

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B13_5MHz_ERP

Band: 13 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	779.5	1	0	23.66	0.99	22.50	<=34.77	Pass
			13	23.80	0.99	22.64	<=34.77	Pass
			24	23.64	0.99	22.48	<=34.77	Pass
		12	0	22.75	0.99	21.59	<=34.77	Pass
			6	22.82	0.99	21.66	<=34.77	Pass
			13	22.78	0.99	21.62	<=34.77	Pass
		25	0	22.78	0.99	21.62	<=34.77	Pass
	782	1	0	23.47	0.99	22.31	<=34.77	Pass
			13	23.15	0.99	21.99	<=34.77	Pass
			24	22.94	0.99	21.78	<=34.77	Pass
		12	0	22.52	0.99	21.36	<=34.77	Pass
			6	22.38	0.99	21.22	<=34.77	Pass
			13	22.24	0.99	21.08	<=34.77	Pass
		25	0	22.35	0.99	21.19	<=34.77	Pass
	784.5	1	0	23.47	0.99	22.31	<=34.77	Pass
			13	23.30	0.99	22.14	<=34.77	Pass
			24	23.08	0.99	21.92	<=34.77	Pass
		12	0	22.59	0.99	21.43	<=34.77	Pass
			6	22.36	0.99	21.20	<=34.77	Pass
			13	22.19	0.99	21.03	<=34.77	Pass
		25	0	22.36	0.99	21.20	<=34.77	Pass
16QAM	779.5	1	0	22.77	0.99	21.61	<=34.77	Pass
			13	22.85	0.99	21.69	<=34.77	Pass
			24	22.72	0.99	21.56	<=34.77	Pass
		12	0	21.82	0.99	20.66	<=34.77	Pass
			6	21.81	0.99	20.65	<=34.77	Pass
			13	21.80	0.99	20.64	<=34.77	Pass
		25	0	21.82	0.99	20.66	<=34.77	Pass
	782	1	0	22.74	0.99	21.58	<=34.77	Pass
			13	22.45	0.99	21.29	<=34.77	Pass
			24	22.28	0.99	21.12	<=34.77	Pass
		12	0	21.53	0.99	20.37	<=34.77	Pass
			6	21.41	0.99	20.25	<=34.77	Pass
			13	21.27	0.99	20.11	<=34.77	Pass
		25	0	21.41	0.99	20.25	<=34.77	Pass
	784.5	1	0	22.84	0.99	21.68	<=34.77	Pass
			13	22.54	0.99	21.38	<=34.77	Pass
			24	22.37	0.99	21.21	<=34.77	Pass
		12	0	21.56	0.99	20.40	<=34.77	Pass
			6	21.37	0.99	20.21	<=34.77	Pass
			13	21.21	0.99	20.05	<=34.77	Pass
		25	0	21.43	0.99	20.27	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B13_10MHz_ERP

Band: 13 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	782	1	0	23.69	0.99	22.53	<=34.77	Pass
			25	23.58	0.99	22.42	<=34.77	Pass
			49	22.98	0.99	21.82	<=34.77	Pass

16QAM	782	25	0	22.78	0.99	21.62	<=34.77	Pass
			13	22.54	0.99	21.38	<=34.77	Pass
			25	22.32	0.99	21.16	<=34.77	Pass
		50	0	22.55	0.99	21.39	<=34.77	Pass
			0	22.56	0.99	21.40	<=34.77	Pass
			25	22.29	0.99	21.13	<=34.77	Pass
		1	49	21.81	0.99	20.65	<=34.77	Pass
			0	22.86	0.99	21.70	<=34.77	Pass
			19	22.62	0.99	21.46	<=34.77	Pass
		12	38	22.08	0.99	20.92	<=34.77	Pass
			0	21.79	0.99	20.63	<=34.77	Pass
			27					

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 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	-0.930	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.415	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-0.501	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				0	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.801	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band13_OBW

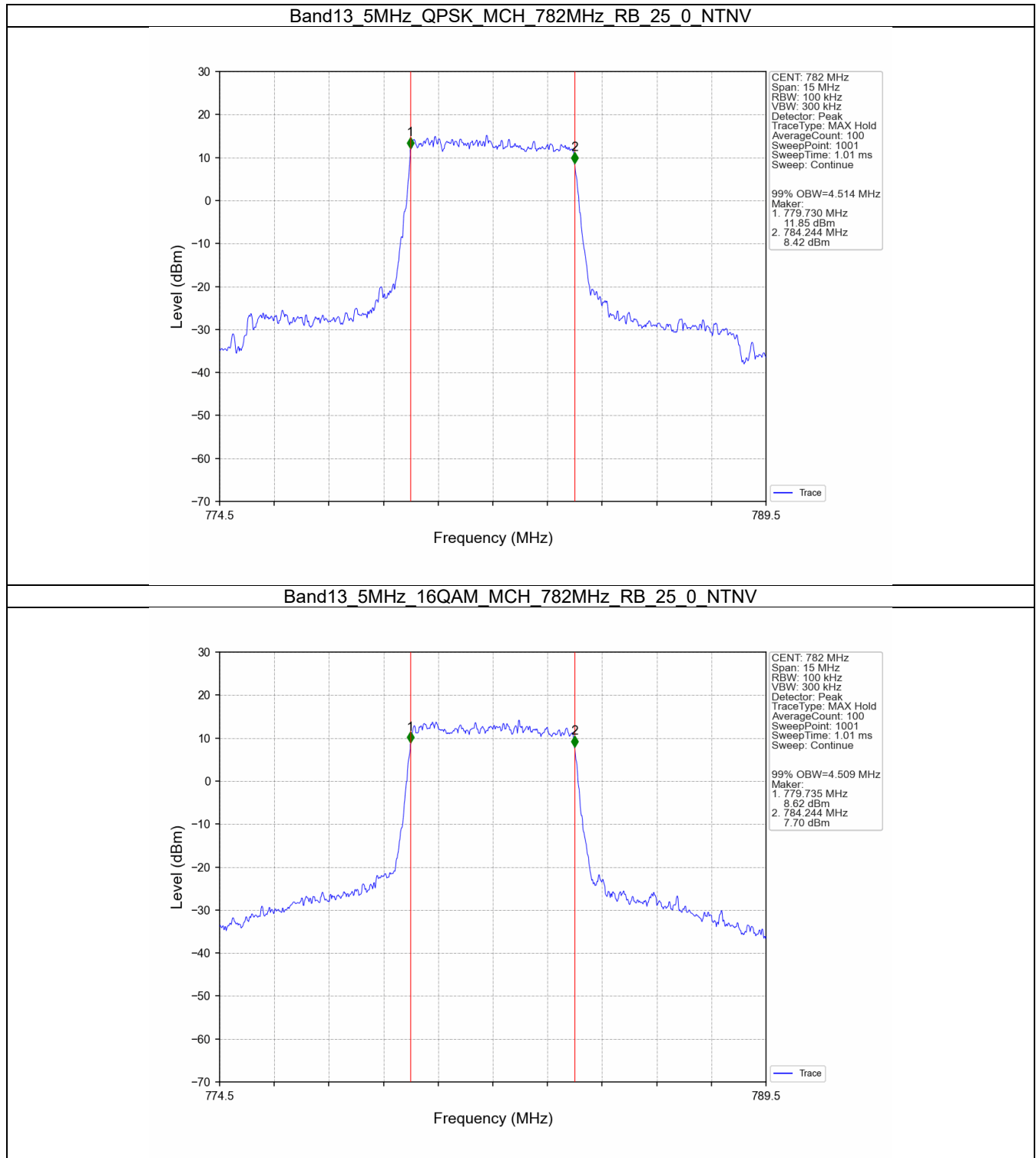
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	4.514	/	Pass
	16QAM	782	25	0	4.509	/	Pass
10	QPSK	782	50	0	8.989	/	Pass
	16QAM	782	27	0	4.992	/	Pass

3.1.2 Band13_XDB

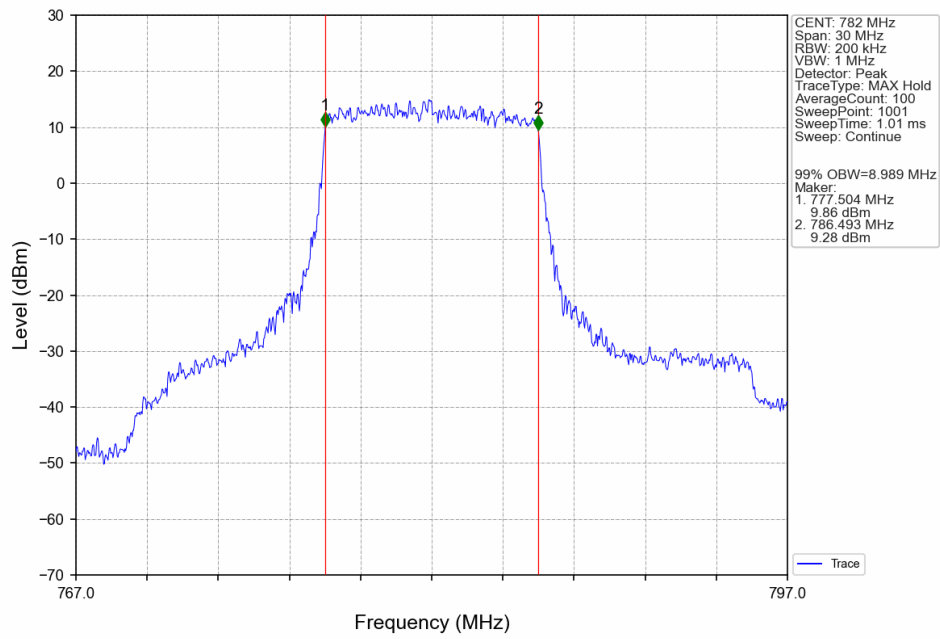
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	782	25	0	5.049	/	Pass
	16QAM	782	25	0	5.024	/	Pass
10	QPSK	782	50	0	10.216	/	Pass
	16QAM	782	27	0	6.035	/	Pass

3.2 Test Graph

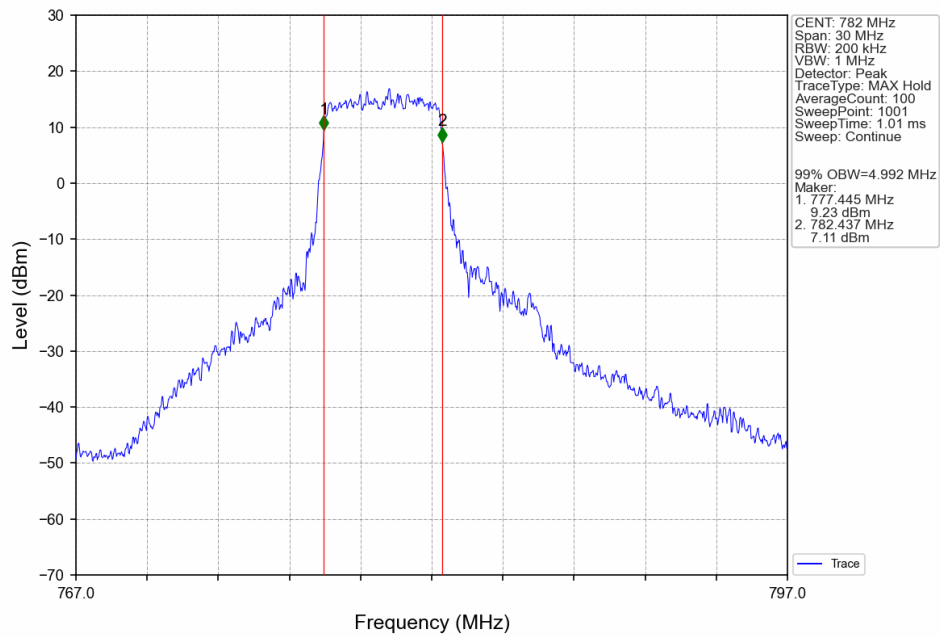
3.2.1 Band13_OBW



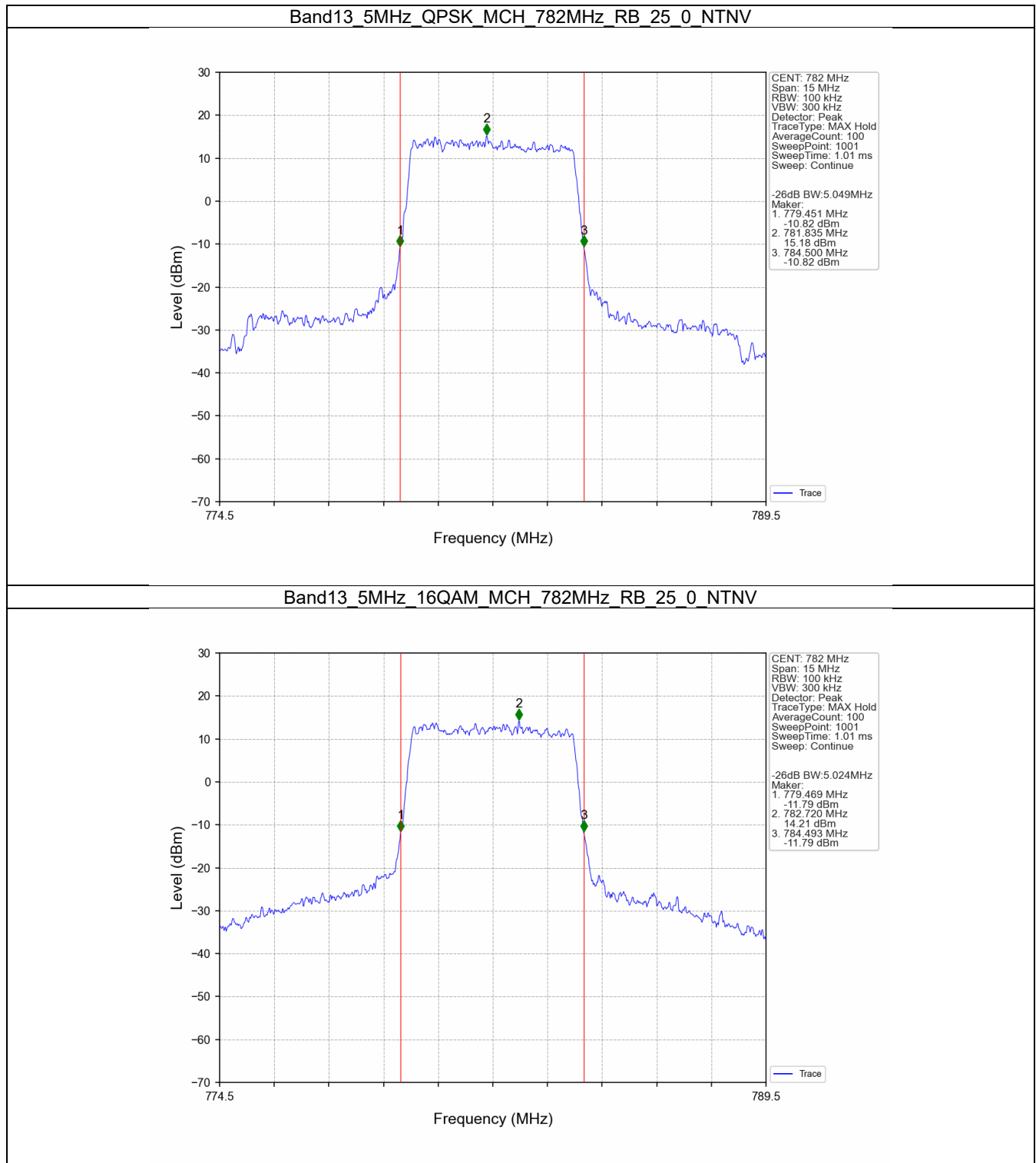
Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



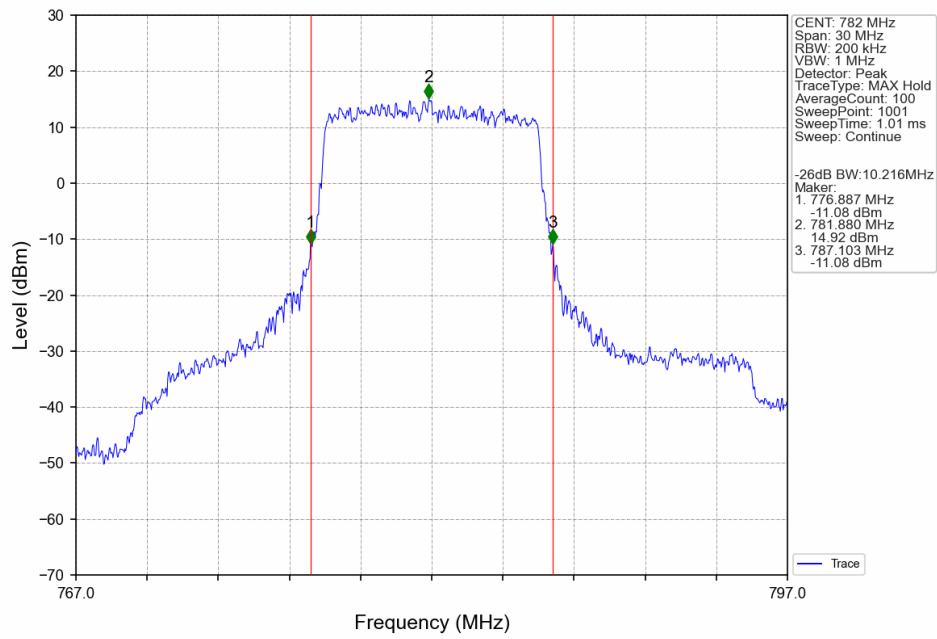
Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV



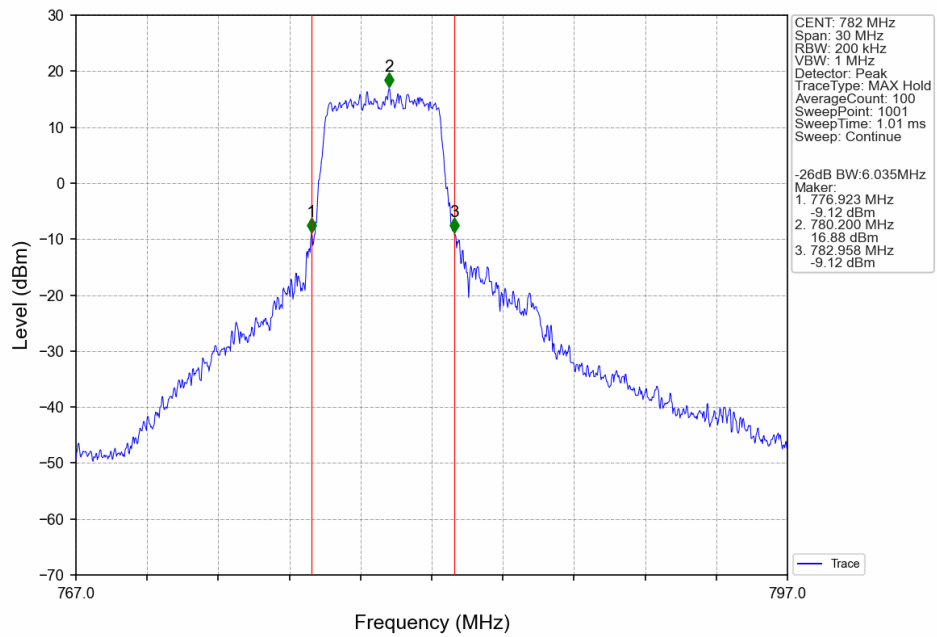
3.2.2 Band13_XDB



Band13_10MHz_QPSK_MCH_782MHz_RB_50_0_NTNV



Band13_10MHz_16QAM_MCH_782MHz_RB_27_0_NTNV



4. Peak-Average Ratio

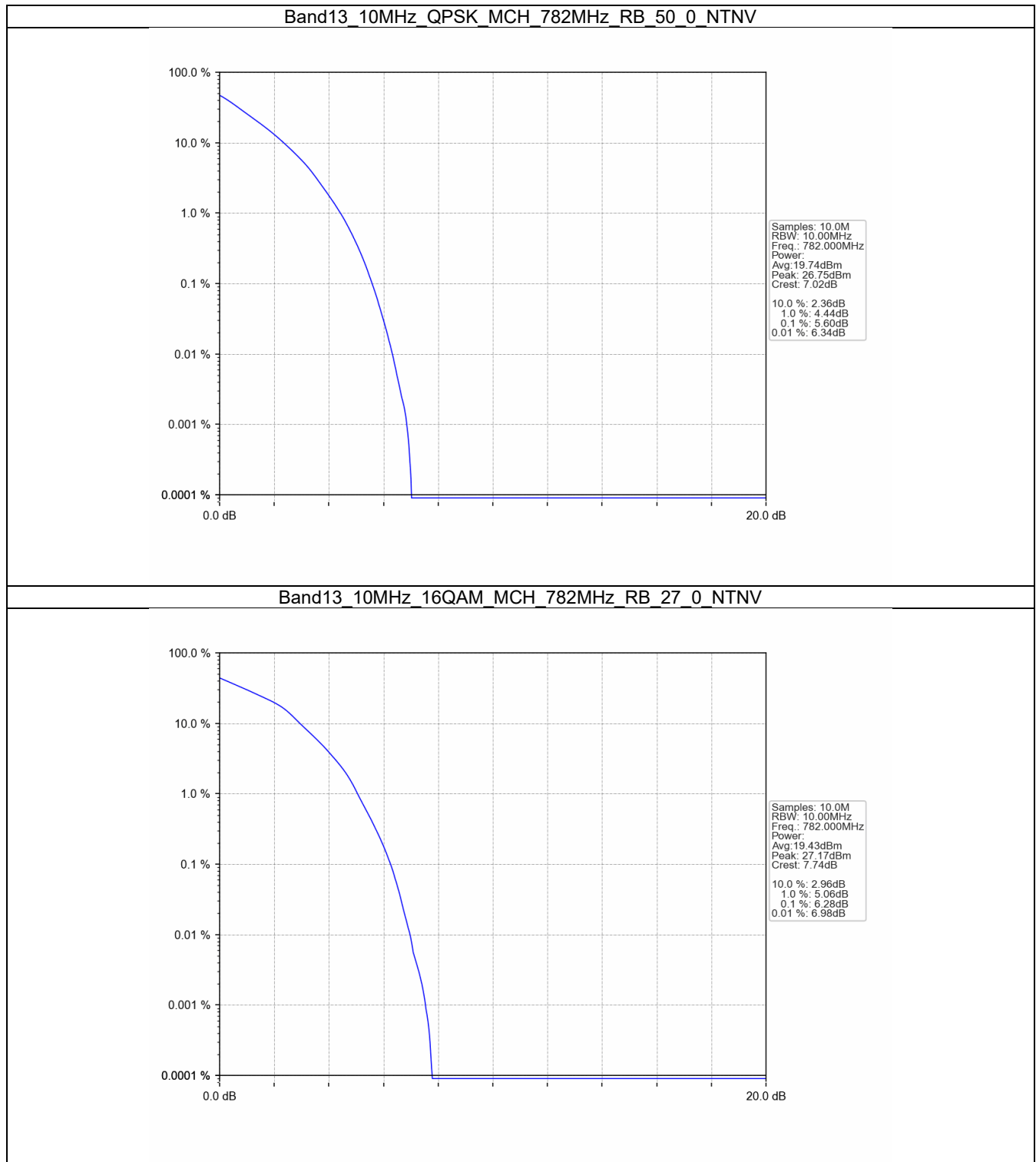
4.1 Test Result

4.1.1 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	5.60	<=13	Pass
16QAM	782	27	0	6.28	<=13	Pass

4.2 Test Graph

4.2.1 B13_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B13_5MHz

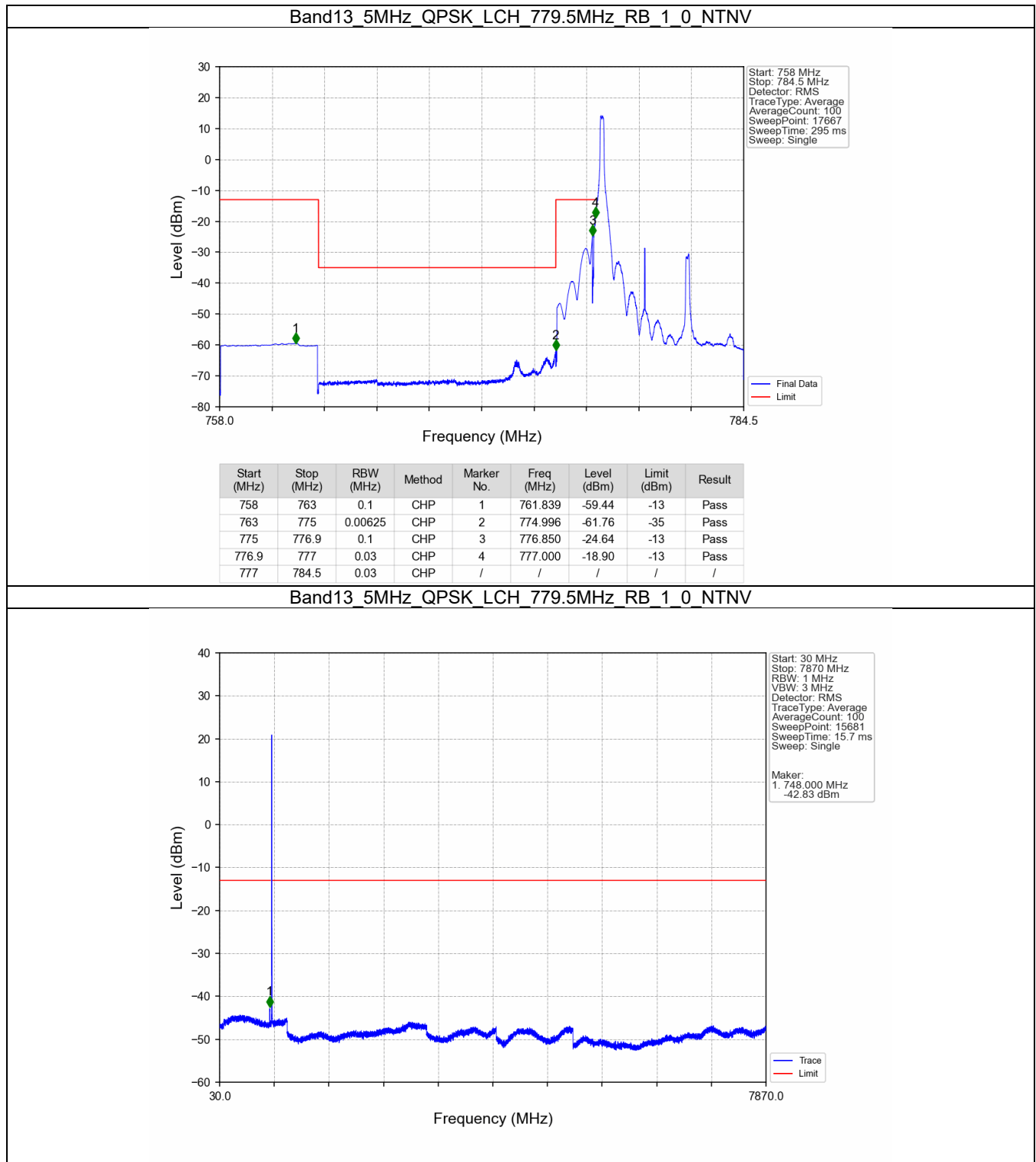
Band: 13 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B13_10MHz

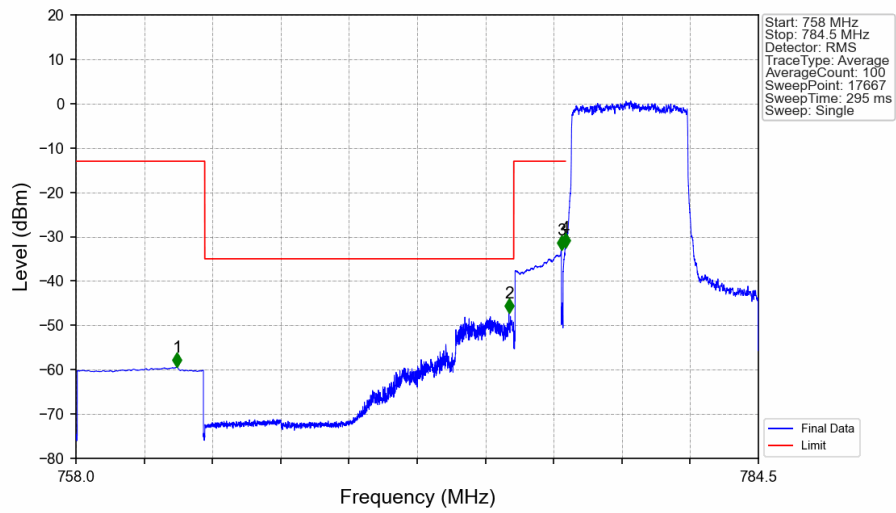
Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B13_5MHz

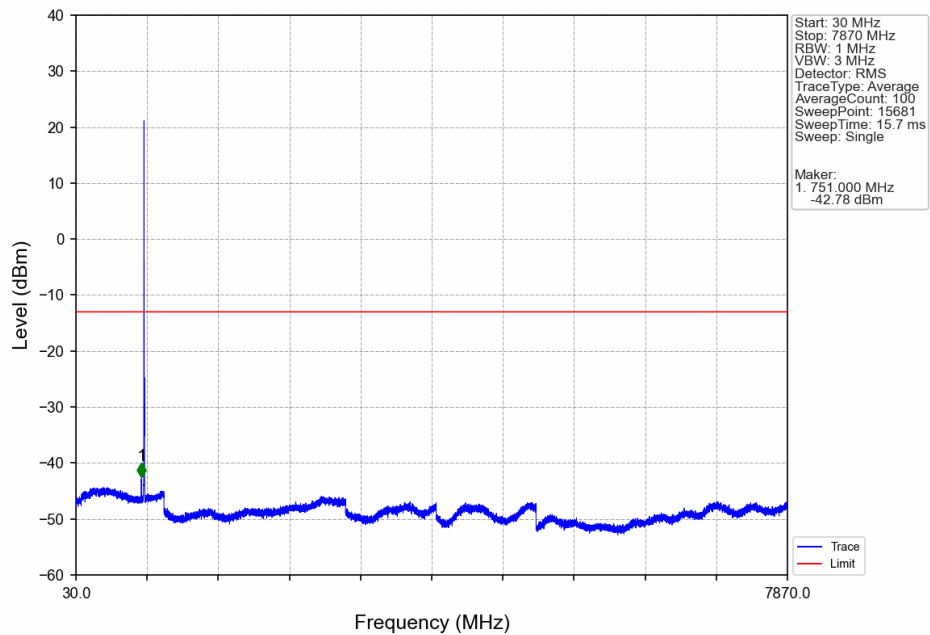


Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV

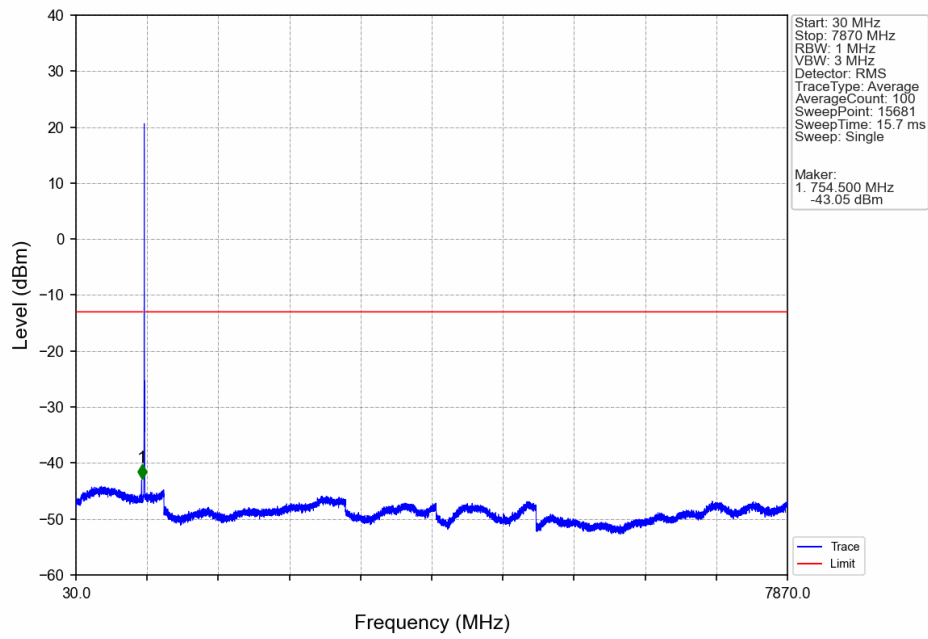


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.926	-59.42	-13	Pass
763	775	0.00625	CHP	2	774.811	-47.16	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.95	-13	Pass
776.9	777	0.03	CHP	4	777.000	-32.46	-13	Pass
777	784.5	0.03	CHP	/	/	/	/	/

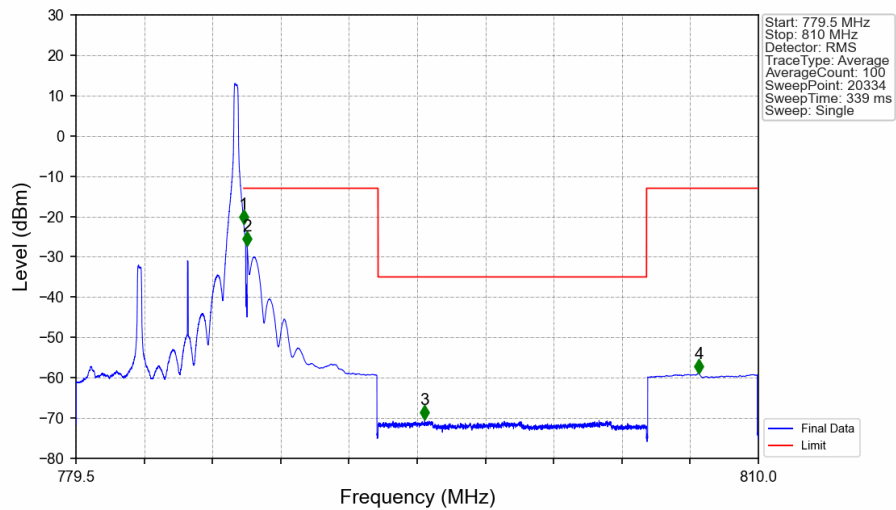
Band13_5MHz_QPSK_MCH_782MHz_RB_1_0_NTNV



Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_0_NTNV

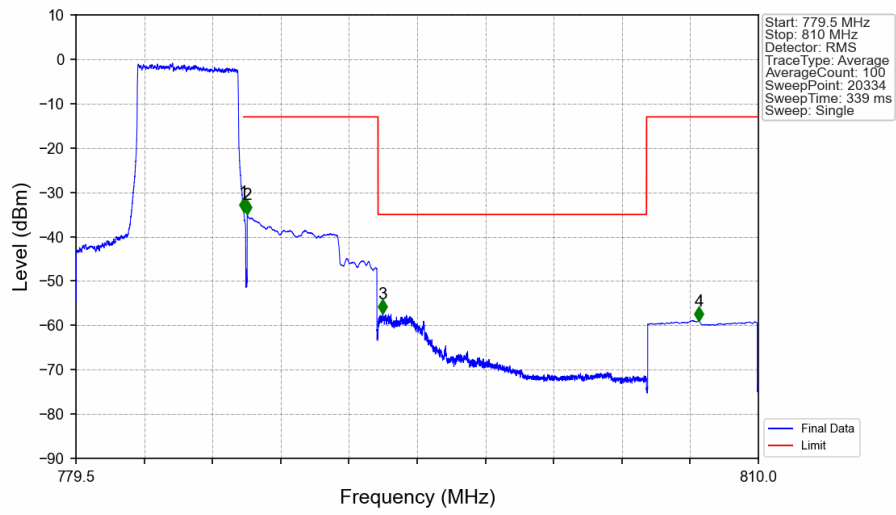


Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



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	-21.74	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.26	-13	Pass
793	805	0.00625	CHP	3	795.085	-70.33	-35	Pass
805	810	0.1	CHP	4	807.346	-58.83	-13	Pass

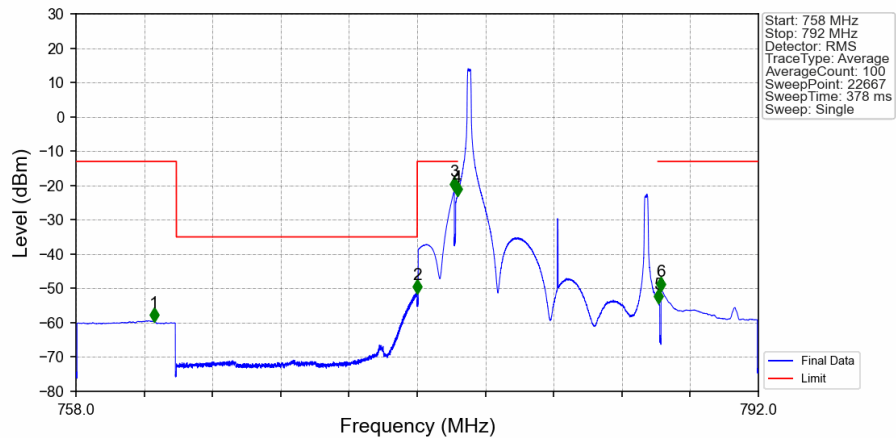
Band13_5MHz_QPSK_HCH_784.5MHz_RB_25_0_NTNV



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	787.000	-34.44	-13	Pass
787.1	793	0.1	CHP	2	787.153	-34.85	-13	Pass
793	805	0.00625	CHP	3	793.209	-57.30	-35	Pass
805	810	0.1	CHP	4	807.346	-58.93	-13	Pass

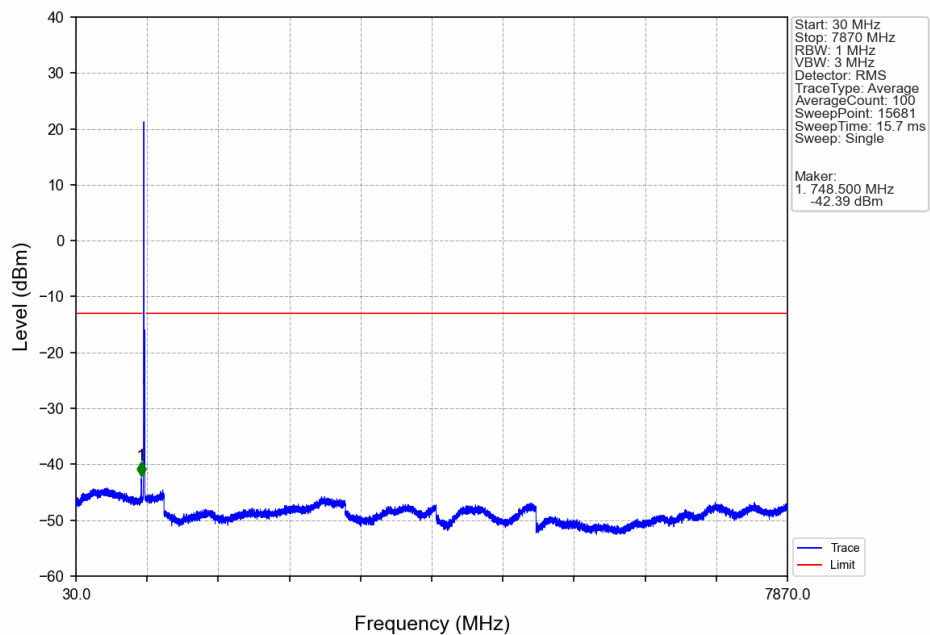
5.2.2 B13_10MHz

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

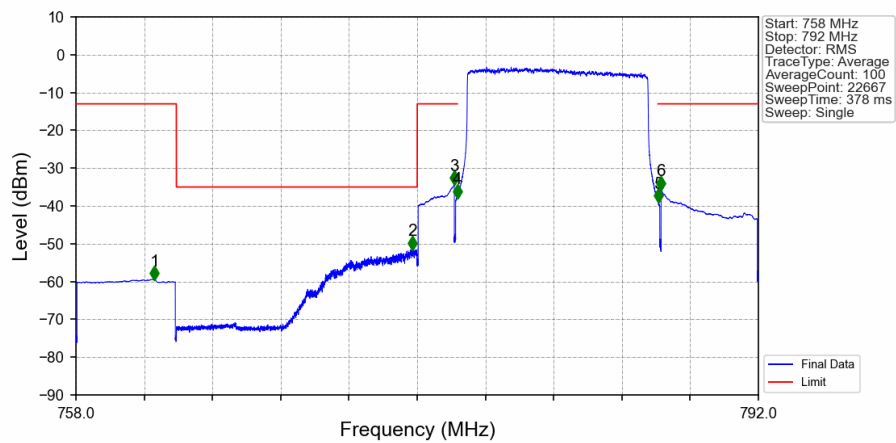


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.881	-59.40	-13	Pass
763	775	0.00625	CHP	2	774.995	-51.25	-35	Pass
775	776.9	0.1	CHP	3	776.850	-21.27	-13	Pass
776.9	777	0.03	CHP	4	777.000	-22.73	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.024	-54.01	-13	Pass
787.1	792	0.1	CHP	6	787.150	-50.41	-13	Pass

Band13_10MHz_QPSK_LCH_782MHz_RB_1_0_NTNV

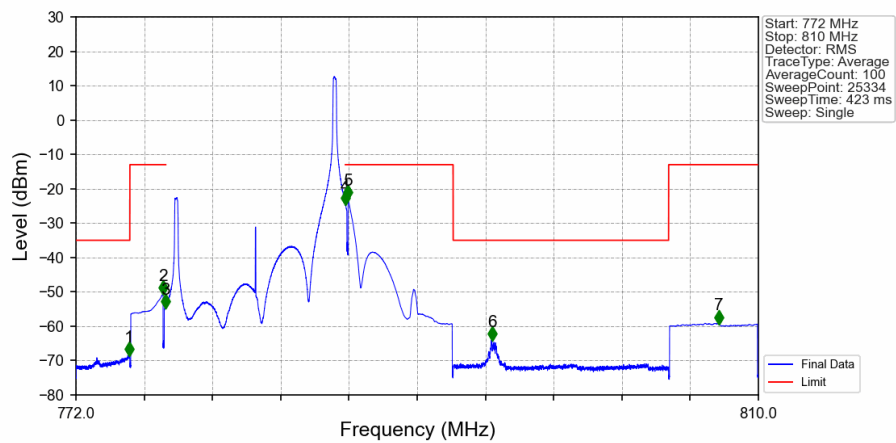


Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



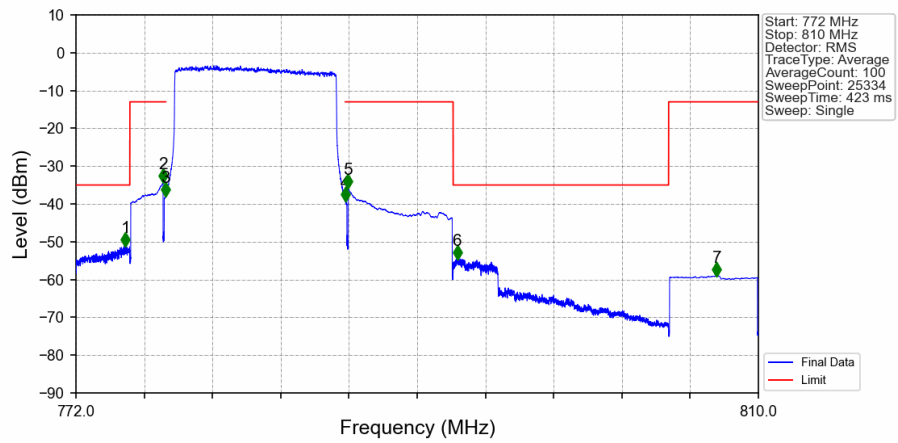
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.903	-59.38	-13	Pass
763	775	0.00625	CHP	2	774.758	-51.35	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.06	-13	Pass
776.9	777	0.03	CHP	4	777.000	-37.68	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	5	787.000	-38.88	-13	Pass
787.1	792	0.1	CHP	6	787.150	-35.53	-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	774.967	-68.39	-35	Pass
775	776.9	0.1	CHP	2	776.850	-50.57	-13	Pass
776.9	777	0.03	CHP	3	776.982	-54.46	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-24.48	-13	Pass
787.1	793	0.1	CHP	5	787.150	-22.85	-13	Pass
793	805	0.00625	CHP	6	795.162	-63.98	-35	Pass
805	810	0.1	CHP	7	807.796	-59.08	-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	774.759	-51.01	-35	Pass
775	776.9	0.1	CHP	2	776.850	-34.16	-13	Pass
776.9	777	0.03	CHP	3	777.000	-37.79	-13	Pass
777	787	0.03	CHP	/	/	/	/	/
787	787.1	0.03	CHP	4	787.000	-39.02	-13	Pass
787.1	793	0.1	CHP	5	787.150	-35.59	-13	Pass
793	805	0.00625	CHP	6	793.225	-54.41	-35	Pass
805	810	0.1	CHP	7	807.684	-58.85	-13	Pass

- End of the Report -