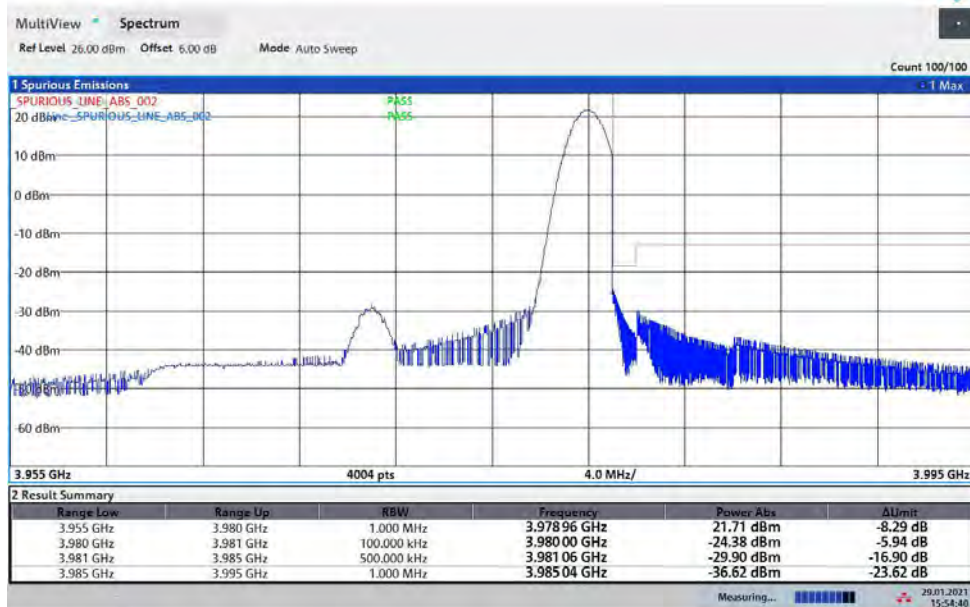


N77 30KHz TM1 20MHz 664666 Edge 1RB Right



15:54:41 29.01.2021

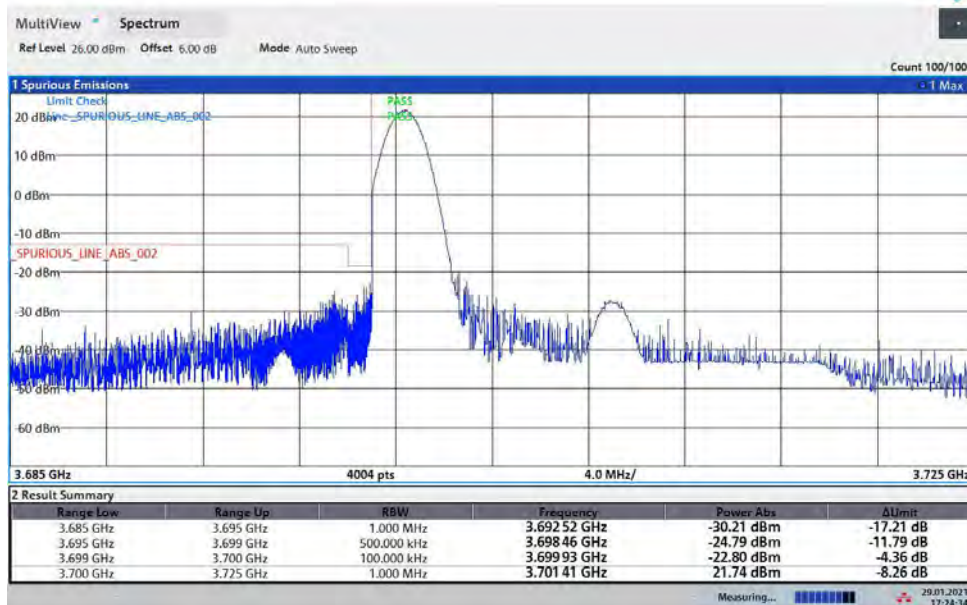
N77 30KHz TM1 20MHz 664666 Outer Full



15:56:04 29.01.2021



N77 30KHz TM6 20MHz 647334 Edge 1RB Left



17:24:35 29.01.2021

N77 30KHz TM6 20MHz 647334 Outer Full



17:26:21 29.01.2021



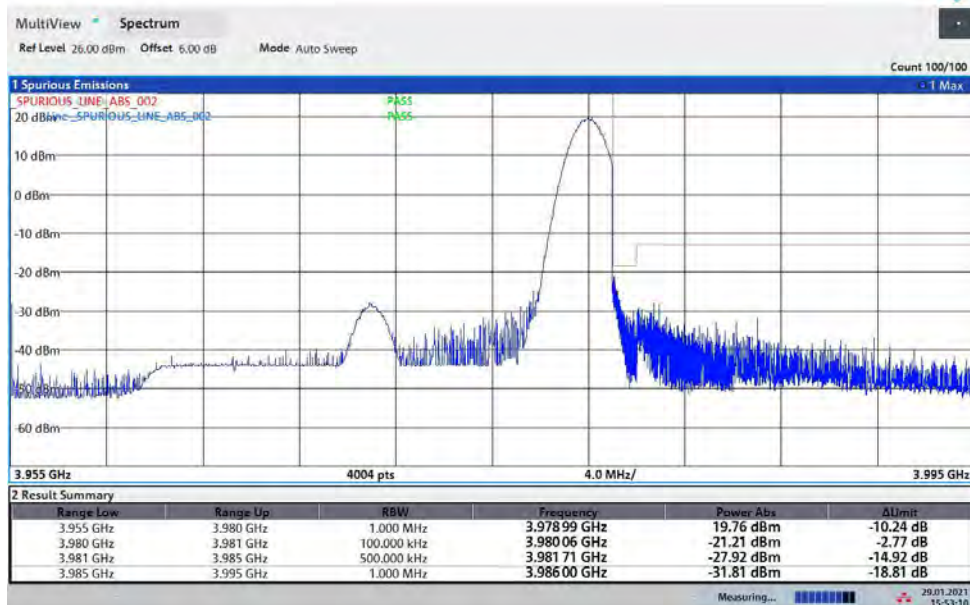
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N77 30KHz TM6 20MHz 664666 Edge 1RB Right



15:53:11 29.01.2021

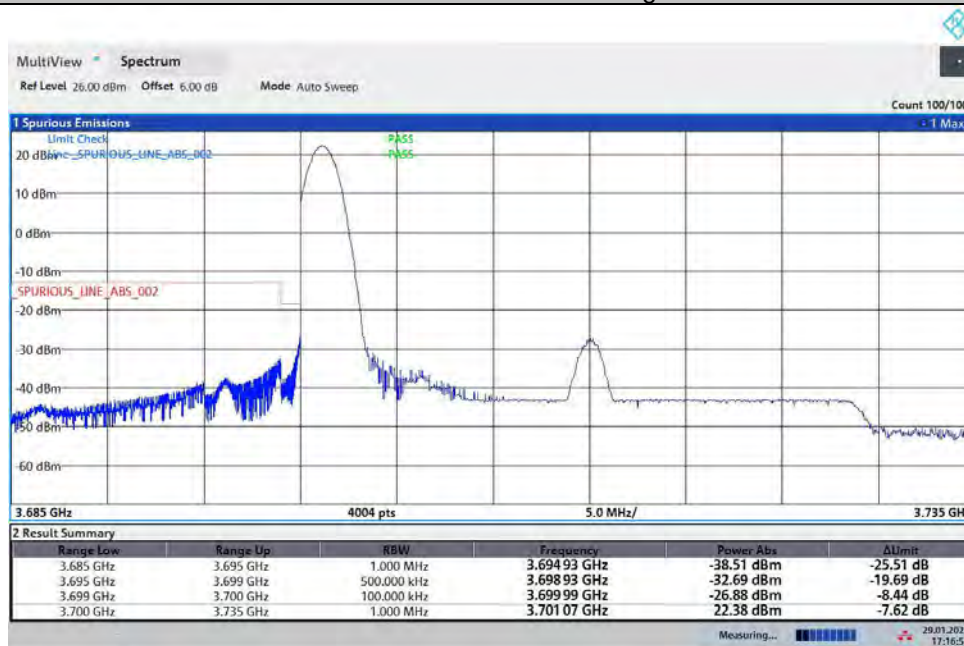
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15:51:43 29.01.2021

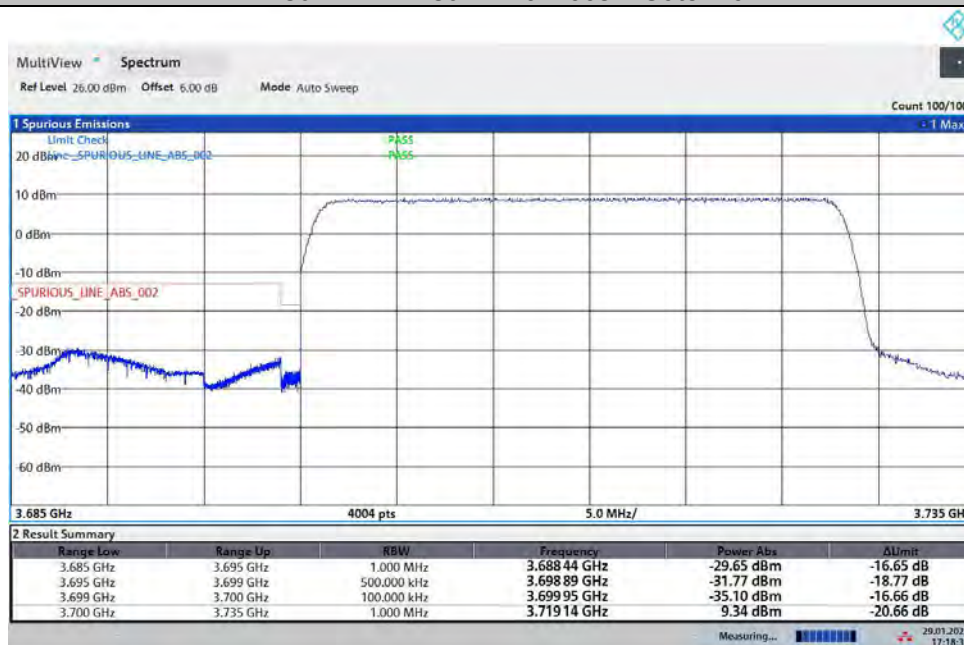


N77 30KHz TM1 30MHz 647668 Edge 1RB Left



17:16:55 29.01.2021

N77 30KHz TM1 30MHz 647668 Outer Full



17:18:39 29.01.2021



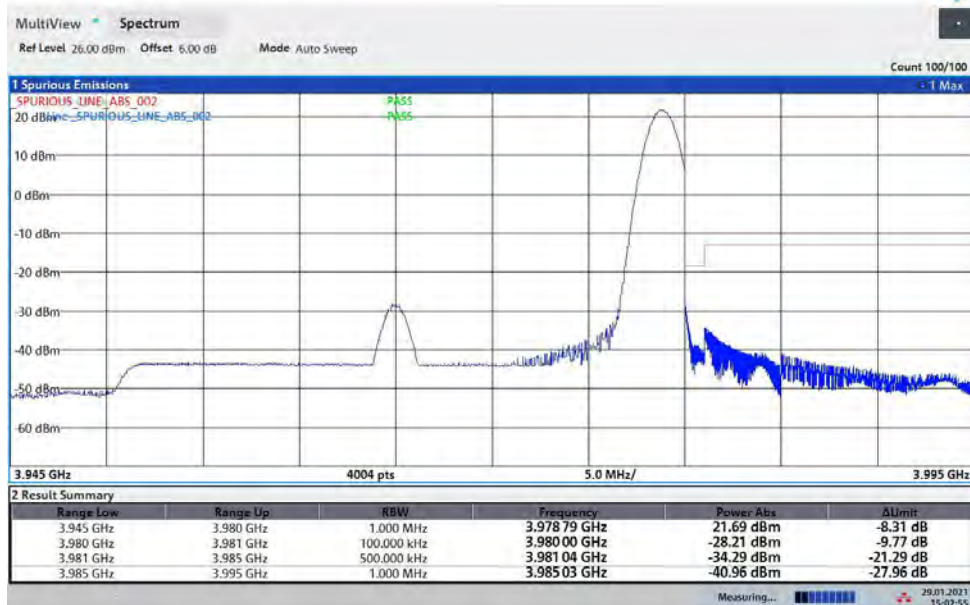
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N77 30KHz TM1 30MHz 664332 Edge 1RB Right



15:02:56 29.01.2021

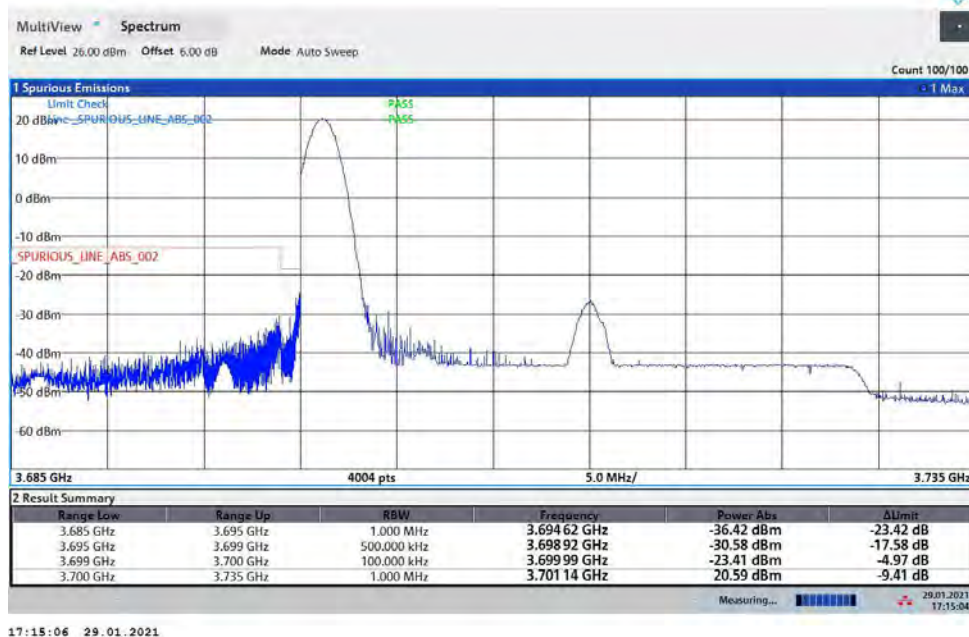
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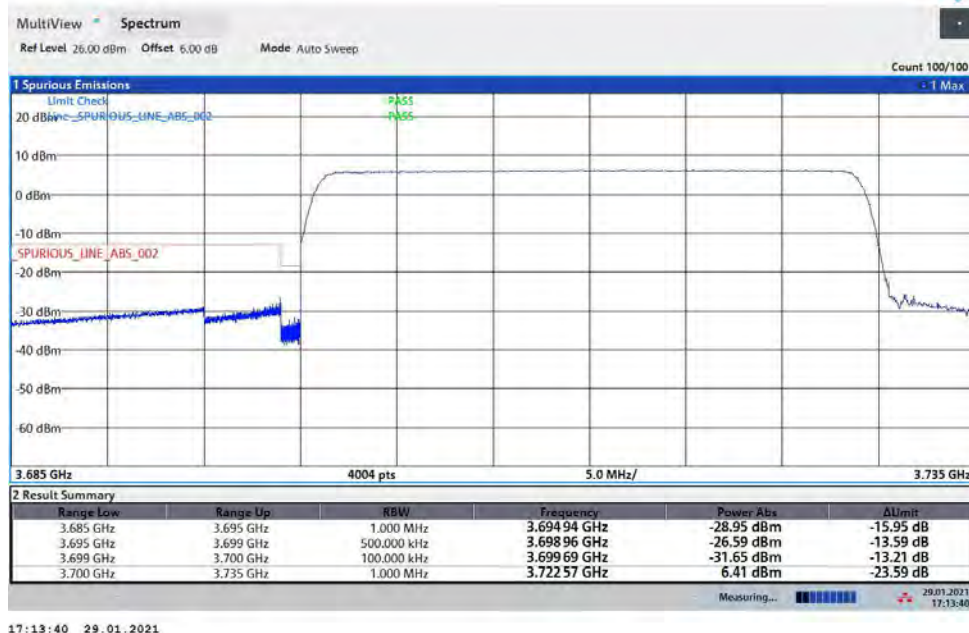
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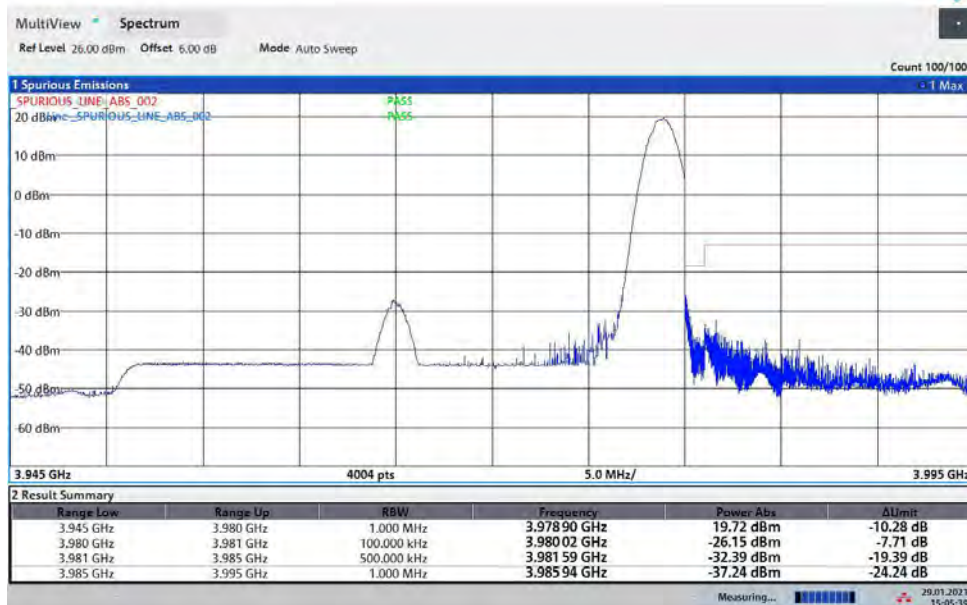
N77 30KHz TM6 30MHz 647668 Edge 1RB Left



N77 30KHz TM6 30MHz 647668 Outer Full



N77 30KHz TM6 30MHz 664332 Edge 1RB Right



15:05:40 29.01.2021

N77 30KHz TM6 30MHz 664332 Outer Full



15:07:24 29.01.2021



N77 30KHz TM1 40MHz 648000 Edge 1RB Left



N77 30KHz TM1 40MHz 648000 Outer Full

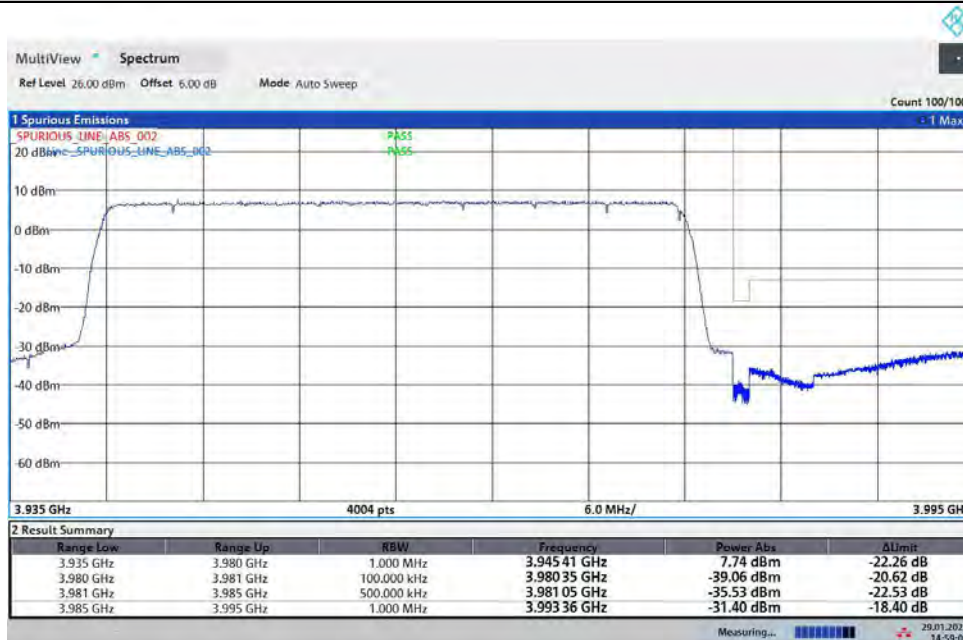


N77 30KHz TM1 40MHz 664000 Edge 1RB Right



14:57:29 29.01.2021

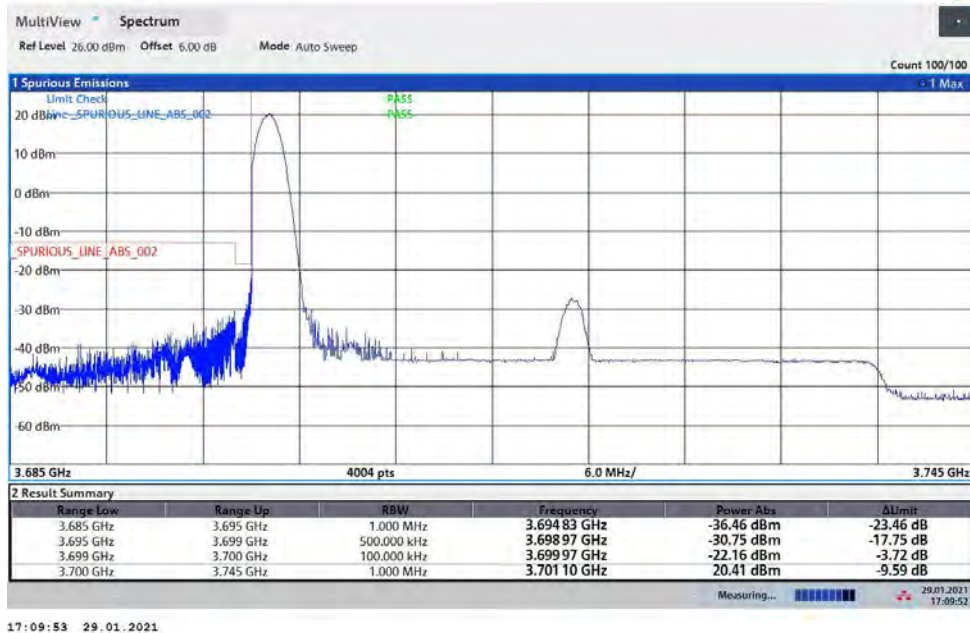
N77 30KHz TM1 40MHz 664000 Outer Full



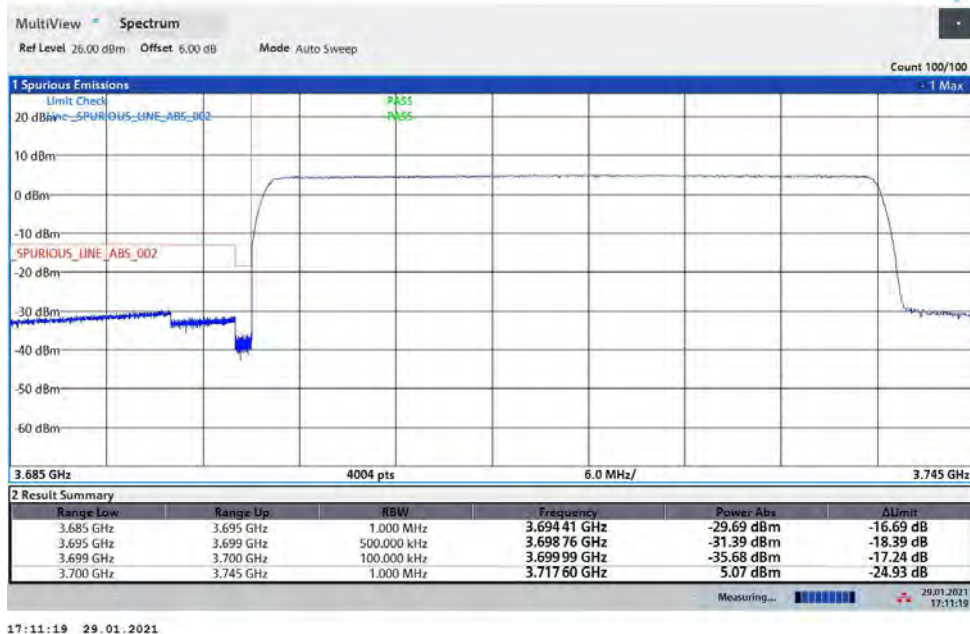
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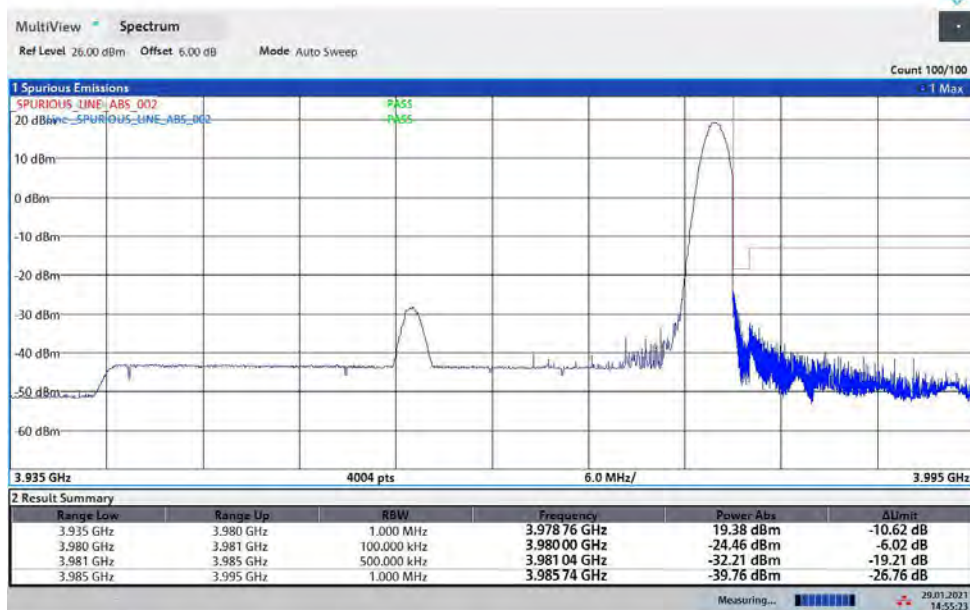
N77 30KHz TM6 40MHz 648000 Edge 1RB Left



N77 30KHz TM6 40MHz 648000 Outer Full

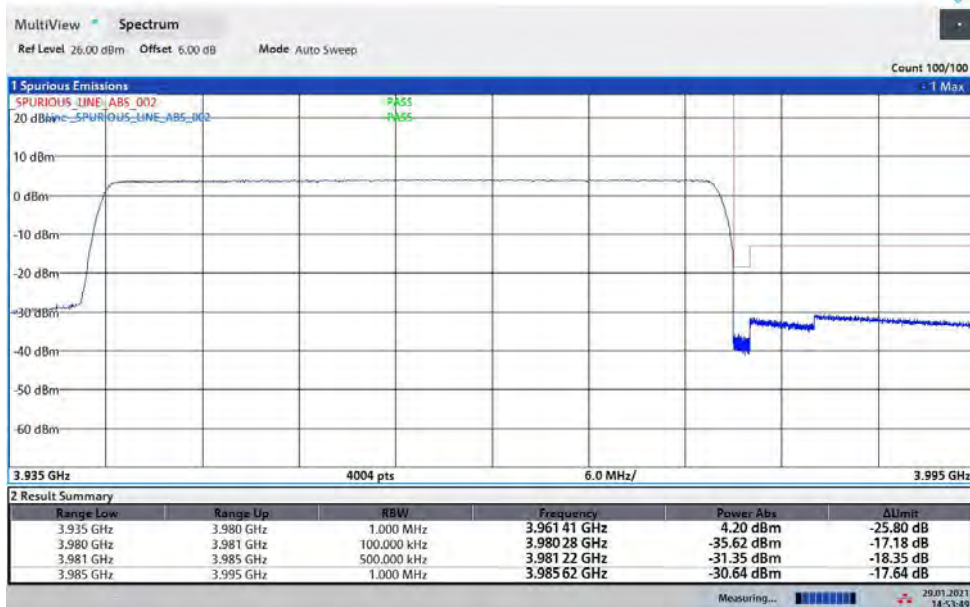


N77 30KHz TM6 40MHz 664000 Edge 1RB Right



14:55:23 29.01.2021

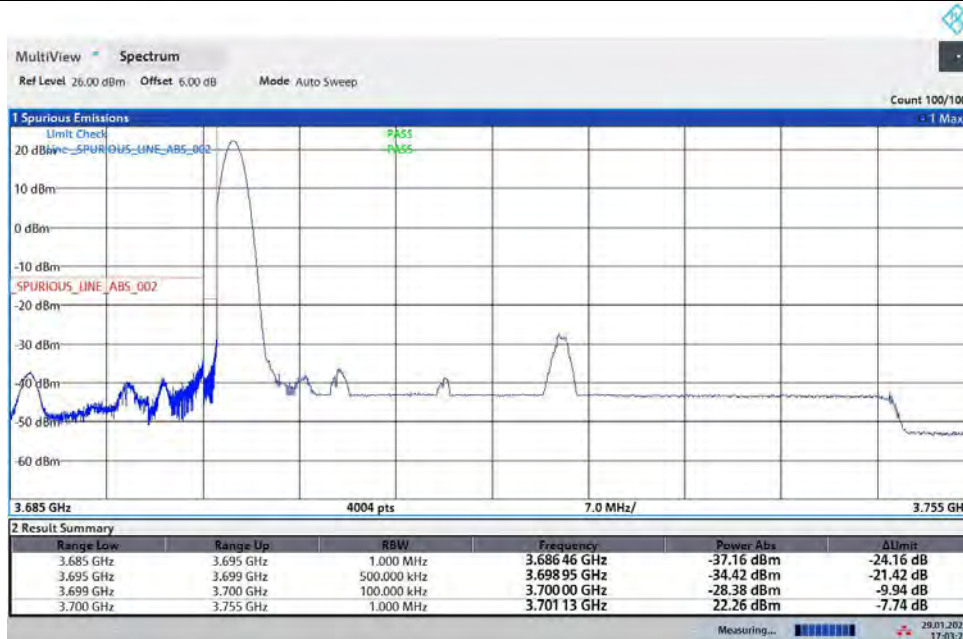
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14:53:49 29.01.2021

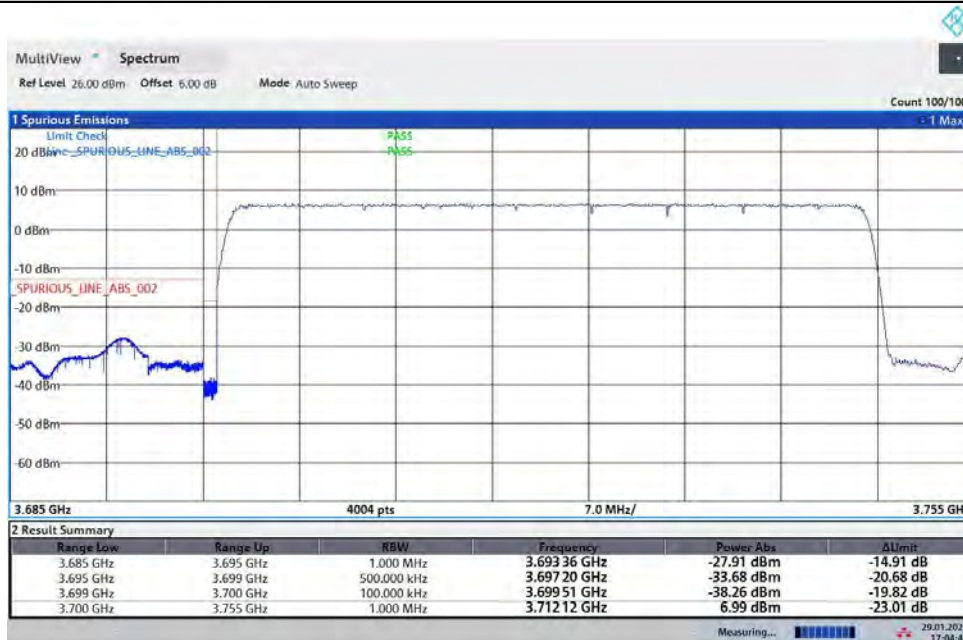


N77 30KHz TM1 50MHz 648334 Edge 1RB Left



17:03:22 29.01.2021

N77 30KHz TM1 50MHz 648334 Outer Full



17:04:42 29.01.2021



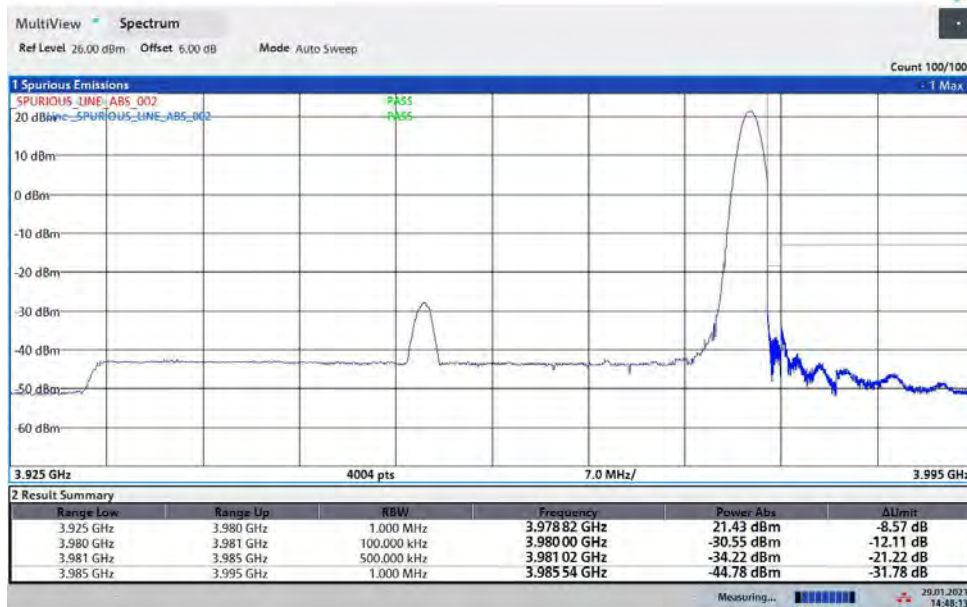
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N77 30KHz TM1 50MHz 663666 Edge 1RB Right



14:48:13 29.01.2021

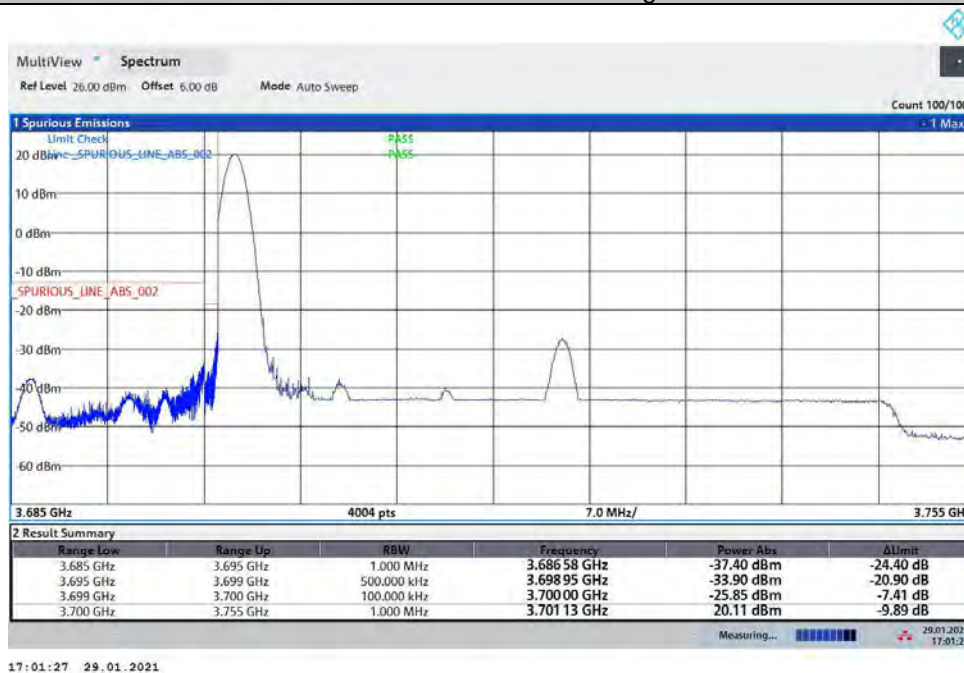
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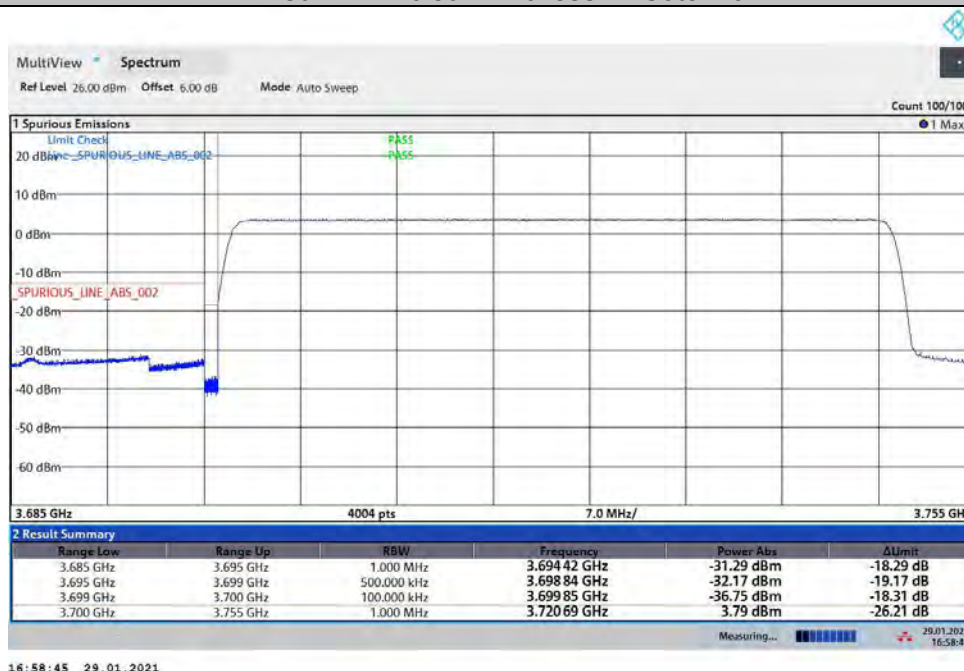
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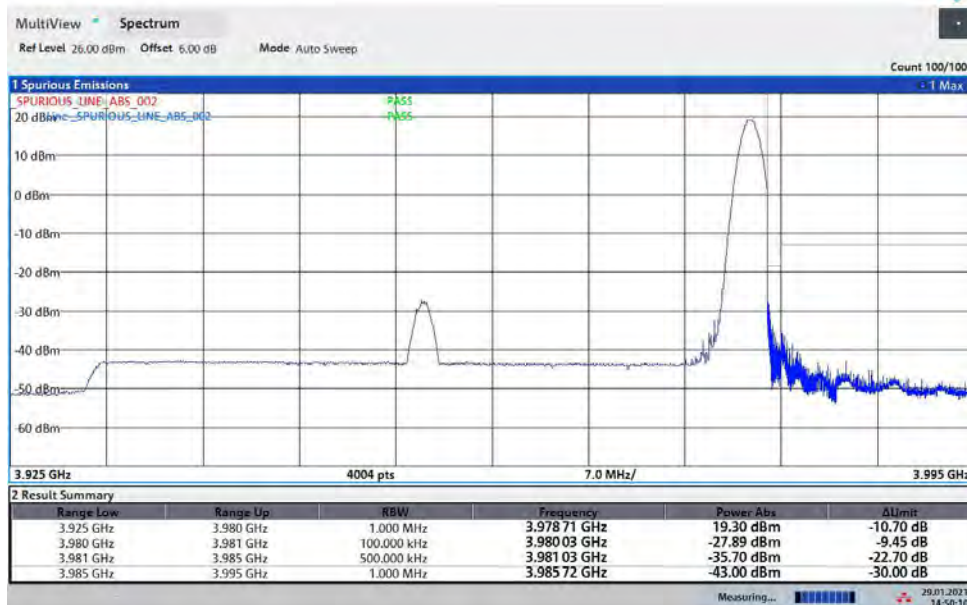
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N77 30KHz TM6 50MHz 648334 Outer Full

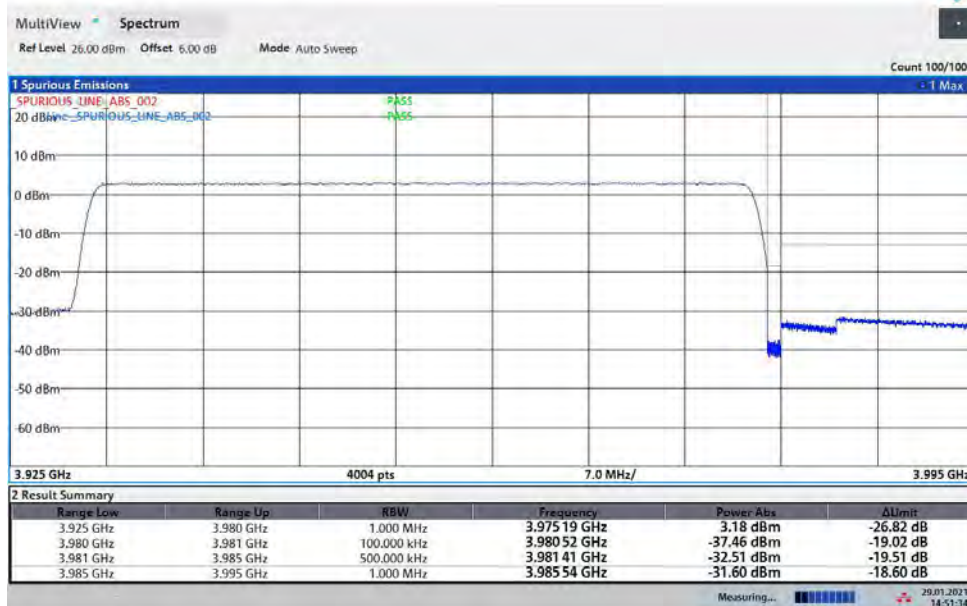


N77 30KHz TM6 50MHz 663666 Edge 1RB Right



14:50:10 29.01.2021

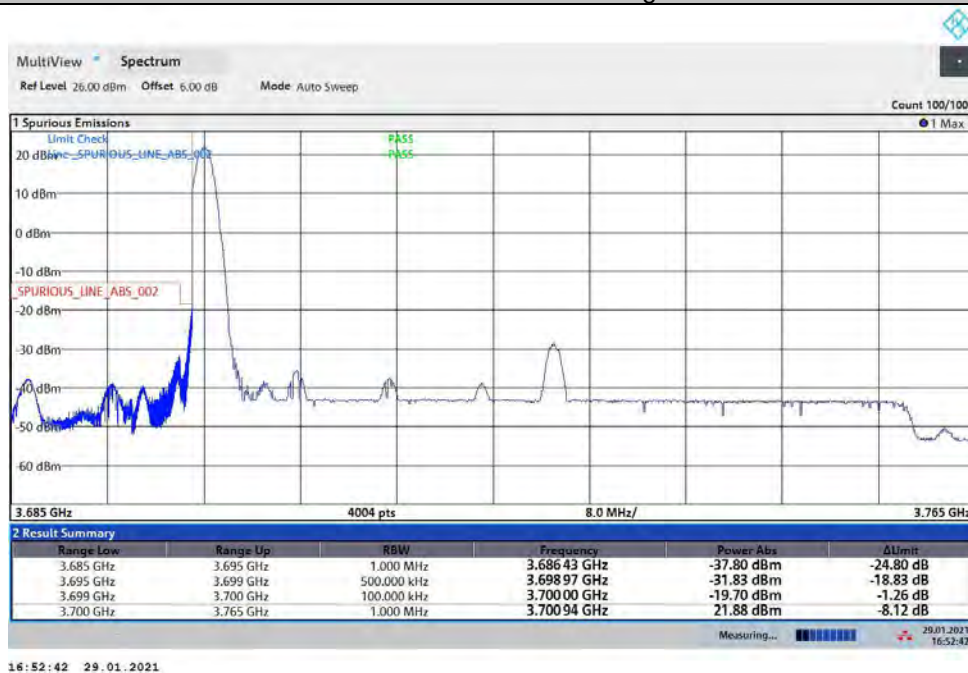
N77 30KHz TM6 50MHz 663666 Outer Full



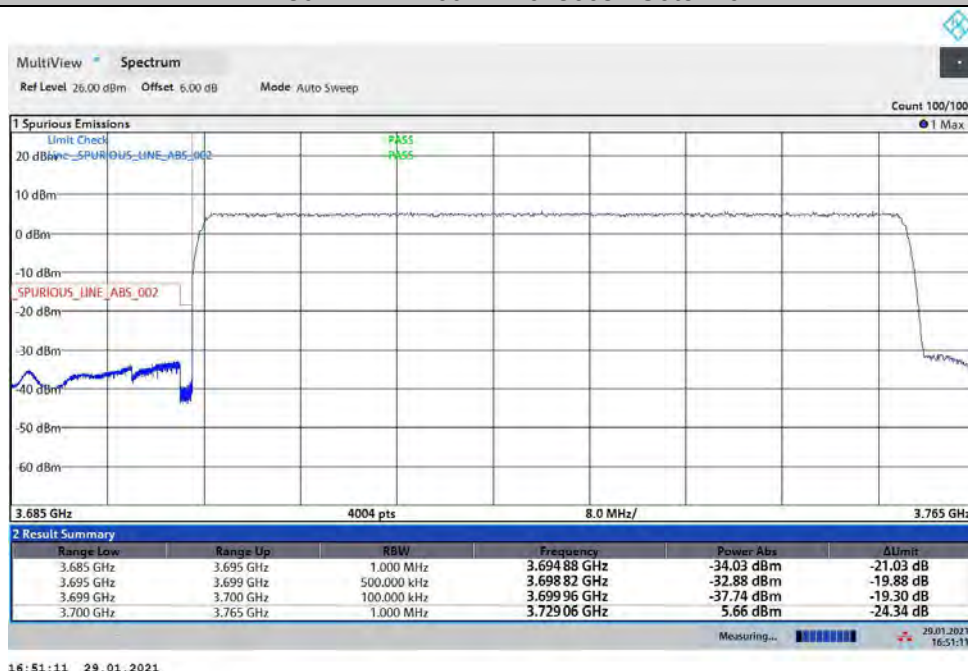
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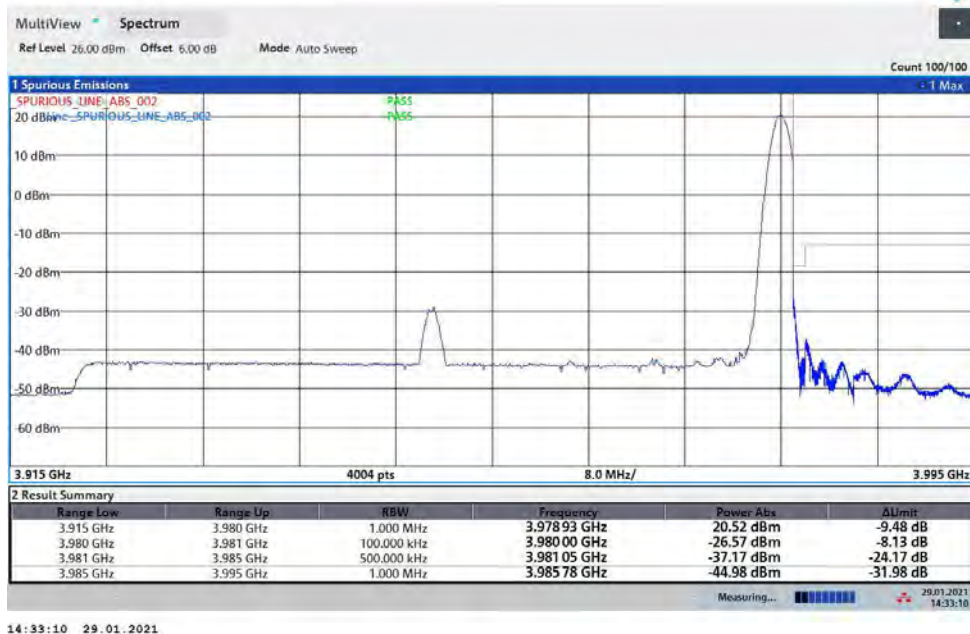
N77 30KHz TM1 60MHz 648668 Edge 1RB Left



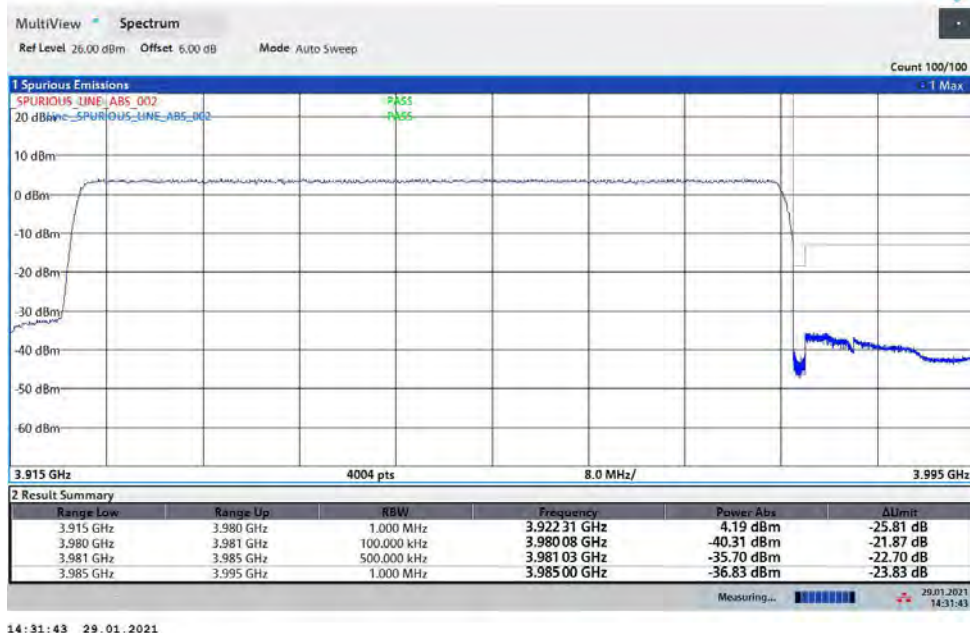
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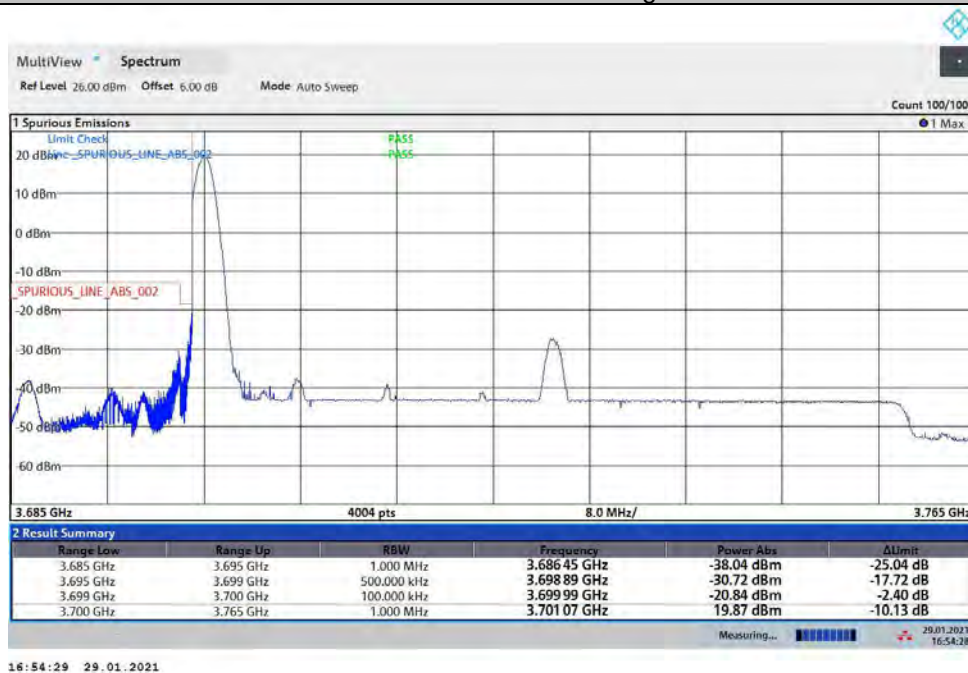
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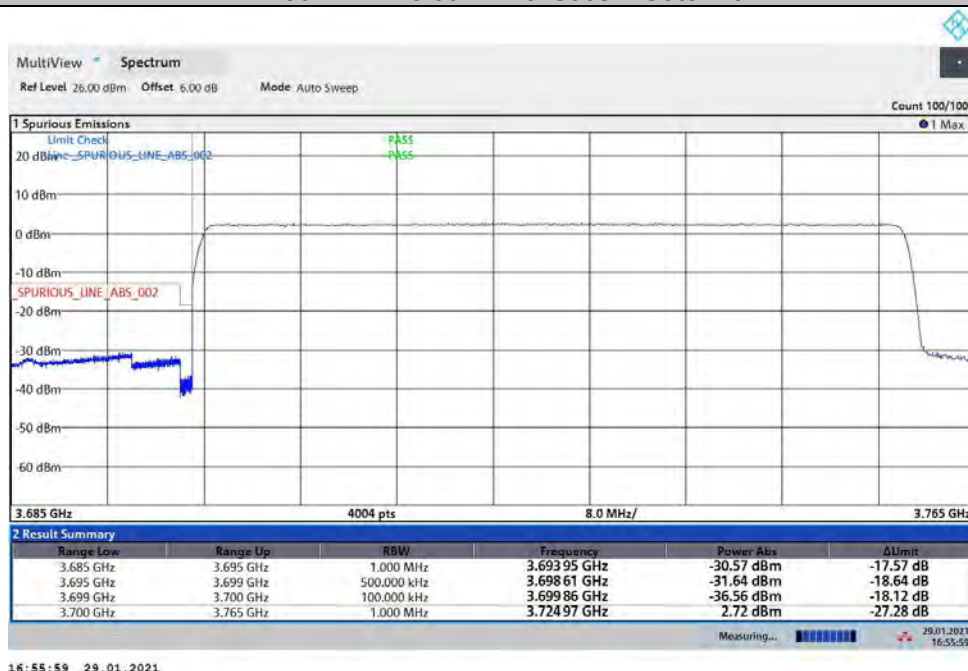
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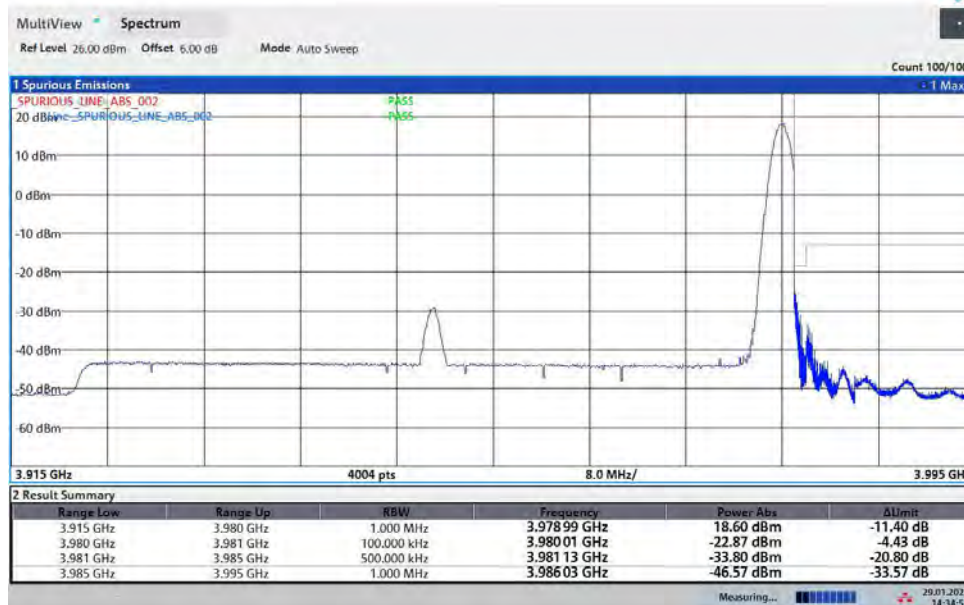
N77 30KHz TM6 60MHz 648668 Edge 1RB Left



N77 30KHz TM6 60MHz 648668 Outer Full

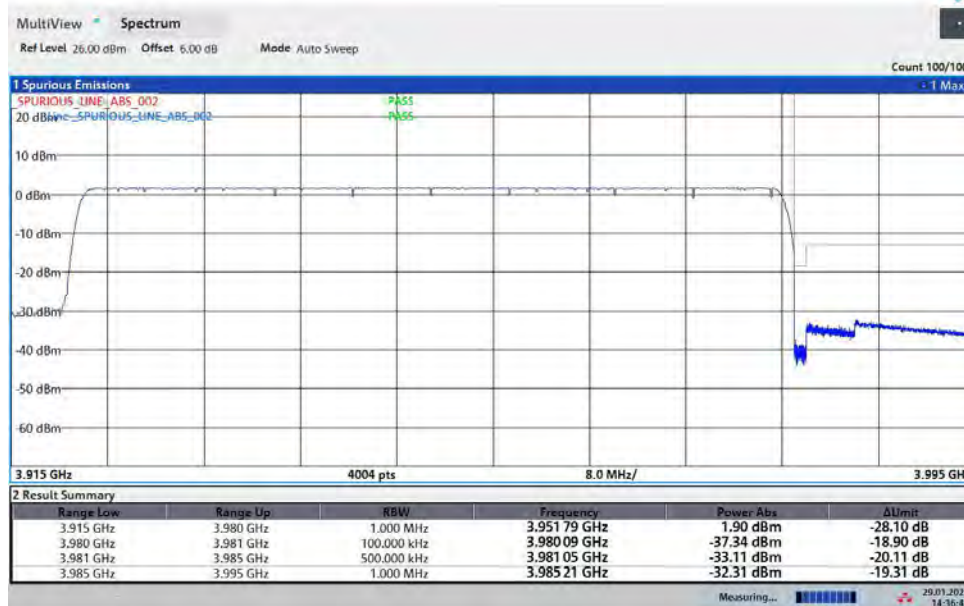


N77 30KHz TM6 60MHz 663332 Edge 1RB Right



14:34:52 29.01.2021

N77 30KHz TM6 60MHz 663332 Outer Full



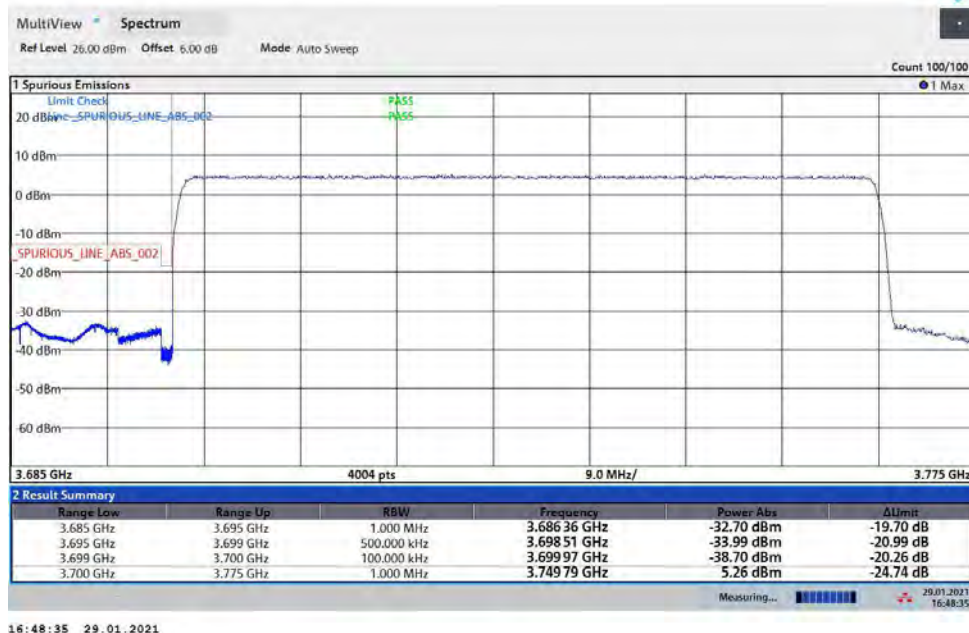
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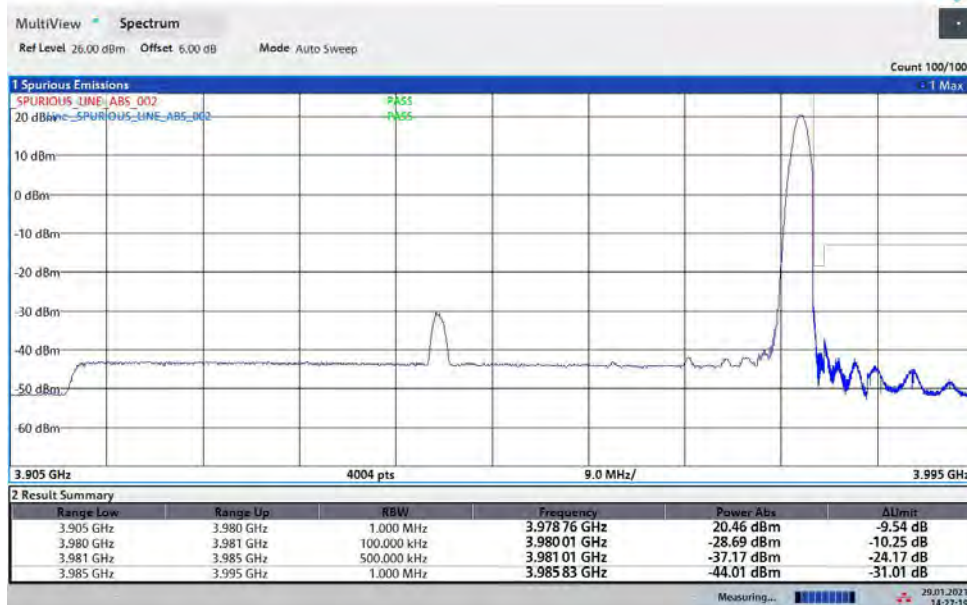
N77 30KHz TM1 70MHz 649000 Edge 1RB Left



N77 30KHz TM1 70MHz 649000 Outer Full

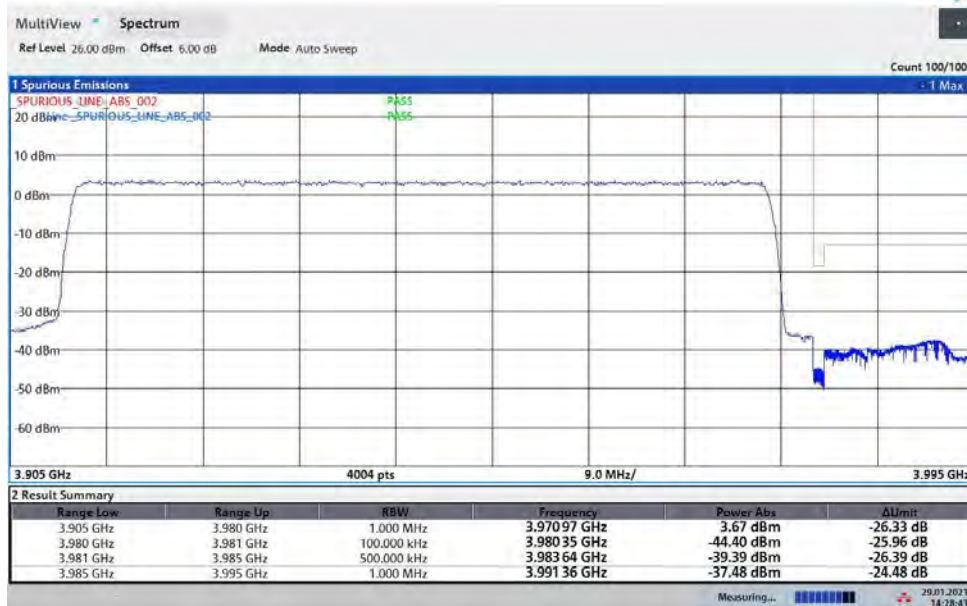


N77 30KHz TM1 70MHz 663000 Edge 1RB Right



14:27:20 29.01.2021

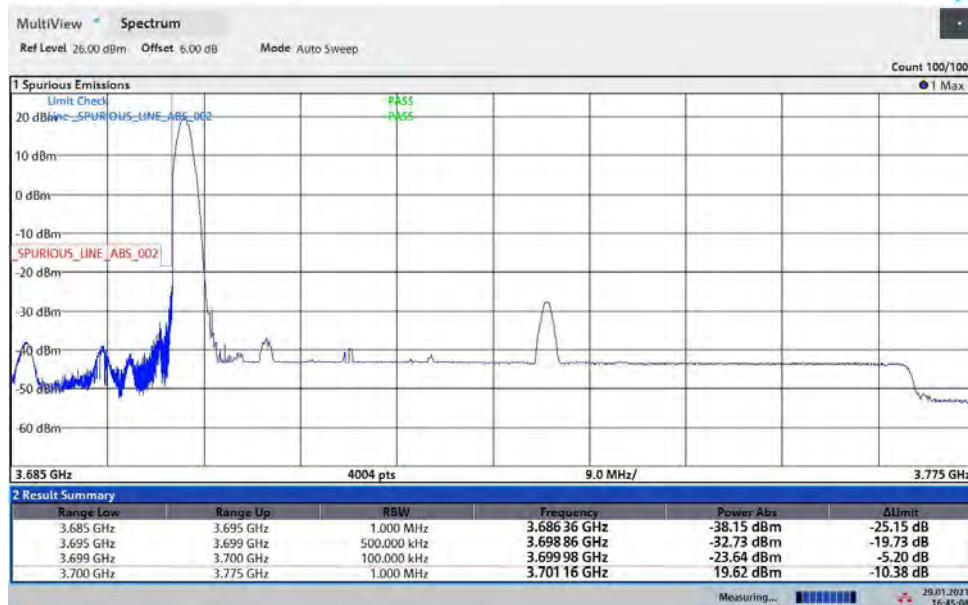
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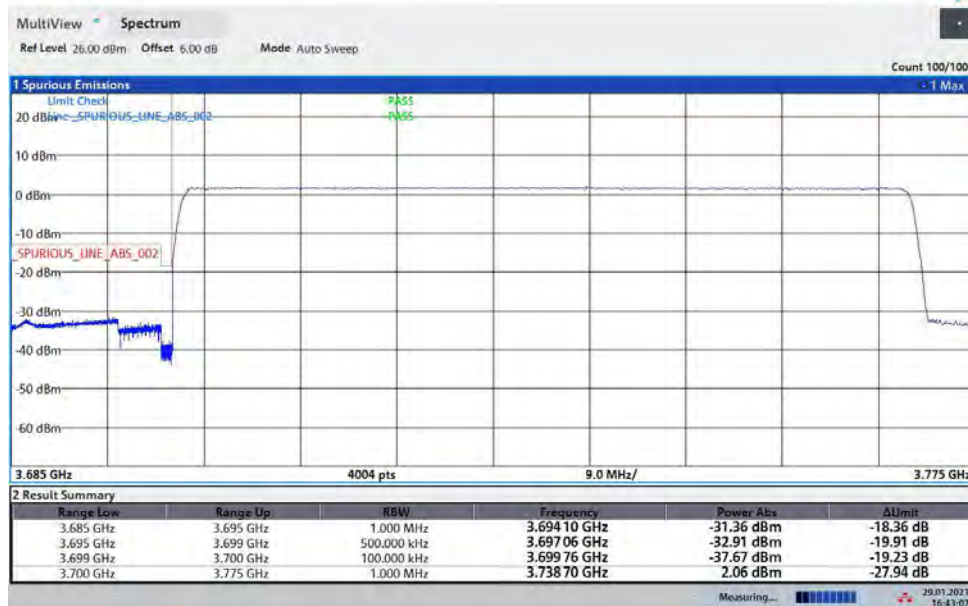


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16:45:09 29.01.2021

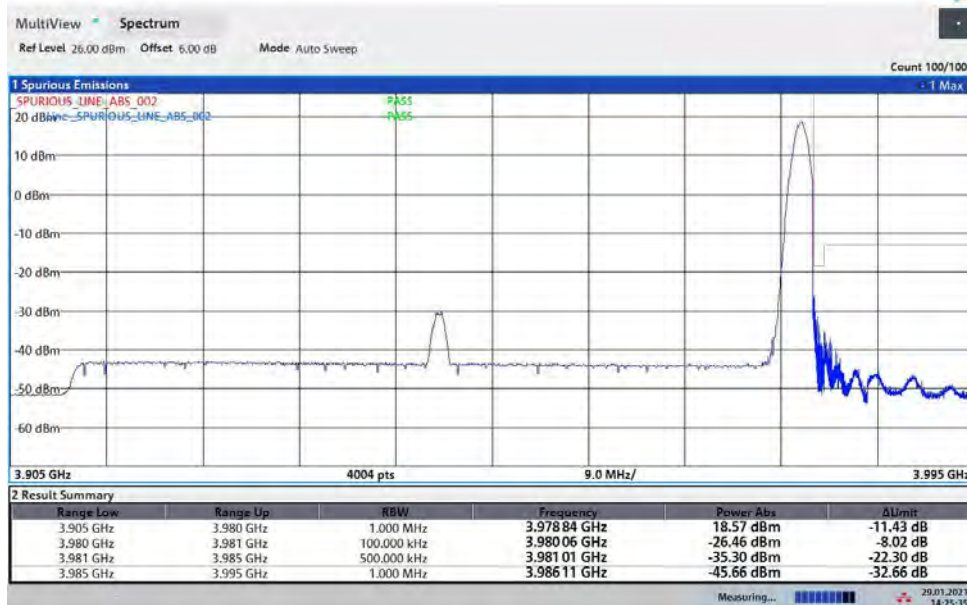
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16:43:07 29.01.2021

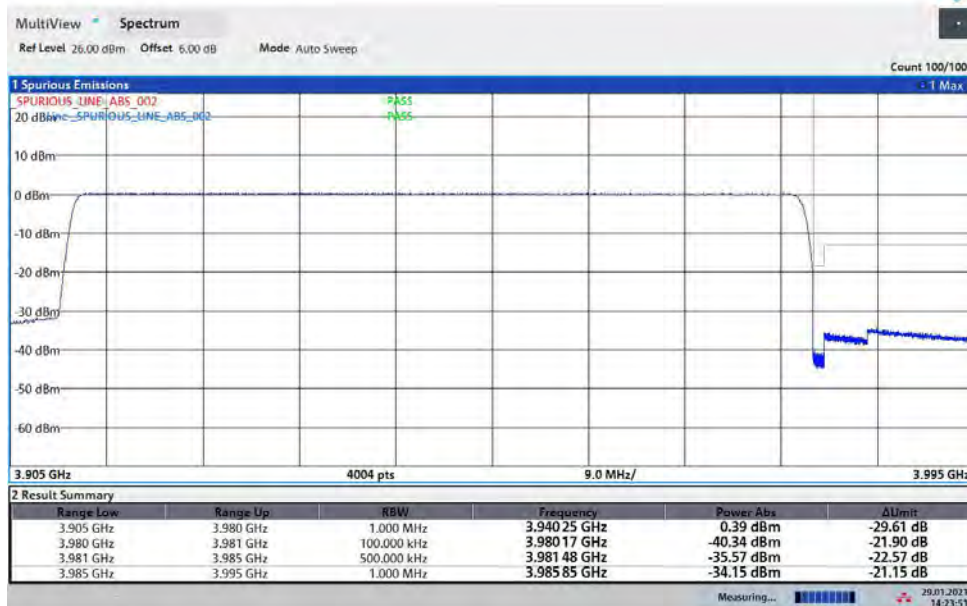


N77 30KHz TM6 70MHz 663000 Edge 1RB Right



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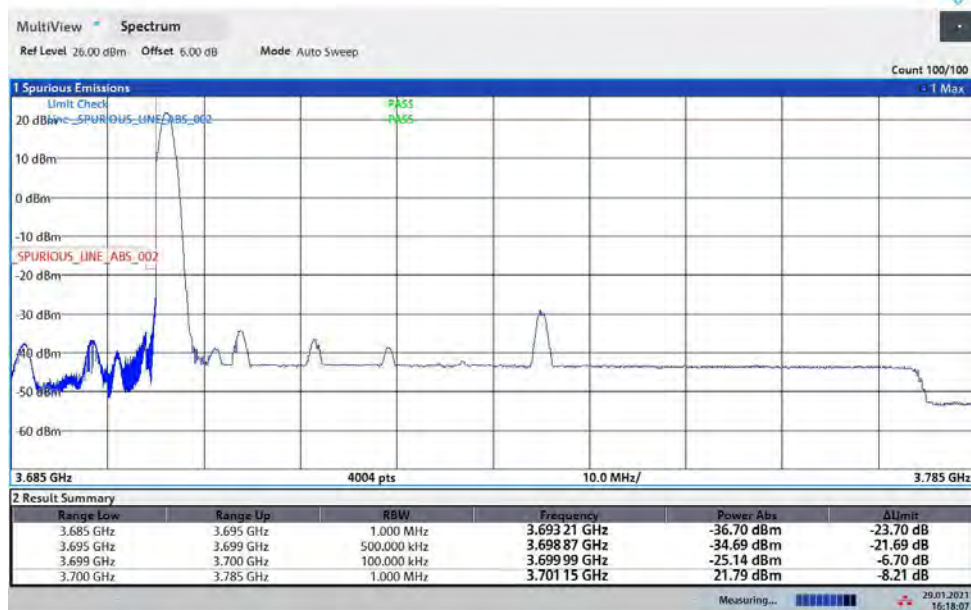
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14:25:52 29.01.2021



N77 30KHz TM1 80MHz 649334 Edge 1RB Left



16:18:07 29.01.2021

N77 30KHz TM1 80MHz 649334 Outer Full



16:16:27 29.01.2021

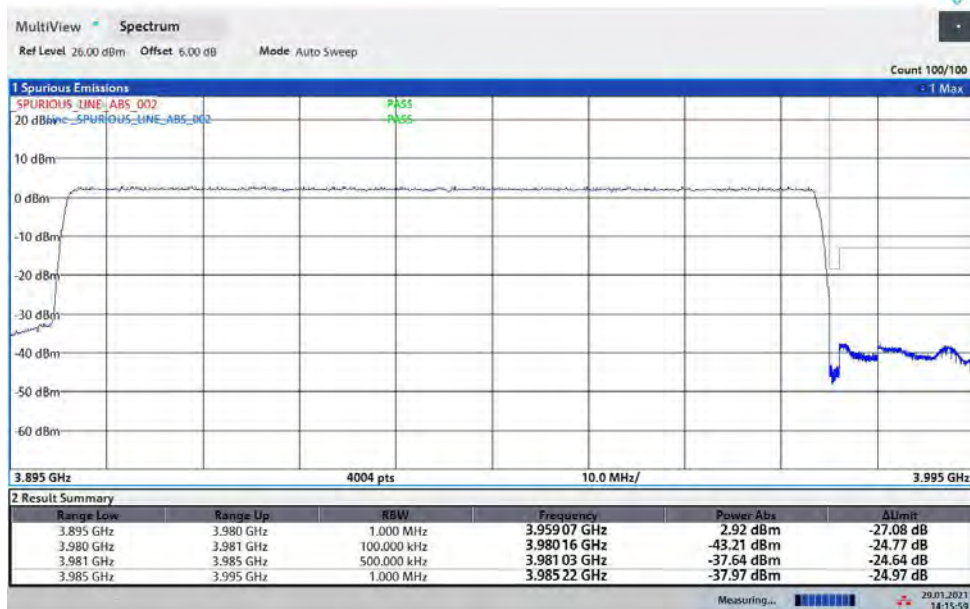


N77 30KHz TM1 80MHz 662666 Edge 1RB Right



14:18:29 29.01.2021

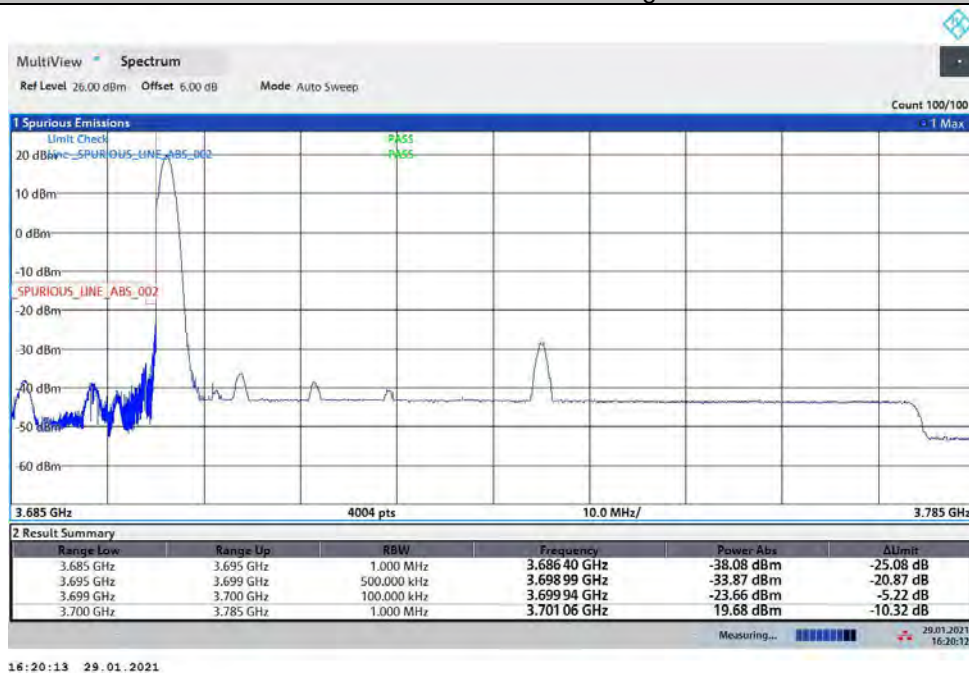
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14:15:59 29.01.2021

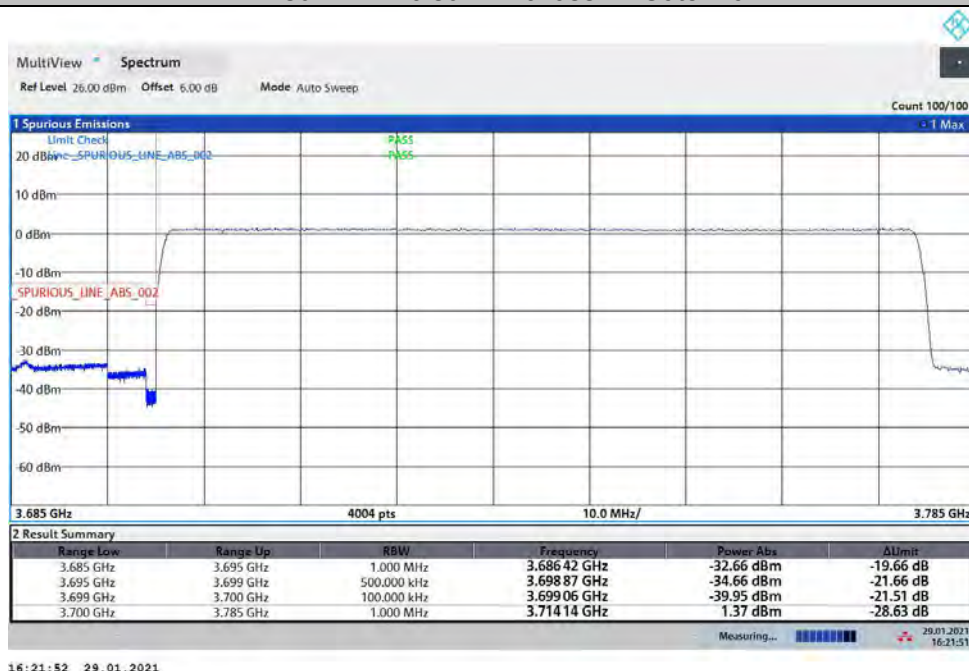


N77 30KHz TM6 80MHz 649334 Edge 1RB Left



16:20:13 29.01.2021

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16:21:52 29.01.2021

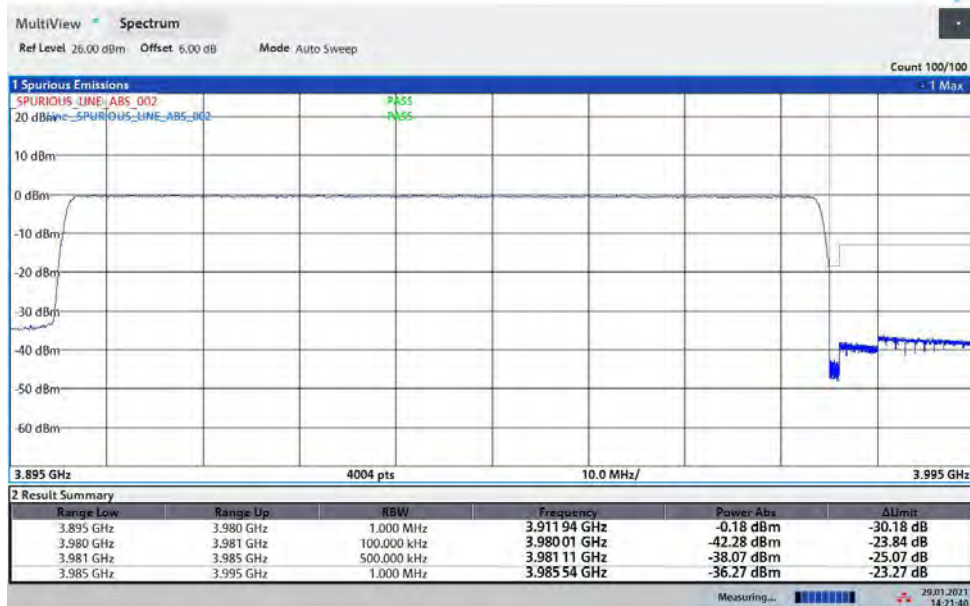


N77 30KHz TM6 80MHz 662666 Edge 1RB Right



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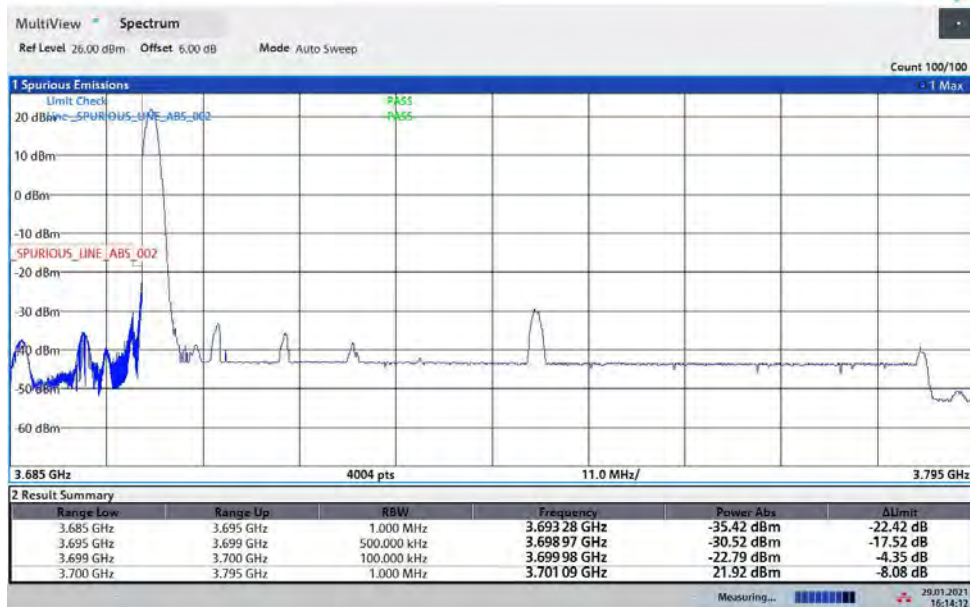
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14:21:40 29.01.2021

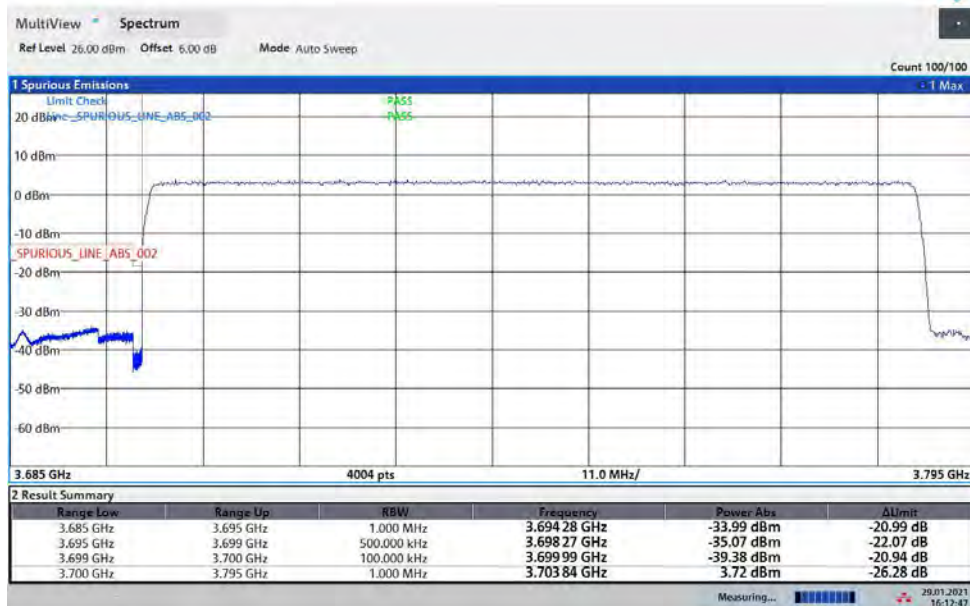


N77 30KHz TM1 90MHz 649668 Edge 1RB Left



16:14:13 29.01.2021

N77 30KHz TM1 90MHz 649668 Outer Full



16:12:47 29.01.2021

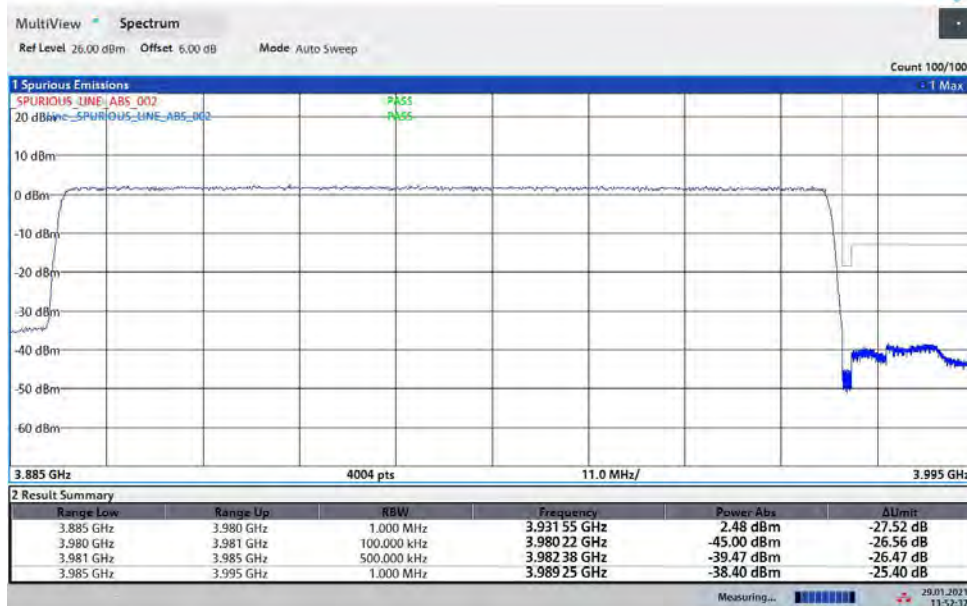


N77 30KHz TM1 90MHz 662332 Edge 1RB Right



13:56:49 29.01.2021

N77 30KHz TM1 90MHz 662332 Outer Full



13:52:33 29.01.2021



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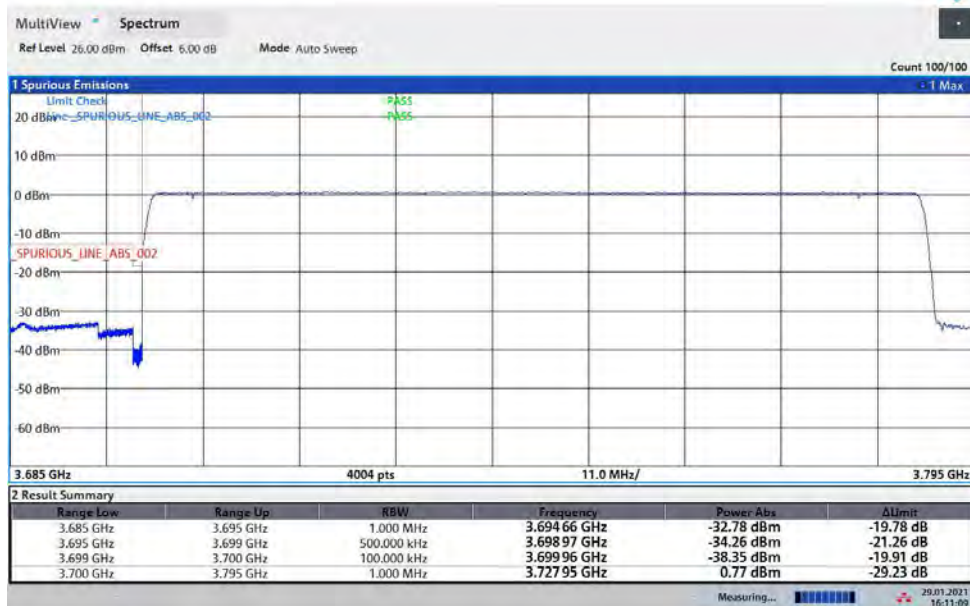
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N77 30KHz TM6 90MHz 649668 Edge 1RB Left



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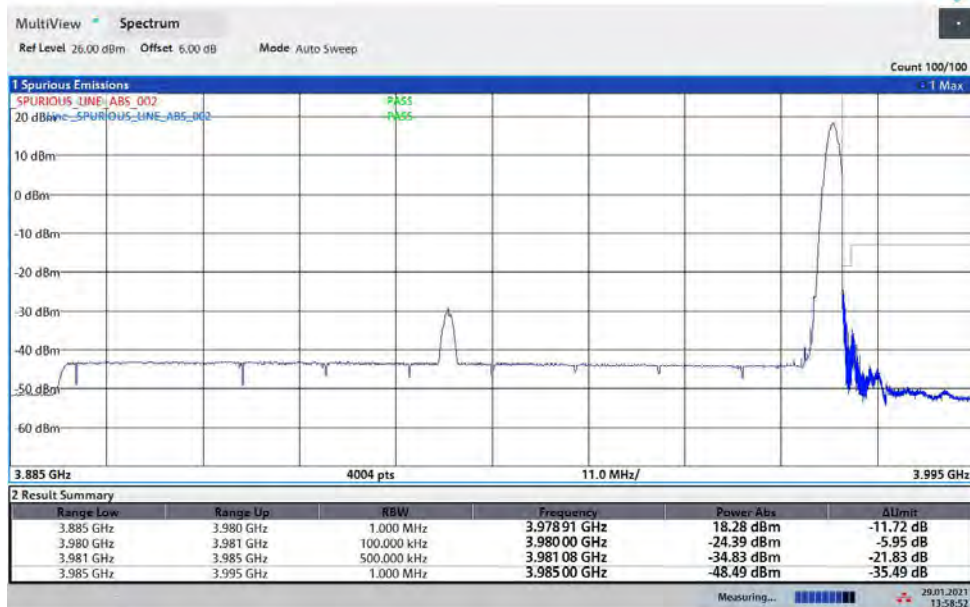
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16:11:09 29.01.2021

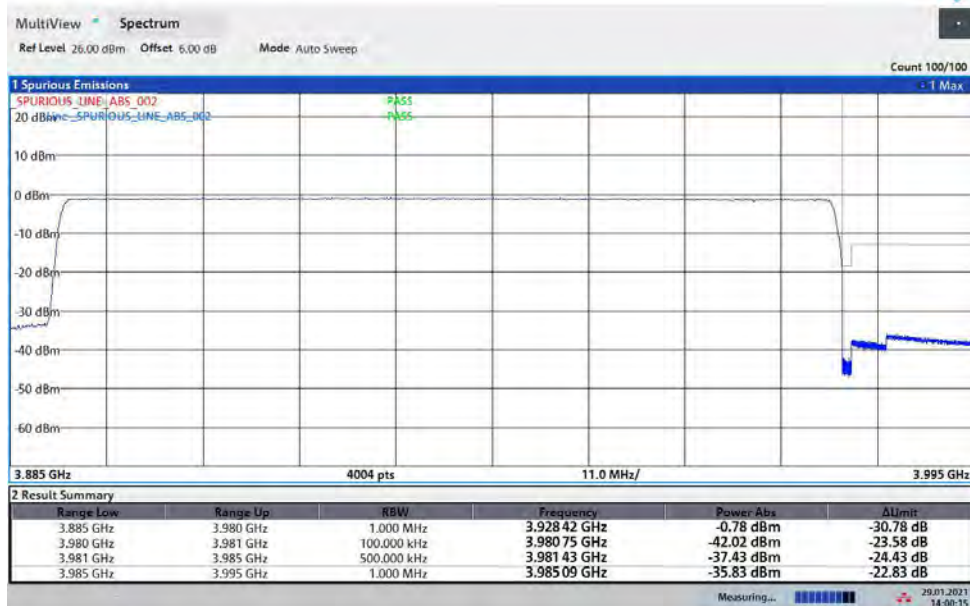


N77 30KHz TM6 90MHz 662332 Edge 1RB Right



13:58:53 29.01.2021

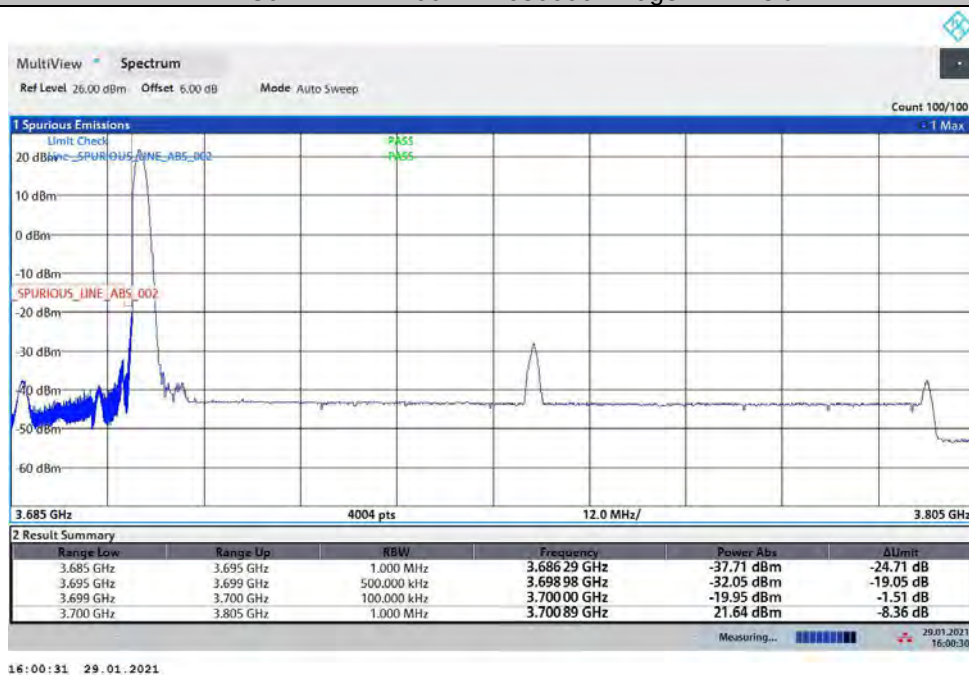
N77 30KHz TM6 90MHz 662332 Outer Full



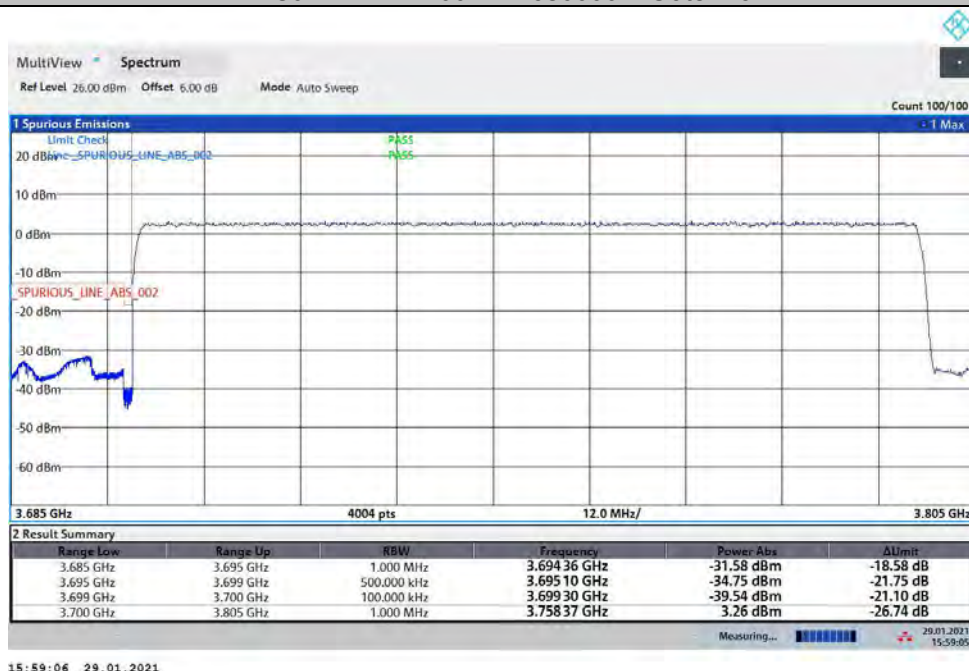
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N77 30KHz TM1 100MHz 650000 Edge 1RB Left



N77 30KHz TM1 100MHz 650000 Outer Full



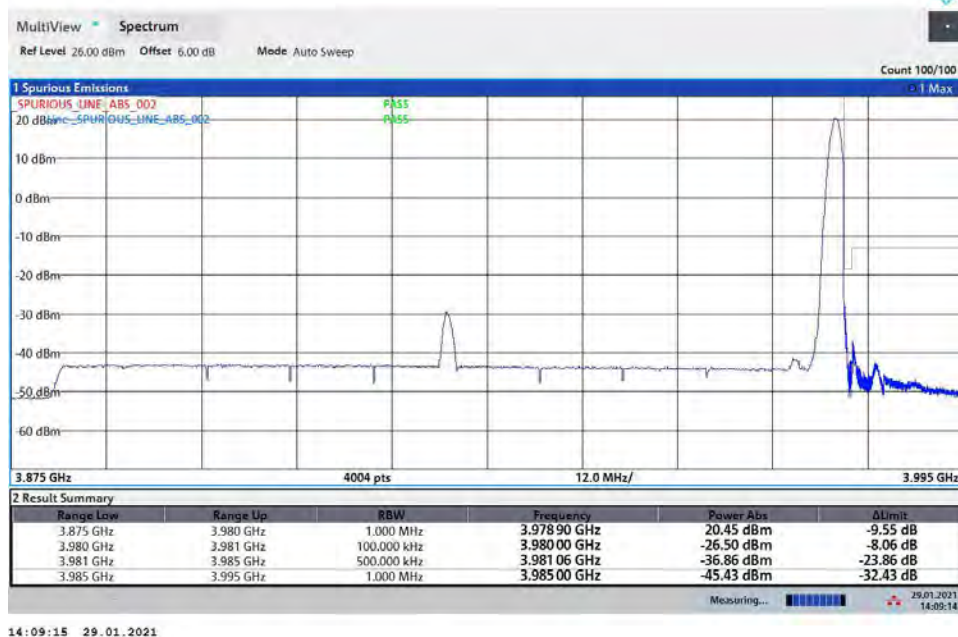
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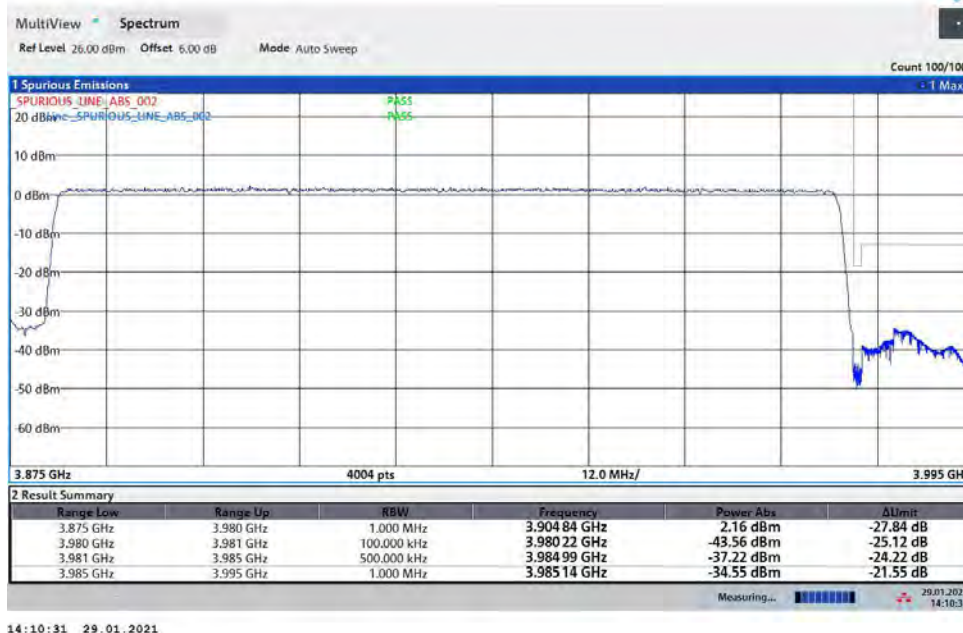
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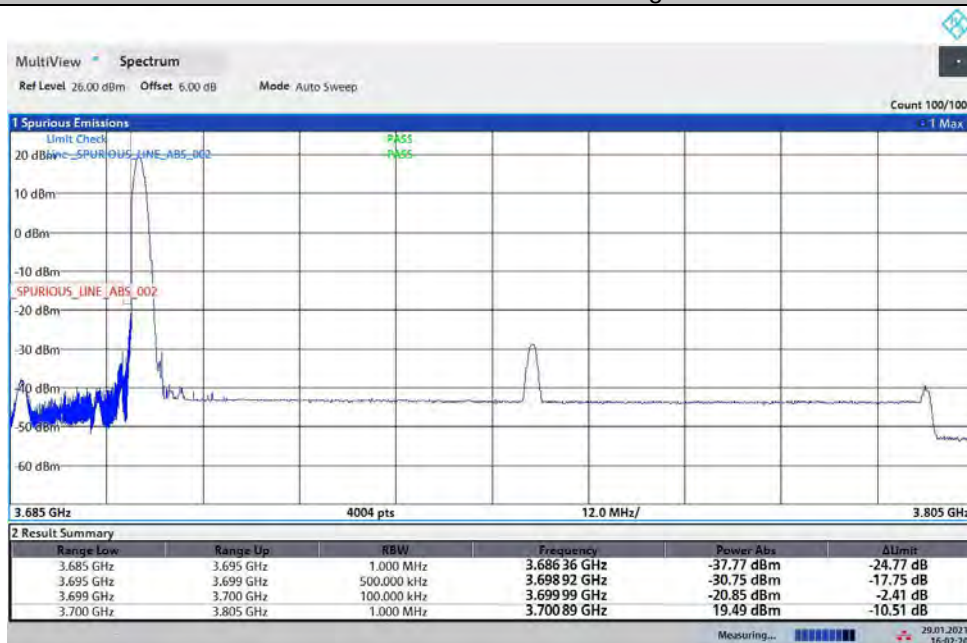
N77 30KHz TM1 100MHz 662000 Edge 1RB Right



N77 30KHz TM1 100MHz 662000 Outer Full



N77 30KHz TM6 100MHz 650000 Edge 1RB Left



16:02:21 29.01.2021

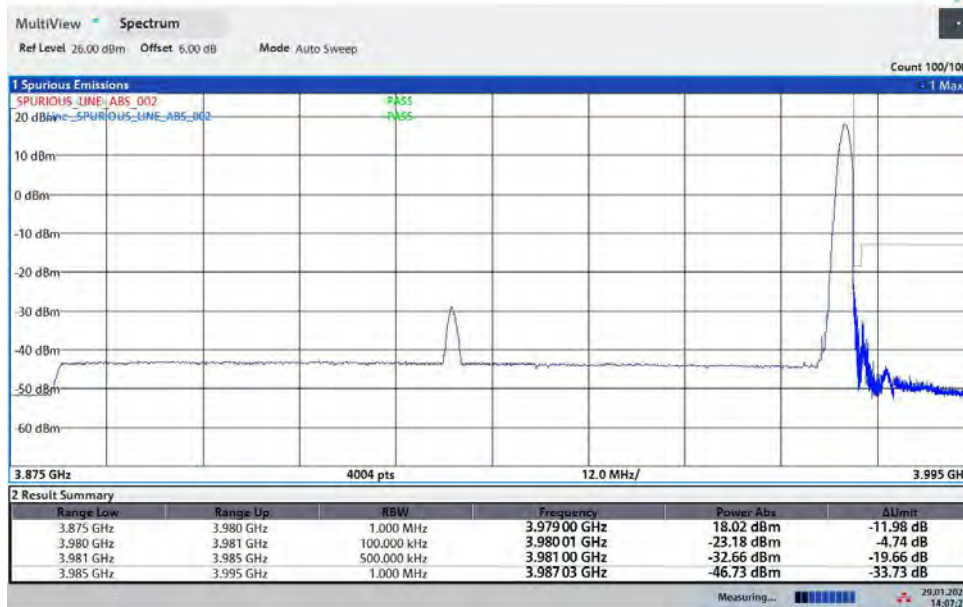
N77 30KHz TM6 100MHz 650000 Outer Full



16:03:39 29.01.2021

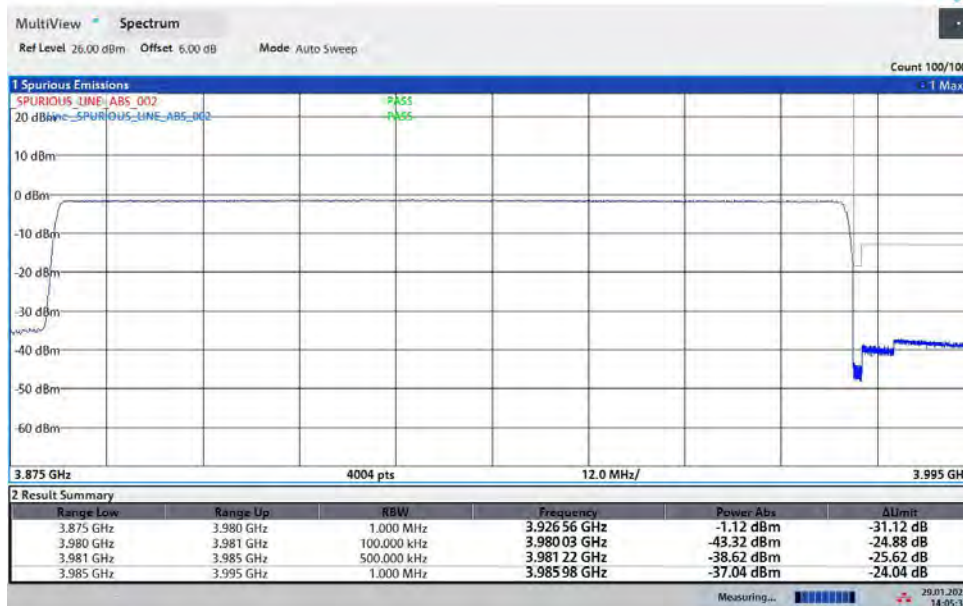


N77 30KHz TM6 100MHz 662000 Edge 1RB Right



14:07:25 29.01.2021

N77 30KHz TM6 100MHz 662000 Outer Full



14:05:38 29.01.2021

REMARK:

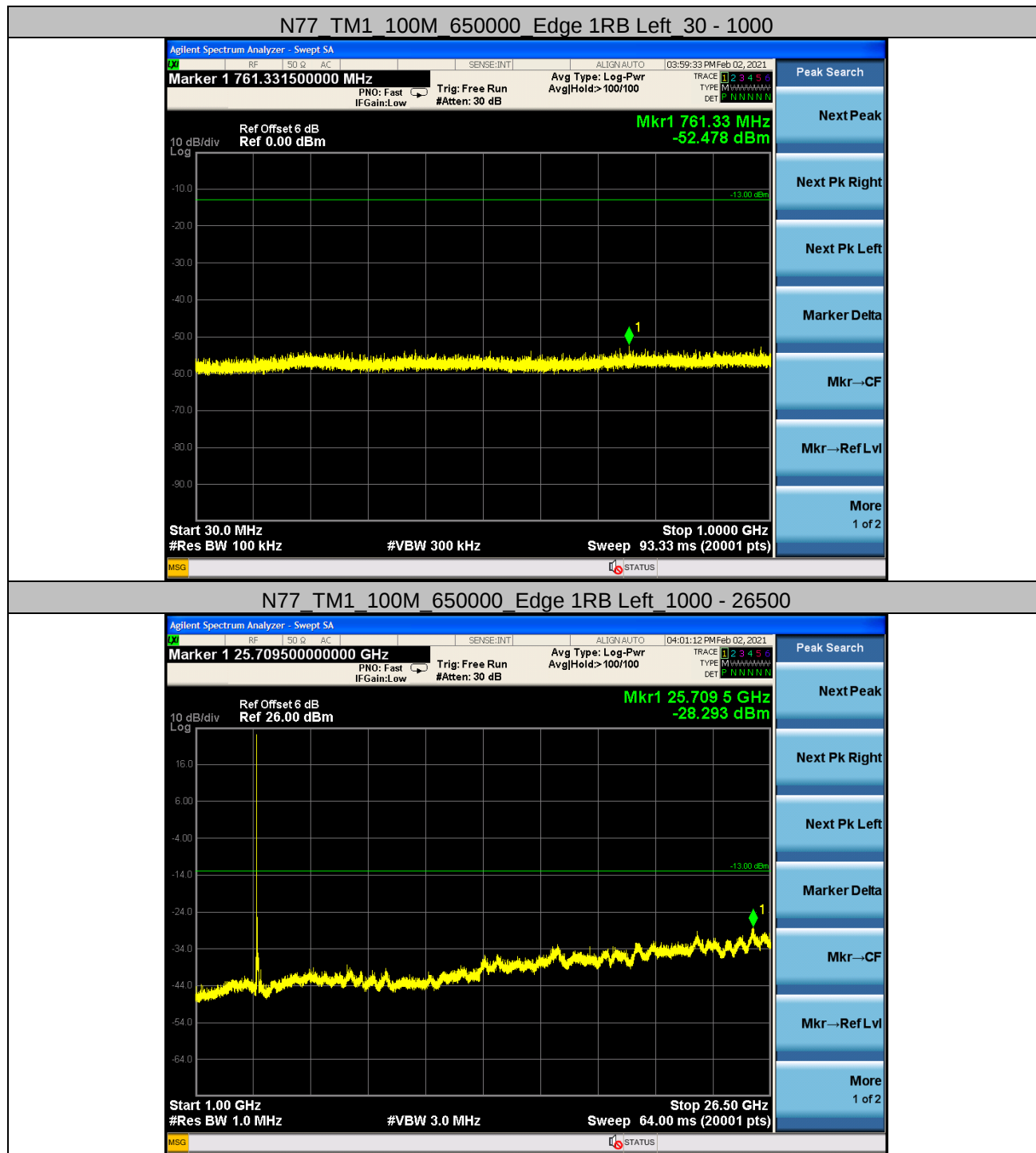
All antenna and all modulation had been tested, but only the worst case data displayed in this report



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 = $k \times (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

6.1 Test Plots



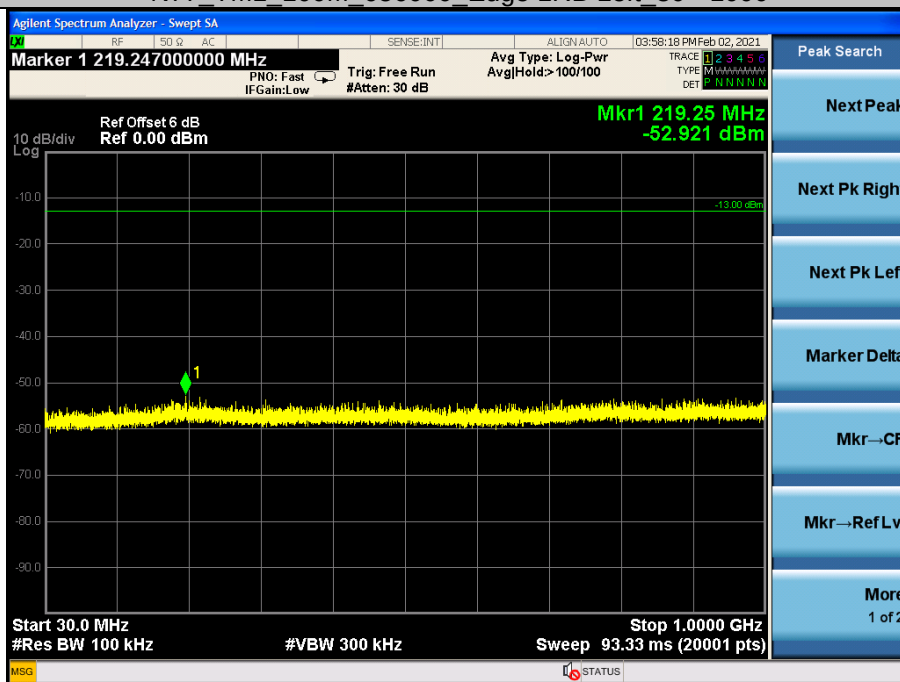
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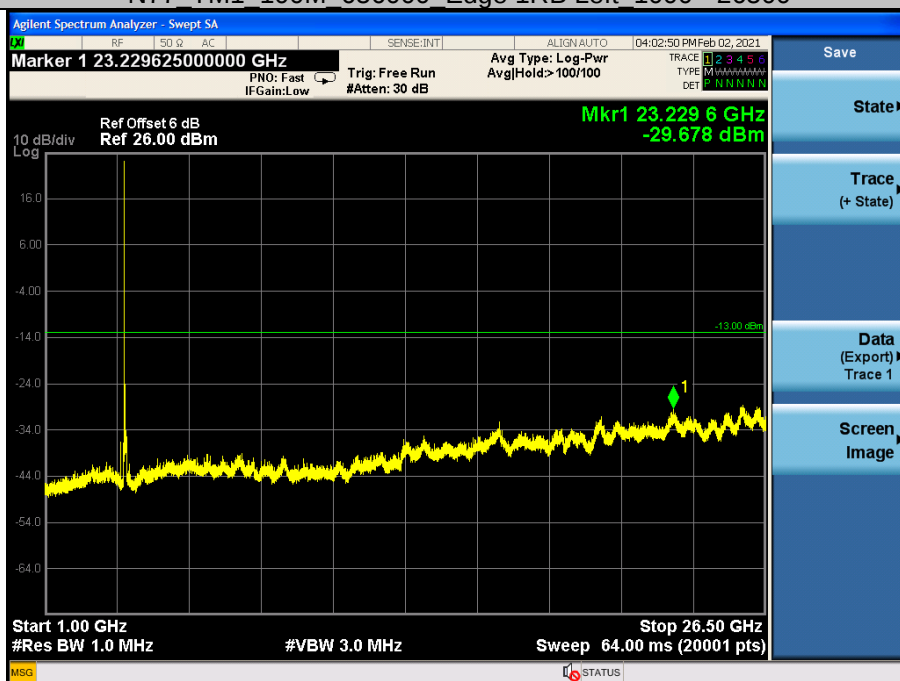
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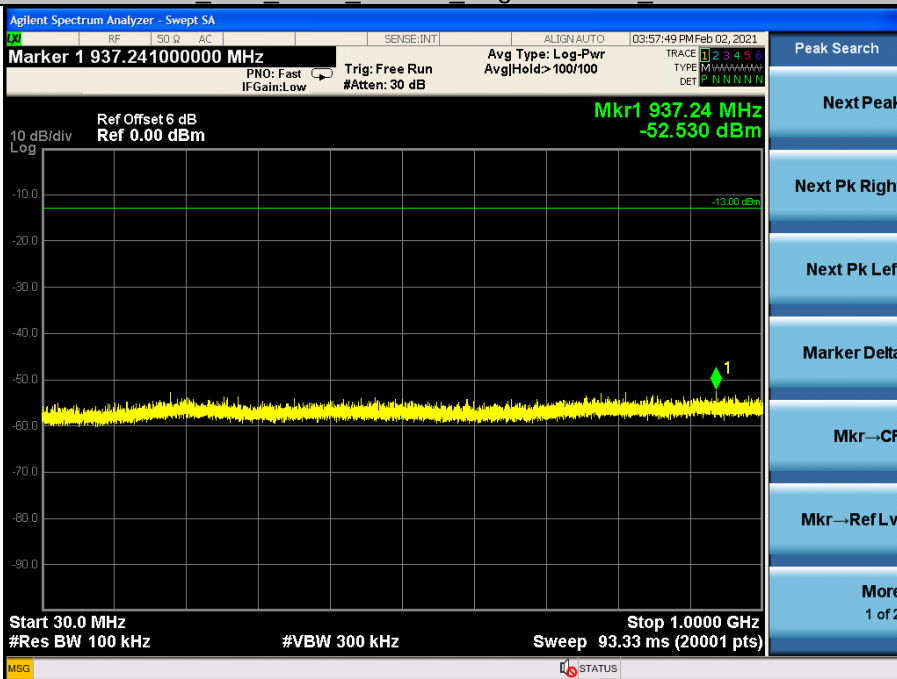
N77 TM1 100M 656000 Edge 1RB Left 30 - 1000



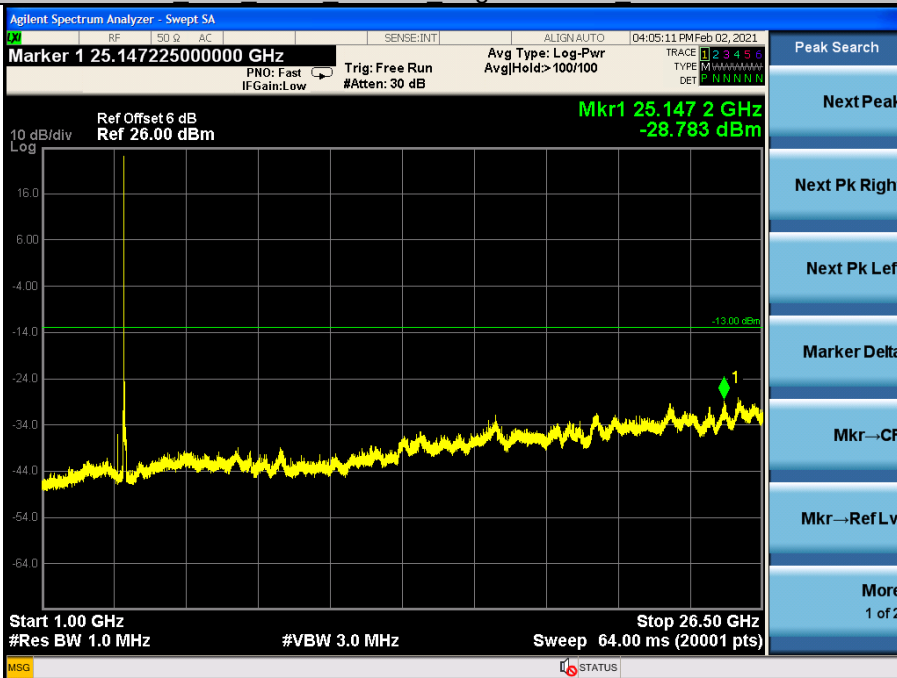
N77 TM1 100M 656000 Edge 1RB Left 1000 - 26500



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



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



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7 Field Strength of Spurious Radiation

7.1 Test Band = N77(ant3)

7.1.1 Test Mode = 100MHz _TM 1

7.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
39.7000	-73.05	-25.00	48.05	Vertical
102.2650	-67.67	-25.00	42.67	Vertical
820.3075	-70.51	-25.00	45.51	Vertical
2652.0000	-51.75	-25.00	26.75	Vertical
5197.1599	-42.27	-25.00	17.27	Vertical
17870.9936	-38.16	-25.00	13.16	Vertical
37.2750	-73.87	-25.00	48.87	Horizontal
208.4800	-74.33	-25.00	49.33	Horizontal
901.5450	-69.47	-25.00	44.47	Horizontal
2646.5000	-52.59	-25.00	27.59	Horizontal
5143.0072	-42.00	-25.00	17.00	Horizontal
17872.7936	-35.35	-25.00	10.35	Horizontal

7.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
38.9725	-72.59	-25.00	47.59	Vertical
99.8400	-66.76	-25.00	41.76	Vertical
740.2825	-70.76	-25.00	45.76	Vertical
1776.0000	-56.28	-25.00	31.28	Vertical
10109.0055	-49.20	-25.00	24.20	Vertical
17839.7920	-37.84	-25.00	12.84	Vertical
-73.05	-73.36	-25.00	48.36	Horizontal
-67.67	-74.04	-25.00	49.04	Horizontal
-70.51	-70.82	-25.00	45.82	Horizontal
-51.75	-56.32	-25.00	31.32	Horizontal
-42.27	-55.65	-25.00	30.65	Horizontal
-38.16	-38.62	-25.00	13.62	Horizontal



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7.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
39.7000	-70.43	-25.00	45.43	Vertical
101.5375	-66.75	-25.00	41.75	Vertical
750.7100	-71.25	-25.00	46.25	Vertical
3186.1593	-45.42	-25.00	20.42	Vertical
5730.2865	-41.17	-25.00	16.17	Vertical
17497.7749	-41.16	-25.00	16.16	Vertical
37.2750	-71.00	-25.00	46.00	Horizontal
202.1750	-69.58	-25.00	44.58	Horizontal
736.6450	-71.19	-25.00	46.19	Horizontal
1949.5000	-56.34	-25.00	31.34	Horizontal
5818.7909	-40.26	-25.00	15.26	Horizontal
17860.1930	-38.09	-25.00	13.09	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.
- 4 The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.





8 Frequency Stability

8.1 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	-3.38	-0.00090	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	NT	-0.96	-0.00026	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VH	NT	2.32	0.00062	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VL	NT	-3.82	-0.00099	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	NT	1.34	0.00035	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VH	NT	-2.45	-0.00064	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VL	NT	1.78	0.00045	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	NT	-4.61	-0.00117	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VH	NT	2.8	0.00071	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VL	NT	-4.63	-0.00123	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	NT	-5.35	-0.00143	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VH	NT	-2.09	-0.00056	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VL	NT	-4.38	-0.00114	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	NT	-1.69	-0.00044	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VH	NT	-5.72	-0.00149	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VL	NT	2.31	0.00059	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	NT	-3.18	-0.00081	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VH	NT	-4.23	-0.00108	±2.5	PASS

8.2 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	-1.9	-0.00051	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	-20	4.17	0.00111	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	-10	-0.18	-0.00005	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	0	-0.83	-0.00022	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	10	0.28	0.00007	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	20	-2.91	-0.00078	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	30	-2.59	-0.00069	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	40	0.61	0.00016	±2.5	PASS
N77	30KHz	100MHz	TM1	650000	Outer Full	VN	50	-2.19	-0.00058	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	-30	4.07	0.00106	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	-20	-1.94	-0.00051	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	-10	6.78	0.00177	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	0	-0.72	-0.00019	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	10	4.04	0.00105	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	20	0.79	0.00021	±2.5	PASS



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N77	30KHz	100MHz	TM1	656000	Outer Full	VN	30	-1.61	-0.00042	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	40	5.7	0.00148	±2.5	PASS
N77	30KHz	100MHz	TM1	656000	Outer Full	VN	50	-3.13	-0.00082	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	-30	0.83	0.00021	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	-20	0.57	0.00015	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	-10	-1.43	-0.00036	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	0	0.11	0.00003	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	10	-1.28	-0.00033	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	20	2.46	0.00063	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	30	-0.27	-0.00007	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	40	2.82	0.00072	±2.5	PASS
N77	30KHz	100MHz	TM1	662000	Outer Full	VN	50	6.25	0.00159	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	-30	-1.17	-0.00031	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	-20	-4.16	-0.00111	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	-10	5.23	0.00139	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	0	-5.86	-0.00156	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	10	-7.22	-0.00193	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	20	5.97	0.00159	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	30	8.28	0.00221	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	40	11.33	0.00302	±2.5	PASS
N77	30KHz	100MHz	TM6	650000	Outer Full	VN	50	7.12	0.00190	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	-30	11.85	0.00309	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	-20	5.39	0.00140	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	-10	-8.29	-0.00216	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	0	11.19	0.00291	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	10	-4.87	-0.00127	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	20	-2.86	-0.00074	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	30	2.52	0.00066	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	40	6.14	0.00160	±2.5	PASS
N77	30KHz	100MHz	TM6	656000	Outer Full	VN	50	-1.84	-0.00048	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	-30	-2.69	-0.00068	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	-20	3.03	0.00077	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	-10	0.62	0.00016	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	0	7.09	0.00180	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	10	-10.03	-0.00255	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	20	1.28	0.00033	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	30	5.98	0.00152	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	40	-4.39	-0.00112	±2.5	PASS
N77	30KHz	100MHz	TM6	662000	Outer Full	VN	50	-9.11	-0.00232	±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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