



Report No.: SUCR240400009001
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Appendix B.11

LTE Band 17



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.75	21.4	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.68	21.33	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.56	21.21	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.63	20.28	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.74	21.39	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.99	21.64	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.53	21.18	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.68	20.33	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.82	21.47	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.63	21.28	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.48	21.13	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.75	20.4	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.84	20.49	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.82	20.47	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.81	20.46	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.74	19.39	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.77	20.42	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.83	20.48	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.76	20.41	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.7	19.35	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.83	20.48	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.65	20.3	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.65	20.3	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.67	19.32	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.84	19.49	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.78	19.43	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.63	19.28	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.7	18.35	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.64	19.29	34.77	PASS



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Band17	5MHz	64QAM	23790	1RB#12	21.86	19.51	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.75	19.4	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.66	18.31	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.87	19.52	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.68	19.33	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.73	19.38	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.7	18.35	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#0	18.6	16.25	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#12	18.87	16.52	34.77	PASS
Band17	5MHz	256QAM	23755	1RB#24	18.62	16.27	34.77	PASS
Band17	5MHz	256QAM	23755	25RB#0	18.67	16.32	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#0	18.82	16.47	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#12	18.66	16.31	34.77	PASS
Band17	5MHz	256QAM	23790	1RB#24	18.72	16.37	34.77	PASS
Band17	5MHz	256QAM	23790	25RB#0	18.56	16.21	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#0	18.59	16.24	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#12	18.89	16.54	34.77	PASS
Band17	5MHz	256QAM	23825	1RB#24	18.64	16.29	34.77	PASS
Band17	5MHz	256QAM	23825	25RB#0	18.68	16.33	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.74	21.39	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.68	21.33	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.46	21.11	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.68	20.33	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.7	21.35	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.71	21.36	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.51	21.16	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.66	20.31	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.59	21.24	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.65	21.3	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.49	21.14	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.62	20.27	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.72	20.37	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.85	20.5	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.61	20.26	34.77	PASS



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Band17	10MHz	16QAM	23790	1RB#0	22.7	20.35	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.84	20.49	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.77	20.42	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.68	19.33	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.8	20.45	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.92	20.57	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.78	20.43	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.6	19.25	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.08	19.73	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.78	19.43	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.64	19.29	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.74	18.39	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.76	19.41	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.79	19.44	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.91	19.56	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.74	18.39	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.74	19.39	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.73	19.38	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.67	19.32	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.65	18.3	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#0	18.7	16.35	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#24	18.78	16.43	34.77	PASS
Band17	10MHz	256QAM	23780	1RB#49	18.69	16.34	34.77	PASS
Band17	10MHz	256QAM	23780	50RB#0	18.79	16.44	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#0	18.69	16.34	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#24	18.79	16.44	34.77	PASS
Band17	10MHz	256QAM	23790	1RB#49	18.7	16.35	34.77	PASS
Band17	10MHz	256QAM	23790	50RB#0	18.71	16.36	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#0	18.84	16.49	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#24	18.71	16.36	34.77	PASS
Band17	10MHz	256QAM	23800	1RB#49	18.59	16.24	34.77	PASS
Band17	10MHz	256QAM	23800	50RB#0	18.64	16.29	34.77	PASS



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2. Frequency Stability

2.2 B17_10MHz

2.2.1 Test Result

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.135	0.213	0.0003	/	Pass
					3.7	0.782	0.0011	/	Pass
					4.4	0.755	0.0011	/	Pass
				-30	3.7	0.051	0.0001	/	Pass
				-20	3.7	0.226	0.0003	/	Pass
				-10	3.7	0.048	0.0001	/	Pass
				0	3.7	-0.133	-0.0002	/	Pass
				10	3.7	-0.605	-0.0009	/	Pass
				30	3.7	0.716	0.0010	/	Pass
				40	3.7	0.187	0.0003	/	Pass
				50	3.7	-0.716	-0.0010	/	Pass
	710	50	0	20	3.135	0.436	0.0006	/	Pass
					3.7	0.937	0.0013	/	Pass
					4.4	-0.161	-0.0002	/	Pass
				-30	3.7	-0.080	-0.0001	/	Pass
				-20	3.7	-0.806	-0.0011	/	Pass
				-10	3.7	0.599	0.0008	/	Pass
				0	3.7	-0.646	-0.0009	/	Pass
				10	3.7	-0.331	-0.0005	/	Pass
				30	3.7	-1.189	-0.0017	/	Pass
				40	3.7	-0.051	-0.0001	/	Pass
				50	3.7	0.560	0.0008	/	Pass
	711	50	0	20	3.135	0.589	0.0008	/	Pass
					3.7	0.879	0.0012	/	Pass
					4.4	-1.195	-0.0017	/	Pass
				-30	3.7	-0.248	-0.0003	/	Pass
				-20	3.7	0.338	0.0005	/	Pass
				-10	3.7	-0.404	-0.0006	/	Pass
				0	3.7	0.586	0.0008	/	Pass
				10	3.7	0.555	0.0008	/	Pass
				30	3.7	-0.403	-0.0006	/	Pass
				40	3.7	0.297	0.0004	/	Pass
				50	3.7	0.426	0.0006	/	Pass



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3. Field Strength of Spurious Radiation

Test Band = LTE_B17

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	63.07	-53.80	25.78	-60.21	-13.00	47.21	Horizontal
2	2113.5	66.79	-52.60	27.47	-53.60	-13.00	40.60	Horizontal
3	3102	52.91	-50.63	30.11	-62.87	-13.00	49.87	Horizontal
4	4156	51.80	-47.81	31.15	-60.12	-13.00	47.12	Horizontal
5	6088.5	50.78	-44.24	34.48	-54.24	-13.00	41.24	Horizontal
6	9510	49.43	-39.30	39.18	-45.95	-13.00	32.95	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1233.5	54.67	-53.91	25.67	-68.83	-13.00	55.83	Vertical
2	1769.5	66.43	-53.17	25.58	-56.42	-13.00	43.42	Vertical
3	2114	55.14	-52.60	27.47	-65.25	-13.00	52.25	Vertical
4	3282.5	52.34	-49.87	30.67	-62.12	-13.00	49.12	Vertical
5	5121	51.55	-44.75	33.54	-54.92	-13.00	41.92	Vertical
6	7345.5	49.59	-42.96	36.92	-51.71	-13.00	38.71	Vertical



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Test Band = LTE_B17

Test Channel = MCH

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	63.18	-53.79	25.78	-60.09	-13.00	47.09	Horizontal
2	2117	68.00	-52.61	27.47	-52.40	-13.00	39.40	Horizontal
3	3705	53.19	-49.33	30.32	-61.08	-13.00	48.08	Horizontal
4	5123.5	52.06	-44.78	33.55	-54.43	-13.00	41.43	Horizontal
5	7077	50.16	-43.46	36.62	-51.94	-13.00	38.94	Horizontal
6	9502	49.13	-39.28	39.20	-46.21	-13.00	33.21	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1146	54.95	-53.60	25.89	-68.02	-13.00	55.02	Vertical
2	1770	57.01	-53.17	25.58	-65.84	-13.00	52.84	Vertical
3	2116.5	55.58	-52.61	27.47	-64.82	-13.00	51.82	Vertical
4	3233.5	52.48	-50.22	30.53	-62.47	-13.00	49.47	Vertical
5	5147.5	51.22	-45.14	33.60	-55.58	-13.00	42.58	Vertical
6	9499.5	48.99	-39.28	39.20	-46.35	-13.00	33.35	Vertical



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Test Band = LTE_B17
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	63.14	-53.78	25.77	-60.13	-13.00	47.13	Horizontal
2	1772.5	60.80	-53.15	25.59	-62.02	-13.00	49.02	Horizontal
3	2119.5	70.52	-52.61	27.46	-49.89	-13.00	36.89	Horizontal
4	2873	53.34	-50.64	28.99	-63.57	-13.00	50.57	Horizontal
5	4367.5	51.82	-46.60	32.01	-58.03	-13.00	45.03	Horizontal
6	5685	51.24	-44.33	33.44	-54.91	-13.00	41.91	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1278	54.99	-53.99	25.64	-68.62	-13.00	55.62	Vertical
2	1771	70.16	-53.16	25.58	-52.68	-13.00	39.68	Vertical
3	2119.5	55.66	-52.61	27.46	-64.75	-13.00	51.75	Vertical
4	3188	53.28	-50.38	30.38	-61.98	-13.00	48.98	Vertical
5	4961	50.71	-44.33	33.18	-55.70	-13.00	42.70	Vertical
6	8062.5	49.00	-41.22	37.58	-49.90	-13.00	36.90	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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4. 99% & 26dB Bandwidth

4.1 Band17_OBW

4.1.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.567	/	Pass
		710	25	0	4.579	/	Pass
		713.5	25	0	4.575	/	Pass
	16QAM	706.5	25	0	4.590	/	Pass
		710	25	0	4.569	/	Pass
		713.5	25	0	4.572	/	Pass
	64QAM	706.5	25	0	4.577	/	Pass
		710	25	0	4.592	/	Pass
		713.5	25	0	4.560	/	Pass
	256QAM	706.5	25	0	4.575	/	Pass
		710	25	0	4.574	/	Pass
		713.5	25	0	4.574	/	Pass
10	QPSK	709	50	0	9.106	/	Pass
		710	50	0	9.094	/	Pass
		711	50	0	9.059	/	Pass
	16QAM	709	50	0	9.090	/	Pass
		710	50	0	9.055	/	Pass
		711	50	0	9.088	/	Pass
	64QAM	709	50	0	9.091	/	Pass
		710	50	0	9.089	/	Pass
		711	50	0	9.057	/	Pass
	256QAM	709	50	0	9.076	/	Pass
		710	50	0	9.087	/	Pass
		711	50	0	9.082	/	Pass



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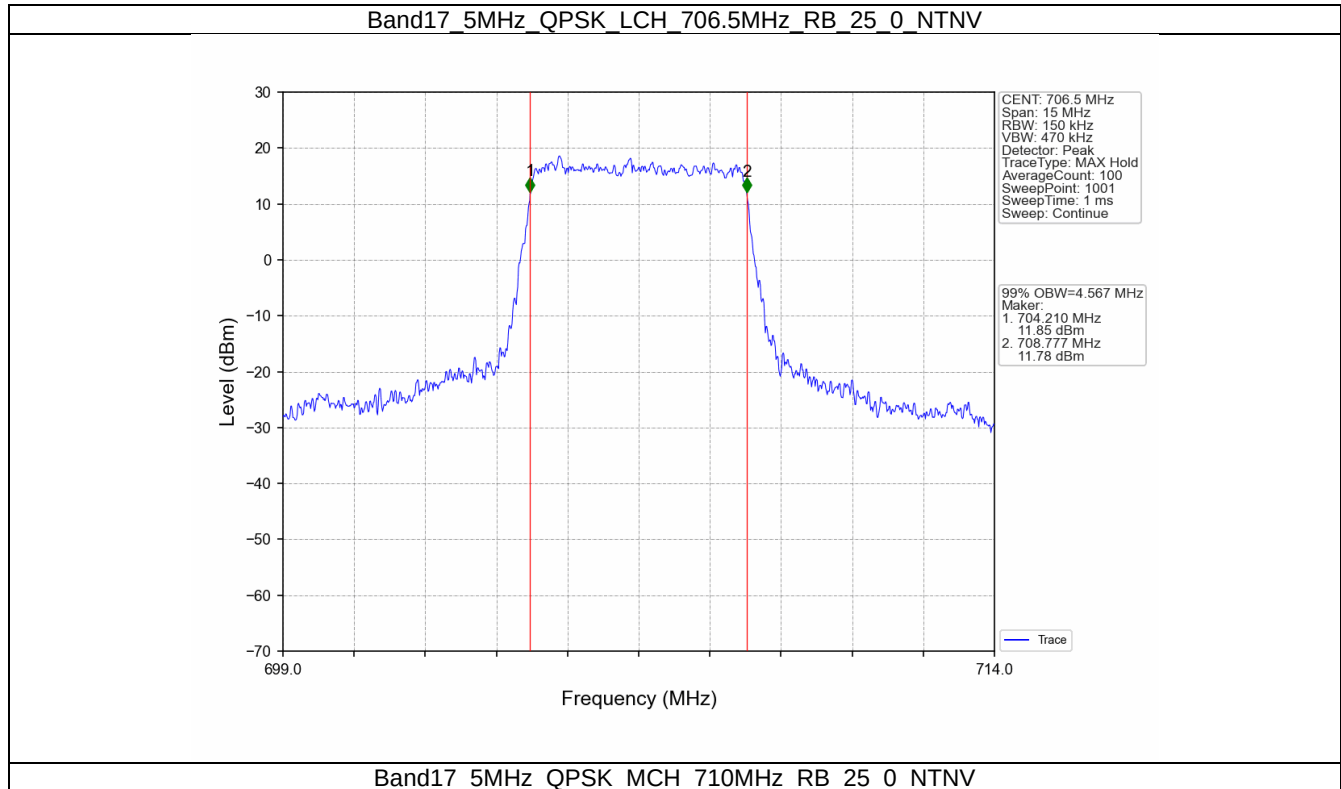
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4.1.2 Test Graph



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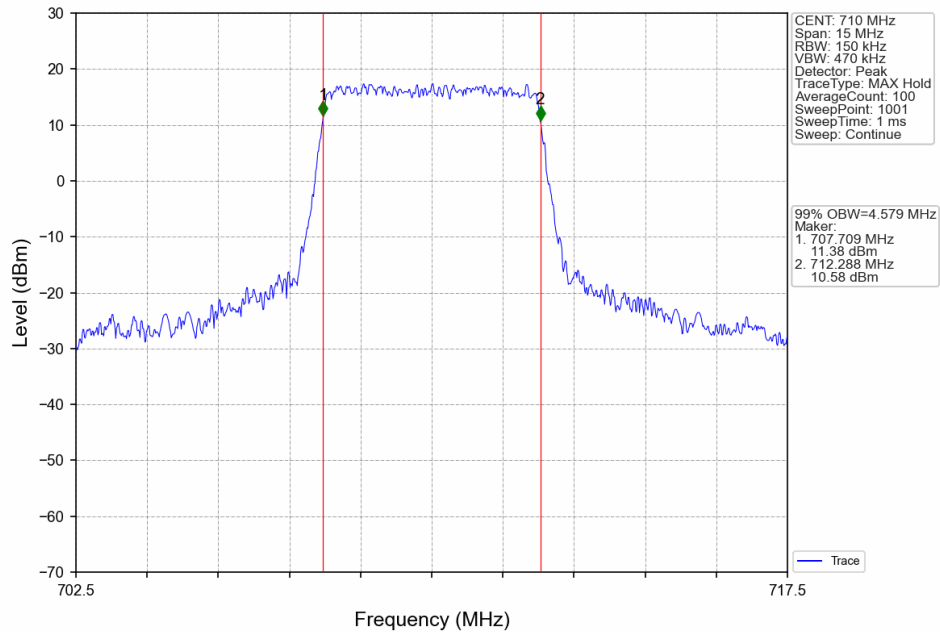
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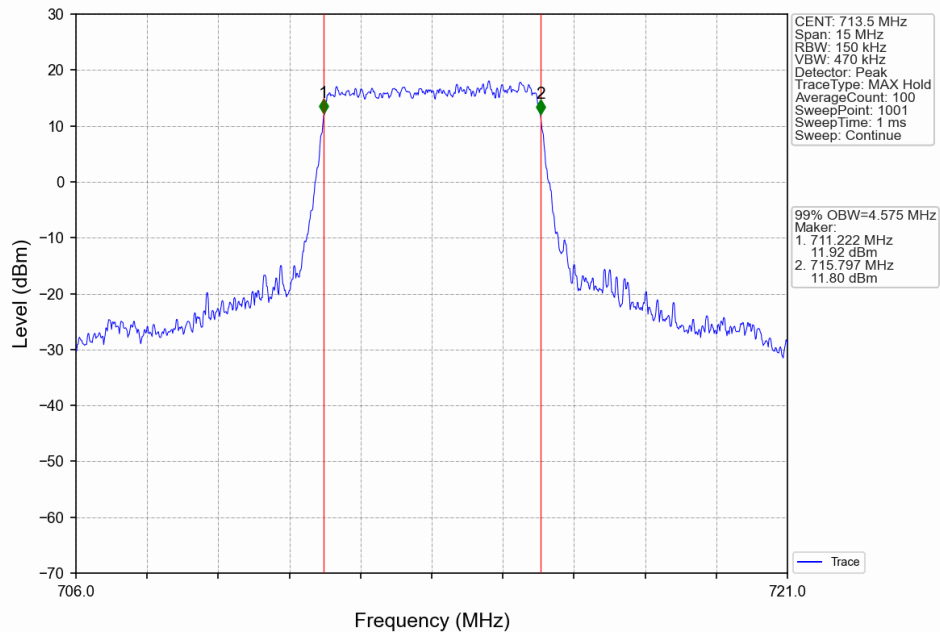
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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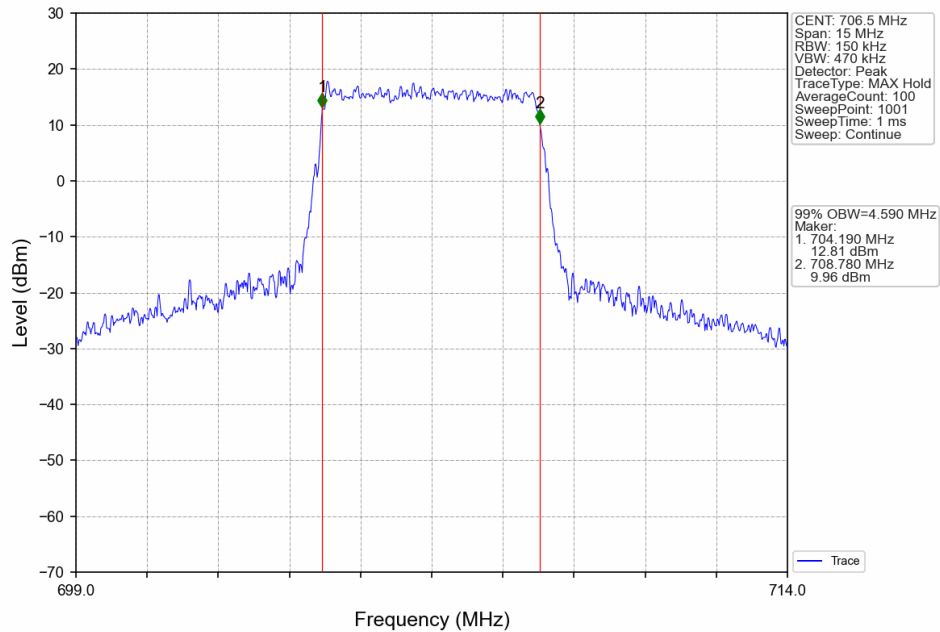
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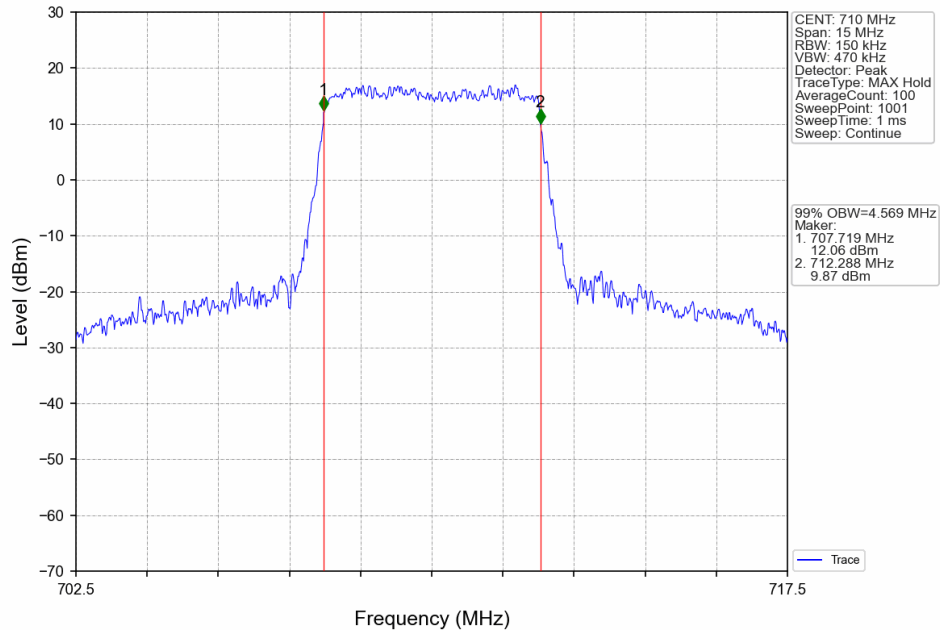
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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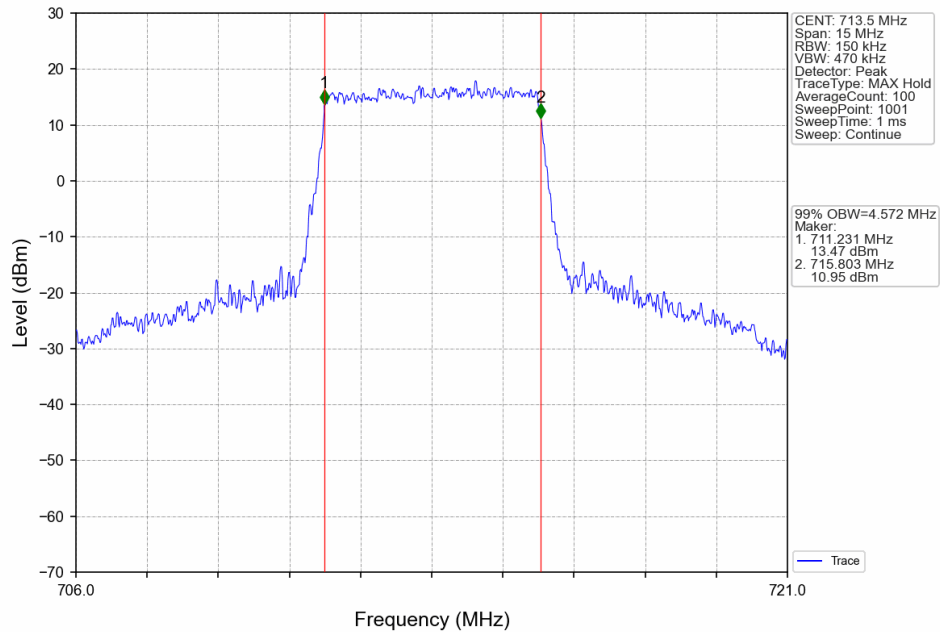
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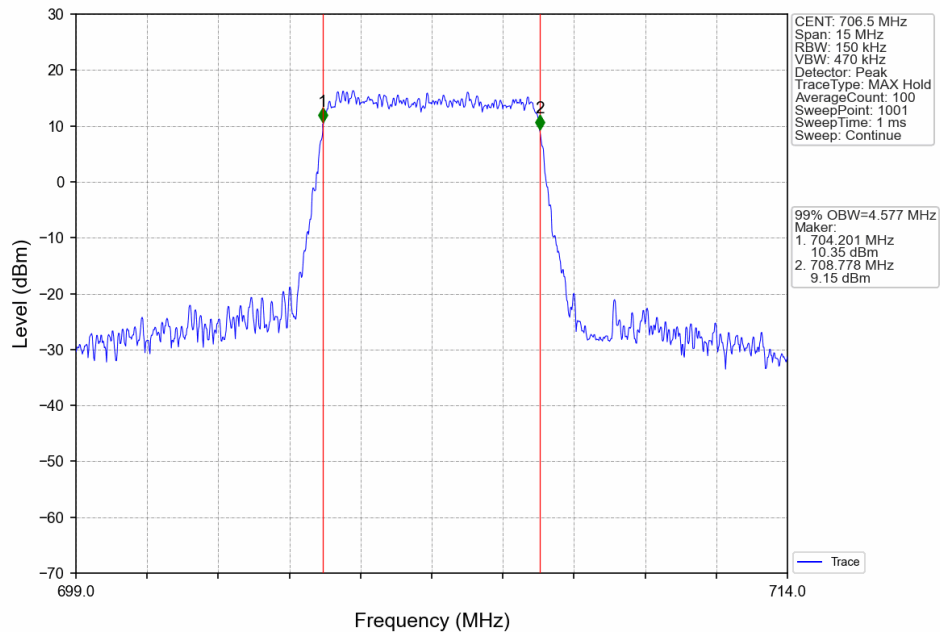
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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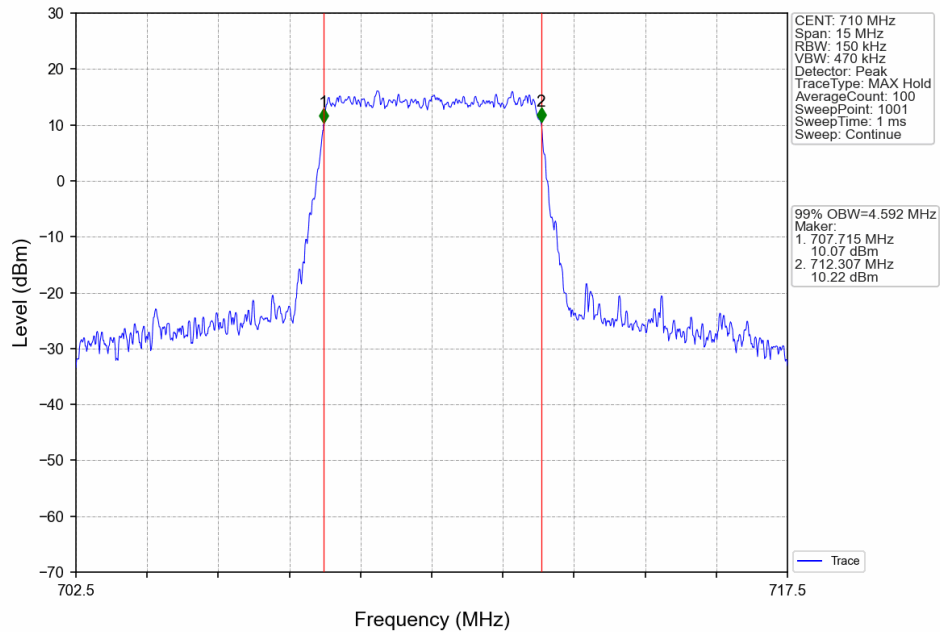
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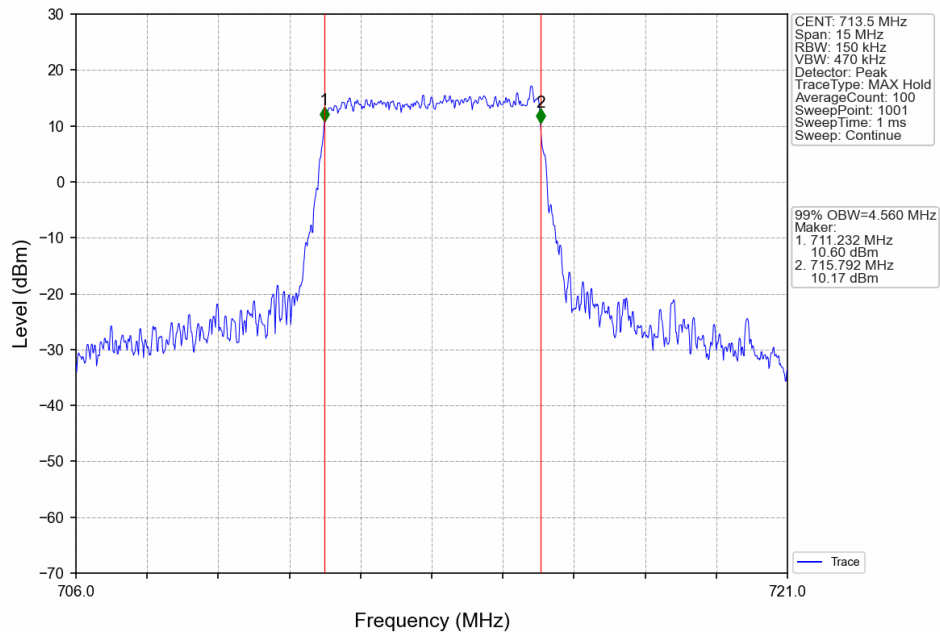
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Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



Band17 5MHz 256QAM LCH 706.5MHz RB 25 0 NTN



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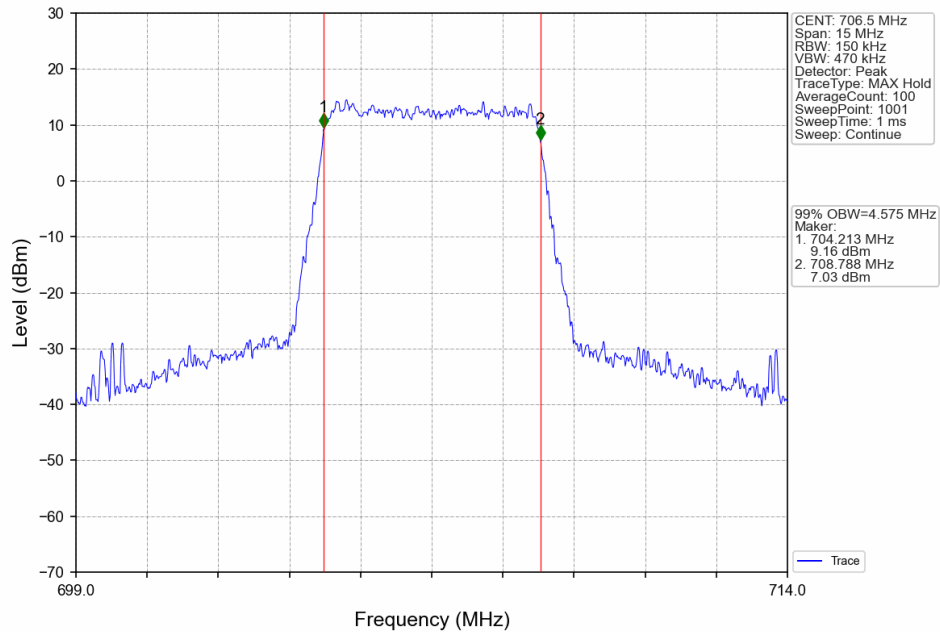
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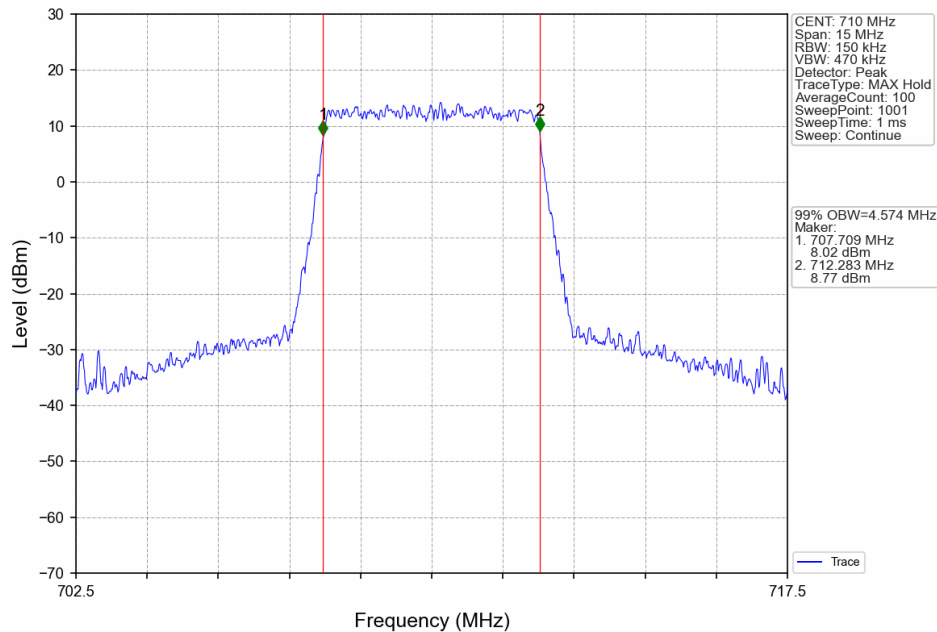
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Band17_5MHz_256QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_256QAM_HCH_713.5MHz_RB_25_0_NTNV



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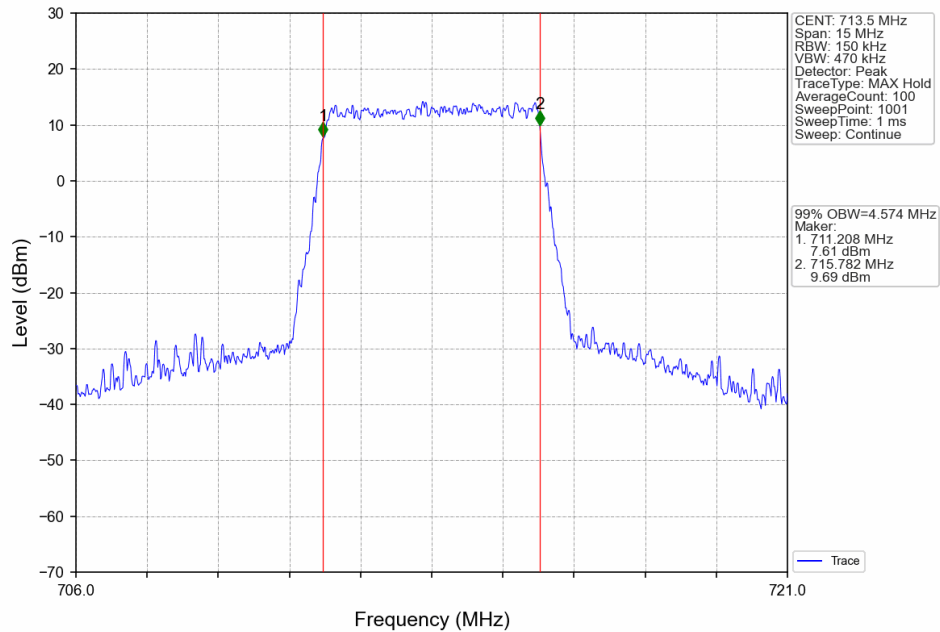
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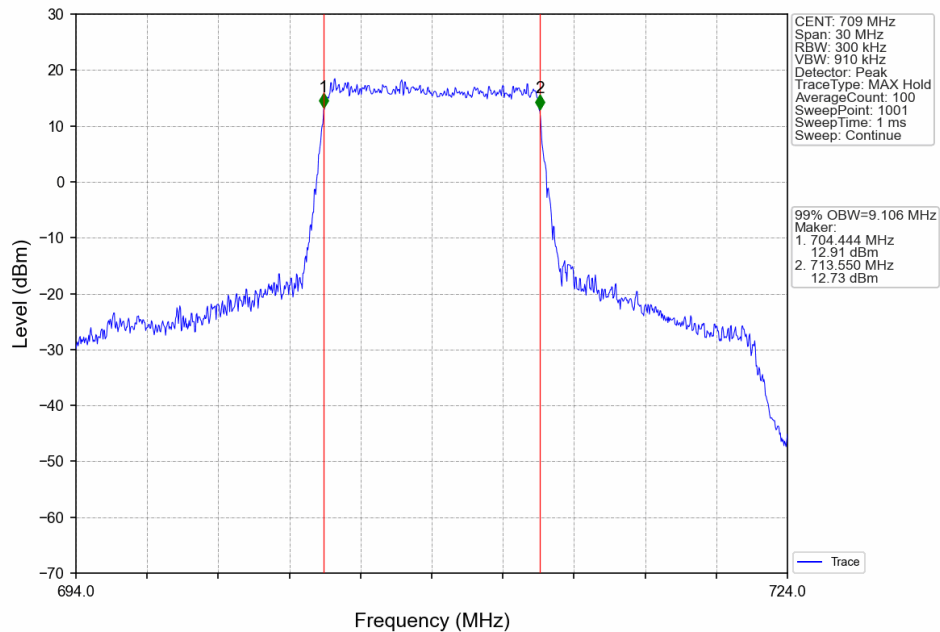
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Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



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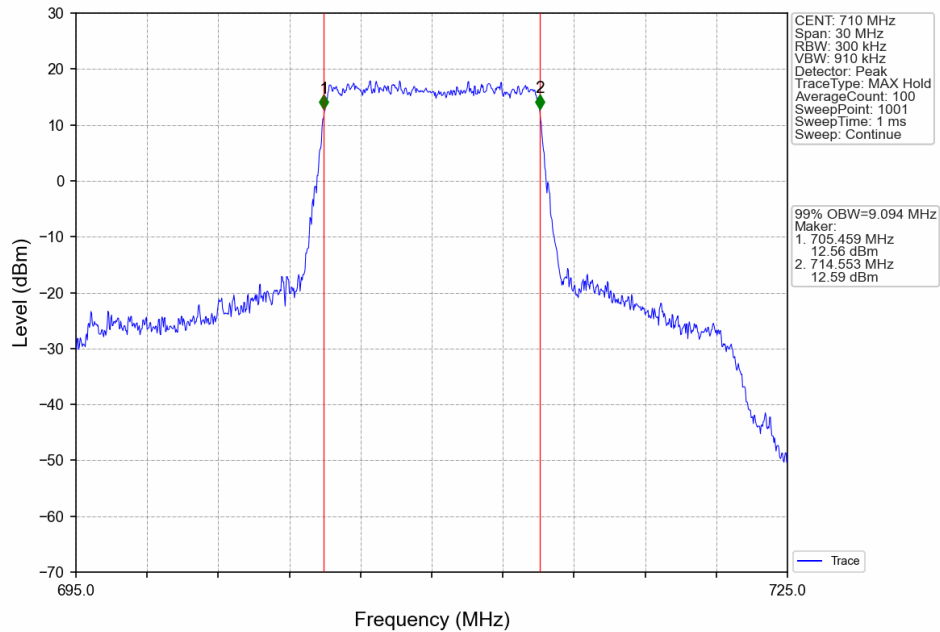
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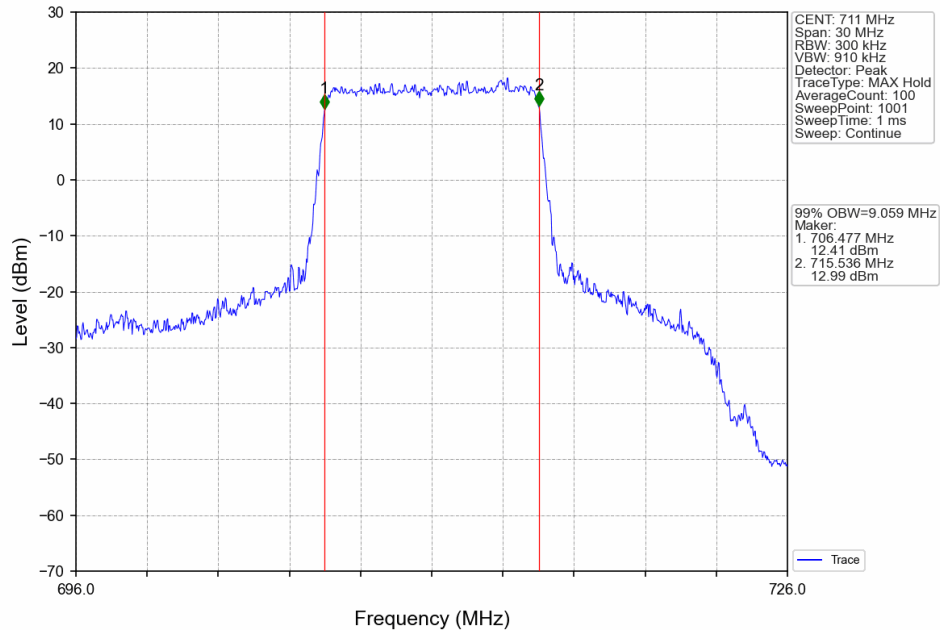
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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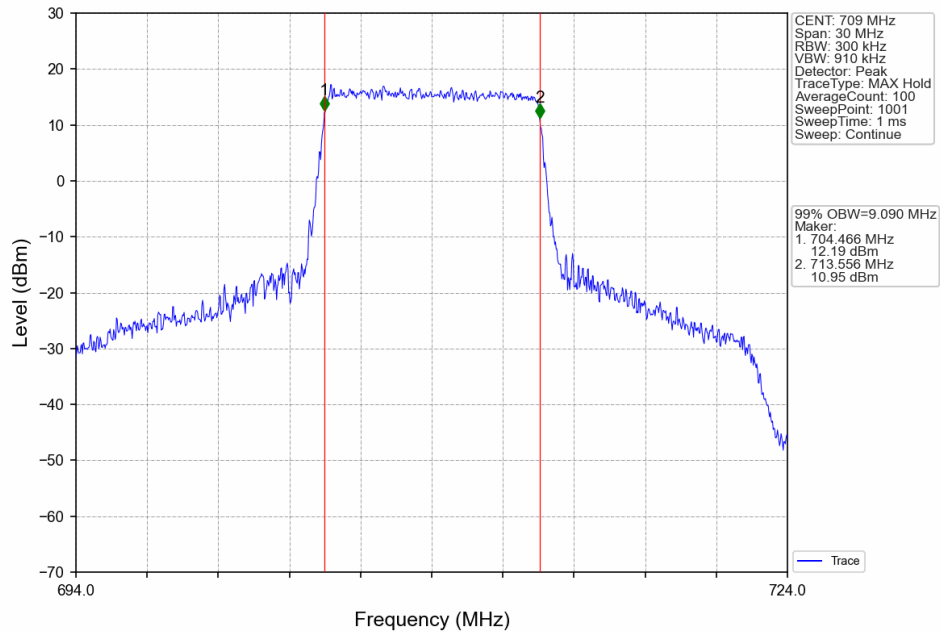
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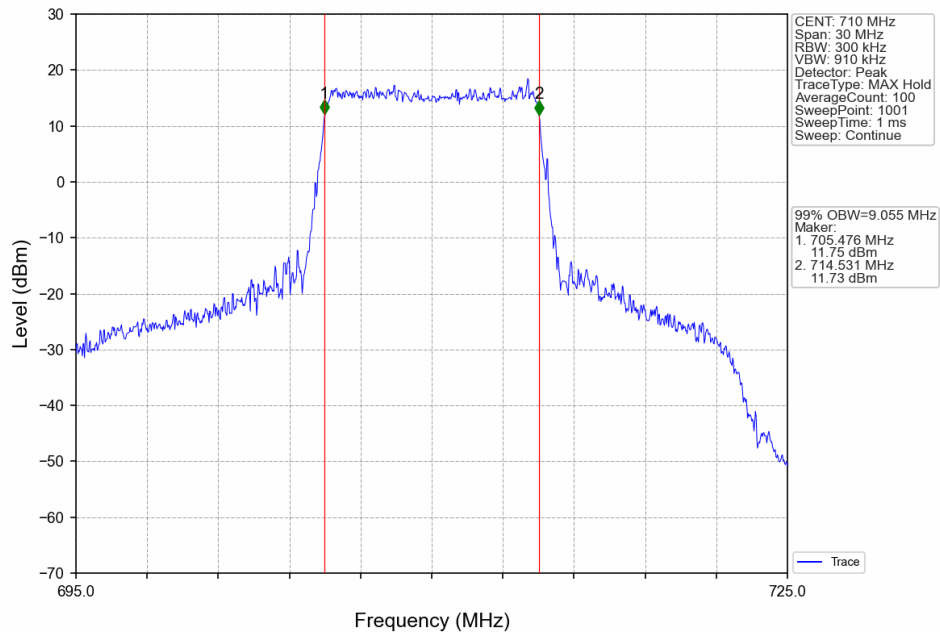
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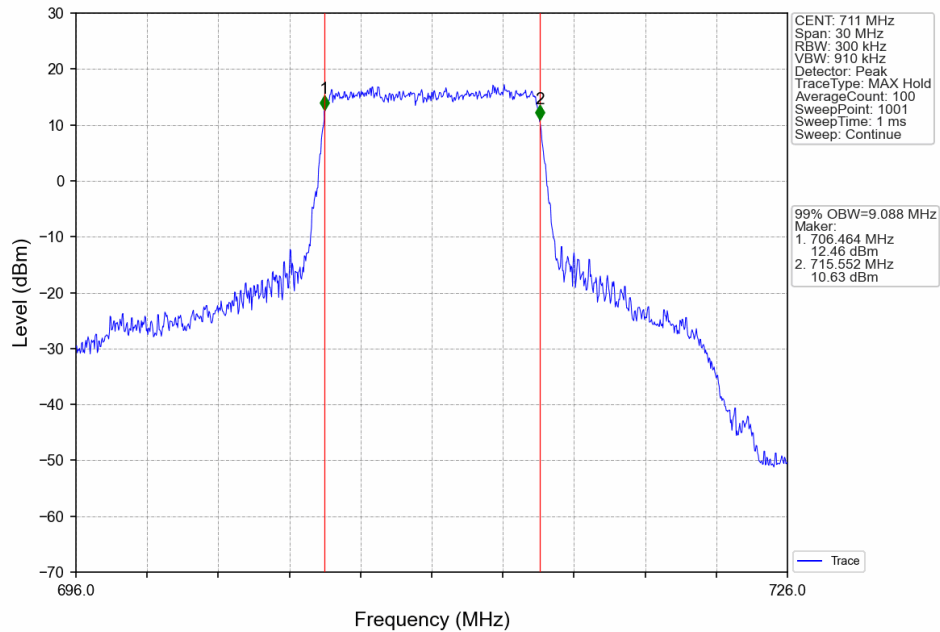
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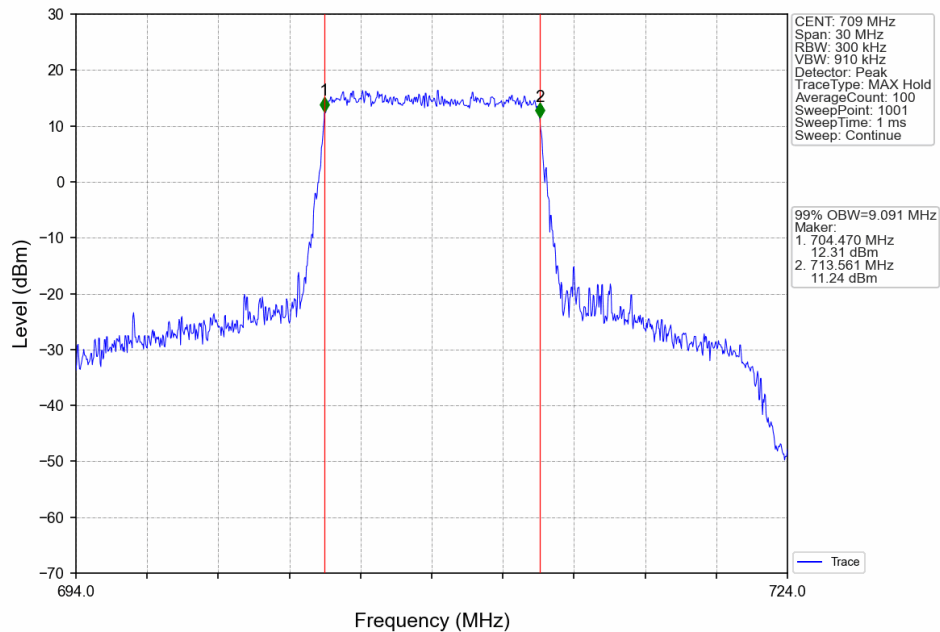
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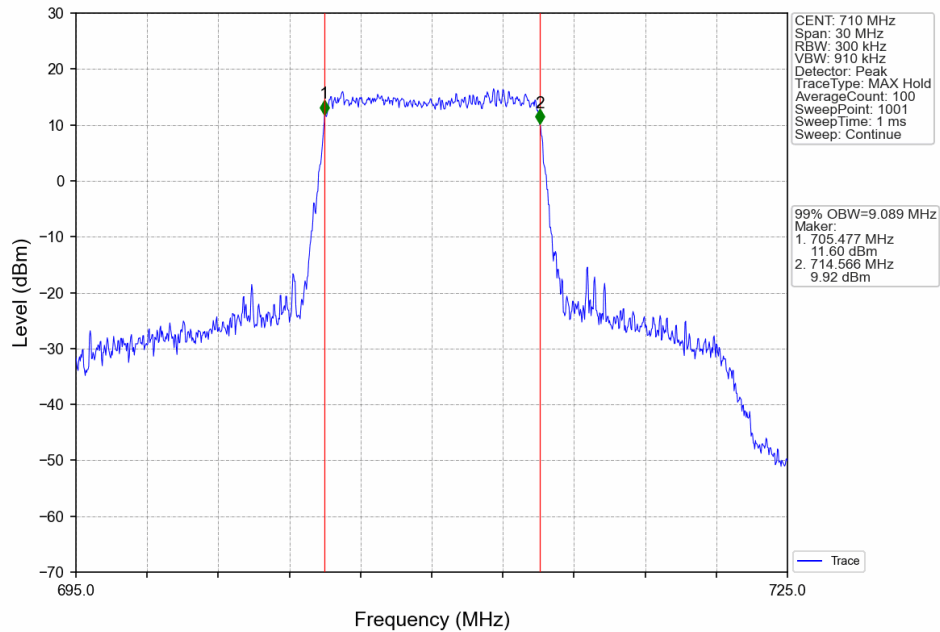
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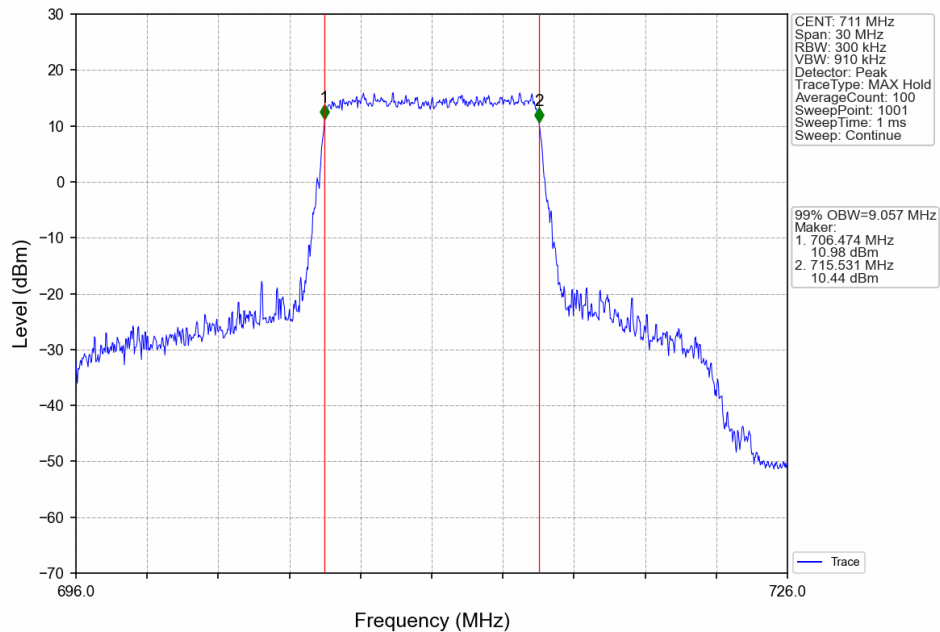
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Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTV



Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTV



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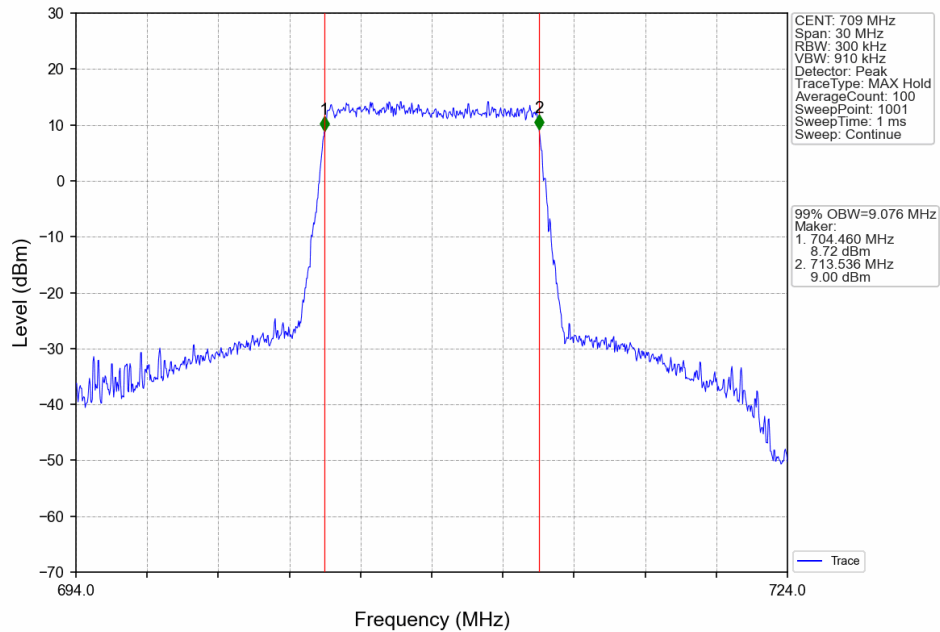
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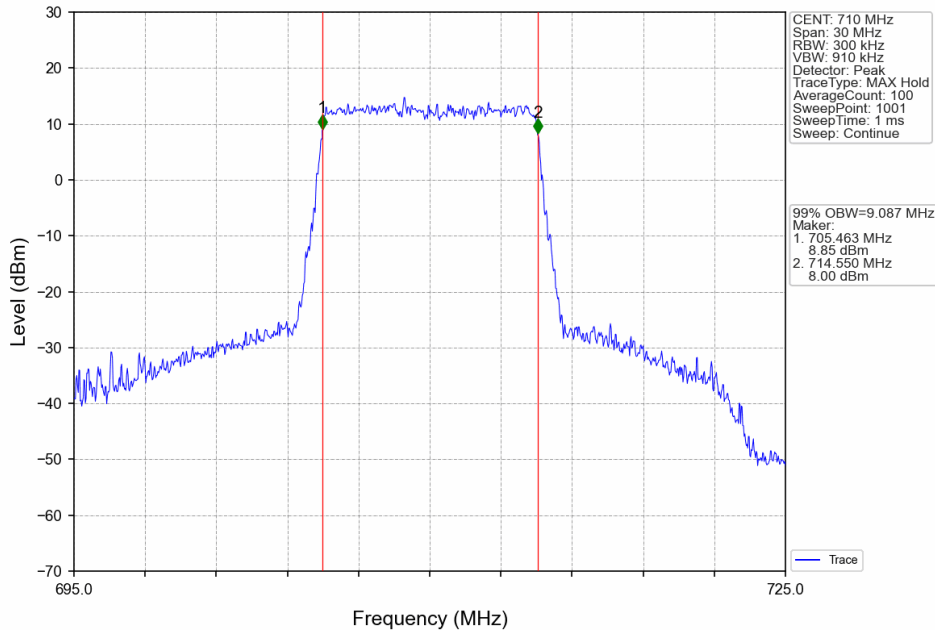
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Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTN



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTN



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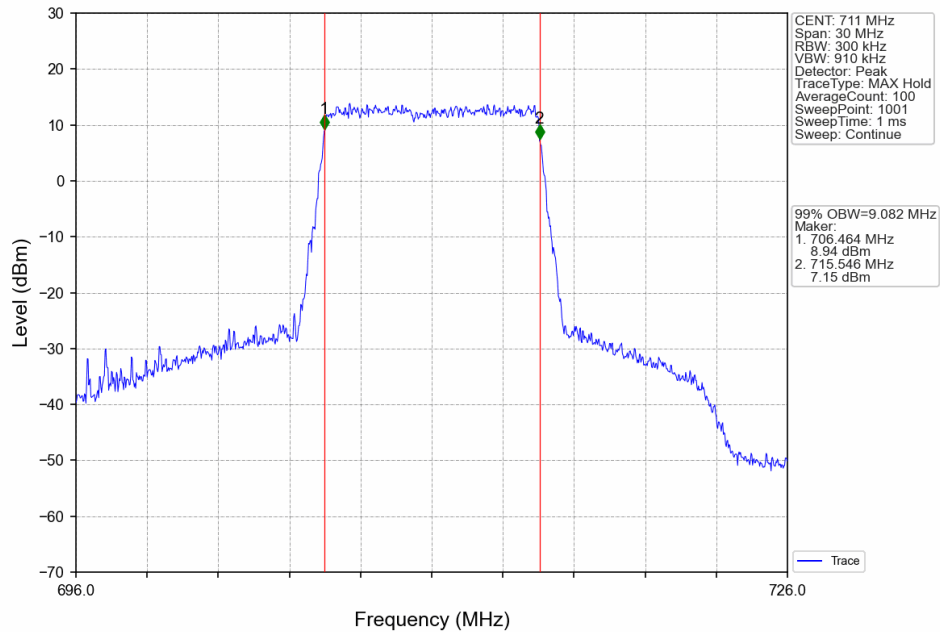
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4.2 Band17_XDB

4.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.271	/	Pass
		710	25	0	5.244	/	Pass
		713.5	25	0	5.186	/	Pass
	16QAM	706.5	25	0	5.159	/	Pass
		710	25	0	5.230	/	Pass
		713.5	25	0	5.202	/	Pass
	64QAM	706.5	25	0	5.239	/	Pass
		710	25	0	5.252	/	Pass
		713.5	25	0	5.168	/	Pass
	256QAM	706.5	25	0	5.233	/	Pass
		710	25	0	5.241	/	Pass
		713.5	25	0	5.201	/	Pass
10	QPSK	709	50	0	10.120	/	Pass
		710	50	0	10.241	/	Pass
		711	50	0	10.067	/	Pass
	16QAM	709	50	0	10.295	/	Pass
		710	50	0	10.113	/	Pass
		711	50	0	10.170	/	Pass
	64QAM	709	50	0	10.182	/	Pass
		710	50	0	10.136	/	Pass
		711	50	0	10.161	/	Pass
	256QAM	709	50	0	10.172	/	Pass
		710	50	0	10.154	/	Pass
		711	50	0	10.345	/	Pass



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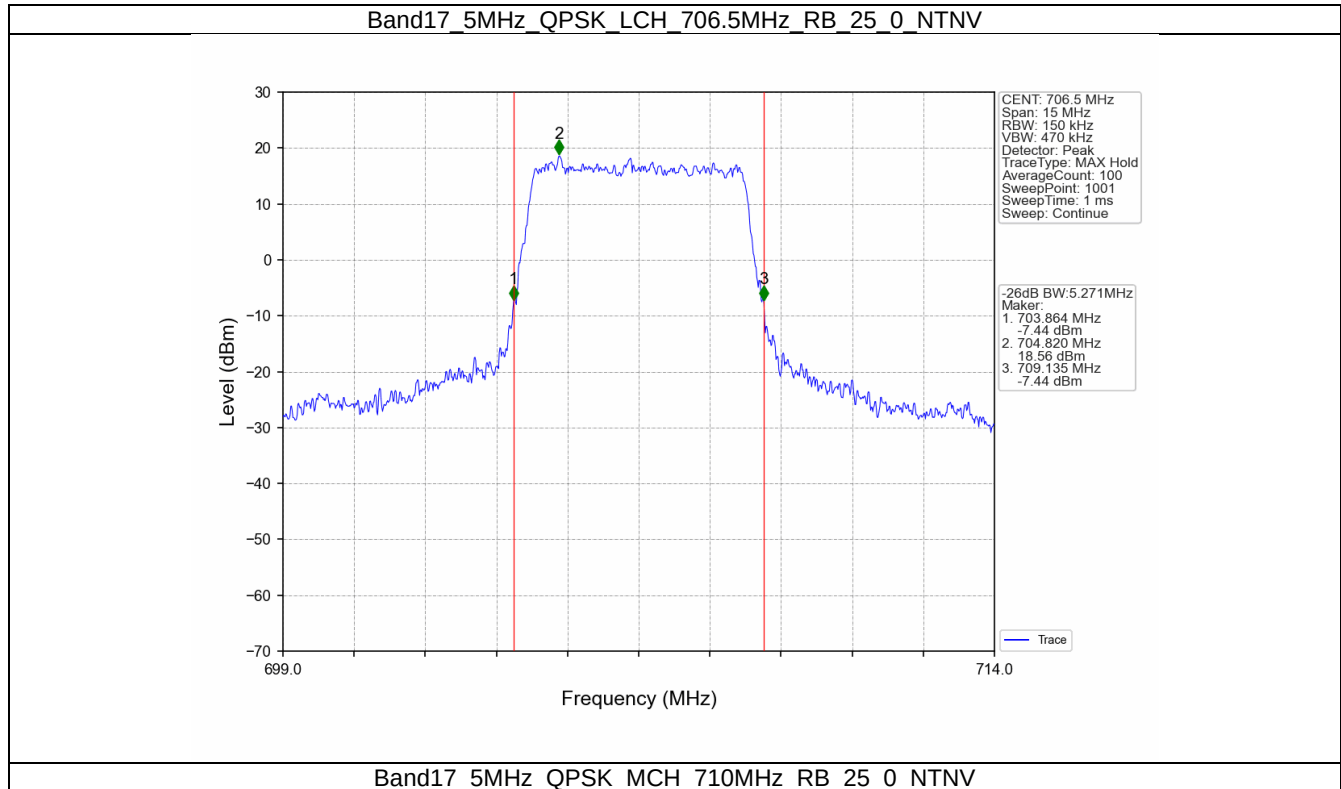
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4.2.2 Test Graph



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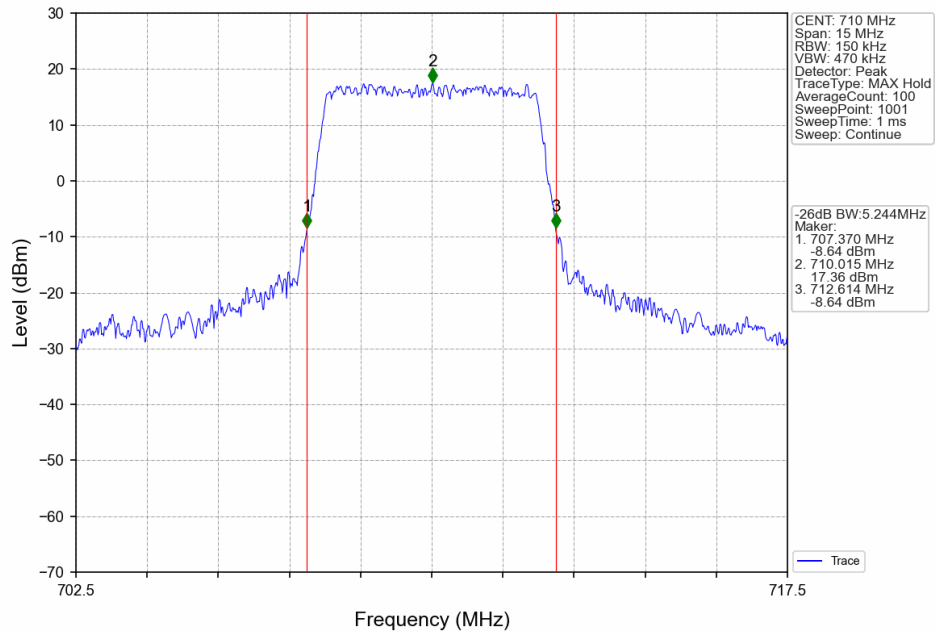
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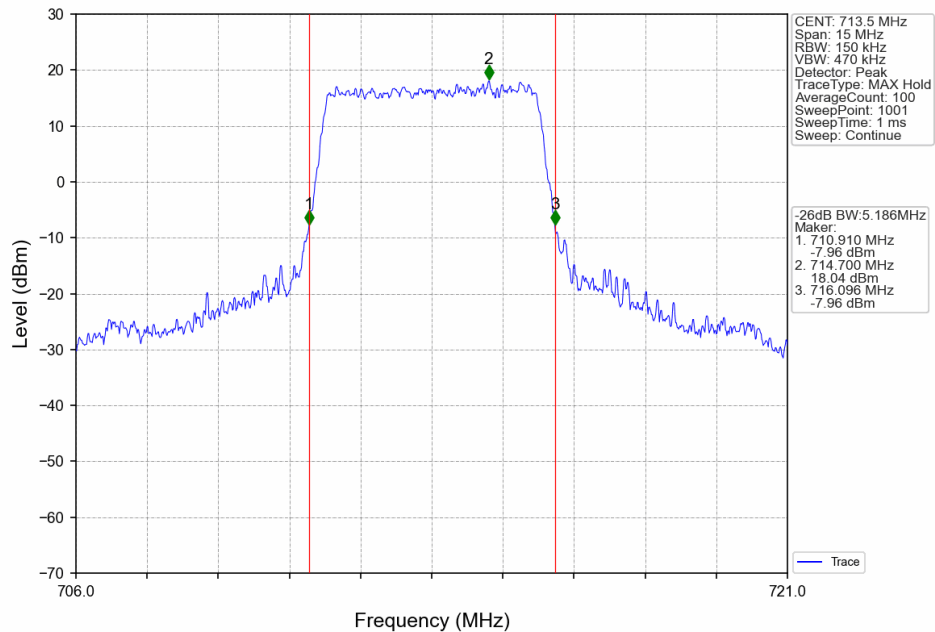
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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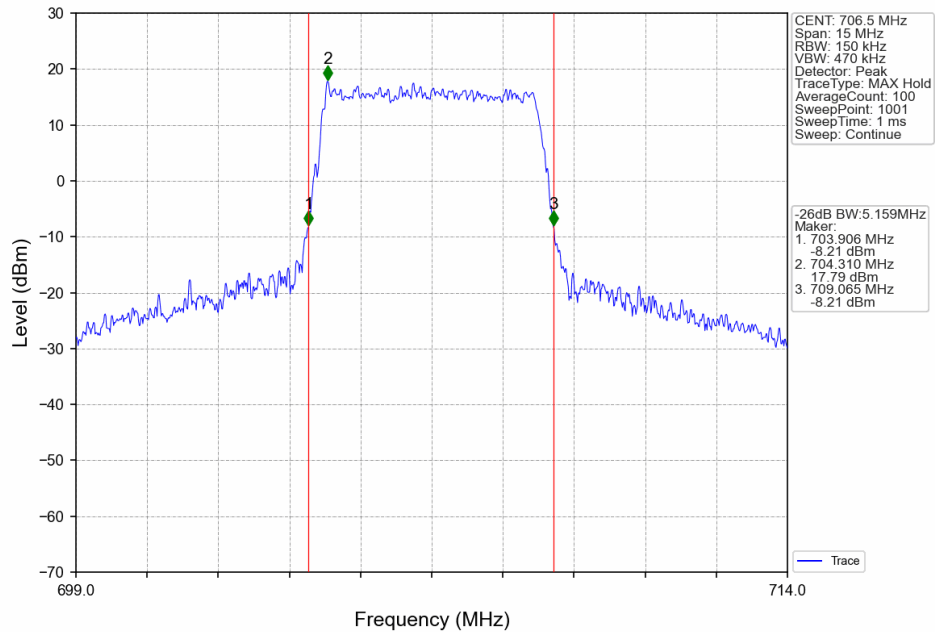
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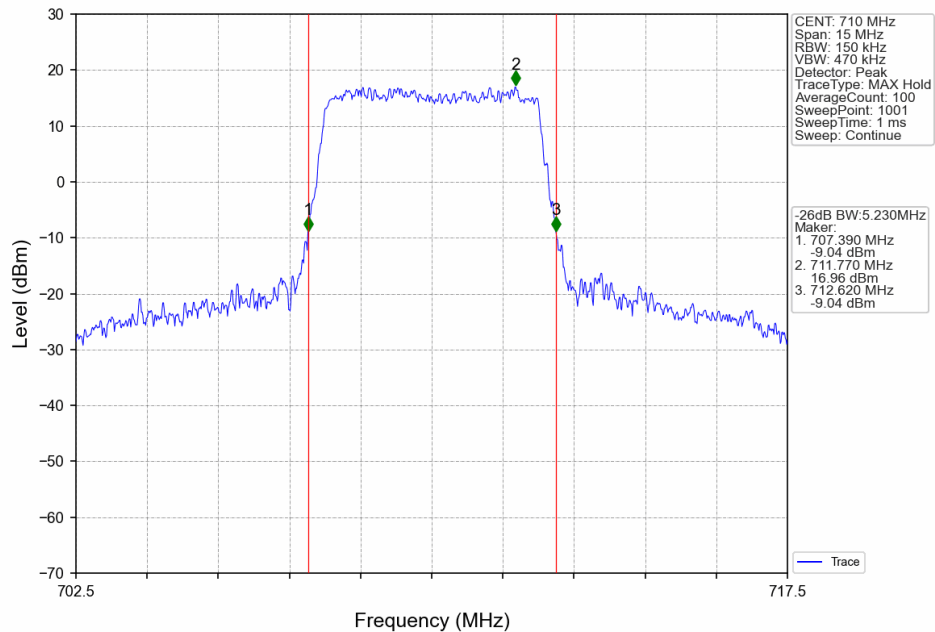
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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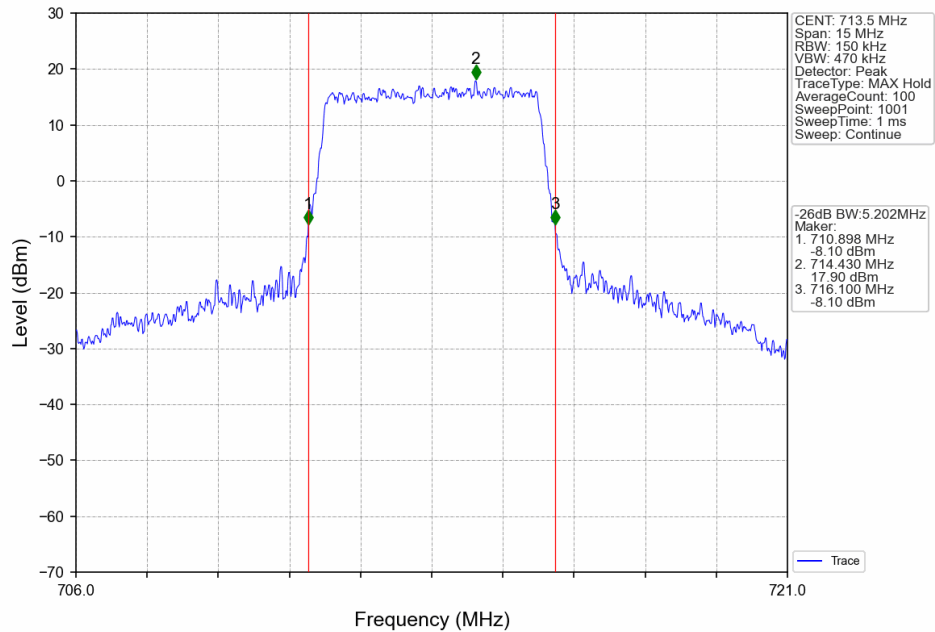
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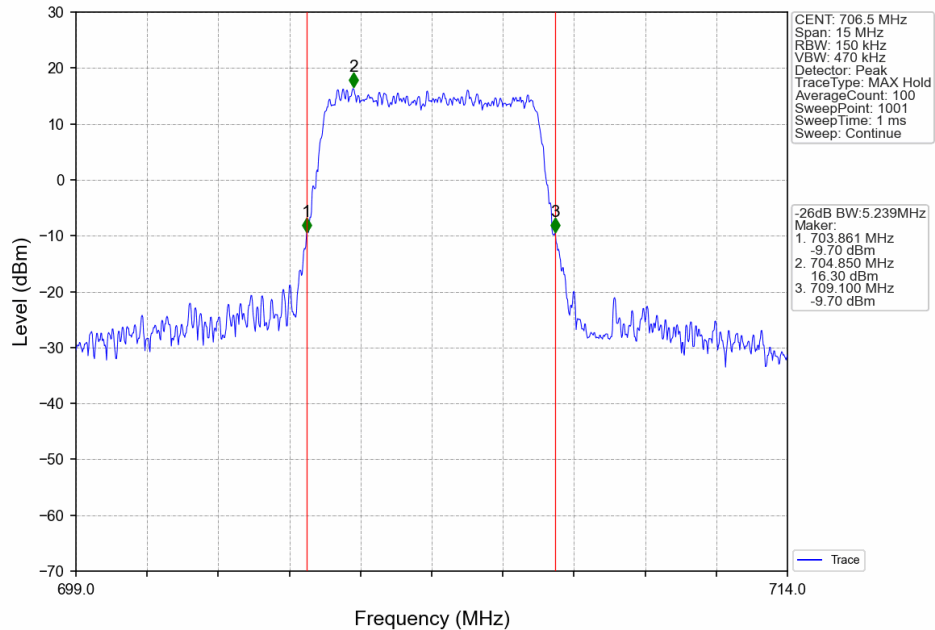
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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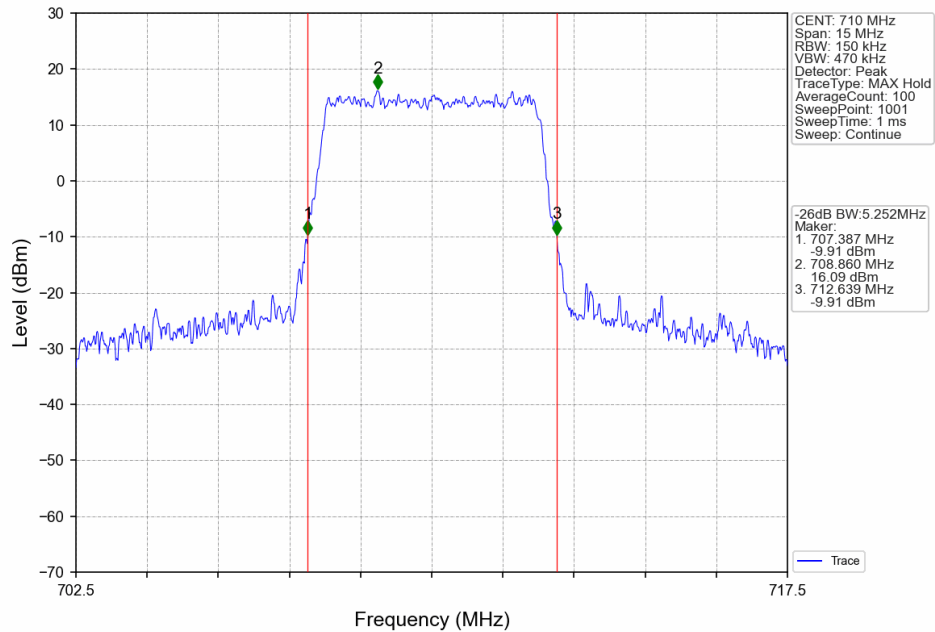
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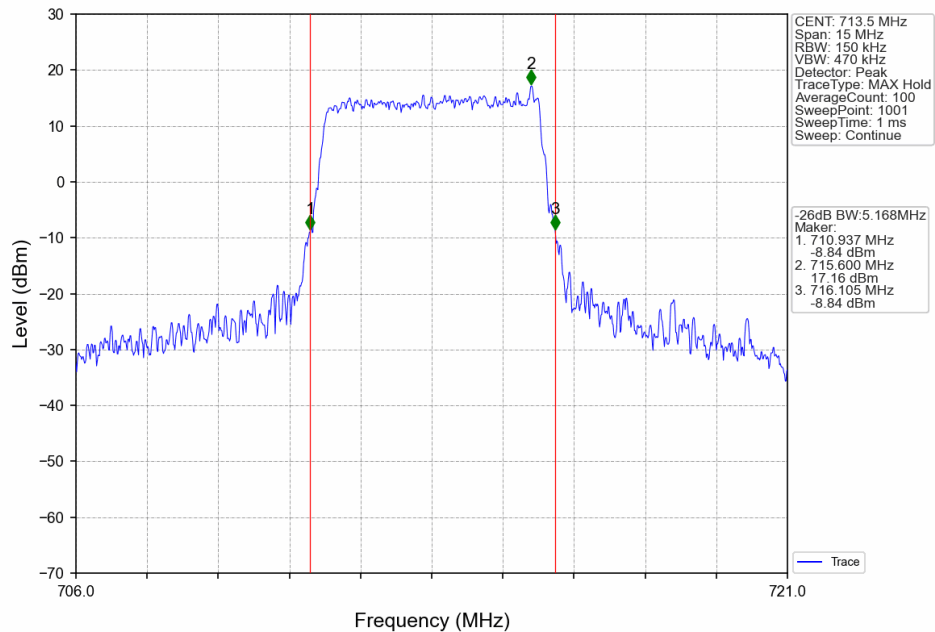
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Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



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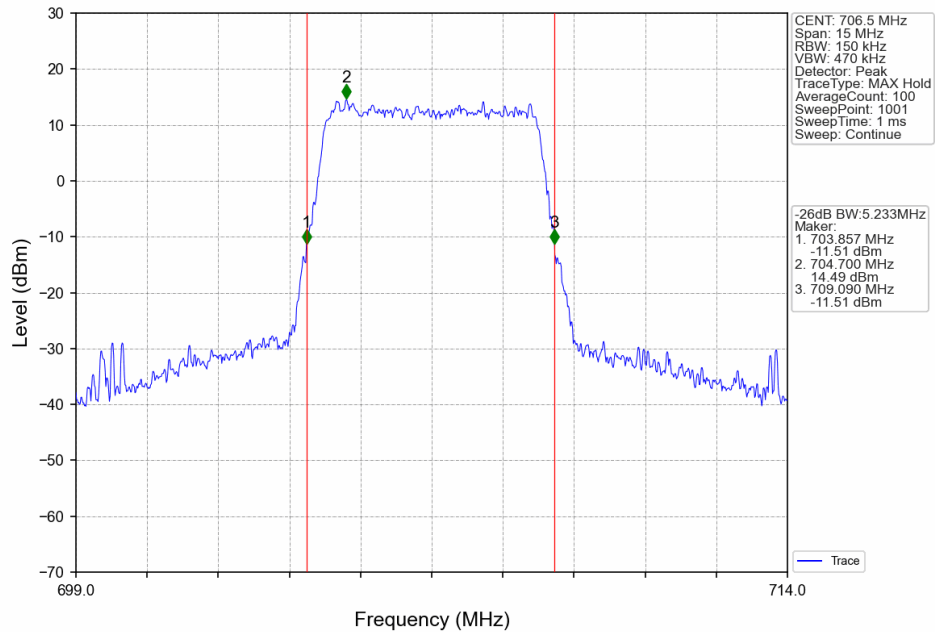
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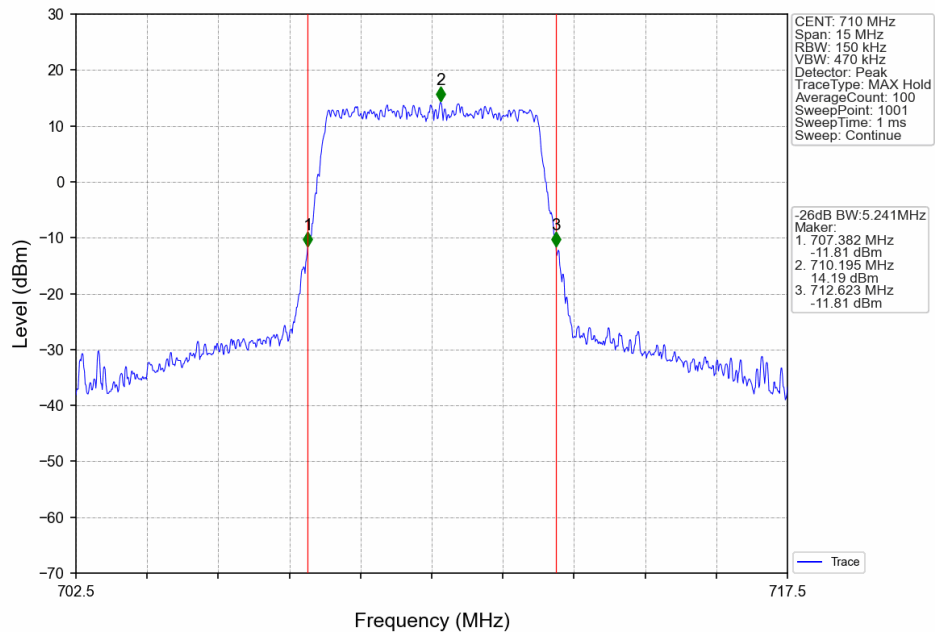
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Band17_5MHz_256QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_256QAM_HCH_713.5MHz_RB_25_0_NTNV



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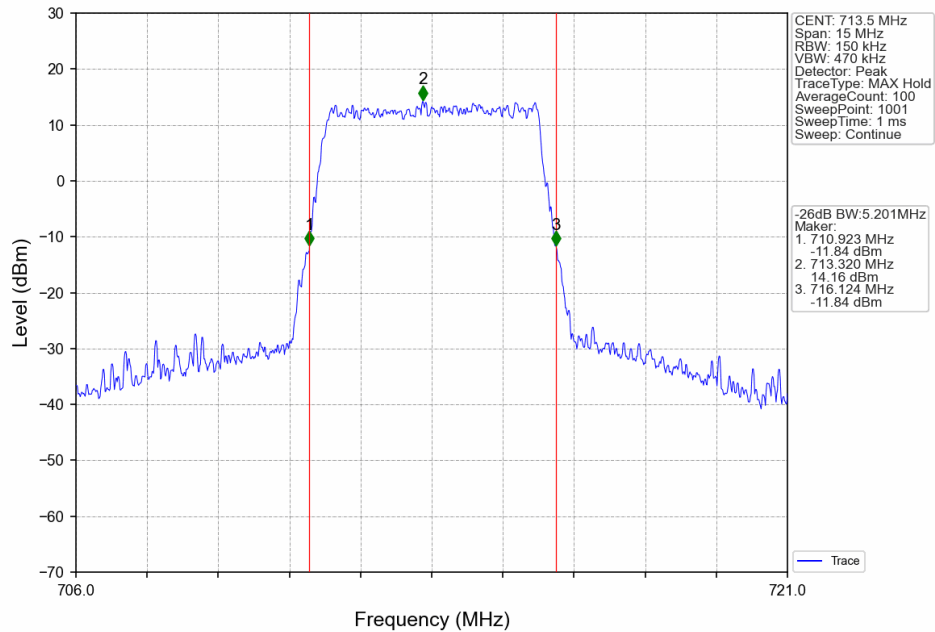
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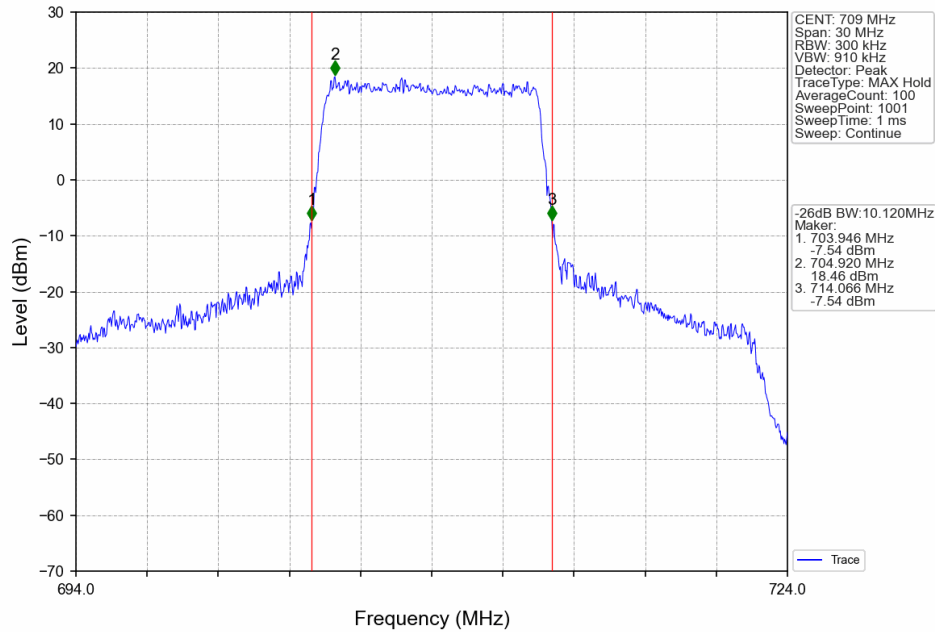
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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



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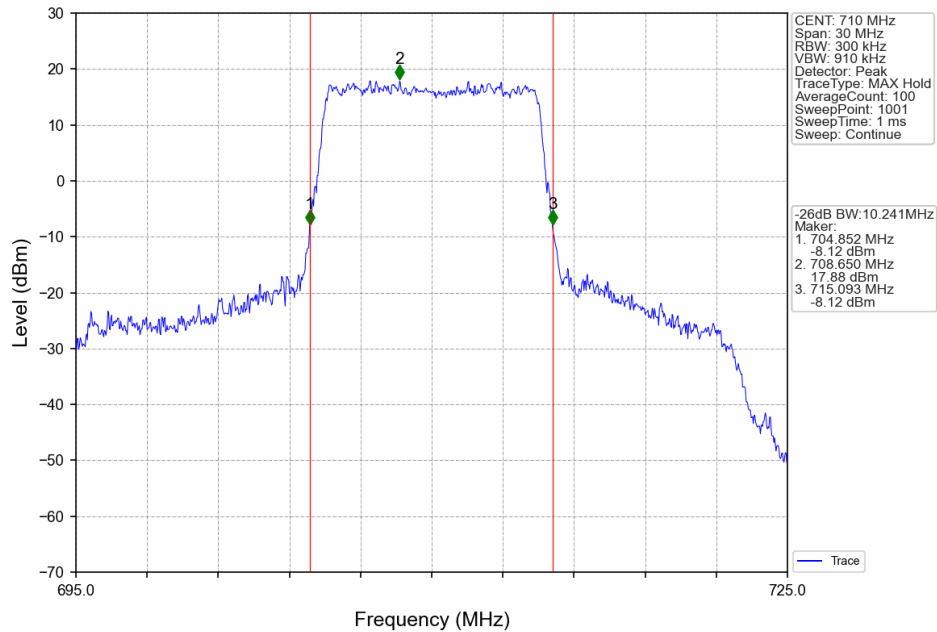
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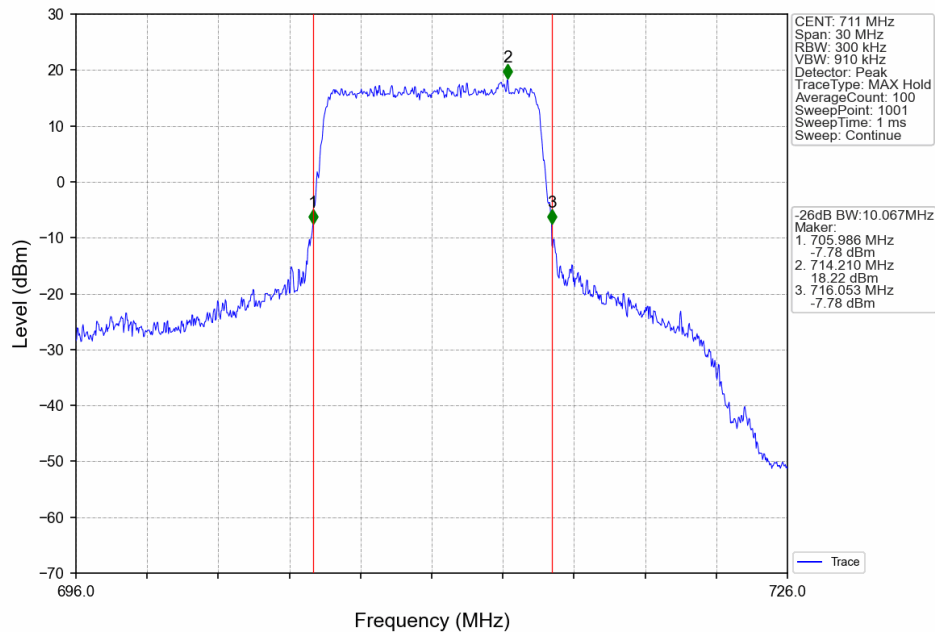
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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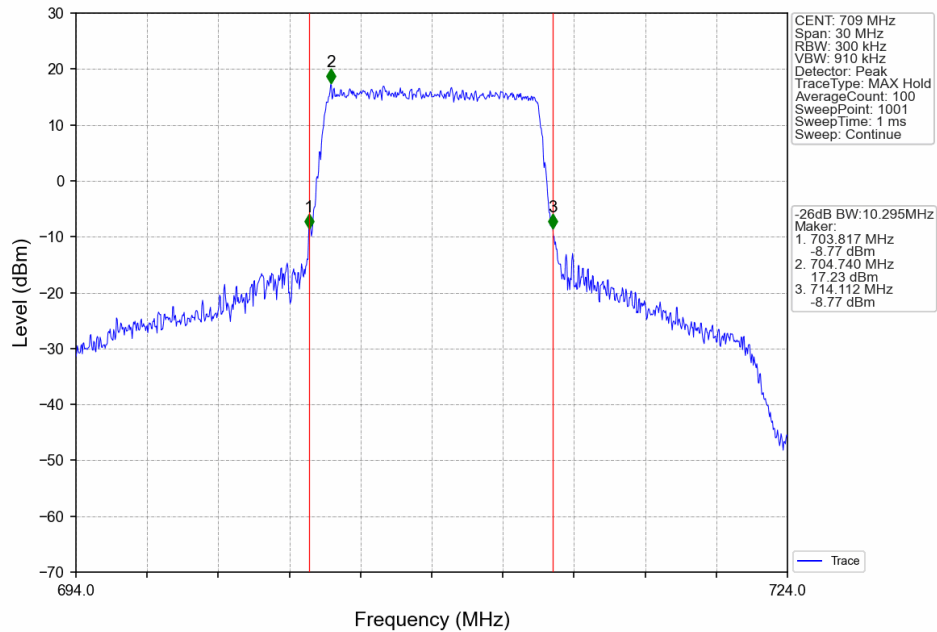
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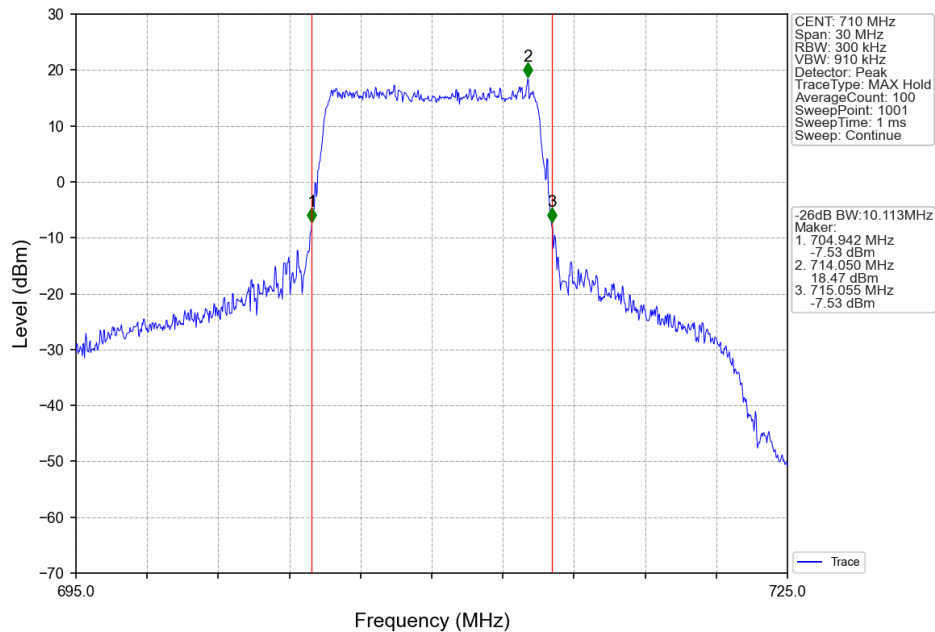
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Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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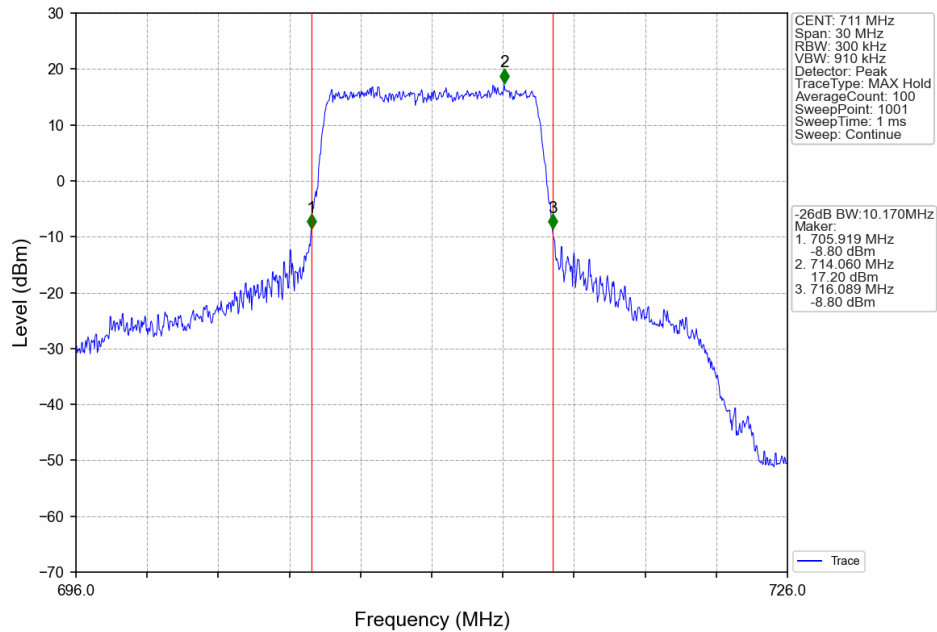
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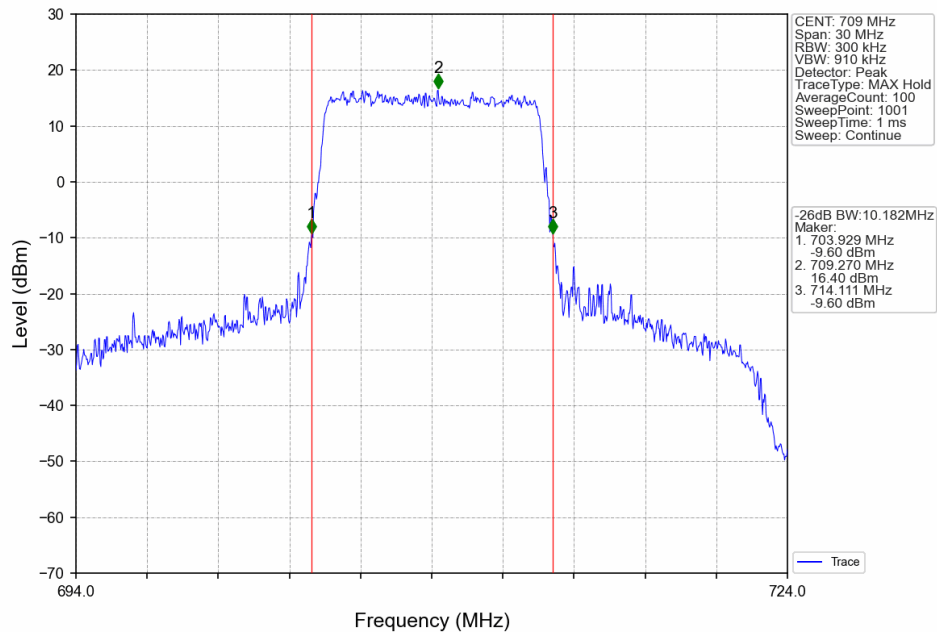
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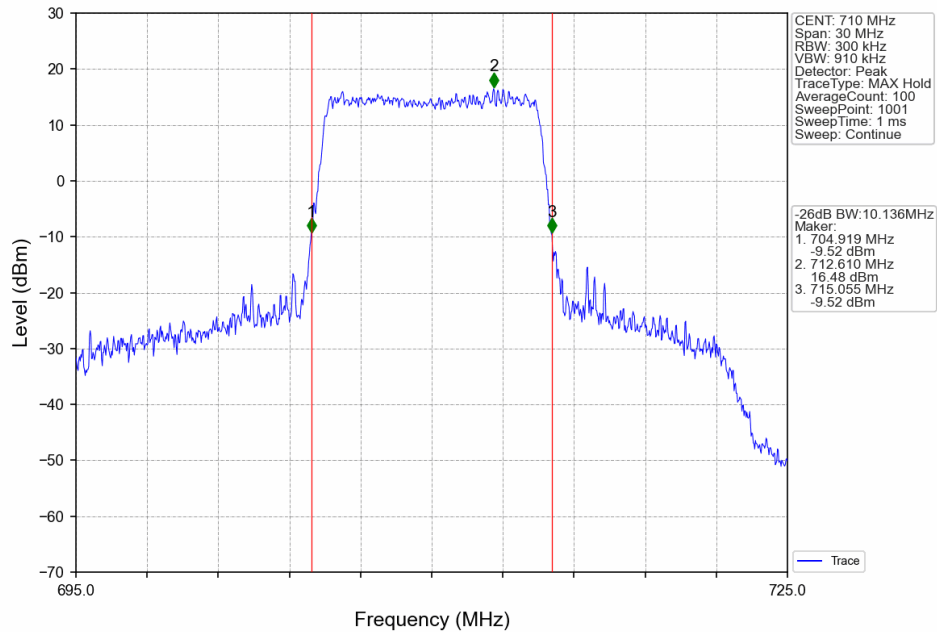
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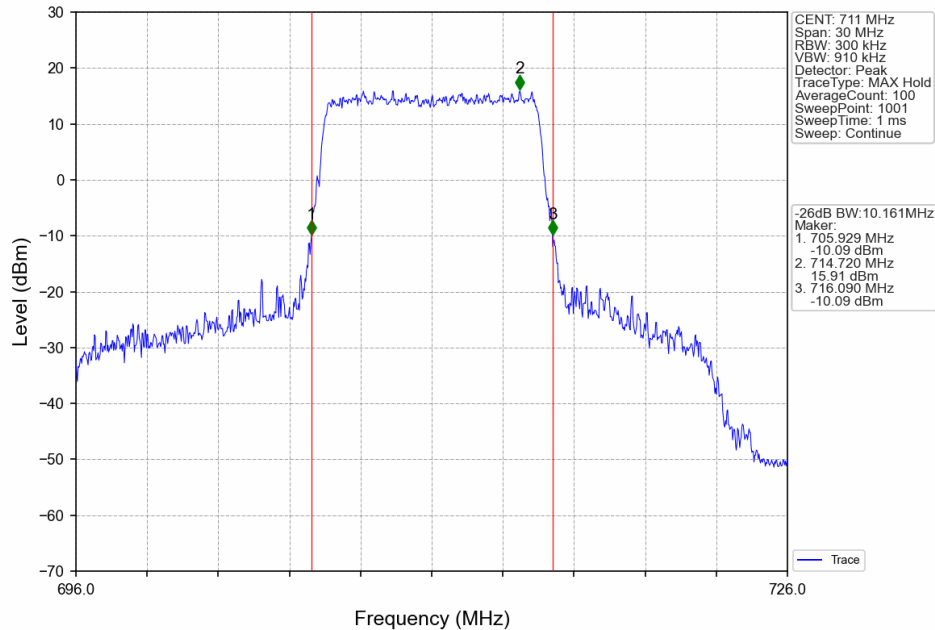
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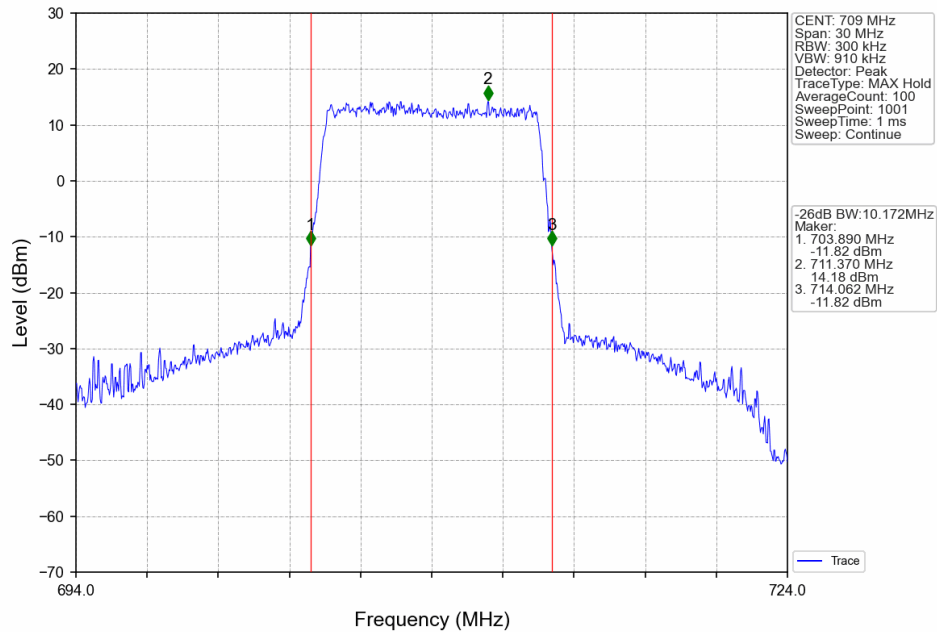
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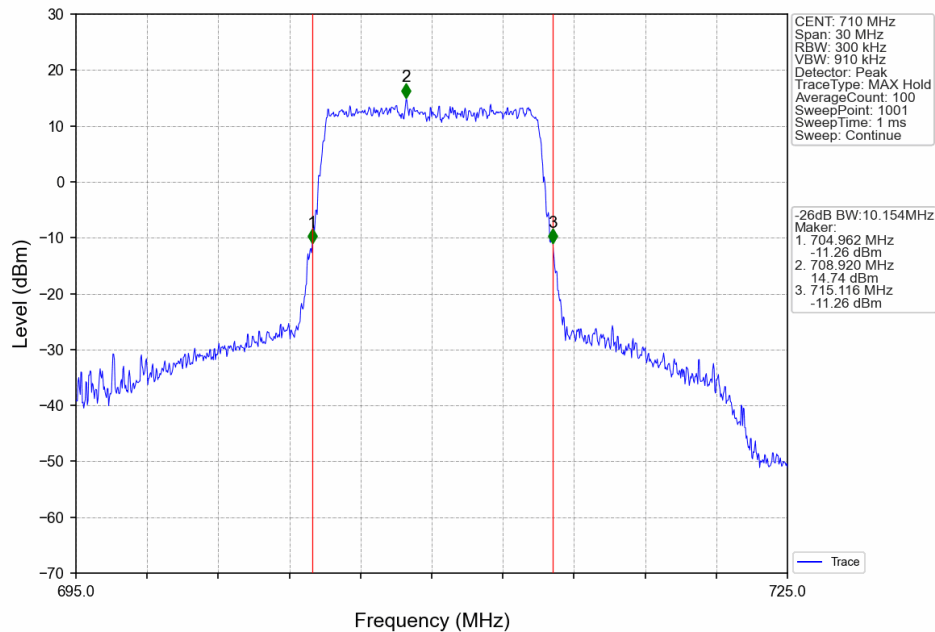
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Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTN



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTN



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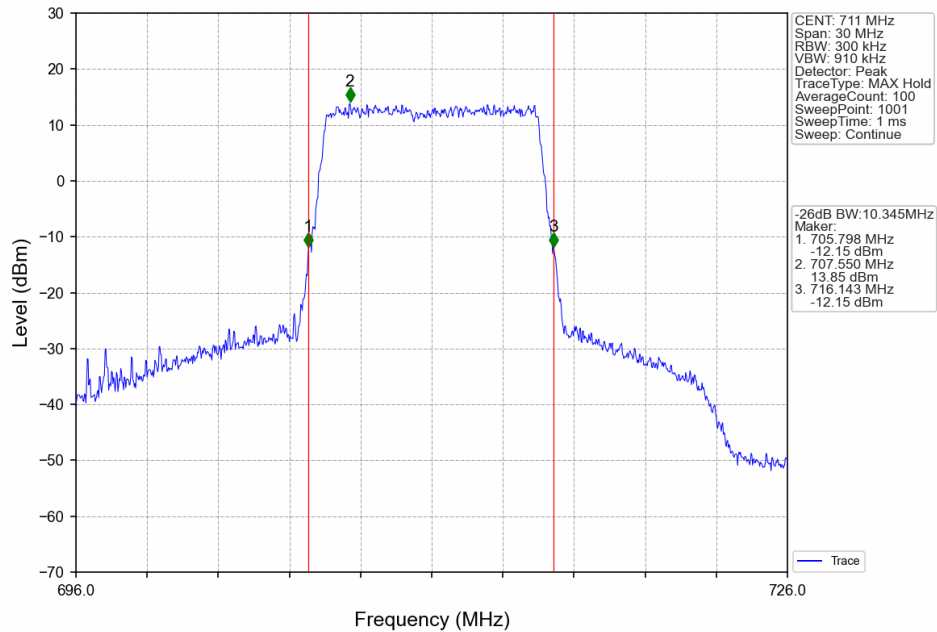
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5. Peak-Average Ratio

5.1 B17_5MHz

5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.31	<=13	Pass
	710	25	0	5.54	<=13	Pass
	713.5	25	0	5.30	<=13	Pass
16QAM	706.5	25	0	6.23	<=13	Pass
	710	25	0	6.41	<=13	Pass
	713.5	25	0	6.14	<=13	Pass
64QAM	706.5	25	0	10.69	<=13	Pass
	710	25	0	10.88	<=13	Pass
	713.5	25	0	9.96	<=13	Pass
256QAM	706.5	25	0	6.94	<=13	Pass
	710	25	0	7.03	<=13	Pass
	713.5	25	0	6.90	<=13	Pass



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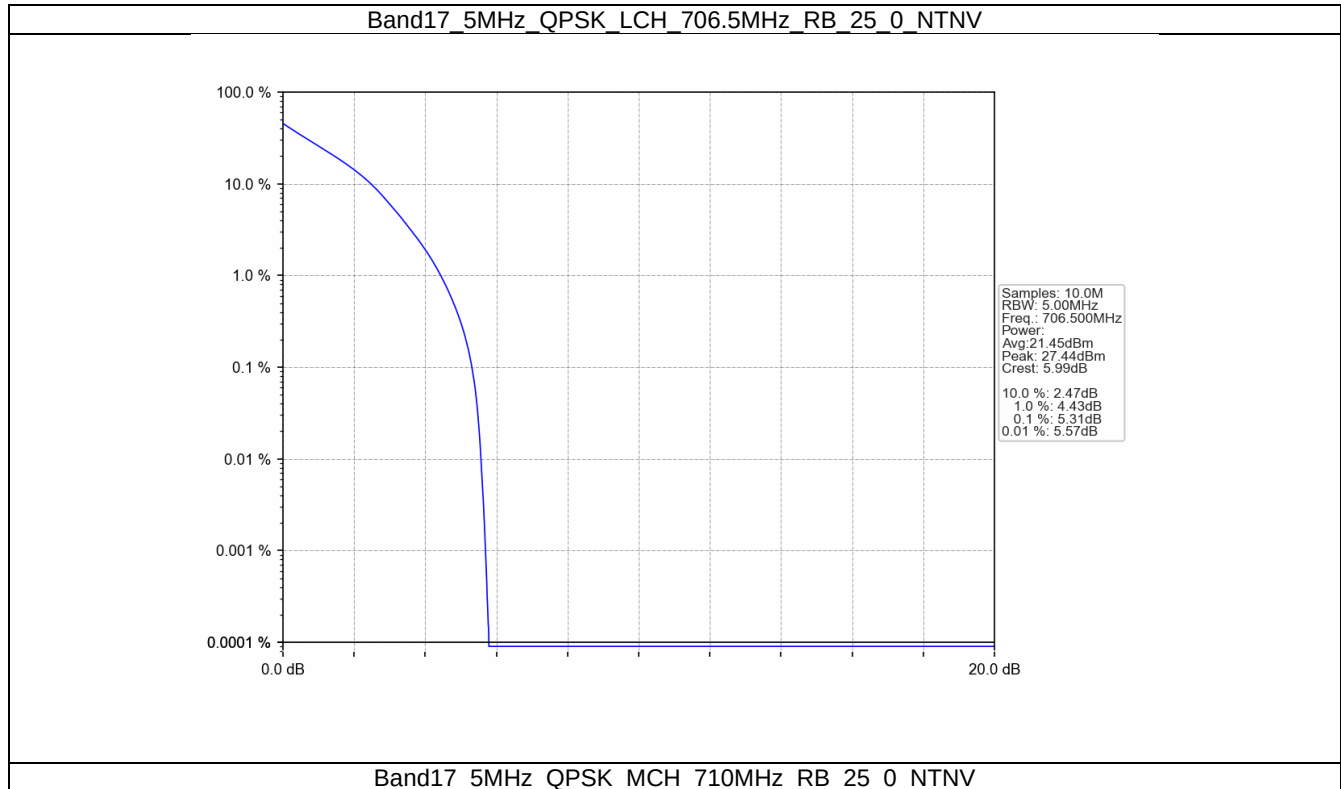
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5.1.2 Test Graph



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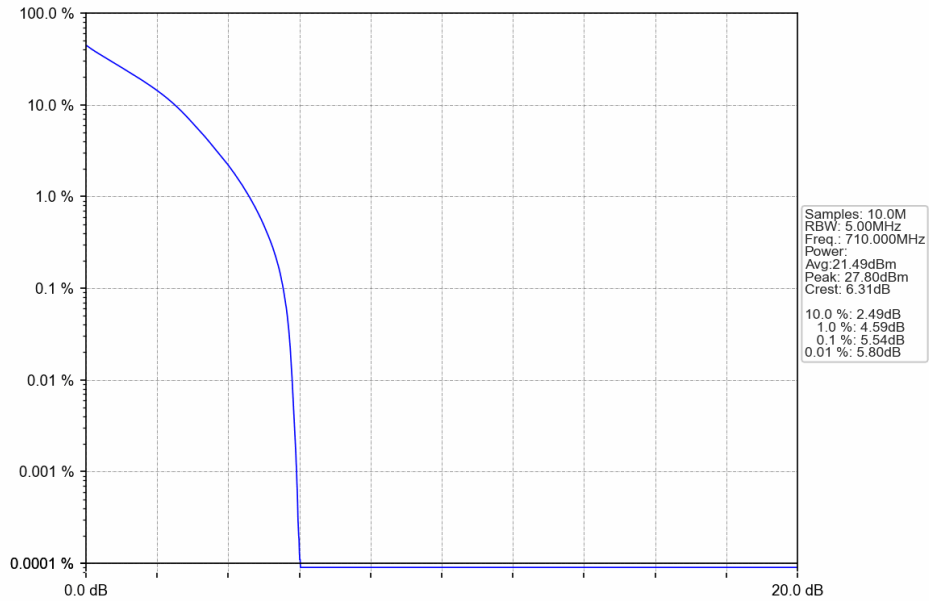
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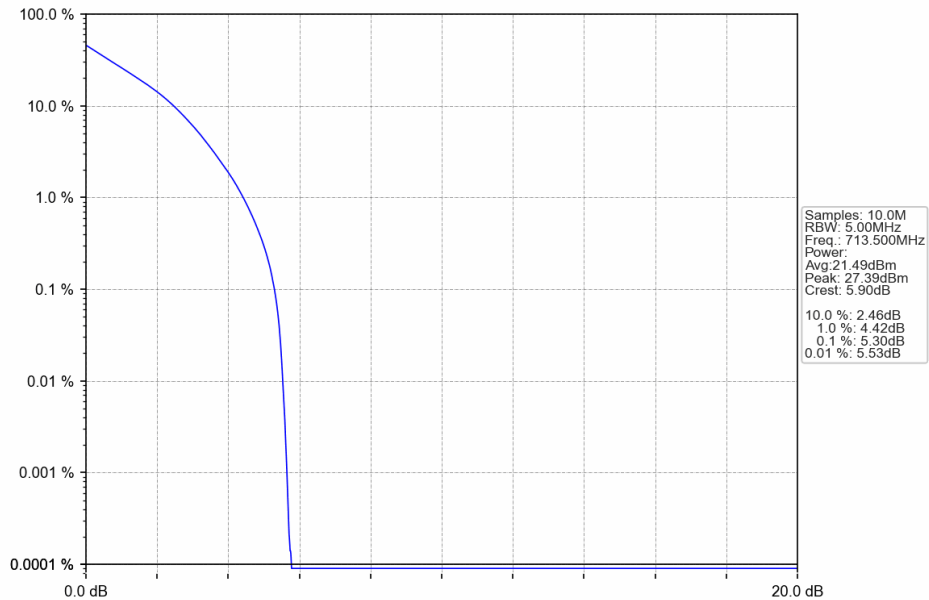
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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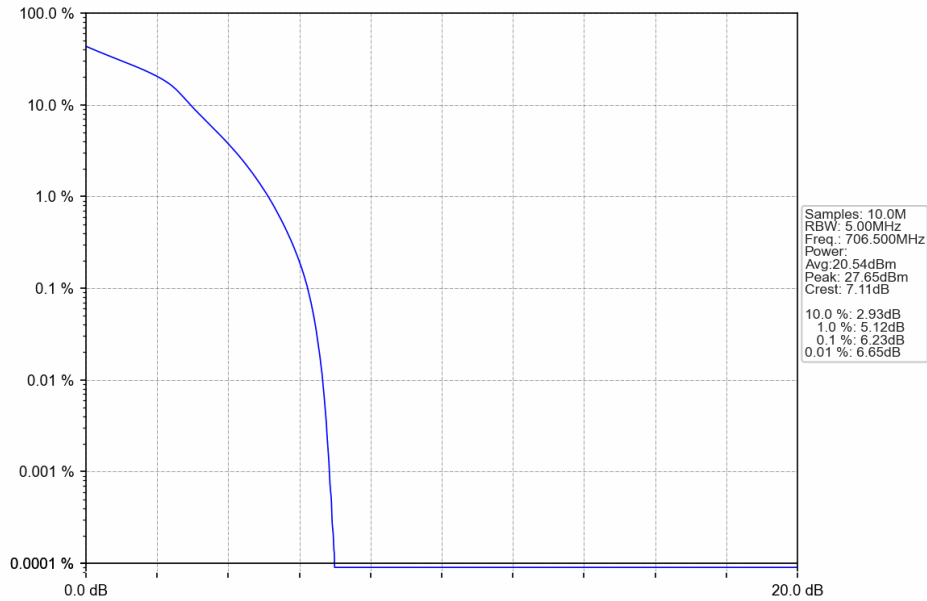
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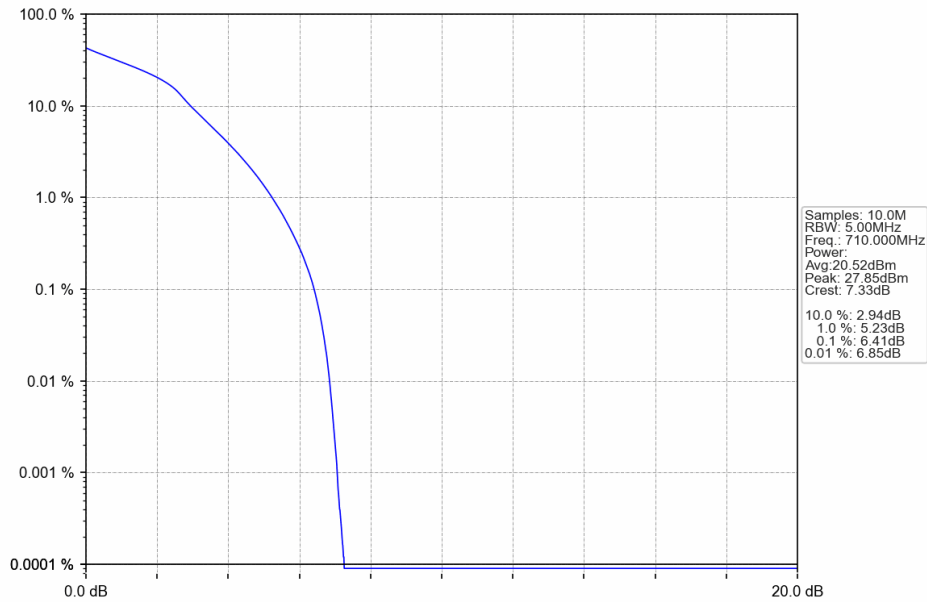
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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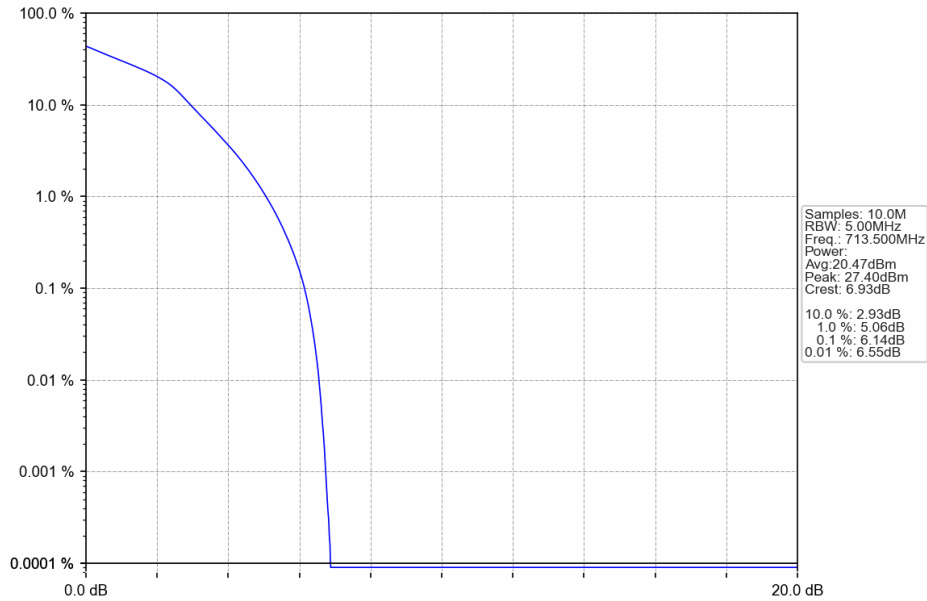
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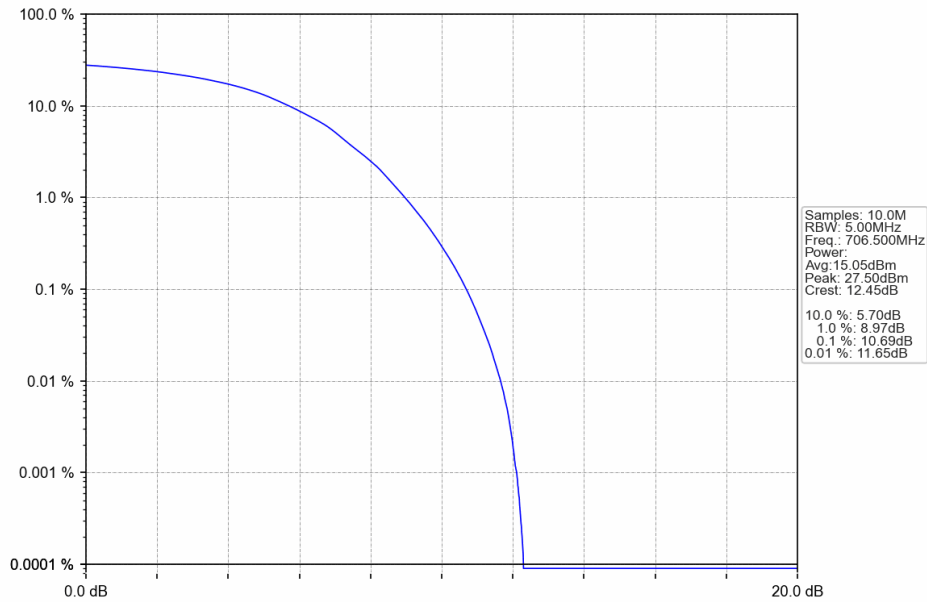
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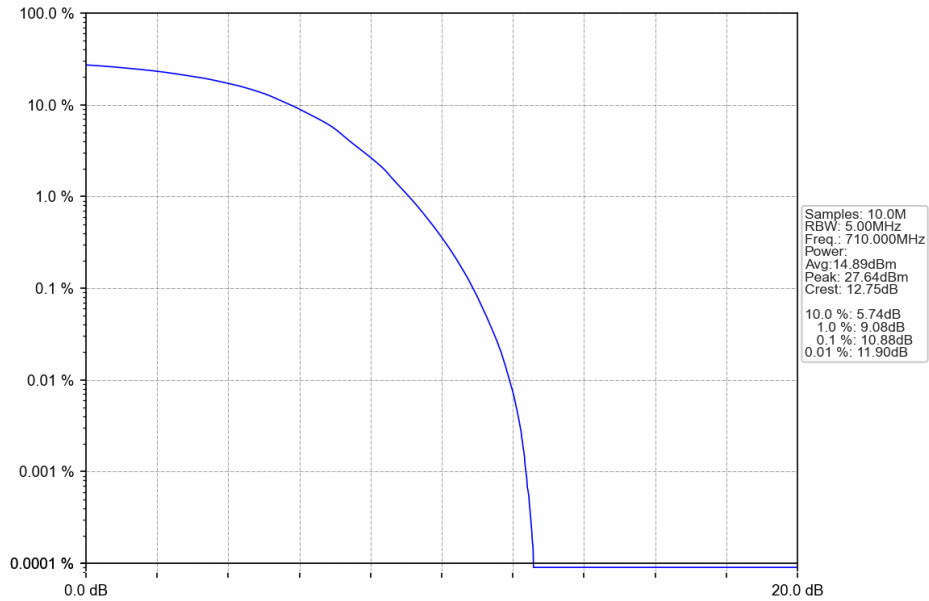
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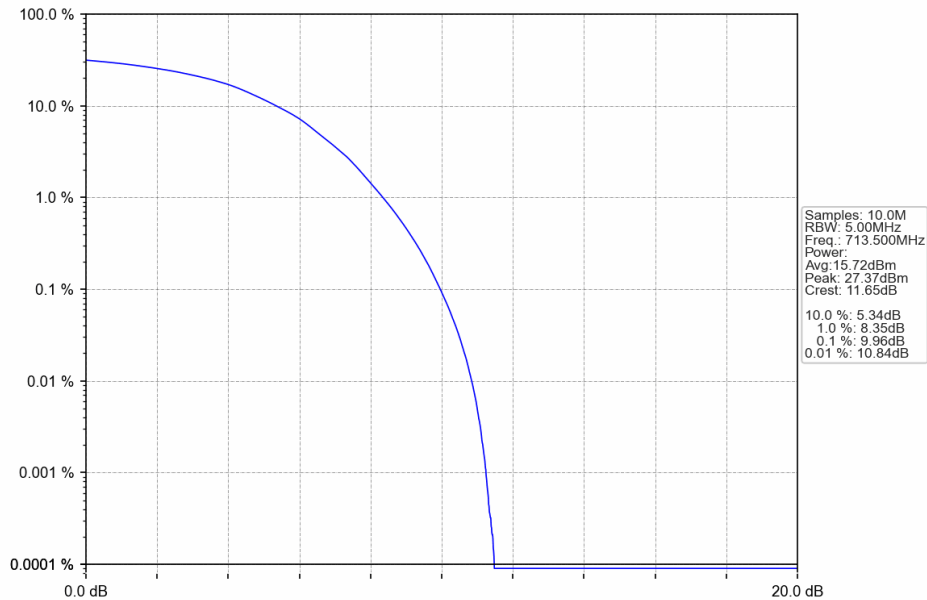
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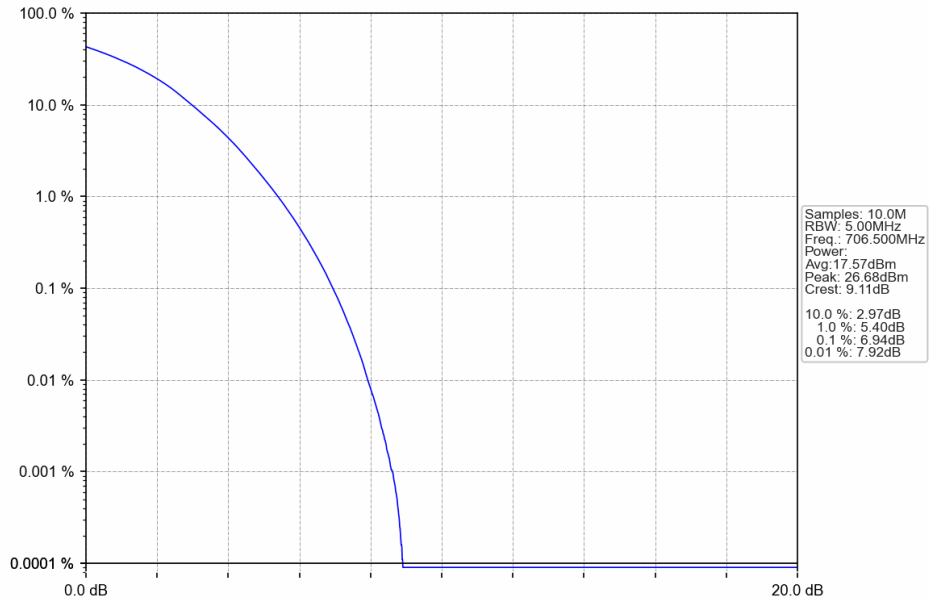
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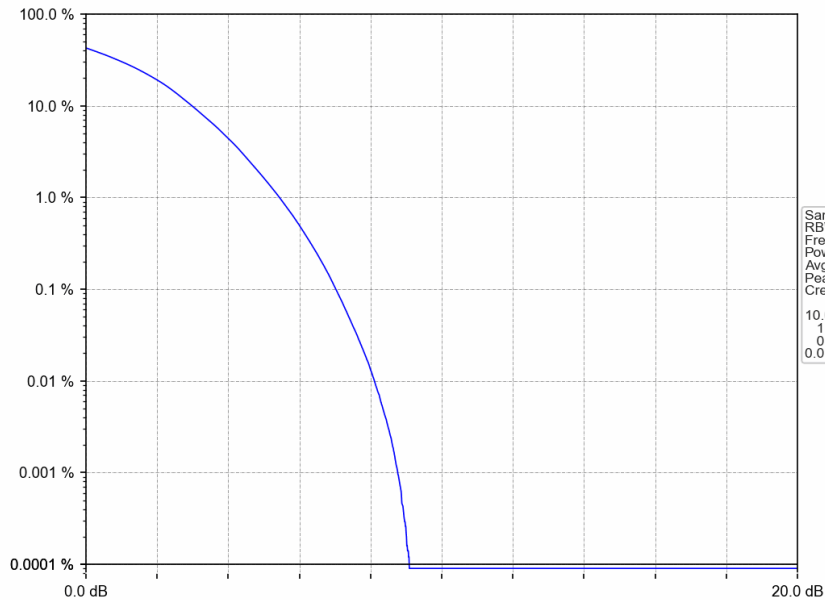
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Band17_5MHz_256QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_256QAM_HCH_713.5MHz_RB_25_0_NTNV



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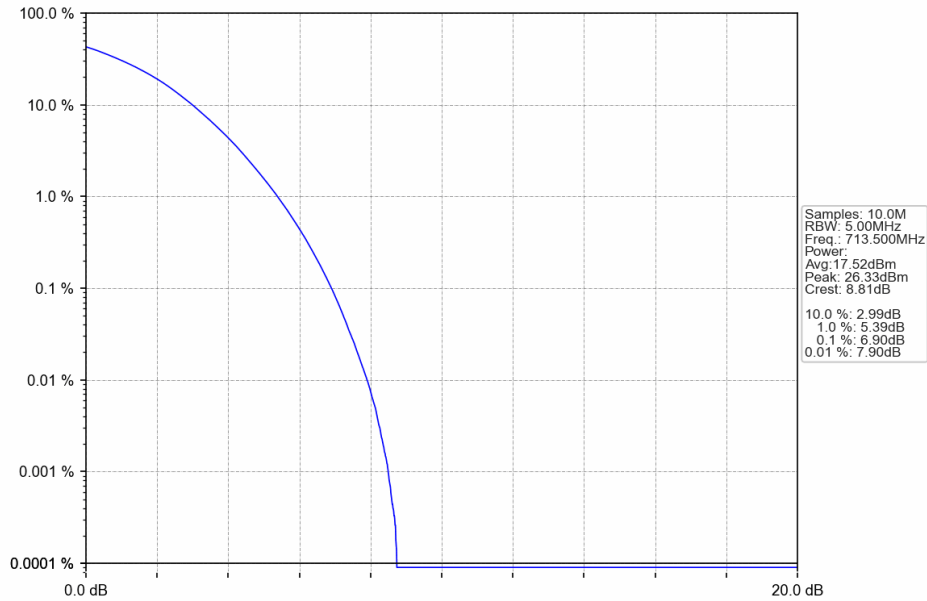
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5.2 B17_10MHz

5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.44	<=13	Pass
	710	50	0	5.46	<=13	Pass
	711	50	0	5.45	<=13	Pass
16QAM	709	50	0	6.28	<=13	Pass
	710	50	0	6.30	<=13	Pass
	711	50	0	6.29	<=13	Pass
64QAM	709	50	0	6.70	<=13	Pass
	710	50	0	12.63	<=13	Pass
	711	50	0	11.96	<=13	Pass
256QAM	709	50	0	6.93	<=13	Pass
	710	50	0	6.95	<=13	Pass
	711	50	0	6.94	<=13	Pass



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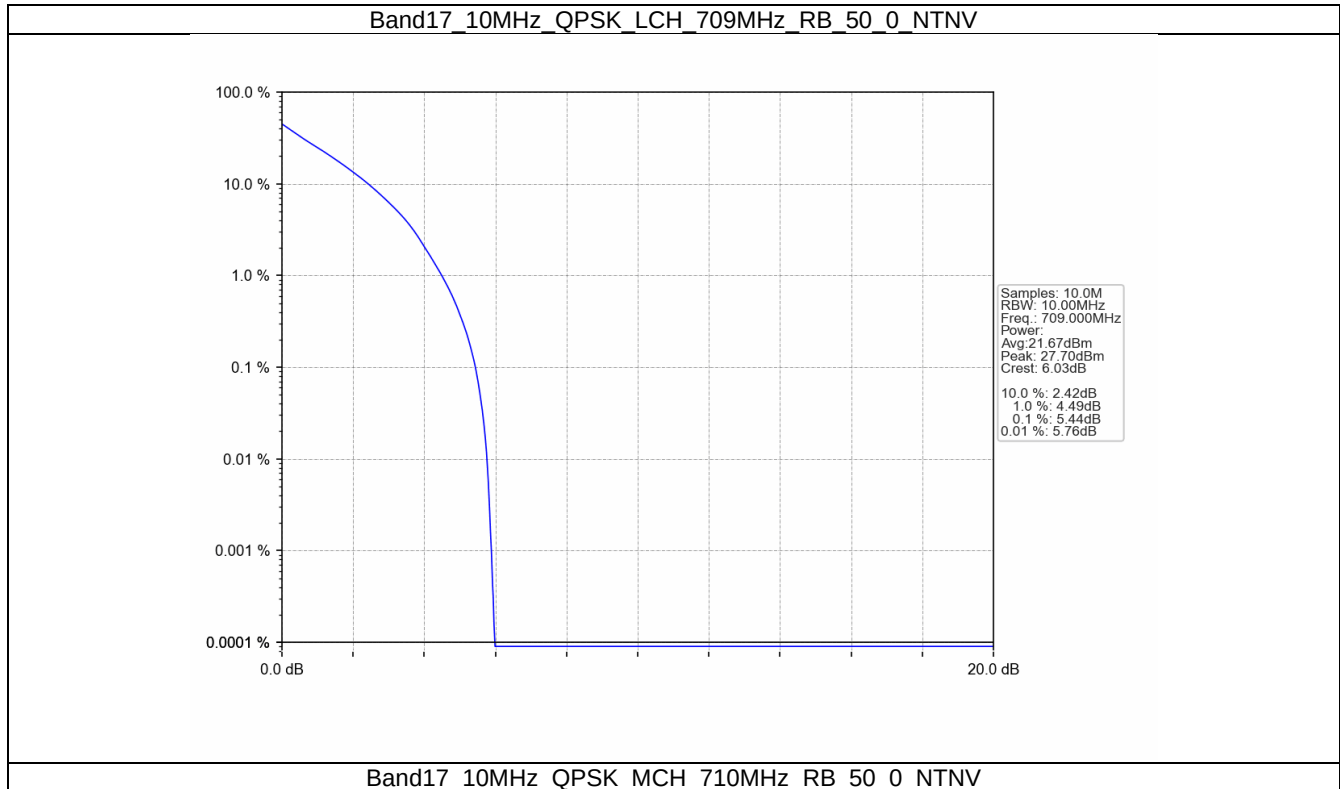
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5.2.2 Test Graph



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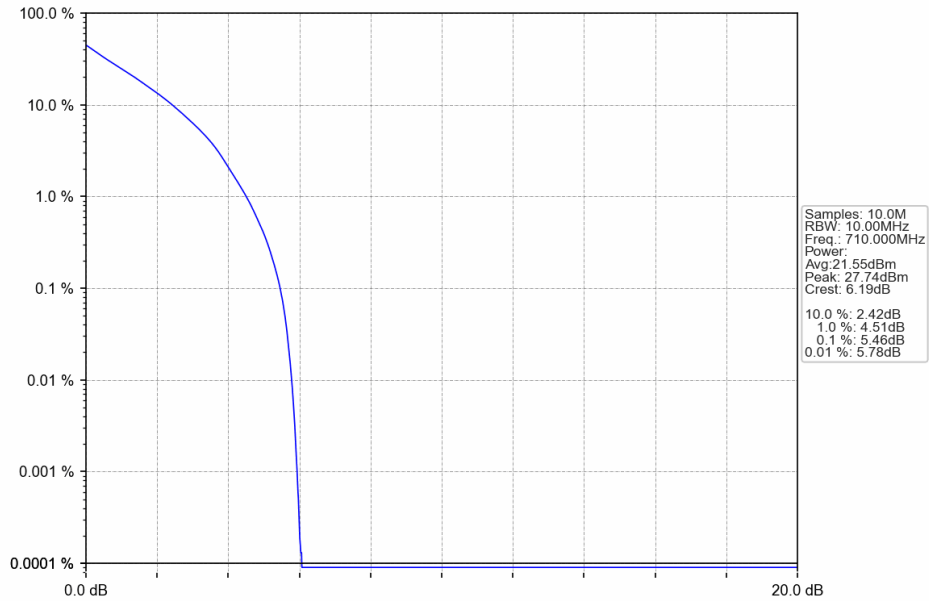
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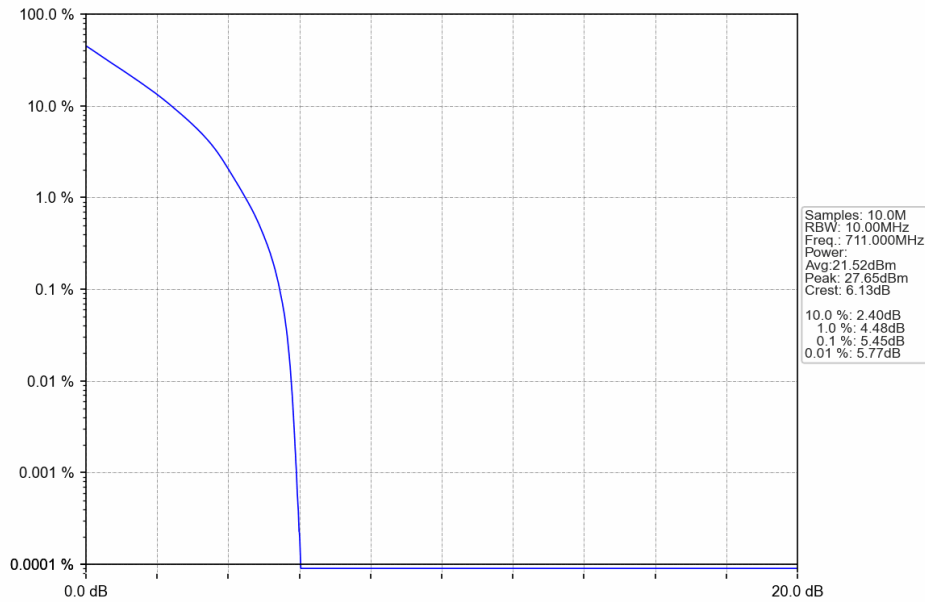
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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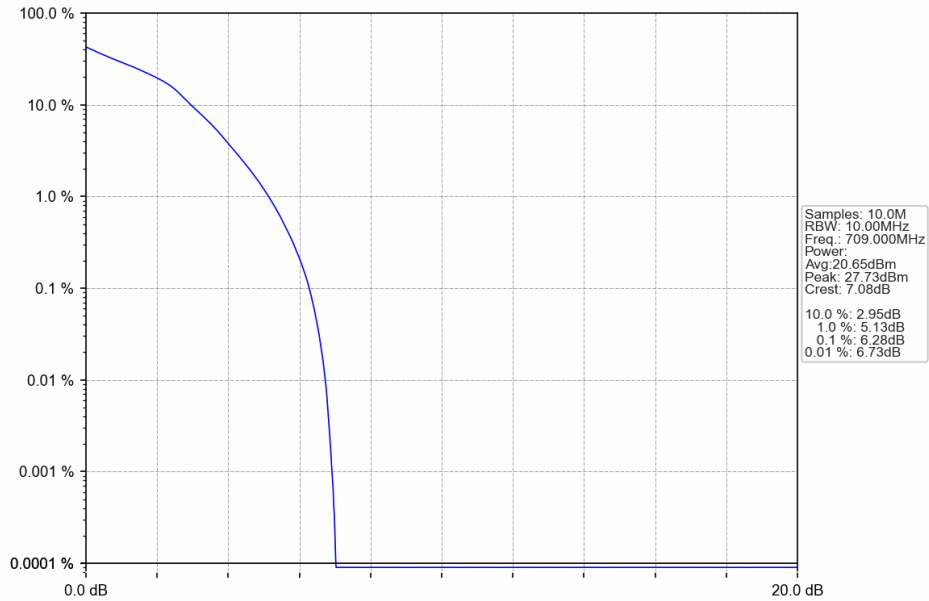
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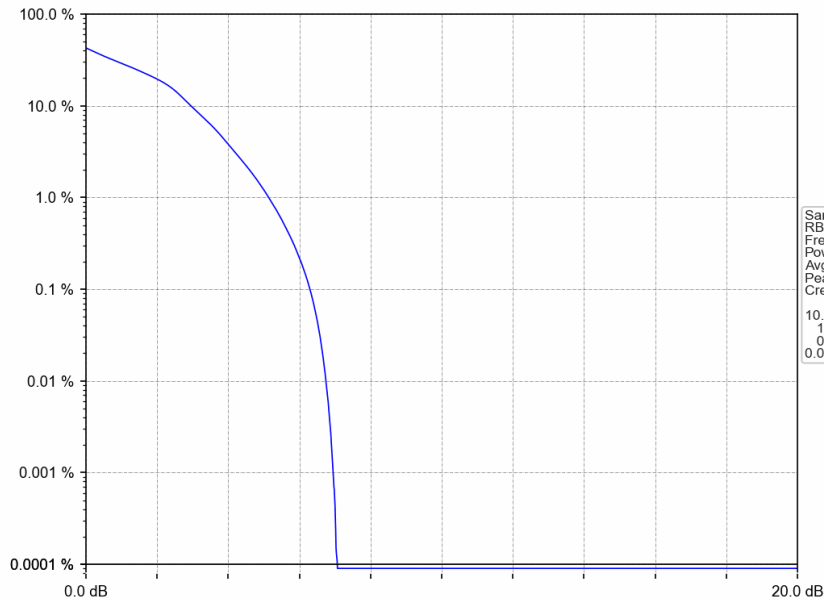
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Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 710.000MHz
Power:
Avg: 20.57dBm
Peak: 27.73dBm
Crest: 7.16dB
10.0 %: 2.95dB
1.0 %: 5.14dB
0.1 %: 6.30dB
0.01 %: 6.75dB

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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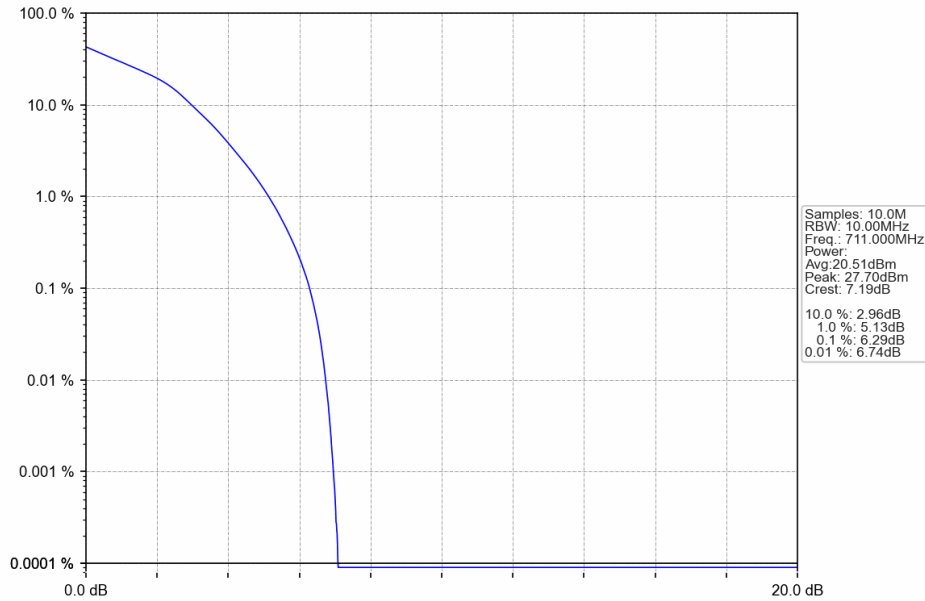
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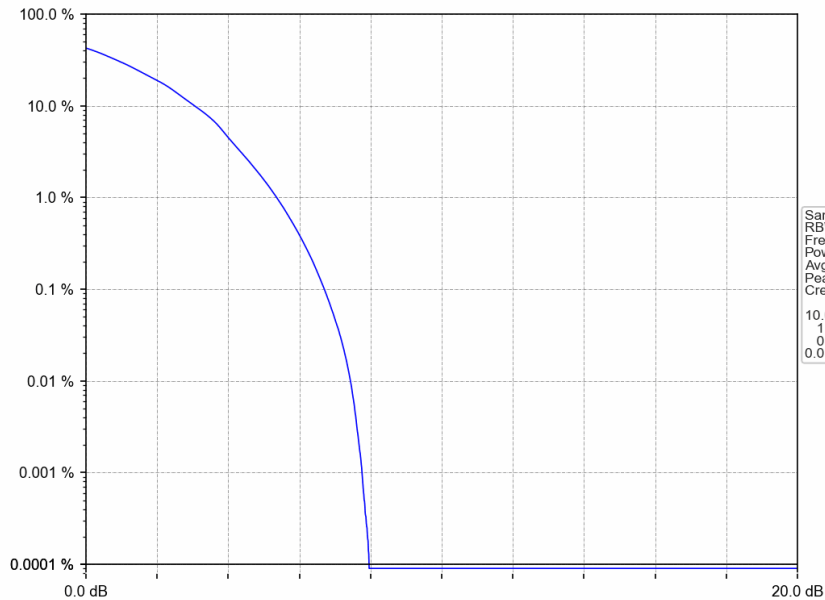
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Samples: 10.0M
RBW: 10.00MHz
Freq.: 709.000MHz
Power:
Avg: 19.67dBm
Peak: 27.75dBm
Crest: 8.08dB
10.0 %: 3.05dB
1.0 %: 5.36dB
0.1 %: 6.70dB
0.01 %: 7.43dB

Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



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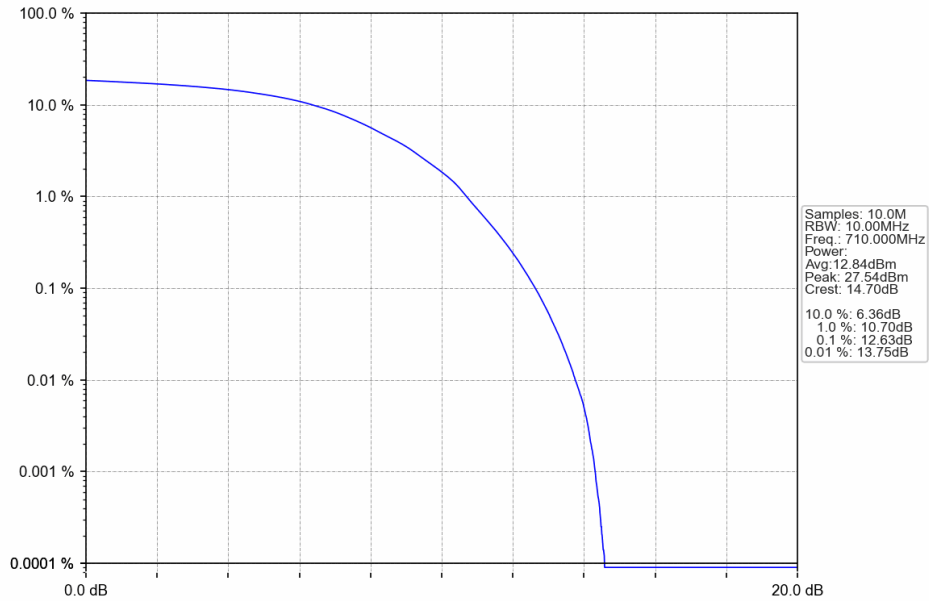
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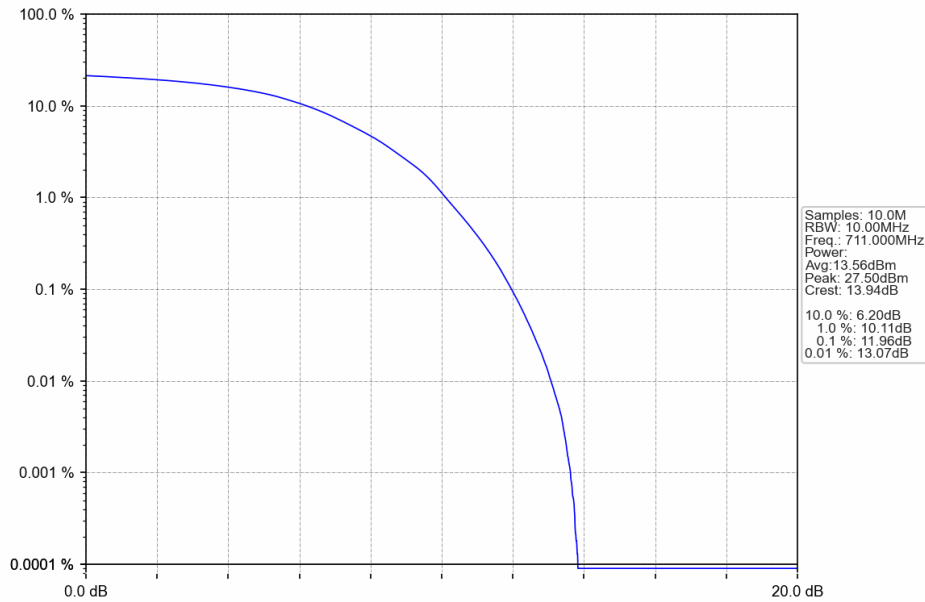
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Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTNV



Band17 10MHz 256QAM LCH 709MHz RB 50 0 NTNV



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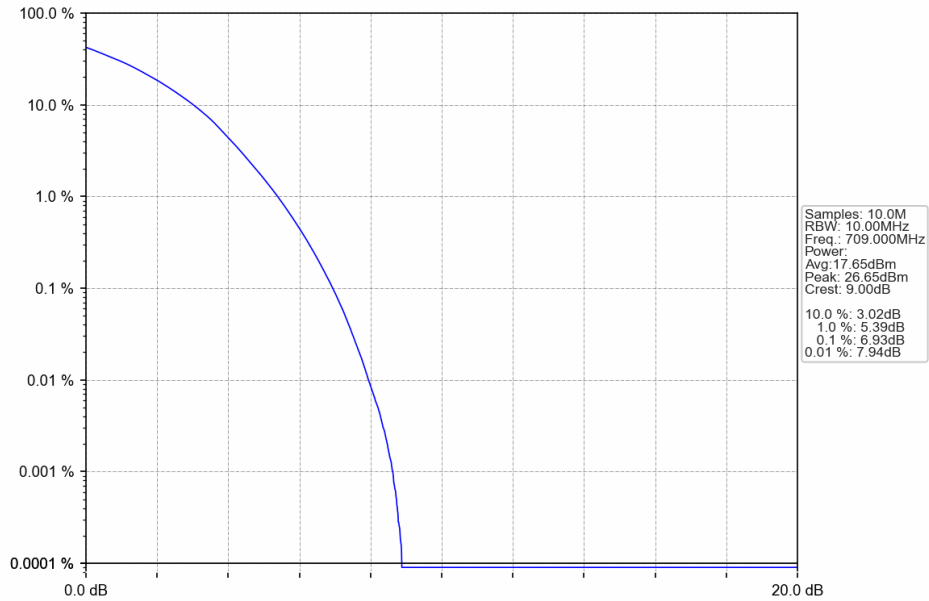
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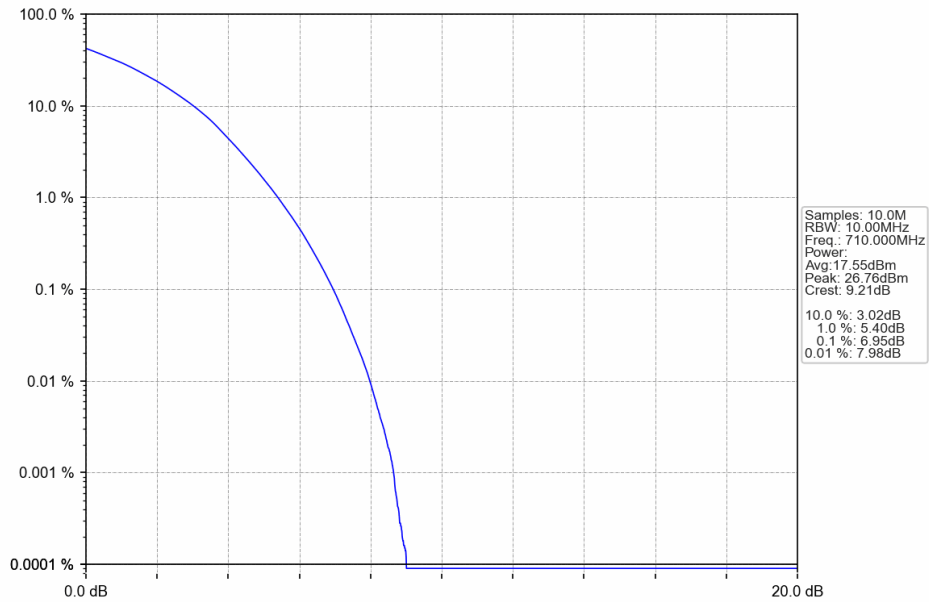
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Band17 10MHz 256QAM MCH 710MHz RB 50 0 NTN



Band17 10MHz 256QAM HCH 711MHz RB 50 0 NTN



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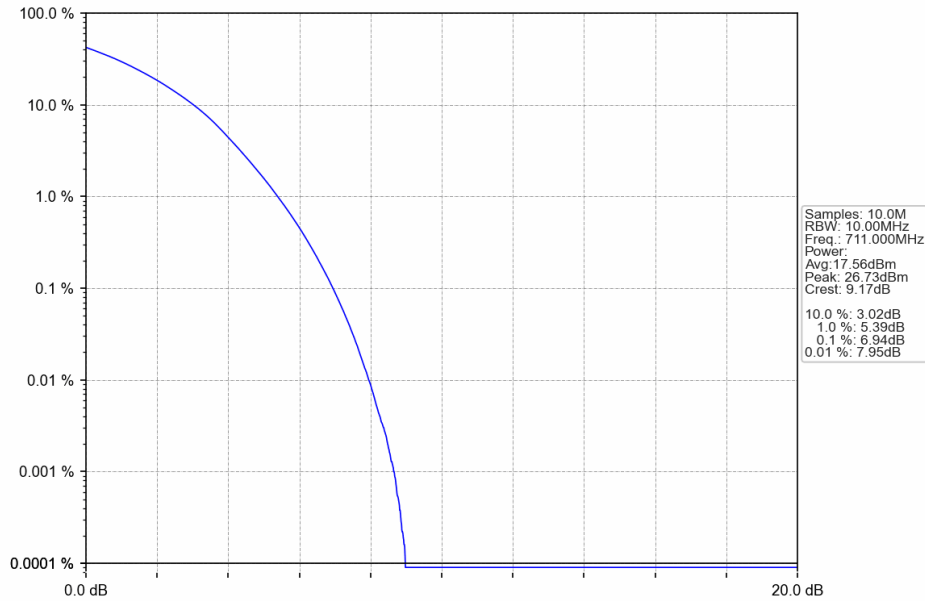
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6. Spurious Emission & Band Edges

6.1 B17_5MHz

6.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	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



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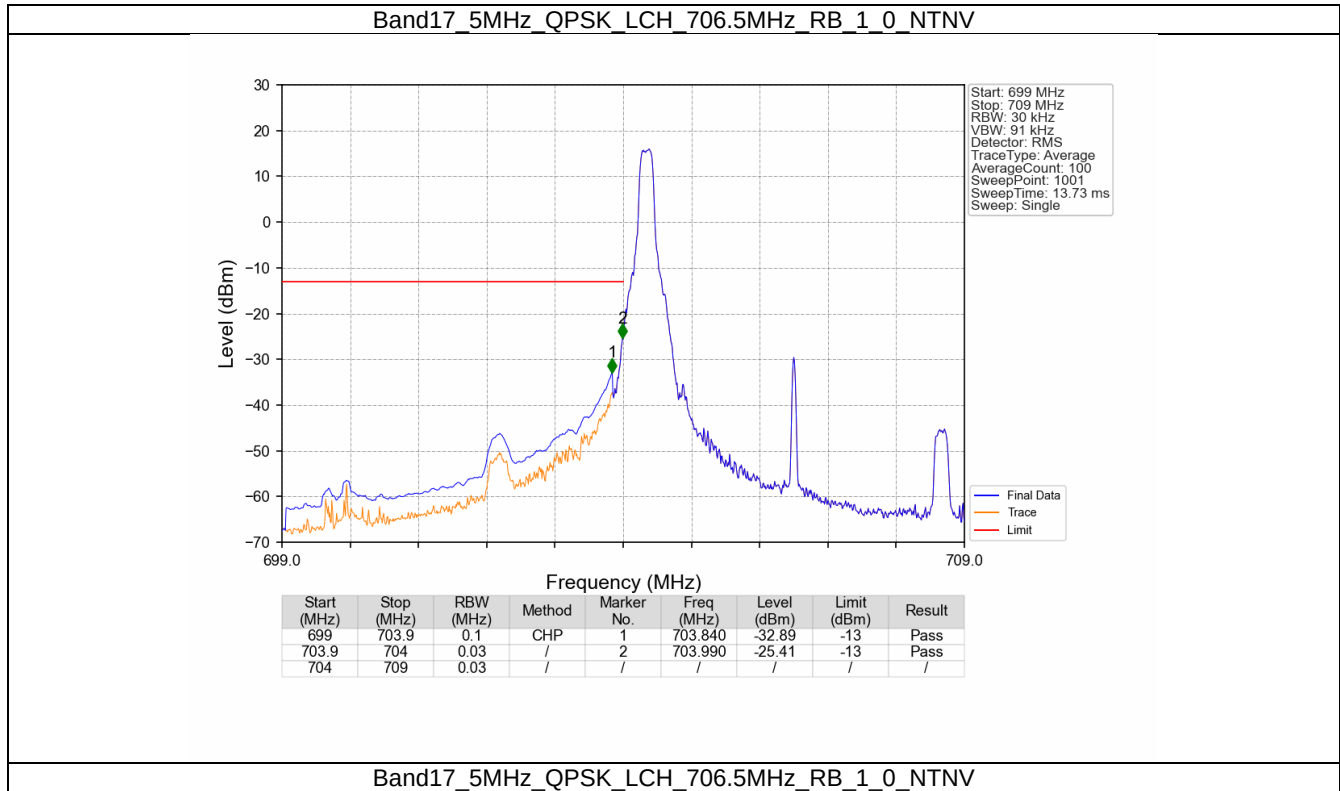
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6.1.2 Test Graph



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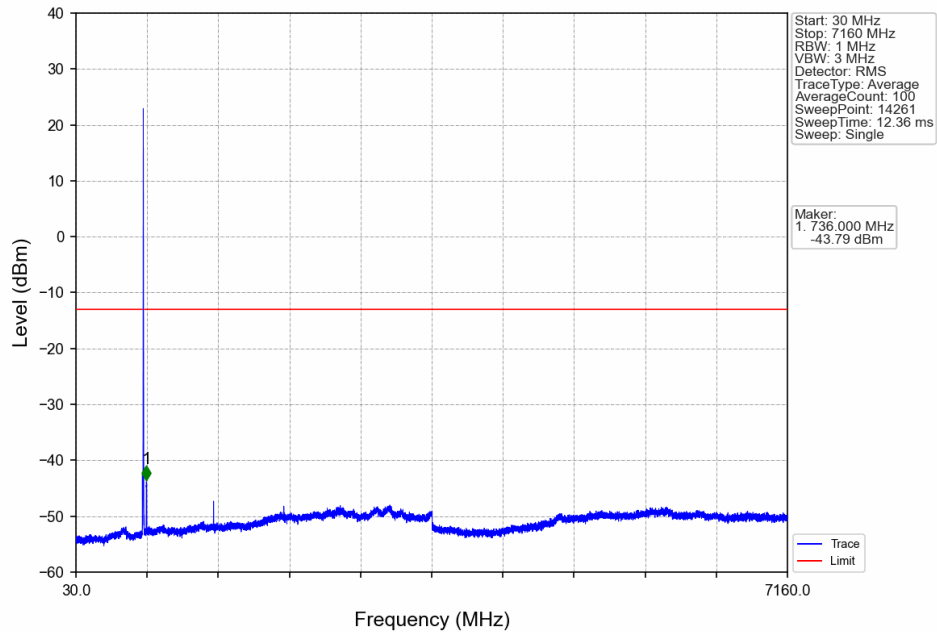
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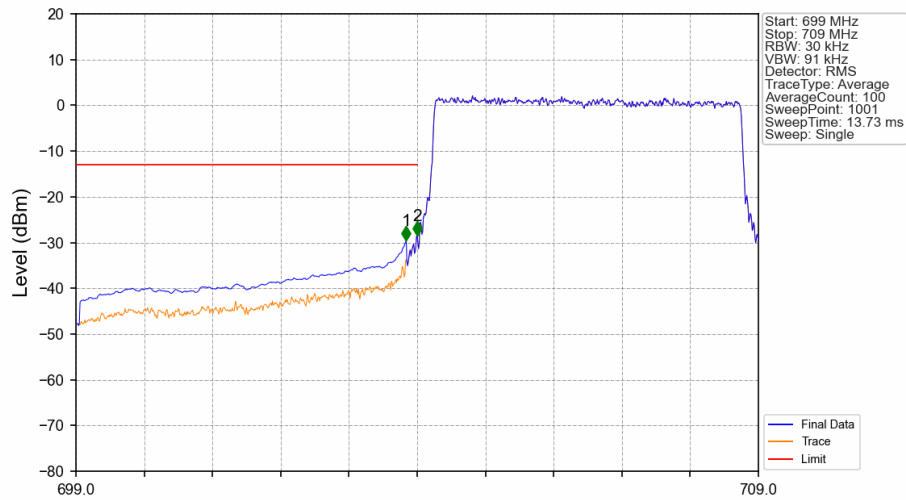
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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.52	-13	Pass
703.9	704	0.03	/	2	704.000	-28.57	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



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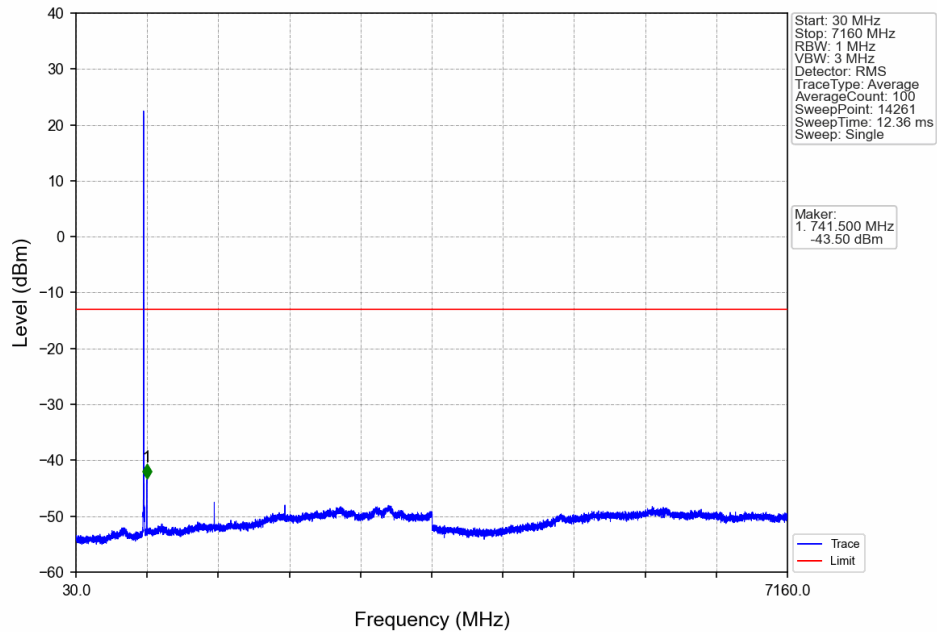
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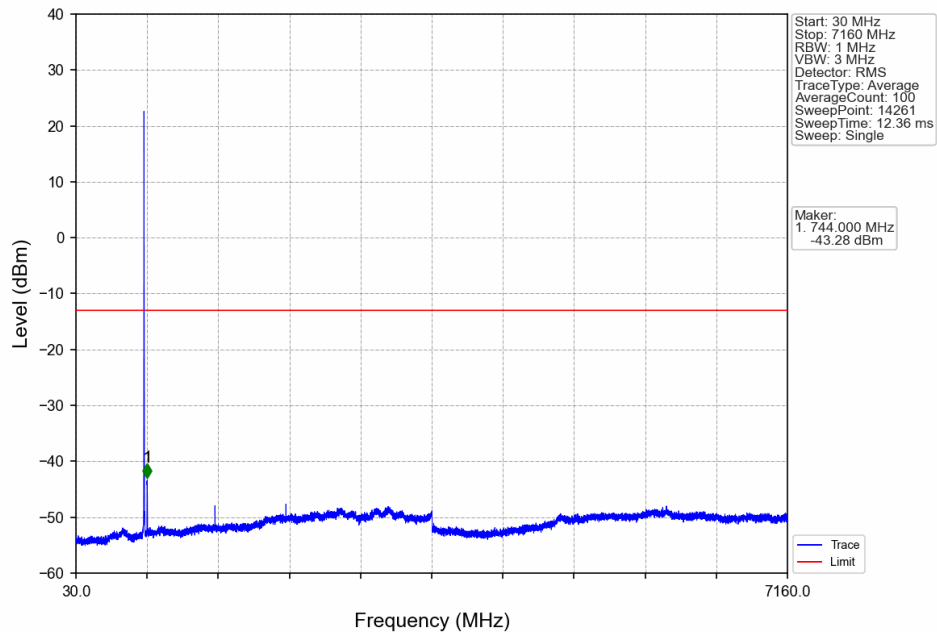
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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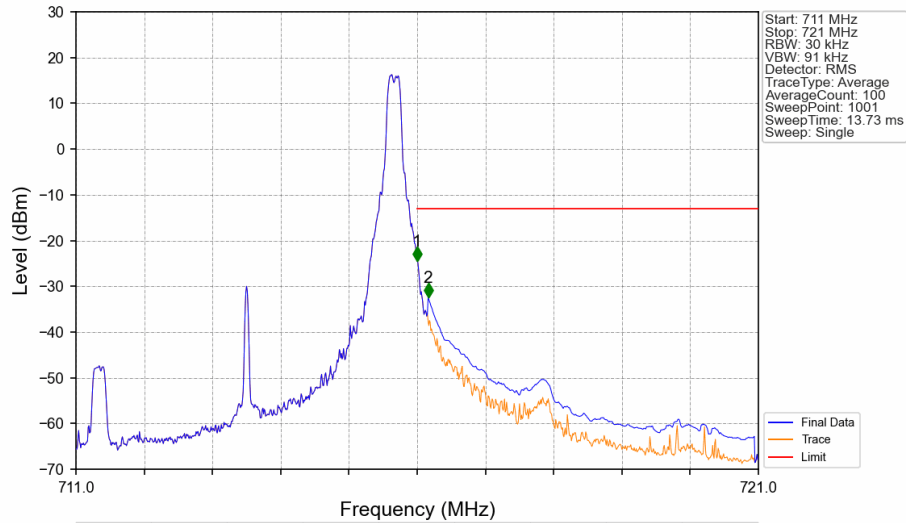
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.51	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.44	-13	Pass



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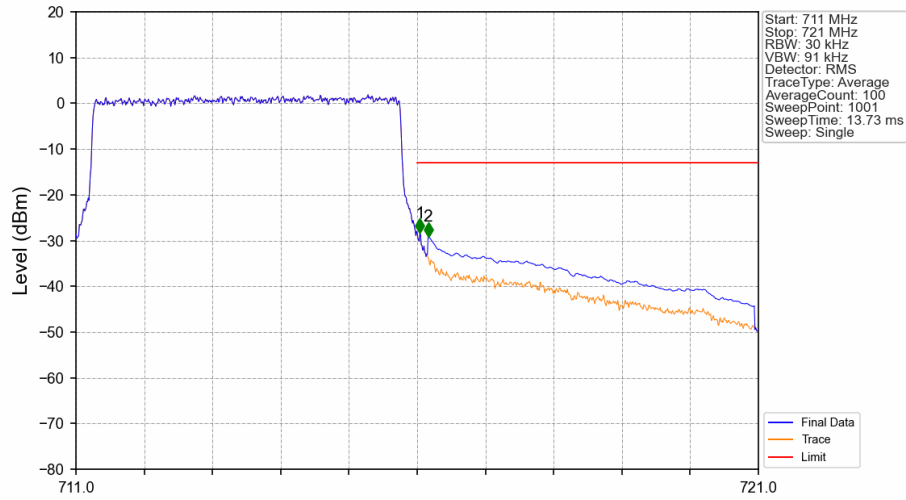
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.040	-28.29	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.12	-13	Pass



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6.2 B17_10MHz

6.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	709	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	710	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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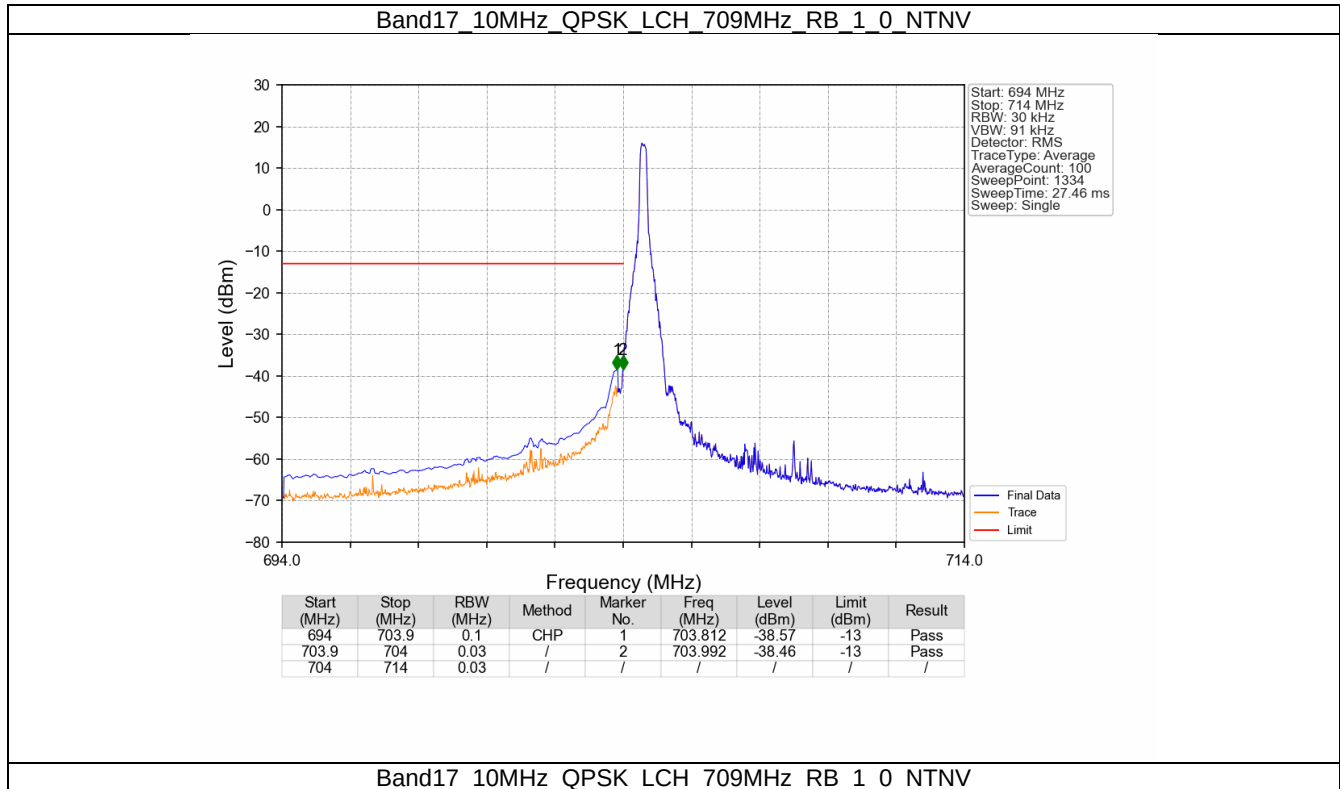
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6.2.2 Test Graph



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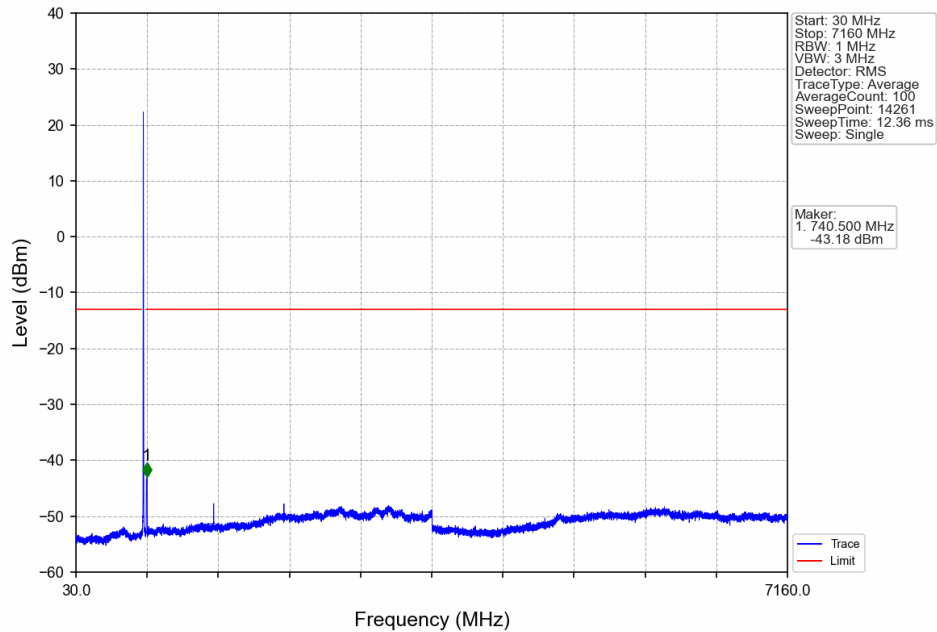
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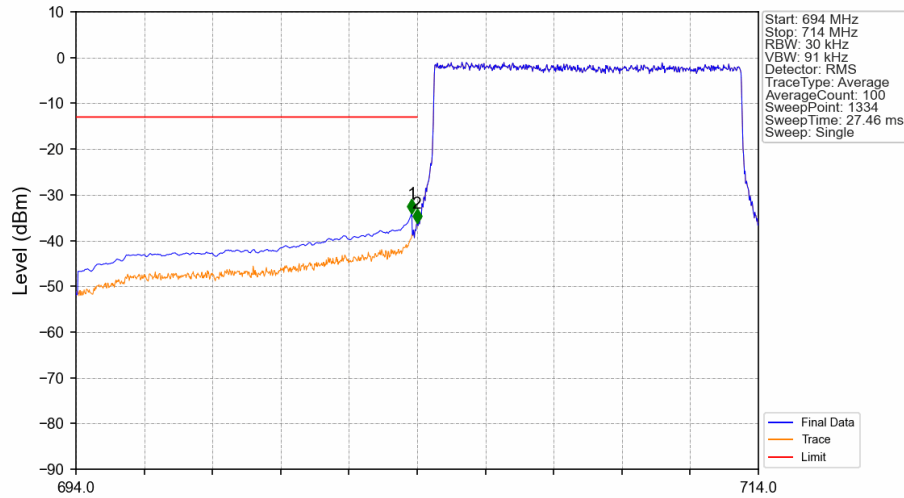
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Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-34.09	-13	Pass
703.9	704	0.03	/	2	703.992	-36.20	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17 10MHz QPSK MCH 710MHz RB 1 0 NTN



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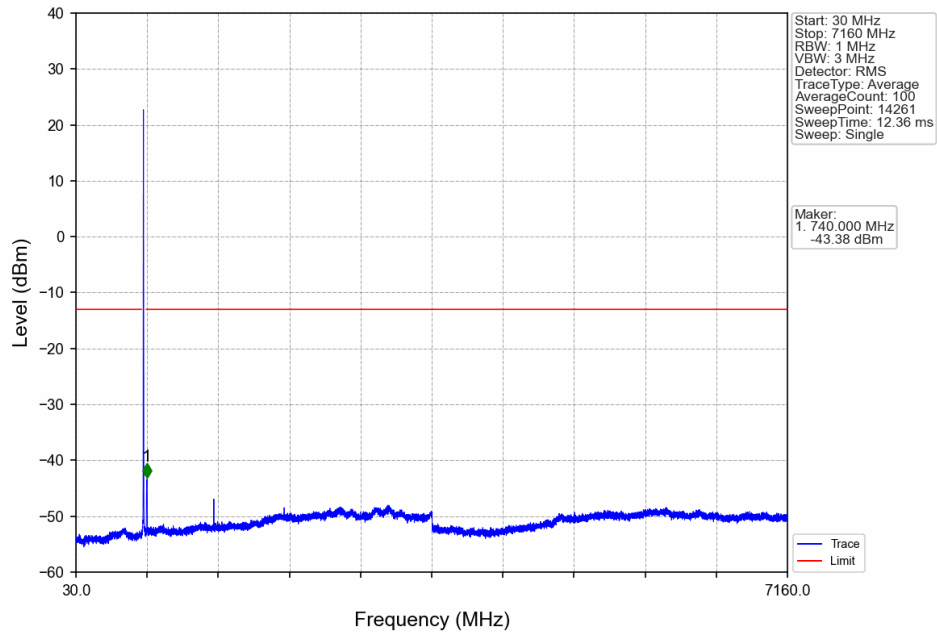
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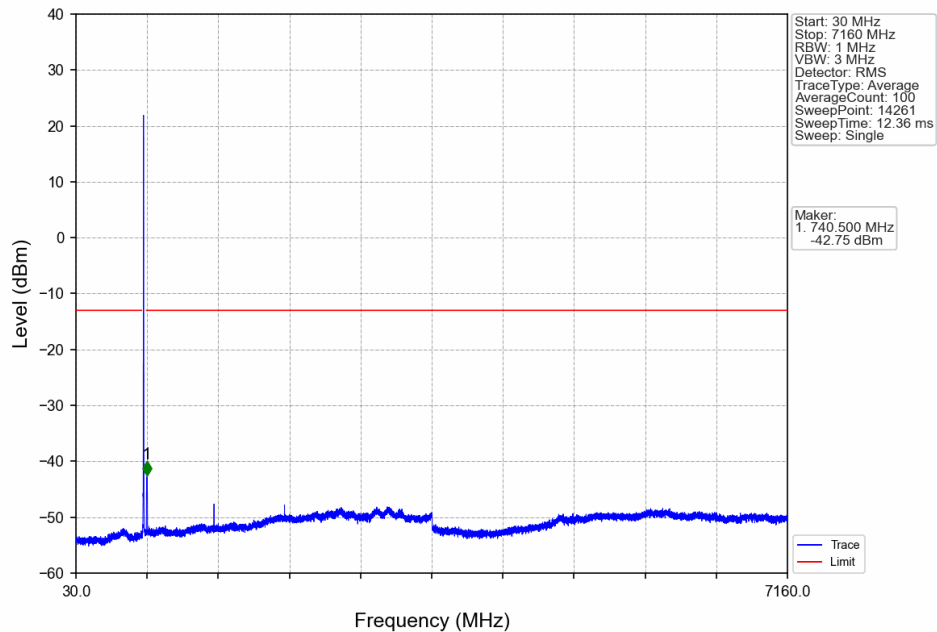
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Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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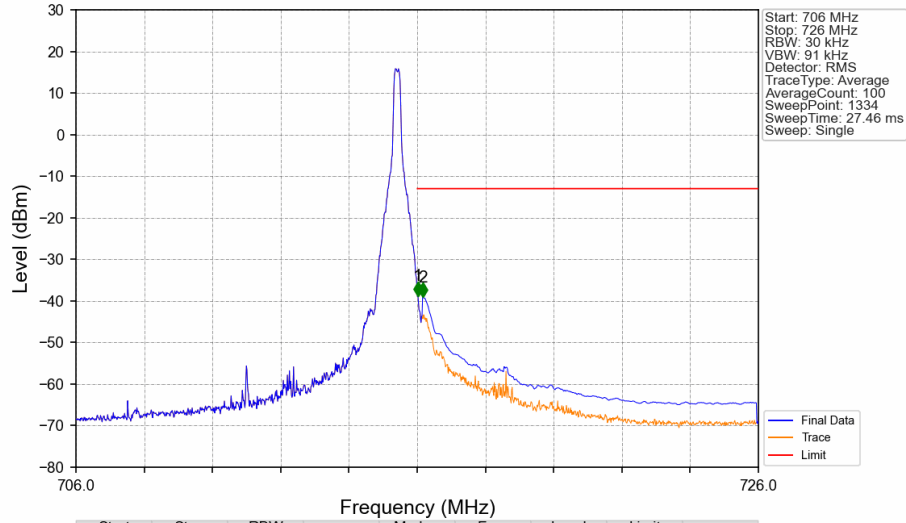
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-38.80	-13	Pass
716.1	726	0.1	CHP	2	716.173	-39.13	-13	Pass



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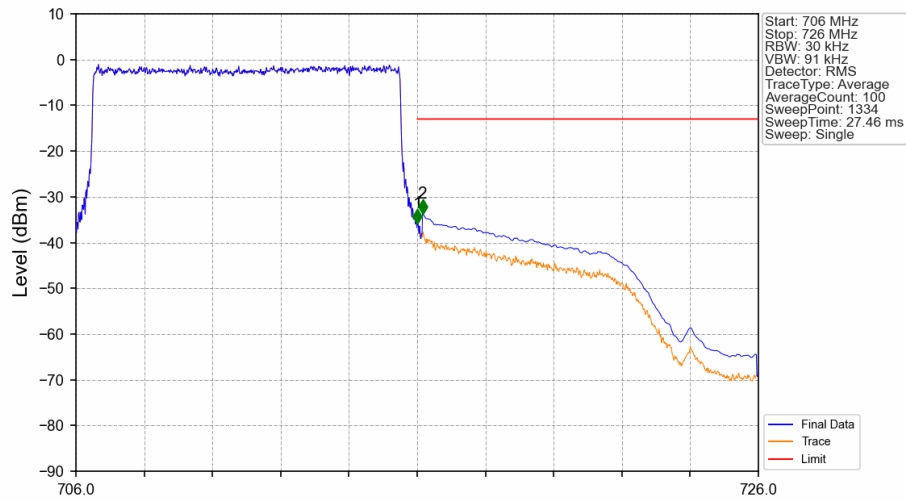
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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	716.008	-35.77	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.67	-13	Pass

---End of Attachment---



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