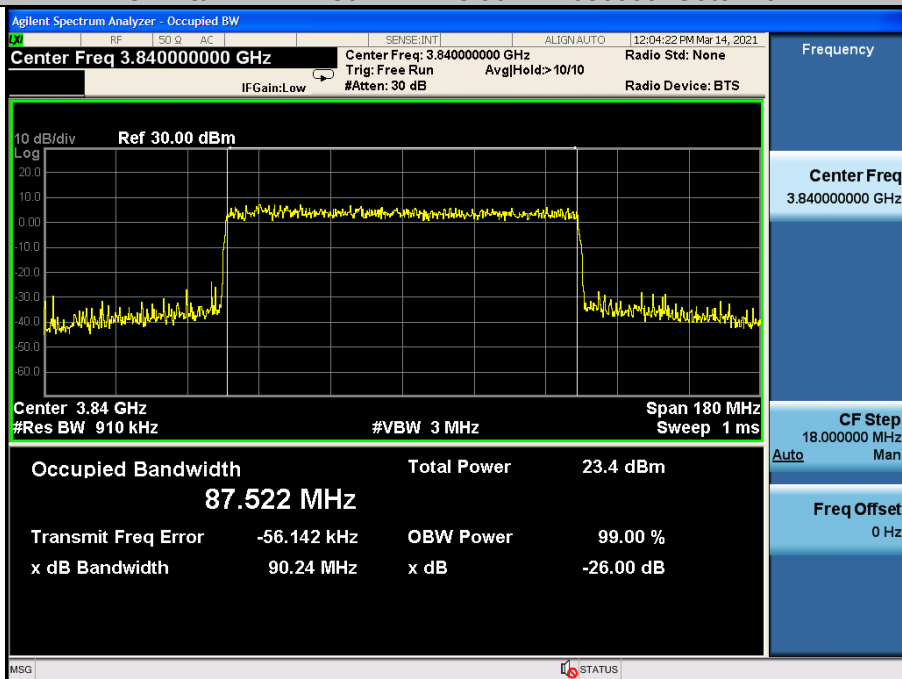
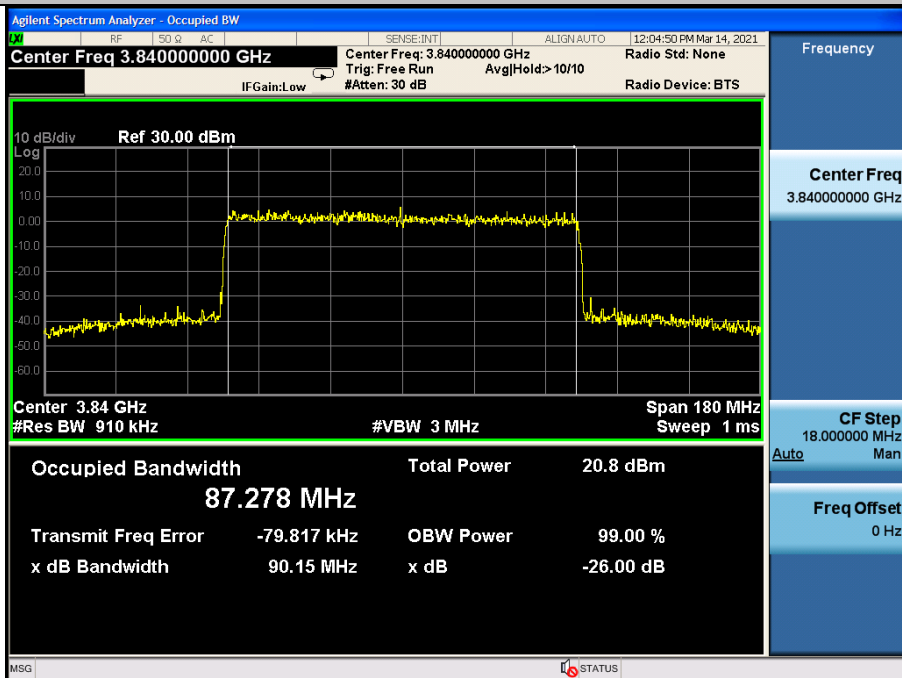


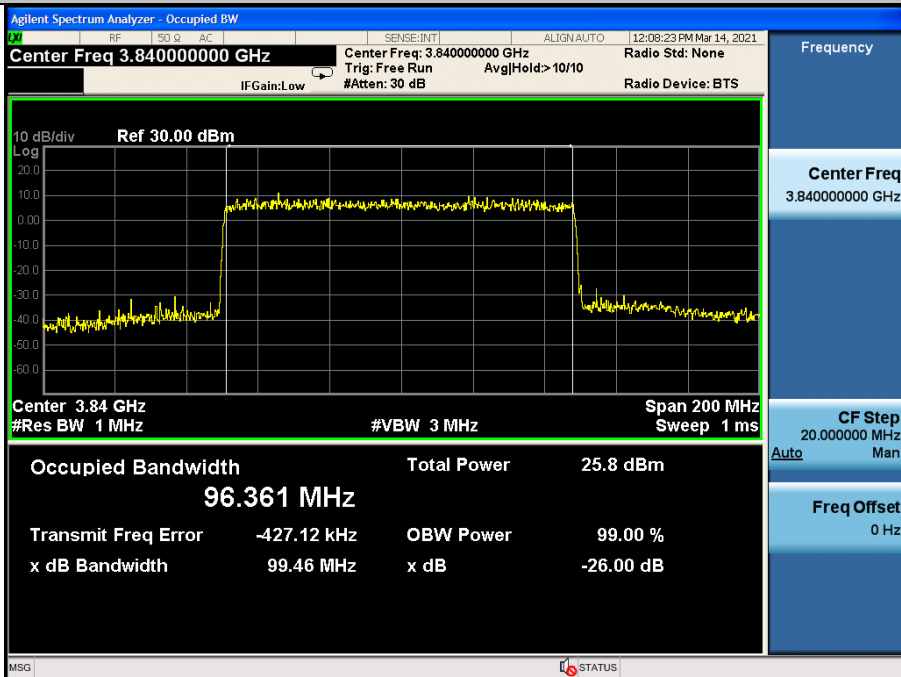
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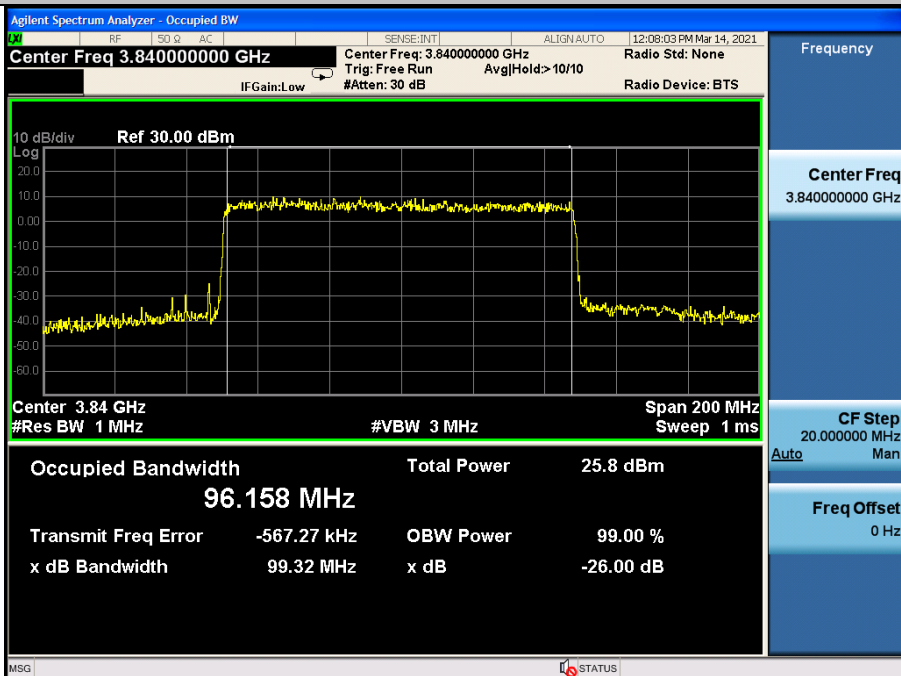
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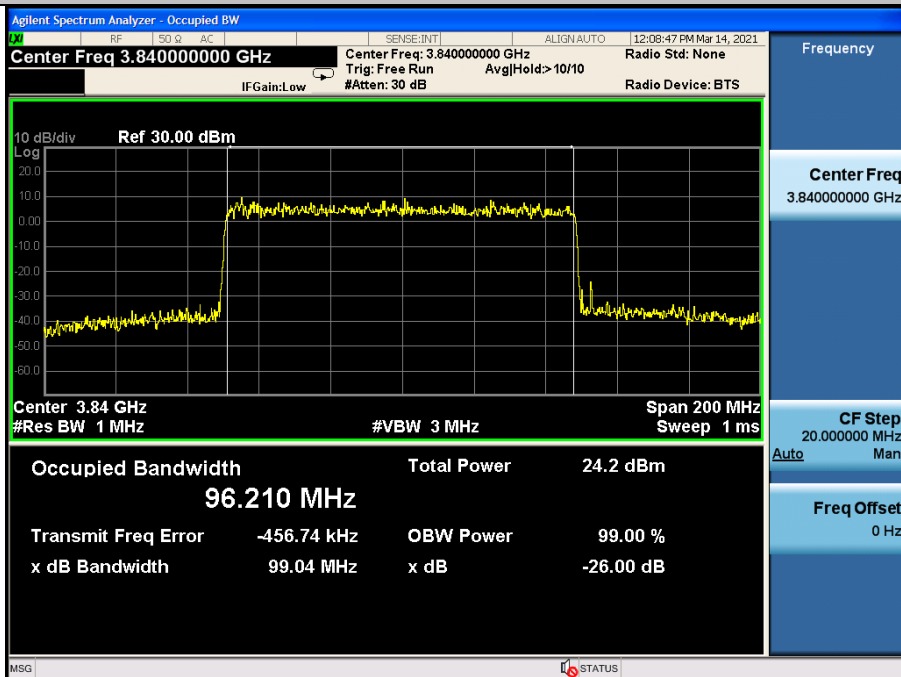
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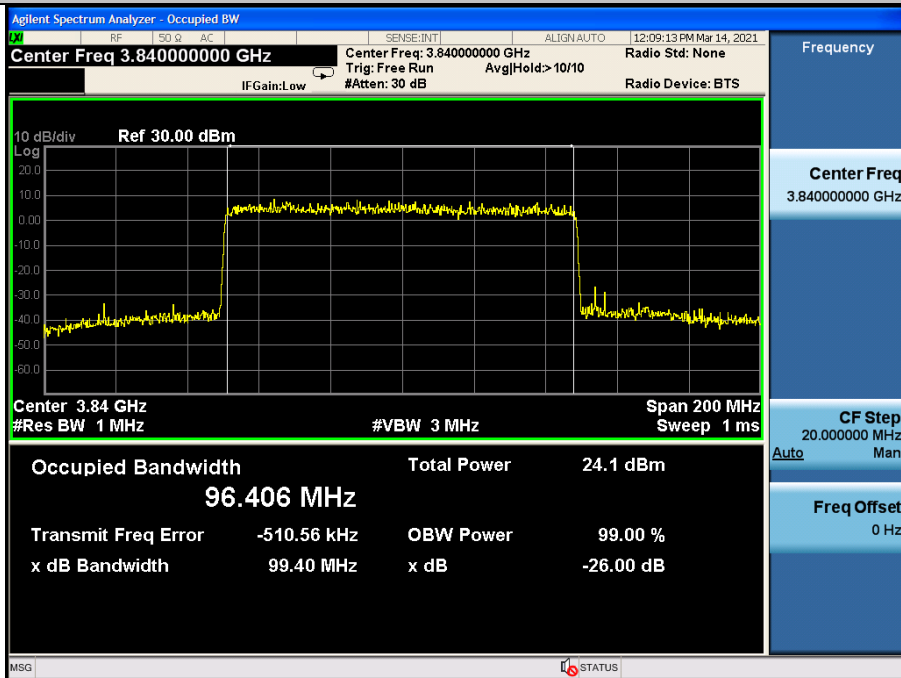
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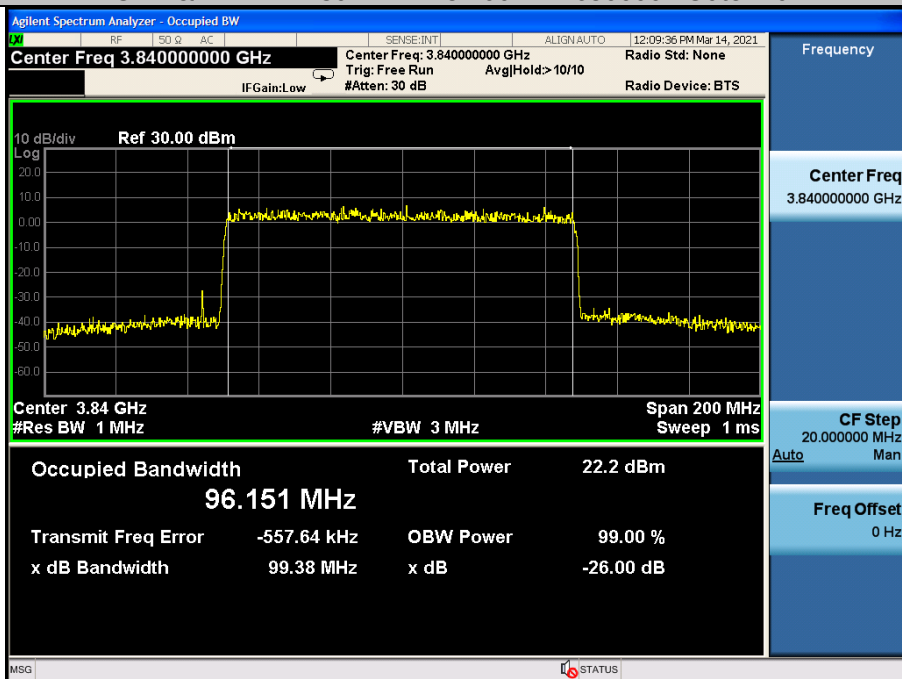
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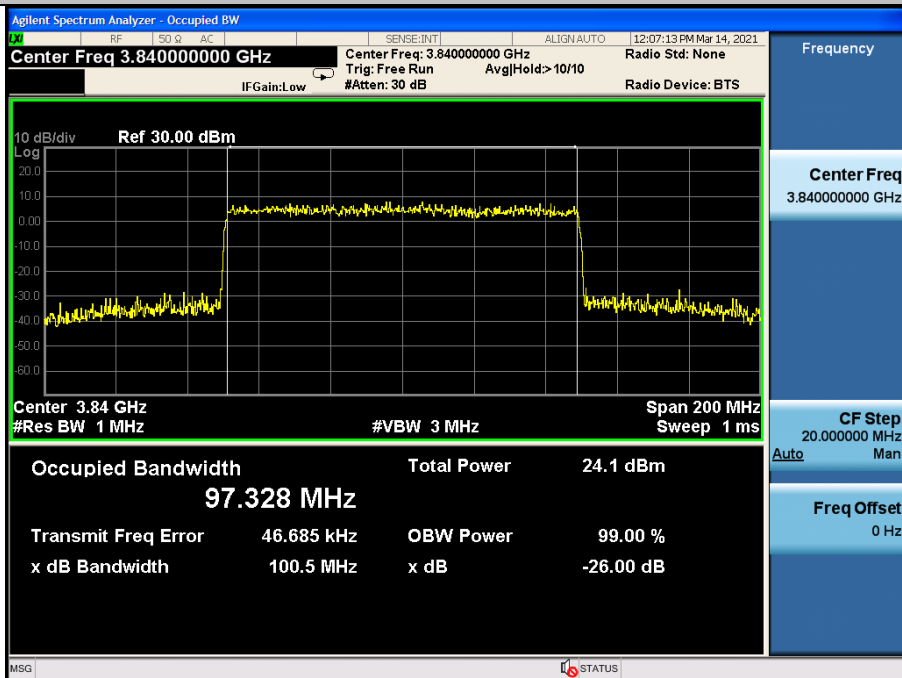
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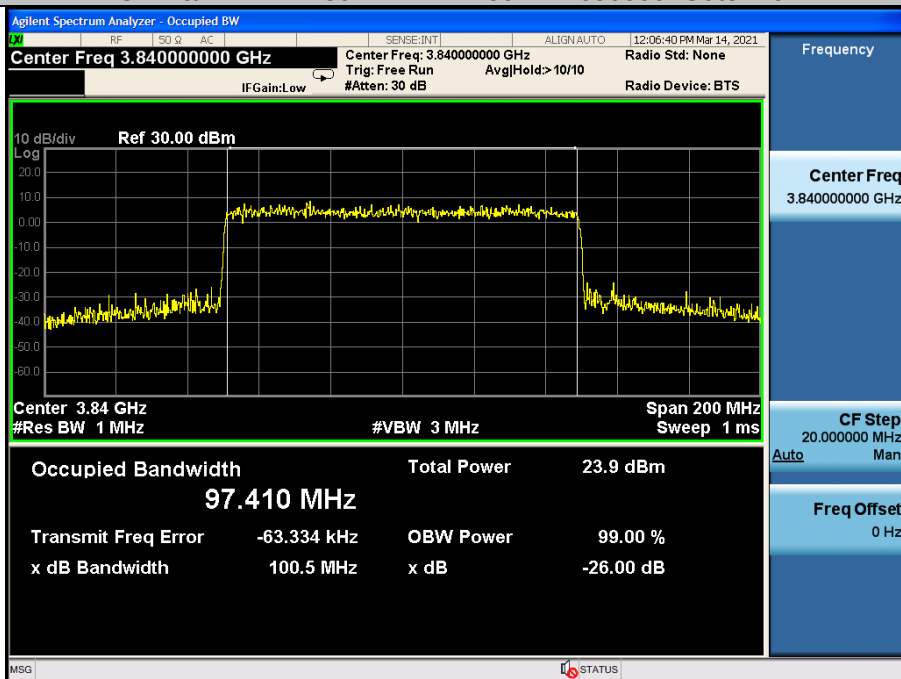
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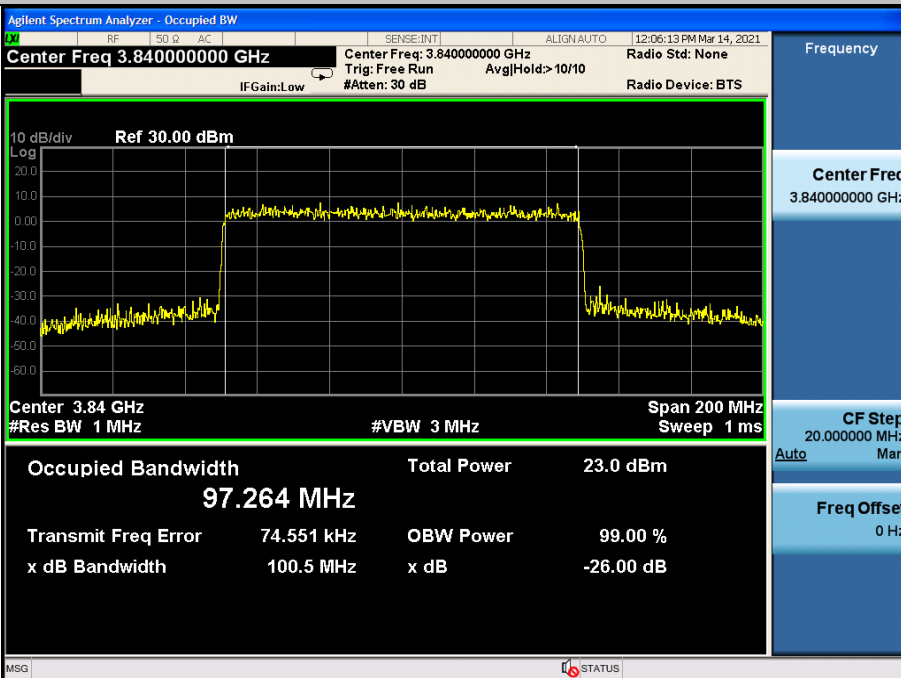
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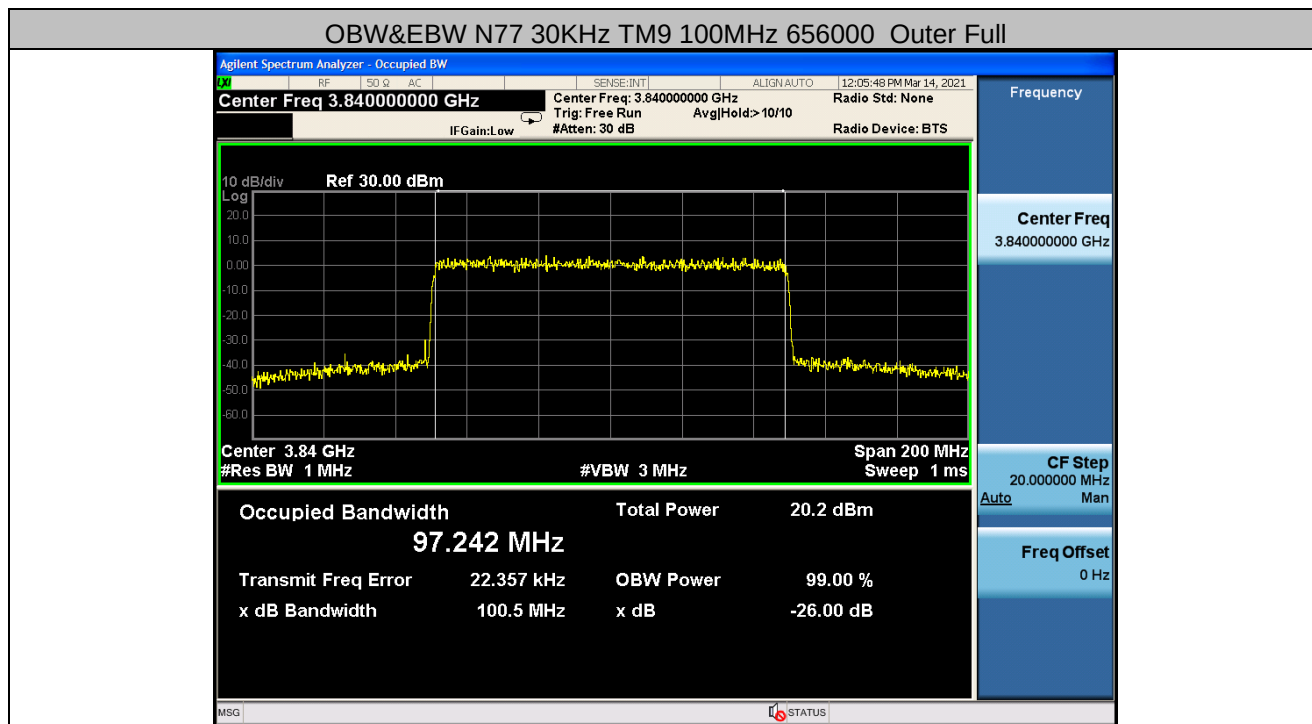


OBW&EBW N77 30KHz TM7 100MHz 656000 Outer Full



OBW&EBW N77 30KHz TM8 100MHz 656000 Outer Full





REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report



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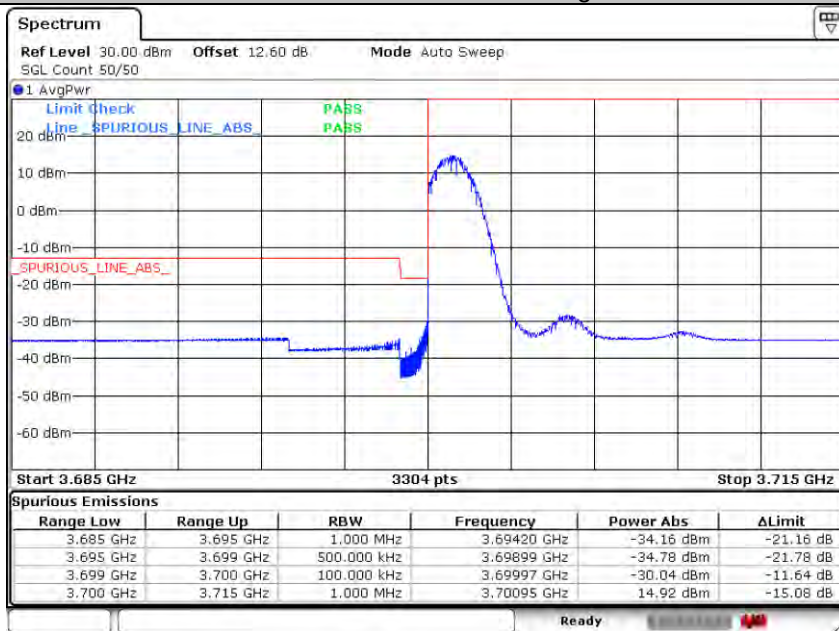
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5 Band Edges Compliance

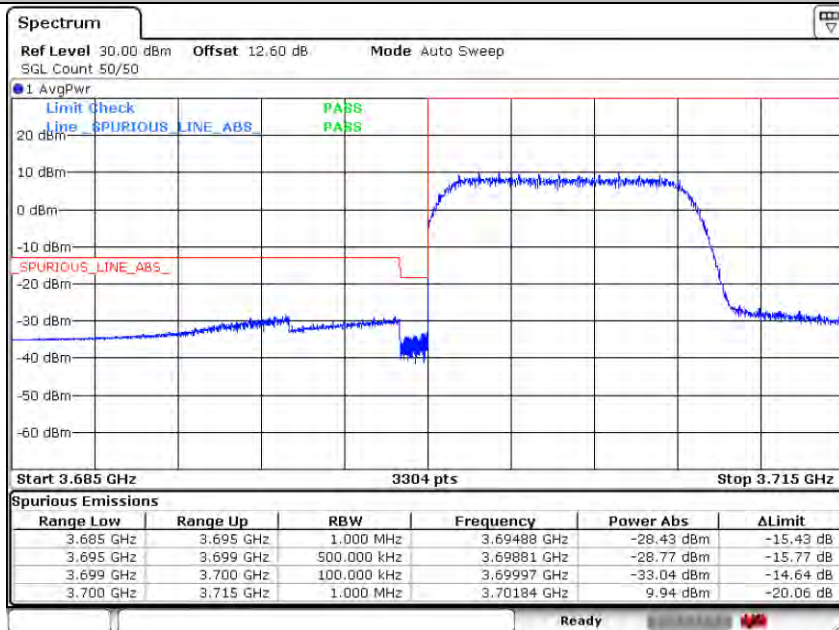
5.1 Test Plots

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Date: 9 MAR 2021 08:51:32

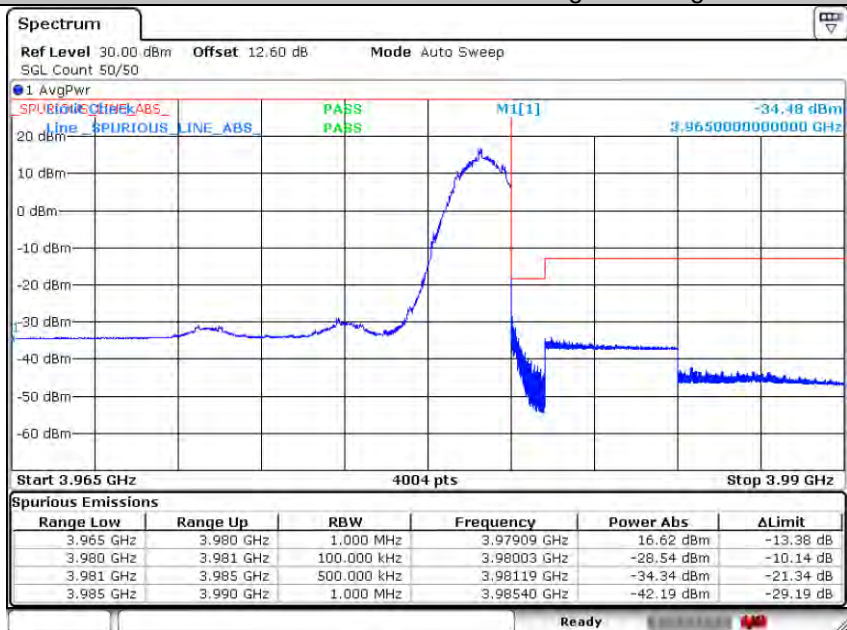
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Date: 9 MAR 2021 08:52:53

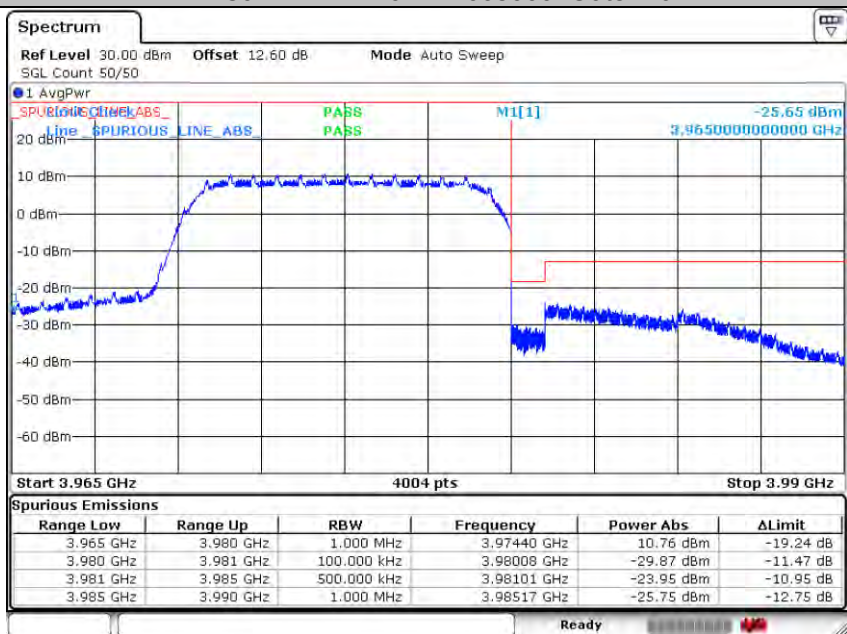


N77 30KHz TM1 10MHz 665000 Edge 1RB Right



Date: 9 MAR 2021 09:24:47

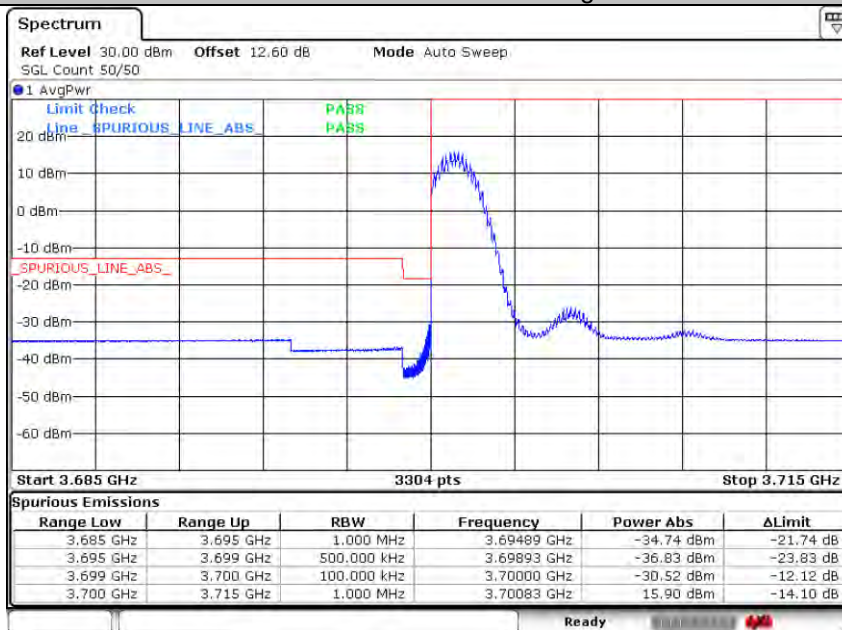
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Date: 9 MAR 2021 09:26:14

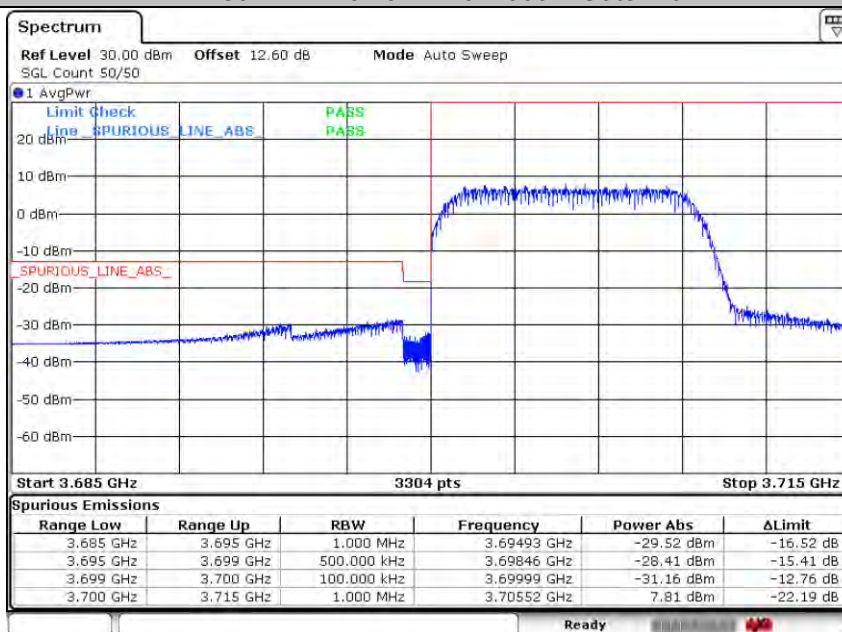


N77 30KHz TM6 10MHz 647000 Edge 1RB Left



Date: 9 MAR 2021 09:02:28

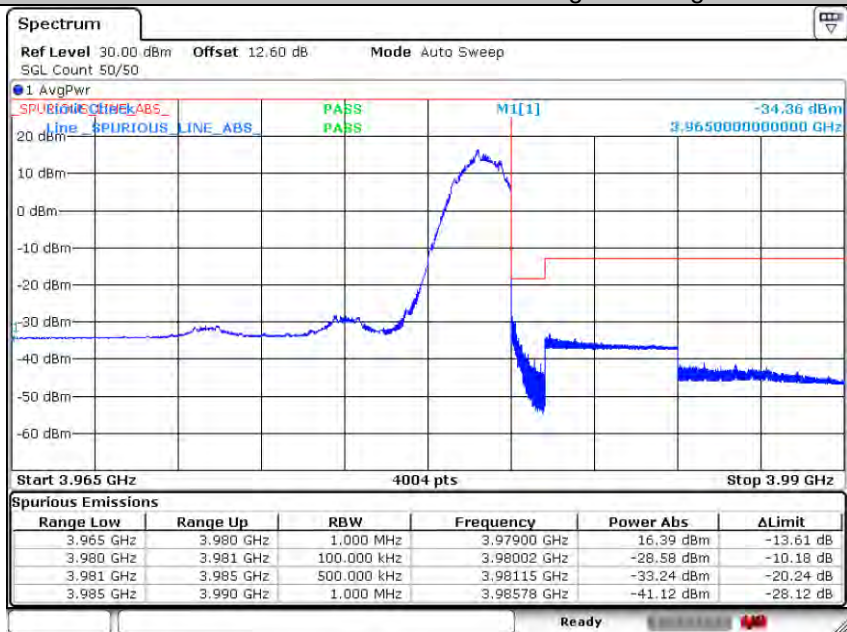
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Date: 9 MAR 2021 09:00:27

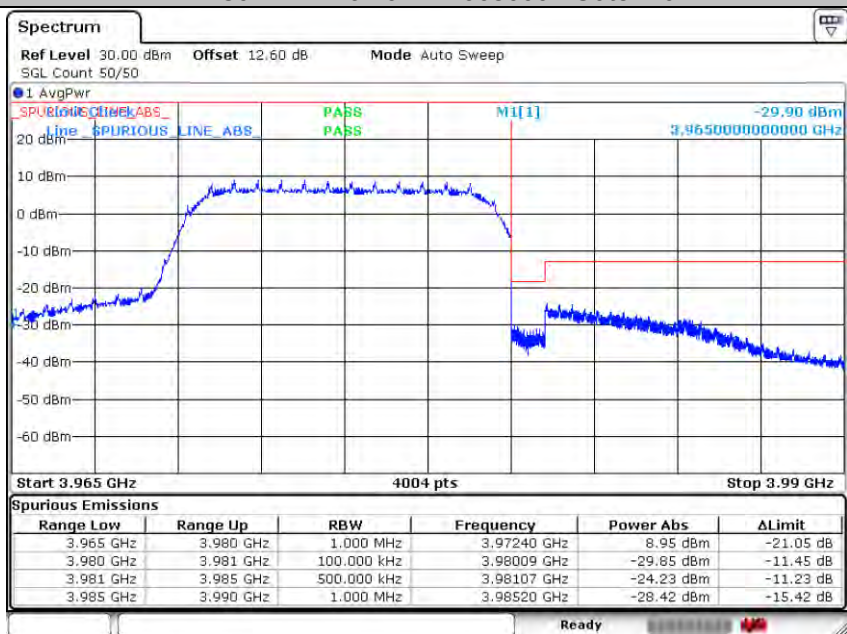


N77 30KHz TM6 10MHz 665000 Edge 1RB Right



Date: 9 MAR 2021 09:30:26

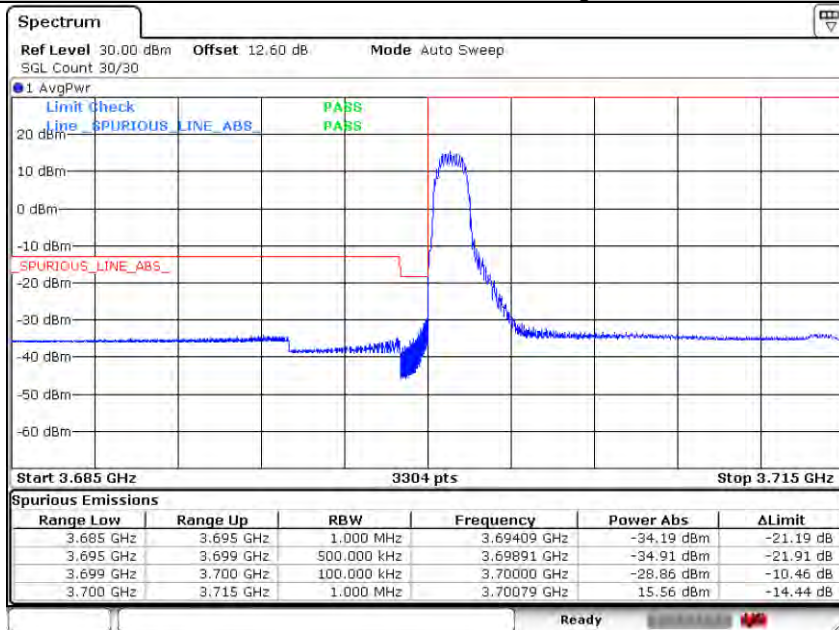
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Date: 9 MAR 2021 09:29:18

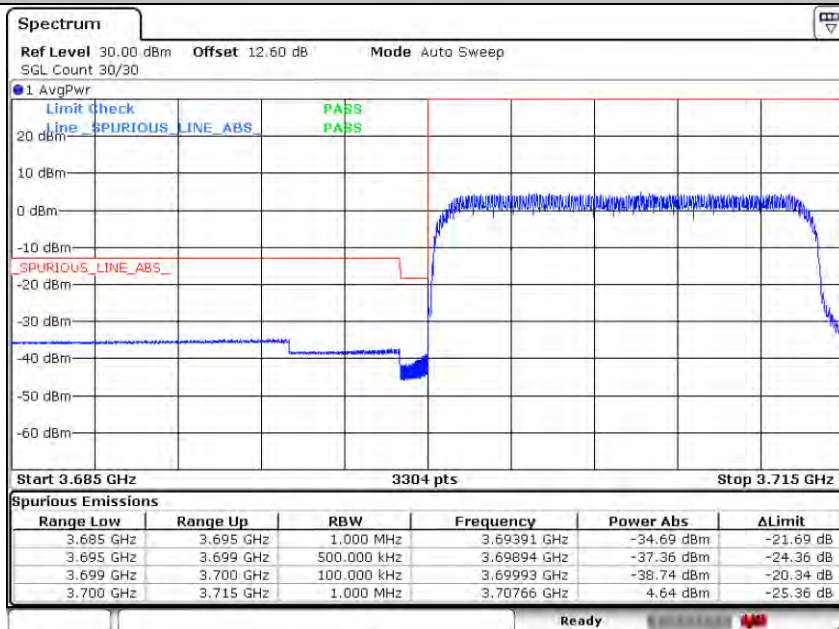


N77 30KHz TM1 15MHz 647168 Edge 1RB Left



Date: 7.MAR.2021 11:28:15

N77 30KHz TM1 15MHz 647168 Outer Full



Date: 7.MAR.2021 11:26:26



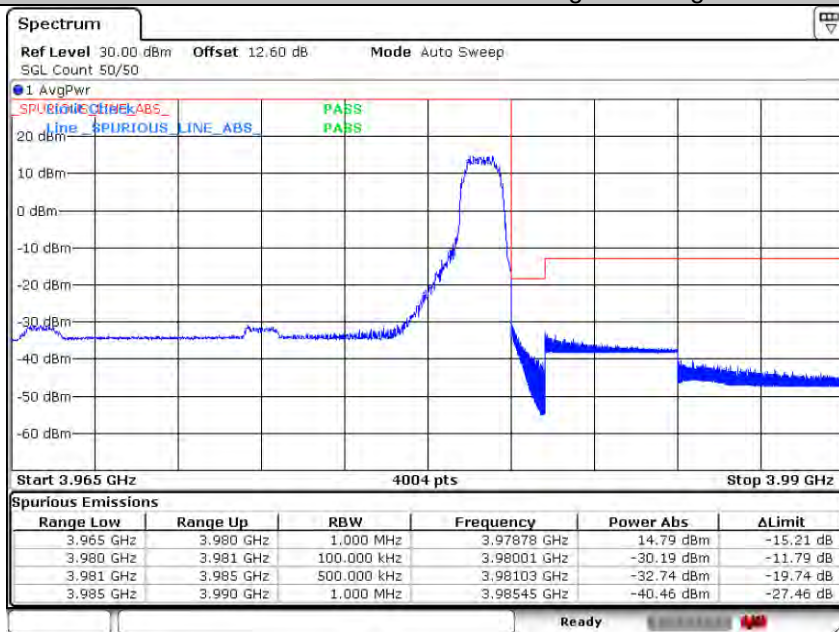
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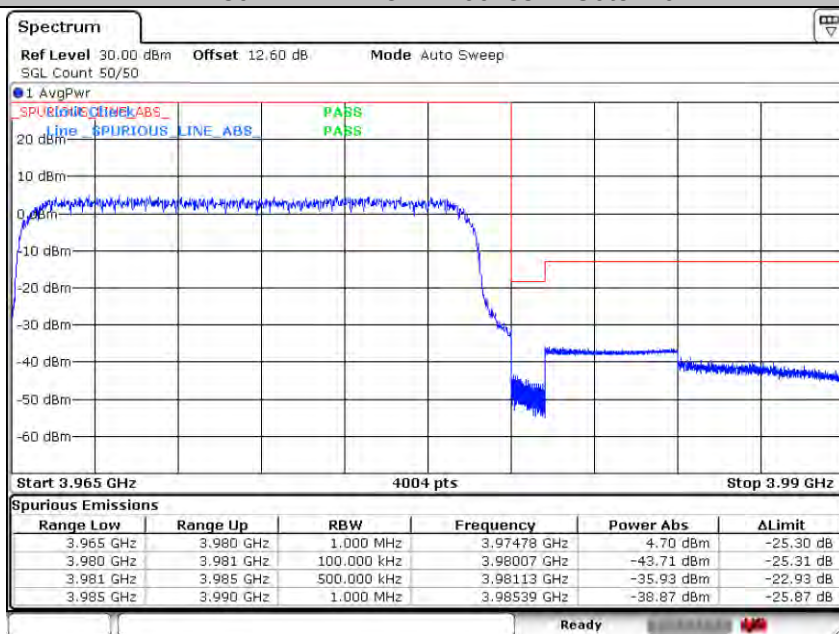
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N77 30KHz TM1 15MHz 664832 Edge 1RB Right



Date: 7.MAR.2021 16:30:50

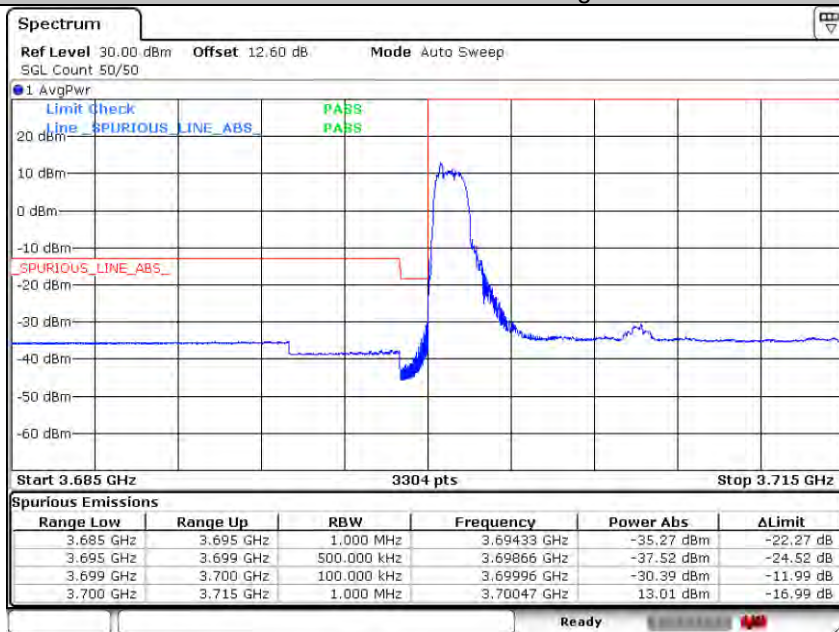
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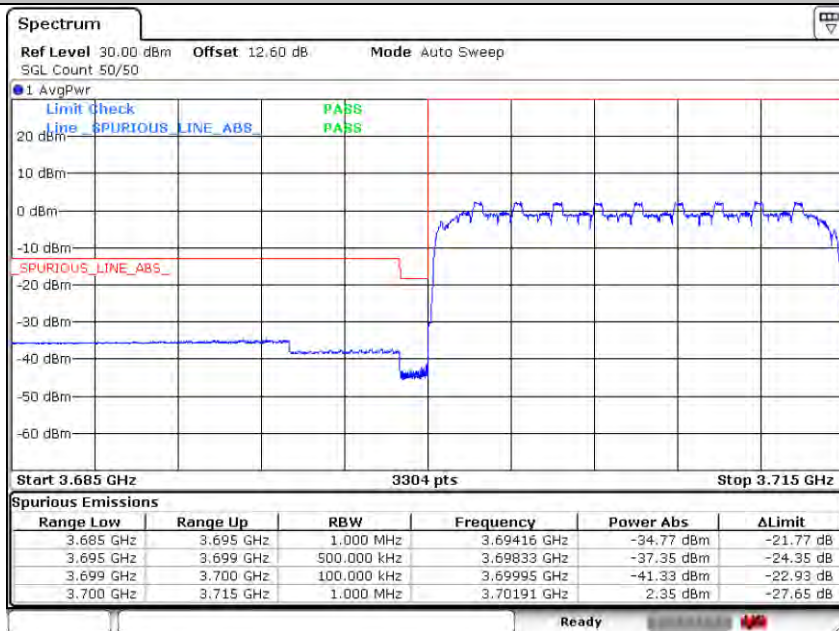


N77 30KHz TM6 15MHz 647168 Edge 1RB Left



Date: 7.MAR.2021 11:31:29

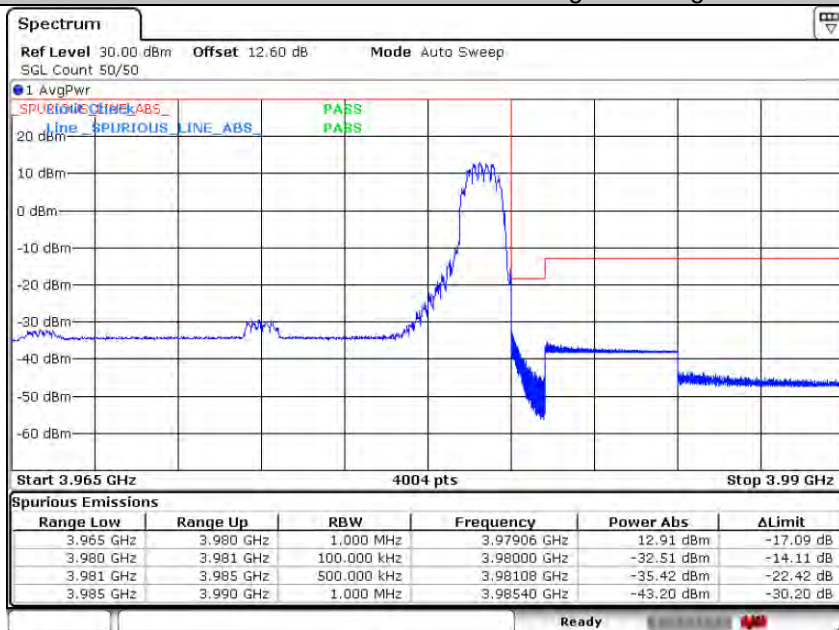
N77 30KHz TM6 15MHz 647168 Outer Full



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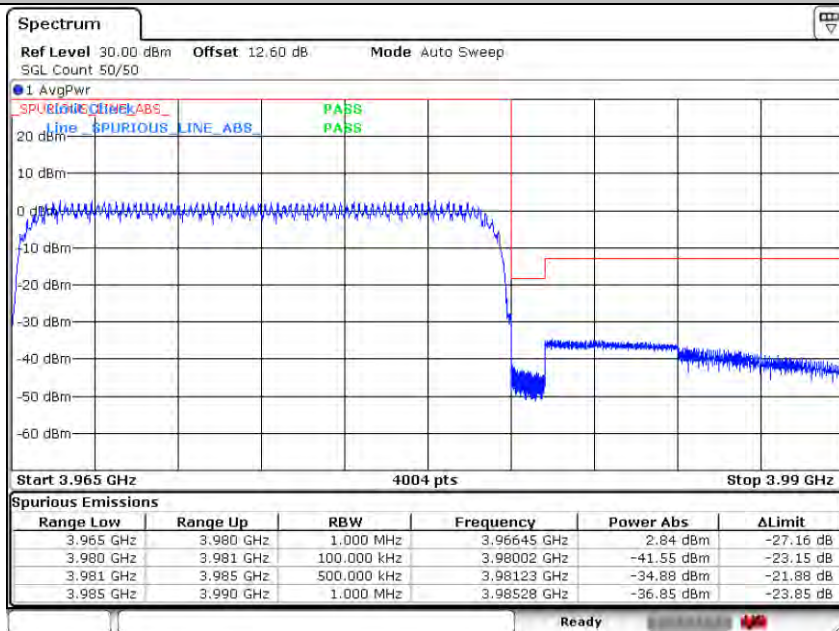


N77 30KHz TM6 15MHz 664832 Edge 1RB Right



Date: 7.MAR.2021 16:09:49

N77 30KHz TM6 15MHz 664832 Outer Full



Date: 7.MAR.2021 16:08:39



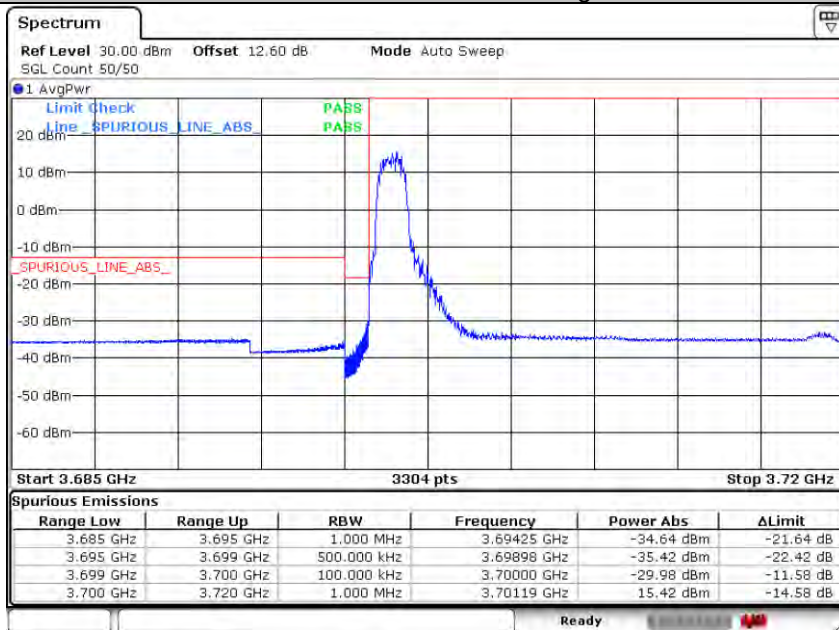
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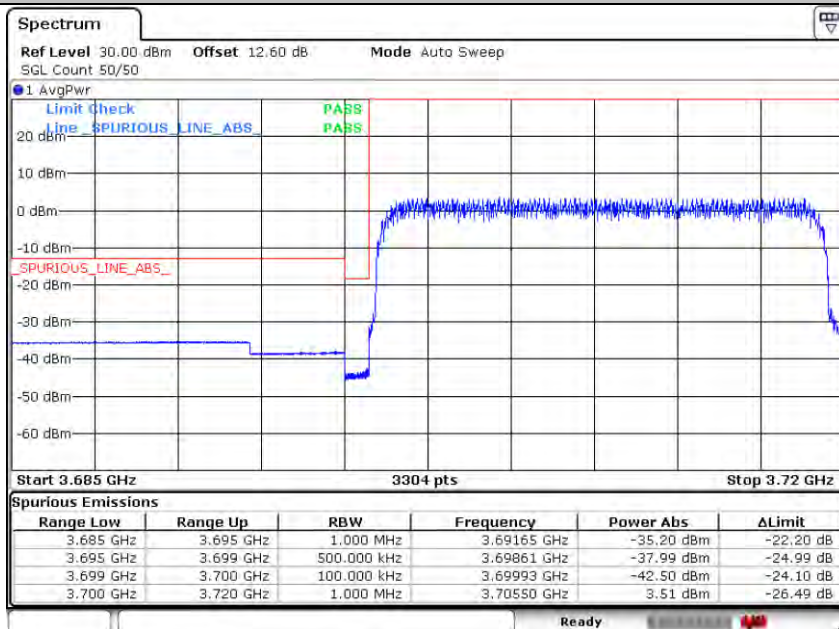
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N77 30KHz TM1 20MHz 647334 Edge 1RB Left



Date: 7.MAR.2021 11:39:16

N77 30KHz TM1 20MHz 647334 Outer Full



Date: 7.MAR.2021 11:40:10



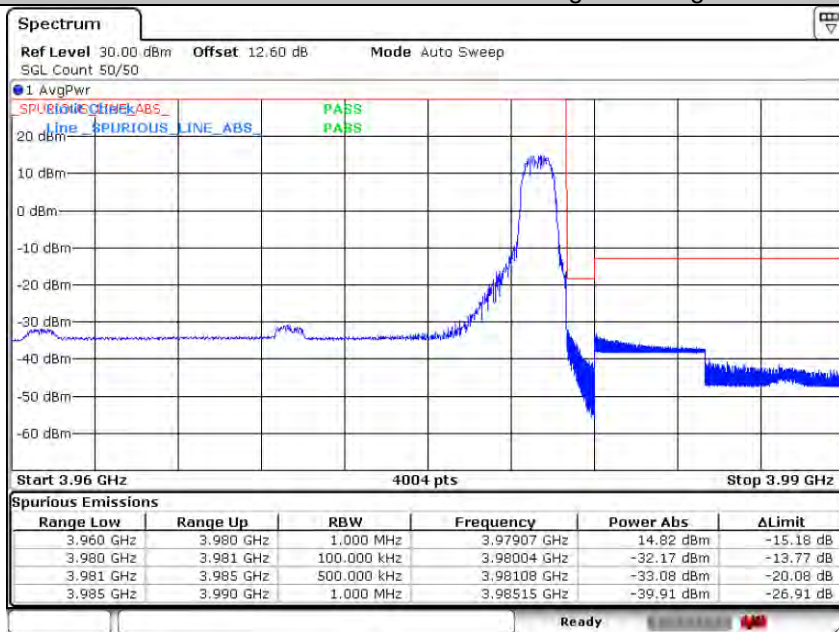
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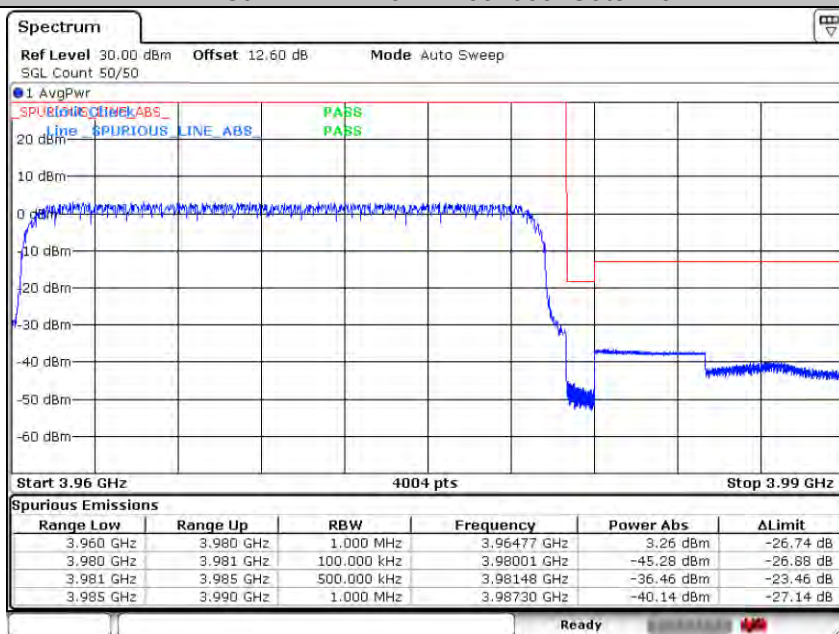
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N77 30KHz TM1 20MHz 664666 Edge 1RB Right



Date: 7.MAR.2021 16:00:56

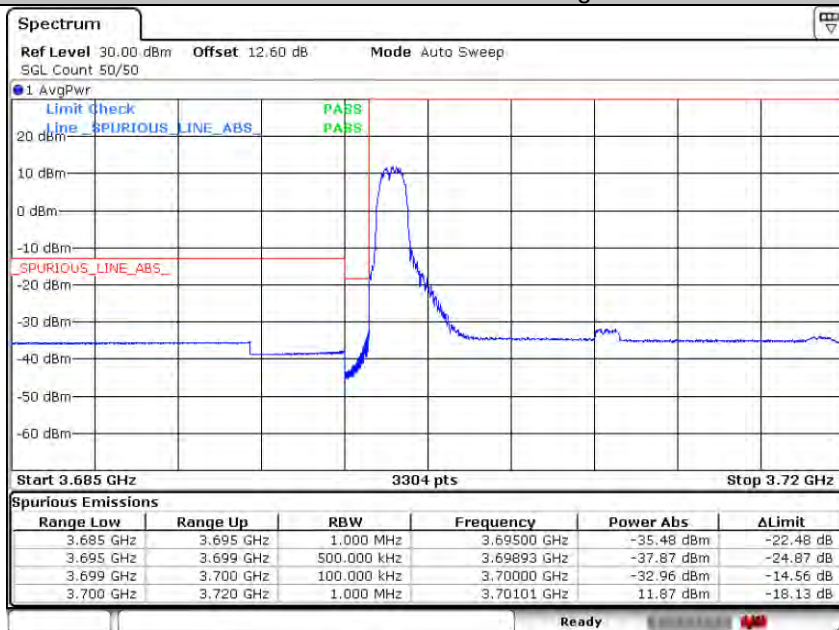
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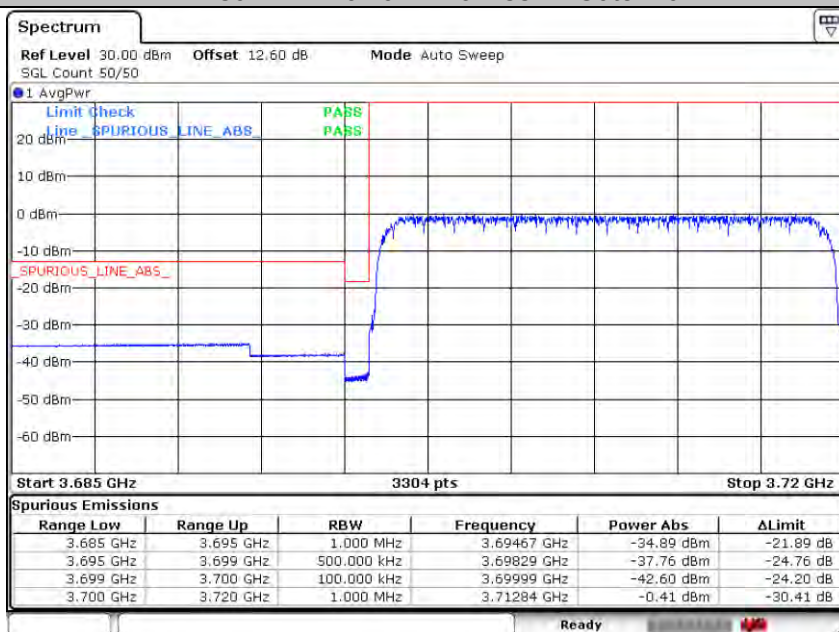


N77 30KHz TM6 20MHz 647334 Edge 1RB Left



Date: 7.MAR.2021 11:37:31

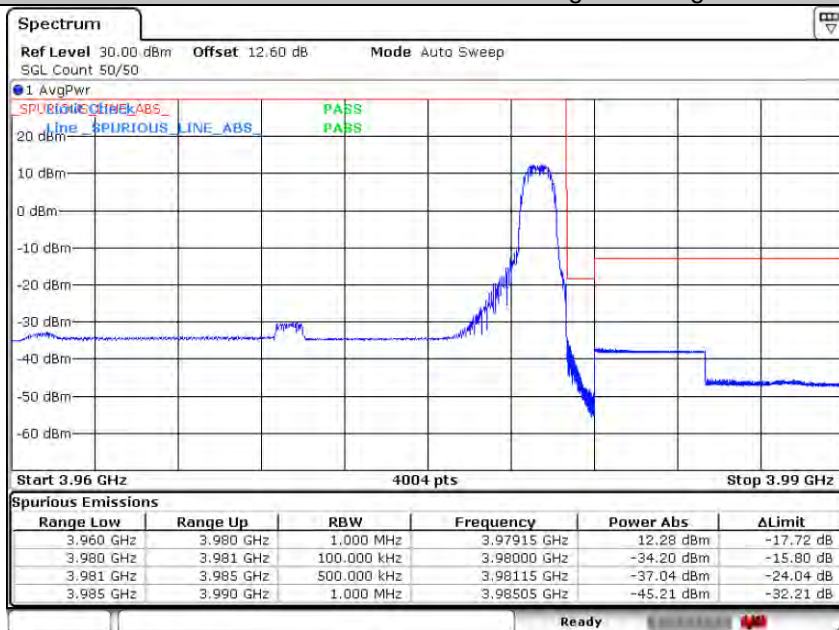
N77 30KHz TM6 20MHz 647334 Outer Full



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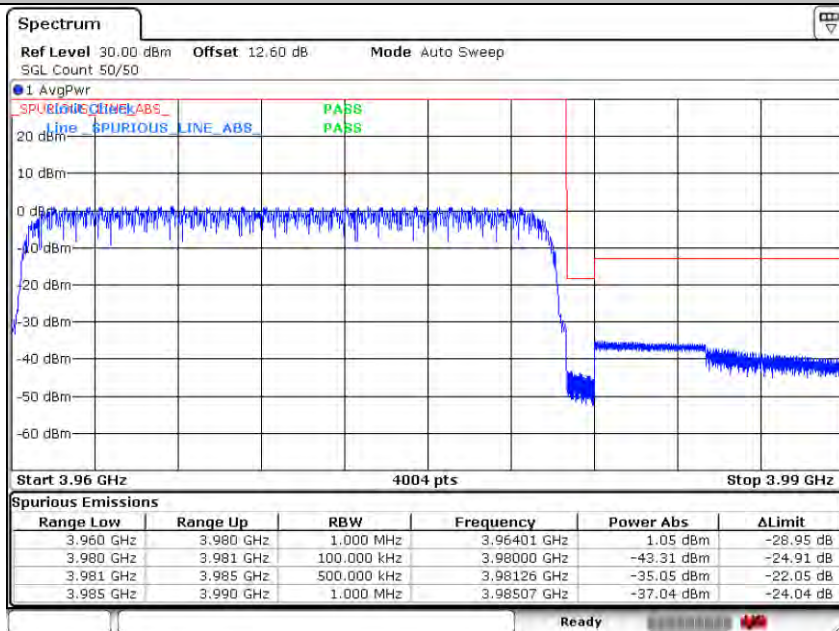


N77 30KHz TM6 20MHz 664666 Edge 1RB Right



Date: 7.MAR.2021 16:03:20

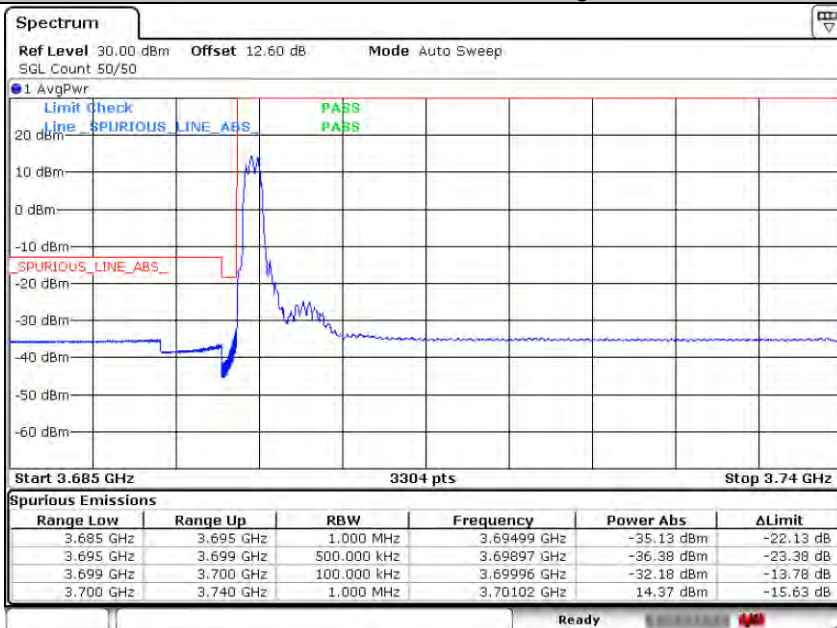
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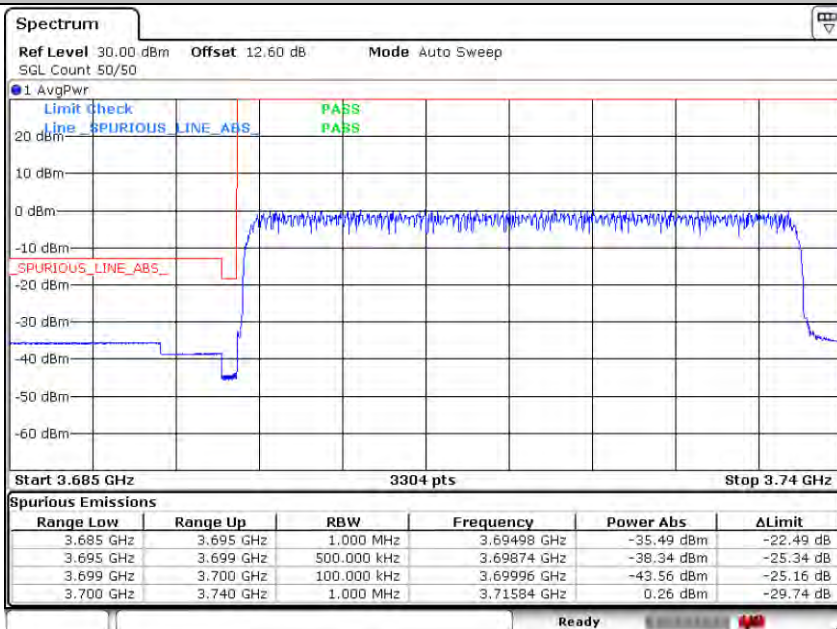


N77 30KHz TM1 40MHz 648000 Edge 1RB Left



Date: 7.MAR.2021 11:43:20

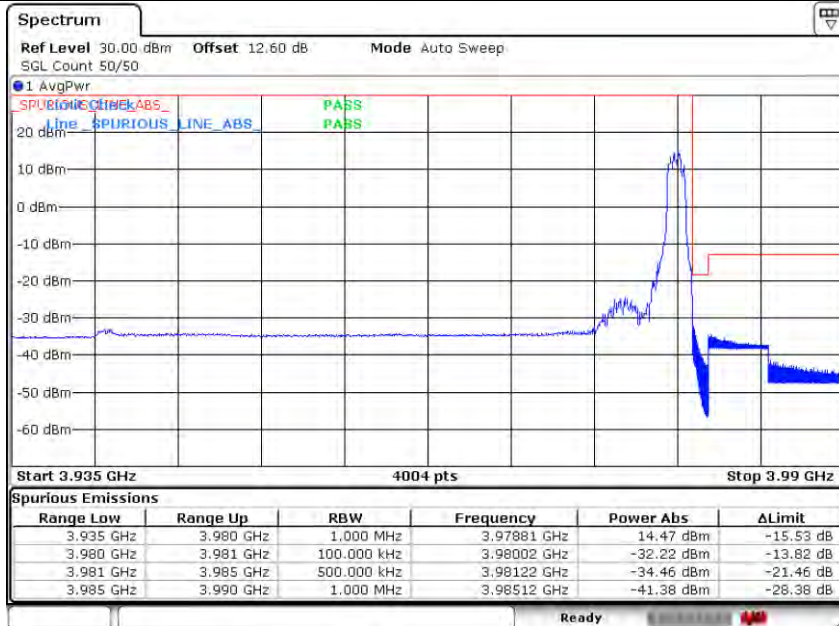
N77 30KHz TM1 40MHz 648000 Outer Full



Date: 7.MAR.2021 11:42:35

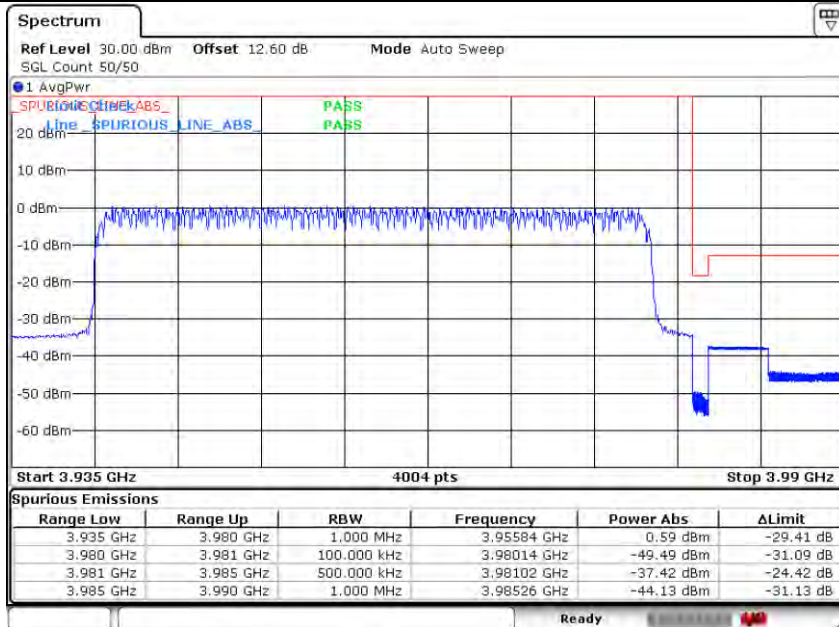


N77 30KHz TM1 40MHz 664000 Edge 1RB Right



Date: 7.MAR.2021 15:56:13

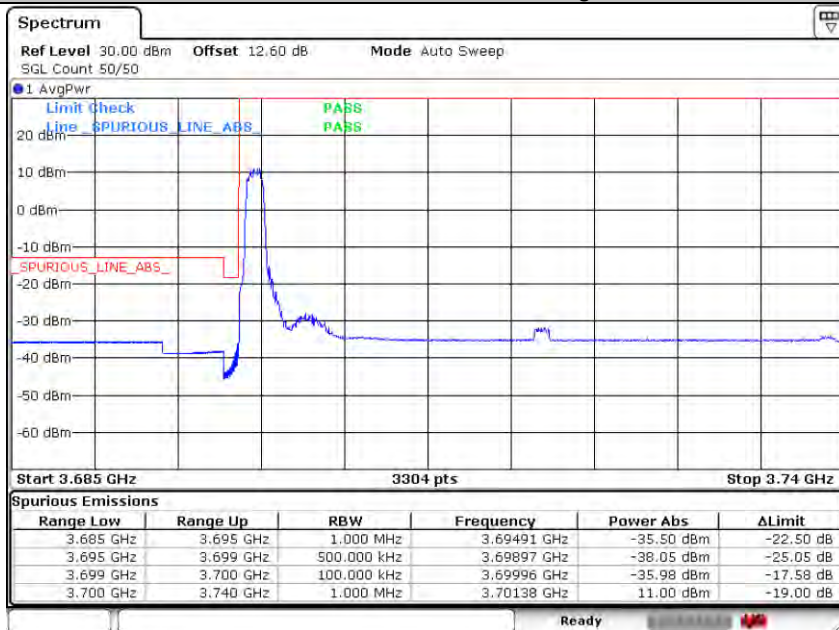
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Date: 7.MAR.2021 15:57:04

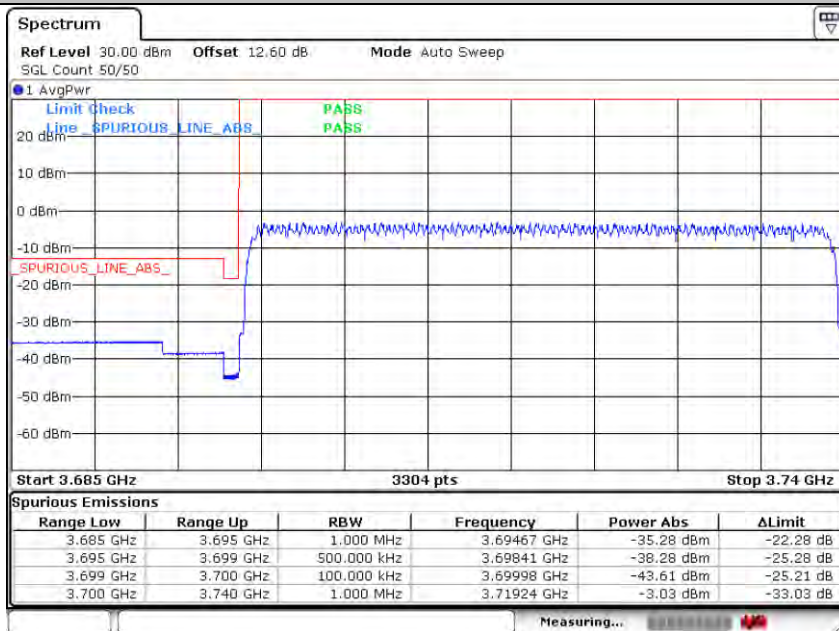


N77 30KHz TM6 40MHz 648000 Edge 1RB Left



Date: 7 MAR 2021 11:44:47

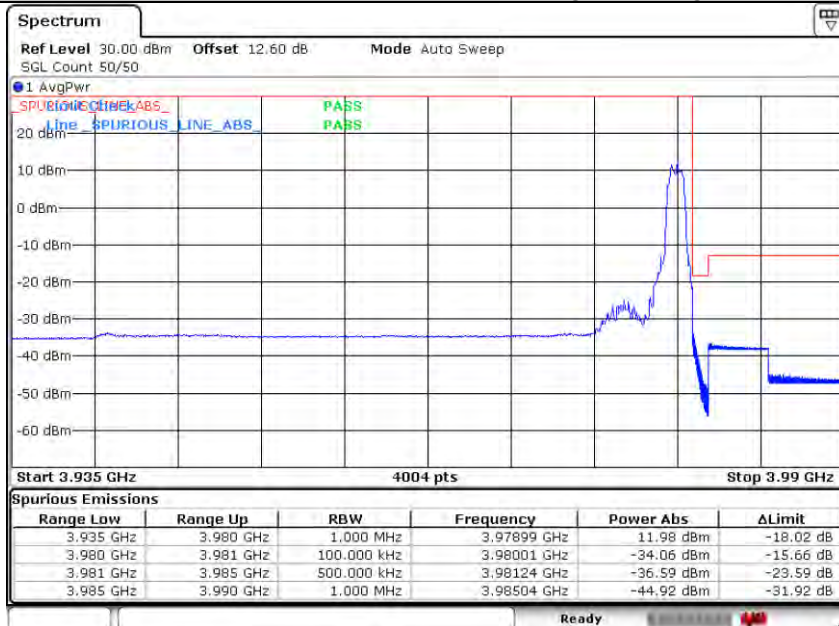
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Date: 7 MAR 2021 11:45:31

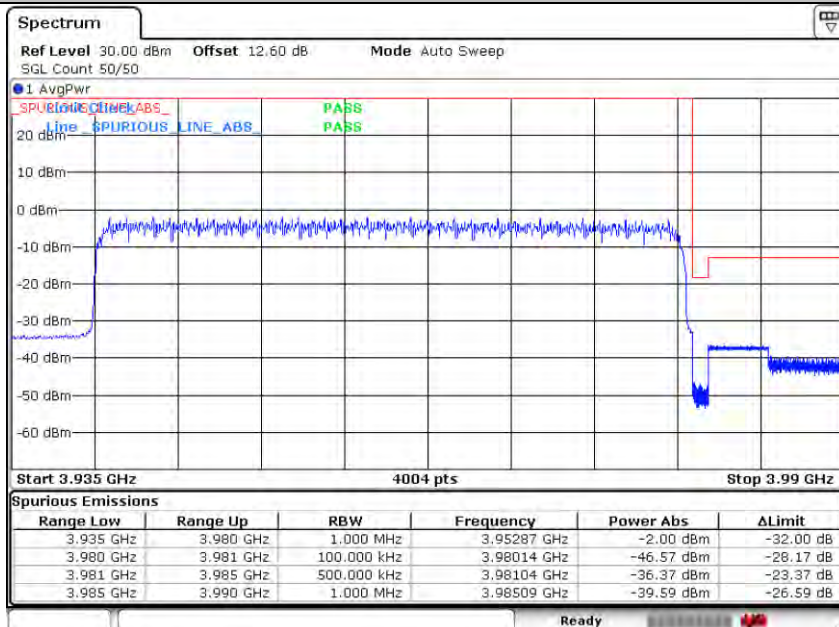


N77 30KHz TM6 40MHz 664000 Edge 1RB Right



Date: 7.MAR.2021 15:54:53

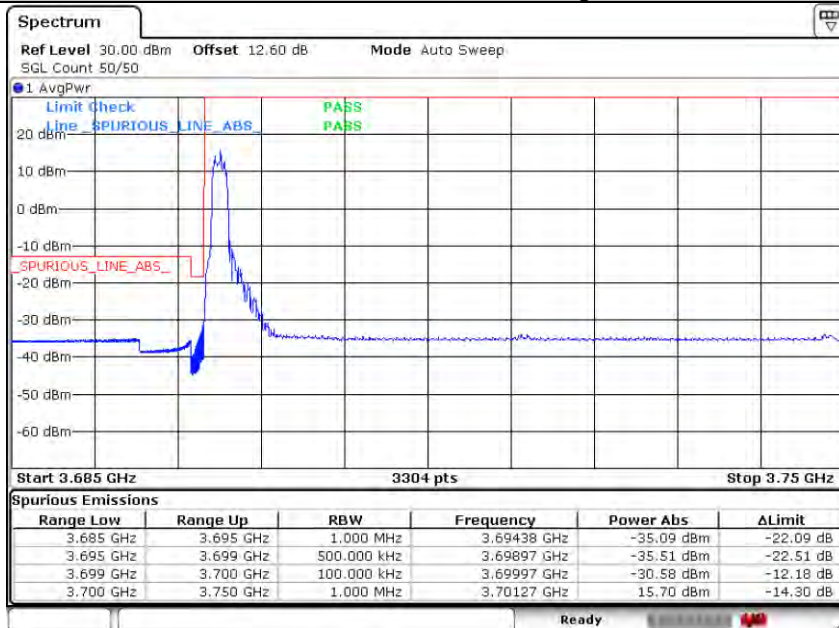
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Date: 7.MAR.2021 15:54:04

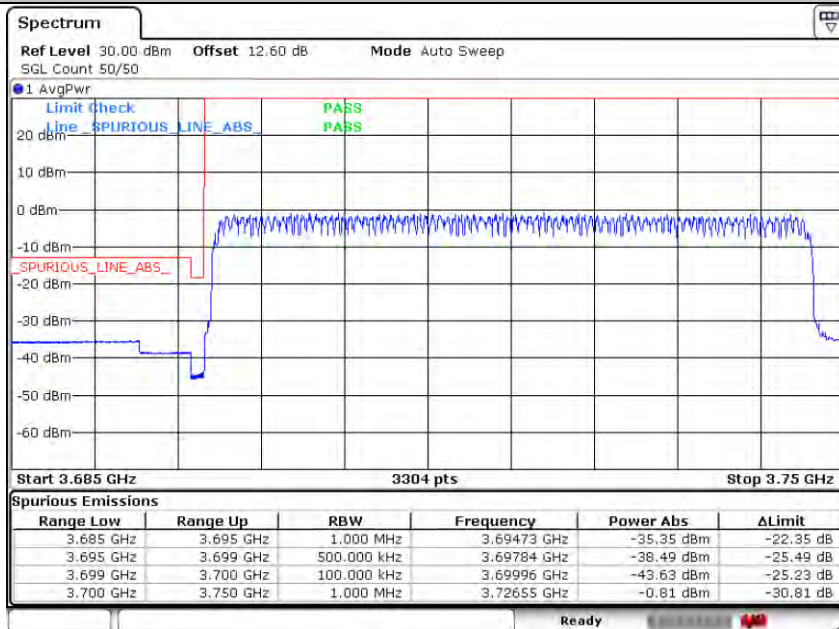


N77 30KHz TM1 50MHz 648334 Edge 1RB Left



Date: 7.MAR.2021 11:49:37

N77 30KHz TM1 50MHz 648334 Outer Full



Date: 7.MAR.2021 14:20:54



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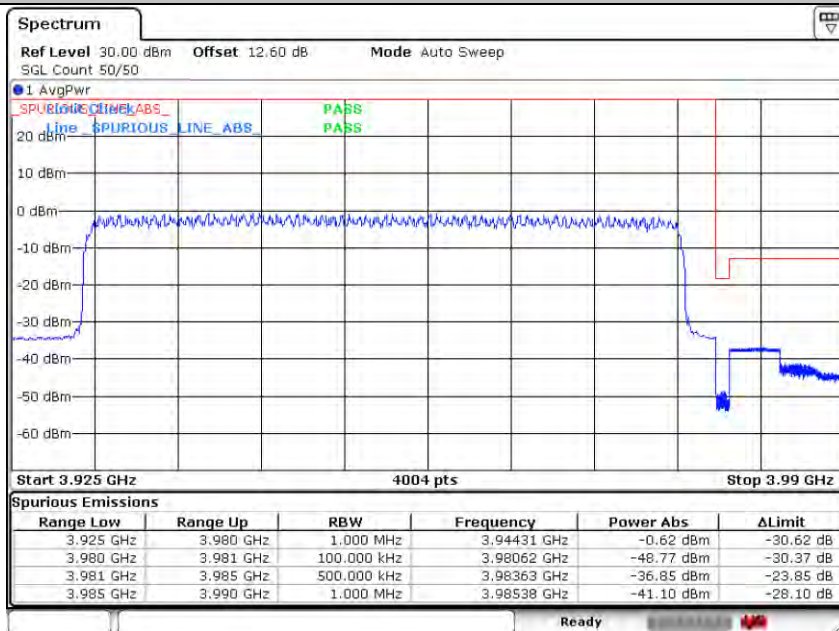
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N77 30KHz TM1 50MHz 663666 Edge 1RB Right



Date: 7.MAR.2021 15:45:00

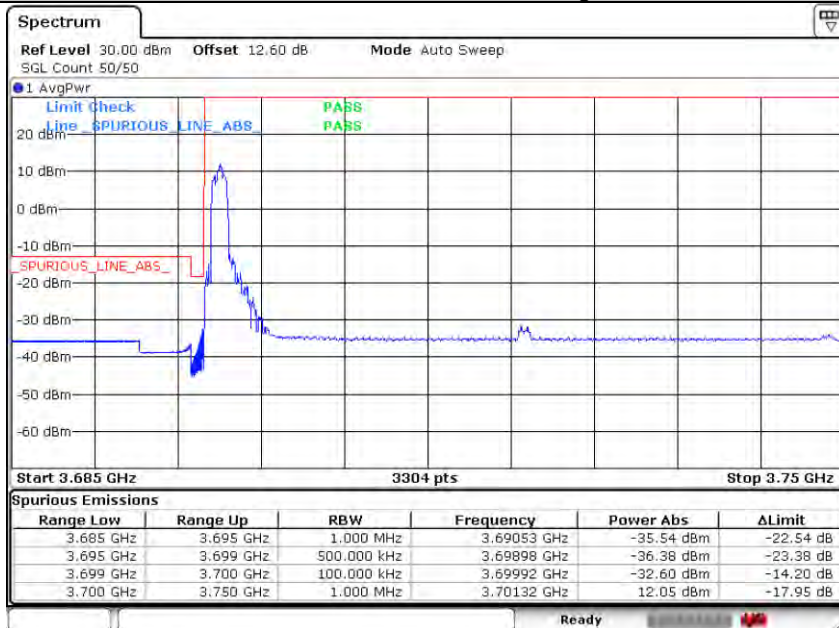
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Date: 7.MAR.2021 15:44:21

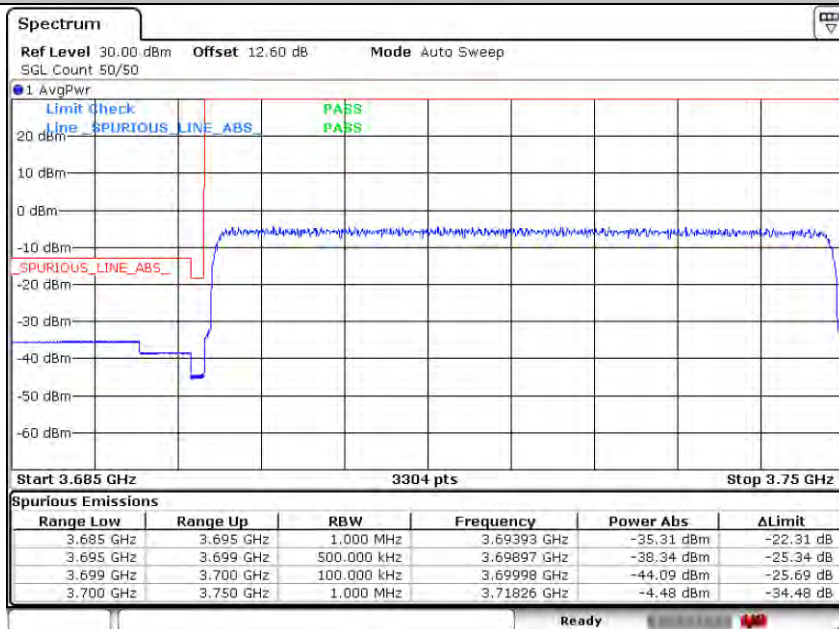


N77 30KHz TM6 50MHz 648334 Edge 1RB Left



Date: 7.MAR.2021 11:48:26

N77 30KHz TM6 50MHz 648334 Outer Full



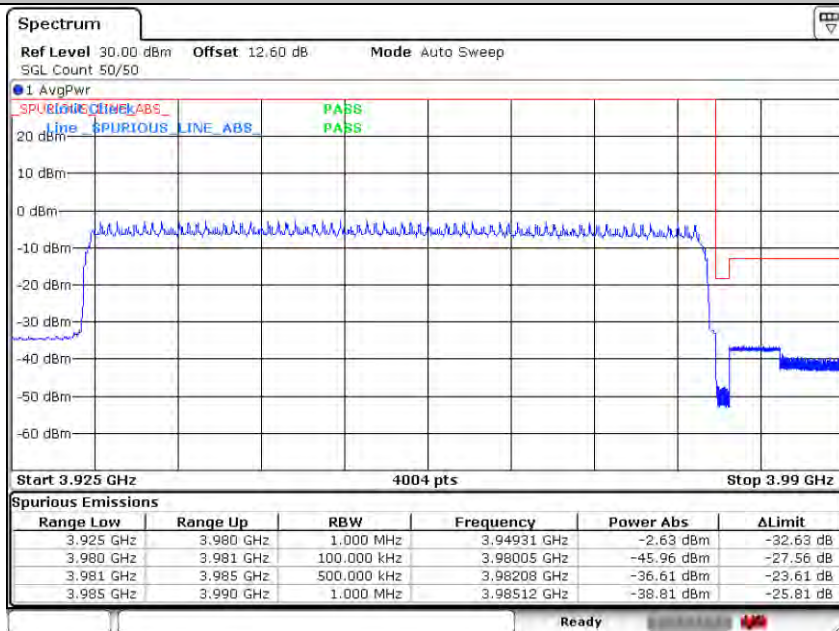
Date: 7.MAR.2021 11:47:43

N77 30KHz TM6 50MHz 663666 Edge 1RB Right



Date: 7.MAR.2021 15:48:04

N77 30KHz TM6 50MHz 663666 Outer Full



Date: 7.MAR.2021 15:47:02

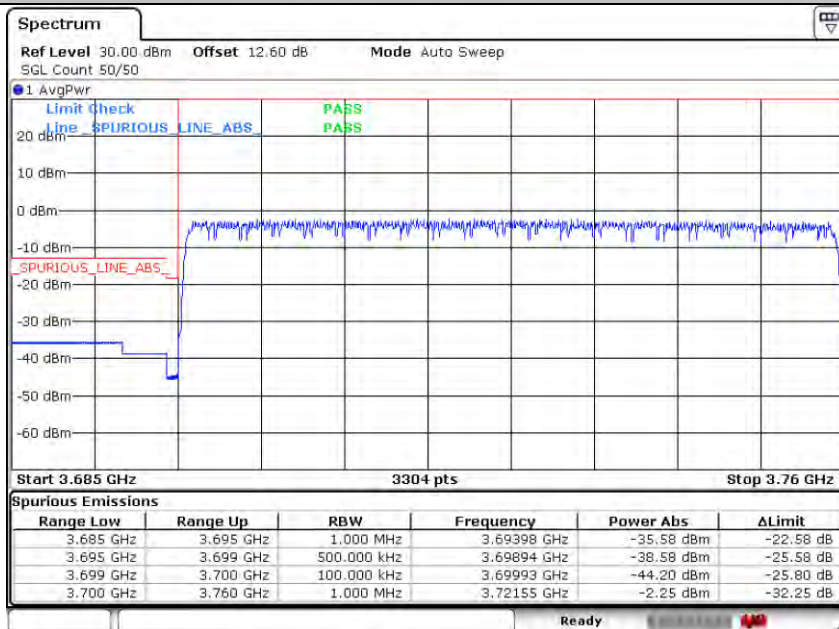


N77 30KHz TM1 60MHz 648668 Edge 1RB Left



Date: 7.MAR.2021 14:24:59

N77 30KHz TM1 60MHz 648668 Outer Full



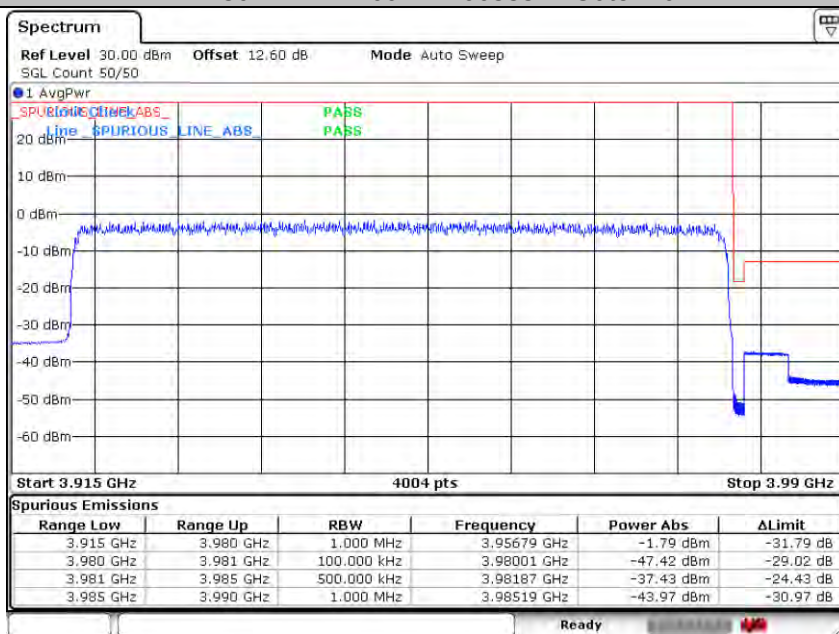
Date: 7.MAR.2021 14:24:10

N77 30KHz TM1 60MHz 663332 Edge 1RB Right



Date: 7.MAR.2021 15:35:46

N77 30KHz TM1 60MHz 663332 Outer Full



Date: 7.MAR.2021 15:36:41

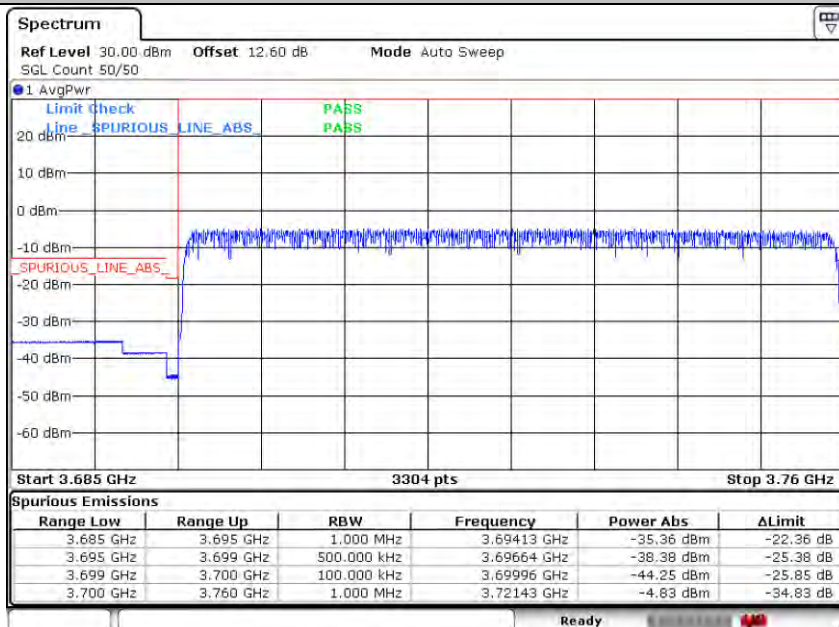


N77 30KHz TM6 60MHz 648668 Edge 1RB Left



Date: 7.MAR.2021 14:28:59

N77 30KHz TM6 60MHz 648668 Outer Full



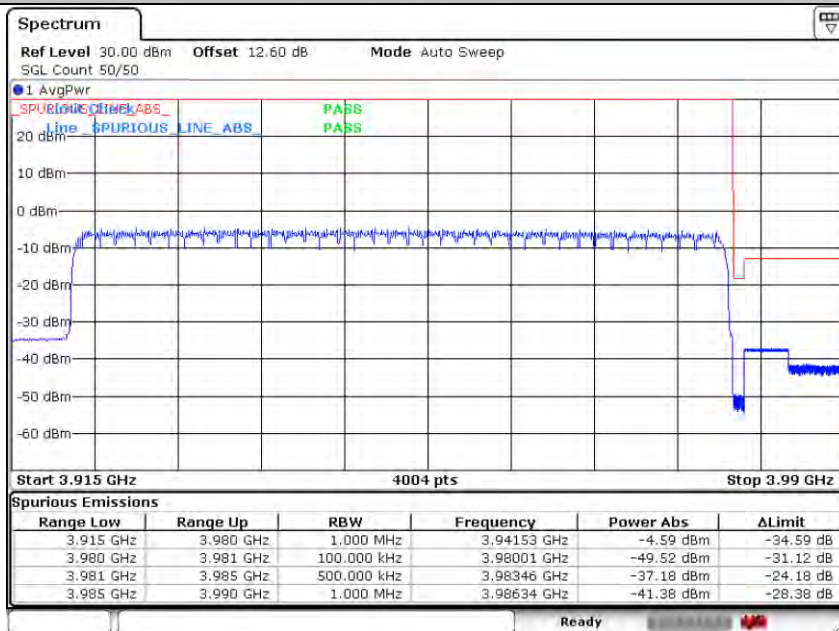
Date: 7.MAR.2021 14:29:56

N77 30KHz TM6 60MHz 663332 Edge 1RB Right



Date: 7.MAR.2021 15:32:00

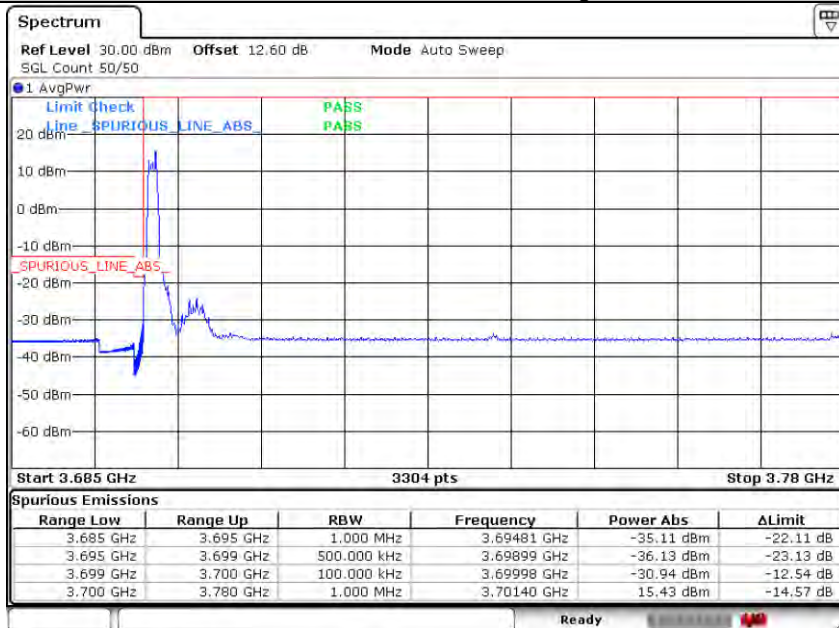
N77 30KHz TM6 60MHz 663332 Outer Full



Date: 7.MAR.2021 15:31:06

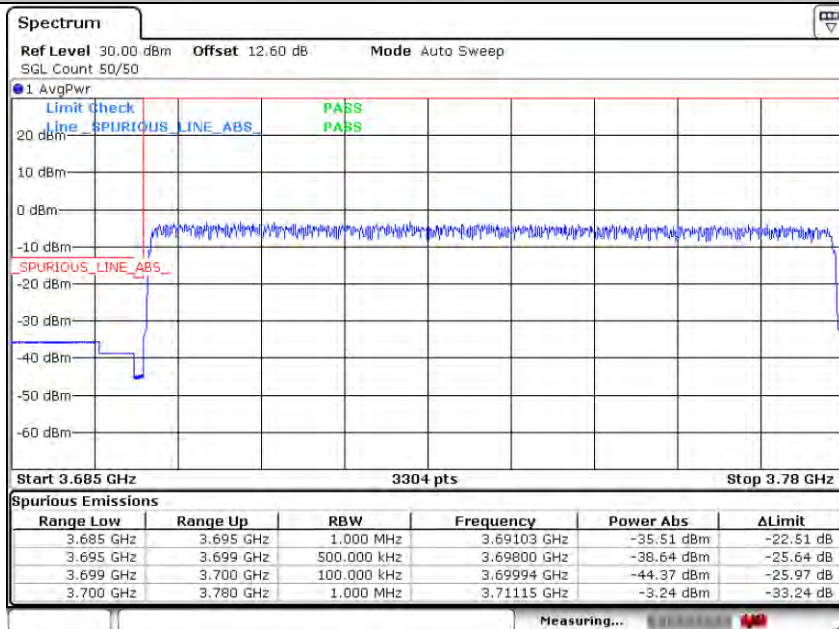


N77 30KHz TM1 80MHz 649334 Edge 1RB Left



Date: 7.MAR.2021 14:36:05

N77 30KHz TM1 80MHz 649334 Outer Full



Date: 7.MAR.2021 14:36:56

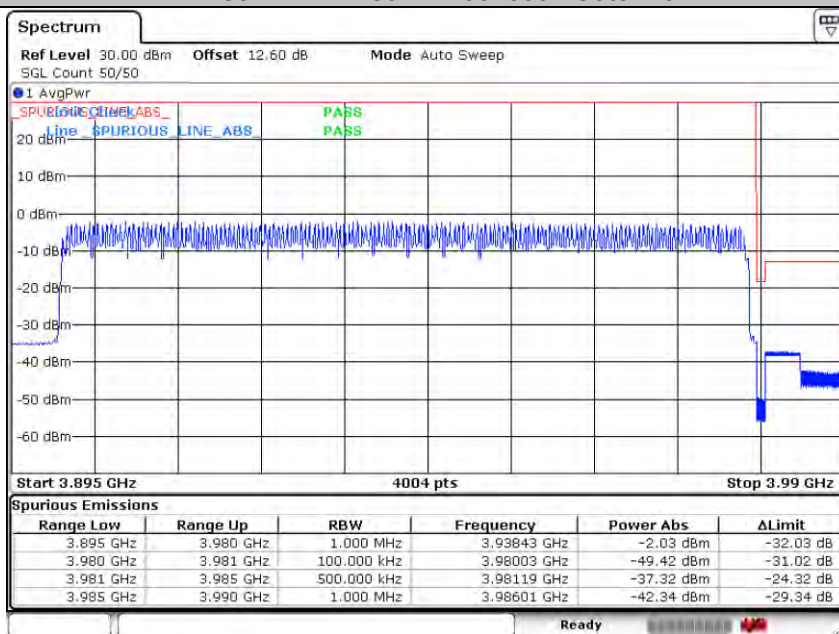


N77 30KHz TM1 80MHz 662666 Edge 1RB Right



Date: 7.MAR.2021 15:24:21

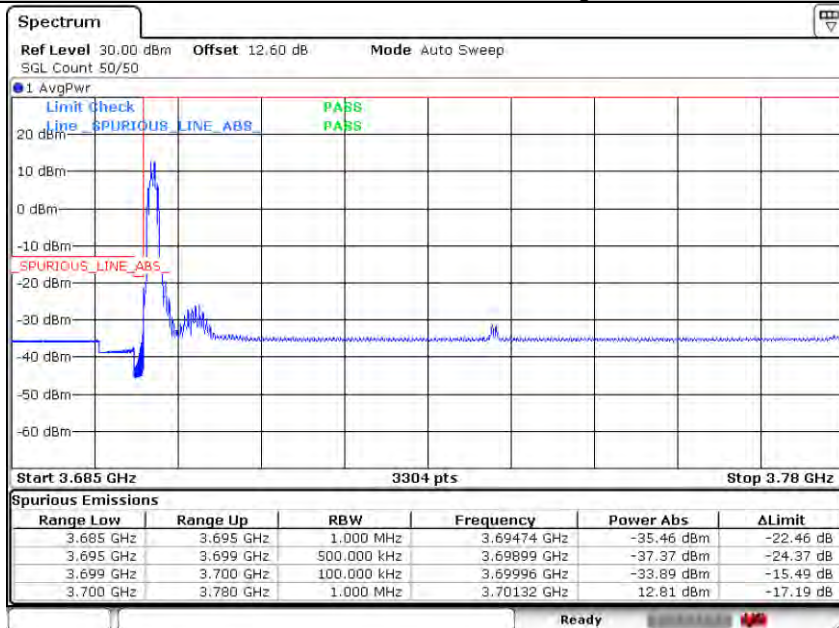
N77 30KHz TM1 80MHz 662666 Outer Full



Date: 7.MAR.2021 15:23:28

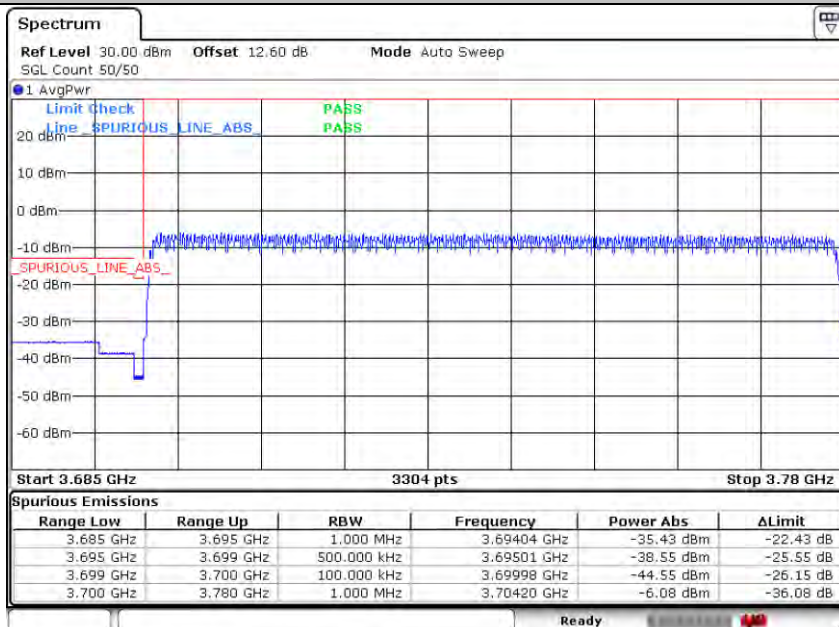


N77 30KHz TM6 80MHz 649334 Edge 1RB Left



Date: 7.MAR.2021 14:34:26

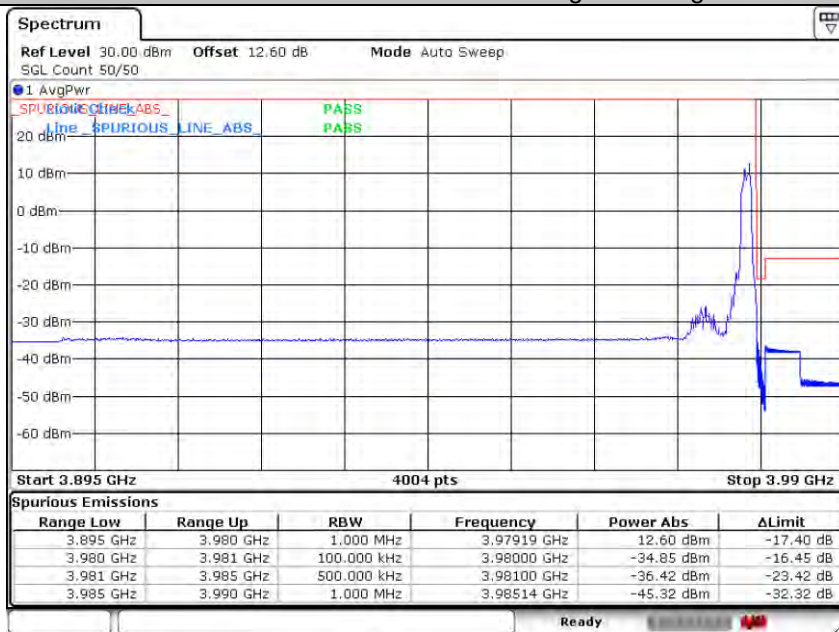
N77 30KHz TM6 80MHz 649334 Outer Full



Date: 7.MAR.2021 14:33:24

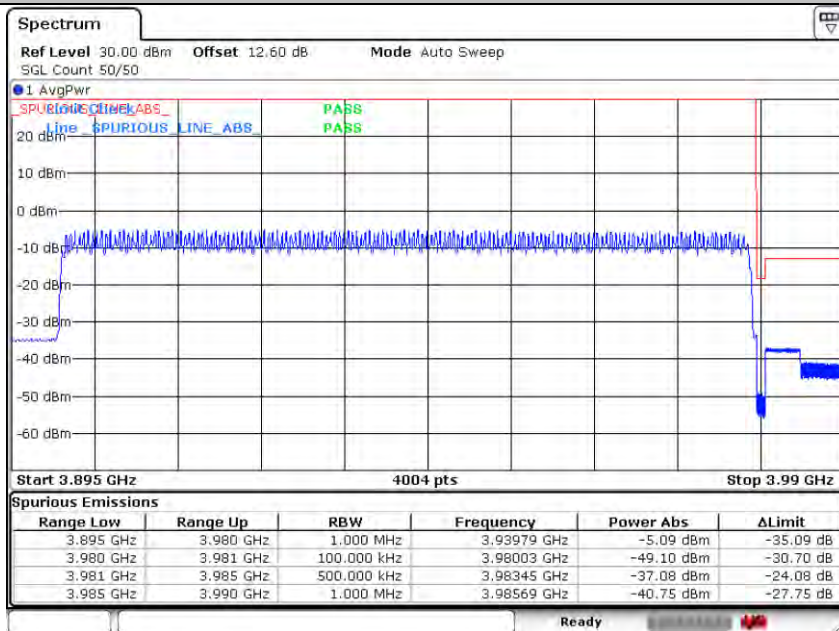


N77 30KHz TM6 80MHz 662666 Edge 1RB Right



Date: 7.MAR.2021 15:25:42

N77 30KHz TM6 80MHz 662666 Outer Full



Date: 7.MAR.2021 15:26:39

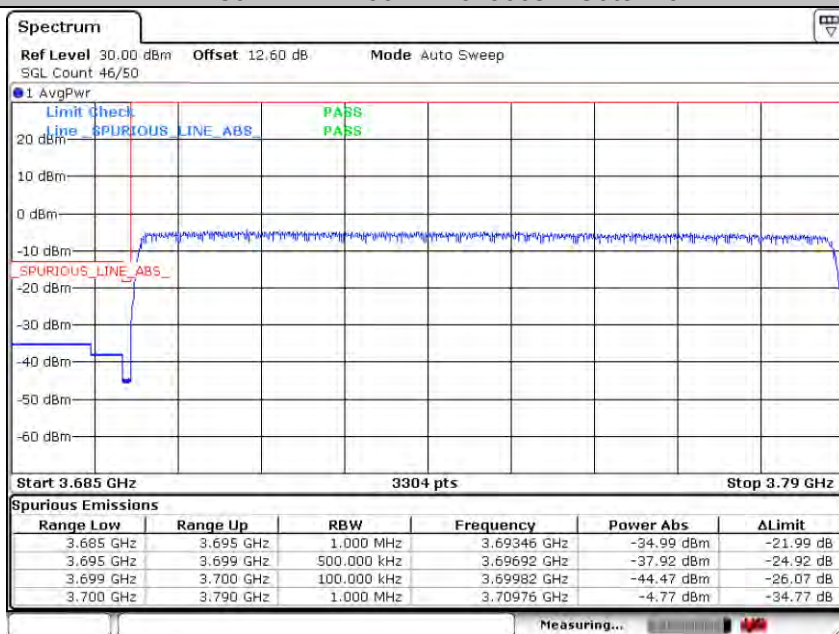


N77 30KHz TM1 90MHz 649668 Edge 1RB Left



Date: 7.MAR.2021 14:55:45

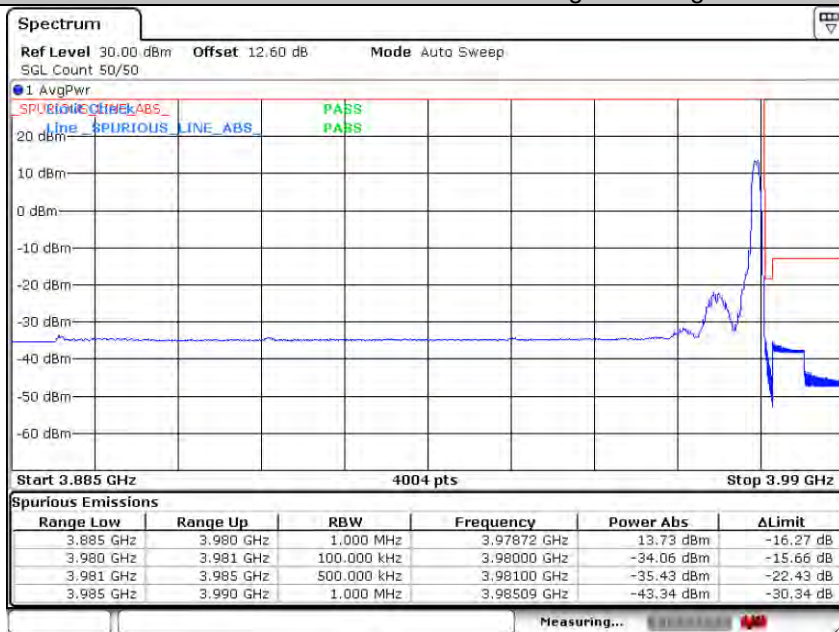
N77 30KHz TM1 90MHz 649668 Outer Full



Date: 7.MAR.2021 14:53:29

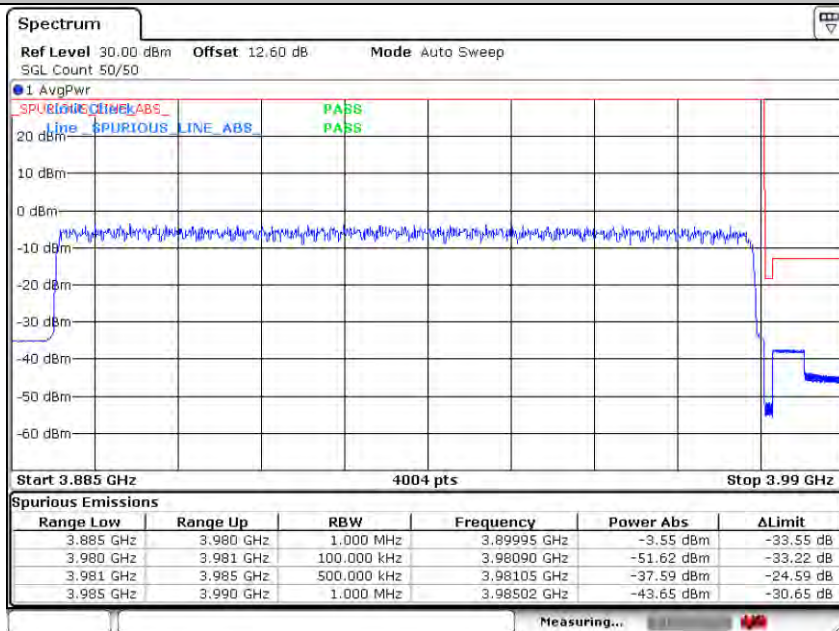


N77 30KHz TM1 90MHz 662332 Edge 1RB Right



Date: 7.MAR.2021 15:19:59

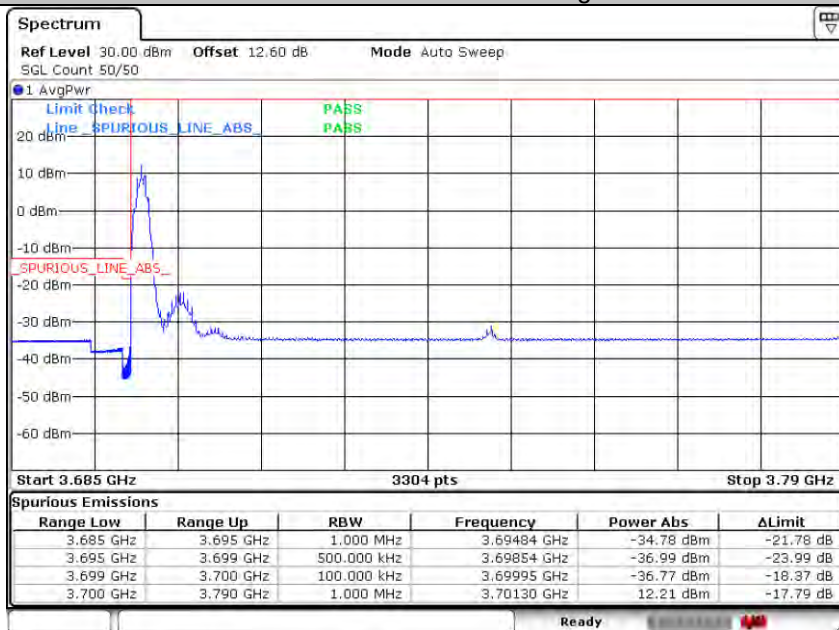
N77 30KHz TM1 90MHz 662332 Outer Full



Date: 7.MAR.2021 15:20:59

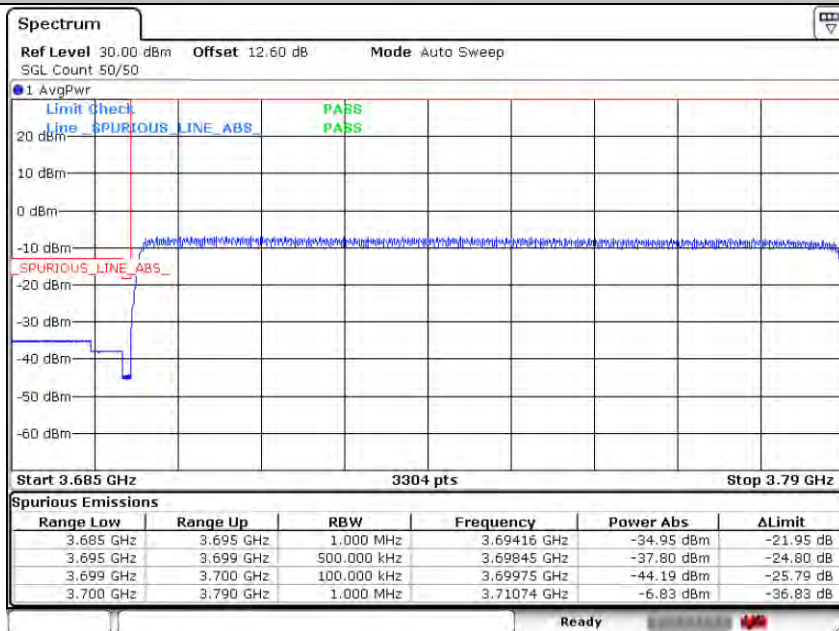


N77 30KHz TM6 90MHz 649668 Edge 1RB Left



Date: 7.MAR.2021 14:57:22

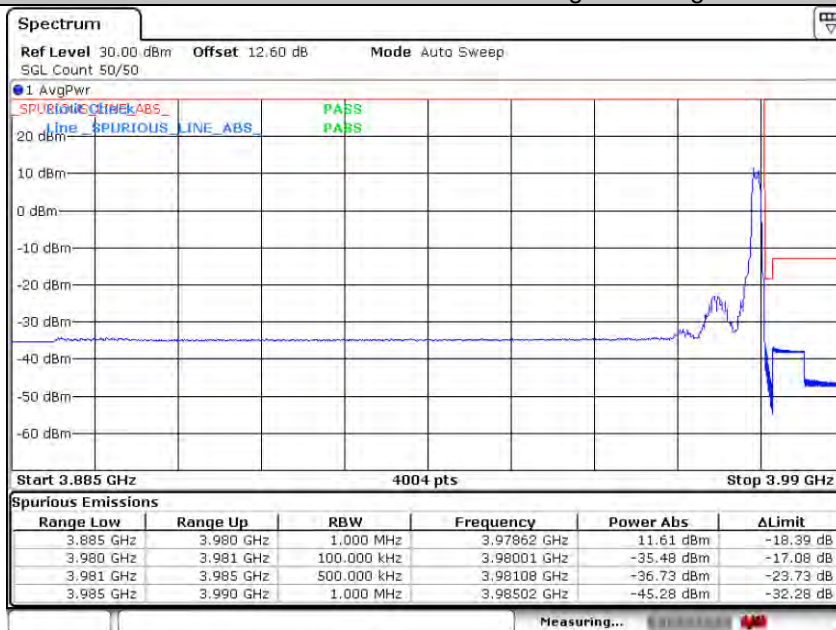
N77 30KHz TM6 90MHz 649668 Outer Full



Date: 7.MAR.2021 14:58:27

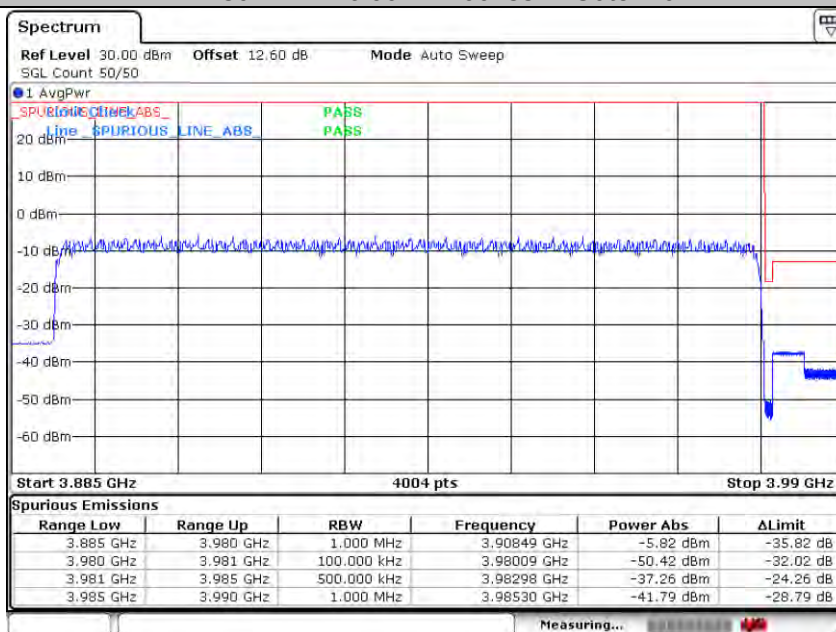


N77 30KHz TM6 90MHz 662332 Edge 1RB Right



Date: 7.MAR.2021 15:17:53

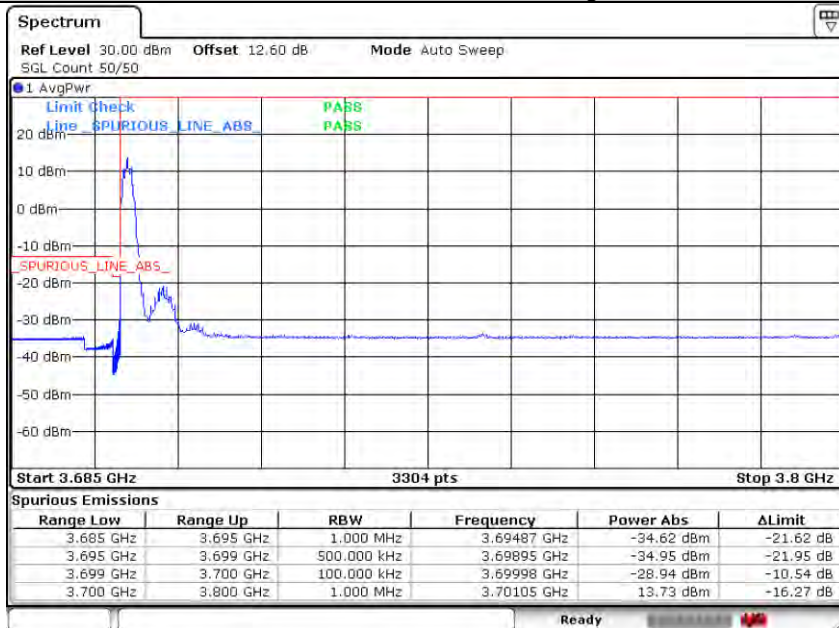
N77 30KHz TM6 90MHz 662332 Outer Full



Date: 7.MAR.2021 15:16:58

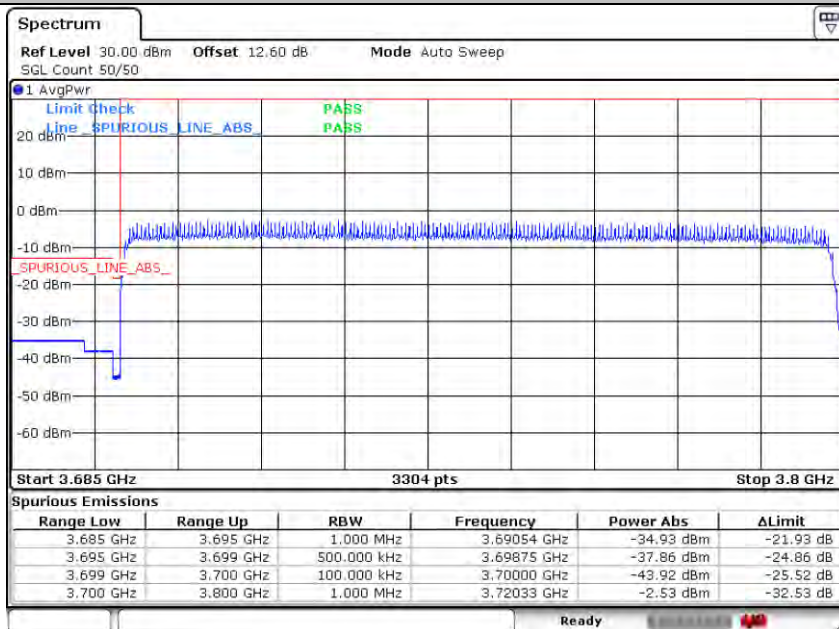


N77 30KHz TM1 100MHz 650000 Edge 1RB Left



Date: 7.MAR.2021 15:03:35

N77 30KHz TM1 100MHz 650000 Outer Full



Date: 7.MAR.2021 15:05:35



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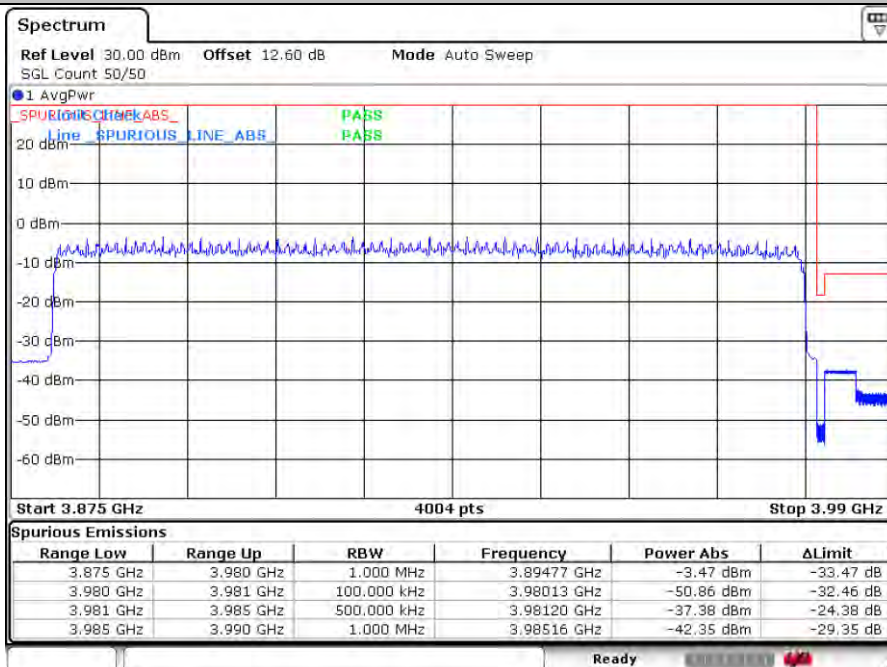
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N77 30KHz TM1 100MHz 662000 Edge 1RB Right



Date: 7.MAR.2021 15:10:29

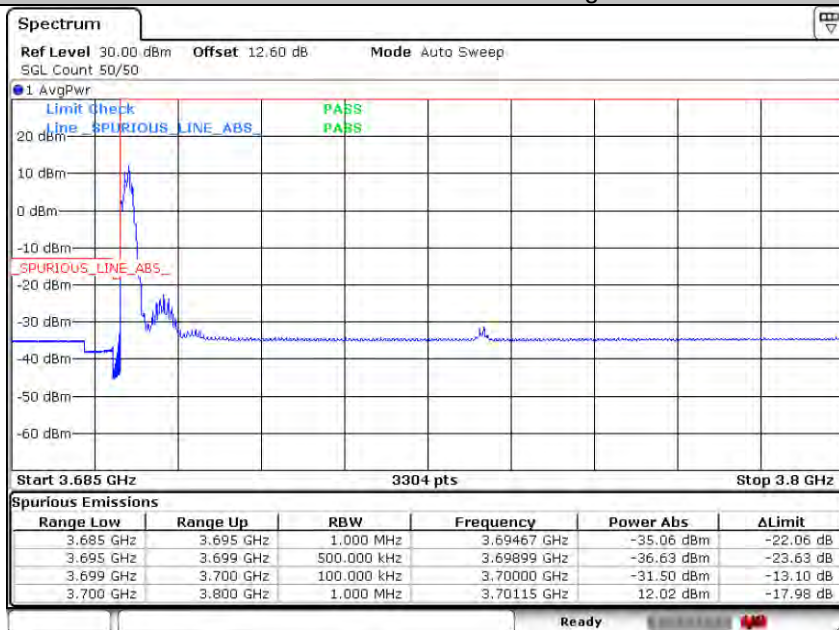
N77 30KHz TM1 100MHz 662000 Outer Full



Date: 7.MAR.2021 15:09:27

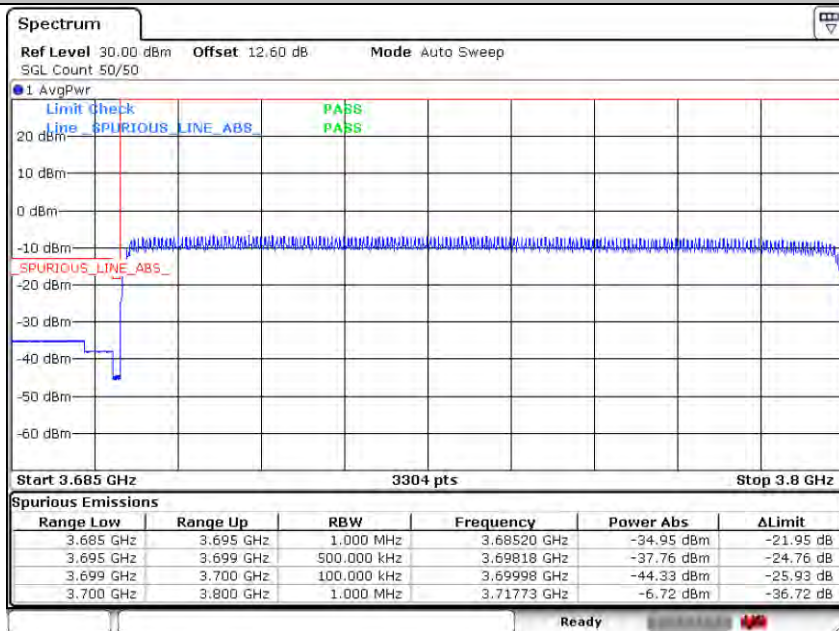


N77 30KHz TM6 100MHz 650000 Edge 1RB Left



Date: 7.MAR.2021 15:02:06

N77 30KHz TM6 100MHz 650000 Outer Full



Date: 7.MAR.2021 15:00:59

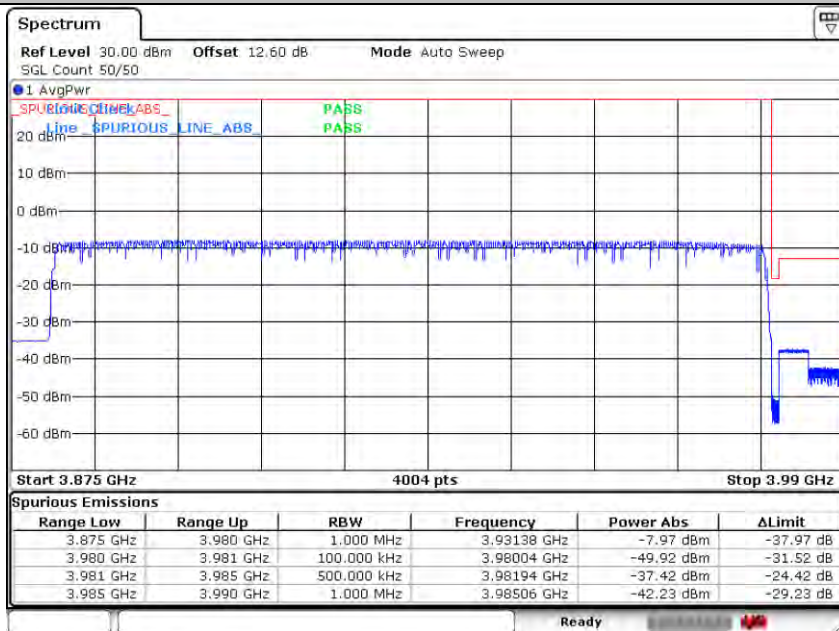


N77 30KHz TM6 100MHz 662000 Edge 1RB Right



Date: 7.MAR.2021 15:11:28

N77 30KHz TM6 100MHz 662000 Outer Full



Date: 7.MAR.2021 15:12:28

REMARK:

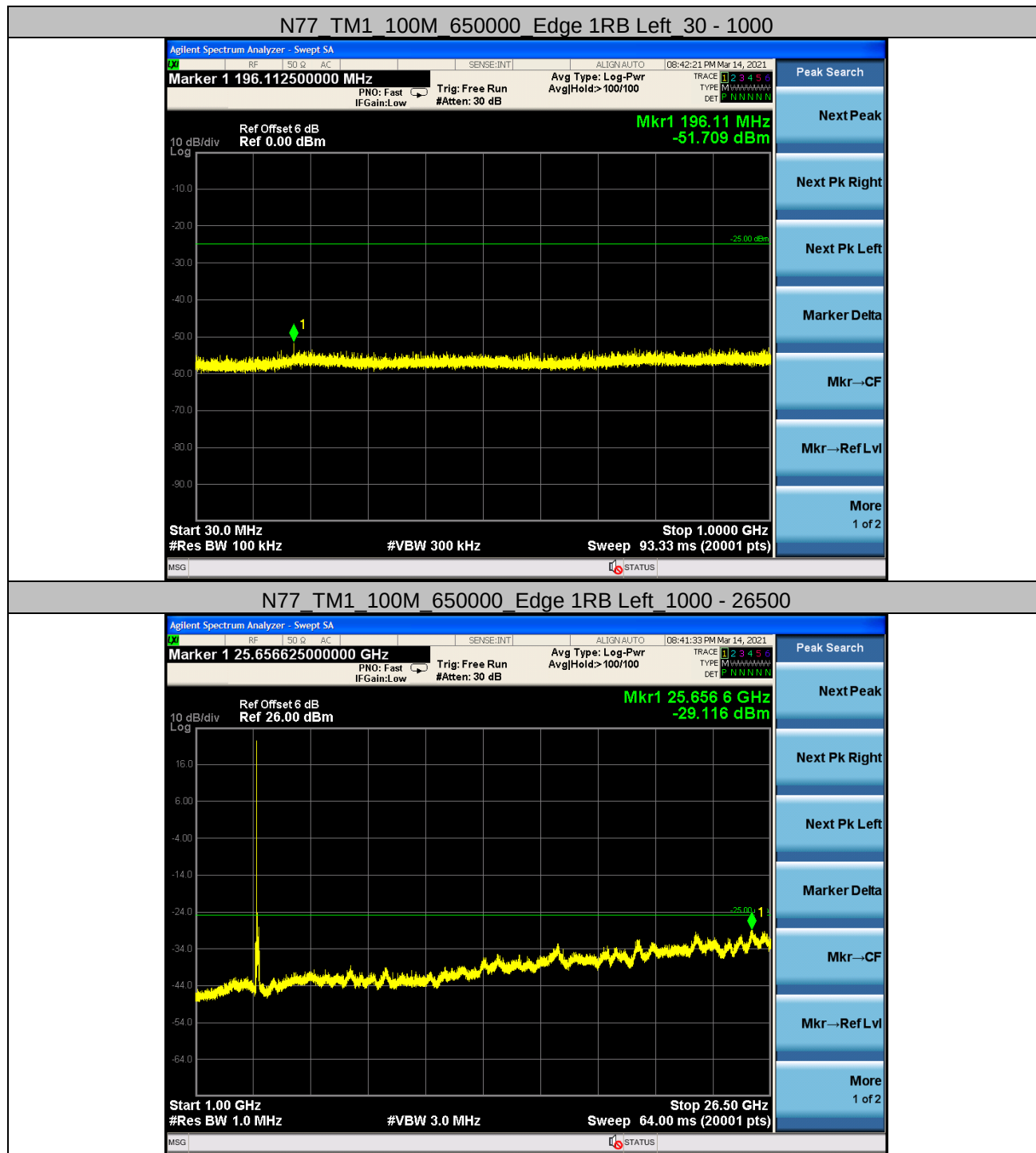
All antenna and all modulation had been tested, but only the worst case data displayed in this report



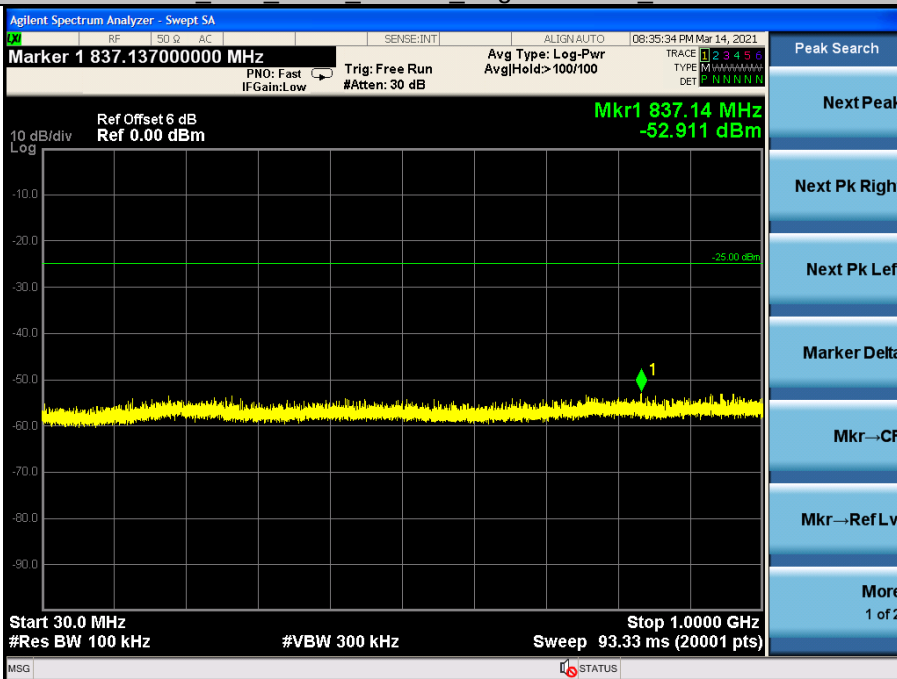
6 Spurious Emission at Antenna Terminal

REMARK: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< \text{RBW}/2$ so that narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

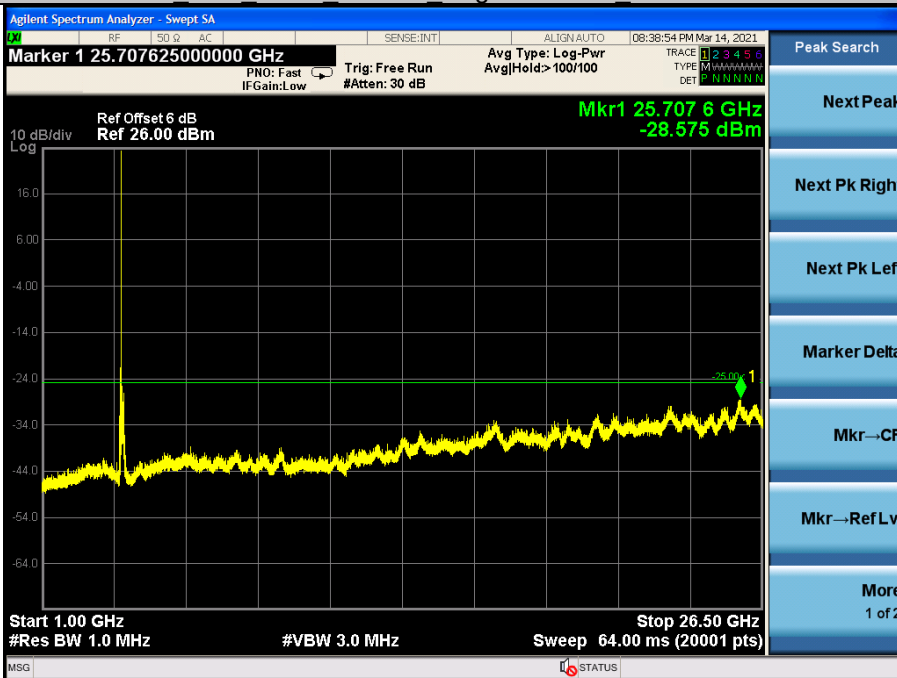
6.1 Test Plots



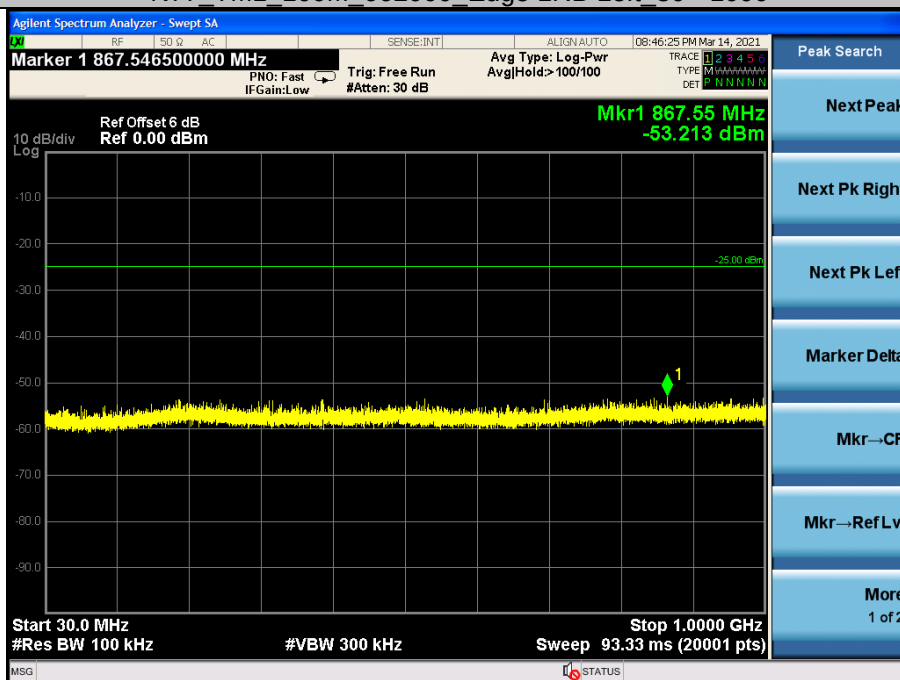
N77 TM1 100M 656000 Edge 1RB Left 30 - 1000



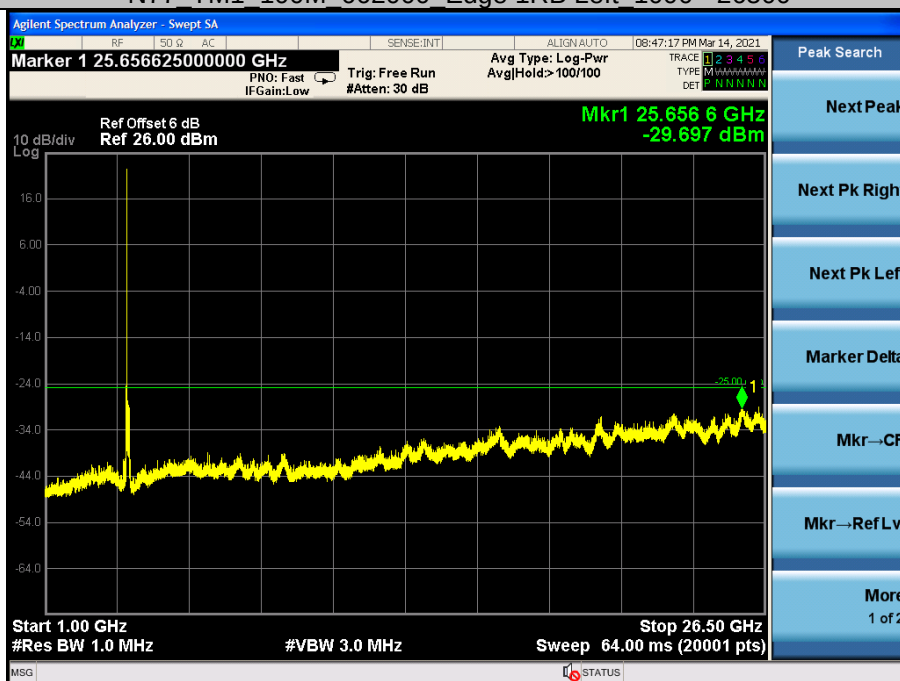
N77 TM1 100M 656000 Edge 1RB Left 1000 - 26500



N77 TM1 100M 662000 Edge 1RB Left 30 - 1000



N77 TM1 100M 662000 Edge 1RB Left 1000 - 26500



REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report.



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7 Frequency Stability

7.1 Frequency Error VS. Voltage

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77	30KHz	100MHz	TM1	650000	Outer Full	VL	NT	6.77	0.00181	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	NT	12.29	0.00328	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VH	NT	9.24	0.00246	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VL	NT	6.98	0.00182	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	NT	8.40	0.00219	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VH	NT	-9.41	-0.00245	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VL	NT	2.97	0.00076	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	NT	-7.78	-0.00198	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VH	NT	-0.63	-0.00016	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VL	NT	-6.88	-0.00183	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	NT	-8.45	-0.00225	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VH	NT	-10.70	-0.00285	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VL	NT	10.42	0.00271	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	NT	5.37	0.00140	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VH	NT	7.90	0.00206	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VL	NT	3.87	0.00098	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	NT	3.52	0.00090	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VH	NT	11.86	0.00302	±2.5	PASS

7.2 Frequency Error VS. Temperature

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	-30	1.12	0.00030	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	-20	-3.29	-0.00088	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	-10	9.38	0.00250	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	0	-4.44	-0.00118	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	10	4.29	0.00114	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	20	4.12	0.00110	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	30	12.62	0.00337	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	40	4.75	0.00127	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	50	12.74	0.00340	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	-30	9.28	0.00242	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	-20	6.05	0.00158	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	-10	-0.60	-0.00016	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	0	-9.79	-0.00255	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	10	-4.43	-0.00115	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	20	-10.84	-0.00282	±2.5	PASS



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N77	30KHz	100MHz	TM1	656000	Outer Full	VN	30	-0.71	-0.00018	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	40	11.51	0.00300	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	50	-4.10	-0.00107	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	-30	10.41	0.00265	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	-20	-6.76	-0.00172	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	-10	5.44	0.00138	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	0	3.64	0.00093	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	10	11.75	0.00299	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	20	14.11	0.00359	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	30	-4.09	-0.00104	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	40	6.28	0.00160	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	50	-4.93	-0.00125	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	-30	12.55	0.00335	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	-20	4.05	0.00108	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	-10	-8.56	-0.00228	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	0	-8.21	-0.00219	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	10	8.28	0.00221	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	20	-7.03	-0.00187	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	30	14.13	0.00377	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	40	14.60	0.00389	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	50	11.61	0.00310	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	-30	6.84	0.00178	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	-20	-2.60	-0.00068	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	-10	13.94	0.00363	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	0	-3.26	-0.00085	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	10	11.72	0.00305	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	20	-12.19	-0.00317	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	30	-6.67	-0.00174	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	40	1.23	0.00032	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	50	0.87	0.00023	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	-30	4.77	0.00121	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	-20	14.02	0.00357	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	-10	-2.69	-0.00068	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	0	8.81	0.00224	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	10	14.81	0.00377	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	20	1.50	0.00038	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	30	7.20	0.00183	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	40	-4.60	-0.00117	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	50	-1.64	-0.00042	±2.5	PASS

REMARK:

All antenna and all modulation had been tested, but only the worst case data displayed in this report.

The End



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