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Appendix B.10

LTE Band 14



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B14_5MHz_ERP (NPANT002)

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	23.17	3.25	24.27	<=34.77	Pass		
			13	23.21	3.25	24.31	<=34.77	Pass		
			24	23.04	3.25	24.14	<=34.77	Pass		
		12	0	22.22	3.25	23.32	<=34.77	Pass		
			6	22.23	3.25	23.33	<=34.77	Pass		
			13	22.16	3.25	23.26	<=34.77	Pass		
		25	0	22.21	3.25	23.31	<=34.77	Pass		
		793	1	0	23.15	3.25	24.25	<=34.77	Pass	
				13	23.18	3.25	24.28	<=34.77	Pass	
	24			23.08	3.25	24.18	<=34.77	Pass		
	12		0	22.19	3.25	23.29	<=34.77	Pass		
			6	22.17	3.25	23.27	<=34.77	Pass		
			13	22.12	3.25	23.22	<=34.77	Pass		
	25		0	22.19	3.25	23.29	<=34.77	Pass		
	795.5		1	0	23.14	3.25	24.24	<=34.77	Pass	
				13	23.16	3.25	24.26	<=34.77	Pass	
		24		23.06	3.25	24.16	<=34.77	Pass		
		12	0	22.18	3.25	23.28	<=34.77	Pass		
			6	22.18	3.25	23.28	<=34.77	Pass		
			13	22.13	3.25	23.23	<=34.77	Pass		
		25	0	22.15	3.25	23.25	<=34.77	Pass		
		16QAM	790.5	1	0	22.07	3.25	23.17	<=34.77	Pass
					13	22.10	3.25	23.2	<=34.77	Pass
	24				21.94	3.25	23.04	<=34.77	Pass	
12	0			21.25	3.25	22.35	<=34.77	Pass		
	6			21.25	3.25	22.35	<=34.77	Pass		
	13			21.20	3.25	22.3	<=34.77	Pass		
25	0			21.28	3.25	22.38	<=34.77	Pass		
793	1			0	22.39	3.25	23.49	<=34.77	Pass	
				13	22.44	3.25	23.54	<=34.77	Pass	
			24	22.28	3.25	23.38	<=34.77	Pass		
	12		0	21.29	3.25	22.39	<=34.77	Pass		
			6	21.28	3.25	22.38	<=34.77	Pass		
			13	21.19	3.25	22.29	<=34.77	Pass		
	25		0	21.20	3.25	22.3	<=34.77	Pass		
	795.5		1	0	22.23	3.25	23.33	<=34.77	Pass	
				13	22.27	3.25	23.37	<=34.77	Pass	
24				22.14	3.25	23.24	<=34.77	Pass		
12			0	21.20	3.25	22.3	<=34.77	Pass		
			6	21.18	3.25	22.28	<=34.77	Pass		



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		13	21.13	3.25	22.23	<=34.77	Pass
	25	0	21.19	3.25	22.29	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15							



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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	23.13	3.25	24.23	<=34.77	Pass		
			25	23.06	3.25	24.16	<=34.77	Pass		
			49	23.02	3.25	24.12	<=34.77	Pass		
		25	0	22.24	3.25	23.34	<=34.77	Pass		
			13	22.24	3.25	23.34	<=34.77	Pass		
			25	22.18	3.25	23.28	<=34.77	Pass		
		50	0	22.21	3.25	23.31	<=34.77	Pass		
		16QAM	793	1	0	22.77	3.25	23.87	<=34.77	Pass
					25	22.68	3.25	23.78	<=34.77	Pass
49	22.54				3.25	23.64	<=34.77	Pass		
25	0			21.36	3.25	22.46	<=34.77	Pass		
	13			21.32	3.25	22.42	<=34.77	Pass		
	25			21.27	3.25	22.37	<=34.77	Pass		
50	0			21.28	3.25	22.38	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.2 B14_10MHz

2.2.1 Test Result

Table with columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Temp. (°C), Voltage (VDC), Freq. Error (Hz), Freq. vs. Rated (ppm) (Result, Limit), Verdict. Data includes QPSK and 16QAM tests at 793 MHz.



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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	4.539	/	Pass
		793	25	0	4.554	/	Pass
		795.5	25	0	4.555	/	Pass
	16QAM	790.5	25	0	4.570	/	Pass
		793	25	0	4.560	/	Pass
		795.5	25	0	4.543	/	Pass
10	QPSK	793	50	0	9.060	/	Pass
	16QAM	793	50	0	9.057	/	Pass



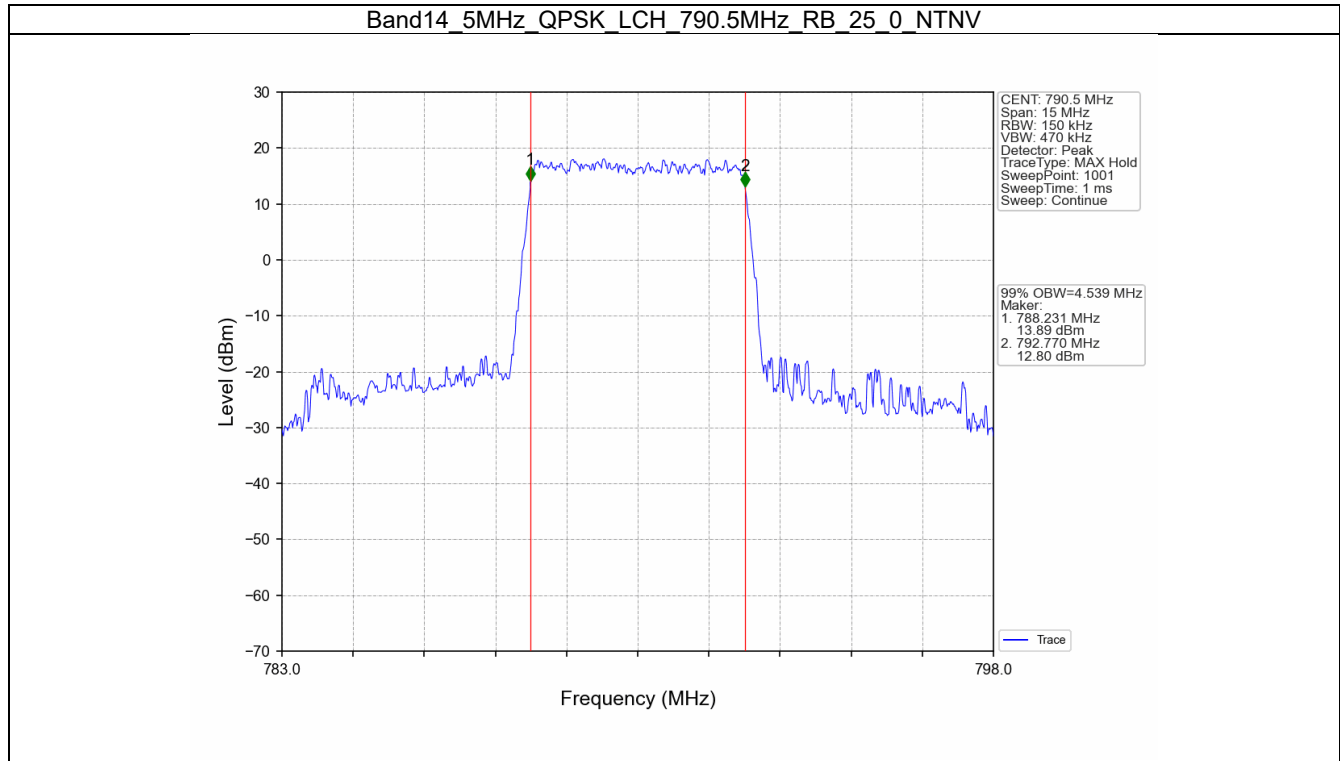
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3.1.2 Test Graph



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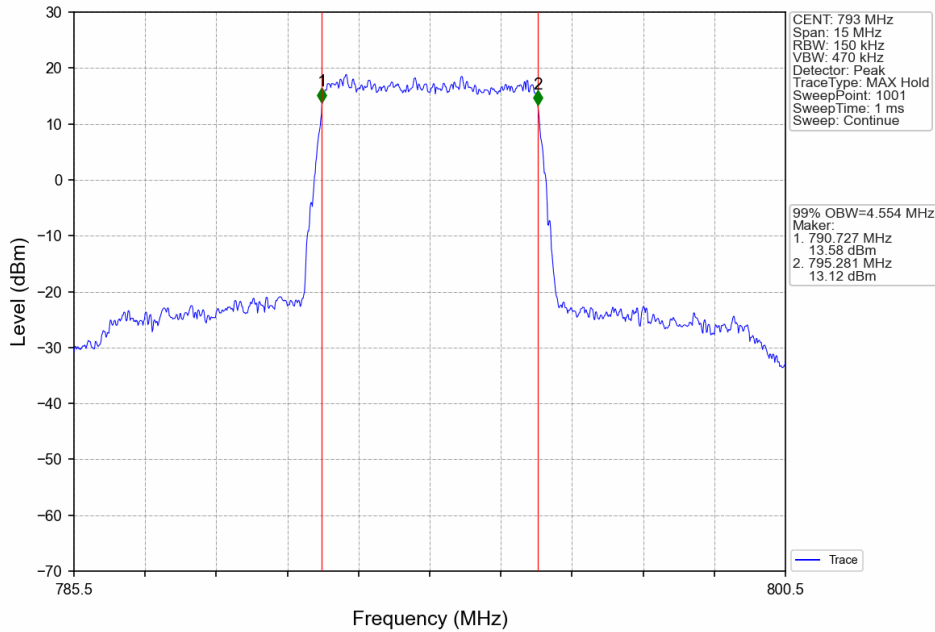
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Band14_5MHz_QPSK_MCH_793MHz_RB_25_0_NTNV



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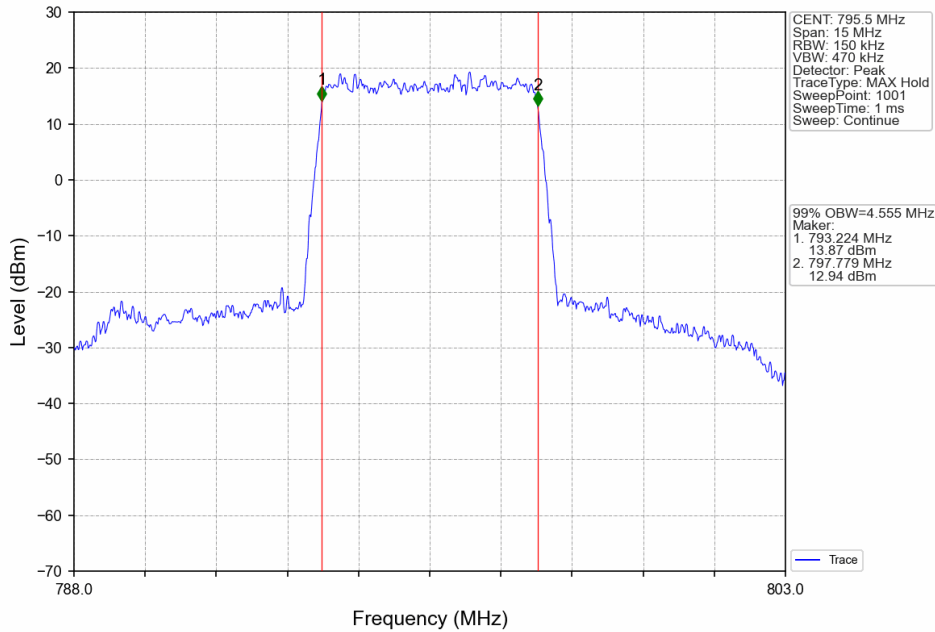
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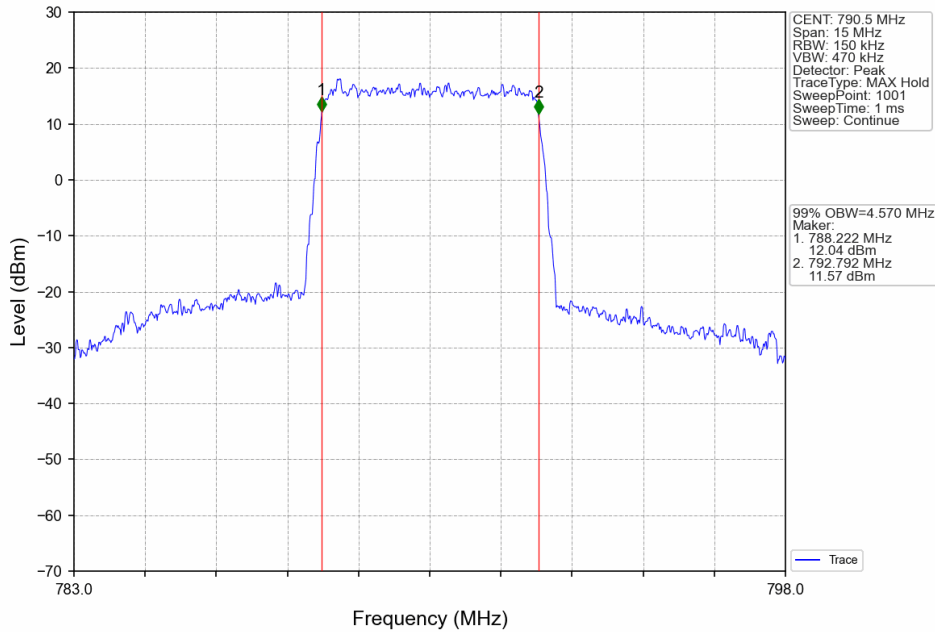
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Band14_5MHz_16QAM_LCH_790.5MHz_RB_25_0_NTNV



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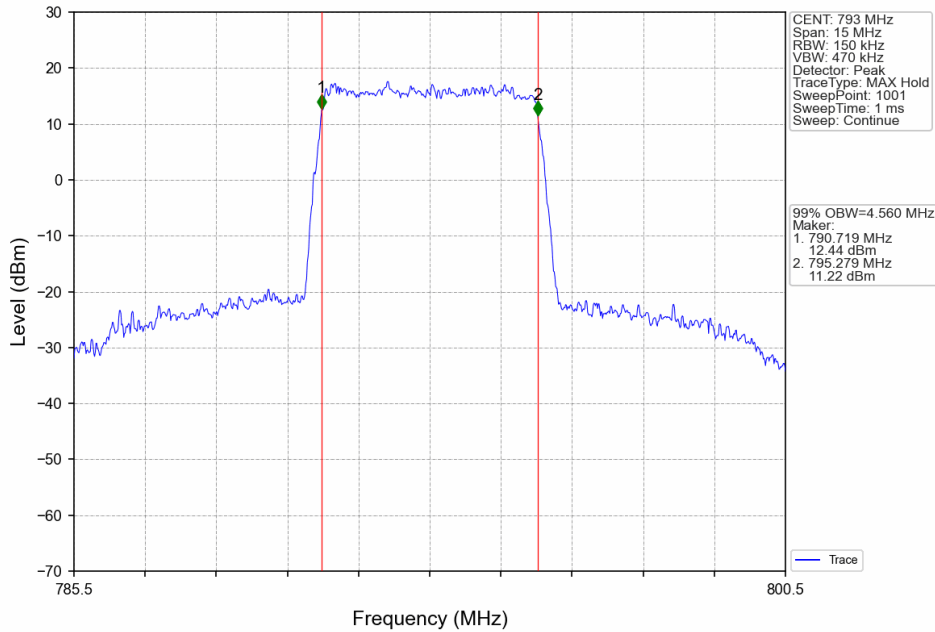
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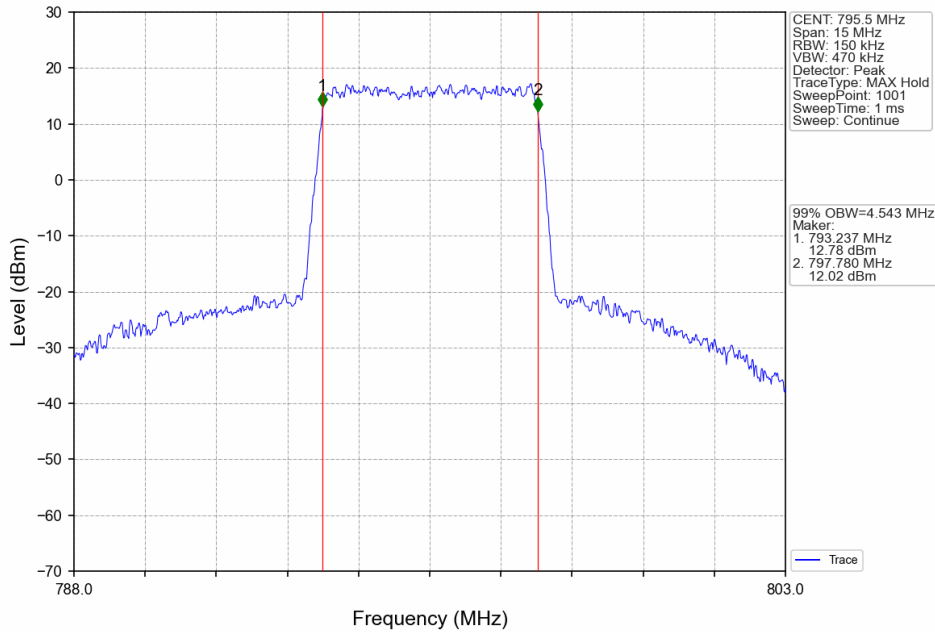
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Band14_5MHz_16QAM_HCH_795.5MHz_RB_25_0_NTNV



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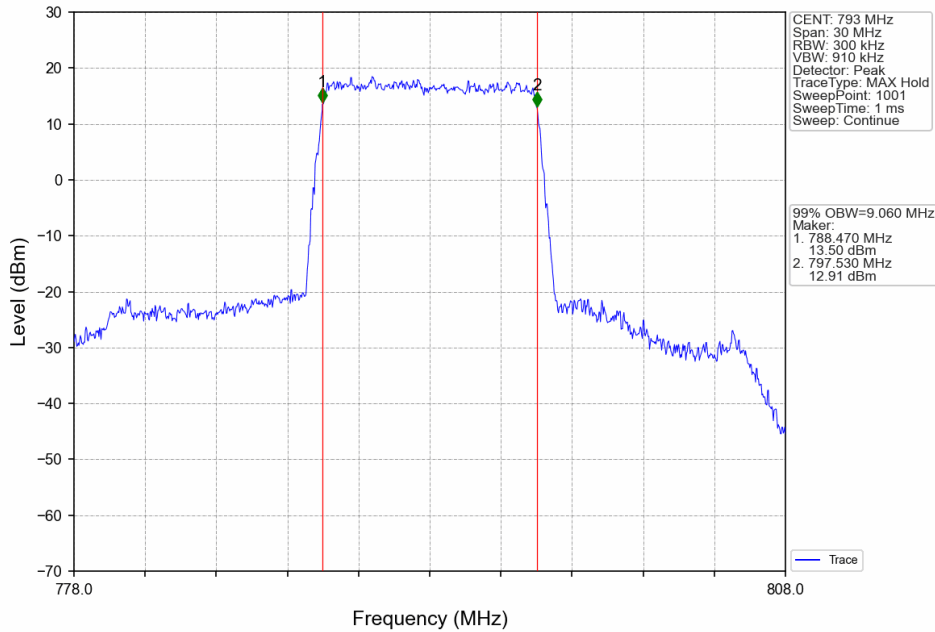
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Band14_10MHz_QPSK_MCH_793MHz_RB_50_0_NTNV

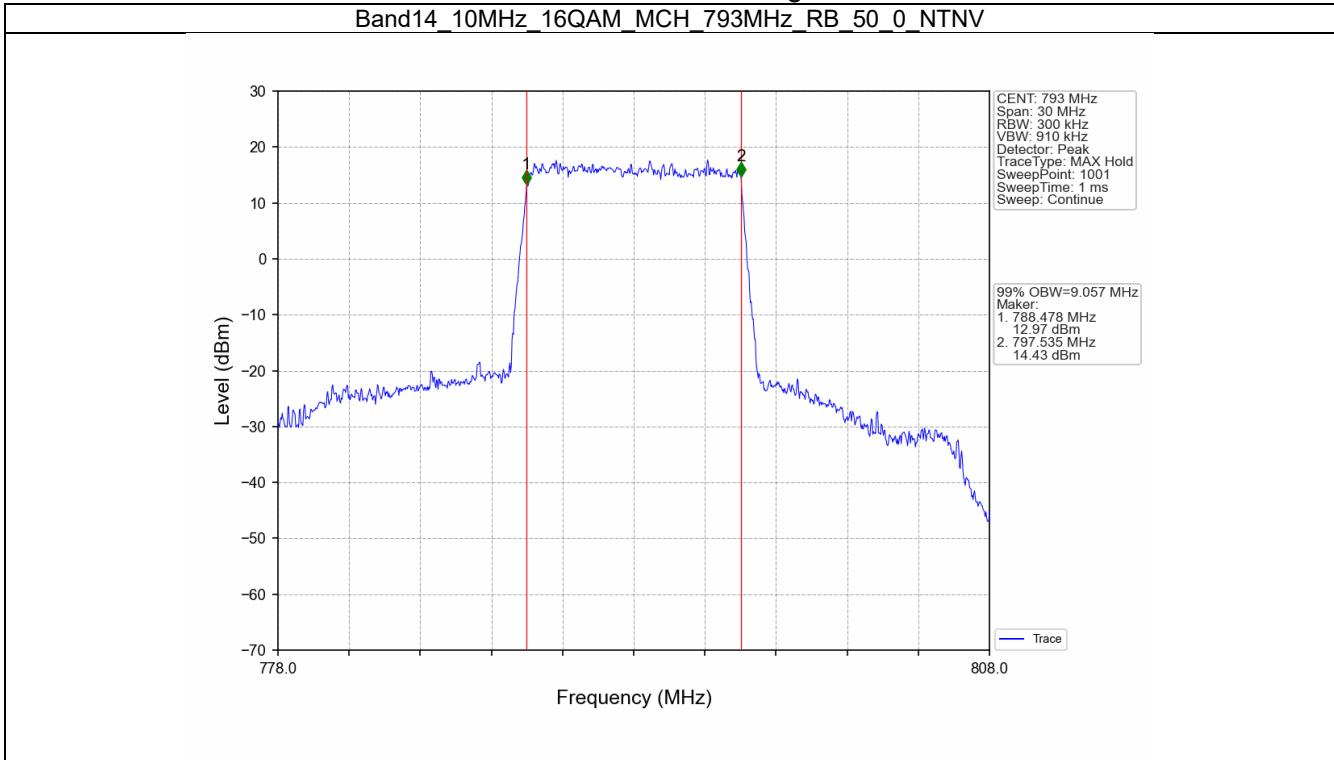


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Wireless Laboratories

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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	5.044	/	Pass
		793	25	0	5.020	/	Pass
		795.5	25	0	5.048	/	Pass
	16QAM	790.5	25	0	5.039	/	Pass
		793	25	0	5.070	/	Pass
		795.5	25	0	5.044	/	Pass
10	QPSK	793	50	0	10.036	/	Pass
	16QAM	793	50	0	9.961	/	Pass

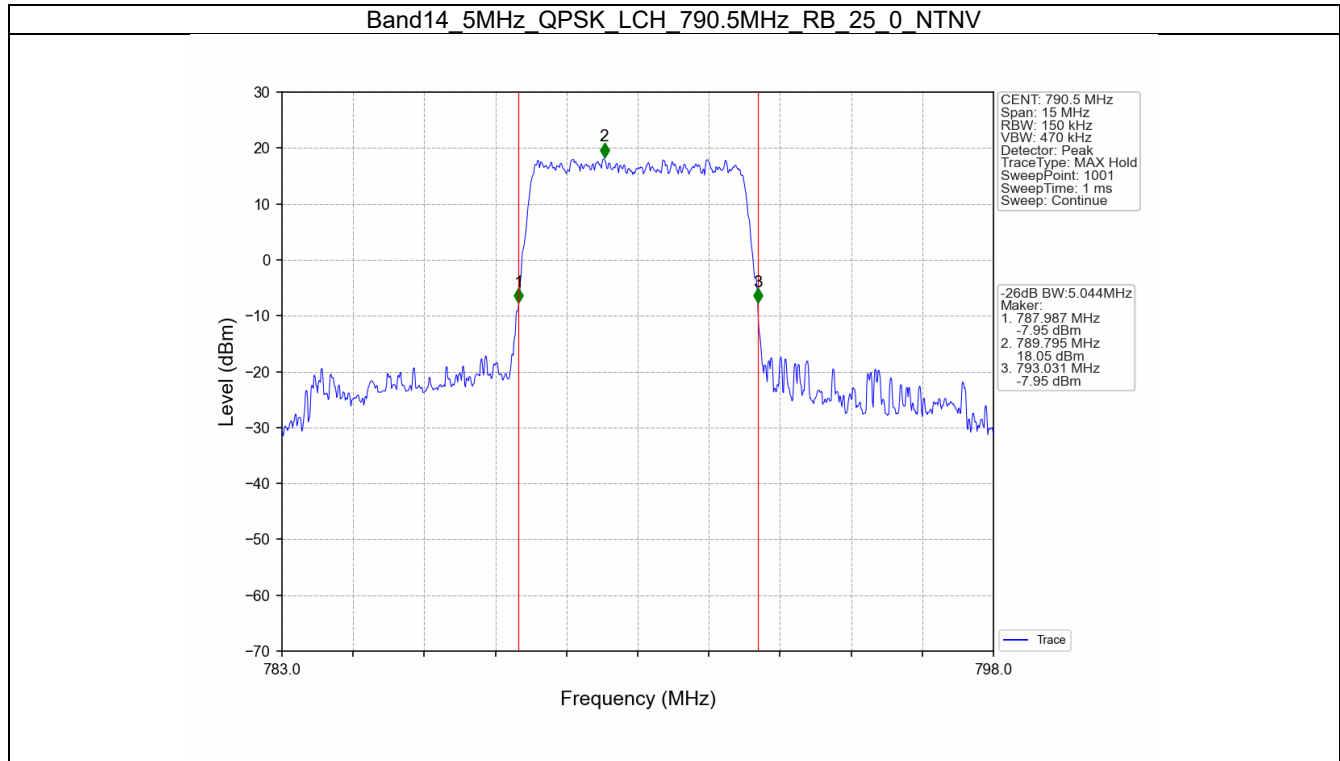


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3.2.2 Test Graph



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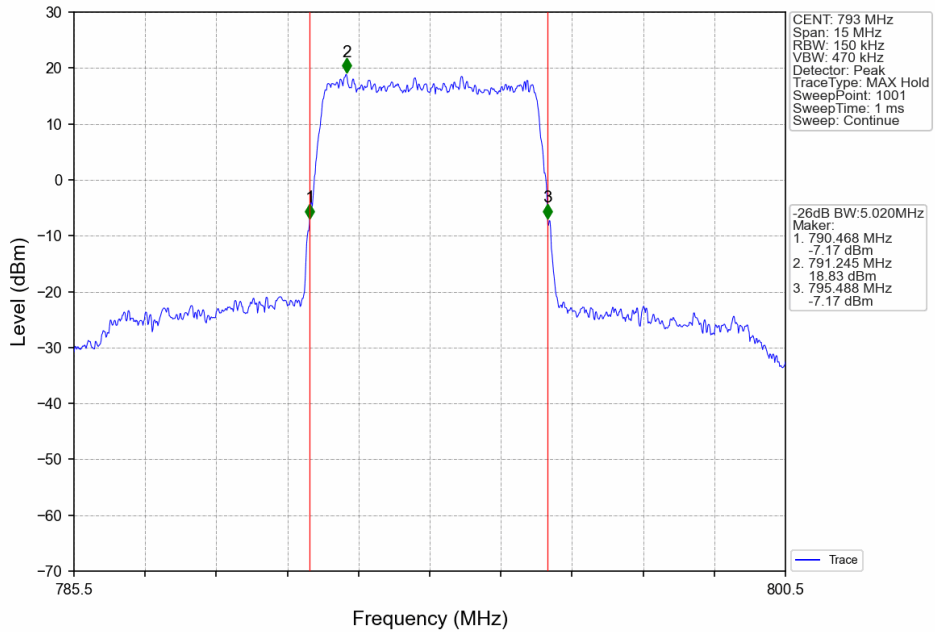
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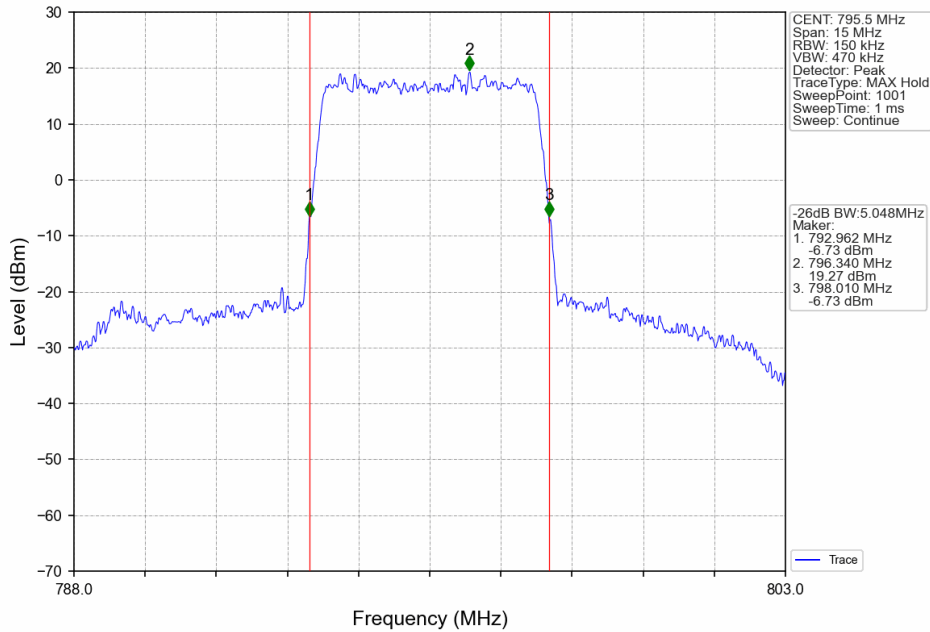
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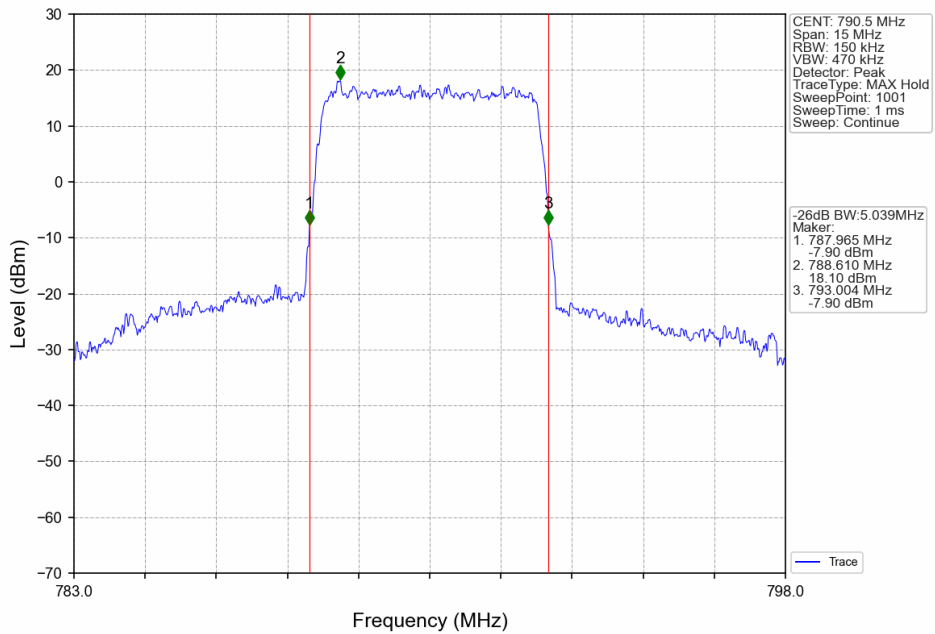


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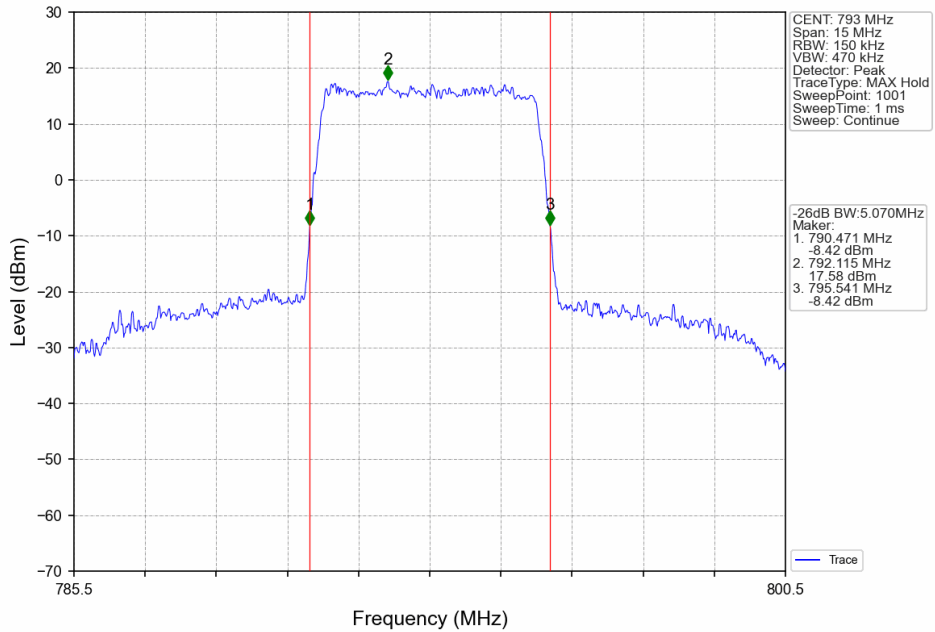
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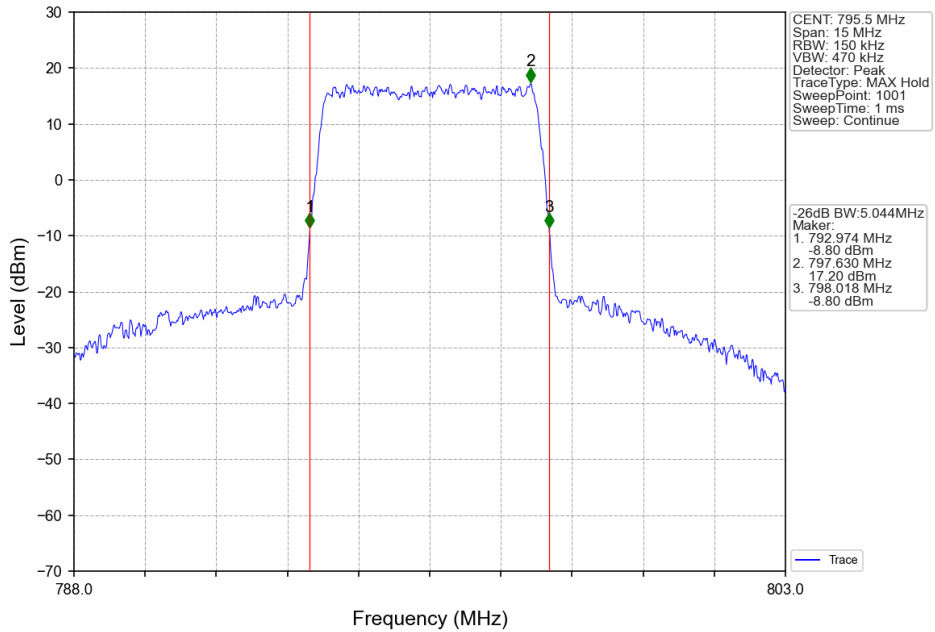
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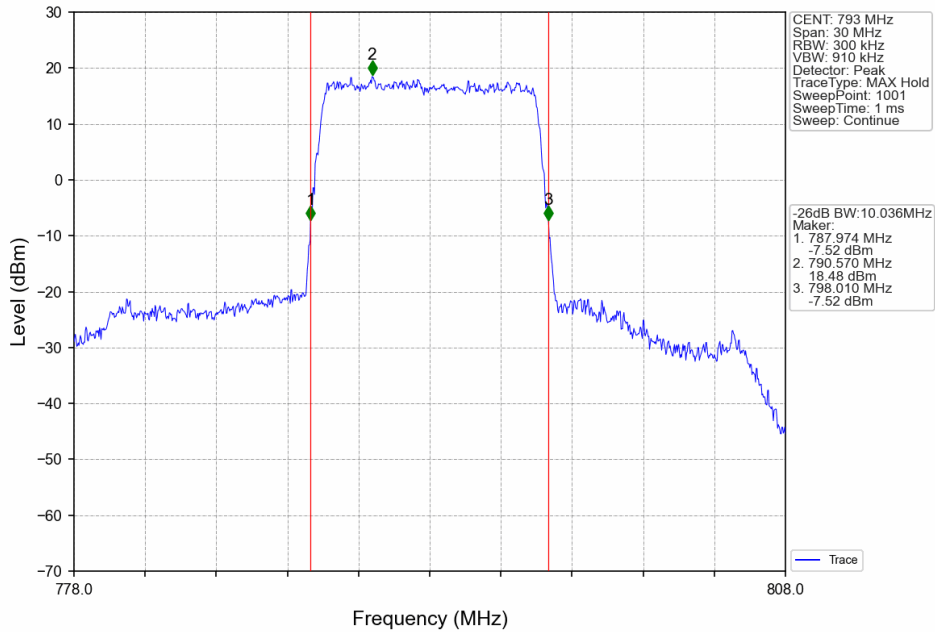
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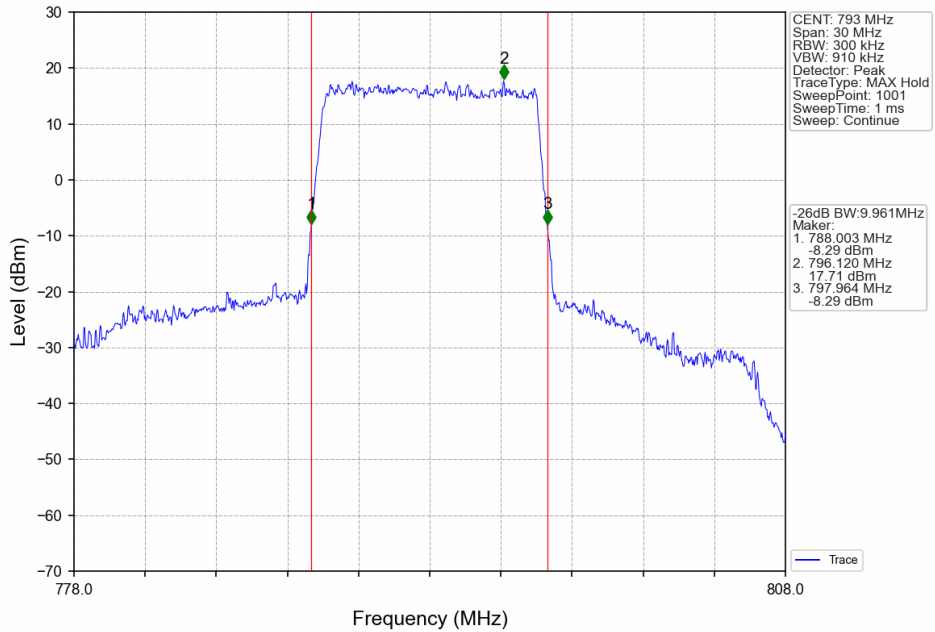
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4. Peak-Average Ratio

4.1 B14_5MHz

4.1.1 Test Result

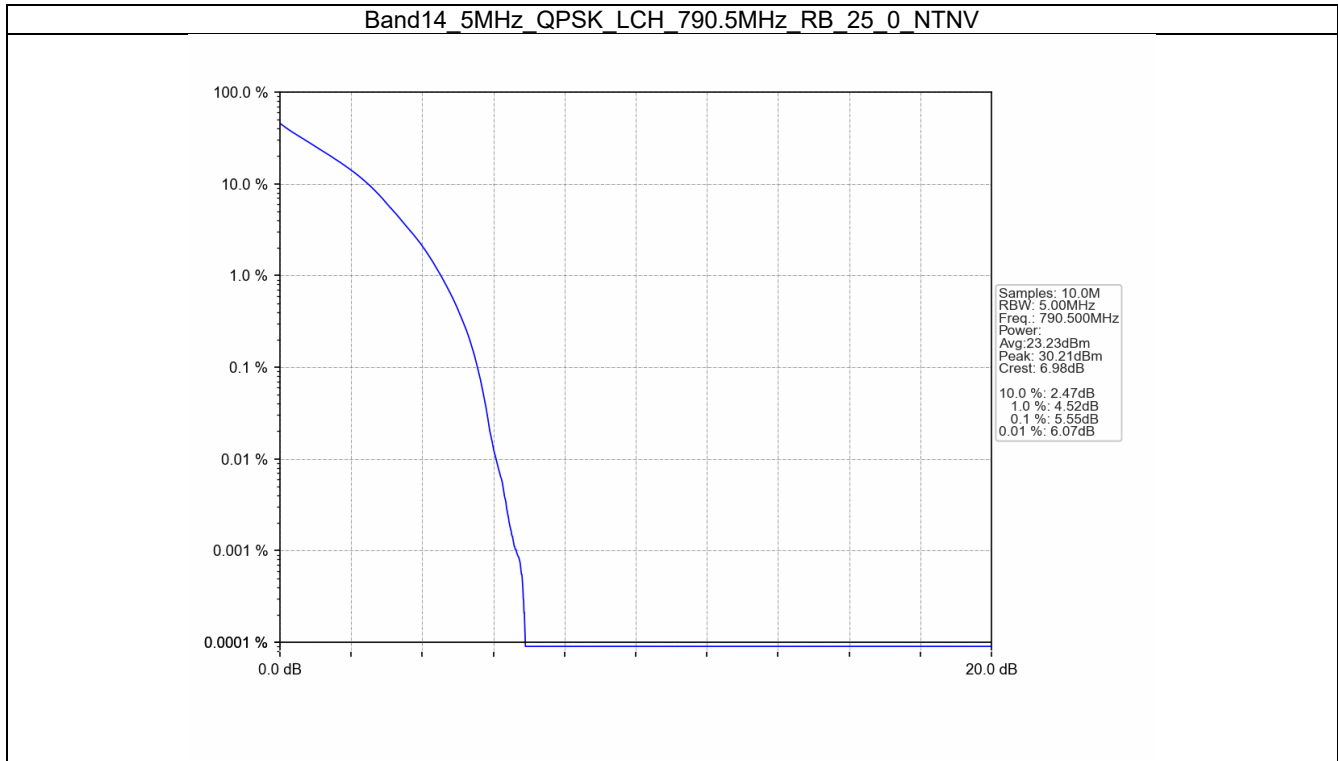
Band: 14 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	790.5	25	0	5.55	<=13	Pass
	793	25	0	5.55	<=13	Pass
	795.5	25	0	5.55	<=13	Pass
16QAM	790.5	25	0	6.31	<=13	Pass
	793	25	0	6.33	<=13	Pass
	795.5	25	0	6.29	<=13	Pass



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4.1.2 Test Graph



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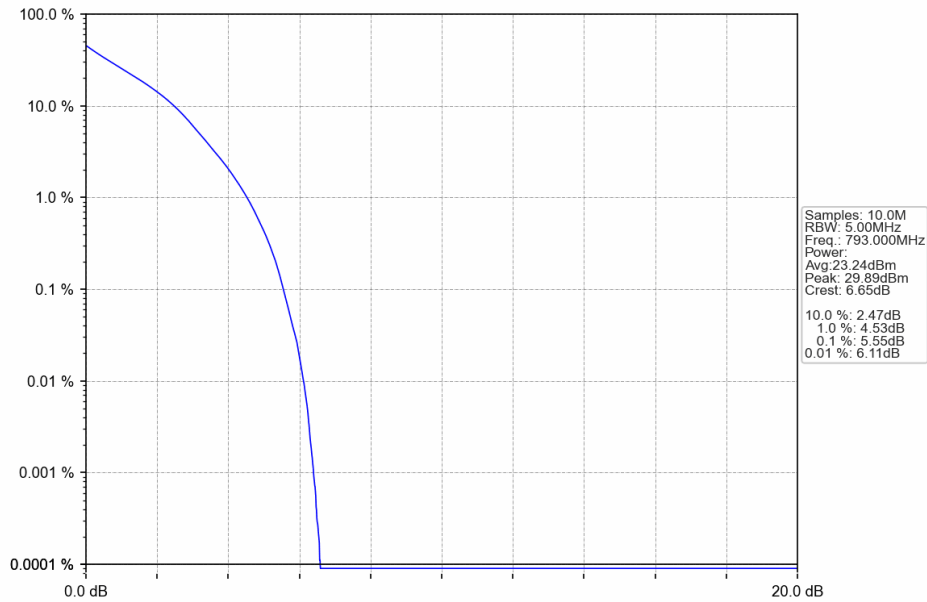
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Band14_5MHz_QPSK_MCH_793MHz_RB_25_0_NTNV



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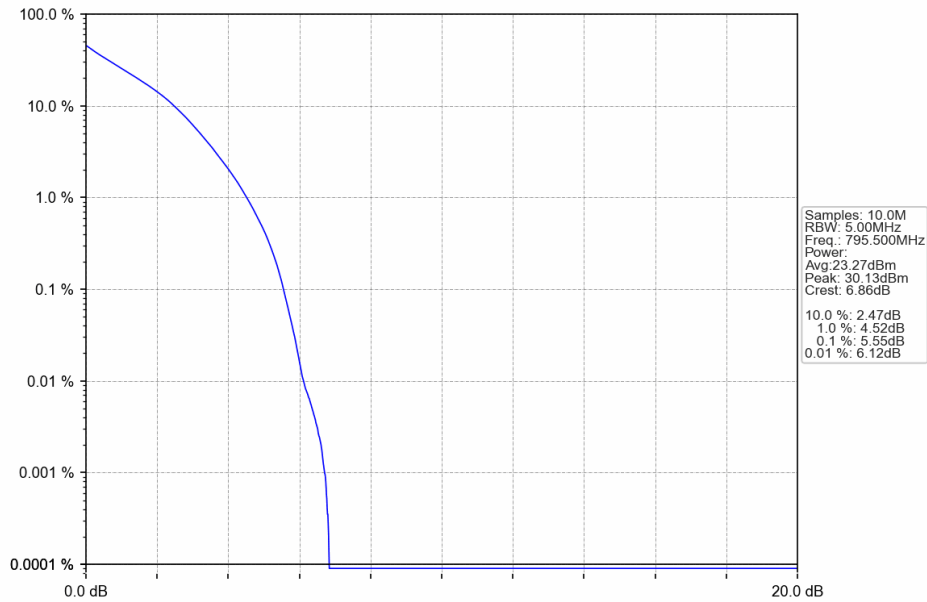
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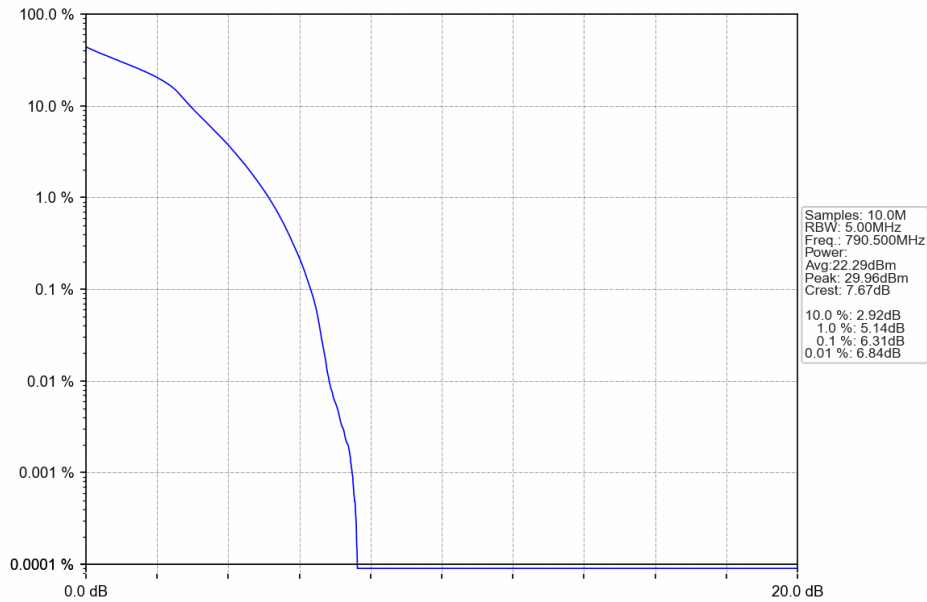
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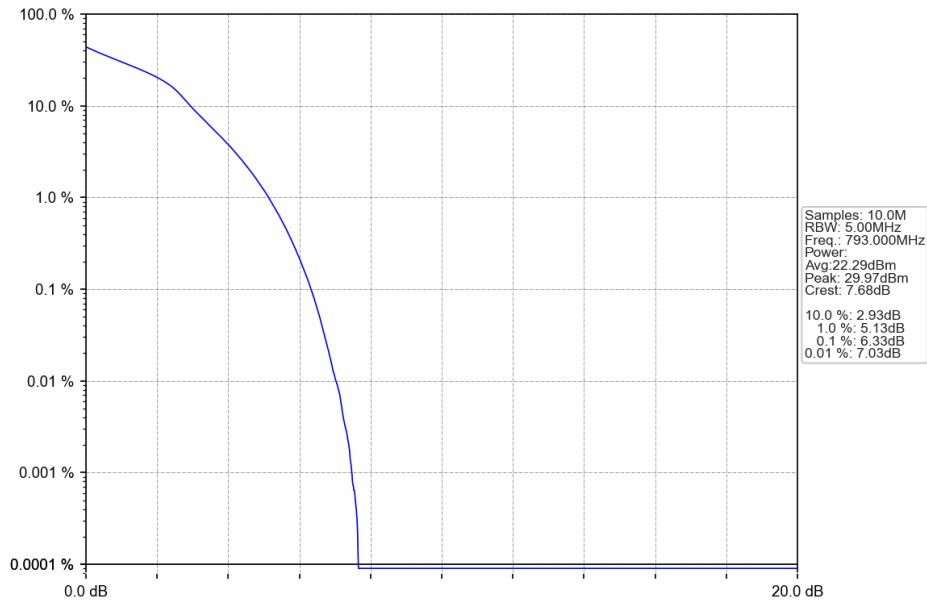
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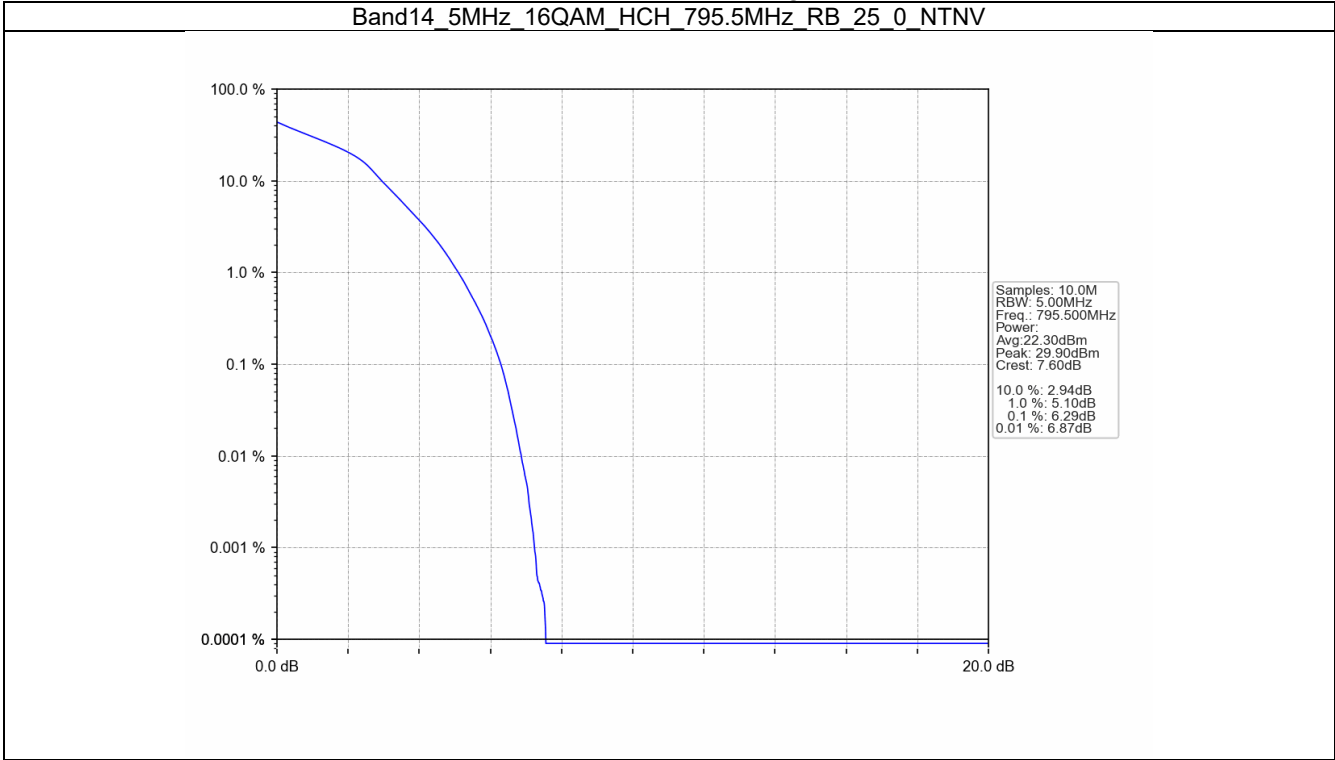
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4.2 B14_10MHz

4.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	793	50	0	5.51	<=13	Pass
16QAM	793	50	0	6.31	<=13	Pass



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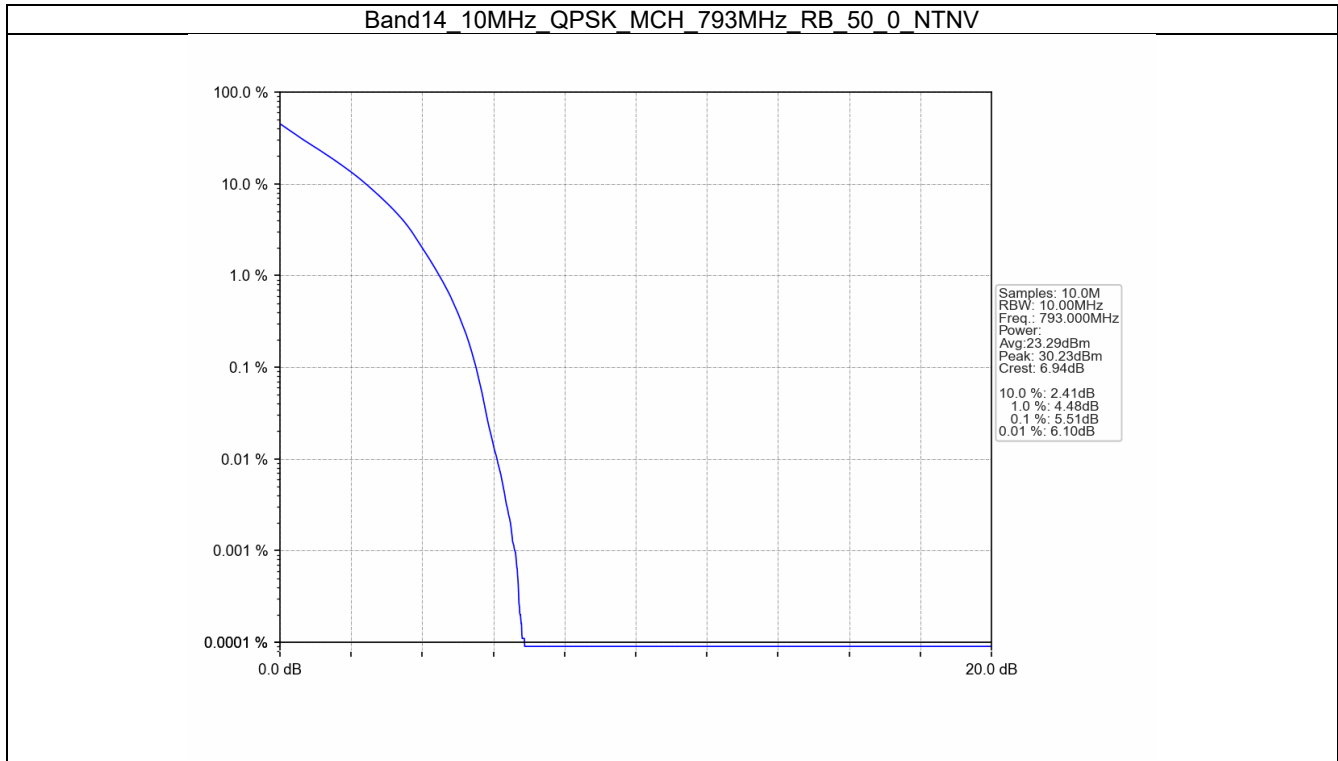
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4.2.2 Test Graph



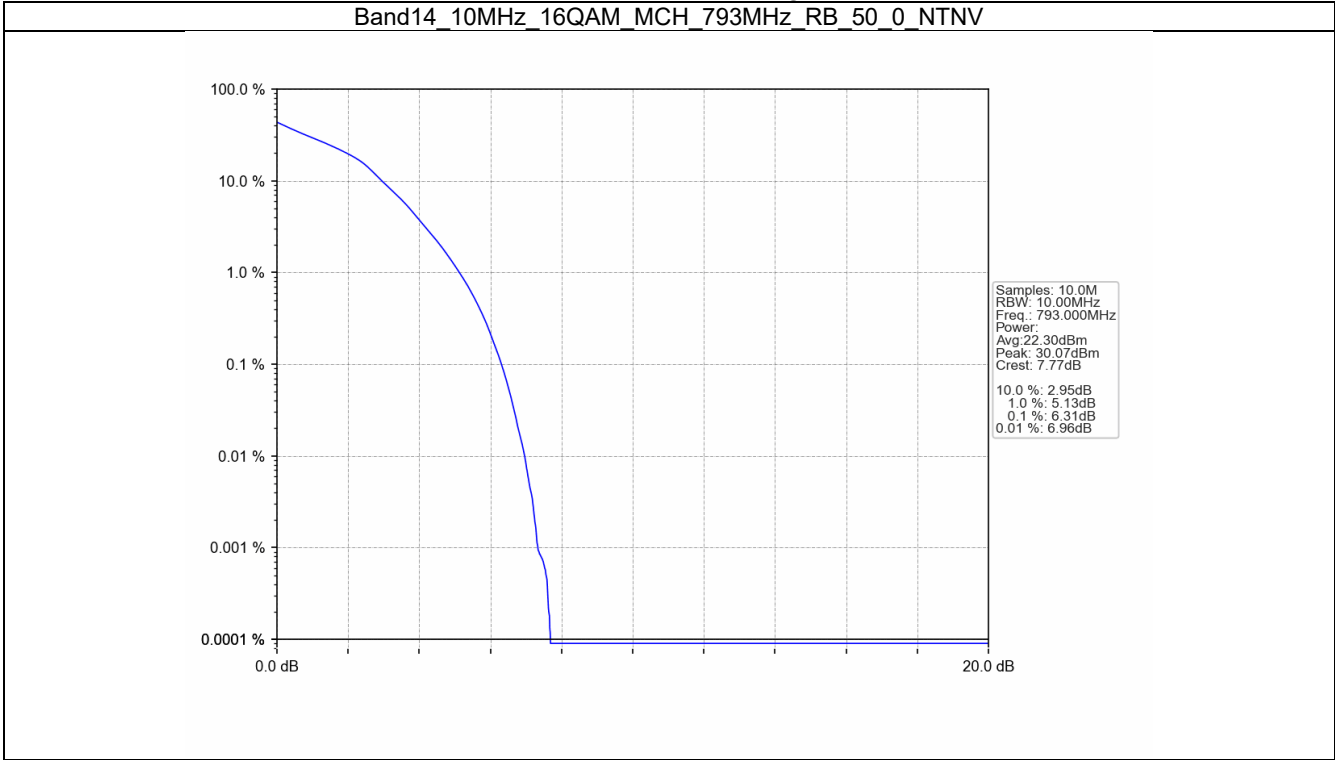
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5. Spurious Emission & Band Edge

5.1 B14_5MHz

5.1.1 Test Result

Band: 14 / Bandwidth: 5MHz / NTN						
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

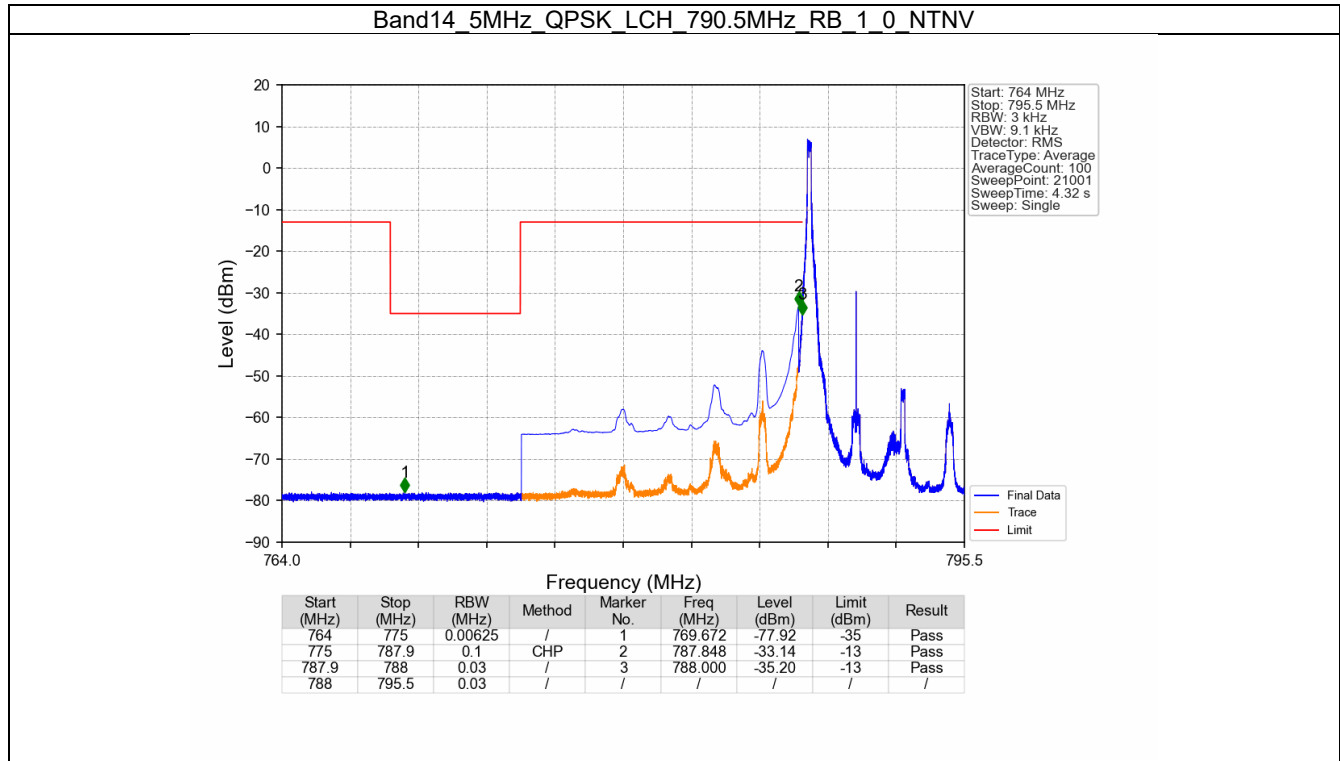


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5.1.2 Test Graph

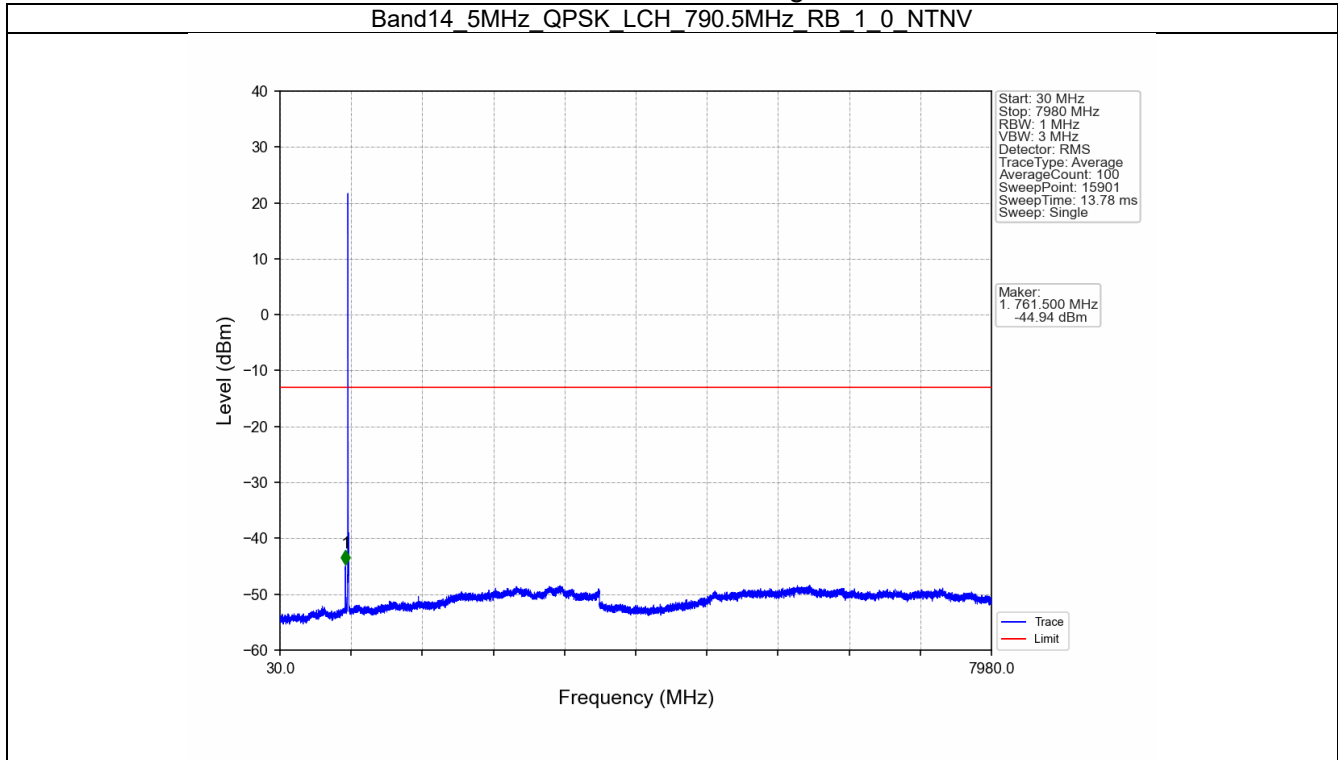


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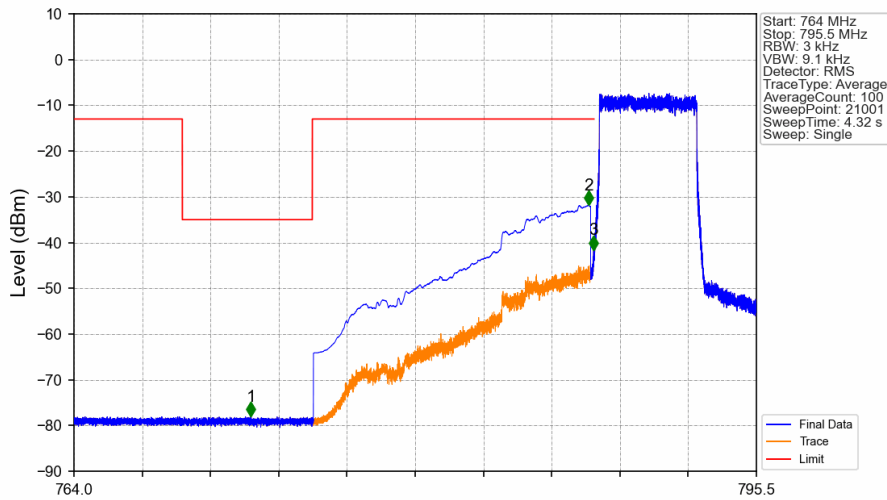
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	1	772.163	-78.00	-35	Pass
775	787.9	0.1	CHP	2	787.748	-31.76	-13	Pass
787.9	788	0.03	/	3	787.986	-41.60	-13	Pass
788	795.5	0.03	/	/	/	/	/	/



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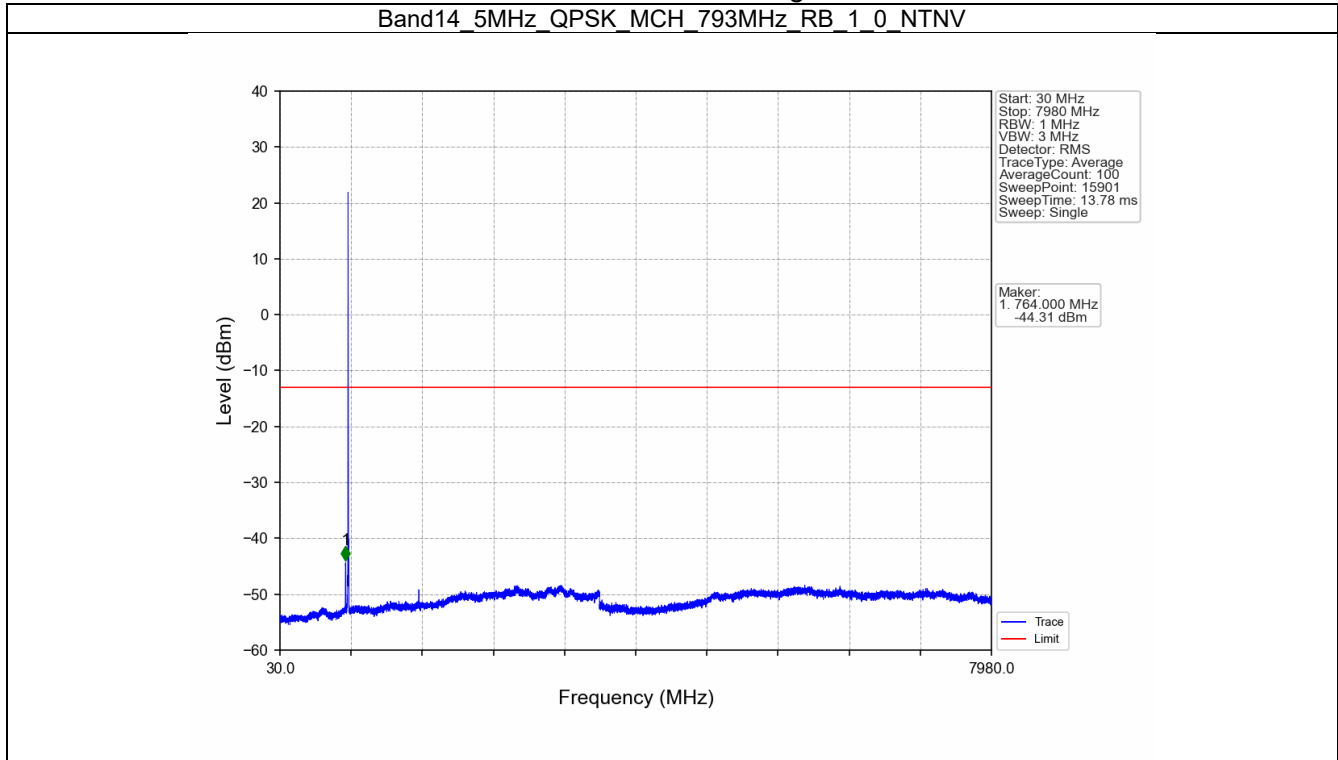
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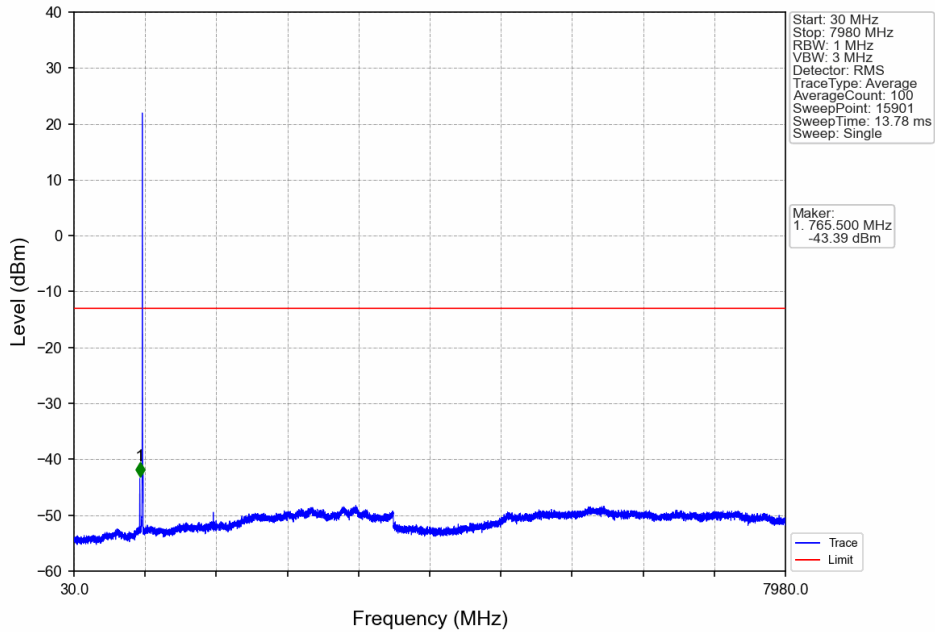
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Band14 5MHz QPSK HCH 795.5MHz_RB_1_0_NTNV



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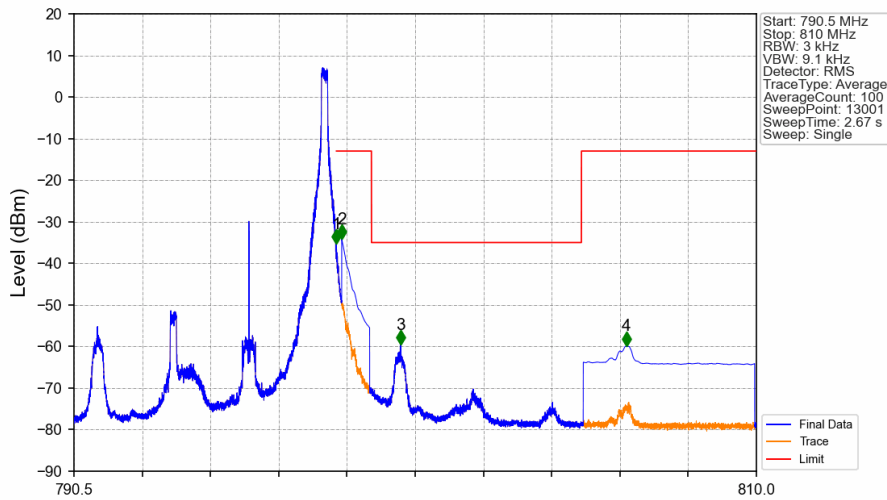
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Band14_5MHz_QPSK_HCH_795.5MHz_RB_1_24_NTNV



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	-35.30	-13	Pass
798.1	799	0.1	CHP	2	798.152	-34.16	-13	Pass
799	805	0.00625	/	3	799.824	-59.51	-35	Pass
805	810	0.1	CHP	4	806.289	-59.84	-13	Pass



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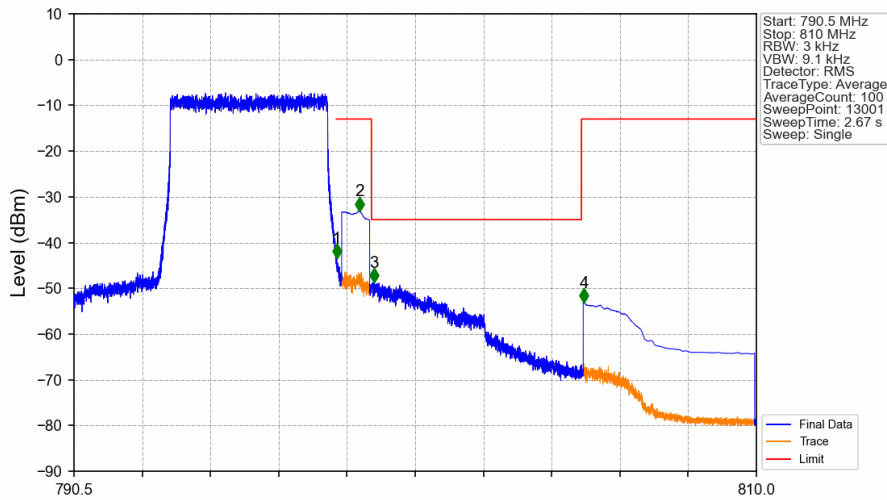
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Band14_5MHz_QPSK_HCH_795.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
790.5	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	1	798.008	-43.41	-13	Pass
798.1	799	0.1	CHP	2	798.659	-33.12	-13	Pass
799	805	0.00625	/	3	799.078	-48.74	-35	Pass
805	810	0.1	CHP	4	805.076	-53.20	-13	Pass



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5.2 B14_10MHz

5.2.1 Test Result

Band: 14 / Bandwidth: 10MHz / NTV						
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

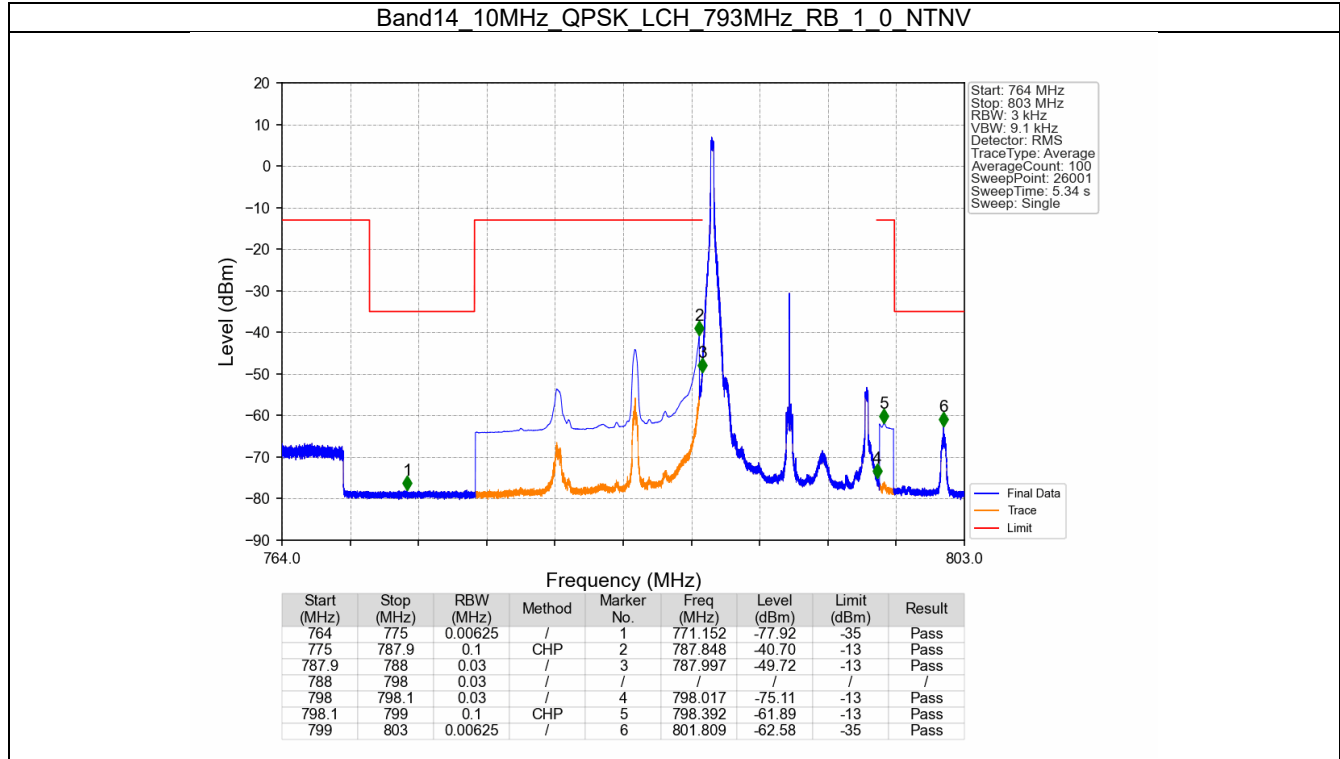


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5.2.2 Test Graph



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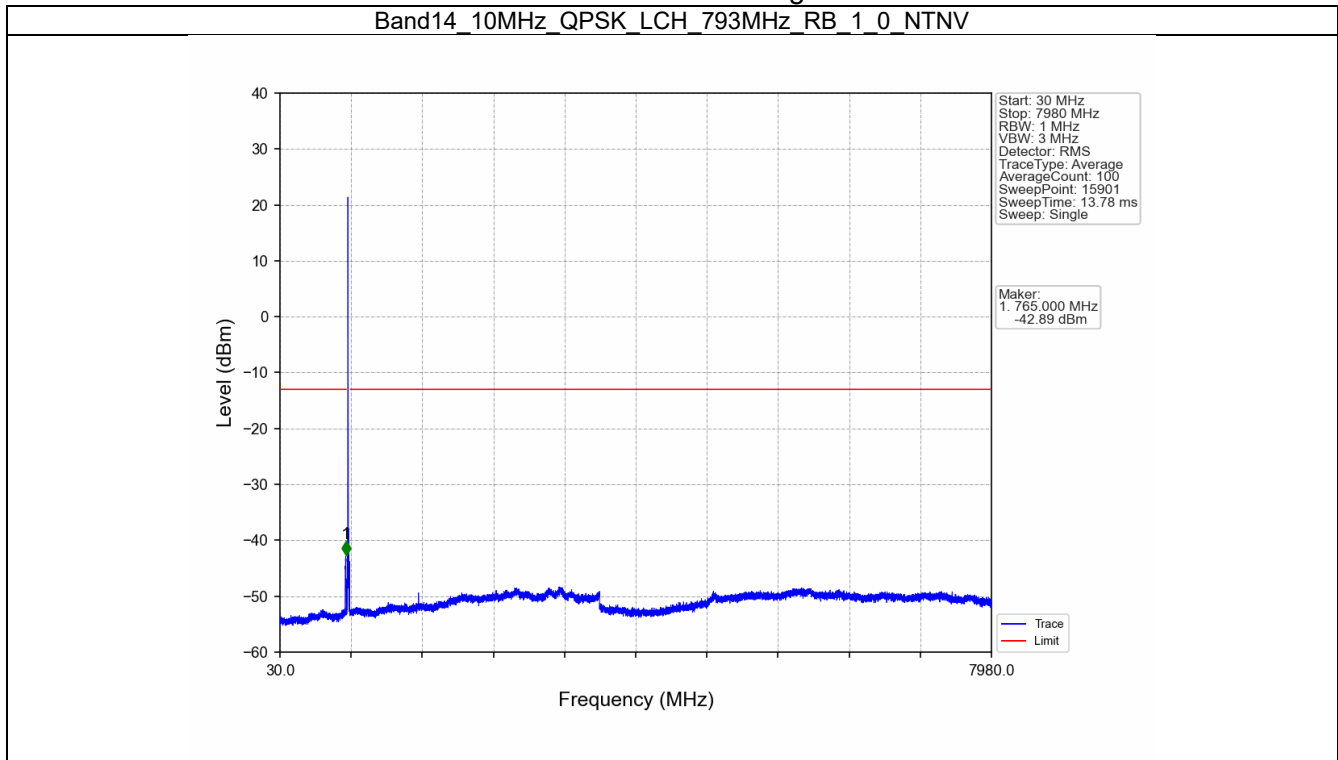
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Band14_10MHz_QPSK_LCH_793MHz_RB_1_0_NTNV



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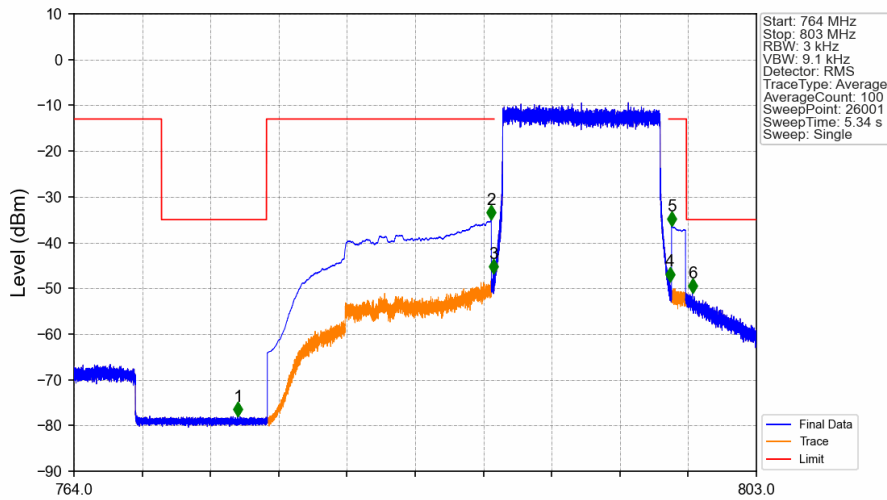
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Band14 10MHz_QPSK_LCH_793MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
764	775	0.00625	/	1	773.366	-78.02	-35	Pass
775	787.9	0.1	CHP	2	787.848	-34.94	-13	Pass
787.9	788	0.03	/	3	787.982	-46.79	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	4	798.047	-48.49	-13	Pass
798.1	799	0.1	CHP	5	798.150	-36.44	-13	Pass
799	803	0.00625	/	6	799.338	-51.00	-35	Pass



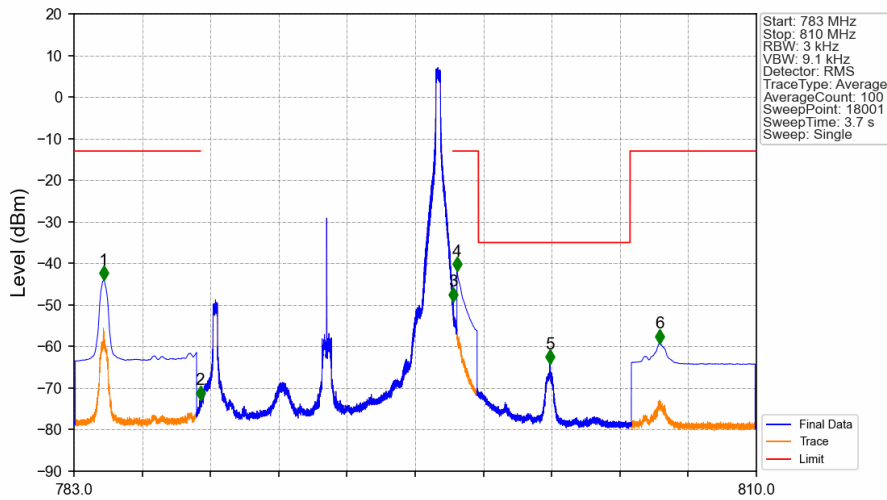
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Band14 10MHz_QPSK_HCH_793MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	784.182	-44.09	-13	Pass
787.9	788	0.03	/	2	788.000	-72.86	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.003	-49.17	-13	Pass
798.1	799	0.1	CHP	4	798.152	-41.83	-13	Pass
799	805	0.00625	/	5	801.822	-64.16	-35	Pass
805	810	0.1	CHP	6	806.160	-59.25	-13	Pass

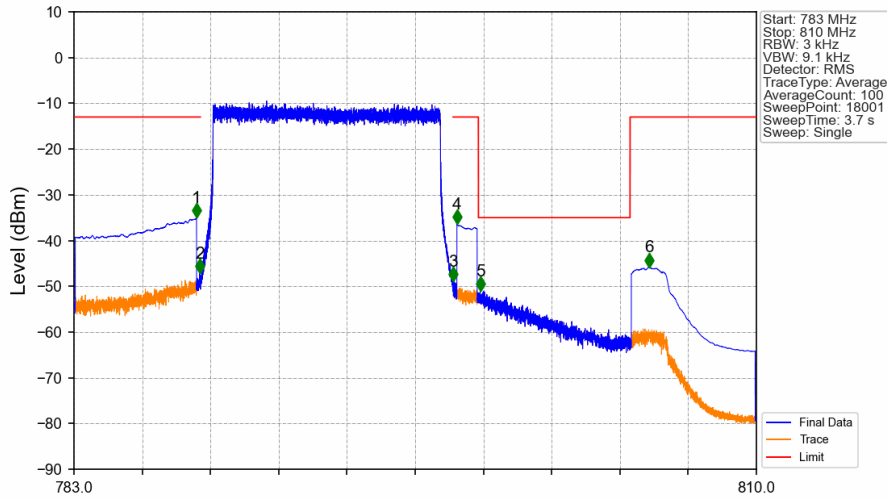


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Band14_10MHz_QPSK_HCH_793MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
783	787.9	0.1	CHP	1	787.848	-34.98	-13	Pass
787.9	788	0.03	/	2	787.970	-47.11	-13	Pass
788	798	0.03	/	/	/	/	/	/
798	798.1	0.03	/	3	798.005	-48.93	-13	Pass
798.1	799	0.1	CHP	4	798.152	-36.41	-13	Pass
799	805	0.00625	/	5	799.071	-51.01	-35	Pass
805	810	0.1	CHP	6	805.755	-45.84	-13	Pass



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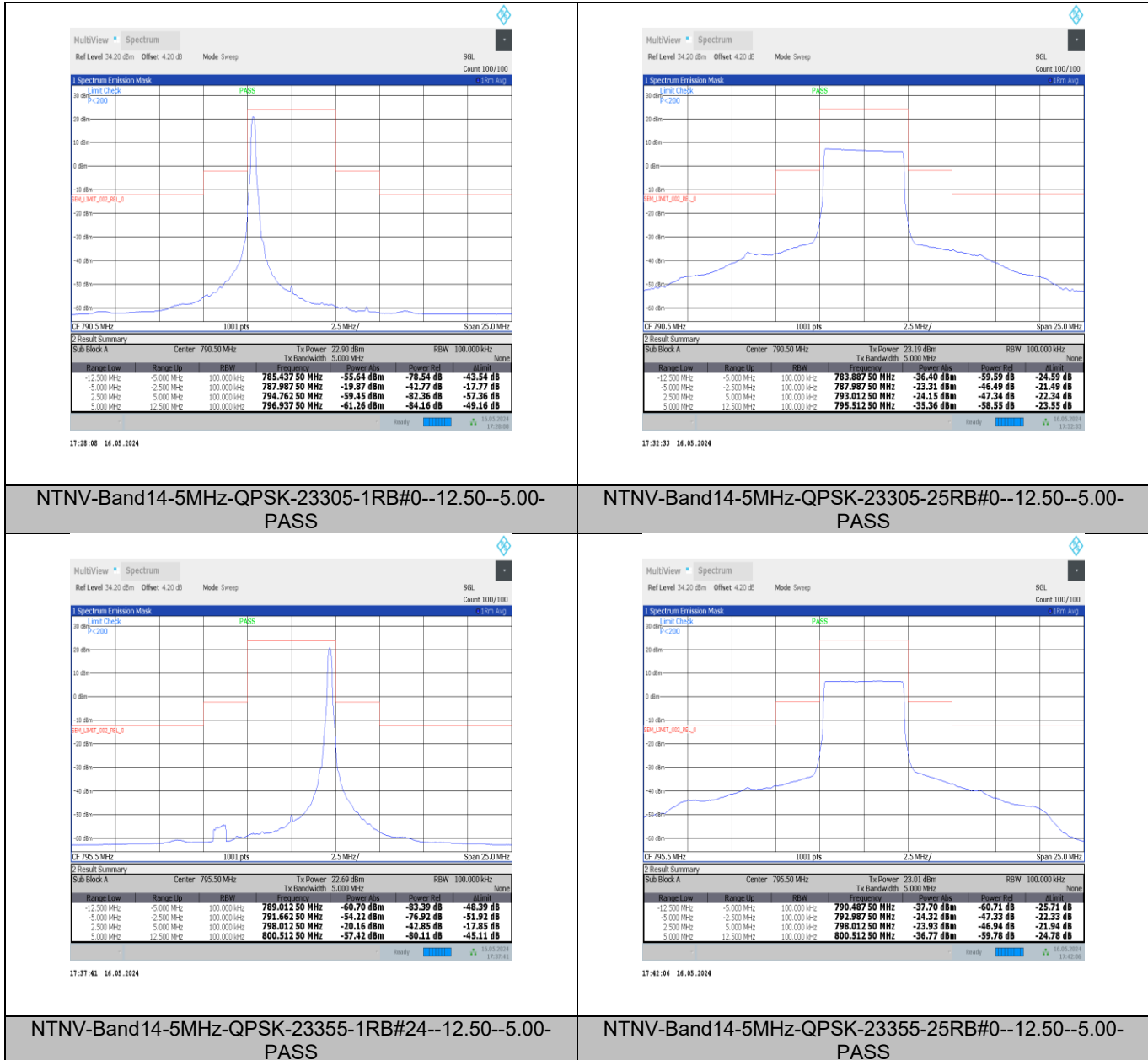
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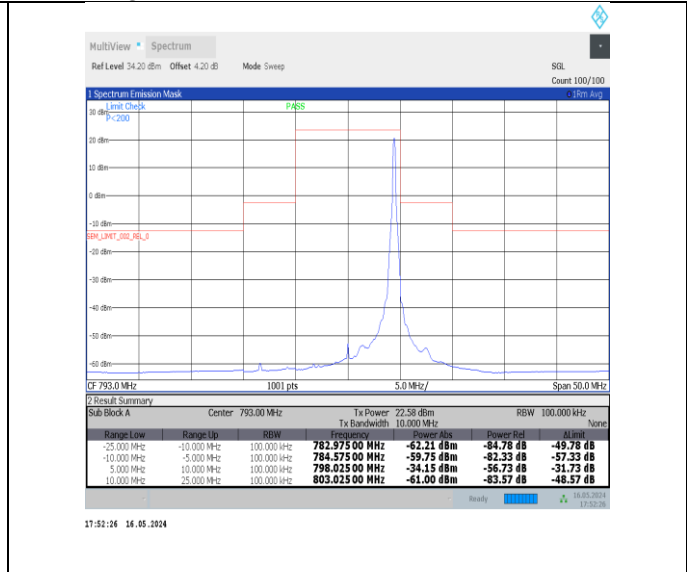
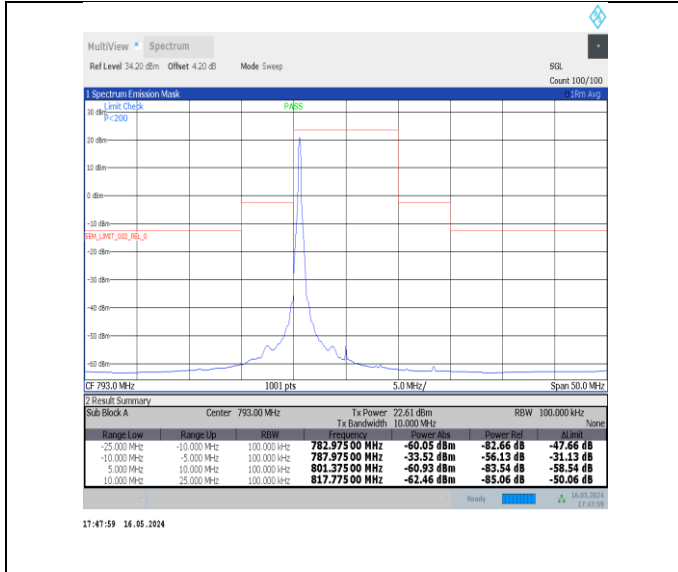
Test Graphs



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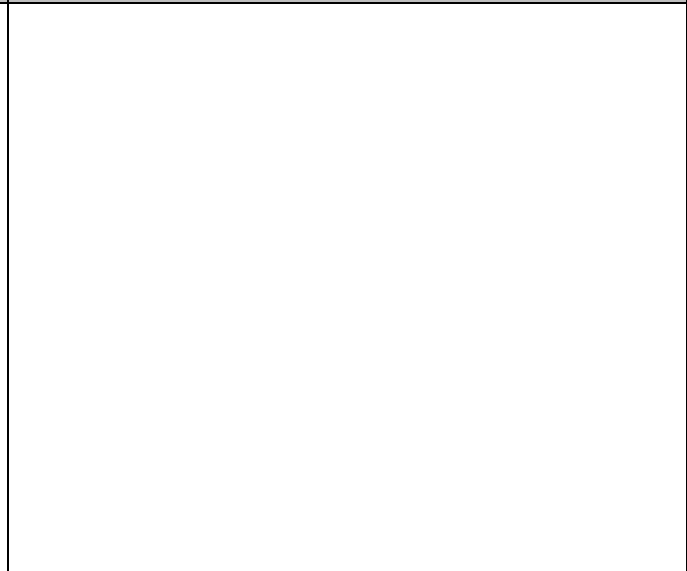
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NTNV-Band14-10MHz-QPSK-23330-50RB#0--25.00--10.00-PASS



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7. Field Strength of Spurious Radiation

Test Band = LTE Band 14 BW=5M_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.1429	49.94	-48.29	25.38	-68.23	-40.00	28.23	Horizontal
2	2042.8571	45.64	-47.82	26.29	-71.15	-13.00	58.15	Horizontal
3	2950.2857	43.96	-46.54	28.01	-69.83	-13.00	56.83	Horizontal
4	3495.4286	43.61	-46.54	28.60	-69.59	-13.00	56.59	Horizontal
5	4526.2857	43.39	-45.65	30.64	-66.88	-13.00	53.88	Horizontal
6	6327.4286	42.53	-44.65	33.51	-63.86	-13.00	50.86	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1595.4286	45.48	-48.28	25.40	-72.67	-40.00	32.67	Vertical
2	2200	45.38	-47.68	26.60	-70.96	-13.00	57.96	Vertical
3	2692	44.47	-47.04	27.55	-70.28	-13.00	57.28	Vertical
4	4105.7143	42.79	-45.90	29.65	-68.72	-13.00	55.72	Vertical
5	6327.4286	42.49	-44.65	33.51	-63.90	-13.00	50.90	Vertical
6	7552	41.81	-43.17	36.47	-60.15	-13.00	47.15	Vertical



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Test Band = LTE Band 14 BW=5M_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1579.4286	50.60	-48.29	25.38	-67.57	-40.00	27.57	Horizontal
2	1957.1429	45.31	-47.96	26.07	-71.84	-13.00	58.84	Horizontal
3	2920	44.08	-46.56	27.96	-69.78	-13.00	56.78	Horizontal
4	3741.7143	43.41	-46.15	28.99	-69.02	-13.00	56.02	Horizontal
5	5326.8571	43.68	-45.20	31.99	-64.80	-13.00	51.80	Horizontal
6	6756	42.10	-44.09	34.56	-62.69	-13.00	49.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1598.2857	45.80	-48.28	25.40	-72.34	-40.00	32.34	Vertical
2	2087.4286	45.38	-47.73	26.37	-71.24	-13.00	58.24	Vertical
3	3109.1429	43.92	-46.71	28.21	-69.84	-13.00	56.84	Vertical
4	4100	42.75	-45.90	29.64	-68.77	-13.00	55.77	Vertical
5	6009.7143	42.73	-44.46	32.43	-64.55	-13.00	51.55	Vertical
6	6711.4286	41.71	-44.07	34.48	-63.14	-13.00	50.14	Vertical



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Test Band = LTE Band 14 BW=5M_ TM1
 Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1584	50.61	-48.29	25.38	-67.55	-40.00	27.55	Horizontal
2	1915.4286	45.40	-48.03	25.95	-71.94	-13.00	58.94	Horizontal
3	2758.8571	44.18	-46.97	27.67	-70.39	-13.00	57.39	Horizontal
4	3351.4286	43.27	-46.61	28.45	-70.15	-13.00	57.15	Horizontal
5	4800	42.88	-45.64	31.08	-66.94	-13.00	53.94	Horizontal
6	5737.7143	42.38	-44.60	32.35	-65.14	-13.00	52.14	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1597.1429	45.67	-48.28	25.40	-72.47	-40.00	32.47	Vertical
2	2200	45.24	-47.68	26.60	-71.10	-13.00	58.10	Vertical
3	2704	44.39	-47.04	27.57	-70.35	-13.00	57.35	Vertical
4	3978.2857	43.43	-46.21	29.37	-68.67	-13.00	55.67	Vertical
5	5544	43.00	-45.20	32.31	-65.15	-13.00	52.15	Vertical
6	6433.1429	42.16	-44.71	33.87	-63.94	-13.00	50.94	Vertical



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Test Band = LTE Band 14 BW=10M_ TM1
 Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1588.5714	48.49	-48.28	25.39	-69.67	-40.00	29.67	Horizontal
2	2474.2857	44.96	-47.32	27.15	-70.47	-13.00	57.47	Horizontal
3	3696.5714	43.73	-46.16	28.91	-68.77	-13.00	55.77	Horizontal
4	5081.1429	42.85	-45.46	31.55	-66.33	-13.00	53.33	Horizontal
5	6342.2857	42.47	-44.66	33.56	-63.89	-13.00	50.89	Horizontal
6	7370.8571	41.89	-43.32	36.04	-60.65	-13.00	47.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1561.1429	45.82	-48.30	25.36	-72.37	-40.00	32.37	Vertical
2	2040	45.82	-47.82	26.28	-70.98	-13.00	57.98	Vertical
3	2707.4286	44.62	-47.04	27.57	-70.11	-13.00	57.11	Vertical
4	3390.2857	43.70	-46.55	28.49	-69.62	-13.00	56.62	Vertical
5	4529.7143	43.58	-45.66	30.65	-66.69	-13.00	53.69	Vertical
6	5685.7143	42.97	-44.67	32.34	-64.62	-13.00	51.62	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

---End of Attachment---



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