

Appendix - LTE Band_13

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	23.00	-2.26	18.59	<=34.77	Pass
			13	23.09	-2.26	18.68	<=34.77	Pass
			24	22.99	-2.26	18.58	<=34.77	Pass
		12	0	22.08	-2.26	17.67	<=34.77	Pass
			6	22.07	-2.26	17.66	<=34.77	Pass
			13	22.06	-2.26	17.65	<=34.77	Pass
		25	0	22.04	-2.26	17.63	<=34.77	Pass
	782	1	0	22.95	-2.26	18.54	<=34.77	Pass
			13	23.03	-2.26	18.62	<=34.77	Pass
			24	22.95	-2.26	18.54	<=34.77	Pass
		12	0	21.97	-2.26	17.56	<=34.77	Pass
			6	22.05	-2.26	17.64	<=34.77	Pass
			13	21.96	-2.26	17.55	<=34.77	Pass
		25	0	21.99	-2.26	17.58	<=34.77	Pass
	784.5	1	0	22.92	-2.26	18.51	<=34.77	Pass
			13	23.00	-2.26	18.59	<=34.77	Pass
			24	22.86	-2.26	18.45	<=34.77	Pass
		12	0	21.94	-2.26	17.53	<=34.77	Pass
			6	22.01	-2.26	17.60	<=34.77	Pass
			13	21.92	-2.26	17.51	<=34.77	Pass
		25	0	21.94	-2.26	17.53	<=34.77	Pass
16QAM	779.5	1	0	21.80	-2.26	17.39	<=34.77	Pass
			13	21.92	-2.26	17.51	<=34.77	Pass
			24	21.77	-2.26	17.36	<=34.77	Pass
		12	0	20.99	-2.26	16.58	<=34.77	Pass
			6	21.06	-2.26	16.65	<=34.77	Pass
			13	21.03	-2.26	16.62	<=34.77	Pass
		25	0	21.04	-2.26	16.63	<=34.77	Pass
	782	1	0	22.02	-2.26	17.61	<=34.77	Pass
			13	22.14	-2.26	17.73	<=34.77	Pass
			24	21.98	-2.26	17.57	<=34.77	Pass
		12	0	21.00	-2.26	16.59	<=34.77	Pass
			6	21.01	-2.26	16.60	<=34.77	Pass
			13	21.00	-2.26	16.59	<=34.77	Pass
		25	0	20.99	-2.26	16.58	<=34.77	Pass
	784.5	1	0	22.15	-2.26	17.74	<=34.77	Pass
			13	22.20	-2.26	17.79	<=34.77	Pass
			24	22.09	-2.26	17.68	<=34.77	Pass
		12	0	21.04	-2.26	16.63	<=34.77	Pass
			6	21.05	-2.26	16.64	<=34.77	Pass
			13	20.97	-2.26	16.56	<=34.77	Pass
		25	0	20.99	-2.26	16.58	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
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Version: 1/00

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	23.08	-2.26	18.67	<=34.77	Pass
			25	23.26	-2.26	18.85	<=34.77	Pass
			49	22.99	-2.26	18.58	<=34.77	Pass
		25	0	22.09	-2.26	17.68	<=34.77	Pass
			13	22.13	-2.26	17.72	<=34.77	Pass
			25	22.06	-2.26	17.65	<=34.77	Pass
		50	0	22.11	-2.26	17.70	<=34.77	Pass
16QAM	782	1	0	22.21	-2.26	17.80	<=34.77	Pass
			25	22.37	-2.26	17.96	<=34.77	Pass
			49	22.11	-2.26	17.70	<=34.77	Pass
		25	0	21.06	-2.26	16.65	<=34.77	Pass
			13	21.10	-2.26	16.69	<=34.77	Pass
			25	21.10	-2.26	16.69	<=34.77	Pass
		50	0	21.10	-2.26	16.69	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B13_5MHz

Band: 13 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	779.5	25	0	20	3.27	-7.925	-0.0102	-2.5 to 2.5	Pass
					3.85	-7.138	-0.0092	-2.5 to 2.5	Pass
					4.43	-6.752	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-6.423	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-3.891	-0.0050	-2.5 to 2.5	Pass
				-10	3.85	-7.625	-0.0098	-2.5 to 2.5	Pass
				0	3.85	-6.952	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-4.921	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-6.223	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-3.834	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-6.766	-0.0087	-2.5 to 2.5	Pass
	782	25	0	20	3.27	-8.326	-0.0106	-2.5 to 2.5	Pass
					3.85	-7.854	-0.0100	-2.5 to 2.5	Pass
					4.43	-5.679	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-7.496	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-7.453	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-6.995	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-4.592	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-11.759	-0.0150	-2.5 to 2.5	Pass
				30	3.85	-3.948	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-9.069	-0.0116	-2.5 to 2.5	Pass
				50	3.85	-9.241	-0.0118	-2.5 to 2.5	Pass
	784.5	25	0	20	3.27	-6.952	-0.0089	-2.5 to 2.5	Pass
					3.85	-8.698	-0.0111	-2.5 to 2.5	Pass
					4.43	-6.037	-0.0077	-2.5 to 2.5	Pass
				-30	3.85	-7.224	-0.0092	-2.5 to 2.5	Pass
				-20	3.85	-9.027	-0.0115	-2.5 to 2.5	Pass
				-10	3.85	-7.339	-0.0094	-2.5 to 2.5	Pass
				0	3.85	-9.356	-0.0119	-2.5 to 2.5	Pass
				10	3.85	-6.037	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-6.580	-0.0084	-2.5 to 2.5	Pass

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Version: 1/00

16QAM	779.5	25	0	40	3.85	-4.706	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-7.339	-0.0094	-2.5 to 2.5	Pass
				20	3.27	-4.964	-0.0064	-2.5 to 2.5	Pass
					3.85	-8.168	-0.0105	-2.5 to 2.5	Pass
					4.43	-6.881	-0.0088	-2.5 to 2.5	Pass
				-30	3.85	-8.054	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	-8.712	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-4.506	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-7.353	-0.0094	-2.5 to 2.5	Pass
				10	3.85	-11.072	-0.0142	-2.5 to 2.5	Pass
	782	25	0	30	3.85	-6.423	-0.0082	-2.5 to 2.5	Pass
				40	3.85	-2.847	-0.0037	-2.5 to 2.5	Pass
				50	3.85	-5.894	-0.0076	-2.5 to 2.5	Pass
				20	3.27	-5.093	-0.0065	-2.5 to 2.5	Pass
					3.85	-9.069	-0.0116	-2.5 to 2.5	Pass
					4.43	-3.848	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-5.093	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-10.142	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-9.198	-0.0118	-2.5 to 2.5	Pass
				0	3.85	-5.822	-0.0074	-2.5 to 2.5	Pass
	784.5	25	0	10	3.85	-7.467	-0.0095	-2.5 to 2.5	Pass
				30	3.85	-6.409	-0.0082	-2.5 to 2.5	Pass
				40	3.85	-6.781	-0.0087	-2.5 to 2.5	Pass
				50	3.85	-9.241	-0.0118	-2.5 to 2.5	Pass
				20	3.27	-7.052	-0.0090	-2.5 to 2.5	Pass
					3.85	-7.811	-0.0100	-2.5 to 2.5	Pass
					4.43	-6.237	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-6.309	-0.0080	-2.5 to 2.5	Pass
				-20	3.85	-2.117	-0.0027	-2.5 to 2.5	Pass
				-10	3.85	-7.296	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-10.886	-0.0139	-2.5 to 2.5	Pass
				10	3.85	-4.449	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-8.354	-0.0106	-2.5 to 2.5	Pass
				40	3.85	-4.764	-0.0061	-2.5 to 2.5	Pass
				50	3.85	-4.177	-0.0053	-2.5 to 2.5	Pass

2.1.2 B13_10MHz

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.27	-7.396	-0.0095	-2.5 to 2.5	Pass
					3.85	-6.509	-0.0083	-2.5 to 2.5	Pass
					4.43	-7.124	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-6.723	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-7.768	-0.0099	-2.5 to 2.5	Pass
				-10	3.85	-1.273	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-7.224	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-8.798	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-6.595	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-6.981	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-8.340	-0.0107	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.27	-5.307	-0.0068	-2.5 to 2.5	Pass
					3.85	-7.453	-0.0095	-2.5 to 2.5	Pass
					4.43	-6.509	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-7.353	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-5.479	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	-5.221	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-9.012	-0.0115	-2.5 to 2.5	Pass

				10	3.85	-5.808	-0.0074	-2.5 to 2.5	Pass
				30	3.85	-4.878	-0.0062	-2.5 to 2.5	Pass
				40	3.85	-9.813	-0.0125	-2.5 to 2.5	Pass
				50	3.85	-6.366	-0.0081	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B13_5MHz

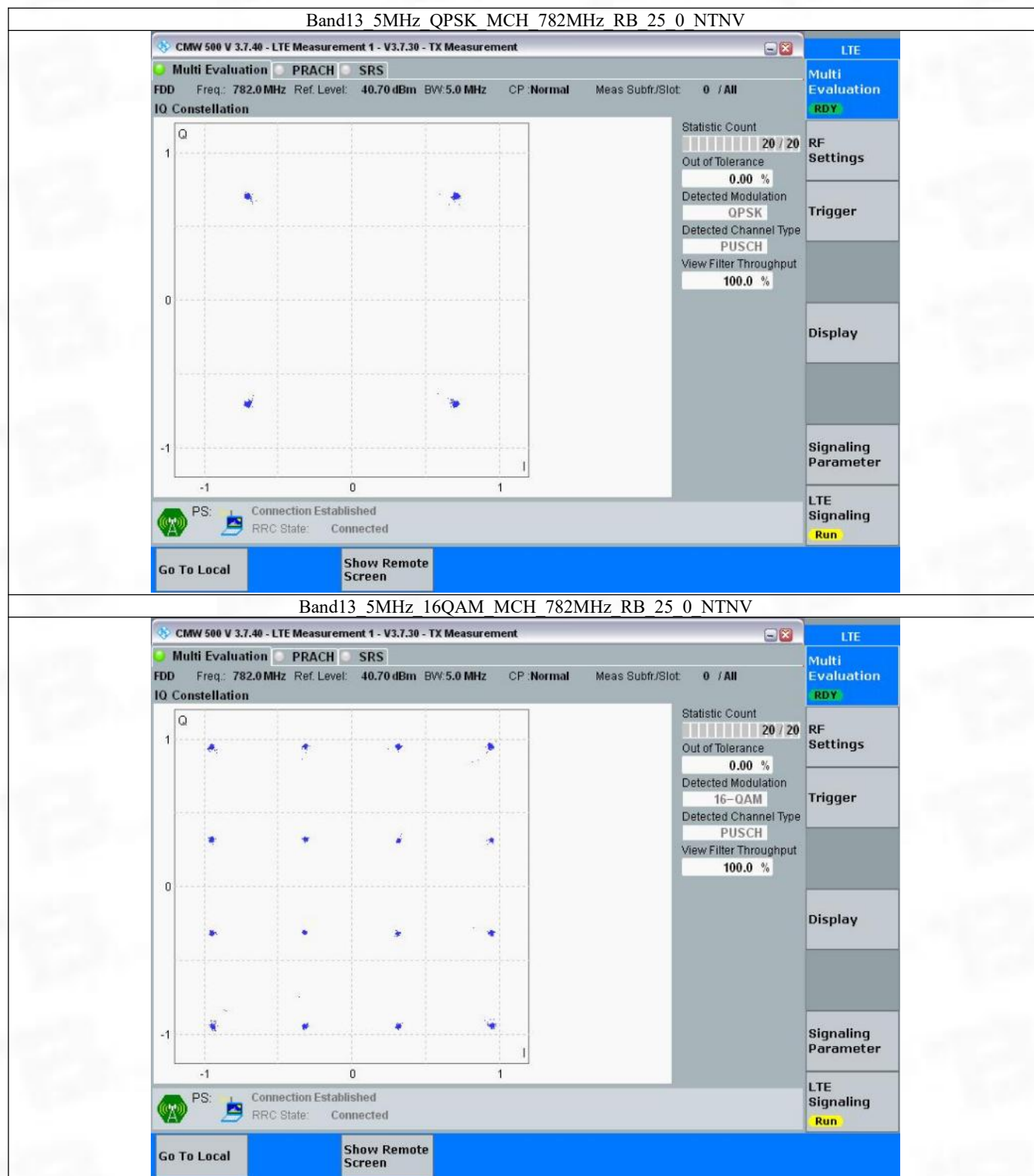
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	25	0	Refer To Test Graph		Pass
16QAM	782	25	0	Refer To Test Graph		Pass

3.1.2 B13_10MHz

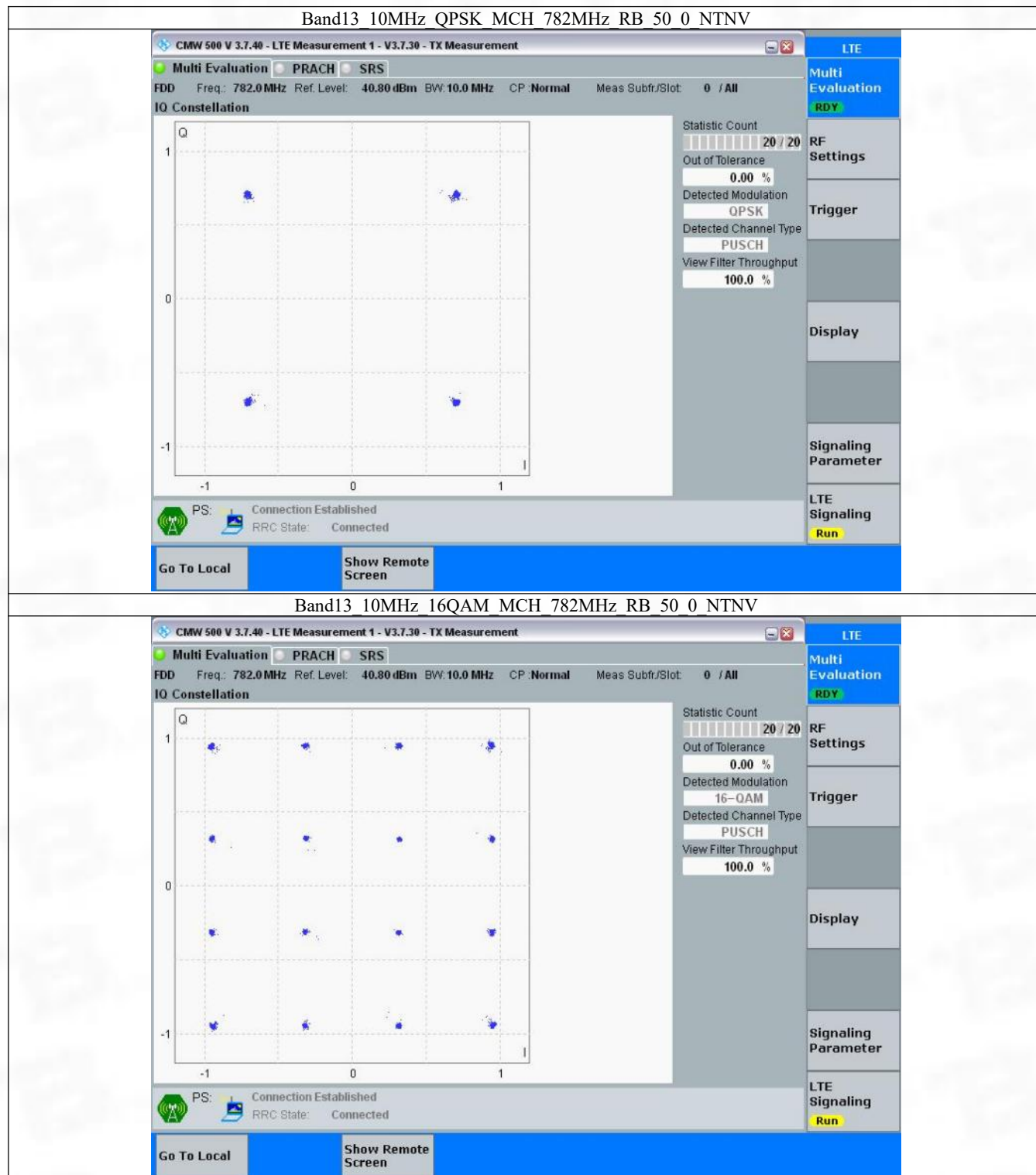
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	Refer To Test Graph		Pass
16QAM	782	50	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B13_5MHz



3.2.2 B13_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band13_OBW

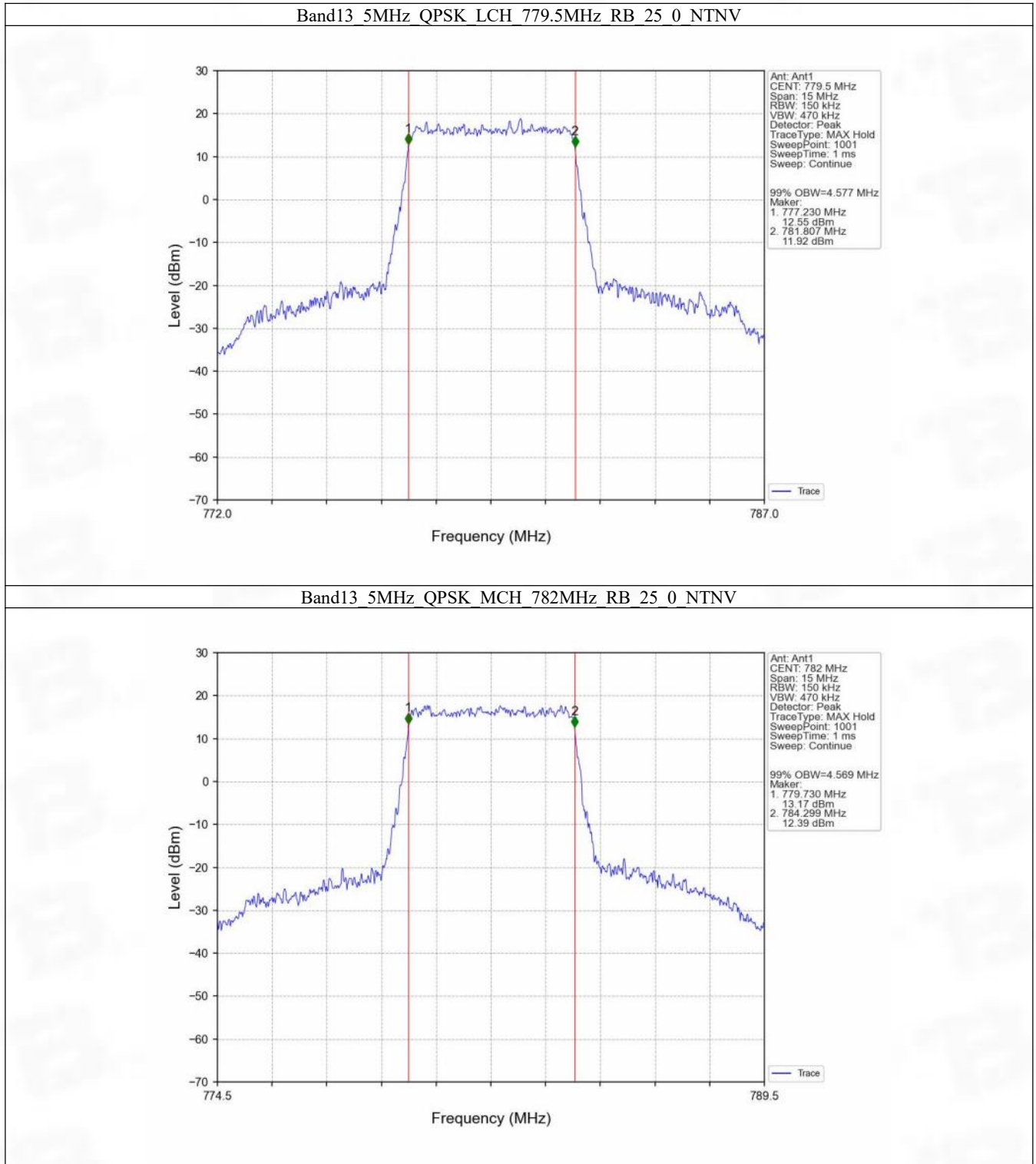
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.577	/	Pass
		782	25	0	4.569	/	Pass
		784.5	25	0	4.561	/	Pass
	16QAM	779.5	25	0	4.567	/	Pass
		782	25	0	4.586	/	Pass
		784.5	25	0	4.585	/	Pass
10	QPSK	782	50	0	9.093	/	Pass
	16QAM	782	50	0	9.072	/	Pass

4.1.2 Band13_XDB

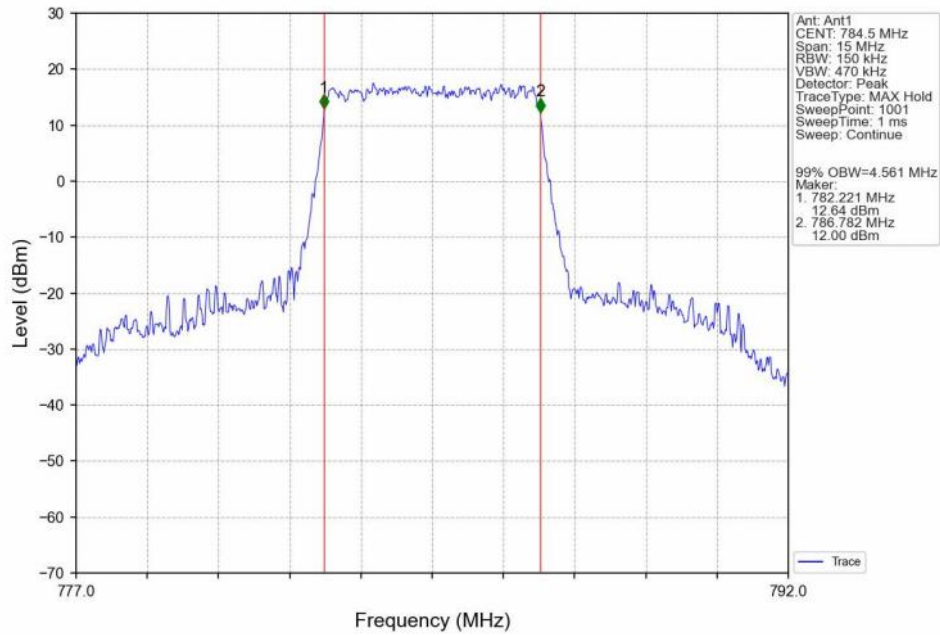
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.287	/	Pass
		782	25	0	5.277	/	Pass
		784.5	25	0	5.224	/	Pass
	16QAM	779.5	25	0	5.234	/	Pass
		782	25	0	5.300	/	Pass
		784.5	25	0	5.277	/	Pass
10	QPSK	782	50	0	10.217	/	Pass
	16QAM	782	50	0	10.230	/	Pass

4.2 Test Graph

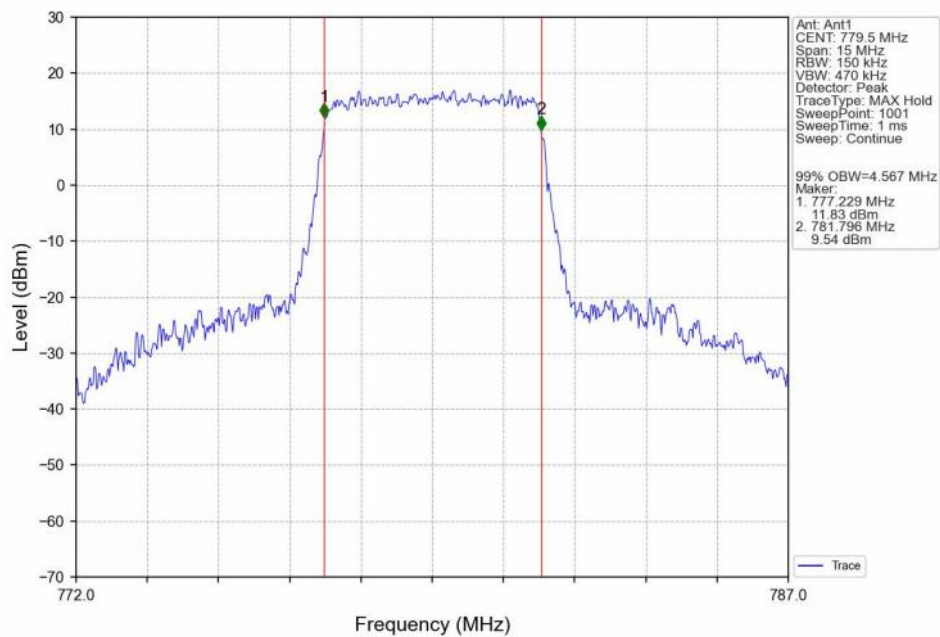
4.2.1 Band13_OBW



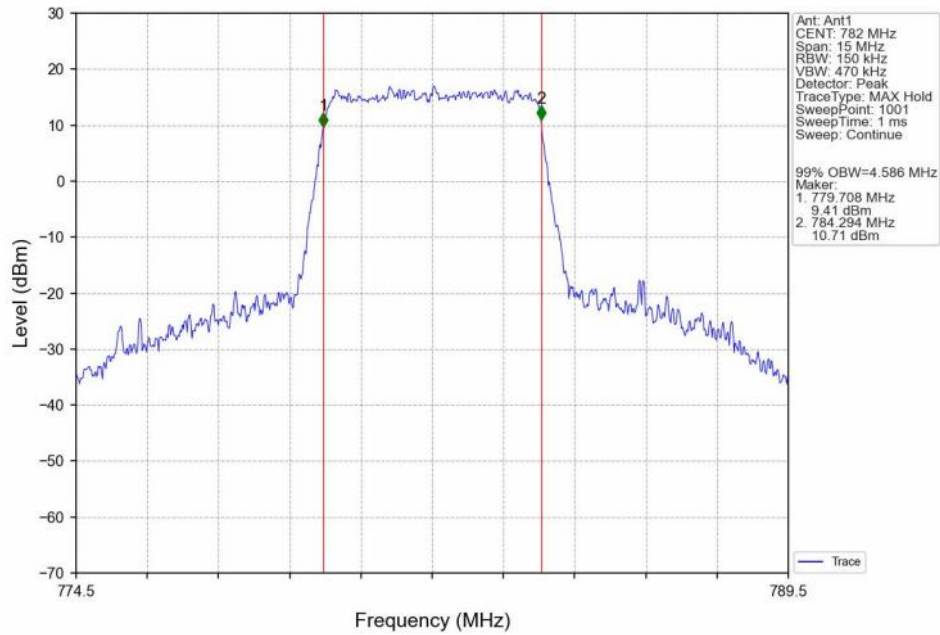
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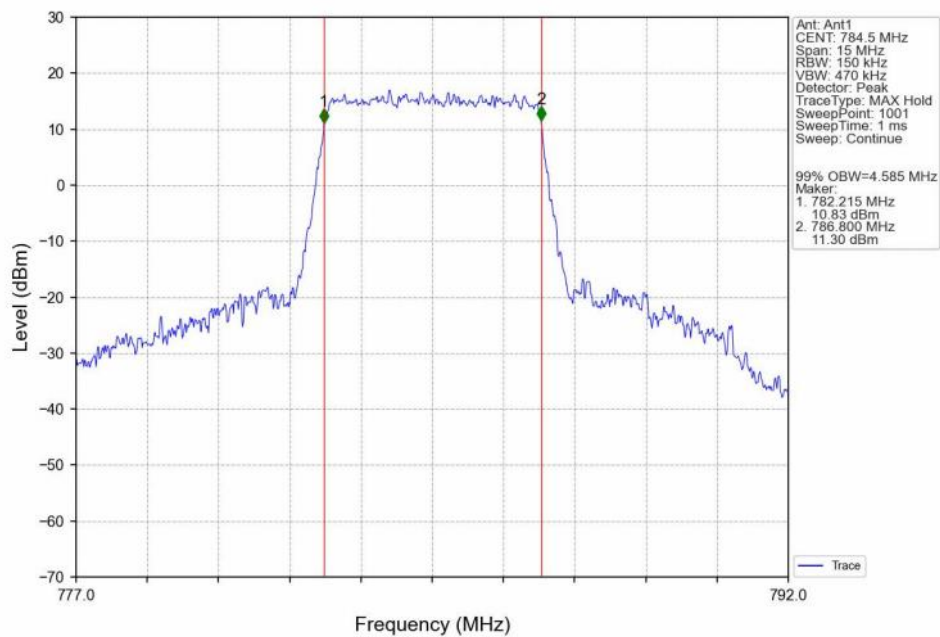
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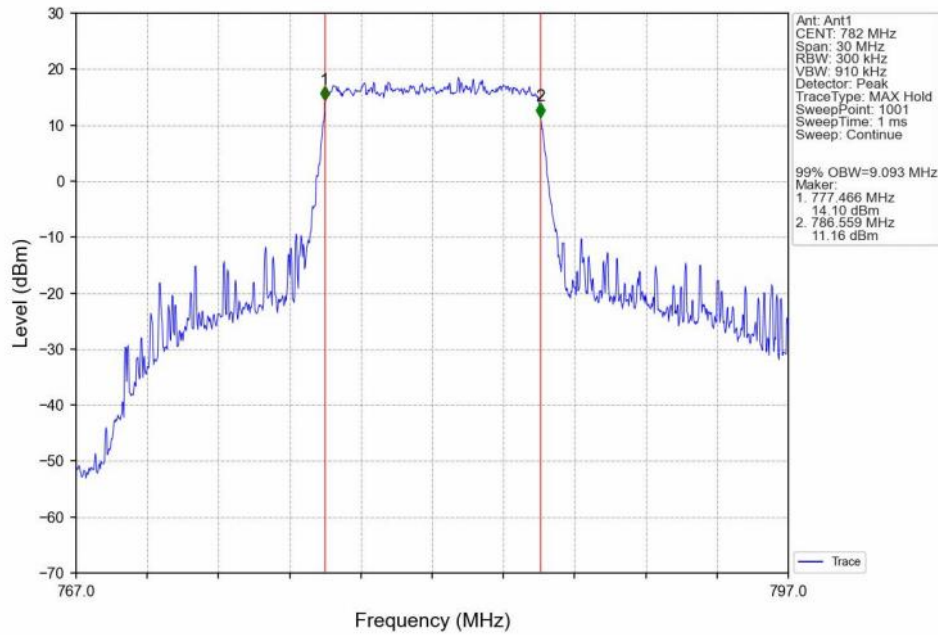
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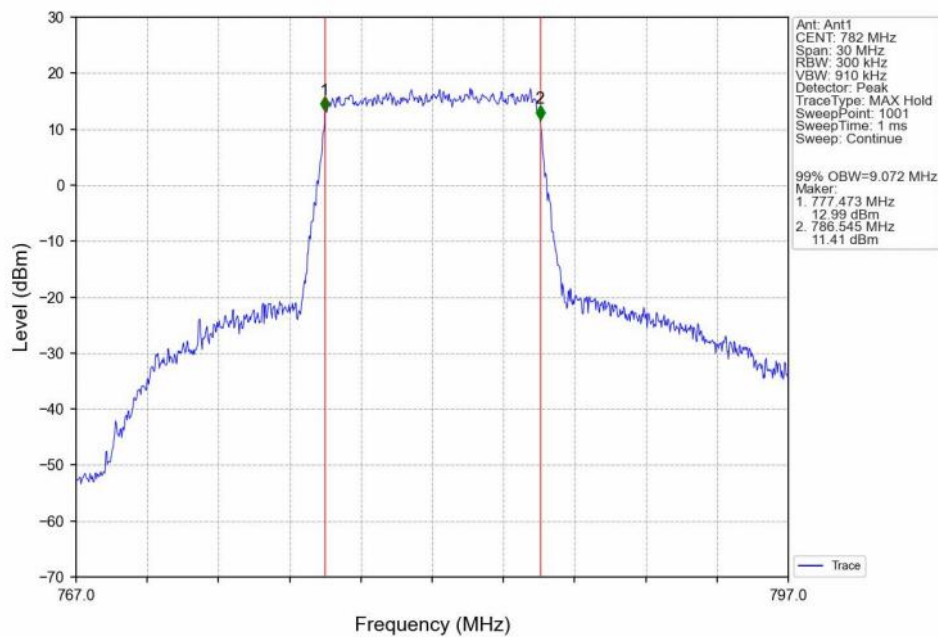
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



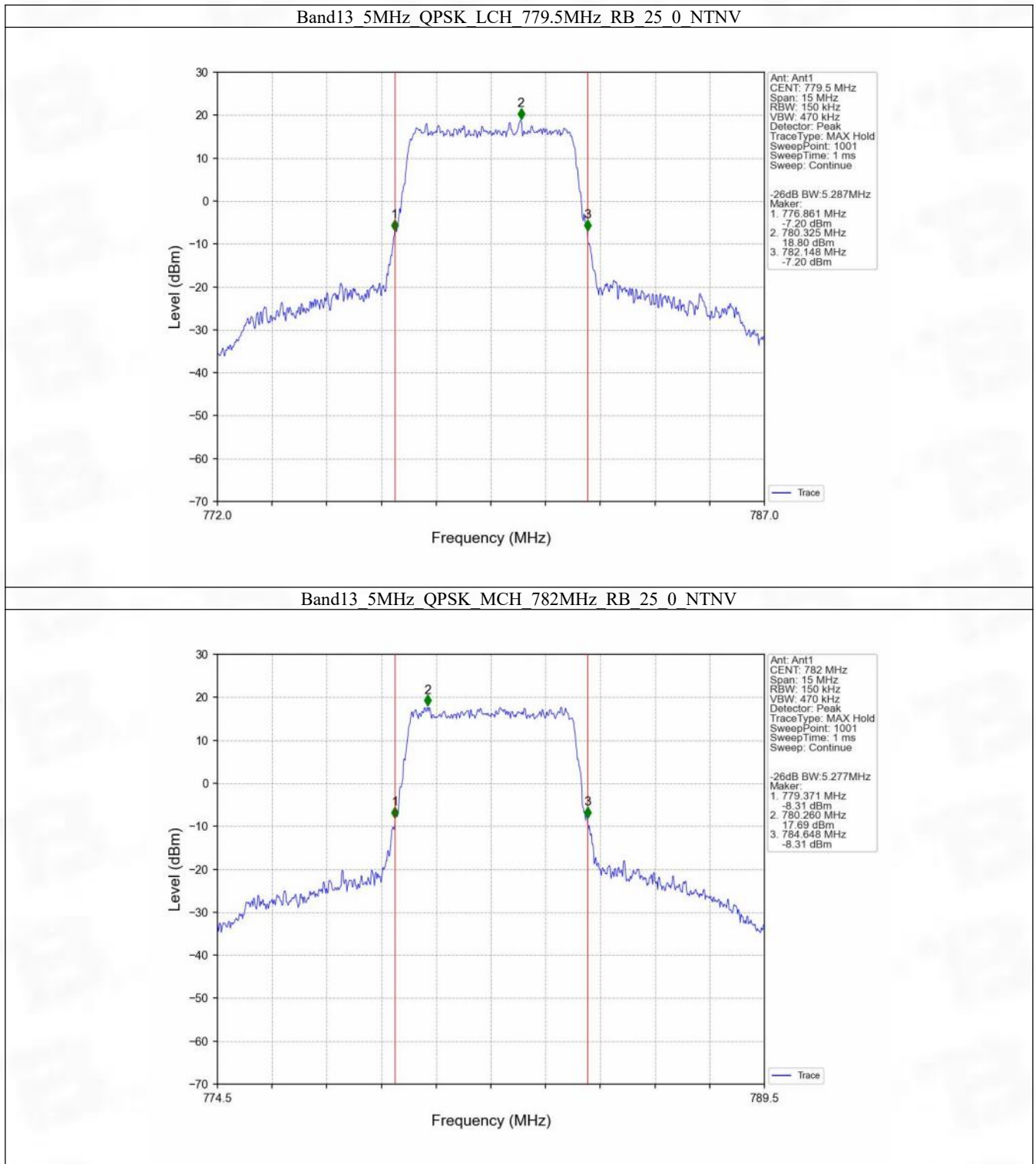
Band13 10MHz QPSK MCH 782MHz RB 50 0 NTNV



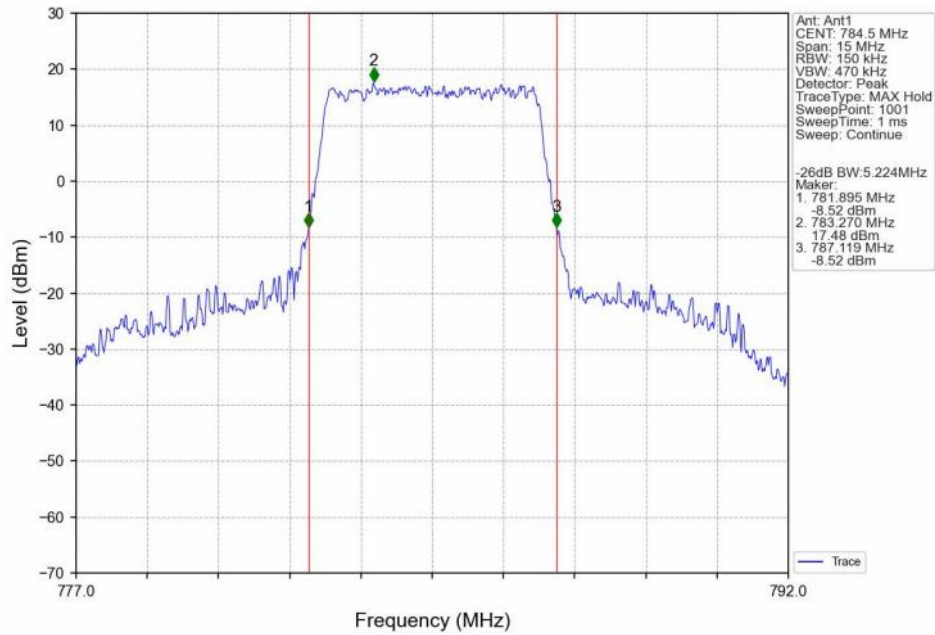
Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTNV



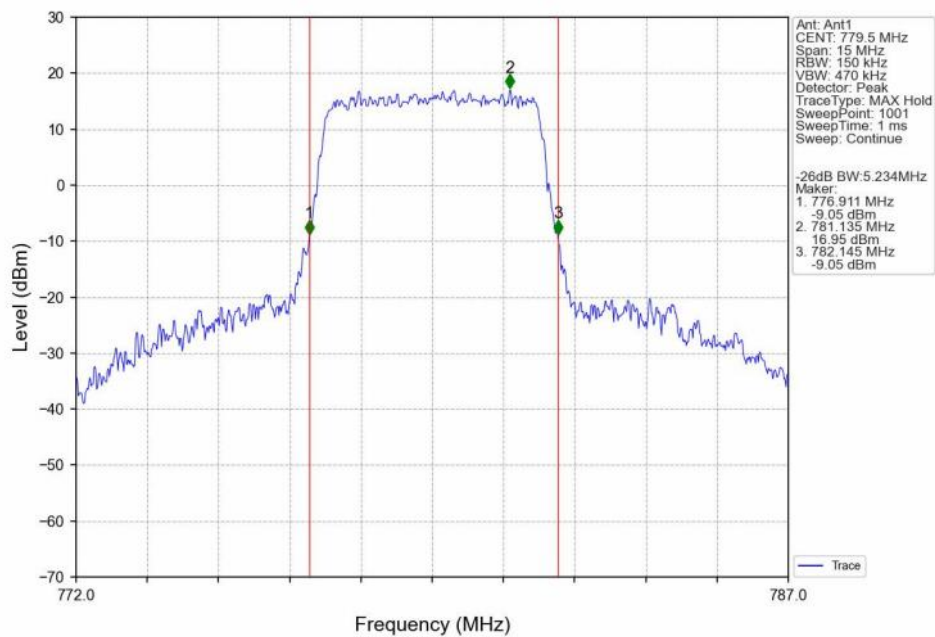
4.2.2 Band13_XDB



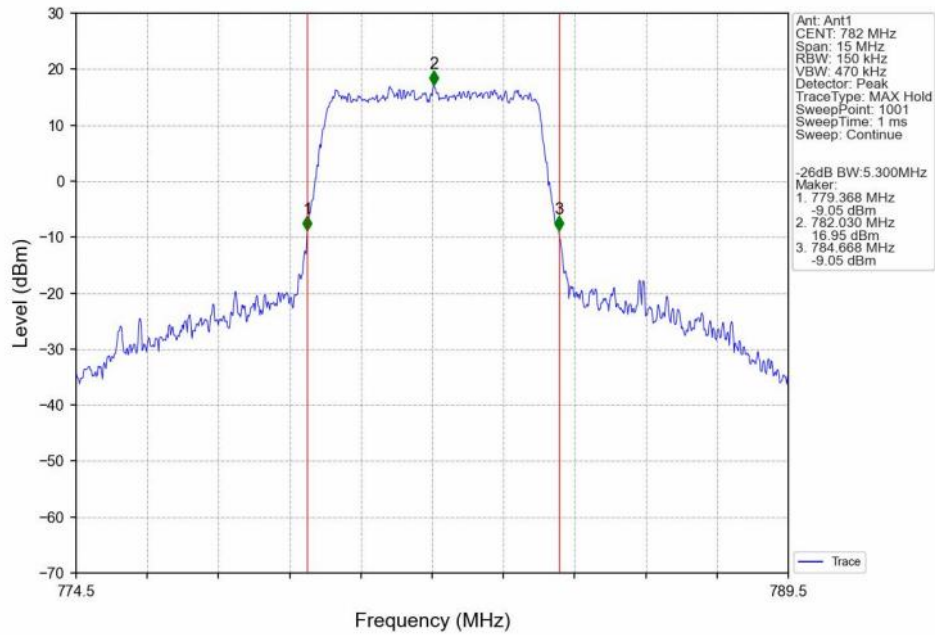
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



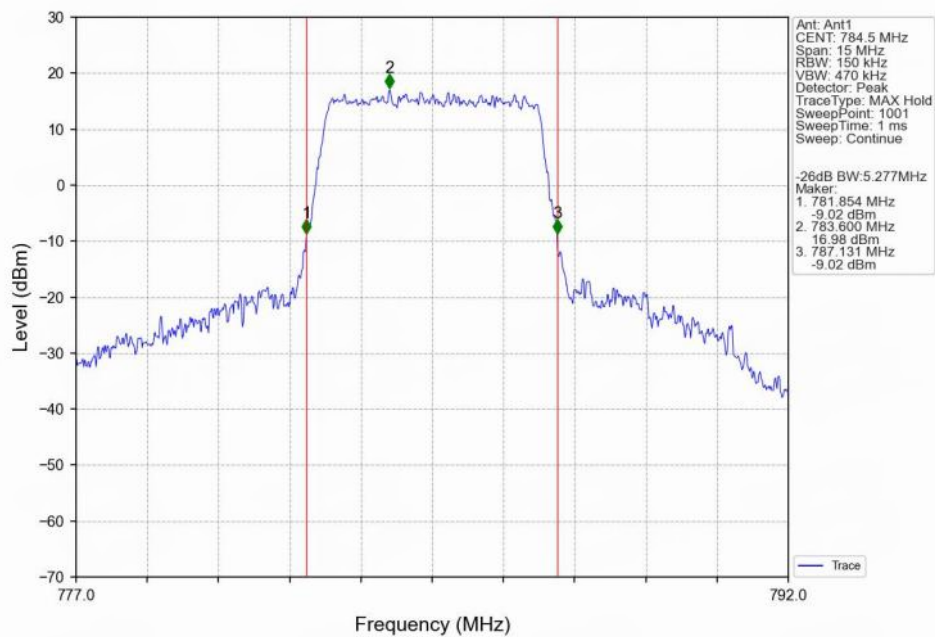
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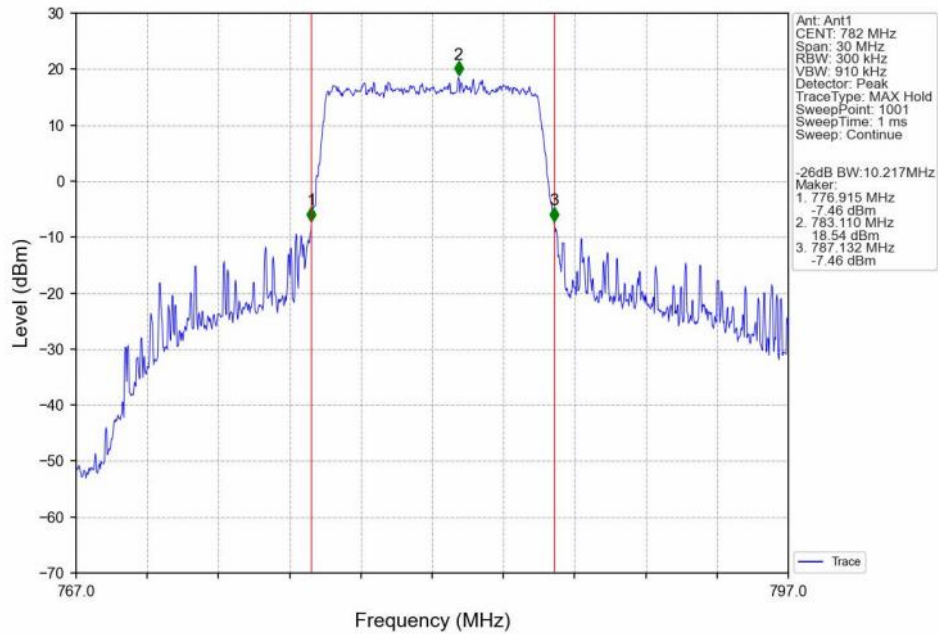
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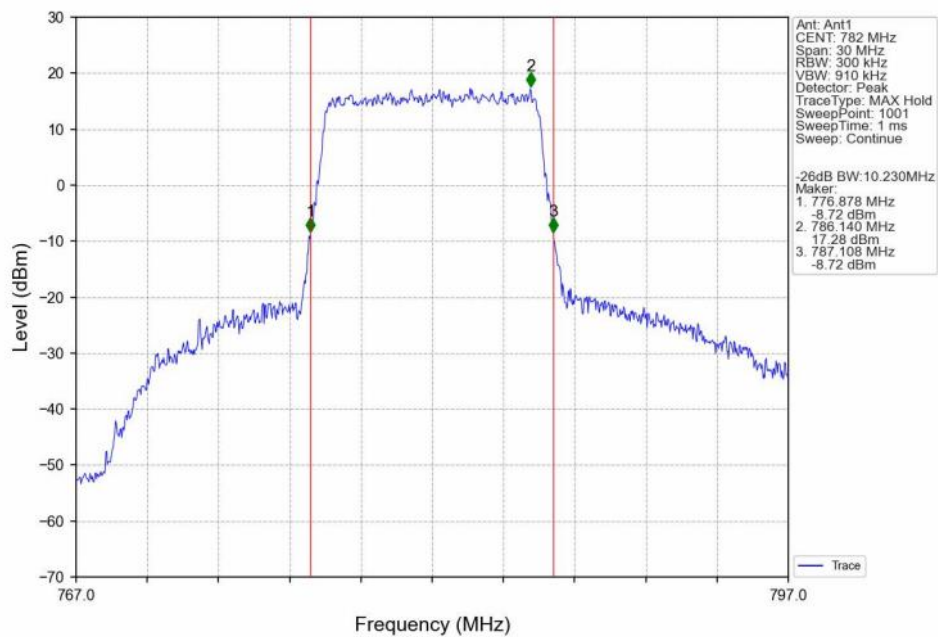
Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



Band13 10MHz QPSK MCH 782MHz RB 50 0 NTNV



Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B13_5MHz

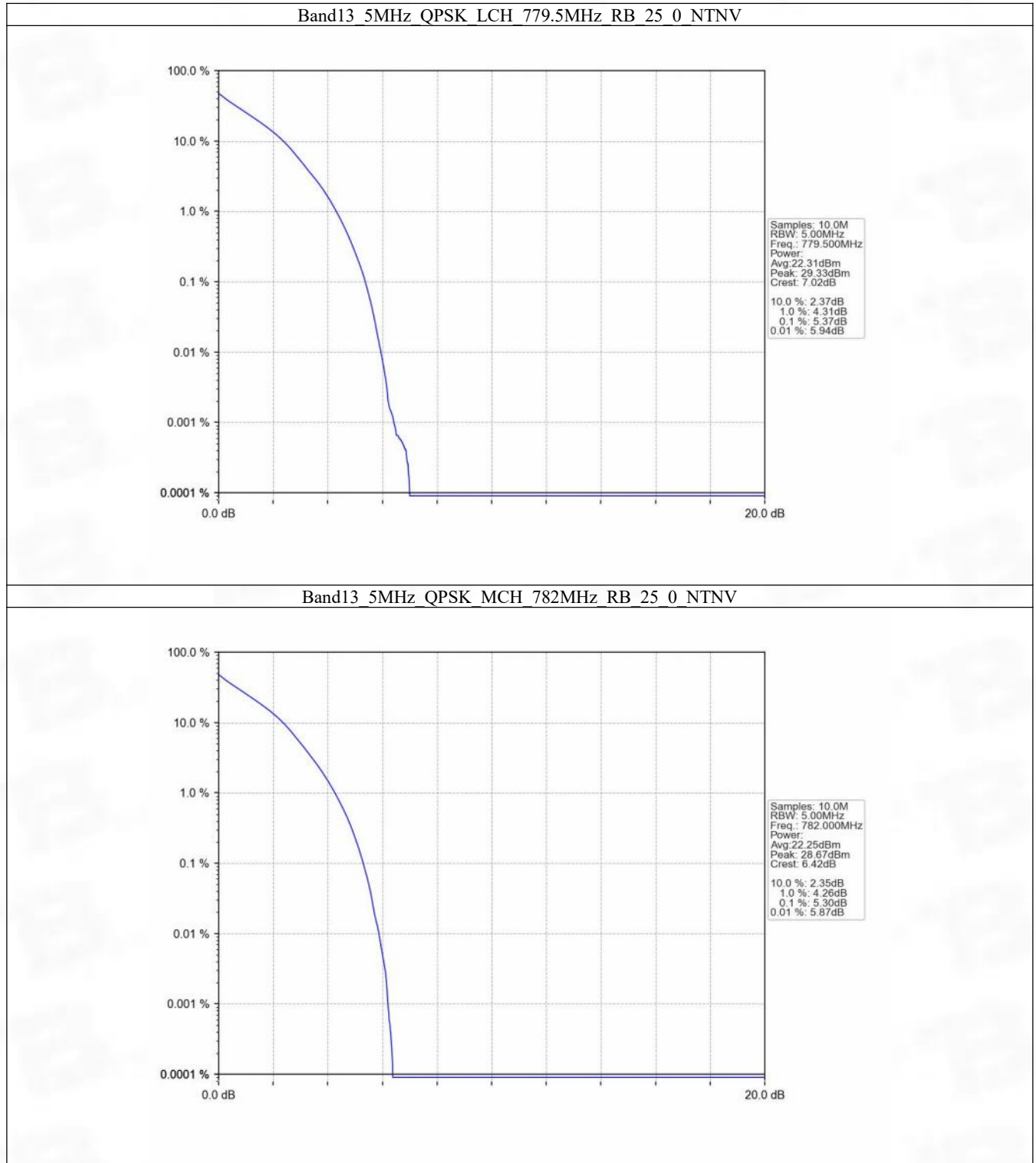
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.37	≤ 13	Pass
	782	25	0	5.30	≤ 13	Pass
	784.5	25	0	5.19	≤ 13	Pass
16QAM	779.5	25	0	6.06	≤ 13	Pass
	782	25	0	5.98	≤ 13	Pass
	784.5	25	0	5.90	≤ 13	Pass

5.1.2 B13_10MHz

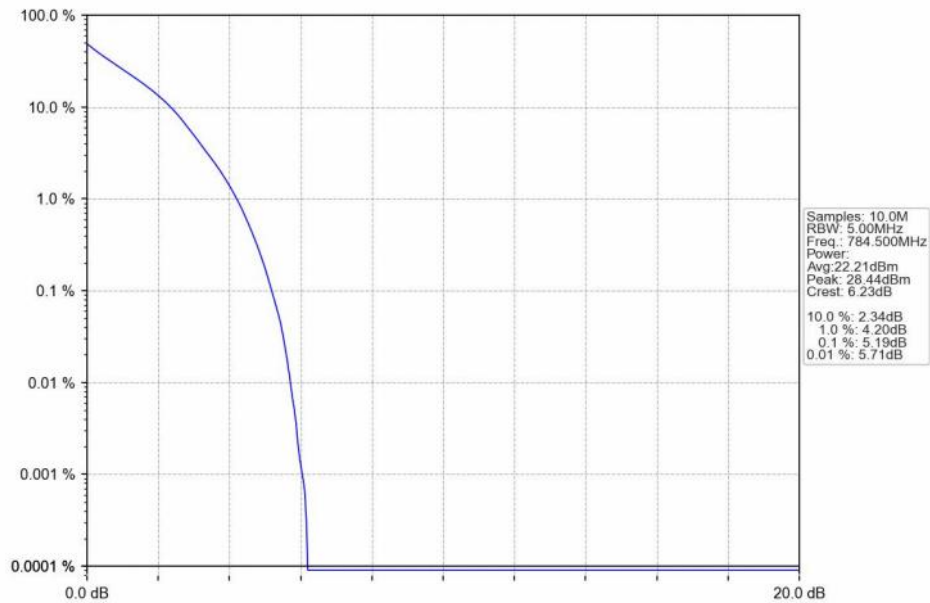
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.29	≤ 13	Pass
16QAM	782	50	0	6.02	≤ 13	Pass

5.2 Test Graph

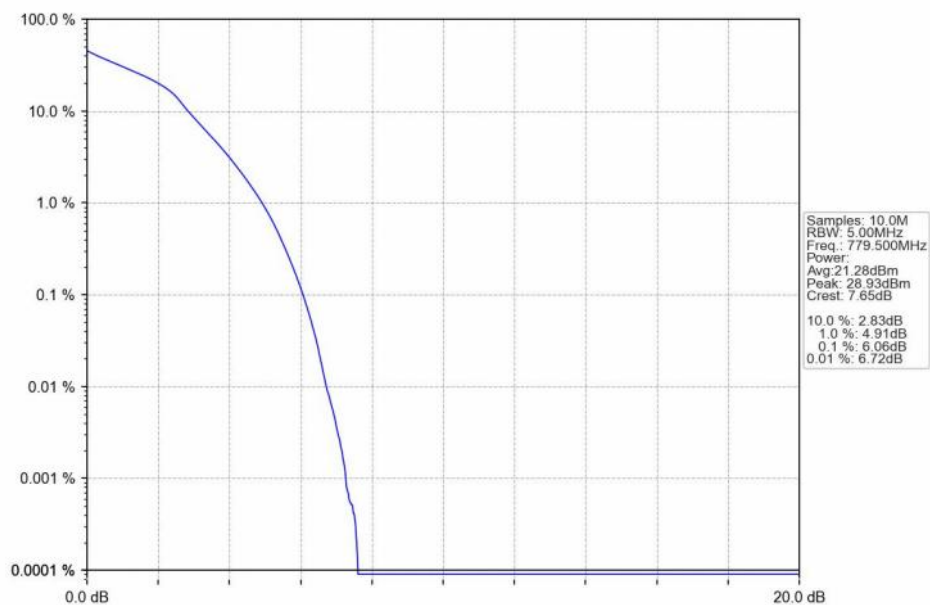
5.2.1 B13_5MHz



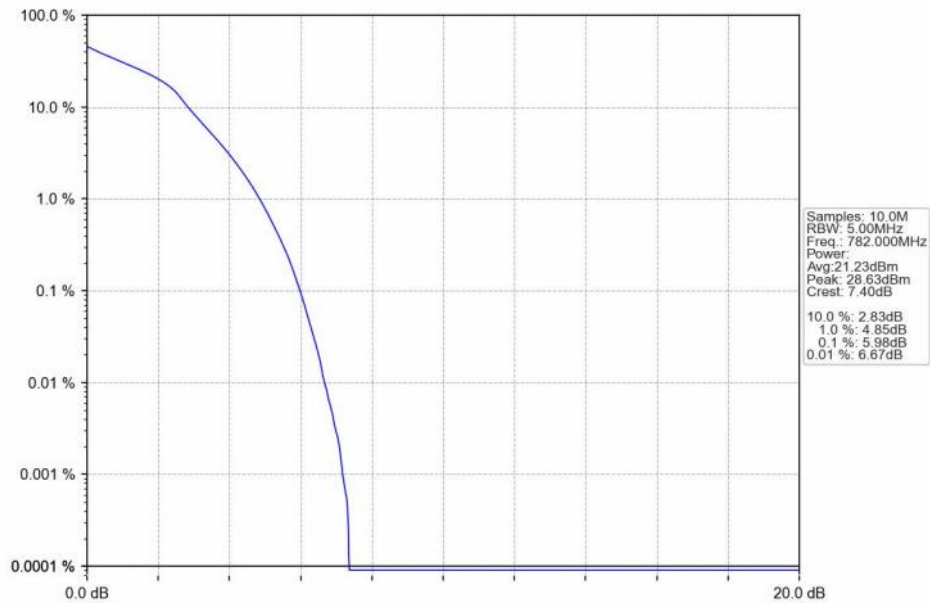
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



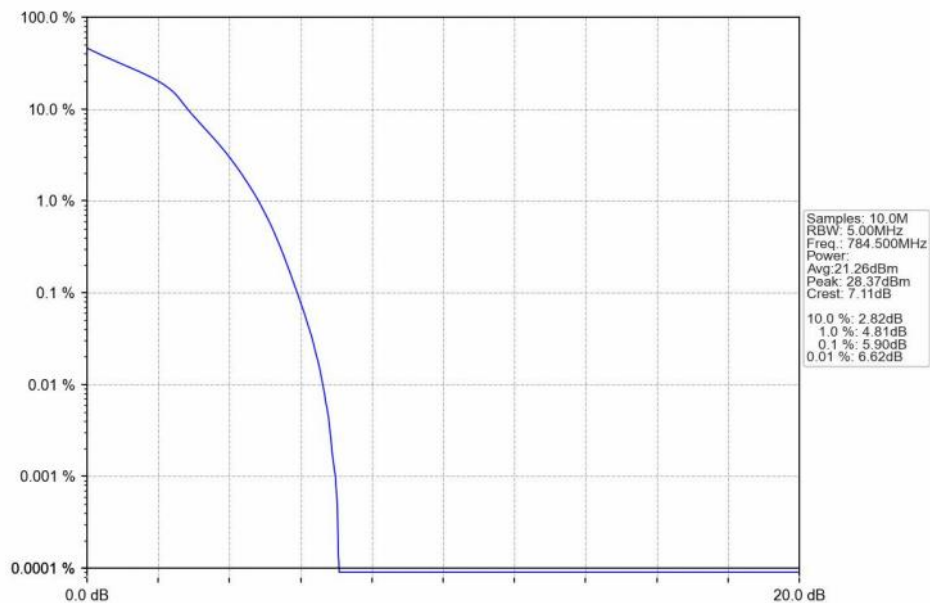
Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV



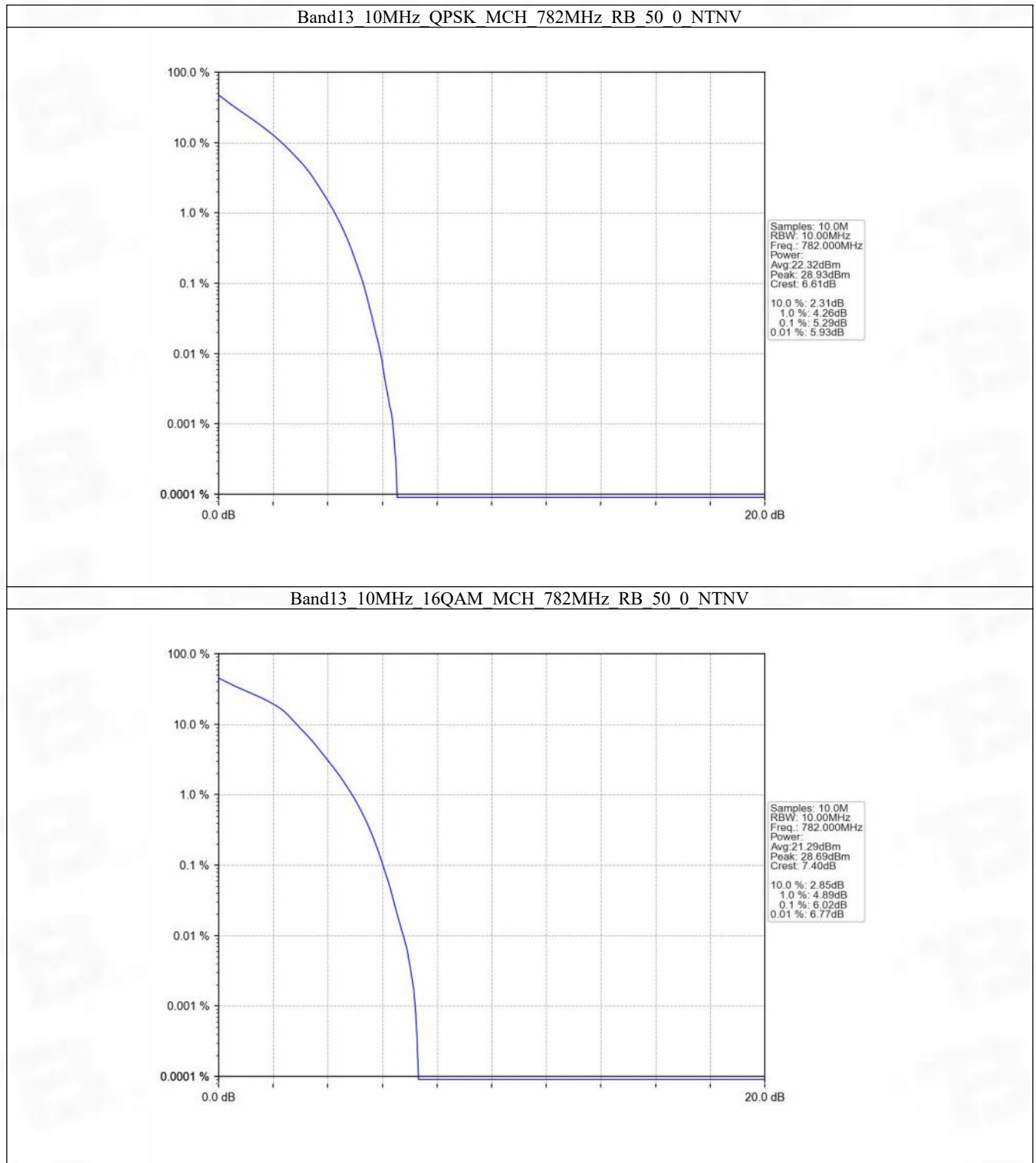
Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_25_0_NTNV



5.2.2 B13_10MHz



6. Spurious Emission

6.1 Test Result

6.1.1 B13_5MHz

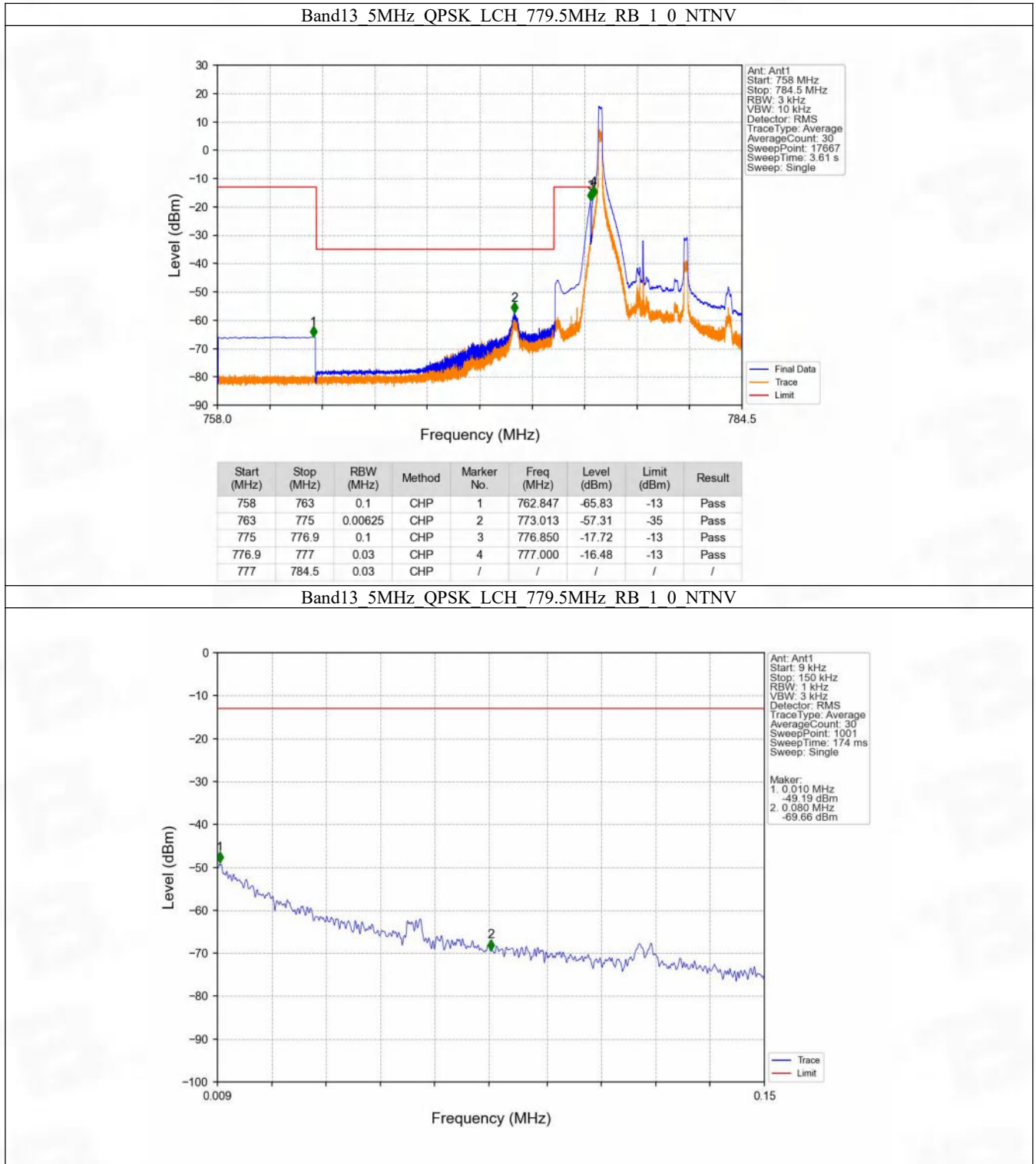
Band: 13 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

6.1.2 B13_10MHz

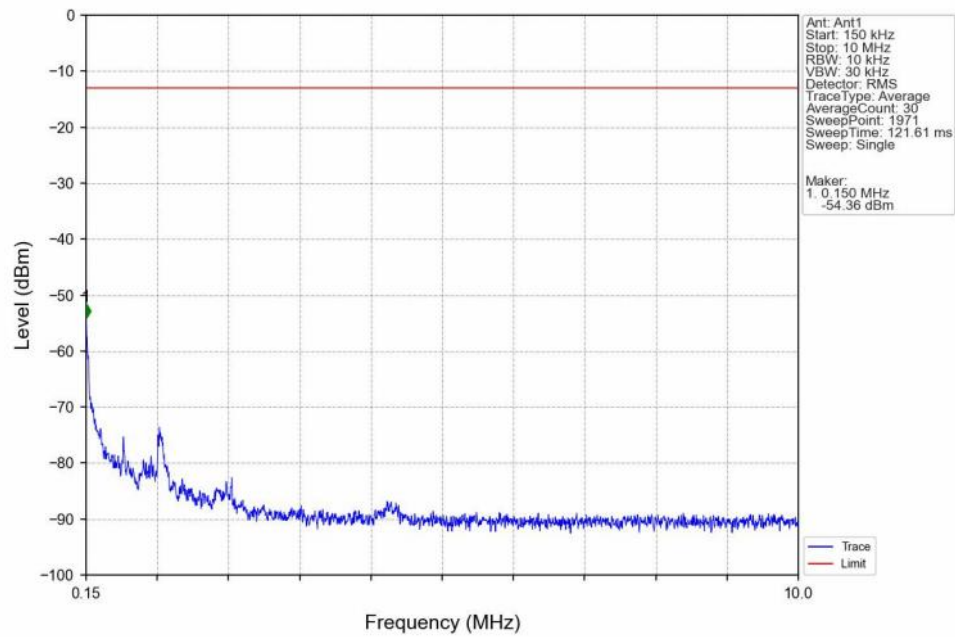
Band: 13 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.2 Test Graph

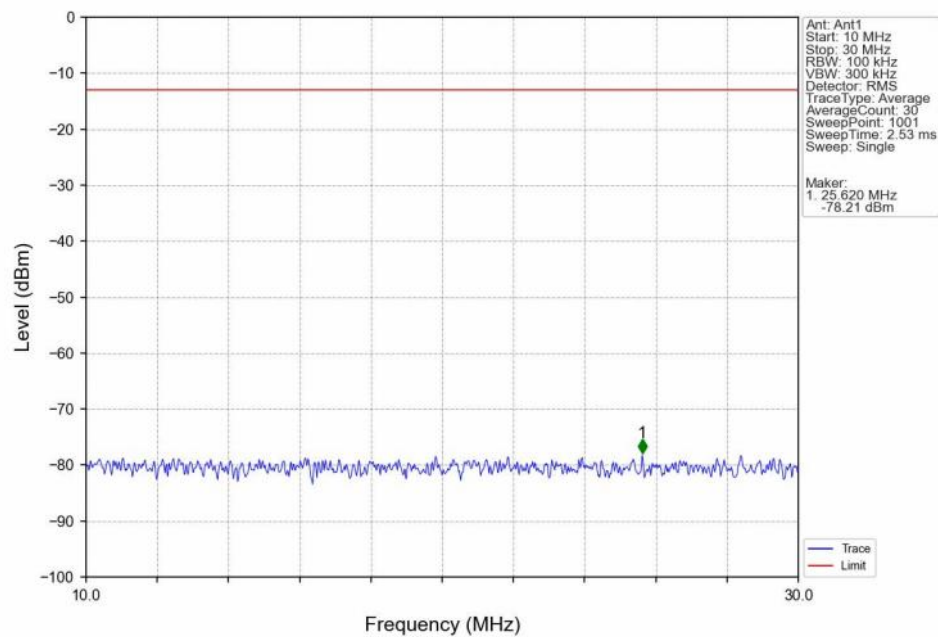
6.2.1 B13_5MHz



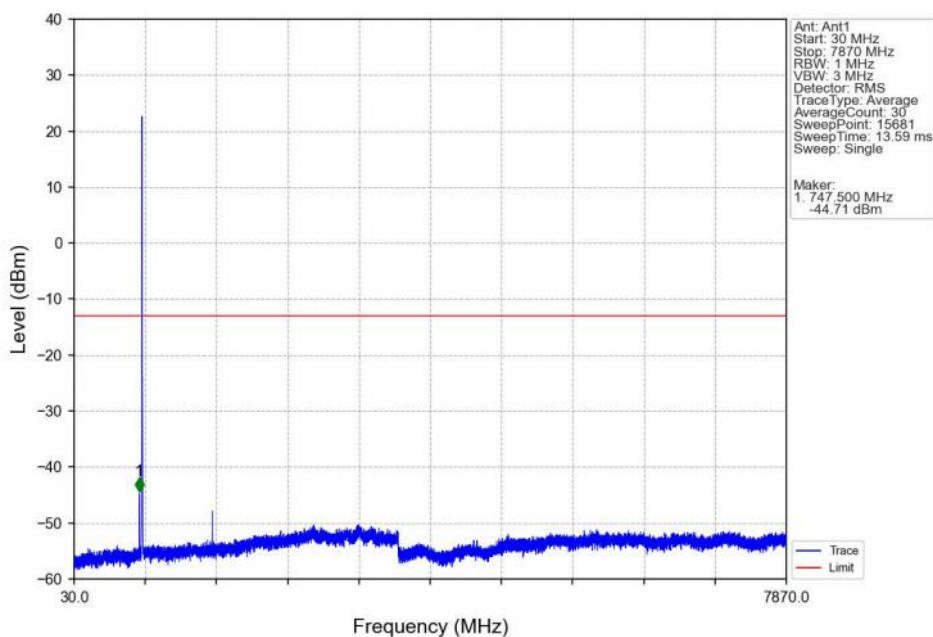
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



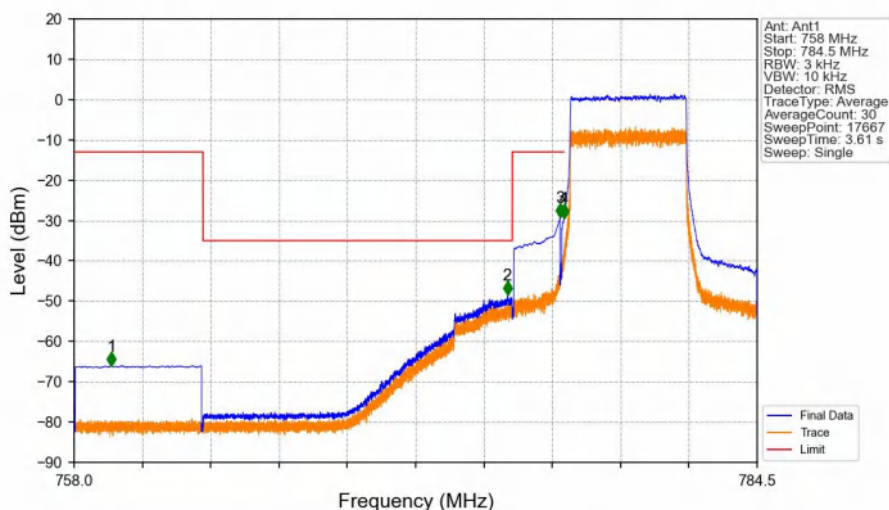
Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_LCH_779.5MHz_RB_1_0_NTNV

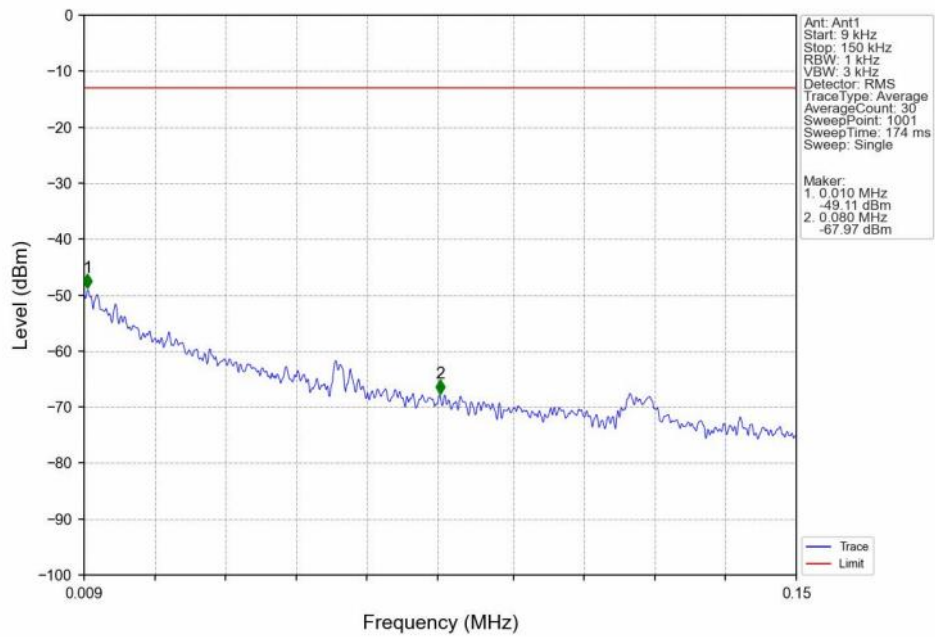


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

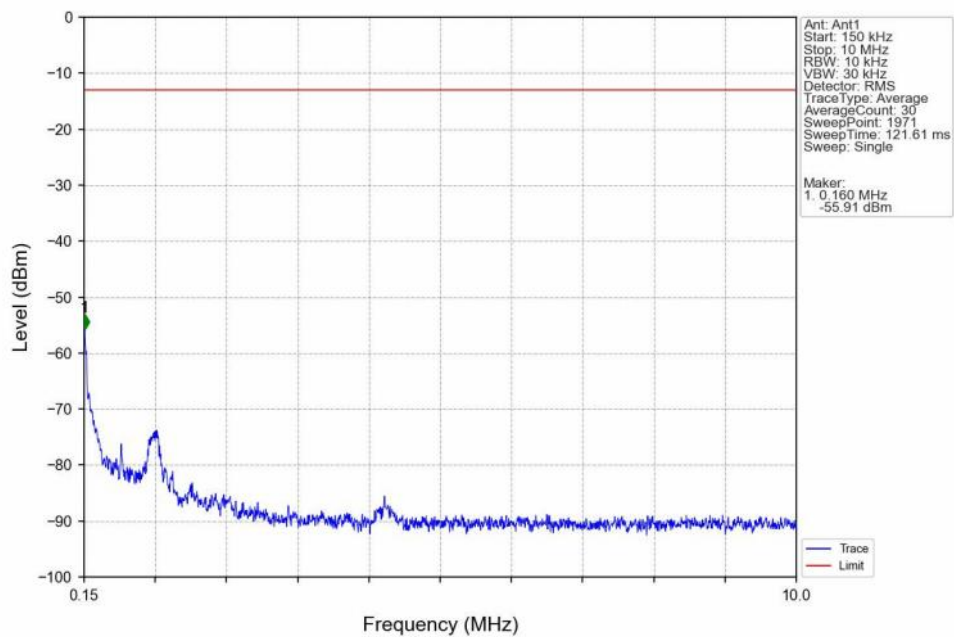


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.448	-66.04	-13	Pass
763	775	0.00625	CHP	2	774.808	-48.38	-35	Pass
775	776.9	0.1	CHP	3	776.850	-29.19	-13	Pass
776.9	777	0.03	CHP	4	777.000	-29.39	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

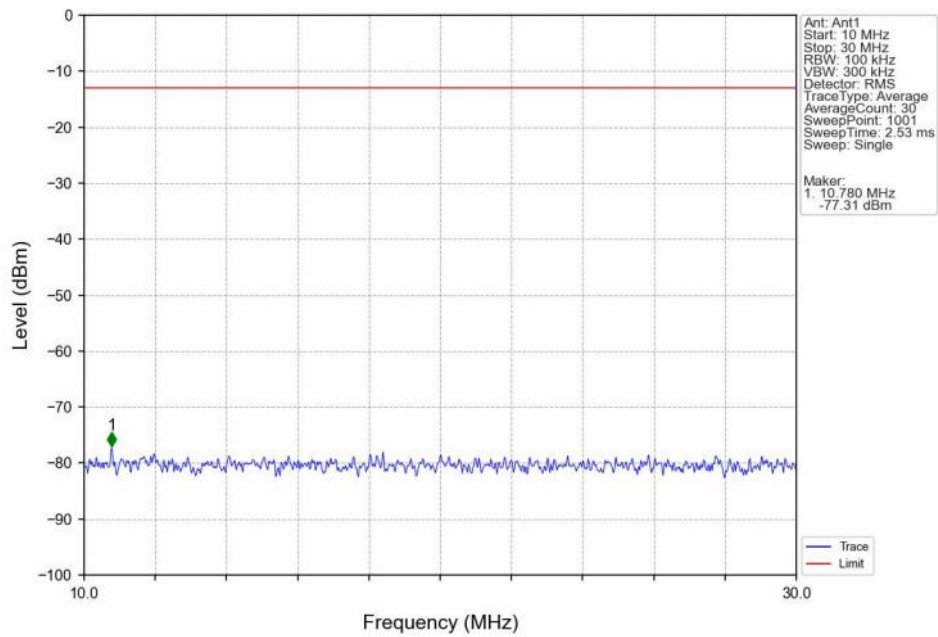
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



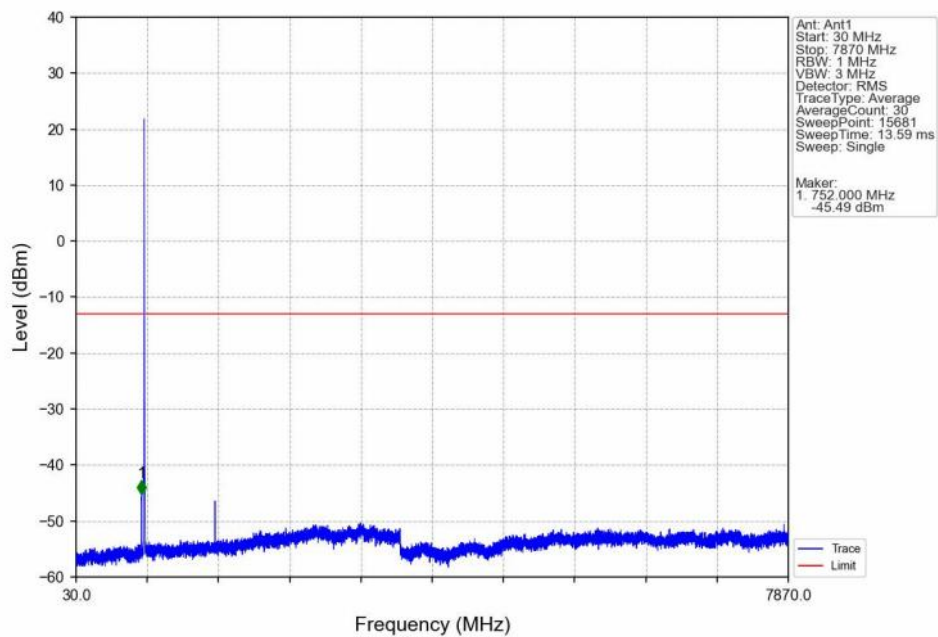
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



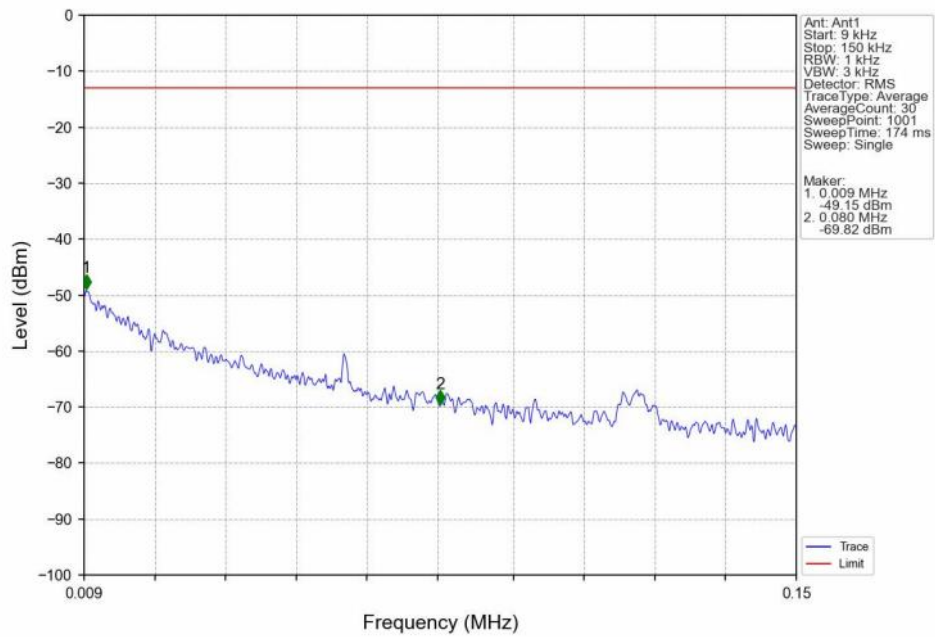
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



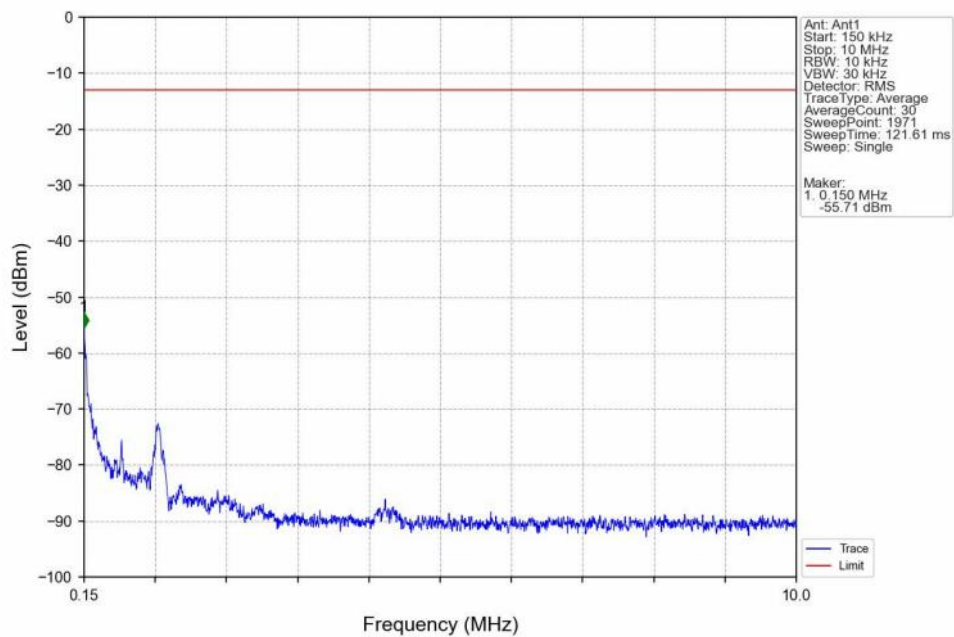
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



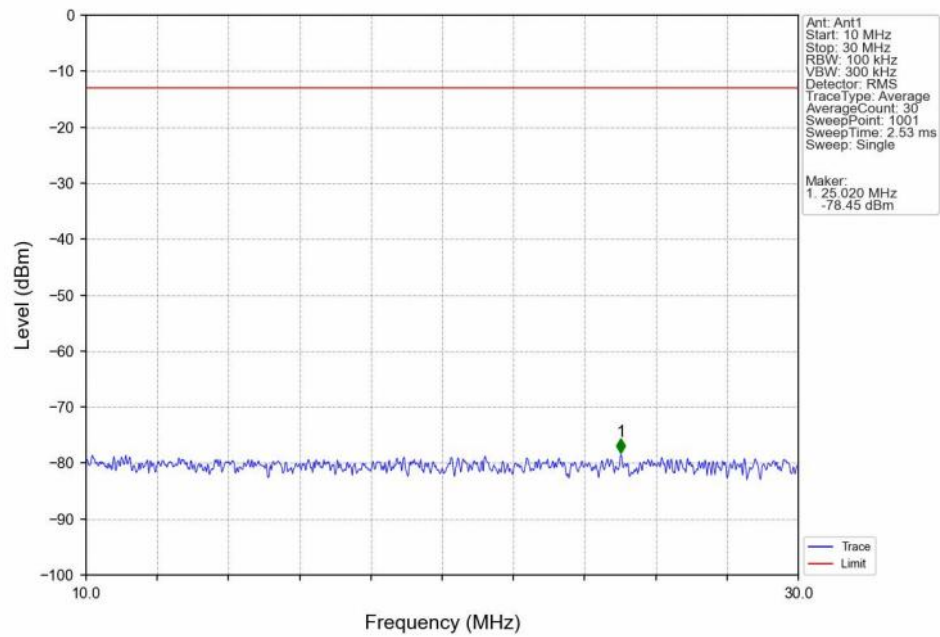
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTNV



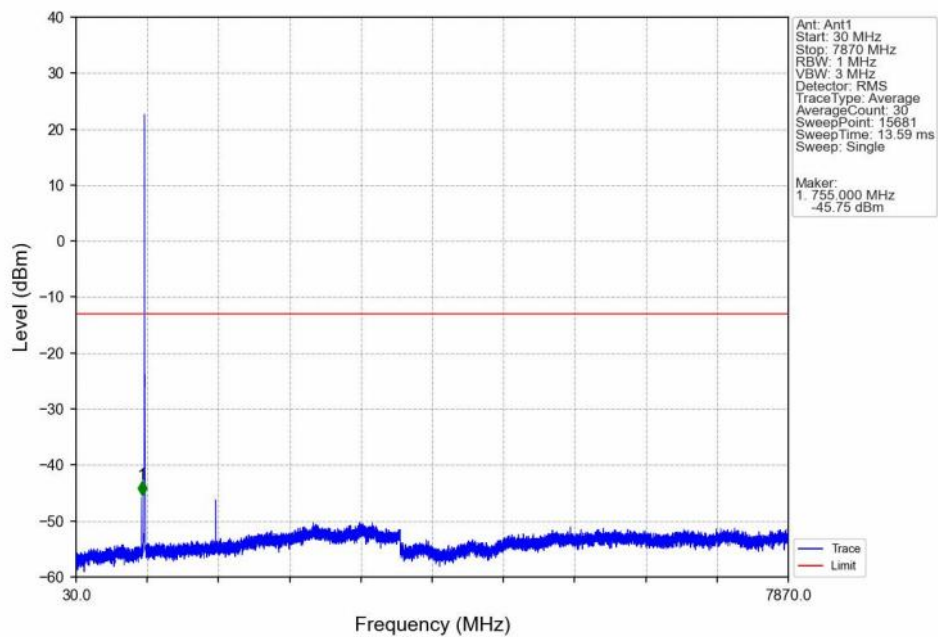
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTNV



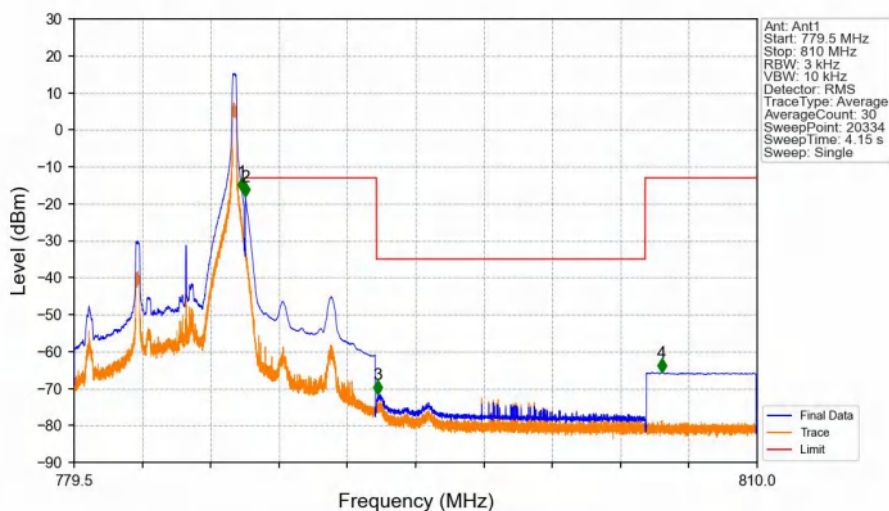
Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTNV



Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTNV

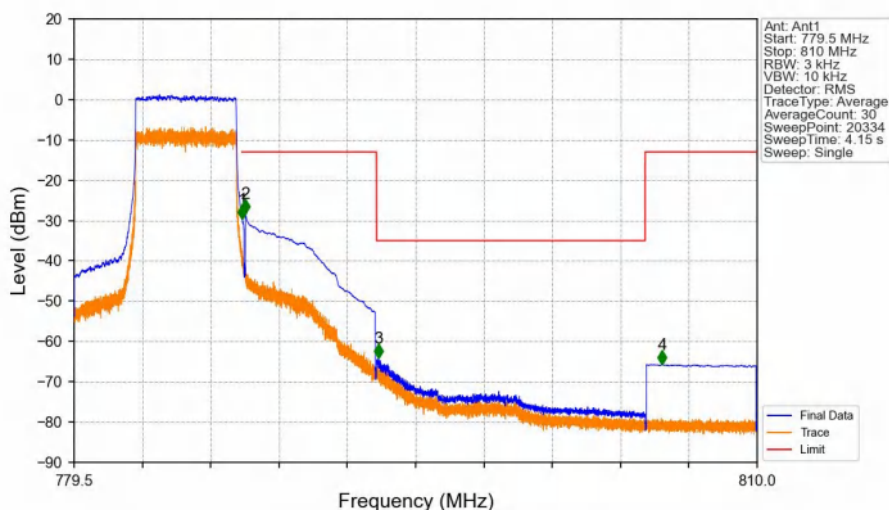


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



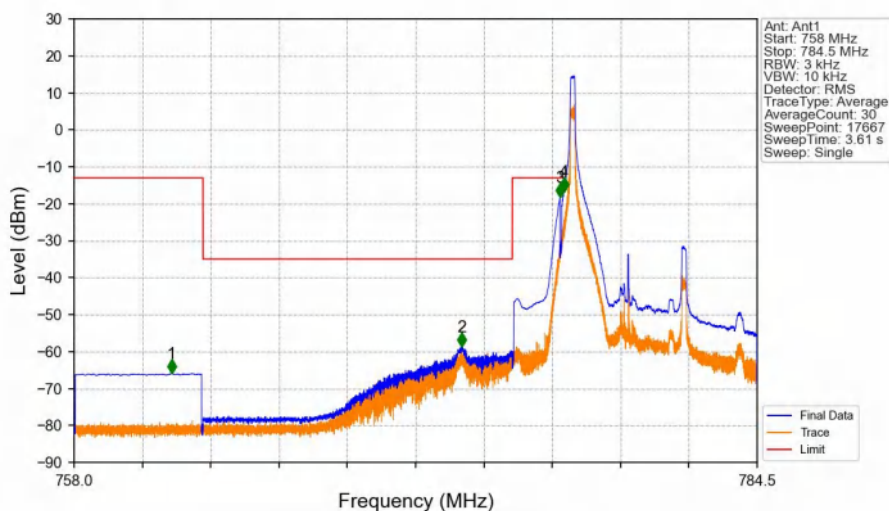
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-16.77	-13	Pass
787.1	793	0.1	CHP	2	787.150	-18.10	-13	Pass
793	805	0.00625	CHP	3	793.068	-71.58	-35	Pass
805	810	0.1	CHP	4	805.731	-65.66	-13	Pass

Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV

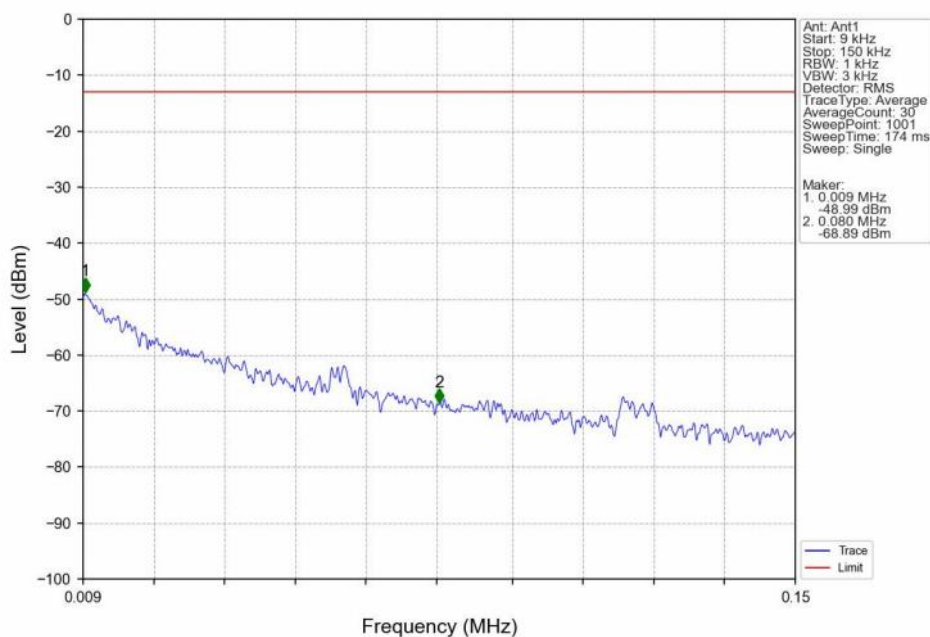


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.003	-29.58	-13	Pass
787.1	793	0.1	CHP	2	787.150	-28.28	-13	Pass
793	805	0.00625	CHP	3	793.087	-64.11	-35	Pass
805	810	0.1	CHP	4	805.752	-65.74	-13	Pass

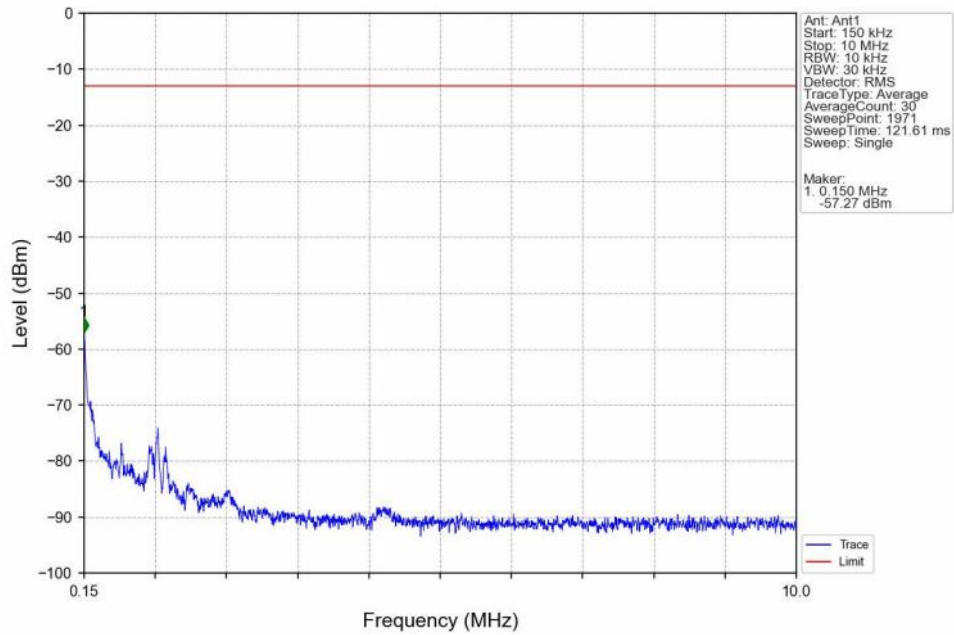
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



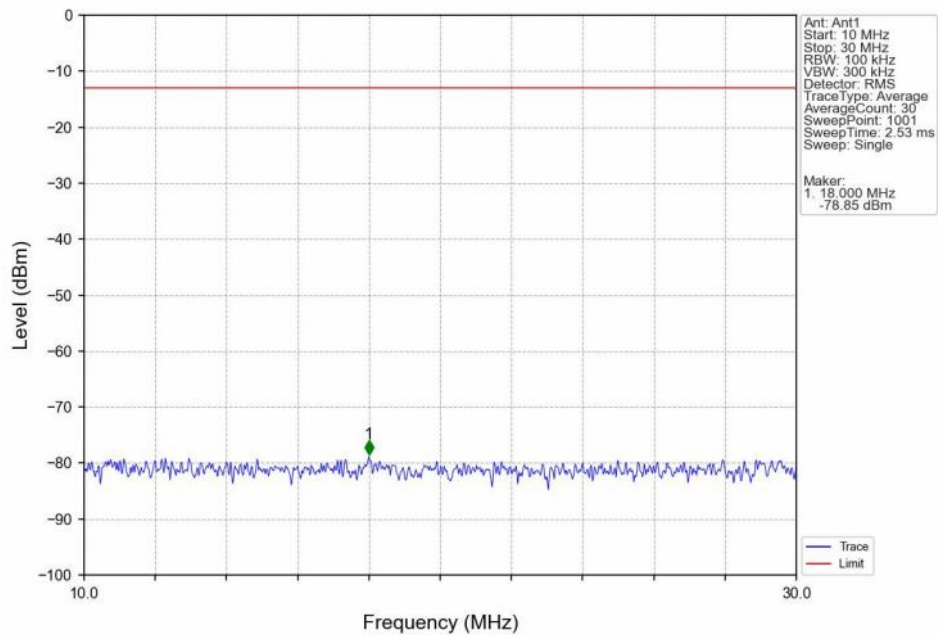
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



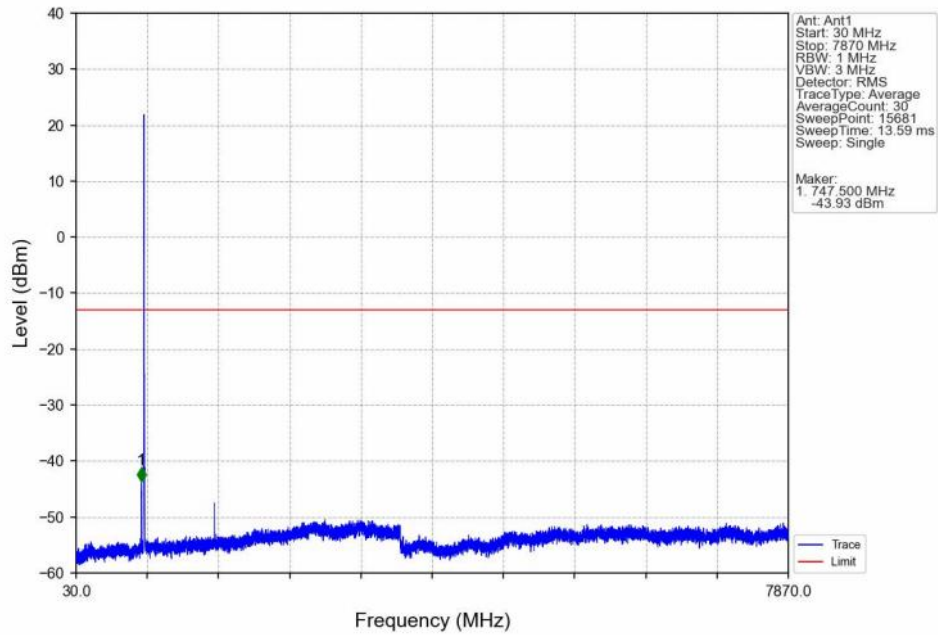
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



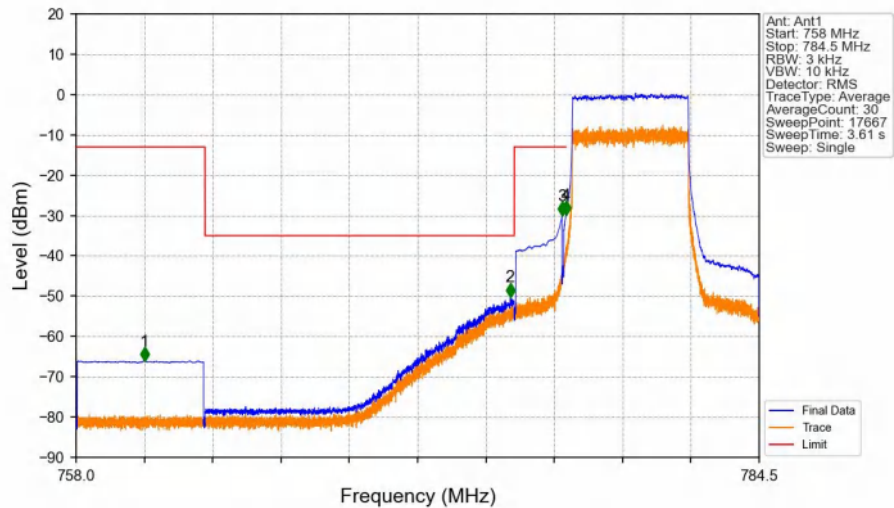
Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV

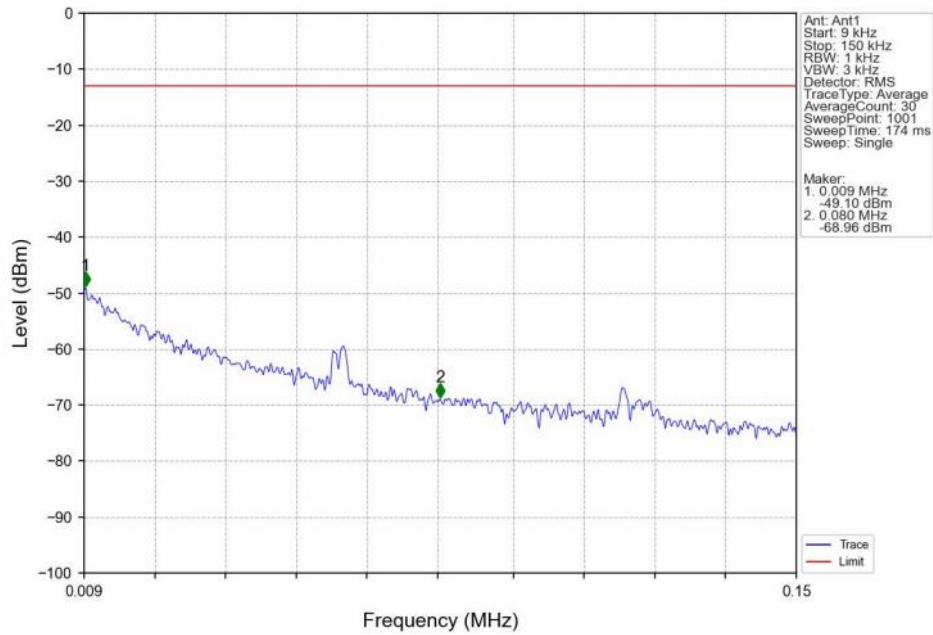


Band13_5MHz_16QAM_LCH_779.5MHz_RB_25_0_NTNV

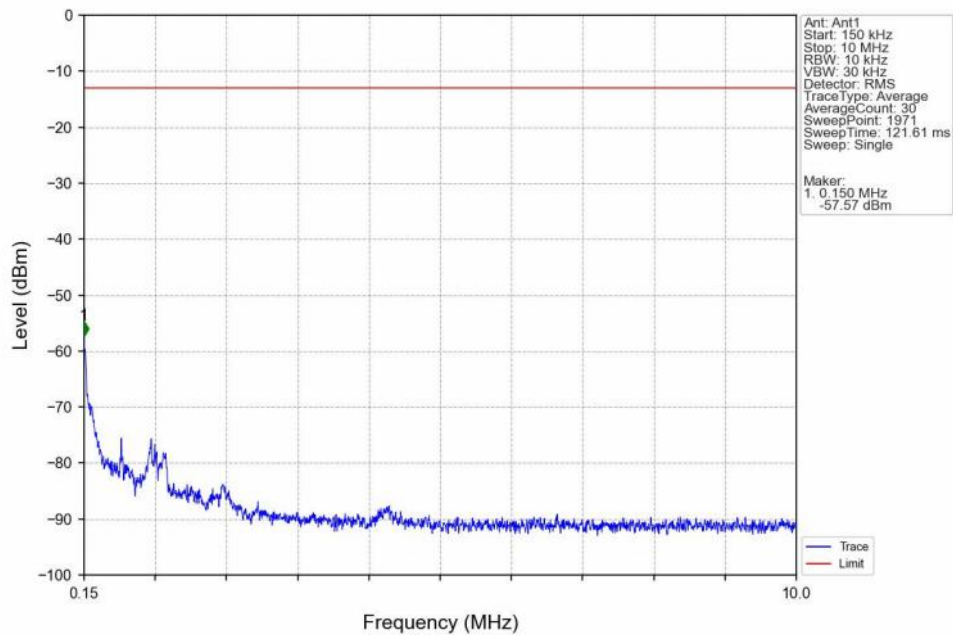


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.652	-66.09	-13	Pass
763	775	0.00625	CHP	2	774.841	-50.17	-35	Pass
775	776.9	0.1	CHP	3	776.850	-30.12	-13	Pass
776.9	777	0.03	CHP	4	777.000	-29.91	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

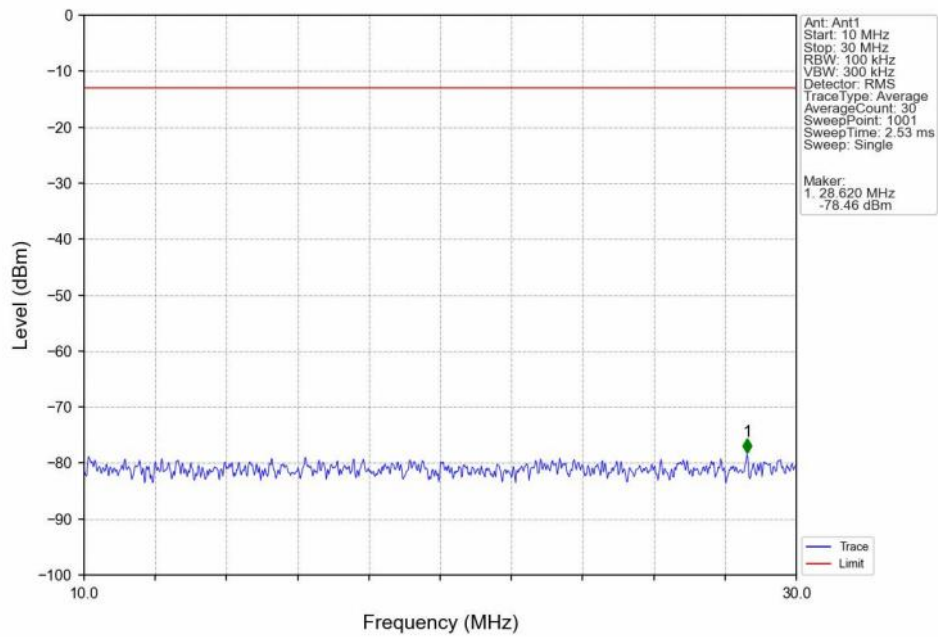
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



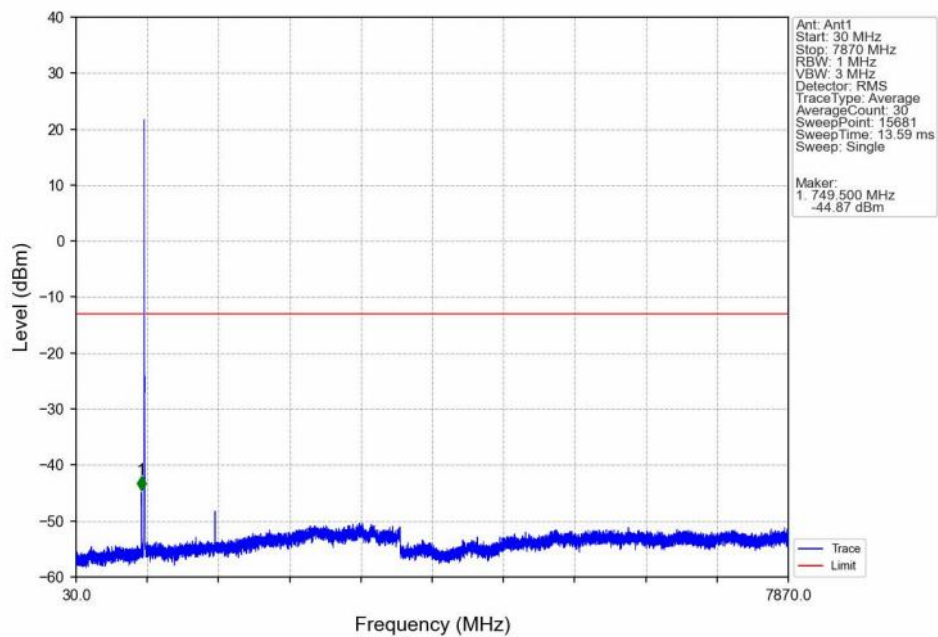
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



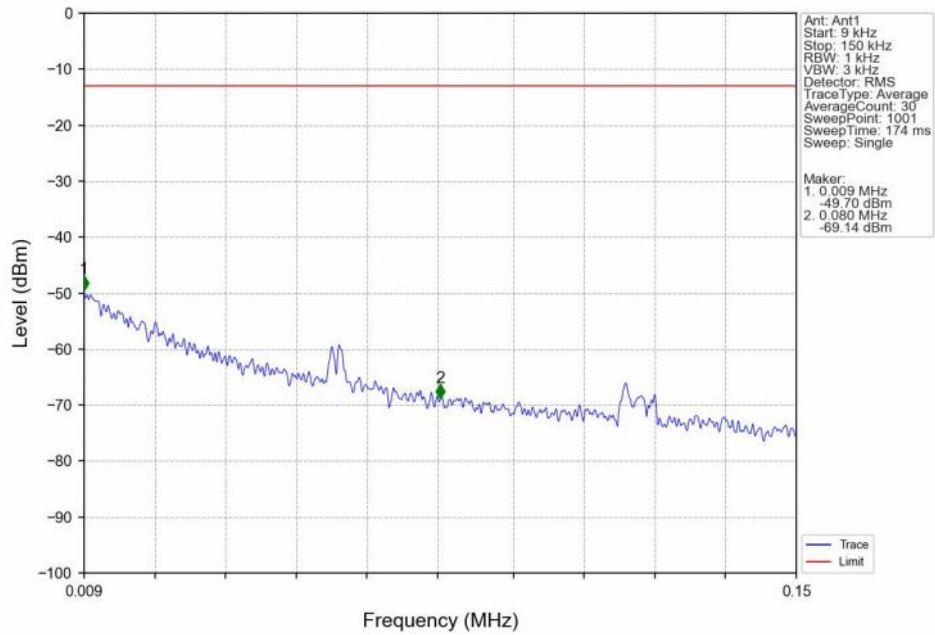
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



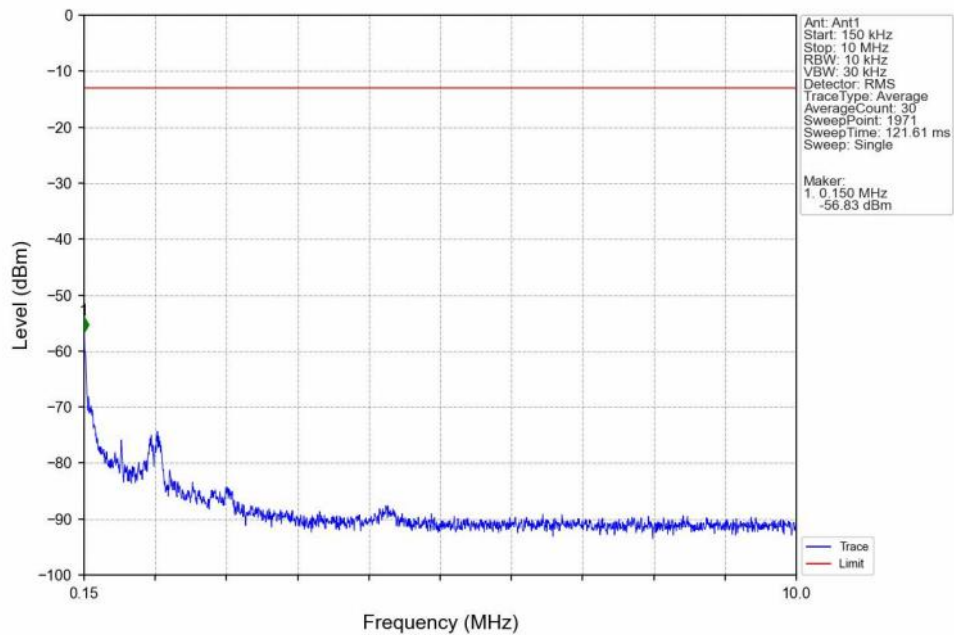
Band13_5MHz_16QAM_MCH_782MHz_RB_1_0_NTNV



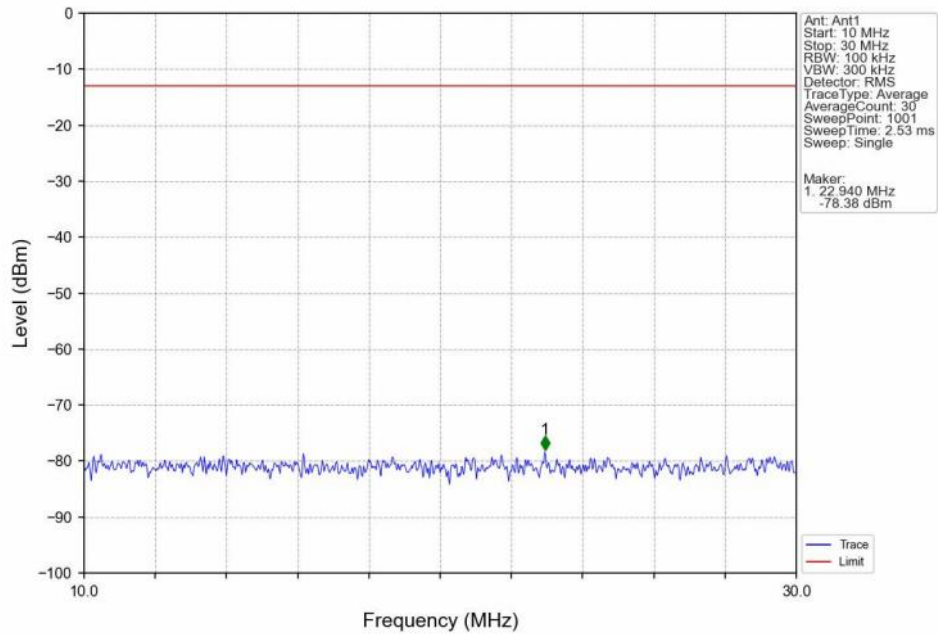
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



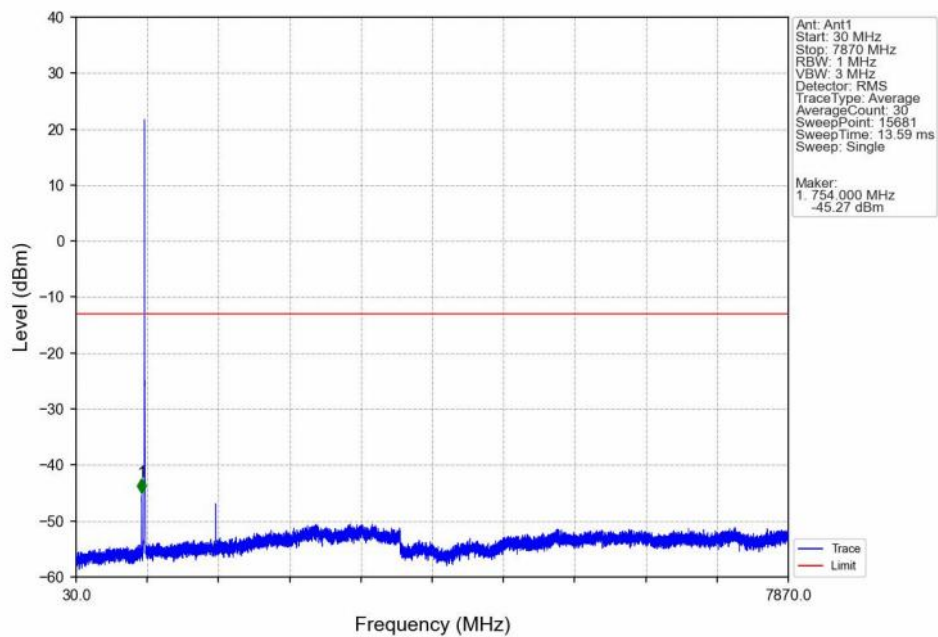
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



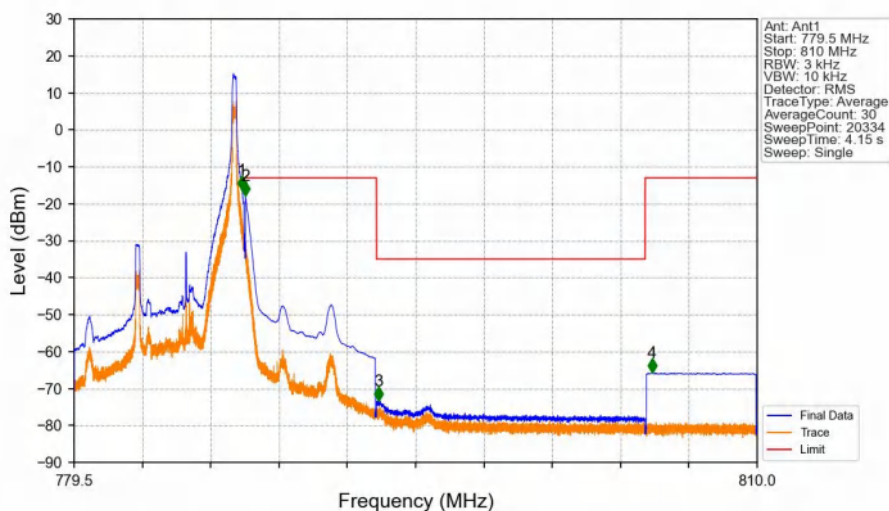
Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV



Band13_5MHz_16QAM_HCH_784.5MHz_RB_1_0_NTNV

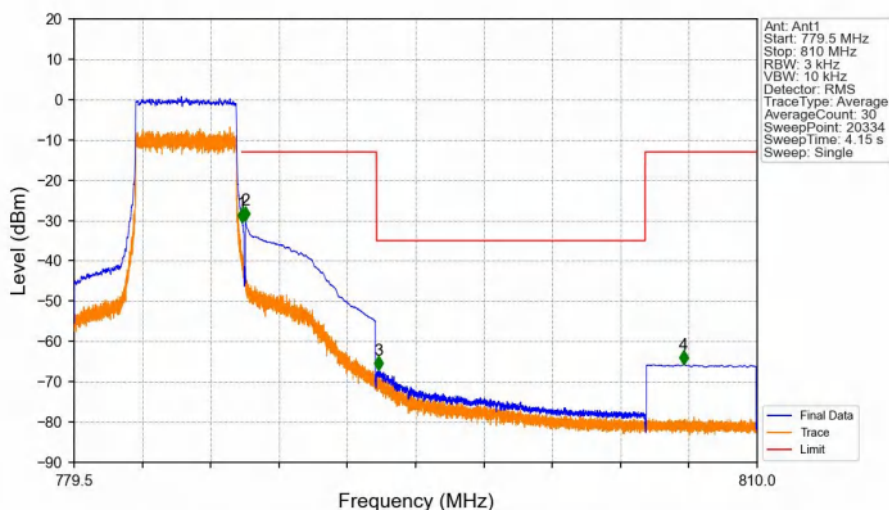


Band13 5MHz 16QAM HCH 784.5MHz RB 1 24 NTNV



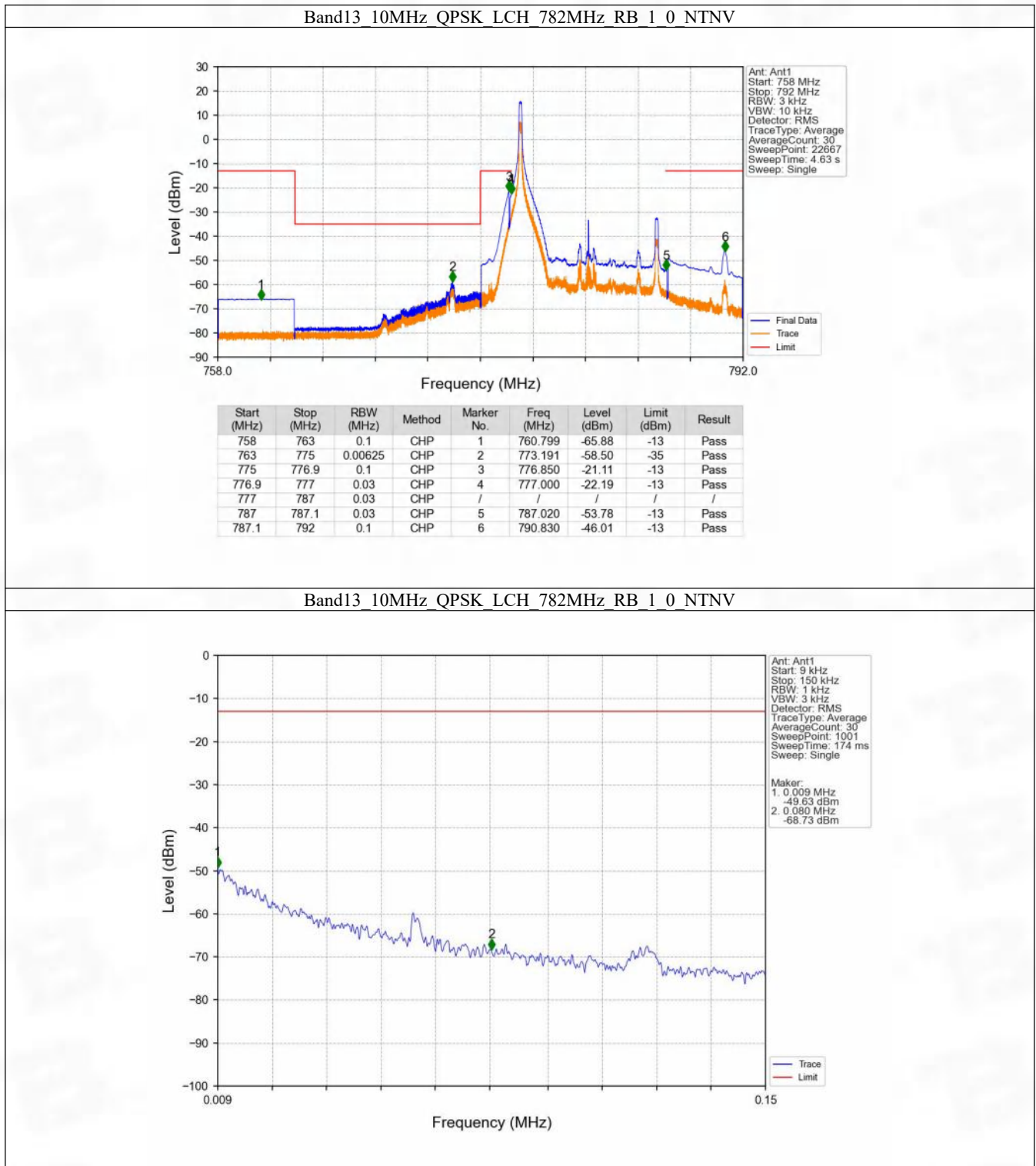
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-16.35	-13	Pass
787.1	793	0.1	CHP	2	787.150	-17.77	-13	Pass
793	805	0.00625	CHP	3	793.101	-73.37	-35	Pass
805	810	0.1	CHP	4	805.312	-65.77	-13	Pass

Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTNV

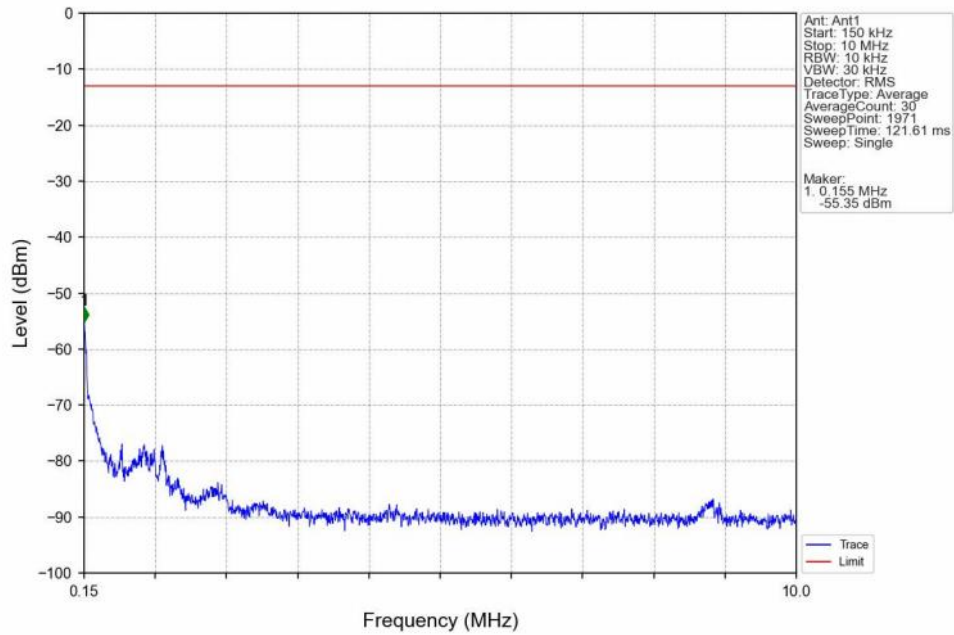


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	1	787.000	-30.50	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.93	-13	Pass
793	805	0.00625	CHP	3	793.093	-67.09	-35	Pass
805	810	0.1	CHP	4	806.718	-65.76	-13	Pass

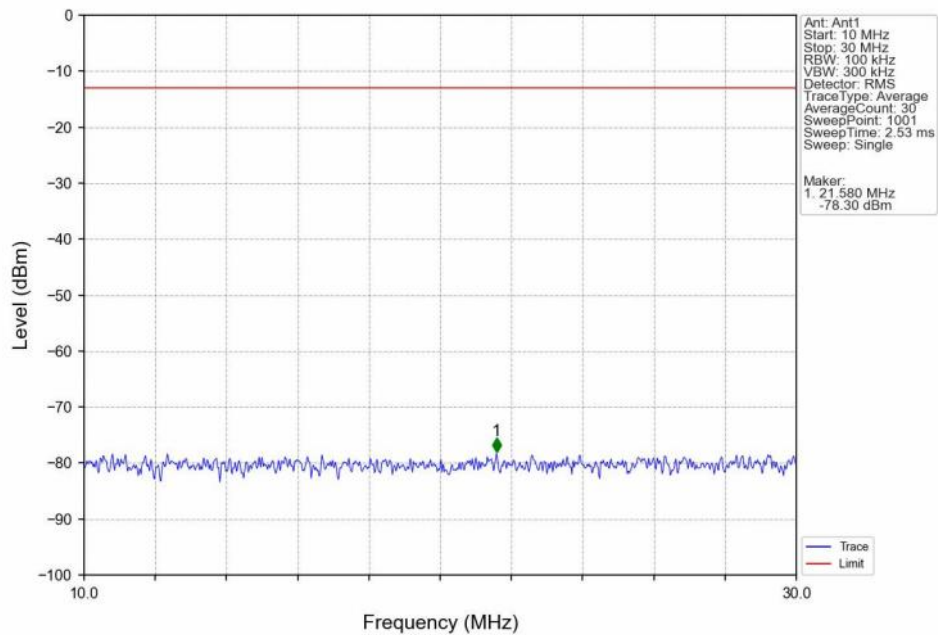
6.2.2 B13_10MHz



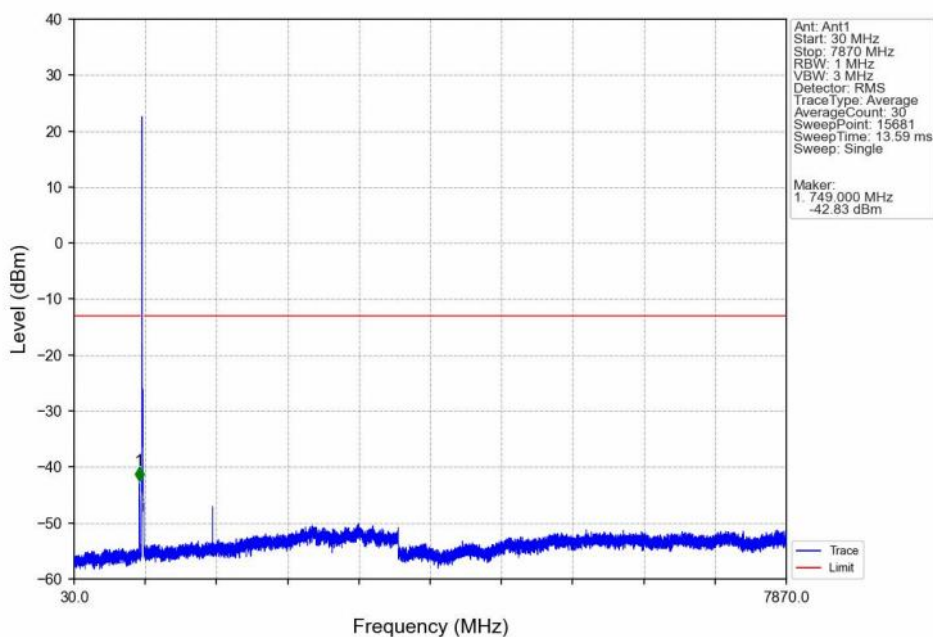
Band13 10MHz QPSK LCH 782MHz RB 1 0 NTNV



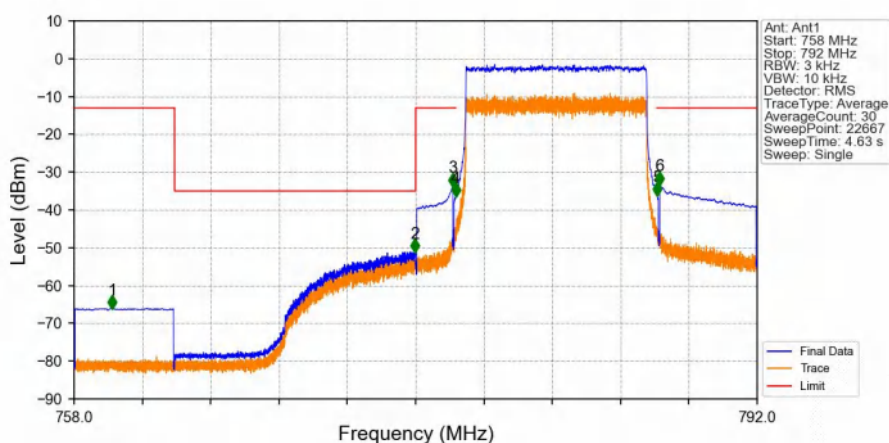
Band13 10MHz QPSK LCH 782MHz RB 1 0 NTNV



Band13 10MHz QPSK LCH 782MHz RB 1 0 NTNV

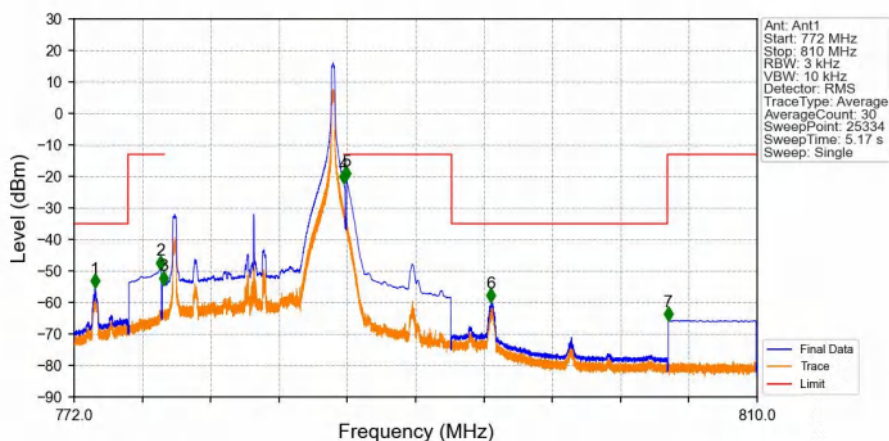


Band13 10MHz QPSK LCH 782MHz RB 50 0 NTNV



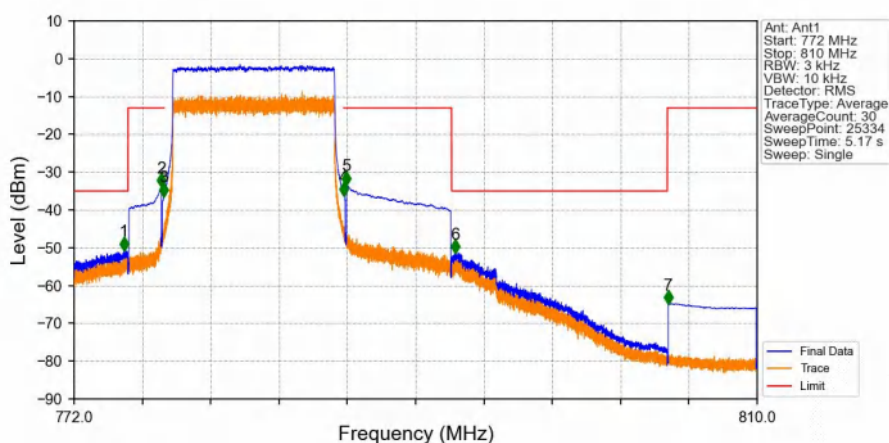
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.902	-65.91	-13	Pass
763	775	0.00625	CHP	2	774.955	-51.07	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.61	-13	Pass
776.9	777	0.03	CHP	4	776.995	-36.33	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-36.04	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.15	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 49 NTNV



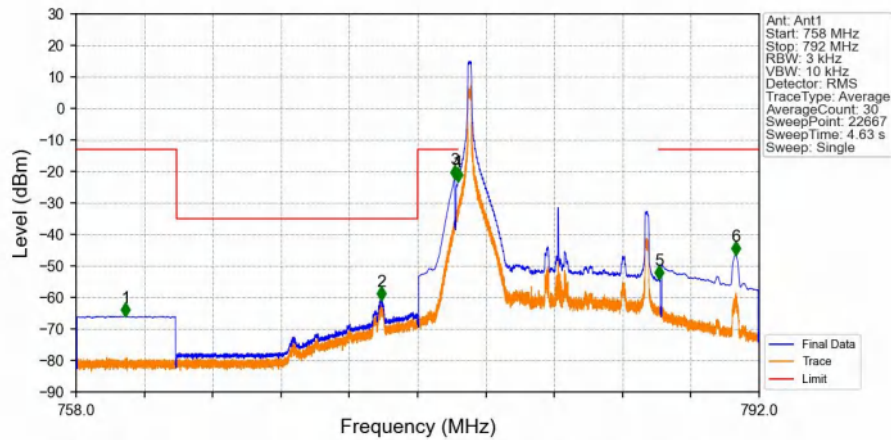
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.163	-54.97	-35	Pass
775	776.9	0.1	CHP	2	776.802	-49.27	-13	Pass
776.9	777	0.03	CHP	3	777.000	-54.08	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-21.88	-13	Pass
787.1	793	0.1	CHP	5	787.150	-20.85	-13	Pass
793	805	0.00625	CHP	6	795.193	-59.56	-35	Pass
805	810	0.1	CHP	7	805.051	-65.61	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 50 0 NTNV



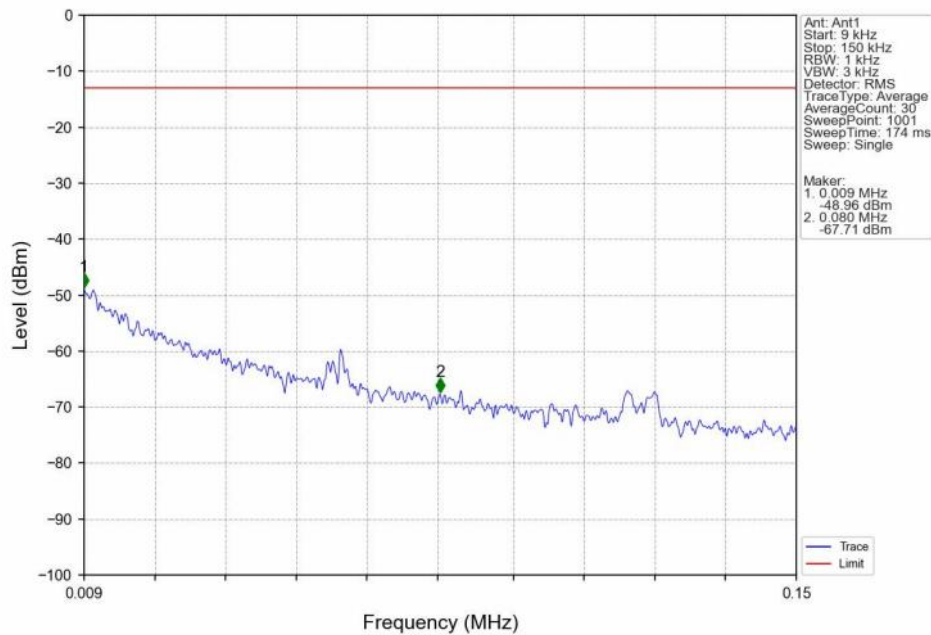
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.768	-50.47	-35	Pass
775	776.9	0.1	CHP	2	776.850	-33.78	-13	Pass
776.9	777	0.03	CHP	3	777.000	-36.15	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-36.08	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.18	-13	Pass
793	805	0.00625	CHP	6	793.195	-51.27	-35	Pass
805	810	0.1	CHP	7	805.051	-64.71	-13	Pass

Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV

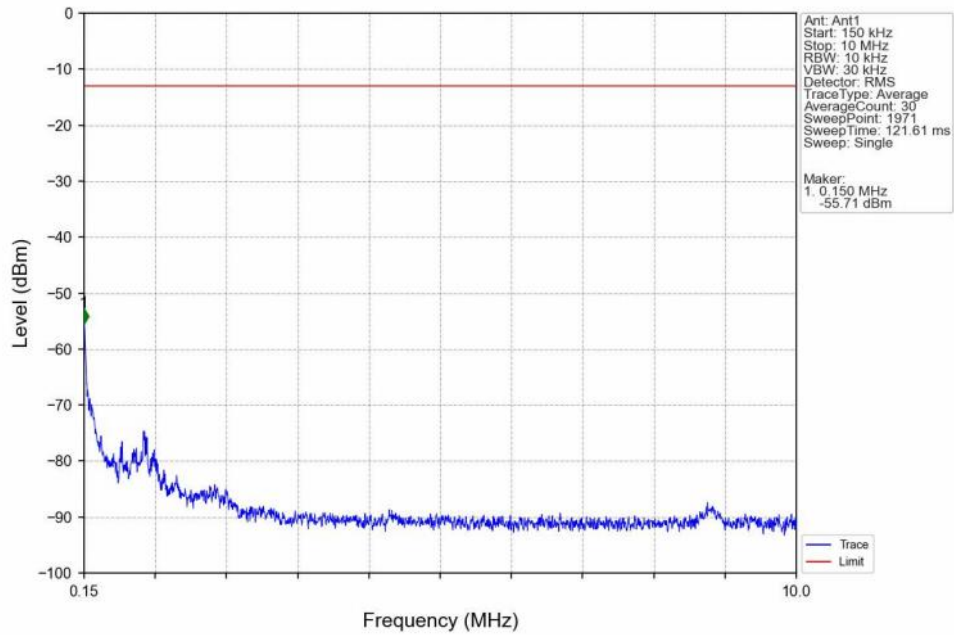


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.457	-65.82	-13	Pass
763	775	0.00625	CHP	2	773.207	-60.67	-35	Pass
775	776.9	0.1	CHP	3	776.850	-22.06	-13	Pass
776.9	777	0.03	CHP	4	777.000	-22.86	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.005	-54.06	-13	Pass
787.1	792	0.1	CHP	6	790.831	-46.34	-13	Pass

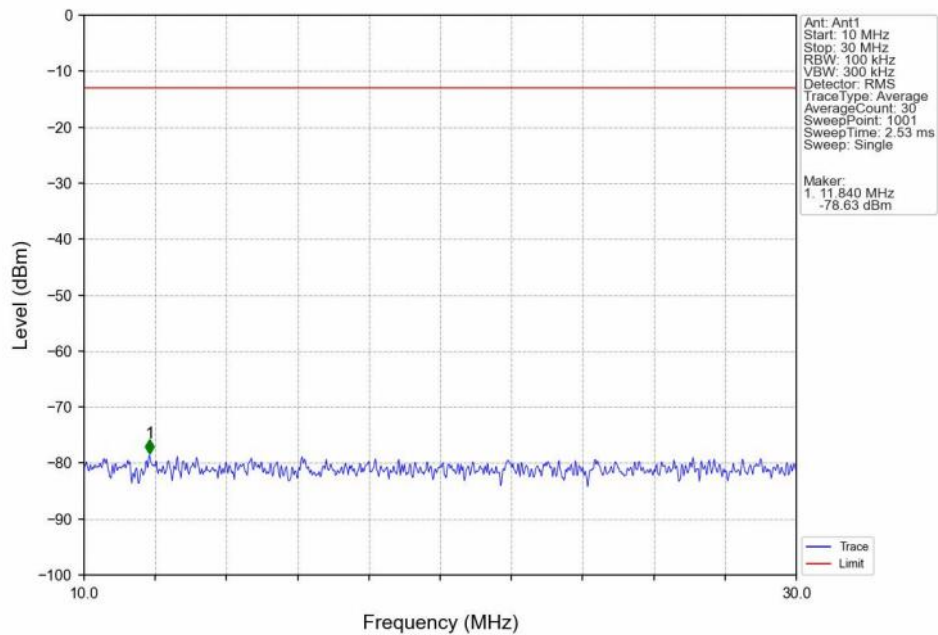
Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTNV



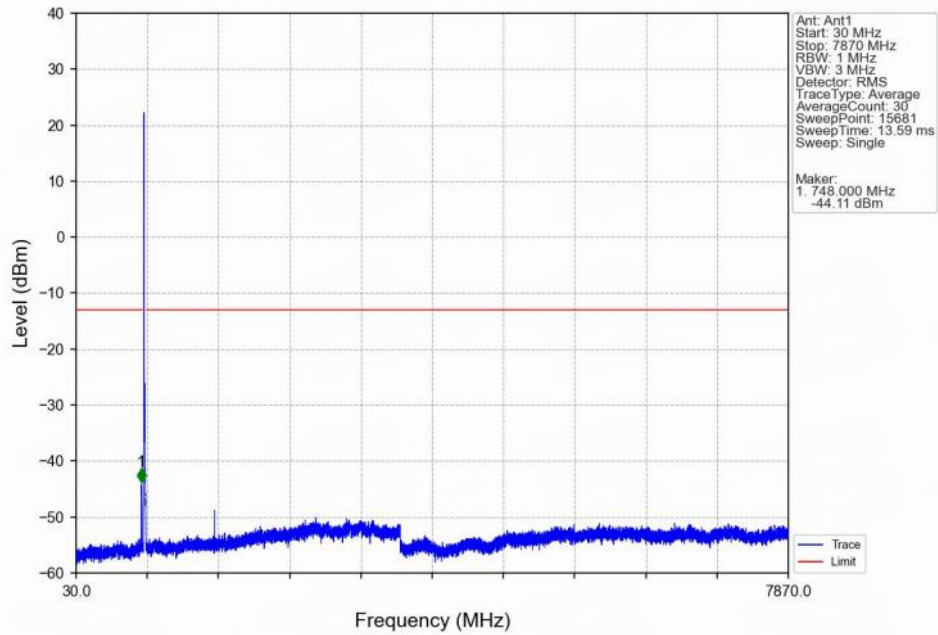
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



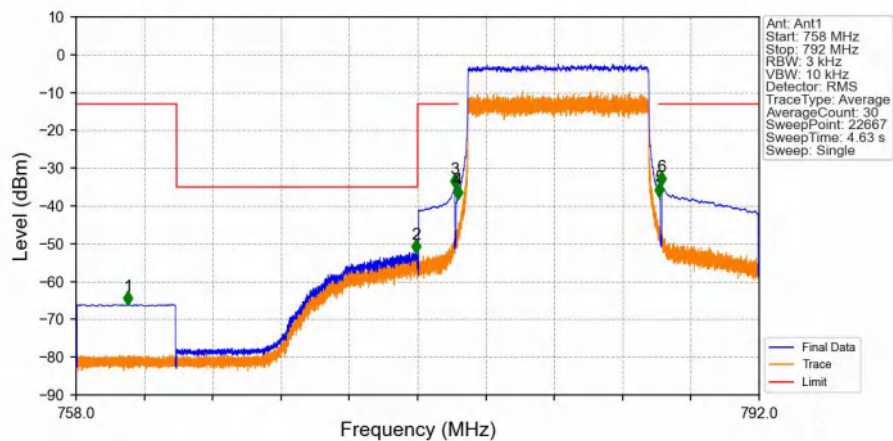
Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTV

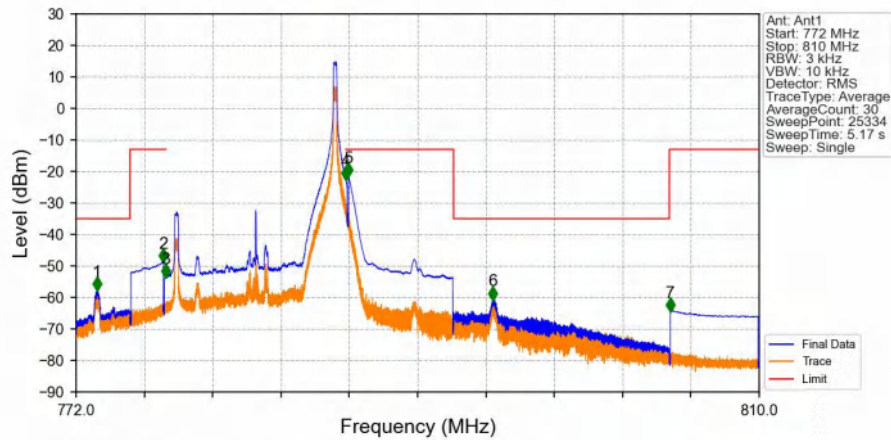


Band13 10MHz 16QAM LCH 782MHz RB 50 0 NTV



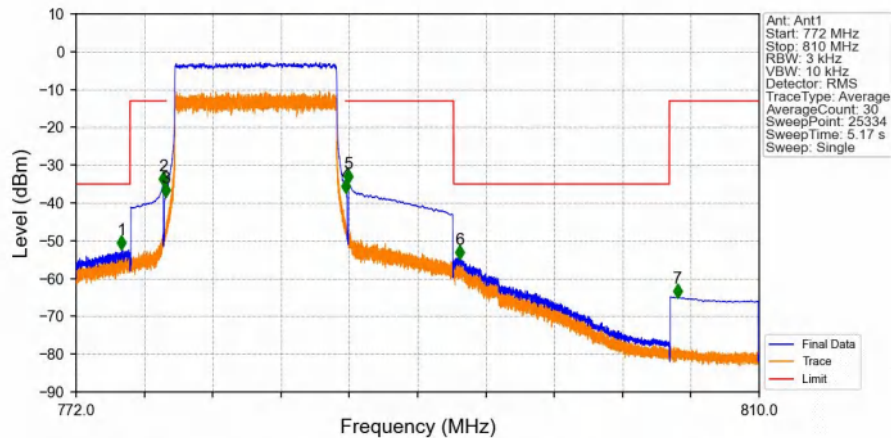
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.583	-66.00	-13	Pass
763	775	0.00625	CHP	2	774.929	-52.30	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.05	-13	Pass
776.9	777	0.03	CHP	4	776.991	-37.90	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.014	-37.22	-13	Pass
787.1	792	0.1	CHP	6	787.150	-34.37	-13	Pass

Band13 10MHz 16QAM HCH 782MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	773.166	-57.57	-35	Pass
775	776.9	0.1	CHP	2	776.839	-48.67	-13	Pass
776.9	777	0.03	CHP	3	776.992	-53.49	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-22.43	-13	Pass
787.1	793	0.1	CHP	5	787.150	-21.45	-13	Pass
793	805	0.00625	CHP	6	795.192	-60.49	-35	Pass
805	810	0.1	CHP	7	805.060	-64.20	-13	Pass

Band13 10MHz 16QAM HCH 782MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	CHP	1	774.535	-51.95	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.07	-13	Pass
776.9	777	0.03	CHP	3	776.992	-38.19	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.017	-37.12	-13	Pass
787.1	793	0.1	CHP	5	787.150	-34.48	-13	Pass
793	805	0.00625	CHP	6	793.335	-54.54	-35	Pass
805	810	0.1	CHP	7	805.465	-64.78	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.2037	0.0150	ppm	4M58G7D	27F	23.09
13	5	779.5	784.5	0.1660	0.0142	ppm	4M59W7D	27F	22.20
13	10	782	782	0.2118	0.0113	ppm	9M09G7D	27F	23.26
13	10	782	782	0.1726	0.0125	ppm	9M07W7D	27F	22.37

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.0738	0.0150	ppm	4M58G7D	27F	18.68
13	5	779.5	784.5	0.0601	0.0142	ppm	4M59W7D	27F	17.79
13	10	782	782	0.0767	0.0113	ppm	9M09G7D	27F	18.85
13	10	782	782	0.0625	0.0125	ppm	9M07W7D	27F	17.96