

Appendix B.4

LTE Band 12



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	24.06	4.25	26.16	<=34.77	Pass
			2	24.08	4.25	26.18	<=34.77	Pass
			5	24.02	4.25	26.12	<=34.77	Pass
		3	0	24.08	4.25	26.18	<=34.77	Pass
			2	24.05	4.25	26.15	<=34.77	Pass
			3	24.02	4.25	26.12	<=34.77	Pass
		6	0	23.02	4.25	25.12	<=34.77	Pass
	707.5	1	0	24.00	4.25	26.10	<=34.77	Pass
			2	24.02	4.25	26.12	<=34.77	Pass
			5	23.96	4.25	26.06	<=34.77	Pass
		3	0	23.98	4.25	26.08	<=34.77	Pass
			2	23.99	4.25	26.09	<=34.77	Pass
			3	23.97	4.25	26.07	<=34.77	Pass
		6	0	22.91	4.25	25.01	<=34.77	Pass
	715.3	1	0	23.93	4.25	26.03	<=34.77	Pass
			2	23.93	4.25	26.03	<=34.77	Pass
			5	23.85	4.25	25.95	<=34.77	Pass
		3	0	23.95	4.25	26.05	<=34.77	Pass
			2	23.90	4.25	26.00	<=34.77	Pass
			3	23.86	4.25	25.96	<=34.77	Pass
		6	0	22.90	4.25	25.00	<=34.77	Pass
16QAM	699.7	1	0	23.21	4.25	25.31	<=34.77	Pass
			2	23.18	4.25	25.28	<=34.77	Pass
			5	23.15	4.25	25.25	<=34.77	Pass
		3	0	23.07	4.25	25.17	<=34.77	Pass
			2	23.06	4.25	25.16	<=34.77	Pass
			3	23.09	4.25	25.19	<=34.77	Pass
		6	0	22.13	4.25	24.23	<=34.77	Pass



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	707.5	1	0	23.21	4.25	25.31	<=34.77	Pass
			2	23.19	4.25	25.29	<=34.77	Pass
			5	23.06	4.25	25.16	<=34.77	Pass
		3	0	23.09	4.25	25.19	<=34.77	Pass
			2	23.12	4.25	25.22	<=34.77	Pass
			3	23.08	4.25	25.18	<=34.77	Pass
		6	0	21.99	4.25	24.09	<=34.77	Pass
	715.3	1	0	23.04	4.25	25.14	<=34.77	Pass
			2	23.18	4.25	25.28	<=34.77	Pass
			5	22.93	4.25	25.03	<=34.77	Pass
		3	0	23.05	4.25	25.15	<=34.77	Pass
			2	23.01	4.25	25.11	<=34.77	Pass
			3	23.01	4.25	25.11	<=34.77	Pass
		6	0	21.95	4.25	24.05	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.99	4.25	26.09	<=34.77	Pass
			7	24.05	4.25	26.15	<=34.77	Pass
			14	23.91	4.25	26.01	<=34.77	Pass
		8	0	23.02	4.25	25.12	<=34.77	Pass
			4	23.08	4.25	25.18	<=34.77	Pass
			7	23.03	4.25	25.13	<=34.77	Pass
		15	0	23.05	4.25	25.15	<=34.77	Pass
	707.5	1	0	23.99	4.25	26.09	<=34.77	Pass
			7	24.04	4.25	26.14	<=34.77	Pass
			14	23.91	4.25	26.01	<=34.77	Pass
		8	0	23.00	4.25	25.10	<=34.77	Pass
			4	23.00	4.25	25.10	<=34.77	Pass
			7	22.99	4.25	25.09	<=34.77	Pass
		15	0	22.96	4.25	25.06	<=34.77	Pass
	714.5	1	0	23.92	4.25	26.02	<=34.77	Pass
			7	24.00	4.25	26.10	<=34.77	Pass
			14	23.83	4.25	25.93	<=34.77	Pass



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		8	0	22.91	4.25	25.01	<=34.77	Pass
			4	22.96	4.25	25.06	<=34.77	Pass
			7	22.89	4.25	24.99	<=34.77	Pass
		15	0	22.93	4.25	25.03	<=34.77	Pass
16QAM	700.5	1	0	23.21	4.25	25.31	<=34.77	Pass
			7	23.37	4.25	25.47	<=34.77	Pass
			14	23.11	4.25	25.21	<=34.77	Pass
		8	0	22.10	4.25	24.20	<=34.77	Pass
			4	22.14	4.25	24.24	<=34.77	Pass
			7	22.10	4.25	24.20	<=34.77	Pass
		15	0	22.03	4.25	24.13	<=34.77	Pass
	707.5	1	0	23.14	4.25	25.24	<=34.77	Pass
			7	23.22	4.25	25.32	<=34.77	Pass
			14	23.08	4.25	25.18	<=34.77	Pass
		8	0	21.96	4.25	24.06	<=34.77	Pass
			4	22.00	4.25	24.10	<=34.77	Pass
			7	22.05	4.25	24.15	<=34.77	Pass
		15	0	21.96	4.25	24.06	<=34.77	Pass
	714.5	1	0	23.05	4.25	25.15	<=34.77	Pass
			7	23.12	4.25	25.22	<=34.77	Pass
			14	23.03	4.25	25.13	<=34.77	Pass
		8	0	21.92	4.25	24.02	<=34.77	Pass
			4	22.02	4.25	24.12	<=34.77	Pass
			7	21.98	4.25	24.08	<=34.77	Pass
		15	0	21.95	4.25	24.05	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	24.02	4.25	26.12	<=34.77	Pass
			13	24.10	4.25	26.20	<=34.77	Pass
			24	24.01	4.25	26.11	<=34.77	Pass
		12	0	23.01	4.25	25.11	<=34.77	Pass
			6	23.10	4.25	25.20	<=34.77	Pass
			13	23.03	4.25	25.13	<=34.77	Pass



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	707.5	25	0	23.06	4.25	25.16	<=34.77	Pass
		1	0	24.03	4.25	26.13	<=34.77	Pass
			13	24.03	4.25	26.13	<=34.77	Pass
			24	23.98	4.25	26.08	<=34.77	Pass
		12	0	22.99	4.25	25.09	<=34.77	Pass
			6	22.99	4.25	25.09	<=34.77	Pass
			13	23.02	4.25	25.12	<=34.77	Pass
		25	0	22.95	4.25	25.05	<=34.77	Pass
	713.5	1	0	24.00	4.25	26.10	<=34.77	Pass
			13	24.03	4.25	26.13	<=34.77	Pass
			24	23.90	4.25	26.00	<=34.77	Pass
		12	0	22.94	4.25	25.04	<=34.77	Pass
			6	22.94	4.25	25.04	<=34.77	Pass
			13	22.95	4.25	25.05	<=34.77	Pass
		25	0	22.90	4.25	25.00	<=34.77	Pass
16QAM	701.5	1	0	23.19	4.25	25.29	<=34.77	Pass
			13	23.21	4.25	25.31	<=34.77	Pass
			24	23.17	4.25	25.27	<=34.77	Pass
		12	0	22.13	4.25	24.23	<=34.77	Pass
			6	22.12	4.25	24.22	<=34.77	Pass
			13	22.12	4.25	24.22	<=34.77	Pass
		25	0	22.04	4.25	24.14	<=34.77	Pass
	707.5	1	0	23.20	4.25	25.30	<=34.77	Pass
			13	23.22	4.25	25.32	<=34.77	Pass
			24	23.20	4.25	25.30	<=34.77	Pass
		12	0	22.02	4.25	24.12	<=34.77	Pass
			6	22.12	4.25	24.22	<=34.77	Pass
			13	22.00	4.25	24.10	<=34.77	Pass
		25	0	21.97	4.25	24.07	<=34.77	Pass
	713.5	1	0	23.18	4.25	25.28	<=34.77	Pass
			13	23.23	4.25	25.33	<=34.77	Pass
			24	23.11	4.25	25.21	<=34.77	Pass
		12	0	21.88	4.25	23.98	<=34.77	Pass
			6	21.93	4.25	24.03	<=34.77	Pass
			13	21.98	4.25	24.08	<=34.77	Pass
		25	0	21.92	4.25	24.02	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	24.01	4.25	26.11	<=34.77	Pass
			25	24.00	4.25	26.10	<=34.77	Pass
			49	23.99	4.25	26.09	<=34.77	Pass
		25	0	23.04	4.25	25.14	<=34.77	Pass
			13	23.06	4.25	25.16	<=34.77	Pass
			25	23.04	4.25	25.14	<=34.77	Pass
		50	0	23.07	4.25	25.17	<=34.77	Pass
	707.5	1	0	24.05	4.25	26.15	<=34.77	Pass
			25	23.99	4.25	26.09	<=34.77	Pass
			49	23.90	4.25	26.00	<=34.77	Pass
		25	0	23.00	4.25	25.10	<=34.77	Pass
			13	23.00	4.25	25.10	<=34.77	Pass
			25	23.01	4.25	25.11	<=34.77	Pass
		50	0	23.01	4.25	25.11	<=34.77	Pass
	711	1	0	24.06	4.25	26.16	<=34.77	Pass
			25	24.01	4.25	26.11	<=34.77	Pass
			49	23.88	4.25	25.98	<=34.77	Pass
		25	0	23.00	4.25	25.10	<=34.77	Pass
			13	23.08	4.25	25.18	<=34.77	Pass
			25	22.99	4.25	25.09	<=34.77	Pass
		50	0	23.03	4.25	25.13	<=34.77	Pass
16QAM	704	1	0	23.20	4.25	25.30	<=34.77	Pass
			25	23.13	4.25	25.23	<=34.77	Pass
			49	23.20	4.25	25.30	<=34.77	Pass
		25	0	22.03	4.25	24.13	<=34.77	Pass
			13	22.10	4.25	24.20	<=34.77	Pass
			25	22.04	4.25	24.14	<=34.77	Pass
		50	0	22.06	4.25	24.16	<=34.77	Pass
	707.5	1	0	23.14	4.25	25.24	<=34.77	Pass
			25	23.10	4.25	25.20	<=34.77	Pass
			49	23.08	4.25	25.18	<=34.77	Pass
		25	0	22.05	4.25	24.15	<=34.77	Pass
			13	22.05	4.25	24.15	<=34.77	Pass



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			25	22.05	4.25	24.15	<=34.77	Pass
		50	0	22.01	4.25	24.11	<=34.77	Pass
	711	1	0	23.18	4.25	25.28	<=34.77	Pass
			25	23.12	4.25	25.22	<=34.77	Pass
			49	23.07	4.25	25.17	<=34.77	Pass
	25		0	21.99	4.25	24.09	<=34.77	Pass
			13	22.07	4.25	24.17	<=34.77	Pass
			25	22.00	4.25	24.10	<=34.77	Pass
	50		0	22.03	4.25	24.13	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	-0.200	-0.0003	-2.5 to 2.5	Pass
					3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
					4.43	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				40	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-0.672	-0.0009	-2.5 to 2.5	Pass
					3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
					4.43	-0.558	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.772	0.0011	-2.5 to 2.5	Pass
				40	3.85	0.601	0.0008	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.043	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
					4.43	0.114	0.0002	-2.5 to 2.5	Pass



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				0	3.85	-0.558	-0.0008	-2.5 to 2.5	Pass
				10	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-0.544	-0.0008	-2.5 to 2.5	Pass
					3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
					4.43	0.415	0.0006	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				30	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	0.758	0.0011	-2.5 to 2.5	Pass
					3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
					4.43	0.157	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				30	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-0.887	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
					4.43	-0.715	-0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.127	/	Pass
		707.5	6	0	1.124	/	Pass



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	16QAM	715.3	6	0	1.122	/	Pass
		699.7	6	0	1.122	/	Pass
		707.5	6	0	1.129	/	Pass
		715.3	6	0	1.132	/	Pass
3	QPSK	700.5	15	0	2.744	/	Pass
		707.5	15	0	2.744	/	Pass
		714.5	15	0	2.742	/	Pass
	16QAM	700.5	15	0	2.743	/	Pass
		707.5	15	0	2.774	/	Pass
		714.5	15	0	2.745	/	Pass
5	QPSK	701.5	25	0	4.566	/	Pass
		707.5	25	0	4.556	/	Pass
		713.5	25	0	4.576	/	Pass
	16QAM	701.5	25	0	4.564	/	Pass
		707.5	25	0	4.572	/	Pass
		713.5	25	0	4.570	/	Pass
10	QPSK	704	50	0	9.099	/	Pass
		707.5	50	0	9.050	/	Pass
		711	50	0	9.109	/	Pass
	16QAM	704	50	0	9.047	/	Pass
		707.5	50	0	9.068	/	Pass
		711	50	0	9.070	/	Pass

3.1.2 Band12_XDB

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.415	/	Pass
		707.5	6	0	1.426	/	Pass
		715.3	6	0	1.403	/	Pass
	16QAM	699.7	6	0	1.430	/	Pass
		707.5	6	0	1.419	/	Pass
		715.3	6	0	1.414	/	Pass
3	QPSK	700.5	15	0	3.158	/	Pass
		707.5	15	0	3.126	/	Pass
		714.5	15	0	3.098	/	Pass
	16QAM	700.5	15	0	3.130	/	Pass



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5	QPSK	707.5	15	0	3.119	/	Pass
		714.5	15	0	3.111	/	Pass
		701.5	25	0	5.193	/	Pass
		707.5	25	0	5.260	/	Pass
		713.5	25	0	5.277	/	Pass
		701.5	25	0	5.328	/	Pass
		707.5	25	0	5.215	/	Pass
		713.5	25	0	5.306	/	Pass
		704	50	0	10.168	/	Pass
		707.5	50	0	10.168	/	Pass
10	QPSK	711	50	0	10.142	/	Pass
		704	50	0	10.139	/	Pass
		707.5	50	0	10.146	/	Pass
	16QAM	711	50	0	10.243	/	Pass
		704	50	0	10.139	/	Pass
		707.5	50	0	10.146	/	Pass



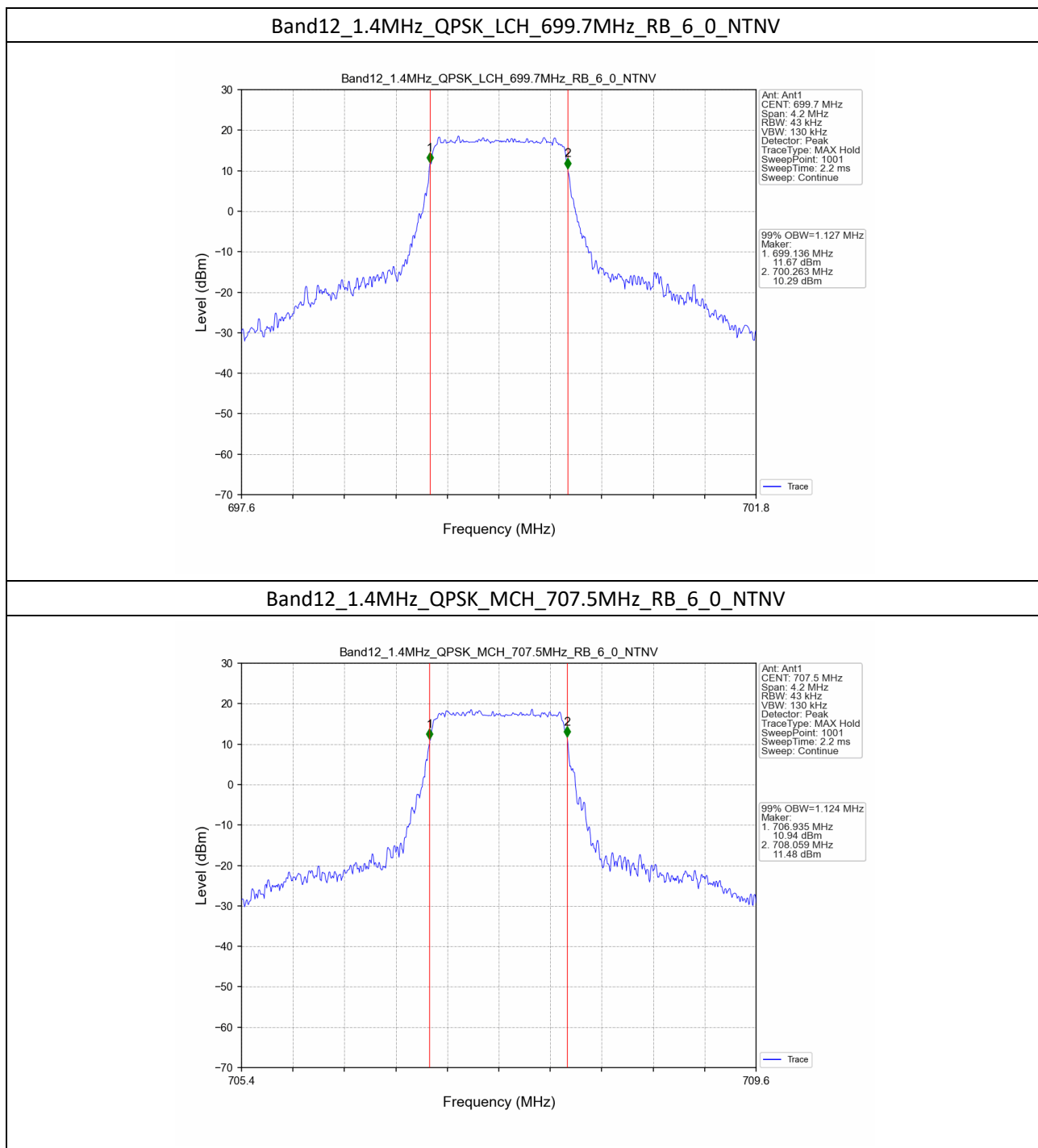
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3.2 Test Graph

3.2.1 Band12_OBW

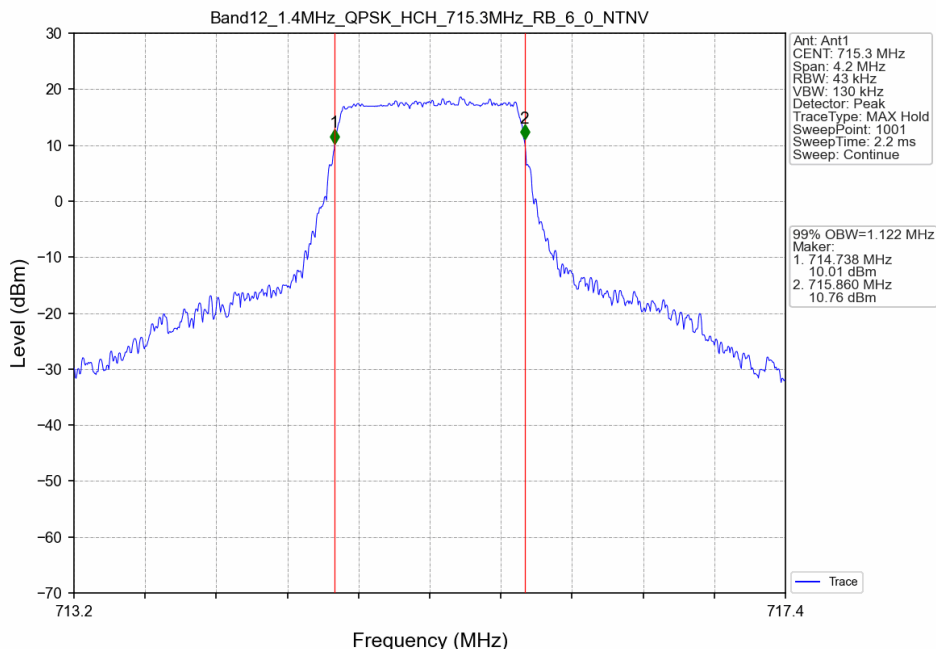


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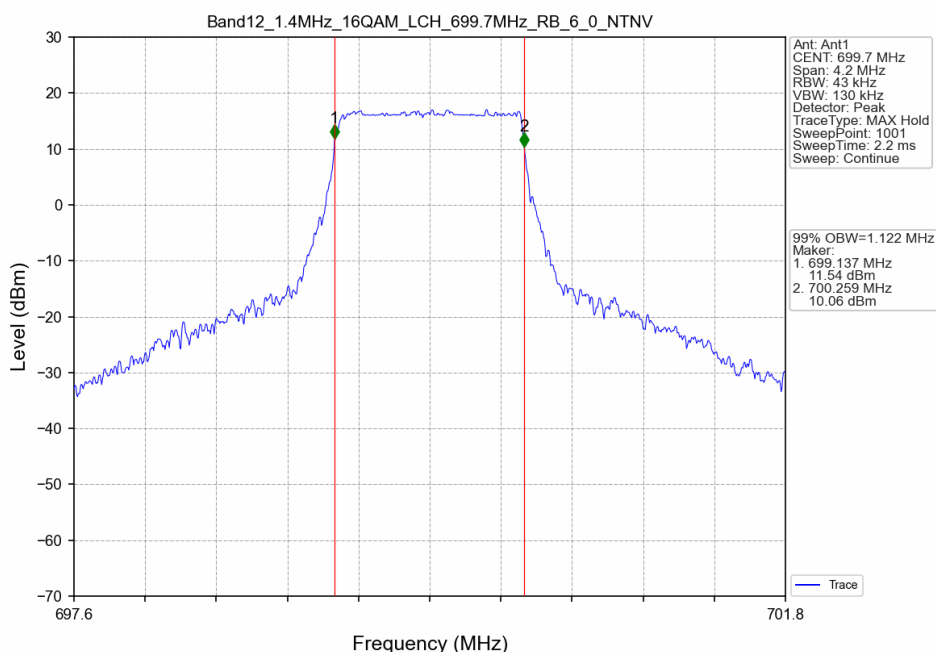
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

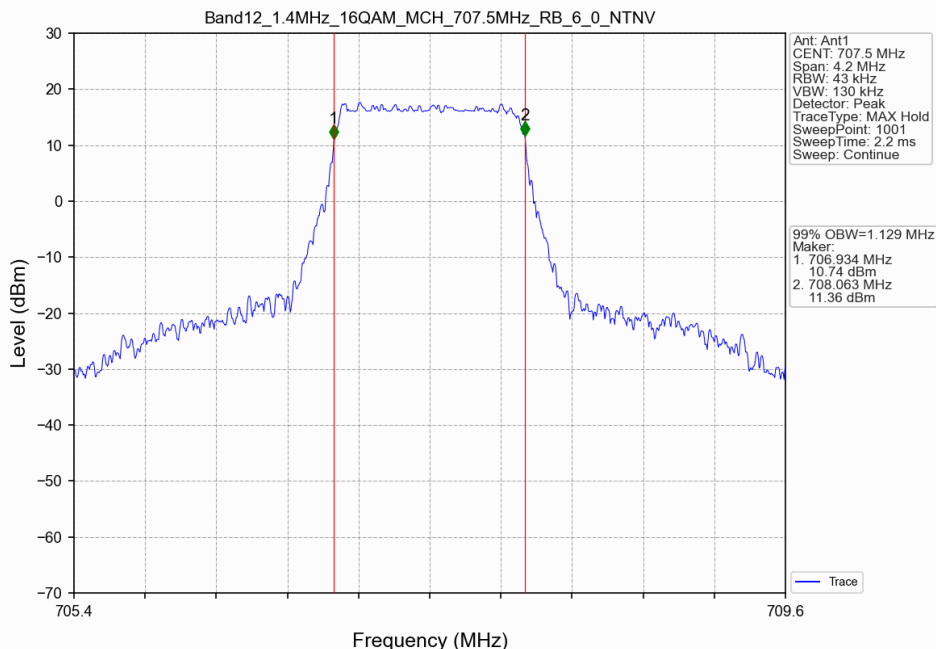


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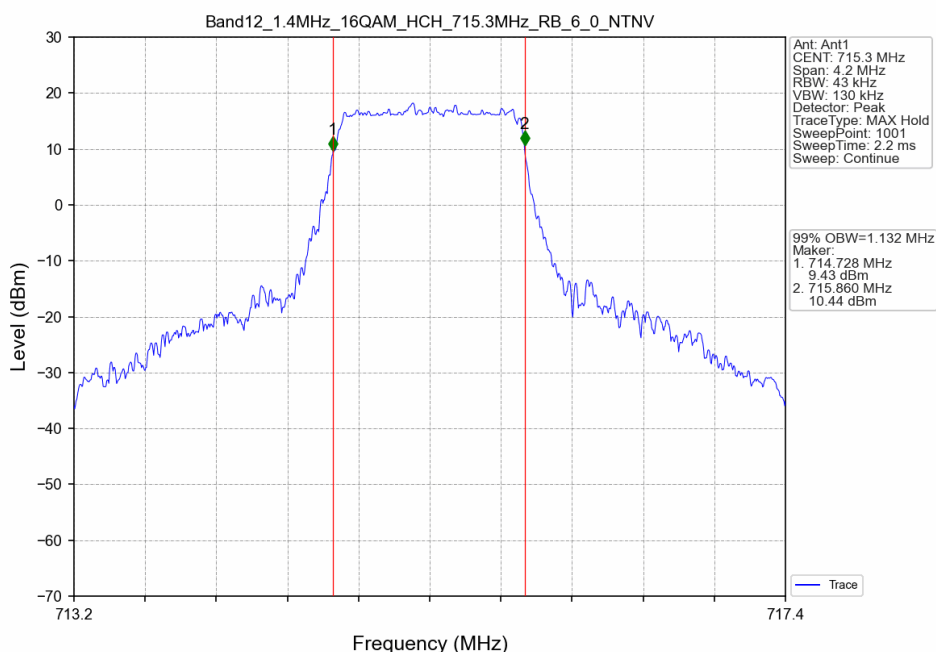
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Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

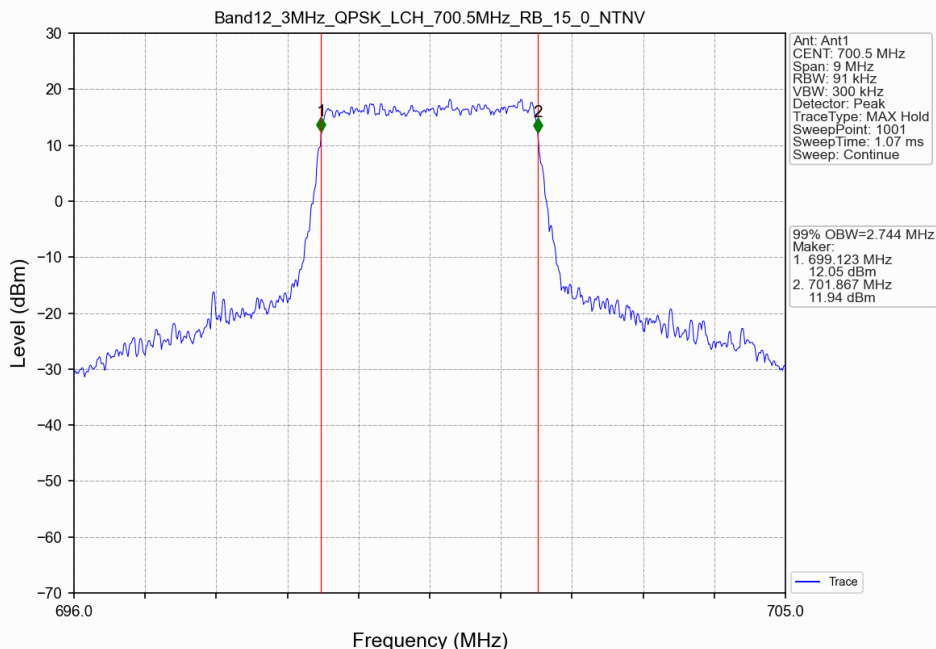


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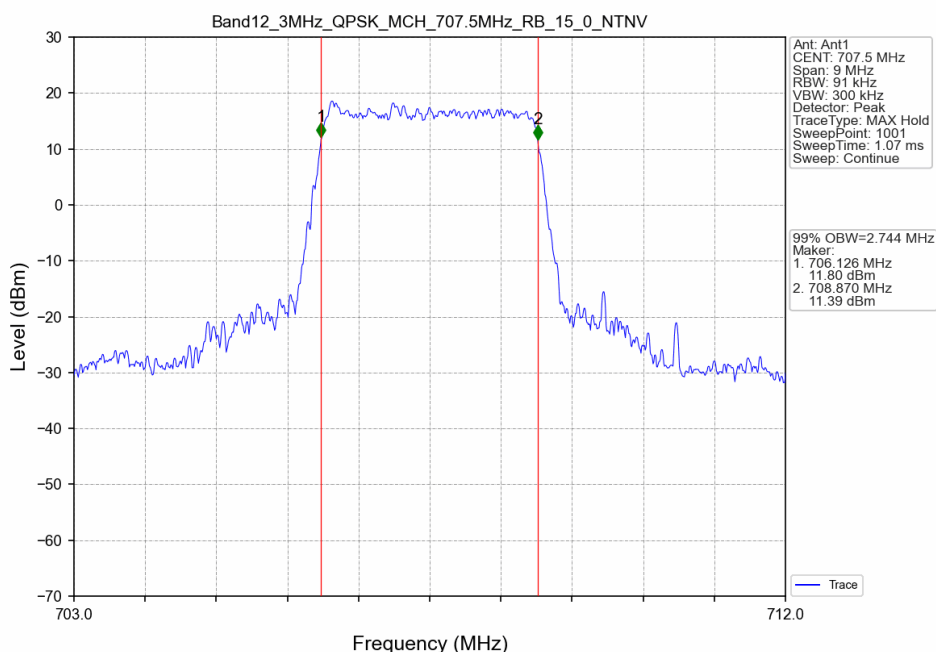
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

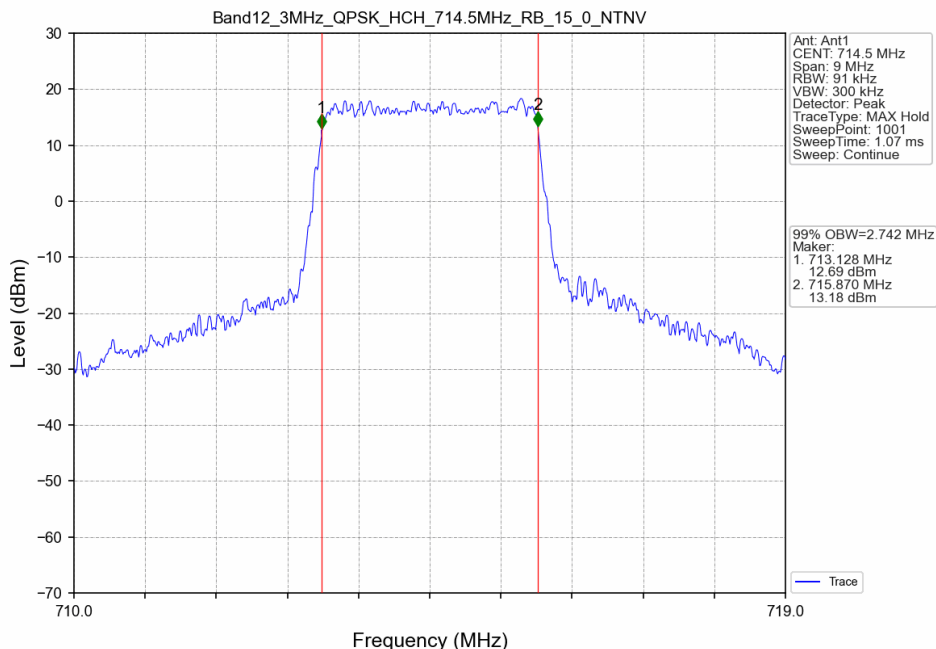


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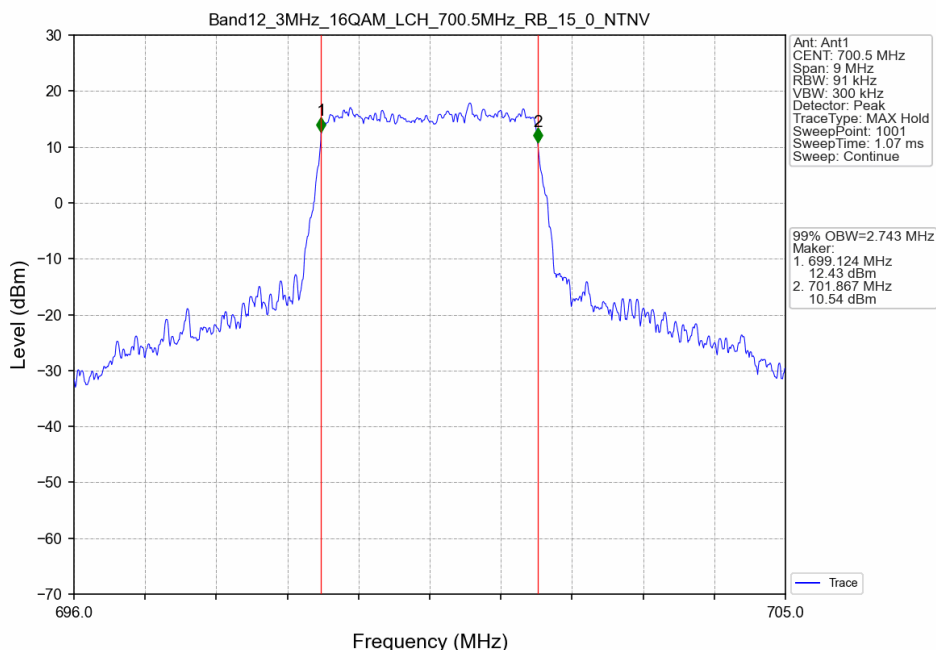
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

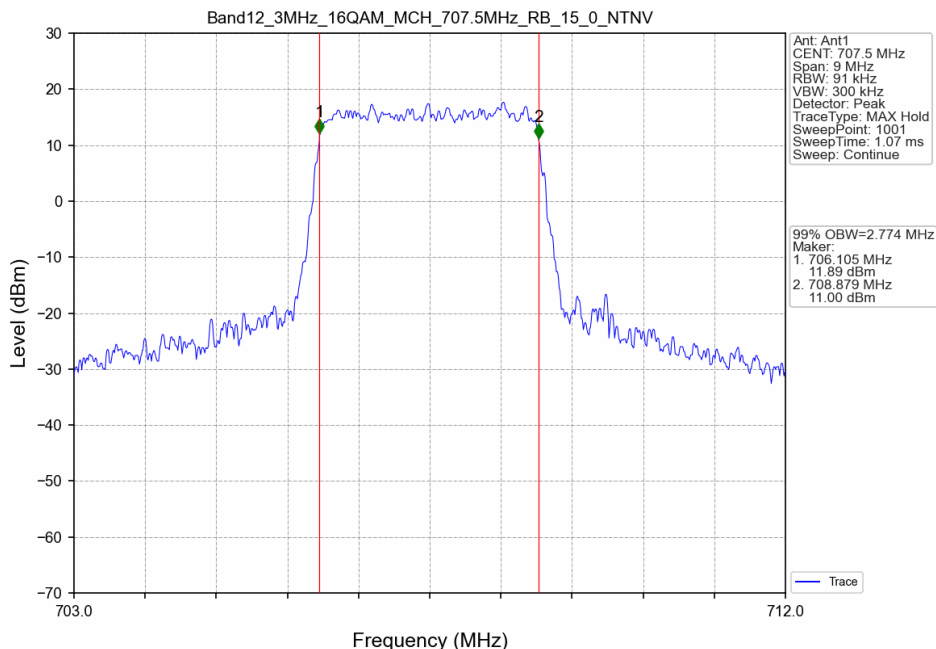


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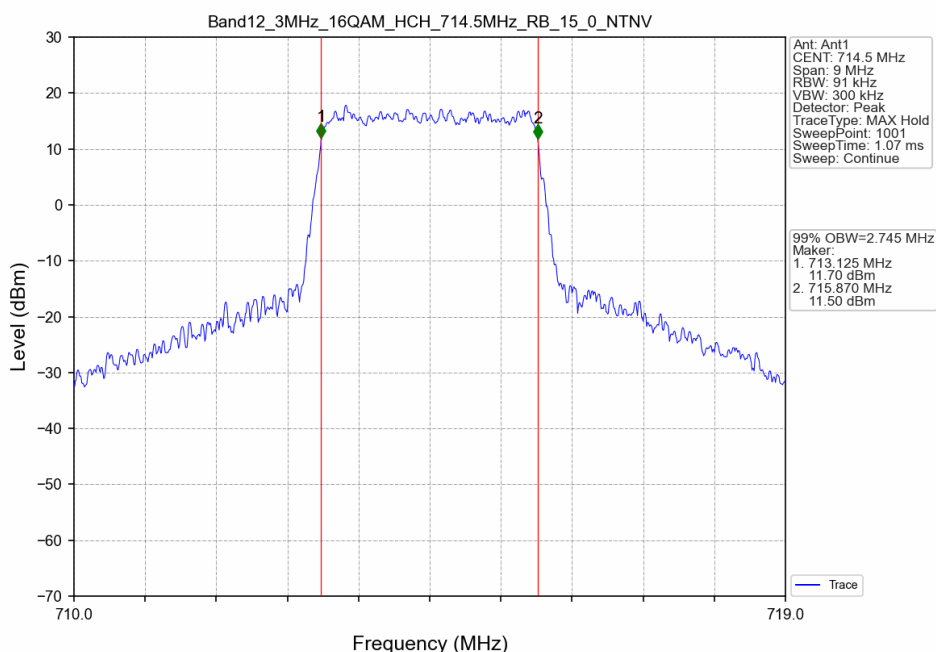
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

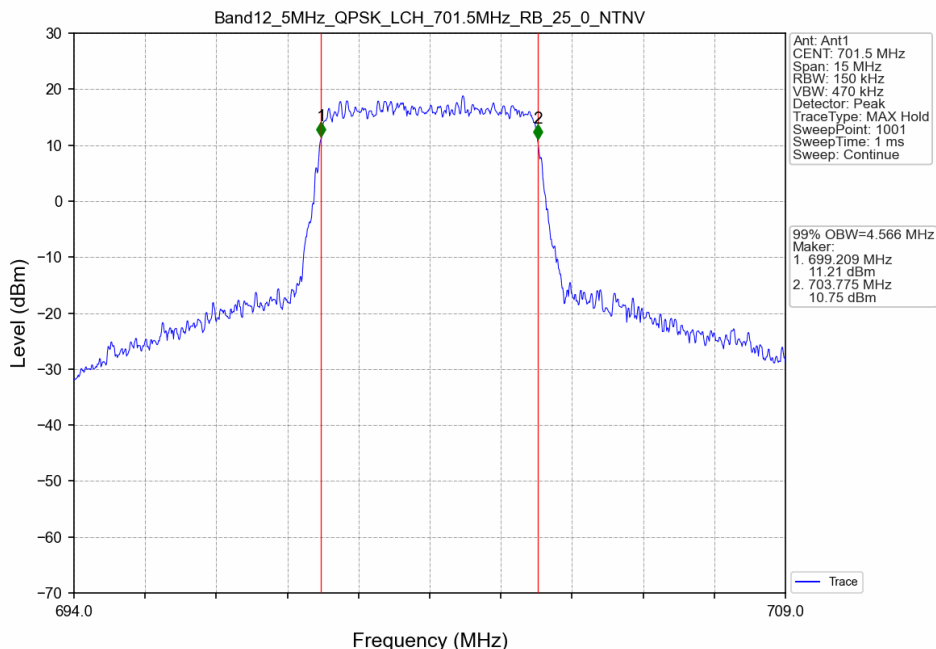


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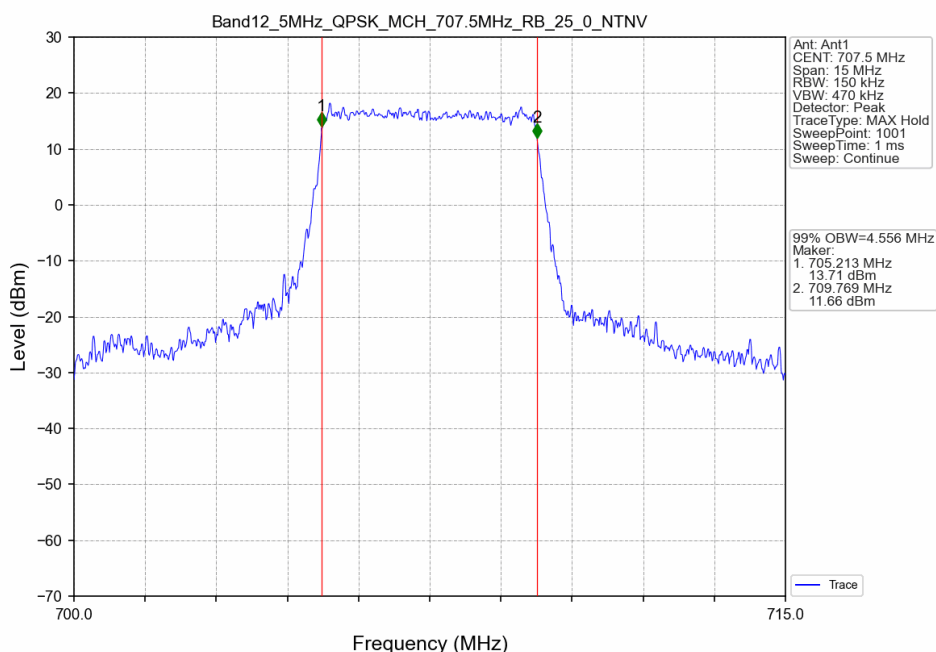
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Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

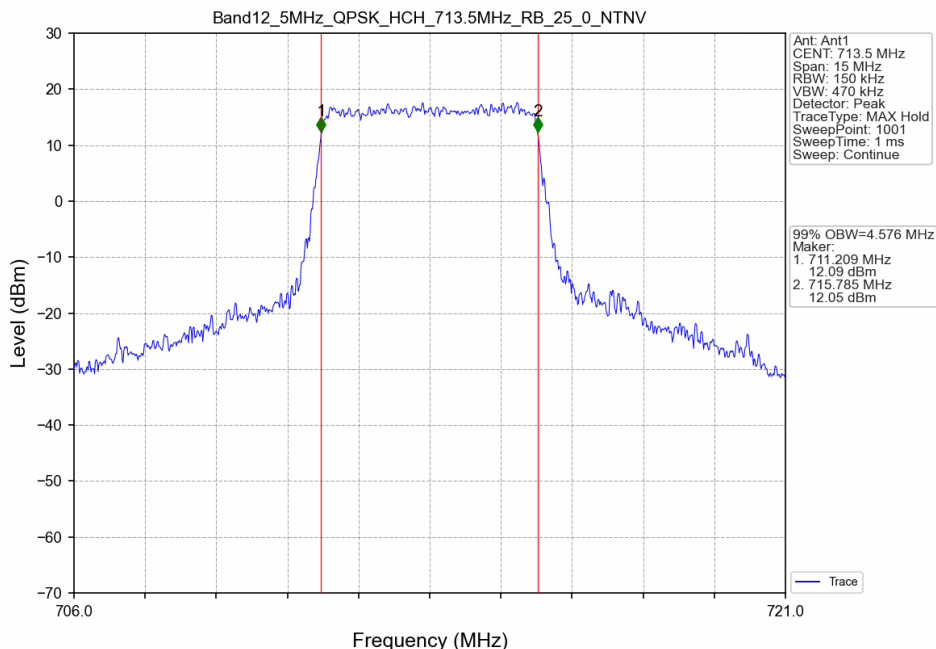


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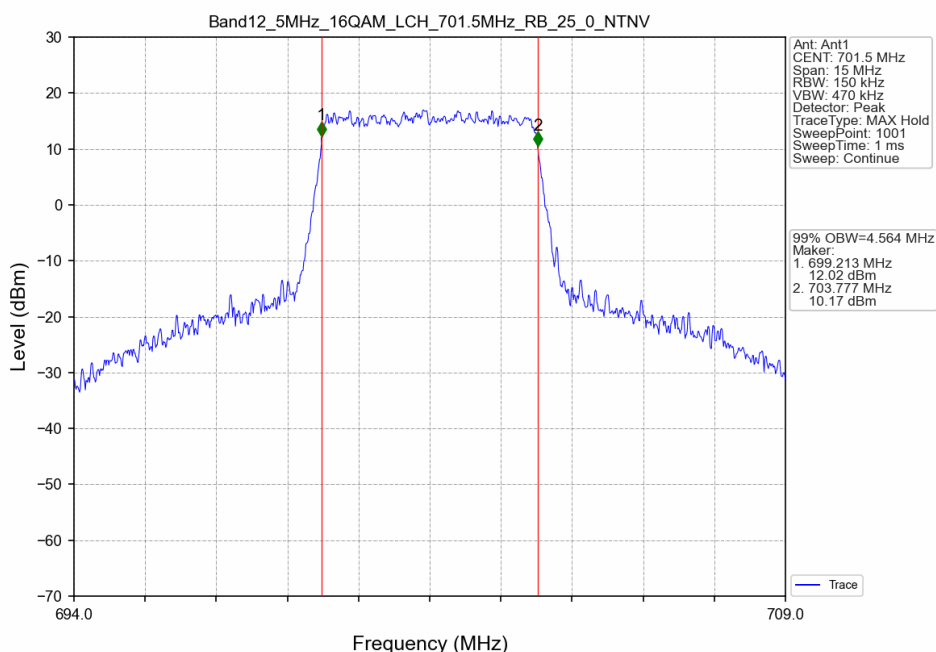
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

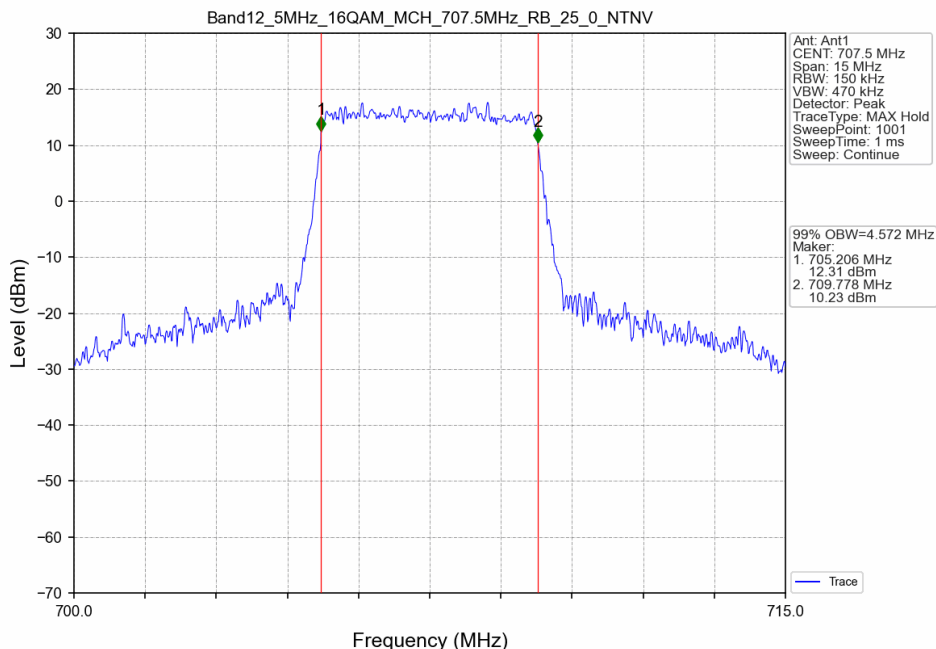


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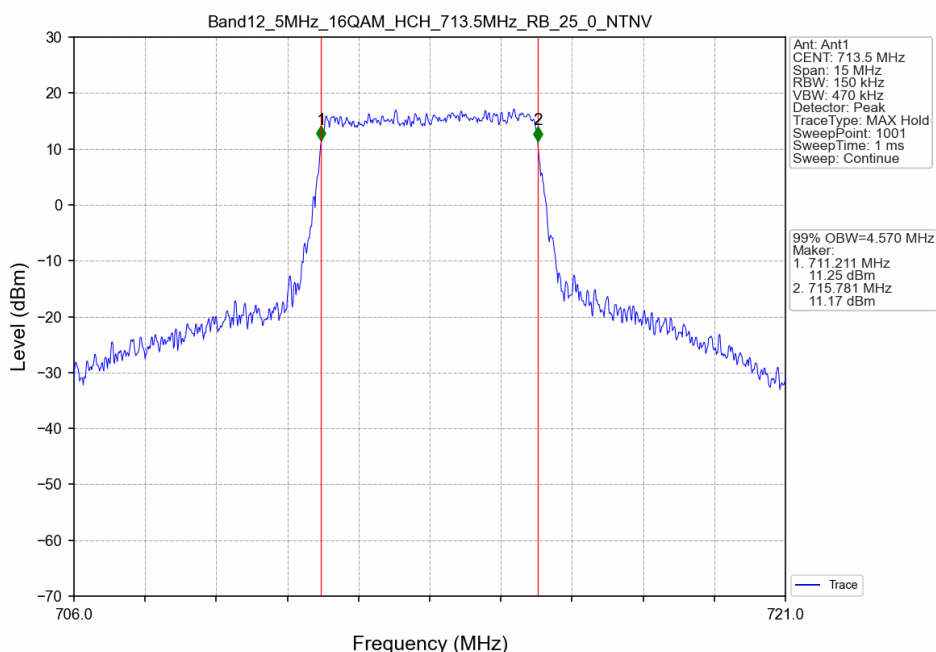
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

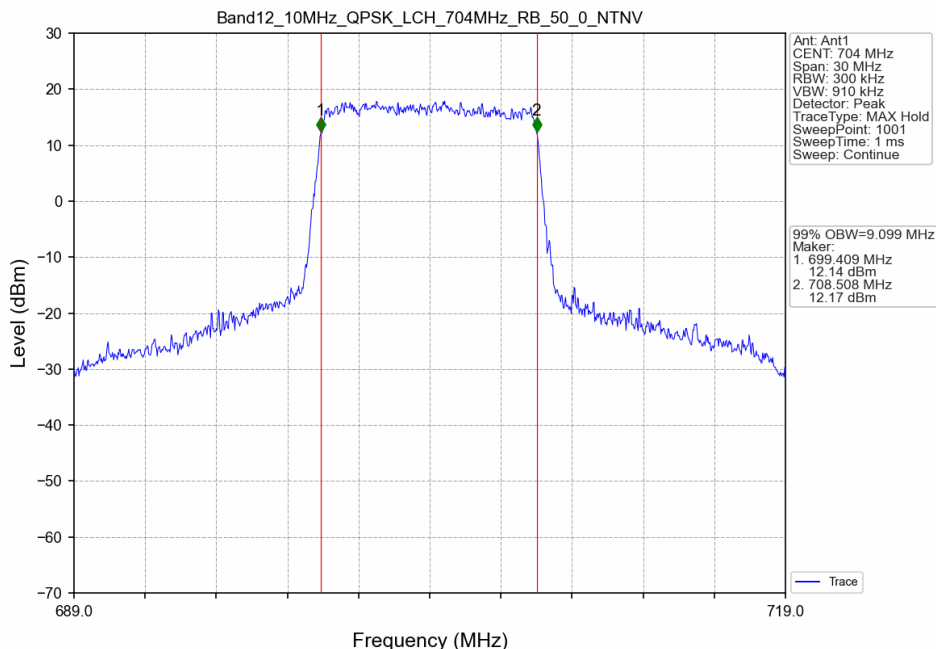


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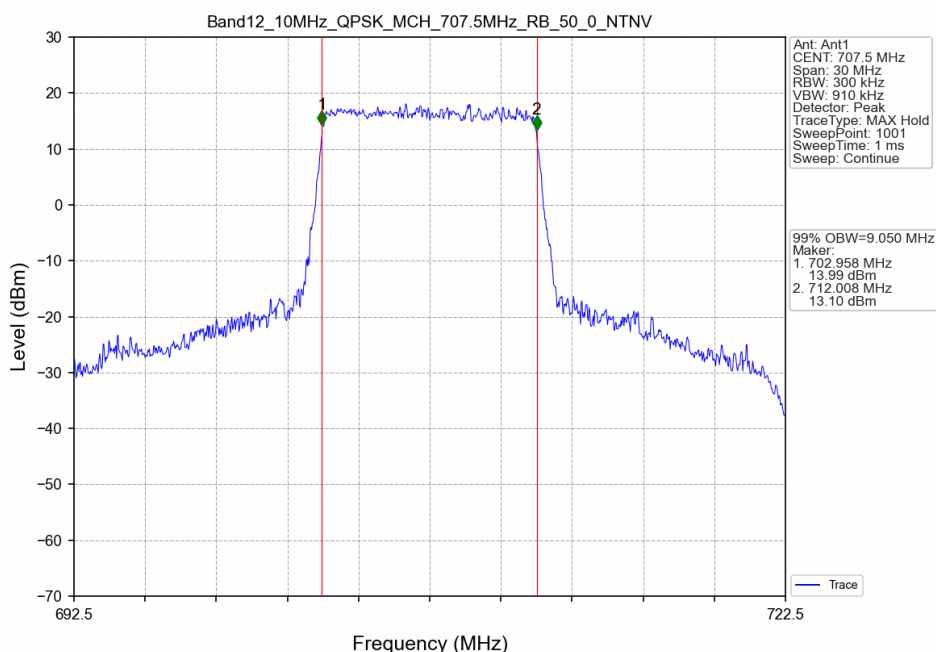
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

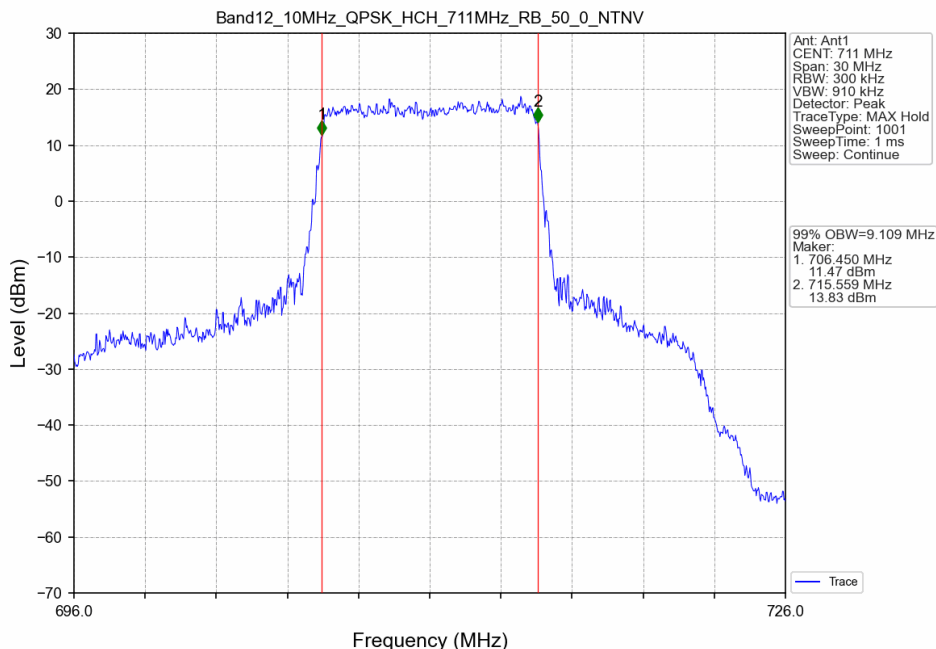


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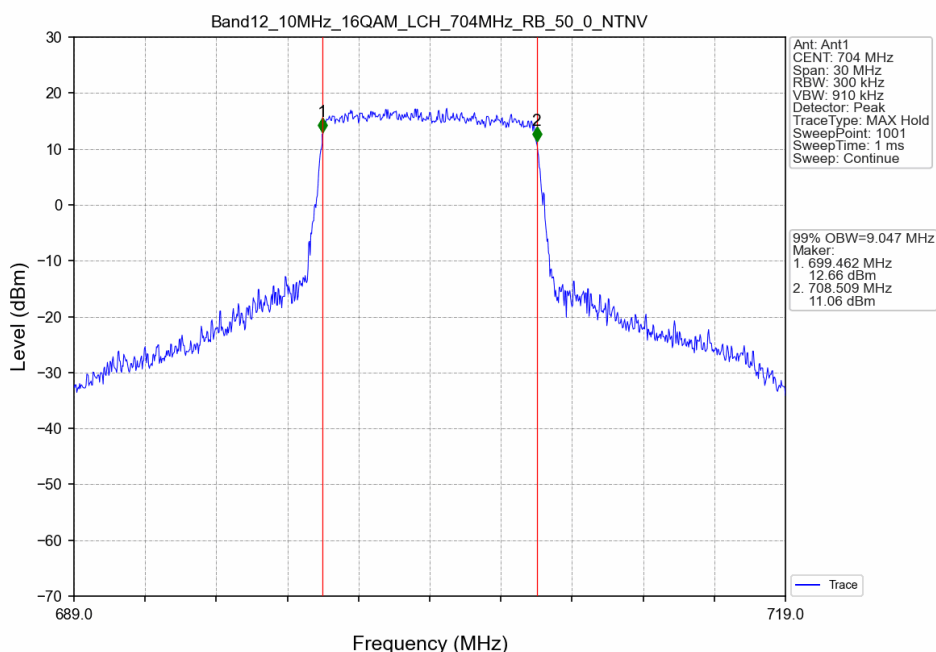
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

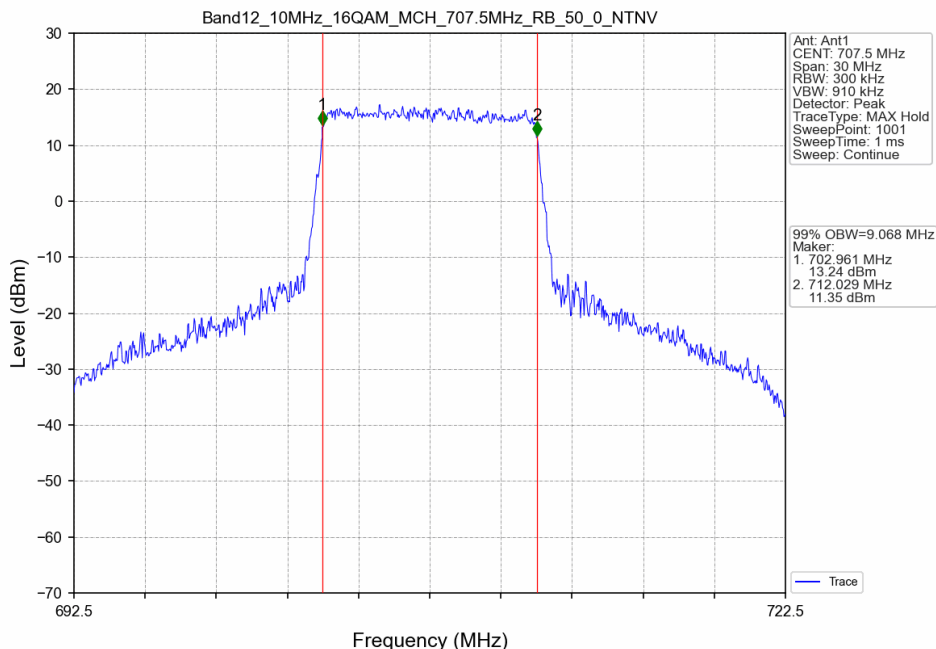


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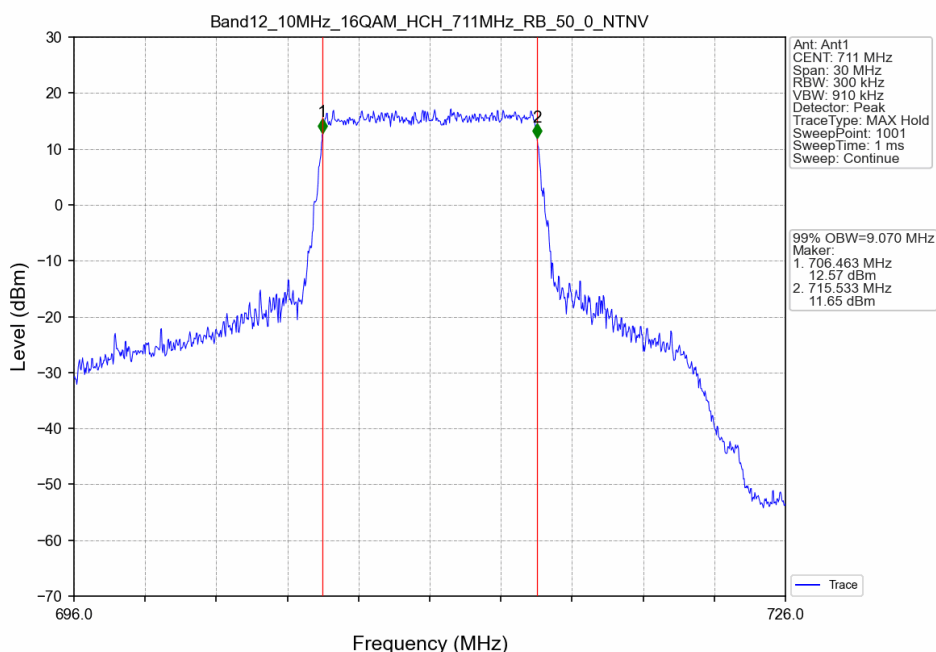
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



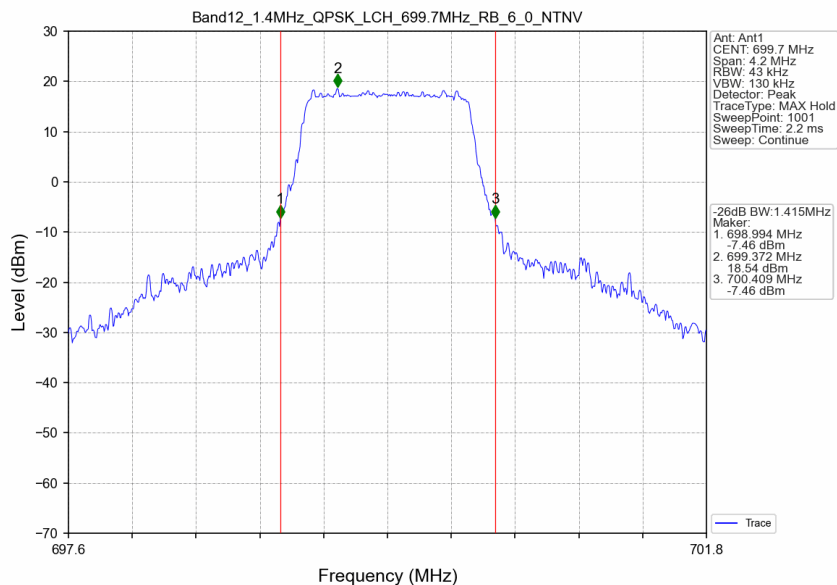
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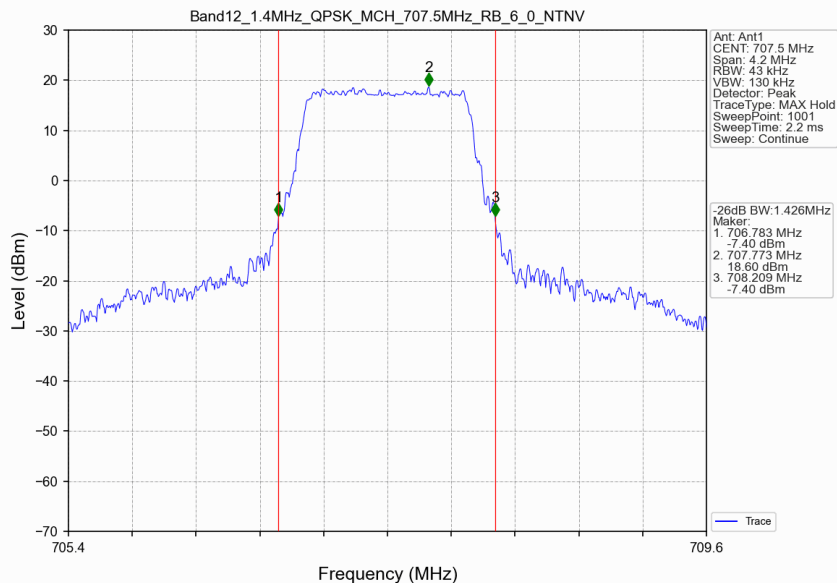
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3.2.2 Band12_XDB

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

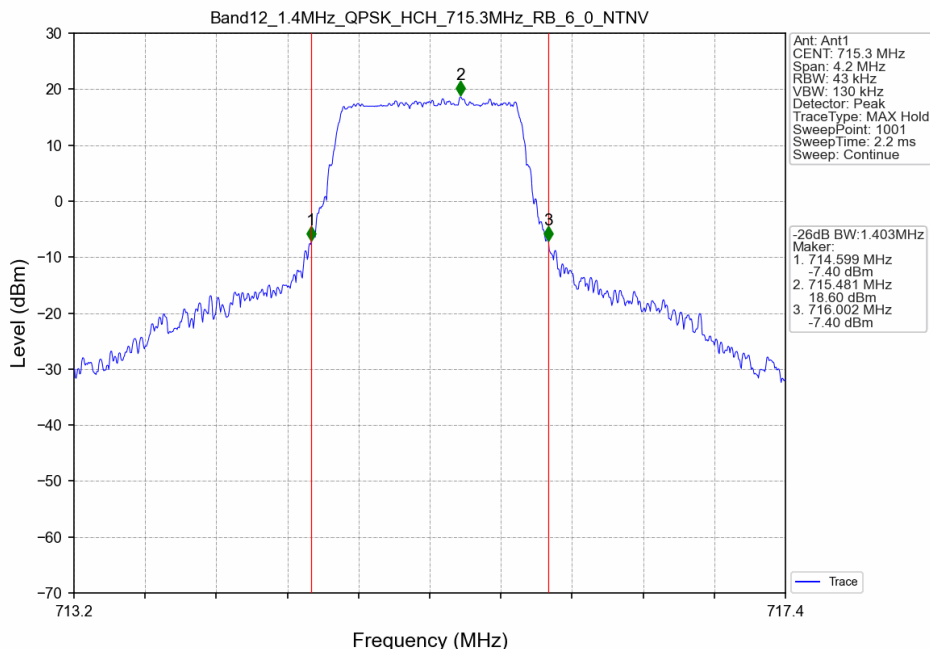


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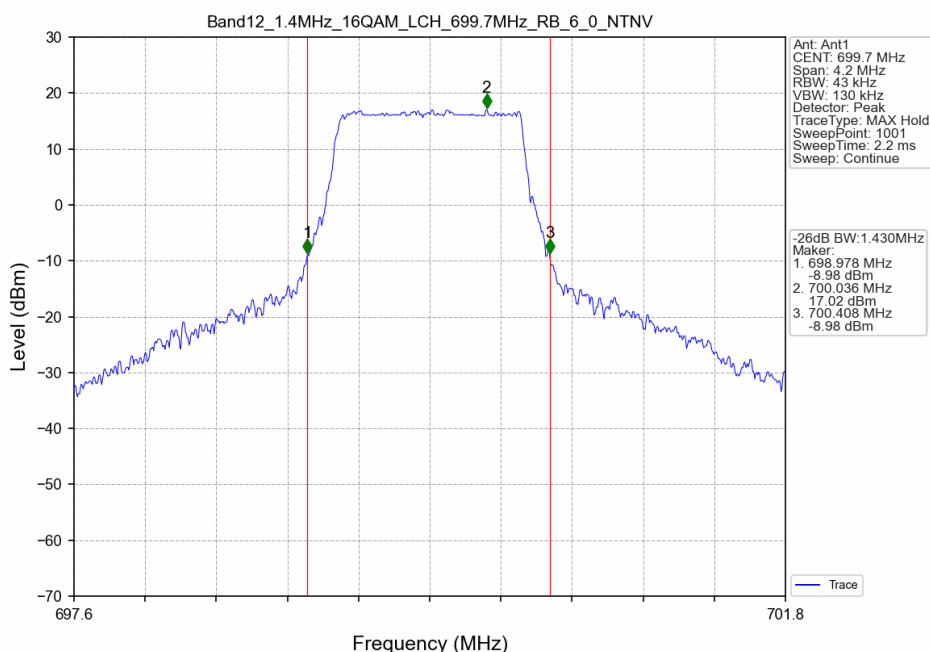
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

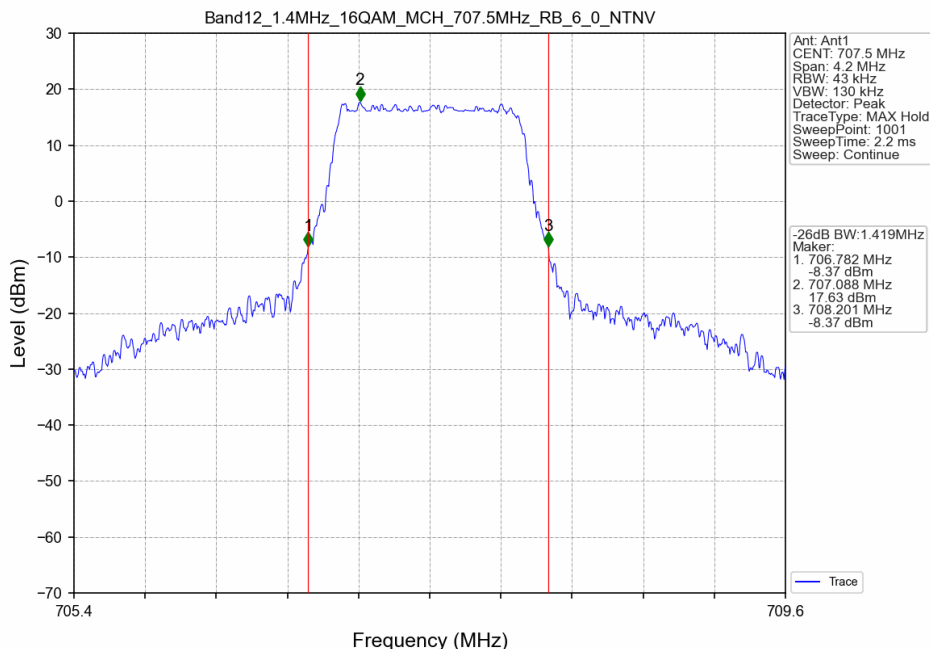


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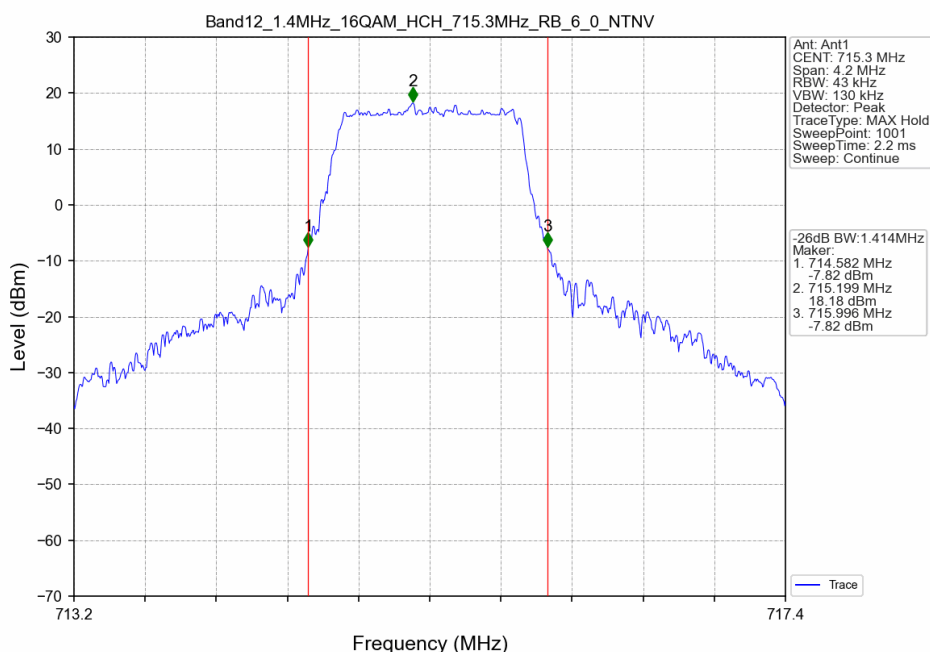
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Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

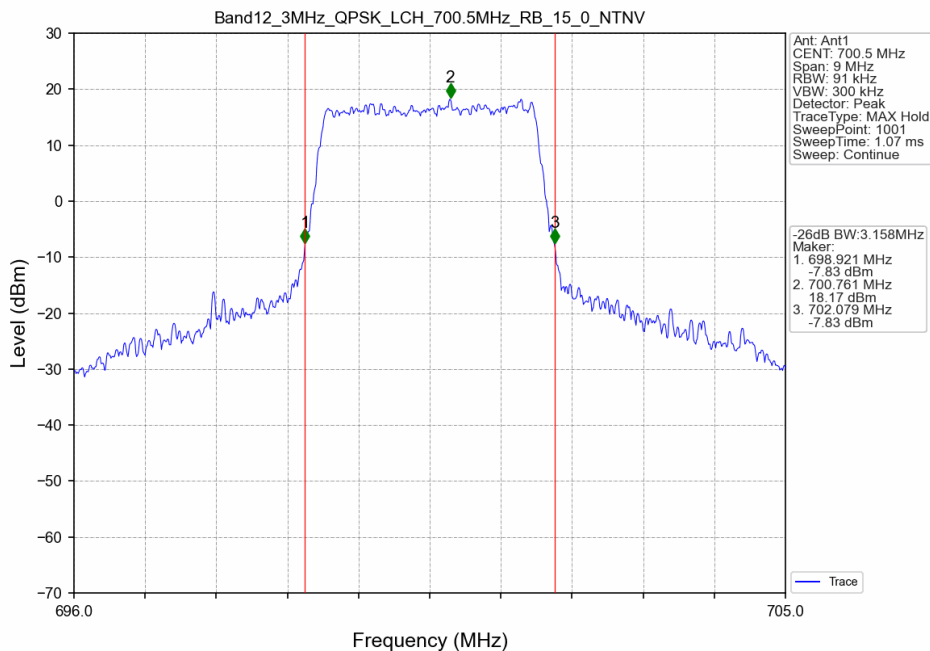


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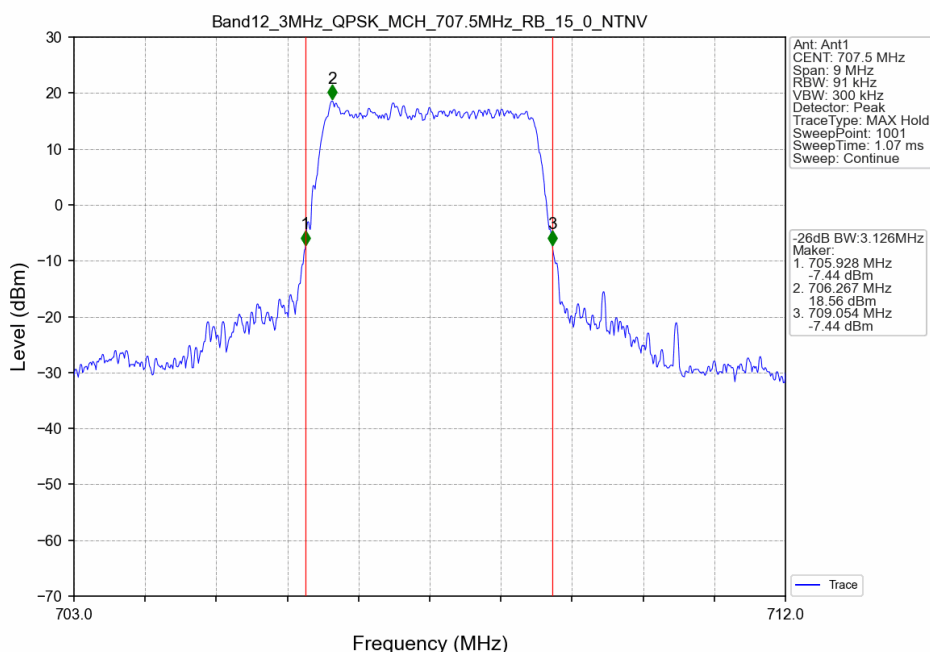
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

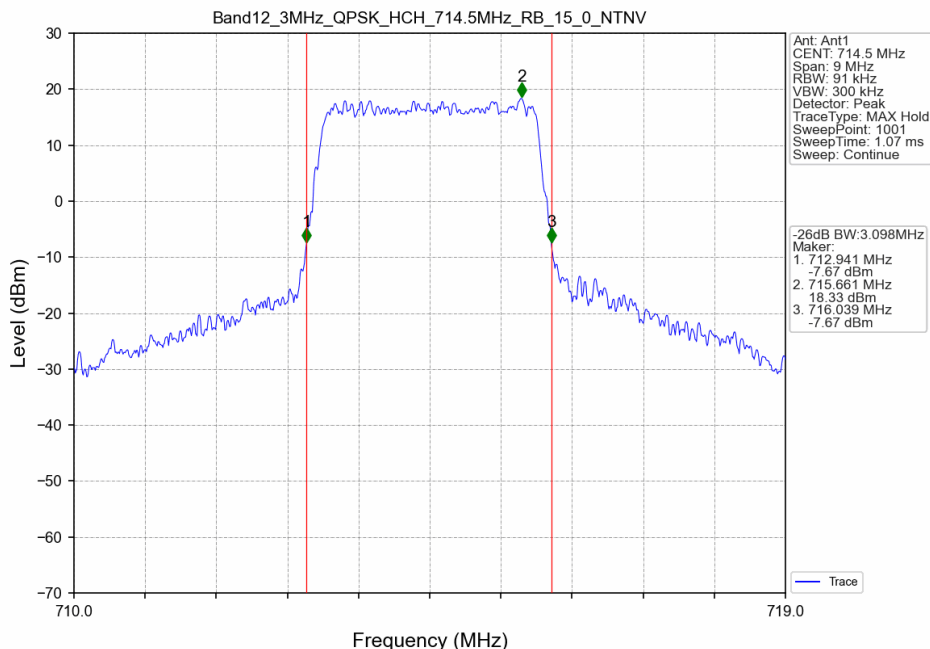


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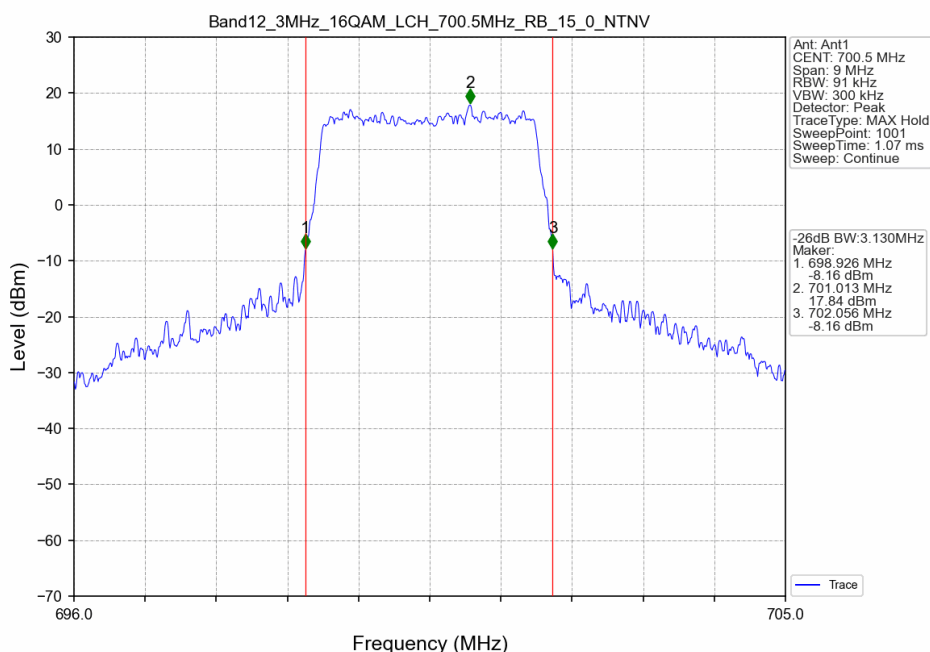
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

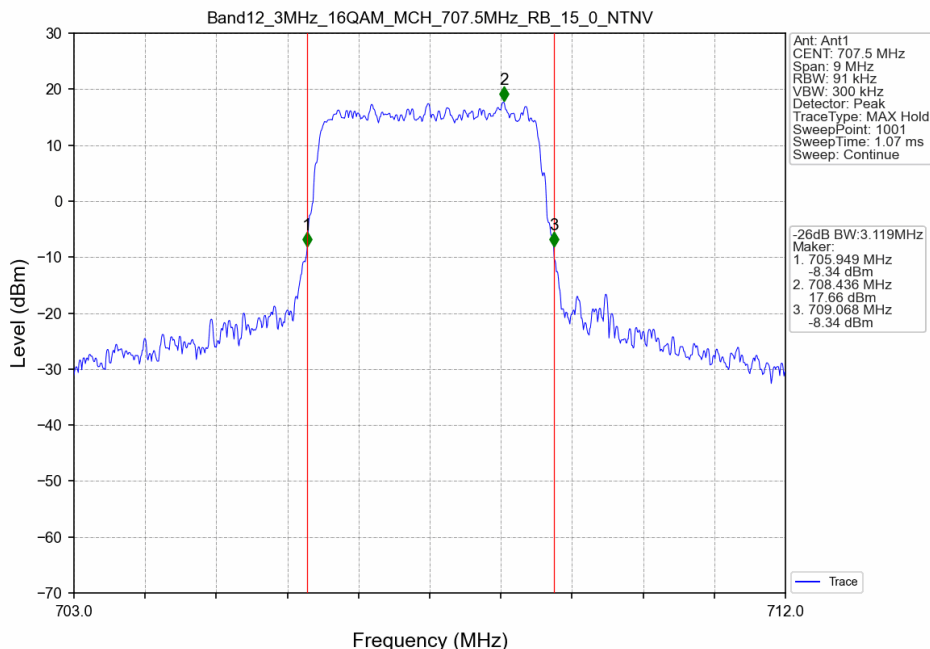


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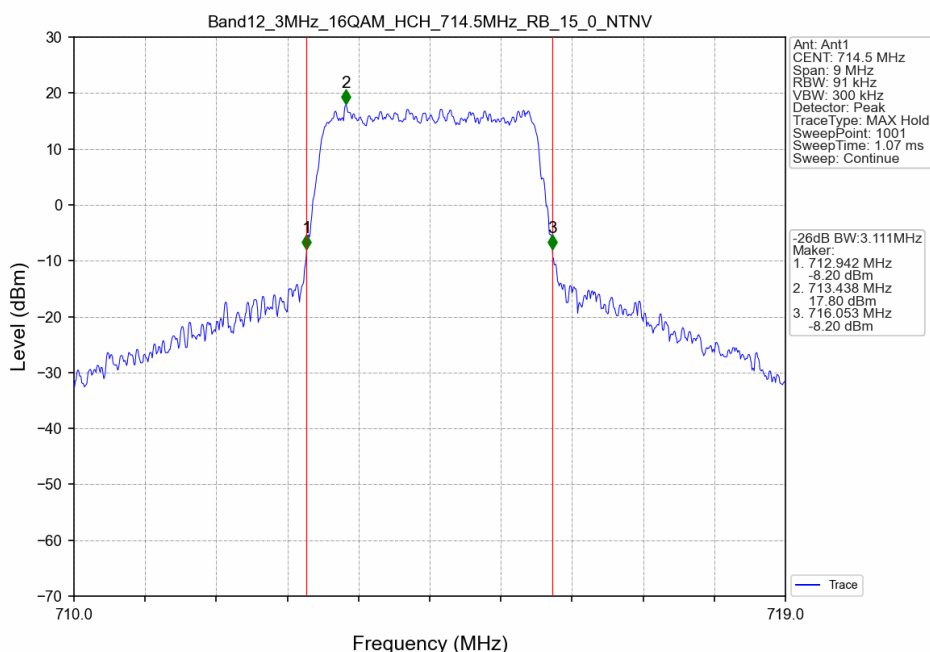
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

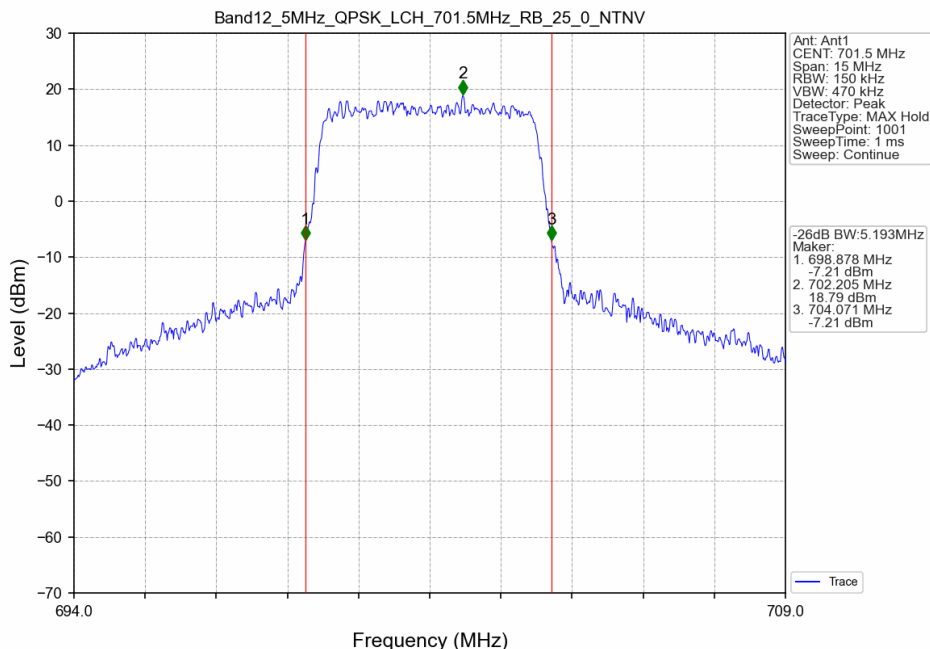


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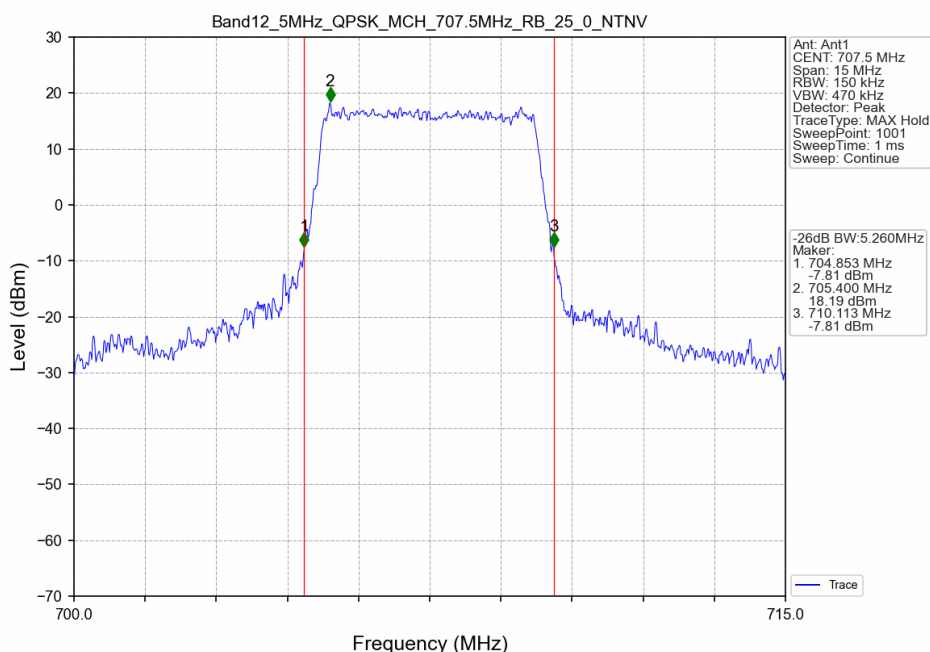
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Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

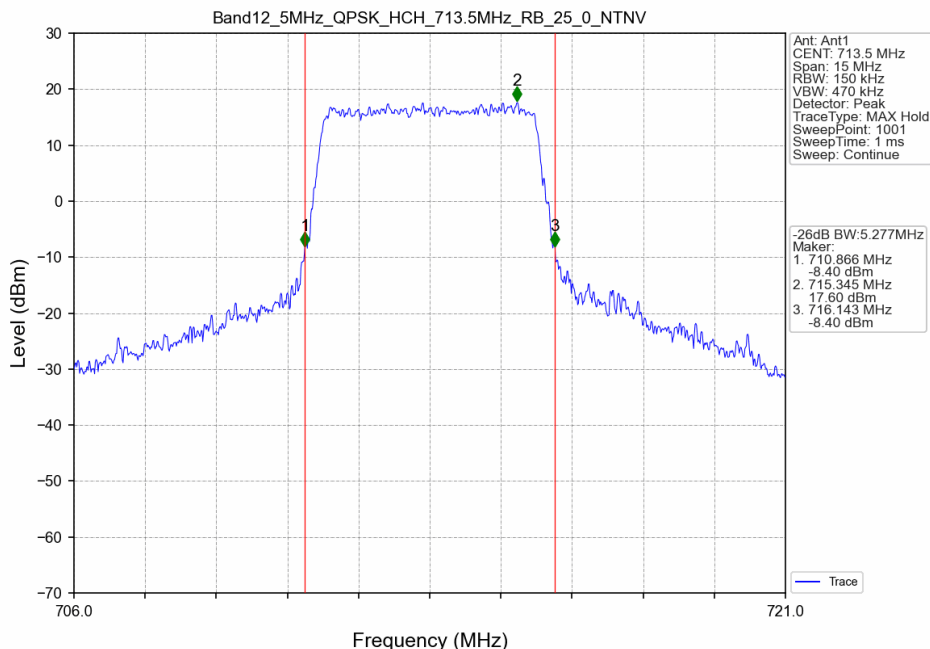


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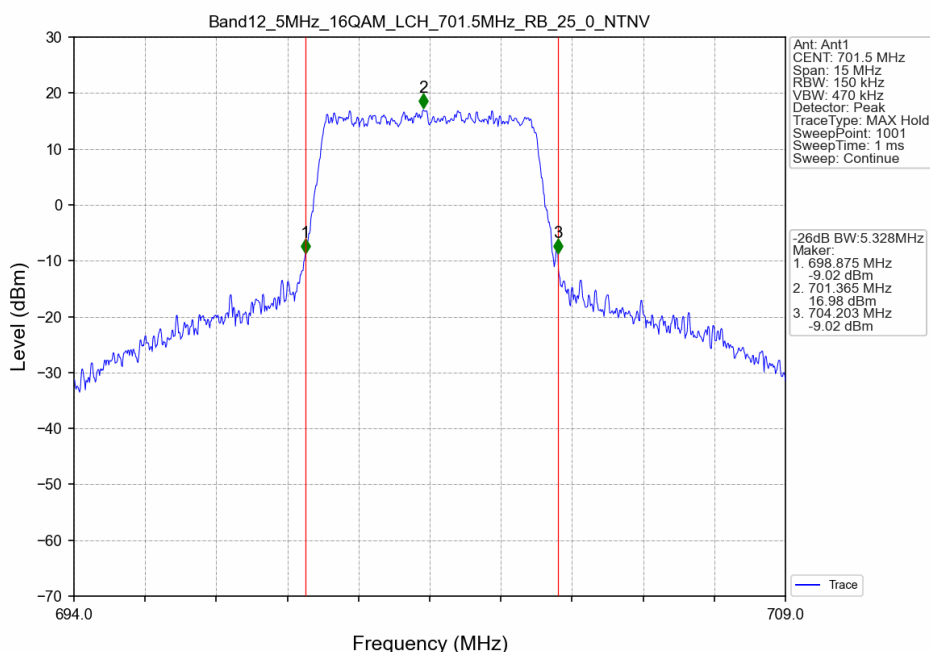
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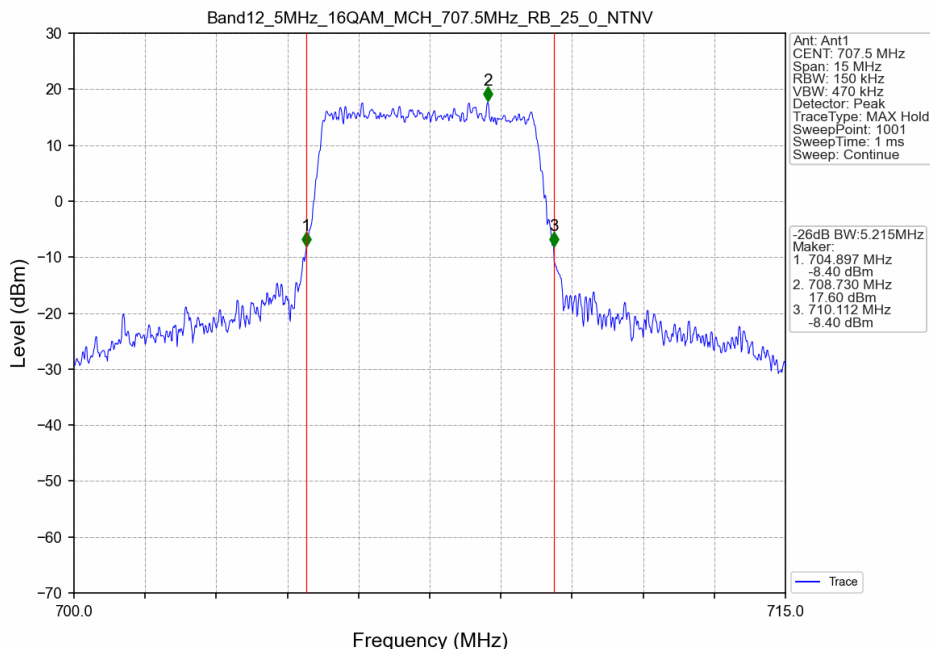


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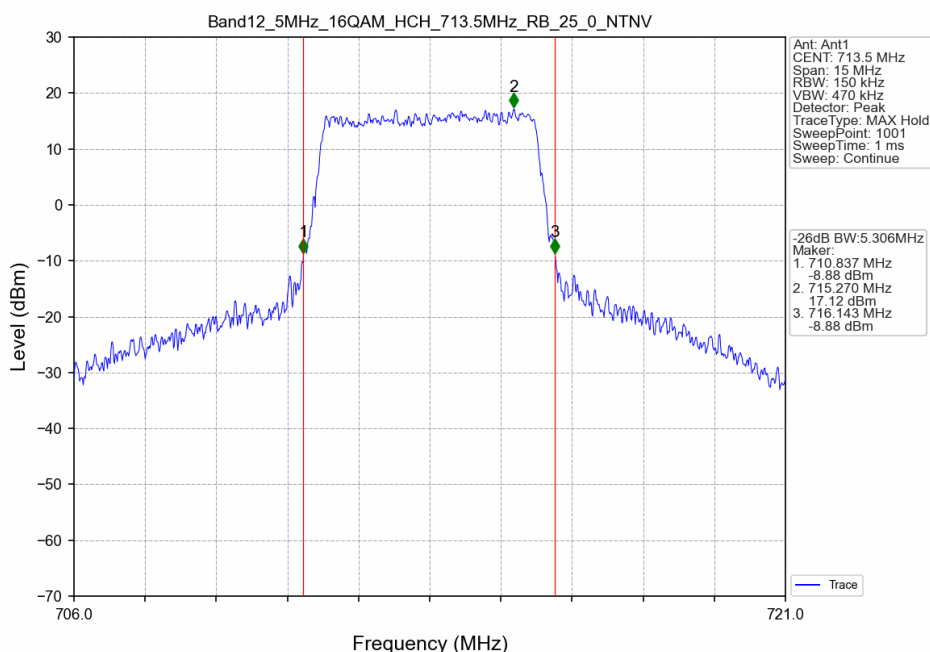
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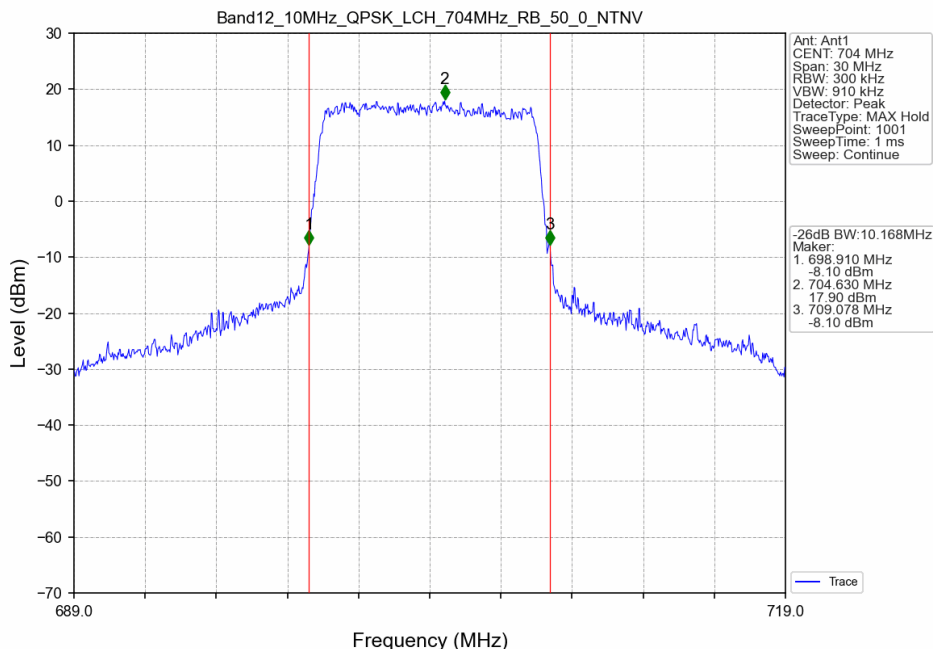


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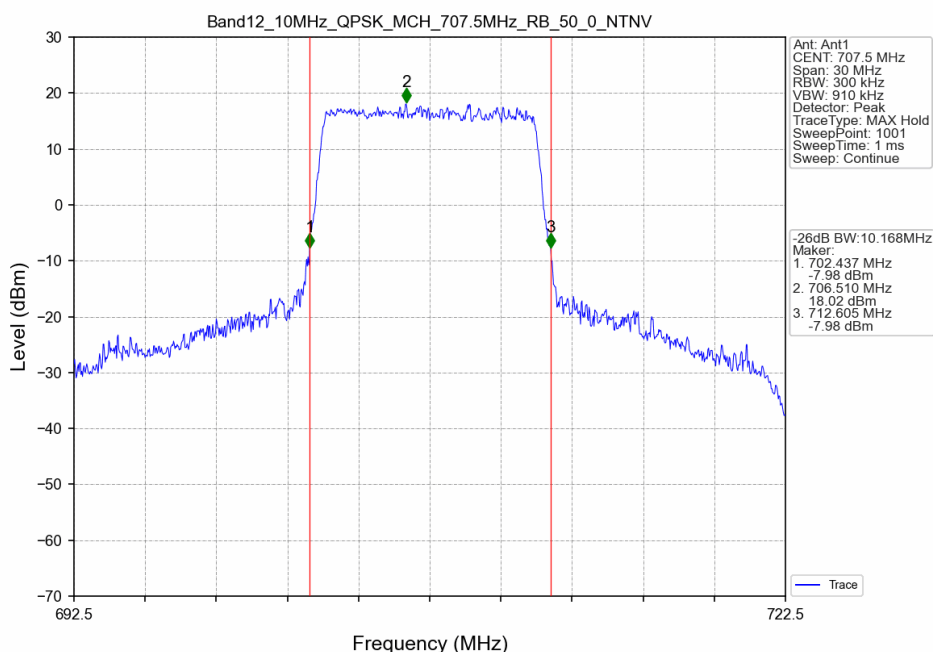
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

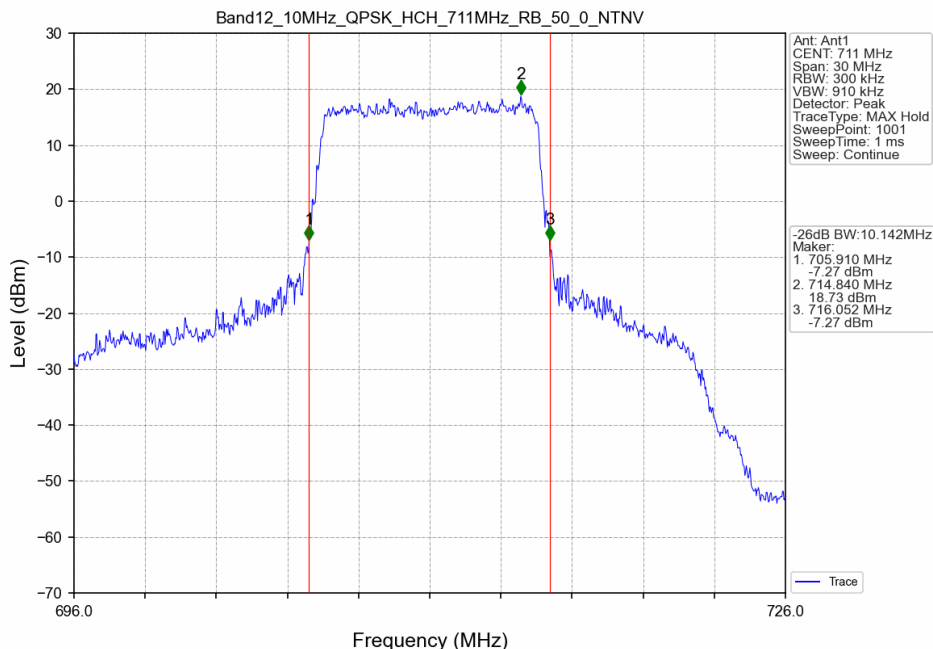


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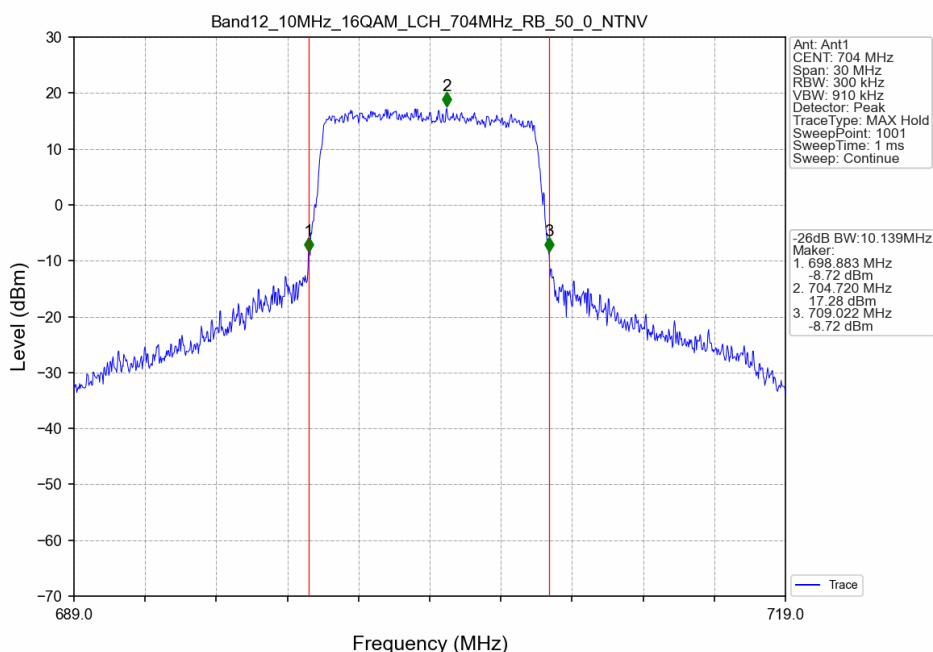
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

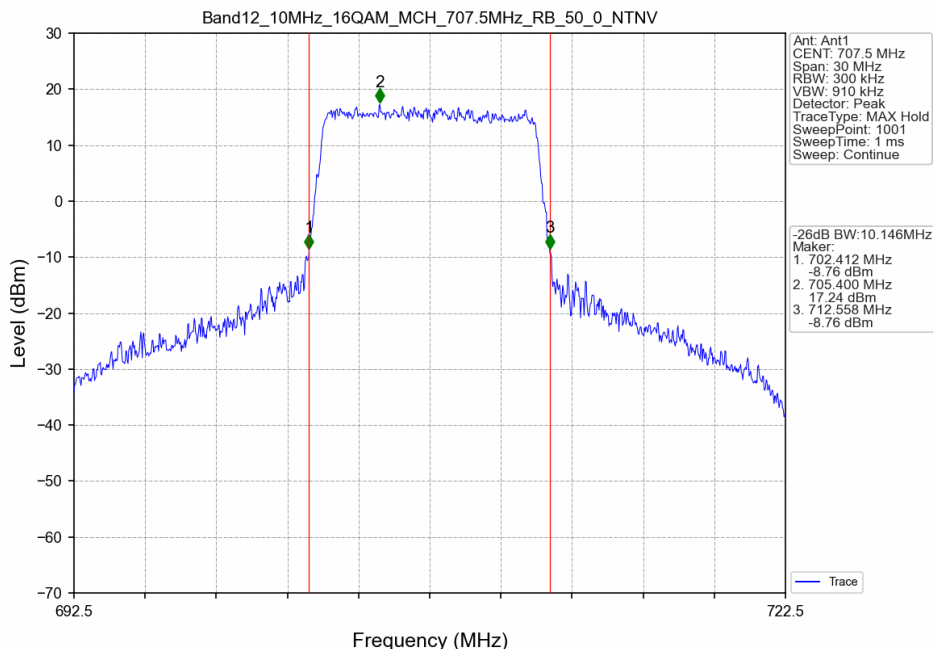


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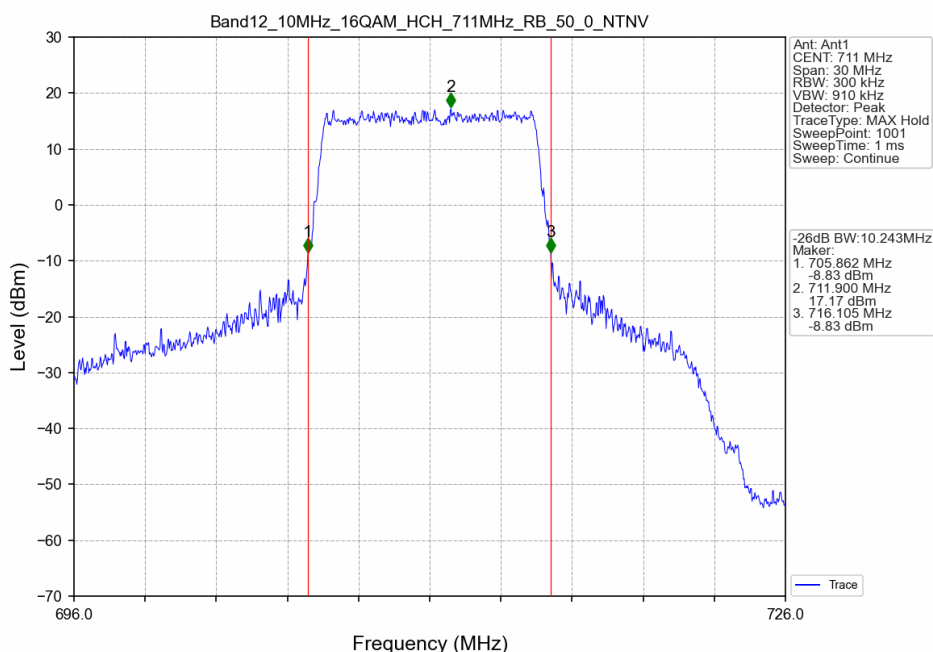
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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4. Peak-Average Ratio

4.1 Test Result

4.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.06	<=13	Pass
	707.5	50	0	5.34	<=13	Pass
	711	50	0	5.31	<=13	Pass
16QAM	704	50	0	5.90	<=13	Pass
	707.5	50	0	6.20	<=13	Pass
	711	50	0	6.16	<=13	Pass



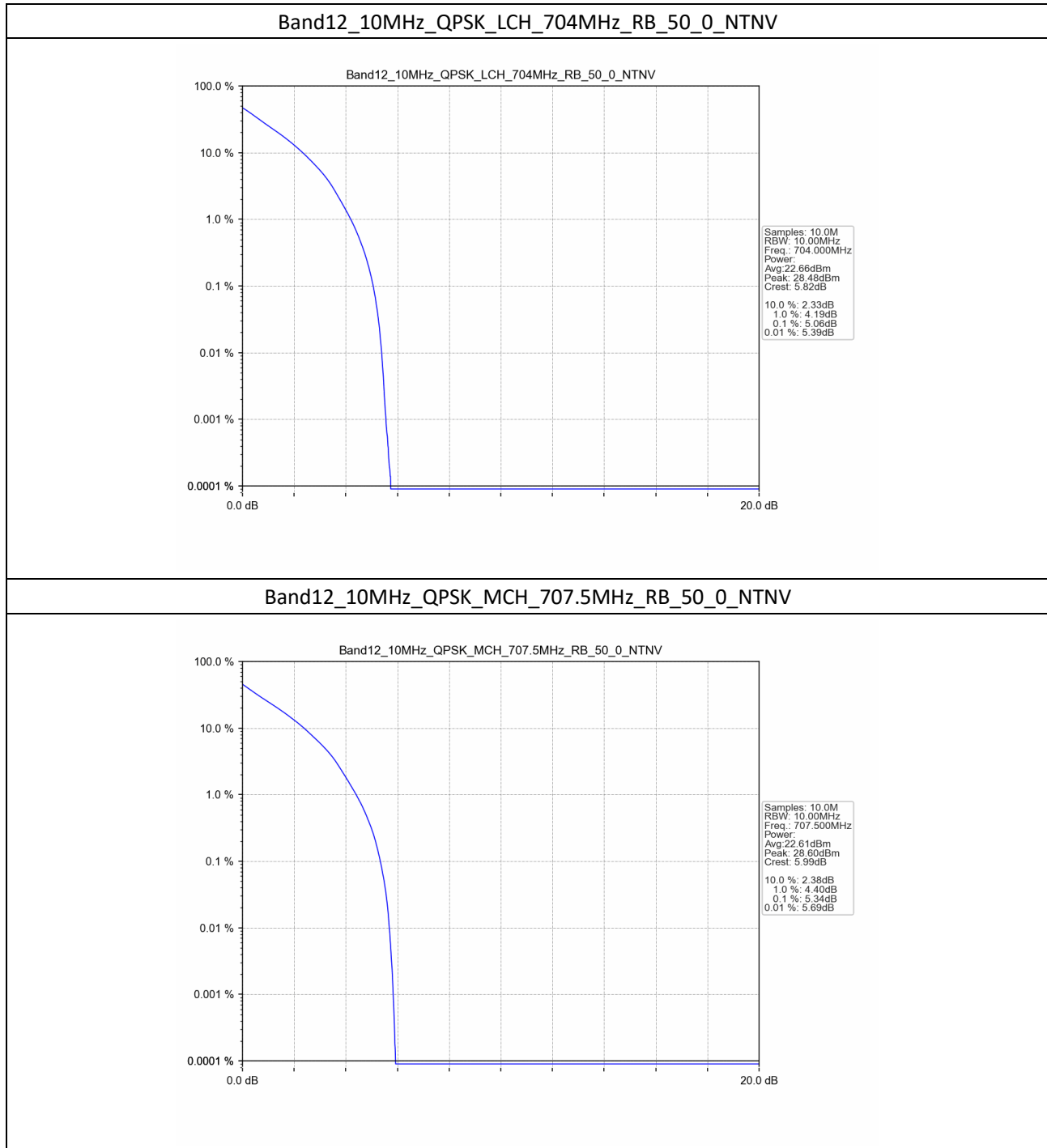
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4.2 Test Graph

4.2.1 B12_10MHz

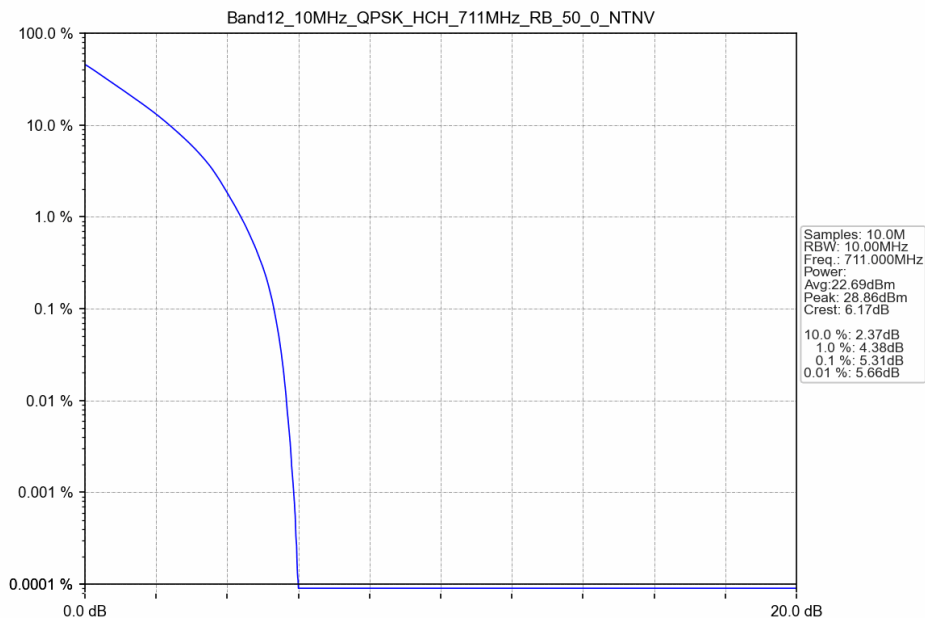


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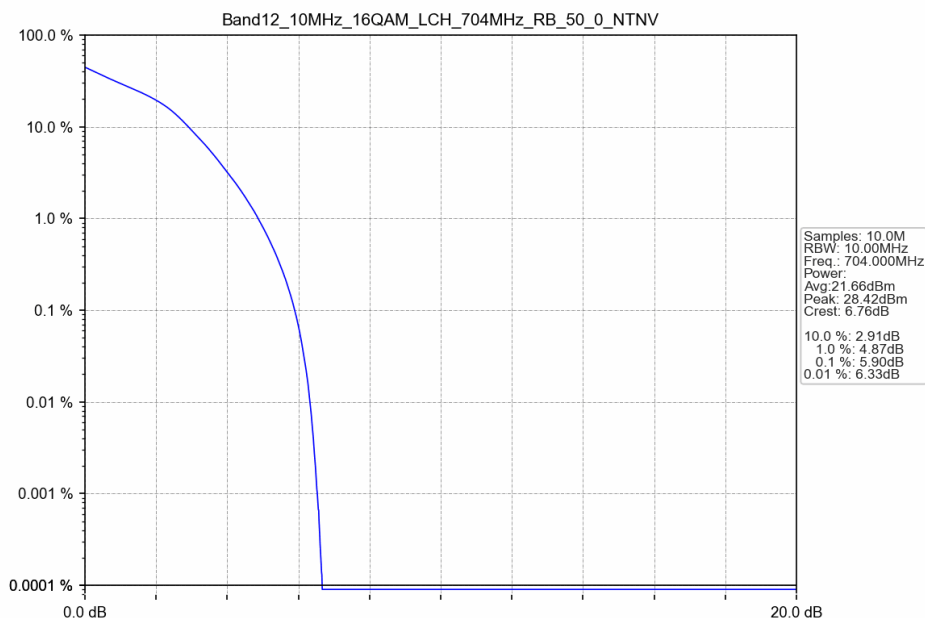
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

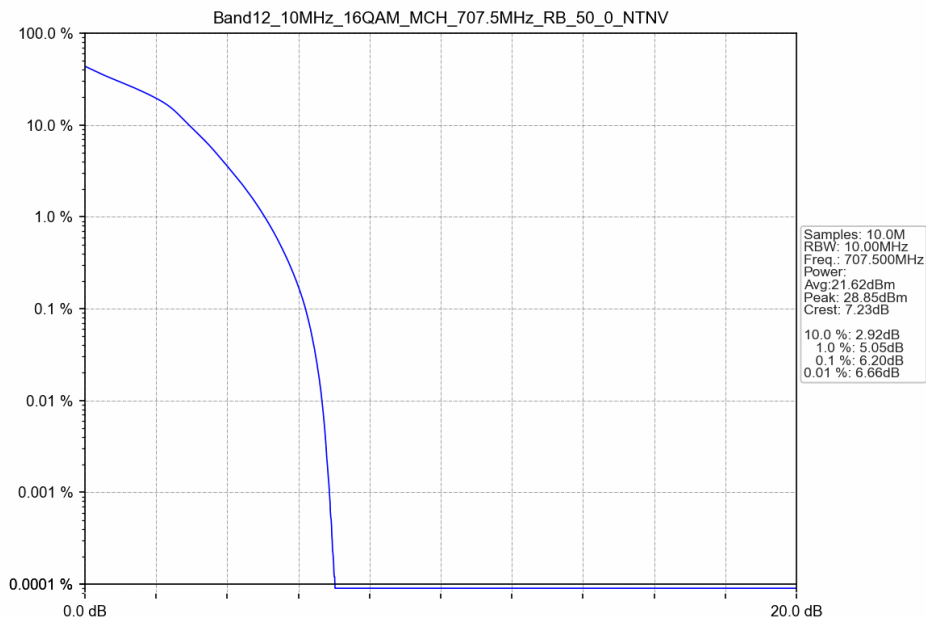


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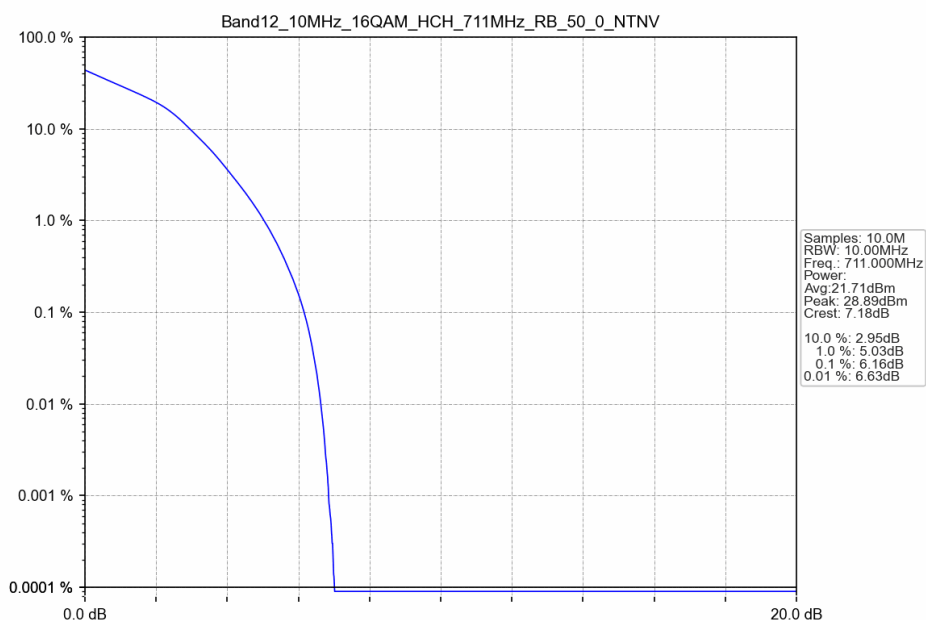
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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5. Spurious Emission

5.1 Test Result

5.1.1 B12_1.4MHz

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

5.1.2 B12_3MHz

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

5.1.3 B12_5MHz

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



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		24	Refer To Test Graph	Pass
	25	0	Refer To Test Graph	Pass

5.1.4 B12_10MHz

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



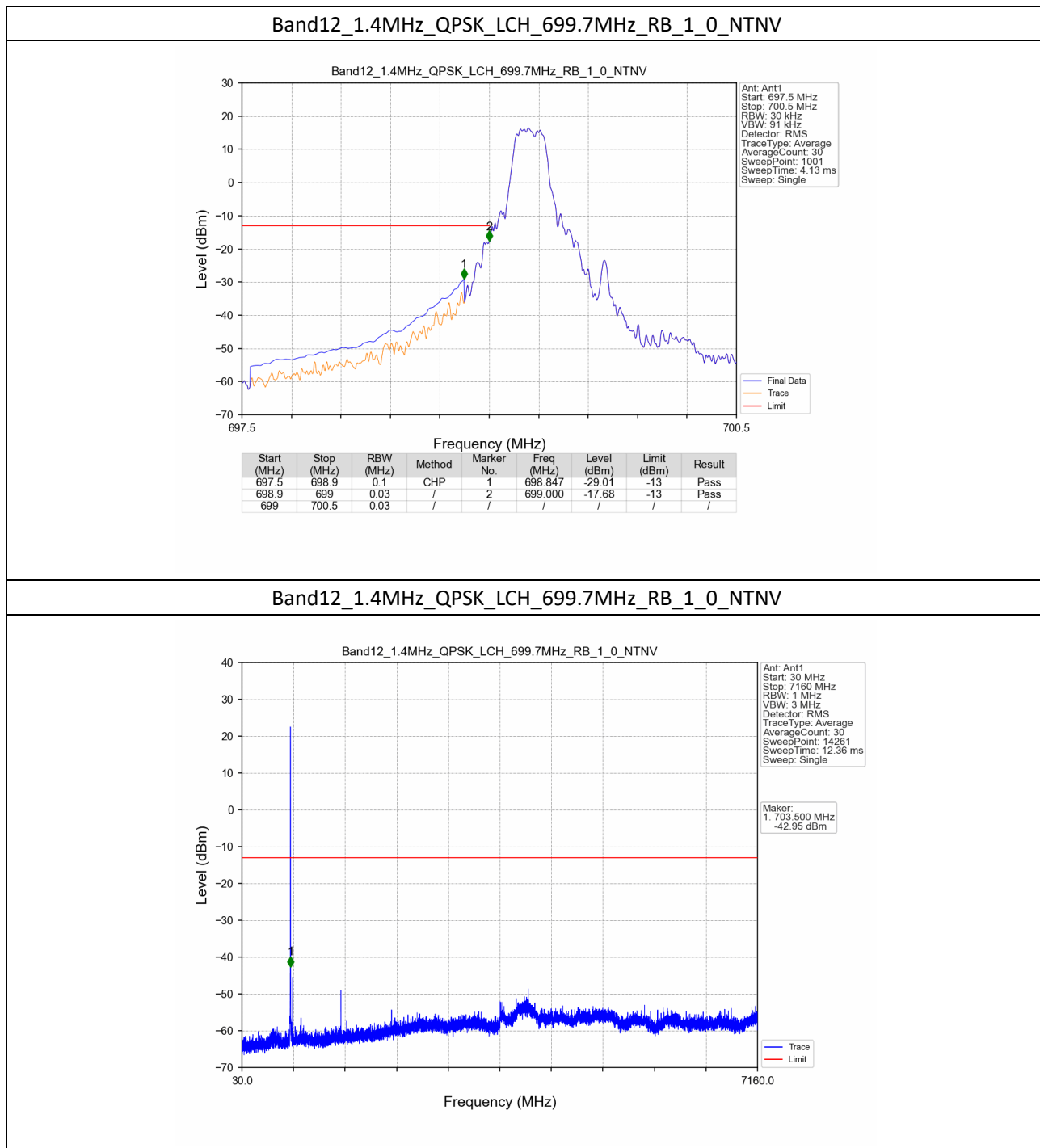
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5.2 Test Graph

5.2.1 B12_1.4MHz

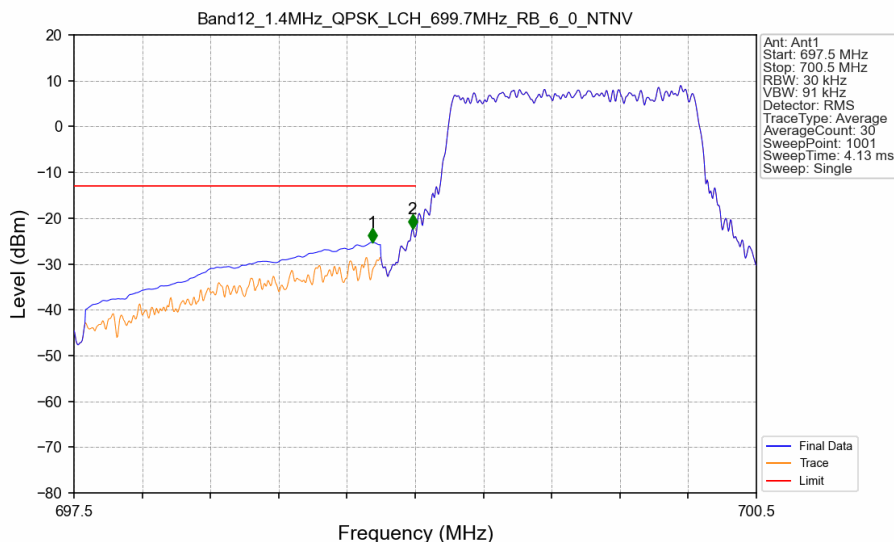


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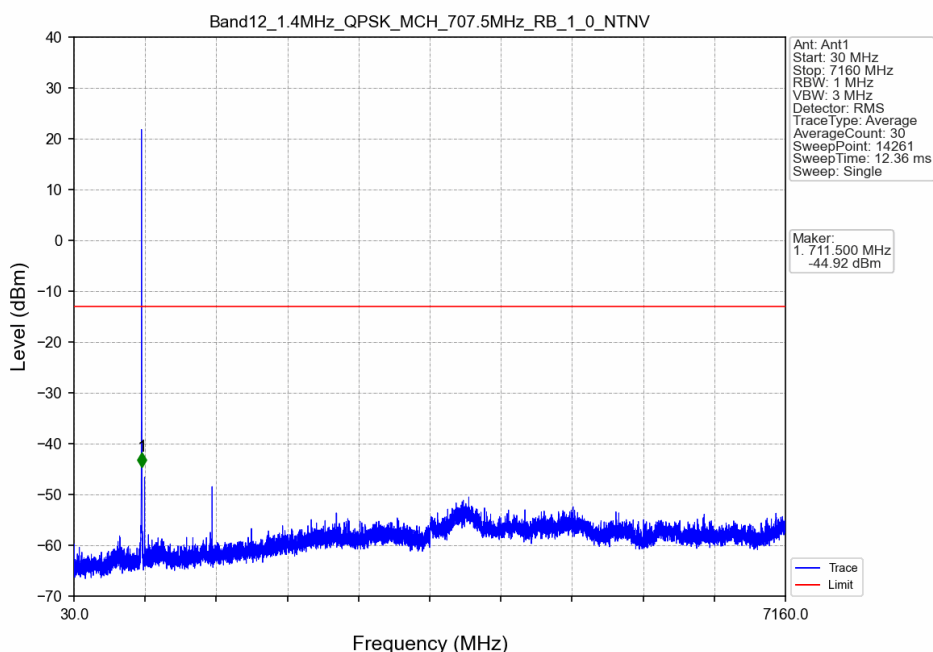
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Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

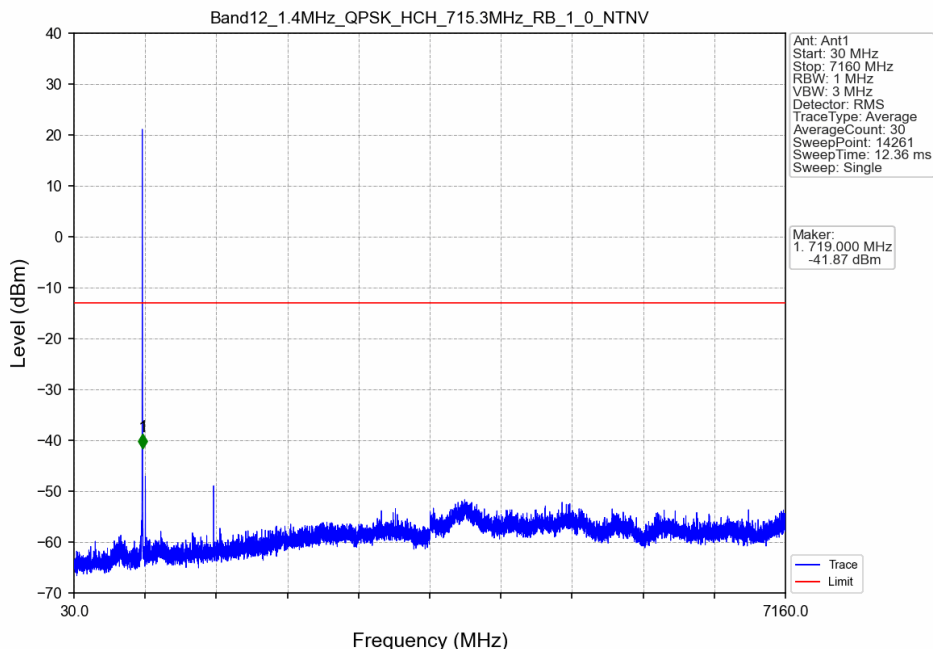


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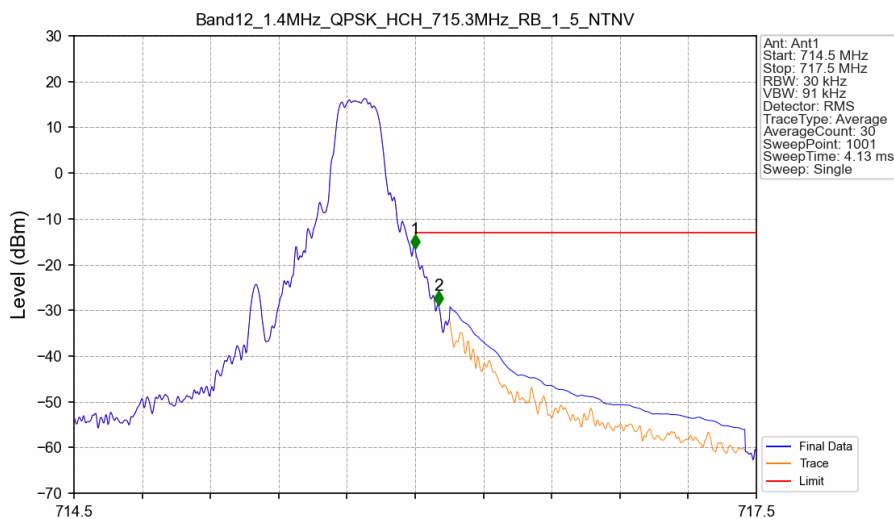
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-16.55	-13	Pass
716	716.1	0.03	/	2	716.102	-28.91	-13	Pass
716.1	717.5	0.1	CHP					

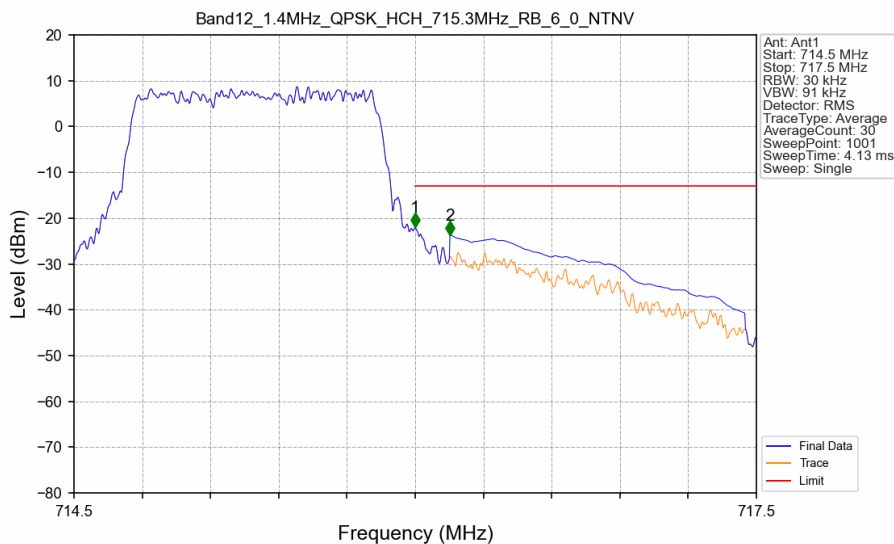


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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-22.04	-13	Pass
716	716.1	0.03	/	2	716.153	-23.78	-13	Pass
716.1	717.5	0.1	CHP					



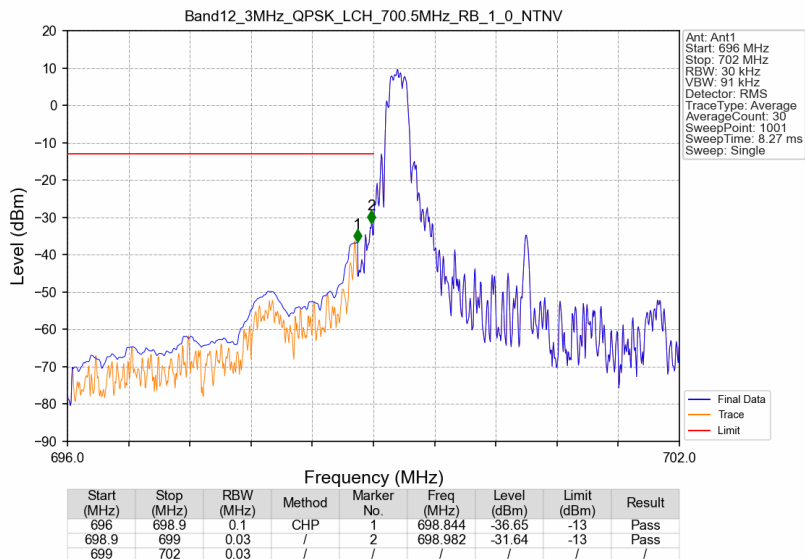
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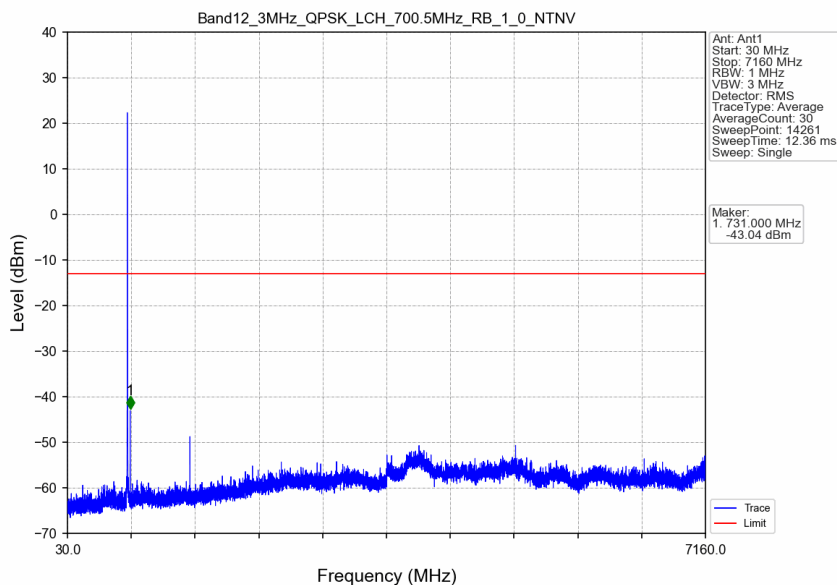
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5.2.2 B12_3MHz

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

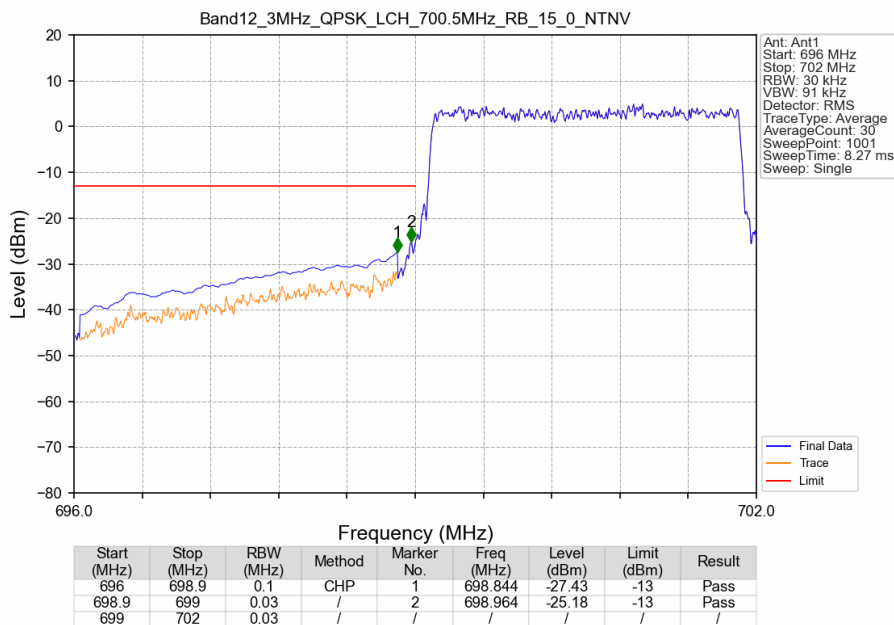


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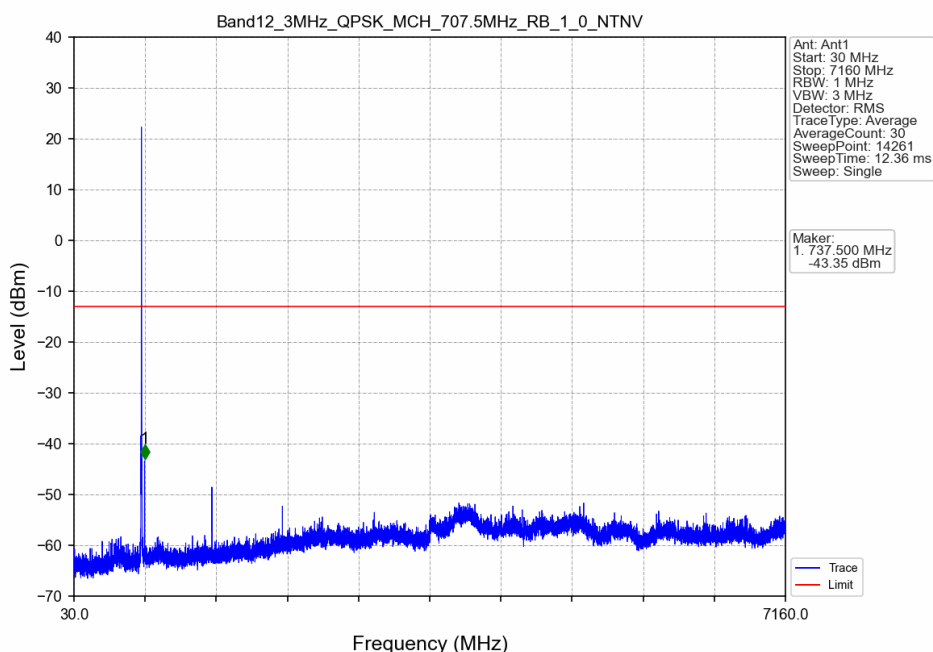
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

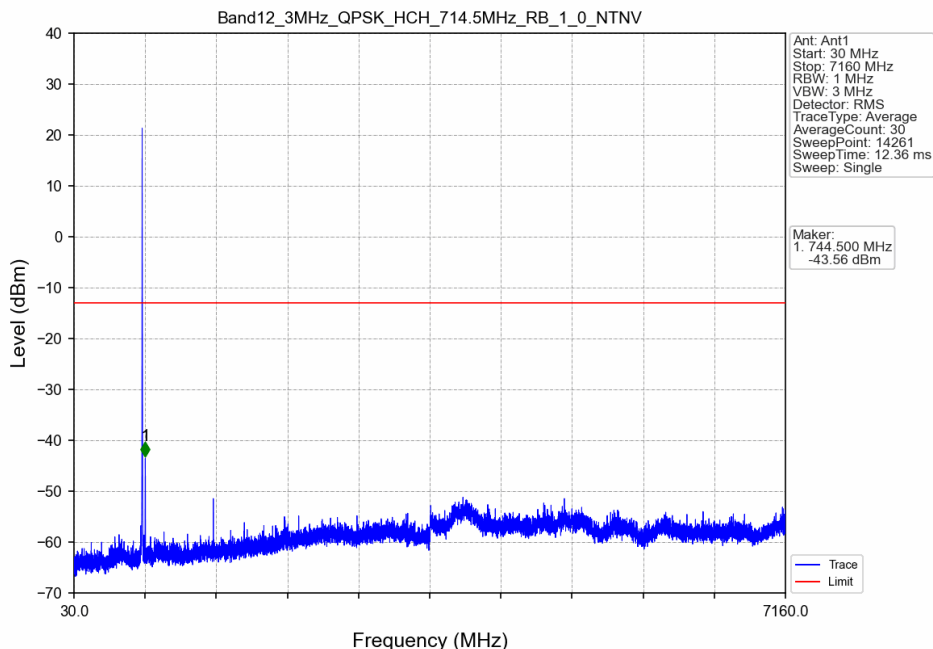


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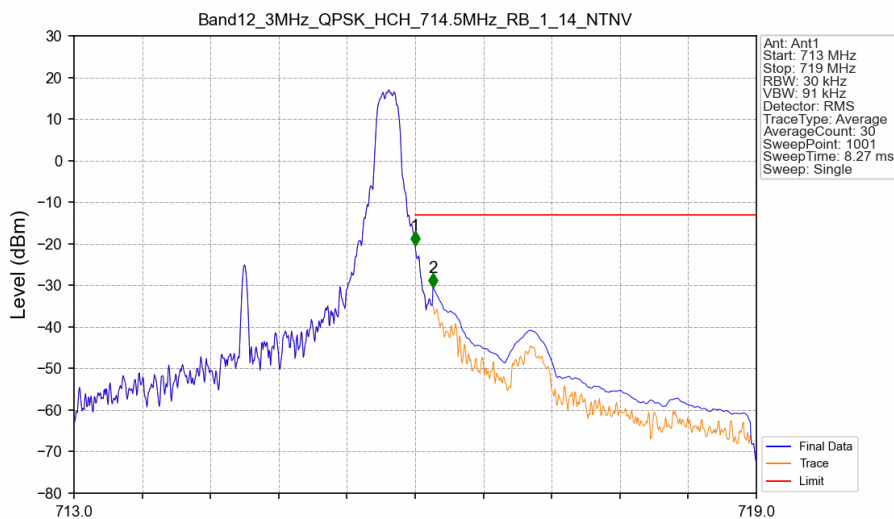
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.000	-20.46	-13	Pass
716	716.1	0.03	/	1	716.000	-20.46	-13	Pass
716.1	719	0.1	CHP	2	716.156	-30.56	-13	Pass

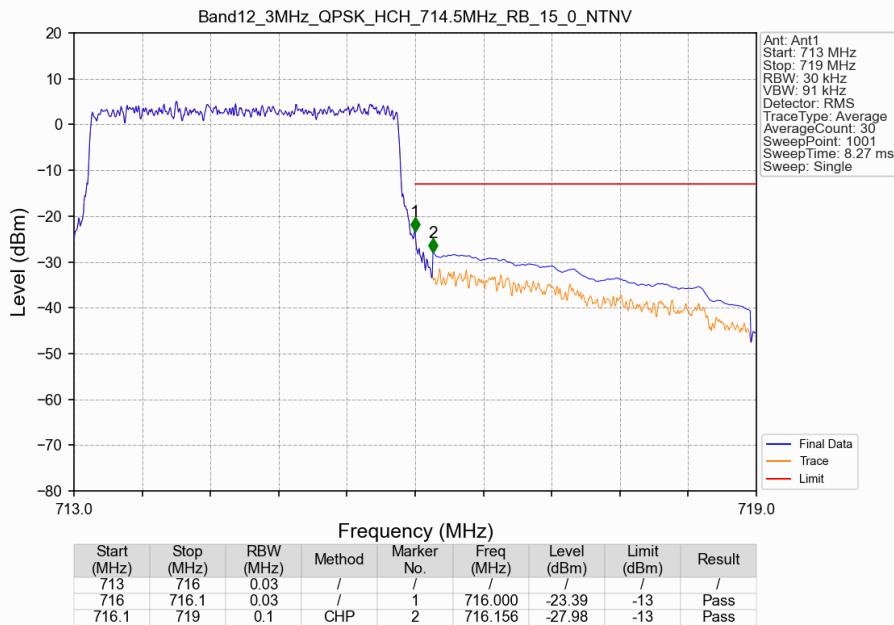


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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



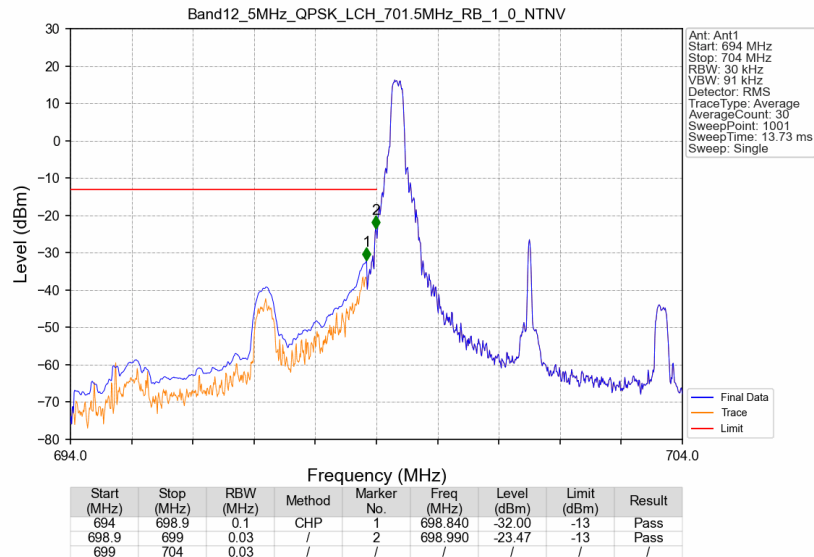
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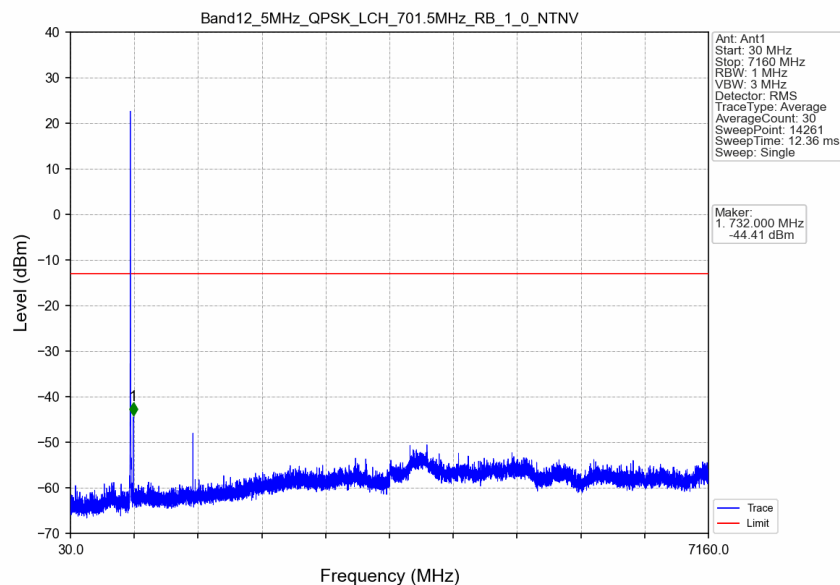
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5.2.3 B12_5MHz

Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

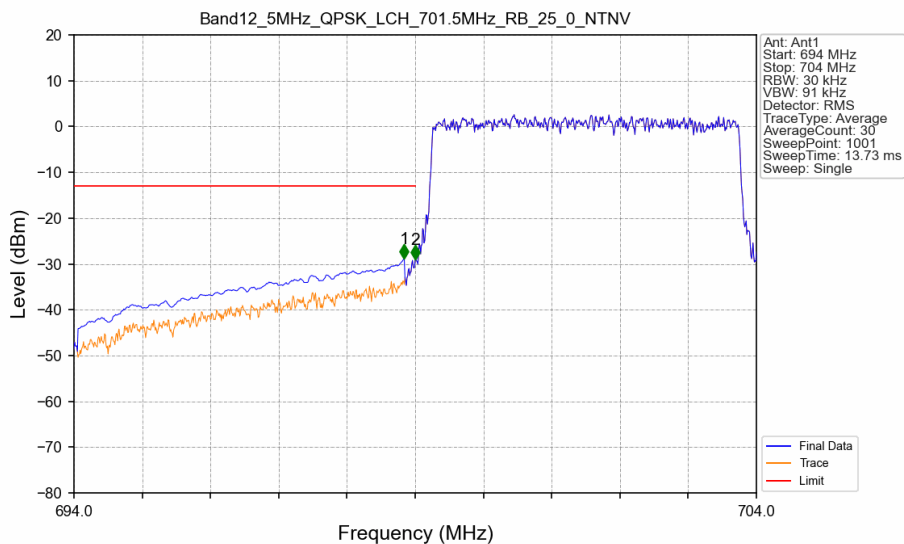


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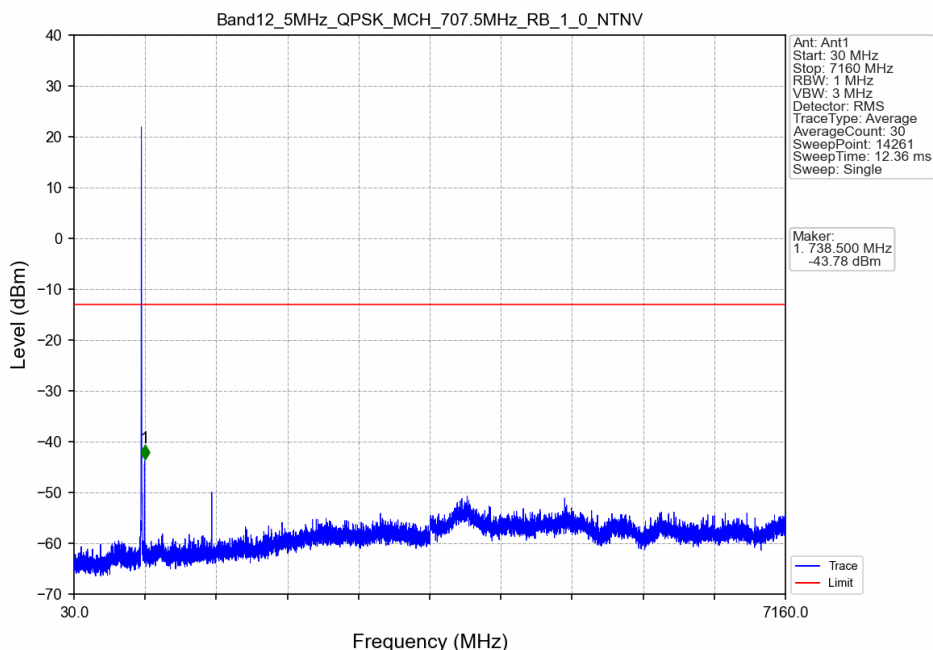
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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-28.84	-13	Pass
698.9	699	0.03	/	2	699.000	-29.09	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

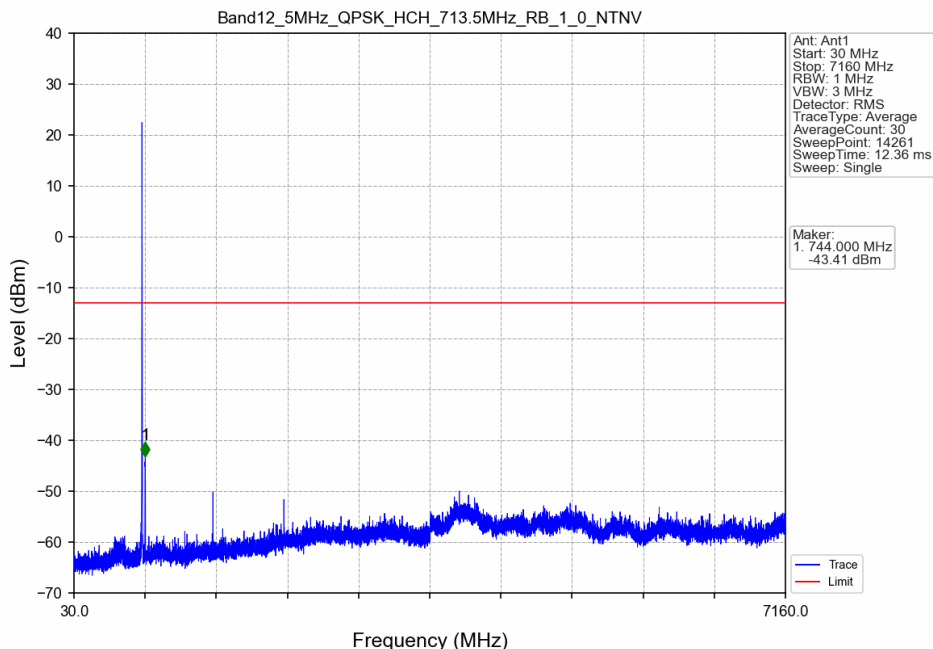


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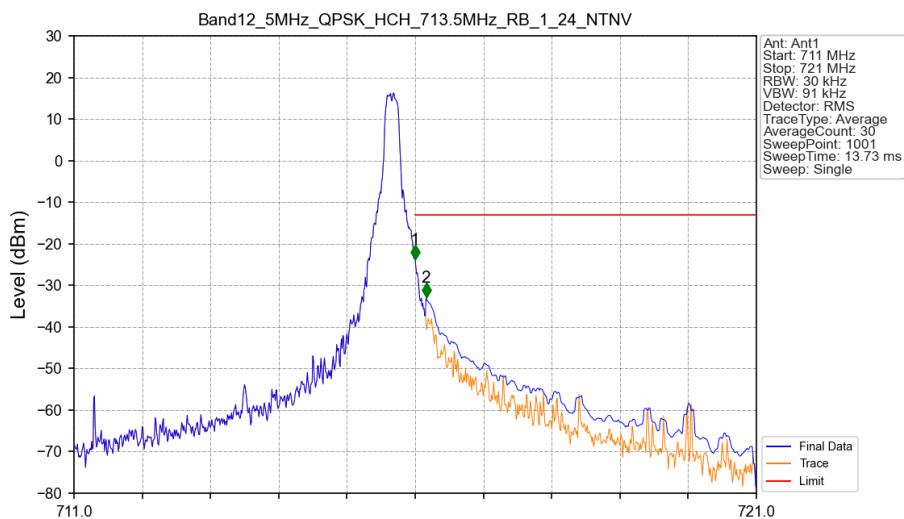
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-23.76	-13	Pass
716	716.1	0.03	/	1	716.000	-23.76	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.90	-13	Pass

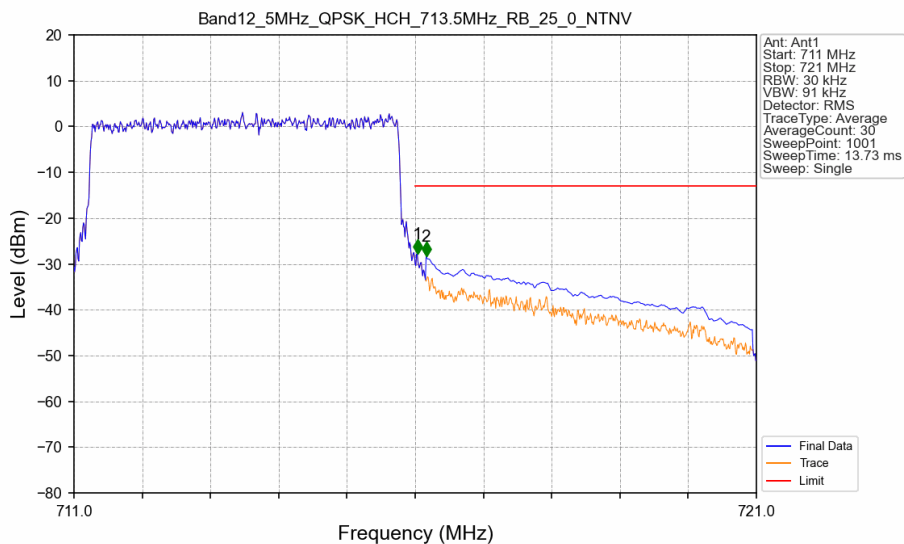


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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.030	-27.82	-13	Pass
716	716.1	0.03	/	2	716.160	-28.32	-13	Pass
716.1	721	0.1	CHP					



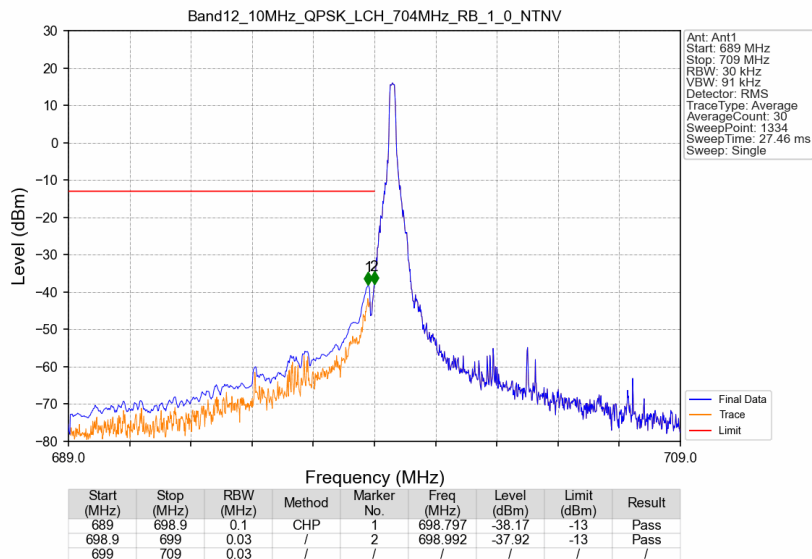
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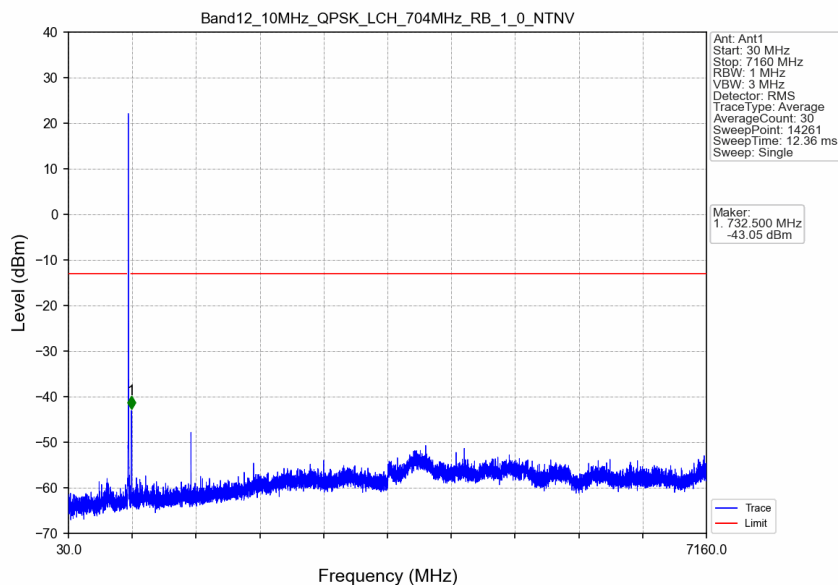
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5.2.4 B12_10MHz

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

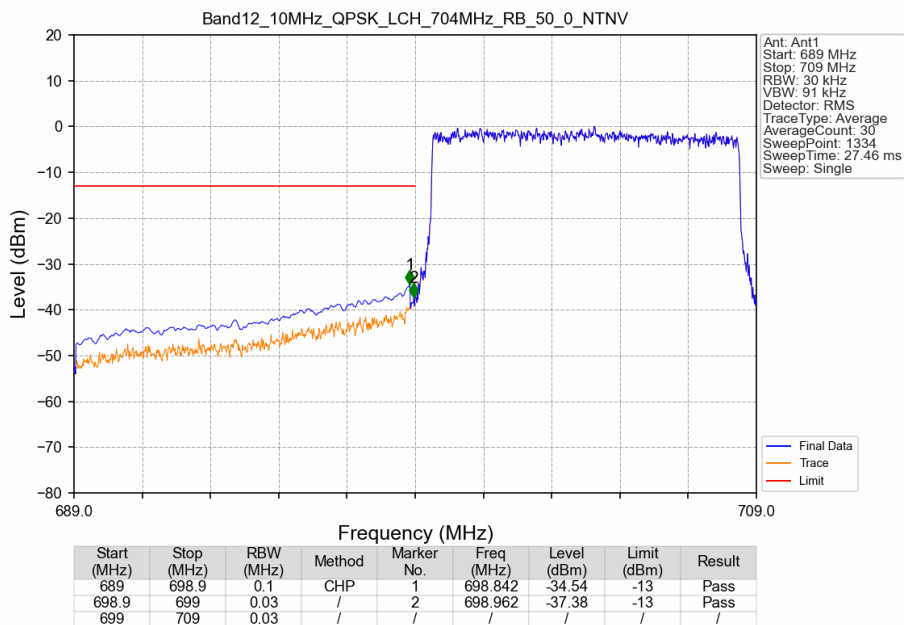


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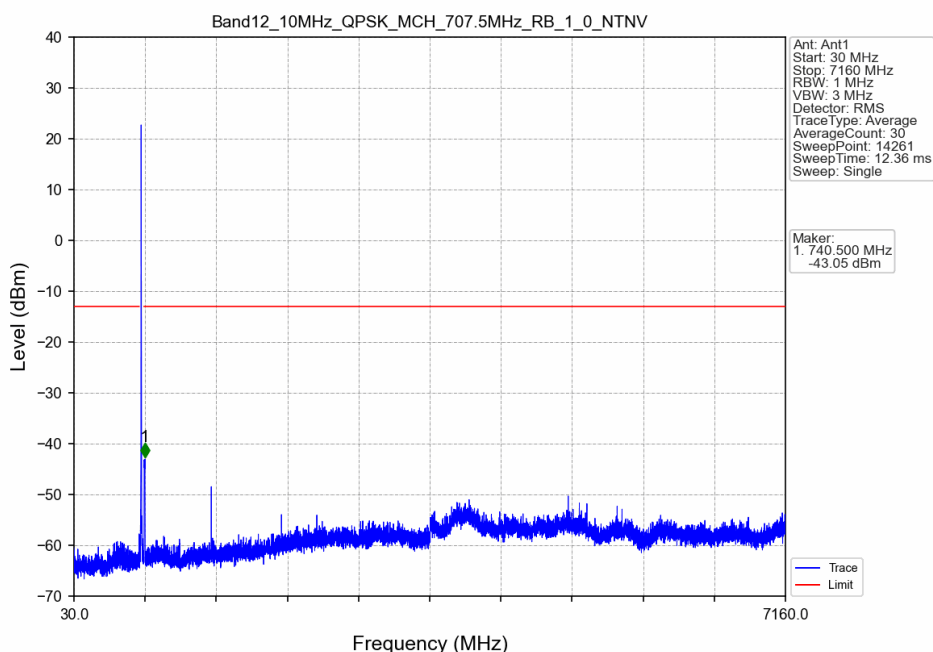
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

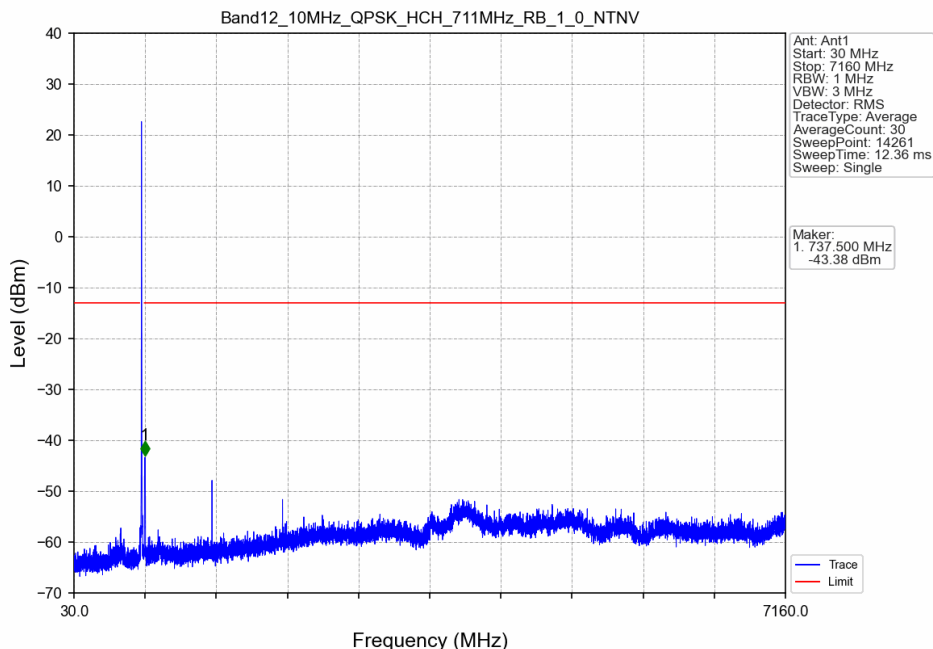


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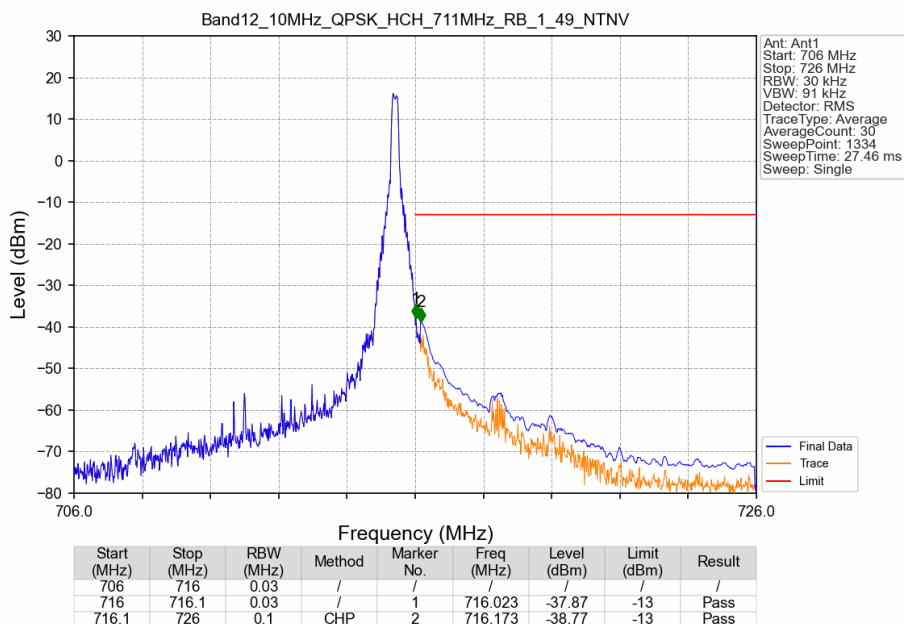
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Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV

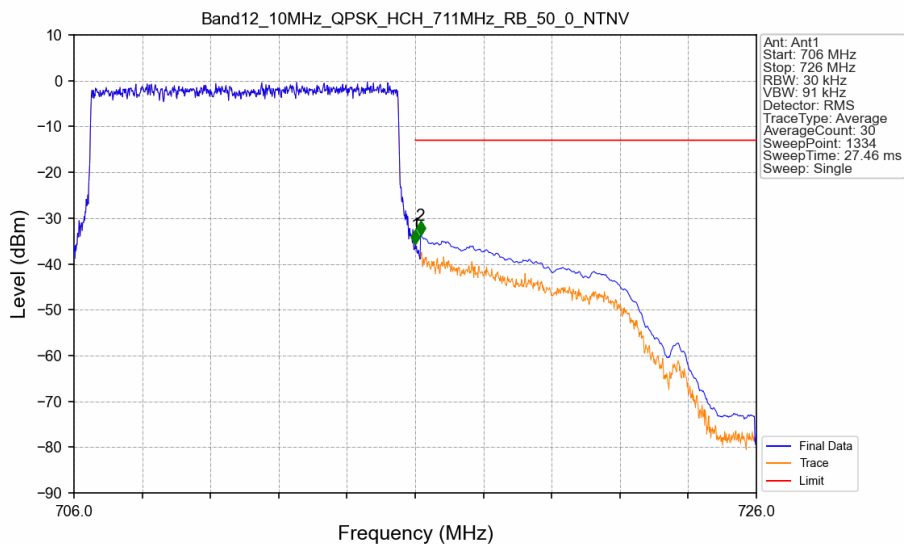


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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-35.63	-13	Pass
716	716.1	0.03	/	1	716.008	-35.63	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.77	-13	Pass



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6. Field Strength of Spurious Radiation

LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-68.71	-13	-55.71	-72.02	1.93	5.24	Horizontal	Pass
2098.5	-62.49	-13	-49.49	-64.94	2.41	4.86	Horizontal	Pass
2798.0	-63.48	-13	-50.48	-67.12	2.84	6.48	Horizontal	Pass
1399.0	-69.51	-13	-56.51	-72.82	1.93	5.24	Vertical	Pass
2098.5	-61.4	-13	-48.4	-63.85	2.41	4.86	Vertical	Pass
2798.0	-63.81	-13	-50.81	-67.45	2.84	6.48	Vertical	Pass
LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-68.66	-13	-55.66	-72.01	1.93	5.28	Horizontal	Pass
2109.0	-62.61	-13	-49.61	-65.07	2.42	4.88	Horizontal	Pass
2812.0	-63.72	-13	-50.72	-67.38	2.85	6.51	Horizontal	Pass
1406.0	-68.92	-13	-55.92	-72.27	1.93	5.28	Vertical	Pass
2109.0	-61.88	-13	-48.88	-64.34	2.42	4.88	Vertical	Pass
2812.0	-62.54	-13	-49.54	-66.2	2.85	6.51	Vertical	Pass
LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-68.9	-13	-55.9	-72.29	1.94	5.33	Horizontal	Pass
2119.5	-63.28	-13	-50.28	-65.77	2.42	4.91	Horizontal	Pass
2826.0	-63.06	-13	-50.06	-66.74	2.86	6.54	Horizontal	Pass
1413.0	-69.17	-13	-56.17	-72.56	1.94	5.33	Vertical	Pass
2119.5	-60.47	-13	-47.47	-62.96	2.42	4.91	Vertical	Pass
2826.0	-63.01	-13	-50.01	-66.69	2.86	6.54	Vertical	Pass

---End of Attachment---



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