

1. Effective (Isotropic) Radiated Power Output Data

1.1 B71_5MHz_ERP

1.1.1 Test Result

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	23.93	-0.90	20.88	<=34.77	Pass
			13	23.98	-0.90	20.93	<=34.77	Pass
			24	23.99	-0.90	20.94	<=34.77	Pass
		12	0	22.88	-0.90	19.83	<=34.77	Pass
			6	22.99	-0.90	19.94	<=34.77	Pass
			13	22.99	-0.90	19.94	<=34.77	Pass
		25	0	22.96	-0.90	19.91	<=34.77	Pass
	680.5	1	0	23.91	-0.90	20.86	<=34.77	Pass
			13	23.95	-0.90	20.90	<=34.77	Pass
			24	23.88	-0.90	20.83	<=34.77	Pass
		12	0	22.88	-0.90	19.83	<=34.77	Pass
			6	22.88	-0.90	19.83	<=34.77	Pass
			13	22.98	-0.90	19.93	<=34.77	Pass
		25	0	22.89	-0.90	19.84	<=34.77	Pass
	695.5	1	0	23.88	-0.90	20.83	<=34.77	Pass
			13	23.97	-0.90	20.92	<=34.77	Pass
			24	23.88	-0.90	20.83	<=34.77	Pass
		12	0	22.85	-0.90	19.80	<=34.77	Pass
			6	22.85	-0.90	19.80	<=34.77	Pass
			13	22.91	-0.90	19.86	<=34.77	Pass
		25	0	22.84	-0.90	19.79	<=34.77	Pass
16QAM	665.5	1	0	23.04	-0.90	19.99	<=34.77	Pass
			13	23.10	-0.90	20.05	<=34.77	Pass
			24	23.13	-0.90	20.08	<=34.77	Pass
		12	0	21.94	-0.90	18.89	<=34.77	Pass
			6	22.04	-0.90	18.99	<=34.77	Pass
			13	22.05	-0.90	19.00	<=34.77	Pass
		25	0	22.04	-0.90	18.99	<=34.77	Pass
	680.5	1	0	23.10	-0.90	20.05	<=34.77	Pass
			13	23.19	-0.90	20.14	<=34.77	Pass
			24	23.18	-0.90	20.13	<=34.77	Pass
		12	0	21.94	-0.90	18.89	<=34.77	Pass
			6	21.94	-0.90	18.89	<=34.77	Pass
			13	21.99	-0.90	18.94	<=34.77	Pass
		25	0	21.91	-0.90	18.86	<=34.77	Pass
	695.5	1	0	23.05	-0.90	20.00	<=34.77	Pass
			13	23.16	-0.90	20.11	<=34.77	Pass
			24	23.06	-0.90	20.01	<=34.77	Pass
		12	0	21.88	-0.90	18.83	<=34.77	Pass
			6	21.89	-0.90	18.84	<=34.77	Pass
			13	22.00	-0.90	18.95	<=34.77	Pass
		25	0	21.88	-0.90	18.83	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B71_10MHz_ERP

1.2.1 Test Result

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	23.89	-0.90	20.84	<=34.77	Pass
			25	23.91	-0.90	20.86	<=34.77	Pass
			49	23.87	-0.90	20.82	<=34.77	Pass
		25	0	22.94	-0.90	19.89	<=34.77	Pass
			13	23.04	-0.90	19.99	<=34.77	Pass
			25	22.99	-0.90	19.94	<=34.77	Pass
		50	0	23.06	-0.90	20.01	<=34.77	Pass
	680.5	1	0	23.88	-0.90	20.83	<=34.77	Pass
			25	23.89	-0.90	20.84	<=34.77	Pass
			49	23.85	-0.90	20.80	<=34.77	Pass
		25	0	22.93	-0.90	19.88	<=34.77	Pass
			13	22.93	-0.90	19.88	<=34.77	Pass
			25	22.95	-0.90	19.90	<=34.77	Pass
		50	0	22.97	-0.90	19.92	<=34.77	Pass
	693	1	0	23.82	-0.90	20.77	<=34.77	Pass
			25	23.90	-0.90	20.85	<=34.77	Pass
			49	23.84	-0.90	20.79	<=34.77	Pass
		25	0	22.87	-0.90	19.82	<=34.77	Pass
			13	22.89	-0.90	19.84	<=34.77	Pass
			25	22.93	-0.90	19.88	<=34.77	Pass
		50	0	22.91	-0.90	19.86	<=34.77	Pass
16QAM	668	1	0	23.09	-0.90	20.04	<=34.77	Pass
			25	23.14	-0.90	20.09	<=34.77	Pass
			49	23.04	-0.90	19.99	<=34.77	Pass
		25	0	21.97	-0.90	18.92	<=34.77	Pass
			13	22.06	-0.90	19.01	<=34.77	Pass
			25	22.03	-0.90	18.98	<=34.77	Pass
		50	0	22.08	-0.90	19.03	<=34.77	Pass
	680.5	1	0	23.07	-0.90	20.02	<=34.77	Pass
			25	23.05	-0.90	20.00	<=34.77	Pass
			49	23.08	-0.90	20.03	<=34.77	Pass
		25	0	21.95	-0.90	18.90	<=34.77	Pass
			13	21.97	-0.90	18.92	<=34.77	Pass
			25	21.99	-0.90	18.94	<=34.77	Pass
		50	0	22.00	-0.90	18.95	<=34.77	Pass
	693	1	0	23.03	-0.90	19.98	<=34.77	Pass
			25	23.12	-0.90	20.07	<=34.77	Pass
			49	23.09	-0.90	20.04	<=34.77	Pass
		25	0	21.91	-0.90	18.86	<=34.77	Pass
			13	21.94	-0.90	18.89	<=34.77	Pass
			25	21.99	-0.90	18.94	<=34.77	Pass
		50	0	21.91	-0.90	18.86	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.3 B71_15MHz_ERP

1.3.1 Test Result

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	23.81	-0.90	20.76	<=34.77	Pass	
			38	23.92	-0.90	20.87	<=34.77	Pass	
			74	23.84	-0.90	20.79	<=34.77	Pass	
		36	0	22.88	-0.90	19.83	<=34.77	Pass	
			18	22.98	-0.90	19.93	<=34.77	Pass	
			39	22.91	-0.90	19.86	<=34.77	Pass	
		75	0	23.04	-0.90	19.99	<=34.77	Pass	
		680.5	1	0	23.83	-0.90	20.78	<=34.77	Pass
				38	23.85	-0.90	20.80	<=34.77	Pass
	74			23.75	-0.90	20.70	<=34.77	Pass	
	36		0	22.93	-0.90	19.88	<=34.77	Pass	
			18	22.88	-0.90	19.83	<=34.77	Pass	
			39	22.84	-0.90	19.79	<=34.77	Pass	
	75		0	22.94	-0.90	19.89	<=34.77	Pass	
	690.5		1	0	23.86	-0.90	20.81	<=34.77	Pass
				38	23.89	-0.90	20.84	<=34.77	Pass
		74		23.84	-0.90	20.79	<=34.77	Pass	
		36	0	22.80	-0.90	19.75	<=34.77	Pass	
			18	22.81	-0.90	19.76	<=34.77	Pass	
			39	22.91	-0.90	19.86	<=34.77	Pass	
		75	0	22.92	-0.90	19.87	<=34.77	Pass	
16QAM		670.5	1	0	23.07	-0.90	20.02	<=34.77	Pass
				38	23.10	-0.90	20.05	<=34.77	Pass
	74			23.03	-0.90	19.98	<=34.77	Pass	
	36		0	21.88	-0.90	18.83	<=34.77	Pass	
			18	21.97	-0.90	18.92	<=34.77	Pass	
			39	21.90	-0.90	18.85	<=34.77	Pass	
	75		0	22.06	-0.90	19.01	<=34.77	Pass	
	680.5		1	0	23.04	-0.90	19.99	<=34.77	Pass
				38	23.00	-0.90	19.95	<=34.77	Pass
		74		22.91	-0.90	19.86	<=34.77	Pass	
		36	0	21.92	-0.90	18.87	<=34.77	Pass	
			18	21.88	-0.90	18.83	<=34.77	Pass	
			39	21.88	-0.90	18.83	<=34.77	Pass	
		75	0	21.99	-0.90	18.94	<=34.77	Pass	
		690.5	1	0	23.04	-0.90	19.99	<=34.77	Pass
				38	23.03	-0.90	19.98	<=34.77	Pass
	74			22.92	-0.90	19.87	<=34.77	Pass	
	36		0	21.88	-0.90	18.83	<=34.77	Pass	
			18	21.83	-0.90	18.78	<=34.77	Pass	
			39	21.89	-0.90	18.84	<=34.77	Pass	
	75		0	21.89	-0.90	18.84	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.4 B71_20MHz_ERP

1.4.1 Test Result

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	23.88	-0.90	20.83	<=34.77	Pass
			50	23.90	-0.90	20.85	<=34.77	Pass

16QAM	683	50	99	23.80	-0.90	20.75	<=34.77	Pass	
			0	22.96	-0.90	19.91	<=34.77	Pass	
			25	23.03	-0.90	19.98	<=34.77	Pass	
			50	22.96	-0.90	19.91	<=34.77	Pass	
		100	0	23.17	-0.90	20.12	<=34.77	Pass	
		1	0	23.91	-0.90	20.86	<=34.77	Pass	
			50	23.93	-0.90	20.88	<=34.77	Pass	
			99	23.77	-0.90	20.72	<=34.77	Pass	
			50	0	22.96	-0.90	19.91	<=34.77	Pass
				25	22.91	-0.90	19.86	<=34.77	Pass
	50			22.88	-0.90	19.83	<=34.77	Pass	
	100			0	23.04	-0.90	19.99	<=34.77	Pass
	688		1	0	23.95	-0.90	20.90	<=34.77	Pass
		50		23.88	-0.90	20.83	<=34.77	Pass	
		99		23.81	-0.90	20.76	<=34.77	Pass	
		50	0	22.92	-0.90	19.87	<=34.77	Pass	
			25	22.90	-0.90	19.85	<=34.77	Pass	
			50	22.87	-0.90	19.82	<=34.77	Pass	
		100	0	23.04	-0.90	19.99	<=34.77	Pass	
		673	1	0	23.11	-0.90	20.06	<=34.77	Pass
	50			23.19	-0.90	20.14	<=34.77	Pass	
	99			23.15	-0.90	20.10	<=34.77	Pass	
	50			0	21.93	-0.90	18.88	<=34.77	Pass
				25	22.08	-0.90	19.03	<=34.77	Pass
				50	22.02	-0.90	18.97	<=34.77	Pass
	100		0	22.16	-0.90	19.11	<=34.77	Pass	
	683		1	0	23.03	-0.90	19.98	<=34.77	Pass
				50	22.98	-0.90	19.93	<=34.77	Pass
				99	22.87	-0.90	19.82	<=34.77	Pass
			50	0	21.94	-0.90	18.89	<=34.77	Pass
25				21.88	-0.90	18.83	<=34.77	Pass	
50				21.88	-0.90	18.83	<=34.77	Pass	
100			0	22.04	-0.90	18.99	<=34.77	Pass	
688	1		0	23.14	-0.90	20.09	<=34.77	Pass	
			50	23.15	-0.90	20.10	<=34.77	Pass	
			99	23.11	-0.90	20.06	<=34.77	Pass	
	50		0	21.89	-0.90	18.84	<=34.77	Pass	
			25	21.92	-0.90	18.87	<=34.77	Pass	
		50	21.92	-0.90	18.87	<=34.77	Pass		
	100	0	22.04	-0.90	18.99	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 B71_20MHz

2.1.1 Test Result

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	-0.143	-0.0002	-2.5 to 2.5	Pass
					3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.186	-0.0003	-2.5 to 2.5	Pass

				-30	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.215	0.0003	-2.5 to 2.5	Pass
				10	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-1.187	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-0.801	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
	683	100	0	20	3.27	-1.373	-0.0020	-2.5 to 2.5	Pass
					3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
					4.43	-1.402	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-0.944	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.172	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-1.287	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-0.944	-0.0014	-2.5 to 2.5	Pass
	688	100	0	30	3.85	-1.602	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.245	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-1.159	-0.0017	-2.5 to 2.5	Pass
				20	3.27	-1.616	-0.0023	-2.5 to 2.5	Pass
					3.85	-1.802	-0.0026	-2.5 to 2.5	Pass
					4.43	-1.903	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-1.802	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-1.717	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-1.144	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				30	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-1.917	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-1.831	-0.0027	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

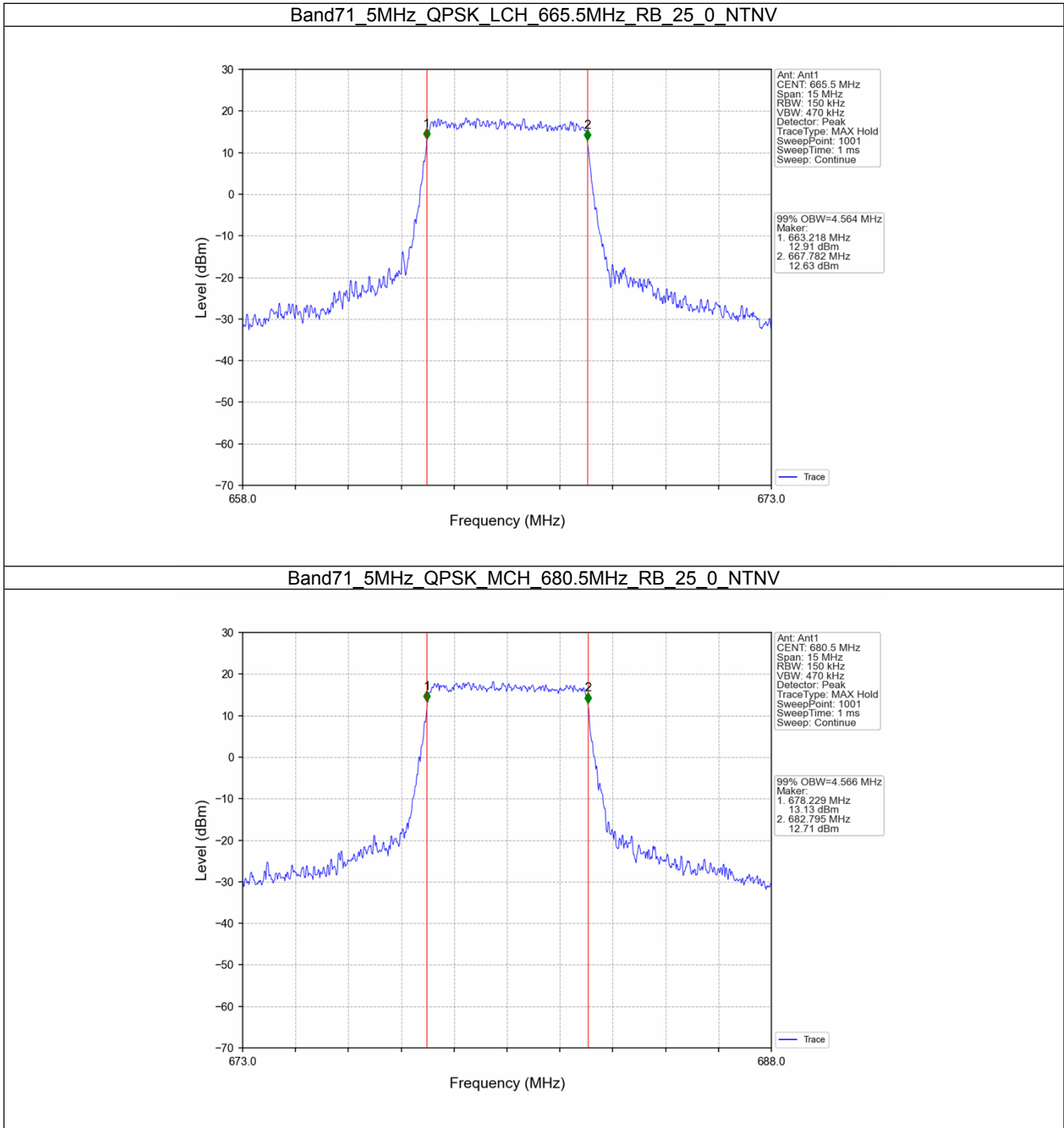
3.1 Band71_OBW

3.1.1 Test Result

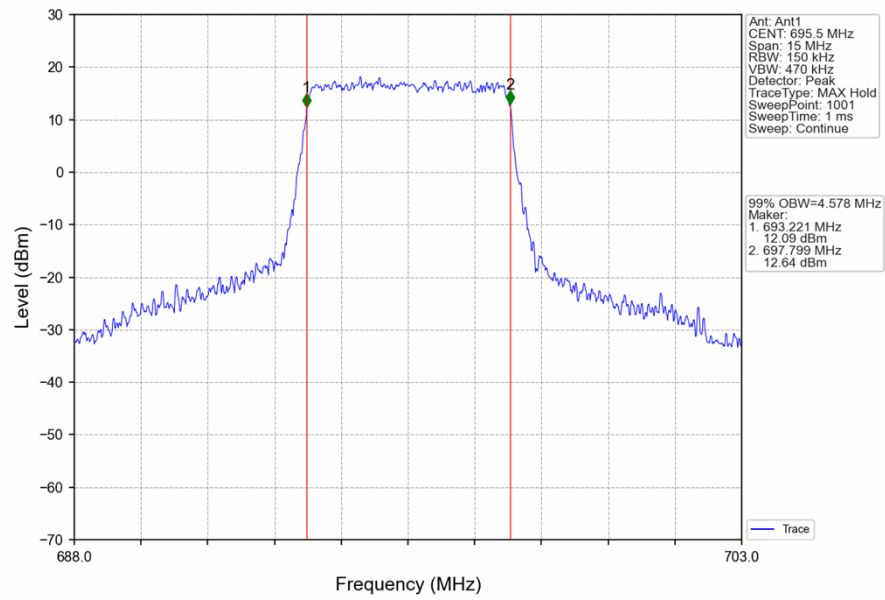
Band: 71 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	4.564	/	Pass
		680.5	25	0	4.566	/	Pass
		695.5	25	0	4.578	/	Pass
	16QAM	665.5	25	0	4.573	/	Pass
		680.5	25	0	4.571	/	Pass
		695.5	25	0	4.583	/	Pass
10	QPSK	668	50	0	9.088	/	Pass
		680.5	50	0	9.076	/	Pass
		693	50	0	9.049	/	Pass
	16QAM	668	50	0	9.127	/	Pass
		680.5	50	0	9.066	/	Pass
		693	50	0	9.028	/	Pass
15	QPSK	670.5	75	0	13.577	/	Pass
		680.5	75	0	13.603	/	Pass

	16QAM	690.5	75	0	13.584	/	Pass
		670.5	75	0	13.632	/	Pass
		680.5	75	0	13.617	/	Pass
		690.5	75	0	13.533	/	Pass
20	QPSK	673	100	0	18.110	/	Pass
		683	100	0	18.095	/	Pass
		688	100	0	18.081	/	Pass
	16QAM	673	100	0	18.105	/	Pass
		683	100	0	18.103	/	Pass
		688	100	0	18.037	/	Pass

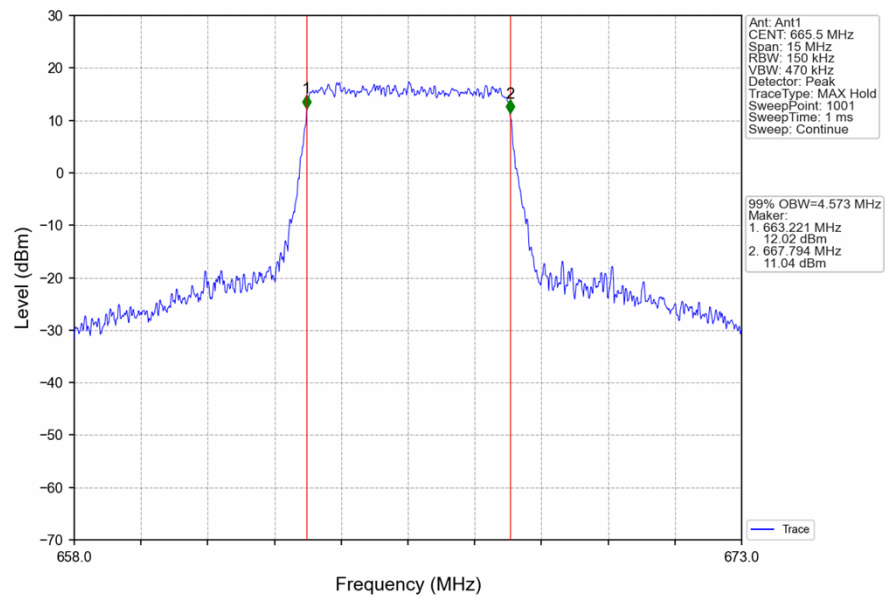
3.1.2 Test Graph



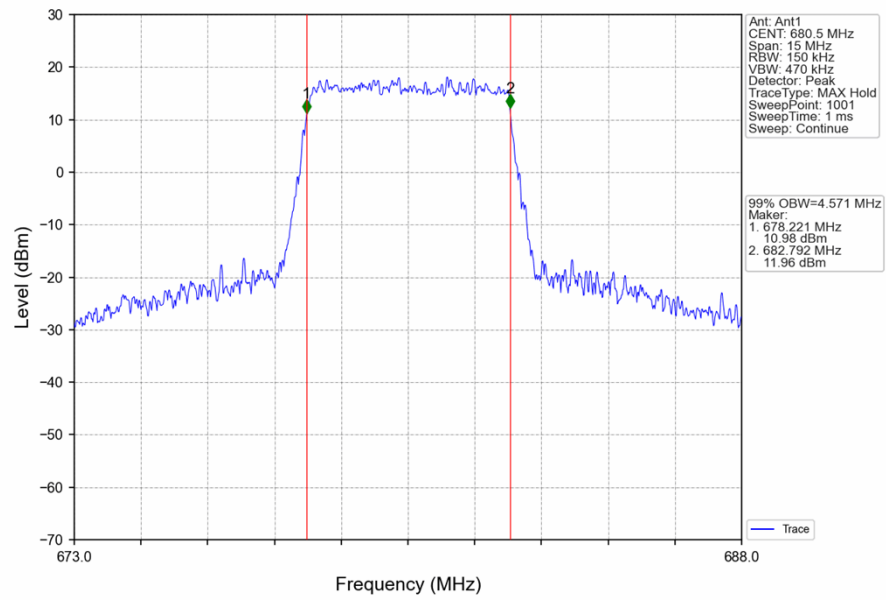
Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



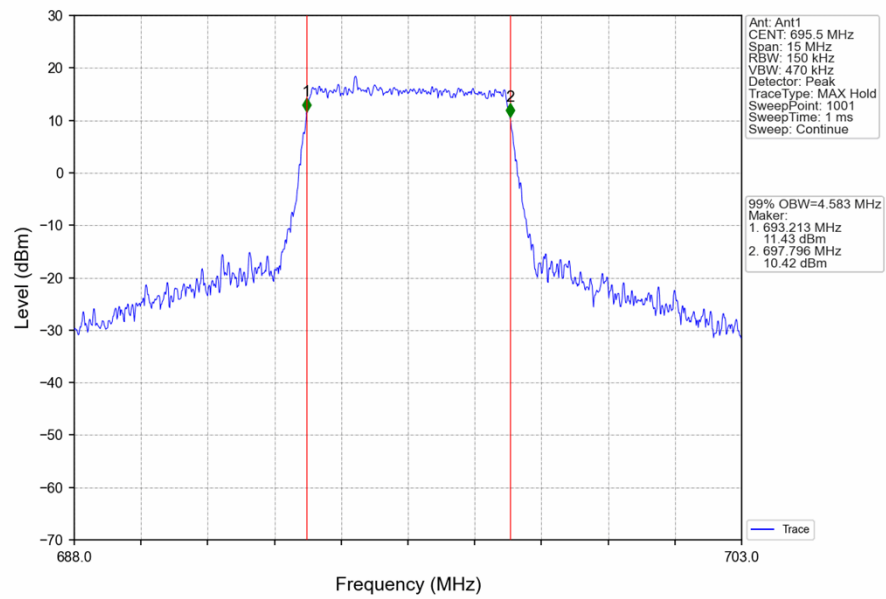
Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



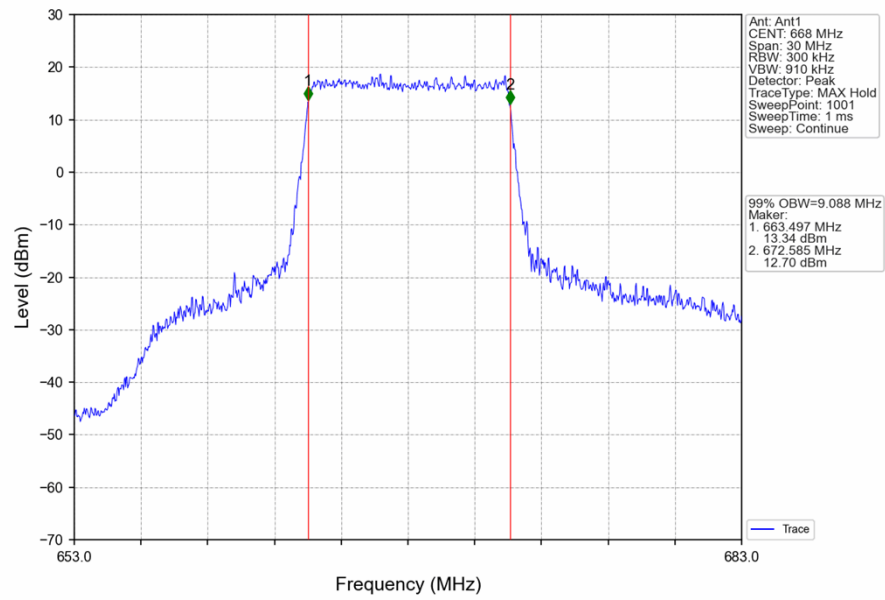
Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



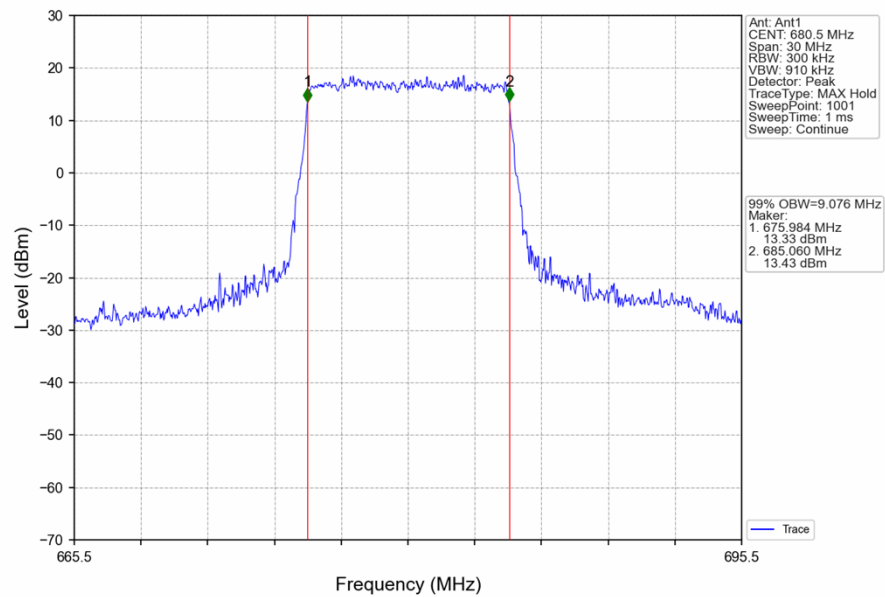
Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



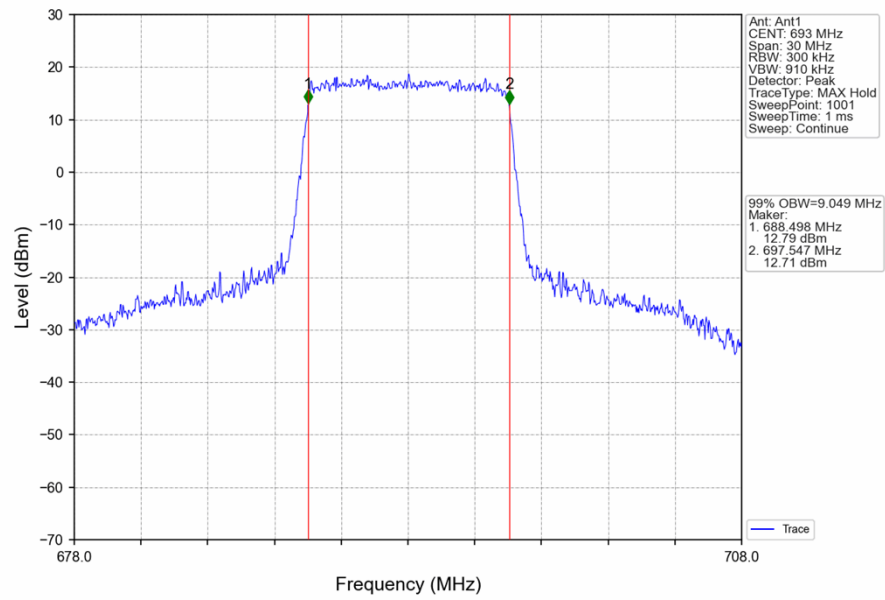
Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV



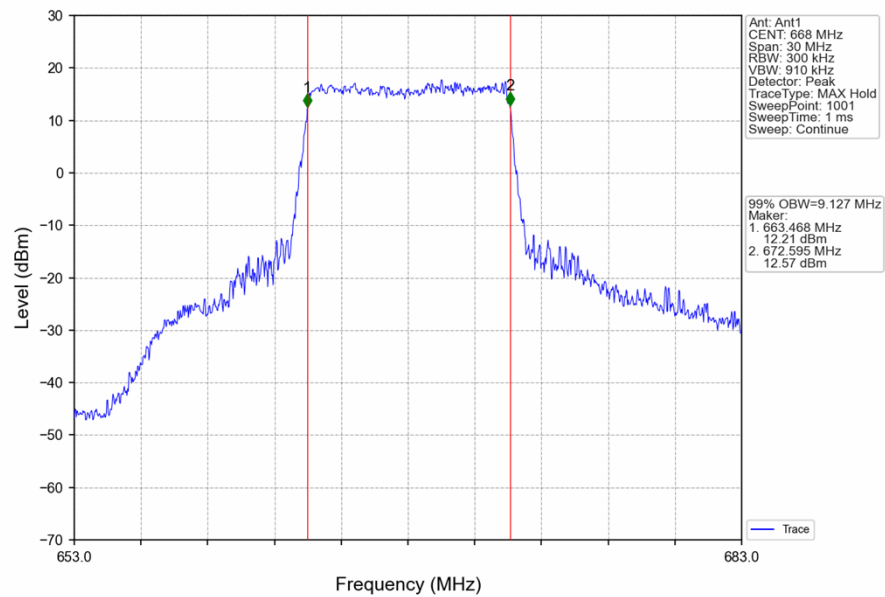
Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



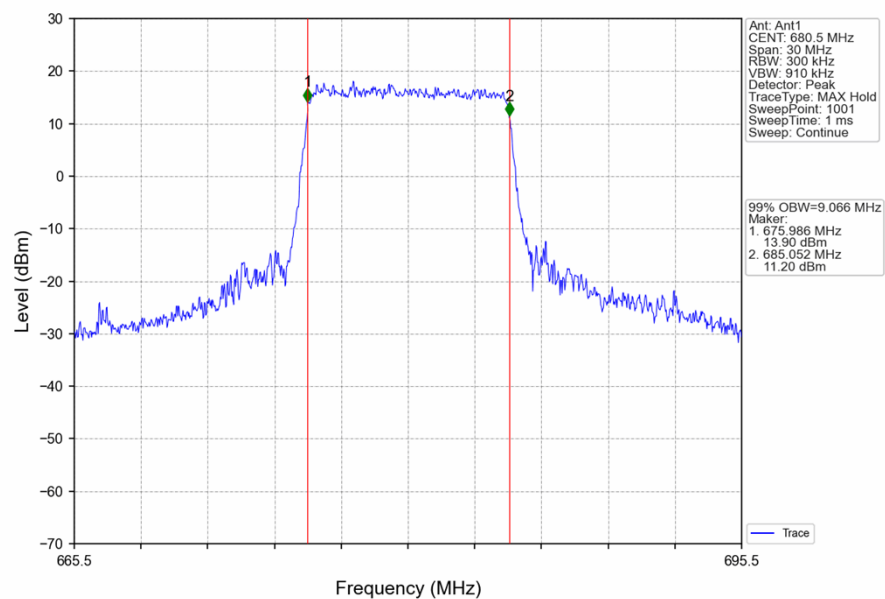
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



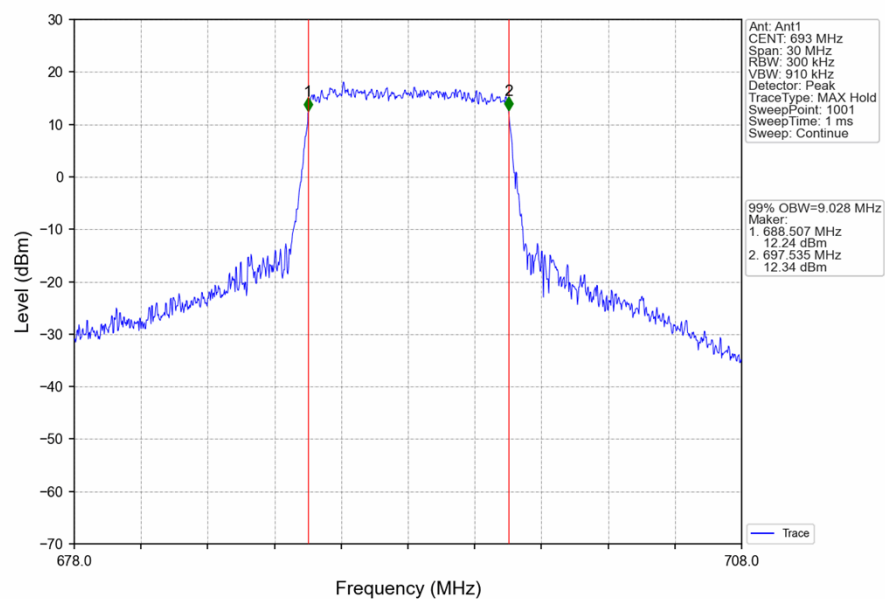
Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



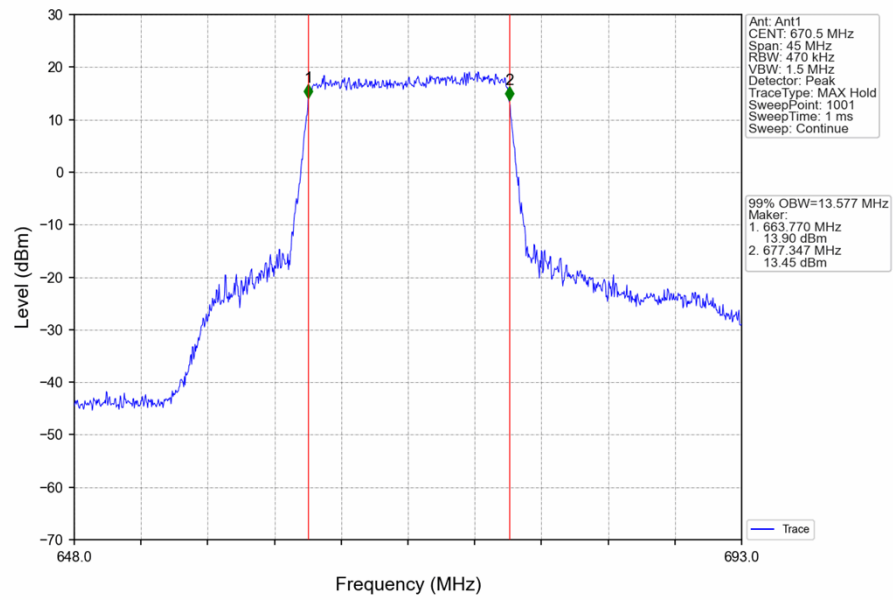
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



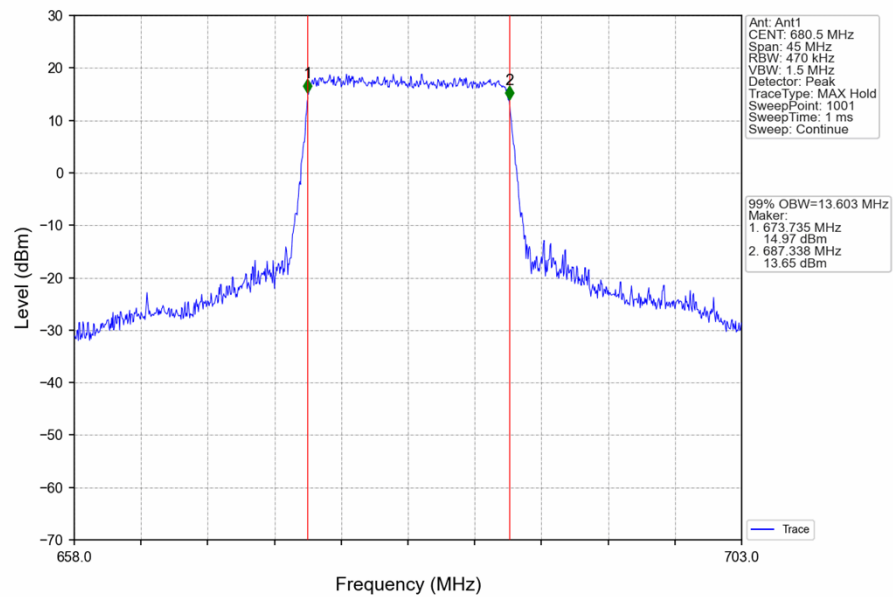
Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



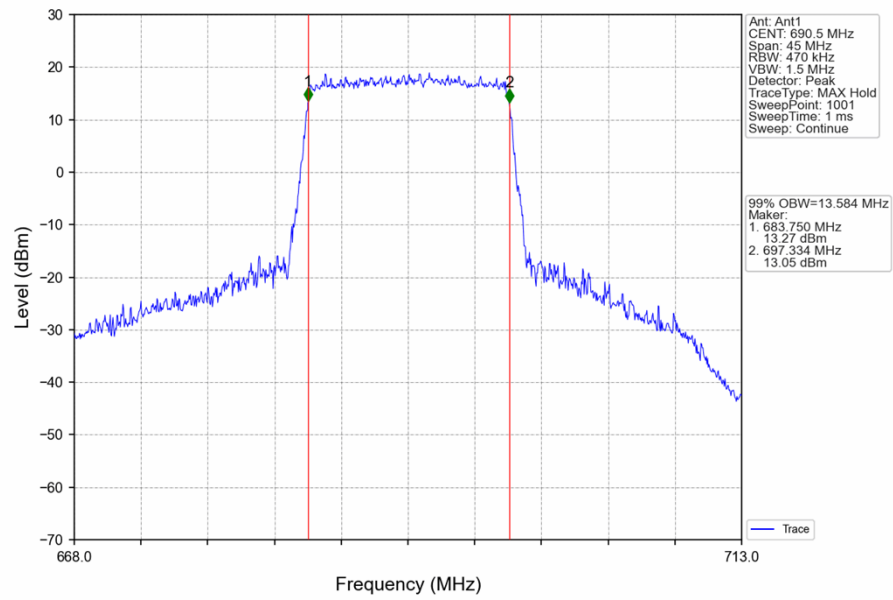
Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



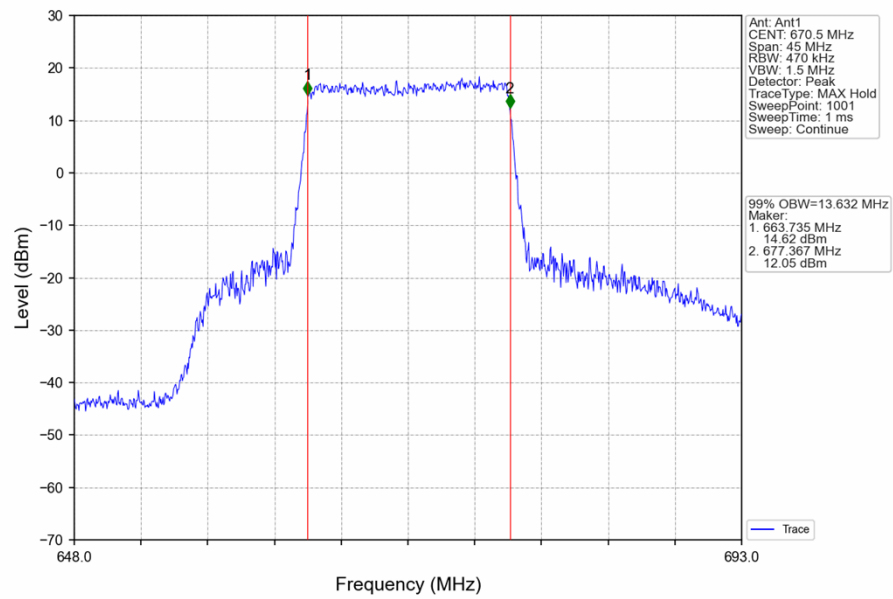
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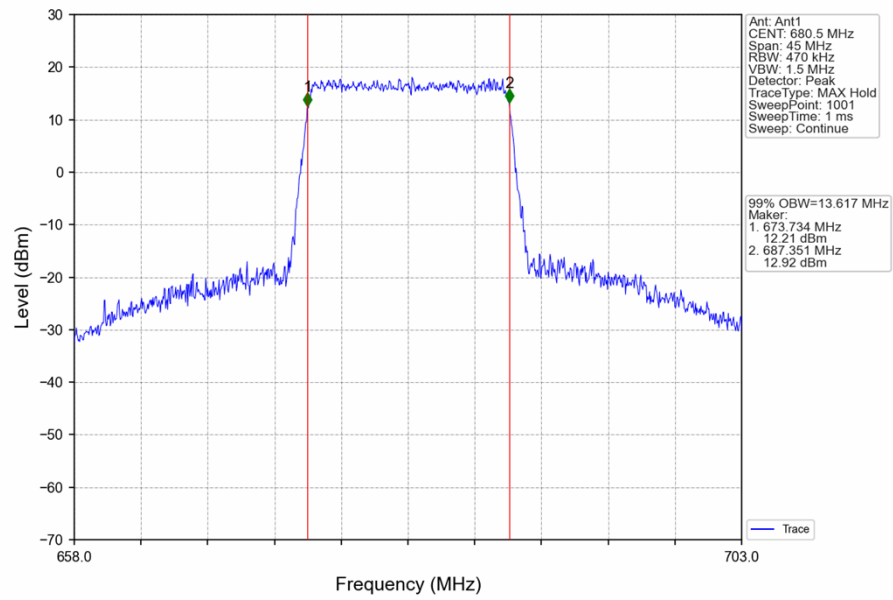
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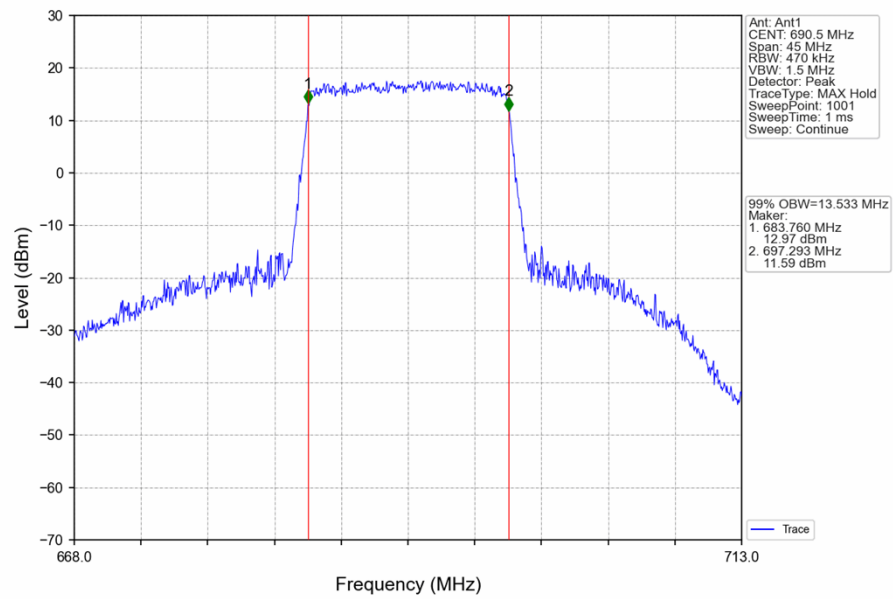
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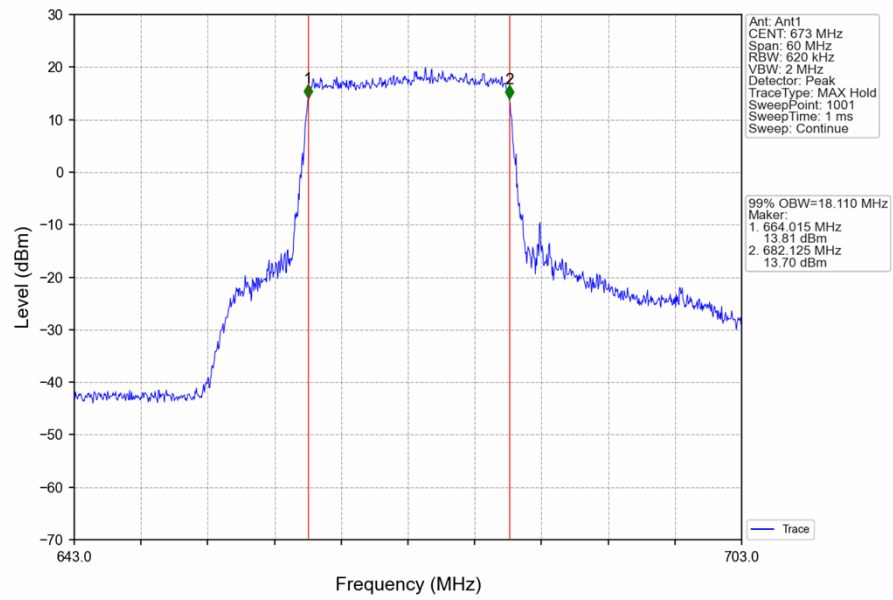
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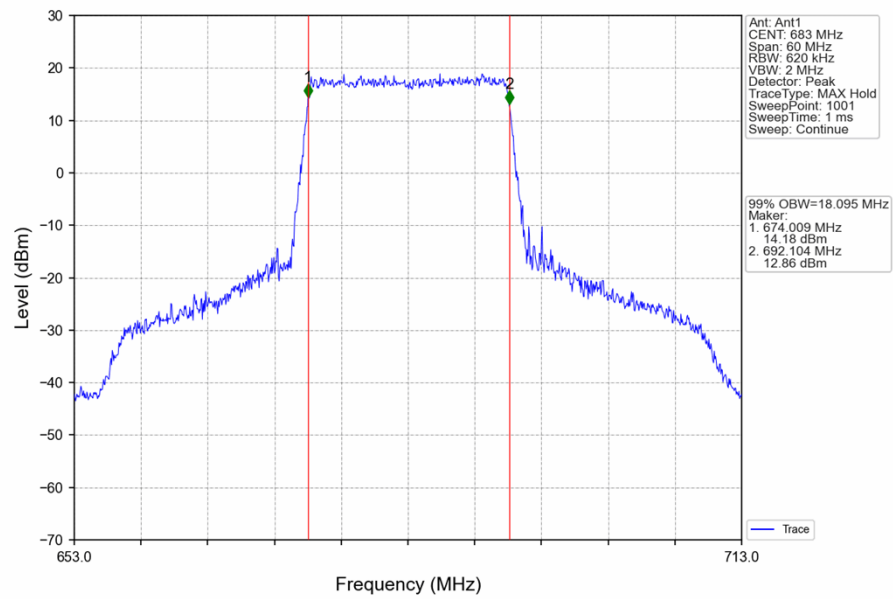
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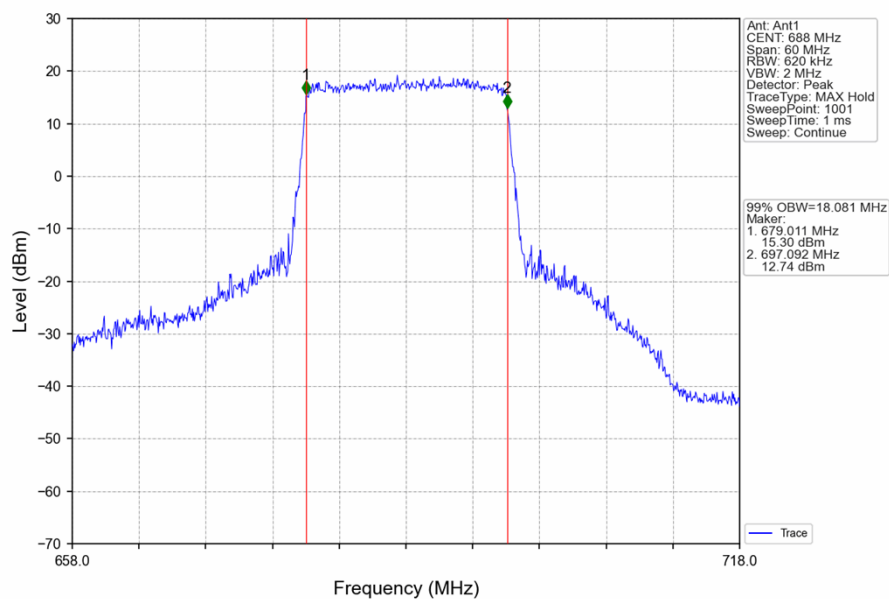
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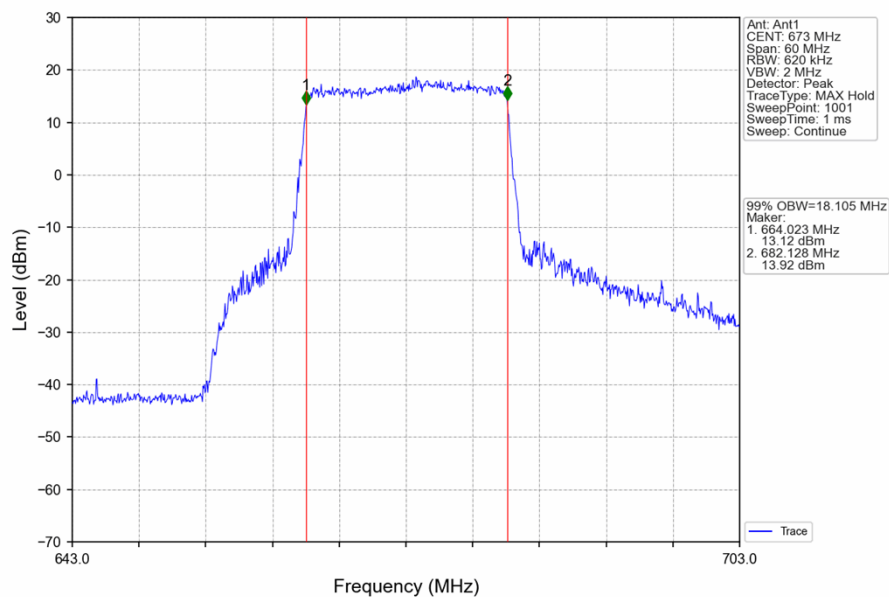
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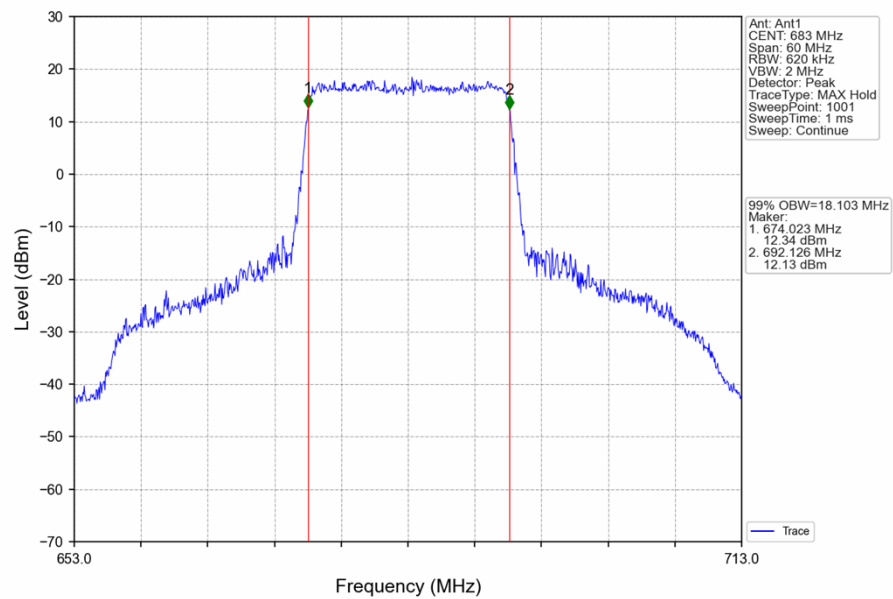
Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV

