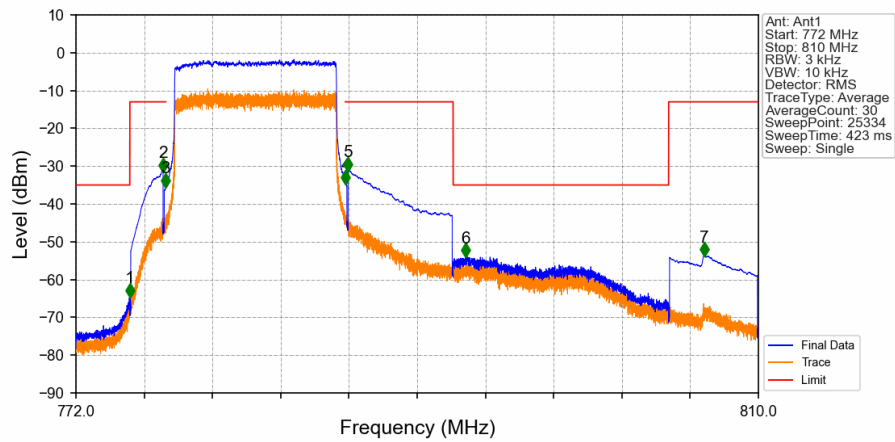




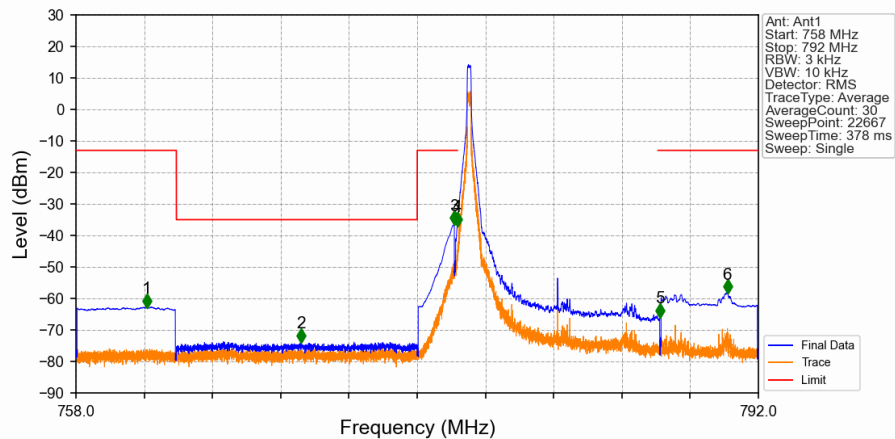
Test Report No.: RF260330B004

Band13_10MHz_QPSK_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.996	-64.35	-35	Pass
775	776.9	0.1	CHP	2	776.850	-31.23	-13	Pass
776.9	777	0.03	CHP	3	776.979	-35.31	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.012	-34.44	-13	Pass
787.1	793	0.1	CHP	5	787.150	-31.04	-13	Pass
793	805	0.00625	CHP	6	793.705	-53.75	-35	Pass
805	810	0.1	CHP	7	806.983	-53.64	-13	Pass

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV

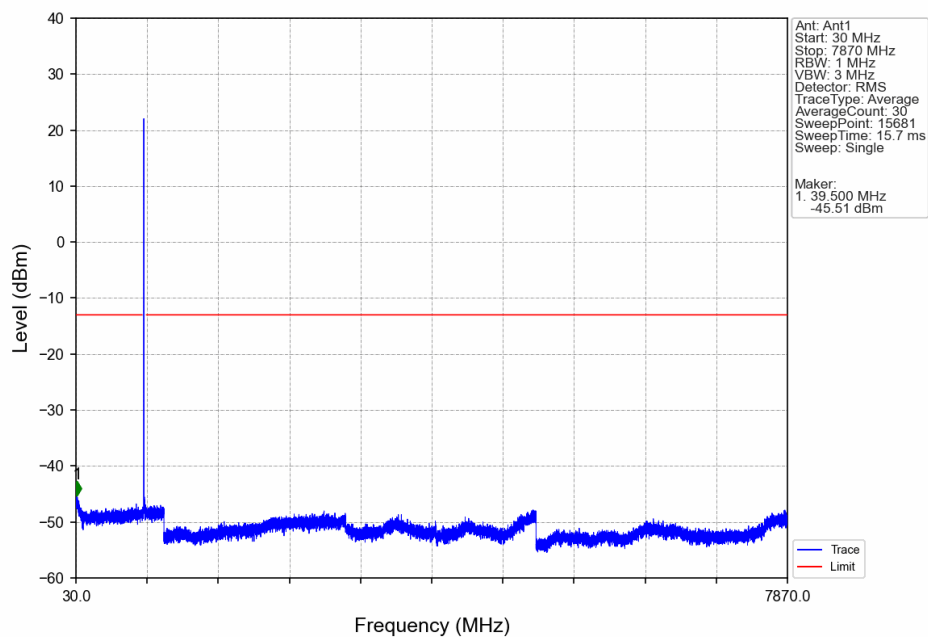


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.524	-62.61	-13	Pass
763	775	0.00625	CHP	2	769.207	-73.57	-35	Pass
775	776.9	0.1	CHP	3	776.850	-36.23	-13	Pass
776.9	777	0.03	CHP	4	776.998	-36.71	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.081	-65.65	-13	Pass
787.1	792	0.1	CHP	6	790.455	-58.07	-13	Pass

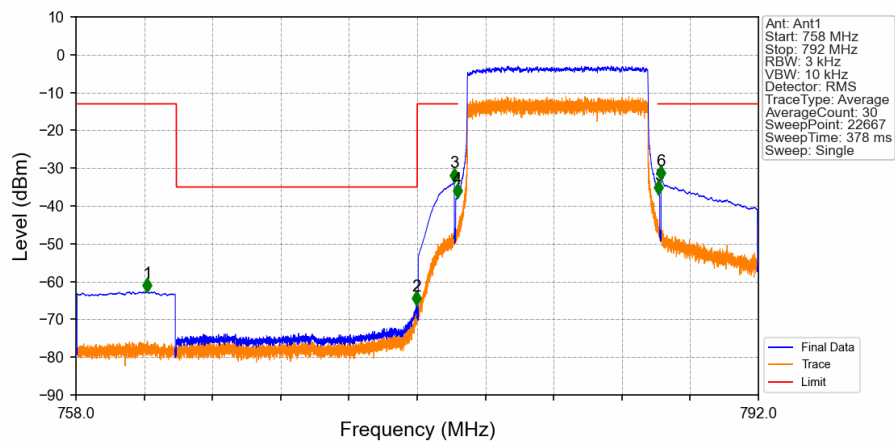


Test Report No.: RF260330B004

Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV

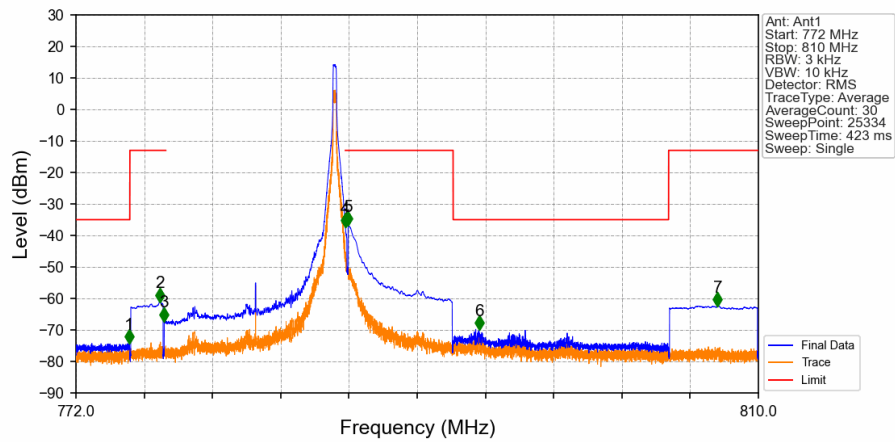


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.554	-62.49	-13	Pass
763	775	0.00625	CHP	2	774.956	-65.99	-35	Pass
775	776.9	0.1	CHP	3	776.847	-33.40	-13	Pass
776.9	777	0.03	CHP	4	777.000	-37.61	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.033	-36.76	-13	Pass
787.1	792	0.1	CHP	6	787.150	-32.91	-13	Pass



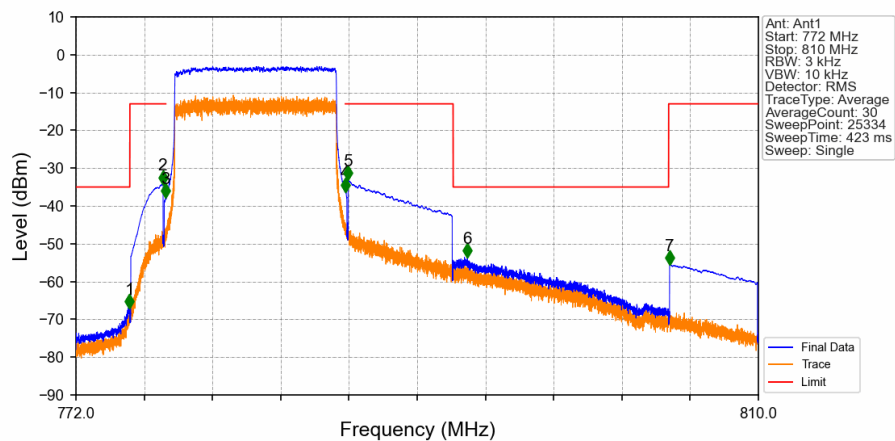
Test Report No.: RF260330B004

Band13_10MHz_16QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.954	-74.07	-35	Pass
775	776.9	0.1	CHP	2	776.688	-60.79	-13	Pass
776.9	777	0.03	CHP	3	776.916	-66.90	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.02	-13	Pass
787.1	793	0.1	CHP	5	787.150	-36.58	-13	Pass
793	805	0.00625	CHP	6	794.442	-69.60	-35	Pass
805	810	0.1	CHP	7	807.729	-62.23	-13	Pass

Band13_10MHz_16QAM_HCH_782MHz_RB_50_0_NTNV

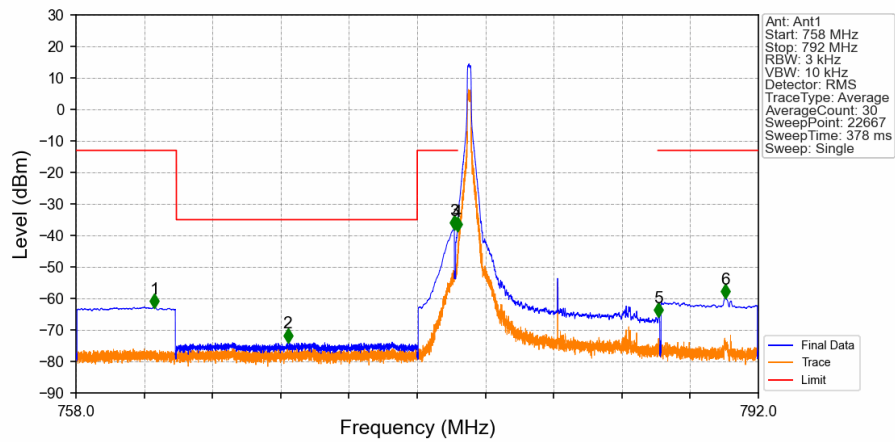


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.979	-66.81	-35	Pass
775	776.9	0.1	CHP	2	776.833	-34.00	-13	Pass
776.9	777	0.03	CHP	3	776.991	-37.51	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-35.92	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.85	-13	Pass
793	805	0.00625	CHP	6	793.795	-53.39	-35	Pass
805	810	0.1	CHP	7	805.053	-55.28	-13	Pass



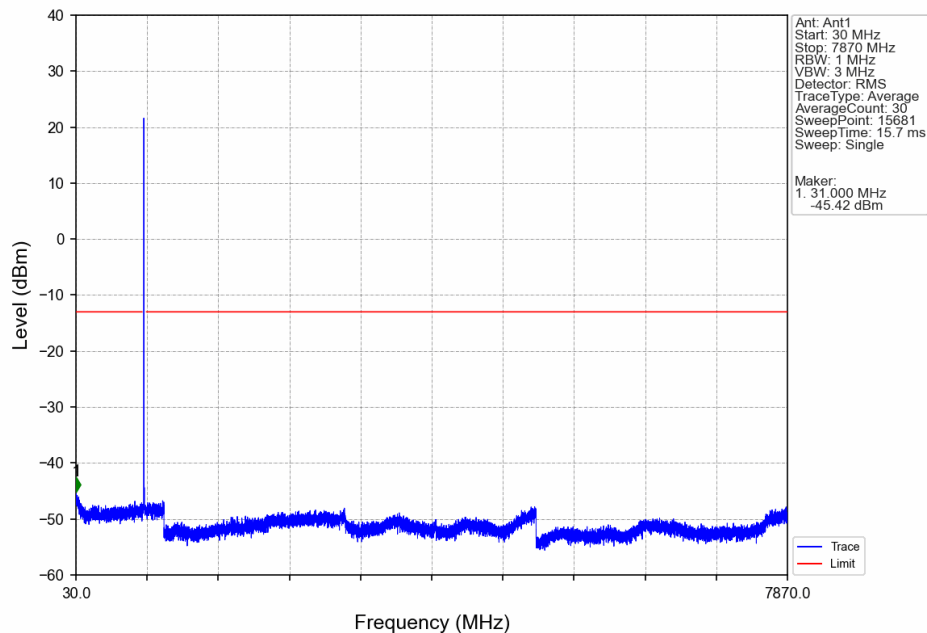
Test Report No.: RF260330B004

Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.918	-62.67	-13	Pass
763	775	0.00625	CHP	2	768.554	-73.60	-35	Pass
775	776.9	0.1	CHP	3	776.848	-37.76	-13	Pass
776.9	777	0.03	CHP	4	777.000	-38.23	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.021	-65.57	-13	Pass
787.1	792	0.1	CHP	6	790.348	-59.65	-13	Pass

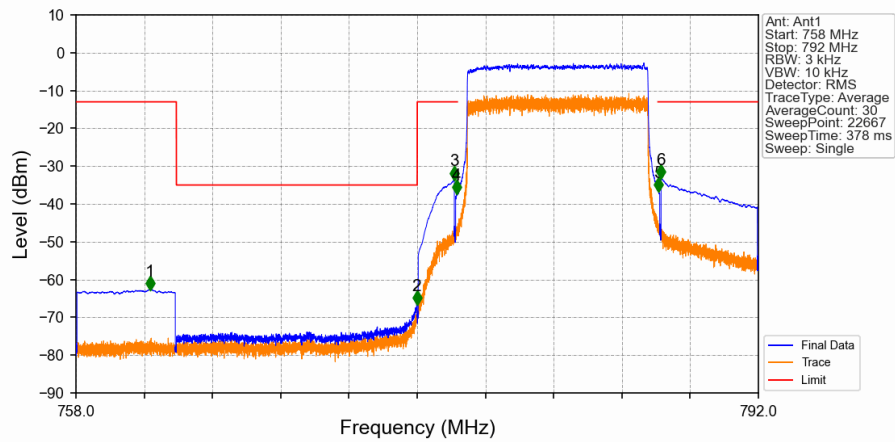
Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV





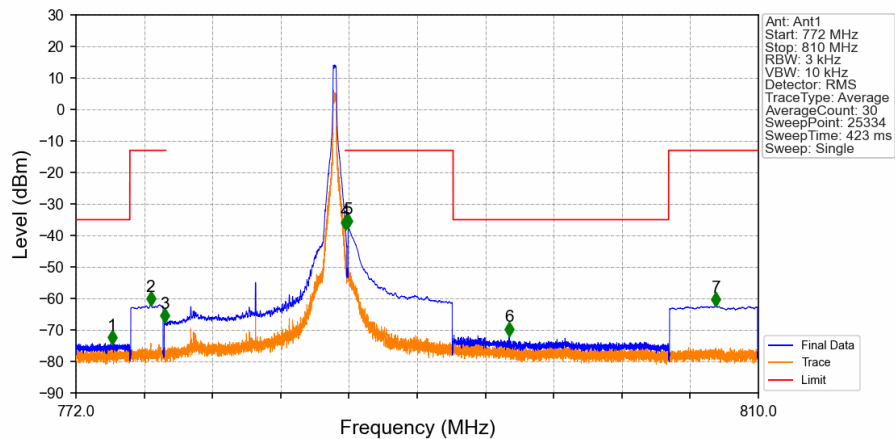
Test Report No.: RF260330B004

Band13_10MHz_64QAM_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.696	-62.53	-13	Pass
763	775	0.00625	CHP	2	774.985	-66.35	-35	Pass
775	776.9	0.1	CHP	3	776.848	-33.40	-13	Pass
776.9	777	0.03	CHP	4	776.970	-37.07	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-36.43	-13	Pass
787.1	792	0.1	CHP	6	787.152	-33.05	-13	Pass

Band13_10MHz_64QAM_HCH_782MHz_RB_1_49_NTNV

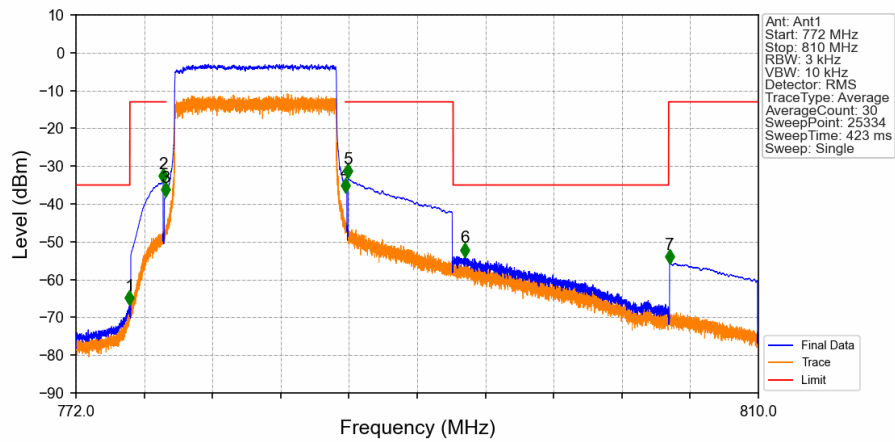


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.000	-74.23	-35	Pass
775	776.9	0.1	CHP	2	776.163	-61.98	-13	Pass
776.9	777	0.03	CHP	3	776.947	-67.40	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-37.76	-13	Pass
787.1	793	0.1	CHP	5	787.150	-37.29	-13	Pass
793	805	0.00625	CHP	6	796.117	-71.52	-35	Pass
805	810	0.1	CHP	7	807.639	-62.28	-13	Pass



Test Report No.: RF260330B004

Band13_10MHz_64QAM_HCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.987	-66.47	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.07	-13	Pass
776.9	777	0.03	CHP	3	777.000	-37.73	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-36.61	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.82	-13	Pass
793	805	0.00625	CHP	6	793.660	-53.68	-35	Pass
805	810	0.1	CHP	7	805.053	-55.47	-13	Pass



Test Report No.: RF260330B004

LTE BAND17

FREQUENCY STABILITY

Test Result

5MHz

Band: 17 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	706.5	25	0	20	3.4	0.400	0.0006	-2.5 to 2.5	Pass
					4	-0.500	-0.0007	-2.5 to 2.5	Pass
					4.6	-1.200	-0.0017	-2.5 to 2.5	Pass
				5	4	-1.200	-0.0017	-2.5 to 2.5	Pass
				15	4	-1.400	-0.0020	-2.5 to 2.5	Pass
				25	4	1.000	0.0014	-2.5 to 2.5	Pass
				35	4	-1.000	-0.0014	-2.5 to 2.5	Pass
	710	25	0	20	3.4	-1.100	-0.0015	-2.5 to 2.5	Pass
					4	0.100	0.0001	-2.5 to 2.5	Pass
					4.6	-1.400	-0.0020	-2.5 to 2.5	Pass
				5	4	0.000	0.0000	-2.5 to 2.5	Pass
				15	4	1.000	0.0014	-2.5 to 2.5	Pass
				25	4	-1.400	-0.0020	-2.5 to 2.5	Pass
				35	4	-0.300	-0.0004	-2.5 to 2.5	Pass
	713.5	25	0	20	3.4	1.600	0.0022	-2.5 to 2.5	Pass
					4	1.100	0.0015	-2.5 to 2.5	Pass
					4.6	2.200	0.0031	-2.5 to 2.5	Pass
				5	4	2.100	0.0029	-2.5 to 2.5	Pass
				15	4	0.300	0.0004	-2.5 to 2.5	Pass
				25	4	1.900	0.0027	-2.5 to 2.5	Pass
				35	4	-0.400	-0.0006	-2.5 to 2.5	Pass
16QAM	706.5	25	0	20	3.4	-0.400	-0.0006	-2.5 to 2.5	Pass
					4	2.300	0.0033	-2.5 to 2.5	Pass
					4.6	0.700	0.0010	-2.5 to 2.5	Pass
				5	4	-1.400	-0.0020	-2.5 to 2.5	Pass
				15	4	0.500	0.0007	-2.5 to 2.5	Pass
				25	4	1.000	0.0014	-2.5 to 2.5	Pass
				35	4	-0.400	-0.0006	-2.5 to 2.5	Pass
	710	25	0	20	3.4	-1.000	-0.0014	-2.5 to 2.5	Pass
					4	-0.700	-0.0010	-2.5 to 2.5	Pass
					4.6	-1.000	-0.0014	-2.5 to 2.5	Pass
				5	4	-0.700	-0.0010	-2.5 to 2.5	Pass
				15	4	-0.600	-0.0008	-2.5 to 2.5	Pass
				25	4	-1.000	-0.0014	-2.5 to 2.5	Pass
				35	4	-1.400	-0.0020	-2.5 to 2.5	Pass
	713.5	25	0	20	3.4	1.800	0.0025	-2.5 to 2.5	Pass
					4	2.400	0.0034	-2.5 to 2.5	Pass
					4.6	2.400	0.0034	-2.5 to 2.5	Pass
				5	4	1.600	0.0022	-2.5 to 2.5	Pass
				15	4	2.500	0.0035	-2.5 to 2.5	Pass



Test Report No.: RF260330B004

64QAM	706.5	25	0	25	4	3.600	0.0050	-2.5 to 2.5	Pass
				35	4	2.500	0.0035	-2.5 to 2.5	Pass
				20	3.4	-50.000	-0.0708	-2.5 to 2.5	Pass
					4	14.300	0.0202	-2.5 to 2.5	Pass
					4.6	41.600	0.0589	-2.5 to 2.5	Pass
				5	4	29.000	0.0410	-2.5 to 2.5	Pass
				15	4	11.200	0.0159	-2.5 to 2.5	Pass
				25	4	27.100	0.0384	-2.5 to 2.5	Pass
				35	4	-26.300	-0.0372	-2.5 to 2.5	Pass
	710	25	0	20	3.4	6.400	0.0090	-2.5 to 2.5	Pass
					4	-2.700	-0.0038	-2.5 to 2.5	Pass
					4.6	22.100	0.0311	-2.5 to 2.5	Pass
				5	4	-18.300	-0.0258	-2.5 to 2.5	Pass
				15	4	10.900	0.0154	-2.5 to 2.5	Pass
				25	4	-1.600	-0.0023	-2.5 to 2.5	Pass
				35	4	21.500	0.0303	-2.5 to 2.5	Pass
	713.5	25	0	20	3.4	4.000	0.0056	-2.5 to 2.5	Pass
					4	-56.500	-0.0792	-2.5 to 2.5	Pass
					4.6	3.500	0.0049	-2.5 to 2.5	Pass
				5	4	-7.800	-0.0109	-2.5 to 2.5	Pass
				15	4	-23.000	-0.0322	-2.5 to 2.5	Pass
				25	4	-5.700	-0.0080	-2.5 to 2.5	Pass
				35	4	-24.500	-0.0343	-2.5 to 2.5	Pass

10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.4	2.100	0.0030	-2.5 to 2.5	Pass
					4	0.200	0.0003	-2.5 to 2.5	Pass
					4.6	0.600	0.0008	-2.5 to 2.5	Pass
				5	4	2.800	0.0039	-2.5 to 2.5	Pass
				15	4	1.800	0.0025	-2.5 to 2.5	Pass
				25	4	2.100	0.0030	-2.5 to 2.5	Pass
				35	4	1.900	0.0027	-2.5 to 2.5	Pass
	710	50	0	20	3.4	2.300	0.0032	-2.5 to 2.5	Pass
					4	1.100	0.0015	-2.5 to 2.5	Pass
					4.6	1.200	0.0017	-2.5 to 2.5	Pass
				5	4	0.100	0.0001	-2.5 to 2.5	Pass
				15	4	0.400	0.0006	-2.5 to 2.5	Pass
				25	4	-0.800	-0.0011	-2.5 to 2.5	Pass
				35	4	1.300	0.0018	-2.5 to 2.5	Pass
	711	50	0	20	3.4	3.900	0.0055	-2.5 to 2.5	Pass
					4	1.700	0.0024	-2.5 to 2.5	Pass
					4.6	1.600	0.0023	-2.5 to 2.5	Pass
				5	4	1.200	0.0017	-2.5 to 2.5	Pass
				15	4	1.600	0.0023	-2.5 to 2.5	Pass
				25	4	0.500	0.0007	-2.5 to 2.5	Pass
				35	4	1.400	0.0020	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.4	3.400	0.0048	-2.5 to 2.5	Pass
					4	2.100	0.0030	-2.5 to 2.5	Pass
					4.6	1.500	0.0021	-2.5 to 2.5	Pass
				5	4	0.900	0.0013	-2.5 to 2.5	Pass

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				15	4	1.600	0.0023	-2.5 to 2.5	Pass
				25	4	0.600	0.0008	-2.5 to 2.5	Pass
				35	4	2.000	0.0028	-2.5 to 2.5	Pass
				20	3.4	0.500	0.0007	-2.5 to 2.5	Pass
					4	-0.100	-0.0001	-2.5 to 2.5	Pass
					4.6	0.100	0.0001	-2.5 to 2.5	Pass
				5	4	1.100	0.0015	-2.5 to 2.5	Pass
				15	4	0.300	0.0004	-2.5 to 2.5	Pass
				25	4	0.500	0.0007	-2.5 to 2.5	Pass
				35	4	0.600	0.0008	-2.5 to 2.5	Pass
	711	50	0	20	3.4	2.200	0.0031	-2.5 to 2.5	Pass
					4	1.200	0.0017	-2.5 to 2.5	Pass
					4.6	2.100	0.0030	-2.5 to 2.5	Pass
				5	4	0.700	0.0010	-2.5 to 2.5	Pass
				15	4	0.400	0.0006	-2.5 to 2.5	Pass
				25	4	0.600	0.0008	-2.5 to 2.5	Pass
				35	4	0.700	0.0010	-2.5 to 2.5	Pass
64QAM	709	50	0	20	3.4	-17.400	-0.0245	-2.5 to 2.5	Pass
					4	20.400	0.0288	-2.5 to 2.5	Pass
					4.6	21.300	0.0300	-2.5 to 2.5	Pass
				5	4	38.900	0.0549	-2.5 to 2.5	Pass
				15	4	38.400	0.0542	-2.5 to 2.5	Pass
				25	4	9.800	0.0138	-2.5 to 2.5	Pass
				35	4	-14.600	-0.0206	-2.5 to 2.5	Pass
	710	50	0	20	3.4	8.300	0.0117	-2.5 to 2.5	Pass
					4	1.400	0.0020	-2.5 to 2.5	Pass
					4.6	3.000	0.0042	-2.5 to 2.5	Pass
				5	4	17.100	0.0241	-2.5 to 2.5	Pass
				15	4	14.700	0.0207	-2.5 to 2.5	Pass
				25	4	13.000	0.0183	-2.5 to 2.5	Pass
				35	4	-5.900	-0.0083	-2.5 to 2.5	Pass
	711	50	0	20	3.4	2.600	0.0037	-2.5 to 2.5	Pass
					4	-24.200	-0.0340	-2.5 to 2.5	Pass
					4.6	-3.300	-0.0046	-2.5 to 2.5	Pass
				5	4	9.500	0.0134	-2.5 to 2.5	Pass
				15	4	-2.500	-0.0035	-2.5 to 2.5	Pass
				25	4	23.700	0.0333	-2.5 to 2.5	Pass
				35	4	-5.700	-0.0080	-2.5 to 2.5	Pass



Test Report No.: RF260330B004

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

OBW

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.534	/	Pass
		710	25	0	4.526	/	Pass
		713.5	25	0	4.513	/	Pass
	16QAM	706.5	25	0	4.515	/	Pass
		710	25	0	4.519	/	Pass
		713.5	25	0	4.520	/	Pass
	64QAM	706.5	25	0	4.522	/	Pass
		710	25	0	4.515	/	Pass
		713.5	25	0	4.513	/	Pass
10	QPSK	709	50	0	9.017	/	Pass
		710	50	0	9.002	/	Pass
		711	50	0	8.990	/	Pass
	16QAM	709	50	0	9.021	/	Pass
		710	50	0	8.970	/	Pass
		711	50	0	8.970	/	Pass
	64QAM	709	50	0	9.007	/	Pass
		710	50	0	9.002	/	Pass
		711	50	0	8.991	/	Pass

XDB

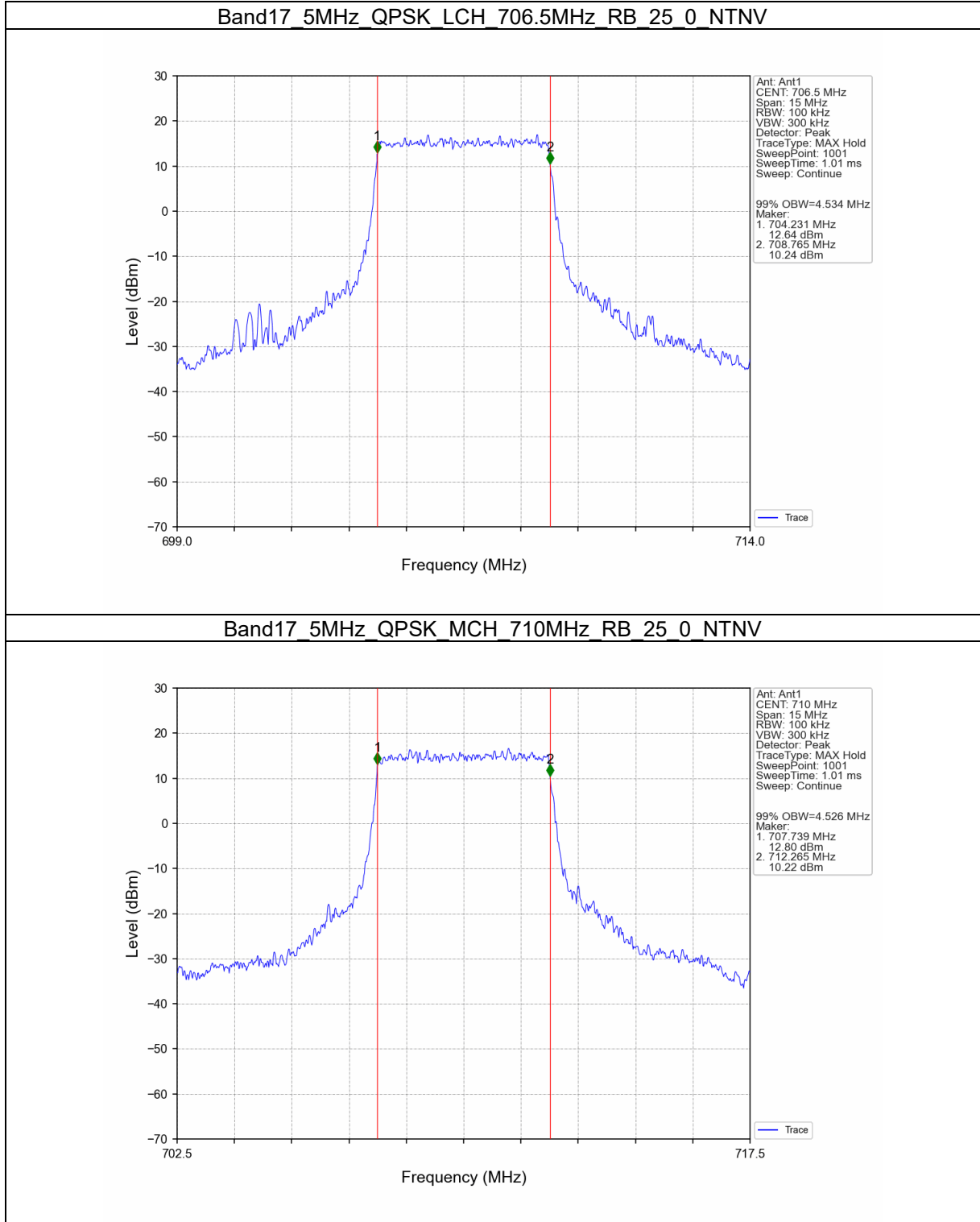
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.216	/	Pass
		710	25	0	5.155	/	Pass
		713.5	25	0	5.127	/	Pass
	16QAM	706.5	25	0	5.178	/	Pass
		710	25	0	5.118	/	Pass
		713.5	25	0	5.150	/	Pass
	64QAM	706.5	25	0	5.179	/	Pass
		710	25	0	5.199	/	Pass
		713.5	25	0	5.143	/	Pass
10	QPSK	709	50	0	10.043	/	Pass
		710	50	0	9.934	/	Pass
		711	50	0	9.973	/	Pass
	16QAM	709	50	0	10.088	/	Pass
		710	50	0	9.884	/	Pass
		711	50	0	9.887	/	Pass
	64QAM	709	50	0	9.946	/	Pass
		710	50	0	9.906	/	Pass
		711	50	0	9.984	/	Pass



Test Report No.: RF260330B004

Test Graph

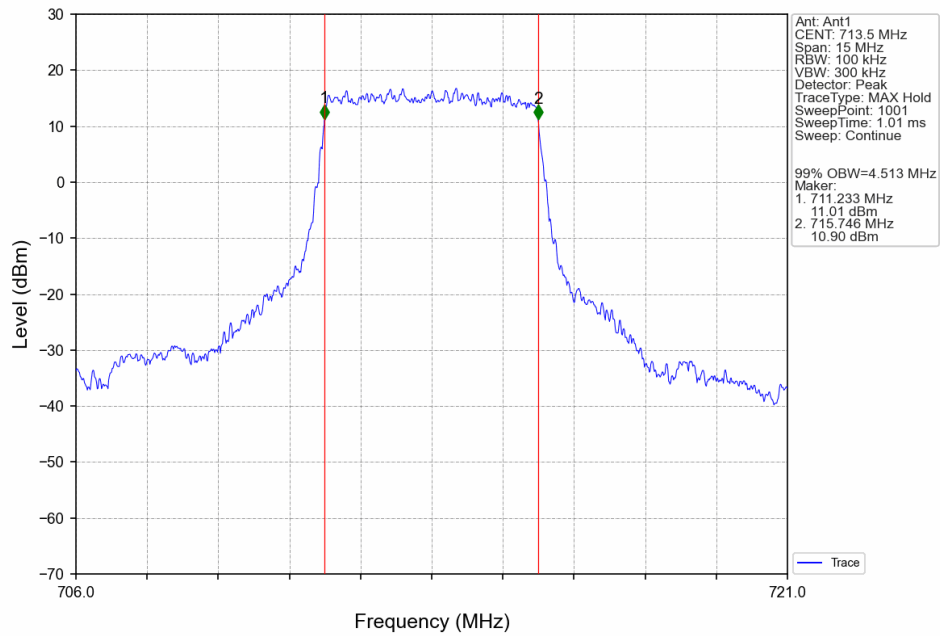
OBW



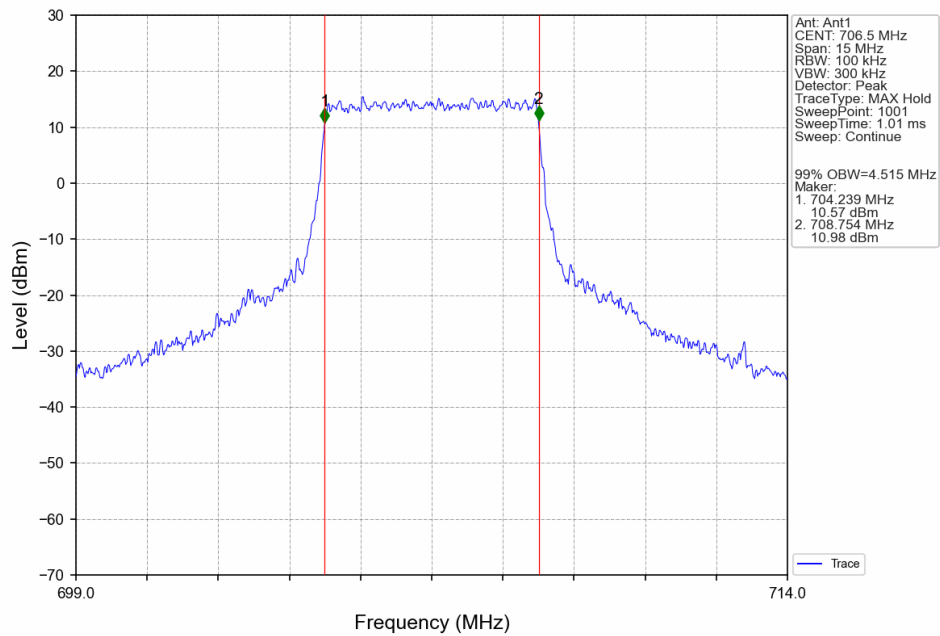


Test Report No.: RF260330B004

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



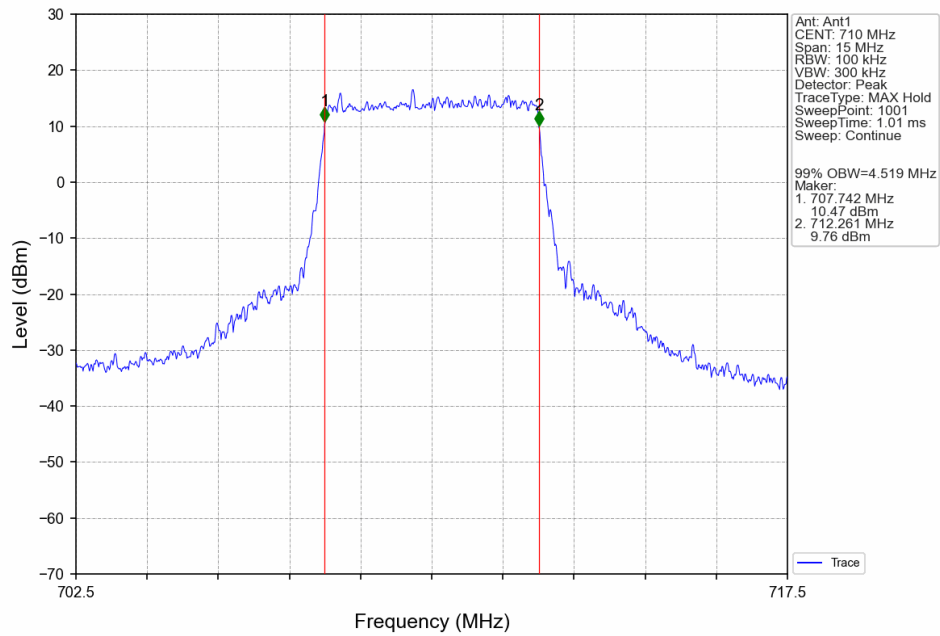
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



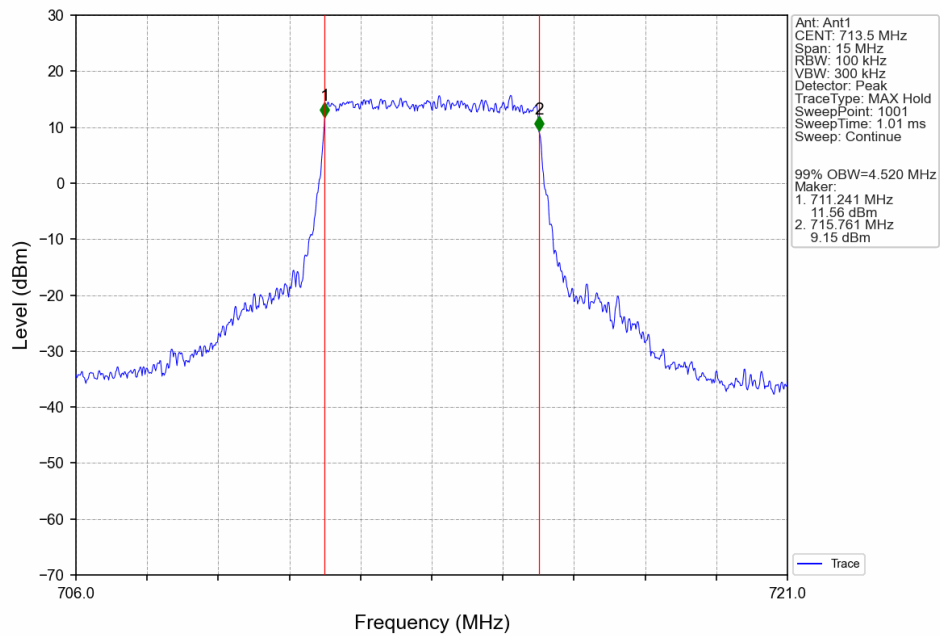


Test Report No.: RF260330B004

Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



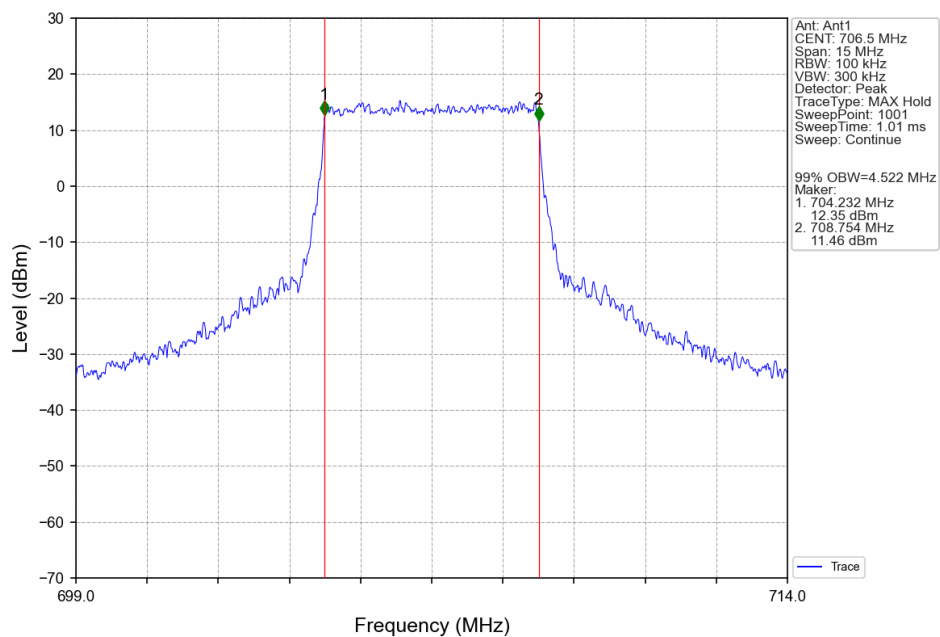
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



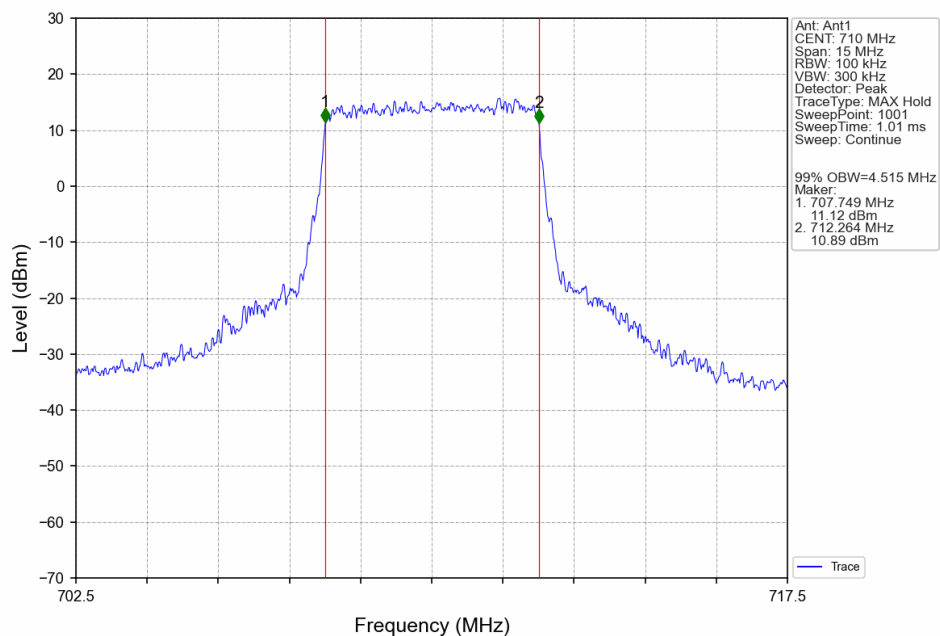


Test Report No.: RF260330B004

Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



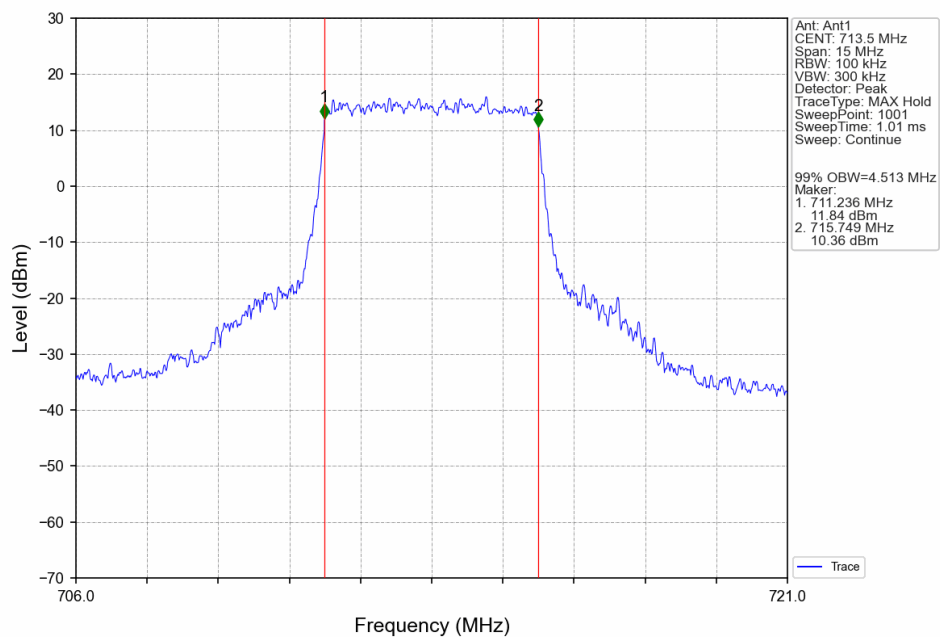
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



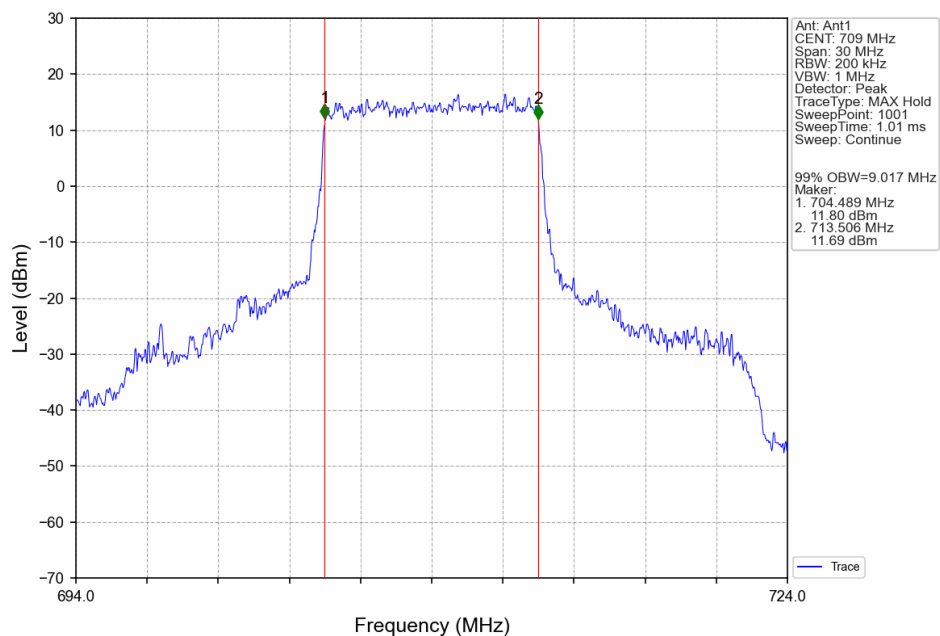


Test Report No.: RF260330B004

Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



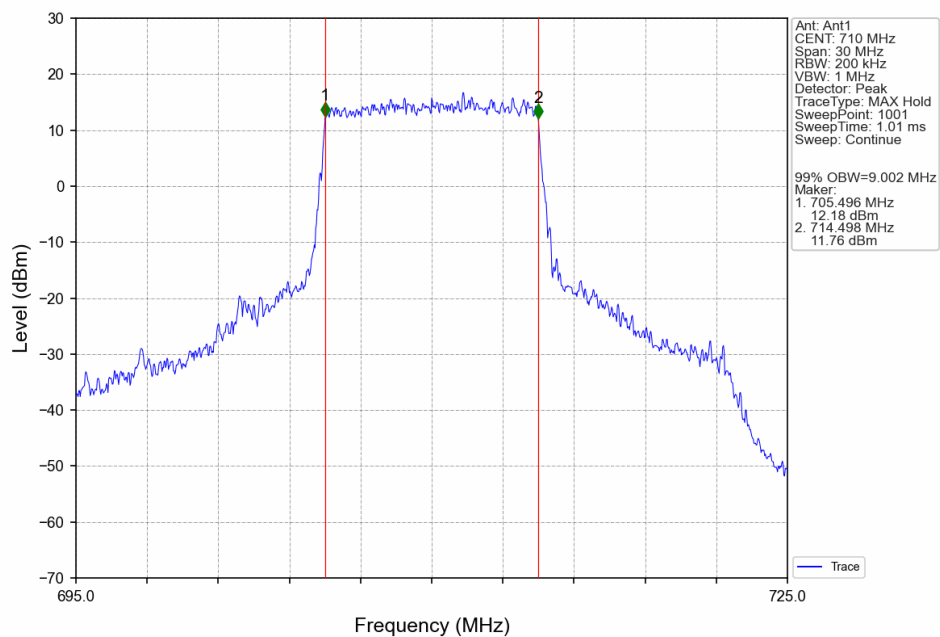
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



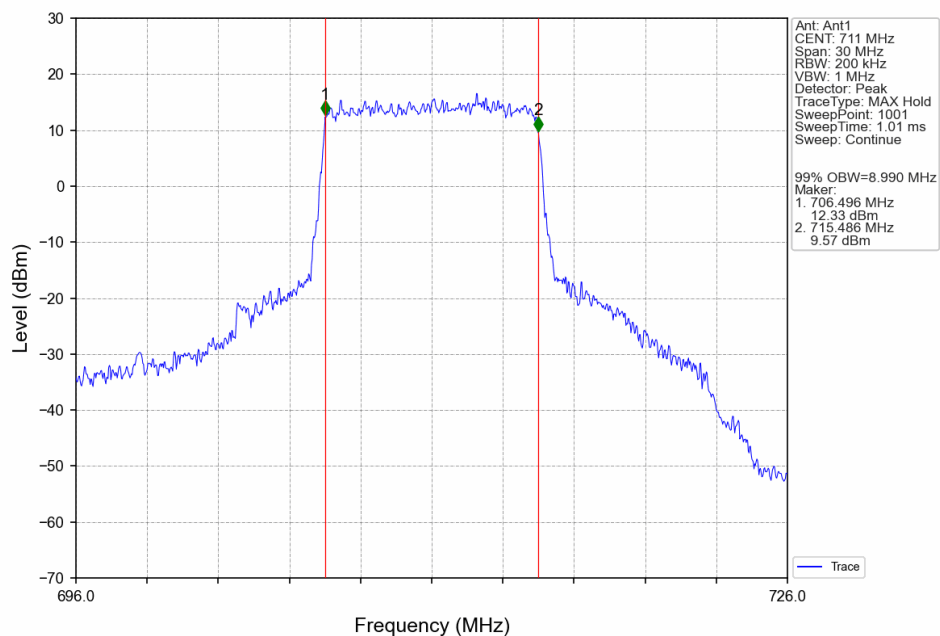


Test Report No.: RF260330B004

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



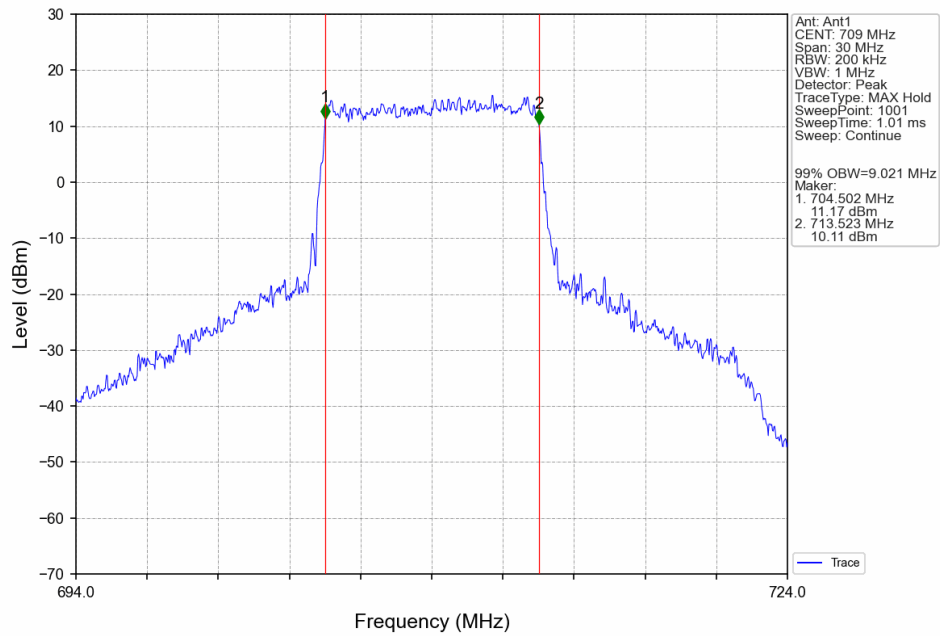
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



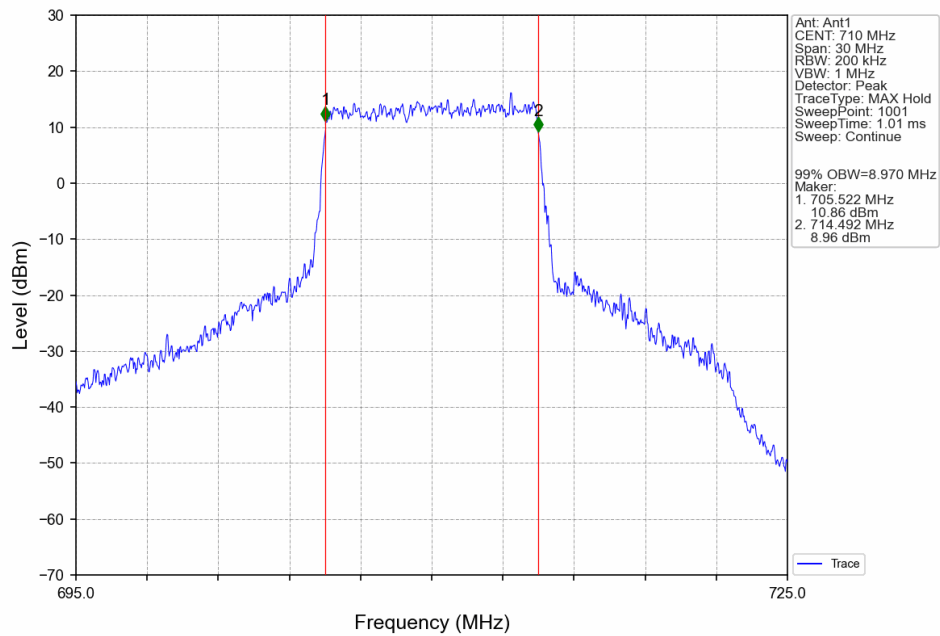


Test Report No.: RF260330B004

Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



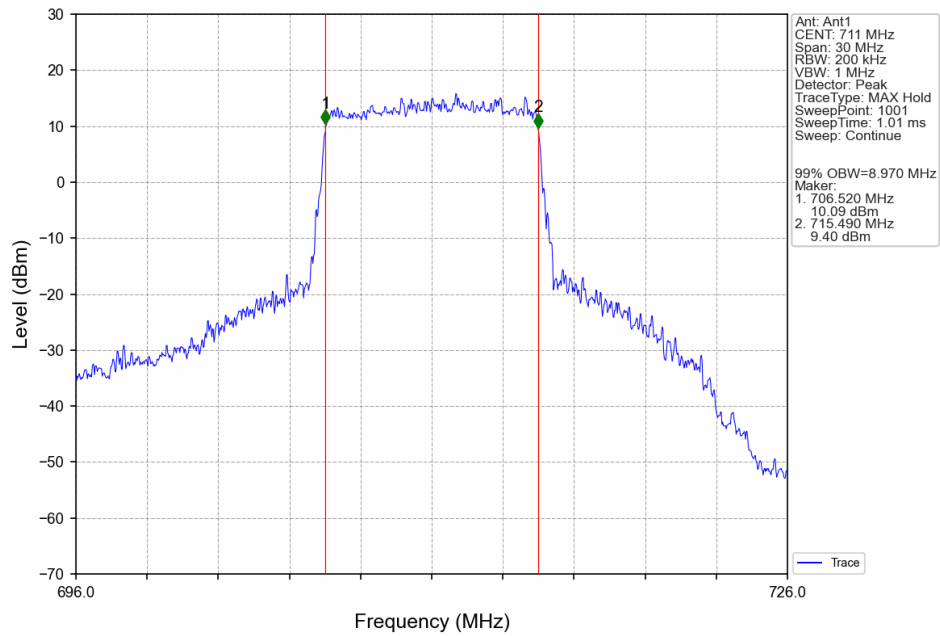
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



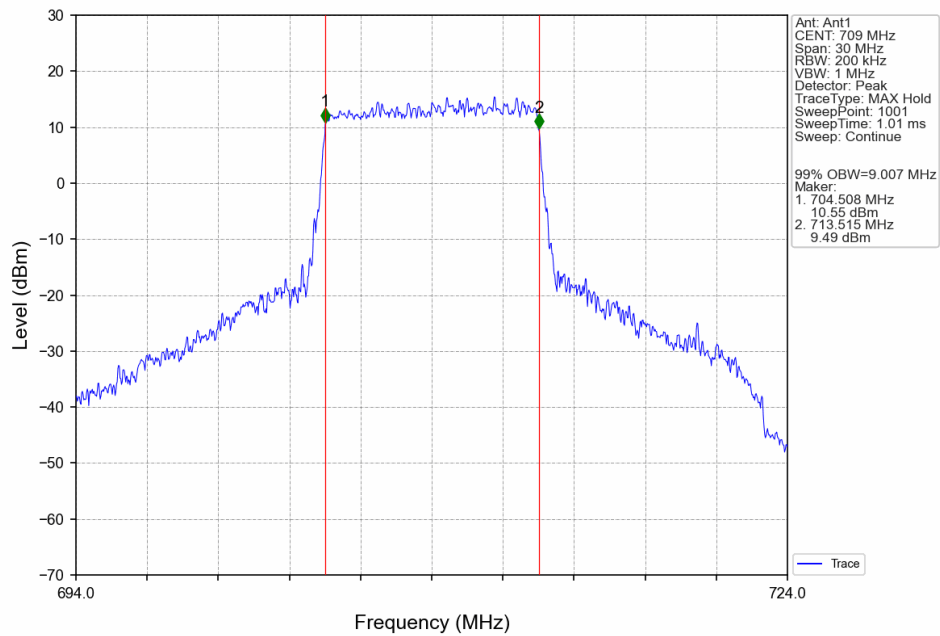


Test Report No.: RF260330B004

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



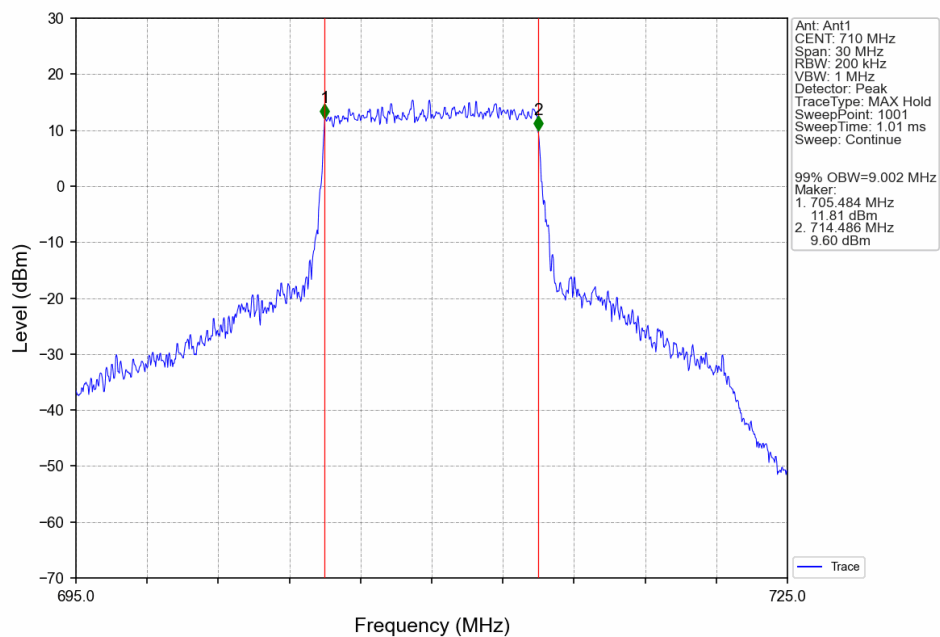
Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



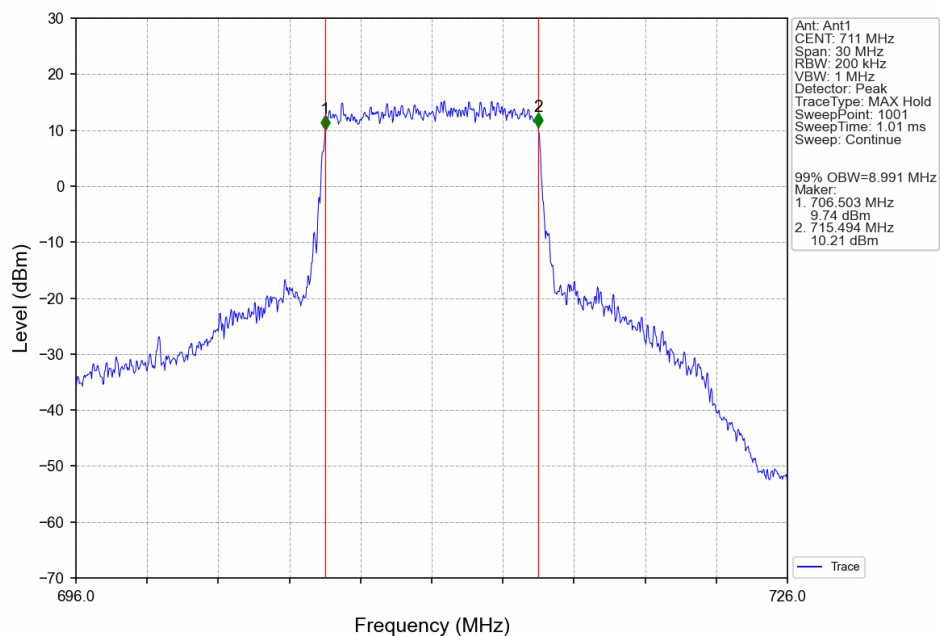


Test Report No.: RF260330B004

Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



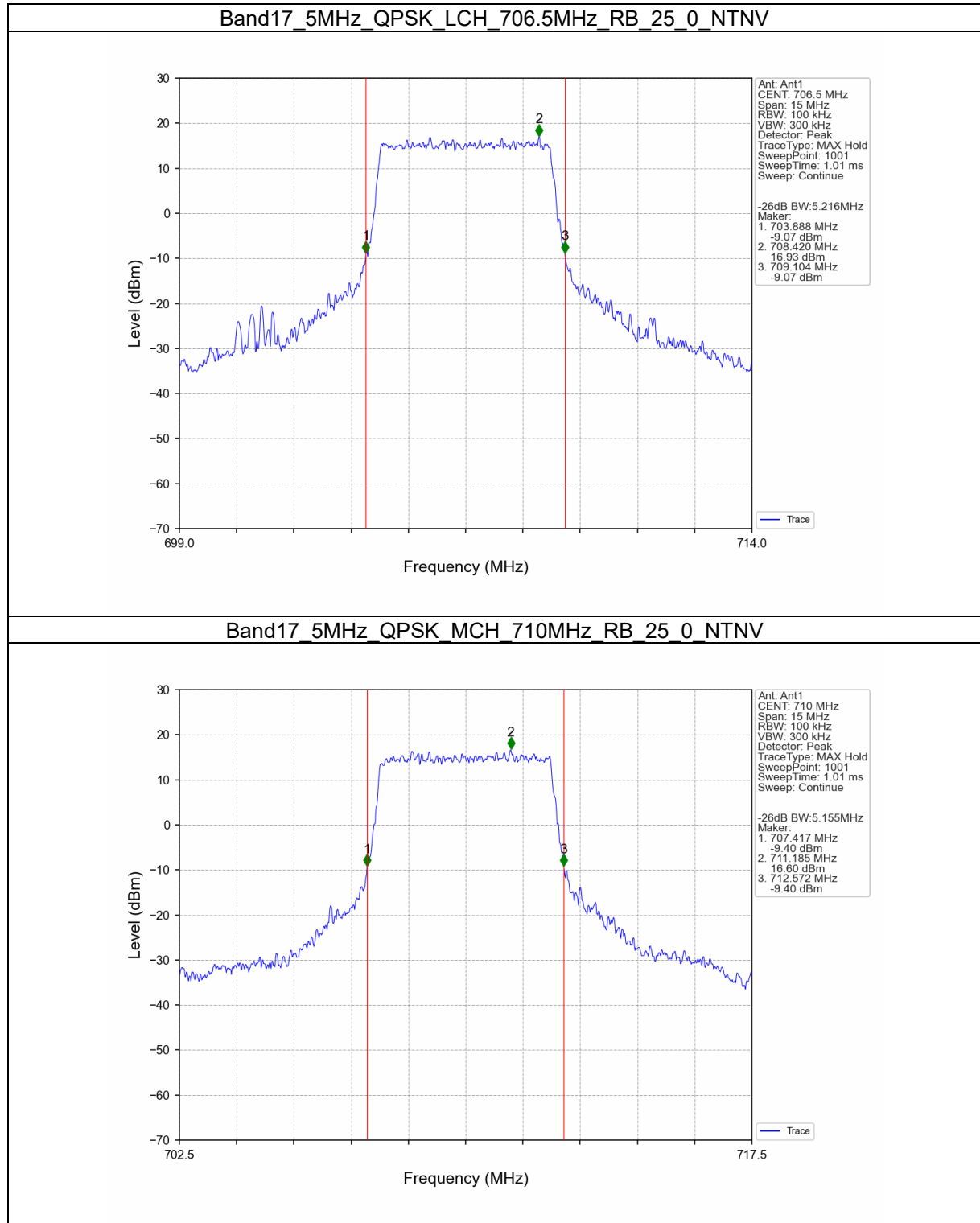
Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV





Test Report No.: RF260330B004

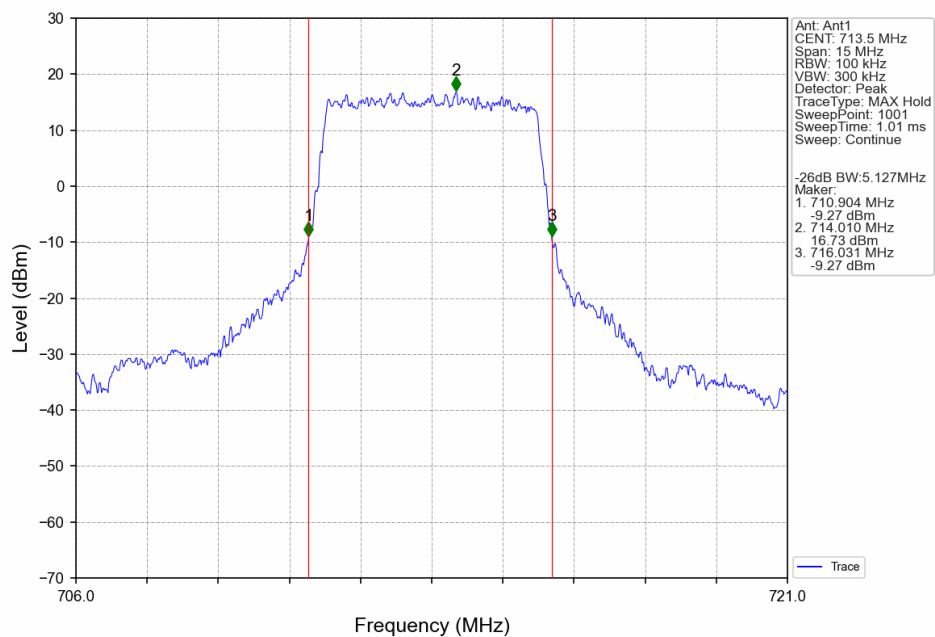
XDB



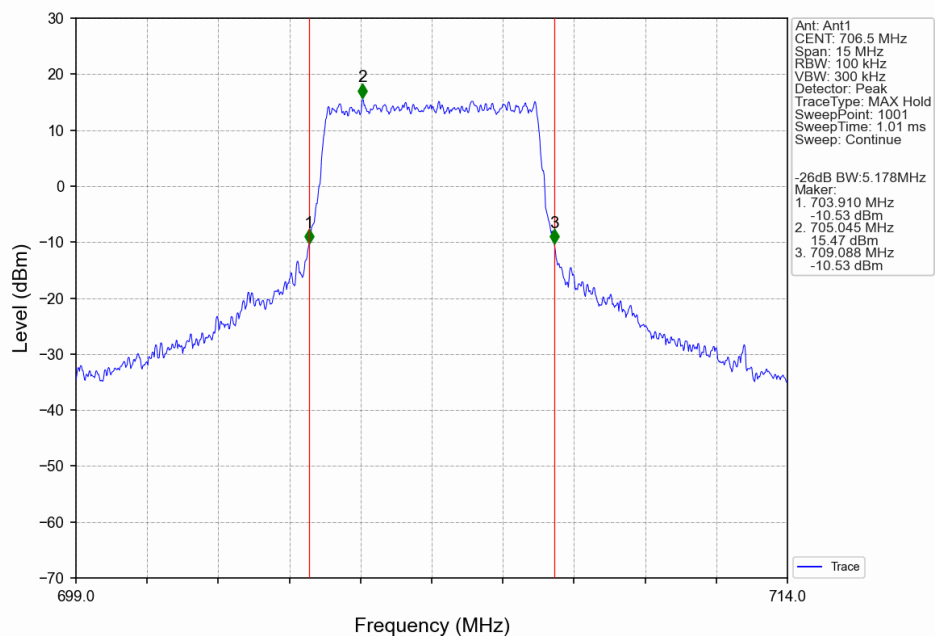


Test Report No.: RF260330B004

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



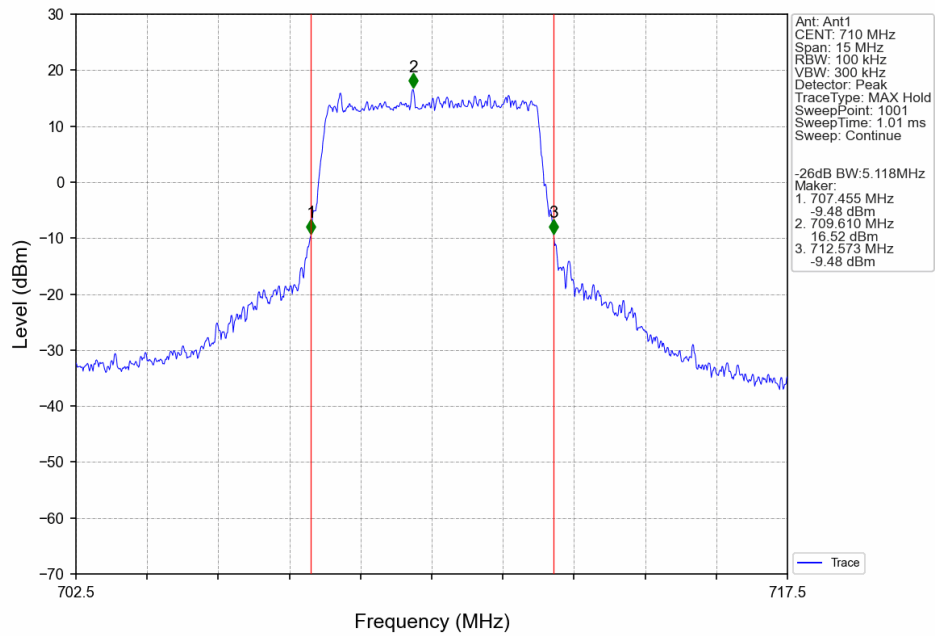
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



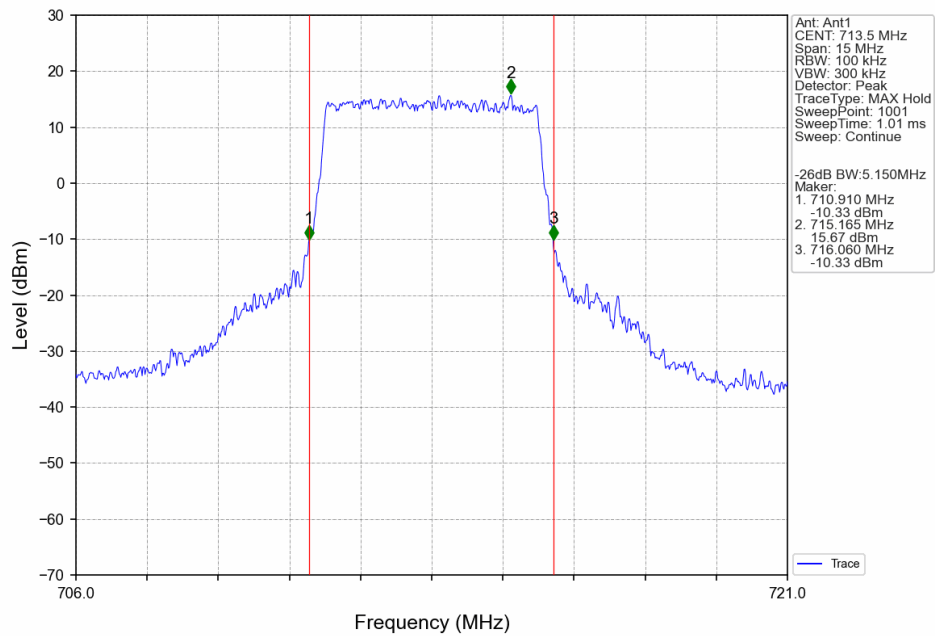


Test Report No.: RF260330B004

Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



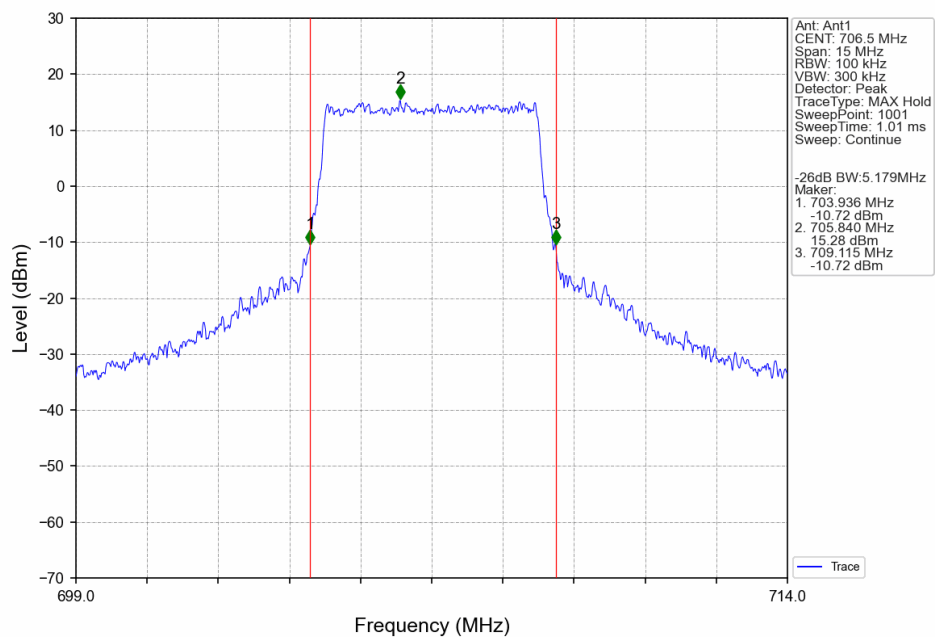
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



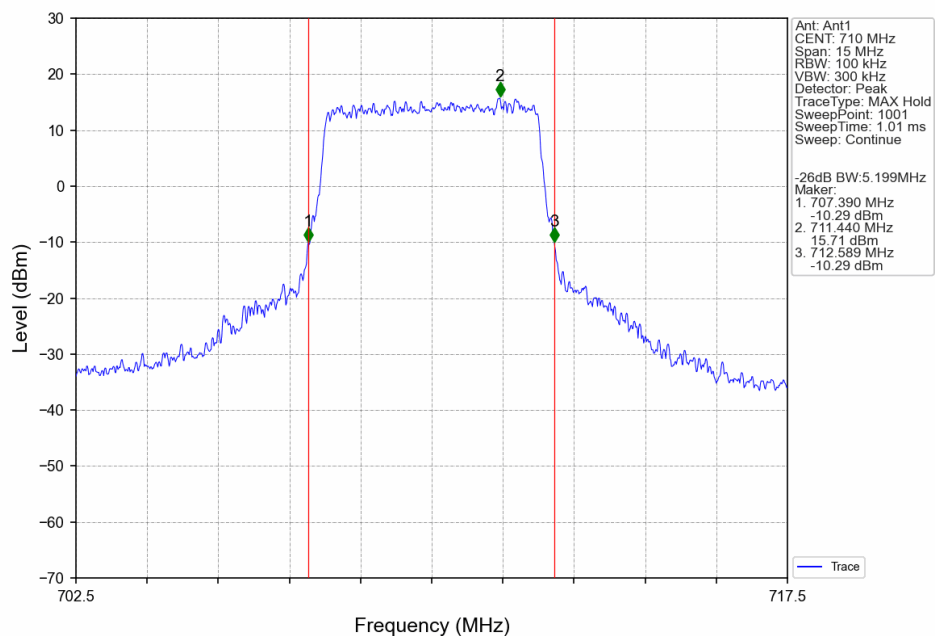


Test Report No.: RF260330B004

Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



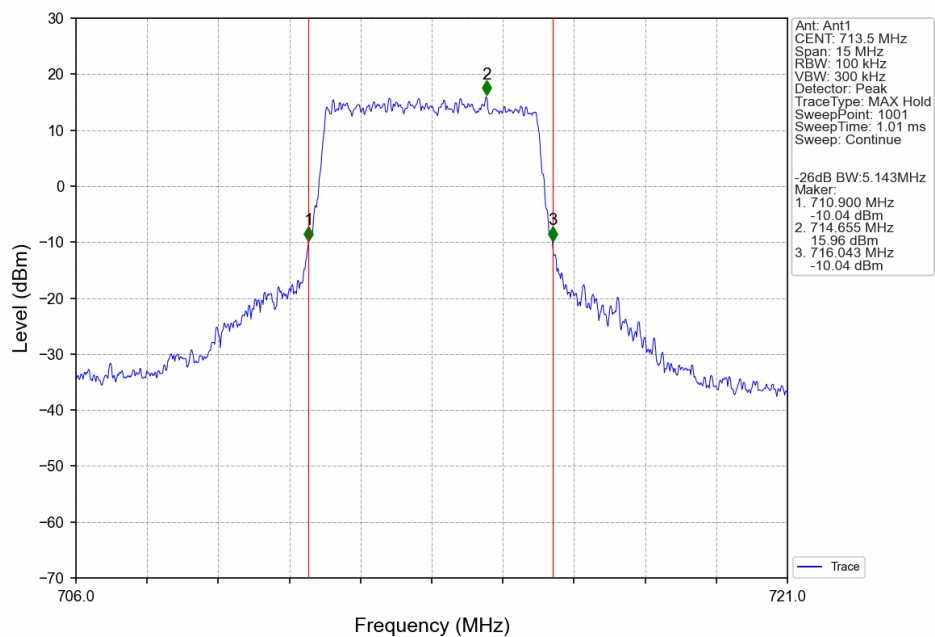
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



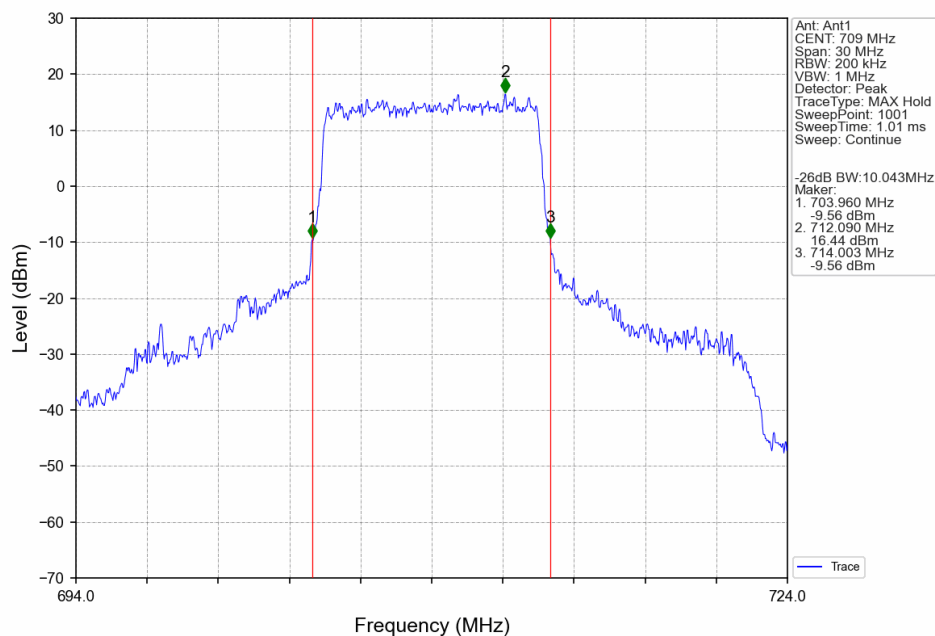


Test Report No.: RF260330B004

Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



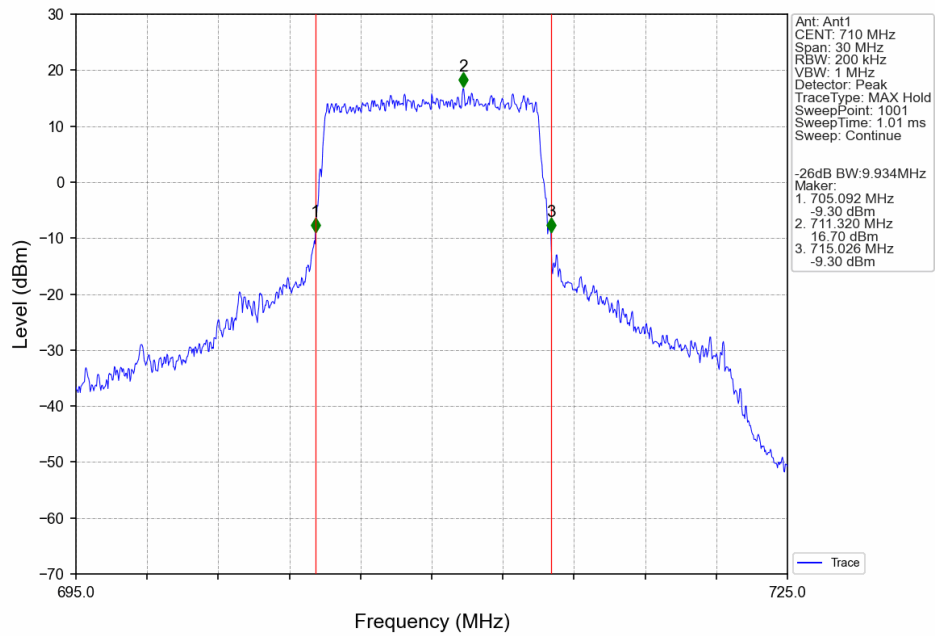
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



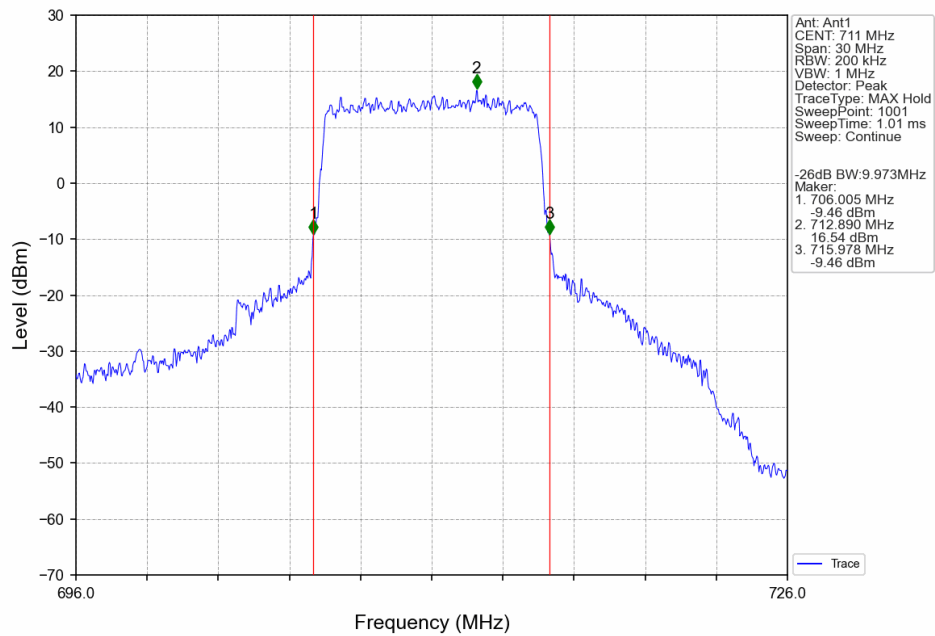


Test Report No.: RF260330B004

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



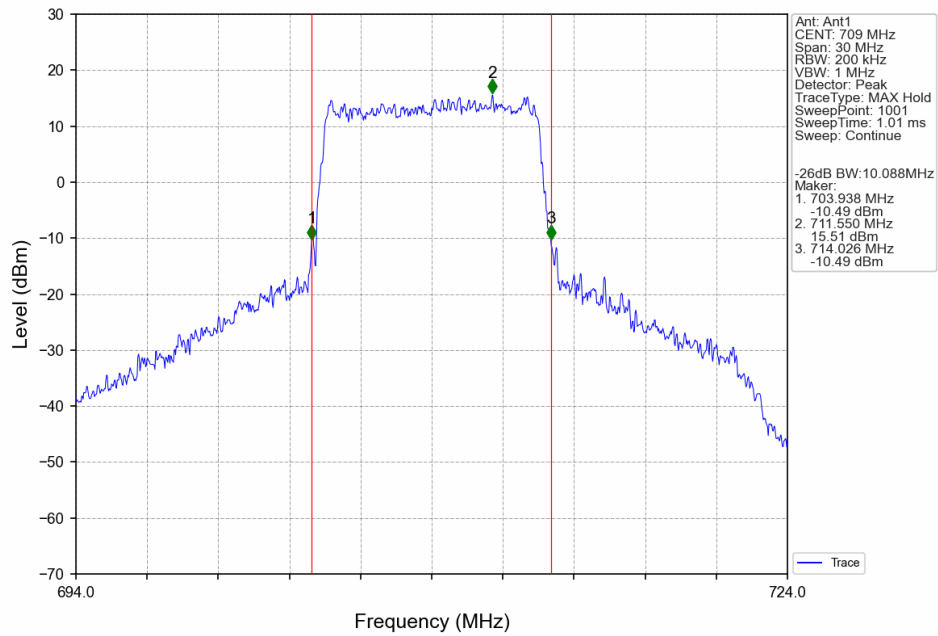
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



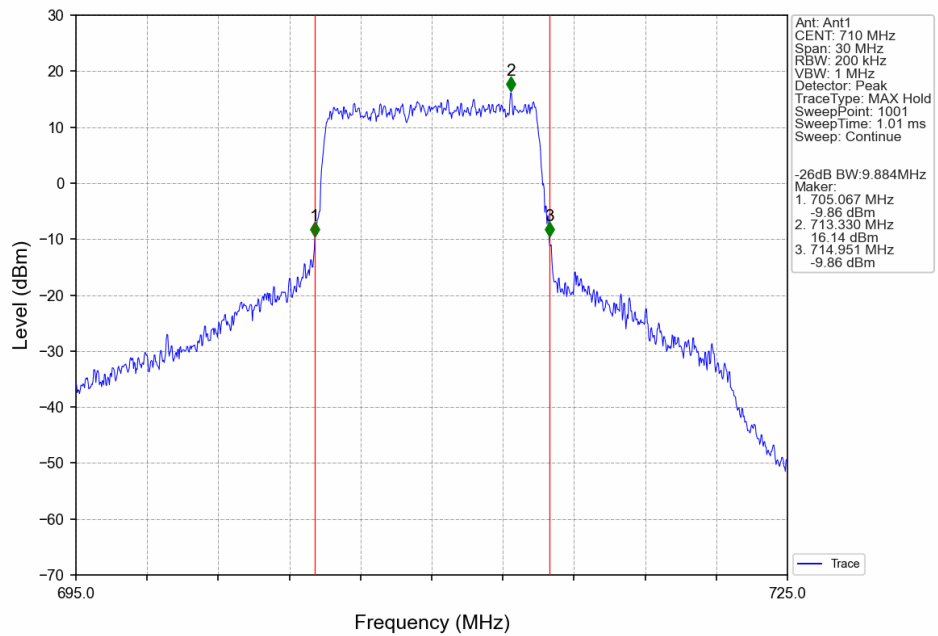


Test Report No.: RF260330B004

Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



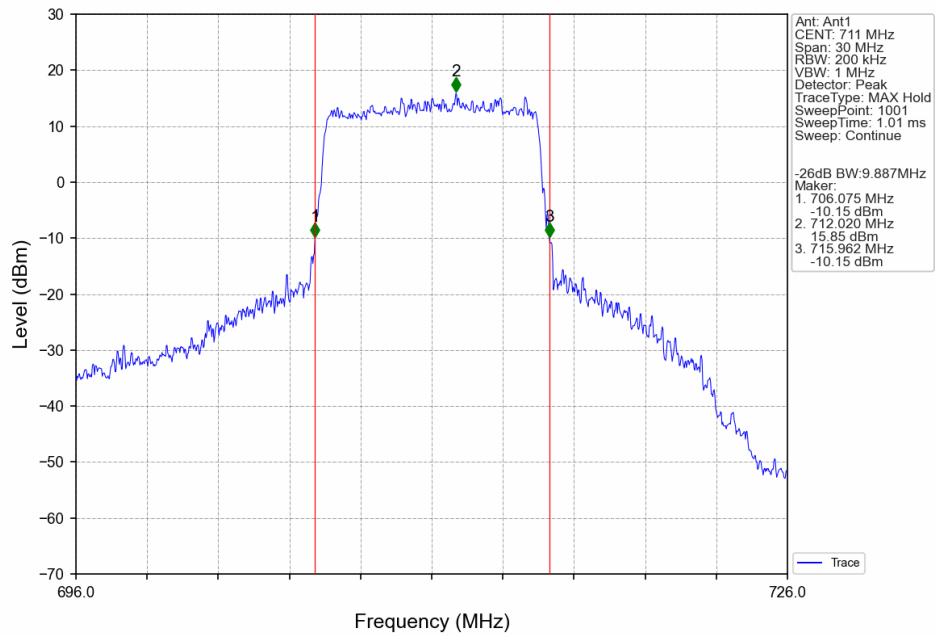
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



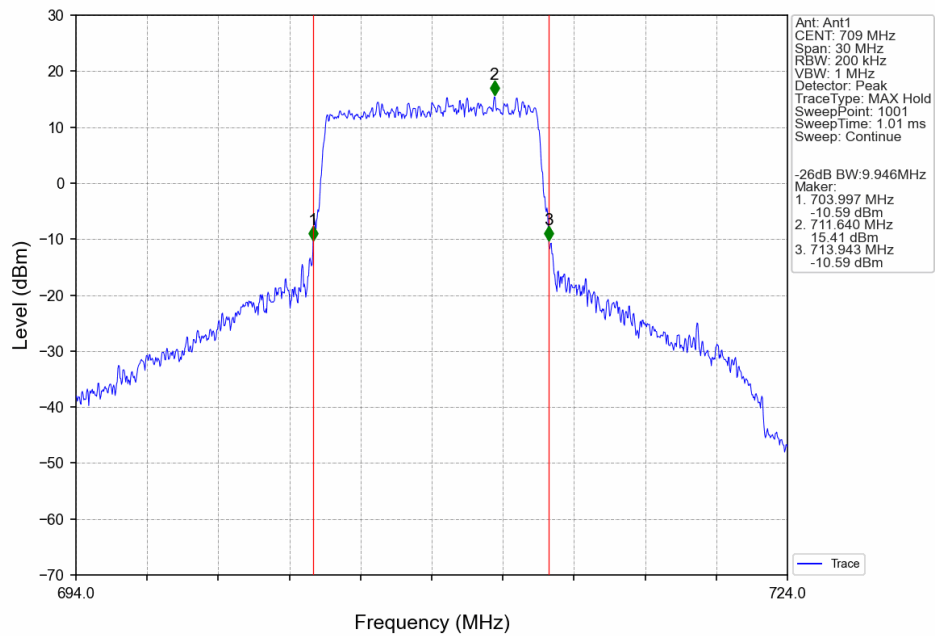


Test Report No.: RF260330B004

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



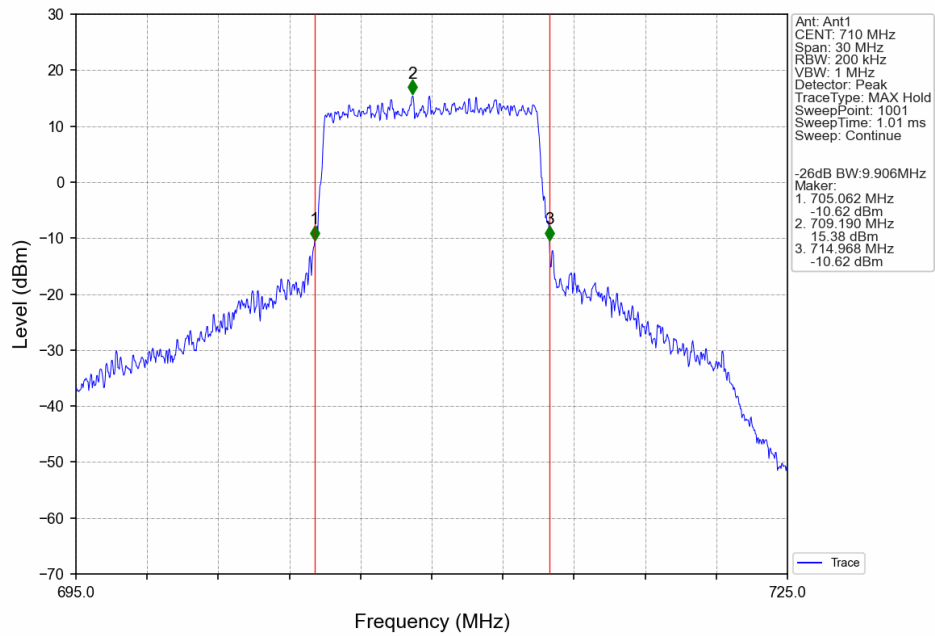
Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



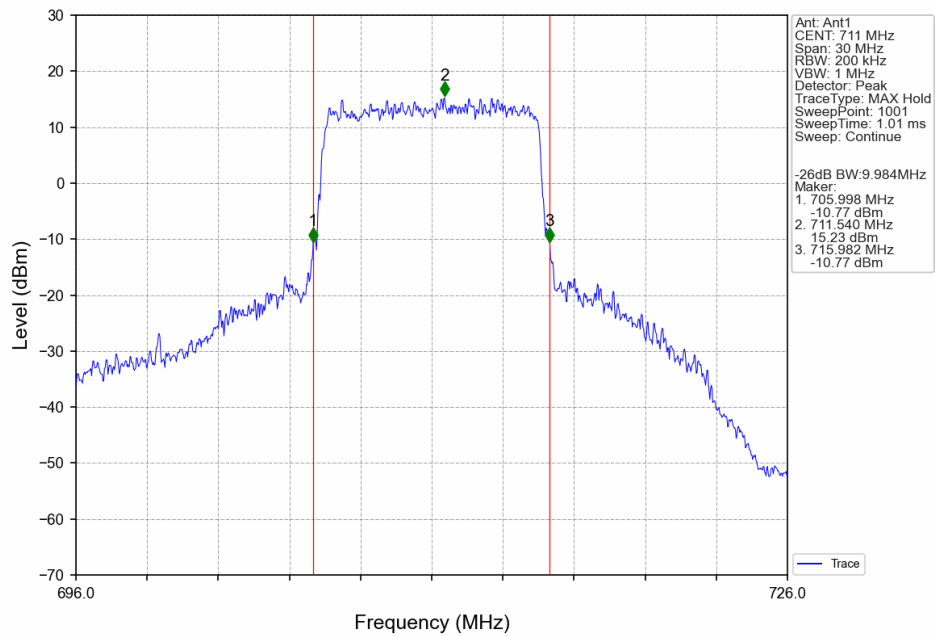


Test Report No.: RF260330B004

Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV





Test Report No.: RF260330B004

PEAK-TO-AVERAGE RATIO (CCDF)

Test Result

5MHz

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	4.52	<=13	Pass
	710	25	0	4.50	<=13	Pass
	713.5	25	0	4.58	<=13	Pass
16QAM	706.5	25	0	5.62	<=13	Pass
	710	25	0	5.72	<=13	Pass
	713.5	25	0	5.70	<=13	Pass
64QAM	706.5	25	0	5.60	<=13	Pass
	710	25	0	5.74	<=13	Pass
	713.5	25	0	5.70	<=13	Pass

10MHz

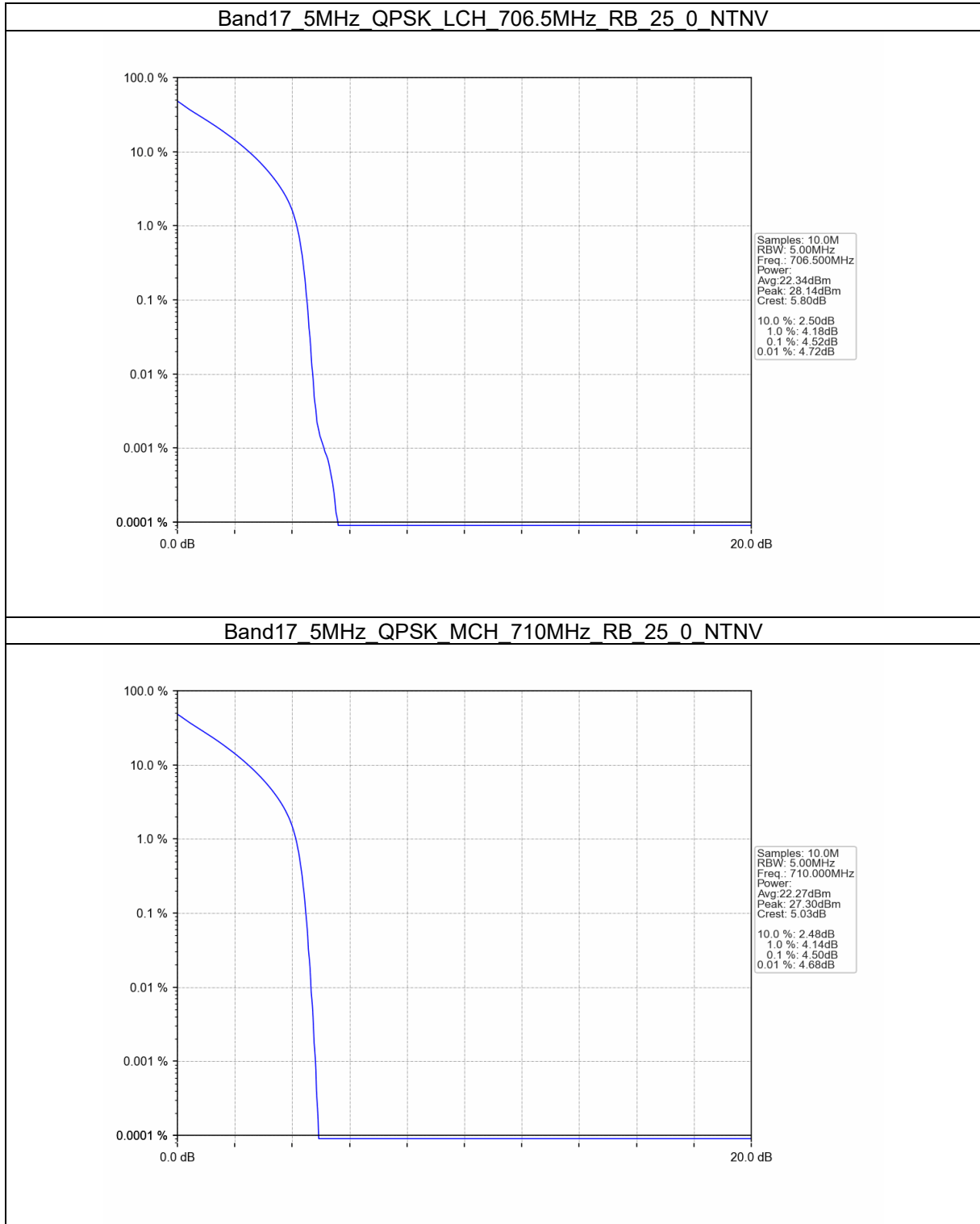
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	4.56	<=13	Pass
	710	50	0	4.54	<=13	Pass
	711	50	0	4.50	<=13	Pass
16QAM	709	50	0	5.70	<=13	Pass
	710	50	0	5.62	<=13	Pass
	711	50	0	5.60	<=13	Pass
64QAM	709	50	0	5.64	<=13	Pass
	710	50	0	5.64	<=13	Pass
	711	50	0	5.58	<=13	Pass



Test Report No.: RF260330B004

Test Graph

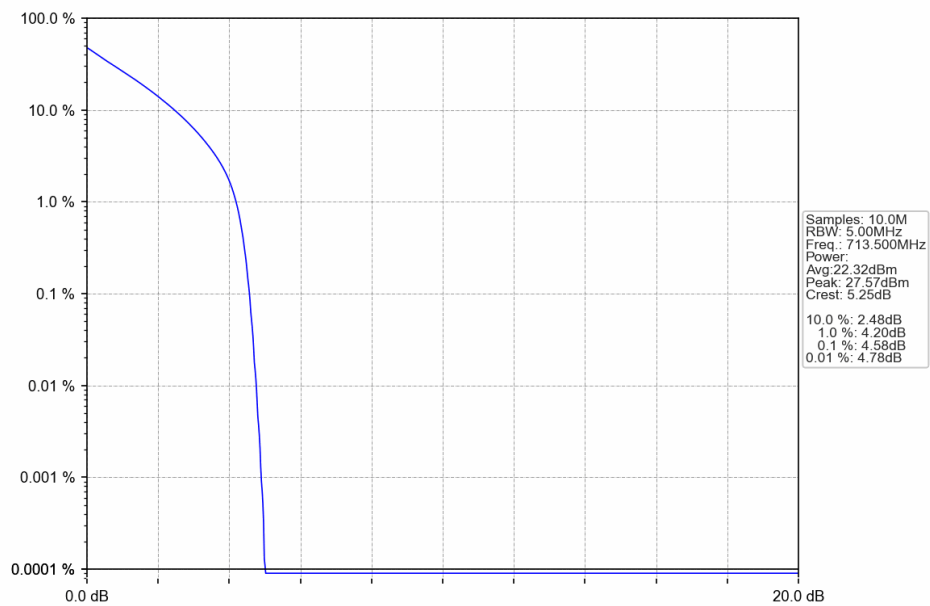
5MHz



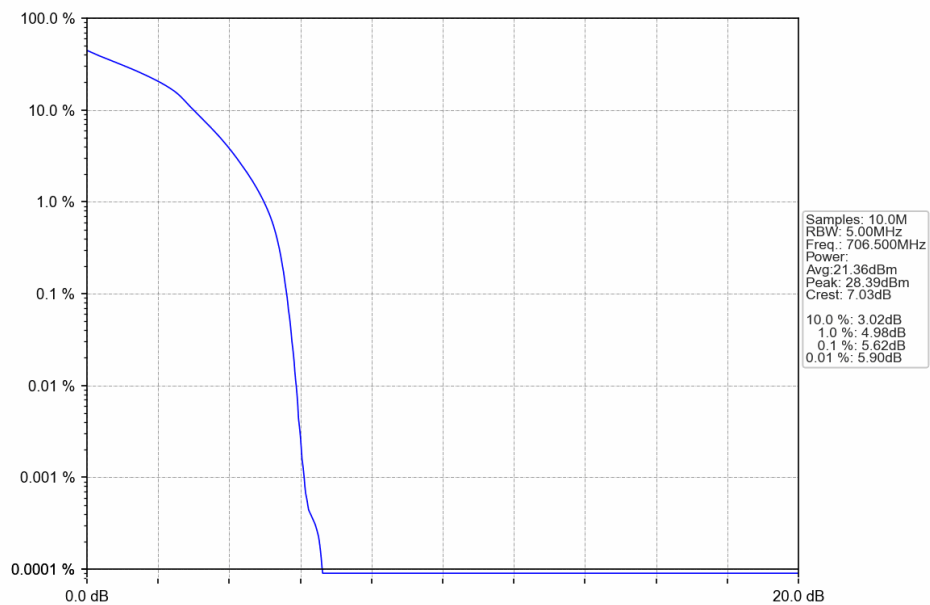


Test Report No.: RF260330B004

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



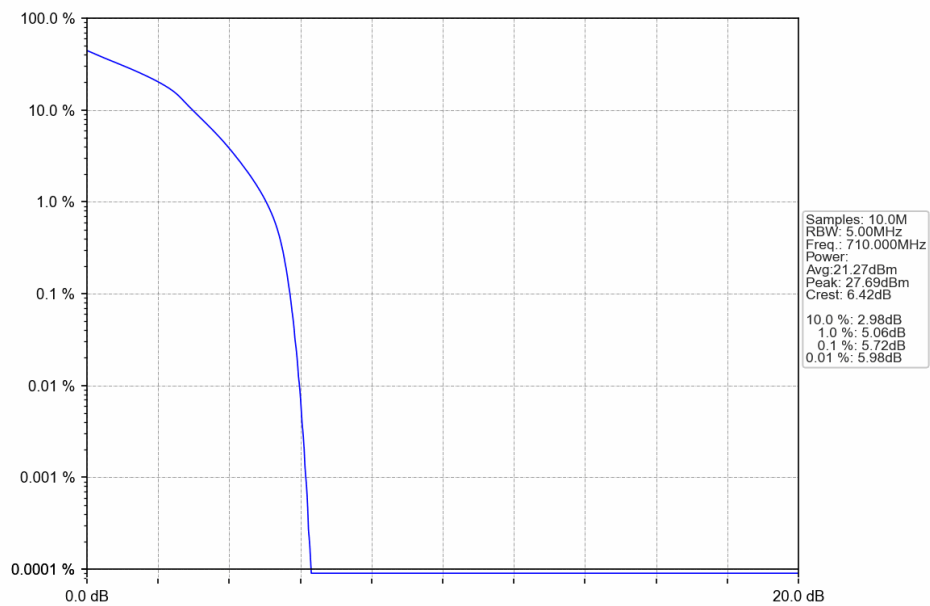
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



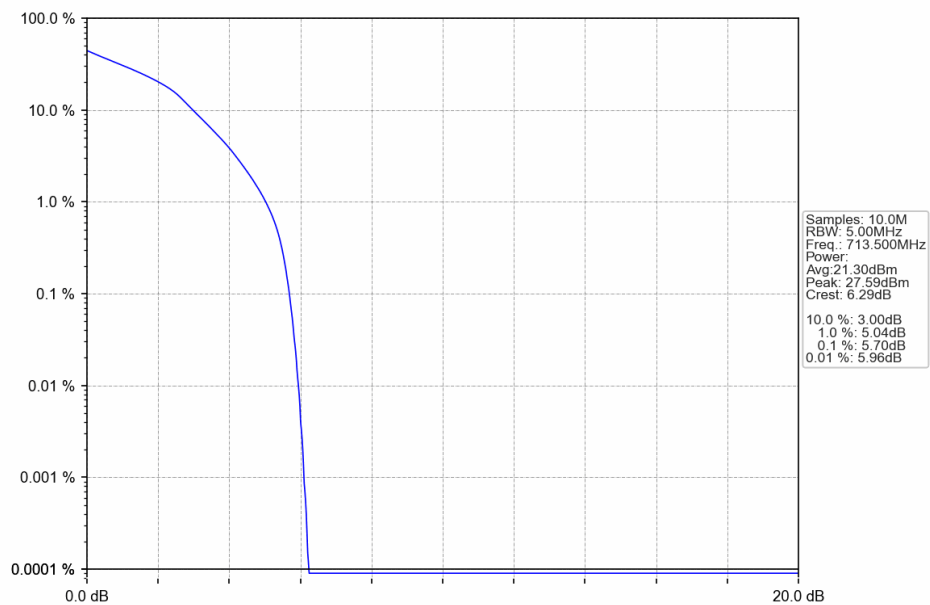


Test Report No.: RF260330B004

Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



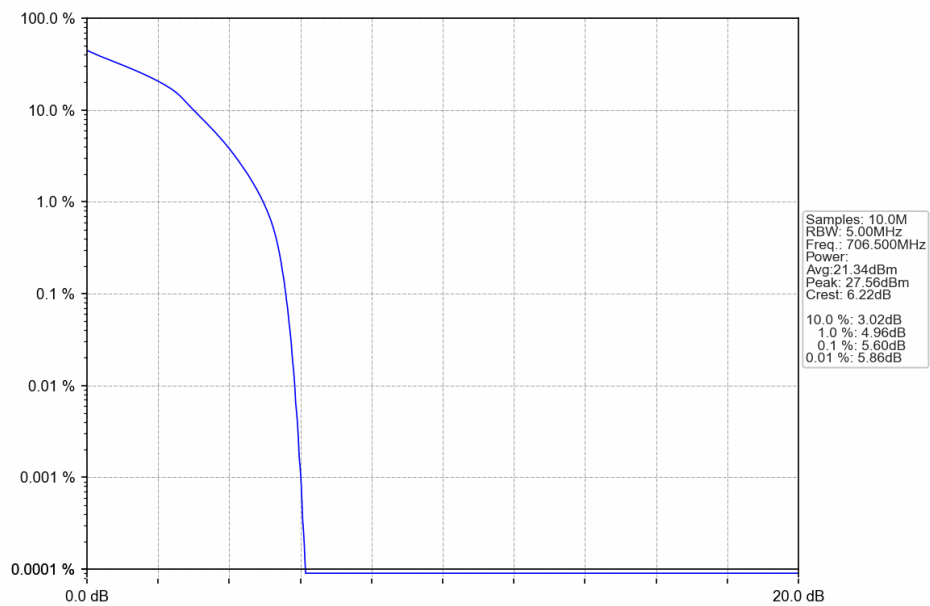
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



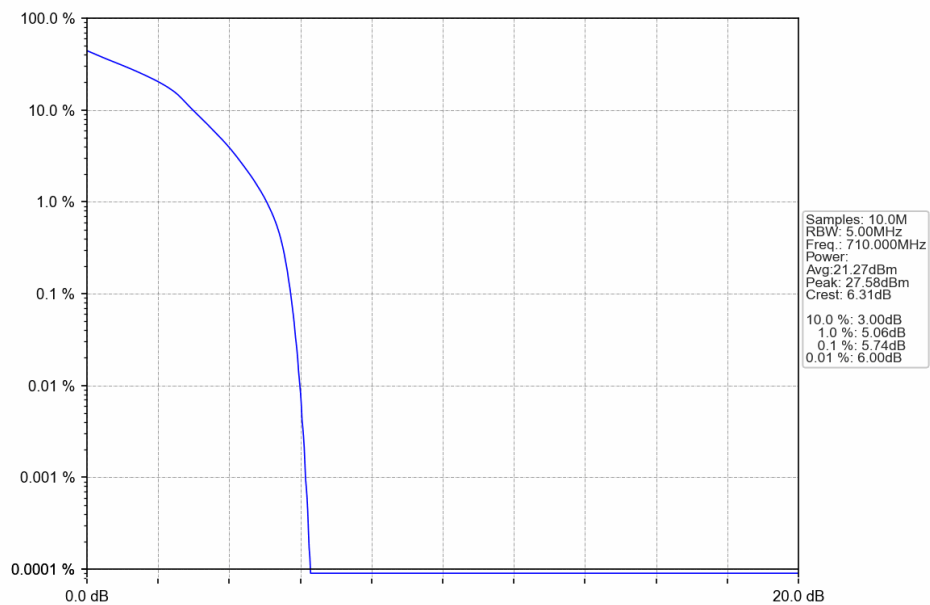


Test Report No.: RF260330B004

Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV

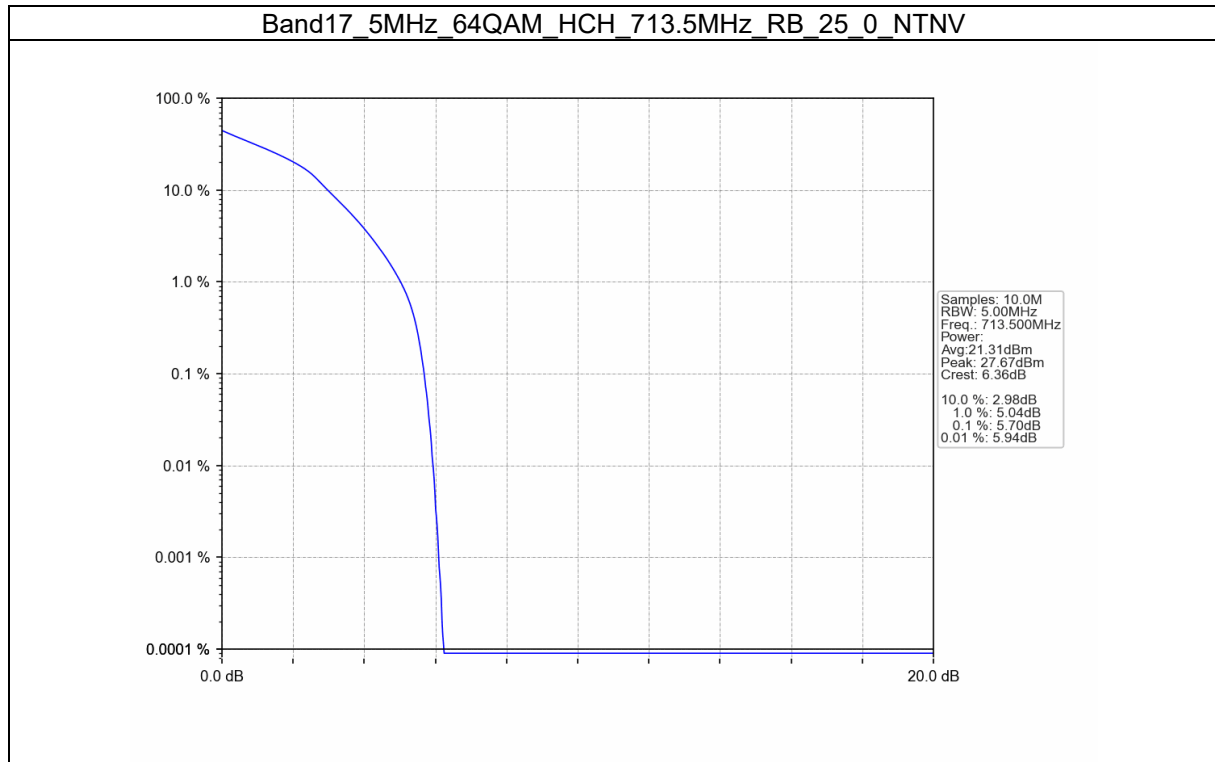


Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV





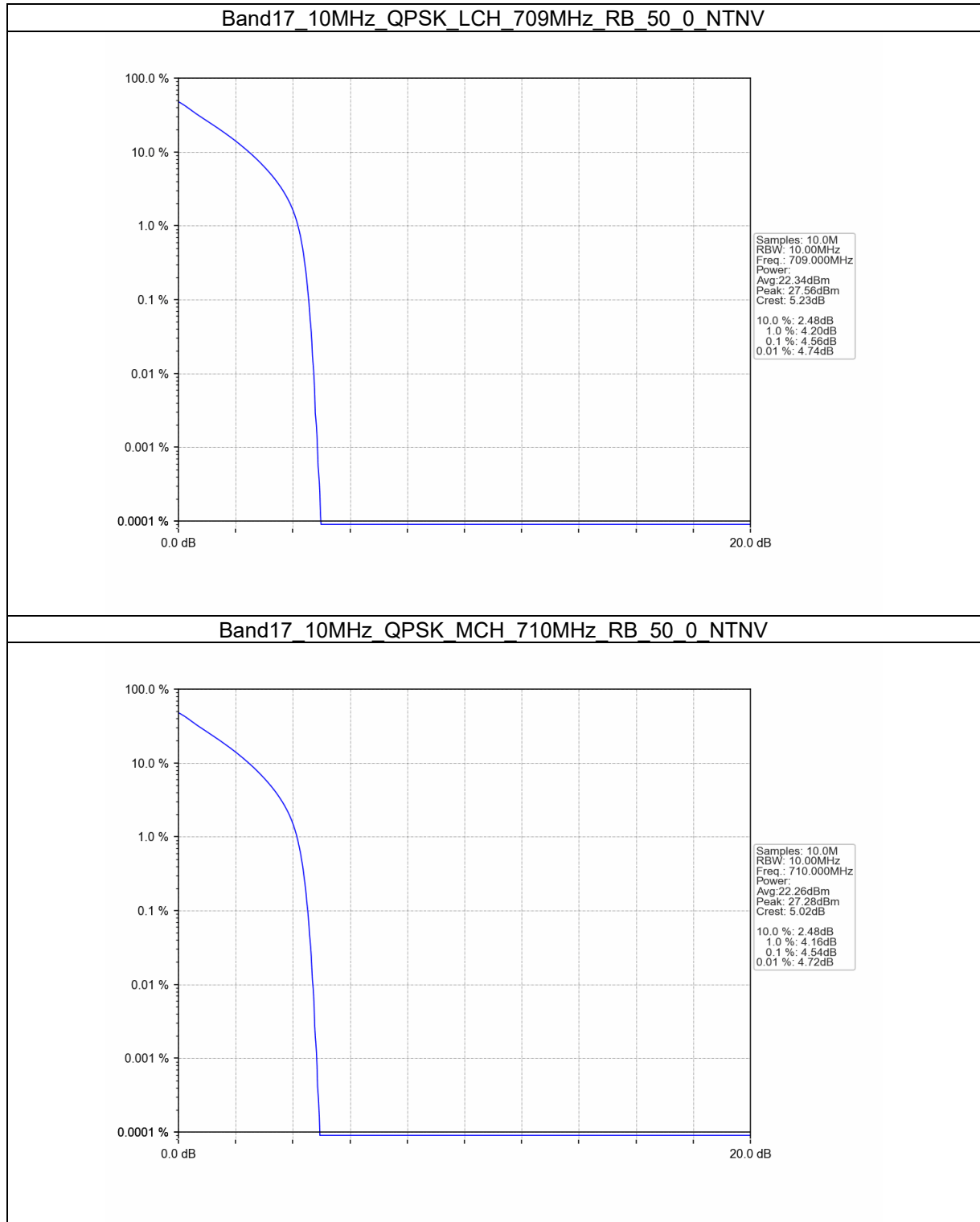
Test Report No.: RF260330B004





Test Report No.: RF260330B004

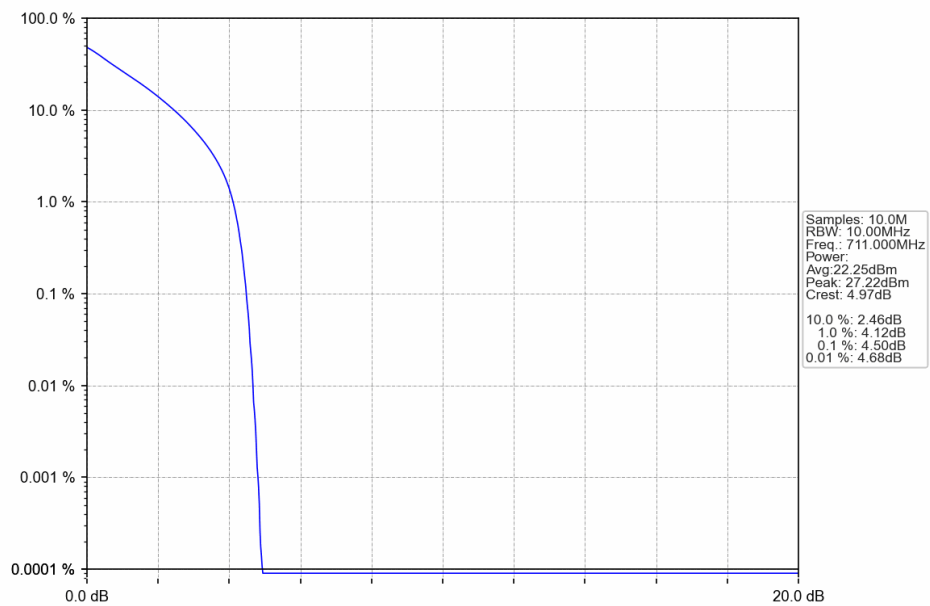
10MHz



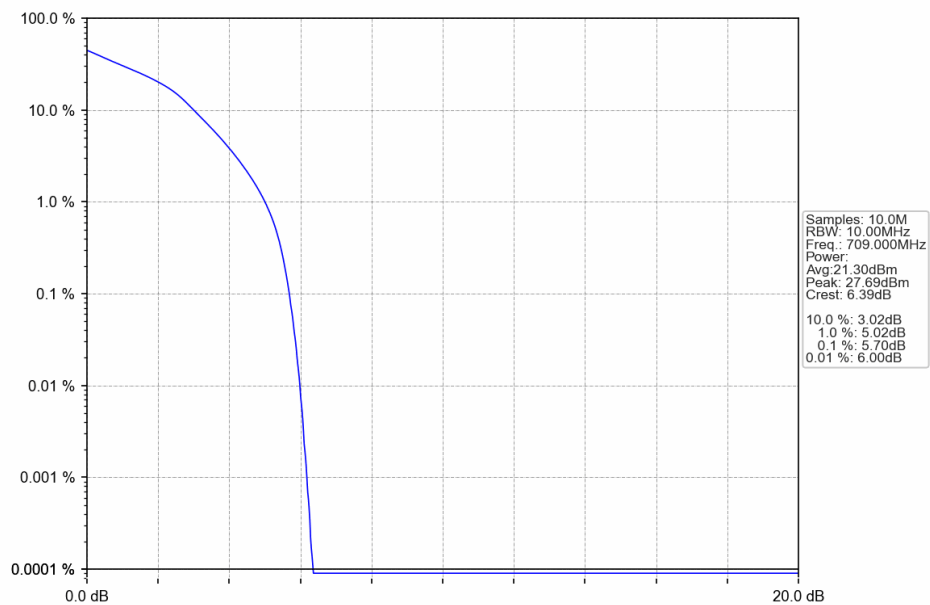


Test Report No.: RF260330B004

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



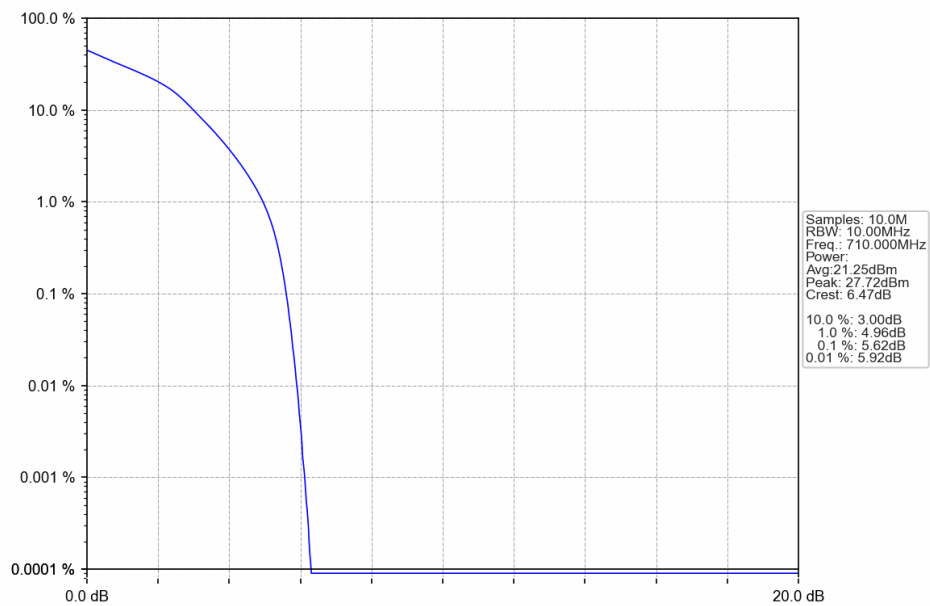
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



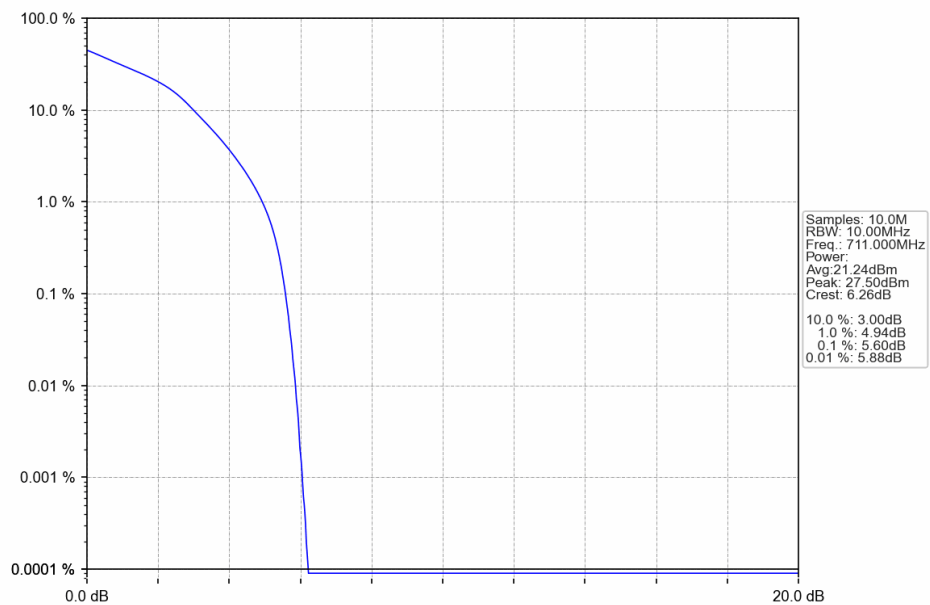


Test Report No.: RF260330B004

Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



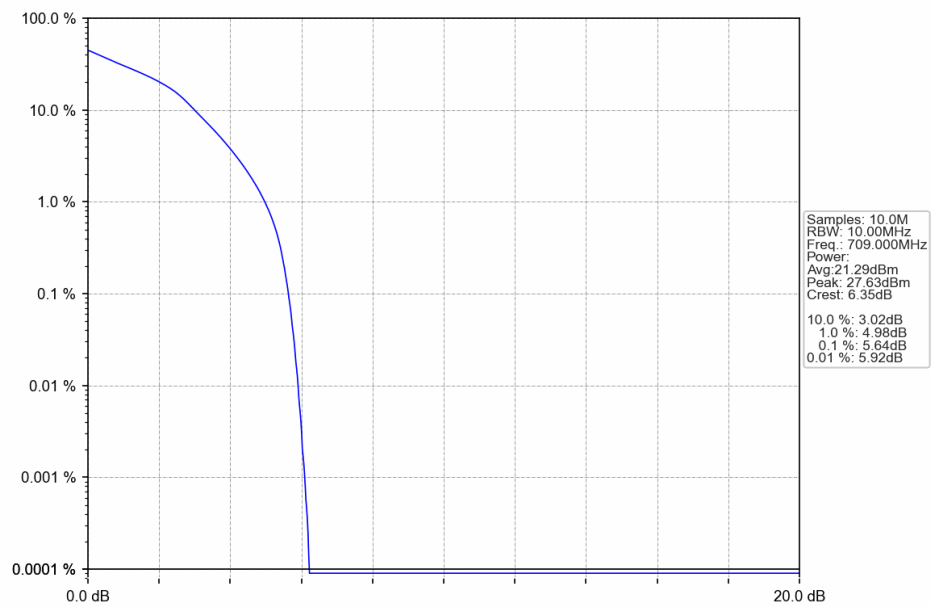
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



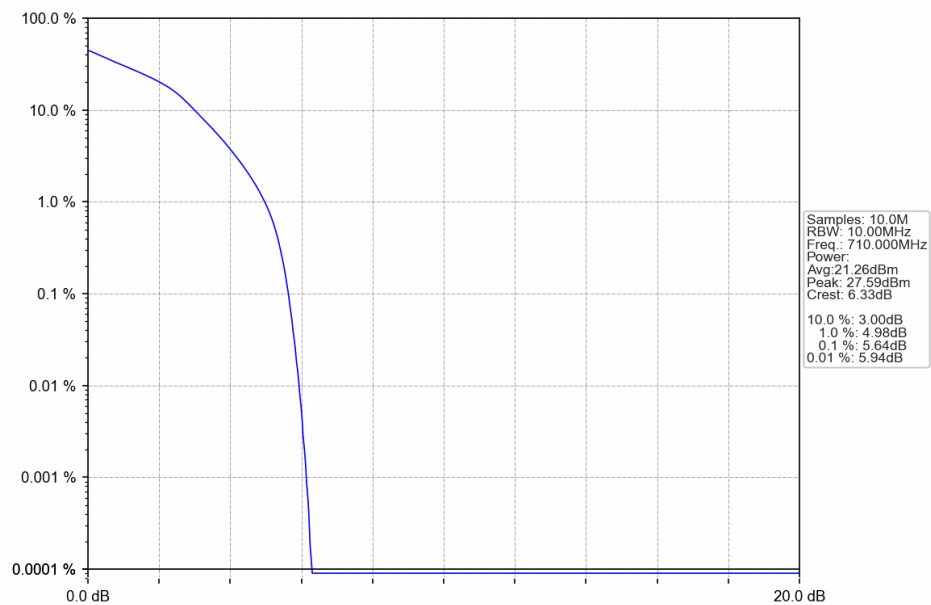


Test Report No.: RF260330B004

Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV

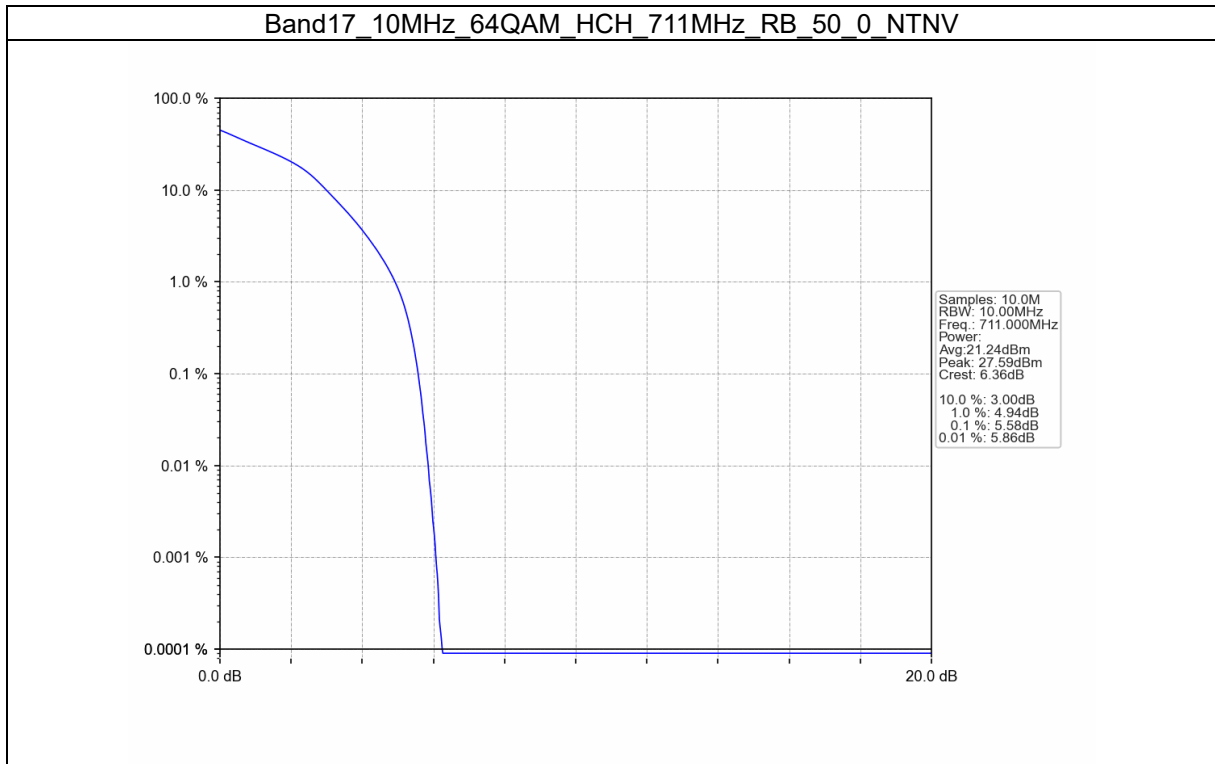


Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV





Test Report No.: RF260330B004





Test Report No.: RF260330B004

BAND EDGE AND SPURIOUS EMISSION

Test Result

5MHz

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

10MHz

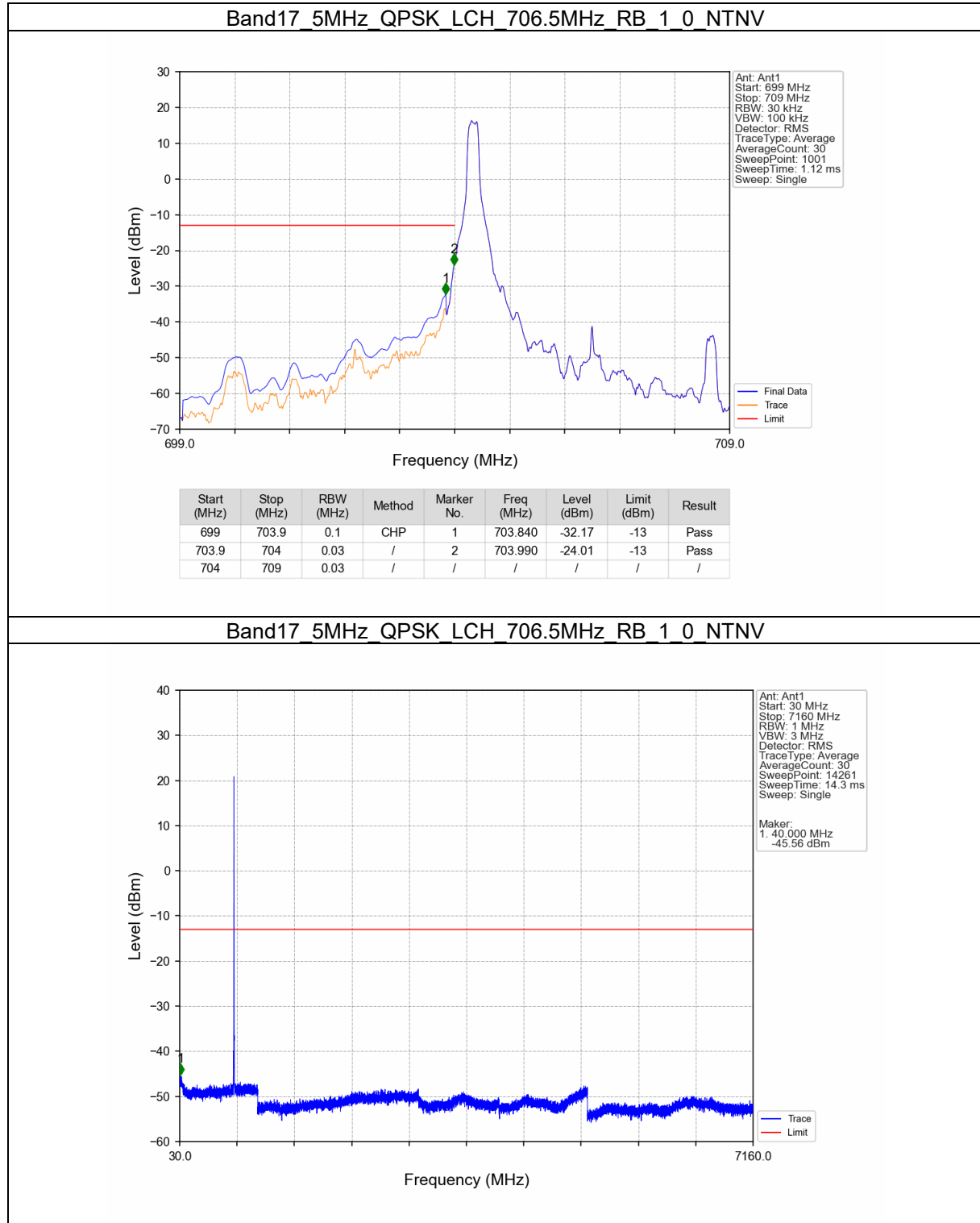
Band: 17 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



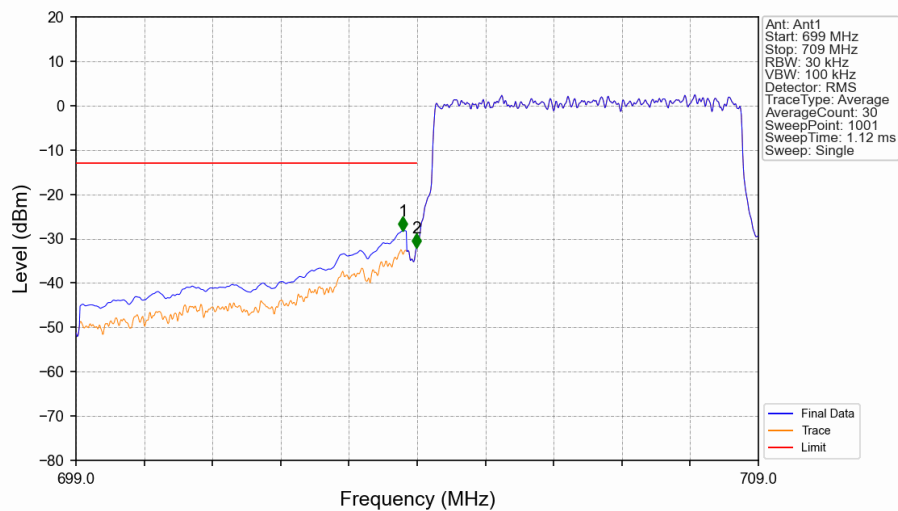
Test Report No.: RF260330B004

Test Graph

5MHz

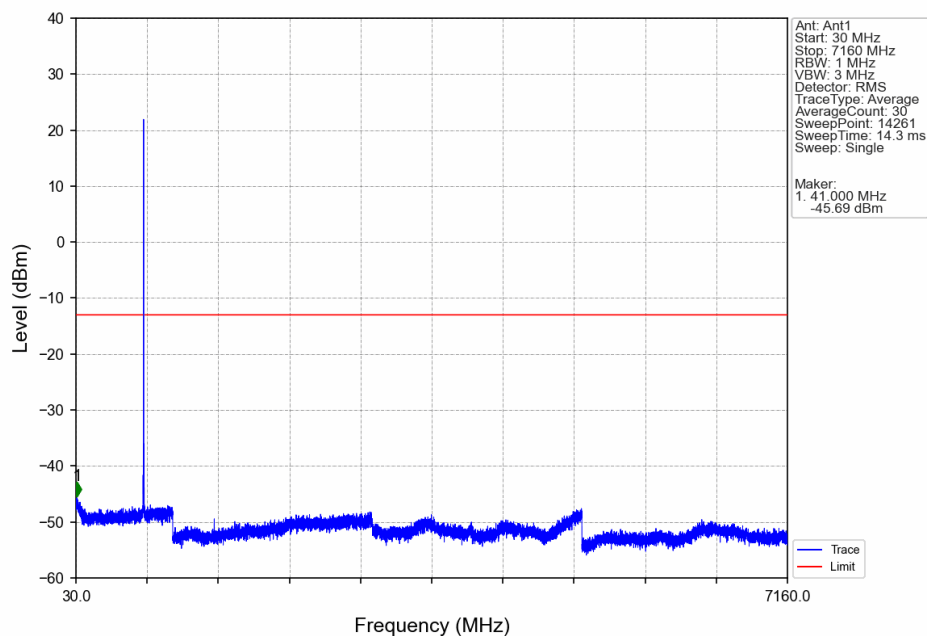


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

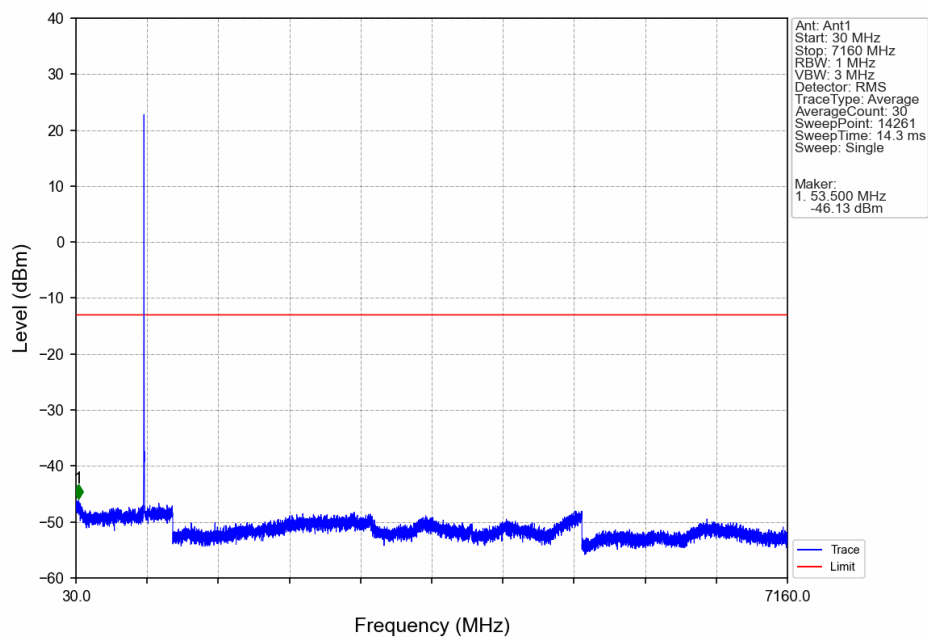


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.790	-28.22	-13	Pass
703.9	704	0.03	/	2	703.990	-32.01	-13	Pass
704	709	0.03	/	/	/	/	/	/

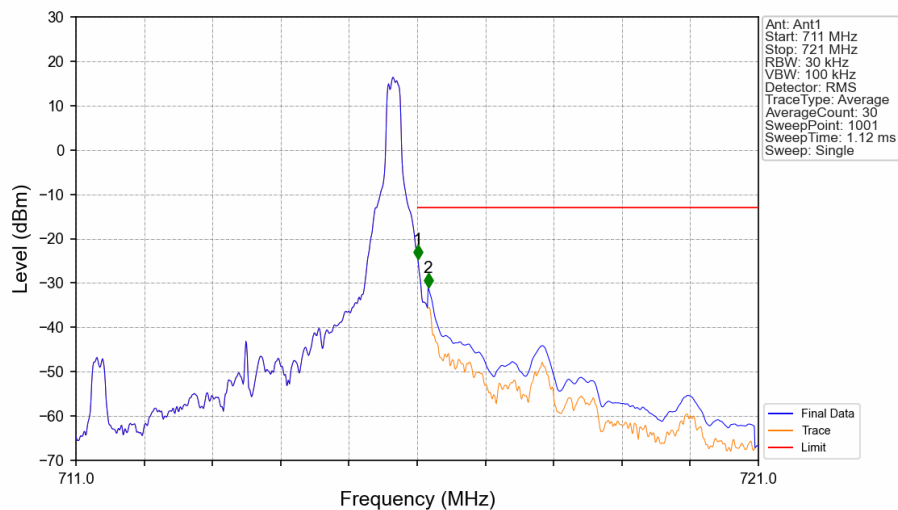
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV

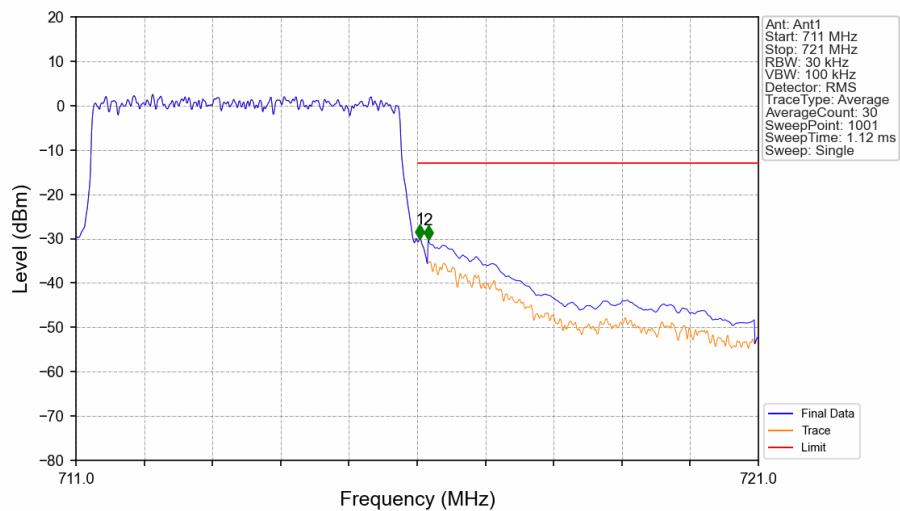


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-24.51	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.00	-13	Pass



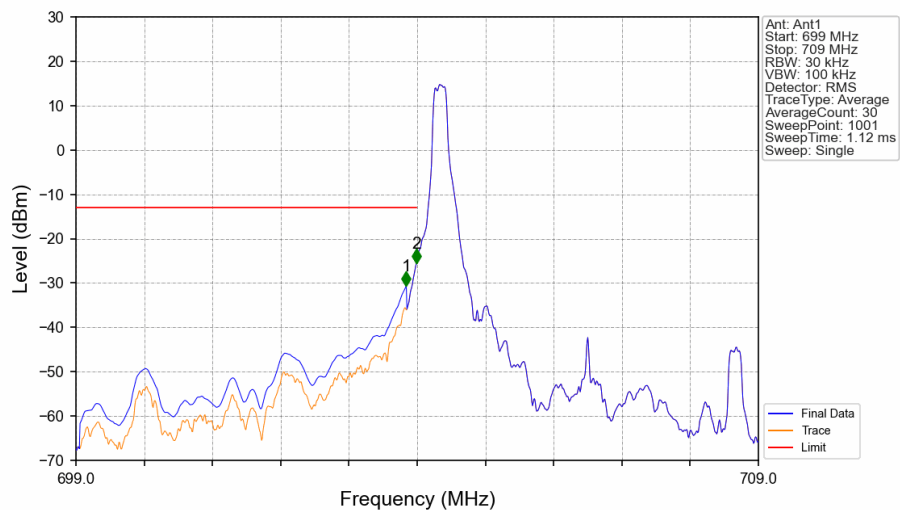
Test Report No.: RF260330B004

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-29.97	-13	Pass
716.1	721	0.1	CHP	2	716.160	-30.29	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

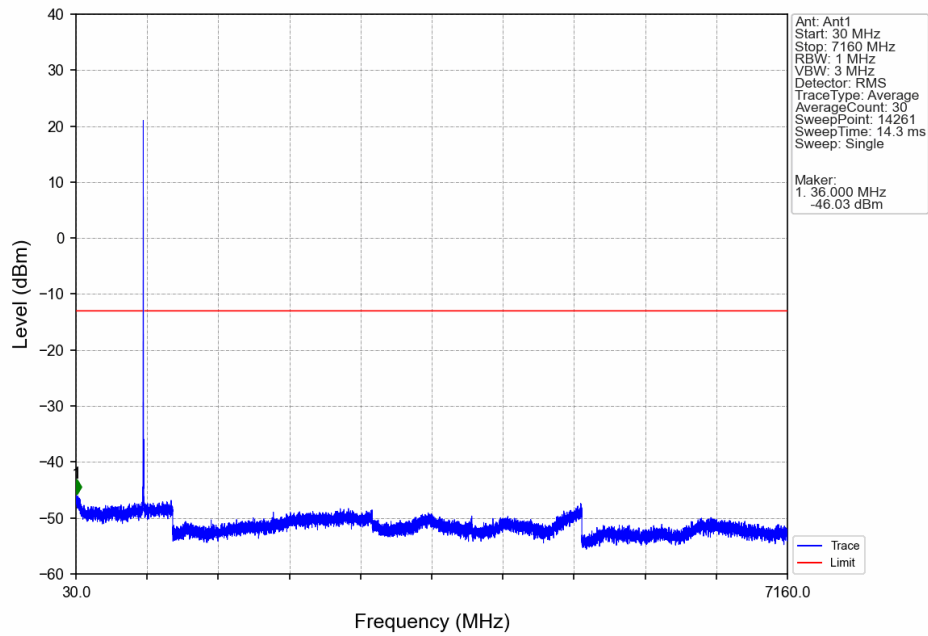


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-30.55	-13	Pass
703.9	704	0.03	/	2	703.990	-25.49	-13	Pass
704	709	0.03	/	/	/	/	/	/

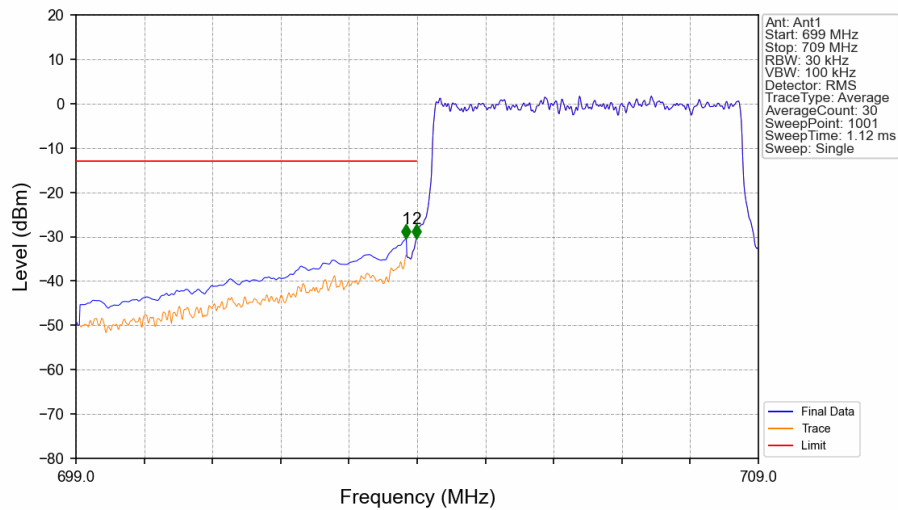


Test Report No.: RF260330B004

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

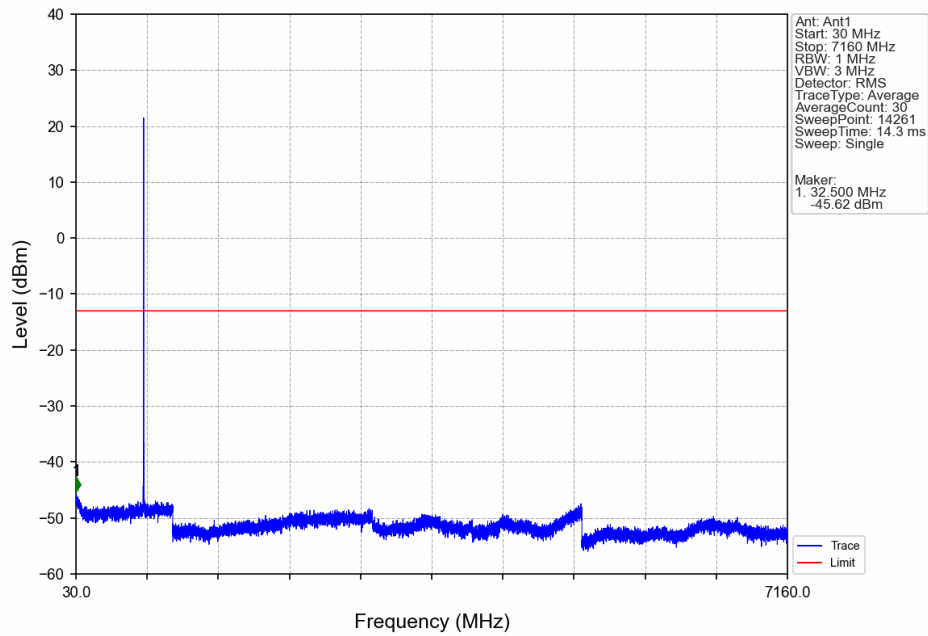


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-30.37	-13	Pass
703.9	704	0.03	/	2	703.990	-30.37	-13	Pass
704	709	0.03	/	/	/	/	/	/

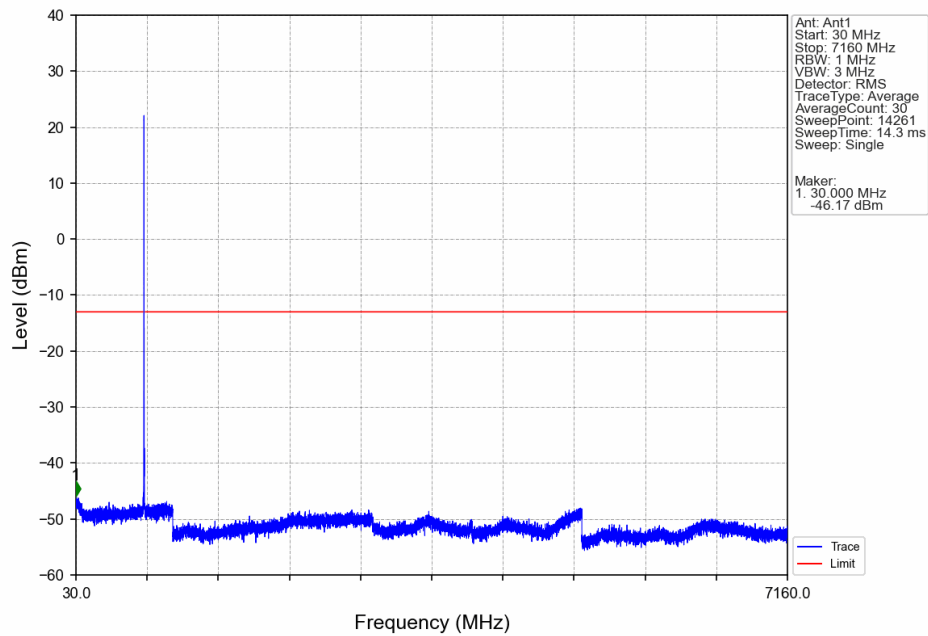


Test Report No.: RF260330B004

Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



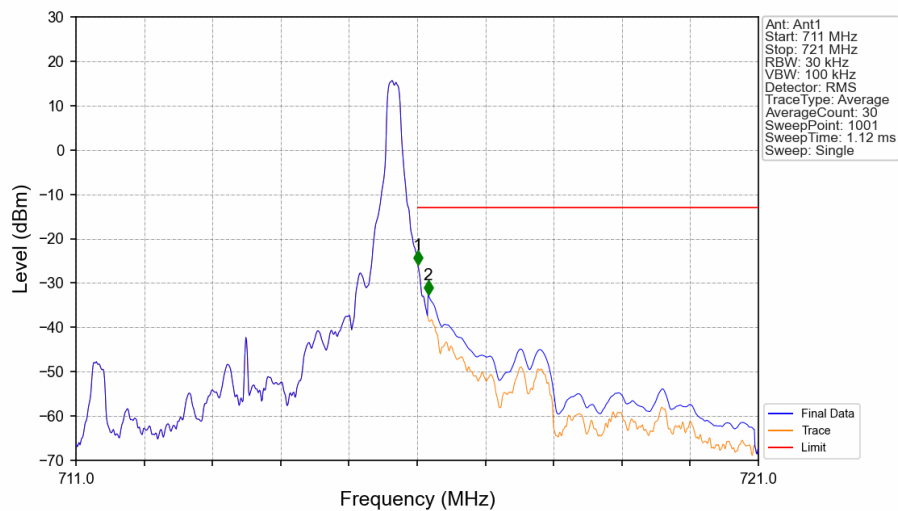
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV





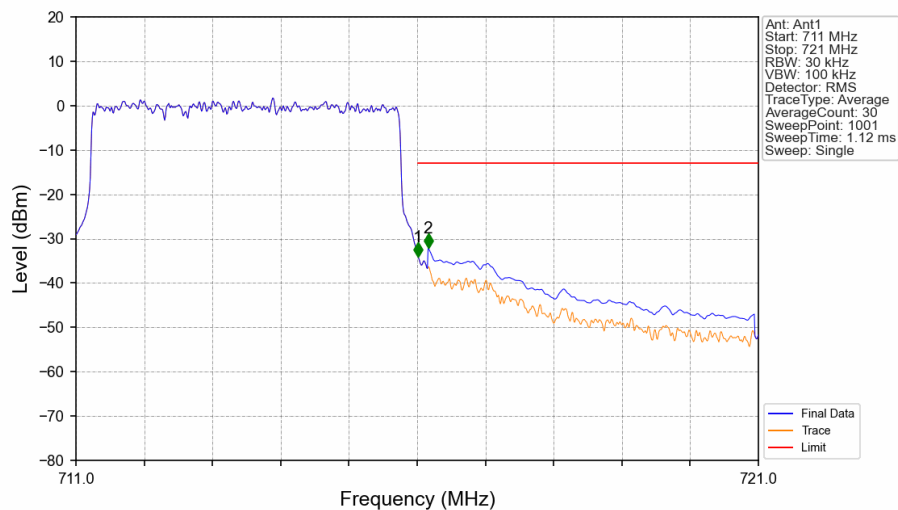
Test Report No.: RF260330B004

Band17_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	716.010	-25.80	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.53	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

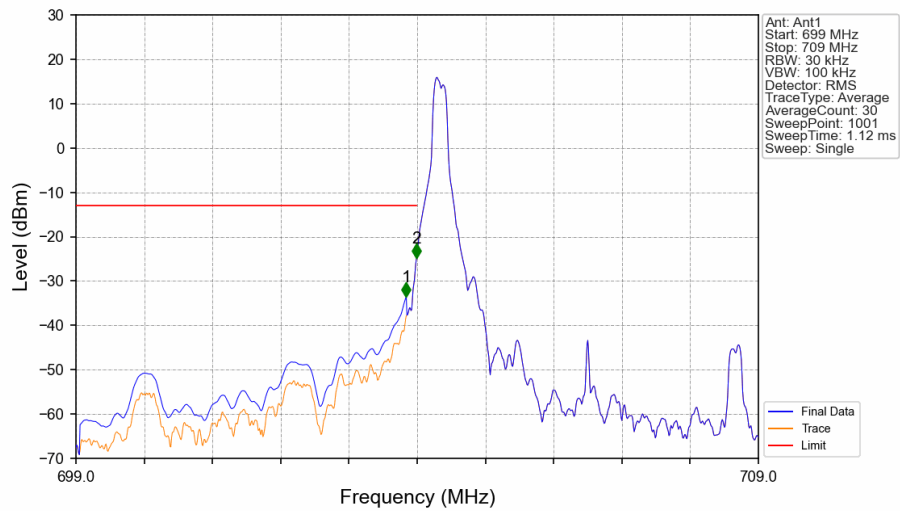


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-34.08	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.98	-13	Pass



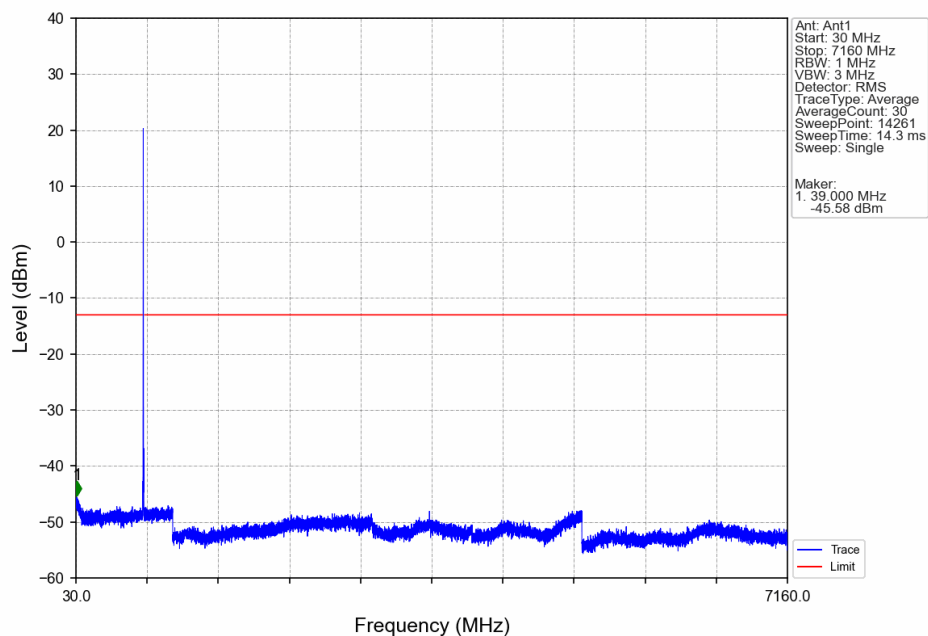
Test Report No.: RF260330B004

Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-33.43	-13	Pass
703.9	704	0.03	/	2	703.990	-24.80	-13	Pass
704	709	0.03	/	/	/	/	/	/

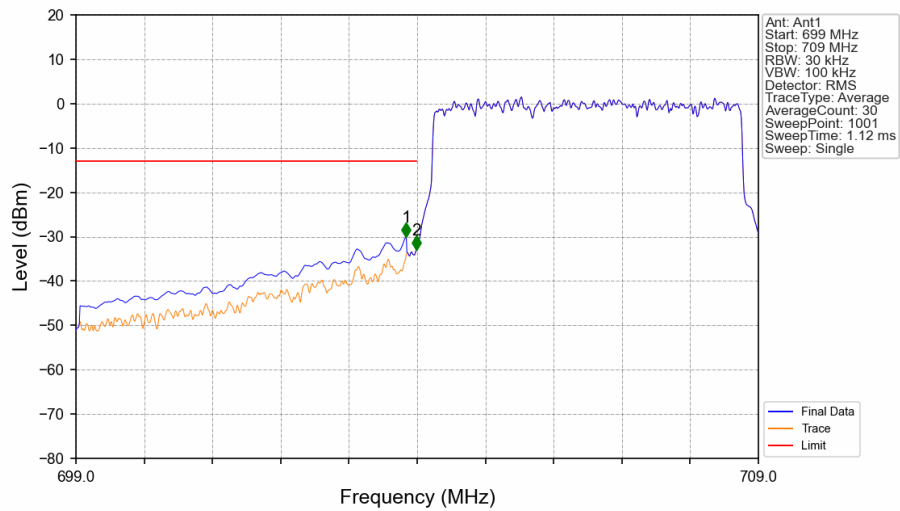
Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV





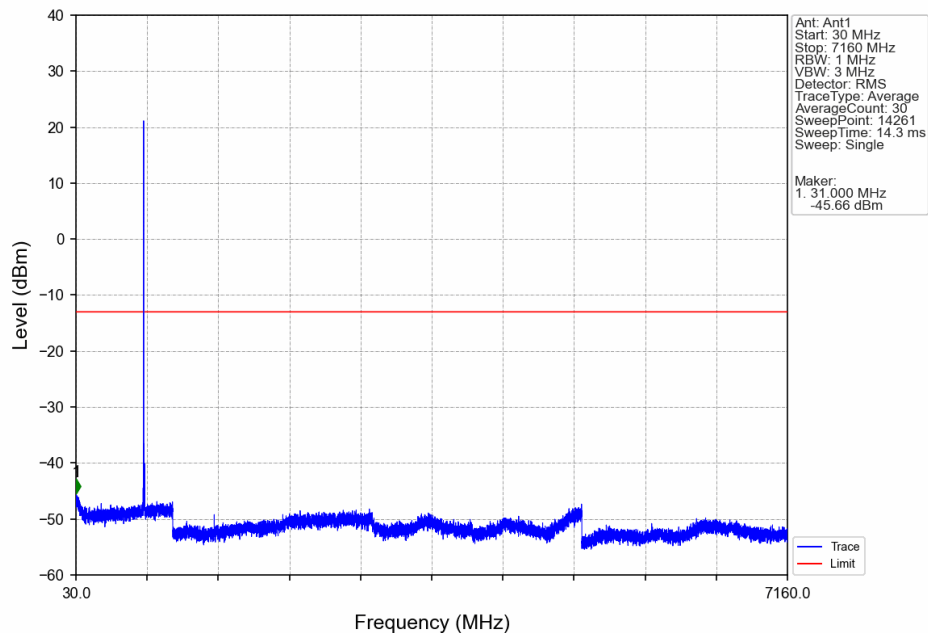
Test Report No.: RF260330B004

Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.96	-13	Pass
703.9	704	0.03	/	2	703.990	-32.98	-13	Pass
704	709	0.03	/	/	/	/	/	/

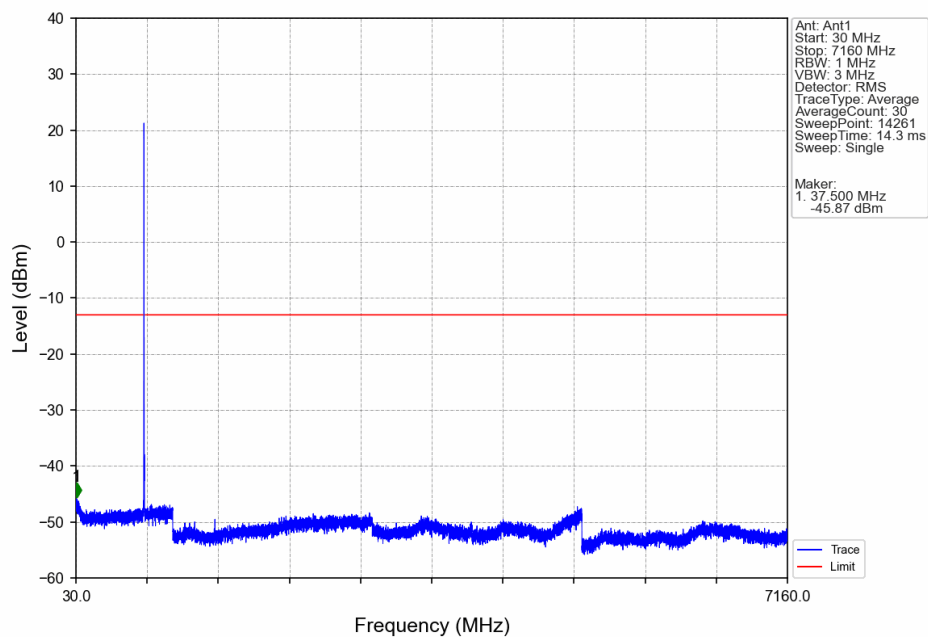
Band17_5MHz_64QAM_MCH_710MHz_RB_1_0_NTNV



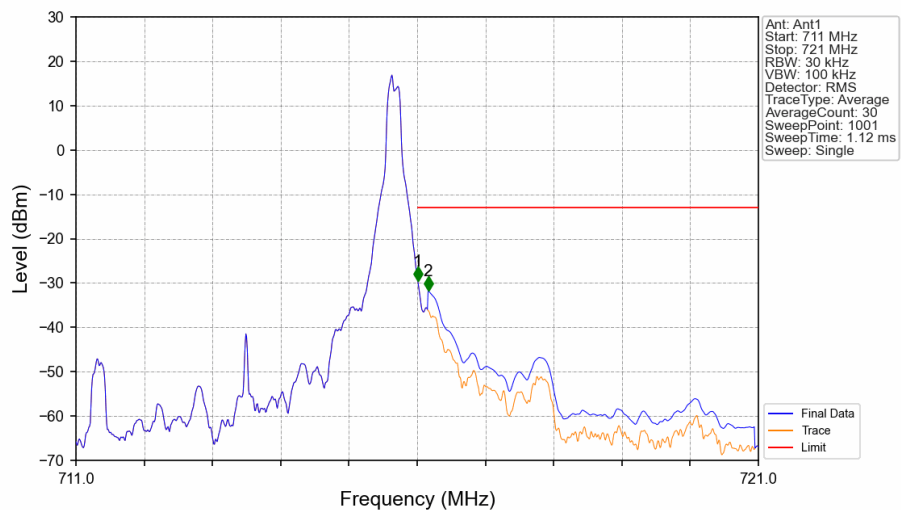


Test Report No.: RF260330B004

Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_24_NTNV

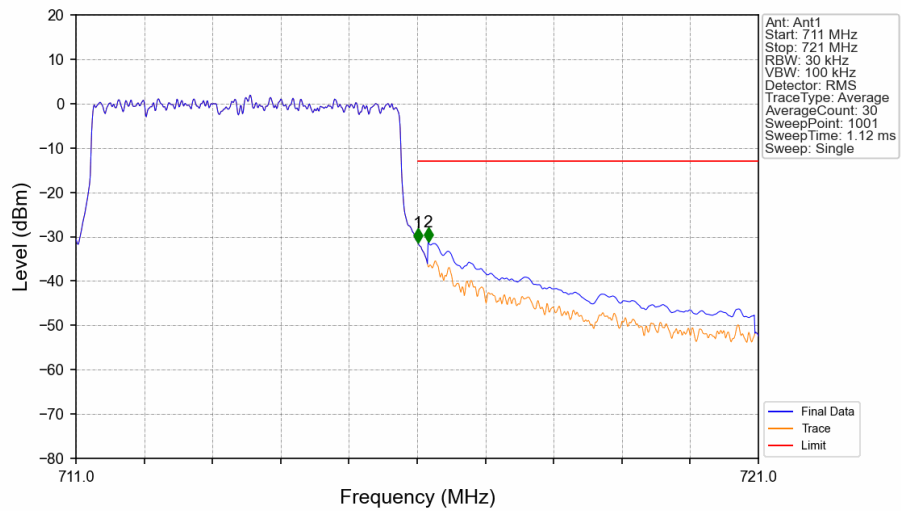


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-29.51	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.73	-13	Pass



Test Report No.: RF260330B004

Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



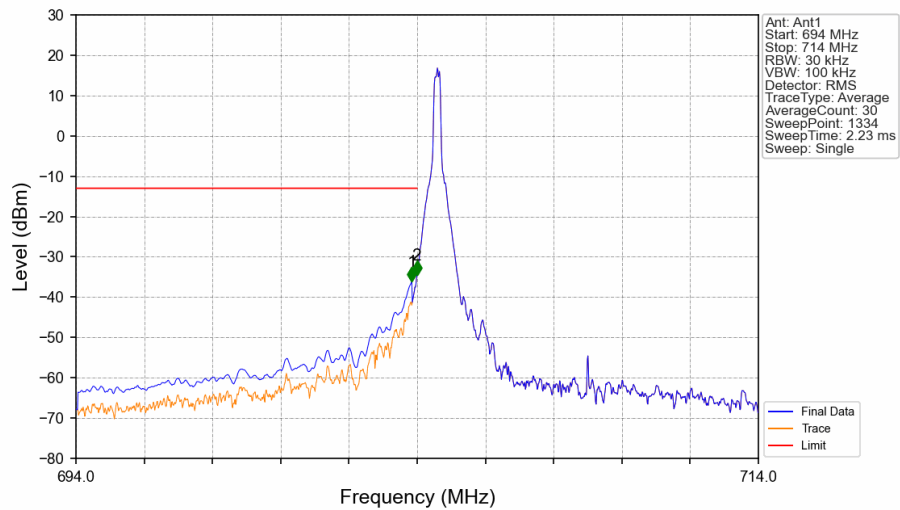
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-31.38	-13	Pass
716.1	721	0.1	CHP	2	716.160	-31.21	-13	Pass



Test Report No.: RF260330B004

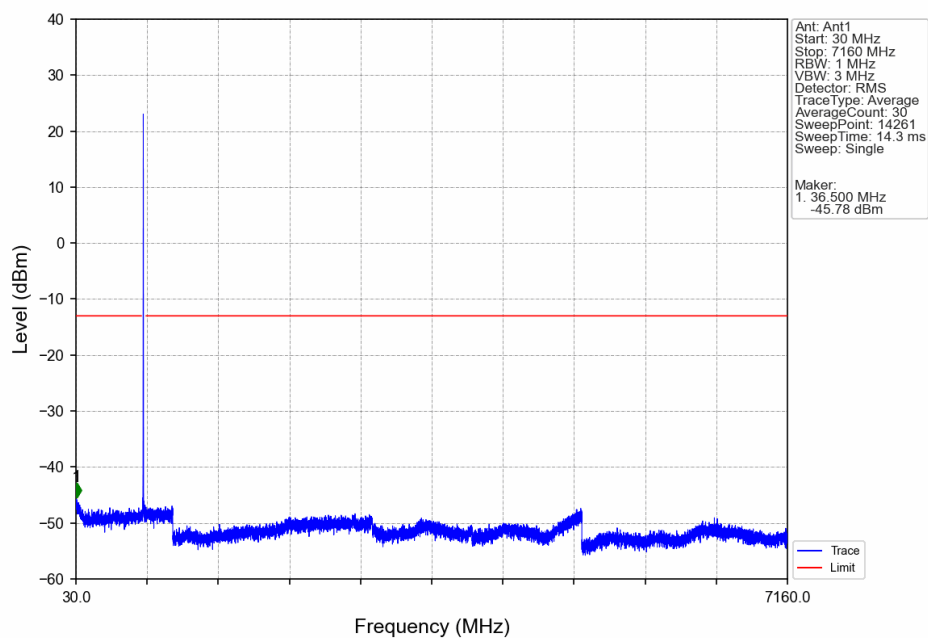
10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-36.03	-13	Pass
703.9	704	0.03	/	2	703.992	-34.45	-13	Pass
704	714	0.03	/	/	/	/	/	/

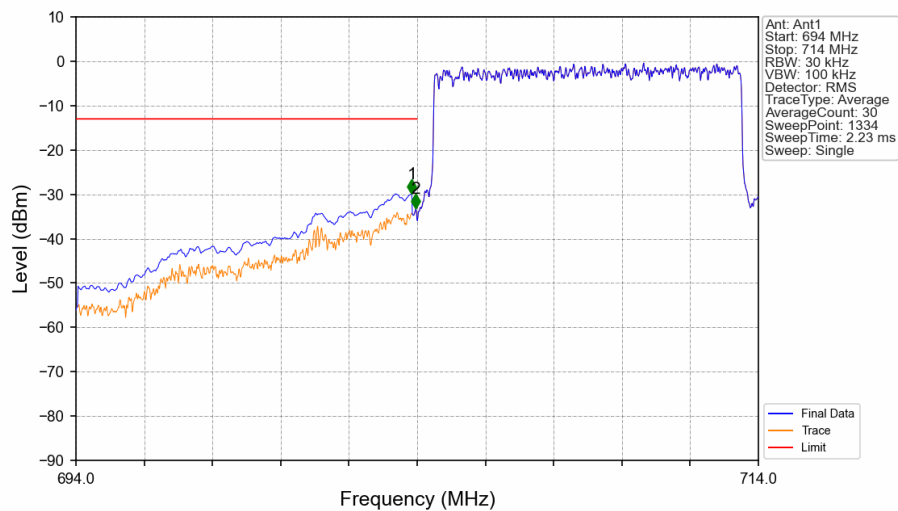
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV





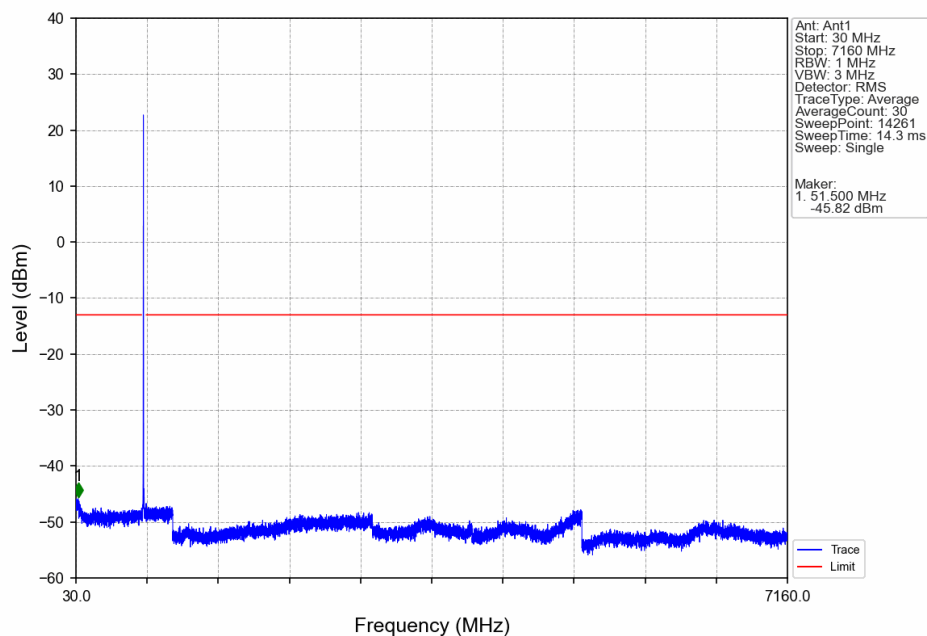
Test Report No.: RF260330B004

Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-29.80	-13	Pass
703.9	704	0.03	/	2	703.962	-33.17	-13	Pass
704	714	0.03	/	/	/	/	/	/

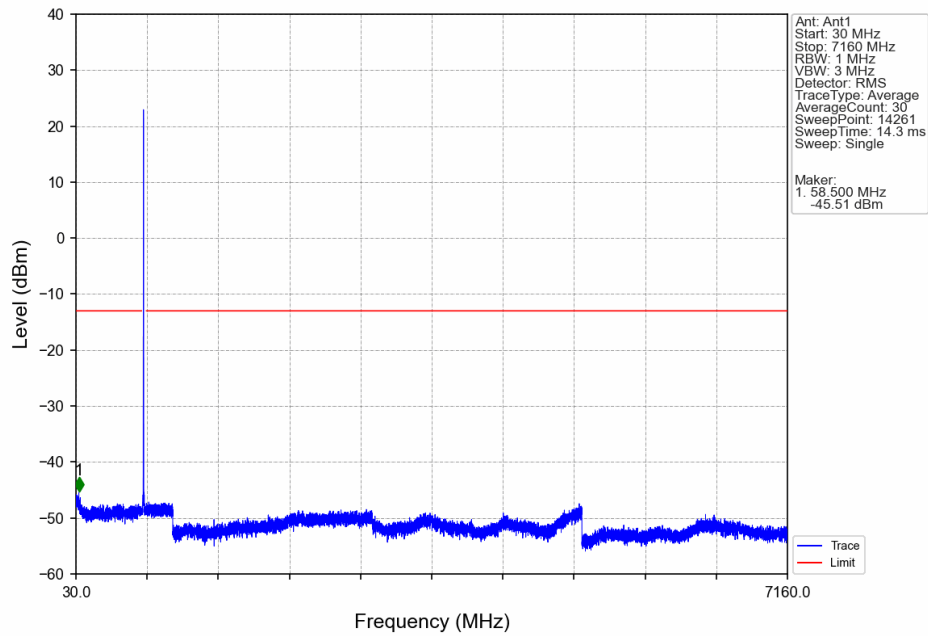
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



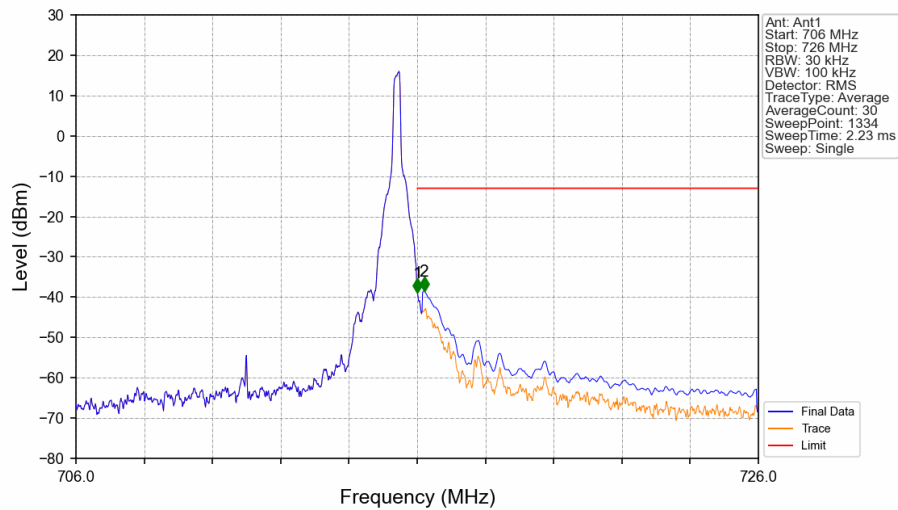


Test Report No.: RF260330B004

Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV

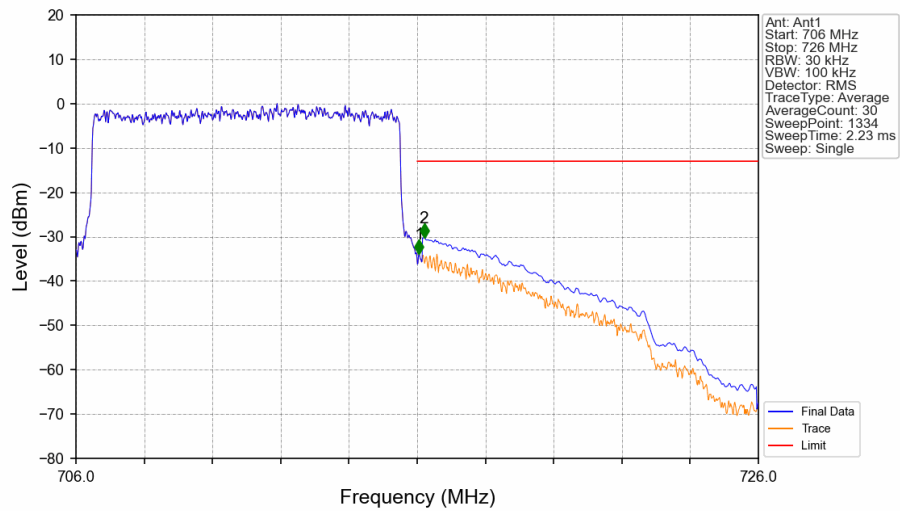


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-38.95	-13	Pass
716.1	726	0.1	CHP	2	716.203	-38.48	-13	Pass



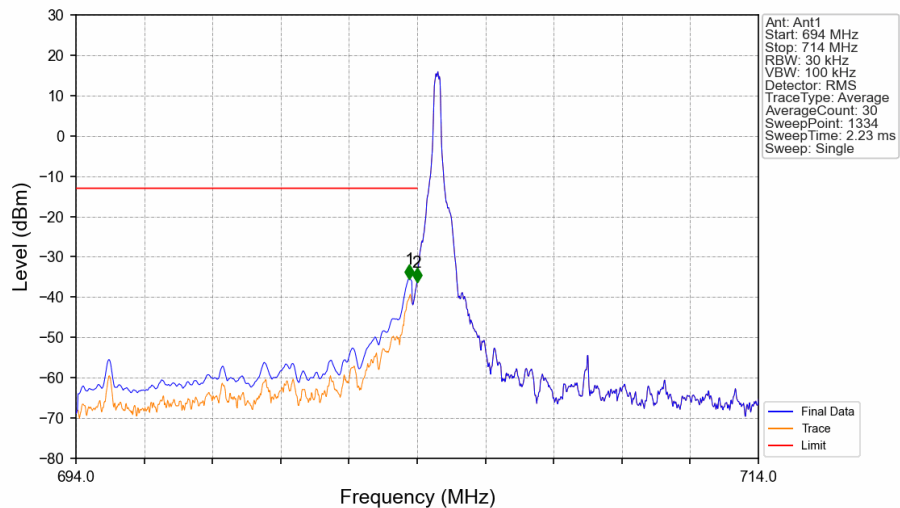
Test Report No.: RF260330B004

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.053	-33.84	-13	Pass
716.1	726	0.1	CHP	2	716.203	-30.14	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

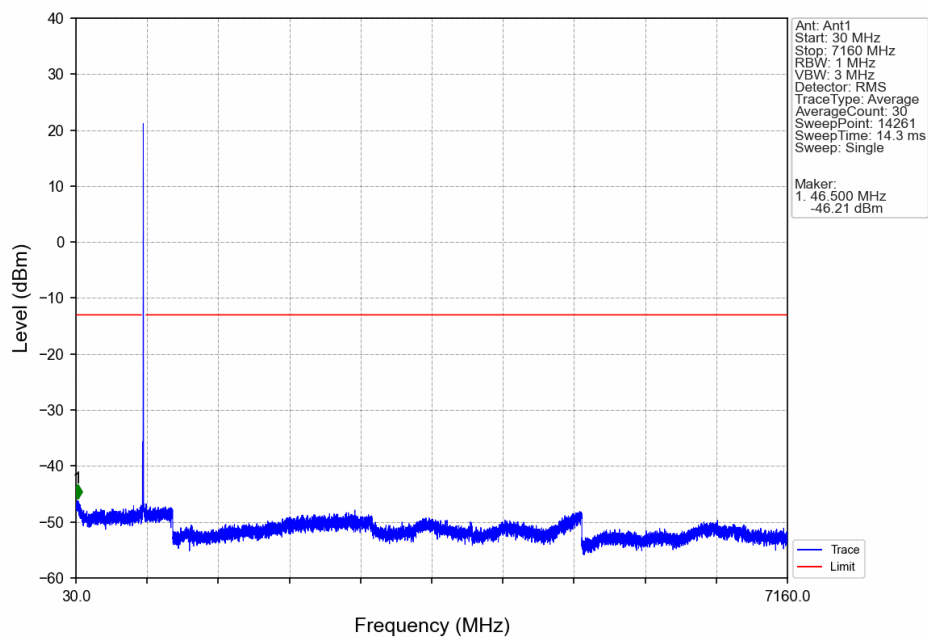


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.767	-35.38	-13	Pass
703.9	704	0.03	/	2	703.992	-36.20	-13	Pass
704	714	0.03	/	/	/	/	/	/

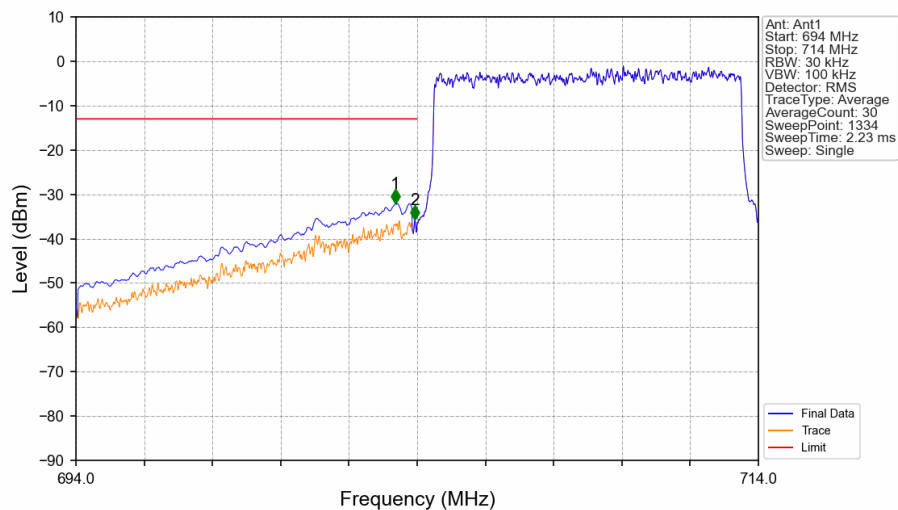


Test Report No.: RF260330B004

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

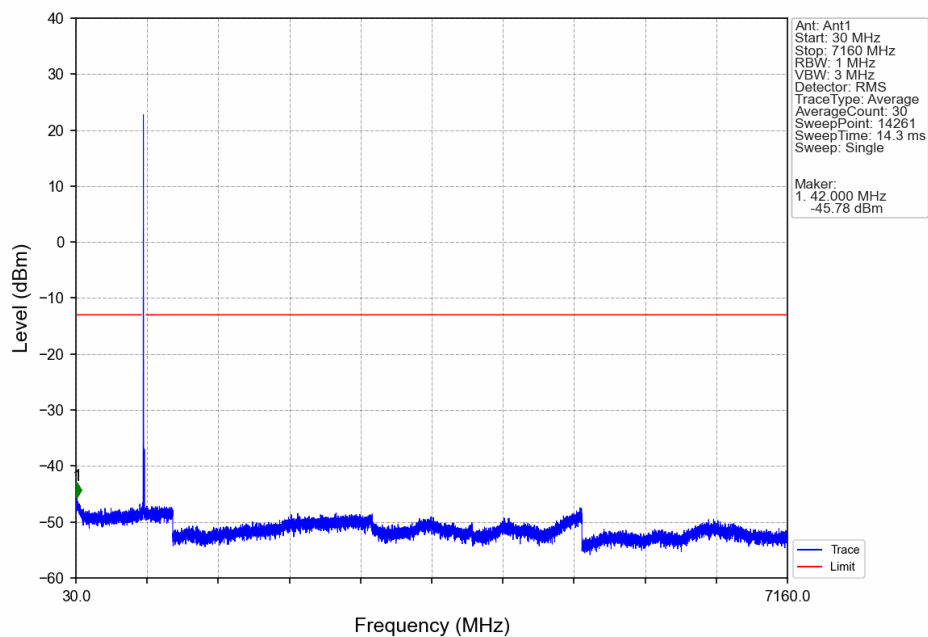


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.362	-32.08	-13	Pass
703.9	704	0.03	/	2	703.932	-35.72	-13	Pass
704	714	0.03	/	/	/	/	/	/

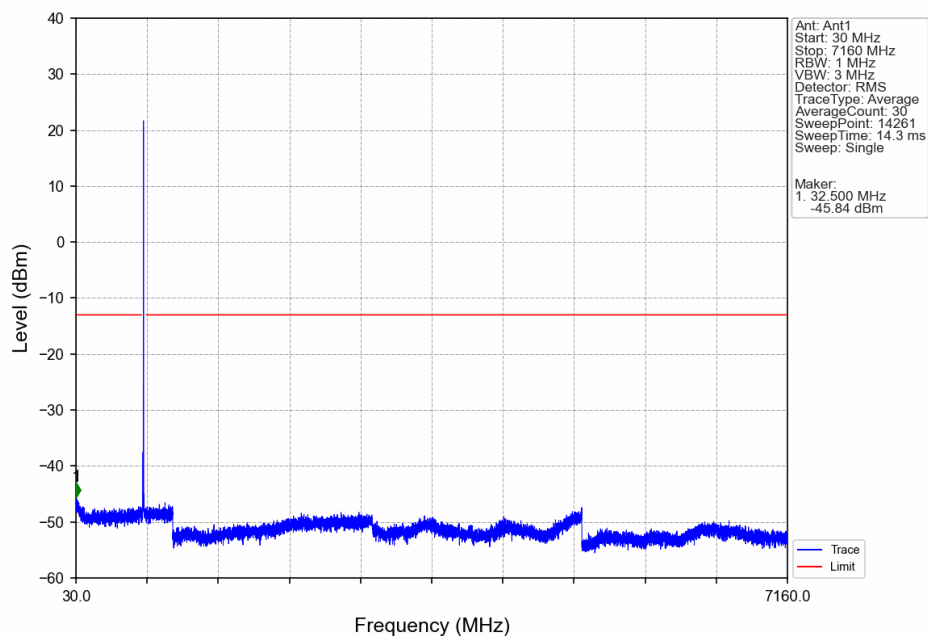


Test Report No.: RF260330B004

Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



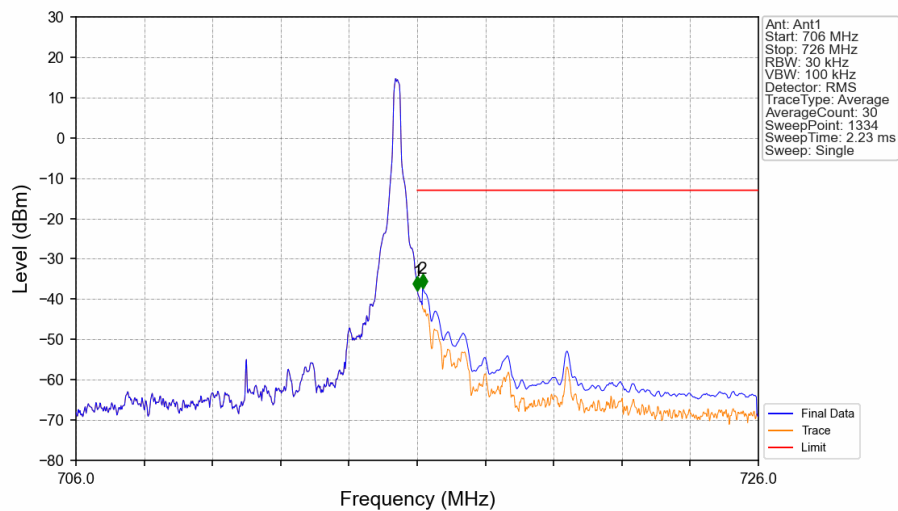
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV





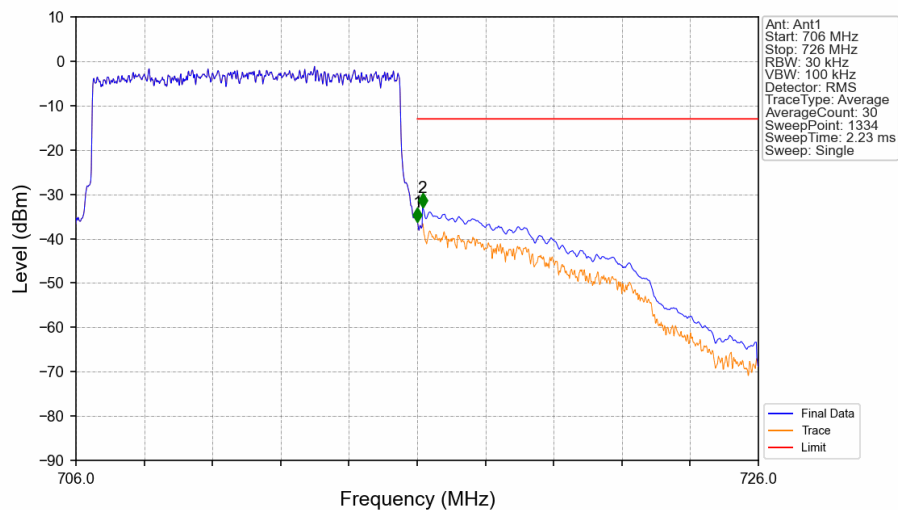
Test Report No.: RF260330B004

Band17_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	716.008	-37.94	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.24	-13	Pass

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

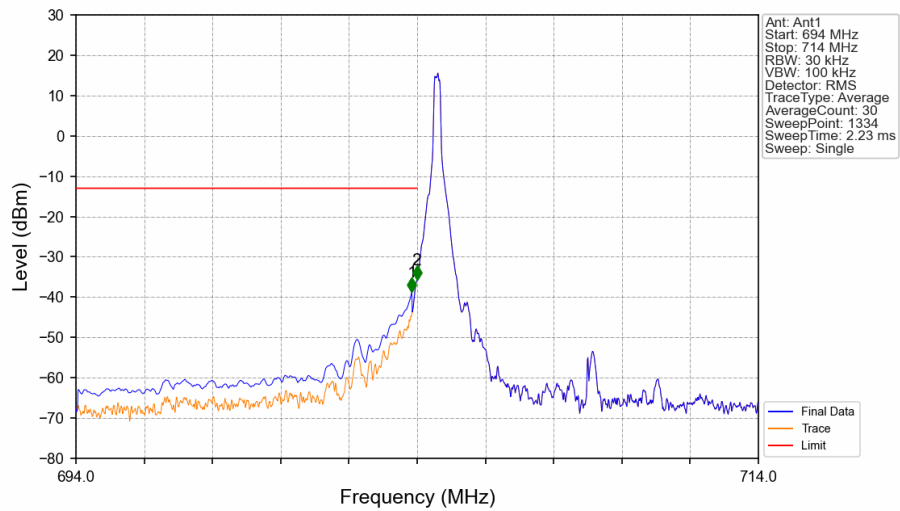


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-36.20	-13	Pass
716.1	726	0.1	CHP	2	716.158	-32.93	-13	Pass



Test Report No.: RF260330B004

Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-38.60	-13	Pass
703.9	704	0.03	/	2	703.992	-35.59	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV

