

Appendix B

NR band N38



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1 Effective (Isotropic) Radiated Power Output Data(ANT1)

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N38	20MHz	30KHz	TM1	516000	Inner Full	23.45	26.50	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Left	23.57	26.62	33	PASS
N38	20MHz	30KHz	TM1	516000	Inner 1RB Right	23.48	26.53	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner Full	22.19	25.24	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Left	21.85	24.90	33	PASS
N38	20MHz	30KHz	TM1	519000	Inner 1RB Right	21.56	24.61	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner Full	23.24	26.29	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Left	23.59	26.64	33	PASS
N38	20MHz	30KHz	TM1	522000	Inner 1RB Right	23.39	26.44	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner Full	23.47	26.52	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Left	23.57	26.62	33	PASS
N38	20MHz	30KHz	TM2	516000	Inner 1RB Right	23.44	26.49	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner Full	22.15	25.20	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Left	21.96	25.01	33	PASS
N38	20MHz	30KHz	TM2	519000	Inner 1RB Right	21.62	24.67	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner Full	22.96	26.01	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Left	23.27	26.32	33	PASS
N38	20MHz	30KHz	TM2	522000	Inner 1RB Right	23.12	26.17	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner Full	22.67	25.72	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Left	22.57	25.62	33	PASS
N38	20MHz	30KHz	TM3	516000	Inner 1RB Right	22.48	25.53	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner Full	21.44	24.49	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Left	21.92	24.97	33	PASS
N38	20MHz	30KHz	TM3	519000	Inner 1RB Right	21.71	24.76	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner Full	21.72	24.77	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Left	22.52	25.57	33	PASS
N38	20MHz	30KHz	TM3	522000	Inner 1RB Right	22.03	25.08	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner Full	20.78	23.83	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Left	21.21	24.26	33	PASS
N38	20MHz	30KHz	TM4	516000	Inner 1RB Right	20.81	23.86	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner Full	19.90	22.95	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Left	20.16	23.21	33	PASS
N38	20MHz	30KHz	TM4	519000	Inner 1RB Right	19.83	22.88	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner Full	20.11	23.16	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Left	20.89	23.94	33	PASS
N38	20MHz	30KHz	TM4	522000	Inner 1RB Right	20.89	23.94	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner Full	20.93	23.98	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Left	21.47	24.52	33	PASS
N38	20MHz	30KHz	TM5	516000	Inner 1RB Right	20.60	23.65	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner Full	20.06	23.11	33	PASS
N38	20MHz	30KHz	TM5	519000	Inner 1RB Left	20.21	23.26	33	PASS



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N38	20MHz	30KHz	TM5	519000	Inner 1RB Right	19.76	22.81	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner Full	20.64	23.69	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Left	20.51	23.56	33	PASS
N38	20MHz	30KHz	TM5	522000	Inner 1RB Right	20.75	23.80	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner Full	23.54	26.59	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Left	23.84	26.89	33	PASS
N38	20MHz	30KHz	TM6	516000	Inner 1RB Right	23.51	26.56	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner Full	21.91	24.96	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Left	22.09	25.14	33	PASS
N38	20MHz	30KHz	TM6	519000	Inner 1RB Right	22.20	25.25	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner Full	23.29	26.34	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Left	23.52	26.57	33	PASS
N38	20MHz	30KHz	TM6	522000	Inner 1RB Right	23.30	26.35	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner Full	22.32	25.37	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Left	22.29	25.34	33	PASS
N38	20MHz	30KHz	TM7	516000	Inner 1RB Right	22.29	25.34	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner Full	21.44	24.49	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Left	21.44	24.49	33	PASS
N38	20MHz	30KHz	TM7	519000	Inner 1RB Right	21.32	24.37	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner Full	22.11	25.16	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Left	22.57	25.62	33	PASS
N38	20MHz	30KHz	TM7	522000	Inner 1RB Right	22.09	25.14	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner Full	21.04	24.09	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Left	21.11	24.16	33	PASS
N38	20MHz	30KHz	TM8	516000	Inner 1RB Right	20.63	23.68	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner Full	19.91	22.96	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Left	20.26	23.31	33	PASS
N38	20MHz	30KHz	TM8	519000	Inner 1RB Right	20.05	23.10	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner Full	20.24	23.29	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Left	20.72	23.77	33	PASS
N38	20MHz	30KHz	TM8	522000	Inner 1RB Right	20.61	23.66	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner Full	21.15	24.20	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Left	21.15	24.20	33	PASS
N38	20MHz	30KHz	TM9	516000	Inner 1RB Right	21.02	24.07	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner Full	20.13	23.18	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Left	19.90	22.95	33	PASS
N38	20MHz	30KHz	TM9	519000	Inner 1RB Right	19.97	23.02	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner Full	19.82	22.87	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Left	19.62	22.67	33	PASS
N38	20MHz	30KHz	TM9	522000	Inner 1RB Right	19.69	22.74	33	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

ERP [dBm] = Conducted Power [dBm] + Gain [dBi] -2.15



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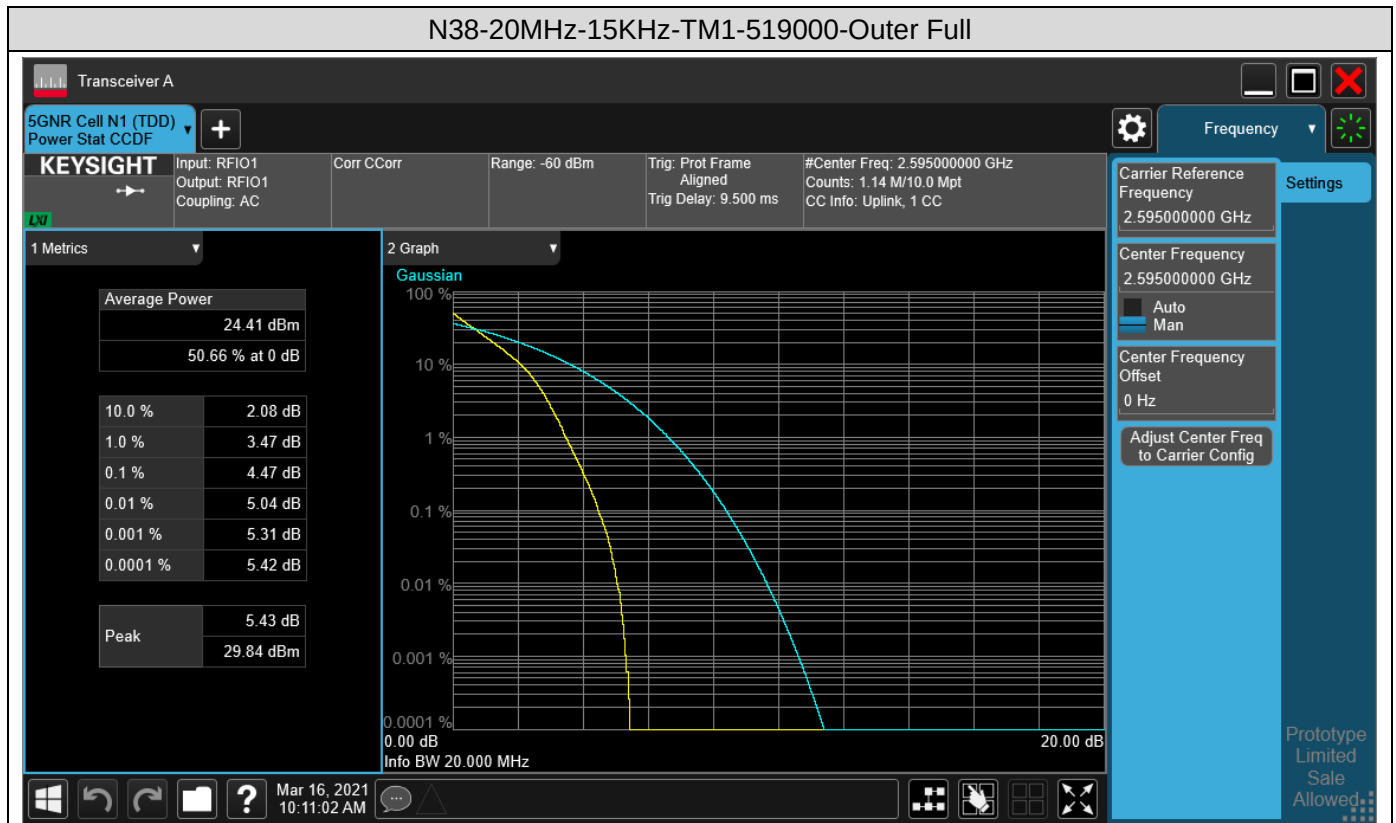
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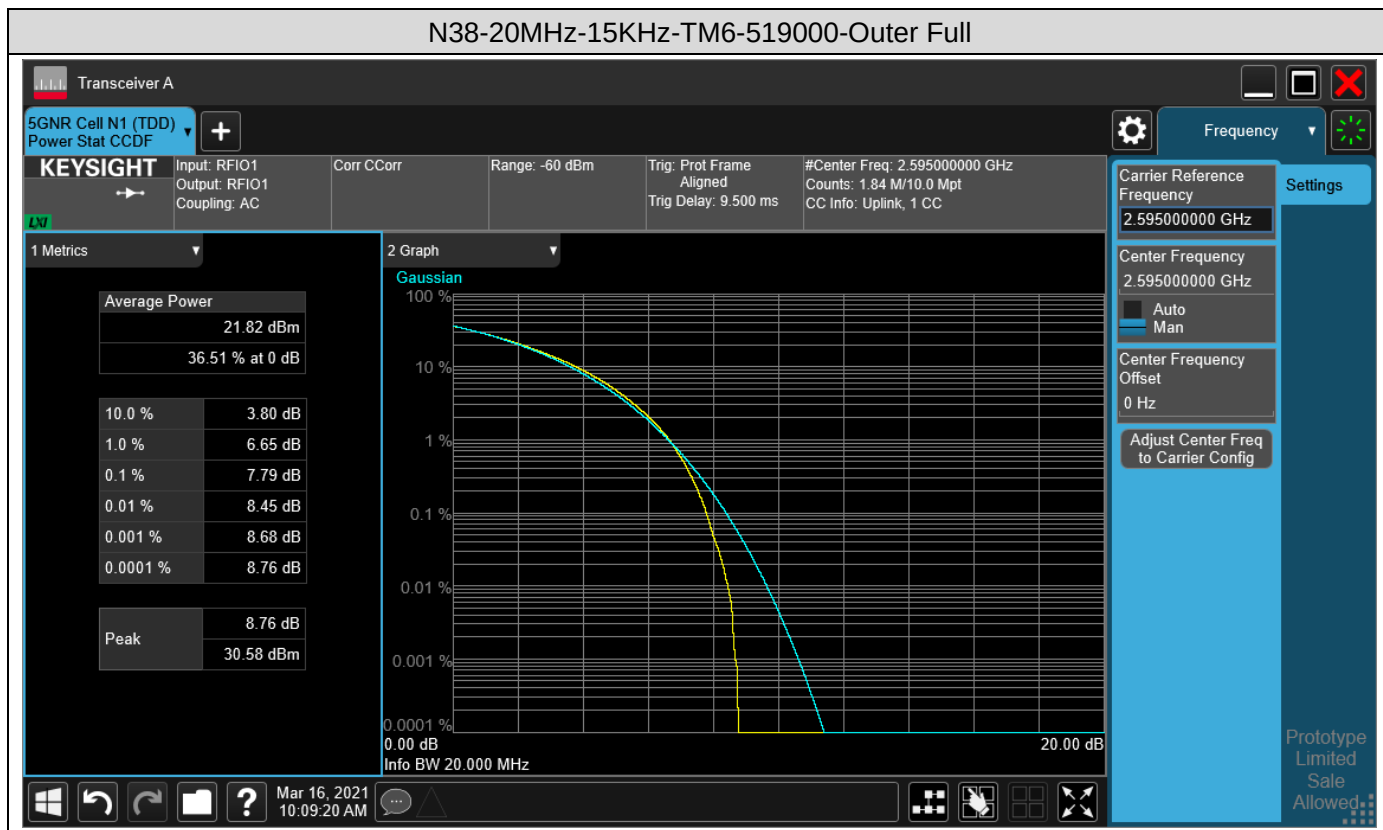
2 Peak-to-Average Ratio

2.1 Test Results

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	Result (dB)	Limit (dBm)	Verdict
N38	20MHz	30KHz	TM1	519000	Outer Full	4.47	13	PASS
N38	20MHz	30KHz	TM6	519000	Outer Full	7.79	13	PASS

2.2 Test Plots





REMARK:

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



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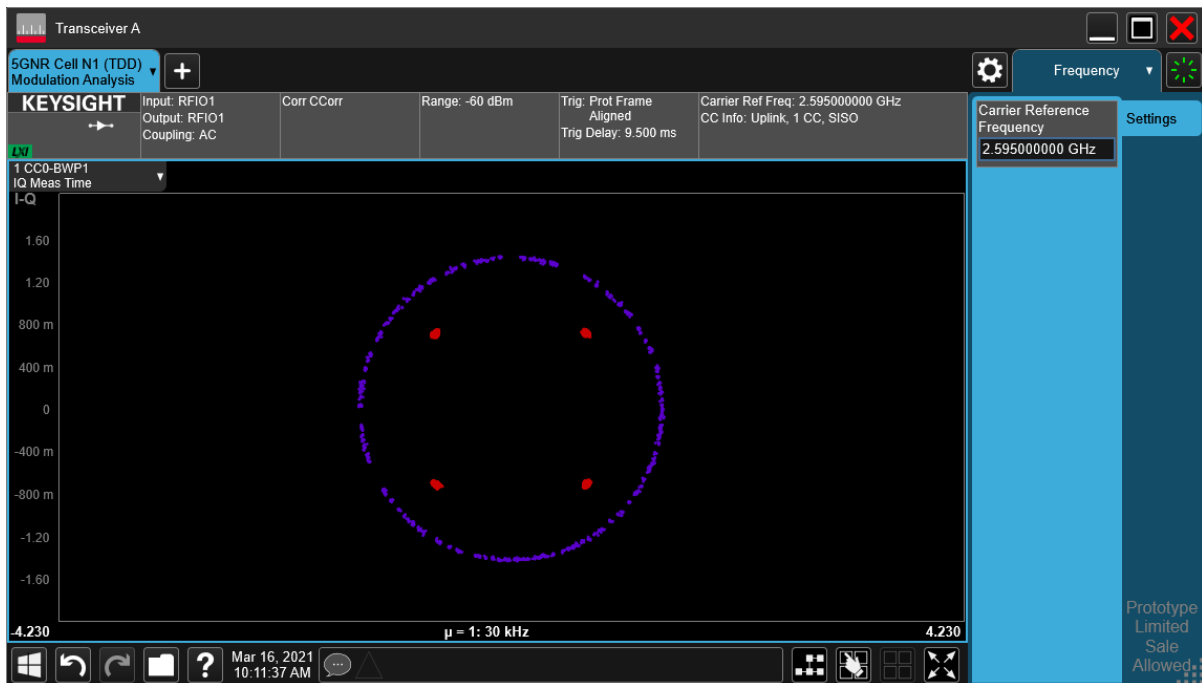
3 Modulation Characteristics

3.1 Test Plots

3.1.1 Test Band = N38

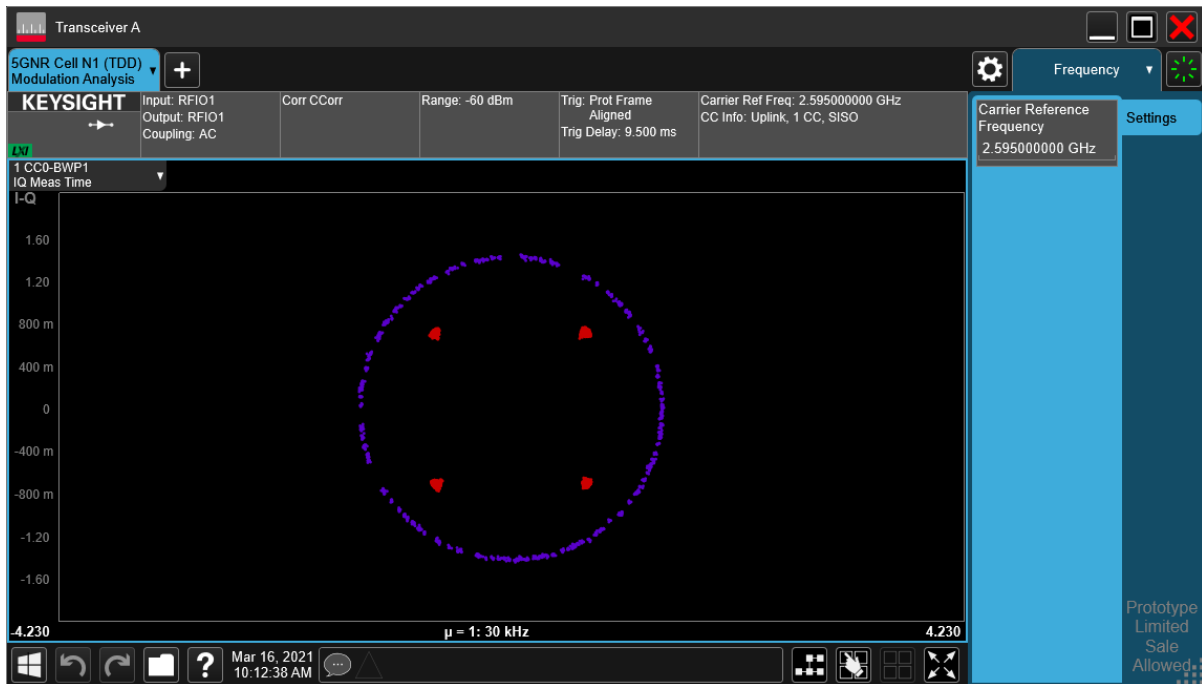
3.1.1.1 Test Mode = TM1 20MHz

3.1.1.1.1 Test Channel = MCH



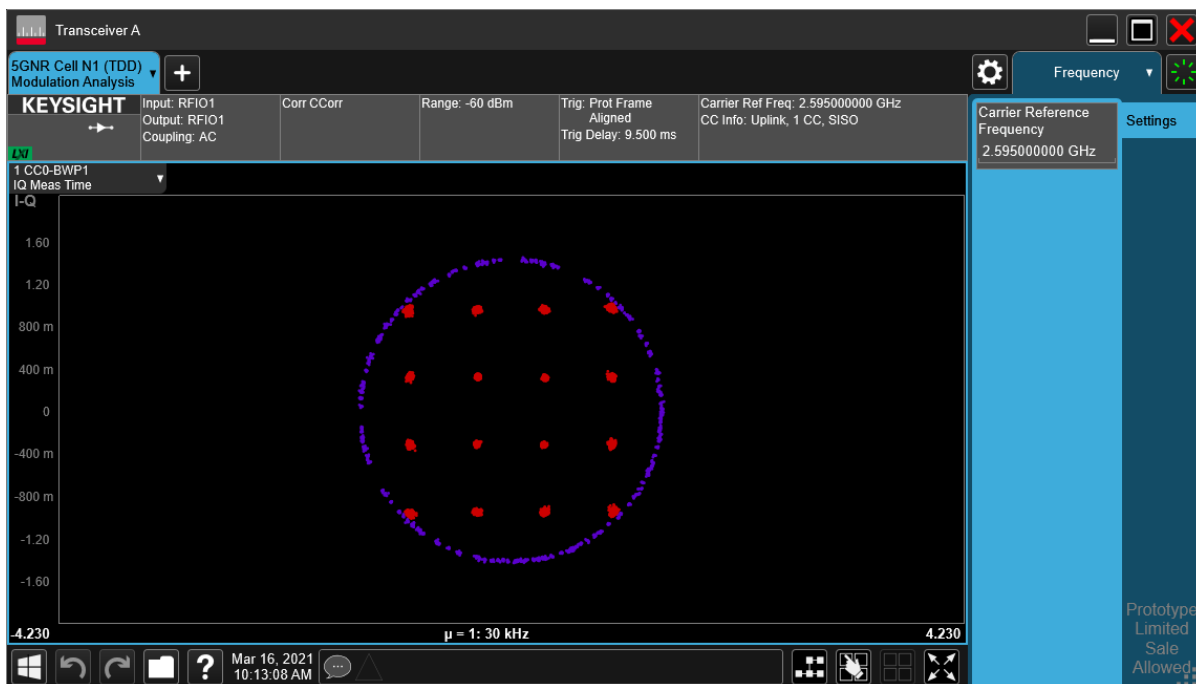
3.1.1.2 Test Mode = TM2 20MHz

3.1.1.2.1 Test Channel = MCH



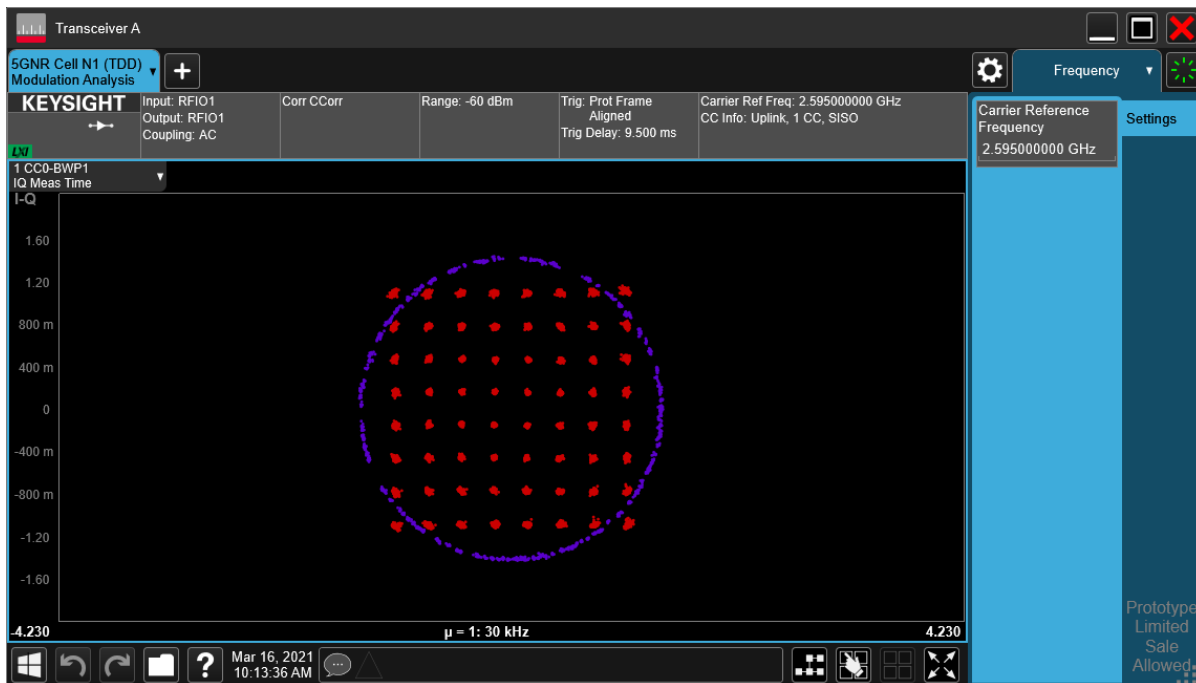
3.1.1.3 Test Mode = TM3 20MHz

3.1.1.3.1 Test Channel = MCH



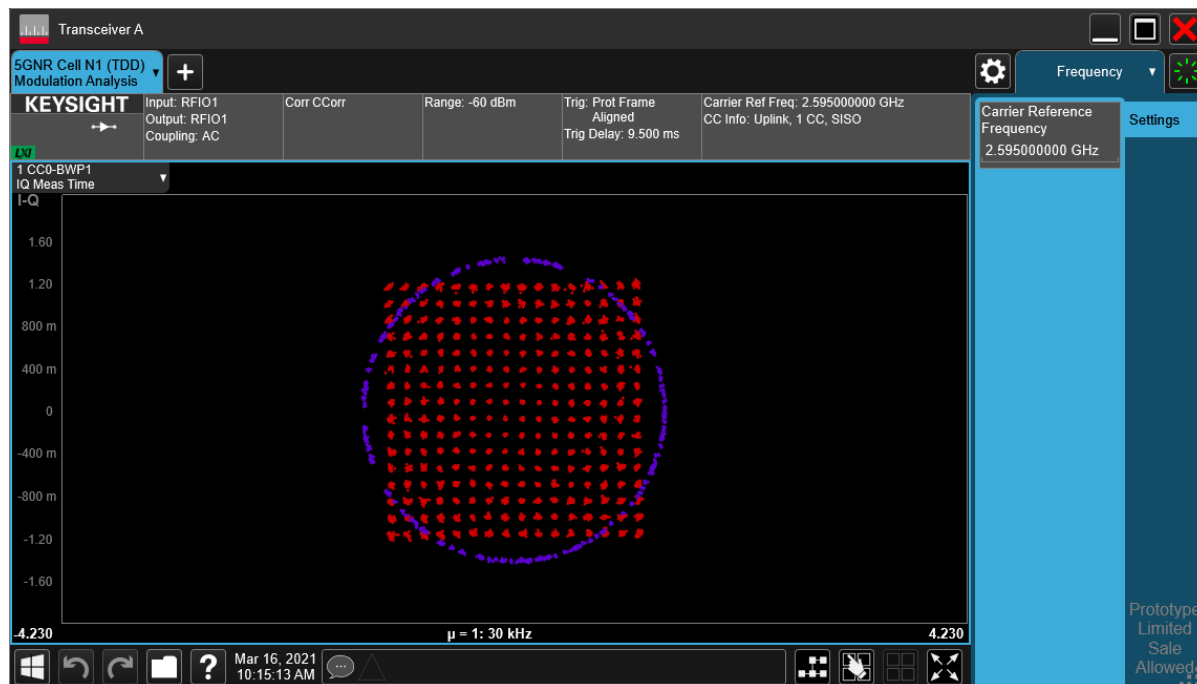
3.1.1.4 Test Mode = TM4 20MHz

3.1.1.4.1 Test Channel = MCH



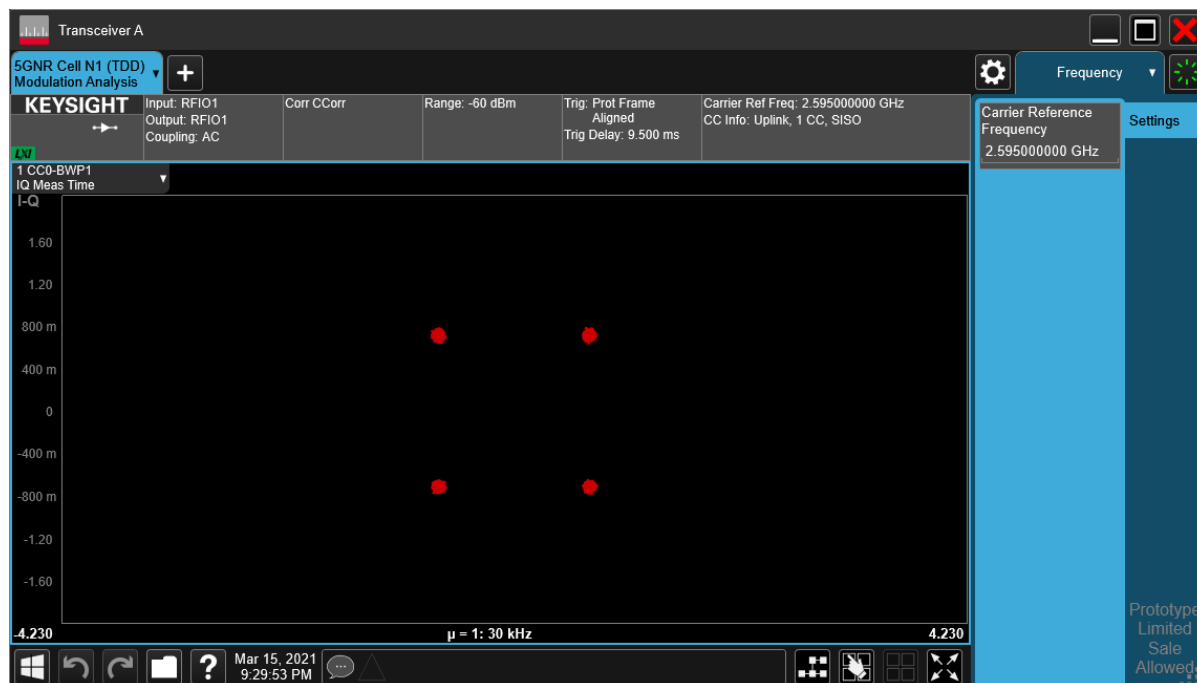
3.1.1.5 Test Mode = TM5 20MHz

3.1.1.5.1 Test Channel = MCH



3.1.1.6 Test Mode = TM6 20MHz

3.1.1.6.1 Test Channel = MCH



REMARK:

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

4 Occupied Bandwidth & 26dB Emission Bandwidth

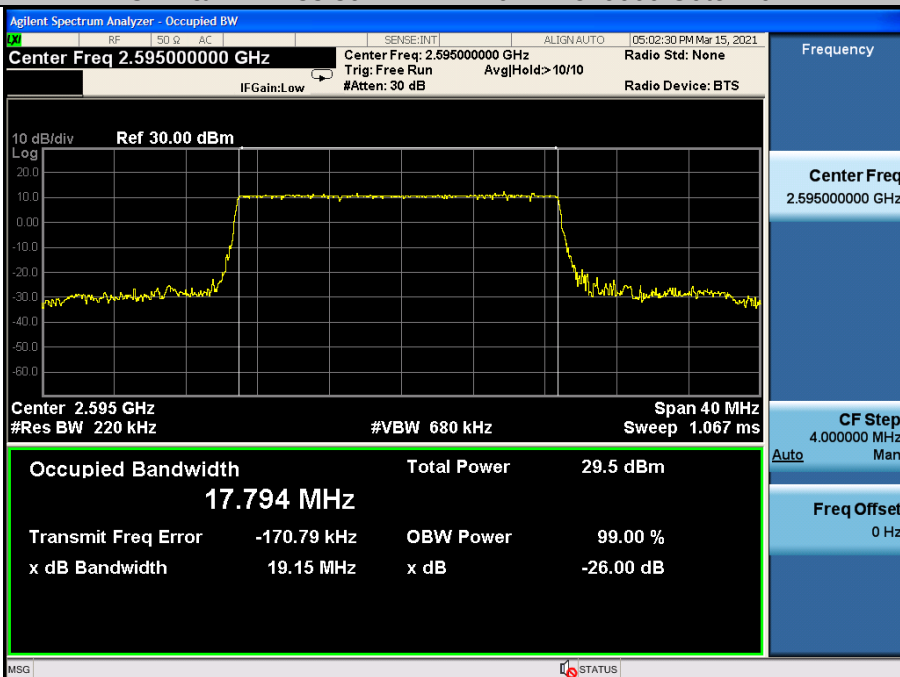
4.1 Test Results

NR Band	Bandwidth	SCS	Modulation	Channel	RB Config	OBW (MHz)	EBW (MHz)	Verdict
N38	20MHz	30KHz	TM1	519000	Outer Full	17.79	19.15	PASS
N38	20MHz	30KHz	TM2	519000	Outer Full	17.79	19.02	PASS
N38	20MHz	30KHz	TM3	519000	Outer Full	17.76	18.59	PASS
N38	20MHz	30KHz	TM4	519000	Outer Full	17.79	18.93	PASS
N38	20MHz	30KHz	TM5	519000	Outer Full	17.79	18.65	PASS
N38	20MHz	30KHz	TM6	519000	Outer Full	18.18	19.17	PASS
N38	20MHz	30KHz	TM7	519000	Outer Full	18.17	19.23	PASS
N38	20MHz	30KHz	TM8	519000	Outer Full	18.25	19.19	PASS
N38	20MHz	30KHz	TM9	519000	Outer Full	18.18	18.95	PASS

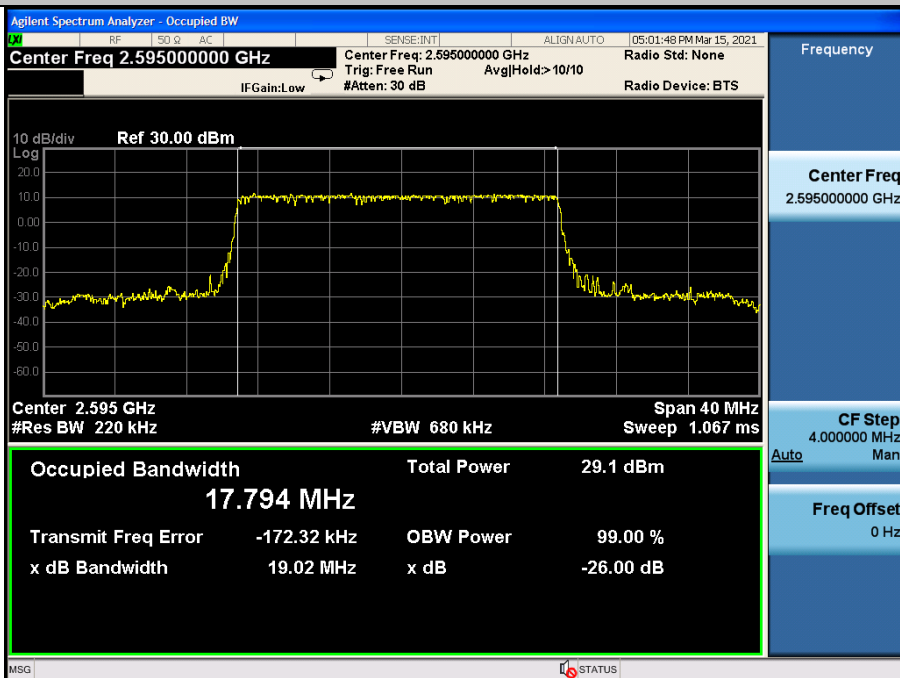
4.2 Test Plots



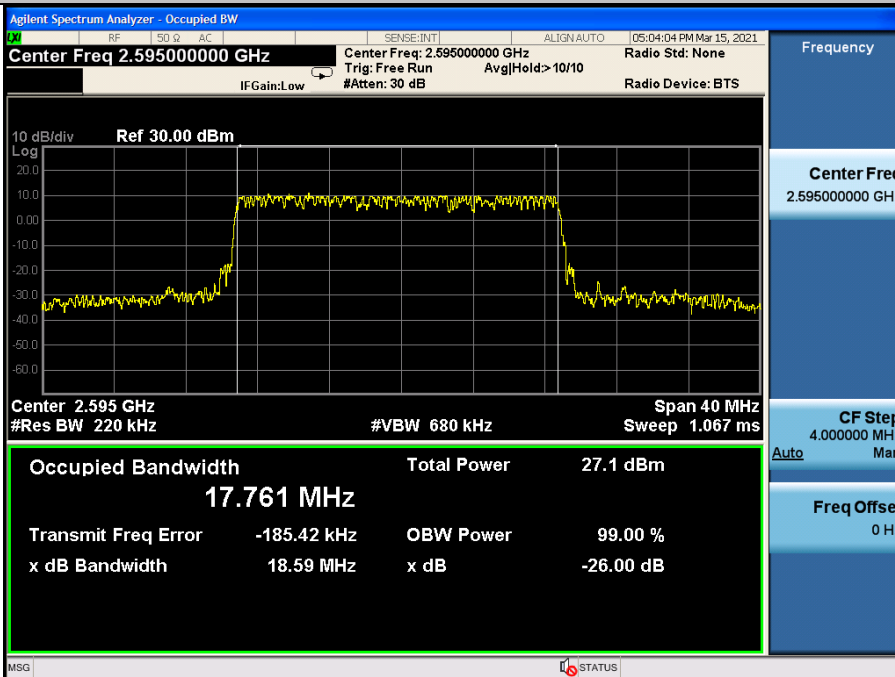
OBW&EBW N38 30KHz TM1 20MHz 519000 Outer Full



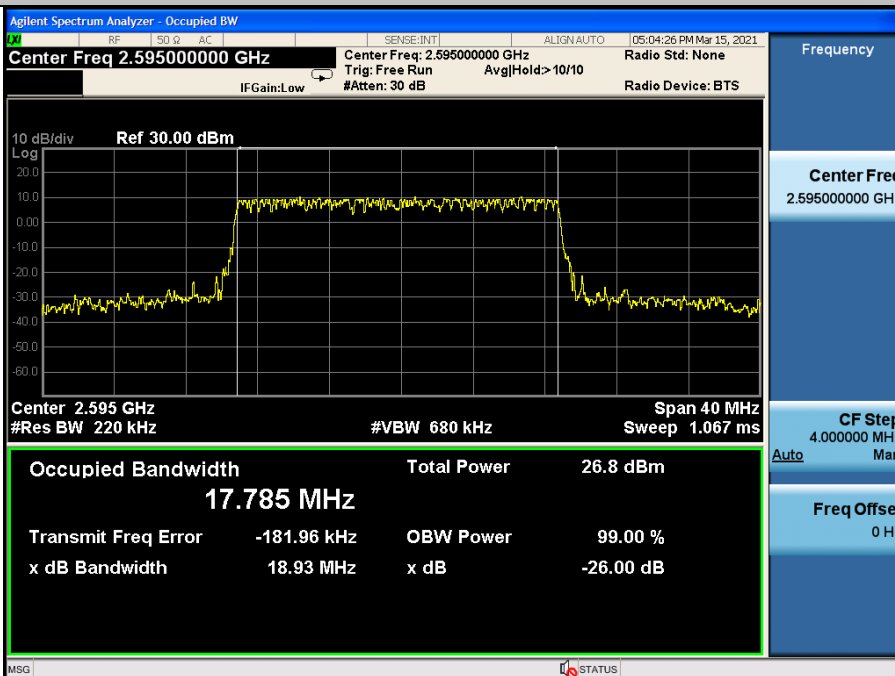
OBW&EBW N38 30KHz TM2 20MHz 519000 Outer Full



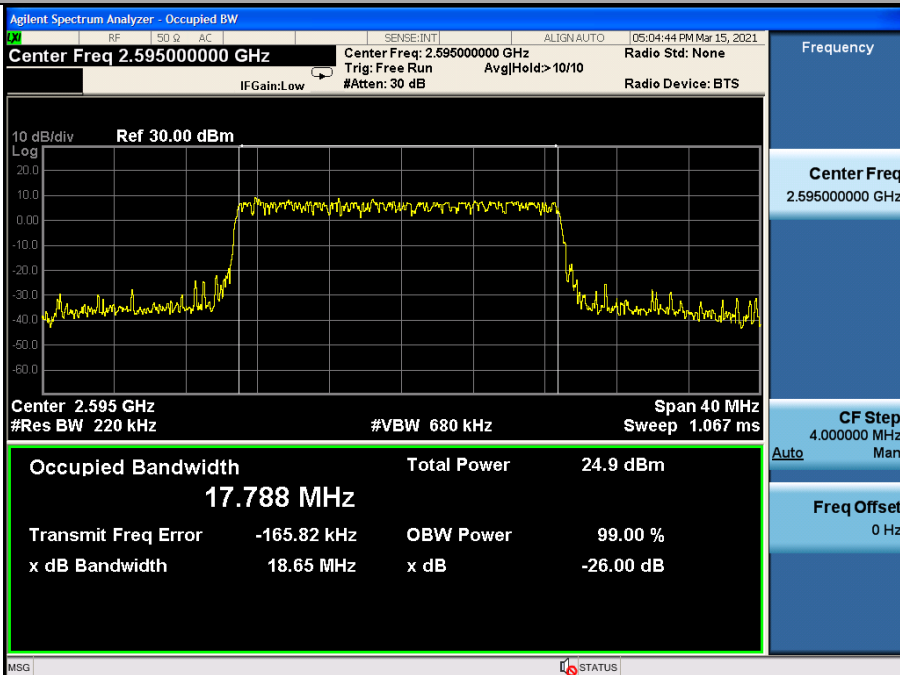
OBW&EBW N38 30KHz TM3 20MHz 519000 Outer Full



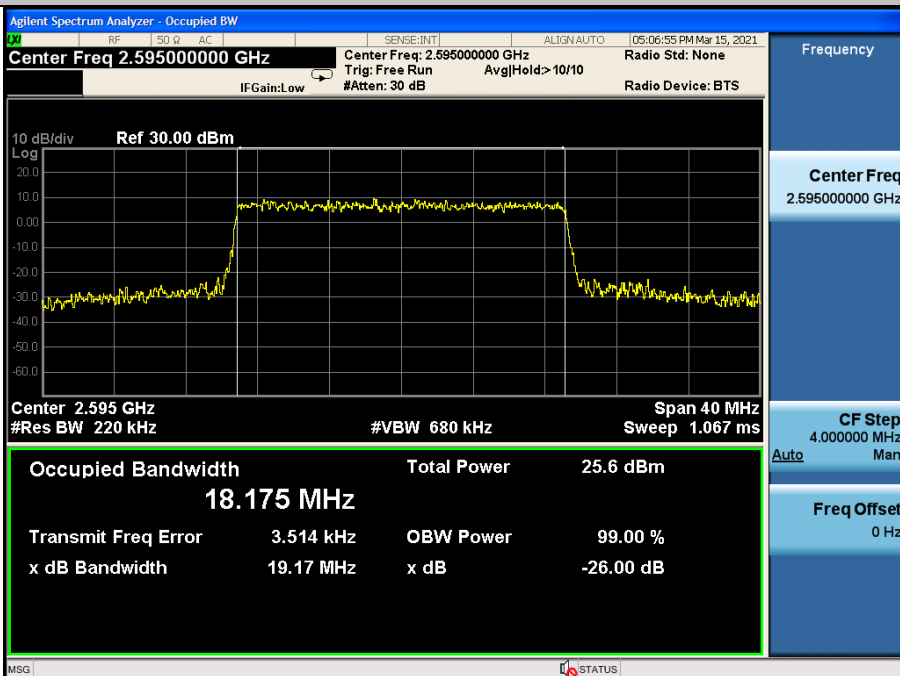
OBW&EBW N38 30KHz TM4 20MHz 519000 Outer Full



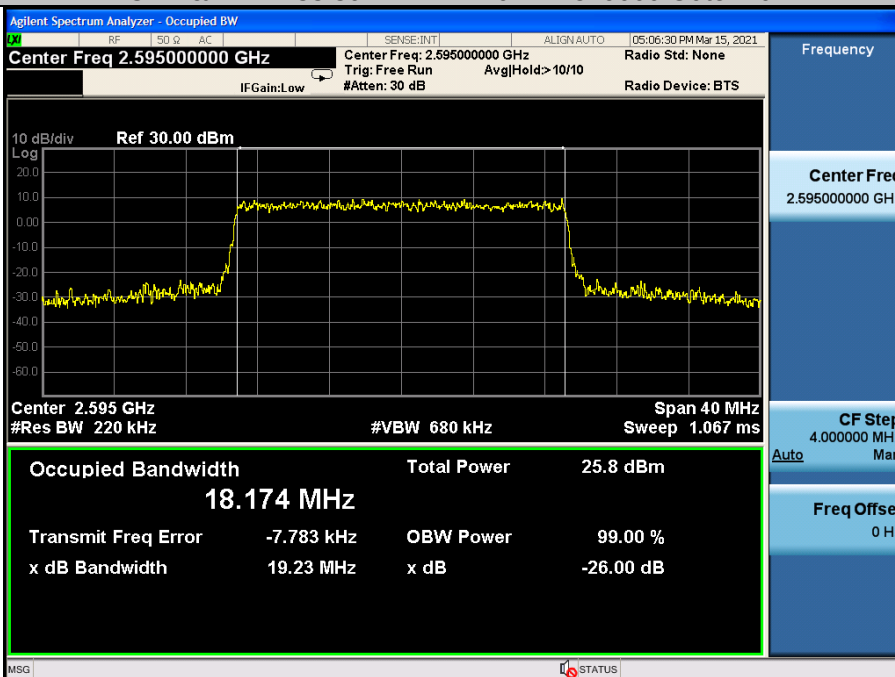
OBW&EBW N38 30KHz TM5 20MHz 519000 Outer Full



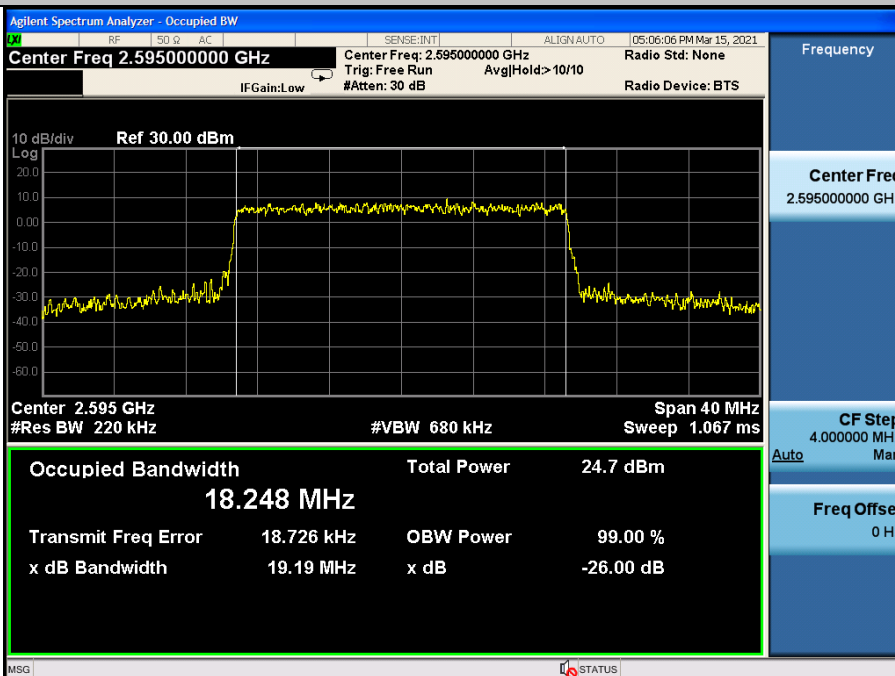
OBW&EBW N38 30KHz TM6 20MHz 519000 Outer Full

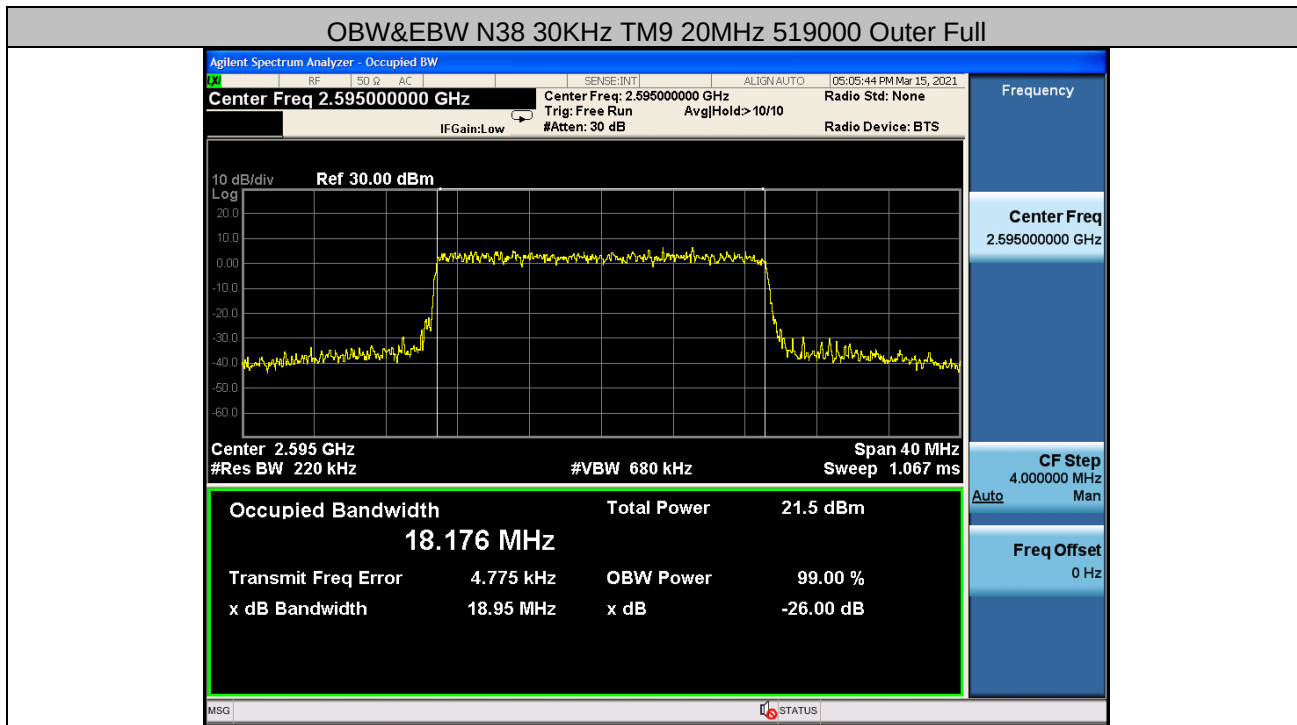


OBW&EBW N38 30KHz TM7 20MHz 519000 Outer Full



OBW&EBW N38 30KHz TM8 20MHz 519000 Outer Full





REMARK:

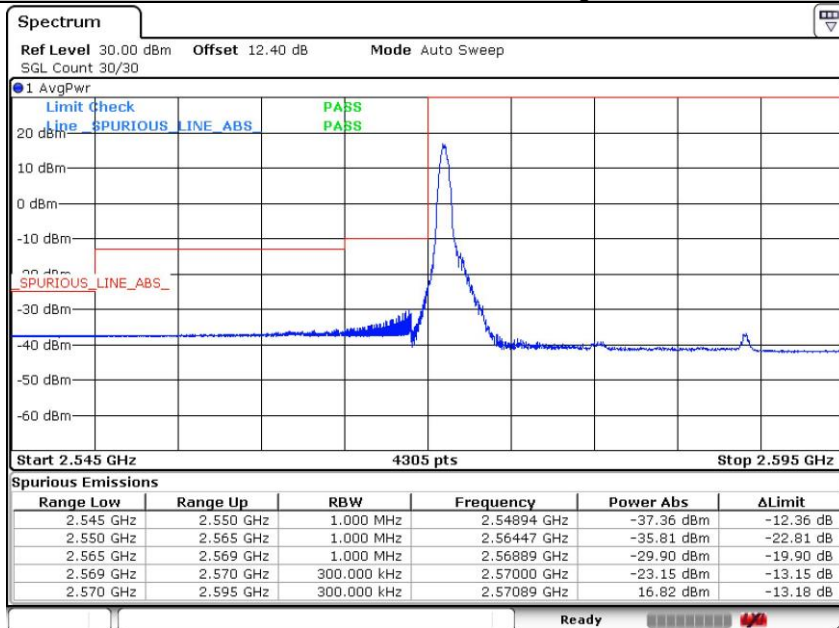
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5 Band Edges Compliance

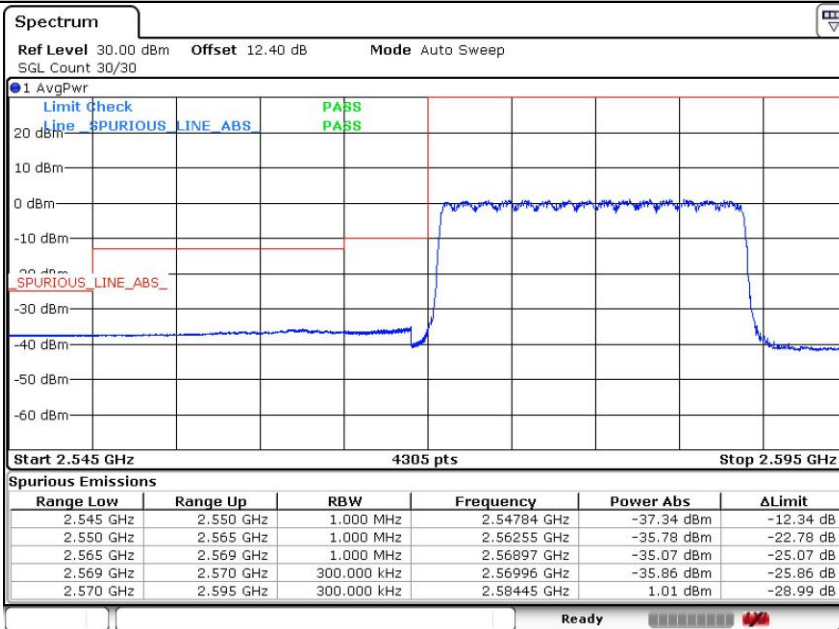
5.1 Test Plots

N38 30KHz TM1 20MHz 516000 Edge 1RB Left



Date: 4.MAR.2021 19:35:16

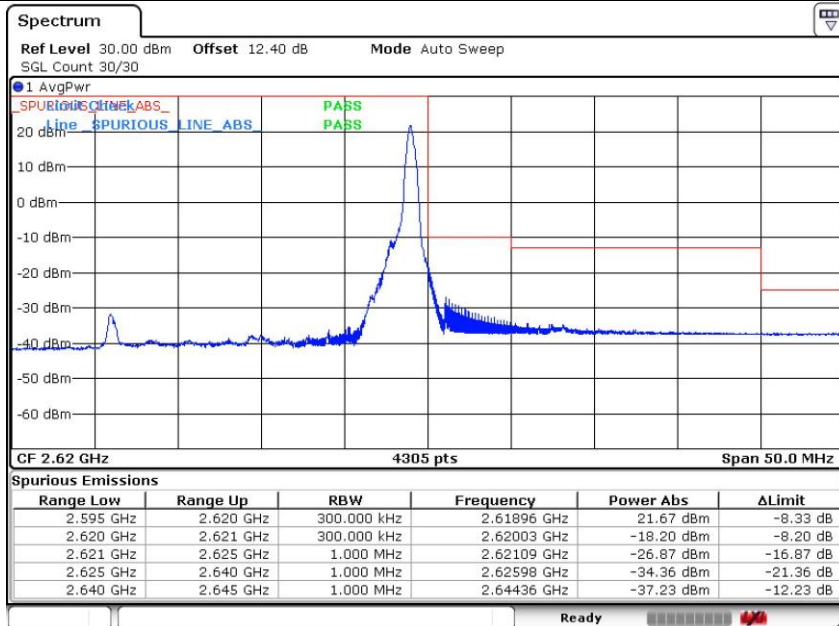
N38 30KHz TM1 20MHz 516000 Outer Full



Date: 4.MAR.2021 19:33:52

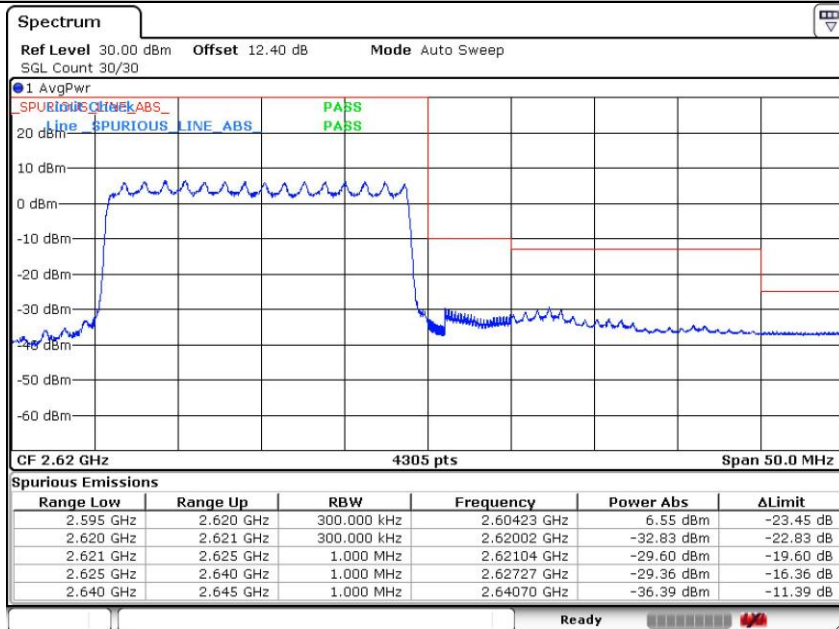


N38 30KHz TM1 20MHz 522000 Edge 1RB Right



Date: 4.MAR.2021 19:48:36

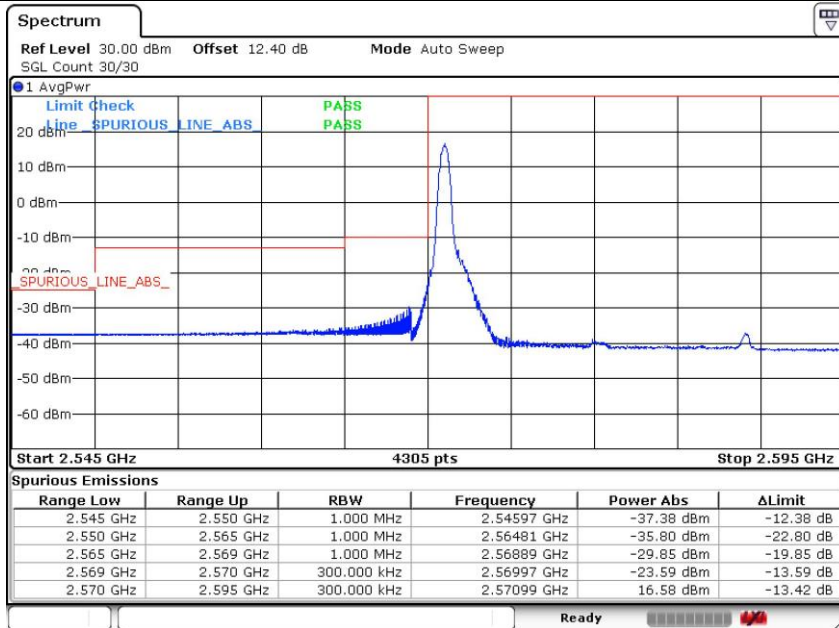
N38 30KHz TM1 20MHz 522000 Outer Full



Date: 4.MAR.2021 19:49:11

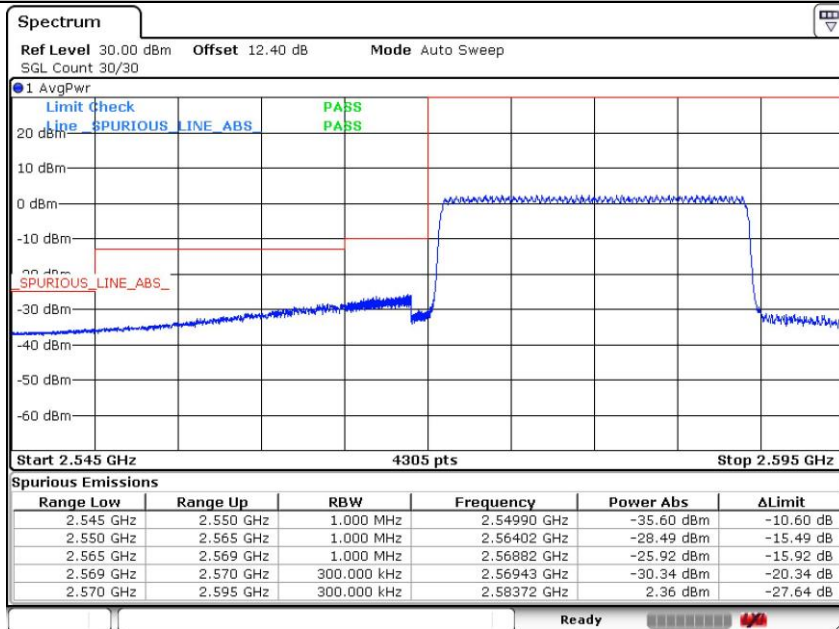


N38 30KHz TM6 20MHz 516000 Edge 1RB Left



Date: 4.MAR.2021 19:35:57

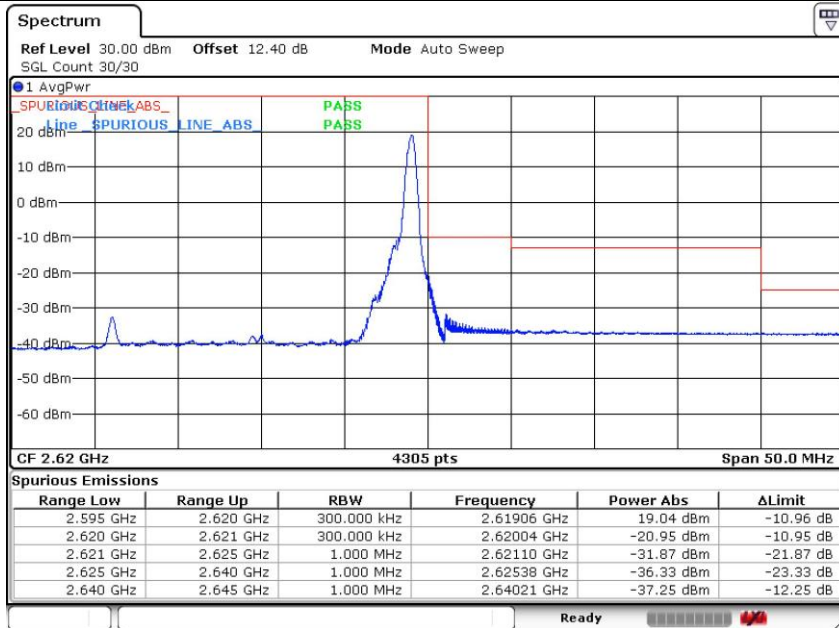
N38 30KHz TM6 20MHz 516000 Outer Full



Date: 4.MAR.2021 19:43:42

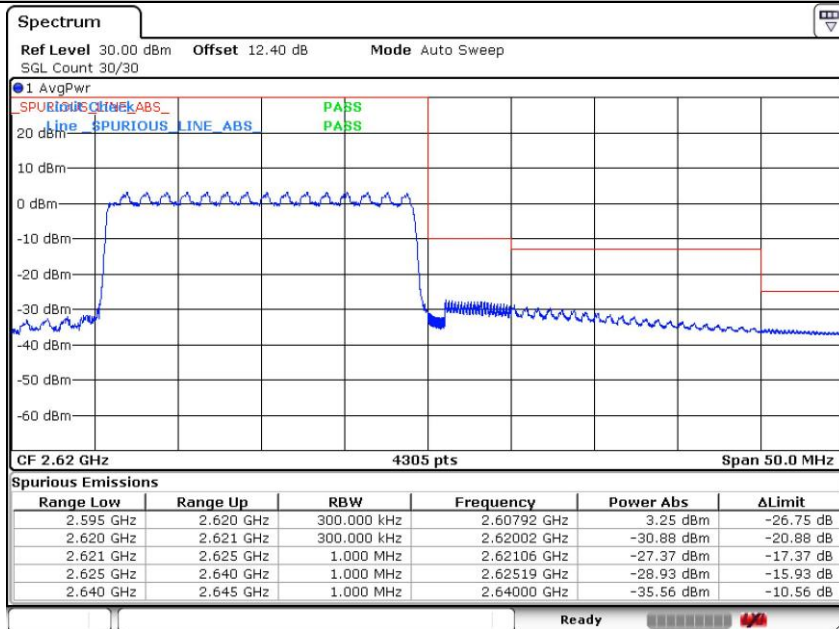


N38 30KHz TM6 20MHz 522000 Edge 1RB Right



Date: 4.MAR.2021 19:47:35

N38 30KHz TM6 20MHz 522000 Outer Full



Date: 4.MAR.2021 19:46:51

REMARK:

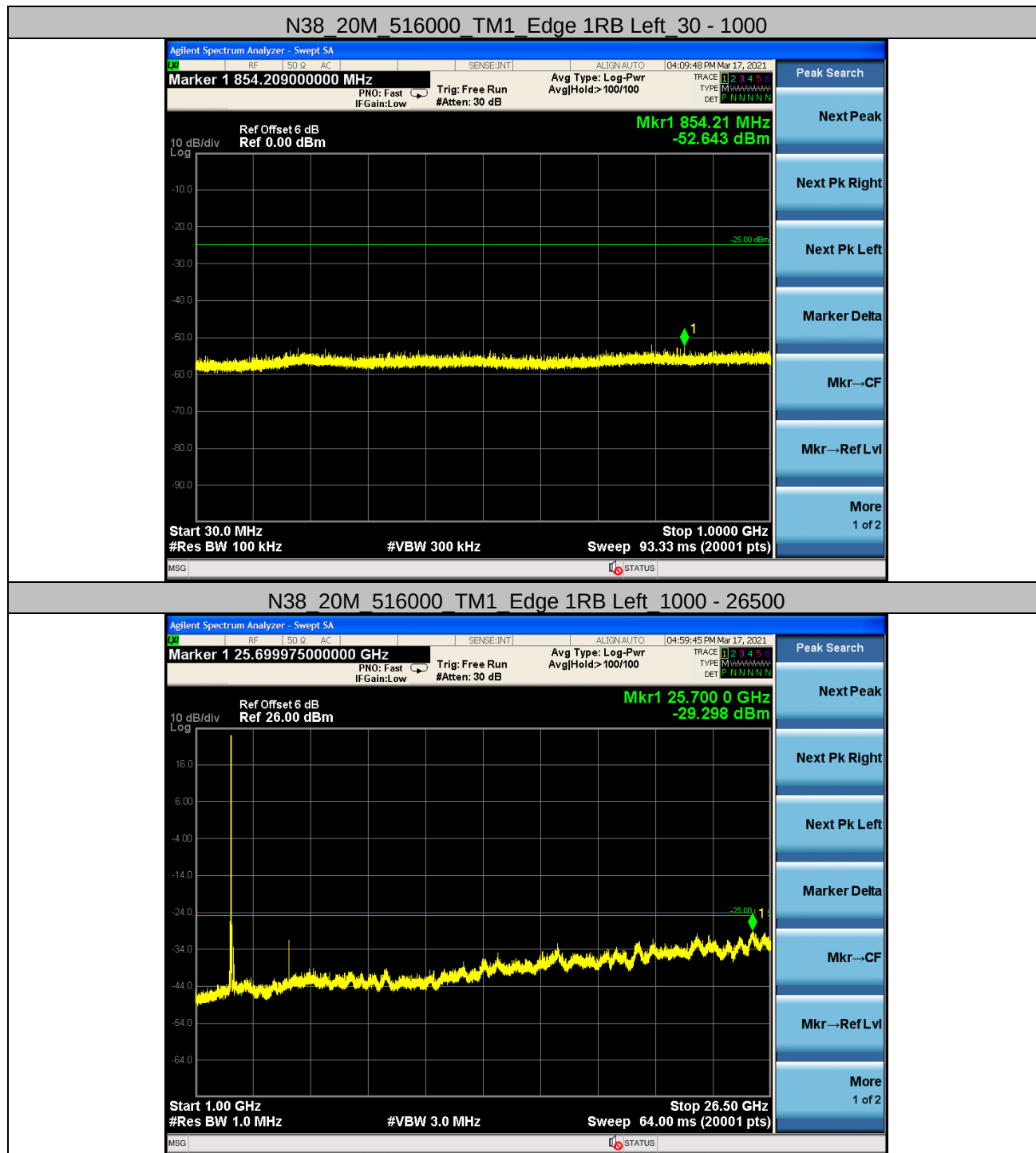
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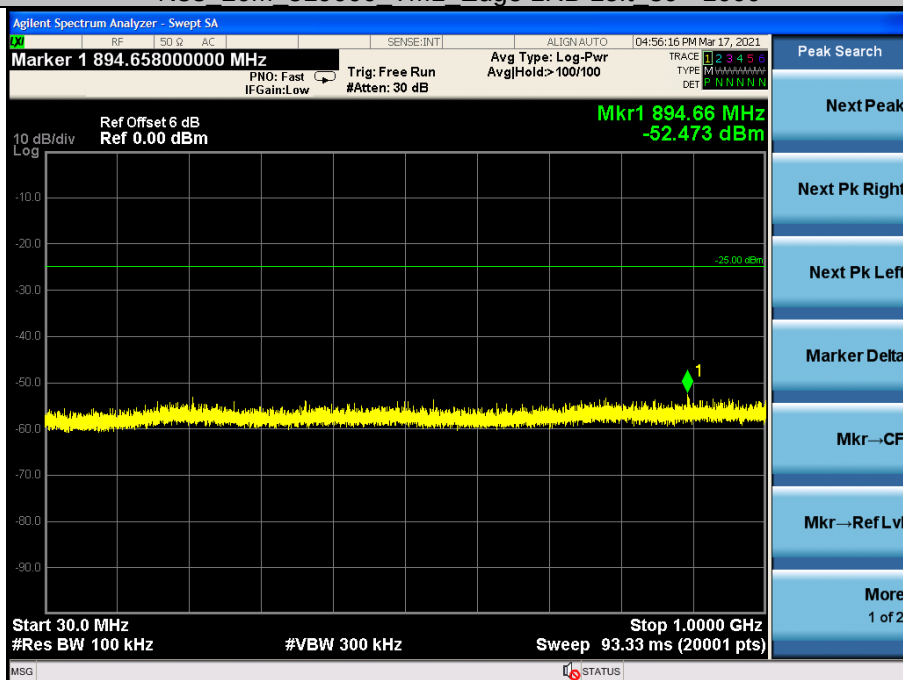
6 Spurious Emission at Antenna Terminal

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 $< RBW/2$ so that narrow Band signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

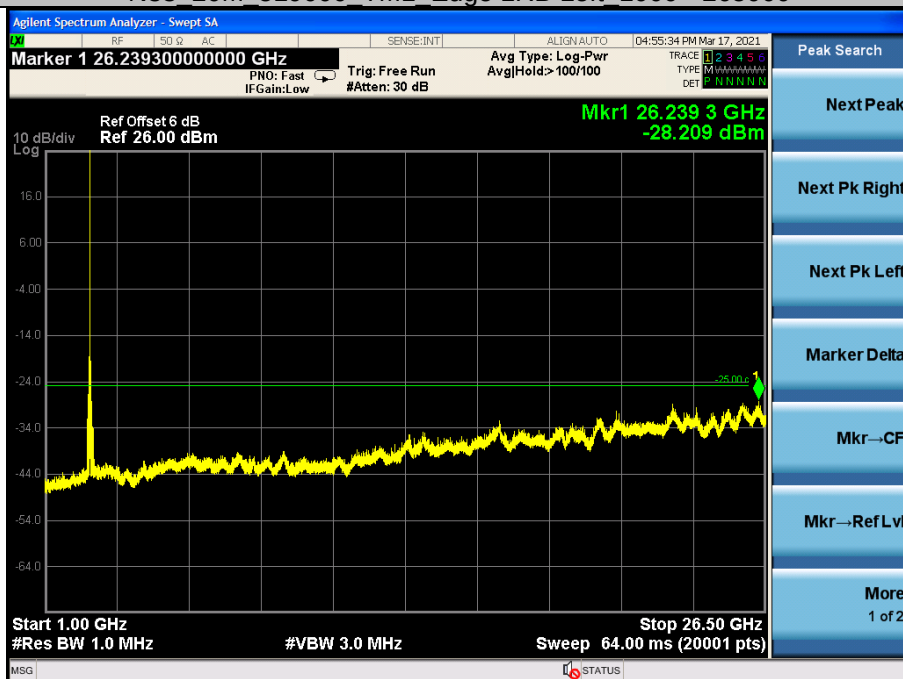
6.1 Test Plots



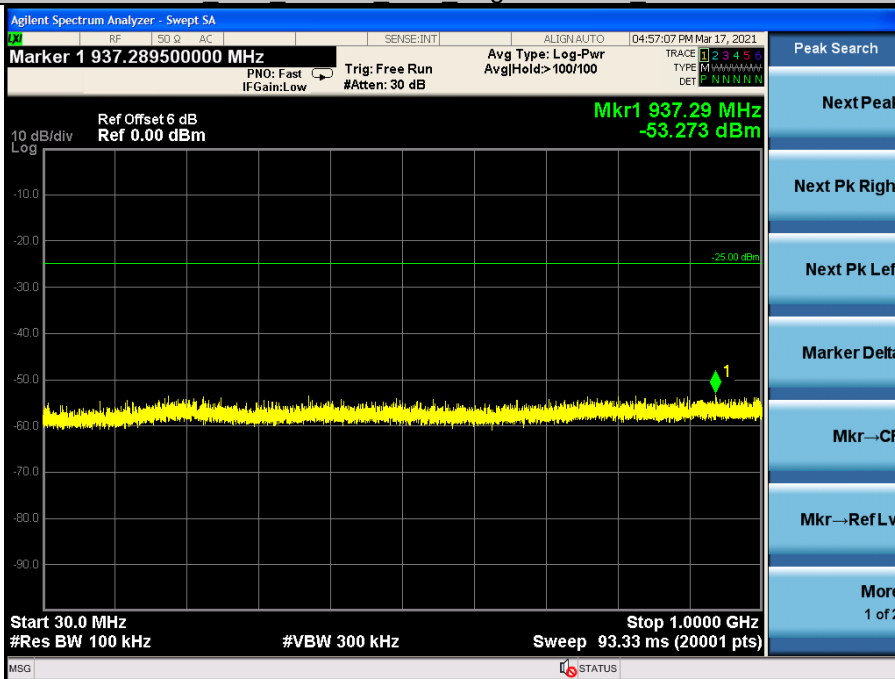
N38 20M 519000 TM1 Edge 1RB Left 30 - 1000



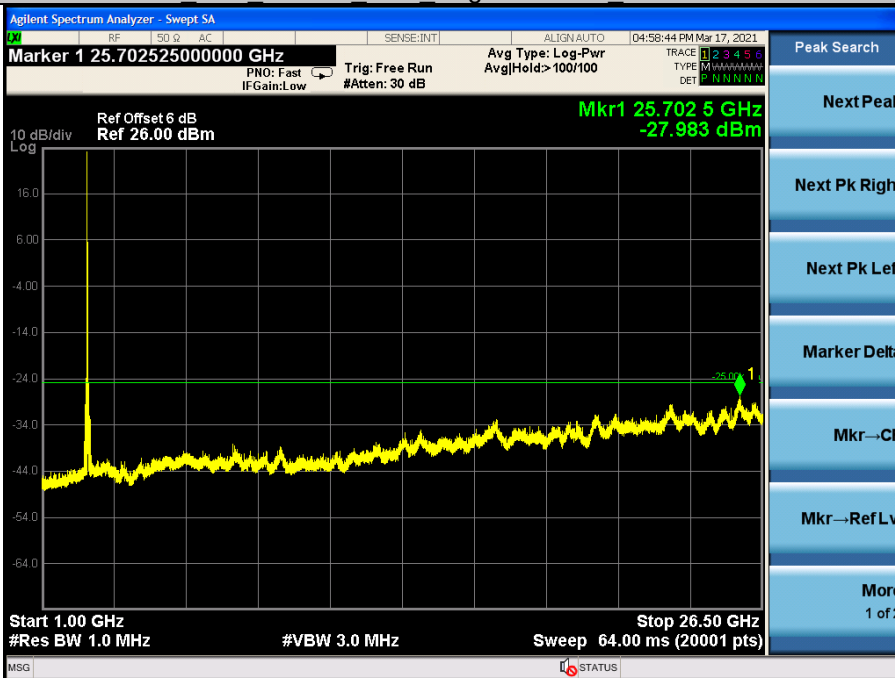
N38 20M 519000 TM1 Edge 1RB Left 1000 - 265000



N38 20M 522000 TM1 Edge 1RB Left 30 - 1000



N38 20M 522000 TM1 Edge 1RB Left 1000 - 26500



REMARK:

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





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
N38	30KHz	20MHz	TM1	516000	Outer Full	VL	NT	-12.23	-0.00474	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	NT	12.28	0.00476	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VH	NT	3.50	0.00136	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VL	NT	9.07	0.00350	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	NT	5.77	0.00222	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VH	NT	-1.62	-0.00062	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VL	NT	-10.50	-0.00402	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	NT	6.83	0.00262	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VH	NT	4.52	0.00173	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VL	NT	13.46	0.00522	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	NT	-0.25	-0.00010	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VH	NT	12.65	0.00490	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VL	NT	1.29	0.00050	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	NT	-10.16	-0.00392	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VH	NT	8.70	0.00335	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VL	NT	-6.55	-0.00251	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	NT	1.81	0.00069	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VH	NT	7.00	0.00268	±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
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-30	9.64	0.00374	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-20	3.68	0.00143	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	-10	-9.61	-0.00372	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	0	-6.93	-0.00269	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	10	-6.71	-0.00260	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	20	-0.02	-0.00001	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	30	-9.56	-0.00371	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	40	-11.49	-0.00445	±2.5	PASS
N38	30KHz	20MHz	TM1	516000	Outer Full	VN	50	-4.55	-0.00176	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-30	-6.27	-0.00242	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-20	7.72	0.00297	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	-10	9.57	0.00369	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	0	-12.28	-0.00473	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	10	-5.00	-0.00193	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	20	-2.78	-0.00107	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	30	13.65	0.00526	±2.5	PASS



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N38	30KHz	20MHz	TM1	519000	Outer Full	VN	40	5.95	0.00229	±2.5	PASS
N38	30KHz	20MHz	TM1	519000	Outer Full	VN	50	9.68	0.00373	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-30	-4.33	-0.00166	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-20	0.50	0.00019	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	-10	-6.10	-0.00234	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	0	-4.76	-0.00182	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	10	3.23	0.00124	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	20	10.16	0.00389	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	30	1.48	0.00057	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	40	-5.38	-0.00206	±2.5	PASS
N38	30KHz	20MHz	TM1	522000	Outer Full	VN	50	7.85	0.00301	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-30	14.65	0.00568	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-20	-11.17	-0.00433	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	-10	-7.40	-0.00287	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	0	-8.72	-0.00338	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	10	-8.93	-0.00346	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	20	-7.77	-0.00301	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	30	-2.96	-0.00115	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	40	14.57	0.00565	±2.5	PASS
N38	30KHz	20MHz	TM6	516000	Outer Full	VN	50	-2.27	-0.00088	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-30	-9.31	-0.00359	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-20	-9.10	-0.00351	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	-10	4.74	0.00183	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	0	-4.22	-0.00163	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	10	1.64	0.00063	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	20	11.84	0.00456	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	30	7.55	0.00291	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	40	14.43	0.00556	±2.5	PASS
N38	30KHz	20MHz	TM6	519000	Outer Full	VN	50	-5.00	-0.00193	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-30	9.86	0.00378	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-20	-0.13	-0.00005	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	-10	4.24	0.00162	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	0	3.79	0.00145	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	10	3.55	0.00136	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	20	-3.51	-0.00134	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	30	5.45	0.00209	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	40	-8.67	-0.00332	±2.5	PASS
N38	30KHz	20MHz	TM6	522000	Outer Full	VN	50	1.45	0.00056	±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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