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Appendix B.7

LTE Band 14



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1. Effective (Isotropic) Radiated Power Output Data

Test Result ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	24.61	22.56	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.61	22.56	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.48	22.43	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.60	21.55	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.52	22.47	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.66	22.61	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.52	22.47	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.50	21.45	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.58	22.53	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.60	22.55	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.45	22.4	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.58	21.53	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.65	21.6	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.77	21.72	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.55	21.5	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.60	20.55	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.77	21.72	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.73	21.68	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.70	21.65	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.50	20.45	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.76	21.71	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.72	21.67	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.59	21.54	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.62	20.57	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.67	20.62	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.76	20.71	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.56	20.51	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	21.62	19.57	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.68	20.63	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.87	20.82	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.68	20.63	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.48	19.43	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.77	20.72	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.75	20.7	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.68	20.63	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.59	19.54	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	19.81	17.76	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	19.80	17.75	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.55	17.5	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.59	17.54	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.43	17.38	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.82	17.77	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	19.55	17.5	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	19.53	17.48	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	19.54	17.49	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.67	17.62	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.51	17.46	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.59	17.54	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.48	22.43	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.56	22.51	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.43	22.38	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.64	21.59	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.87	21.82	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.71	21.66	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.62	21.57	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.54	20.49	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.75	20.7	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.59	20.54	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.66	20.61	34.77	PASS



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Band14	10MHz	256QAM	23330	1RB#0	19.56	17.51	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.70	17.65	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	19.64	17.59	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.63	17.58	34.77	PASS



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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	3.3	-3.200	-0.0040	/	Pass
					3.8	-0.400	-0.0005	/	Pass
					4.4	-2.000	-0.0025	/	Pass
				-30	3.8	-3.800	-0.0048	/	Pass
				-20	3.8	-1.200	-0.0015	/	Pass
				-10	3.8	2.600	0.0033	/	Pass
				0	3.8	1.300	0.0016	/	Pass
				10	3.8	-9.500	-0.0120	/	Pass
				30	3.8	2.400	0.0030	/	Pass
				40	3.8	5.300	0.0067	/	Pass
				50	3.8	-2.600	-0.0033	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band14_OBW

3.1.1 Test Result

Band: 14 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	790.5	25	0	4.516	/	Pass
		793	25	0	4.522	/	Pass
		795.5	25	0	4.527	/	Pass
	16QAM	790.5	25	0	4.515	/	Pass
		793	25	0	4.530	/	Pass
		795.5	25	0	4.525	/	Pass
	64QAM	790.5	25	0	4.527	/	Pass
		793	25	0	4.525	/	Pass
		795.5	25	0	4.519	/	Pass
	256QAM	790.5	25	0	4.529	/	Pass
		793	25	0	4.523	/	Pass
		795.5	25	0	4.528	/	Pass
10	QPSK	793	50	0	9.012	/	Pass
	16QAM	793	50	0	9.042	/	Pass
	64QAM	793	50	0	9.005	/	Pass
	256QAM	793	50	0	9.019	/	Pass



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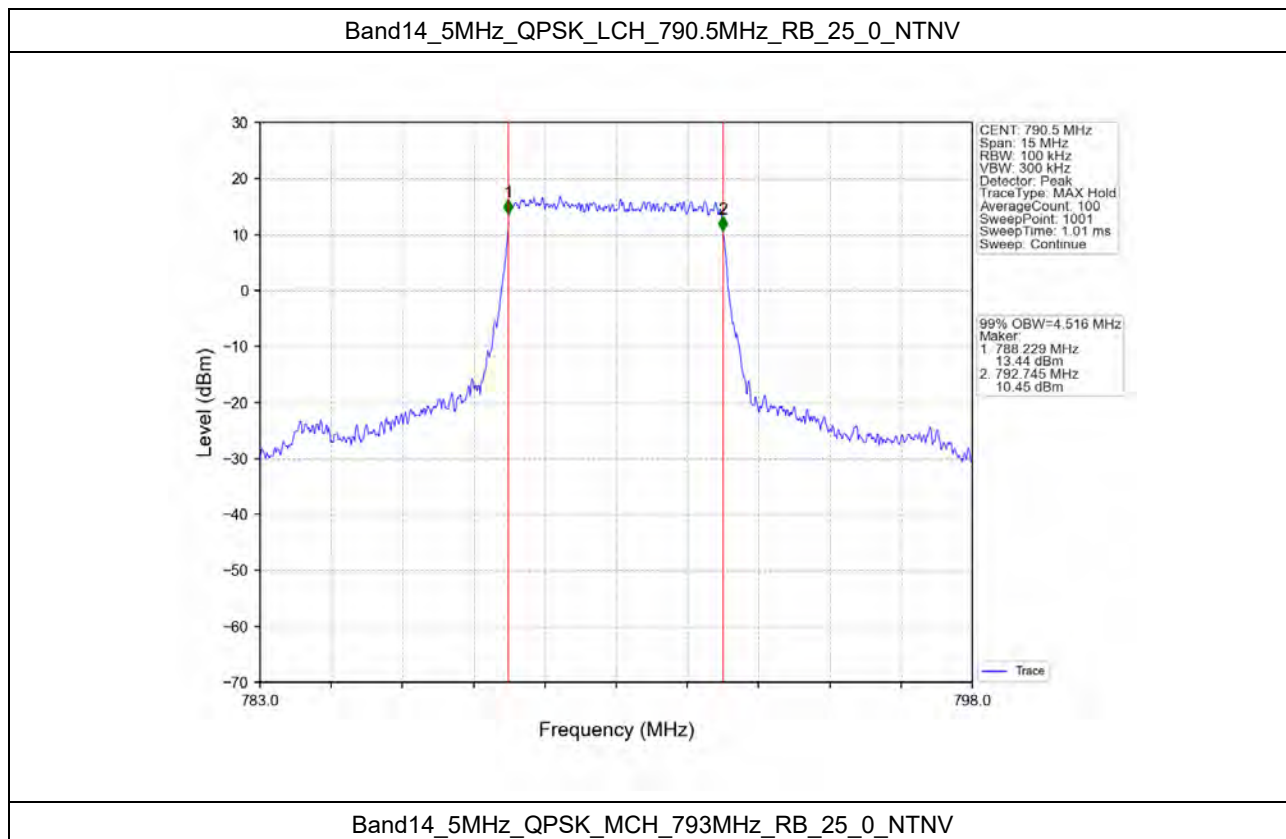
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3.1.2 Test Graph



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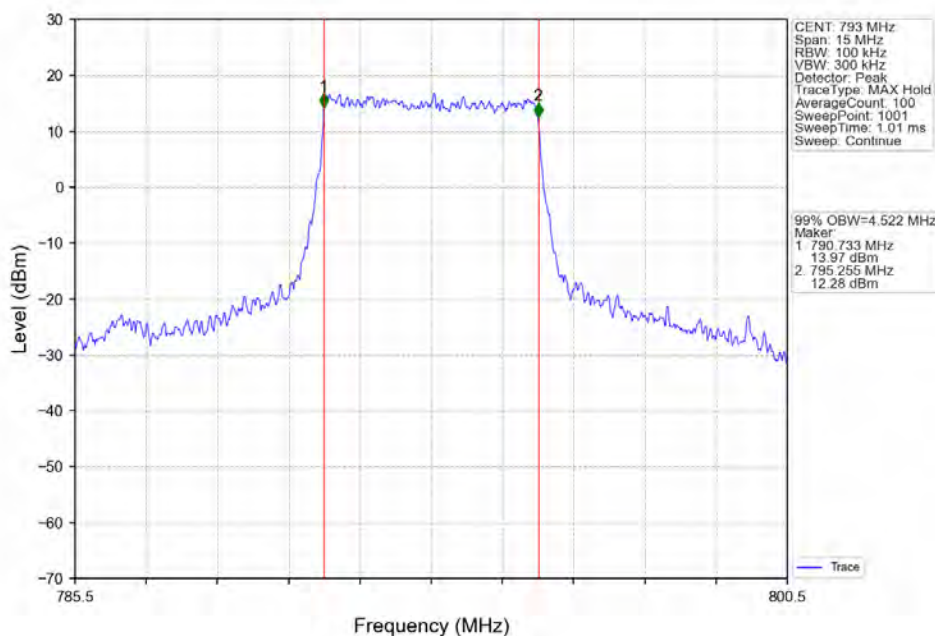
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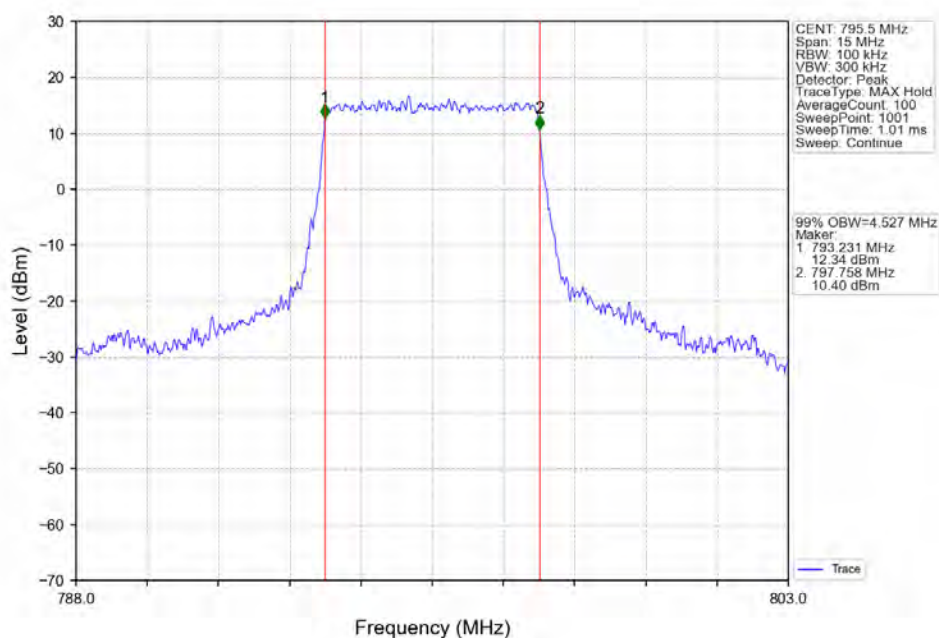
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Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



Band14_5MHz_16QAM_LCH_790.5MHz_RB_25_0_NTNV



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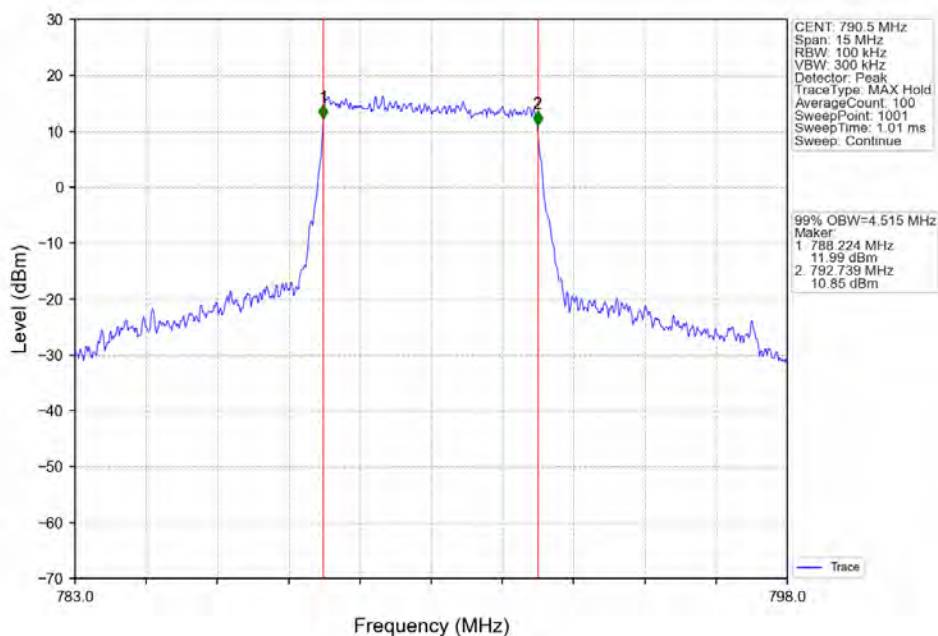
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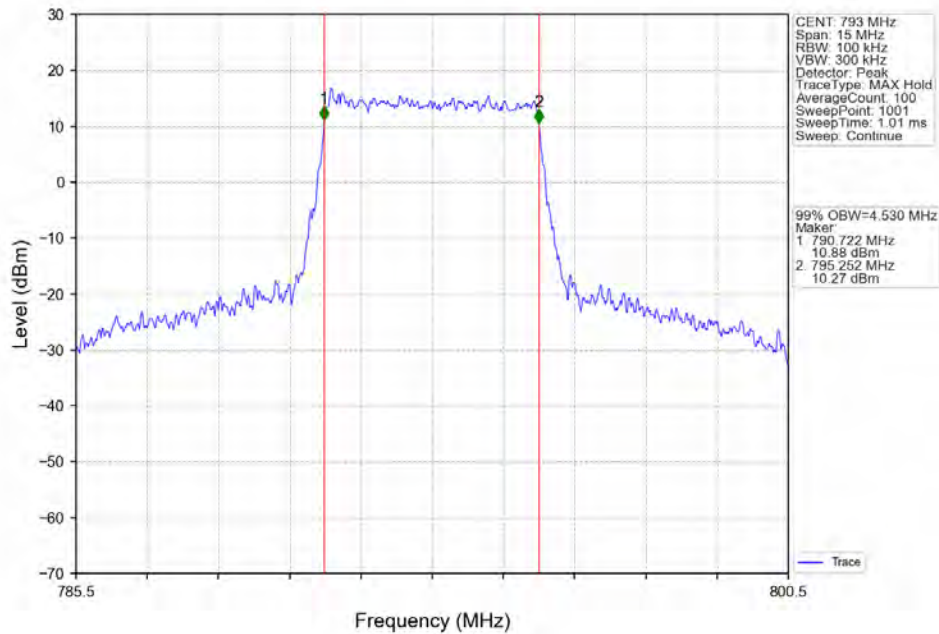
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Band14_5MHz_16QAM_MCH_793MHz_RB_25_0_NTNV



Band14_5MHz_16QAM_HCH_795.5MHz_RB_25_0_NTNV



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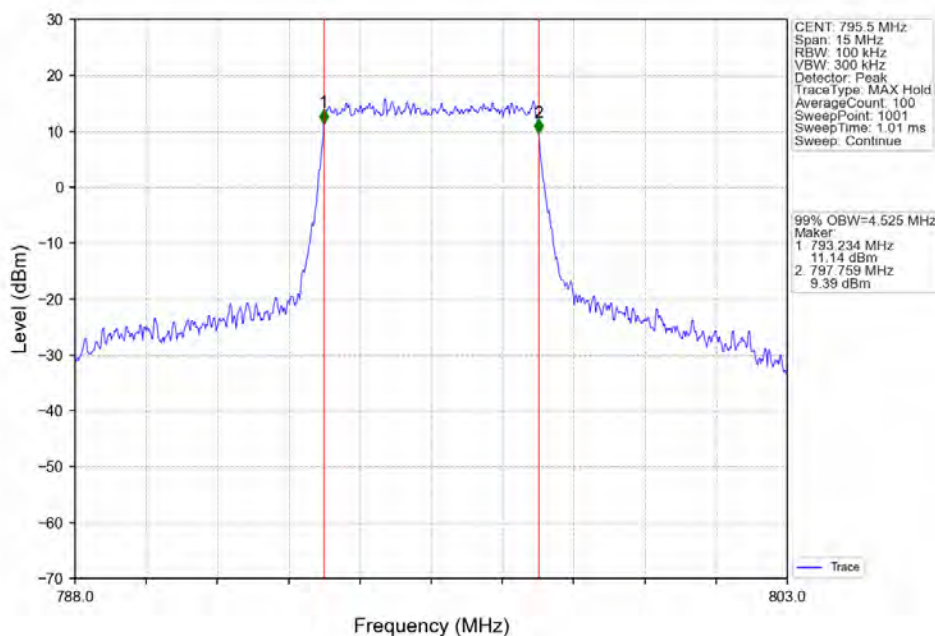
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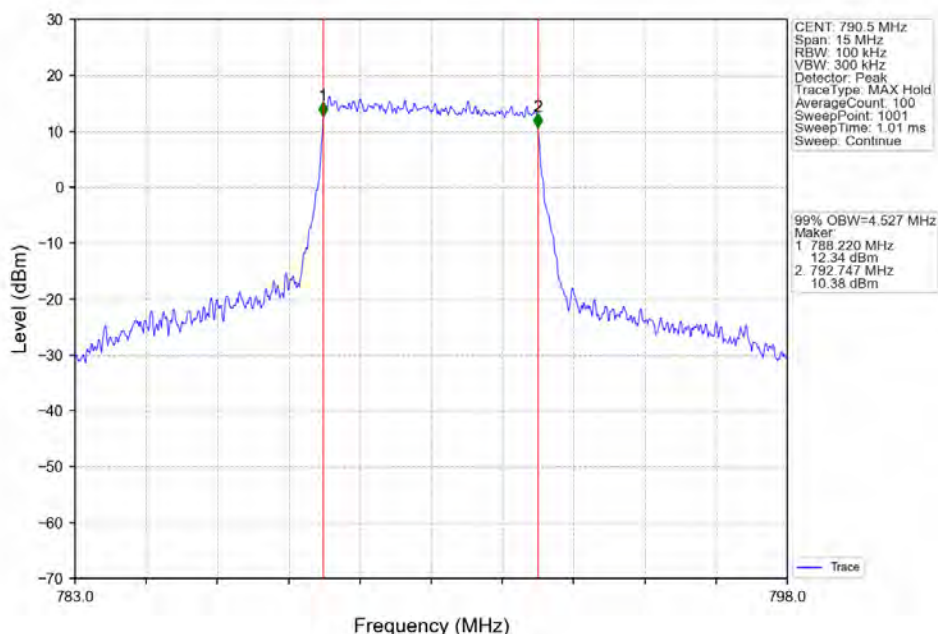
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Band14_5MHz_64QAM_MCH_793MHz_RB_25_0_NTNV



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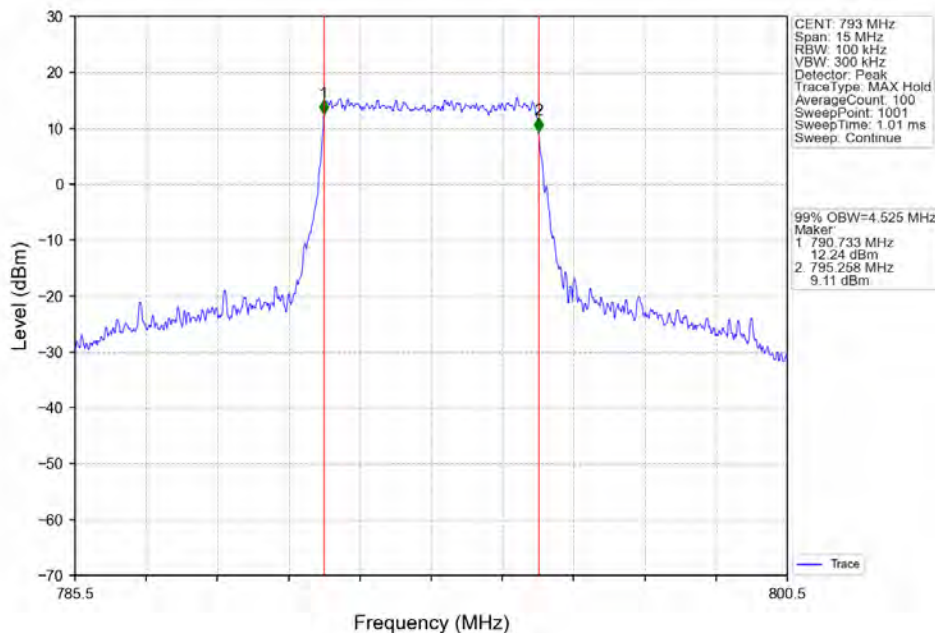
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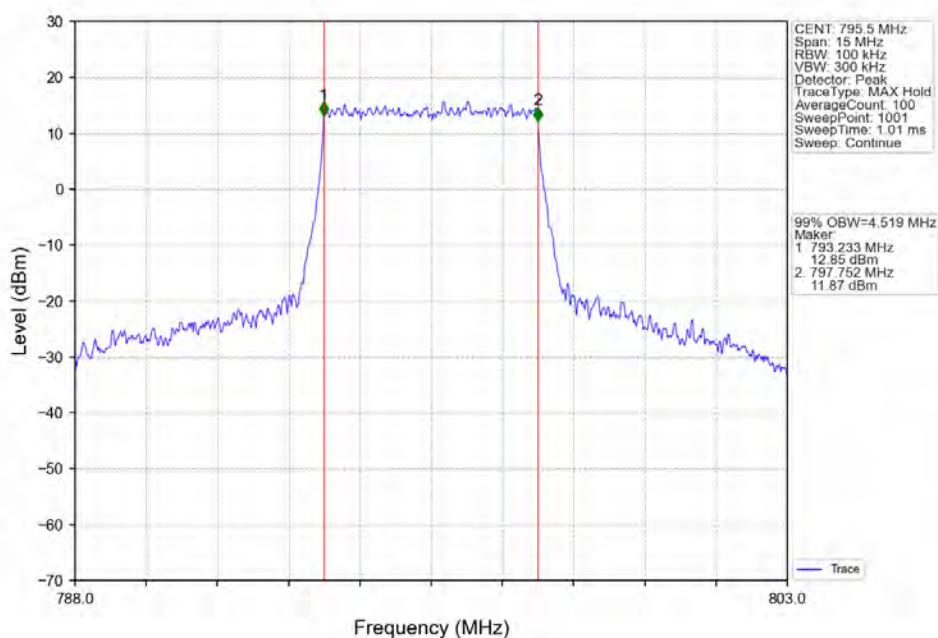
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Band14_5MHz_256QAM_LCH_790.5MHz_RB_25_0_NTNV



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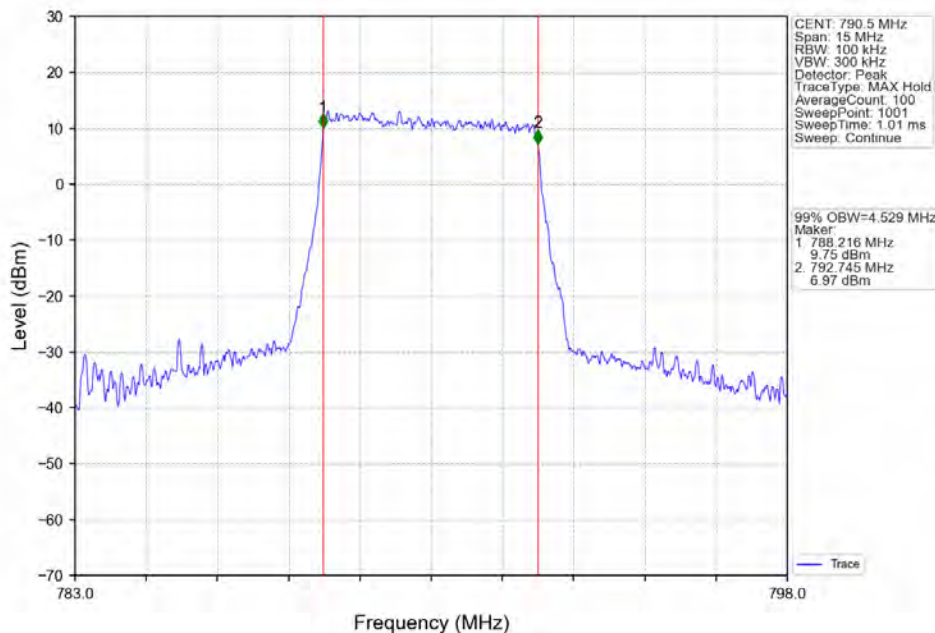
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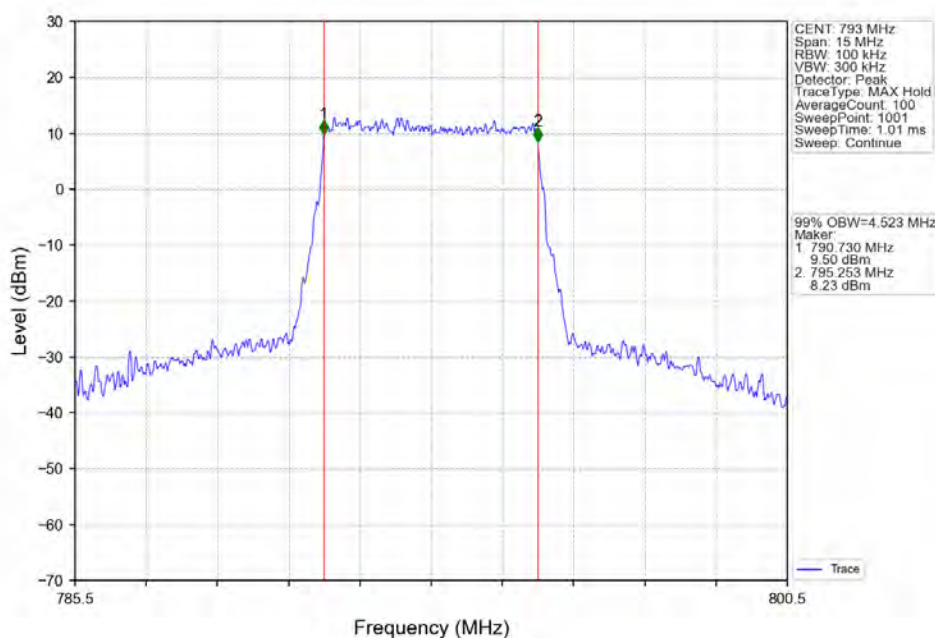
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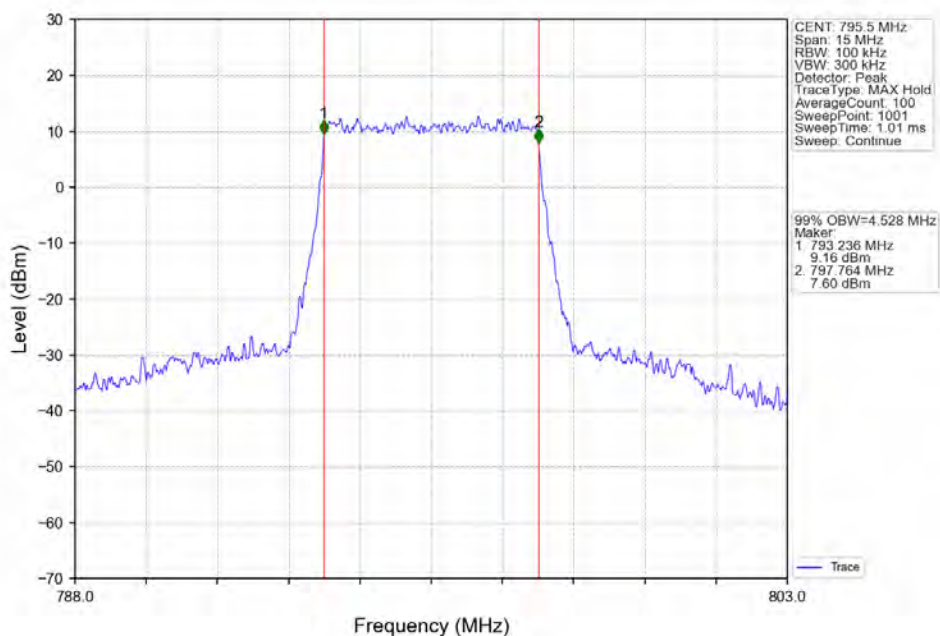
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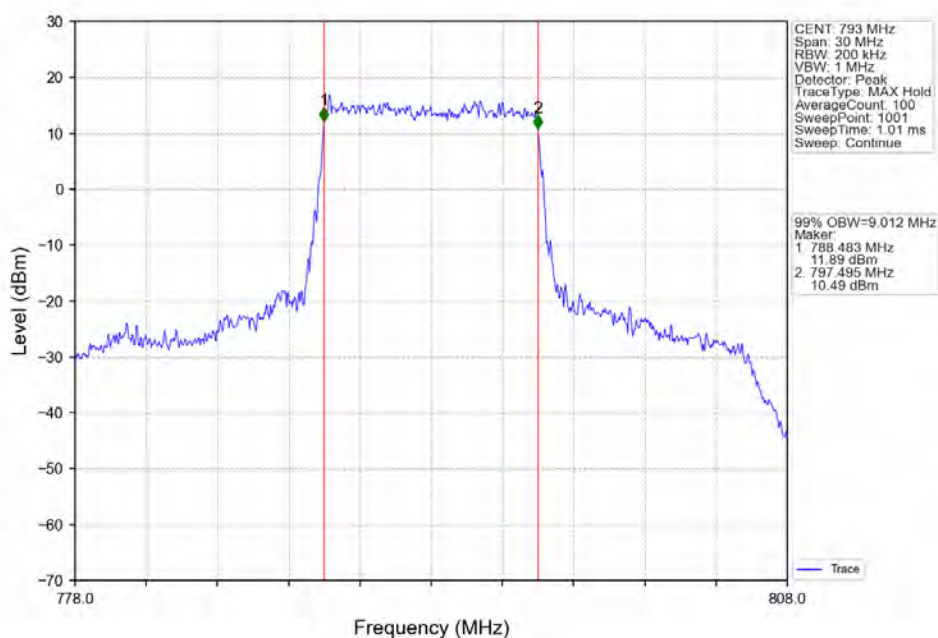
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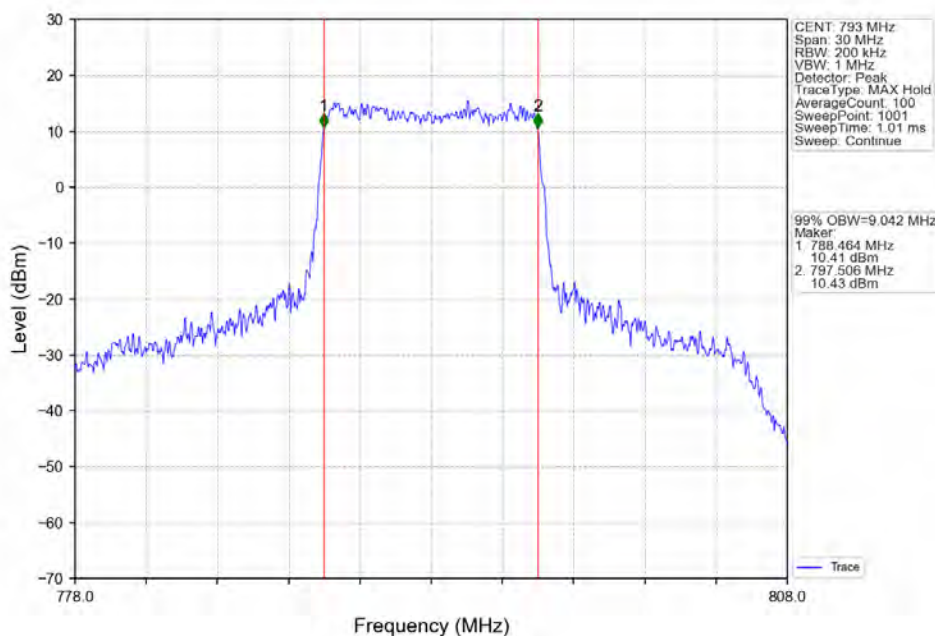
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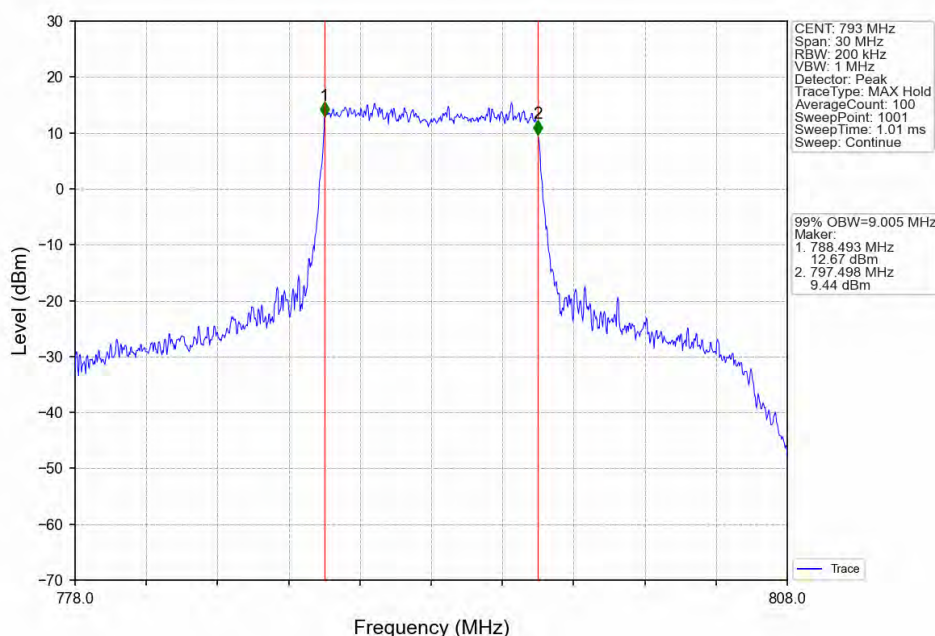
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Band14_10MHz_256QAM_MCH_793MHz_RB_50_0_NTNV



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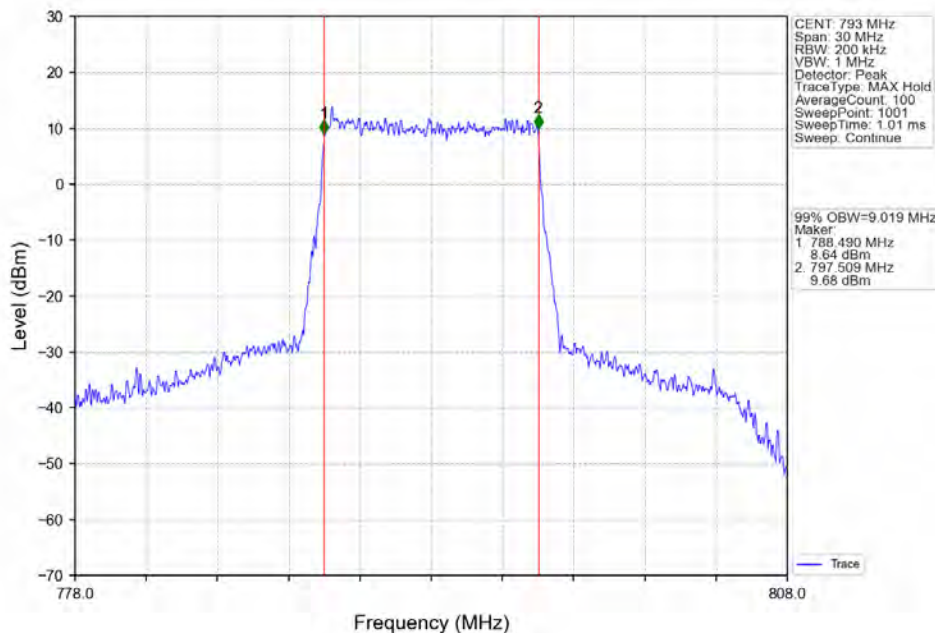
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3.2 Band14_XDB

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	5.176	/	Pass
		793	25	0	5.131	/	Pass
		795.5	25	0	5.183	/	Pass
	16QAM	790.5	25	0	5.132	/	Pass
		793	25	0	5.172	/	Pass
		795.5	25	0	5.133	/	Pass
	64QAM	790.5	25	0	5.178	/	Pass
		793	25	0	5.215	/	Pass
		795.5	25	0	5.181	/	Pass
	256QAM	790.5	25	0	5.089	/	Pass
		793	25	0	5.183	/	Pass
		795.5	25	0	5.169	/	Pass
10	QPSK	793	50	0	9.832	/	Pass
	16QAM	793	50	0	9.888	/	Pass
	64QAM	793	50	0	9.904	/	Pass
	256QAM	793	50	0	10.012	/	Pass



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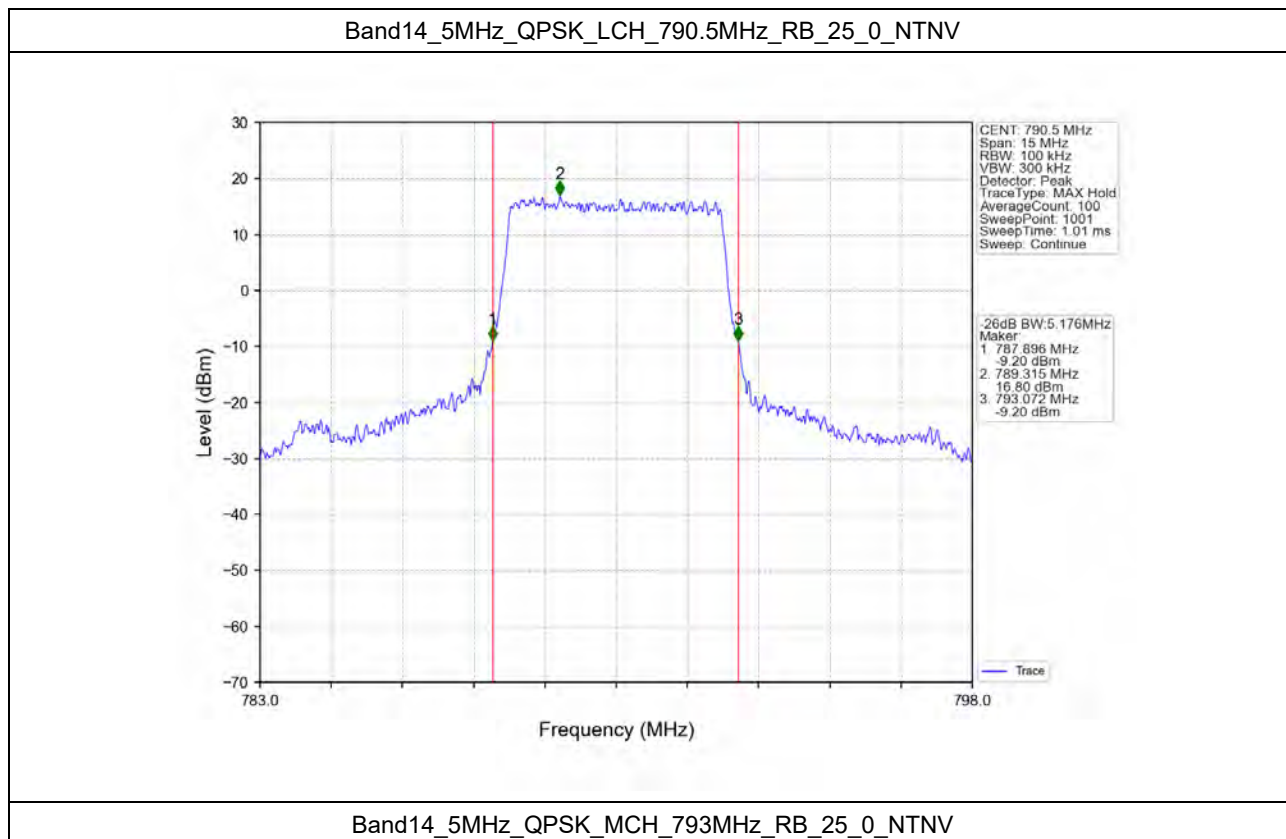
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3.2.2 Test Graph



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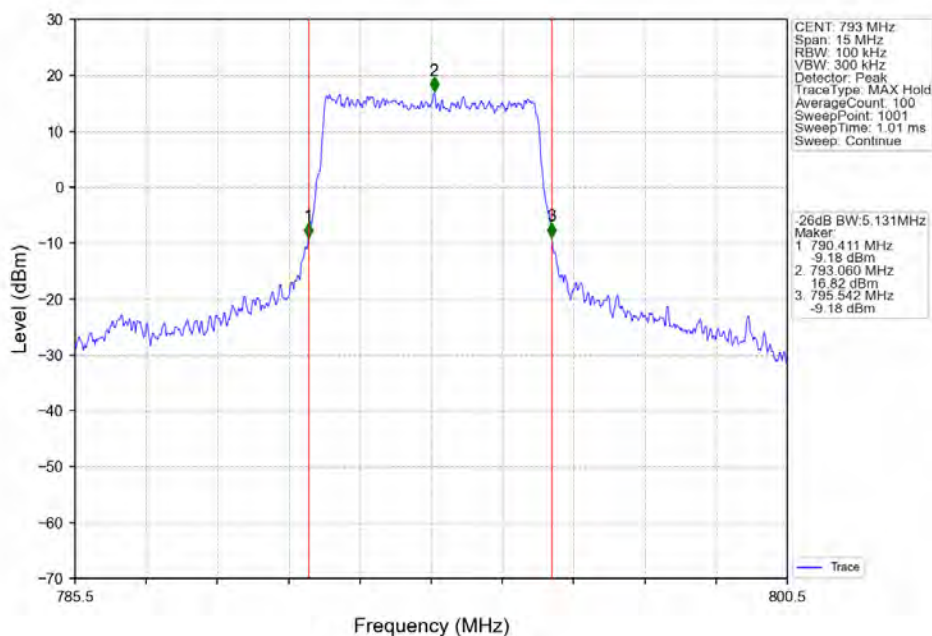
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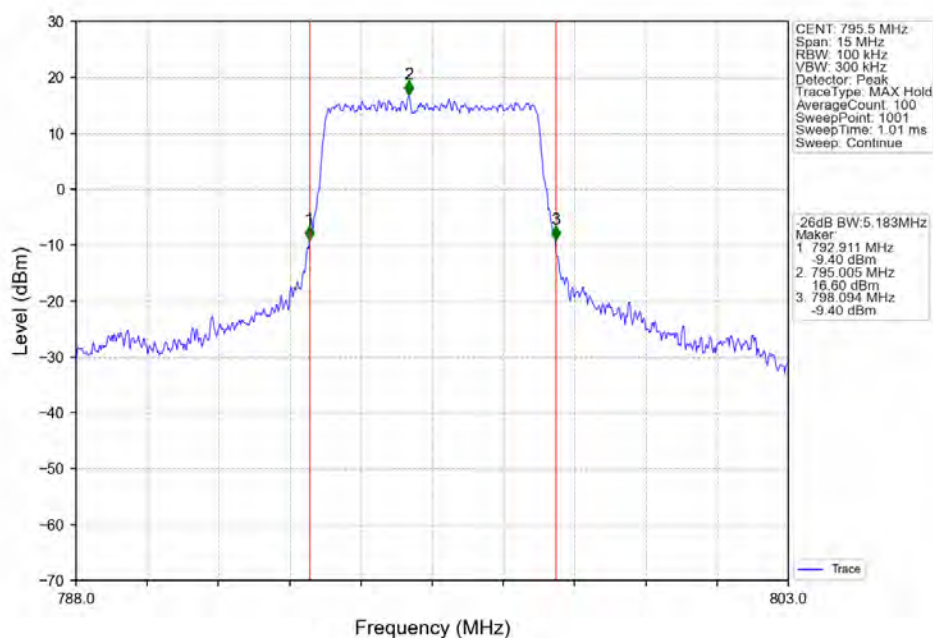
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Band14_5MHz_16QAM_LCH_790.5MHz_RB_25_0_NTNV



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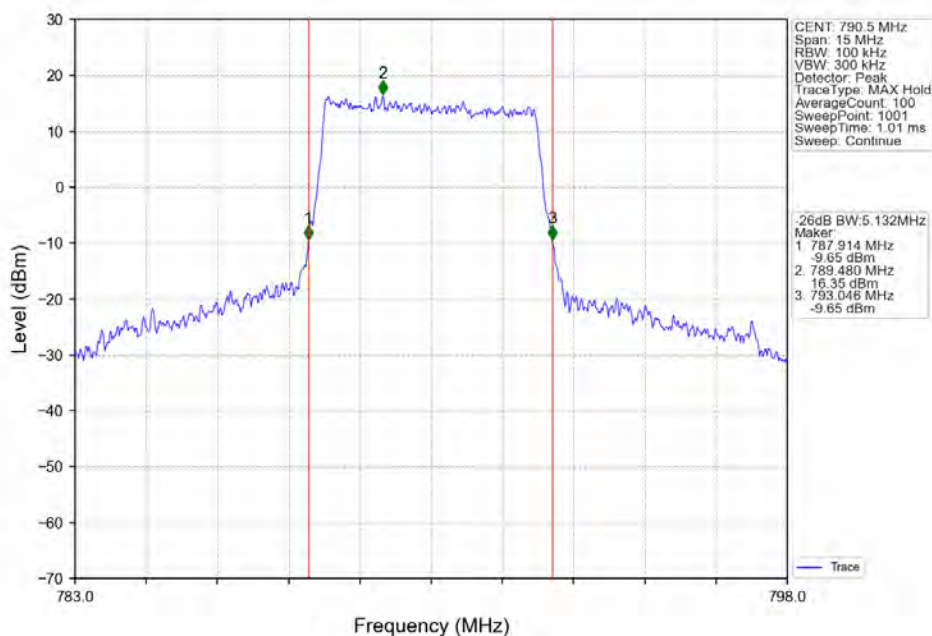
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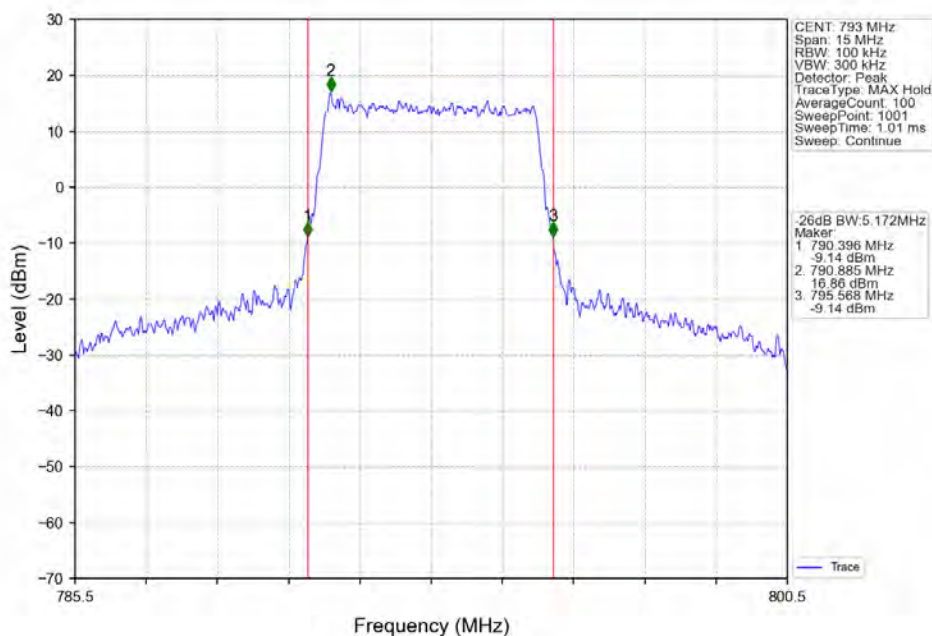
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Band14_5MHz_16QAM_MCH_793MHz_RB_25_0_NTNV



Band14_5MHz_16QAM_HCH_795.5MHz_RB_25_0_NTNV



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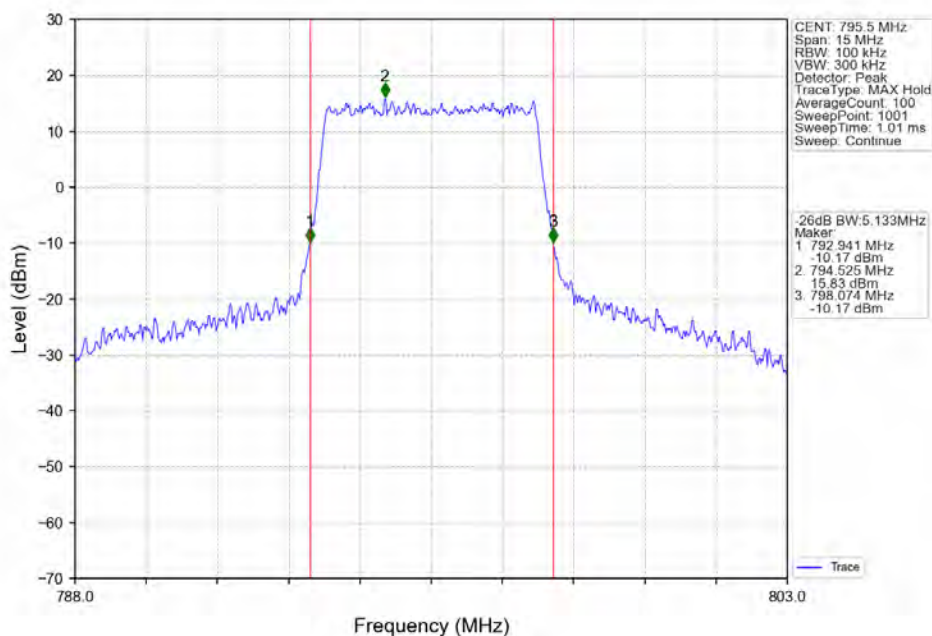
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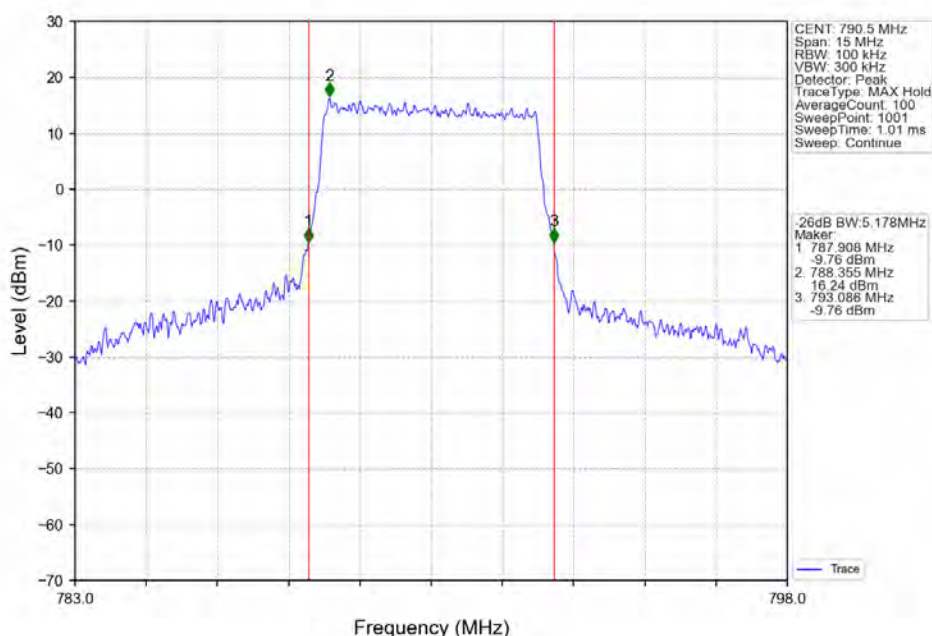
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Band14_5MHz_64QAM_MCH_793MHz_RB_25_0_NTNV



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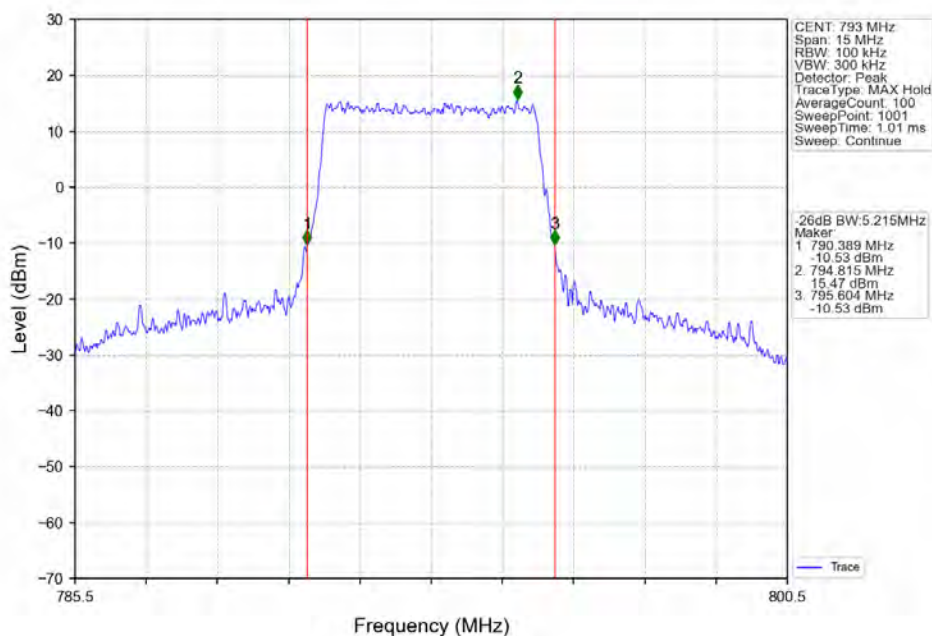
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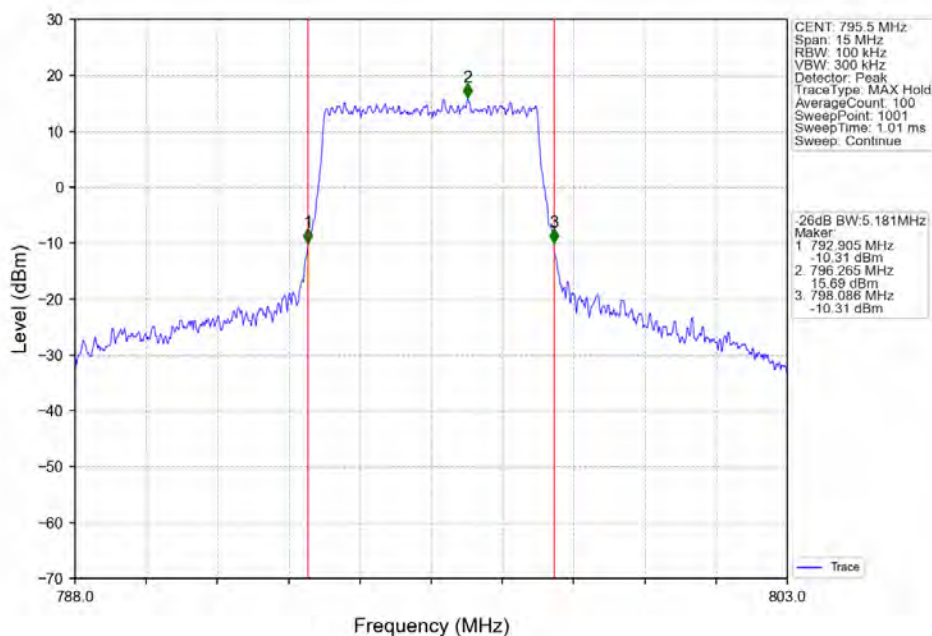
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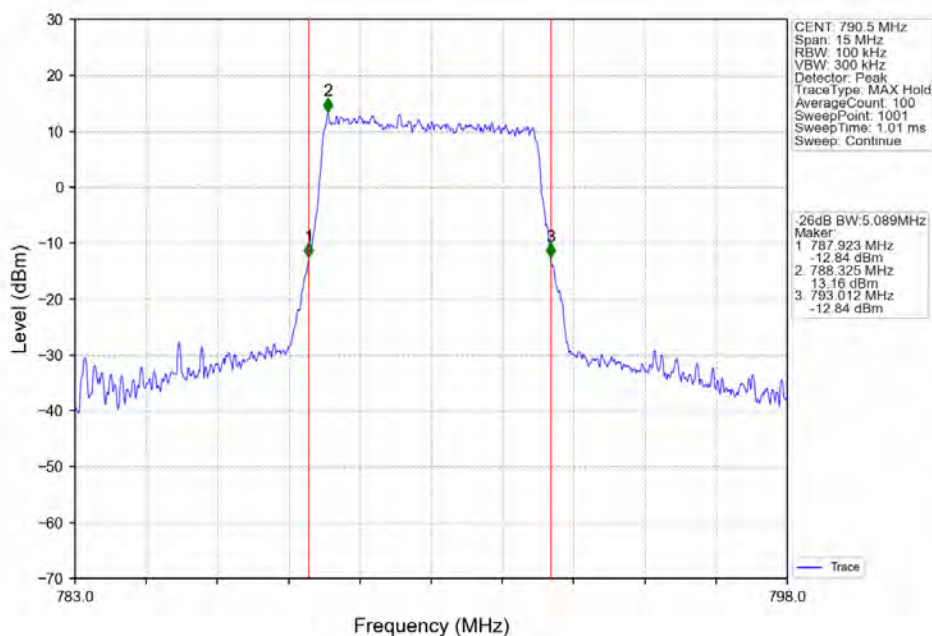
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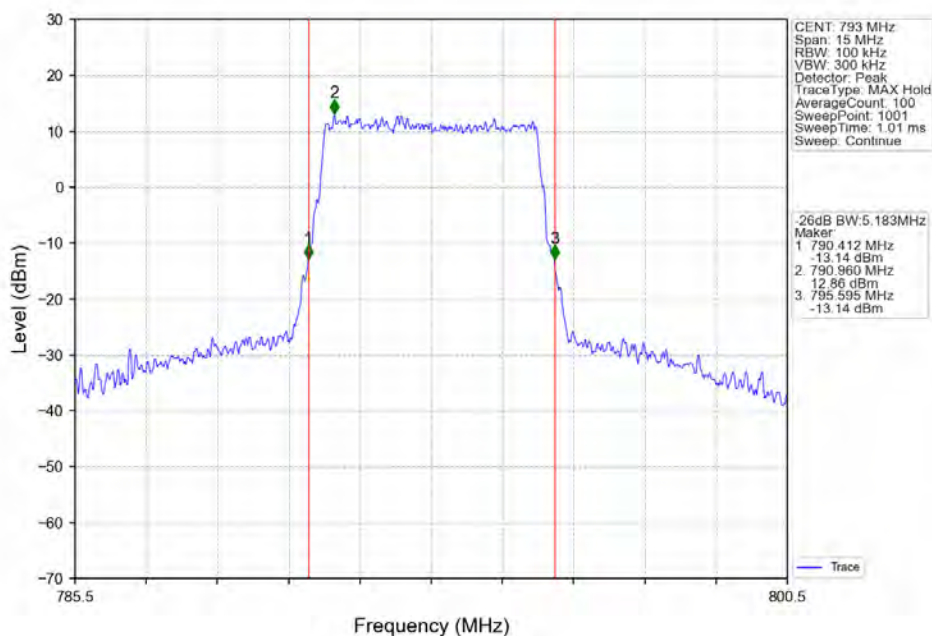
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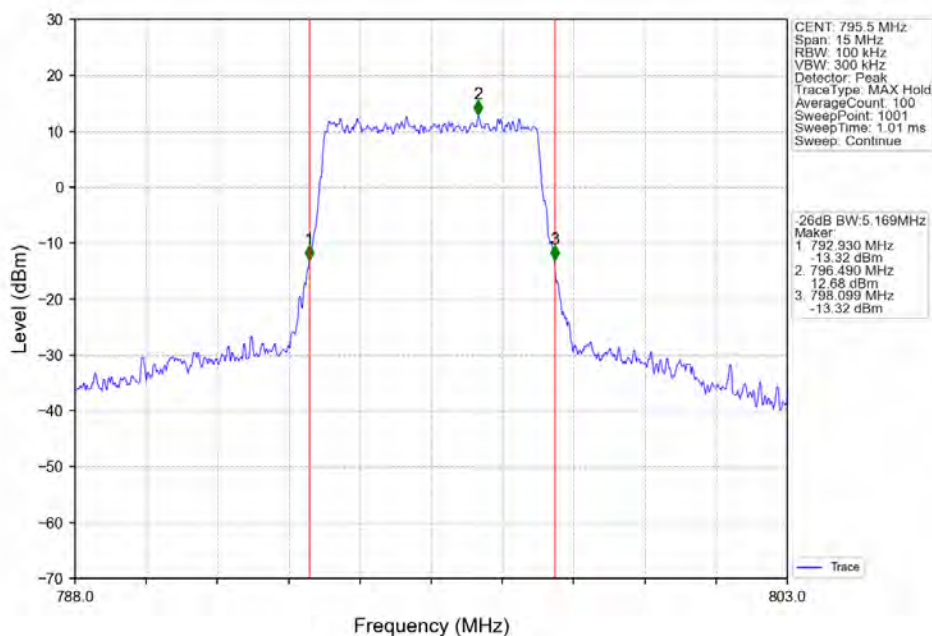
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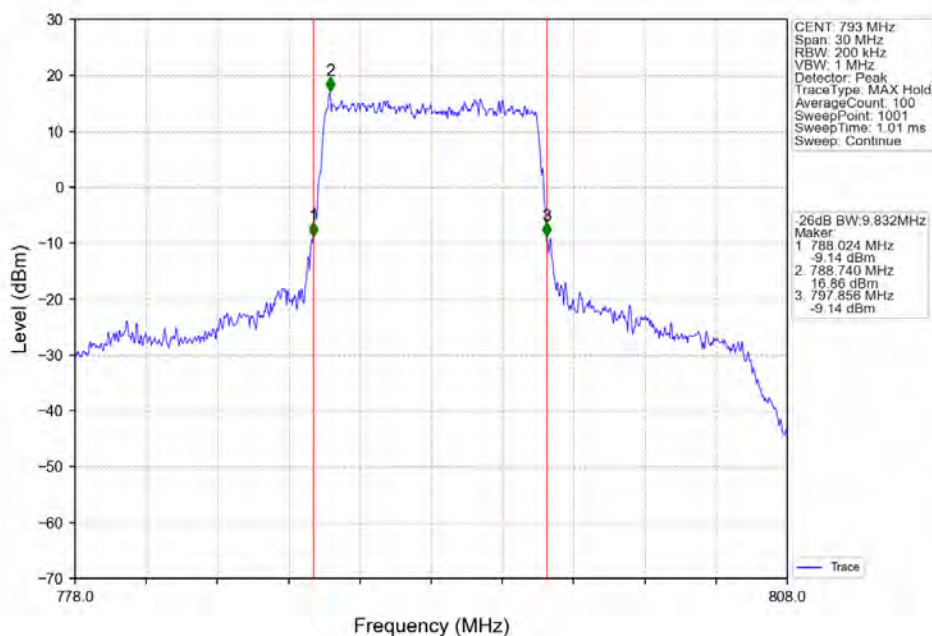
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Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV



Band14_10MHz_16QAM_MCH_793MHz_RB_50_0_NTNV



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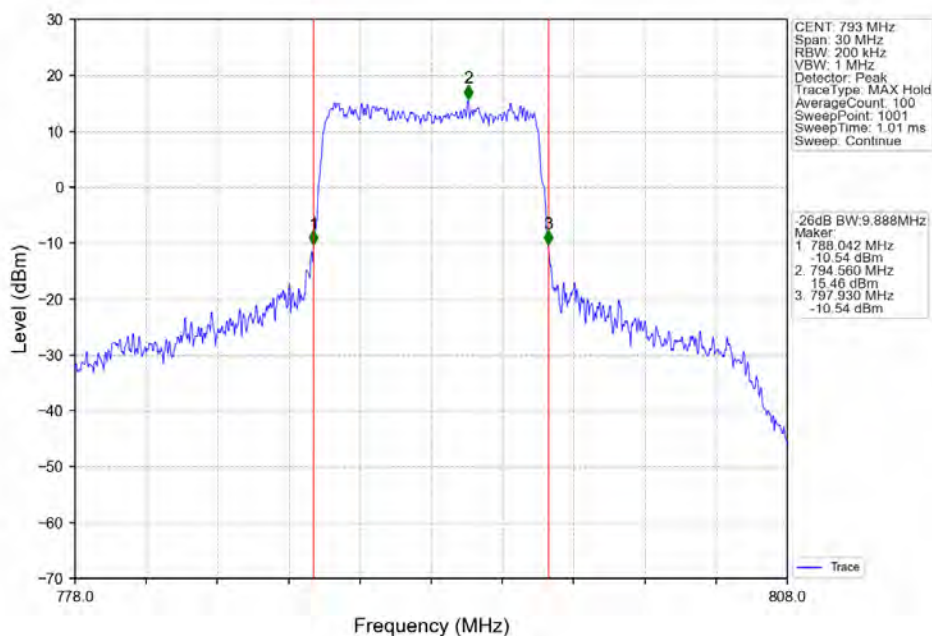
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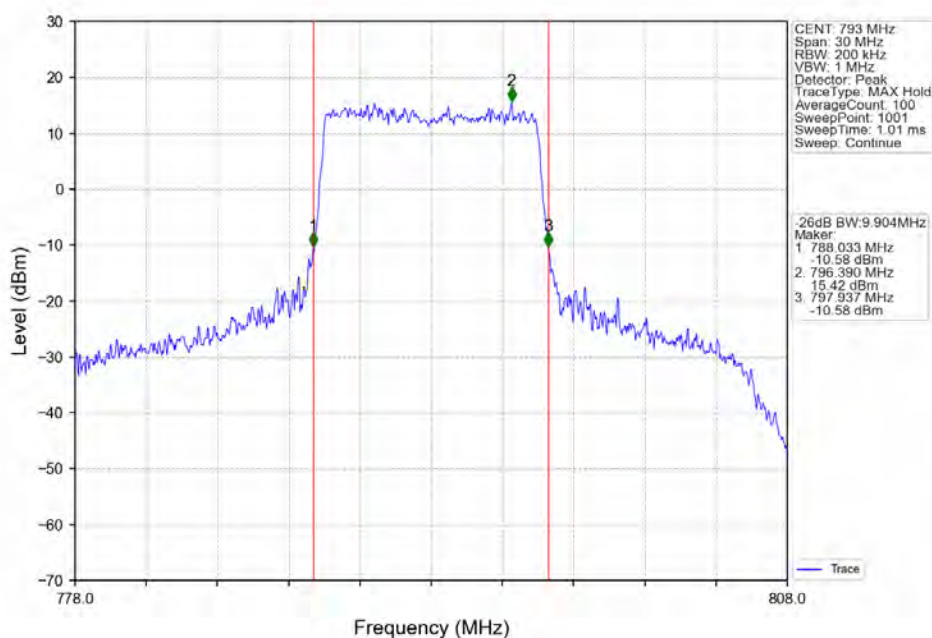
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Band14_10MHz_256QAM_MCH_793MHz_RB_50_0_NTNV



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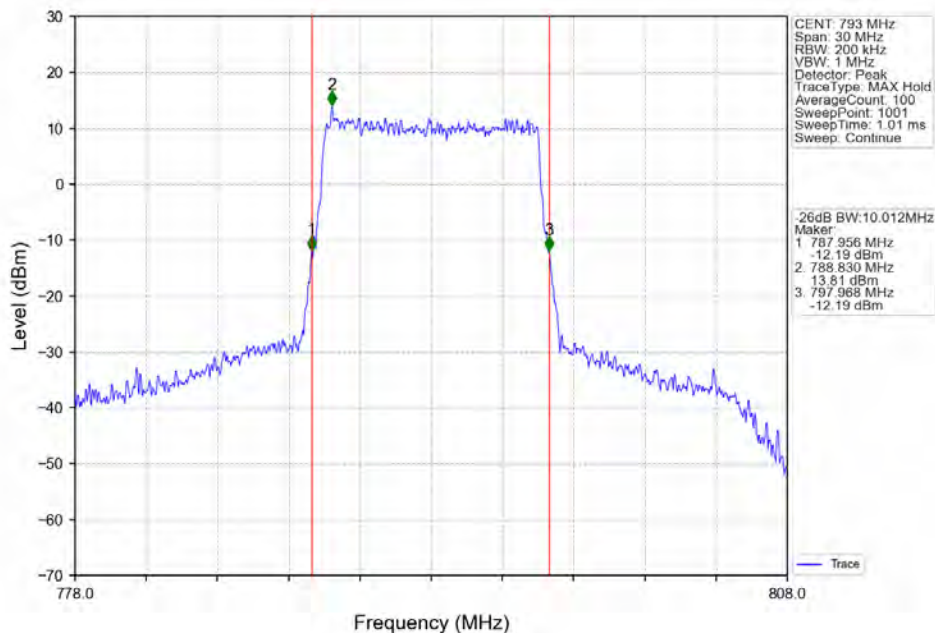
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4. Peak-Average Ratio

4.1 B14_5MHz

4.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	25	0	5.04	<=13	Pass
	793	25	0	5.40	<=13	Pass
	795.5	25	0	5.30	<=13	Pass
16QAM	790.5	25	0	5.92	<=13	Pass
	793	25	0	6.26	<=13	Pass
	795.5	25	0	6.20	<=13	Pass
64QAM	790.5	25	0	5.92	<=13	Pass
	793	25	0	6.28	<=13	Pass
	795.5	25	0	6.20	<=13	Pass
256QAM	790.5	25	0	8.46	<=13	Pass
	793	25	0	7.18	<=13	Pass
	795.5	25	0	7.06	<=13	Pass



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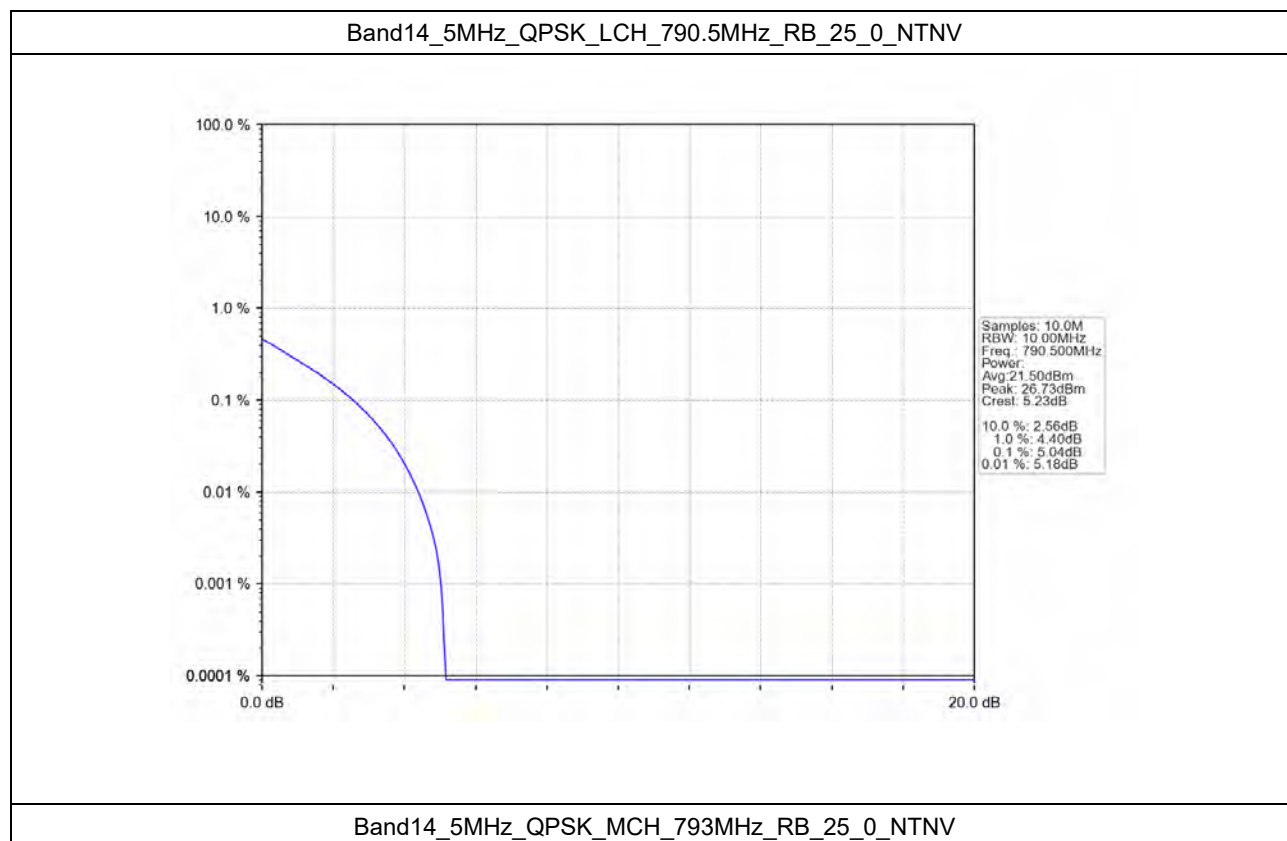
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4.1.2 Test Graph



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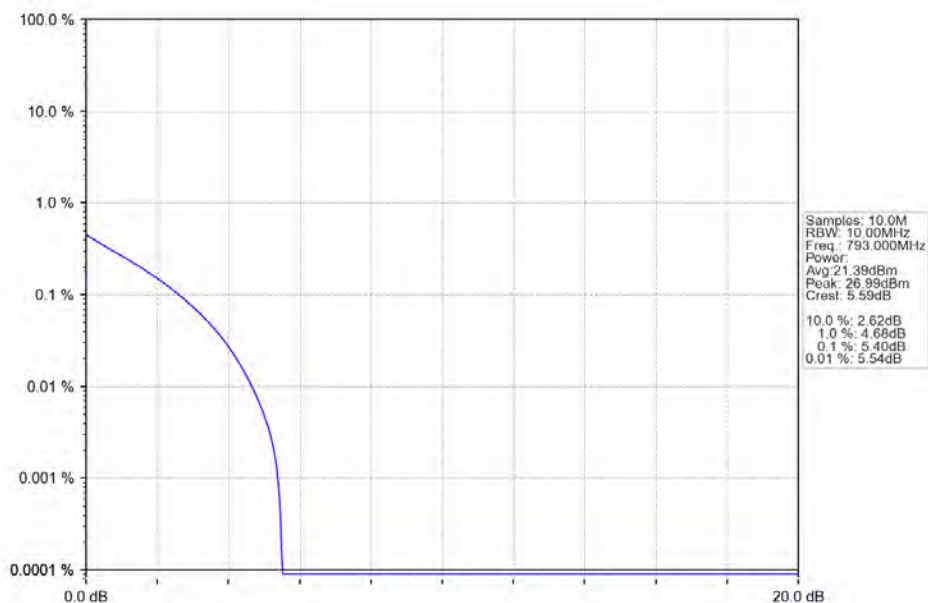
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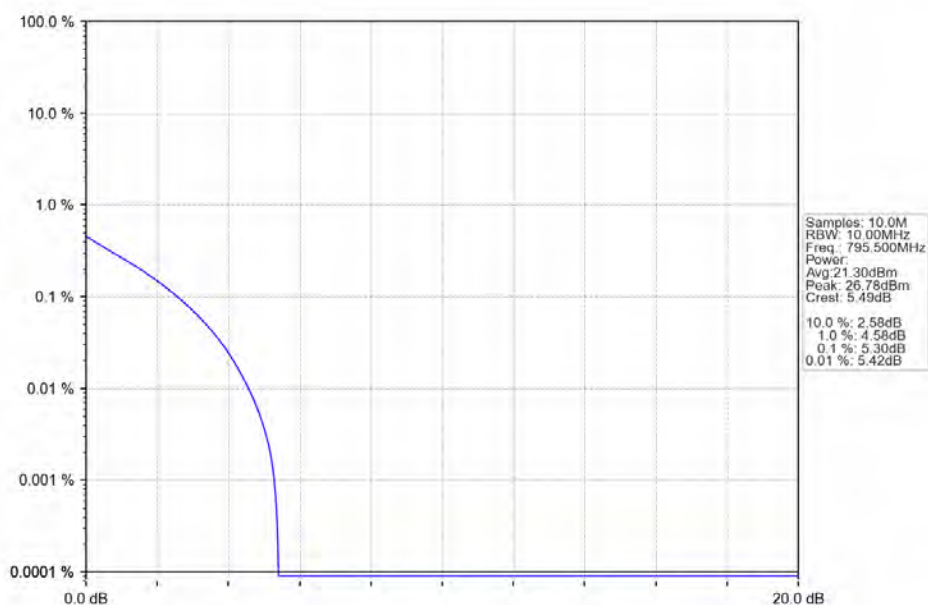
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Band14_5MHz_16QAM_LCH_790.5MHz_RB_25_0_NTNV



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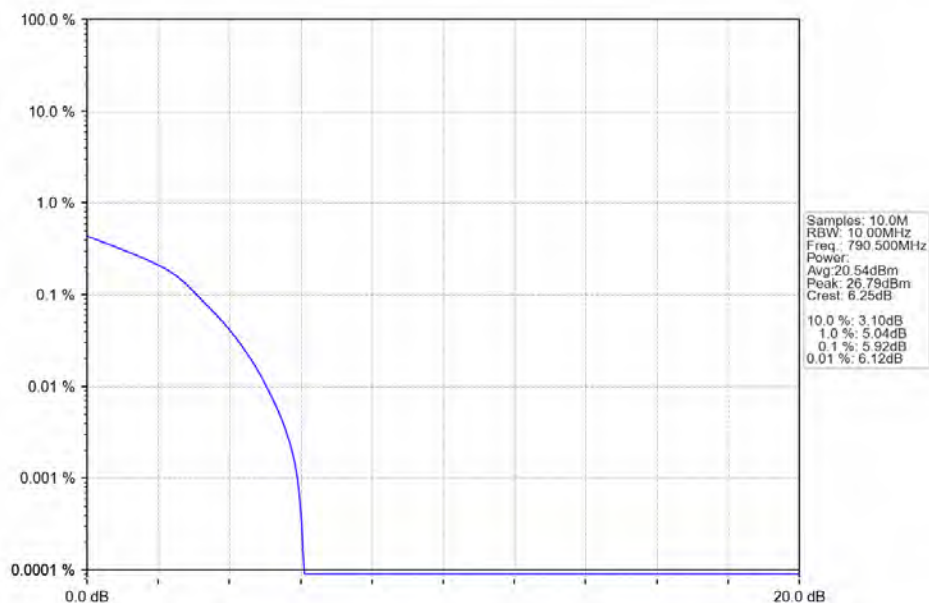
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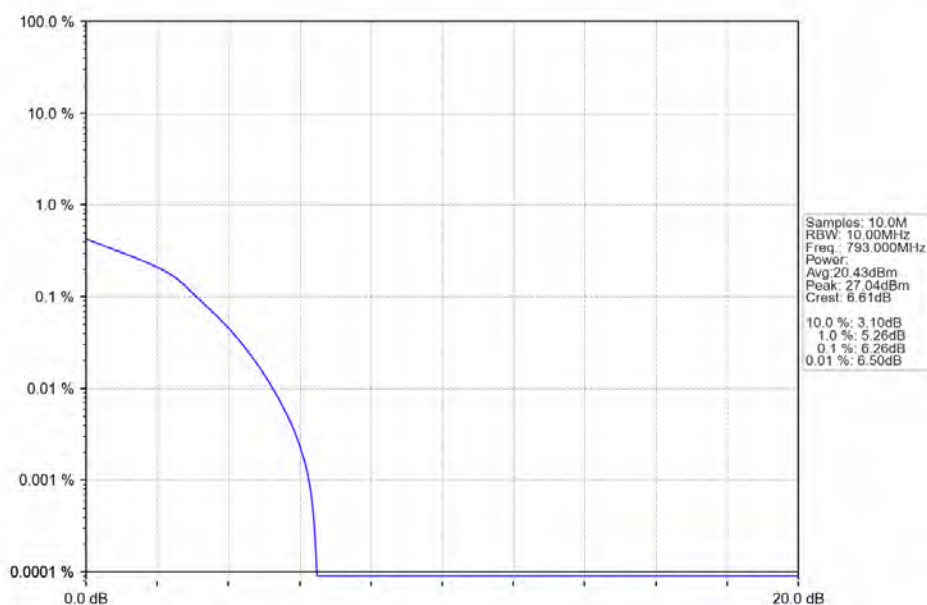
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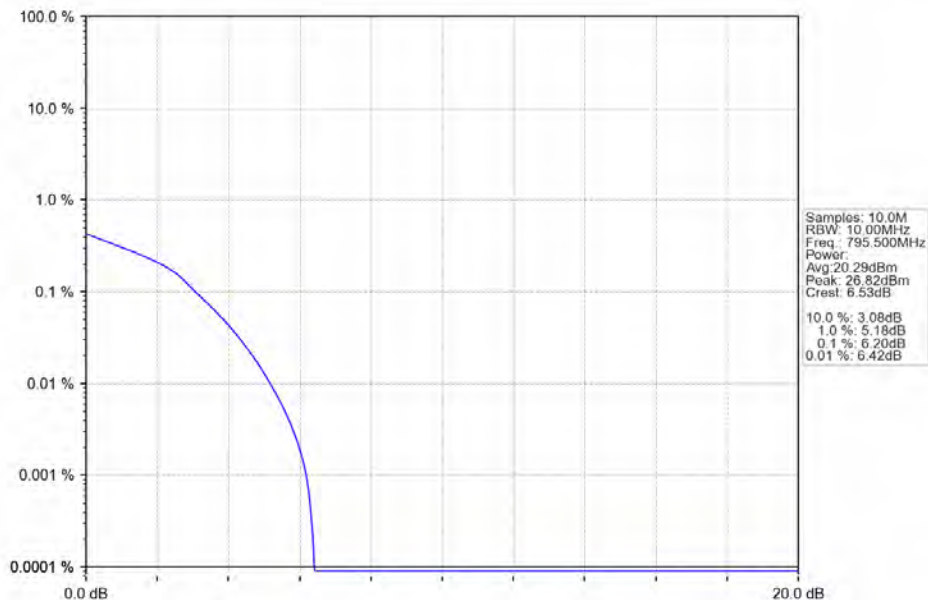
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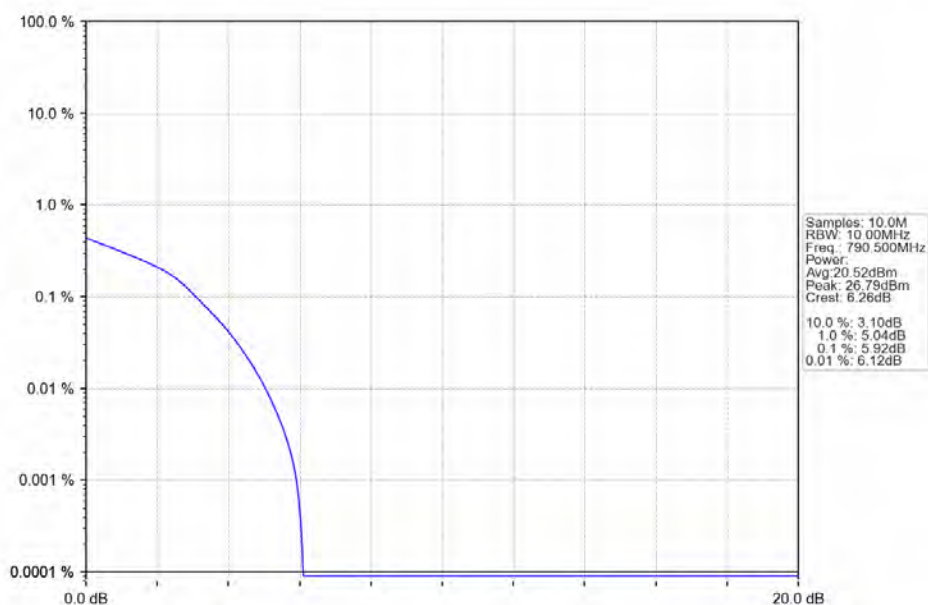
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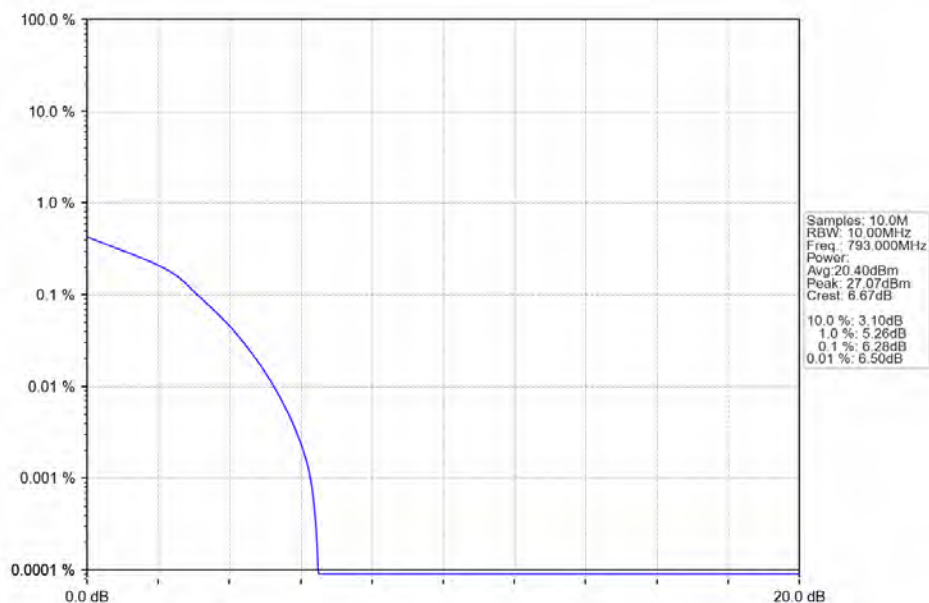
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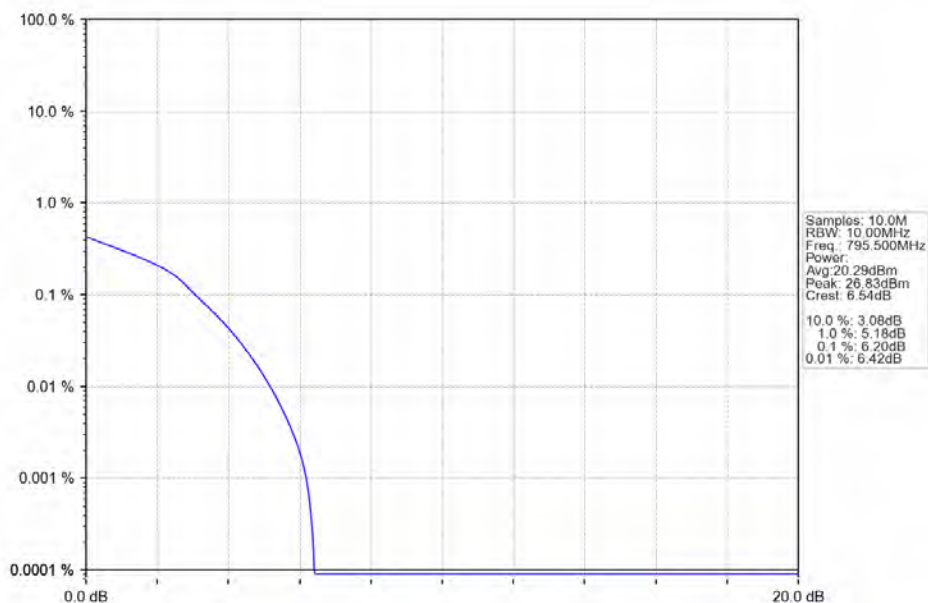
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Band14_5MHz_64QAM_HCH_795.5MHz_RB_25_0_NTNV



Band14_5MHz_256QAM_LCH_790.5MHz_RB_25_0_NTNV



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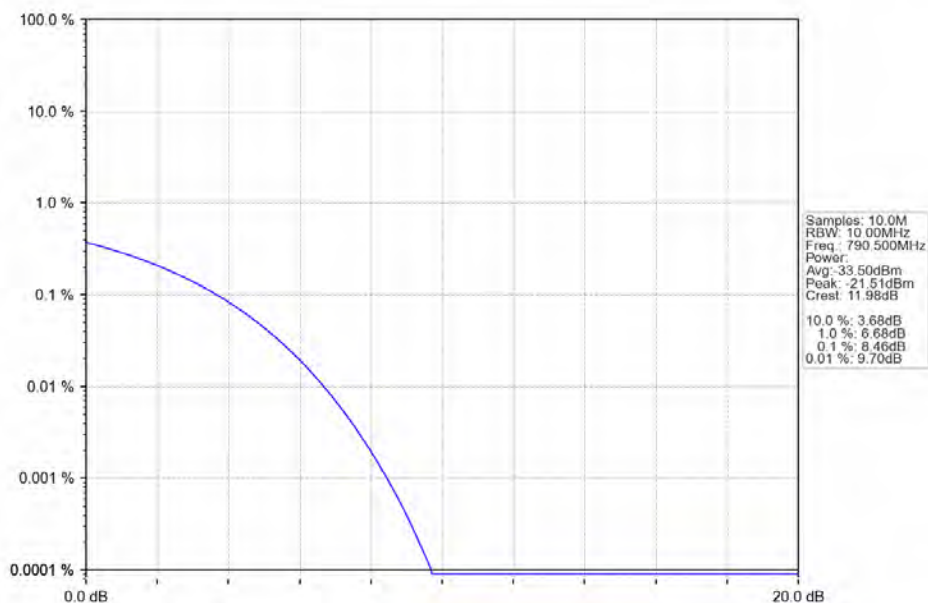
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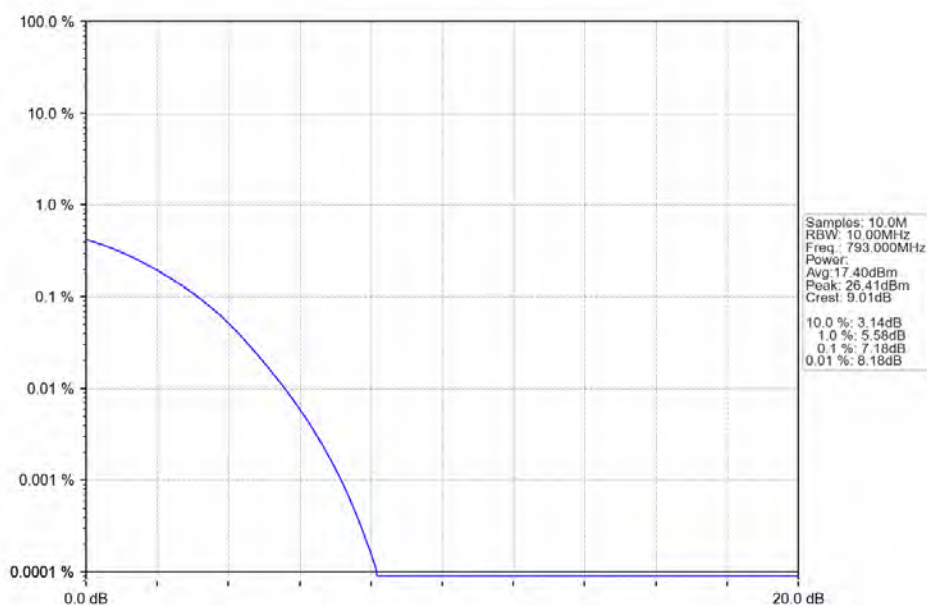
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Band14_5MHz_256QAM_HCH_795.5MHz_RB_25_0_NTNV



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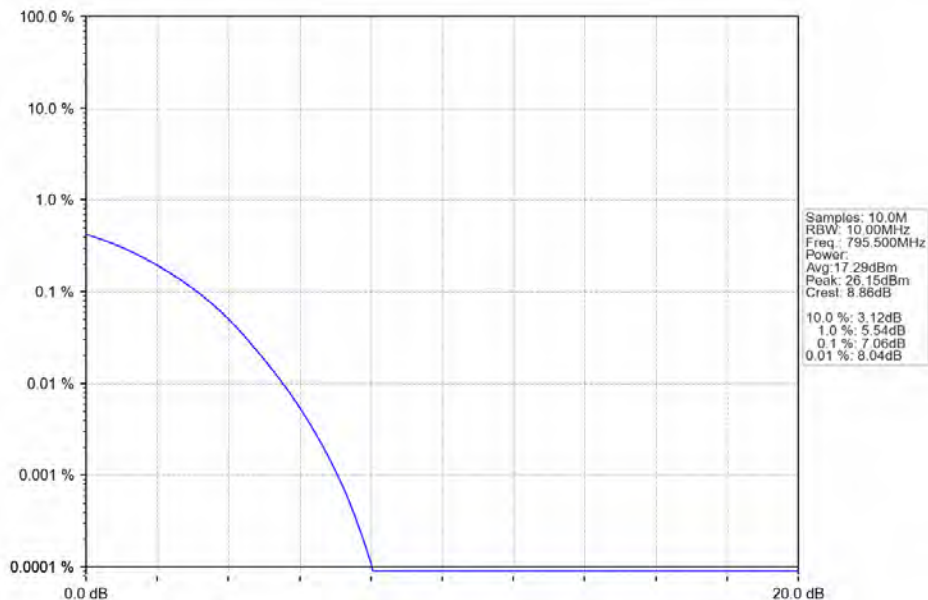
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4.2 B14_10MHz

4.2.1 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	5.48	<=13	Pass
16QAM	793	50	0	6.26	<=13	Pass
64QAM	793	50	0	6.26	<=13	Pass
256QAM	793	50	0	6.96	<=13	Pass



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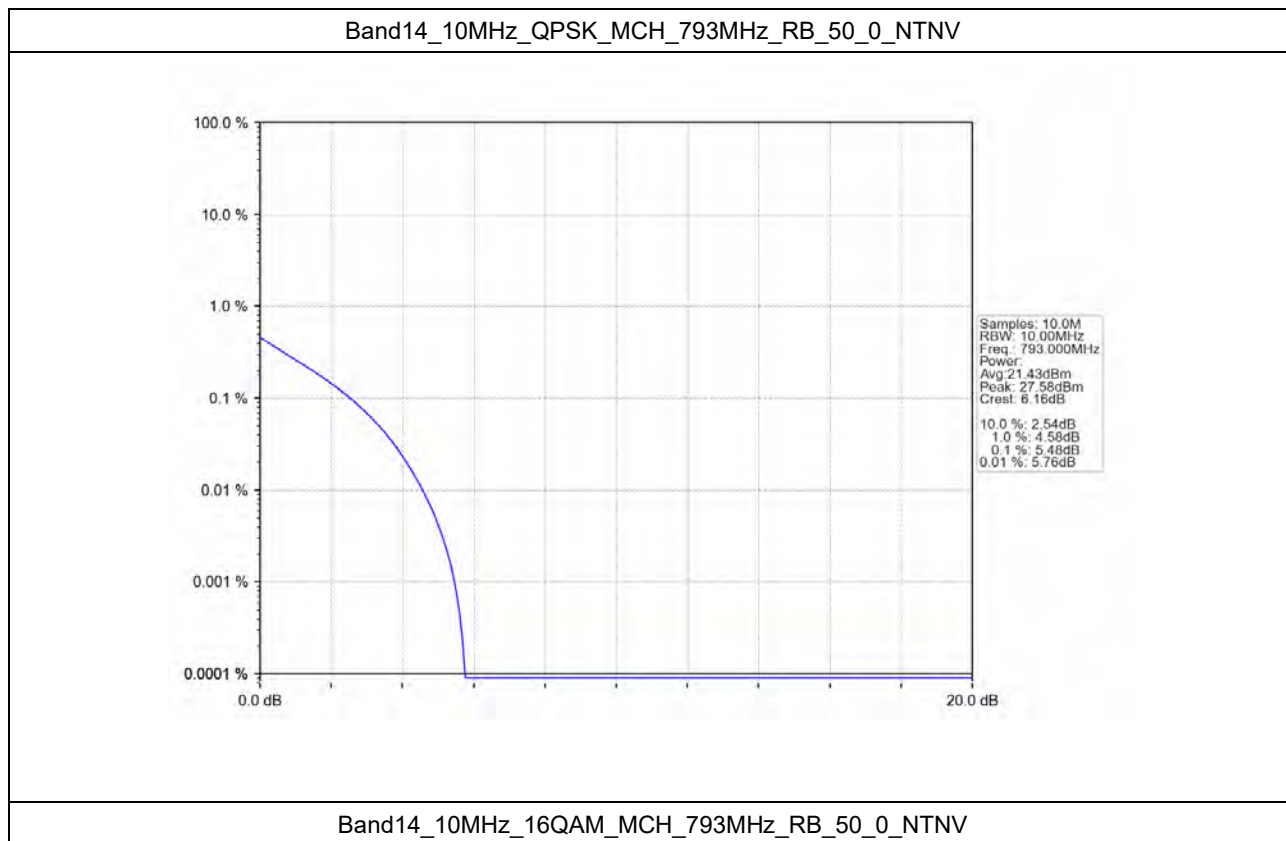
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4.2.2 Test Graph



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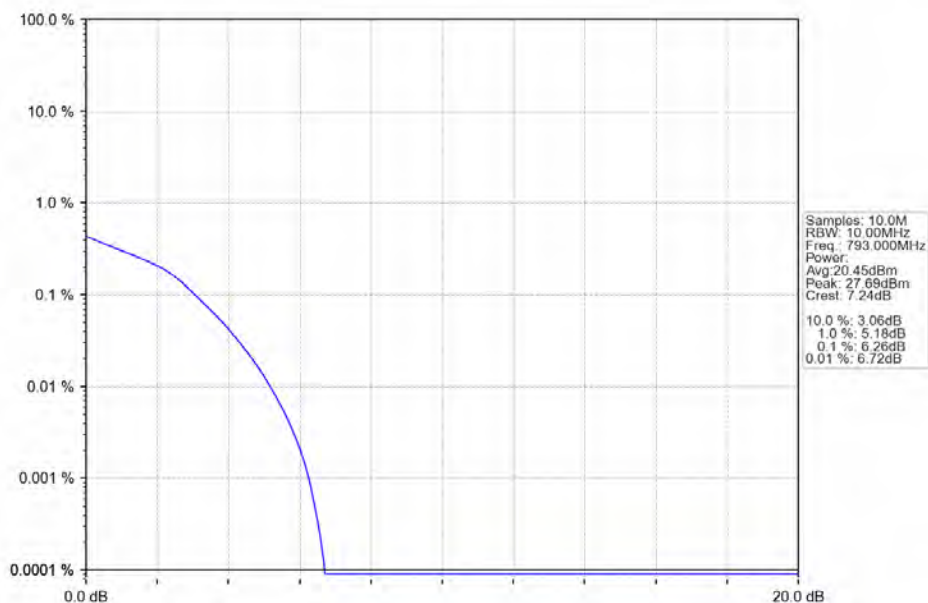
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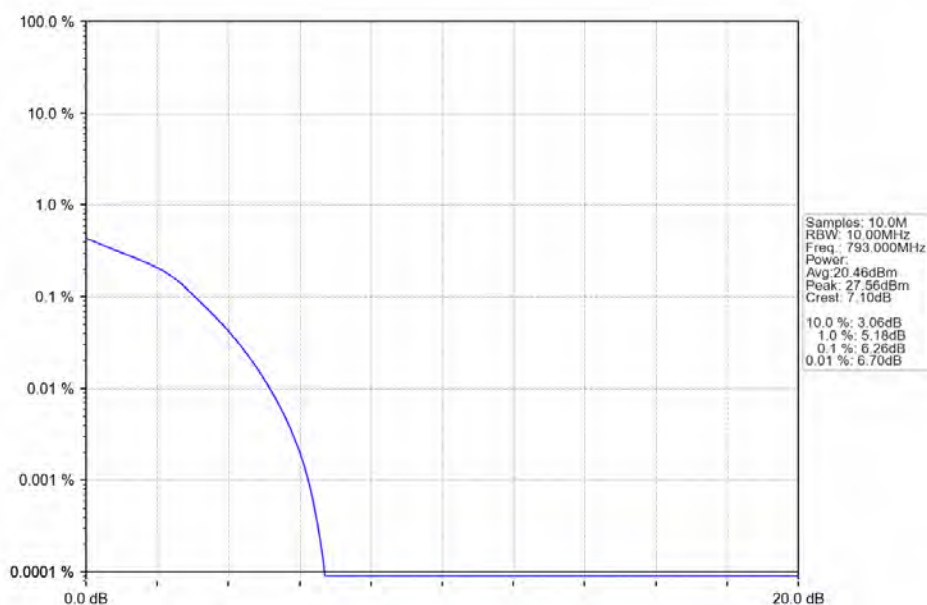
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Band14_10MHz_256QAM_MCH_793MHz_RB_50_0_NTNV



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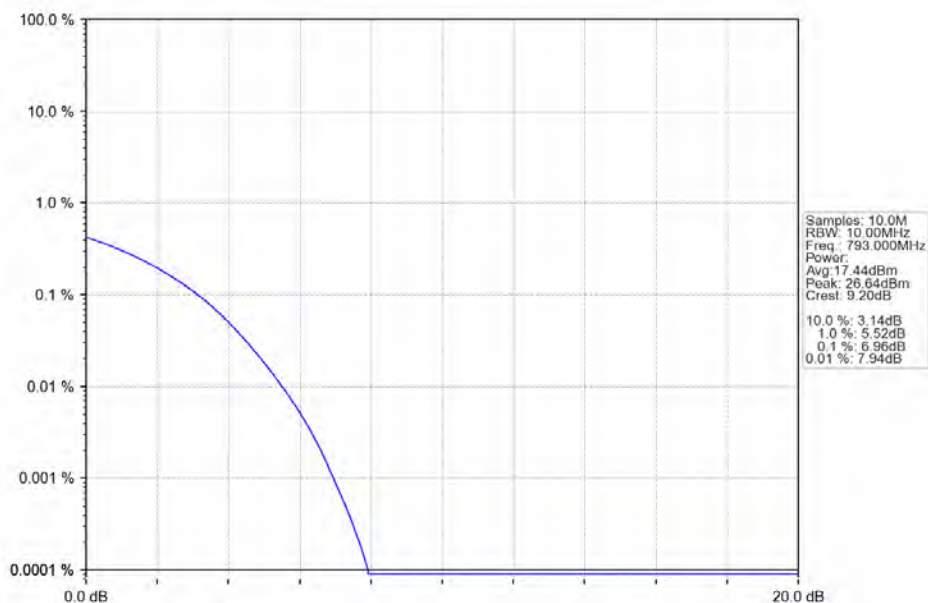
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5. Spurious Emission & Band Edges

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
	795.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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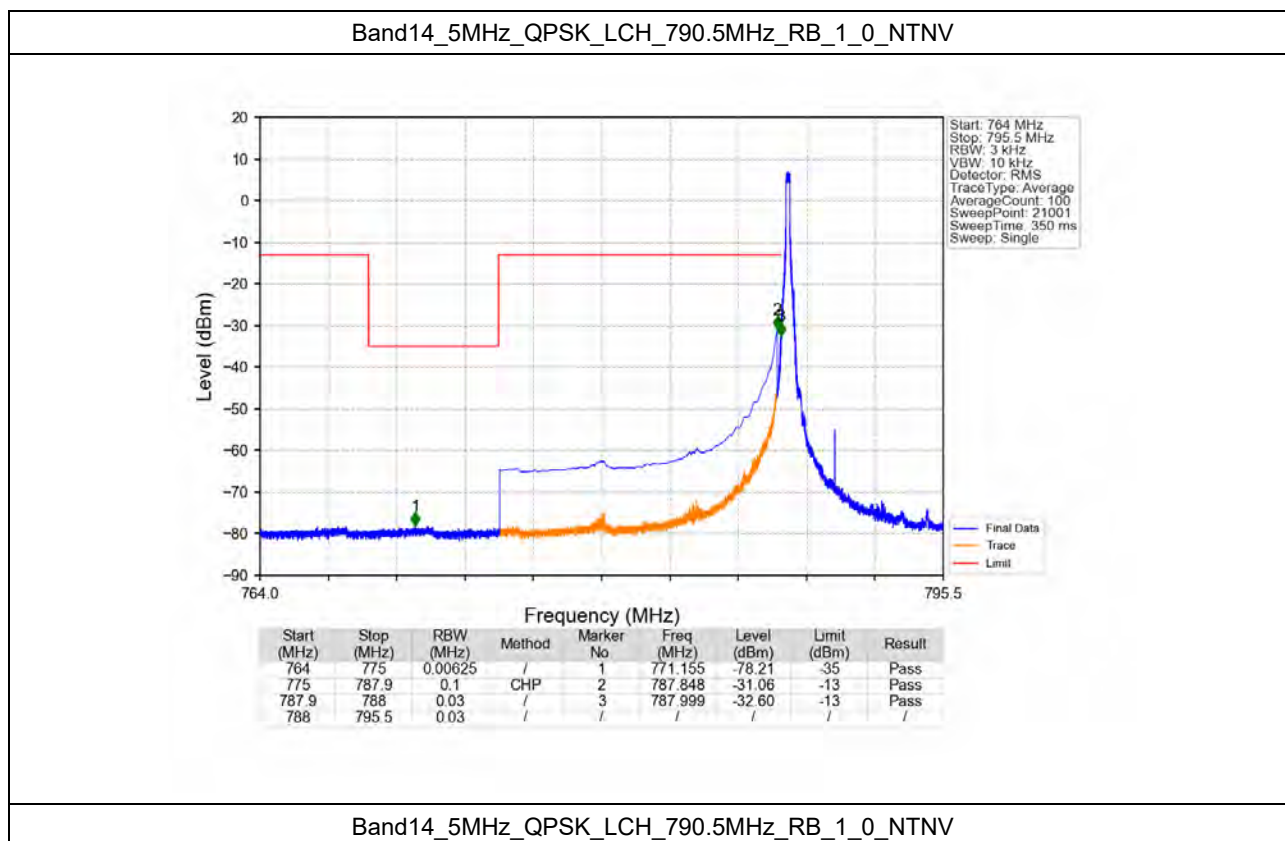
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5.1.2 Test Graph



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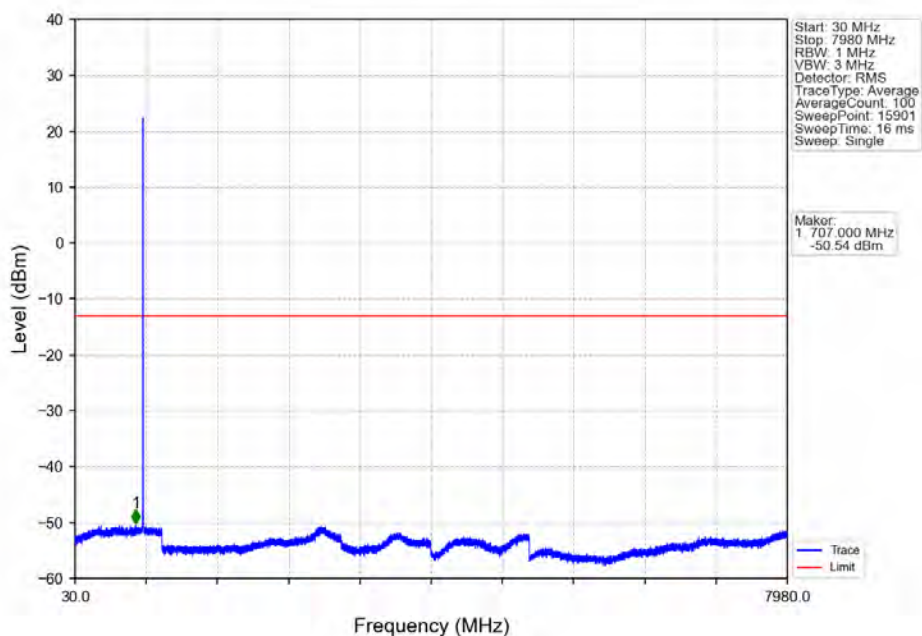
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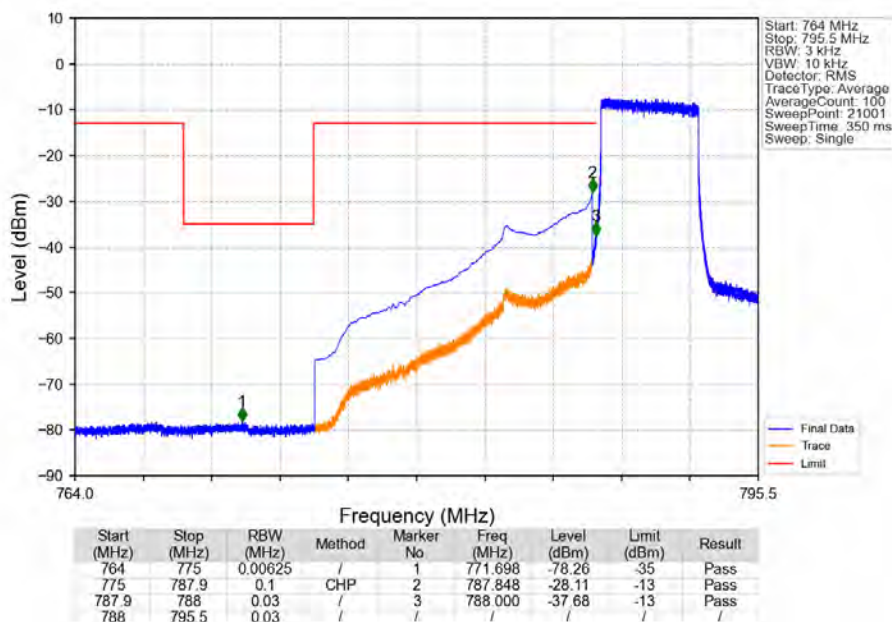
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Band14_5MHz_QPSK_LCH_790.5MHz_RB_25_0_NTNV



Band14_5MHz_QPSK_MCH_793MHz_RB_1_0_NTNV



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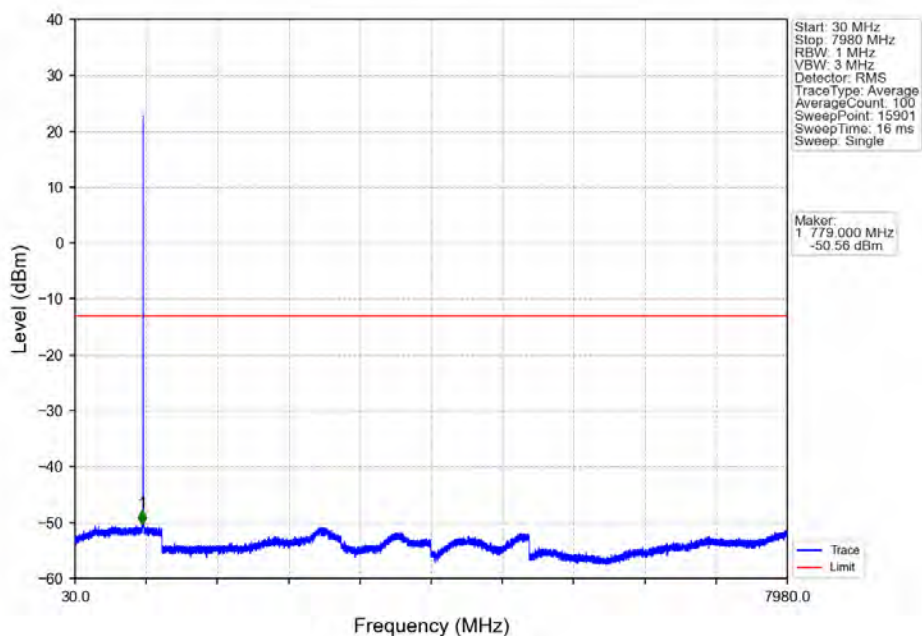
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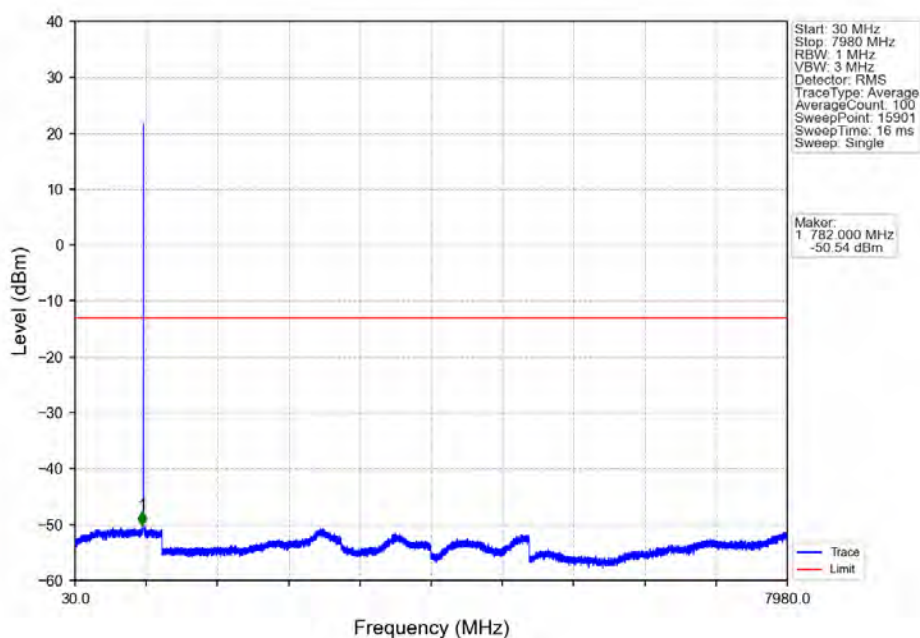
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Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_0_NTNV



Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_24_NTNV



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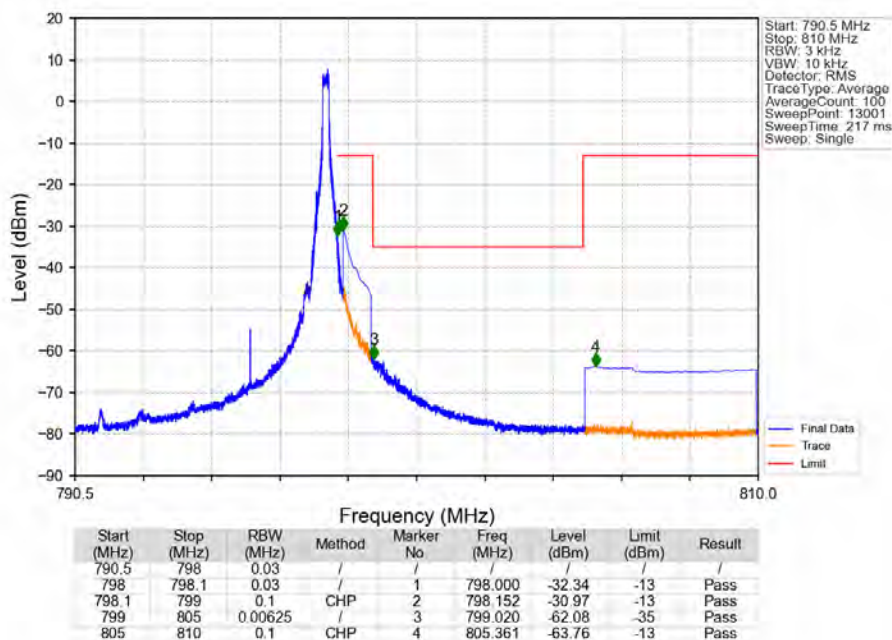
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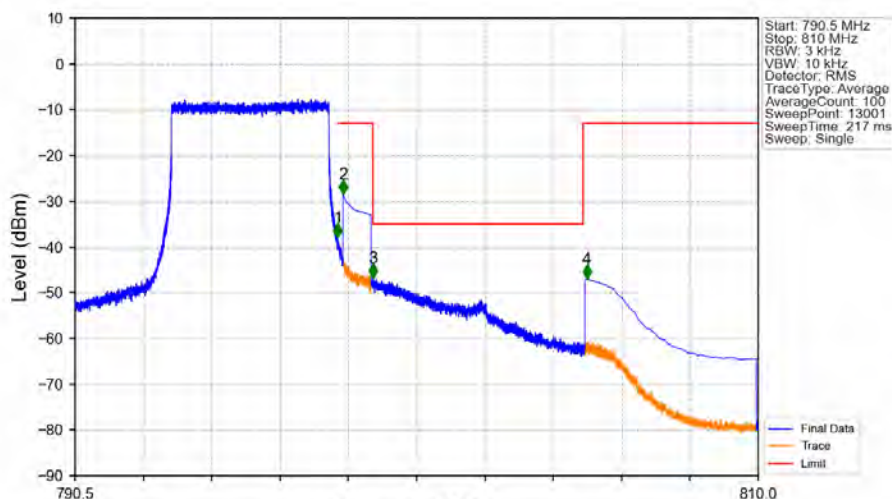
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Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	/	1	798.000	-37.93	-13	Pass
798	798.1	0.03	/	2	798.152	-28.48	-13	Pass
798.1	799	0.1	CHP	3	799.002	-46.76	-35	Pass
799	805	0.00625	/	4	805.106	-46.99	-13	Pass
805	810	0.1	CHP					



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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



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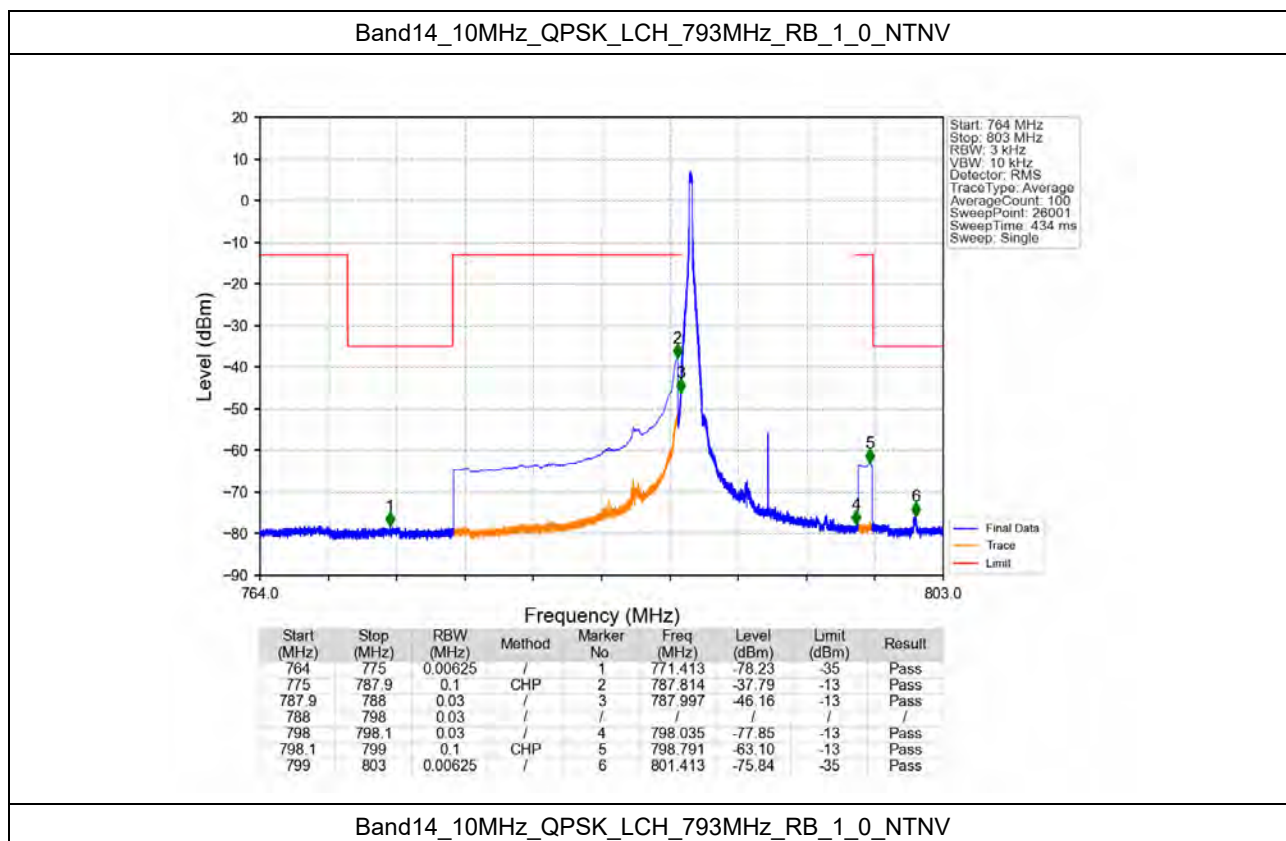
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5.2.2 Test Graph



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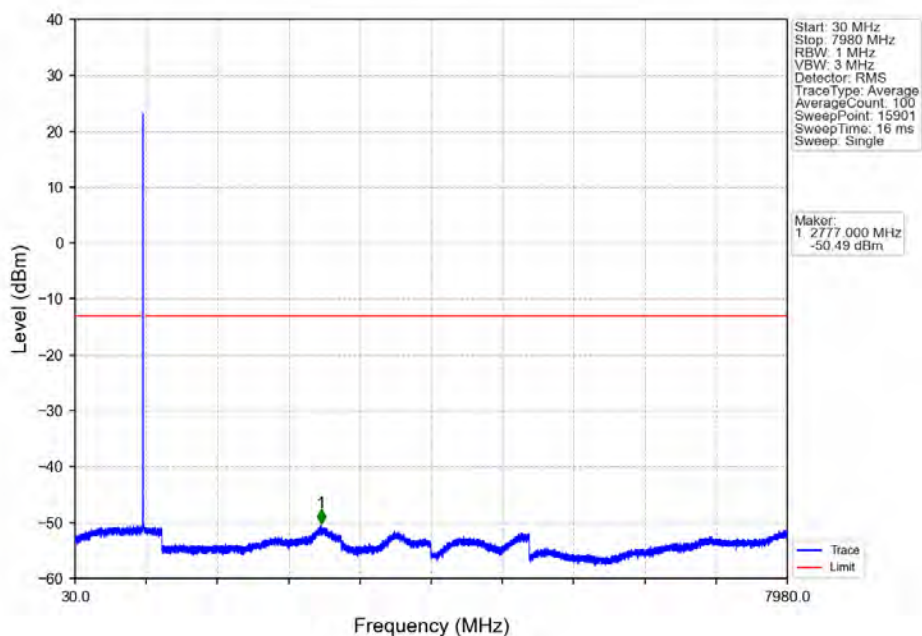
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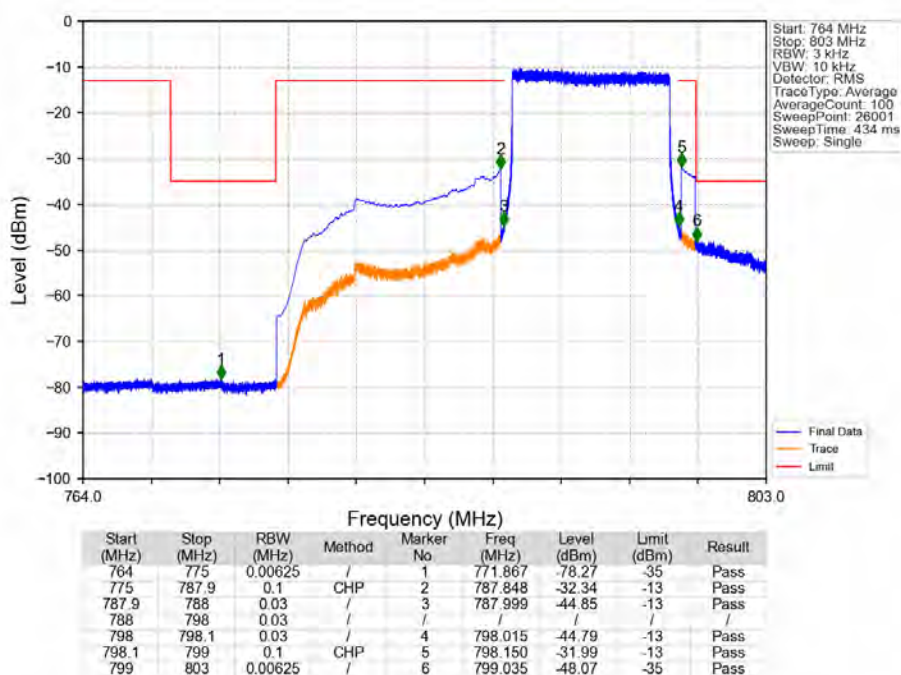
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Band14_10MHz_QPSK_LCH_793MHz_RB_50_0_NTNV



Band14_10MHz_QPSK_HCH_793MHz_RB_1_49_NTNV



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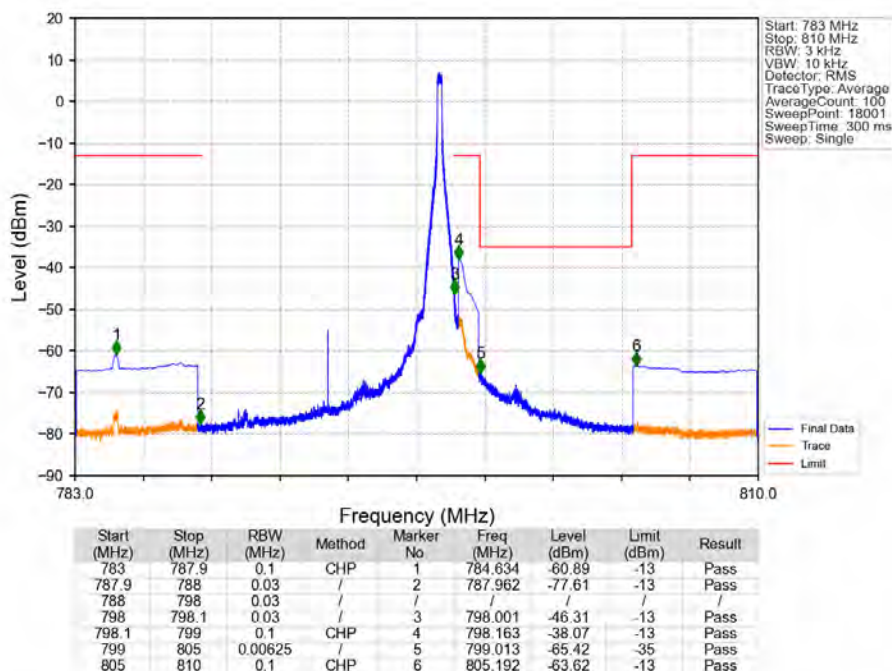
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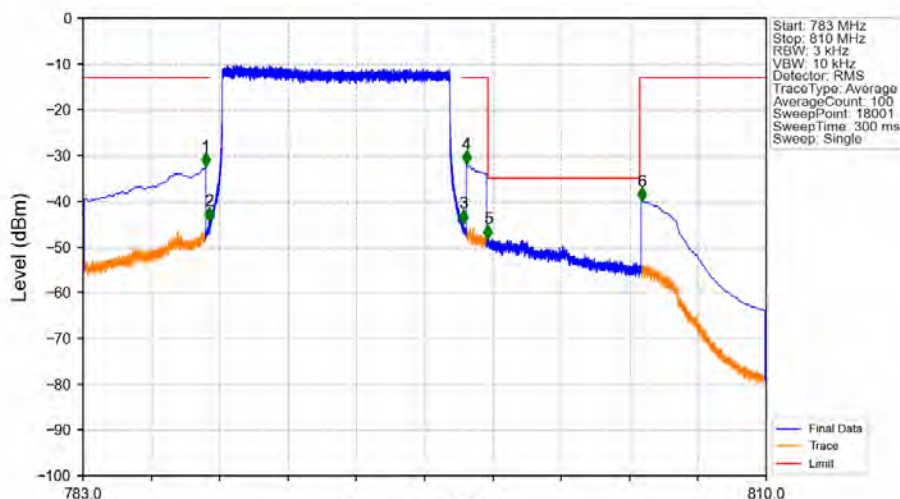
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Band14_10MHz_QPSK_HCH_793MHz_RB_50_0_NTNV



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	-32.46	-13	Pass
787.9	788	0.03	/	2	787.983	-44.36	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.047	-44.89	-13	Pass
798.1	799	0.1	CHP	4	798.152	-31.98	-13	Pass
799	805	0.00625	/	5	799.005	-48.25	-35	Pass
805	810	0.1	CHP	6	805.085	-40.03	-13	Pass



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6. Emission Mask

6.1 B14_5MHz

6.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Freq. (MHz)		Emission Mask (dBm)		Verdict
		Size	Offset	Start	Stop	Result	Limit	
QPSK	790.5	0	0	773	778	-64.13	-13	Pass
				778	785.5	-56.89	-14.26	Pass
				785.5	787.95	-21.30	-4.26	Pass
				787.95	793.05	20.74	20.74	Pass
				793.05	795.5	-61.08	-4.26	Pass
				795.5	803	-63.13	-14.26	Pass
				803	808	-63.95	-13	Pass
		1	13	773	778	-63.76	-13	Pass
				778	785.5	-59.64	-14.11	Pass
				785.5	787.95	-49.42	-4.11	Pass
				787.95	793.05	20.89	20.89	Pass
				793.05	795.5	-48.46	-4.11	Pass
				795.5	803	-59.31	-14.11	Pass
				803	808	-63.49	-13	Pass
		24	0	773	778	-64.07	-13	Pass
				778	785.5	-62.08	-14.19	Pass
				785.5	787.95	-58.08	-4.19	Pass
				787.95	793.05	20.81	20.81	Pass
				793.05	795.5	-23.27	-4.19	Pass
				795.5	803	-55.53	-14.19	Pass
				803	808	-63.48	-13	Pass
		12	0	773	778	-64.02	-13	Pass
				778	785.5	-38.32	-24.96	Pass
				785.5	787.95	-22.78	-14.96	Pass
				787.95	793.05	10.04	10.04	Pass
				793.05	795.5	-37.80	-14.96	Pass
				795.5	803	-50.84	-24.96	Pass



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			6	803	808	-63.51	-13	Pass
				773	778	-63.64	-13	Pass
				778	785.5	-43.71	-24.74	Pass
				785.5	787.95	-30.91	-14.74	Pass
				787.95	793.05	10.26	10.26	Pass
				793.05	795.5	-31.36	-14.74	Pass
				795.5	803	-45.76	-24.74	Pass
				803	808	-63.77	-13	Pass
			13	773	778	-63.96	-13	Pass
				778	785.5	-49.31	-24.96	Pass
				785.5	787.95	-36.26	-14.96	Pass
				787.95	793.05	10.04	10.04	Pass
				793.05	795.5	-22.22	-14.96	Pass
				795.5	803	-40.12	-24.96	Pass
				803	808	-62.94	-13	Pass
		25	0	773	778	-53.24	-13	Pass
				778	785.5	-35.19	-27.38	Pass
				785.5	787.95	-27.80	-17.38	Pass
				787.95	793.05	7.62	7.62	Pass
				793.05	795.5	-27.75	-17.38	Pass
				795.5	803	-35.76	-27.38	Pass
				803	808	-53.38	-13	Pass
	793	1	0	775.5	780.5	-63.54	-13	Pass
				780.5	788	-56.49	-14.84	Pass
				788	790.45	-23.20	-4.84	Pass
				790.45	795.55	20.16	20.16	Pass
				795.55	798	-60.13	-4.84	Pass
				798	805.5	-62.70	-14.84	Pass
				805.5	810.5	-63.78	-13	Pass
			13	775.5	780.5	-63.90	-13	Pass
				780.5	788	-58.13	-14.22	Pass
				788	790.45	-47.44	-4.22	Pass
				790.45	795.55	20.78	20.78	Pass
				795.55	798	-48.29	-4.22	Pass
				798	805.5	-59.31	-14.22	Pass
				805.5	810.5	-63.71	-13	Pass
			24	775.5	780.5	-63.81	-13	Pass



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				780.5	788	-61.64	-14.49	Pass
				788	790.45	-58.64	-4.49	Pass
				790.45	795.55	20.51	20.51	Pass
				795.55	798	-25.20	-4.49	Pass
				798	805.5	-56.78	-14.49	Pass
				805.5	810.5	-63.38	-13	Pass
		0		775.5	780.5	-62.23	-13	Pass
				780.5	788	-37.96	-25.21	Pass
				788	790.45	-23.87	-15.21	Pass
				790.45	795.55	9.79	9.79	Pass
				795.55	798	-38.24	-15.21	Pass
				798	805.5	-48.98	-25.21	Pass
				805.5	810.5	-63.61	-13	Pass
			6	775.5	780.5	-62.86	-13	Pass
				780.5	788	-42.13	-25.19	Pass
				788	790.45	-32.03	-15.19	Pass
				790.45	795.55	9.81	9.81	Pass
				795.55	798	-33.22	-15.19	Pass
				798	805.5	-43.78	-25.19	Pass
			13	805.5	810.5	-63.49	-13	Pass
				775.5	780.5	-63.27	-13	Pass
				780.5	788	-46.68	-25.27	Pass
				788	790.45	-37.42	-15.27	Pass
				790.45	795.55	9.73	9.73	Pass
				795.55	798	-23.65	-15.27	Pass
			25	798	805.5	-37.74	-25.27	Pass
				805.5	810.5	-62.99	-13	Pass
				775.5	780.5	-52.33	-13	Pass
				780.5	788	-35.52	-27.81	Pass
				788	790.45	-24.64	-17.81	Pass
				790.45	795.55	7.19	7.19	Pass
795.5	1	0		795.55	798	-27.64	-17.81	Pass
				798	805.5	-34.49	-27.81	Pass
				805.5	810.5	-54.10	-13	Pass
				778	783	-63.63	-13	Pass
				783	790.5	-55.54	-14.35	Pass
				790.5	792.95	-20.53	-4.35	Pass



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				792.95	798.05	20.65	20.65	Pass
				798.05	800.5	-58.93	-4.35	Pass
				800.5	808	-63.11	-14.35	Pass
				808	813	-64.09	-13	Pass
			13	778	783	-63.71	-13	Pass
				783	790.5	-59.93	-14.33	Pass
				790.5	792.95	-50.28	-4.33	Pass
				792.95	798.05	20.67	20.67	Pass
				798.05	800.5	-46.60	-4.33	Pass
				800.5	808	-61.40	-14.33	Pass
				808	813	-64.06	-13	Pass
				778	783	-63.70	-13	Pass
			24	783	790.5	-62.66	-14.44	Pass
				790.5	792.95	-60.03	-4.44	Pass
				792.95	798.05	20.56	20.56	Pass
				798.05	800.5	-25.56	-4.44	Pass
				800.5	808	-53.22	-14.44	Pass
				808	813	-63.71	-13	Pass
			12	778	783	-62.15	-13	Pass
				783	790.5	-39.65	-25.41	Pass
				790.5	792.95	-22.23	-15.41	Pass
				792.95	798.05	9.59	9.59	Pass
				798.05	800.5	-36.80	-15.41	Pass
				800.5	808	-48.60	-25.41	Pass
				808	813	-64.26	-13	Pass
			6	778	783	-63.06	-13	Pass
				783	790.5	-42.39	-25.35	Pass
				790.5	792.95	-32.74	-15.35	Pass
				792.95	798.05	9.65	9.65	Pass
				798.05	800.5	-32.24	-15.35	Pass
				800.5	808	-44.56	-25.35	Pass
				808	813	-63.89	-13	Pass
			13	778	783	-63.41	-13	Pass
				783	790.5	-47.36	-24.78	Pass
				790.5	792.95	-37.71	-14.78	Pass
				792.95	798.05	10.22	10.22	Pass
				798.05	800.5	-22.22	-14.78	Pass



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		25	0	800.5	808	-40.78	-24.78	Pass
				808	813	-63.81	-13	Pass
				778	783	-51.63	-13	Pass
				783	790.5	-37.53	-28.5	Pass
				790.5	792.95	-27.28	-18.5	Pass
				792.95	798.05	6.50	6.5	Pass
				798.05	800.5	-25.45	-18.5	Pass
				800.5	808	-36.31	-28.5	Pass
				808	813	-62.49	-13	Pass



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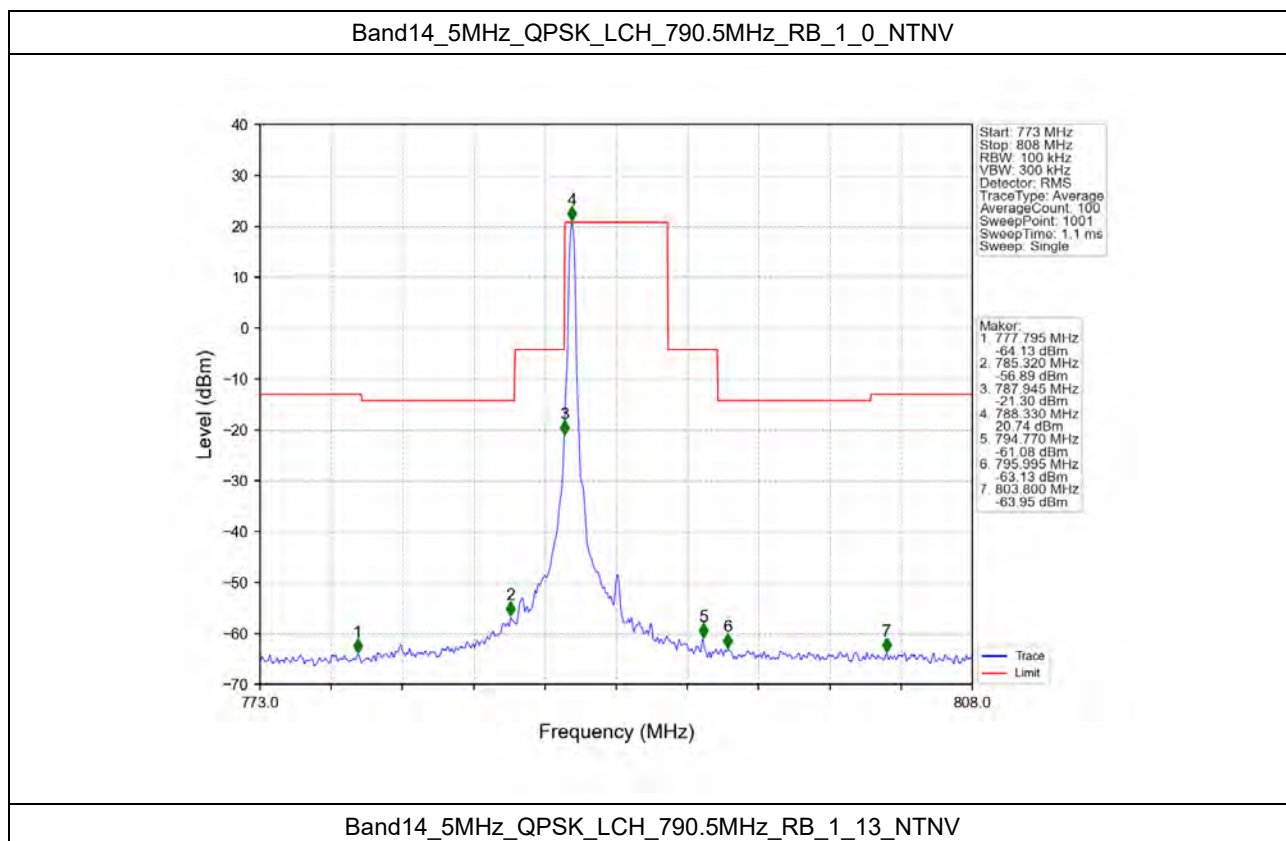
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6.1.2 Test Graph



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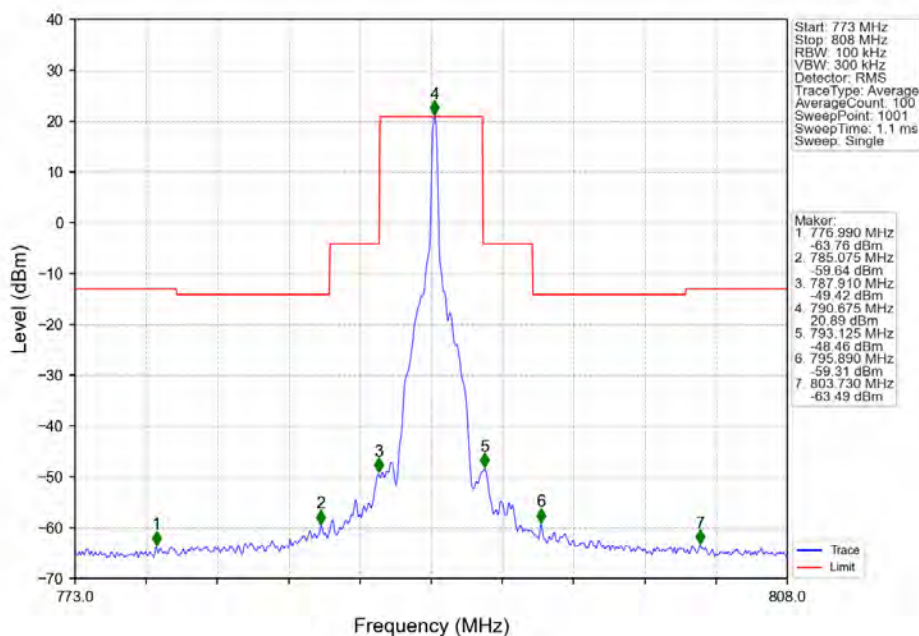
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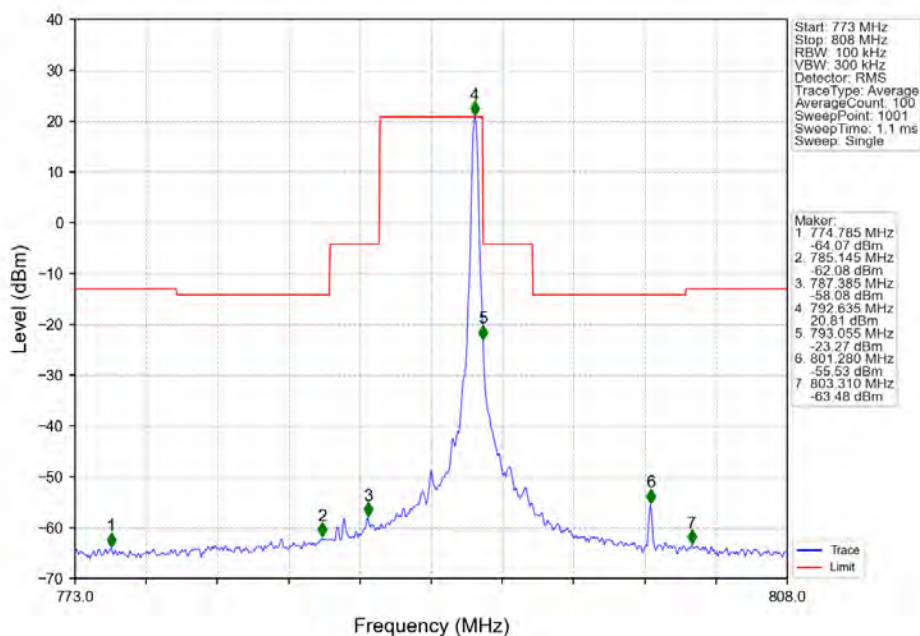
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Band14_5MHz_QPSK_LCH_790.5MHz_RB_1_24_NTNV



Band14_5MHz_QPSK_LCH_790.5MHz_RB_12_0_NTNV



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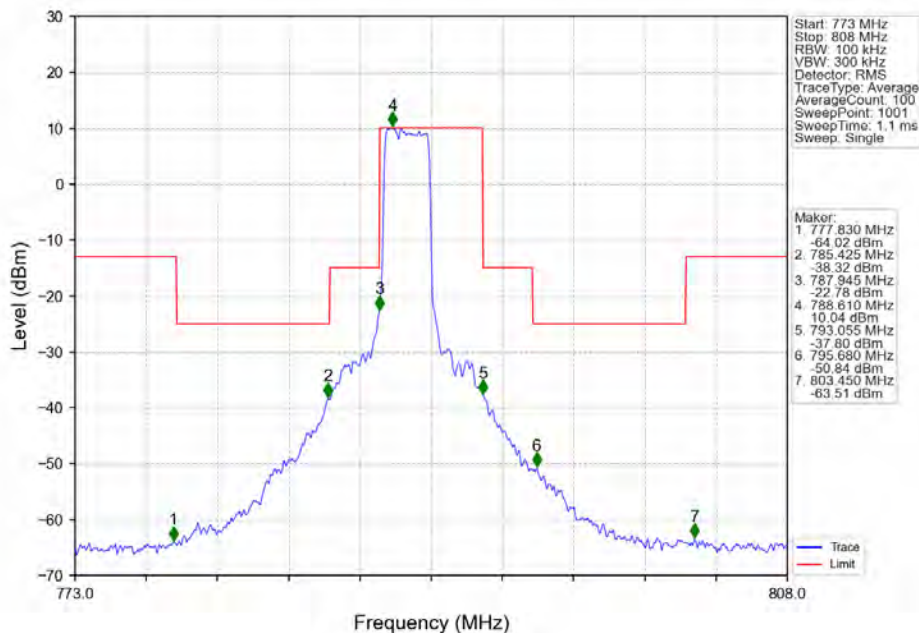
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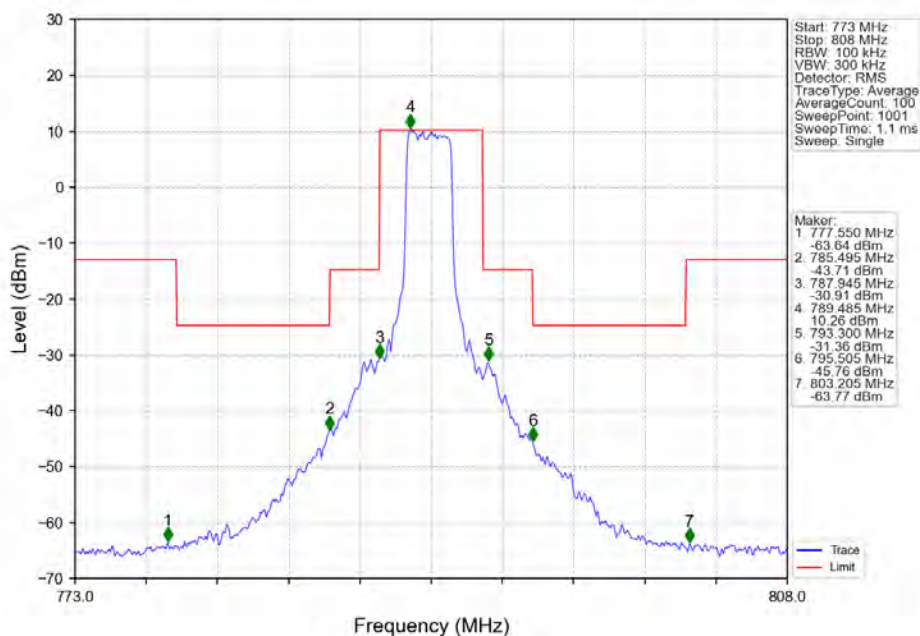
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Band14_5MHz_QPSK_LCH_790.5MHz_RB_12_6_NTNV



Band14_5MHz_QPSK_LCH_790.5MHz_RB_12_13_NTNV



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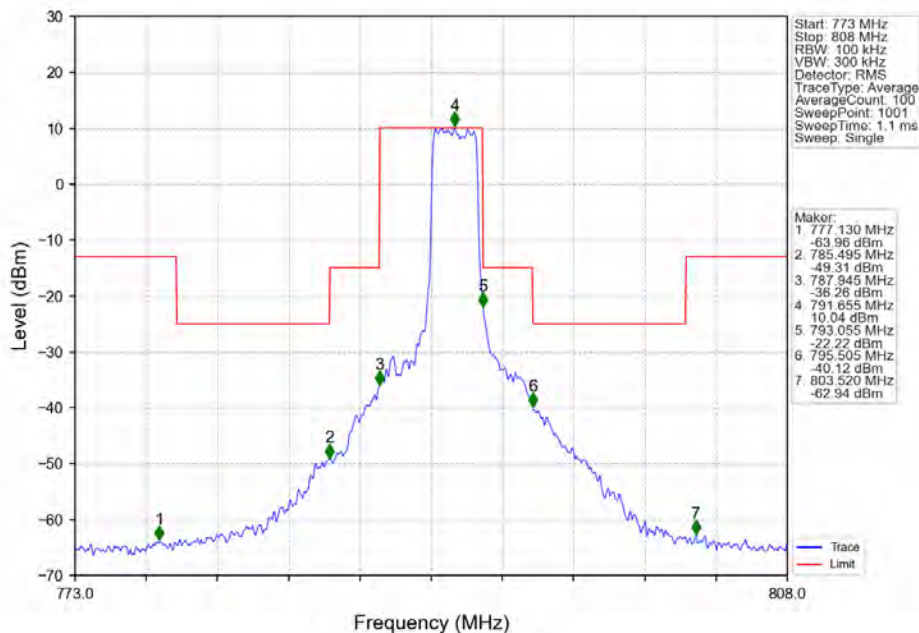
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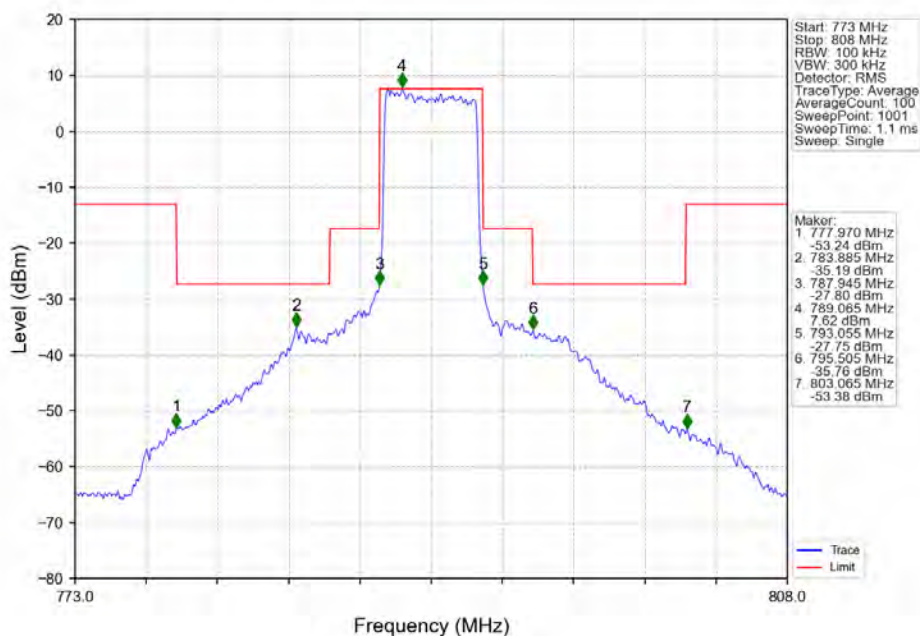
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Band14_5MHz_QPSK_LCH_790.5MHz_RB_25_0_NTNV



Band14_5MHz_QPSK_MCH_793MHz_RB_1_0_NTNV



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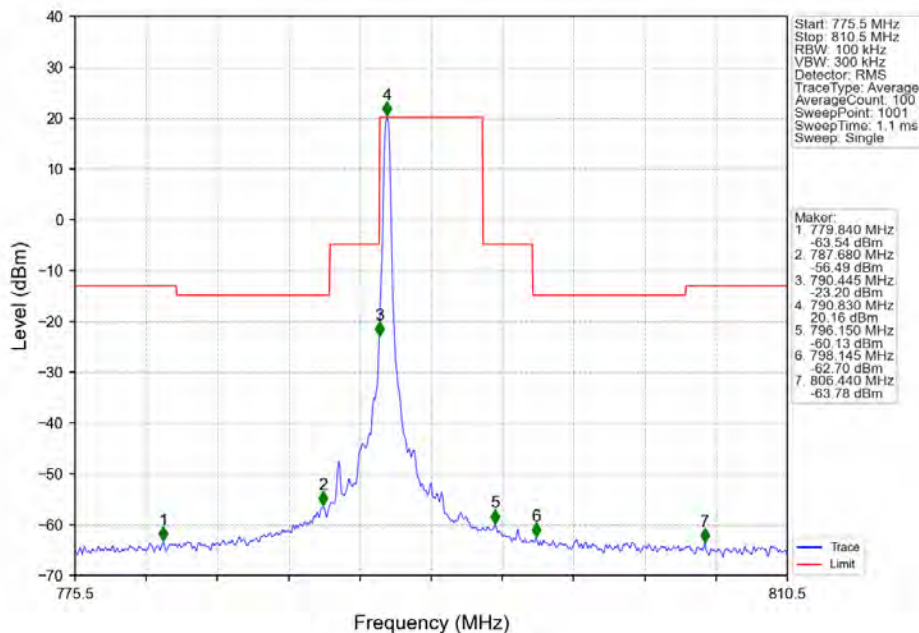
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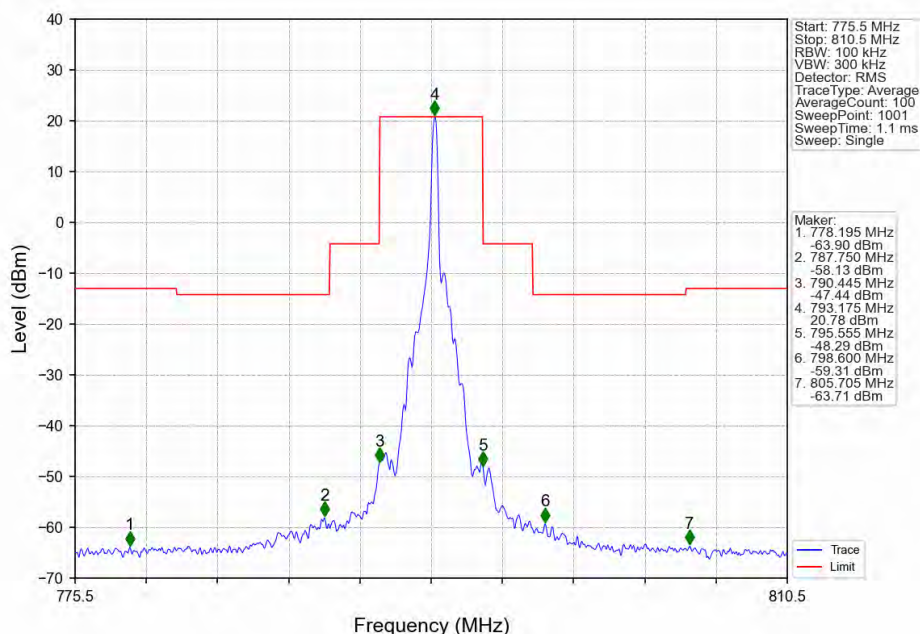
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Band14_5MHz_QPSK_MCH_793MHz_RB_1_24_NTNV



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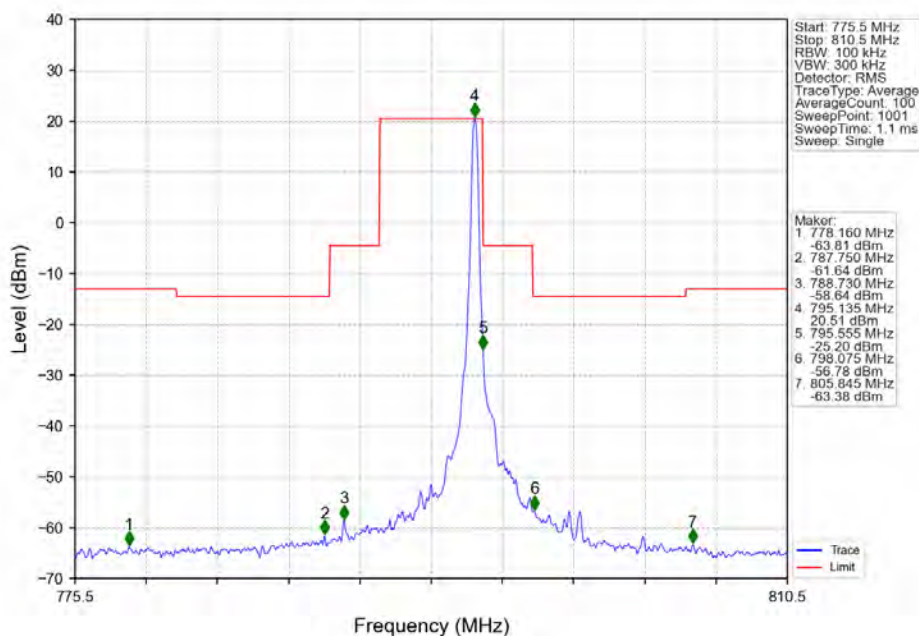
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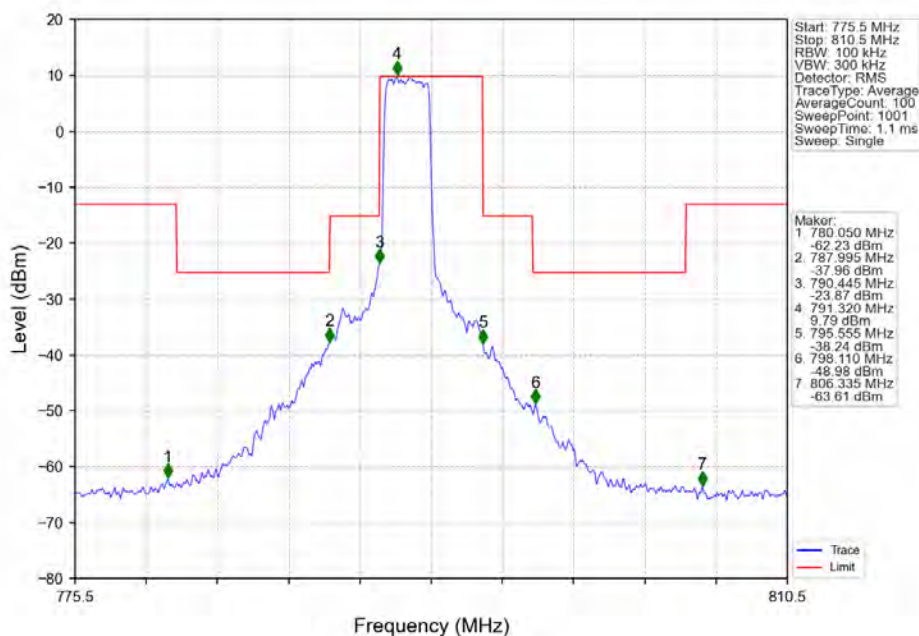
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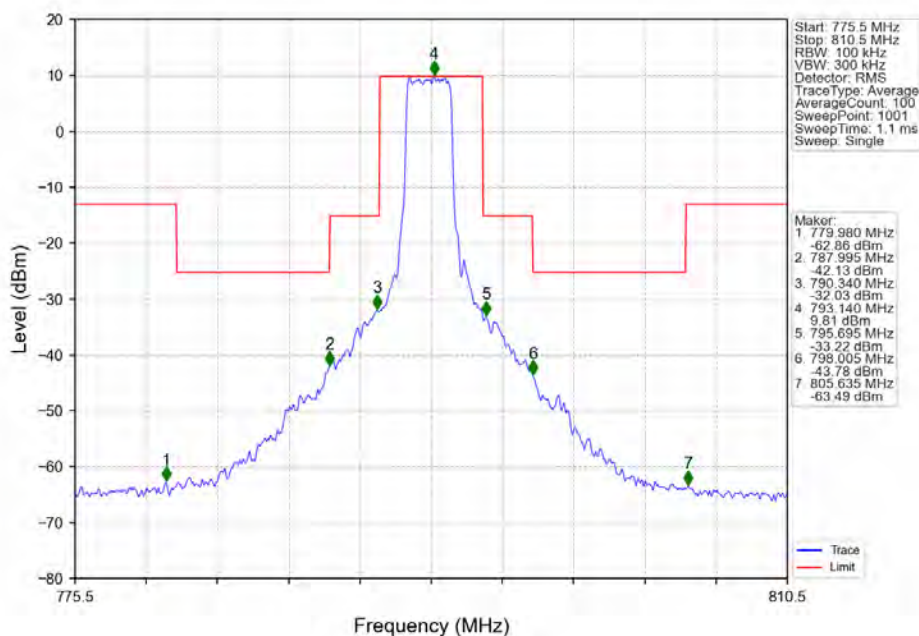
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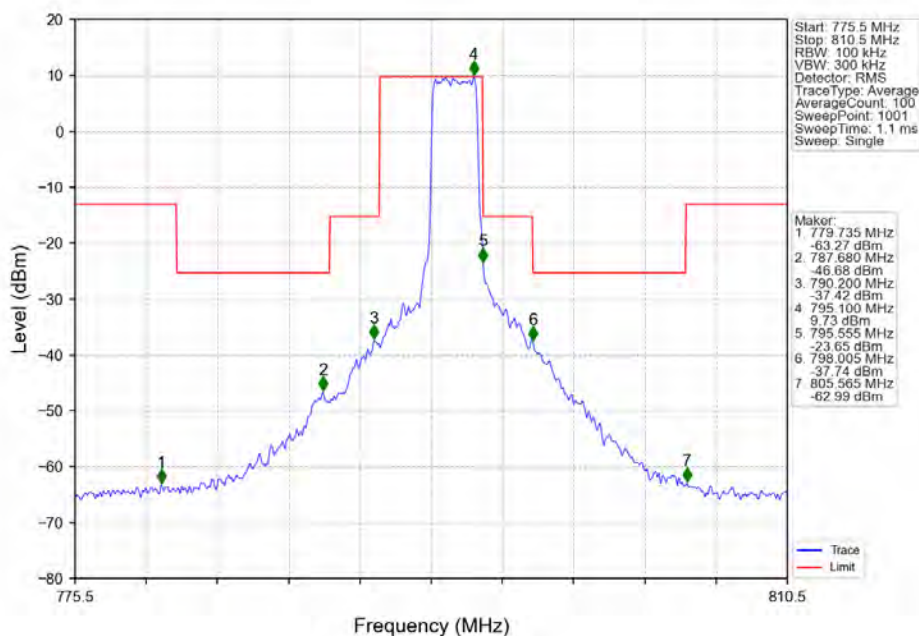
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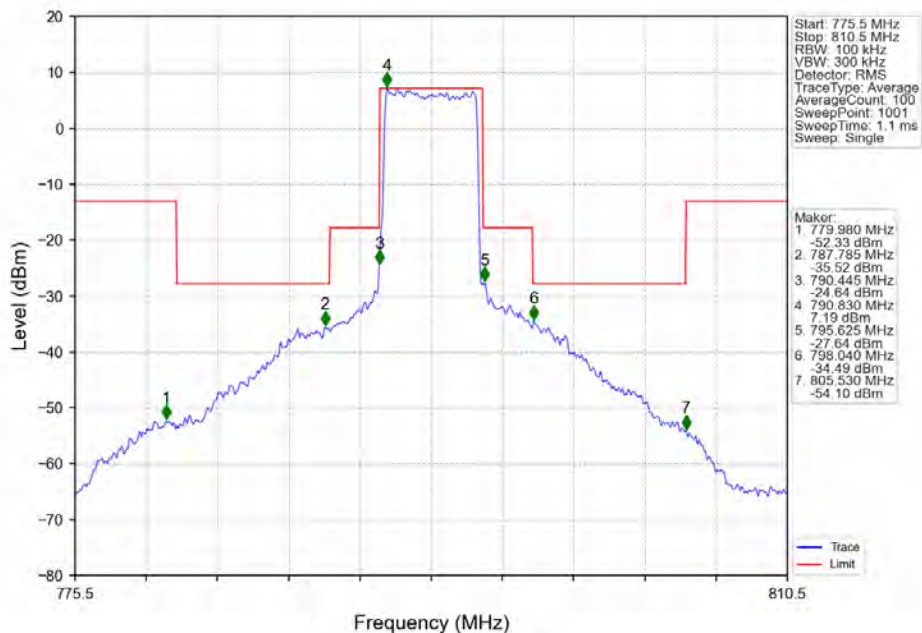
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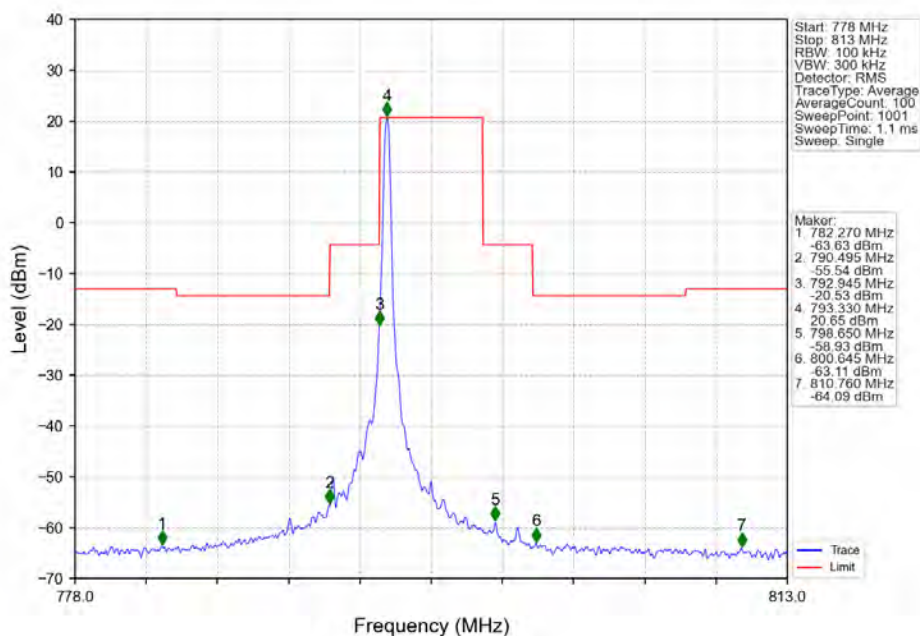
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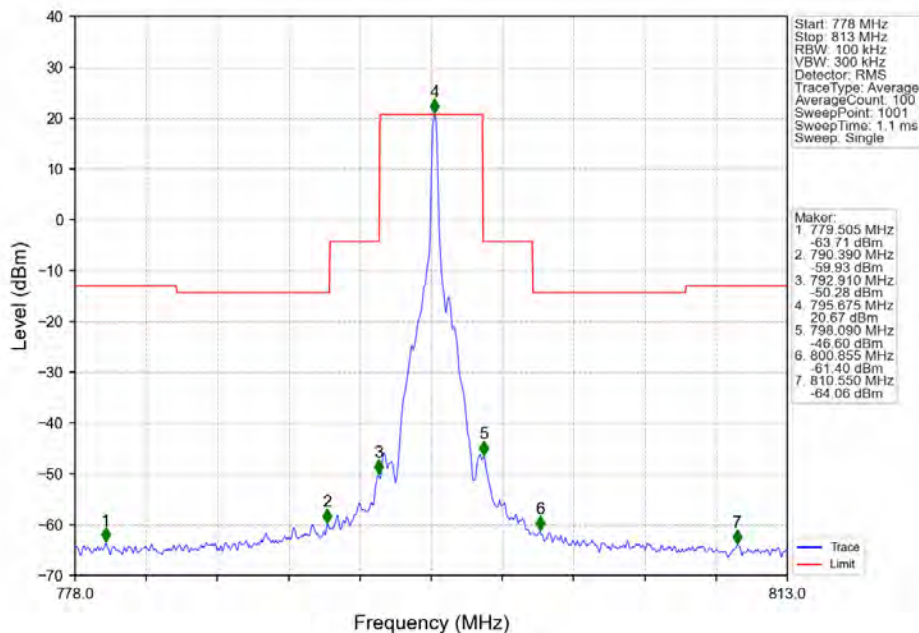
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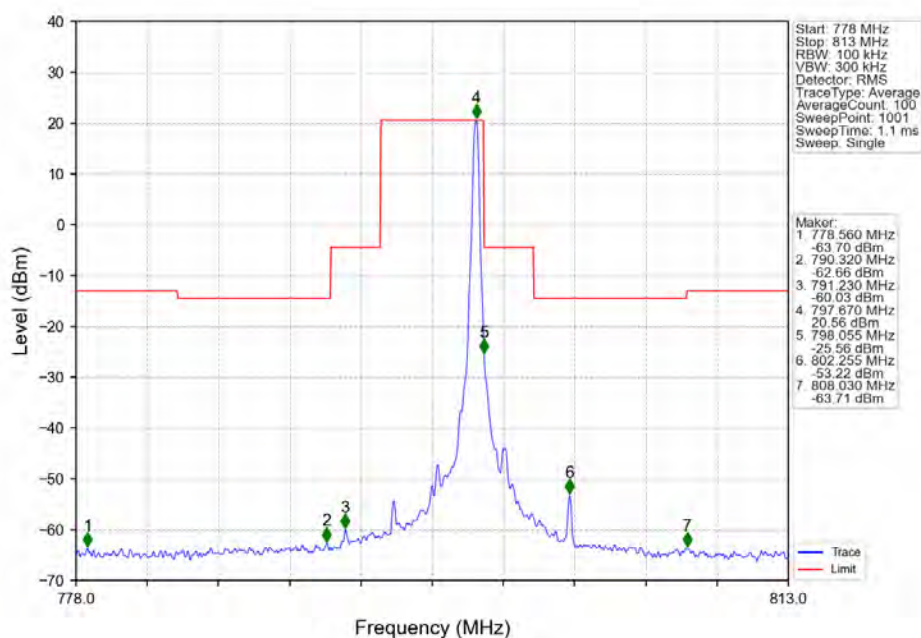
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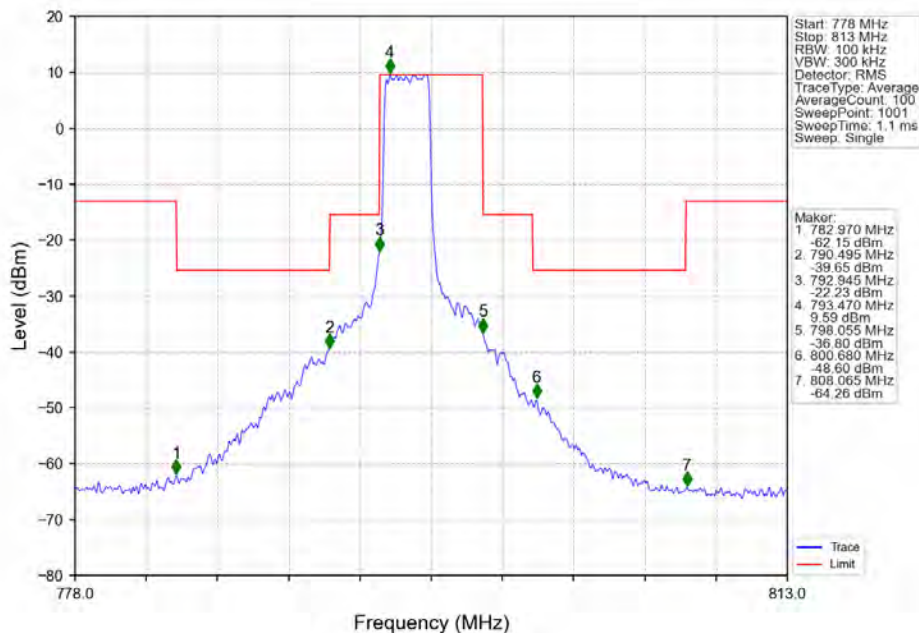
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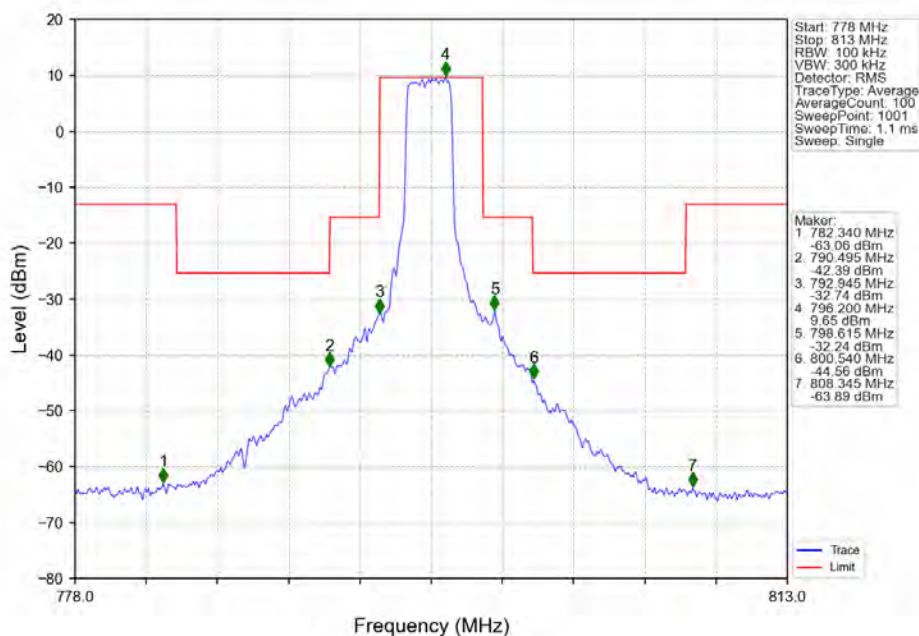
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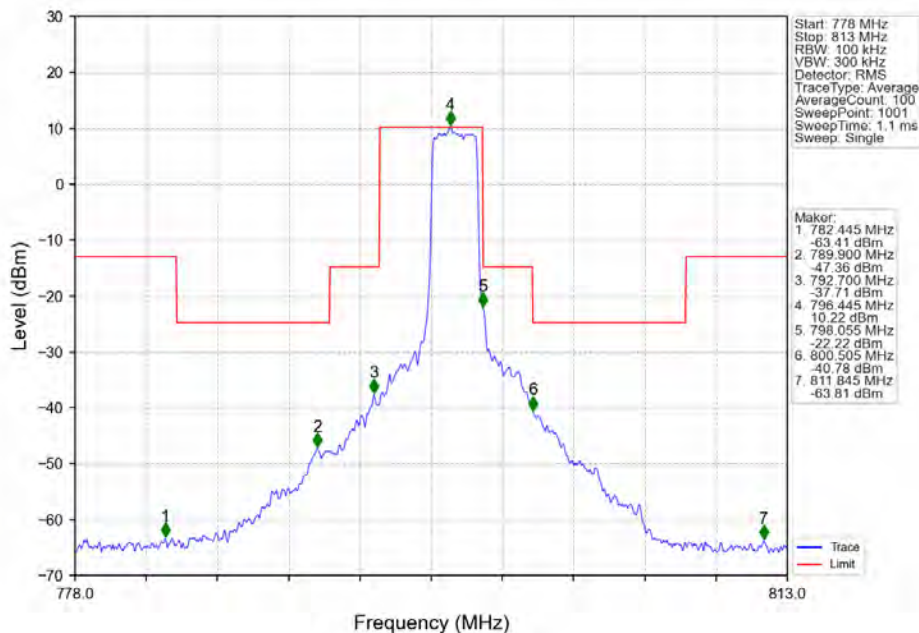
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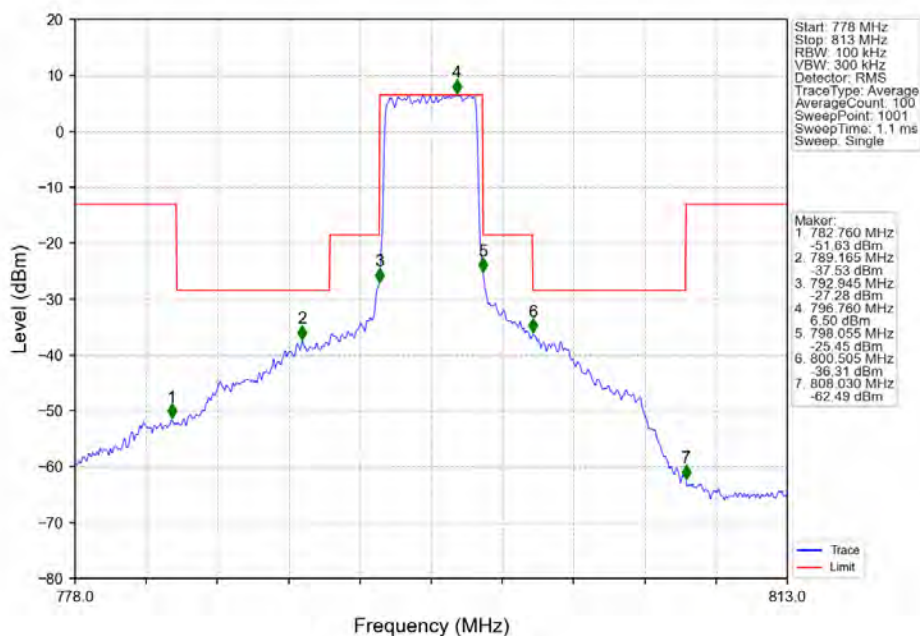
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Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



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6.2 B14_10MHz

6.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Freq. (MHz)		Emission Mask (dBm)		Verdict
		Size	Offset	Start	Stop	Result	Limit	
QPSK	793	1	0	758	768	-62.70	-13	Pass
				768	783	-61.22	-14	Pass
				783	787.95	-34.12	-4	Pass
				787.95	798.05	21.00	21	Pass
				798.05	803	-61.39	-4	Pass
				803	818	-63.83	-14	Pass
				818	828	-63.84	-13	Pass
			25	758	768	-63.14	-13	Pass
				768	783	-63.45	-14.21	Pass
				783	787.95	-56.52	-4.21	Pass
				787.95	798.05	20.79	20.79	Pass
				798.05	803	-58.36	-4.21	Pass
				803	818	-63.93	-14.21	Pass
				818	828	-64.00	-13	Pass
		49		758	768	-63.48	-13	Pass
				768	783	-63.60	-14.41	Pass
				783	787.95	-61.03	-4.41	Pass
				787.95	798.05	20.59	20.59	Pass
				798.05	803	-35.42	-4.41	Pass
				803	818	-62.31	-14.41	Pass
				818	828	-64.03	-13	Pass
		25	0	758	768	-63.23	-13	Pass
				768	783	-41.91	-28.09	Pass
				783	787.95	-28.63	-18.09	Pass
				787.95	798.05	6.91	6.91	Pass
				798.05	803	-39.11	-18.09	Pass
				803	818	-53.69	-28.09	Pass
				818	828	-64.00	-13	Pass



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			13	758	768	-63.46	-13	Pass
				768	783	-46.92	-28.03	Pass
				783	787.95	-35.46	-18.03	Pass
				787.95	798.05	6.97	6.97	Pass
				798.05	803	-32.74	-18.03	Pass
				803	818	-47.44	-28.03	Pass
				818	828	-64.04	-13	Pass
			25	758	768	-63.43	-13	Pass
				768	783	-51.56	-28.23	Pass
				783	787.95	-38.94	-18.23	Pass
				787.95	798.05	6.77	6.77	Pass
				798.05	803	-28.98	-18.23	Pass
				803	818	-43.48	-28.23	Pass
				818	828	-63.61	-13	Pass
		50	0	758	768	-63.36	-13	Pass
				768	783	-38.36	-30.97	Pass
				783	787.95	-30.18	-20.97	Pass
				787.95	798.05	4.03	4.03	Pass
				798.05	803	-32.01	-20.97	Pass
				803	818	-38.22	-30.97	Pass
				818	828	-64.12	-13	Pass



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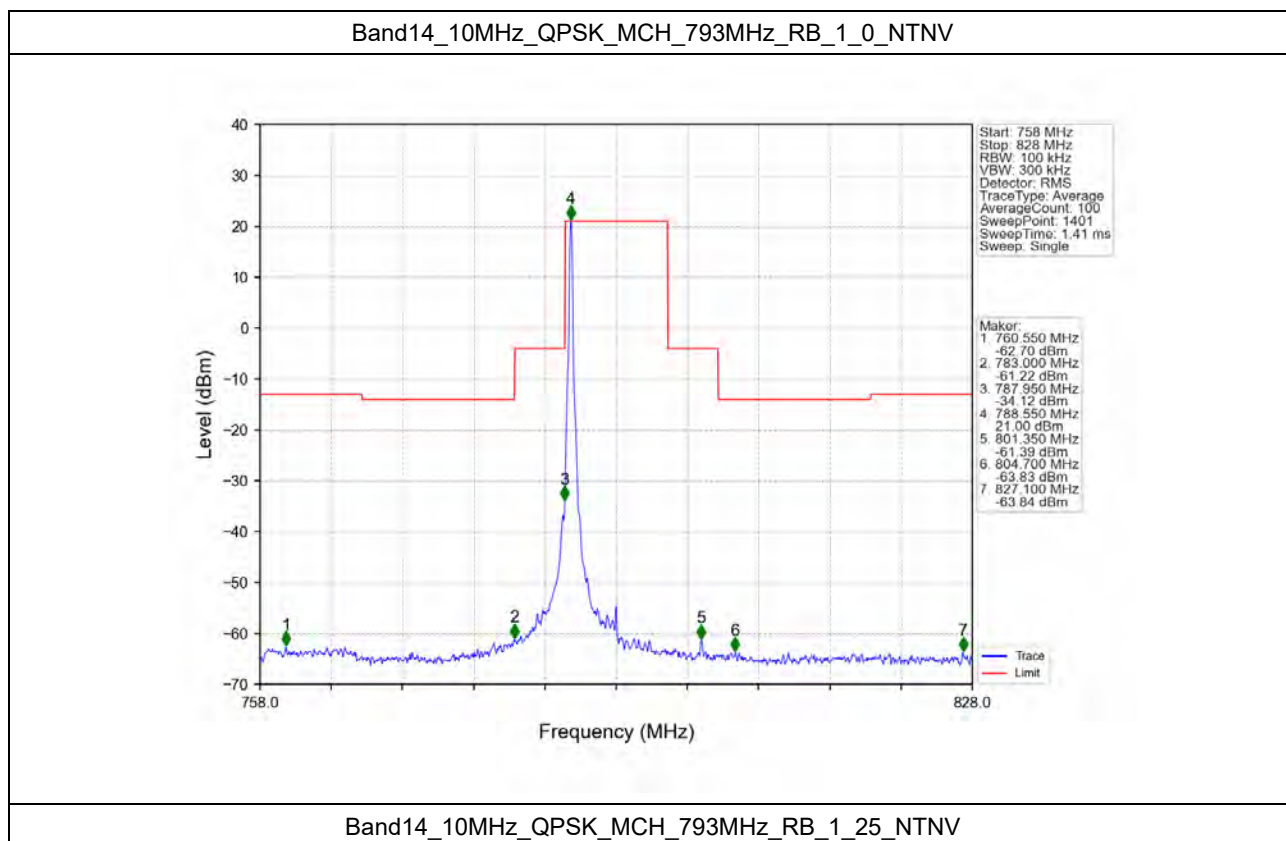
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6.2.2 Test Graph



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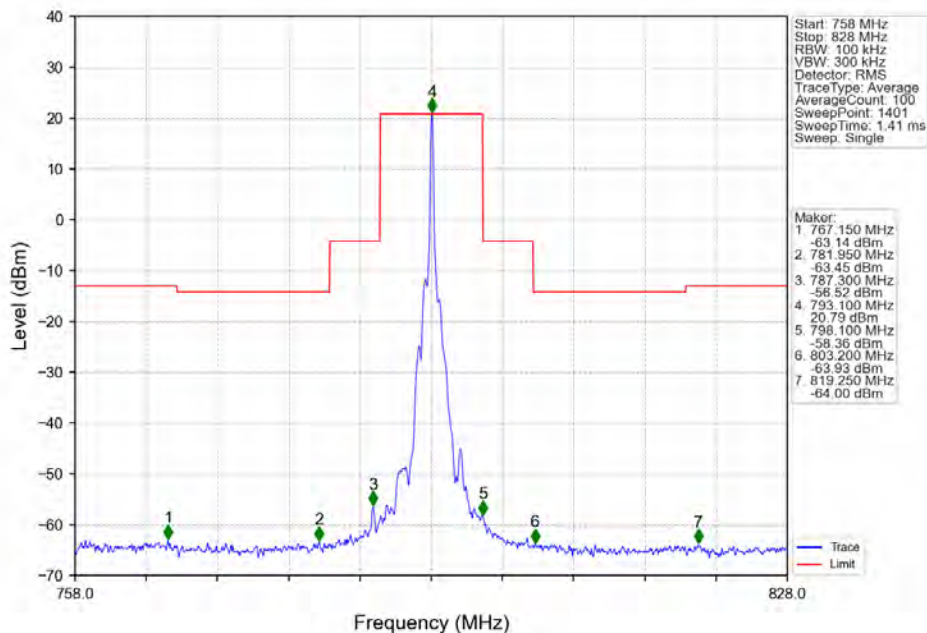
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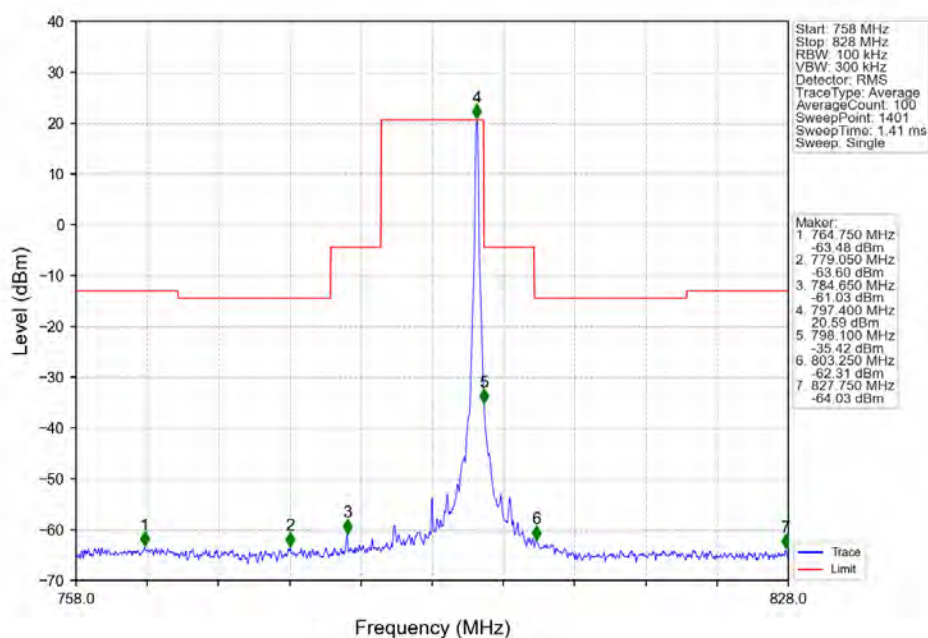
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Band14_10MHz_QPSK_MCH_793MHz_RB_1_49_NTNV



Band14_10MHz_QPSK_MCH_793MHz_RB_25_0_NTNV



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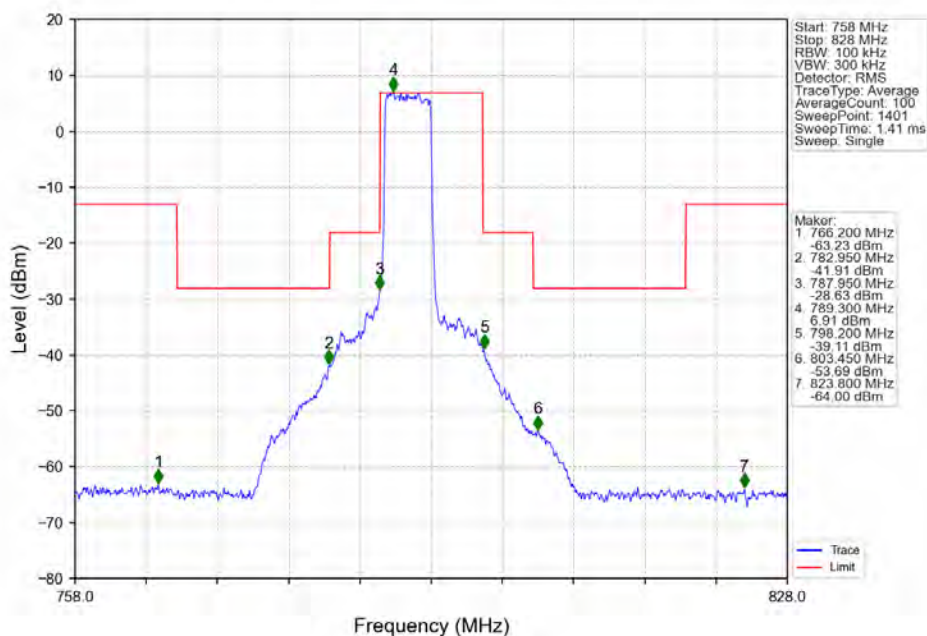
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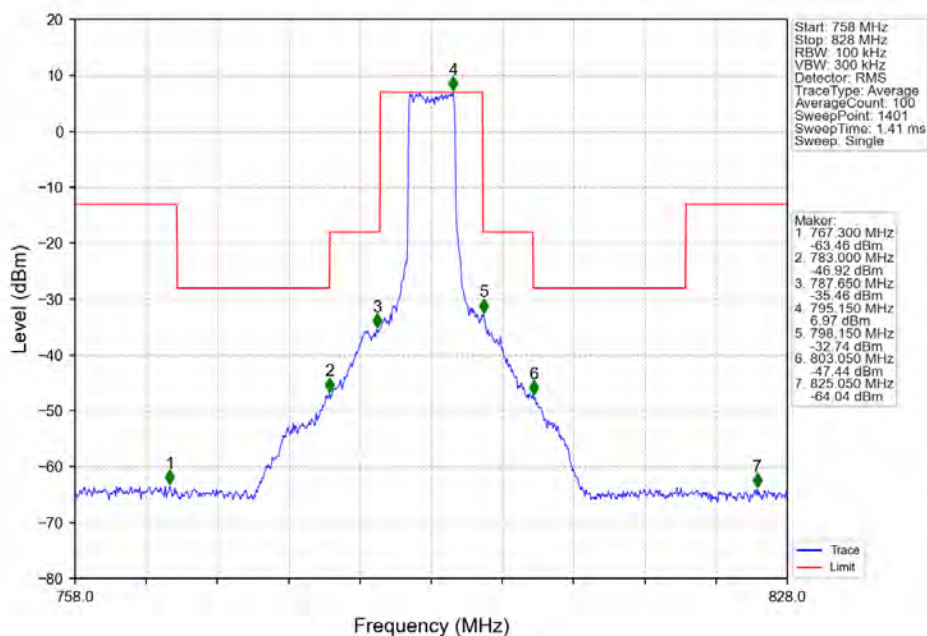
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Band14_10MHz_QPSK_MCH_793MHz_RB_25_13_NTNV



Band14_10MHz_QPSK_MCH_793MHz_RB_25_25_NTNV



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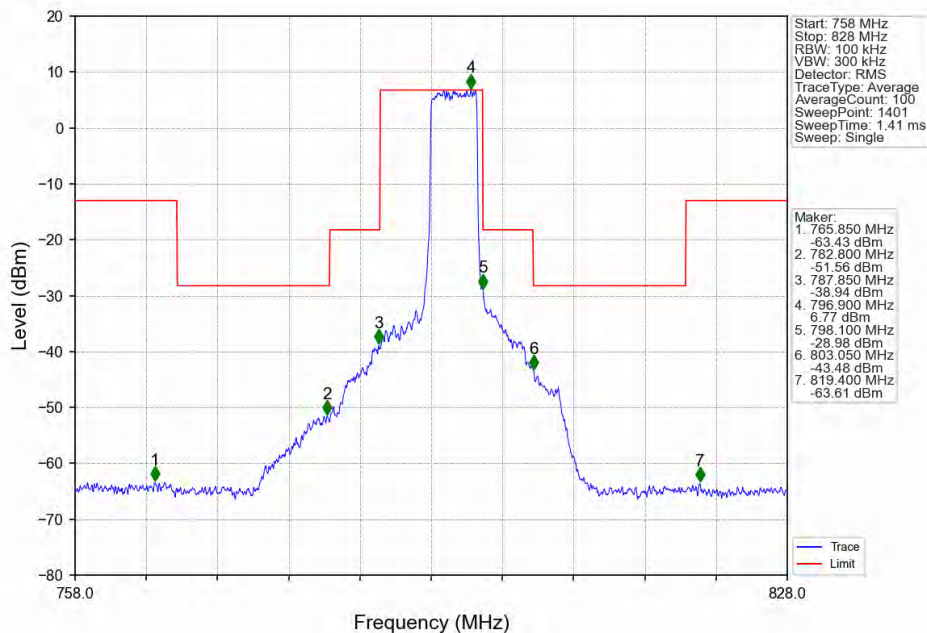
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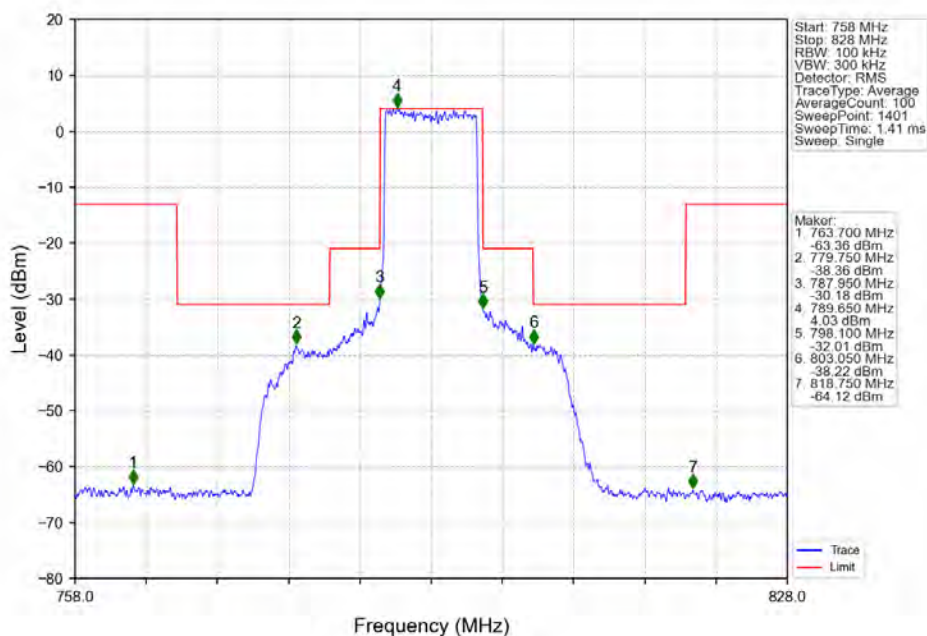
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Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV



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7. Field Strength of Spurious Radiation

Test Band = LTE Band14 5MHz

Test Channel = Low

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150	48.22	-47.81	24.50	-70.35	-13.00	57.35	Horizontal
2	1576.5	50.94	-47.61	24.68	-67.25	-40.00	27.25	Horizontal
3	2365	59.53	-46.62	27.54	-54.81	-13.00	41.81	Horizontal
4	4278.5	46.36	-43.09	29.63	-62.36	-13.00	49.36	Horizontal
5	7412	44.03	-38.35	36.72	-52.86	-13.00	39.86	Horizontal
6	9786	41.82	-35.62	38.44	-50.62	-13.00	37.62	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5	49.27	-47.61	24.68	-68.92	-40.00	28.92	Vertical
2	2365	50.29	-46.62	27.54	-64.05	-13.00	51.05	Vertical
3	3743.5	46.97	-44.78	29.56	-63.51	-13.00	50.51	Vertical
4	5623.5	45.72	-41.38	32.55	-58.37	-13.00	45.37	Vertical
5	7498	43.87	-38.38	36.90	-52.87	-13.00	39.87	Vertical
6	9904.5	42.28	-35.31	38.60	-49.69	-13.00	36.69	Vertical



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Test Band = LTE Band14 5MHz
 Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5	50.67	-47.61	24.77	-67.43	-40.00	27.43	Horizontal
2	2372.5	59.92	-46.62	27.51	-54.45	-13.00	41.45	Horizontal
3	3254.5	47.13	-45.53	28.59	-65.07	-13.00	52.07	Horizontal
4	5063.5	46.05	-42.77	31.57	-60.41	-13.00	47.41	Horizontal
5	7498.5	43.80	-38.38	36.90	-52.94	-13.00	39.94	Horizontal
6	9507	41.84	-35.80	37.80	-51.42	-13.00	38.42	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5	48.75	-47.61	24.77	-69.35	-40.00	29.35	Vertical
2	2372.5	51.22	-46.62	27.51	-63.15	-13.00	50.15	Vertical
3	3058.5	47.27	-45.80	28.82	-64.97	-13.00	51.97	Vertical
4	4712	46.26	-42.96	30.58	-61.38	-13.00	48.38	Vertical
5	7502	44.04	-38.39	36.88	-52.73	-13.00	39.73	Vertical
6	9558.5	42.03	-35.84	37.80	-51.27	-13.00	38.27	Vertical



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Test Band = LTE Band14 5MHz

Test Channel = High

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1587	50.32	-47.61	24.87	-67.68	-40.00	27.68	Horizontal
2	2380	61.11	-46.62	27.48	-53.29	-13.00	40.29	Horizontal
3	3601	47.43	-44.48	28.91	-63.40	-13.00	50.40	Horizontal
4	5638	45.67	-41.37	32.52	-58.44	-13.00	45.44	Horizontal
5	7397	44.27	-38.36	36.69	-52.66	-13.00	39.66	Horizontal
6	9877	42.39	-35.35	38.42	-49.80	-13.00	36.80	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.5	49.30	-47.61	24.86	-68.71	-40.00	28.71	Vertical
2	2380	51.16	-46.62	27.48	-63.24	-13.00	50.24	Vertical
3	3136.5	46.99	-45.68	28.75	-65.20	-13.00	52.20	Vertical
4	4421	46.74	-43.22	30.10	-61.64	-13.00	48.64	Vertical
5	7427.5	44.42	-38.36	36.76	-52.44	-13.00	39.44	Vertical
6	9908.5	42.23	-35.32	38.61	-49.74	-13.00	36.74	Vertical



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Test Band = LTE Band14 10MHz

Test Channel = Mid

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1180	48.21	-47.86	24.56	-70.35	-13.00	57.35	Horizontal
2	1577	50.16	-47.61	24.69	-68.02	-40.00	28.02	Horizontal
3	2366	59.26	-46.62	27.54	-55.08	-13.00	42.08	Horizontal
4	4410.5	46.53	-43.25	30.10	-61.88	-13.00	48.88	Horizontal
5	7400.5	44.35	-38.35	36.70	-52.56	-13.00	39.56	Horizontal
6	9937	42.26	-35.43	38.64	-49.79	-13.00	36.79	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1172.5	48.09	-47.84	24.55	-70.46	-13.00	57.46	Vertical
2	1577	49.29	-47.61	24.69	-68.89	-40.00	28.89	Vertical
3	2365.5	51.16	-46.62	27.54	-63.18	-13.00	50.18	Vertical
4	3952.5	46.93	-44.17	29.90	-62.60	-13.00	49.60	Vertical
5	7417	44.19	-38.36	36.73	-52.70	-13.00	39.70	Vertical
6	9105	42.69	-35.49	37.01	-51.05	-13.00	38.05	Vertical



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Test Band = LTE 14A_30A

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3745	44.89	-45.69	28.99	-67.07	-40.00	27.07	Horizontal
2	4722.5	44.43	-45.59	30.96	-65.46	-40.00	25.46	Horizontal
3	5872	44.48	-44.91	32.37	-63.31	-40.00	23.31	Horizontal
4	7527	42.29	-43.08	36.44	-59.62	-40.00	19.62	Horizontal
5	8802	42.02	-41.25	36.62	-57.87	-40.00	17.87	Horizontal
6	11398.5	37.44	-37.37	38.80	-56.39	-40.00	16.39	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3907	45.39	-46.26	29.25	-66.88	-40.00	26.88	Vertical
2	4610.5	46.88	-45.66	30.78	-63.27	-40.00	23.27	Vertical
3	6343	43.49	-44.48	33.57	-62.69	-40.00	22.69	Vertical
4	8762	42.39	-41.42	36.64	-57.64	-40.00	17.64	Vertical
5	12120	37.32	-37.37	39.14	-56.17	-40.00	16.17	Vertical
6	13751.5	35.70	-36.28	40.45	-55.39	-40.00	15.39	Vertical



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Test Band = LTE 14A_30A

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3957	44.88	-46.14	29.33	-67.19	-40.00	27.19	Horizontal
2	5130.5	43.71	-45.34	31.63	-65.26	-40.00	25.26	Horizontal
3	6317	43.65	-44.52	33.48	-62.65	-40.00	22.65	Horizontal
4	8412	41.92	-41.47	36.85	-57.96	-40.00	17.96	Horizontal
5	10667	37.23	-38.07	38.57	-57.54	-40.00	17.54	Horizontal
6	13337.5	36.31	-36.67	39.87	-55.74	-40.00	15.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	47.53	-45.66	30.78	-62.60	-40.00	22.60	Vertical
2	6235.5	43.94	-44.68	33.20	-62.80	-40.00	22.80	Vertical
3	7412	42.78	-43.38	36.15	-59.70	-40.00	19.70	Vertical
4	9231.5	39.78	-40.24	36.96	-58.76	-40.00	18.76	Vertical
5	10903	37.22	-37.81	38.59	-57.26	-40.00	17.26	Vertical
6	12898	36.24	-37.10	39.37	-56.76	-40.00	16.76	Vertical



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Test Band = LTE 14A_30A

Test Channel = High

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4111.5	44.12	-45.76	29.67	-67.23	-40.00	27.23	Horizontal
2	5121	44.08	-45.35	31.62	-64.91	-40.00	24.91	Horizontal
3	6363.5	43.79	-44.46	33.64	-62.29	-40.00	22.29	Horizontal
4	8003	42.13	-42.32	37.10	-58.35	-40.00	18.35	Horizontal
5	10158	38.28	-39.34	38.52	-57.80	-40.00	17.80	Horizontal
6	12714.5	36.20	-36.70	39.31	-56.45	-40.00	16.45	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.5	47.47	-45.66	30.79	-62.65	-40.00	22.65	Vertical
2	5866	43.99	-44.90	32.37	-63.79	-40.00	23.79	Vertical
3	7771.5	42.33	-42.54	36.78	-58.69	-40.00	18.69	Vertical
4	9422	41.18	-39.92	37.34	-56.65	-40.00	16.65	Vertical
5	11903	36.41	-37.12	39.05	-56.91	-40.00	16.91	Vertical
6	13714.5	35.69	-36.19	40.40	-55.36	-40.00	15.36	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) - Preamplifier (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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