

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	22.78	3.26	23.89	<=34.77	Pass
			2	22.60	3.26	23.71	<=34.77	Pass
			5	22.73	3.26	23.84	<=34.77	Pass
		3	0	22.49	3.26	23.60	<=34.77	Pass
			2	22.47	3.26	23.58	<=34.77	Pass
			3	22.50	3.26	23.61	<=34.77	Pass
		6	0	21.52	3.26	22.63	<=34.77	Pass
	707.5	1	0	22.76	3.26	23.87	<=34.77	Pass
			2	22.83	3.26	23.94	<=34.77	Pass
			5	22.89	3.26	24.00	<=34.77	Pass
		3	0	22.96	3.26	24.07	<=34.77	Pass
			2	22.80	3.26	23.91	<=34.77	Pass
			3	22.79	3.26	23.90	<=34.77	Pass
	6	0	21.93	3.26	23.04	<=34.77	Pass	
	715.3	1	0	22.85	3.26	23.96	<=34.77	Pass
			2	22.90	3.26	24.01	<=34.77	Pass
			5	22.80	3.26	23.91	<=34.77	Pass
		3	0	22.93	3.26	24.04	<=34.77	Pass
			2	22.82	3.26	23.93	<=34.77	Pass
			3	22.85	3.26	23.96	<=34.77	Pass
		6	0	21.76	3.26	22.87	<=34.77	Pass
16QAM	699.7	1	0	21.76	3.26	22.87	<=34.77	Pass
			2	21.81	3.26	22.92	<=34.77	Pass
			5	21.27	3.26	22.38	<=34.77	Pass
		3	0	21.65	3.26	22.76	<=34.77	Pass
			2	21.60	3.26	22.71	<=34.77	Pass
			3	21.72	3.26	22.83	<=34.77	Pass
		6	0	20.49	3.26	21.60	<=34.77	Pass
	707.5	1	0	22.63	3.26	23.74	<=34.77	Pass
			2	22.52	3.26	23.63	<=34.77	Pass
			5	22.52	3.26	23.63	<=34.77	Pass
		3	0	22.11	3.26	23.22	<=34.77	Pass
			2	22.00	3.26	23.11	<=34.77	Pass
			3	21.68	3.26	22.79	<=34.77	Pass
	6	0	20.50	3.26	21.61	<=34.77	Pass	
	715.3	1	0	21.77	3.26	22.88	<=34.77	Pass
			2	21.80	3.26	22.91	<=34.77	Pass
			5	21.79	3.26	22.90	<=34.77	Pass
		3	0	21.87	3.26	22.98	<=34.77	Pass
			2	21.93	3.26	23.04	<=34.77	Pass
			3	21.84	3.26	22.95	<=34.77	Pass
		6	0	20.57	3.26	21.68	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	ERP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit			
QPSK	700.5	1	0	22.56	3.26	23.67	<=34.77	Pass		
			7	22.80	3.26	23.91	<=34.77	Pass		
			14	22.60	3.26	23.71	<=34.77	Pass		
		8	0	21.61	3.26	22.72	<=34.77	Pass		
			4	21.55	3.26	22.66	<=34.77	Pass		
			7	21.65	3.26	22.76	<=34.77	Pass		
		15	0	21.61	3.26	22.72	<=34.77	Pass		
		707.5	1	0	22.82	3.26	23.93	<=34.77	Pass	
				7	22.86	3.26	23.97	<=34.77	Pass	
	14			22.66	3.26	23.77	<=34.77	Pass		
	8		0	21.97	3.26	23.08	<=34.77	Pass		
			4	21.99	3.26	23.10	<=34.77	Pass		
			7	21.85	3.26	22.96	<=34.77	Pass		
	15		0	21.85	3.26	22.96	<=34.77	Pass		
	714.5		1	0	23.17	3.26	24.28	<=34.77	Pass	
				7	23.08	3.26	24.19	<=34.77	Pass	
		14		22.87	3.26	23.98	<=34.77	Pass		
		8	0	21.91	3.26	23.02	<=34.77	Pass		
			4	21.83	3.26	22.94	<=34.77	Pass		
			7	21.81	3.26	22.92	<=34.77	Pass		
		15	0	21.96	3.26	23.07	<=34.77	Pass		
		16QAM	700.5	1	0	21.96	3.26	23.07	<=34.77	Pass
					7	22.05	3.26	23.16	<=34.77	Pass
	14				22.04	3.26	23.15	<=34.77	Pass	
8	0			20.63	3.26	21.74	<=34.77	Pass		
	4			20.54	3.26	21.65	<=34.77	Pass		
	7			20.84	3.26	21.95	<=34.77	Pass		
15	0			20.61	3.26	21.72	<=34.77	Pass		
707.5	1			0	22.36	3.26	23.47	<=34.77	Pass	
				7	22.63	3.26	23.74	<=34.77	Pass	
			14	22.42	3.26	23.53	<=34.77	Pass		
	8		0	20.80	3.26	21.91	<=34.77	Pass		
			4	21.16	3.26	22.27	<=34.77	Pass		
			7	21.13	3.26	22.24	<=34.77	Pass		
	15		0	20.79	3.26	21.90	<=34.77	Pass		
	714.5		1	0	22.23	3.26	23.34	<=34.77	Pass	
				7	21.72	3.26	22.83	<=34.77	Pass	
14				21.83	3.26	22.94	<=34.77	Pass		
8			0	20.94	3.26	22.05	<=34.77	Pass		
			4	20.88	3.26	21.99	<=34.77	Pass		
			7	20.83	3.26	21.94	<=34.77	Pass		
15			0	20.96	3.26	22.07	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15										

Band: 12 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	22.34	3.26	23.45	<=34.77	Pass
			13	22.44	3.26	23.55	<=34.77	Pass
			24	22.43	3.26	23.54	<=34.77	Pass
		12	0	21.54	3.26	22.65	<=34.77	Pass
			6	21.68	3.26	22.79	<=34.77	Pass
			13	21.62	3.26	22.73	<=34.77	Pass
	25	0	21.52	3.26	22.63	<=34.77	Pass	
	707.5	1	0	22.53	3.26	23.64	<=34.77	Pass

			13	22.59	3.26	23.70	<=34.77	Pass
			24	22.42	3.26	23.53	<=34.77	Pass
		12	0	21.97	3.26	23.08	<=34.77	Pass
			6	21.92	3.26	23.03	<=34.77	Pass
			13	21.80	3.26	22.91	<=34.77	Pass
		25	0	21.85	3.26	22.96	<=34.77	Pass
	713.5	1	0	22.49	3.26	23.60	<=34.77	Pass
			13	22.85	3.26	23.96	<=34.77	Pass
			24	22.67	3.26	23.78	<=34.77	Pass
		12	0	22.02	3.26	23.13	<=34.77	Pass
			6	21.99	3.26	23.10	<=34.77	Pass
			13	21.79	3.26	22.90	<=34.77	Pass
		25	0	21.87	3.26	22.98	<=34.77	Pass
		16QAM	701.5	1	0	21.23	3.26	22.34
13	21.08				3.26	22.19	<=34.77	Pass
24	20.84				3.26	21.95	<=34.77	Pass
12	0			20.50	3.26	21.61	<=34.77	Pass
	6			20.65	3.26	21.76	<=34.77	Pass
	13			20.63	3.26	21.74	<=34.77	Pass
25	0			20.69	3.26	21.80	<=34.77	Pass
707.5	1		0	22.37	3.26	23.48	<=34.77	Pass
			13	22.61	3.26	23.72	<=34.77	Pass
			24	22.33	3.26	23.44	<=34.77	Pass
	12		0	20.86	3.26	21.97	<=34.77	Pass
			6	20.88	3.26	21.99	<=34.77	Pass
			13	20.78	3.26	21.89	<=34.77	Pass
	25		0	20.88	3.26	21.99	<=34.77	Pass
713.5	1		0	21.93	3.26	23.04	<=34.77	Pass
			13	21.69	3.26	22.80	<=34.77	Pass
			24	21.56	3.26	22.67	<=34.77	Pass
	12		0	20.82	3.26	21.93	<=34.77	Pass
			6	20.95	3.26	22.06	<=34.77	Pass
			13	20.75	3.26	21.86	<=34.77	Pass
	25		0	20.97	3.26	22.08	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	22.46	3.26	23.57	<=34.77	Pass
			25	22.63	3.26	23.74	<=34.77	Pass
			49	22.60	3.26	23.71	<=34.77	Pass
		25	0	21.63	3.26	22.74	<=34.77	Pass
			13	21.73	3.26	22.84	<=34.77	Pass
			25	21.78	3.26	22.89	<=34.77	Pass
		50	0	21.74	3.26	22.85	<=34.77	Pass
	707.5	1	0	22.50	3.26	23.61	<=34.77	Pass
			25	23.27	3.26	24.38	<=34.77	Pass
			49	22.78	3.26	23.89	<=34.77	Pass
		25	0	21.80	3.26	22.91	<=34.77	Pass
			13	21.78	3.26	22.89	<=34.77	Pass
			25	21.76	3.26	22.87	<=34.77	Pass
		50	0	21.83	3.26	22.94	<=34.77	Pass
	711	1	0	22.74	3.26	23.85	<=34.77	Pass
			25	22.66	3.26	23.77	<=34.77	Pass
			49	22.57	3.26	23.68	<=34.77	Pass

		25	0	21.77	3.26	22.88	<=34.77	Pass		
			13	21.82	3.26	22.93	<=34.77	Pass		
			25	21.86	3.26	22.97	<=34.77	Pass		
		50	0	21.79	3.26	22.90	<=34.77	Pass		
16QAM	704	1	0	21.95	3.26	23.06	<=34.77	Pass		
			25	22.39	3.26	23.50	<=34.77	Pass		
			49	22.11	3.26	23.22	<=34.77	Pass		
		25	0	20.76	3.26	21.87	<=34.77	Pass		
			13	20.73	3.26	21.84	<=34.77	Pass		
			25	20.74	3.26	21.85	<=34.77	Pass		
		50	0	20.84	3.26	21.95	<=34.77	Pass		
		707.5	1	0	22.31	3.26	23.42	<=34.77	Pass	
				25	22.66	3.26	23.77	<=34.77	Pass	
	49			22.48	3.26	23.59	<=34.77	Pass		
	25		0	20.85	3.26	21.96	<=34.77	Pass		
			13	20.91	3.26	22.02	<=34.77	Pass		
			25	20.91	3.26	22.02	<=34.77	Pass		
	50		0	20.79	3.26	21.90	<=34.77	Pass		
	711		1	0	22.51	3.26	23.62	<=34.77	Pass	
				25	22.76	3.26	23.87	<=34.77	Pass	
		49		21.97	3.26	23.08	<=34.77	Pass		
		25	0	20.99	3.26	22.10	<=34.77	Pass		
			13	21.05	3.26	22.16	<=34.77	Pass		
			25	20.99	3.26	22.10	<=34.77	Pass		
		50	0	20.71	3.26	21.82	<=34.77	Pass		
		Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.55	1.135	0.0016	/	Pass
					4	1.306	0.0019	/	Pass
					4.4	1.151	0.0016	/	Pass
				-30	4	0.314	0.0004	/	Pass
				-20	4	1.178	0.0017	/	Pass
				-10	4	0.377	0.0005	/	Pass
				0	4	0.599	0.0009	/	Pass
				10	4	0.829	0.0012	/	Pass
				30	4	1.036	0.0015	/	Pass
				40	4	-0.156	-0.0002	/	Pass
	707.5	50	0	50	4	0.413	0.0006	/	Pass
				20	3.55	1.609	0.0023	/	Pass
					4	1.342	0.0019	/	Pass
					4.4	0.941	0.0013	/	Pass
				-30	4	0.539	0.0008	/	Pass
				-20	4	1.238	0.0017	/	Pass
				-10	4	1.183	0.0017	/	Pass
				0	4	1.766	0.0025	/	Pass
				10	4	1.122	0.0016	/	Pass
				30	4	0.729	0.0010	/	Pass
				40	4	0.512	0.0007	/	Pass

	711	50	0	50	4	1.024	0.0014	/	Pass
				20	3.55	1.268	0.0018	/	Pass
					4	0.107	0.0002	/	Pass
					4.4	-0.126	-0.0002	/	Pass
				-30	4	0.125	0.0002	/	Pass
				-20	4	0.011	0.0000	/	Pass
				-10	4	0.257	0.0004	/	Pass
				0	4	-1.176	-0.0017	/	Pass
				10	4	-0.597	-0.0008	/	Pass
				30	4	-0.778	-0.0011	/	Pass
				40	4	-0.150	-0.0002	/	Pass
				50	4	-0.928	-0.0013	/	Pass
16QAM	704	50	0	20	3.55	-0.083	-0.0001	/	Pass
					4	0.169	0.0002	/	Pass
					4.4	0.364	0.0005	/	Pass
				-30	4	0.625	0.0009	/	Pass
				-20	4	0.507	0.0007	/	Pass
				-10	4	-0.059	-0.0001	/	Pass
				0	4	0.418	0.0006	/	Pass
				10	4	0.669	0.0010	/	Pass
				30	4	1.245	0.0018	/	Pass
				40	4	0.756	0.0011	/	Pass
				50	4	1.175	0.0017	/	Pass
	707.5	50	0	20	3.55	-0.099	-0.0001	/	Pass
					4	1.954	0.0028	/	Pass
					4.4	-0.025	0.0000	/	Pass
				-30	4	0.965	0.0014	/	Pass
				-20	4	-1.356	-0.0019	/	Pass
				-10	4	-0.177	-0.0003	/	Pass
				0	4	0.207	0.0003	/	Pass
				10	4	-0.098	-0.0001	/	Pass
				30	4	-0.175	-0.0002	/	Pass
				40	4	-0.709	-0.0010	/	Pass
				50	4	-0.449	-0.0006	/	Pass
	711	50	0	20	3.55	-0.180	-0.0003	/	Pass
					4	-0.236	-0.0003	/	Pass
					4.4	-0.424	-0.0006	/	Pass
				-30	4	-0.624	-0.0009	/	Pass
				-20	4	-1.883	-0.0026	/	Pass
				-10	4	0.275	0.0004	/	Pass
				0	4	0.023	0.0000	/	Pass
				10	4	-0.535	-0.0008	/	Pass
				30	4	-0.459	-0.0006	/	Pass
				40	4	-0.328	-0.0005	/	Pass
				50	4	-0.456	-0.0006	/	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.113	/	Pass
		707.5	6	0	1.113	/	Pass

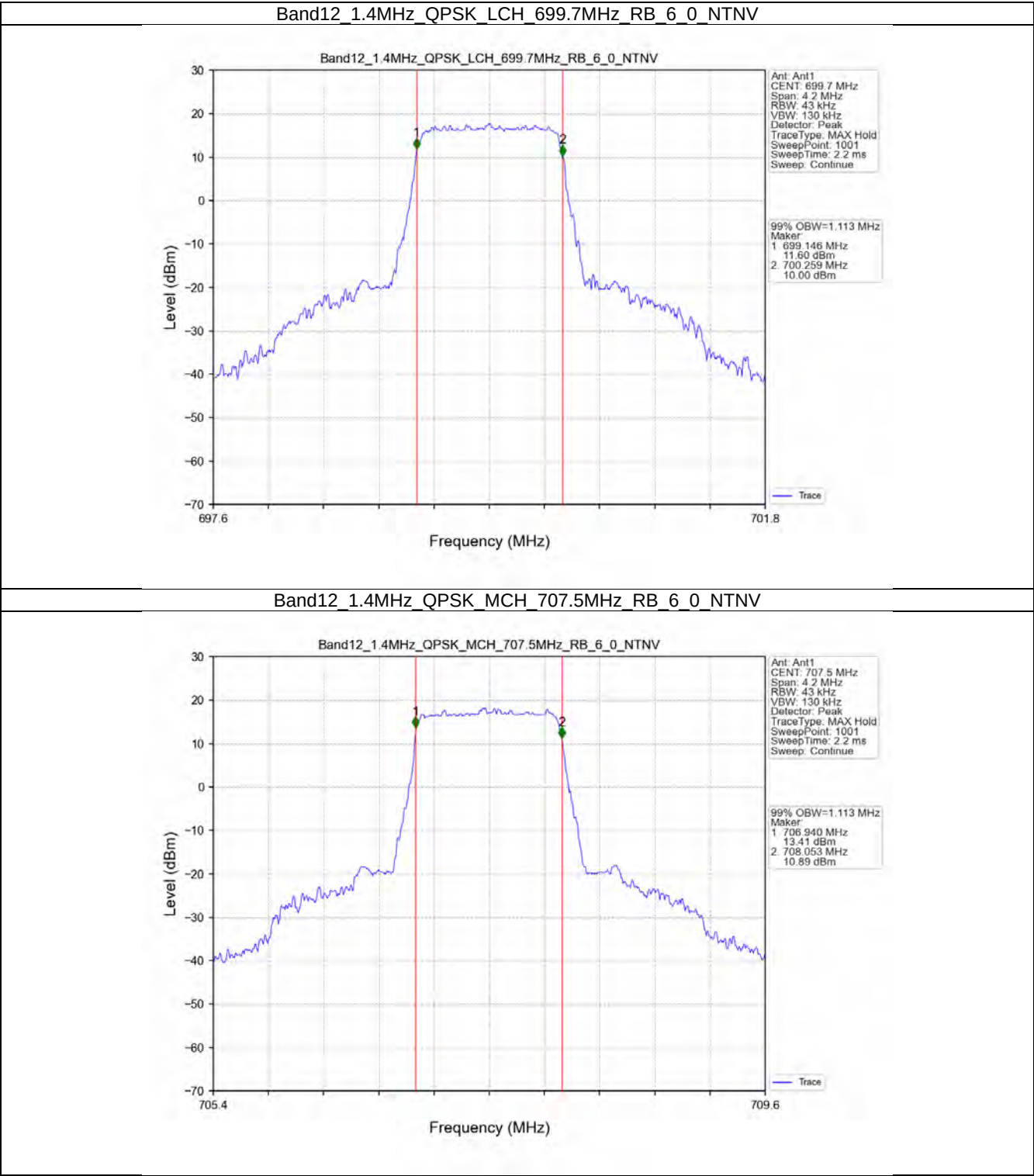
	16QAM	715.3	6	0	1.104	/	Pass
		699.7	6	0	1.114	/	Pass
		707.5	6	0	1.112	/	Pass
		715.3	6	0	1.117	/	Pass
3	QPSK	700.5	15	0	2.738	/	Pass
		707.5	15	0	2.751	/	Pass
		714.5	15	0	2.738	/	Pass
	16QAM	700.5	15	0	2.735	/	Pass
		707.5	15	0	2.735	/	Pass
		714.5	15	0	2.734	/	Pass
5	QPSK	701.5	25	0	4.556	/	Pass
		707.5	25	0	4.525	/	Pass
		713.5	25	0	4.527	/	Pass
	16QAM	701.5	25	0	4.537	/	Pass
		707.5	25	0	4.556	/	Pass
		713.5	25	0	4.558	/	Pass
10	QPSK	704	50	0	9.064	/	Pass
		707.5	50	0	9.045	/	Pass
		711	50	0	9.016	/	Pass
	16QAM	704	50	0	9.070	/	Pass
		707.5	50	0	9.011	/	Pass
		711	50	0	9.014	/	Pass

3.1.2 Band12_XDB

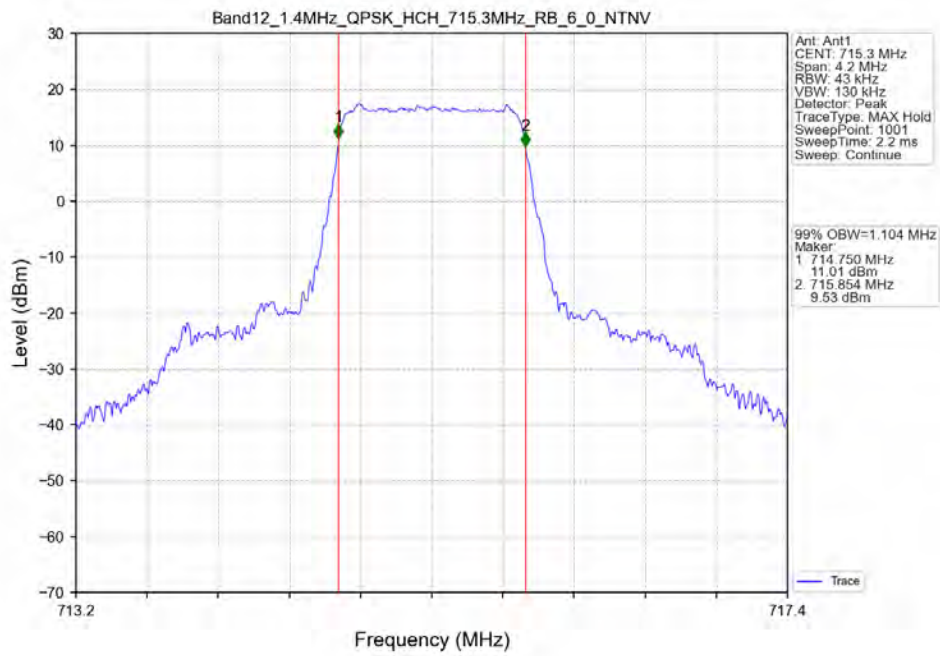
Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.304	/	Pass
		707.5	6	0	1.318	/	Pass
		715.3	6	0	1.319	/	Pass
	16QAM	699.7	6	0	1.312	/	Pass
		707.5	6	0	1.329	/	Pass
		715.3	6	0	1.324	/	Pass
3	QPSK	700.5	15	0	3.083	/	Pass
		707.5	15	0	3.047	/	Pass
		714.5	15	0	3.028	/	Pass
	16QAM	700.5	15	0	3.049	/	Pass
		707.5	15	0	3.053	/	Pass
		714.5	15	0	3.055	/	Pass
5	QPSK	701.5	25	0	5.088	/	Pass
		707.5	25	0	5.071	/	Pass
		713.5	25	0	5.044	/	Pass
	16QAM	701.5	25	0	5.098	/	Pass
		707.5	25	0	5.076	/	Pass
		713.5	25	0	5.124	/	Pass
10	QPSK	704	50	0	10.204	/	Pass
		707.5	50	0	10.044	/	Pass
		711	50	0	9.997	/	Pass
	16QAM	704	50	0	9.983	/	Pass
		707.5	50	0	10.007	/	Pass
		711	50	0	10.037	/	Pass

3.2 Test Graph

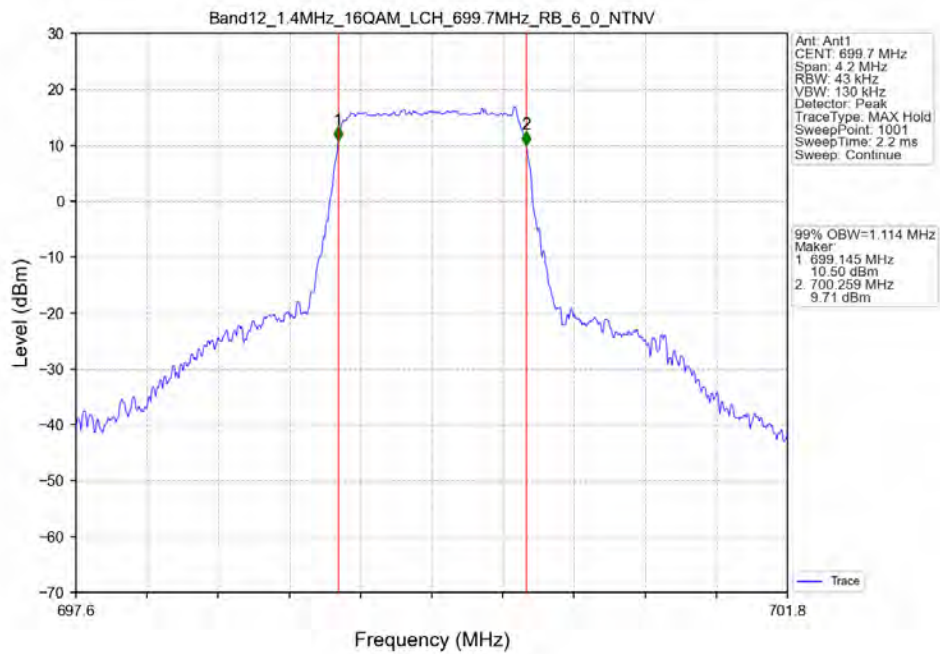
3.2.1 Band12_OBW



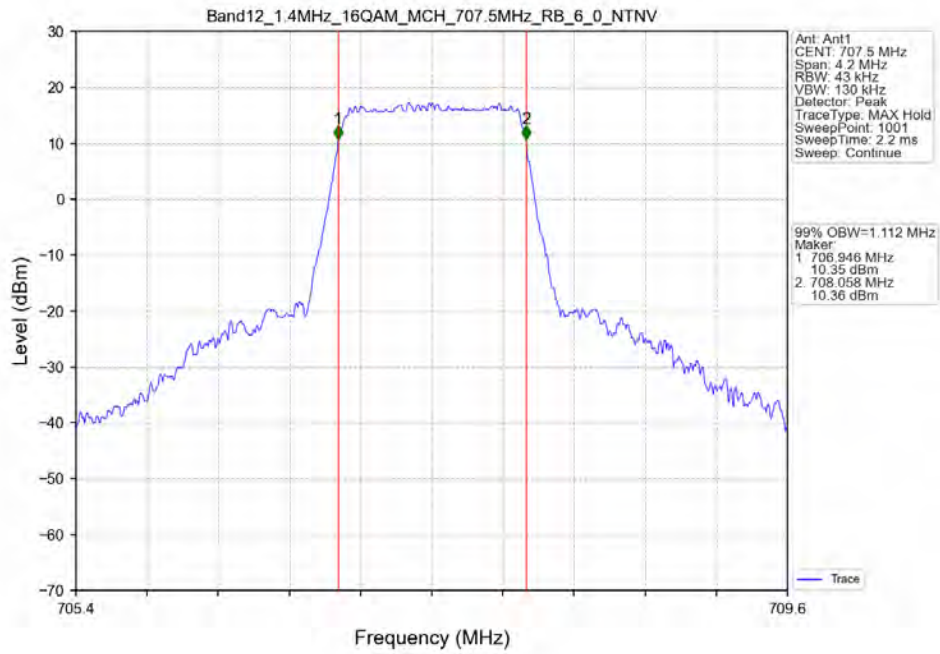
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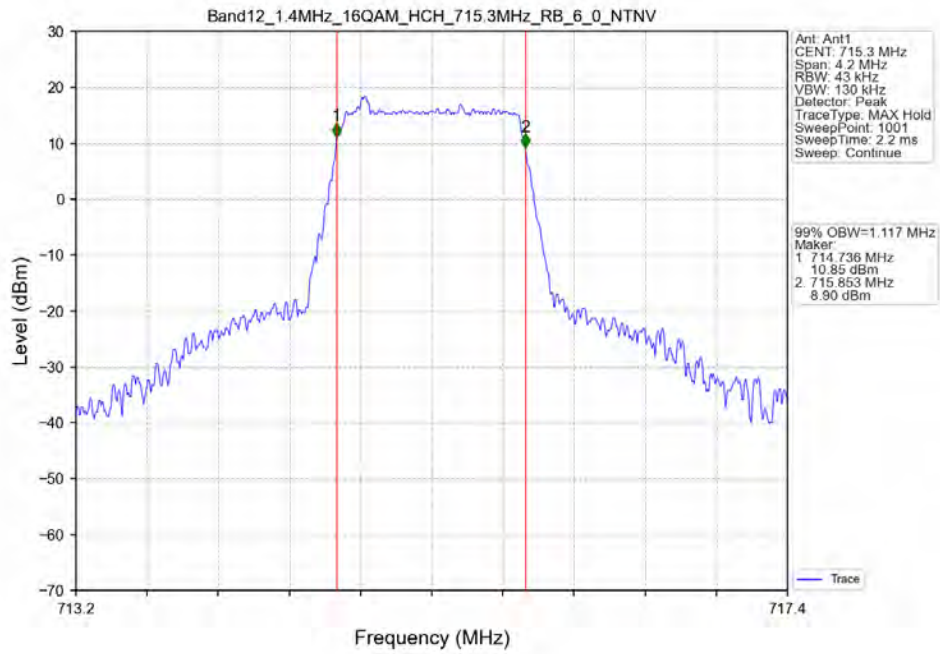
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



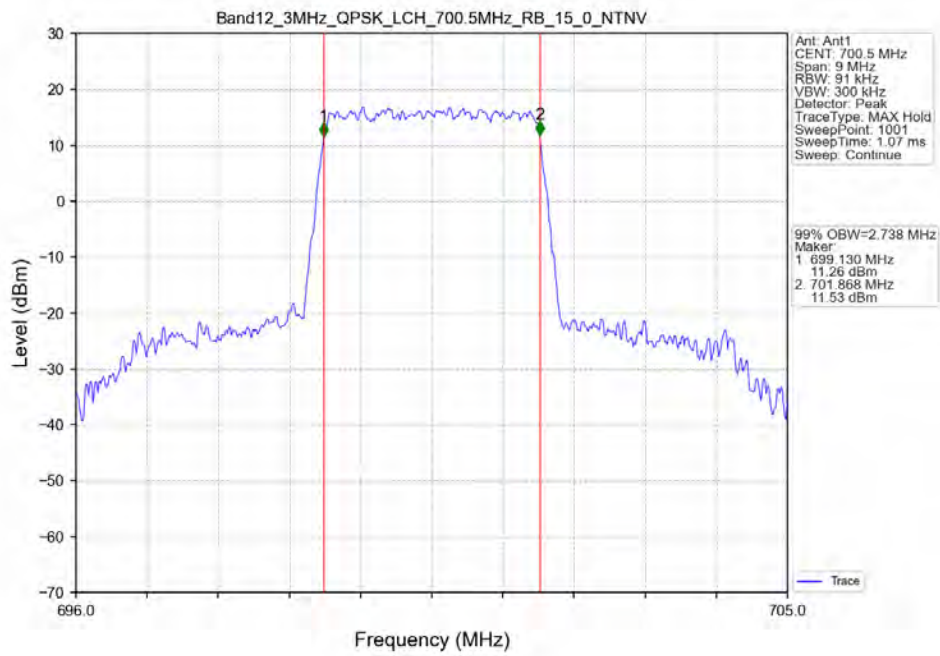
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



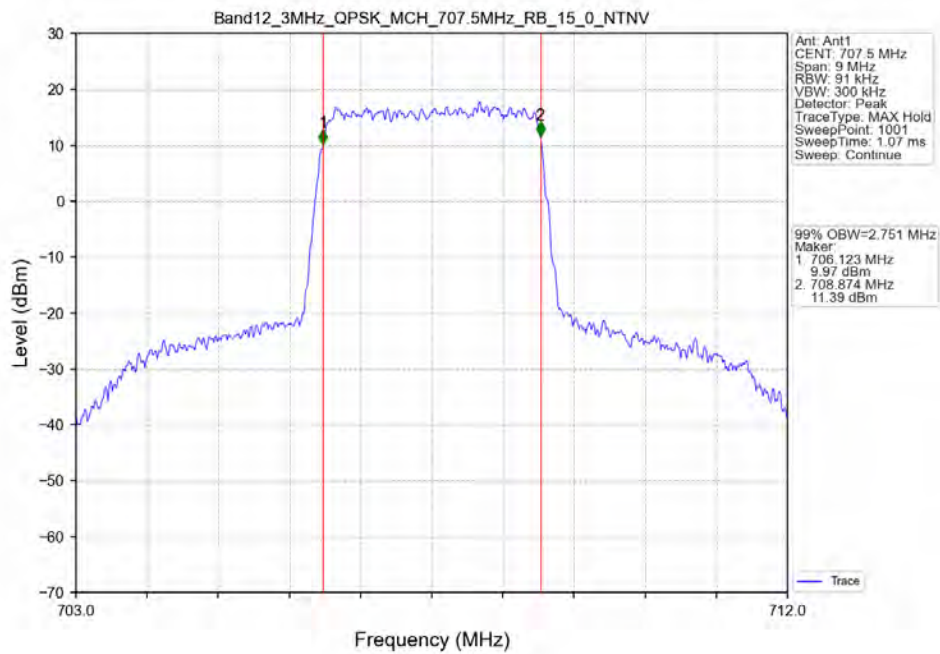
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



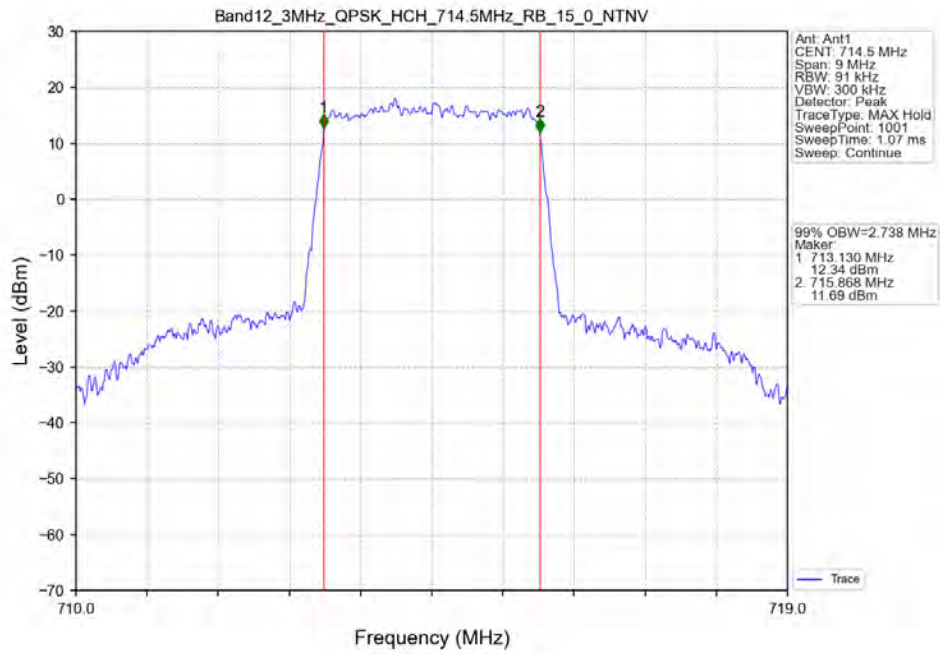
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



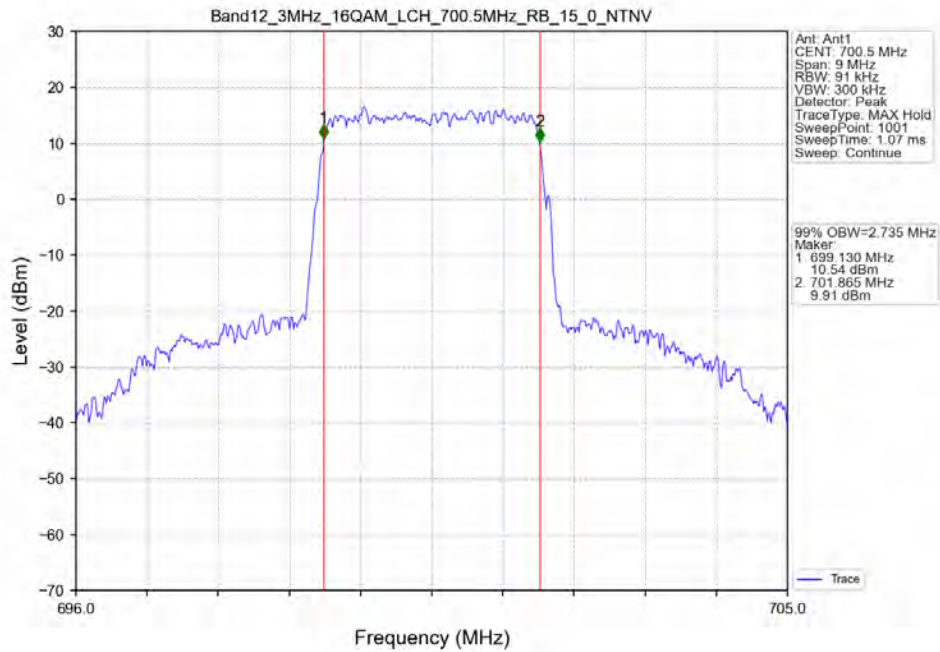
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



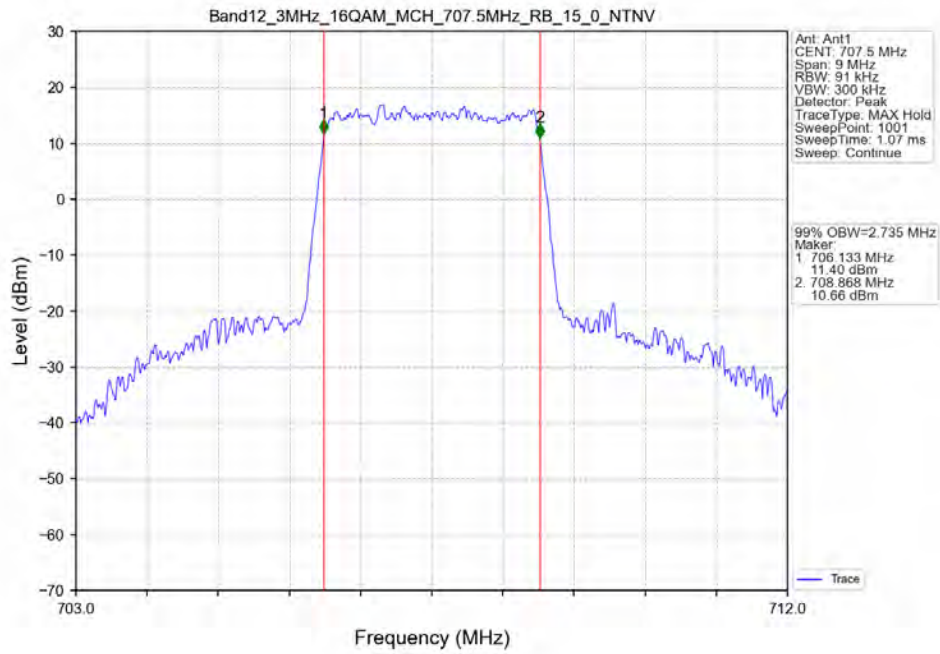
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



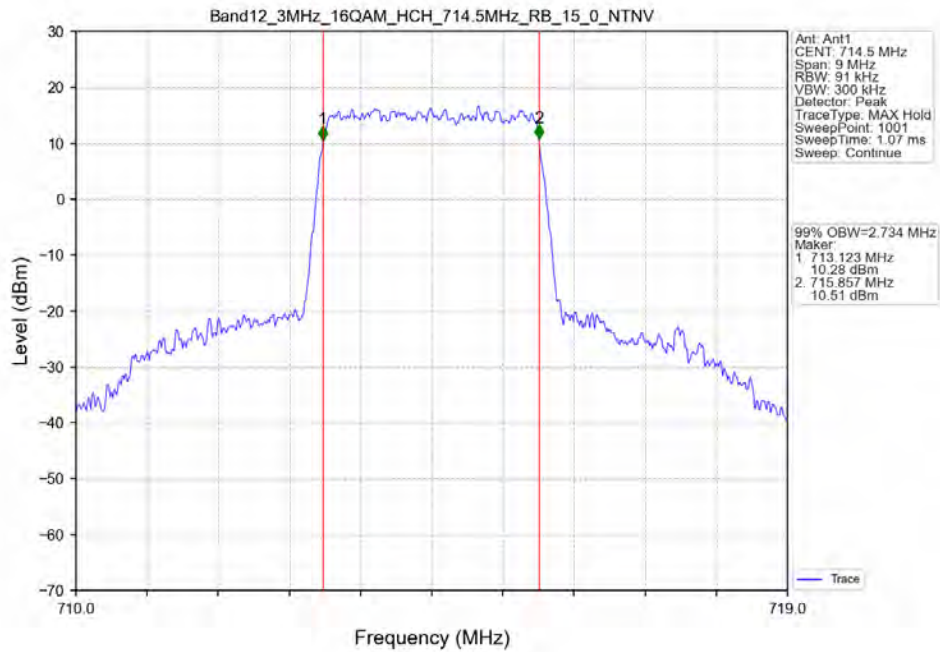
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



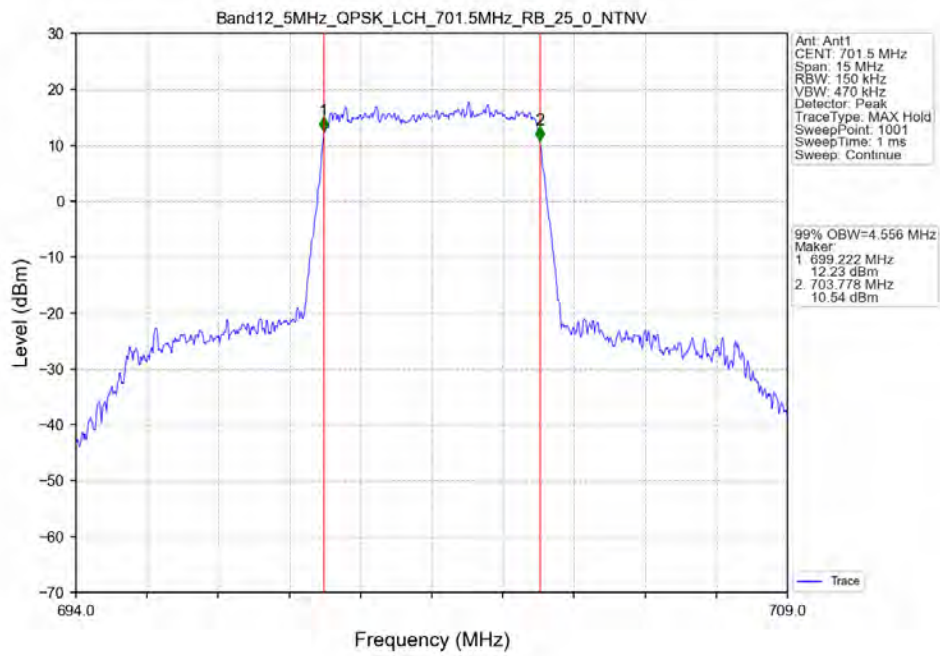
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



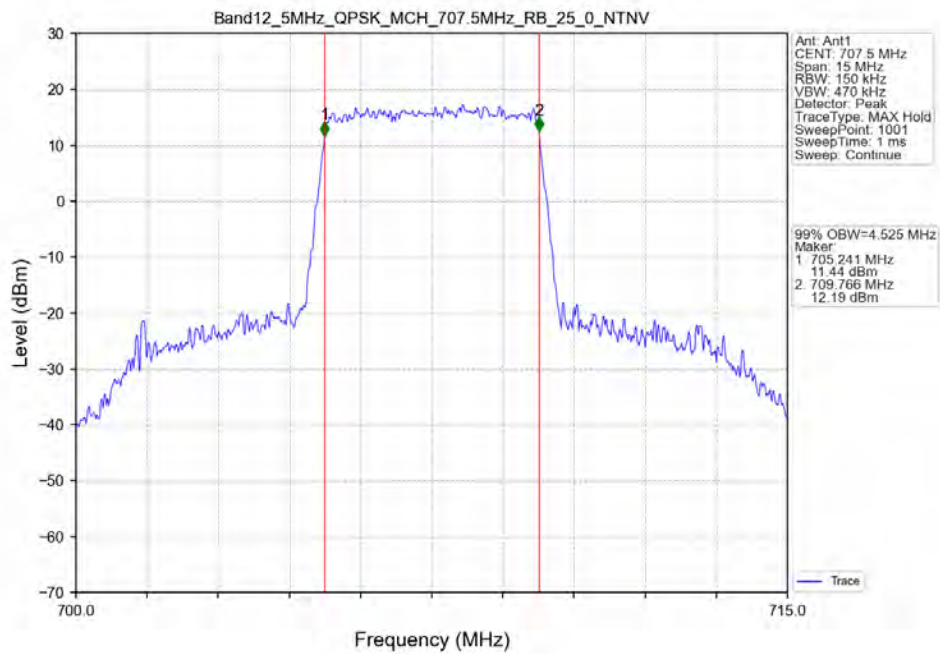
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



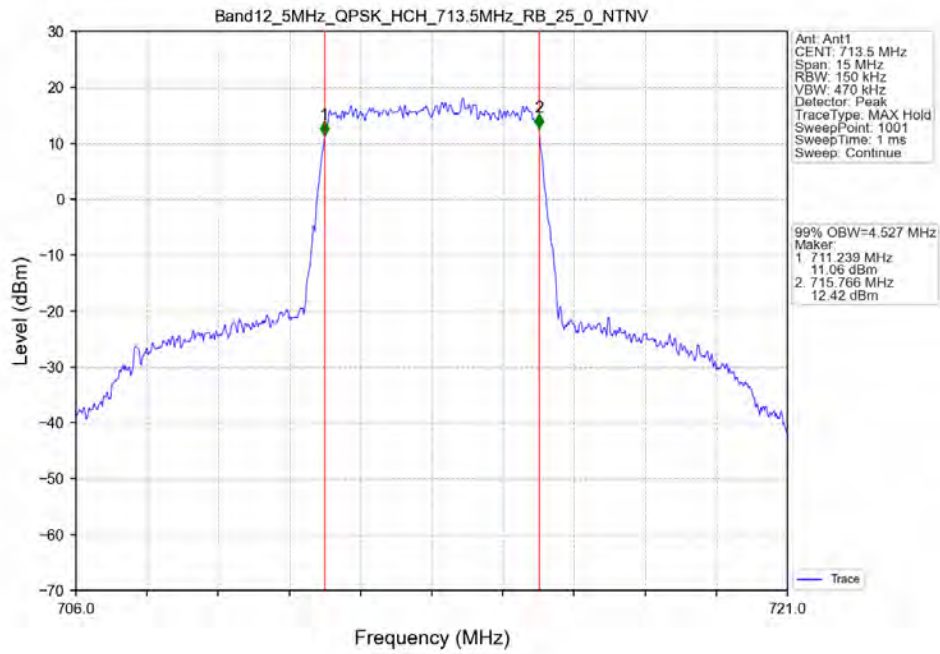
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



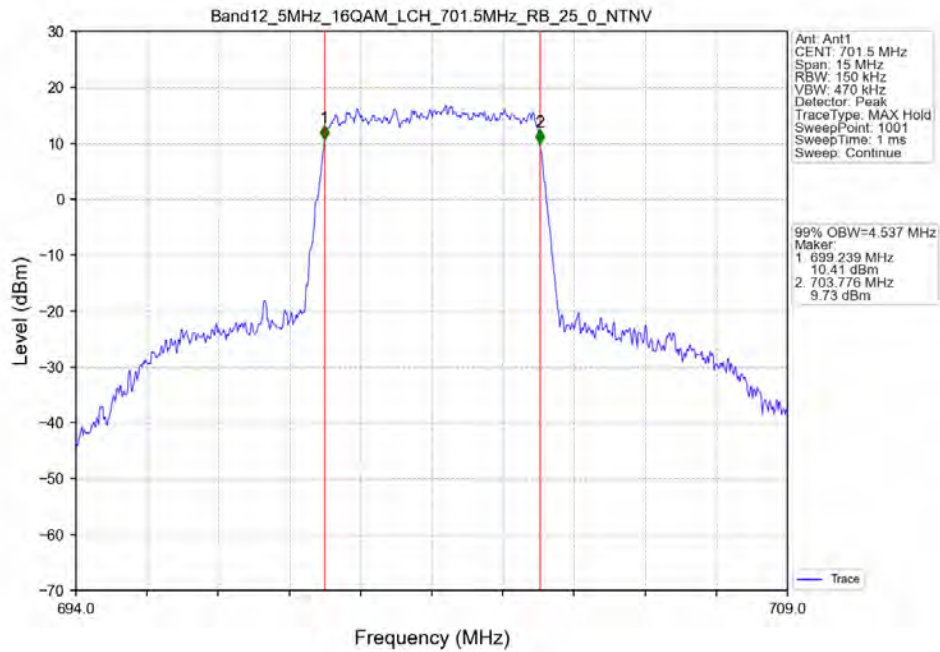
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



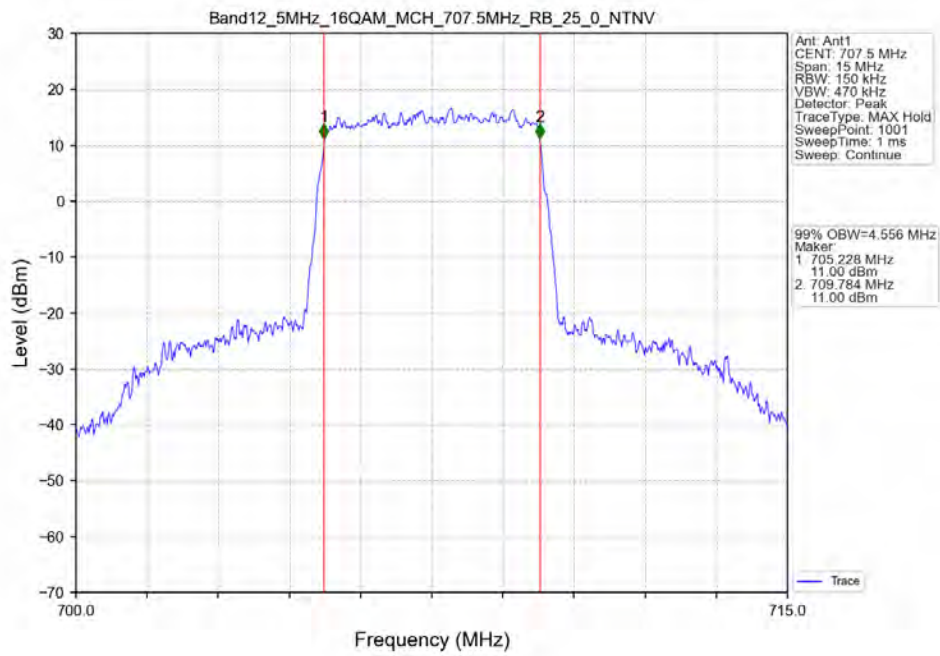
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



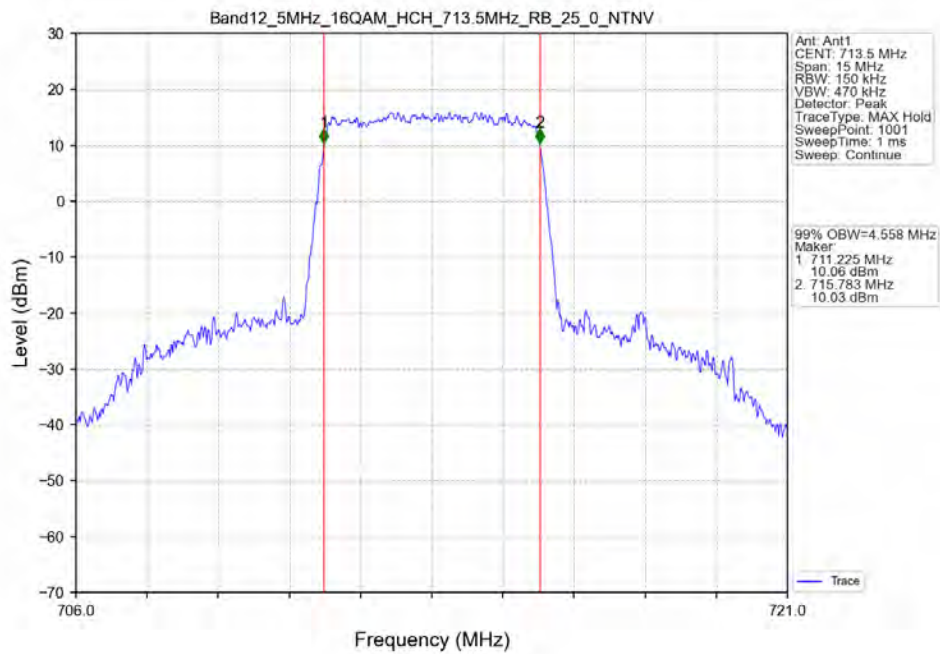
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



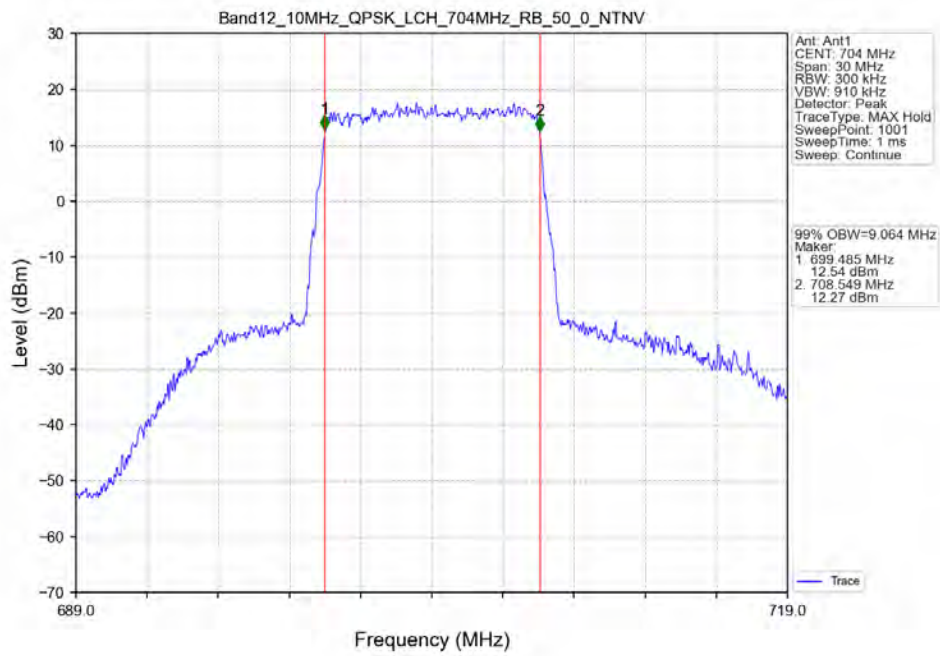
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



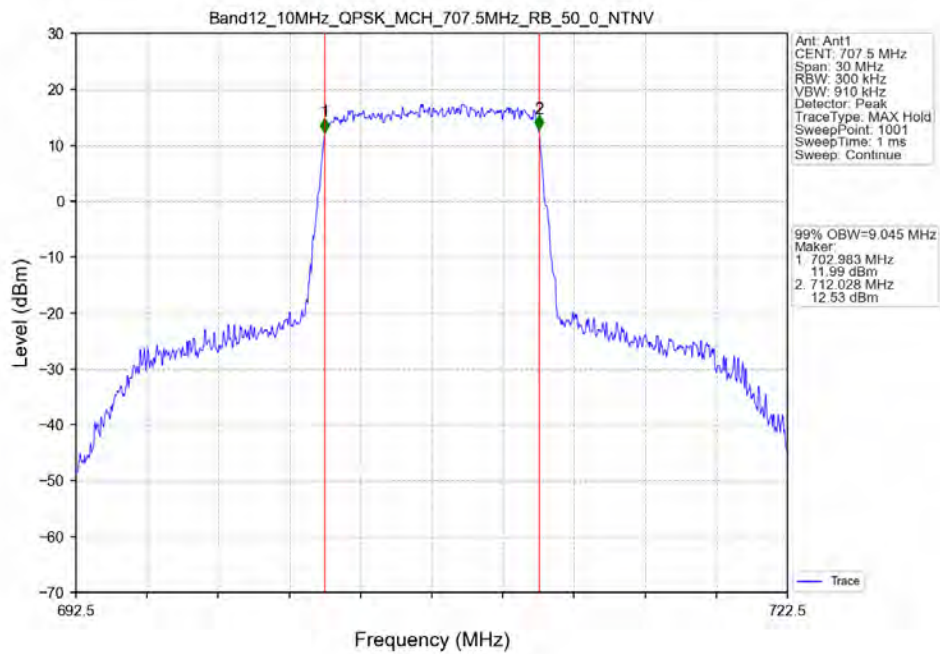
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



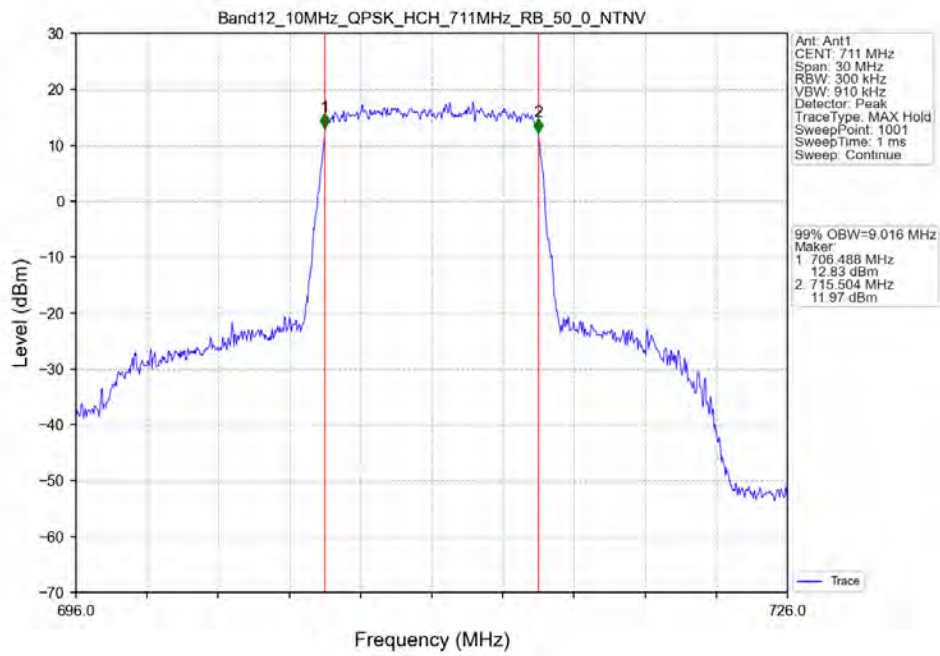
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



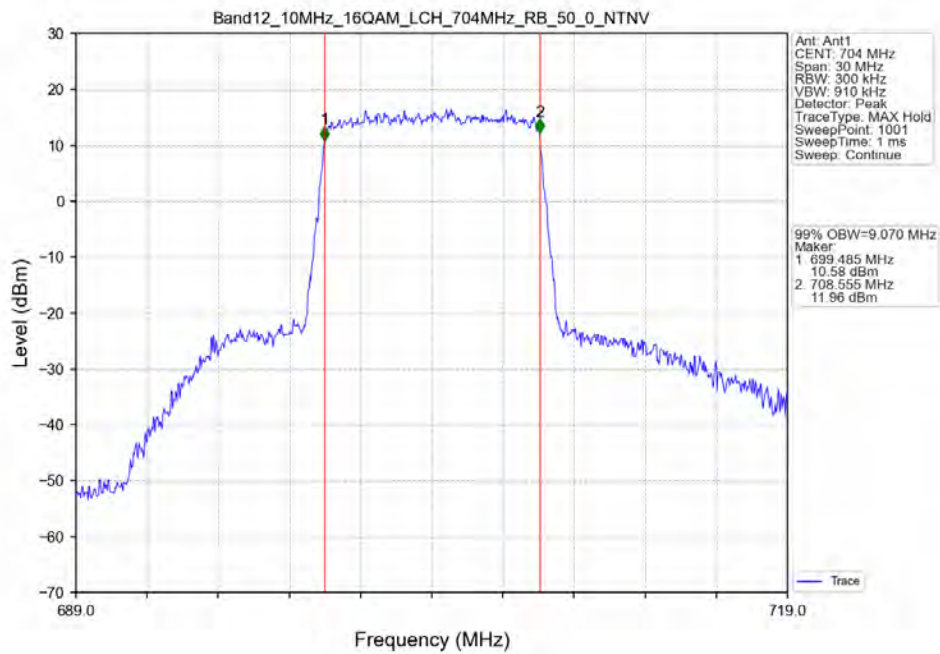
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



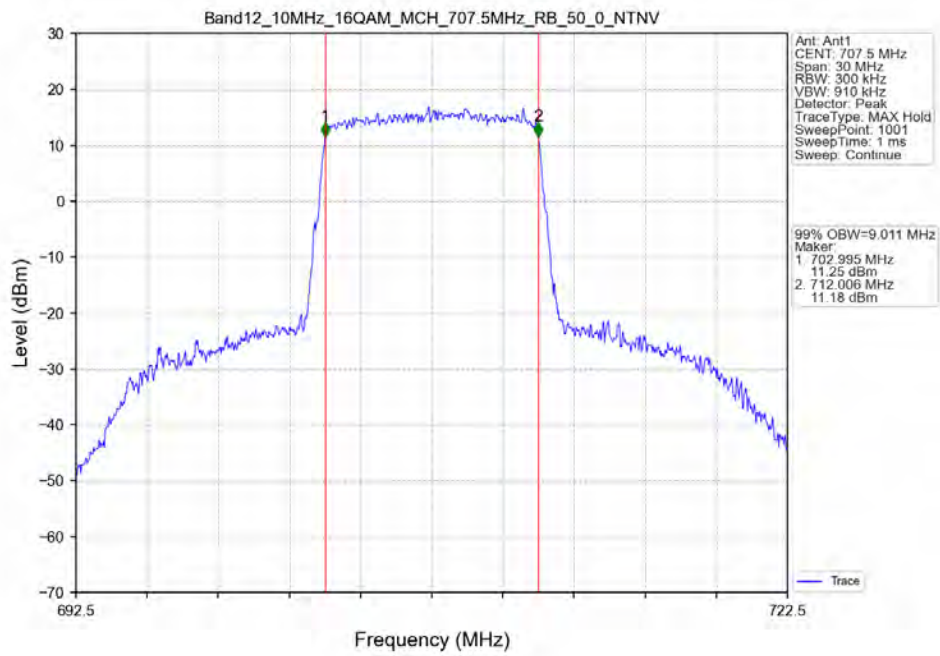
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



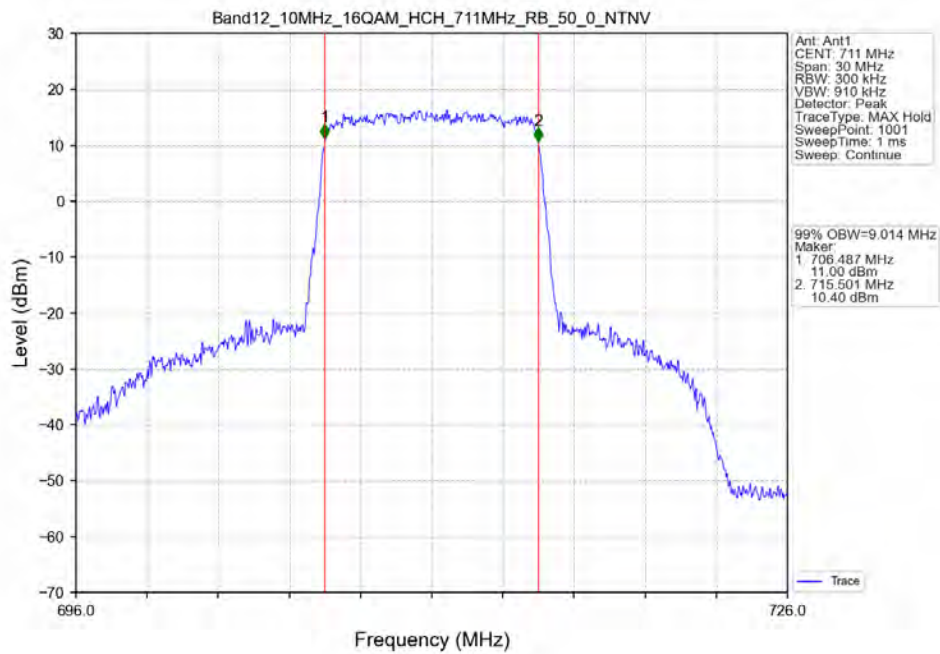
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

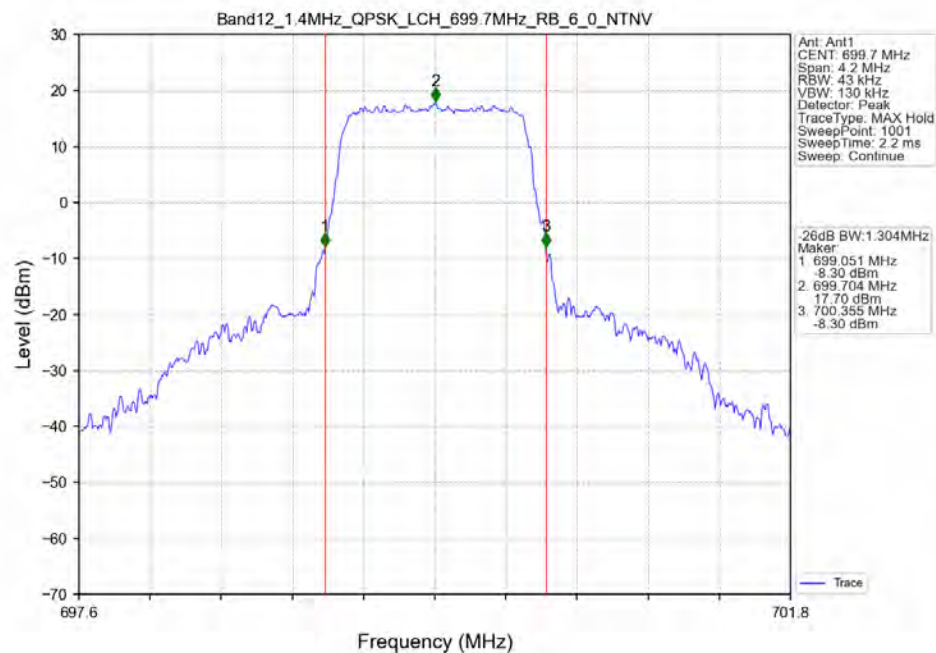


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

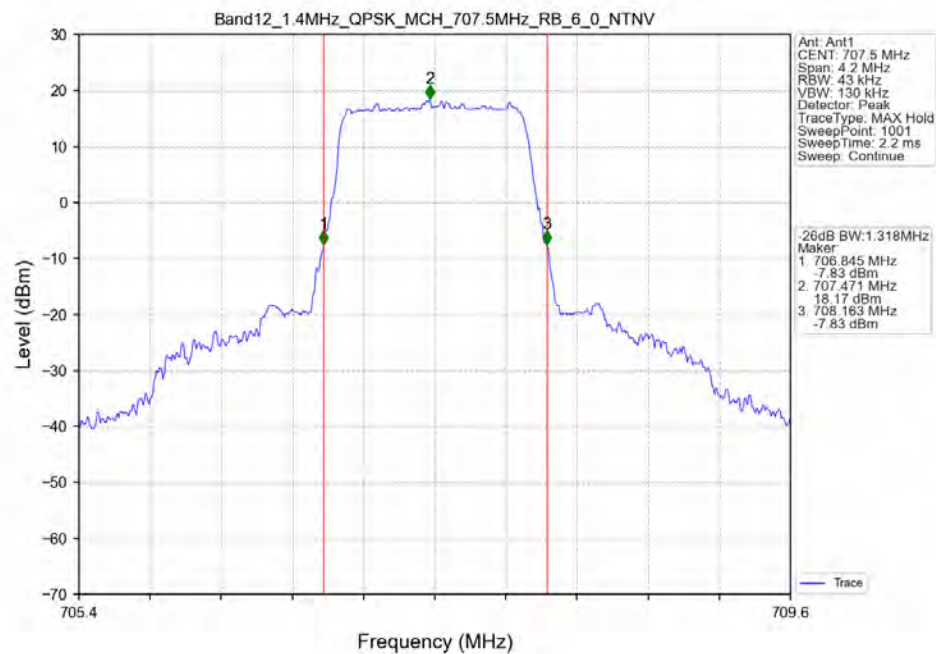


3.2.2 Band12_XDB

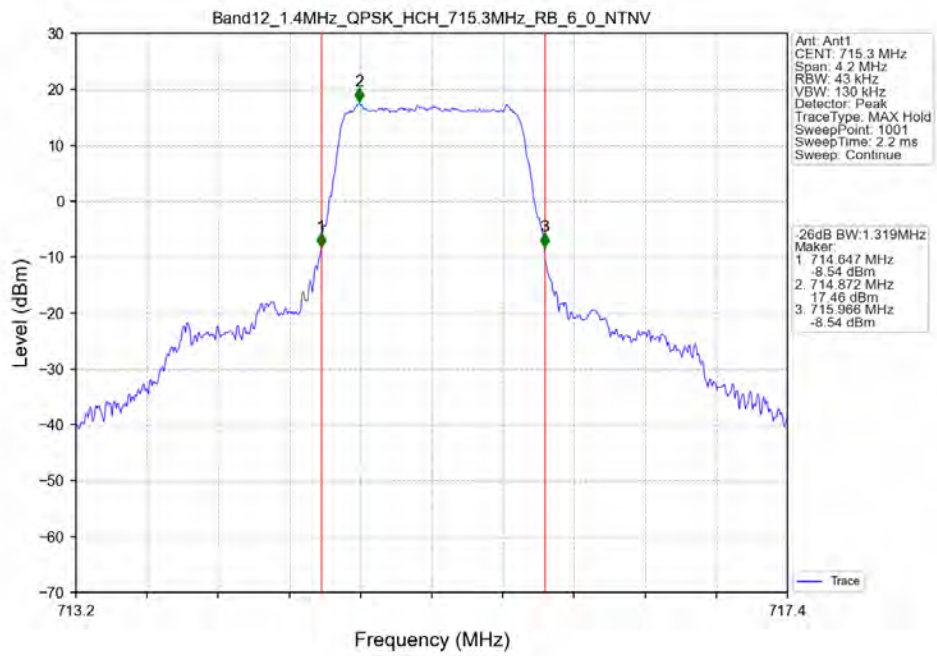
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



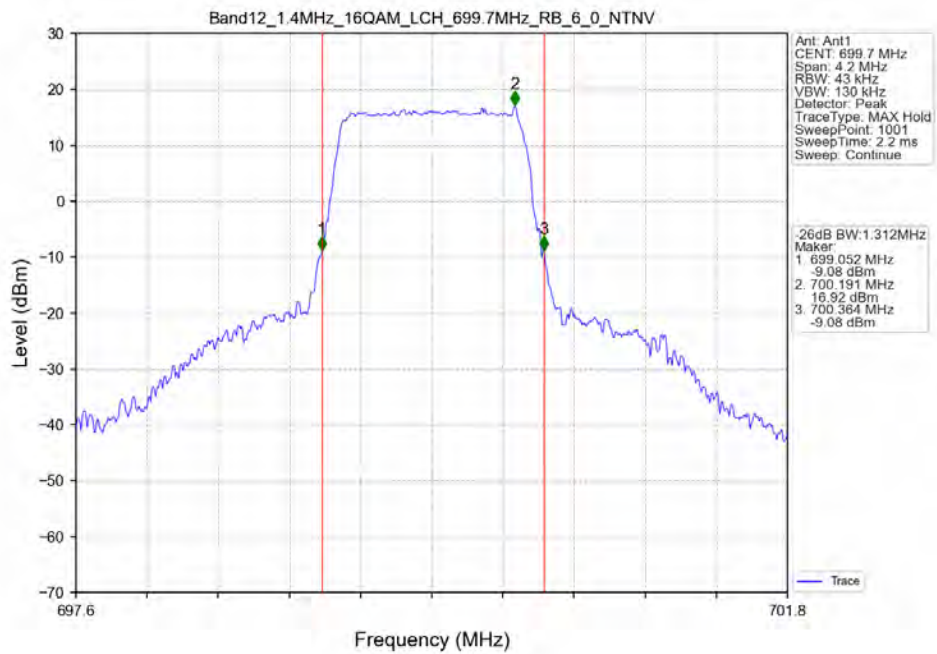
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



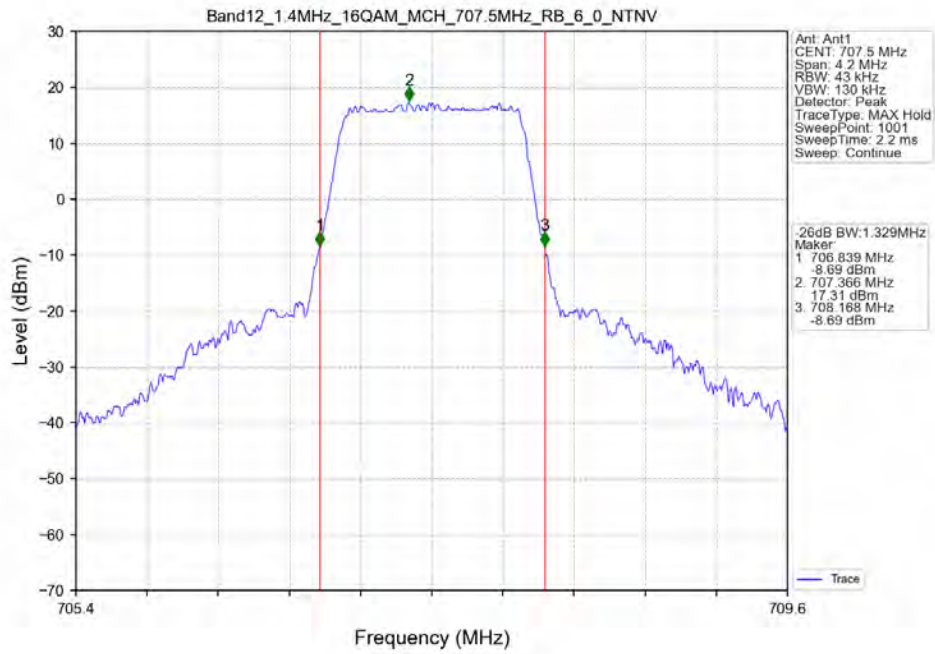
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



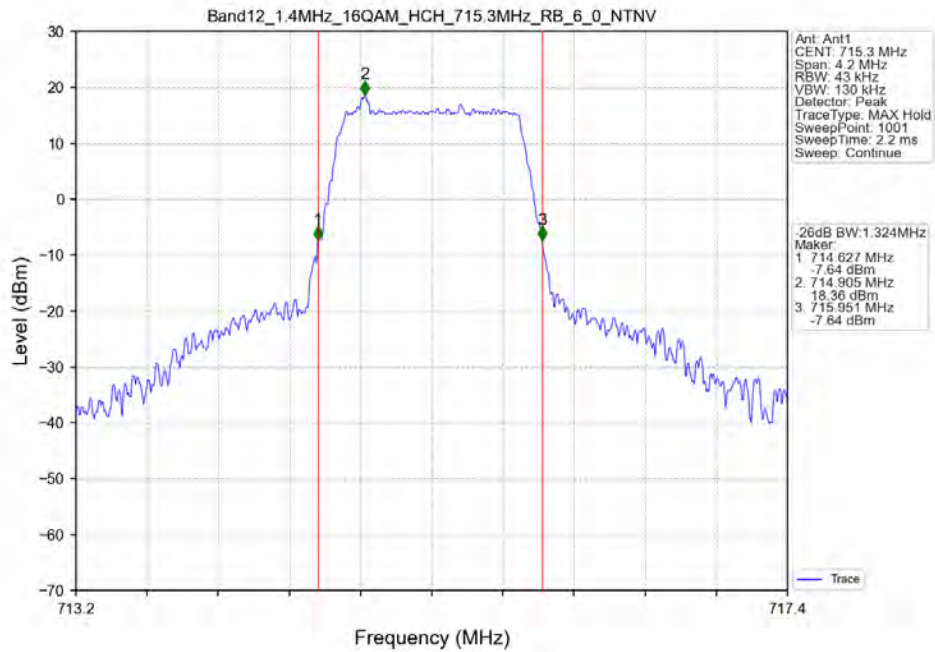
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



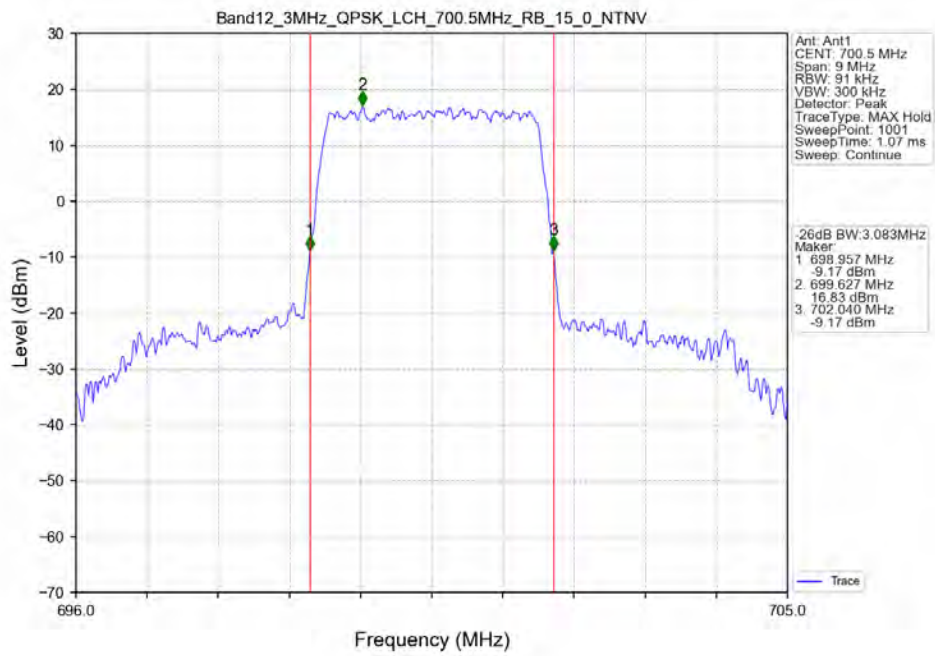
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



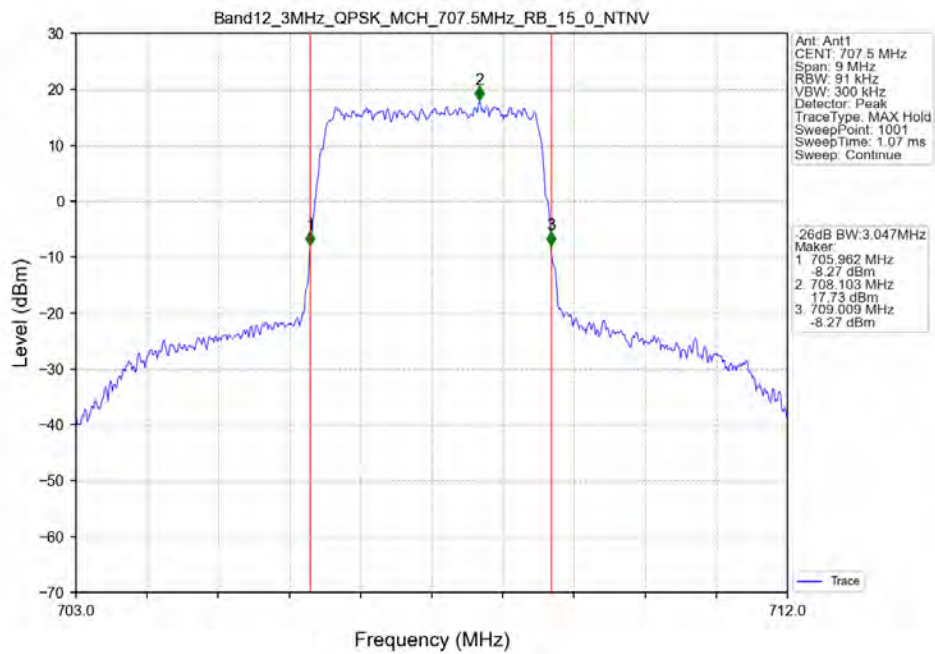
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



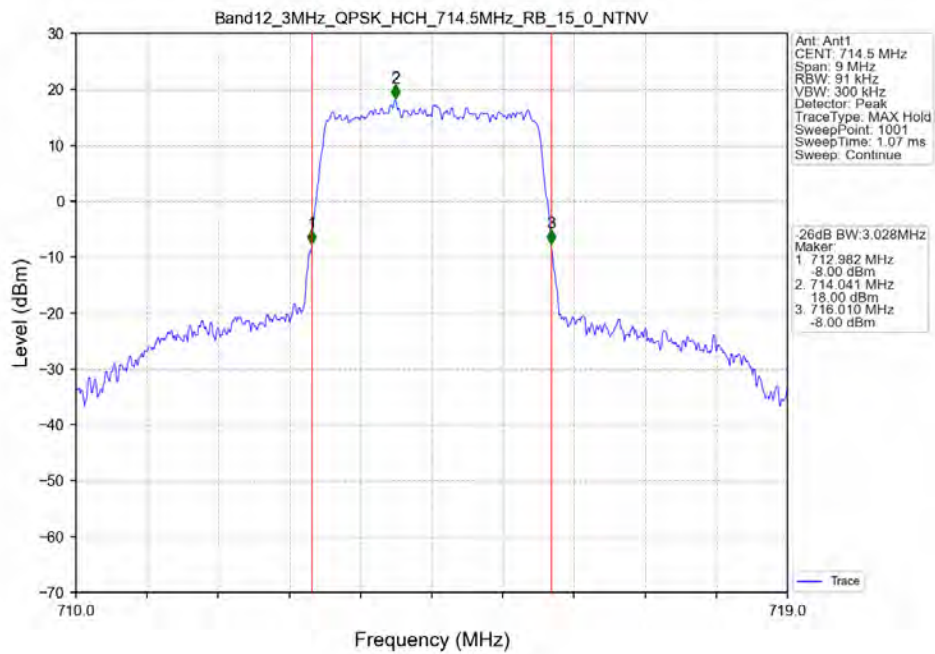
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



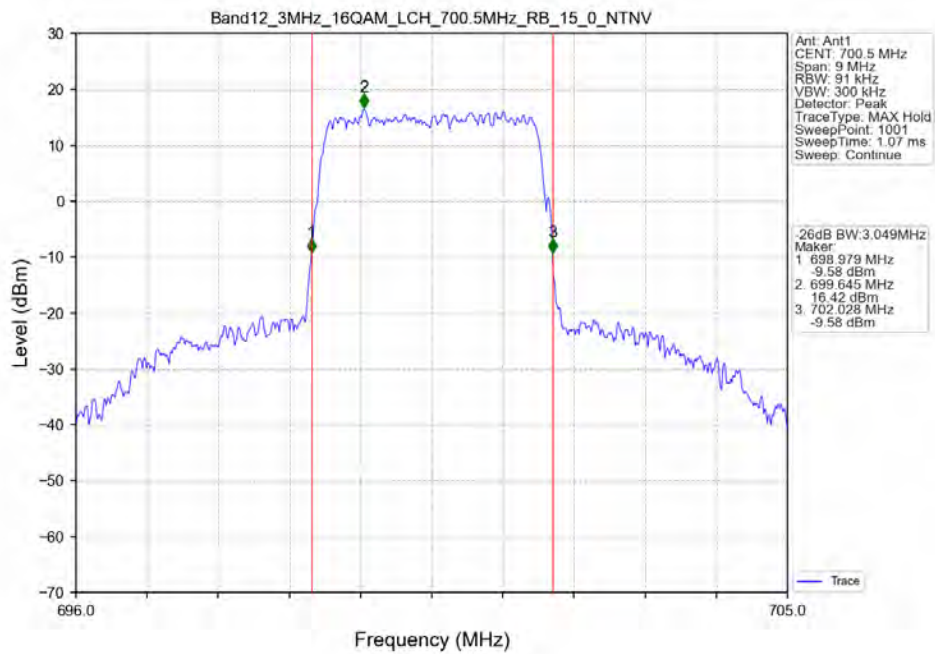
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



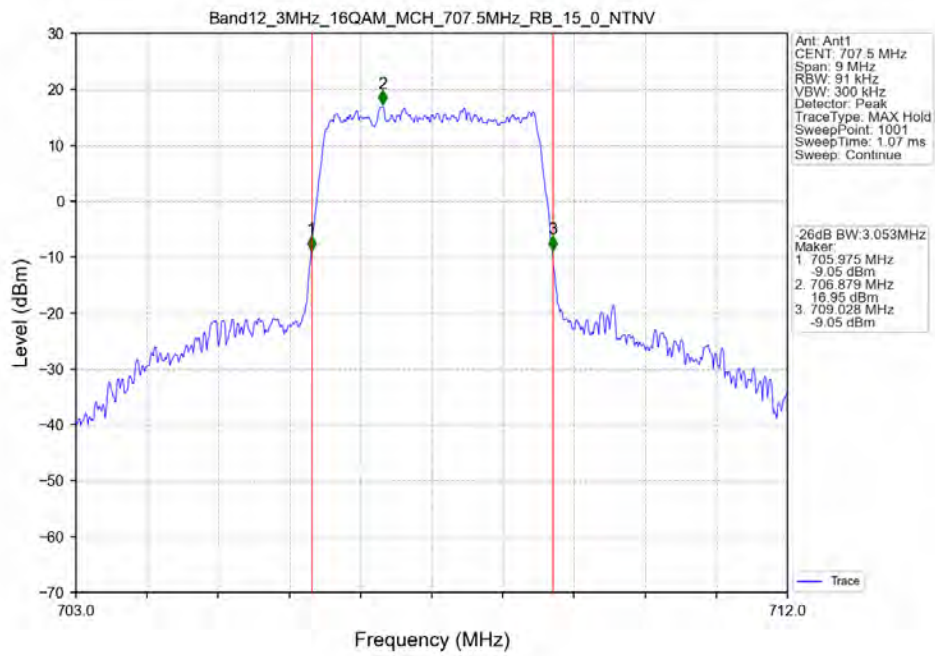
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



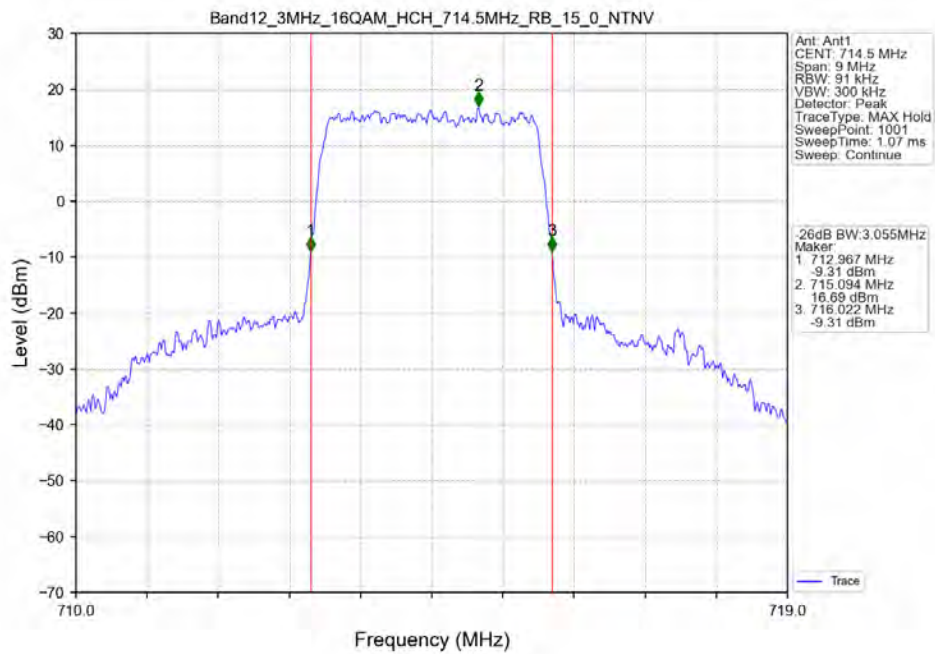
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



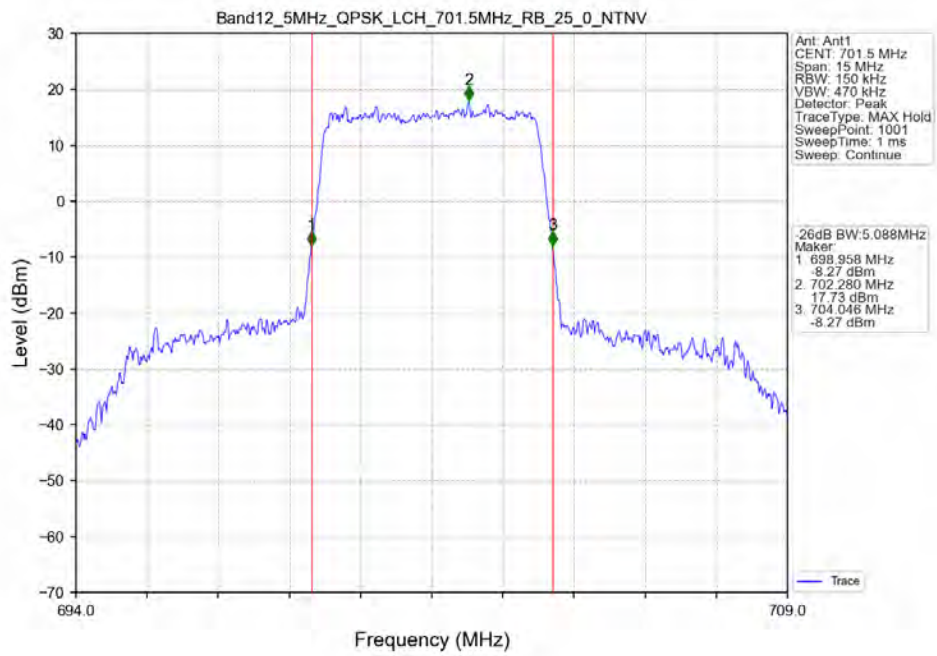
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



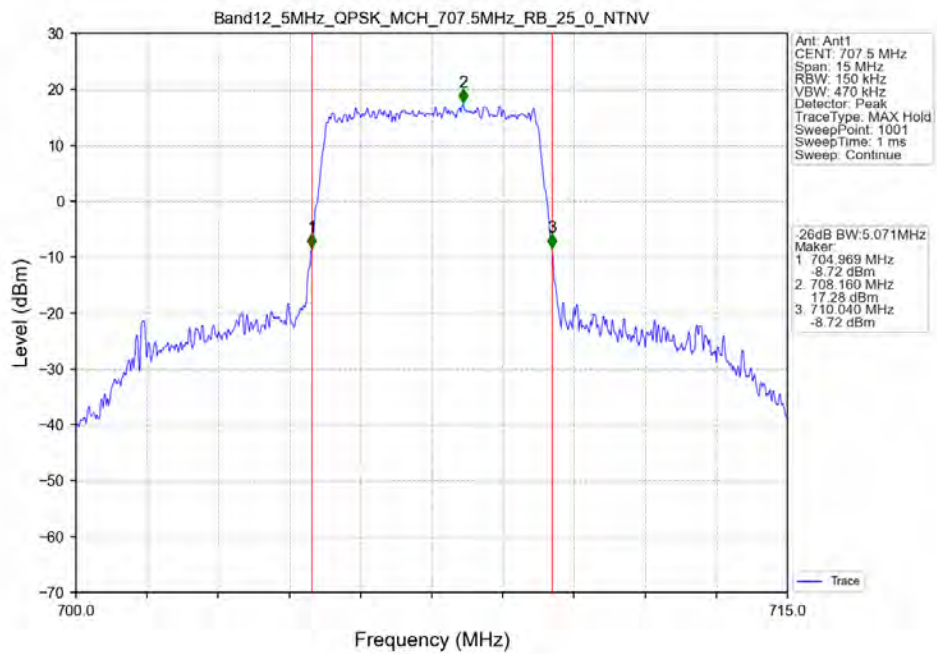
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



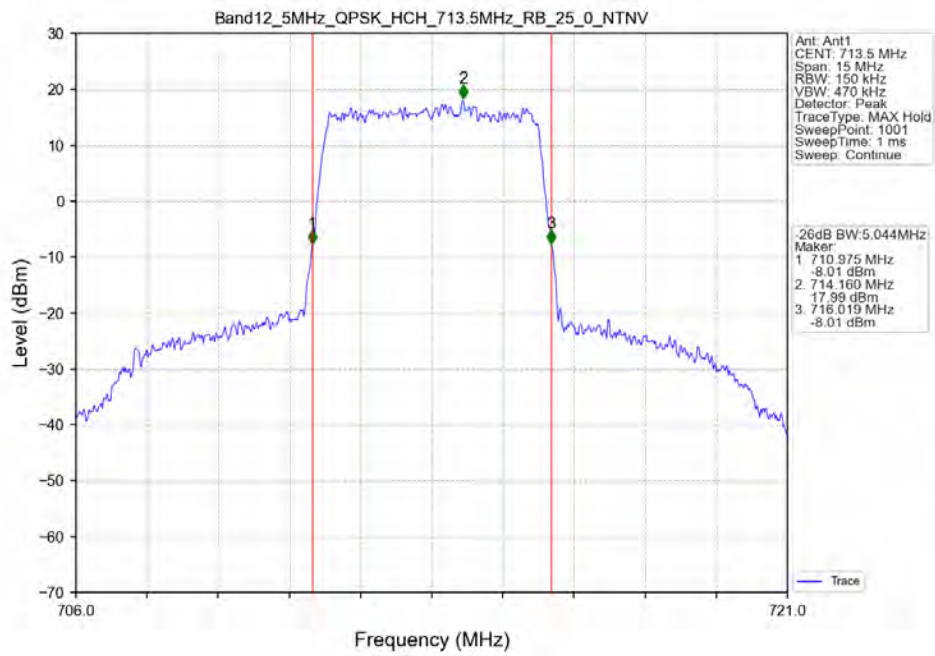
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



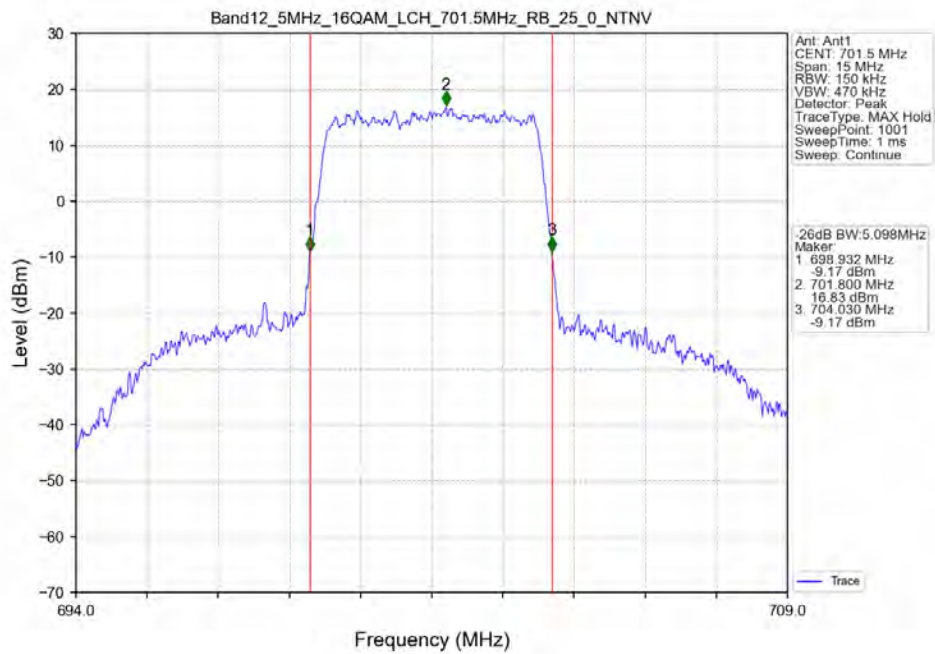
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



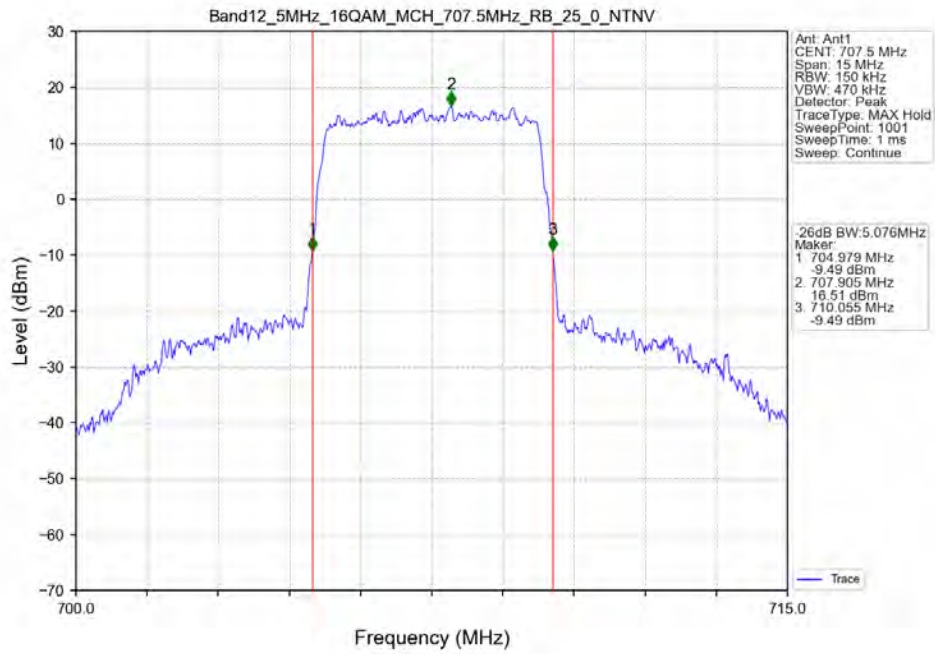
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



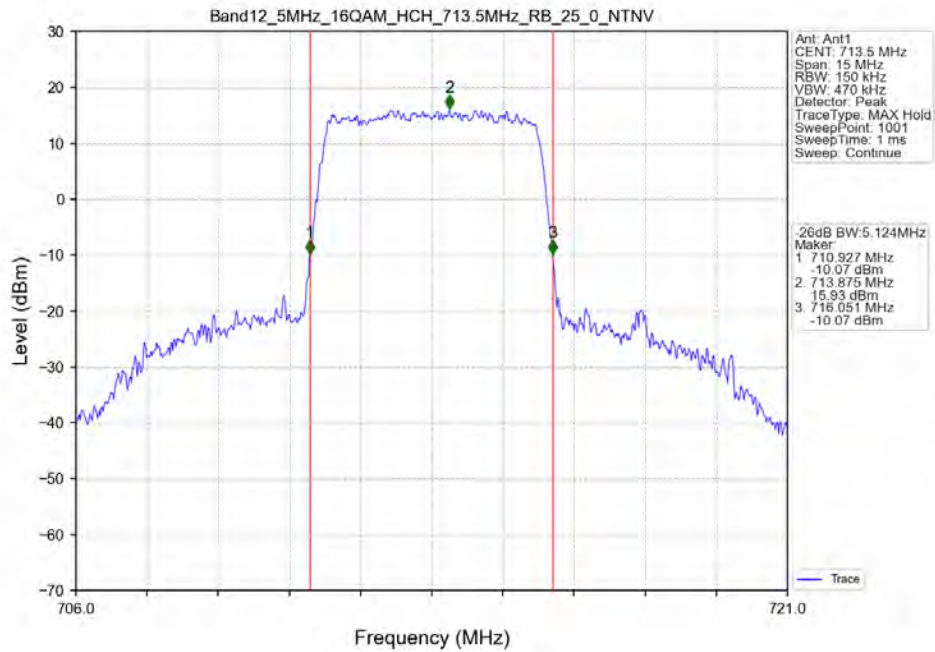
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



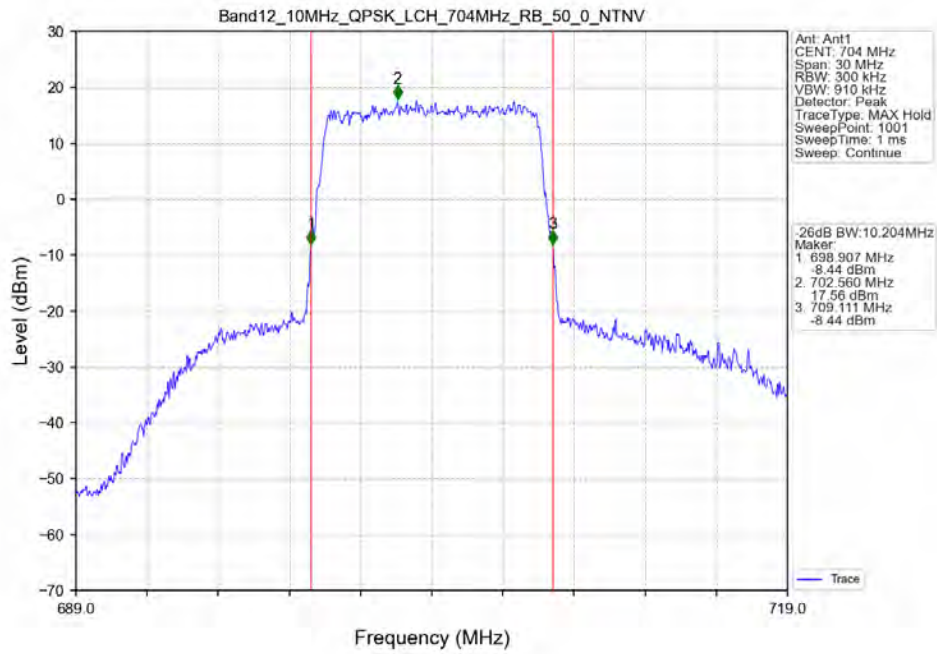
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



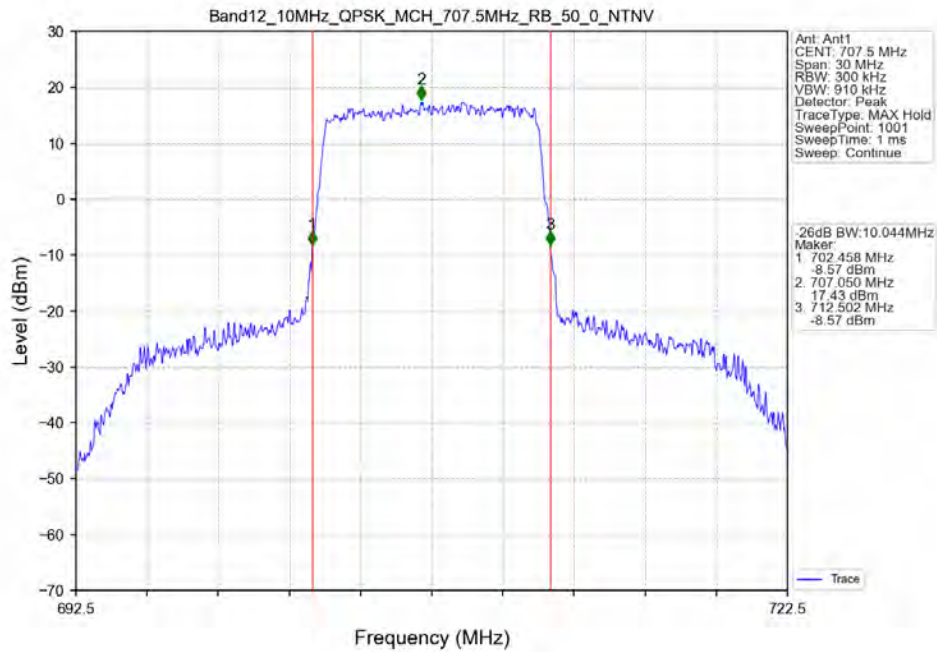
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



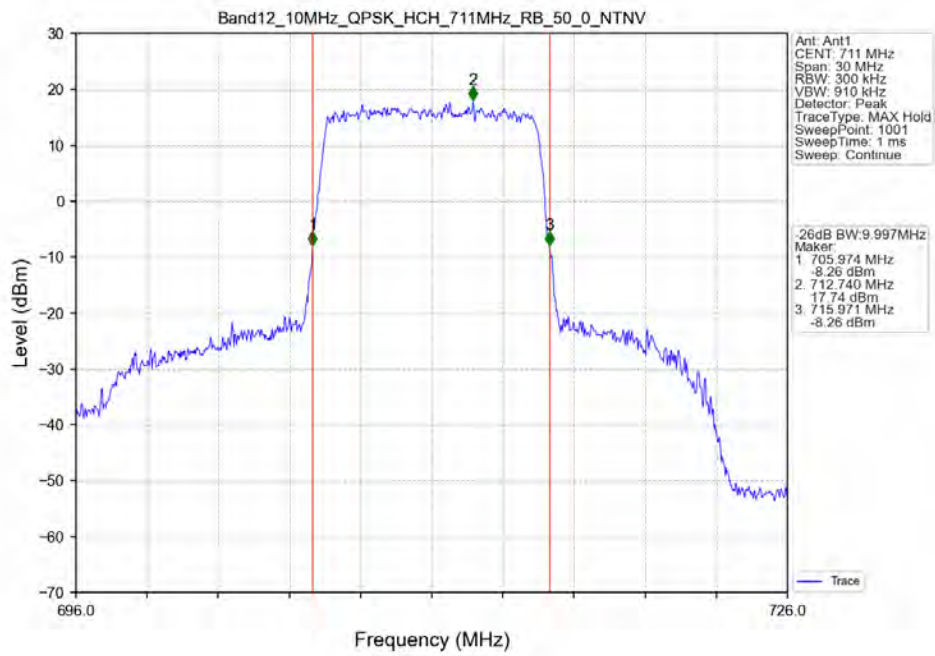
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



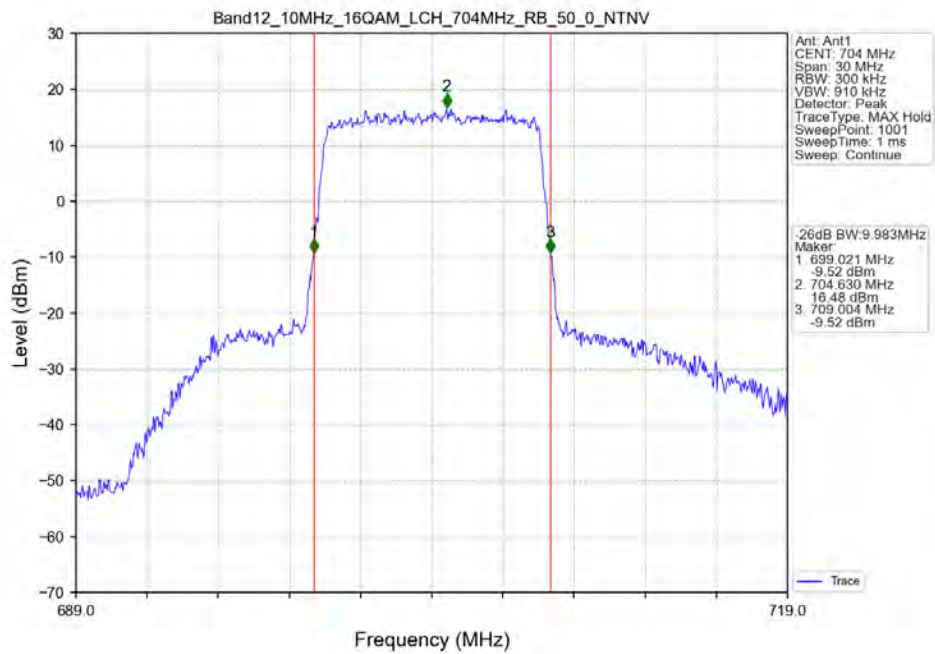
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



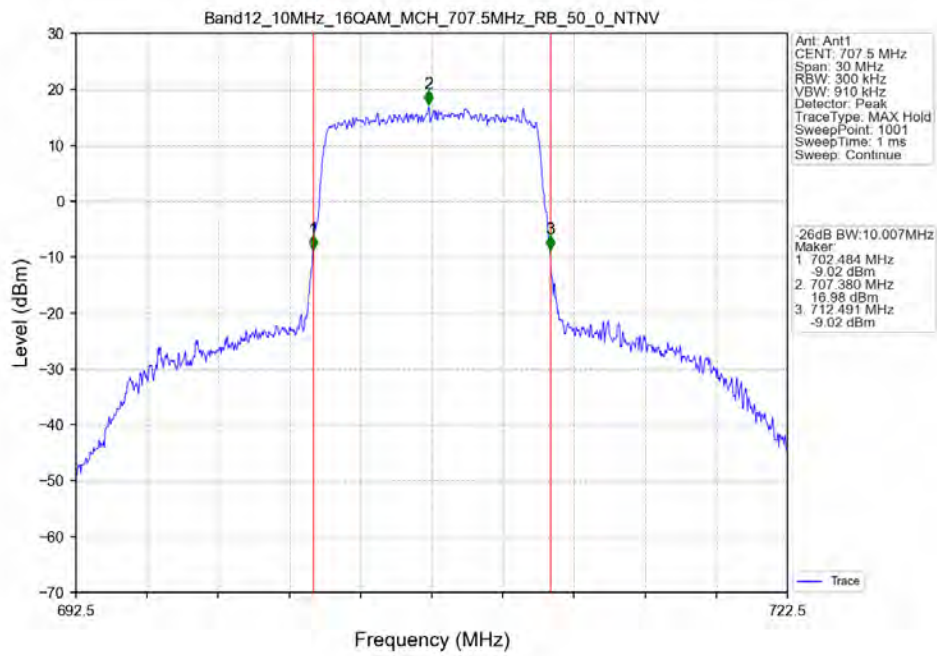
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



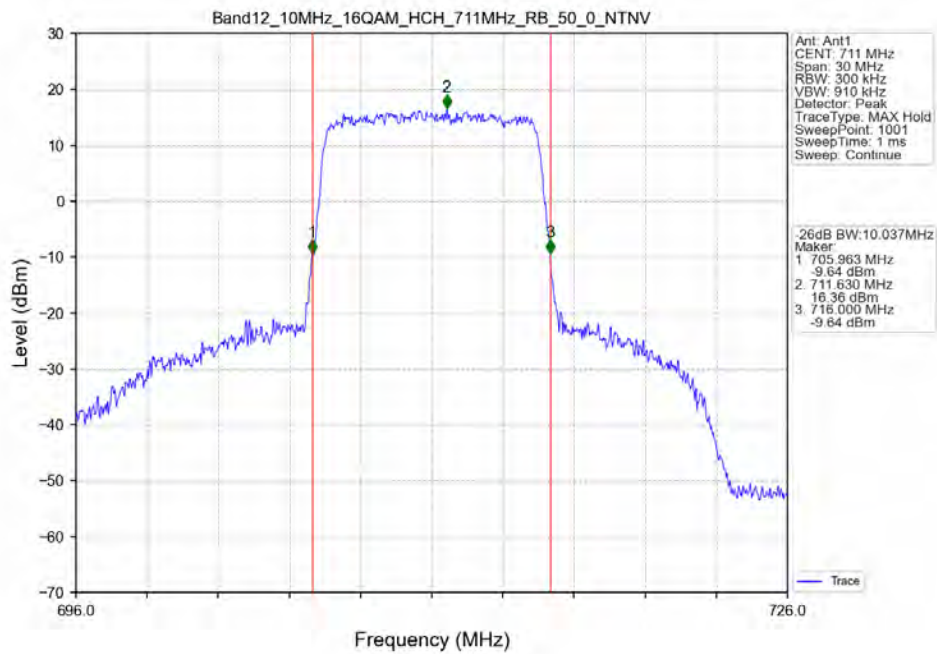
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



4. Peak-Average Ratio

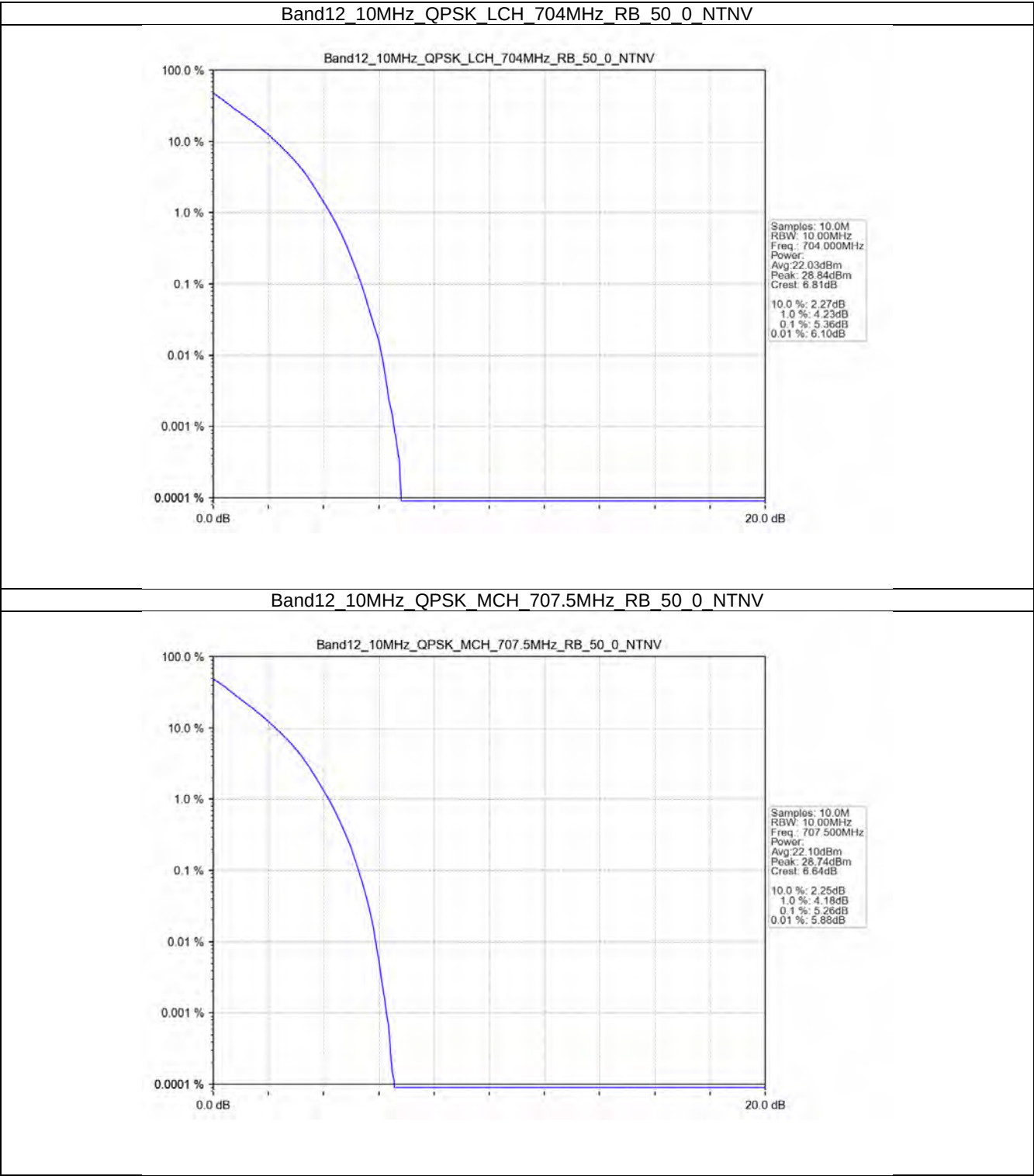
4.1 Test Result

4.1.1 B12_10MHz

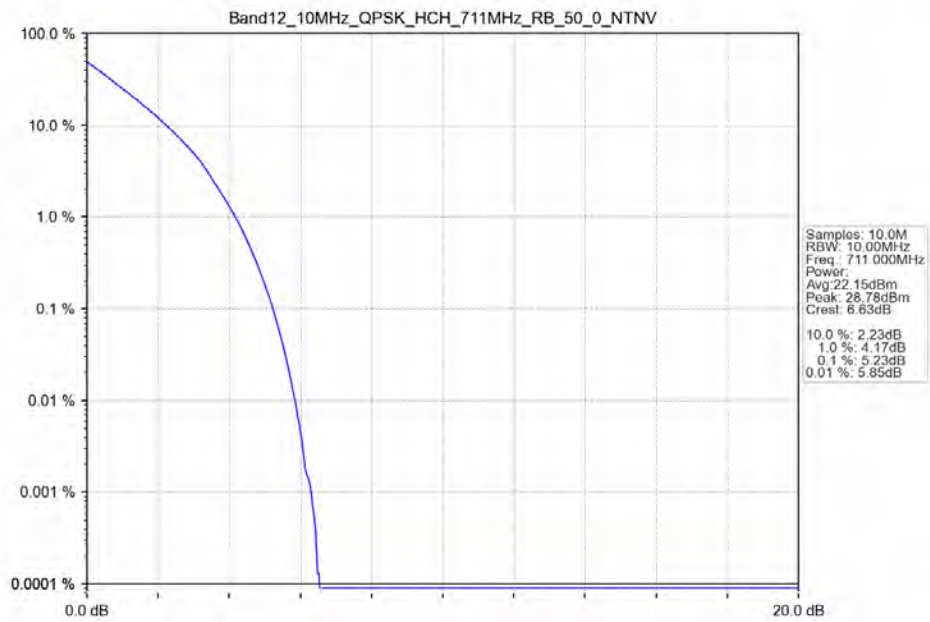
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.36	<=13	Pass
	707.5	50	0	5.26	<=13	Pass
	711	50	0	5.23	<=13	Pass
16QAM	704	50	0	6.06	<=13	Pass
	707.5	50	0	6.05	<=13	Pass
	711	50	0	6.02	<=13	Pass

4.2 Test Graph

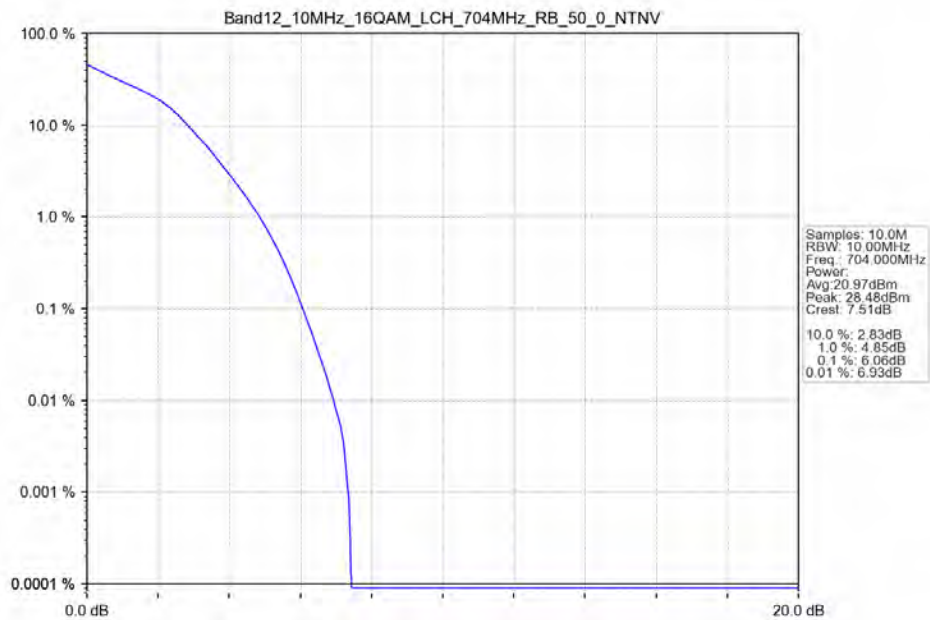
4.2.1 B12_10MHz



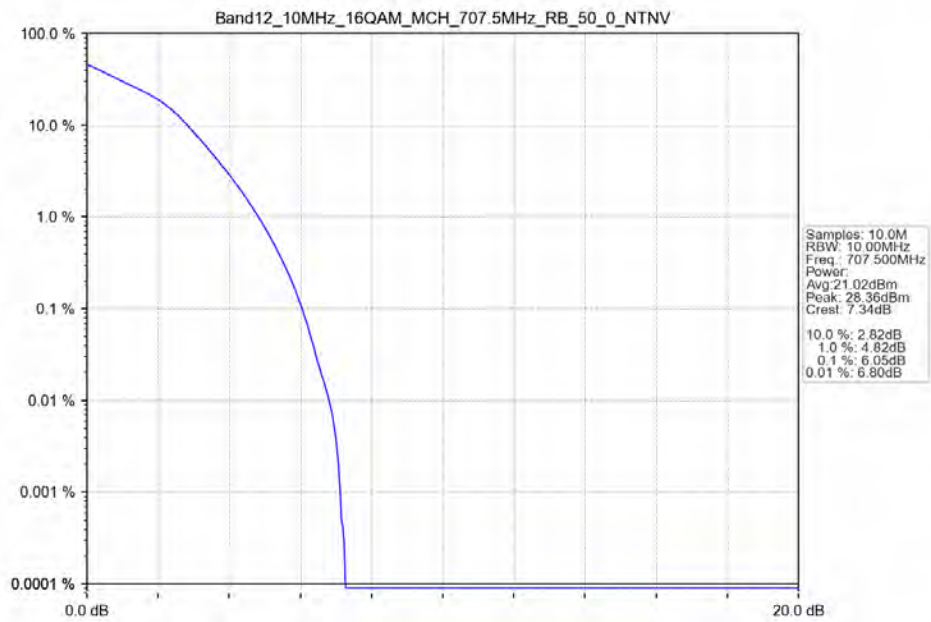
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



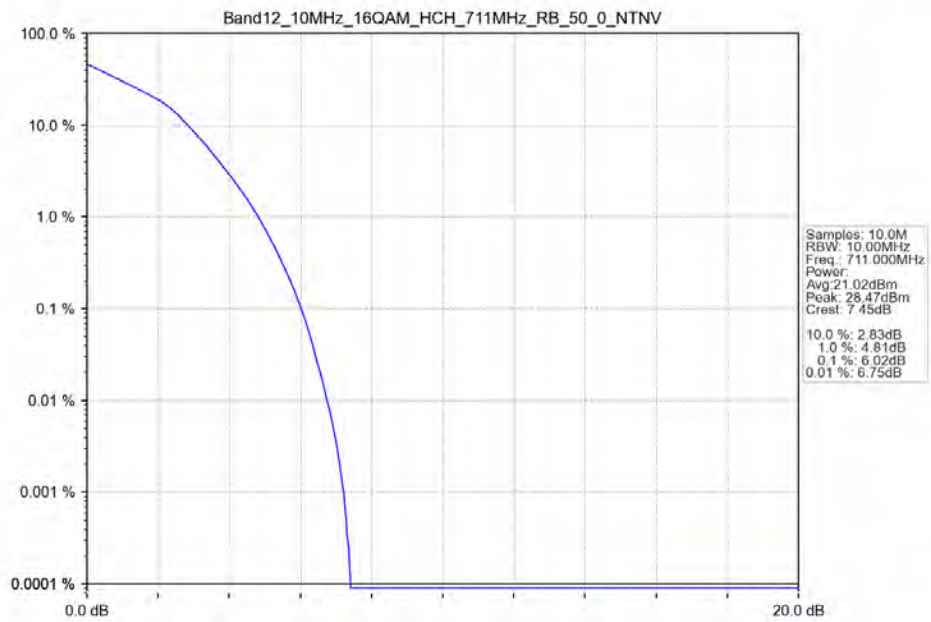
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Spurious Emission & Band Edges

5.1 Test Result

5.1.1 B12_1.4MHz

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

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

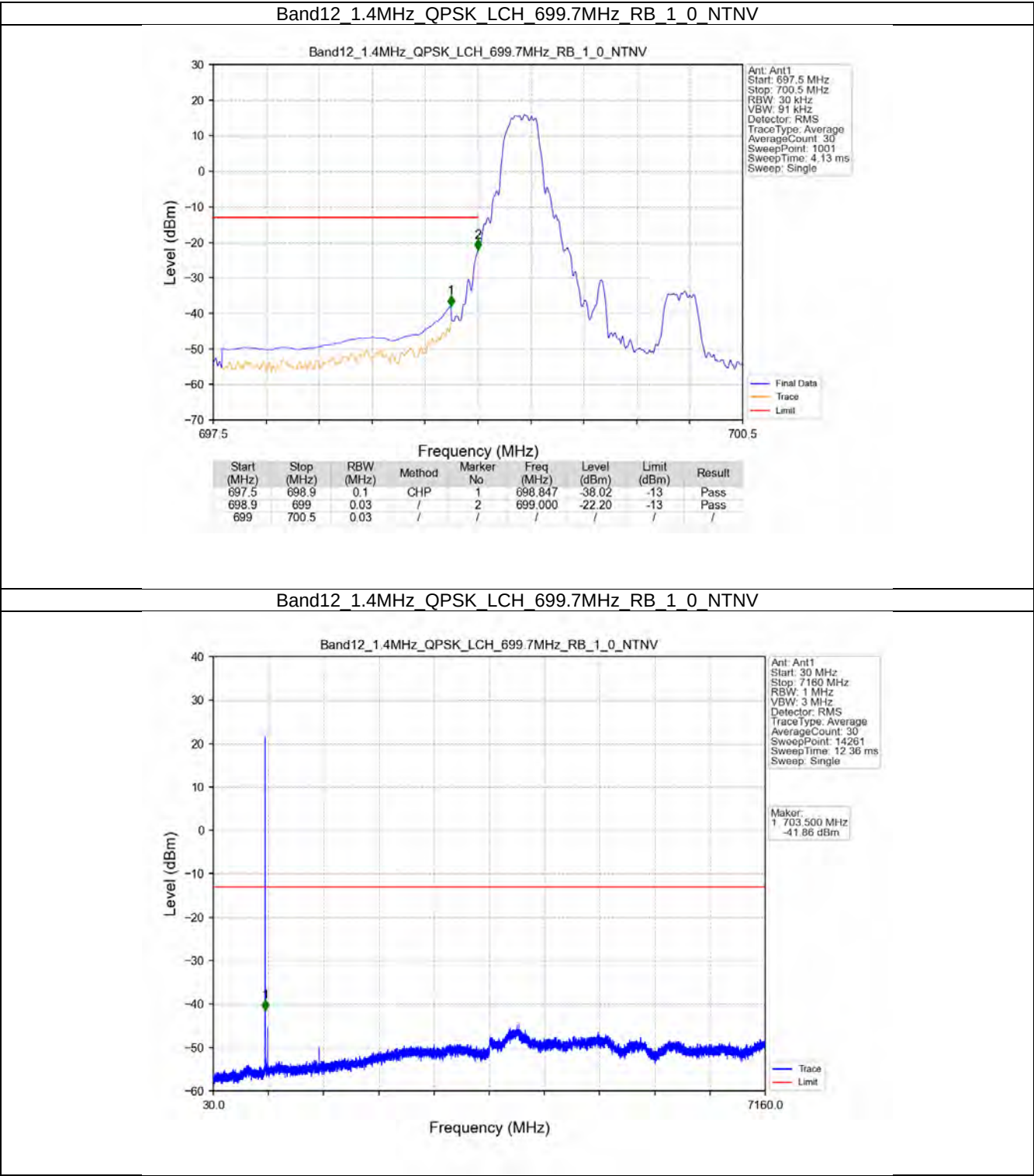
	707.5	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

5.1.4 B12_10MHz

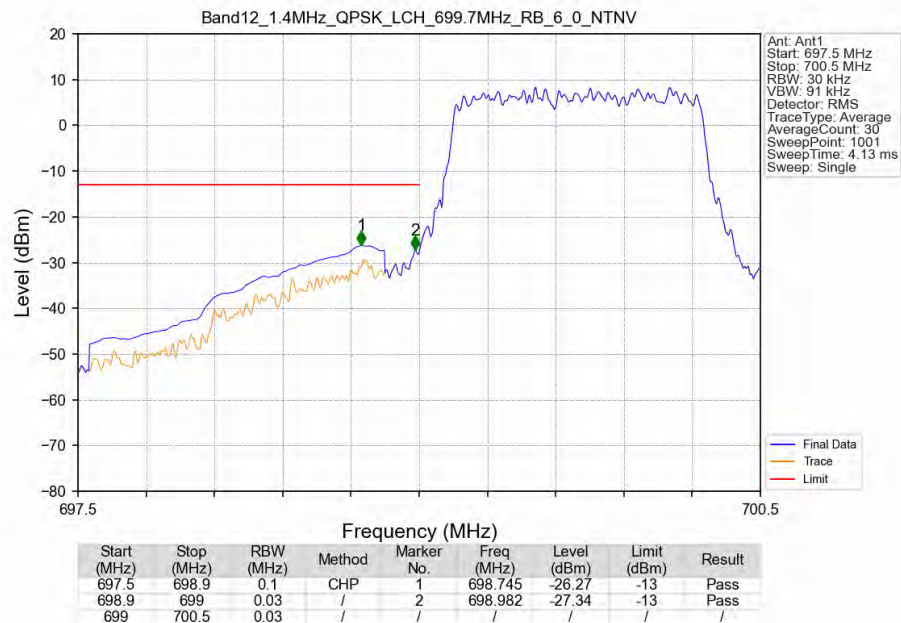
Band: 12 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	704	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	704	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

5.2 Test Graph

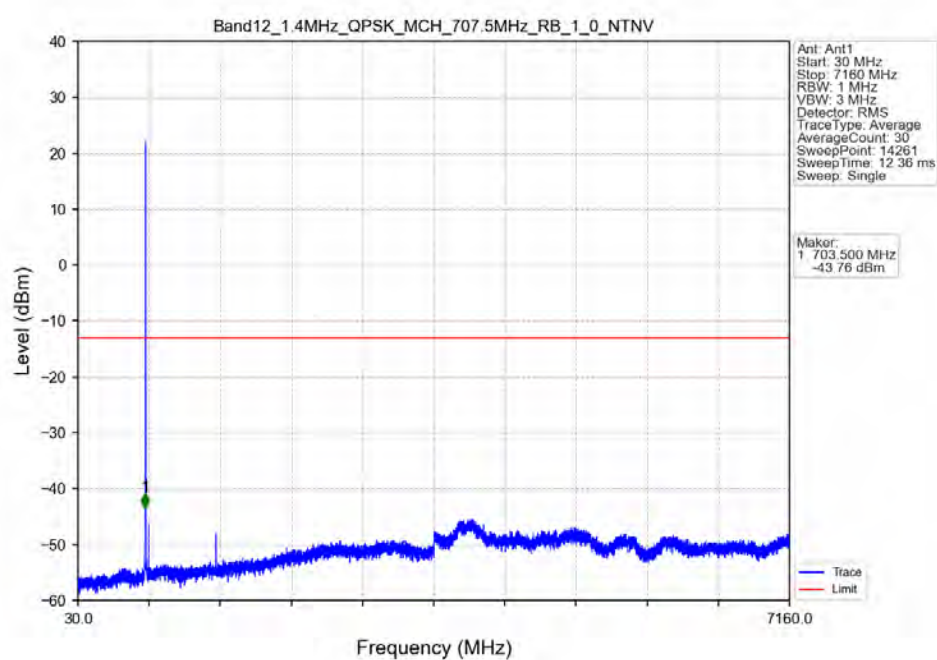
5.2.1 B12_1.4MHz



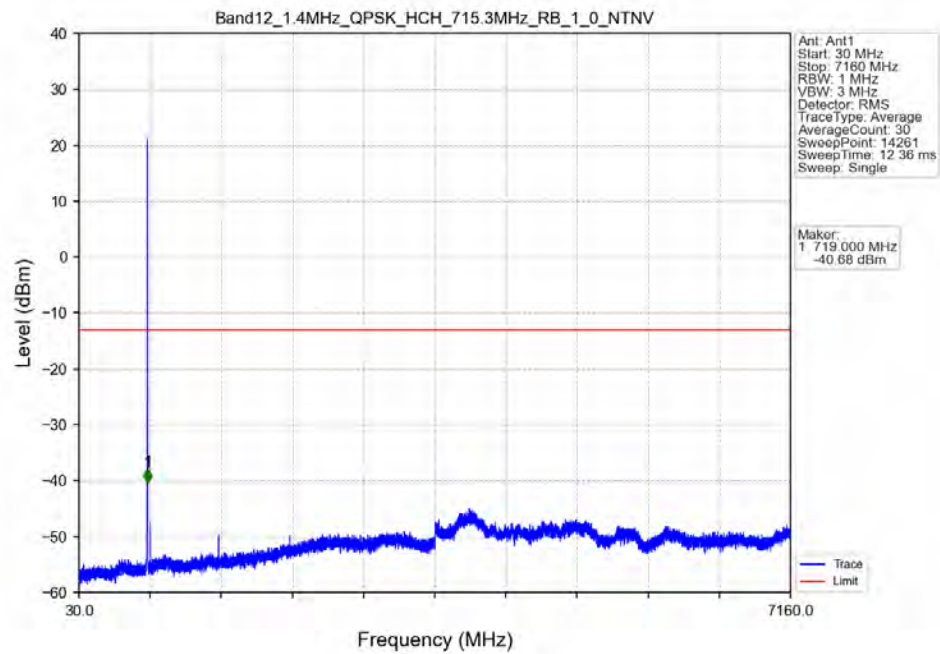
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



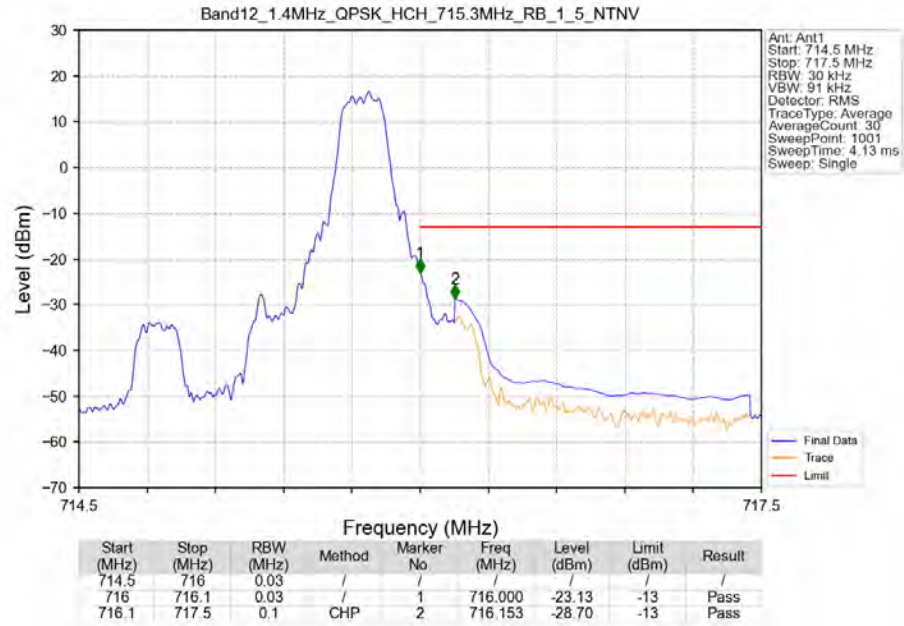
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



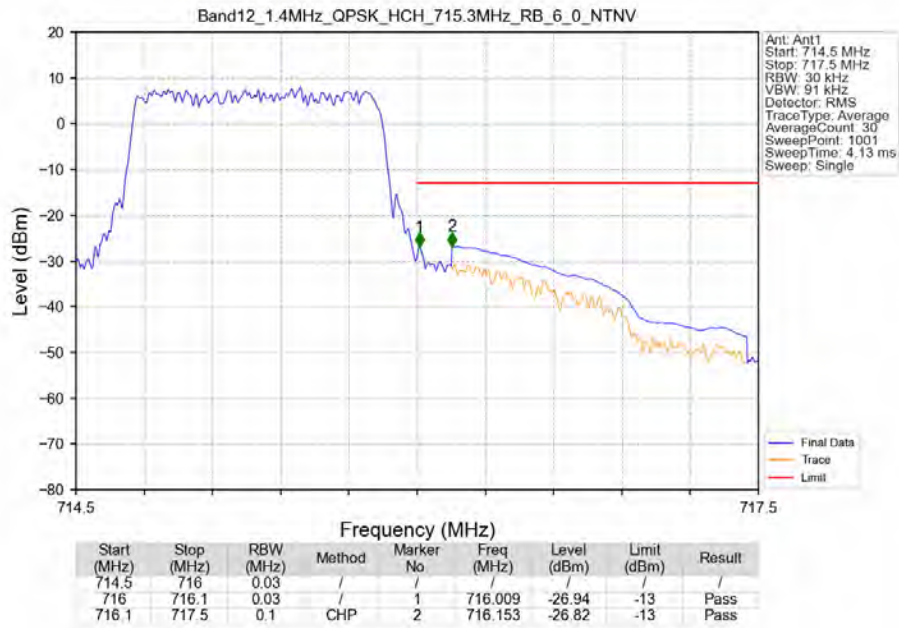
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



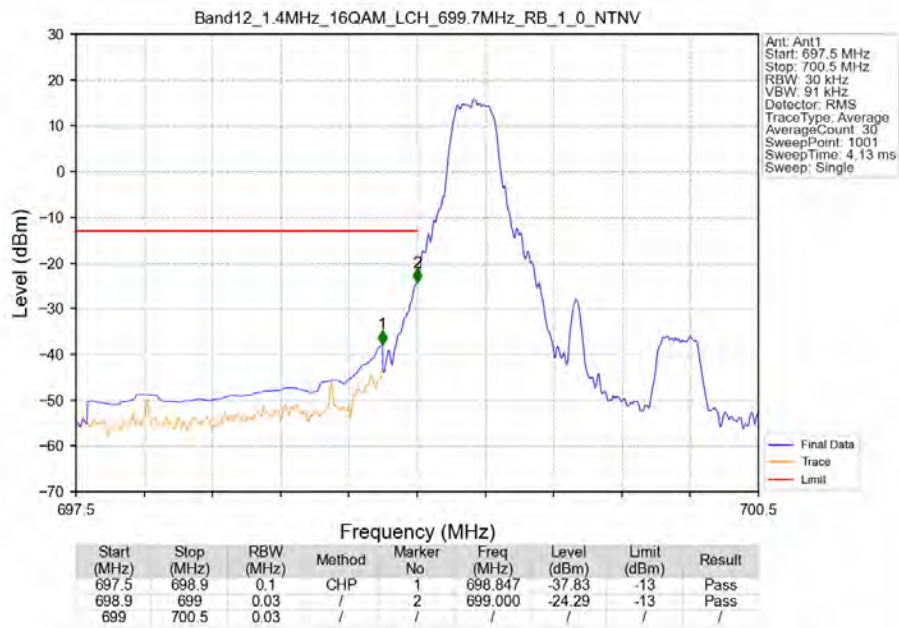
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



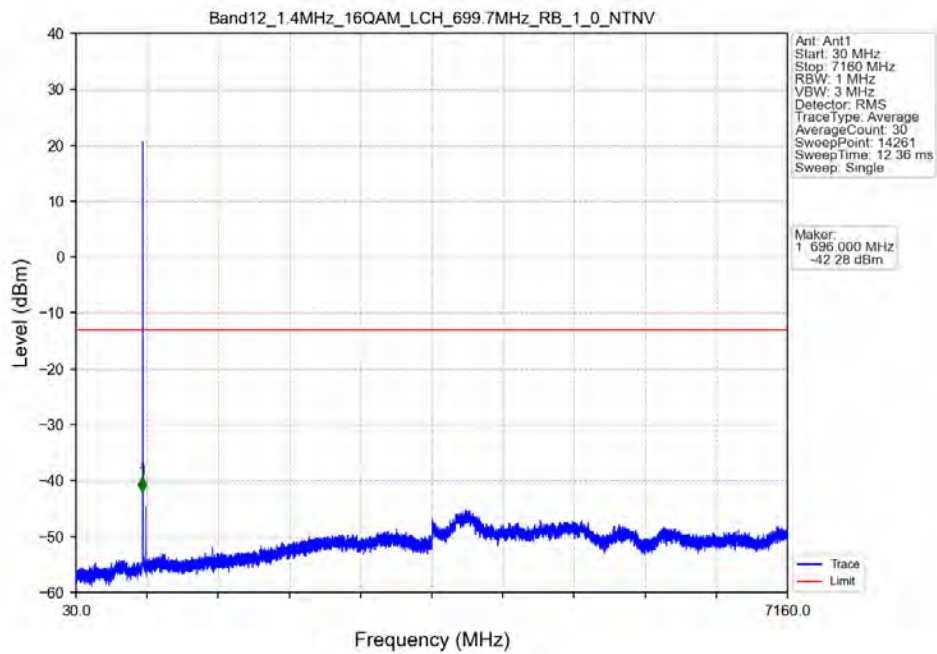
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



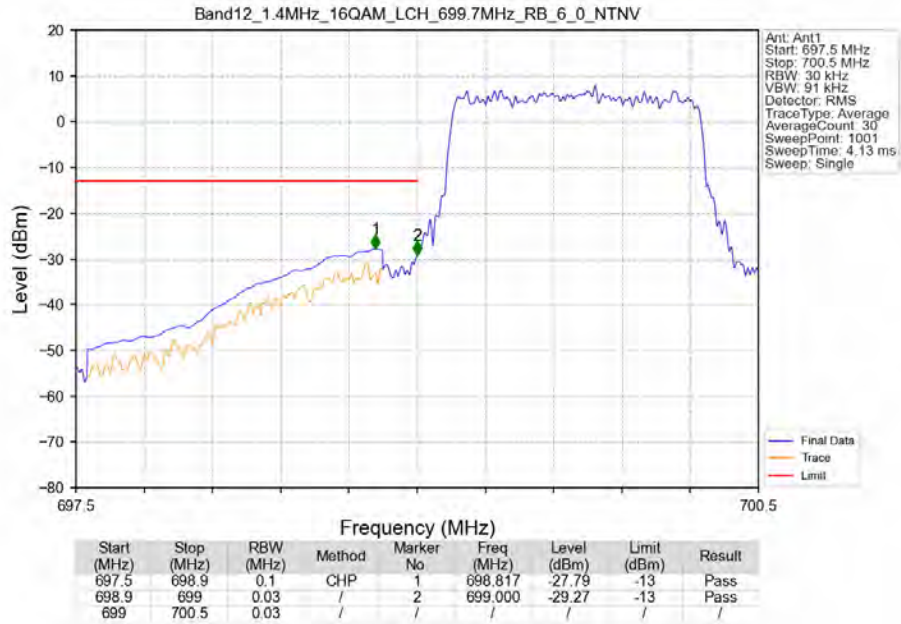
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



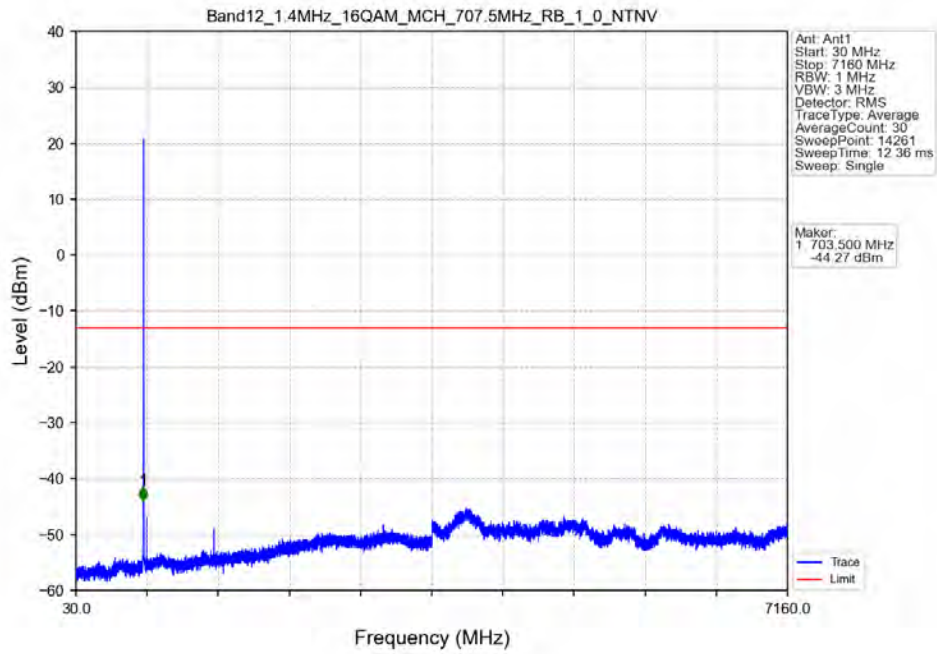
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



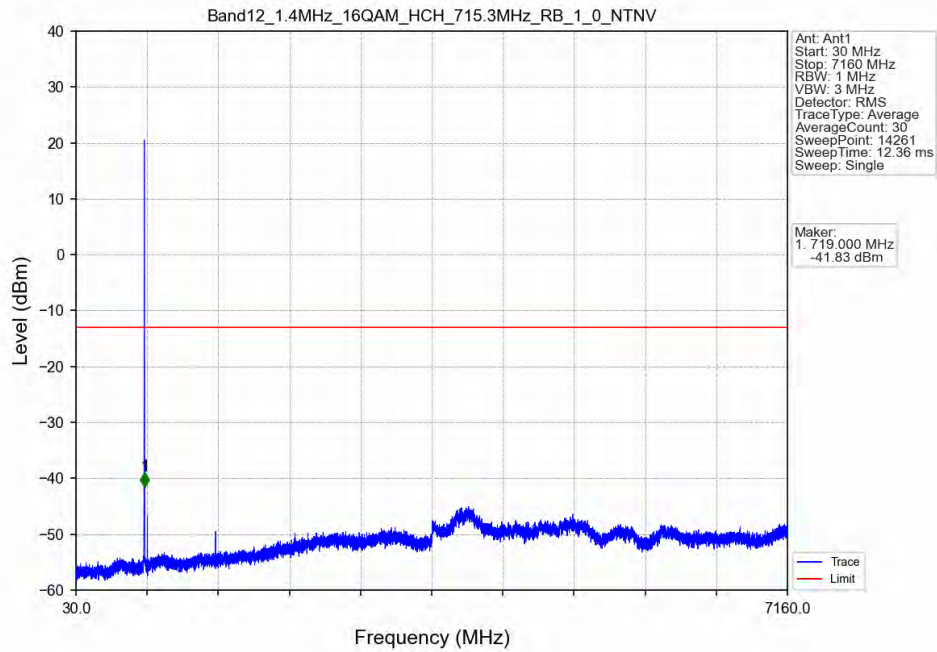
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



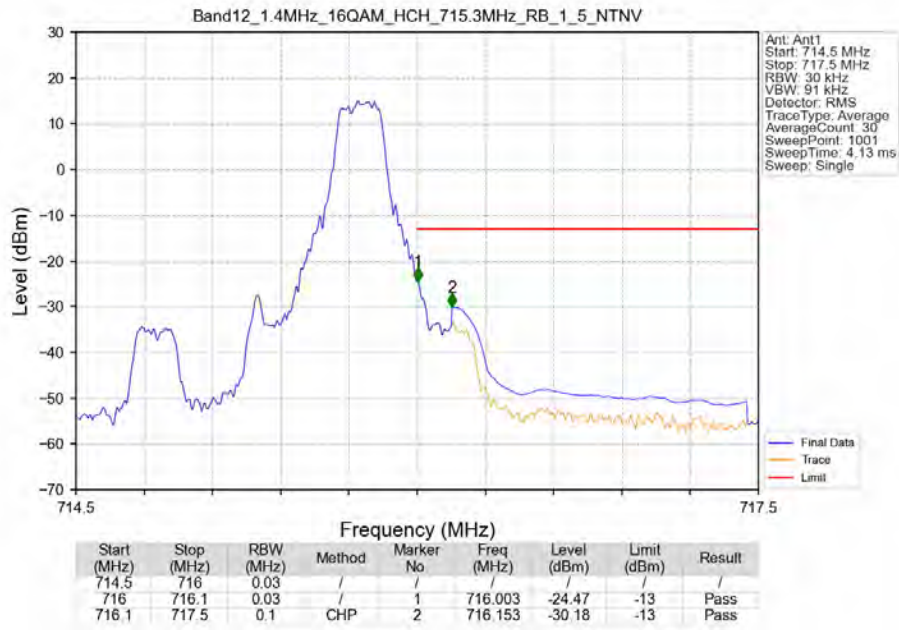
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



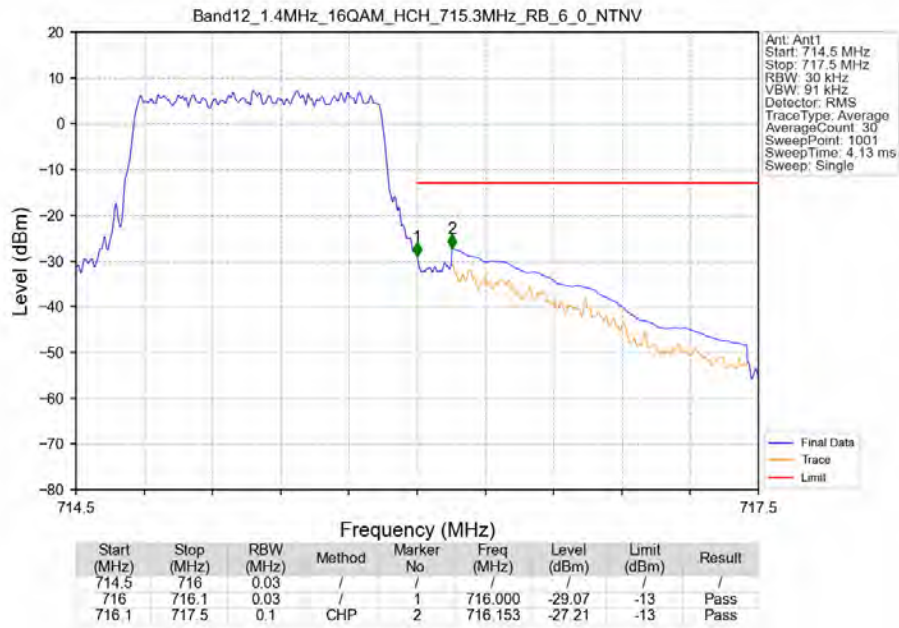
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



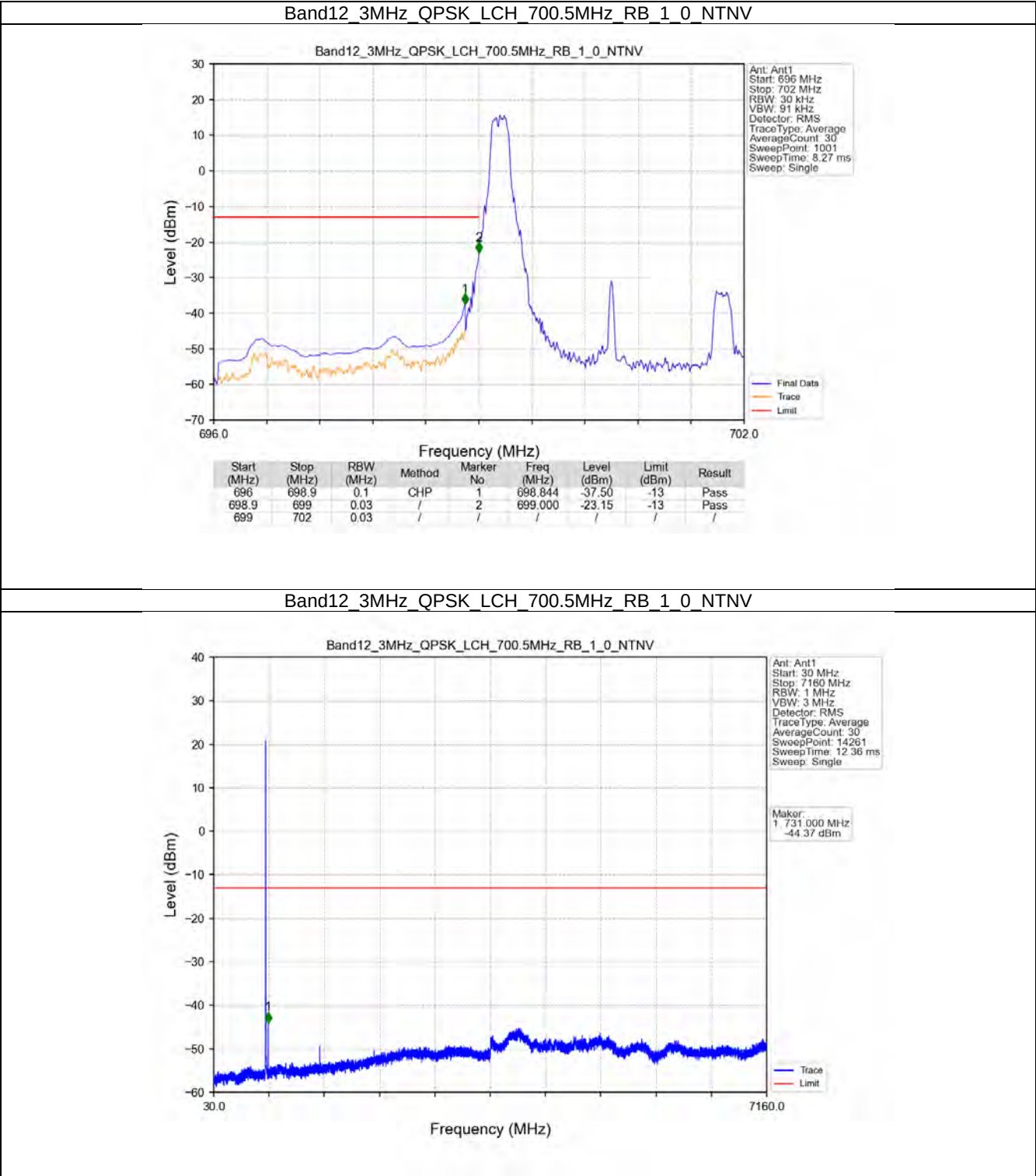
Band12 1.4MHz 16QAM HCH 715.3MHz RB_1_5 NTV



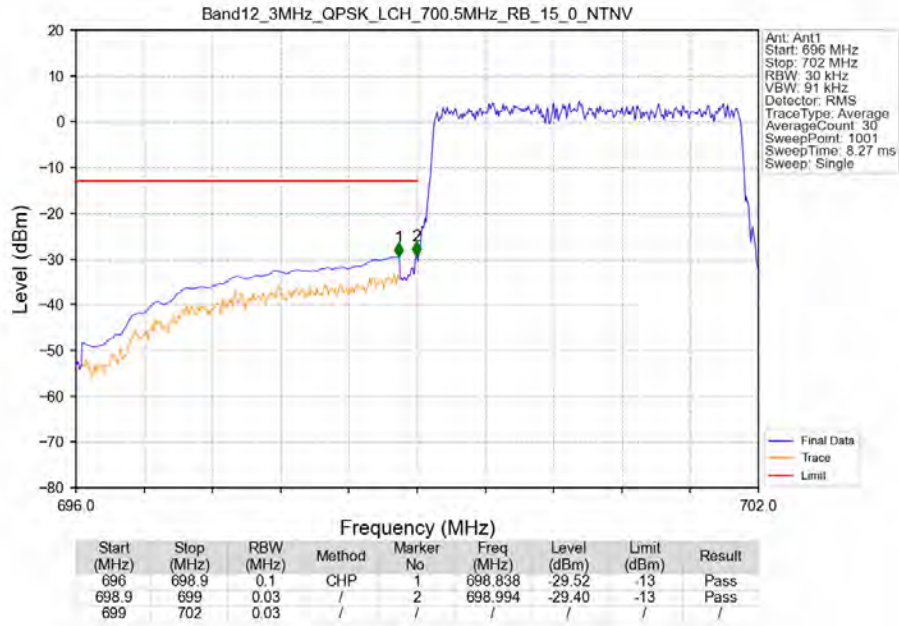
Band12 1.4MHz 16QAM HCH 715.3MHz RB_6_0 NTV



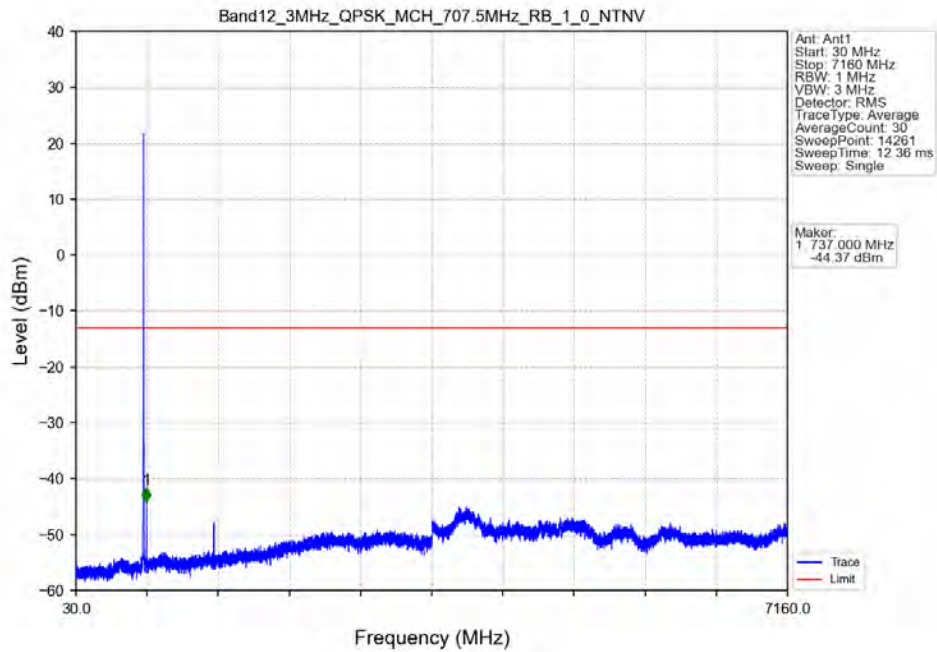
5.2.2 B12_3MHz



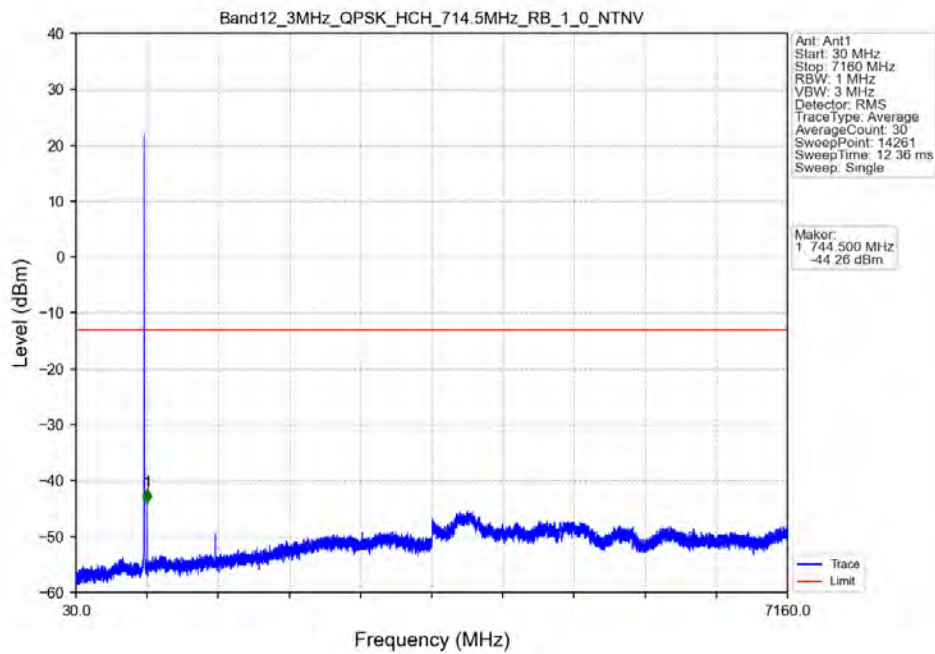
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



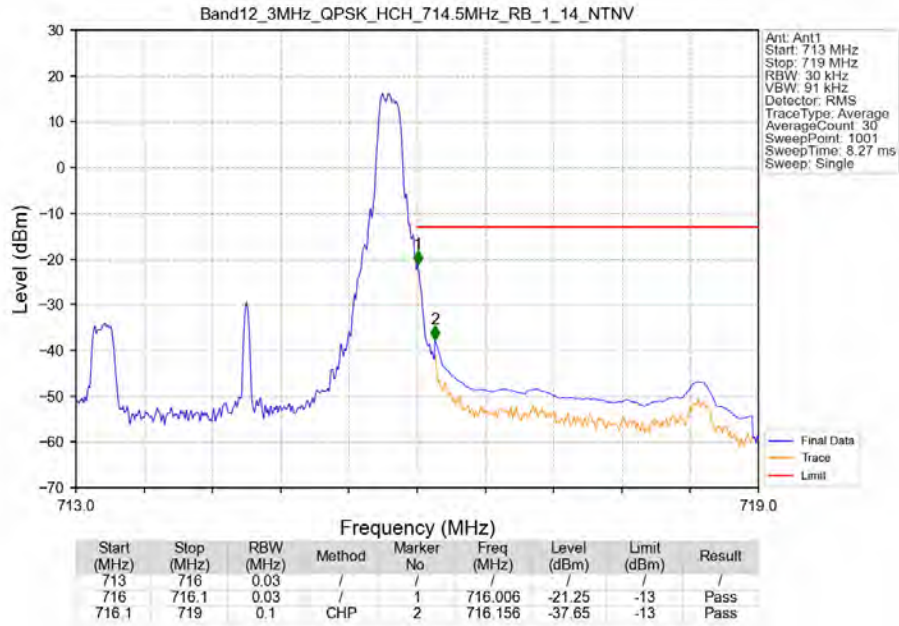
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



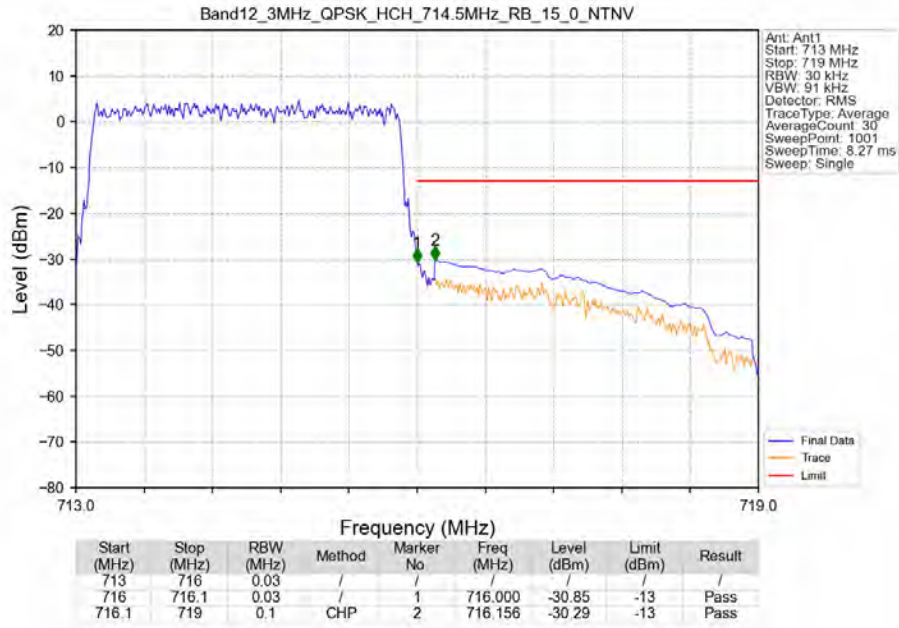
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



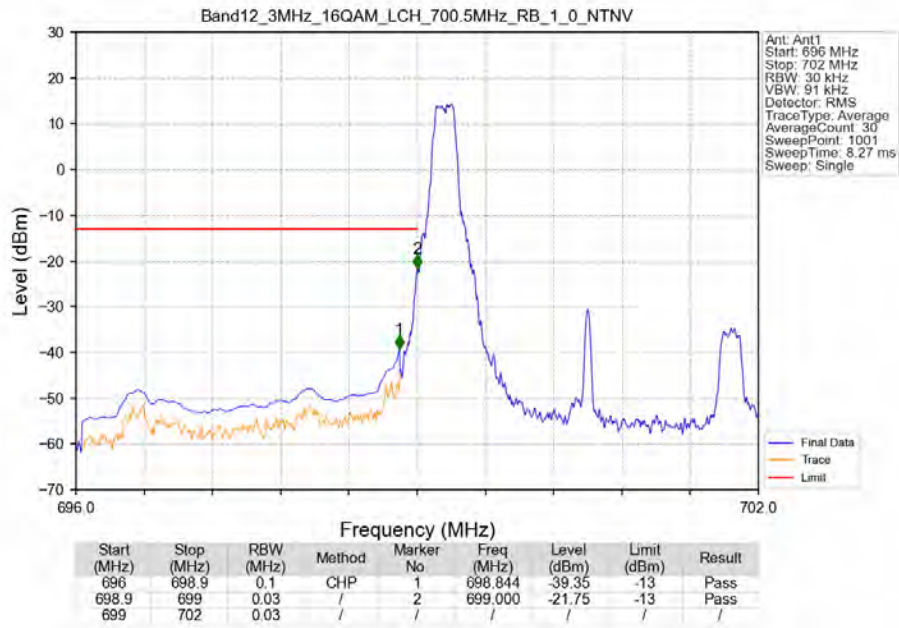
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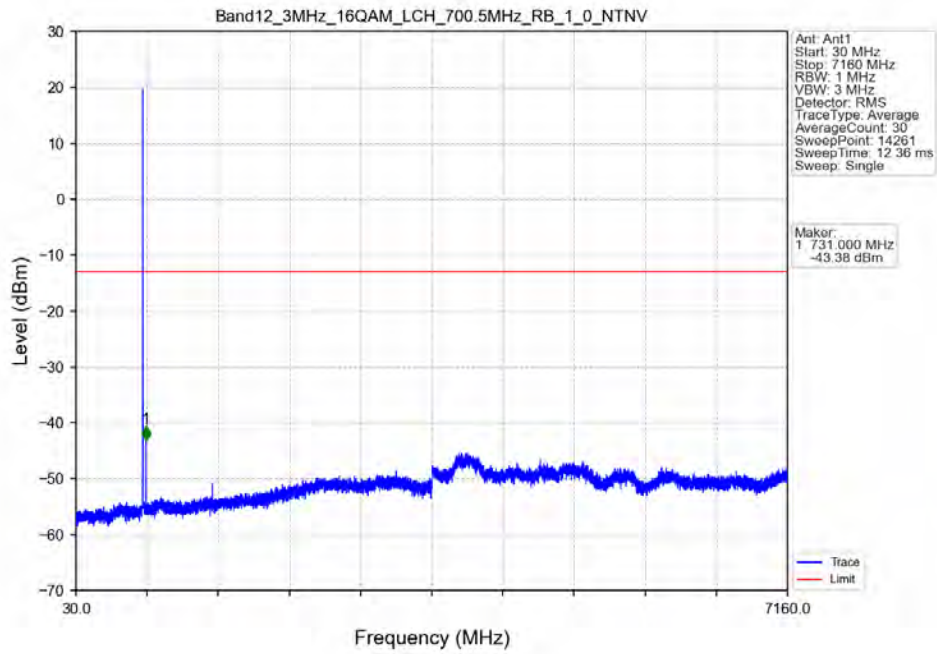
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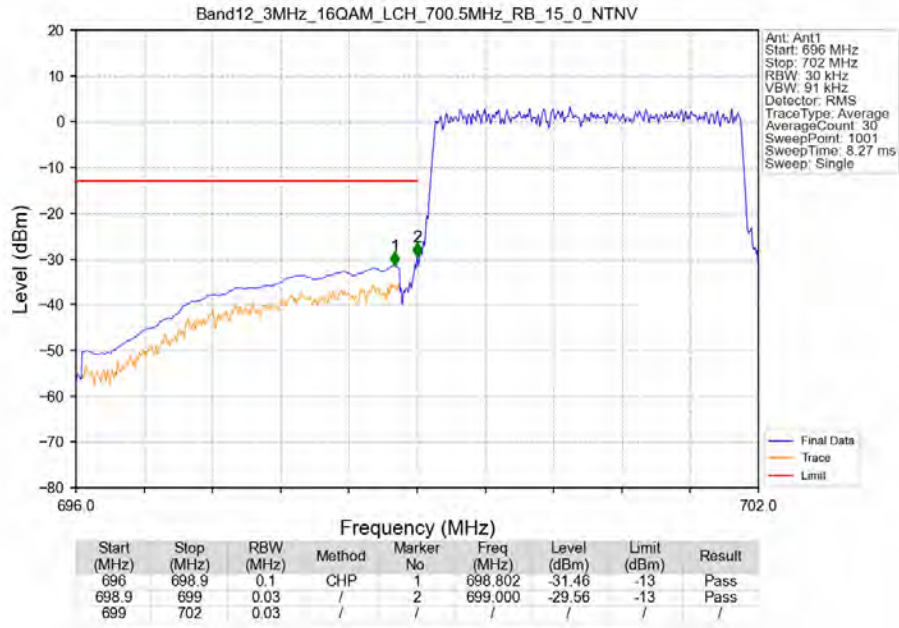
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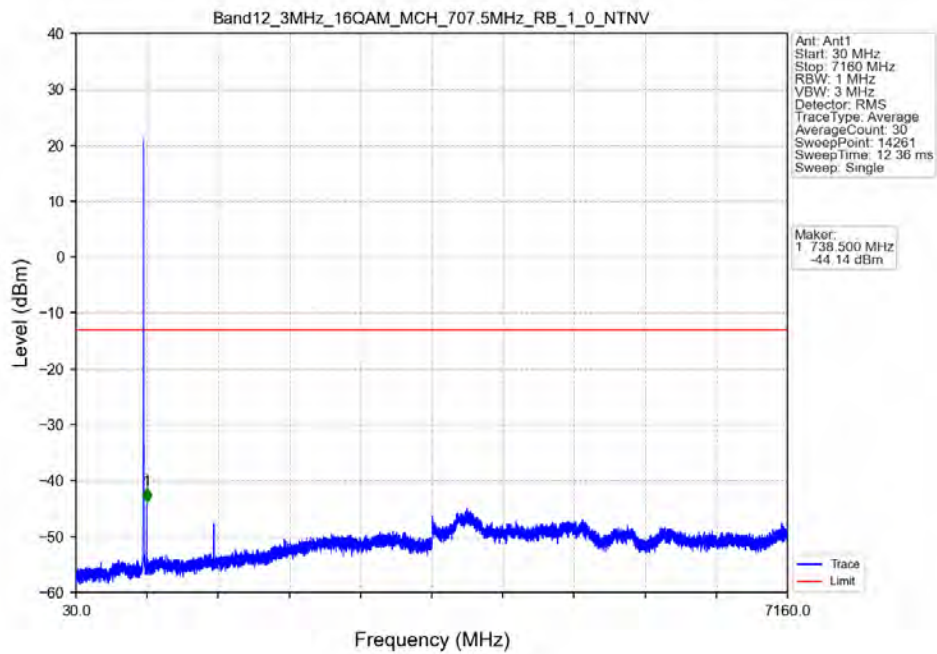
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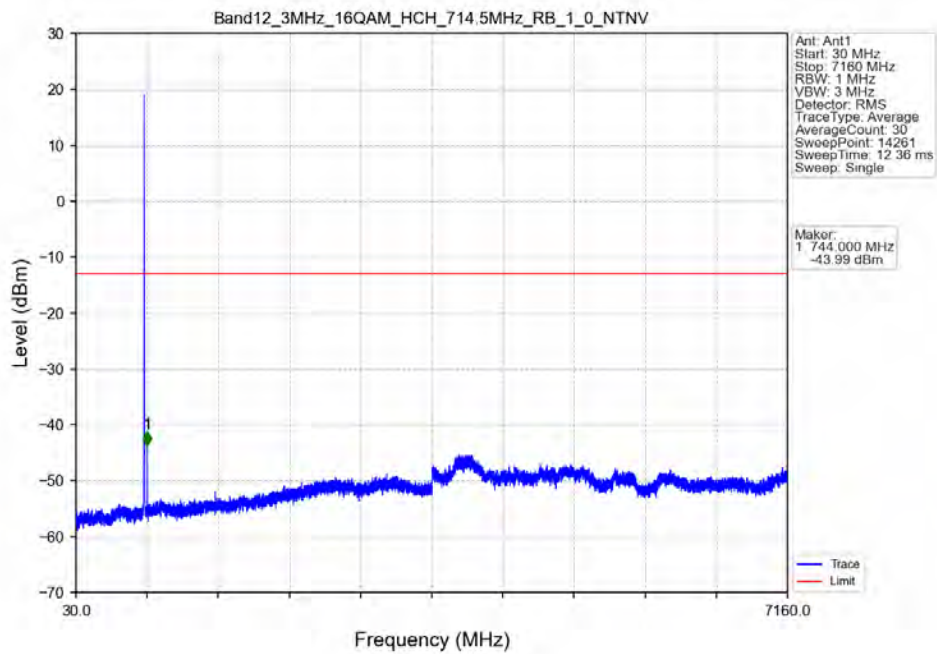
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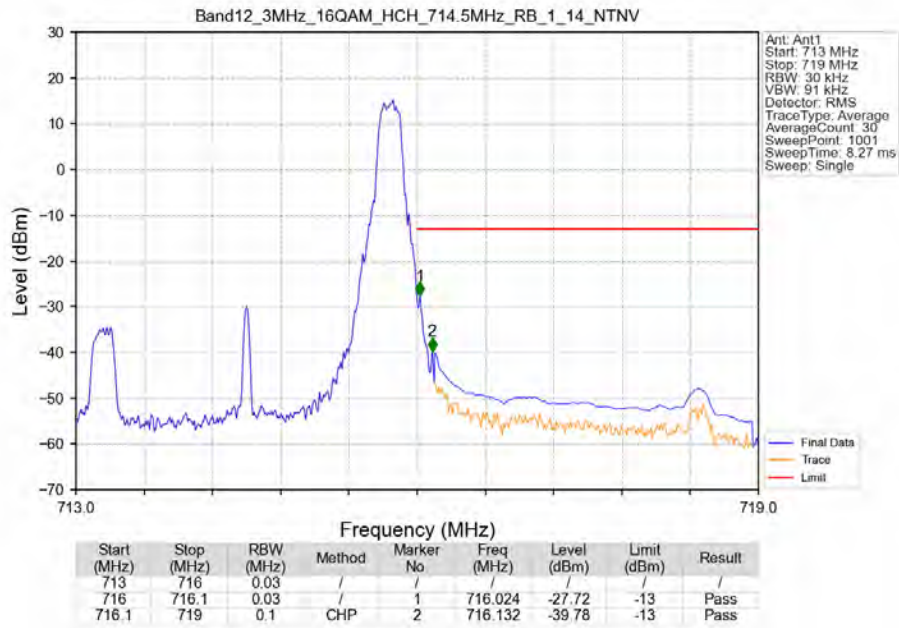
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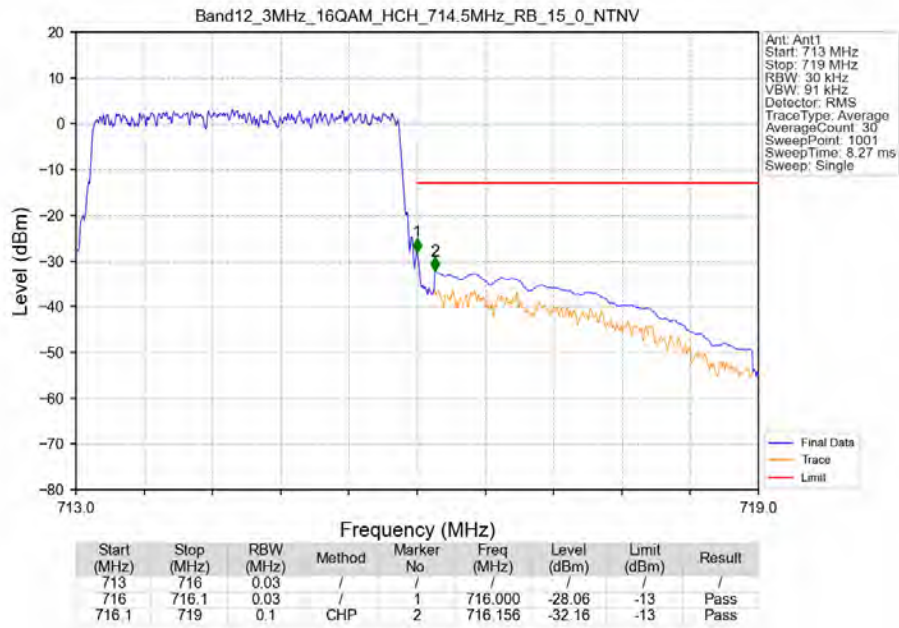
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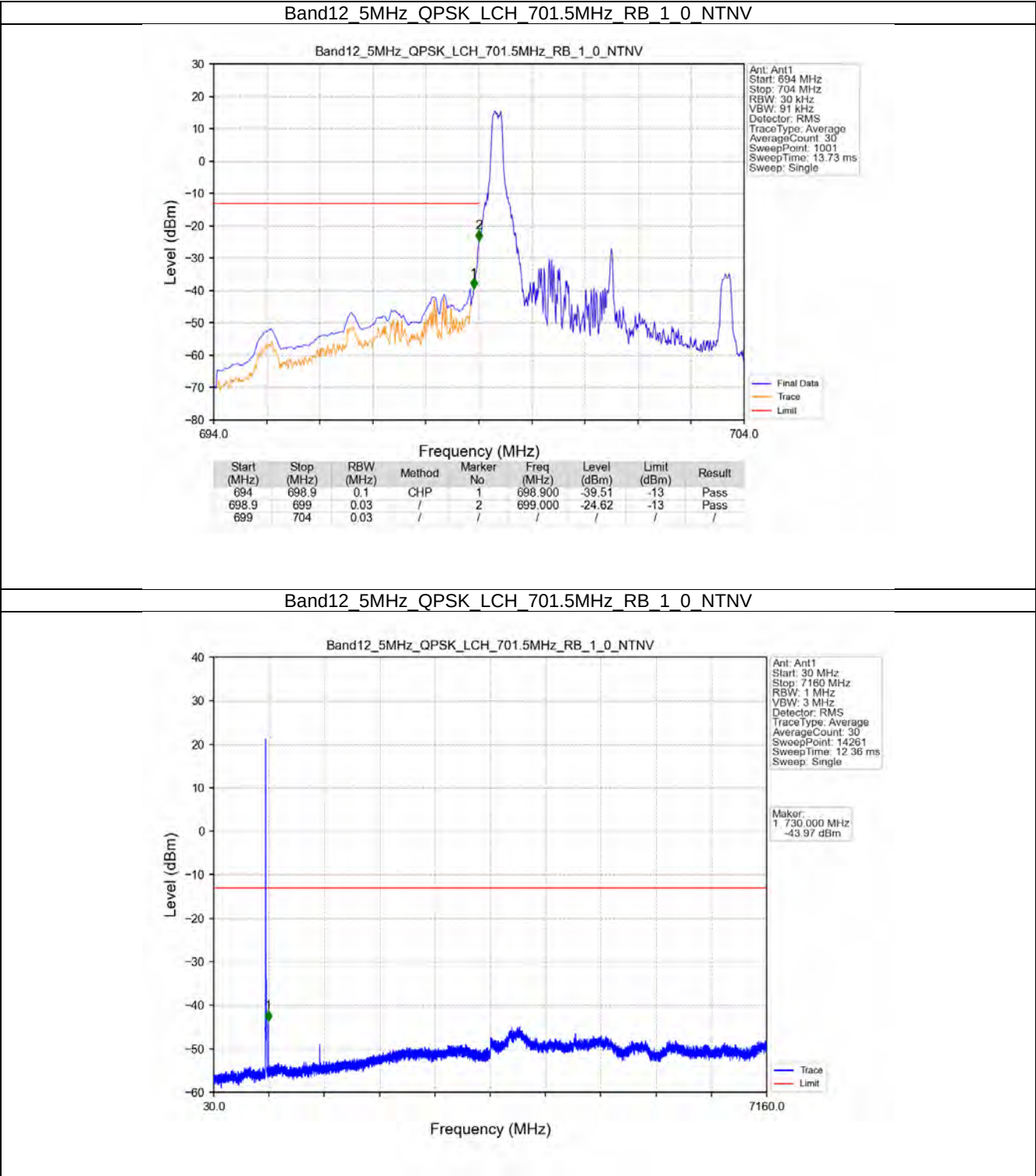
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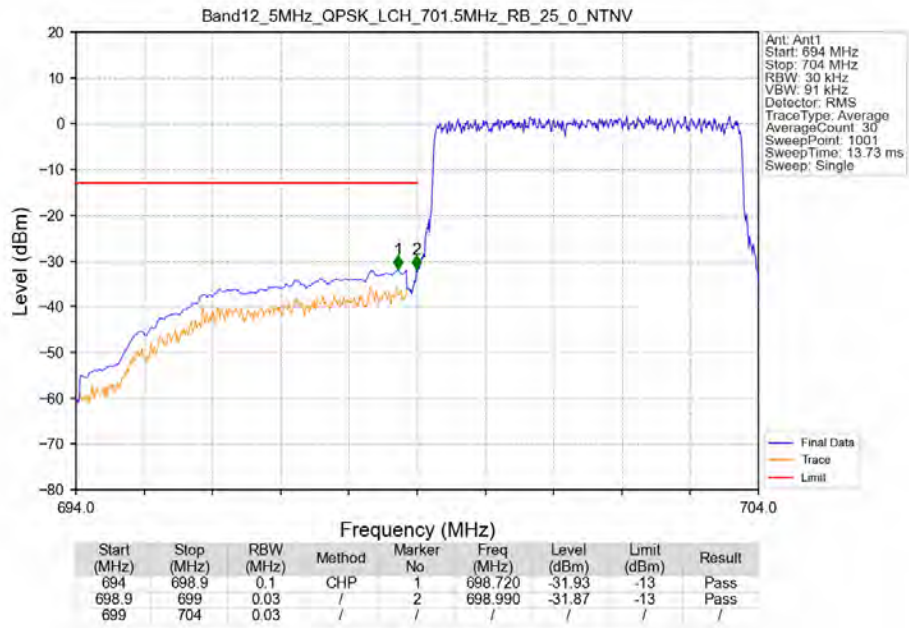
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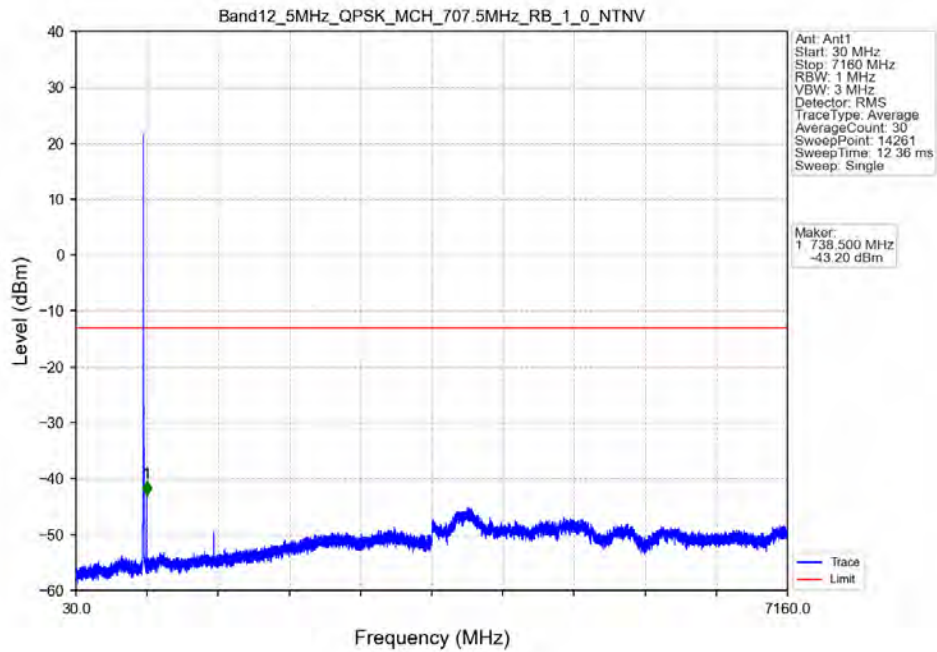
5.2.3 B12_5MHz



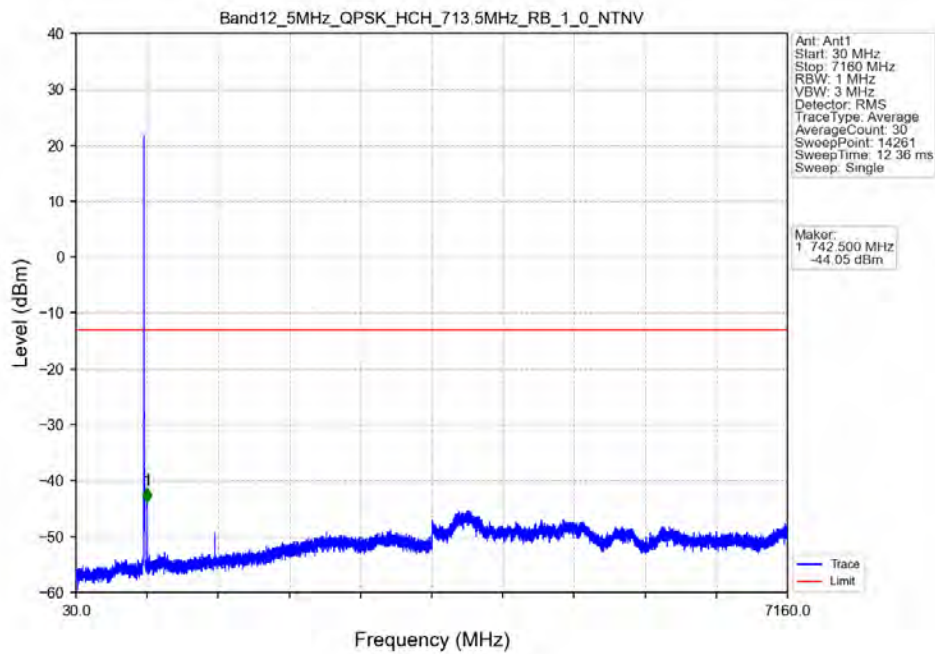
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



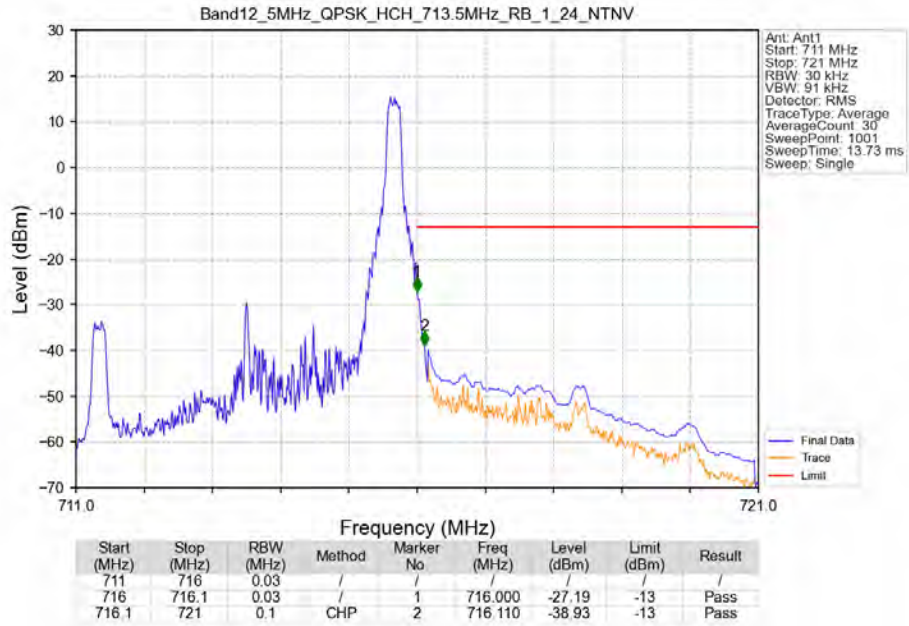
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



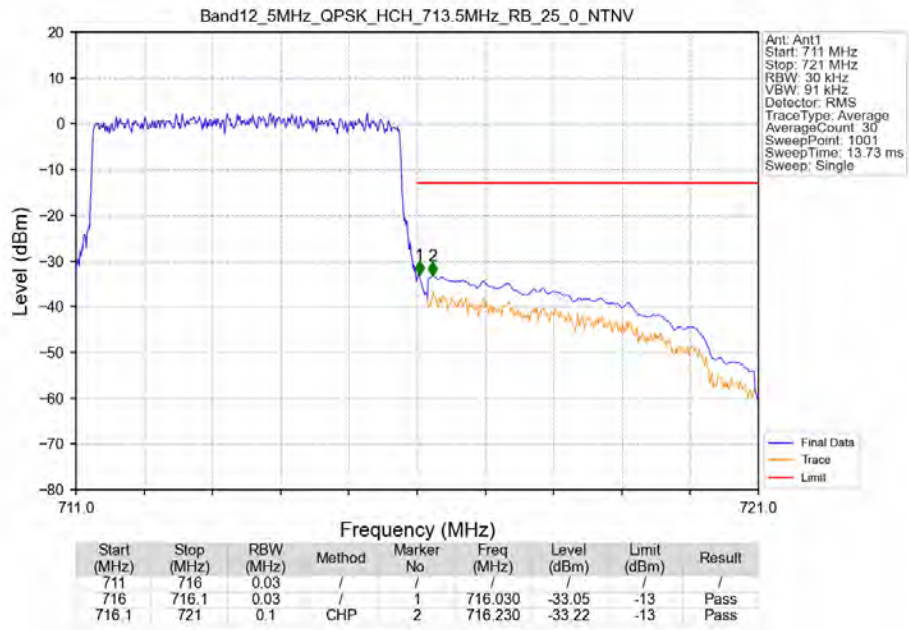
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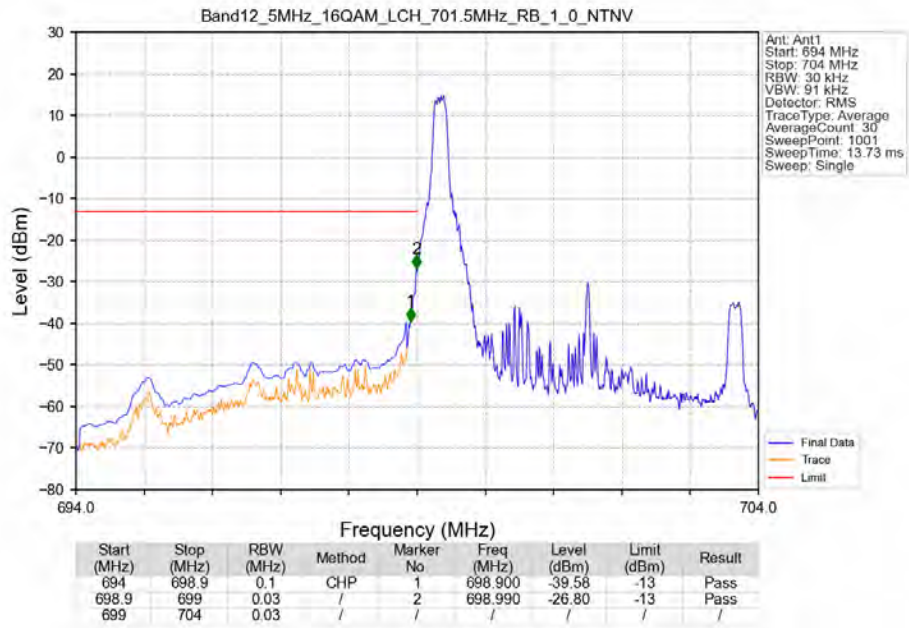
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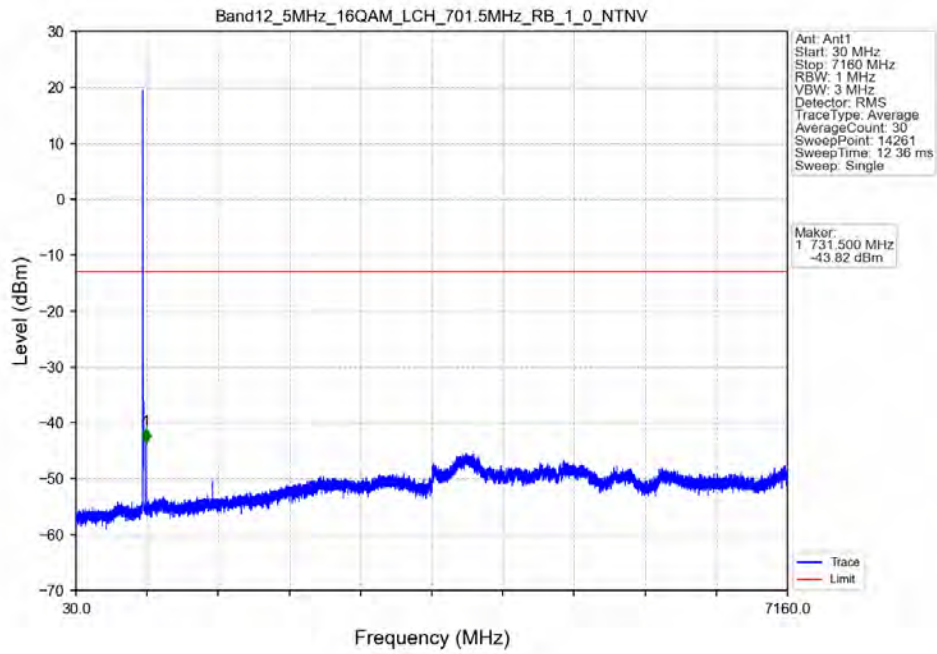
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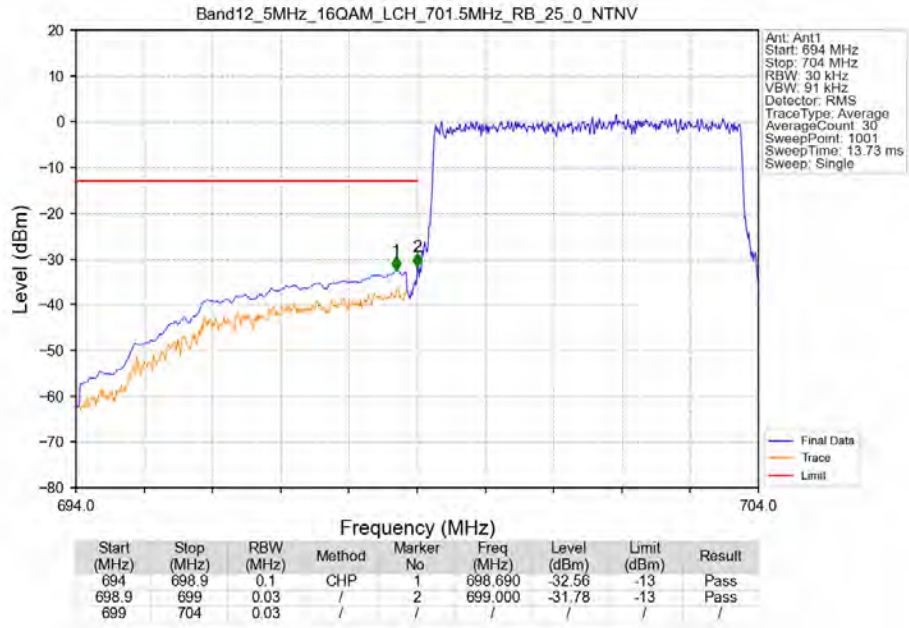
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



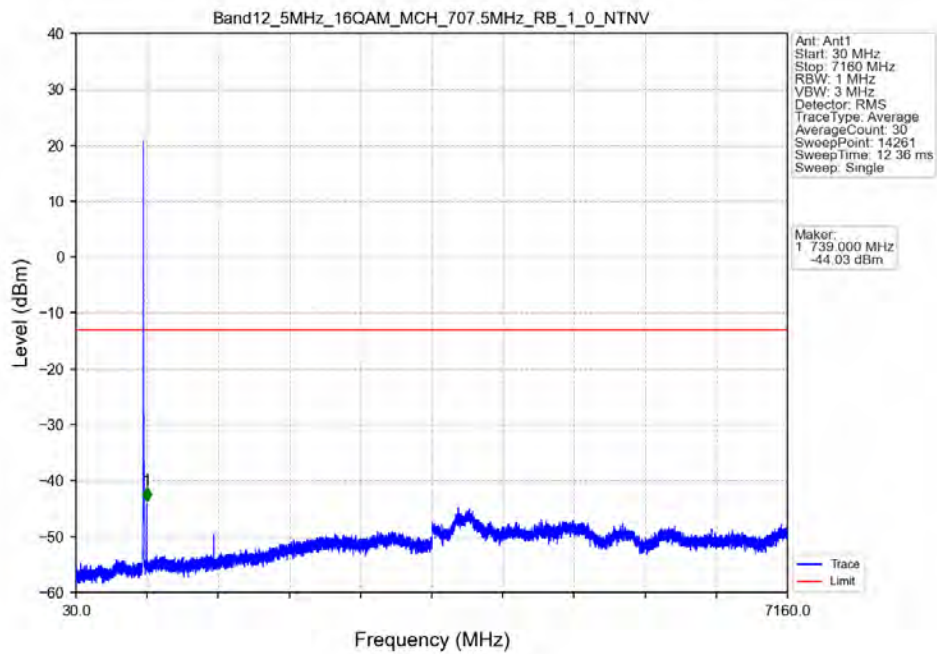
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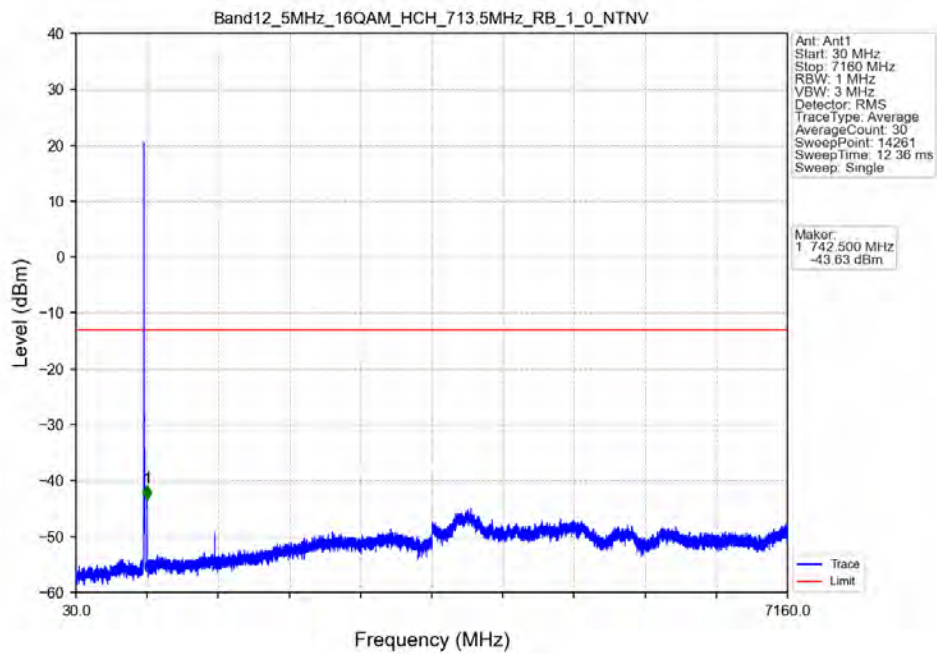
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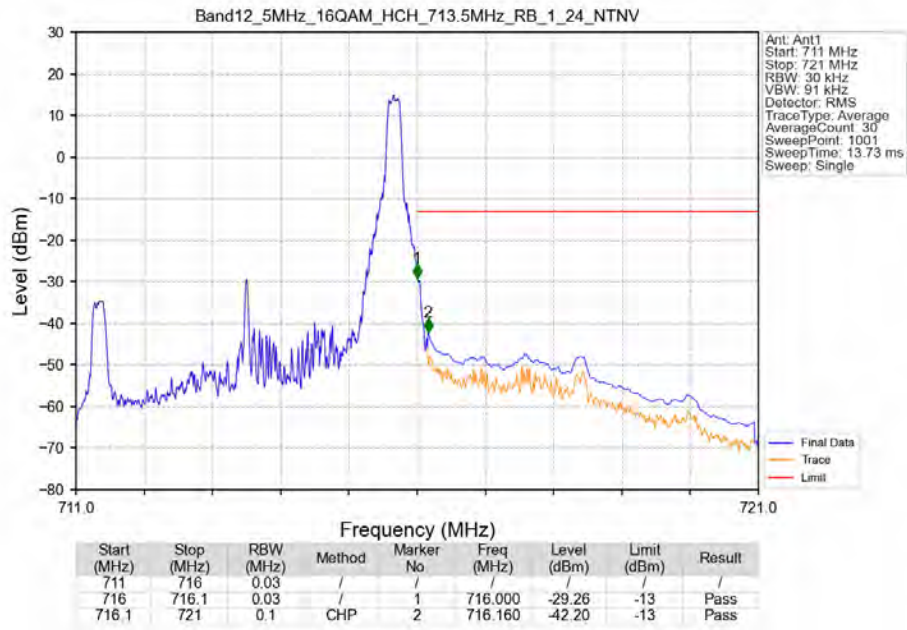
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



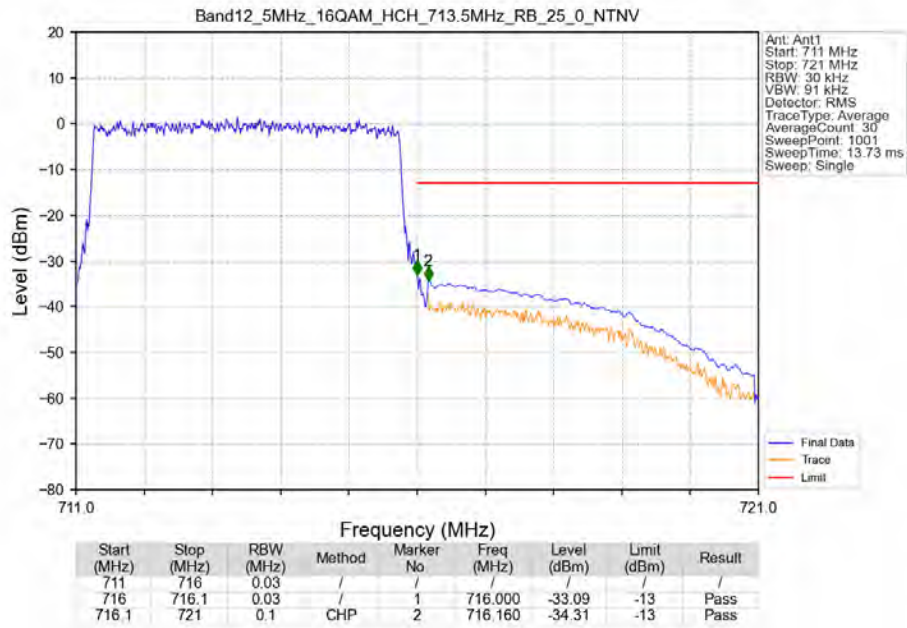
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV

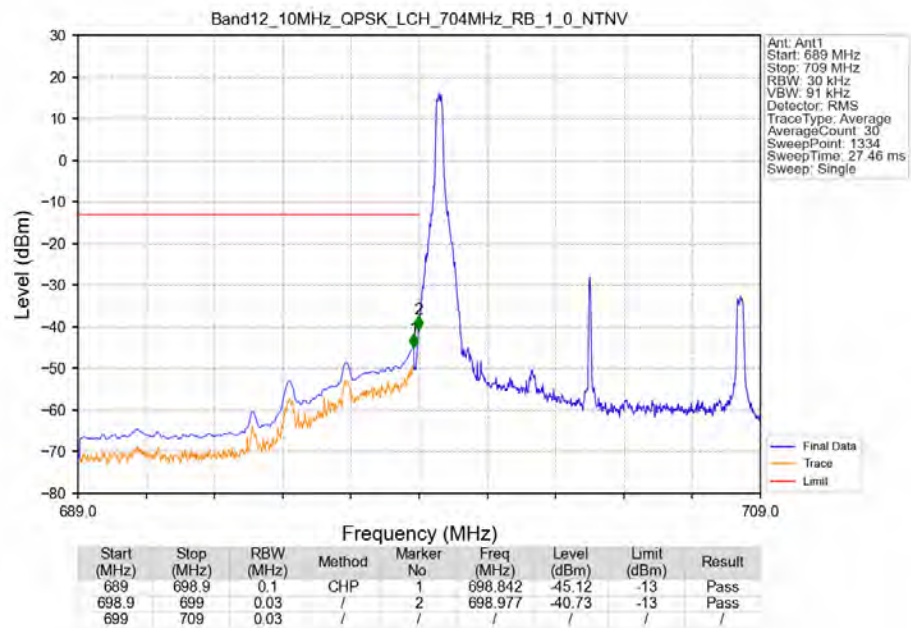


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

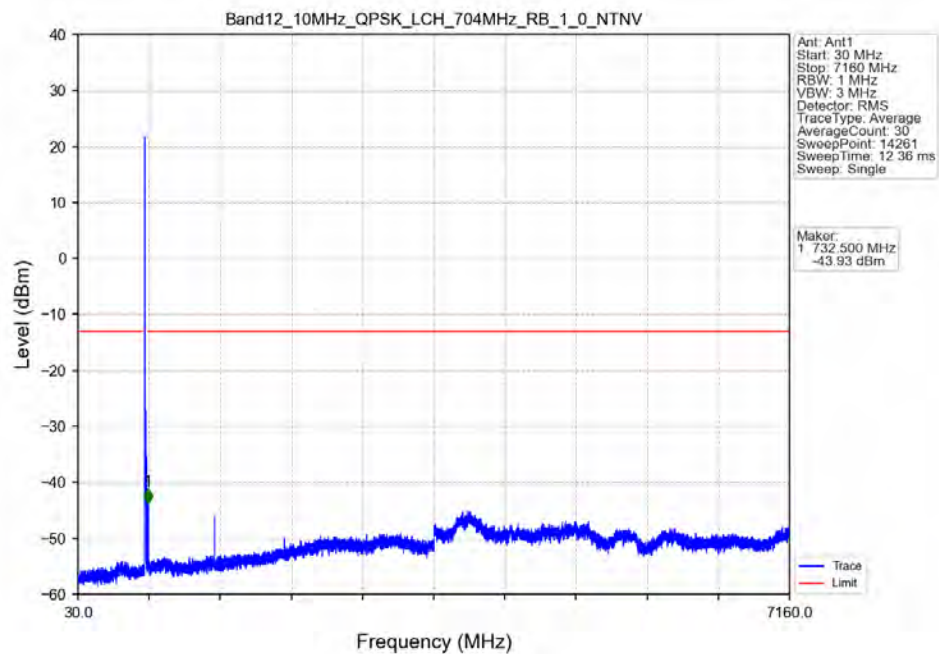


5.2.4 B12_10MHz

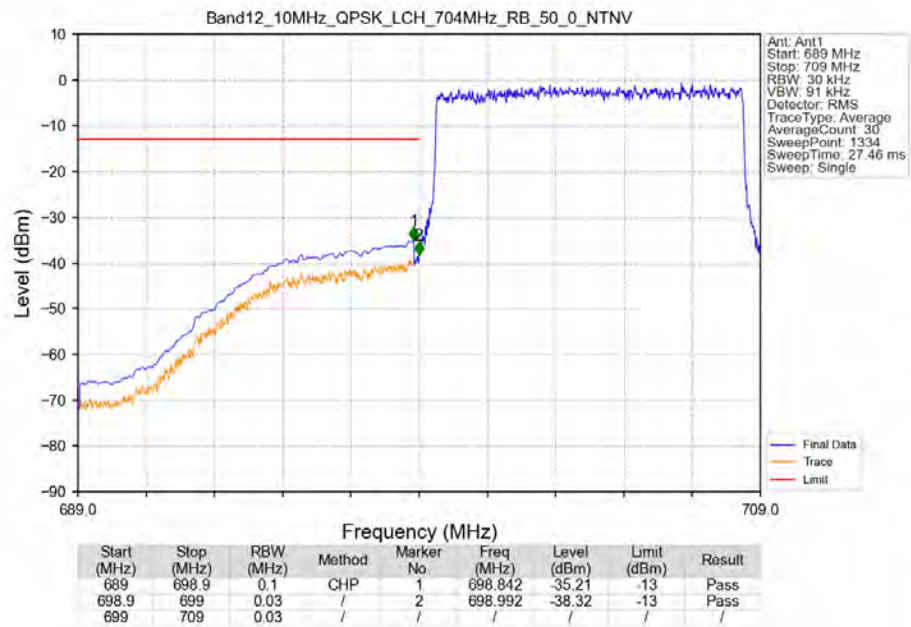
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



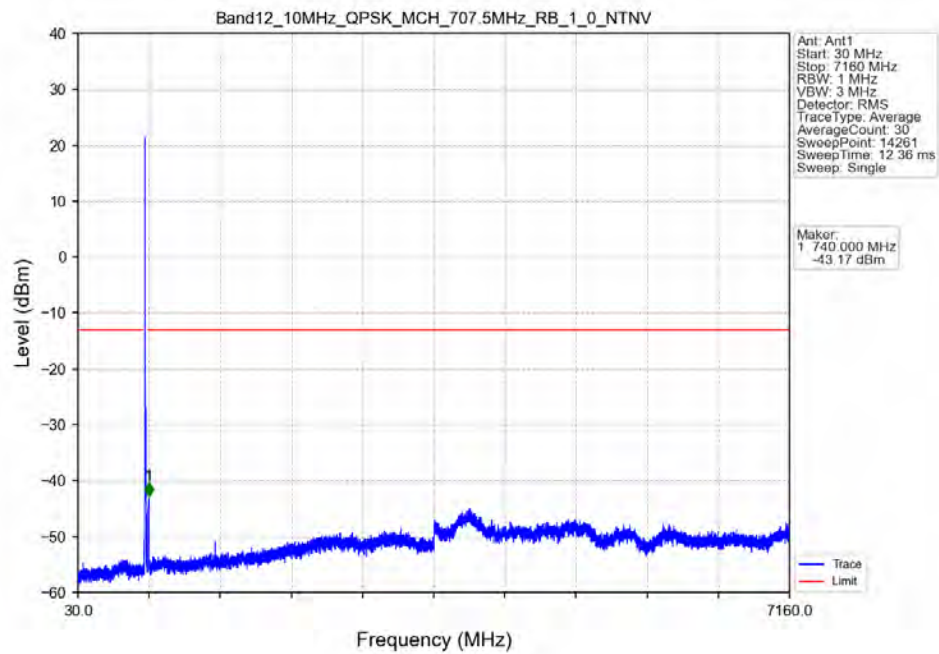
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



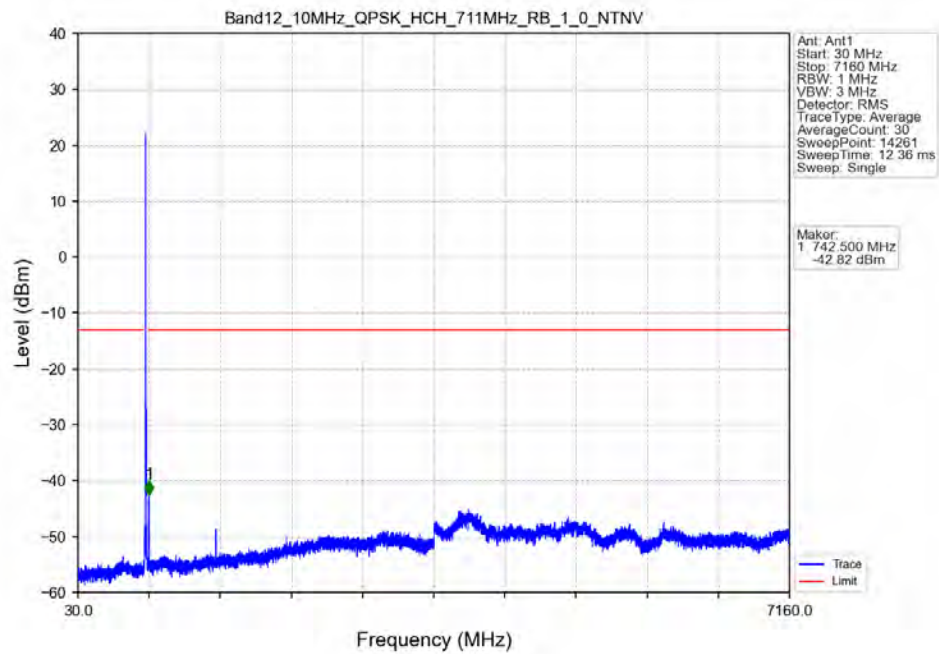
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



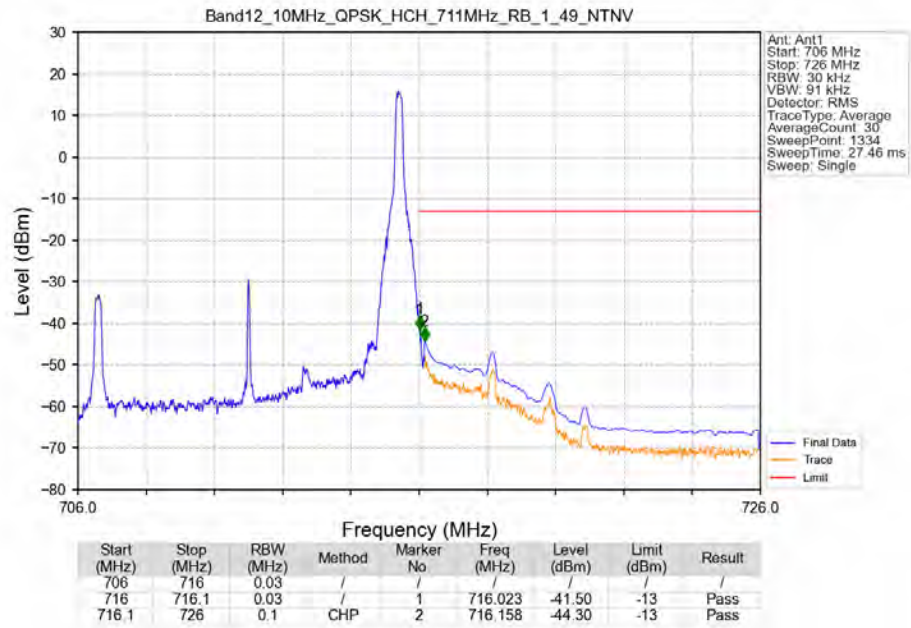
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



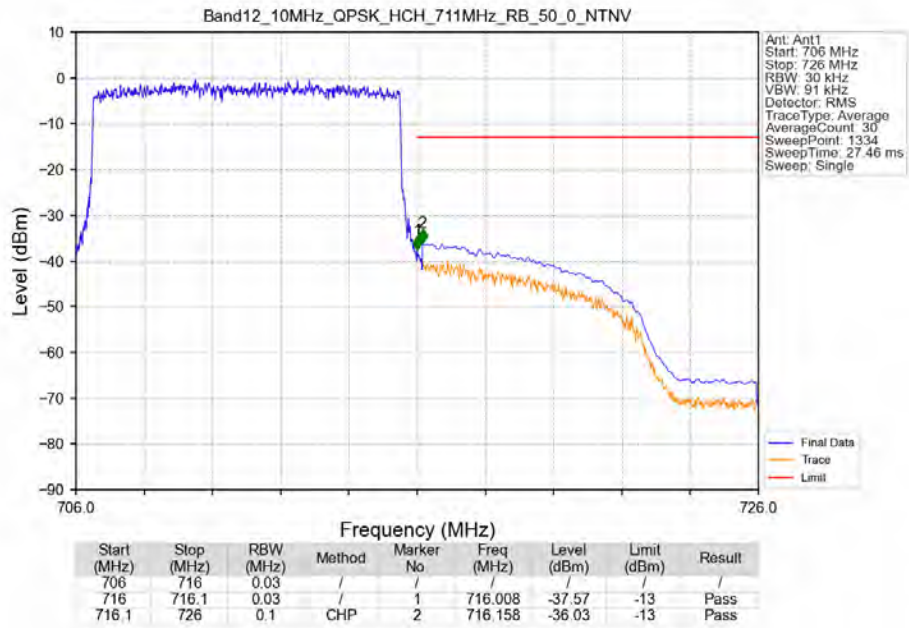
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



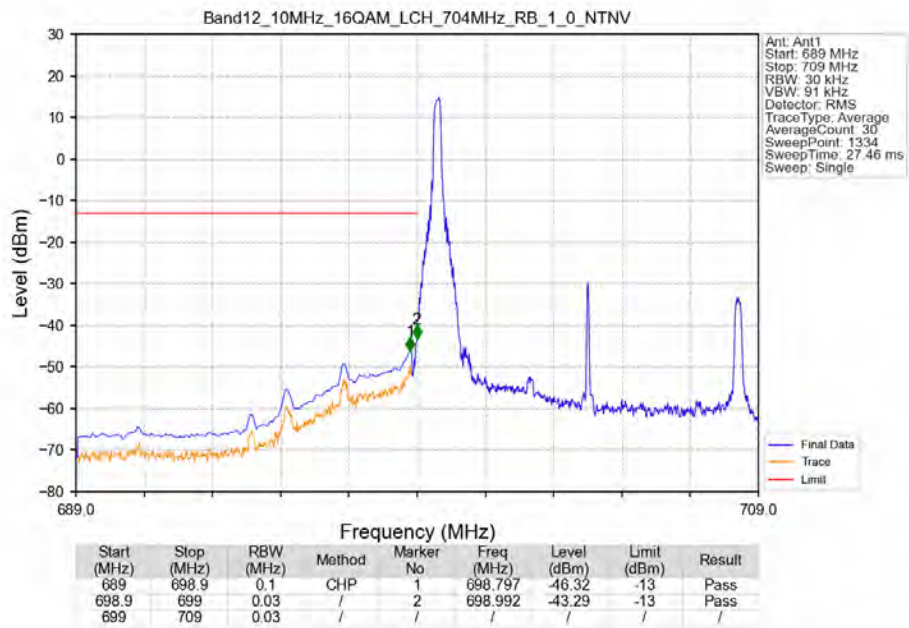
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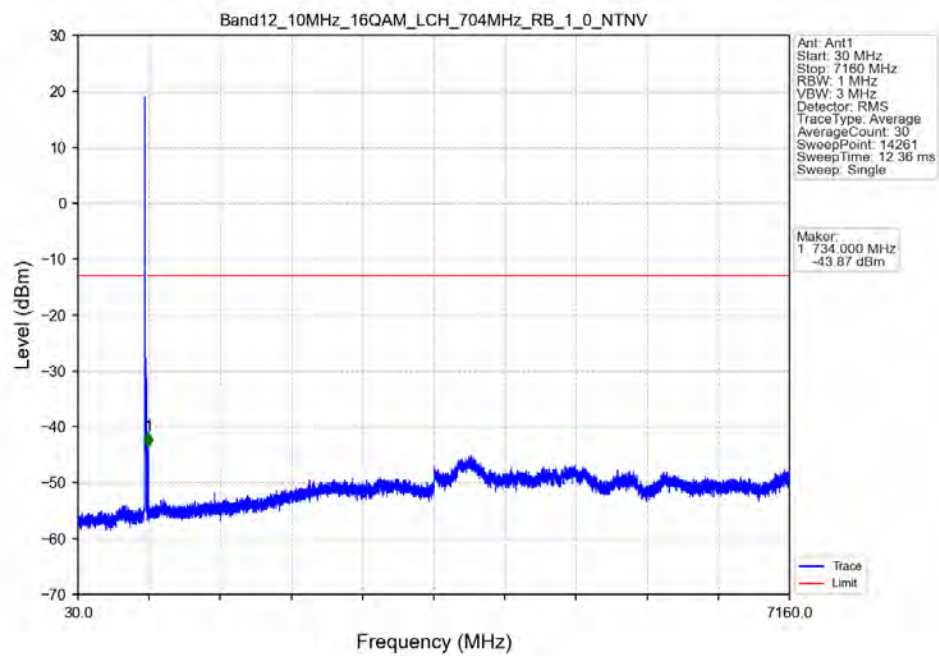
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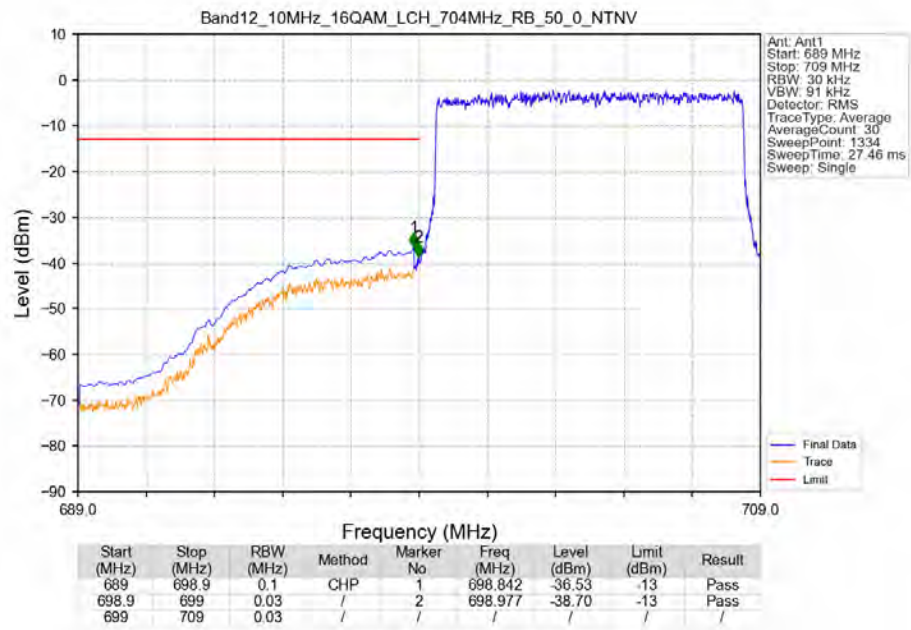
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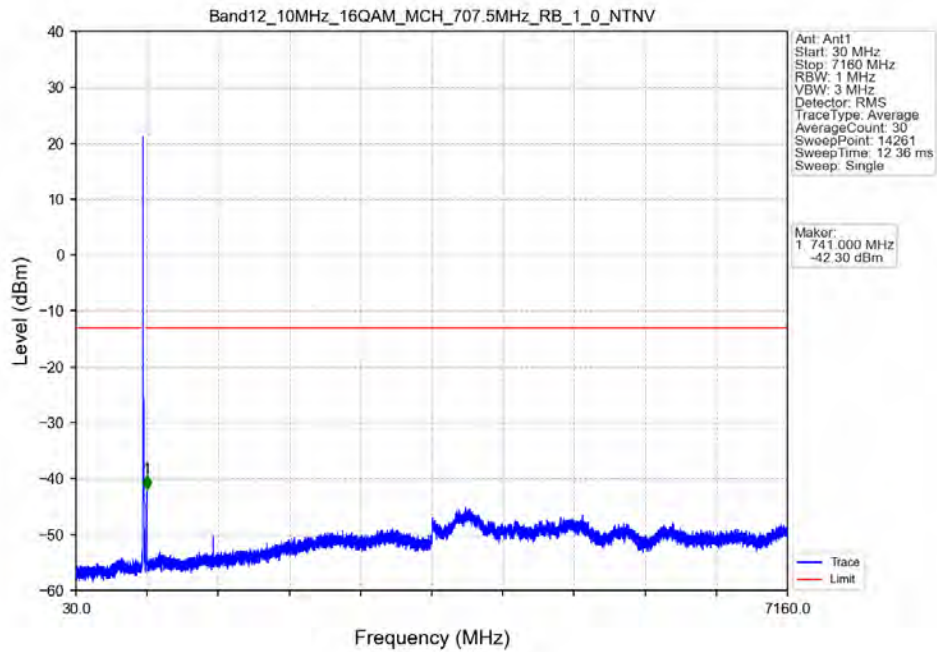
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



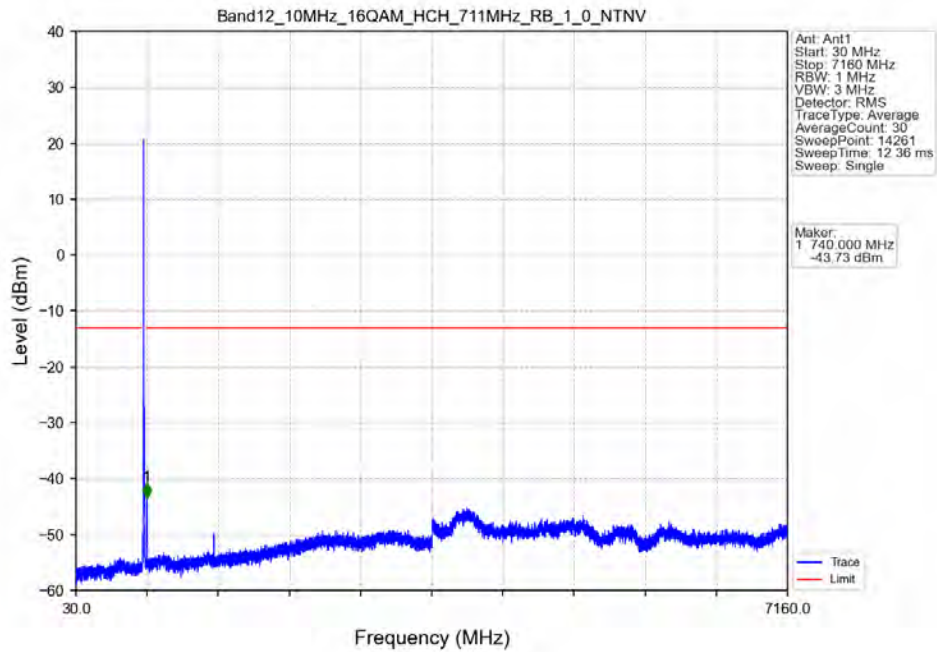
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



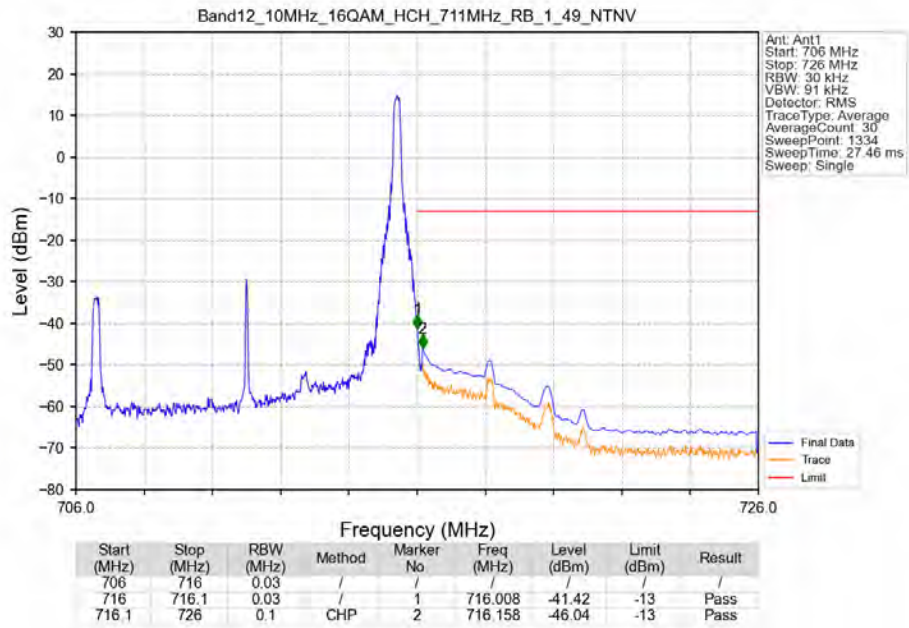
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



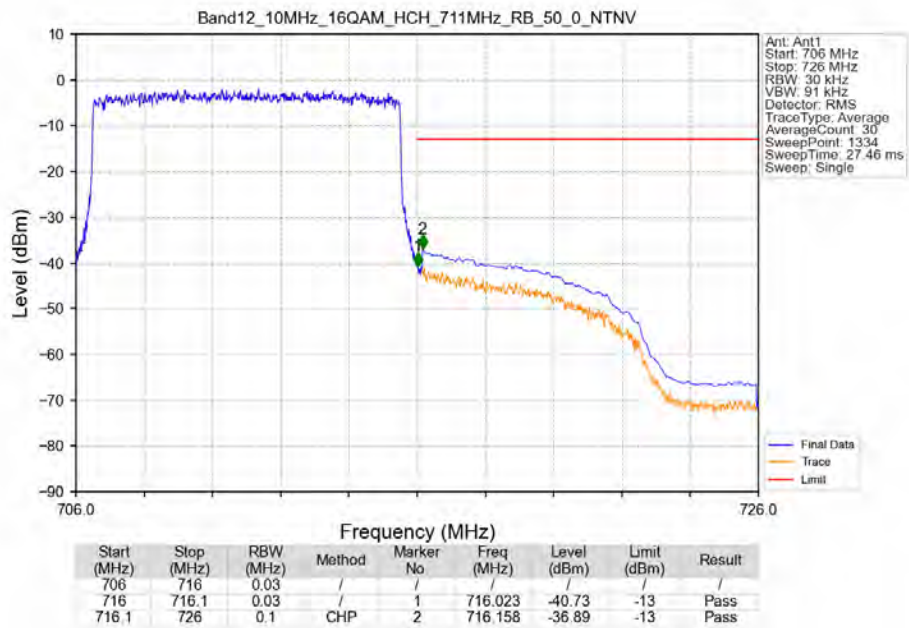
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Field Strength of Spurious Radiation

LTE Band 12-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-50.1	-13	-37.1	-52.87	2.47	5.24	Horizontal	Pass
2098.5	-62.42	-13	-49.42	-64.49	2.79	4.86	Horizontal	Pass
2798.0	-59.64	-13	-46.64	-63.0	3.12	6.48	Horizontal	Pass
1399.0	-57.34	-13	-44.34	-60.11	2.47	5.24	Vertical	Pass
2098.5	-70.47	-13	-57.47	-72.54	2.79	4.86	Vertical	Pass
2798.0	-67.92	-13	-54.92	-71.28	3.12	6.48	Vertical	Pass

LTE Band 12-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-54.94	-13	-41.94	-57.74	2.48	5.28	Horizontal	Pass
2109.0	-70.64	-13	-57.64	-72.72	2.8	4.88	Horizontal	Pass
2812.0	-68.66	-13	-55.66	-72.05	3.12	6.51	Horizontal	Pass
1406.0	-62.52	-13	-49.52	-65.32	2.48	5.28	Vertical	Pass
2109.0	-70.74	-13	-57.74	-72.82	2.8	4.88	Vertical	Pass
2812.0	-68.52	-13	-55.52	-71.91	3.12	6.51	Vertical	Pass

LTE Band 12-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-56.83	-13	-43.83	-59.67	2.49	5.33	Horizontal	Pass
2119.5	-65.27	-13	-52.27	-67.37	2.81	4.91	Horizontal	Pass
2826.0	-68.13	-13	-55.13	-71.54	3.13	6.54	Horizontal	Pass
1413.0	-63.92	-13	-50.92	-66.76	2.49	5.33	Vertical	Pass
2119.5	-70.34	-13	-57.34	-72.44	2.81	4.91	Vertical	Pass
2826.0	-68.66	-13	-55.66	-72.07	3.13	6.54	Vertical	Pass

---End of Attachment---