1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	21.72	-1.85	17.72	<=34.77	Pass
			2	21.88	-1.85	17.88	<=34.77	Pass
			5	21.80	-1.85	17.80	<=34.77	Pass
		3	0	21.80	-1.85	17.80	<=34.77	Pass
			2	21.75	-1.85	17.75	<=34.77	Pass
			3	21.67	-1.85	17.67	<=34.77	Pass
		6	0	20.71	-1.85	16.71	<=34.77	Pass
	707.5	1	0	21.64	-1.85	17.64	<=34.77	Pass
			2	21.71	-1.85	17.71	<=34.77	Pass
			5	21.65	-1.85	17.65	<=34.77	Pass
		3	0	21.72	-1.85	17.72	<=34.77	Pass
			2	21.80	-1.85	17.80	<=34.77	Pass
			3	21.73	-1.85	17.73	<=34.77	Pass
		6	0	20.78	-1.85	16.78	<=34.77	Pass
	715.3	1	0	21.78	-1.85	17.78	<=34.77	Pass
			2	21.72	-1.85	17.72	<=34.77	Pass
			5	21.69	-1.85	17.69	<=34.77	Pass
		3	0	21.66	-1.85	17.66	<=34.77	Pass
			2	21.64	-1.85	17.64	<=34.77	Pass
			3	21.54	-1.85	17.54	<=34.77	Pass
		6	0	20.57	-1.85	16.57	<=34.77	Pass
16QAM	699.7	1	0	20.36	-1.85	16.36	<=34.77	Pass
			2	20.36	-1.85	16.36	<=34.77	Pass
			5	20.39	-1.85	16.39	<=34.77	Pass
		3	0	20.53	-1.85	16.53	<=34.77	Pass
			2	20.50	-1.85	16.50	<=34.77	Pass
			3	20.50	-1.85	16.50	<=34.77	Pass
		6	0	19.72	-1.85	15.72	<=34.77	Pass
	707.5	1	0	21.58	-1.85	17.58	<=34.77	Pass
			2	21.49	-1.85	17.49	<=34.77	Pass
			5	21.44	-1.85	17.44	<=34.77	Pass
		3	0	20.67	-1.85	16.67	<=34.77	Pass
			2	20.67	-1.85	16.67	<=34.77	Pass
			3	20.58	-1.85	16.58	<=34.77	Pass
		6	0	19.74	-1.85	15.74	<=34.77	Pass
	715.3	1	0	20.24	-1.85	16.24	<=34.77	Pass
			2	20.26	-1.85	16.26	<=34.77	Pass
			5	20.19	-1.85	16.19	<=34.77	Pass
		3	0	20.33	-1.85	16.33	<=34.77	Pass
			2	20.38	-1.85	16.38	<=34.77	Pass
			3	20.19	-1.85	16.19	<=34.77	Pass
		6	0	19.46	-1.85	15.46	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.74	-1.85	17.74	<=34.77	Pass
			7	21.76	-1.85	17.76	<=34.77	Pass
			14	21.68	-1.85	17.68	<=34.77	Pass
		8	0	20.66	-1.85	16.66	<=34.77	Pass
			4	20.67	-1.85	16.67	<=34.77	Pass
			7	20.70	-1.85	16.70	<=34.77	Pass
		15	0	20.59	-1.85	16.59	<=34.77	Pass
	707.5	1	0	21.52	-1.85	17.52	<=34.77	Pass
			7	21.72	-1.85	17.72	<=34.77	Pass
			14	21.42	-1.85	17.42	<=34.77	Pass
		8	0	20.49	-1.85	16.49	<=34.77	Pass
			4	20.49	-1.85	16.49	<=34.77	Pass
			7	20.49	-1.85	16.49	<=34.77	Pass
		15	0	20.40	-1.85	16.40	<=34.77	Pass
	714.5	1	0	21.42	-1.85	17.42	<=34.77	Pass
			7	21.35	-1.85	17.35	<=34.77	Pass
			14	21.33	-1.85	17.33	<=34.77	Pass
		8	0	20.42	-1.85	16.42	<=34.77	Pass
			4	20.45	-1.85	16.45	<=34.77	Pass
			7	20.45	-1.85	16.45	<=34.77	Pass
		15	0	20.39	-1.85	16.39	<=34.77	Pass
16QAM	700.5	1	0	20.50	-1.85	16.50	<=34.77	Pass
			7	20.44	-1.85	16.44	<=34.77	Pass
			14	20.53	-1.85	16.53	<=34.77	Pass
		8	0	19.82	-1.85	15.82	<=34.77	Pass
			4	19.79	-1.85	15.79	<=34.77	Pass
			7	19.75	-1.85	15.75	<=34.77	Pass
		15	0	19.55	-1.85	15.55	<=34.77	Pass
	707.5	1	0	20.93	-1.85	16.93	<=34.77	Pass
			7	20.92	-1.85	16.92	<=34.77	Pass
			14	20.93	-1.85	16.93	<=34.77	Pass
		8	0	19.65	-1.85	15.65	<=34.77	Pass
			4	19.72	-1.85	15.72	<=34.77	Pass
			7	19.67	-1.85	15.67	<=34.77	Pass
		15	0	19.59	-1.85	15.59	<=34.77	Pass
	714.5	1	0	20.89	-1.85	16.89	<=34.77	Pass
			7	20.81	-1.85	16.81	<=34.77	Pass
			14	20.76	-1.85	16.76	<=34.77	Pass
		8	0	19.68	-1.85	15.68	<=34.77	Pass
			4	19.68	-1.85	15.68	<=34.77	Pass
			7	19.72	-1.85	15.72	<=34.77	Pass
		15	0	19.61	-1.85	15.61	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.60	-1.85	17.60	<=34.77	Pass
			13	21.55	-1.85	17.55	<=34.77	Pass
			24	21.56	-1.85	17.56	<=34.77	Pass
		12	0	20.69	-1.85	16.69	<=34.77	Pass
			6	20.65	-1.85	16.65	<=34.77	Pass
			13	20.60	-1.85	16.60	<=34.77	Pass

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		25	0	20.75	-1.85	16.75	<=34.77	Pass
	707.5	1	0	21.57	-1.85	17.57	<=34.77	Pass
			13	21.58	-1.85	17.58	<=34.77	Pass
			24	21.64	-1.85	17.64	<=34.77	Pass
		12	0	20.59	-1.85	16.59	<=34.77	Pass
			6	20.62	-1.85	16.62	<=34.77	Pass
			13	20.58	-1.85	16.58	<=34.77	Pass
		25	0	20.71	-1.85	16.71	<=34.77	Pass
	713.5	1	0	21.49	-1.85	17.49	<=34.77	Pass
			13	21.46	-1.85	17.46	<=34.77	Pass
			24	21.41	-1.85	17.41	<=34.77	Pass
		12	0	20.64	-1.85	16.64	<=34.77	Pass
			6	20.57	-1.85	16.57	<=34.77	Pass
			13	20.56	-1.85	16.56	<=34.77	Pass
		25	0	20.64	-1.85	16.64	<=34.77	Pass
16QAM	701.5	1	0	20.62	-1.85	16.62	<=34.77	Pass
			13	20.57	-1.85	16.57	<=34.77	Pass
			24	20.56	-1.85	16.56	<=34.77	Pass
		12	0	19.82	-1.85	15.82	<=34.77	Pass
			6	19.81	-1.85	15.81	<=34.77	Pass
			13	19.71	-1.85	15.71	<=34.77	Pass
		25	0	19.82	-1.85	15.82	<=34.77	Pass
	707.5	1	0	20.59	-1.85	16.59	<=34.77	Pass
			13	20.60	-1.85	16.60	<=34.77	Pass
			24	20.62	-1.85	16.62	<=34.77	Pass
		12	0	19.78	-1.85	15.78	<=34.77	Pass
			6	19.85	-1.85	15.85	<=34.77	Pass
			13	19.84	-1.85	15.84	<=34.77	Pass
		25	0	19.72	-1.85	15.72	<=34.77	Pass
	713.5	1	0	20.13	-1.85	16.13	<=34.77	Pass
			13	20.00	-1.85	16.00	<=34.77	Pass
			24	20.03	-1.85	16.03	<=34.77	Pass
		12	0	19.77	-1.85	15.77	<=34.77	Pass
			6	19.73	-1.85	15.73	<=34.77	Pass
			13	19.69	-1.85	15.69	<=34.77	Pass
		25	0	19.78	-1.85	15.78	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	21.13	-1.85	17.13	<=34.77	Pass
			25	21.06	-1.85	17.06	<=34.77	Pass
			49	21.12	-1.85	17.12	<=34.77	Pass
		25	0	20.44	-1.85	16.44	<=34.77	Pass
			13	20.43	-1.85	16.43	<=34.77	Pass
			25	20.47	-1.85	16.47	<=34.77	Pass
		50	0	20.65	-1.85	16.65	<=34.77	Pass
	707.5	1	0	21.02	-1.85	17.02	<=34.77	Pass
			25	21.08	-1.85	17.08	<=34.77	Pass
			49	21.10	-1.85	17.10	<=34.77	Pass
		25	0	20.40	-1.85	16.40	<=34.77	Pass
			13	20.42	-1.85	16.42	<=34.77	Pass
			25	20.58	-1.85	16.58	<=34.77	Pass
		50	0	20.66	-1.85	16.66	<=34.77	Pass

	711	1	0	21.18	-1.85	17.18	<=34.77	Pass
			25	21.24	-1.85	17.24	<=34.77	Pass
			49	21.08	-1.85	17.08	<=34.77	Pass
		25	0	20.37	-1.85	16.37	<=34.77	Pass
			13	20.43	-1.85	16.43	<=34.77	Pass
			25	20.40	-1.85	16.40	<=34.77	Pass
		50	0	20.68	-1.85	16.68	<=34.77	Pass
16QAM	704	1	0	20.60	-1.85	16.60	<=34.77	Pass
			25	20.51	-1.85	16.51	<=34.77	Pass
			49	20.58	-1.85	16.58	<=34.77	Pass
		25	0	19.82	-1.85	15.82	<=34.77	Pass
			13	19.84	-1.85	15.84	<=34.77	Pass
			25	19.88	-1.85	15.88	<=34.77	Pass
		50	0	19.76	-1.85	15.76	<=34.77	Pass
	707.5	1	0	21.48	-1.85	17.48	<=34.77	Pass
			25	21.56	-1.85	17.56	<=34.77	Pass
			49	21.54	-1.85	17.54	<=34.77	Pass
		25	0	19.75	-1.85	15.75	<=34.77	Pass
			13	19.77	-1.85	15.77	<=34.77	Pass
			25	19.81	-1.85	15.81	<=34.77	Pass
		50	0	19.74	-1.85	15.74	<=34.77	Pass
	711	1	0	20.88	-1.85	16.88	<=34.77	Pass
			25	20.91	-1.85	16.91	<=34.77	Pass
			49	20.79	-1.85	16.79	<=34.77	Pass
		25	0	19.70	-1.85	15.70	<=34.77	Pass
			13	19.71	-1.85	15.71	<=34.77	Pass
			25	19.60	-1.85	15.60	<=34.77	Pass
		50	0	19.69	-1.85	15.69	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	1.116	0.0016	-2.5 to 2.5	Pass
					3.85	2.203	0.0031	-2.5 to 2.5	Pass
					4.43	1.931	0.0028	-2.5 to 2.5	Pass
				-30	3.85	2.046	0.0029	-2.5 to 2.5	Pass
				-20	3.85	1.245	0.0018	-2.5 to 2.5	Pass
				-10	3.85	1.273	0.0018	-2.5 to 2.5	Pass
				0	3.85	1.845	0.0026	-2.5 to 2.5	Pass
				10	3.85	2.003	0.0029	-2.5 to 2.5	Pass
				30	3.85	0.744	0.0011	-2.5 to 2.5	Pass
				40	3.85	1.202	0.0017	-2.5 to 2.5	Pass
				50	3.85	0.744	0.0011	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	0.386	0.0005	-2.5 to 2.5	Pass
					3.85	0.558	0.0008	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.515	0.0007	-2.5 to 2.5	Pass
				-20	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.358	0.0005	-2.5 to 2.5	Pass

				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	1.445	0.0020	-2.5 to 2.5	Pass
					3.85	1.087	0.0015	-2.5 to 2.5	Pass
					4.43	0.472	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.787	0.0011	-2.5 to 2.5	Pass
				-20	3.85	0.944	0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.830	0.0012	-2.5 to 2.5	Pass
				0	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				30	3.85	0.501	0.0007	-2.5 to 2.5	Pass
				40	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				50	3.85	0.358	0.0005	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	1.345	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	0.458	0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.001	0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.330	0.0019	-2.5 to 2.5	Pass
				0	3.85	1.087	0.0016	-2.5 to 2.5	Pass
				10	3.85	1.903	0.0027	-2.5 to 2.5	Pass
				30	3.85	1.588	0.0023	-2.5 to 2.5	Pass
				40	3.85	1.531	0.0022	-2.5 to 2.5	Pass
				50	3.85	1.502	0.0021	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	0.715	0.0010	-2.5 to 2.5	Pass
					3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.744	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-1.316	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	0.830	0.0012	-2.5 to 2.5	Pass
					3.85	1.330	0.0019	-2.5 to 2.5	Pass
					4.43	0.730	0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.901	0.0013	-2.5 to 2.5	Pass
				-20	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass

2.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-0.429	-0.0006	-2.5 to 2.5	Pass
					3.85	-0.515	-0.0007	-2.5 to 2.5	Pass

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					4.43	-0.958	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				30	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.029	0.0000	-2.5 to 2.5	Pass
					3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
					4.43	-1.073	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.086	-0.0001	-2.5 to 2.5	Pass
					3.85	0.114	0.0002	-2.5 to 2.5	Pass
					4.43	0.629	0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.730	0.0010	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				10	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				50	3.85	0.615	0.0009	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	0.000	0.0000	-2.5 to 2.5	Pass
					3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.372	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				30	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.286	0.0004	-2.5 to 2.5	Pass
					3.85	1.216	0.0017	-2.5 to 2.5	Pass
					4.43	1.030	0.0015	-2.5 to 2.5	Pass
				-30	3.85	0.744	0.0011	-2.5 to 2.5	Pass
				-20	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				30	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				40	3.85	0.873	0.0012	-2.5 to 2.5	Pass
				50	3.85	0.415	0.0006	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.544	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
					4.43	-0.329	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass

				0	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	0.601	0.0009	-2.5 to 2.5	Pass
					3.85	0.601	0.0009	-2.5 to 2.5	Pass
					4.43	0.286	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				0	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				10	3.85	0.701	0.0010	-2.5 to 2.5	Pass
				30	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				40	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				50	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.973	-0.0014	-2.5 to 2.5	Pass
					3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
					4.43	-0.572	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-1.159	-0.0016	-2.5 to 2.5	Pass
					3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
					4.43	-1.030	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-0.057	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.229	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.386	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.072	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.529	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.873	-0.0012	-2.5 to 2.5	Pass

					4.43	-0.944	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-1.717	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.486	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.216	-0.0017	-2.5 to 2.5	Pass
					4.43	-0.858	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				0	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				50	3.85	-0.873	-0.0012	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	-0.672	-0.0010	-2.5 to 2.5	Pass
					3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.644	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-0.529	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
					4.43	-1.173	-0.0017	-2.5 to 2.5	Pass
				-30	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				10	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				40	3.85	0.529	0.0007	-2.5 to 2.5	Pass
				50	3.85	0.329	0.0005	-2.5 to 2.5	Pass
	711	50	0	20	3.27	0.286	0.0004	-2.5 to 2.5	Pass
					3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
					4.43	0.043	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.887	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass

				40	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				50	3.85	0.329	0.0005	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	0.200	0.0003	-2.5 to 2.5	Pass
					3.85	0.401	0.0006	-2.5 to 2.5	Pass
					4.43	-0.172	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-0.873	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.715	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-1.159	-0.0016	-2.5 to 2.5	Pass
				50	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.386	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.572	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

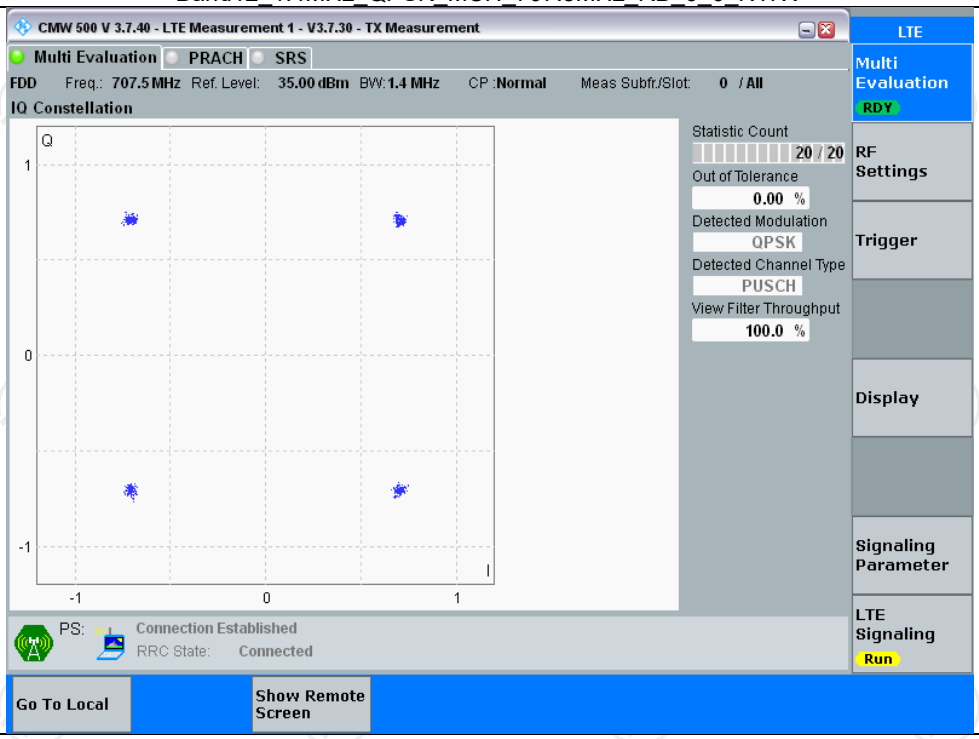
3.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

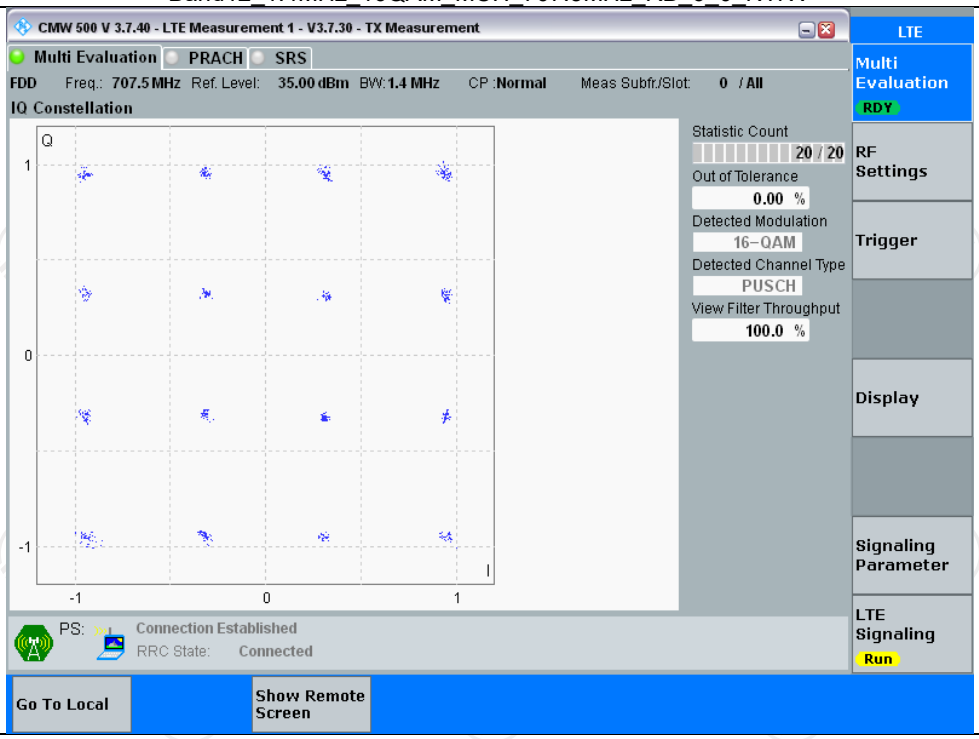
3.2 Test Graph

3.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

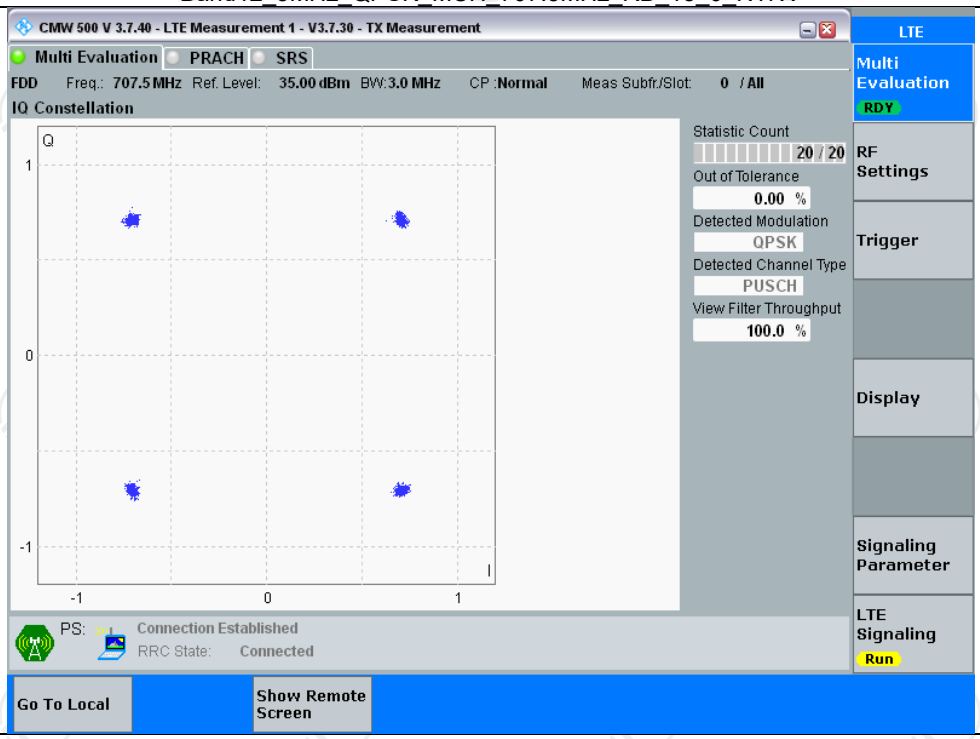


Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV

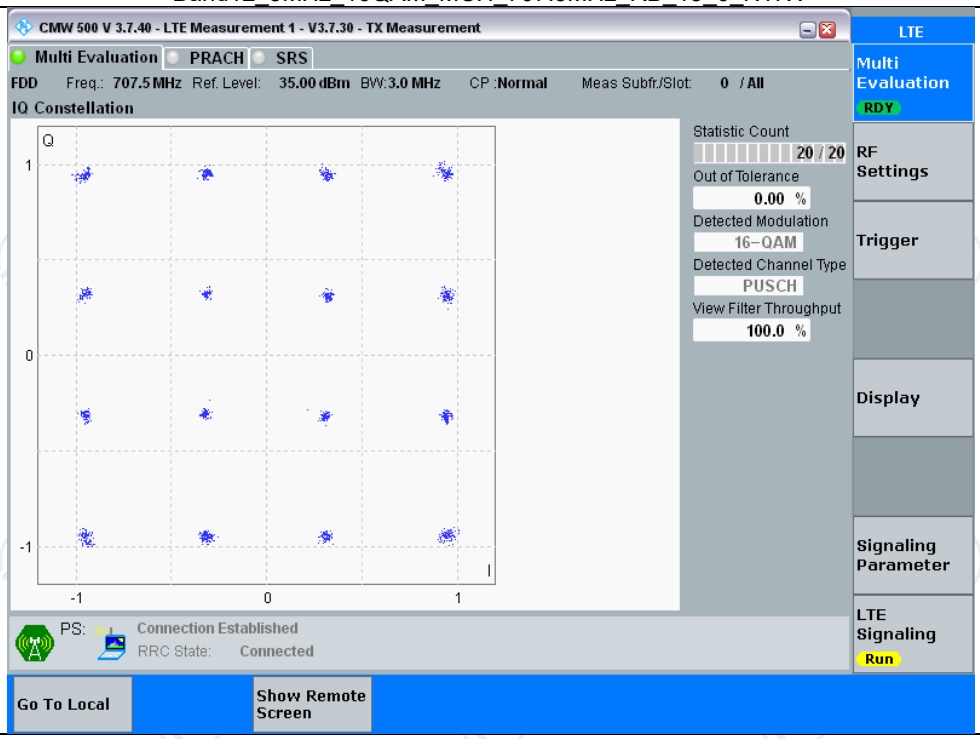


3.2.2 B12_3MHz

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

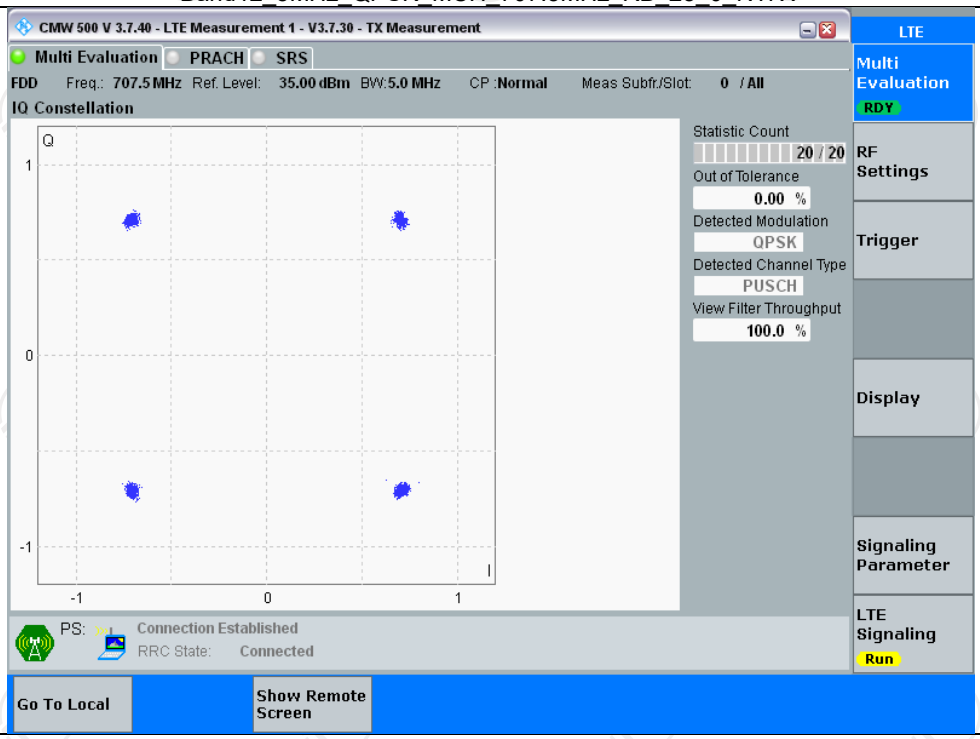


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

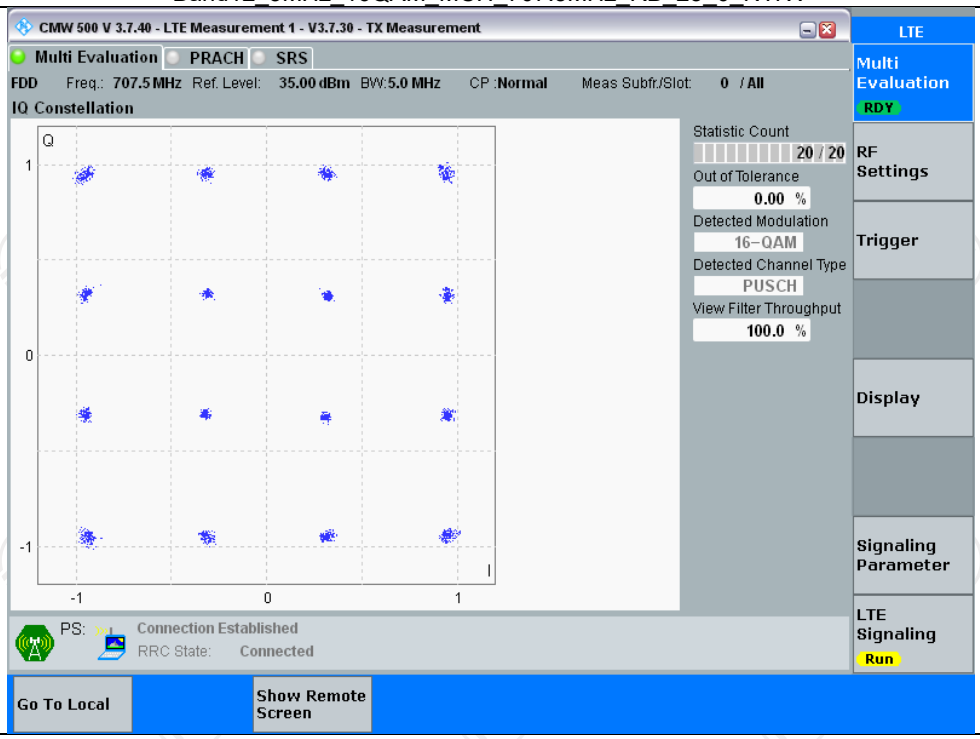


3.2.3 B12_5MHz

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

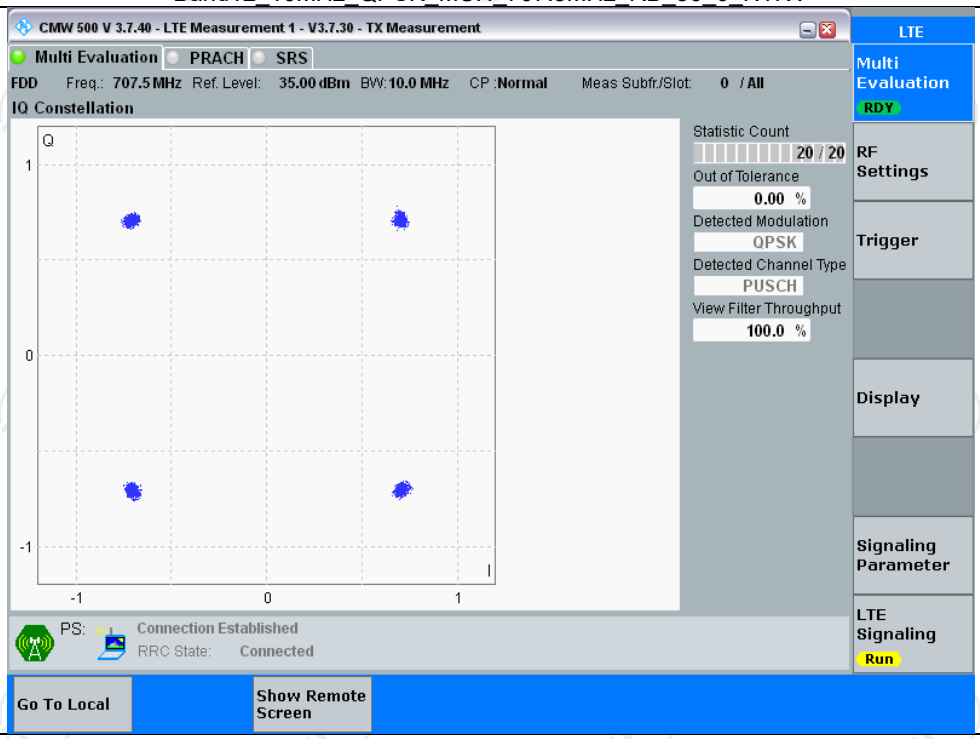


Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

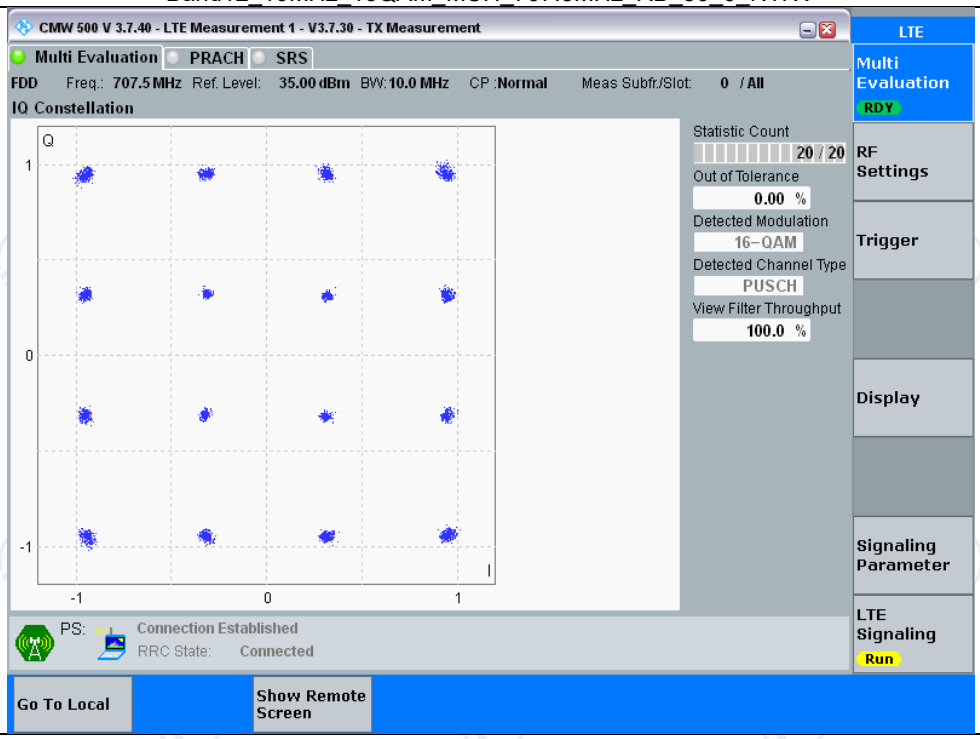


3.2.4 B12_10MHz

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.110	/	Pass
		707.5	6	0	1.096	/	Pass
		715.3	6	0	1.102	/	Pass
	16QAM	699.7	6	0	1.100	/	Pass
		707.5	6	0	1.103	/	Pass
		715.3	6	0	1.110	/	Pass
3	QPSK	700.5	15	0	2.714	/	Pass
		707.5	15	0	2.719	/	Pass
		714.5	15	0	2.722	/	Pass
	16QAM	700.5	15	0	2.708	/	Pass
		707.5	15	0	2.714	/	Pass
		714.5	15	0	2.712	/	Pass
5	QPSK	701.5	25	0	4.554	/	Pass
		707.5	25	0	4.558	/	Pass
		713.5	25	0	4.573	/	Pass
	16QAM	701.5	25	0	4.587	/	Pass
		707.5	25	0	4.562	/	Pass
		713.5	25	0	4.571	/	Pass
10	QPSK	704	50	0	9.097	/	Pass
		707.5	50	0	9.038	/	Pass
		711	50	0	9.049	/	Pass
	16QAM	704	50	0	9.083	/	Pass
		707.5	50	0	9.066	/	Pass
		711	50	0	9.045	/	Pass

4.1.2 Band12_XDB

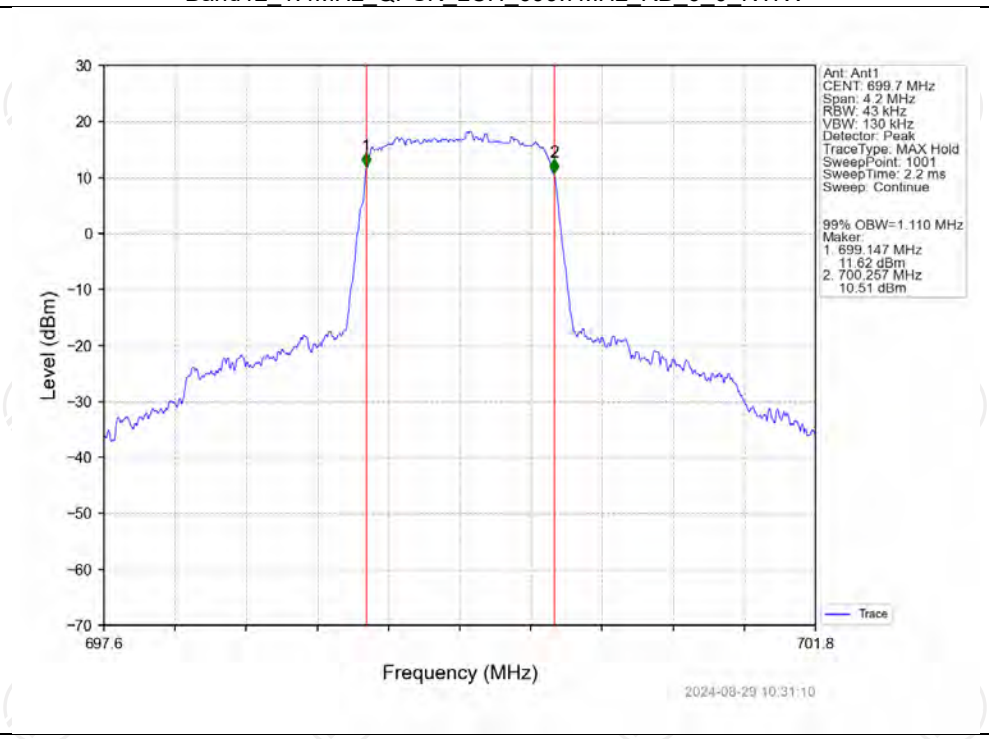
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.260	/	Pass
		707.5	6	0	1.263	/	Pass
		715.3	6	0	1.270	/	Pass
	16QAM	699.7	6	0	1.254	/	Pass
		707.5	6	0	1.261	/	Pass
		715.3	6	0	1.260	/	Pass
3	QPSK	700.5	15	0	2.956	/	Pass
		707.5	15	0	2.973	/	Pass
		714.5	15	0	2.980	/	Pass
	16QAM	700.5	15	0	2.975	/	Pass
		707.5	15	0	2.964	/	Pass
		714.5	15	0	2.986	/	Pass
5	QPSK	701.5	25	0	5.038	/	Pass
		707.5	25	0	5.062	/	Pass
		713.5	25	0	5.073	/	Pass

	16QAM	701.5	25	0	5.071	/	Pass
		707.5	25	0	5.070	/	Pass
		713.5	25	0	5.062	/	Pass
10	QPSK	704	50	0	10.089	/	Pass
		707.5	50	0	10.086	/	Pass
		711	50	0	10.077	/	Pass
	16QAM	704	50	0	10.110	/	Pass
		707.5	50	0	10.085	/	Pass
		711	50	0	10.109	/	Pass

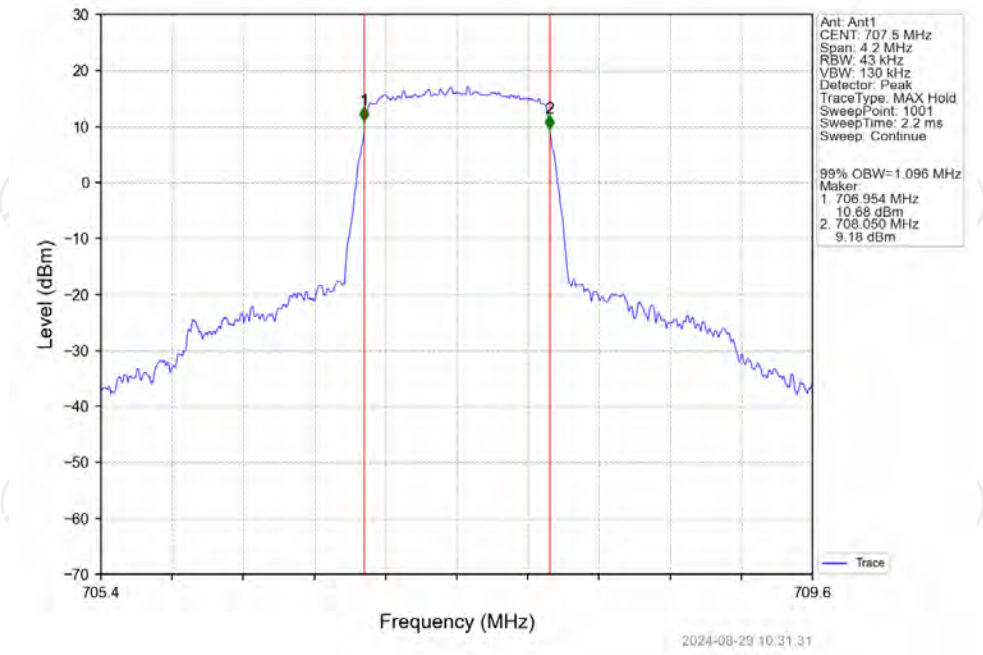
4.2 Test Graph

4.2.1 Band12_OBW

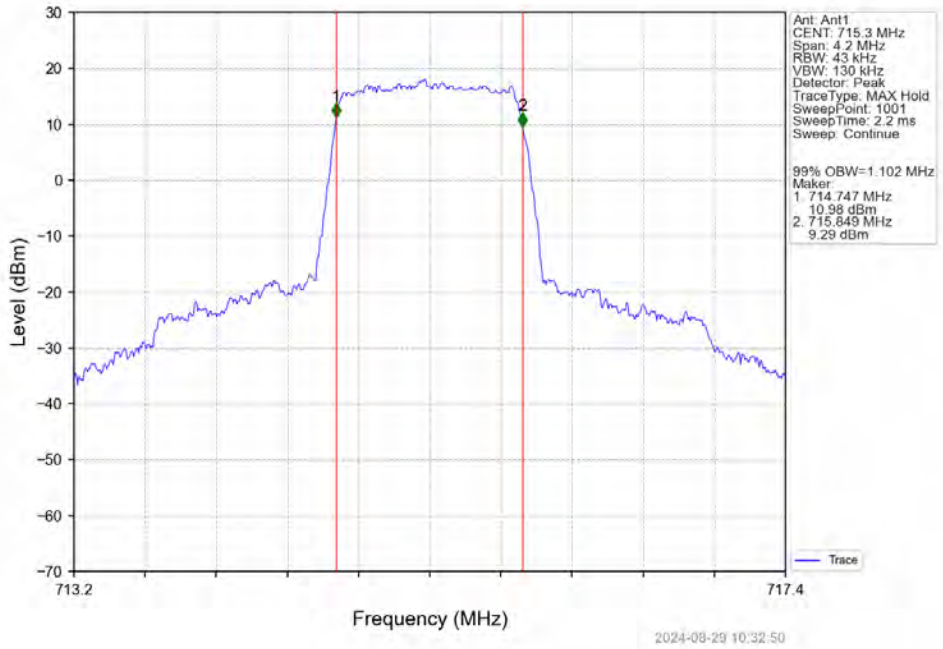
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



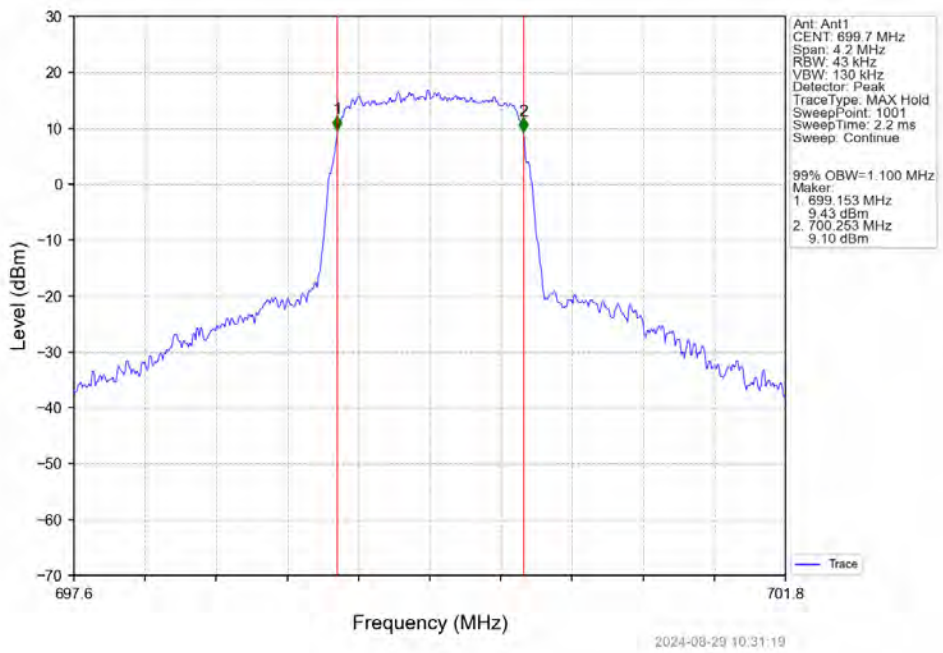
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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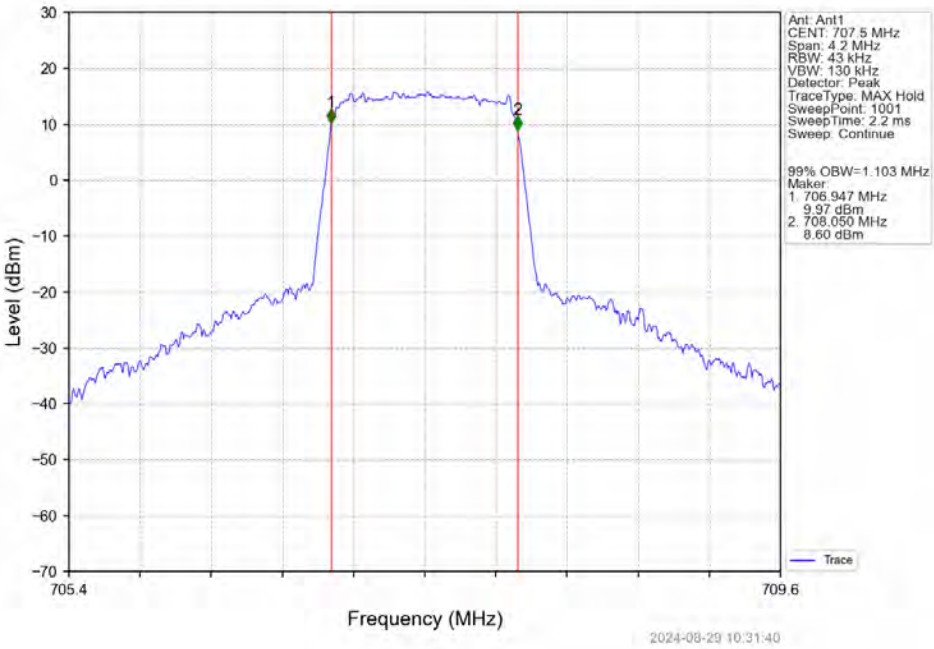
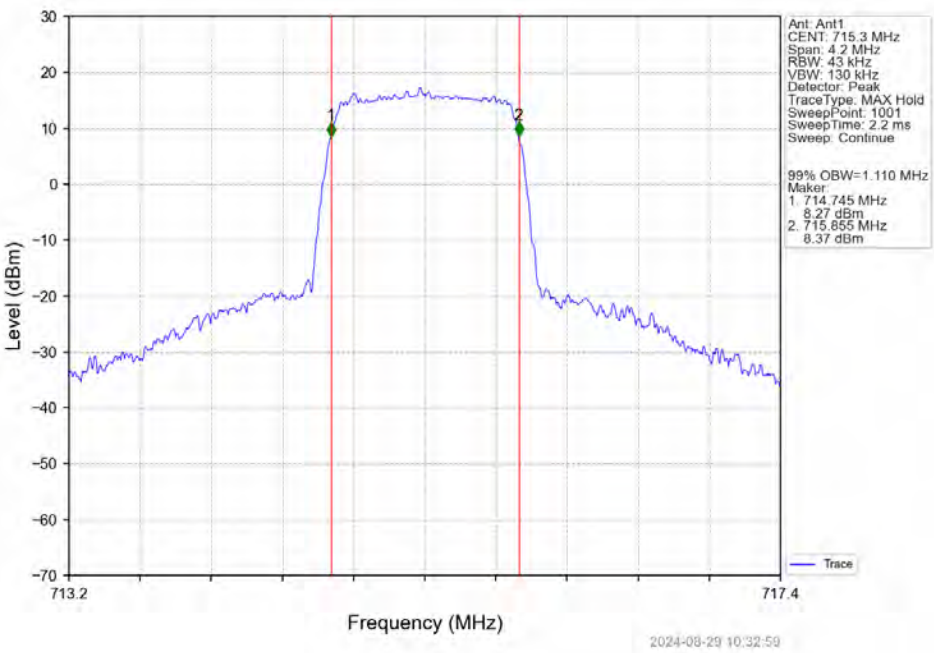
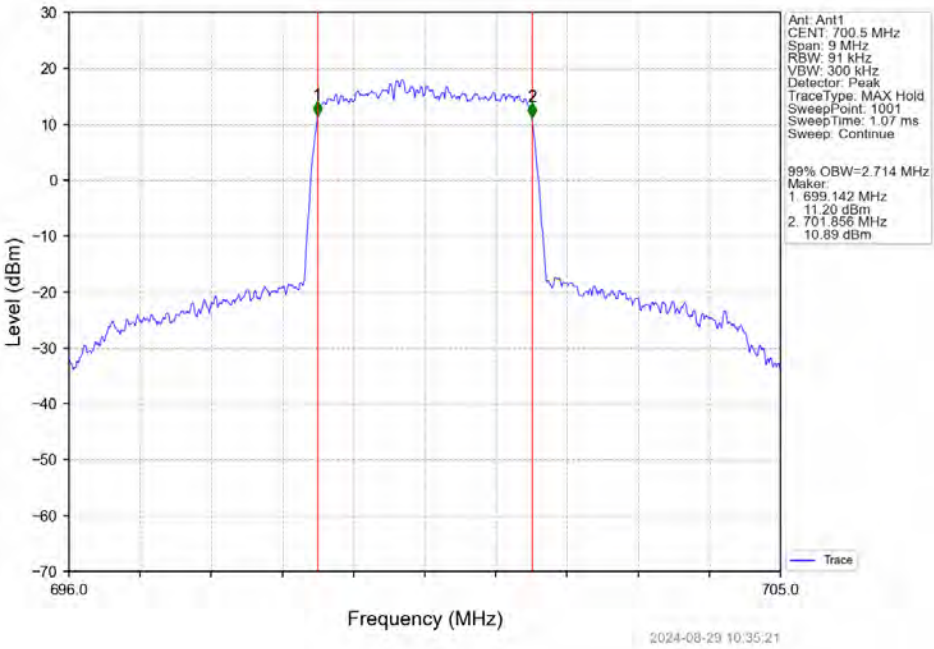
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



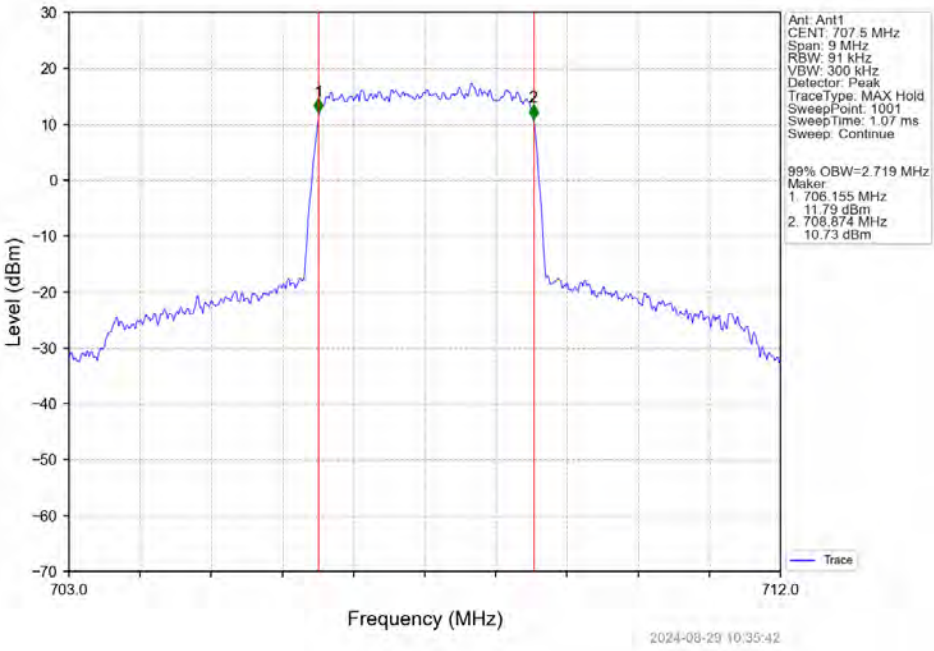
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



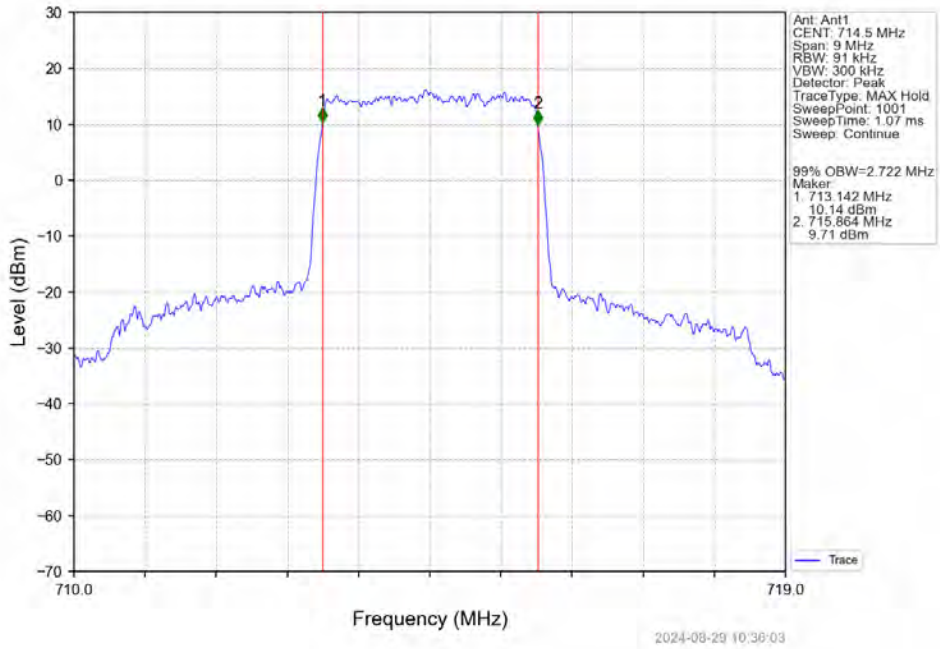
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



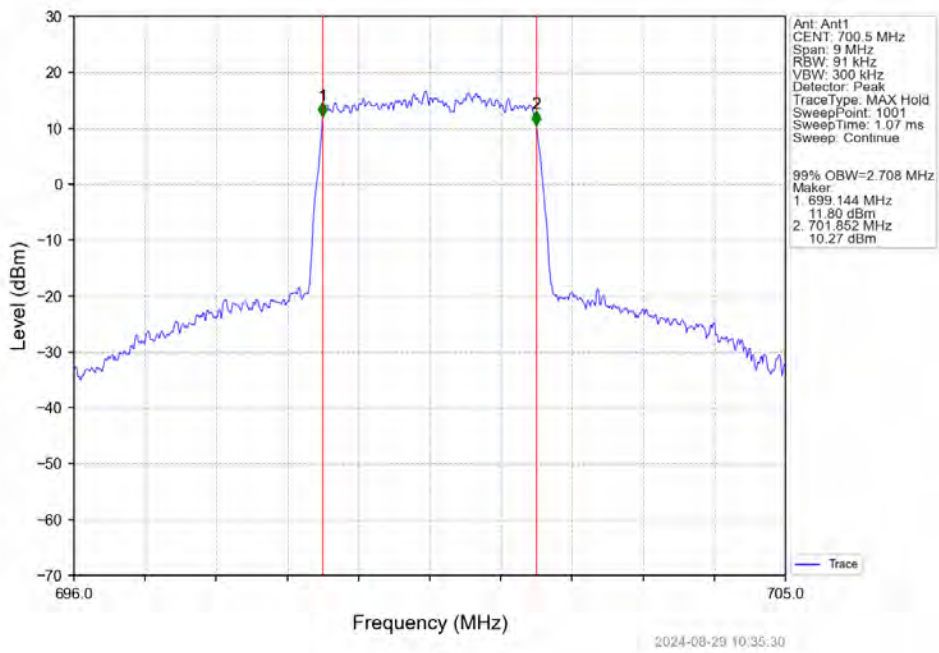
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



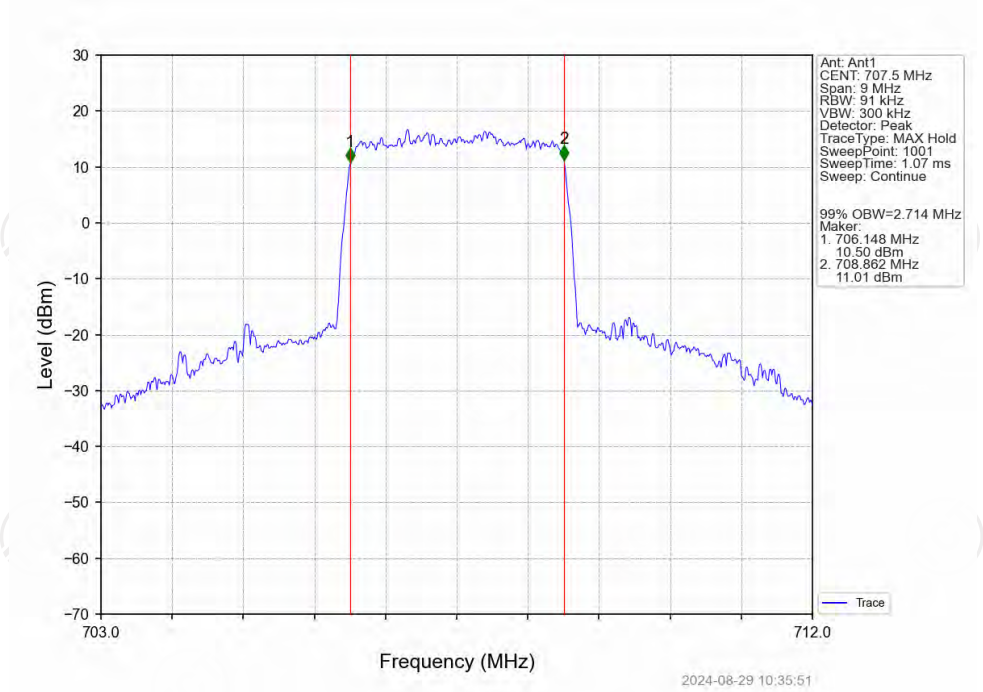
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



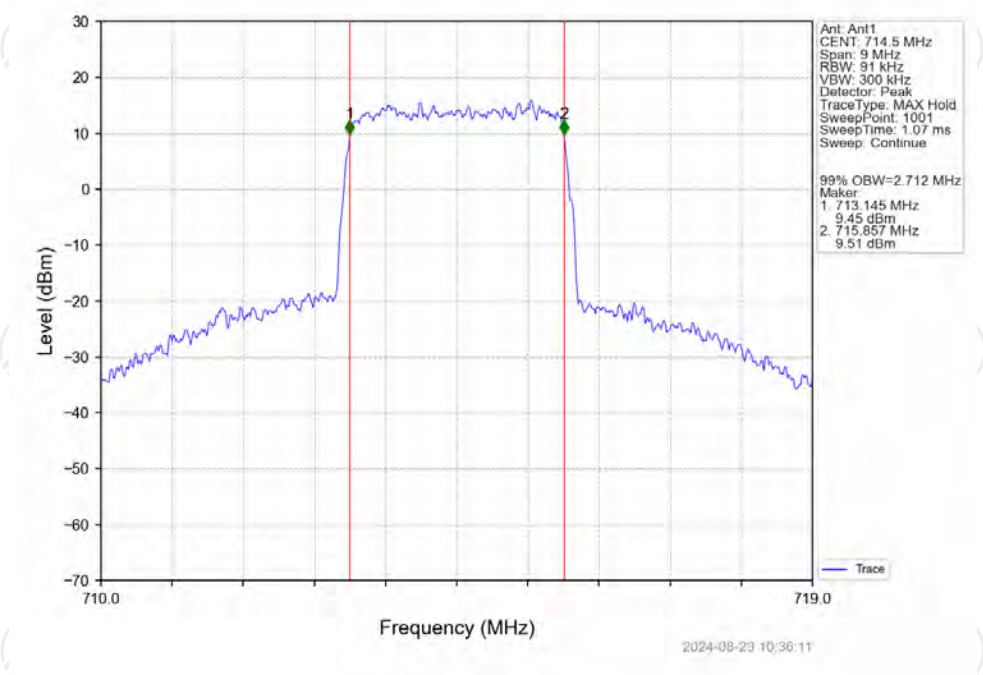
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



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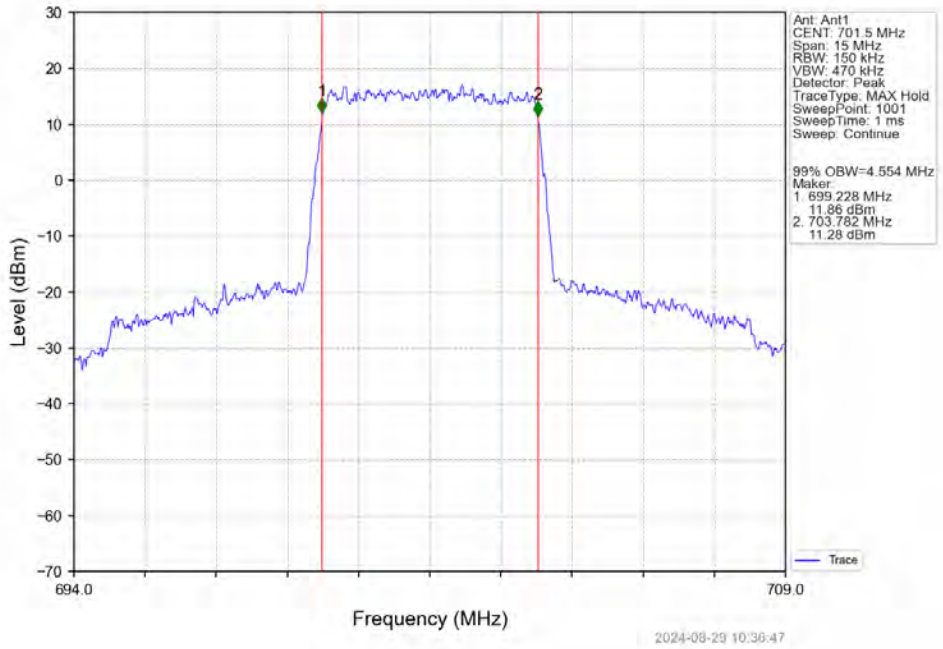
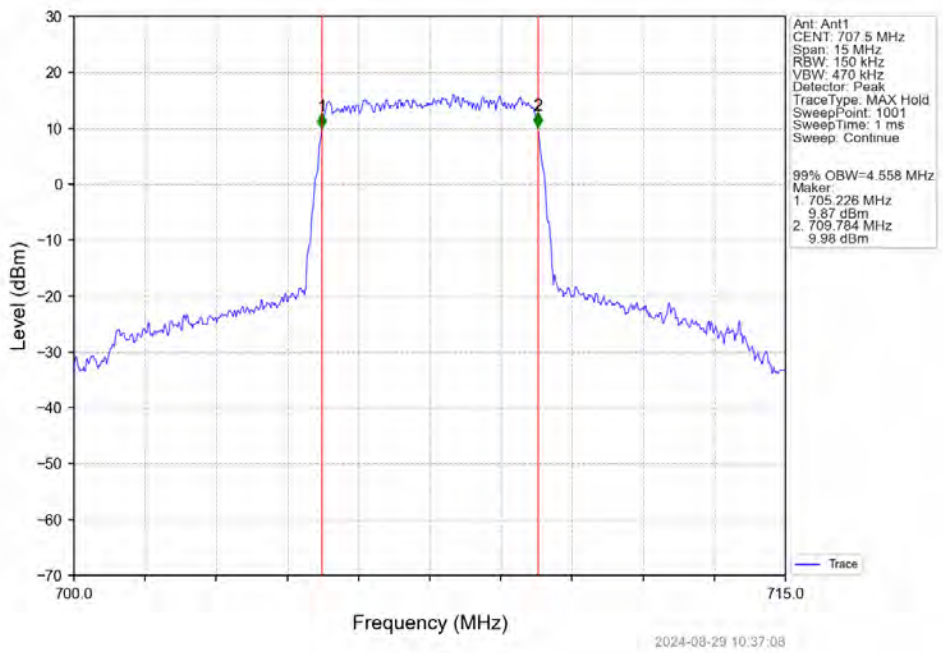
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



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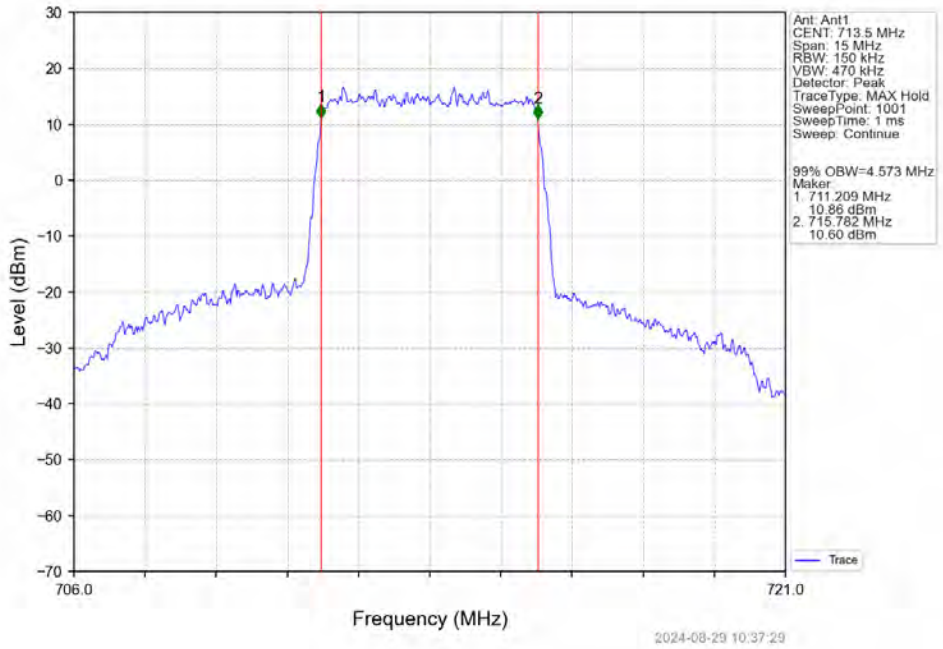
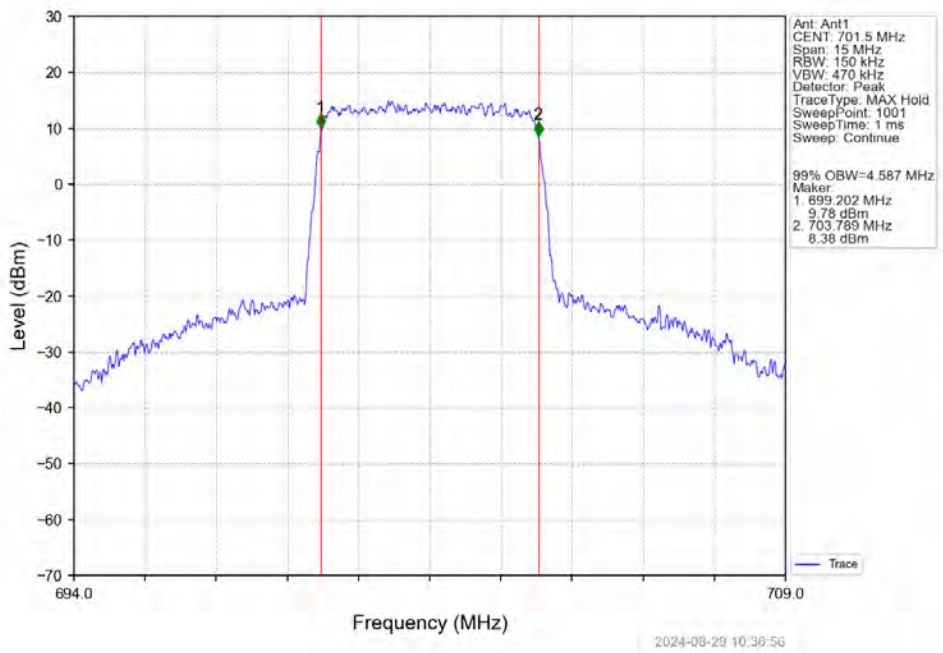
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

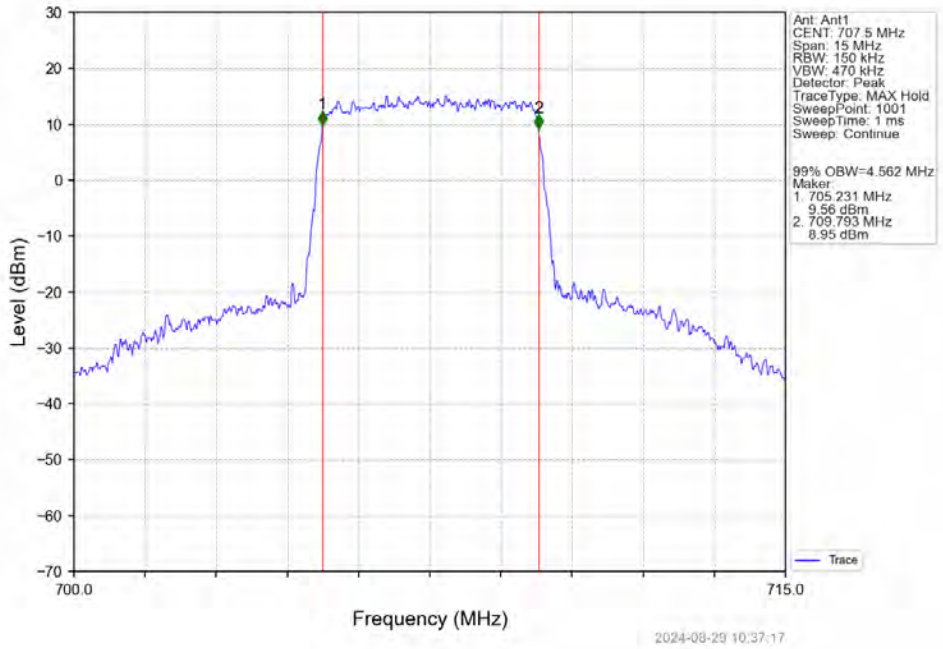


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

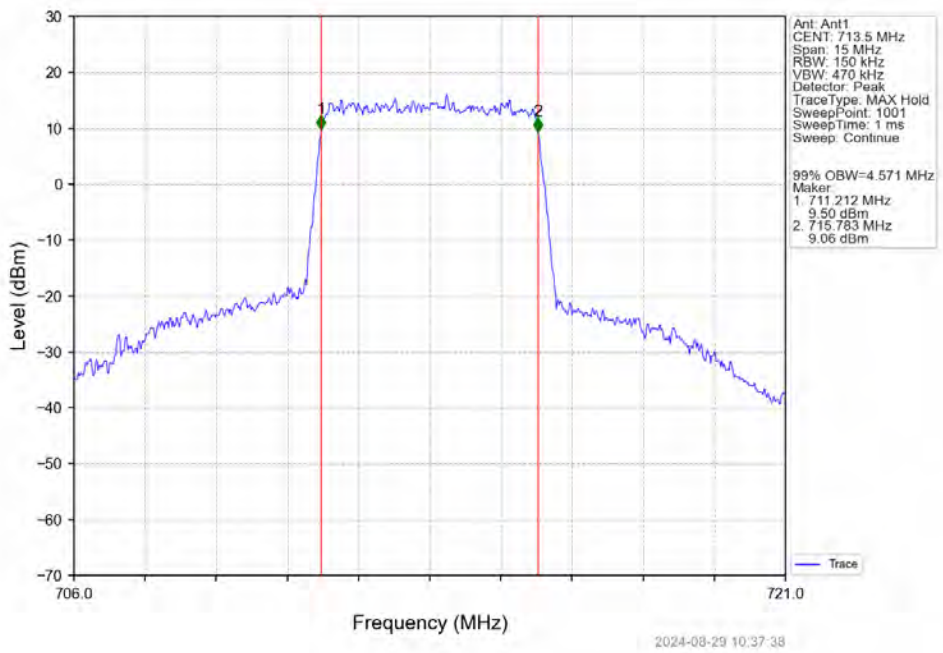


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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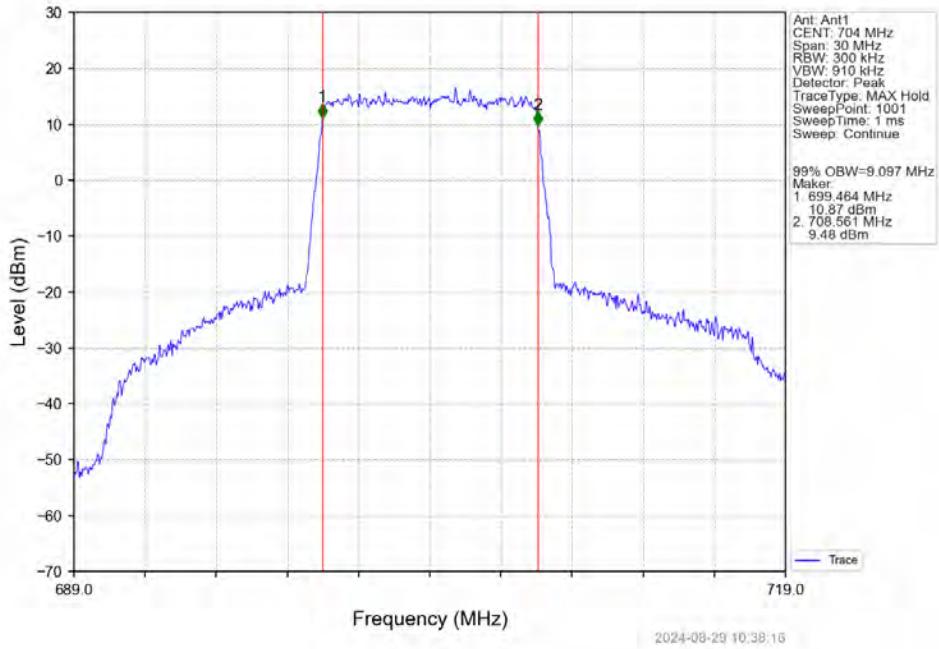
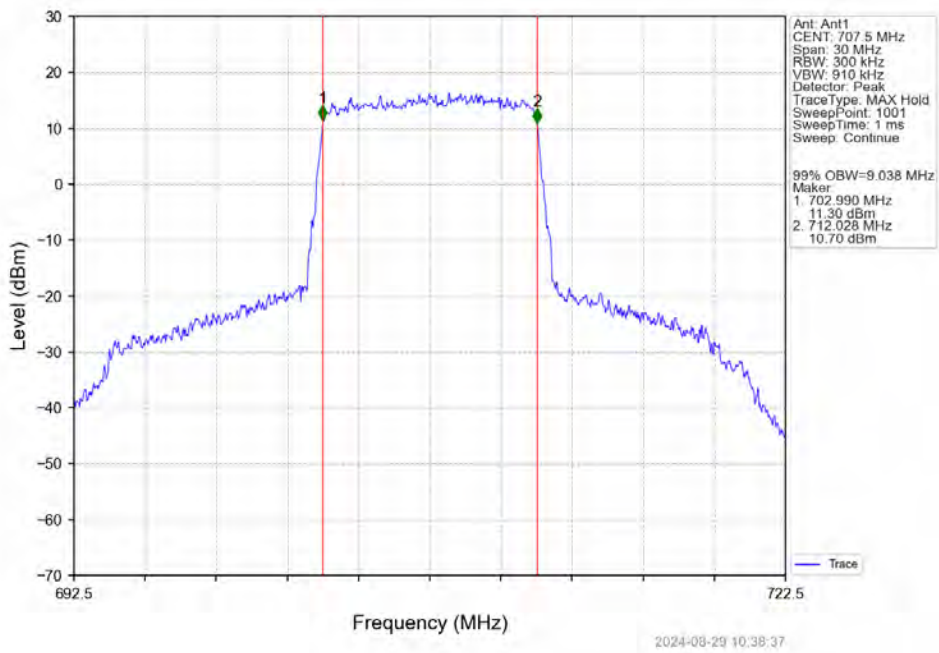
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

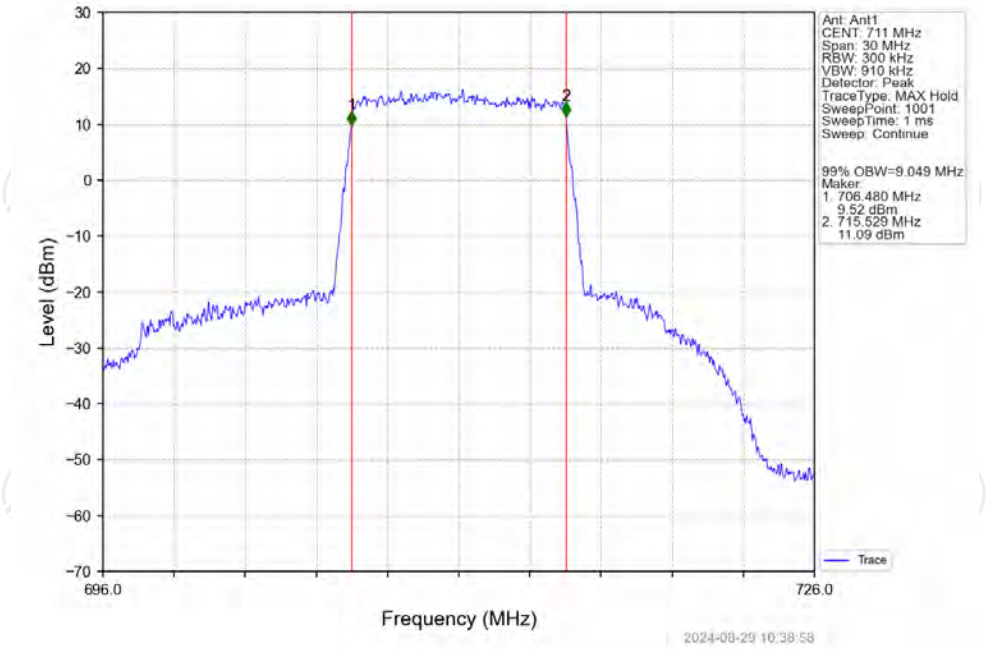


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

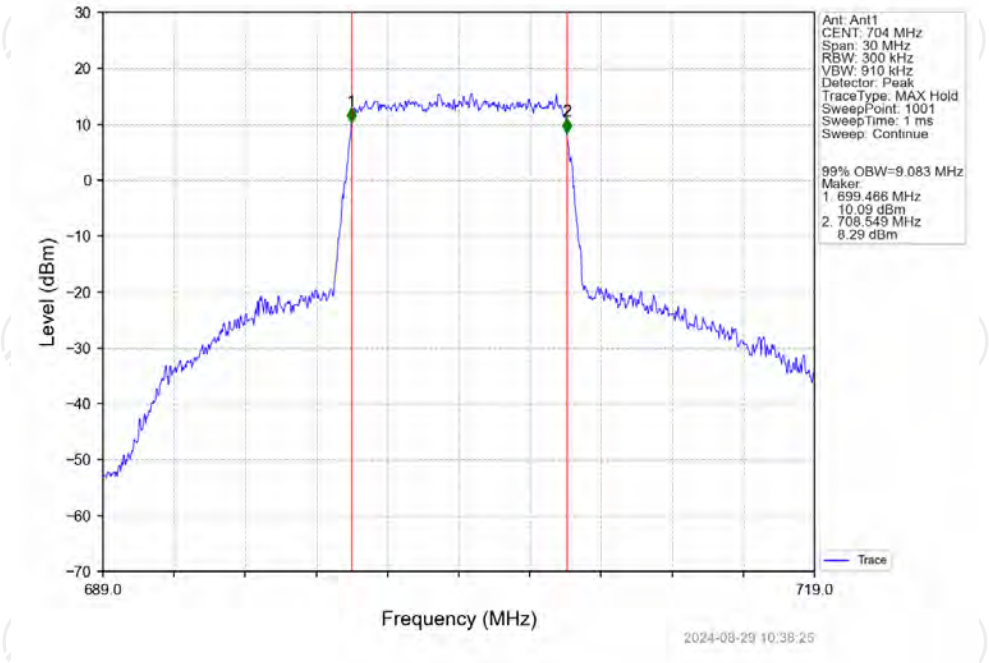


Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

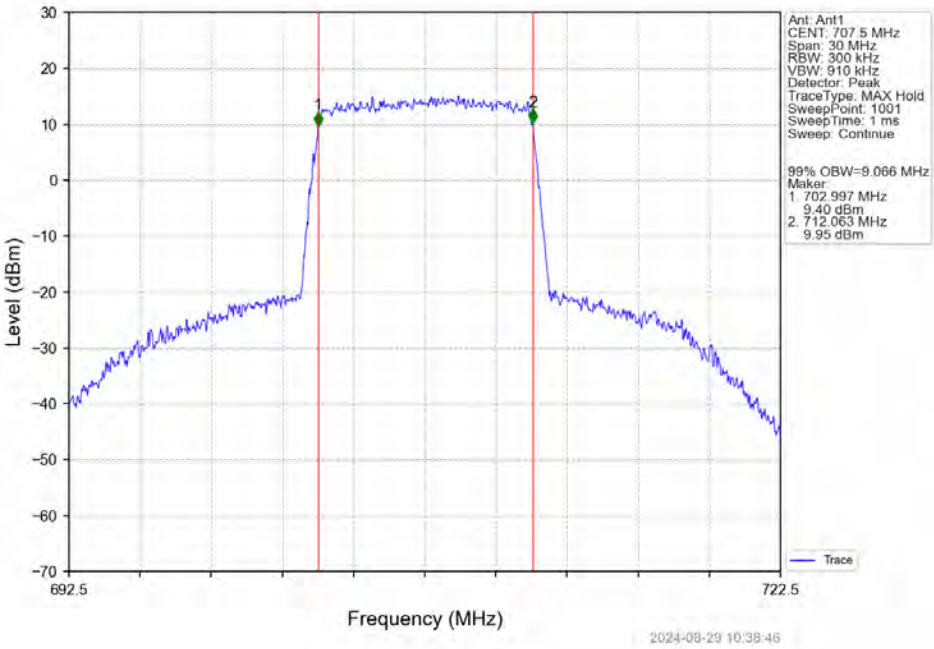
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



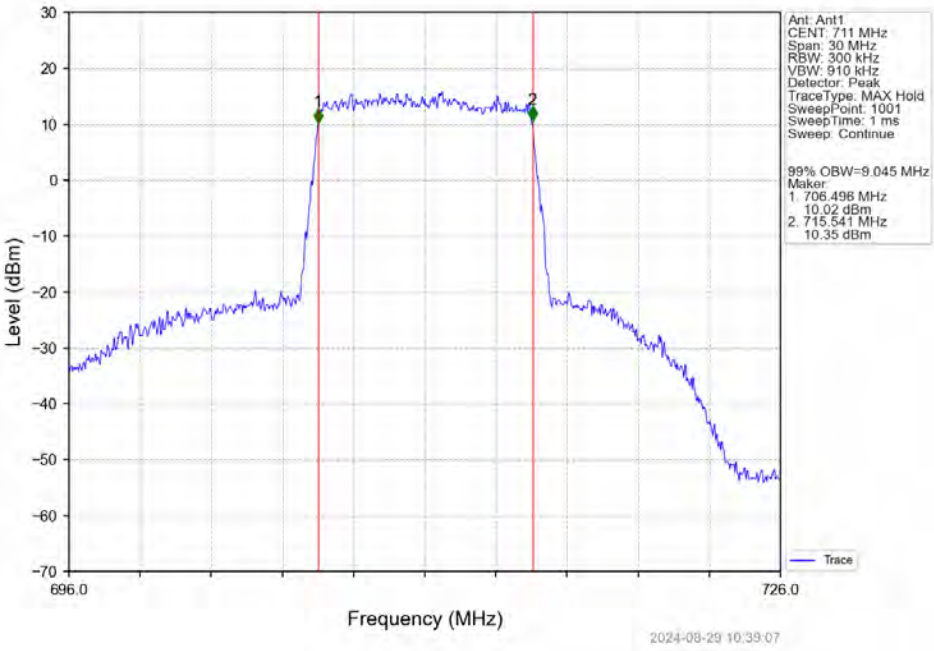
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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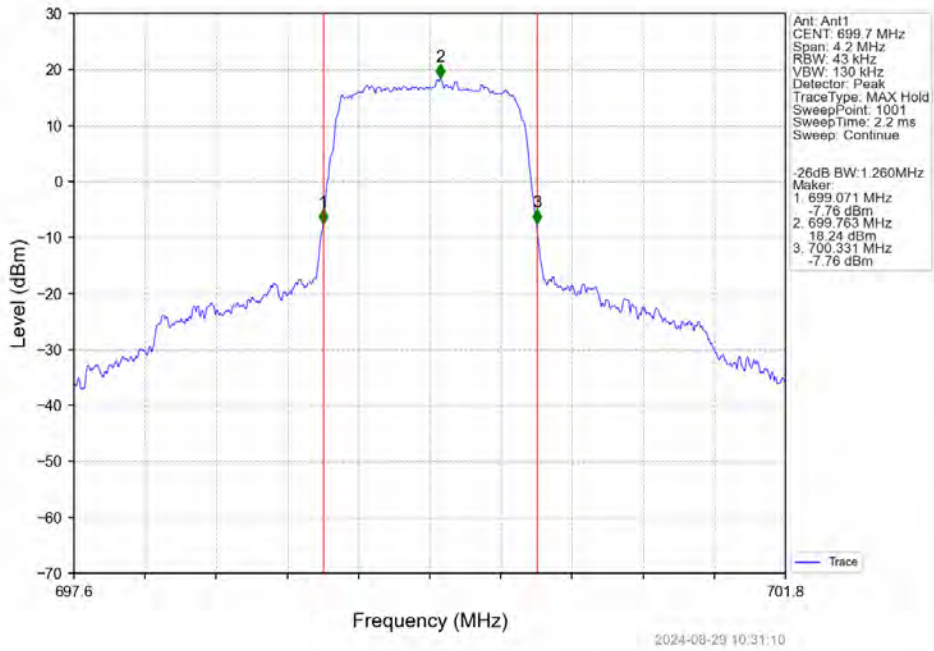
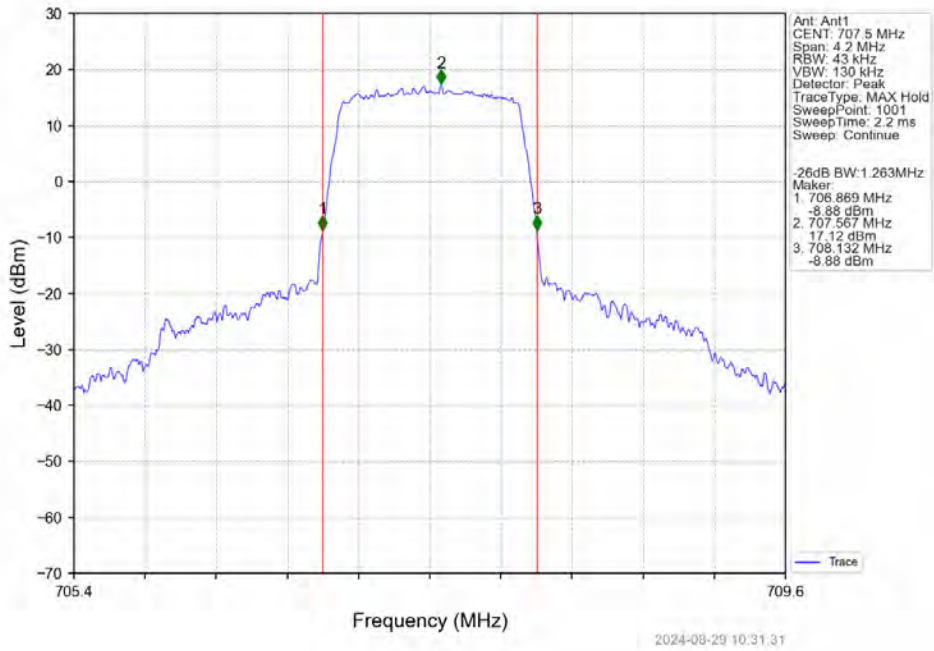
4.2.2 Band12_XDB

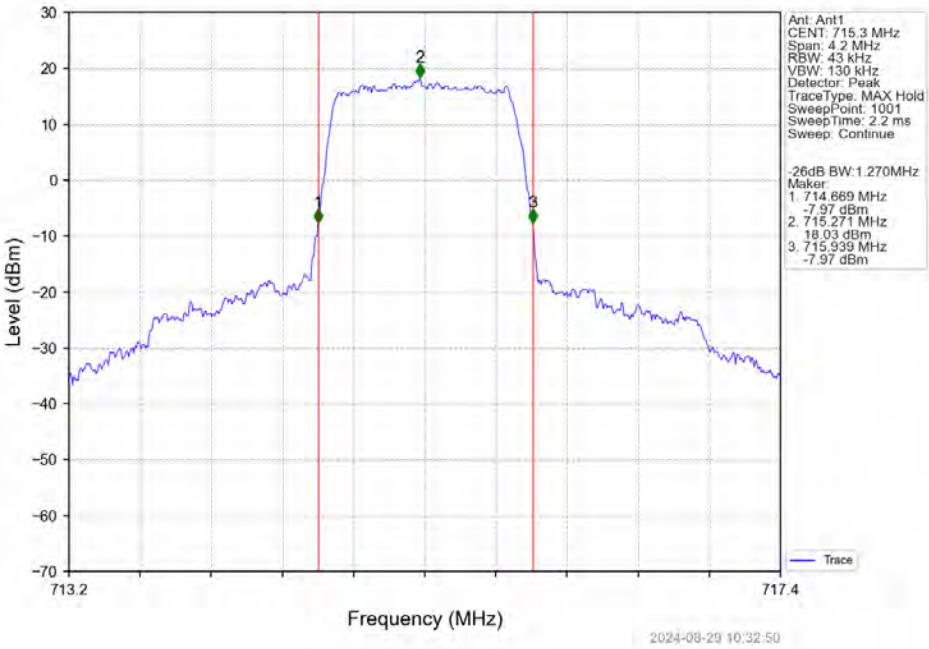
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



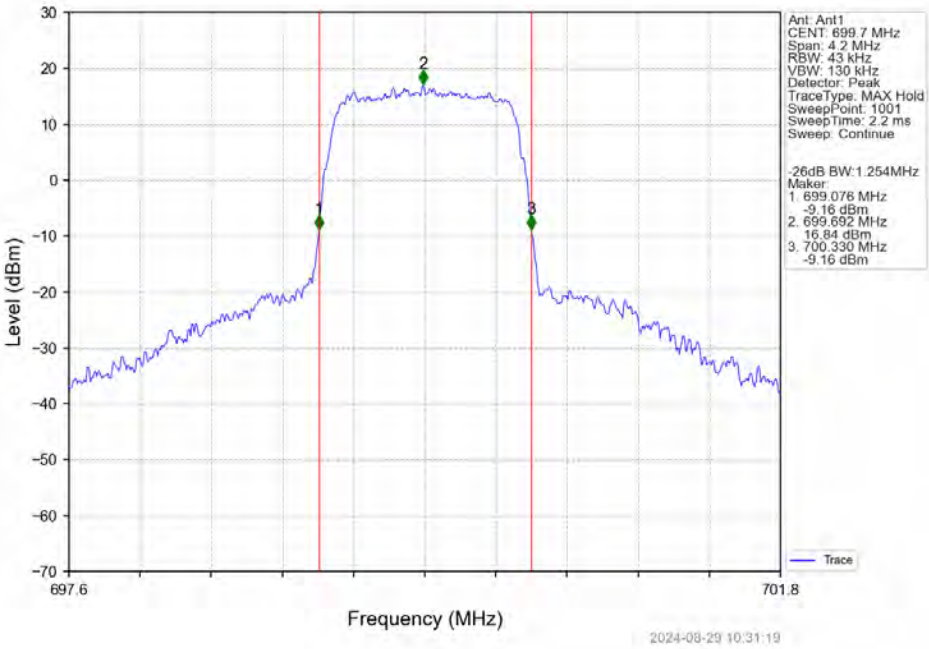
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



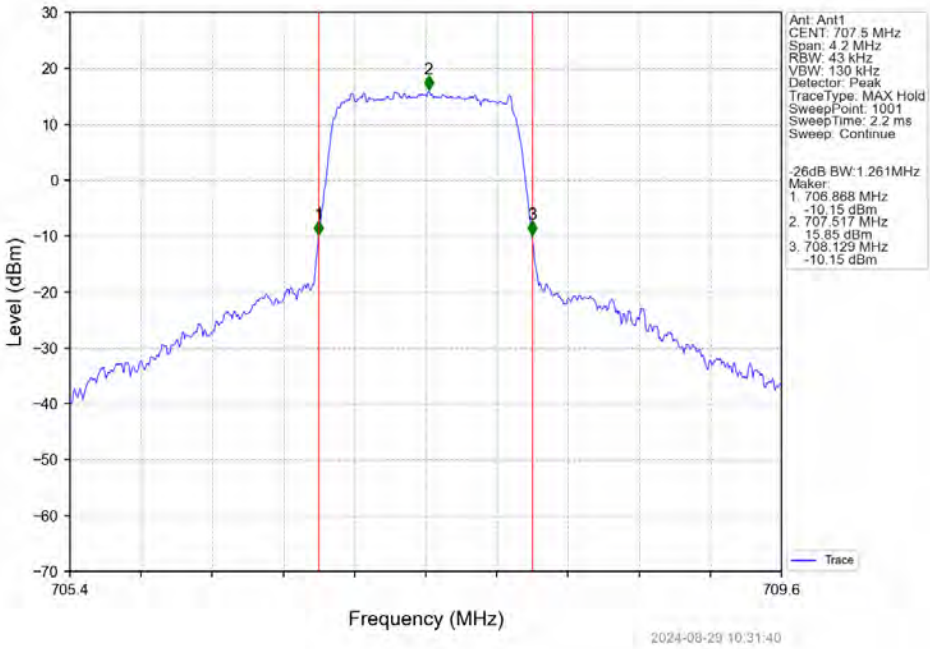
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



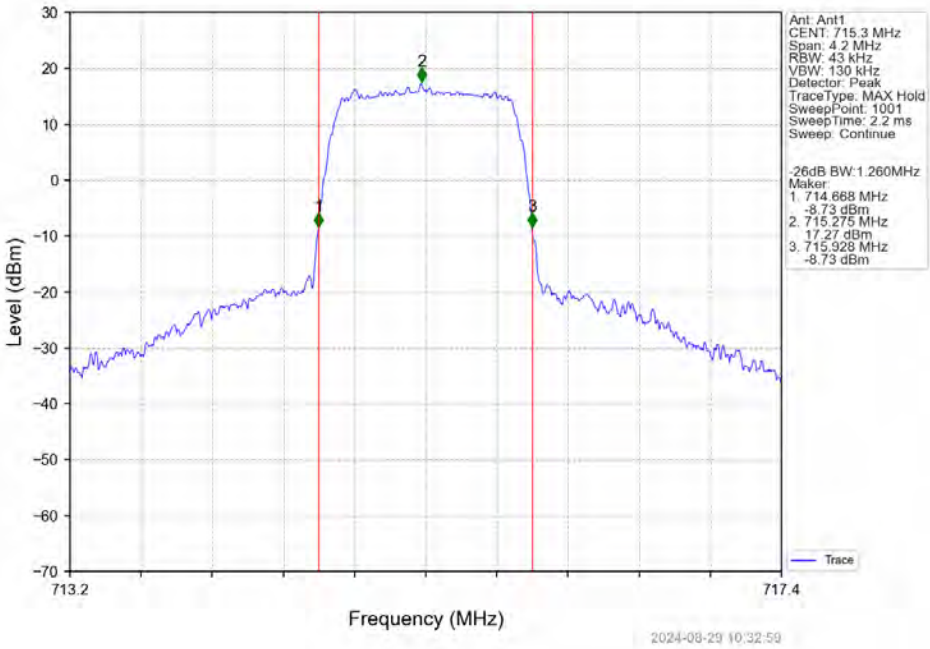
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



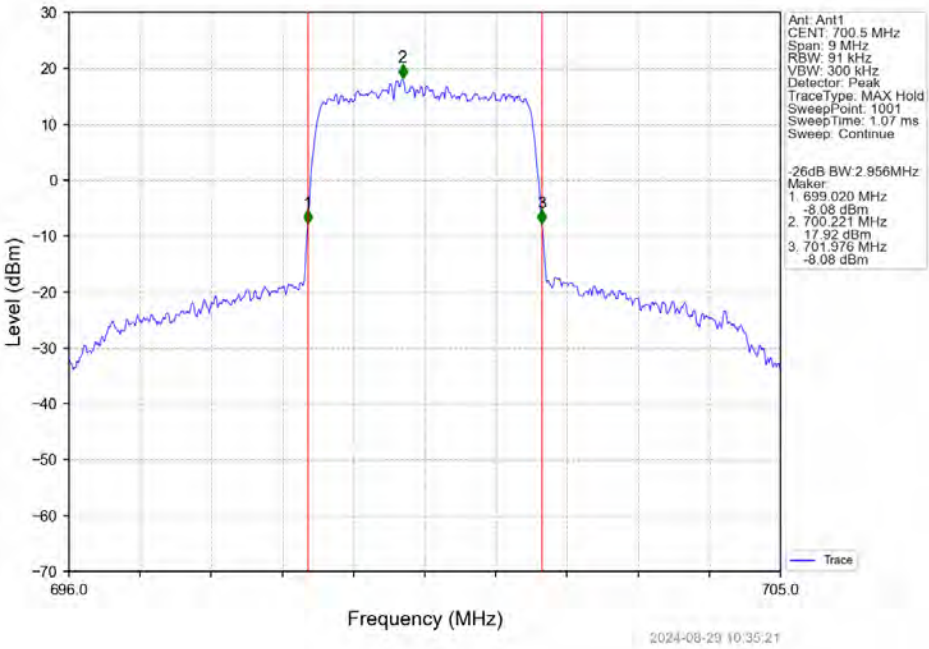
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



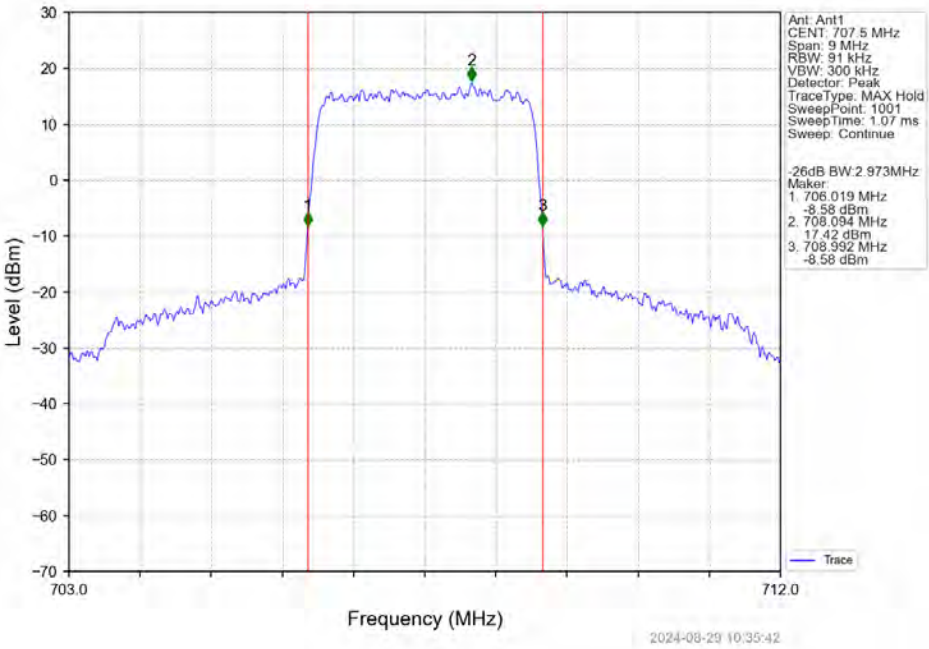
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



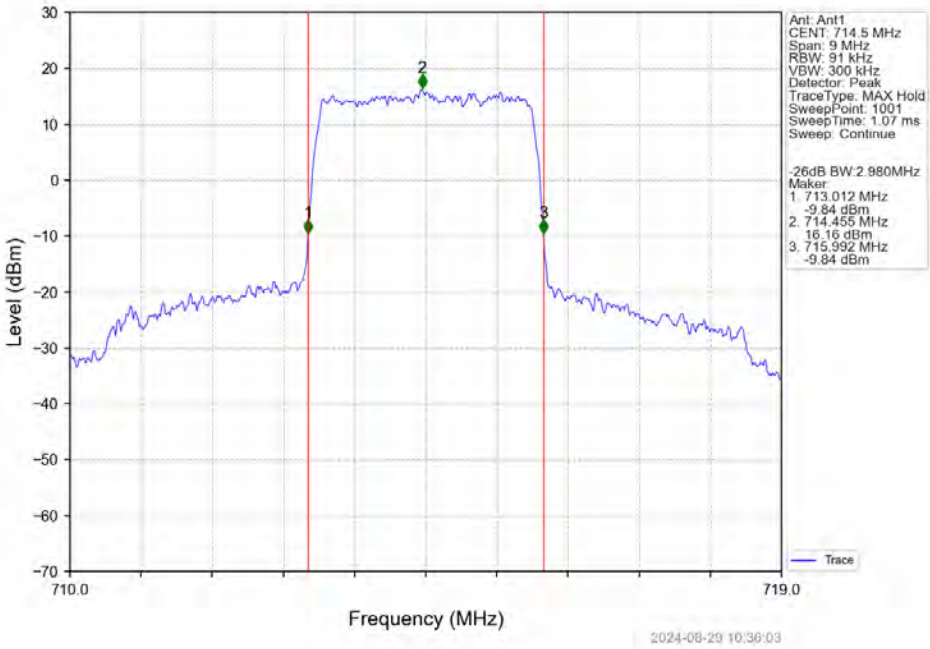
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



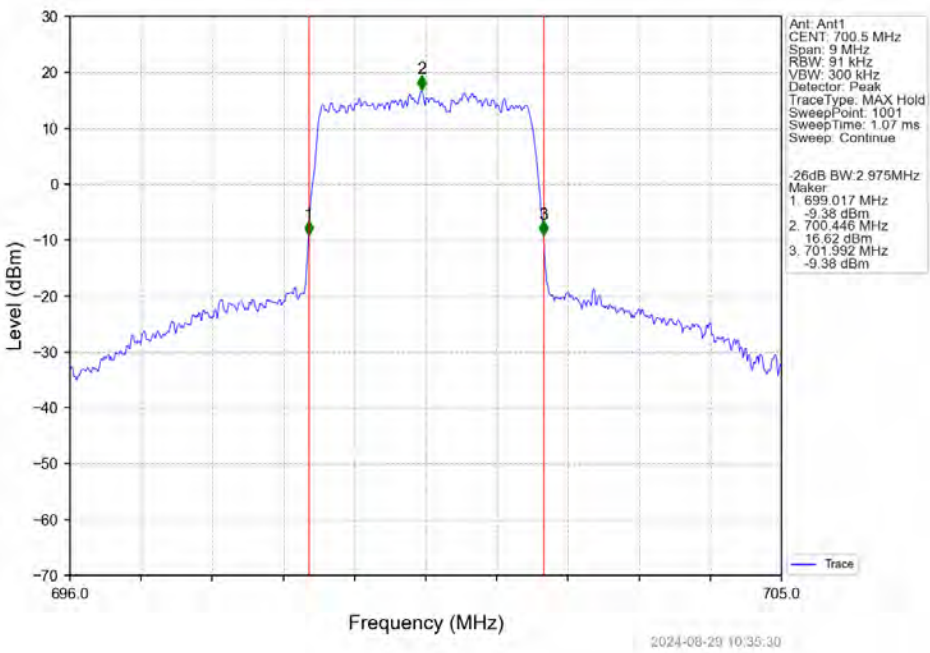
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



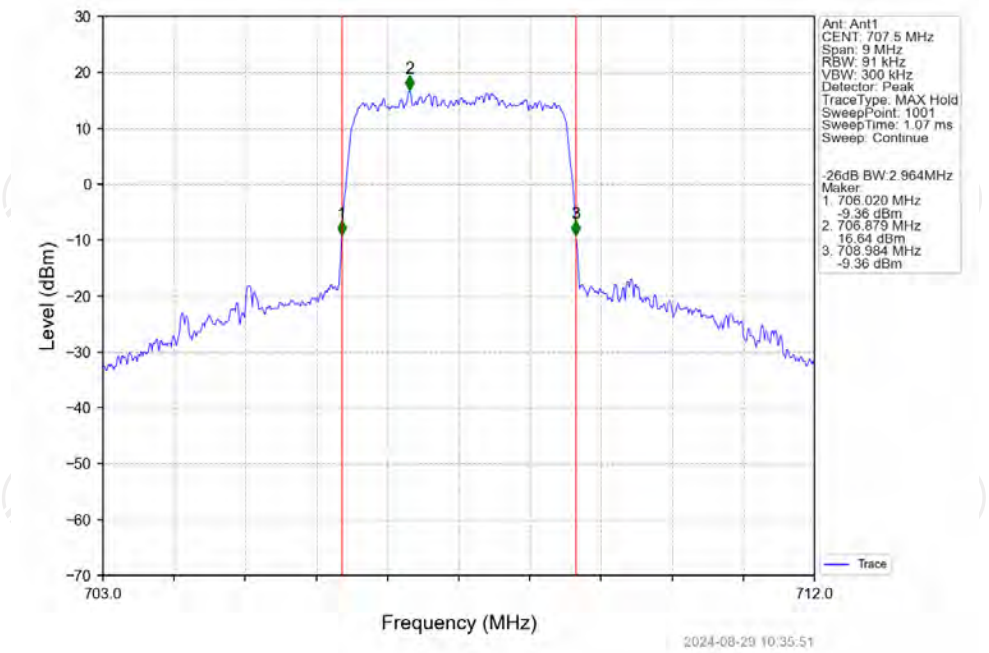
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



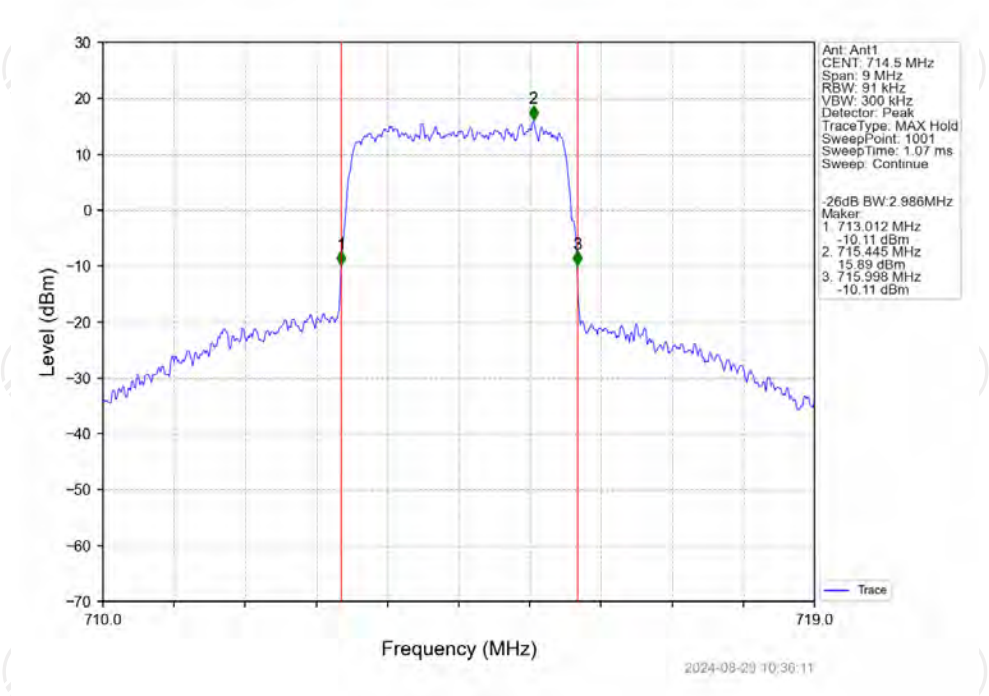
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



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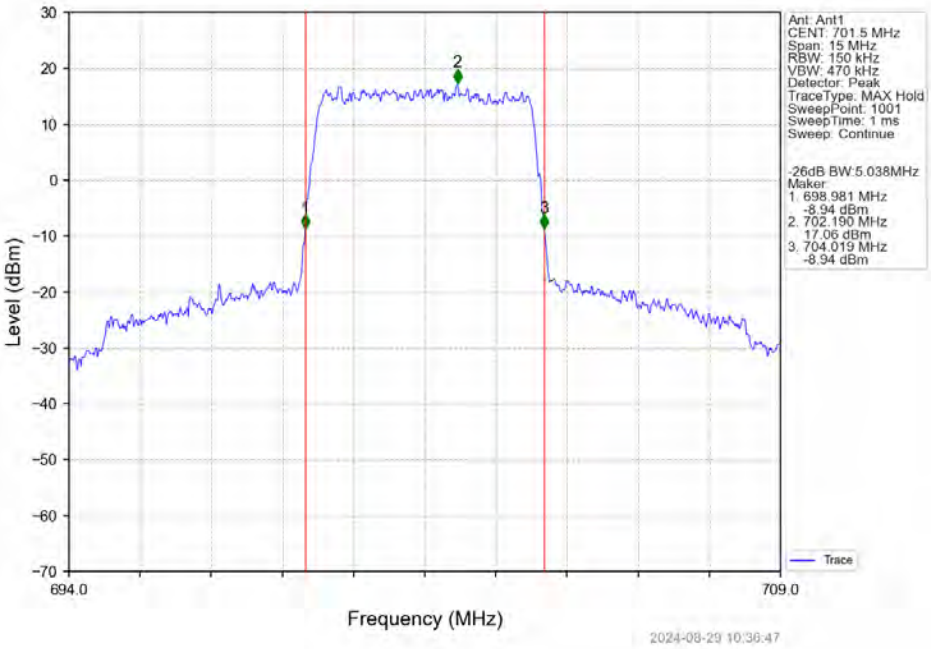
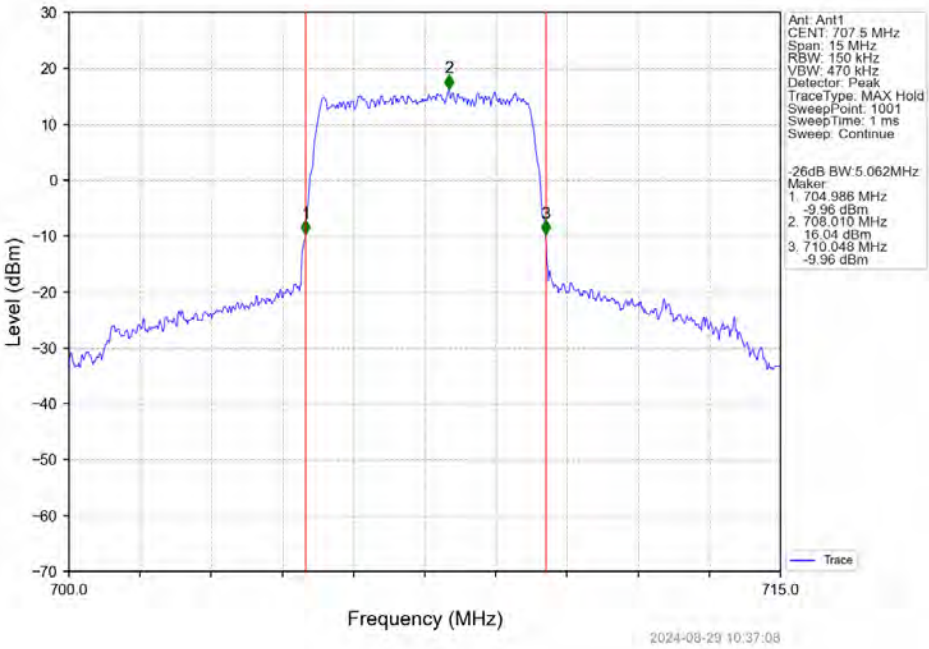
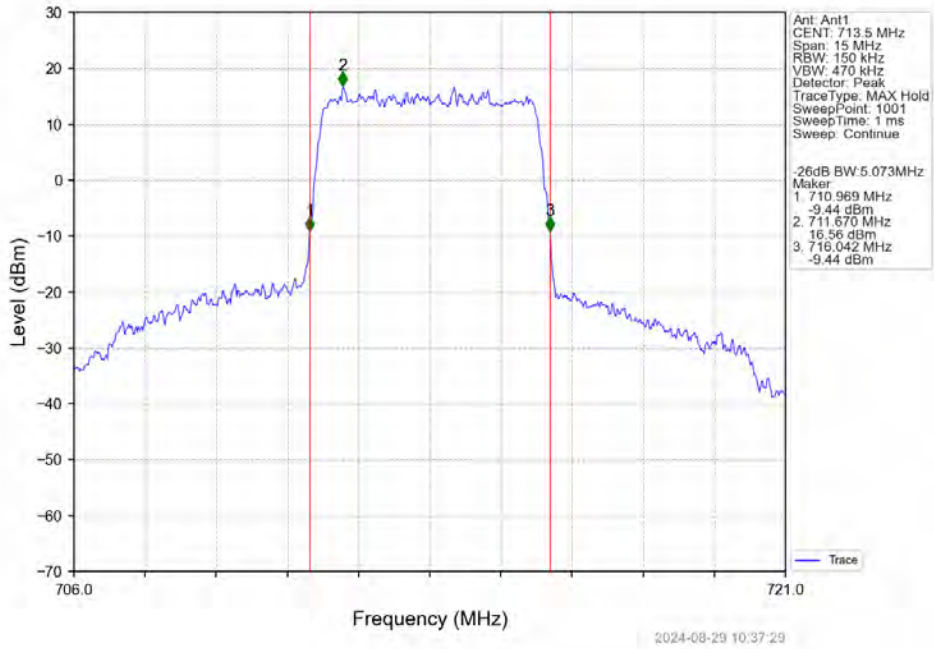
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



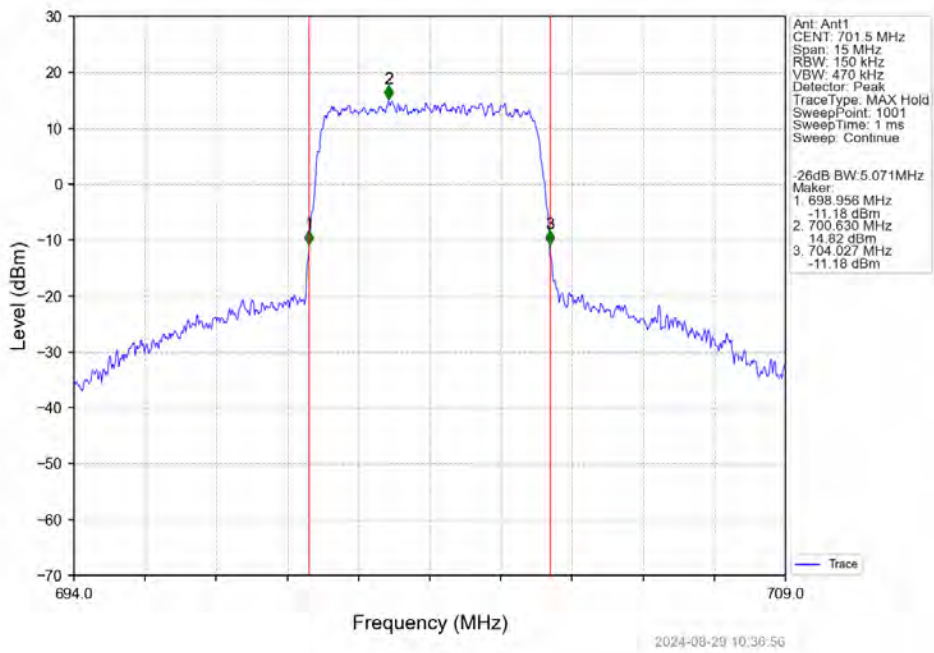
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



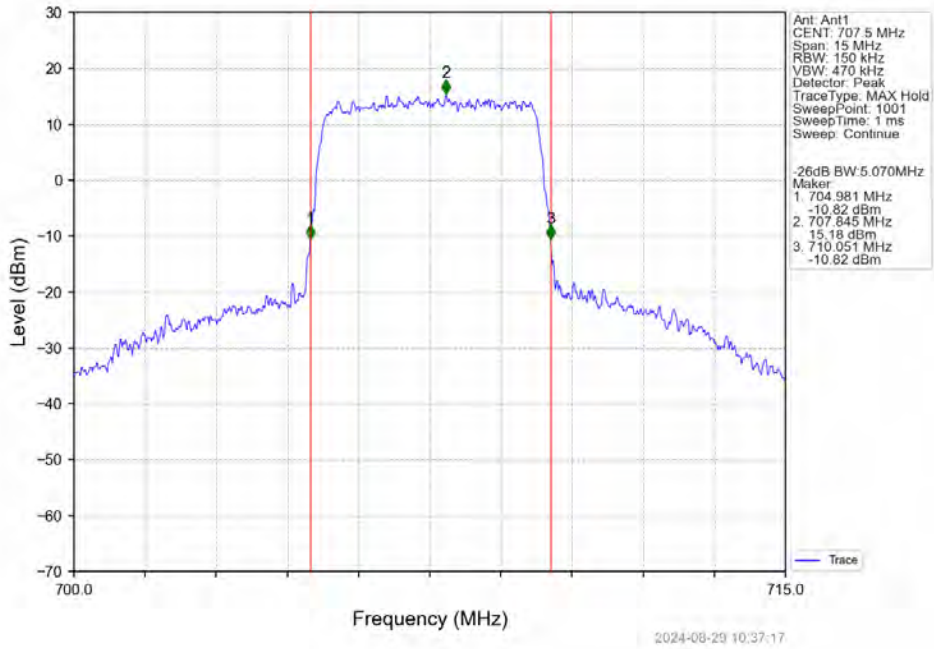
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



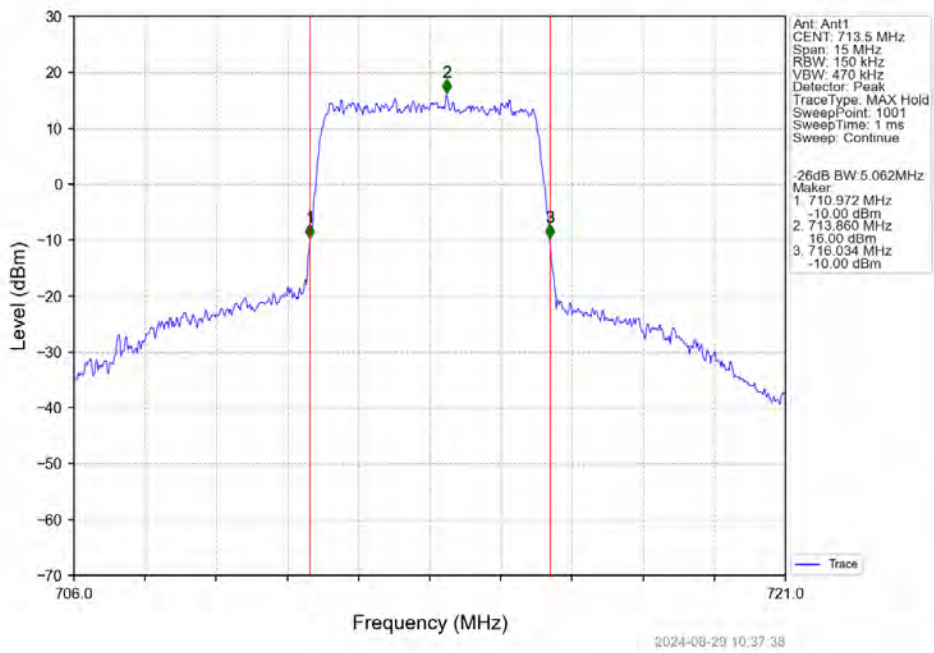
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



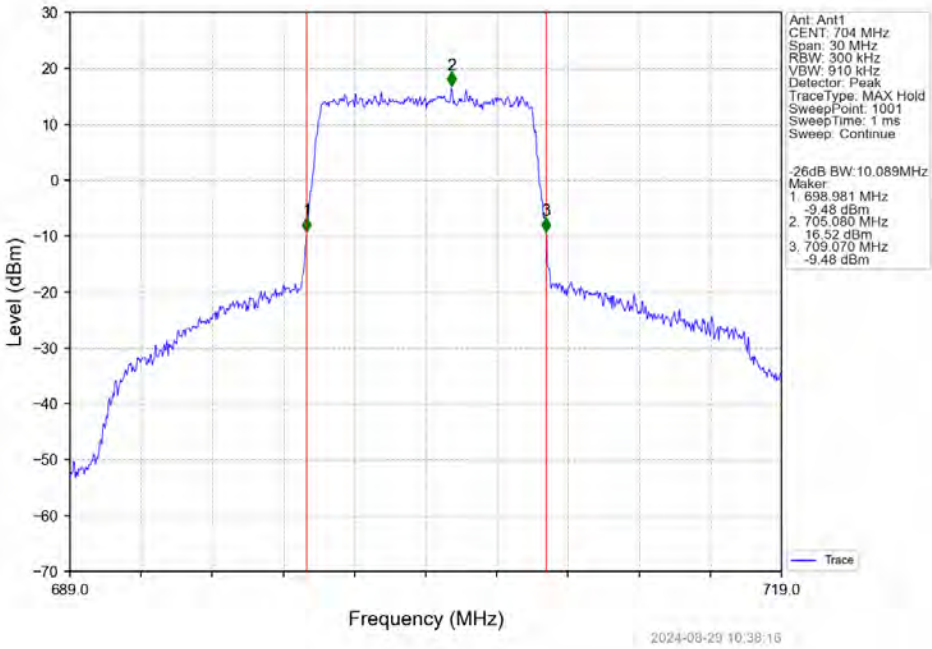
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



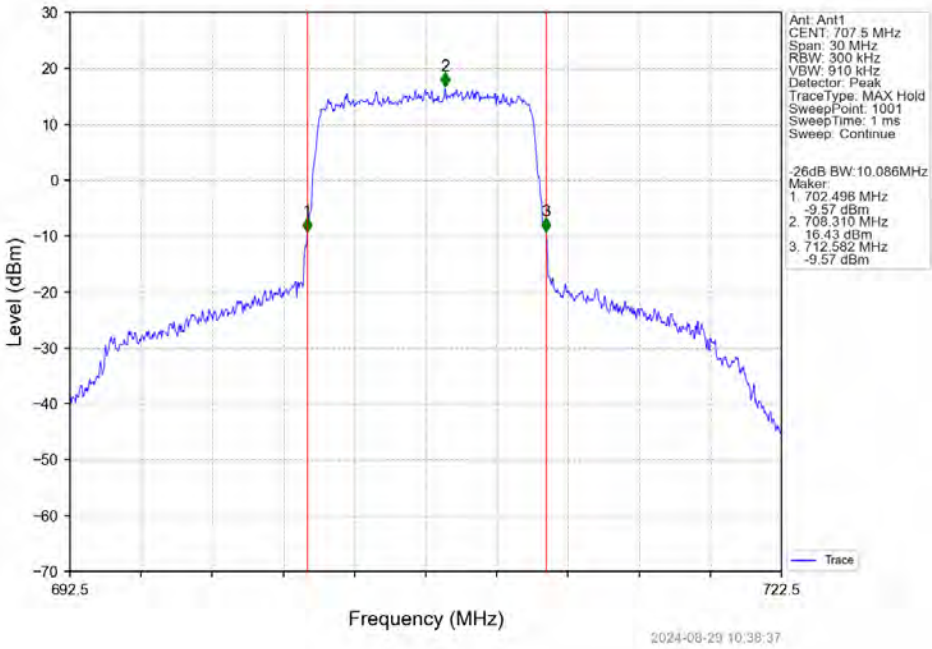
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



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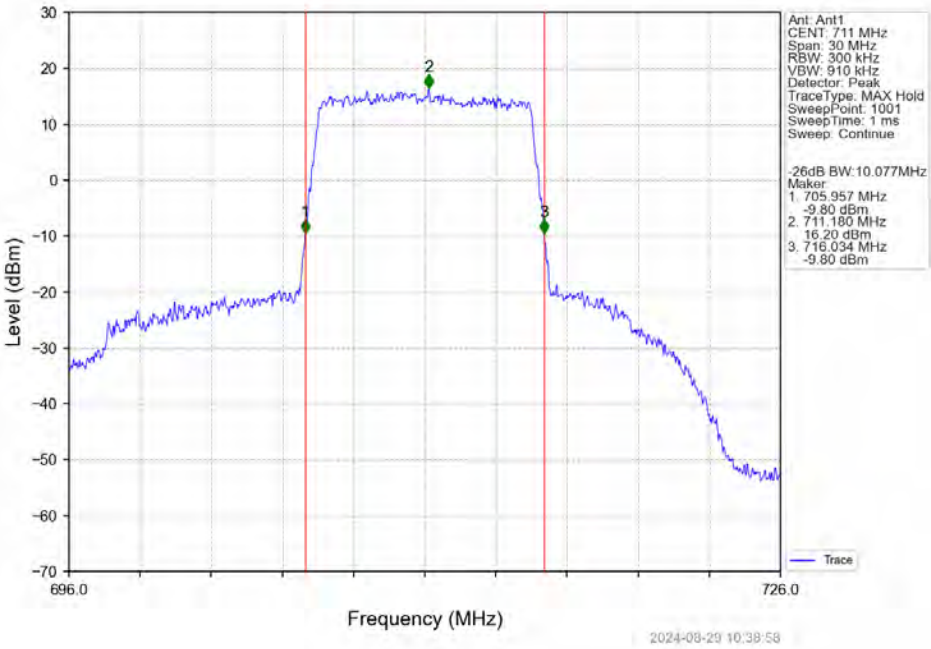
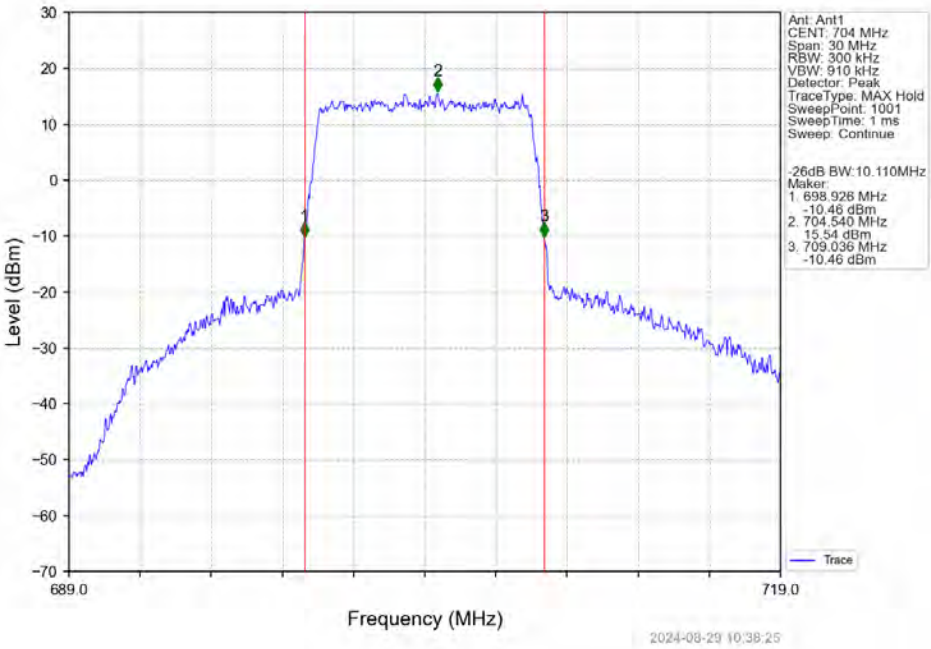
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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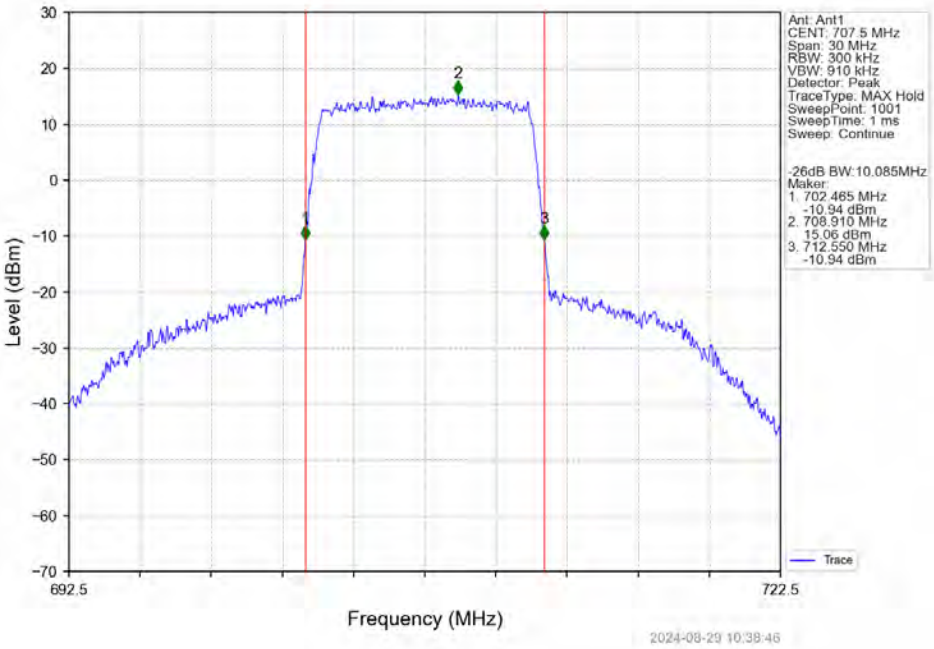
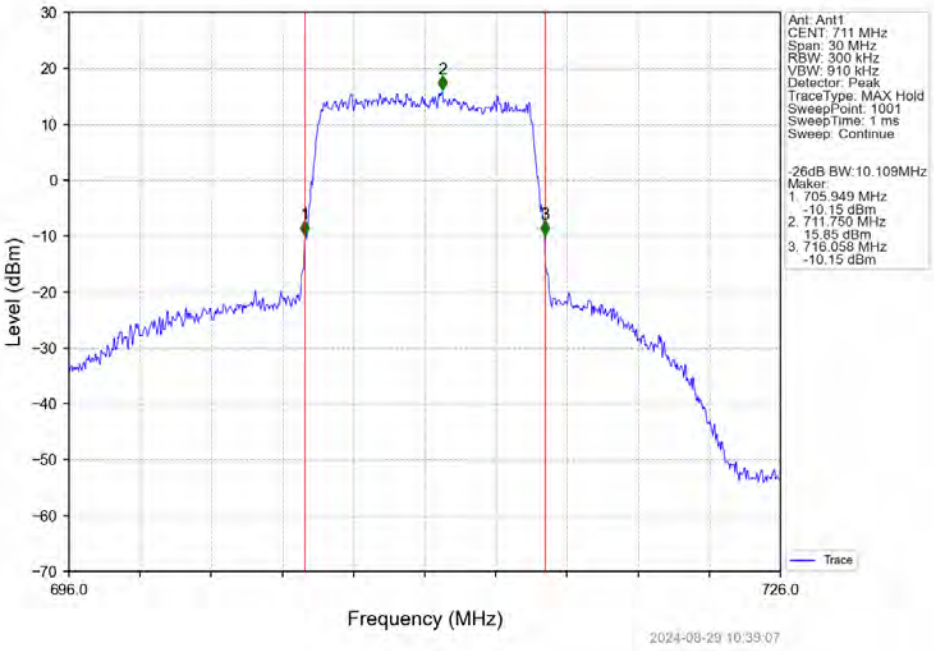
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.34	<=13	Pass
	707.5	6	0	5.35	<=13	Pass
	715.3	6	0	5.20	<=13	Pass
16QAM	699.7	6	0	6.12	<=13	Pass
	707.5	6	0	6.15	<=13	Pass
	715.3	6	0	6.15	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.31	<=13	Pass
	707.5	15	0	5.41	<=13	Pass
	714.5	15	0	5.50	<=13	Pass
16QAM	700.5	15	0	6.14	<=13	Pass
	707.5	15	0	6.33	<=13	Pass
	714.5	15	0	6.28	<=13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.59	<=13	Pass
	707.5	25	0	5.57	<=13	Pass
	713.5	25	0	5.60	<=13	Pass
16QAM	701.5	25	0	6.33	<=13	Pass
	707.5	25	0	6.30	<=13	Pass
	713.5	25	0	6.25	<=13	Pass

5.1.4 B12_10MHz

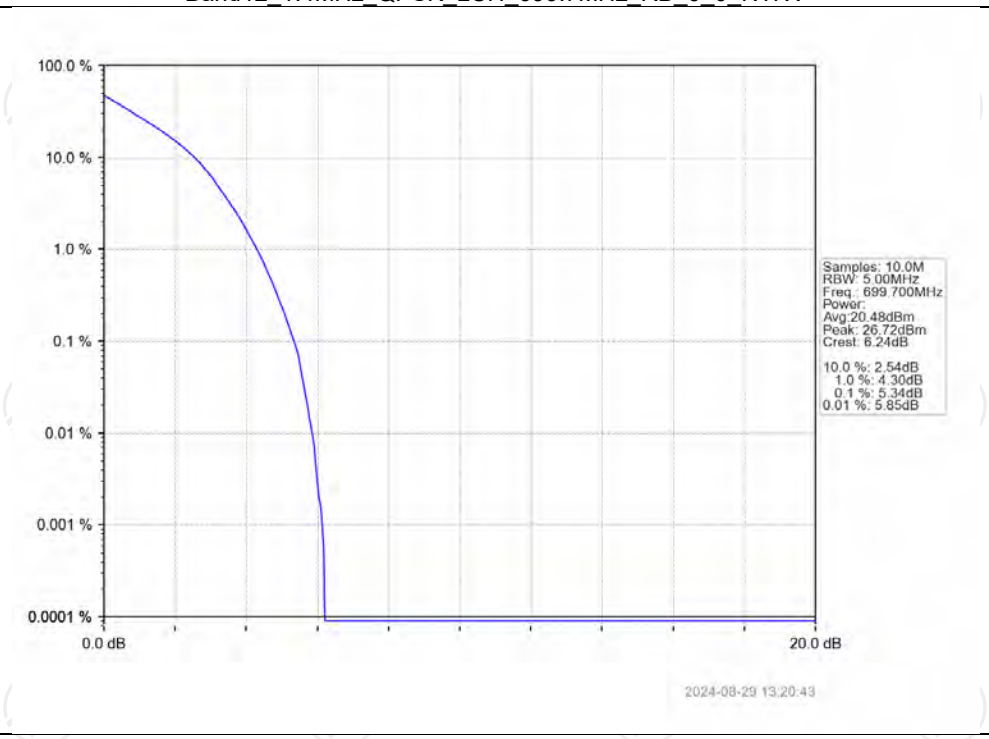
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.62	<=13	Pass
	707.5	50	0	5.47	<=13	Pass
	711	50	0	5.48	<=13	Pass
16QAM	704	50	0	6.35	<=13	Pass
	707.5	50	0	6.30	<=13	Pass

	711	50	0	6.22	<=13	Pass

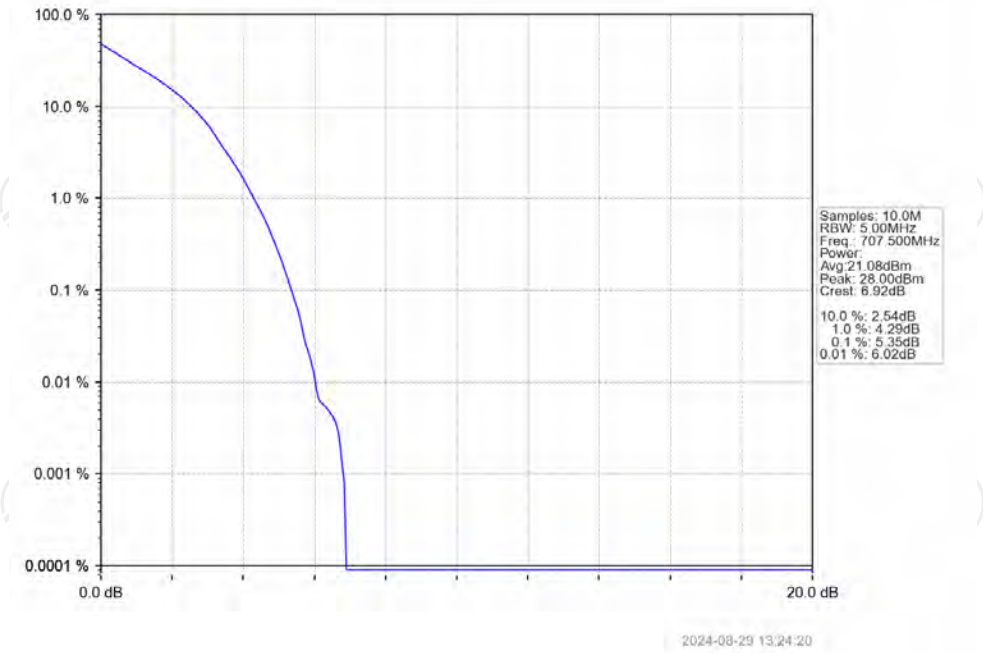
5.2 Test Graph

5.2.1 B12_1.4MHz

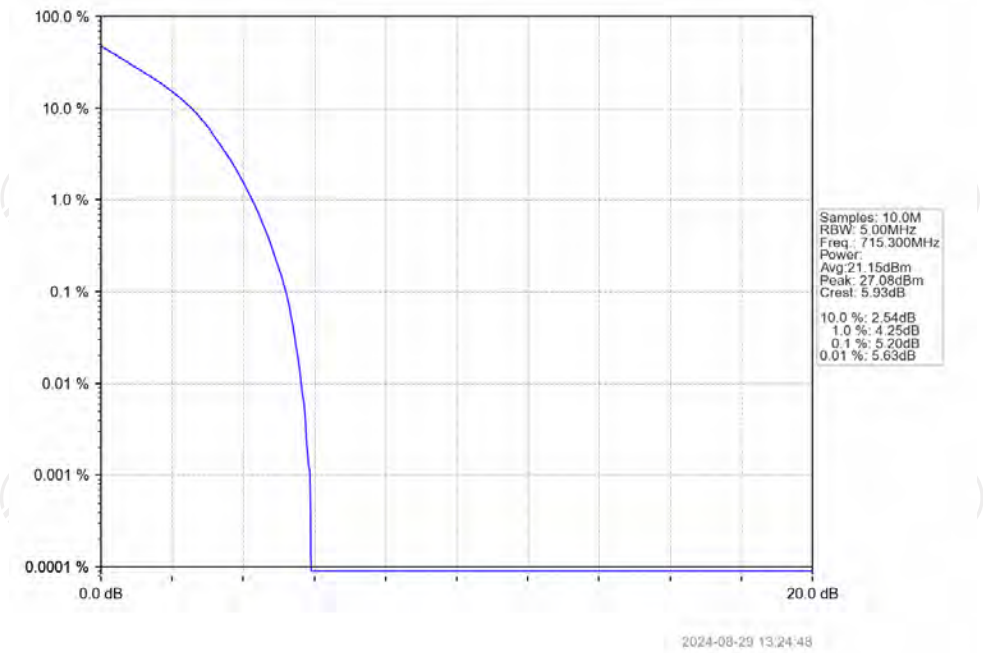
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



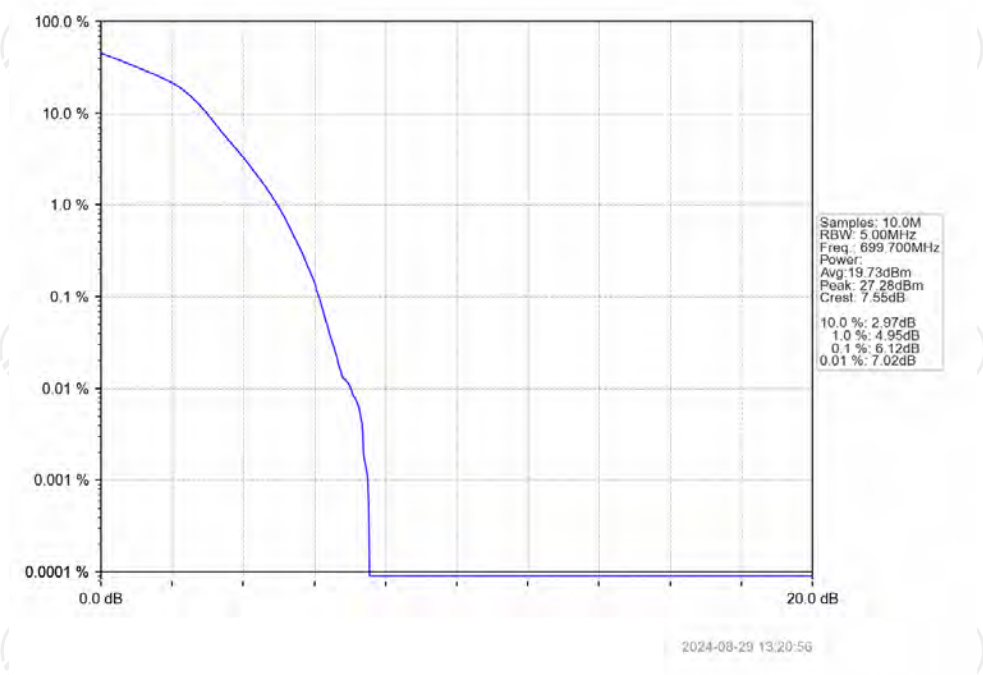
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



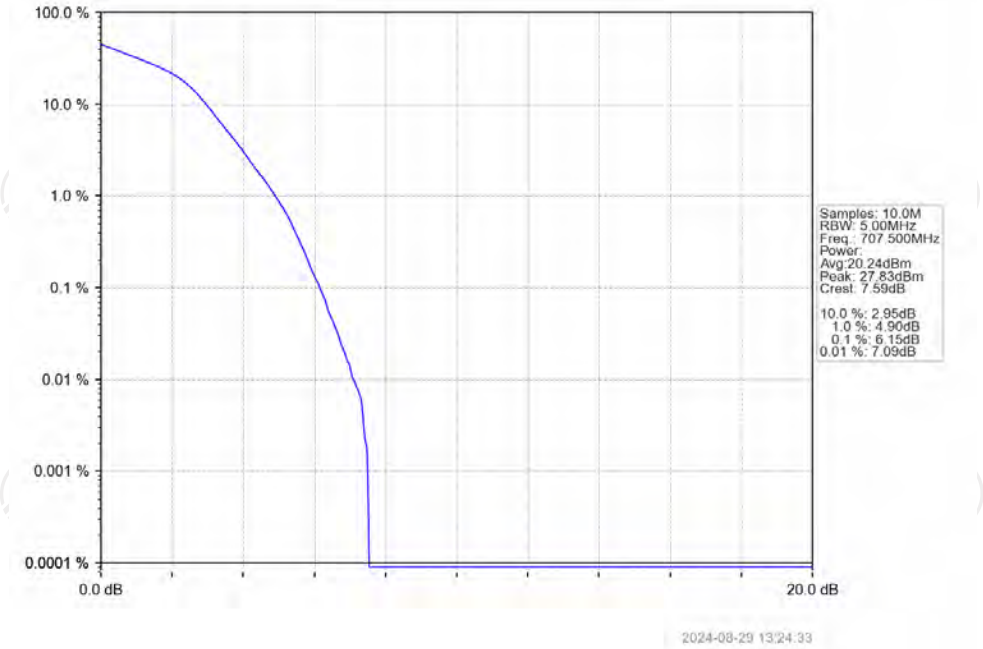
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



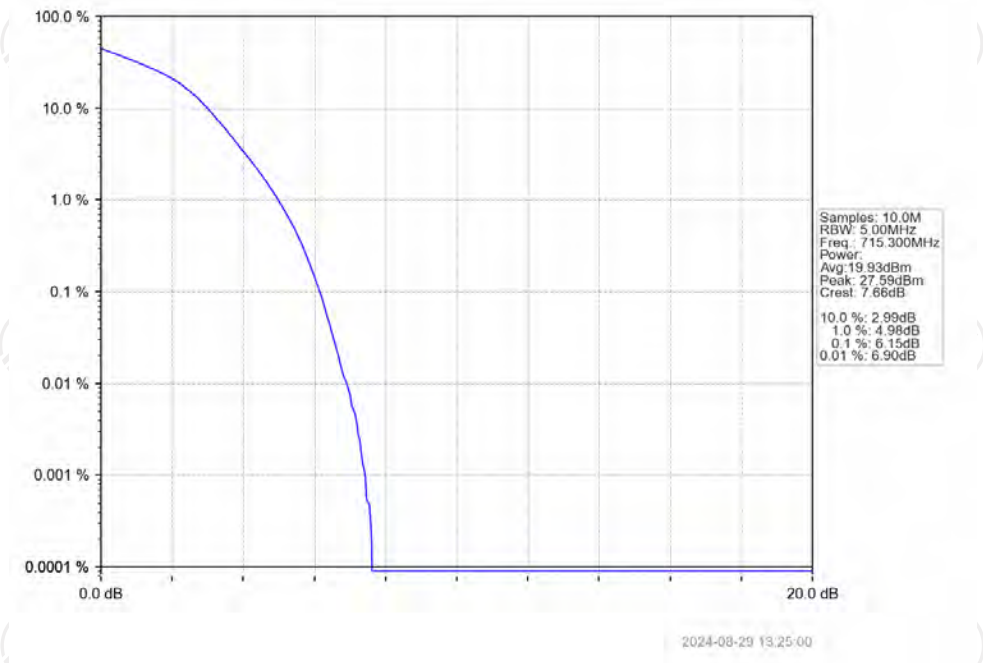
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



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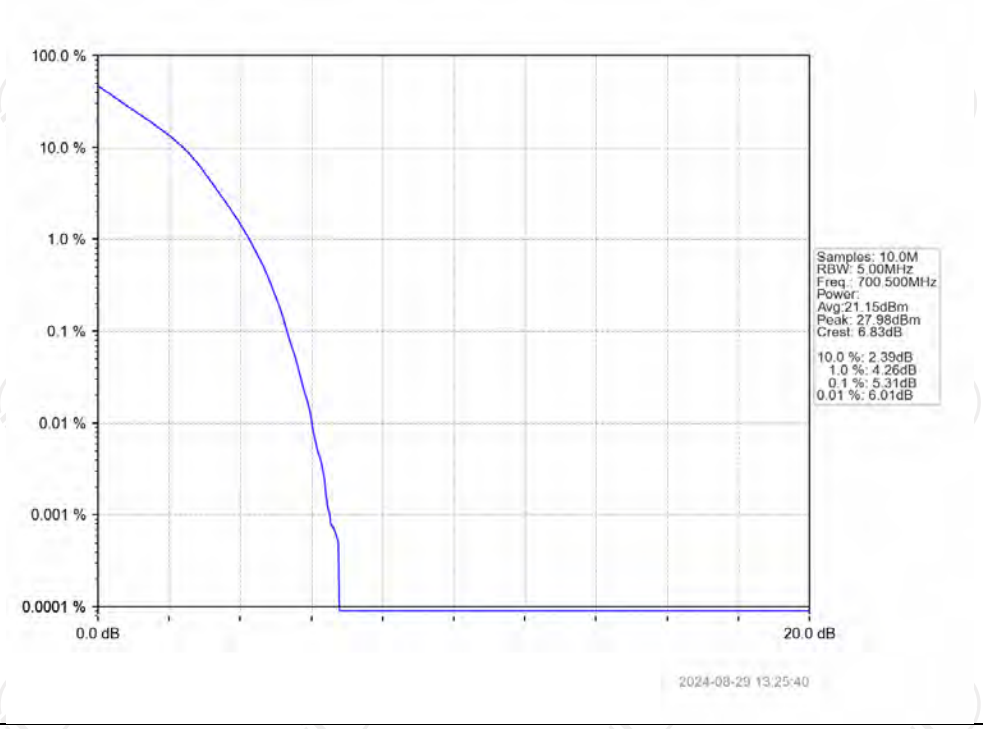
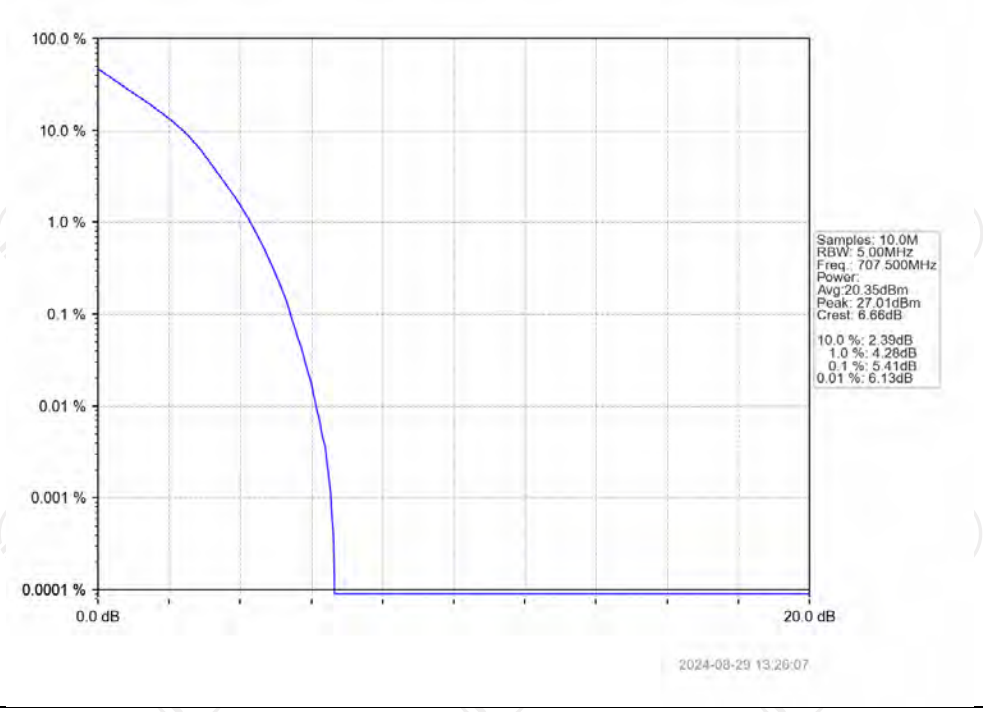
5.2.2 B12_3MHz

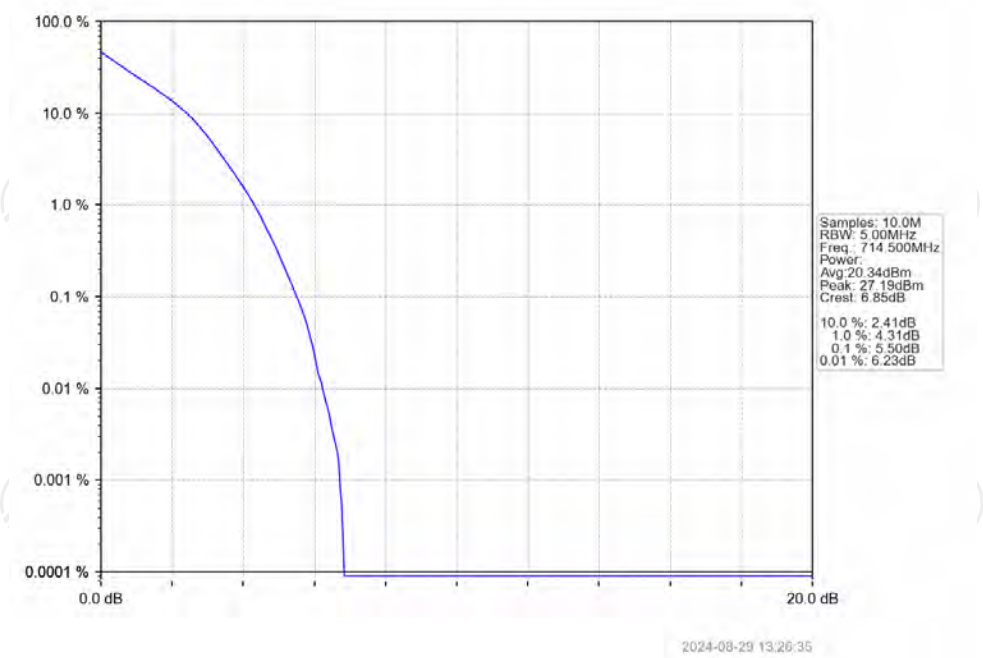
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



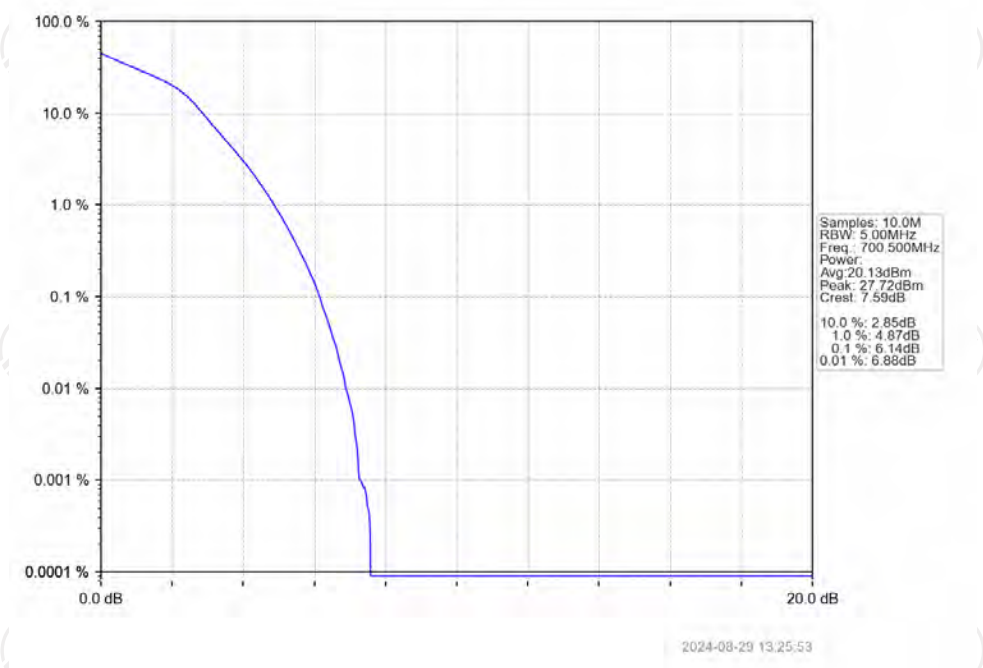
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



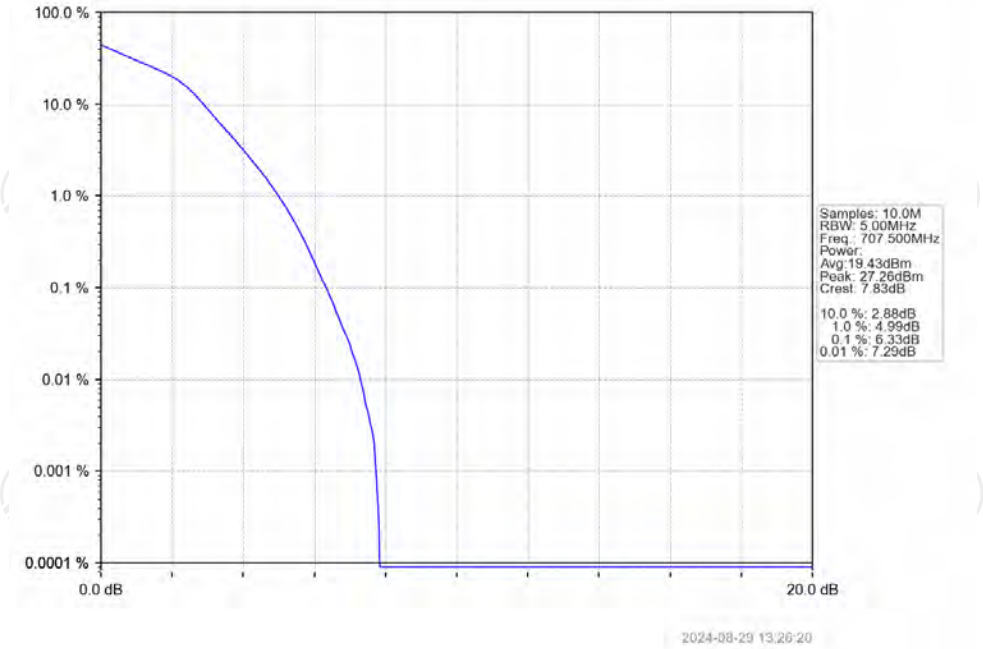
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



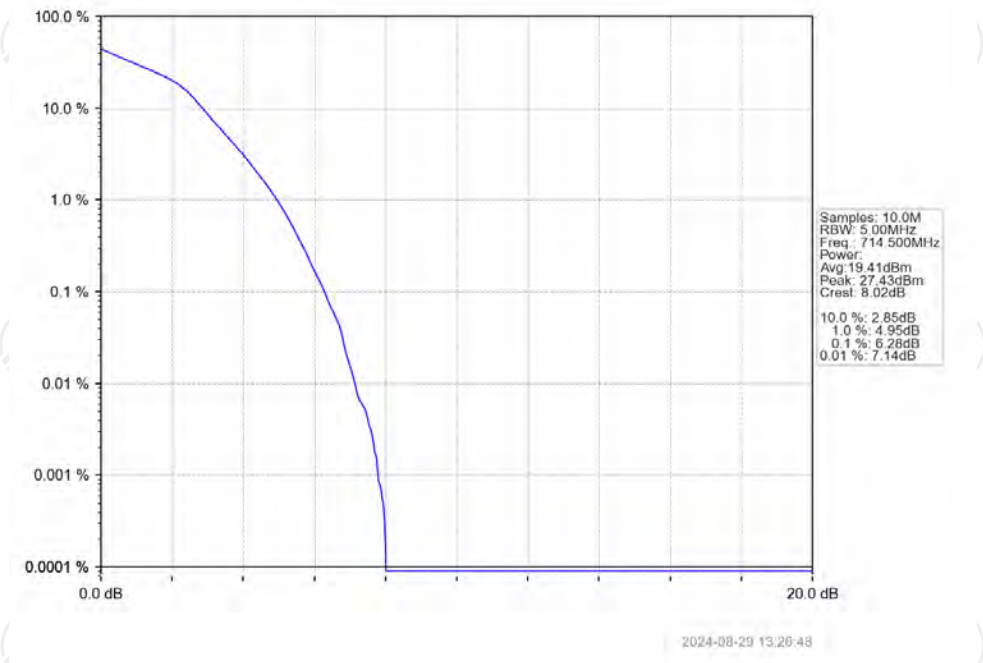
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



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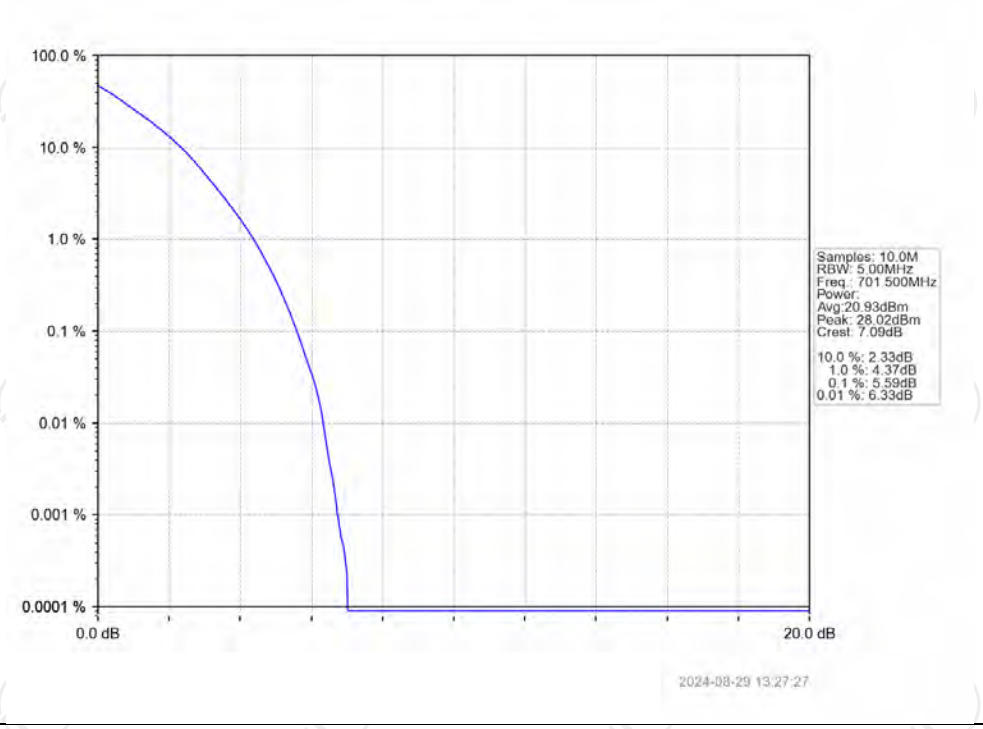
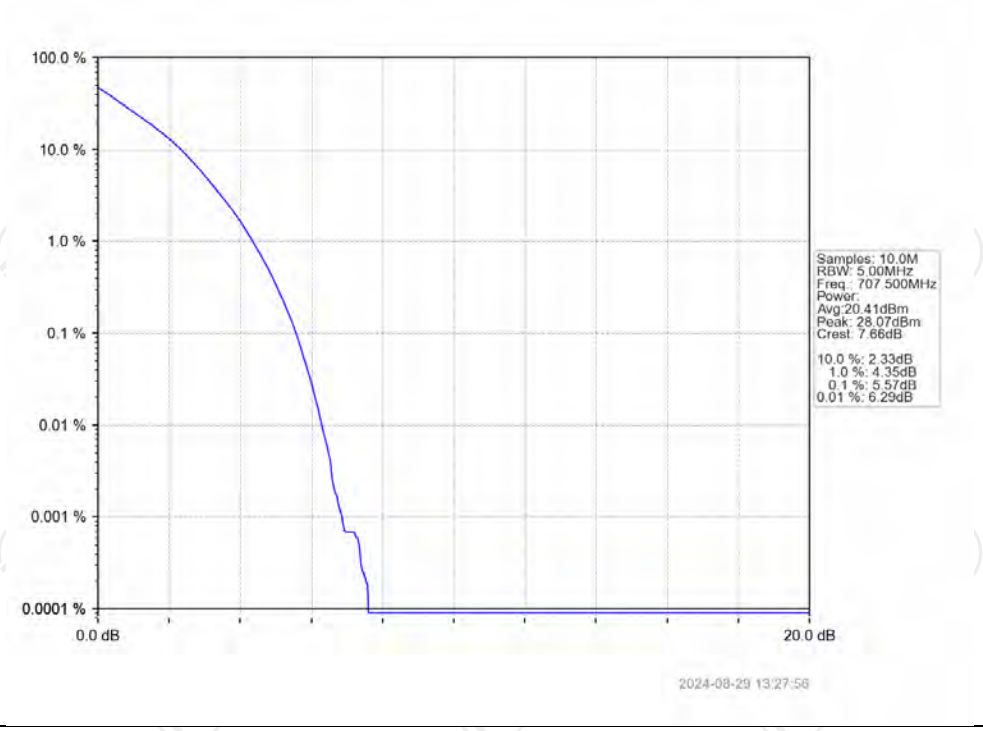
5.2.3 B12_5MHz

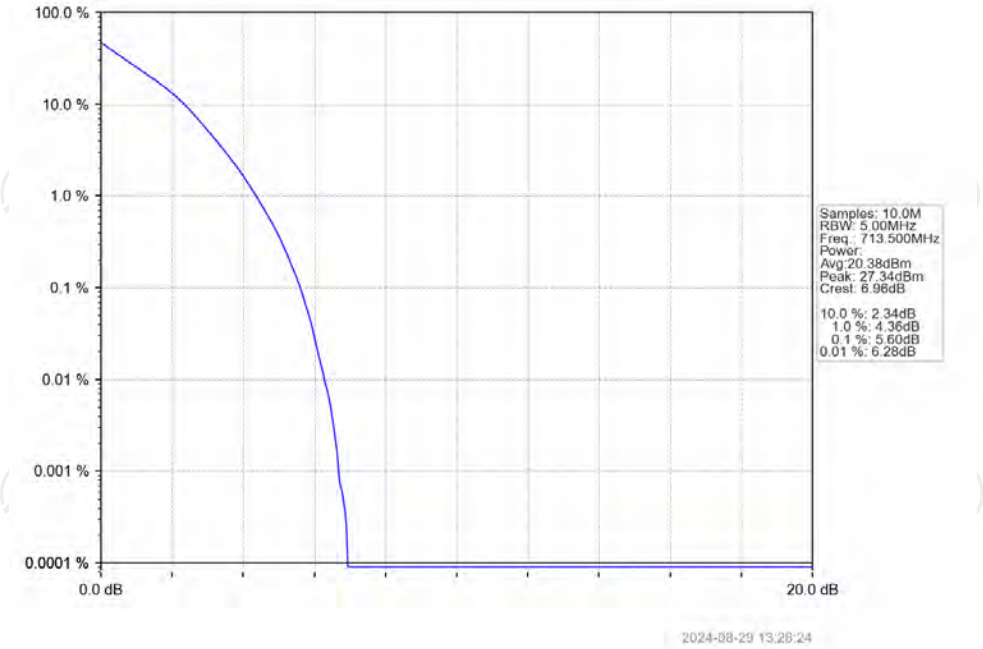
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



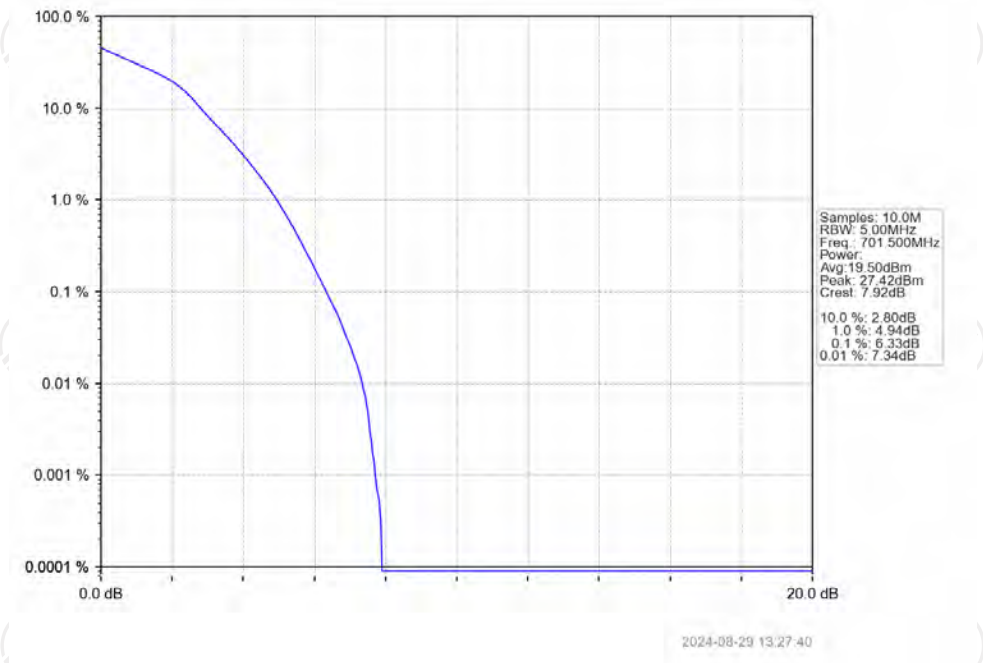
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



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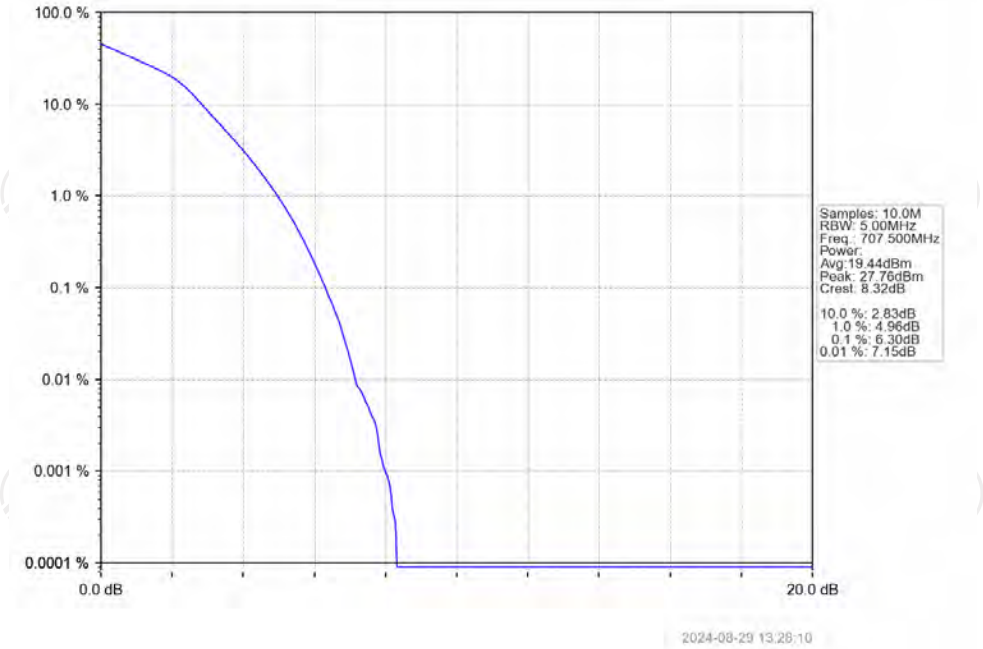
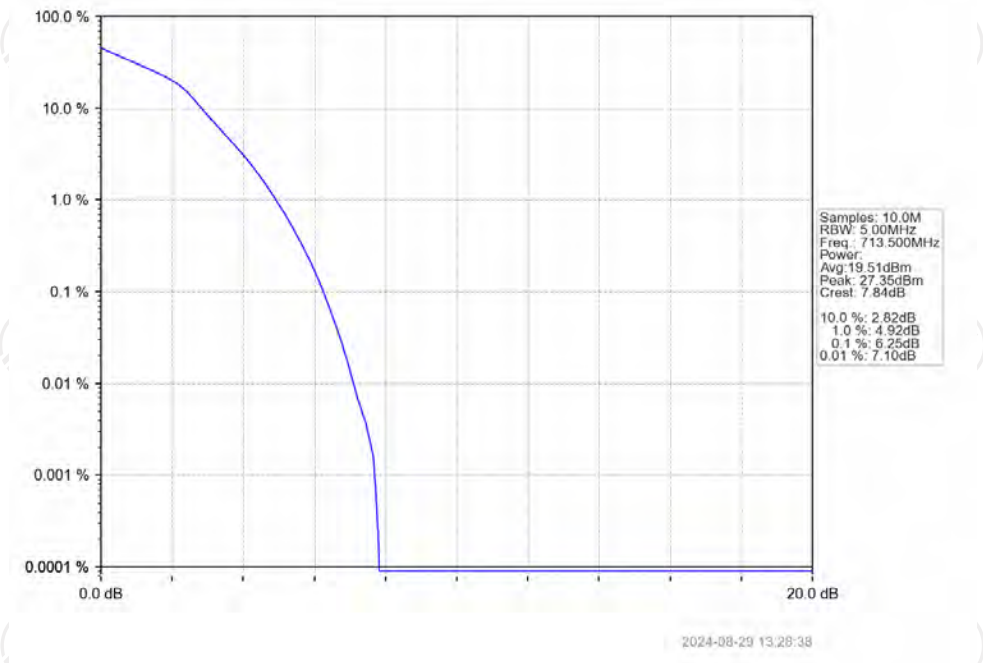
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

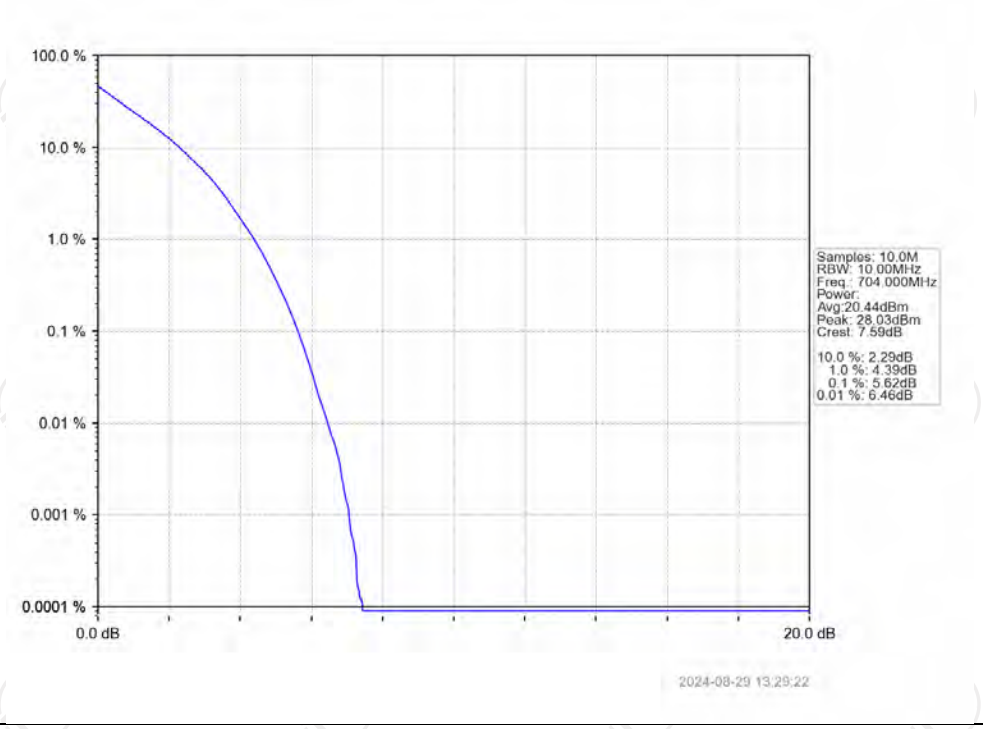


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

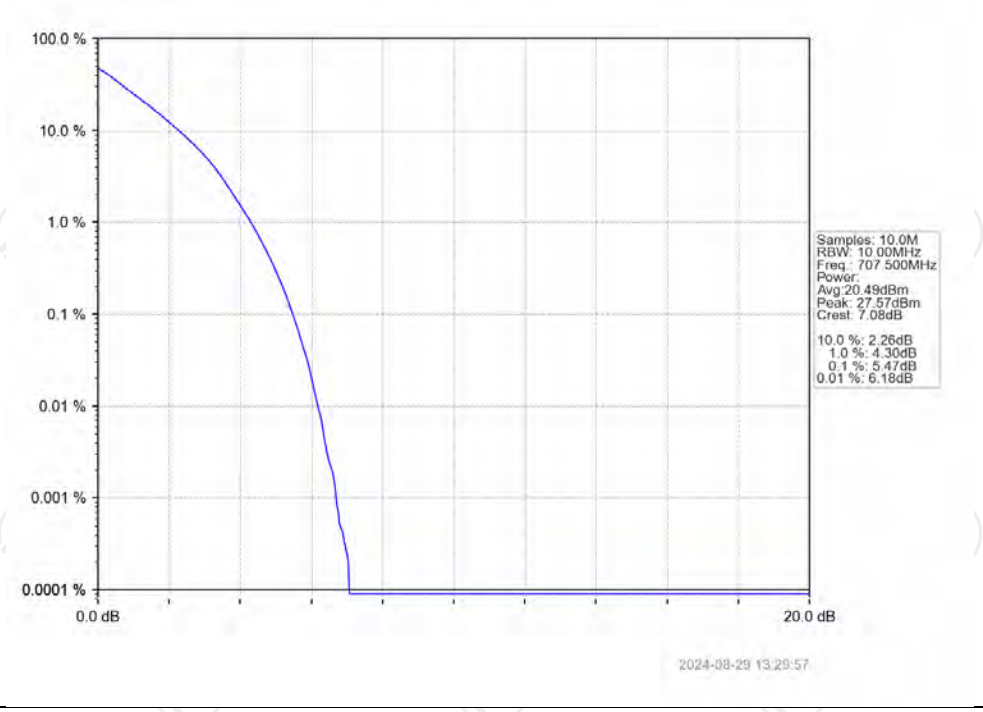


5.2.4 B12_10MHz

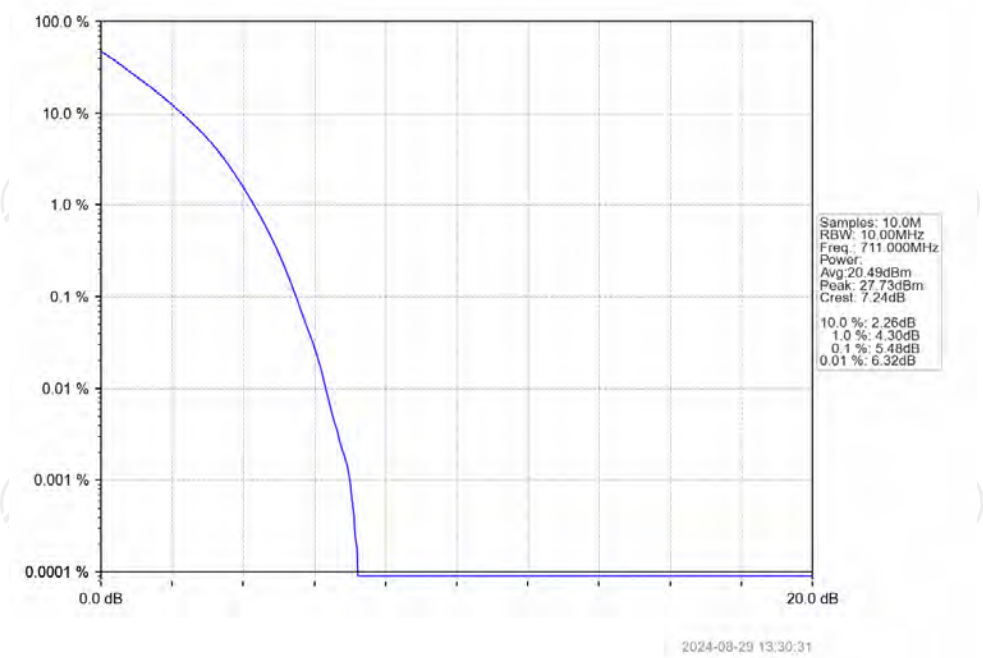
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



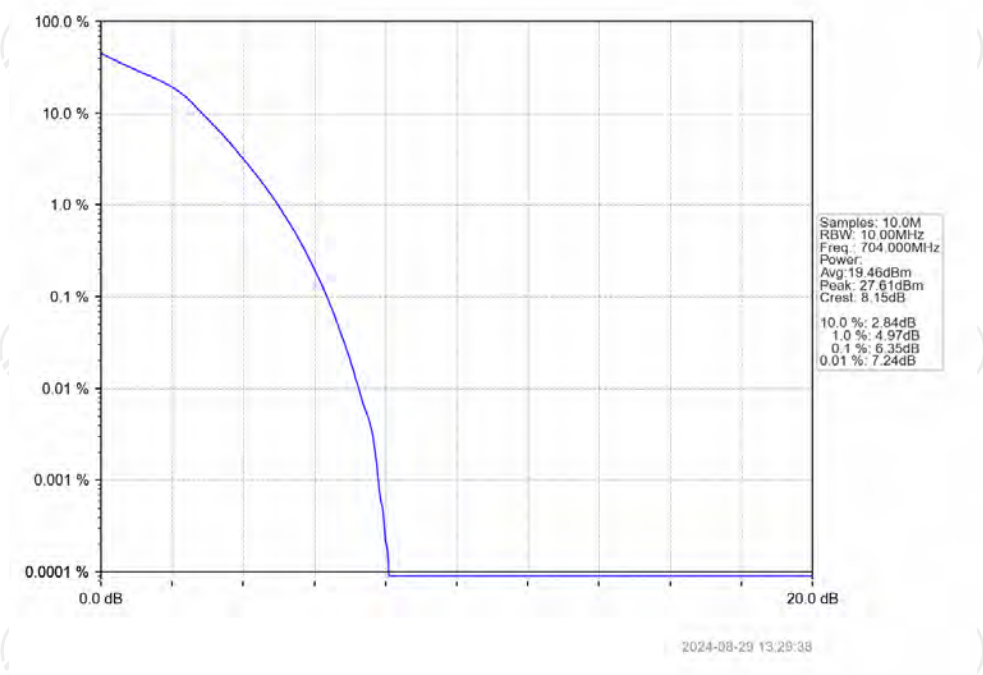
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



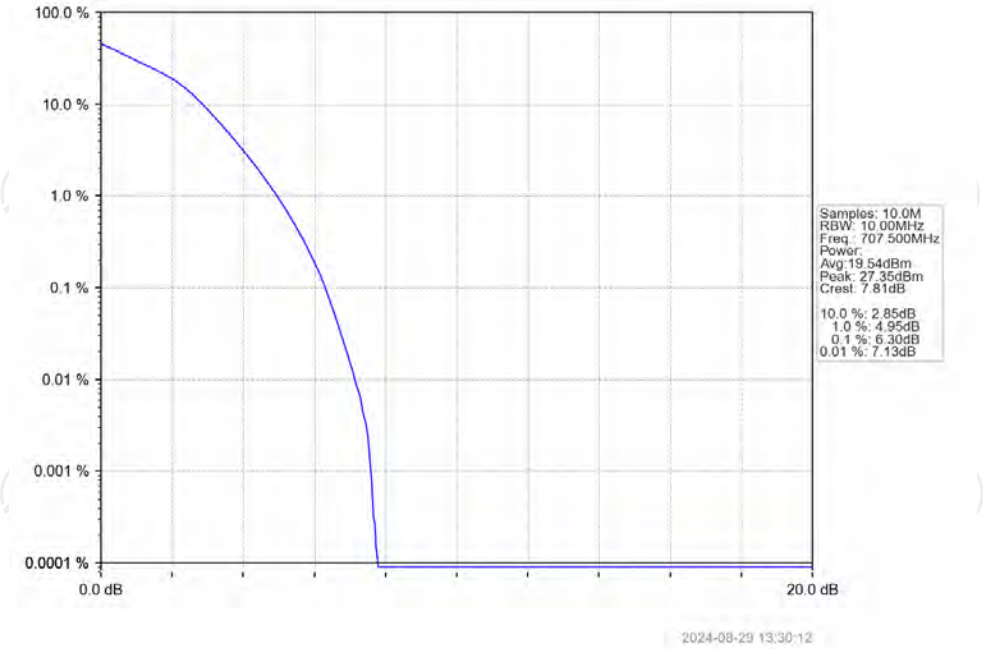
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



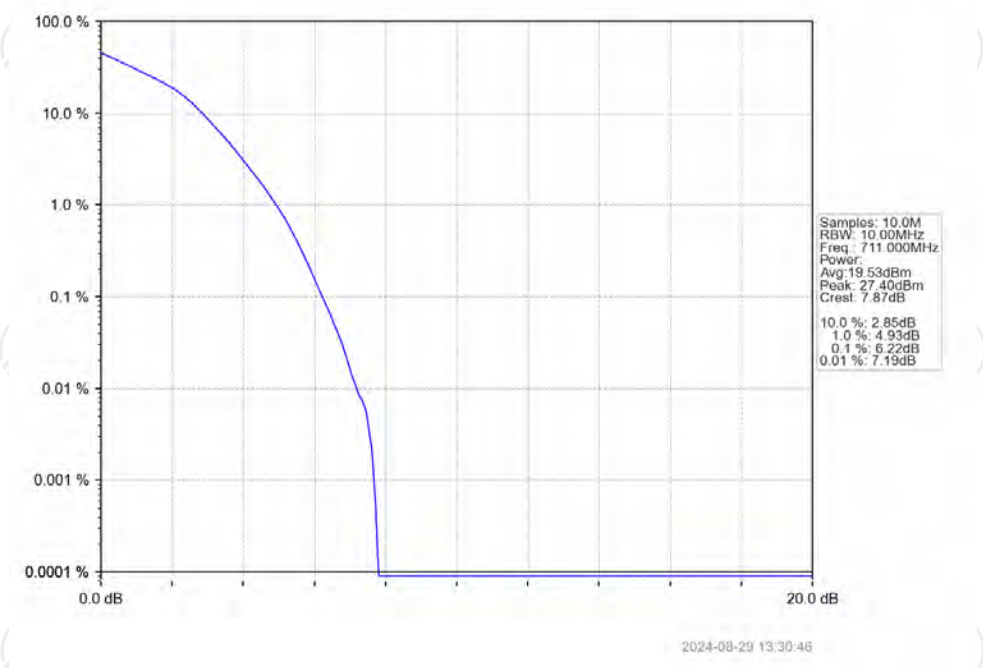
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass

		25	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

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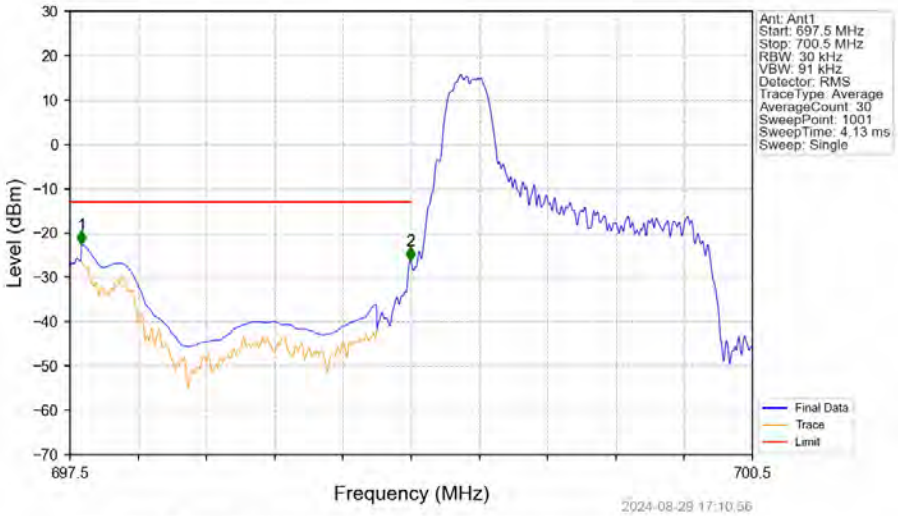
6.2 Test Graph

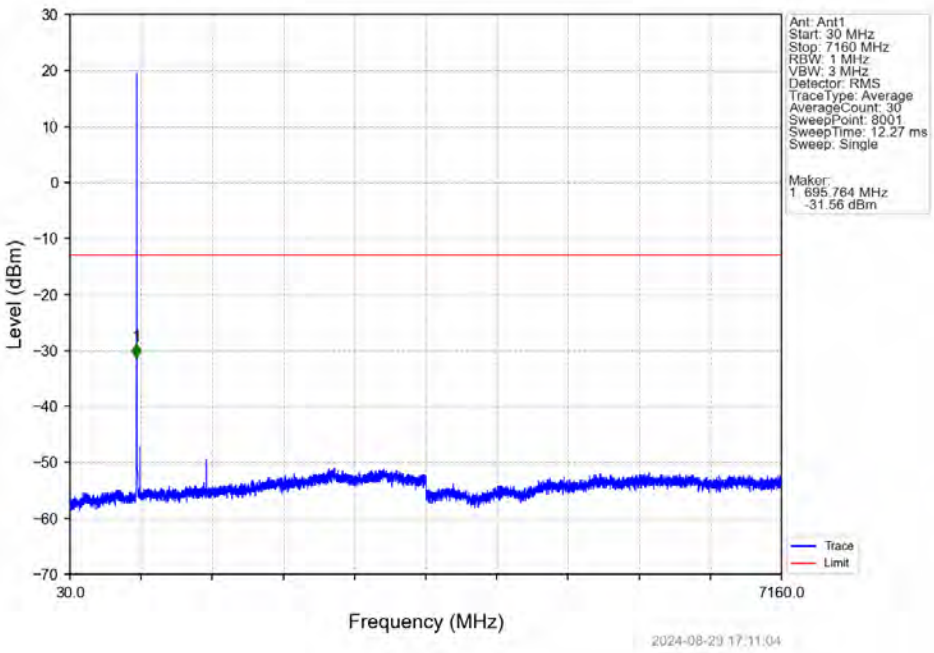
6.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

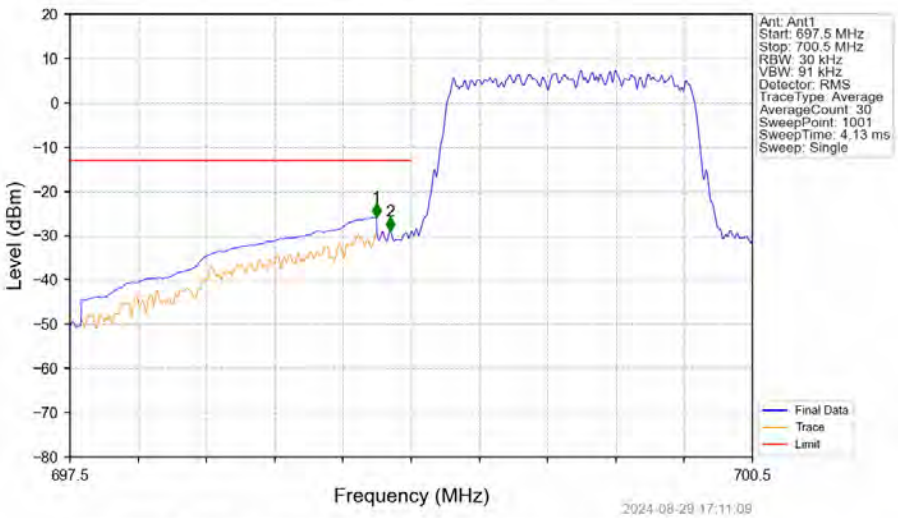


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	697.551	-22.51	-13	Pass
698.9	699	0.03	/	2	698.997	-26.24	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

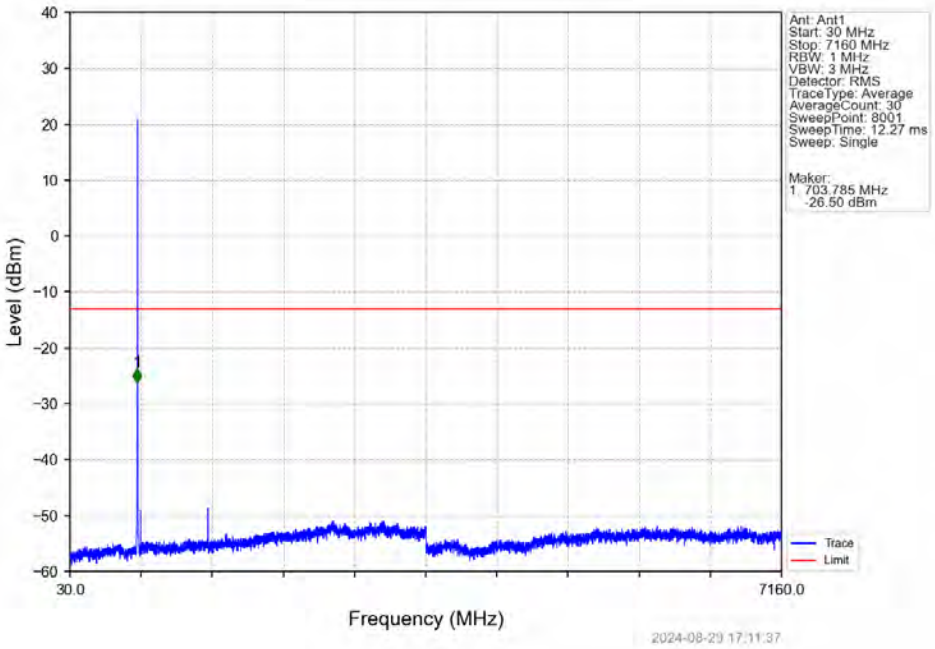


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

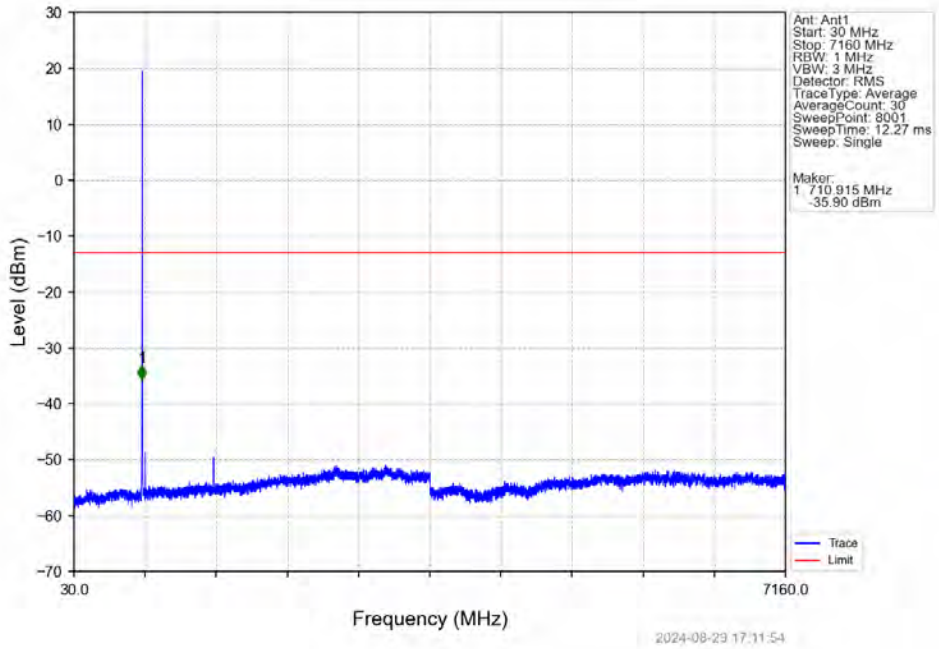


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-25.90	-13	Pass
698.9	699	0.03	/	2	698.907	-28.89	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

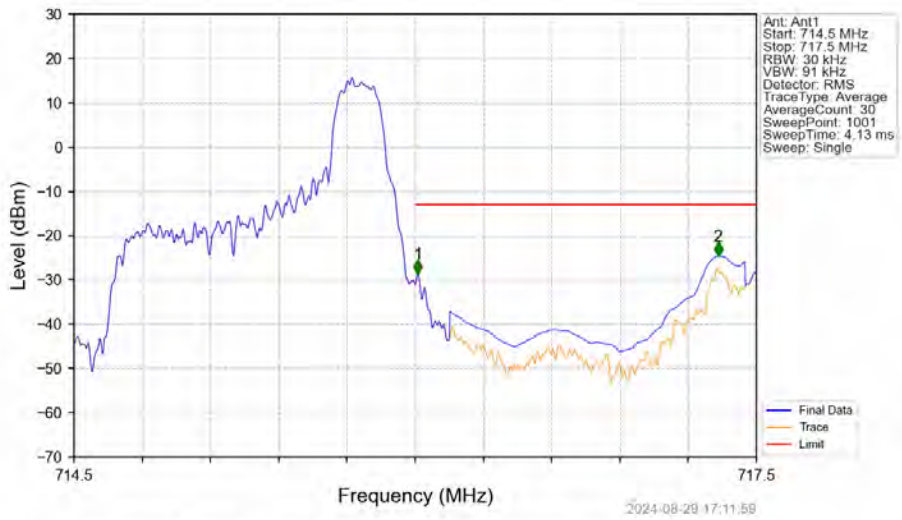
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

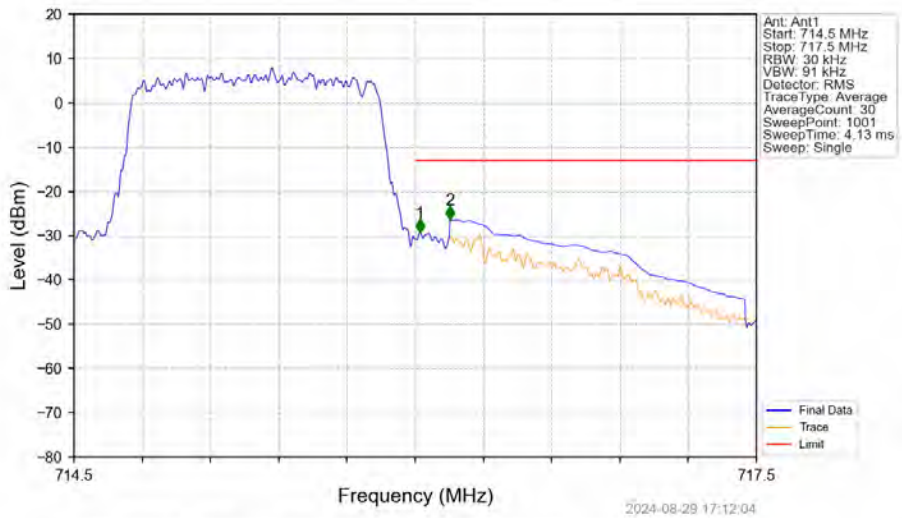


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



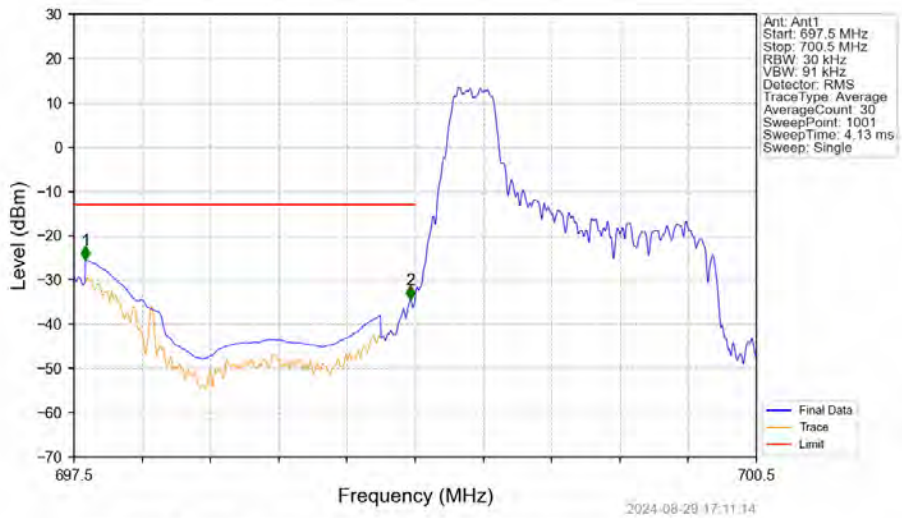
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-28.64	-13	Pass
716.1	717.5	0.1	CHP	2	717.332	-24.62	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



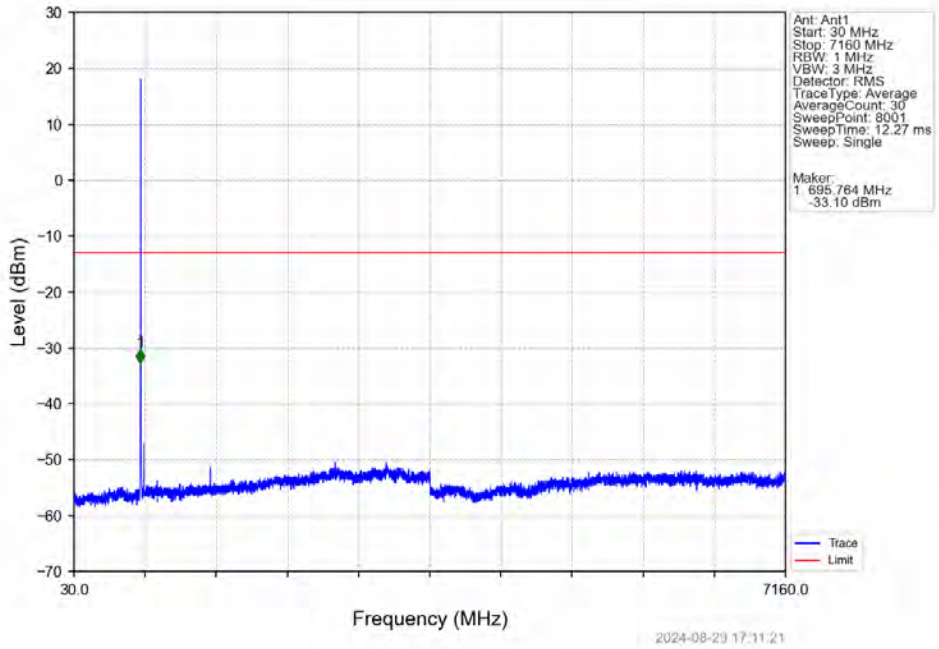
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.021	-29.31	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-26.42	-13	Pass

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

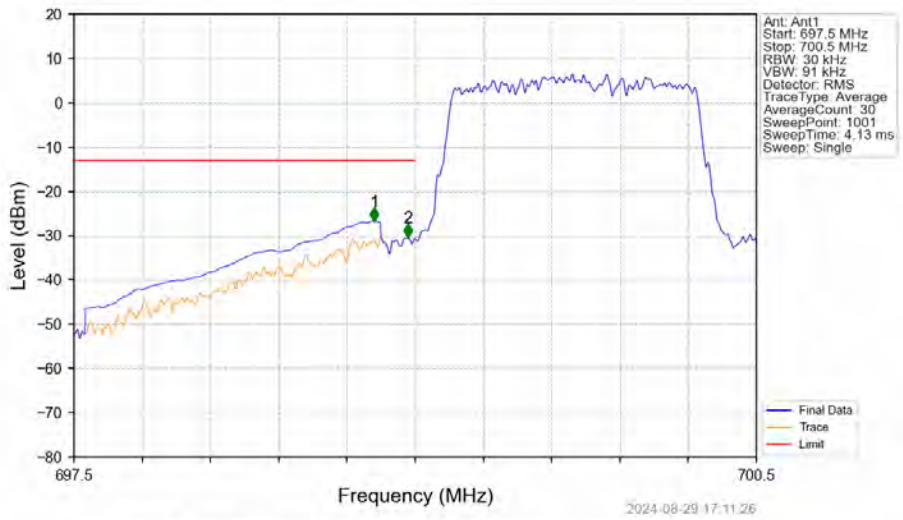


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	697.551	-25.56	-13	Pass
698.9	699	0.03	/	2	698.979	-34.37	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

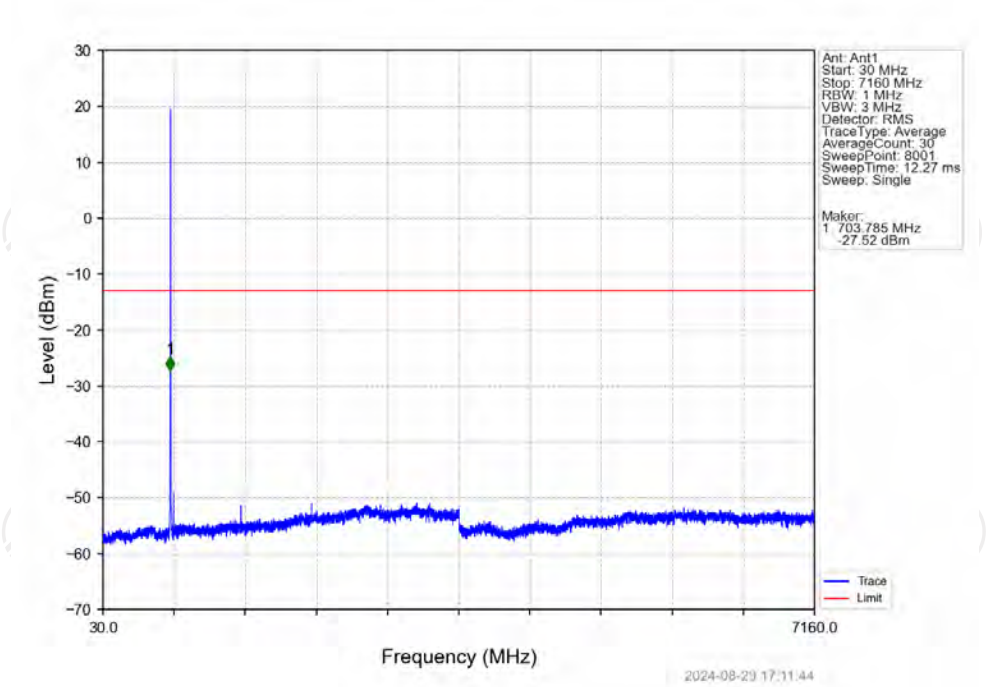


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

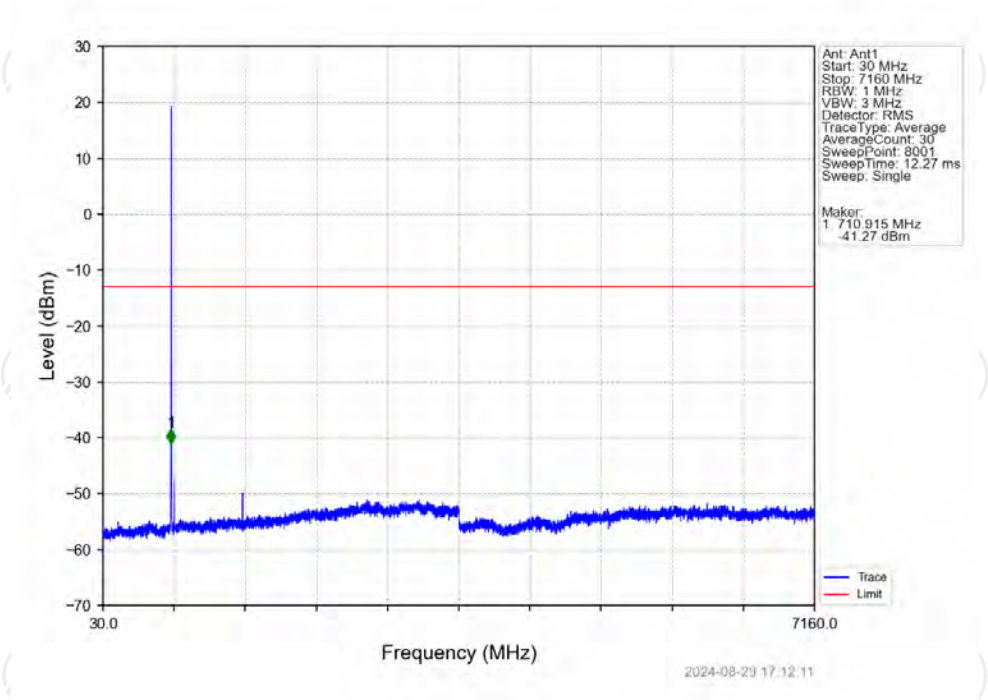


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.820	-26.70	-13	Pass
698.9	699	0.03	/	2	698.967	-30.46	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

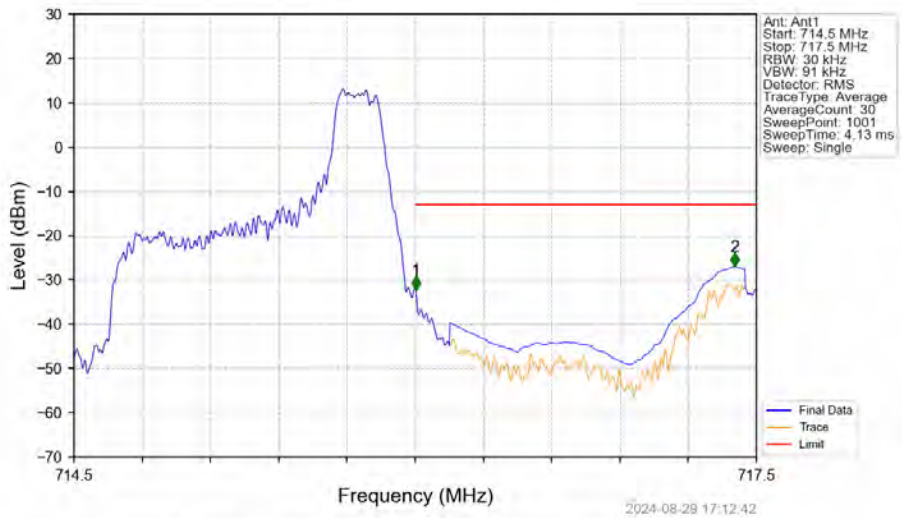
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

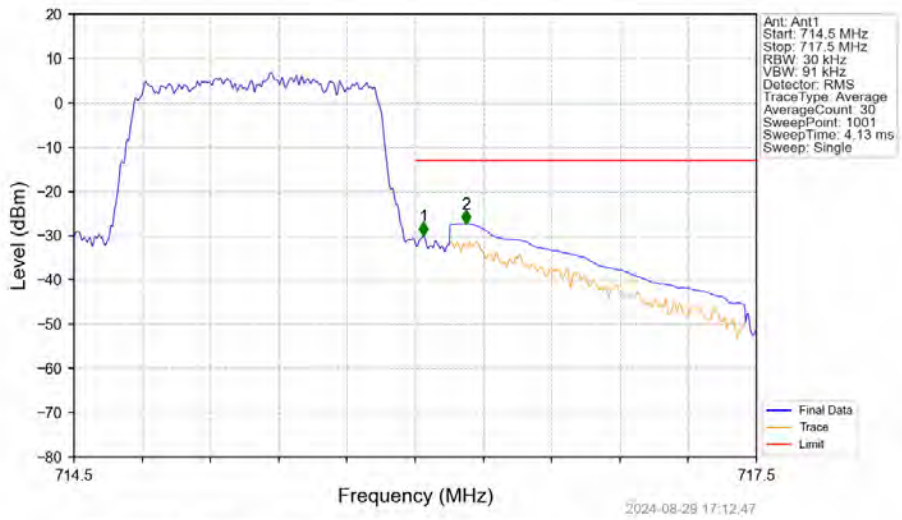


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.003	-32.20	-13	Pass
716.1	717.5	0.1	CHP	2	717.404	-27.00	-13	Pass

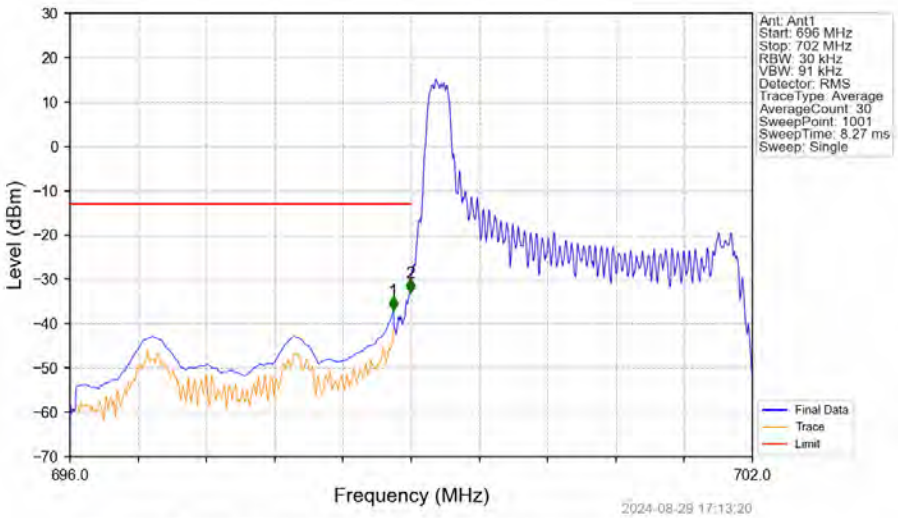
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.036	-30.10	-13	Pass
716.1	717.5	0.1	CHP	2	716.225	-27.27	-13	Pass

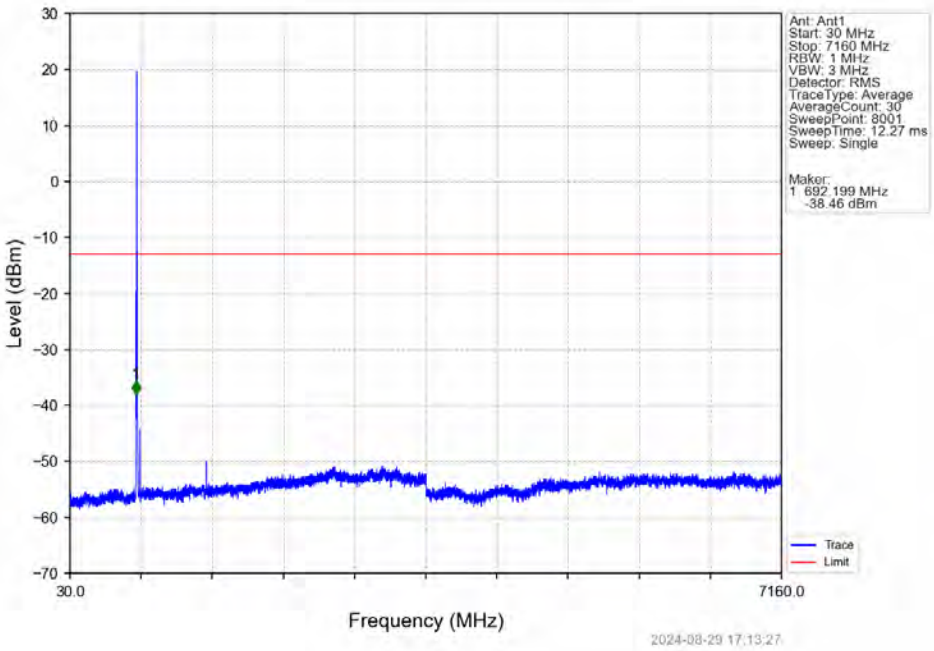
6.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

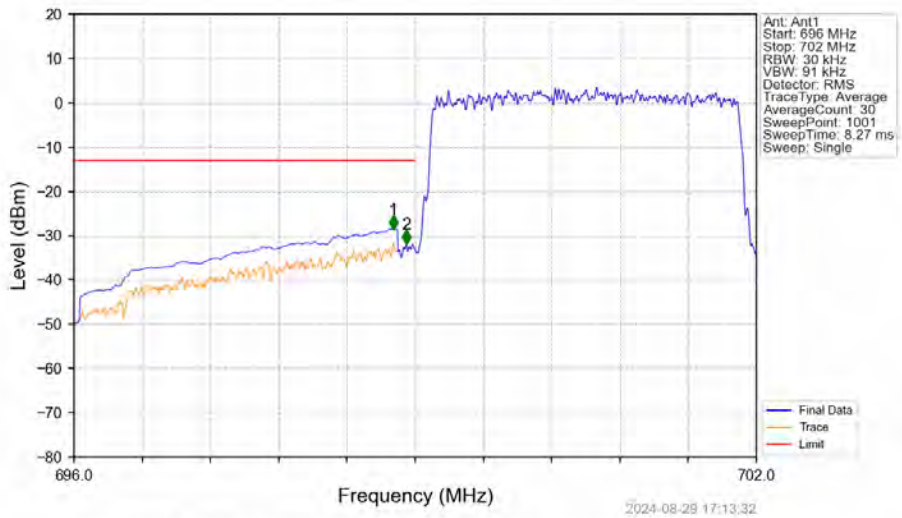


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-37.02	-13	Pass
698.9	699	0.03	/	2	698.994	-33.03	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

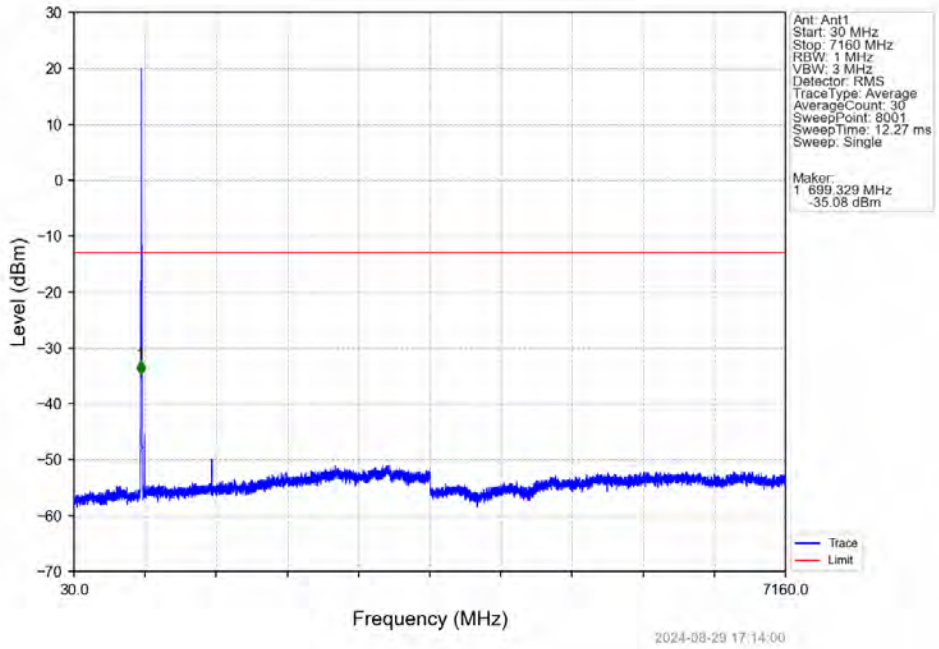


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

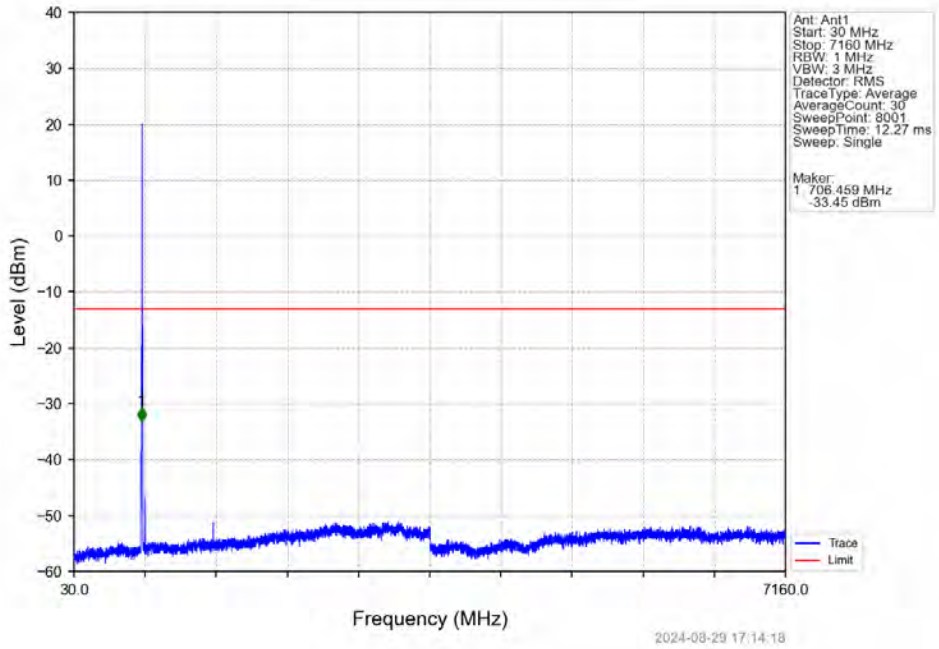


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.808	-28.52	-13	Pass
698.9	699	0.03	/	2	698.922	-31.88	-13	Pass
699	702	0.03	/	/	/	/	/	/

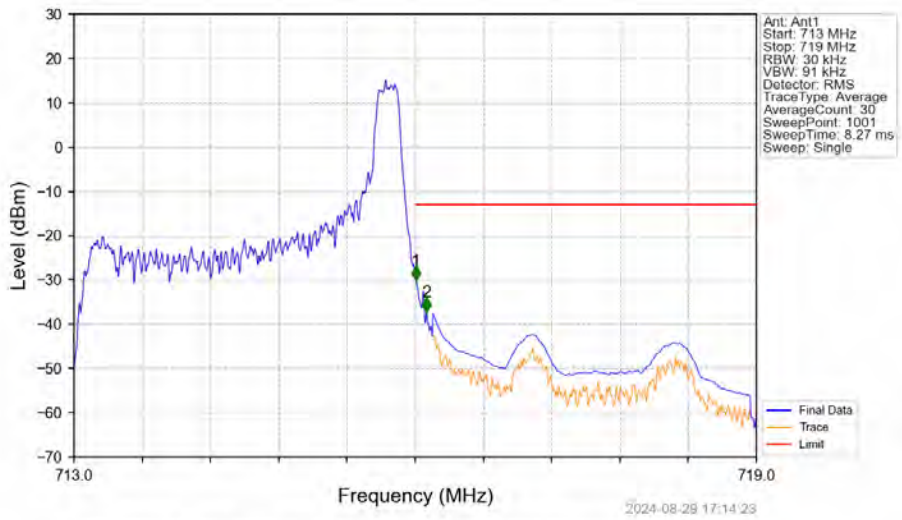
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-29.99	-13	Pass
716.1	719	0.1	CHP	2	716.102	-37.21	-13	Pass

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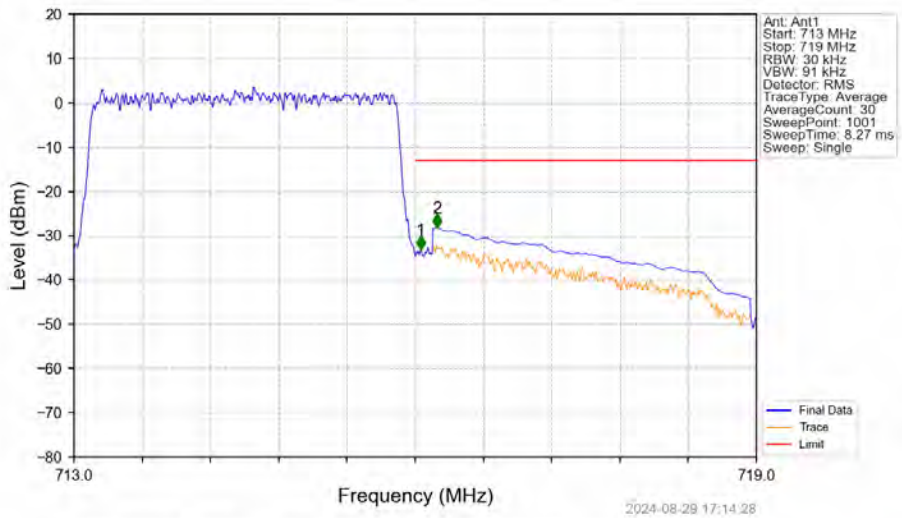
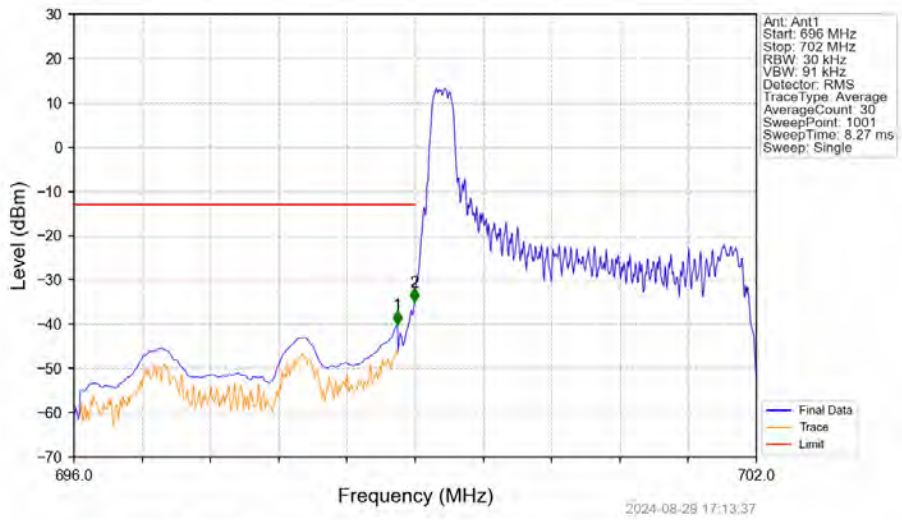
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



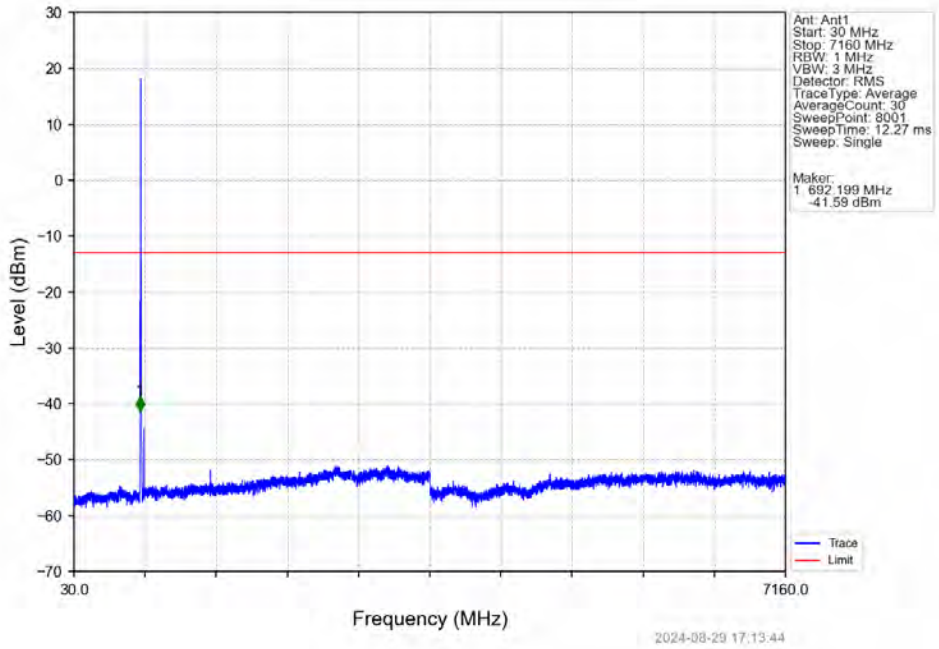
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.048	-33.17	-13	Pass
716.1	719	0.1	CHP	2	716.192	-28.16	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

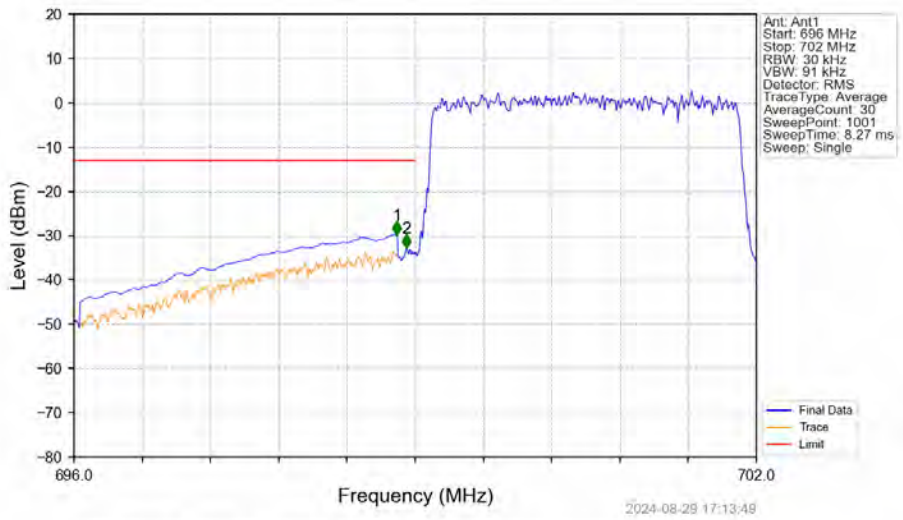


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-40.11	-13	Pass
698.9	699	0.03	/	2	698.994	-34.91	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.838	-29.82	-13	Pass
698.9	699	0.03	/	2	698.922	-32.70	-13	Pass
699	702	0.03	/	/	/	/	/	/

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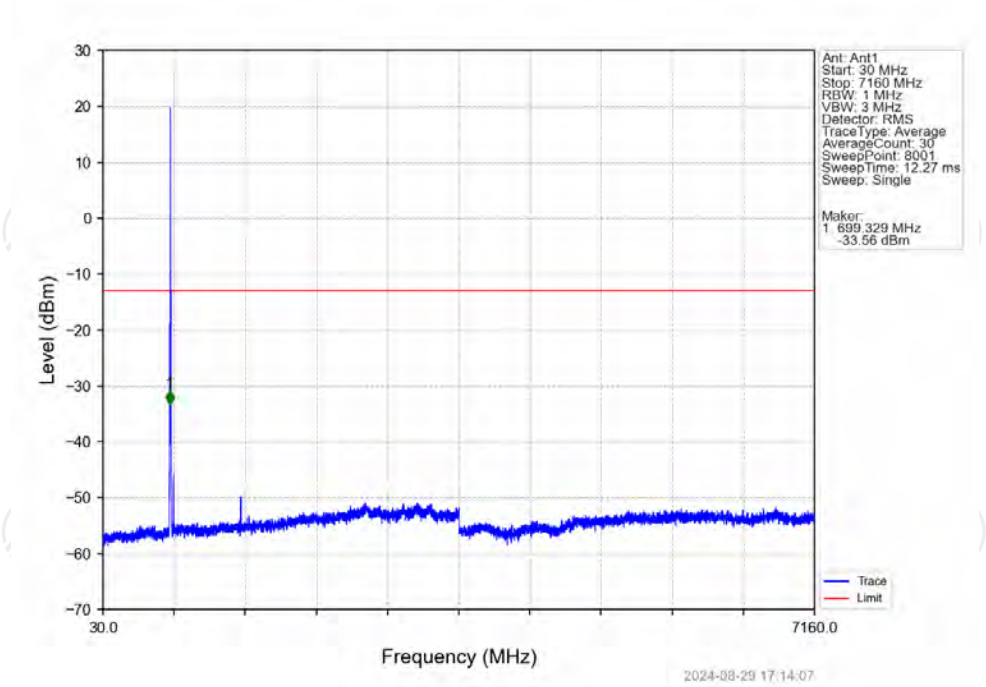
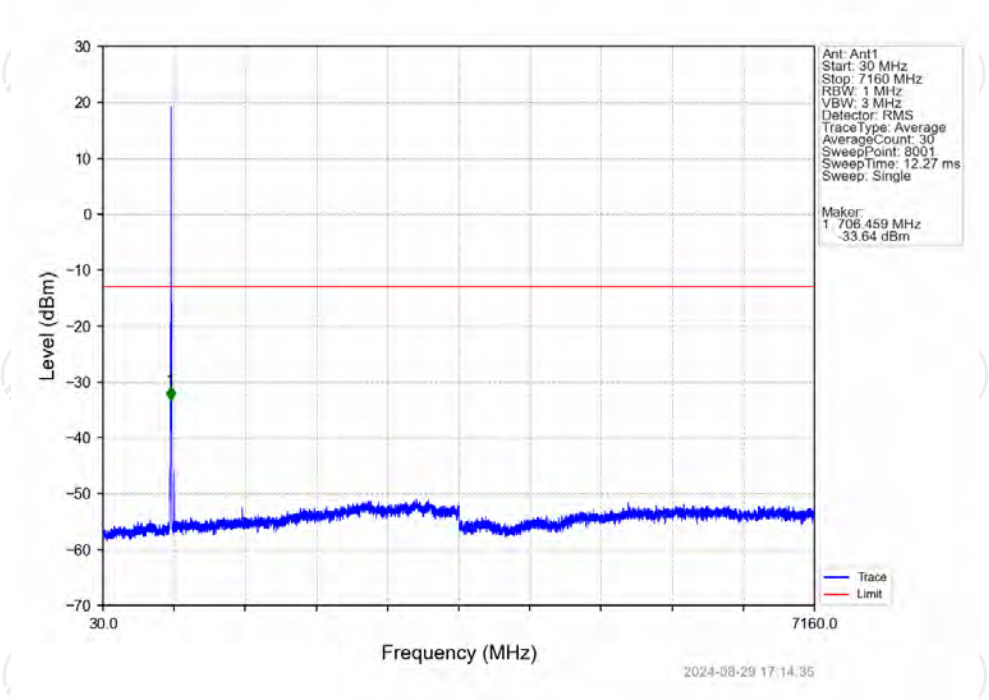
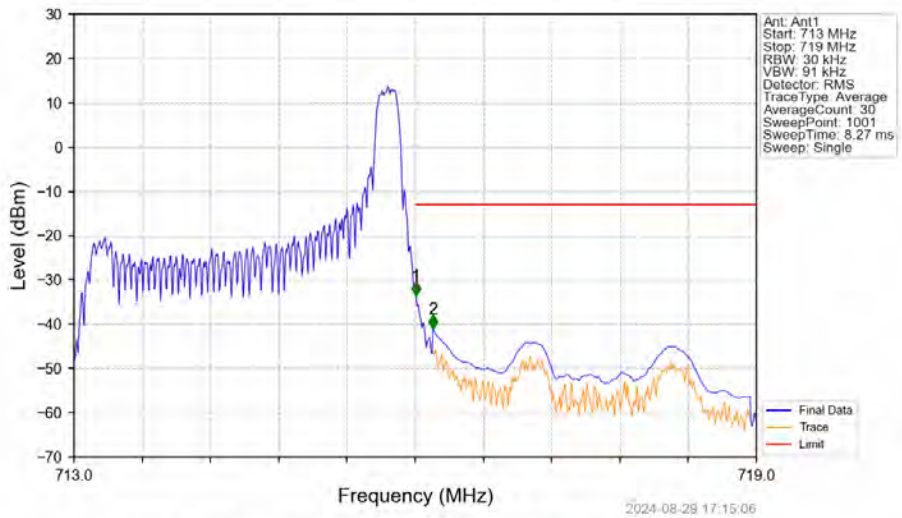
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV

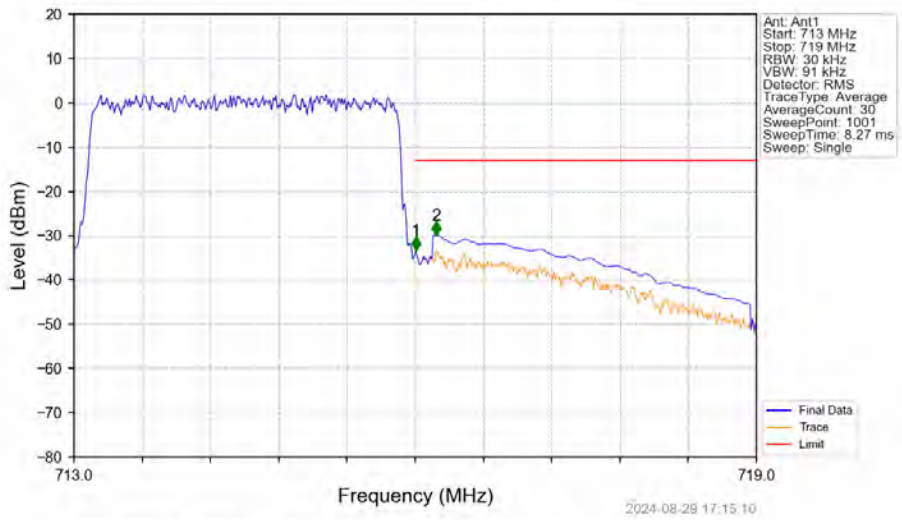


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-33.48	-13	Pass
716.1	719	0.1	CHP	2	716.156	-41.02	-13	Pass

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-33.39	-13	Pass
716.1	719	0.1	CHP	2	716.186	-29.89	-13	Pass

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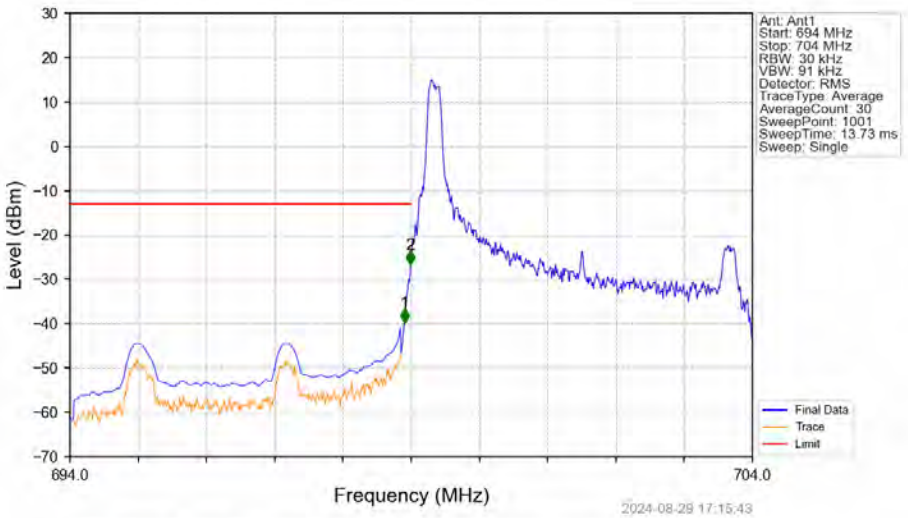
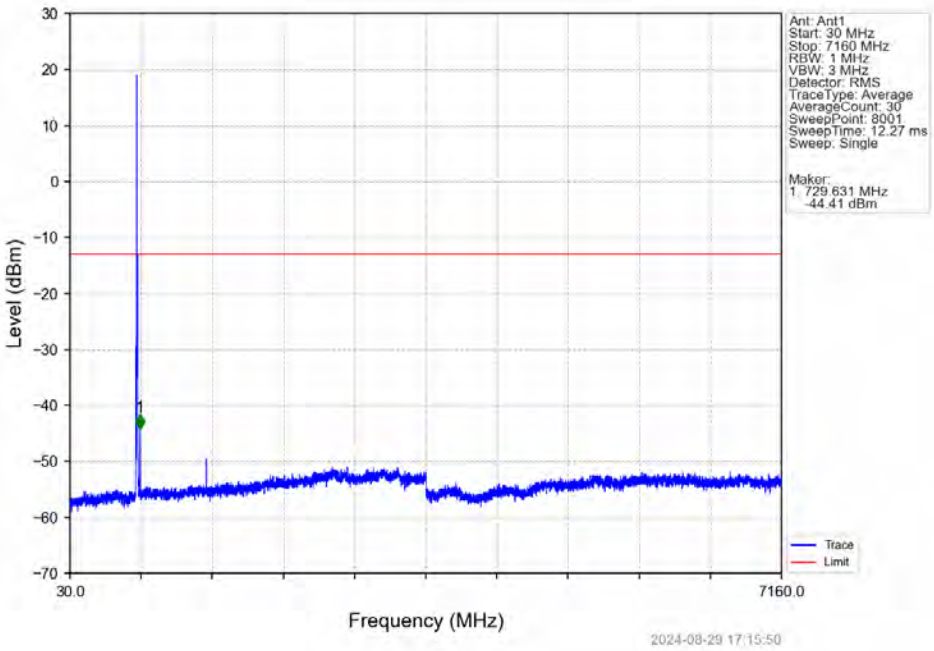
6.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

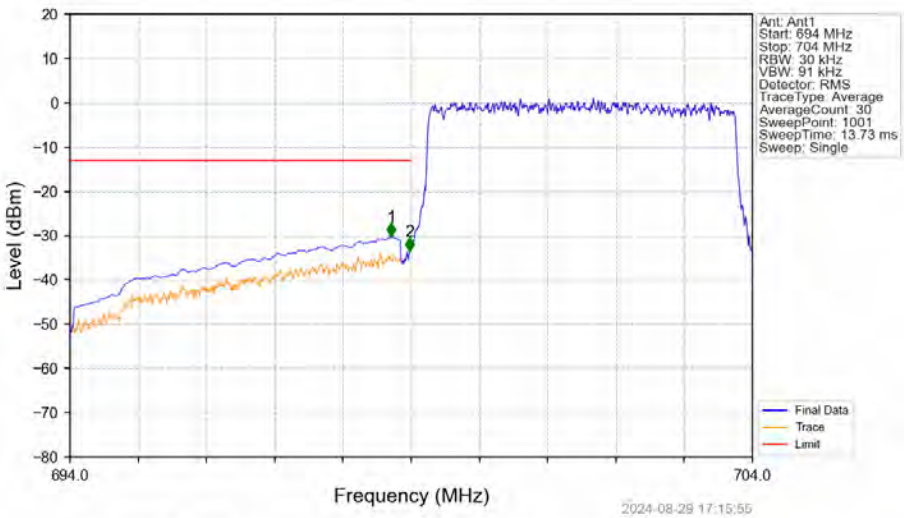


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.900	-39.76	-13	Pass
698.9	699	0.03	/	2	698.990	-26.68	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

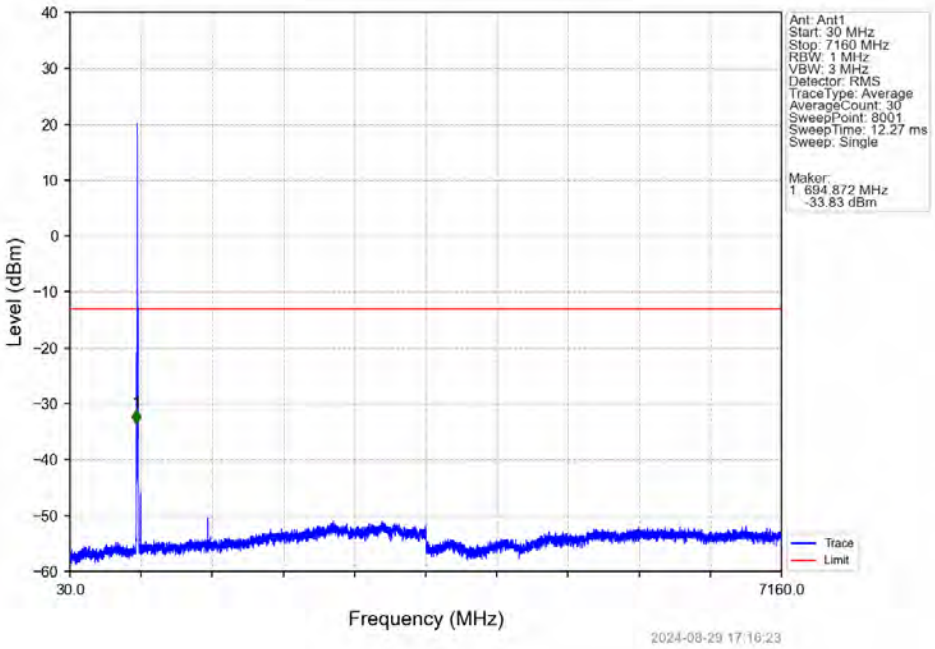


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

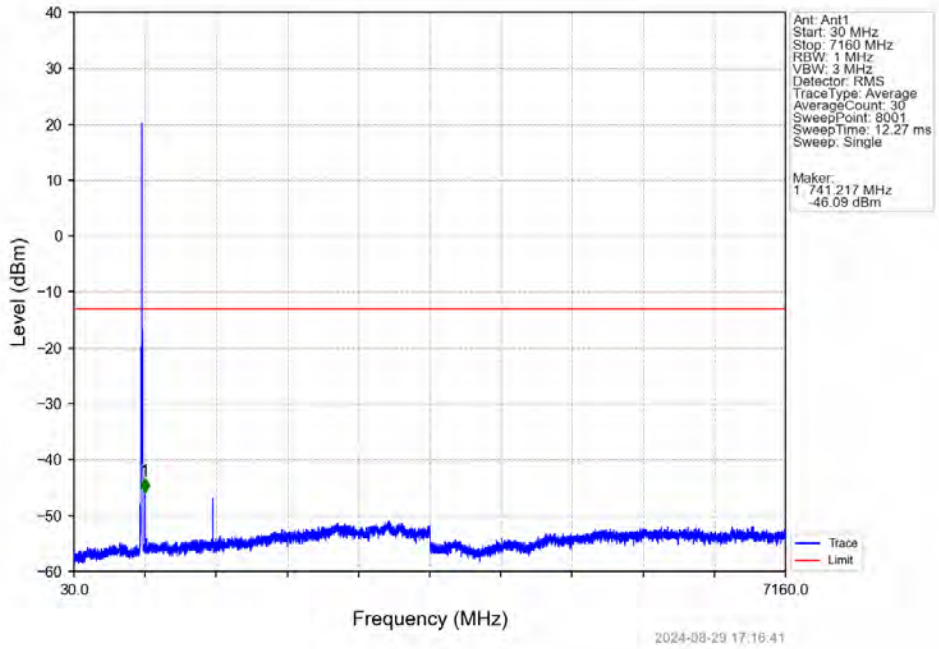


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.710	-30.30	-13	Pass
698.9	699	0.03	/	2	698.980	-33.43	-13	Pass
699	704	0.03	/	/	/	/	/	/

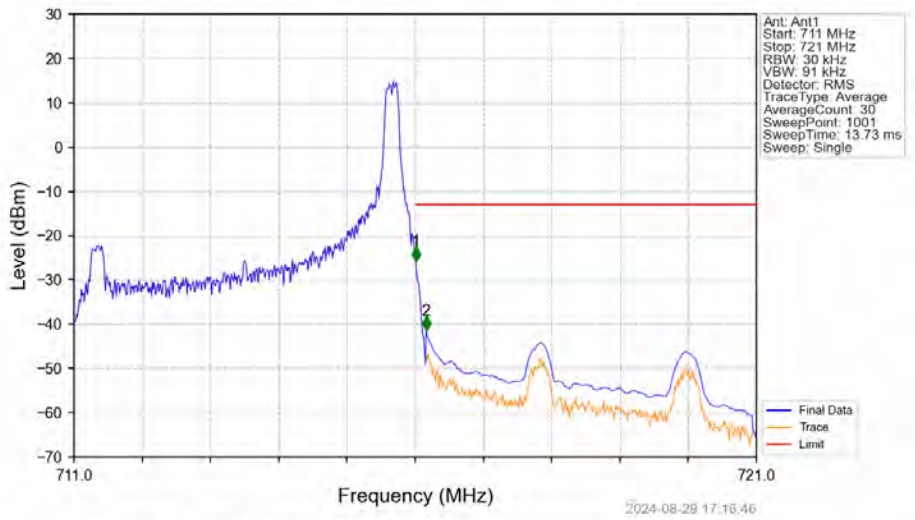
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

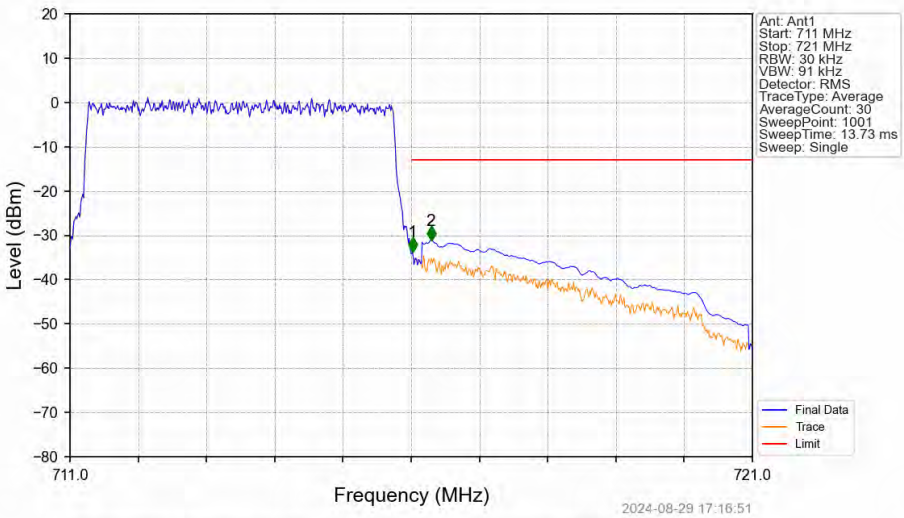


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



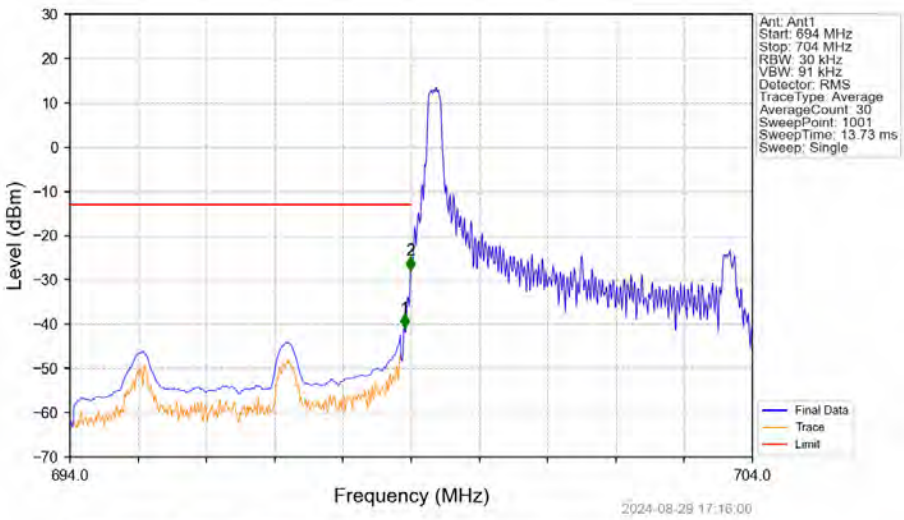
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-25.75	-13	Pass
716.1	721	0.1	CHP	2	716.160	-41.39	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



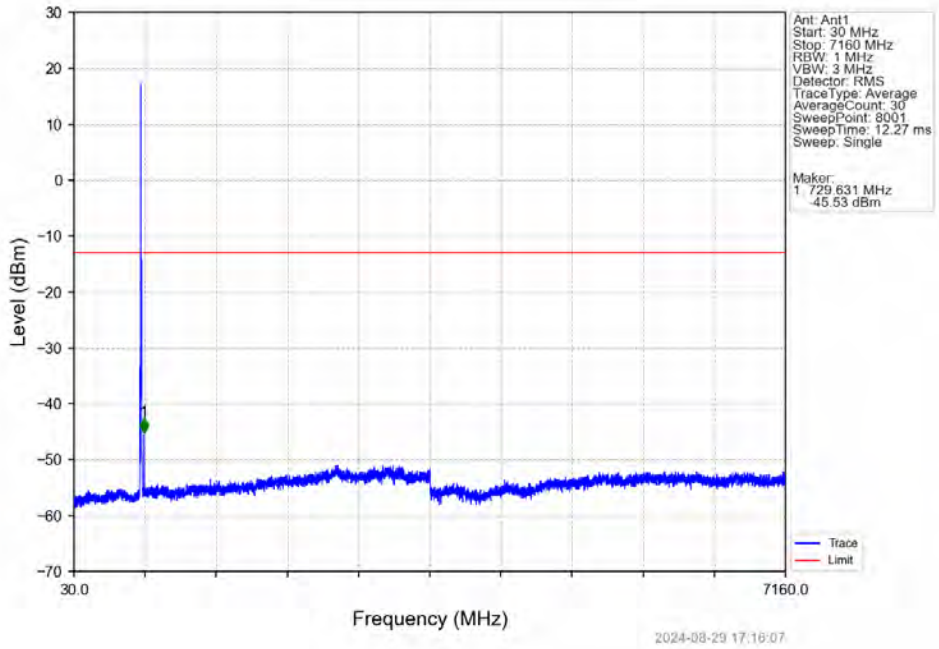
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-33.72	-13	Pass
716.1	721	0.1	CHP	2	716.290	-31.07	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

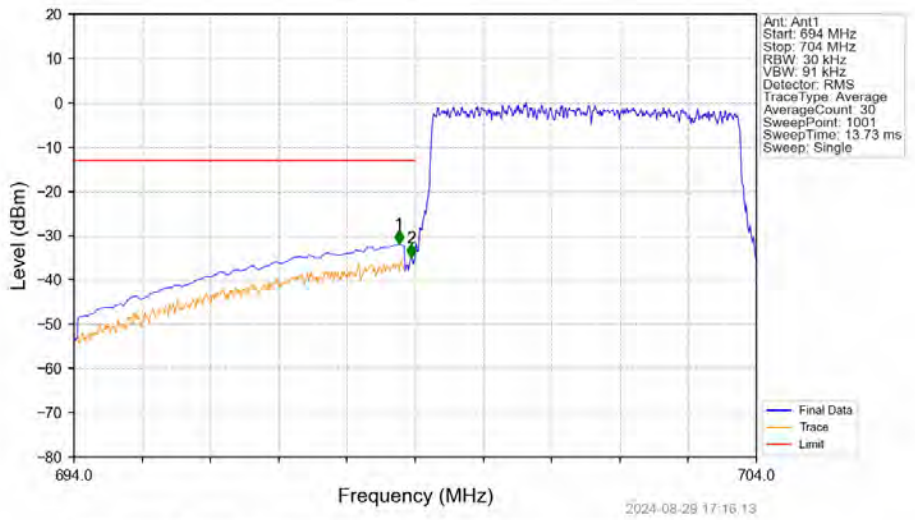


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.900	-40.79	-13	Pass
698.9	699	0.03	/	2	698.990	-27.78	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.760	-31.85	-13	Pass
698.9	699	0.03	/	2	698.940	-34.92	-13	Pass
699	704	0.03	/	/	/	/	/	/

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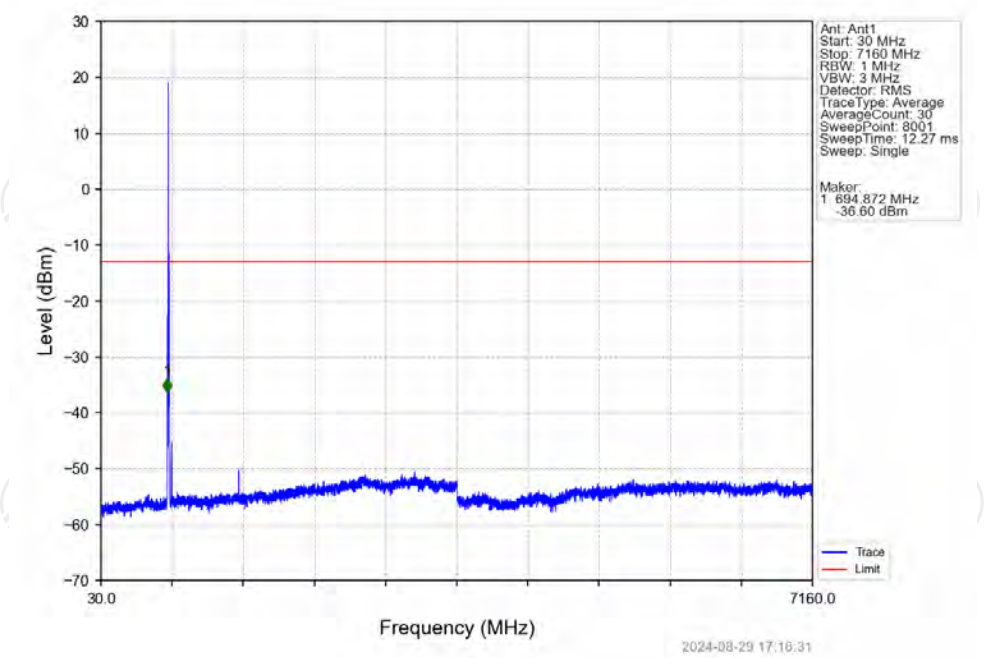
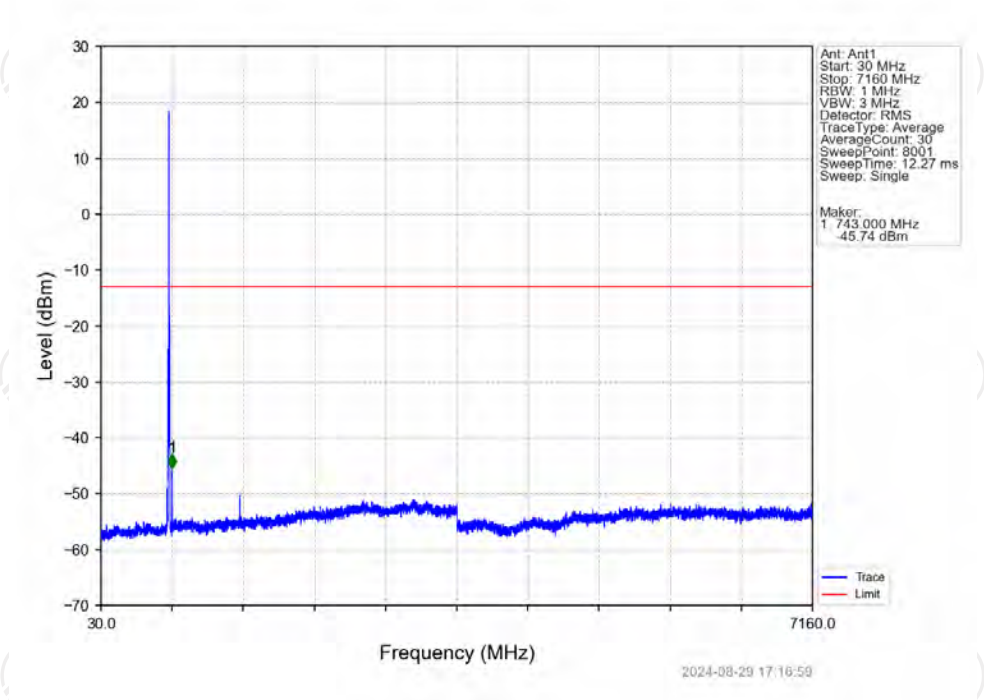
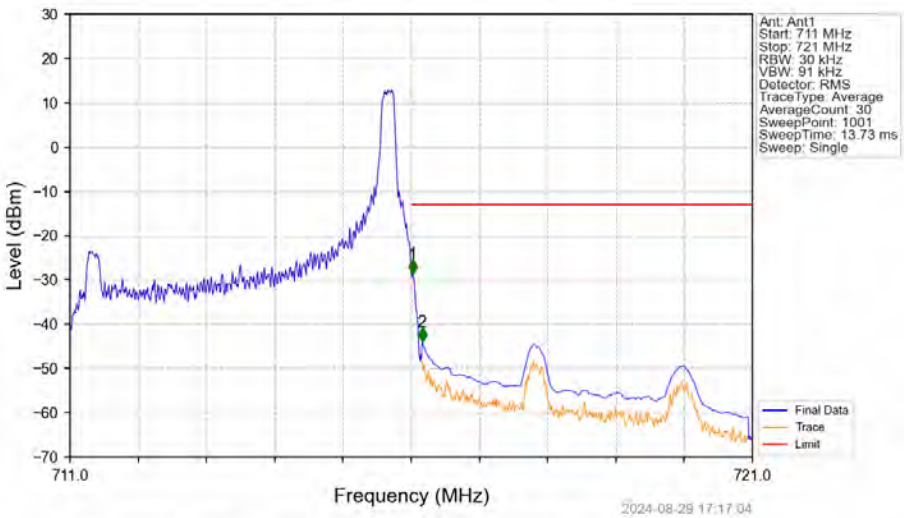
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

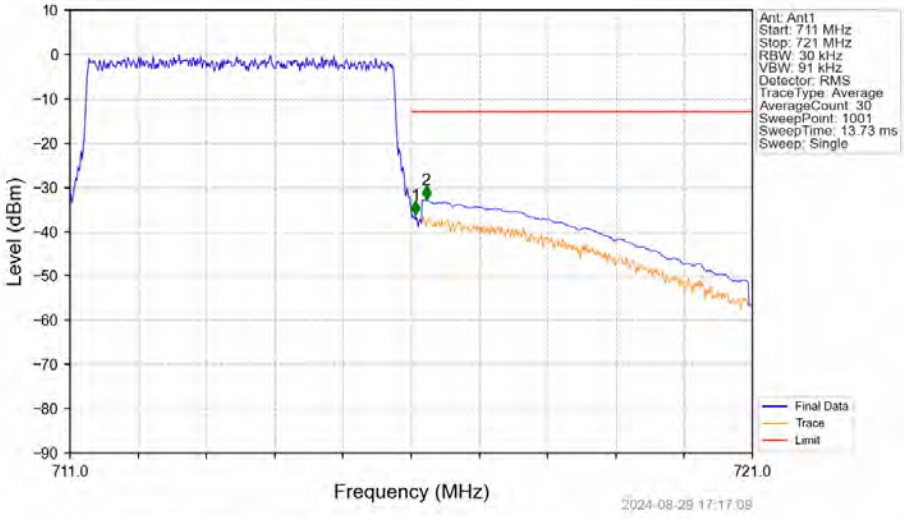


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-28.61	-13	Pass
716.1	721	0.1	CHP	2	716.160	-43.82	-13	Pass

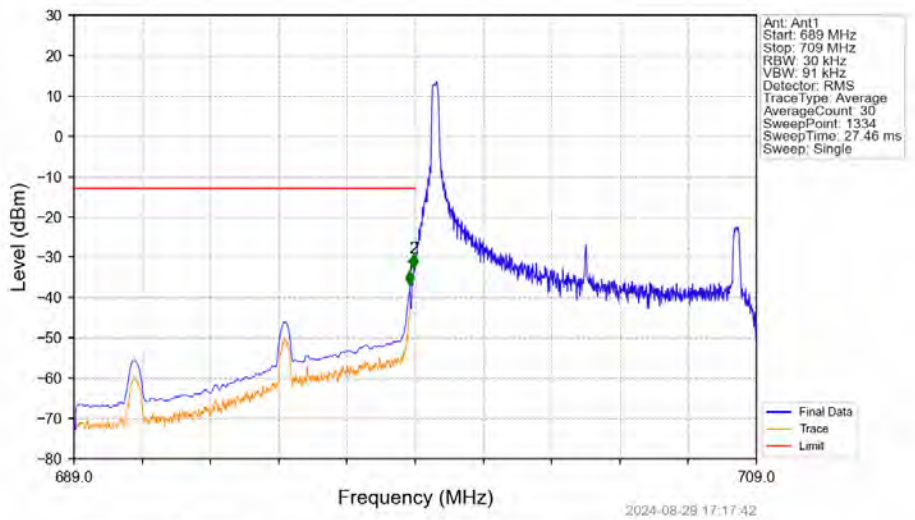
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.060	-36.21	-13	Pass
716.1	721	0.1	CHP	2	716.220	-32.82	-13	Pass

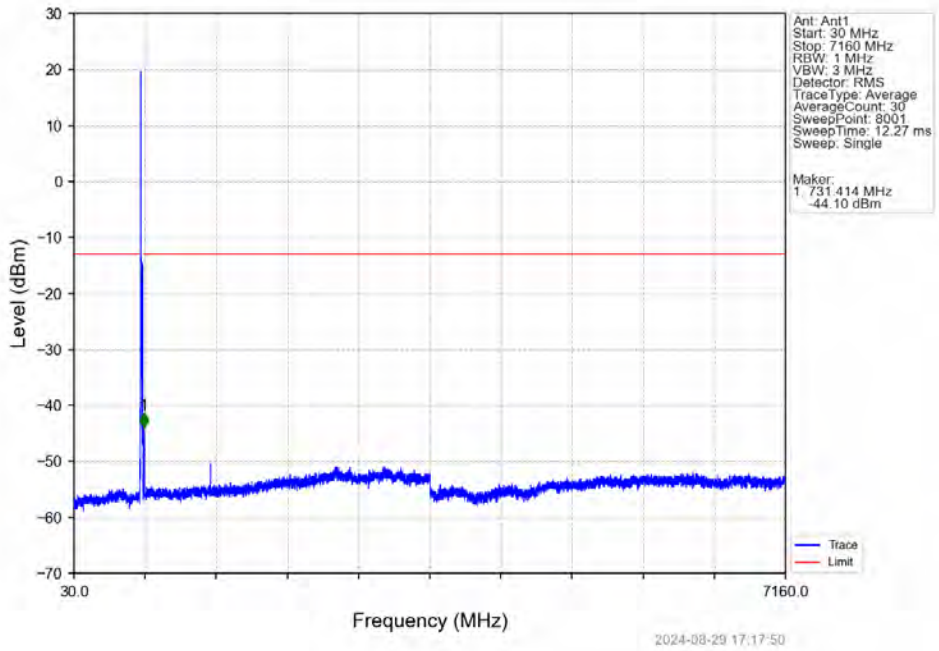
6.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

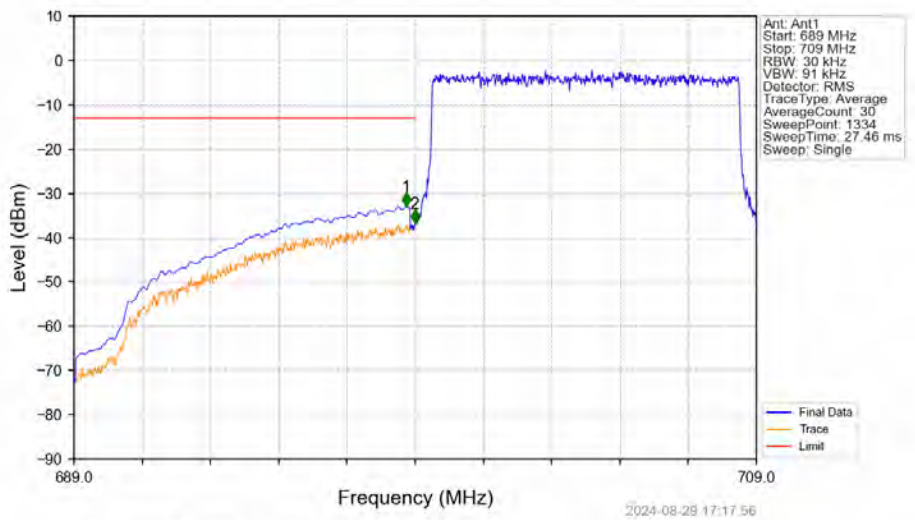


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-36.87	-13	Pass
698.9	699	0.03	/	2	698.962	-32.70	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

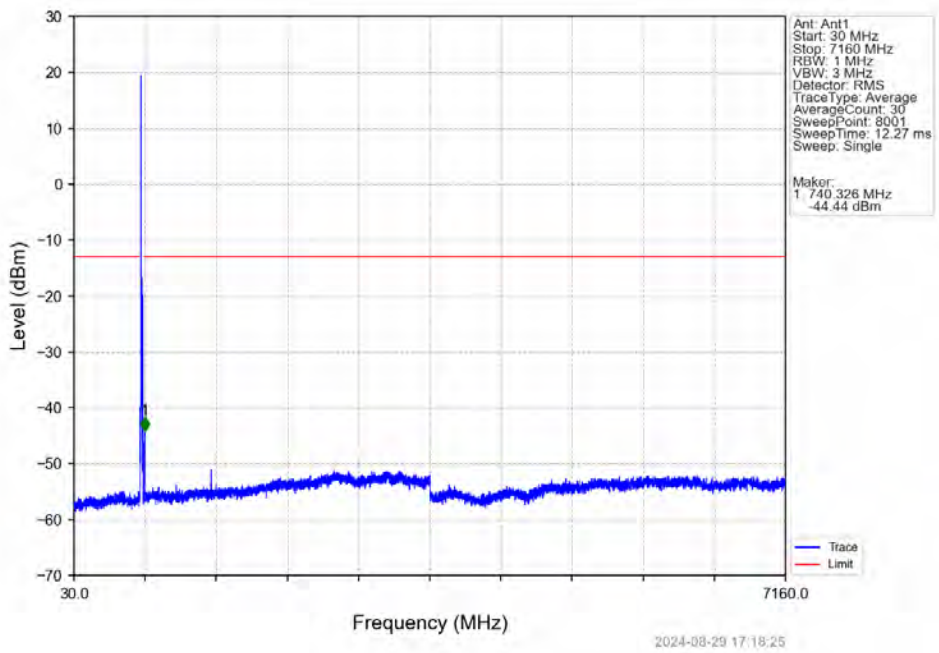


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

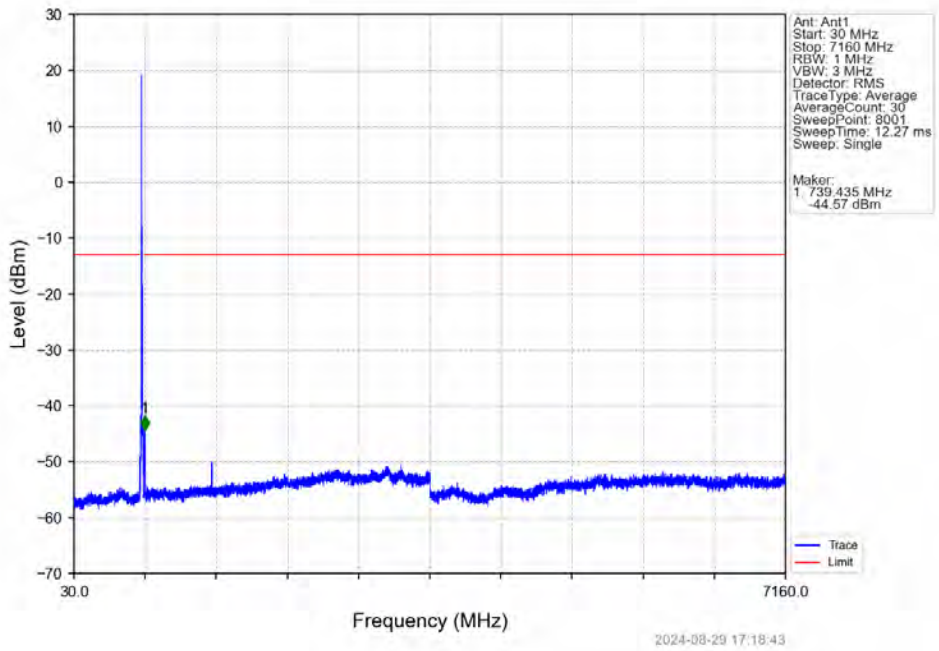


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.737	-32.95	-13	Pass
698.9	699	0.03	/	2	698.992	-36.83	-13	Pass
699	709	0.03	/	/	/	/	/	/

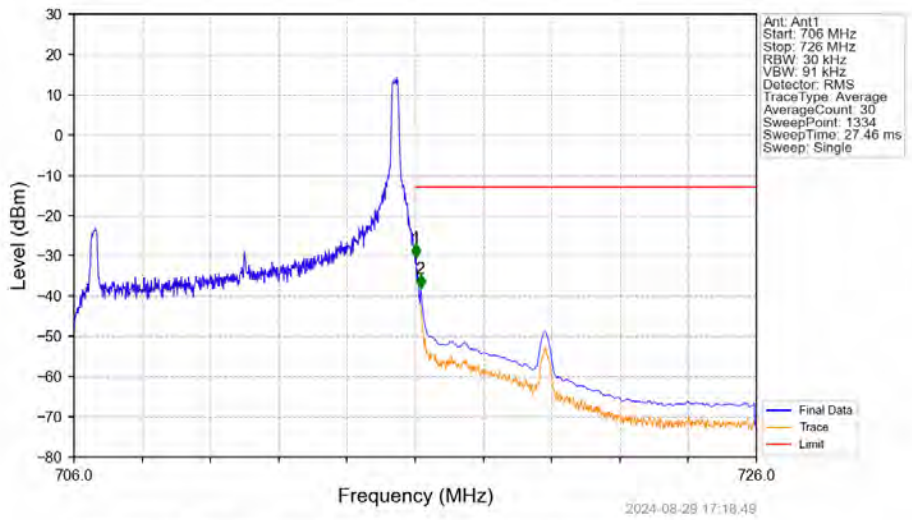
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

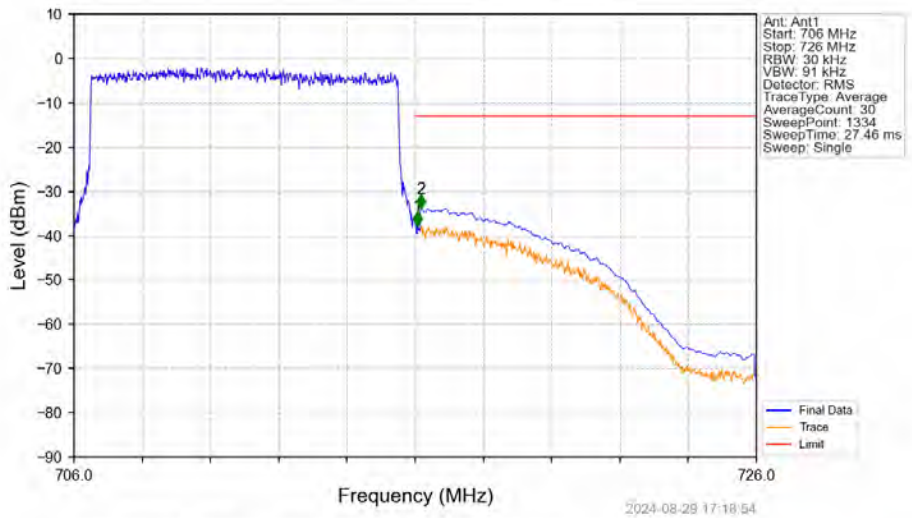


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



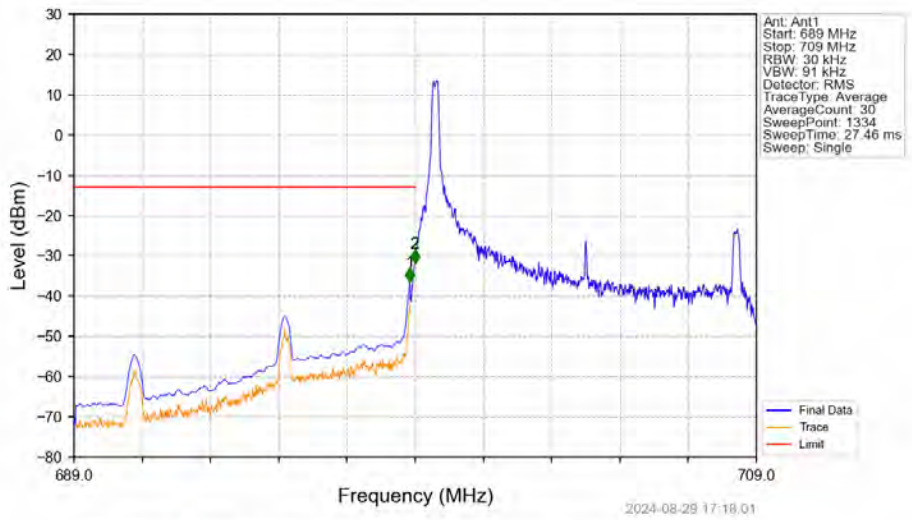
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-30.54	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.13	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



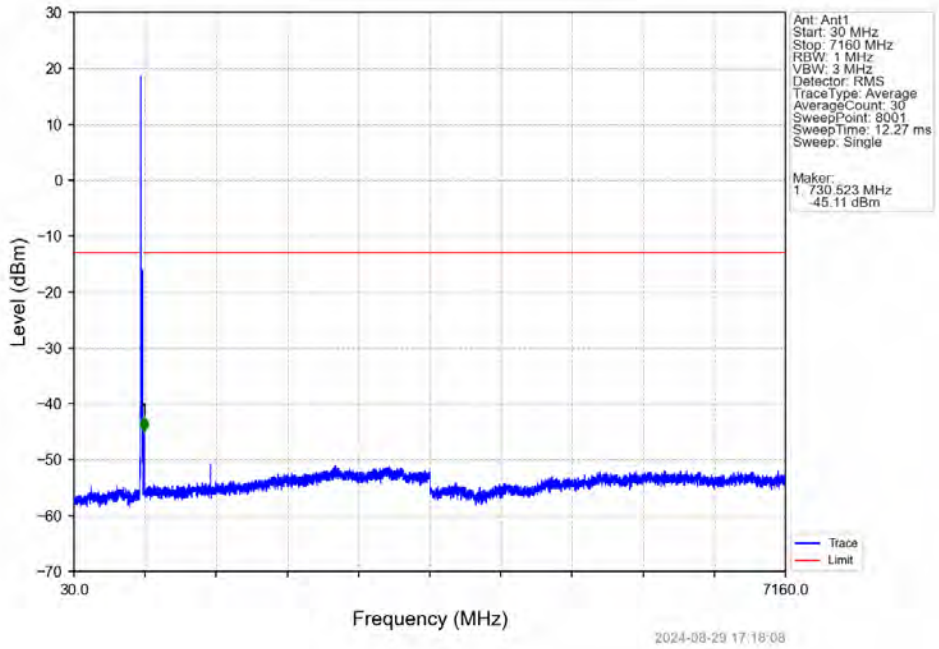
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.068	-37.68	-13	Pass
716.1	726	0.1	CHP	2	716.173	-33.80	-13	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

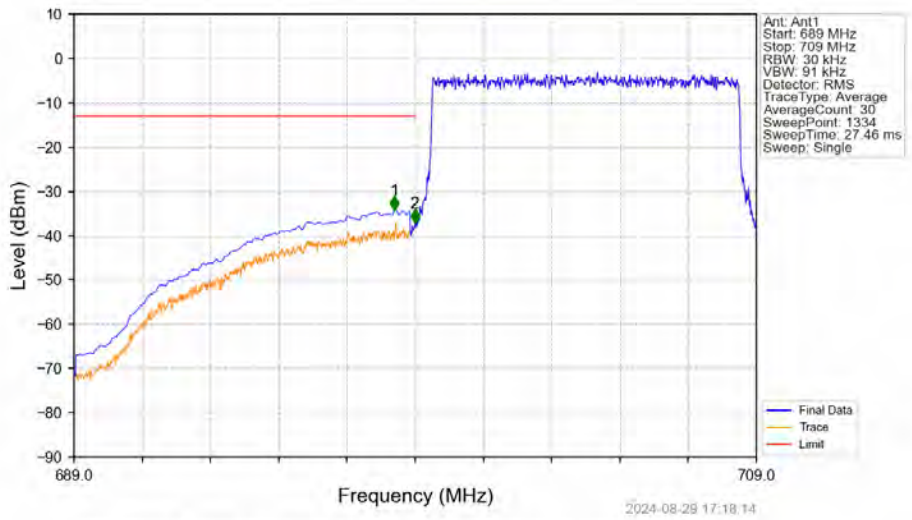


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-36.50	-13	Pass
698.9	699	0.03	/	2	698.992	-31.87	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.392	-34.13	-13	Pass
698.9	699	0.03	/	2	698.992	-37.20	-13	Pass
699	709	0.03	/	/	/	/	/	/

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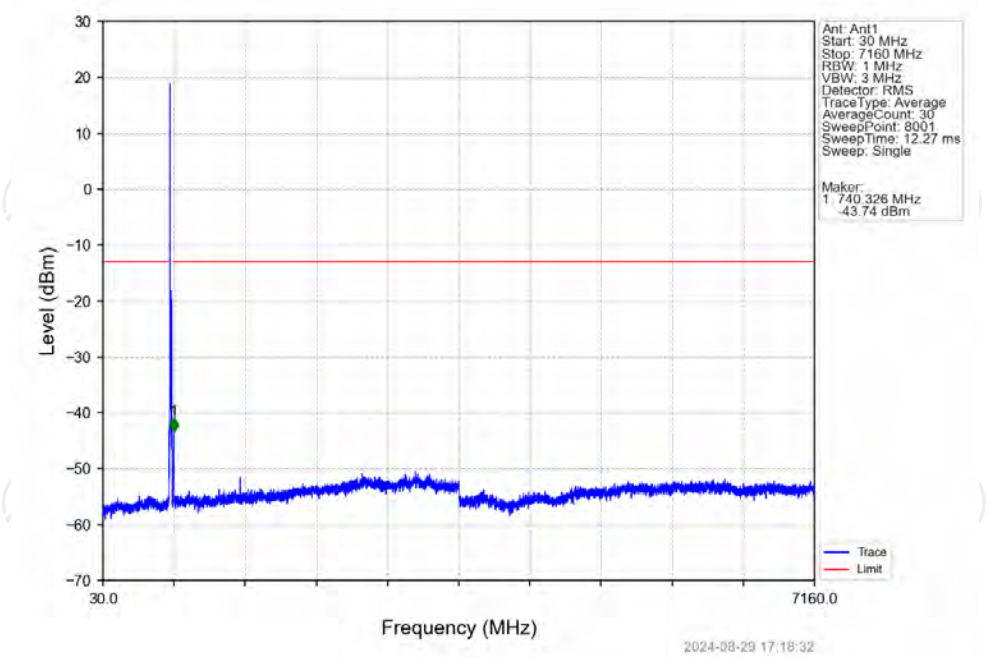
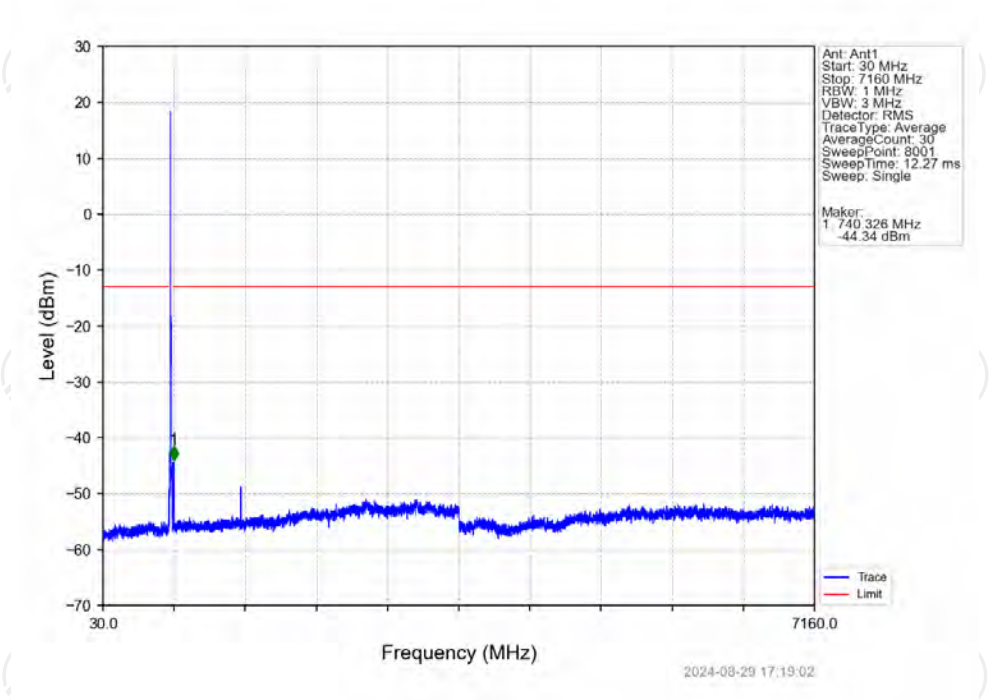
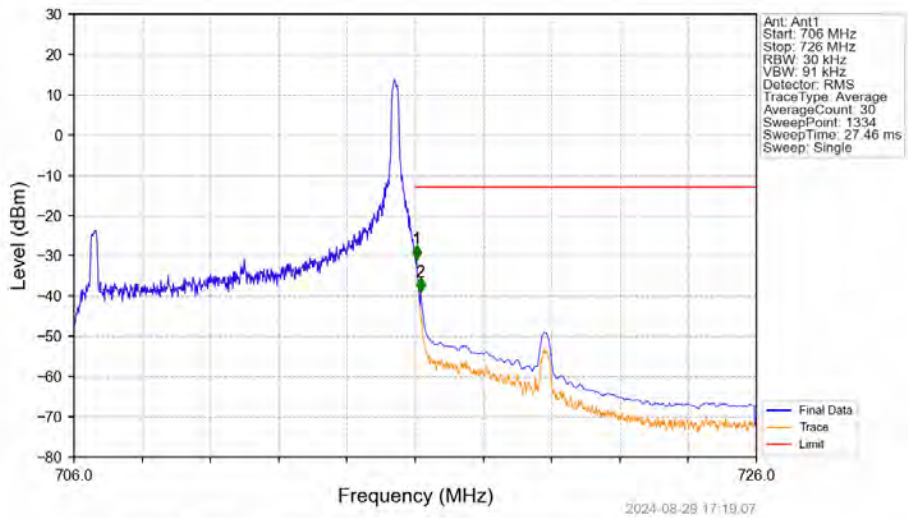
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

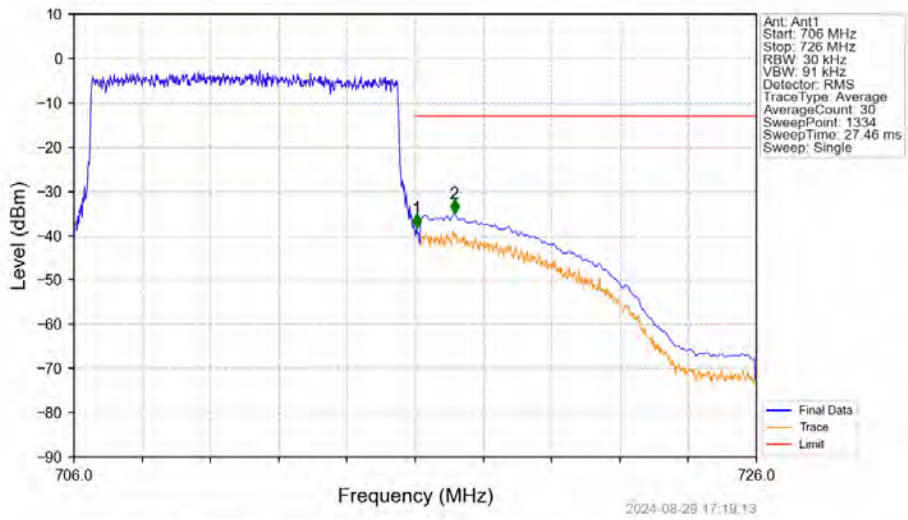


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-30.75	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.81	-13	Pass

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-38.30	-13	Pass
716.1	726	0.1	CHP	2	717.148	-34.99	-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)
12	1.4	699.7	715.3	0.1542	0.0031	ppm	1M11G7D	27H	21.88
12	1.4	699.7	715.3	0.1439	0.0027	ppm	1M11W7D	27H	21.58
12	3	700.5	714.5	0.1500	0.0015	ppm	2M72G7D	27H	21.76
12	3	700.5	714.5	0.1239	0.0020	ppm	2M71W7D	27H	20.93
12	5	701.5	713.5	0.1459	0.0016	ppm	4M57G7D	27H	21.64
12	5	701.5	713.5	0.1153	0.0024	ppm	4M59W7D	27H	20.62
12	10	704	711	0.1330	0.0017	ppm	9M10G7D	27H	21.24
12	10	704	711	0.1432	0.0023	ppm	9M08W7D	27H	21.56

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.0614	0.0031	ppm	1M11G7D	27H	17.88
12	1.4	699.7	715.3	0.0573	0.0027	ppm	1M11W7D	27H	17.58
12	3	700.5	714.5	0.0597	0.0015	ppm	2M72G7D	27H	17.76
12	3	700.5	714.5	0.0493	0.0020	ppm	2M71W7D	27H	16.93
12	5	701.5	713.5	0.0581	0.0016	ppm	4M57G7D	27H	17.64
12	5	701.5	713.5	0.0459	0.0024	ppm	4M59W7D	27H	16.62
12	10	704	711	0.0530	0.0017	ppm	9M10G7D	27H	17.24
12	10	704	711	0.0570	0.0023	ppm	9M08W7D	27H	17.56