

Appendix for KSCR2305000877AT

1. Out of band rejection

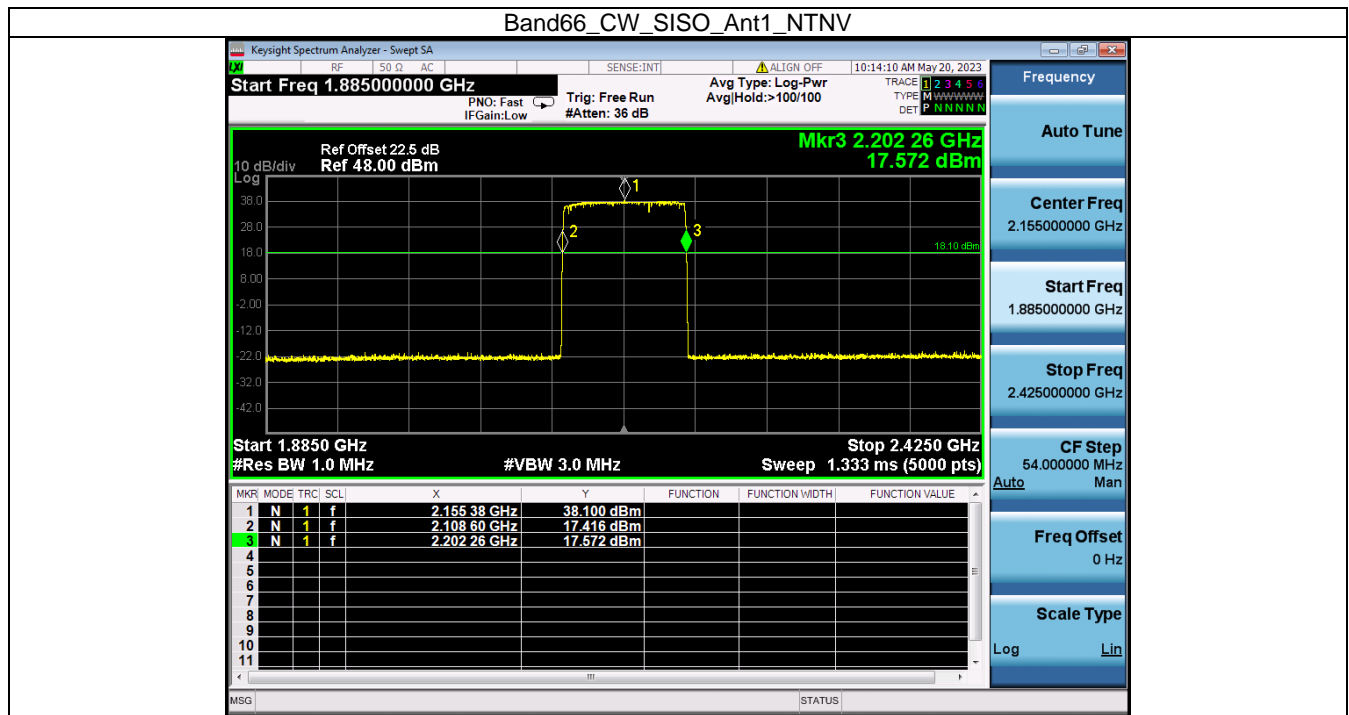
1.1 Test Result

For Band 66

Band: 66 / NTN							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	1885 - 2425	SISO	1	2155.38	2108.60	2202.26	Pass

1.1.2 Test Graph

For Band 666



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2. Input/output power and amplifier/booster gain

2.1. Test Result

For Band66_EIRP

Band: 66 / NTV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		EIRP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.1	2155.38	SISO	1	30.646	-6.45	42.646	<=62.15	37.096	Pass
	3.1	2155.38	SISO	1	30.647	-4.29	42.647	<=62.15	/	Pass
GMSK	0.1	2155.38	SISO	1	37.268	0.17	49.268	<=62.15	37.398	Pass
	3.1	2155.38	SISO	1	37.285	3.13	49.285	<=62.15	/	Pass

Band: 66 / NTV						
Signal			Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	SISO		
AWGN	0.1	2155.38	37.19	49.19	/	Pass
	3.1	2155.38	37.27	49.27	/	Pass
GMSK	0.1	2155.38	37.36	49.36	/	Pass
	3.1	2155.38	37.38	49.38	/	Pass

For N66_EIRP

N66 / NTV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		EIRP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.1	2155	SISO	1	19.719	-17.31	31.719	<=62.15	37.029	Pass
	3.1	2155	SISO	1	19.936	-14.46	31.936	<=62.15	/	Pass

N66 / NTV						
Signal			Conducted Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	SISO		
AWGN	0.1	2155	37.11	49.11	/	Pass
	3.1	2155	37.23	49.23	/	Pass



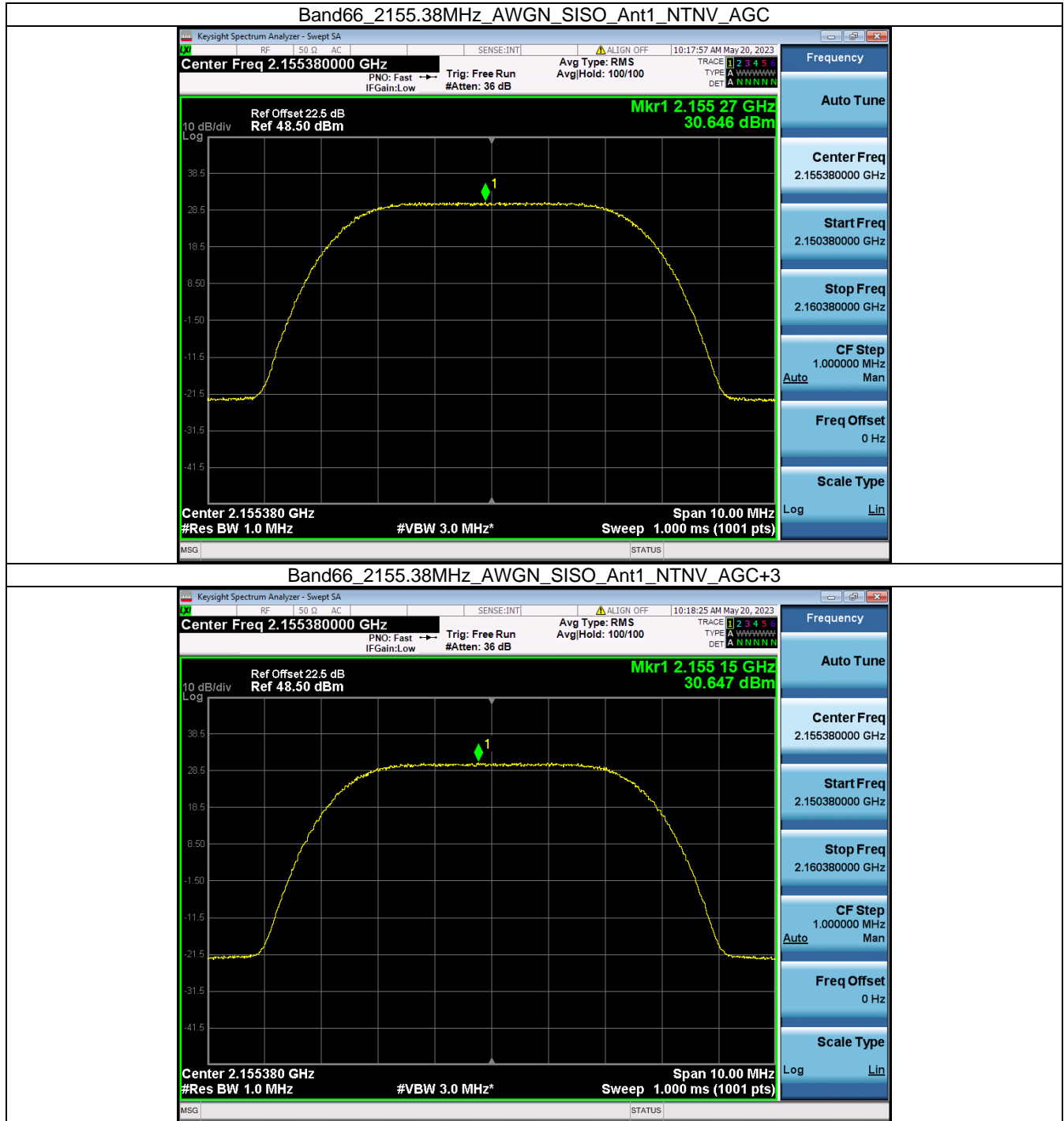
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2.1.1 Test Graph

For Band66

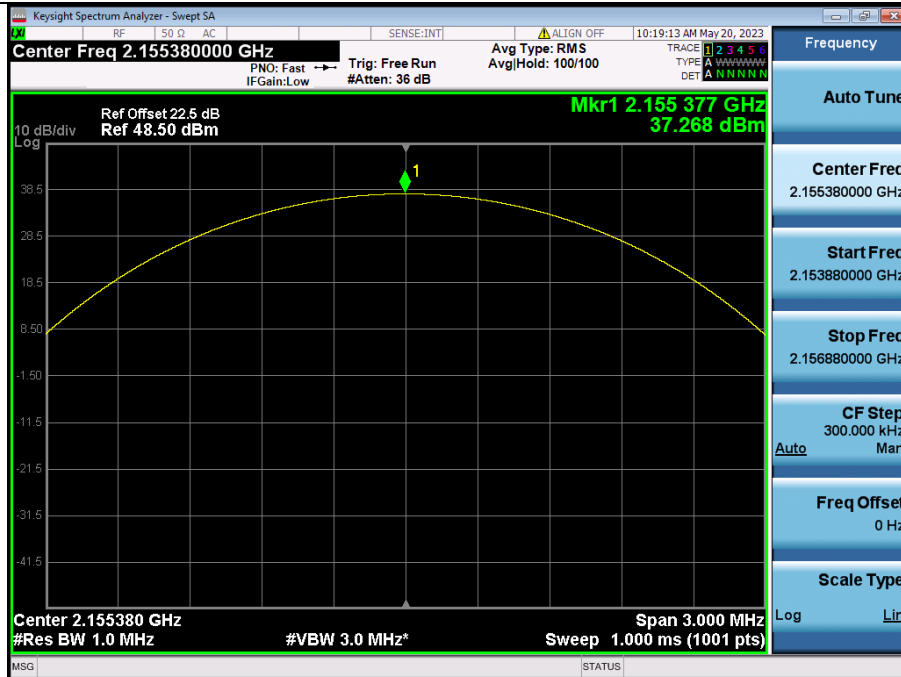


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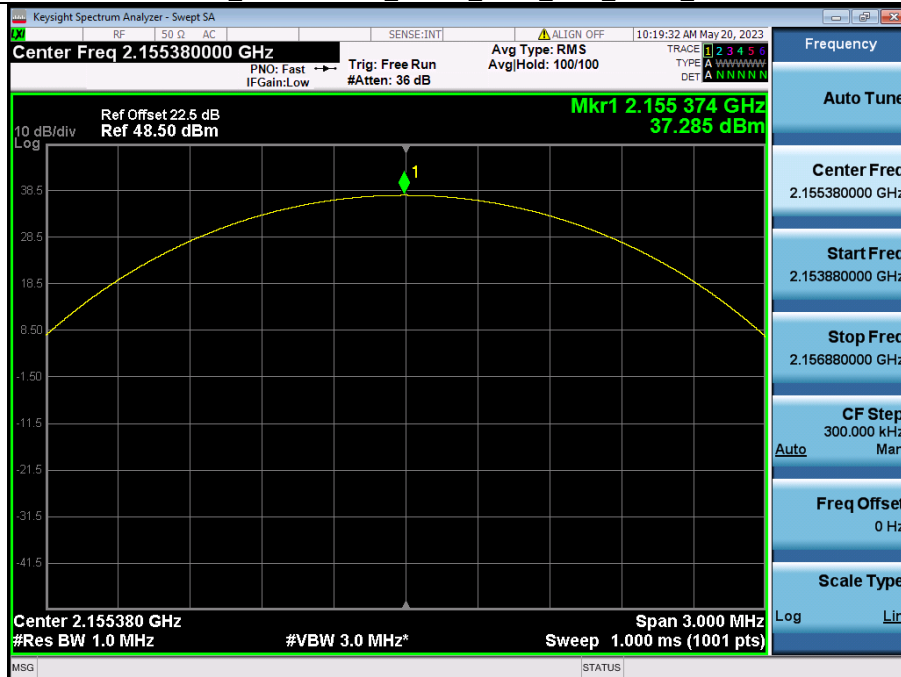
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Band66_2155.38MHz_GMSK_SISO_Ant1_NTNV_AGC



Band66_2155.38MHz_GMSK_SISO_Ant1_NTNV_AGC+3

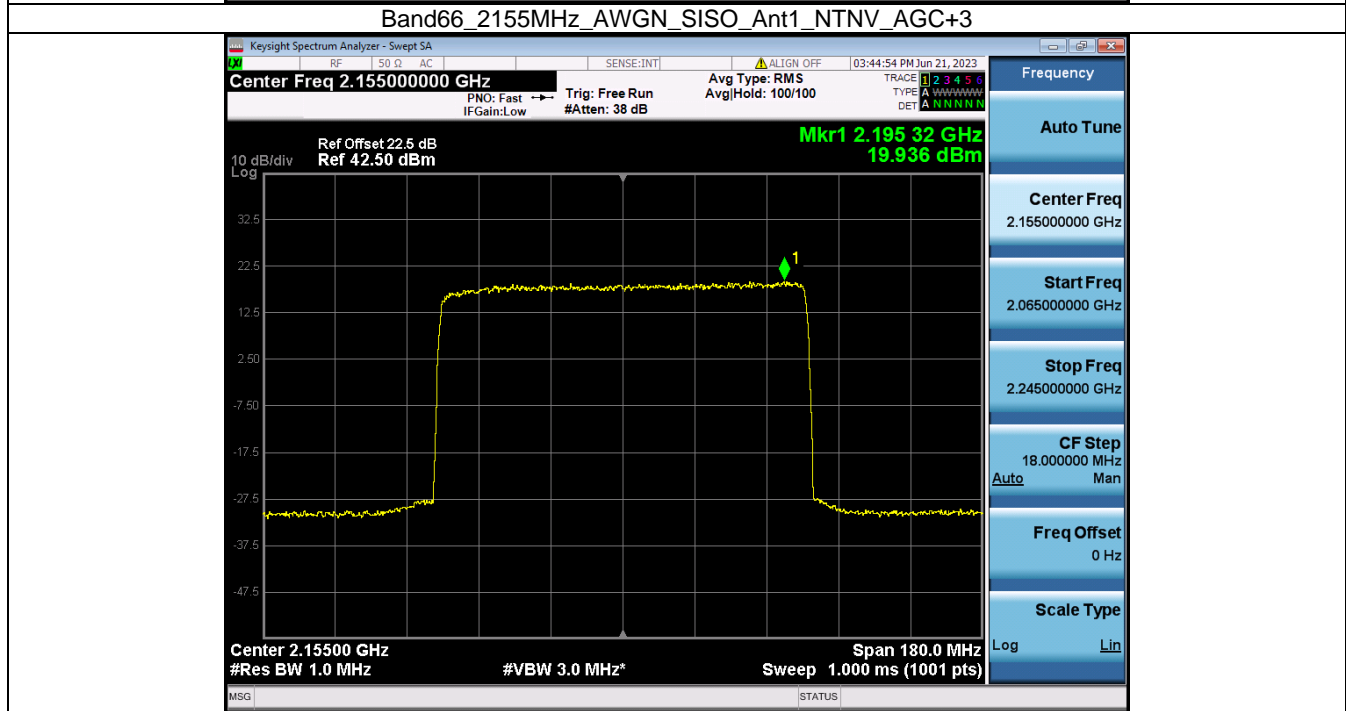
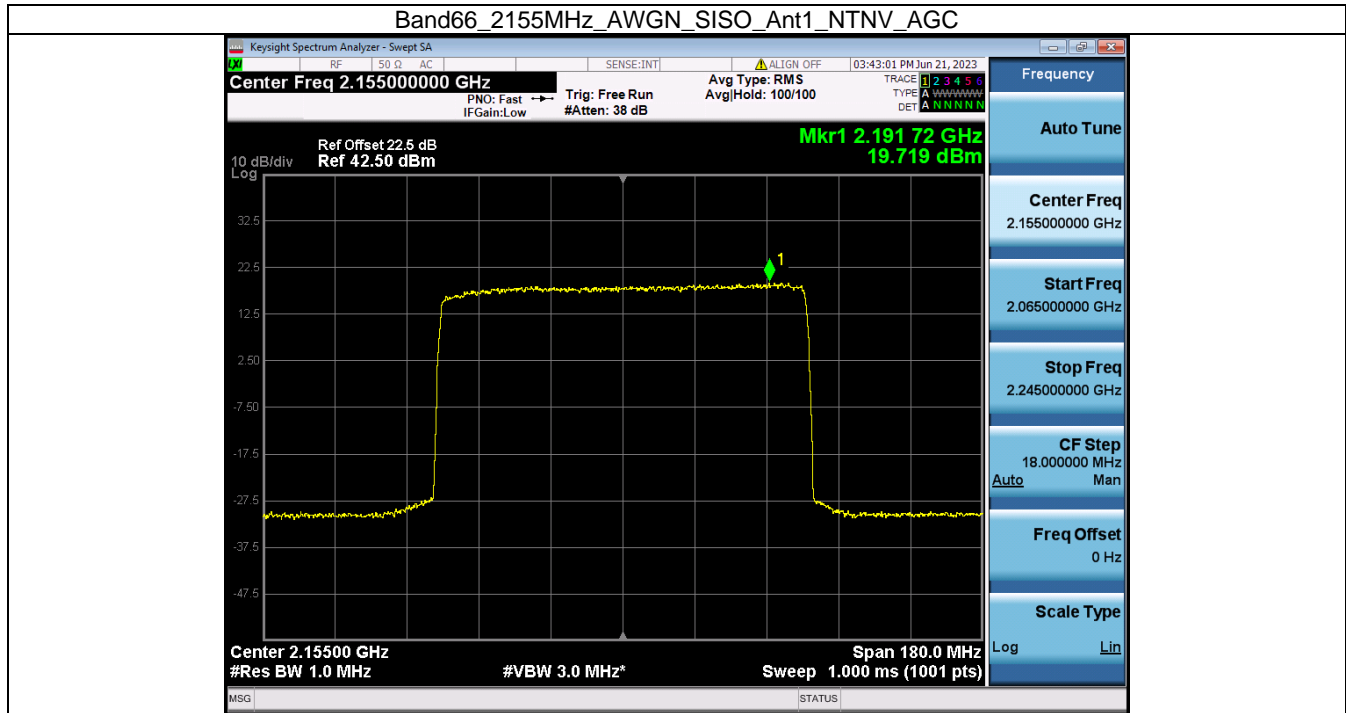


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For N66



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3. Radiated Spurious Emissions

3.1. Test Result

For Band 66

AWGN_Low channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
97.704	Horizontal	-62.88	-13	-49.88	pass
470.578	Horizontal	-54.66	-13	-41.66	pass
809.642	Horizontal	-52.18	-13	-39.18	pass
2012.150	Horizontal	-48.72	-13	-35.72	pass
7564.940	Horizontal	-49.84	-13	-36.84	pass
11376.980	Horizontal	-37.69	-13	-24.69	pass
106.990	Vertical	-68.37	-13	-55.37	pass
356.835	Vertical	-59.52	-13	-46.52	pass
869.159	Vertical	-67.53	-13	-54.53	pass
2081.760	Vertical	-47.15	-13	-34.15	pass
8037.010	Vertical	-50.38	-13	-37.38	pass
11511.350	Vertical	-38.66	-13	-25.66	pass

AWGN_Middle channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
114.364	Horizontal	-69.43	-13	-56.43	pass
470.898	Horizontal	-54.05	-13	-41.05	pass
787.152	Horizontal	-57.45	-13	-44.45	pass
2074.760	Horizontal	-49.12	-13	-36.12	pass
8034.430	Horizontal	-52.67	-13	-39.67	pass
12306.420	Horizontal	-38.68	-13	-25.68	pass
104.100	Vertical	-62.39	-13	-49.39	pass
349.425	Vertical	-59.48	-13	-46.48	pass
862.979	Vertical	-55.35	-13	-42.35	pass
1981.070	Vertical	-53.13	-13	-40.13	pass
7576.580	Vertical	-48.54	-13	-35.54	pass
11513.970	Vertical	-37.32	-13	-24.32	pass



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AWGN_High channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
91.844	Horizontal	-66.60	-13	-53.6	pass
500.378	Horizontal	-57.15	-13	-44.15	pass
773.172	Horizontal	-60.01	-13	-47.01	pass
2972.840	Horizontal	-48.01	-13	-35.01	pass
7577.530	Horizontal	-51.07	-13	-38.07	pass
11386.210	Horizontal	-39.45	-13	-26.45	pass
106.624	Vertical	-67.58	-13	-54.58	pass
479.428	Vertical	-59.98	-13	-46.98	pass
761.952	Vertical	-56.04	-13	-43.04	pass
2266.520	Vertical	-51.17	-13	-38.17	pass
8303.280	Vertical	-51.81	-13	-38.81	pass
12718.990	Vertical	-41.34	-13	-28.34	pass

GMSK_Low channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
113.004	Horizontal	-63.00	-13	-50	pass
471.628	Horizontal	-56.91	-13	-43.91	pass
810.812	Horizontal	-57.28	-13	-44.28	pass
2190.230	Horizontal	-52.08	-13	-39.08	pass
8538.300	Horizontal	-47.58	-13	-34.58	pass
12252.180	Horizontal	-43.45	-13	-30.45	pass
121.140	Vertical	-69.24	-13	-56.24	pass
354.335	Vertical	-54.70	-13	-41.7	pass
839.379	Vertical	-59.05	-13	-46.05	pass
2961.350	Vertical	-54.01	-13	-41.01	pass
9120.940	Vertical	-48.72	-13	-35.72	pass
11905.160	Vertical	-40.00	-13	-27	pass



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GMSK_Middle channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
95.294	Horizontal	-63.50	-13	-50.5	pass
488.718	Horizontal	-60.78	-13	-47.78	pass
793.432	Horizontal	-57.25	-13	-44.25	pass
2177.560	Horizontal	-49.97	-13	-36.97	pass
8046.380	Horizontal	-55.19	-13	-42.19	pass
12059.430	Horizontal	-42.03	-13	-29.03	pass
99.320	Vertical	-66.18	-13	-53.18	pass
372.025	Vertical	-59.61	-13	-46.61	pass
831.779	Vertical	-56.06	-13	-43.06	pass
2563.880	Vertical	-47.95	-13	-34.95	pass
9484.080	Vertical	-53.28	-13	-40.28	pass
11909.290	Vertical	-40.12	-13	-27.12	pass

GMSK_High channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
103.584	Horizontal	-63.59	-13	-50.59	pass
468.398	Horizontal	-59.35	-13	-46.35	pass
800.172	Horizontal	-59.06	-13	-46.06	pass
2214.980	Horizontal	-51.21	-13	-38.21	pass
8261.590	Horizontal	-48.40	-13	-35.4	pass
12473.270	Horizontal	-38.26	-13	-25.26	pass
117.360	Vertical	-68.72	-13	-55.72	pass
345.515	Vertical	-61.83	-13	-48.83	pass
852.369	Vertical	-54.48	-13	-41.48	pass
2959.270	Vertical	-47.51	-13	-34.51	pass
9617.000	Vertical	-54.33	-13	-41.33	pass
11573.740	Vertical	-43.77	-13	-30.77	pass



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For N66

AWGN_Low channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
127.719	Horizontal	-69.05	-13	-56.05	pass
498.716	Horizontal	-56.78	-13	-43.78	pass
802.712	Horizontal	-57.35	-13	-44.35	pass
3025.810	Horizontal	-47.01	-13	-34.01	pass
9559.160	Horizontal	-49.22	-13	-36.22	pass
12348.170	Horizontal	-43.07	-13	-30.07	pass
194.909	Vertical	-68.61	-13	-55.61	pass
774.285	Vertical	-54.39	-13	-41.39	pass
902.675	Vertical	-59.40	-13	-46.40	pass
3107.560	Vertical	-53.75	-13	-40.75	pass
9683.880	Vertical	-48.18	-13	-35.18	pass
12454.950	Vertical	-40.72	-13	-27.72	pass

AWGN_Middle channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
176.289	Horizontal	-64.57	-13	-51.57	pass
779.895	Horizontal	-55.45	-13	-42.45	pass
876.565	Horizontal	-52.21	-13	-39.21	pass
3123.910	Horizontal	-49.51	-13	-36.51	pass
9460.250	Horizontal	-47.42	-13	-34.42	pass
12280.630	Horizontal	-41.76	-13	-28.76	pass
123.766	Vertical	-64.64	-13	-51.64	pass
591.792	Vertical	-56.35	-13	-43.35	pass
941.606	Vertical	-55.63	-13	-42.63	pass
3028.220	Vertical	-54.73	-13	-41.73	pass
9578.720	Vertical	-49.07	-13	-36.07	pass
12393.930	Vertical	-40.99	-13	-27.99	pass



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AWGN_High channel					
Frequency	Spurious Emission		Limit	Over limit	Result
	Polarization and Level				
MHz	polarization	dBm	dBm	dB	
106.702	Horizontal	-63.29	-13	-50.29	pass
562.189	Horizontal	-55.86	-13	-42.86	pass
822.735	Horizontal	-55.69	-13	-42.69	pass
3023.580	Horizontal	-50.22	-13	-37.22	pass
9550.540	Horizontal	-52.47	-13	-39.47	pass
12350.270	Horizontal	-40.57	-13	-27.57	pass
120.486	Vertical	-66.50	-13	-53.50	pass
714.582	Vertical	-55.97	-13	-42.97	pass
902.806	Vertical	-53.28	-13	-40.28	pass
2982.620	Vertical	-47.41	-13	-34.41	pass
9619.110	Vertical	-55.23	-13	-42.23	pass
12406.670	Vertical	-39.20	-13	-26.20	pass



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