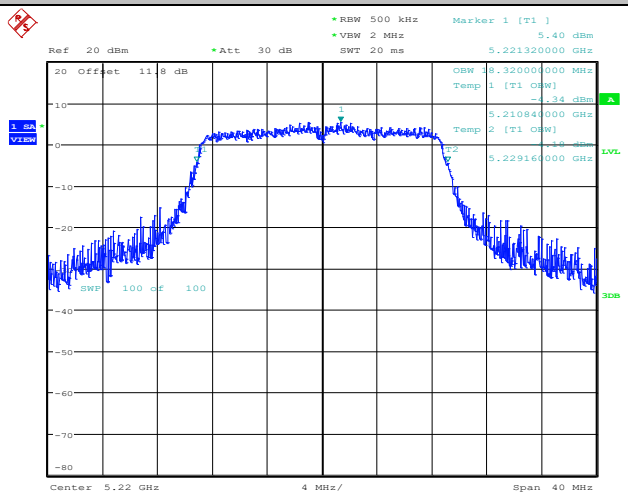

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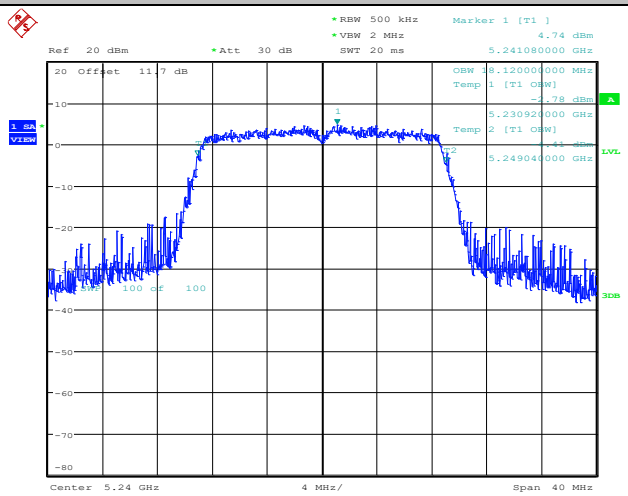

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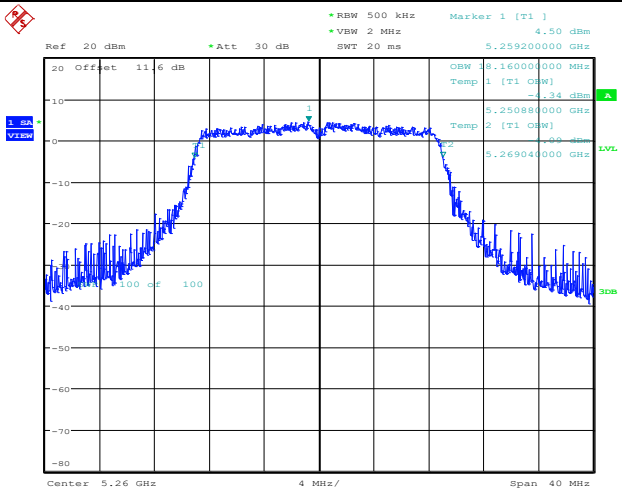

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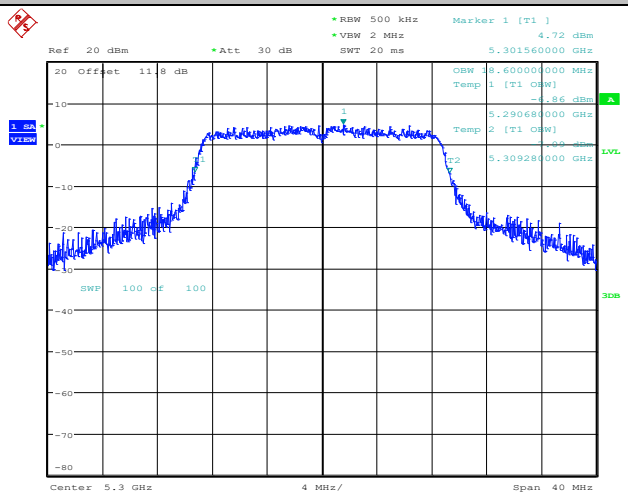

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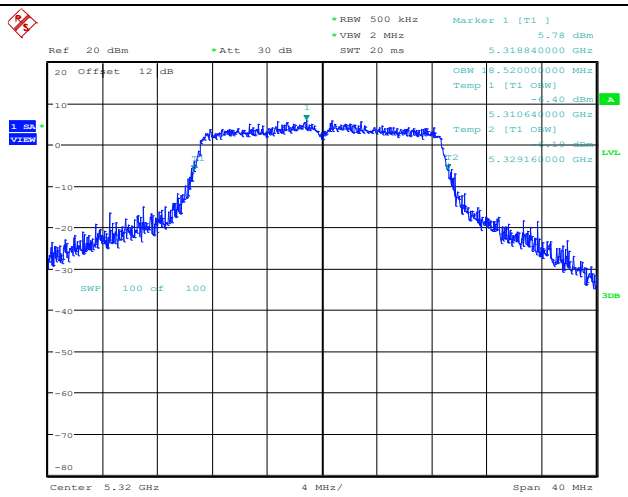

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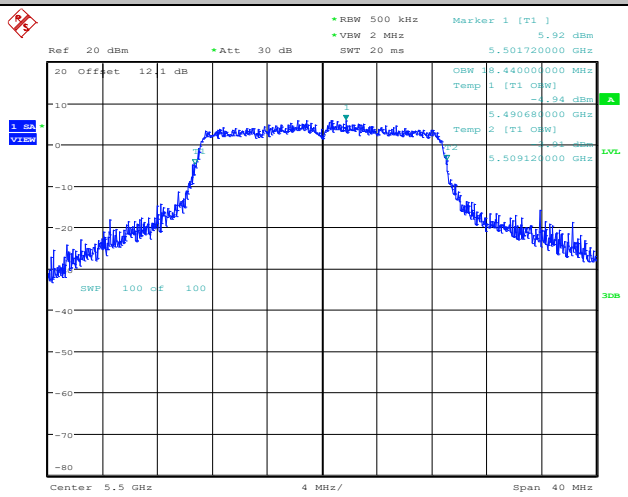

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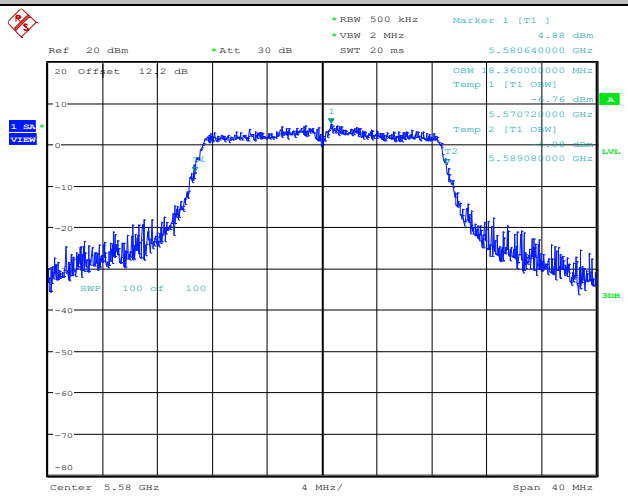

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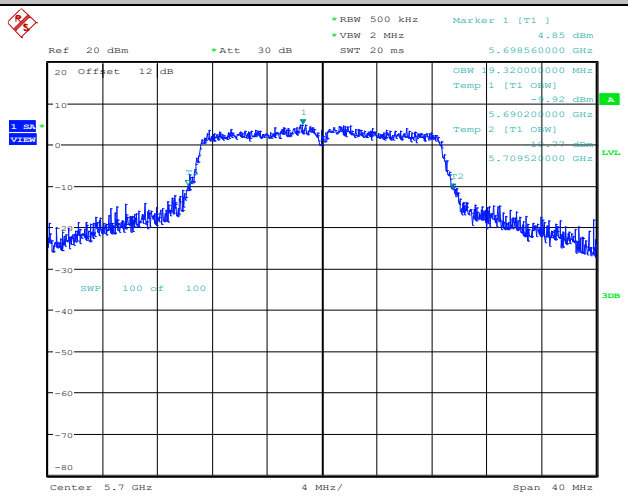

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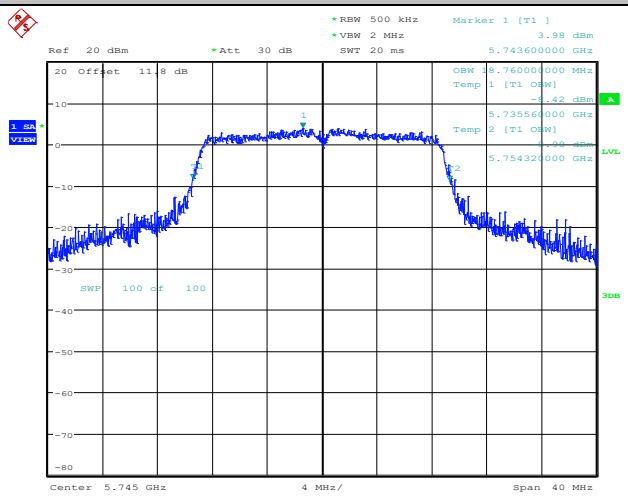

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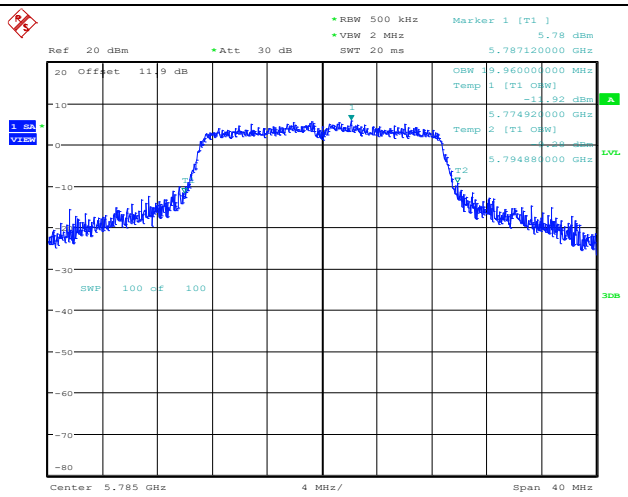

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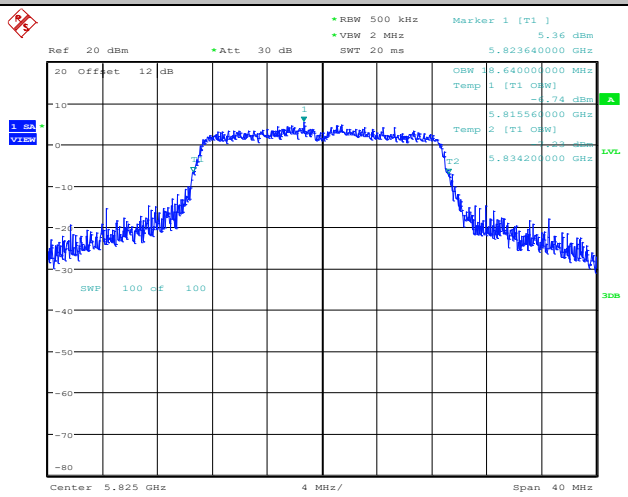

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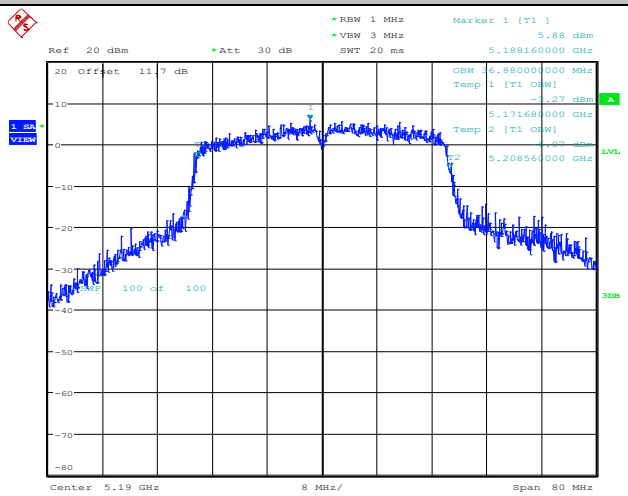

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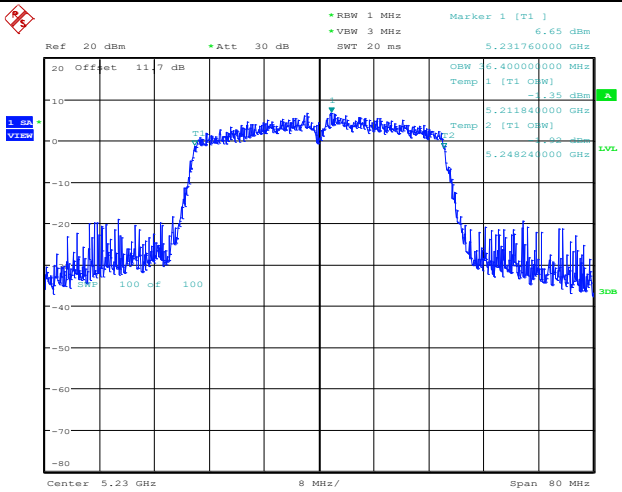

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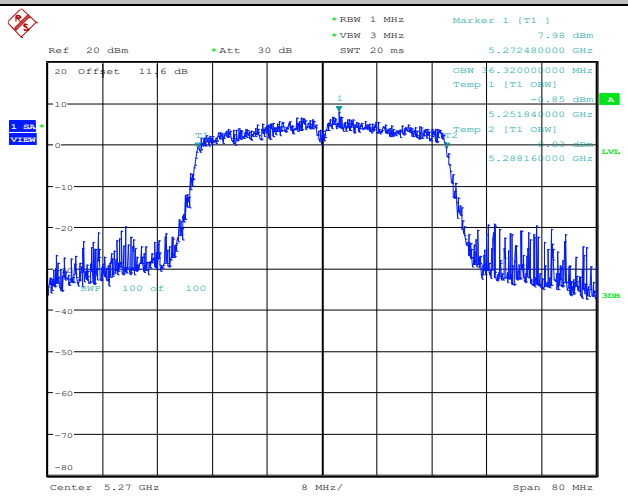

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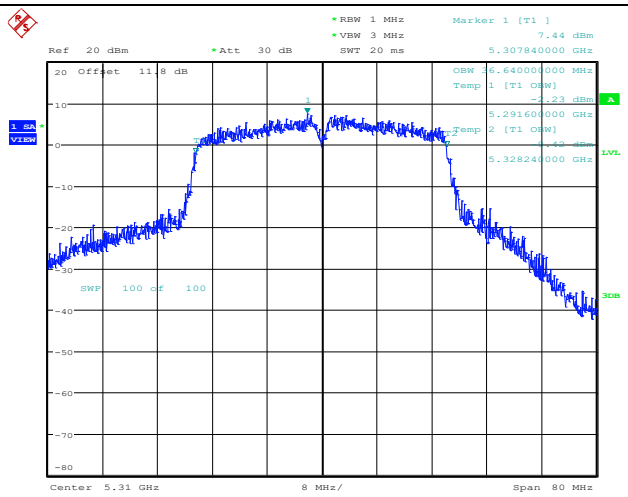

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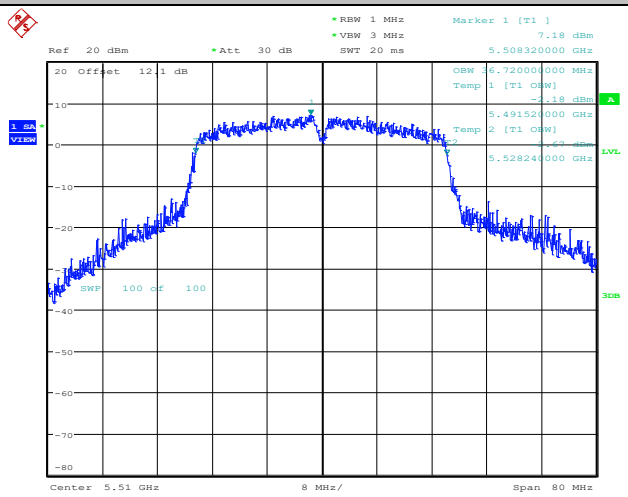

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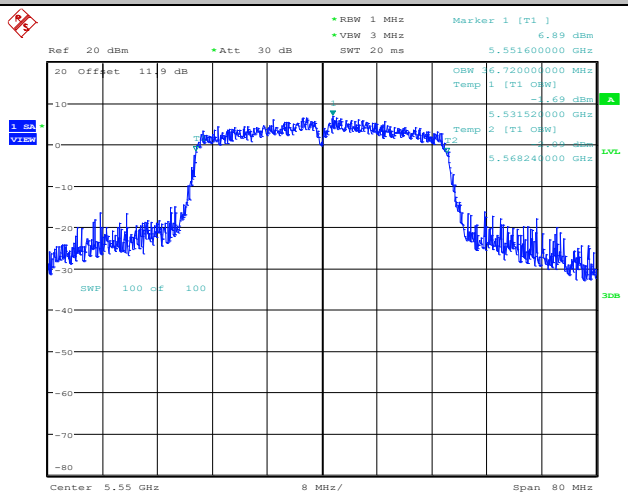

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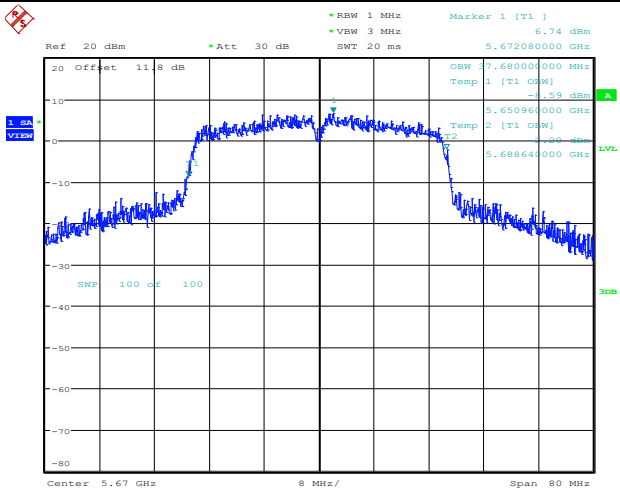

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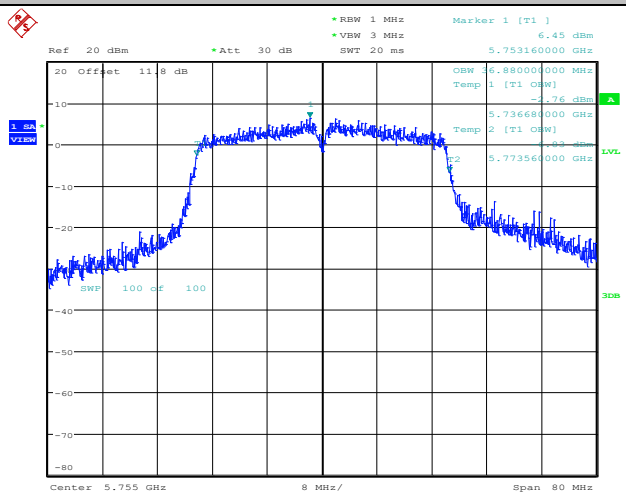

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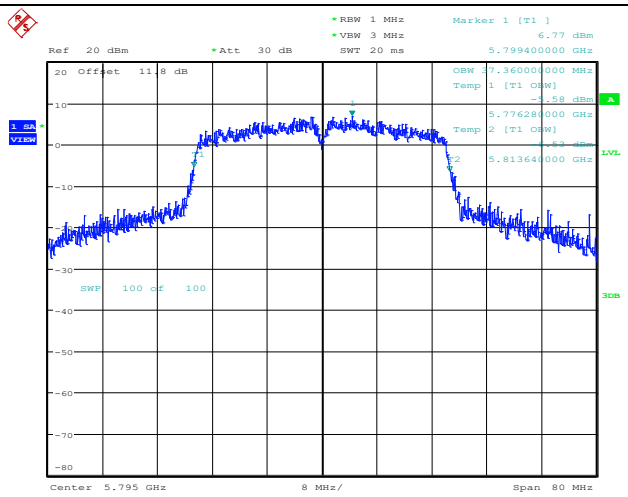

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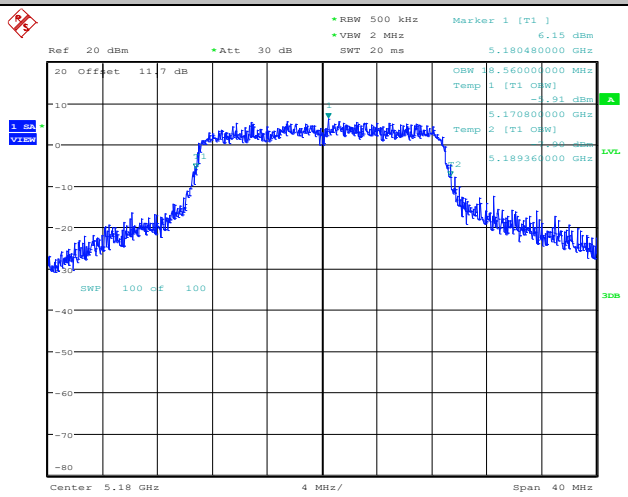

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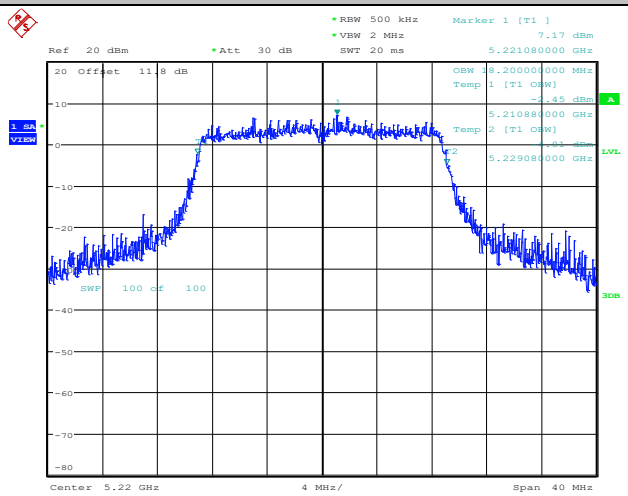

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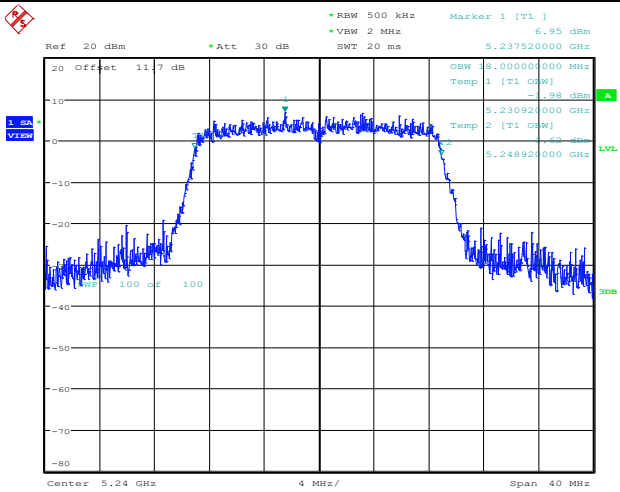

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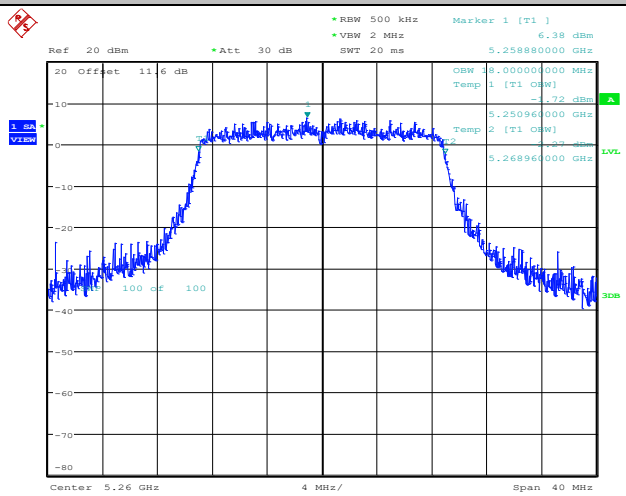

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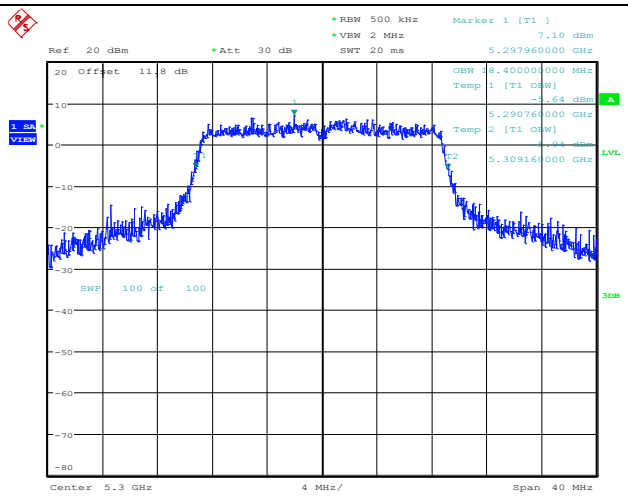

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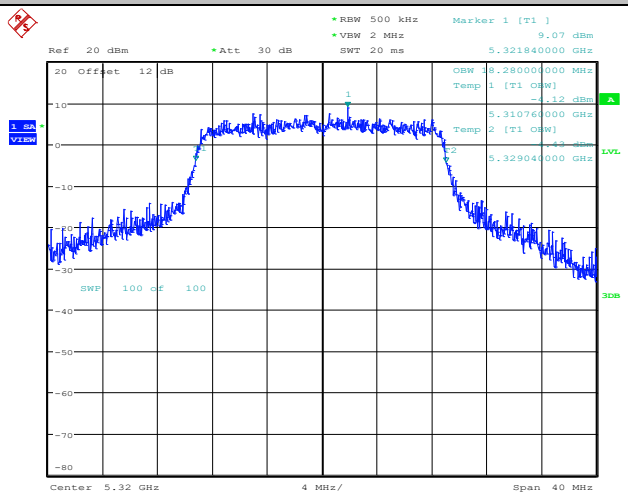

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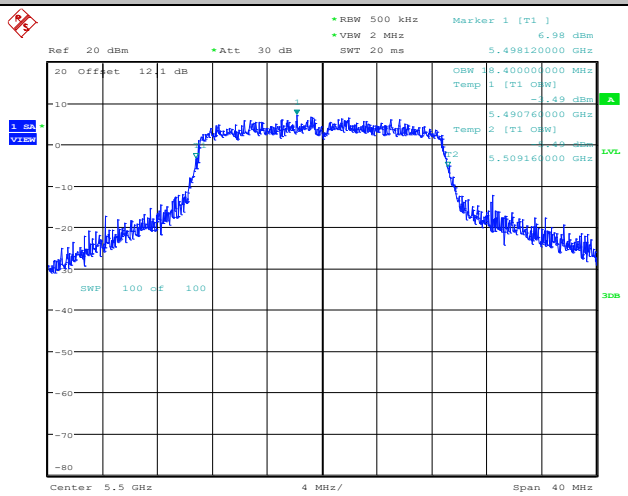

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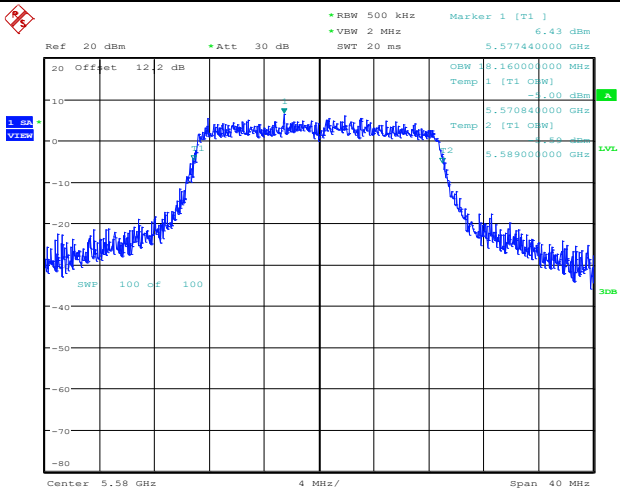

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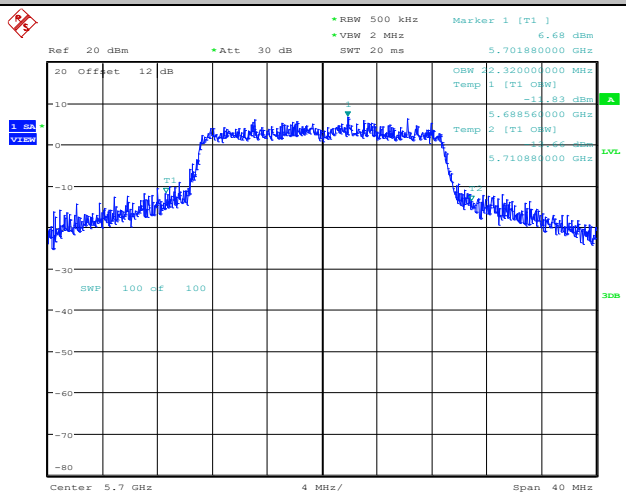

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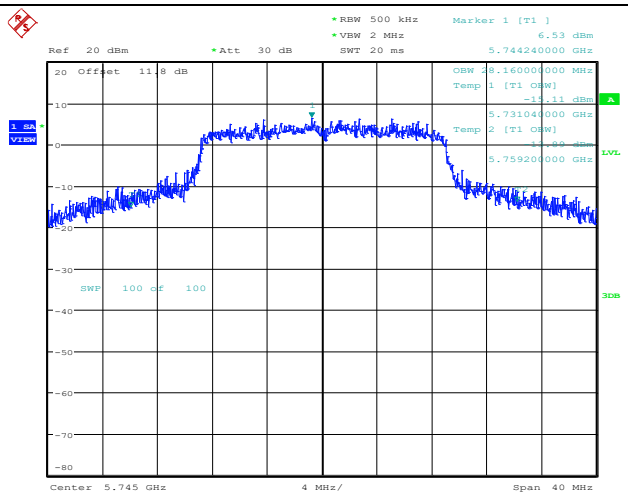

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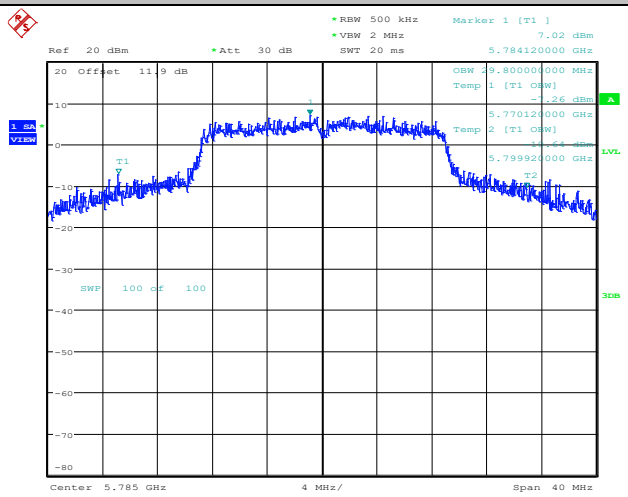

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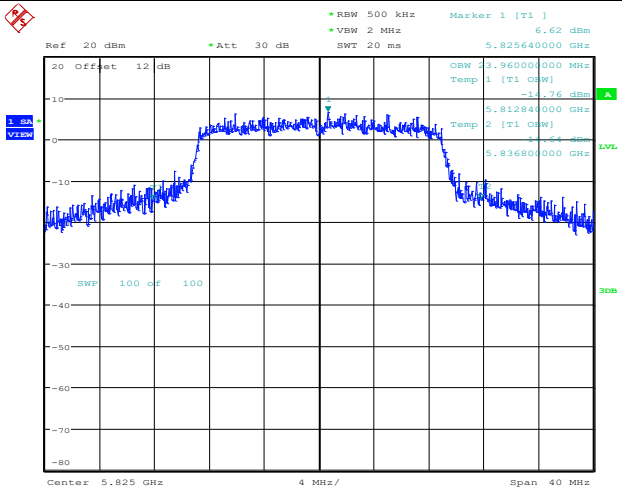

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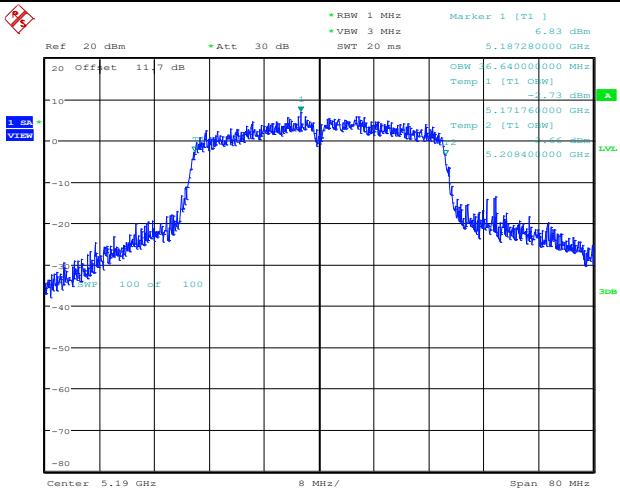

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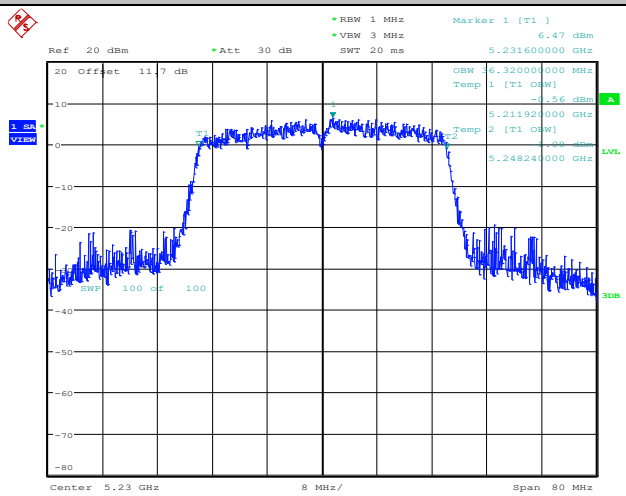

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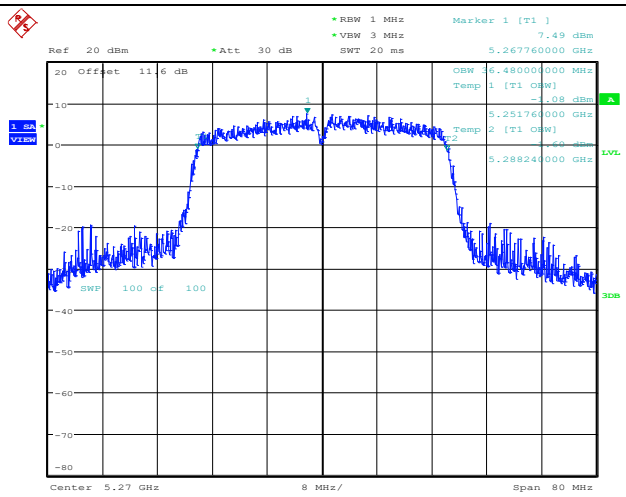

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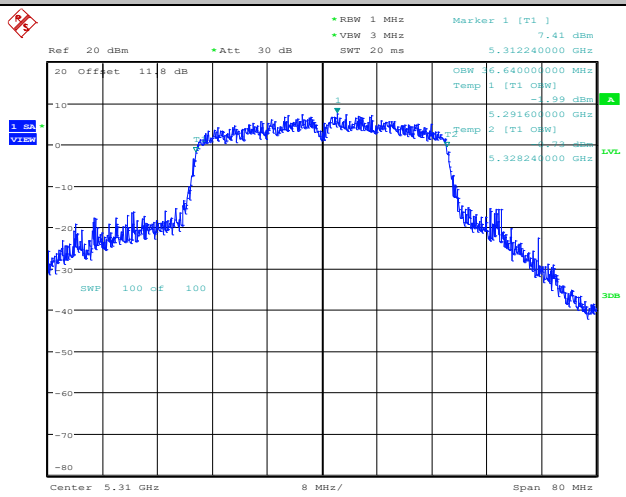

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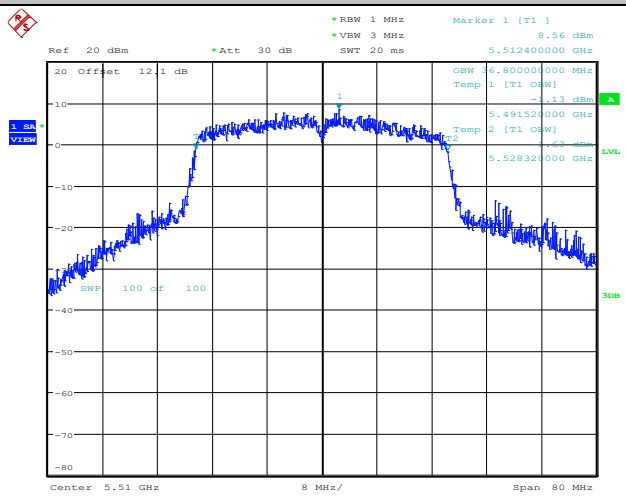

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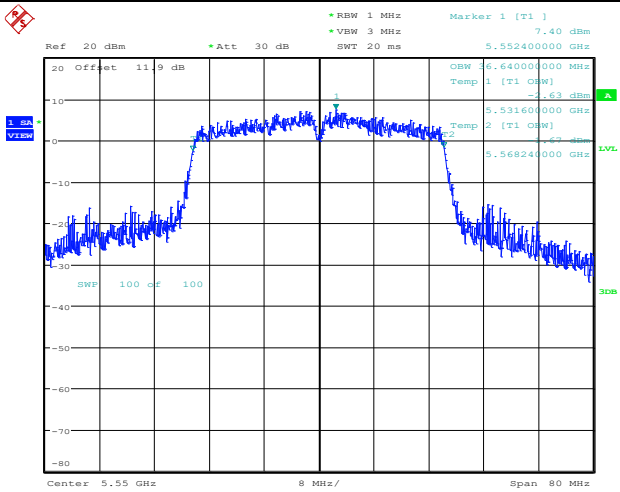

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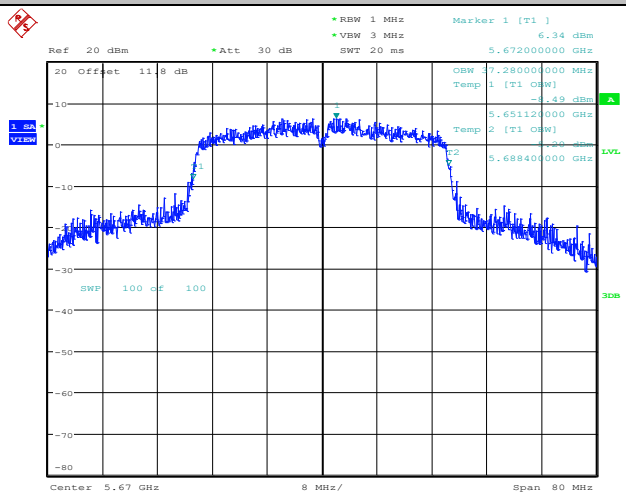

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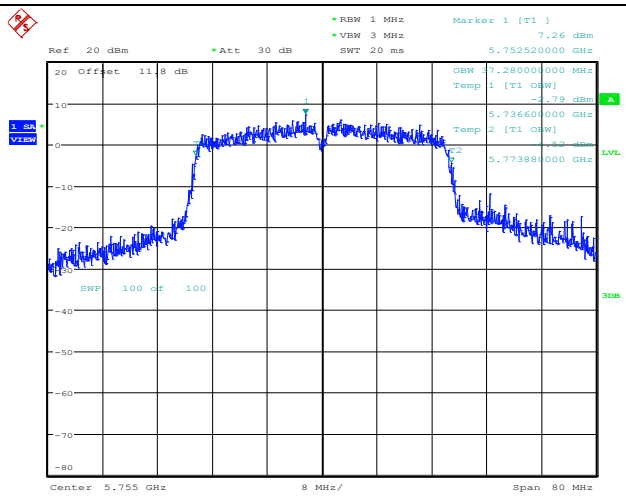

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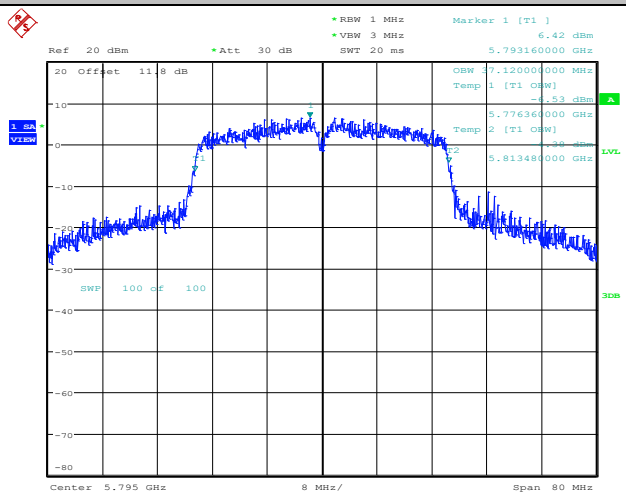

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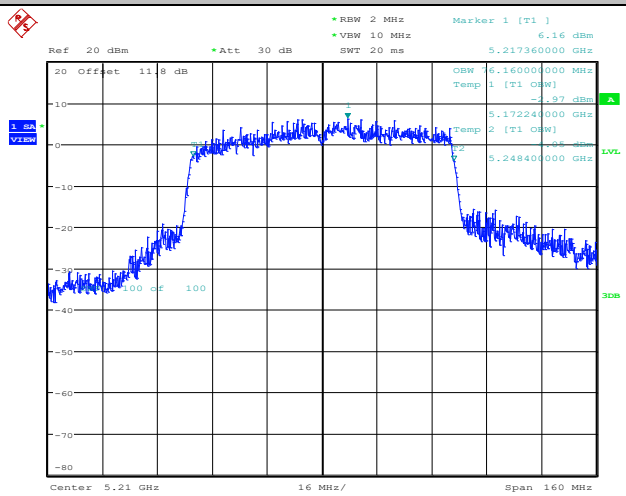

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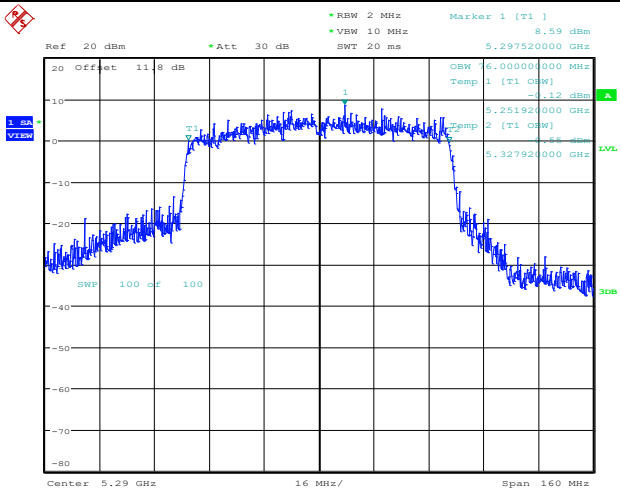

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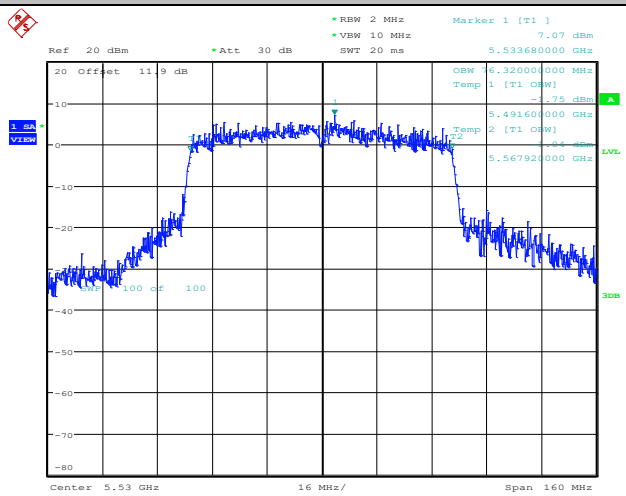

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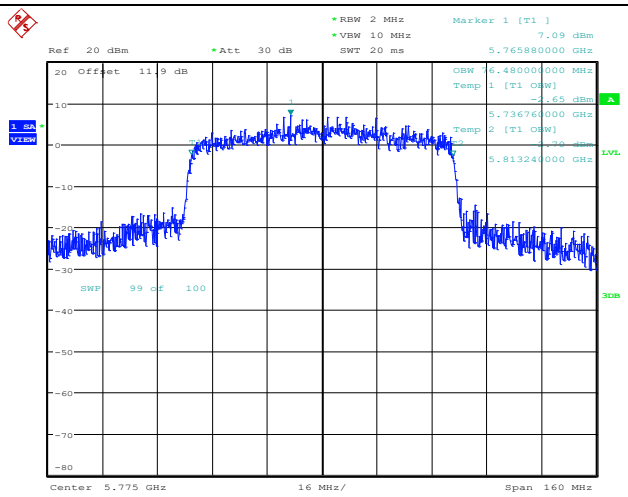

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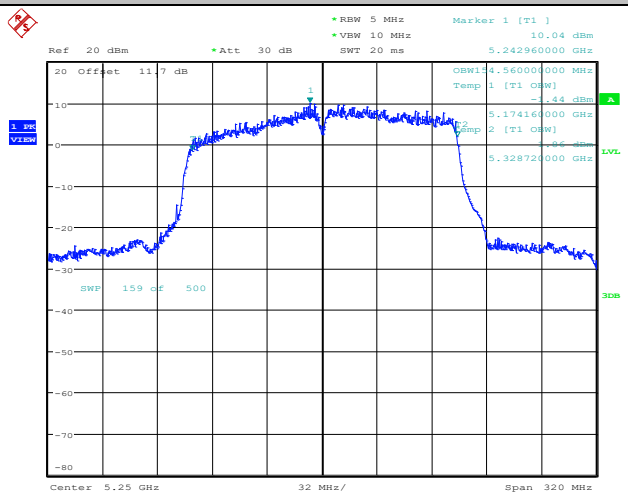

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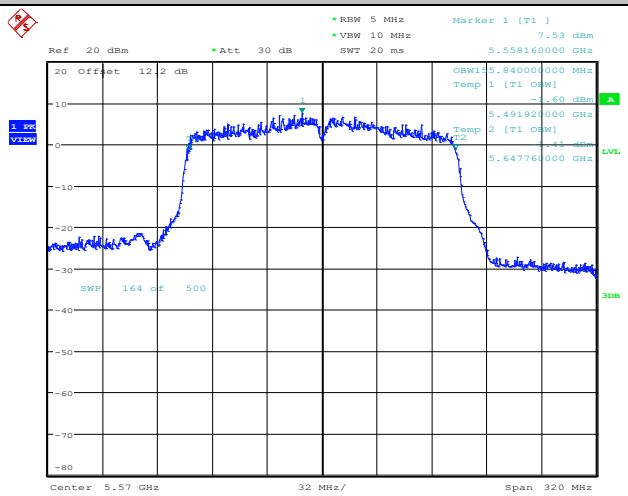

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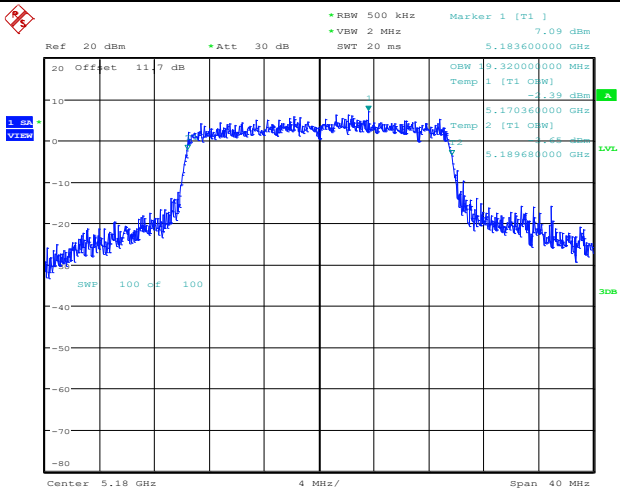

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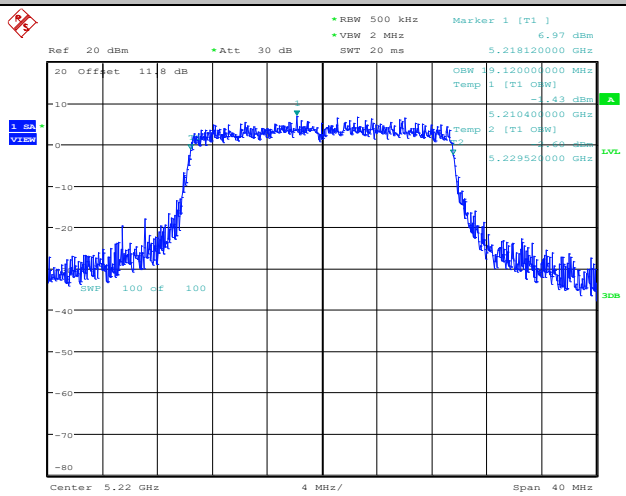

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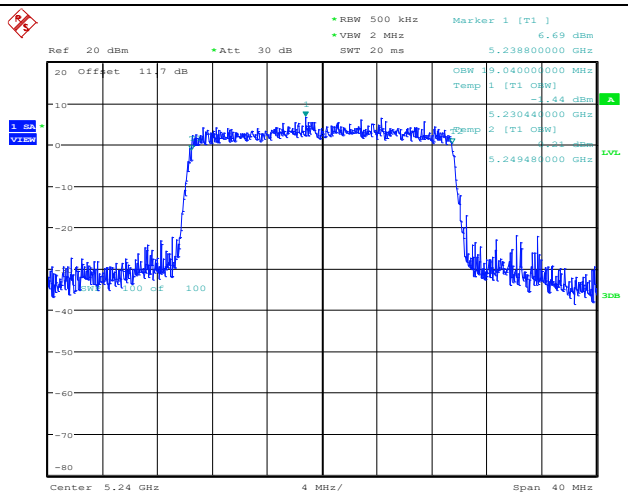

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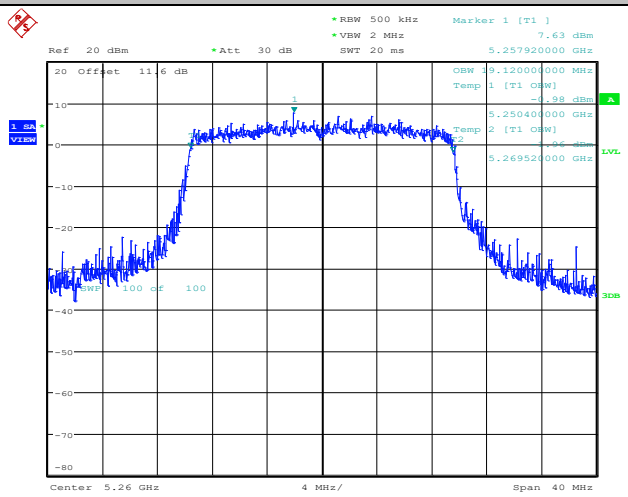

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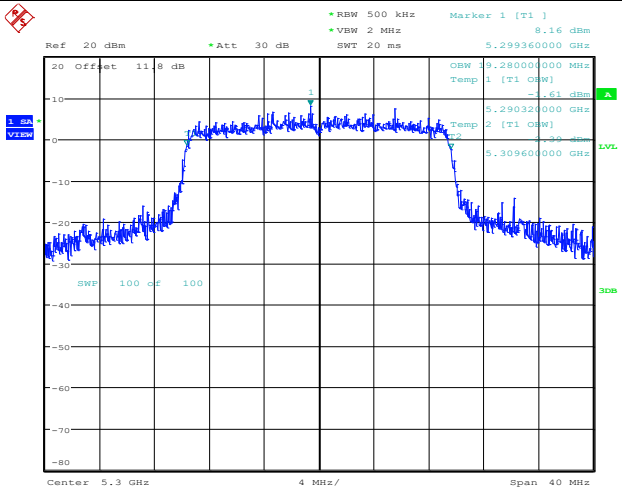

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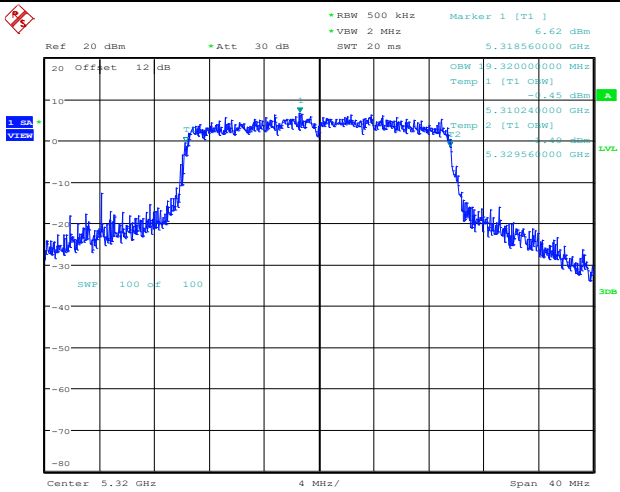

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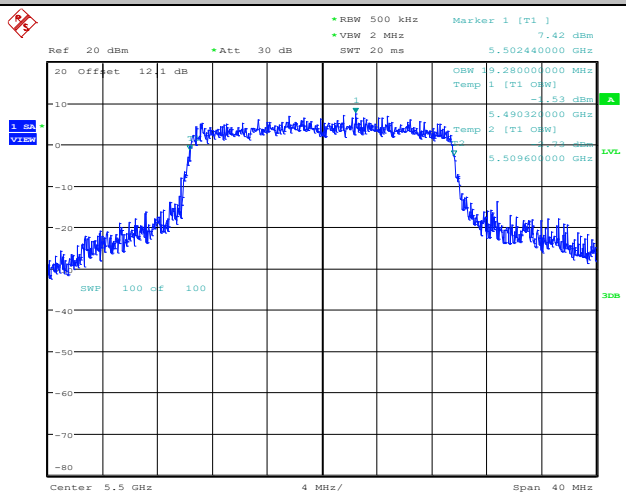

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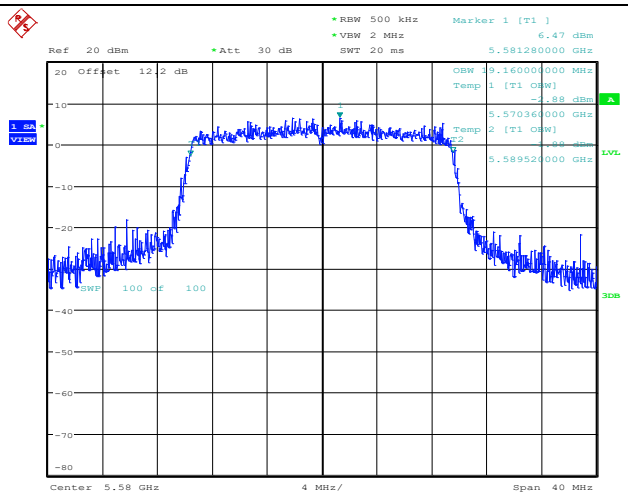

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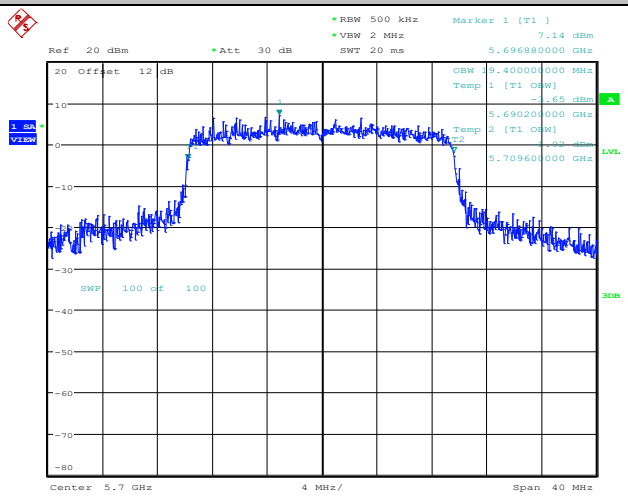

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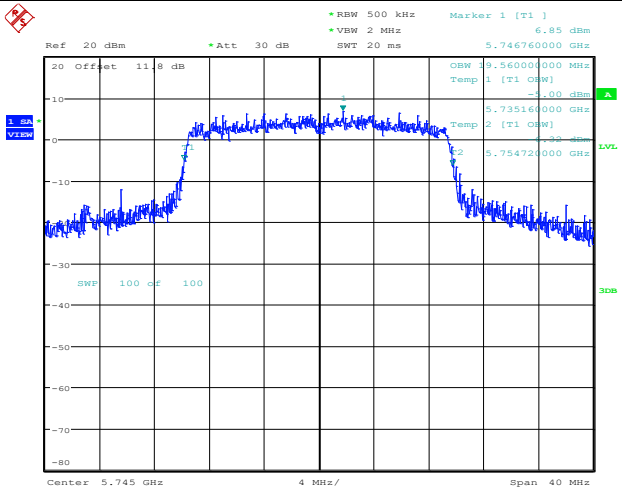

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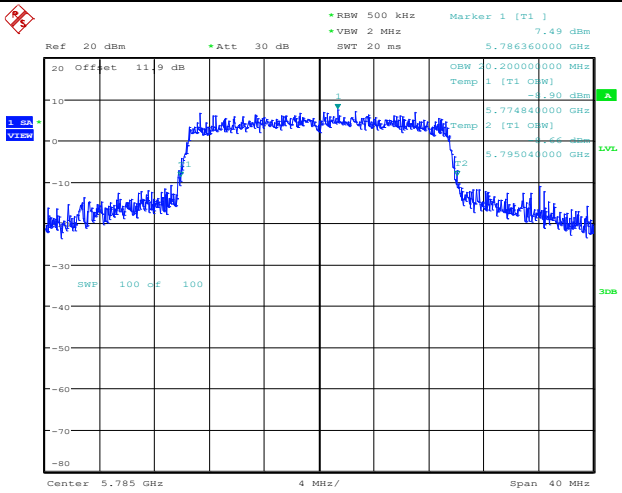

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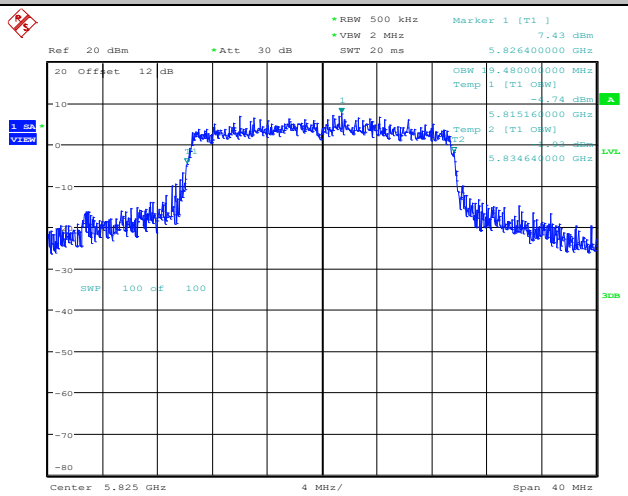

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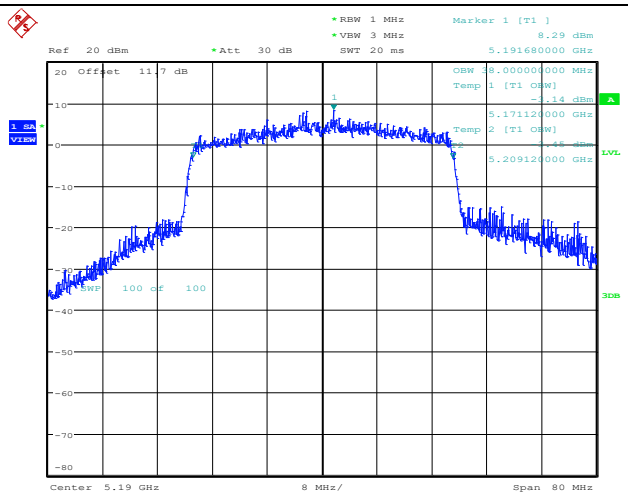

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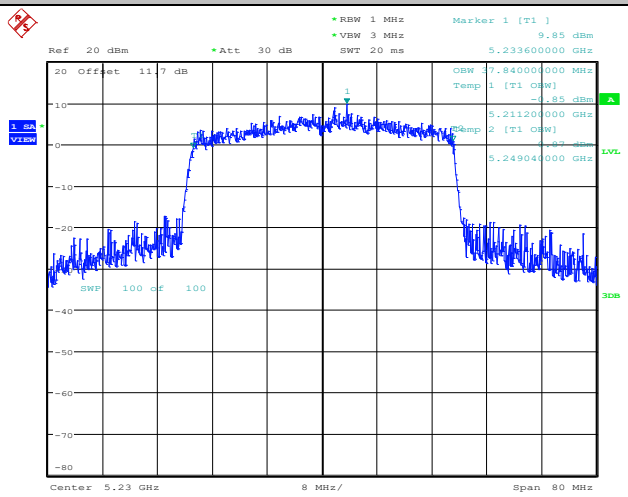

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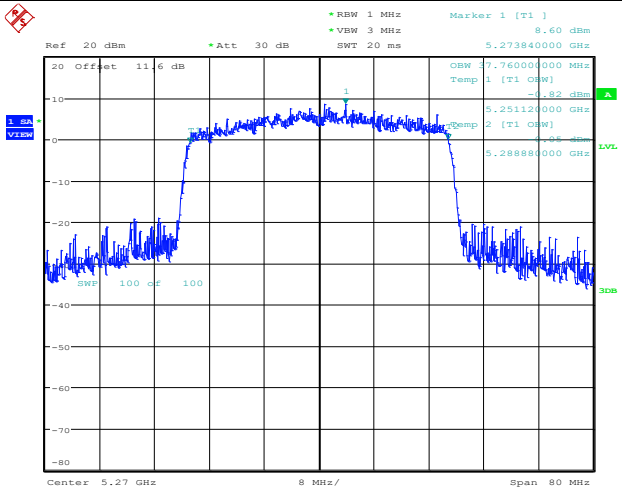

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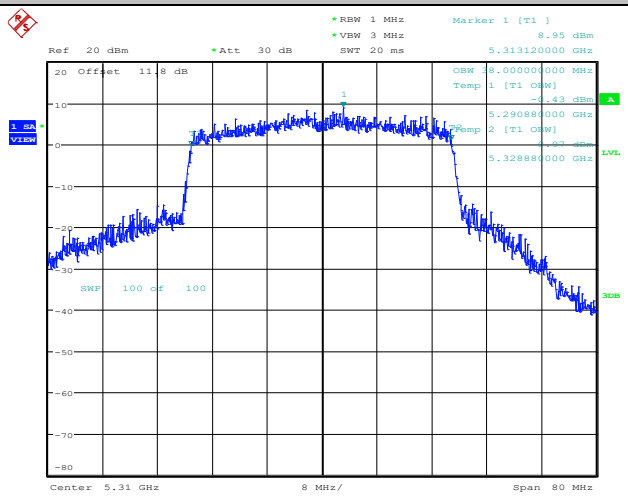

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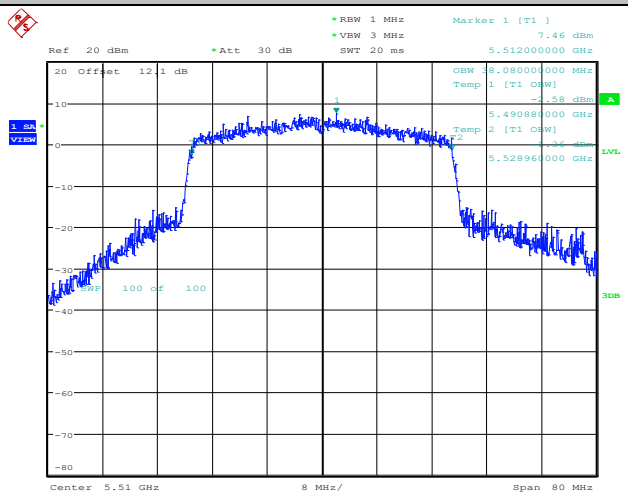
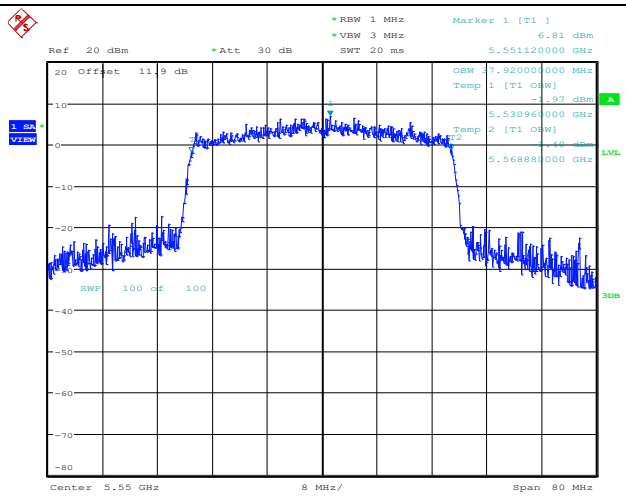


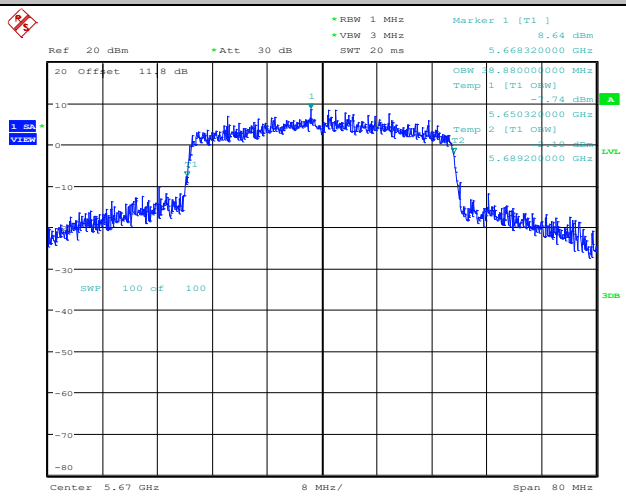
Date: 27.SEP.2024 16:11:39

11AX40SISO_Ant1_5550



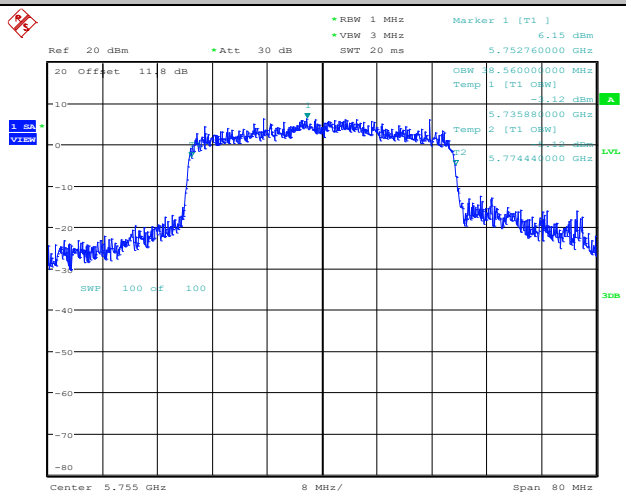
Date: 27.SEP.2024 16:14:17

11AX40SISO_Ant1_5670



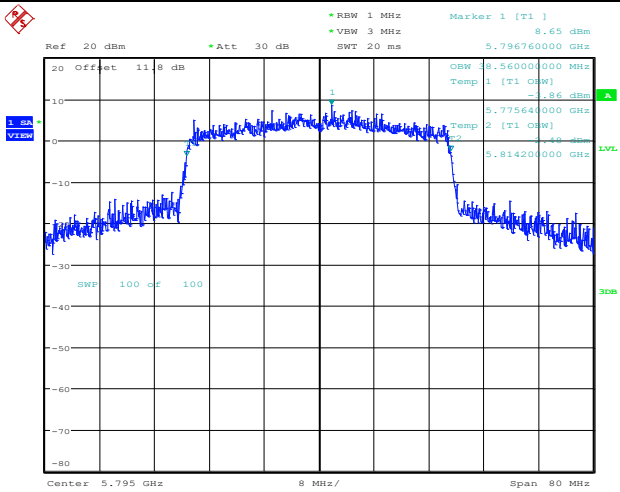
Date: 27.SEP.2024 16:16:31

11AX40SISO_Ant1_5755



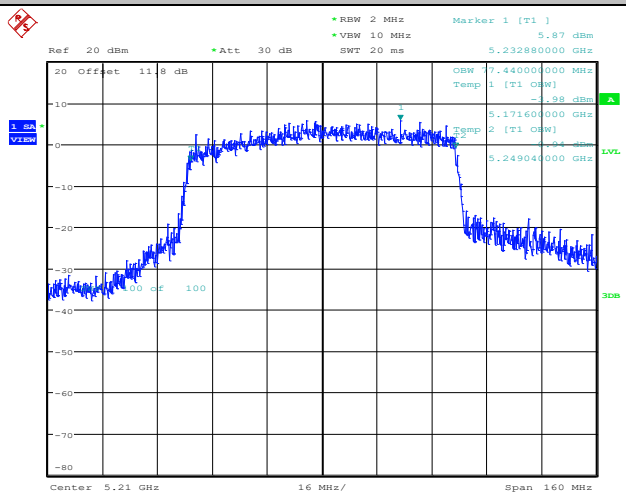
Date: 27.SEP.2024 16:19:38

11AX40SISO_Ant1_5795



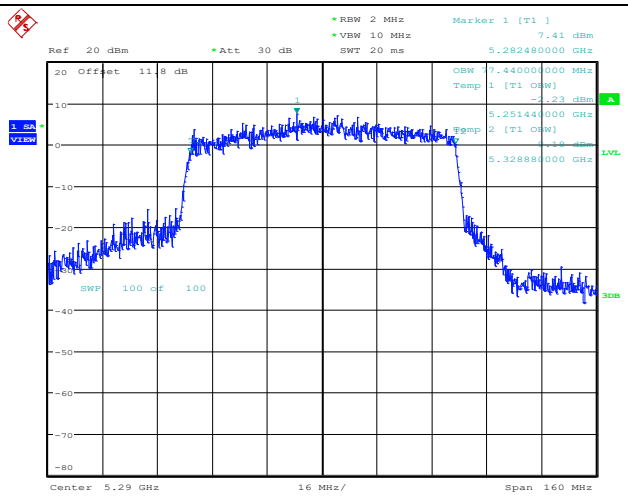
Date: 27.SEP.2024 16:22:43

11AX80SISO_Ant1_5210



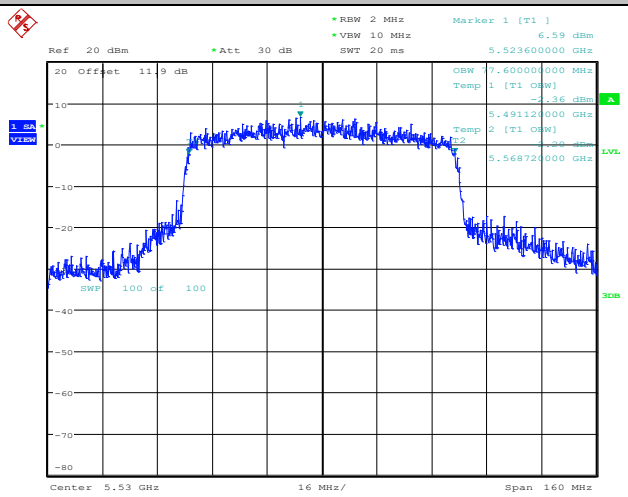
Date: 27.SEP.2024 16:25:27

11AX80SISO_Ant1_5290



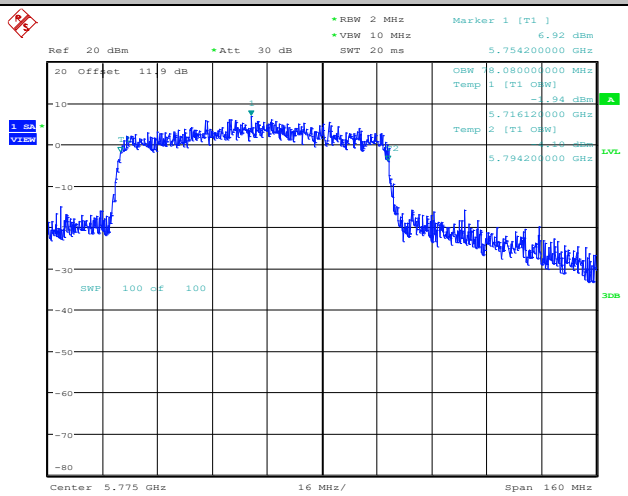
Date: 27.SEP.2024 17:01:49

11AX80SISO_Ant1_5530



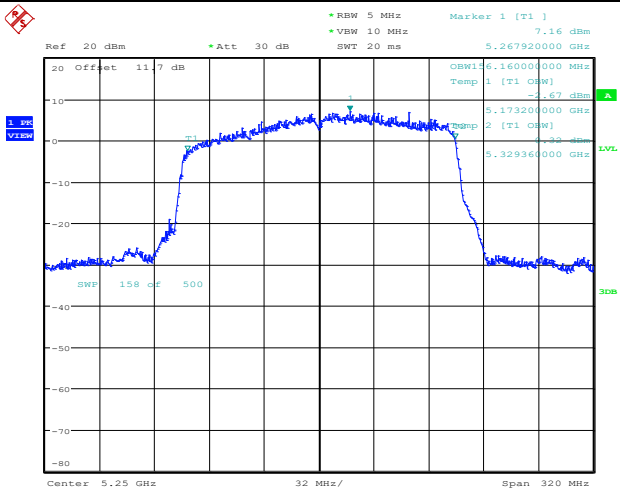
Date: 27.SEP.2024 17:07:24

11AX80SISO_Ant1_5775



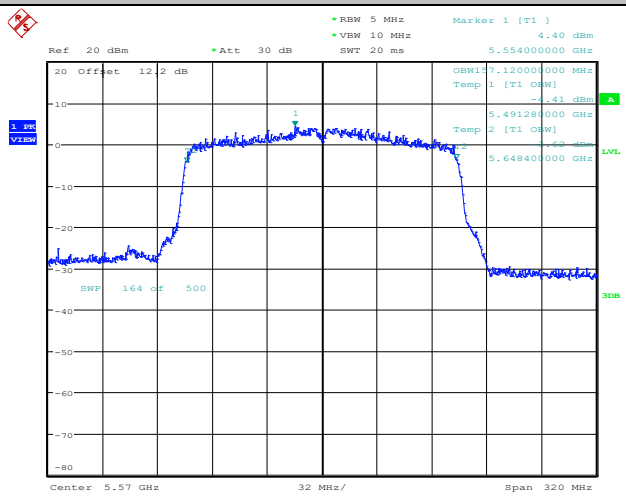
Date: 27.SEP.2024 17:10:32

11AX160SISO_Ant1_5250



Date: 27.SEP.2024 17:13:14

11AX160SISO_Ant1_5570



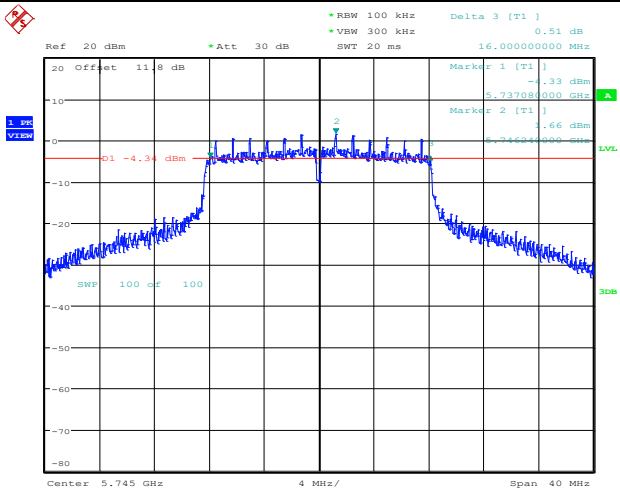
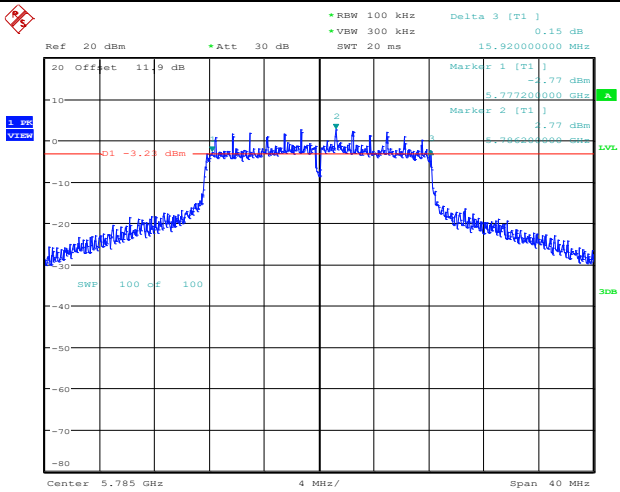
Date: 27.SEP.2024 17:15:58

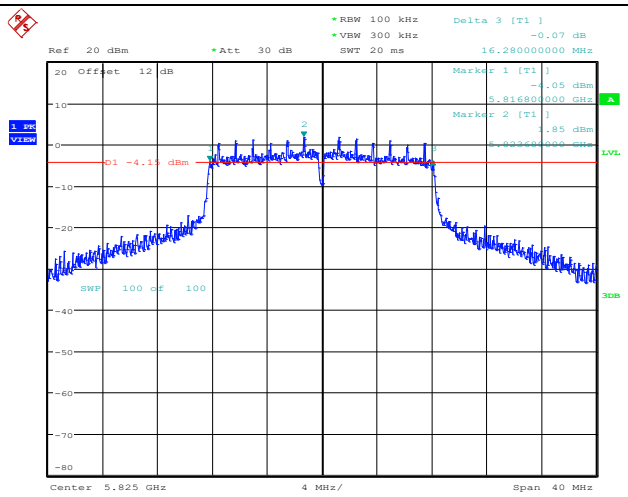
Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.00	5737.08	5753.08	0.5	PASS
		5785	15.92	5777.20	5793.12	0.5	PASS
		5825	16.28	5816.80	5833.08	0.5	PASS
11N20SISO	Ant1	5745	17.28	5736.44	5753.72	0.5	PASS
		5785	17.28	5776.44	5793.72	0.5	PASS
		5825	16.96	5816.52	5833.48	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	17.52	5736.32	5753.84	0.5	PASS
		5785	17.52	5776.36	5793.88	0.5	PASS
		5825	16.88	5816.72	5833.60	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	75.04	5737.40	5812.44	0.5	PASS
11AX20SISO	Ant1	5745	18.52	5735.68	5754.20	0.5	PASS
		5785	18.40	5775.88	5794.28	0.5	PASS
		5825	17.72	5816.20	5833.92	0.5	PASS
11AX40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AX80SISO	Ant1	5775	75.04	5717.40	5792.44	0.5	PASS

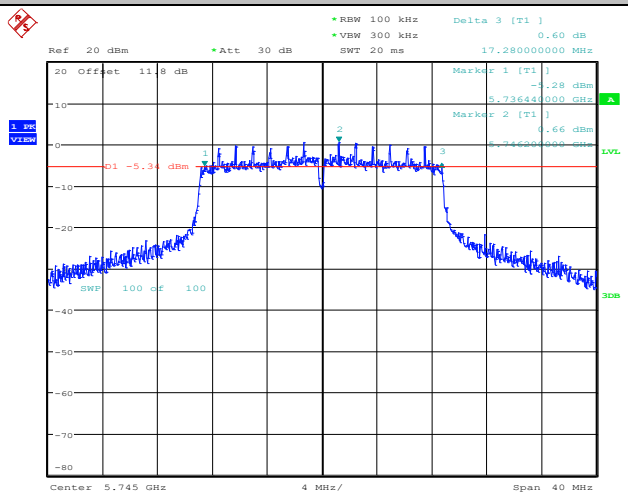
Test Graphs B4

11A_Ant1_5745
 Date: 27.SEP.2024 12:53:06
11A_Ant1_5785
 Date: 27.SEP.2024 12:56:10
11A_Ant1_5825



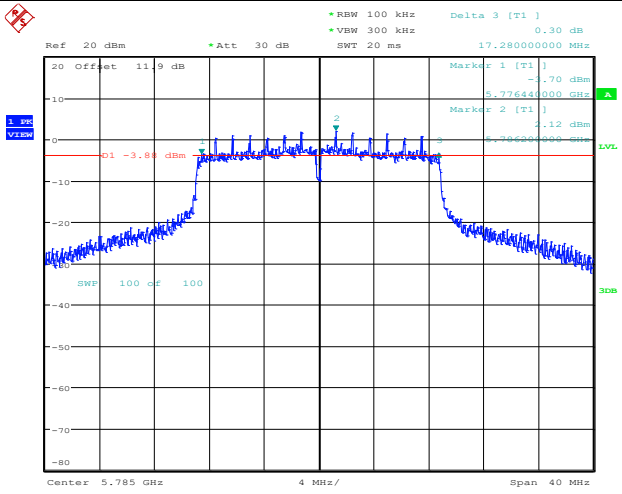
Date: 27.SEP.2024 12:58:47

11N20SISO_Ant1_5745



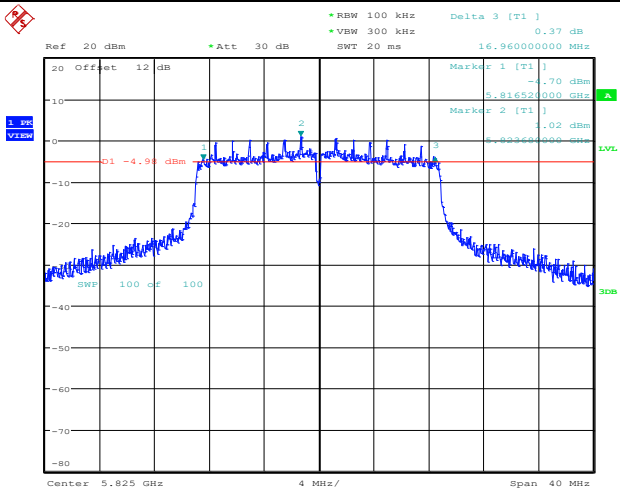
Date: 27.SEP.2024 13:28:12

11N20SISO_Ant1_5785



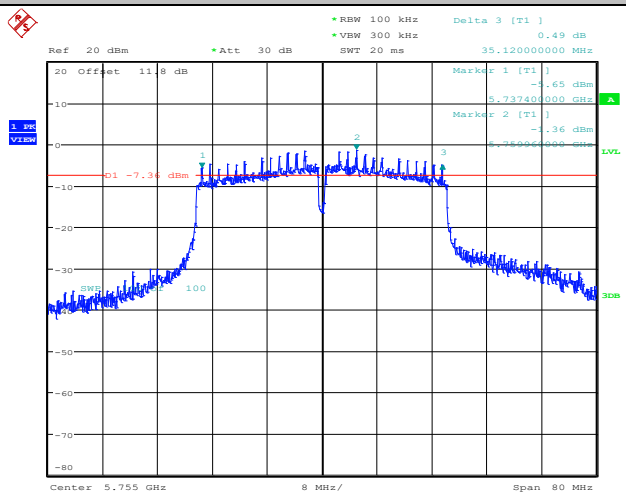
Date: 27.SEP.2024 13:31:15

11N20SISO_Ant1_5825



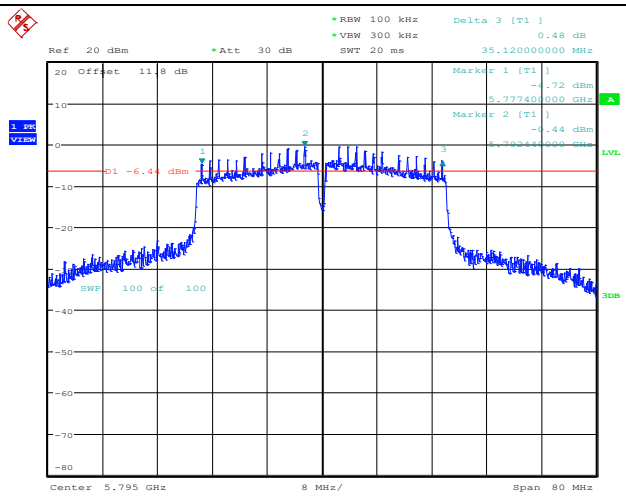
Date: 27.SEP.2024 13:34:00

11N40SISO_Ant1_5755



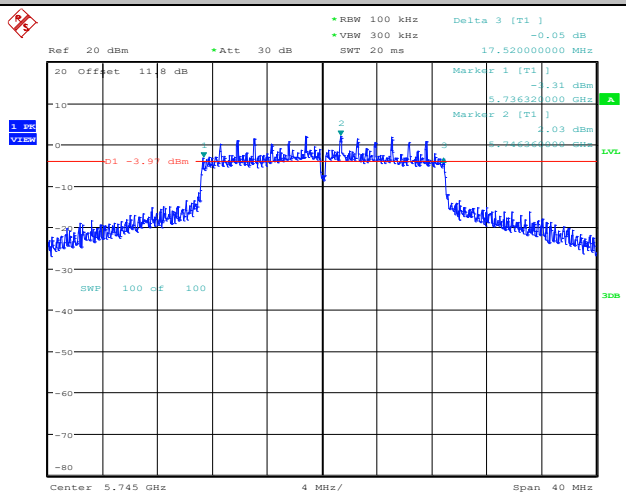
Date: 27.SEP.2024 13:56:17

11N40SISO_Ant1_5795



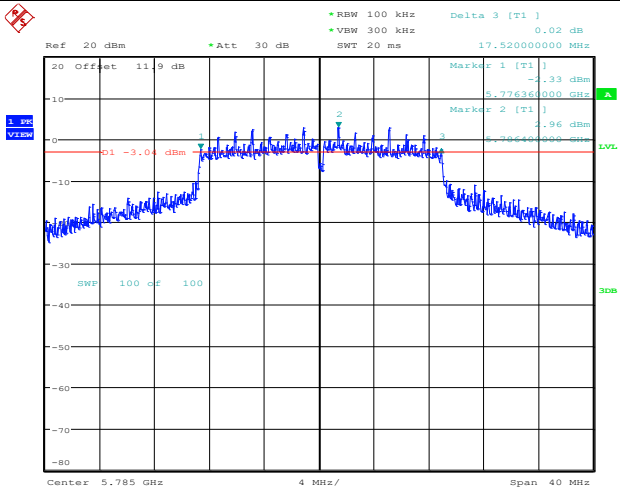
Date: 27.SEP.2024 13:59:24

11AC20SISO_Ant1_5745



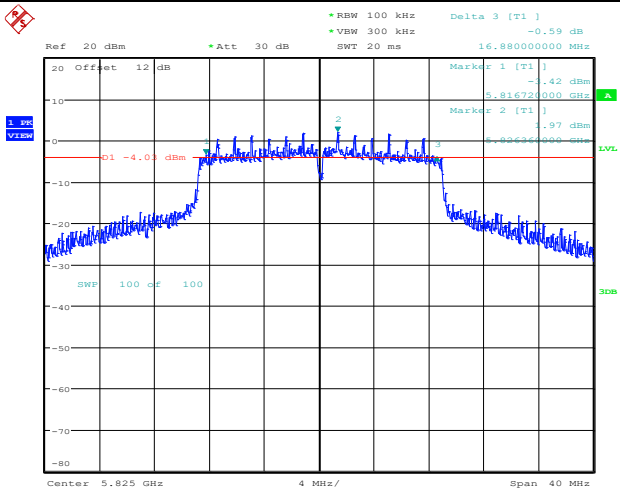
Date: 27.SEP.2024 14:28:56

11AC20SISO_Ant1_5785



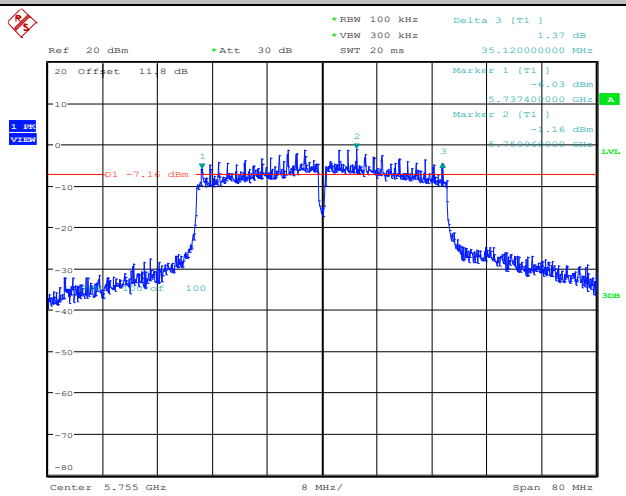
Date: 27.SEP.2024 14:32:00

11AC20SISO_Ant1_5825



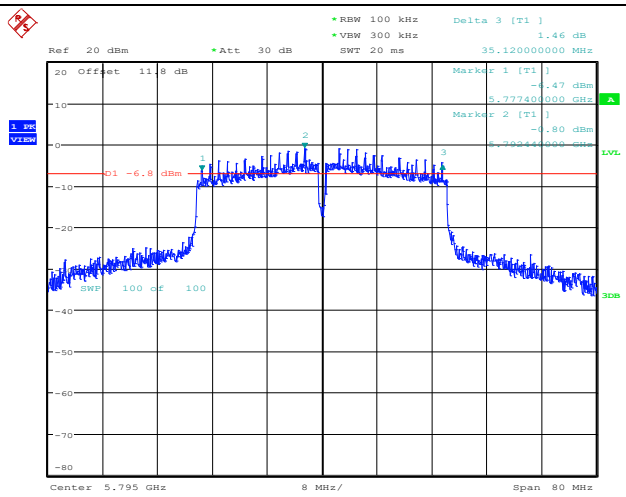
Date: 27.SEP.2024 14:34:39

11AC40SISO_Ant1_5755



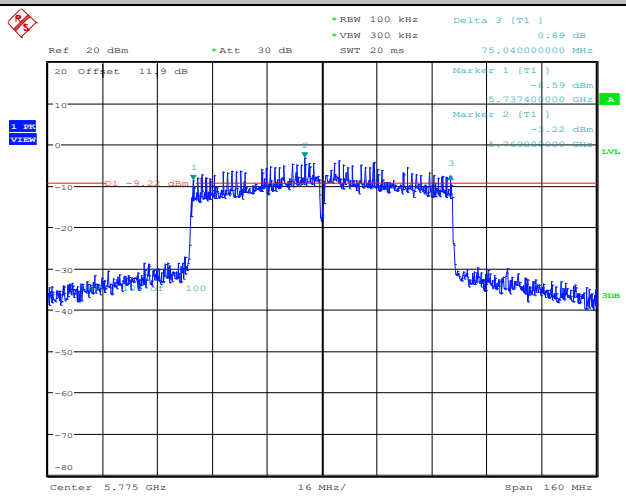
Date: 27.SEP.2024 14:56:02

11AC40SISO_Ant1_5795



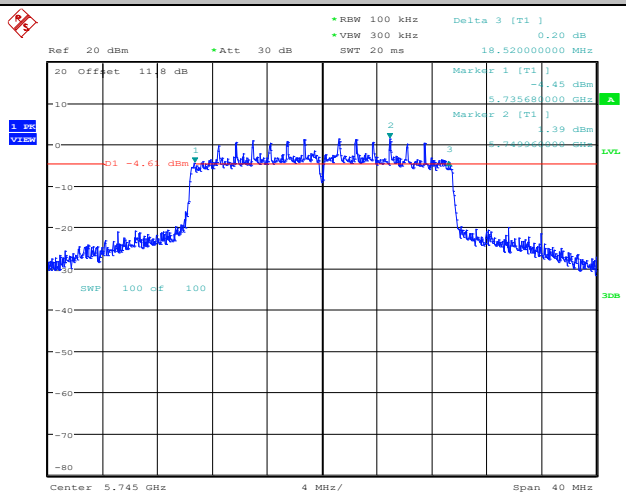
Date: 27.SEP.2024 14:59:35

11AC80SISO_Ant1_5775



Date: 27.SEP.2024 15:15:12

11AX20SISO_Ant1_5745



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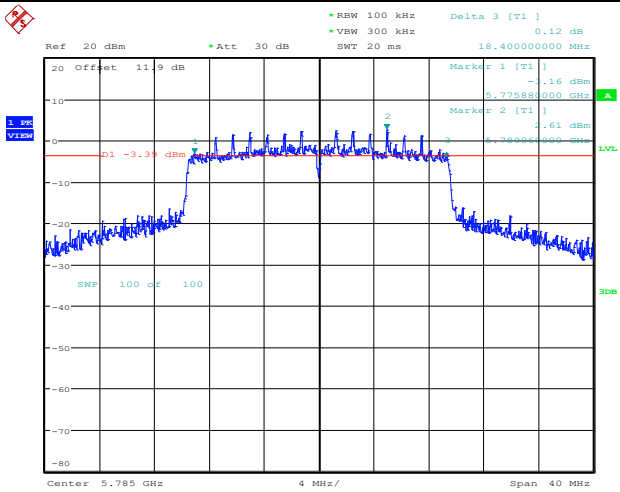
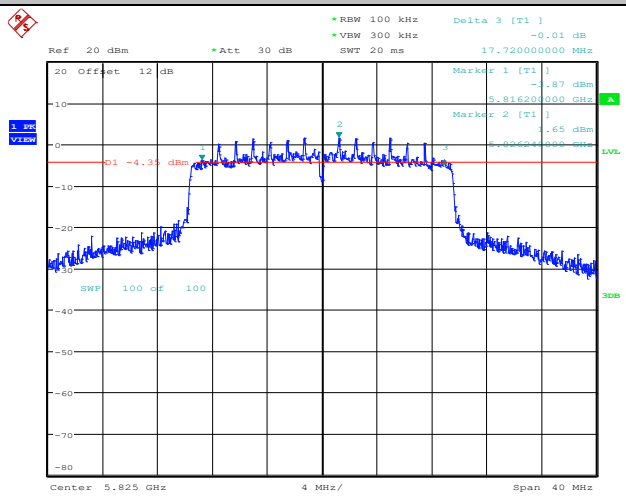
11AX20SISO_Ant1_5785



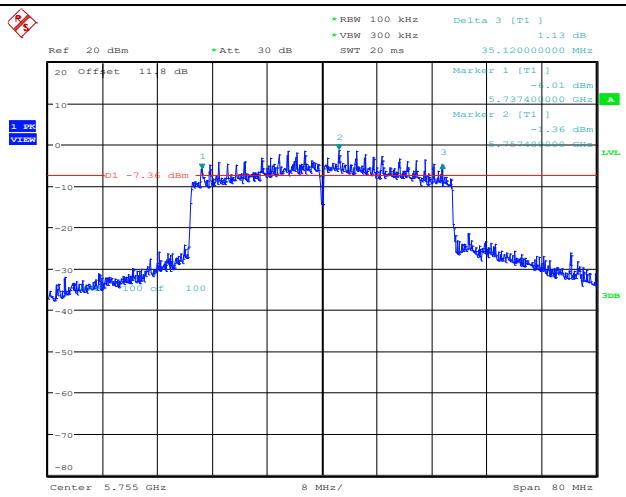
Date: 27.SEP.2024 15:54:50

11AX20SISO_Ant1_5825



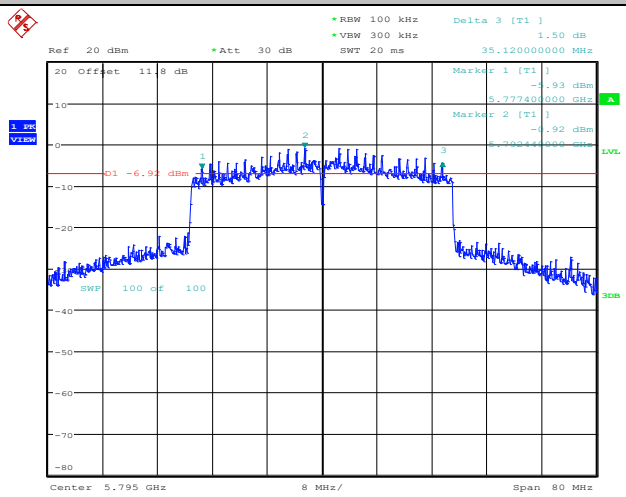
Date: 27.SEP.2024 15:57:23

11AX40SISO_Ant1_5755



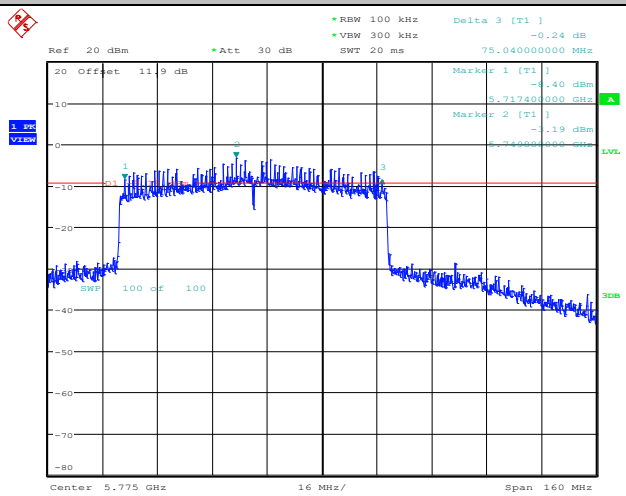
Date: 27.SEP.2024 16:19:23

11AX40SISO_Ant1_5795



Date: 27.SEP.2024 16:22:28

11AX80SISO_Ant1_5775



Date: 27.SEP.2024 17:10:17

Appendix B: Duty Cycle

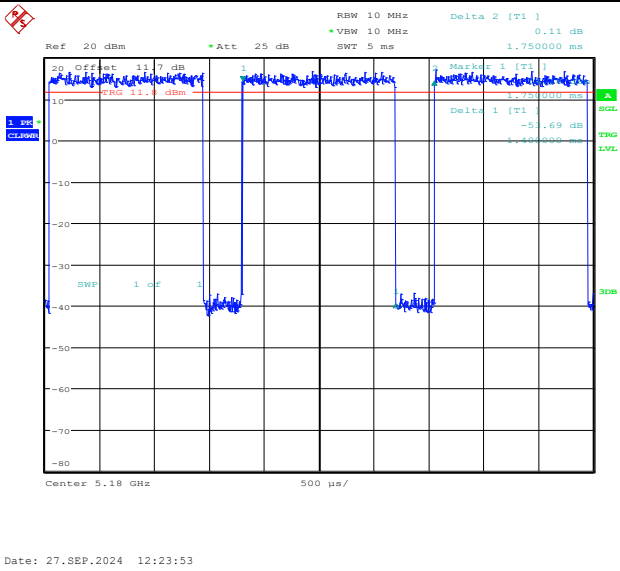
Test Result

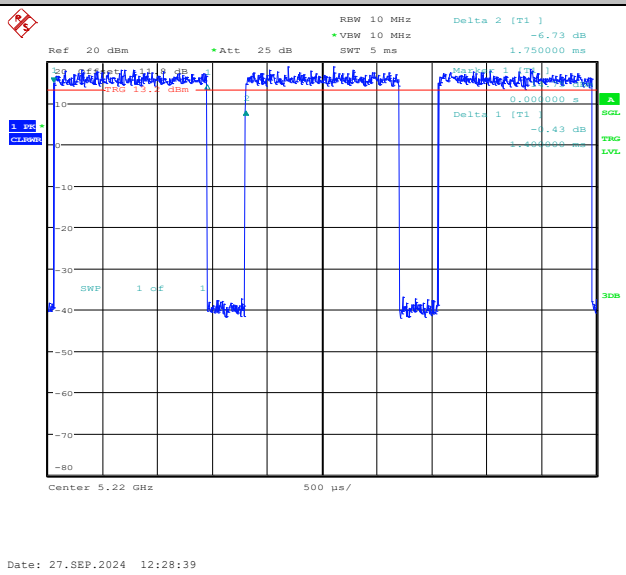
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.40	1.75	80.00	---	---
		5220	1.40	1.75	80.00	---	---
		5240	1.40	1.76	79.55	---	---
		5260	1.40	1.76	79.55	---	---
		5300	1.40	1.75	80.00	---	---
		5320	1.40	1.75	80.00	---	---
		5500	1.40	1.75	80.00	---	---
		5580	1.40	1.76	79.55	---	---
		5700	1.40	1.75	80.00	---	---
		5745	1.40	1.75	80.00	---	---
		5785	1.40	1.75	80.00	---	---
		5825	1.40	1.75	80.00	---	---
11N20SISO	Ant1	5180	1.31	1.66	78.92	---	---
		5220	1.31	1.66	78.92	---	---
		5240	1.31	1.66	78.92	---	---
		5260	1.31	1.66	78.92	---	---
		5300	1.30	1.66	78.31	---	---
		5320	1.31	1.66	78.92	---	---
		5500	1.30	1.66	78.31	---	---
		5580	1.31	1.66	78.92	---	---
		5700	1.31	1.66	78.92	---	---
		5745	1.31	1.66	78.92	---	---
		5785	1.31	1.66	78.92	---	---
		5825	1.31	1.66	78.92	---	---
11N40SISO	Ant1	5190	0.65	1.01	64.36	---	---
		5230	0.65	1.01	64.36	---	---
		5270	0.65	1.01	64.36	---	---
		5310	0.65	1.01	64.36	---	---
		5510	0.65	1.01	64.36	---	---
		5550	0.65	1.01	64.36	---	---
		5670	0.65	1.01	64.36	---	---
		5755	0.65	1.01	64.36	---	---
		5795	0.65	1.01	64.36	---	---
11AC20SISO	Ant1	5180	0.68	1.04	65.38	---	---

		5220	0.68	1.04	65.38	---	---
		5240	0.68	1.04	65.38	---	---
		5260	0.68	1.04	65.38	---	---
		5300	0.69	1.05	65.71	---	---
		5320	0.68	1.04	65.38	---	---
		5500	0.68	1.04	65.38	---	---
		5580	0.69	1.05	65.71	---	---
		5700	0.69	1.05	65.71	---	---
		5745	0.68	1.04	65.38	---	---
		5785	0.68	1.04	65.38	---	---
		5825	0.68	1.04	65.38	---	---
11AC40SISO	Ant1	5190	0.35	0.71	49.30	---	---
		5230	0.35	0.71	49.30	---	---
		5270	0.36	0.71	50.70	---	---
		5310	0.35	0.71	49.30	---	---
		5510	0.35	0.71	49.30	---	---
		5550	0.35	0.70	50.00	---	---
		5670	0.35	0.71	49.30	---	---
		5755	0.36	0.72	50.00	---	---
		5795	0.35	0.70	50.00	---	---
11AC80SISO	Ant1	5210	0.19	0.52	36.54	---	---
		5290	0.19	0.52	36.54	---	---
		5530	0.19	0.53	35.85	---	---
		5775	0.19	0.52	36.54	---	---
11AC160SISO	Ant1	5250	0.11	0.46	23.91	---	---
		5570	0.12	0.46	26.09	---	---
11AX20SISO	Ant1	5180	0.21	0.53	39.62	---	---
		5220	0.21	0.53	39.62	---	---
		5240	0.20	0.53	37.74	---	---
		5260	0.21	0.53	39.62	---	---
		5300	0.21	0.53	39.62	---	---
		5320	0.21	0.53	39.62	---	---
		5500	0.21	0.53	39.62	---	---
		5580	0.20	0.52	38.46	---	---
		5700	0.20	0.52	38.46	---	---
		5745	0.21	0.53	39.62	---	---
		5785	0.21	0.53	39.62	---	---
		5825	0.21	0.53	39.62	---	---
11AX40SISO	Ant1	5190	0.32	0.68	47.06	---	---
		5230	0.32	0.69	46.38	---	---
		5270	0.32	0.67	47.76	---	---
		5310	0.32	0.68	47.06	---	---
		5510	0.32	0.69	46.38	---	---

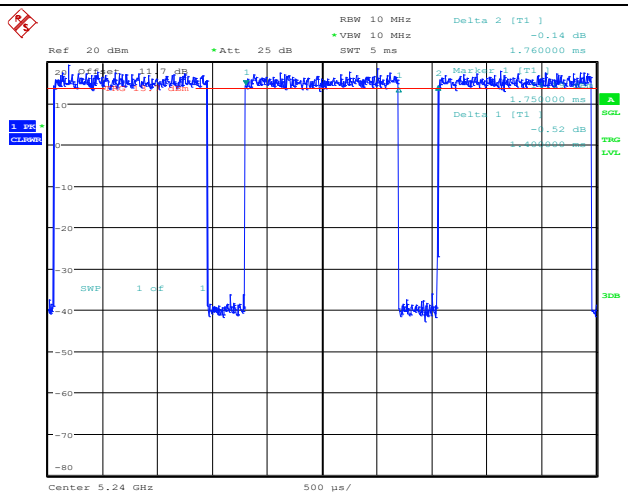
		5550	0.32	0.68	47.06	---	---
		5670	0.32	0.68	47.06	---	---
		5755	0.32	0.68	47.06	---	---
		5795	0.32	0.67	47.76	---	---
11AX80SISO	Ant1	5210	0.19	0.56	33.93	---	---
		5290	0.19	0.55	34.55	---	---
		5530	0.19	0.55	34.55	---	---
		5775	0.19	0.55	34.55	---	---
11AX160SISO	Ant1	5250	0.13	0.49	26.53	---	---
		5570	0.13	0.49	26.53	---	---

Test Graphs

11A_Ant1_5180


11A_Ant1_5220


11A_Ant1_5240



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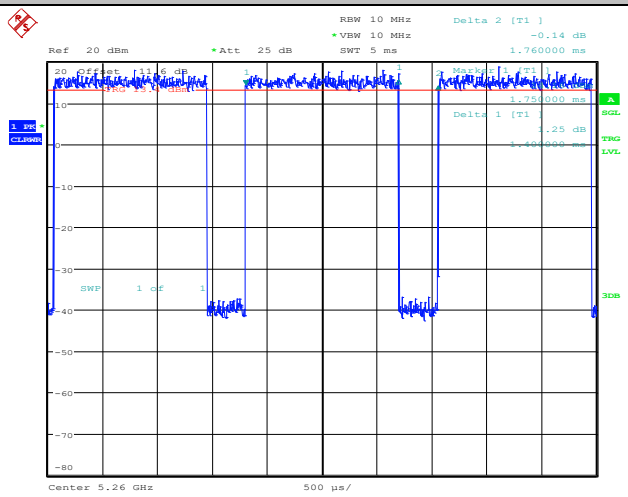

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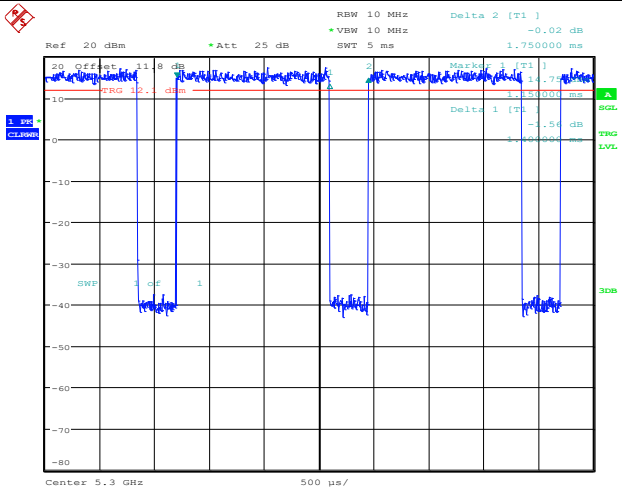

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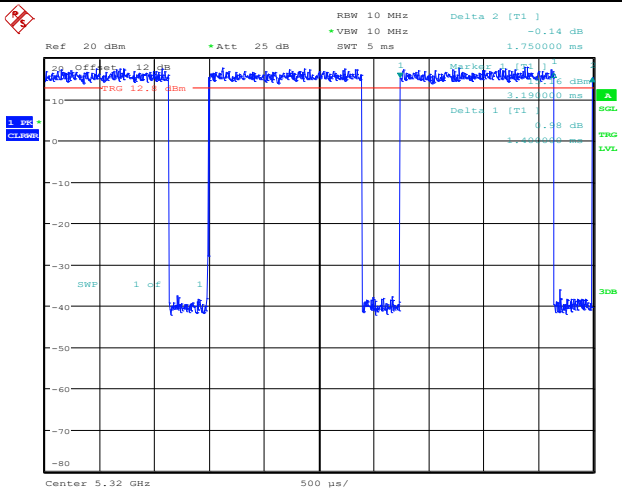

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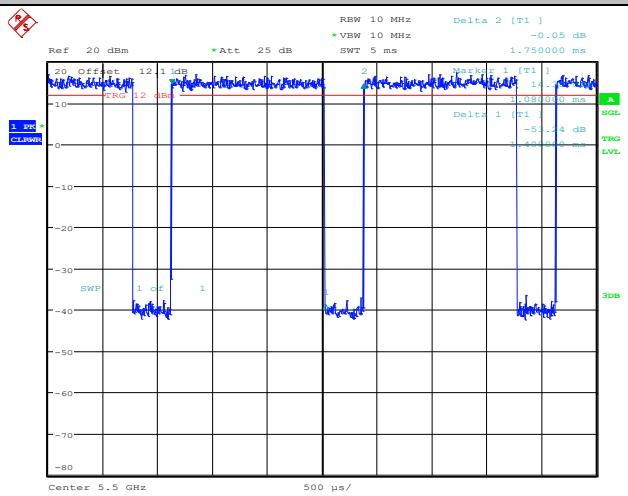

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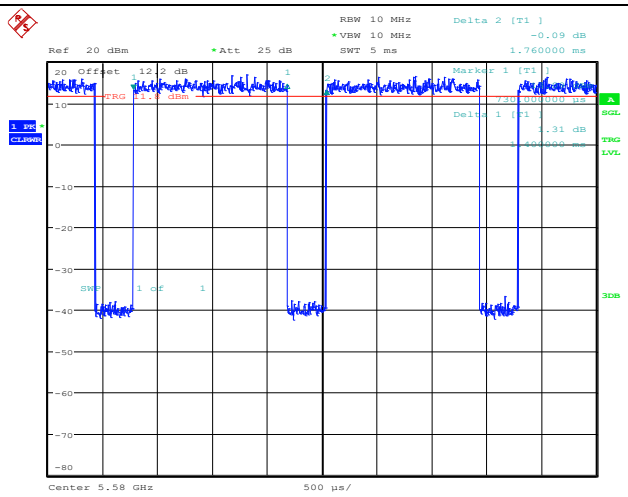

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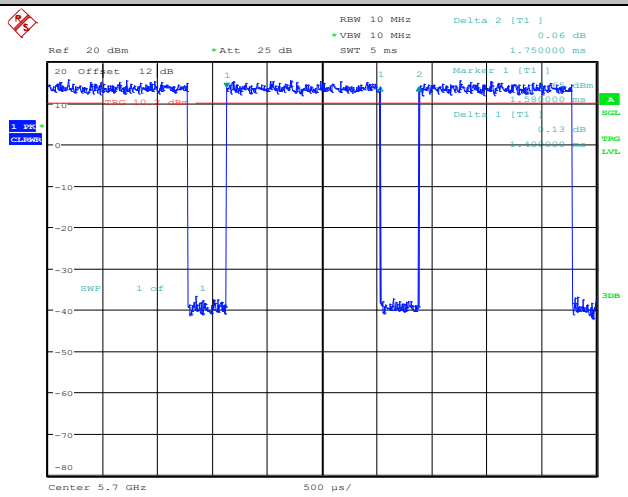

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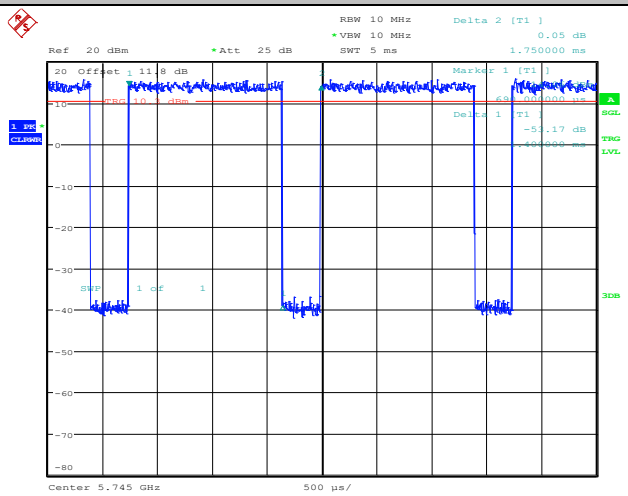

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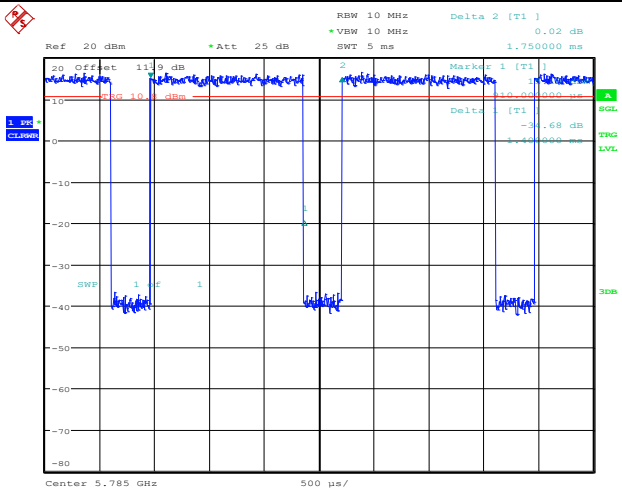

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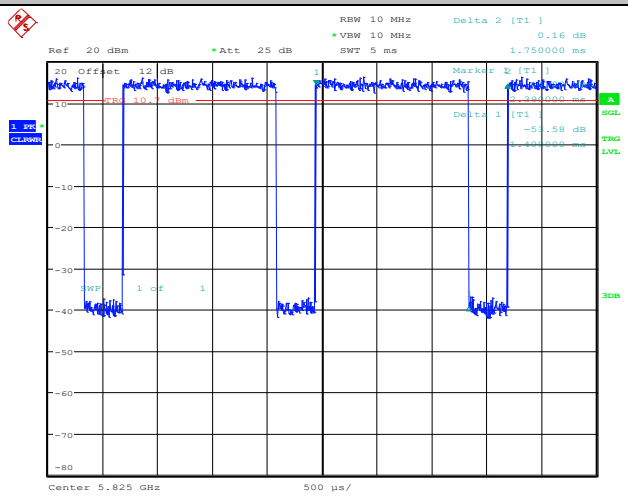

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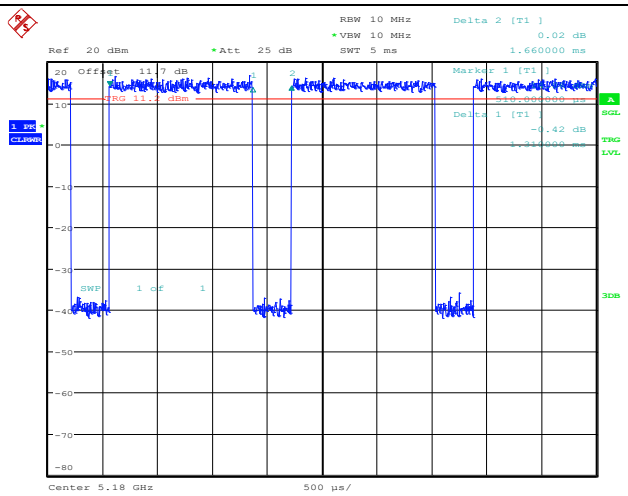

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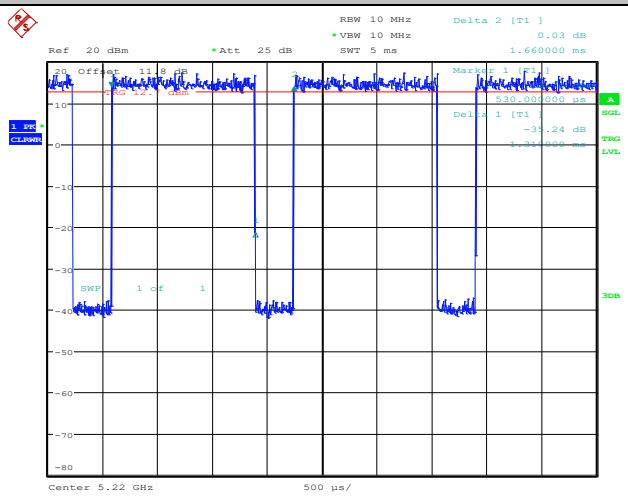

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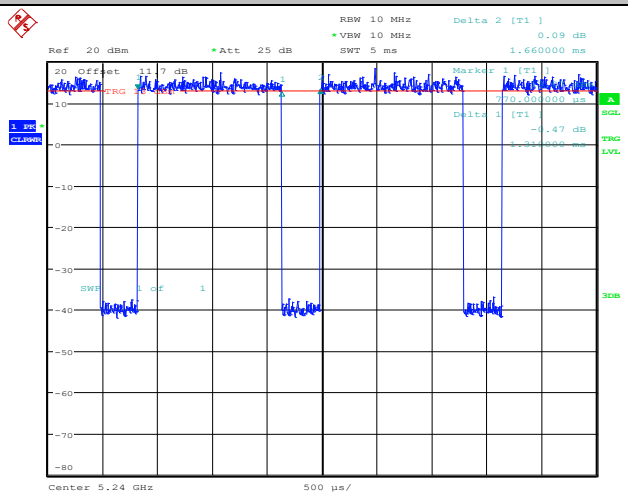

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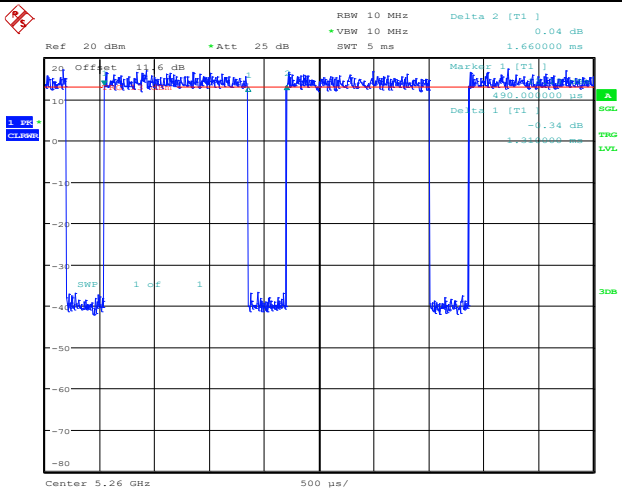

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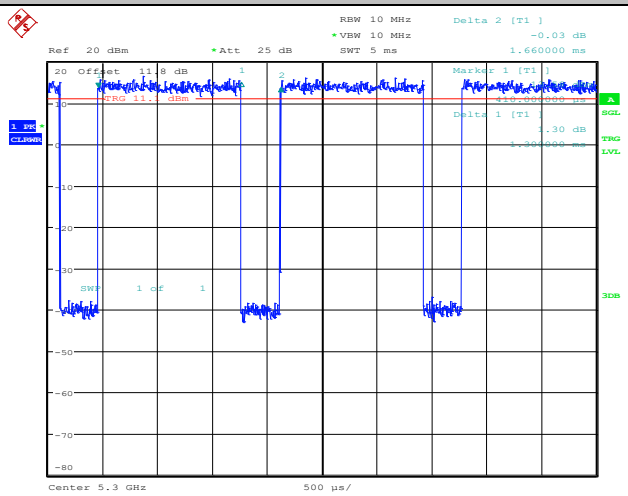

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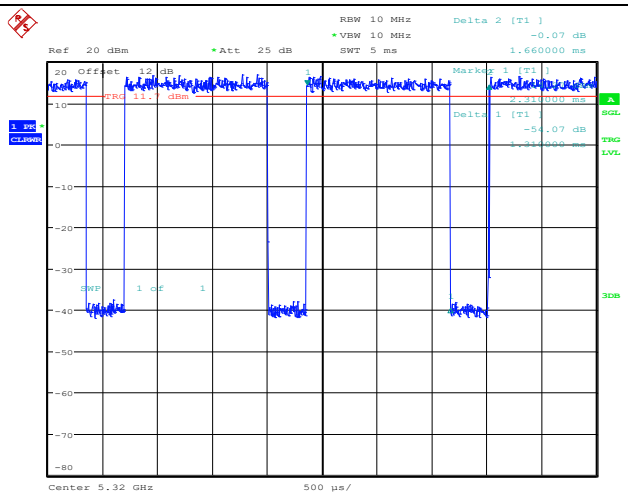

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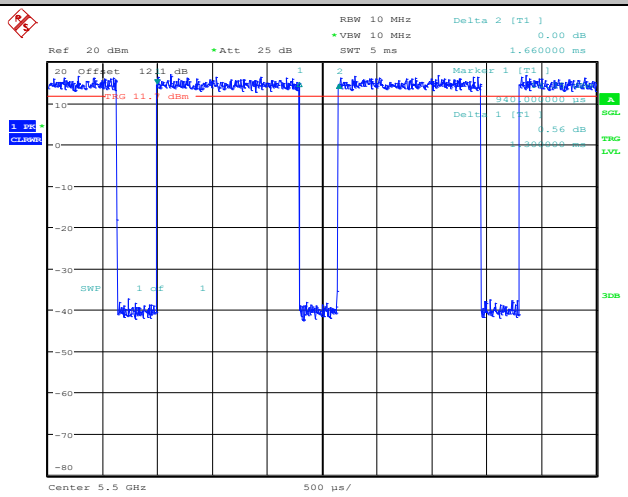

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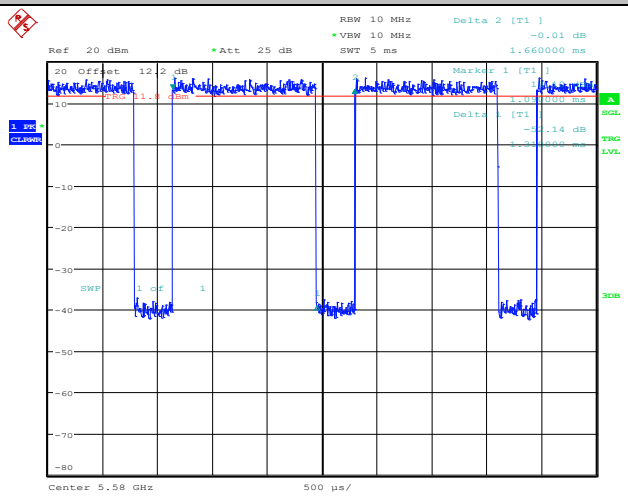

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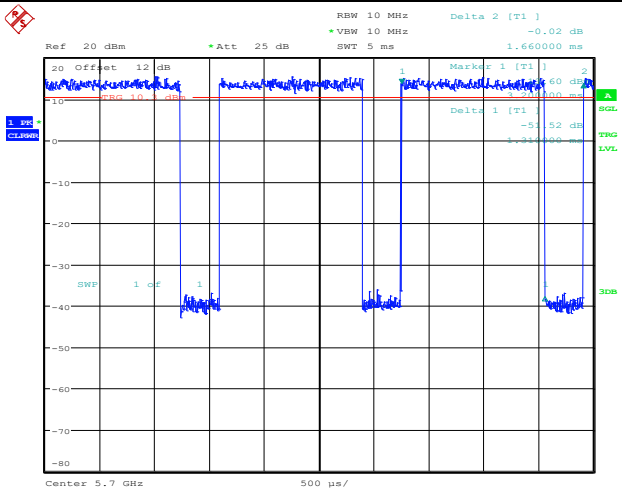

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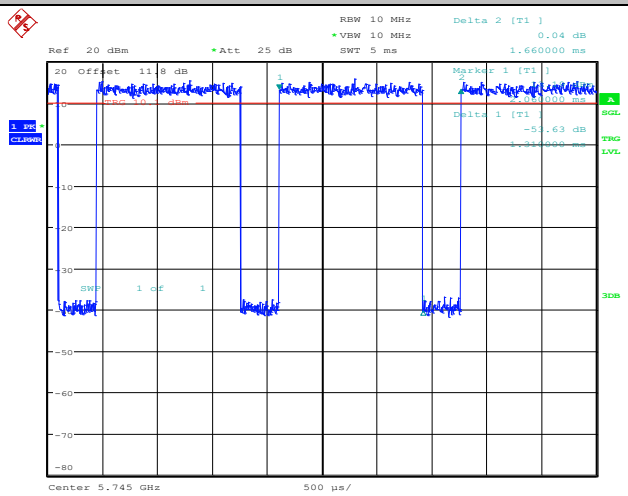

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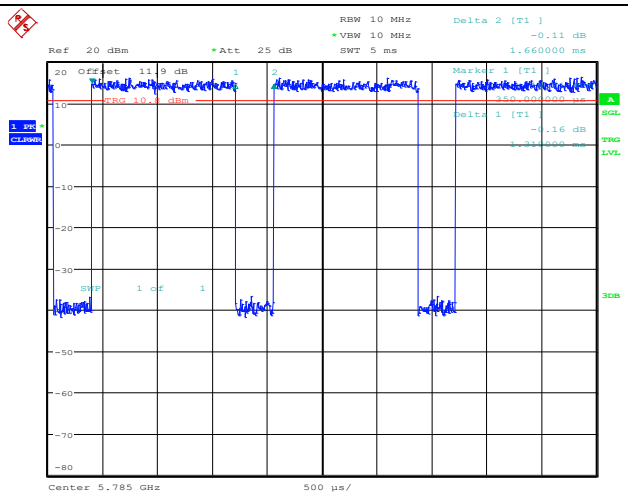

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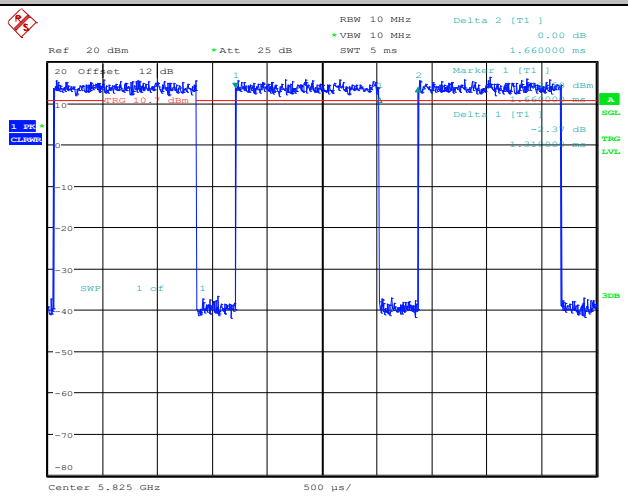

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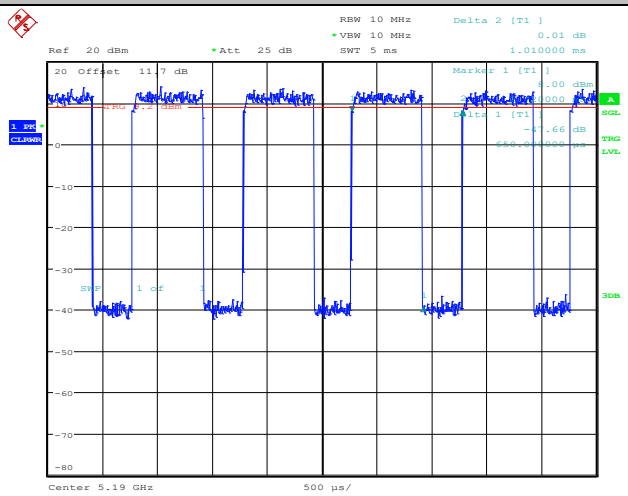

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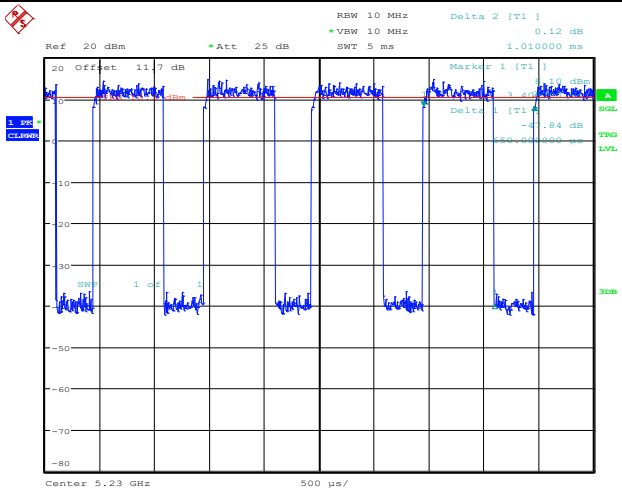

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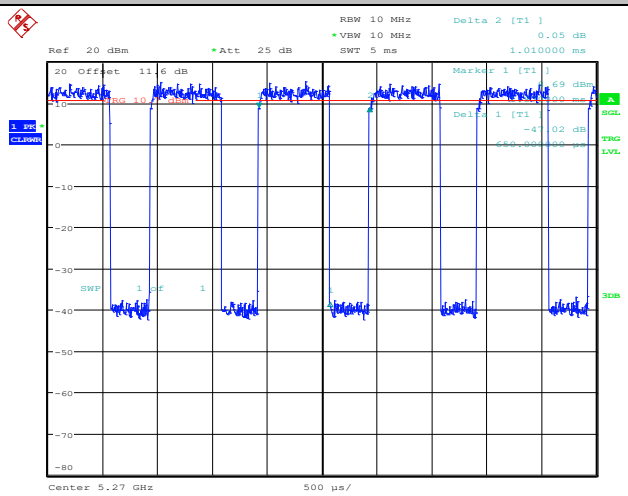

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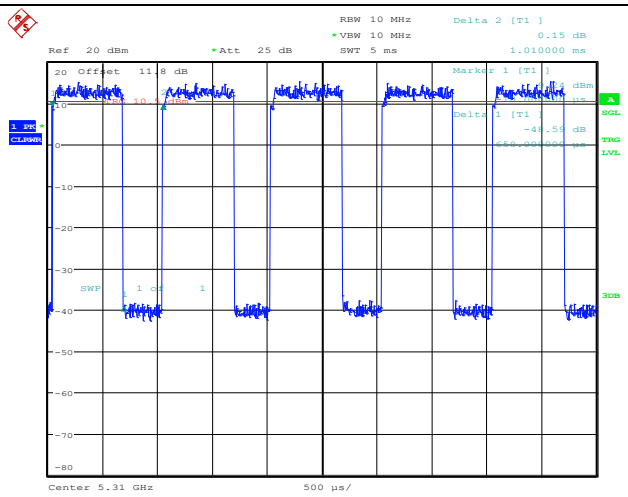

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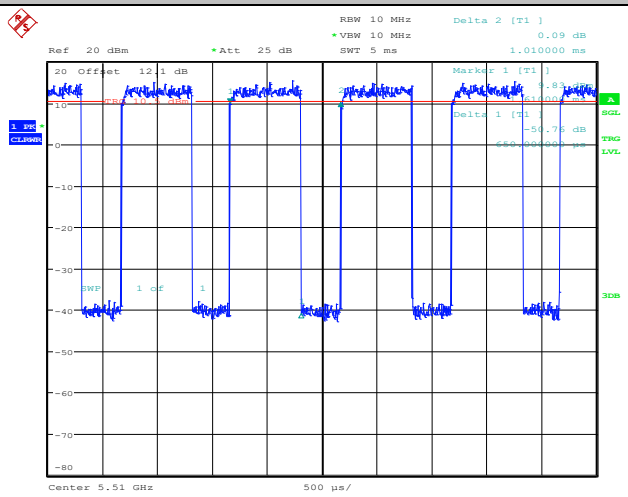

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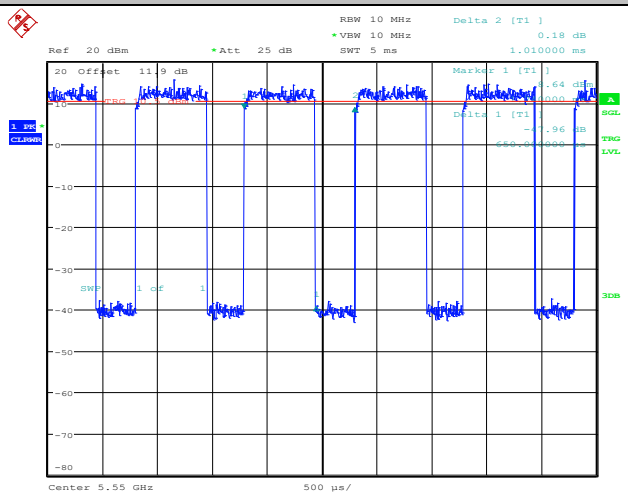

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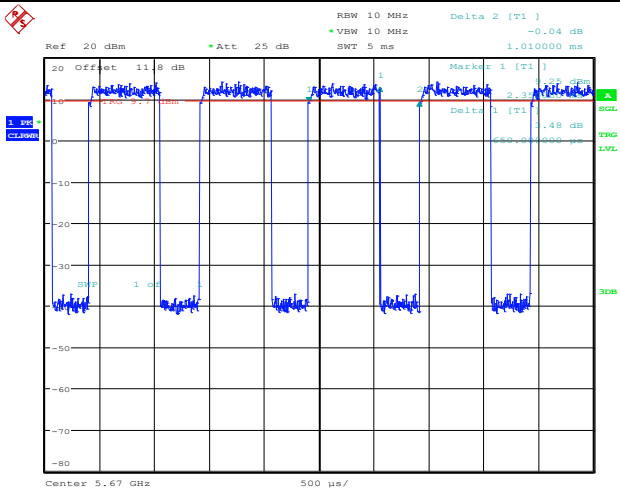

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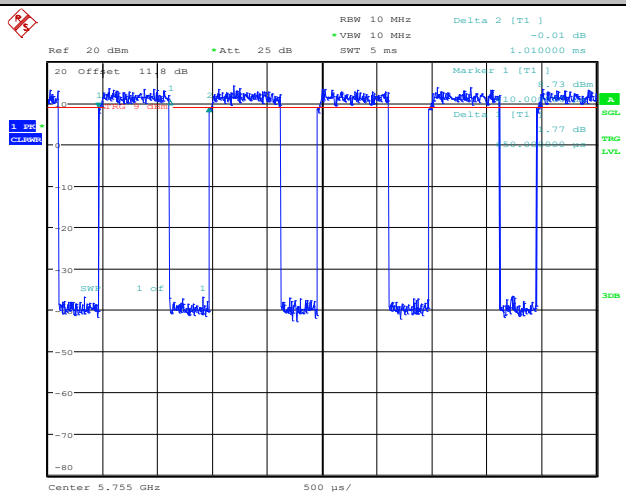

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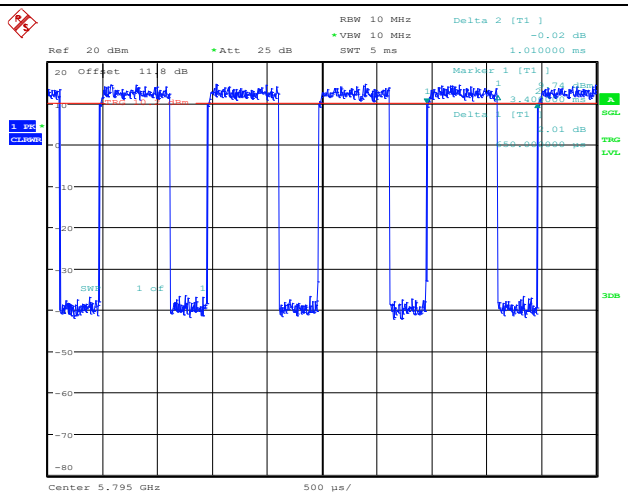

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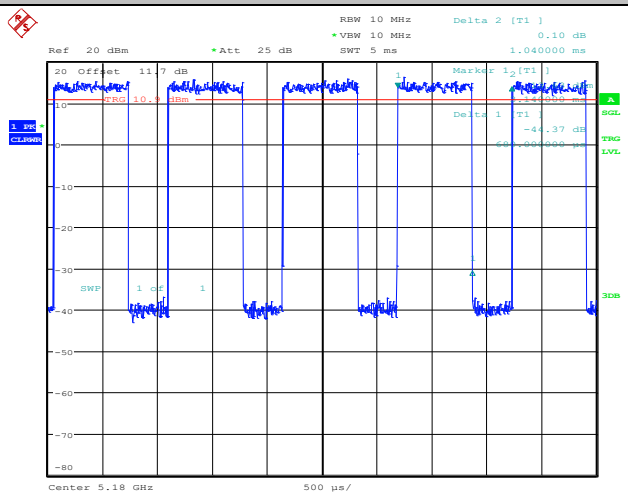

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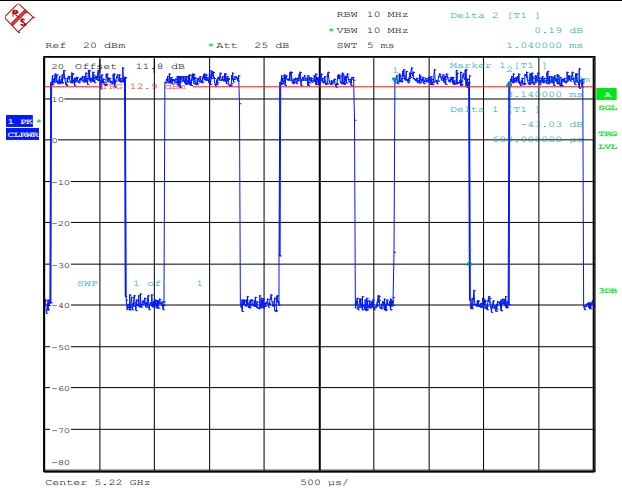

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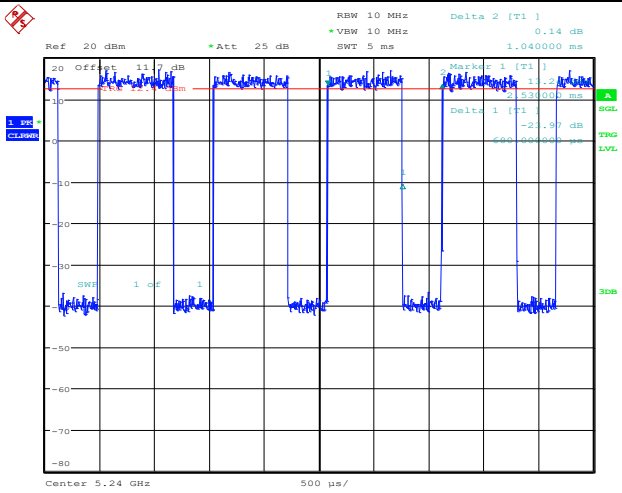

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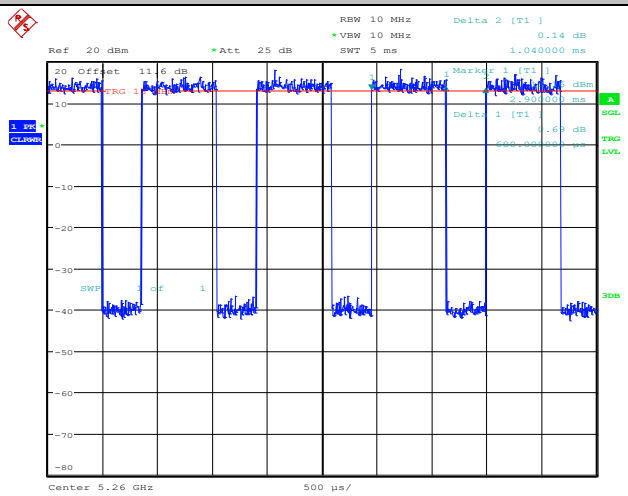
11AC20SISO_Ant1_5260



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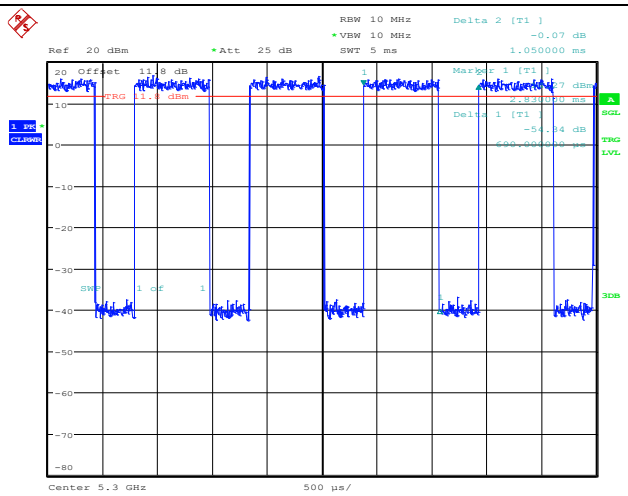

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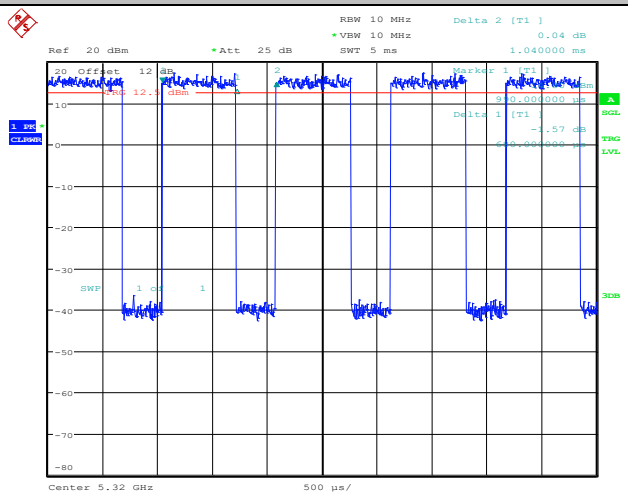

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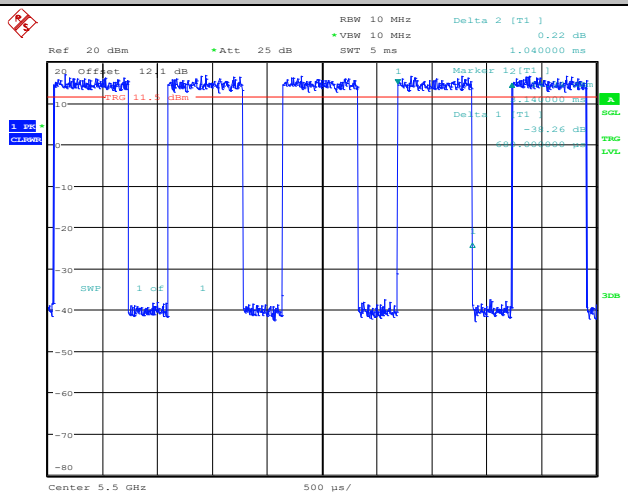

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