

1. Effective (Isotropic) Radiated Power Output Data

1.1 B14_5MHz_ERP

1.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	790.5	1	0	23.57	-0.5	20.92	<=34.77	Pass		
			13	23.6	-0.5	20.95	<=34.77	Pass		
			24	23.54	-0.5	20.89	<=34.77	Pass		
		12	0	22.51	-0.5	19.86	<=34.77	Pass		
			6	22.59	-0.5	19.94	<=34.77	Pass		
			13	22.56	-0.5	19.91	<=34.77	Pass		
		25	0	22.59	-0.5	19.94	<=34.77	Pass		
		793	1	0	23.57	-0.5	20.92	<=34.77	Pass	
				13	23.58	-0.5	20.93	<=34.77	Pass	
	24			23.44	-0.5	20.79	<=34.77	Pass		
	12		0	22.49	-0.5	19.84	<=34.77	Pass		
			6	22.52	-0.5	19.87	<=34.77	Pass		
			13	22.49	-0.5	19.84	<=34.77	Pass		
	25	0	22.48	-0.5	19.83	<=34.77	Pass			
	795.5	1	0	23.55	-0.5	20.9	<=34.77	Pass		
			13	23.56	-0.5	20.91	<=34.77	Pass		
			24	23.42	-0.5	20.77	<=34.77	Pass		
		12	0	22.5	-0.5	19.85	<=34.77	Pass		
			6	22.55	-0.5	19.9	<=34.77	Pass		
			13	22.5	-0.5	19.85	<=34.77	Pass		
		25	0	22.5	-0.5	19.85	<=34.77	Pass		
		16QAM	790.5	1	0	22.68	-0.5	20.03	<=34.77	Pass
					13	22.66	-0.5	20.01	<=34.77	Pass
	24				22.68	-0.5	20.03	<=34.77	Pass	
12	0			21.51	-0.5	18.86	<=34.77	Pass		
	6			21.6	-0.5	18.95	<=34.77	Pass		
	13			21.59	-0.5	18.94	<=34.77	Pass		
25	0		21.6	-0.5	18.95	<=34.77	Pass			
793	1		0	22.64	-0.5	19.99	<=34.77	Pass		
			13	22.65	-0.5	20	<=34.77	Pass		
			24	22.55	-0.5	19.9	<=34.77	Pass		
	12		0	21.52	-0.5	18.87	<=34.77	Pass		

			6	21.52	-0.5	18.87	<=34.77	Pass
			13	21.51	-0.5	18.86	<=34.77	Pass
		25	0	21.51	-0.5	18.86	<=34.77	Pass
	795.5	1	0	22.75	-0.5	20.1	<=34.77	Pass
			13	22.76	-0.5	20.11	<=34.77	Pass
			24	22.54	-0.5	19.89	<=34.77	Pass
		12	0	21.55	-0.5	18.9	<=34.77	Pass
			6	21.56	-0.5	18.91	<=34.77	Pass
			13	21.54	-0.5	18.89	<=34.77	Pass
		25	0	21.54	-0.5	18.89	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B14_10MHz_ERP

1.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	793	1	0	23.57	-0.5	20.92	<=34.77	Pass
			25	23.55	-0.5	20.9	<=34.77	Pass
			49	23.38	-0.5	20.73	<=34.77	Pass
		25	0	22.56	-0.5	19.91	<=34.77	Pass
			13	22.56	-0.5	19.91	<=34.77	Pass
			25	22.42	-0.5	19.77	<=34.77	Pass
50	0	22.62	-0.5	19.97	<=34.77	Pass		
16QAM	793	1	0	22.79	-0.5	20.14	<=34.77	Pass
			25	22.77	-0.5	20.12	<=34.77	Pass
			49	22.55	-0.5	19.9	<=34.77	Pass
		25	0	21.56	-0.5	18.91	<=34.77	Pass
			13	21.58	-0.5	18.93	<=34.77	Pass
			25	21.48	-0.5	18.83	<=34.77	Pass
		50	0	21.63	-0.5	18.98	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B14_10MHz

2.1.1 Test Result

Band: 14 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	793	50	0	20	3.27	-0.680	-0.0009	-2.5 to 2.5	Pass
					3.85	-0.326	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.473	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.466	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.836	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.452	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.685	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-1.355	-0.0017	-2.5 to 2.5	Pass
				30	3.85	-0.447	-0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.232	-0.0003	-2.5 to 2.5	Pass
50	3.85	-0.348	-0.0004	-2.5 to 2.5	Pass				

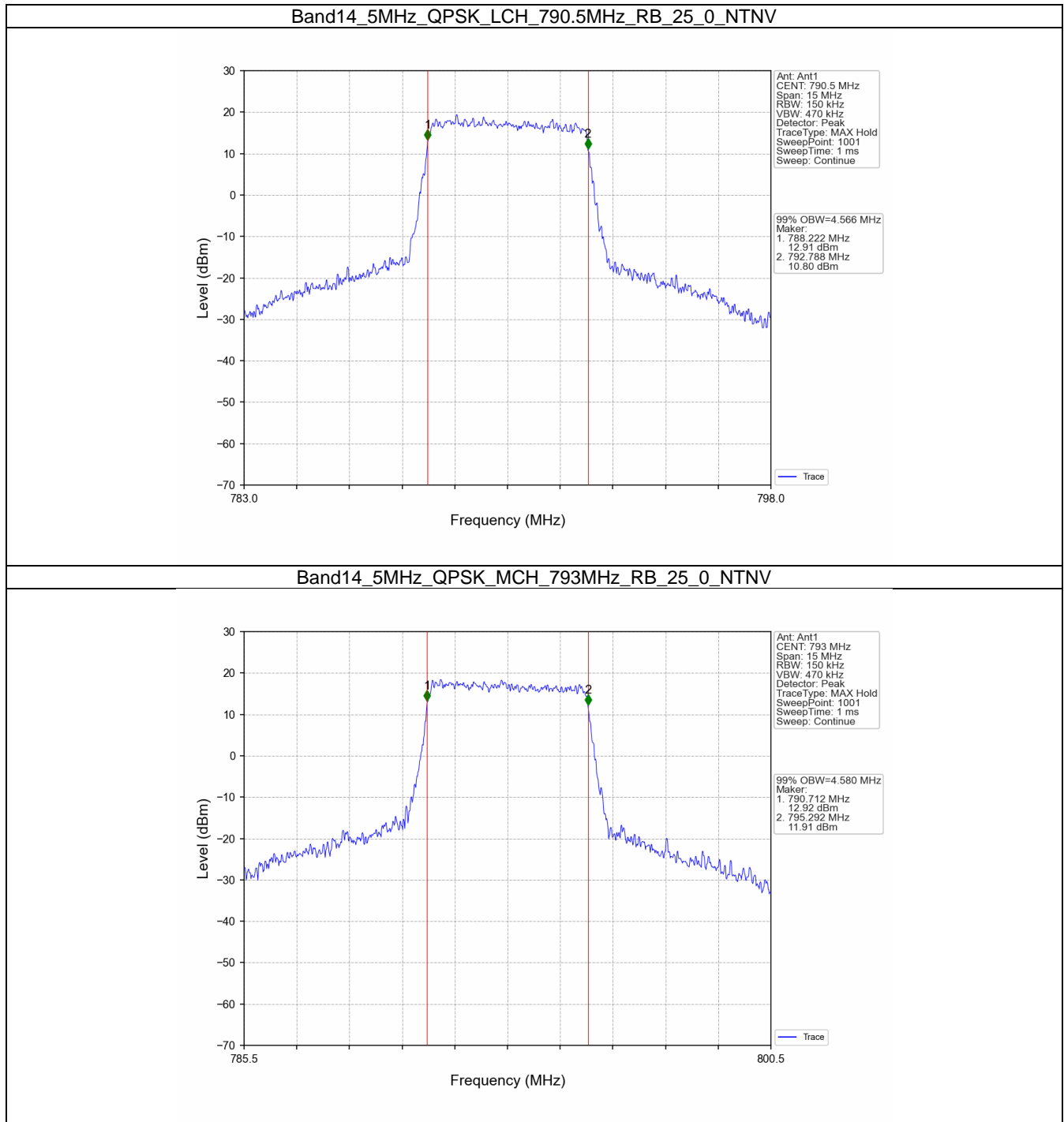
3. 99% & 26dB Bandwidth

3.1 Band14_OBW

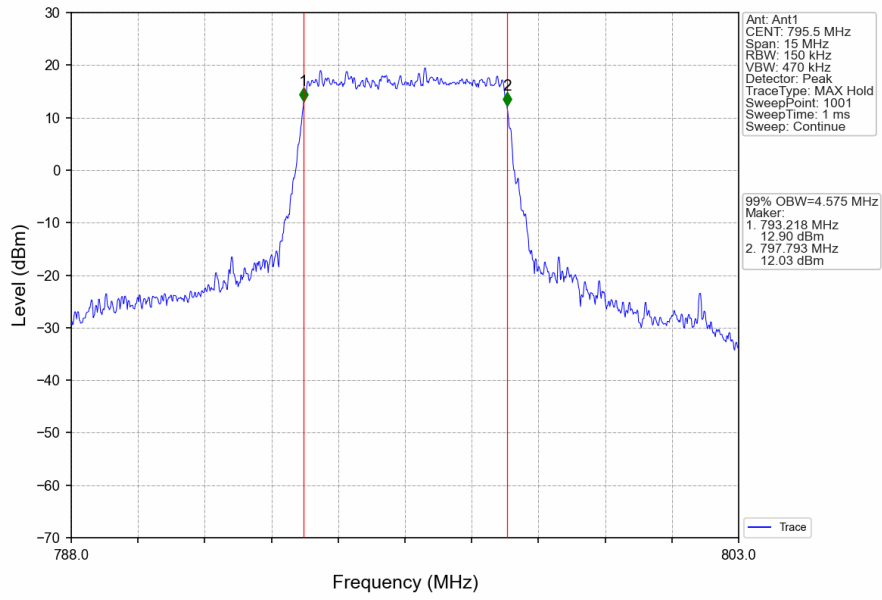
3.1.1 Test Result

Band: 14 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	4.566	/	Pass
		793	25	0	4.580	/	Pass
		795.5	25	0	4.575	/	Pass
	16QAM	790.5	25	0	4.560	/	Pass
		793	25	0	4.579	/	Pass
		795.5	25	0	4.560	/	Pass
10	QPSK	793	50	0	9.076	/	Pass
	16QAM	793	50	0	9.097	/	Pass

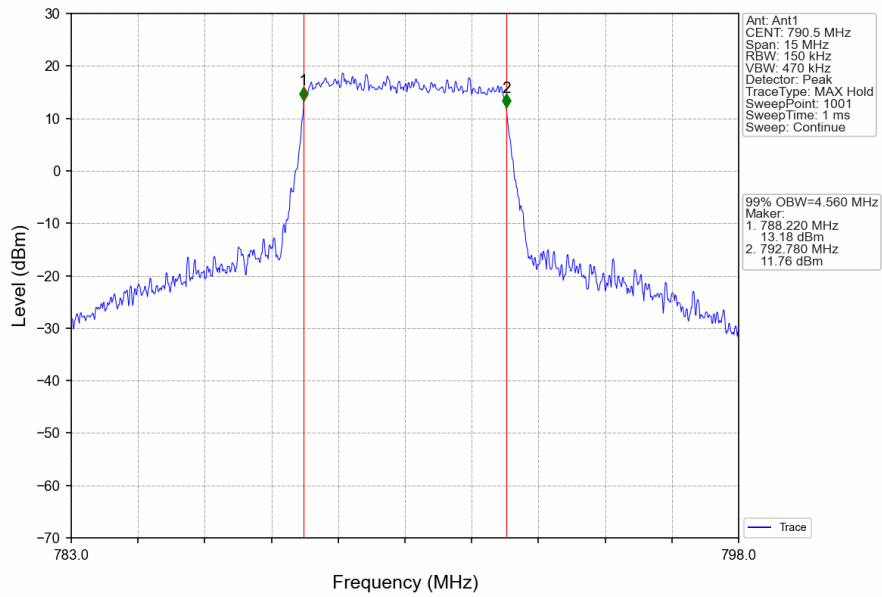
3.1.2 Test Graph



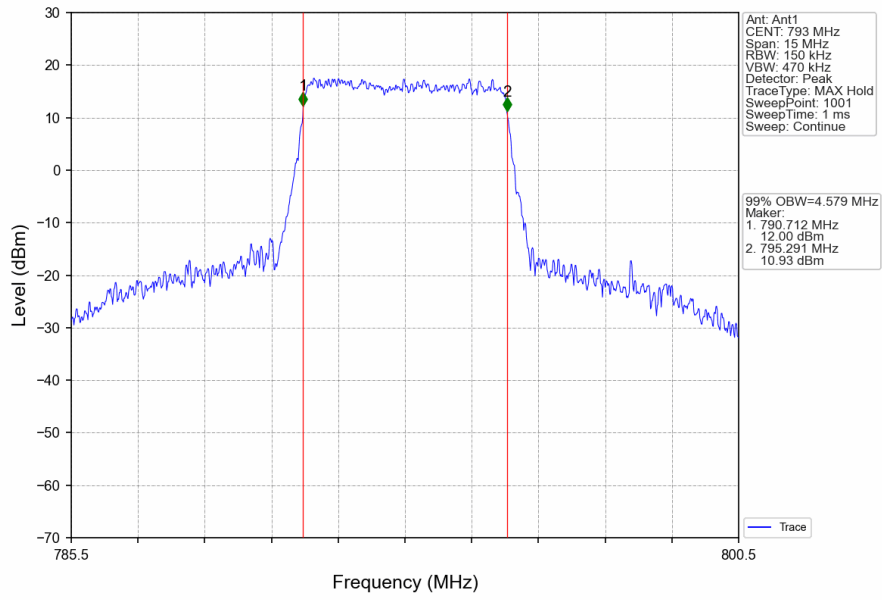
Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



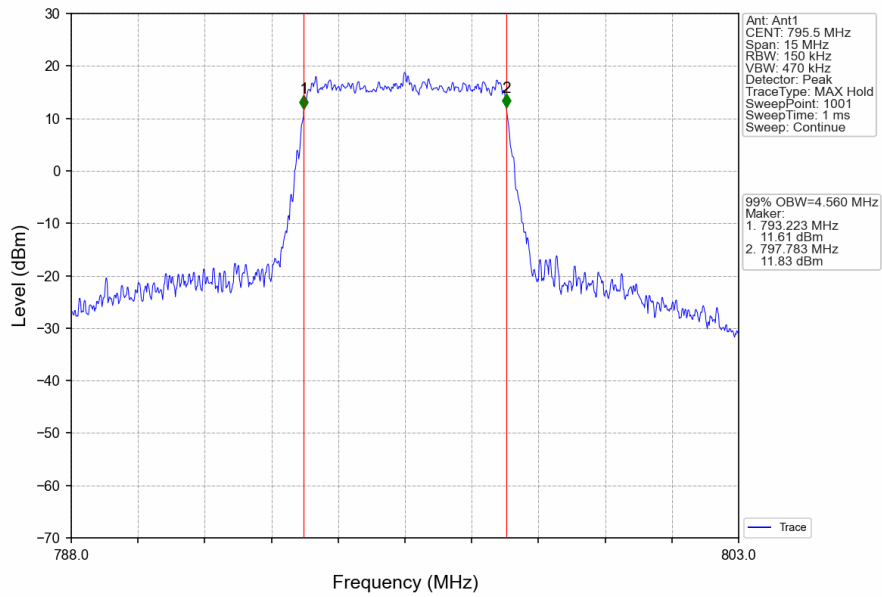
Band14_5MHz_16QAM_LCH_790.5MHz_RB_25_0_NTNV



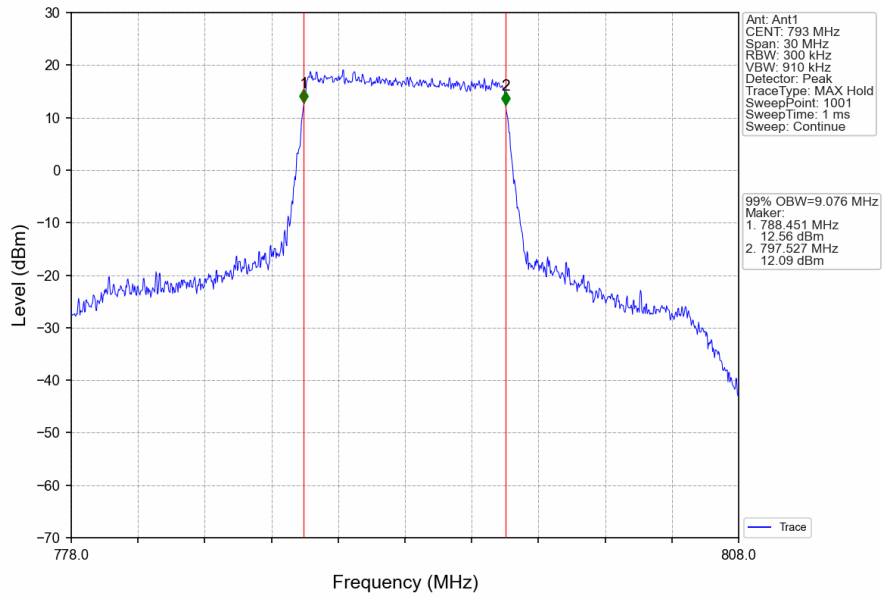
Band14_5MHz_16QAM_MCH_793MHz_RB_25_0_NTNV



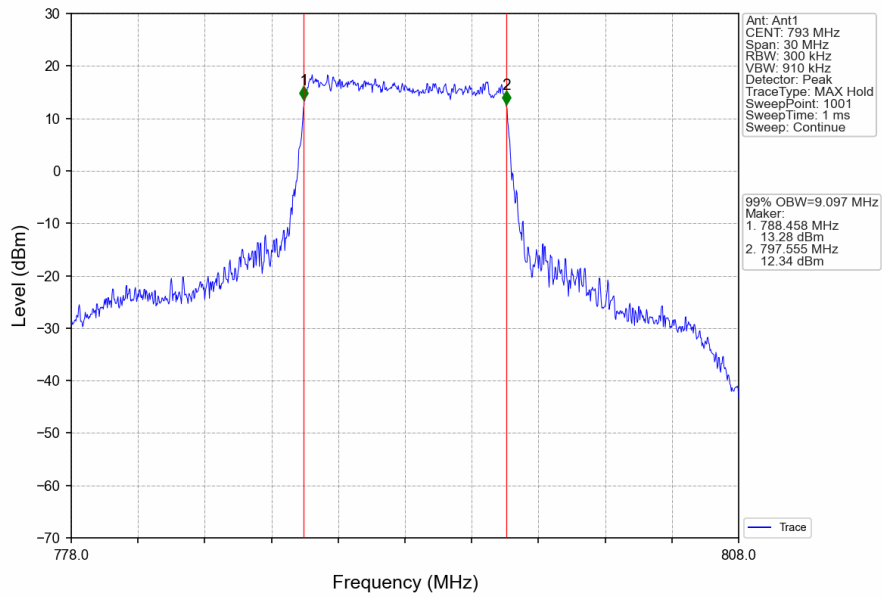
Band14_5MHz_16QAM_HCH_795.5MHz_RB_25_0_NTNV



Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV



Band14_10MHz_16QAM_MCH_793MHz_RB_50_0_NTNV

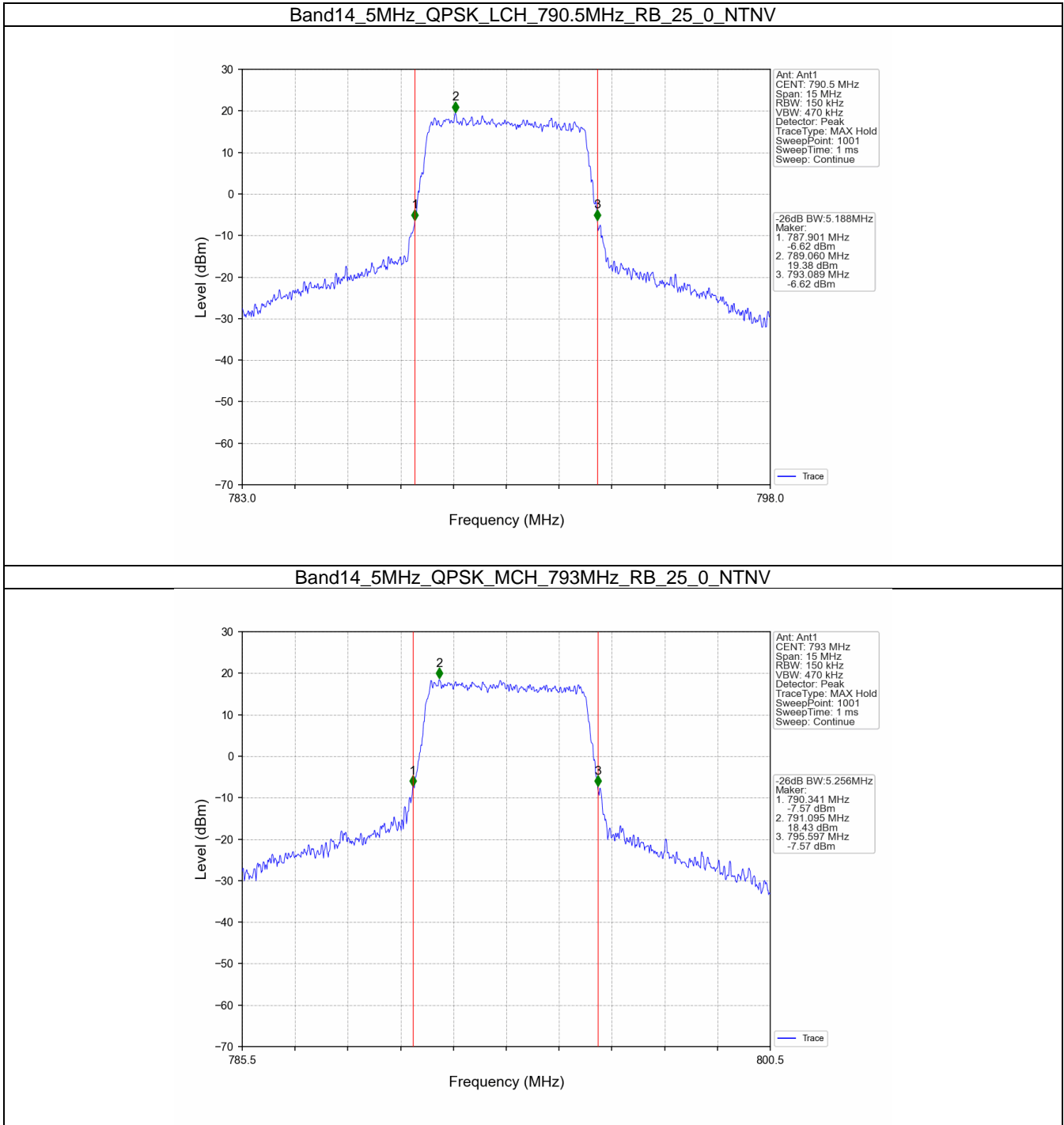


3.2 Band14_XDB

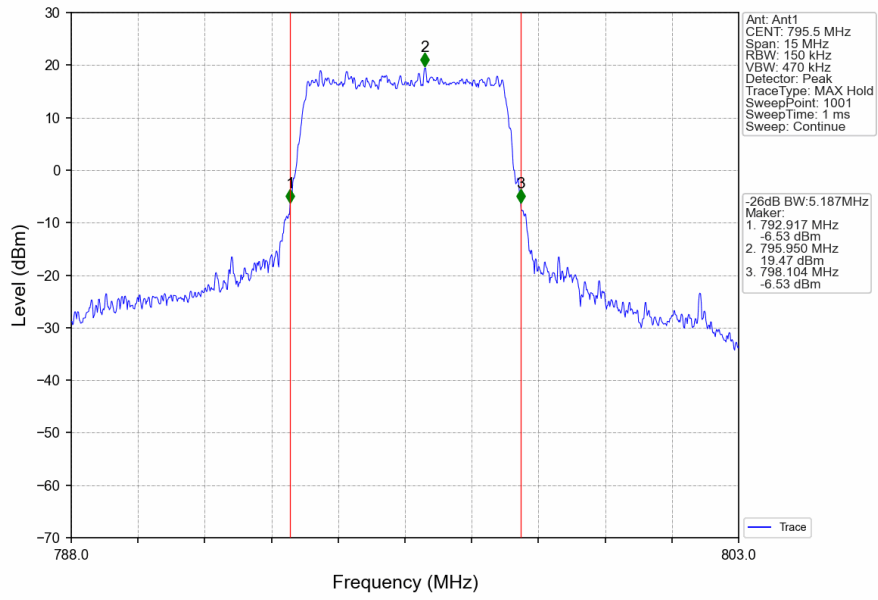
3.2.1 Test Result

Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	5.188	/	Pass
		793	25	0	5.256	/	Pass
		795.5	25	0	5.187	/	Pass
	16QAM	790.5	25	0	5.216	/	Pass
		793	25	0	5.264	/	Pass
		795.5	25	0	5.184	/	Pass
10	QPSK	793	50	0	10.143	/	Pass
	16QAM	793	50	0	10.212	/	Pass

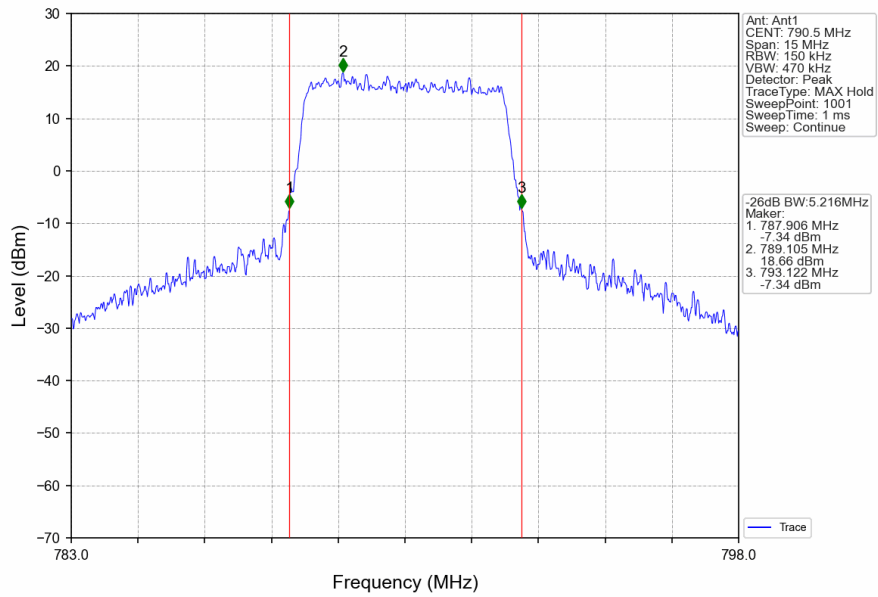
3.2.2 Test Graph



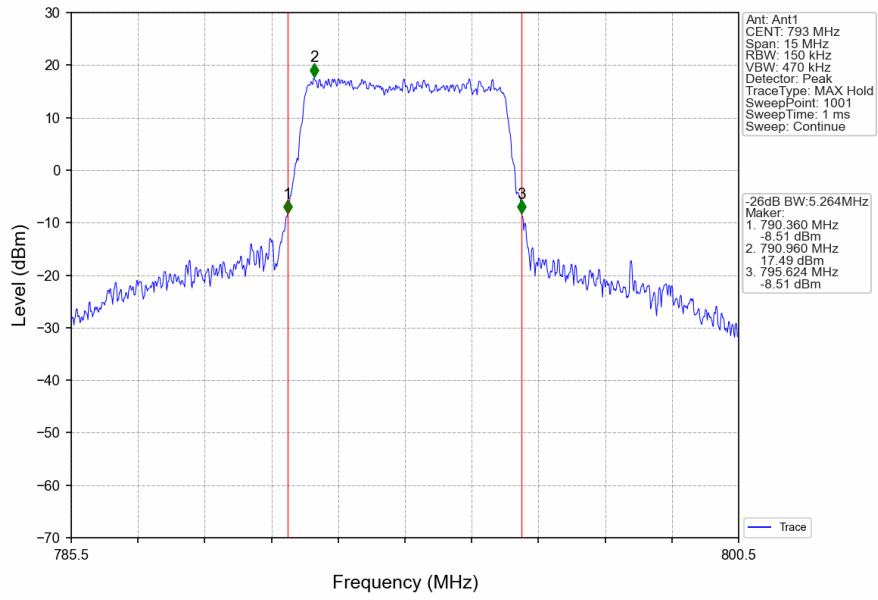
Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



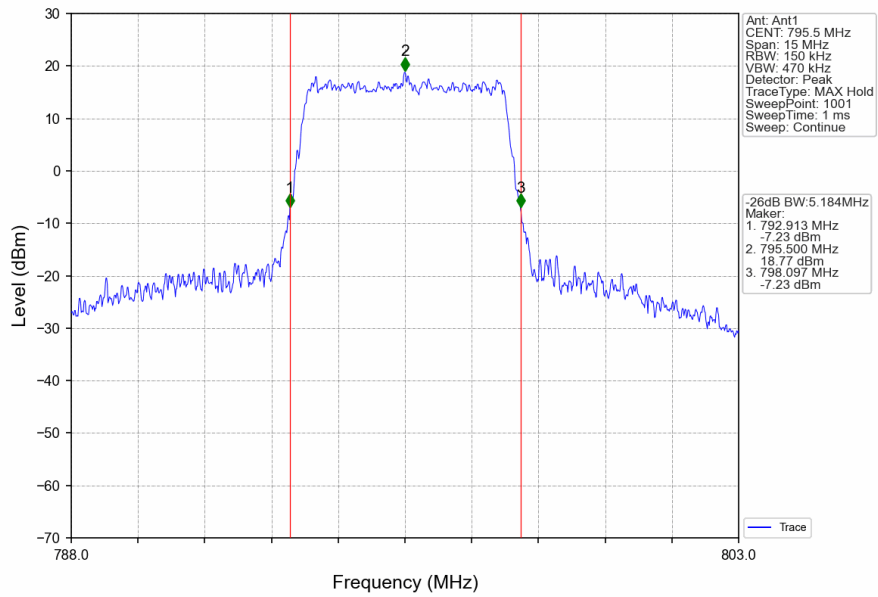
Band14_5MHz_16QAM_LCH_790.5MHz_RB_25_0_NTNV



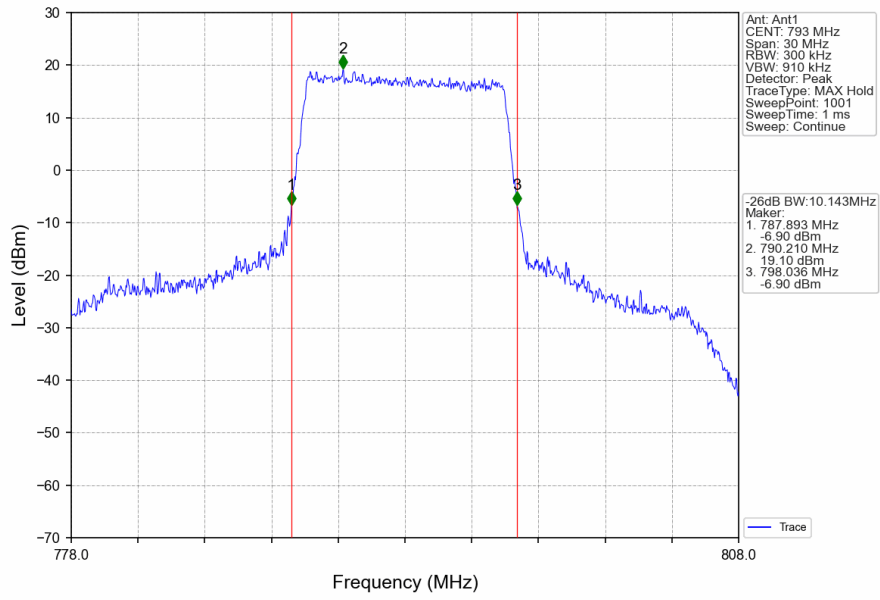
Band14_5MHz_16QAM_MCH_793MHz_RB_25_0_NTNV



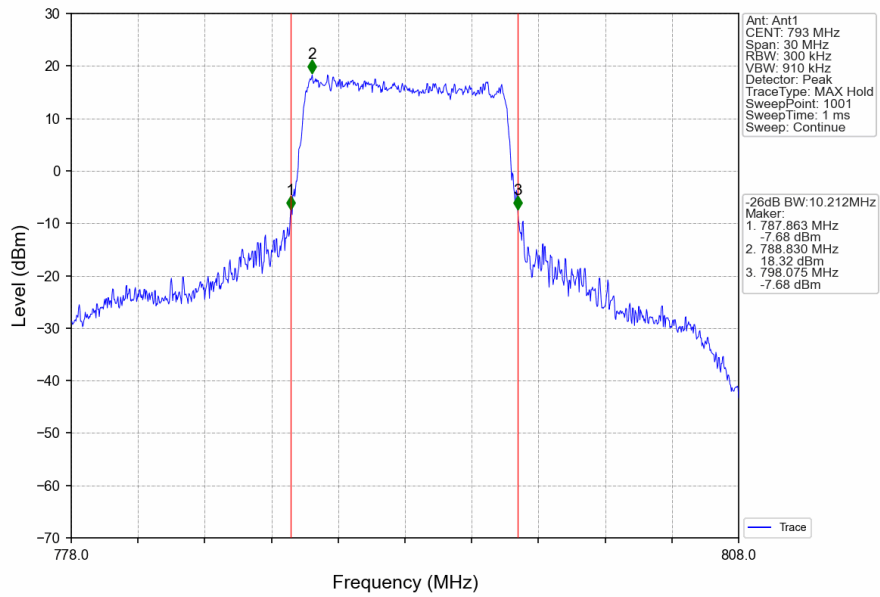
Band14_5MHz_16QAM_HCH_795.5MHz_RB_25_0_NTNV



Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV



Band14_10MHz_16QAM_MCH_793MHz_RB_50_0_NTNV



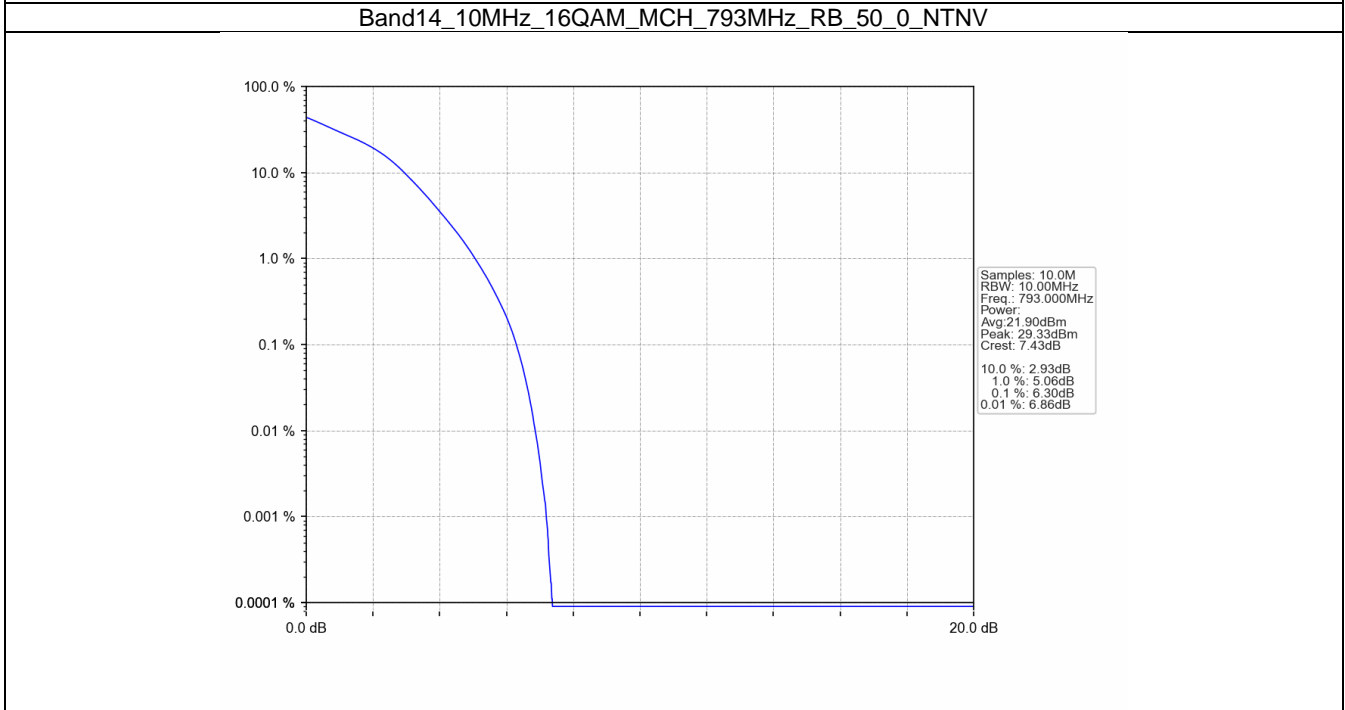
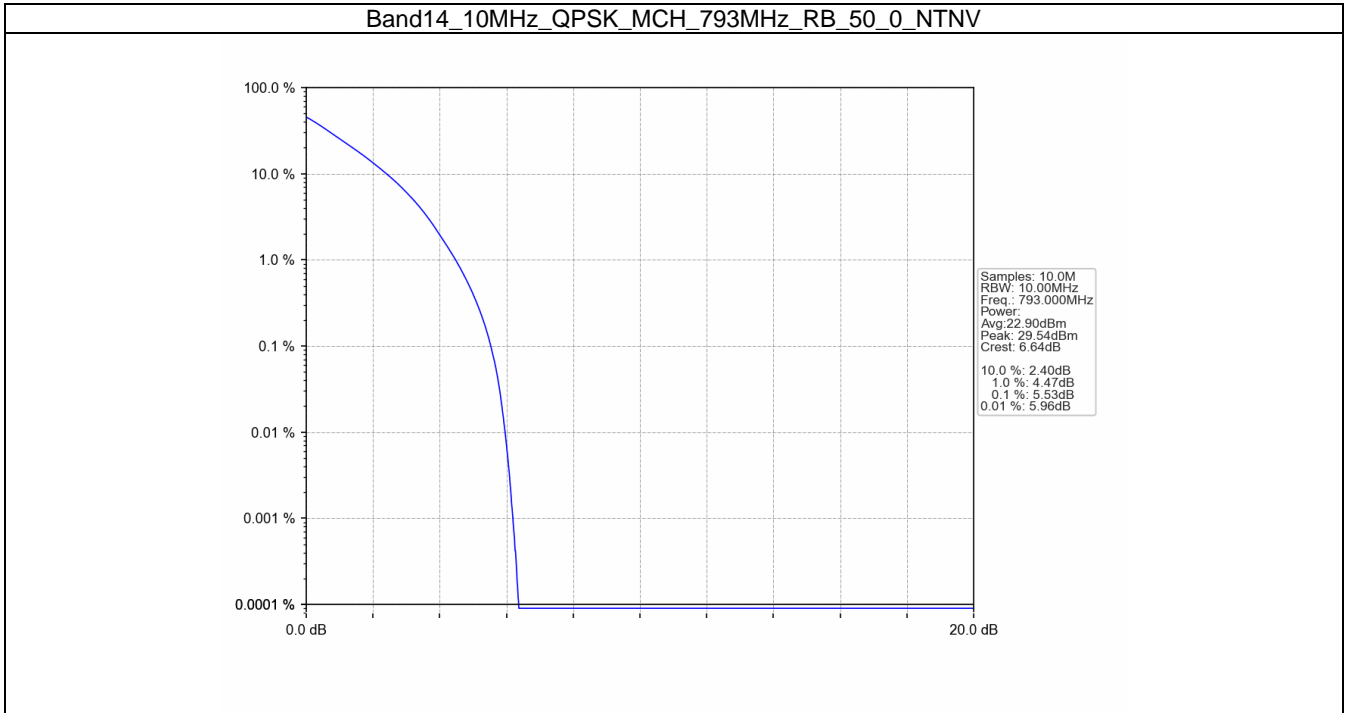
4. Peak-Average Ratio

4.1 B14_10MHz

4.1.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	793	50	0	5.53	<=13	Pass
16QAM	793	50	0	6.30	<=13	Pass

4.1.2 Test Graph



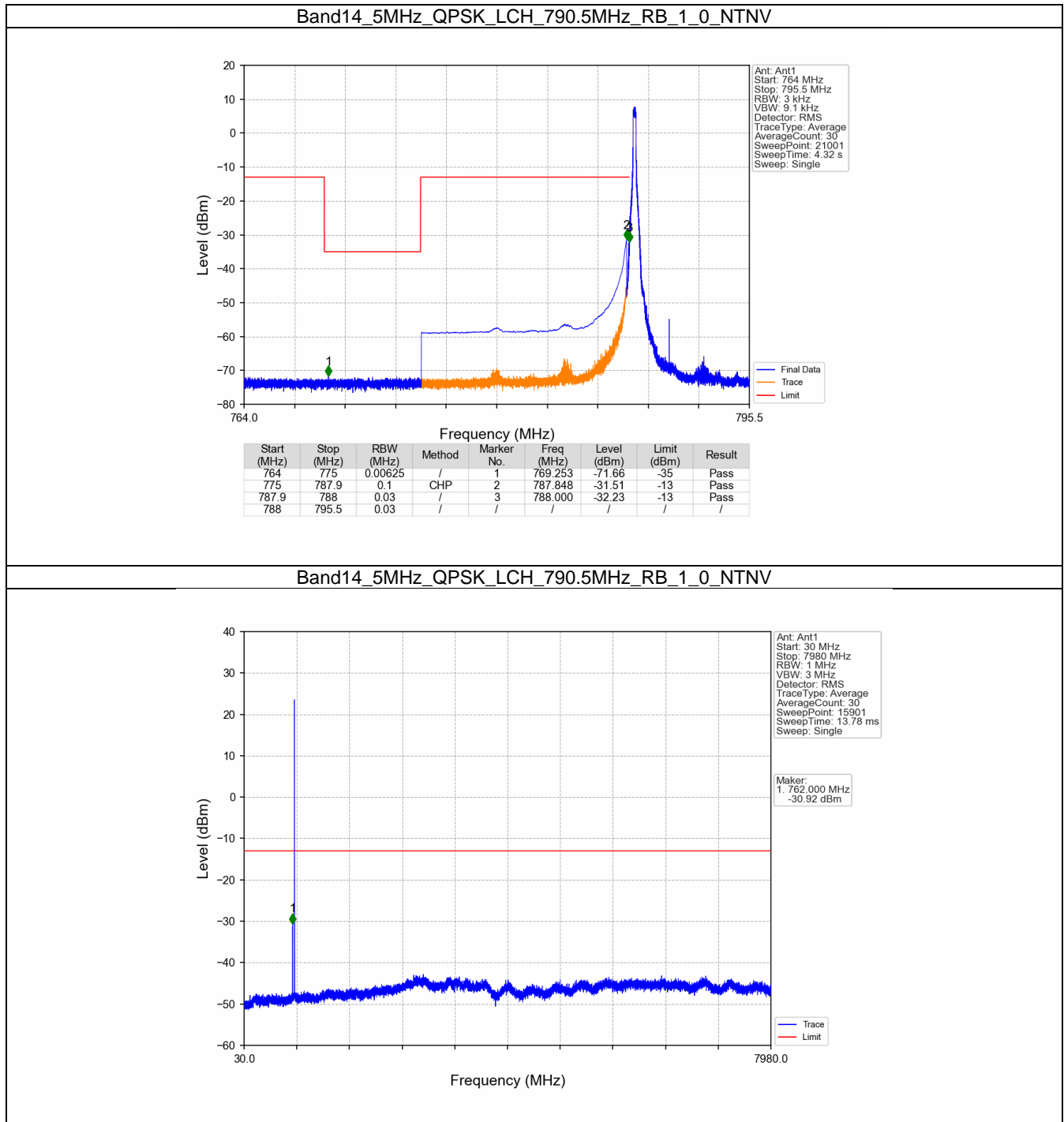
5. Spurious Emission

5.1 B14_5MHz

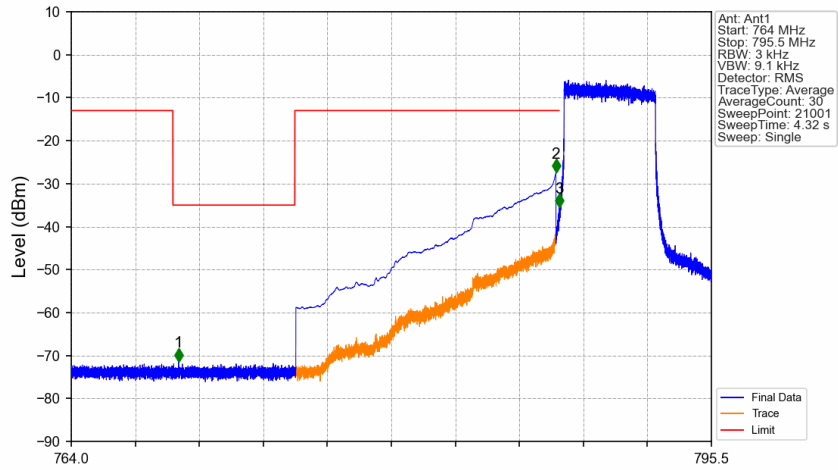
5.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	793	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	795.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	

5.1.2 Test Graph

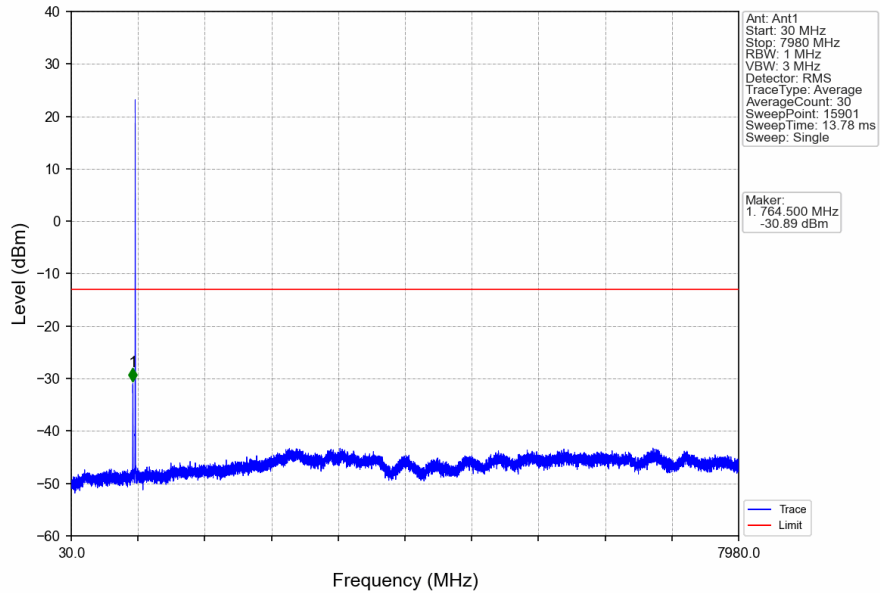


Band14_5MHz_QPSK_LCH_790.5MHz_RB_25_0_NTNV

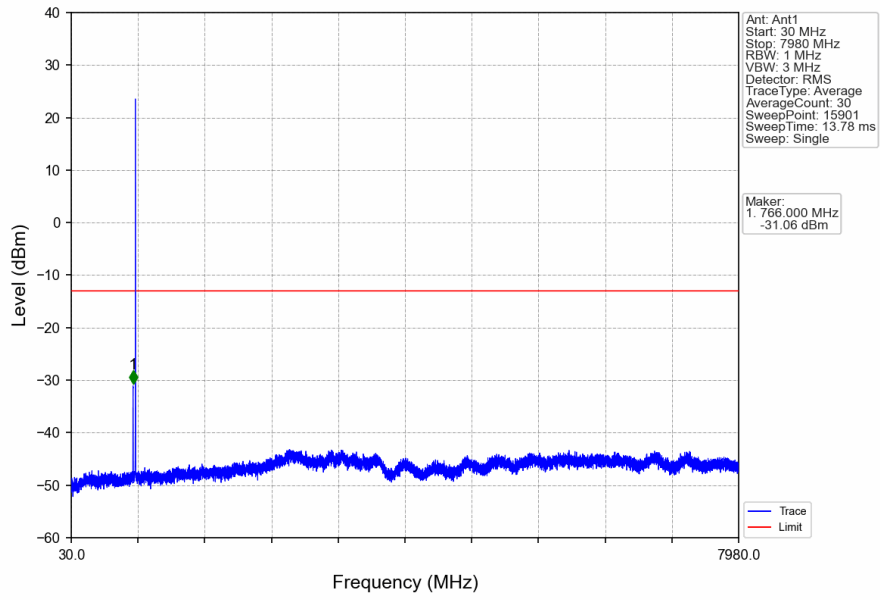


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	1	769.279	-71.42	-35	Pass
775	787.9	0.1	CHP	2	787.848	-27.44	-13	Pass
787.9	788	0.03	/	3	788.000	-35.50	-13	Pass
788	795.5	0.03	/	/	/	/	/	/

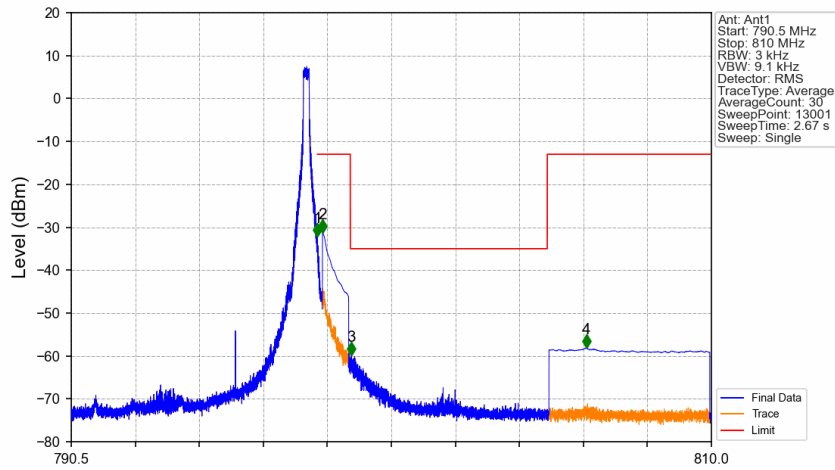
Band14_5MHz_QPSK_MCH_793MHz_RB_1_0_NTNV



Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_0_NTNV

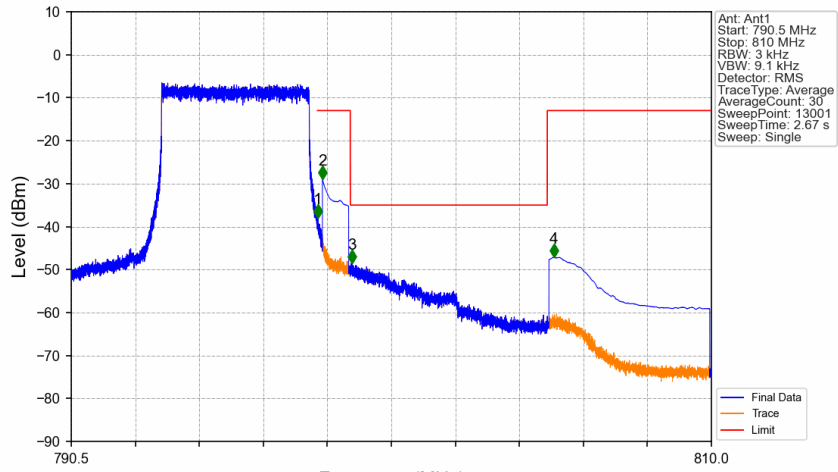


Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	1	798.000	-32.24	-13	Pass
798.1	799	0.1	CHP	2	798.160	-31.36	-13	Pass
799	805	0.00625	/	3	799.030	-59.89	-35	Pass
805	810	0.1	CHP	4	806.186	-58.09	-13	Pass

Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



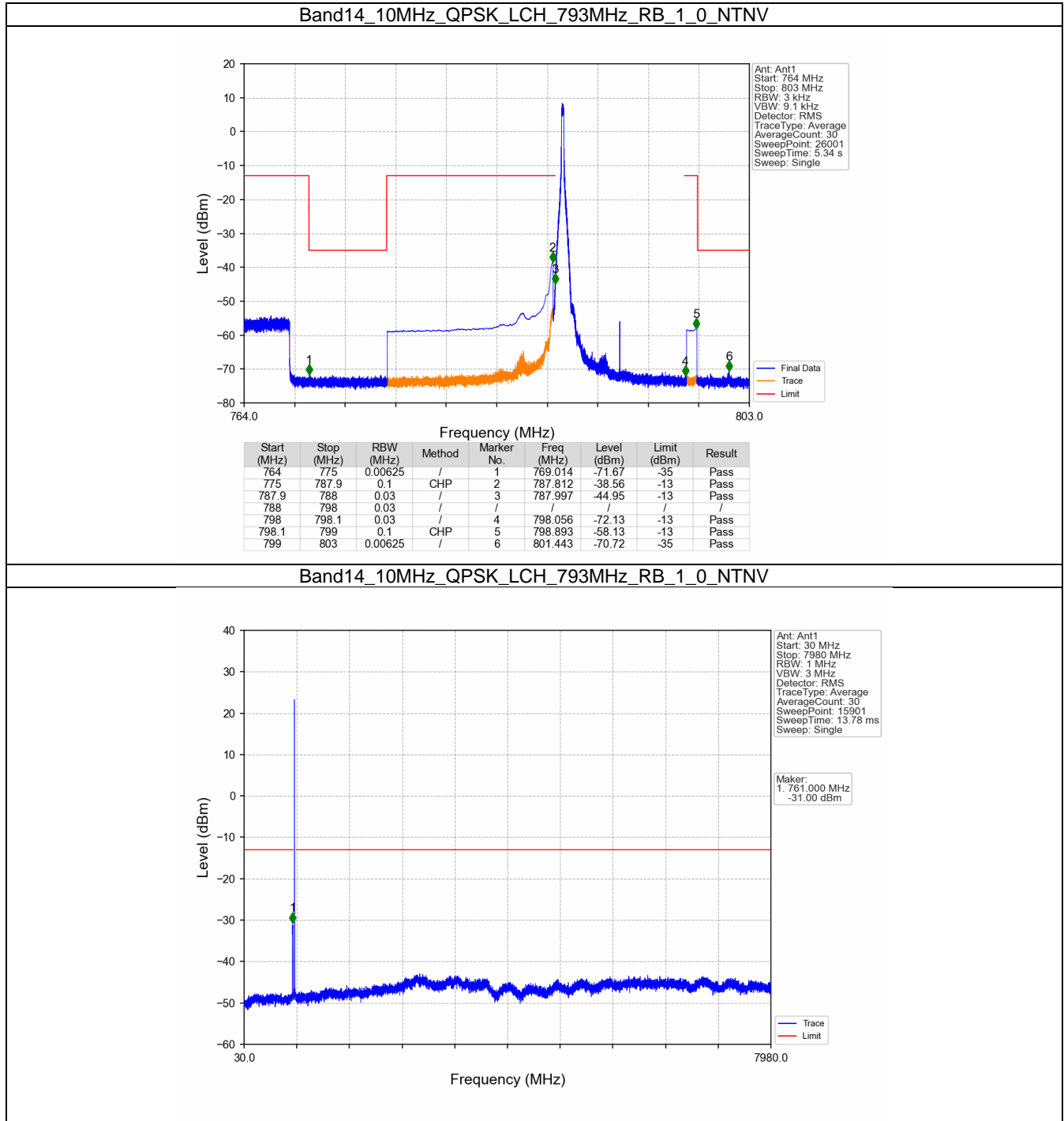
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	1	798.012	-37.92	-13	Pass
798.1	799	0.1	CHP	2	798.152	-29.00	-13	Pass
799	805	0.00625	/	3	799.048	-48.51	-35	Pass
805	810	0.1	CHP	4	805.202	-47.12	-13	Pass

5.2 B14_10MHz

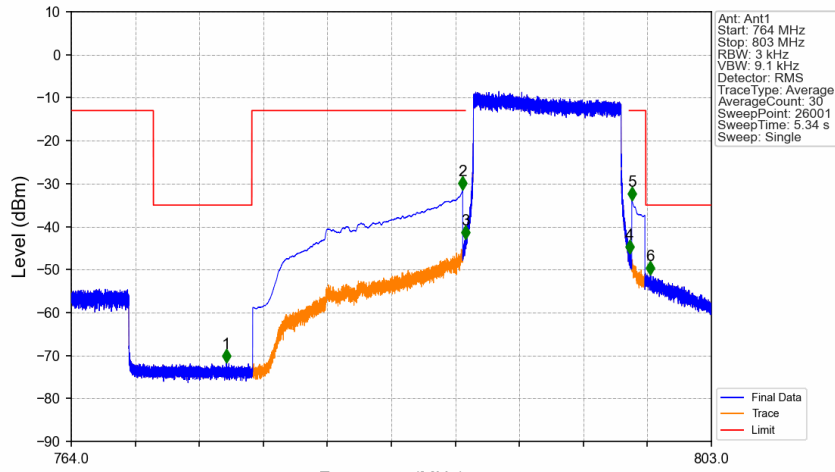
5.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	793	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	793	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2.2 Test Graph

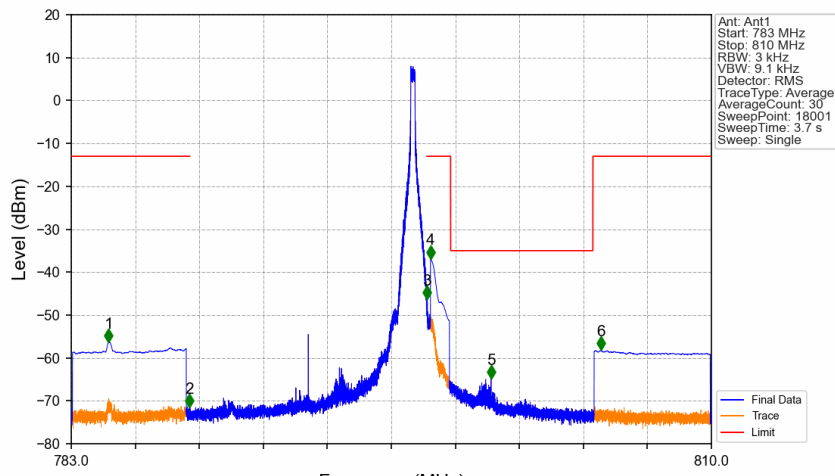


Band14_10MHz_QPSK_LCH_793MHz_RB_50_0_NTNV



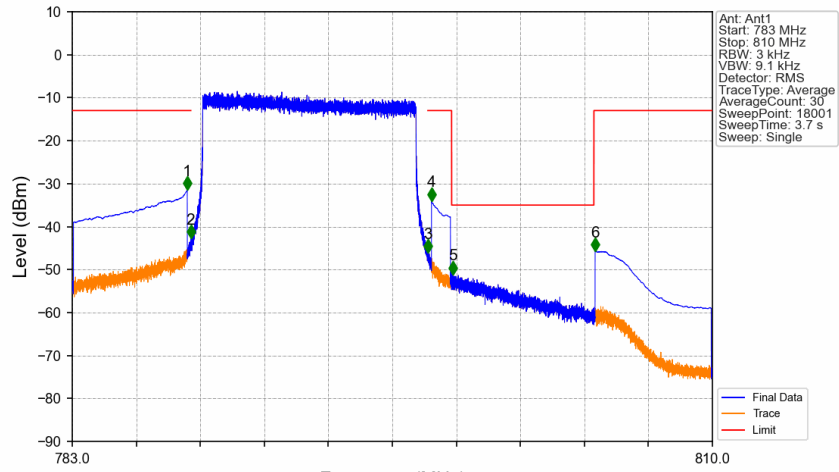
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	1	773.447	-71.70	-35	Pass
775	787.9	0.1	CHP	2	787.848	-31.48	-13	Pass
787.9	788	0.03	/	3	788.000	-42.87	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	4	798.004	-46.28	-13	Pass
798.1	799	0.1	CHP	5	798.150	-33.91	-13	Pass
799	803	0.00625	/	6	799.275	-51.18	-35	Pass

Band14_10MHz_QPSK_HCH_793MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	784.571	-56.32	-13	Pass
787.9	788	0.03	/	2	787.990	-71.57	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.005	-46.32	-13	Pass
798.1	799	0.1	CHP	4	798.152	-36.89	-13	Pass
799	805	0.00625	/	5	800.705	-64.90	-35	Pass
805	810	0.1	CHP	6	805.342	-58.19	-13	Pass

Band14_10MHz_QPSK_HCH_793MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	787.850	-31.50	-13	Pass
787.9	788	0.03	/	2	787.995	-42.77	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.001	-46.08	-13	Pass
798.1	799	0.1	CHP	4	798.152	-34.03	-13	Pass
799	805	0.00625	/	5	799.039	-51.12	-35	Pass
805	810	0.1	CHP	6	805.053	-45.68	-13	Pass