1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B71_5MHz_ERP

Band: 71 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	665.5	1	0	21.59	-2.13	17.31	<=34.77	Pass
			13	21.54	-2.13	17.26	<=34.77	Pass
			24	21.49	-2.13	17.21	<=34.77	Pass
		12	0	20.71	-2.13	16.43	<=34.77	Pass
			6	20.64	-2.13	16.36	<=34.77	Pass
			13	20.59	-2.13	16.31	<=34.77	Pass
		25	0	20.92	-2.13	16.64	<=34.77	Pass
	680.5	1	0	22.00	-2.13	17.72	<=34.77	Pass
			13	21.99	-2.13	17.71	<=34.77	Pass
			24	21.96	-2.13	17.68	<=34.77	Pass
		12	0	20.91	-2.13	16.63	<=34.77	Pass
			6	20.87	-2.13	16.59	<=34.77	Pass
			13	20.82	-2.13	16.54	<=34.77	Pass
		25	0	21.08	-2.13	16.80	<=34.77	Pass
	695.5	1	0	21.94	-2.13	17.66	<=34.77	Pass
			13	21.96	-2.13	17.68	<=34.77	Pass
			24	21.90	-2.13	17.62	<=34.77	Pass
		12	0	20.99	-2.13	16.71	<=34.77	Pass
			6	20.89	-2.13	16.61	<=34.77	Pass
			13	20.88	-2.13	16.60	<=34.77	Pass
		25	0	21.16	-2.13	16.88	<=34.77	Pass
16QAM	665.5	1	0	20.70	-2.13	16.42	<=34.77	Pass
			13	20.77	-2.13	16.49	<=34.77	Pass
			24	20.69	-2.13	16.41	<=34.77	Pass
		12	0	20.04	-2.13	15.76	<=34.77	Pass
			6	20.05	-2.13	15.77	<=34.77	Pass
			13	20.00	-2.13	15.72	<=34.77	Pass
		25	0	19.93	-2.13	15.65	<=34.77	Pass
	680.5	1	0	20.33	-2.13	16.05	<=34.77	Pass
			13	20.30	-2.13	16.02	<=34.77	Pass
			24	20.23	-2.13	15.95	<=34.77	Pass
		12	0	20.16	-2.13	15.88	<=34.77	Pass
			6	20.16	-2.13	15.88	<=34.77	Pass
			13	20.06	-2.13	15.78	<=34.77	Pass
		25	0	20.20	-2.13	15.92	<=34.77	Pass
	695.5	1	0	20.84	-2.13	16.56	<=34.77	Pass
			13	20.80	-2.13	16.52	<=34.77	Pass
			24	20.76	-2.13	16.48	<=34.77	Pass
		12	0	20.22	-2.13	15.94	<=34.77	Pass
			6	20.12	-2.13	15.84	<=34.77	Pass
			13	20.10	-2.13	15.82	<=34.77	Pass
		25	0	20.15	-2.13	15.87	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B71_10MHz_ERP

Band: 71 / Bandwidth: 10MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	668	1	0	21.77	-2.13	17.49	<=34.77	Pass
			25	21.69	-2.13	17.41	<=34.77	Pass
			49	21.84	-2.13	17.56	<=34.77	Pass
		25	0	20.83	-2.13	16.55	<=34.77	Pass
			13	20.76	-2.13	16.48	<=34.77	Pass
			25	20.80	-2.13	16.52	<=34.77	Pass
		50	0	20.93	-2.13	16.65	<=34.77	Pass
	680.5	1	0	21.81	-2.13	17.53	<=34.77	Pass
			25	21.91	-2.13	17.63	<=34.77	Pass
			49	21.99	-2.13	17.71	<=34.77	Pass
		25	0	21.03	-2.13	16.75	<=34.77	Pass
			13	20.95	-2.13	16.67	<=34.77	Pass
			25	20.95	-2.13	16.67	<=34.77	Pass
		50	0	21.15	-2.13	16.87	<=34.77	Pass
	693	1	0	22.03	-2.13	17.75	<=34.77	Pass
			25	22.04	-2.13	17.76	<=34.77	Pass
			49	22.05	-2.13	17.77	<=34.77	Pass
		25	0	21.03	-2.13	16.75	<=34.77	Pass
			13	21.01	-2.13	16.73	<=34.77	Pass
			25	21.07	-2.13	16.79	<=34.77	Pass
		50	0	21.18	-2.13	16.90	<=34.77	Pass
16QAM	668	1	0	20.88	-2.13	16.60	<=34.77	Pass
			25	20.72	-2.13	16.44	<=34.77	Pass
			49	20.86	-2.13	16.58	<=34.77	Pass
		25	0	20.11	-2.13	15.83	<=34.77	Pass
			13	20.03	-2.13	15.75	<=34.77	Pass
			25	20.25	-2.13	15.97	<=34.77	Pass
		50	0	19.98	-2.13	15.70	<=34.77	Pass
	680.5	1	0	21.93	-2.13	17.65	<=34.77	Pass
			25	21.91	-2.13	17.63	<=34.77	Pass
			49	21.99	-2.13	17.71	<=34.77	Pass
		25	0	20.18	-2.13	15.90	<=34.77	Pass
			13	20.12	-2.13	15.84	<=34.77	Pass
			25	20.13	-2.13	15.85	<=34.77	Pass
		50	0	20.12	-2.13	15.84	<=34.77	Pass
	693	1	0	21.46	-2.13	17.18	<=34.77	Pass
			25	21.38	-2.13	17.10	<=34.77	Pass
			49	21.38	-2.13	17.10	<=34.77	Pass
		25	0	20.19	-2.13	15.91	<=34.77	Pass
			13	20.18	-2.13	15.90	<=34.77	Pass
			25	20.25	-2.13	15.97	<=34.77	Pass
		50	0	20.18	-2.13	15.90	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B71_15MHz_ERP

Band: 71 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	670.5	1	0	22.05	-2.13	17.77	<=34.77	Pass
			38	22.17	-2.13	17.89	<=34.77	Pass
			74	22.25	-2.13	17.97	<=34.77	Pass
		36	0	20.89	-2.13	16.61	<=34.77	Pass
			18	20.95	-2.13	16.67	<=34.77	Pass
			39	21.18	-2.13	16.90	<=34.77	Pass

		75	0	20.94	-2.13	16.66	<=34.77	Pass
	680.5	1	0	21.98	-2.13	17.70	<=34.77	Pass
			38	22.11	-2.13	17.83	<=34.77	Pass
			74	22.14	-2.13	17.86	<=34.77	Pass
		36	0	21.06	-2.13	16.78	<=34.77	Pass
			18	21.09	-2.13	16.81	<=34.77	Pass
			39	21.12	-2.13	16.84	<=34.77	Pass
		75	0	21.12	-2.13	16.84	<=34.77	Pass
	690.5	1	0	22.02	-2.13	17.74	<=34.77	Pass
			38	22.12	-2.13	17.84	<=34.77	Pass
			74	22.15	-2.13	17.87	<=34.77	Pass
		36	0	21.13	-2.13	16.85	<=34.77	Pass
			18	21.19	-2.13	16.91	<=34.77	Pass
			39	21.27	-2.13	16.99	<=34.77	Pass
		75	0	21.23	-2.13	16.95	<=34.77	Pass
16QAM	670.5	1	0	21.20	-2.13	16.92	<=34.77	Pass
			38	21.21	-2.13	16.93	<=34.77	Pass
			74	21.39	-2.13	17.11	<=34.77	Pass
		36	0	19.89	-2.13	15.61	<=34.77	Pass
			18	20.08	-2.13	15.80	<=34.77	Pass
			39	20.14	-2.13	15.86	<=34.77	Pass
		75	0	20.06	-2.13	15.78	<=34.77	Pass
	680.5	1	0	21.43	-2.13	17.15	<=34.77	Pass
			38	21.42	-2.13	17.14	<=34.77	Pass
			74	21.48	-2.13	17.20	<=34.77	Pass
		36	0	20.08	-2.13	15.80	<=34.77	Pass
			18	20.18	-2.13	15.90	<=34.77	Pass
			39	20.26	-2.13	15.98	<=34.77	Pass
		75	0	20.18	-2.13	15.90	<=34.77	Pass
	690.5	1	0	21.55	-2.13	17.27	<=34.77	Pass
			38	21.65	-2.13	17.37	<=34.77	Pass
			74	21.59	-2.13	17.31	<=34.77	Pass
		36	0	20.20	-2.13	15.92	<=34.77	Pass
			18	20.22	-2.13	15.94	<=34.77	Pass
			39	20.34	-2.13	16.06	<=34.77	Pass
		75	0	20.15	-2.13	15.87	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B71_20MHz_ERP

Band: 71 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	673	1	0	21.84	-2.13	17.56	<=34.77	Pass
			50	21.85	-2.13	17.57	<=34.77	Pass
			99	22.09	-2.13	17.81	<=34.77	Pass
		50	0	20.91	-2.13	16.63	<=34.77	Pass
			25	20.92	-2.13	16.64	<=34.77	Pass
			50	21.13	-2.13	16.85	<=34.77	Pass
		100	0	20.93	-2.13	16.65	<=34.77	Pass
	683	1	0	22.05	-2.13	17.77	<=34.77	Pass
			50	22.14	-2.13	17.86	<=34.77	Pass
			99	22.26	-2.13	17.98	<=34.77	Pass
		50	0	21.15	-2.13	16.87	<=34.77	Pass
			25	21.13	-2.13	16.85	<=34.77	Pass
			50	21.17	-2.13	16.89	<=34.77	Pass
		100	0	21.12	-2.13	16.84	<=34.77	Pass

	688	1	0	22.09	-2.13	17.81	<=34.77	Pass
			50	22.08	-2.13	17.80	<=34.77	Pass
			99	22.24	-2.13	17.96	<=34.77	Pass
		50	0	21.17	-2.13	16.89	<=34.77	Pass
			25	21.16	-2.13	16.88	<=34.77	Pass
			50	21.25	-2.13	16.97	<=34.77	Pass
		100	0	21.12	-2.13	16.84	<=34.77	Pass
16QAM	673	1	0	20.73	-2.13	16.45	<=34.77	Pass
			50	20.73	-2.13	16.45	<=34.77	Pass
			99	20.92	-2.13	16.64	<=34.77	Pass
		50	0	20.19	-2.13	15.91	<=34.77	Pass
			25	20.09	-2.13	15.81	<=34.77	Pass
			50	20.15	-2.13	15.87	<=34.77	Pass
		100	0	20.05	-2.13	15.77	<=34.77	Pass
	683	1	0	21.74	-2.13	17.46	<=34.77	Pass
			50	21.75	-2.13	17.47	<=34.77	Pass
			99	21.94	-2.13	17.66	<=34.77	Pass
		50	0	20.19	-2.13	15.91	<=34.77	Pass
			25	20.11	-2.13	15.83	<=34.77	Pass
			50	20.28	-2.13	16.00	<=34.77	Pass
		100	0	20.15	-2.13	15.87	<=34.77	Pass
	688	1	0	21.45	-2.13	17.17	<=34.77	Pass
			50	21.43	-2.13	17.15	<=34.77	Pass
			99	21.53	-2.13	17.25	<=34.77	Pass
		50	0	20.30	-2.13	16.02	<=34.77	Pass
			25	20.28	-2.13	16.00	<=34.77	Pass
			50	20.28	-2.13	16.00	<=34.77	Pass
		100	0	20.15	-2.13	15.87	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B71_5MHz

Band: 71 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	665.5	25	0	20	3.27	0.787	0.0012	-2.5 to 2.5	Pass
					3.85	1.674	0.0025	-2.5 to 2.5	Pass
					4.43	0.744	0.0011	-2.5 to 2.5	Pass
				-30	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				10	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.300	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.529	-0.0008	-2.5 to 2.5	Pass
	680.5	25	0	20	3.27	0.157	0.0002	-2.5 to 2.5	Pass
					3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.129	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.000	0.0000	-2.5 to 2.5	Pass

				0	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				10	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.315	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
	695.5	25	0	20	3.27	-0.844	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.458	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
16QAM	665.5	25	0	20	3.27	-0.501	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.772	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-1.187	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-0.858	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.173	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.273	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-0.901	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.601	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.701	-0.0011	-2.5 to 2.5	Pass
	680.5	25	0	20	3.27	0.200	0.0003	-2.5 to 2.5	Pass
					3.85	0.944	0.0014	-2.5 to 2.5	Pass
					4.43	0.343	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.315	0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				40	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
	695.5	25	0	20	3.27	-0.801	-0.0012	-2.5 to 2.5	Pass
					3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.173	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-1.431	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-1.359	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-1.216	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.087	-0.0016	-2.5 to 2.5	Pass
				30	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass

2.1.2 B71_10MHz

Band: 71 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	668	50	0	20	3.27	-0.930	-0.0014	-2.5 to 2.5	Pass
					3.85	-1.230	-0.0018	-2.5 to 2.5	Pass

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					4.43	-0.787	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-1.459	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-0.386	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-0.844	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-1.345	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
	680.5	50	0	20	3.27	-1.001	-0.0015	-2.5 to 2.5	Pass
					3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
					4.43	-0.758	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
	693	50	0	20	3.27	-1.230	-0.0018	-2.5 to 2.5	Pass
					3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
					4.43	-1.502	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-1.230	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-0.944	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.702	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-1.559	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-2.418	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-1.674	-0.0024	-2.5 to 2.5	Pass
				50	3.85	-1.359	-0.0020	-2.5 to 2.5	Pass
16QAM	668	50	0	20	3.27	-1.059	-0.0016	-2.5 to 2.5	Pass
					3.85	-1.302	-0.0019	-2.5 to 2.5	Pass
					4.43	-1.416	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-0.772	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-1.216	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-0.844	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.372	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.130	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-1.087	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-0.944	-0.0014	-2.5 to 2.5	Pass
	680.5	50	0	20	3.27	0.772	0.0011	-2.5 to 2.5	Pass
					3.85	0.658	0.0010	-2.5 to 2.5	Pass
					4.43	0.358	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.172	0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				-10	3.85	0.572	0.0008	-2.5 to 2.5	Pass
				0	3.85	0.629	0.0009	-2.5 to 2.5	Pass
				10	3.85	0.501	0.0007	-2.5 to 2.5	Pass
				30	3.85	0.358	0.0005	-2.5 to 2.5	Pass
				40	3.85	0.529	0.0008	-2.5 to 2.5	Pass
				50	3.85	0.343	0.0005	-2.5 to 2.5	Pass
	693	50	0	20	3.27	-1.302	-0.0019	-2.5 to 2.5	Pass
					3.85	-1.373	-0.0020	-2.5 to 2.5	Pass
					4.43	-0.958	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass

				0	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.386	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass

2.1.3 B71_15MHz

Band: 71 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	670.5	75	0	20	3.27	-0.186	-0.0003	-2.5 to 2.5	Pass
					3.85	0.186	0.0003	-2.5 to 2.5	Pass
					4.43	-0.286	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.758	0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
	680.5	75	0	20	3.27	-0.043	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.172	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				0	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				10	3.85	0.186	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.172	-0.0003	-2.5 to 2.5	Pass
				50	3.85	0.129	0.0002	-2.5 to 2.5	Pass
	690.5	75	0	20	3.27	-1.645	-0.0024	-2.5 to 2.5	Pass
					3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
					4.43	-1.159	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-1.588	-0.0023	-2.5 to 2.5	Pass
				-20	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				-10	3.85	-1.287	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-1.788	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-1.574	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.388	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-0.944	-0.0014	-2.5 to 2.5	Pass
16QAM	670.5	75	0	20	3.27	0.000	0.0000	-2.5 to 2.5	Pass
					3.85	-0.243	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.401	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.515	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				40	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				50	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
	680.5	75	0	20	3.27	0.458	0.0007	-2.5 to 2.5	Pass
					3.85	0.086	0.0001	-2.5 to 2.5	Pass

					4.43	0.157	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				50	3.85	0.443	0.0007	-2.5 to 2.5	Pass
	690.5	75	0	20	3.27	-0.501	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
					4.43	-1.330	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-0.944	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-0.873	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass

2.1.4 B71_20MHz

Band: 71 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	673	100	0	20	3.27	-0.730	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.858	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.658	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.515	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-0.801	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.243	-0.0004	-2.5 to 2.5	Pass
				50	3.85	0.114	0.0002	-2.5 to 2.5	Pass
	683	100	0	20	3.27	-0.014	0.0000	-2.5 to 2.5	Pass
					3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
					4.43	-0.372	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.587	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.730	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.787	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.930	-0.0014	-2.5 to 2.5	Pass
	688	100	0	20	3.27	-0.486	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass

				40	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.529	-0.0008	-2.5 to 2.5	Pass
16QAM	673	100	0	20	3.27	-0.057	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.143	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	0.315	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.987	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-0.587	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.844	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
	683	100	0	20	3.27	-0.572	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
					4.43	-1.173	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-1.059	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.744	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				40	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.243	-0.0004	-2.5 to 2.5	Pass
	688	100	0	20	3.27	-0.343	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.300	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B71_5MHz

Band: 71 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	25	0	Refer To Test Graph		Pass
16QAM	680.5	25	0	Refer To Test Graph		Pass

3.1.2 B71_10MHz

Band: 71 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	50	0	Refer To Test Graph		Pass
16QAM	680.5	50	0	Refer To Test Graph		Pass

3.1.3 B71_15MHz

Band: 71 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	75	0	Refer To Test Graph		Pass
16QAM	680.5	75	0	Refer To Test Graph		Pass

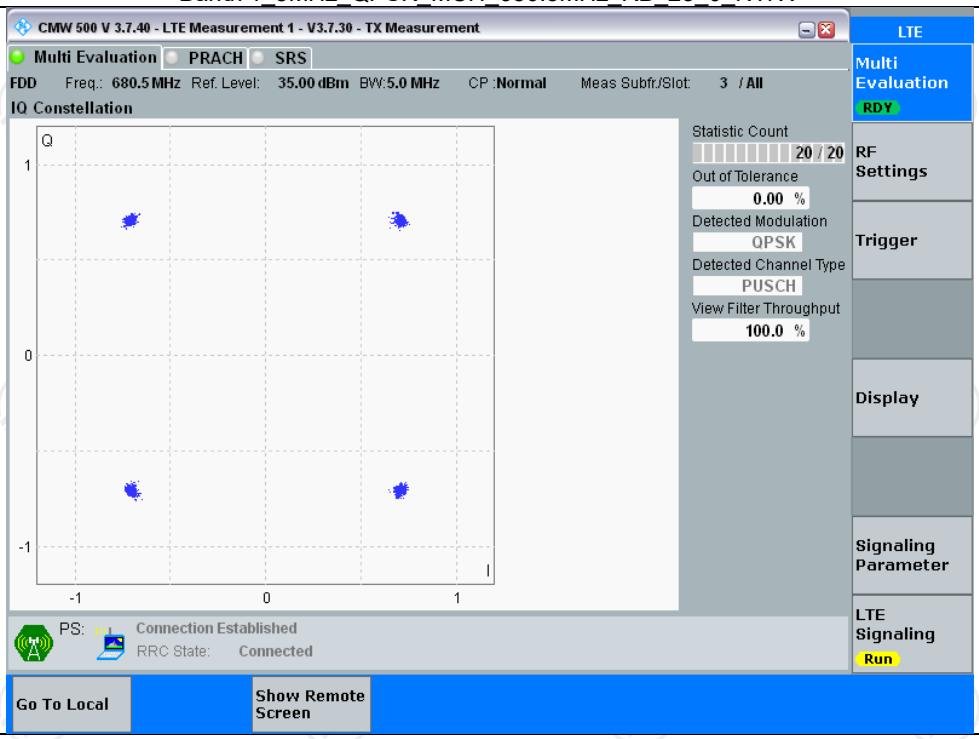
3.1.4 B71_20MHz

Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	683	100	0	Refer To Test Graph		Pass
16QAM	683	100	0	Refer To Test Graph		Pass

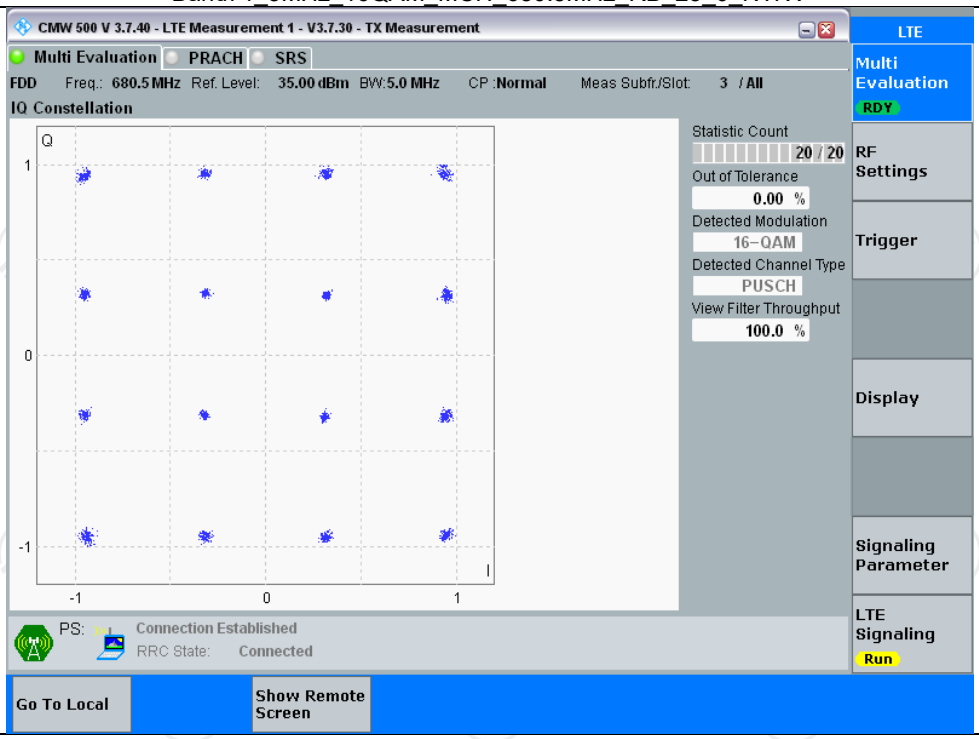
3.2 Test Graph

3.2.1 B71_5MHz

Band71_5MHz_QPSK_MCH_680.5MHz_RB_25_0_NTNV

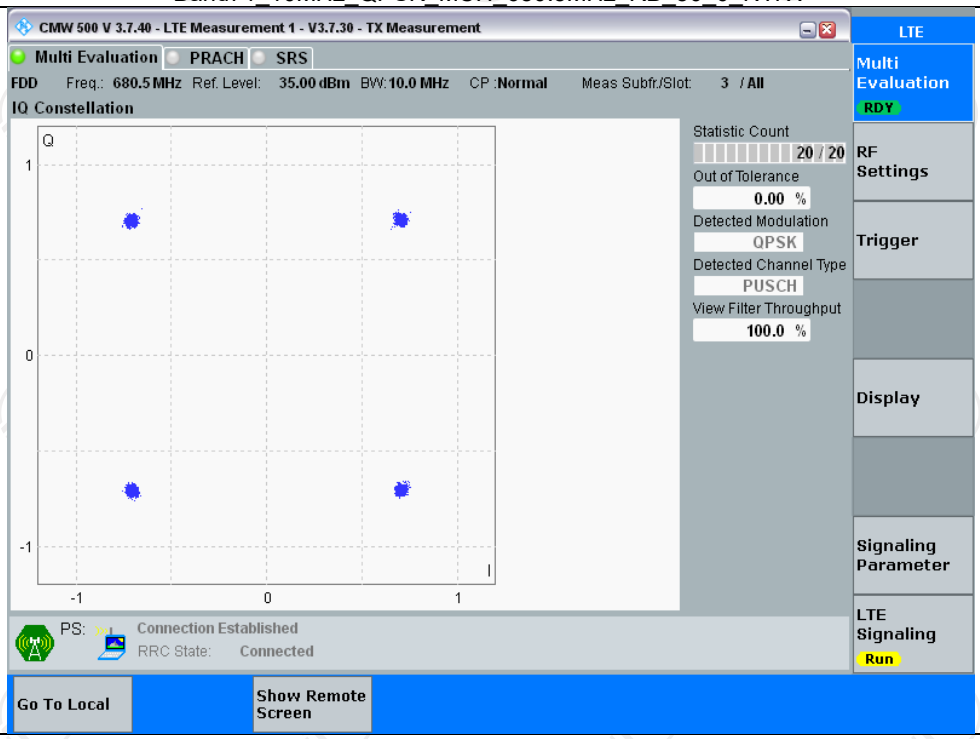


Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV

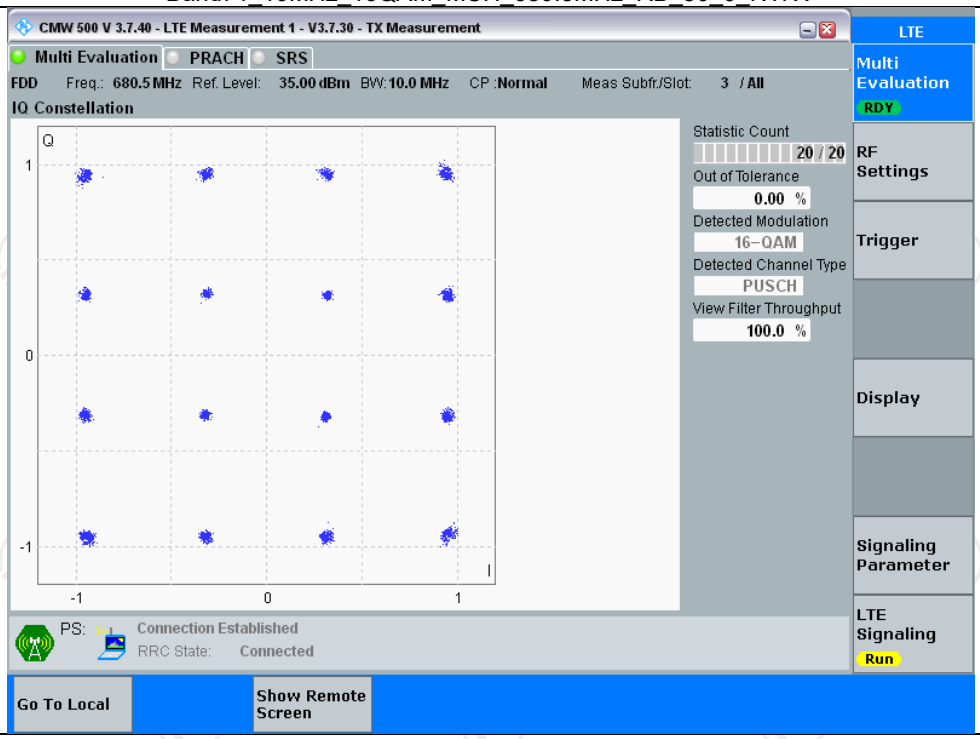


3.2.2 B71_10MHz

Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV

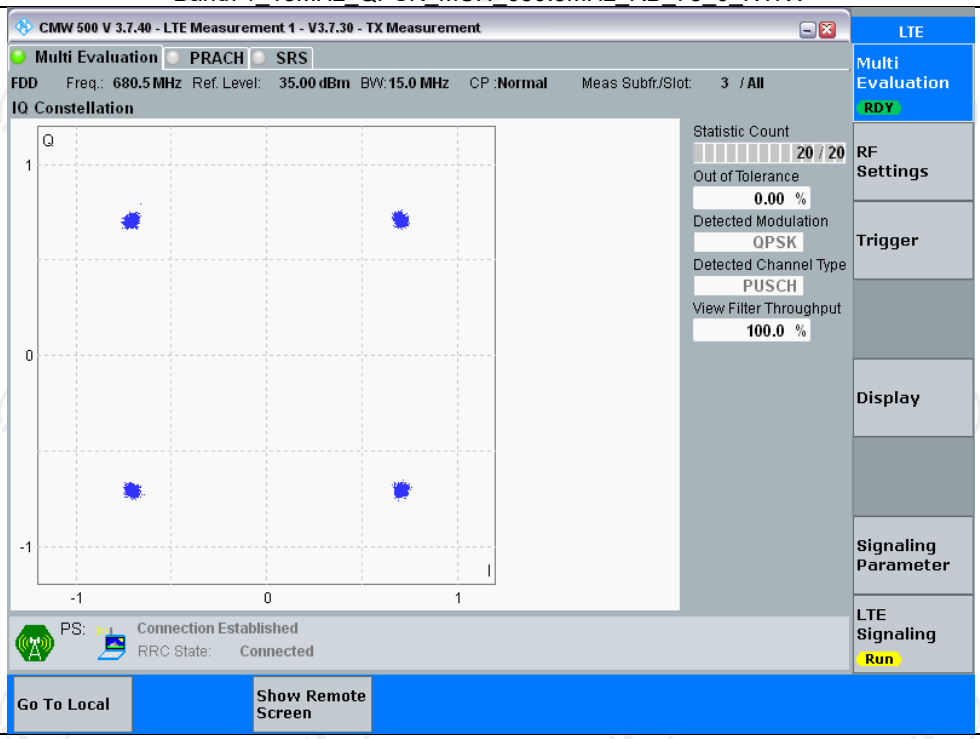


Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV

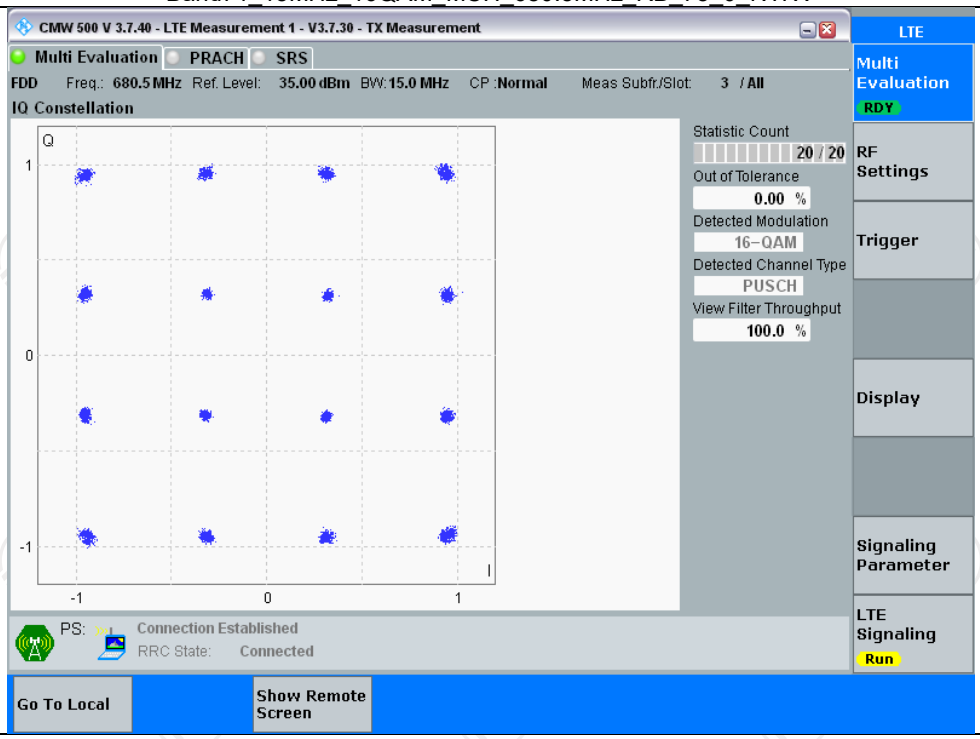


3.2.3 B71_15MHz

Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV

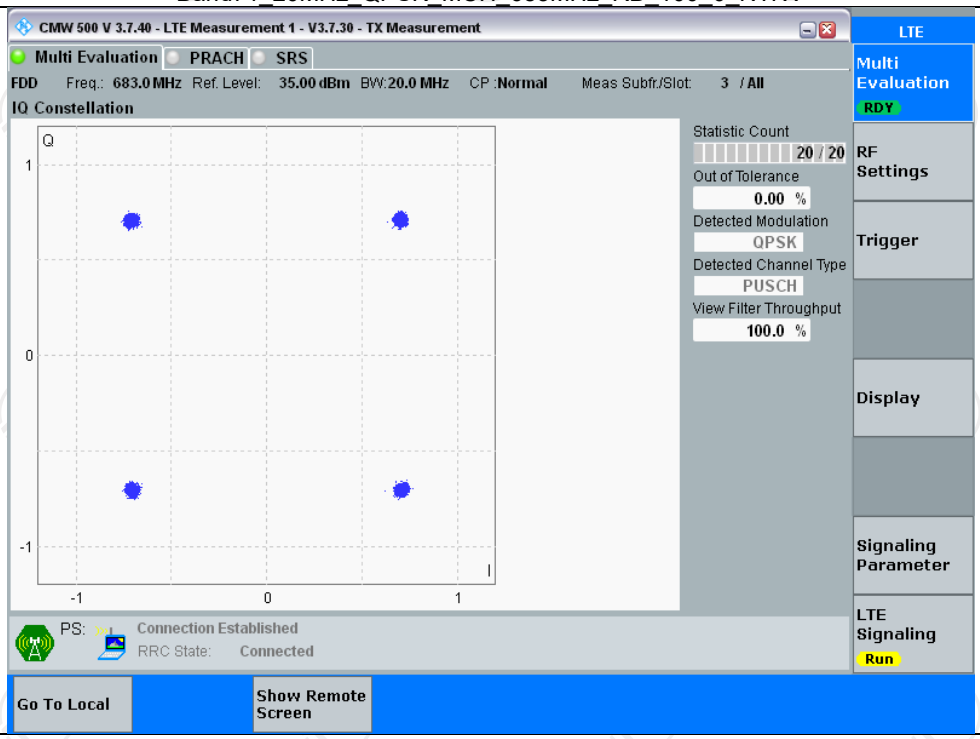


Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV

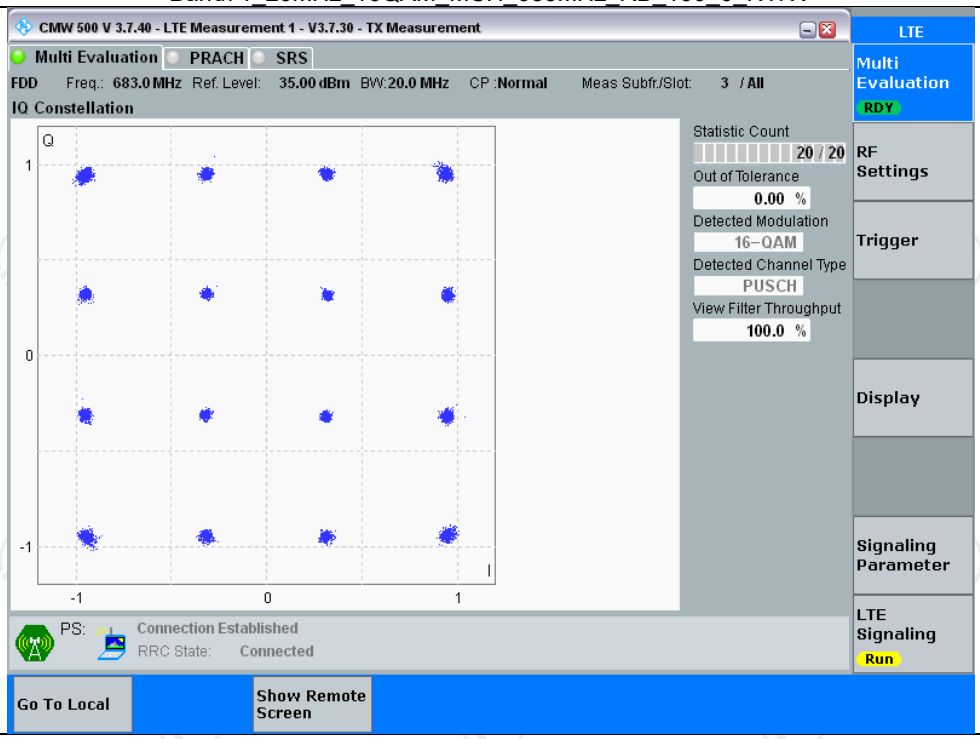


3.2.4 B71_20MHz

Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band71_OBW

Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	4.532	/	Pass
		680.5	25	0	4.564	/	Pass
		695.5	25	0	4.557	/	Pass
	16QAM	665.5	25	0	4.551	/	Pass
		680.5	25	0	4.544	/	Pass
		695.5	25	0	4.563	/	Pass
10	QPSK	668	50	0	9.093	/	Pass
		680.5	50	0	9.073	/	Pass
		693	50	0	9.036	/	Pass
	16QAM	668	50	0	9.088	/	Pass
		680.5	50	0	9.078	/	Pass
		693	50	0	9.091	/	Pass
15	QPSK	670.5	75	0	13.536	/	Pass
		680.5	75	0	13.546	/	Pass
		690.5	75	0	13.541	/	Pass
	16QAM	670.5	75	0	13.558	/	Pass
		680.5	75	0	13.630	/	Pass
		690.5	75	0	13.514	/	Pass
20	QPSK	673	100	0	18.076	/	Pass
		683	100	0	18.072	/	Pass
		688	100	0	18.053	/	Pass
	16QAM	673	100	0	18.059	/	Pass
		683	100	0	18.090	/	Pass
		688	100	0	18.079	/	Pass

4.1.2 Band71_XDB

Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	5.031	/	Pass
		680.5	25	0	5.059	/	Pass
		695.5	25	0	5.054	/	Pass
	16QAM	665.5	25	0	5.049	/	Pass
		680.5	25	0	5.041	/	Pass
		695.5	25	0	5.070	/	Pass
10	QPSK	668	50	0	10.155	/	Pass
		680.5	50	0	10.063	/	Pass
		693	50	0	10.049	/	Pass
	16QAM	668	50	0	10.113	/	Pass
		680.5	50	0	10.113	/	Pass
		693	50	0	10.112	/	Pass
15	QPSK	670.5	75	0	15.153	/	Pass
		680.5	75	0	15.165	/	Pass
		690.5	75	0	15.245	/	Pass

	16QAM	670.5	75	0	15.334	/	Pass
		680.5	75	0	15.292	/	Pass
		690.5	75	0	15.131	/	Pass
20	QPSK	673	100	0	20.056	/	Pass
		683	100	0	20.048	/	Pass
		688	100	0	20.007	/	Pass
	16QAM	673	100	0	19.843	/	Pass
		683	100	0	20.163	/	Pass
		688	100	0	20.152	/	Pass

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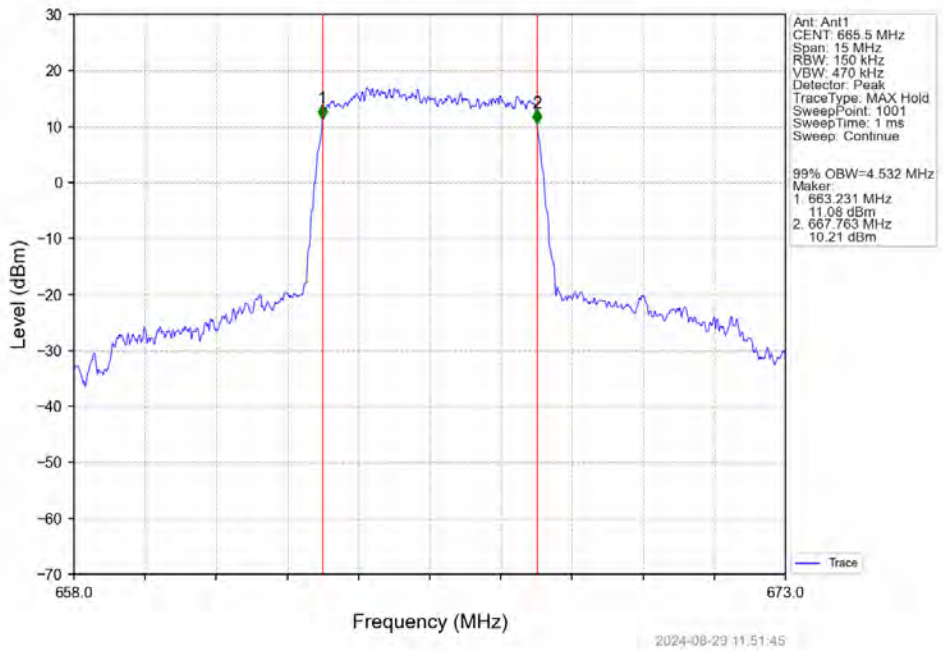
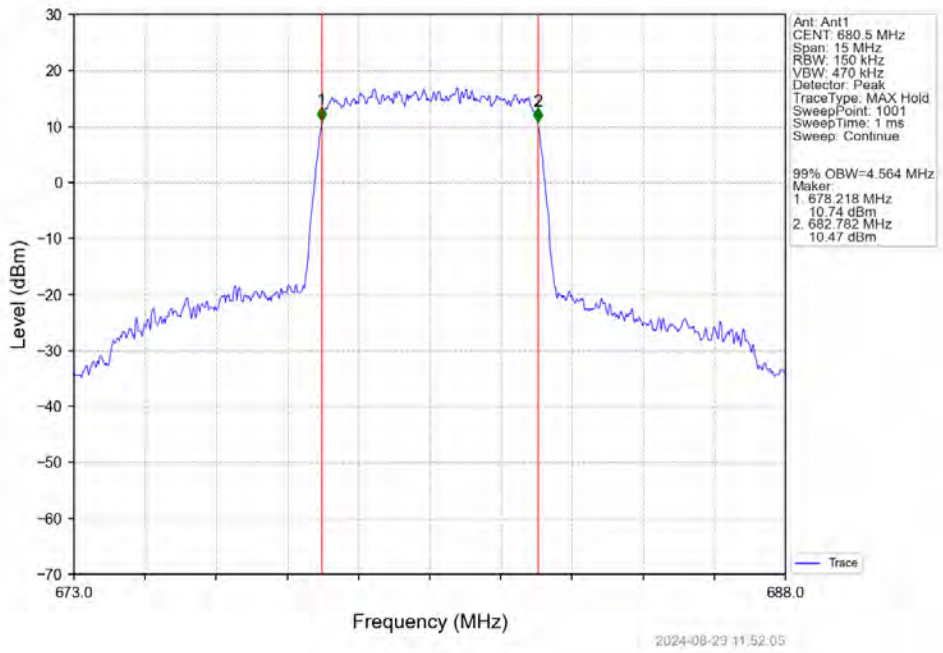
4.2 Test Graph

4.2.1 Band71_OBW

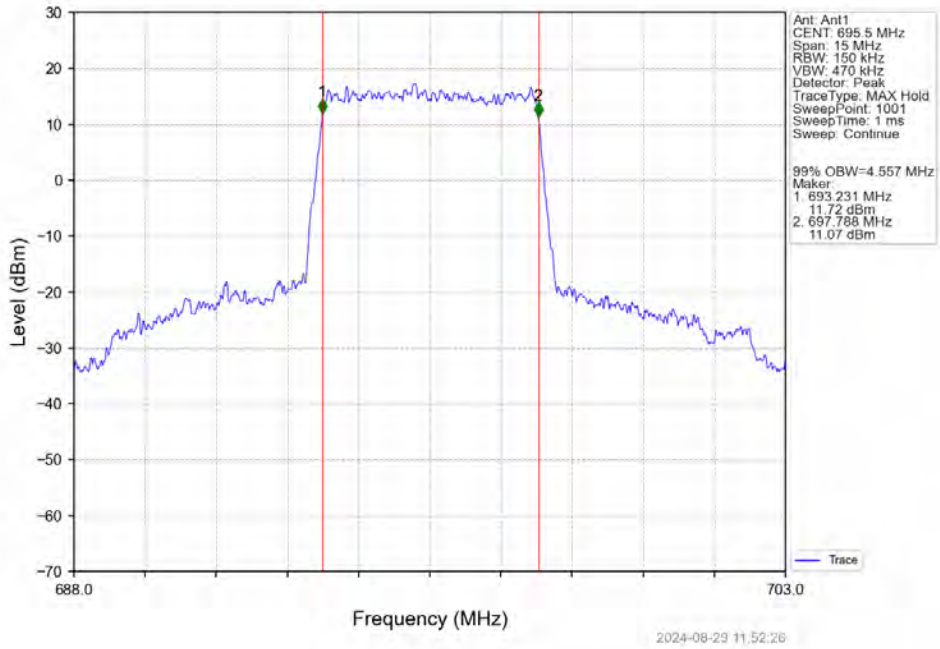
Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV



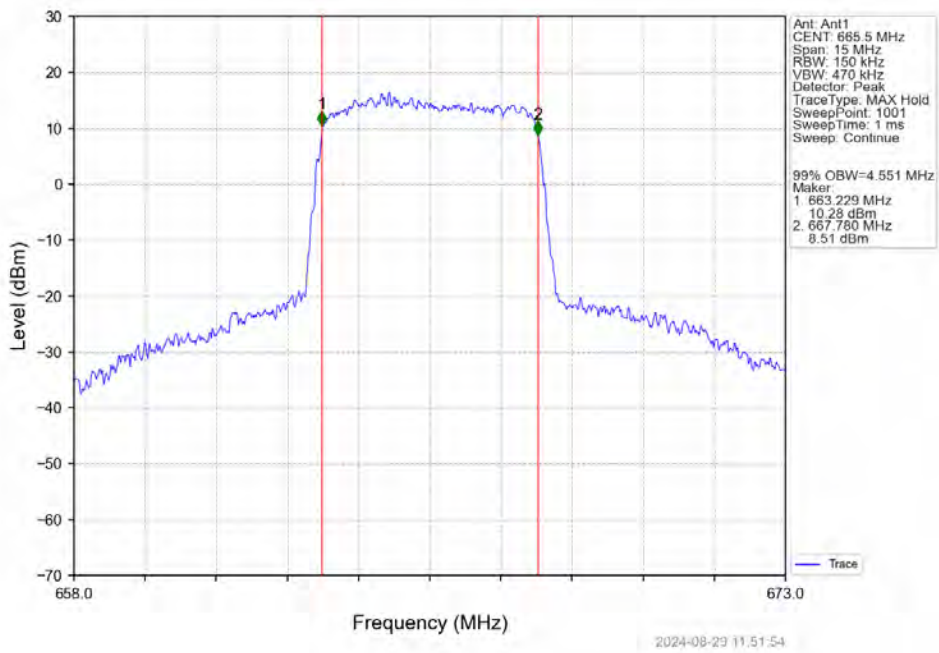
Band71_5MHz_QPSK_MCH_680.5MHz_RB_25_0_NTNV



Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



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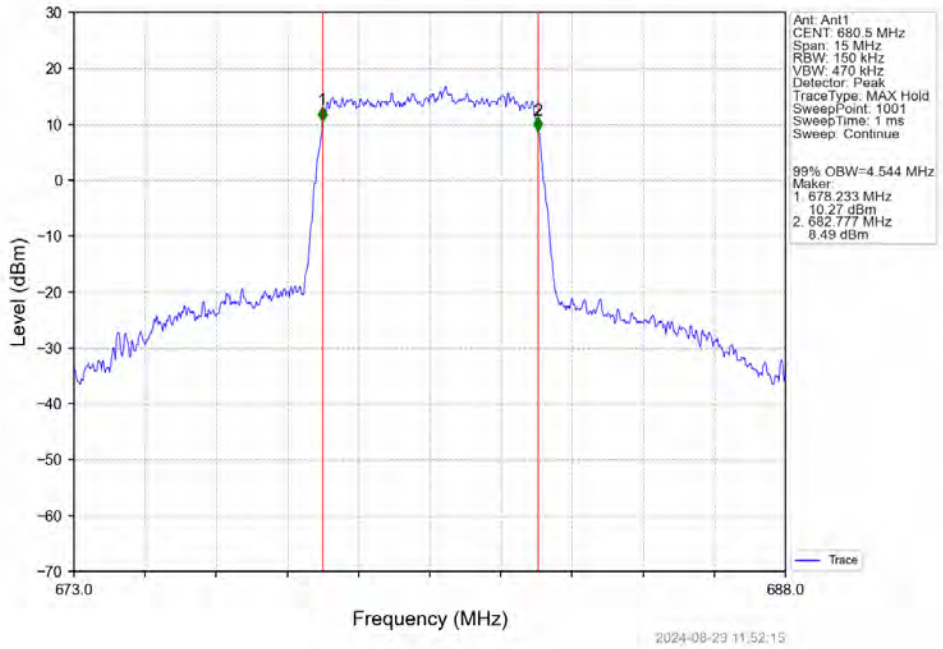
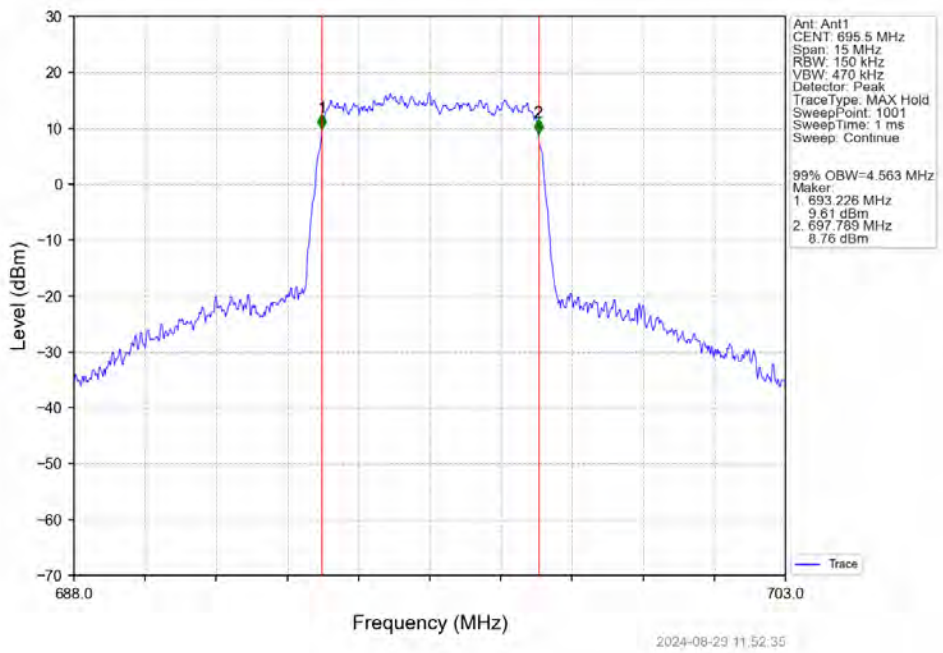
Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



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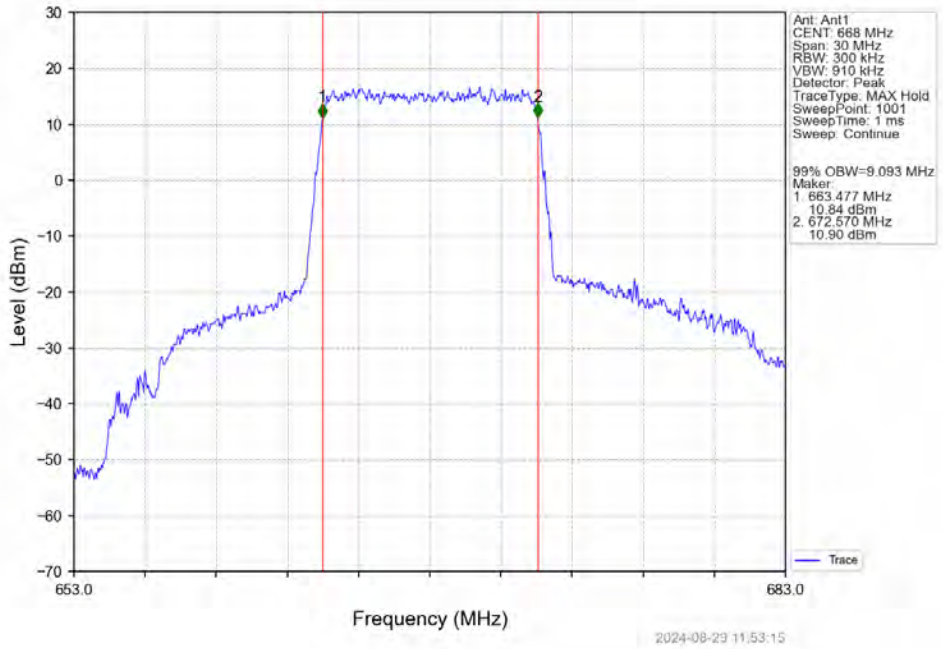
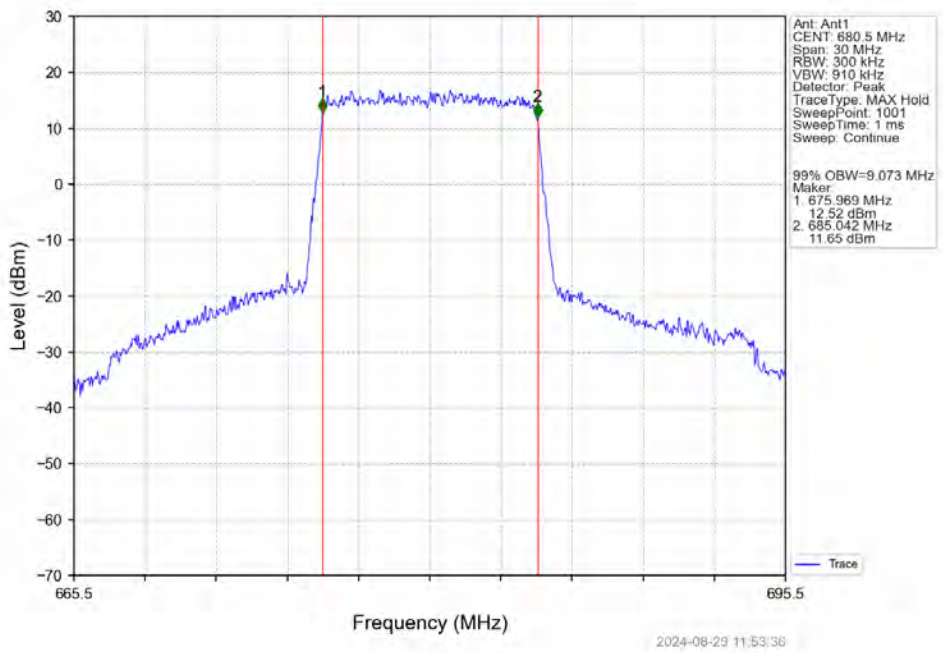
Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV

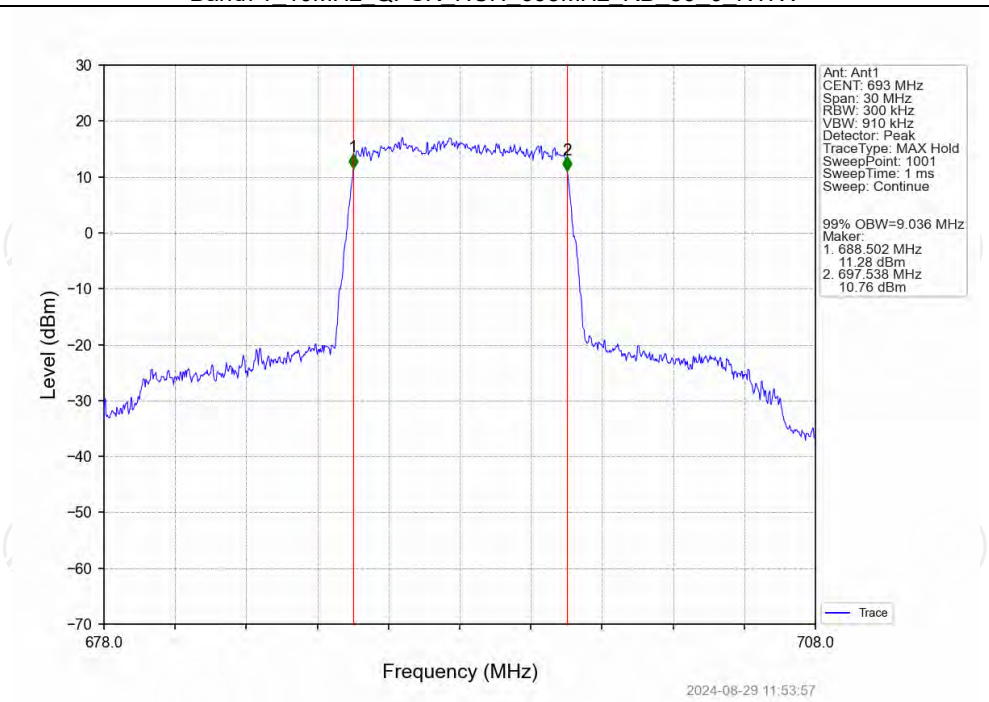


Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV

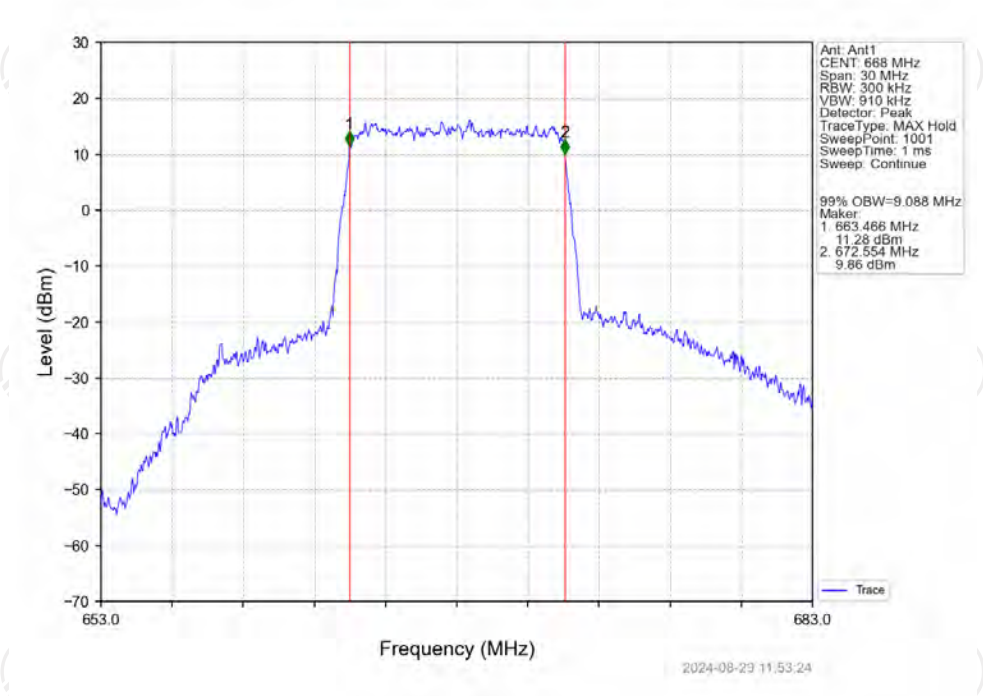


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV

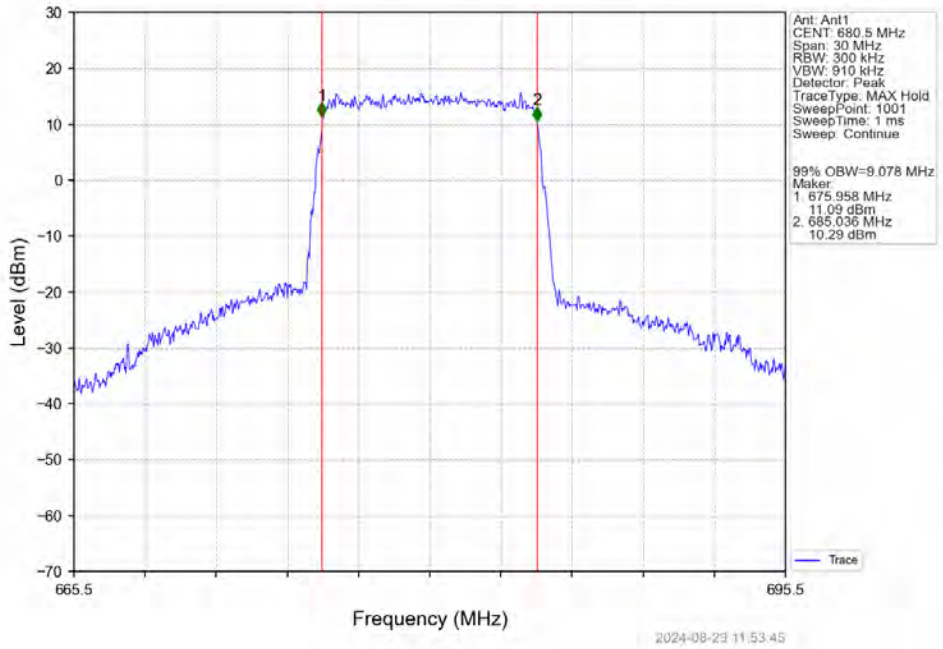


Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV

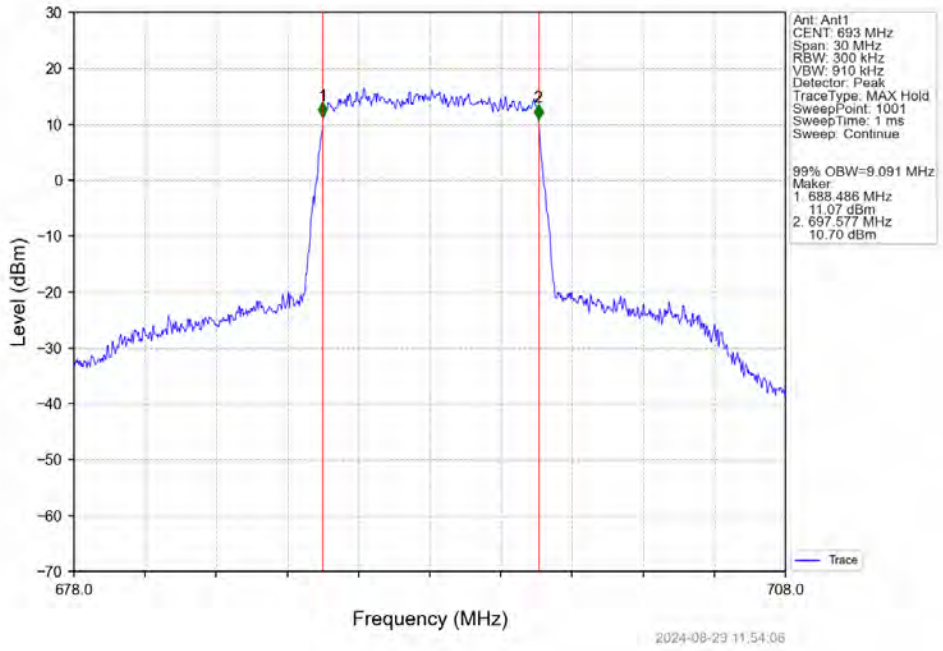


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



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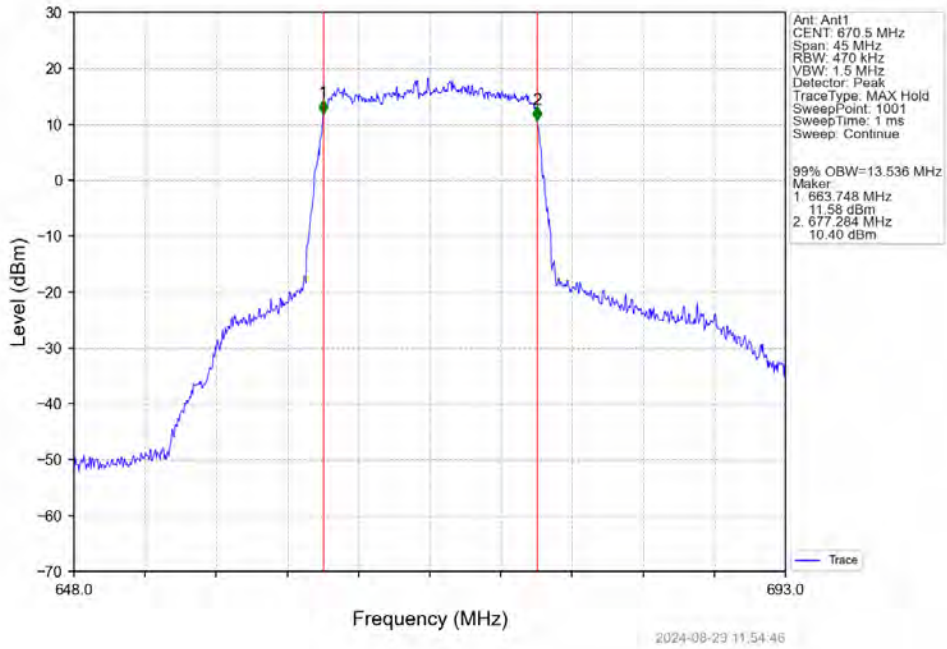
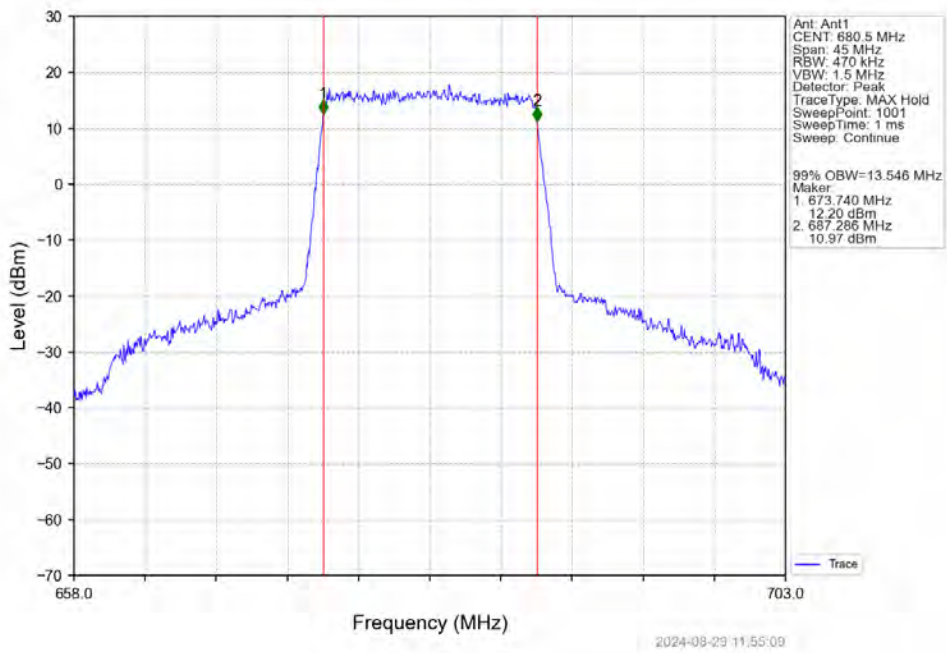
Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



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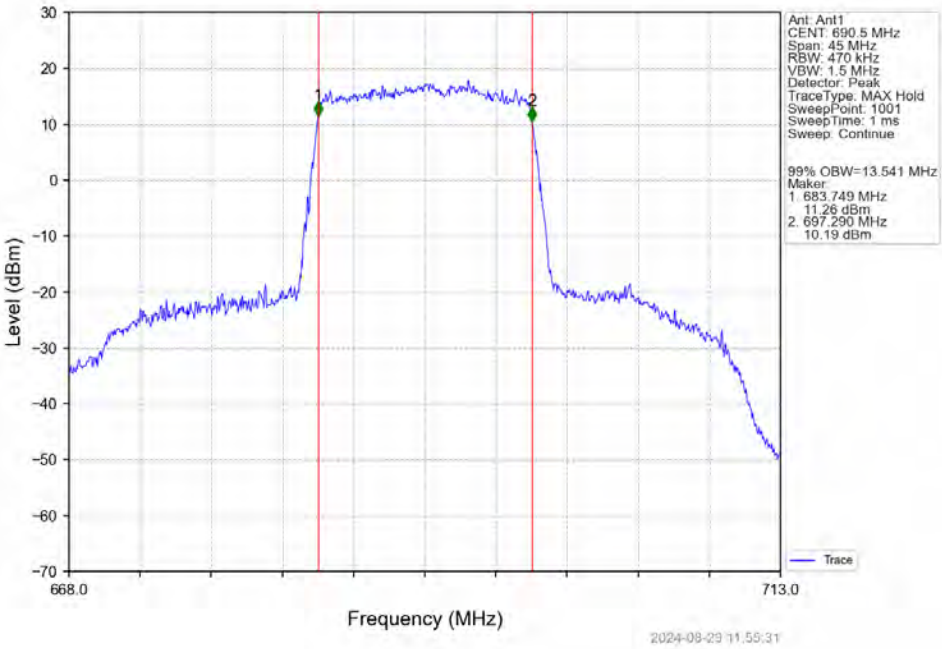
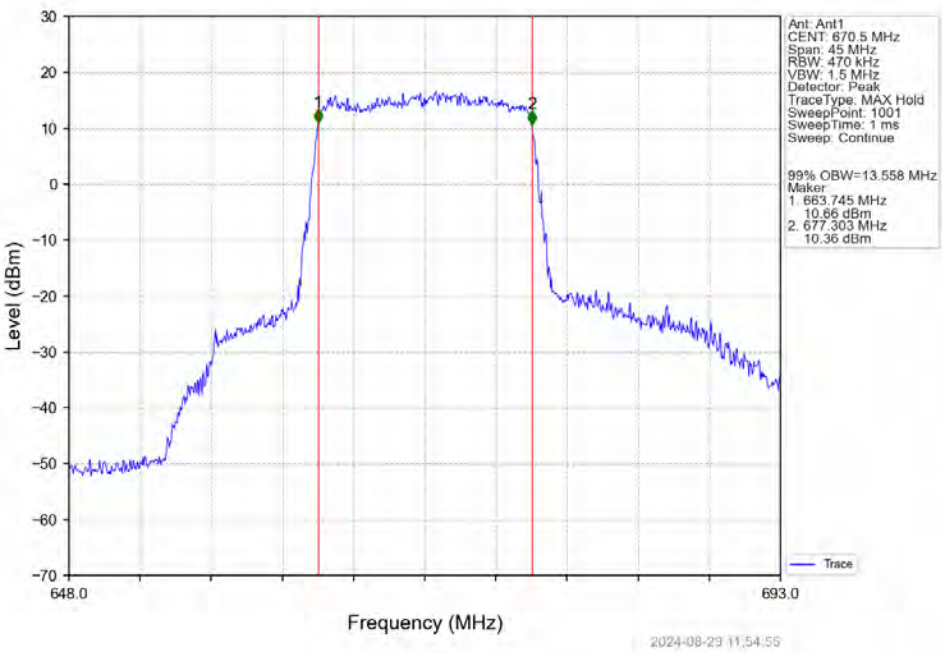
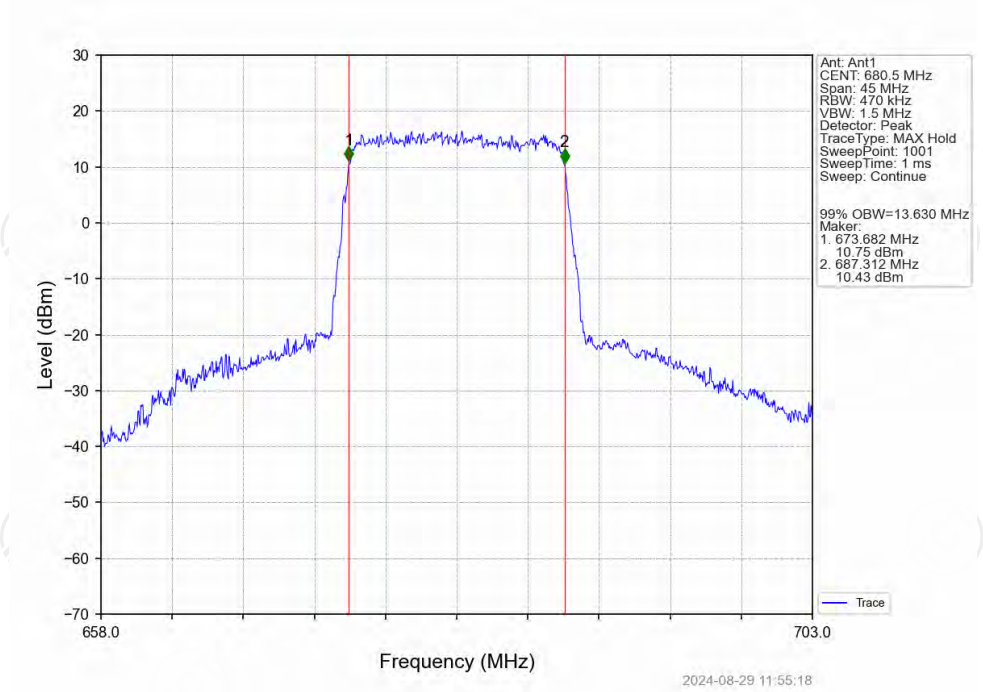
Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV



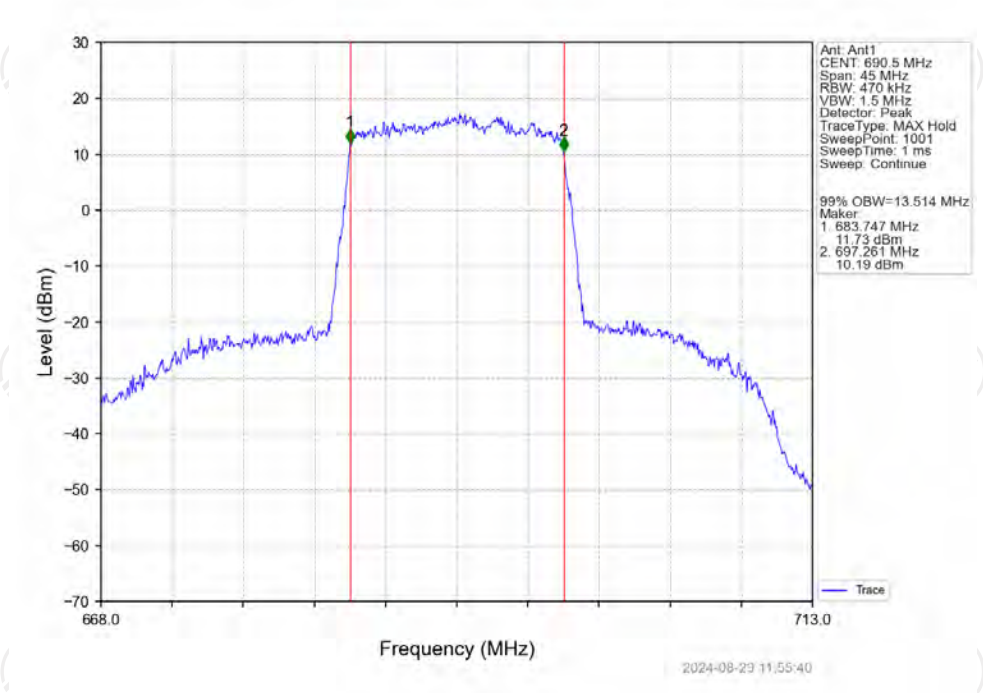
Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



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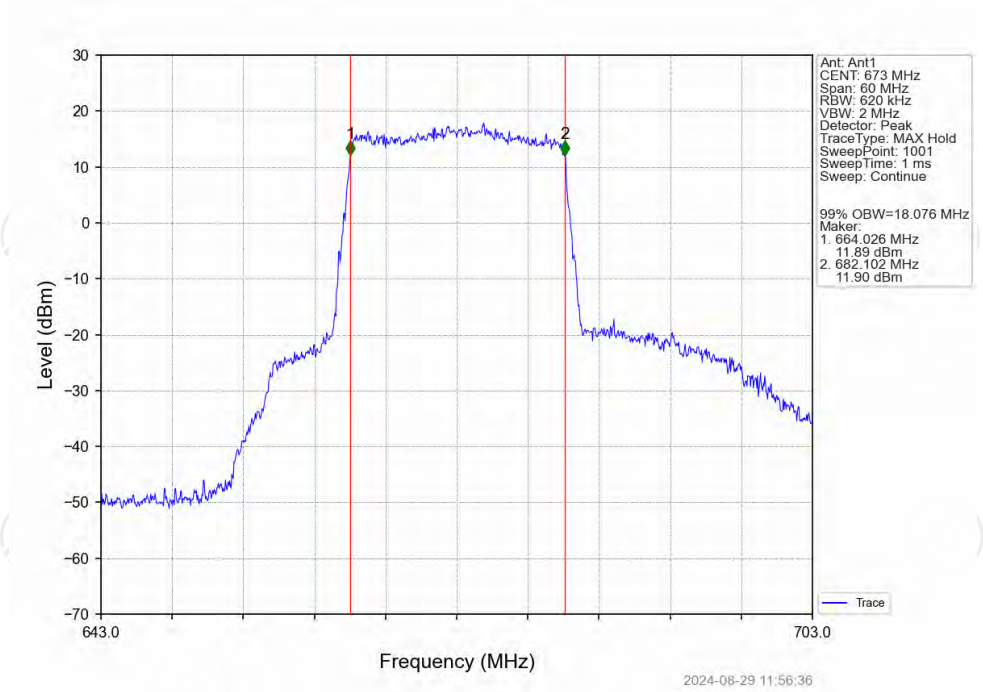
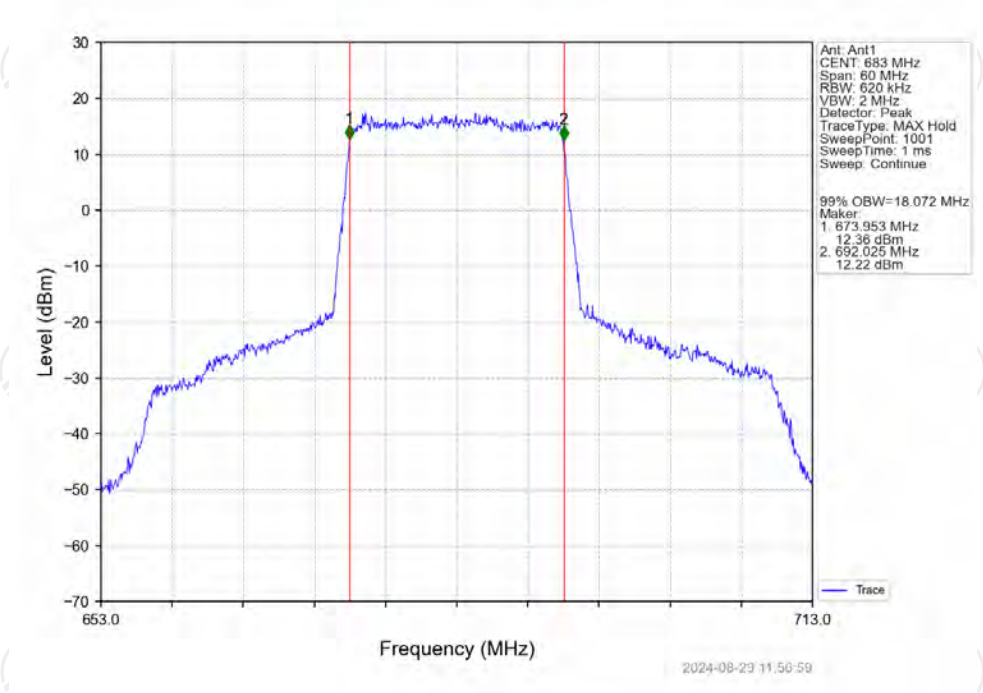
Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV

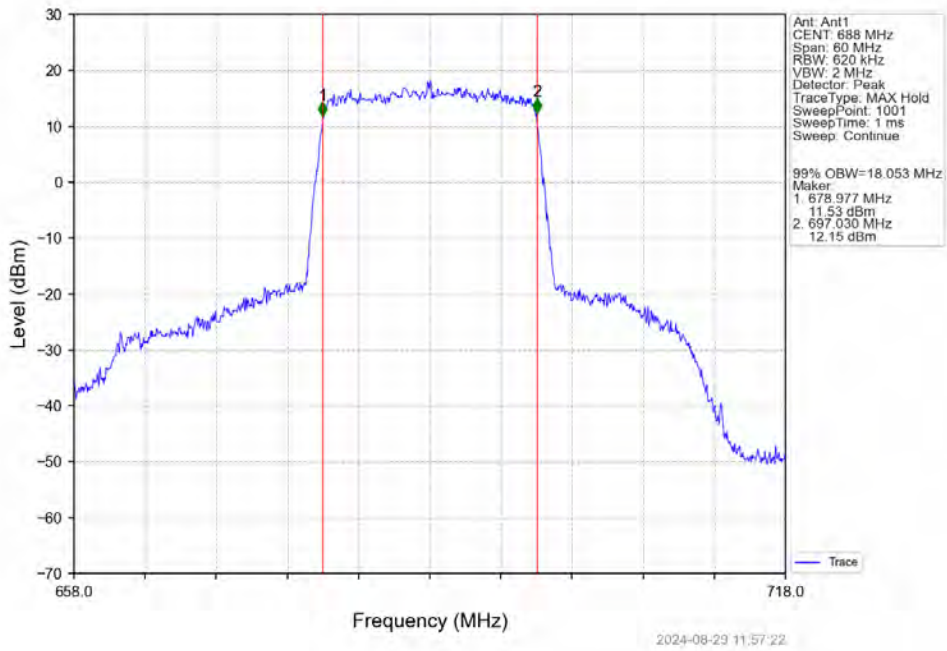


Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV

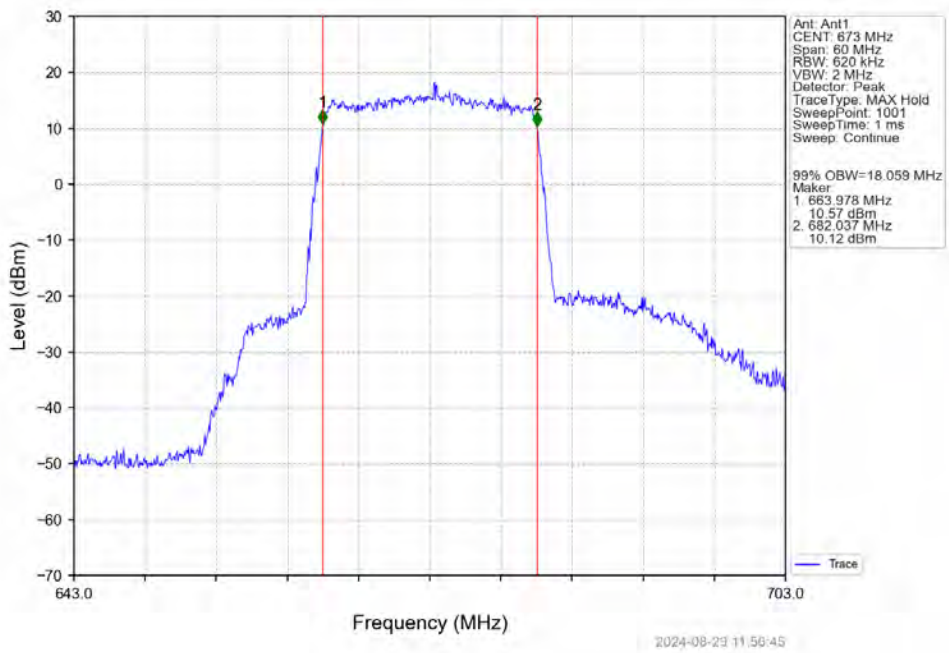


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV

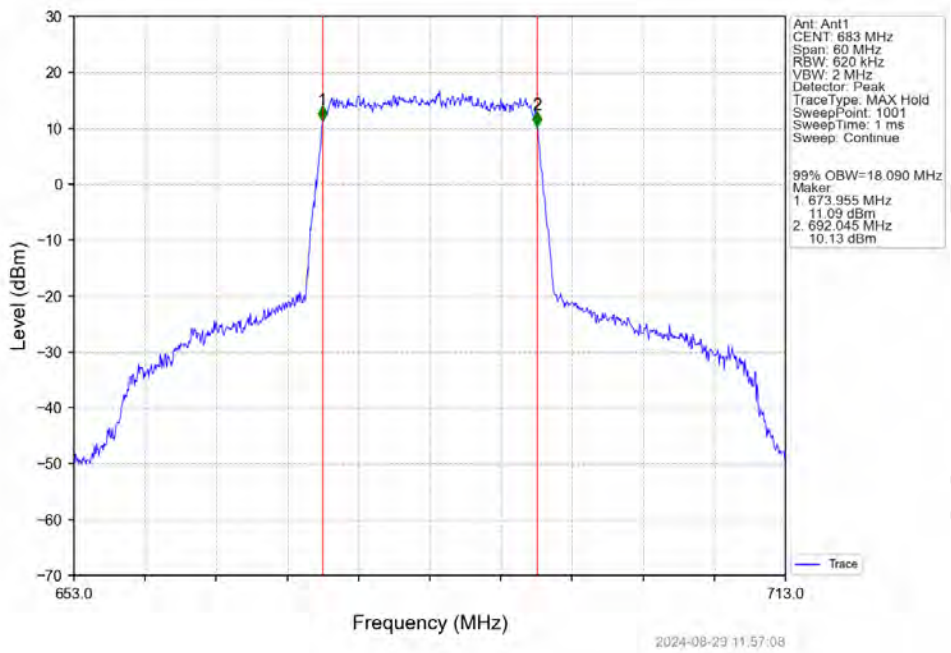


Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV

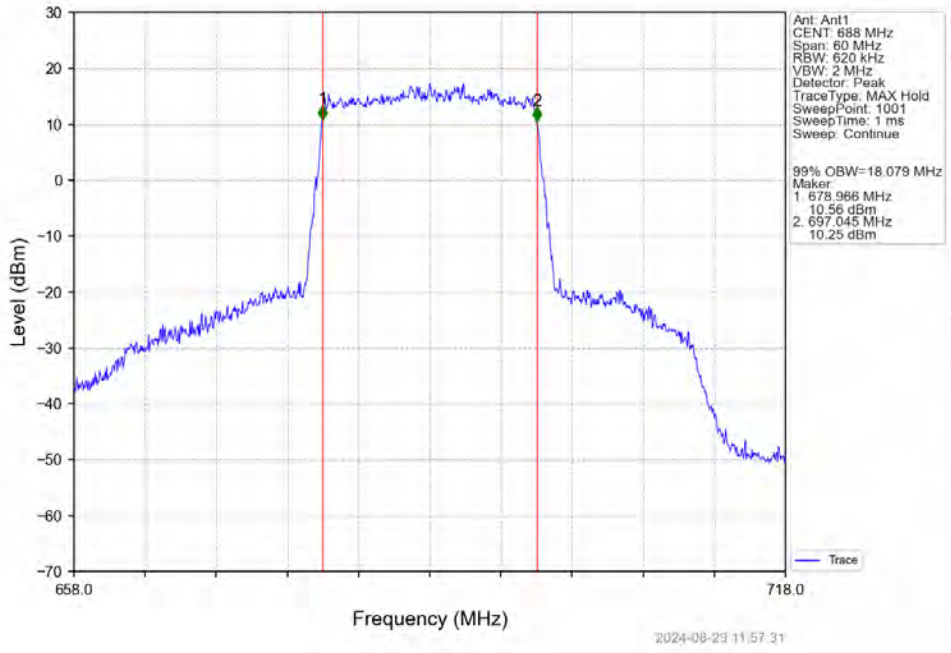


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



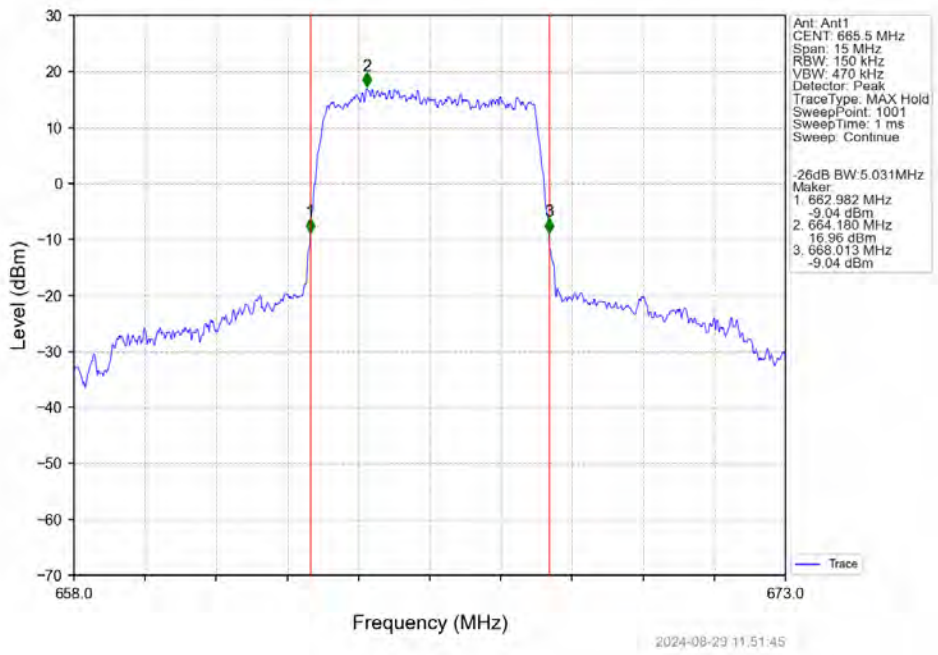
Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



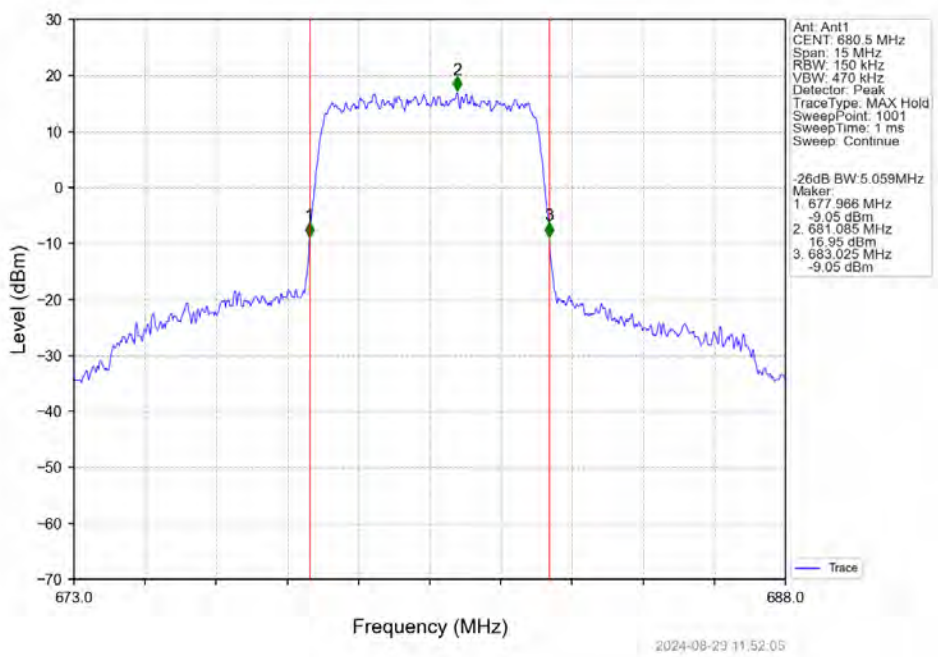
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

4.2.2 Band71_XDB

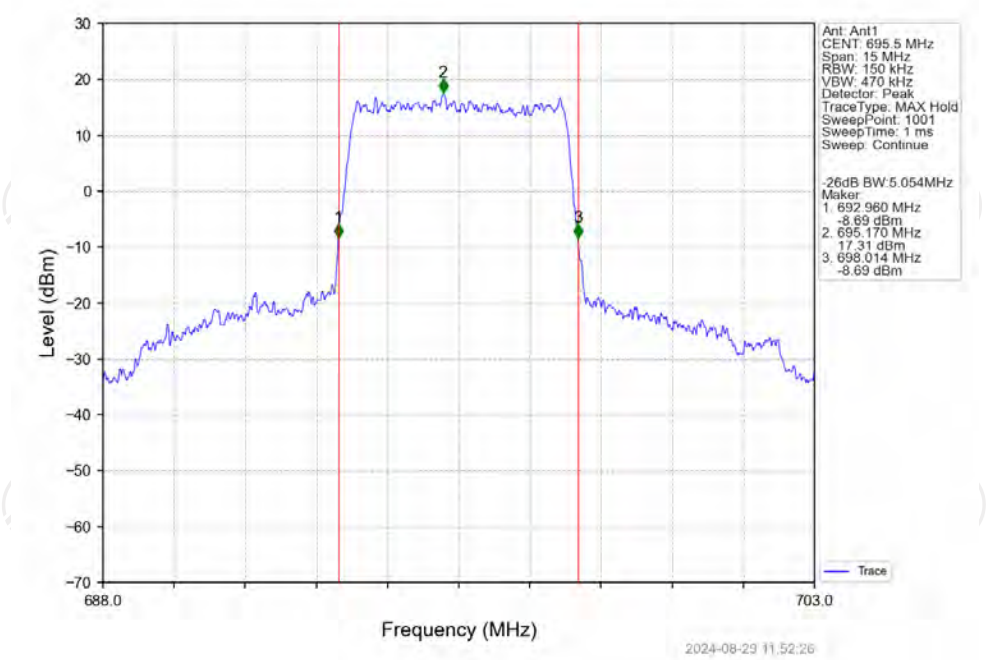
Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV



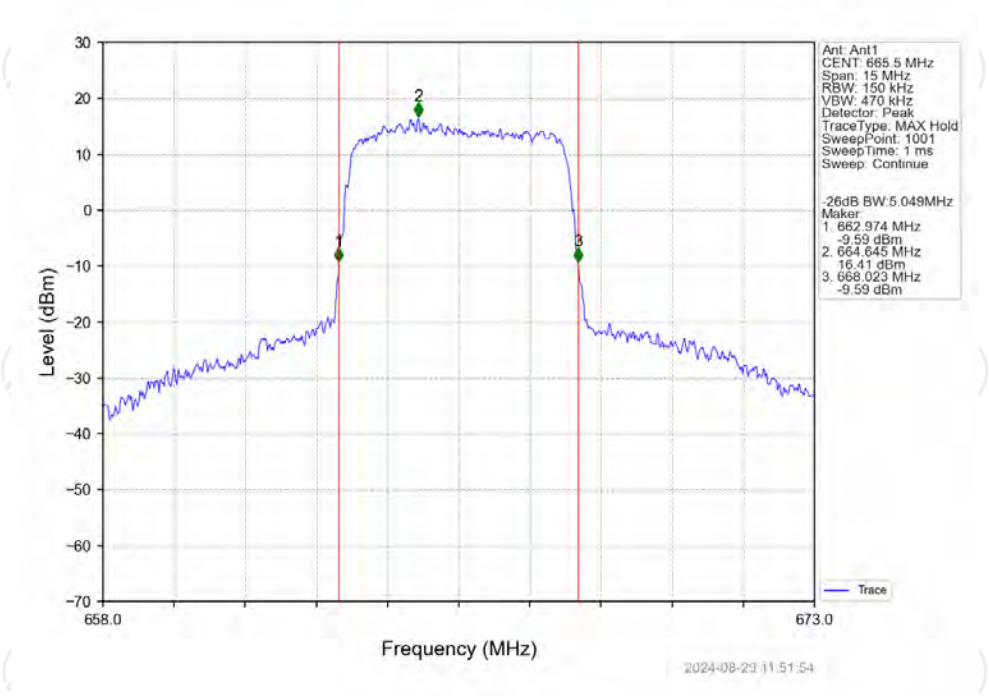
Band71_5MHz_QPSK_MCH_680.5MHz_RB_25_0_NTNV



Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV

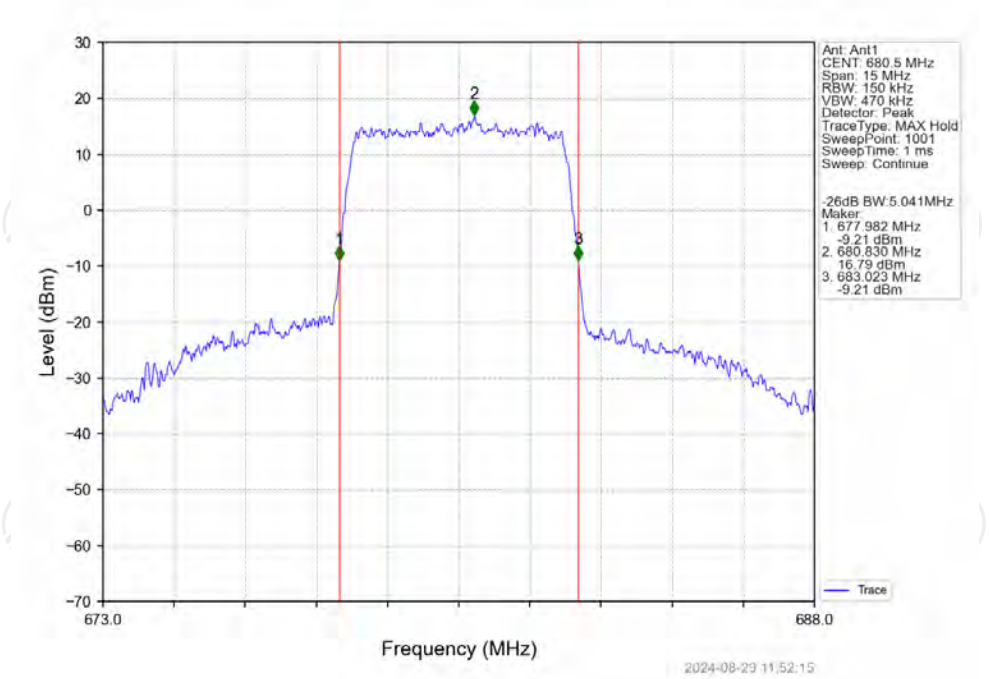


Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV

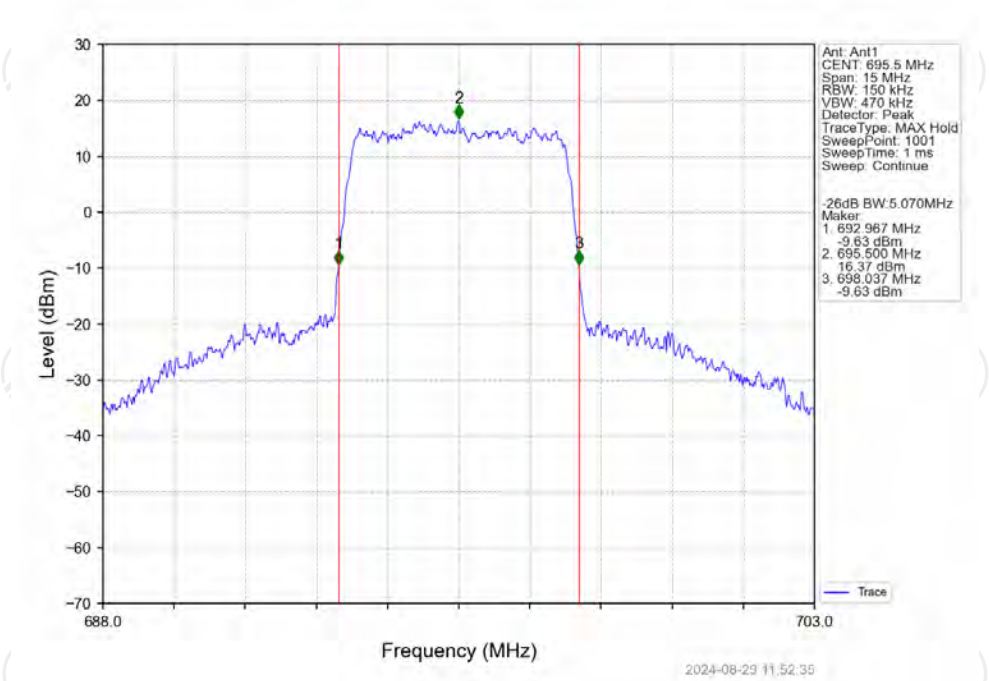


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

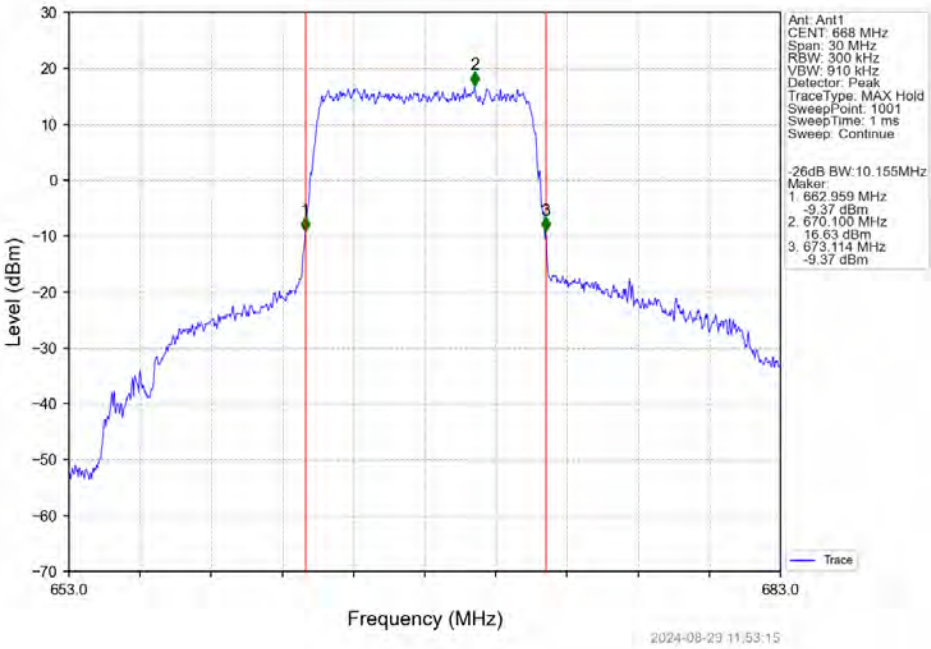
Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



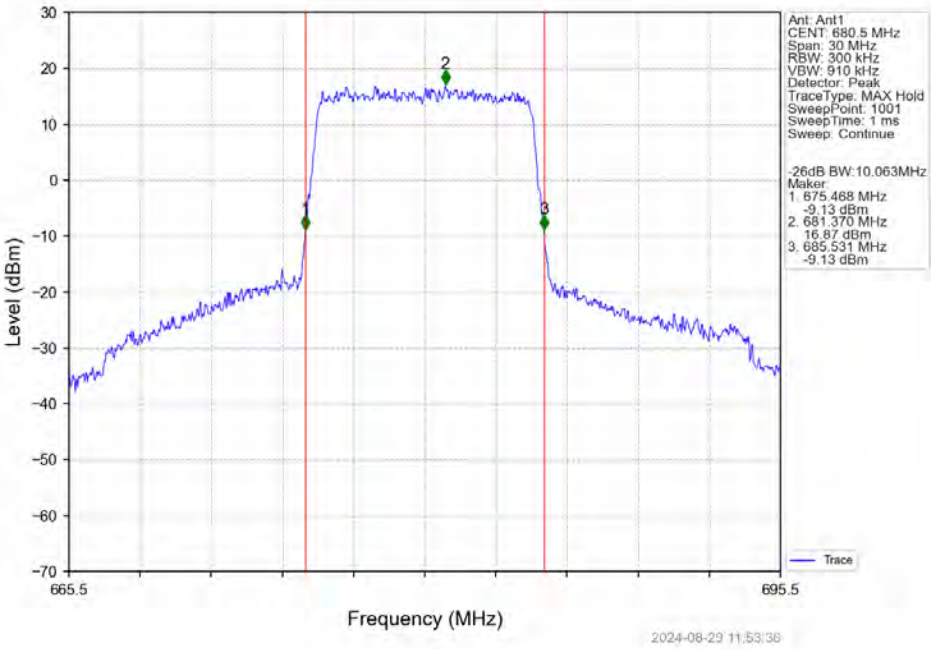
Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV



Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



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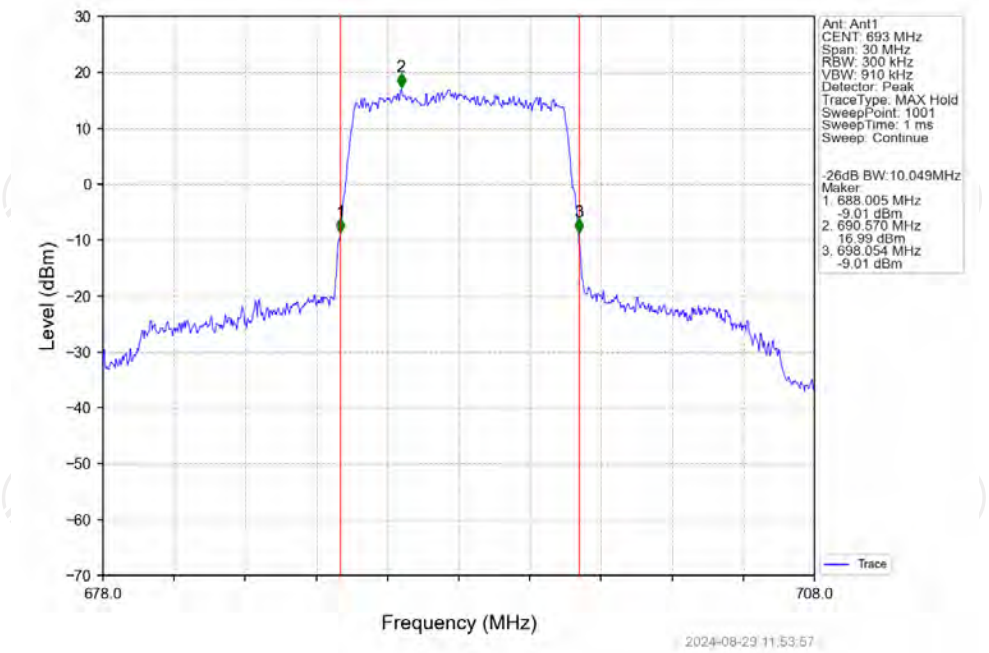
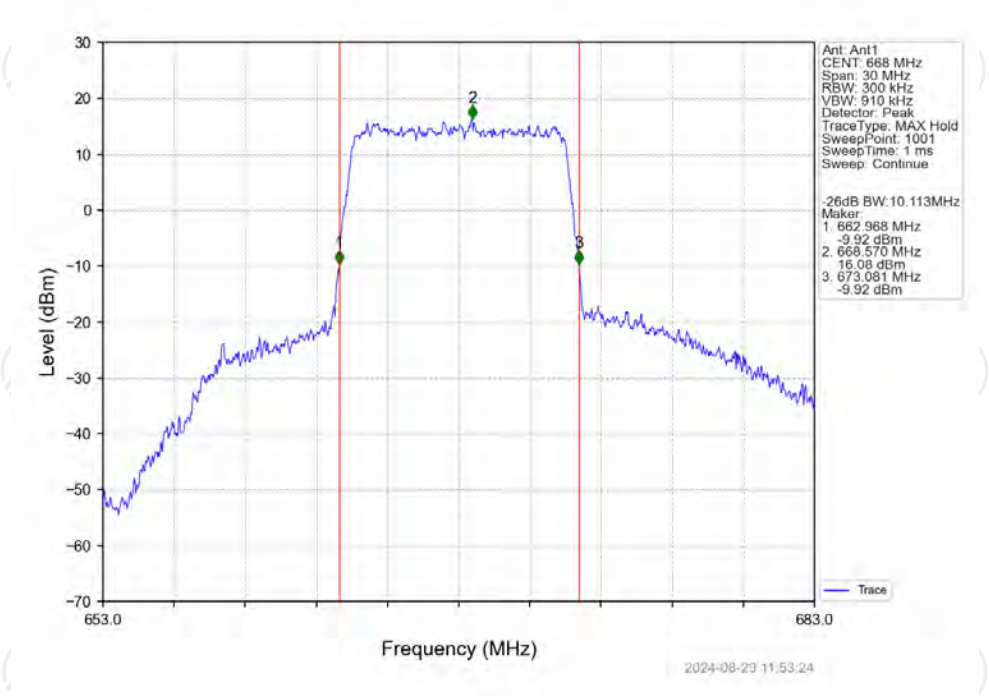
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



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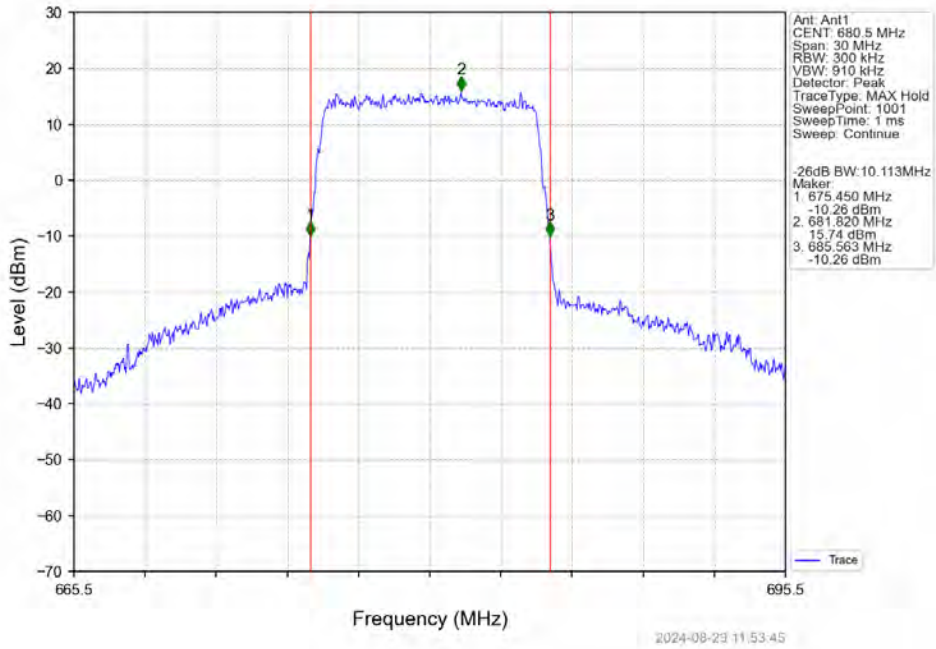
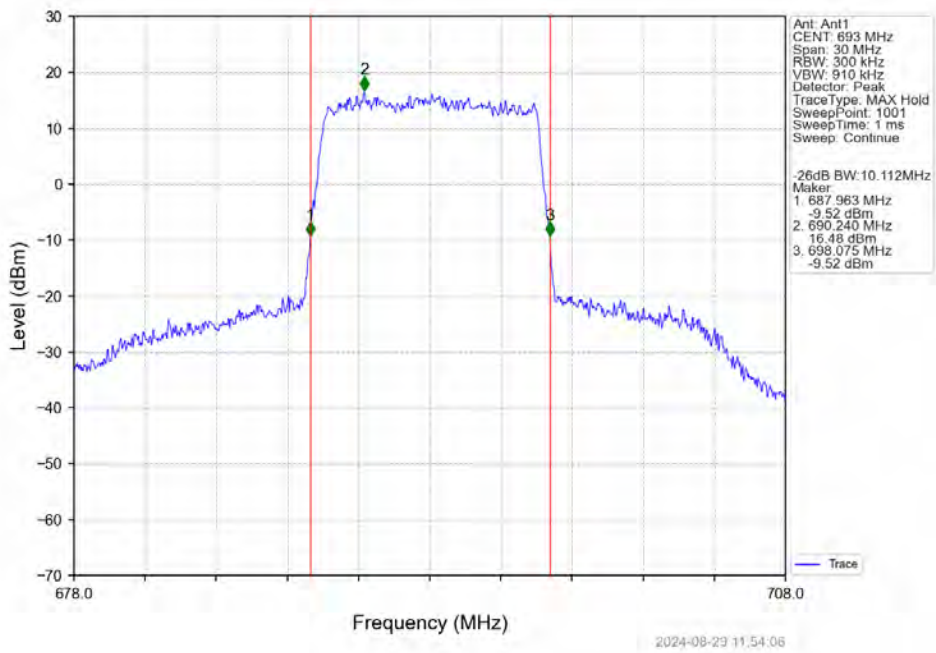
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



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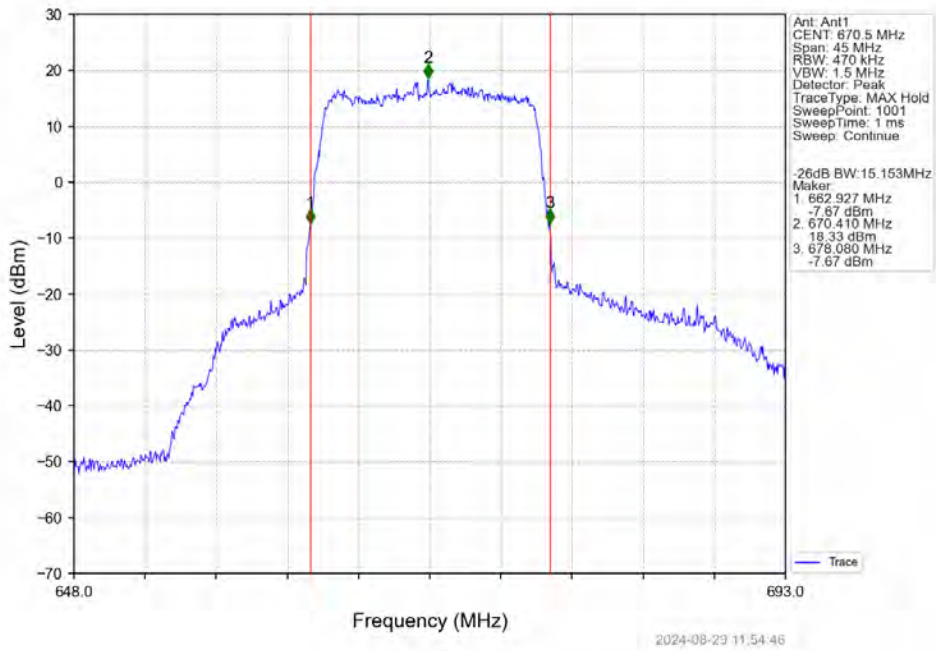
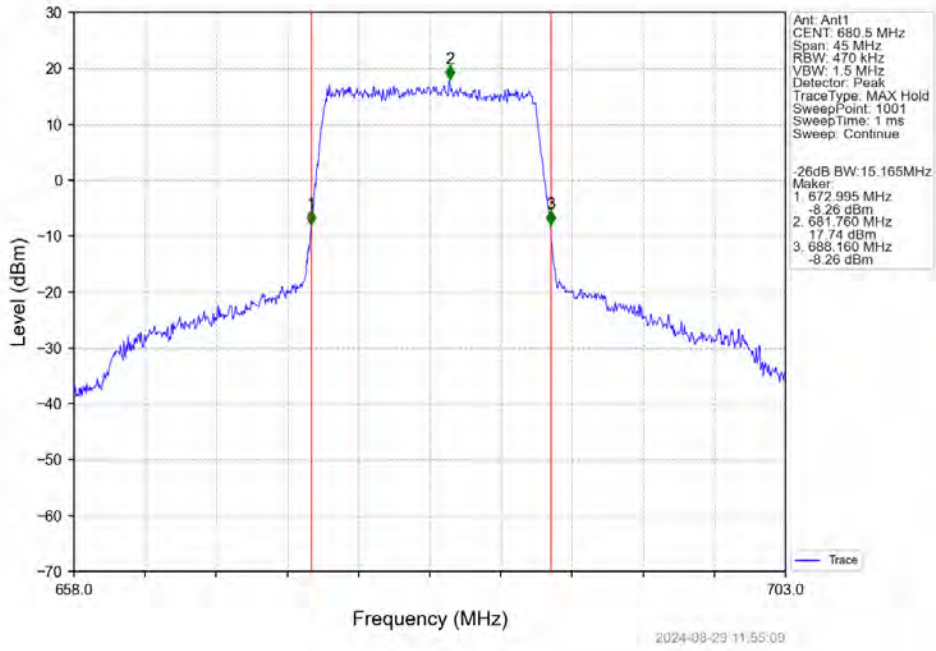
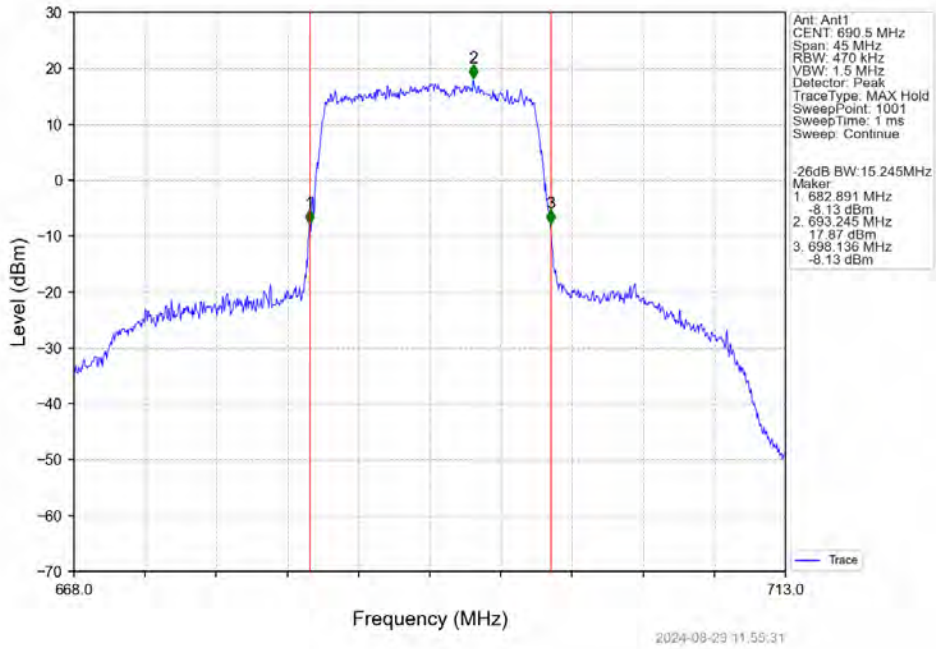
Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



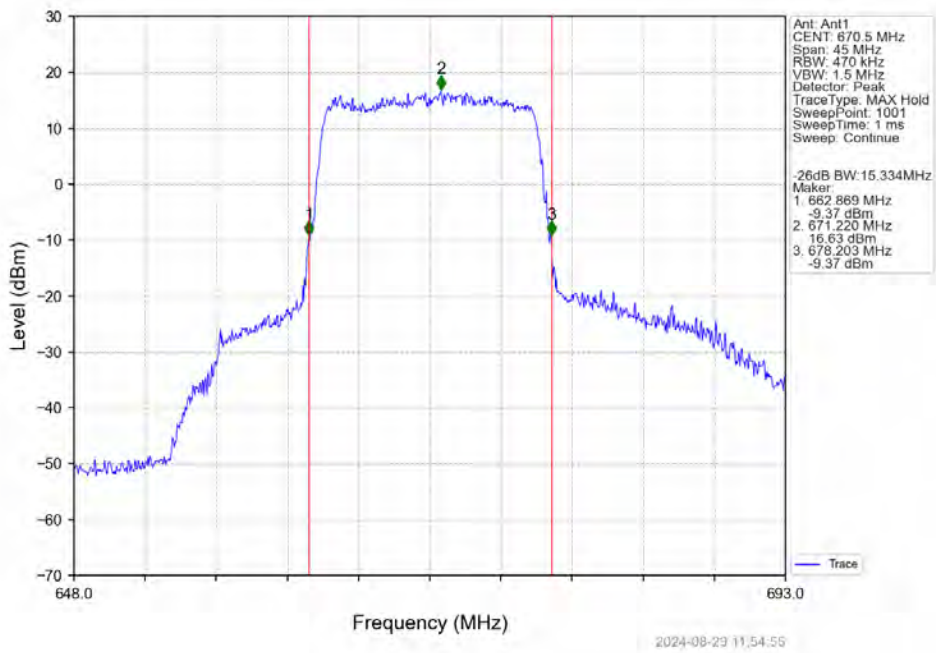
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV

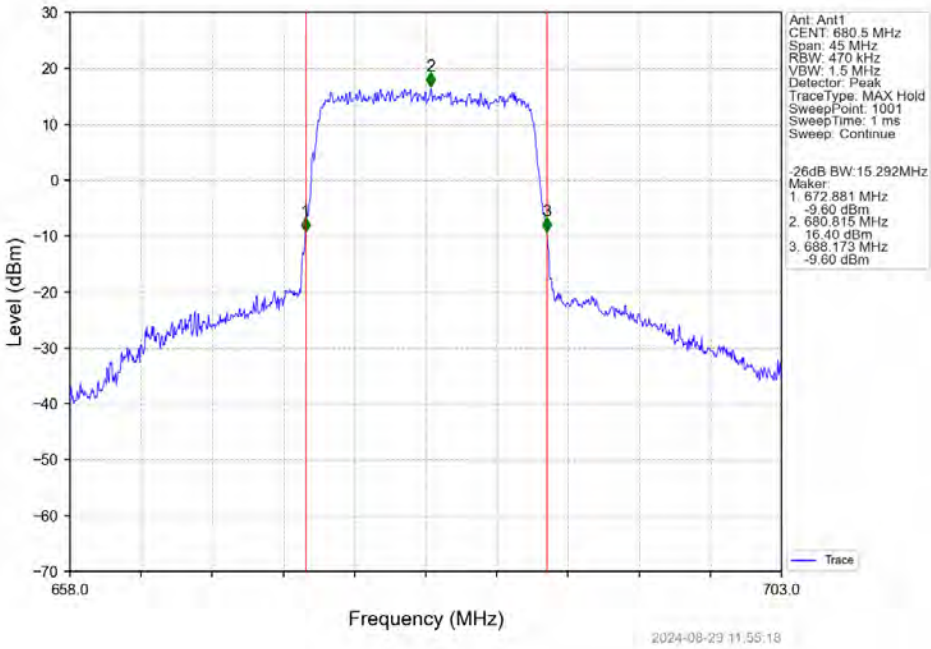


Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV

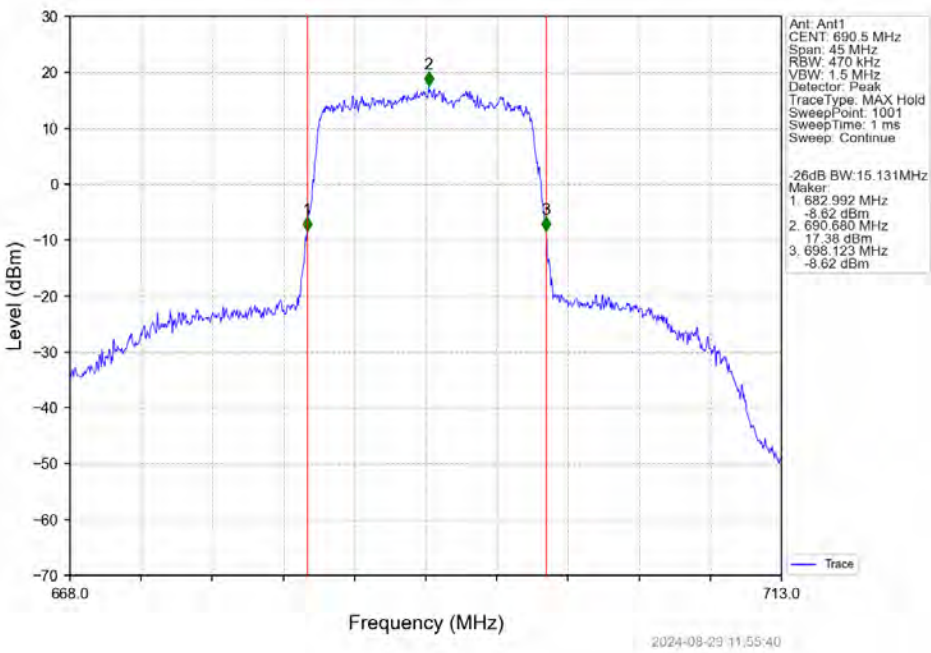


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

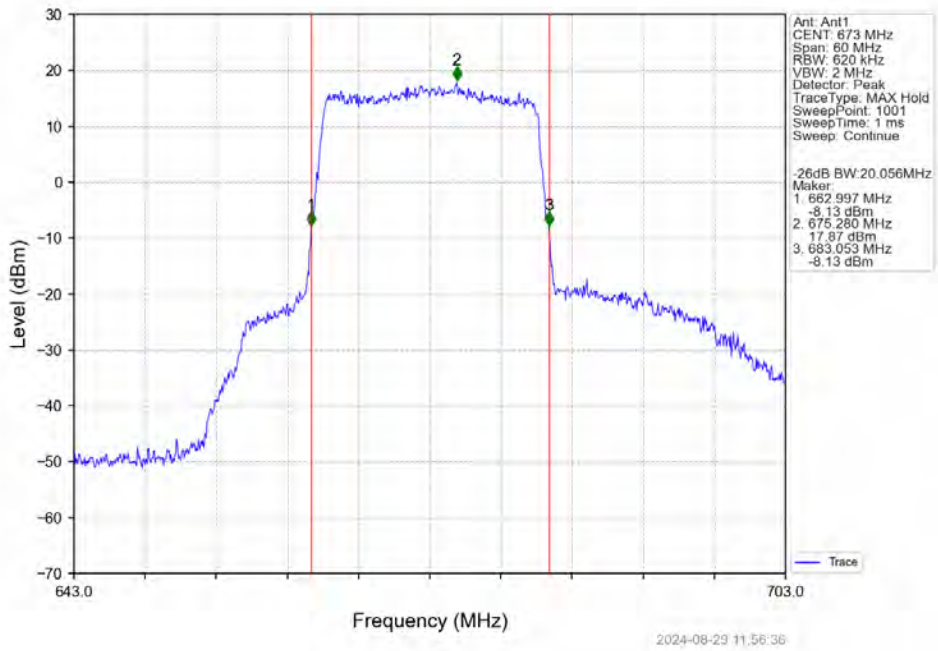
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



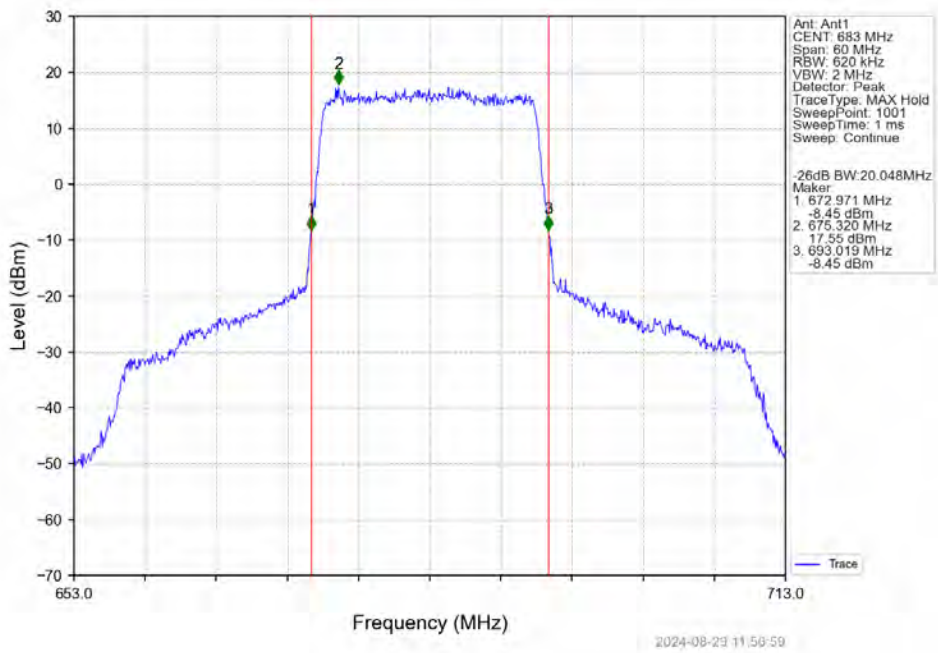
Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



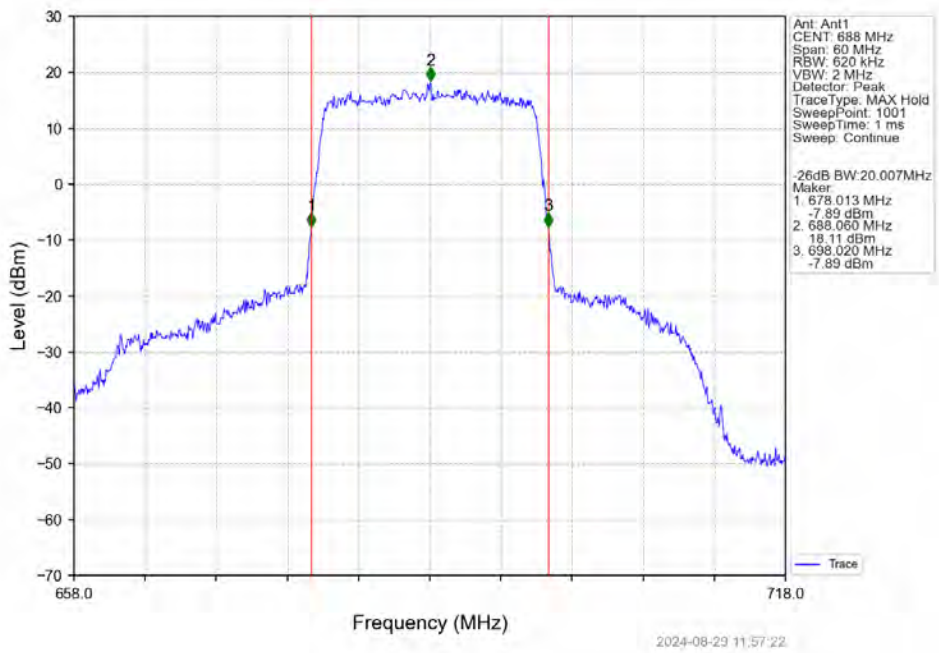
Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV



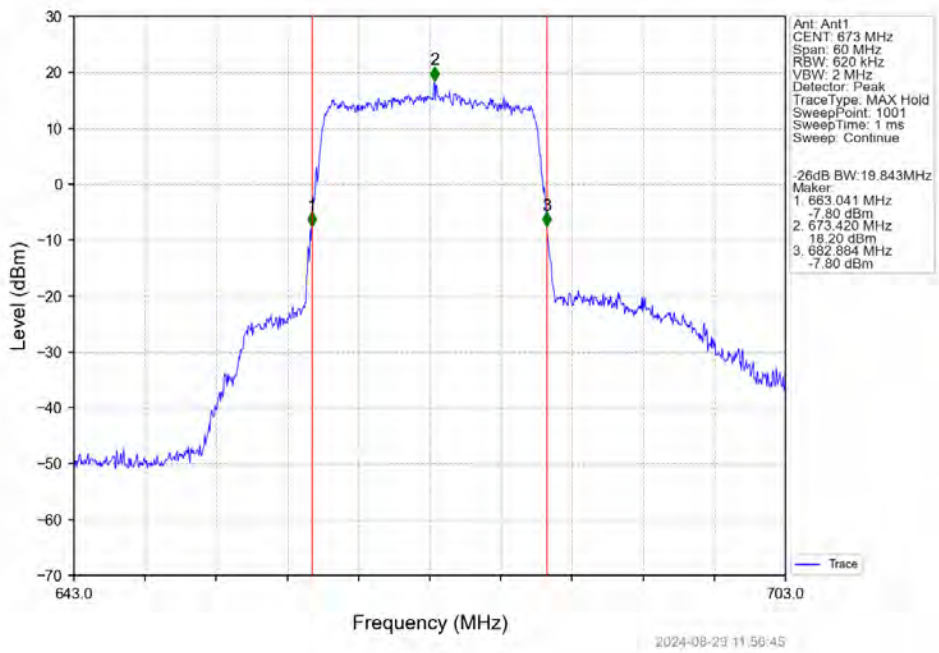
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



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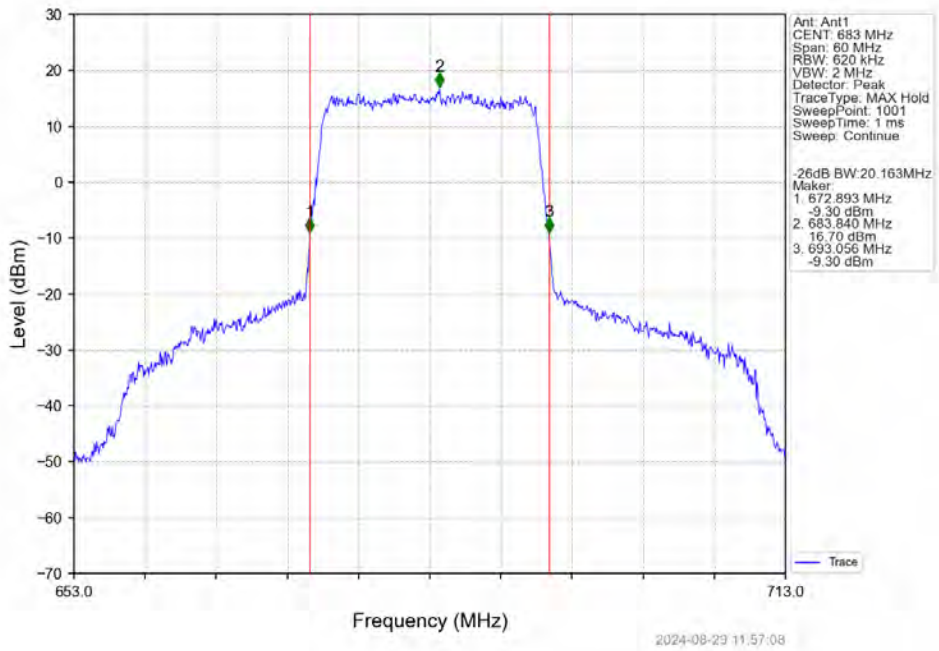
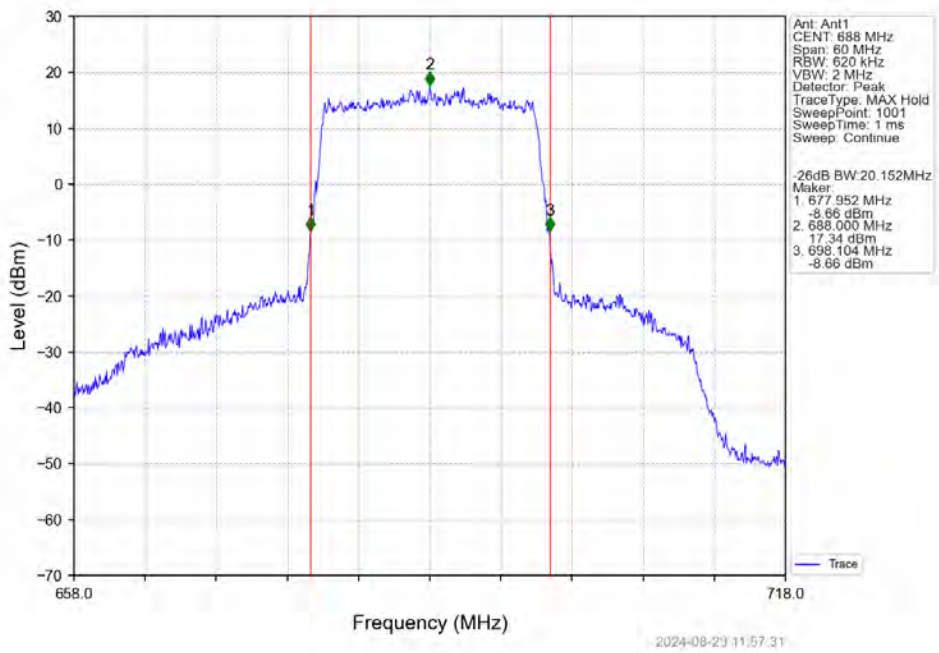
Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B71_5MHz

Band: 71 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	25	0	5.37	<=13	Pass
	680.5	25	0	5.51	<=13	Pass
	695.5	25	0	5.33	<=13	Pass
16QAM	665.5	25	0	6.13	<=13	Pass
	680.5	25	0	6.20	<=13	Pass
	695.5	25	0	6.06	<=13	Pass

5.1.2 B71_10MHz

Band: 71 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	668	50	0	5.53	<=13	Pass
	680.5	50	0	5.51	<=13	Pass
	693	50	0	5.26	<=13	Pass
16QAM	668	50	0	6.24	<=13	Pass
	680.5	50	0	6.29	<=13	Pass
	693	50	0	6.00	<=13	Pass

5.1.3 B71_15MHz

Band: 71 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	75	0	5.65	<=13	Pass
	680.5	75	0	5.74	<=13	Pass
	690.5	75	0	5.38	<=13	Pass
16QAM	670.5	75	0	6.14	<=13	Pass
	680.5	75	0	6.25	<=13	Pass
	690.5	75	0	6.01	<=13	Pass

5.1.4 B71_20MHz

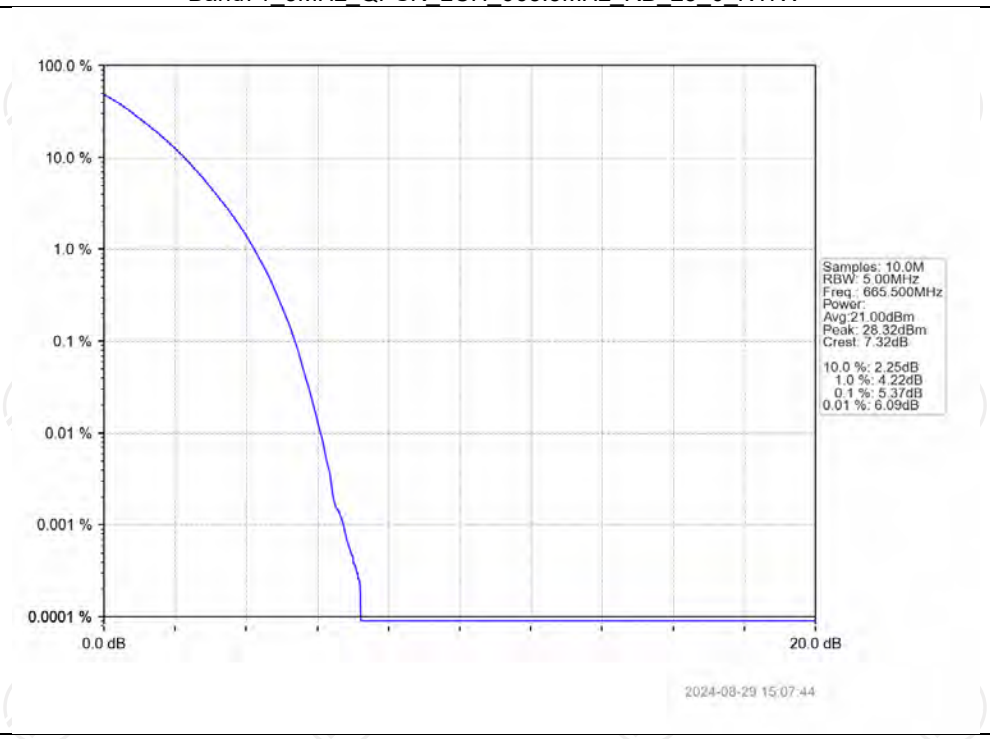
Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	673	100	0	5.34	<=13	Pass
	683	100	0	5.45	<=13	Pass
	688	100	0	5.30	<=13	Pass
16QAM	673	100	0	6.13	<=13	Pass
	683	100	0	6.18	<=13	Pass

	688	100	0	6.13	<=13	Pass

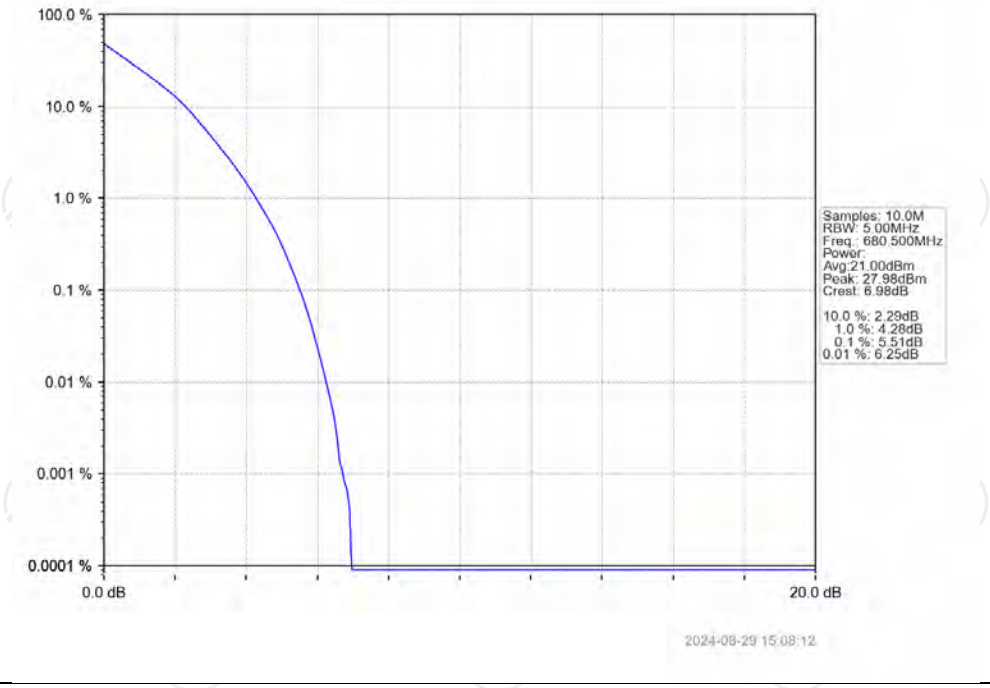
5.2 Test Graph

5.2.1 B71_5MHz

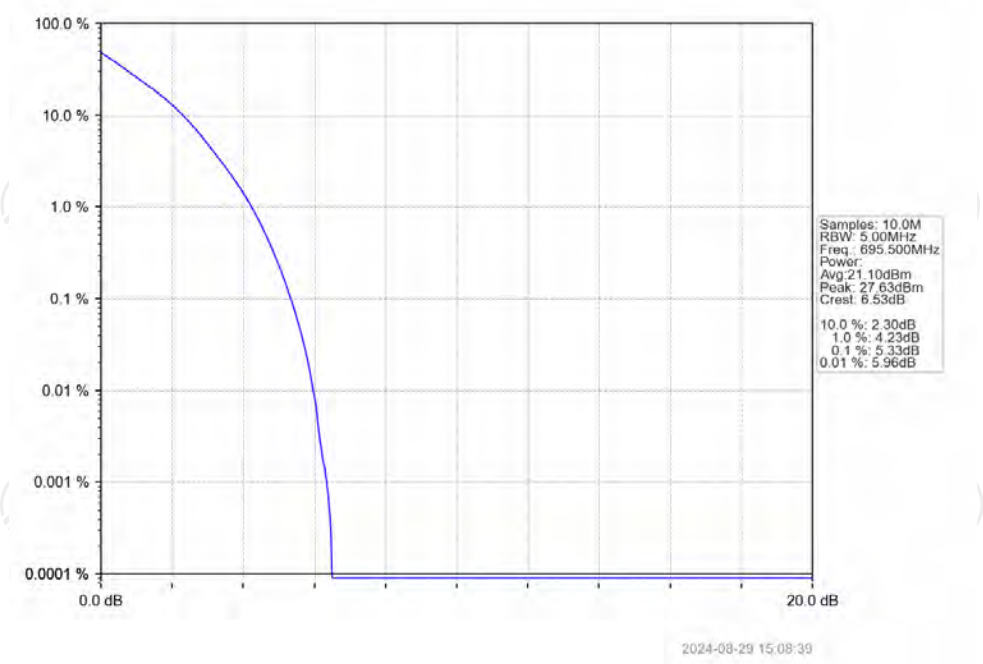
Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV



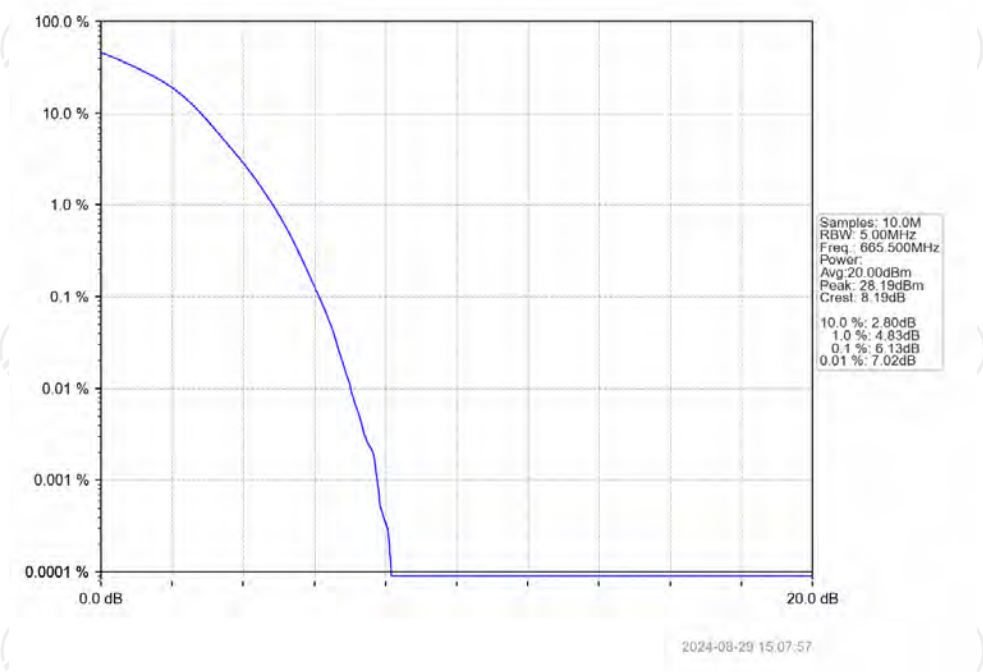
Band71_5MHz_QPSK_MCH_680.5MHz_RB_25_0_NTNV



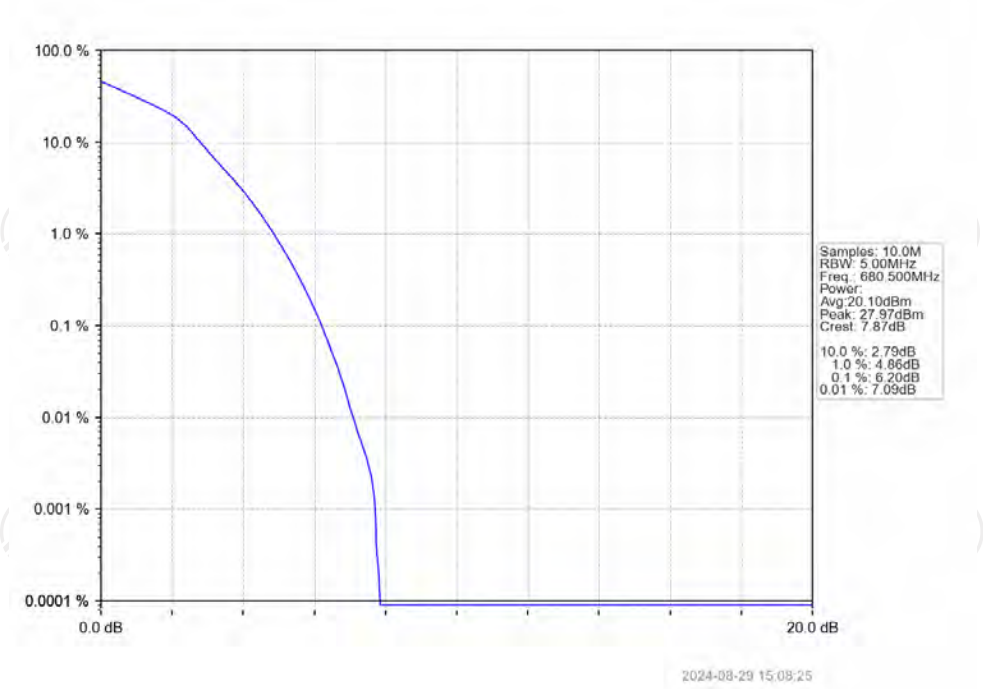
Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



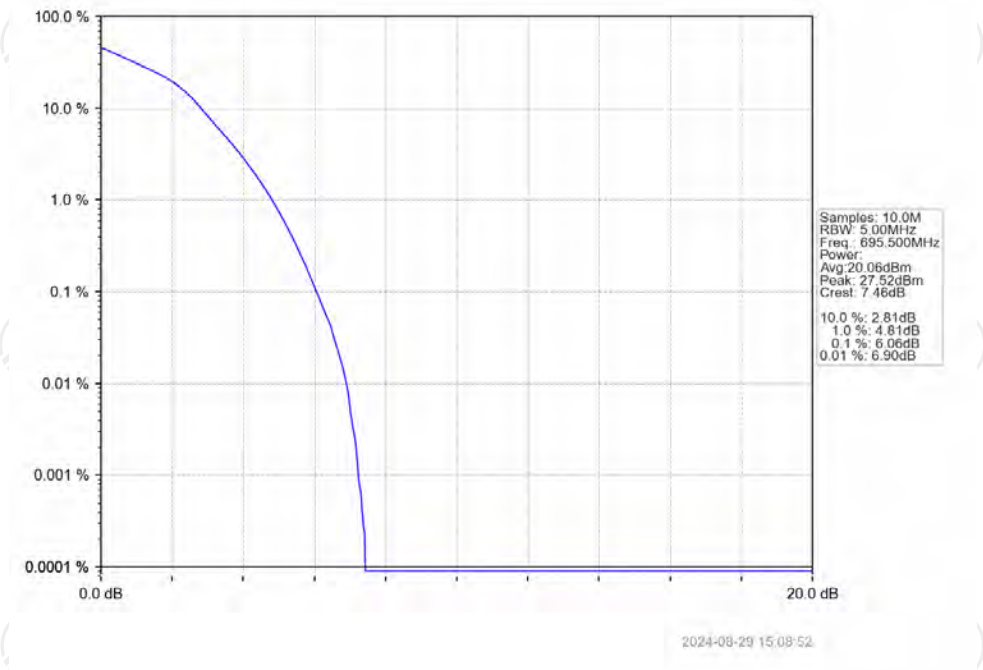
Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



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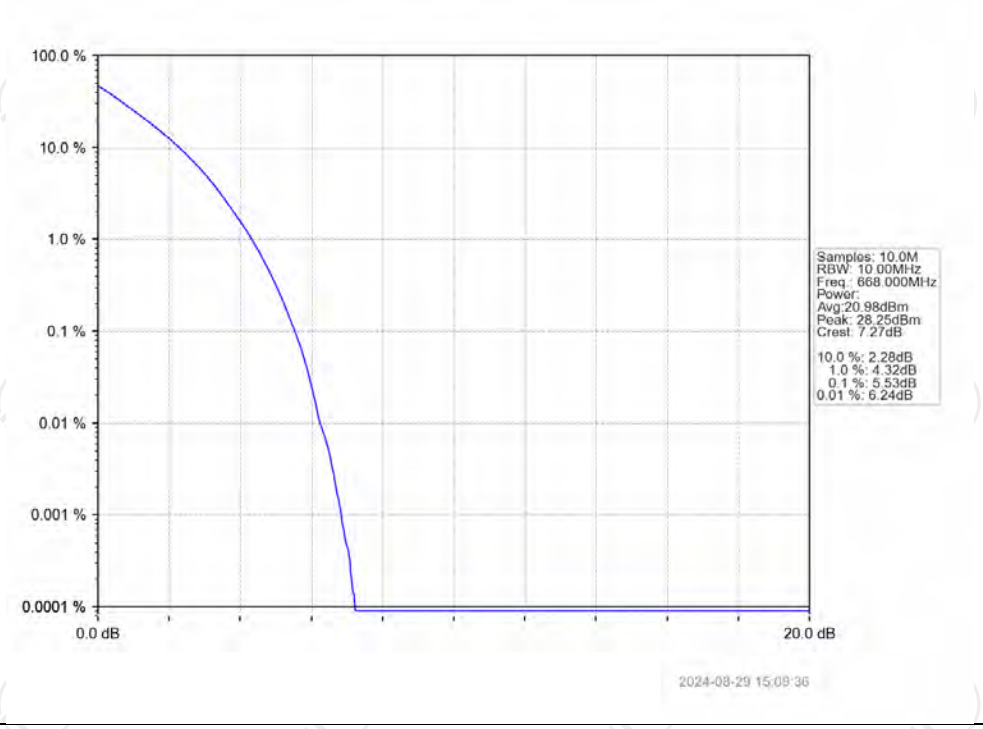
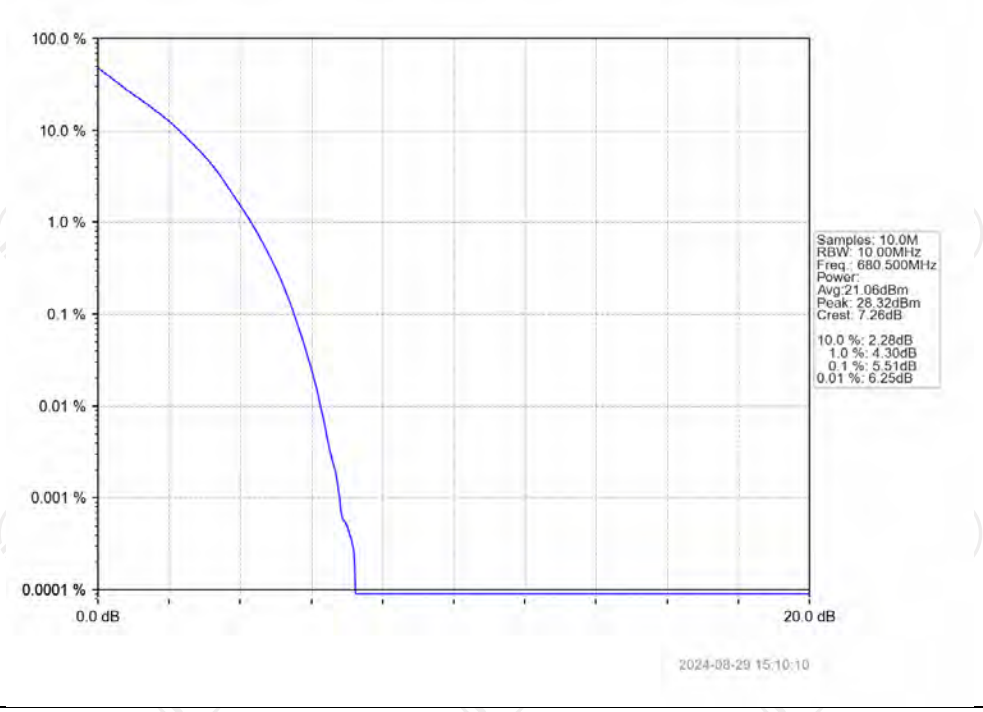
5.2.2 B71_10MHz

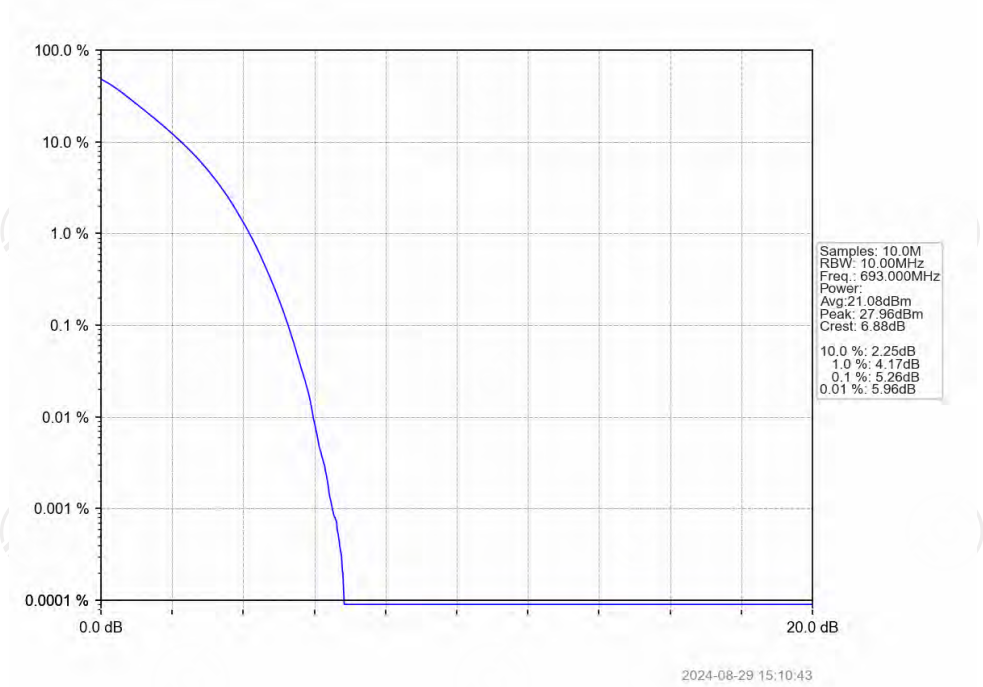
Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV



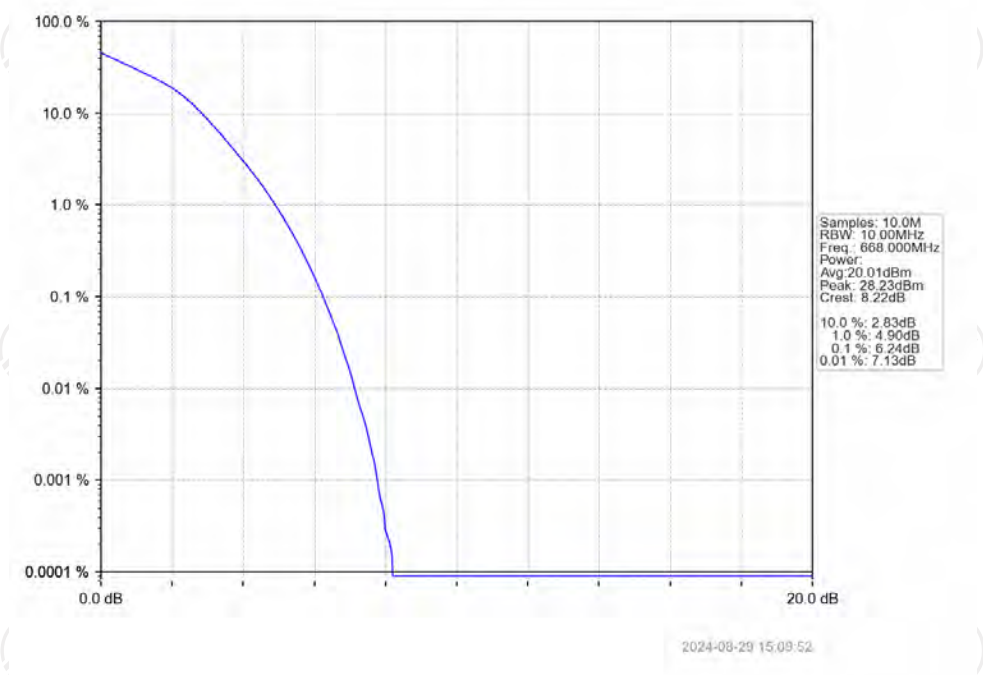
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



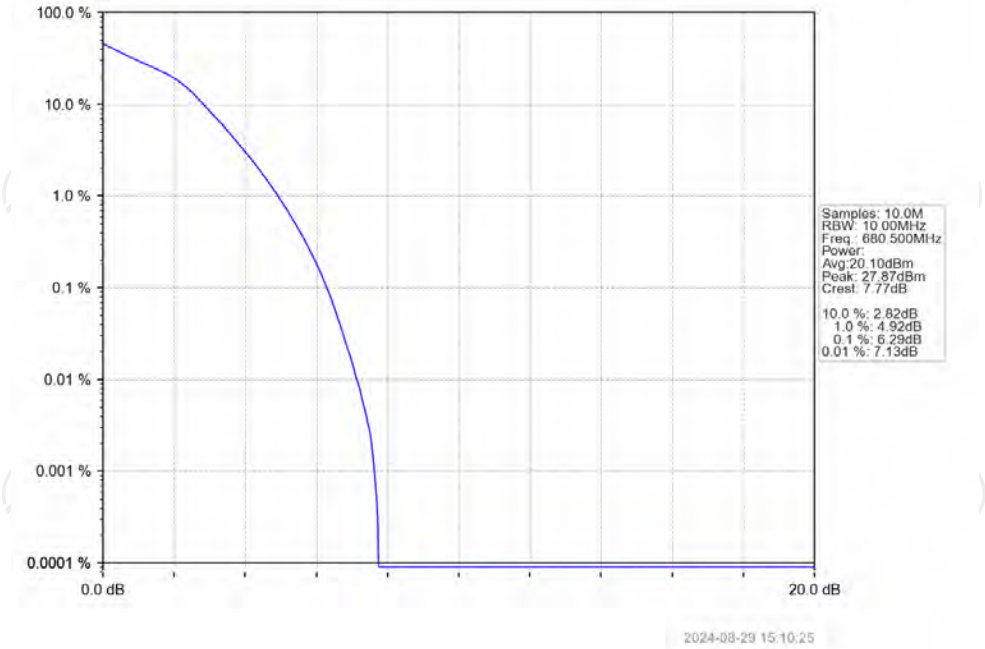
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



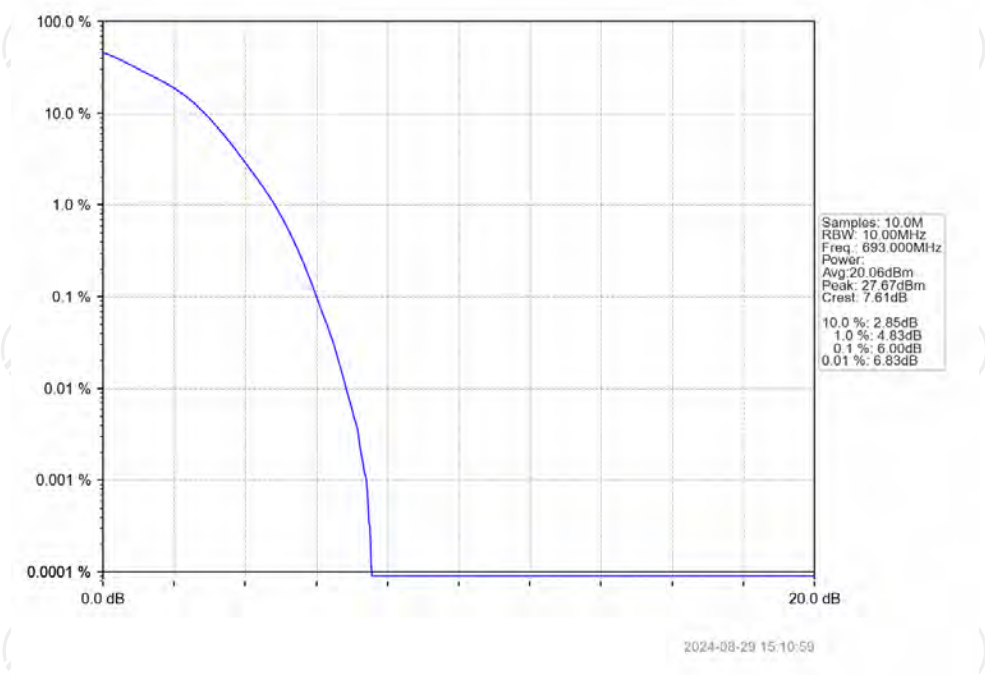
Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV

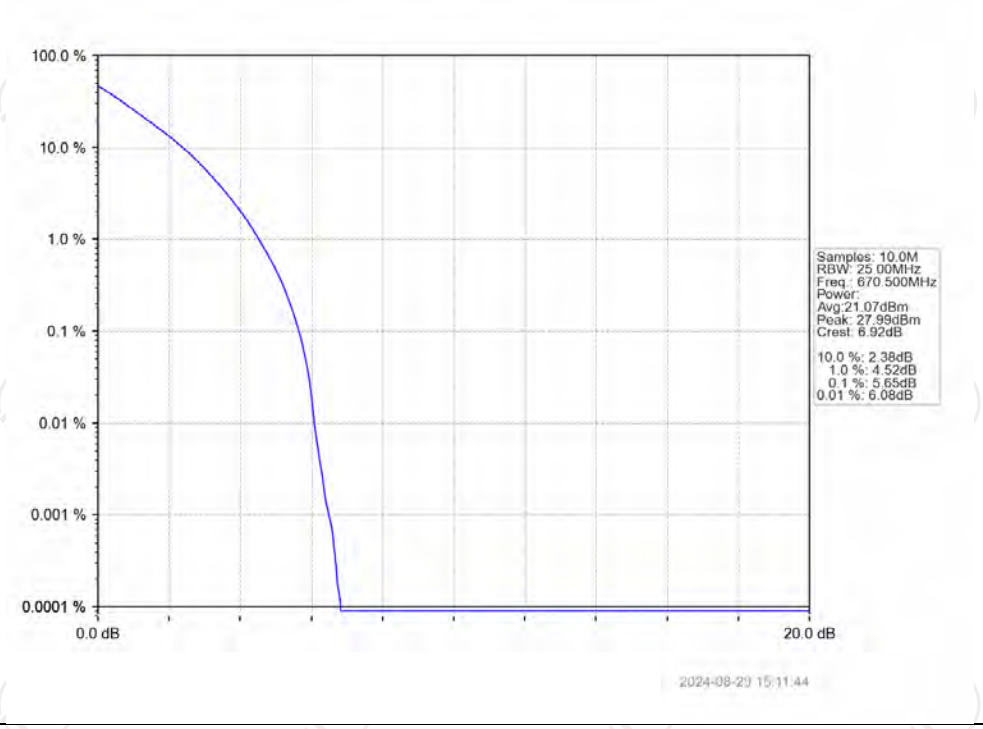


Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV

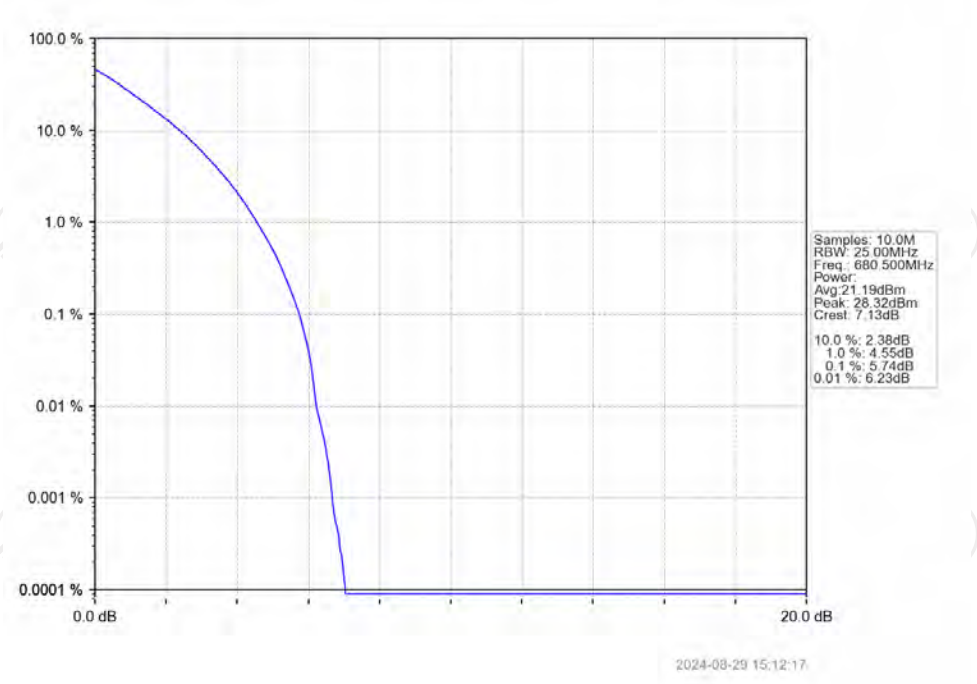


5.2.3 B71_15MHz

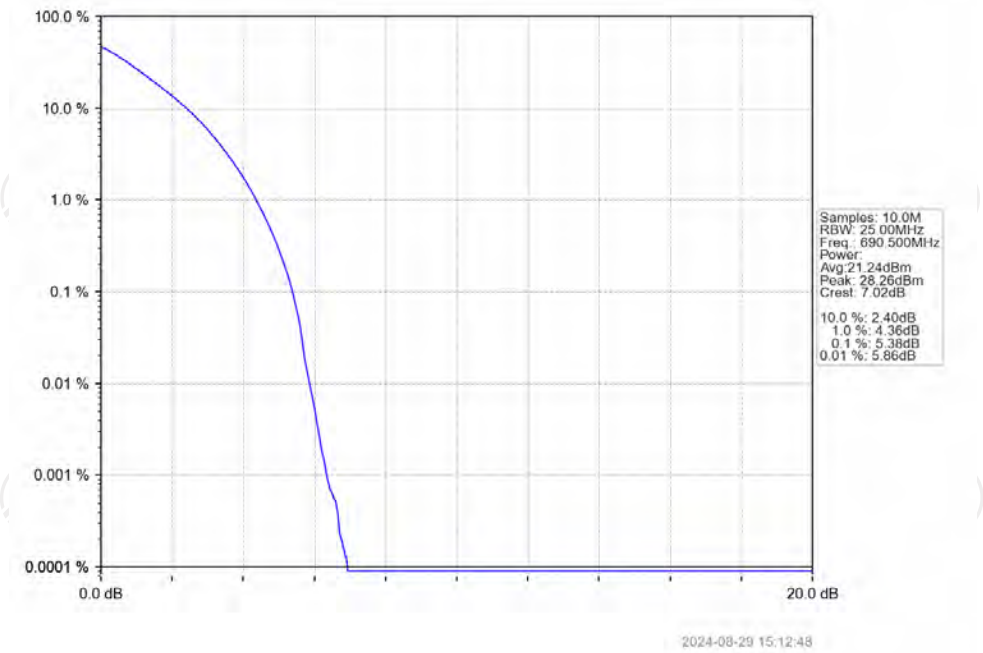
Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



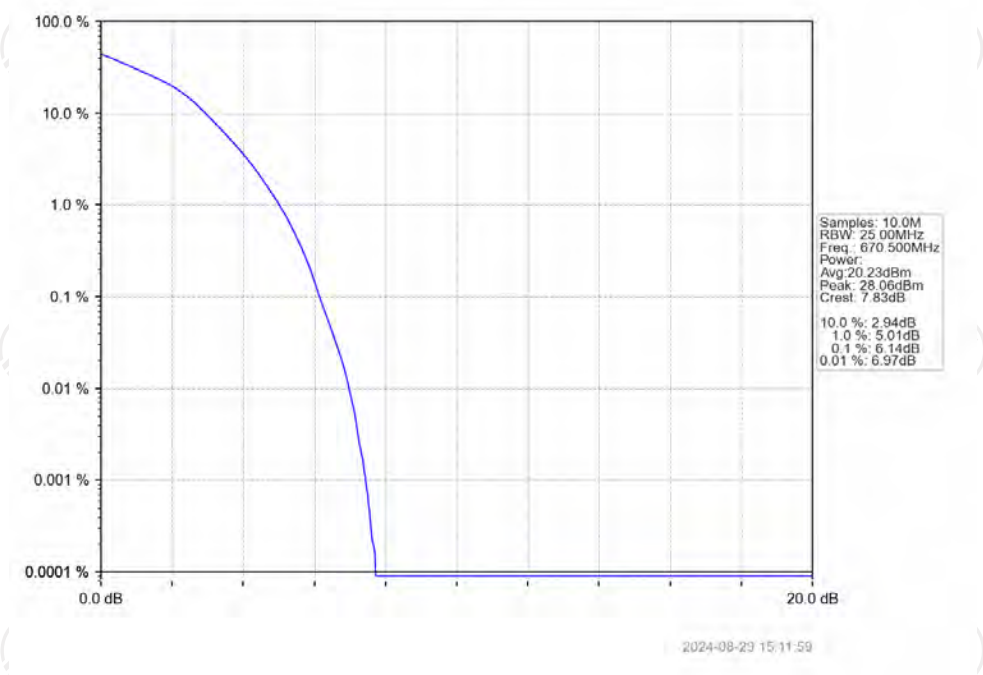
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



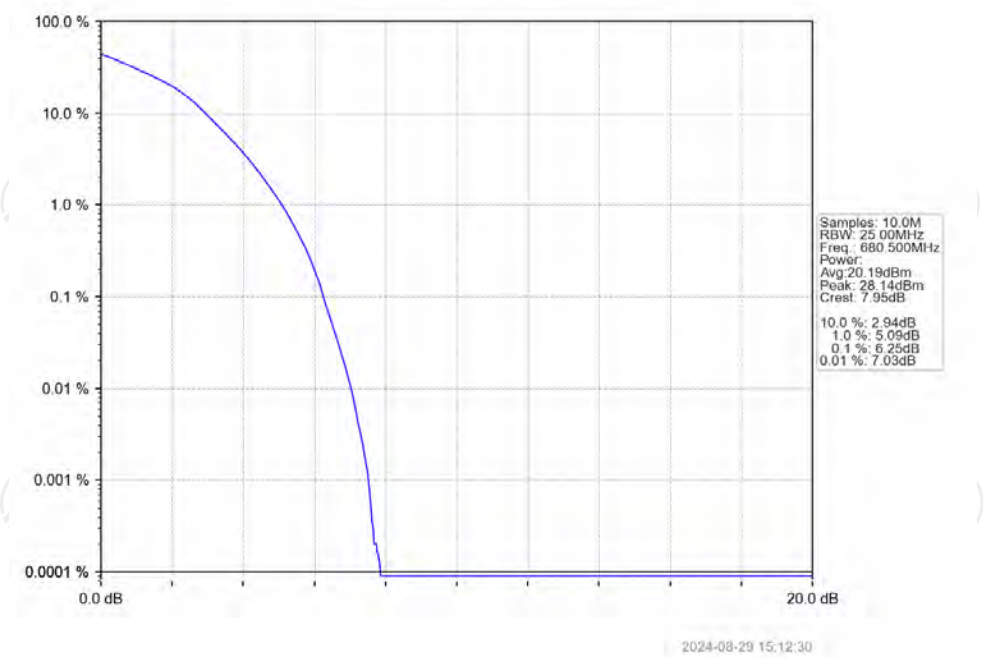
Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV



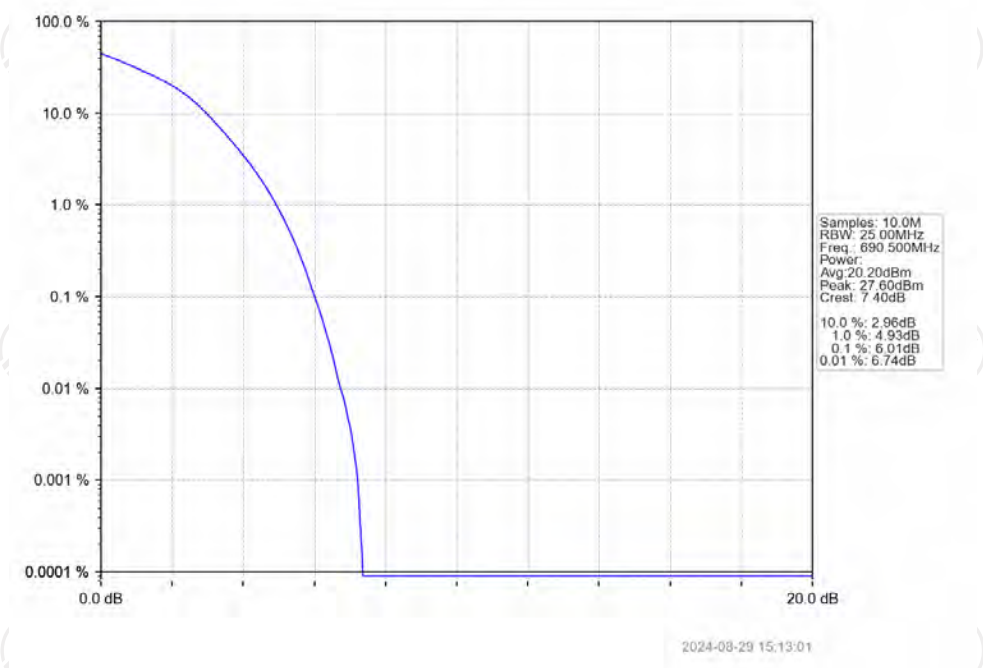
Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



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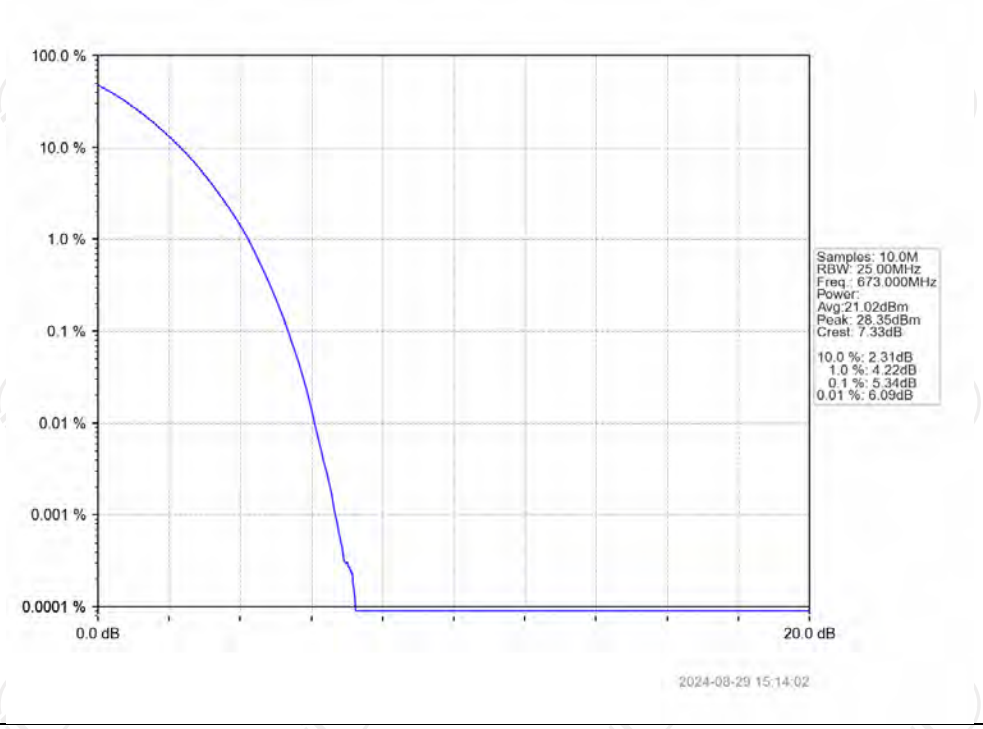
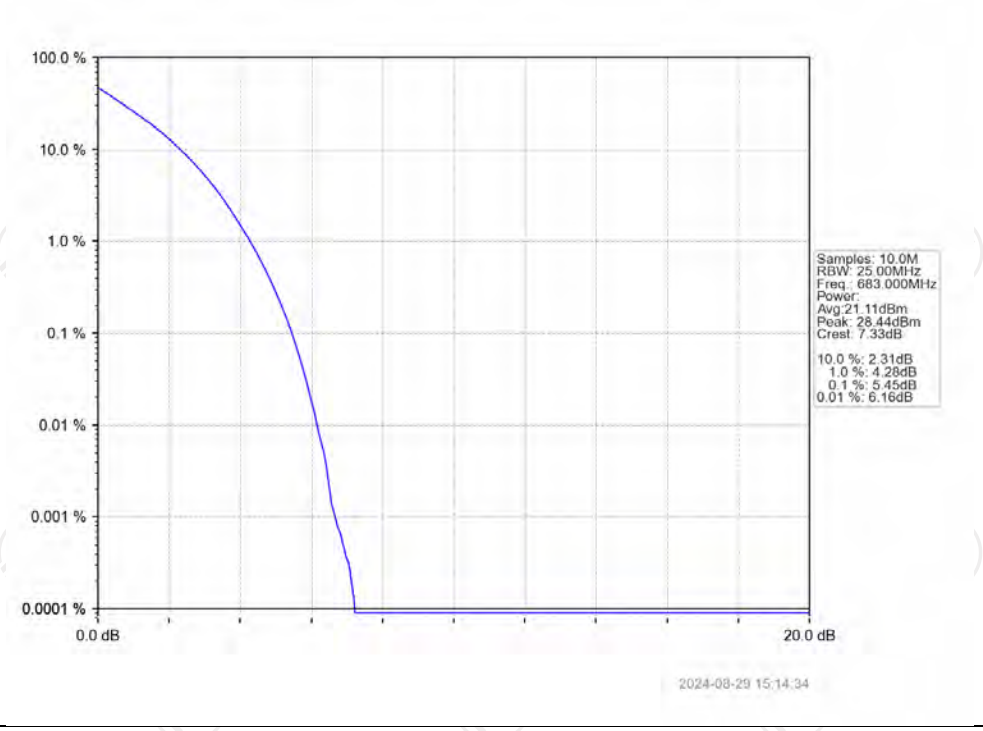
5.2.4 B71_20MHz

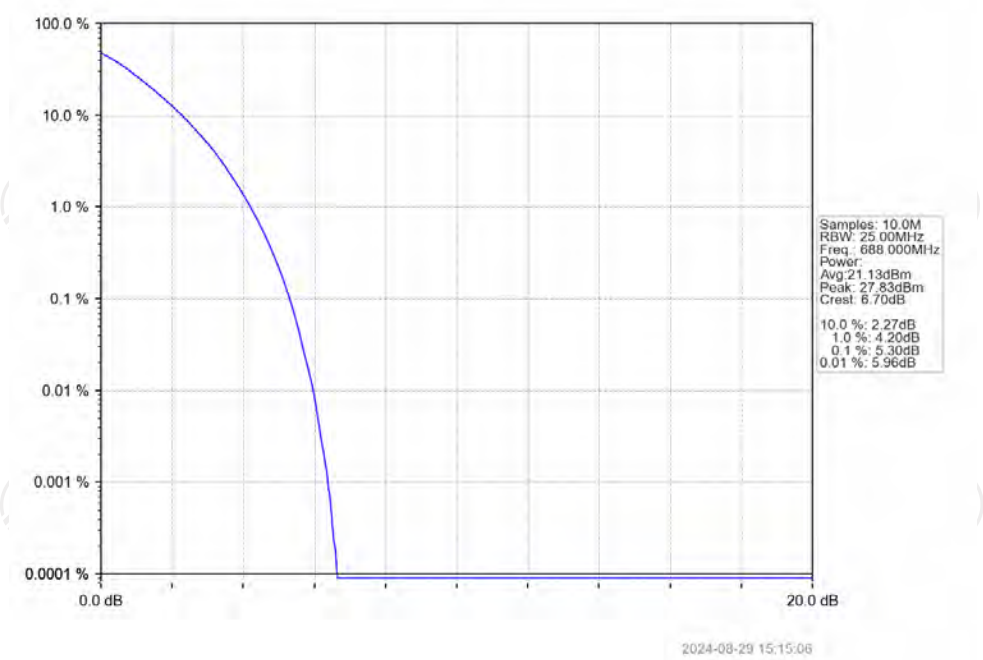
Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV



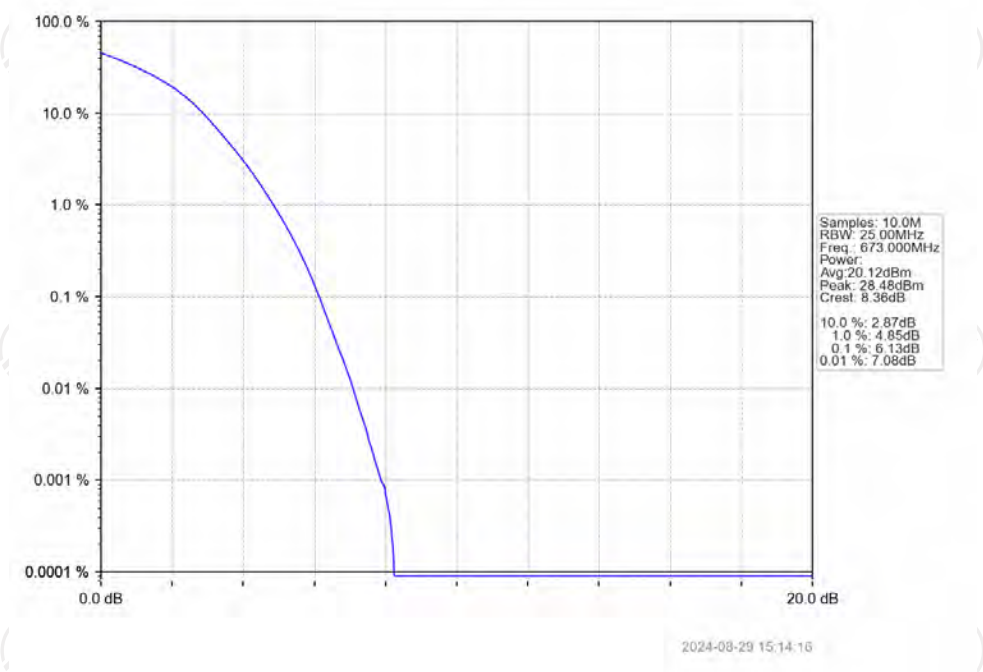
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



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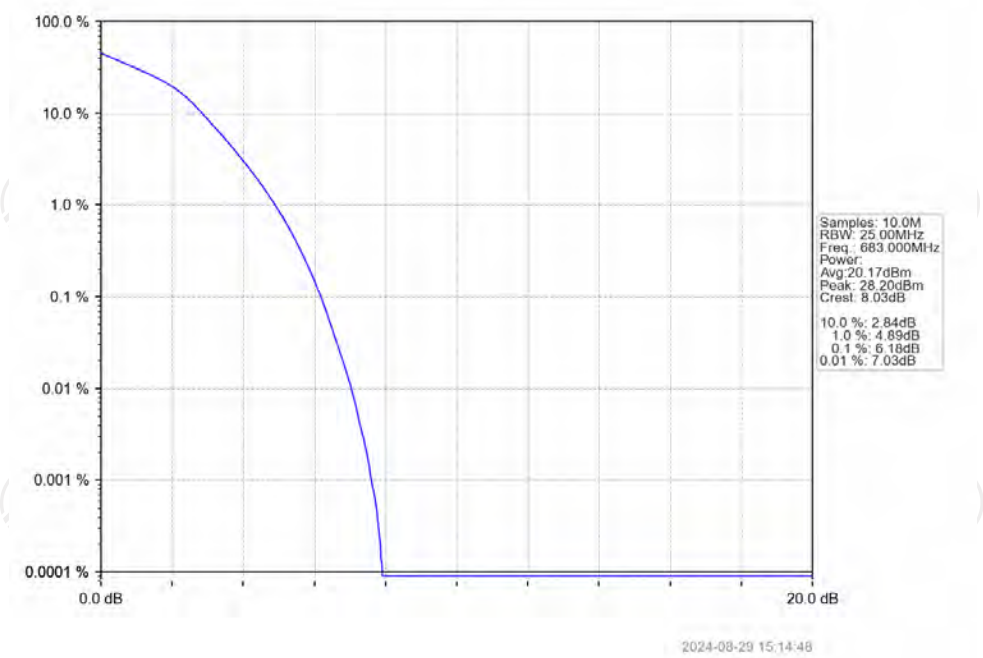
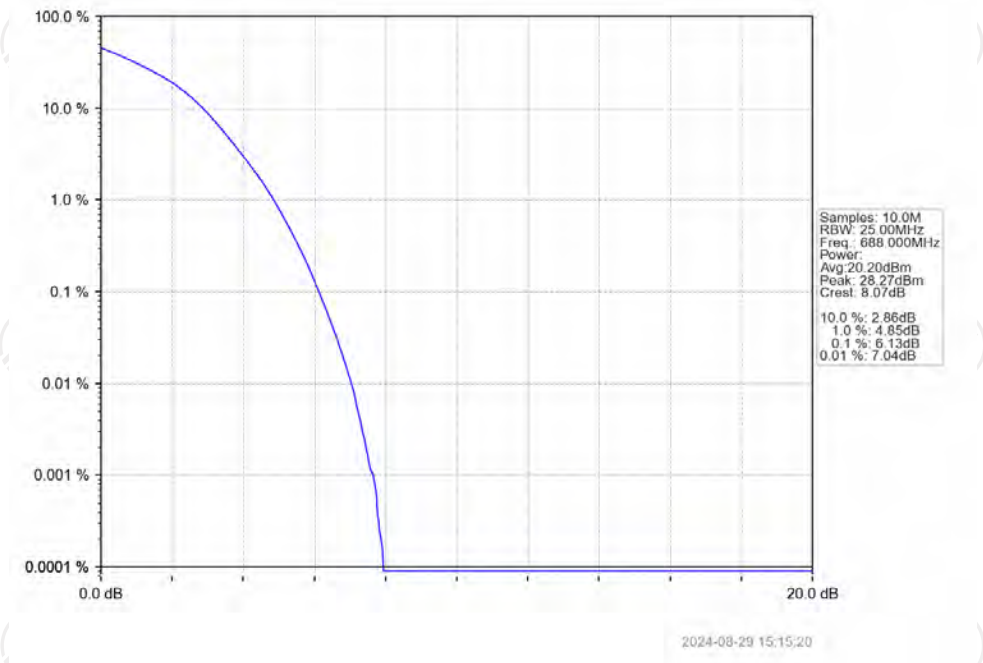
Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



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6. Spurious Emission

6.1 Test Result

6.1.1 B71_5MHz

Band: 71 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
	695.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	665.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
	695.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

6.1.2 B71_10MHz

Band: 71 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	668	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
	693	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	668	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
	693	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.1.3 B71_15MHz

Band: 71 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
	690.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	670.5	1	0	Refer To Test Graph		Pass

		75	0	Refer To Test Graph	Pass
	680.5	1	0	Refer To Test Graph	Pass
	690.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass

6.1.4 B71_20MHz

Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

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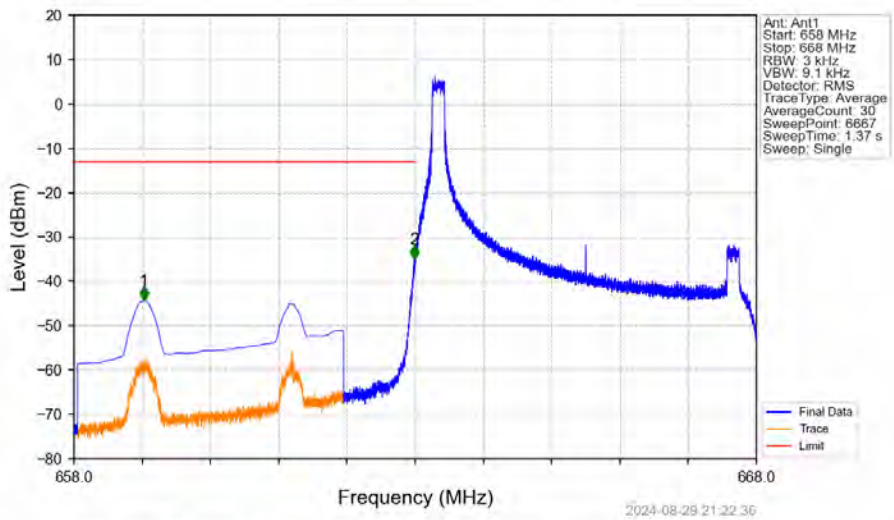
6.2 Test Graph

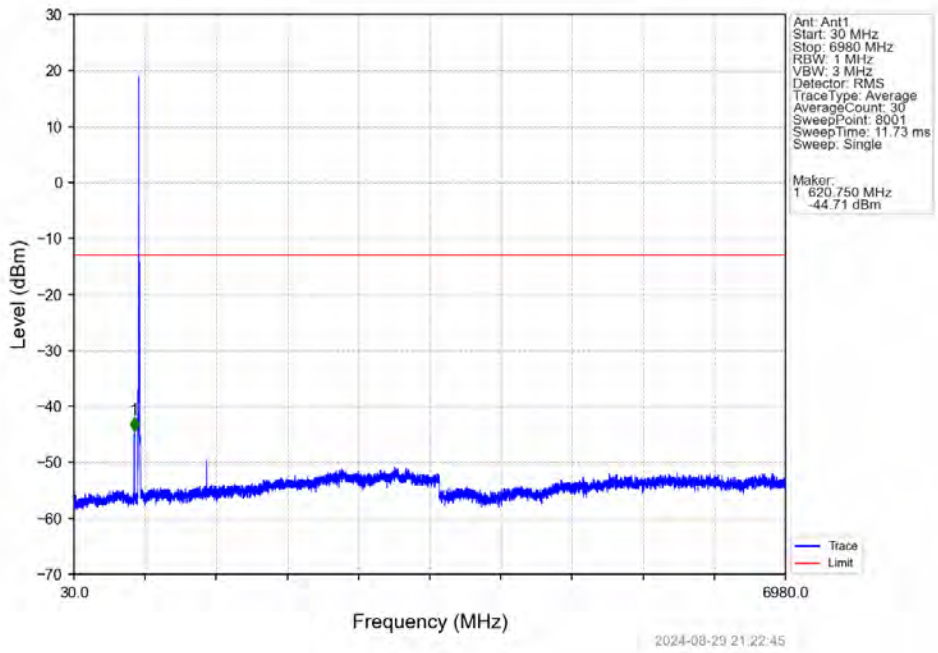
6.2.1 B71_5MHz

Band71_5MHz_QPSK_LCH_665.5MHz_RB_1_0_NTNV

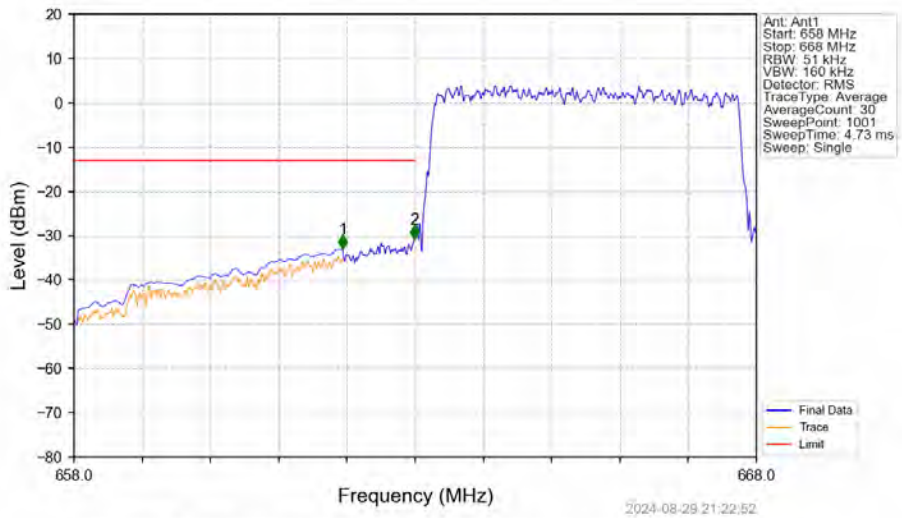


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	659.025	-44.31	-13	Pass
662	663	0.003	/	2	662.986	-35.01	-13	Pass
663	668	0.003	/	/	/	/	/	/

Band71_5MHz_QPSK_LCH_665.5MHz_RB_1_0_NTNV

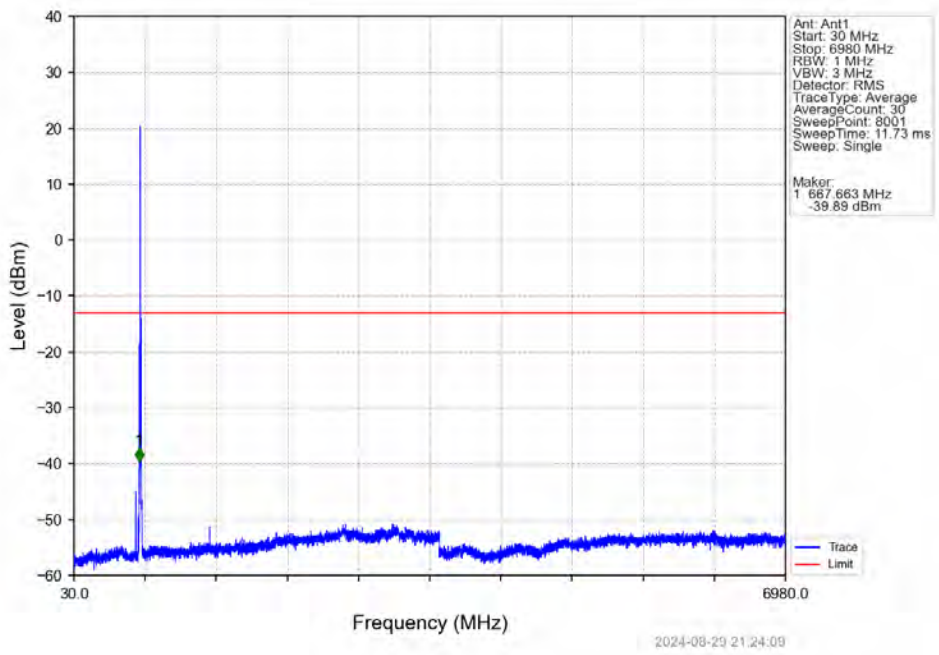


Band71_5MHz_QPSK_LCH_665.5MHz_RB_25_0_NTNV

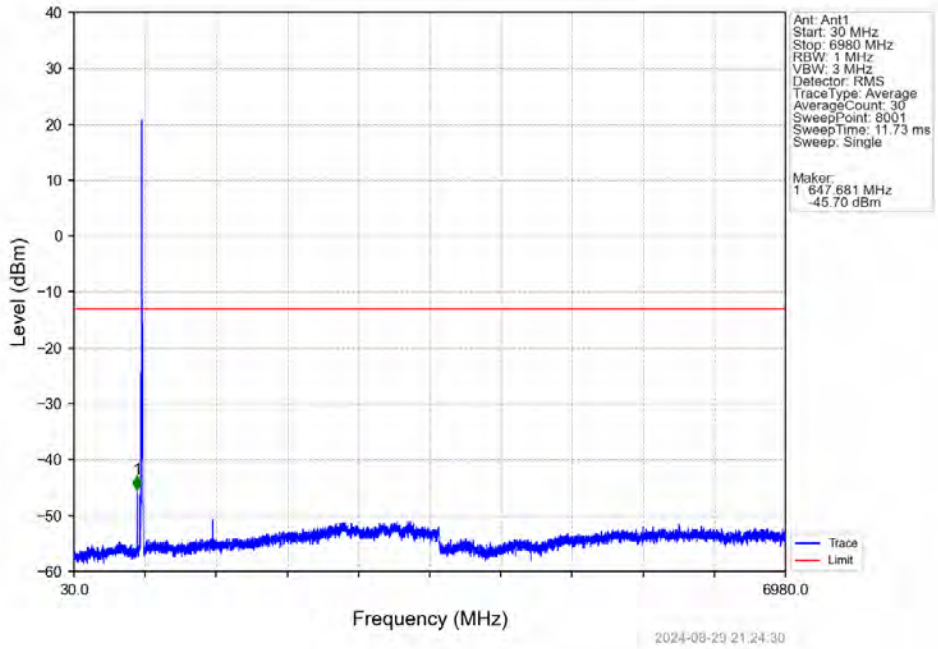


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	661.940	-33.03	-13	Pass
662	663	0.051	/	2	662.990	-30.68	-13	Pass
663	668	0.051	/	/	/	/	/	/

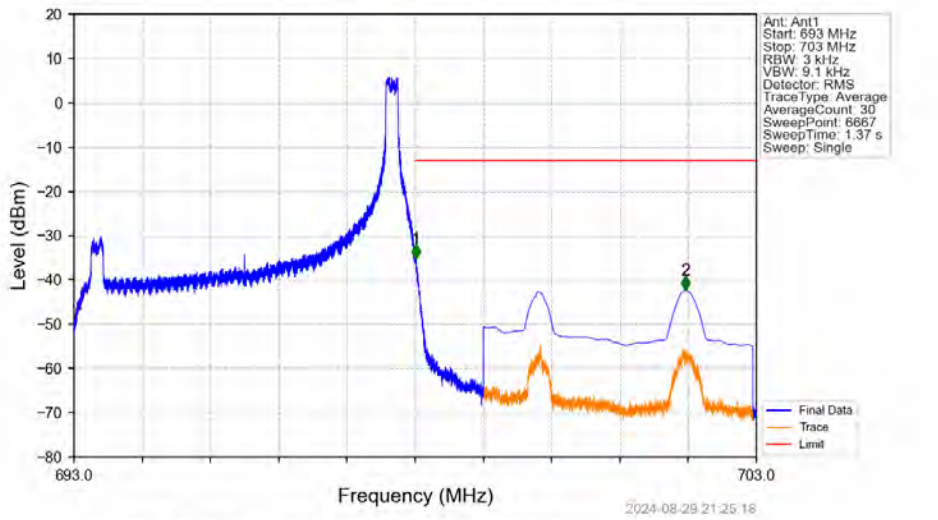
Band71_5MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_0_NTNV

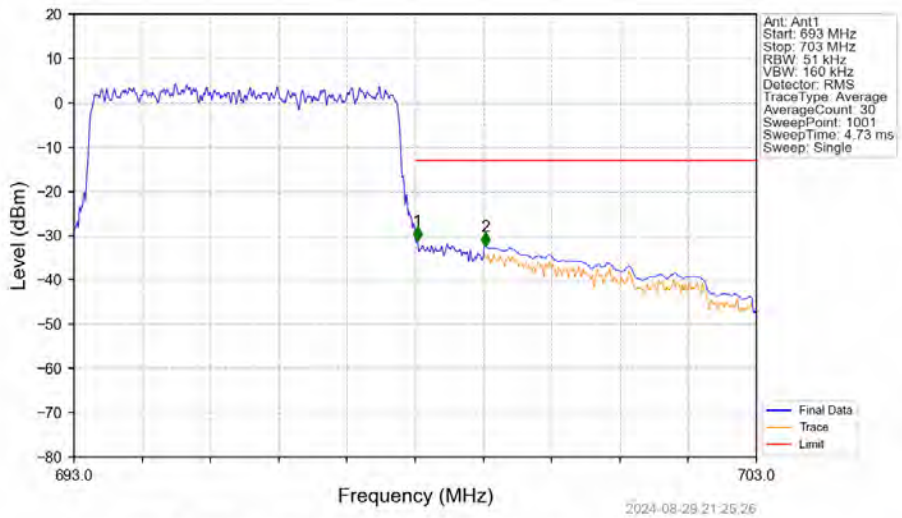


Band71_5MHz_QPSK_HCH_695.5MHz_RB_1_24_NTNV



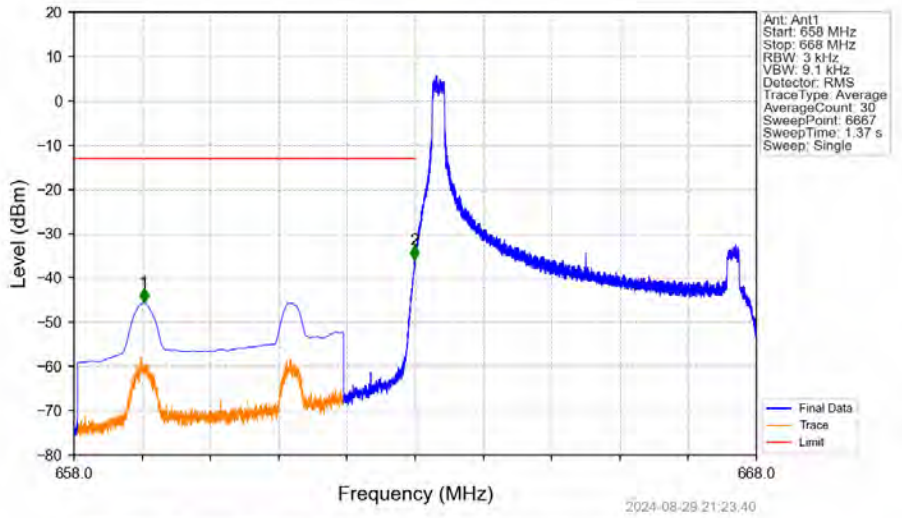
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.009	-35.06	-13	Pass
699	703	0.1	CHP	2	701.957	-42.27	-13	Pass

Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



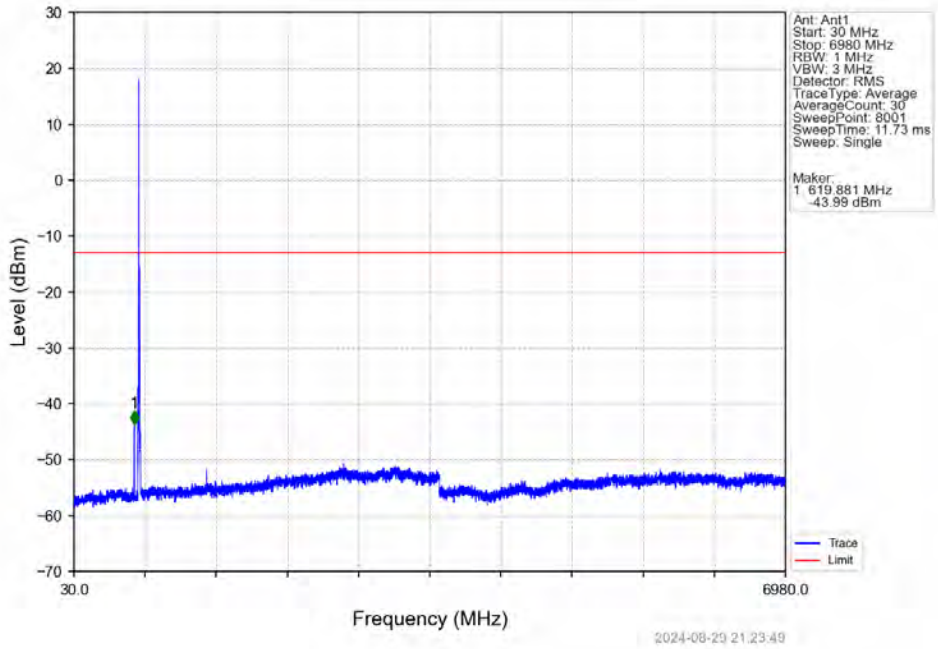
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.051	/	/	/	/	/	/
698	699	0.051	/	1	698.030	-31.11	-13	Pass
699	703	0.1	CHP	2	699.030	-32.46	-13	Pass

Band71_5MHz_16QAM_LCH_665.5MHz_RB_1_0_NTNV

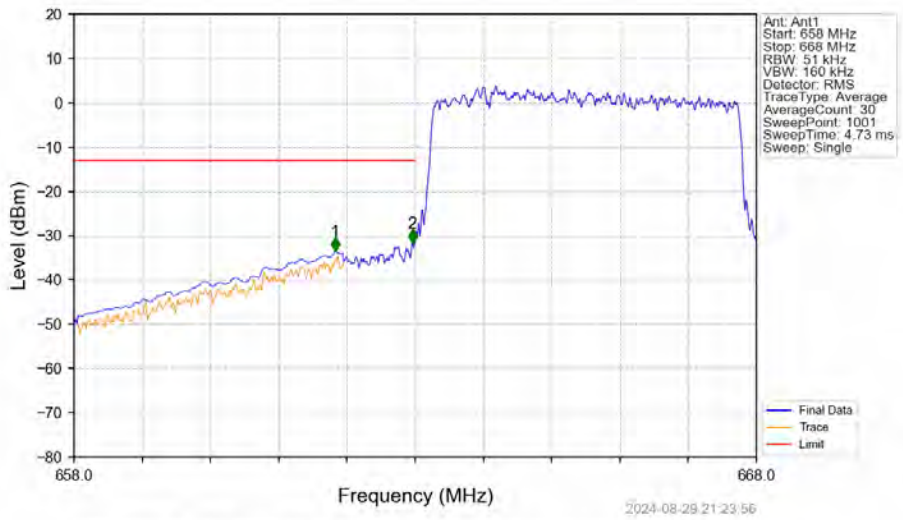


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	659.025	-45.52	-13	Pass
662	663	0.003	/	2	662.991	-35.95	-13	Pass
663	668	0.003	/	/	/	/	/	/

Band71_5MHz_16QAM_LCH_665.5MHz_RB_1_0_NTNV



Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	661.830	-33.54	-13	Pass
662	663	0.051	/	2	662.960	-31.61	-13	Pass
663	668	0.051	/	/	/	/	/	/

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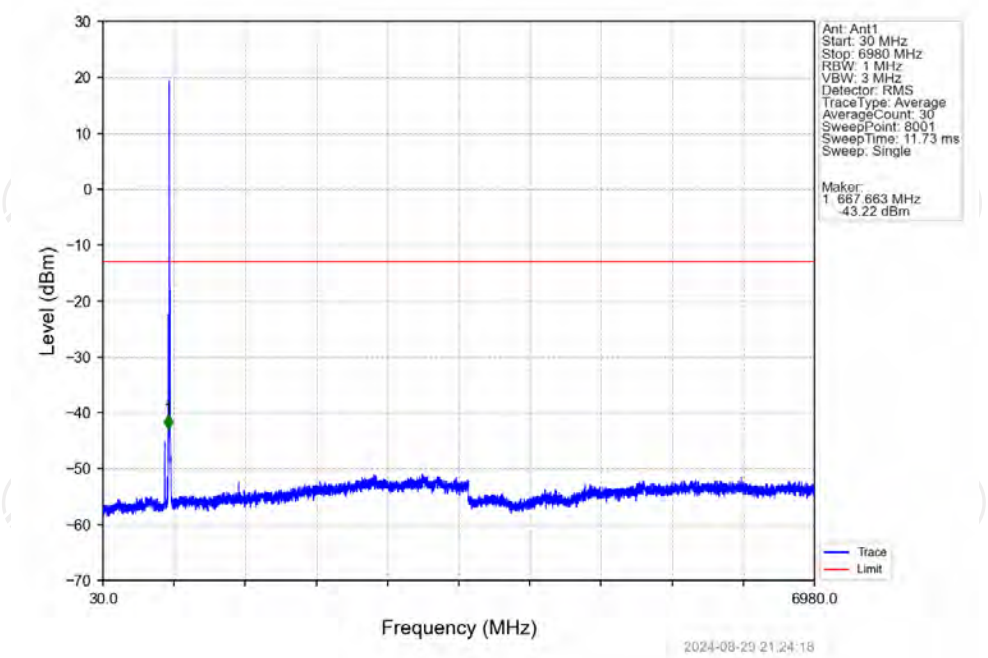
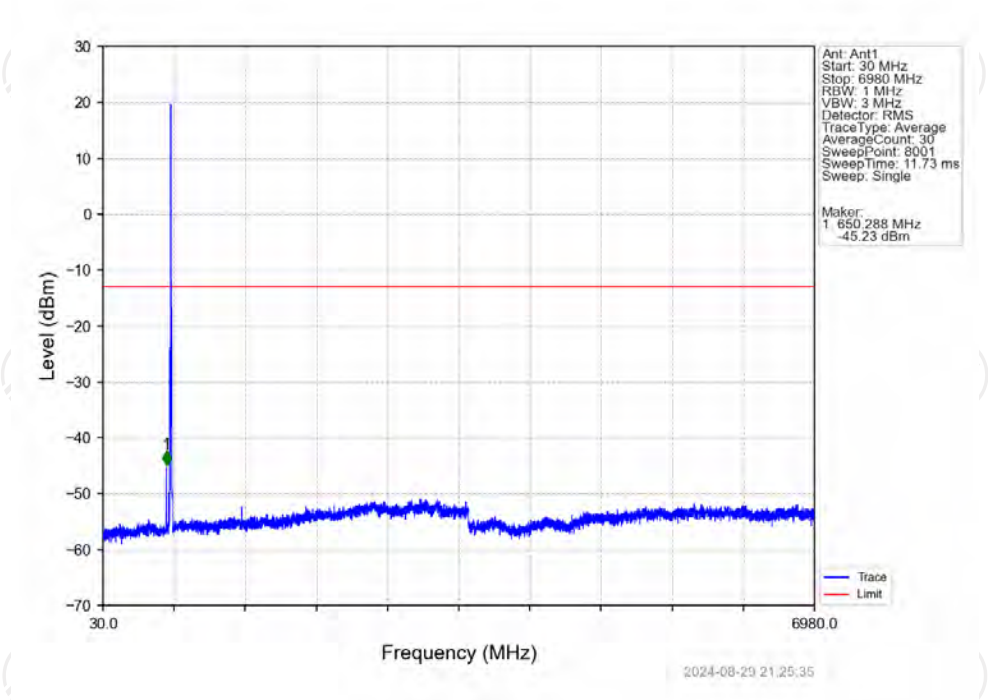
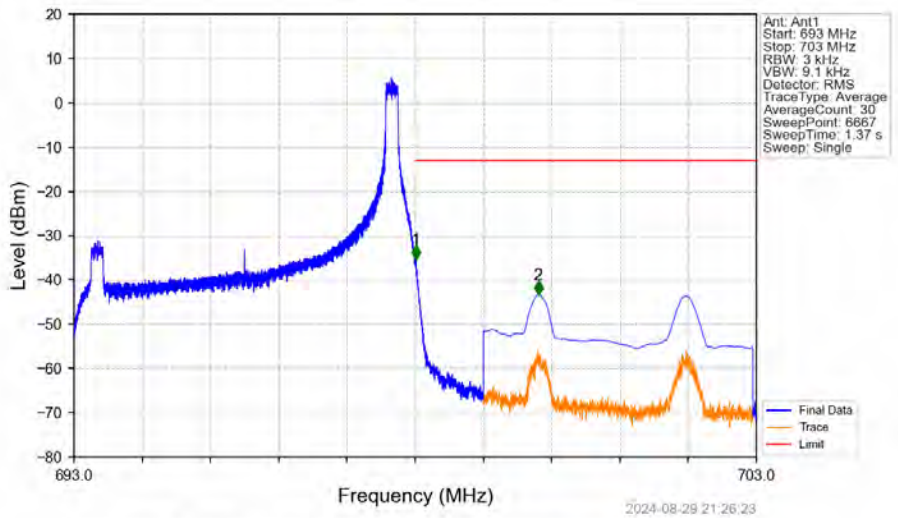
Band71_5MHz_16QAM_MCH_680.5MHz_RB_1_0_NTNV



Band71_5MHz_16QAM_HCH_695.5MHz_RB_1_0_NTNV

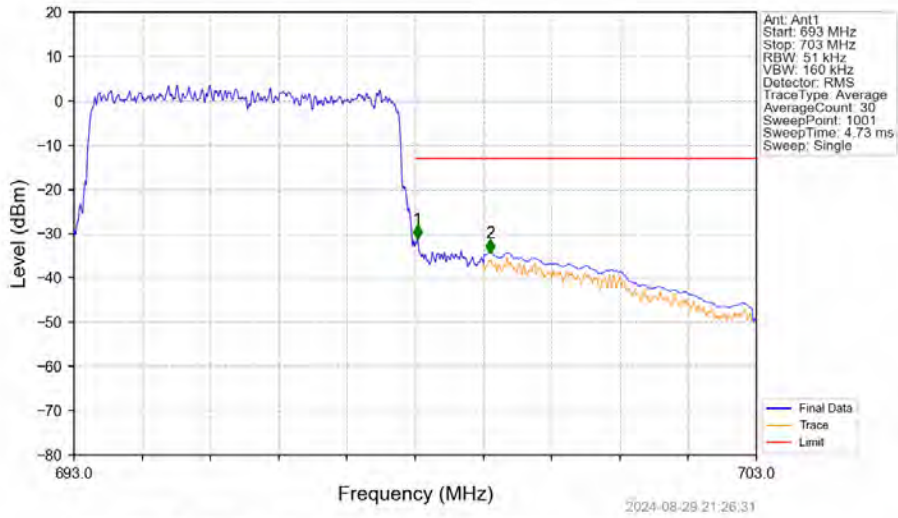


Band71_5MHz_16QAM_HCH_695.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.012	-35.31	-13	Pass
699	703	0.1	CHP	2	699.805	-43.33	-13	Pass

Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV

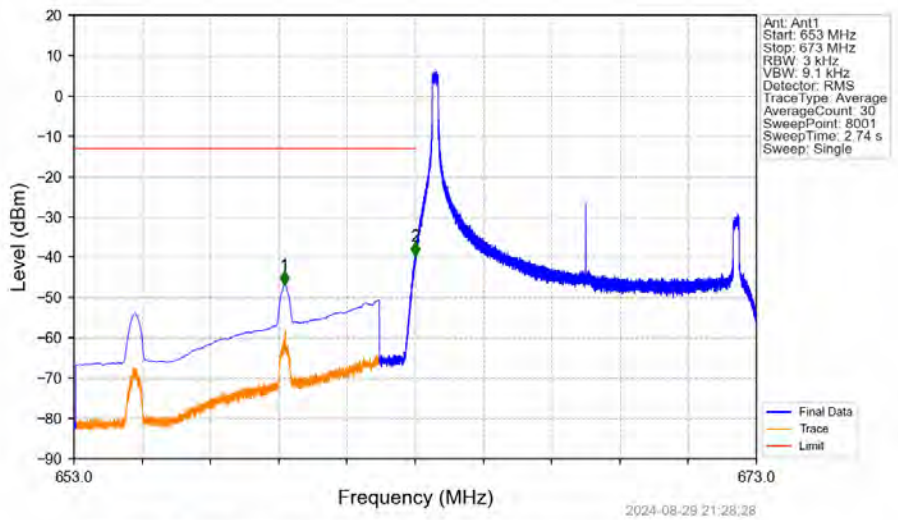


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.051	/	/	/	/	/	/
698	699	0.051	/	1	698.030	-31.06	-13	Pass
699	703	0.1	CHP	2	699.100	-34.32	-13	Pass

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

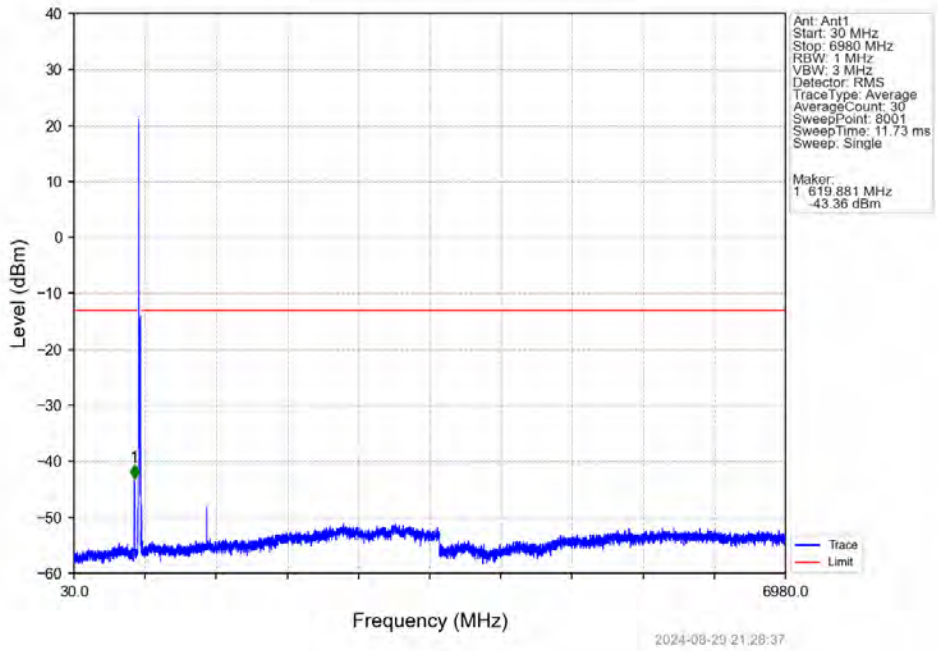
6.2.2 B71_10MHz

Band71_10MHz_QPSK_LCH_668MHz_RB_1_0_NTNV

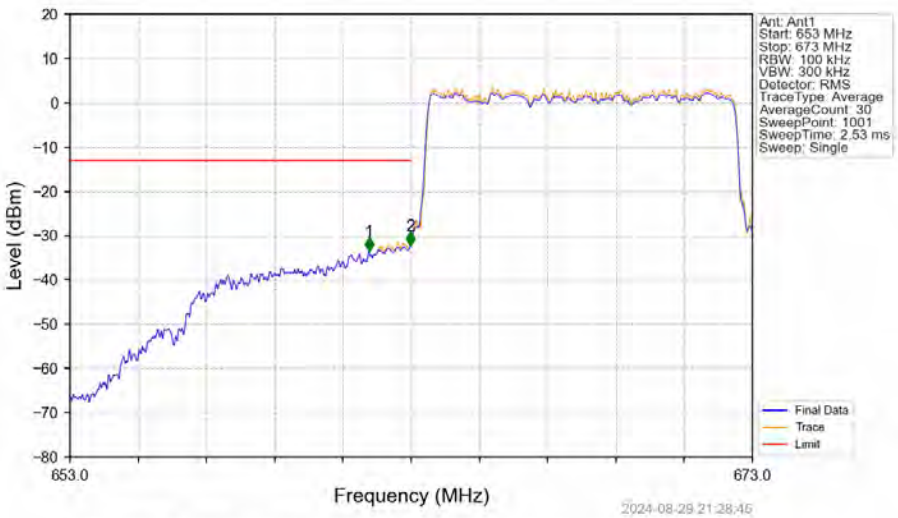


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662	0.1	CHP	1	659.163	-46.90	-13	Pass
662	663	0.003	/	2	662.997	-39.71	-13	Pass
663	673	0.003	/	/	/	/	/	/

Band71_10MHz_QPSK_LCH_668MHz_RB_1_0_NTNV

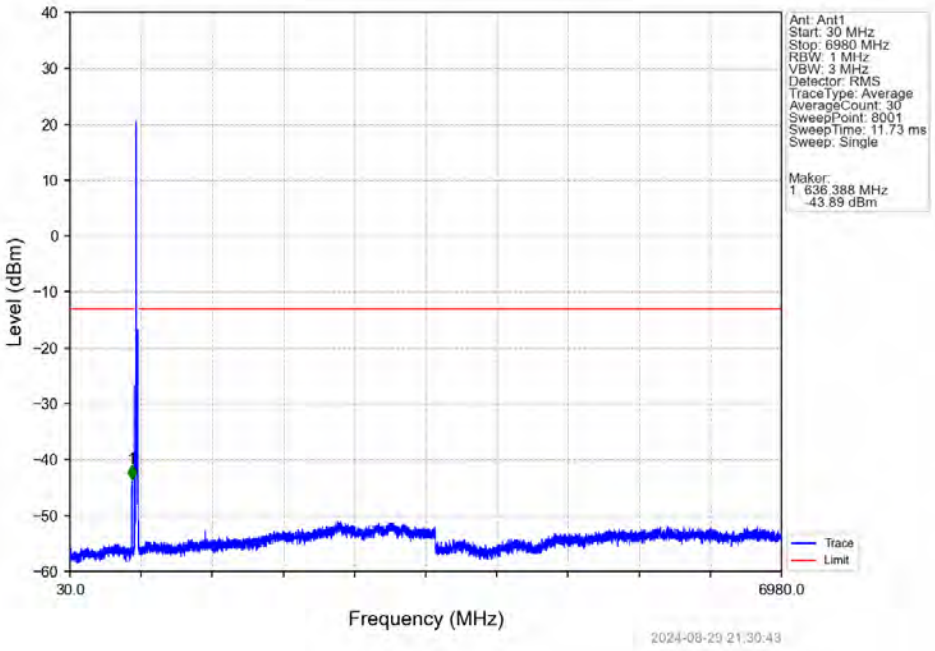


Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV

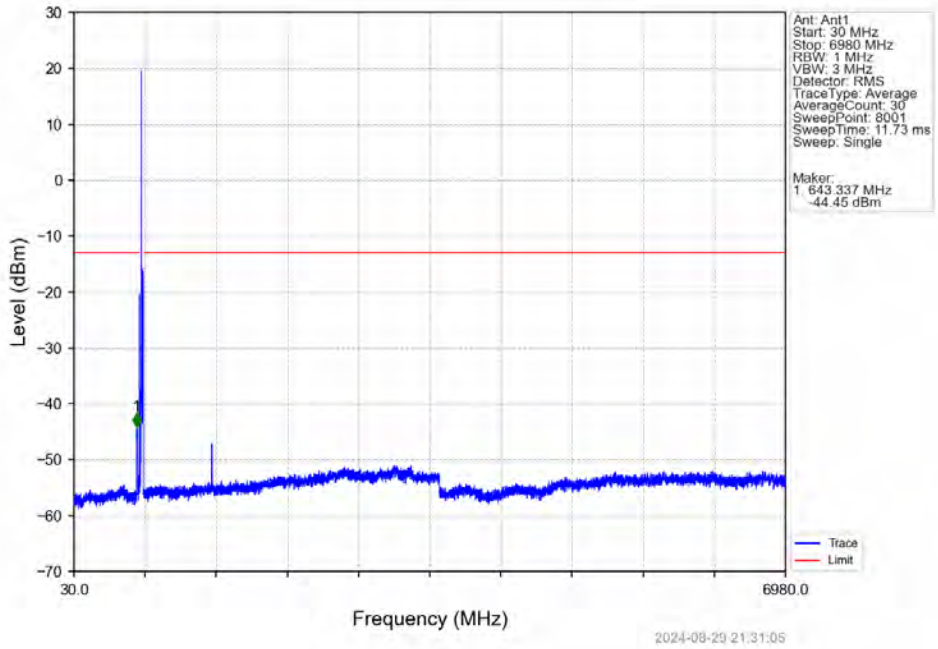


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662	0.1	/	1	661.760	-33.47	-13	Pass
662	663	0.102	CHP	2	662.980	-32.17	-13	Pass
663	673	0.102	CHP	/	/	/	/	/

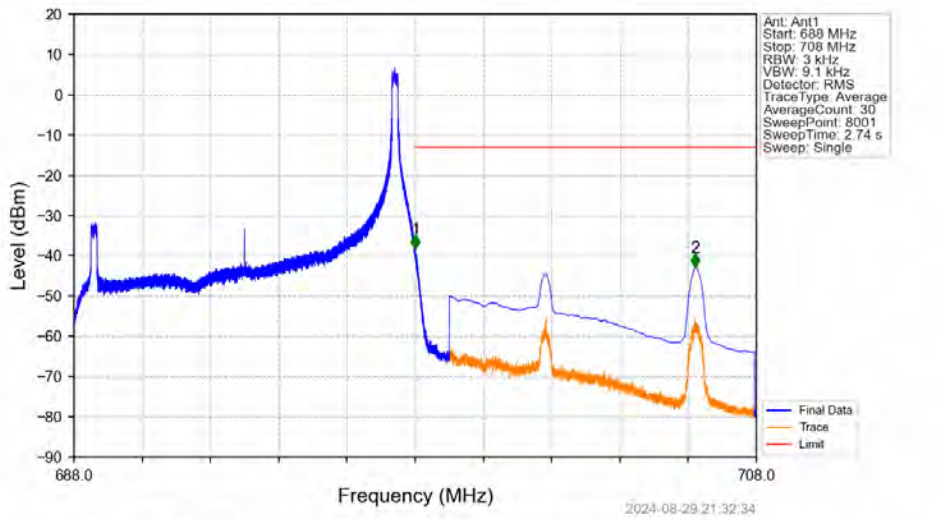
Band71_10MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_10MHz_QPSK_HCH_693MHz_RB_1_0_NTNV



Band71_10MHz_QPSK_HCH_693MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.010	-38.32	-13	Pass
699	708	0.1	CHP	2	706.212	-42.89	-13	Pass

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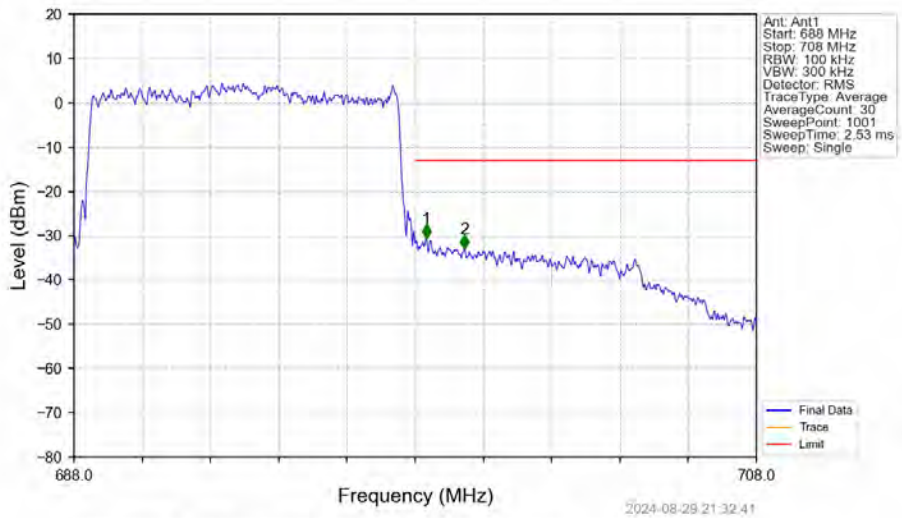
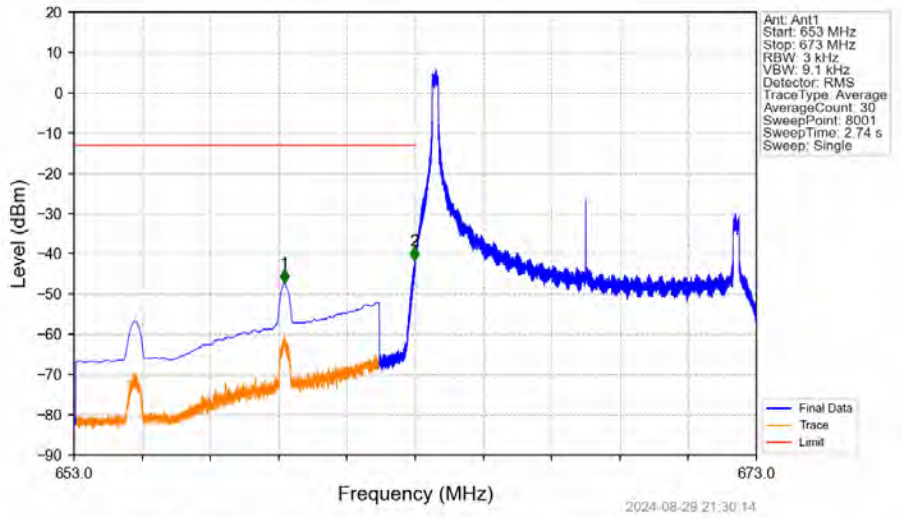
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



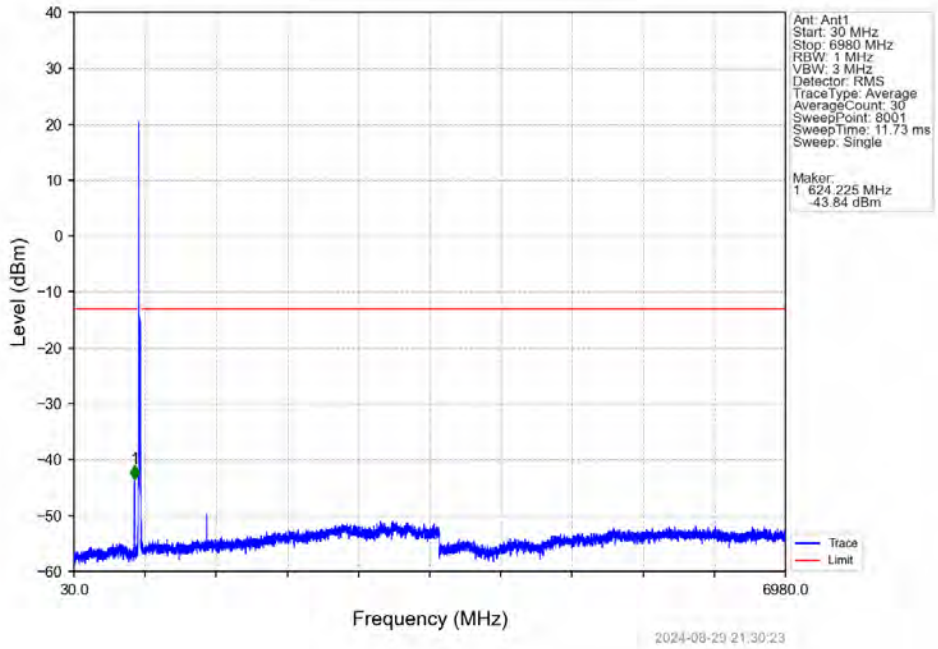
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.1	/	/	/	/	/	/
698	699	0.1	/	1	698.320	-30.51	-13	Pass
699	708	0.1	/	2	699.440	-33.03	-13	Pass

Band71_10MHz_16QAM_LCH_668MHz_RB_1_0_NTNV

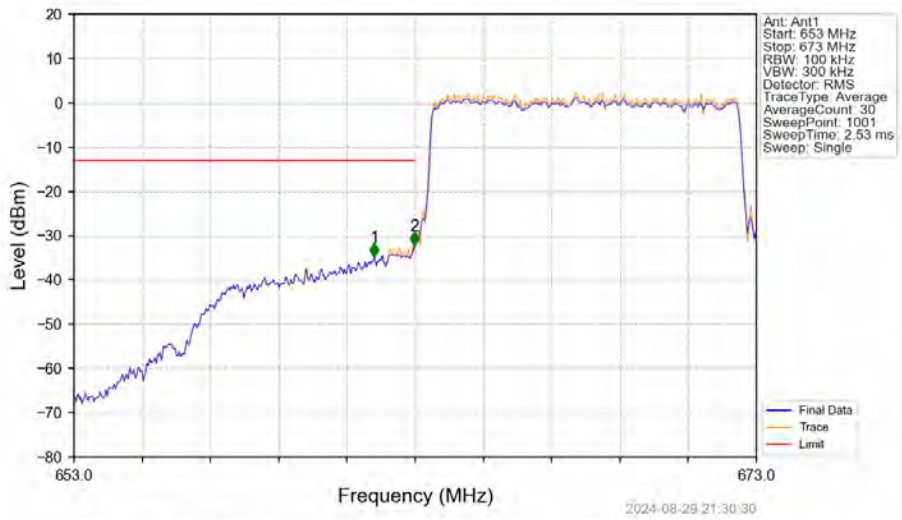


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662	0.1	CHP	1	659.163	-47.33	-13	Pass
662	663	0.003	/	2	662.985	-41.65	-13	Pass
663	673	0.003	/	/	/	/	/	/

Band71_10MHz_16QAM_LCH_668MHz_RB_1_0_NTNV



Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662	0.1	/	1	661.800	-34.69	-13	Pass
662	663	0.101	CHP	2	662.980	-32.18	-13	Pass
663	673	0.101	CHP	/	/	/	/	/

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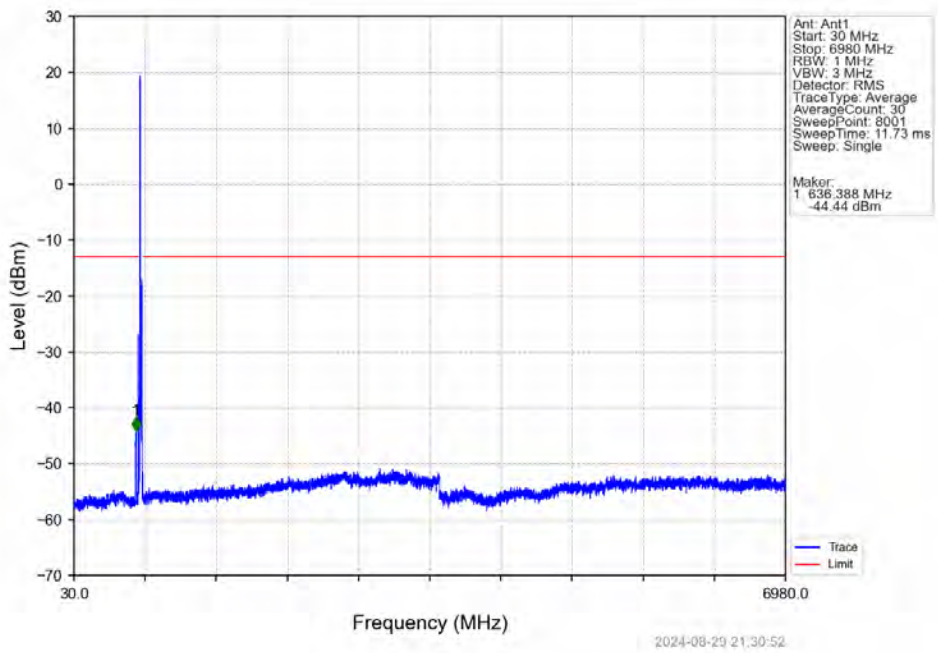
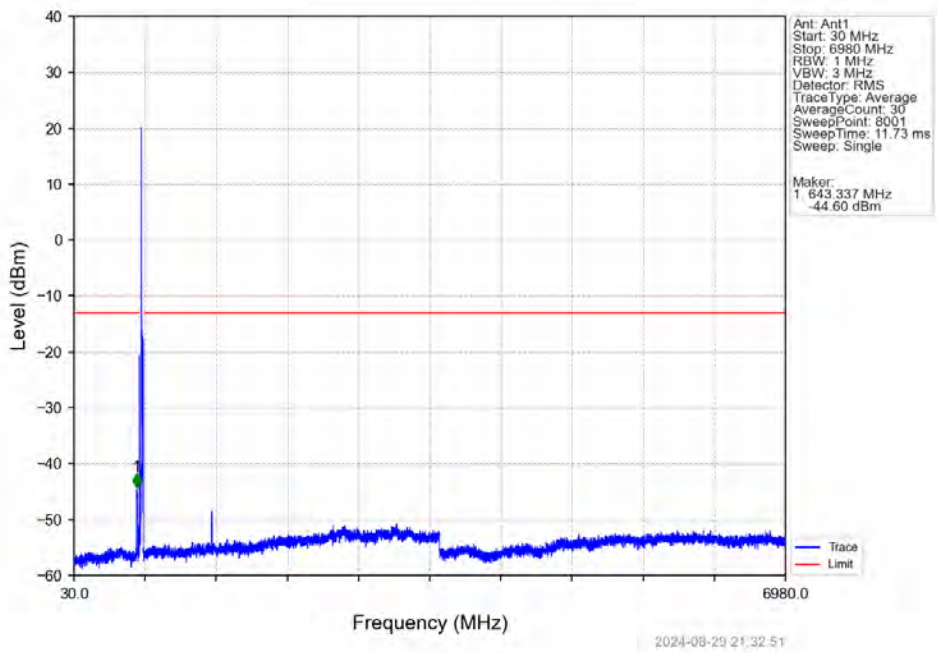
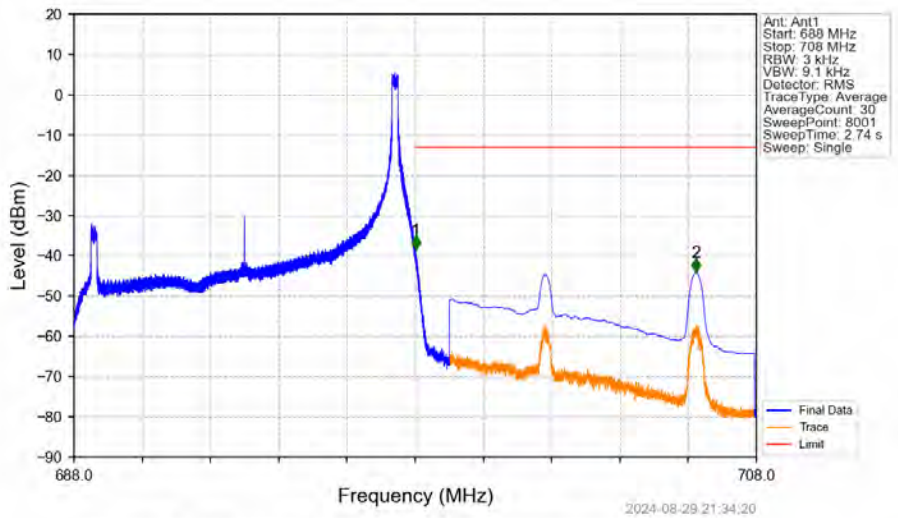
Band71_10MHz_16QAM_MCH_680.5MHz_RB_1_0_NTNV



Band71_10MHz_16QAM_HCH_693MHz_RB_1_0_NTNV

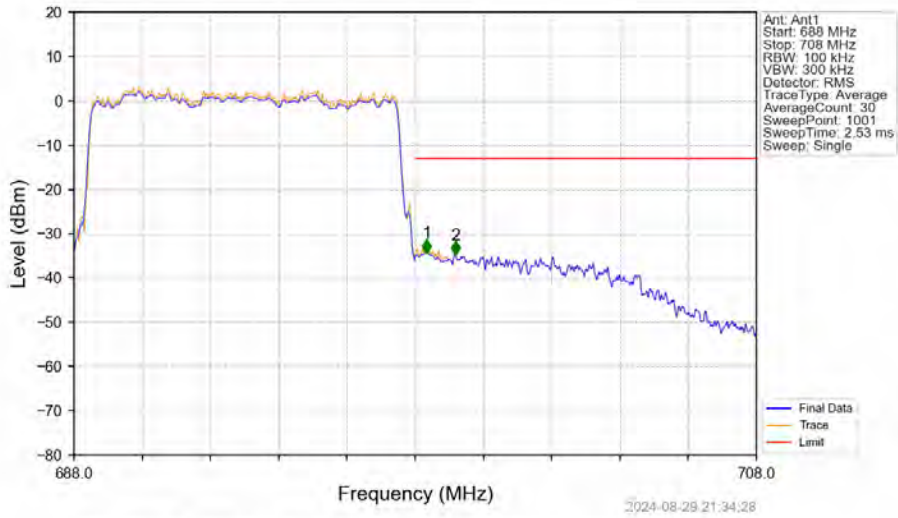


Band71_10MHz_16QAM_HCH_693MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.015	-38.37	-13	Pass
699	708	0.1	CHP	2	706.220	-44.07	-13	Pass

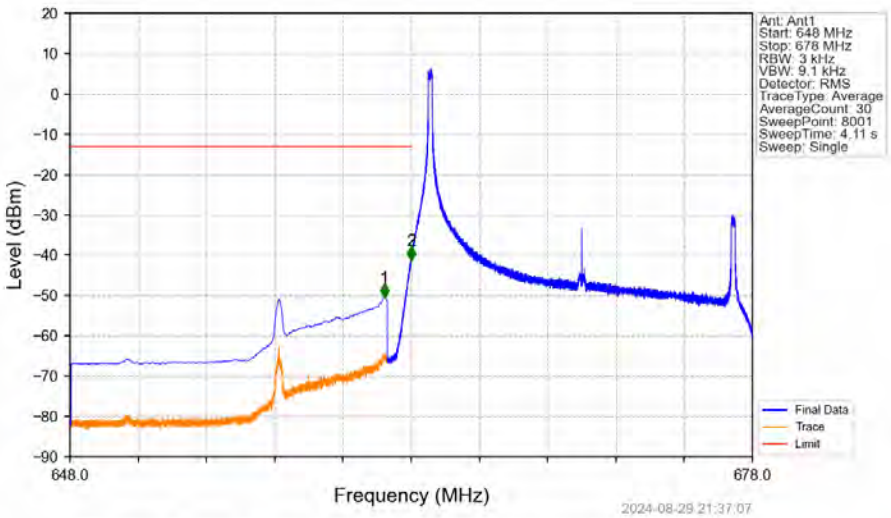
Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.101	CHP	/	/	/	/	/
698	699	0.101	CHP	1	698.340	-34.32	-13	Pass
699	708	0.1	/	2	699.180	-34.72	-13	Pass

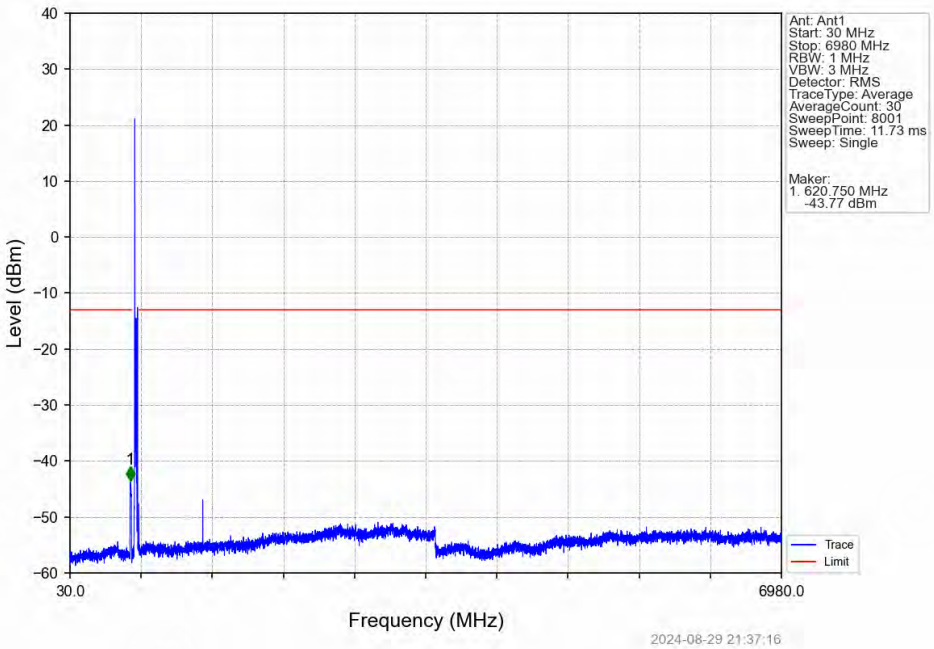
6.2.3 B71_15MHz

Band71_15MHz_QPSK_LCH_670.5MHz_RB_1_0_NTNV

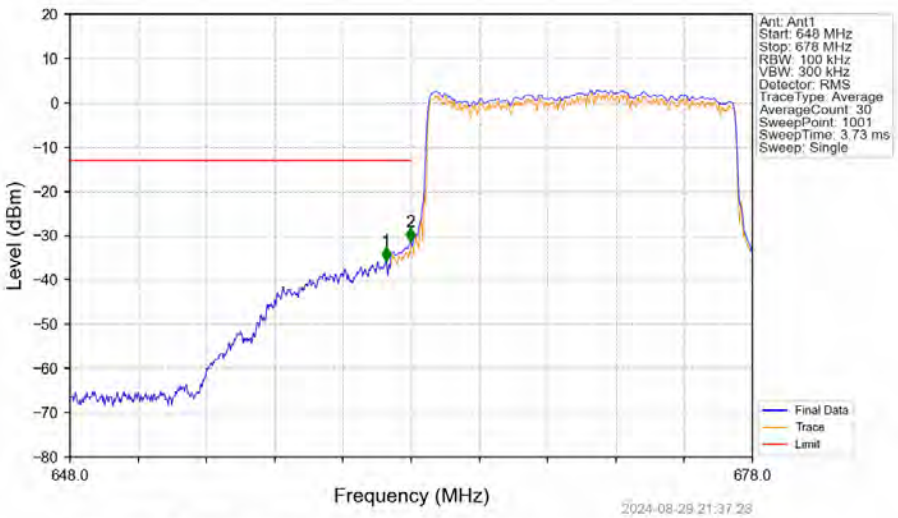


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	CHP	1	661.815	-50.50	-13	Pass
662	663	0.003	/	2	662.996	-41.24	-13	Pass
663	678	0.003	/	/	/	/	/	/

Band71_15MHz_QPSK_LCH_670.5MHz_RB_1_0_NTNV

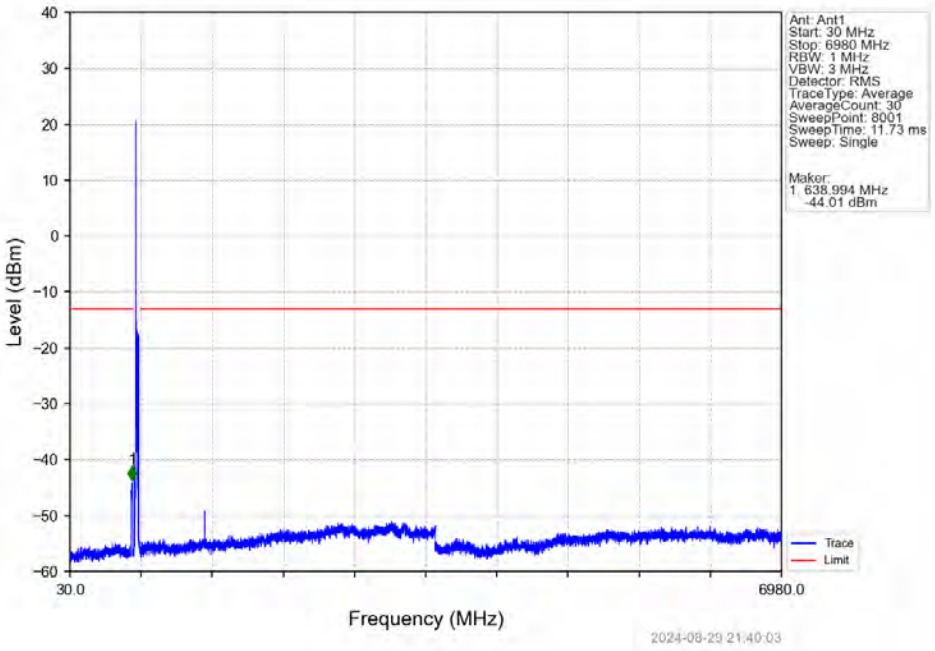


Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV

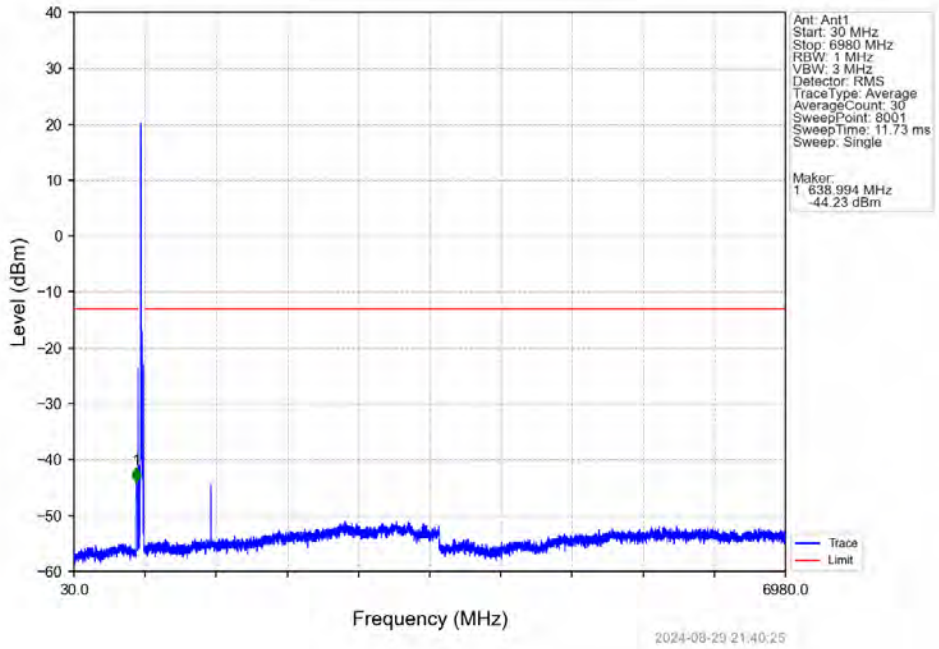


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	/	1	661.890	-35.72	-13	Pass
662	663	0.152	CHP	2	662.970	-31.30	-13	Pass
663	678	0.152	CHP	/	/	/	/	/

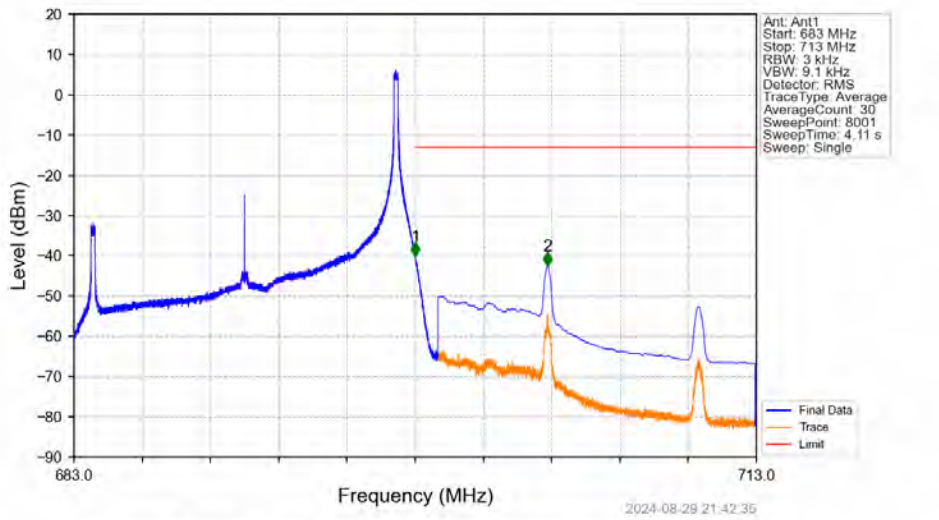
Band71_15MHz_QPSK_MCH_680.5MHz_RB_1_0_NTNV



Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_0_NTNV

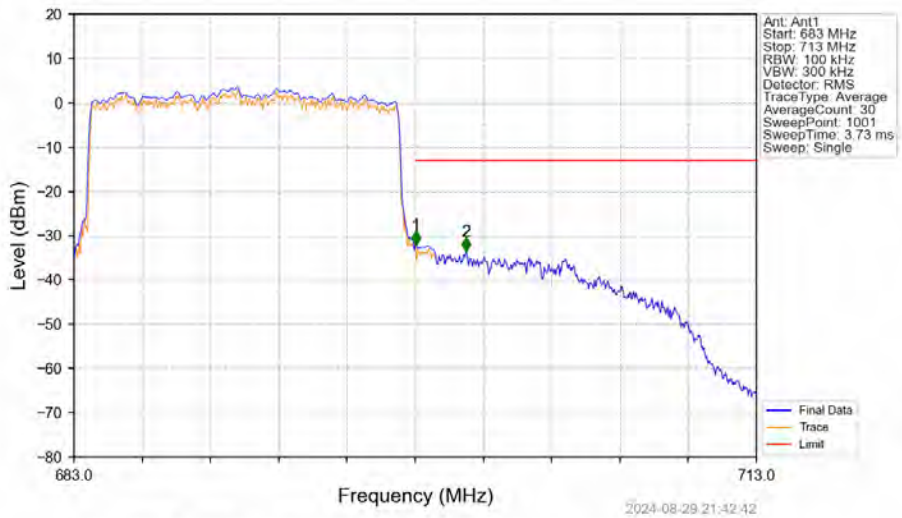


Band71_15MHz_QPSK_HCH_690.5MHz_RB_1_74_NTNV



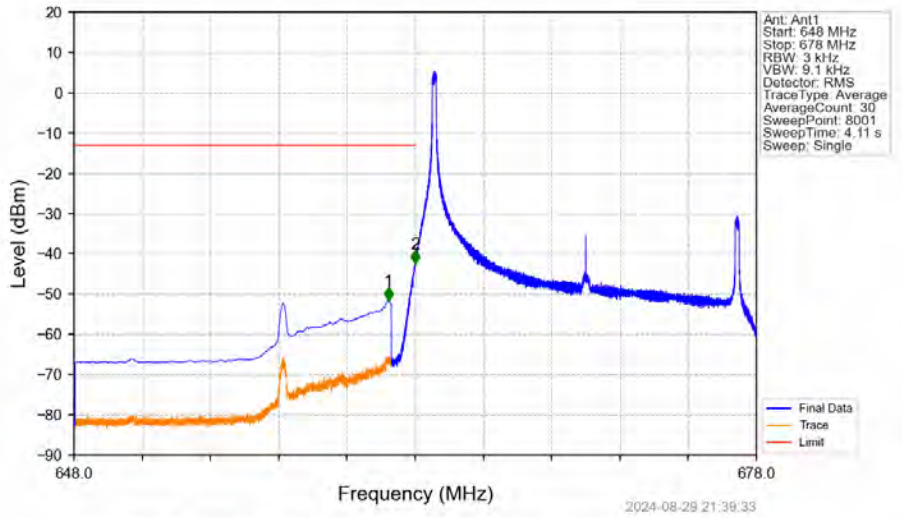
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.004	-39.99	-13	Pass
699	713	0.1	CHP	2	703.805	-42.52	-13	Pass

Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV



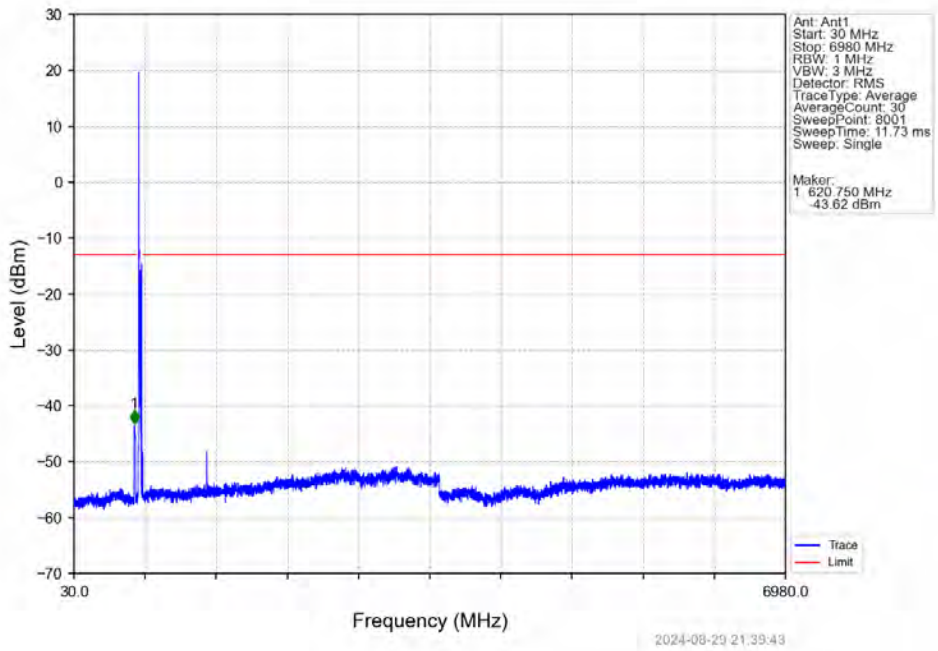
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.152	CHP	/	/	/	/	/
698	699	0.152	CHP	1	698.030	-31.96	-13	Pass
699	713	0.1	/	2	700.250	-33.49	-13	Pass

Band71_15MHz_16QAM_LCH_670.5MHz_RB_1_0_NTNV

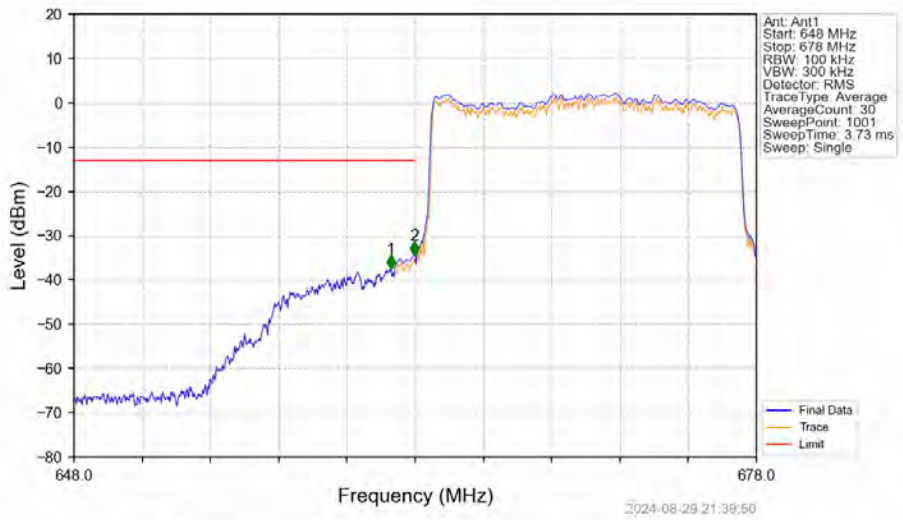


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	CHP	1	661.822	-51.70	-13	Pass
662	663	0.003	/	2	662.992	-42.46	-13	Pass
663	678	0.003	/	/	/	/	/	/

Band71_15MHz_16QAM_LCH_670.5MHz_RB_1_0_NTNV



Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	/	1	661.920	-37.42	-13	Pass
662	663	0.153	CHP	2	662.970	-34.47	-13	Pass
663	678	0.153	CHP	/	/	/	/	/

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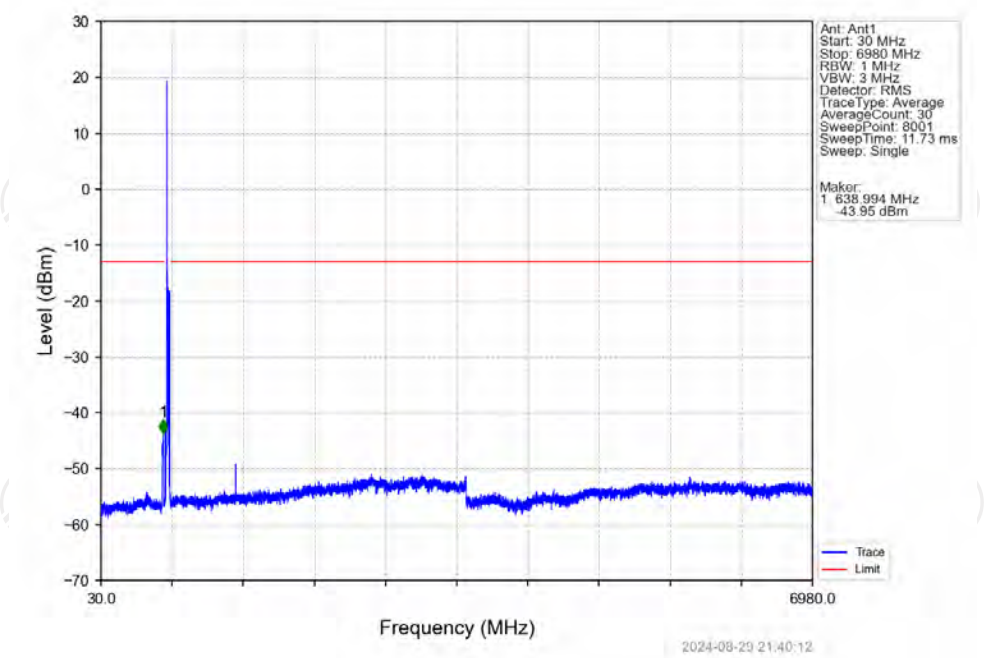
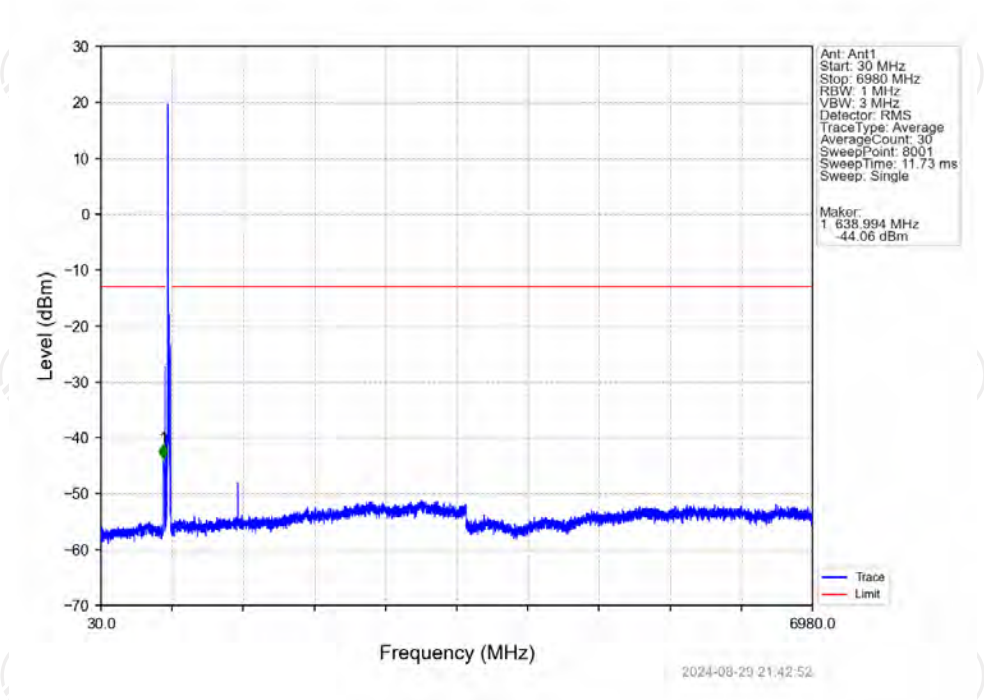
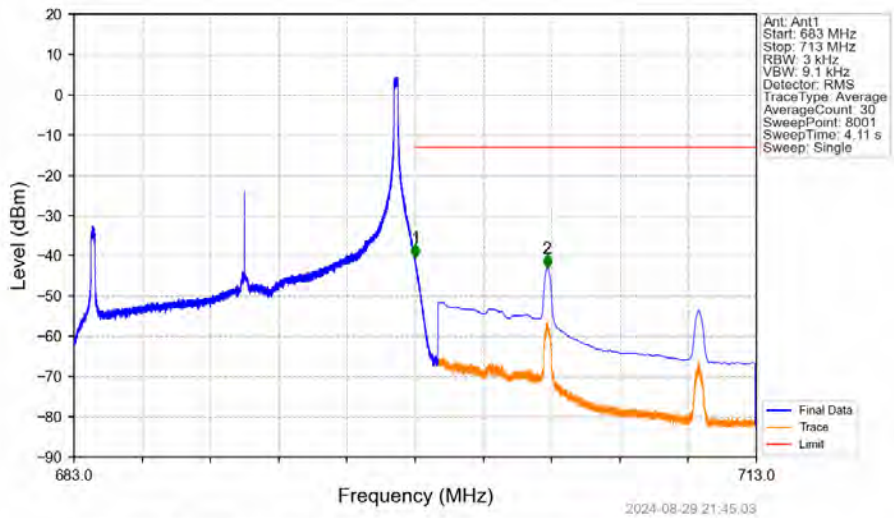
Band71_15MHz_16QAM_MCH_680.5MHz_RB_1_0_NTNV



Band71_15MHz_16QAM_HCH_690.5MHz_RB_1_0_NTNV

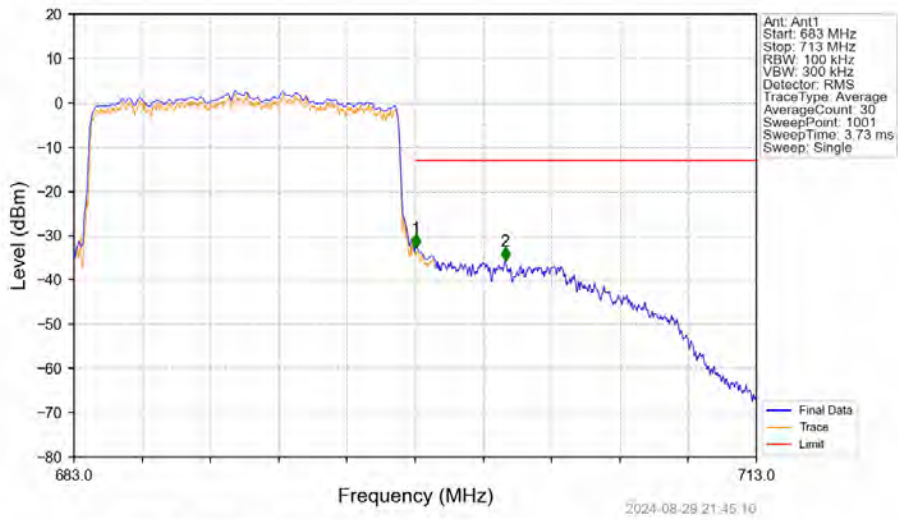


Band71_15MHz_16QAM_HCH_690.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.004	-40.43	-13	Pass
699	713	0.1	CHP	2	703.801	-43.00	-13	Pass

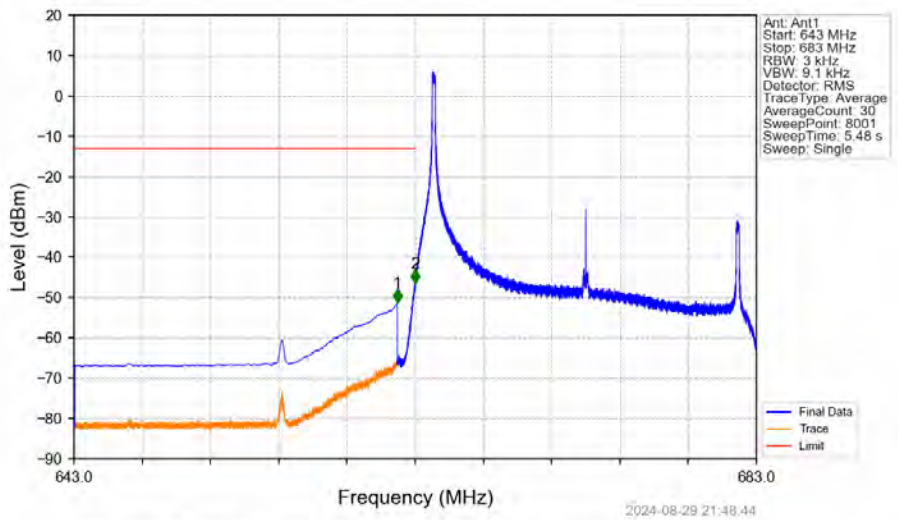
Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.151	CHP	/	/	/	/	/
698	699	0.151	CHP	1	698.030	-32.73	-13	Pass
699	713	0.1	/	2	701.960	-35.75	-13	Pass

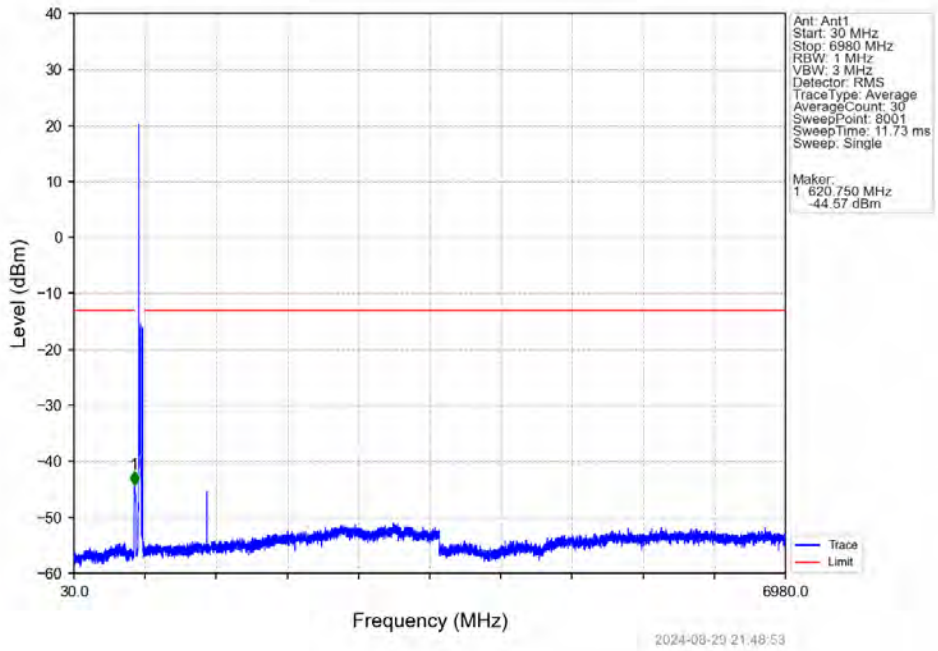
6.2.4 B71_20MHz

Band71_20MHz_QPSK_LCH_673MHz_RB_1_0_NTNV

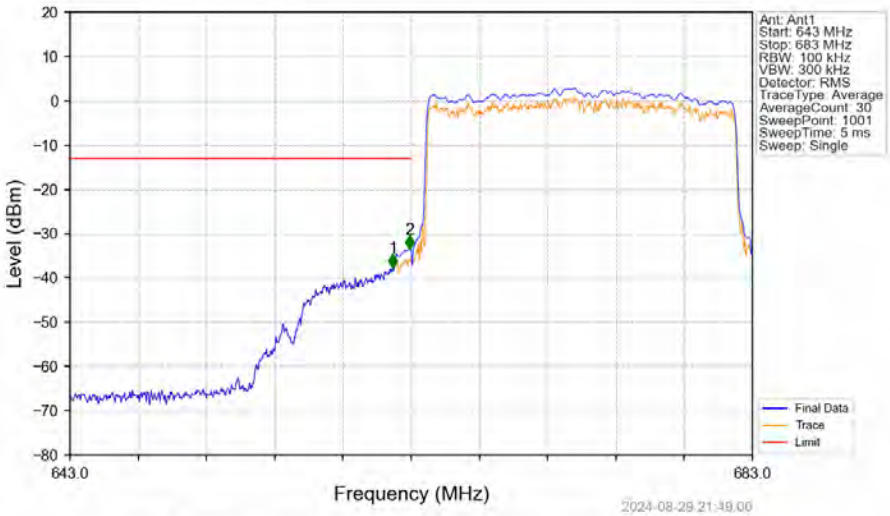


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	CHP	1	661.945	-51.31	-13	Pass
662	663	0.003	/	2	662.995	-46.38	-13	Pass
663	683	0.003	/	/	/	/	/	/

Band71_20MHz_QPSK_LCH_673MHz_RB_1_0_NTNV

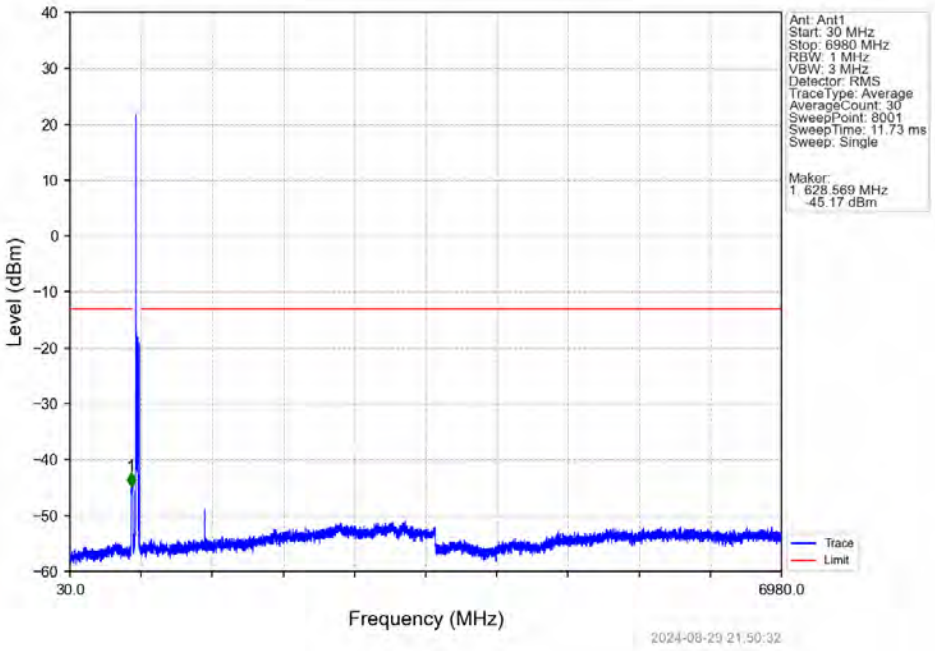


Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV

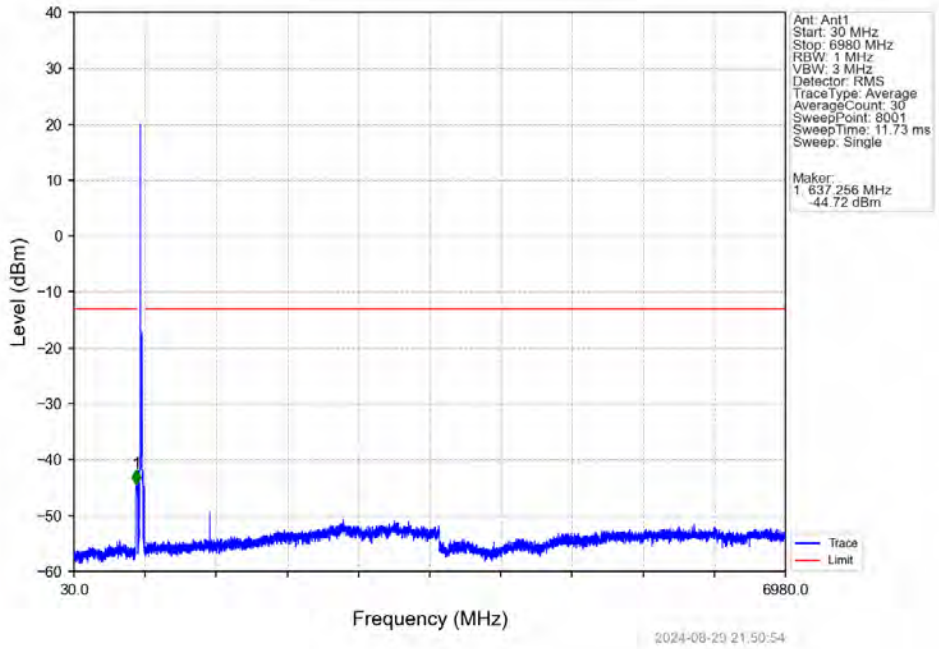


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	/	1	661.920	-37.65	-13	Pass
662	663	0.201	CHP	2	662.920	-33.49	-13	Pass
663	683	0.201	CHP	/	/	/	/	/

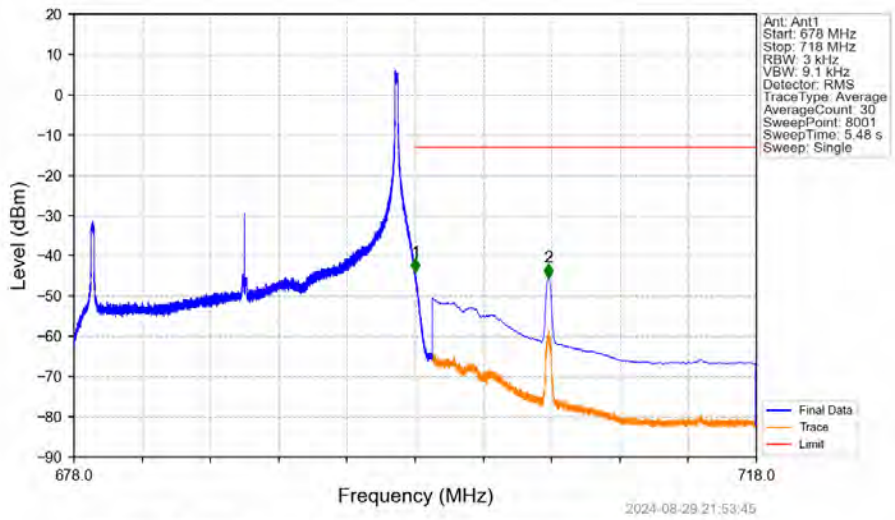
Band71_20MHz_QPSK_MCH_683MHz_RB_1_0_NTNV



Band71_20MHz_QPSK_HCH_688MHz_RB_1_0_NTNV



Band71_20MHz_QPSK_HCH_688MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.015	-44.13	-13	Pass
699	718	0.1	CHP	2	705.805	-45.36	-13	Pass

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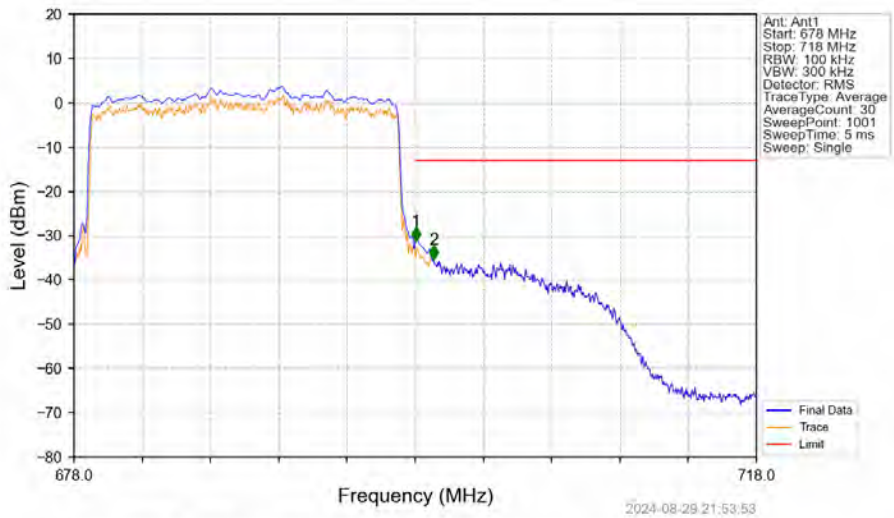
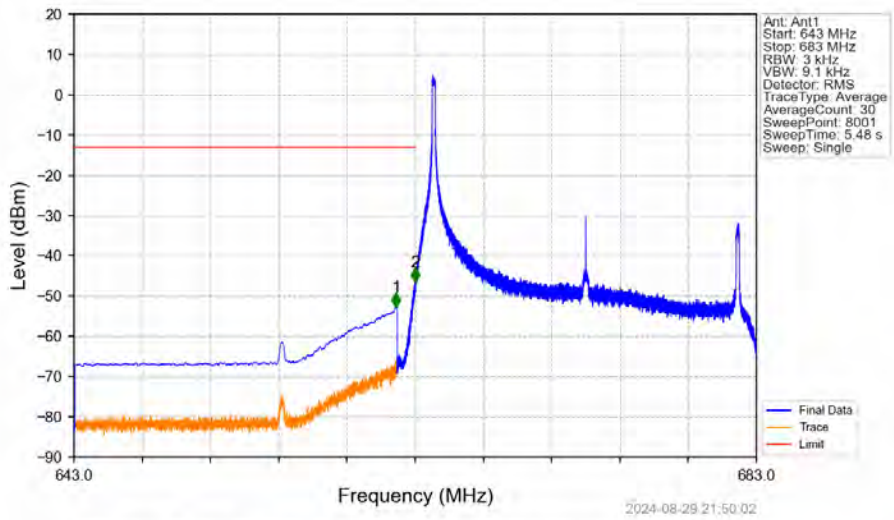
Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



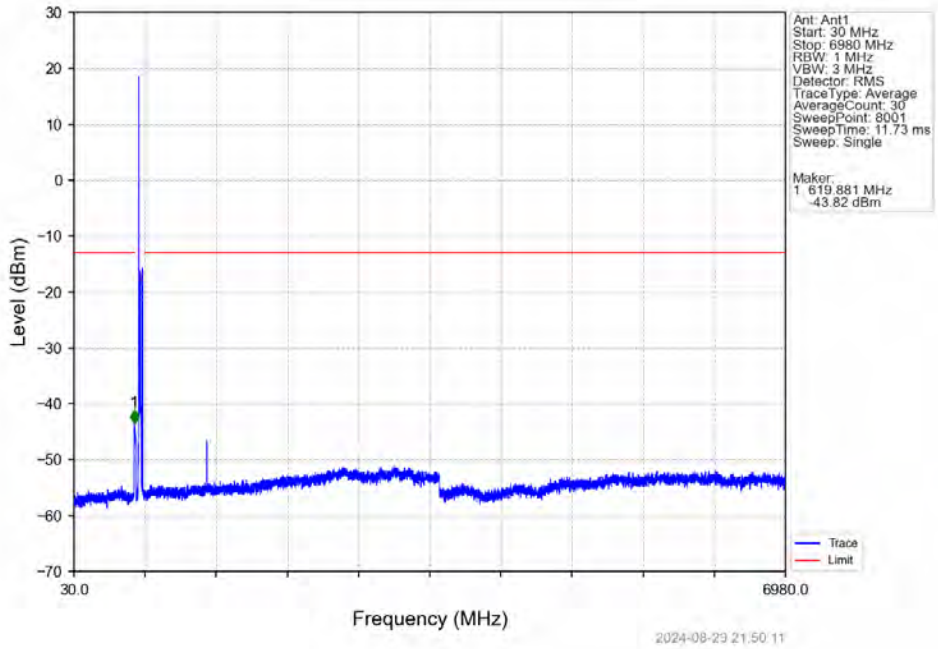
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.2	CHP	/	/	/	/	/
698	699	0.2	CHP	1	698.040	-31.07	-13	Pass
699	718	0.1	/	2	699.080	-35.39	-13	Pass

Band71_20MHz_16QAM_LCH_673MHz_RB_1_0_NTNV

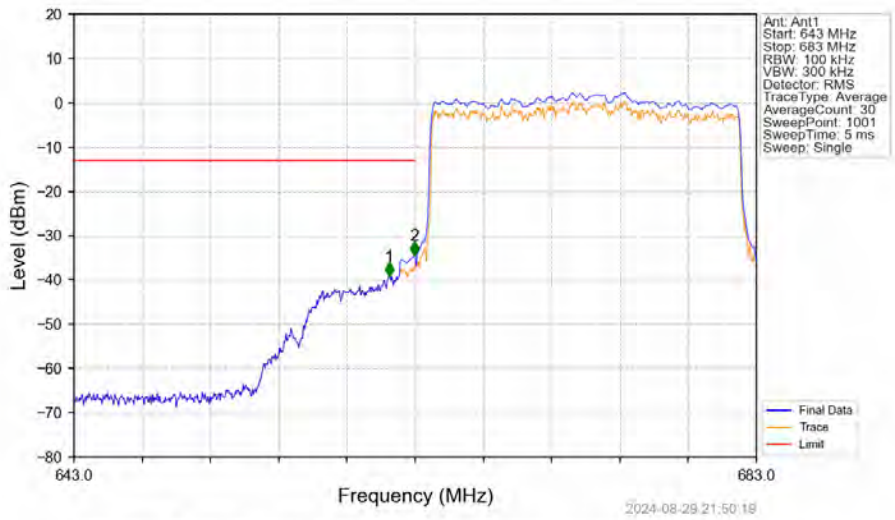


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	CHP	1	661.870	-52.75	-13	Pass
662	663	0.003	/	2	662.995	-46.46	-13	Pass
663	683	0.003	/	/	/	/	/	/

Band71_20MHz_16QAM_LCH_673MHz_RB_1_0_NTNV



Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	/	1	661.480	-39.18	-13	Pass
662	663	0.198	CHP	2	662.960	-34.44	-13	Pass
663	683	0.198	CHP	/	/	/	/	/

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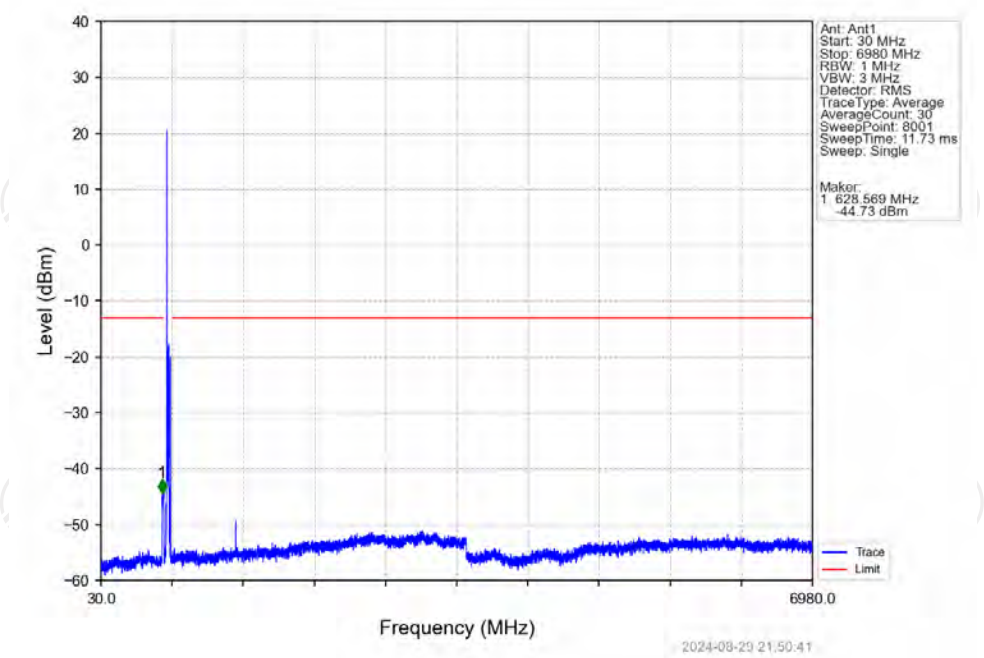
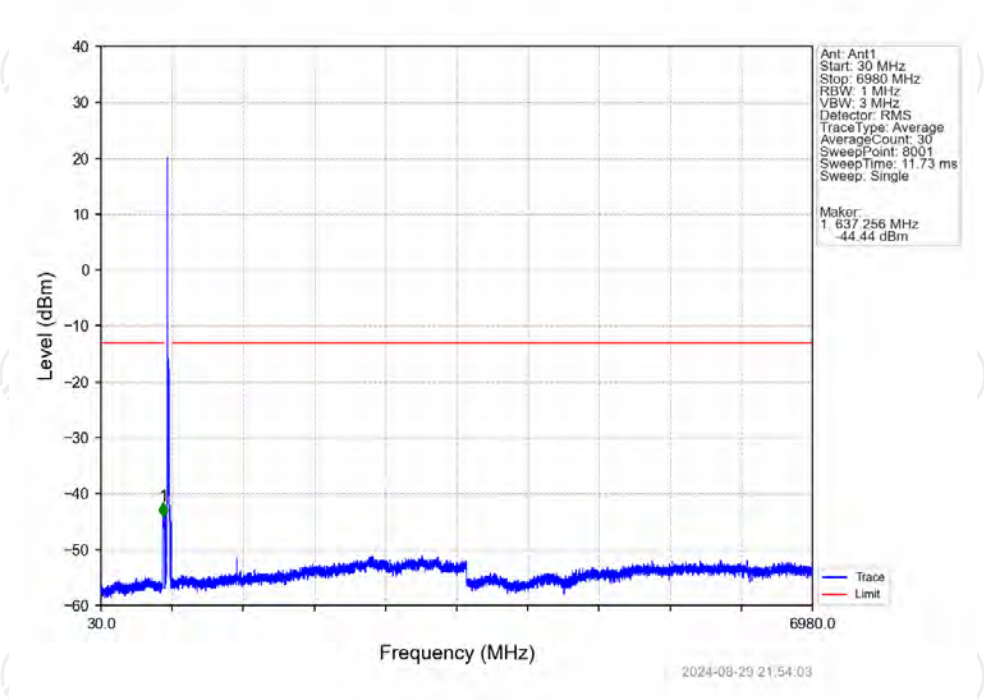
Band71_20MHz_16QAM_MCH_683MHz_RB_1_0_NTNV

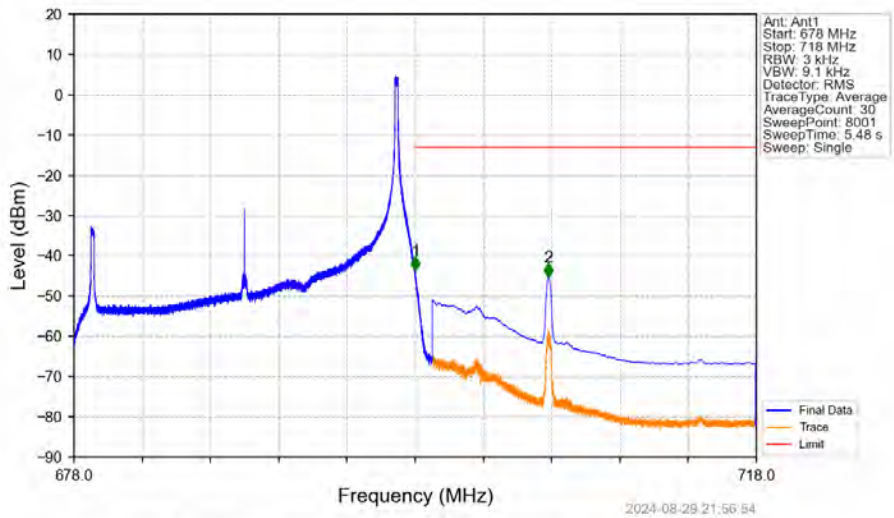


Band71_20MHz_16QAM_HCH_688MHz_RB_1_0_NTNV



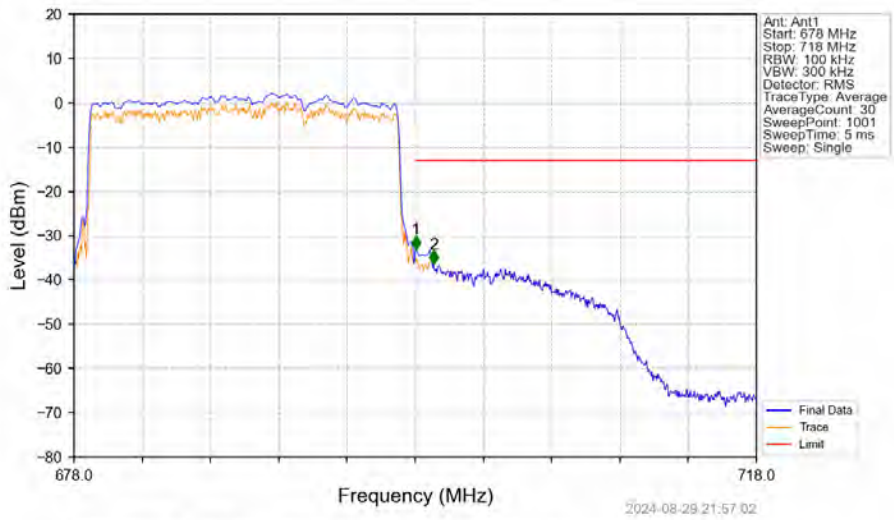
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Band71_20MHz_16QAM_HCH_688MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.003	/	/	/	/	/	/
698	699	0.003	/	1	698.005	-43.69	-13	Pass
699	718	0.1	CHP	2	705.805	-45.19	-13	Pass

Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.202	CHP	/	/	/	/	/
698	699	0.202	CHP	1	698.040	-33.04	-13	Pass
699	718	0.1	/	2	699.080	-36.46	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
71	5	665.5	695.5	0.1585	0.0025	ppm	4M56G7D	27N	22.00
71	5	665.5	695.5	0.1213	0.0021	ppm	4M56W7D	27N	20.84
71	10	668	693	0.1603	0.0035	ppm	9M09G7D	27N	22.05
71	10	668	693	0.1581	0.0021	ppm	9M09W7D	27N	21.99
71	15	670.5	690.5	0.1679	0.0026	ppm	13M5G7D	27N	22.25
71	15	670.5	690.5	0.1462	0.0022	ppm	13M6W7D	27N	21.65
71	20	673	688	0.1683	0.0014	ppm	18M1G7D	27N	22.26
71	20	673	688	0.1563	0.0017	ppm	18M1W7D	27N	21.94

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
71	5	665.5	695.5	0.0592	0.0025	ppm	4M56G7D	27N	17.72
71	5	665.5	695.5	0.0453	0.0021	ppm	4M56W7D	27N	16.56
71	10	668	693	0.0598	0.0035	ppm	9M09G7D	27N	17.77
71	10	668	693	0.0590	0.0021	ppm	9M09W7D	27N	17.71
71	15	670.5	690.5	0.0627	0.0026	ppm	13M5G7D	27N	17.97
71	15	670.5	690.5	0.0546	0.0022	ppm	13M6W7D	27N	17.37
71	20	673	688	0.0628	0.0014	ppm	18M1G7D	27N	17.98
71	20	673	688	0.0583	0.0017	ppm	18M1W7D	27N	17.66