

Report No.: SEWM2311000454RG01

Rev.: 01

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Appendix B.10

LTE Band 12



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP ANT0

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	699.7	1	0	23.17	-5.7	15.32	<=34.77	Pass		
			2	23.14	-5.7	15.29	<=34.77	Pass		
			5	23.1	-5.7	15.25	<=34.77	Pass		
		3	0	23.14	-5.7	15.29	<=34.77	Pass		
			2	23.19	-5.7	15.34	<=34.77	Pass		
			3	23.11	-5.7	15.26	<=34.77	Pass		
	6	0	22.14	-5.7	14.29	<=34.77	Pass			
		707.5	1	0	23.17	-5.7	15.32	<=34.77	Pass	
				2	23.24	-5.7	15.39	<=34.77	Pass	
	5			23.19	-5.7	15.34	<=34.77	Pass		
	3	0	23.24	-5.7	15.39	<=34.77	Pass			
		2	23.21	-5.7	15.36	<=34.77	Pass			
		3	23.18	-5.7	15.33	<=34.77	Pass			
	6	0	22.08	-5.7	14.23	<=34.77	Pass			
		715.3	1	0	23.27	-5.7	15.42	<=34.77	Pass	
				2	23.26	-5.7	15.41	<=34.77	Pass	
	5			23.05	-5.7	15.2	<=34.77	Pass		
	3	0	23.24	-5.7	15.39	<=34.77	Pass			
		2	23.16	-5.7	15.31	<=34.77	Pass			
		3	23.04	-5.7	15.19	<=34.77	Pass			
	6	0	22.2	-5.7	14.35	<=34.77	Pass			
		16QAM	699.7	1	0	22.3	-5.7	14.45	<=34.77	Pass
					2	22.36	-5.7	14.51	<=34.77	Pass
	5				22.24	-5.7	14.39	<=34.77	Pass	
3	0			22.19	-5.7	14.34	<=34.77	Pass		
	2			22.25	-5.7	14.4	<=34.77	Pass		
	3			22.22	-5.7	14.37	<=34.77	Pass		
6	0	21.09	-5.7	13.24	<=34.77	Pass				
	707.5	1	0	22.3	-5.7	14.45	<=34.77	Pass		
			2	22.42	-5.7	14.57	<=34.77	Pass		
5			22.34	-5.7	14.49	<=34.77	Pass			
3		0	22.26	-5.7	14.41	<=34.77	Pass			
		2	22.27	-5.7	14.42	<=34.77	Pass			
		3	22.26	-5.7	14.41	<=34.77	Pass			
6	0	21.23	-5.7	13.38	<=34.77	Pass				
	715.3	1	0	22.4	-5.7	14.55	<=34.77	Pass		
			2	22.39	-5.7	14.54	<=34.77	Pass		
5			22.27	-5.7	14.42	<=34.77	Pass			
3		0	22.27	-5.7	14.42	<=34.77	Pass			
		2	22.32	-5.7	14.47	<=34.77	Pass			



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			3	22.32	-5.7	14.47	<=34.77	Pass
		6	0	21.12	-5.7	13.27	<=34.77	Pass
64QAM	699.7	1	0	21.34	-5.7	13.49	<=34.77	Pass
			2	21.34	-5.7	13.49	<=34.77	Pass
			5	21.22	-5.7	13.37	<=34.77	Pass
		3	0	21.25	-5.7	13.4	<=34.77	Pass
			2	21.23	-5.7	13.38	<=34.77	Pass
			3	21.22	-5.7	13.37	<=34.77	Pass
	6	0	20.18	-5.7	12.33	<=34.77	Pass	
	707.5	1	0	21.31	-5.7	13.46	<=34.77	Pass
			2	21.39	-5.7	13.54	<=34.77	Pass
			5	21.4	-5.7	13.55	<=34.77	Pass
		3	0	21.29	-5.7	13.44	<=34.77	Pass
			2	21.33	-5.7	13.48	<=34.77	Pass
			3	21.35	-5.7	13.5	<=34.77	Pass
	6	0	20.19	-5.7	12.34	<=34.77	Pass	
	715.3	1	0	21.3	-5.7	13.45	<=34.77	Pass
			2	21.4	-5.7	13.55	<=34.77	Pass
			5	21.31	-5.7	13.46	<=34.77	Pass
		3	0	21.41	-5.7	13.56	<=34.77	Pass
			2	21.31	-5.7	13.46	<=34.77	Pass
			3	21.39	-5.7	13.54	<=34.77	Pass
	6	0	20.21	-5.7	12.36	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15								



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1.2 B12_3MHz_ERP

1.2.1 Test Result

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	23.04	-5.7	15.19	<=34.77	Pass		
			7	23.17	-5.7	15.32	<=34.77	Pass		
			14	23.07	-5.7	15.22	<=34.77	Pass		
		8	0	22.18	-5.7	14.33	<=34.77	Pass		
			4	22.23	-5.7	14.38	<=34.77	Pass		
			7	22.18	-5.7	14.33	<=34.77	Pass		
		15	0	22.19	-5.7	14.34	<=34.77	Pass		
		707.5	1	0	23.17	-5.7	15.32	<=34.77	Pass	
				7	23.29	-5.7	15.44	<=34.77	Pass	
	14			23.17	-5.7	15.32	<=34.77	Pass		
	8		0	22.13	-5.7	14.28	<=34.77	Pass		
			4	22.24	-5.7	14.39	<=34.77	Pass		
			7	22.22	-5.7	14.37	<=34.77	Pass		
	15		0	22.13	-5.7	14.28	<=34.77	Pass		
	714.5		1	0	23.14	-5.7	15.29	<=34.77	Pass	
				7	23.31	-5.7	15.46	<=34.77	Pass	
		14		23.13	-5.7	15.28	<=34.77	Pass		
		8	0	22.17	-5.7	14.32	<=34.77	Pass		
			4	22.28	-5.7	14.43	<=34.77	Pass		
			7	22.22	-5.7	14.37	<=34.77	Pass		
		15	0	22.25	-5.7	14.4	<=34.77	Pass		
		16QAM	700.5	1	0	22.22	-5.7	14.37	<=34.77	Pass
					7	22.32	-5.7	14.47	<=34.77	Pass
	14				22.29	-5.7	14.44	<=34.77	Pass	
8	0			21.22	-5.7	13.37	<=34.77	Pass		
	4			21.27	-5.7	13.42	<=34.77	Pass		
	7			21.25	-5.7	13.4	<=34.77	Pass		
15	0			21.22	-5.7	13.37	<=34.77	Pass		
707.5	1			0	22.36	-5.7	14.51	<=34.77	Pass	
				7	22.35	-5.7	14.5	<=34.77	Pass	
			14	22.24	-5.7	14.39	<=34.77	Pass		
	8		0	21.19	-5.7	13.34	<=34.77	Pass		
			4	21.34	-5.7	13.49	<=34.77	Pass		
			7	21.28	-5.7	13.43	<=34.77	Pass		
	15		0	21.13	-5.7	13.28	<=34.77	Pass		
	714.5		1	0	22.34	-5.7	14.49	<=34.77	Pass	
				7	22.45	-5.7	14.6	<=34.77	Pass	
14				22.36	-5.7	14.51	<=34.77	Pass		
8			0	21.22	-5.7	13.37	<=34.77	Pass		
			4	21.31	-5.7	13.46	<=34.77	Pass		



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			7	21.26	-5.7	13.41	<=34.77	Pass		
		15	0	21.24	-5.7	13.39	<=34.77	Pass		
64QAM	700.5	1	0	21.15	-5.7	13.3	<=34.77	Pass		
			7	21.23	-5.7	13.38	<=34.77	Pass		
			14	21.28	-5.7	13.43	<=34.77	Pass		
		8	0	20.13	-5.7	12.28	<=34.77	Pass		
			4	20.41	-5.7	12.56	<=34.77	Pass		
			7	20.21	-5.7	12.36	<=34.77	Pass		
		15	0	20.21	-5.7	12.36	<=34.77	Pass		
		707.5	1	0	21.33	-5.7	13.48	<=34.77	Pass	
				7	21.41	-5.7	13.56	<=34.77	Pass	
	14			21.24	-5.7	13.39	<=34.77	Pass		
	8		0	20	-5.7	12.15	<=34.77	Pass		
			4	20.24	-5.7	12.39	<=34.77	Pass		
			7	20.26	-5.7	12.41	<=34.77	Pass		
	15		0	20.16	-5.7	12.31	<=34.77	Pass		
	714.5		1	0	21.36	-5.7	13.51	<=34.77	Pass	
				7	21.45	-5.7	13.6	<=34.77	Pass	
		14		21.39	-5.7	13.54	<=34.77	Pass		
		8	0	20.22	-5.7	12.37	<=34.77	Pass		
			4	20.39	-5.7	12.54	<=34.77	Pass		
			7	20.25	-5.7	12.4	<=34.77	Pass		
		15	0	20.26	-5.7	12.41	<=34.77	Pass		
		Note1: ERP=Conducted Power+Antenna Gain-2.15								



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1.3 B12_5MHz_ERP

1.3.1 Test Result

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	23.23	-5.7	15.38	<=34.77	Pass		
			13	23.29	-5.7	15.44	<=34.77	Pass		
			24	23.19	-5.7	15.34	<=34.77	Pass		
		12	0	22.22	-5.7	14.37	<=34.77	Pass		
			6	22.29	-5.7	14.44	<=34.77	Pass		
			13	22.25	-5.7	14.4	<=34.77	Pass		
		25	0	22.26	-5.7	14.41	<=34.77	Pass		
		707.5	1	0	23.22	-5.7	15.37	<=34.77	Pass	
				13	23.33	-5.7	15.48	<=34.77	Pass	
	24			23.25	-5.7	15.4	<=34.77	Pass		
	12		0	22.17	-5.7	14.32	<=34.77	Pass		
			6	22.22	-5.7	14.37	<=34.77	Pass		
			13	22.25	-5.7	14.4	<=34.77	Pass		
	25		0	22.17	-5.7	14.32	<=34.77	Pass		
	713.5		1	0	23.31	-5.7	15.46	<=34.77	Pass	
				13	23.39	-5.7	15.54	<=34.77	Pass	
		24		23.23	-5.7	15.38	<=34.77	Pass		
		12	0	22.2	-5.7	14.35	<=34.77	Pass		
			6	22.25	-5.7	14.4	<=34.77	Pass		
			13	22.26	-5.7	14.41	<=34.77	Pass		
		25	0	22.18	-5.7	14.33	<=34.77	Pass		
		16QAM	701.5	1	0	22.27	-5.7	14.42	<=34.77	Pass
					13	22.43	-5.7	14.58	<=34.77	Pass
	24				22.21	-5.7	14.36	<=34.77	Pass	
12	0			21.26	-5.7	13.41	<=34.77	Pass		
	6			21.35	-5.7	13.5	<=34.77	Pass		
	13			21.33	-5.7	13.48	<=34.77	Pass		
25	0			21.25	-5.7	13.4	<=34.77	Pass		
707.5	1			0	22.4	-5.7	14.55	<=34.77	Pass	
				13	22.41	-5.7	14.56	<=34.77	Pass	
			24	22.29	-5.7	14.44	<=34.77	Pass		
	12		0	21.2	-5.7	13.35	<=34.77	Pass		
			6	21.34	-5.7	13.49	<=34.77	Pass		
			13	21.19	-5.7	13.34	<=34.77	Pass		
	25		0	21.18	-5.7	13.33	<=34.77	Pass		
	713.5		1	0	22.43	-5.7	14.58	<=34.77	Pass	
				13	22.53	-5.7	14.68	<=34.77	Pass	
24				22.37	-5.7	14.52	<=34.77	Pass		
12			0	21.26	-5.7	13.41	<=34.77	Pass		
			6	21.26	-5.7	13.41	<=34.77	Pass		
			6	21.26	-5.7	13.41	<=34.77	Pass		



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			13	21.29	-5.7	13.44	<=34.77	Pass
		25	0	21.24	-5.7	13.39	<=34.77	Pass
64QAM	701.5	1	0	21.2	-5.7	13.35	<=34.77	Pass
			13	21.32	-5.7	13.47	<=34.77	Pass
			24	21.15	-5.7	13.3	<=34.77	Pass
		12	0	20.22	-5.7	12.37	<=34.77	Pass
			6	20.29	-5.7	12.44	<=34.77	Pass
			13	20.25	-5.7	12.4	<=34.77	Pass
	25	0	20.29	-5.7	12.44	<=34.77	Pass	
	707.5	1	0	21.37	-5.7	13.52	<=34.77	Pass
			13	21.49	-5.7	13.64	<=34.77	Pass
			24	21.35	-5.7	13.5	<=34.77	Pass
		12	0	20.2	-5.7	12.35	<=34.77	Pass
			6	20.24	-5.7	12.39	<=34.77	Pass
			13	20.26	-5.7	12.41	<=34.77	Pass
	25	0	20.2	-5.7	12.35	<=34.77	Pass	
	713.5	1	0	21.44	-5.7	13.59	<=34.77	Pass
			13	21.53	-5.7	13.68	<=34.77	Pass
			24	21.41	-5.7	13.56	<=34.77	Pass
		12	0	20.21	-5.7	12.36	<=34.77	Pass
			6	20.26	-5.7	12.41	<=34.77	Pass
			13	20.3	-5.7	12.45	<=34.77	Pass
25	0	20.23	-5.7	12.38	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15								



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1.4 B12_10MHz_ERP

1.4.1 Test Result

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	23.29	-5.7	15.44	<=34.77	Pass		
			25	23.27	-5.7	15.42	<=34.77	Pass		
			49	23.15	-5.7	15.3	<=34.77	Pass		
		25	0	22.2	-5.7	14.35	<=34.77	Pass		
			13	22.29	-5.7	14.44	<=34.77	Pass		
			25	22.24	-5.7	14.39	<=34.77	Pass		
		50	0	22.27	-5.7	14.42	<=34.77	Pass		
		707.5	1	0	23.32	-5.7	15.47	<=34.77	Pass	
				25	23.28	-5.7	15.43	<=34.77	Pass	
	49			23.28	-5.7	15.43	<=34.77	Pass		
	25		0	22.26	-5.7	14.41	<=34.77	Pass		
			13	22.21	-5.7	14.36	<=34.77	Pass		
			25	22.23	-5.7	14.38	<=34.77	Pass		
	50		0	22.2	-5.7	14.35	<=34.77	Pass		
	711		1	0	23.3	-5.7	15.45	<=34.77	Pass	
				25	23.34	-5.7	15.49	<=34.77	Pass	
		49		23.23	-5.7	15.38	<=34.77	Pass		
		25	0	22.2	-5.7	14.35	<=34.77	Pass		
			13	22.3	-5.7	14.45	<=34.77	Pass		
			25	22.23	-5.7	14.38	<=34.77	Pass		
		50	0	22.27	-5.7	14.42	<=34.77	Pass		
		16QAM	704	1	0	22.34	-5.7	14.49	<=34.77	Pass
					25	22.43	-5.7	14.58	<=34.77	Pass
	49				22.28	-5.7	14.43	<=34.77	Pass	
25	0			21.2	-5.7	13.35	<=34.77	Pass		
	13			21.28	-5.7	13.43	<=34.77	Pass		
	25			21.24	-5.7	13.39	<=34.77	Pass		
50	0			21.27	-5.7	13.42	<=34.77	Pass		
707.5	1			0	22.57	-5.7	14.72	<=34.77	Pass	
				25	22.34	-5.7	14.49	<=34.77	Pass	
			49	22.36	-5.7	14.51	<=34.77	Pass		
	25		0	21.22	-5.7	13.37	<=34.77	Pass		
			13	21.24	-5.7	13.39	<=34.77	Pass		
			25	21.27	-5.7	13.42	<=34.77	Pass		
	50		0	21.18	-5.7	13.33	<=34.77	Pass		
	711		1	0	22.44	-5.7	14.59	<=34.77	Pass	
				25	22.48	-5.7	14.63	<=34.77	Pass	
49				22.39	-5.7	14.54	<=34.77	Pass		
25			0	21.22	-5.7	13.37	<=34.77	Pass		
			13	21.29	-5.7	13.44	<=34.77	Pass		



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			25	21.28	-5.7	13.43	<=34.77	Pass
		50	0	21.28	-5.7	13.43	<=34.77	Pass
64QAM	704	1	0	21.45	-5.7	13.6	<=34.77	Pass
			25	21.42	-5.7	13.57	<=34.77	Pass
			49	21.3	-5.7	13.45	<=34.77	Pass
		25	0	20.22	-5.7	12.37	<=34.77	Pass
			13	20.28	-5.7	12.43	<=34.77	Pass
			25	20.25	-5.7	12.4	<=34.77	Pass
	50	0	20.28	-5.7	12.43	<=34.77	Pass	
	707.5	1	0	21.43	-5.7	13.58	<=34.77	Pass
			25	21.44	-5.7	13.59	<=34.77	Pass
			49	21.28	-5.7	13.43	<=34.77	Pass
		25	0	20.22	-5.7	12.37	<=34.77	Pass
			13	20.21	-5.7	12.36	<=34.77	Pass
			25	20.26	-5.7	12.41	<=34.77	Pass
	50	0	20.22	-5.7	12.37	<=34.77	Pass	
	711	1	0	21.42	-5.7	13.57	<=34.77	Pass
			25	21.42	-5.7	13.57	<=34.77	Pass
			49	21.34	-5.7	13.49	<=34.77	Pass
		25	0	20.24	-5.7	12.39	<=34.77	Pass
			13	20.33	-5.7	12.48	<=34.77	Pass
			25	20.3	-5.7	12.45	<=34.77	Pass
	50	0	20.3	-5.7	12.45	<=34.77	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.5	-17.148	-0.0245	/	Pass
					3.91	-20.457	-0.0292	/	Pass
					4.35	-17.184	-0.0246	/	Pass
				-30	3.91	-9.442	-0.0135	/	Pass
				-20	3.91	-5.511	-0.0079	/	Pass
				-10	3.91	-2.899	-0.0041	/	Pass
				0	3.91	-1.529	-0.0022	/	Pass
				10	3.91	-0.735	-0.0011	/	Pass
				30	3.91	0.128	0.0002	/	Pass
				40	3.91	0.448	0.0006	/	Pass
	50	3.91	0.184	0.0003	/	Pass			
	707.5	6	0	20	3.5	14.701	0.0208	/	Pass
					3.91	10.388	0.0147	/	Pass
					4.35	6.680	0.0094	/	Pass
				-30	3.91	3.800	0.0054	/	Pass
				-20	3.91	2.732	0.0039	/	Pass
				-10	3.91	0.928	0.0013	/	Pass
				0	3.91	0.836	0.0012	/	Pass
				10	3.91	0.240	0.0003	/	Pass
				30	3.91	-0.415	-0.0006	/	Pass
				40	3.91	0.507	0.0007	/	Pass
	50	3.91	1.375	0.0019	/	Pass			
	715.3	6	0	20	3.5	-19.276	-0.0269	/	Pass
					3.91	-8.660	-0.0121	/	Pass
					4.35	-5.475	-0.0077	/	Pass
				-30	3.91	-4.240	-0.0059	/	Pass
				-20	3.91	-1.566	-0.0022	/	Pass
				-10	3.91	-0.485	-0.0007	/	Pass
				0	3.91	1.784	0.0025	/	Pass
				10	3.91	0.188	0.0003	/	Pass
30				3.91	1.064	0.0015	/	Pass	
40				3.91	-0.355	-0.0005	/	Pass	
50	3.91	0.227	0.0003	/	Pass				
16QAM	699.7	6	0	20	3.5	-0.421	-0.0006	/	Pass
					3.91	0.684	0.0010	/	Pass
					4.35	-0.330	-0.0005	/	Pass
				-30	3.91	-0.196	-0.0003	/	Pass
				-20	3.91	2.300	0.0033	/	Pass



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64QAM	707.5	6	0	-10	3.91	-0.580	-0.0008	/	Pass				
				0	3.91	0.517	0.0007	/	Pass				
				10	3.91	-1.389	-0.0020	/	Pass				
				30	3.91	0.099	0.0001	/	Pass				
				40	3.91	1.826	0.0026	/	Pass				
				50	3.91	-1.777	-0.0025	/	Pass				
	715.3	6	0	20	3.5	0.117	0.0002	/	Pass				
					3.91	0.831	0.0012	/	Pass				
					4.35	-0.594	-0.0008	/	Pass				
				-30	3.91	0.821	0.0012	/	Pass				
					-20	3.91	-0.529	-0.0007	/	Pass			
					-10	3.91	1.842	0.0026	/	Pass			
				699.7	6	0	20	3.5	-0.142	-0.0002	/	Pass	
								3.91	0.074	0.0001	/	Pass	
								4.35	0.485	0.0007	/	Pass	
							-30	3.91	-0.814	-0.0012	/	Pass	
								-20	3.91	-0.262	-0.0004	/	Pass
								-10	3.91	-0.005	0.0000	/	Pass
	707.5	6	0				20	3.5	0.353	0.0005	/	Pass	
								3.91	-0.203	-0.0003	/	Pass	
				4.35	0.662	0.0009		/	Pass				
				-30	3.91	-0.288	-0.0004	/	Pass				
					-20	3.91	-0.550	-0.0008	/	Pass			
					-10	3.91	-0.222	-0.0003	/	Pass			
				707.5	6	0	0	3.91	1.720	0.0024	/	Pass	
								10	3.91	0.404	0.0006	/	Pass
								30	3.91	0.489	0.0007	/	Pass
								40	3.91	1.055	0.0015	/	Pass
707.5	6	0	50	3.91	-0.107	-0.0002	/	Pass					
				3.91	1.896	0.0027	/	Pass					



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715.3	6	0	20	3.5	0.216	0.0003	/	Pass
				3.91	-0.380	-0.0005	/	Pass
				4.35	0.737	0.0010	/	Pass
			-30	3.91	0.450	0.0006	/	Pass
			-20	3.91	0.477	0.0007	/	Pass
			-10	3.91	-0.192	-0.0003	/	Pass
			0	3.91	0.594	0.0008	/	Pass
			10	3.91	0.598	0.0008	/	Pass
			30	3.91	-0.418	-0.0006	/	Pass
			40	3.91	1.186	0.0017	/	Pass
		50	3.91	-0.438	-0.0006	/	Pass	



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2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	700.5	15	0	20	3.5	1.455	0.0021	/	Pass	
					3.91	0.228	0.0003	/	Pass	
					4.35	0.644	0.0009	/	Pass	
				-30	3.91	1.416	0.0020	/	Pass	
					-20	3.91	-0.270	-0.0004	/	Pass
					-10	3.91	0.765	0.0011	/	Pass
				0	3.91	0.302	0.0004	/	Pass	
					10	3.91	1.636	0.0023	/	Pass
					30	3.91	1.013	0.0014	/	Pass
	40	3.91	0.460		0.0007	/	Pass			
	50	3.91	1.119		0.0016	/	Pass			
	707.5	15	0	20	3.5	-0.178	-0.0003	/	Pass	
					3.91	0.101	0.0001	/	Pass	
					4.35	1.024	0.0014	/	Pass	
				-30	3.91	0.696	0.0010	/	Pass	
					-20	3.91	1.319	0.0019	/	Pass
					-10	3.91	0.481	0.0007	/	Pass
				0	3.91	0.439	0.0006	/	Pass	
					10	3.91	-0.210	-0.0003	/	Pass
					30	3.91	0.151	0.0002	/	Pass
	40	3.91	0.856		0.0012	/	Pass			
	50	3.91	-0.101		-0.0001	/	Pass			
	714.5	15	0	20	3.5	1.472	0.0021	/	Pass	
					3.91	2.635	0.0037	/	Pass	
					4.35	1.127	0.0016	/	Pass	
				-30	3.91	1.289	0.0018	/	Pass	
					-20	3.91	2.029	0.0028	/	Pass
-10					3.91	1.790	0.0025	/	Pass	
0				3.91	2.412	0.0034	/	Pass		
				10	3.91	1.526	0.0021	/	Pass	
				30	3.91	1.346	0.0019	/	Pass	
	40	3.91	0.867	0.0012	/	Pass				
	50	3.91	0.527	0.0007	/	Pass				
16QAM	700.5	15	0	20	3.5	1.376	0.0020	/	Pass	
					3.91	0.870	0.0012	/	Pass	
					4.35	1.570	0.0022	/	Pass	
				-30	3.91	0.910	0.0013	/	Pass	
					-20	3.91	1.865	0.0027	/	Pass
					-10	3.91	1.068	0.0015	/	Pass
0	3.91	2.577	0.0037	/	Pass					



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64QAM	707.5	15	0	10	3.91	1.610	0.0023	/	Pass			
				30	3.91	1.256	0.0018	/	Pass			
				40	3.91	1.453	0.0021	/	Pass			
				50	3.91	1.256	0.0018	/	Pass			
				20	3.5	-0.463	-0.0007	/	Pass			
					3.91	-0.881	-0.0012	/	Pass			
					4.35	-0.482	-0.0007	/	Pass			
				-30	3.91	-0.121	-0.0002	/	Pass			
				-20	3.91	0.274	0.0004	/	Pass			
				-10	3.91	-0.697	-0.0010	/	Pass			
				0	3.91	-0.995	-0.0014	/	Pass			
				10	3.91	0.075	0.0001	/	Pass			
				30	3.91	0.154	0.0002	/	Pass			
				40	3.91	-0.115	-0.0002	/	Pass			
	50	3.91	-0.433	-0.0006	/	Pass						
	714.5	15	0	20	3.5	0.884	0.0012	/	Pass			
					3.91	0.718	0.0010	/	Pass			
					4.35	0.623	0.0009	/	Pass			
				-30	3.91	1.008	0.0014	/	Pass			
				-20	3.91	0.103	0.0001	/	Pass			
				-10	3.91	1.203	0.0017	/	Pass			
				0	3.91	1.431	0.0020	/	Pass			
				10	3.91	0.010	0.0000	/	Pass			
				30	3.91	-0.638	-0.0009	/	Pass			
				40	3.91	-0.028	0.0000	/	Pass			
				50	3.91	1.325	0.0019	/	Pass			
				700.5	15	0	20	3.5	0.785	0.0011	/	Pass
								3.91	0.329	0.0005	/	Pass
4.35								1.700	0.0024	/	Pass	
-30	3.91	1.007	0.0014				/	Pass				
-20	3.91	0.374	0.0005				/	Pass				
-10	3.91	1.099	0.0016				/	Pass				
0	3.91	1.131	0.0016				/	Pass				
10	3.91	1.118	0.0016				/	Pass				
30	3.91	0.647	0.0009				/	Pass				
40	3.91	0.514	0.0007				/	Pass				
50	3.91	-0.273	-0.0004				/	Pass				
707.5	15	0	20				3.5	-0.973	-0.0014	/	Pass	
							3.91	-0.604	-0.0009	/	Pass	
							4.35	0.277	0.0004	/	Pass	
			-30	3.91	0.591	0.0008	/	Pass				
			-20	3.91	1.130	0.0016	/	Pass				
			-10	3.91	0.855	0.0012	/	Pass				
			0	3.91	-0.233	-0.0003	/	Pass				
			10	3.91	0.710	0.0010	/	Pass				
			30	3.91	0.399	0.0006	/	Pass				
			40	3.91	0.829	0.0012	/	Pass				
			50	3.91	-0.022	0.0000	/	Pass				
			714.5	15	0	20	3.5	1.195	0.0017	/	Pass	
							3.91	0.306	0.0004	/	Pass	



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				4.35	0.472	0.0007	/	Pass
				-30	3.91	0.769	0.0011	Pass
				-20	3.91	-0.121	-0.0002	Pass
				-10	3.91	0.896	0.0013	Pass
				0	3.91	0.380	0.0005	Pass
				10	3.91	0.519	0.0007	Pass
				30	3.91	0.010	0.0000	Pass
				40	3.91	-0.074	-0.0001	Pass
				50	3.91	-0.794	-0.0011	Pass



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2.3 B12_5MHz

2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	701.5	25	0	20	3.5	-1.099	-0.0016	/	Pass	
					3.91	-0.234	-0.0003	/	Pass	
					4.35	0.293	0.0004	/	Pass	
				-30	3.91	-0.410	-0.0006	/	Pass	
					-20	3.91	-1.026	-0.0015	/	Pass
						-10	3.91	-0.463	-0.0007	/
				0	3.91	0.365	0.0005	/	Pass	
					10	3.91	-0.457	-0.0007	/	Pass
				30	3.91	0.645	0.0009	/	Pass	
	40	3.91	0.179	0.0003	/	Pass				
	50	3.91	-0.374	-0.0005	/	Pass				
	707.5	25	0	20	3.5	-0.357	-0.0005	/	Pass	
					3.91	-0.945	-0.0013	/	Pass	
					4.35	1.286	0.0018	/	Pass	
				-30	3.91	0.869	0.0012	/	Pass	
					-20	3.91	-0.062	-0.0001	/	Pass
						-10	3.91	0.167	0.0002	/
				0	3.91	0.144	0.0002	/	Pass	
					10	3.91	-0.399	-0.0006	/	Pass
				30	3.91	-1.045	-0.0015	/	Pass	
	40	3.91	-1.023	-0.0014	/	Pass				
	50	3.91	-0.278	-0.0004	/	Pass				
	713.5	25	0	20	3.5	2.424	0.0034	/	Pass	
					3.91	2.836	0.0040	/	Pass	
					4.35	2.132	0.0030	/	Pass	
				-30	3.91	1.265	0.0018	/	Pass	
					-20	3.91	0.961	0.0013	/	Pass
-10						3.91	0.370	0.0005	/	Pass
0				3.91	0.638	0.0009	/	Pass		
				10	3.91	1.408	0.0020	/	Pass	
30				3.91	1.271	0.0018	/	Pass		
40	3.91	0.183	0.0003	/	Pass					
50	3.91	0.935	0.0013	/	Pass					
16QAM	701.5	25	0	20	3.5	0.723	0.0010	/	Pass	
					3.91	0.107	0.0002	/	Pass	
					4.35	-0.724	-0.0010	/	Pass	
				-30	3.91	1.073	0.0015	/	Pass	
					-20	3.91	0.800	0.0011	/	Pass
				-10	3.91	0.690	0.0010	/	Pass	
0	3.91	0.537	0.0008	/	Pass					



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64QAM	707.5	25	0	10	3.91	0.590	0.0008	/	Pass			
				30	3.91	1.428	0.0020	/	Pass			
				40	3.91	0.950	0.0014	/	Pass			
				50	3.91	1.374	0.0020	/	Pass			
				20	3.5	0.450	0.0006	/	Pass			
					3.91	-0.916	-0.0013	/	Pass			
					4.35	-0.293	-0.0004	/	Pass			
				-30	3.91	-0.500	-0.0007	/	Pass			
				-20	3.91	-1.159	-0.0016	/	Pass			
				-10	3.91	-0.557	-0.0008	/	Pass			
				0	3.91	0.189	0.0003	/	Pass			
				10	3.91	-0.370	-0.0005	/	Pass			
				30	3.91	-1.508	-0.0021	/	Pass			
				40	3.91	-0.380	-0.0005	/	Pass			
	50	3.91	-0.347	-0.0005	/	Pass						
	713.5	25	0	20	3.5	-0.596	-0.0008	/	Pass			
					3.91	0.159	0.0002	/	Pass			
					4.35	-0.017	0.0000	/	Pass			
				-30	3.91	0.596	0.0008	/	Pass			
				-20	3.91	0.684	0.0010	/	Pass			
				-10	3.91	-0.681	-0.0010	/	Pass			
				0	3.91	0.276	0.0004	/	Pass			
				10	3.91	-0.103	-0.0001	/	Pass			
				30	3.91	-0.376	-0.0005	/	Pass			
				40	3.91	-0.363	-0.0005	/	Pass			
				50	3.91	-0.136	-0.0002	/	Pass			
				701.5	25	0	20	3.5	0.586	0.0008	/	Pass
								3.91	1.610	0.0023	/	Pass
4.35								1.734	0.0025	/	Pass	
-30	3.91	1.870	0.0027				/	Pass				
-20	3.91	2.300	0.0033				/	Pass				
-10	3.91	2.565	0.0037				/	Pass				
0	3.91	2.783	0.0040				/	Pass				
10	3.91	2.602	0.0037				/	Pass				
30	3.91	2.090	0.0030				/	Pass				
40	3.91	1.573	0.0022				/	Pass				
50	3.91	1.343	0.0019				/	Pass				
707.5	25	0	20				3.5	-0.141	-0.0002	/	Pass	
							3.91	-0.532	-0.0008	/	Pass	
							4.35	-0.110	-0.0002	/	Pass	
			-30	3.91	0.377	0.0005	/	Pass				
			-20	3.91	0.445	0.0006	/	Pass				
			-10	3.91	-0.329	-0.0005	/	Pass				
			0	3.91	-0.473	-0.0007	/	Pass				
			10	3.91	-0.718	-0.0010	/	Pass				
			30	3.91	-0.409	-0.0006	/	Pass				
			40	3.91	0.376	0.0005	/	Pass				
			50	3.91	-0.376	-0.0005	/	Pass				
			713.5	25	0	20	3.5	-0.351	-0.0005	/	Pass	
							3.91	-0.443	-0.0006	/	Pass	



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				4.35	0.265	0.0004	/	Pass	
				-30	3.91	-0.276	-0.0004	/	Pass
				-20	3.91	0.331	0.0005	/	Pass
				-10	3.91	0.154	0.0002	/	Pass
				0	3.91	-0.297	-0.0004	/	Pass
				10	3.91	-0.133	-0.0002	/	Pass
				30	3.91	-0.651	-0.0009	/	Pass
				40	3.91	-0.124	-0.0002	/	Pass
				50	3.91	-1.387	-0.0019	/	Pass



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2.4 B12_10MHz

2.4.1 Test Result

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	3.5	-0.489	-0.0007	/	Pass	
					3.91	-0.141	-0.0002	/	Pass	
					4.35	0.270	0.0004	/	Pass	
				-30	3.91	0.070	0.0001	/	Pass	
					-20	3.91	0.229	0.0003	/	Pass
					-10	3.91	0.350	0.0005	/	Pass
				0	3.91	-0.436	-0.0006	/	Pass	
					10	3.91	0.177	0.0003	/	Pass
					30	3.91	0.651	0.0009	/	Pass
	707.5	50	0	20	3.5	-0.411	-0.0006	/	Pass	
					3.91	0.265	0.0004	/	Pass	
					4.35	-0.395	-0.0006	/	Pass	
				-30	3.91	-0.964	-0.0014	/	Pass	
					-20	3.91	-0.064	-0.0001	/	Pass
					-10	3.91	-0.881	-0.0012	/	Pass
				0	3.91	0.234	0.0003	/	Pass	
					10	3.91	0.740	0.0010	/	Pass
					30	3.91	0.144	0.0002	/	Pass
	711	50	0	20	3.5	-0.158	-0.0002	/	Pass	
					3.91	0.729	0.0010	/	Pass	
					4.35	0.177	0.0002	/	Pass	
				-30	3.91	0.363	0.0005	/	Pass	
					-20	3.91	0.782	0.0011	/	Pass
					-10	3.91	-0.278	-0.0004	/	Pass
				0	3.91	-0.619	-0.0009	/	Pass	
					10	3.91	0.076	0.0001	/	Pass
					30	3.91	-0.160	-0.0002	/	Pass
16QAM	704	50	0	20	3.5	0.919	0.0013	/	Pass	
					3.91	0.444	0.0006	/	Pass	
					4.35	0.814	0.0012	/	Pass	
				-30	3.91	0.028	0.0000	/	Pass	
					-20	3.91	-0.594	-0.0008	/	Pass
					-10	3.91	0.683	0.0010	/	Pass
				0	3.91	0.243	0.0003	/	Pass	



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64QAM	707.5	50	0	10	3.91	0.990	0.0014	/	Pass			
				30	3.91	0.049	0.0001	/	Pass			
				40	3.91	-0.107	-0.0002	/	Pass			
				50	3.91	-0.006	0.0000	/	Pass			
				20	3.5	-1.093	-0.0015	/	Pass			
					3.91	-0.245	-0.0003	/	Pass			
					4.35	-0.613	-0.0009	/	Pass			
				-30	3.91	-0.355	-0.0005	/	Pass			
				-20	3.91	-0.712	-0.0010	/	Pass			
				-10	3.91	0.804	0.0011	/	Pass			
				0	3.91	0.000	0.0000	/	Pass			
				10	3.91	-0.784	-0.0011	/	Pass			
				30	3.91	-0.685	-0.0010	/	Pass			
				40	3.91	-0.411	-0.0006	/	Pass			
	50	3.91	-0.279	-0.0004	/	Pass						
	711	50	0	20	3.5	0.847	0.0012	/	Pass			
					3.91	-0.466	-0.0007	/	Pass			
					4.35	-0.889	-0.0013	/	Pass			
				-30	3.91	0.591	0.0008	/	Pass			
				-20	3.91	-0.321	-0.0005	/	Pass			
				-10	3.91	-0.500	-0.0007	/	Pass			
				0	3.91	-0.404	-0.0006	/	Pass			
				10	3.91	-0.137	-0.0002	/	Pass			
				30	3.91	-0.268	-0.0004	/	Pass			
				40	3.91	0.426	0.0006	/	Pass			
				50	3.91	1.171	0.0016	/	Pass			
				704	50	0	20	3.5	-0.123	-0.0002	/	Pass
								3.91	-0.195	-0.0003	/	Pass
4.35								0.744	0.0011	/	Pass	
-30	3.91	-0.554	-0.0008				/	Pass				
-20	3.91	0.480	0.0007				/	Pass				
-10	3.91	-0.362	-0.0005				/	Pass				
0	3.91	-0.251	-0.0004				/	Pass				
10	3.91	-0.802	-0.0011				/	Pass				
30	3.91	-0.046	-0.0001				/	Pass				
40	3.91	-0.064	-0.0001				/	Pass				
50	3.91	-0.684	-0.0010				/	Pass				
707.5	50	0	20				3.5	-0.076	-0.0001	/	Pass	
							3.91	-0.413	-0.0006	/	Pass	
							4.35	-1.039	-0.0015	/	Pass	
			-30	3.91	0.954	0.0013	/	Pass				
			-20	3.91	-0.479	-0.0007	/	Pass				
			-10	3.91	-0.254	-0.0004	/	Pass				
			0	3.91	0.939	0.0013	/	Pass				
			10	3.91	-0.084	-0.0001	/	Pass				
			30	3.91	0.028	0.0000	/	Pass				
			40	3.91	-0.244	-0.0003	/	Pass				
			50	3.91	-0.810	-0.0011	/	Pass				
			711	50	0	20	3.5	0.703	0.0010	/	Pass	
							3.91	1.283	0.0018	/	Pass	



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Report No.: SEWM2311000454RG01

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				4.35	0.471	0.0007	/	Pass	
				-30	3.91	-0.959	-0.0013	/	Pass
				-20	3.91	-0.202	-0.0003	/	Pass
				-10	3.91	-0.456	-0.0006	/	Pass
				0	3.91	-0.192	-0.0003	/	Pass
				10	3.91	0.548	0.0008	/	Pass
				30	3.91	-0.140	-0.0002	/	Pass
				40	3.91	-0.338	-0.0005	/	Pass
				50	3.91	0.432	0.0006	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band12_OBW

3.1.1 Test Result

Band: 12 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.125	/	Pass
		707.5	6	0	1.118	/	Pass
		715.3	6	0	1.130	/	Pass
	16QAM	699.7	6	0	1.123	/	Pass
		707.5	6	0	1.126	/	Pass
		715.3	6	0	1.139	/	Pass
	64QAM	699.7	6	0	1.123	/	Pass
		707.5	6	0	1.117	/	Pass
		715.3	6	0	1.125	/	Pass
3	QPSK	700.5	15	0	2.746	/	Pass
		707.5	15	0	2.742	/	Pass
		714.5	15	0	2.751	/	Pass
	16QAM	700.5	15	0	2.766	/	Pass
		707.5	15	0	2.740	/	Pass
		714.5	15	0	2.756	/	Pass
	64QAM	700.5	15	0	2.758	/	Pass
		707.5	15	0	2.749	/	Pass
		714.5	15	0	2.747	/	Pass
5	QPSK	701.5	25	0	4.585	/	Pass
		707.5	25	0	4.586	/	Pass
		713.5	25	0	4.575	/	Pass
	16QAM	701.5	25	0	4.581	/	Pass
		707.5	25	0	4.593	/	Pass
		713.5	25	0	4.563	/	Pass
	64QAM	701.5	25	0	4.575	/	Pass
		707.5	25	0	4.592	/	Pass
		713.5	25	0	4.582	/	Pass
10	QPSK	704	50	0	9.082	/	Pass
		707.5	50	0	9.085	/	Pass
		711	50	0	9.036	/	Pass
	16QAM	704	50	0	9.084	/	Pass
		707.5	50	0	9.102	/	Pass
		711	50	0	9.045	/	Pass
	64QAM	704	50	0	9.054	/	Pass
		707.5	50	0	9.079	/	Pass
		711	50	0	9.049	/	Pass

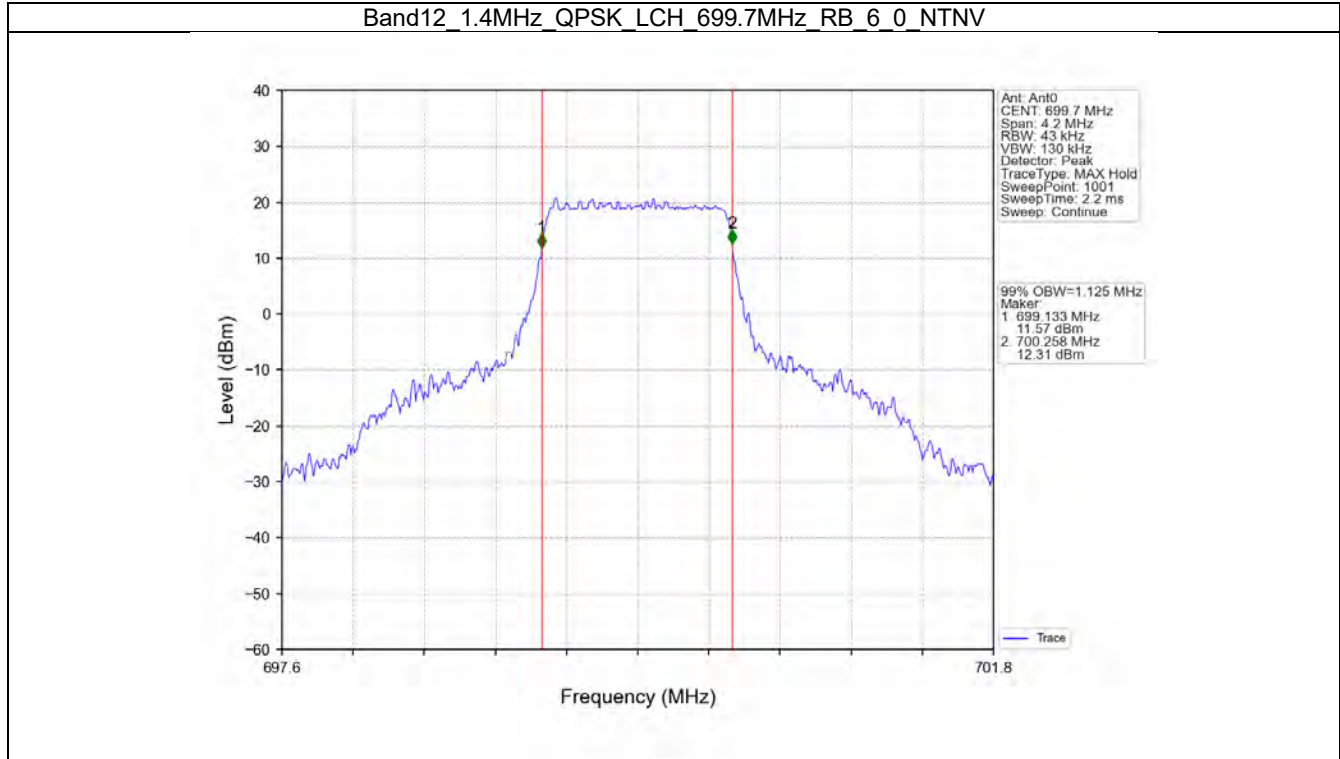


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3.1.2 Test Graph

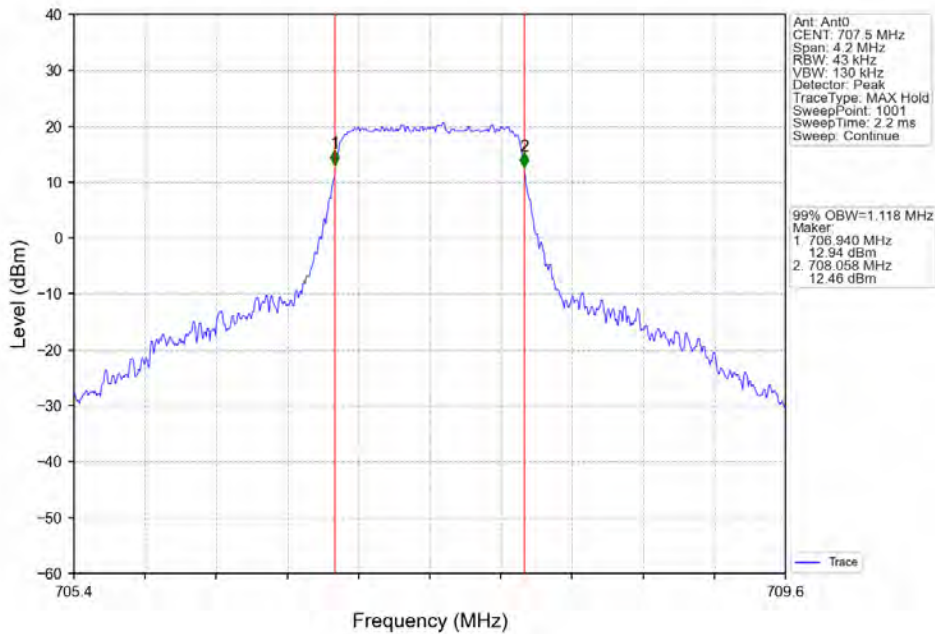


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Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



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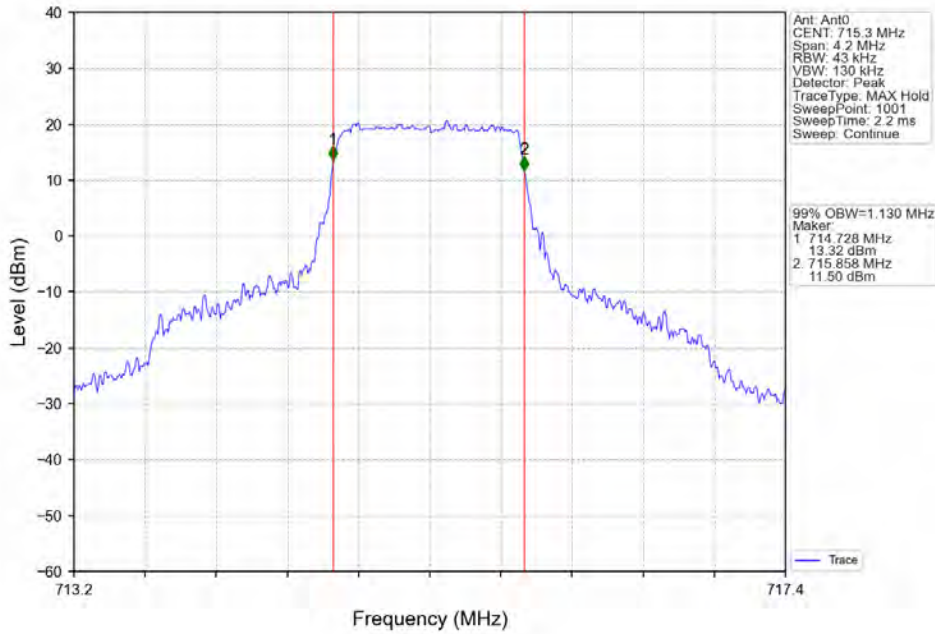
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Report No.: SEWM2311000454RG01

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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



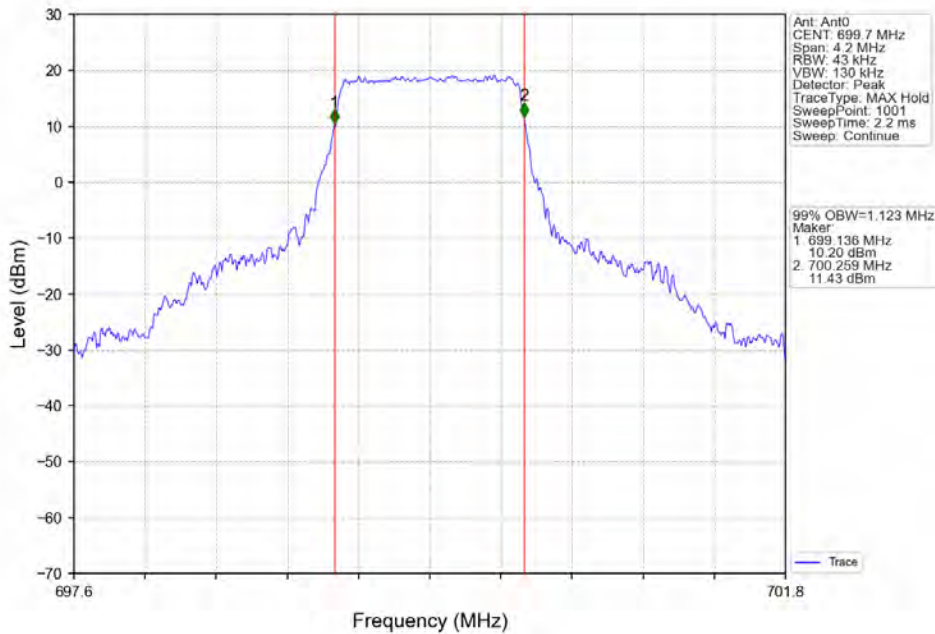
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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

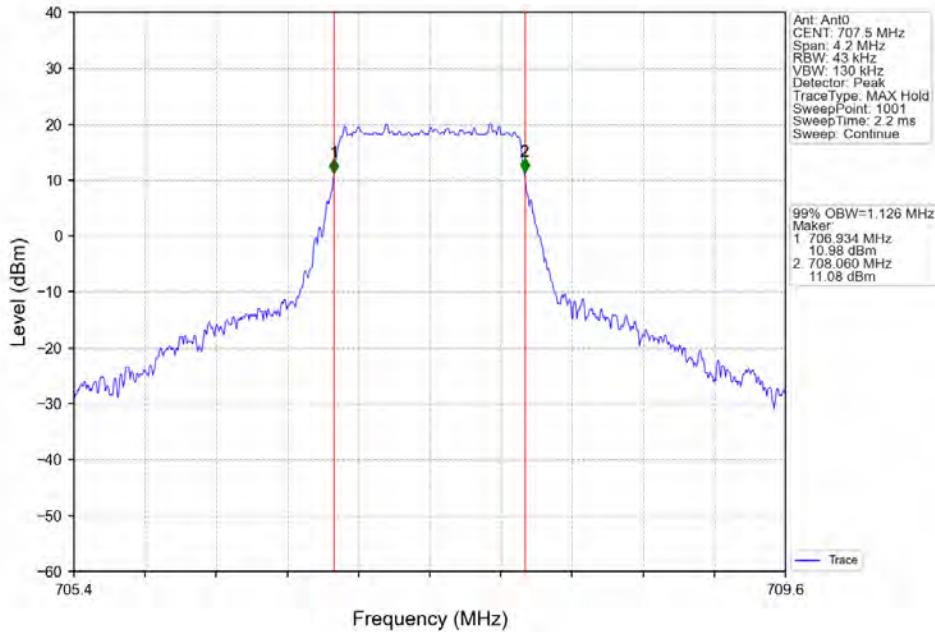


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Band12 1.4MHz 16QAM MCH 707.5MHz_RB_6_0_NTNV

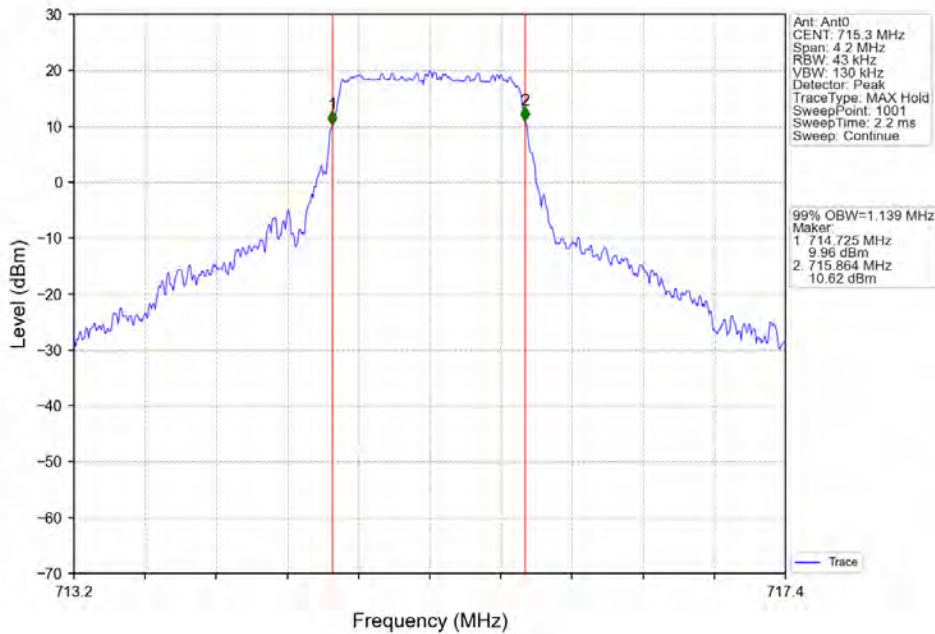


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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_6_0 NTNv

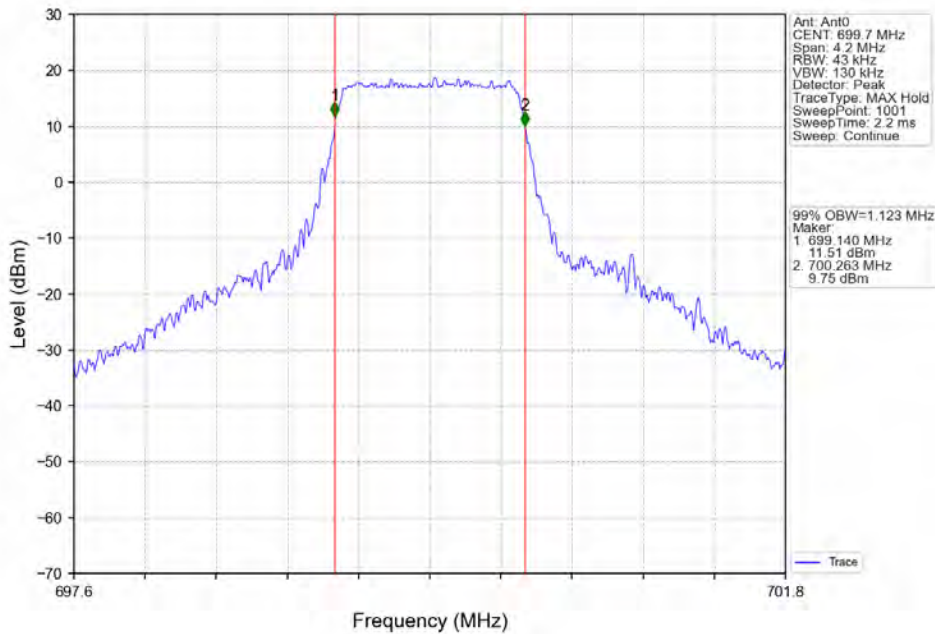


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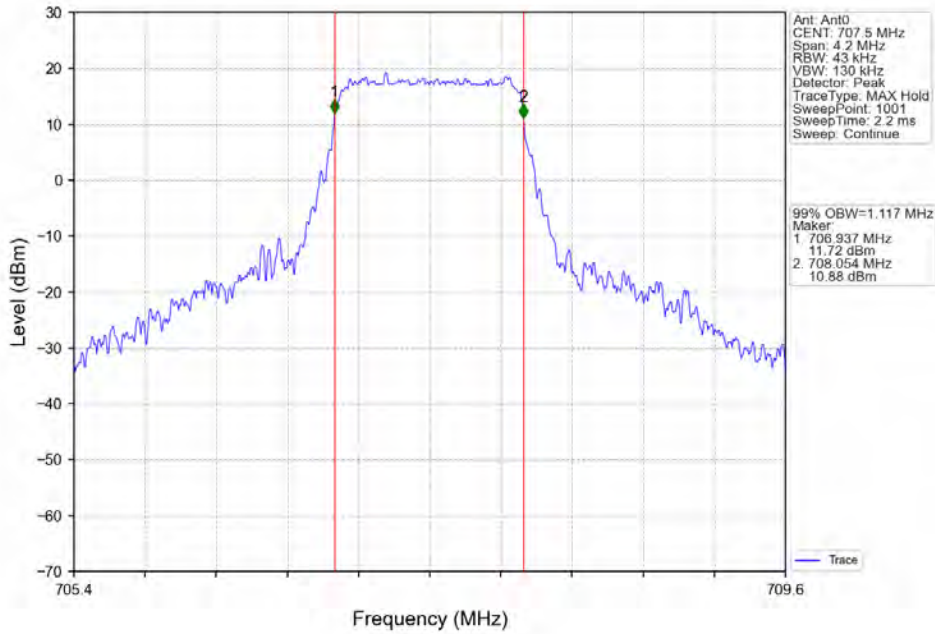


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Band12 1.4MHz 64QAM MCH 707.5MHz_RB_6_0 NTN

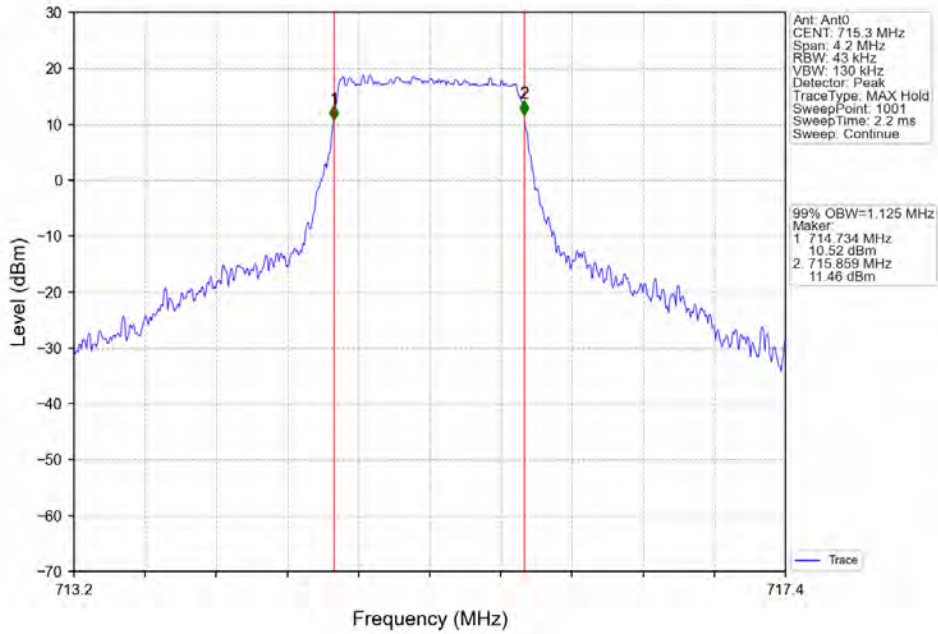


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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_6_0 NTNv



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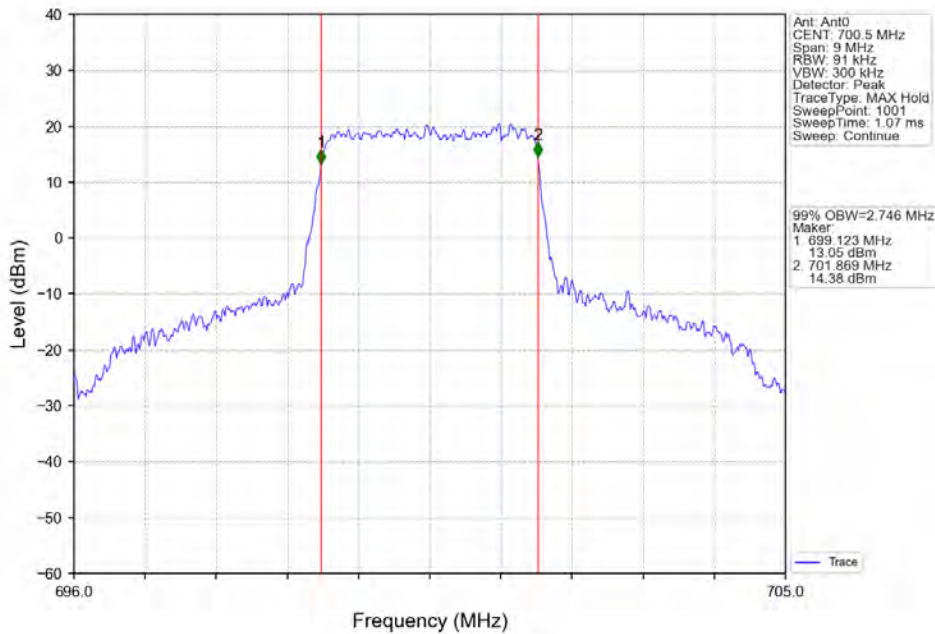
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



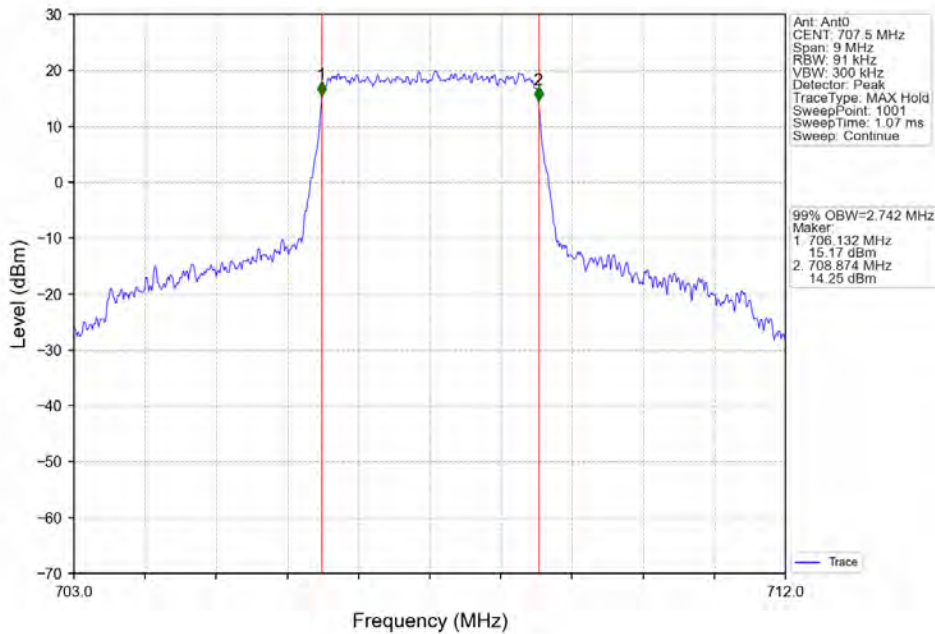
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Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



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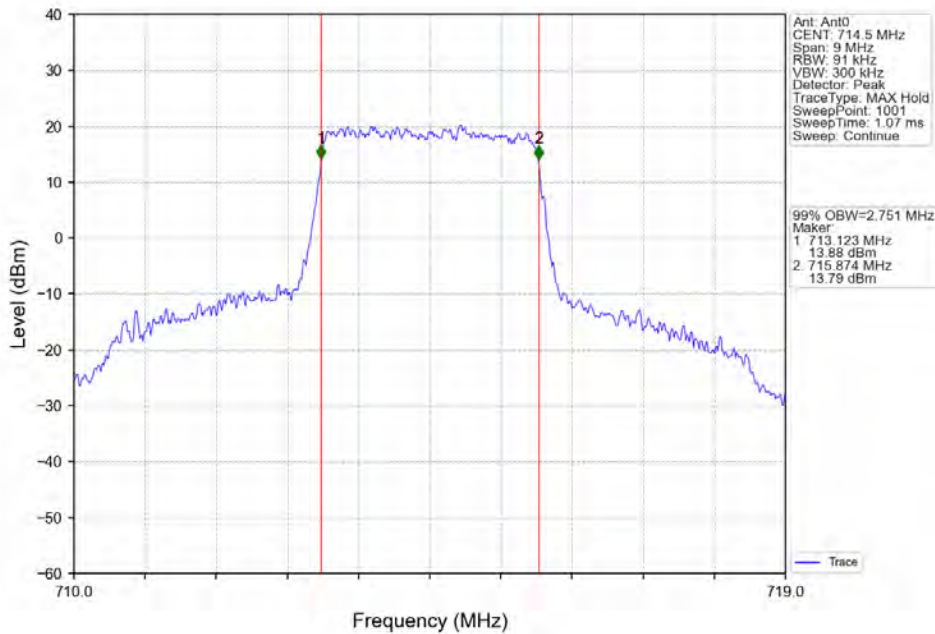
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



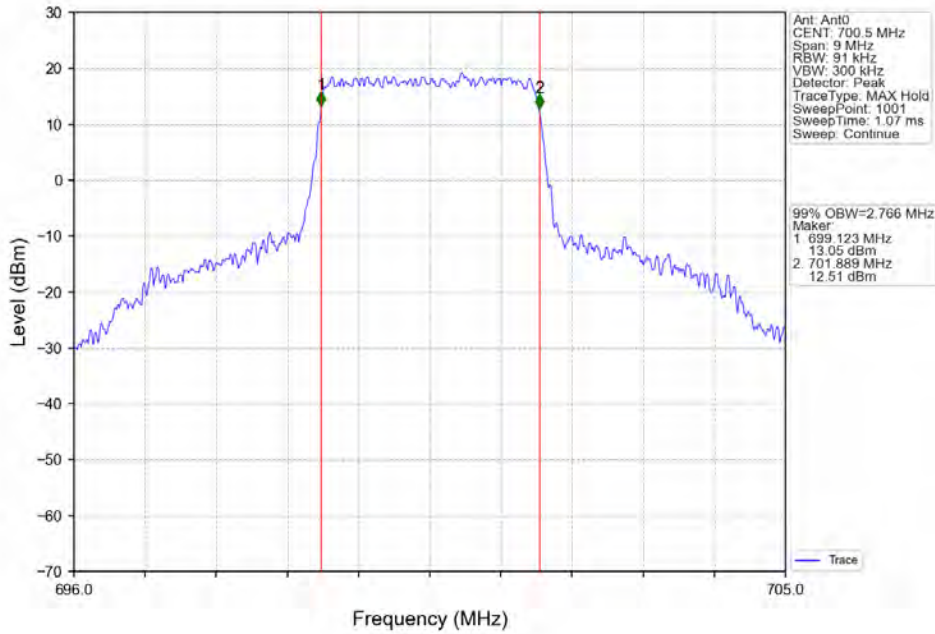
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Band12_3MHz_16QAM LCH 700.5MHz_RB_15_0_NTNV



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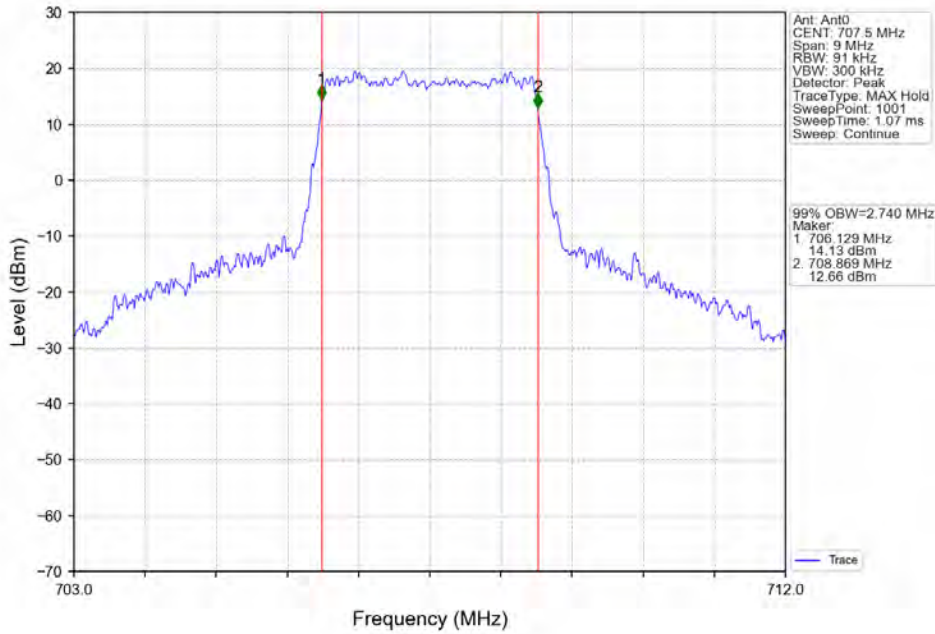
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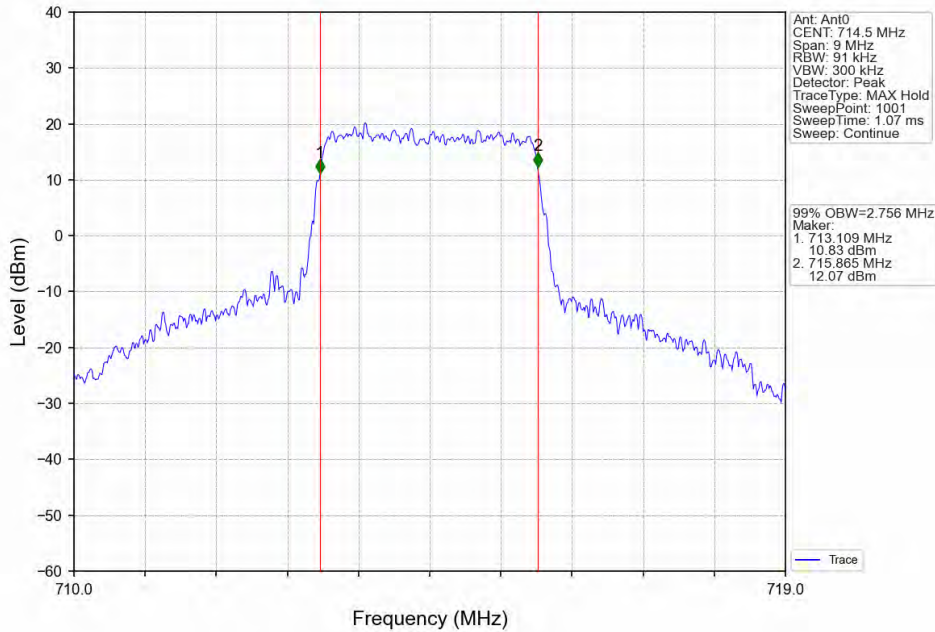
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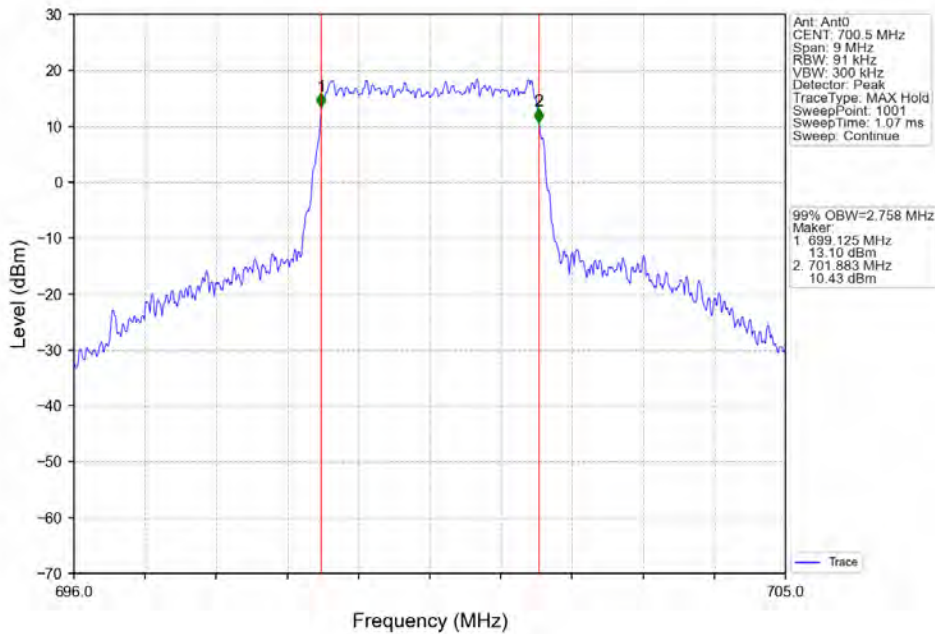


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Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV

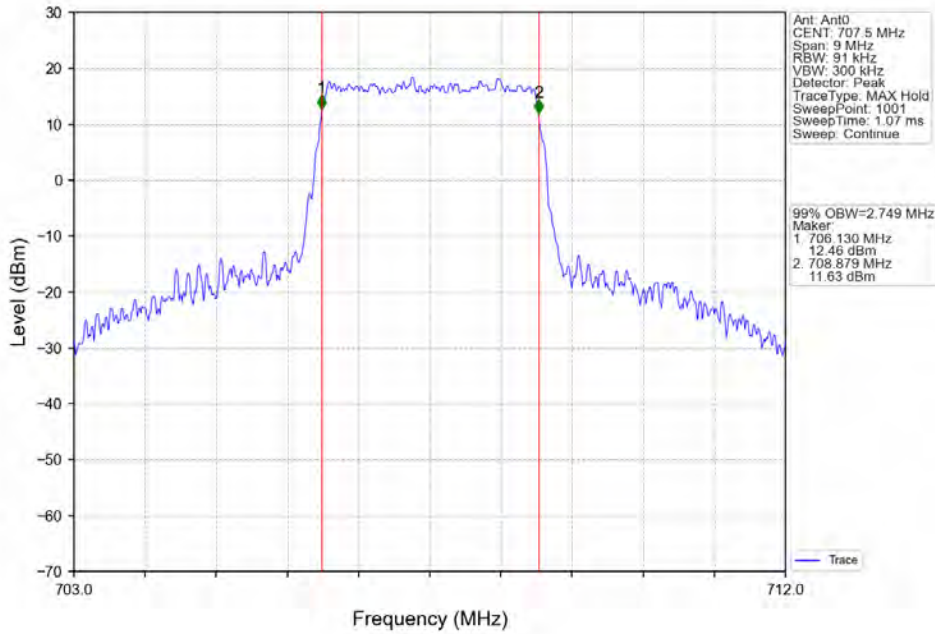


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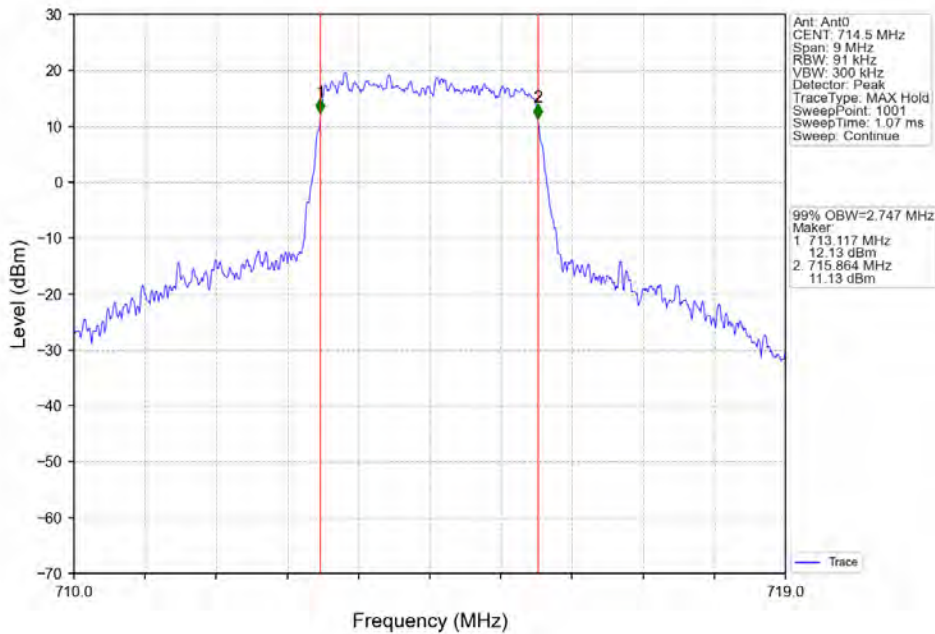


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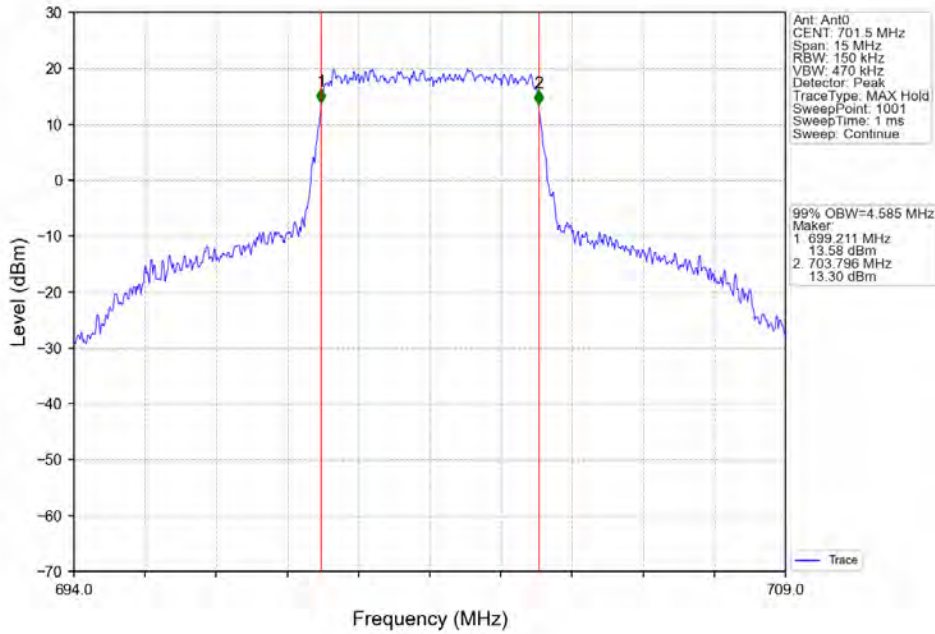


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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



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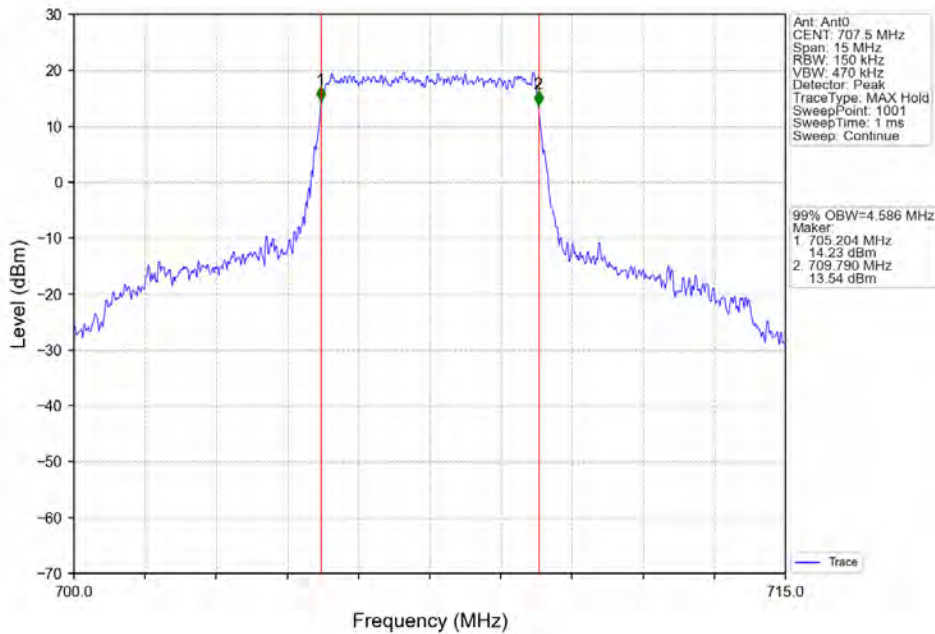
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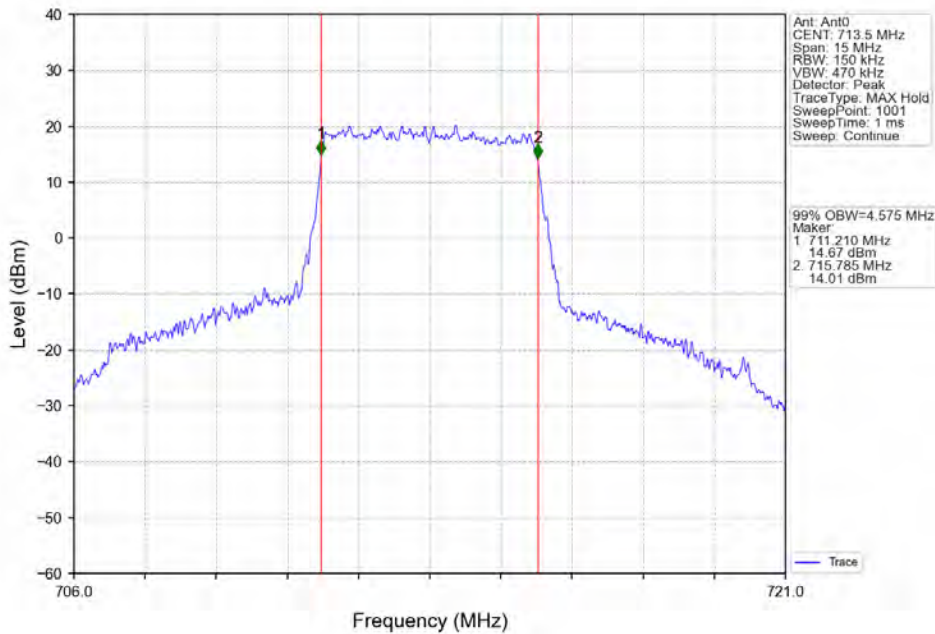
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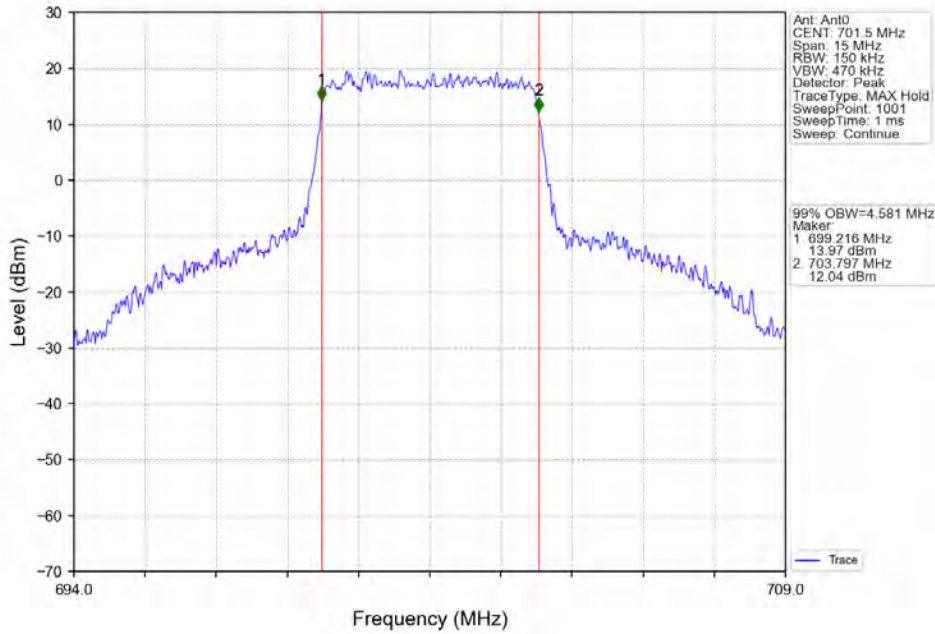


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Band12_5MHz_16QAM LCH 701.5MHz_RB_25_0_NTNV



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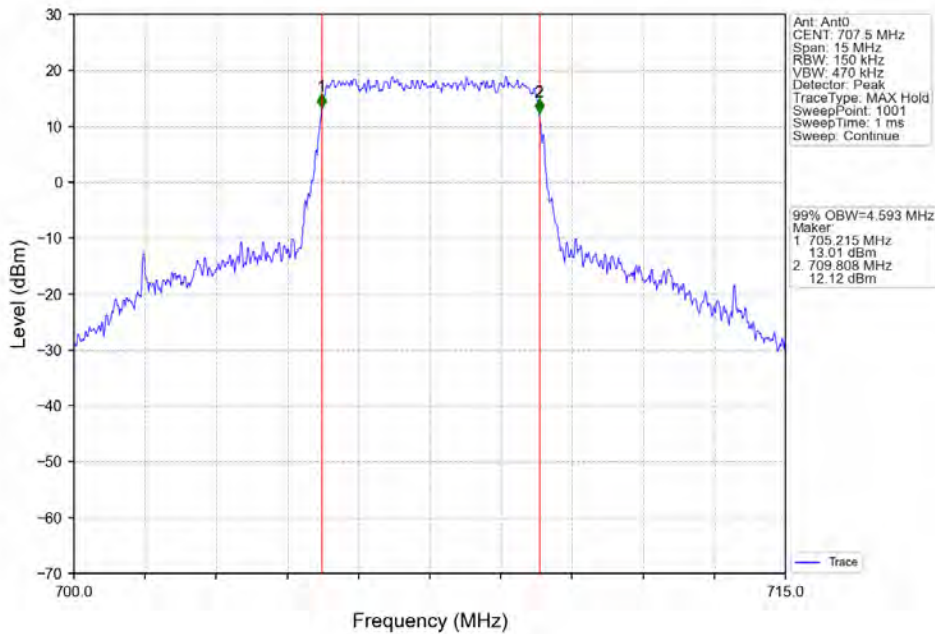
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



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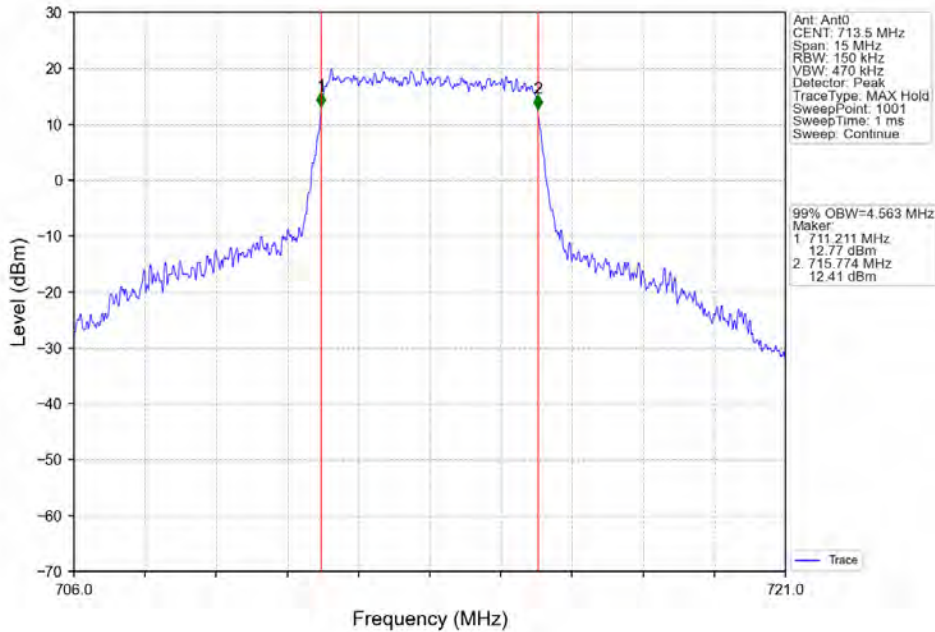
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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

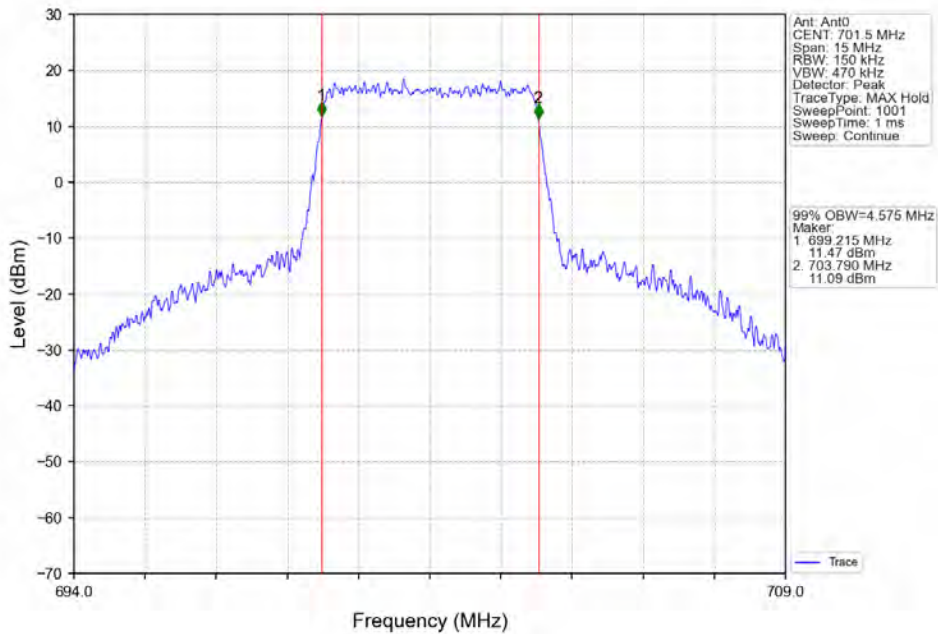


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Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



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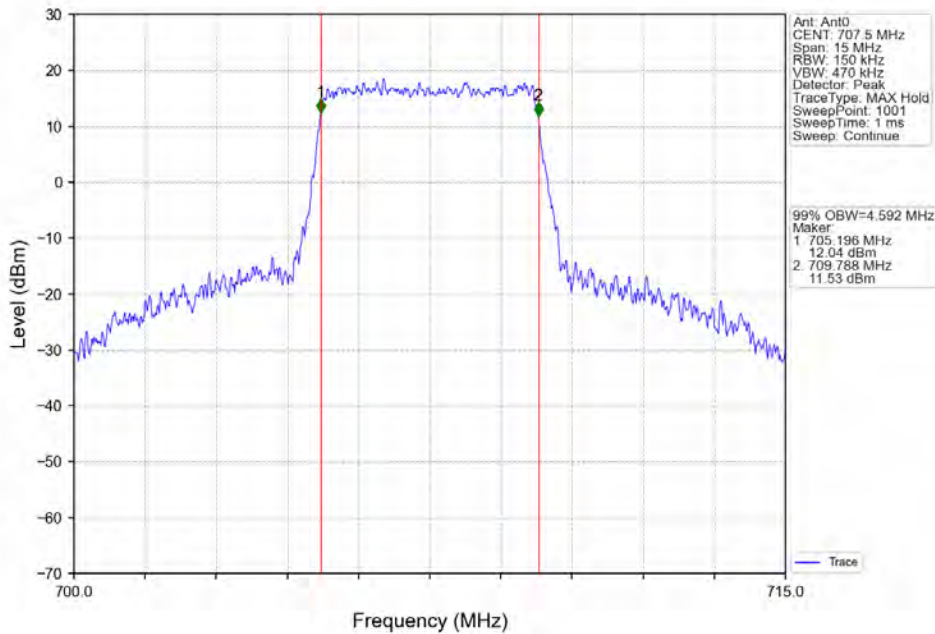
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Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



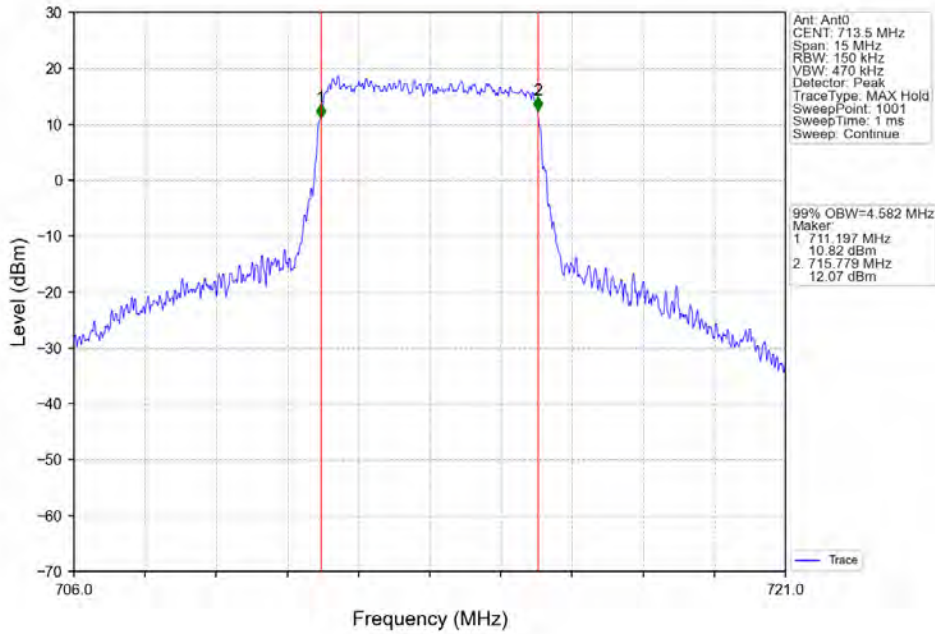
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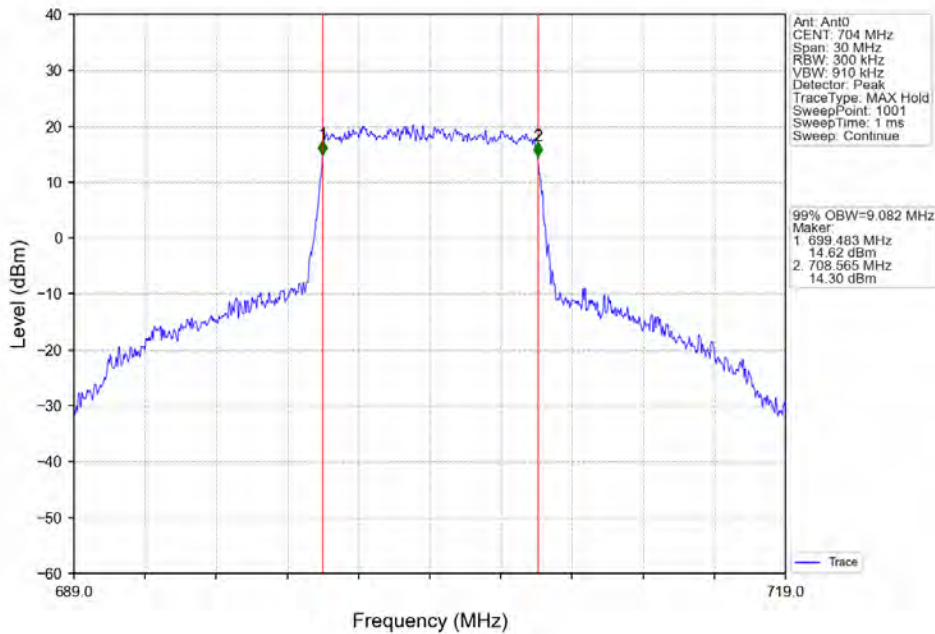


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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

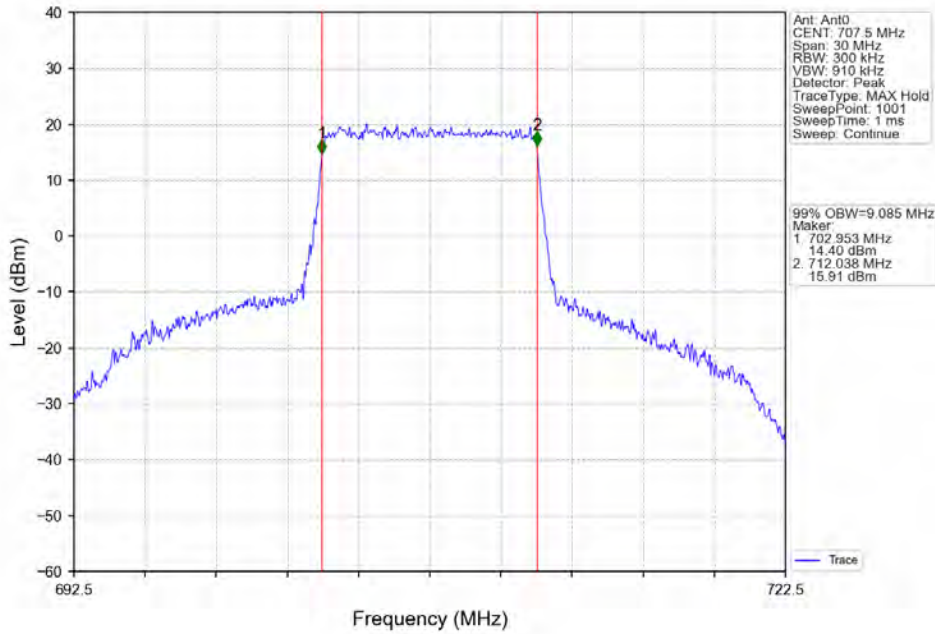


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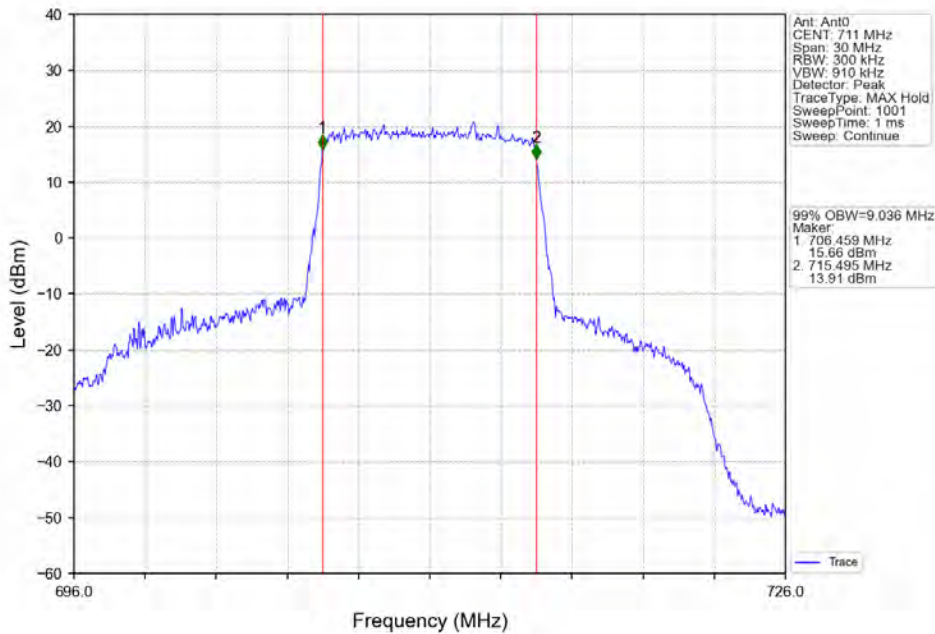
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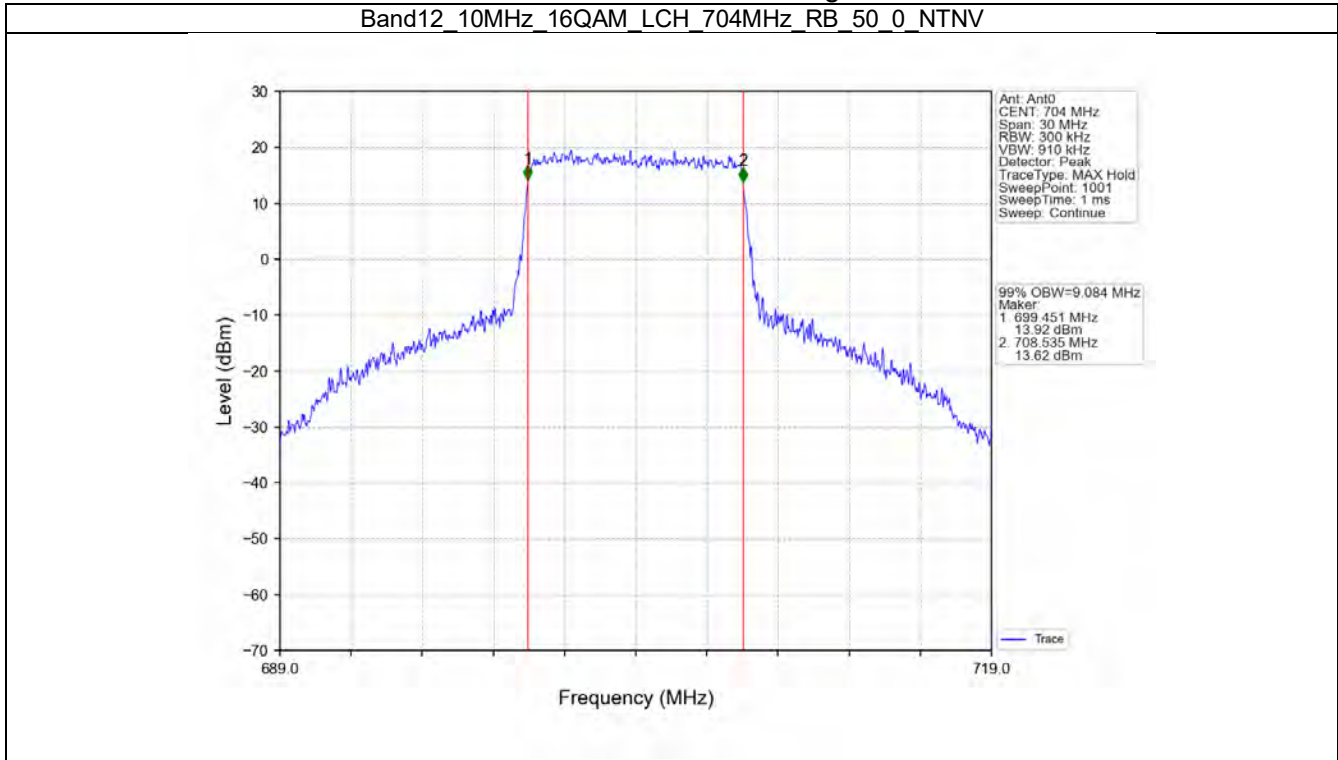
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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



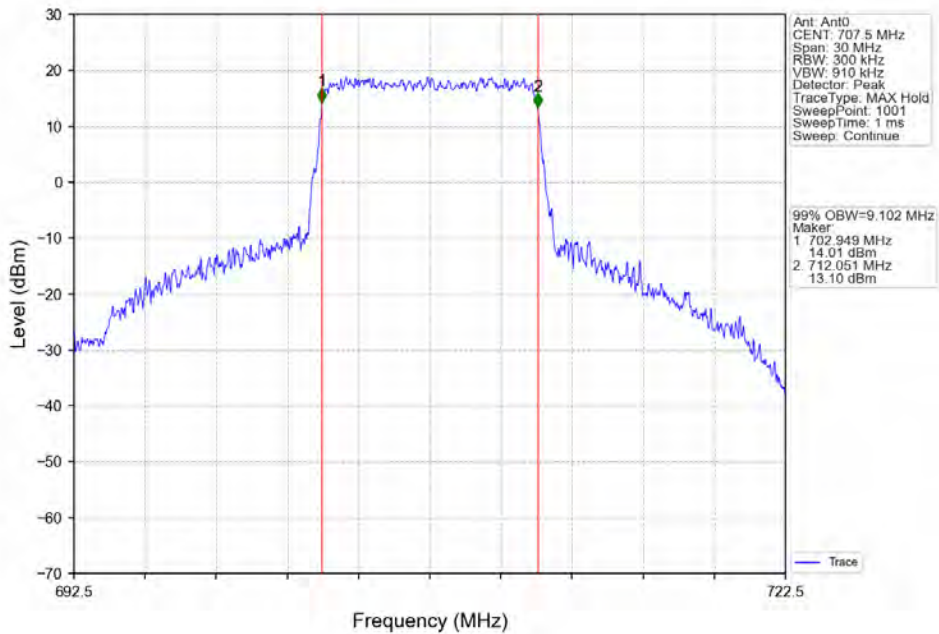
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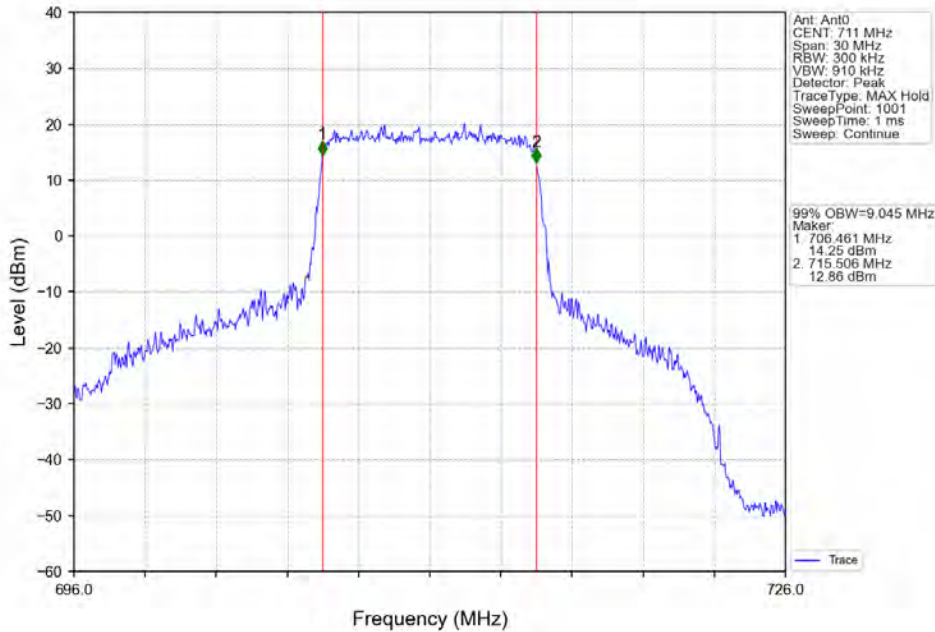


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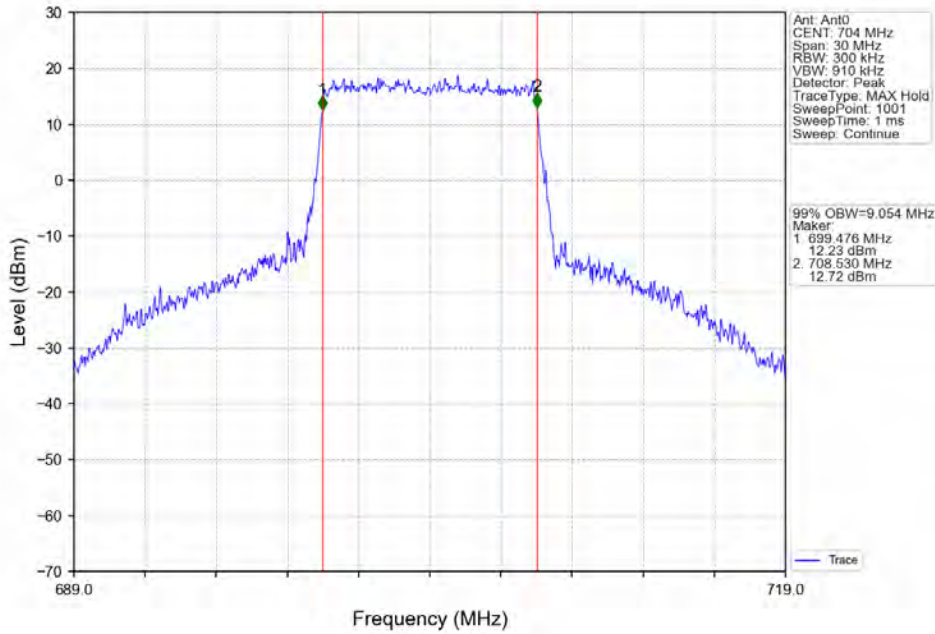


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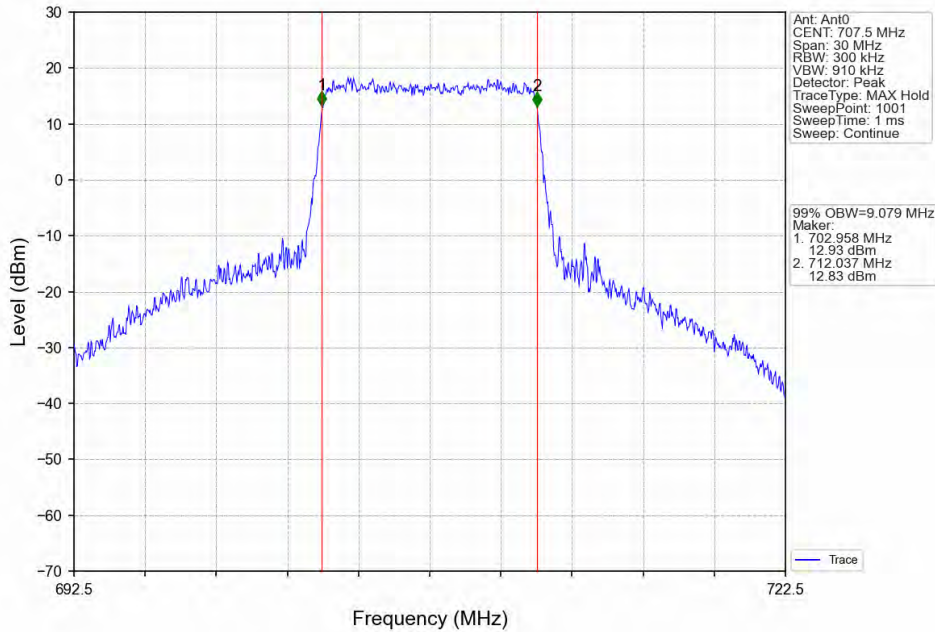


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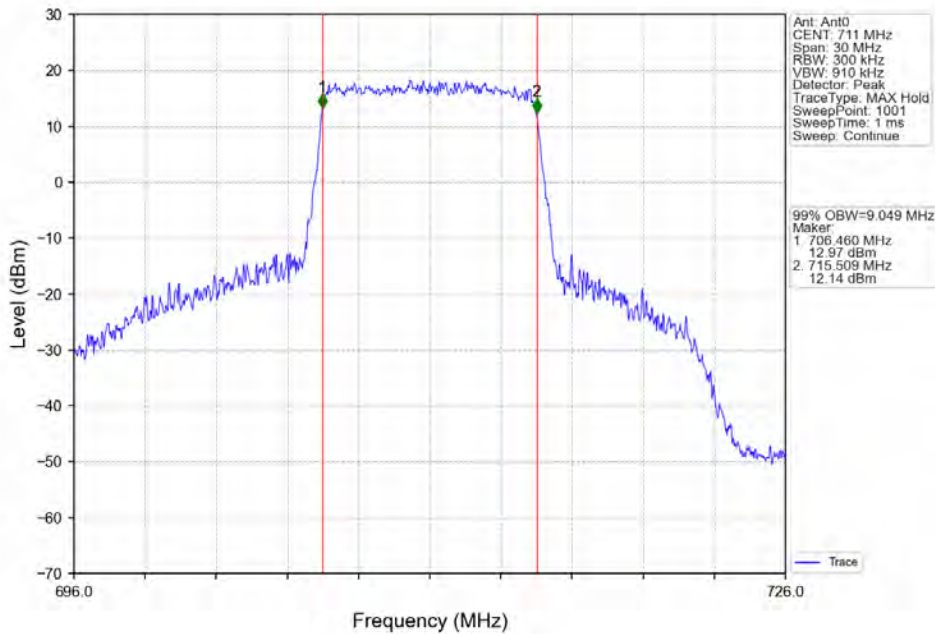


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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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3.2 Band12_XDB

3.2.1 Test Result

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	1.414	/	Pass
		707.5	6	0	1.414	/	Pass
		715.3	6	0	1.443	/	Pass
	16QAM	699.7	6	0	1.441	/	Pass
		707.5	6	0	1.397	/	Pass
		715.3	6	0	1.542	/	Pass
	64QAM	699.7	6	0	1.441	/	Pass
		707.5	6	0	1.405	/	Pass
		715.3	6	0	1.400	/	Pass
3	QPSK	700.5	15	0	3.151	/	Pass
		707.5	15	0	3.146	/	Pass
		714.5	15	0	3.189	/	Pass
	16QAM	700.5	15	0	3.143	/	Pass
		707.5	15	0	3.193	/	Pass
		714.5	15	0	3.157	/	Pass
	64QAM	700.5	15	0	3.137	/	Pass
		707.5	15	0	3.115	/	Pass
		714.5	15	0	3.117	/	Pass
5	QPSK	701.5	25	0	5.279	/	Pass
		707.5	25	0	5.310	/	Pass
		713.5	25	0	5.314	/	Pass
	16QAM	701.5	25	0	5.292	/	Pass
		707.5	25	0	5.292	/	Pass
		713.5	25	0	5.226	/	Pass
	64QAM	701.5	25	0	5.213	/	Pass
		707.5	25	0	5.248	/	Pass
		713.5	25	0	5.228	/	Pass
10	QPSK	704	50	0	10.182	/	Pass
		707.5	50	0	10.273	/	Pass
		711	50	0	10.168	/	Pass
	16QAM	704	50	0	10.294	/	Pass
		707.5	50	0	10.272	/	Pass
		711	50	0	10.106	/	Pass
	64QAM	704	50	0	10.249	/	Pass
		707.5	50	0	10.217	/	Pass
		711	50	0	10.253	/	Pass

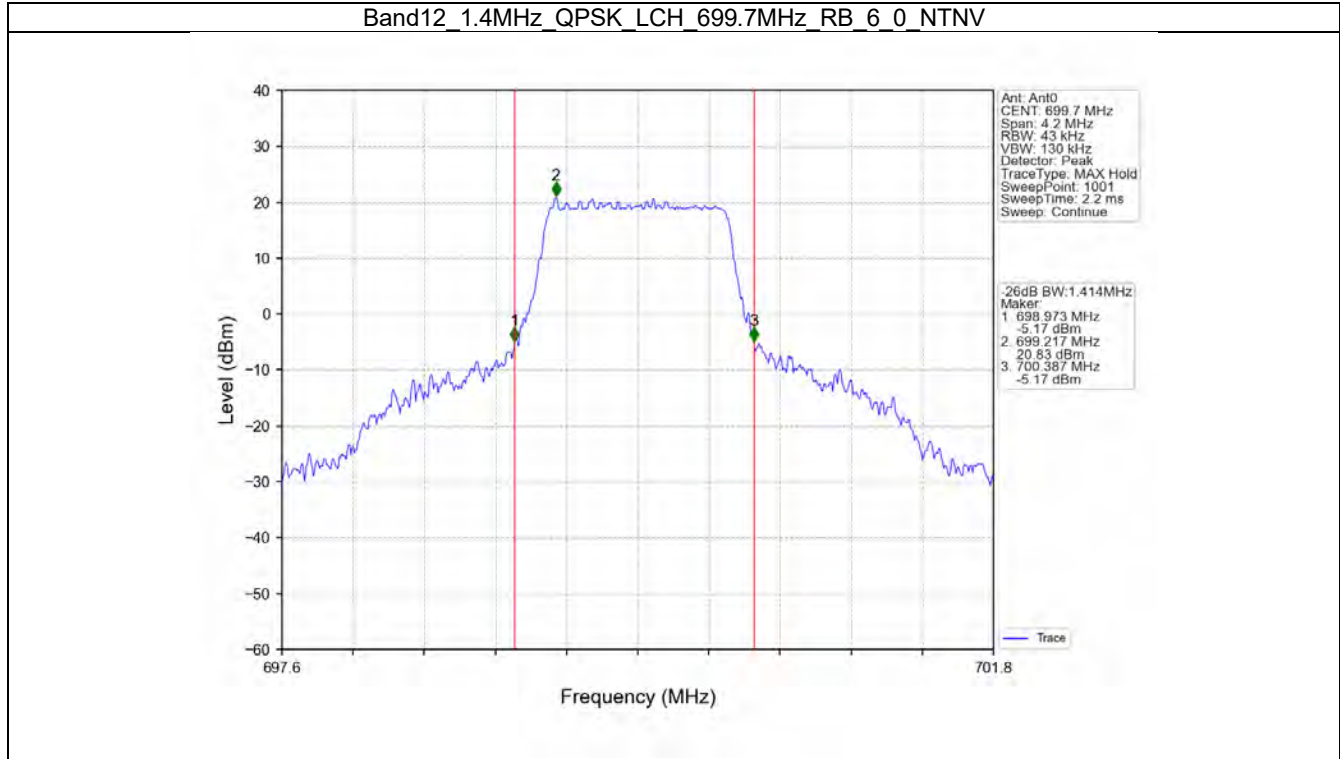


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3.2.2 Test Graph

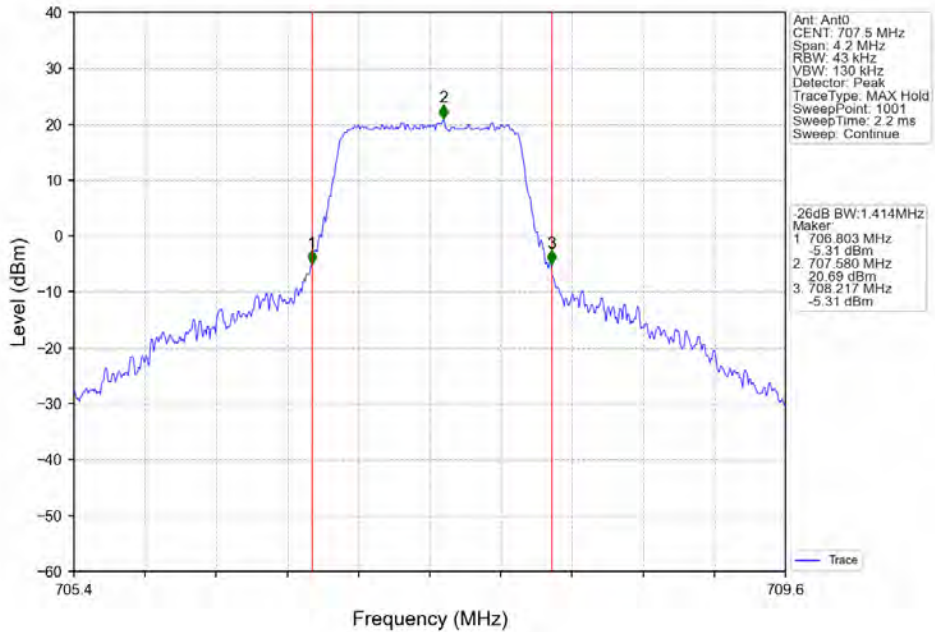


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Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

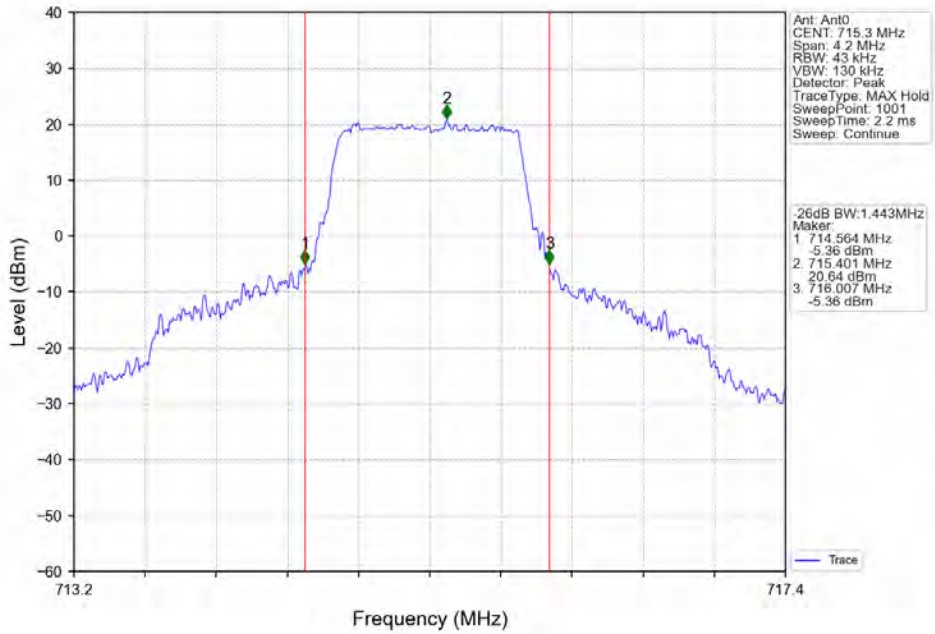


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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

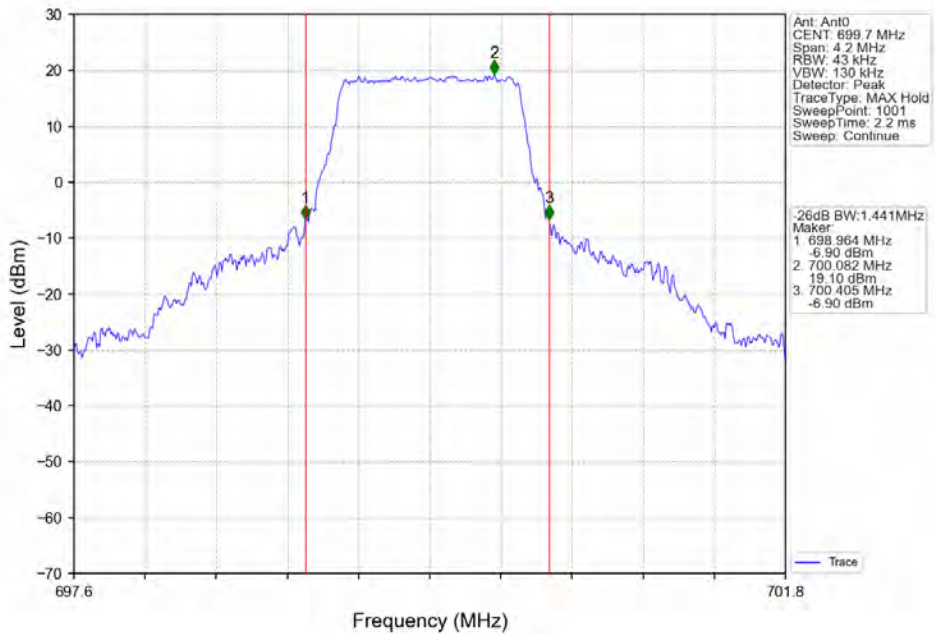


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

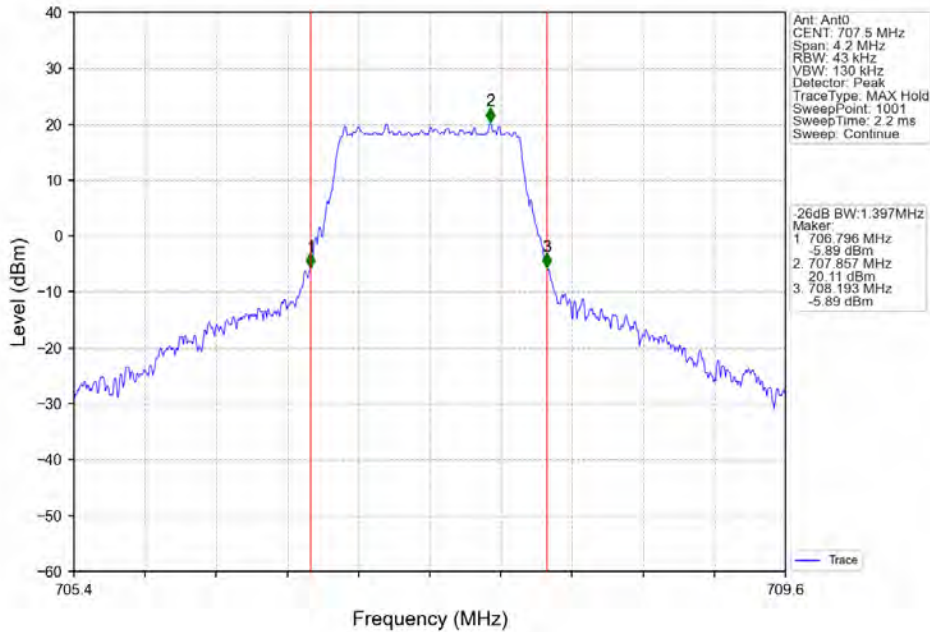


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Band12 1.4MHz 16QAM MCH 707.5MHz_RB_6_0_NTNV

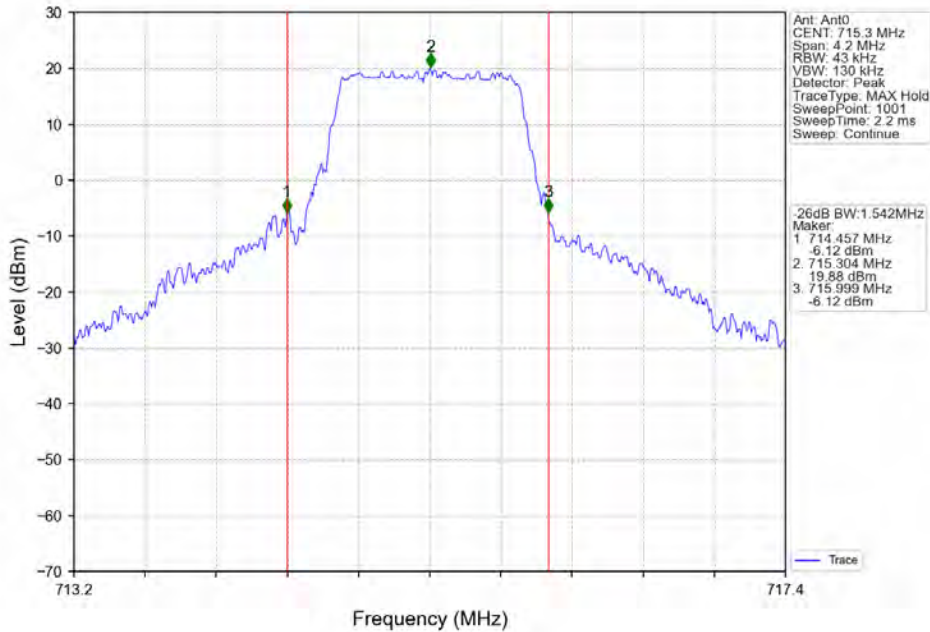


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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_6_0 NTNv

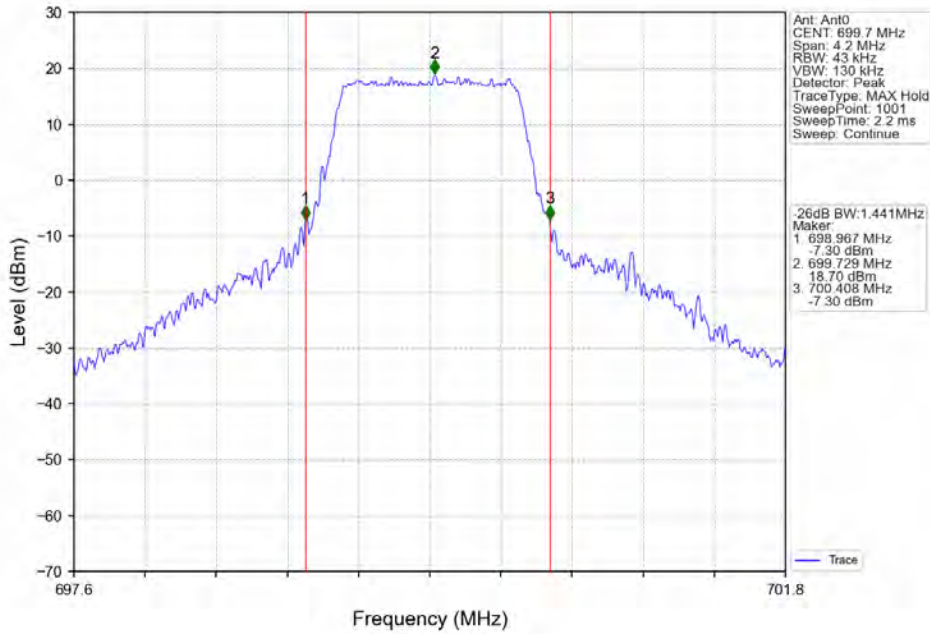


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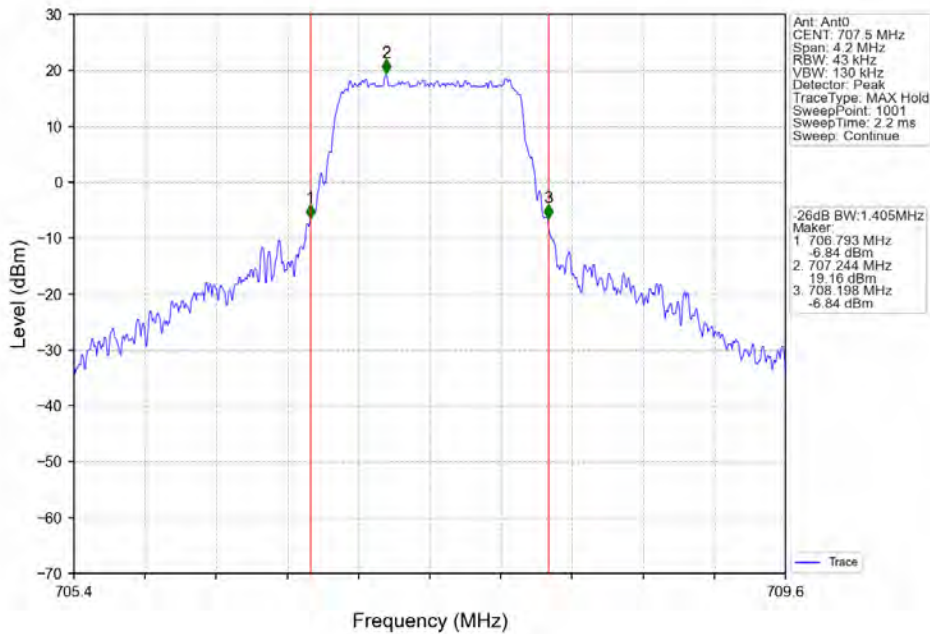


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Band12 1.4MHz 64QAM MCH 707.5MHz_RB_6_0 NTN

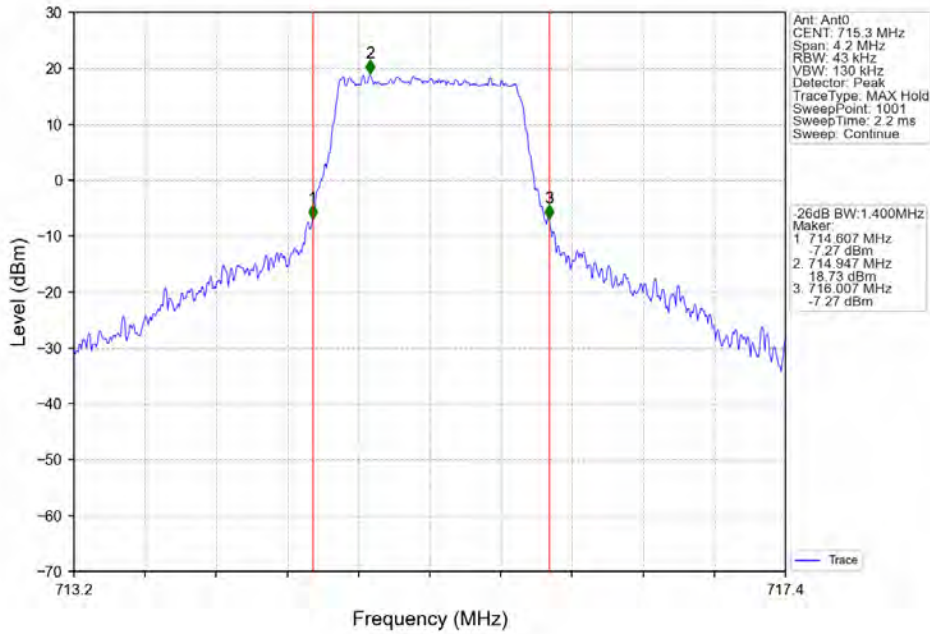


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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_6_0 NTN

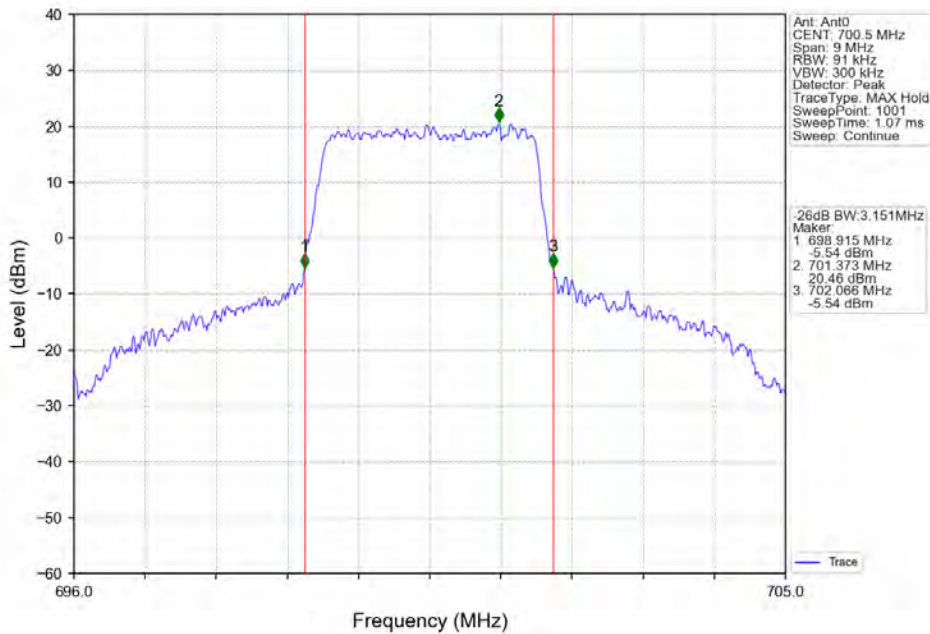


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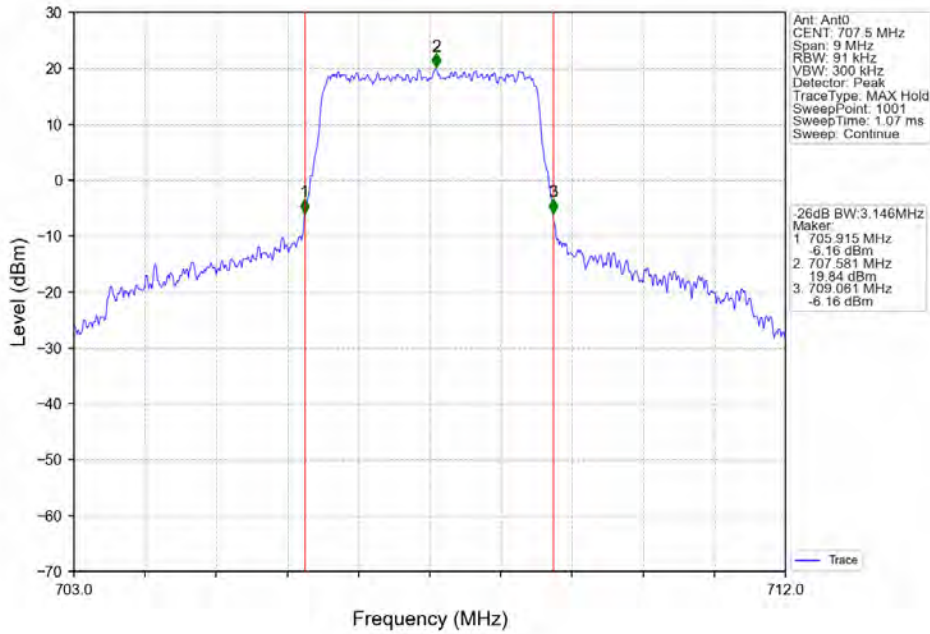


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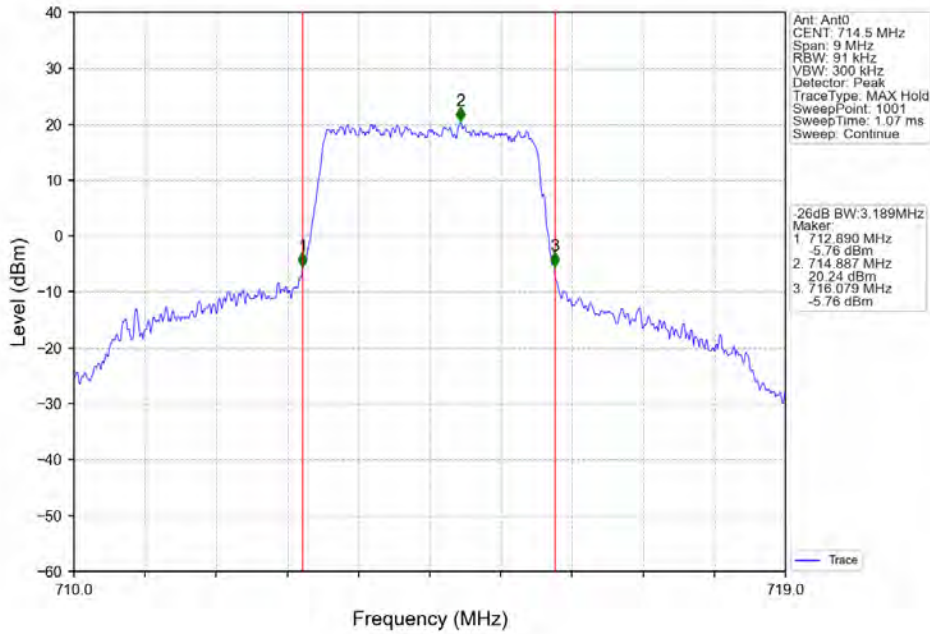


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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

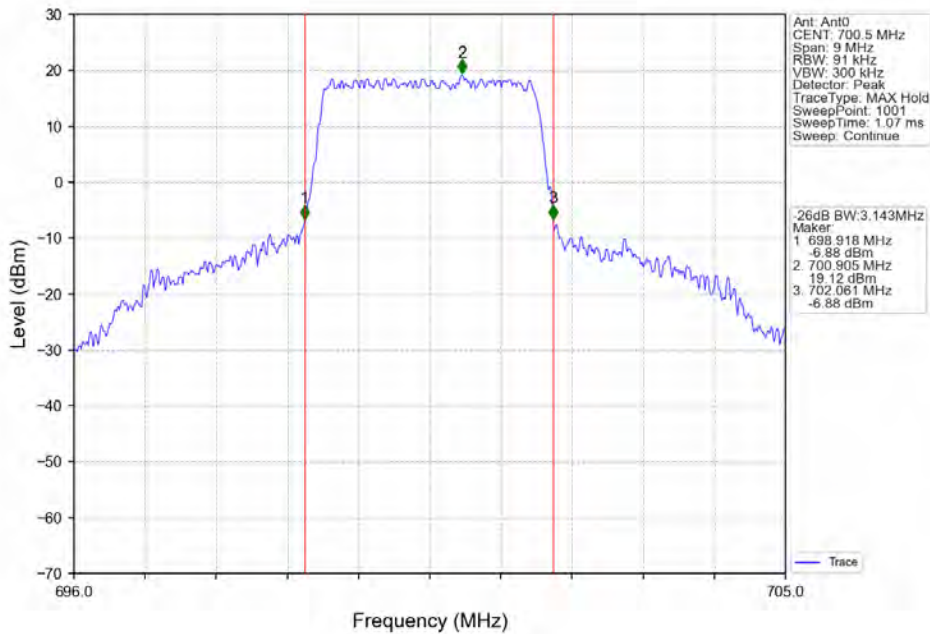


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Band12_3MHz_16QAM LCH 700.5MHz_RB_15_0_NTNV

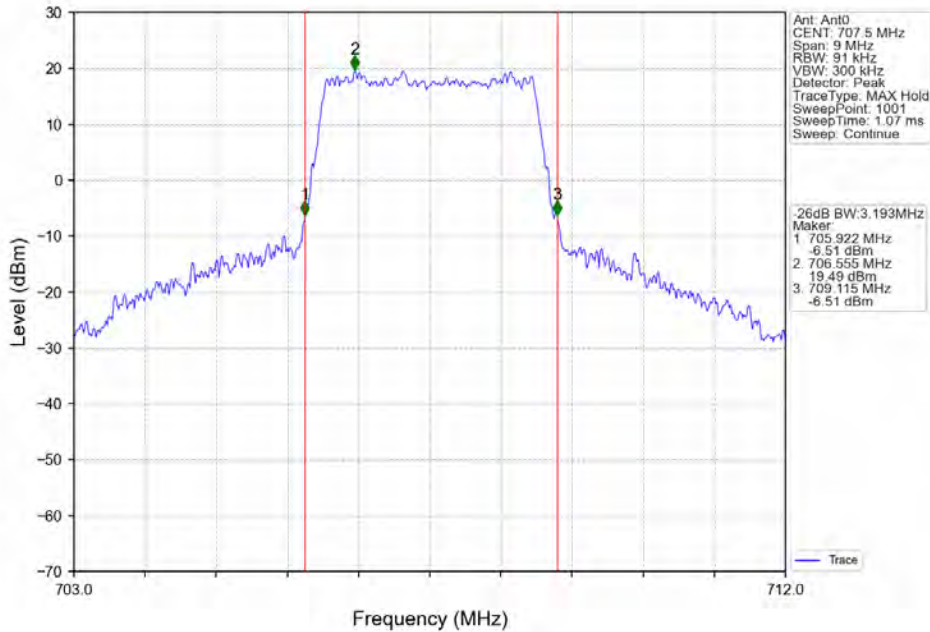


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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

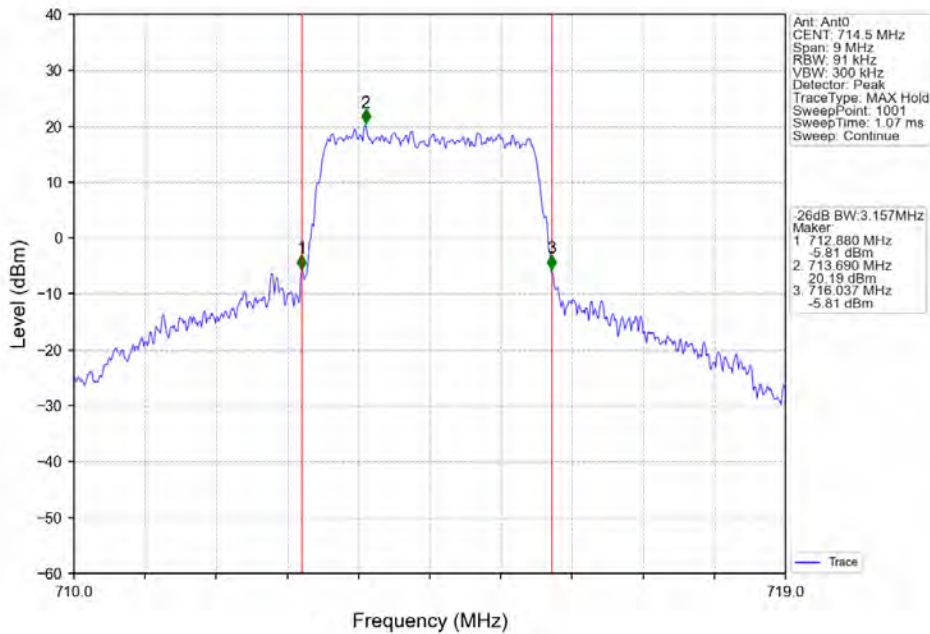


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Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

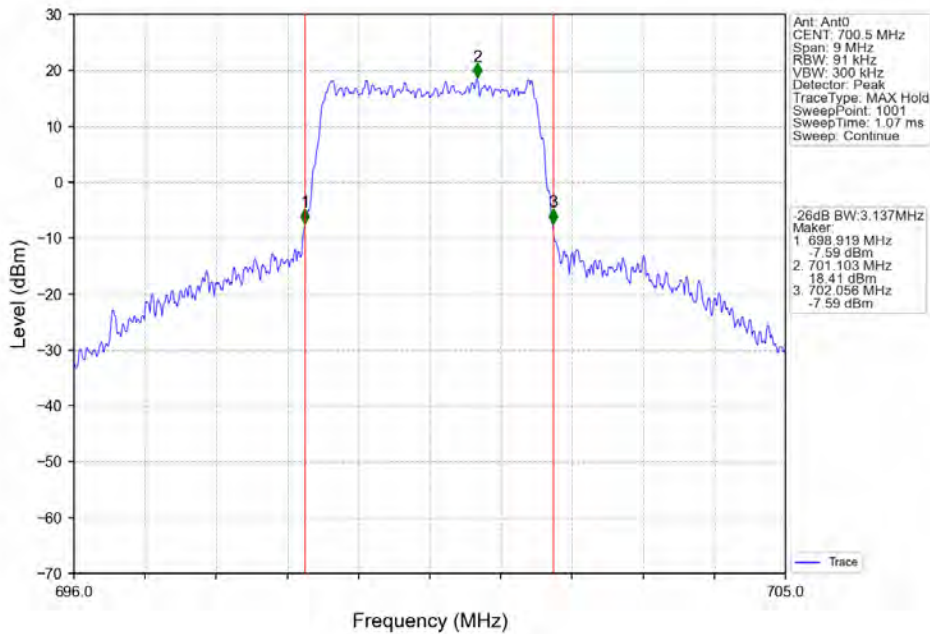


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Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV

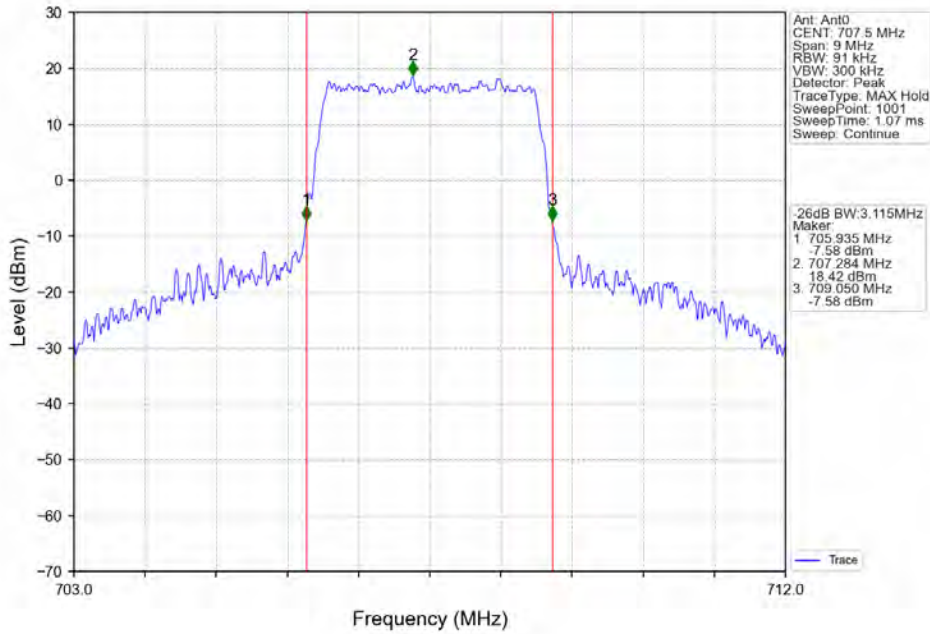


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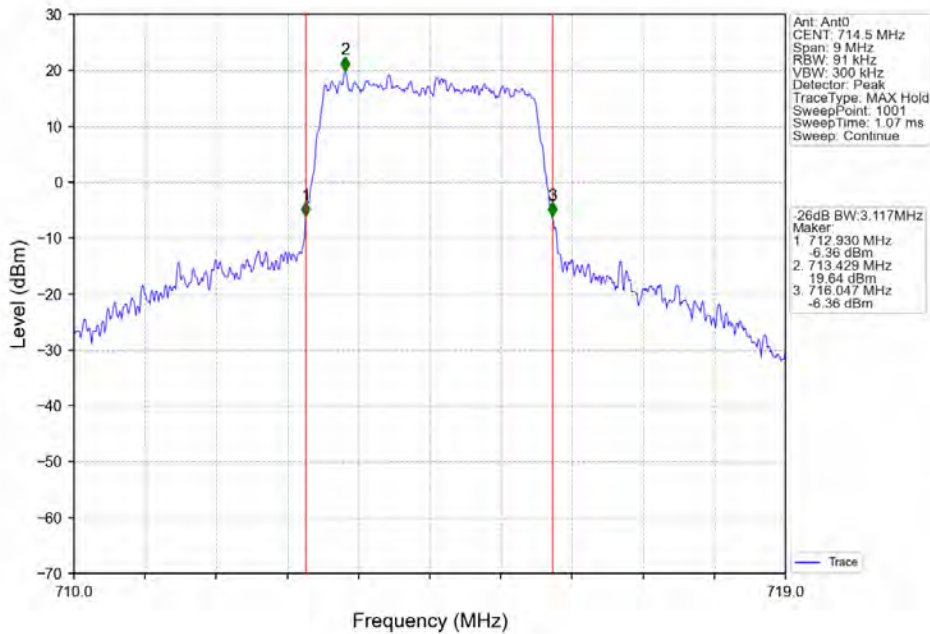


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Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



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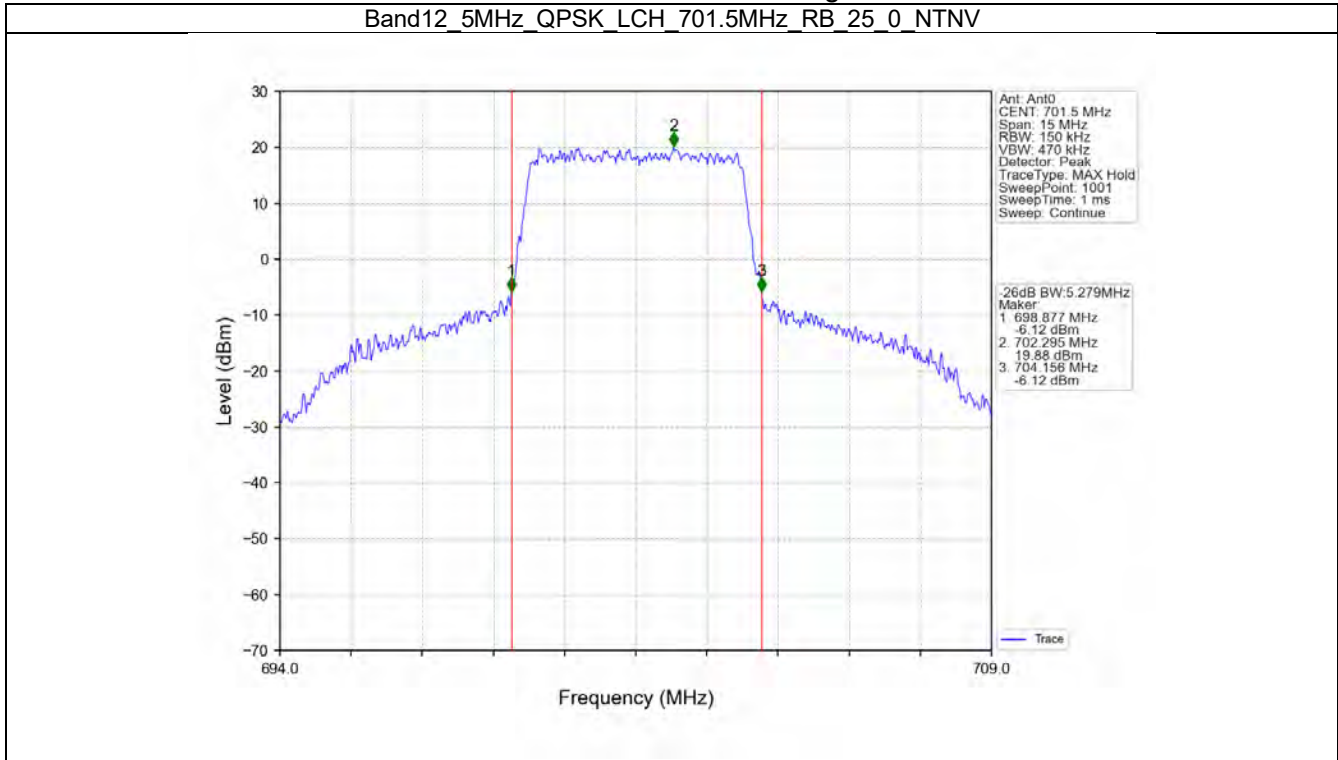
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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

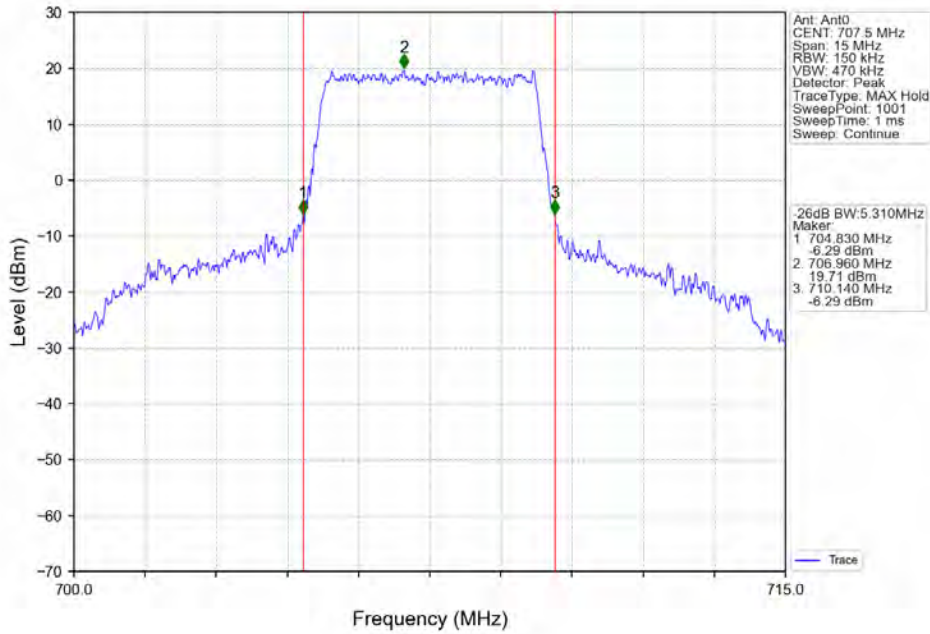


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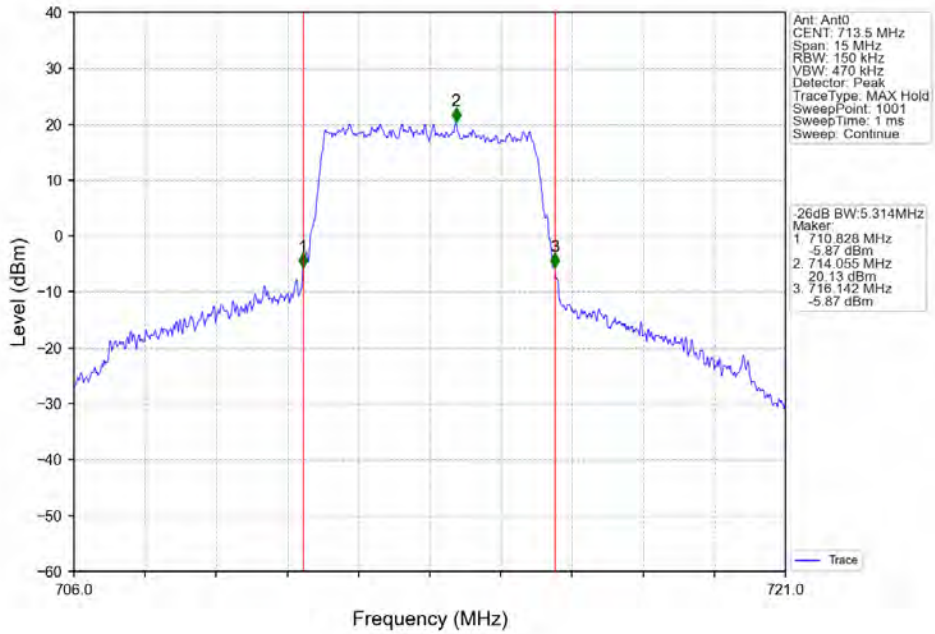


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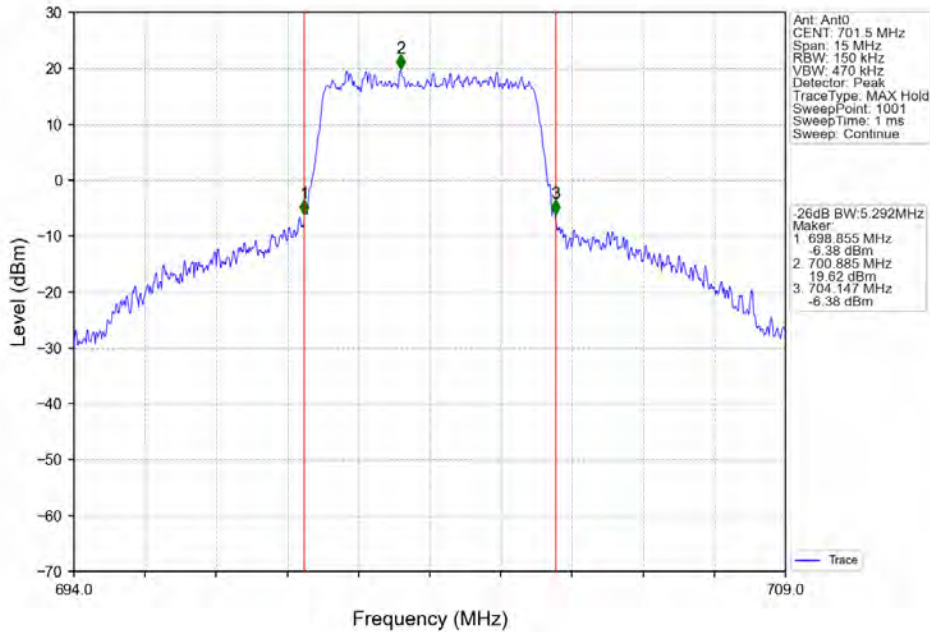


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Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

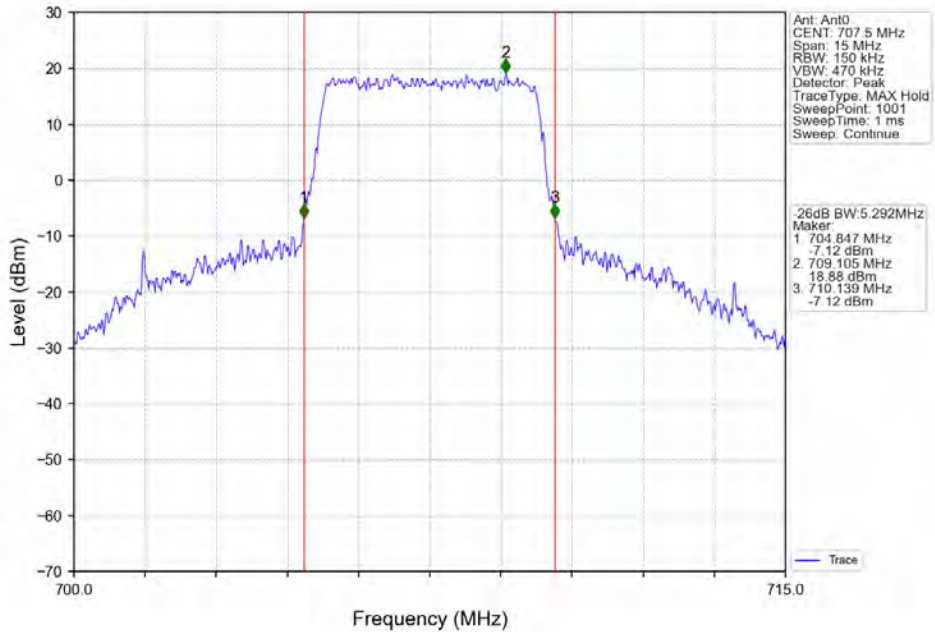


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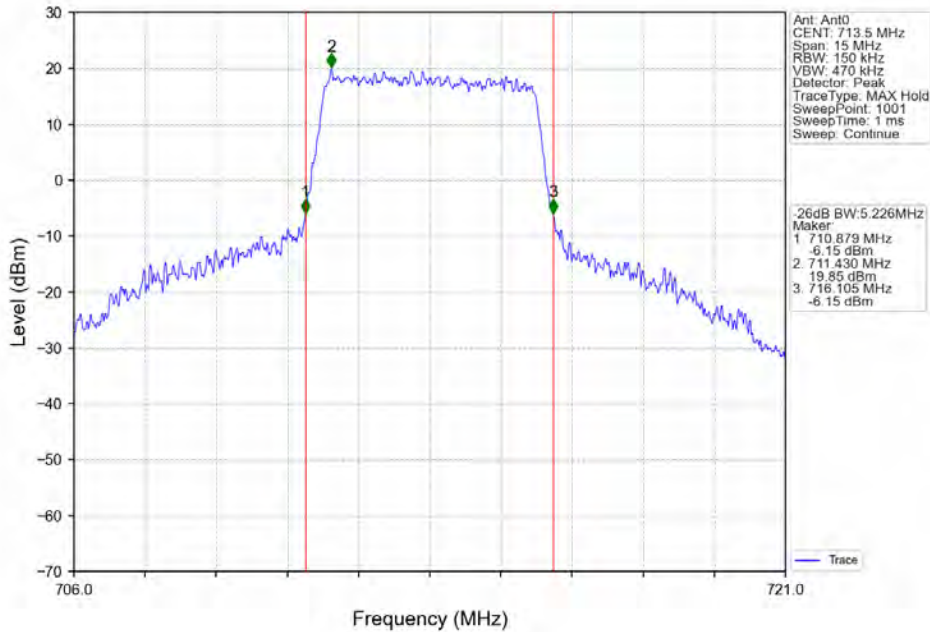


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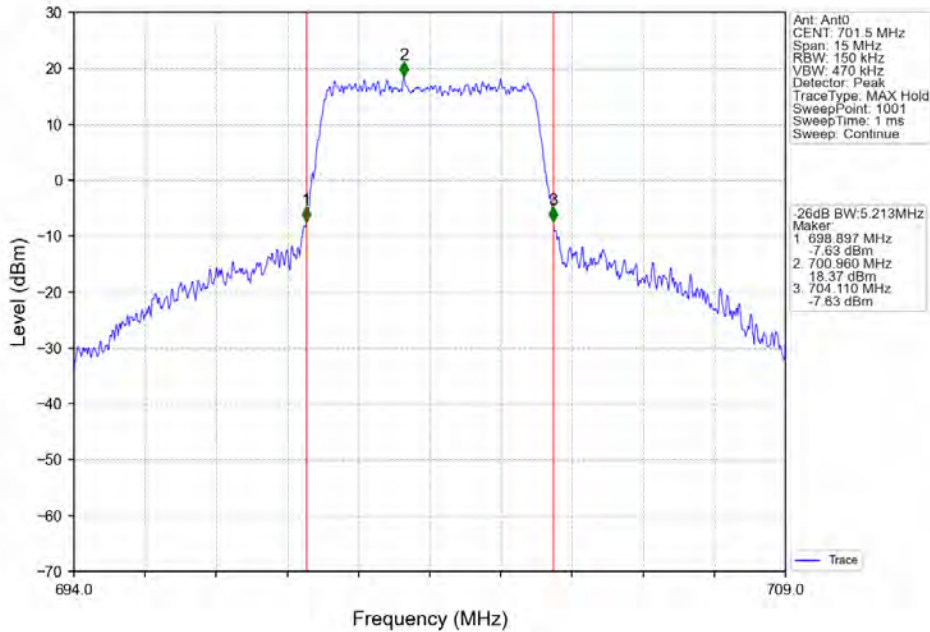


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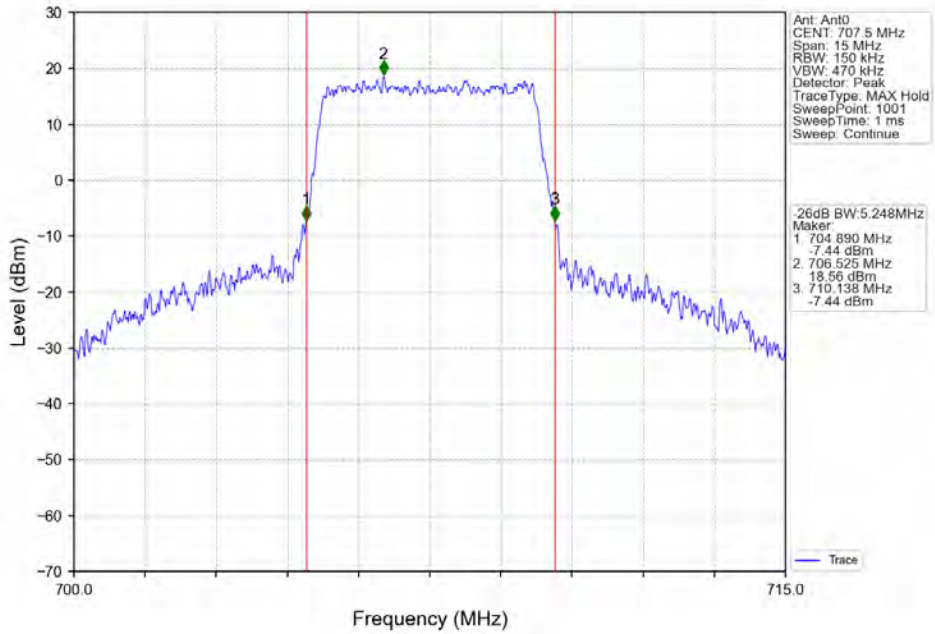


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Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV

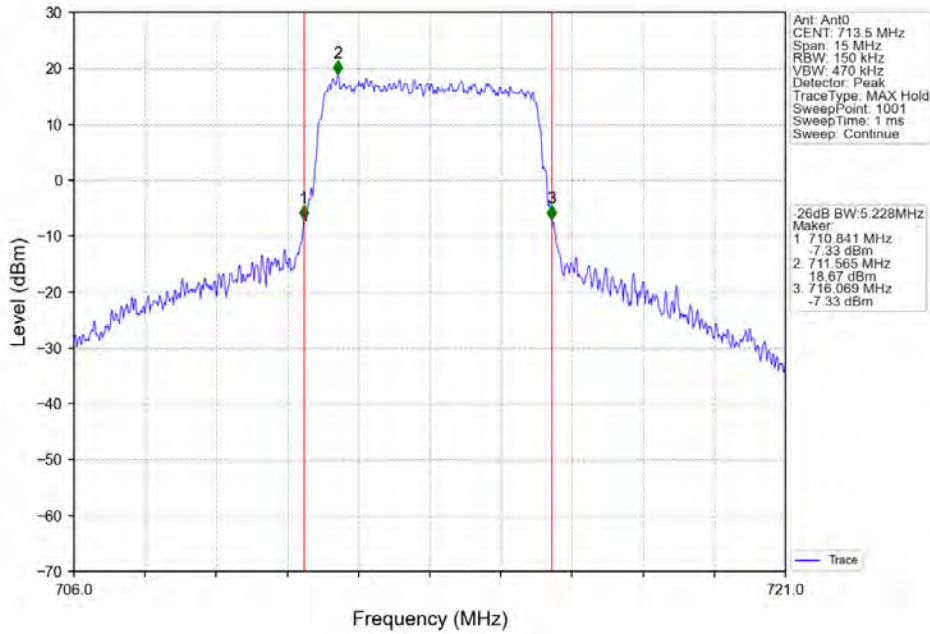


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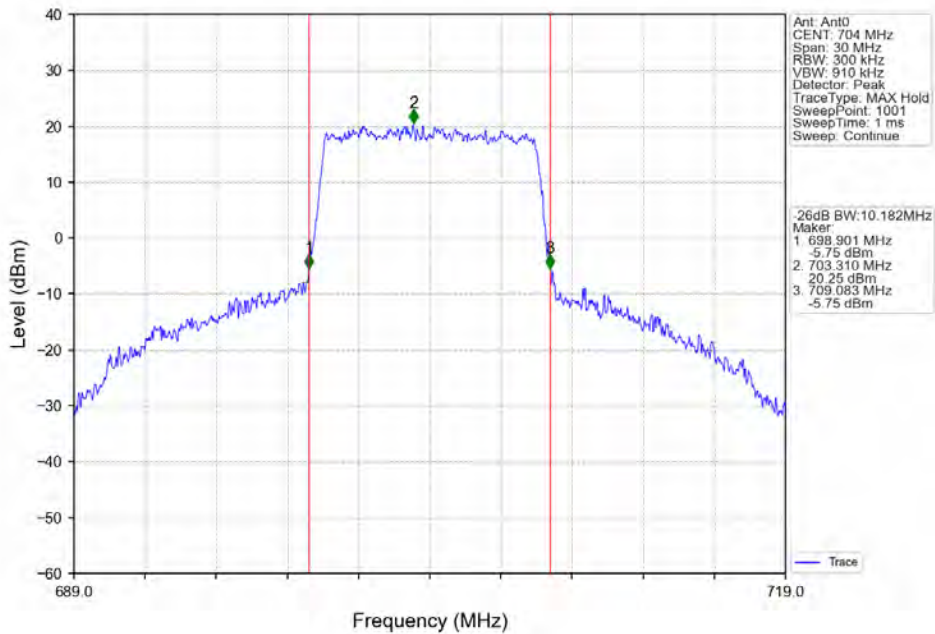


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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

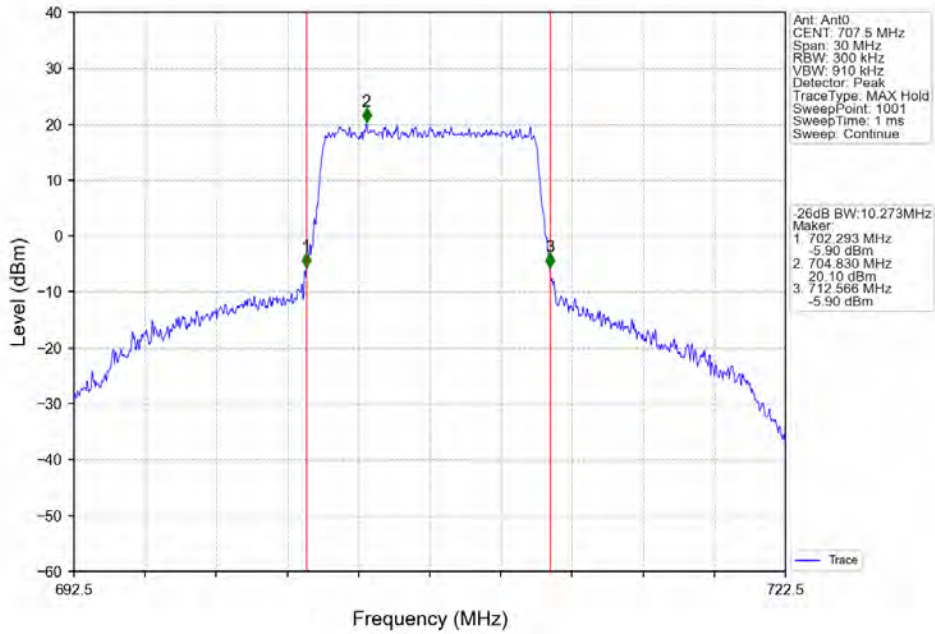


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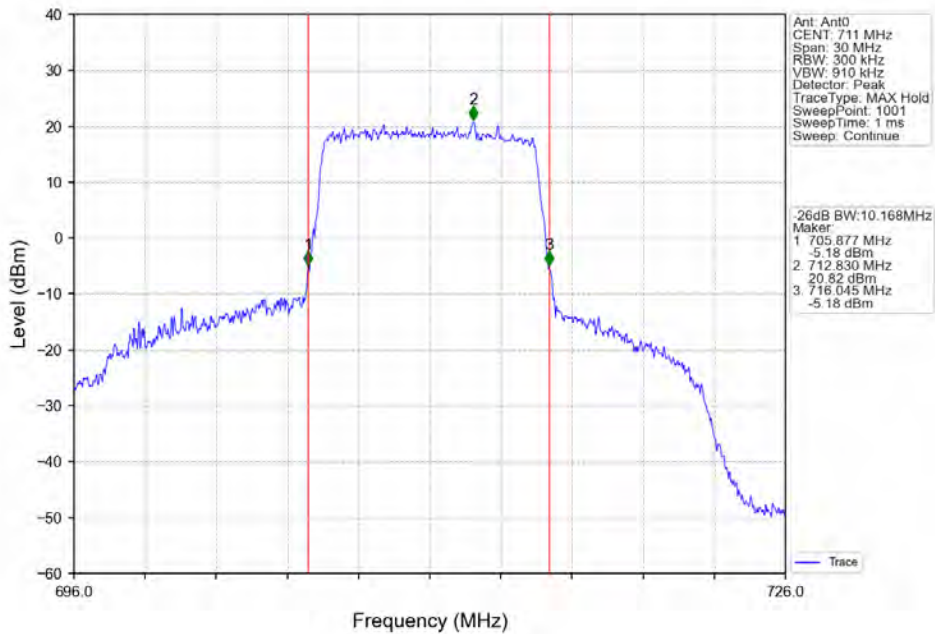


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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

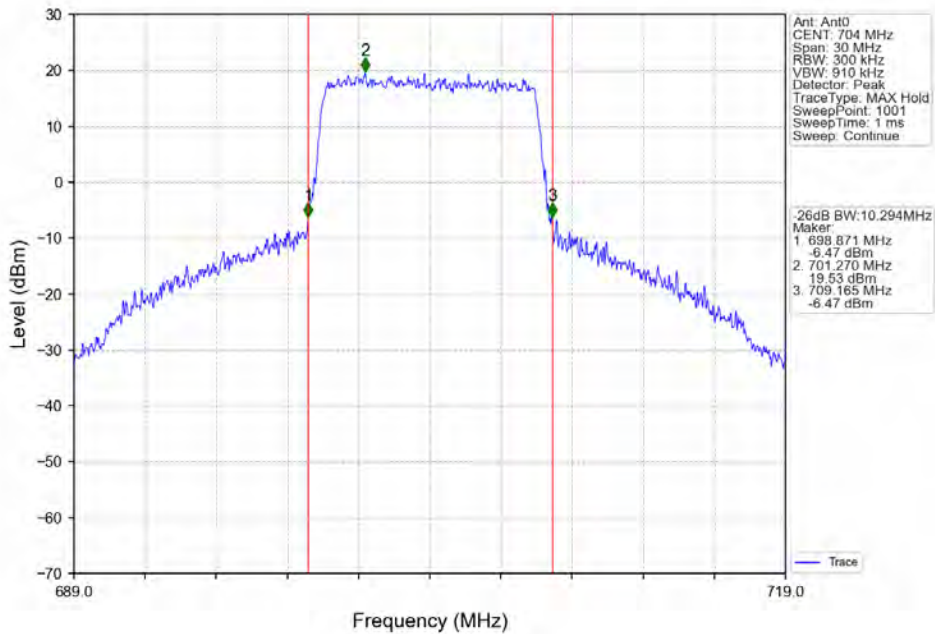


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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

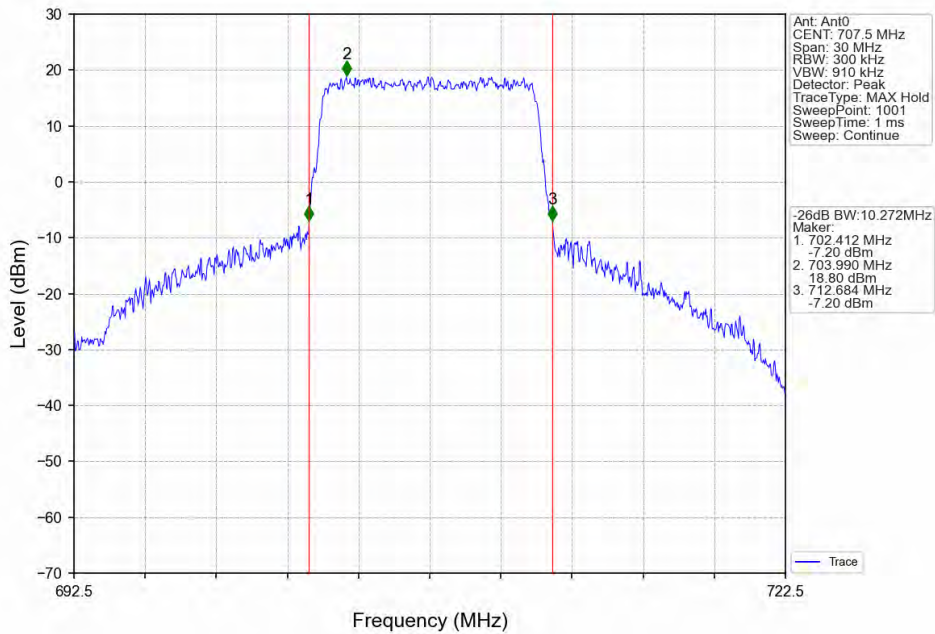


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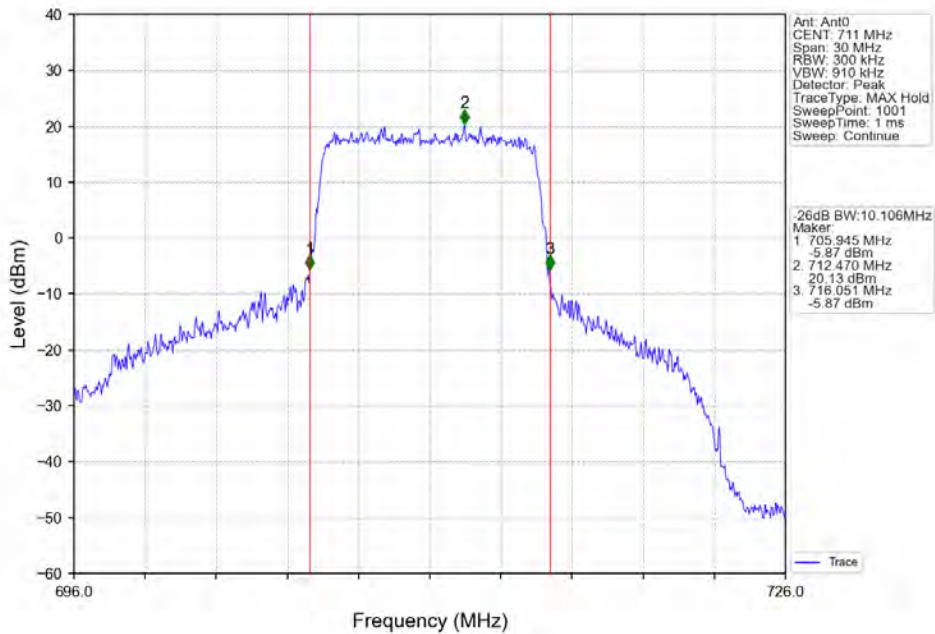


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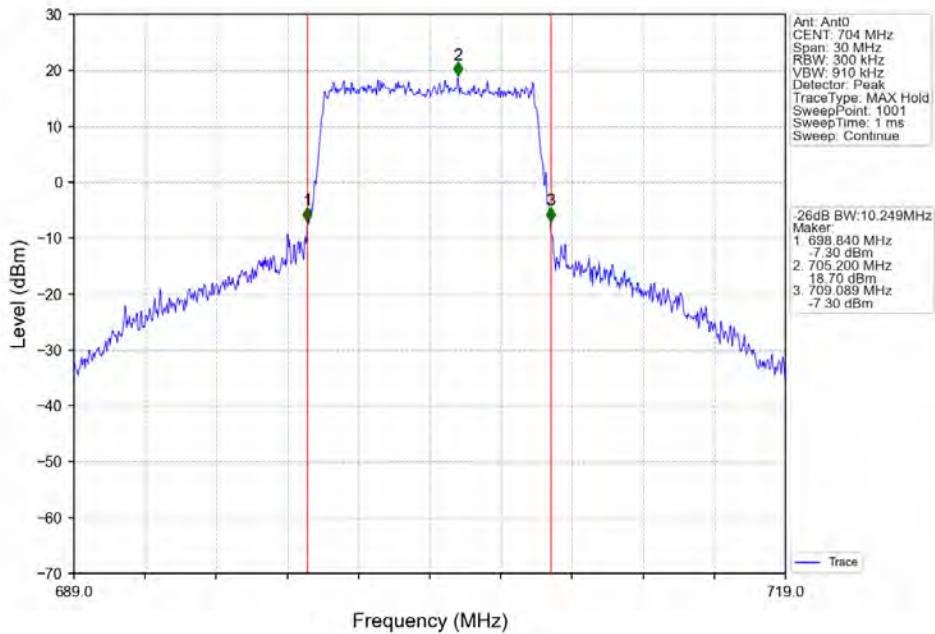


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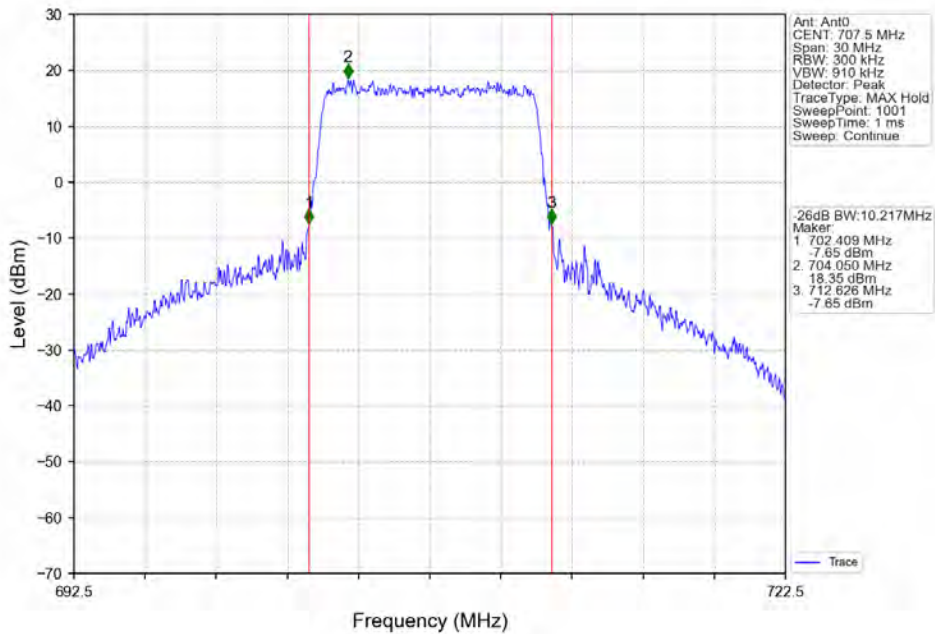


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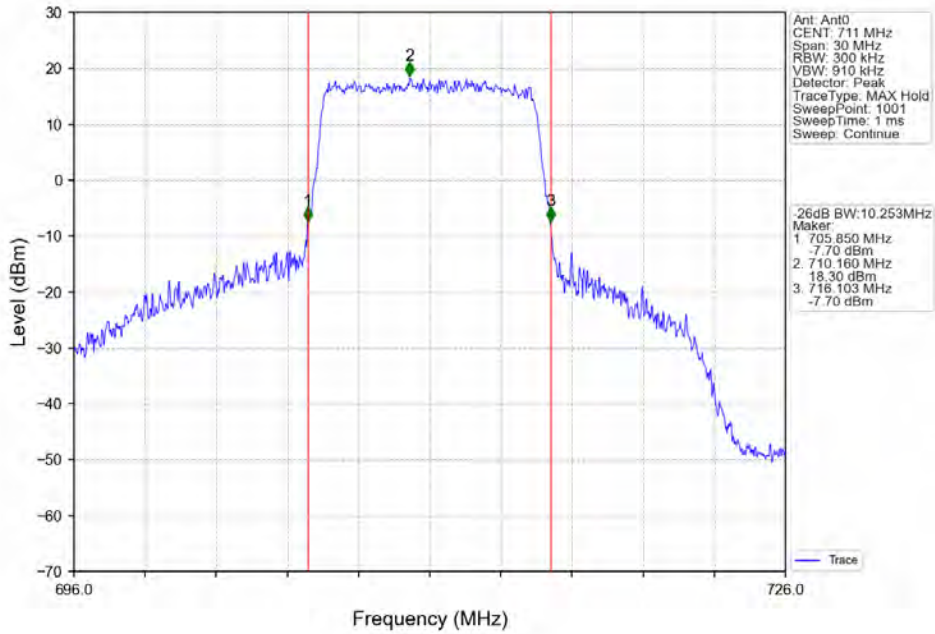


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4. Peak-Average Ratio

4.1 B12_1.4MHz

4.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	3.73	<=13	Pass
	707.5	6	0	4.26	<=13	Pass
	715.3	6	0	3.78	<=13	Pass
16QAM	699.7	6	0	4.65	<=13	Pass
	707.5	6	0	5.16	<=13	Pass
	715.3	6	0	4.71	<=13	Pass
64QAM	699.7	6	0	5.45	<=13	Pass
	707.5	6	0	5.95	<=13	Pass
	715.3	6	0	5.49	<=13	Pass

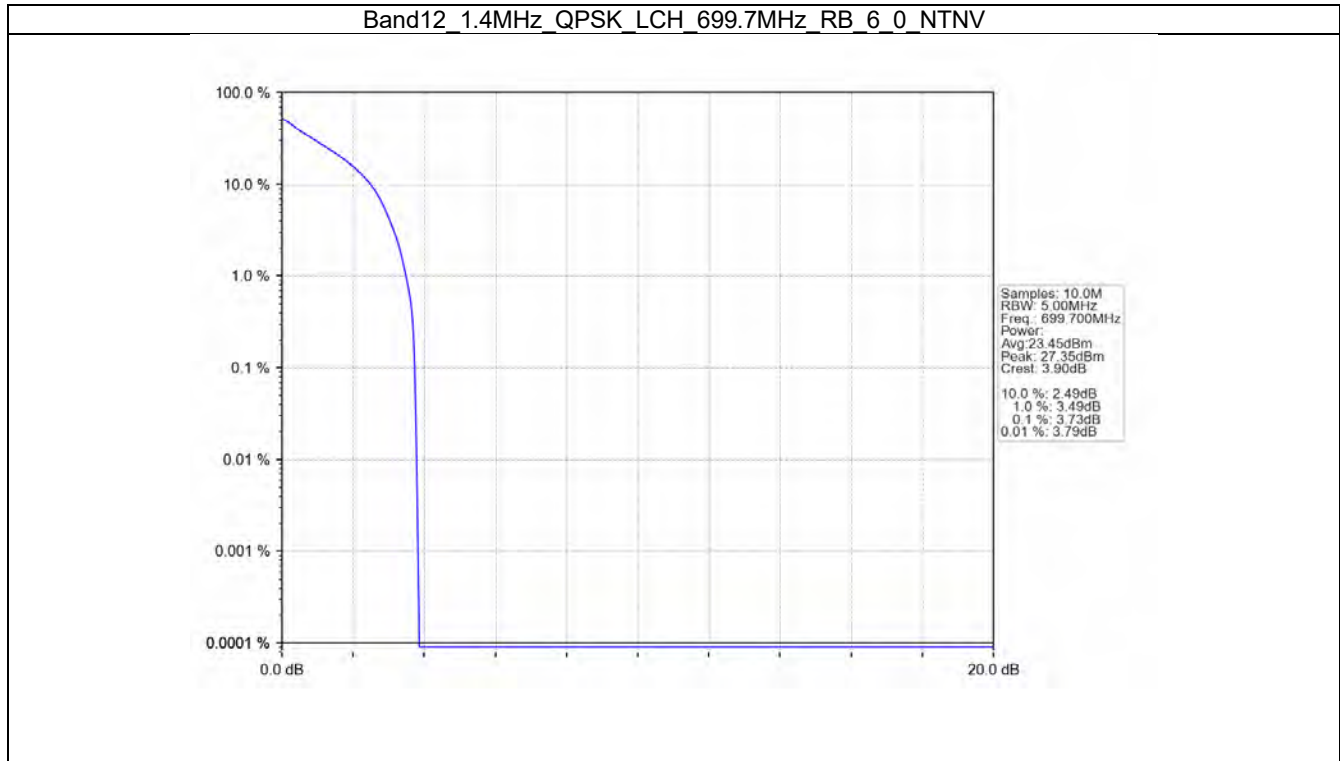


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4.1.2 Test Graph



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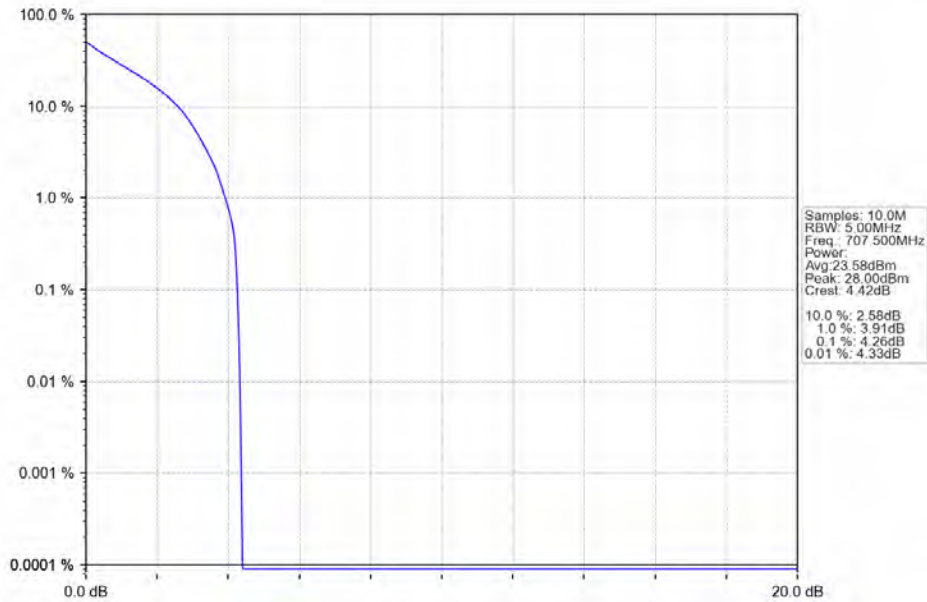
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Rev.: 01

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Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



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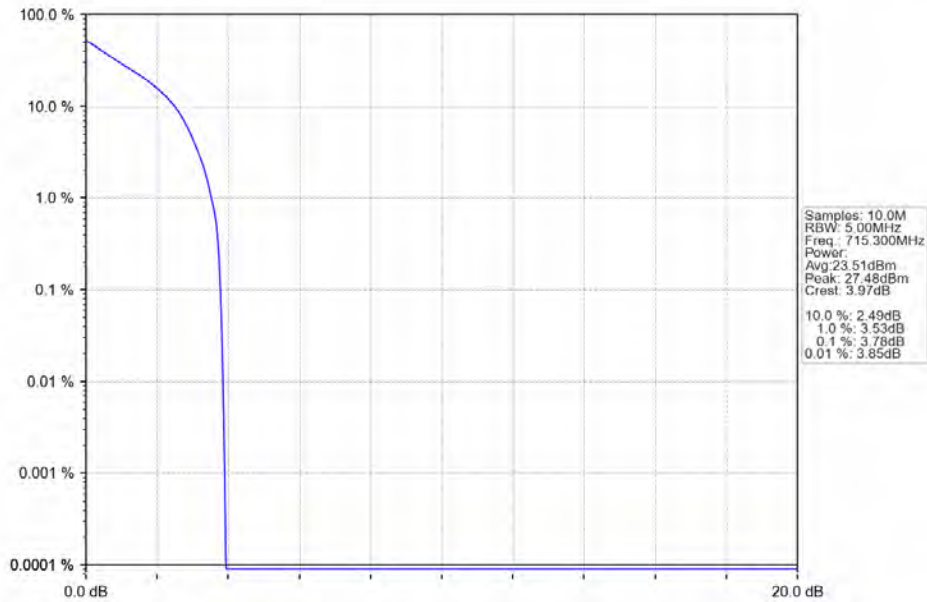
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

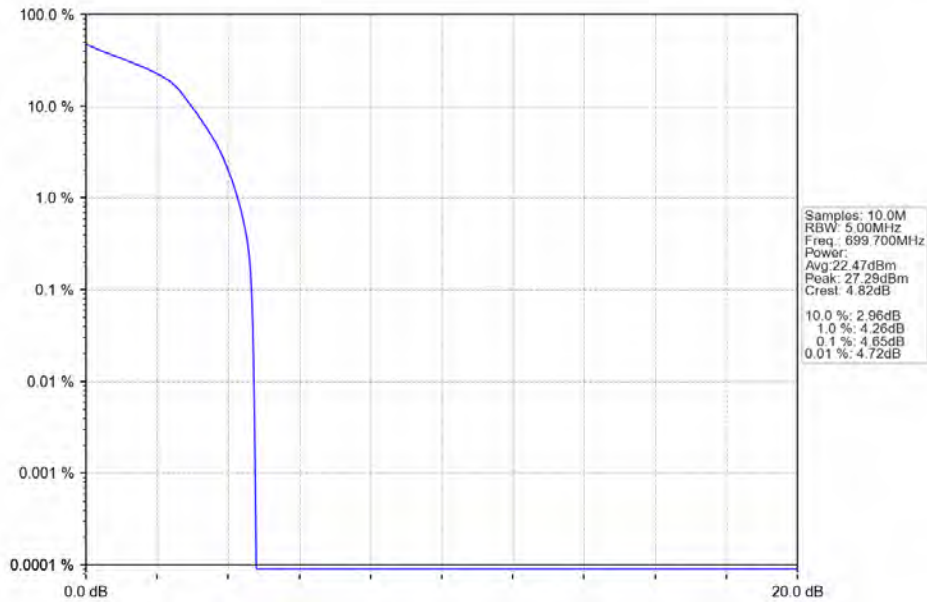


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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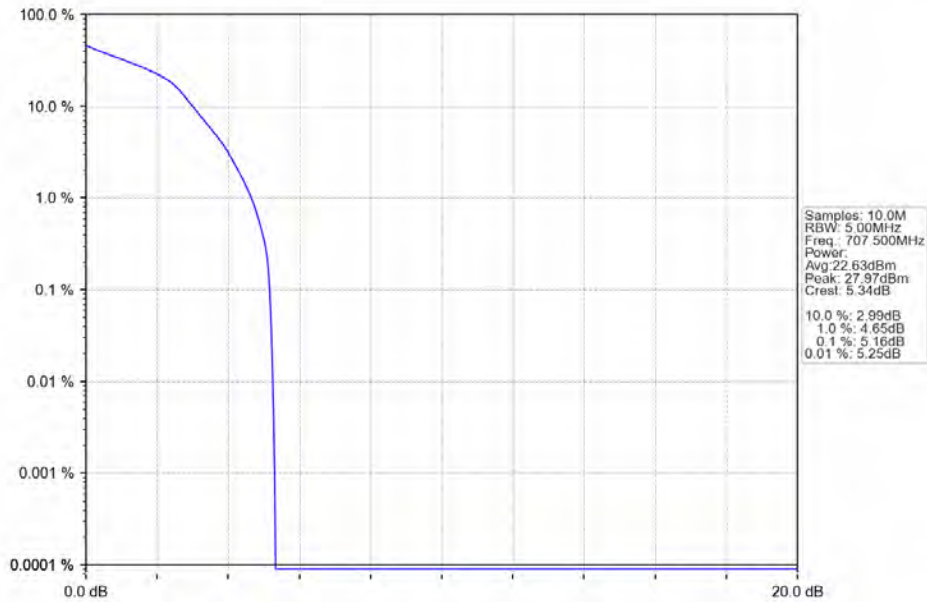
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Band12 1.4MHz 16QAM MCH 707.5MHz_RB_6_0 NTNv

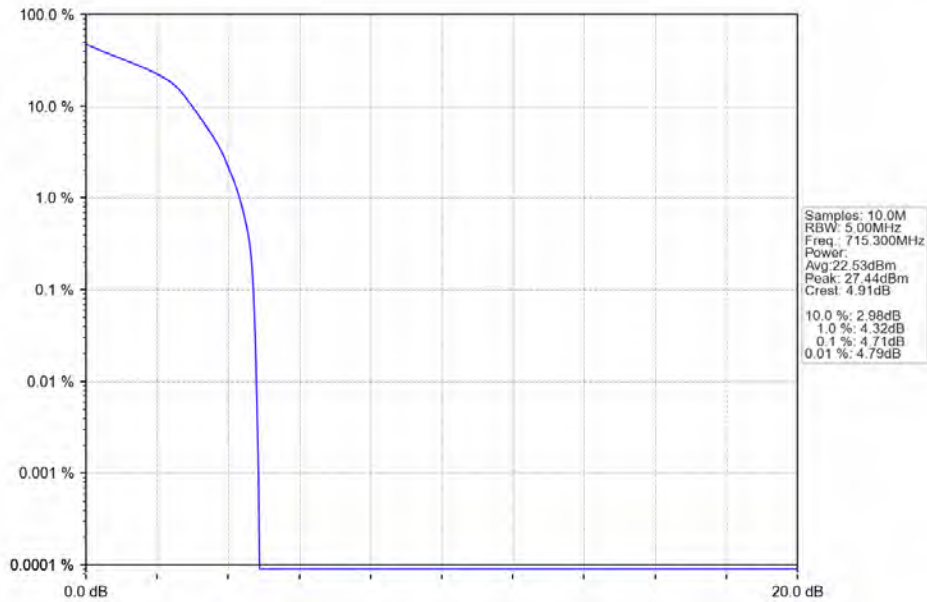


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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_6_0 NTN

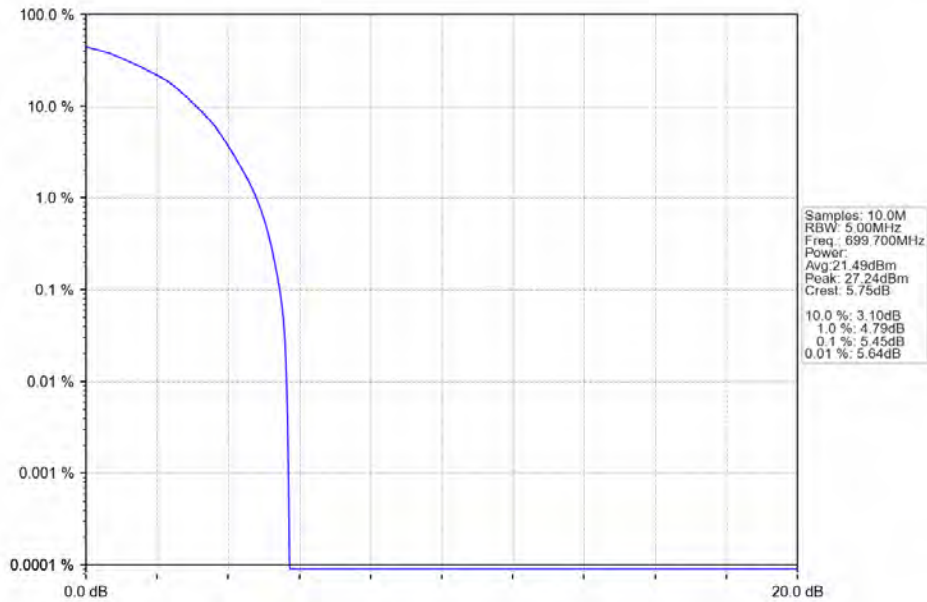


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Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV



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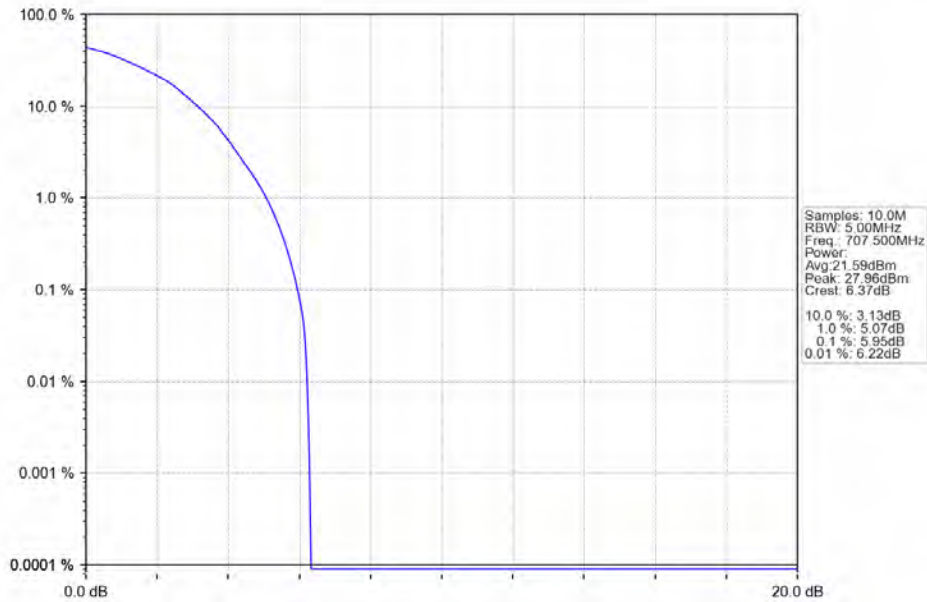
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Band12 1.4MHz 64QAM MCH 707.5MHz_RB_6_0 NTN

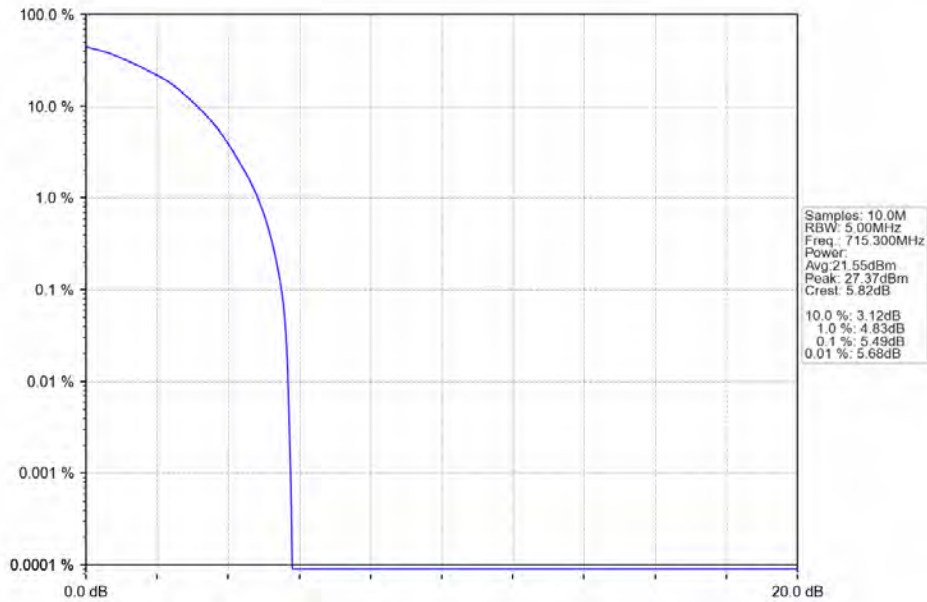


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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_6_0 NTN



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4.2 B12_3MHz

4.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	3.87	<=13	Pass
	707.5	15	0	4.49	<=13	Pass
	714.5	15	0	4.00	<=13	Pass
16QAM	700.5	15	0	4.76	<=13	Pass
	707.5	15	0	5.38	<=13	Pass
	714.5	15	0	4.87	<=13	Pass
64QAM	700.5	15	0	5.54	<=13	Pass
	707.5	15	0	6.05	<=13	Pass
	714.5	15	0	5.64	<=13	Pass

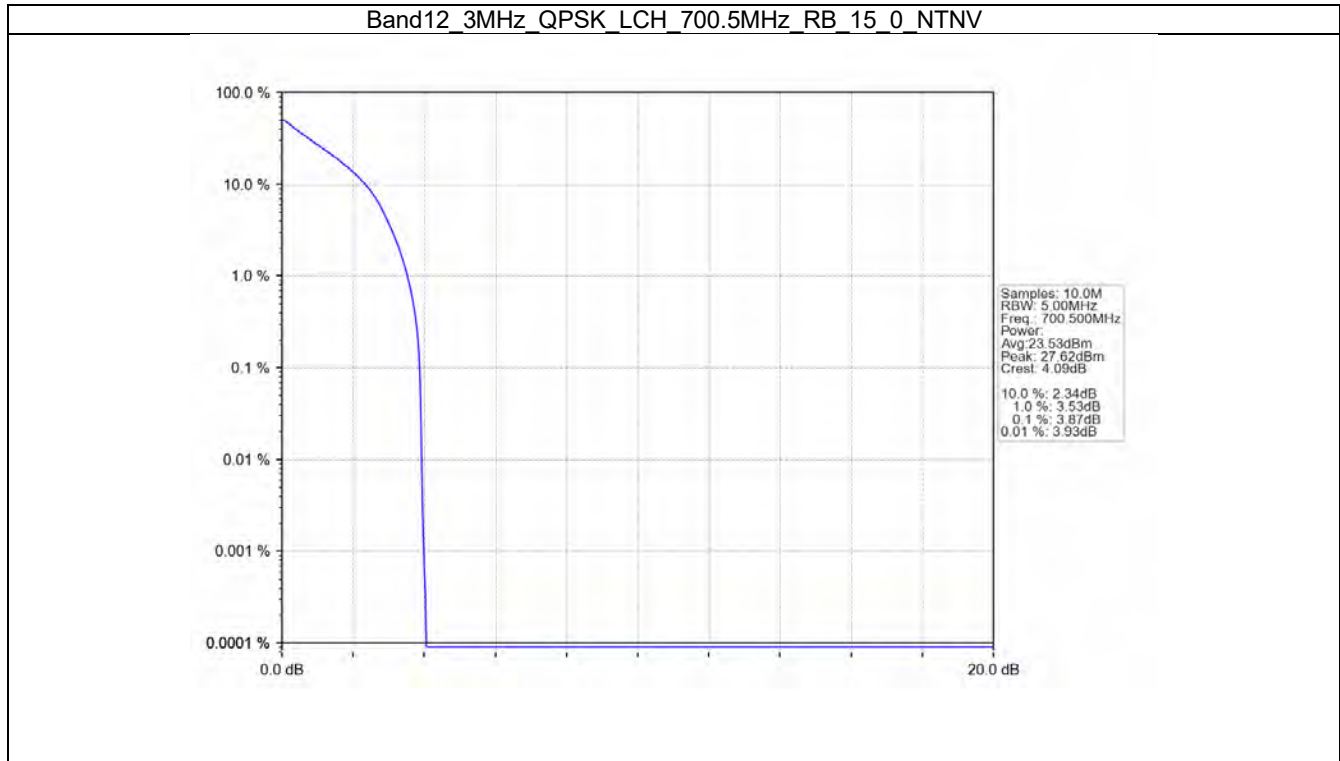


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4.2.2 Test Graph



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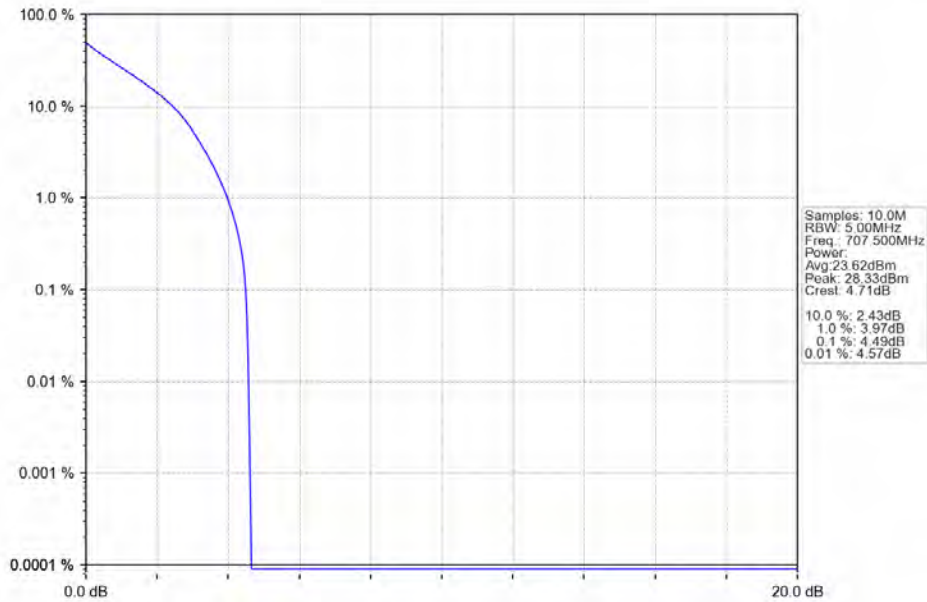
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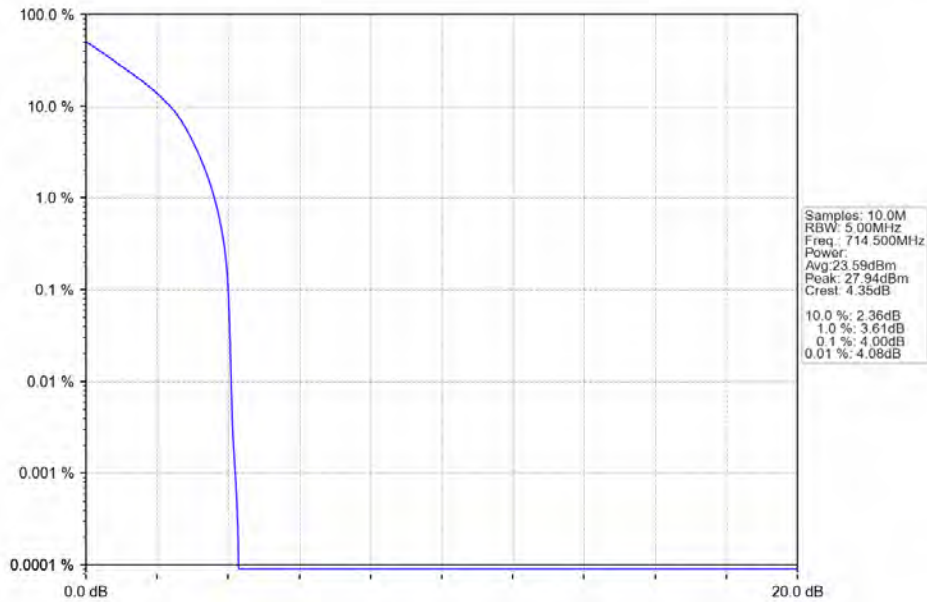


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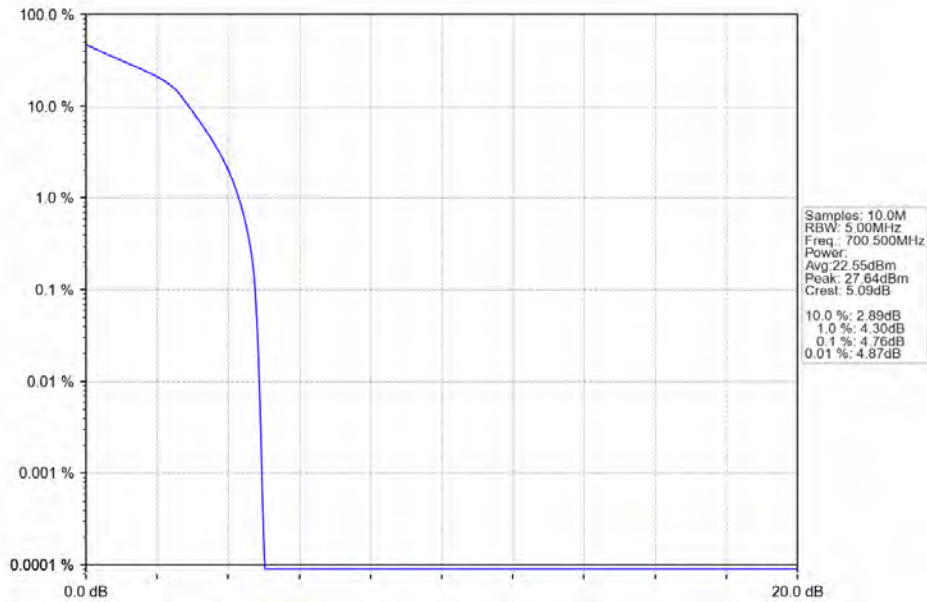
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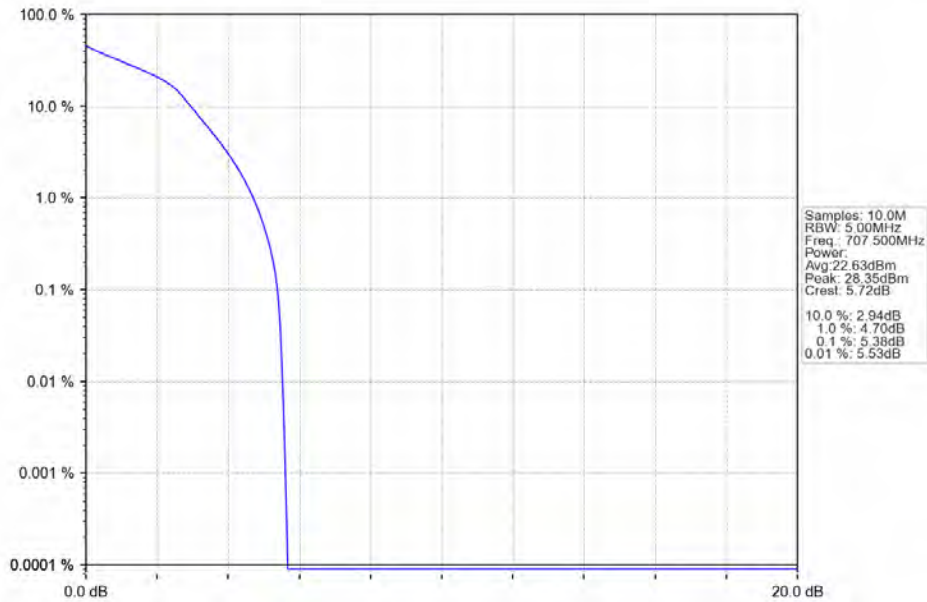
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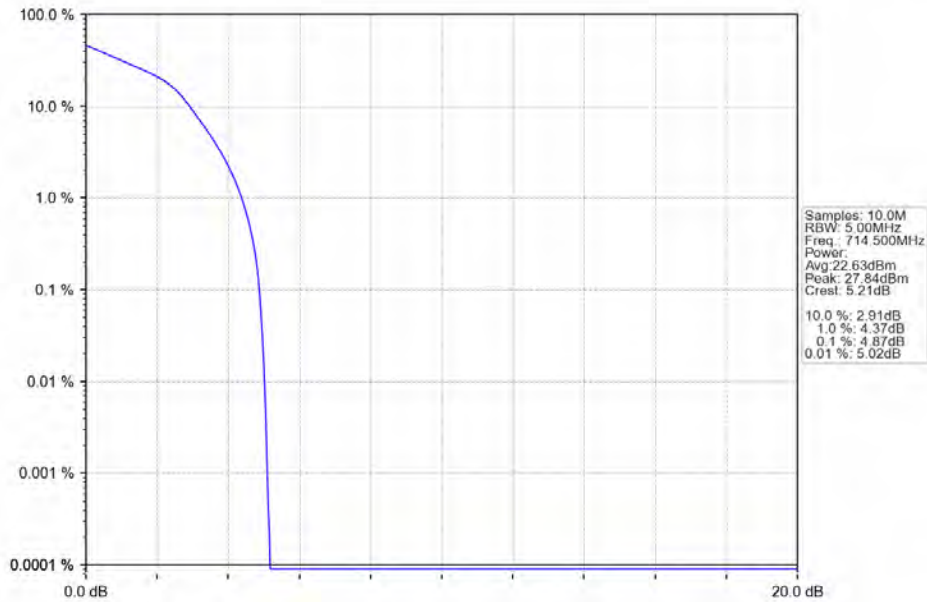
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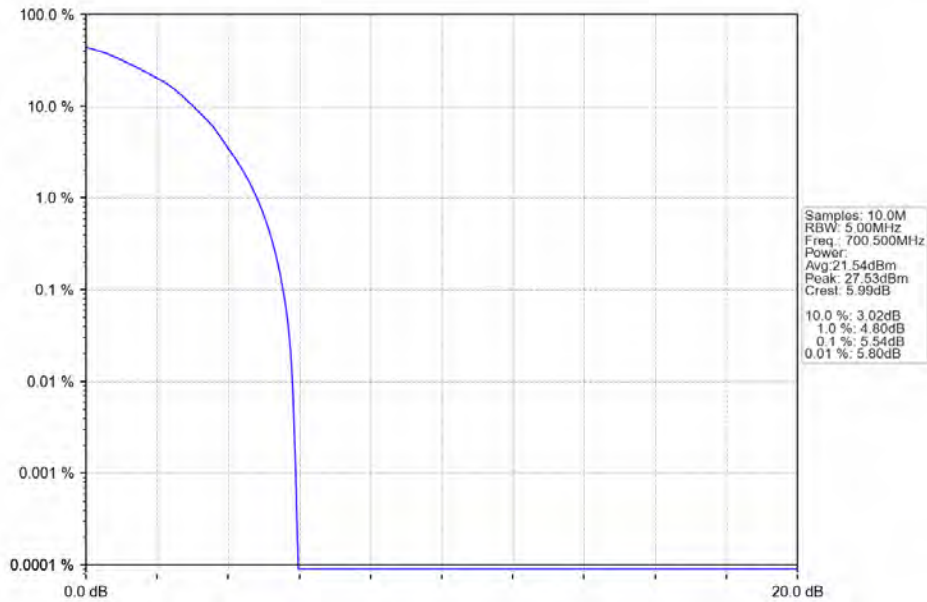
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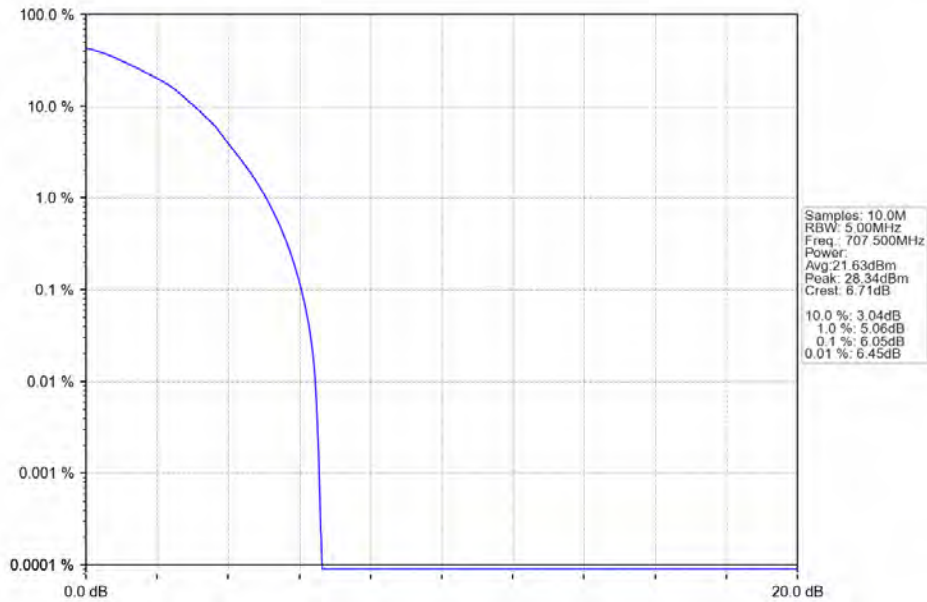
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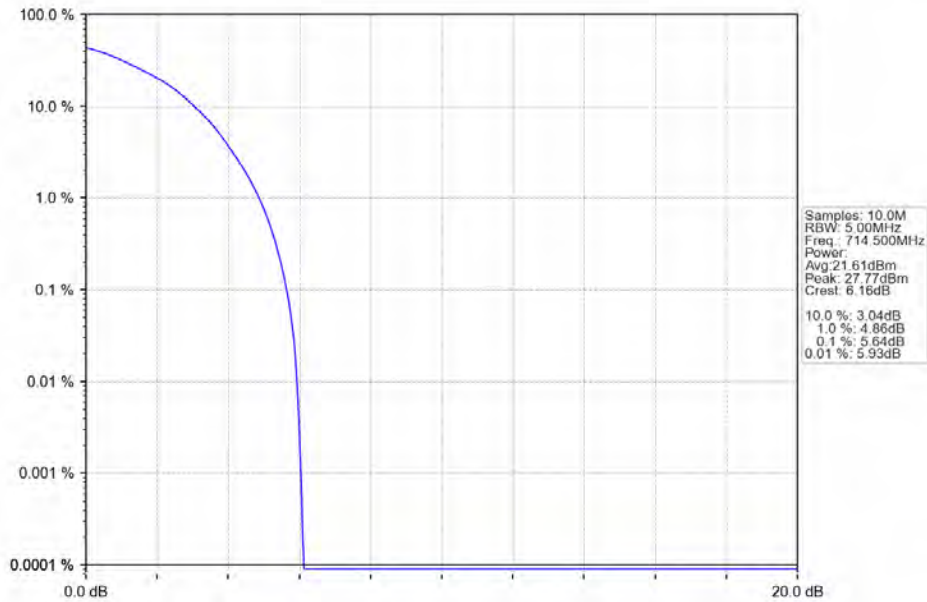
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4.3 B12_5MHz

4.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	4.36	<=13	Pass
	707.5	25	0	4.86	<=13	Pass
	713.5	25	0	4.57	<=13	Pass
16QAM	701.5	25	0	5.15	<=13	Pass
	707.5	25	0	5.68	<=13	Pass
	713.5	25	0	5.40	<=13	Pass
64QAM	701.5	25	0	5.77	<=13	Pass
	707.5	25	0	6.22	<=13	Pass
	713.5	25	0	5.98	<=13	Pass

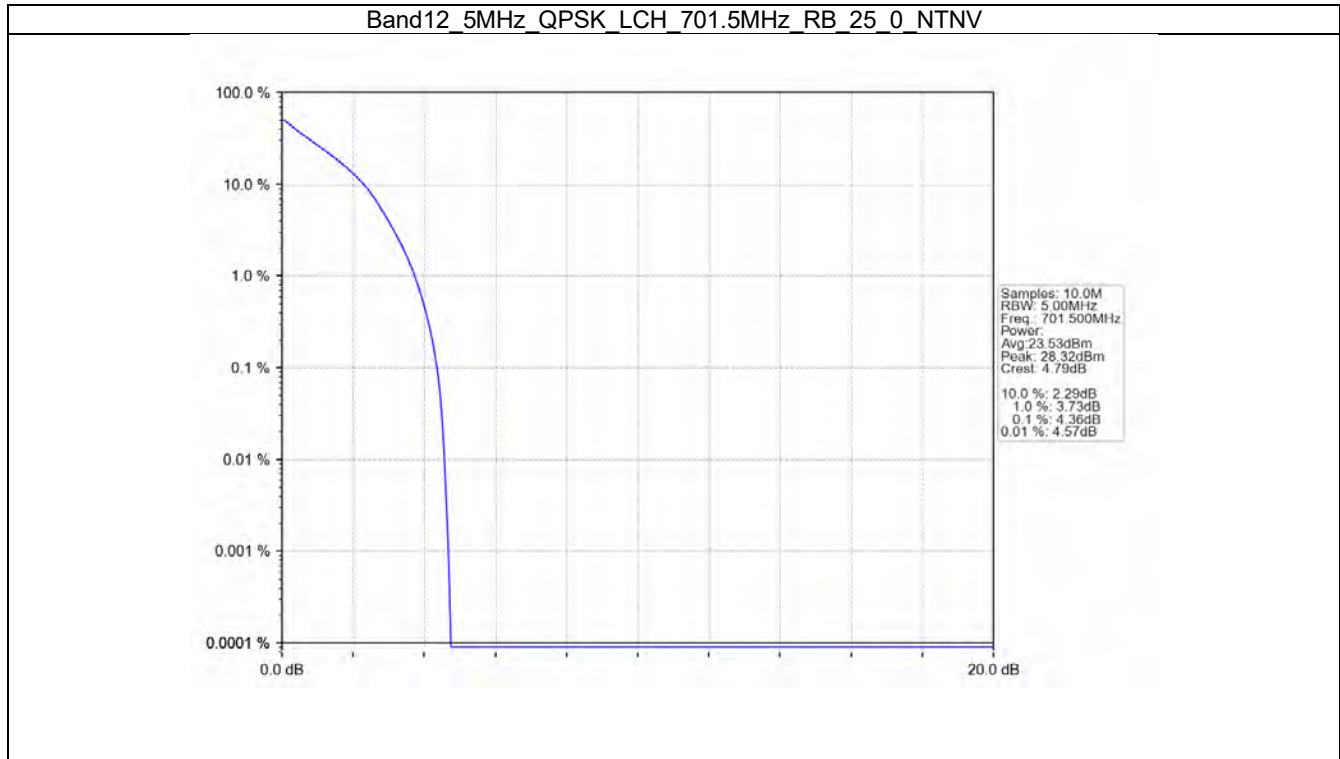


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4.3.2 Test Graph



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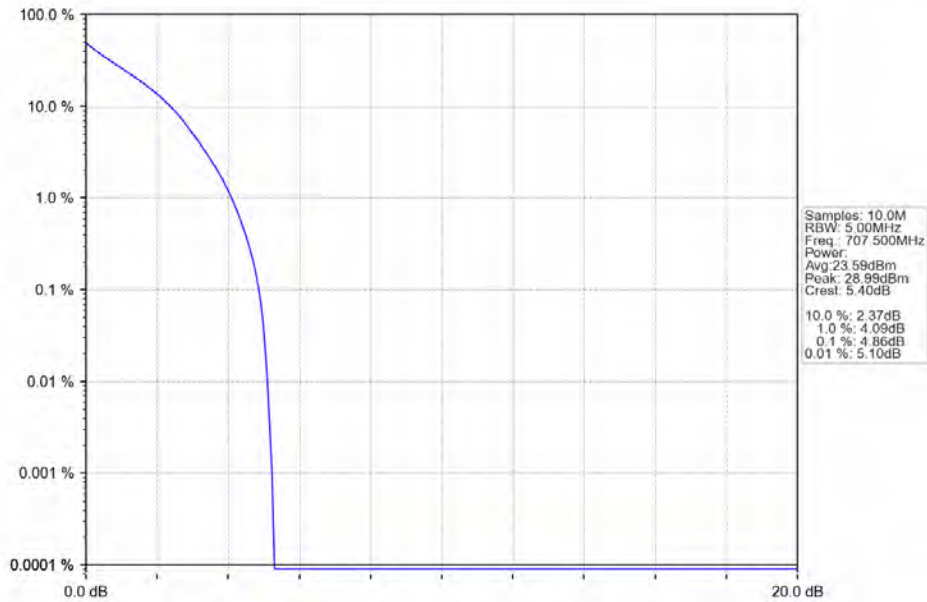
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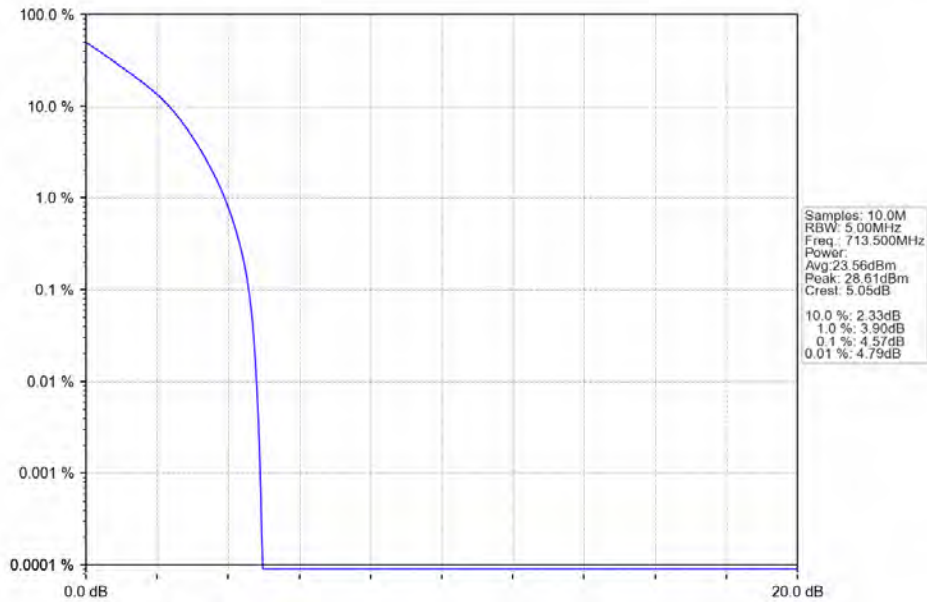
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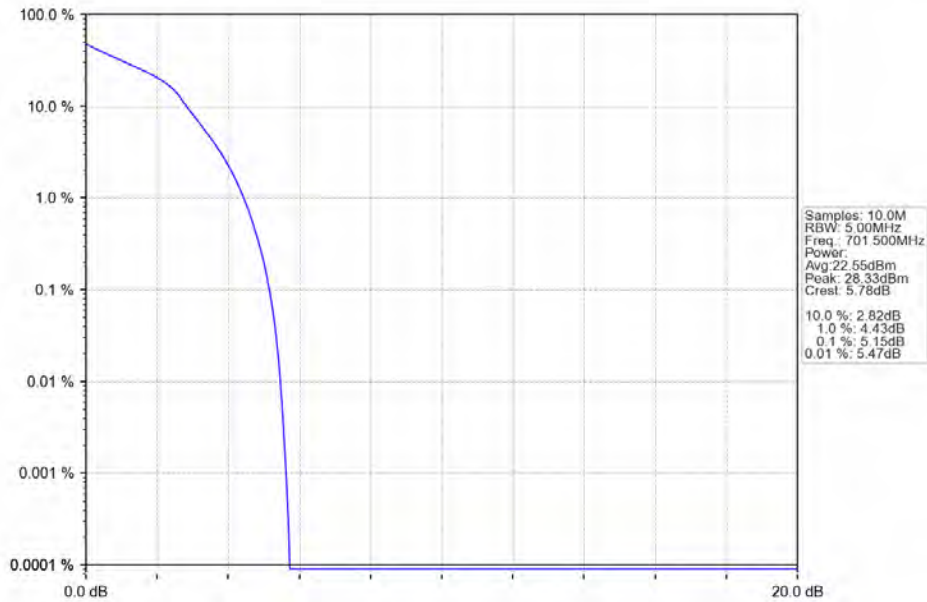


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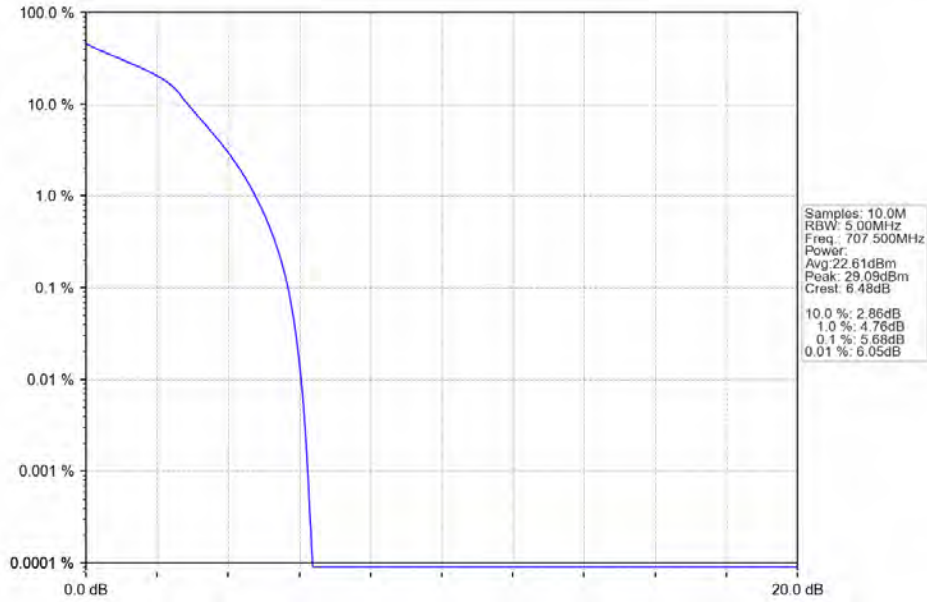
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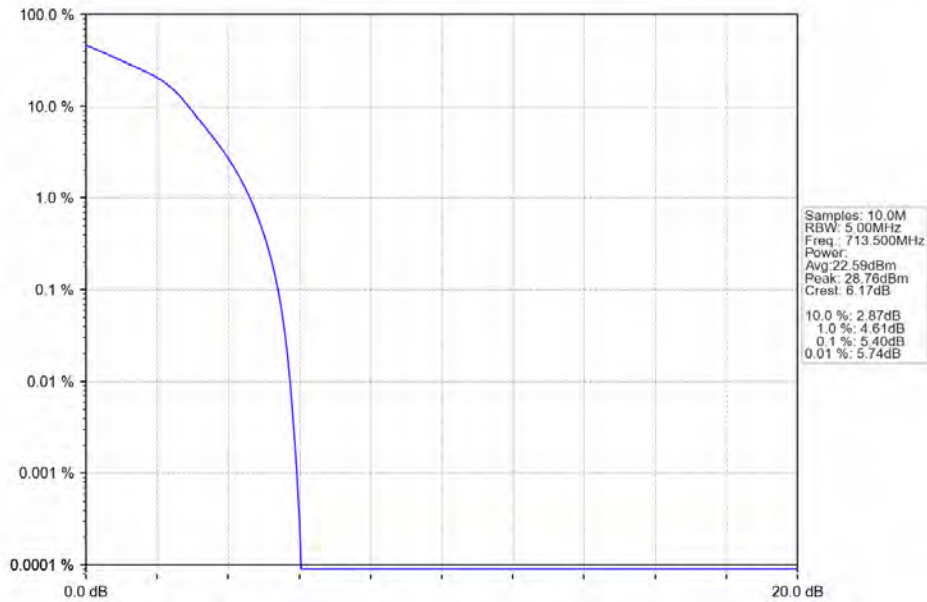
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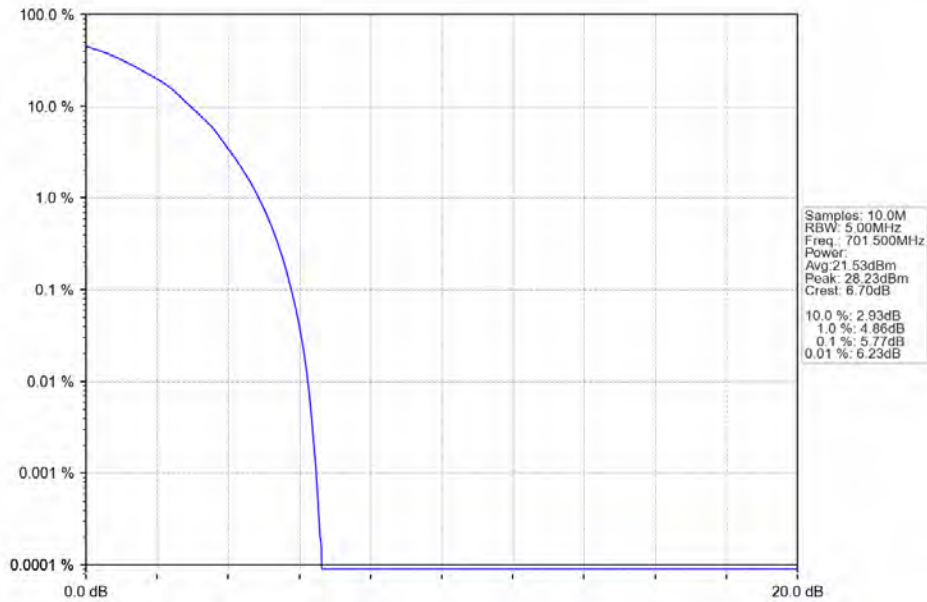
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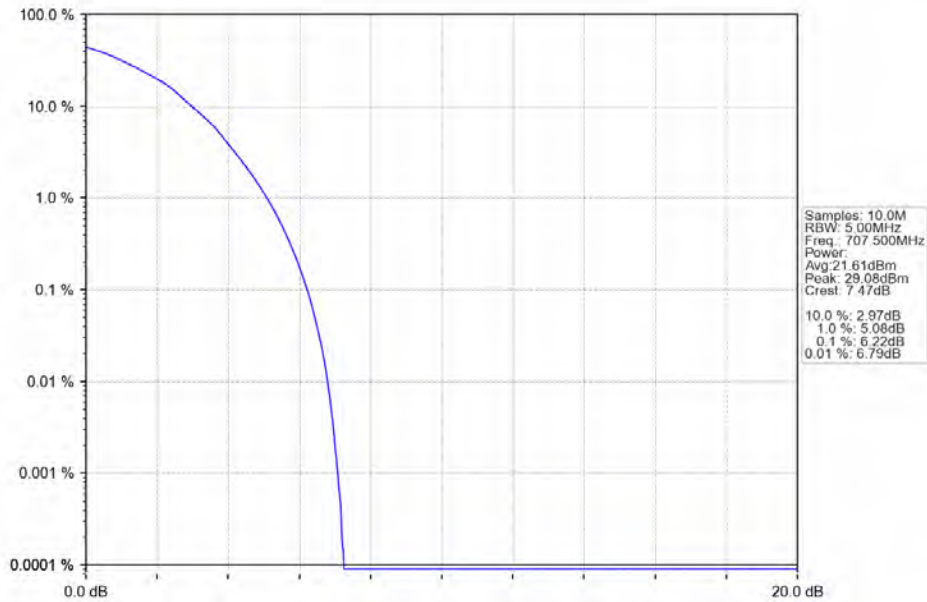


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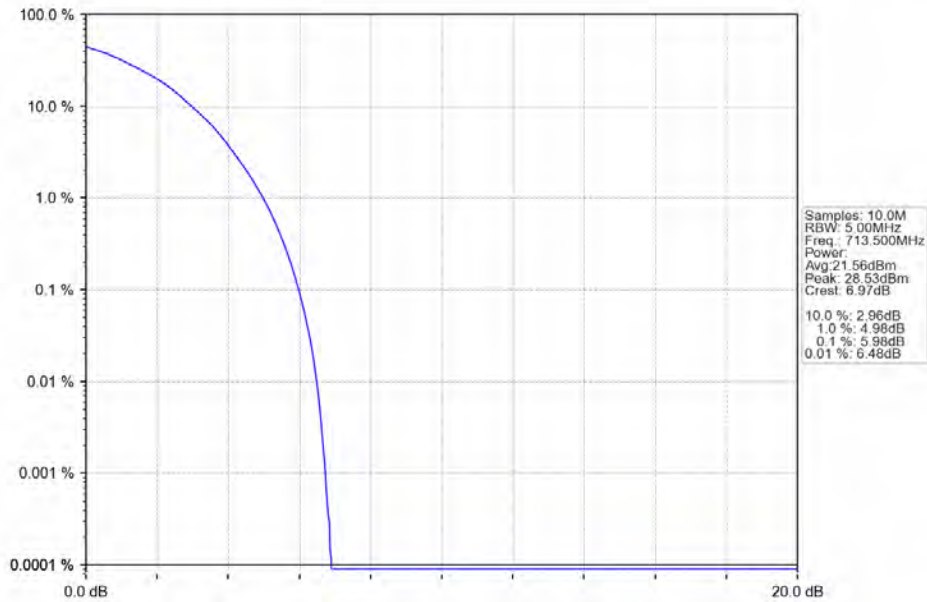
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4.4 B12_10MHz

4.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.62	<=13	Pass
	707.5	50	0	4.80	<=13	Pass
	711	50	0	4.69	<=13	Pass
16QAM	704	50	0	5.41	<=13	Pass
	707.5	50	0	5.62	<=13	Pass
	711	50	0	5.54	<=13	Pass
64QAM	704	50	0	5.96	<=13	Pass
	707.5	50	0	6.16	<=13	Pass
	711	50	0	6.09	<=13	Pass

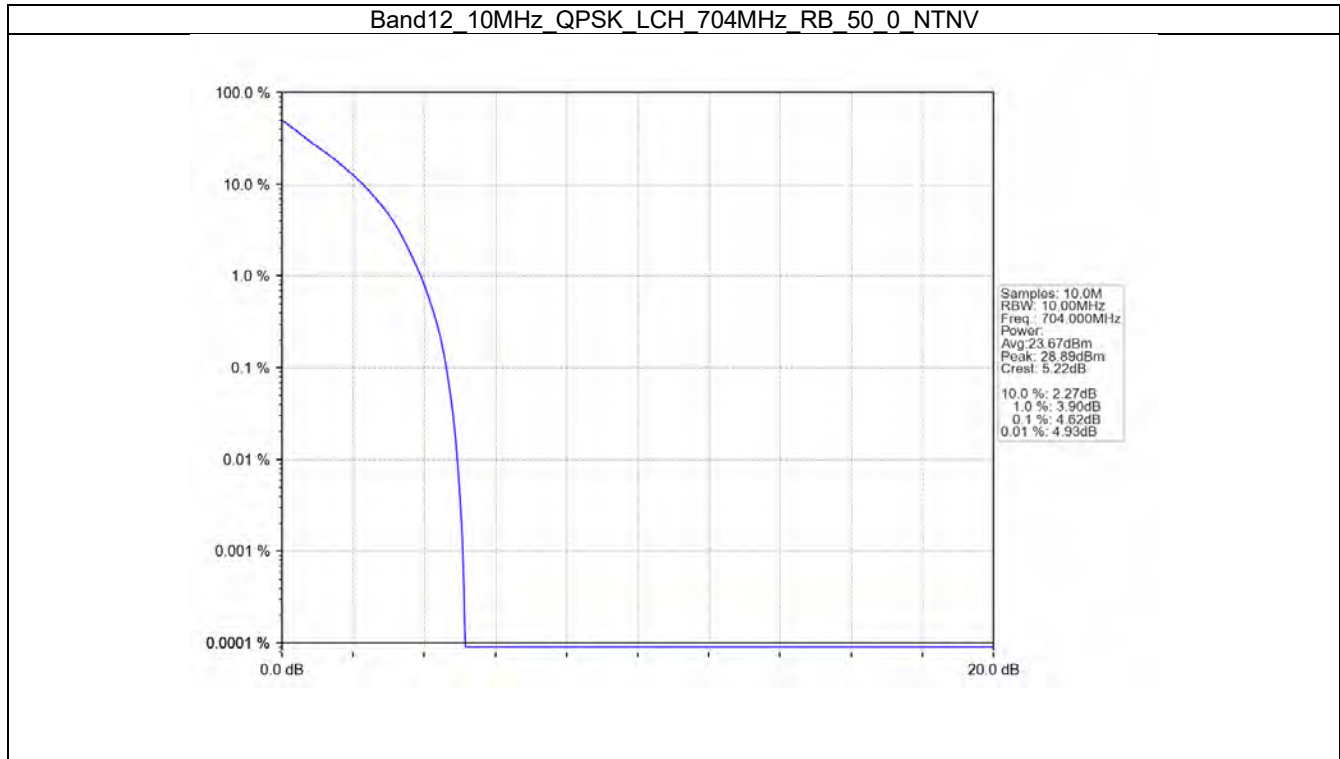


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4.4.2 Test Graph



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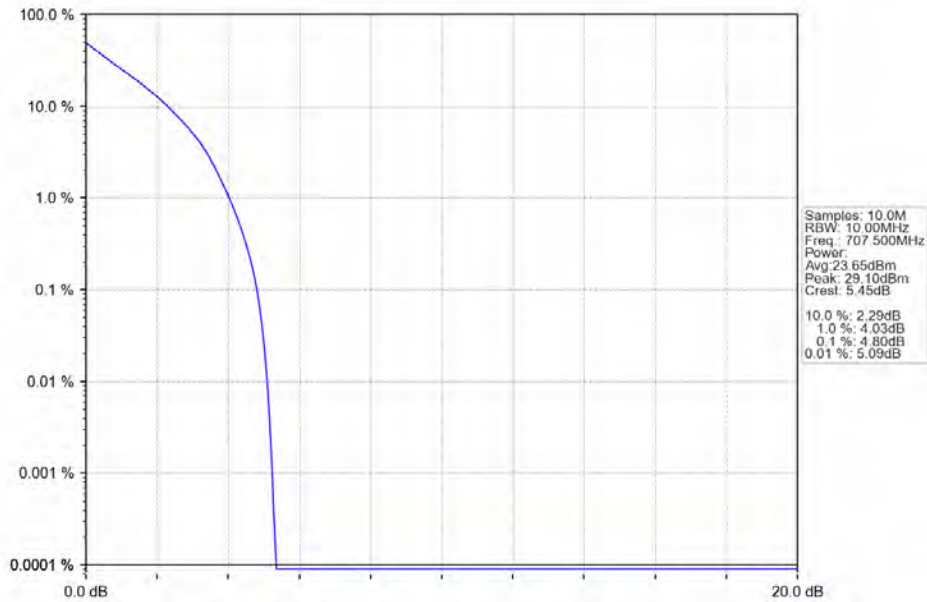
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Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

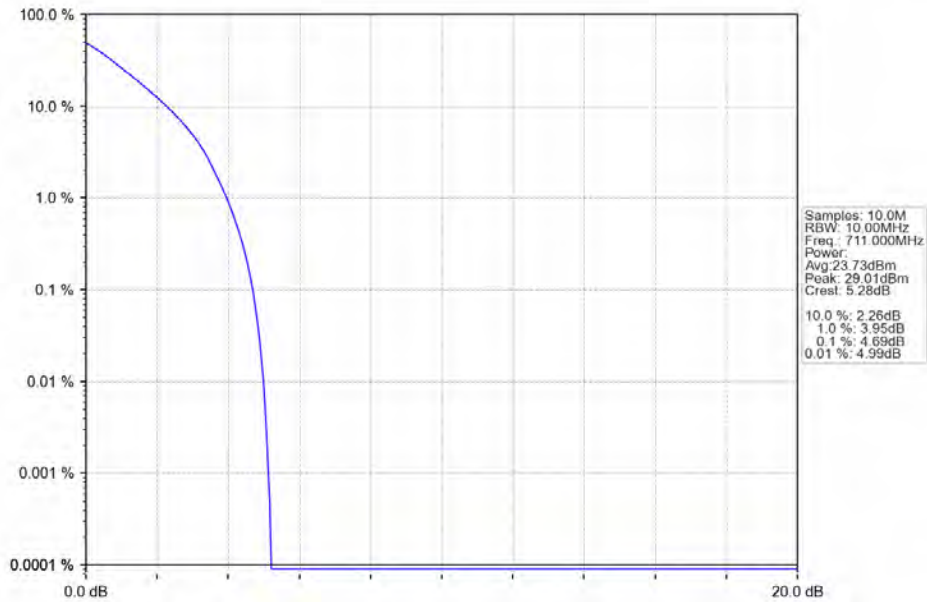


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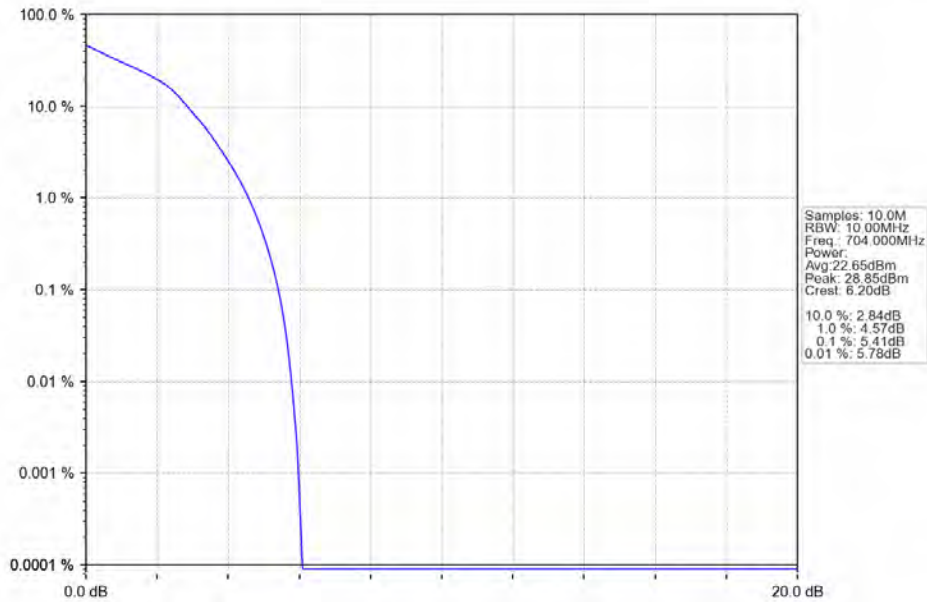


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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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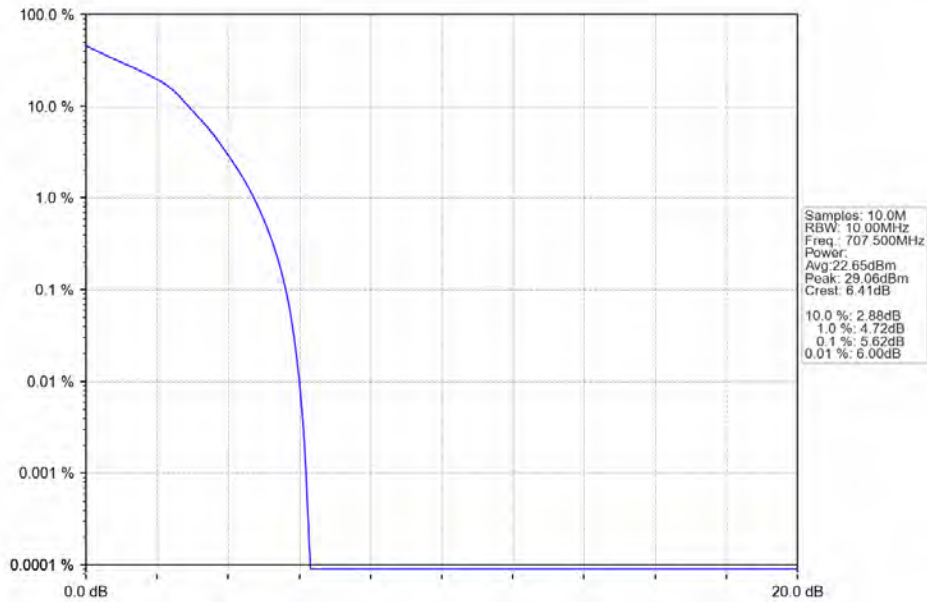
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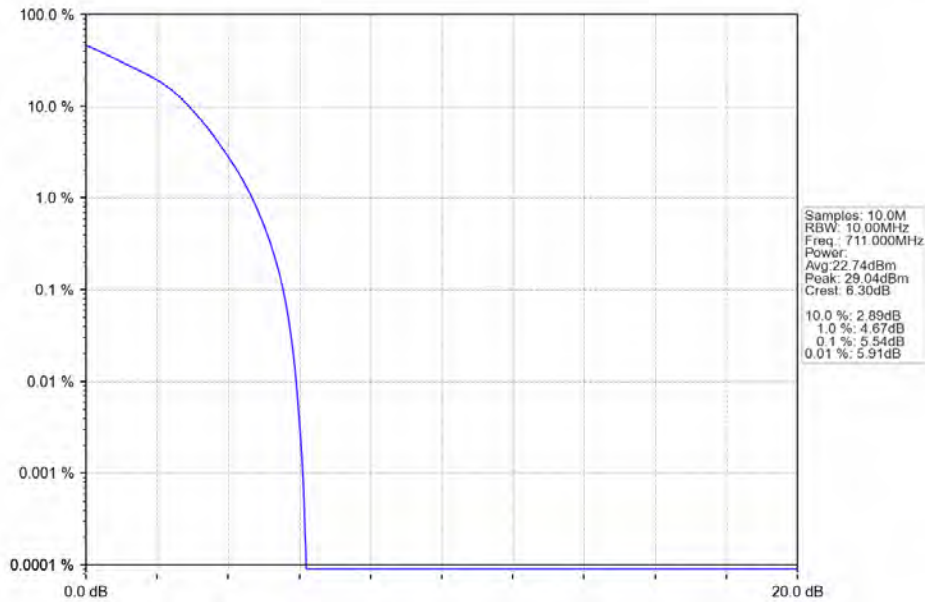
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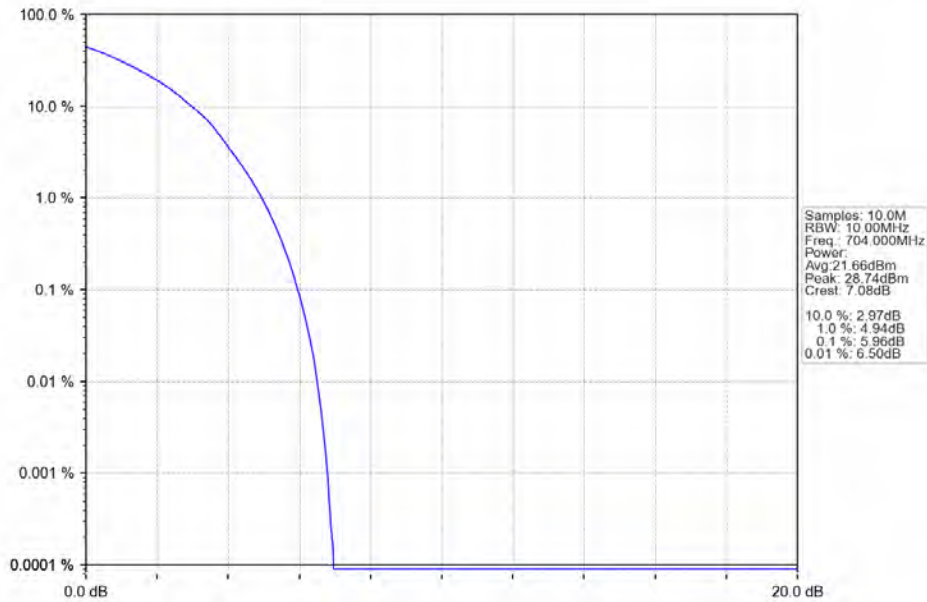
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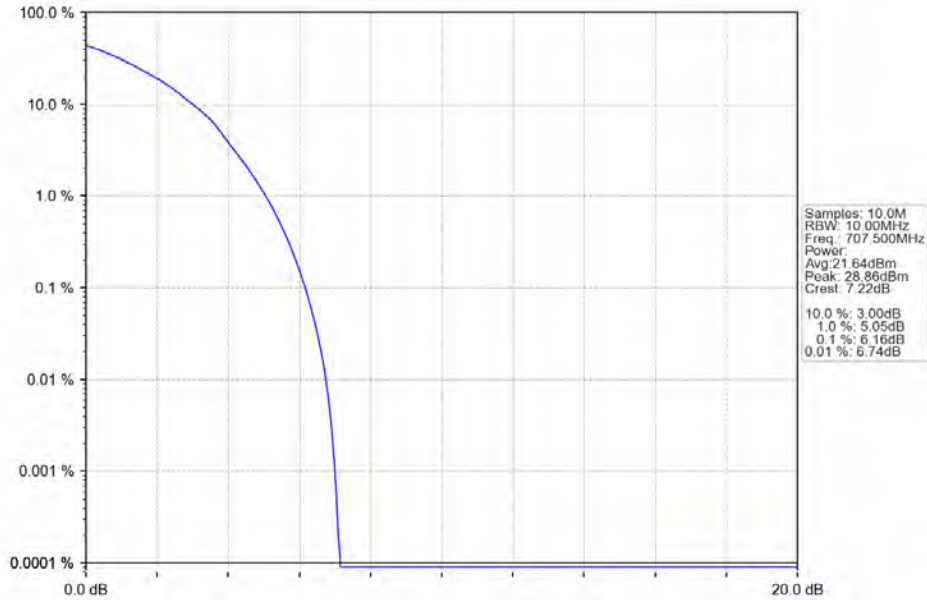


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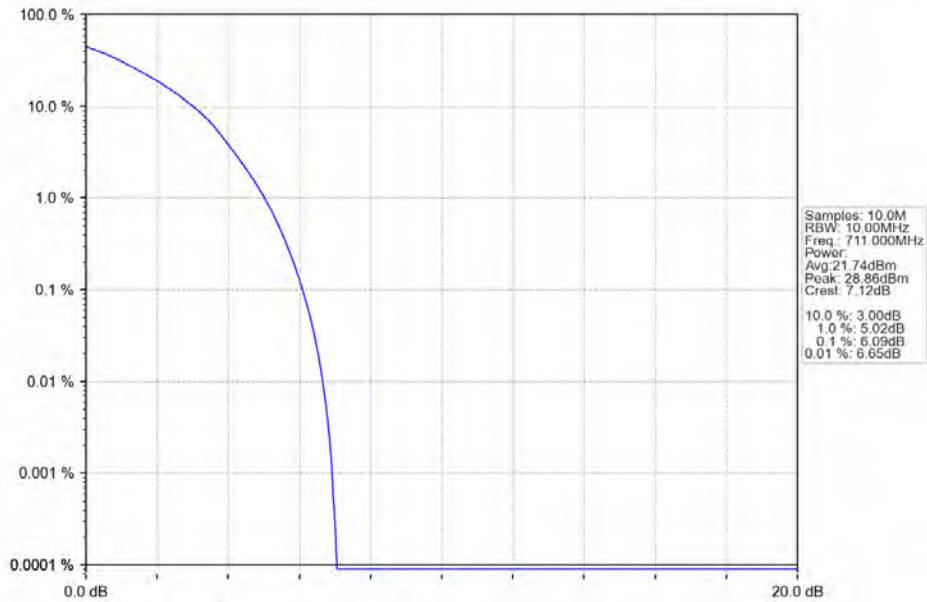
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5. Spurious Emission & Band Edges

5.1 B12_1.4MHz

5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
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
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
64QAM	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
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass

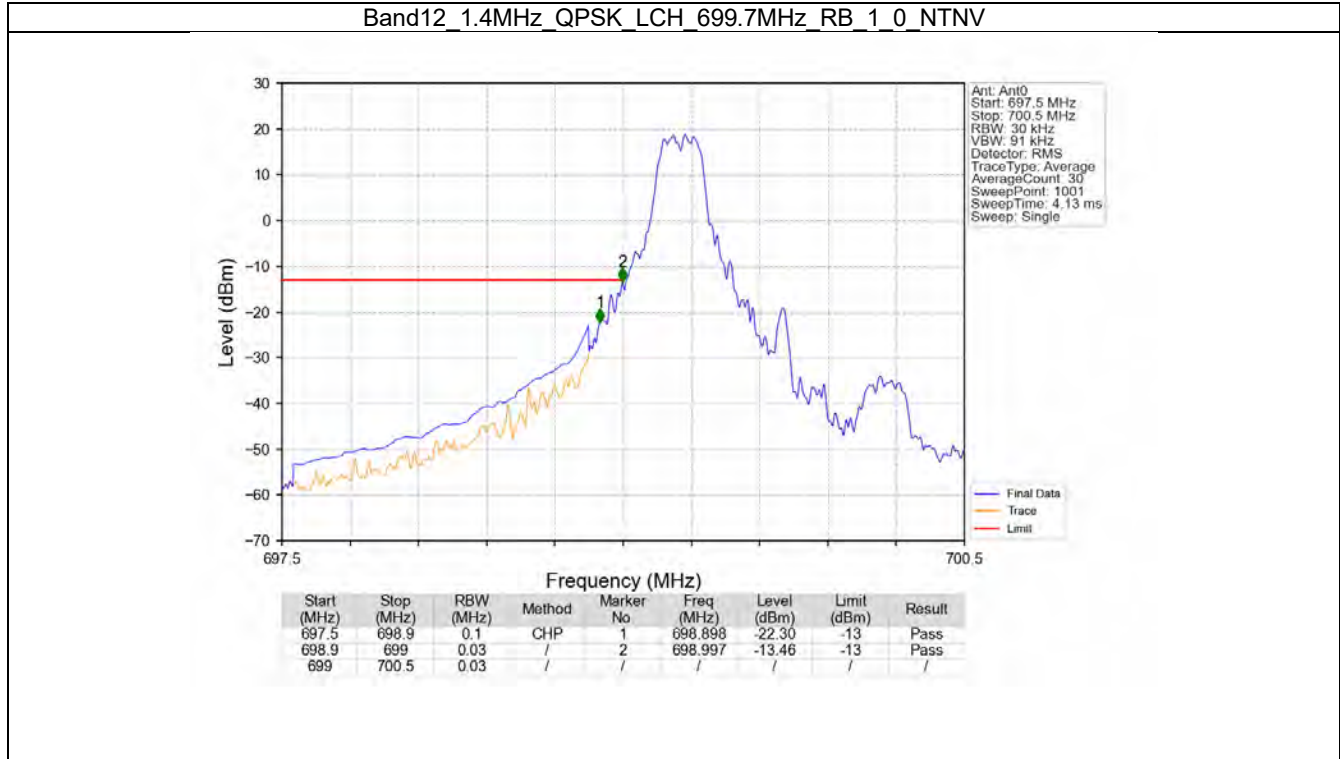


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5.1.2 Test Graph

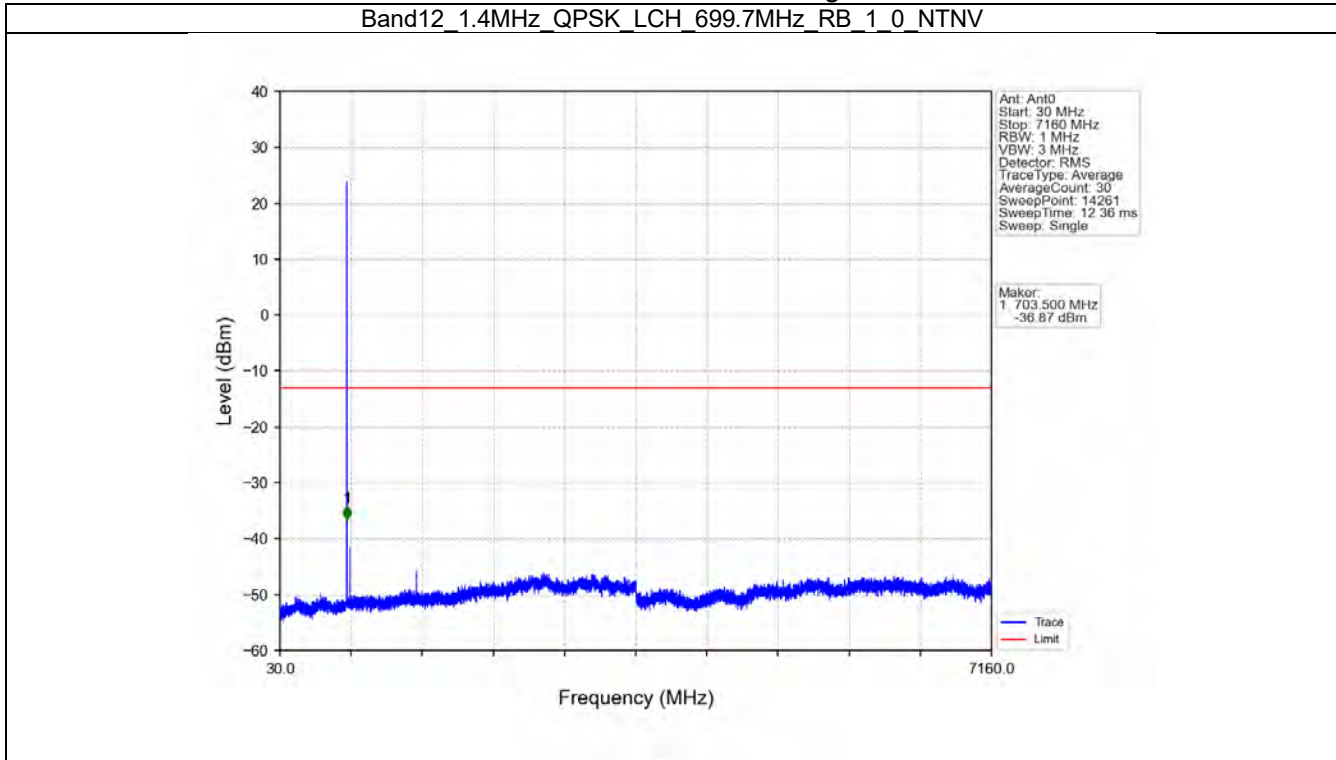


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Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



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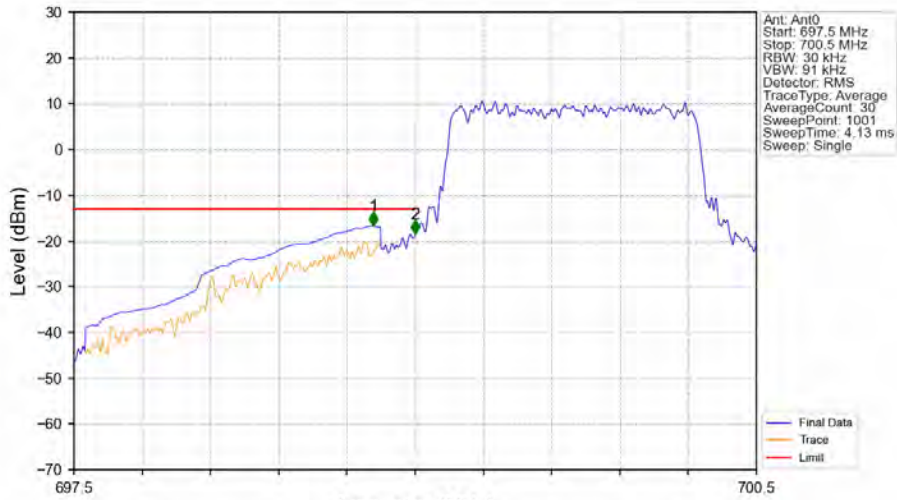
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Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.817	-16.72	-13	Pass
698.9	699	0.03	/	2	699.000	-18.45	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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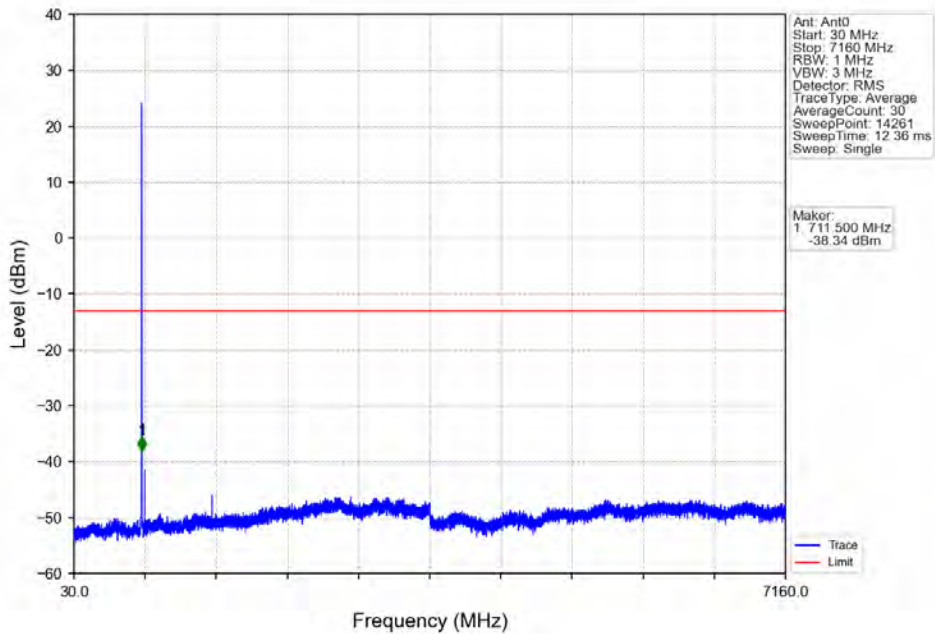
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Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



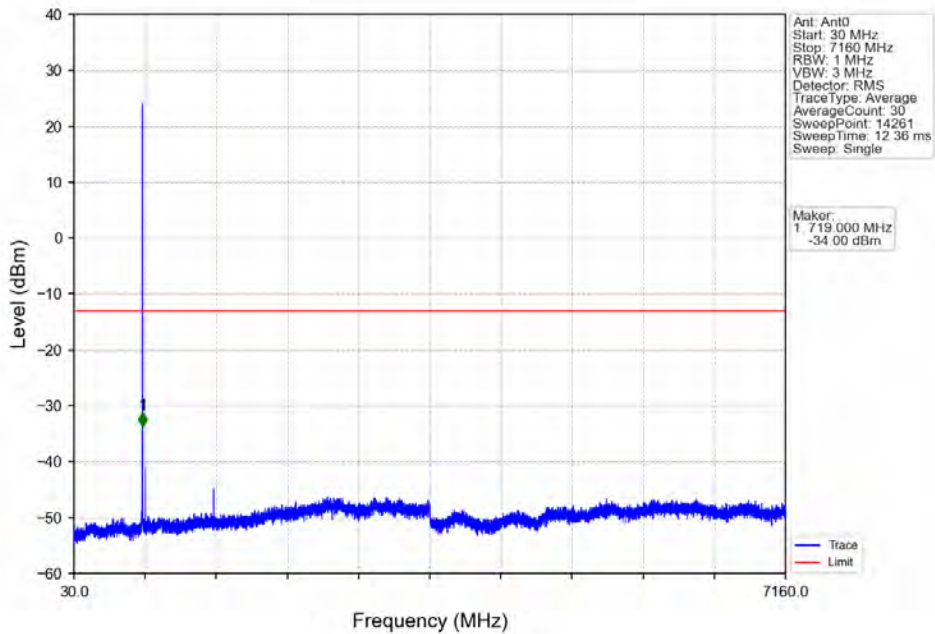
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



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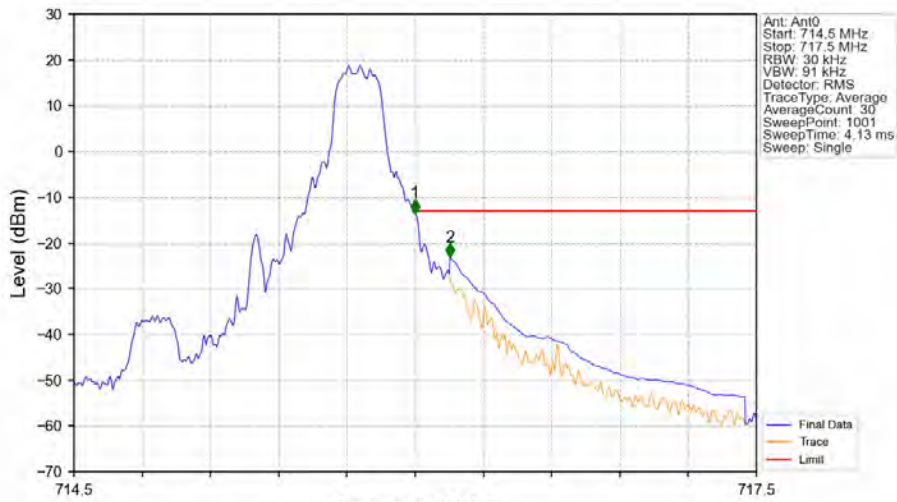
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-13.49	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-23.16	-13	Pass



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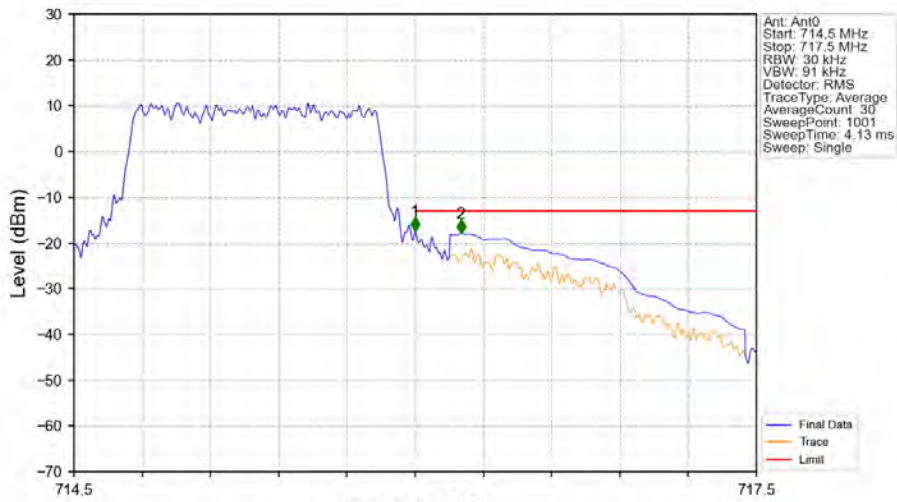
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-17.48	-13	Pass
716.1	717.5	0.1	CHP	2	716.201	-17.98	-13	Pass



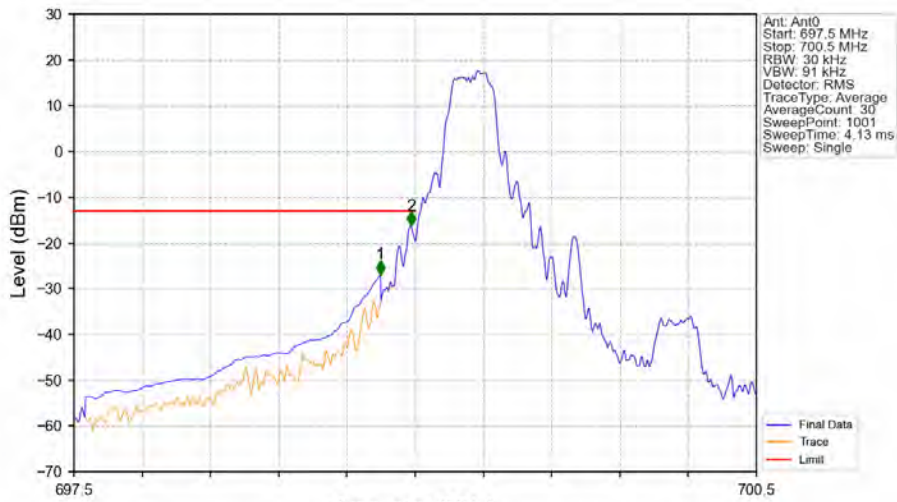
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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-26.88	-13	Pass
698.9	699	0.03	/	2	698.982	-16.24	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

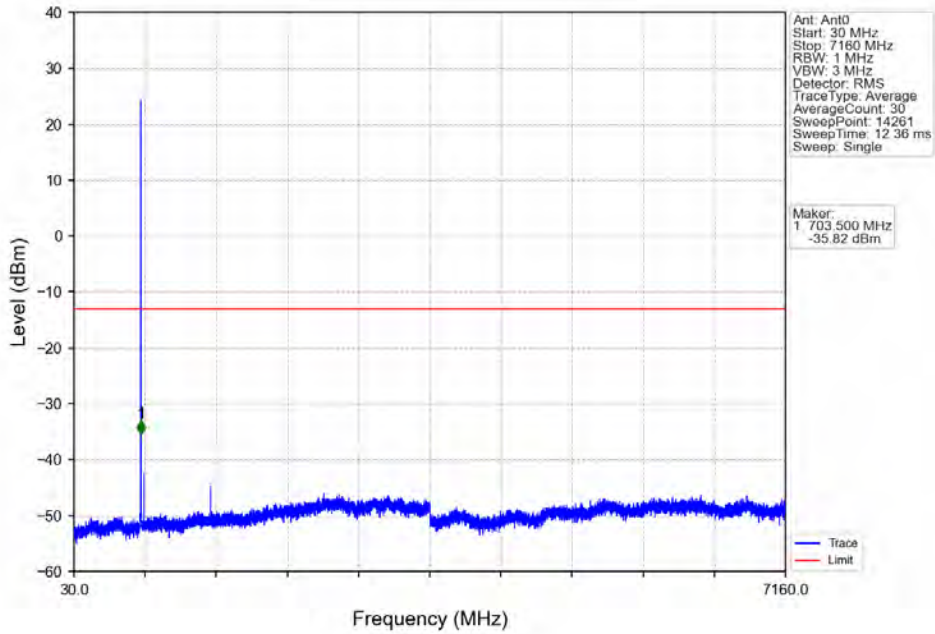


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

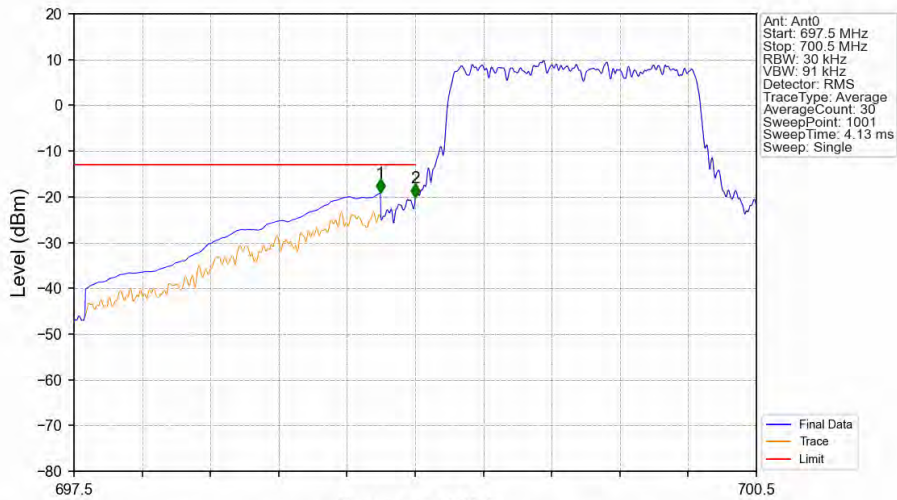


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-19.18	-13	Pass
698.9	699	0.03	/	2	699.000	-20.19	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

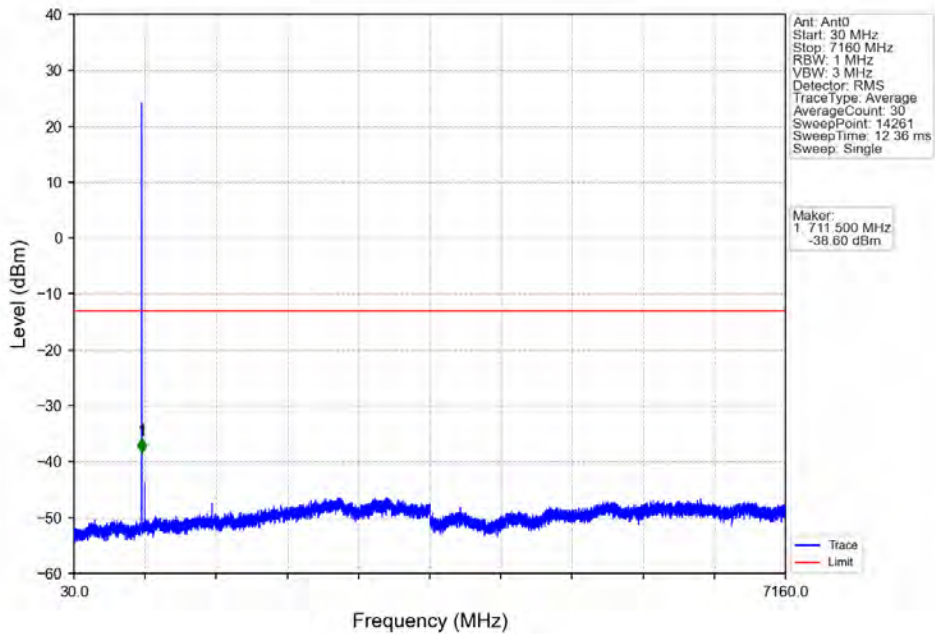


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Band12 1.4MHz 16QAM MCH 707.5MHz_RB_1_0_NTNV

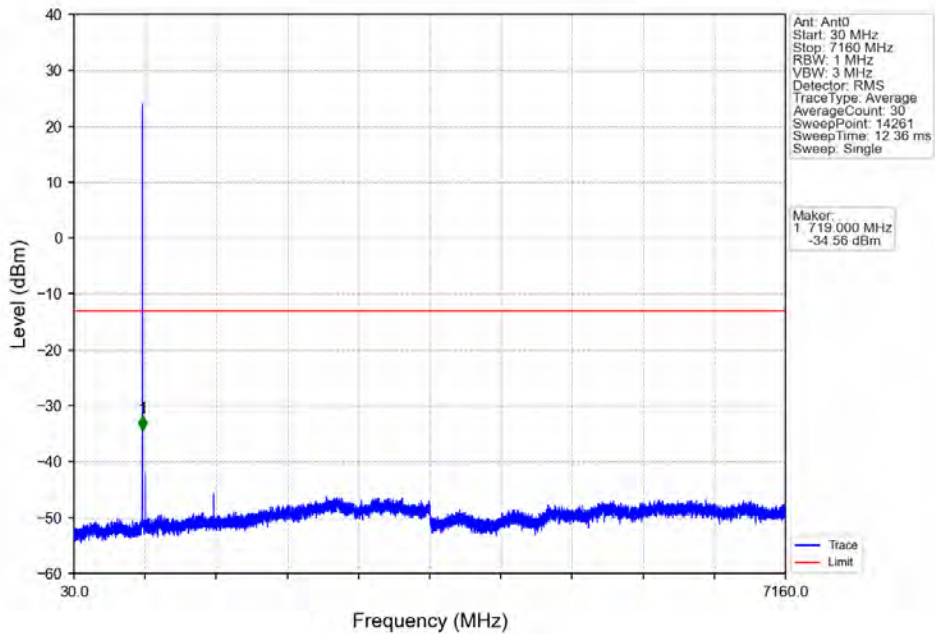


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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_1_0 NTN



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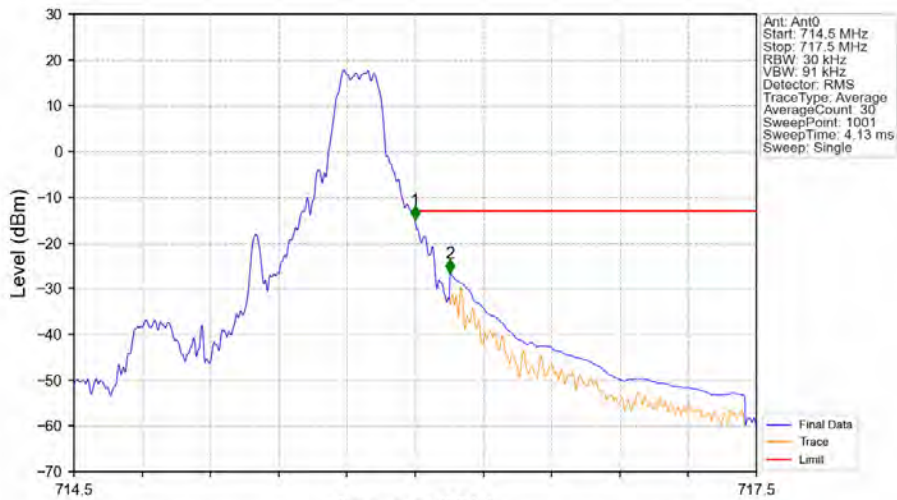
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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-15.05	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-26.56	-13	Pass



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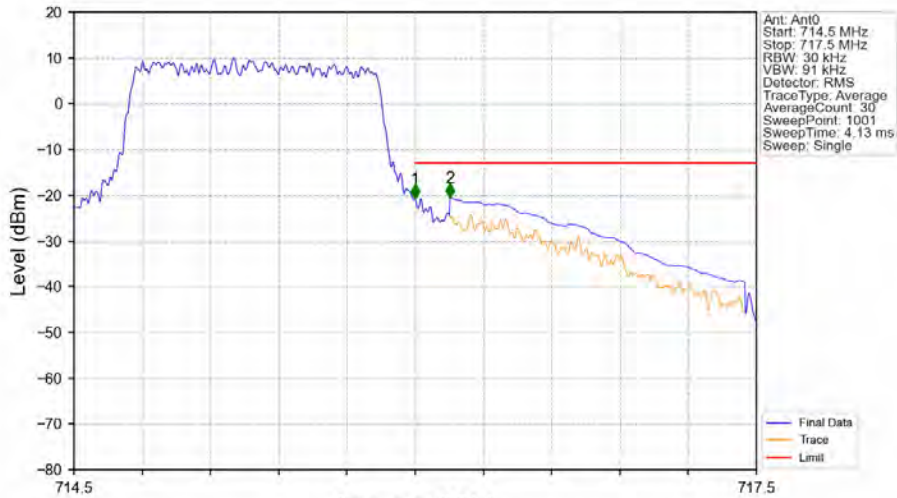
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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-20.76	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-20.59	-13	Pass



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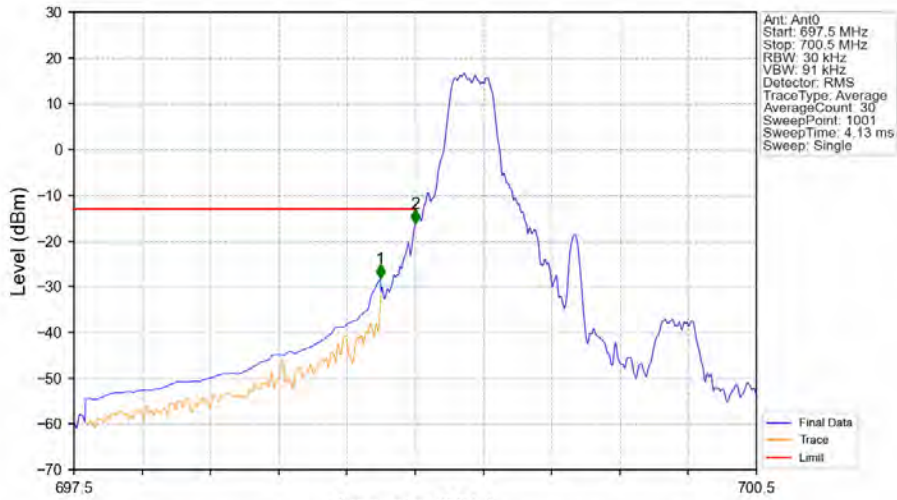
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Report No.: SEWM2311000454RG01

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Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-28.26	-13	Pass
698.9	699	0.03	/	2	699.000	-16.28	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

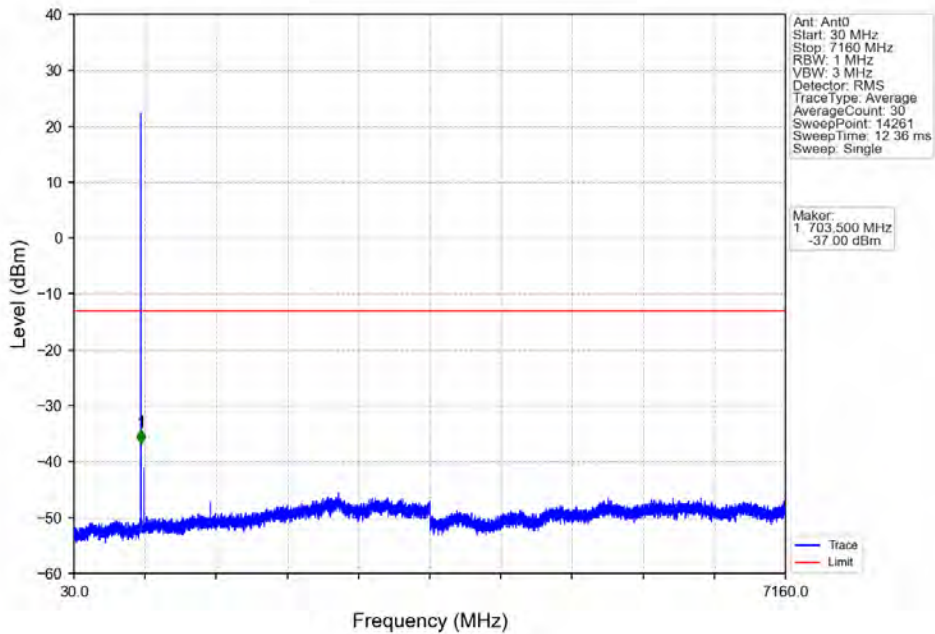


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Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_1_0_NTNV

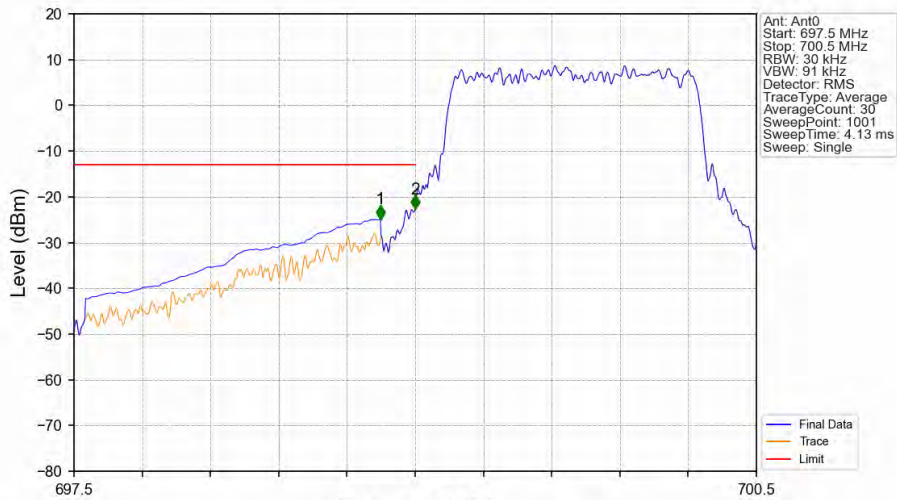


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Band12_1.4MHz_64QAM_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-24.91	-13	Pass
698.9	699	0.03	/	2	699.000	-22.75	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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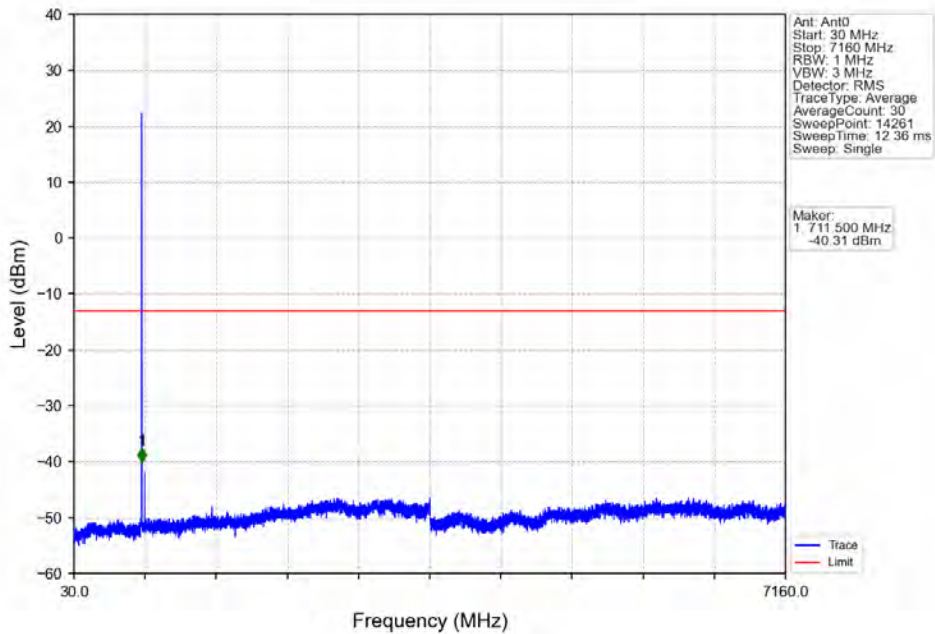
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Report No.: SEWM2311000454RG01

Rev.: 01

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Band12 1.4MHz 64QAM MCH 707.5MHz_RB_1_0_NTNV



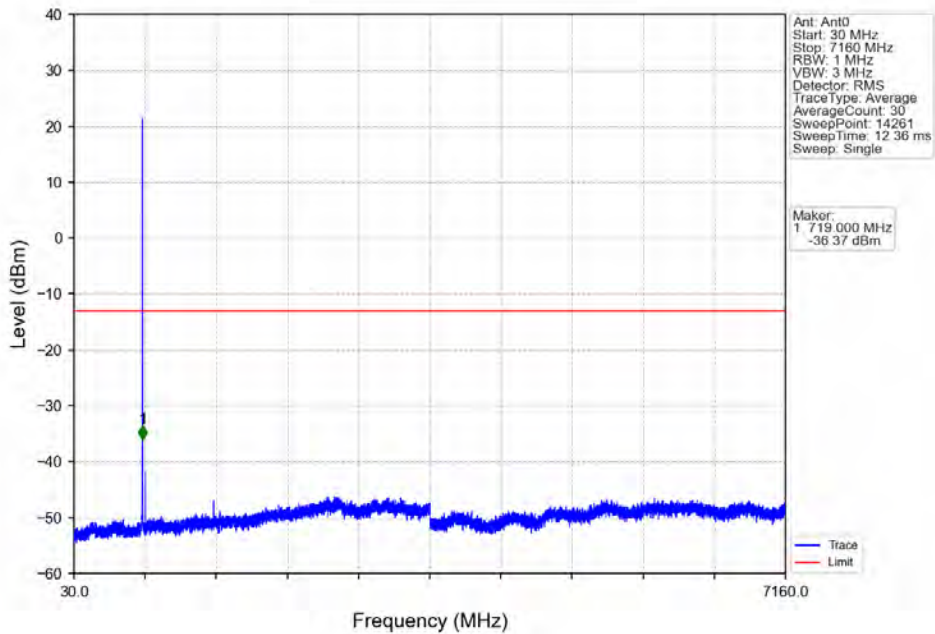
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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_1_0 NTN

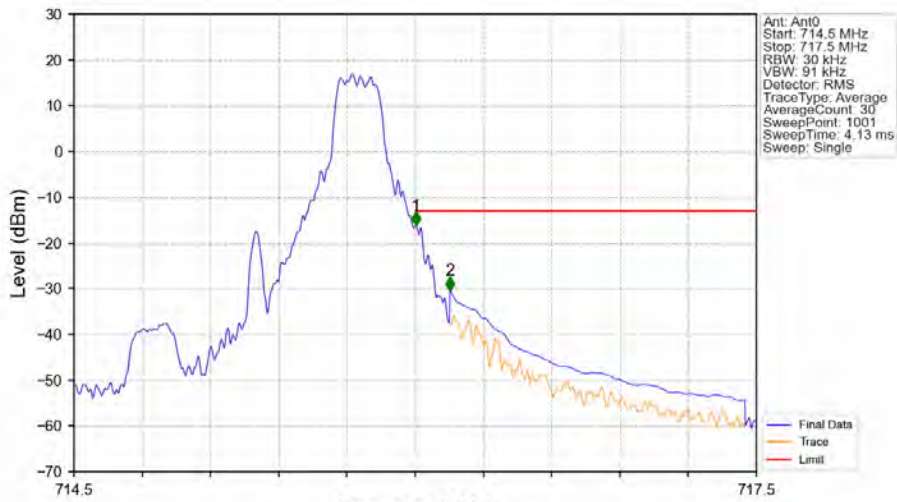


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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.003	-16.22	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-30.40	-13	Pass

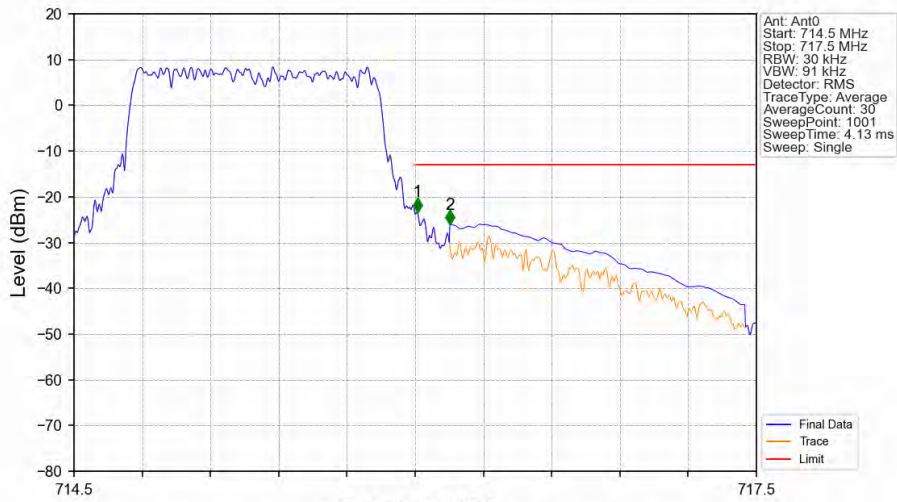


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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.009	-23.31	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-25.99	-13	Pass



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5.2 B12_3MHz

5.2.1 Test Result

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
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
64QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

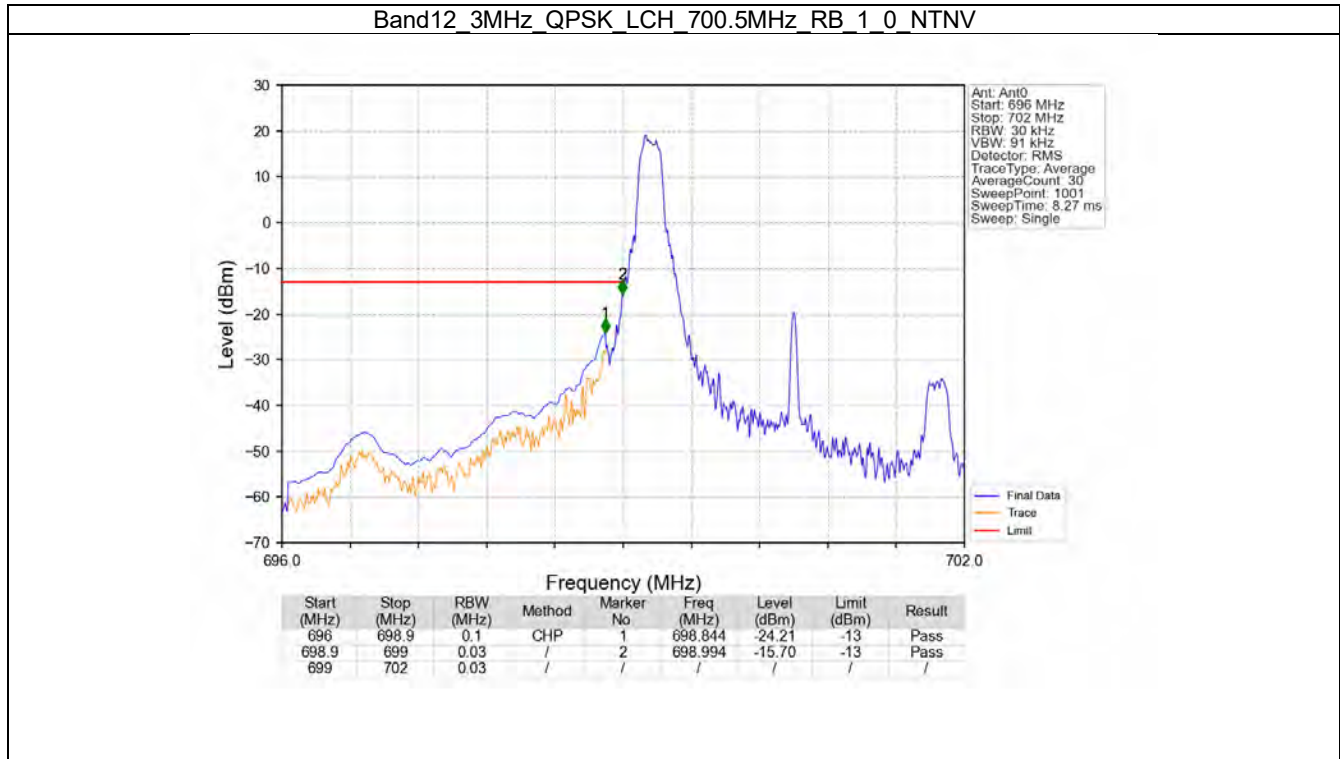


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5.2.2 Test Graph

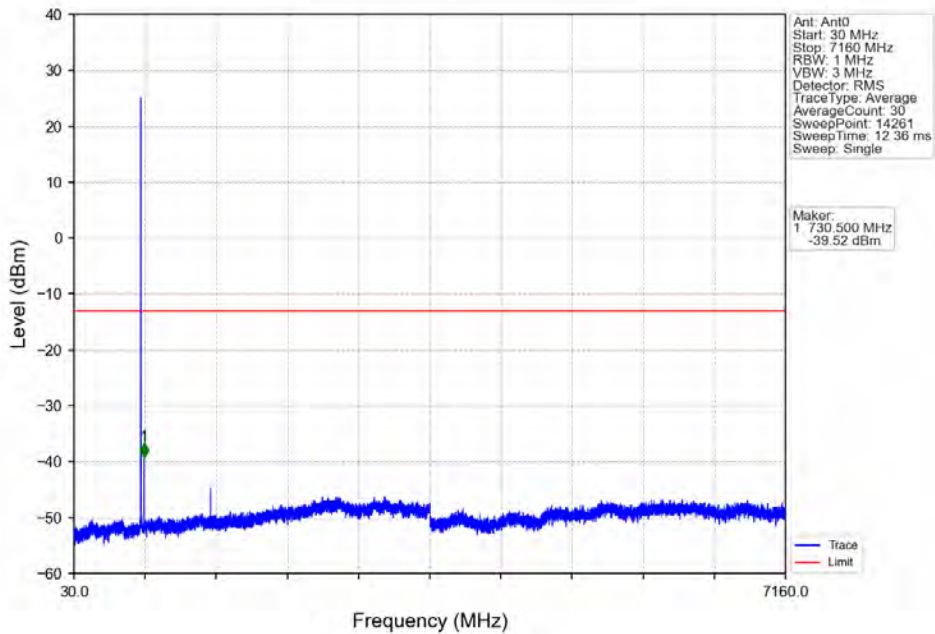


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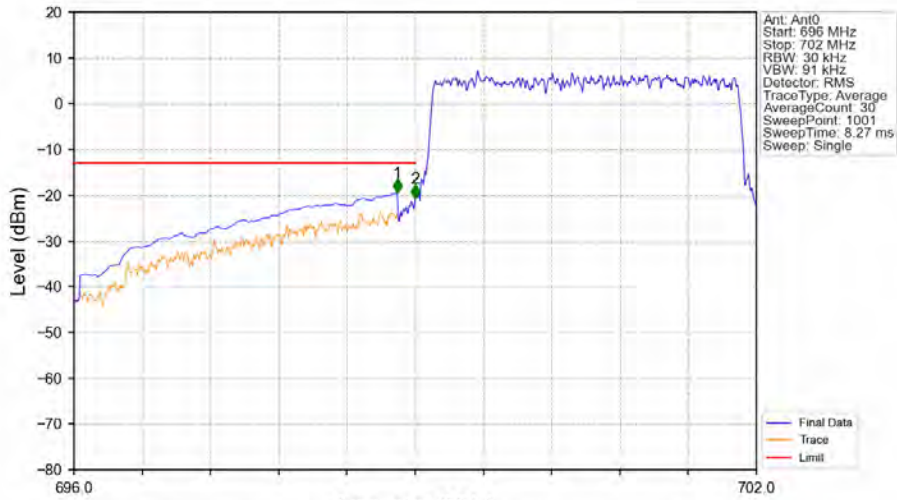
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-19.54	-13	Pass
698.9	699	0.03	/	2	699.000	-20.79	-13	Pass
699	702	0.03	/	/	/	/	/	/

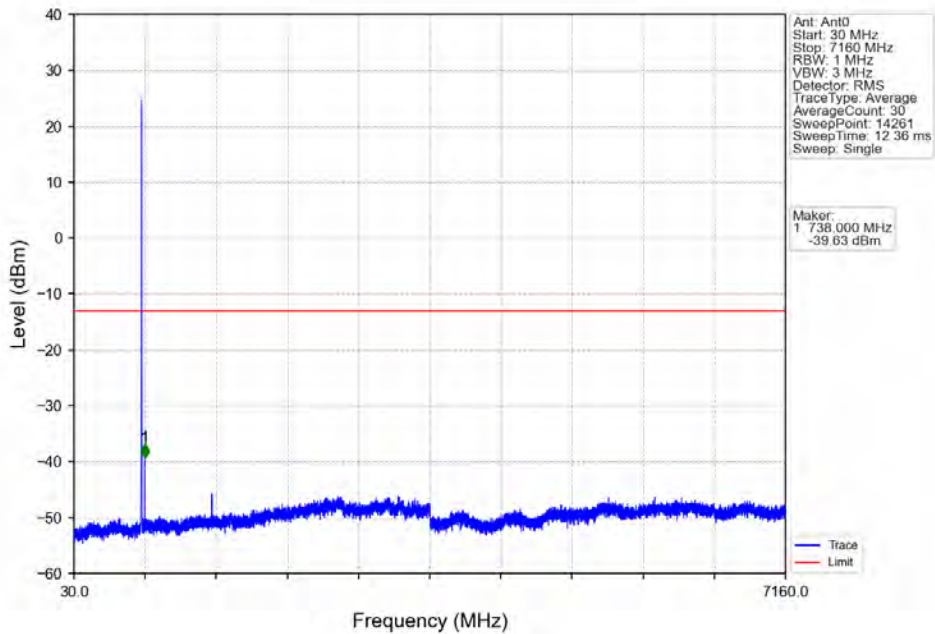


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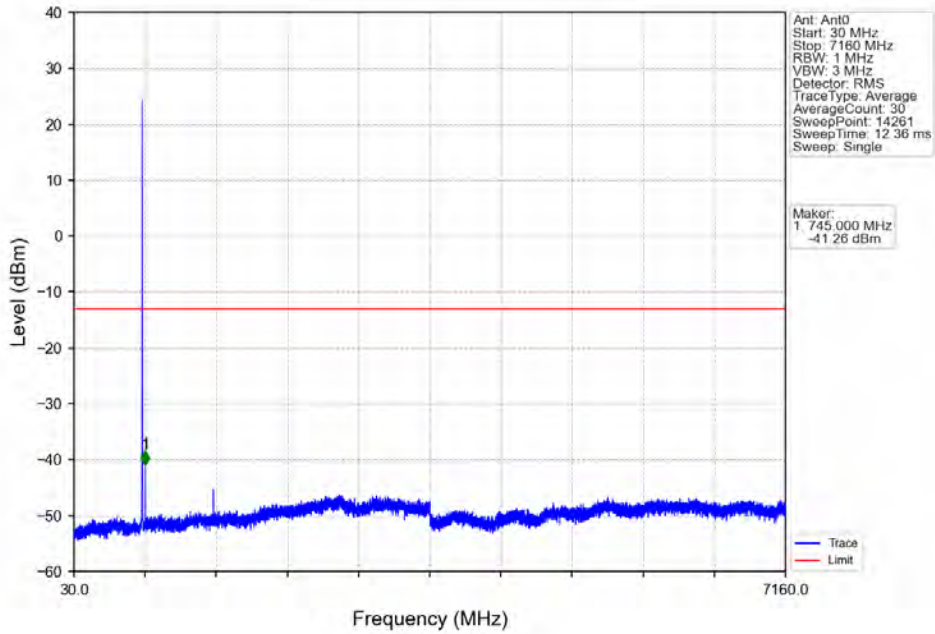
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTN



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Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



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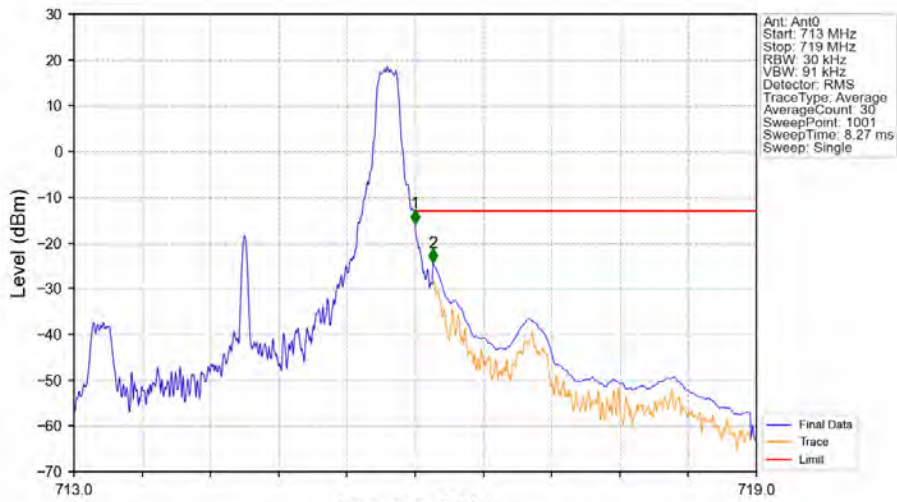
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-15.79	-13	Pass
716.1	719	0.1	CHP	2	716.156	-24.34	-13	Pass

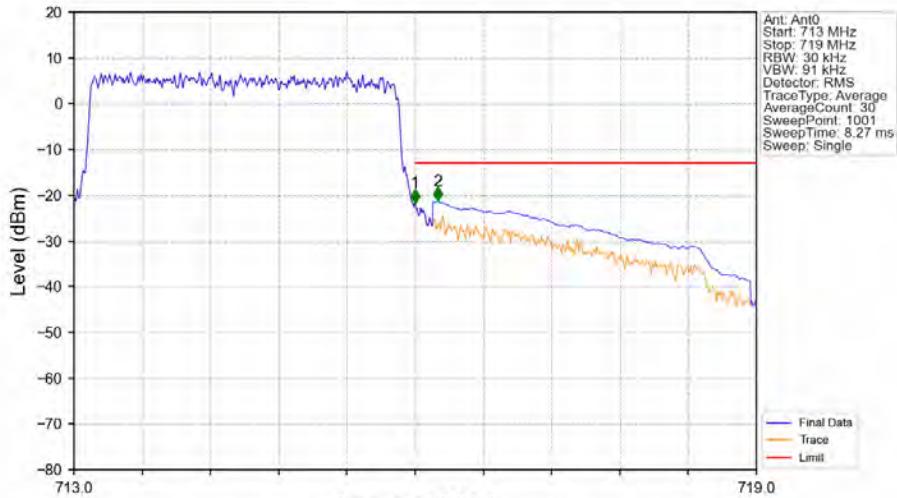


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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-21.74	-13	Pass
716.1	719	0.1	CHP	2	716.198	-21.35	-13	Pass

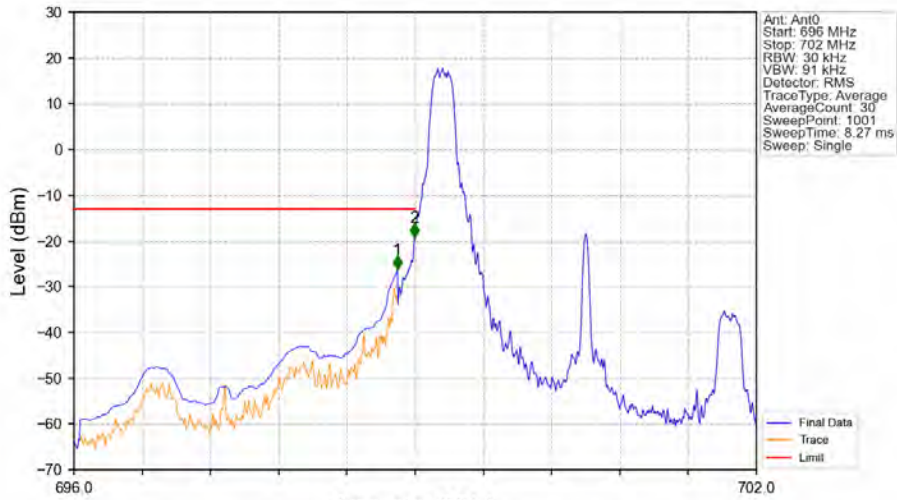


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Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-26.24	-13	Pass
698.9	699	0.03	/	2	698.994	-19.17	-13	Pass
699	702	0.03	/	/	/	/	/	/

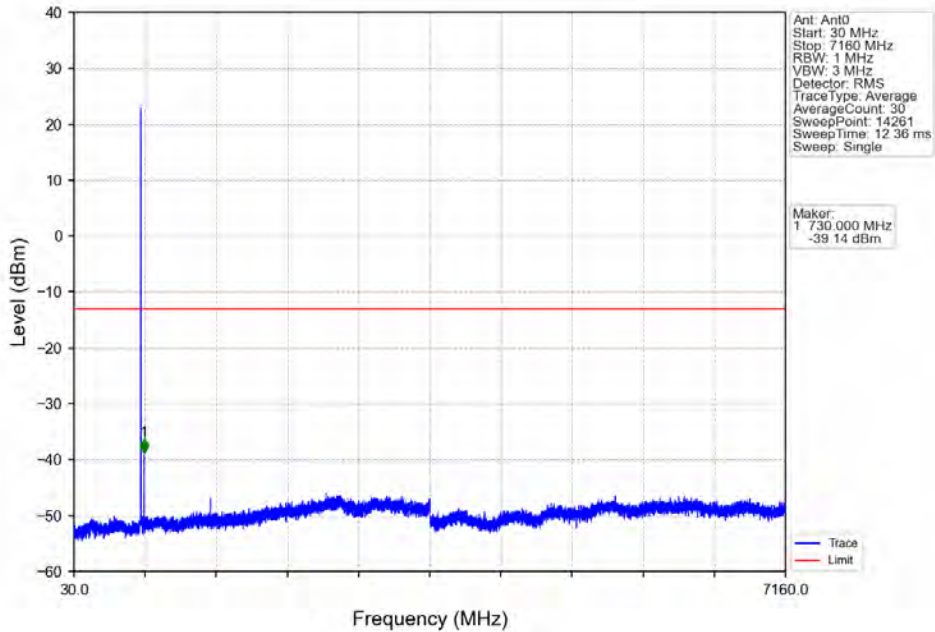


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Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

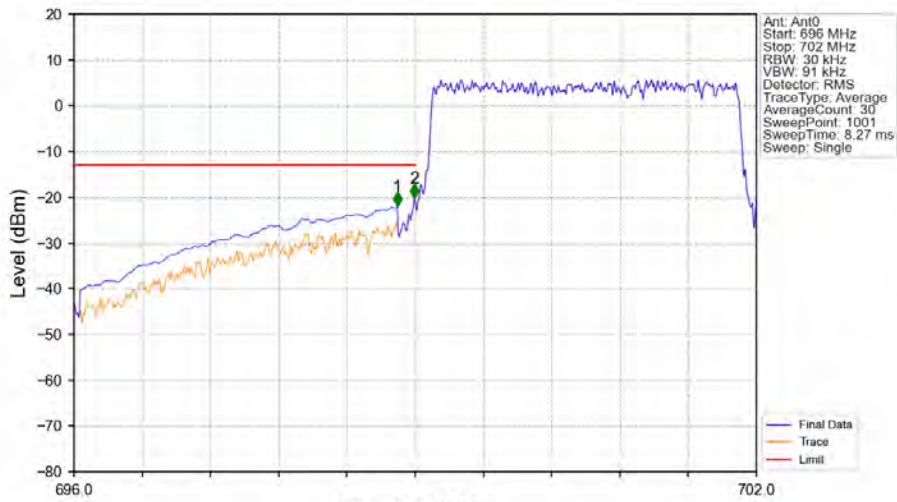


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Band12_3MHz_16QAM LCH 700.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-22.04	-13	Pass
698.9	699	0.03	/	2	698.994	-20.20	-13	Pass
699	702	0.03	/	/	/	/	/	/

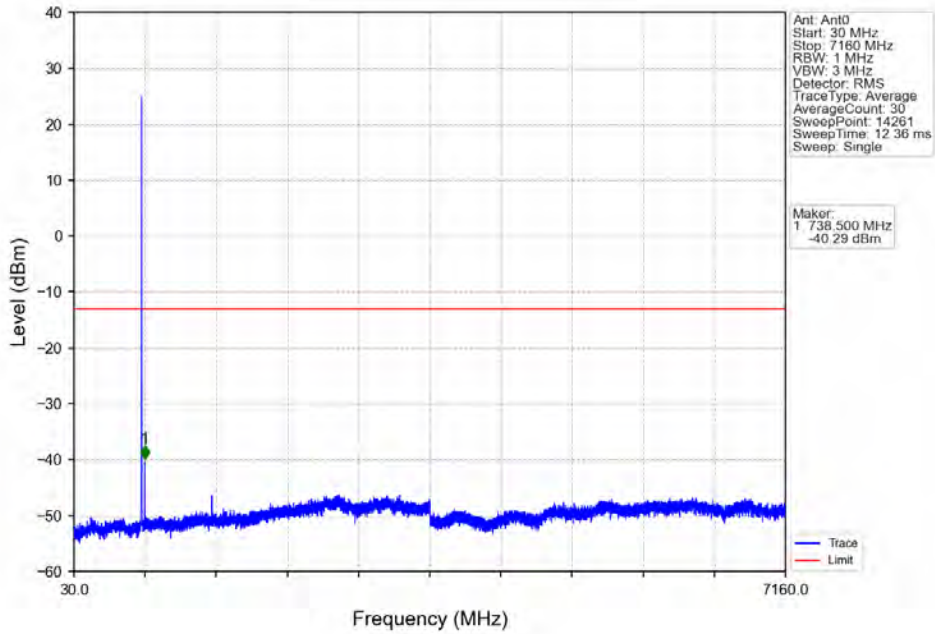


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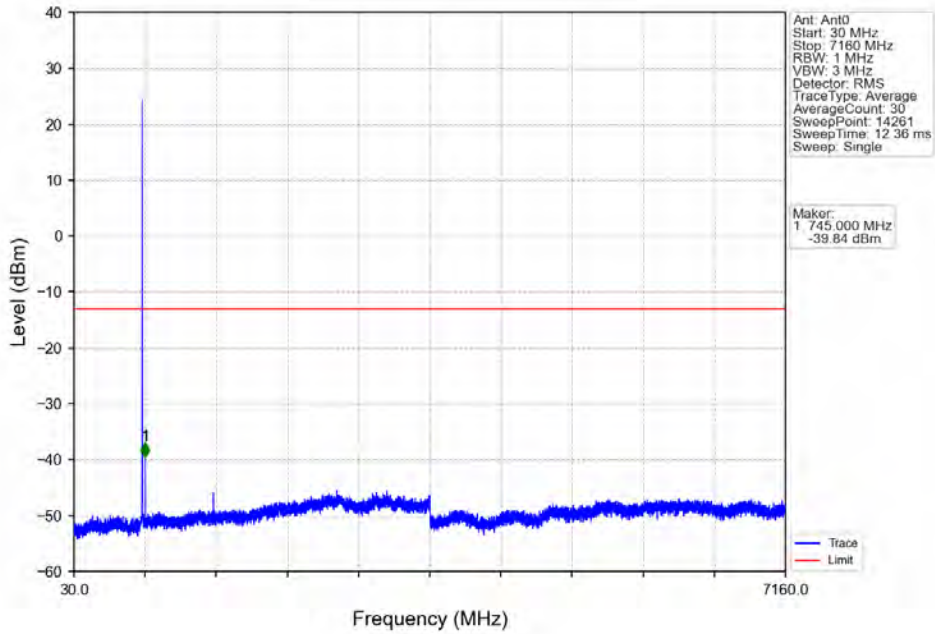


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Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



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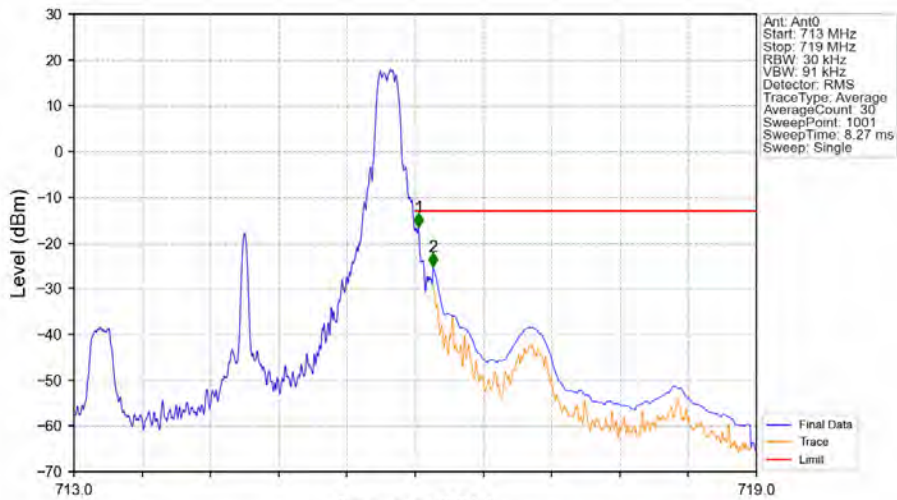
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Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-16.63	-13	Pass
716.1	719	0.1	CHP	2	716.156	-25.25	-13	Pass



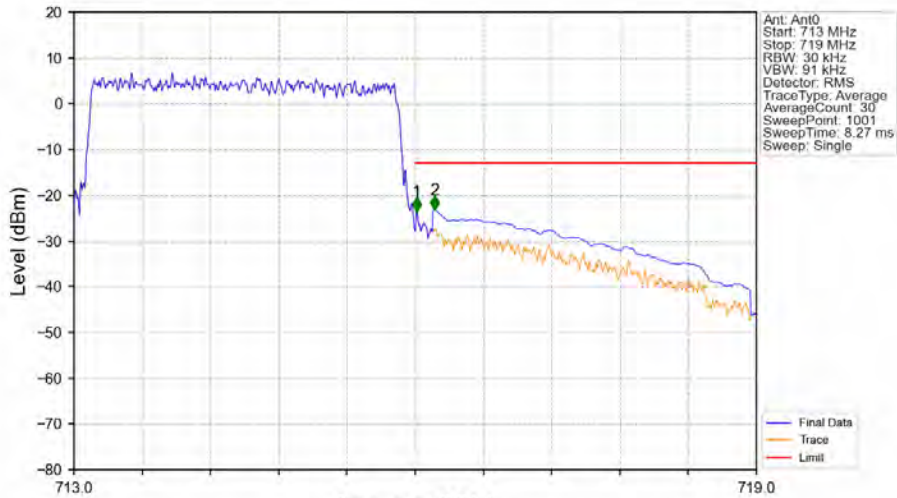
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Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-23.63	-13	Pass
716.1	719	0.1	CHP	2	716.168	-23.25	-13	Pass

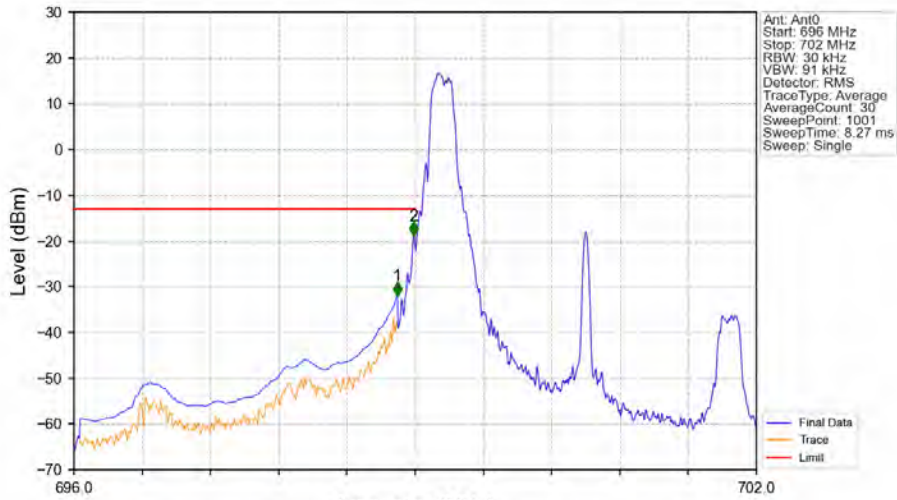


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Band12_3MHz_64QAM_LCH_700.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-31.99	-13	Pass
698.9	699	0.03	/	2	698.988	-18.90	-13	Pass
699	702	0.03	/	/	/	/	/	/

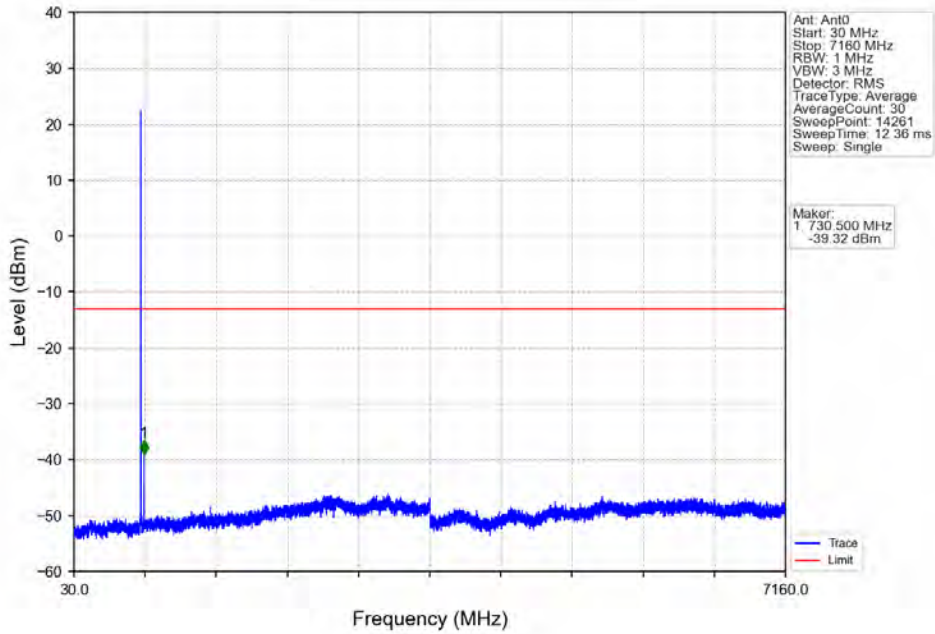


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Band12_3MHz_64QAM_LCH_700.5MHz_RB_1_0_NTNV

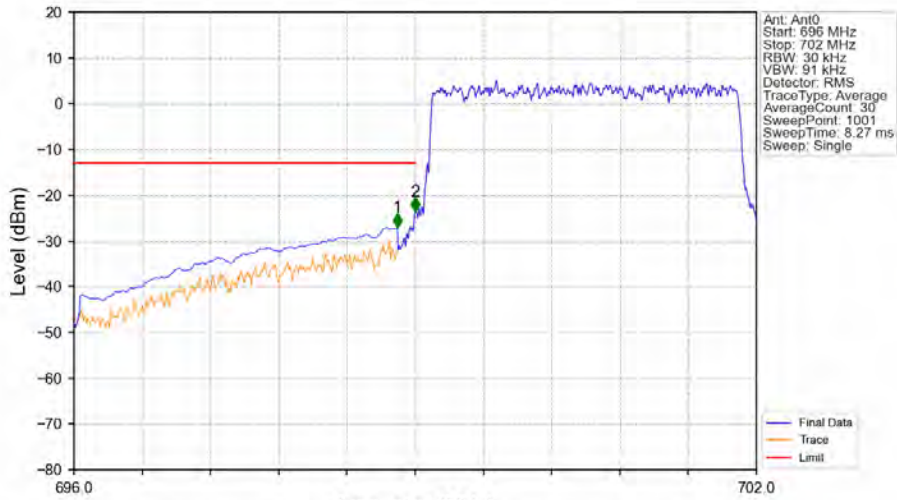


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Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-27.01	-13	Pass
698.9	699	0.03	/	2	699.000	-23.51	-13	Pass
699	702	0.03	/	/	/	/	/	/

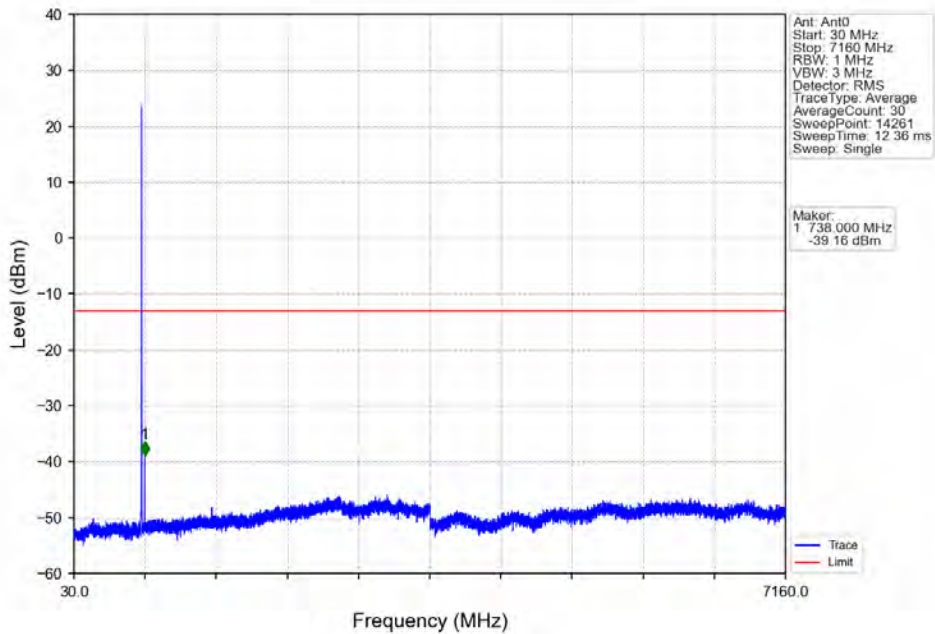


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Band12_3MHz_64QAM_MCH_707.5MHz_RB_1_0_NTNV

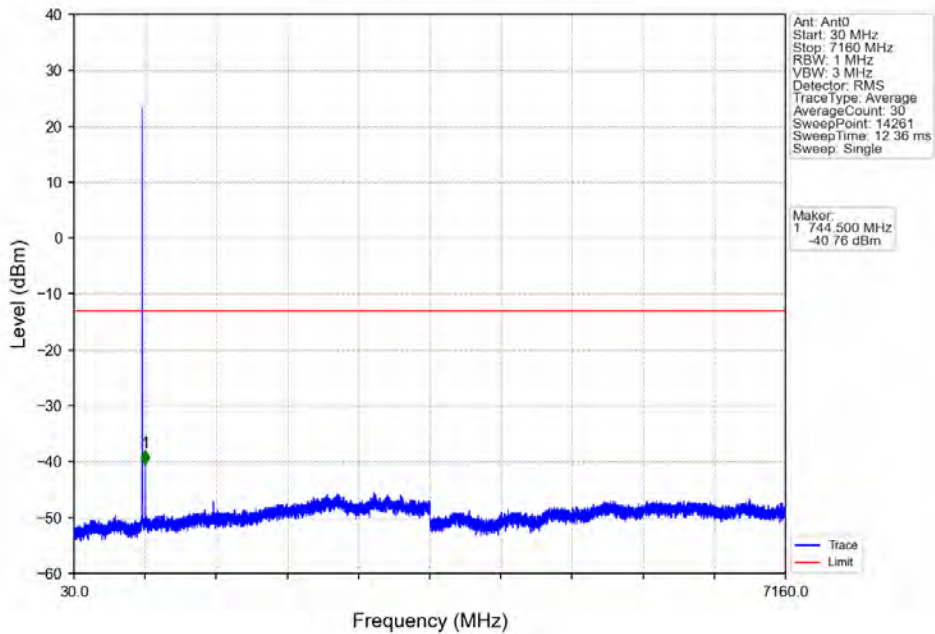


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Band12_3MHz_64QAM_HCH_714.5MHz_RB_1_0_NTNV



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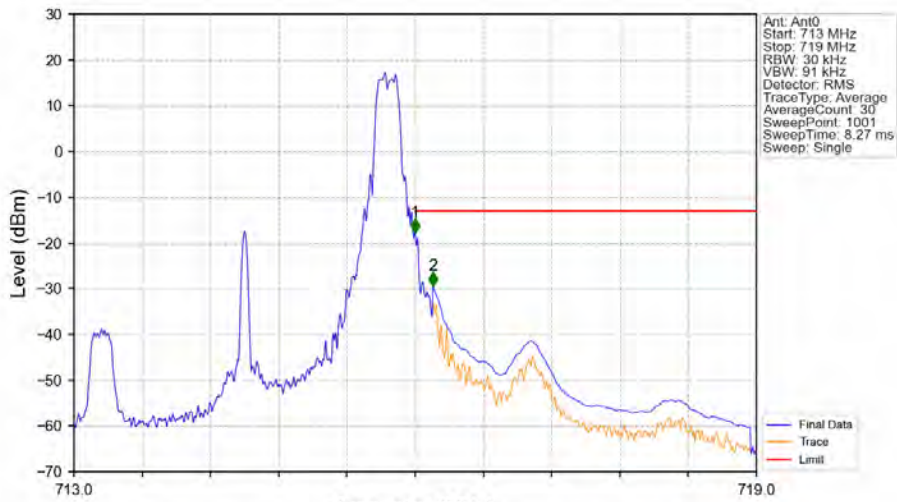
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Report No.: SEWM2311000454RG01

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Band12_3MHz_64QAM_HCH_714.5MHz_RB_1_14_NTNV



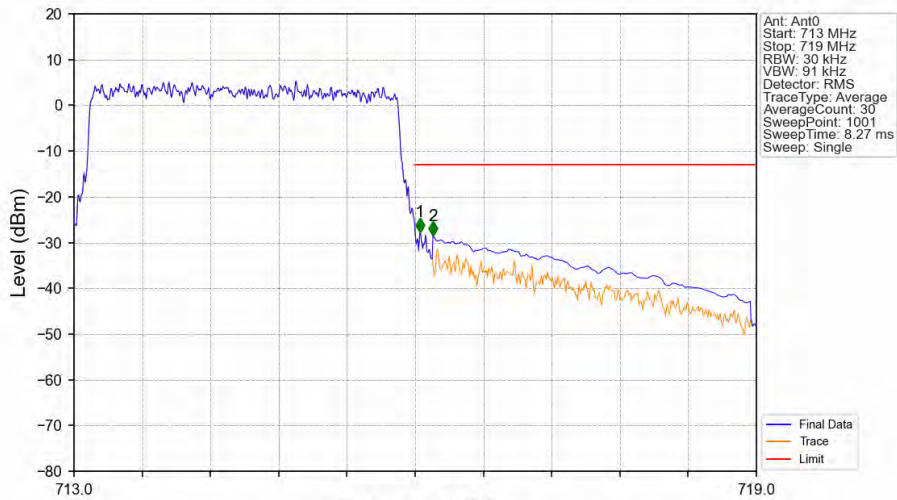
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-17.72	-13	Pass
716.1	719	0.1	CHP	2	716.156	-29.37	-13	Pass



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Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.042	-27.73	-13	Pass
716.1	719	0.1	CHP	2	716.156	-28.54	-13	Pass



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5.3 B12_5MHz

5.3.1 Test Result

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
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	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
			0	Refer To Test Graph		Pass
64QAM	701.5	1	0	Refer To Test Graph		Pass
		25	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
			0	Refer To Test Graph		Pass

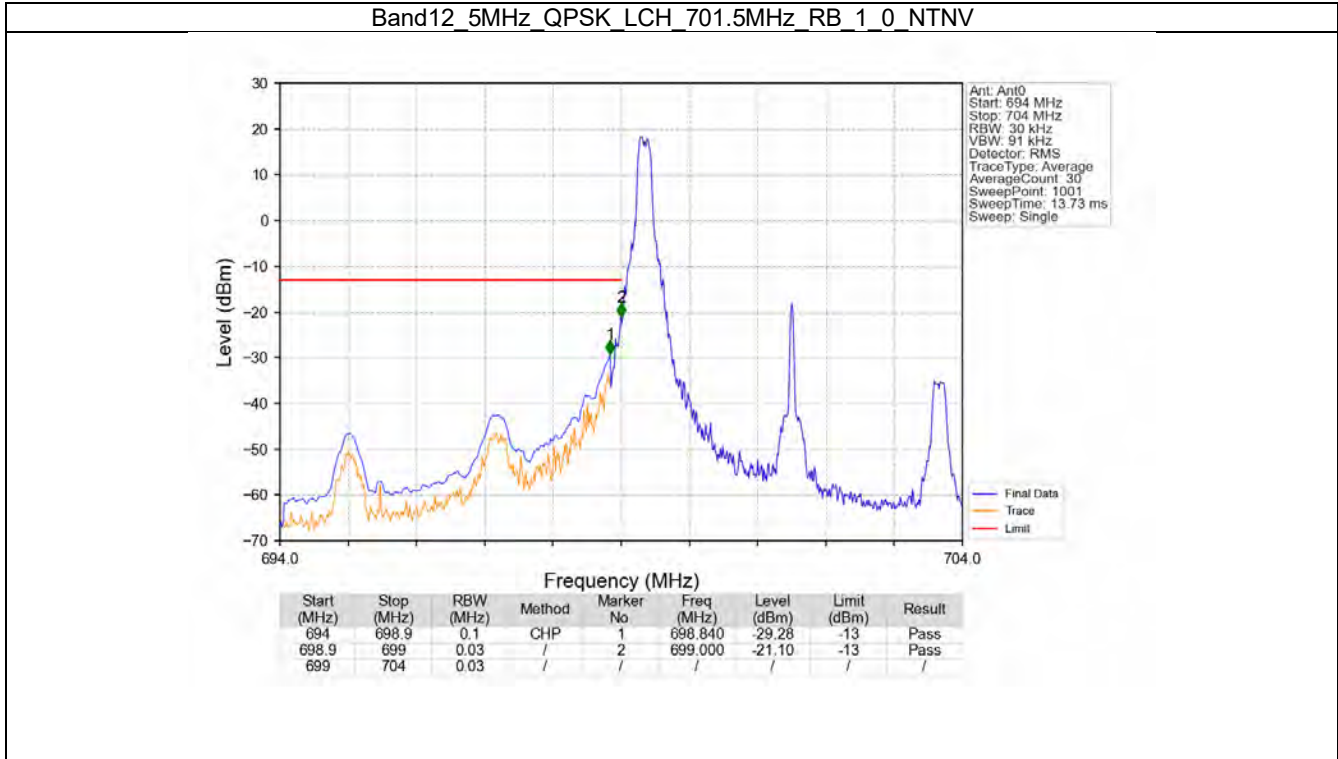


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5.3.2 Test Graph

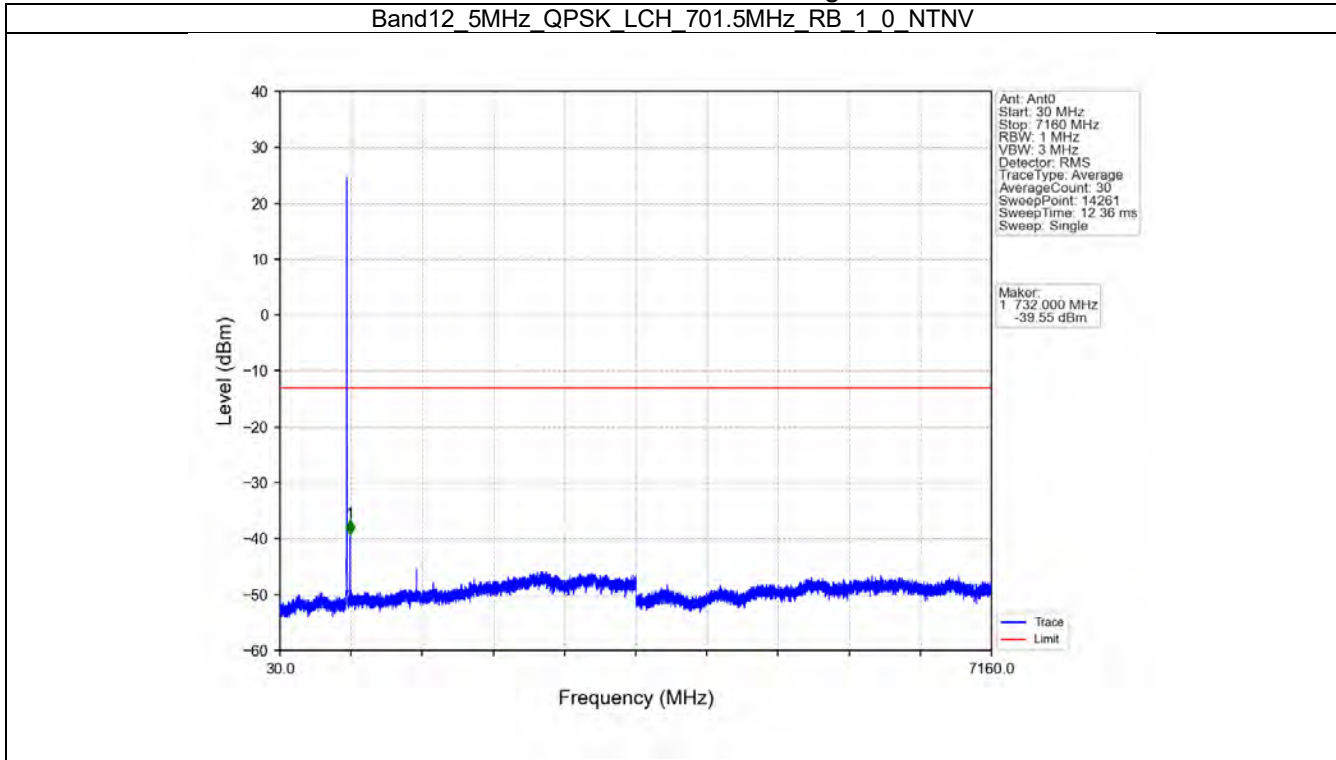


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Band12_5MHz QPSK LCH 701.5MHz_RB_1_0_NTNV

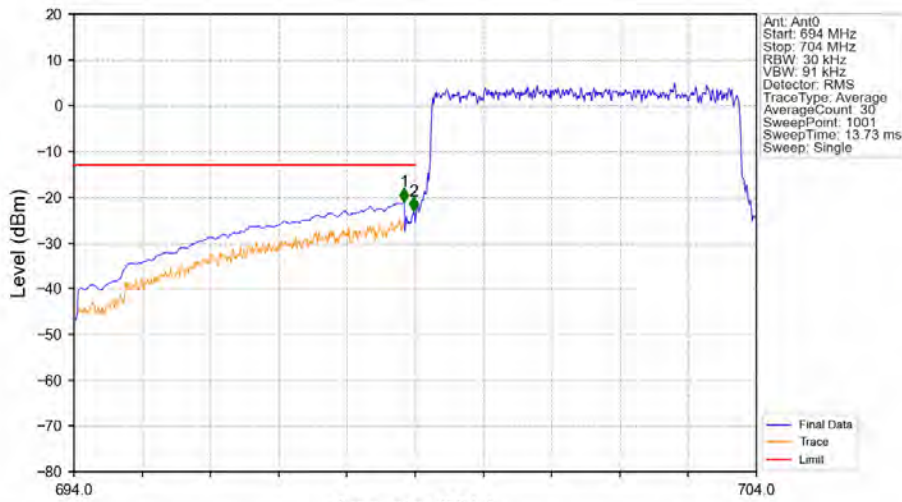


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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



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	-21.02	-13	Pass
698.9	699	0.03	/	2	698.980	-23.08	-13	Pass
699	704	0.03	/	/	/	/	/	/

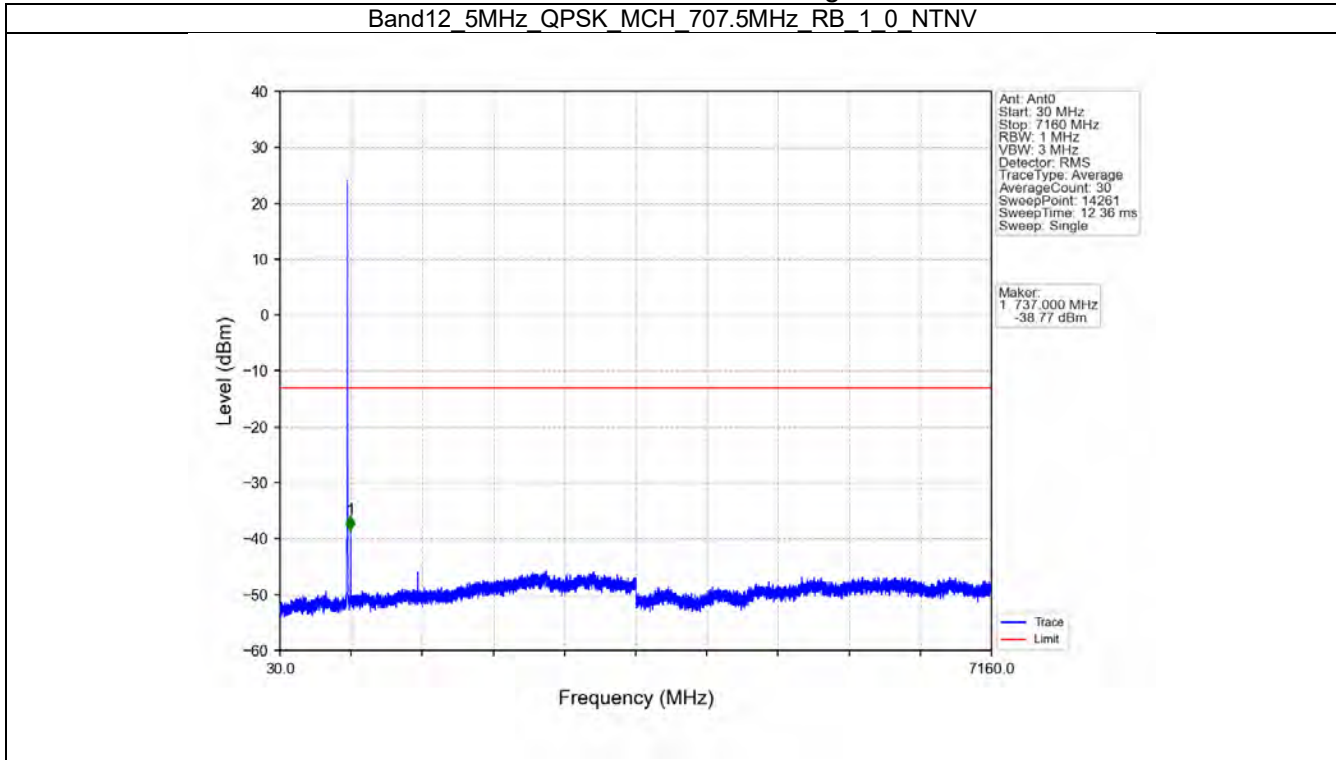


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Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTN

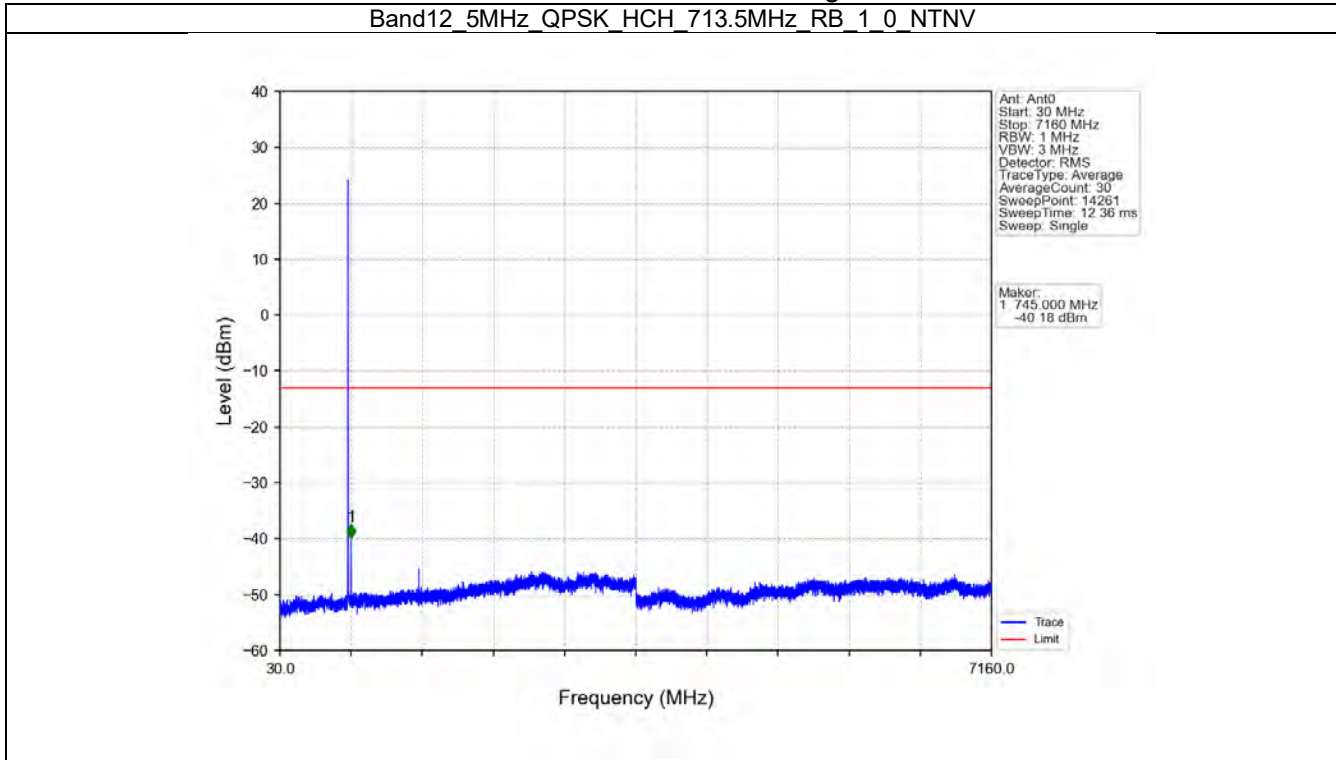


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Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



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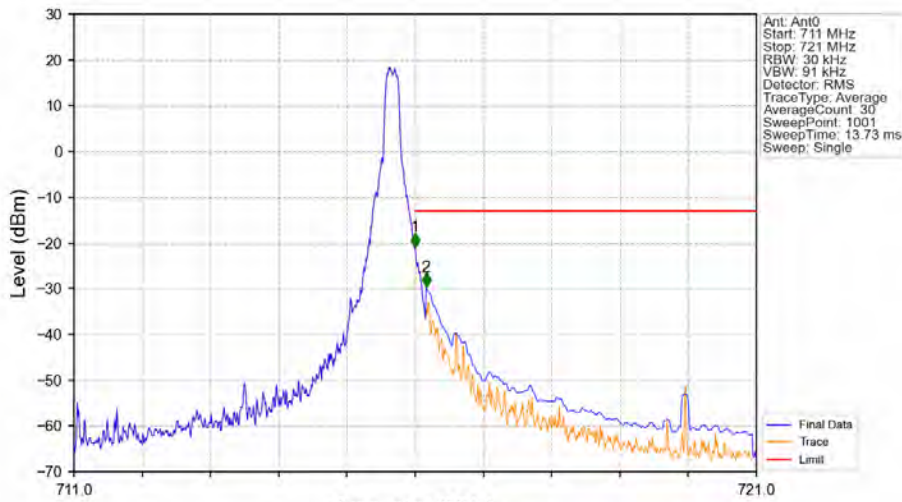
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-20.88	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.61	-13	Pass



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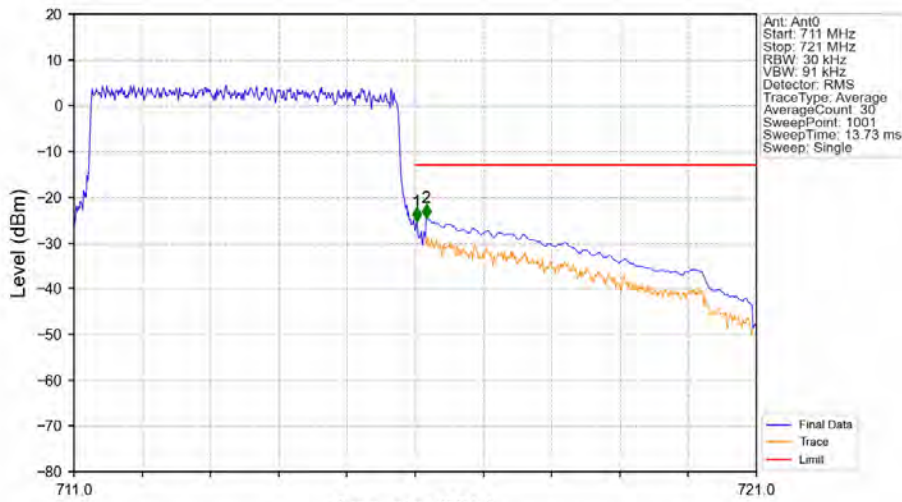
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-25.29	-13	Pass
716.1	721	0.1	CHP	2	716.160	-24.53	-13	Pass

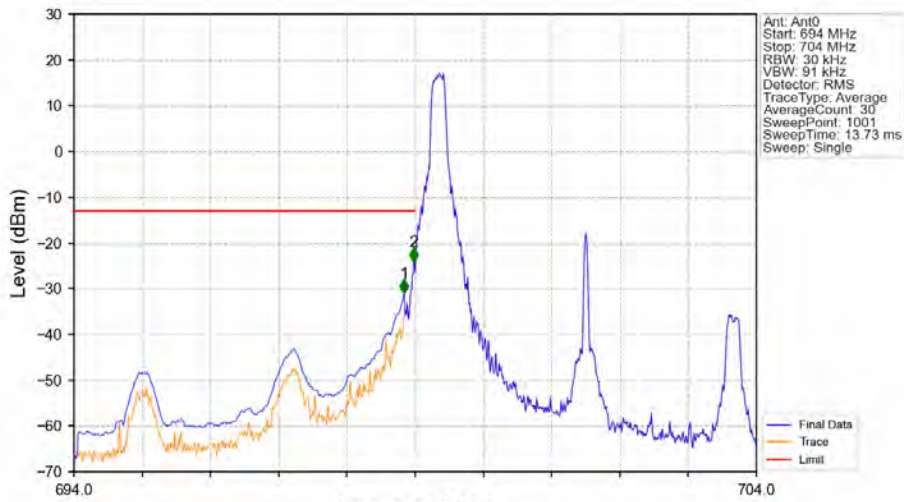


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Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	699.9	0.1	CHP	1	698.840	-31.06	-13	Pass
698.9	699	0.03	/	2	698.980	-24.15	-13	Pass
699	704	0.03	/	/	/	/	/	/



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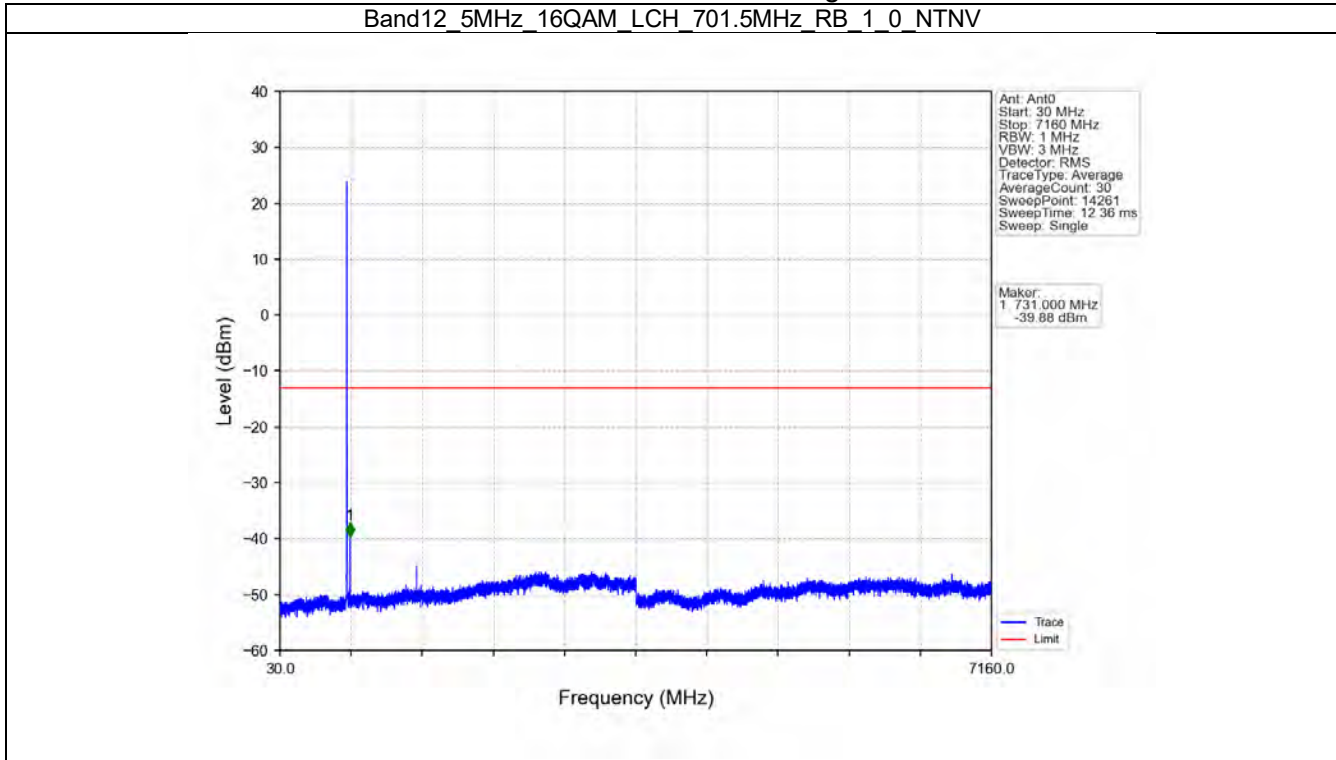
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Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

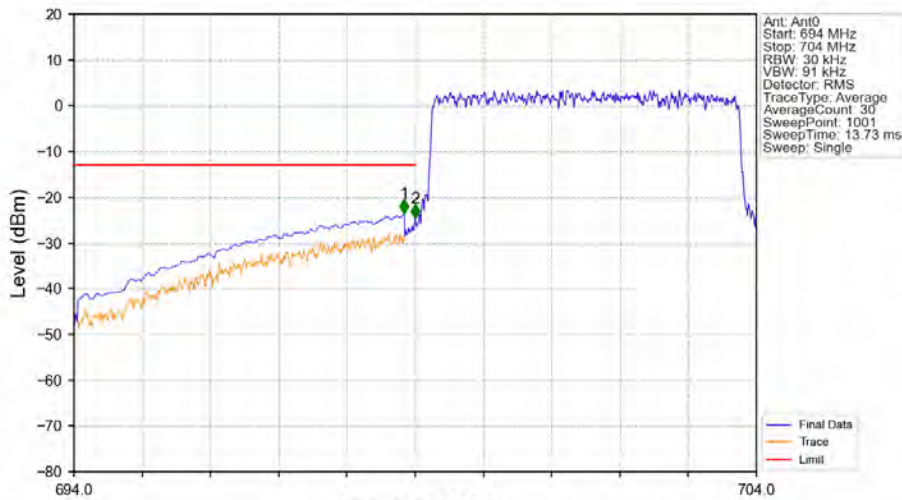


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Band12_5MHz_16QAM LCH 701.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-23.64	-13	Pass
698.9	699	0.03	/	2	699.000	-24.58	-13	Pass
699	704	0.03	/	/	/	/	/	/

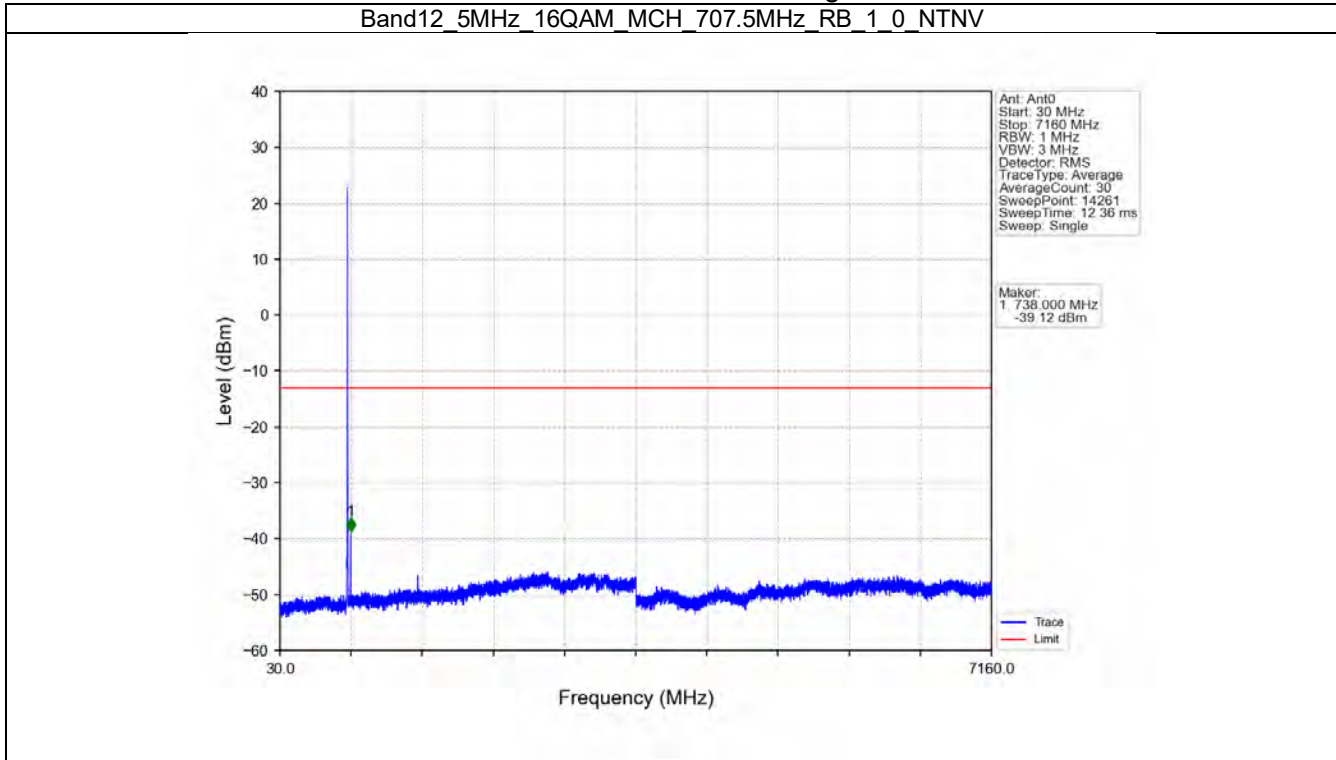


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Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV

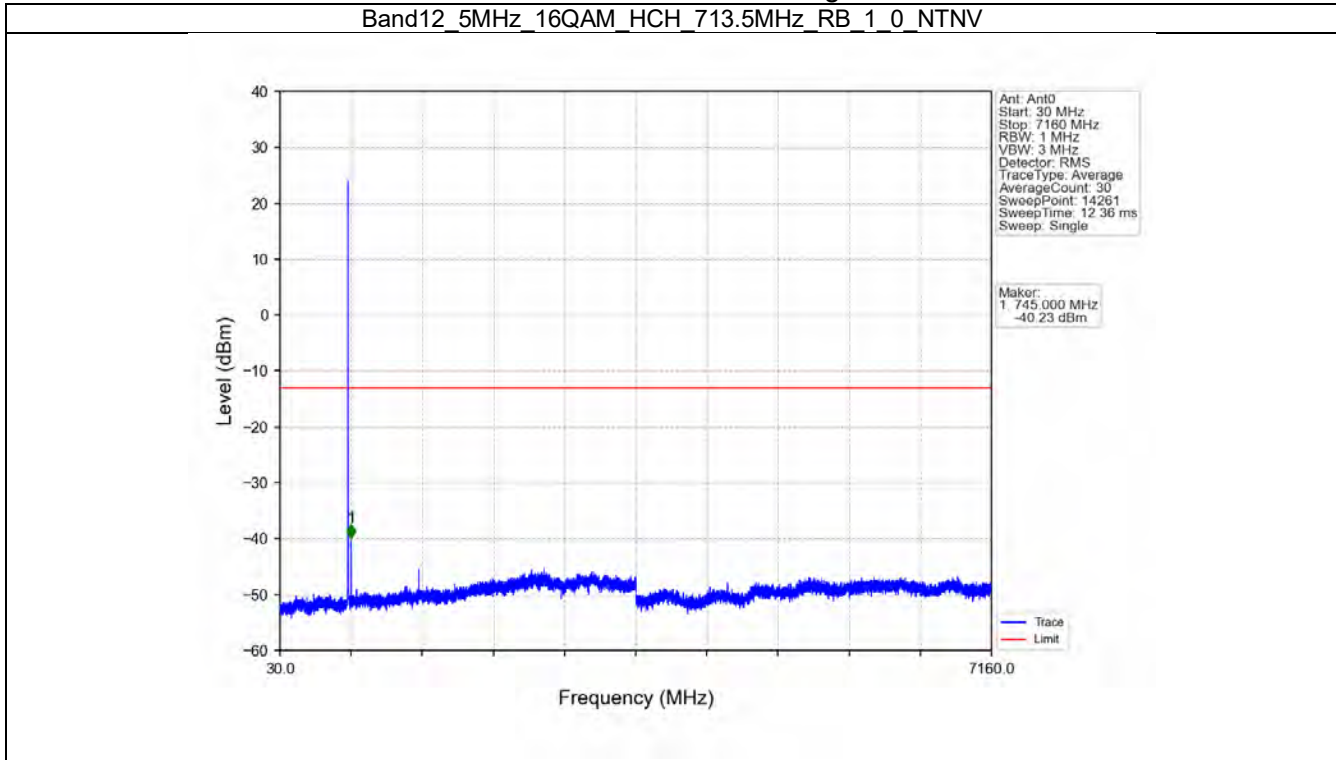


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Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

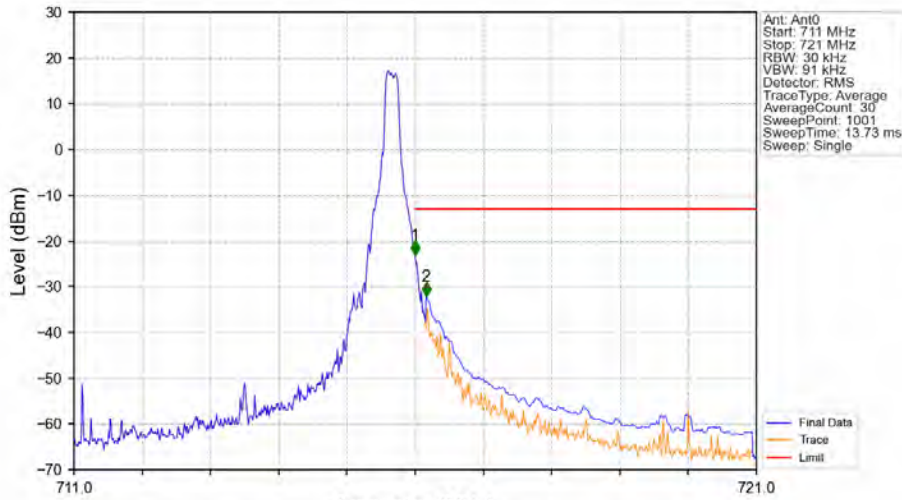


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Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-23.15	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.07	-13	Pass

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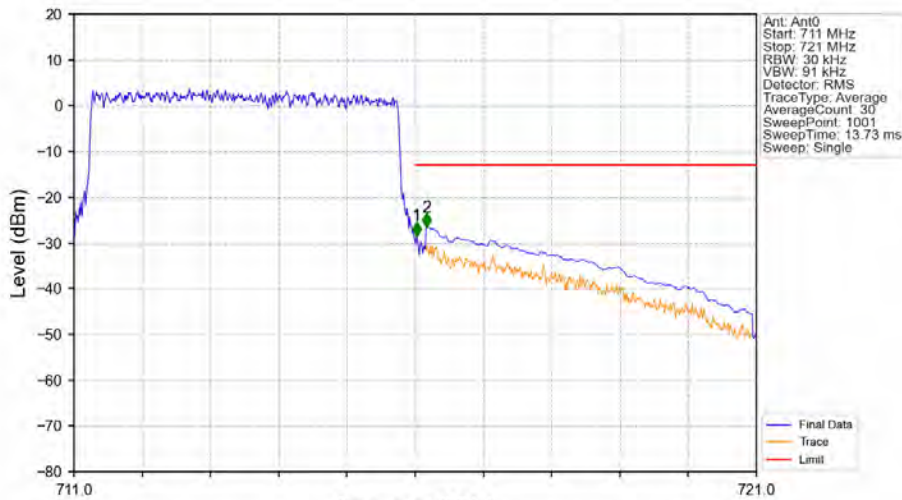


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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-28.41	-13	Pass
716.1	721	0.1	CHP	2	716.170	-26.59	-13	Pass



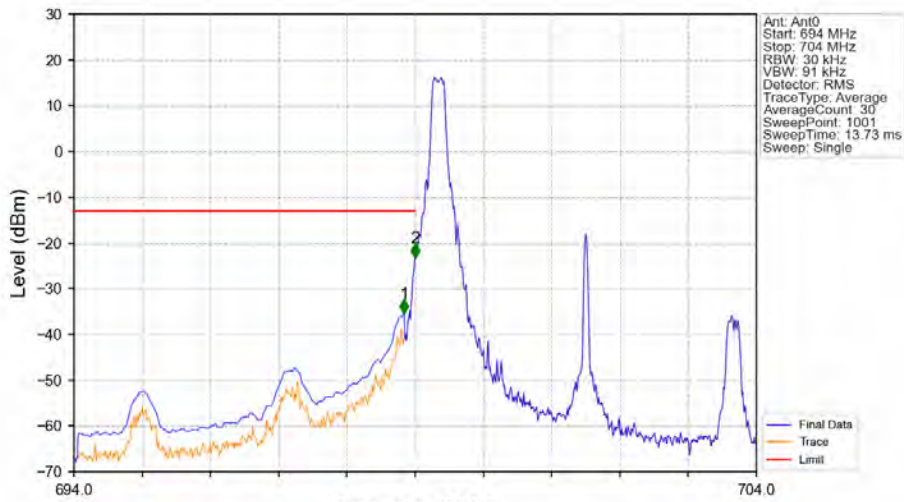
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Band12_5MHz_64QAM_LCH_701.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	699.9	0.1	CHP	1	698.840	-35.44	-13	Pass
698.9	699	0.03	/	2	699.000	-23.25	-13	Pass
699	704	0.03	/	/	/	/	/	/

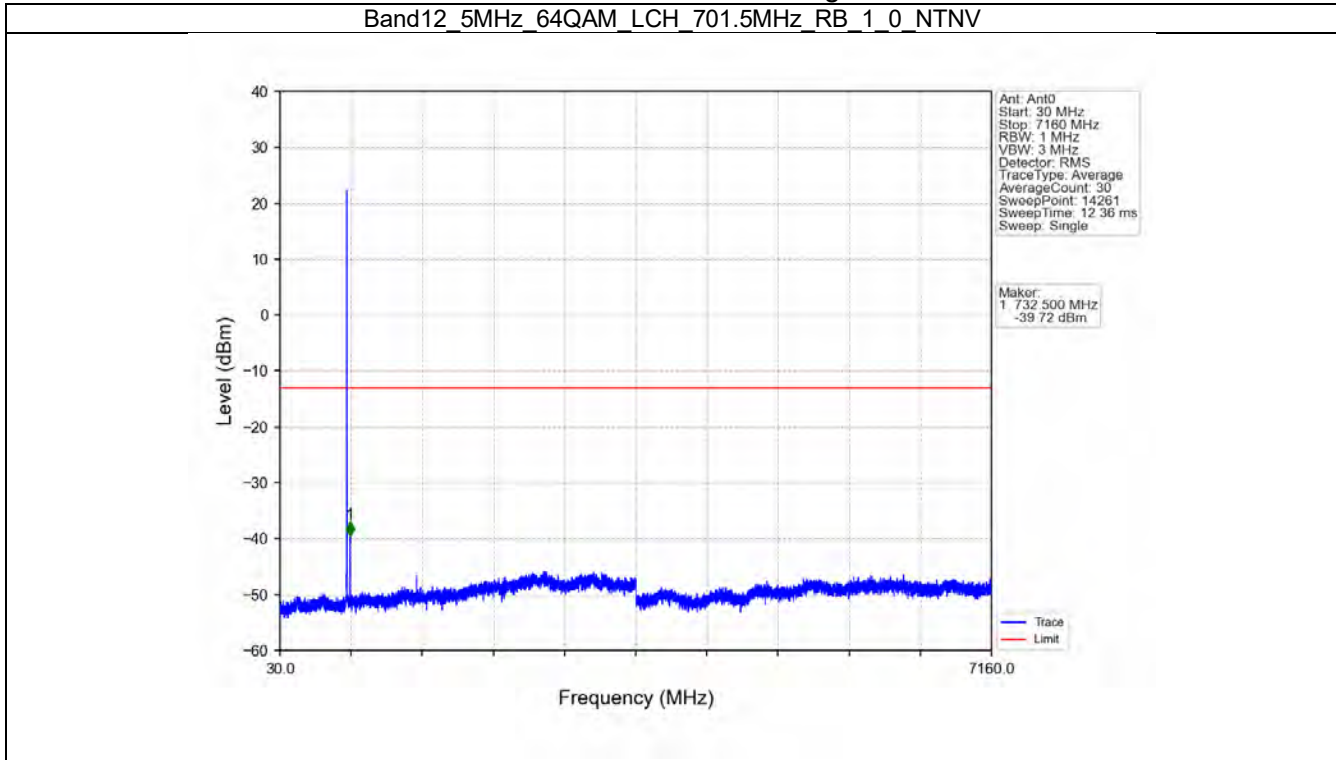


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Band12_5MHz_64QAM_LCH_701.5MHz_RB_1_0_NTNV

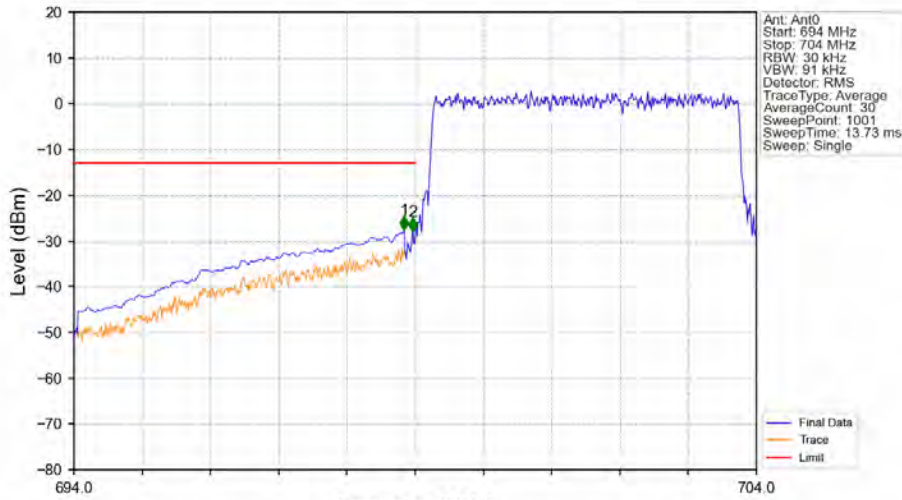


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Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	699.9	0.1	CHP	1	698.840	-27.64	-13	Pass
698.9	699	0.03	/	2	698.970	-28.05	-13	Pass
699	704	0.03	/	/	/	/	/	/

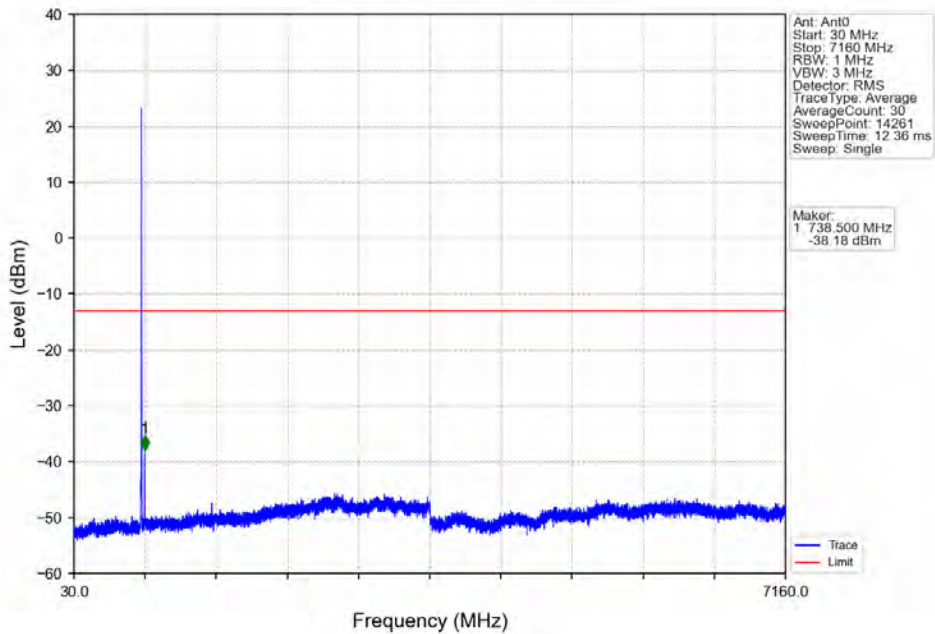


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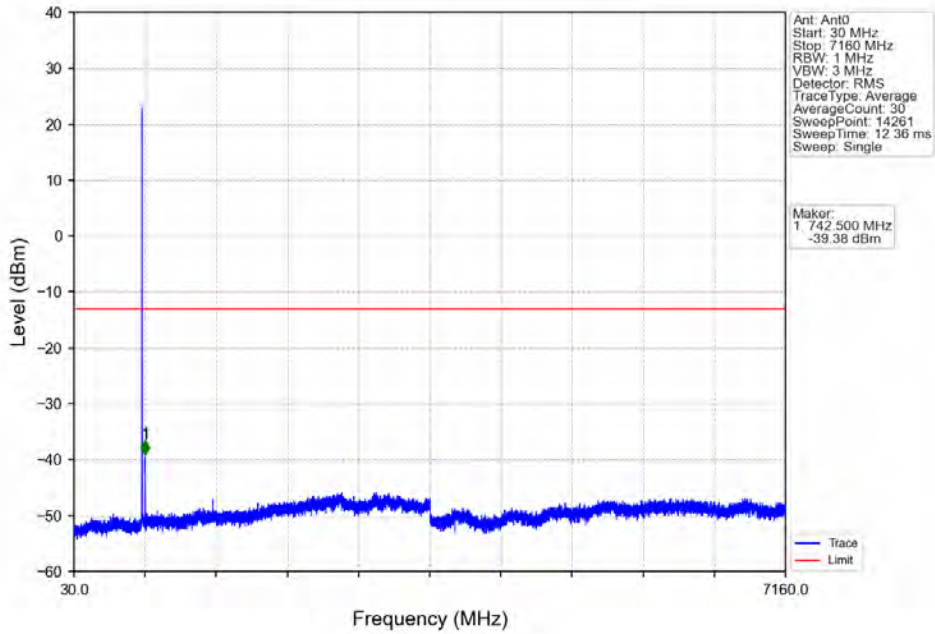
Band12_5MHz_64QAM_MCH_707.5MHz_RB_1_0_NTNV



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Band12_5MHz_64QAM_HCH_713.5MHz_RB_1_0_NTNV

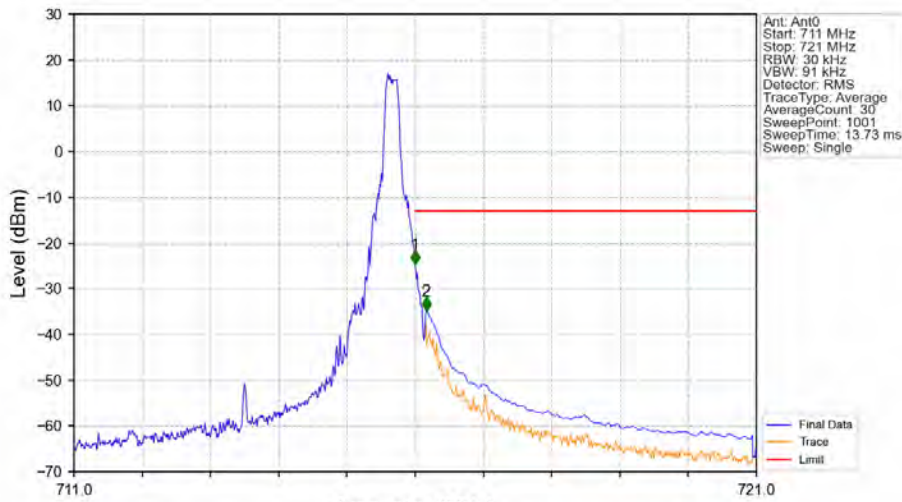


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Band12_5MHz_64QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.66	-13	Pass
716.1	721	0.1	CHP	2	716.160	-34.94	-13	Pass

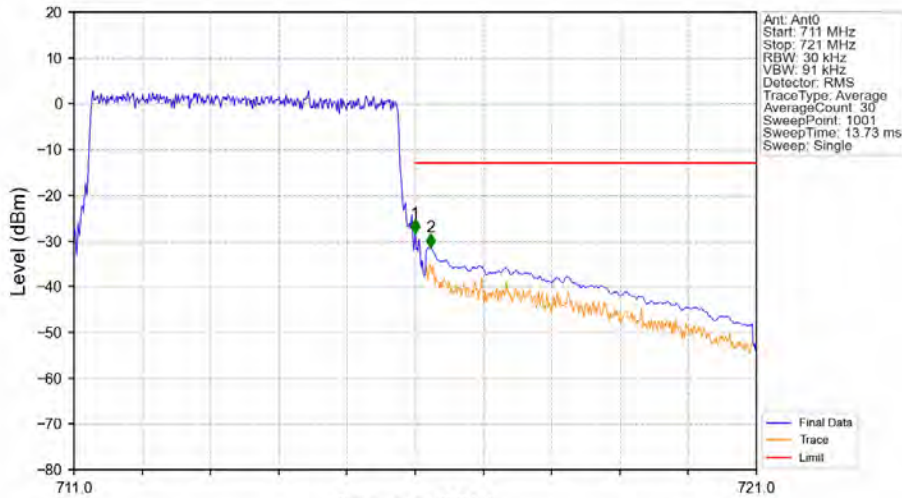


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Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



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	716.000	-28.31	-13	Pass
716.1	721	0.1	CHP	2	716.230	-31.44	-13	Pass



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5.4 B12_10MHz

5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
		50	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
			0	Refer To Test Graph		Pass
64QAM	704	1	0	Refer To Test Graph		Pass
		50	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
			0	Refer To Test Graph		Pass

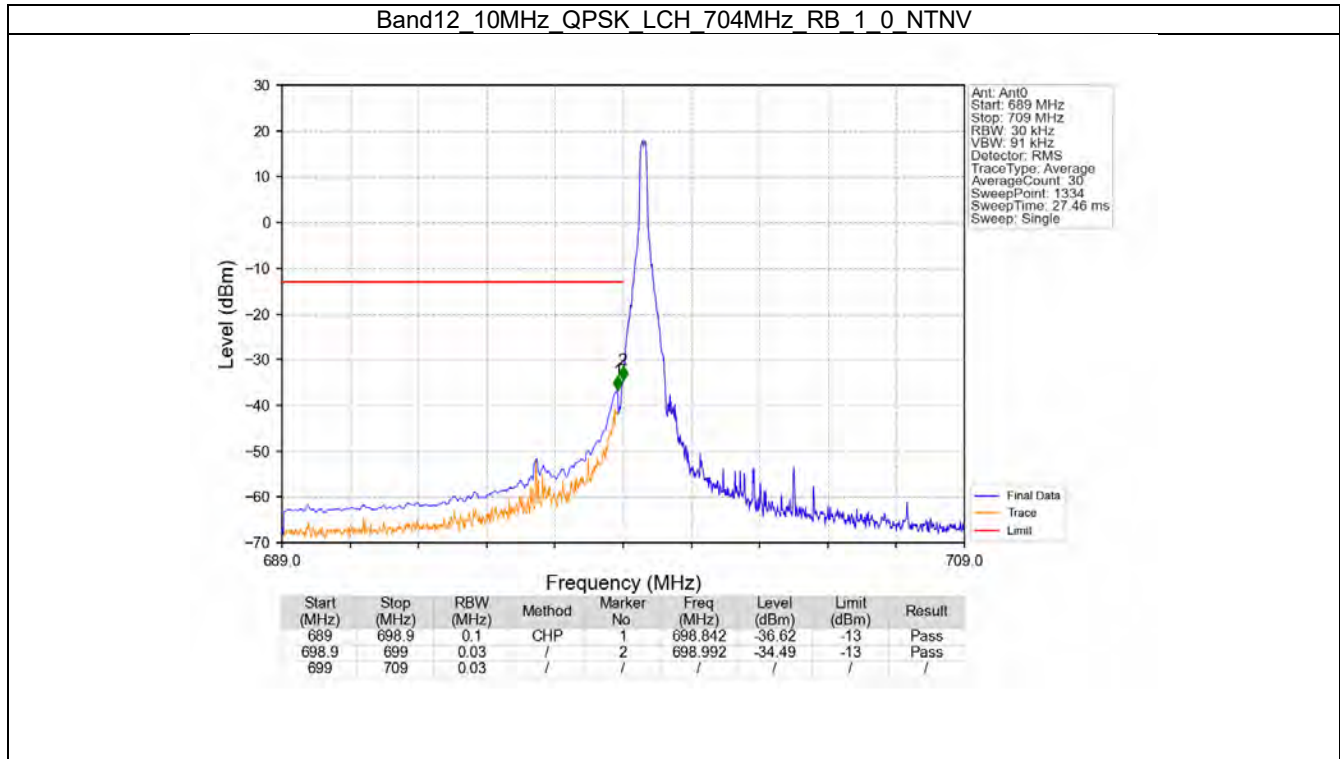


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5.4.2 Test Graph

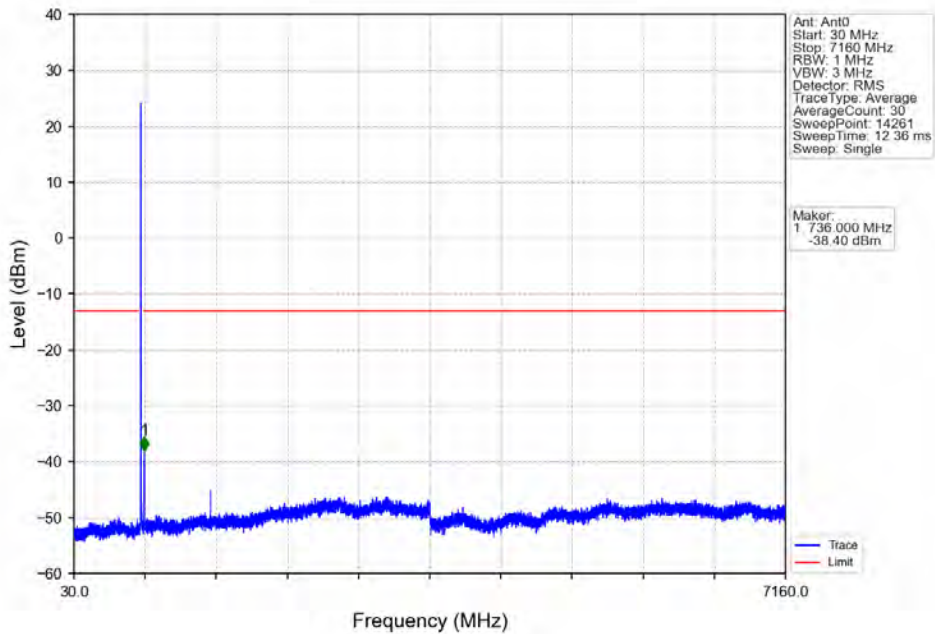


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Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



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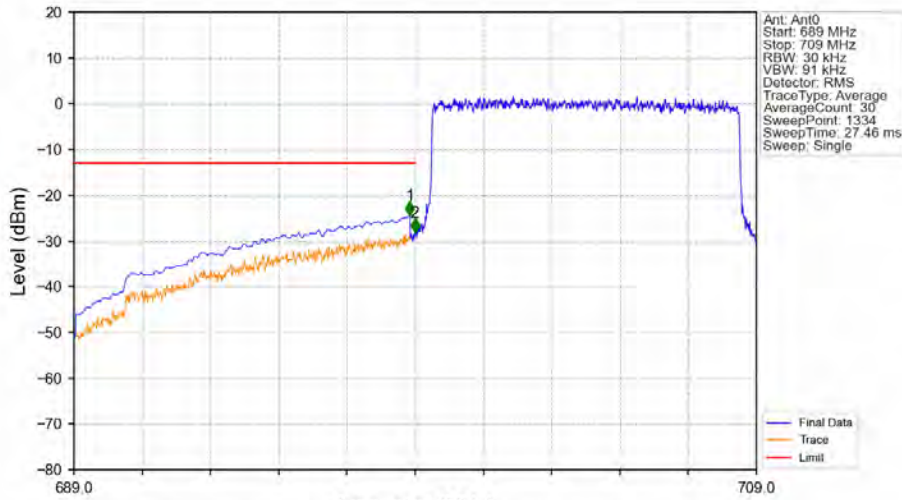
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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-24.42	-13	Pass
698.9	699	0.03	/	2	698.992	-28.22	-13	Pass
699	709	0.03	/	/	/	/	/	/

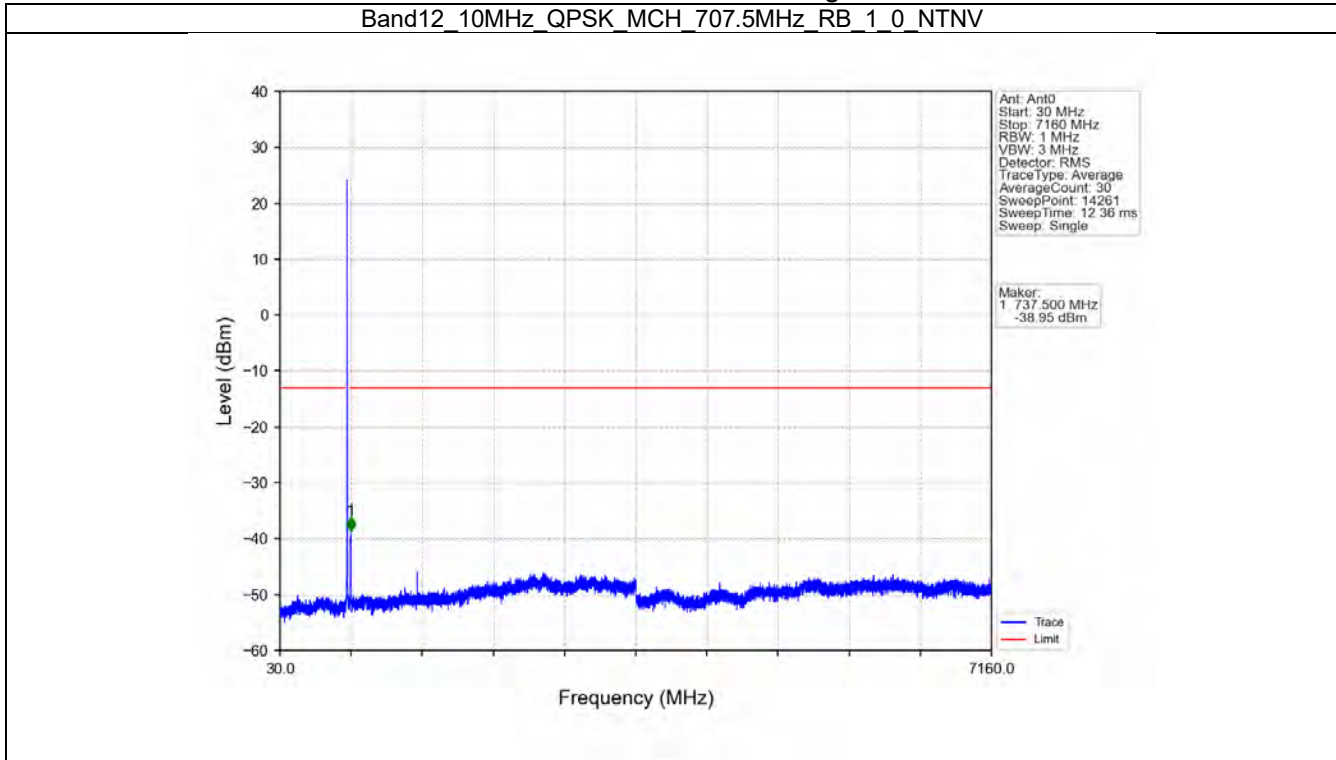


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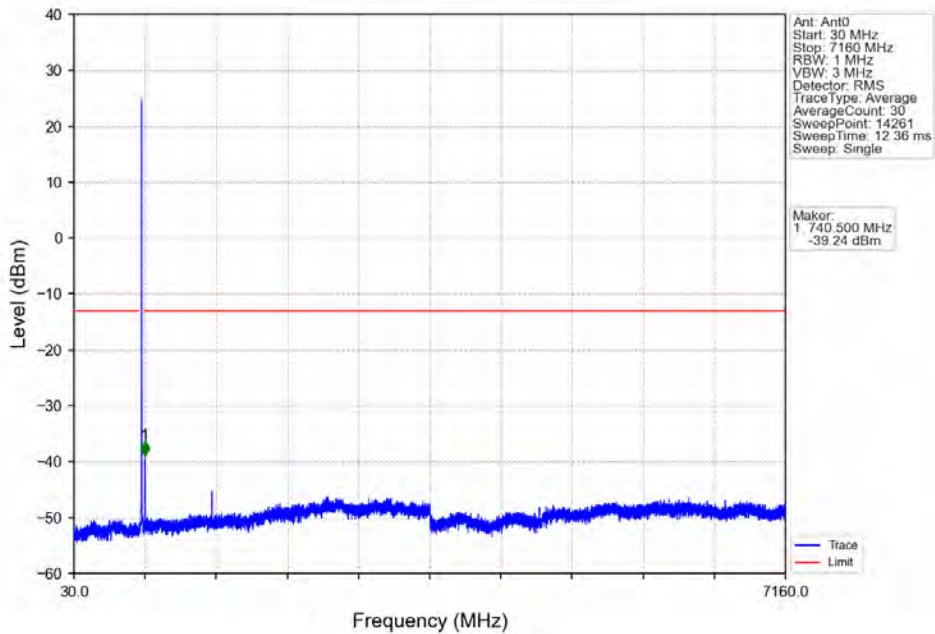


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Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



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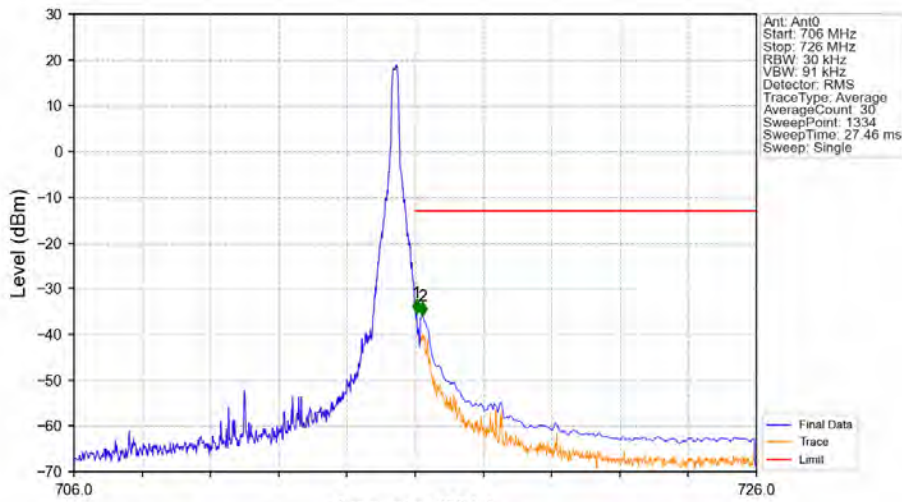
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Band12 10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-35.37	-13	Pass
716.1	726	0.1	CHP	2	716.218	-35.94	-13	Pass



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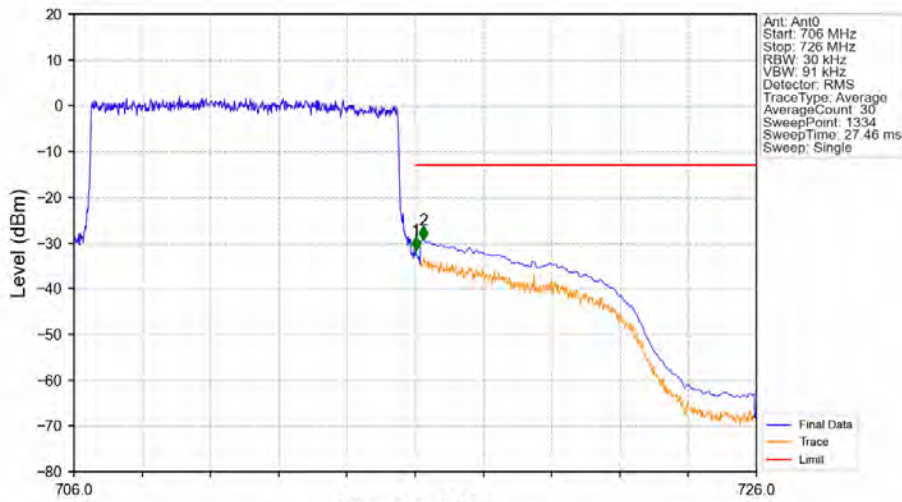
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-31.65	-13	Pass
716.1	726	0.1	CHP	2	716.233	-29.33	-13	Pass



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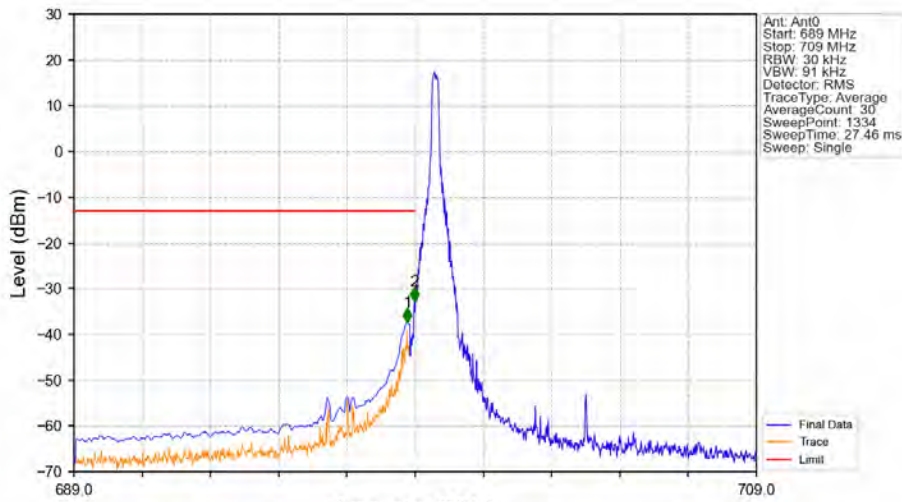
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Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



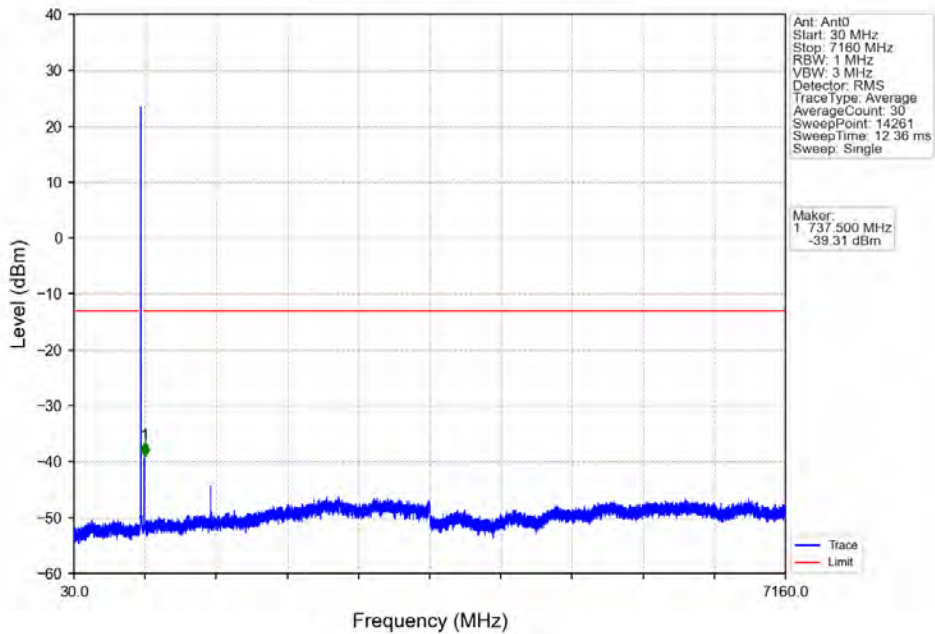
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.767	-37.43	-13	Pass
698.9	699	0.03	/	2	698.977	-32.85	-13	Pass
699	709	0.03	/	/	/	/	/	/



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Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



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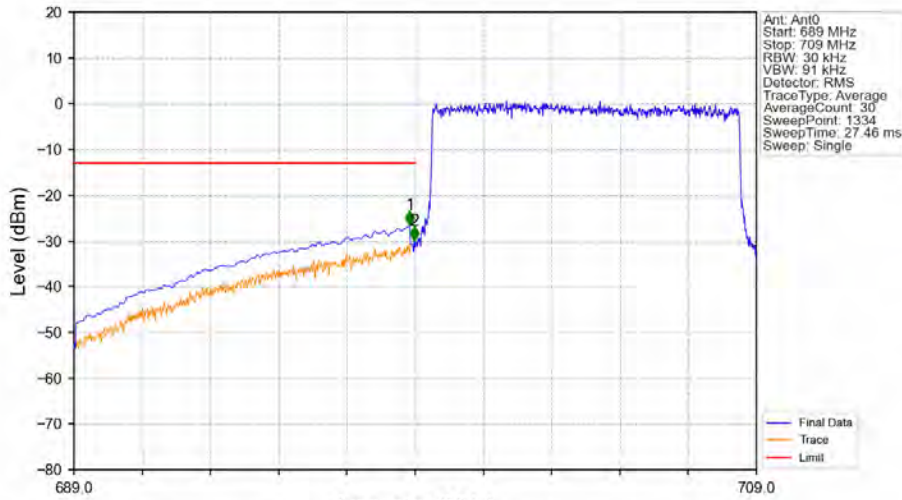
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Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-26.50	-13	Pass
698.9	699	0.03	/	2	698.977	-29.93	-13	Pass
699	709	0.03	/	/	/	/	/	/



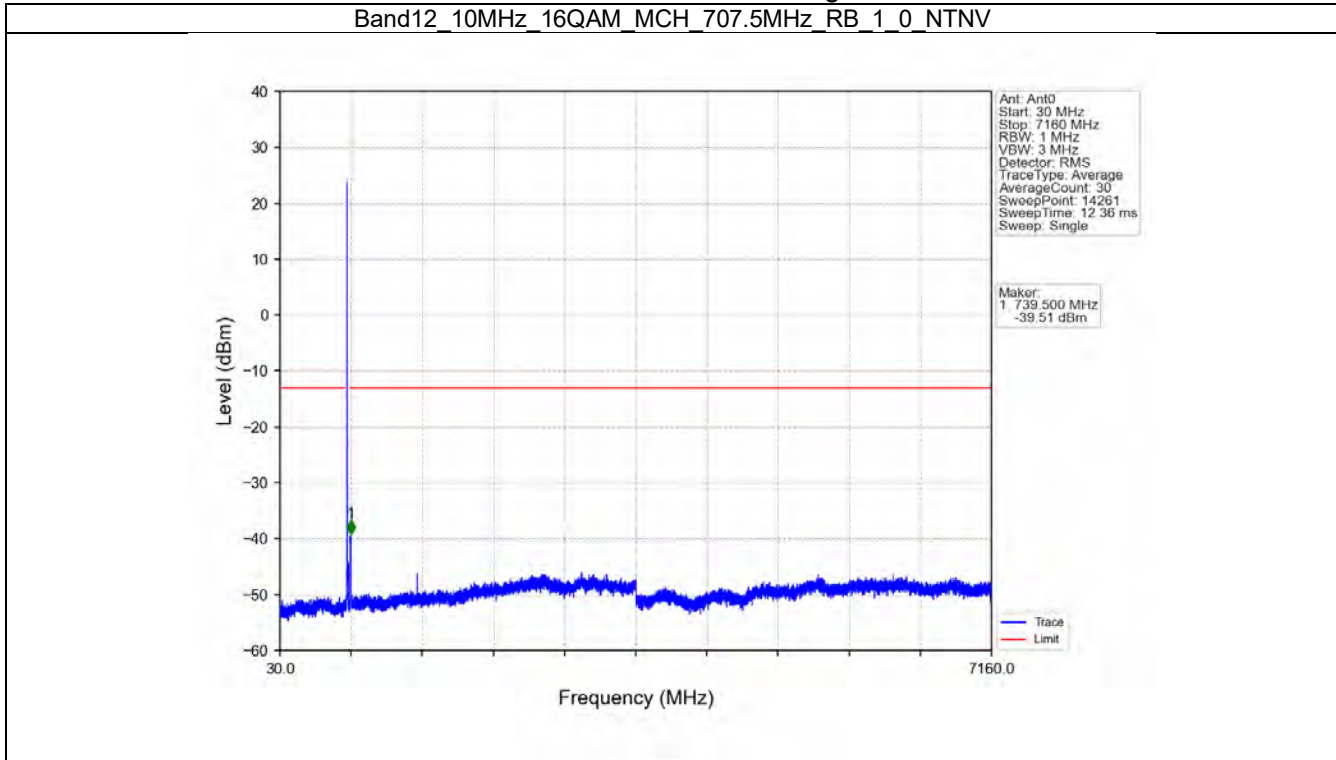
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



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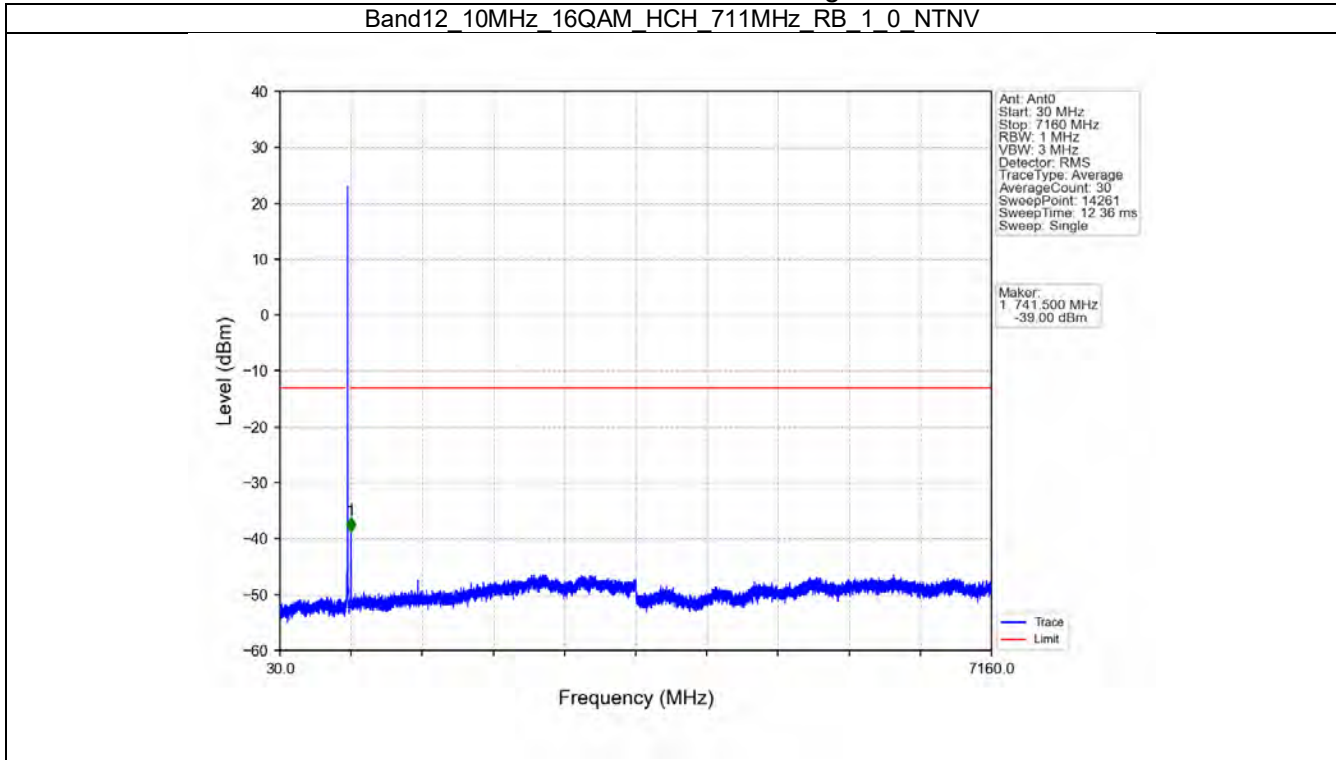
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Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



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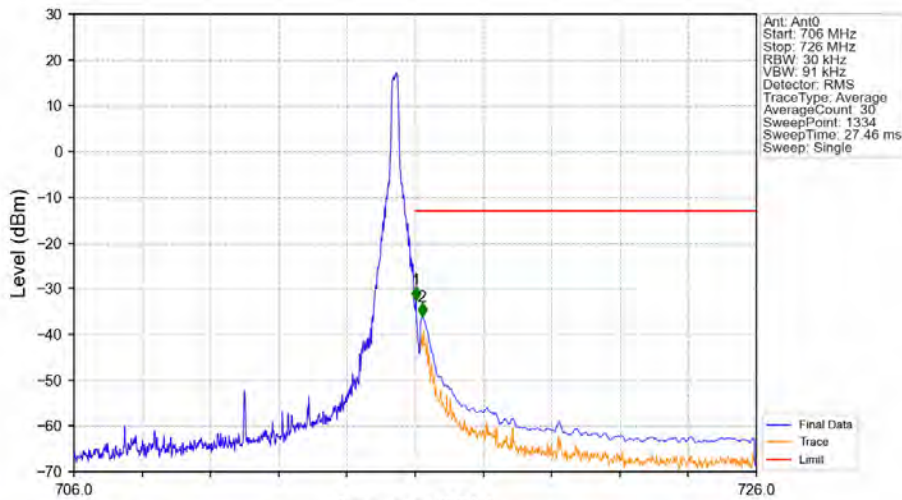
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Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-32.53	-13	Pass
716.1	726	0.1	CHP	2	716.203	-36.18	-13	Pass



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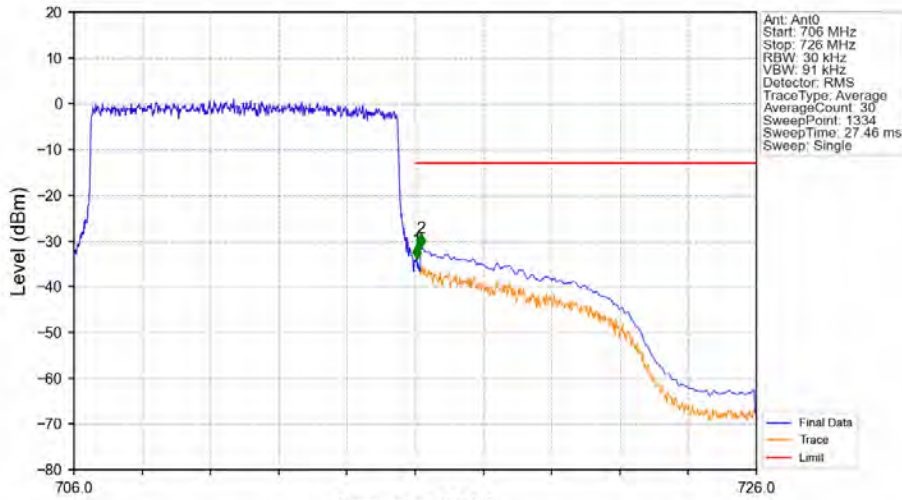
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Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-33.92	-13	Pass
716.1	726	0.1	CHP	2	716.173	-31.57	-13	Pass



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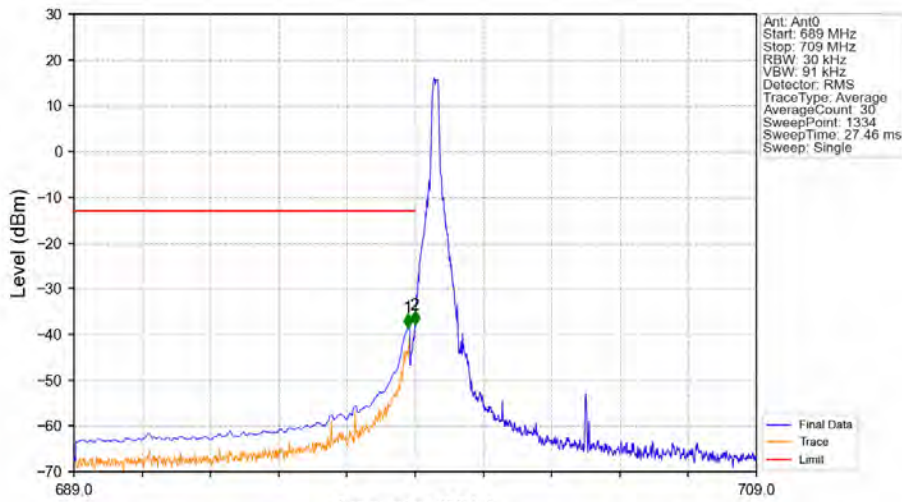
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Band12_10MHz_64QAM_LCH_704MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.782	-38.52	-13	Pass
698.9	699	0.03	/	2	698.992	-37.85	-13	Pass
699	709	0.03	/	/	/	/	/	/

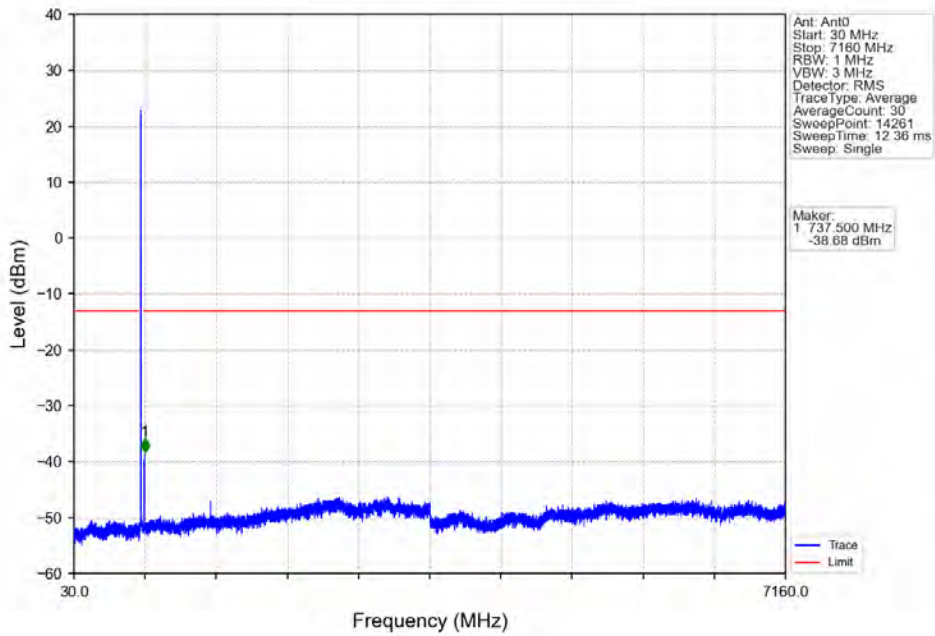


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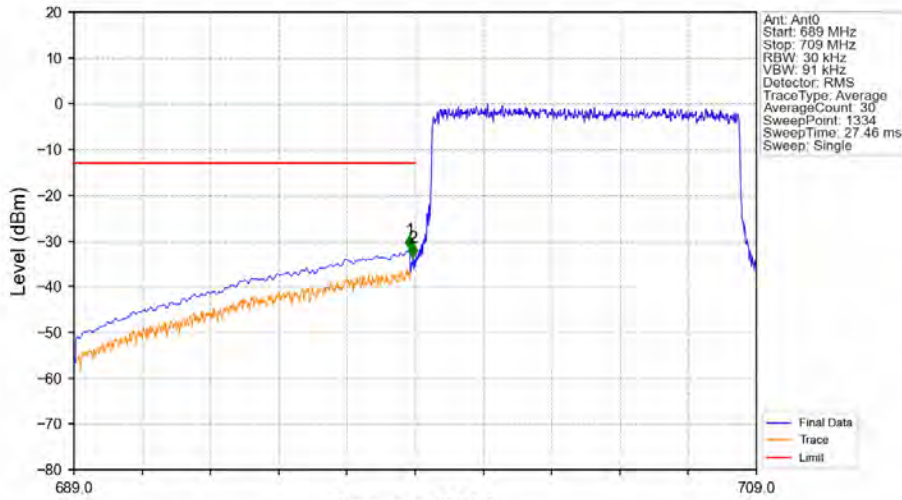


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-31.80	-13	Pass
698.9	699	0.03	/	2	698.932	-33.70	-13	Pass
699	709	0.03	/	/	/	/	/	/

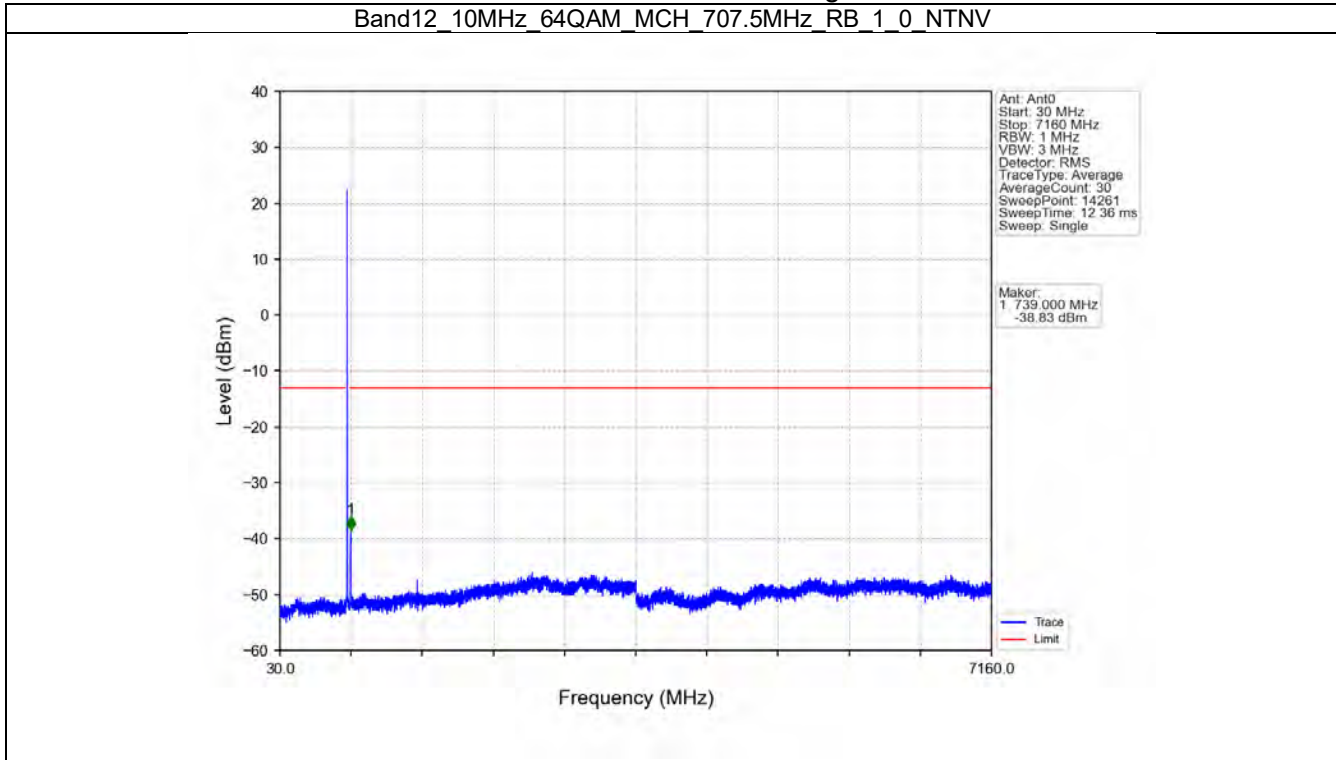


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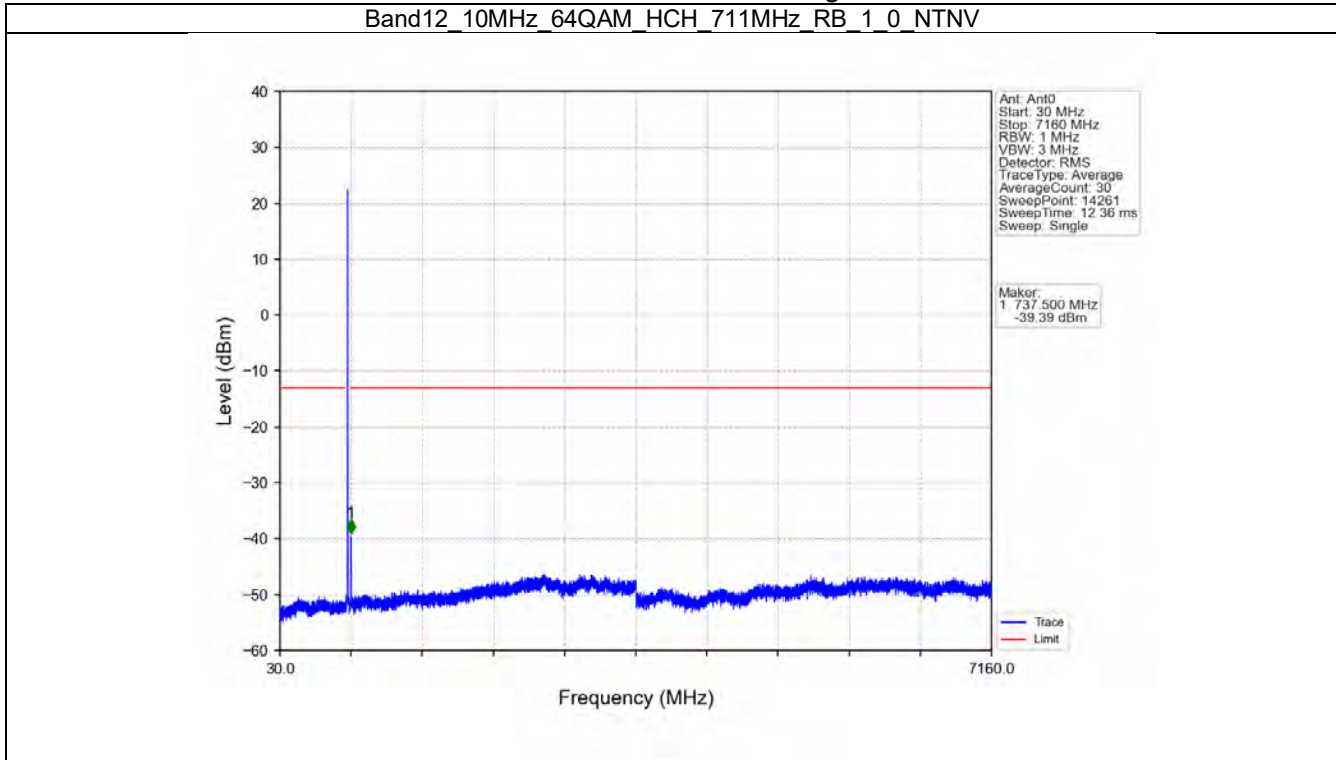


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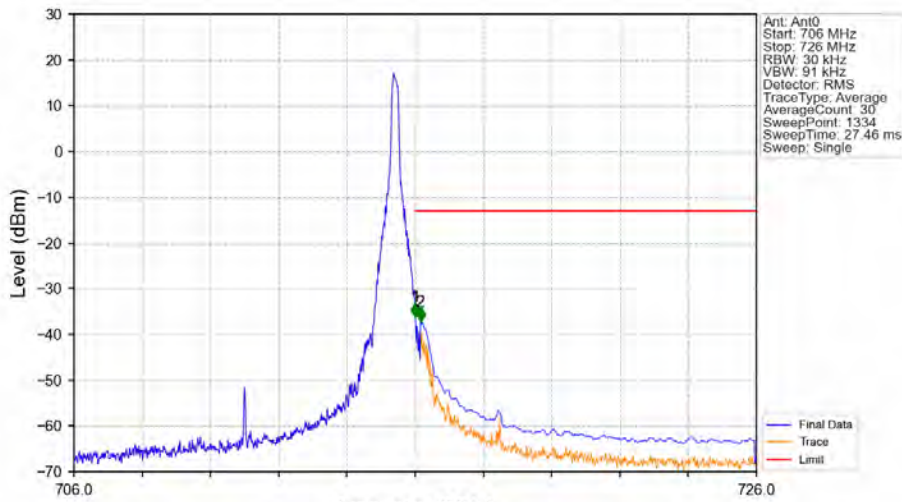
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Band12_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-36.10	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.19	-13	Pass



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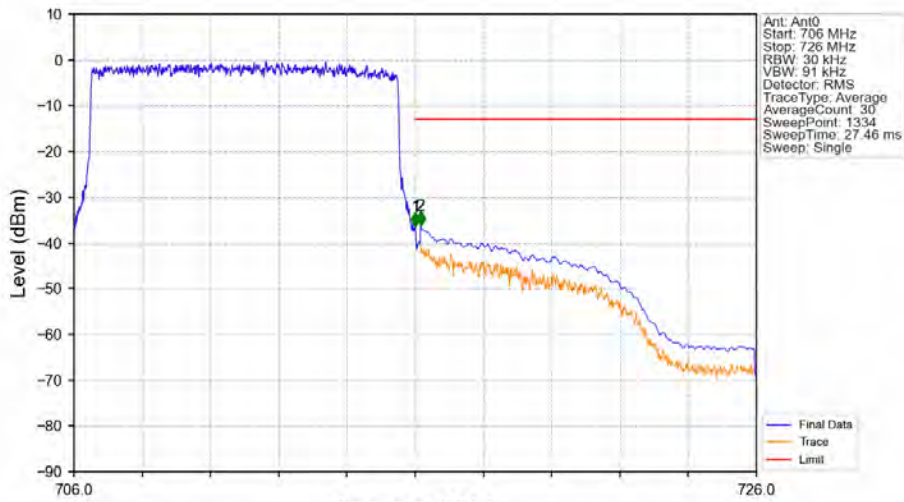
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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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	-36.40	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.24	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1

Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.18	46.07	-50.01	24.30	-74.90	-13.00	61.90	Horizontal
2	2098.77	44.69	-49.46	26.82	-73.21	-13.00	60.21	Horizontal
3	2798.36	44.59	-48.68	28.02	-71.34	-13.00	58.34	Horizontal
4	3497.95	43.77	-48.44	28.70	-71.23	-13.00	58.23	Horizontal
5	4197.54	44.30	-48.36	29.76	-69.56	-13.00	56.56	Horizontal
6	4897.13	42.67	-48.17	31.25	-69.50	-13.00	56.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.18	46.07	-50.01	24.30	-74.90	-13.00	61.90	Vertical
2	2098.77	44.90	-49.46	26.82	-73.00	-13.00	60.00	Vertical
3	2798.36	44.31	-48.68	28.02	-71.62	-13.00	58.62	Vertical
4	3497.95	44.56	-48.44	28.70	-70.44	-13.00	57.44	Vertical
5	4197.54	43.42	-48.36	29.76	-70.44	-13.00	57.44	Vertical
6	4897.13	42.77	-48.17	31.25	-69.40	-13.00	56.40	Vertical



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Test Band = LTE Band 12_ TM1

Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	44.80	-50.00	24.33	-76.13	-13.00	63.13	Horizontal
2	2109.27	44.96	-49.46	26.83	-72.93	-13.00	59.93	Horizontal
3	2812.36	43.74	-48.69	28.05	-72.16	-13.00	59.16	Horizontal
4	3515.45	43.91	-48.44	28.72	-71.07	-13.00	58.07	Horizontal
5	4218.54	43.22	-48.30	29.79	-70.54	-13.00	57.54	Horizontal
6	4921.63	42.82	-48.12	31.31	-69.25	-13.00	56.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.18	45.61	-50.00	24.33	-75.32	-13.00	62.32	Vertical
2	2109.27	44.59	-49.46	26.83	-73.30	-13.00	60.30	Vertical
3	2812.36	44.10	-48.69	28.05	-71.80	-13.00	58.80	Vertical
4	3515.45	43.76	-48.44	28.72	-71.22	-13.00	58.22	Vertical
5	4218.54	43.41	-48.30	29.79	-70.35	-13.00	57.35	Vertical
6	4921.63	43.02	-48.12	31.31	-69.05	-13.00	56.05	Vertical



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Test Band = LTE Band 12_ TM1

Test Channel = High Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	45.74	-49.99	24.35	-75.15	-13.00	62.15	Horizontal
2	2119.77	44.64	-49.47	26.84	-73.24	-13.00	60.24	Horizontal
3	2826.36	44.85	-48.71	28.08	-71.03	-13.00	58.03	Horizontal
4	3532.95	43.60	-48.45	28.75	-71.36	-13.00	58.36	Horizontal
5	4239.54	43.94	-48.23	29.83	-69.72	-13.00	56.72	Horizontal
6	4946.13	42.97	-48.07	31.37	-68.99	-13.00	55.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.18	45.54	-49.99	24.35	-75.35	-13.00	62.35	Vertical
2	2119.77	45.53	-49.47	26.84	-72.35	-13.00	59.35	Vertical
3	2826.36	43.71	-48.71	28.08	-72.17	-13.00	59.17	Vertical
4	3532.95	44.06	-48.45	28.75	-70.90	-13.00	57.90	Vertical
5	4239.54	44.11	-48.23	29.83	-69.55	-13.00	56.55	Vertical
6	4946.13	43.10	-48.07	31.37	-68.86	-13.00	55.86	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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