

1. Transmitter Conducted Power Output

1.1 Test Result

1.1.1 15k_SISO_5MHz_NTNV_ERP

5G NR n26a SCS=15kHz SISO 5MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant31	Ant2	Sum	Ant31	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Edge_1RB_Left	24.05	/	/	17.54	/	/	<=38.45	Pass
		Edge_1RB_Right	24.02	/	/	17.51	/	/	<=38.45	Pass
		Outer_Full	24.17	/	/	17.66	/	/	<=38.45	Pass
		Inner_Full	24.47	/	/	17.96	/	/	<=38.45	Pass
		Inner_1RB_Left	24.33	/	/	17.82	/	/	<=38.45	Pass
		Inner_1RB_Right	24.33	/	/	17.82	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	24.08	/	/	17.57	/	/	<=38.45	Pass
		Edge_1RB_Right	24.04	/	/	17.53	/	/	<=38.45	Pass
		Outer_Full	24.20	/	/	17.69	/	/	<=38.45	Pass
		Inner_Full	24.51	/	/	18.00	/	/	<=38.45	Pass
		Inner_1RB_Left	24.41	/	/	17.90	/	/	<=38.45	Pass
		Inner_1RB_Right	24.39	/	/	17.88	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	24.00	/	/	17.49	/	/	<=38.45	Pass
		Edge_1RB_Right	24.01	/	/	17.50	/	/	<=38.45	Pass
		Outer_Full	24.10	/	/	17.59	/	/	<=38.45	Pass
		Inner_Full	24.42	/	/	17.91	/	/	<=38.45	Pass
		Inner_1RB_Left	24.31	/	/	17.80	/	/	<=38.45	Pass
		Inner_1RB_Right	24.34	/	/	17.83	/	/	<=38.45	Pass
DFT-s-OFDM QPSK	819	Edge_1RB_Left	23.78	/	/	17.27	/	/	<=38.45	Pass
		Edge_1RB_Right	23.77	/	/	17.26	/	/	<=38.45	Pass
		Outer_Full	23.68	/	/	17.17	/	/	<=38.45	Pass
		Inner_Full	24.44	/	/	17.93	/	/	<=38.45	Pass
		Inner_1RB_Left	24.55	/	/	18.04	/	/	<=38.45	Pass
		Inner_1RB_Right	24.49	/	/	17.98	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	23.85	/	/	17.34	/	/	<=38.45	Pass
		Edge_1RB_Right	23.80	/	/	17.29	/	/	<=38.45	Pass
		Outer_Full	23.65	/	/	17.14	/	/	<=38.45	Pass
		Inner_Full	24.50	/	/	17.99	/	/	<=38.45	Pass
		Inner_1RB_Left	24.58	/	/	18.07	/	/	<=38.45	Pass
		Inner_1RB_Right	24.52	/	/	18.01	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	23.71	/	/	17.20	/	/	<=38.45	Pass
		Edge_1RB_Right	23.70	/	/	17.19	/	/	<=38.45	Pass
		Outer_Full	23.60	/	/	17.09	/	/	<=38.45	Pass
		Inner_Full	24.47	/	/	17.96	/	/	<=38.45	Pass
		Inner_1RB_Left	24.68	/	/	18.17	/	/	<=38.45	Pass
		Inner_1RB_Right	24.51	/	/	18.00	/	/	<=38.45	Pass
DFT-s-OFDM 16 QAM	819	Edge_1RB_Left	22.63	/	/	16.12	/	/	<=38.45	Pass
		Edge_1RB_Right	22.73	/	/	16.22	/	/	<=38.45	Pass
		Outer_Full	22.63	/	/	16.12	/	/	<=38.45	Pass
		Inner_Full	23.64	/	/	17.13	/	/	<=38.45	Pass
		Inner_1RB_Left	23.73	/	/	17.22	/	/	<=38.45	Pass
		Inner_1RB_Right	23.74	/	/	17.23	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	22.77	/	/	16.26	/	/	<=38.45	Pass
		Edge_1RB_Right	22.73	/	/	16.22	/	/	<=38.45	Pass
		Outer_Full	22.66	/	/	16.15	/	/	<=38.45	Pass
		Inner_Full	23.70	/	/	17.19	/	/	<=38.45	Pass
		Inner_1RB_Left	23.79	/	/	17.28	/	/	<=38.45	Pass
		Inner_1RB_Right	23.75	/	/	17.24	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	22.74	/	/	16.23	/	/	<=38.45	Pass

		Edge_1RB_Right	22.71	/	/	16.20	/	/	<=38.45	Pass
		Outer_Full	22.57	/	/	16.06	/	/	<=38.45	Pass
		Inner_Full	23.62	/	/	17.11	/	/	<=38.45	Pass
		Inner_1RB_Left	23.54	/	/	17.03	/	/	<=38.45	Pass
		Inner_1RB_Right	23.70	/	/	17.19	/	/	<=38.45	Pass
DFT-s-OFDM 64 QAM	819	Edge_1RB_Left	21.82	/	/	15.31	/	/	<=38.45	Pass
		Edge_1RB_Right	21.85	/	/	15.34	/	/	<=38.45	Pass
		Outer_Full	22.21	/	/	15.70	/	/	<=38.45	Pass
		Inner_Full	22.18	/	/	15.67	/	/	<=38.45	Pass
		Inner_1RB_Left	22.00	/	/	15.49	/	/	<=38.45	Pass
		Inner_1RB_Right	21.84	/	/	15.33	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	21.84	/	/	15.33	/	/	<=38.45	Pass
		Edge_1RB_Right	21.87	/	/	15.36	/	/	<=38.45	Pass
		Outer_Full	22.17	/	/	15.66	/	/	<=38.45	Pass
		Inner_Full	22.20	/	/	15.69	/	/	<=38.45	Pass
		Inner_1RB_Left	21.87	/	/	15.36	/	/	<=38.45	Pass
		Inner_1RB_Right	21.90	/	/	15.39	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	21.91	/	/	15.40	/	/	<=38.45	Pass
		Edge_1RB_Right	21.81	/	/	15.30	/	/	<=38.45	Pass
		Outer_Full	22.16	/	/	15.65	/	/	<=38.45	Pass
		Inner_Full	22.16	/	/	15.65	/	/	<=38.45	Pass
		Inner_1RB_Left	21.82	/	/	15.31	/	/	<=38.45	Pass
		Inner_1RB_Right	21.83	/	/	15.32	/	/	<=38.45	Pass
DFT-s-OFDM 256 QAM	819	Edge_1RB_Left	20.04	/	/	13.53	/	/	<=38.45	Pass
		Edge_1RB_Right	20.01	/	/	13.50	/	/	<=38.45	Pass
		Outer_Full	20.09	/	/	13.58	/	/	<=38.45	Pass
		Inner_Full	20.22	/	/	13.71	/	/	<=38.45	Pass
		Inner_1RB_Left	20.09	/	/	13.58	/	/	<=38.45	Pass
		Inner_1RB_Right	20.06	/	/	13.55	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	20.14	/	/	13.63	/	/	<=38.45	Pass
		Edge_1RB_Right	20.08	/	/	13.57	/	/	<=38.45	Pass
		Outer_Full	20.13	/	/	13.62	/	/	<=38.45	Pass
		Inner_Full	20.20	/	/	13.69	/	/	<=38.45	Pass
		Inner_1RB_Left	20.14	/	/	13.63	/	/	<=38.45	Pass
		Inner_1RB_Right	20.11	/	/	13.60	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	19.95	/	/	13.44	/	/	<=38.45	Pass
		Edge_1RB_Right	20.04	/	/	13.53	/	/	<=38.45	Pass
		Outer_Full	20.07	/	/	13.56	/	/	<=38.45	Pass
		Inner_Full	20.16	/	/	13.65	/	/	<=38.45	Pass
		Inner_1RB_Left	20.01	/	/	13.50	/	/	<=38.45	Pass
		Inner_1RB_Right	19.98	/	/	13.47	/	/	<=38.45	Pass
CP-OFDM QPSK	819	Edge_1RB_Left	21.63	/	/	15.12	/	/	<=38.45	Pass
		Edge_1RB_Right	21.54	/	/	15.03	/	/	<=38.45	Pass
		Outer_Full	21.66	/	/	15.15	/	/	<=38.45	Pass
		Inner_Full	23.09	/	/	16.58	/	/	<=38.45	Pass
		Inner_1RB_Left	23.18	/	/	16.67	/	/	<=38.45	Pass
		Inner_1RB_Right	23.11	/	/	16.60	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	21.65	/	/	15.14	/	/	<=38.45	Pass
		Edge_1RB_Right	21.59	/	/	15.08	/	/	<=38.45	Pass
		Outer_Full	21.64	/	/	15.13	/	/	<=38.45	Pass
		Inner_Full	23.12	/	/	16.61	/	/	<=38.45	Pass
		Inner_1RB_Left	23.24	/	/	16.73	/	/	<=38.45	Pass
		Inner_1RB_Right	23.19	/	/	16.68	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	21.82	/	/	15.31	/	/	<=38.45	Pass
		Edge_1RB_Right	21.55	/	/	15.04	/	/	<=38.45	Pass
		Outer_Full	21.59	/	/	15.08	/	/	<=38.45	Pass
		Inner_Full	23.05	/	/	16.54	/	/	<=38.45	Pass
		Inner_1RB_Left	23.11	/	/	16.60	/	/	<=38.45	Pass
		Inner_1RB_Right	23.10	/	/	16.59	/	/	<=38.45	Pass

CP-OFDM 16 QAM	819	Edge_1RB_Left	21.79	/	/	15.28	/	/	<=38.45	Pass
		Edge_1RB_Right	21.74	/	/	15.23	/	/	<=38.45	Pass
		Outer_Full	21.63	/	/	15.12	/	/	<=38.45	Pass
		Inner_Full	22.60	/	/	16.09	/	/	<=38.45	Pass
		Inner_1RB_Left	22.98	/	/	16.47	/	/	<=38.45	Pass
		Inner_1RB_Right	22.75	/	/	16.24	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	21.75	/	/	15.24	/	/	<=38.45	Pass
		Edge_1RB_Right	21.70	/	/	15.19	/	/	<=38.45	Pass
		Outer_Full	21.64	/	/	15.13	/	/	<=38.45	Pass
		Inner_Full	22.59	/	/	16.08	/	/	<=38.45	Pass
		Inner_1RB_Left	22.75	/	/	16.24	/	/	<=38.45	Pass
		Inner_1RB_Right	22.75	/	/	16.24	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	21.77	/	/	15.26	/	/	<=38.45	Pass
		Edge_1RB_Right	21.64	/	/	15.13	/	/	<=38.45	Pass
		Outer_Full	21.59	/	/	15.08	/	/	<=38.45	Pass
		Inner_Full	22.55	/	/	16.04	/	/	<=38.45	Pass
		Inner_1RB_Left	22.72	/	/	16.21	/	/	<=38.45	Pass
		Inner_1RB_Right	22.72	/	/	16.21	/	/	<=38.45	Pass
CP-OFDM 64 QAM	819	Edge_1RB_Left	20.97	/	/	14.46	/	/	<=38.45	Pass
		Edge_1RB_Right	20.90	/	/	14.39	/	/	<=38.45	Pass
		Outer_Full	21.11	/	/	14.60	/	/	<=38.45	Pass
		Inner_Full	21.11	/	/	14.60	/	/	<=38.45	Pass
		Inner_1RB_Left	20.95	/	/	14.44	/	/	<=38.45	Pass
		Inner_1RB_Right	21.08	/	/	14.57	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	20.96	/	/	14.45	/	/	<=38.45	Pass
		Edge_1RB_Right	20.98	/	/	14.47	/	/	<=38.45	Pass
		Outer_Full	21.14	/	/	14.63	/	/	<=38.45	Pass
		Inner_Full	21.13	/	/	14.62	/	/	<=38.45	Pass
		Inner_1RB_Left	20.94	/	/	14.43	/	/	<=38.45	Pass
		Inner_1RB_Right	20.99	/	/	14.48	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	20.89	/	/	14.38	/	/	<=38.45	Pass
		Edge_1RB_Right	20.93	/	/	14.42	/	/	<=38.45	Pass
		Outer_Full	21.08	/	/	14.57	/	/	<=38.45	Pass
		Inner_Full	21.07	/	/	14.56	/	/	<=38.45	Pass
		Inner_1RB_Left	20.89	/	/	14.38	/	/	<=38.45	Pass
		Inner_1RB_Right	20.94	/	/	14.43	/	/	<=38.45	Pass
CP-OFDM 256 QAM	819	Edge_1RB_Left	18.19	/	/	11.68	/	/	<=38.45	Pass
		Edge_1RB_Right	18.14	/	/	11.63	/	/	<=38.45	Pass
		Outer_Full	18.13	/	/	11.62	/	/	<=38.45	Pass
		Inner_Full	18.15	/	/	11.64	/	/	<=38.45	Pass
		Inner_1RB_Left	18.12	/	/	11.61	/	/	<=38.45	Pass
		Inner_1RB_Right	18.11	/	/	11.60	/	/	<=38.45	Pass
	816.5	Edge_1RB_Left	18.14	/	/	11.63	/	/	<=38.45	Pass
		Edge_1RB_Right	18.08	/	/	11.57	/	/	<=38.45	Pass
		Outer_Full	18.14	/	/	11.63	/	/	<=38.45	Pass
		Inner_Full	18.16	/	/	11.65	/	/	<=38.45	Pass
		Inner_1RB_Left	18.17	/	/	11.66	/	/	<=38.45	Pass
		Inner_1RB_Right	18.14	/	/	11.63	/	/	<=38.45	Pass
	821.5	Edge_1RB_Left	18.05	/	/	11.54	/	/	<=38.45	Pass
		Edge_1RB_Right	18.06	/	/	11.55	/	/	<=38.45	Pass
		Outer_Full	18.07	/	/	11.56	/	/	<=38.45	Pass
		Inner_Full	18.10	/	/	11.59	/	/	<=38.45	Pass
		Inner_1RB_Left	18.07	/	/	11.56	/	/	<=38.45	Pass
		Inner_1RB_Right	18.08	/	/	11.57	/	/	<=38.45	Pass
Note1: Antenna Gain: Ant31: -4.36dBi;										
Note2: ERP=Conducted Power+Antenna Gain-2.15										

1.1.2 15k_SISO_10MHz_NTNV_ERP

5G NR n26a SCS=15kHz SISO 10MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			ERP(dBm)				Verdict
			Ant31	Ant2	Sum	Ant31	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Edge_1RB_Left	24.08	/	/	17.57	/	/	<=38.45	Pass
		Edge_1RB_Right	24.04	/	/	17.53	/	/	<=38.45	Pass
		Outer_Full	24.11	/	/	17.60	/	/	<=38.45	Pass
		Inner_Full	24.40	/	/	17.89	/	/	<=38.45	Pass
		Inner_1RB_Left	24.47	/	/	17.96	/	/	<=38.45	Pass
		Inner_1RB_Right	24.37	/	/	17.86	/	/	<=38.45	Pass
DFT-s-OFDM QPSK	819	Edge_1RB_Left	23.89	/	/	17.38	/	/	<=38.45	Pass
		Edge_1RB_Right	23.67	/	/	17.16	/	/	<=38.45	Pass
		Outer_Full	23.66	/	/	17.15	/	/	<=38.45	Pass
		Inner_Full	24.43	/	/	17.92	/	/	<=38.45	Pass
		Inner_1RB_Left	24.62	/	/	18.11	/	/	<=38.45	Pass
		Inner_1RB_Right	24.67	/	/	18.16	/	/	<=38.45	Pass
DFT-s-OFDM 16 QAM	819	Edge_1RB_Left	22.80	/	/	16.29	/	/	<=38.45	Pass
		Edge_1RB_Right	22.73	/	/	16.22	/	/	<=38.45	Pass
		Outer_Full	22.62	/	/	16.11	/	/	<=38.45	Pass
		Inner_Full	23.60	/	/	17.09	/	/	<=38.45	Pass
		Inner_1RB_Left	23.80	/	/	17.29	/	/	<=38.45	Pass
		Inner_1RB_Right	23.74	/	/	17.23	/	/	<=38.45	Pass
DFT-s-OFDM 64 QAM	819	Edge_1RB_Left	22.02	/	/	15.51	/	/	<=38.45	Pass
		Edge_1RB_Right	21.84	/	/	15.33	/	/	<=38.45	Pass
		Outer_Full	22.13	/	/	15.62	/	/	<=38.45	Pass
		Inner_Full	22.17	/	/	15.66	/	/	<=38.45	Pass
		Inner_1RB_Left	22.03	/	/	15.52	/	/	<=38.45	Pass
		Inner_1RB_Right	21.81	/	/	15.30	/	/	<=38.45	Pass
DFT-s-OFDM 256 QAM	819	Edge_1RB_Left	20.19	/	/	13.68	/	/	<=38.45	Pass
		Edge_1RB_Right	20.13	/	/	13.62	/	/	<=38.45	Pass
		Outer_Full	20.15	/	/	13.64	/	/	<=38.45	Pass
		Inner_Full	20.10	/	/	13.59	/	/	<=38.45	Pass
		Inner_1RB_Left	20.22	/	/	13.71	/	/	<=38.45	Pass
		Inner_1RB_Right	20.12	/	/	13.61	/	/	<=38.45	Pass
CP-OFDM QPSK	819	Edge_1RB_Left	21.65	/	/	15.14	/	/	<=38.45	Pass
		Edge_1RB_Right	21.59	/	/	15.08	/	/	<=38.45	Pass
		Outer_Full	21.63	/	/	15.12	/	/	<=38.45	Pass
		Inner_Full	23.17	/	/	16.66	/	/	<=38.45	Pass
		Inner_1RB_Left	23.23	/	/	16.72	/	/	<=38.45	Pass
		Inner_1RB_Right	23.10	/	/	16.59	/	/	<=38.45	Pass
CP-OFDM 16 QAM	819	Edge_1RB_Left	21.85	/	/	15.34	/	/	<=38.45	Pass
		Edge_1RB_Right	21.75	/	/	15.24	/	/	<=38.45	Pass
		Outer_Full	21.62	/	/	15.11	/	/	<=38.45	Pass
		Inner_Full	22.57	/	/	16.06	/	/	<=38.45	Pass
		Inner_1RB_Left	22.79	/	/	16.28	/	/	<=38.45	Pass
		Inner_1RB_Right	22.74	/	/	16.23	/	/	<=38.45	Pass
CP-OFDM 64 QAM	819	Edge_1RB_Left	21.01	/	/	14.50	/	/	<=38.45	Pass
		Edge_1RB_Right	20.94	/	/	14.43	/	/	<=38.45	Pass
		Outer_Full	21.11	/	/	14.60	/	/	<=38.45	Pass
		Inner_Full	21.12	/	/	14.61	/	/	<=38.45	Pass
		Inner_1RB_Left	21.07	/	/	14.56	/	/	<=38.45	Pass
		Inner_1RB_Right	20.93	/	/	14.42	/	/	<=38.45	Pass
CP-OFDM 256 QAM	819	Edge_1RB_Left	18.12	/	/	11.61	/	/	<=38.45	Pass
		Edge_1RB_Right	18.09	/	/	11.58	/	/	<=38.45	Pass
		Outer_Full	18.08	/	/	11.57	/	/	<=38.45	Pass
		Inner_Full	18.10	/	/	11.59	/	/	<=38.45	Pass
		Inner_1RB_Left	18.16	/	/	11.65	/	/	<=38.45	Pass
		Inner_1RB_Right	18.08	/	/	11.57	/	/	<=38.45	Pass
Note1: Antenna Gain: Ant31: -4.36dBi; Note2: ERP=Conducted Power+Antenna Gain-2.15										

2. Frequency Stability

2.1 Test Result

2.1.1 15k_SISO_10MHz

5G NR n26a SCS=15kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM QPSK	819	Outer_Full	20	LV	-2.10	-0.0026	>=-2.5 & <=2.5	Pass
				HV	-5.90	-0.0072	>=-2.5 & <=2.5	Pass
			-30	NV	-5.70	-0.0070	>=-2.5 & <=2.5	Pass
			-20	NV	-2.40	-0.0029	>=-2.5 & <=2.5	Pass
			-10	NV	-3.00	-0.0037	>=-2.5 & <=2.5	Pass
			0	NV	-3.40	-0.0042	>=-2.5 & <=2.5	Pass
			10	NV	-3.50	-0.0043	>=-2.5 & <=2.5	Pass
			20	NV	-5.10	-0.0062	>=-2.5 & <=2.5	Pass
			30	NV	-1.80	-0.0022	>=-2.5 & <=2.5	Pass
			40	NV	-4.70	-0.0057	>=-2.5 & <=2.5	Pass
			50	NV	1.10	0.0013	>=-2.5 & <=2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 15k_SISO_5MHz_NTNV

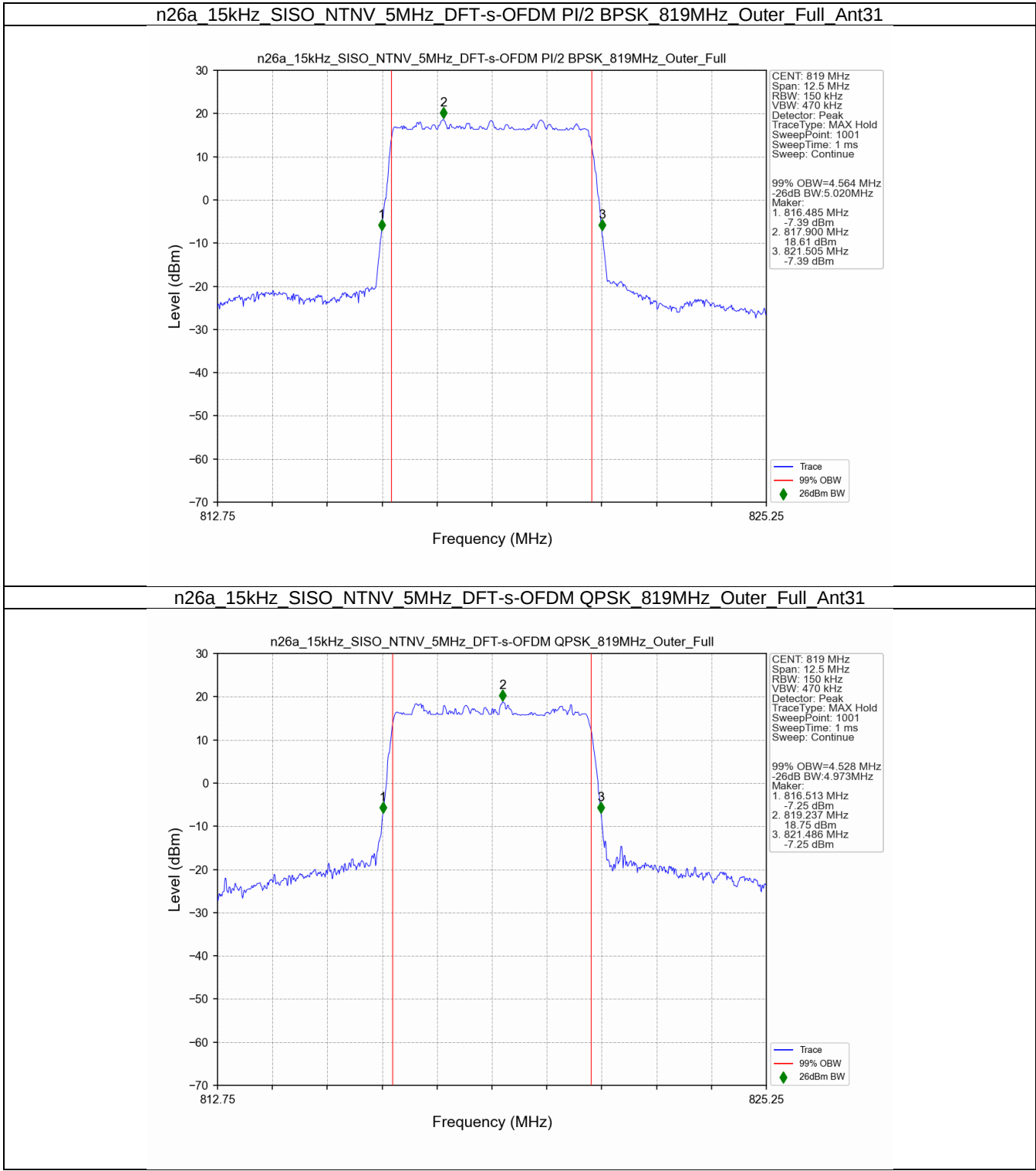
5G NR n26a SCS=15kHz SISO 5MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	819	Outer_Full	4.56	5.02	/	Pass
DFT-s-OFDM QPSK	819	Outer_Full	4.53	4.97	/	Pass
DFT-s-OFDM 16 QAM	819	Outer_Full	4.53	4.98	/	Pass
DFT-s-OFDM 64 QAM	819	Outer_Full	4.56	5.01	/	Pass
DFT-s-OFDM 256 QAM	819	Outer_Full	4.54	5.00	/	Pass
CP-OFDM QPSK	819	Outer_Full	4.53	5.01	/	Pass
CP-OFDM 16 QAM	819	Outer_Full	4.54	5.06	/	Pass
CP-OFDM 64 QAM	819	Outer_Full	4.52	4.98	/	Pass
CP-OFDM 256 QAM	819	Outer_Full	4.52	5.00	/	Pass

3.1.2 15k_SISO_10MHz_NTNV

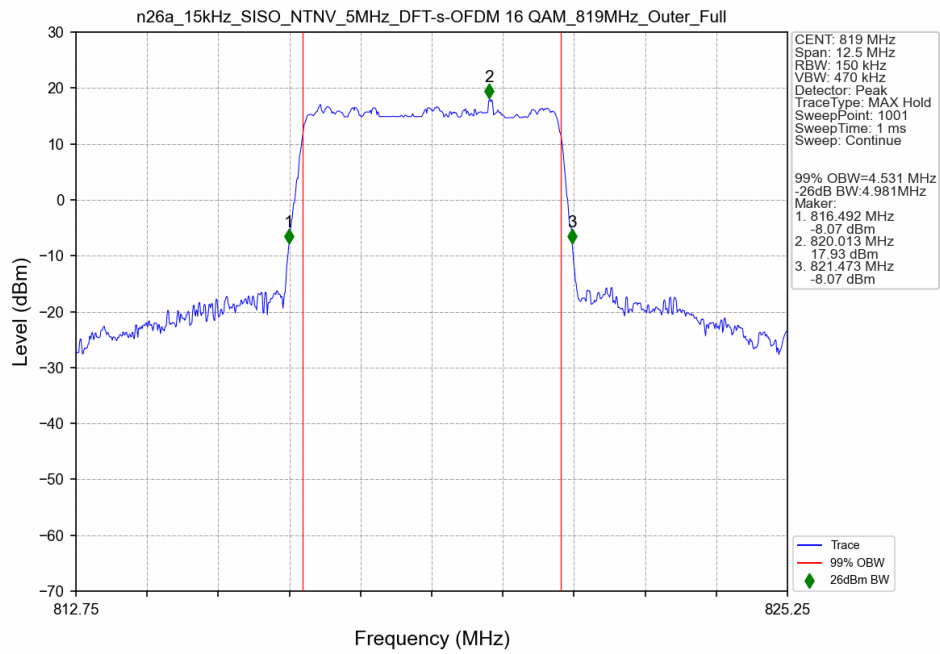
5G NR n26a SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	819	Outer_Full	9.05	9.72	/	Pass
DFT-s-OFDM QPSK	819	Outer_Full	9.05	9.72	/	Pass
DFT-s-OFDM 16 QAM	819	Outer_Full	9.06	9.78	/	Pass
DFT-s-OFDM 64 QAM	819	Outer_Full	9.07	9.77	/	Pass
DFT-s-OFDM 256 QAM	819	Outer_Full	9.00	9.67	/	Pass
CP-OFDM QPSK	819	Outer_Full	9.41	10.83	/	Pass
CP-OFDM 16 QAM	819	Outer_Full	9.36	10.48	/	Pass
CP-OFDM 64 QAM	819	Outer_Full	9.40	10.62	/	Pass
CP-OFDM 256 QAM	819	Outer_Full	9.34	10.06	/	Pass

3.2 Test Graph

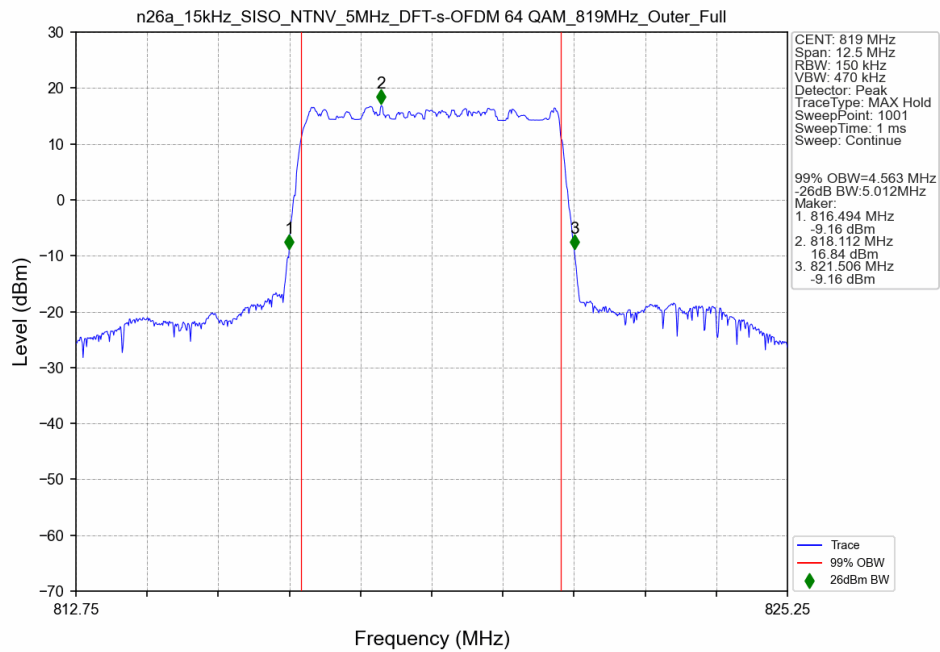
3.2.1 15k_SISO_5MHz_NTNV



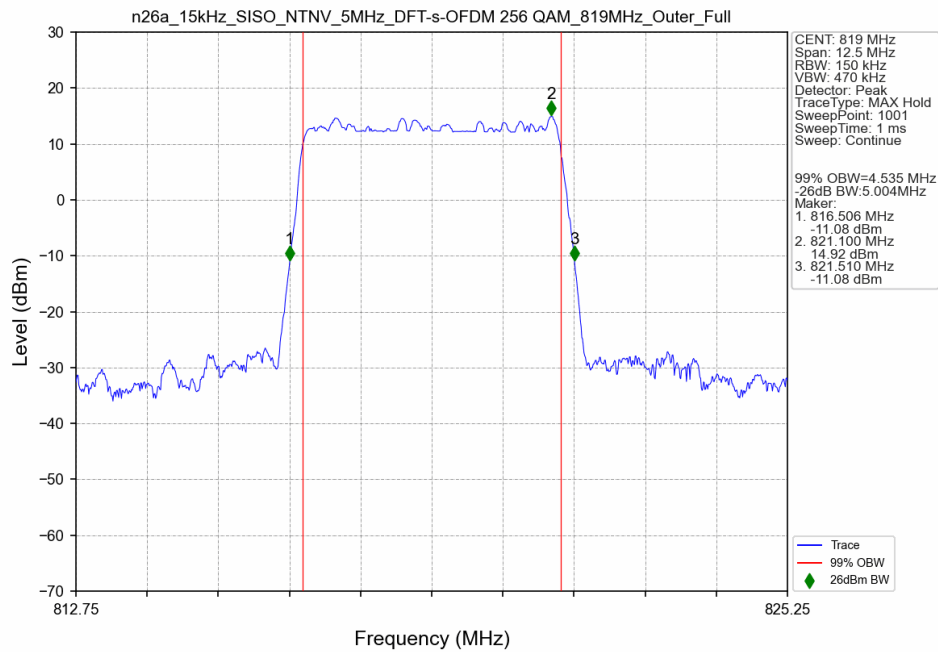
n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_819MHz_Outer_Full_Ant31



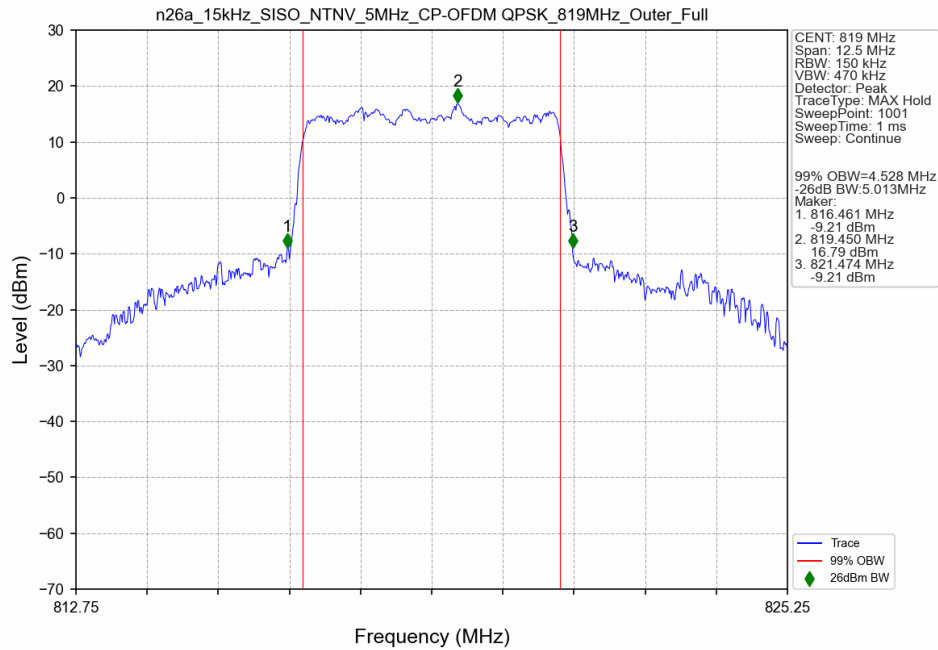
n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_819MHz_Outer_Full_Ant31



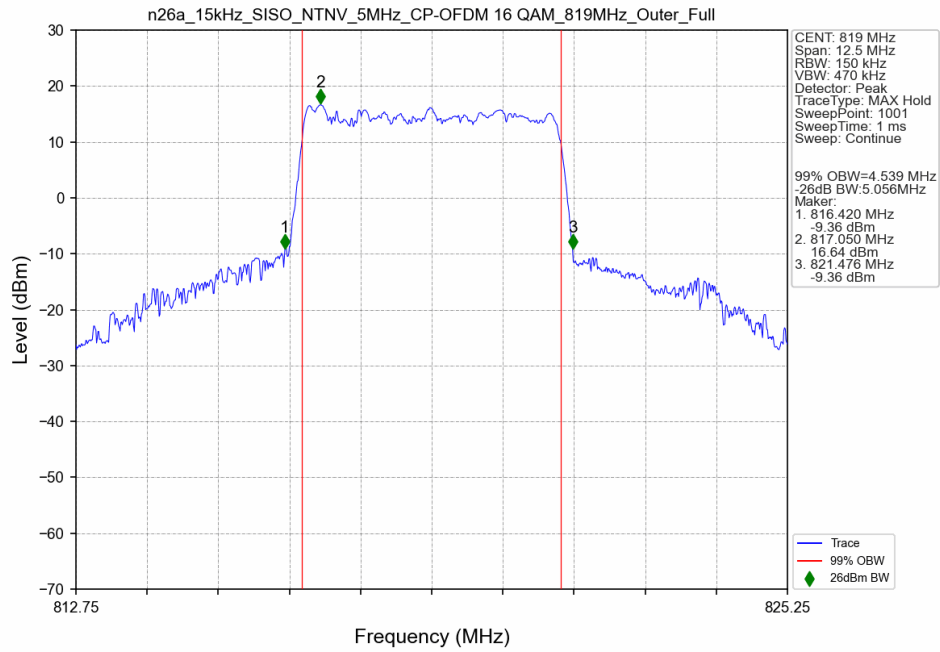
n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_819MHz_Outer_Full_Ant31



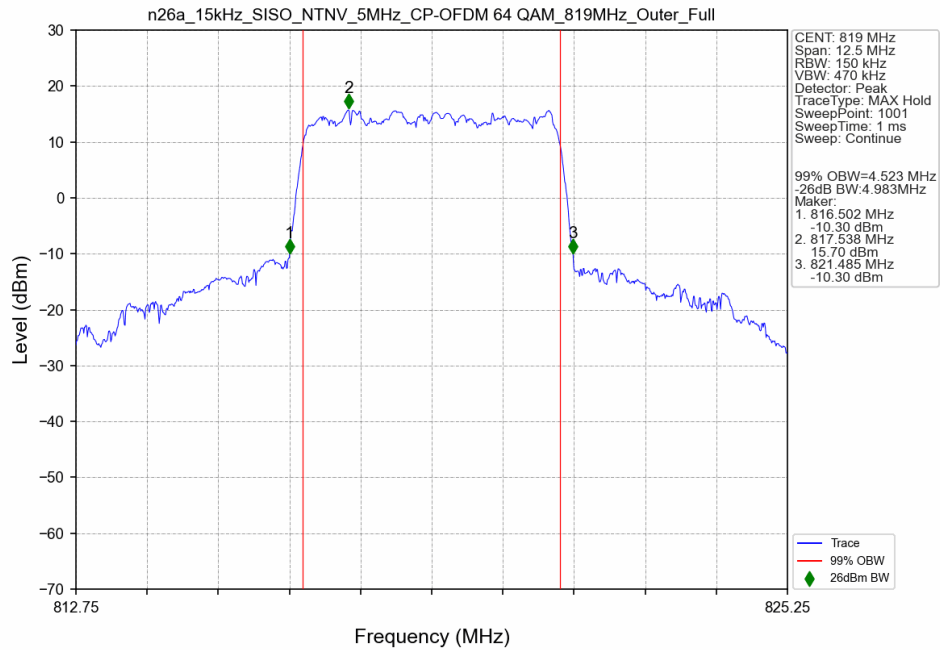
n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_819MHz_Outer_Full_Ant31

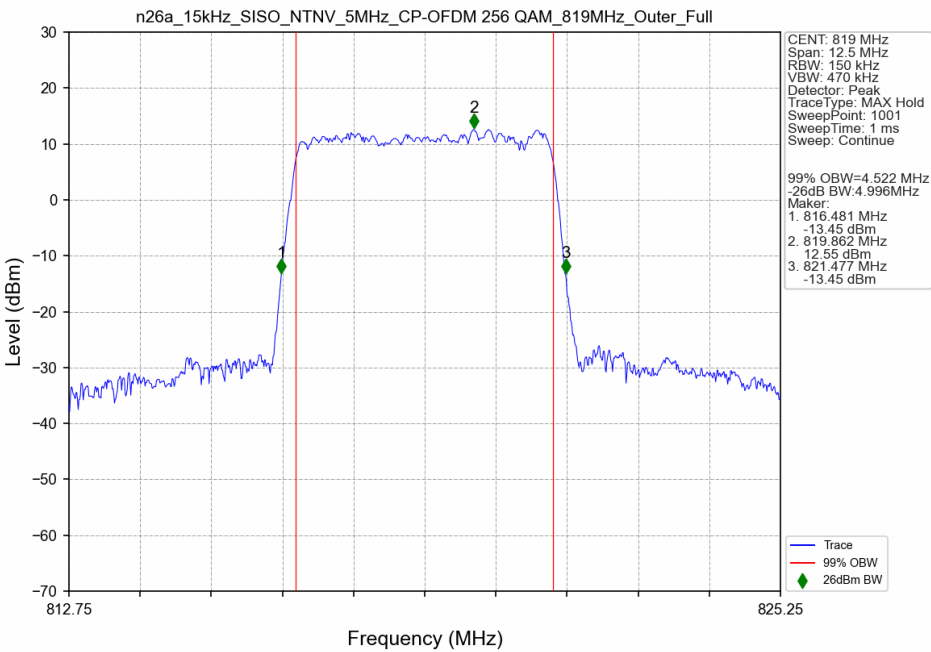


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_819MHz_Outer_Full_Ant31

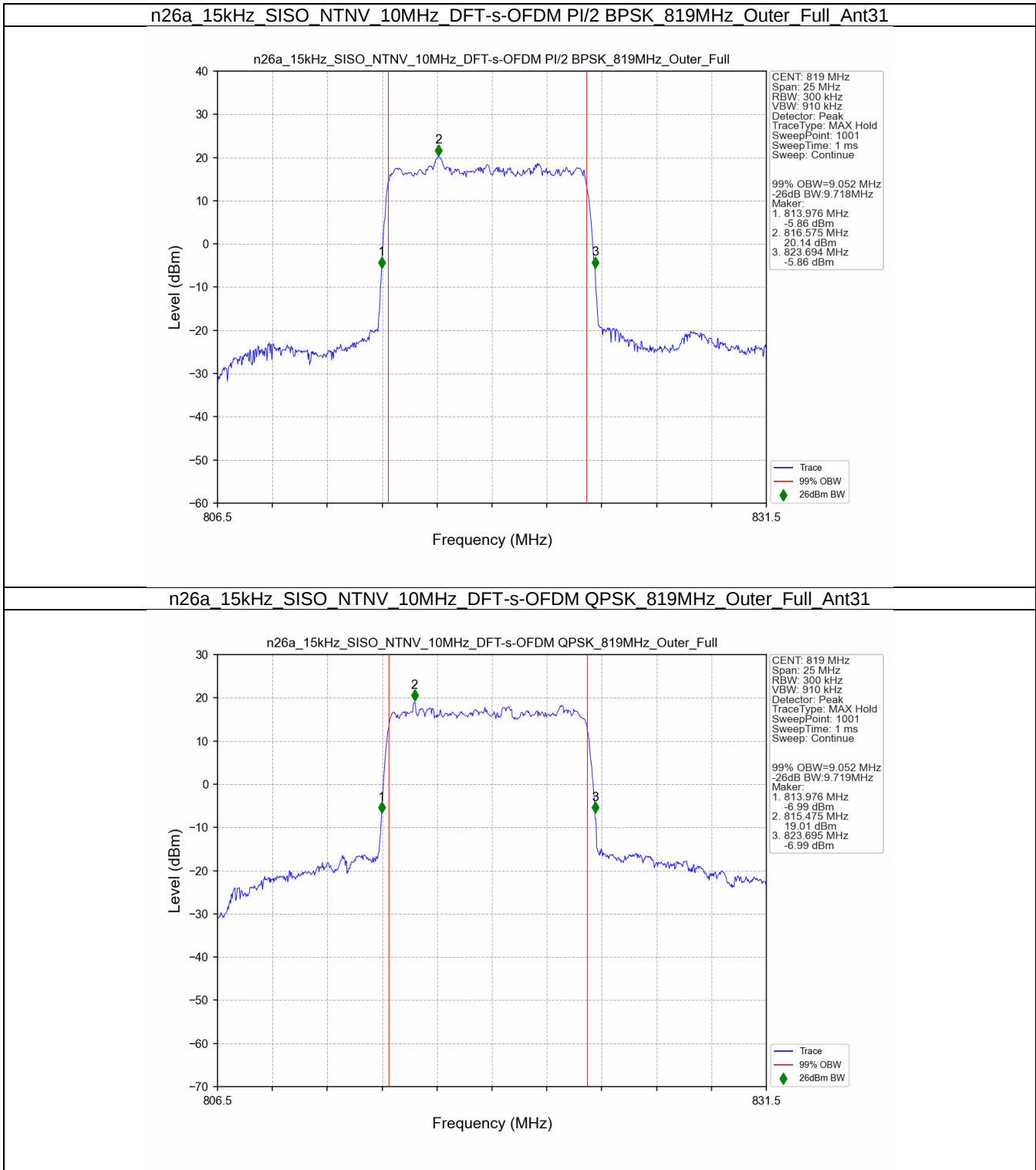


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_819MHz_Outer_Full_Ant31

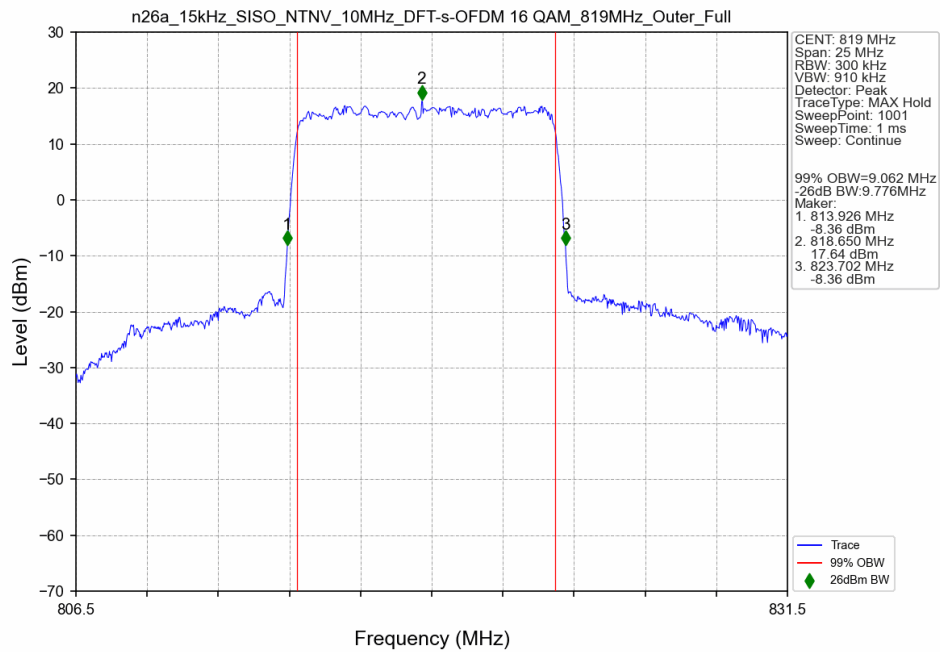




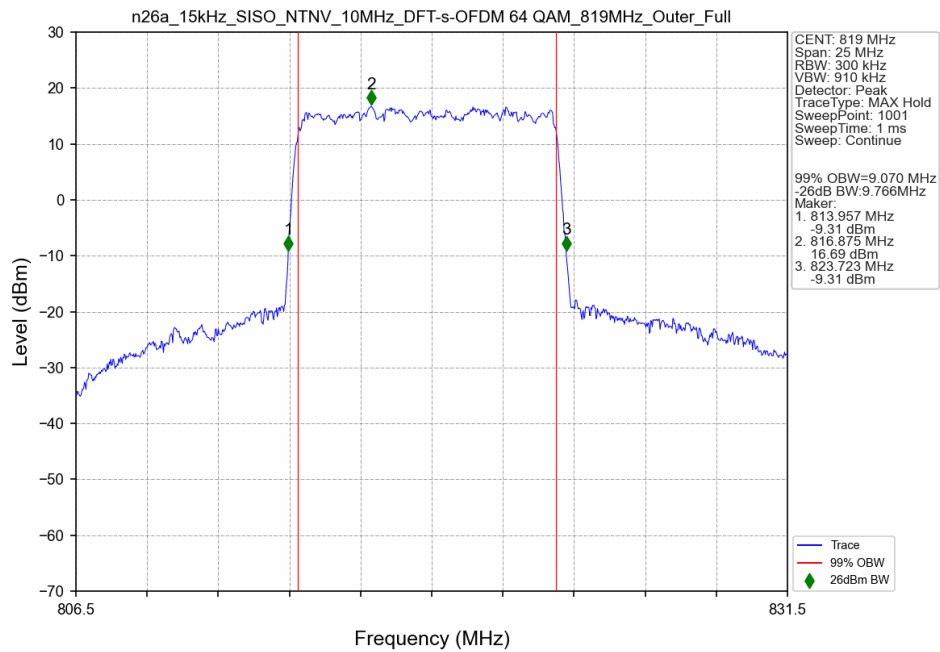
3.2.2 15k_SISO_10MHz_NTNV



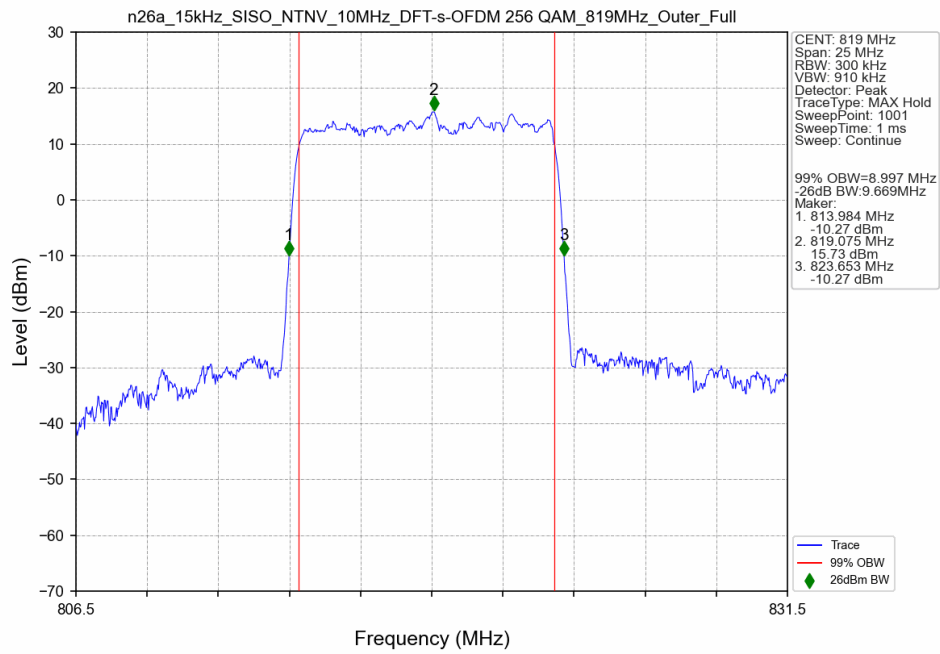
n26a 15kHz SISO NTN 10MHz DFT-s-OFDM 16 QAM 819MHz Outer Full Ant31



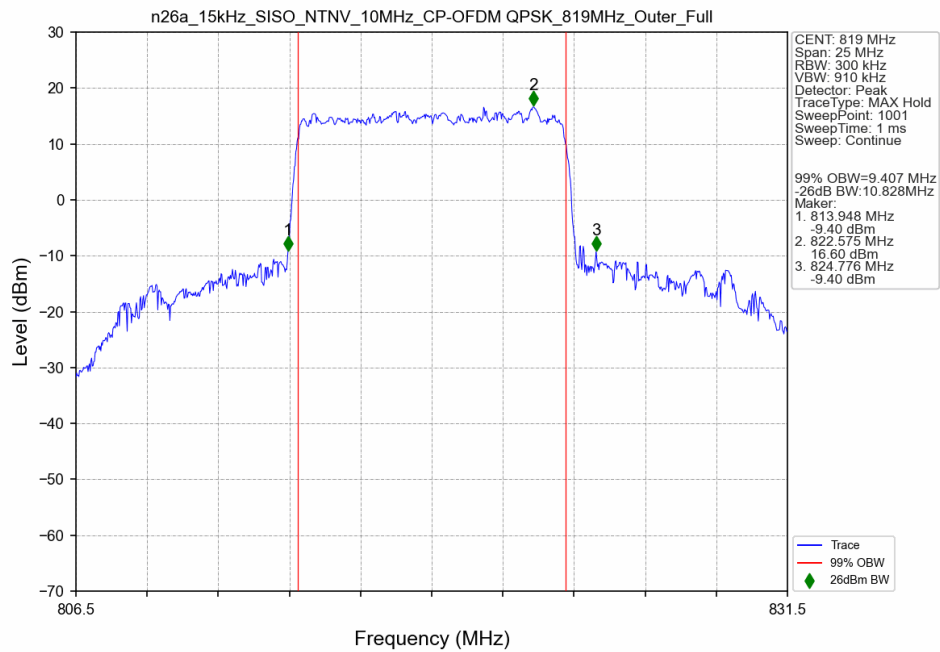
n26a 15kHz SISO NTN 10MHz DFT-s-OFDM 64 QAM 819MHz Outer Full Ant31



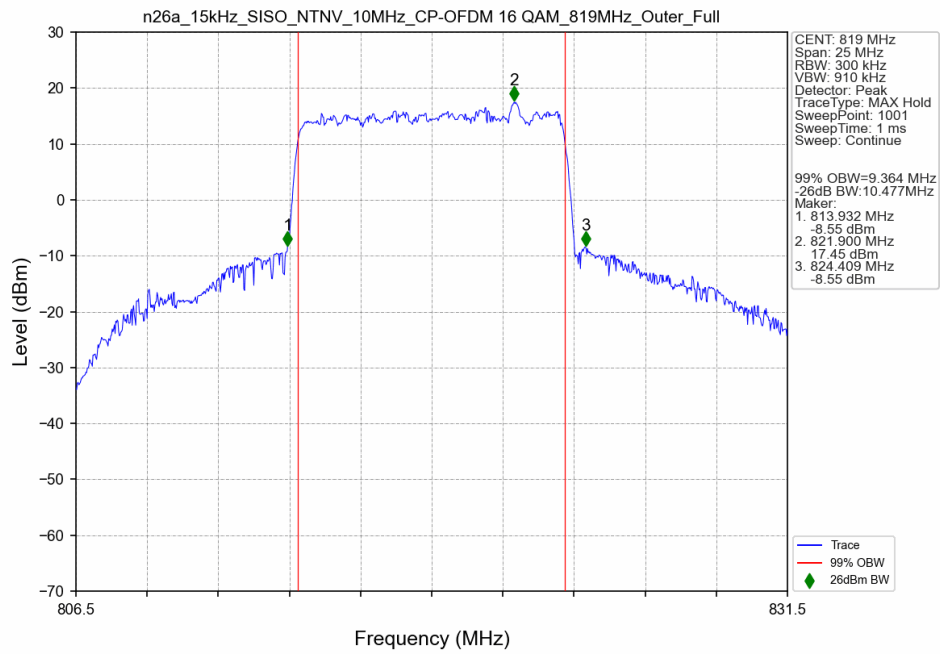
n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_819MHz_Outer_Full_Ant31



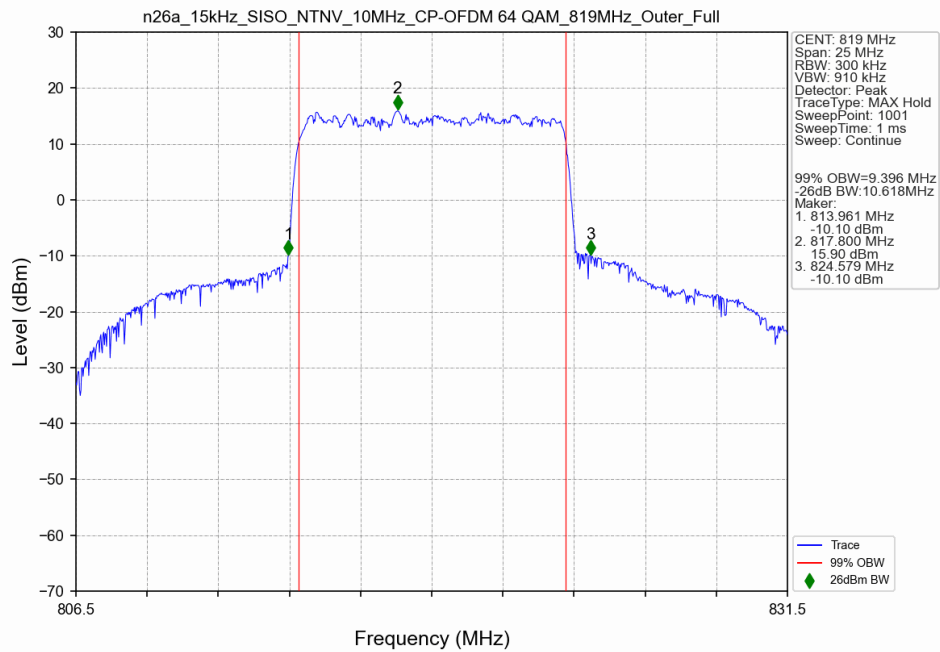
n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_819MHz_Outer_Full_Ant31



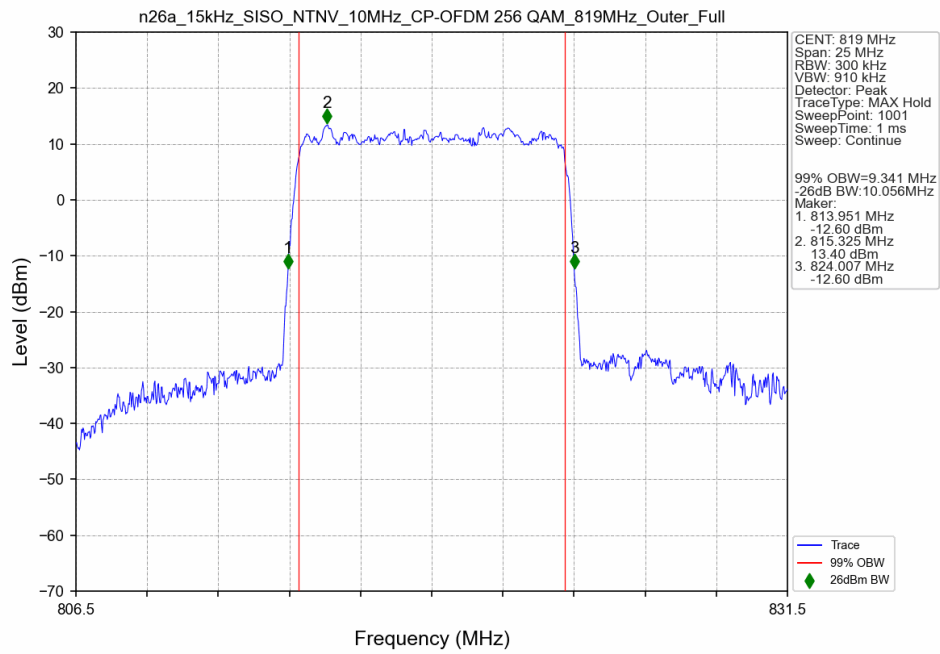
n26a 15kHz SISO NTN 10MHz CP-OFDM 16 QAM 819MHz Outer Full Ant31



n26a 15kHz SISO NTN 10MHz CP-OFDM 64 QAM 819MHz Outer Full Ant31



n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_819MHz_Outer_Full_Ant31



4. Peak-Average Ratio

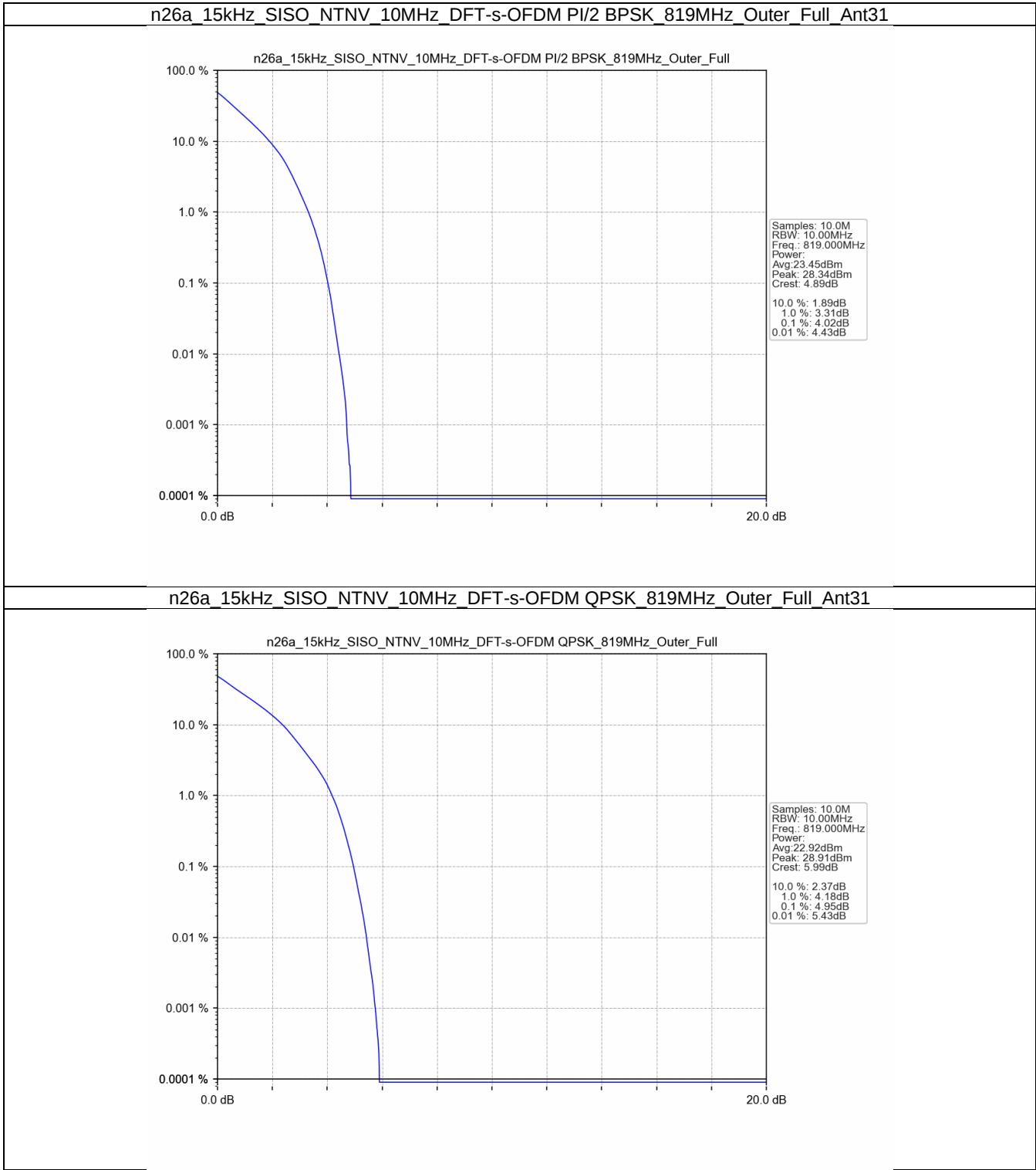
4.1 Test Result

4.1.1 15k_SISO_10MHz_NTNV

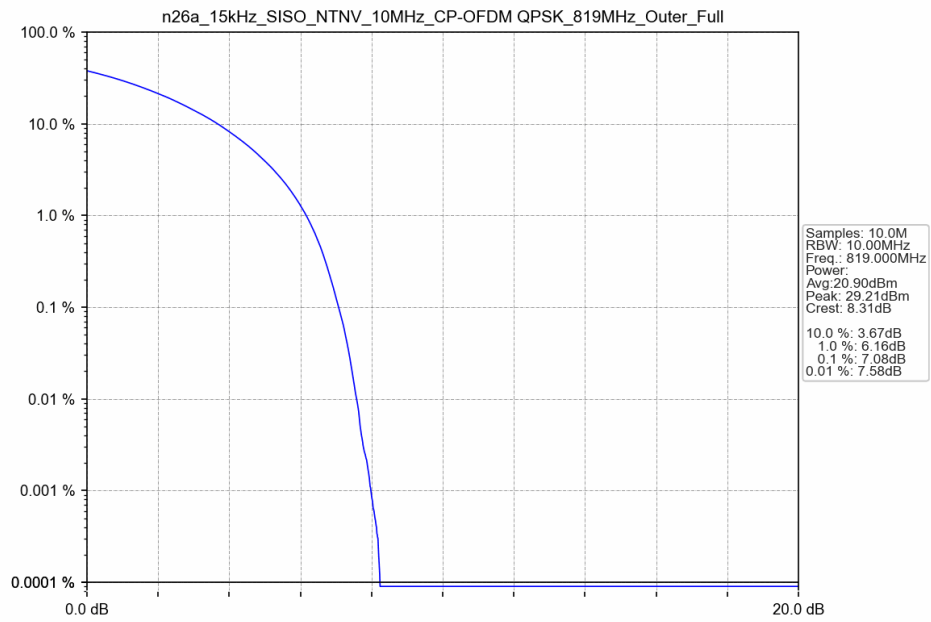
5G NR n26a SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant31	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Outer_Full	4.02	/	/	<=13	Pass
DFT-s-OFDM QPSK	819	Outer_Full	4.95	/	/	<=13	Pass
CP-OFDM QPSK	819	Outer_Full	7.08	/	/	<=13	Pass

4.2 Test Graph

4.2.1 15k_SISO_10MHz_NTNV



n26a_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_819MHz_Outer_Full_Ant31



5. Spurious Emission

5.1 Test Result

5.1.1 15k_SISO_5MHz_NTNV

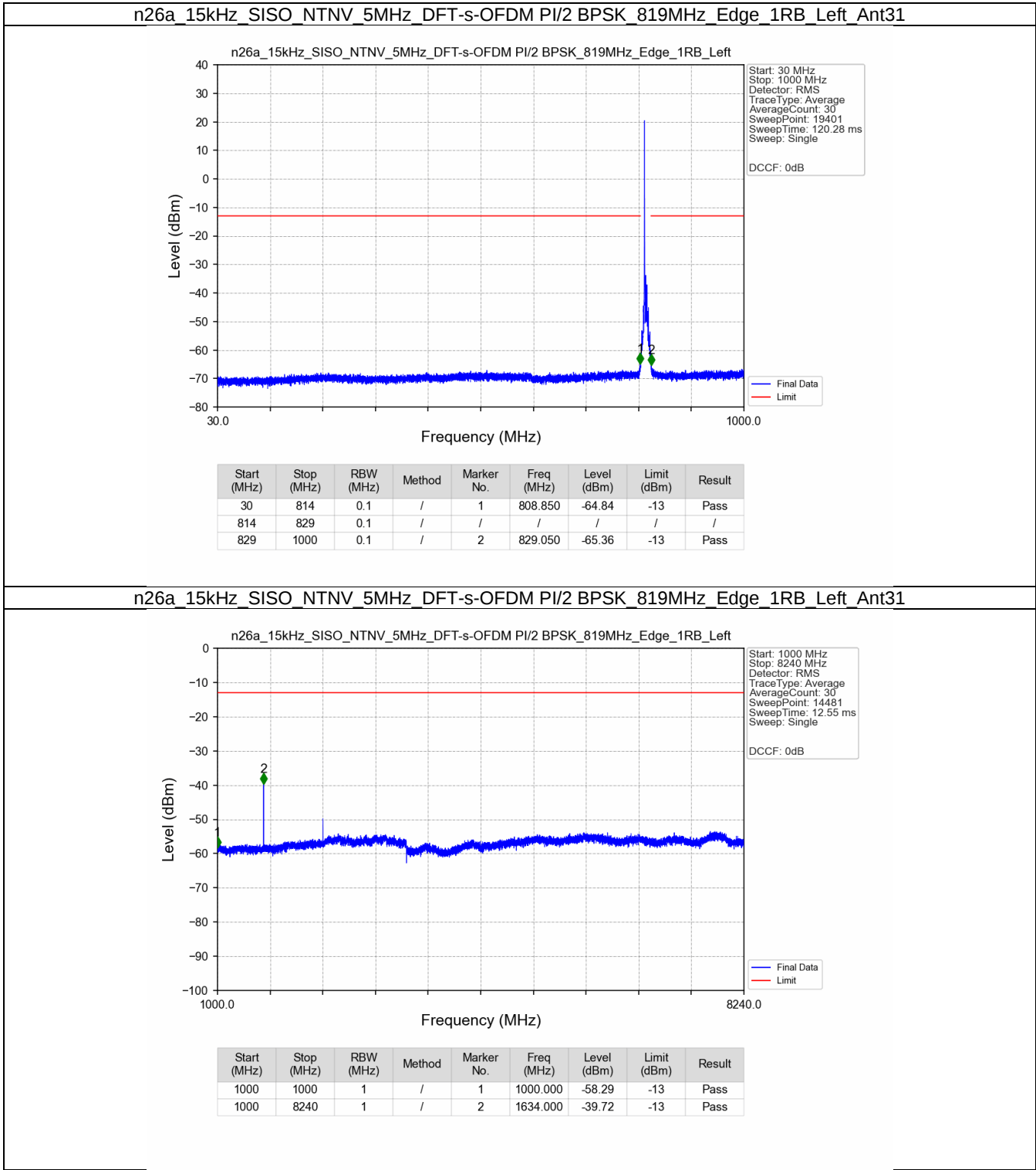
5G NR n26a SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant31	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
	816.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	821.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
	816.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	821.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
	816.5	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
	821.5	Edge_1RB_Right	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

5.1.2 15k_SISO_10MHz_NTNV

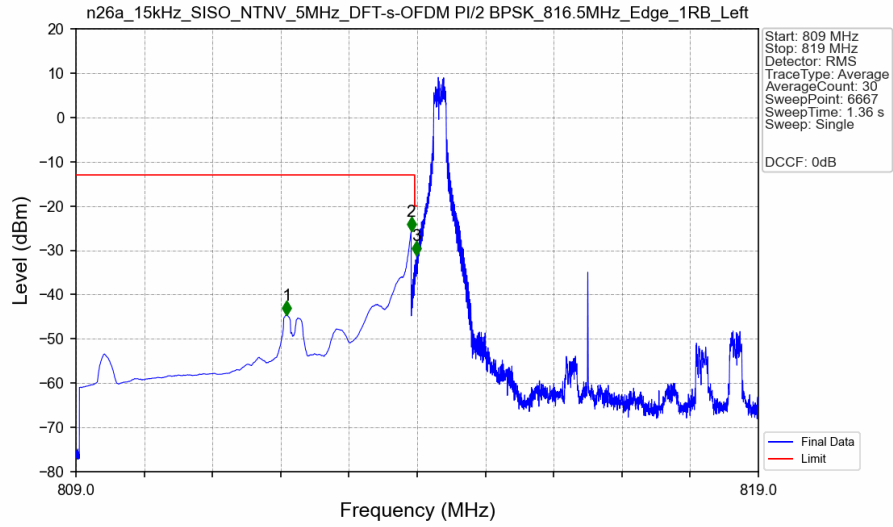
5G NR n26a SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant31	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
CP-OFDM QPSK	819	Edge_1RB_Left	Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass

5.2 Test Graph

5.2.1 15k_SISO_5MHz_NTNV

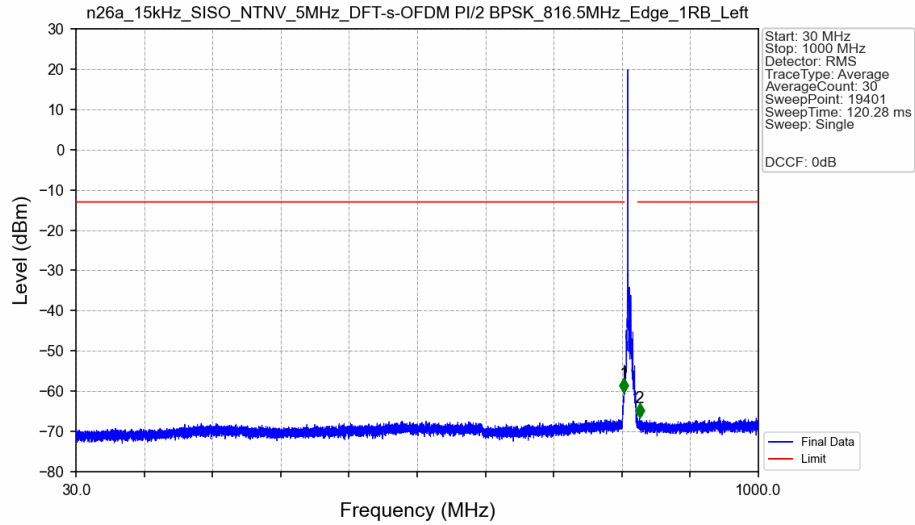


n26a 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 816.5MHz Edge 1RB Left Ant31



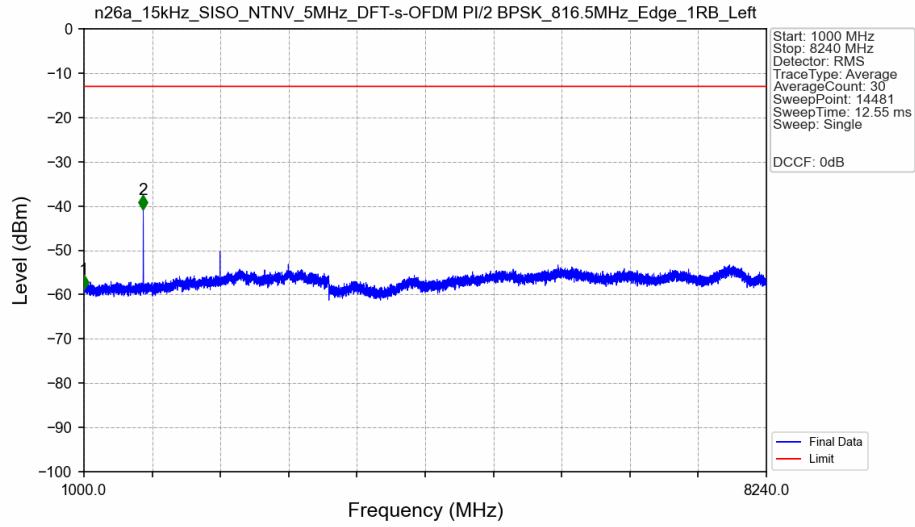
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.089	-44.66	-13	Pass
813	813.963	0.1	CHP	2	813.911	-25.66	-13	Pass
813.963	814	0.003	/	3	813.992	-31.19	-20	Pass
814	819	0.003	/	/	/	/	/	/

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 816.5MHz Edge 1RB Left Ant31



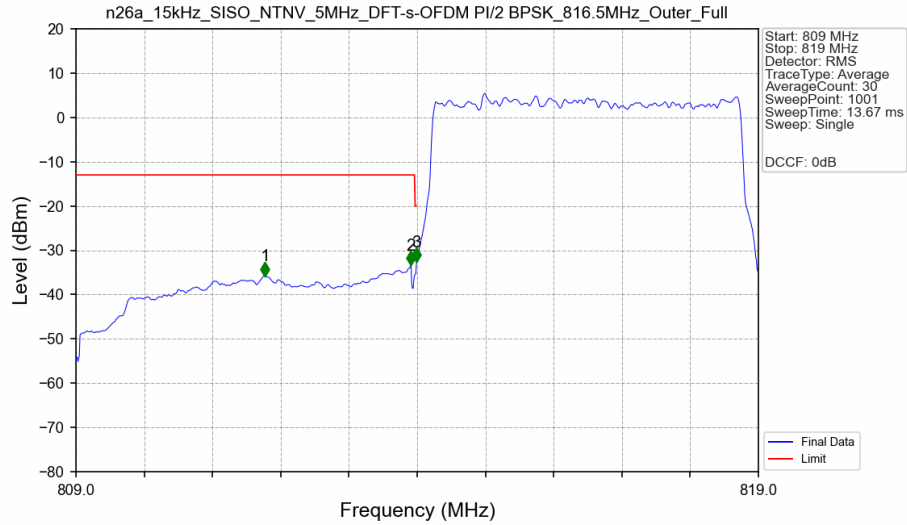
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.950	-60.28	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	831.050	-66.42	-13	Pass

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 816.5MHz Edge 1RB Left Ant31



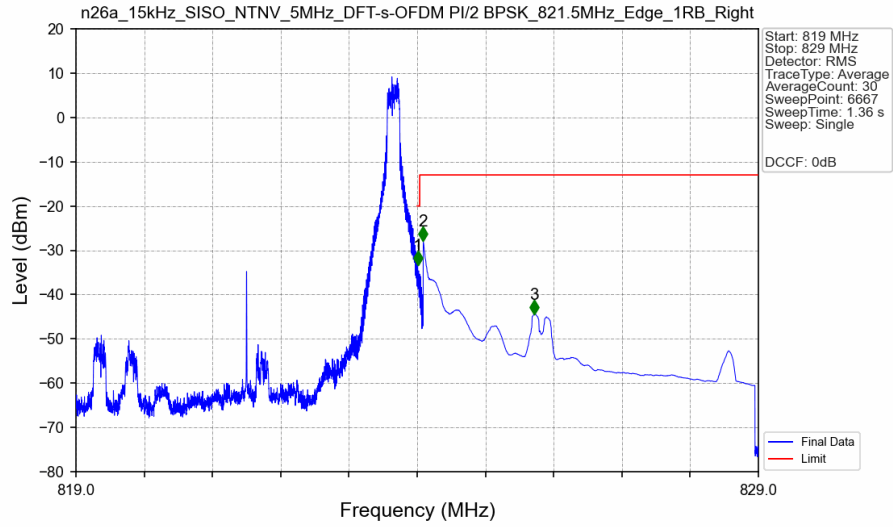
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-58.83	-13	Pass
1000	8240	1	/	2	1629.000	-40.83	-13	Pass

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 816.5MHz Outer Full Ant31



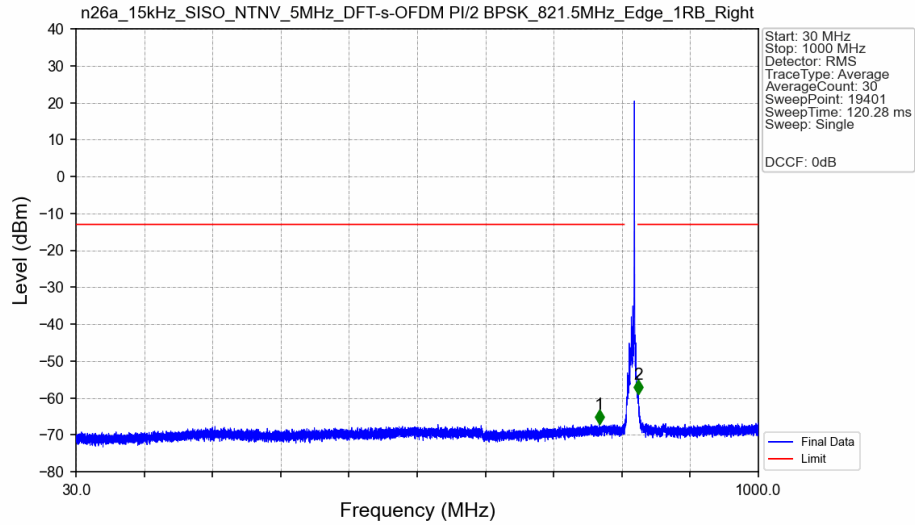
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	811.770	-35.77	-13	Pass
813	813.963	0.1	CHP	2	813.910	-33.32	-13	Pass
813.963	814	0.05013	CHP	3	813.990	-32.59	-20	Pass
814	819	0.05013	CHP	/	/	/	/	/

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_821.5MHz_Edge_1RB_Right_Ant31



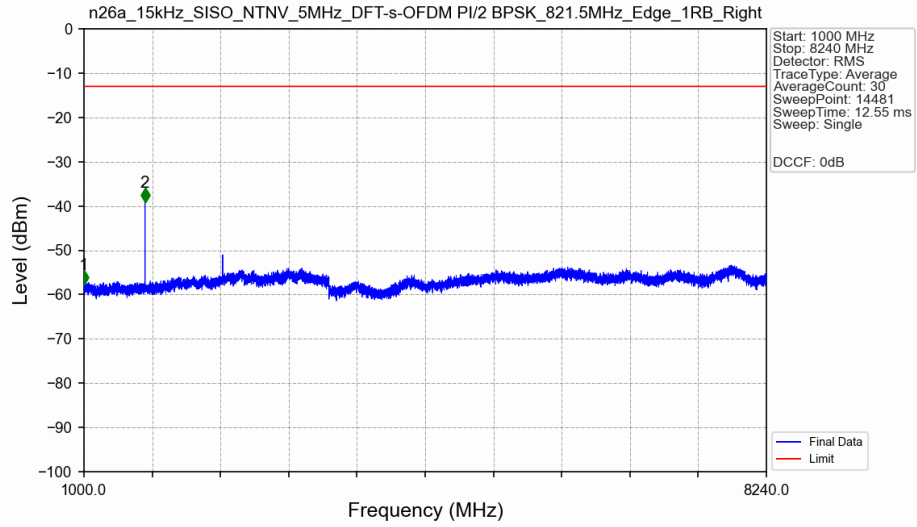
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.006	-33.27	-20	Pass
824.038	825	0.1	CHP	2	824.089	-27.89	-13	Pass
825	829	0.1	CHP	3	825.713	-44.44	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_821.5MHz_Edge_1RB_Right_Ant31

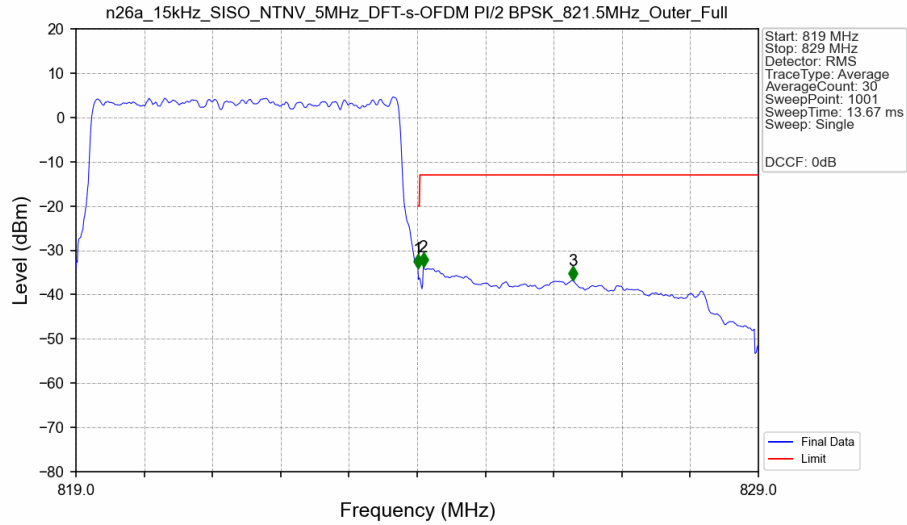


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	773.750	-67.10	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.250	-58.87	-13	Pass

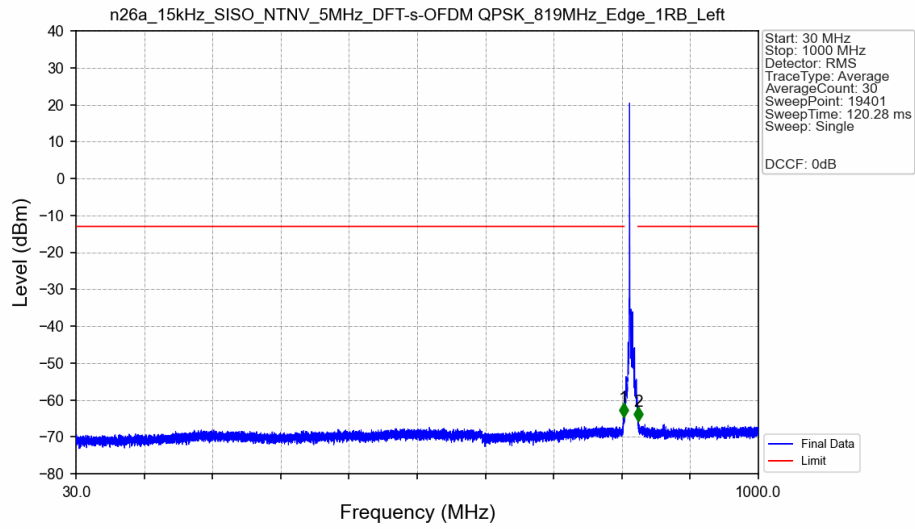
n26a 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 821.5MHz Edge 1RB Right Ant31



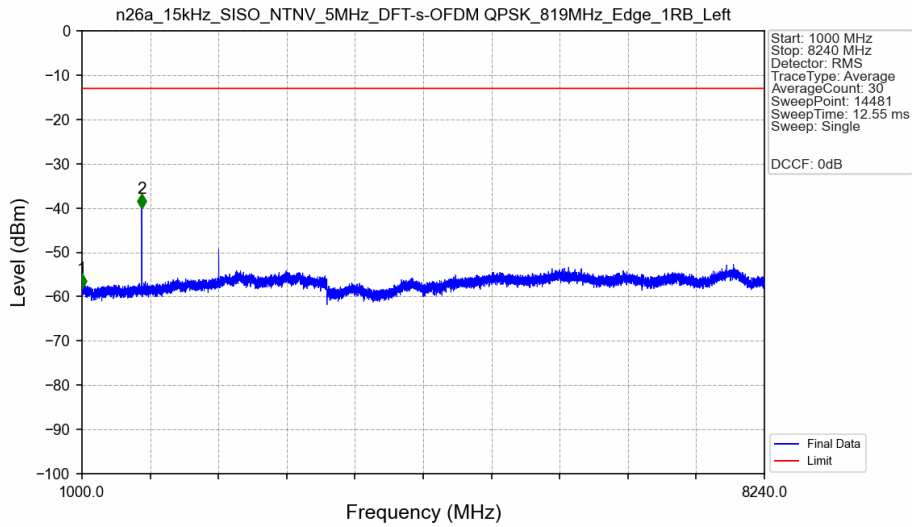
n26a 15kHz SISO NTN 5MHz DFT-s-OFDM PI/2 BPSK 821.5MHz Outer Full Ant31



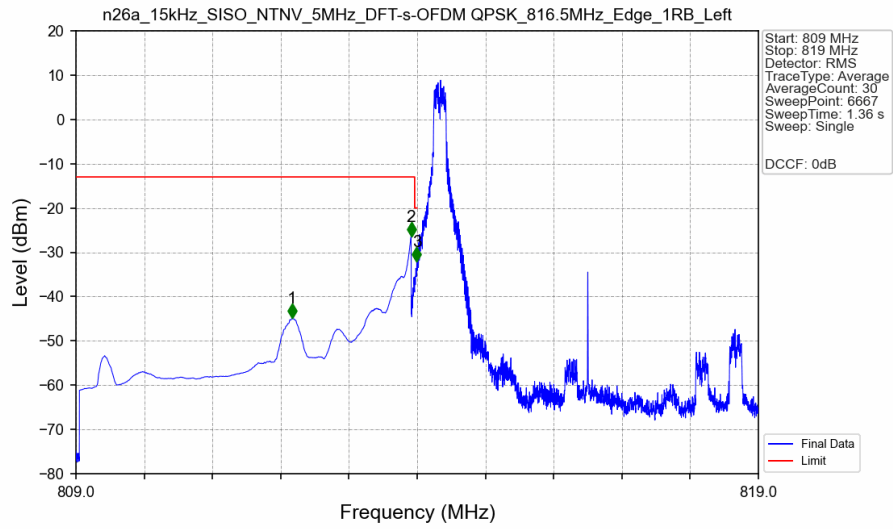
n26a 15kHz SISO NTNv 5MHz DFT-s-OFDM QPSK 819MHz Edge 1RB Left Ant31



n26a 15kHz SISO NTNv 5MHz DFT-s-OFDM QPSK 819MHz Edge 1RB Left Ant31

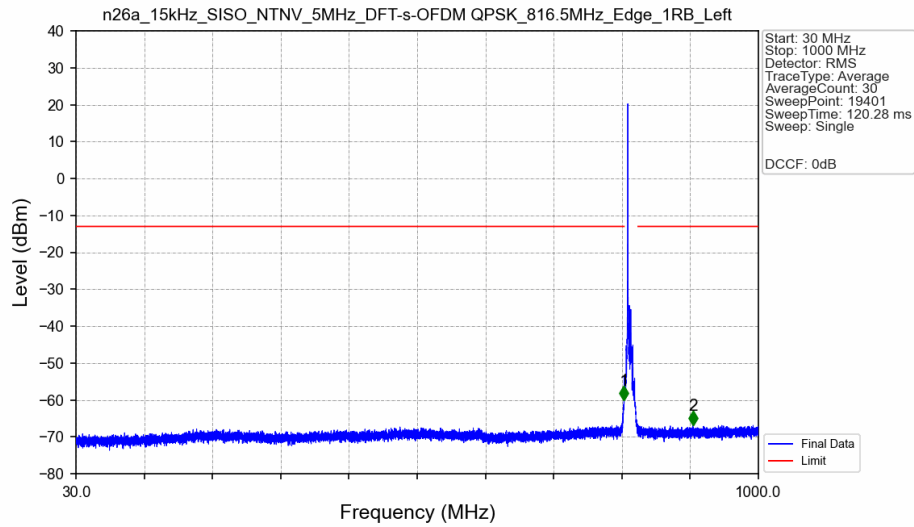


n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant31



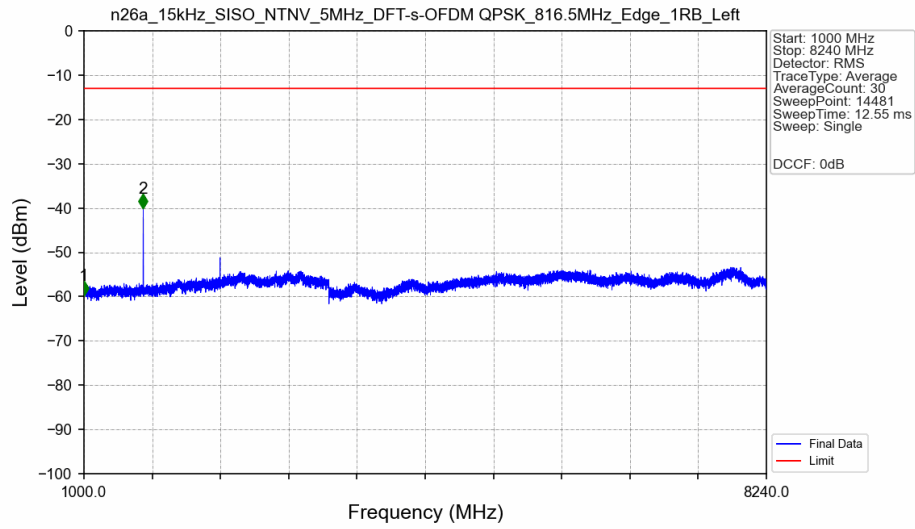
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.167	-44.83	-13	Pass
813	813.963	0.1	CHP	2	813.911	-26.33	-13	Pass
813.963	814	0.003	/	3	813.994	-32.03	-20	Pass
814	819	0.003	/	/	/	/	/	/

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant31



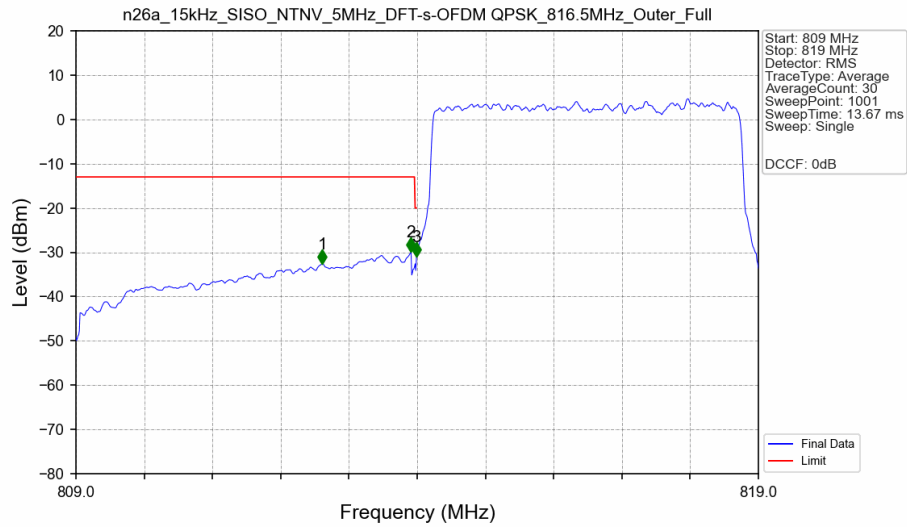
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.950	-60.09	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	906.800	-66.74	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant31



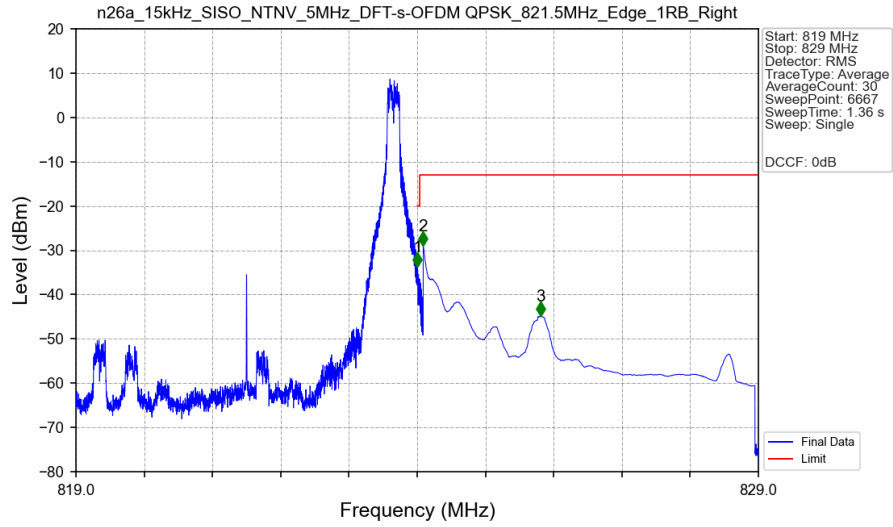
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-59.64	-13	Pass
1000	8240	1	/	2	1629.000	-40.04	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_816.5MHz_Outer_Full_Ant31



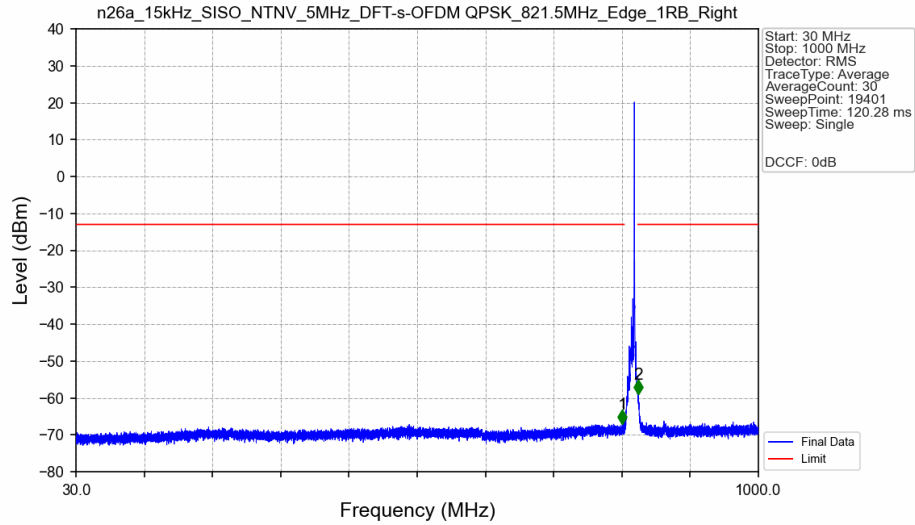
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.610	-32.50	-13	Pass
813	813.963	0.1	CHP	2	813.910	-29.94	-13	Pass
813.963	814	0.05013	CHP	3	813.990	-30.96	-20	Pass
814	819	0.05013	CHP	/	/	/	/	/

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 821.5MHz Edge 1RB Right Ant31



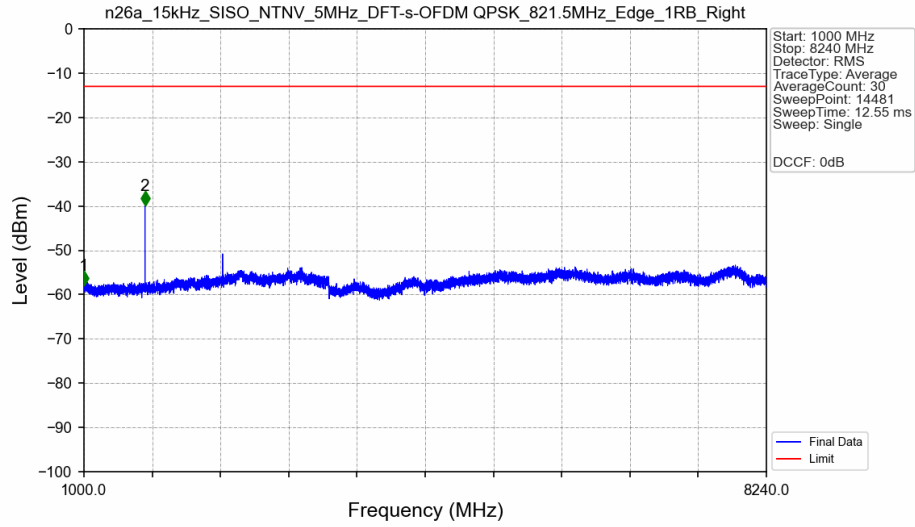
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.005	-33.64	-20	Pass
824.038	825	0.1	CHP	2	824.089	-29.00	-13	Pass
825	829	0.1	CHP	3	825.806	-44.75	-13	Pass

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 821.5MHz Edge 1RB Right Ant31



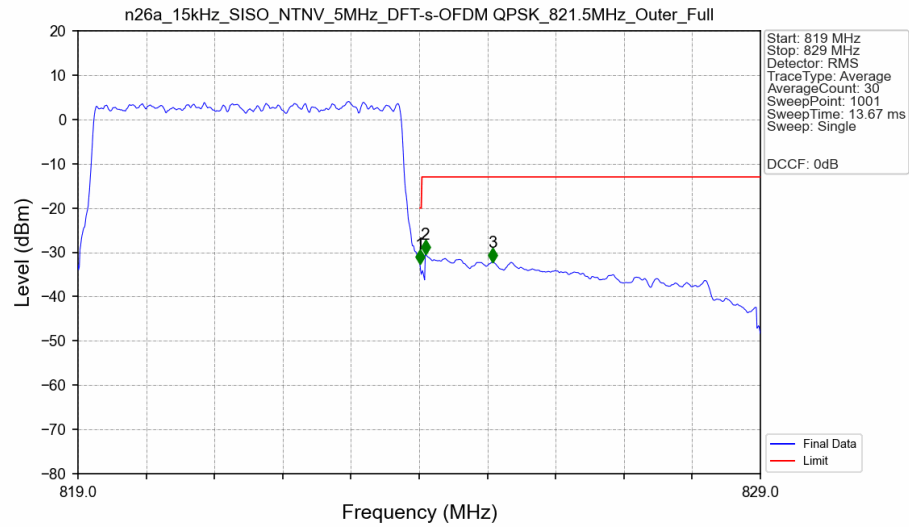
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	806.700	-67.06	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.300	-58.91	-13	Pass

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 821.5MHz Edge 1RB Right Ant31



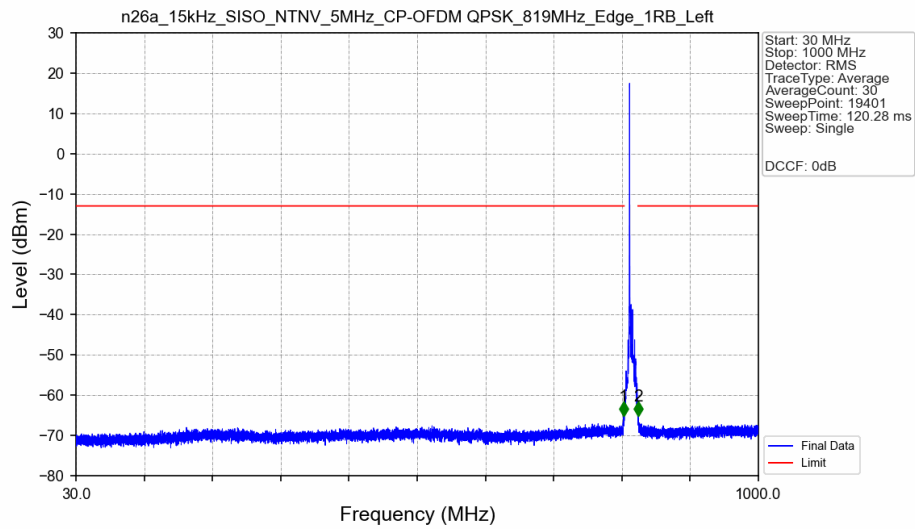
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-57.78	-13	Pass
1000	8240	1	/	2	1647.500	-39.82	-13	Pass

n26a 15kHz SISO NTN 5MHz DFT-s-OFDM QPSK 821.5MHz Outer Full Ant31

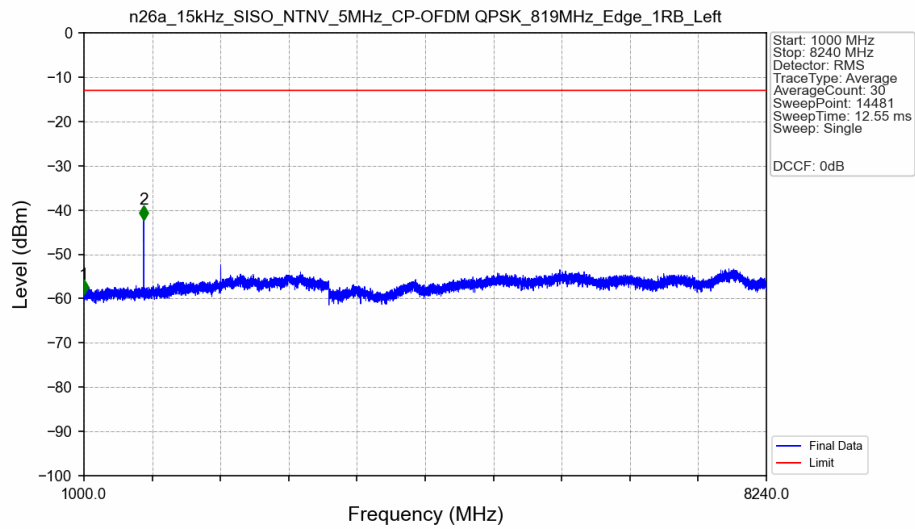


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.05012	CHP	/	/	/	/	/
824	824.038	0.05012	CHP	1	824.010	-32.53	-20	Pass
824.038	825	0.1	CHP	2	824.090	-30.41	-13	Pass
825	829	0.1	CHP	3	825.080	-32.19	-13	Pass

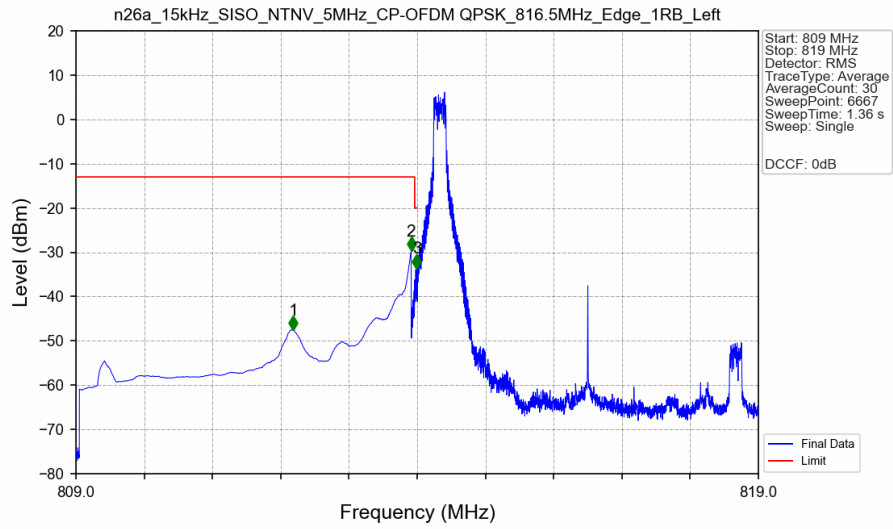
n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_819MHz_Edge_1RB_Left_Ant31



n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_819MHz_Edge_1RB_Left_Ant31

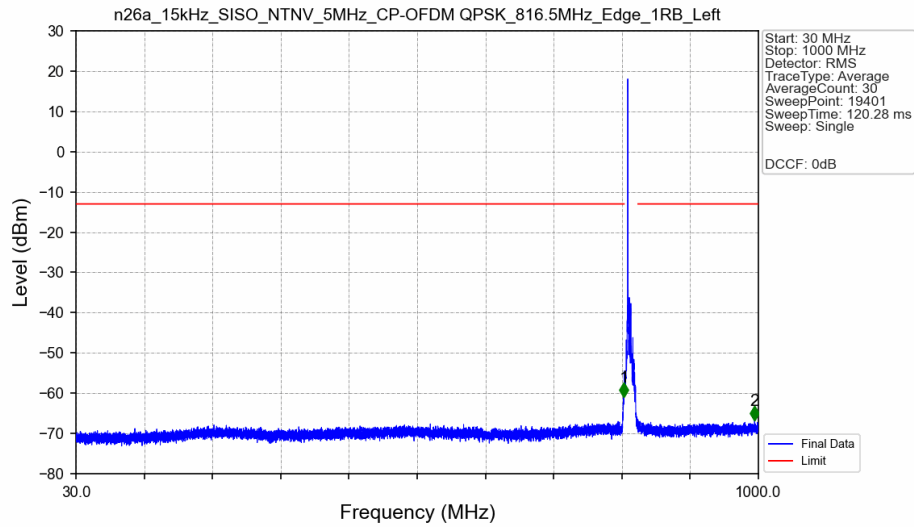


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant31



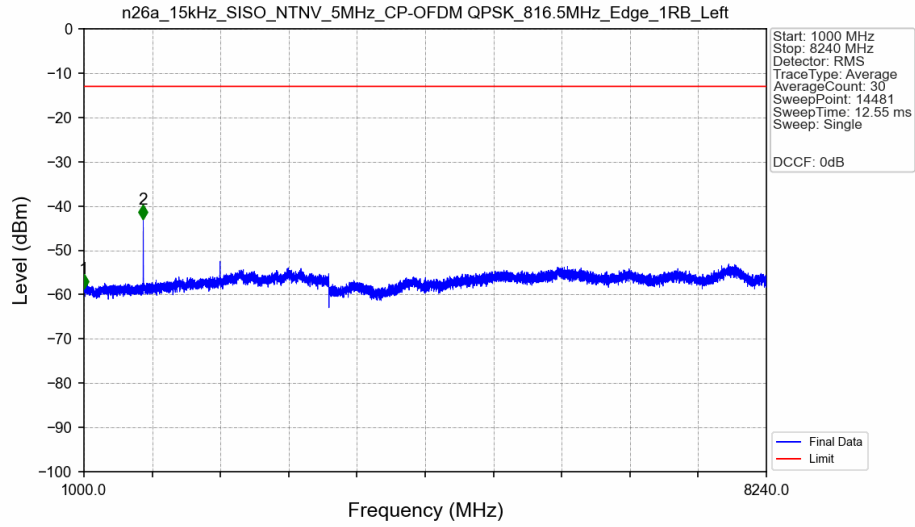
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.183	-47.45	-13	Pass
813	813.963	0.1	CHP	2	813.911	-29.72	-13	Pass
813.963	814	0.003	/	3	813.994	-33.59	-20	Pass
814	819	0.003	/	/	/	/	/	/

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant31

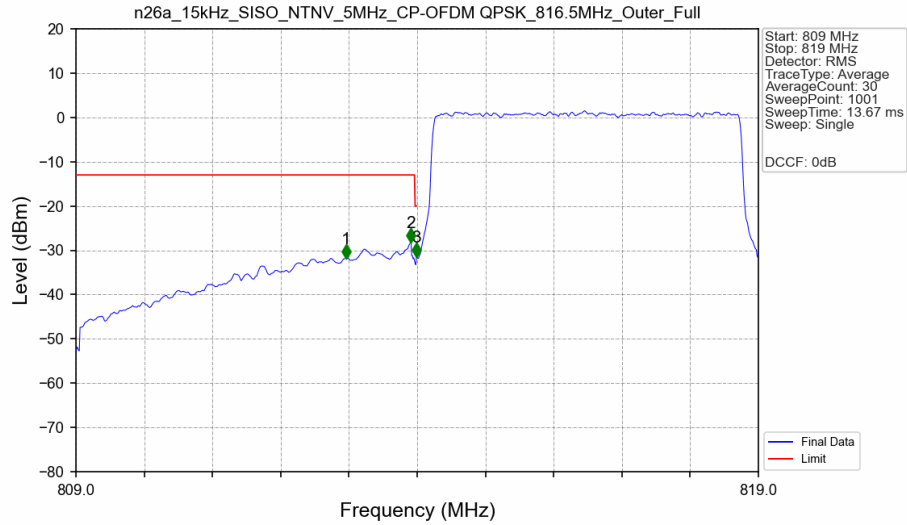


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.650	-60.96	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	994.550	-66.70	-13	Pass

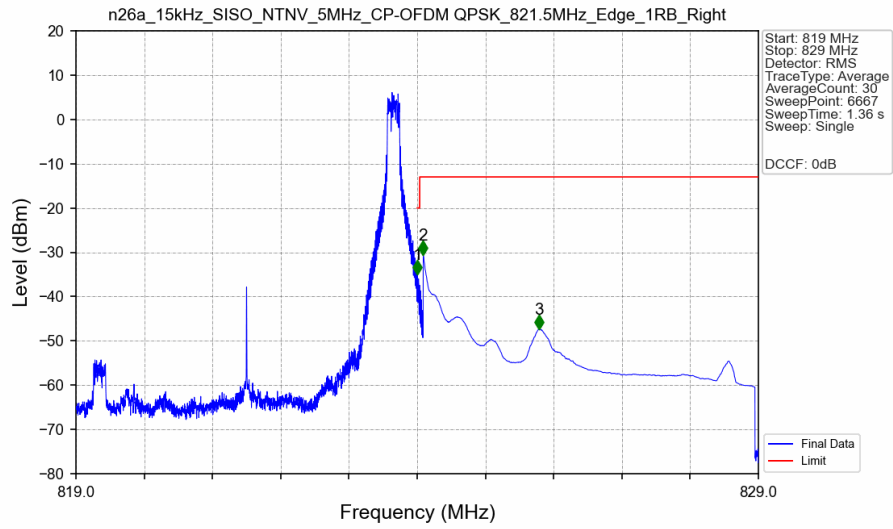
n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_816.5MHz_Edge_1RB_Left_Ant31



n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_816.5MHz_Outer_Full_Ant31

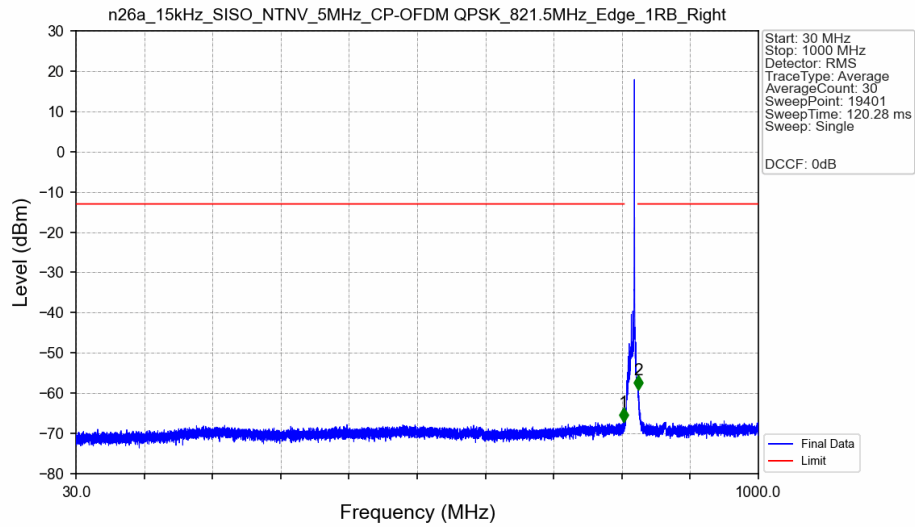


n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant31



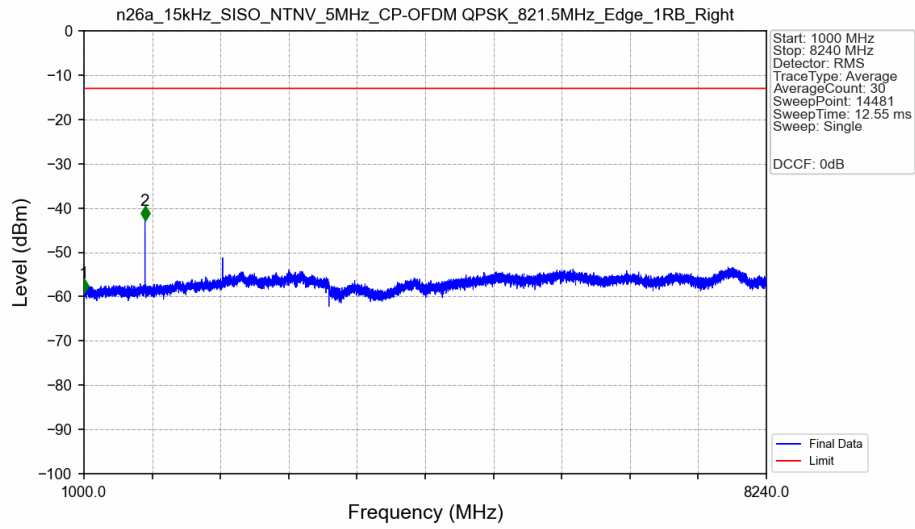
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.005	-34.93	-20	Pass
824.038	825	0.1	CHP	2	824.089	-30.60	-13	Pass
825	829	0.1	CHP	3	825.790	-47.36	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant31



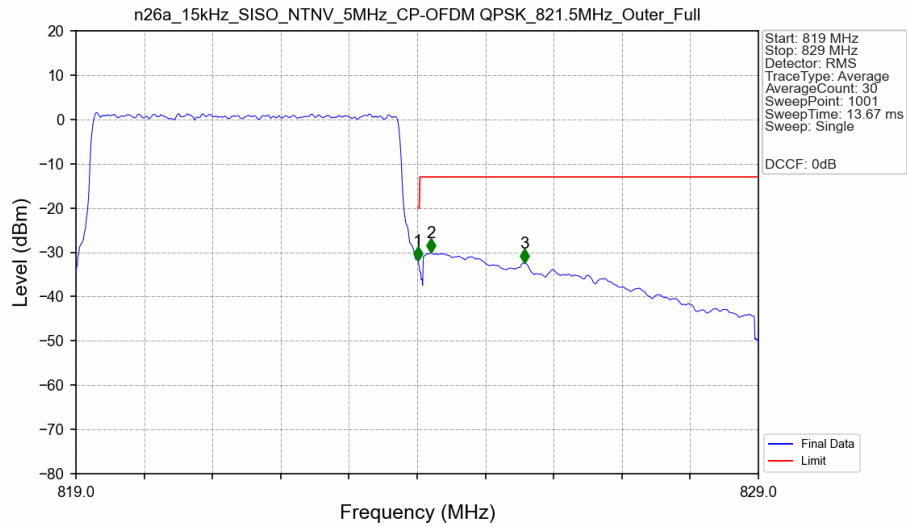
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	814	0.1	/	1	808.100	-67.12	-13	Pass
814	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.100	-59.19	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Edge_1RB_Right_Ant31



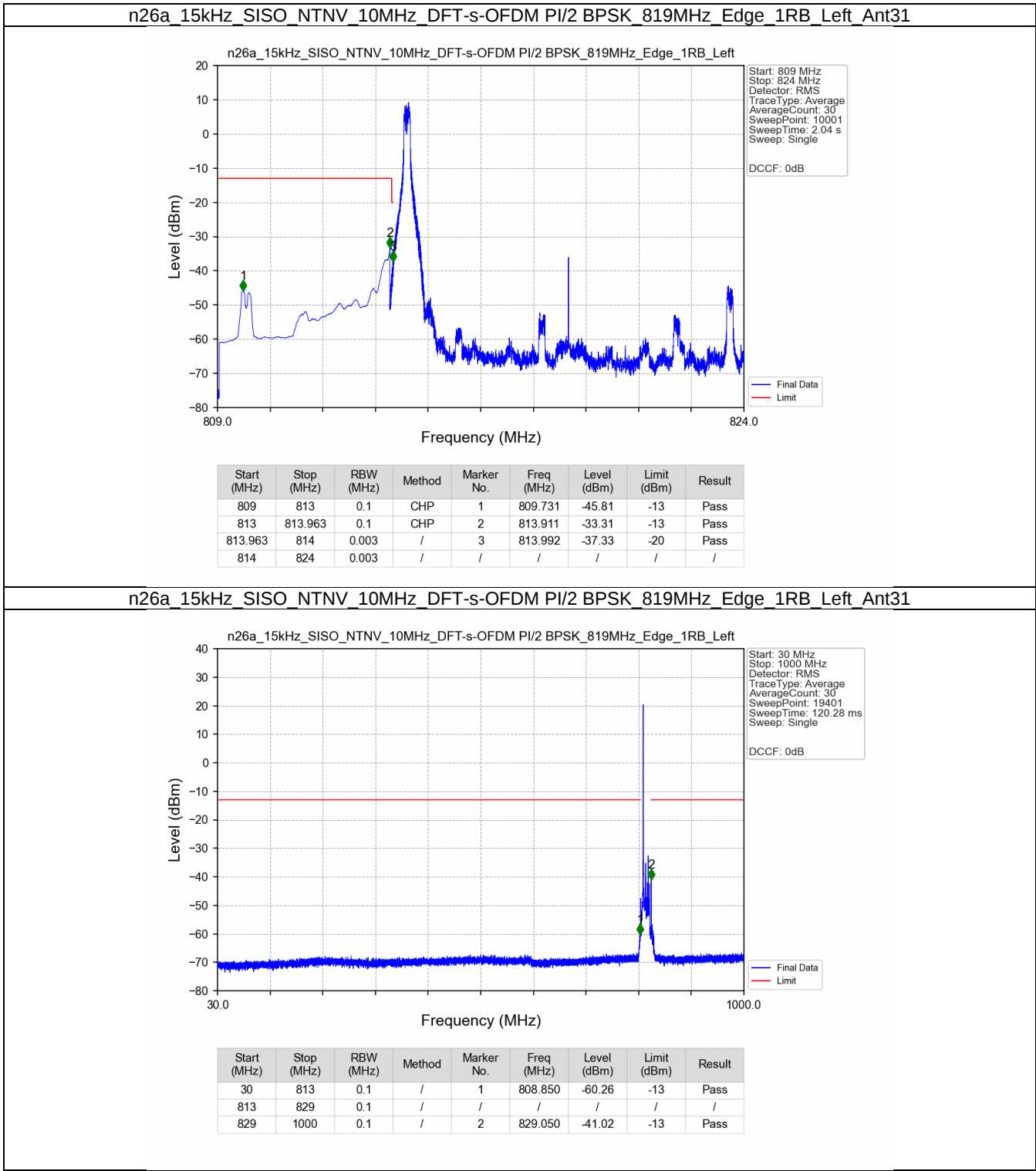
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-59.22	-13	Pass
1000	8240	1	/	2	1647.500	-42.80	-13	Pass

n26a_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_821.5MHz_Outer_Full_Ant31

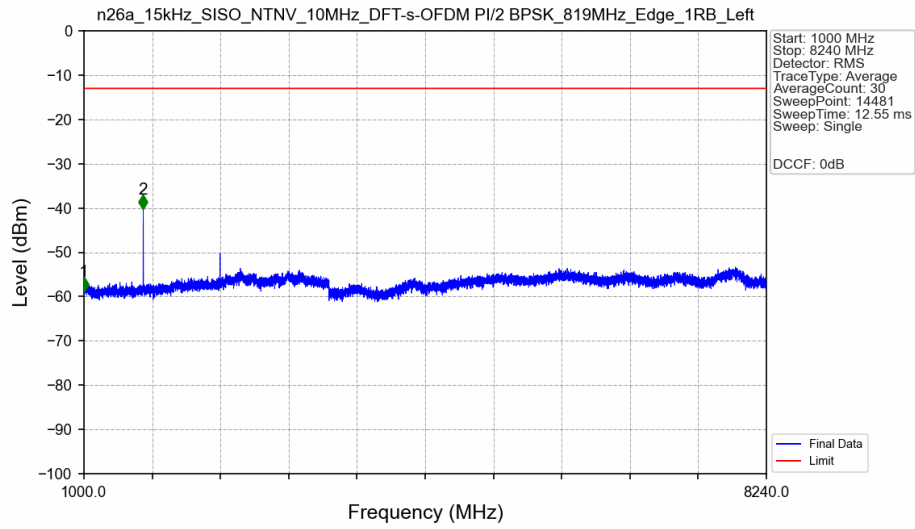


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.05012	CHP	/	/	/	/	/
824	824.038	0.05012	CHP	1	824.010	-31.81	-20	Pass
824.038	825	0.1	CHP	2	824.200	-30.07	-13	Pass
825	829	0.1	CHP	3	825.570	-32.37	-13	Pass

5.2.2 15k_SISO_10MHz_NTNV

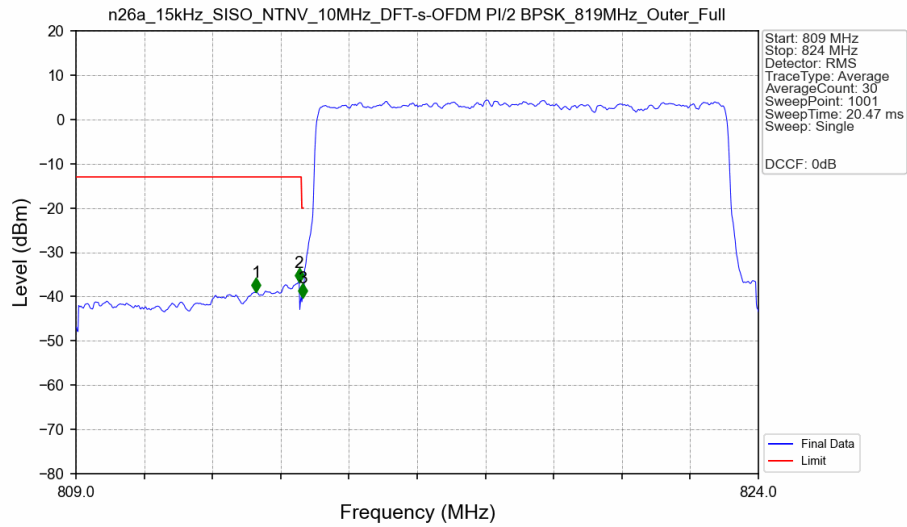


n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_819MHz_Edge_1RB_Left_Ant31



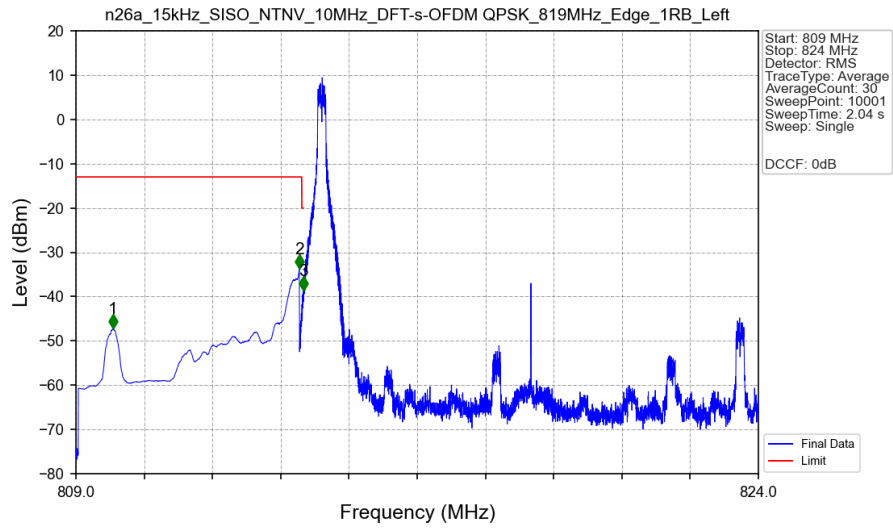
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-58.77	-13	Pass
1000	8240	1	/	2	1629.000	-40.12	-13	Pass

n26a_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_819MHz_Outer_Full_Ant31

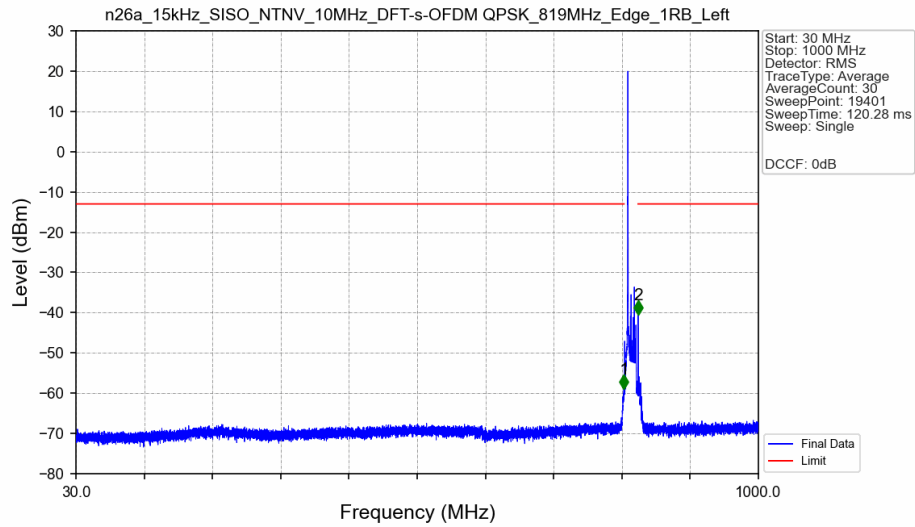


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.960	-39.02	-13	Pass
813	813.963	0.1	CHP	2	813.905	-36.74	-13	Pass
813.963	814	0.09718	CHP	3	813.980	-40.17	-20	Pass
814	824	0.09718	CHP	/	/	/	/	/

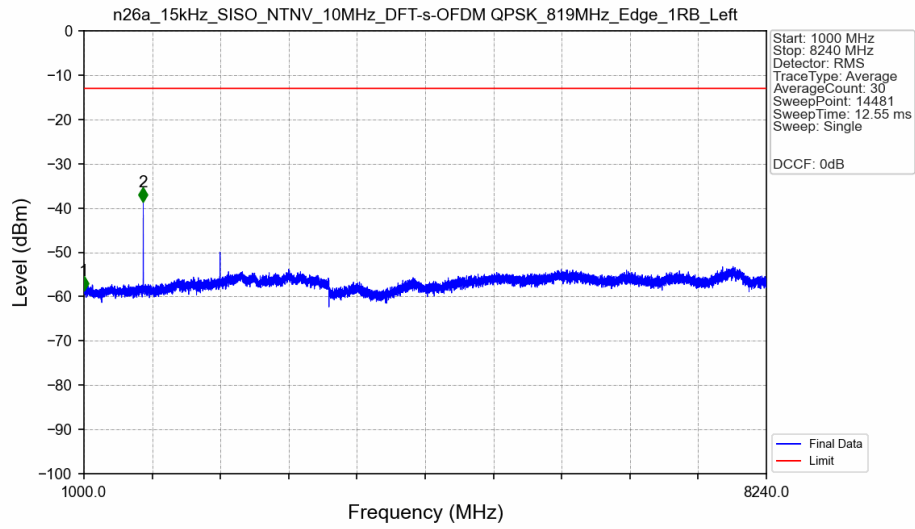
n26a 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 819MHz Edge 1RB Left Ant31



n26a 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 819MHz Edge 1RB Left Ant31

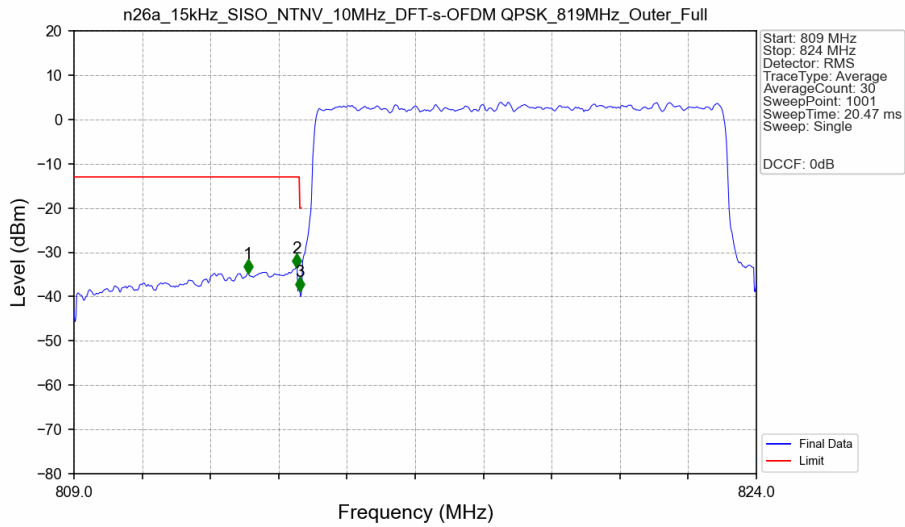


n26a 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 819MHz Edge 1RB Left Ant31



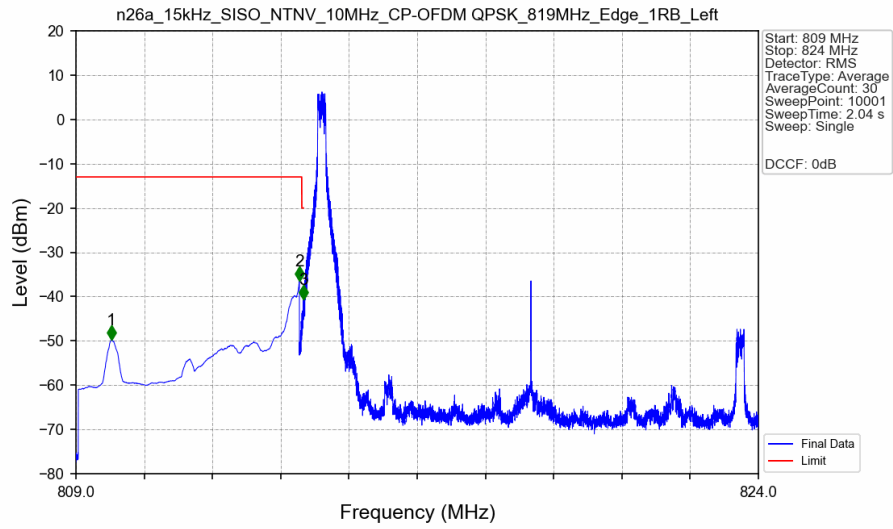
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-58.53	-13	Pass
1000	8240	1	/	2	1629.000	-38.56	-13	Pass

n26a 15kHz SISO NTN 10MHz DFT-s-OFDM QPSK 819MHz Outer Full Ant31



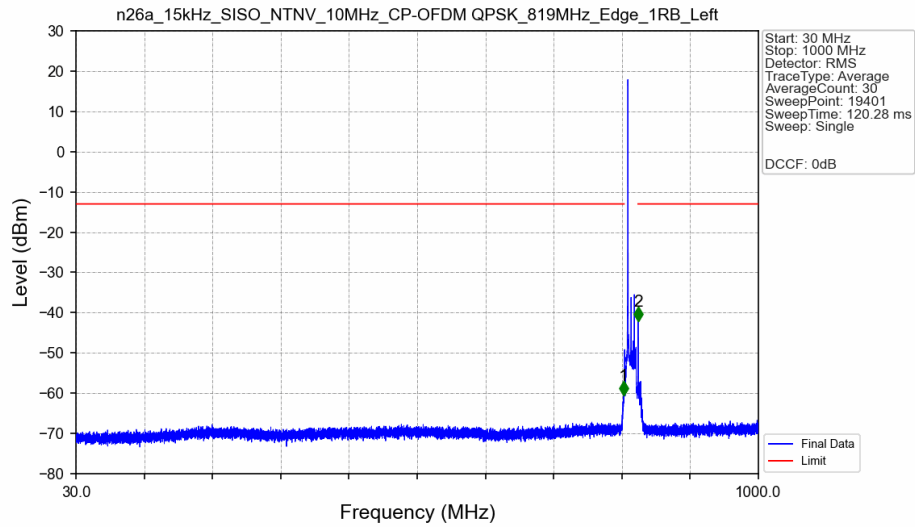
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.825	-34.74	-13	Pass
813	813.963	0.1	CHP	2	813.890	-33.46	-13	Pass
813.963	814	0.09719	CHP	3	813.965	-38.79	-20	Pass
814	824	0.09719	CHP	/	/	/	/	/

n26a 15kHz SISO NTN 10MHz CP-OFDM QPSK 819MHz Edge 1RB Left Ant31



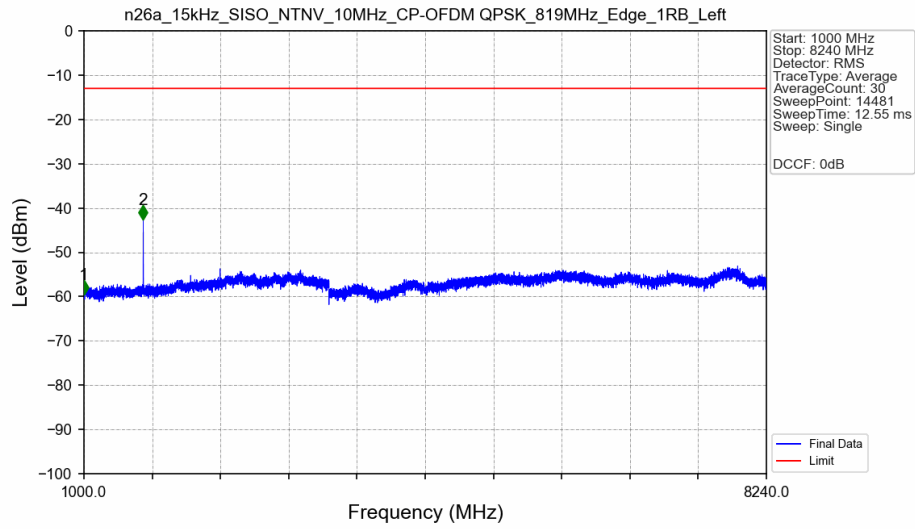
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	809.774	-49.74	-13	Pass
813	813.963	0.1	CHP	2	813.911	-36.39	-13	Pass
813.963	814	0.003	/	3	813.994	-40.63	-20	Pass
814	824	0.003	/	/	/	/	/	/

n26a 15kHz SISO NTN 10MHz CP-OFDM QPSK 819MHz Edge 1RB Left Ant31



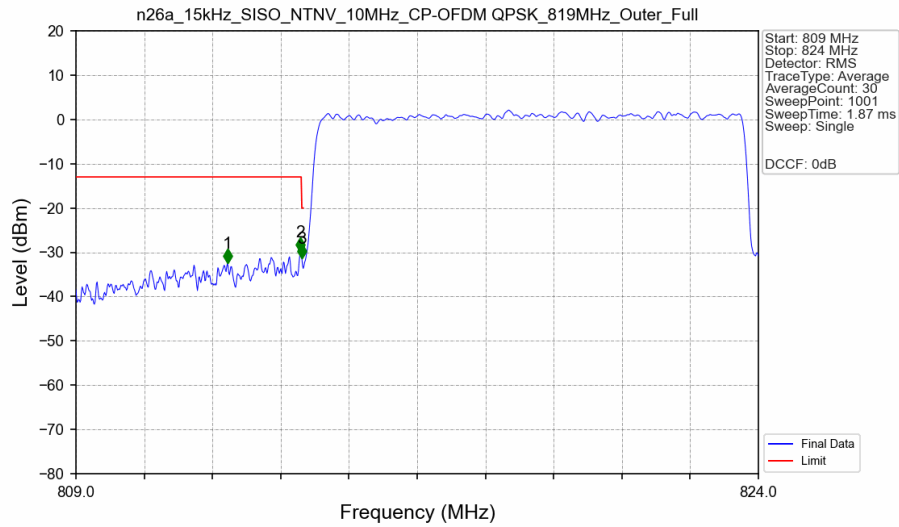
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	813	0.1	/	1	808.450	-60.55	-13	Pass
813	829	0.1	/	/	/	/	/	/
829	1000	0.1	/	2	829.050	-42.04	-13	Pass

n26a 15kHz SISO NTN 10MHz CP-OFDM QPSK 819MHz Edge 1RB Left Ant31



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	1000	1	/	1	1000.000	-59.46	-13	Pass
1000	8240	1	/	2	1629.000	-42.52	-13	Pass

n26a 15kHz SISO NTN 10MHz CP-OFDM QPSK 819MHz Outer Full Ant31



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	/	1	812.330	-32.46	-13	Pass
813	813.963	0.1	/	2	813.935	-29.88	-13	Pass
813.963	814	0.10828	/	3	813.965	-31.29	-20	Pass
814	824	0.10828	CHP	/	/	/	/	/

6. Field Strength of Spurious Radiation

NR N26a(814-824MHz) ANT31-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#1								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1629.0	-70.15	-13	-57.15	-73.08	2.62	5.55	Horizontal	Pass
2443.5	-66.87	-13	-53.87	-69.51	3.04	5.68	Horizontal	Pass
3258.0	-67.11	-13	-54.11	-71.39	3.28	7.56	Horizontal	Pass
1629.0	-69.88	-13	-56.88	-72.81	2.62	5.55	Vertical	Pass
2443.5	-61.17	-13	-48.17	-63.81	3.04	5.68	Vertical	Pass
3258.0	-67.03	-13	-54.03	-71.31	3.28	7.56	Vertical	Pass

NSA_7A_n26A 814-824-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-61.39	-25	-36.39	-66.97	4.59	10.17	Horizontal	Pass
7578.0	-51.03	-25	-26.03	-57.91	4.95	11.83	Horizontal	Pass
10104.0	-50.52	-25	-25.52	-58.09	5.48	13.05	Horizontal	Pass
5052.0	-50.79	-25	-25.79	-56.37	4.59	10.17	Vertical	Pass
7578.0	-45.84	-25	-20.84	-52.72	4.95	11.83	Vertical	Pass
10104.0	-49.91	-25	-24.91	-57.48	5.48	13.05	Vertical	Pass