

# Appendix B.10

## LTE Band 71



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 B71\_5MHz\_ERP

Band: 71 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	665.5	1	0	23.90	0.89	22.64	<=34.77	Pass
			13	23.93	0.89	22.67	<=34.77	Pass
			24	23.79	0.89	22.53	<=34.77	Pass
		12	0	22.73	0.89	21.47	<=34.77	Pass
			6	22.80	0.89	21.54	<=34.77	Pass
			13	22.79	0.89	21.53	<=34.77	Pass
	680.5	25	0	22.82	0.89	21.56	<=34.77	Pass
		1	0	23.89	0.89	22.63	<=34.77	Pass
			13	23.92	0.89	22.66	<=34.77	Pass
			24	23.76	0.89	22.5	<=34.77	Pass
16QAM	695.5	1	0	22.81	0.89	21.55	<=34.77	Pass
			6	22.80	0.89	21.54	<=34.77	Pass
			13	22.81	0.89	21.55	<=34.77	Pass
		25	0	22.76	0.89	21.5	<=34.77	Pass
		1	0	23.68	0.89	22.42	<=34.77	Pass
			13	23.81	0.89	22.55	<=34.77	Pass
			24	23.54	0.89	22.28	<=34.77	Pass
		12	0	22.63	0.89	21.37	<=34.77	Pass
			6	22.71	0.89	21.45	<=34.77	Pass
			13	22.65	0.89	21.39	<=34.77	Pass
		25	0	22.69	0.89	21.43	<=34.77	Pass
	665.5	1	0	22.96	0.89	21.7	<=34.77	Pass
			13	23.06	0.89	21.8	<=34.77	Pass
			24	22.93	0.89	21.67	<=34.77	Pass
		12	0	21.85	0.89	20.59	<=34.77	Pass
			6	21.91	0.89	20.65	<=34.77	Pass
			13	21.92	0.89	20.66	<=34.77	Pass
		25	0	21.80	0.89	20.54	<=34.77	Pass
	680.5	1	0	22.96	0.89	21.7	<=34.77	Pass

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		13	23.11	0.89	21.85	<=34.77	Pass	
		24	22.98	0.89	21.72	<=34.77	Pass	
		12	0	21.72	0.89	20.46	<=34.77	Pass
			6	21.89	0.89	20.63	<=34.77	Pass
			13	21.76	0.89	20.5	<=34.77	Pass
	695.5	25	0	21.74	0.89	20.48	<=34.77	Pass
		1	0	22.80	0.89	21.54	<=34.77	Pass
			13	22.93	0.89	21.67	<=34.77	Pass
			24	22.71	0.89	21.45	<=34.77	Pass
		12	0	21.57	0.89	20.31	<=34.77	Pass
			6	21.77	0.89	20.51	<=34.77	Pass
			13	21.67	0.89	20.41	<=34.77	Pass
		25	0	21.69	0.89	20.43	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B71\_10MHz\_ERP

Band: 71 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	668	1	0	23.81	0.89	22.55	<=34.77	Pass
			25	23.83	0.89	22.57	<=34.77	Pass
			49	23.93	0.89	22.67	<=34.77	Pass
		25	0	22.73	0.89	21.47	<=34.77	Pass
			13	22.80	0.89	21.54	<=34.77	Pass
			25	22.82	0.89	21.56	<=34.77	Pass
	680.5	50	0	22.82	0.89	21.56	<=34.77	Pass
		1	0	23.87	0.89	22.61	<=34.77	Pass
			25	23.87	0.89	22.61	<=34.77	Pass
			49	23.74	0.89	22.48	<=34.77	Pass
		25	0	22.87	0.89	21.61	<=34.77	Pass
			13	22.80	0.89	21.54	<=34.77	Pass
			25	22.79	0.89	21.53	<=34.77	Pass
			50	0	22.76	0.89	21.5	<=34.77
	693	1	0	23.75	0.89	22.49	<=34.77	Pass
			25	23.77	0.89	22.51	<=34.77	Pass
			49	23.60	0.89	22.34	<=34.77	Pass
		25	0	22.71	0.89	21.45	<=34.77	Pass



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		13	22.77	0.89	21.51	<=34.77	Pass	
		25	22.68	0.89	21.42	<=34.77	Pass	
		50	0	22.69	0.89	21.43	<=34.77	Pass
16QAM	668	0	23.00	0.89	21.74	<=34.77	Pass	
		25	23.00	0.89	21.74	<=34.77	Pass	
		49	23.09	0.89	21.83	<=34.77	Pass	
		0	21.75	0.89	20.49	<=34.77	Pass	
	680.5	25	21.82	0.89	20.56	<=34.77	Pass	
		25	21.85	0.89	20.59	<=34.77	Pass	
		50	0	21.83	0.89	20.57	<=34.77	Pass
		0	23.06	0.89	21.8	<=34.77	Pass	
	693	1	23.04	0.89	21.78	<=34.77	Pass	
		49	22.91	0.89	21.65	<=34.77	Pass	
		0	21.85	0.89	20.59	<=34.77	Pass	
		25	21.79	0.89	20.53	<=34.77	Pass	
		25	21.82	0.89	20.56	<=34.77	Pass	
		50	0	21.77	0.89	20.51	<=34.77	Pass
		0	23.02	0.89	21.76	<=34.77	Pass	
		1	22.95	0.89	21.69	<=34.77	Pass	
		49	22.84	0.89	21.58	<=34.77	Pass	
		0	21.75	0.89	20.49	<=34.77	Pass	
		25	21.82	0.89	20.56	<=34.77	Pass	
		25	21.70	0.89	20.44	<=34.77	Pass	
		50	0	21.69	0.89	20.43	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B71\_15MHz\_ERP

Modulation	Frequency (MHz)	Band: 71 / Bandwidth: 15MHz / NTV						
		RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		
		Size	Offset			Result	Limit	
QPSK	670.5	1	0	23.70	0.89	22.44	<=34.77	Pass
			38	23.73	0.89	22.47	<=34.77	Pass
			74	23.73	0.89	22.47	<=34.77	Pass
		36	0	22.65	0.89	21.39	<=34.77	Pass
			18	22.75	0.89	21.49	<=34.77	Pass
			39	22.73	0.89	21.47	<=34.77	Pass
			75	0	22.75	0.89	21.49	<=34.77



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	680.5	1	0	23.77	0.89	22.51	<=34.77	Pass
			38	23.72	0.89	22.46	<=34.77	Pass
			74	23.50	0.89	22.24	<=34.77	Pass
		36	0	22.78	0.89	21.52	<=34.77	Pass
			18	22.69	0.89	21.43	<=34.77	Pass
			39	22.65	0.89	21.39	<=34.77	Pass
		75	0	22.66	0.89	21.4	<=34.77	Pass
	690.5	1	0	23.61	0.89	22.35	<=34.77	Pass
			38	23.66	0.89	22.4	<=34.77	Pass
			74	23.48	0.89	22.22	<=34.77	Pass
		36	0	22.58	0.89	21.32	<=34.77	Pass
			18	22.54	0.89	21.28	<=34.77	Pass
			39	22.57	0.89	21.31	<=34.77	Pass
		75	0	22.51	0.89	21.25	<=34.77	Pass
16QAM	670.5	1	0	22.92	0.89	21.66	<=34.77	Pass
			38	22.87	0.89	21.61	<=34.77	Pass
			74	22.92	0.89	21.66	<=34.77	Pass
		36	0	21.65	0.89	20.39	<=34.77	Pass
			18	21.77	0.89	20.51	<=34.77	Pass
			39	21.74	0.89	20.48	<=34.77	Pass
		75	0	21.75	0.89	20.49	<=34.77	Pass
	680.5	1	0	23.00	0.89	21.74	<=34.77	Pass
			38	22.81	0.89	21.55	<=34.77	Pass
			74	22.81	0.89	21.55	<=34.77	Pass
		36	0	21.78	0.89	20.52	<=34.77	Pass
			18	21.70	0.89	20.44	<=34.77	Pass
			39	21.60	0.89	20.34	<=34.77	Pass
		75	0	21.69	0.89	20.43	<=34.77	Pass
	690.5	1	0	22.76	0.89	21.5	<=34.77	Pass
			38	22.88	0.89	21.62	<=34.77	Pass
			74	22.68	0.89	21.42	<=34.77	Pass
		36	0	21.59	0.89	20.33	<=34.77	Pass
			18	21.57	0.89	20.31	<=34.77	Pass
			39	21.55	0.89	20.29	<=34.77	Pass
		75	0	21.54	0.89	20.28	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

#### 1.1.4 B71\_20MHz\_ERP



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Band: 71 / Bandwidth: 20MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	673	1	0	23.65	0.89	22.39	<=34.77	Pass	
			50	23.84	0.89	22.58	<=34.77	Pass	
			99	23.67	0.89	22.41	<=34.77	Pass	
		50	0	22.74	0.89	21.48	<=34.77	Pass	
			25	22.81	0.89	21.55	<=34.77	Pass	
			50	22.82	0.89	21.56	<=34.77	Pass	
	683	1	100	0	22.79	0.89	21.53	<=34.77	Pass
			0	23.84	0.89	22.58	<=34.77	Pass	
			50	23.67	0.89	22.41	<=34.77	Pass	
		50	99	23.51	0.89	22.25	<=34.77	Pass	
			0	22.79	0.89	21.53	<=34.77	Pass	
			25	22.72	0.89	21.46	<=34.77	Pass	
16QAM	688	1	50	22.63	0.89	21.37	<=34.77	Pass	
			100	0	22.62	0.89	21.36	<=34.77	Pass
		50	0	23.81	0.89	22.55	<=34.77	Pass	
			50	23.68	0.89	22.42	<=34.77	Pass	
			99	23.50	0.89	22.24	<=34.77	Pass	
	673	1	0	22.69	0.89	21.43	<=34.77	Pass	
			50	22.67	0.89	21.41	<=34.77	Pass	
			50	22.58	0.89	21.32	<=34.77	Pass	
		50	100	0	22.69	0.89	21.43	<=34.77	Pass
			0	22.86	0.89	21.6	<=34.77	Pass	
			50	23.10	0.89	21.84	<=34.77	Pass	
	683	1	99	22.88	0.89	21.62	<=34.77	Pass	
			0	21.68	0.89	20.42	<=34.77	Pass	
			50	21.82	0.89	20.56	<=34.77	Pass	
		50	50	21.77	0.89	20.51	<=34.77	Pass	
			100	0	21.78	0.89	20.52	<=34.77	Pass
			0	22.96	0.89	21.7	<=34.77	Pass	
	673	1	50	22.94	0.89	21.68	<=34.77	Pass	
			99	22.74	0.89	21.48	<=34.77	Pass	
			0	21.78	0.89	20.52	<=34.77	Pass	
		50	25	21.73	0.89	20.47	<=34.77	Pass	
			50	21.60	0.89	20.34	<=34.77	Pass	
			100	0	21.65	0.89	20.39	<=34.77	Pass



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688	1	0	23.05	0.89	21.79	<=34.77	Pass
		50	22.96	0.89	21.7	<=34.77	Pass
		99	22.74	0.89	21.48	<=34.77	Pass
	50	0	21.66	0.89	20.4	<=34.77	Pass
		25	21.66	0.89	20.4	<=34.77	Pass
		50	21.57	0.89	20.31	<=34.77	Pass
	100		0	21.69	0.89	20.43	<=34.77

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B71\_5MHz

Modulation	Frequency (MHz)	Band: 71 / Bandwidth: 5MHz						Verdict	
		RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		
		Size	Offset				Result		
QPSK	665.5	25	0	20	3.27	-0.930	-0.0014	-2.5 to 2.5	Pass
					3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
					4.43	-0.429	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.245	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	0.114	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.300	-0.0005	-2.5 to 2.5	Pass
				10	3.85	0.730	0.0011	-2.5 to 2.5	Pass
				30	3.85	1.216	0.0018	-2.5 to 2.5	Pass
				40	3.85	1.431	0.0022	-2.5 to 2.5	Pass
				50	3.85	1.688	0.0025	-2.5 to 2.5	Pass
	680.5	25	0	20	3.27	-0.072	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.286	-0.0004	-2.5 to 2.5	Pass
					4.43	0.458	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.830	0.0012	-2.5 to 2.5	Pass
				-10	3.85	0.243	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.730	0.0011	-2.5 to 2.5	Pass
				10	3.85	1.960	0.0029	-2.5 to 2.5	Pass
				30	3.85	1.731	0.0025	-2.5 to 2.5	Pass



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	695.5	25	0	40	3.85	1.745	0.0026	-2.5 to 2.5	Pass	
				50	3.85	0.601	0.0009	-2.5 to 2.5	Pass	
				20	3.27	0.873	0.0013	-2.5 to 2.5	Pass	
					3.85	2.117	0.0030	-2.5 to 2.5	Pass	
					4.43	1.359	0.0020	-2.5 to 2.5	Pass	
					-30	3.85	2.589	0.0037	-2.5 to 2.5	Pass
				-20	3.85	0.257	0.0004	-2.5 to 2.5	Pass	
					-10	3.85	1.488	0.0021	-2.5 to 2.5	Pass
					0	3.85	1.044	0.0015	-2.5 to 2.5	Pass
					10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
					30	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
					40	3.85	0.286	0.0004	-2.5 to 2.5	Pass
					50	3.85	1.230	0.0018	-2.5 to 2.5	Pass
16QAM	665.5	25	0	20	3.27	0.801	0.0012	-2.5 to 2.5	Pass	
					3.85	1.144	0.0017	-2.5 to 2.5	Pass	
					4.43	0.744	0.0011	-2.5 to 2.5	Pass	
					-30	3.85	-0.443	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.787	0.0012	-2.5 to 2.5	Pass	
					-10	3.85	0.587	0.0009	-2.5 to 2.5	Pass
					0	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
					10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
					30	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
					40	3.85	0.458	0.0007	-2.5 to 2.5	Pass
					50	3.85	-1.173	-0.0018	-2.5 to 2.5	Pass
	680.5	25	0	20	3.27	0.300	0.0004	-2.5 to 2.5	Pass	
					3.85	1.130	0.0017	-2.5 to 2.5	Pass	
					4.43	-0.186	-0.0003	-2.5 to 2.5	Pass	
					-30	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.601	0.0009	-2.5 to 2.5	Pass	
					-10	3.85	-0.186	-0.0003	-2.5 to 2.5	Pass
					0	3.85	-1.073	-0.0016	-2.5 to 2.5	Pass
					10	3.85	0.257	0.0004	-2.5 to 2.5	Pass
					30	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
					40	3.85	0.358	0.0005	-2.5 to 2.5	Pass
					50	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
	695.5	25	0	20	3.27	-0.429	-0.0006	-2.5 to 2.5	Pass	
					3.85	-0.772	-0.0011	-2.5 to 2.5	Pass	
					4.43	0.558	0.0008	-2.5 to 2.5	Pass	



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-30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
-20	3.85	0.629	0.0009	-2.5 to 2.5	Pass
-10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
0	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
30	3.85	-1.445	-0.0021	-2.5 to 2.5	Pass
40	3.85	0.200	0.0003	-2.5 to 2.5	Pass
50	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass

### 2.1.2 B71\_10MHz

Band: 71 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	668	50	0	20	3.27	0.958	0.0014	-2.5 to 2.5	Pass
					3.85	1.273	0.0019	-2.5 to 2.5	Pass
					4.43	-0.257	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.172	0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0012	-2.5 to 2.5	Pass
				40	3.85	0.558	0.0008	-2.5 to 2.5	Pass
QPSK	680.5	50	0	20	3.27	1.345	0.0020	-2.5 to 2.5	Pass
					3.85	1.130	0.0017	-2.5 to 2.5	Pass
					4.43	0.615	0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.243	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.472	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
QPSK	693	50	0	20	3.27	-1.087	-0.0016	-2.5 to 2.5	Pass
					3.85	-1.144	-0.0017	-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	-2.160	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-1.373	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-1.574	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-1.245	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
16QAM	668	50	0	20	3.27	-1.230	-0.0018	-2.5 to 2.5	Pass
					3.85	0.100	0.0001	-2.5 to 2.5	Pass
					4.43	-0.114	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.172	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				30	3.85	0.587	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				50	3.85	0.100	0.0001	-2.5 to 2.5	Pass
	680.5	50	0	20	3.27	0.057	0.0001	-2.5 to 2.5	Pass
					3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
					4.43	-0.300	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.658	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
				0	3.85	0.873	0.0013	-2.5 to 2.5	Pass
				10	3.85	0.458	0.0007	-2.5 to 2.5	Pass
				30	3.85	-0.515	-0.0008	-2.5 to 2.5	Pass
				40	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
	693	50	0	20	3.27	-0.873	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
					4.43	-1.087	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass



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				10	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-1.917	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-2.017	-0.0029	-2.5 to 2.5	Pass

### 2.1.3 B71\_15MHz

Modulation	Frequency (MHz)	Band: 71 / Bandwidth: 15MHz							
		RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	670.5	75	0	20	3.27	-0.787	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
					4.43	-0.501	-0.0007	-2.5 to 2.5	Pass
				-30	3.85	-0.644	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	0.315	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.186	0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.529	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.572	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.515	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
	680.5	75	0	20	3.27	-0.472	-0.0007	-2.5 to 2.5	Pass
					3.85	-1.631	-0.0024	-2.5 to 2.5	Pass
					4.43	-0.415	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.315	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				10	3.85	-0.315	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
	690.5	75	0	20	3.27	-0.415	-0.0006	-2.5 to 2.5	Pass
					3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.887	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-0.658	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass



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				0	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				30	3.85	0.215	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
16QAM	670.5	75	0	20	3.27	-0.486	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.930	-0.0014	-2.5 to 2.5	Pass
					4.43	-0.629	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.343	0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-1.001	-0.0015	-2.5 to 2.5	Pass
				0	3.85	0.601	0.0009	-2.5 to 2.5	Pass
				10	3.85	-0.587	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.458	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.801	-0.0012	-2.5 to 2.5	Pass
				50	3.85	0.415	0.0006	-2.5 to 2.5	Pass
	680.5	75	0	20	3.27	-0.815	-0.0012	-2.5 to 2.5	Pass
					3.85	-1.745	-0.0026	-2.5 to 2.5	Pass
					4.43	-1.516	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-1.144	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.287	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-0.858	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-1.287	-0.0019	-2.5 to 2.5	Pass
	690.5	75	0	20	3.27	-0.315	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
					4.43	-0.157	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				50	3.85	0.601	0.0009	-2.5 to 2.5	Pass



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**2.1.4 B71\_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	-1.130	-0.0017	-2.5 to 2.5	Pass
					3.85	-0.014	0.0000	-2.5 to 2.5	Pass
					4.43	-0.272	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-1.230	-0.0018	-2.5 to 2.5	Pass
				0	3.85	0.401	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.858	0.0013	-2.5 to 2.5	Pass
				30	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				50	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
	683	100	0	20	3.27	-0.186	-0.0003	-2.5 to 2.5	Pass
					3.85	0.057	0.0001	-2.5 to 2.5	Pass
					4.43	-0.072	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-1.001	-0.0015	-2.5 to 2.5	Pass
				10	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				40	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
	688	100	0	20	3.27	-0.758	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
					4.43	-1.330	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.302	-0.0019	-2.5 to 2.5	Pass
				-20	3.85	-0.587	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.587	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				40	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass



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				50	3.85	-1.044	-0.0015	-2.5 to 2.5	Pass	
16QAM	673	100	0	20	3.27	0.100	0.0001	-2.5 to 2.5	Pass	
					3.85	-0.529	-0.0008	-2.5 to 2.5	Pass	
					4.43	0.186	0.0003	-2.5 to 2.5	Pass	
					-30	3.85	-0.372	-0.0006	-2.5 to 2.5	Pass
					-20	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-1.087	-0.0016	-2.5 to 2.5	Pass	
					0	-0.772	-0.0011	-2.5 to 2.5	Pass	
					10	-0.472	-0.0007	-2.5 to 2.5	Pass	
					30	-0.200	-0.0003	-2.5 to 2.5	Pass	
					40	-0.358	-0.0005	-2.5 to 2.5	Pass	
					50	3.85	0.172	0.0003	-2.5 to 2.5	Pass
	683	100	0	20	3.27	-1.202	-0.0018	-2.5 to 2.5	Pass	
					3.85	0.701	0.0010	-2.5 to 2.5	Pass	
					4.43	-0.229	-0.0003	-2.5 to 2.5	Pass	
					-30	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
					-20	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass	
					0	-0.358	-0.0005	-2.5 to 2.5	Pass	
					10	-1.044	-0.0015	-2.5 to 2.5	Pass	
					30	-0.443	-0.0006	-2.5 to 2.5	Pass	
					40	0.100	0.0001	-2.5 to 2.5	Pass	
					50	-0.172	-0.0003	-2.5 to 2.5	Pass	
	688	100	0	20	3.27	-0.772	-0.0011	-2.5 to 2.5	Pass	
					3.85	-0.386	-0.0006	-2.5 to 2.5	Pass	
					4.43	-1.559	-0.0023	-2.5 to 2.5	Pass	
					-30	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
					-20	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass	
					0	-1.388	-0.0020	-2.5 to 2.5	Pass	
					10	-0.615	-0.0009	-2.5 to 2.5	Pass	
					30	-0.486	-0.0007	-2.5 to 2.5	Pass	
					40	-0.873	-0.0013	-2.5 to 2.5	Pass	
					50	-0.501	-0.0007	-2.5 to 2.5	Pass	

### 3. 99% & 26dB Bandwidth



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### 3.1 Test Result

#### 3.1.1 Band71\_OBW

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	4.565	/	Pass
		680.5	25	0	4.572	/	Pass
		695.5	25	0	4.568	/	Pass
	16QAM	665.5	25	0	4.573	/	Pass
		680.5	25	0	4.582	/	Pass
		695.5	25	0	4.556	/	Pass
10	QPSK	668	50	0	9.078	/	Pass
		680.5	50	0	9.085	/	Pass
		693	50	0	9.059	/	Pass
	16QAM	668	50	0	9.054	/	Pass
		680.5	50	0	9.078	/	Pass
		693	50	0	9.049	/	Pass
15	QPSK	670.5	75	0	13.542	/	Pass
		680.5	75	0	13.595	/	Pass
		690.5	75	0	13.533	/	Pass
	16QAM	670.5	75	0	13.531	/	Pass
		680.5	75	0	13.617	/	Pass
		690.5	75	0	13.547	/	Pass
20	QPSK	673	100	0	18.016	/	Pass
		683	100	0	18.122	/	Pass
		688	100	0	17.918	/	Pass
	16QAM	673	100	0	18.046	/	Pass
		683	100	0	18.060	/	Pass
		688	100	0	18.038	/	Pass

#### 3.1.2 Band71\_XDB

Band: 71 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	5.301	/	Pass



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	16QAM	680.5	25	0	5.265	/	Pass
		695.5	25	0	5.148	/	Pass
		665.5	25	0	5.238	/	Pass
		680.5	25	0	5.298	/	Pass
		695.5	25	0	5.282	/	Pass
		668	50	0	10.186	/	Pass
10	QPSK	680.5	50	0	10.183	/	Pass
		693	50	0	10.160	/	Pass
		668	50	0	10.187	/	Pass
	16QAM	680.5	50	0	10.351	/	Pass
		693	50	0	10.122	/	Pass
		670.5	75	0	15.100	/	Pass
15	QPSK	680.5	75	0	15.252	/	Pass
		690.5	75	0	15.233	/	Pass
		670.5	75	0	15.163	/	Pass
	16QAM	680.5	75	0	15.136	/	Pass
		690.5	75	0	15.098	/	Pass
		673	100	0	19.966	/	Pass
20	QPSK	683	100	0	20.100	/	Pass
		688	100	0	19.965	/	Pass
		673	100	0	19.837	/	Pass
	16QAM	683	100	0	20.105	/	Pass
		688	100	0	19.938	/	Pass



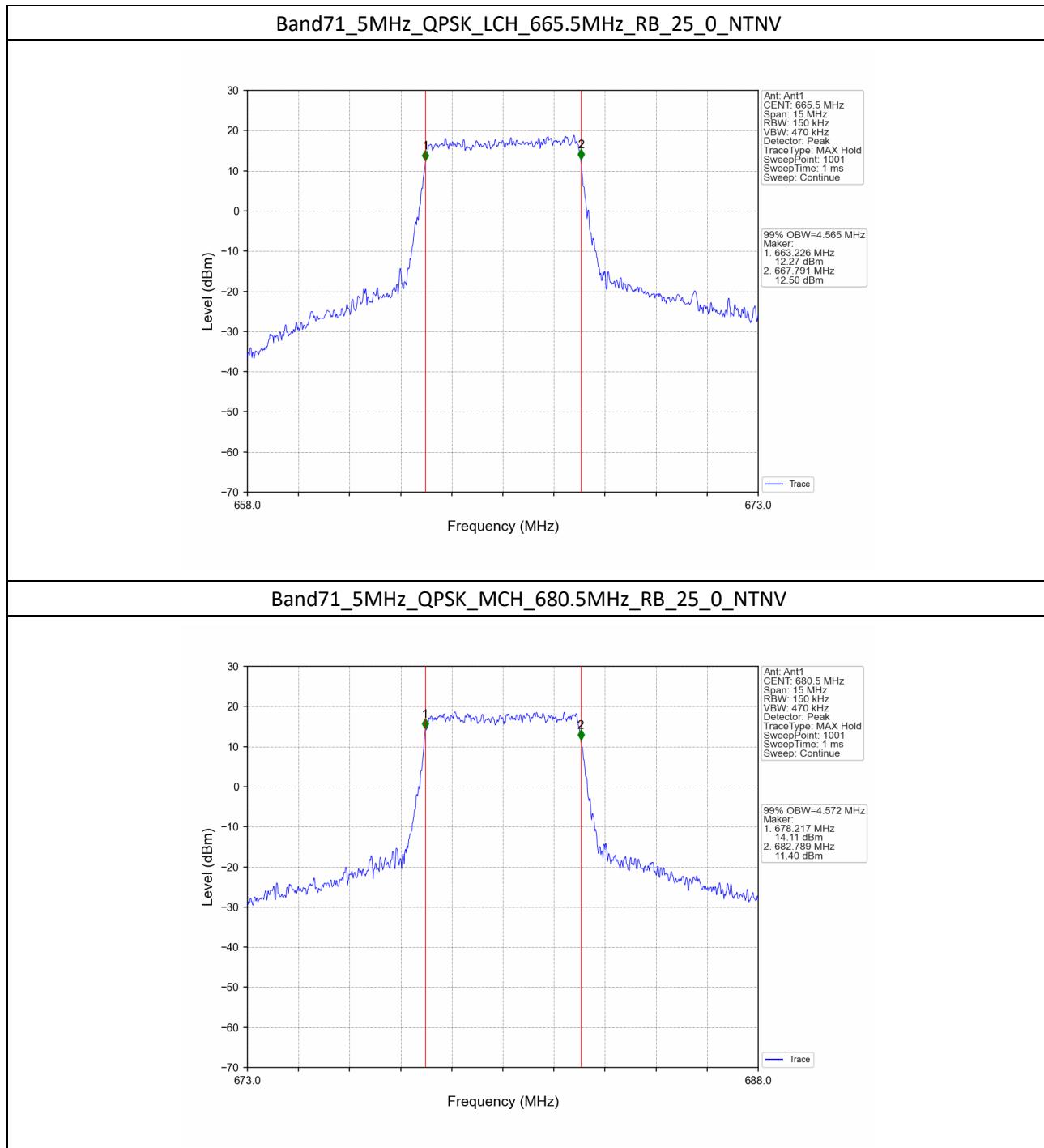
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## 3.2 Test Graph

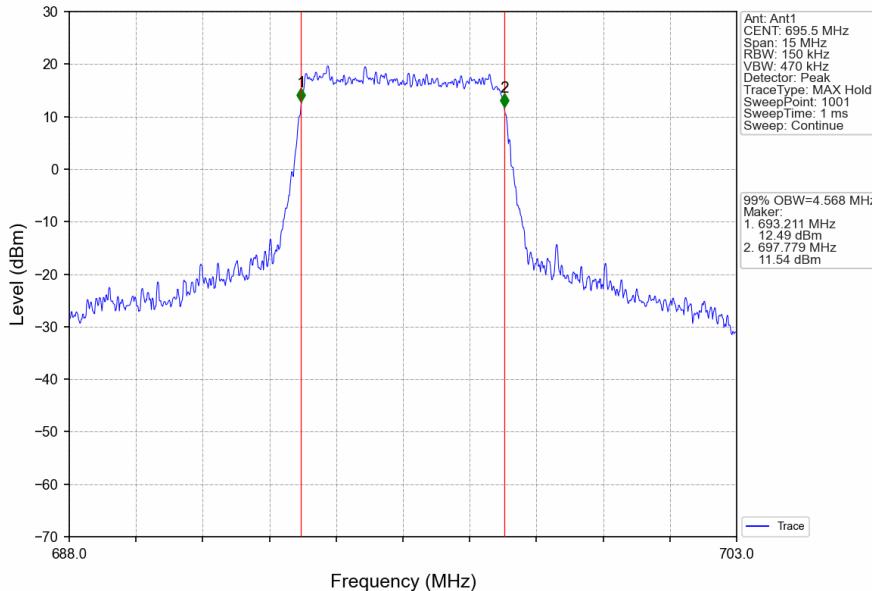
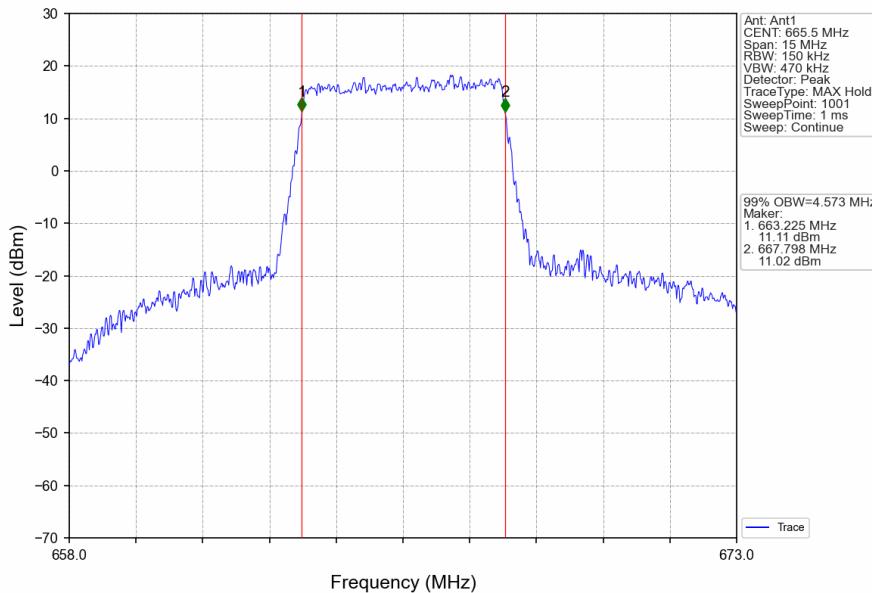
### 3.2.1 Band71\_OBW



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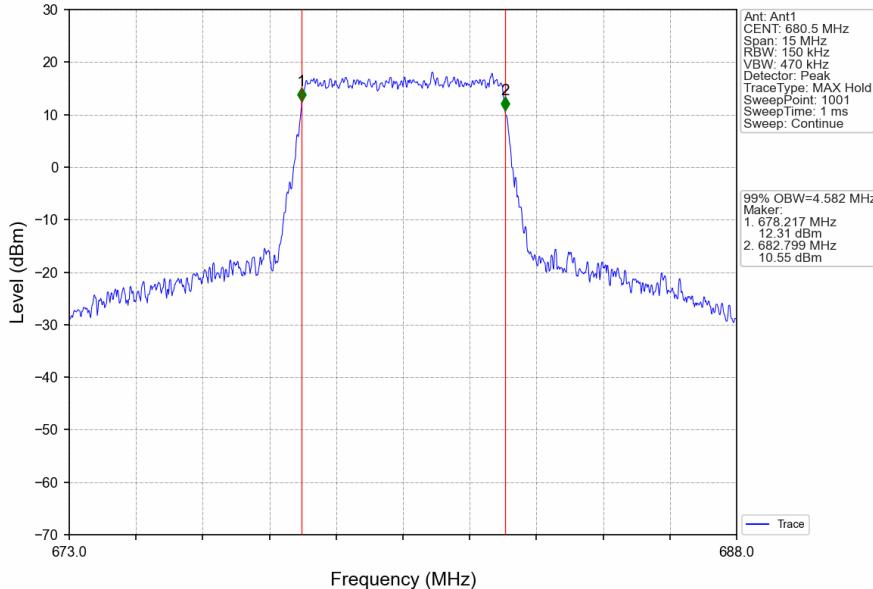
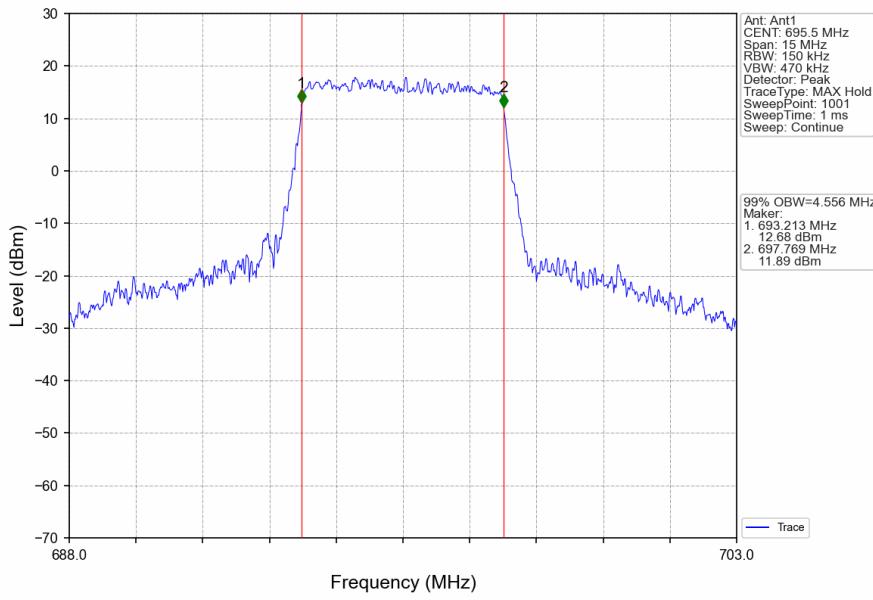
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**Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV****Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV**

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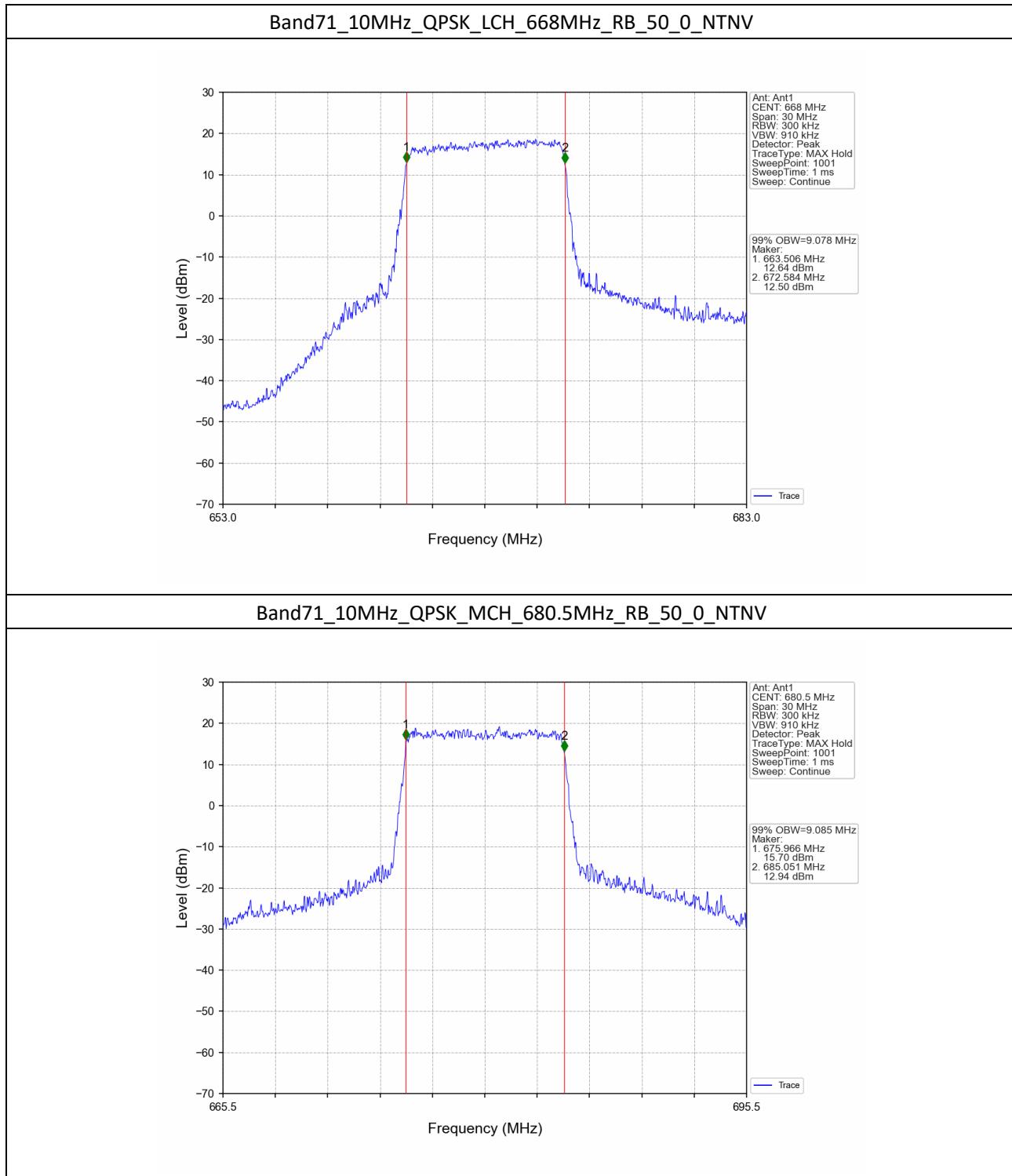
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**Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV****Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV**

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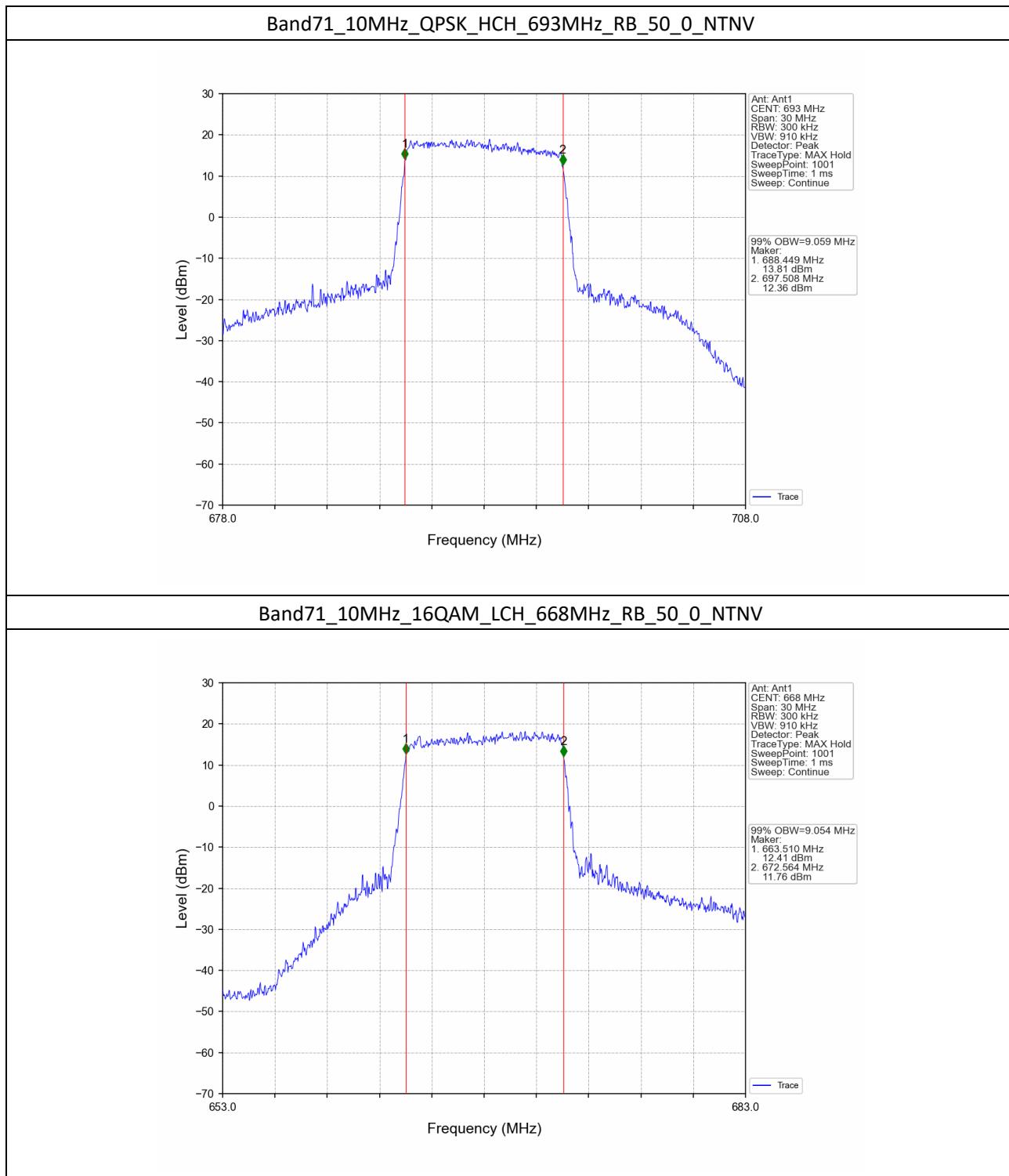
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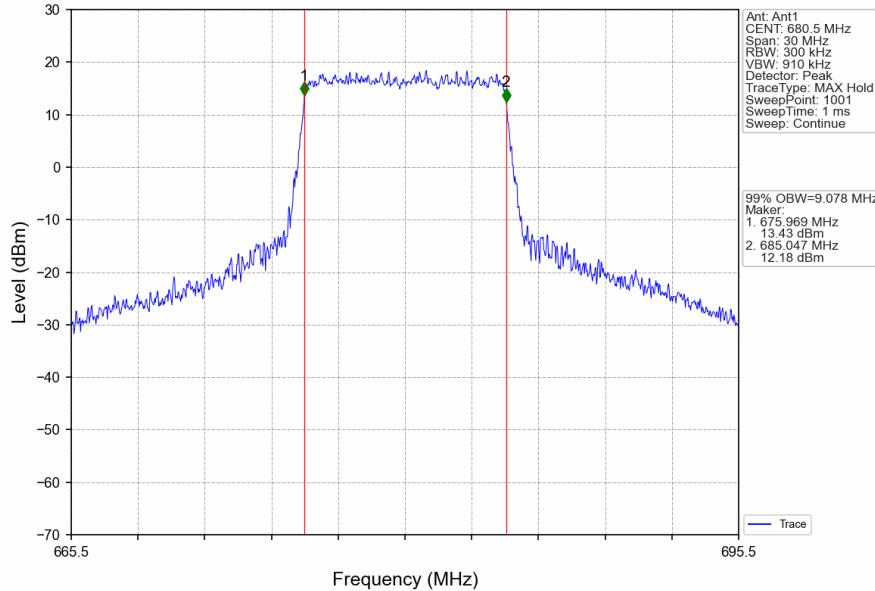
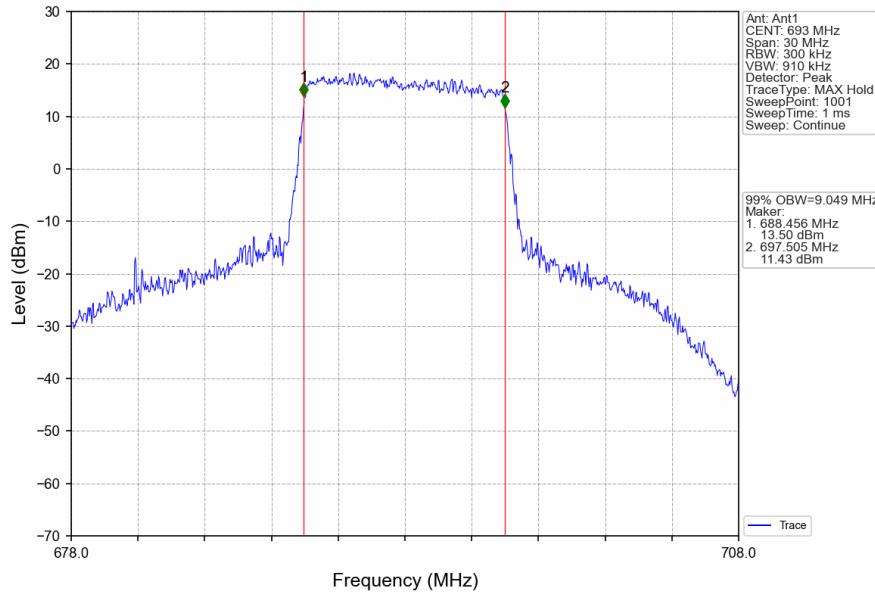
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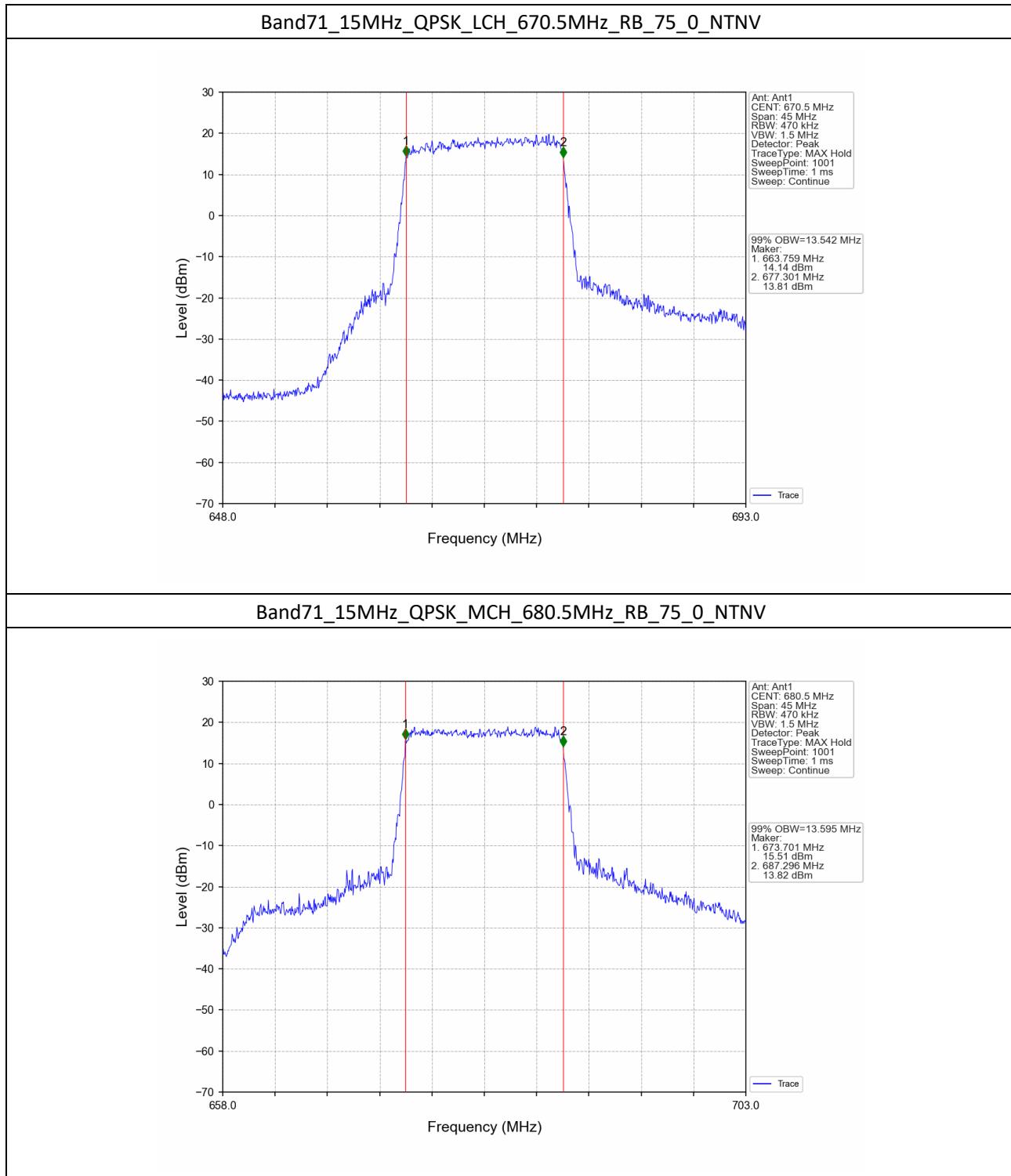
**Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV****Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV**

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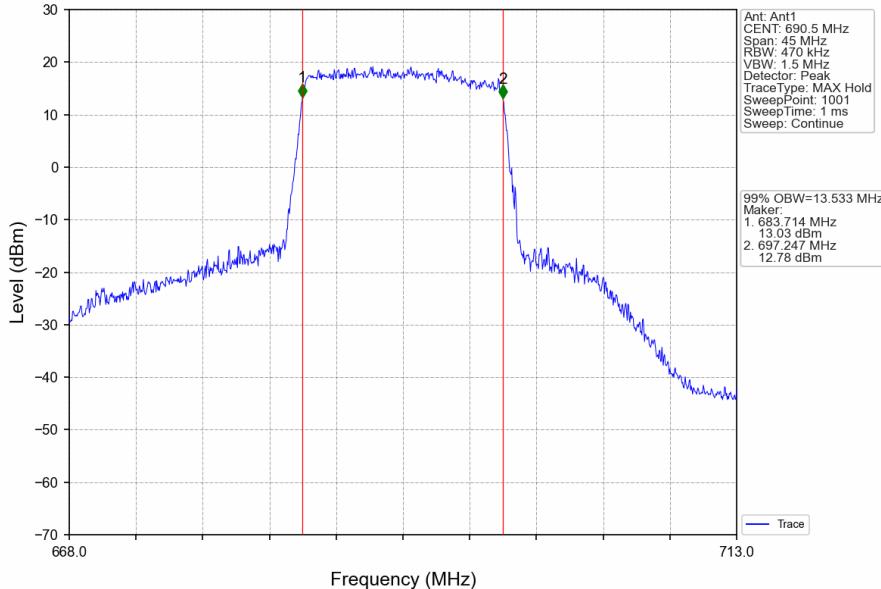
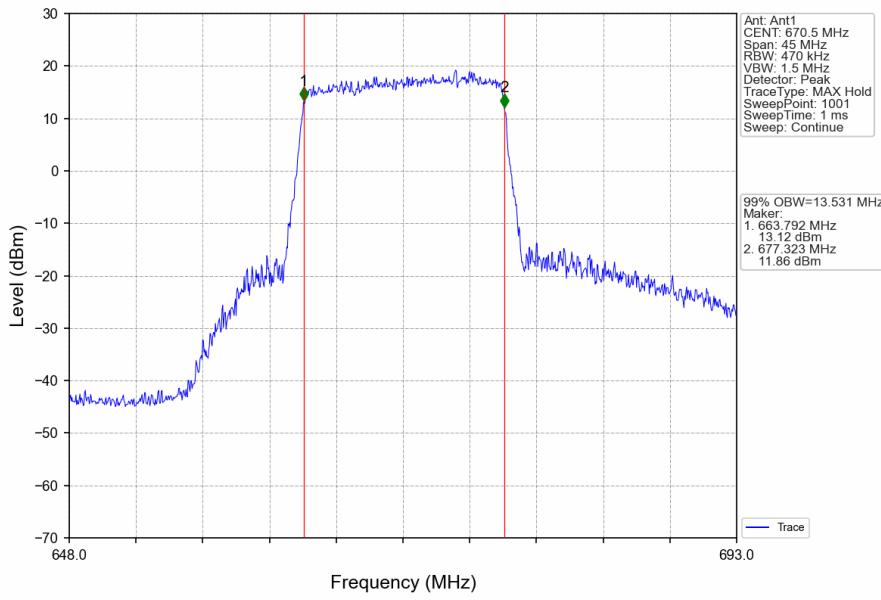
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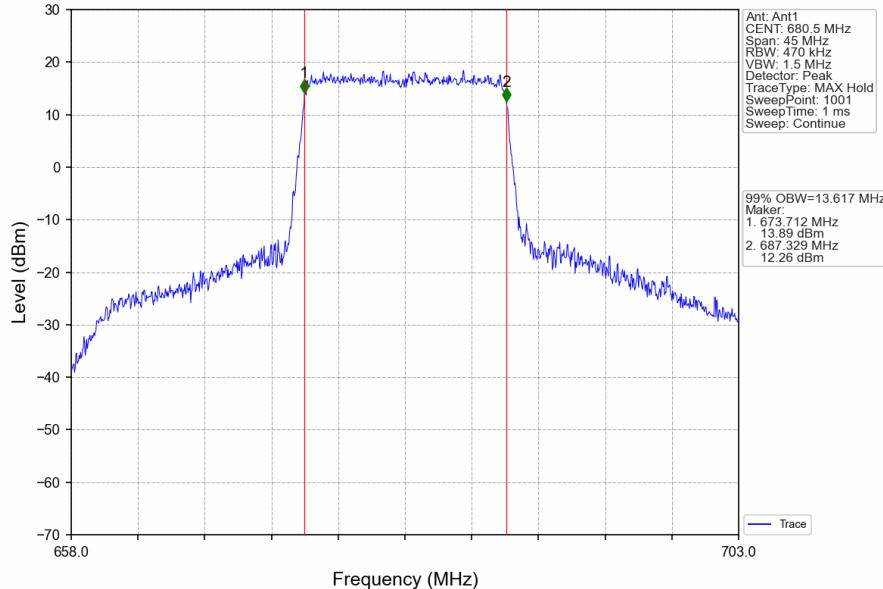
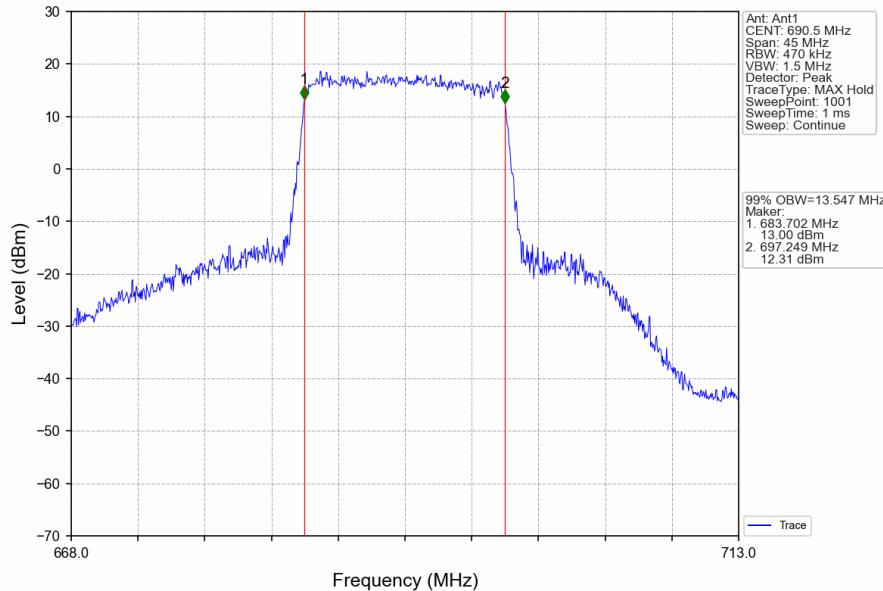
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**Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV****Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV**

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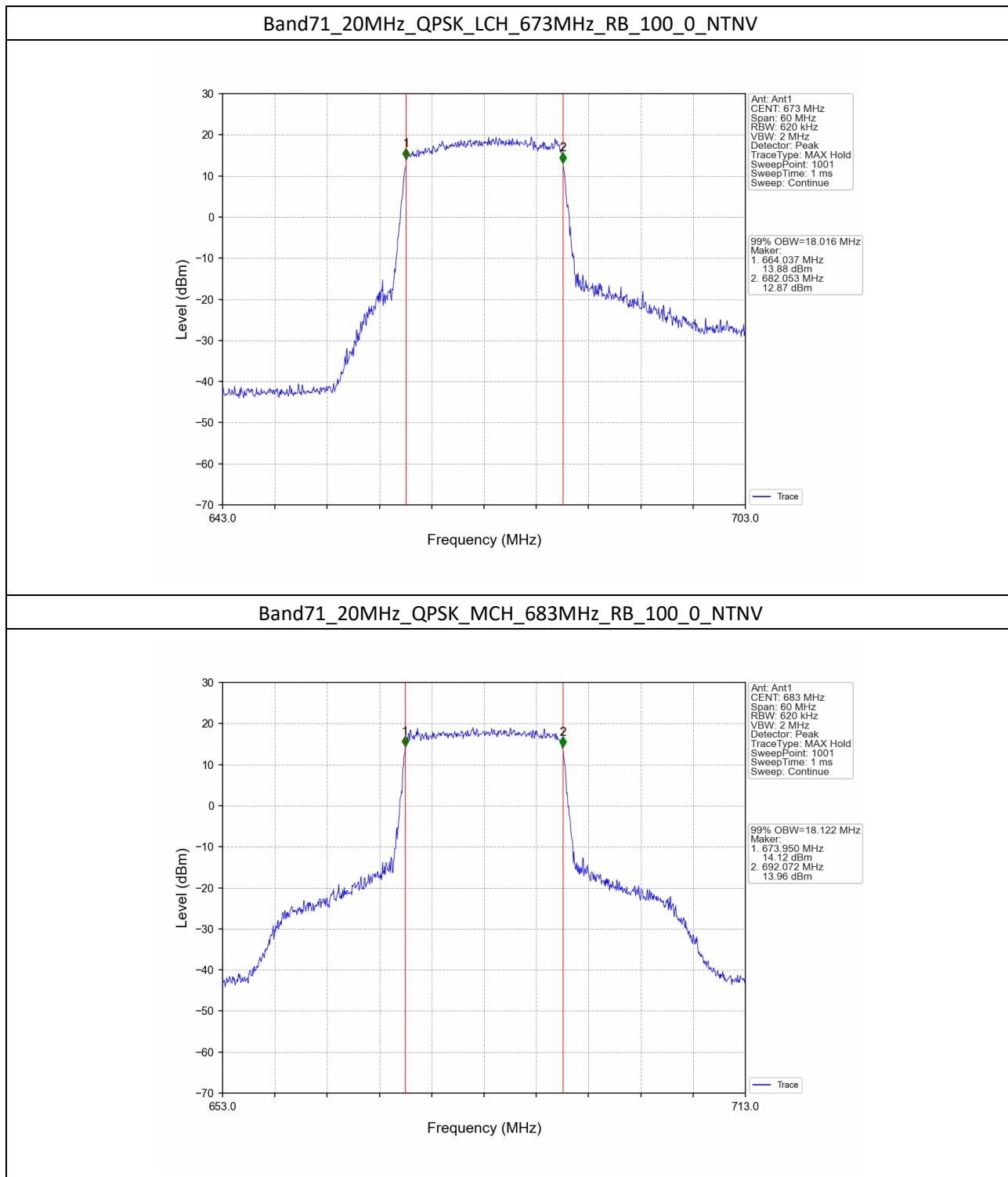
**Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV****Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV**

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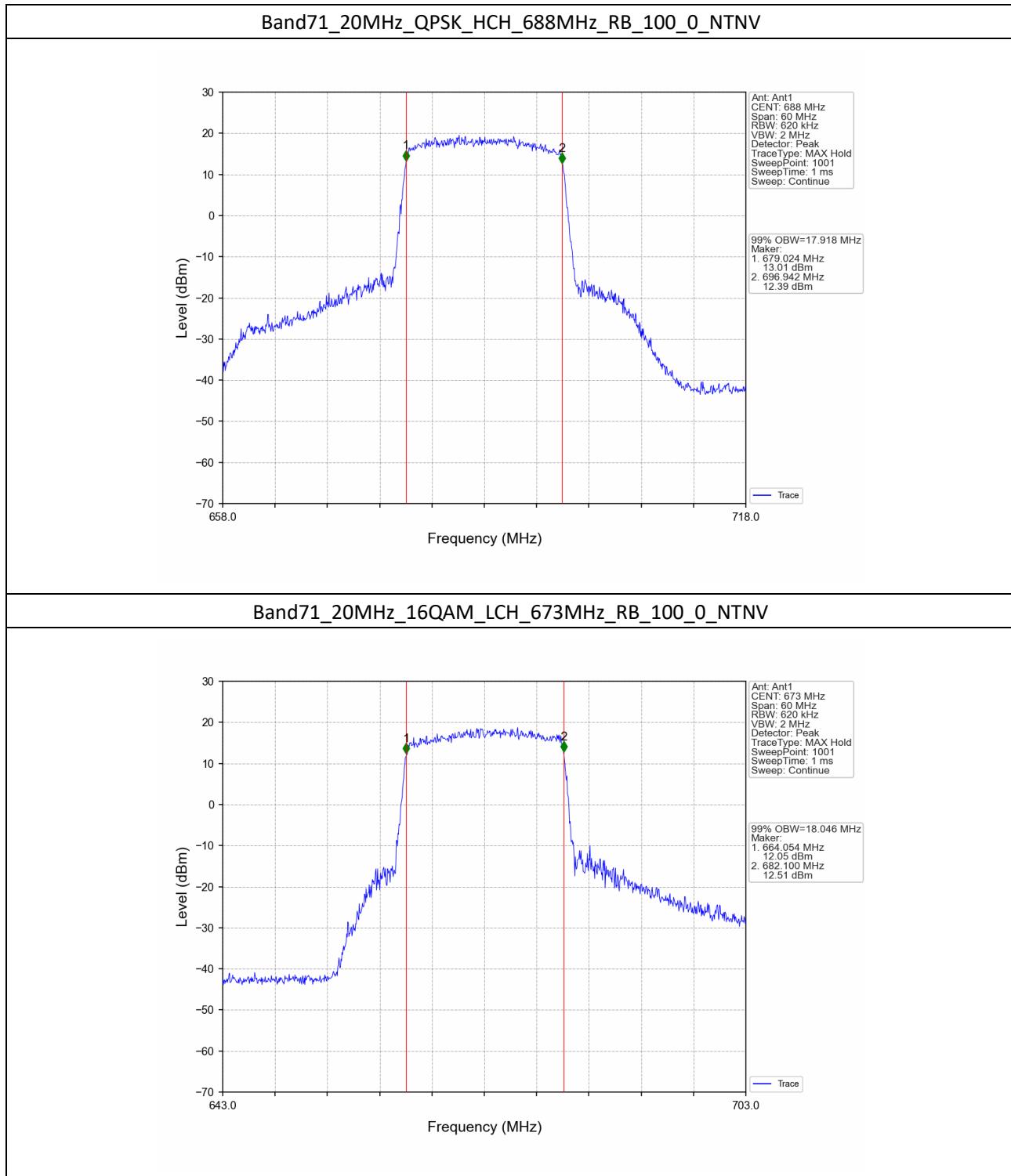




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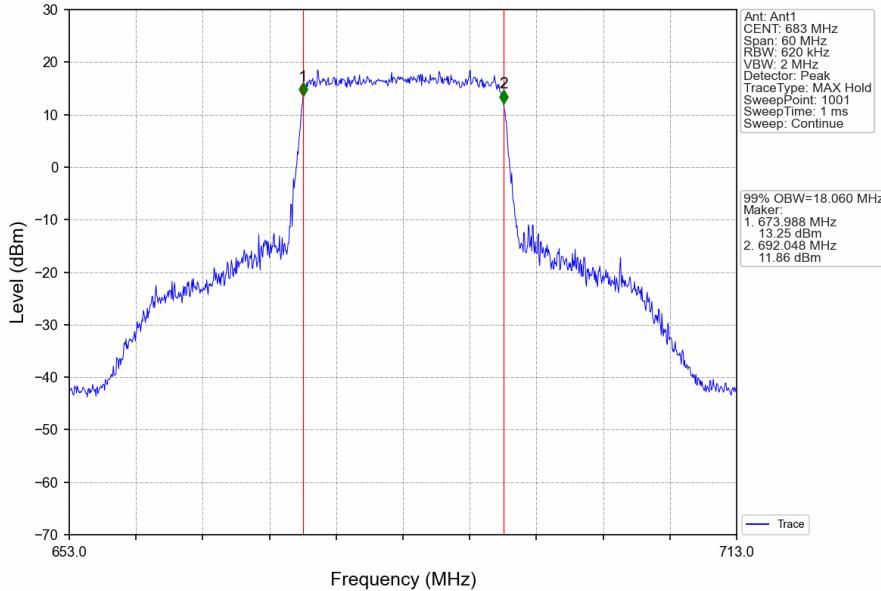
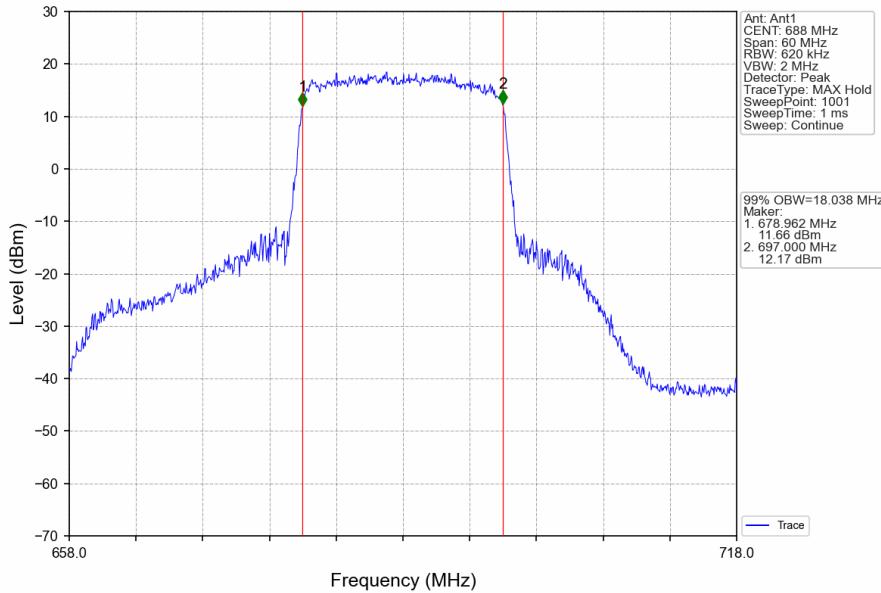


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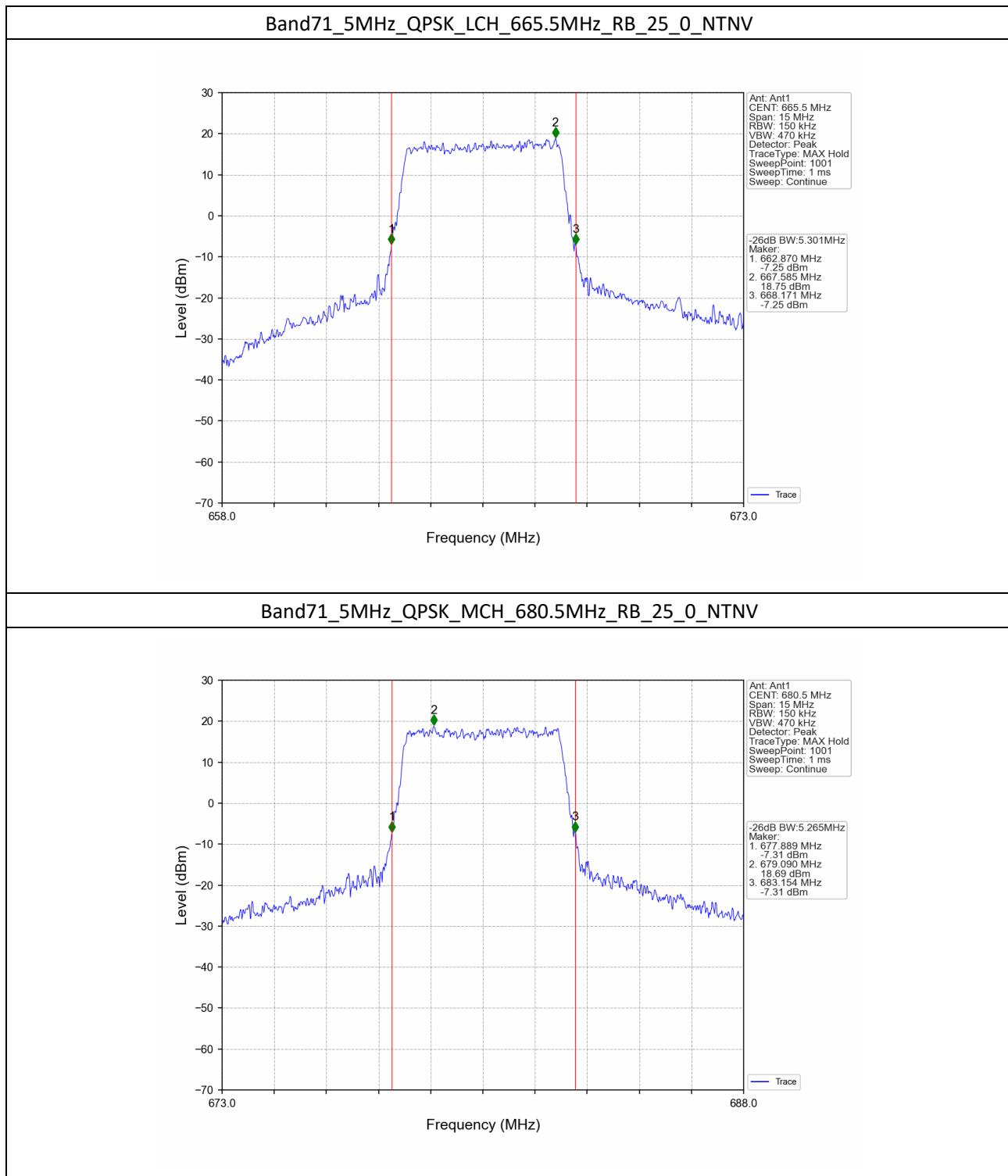
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**Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV****Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV**

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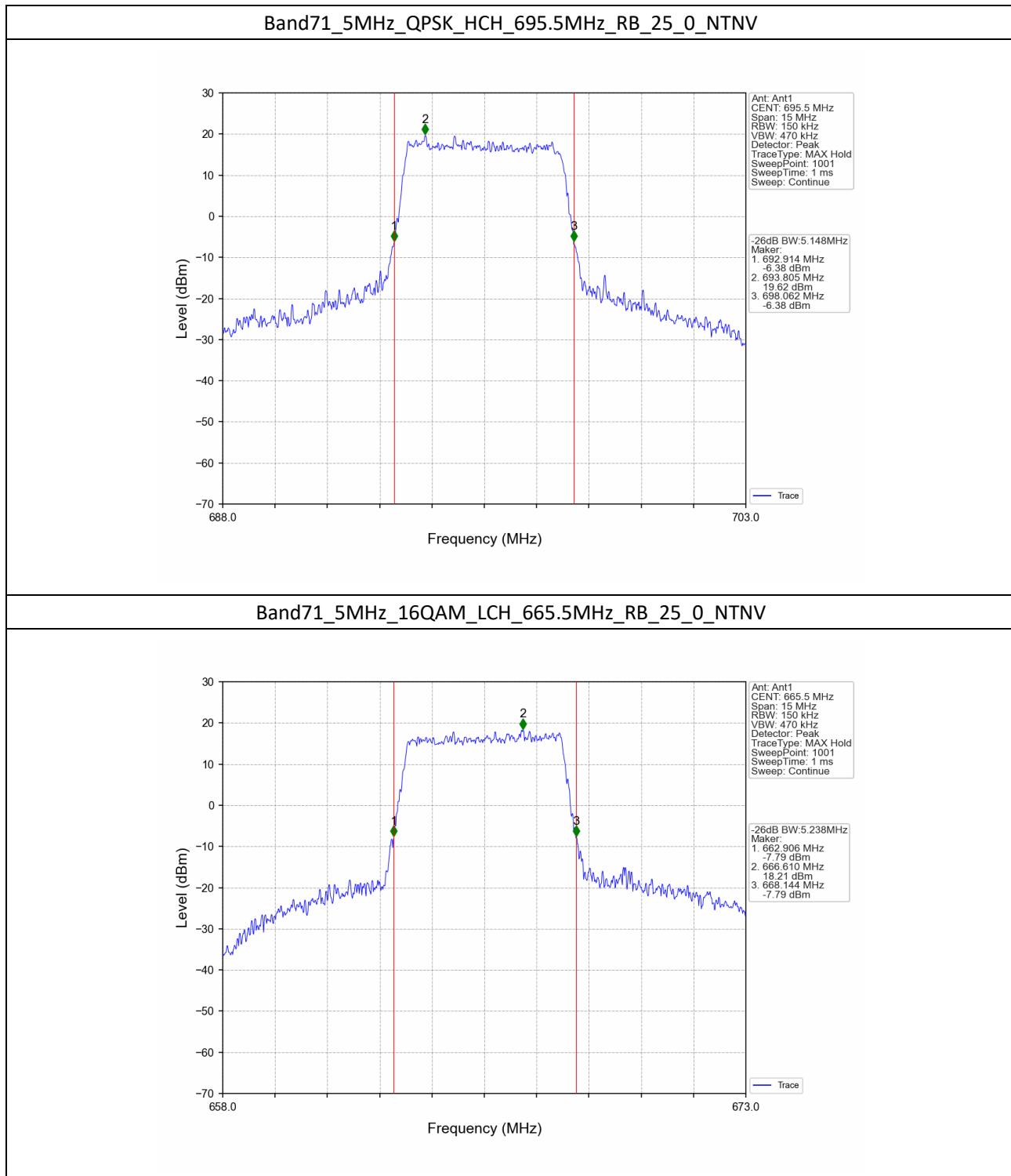
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**3.2.2 Band71\_XDB**

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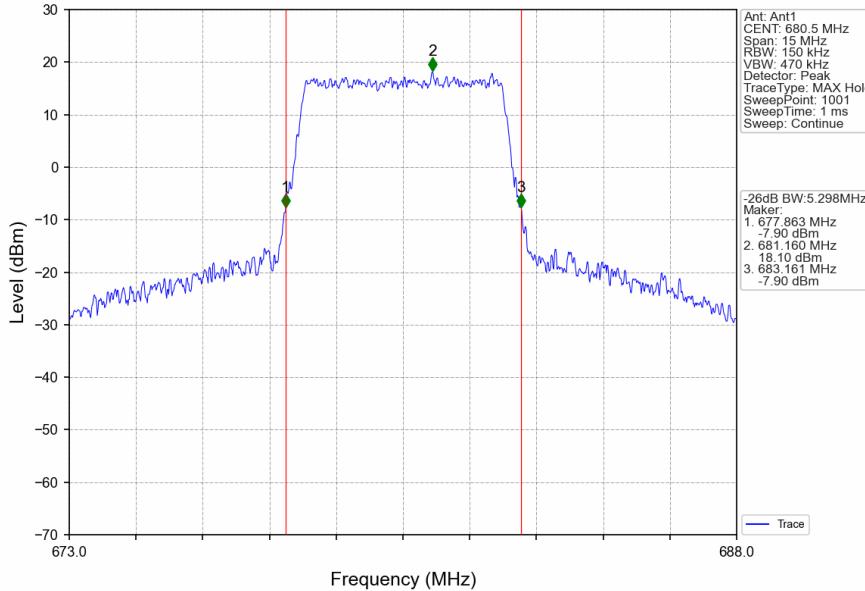
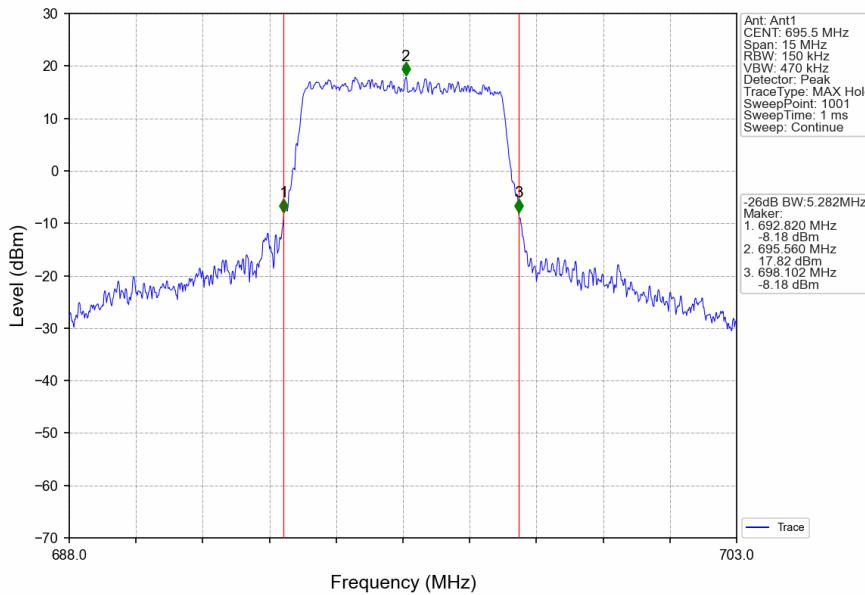


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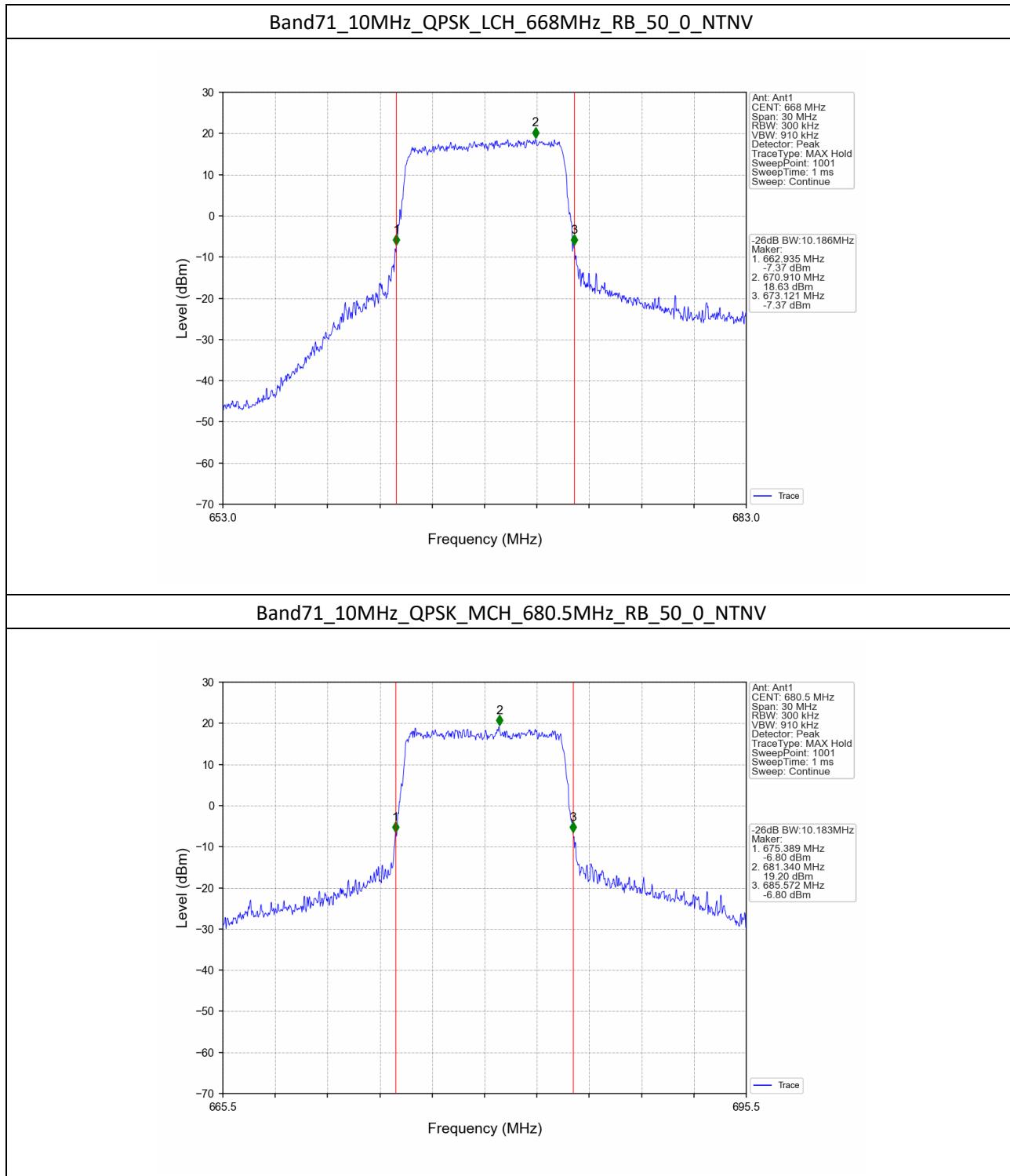
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**Band71\_5MHz\_16QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV****Band71\_5MHz\_16QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV**

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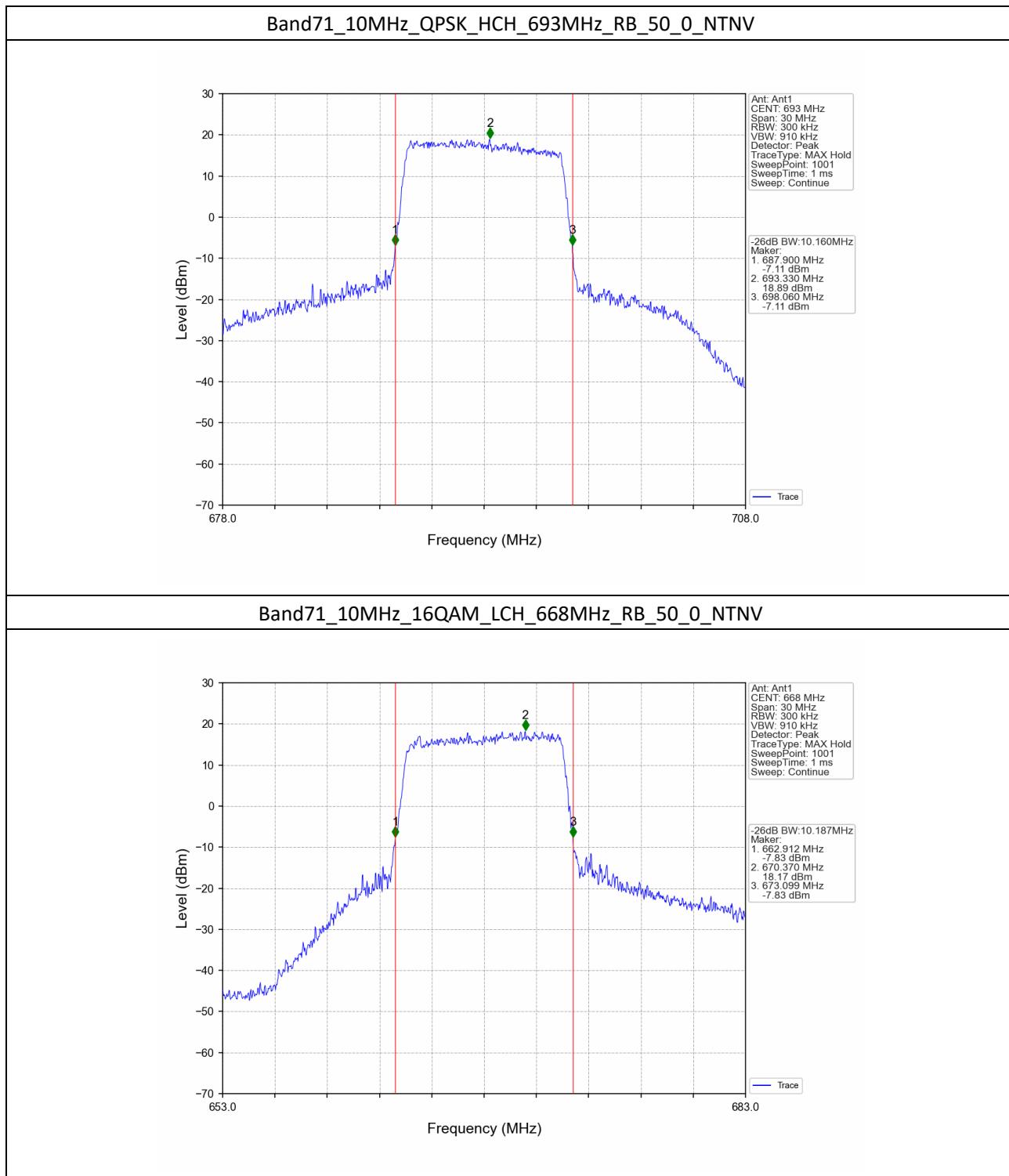
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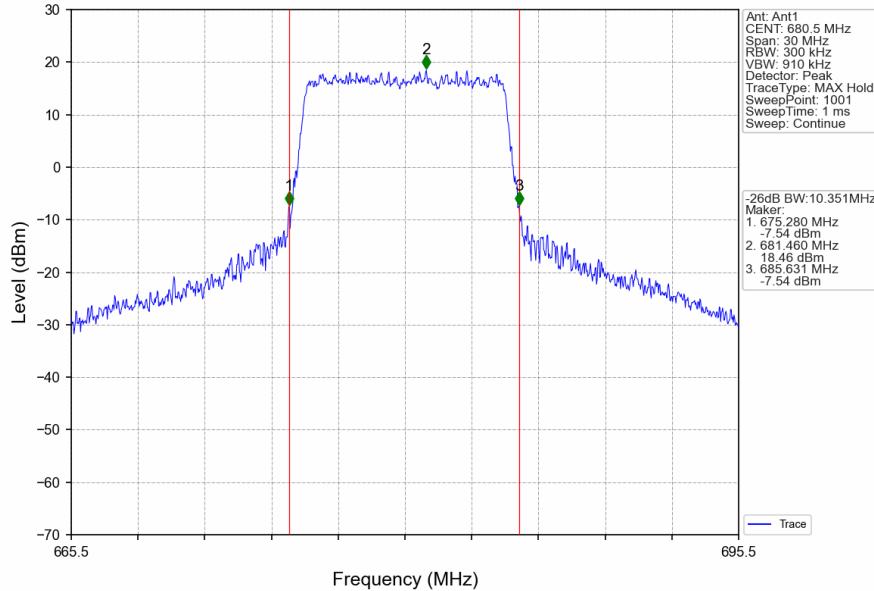
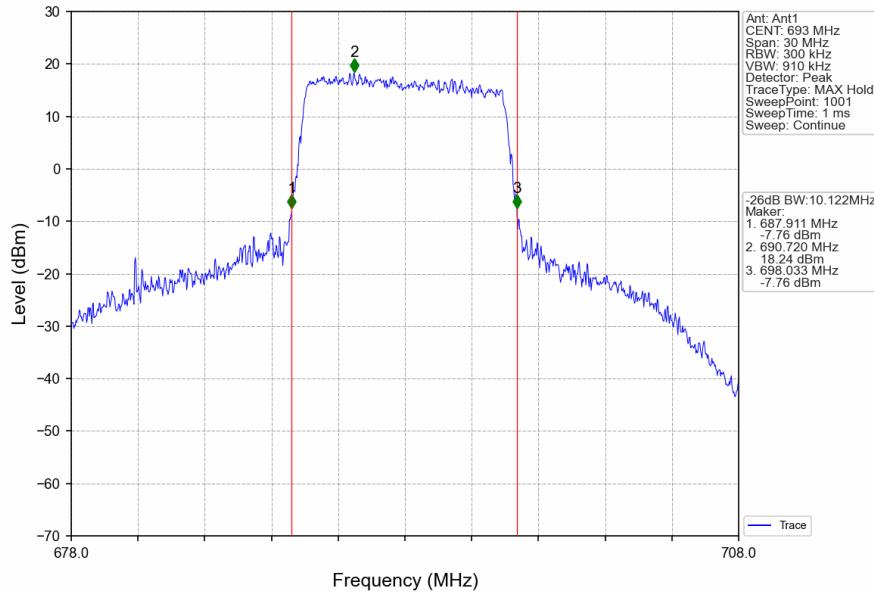
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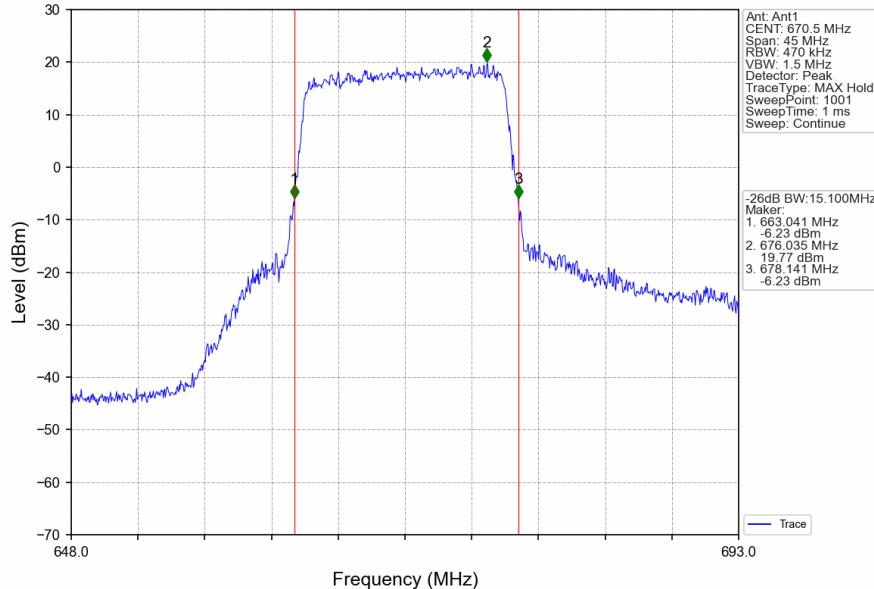
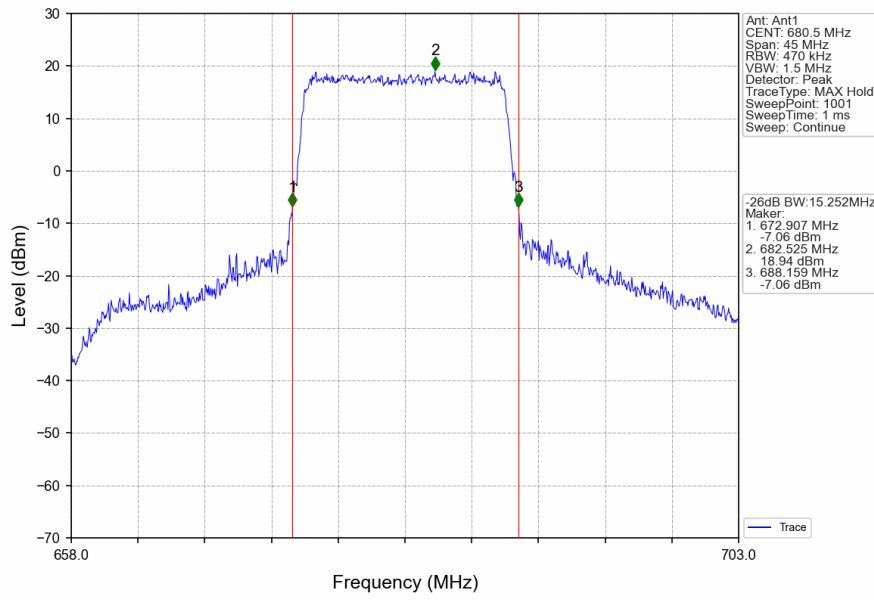
**Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV****Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV**

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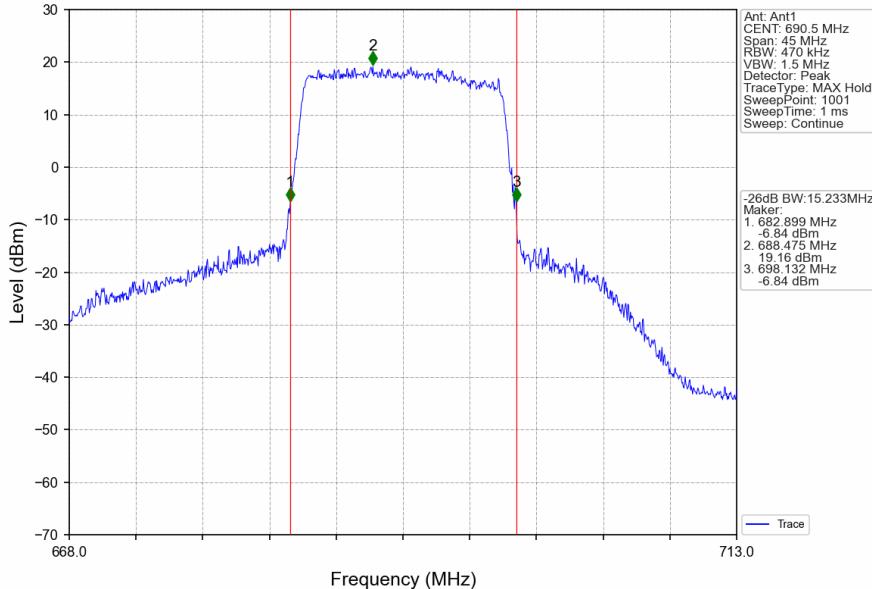
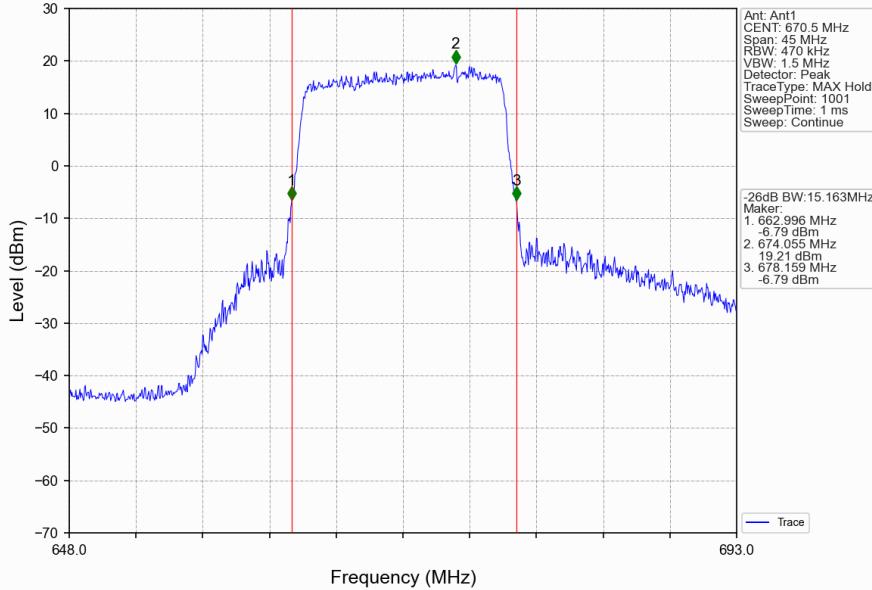
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**Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV****Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_75\_0\_NTNV**

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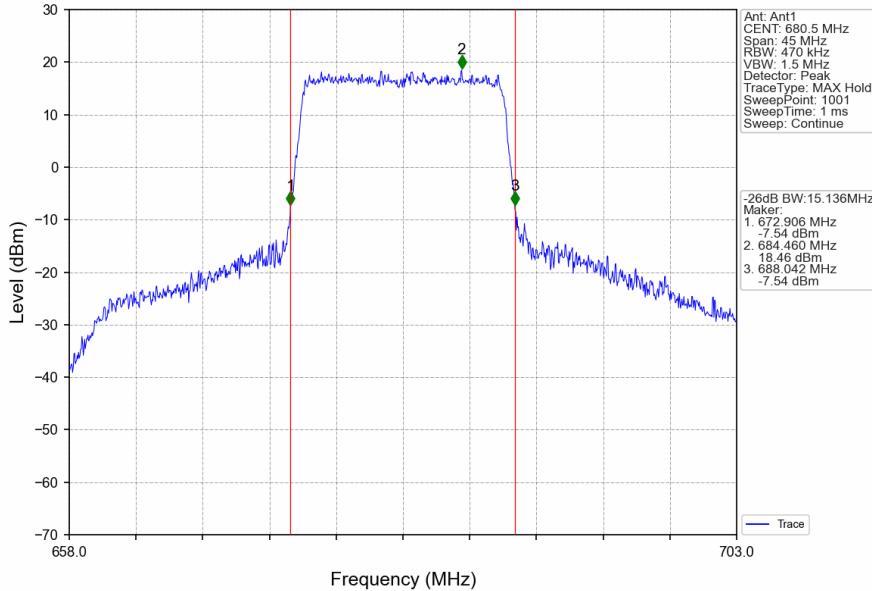
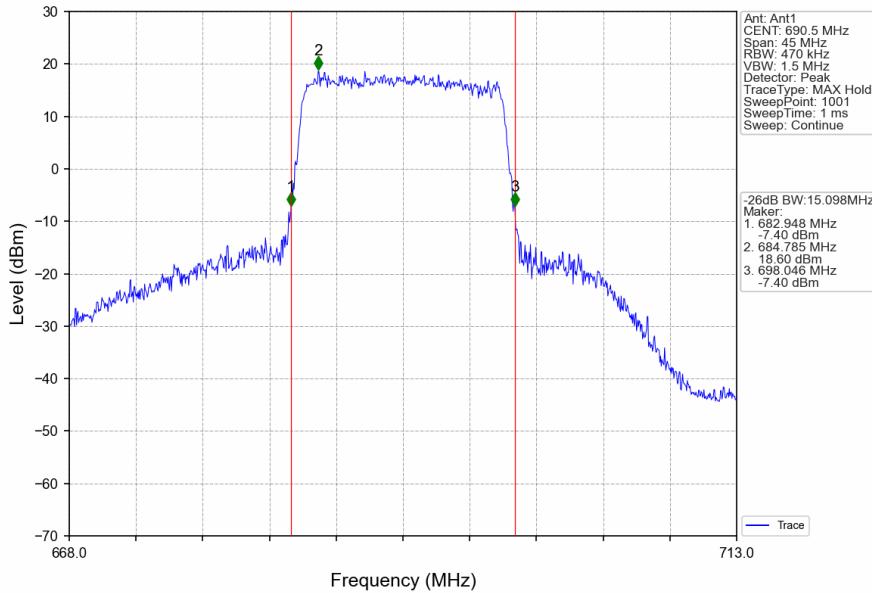
**Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV****Band71\_15MHz\_16QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV**

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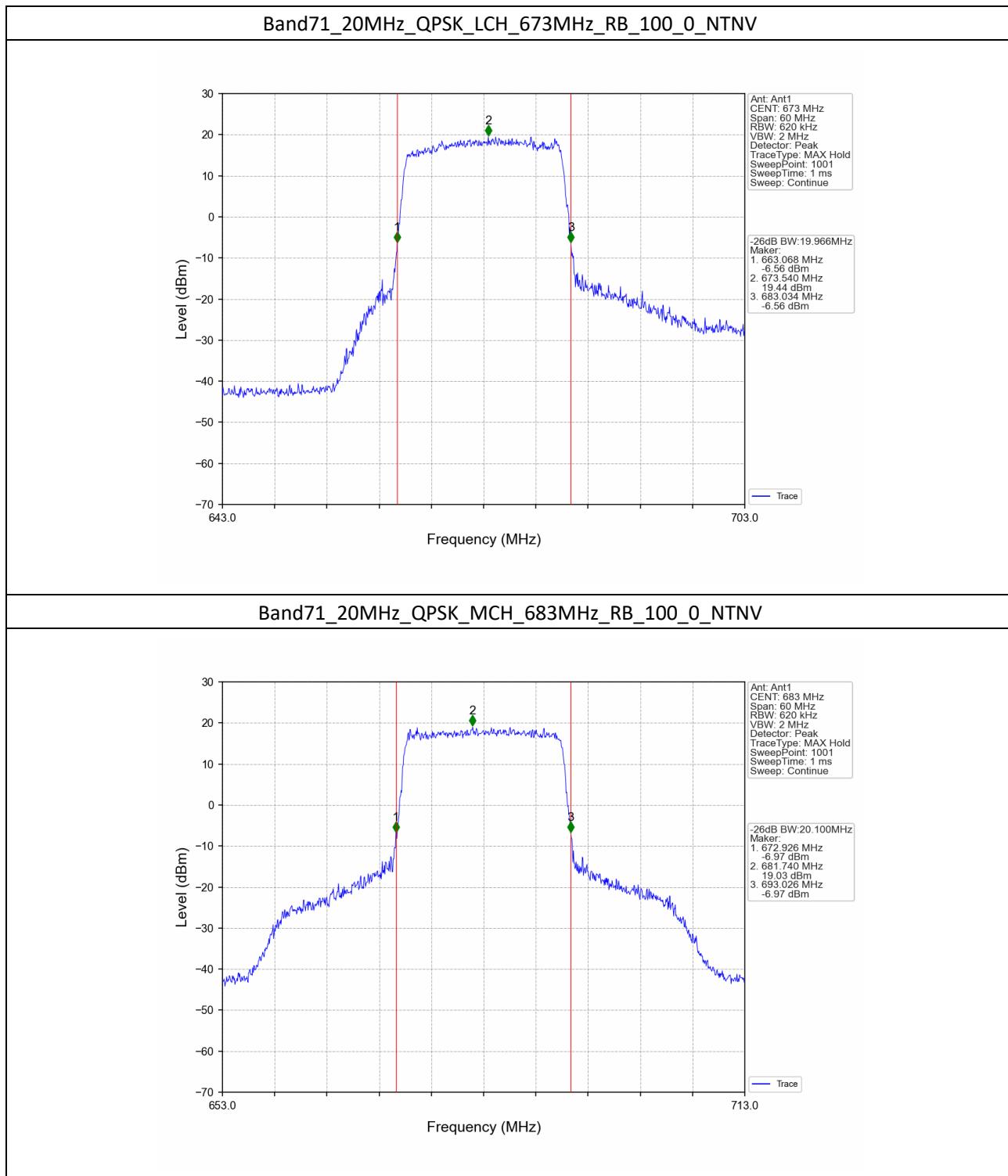
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**Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV****Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV**

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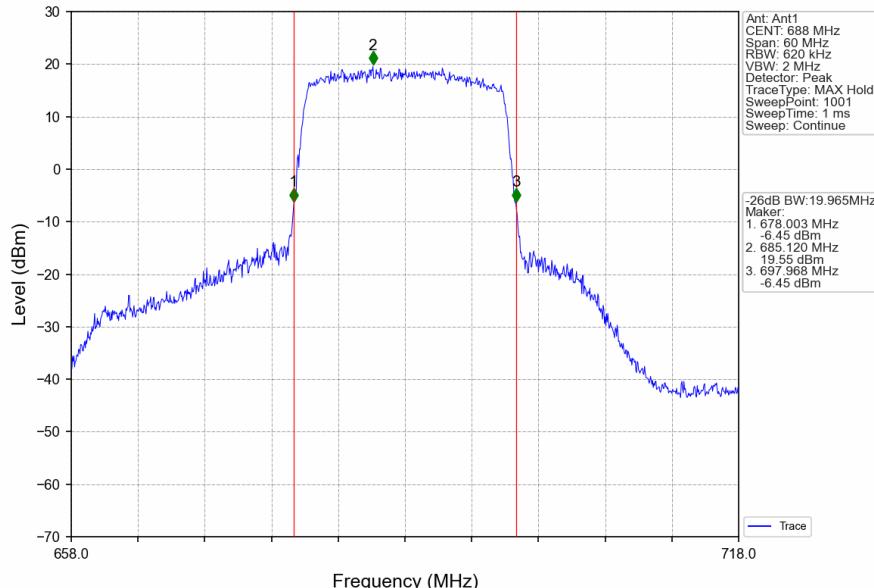
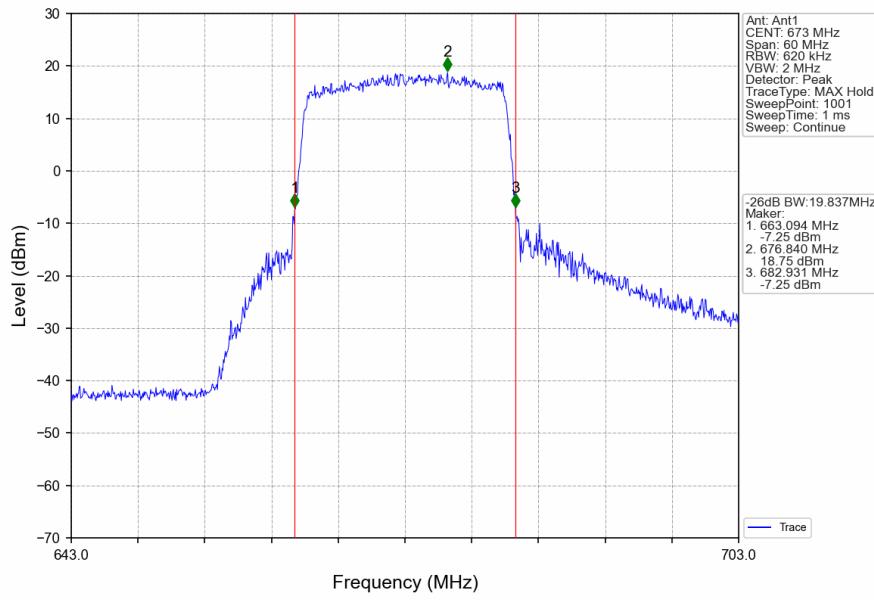
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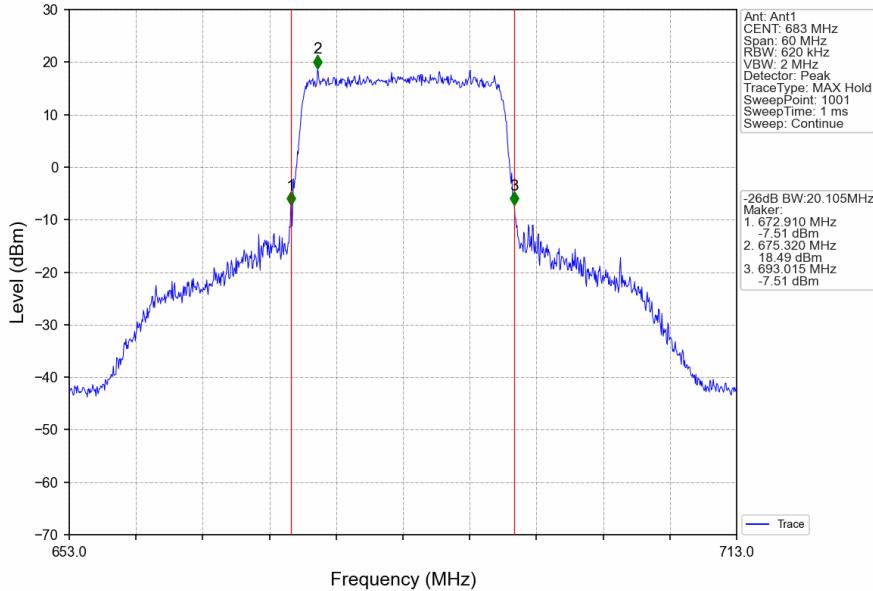
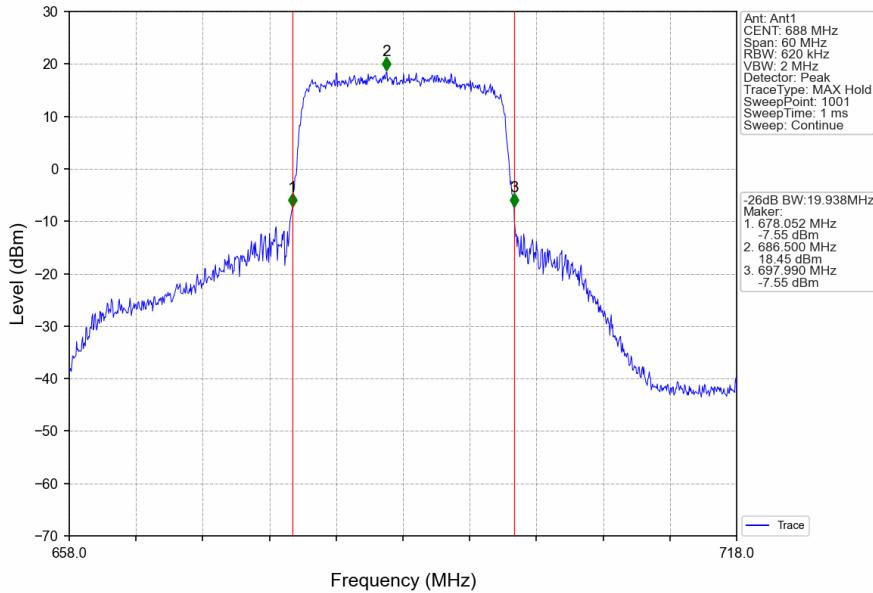
**Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV****Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV**

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**Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV****Band71\_20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV**

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## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B71\_5MHz

Band: 71 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	25	0	5.63	<=13	Pass
	680.5	25	0	5.41	<=13	Pass
	695.5	25	0	5.33	<=13	Pass
16QAM	665.5	25	0	6.49	<=13	Pass
	680.5	25	0	6.26	<=13	Pass
	695.5	25	0	6.17	<=13	Pass

#### 4.1.2 B71\_10MHz

Band: 71 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	668	50	0	5.54	<=13	Pass
	680.5	50	0	5.37	<=13	Pass
	693	50	0	5.03	<=13	Pass
16QAM	668	50	0	6.40	<=13	Pass
	680.5	50	0	6.22	<=13	Pass
	693	50	0	5.89	<=13	Pass

#### 4.1.3 B71\_15MHz

Band: 71 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	75	0	5.56	<=13	Pass
	680.5	75	0	5.39	<=13	Pass
	690.5	75	0	5.06	<=13	Pass
16QAM	670.5	75	0	6.37	<=13	Pass



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	680.5	75	0	6.21	<=13	Pass
	690.5	75	0	5.86	<=13	Pass

**4.1.4 B71\_20MHz**

Band: 71 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	673	100	0	5.30	<=13	Pass
	683	100	0	5.15	<=13	Pass
	688	100	0	4.99	<=13	Pass
16QAM	673	100	0	6.25	<=13	Pass
	683	100	0	6.04	<=13	Pass
	688	100	0	5.89	<=13	Pass



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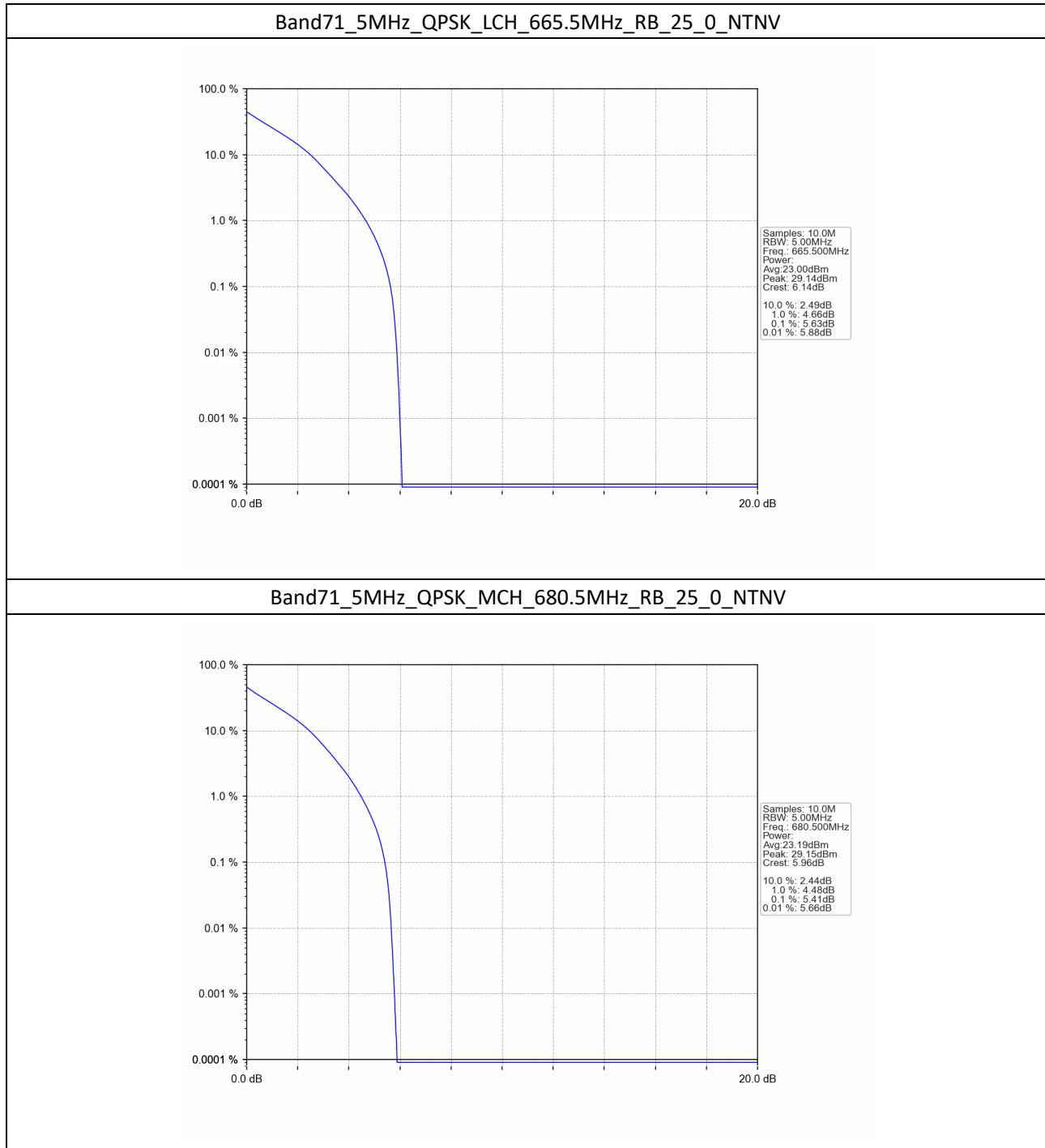
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## 4.2 Test Graph

### 4.2.1 B71\_5MHz



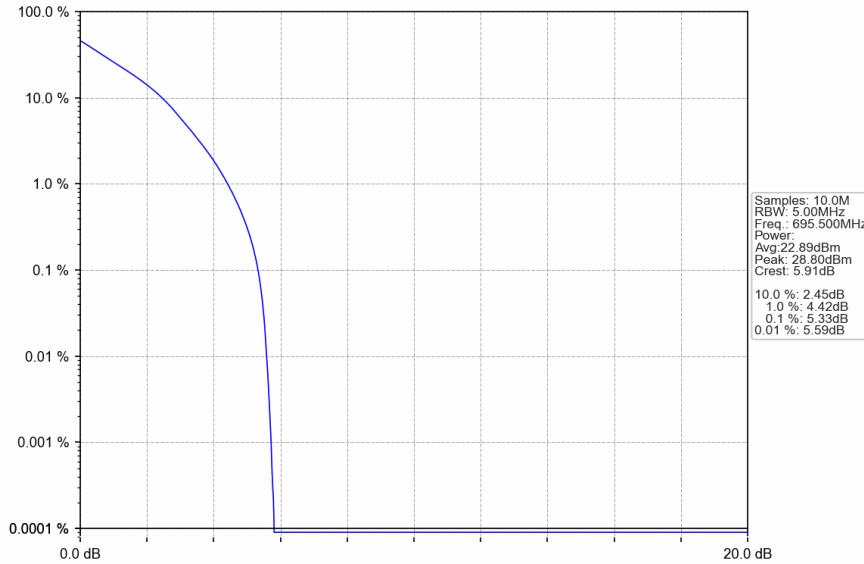
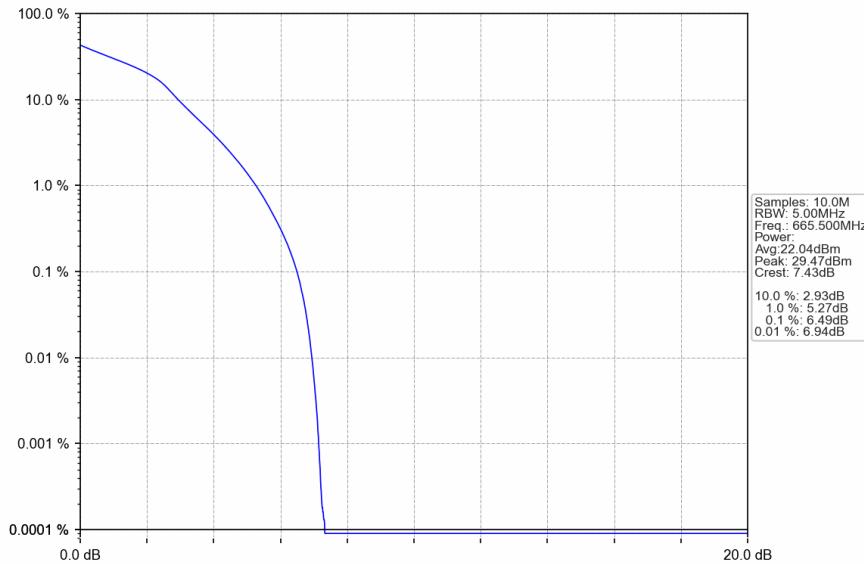
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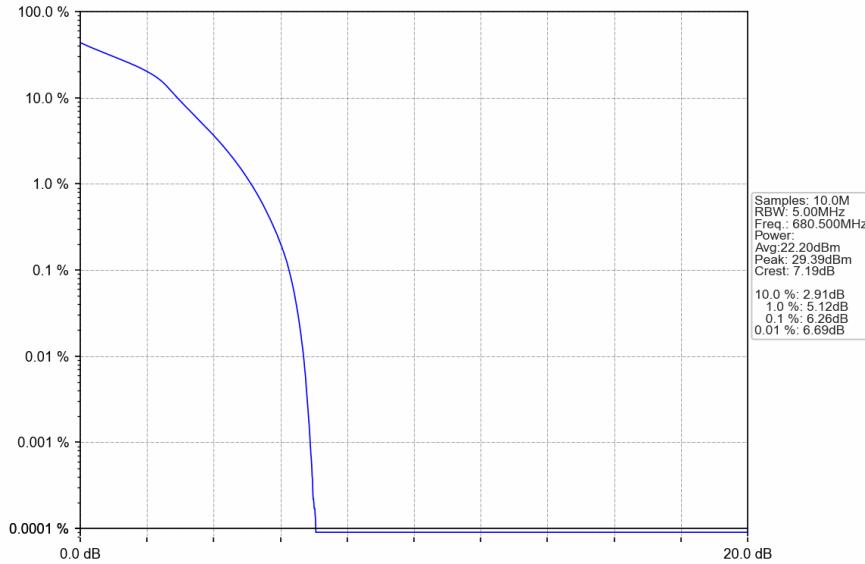
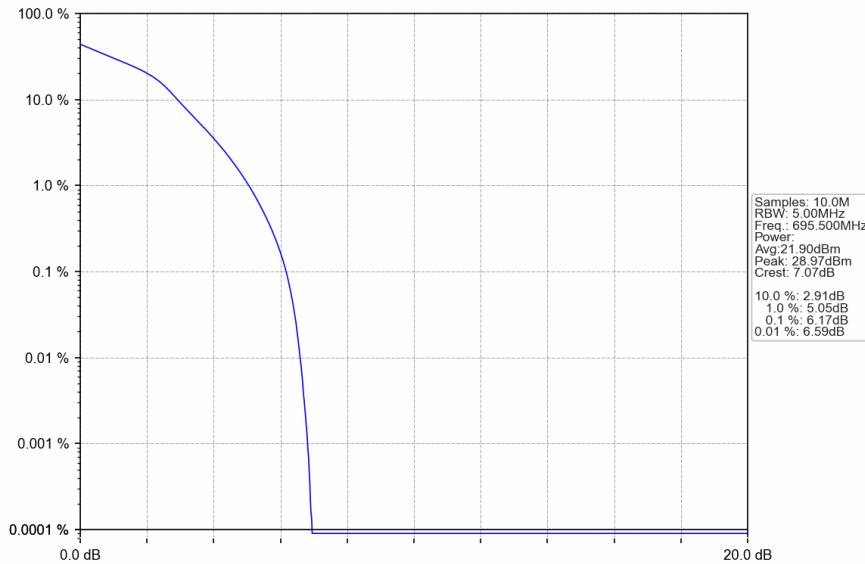
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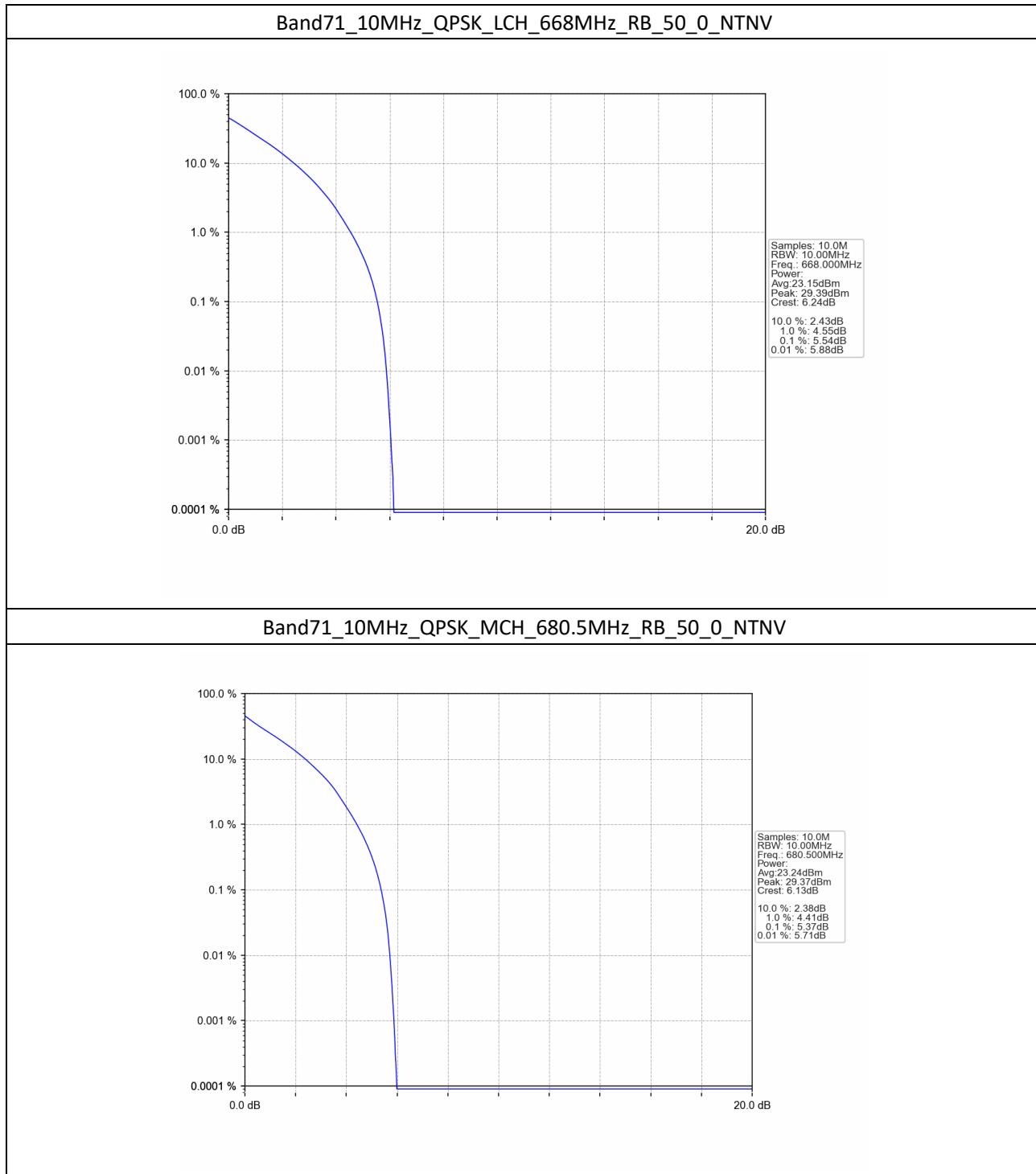
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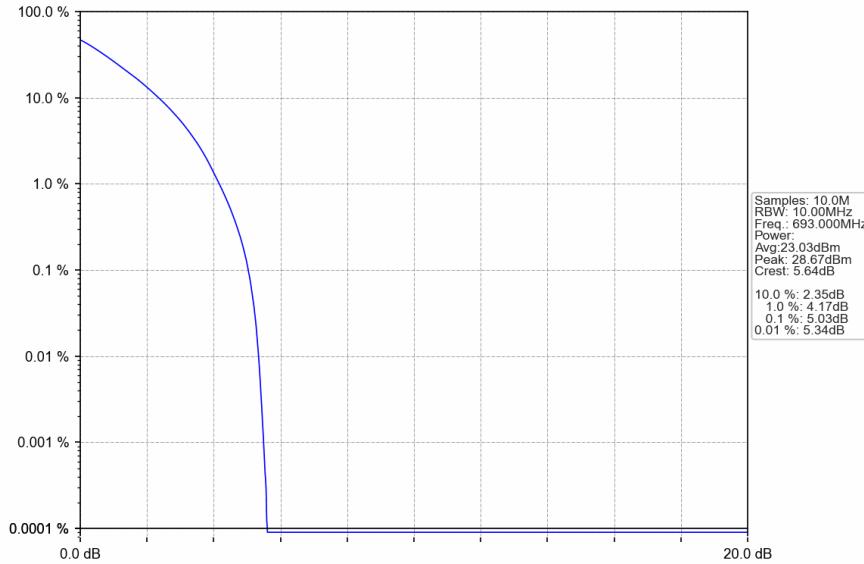
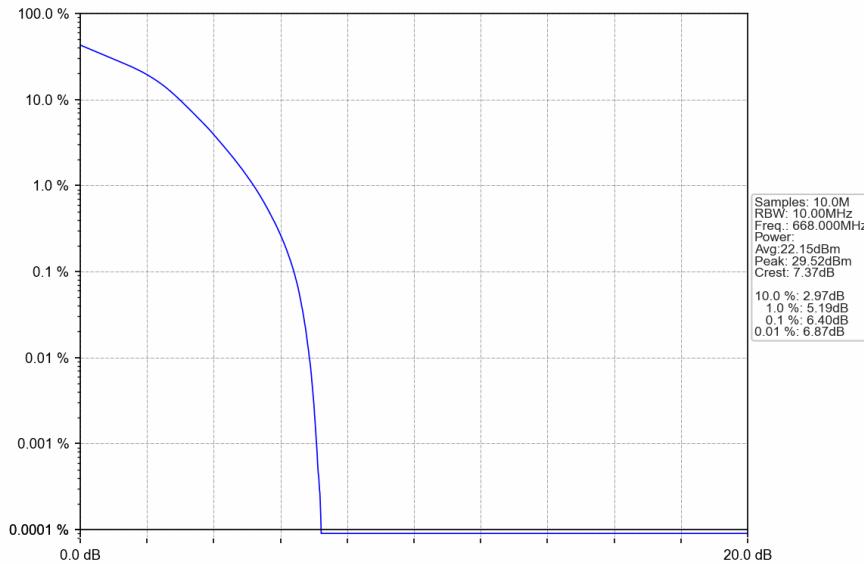
**4.2.2 B71\_10MHz**

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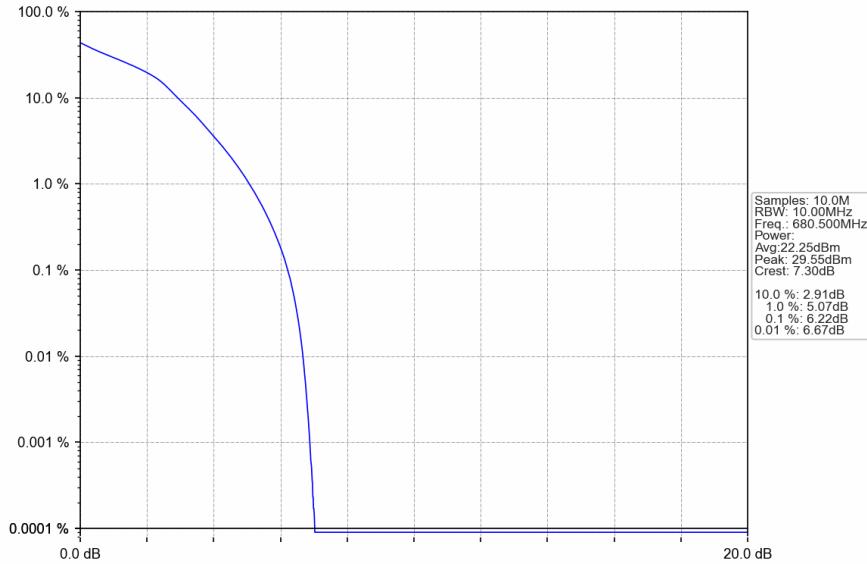
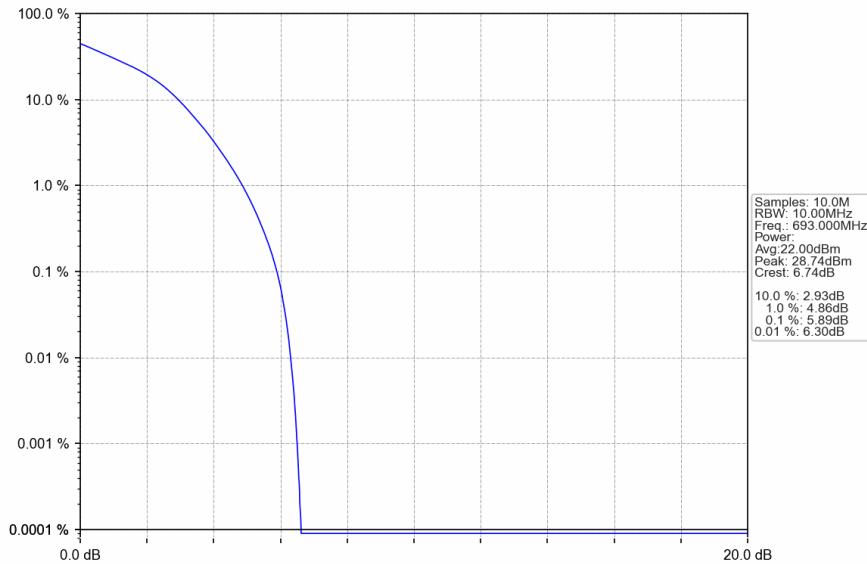
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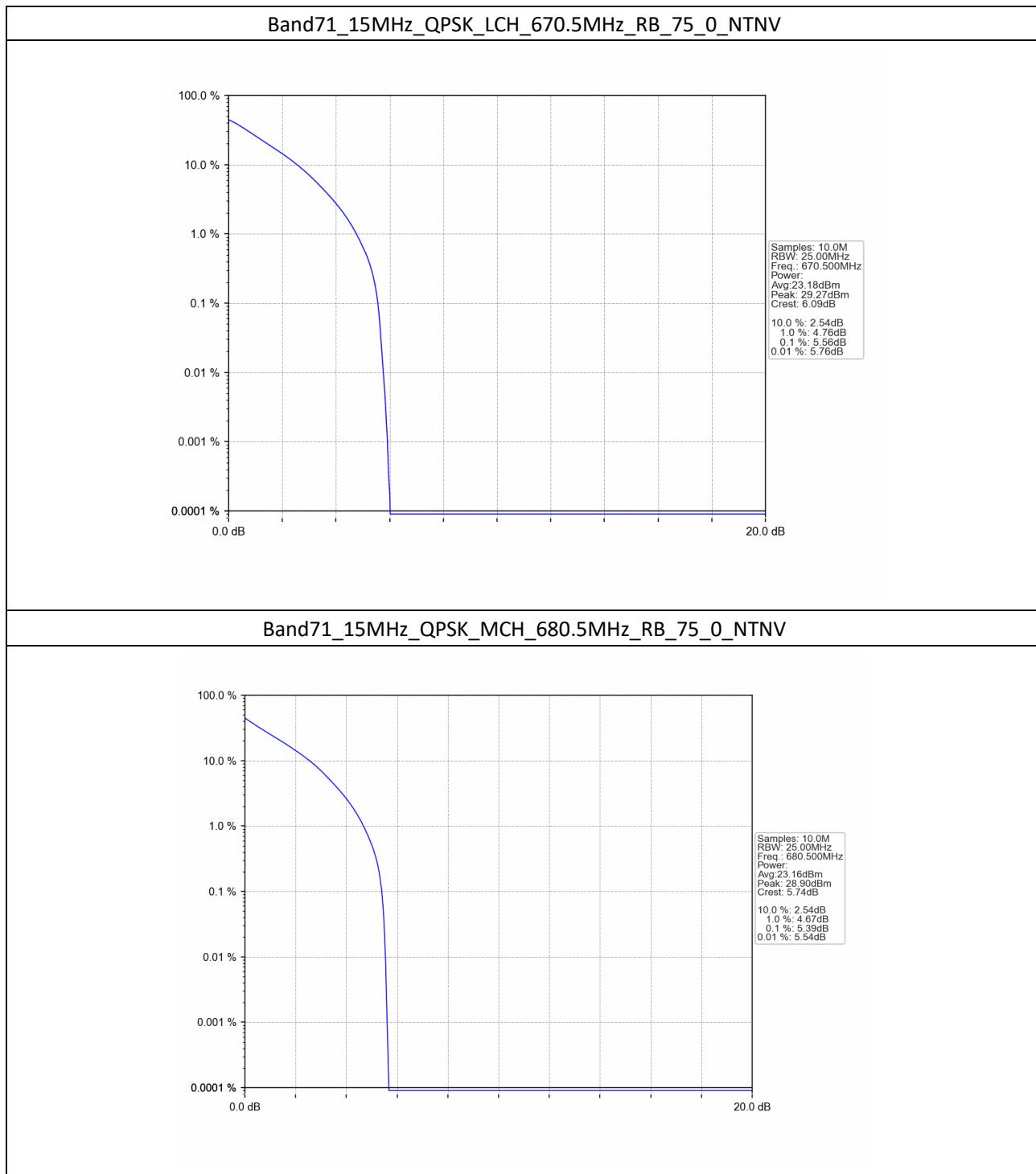
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**Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV****Band71\_10MHz\_16QAM\_HCH\_693MHz\_RB\_50\_0\_NTNV**

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**4.2.3 B71\_15MHz**

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