1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B26a_1.4MHz_ERP

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	22.50	<=50	Pass
			2	22.60	<=50	Pass
			5	22.52	<=50	Pass
		3	0	22.61	<=50	Pass
			2	22.62	<=50	Pass
			3	22.61	<=50	Pass
		6	0	21.56	<=50	Pass
	819	1	0	22.55	<=50	Pass
			2	22.66	<=50	Pass
			5	22.52	<=50	Pass
		3	0	22.65	<=50	Pass
			2	22.67	<=50	Pass
			3	22.65	<=50	Pass
		6	0	21.57	<=50	Pass
	823.3	1	0	22.42	<=50	Pass
			2	22.54	<=50	Pass
			5	22.51	<=50	Pass
		3	0	22.56	<=50	Pass
			2	22.57	<=50	Pass
			3	22.55	<=50	Pass
		6	0	21.53	<=50	Pass
16QAM	814.7	1	0	21.57	<=50	Pass
			2	21.78	<=50	Pass
			5	21.60	<=50	Pass
		3	0	21.79	<=50	Pass
			2	21.62	<=50	Pass
			3	21.67	<=50	Pass
		6	0	20.64	<=50	Pass
	819	1	0	21.69	<=50	Pass
			2	21.68	<=50	Pass
			5	21.67	<=50	Pass
		3	0	21.72	<=50	Pass
			2	21.86	<=50	Pass
			3	21.66	<=50	Pass
		6	0	20.59	<=50	Pass
	823.3	1	0	21.66	<=50	Pass
			2	21.58	<=50	Pass
			5	21.50	<=50	Pass
		3	0	21.54	<=50	Pass
			2	21.57	<=50	Pass
			3	21.62	<=50	Pass
		6	0	20.57	<=50	Pass

1.1.2 B26a_3MHz_ERP

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	1	0	22.60	<=50	Pass
			7	22.70	<=50	Pass
			14	22.57	<=50	Pass
		8	0	21.55	<=50	Pass
			4	21.58	<=50	Pass
			7	21.55	<=50	Pass
		15	0	21.57	<=50	Pass
	819	1	0	22.58	<=50	Pass
			7	22.69	<=50	Pass
			14	22.54	<=50	Pass
		8	0	21.55	<=50	Pass
			4	21.60	<=50	Pass
			7	21.55	<=50	Pass
		15	0	21.56	<=50	Pass
	822.5	1	0	22.54	<=50	Pass
			7	22.68	<=50	Pass
			14	22.48	<=50	Pass
		8	0	21.54	<=50	Pass
			4	21.52	<=50	Pass
			7	21.48	<=50	Pass
		15	0	21.54	<=50	Pass
16QAM	815.5	1	0	21.74	<=50	Pass
			7	21.73	<=50	Pass
			14	22.09	<=50	Pass
		8	0	20.59	<=50	Pass
			4	20.70	<=50	Pass
			7	20.75	<=50	Pass
		15	0	20.64	<=50	Pass
	819	1	0	22.16	<=50	Pass
			7	21.88	<=50	Pass
			14	21.60	<=50	Pass
		8	0	20.76	<=50	Pass
			4	20.64	<=50	Pass
			7	20.68	<=50	Pass
		15	0	20.70	<=50	Pass
	822.5	1	0	21.61	<=50	Pass
			7	22.24	<=50	Pass
			14	21.70	<=50	Pass
		8	0	20.66	<=50	Pass
			4	20.74	<=50	Pass
			7	20.54	<=50	Pass
		15	0	20.64	<=50	Pass

1.1.3 B26a_5MHz_ERP

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	22.47	<=50	Pass
			13	22.61	<=50	Pass
			24	22.53	<=50	Pass
		12	0	21.50	<=50	Pass
			6	21.60	<=50	Pass
			13	21.57	<=50	Pass
		25	0	21.58	<=50	Pass
	819	1	0	22.44	<=50	Pass
			13	22.65	<=50	Pass
			24	22.48	<=50	Pass
		12	0	21.52	<=50	Pass
			6	21.60	<=50	Pass
			13	21.53	<=50	Pass
		25	0	21.53	<=50	Pass
	821.5	1	0	22.50	<=50	Pass
			13	22.58	<=50	Pass
			24	22.46	<=50	Pass
		12	0	21.59	<=50	Pass
			6	21.59	<=50	Pass
			13	21.43	<=50	Pass
		25	0	21.54	<=50	Pass
16QAM	816.5	1	0	21.64	<=50	Pass
			13	21.43	<=50	Pass
			24	21.79	<=50	Pass
		12	0	20.55	<=50	Pass
			6	20.64	<=50	Pass
			13	20.69	<=50	Pass
		25	0	20.65	<=50	Pass
	819	1	0	21.73	<=50	Pass
			13	21.74	<=50	Pass
			24	21.35	<=50	Pass
		12	0	20.64	<=50	Pass
			6	20.66	<=50	Pass
			13	20.58	<=50	Pass
		25	0	20.62	<=50	Pass
	821.5	1	0	21.33	<=50	Pass
			13	21.82	<=50	Pass
			24	21.60	<=50	Pass
		12	0	20.64	<=50	Pass
			6	20.67	<=50	Pass
			13	20.48	<=50	Pass
		25	0	20.67	<=50	Pass

1.1.4 B26a_10MHz_ERP

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	22.58	<=50	Pass
			25	22.69	<=50	Pass
			49	22.53	<=50	Pass
		25	0	21.48	<=50	Pass
			13	21.60	<=50	Pass
			25	21.48	<=50	Pass
		50	0	21.49	<=50	Pass
16QAM	819	1	0	22.13	<=50	Pass
			25	21.91	<=50	Pass
			49	21.57	<=50	Pass
		25	0	20.64	<=50	Pass
			13	20.69	<=50	Pass
			25	20.60	<=50	Pass
		50	0	20.58	<=50	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B26a_10MHz

Band: 26a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	819	50	0	20	3.40	-6.881	-0.0084	-2.5 to 2.5	Pass
					3.70	-4.892	-0.0060	-2.5 to 2.5	Pass
					4.20	-5.951	-0.0073	-2.5 to 2.5	Pass
				-30	3.70	-6.008	-0.0073	-2.5 to 2.5	Pass
				-20	3.70	-5.293	-0.0065	-2.5 to 2.5	Pass
				-10	3.70	-5.507	-0.0067	-2.5 to 2.5	Pass
				0	3.70	-7.224	-0.0088	-2.5 to 2.5	Pass
				10	3.70	-9.227	-0.0113	-2.5 to 2.5	Pass
				30	3.70	-2.317	-0.0028	-2.5 to 2.5	Pass
				40	3.70	-8.197	-0.0100	-2.5 to 2.5	Pass
				50	3.70	-7.210	-0.0088	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band26a_OBW

Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	819	6	0	1.105	/	Pass
	16QAM	819	6	0	1.112	/	Pass
3	QPSK	819	15	0	2.725	/	Pass
	16QAM	819	15	0	2.718	/	Pass
5	QPSK	819	25	0	4.537	/	Pass
	16QAM	819	25	0	4.532	/	Pass
10	QPSK	819	50	0	9.034	/	Pass
	16QAM	819	50	0	9.006	/	Pass

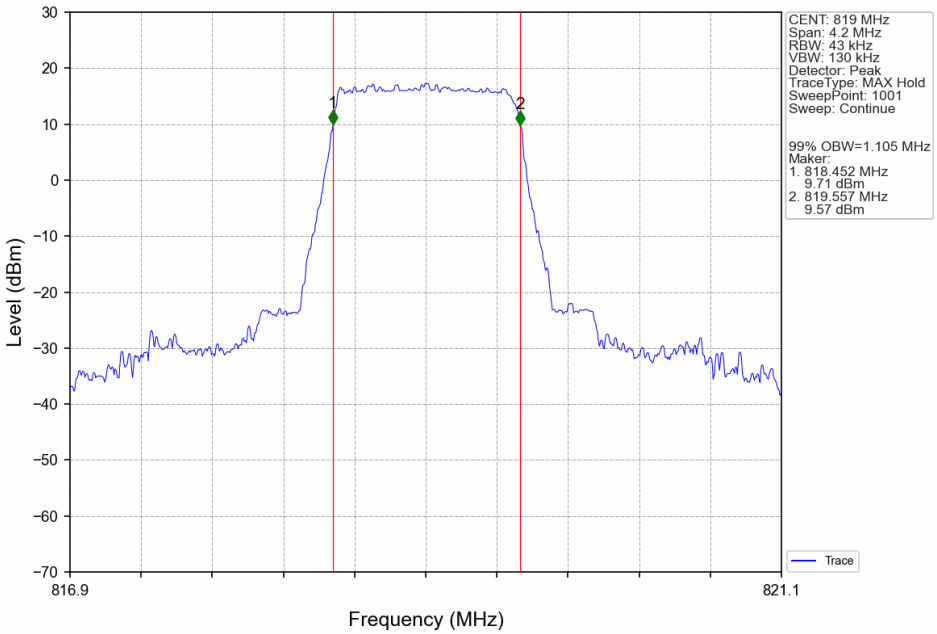
3.1.2 Band26a_XDB

Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	819	6	0	1.306	/	Pass
	16QAM	819	6	0	1.323	/	Pass
3	QPSK	819	15	0	2.998	/	Pass
	16QAM	819	15	0	2.997	/	Pass
5	QPSK	819	25	0	5.011	/	Pass
	16QAM	819	25	0	4.999	/	Pass
10	QPSK	819	50	0	9.954	/	Pass
	16QAM	819	50	0	9.859	/	Pass

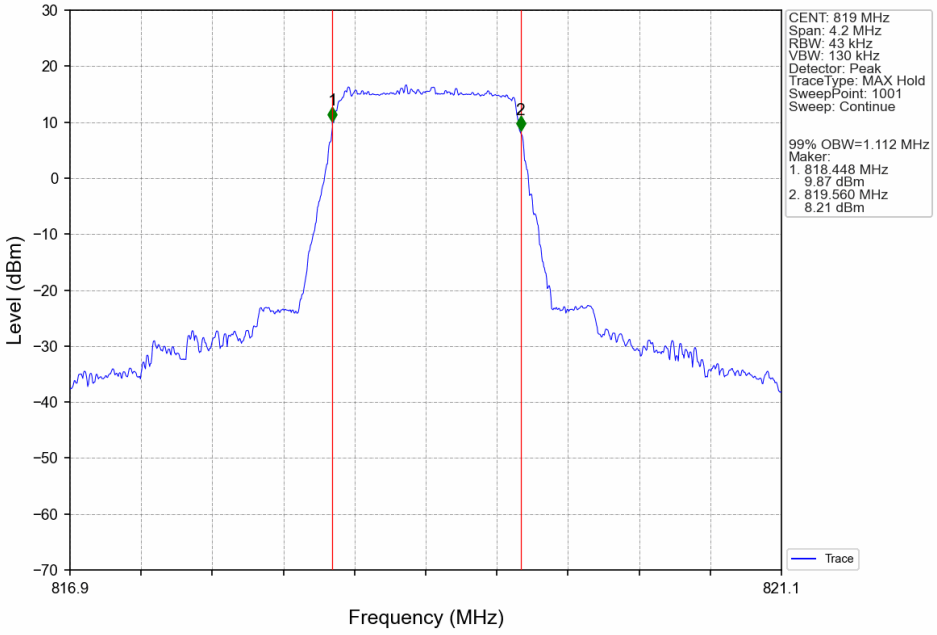
3.2 Test Graph

3.2.1 Band26a_OBW

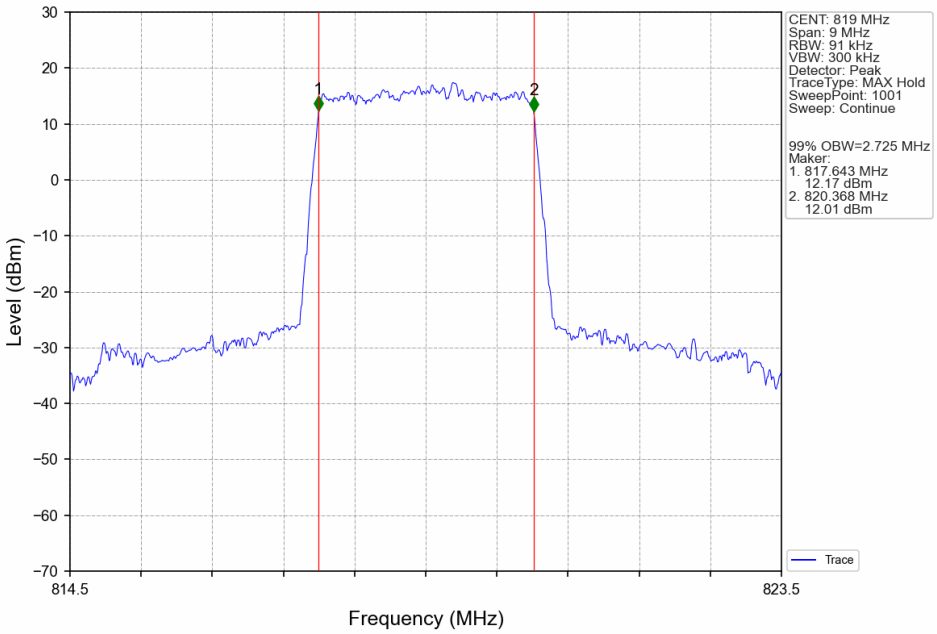
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV



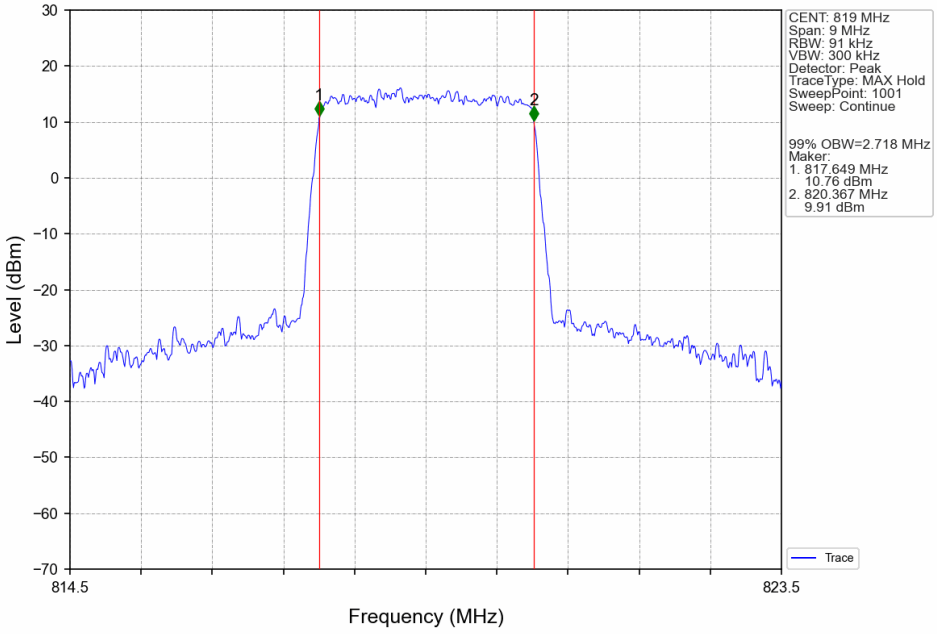
Band26a_1.4MHz_16QAM_MCH_819MHz_RB_6_0_NTNV



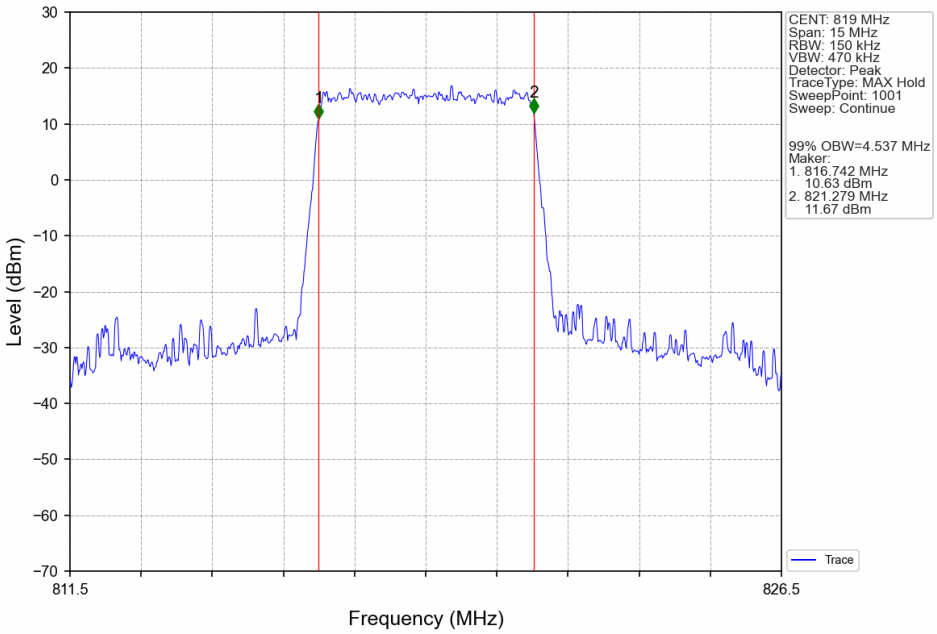
Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV



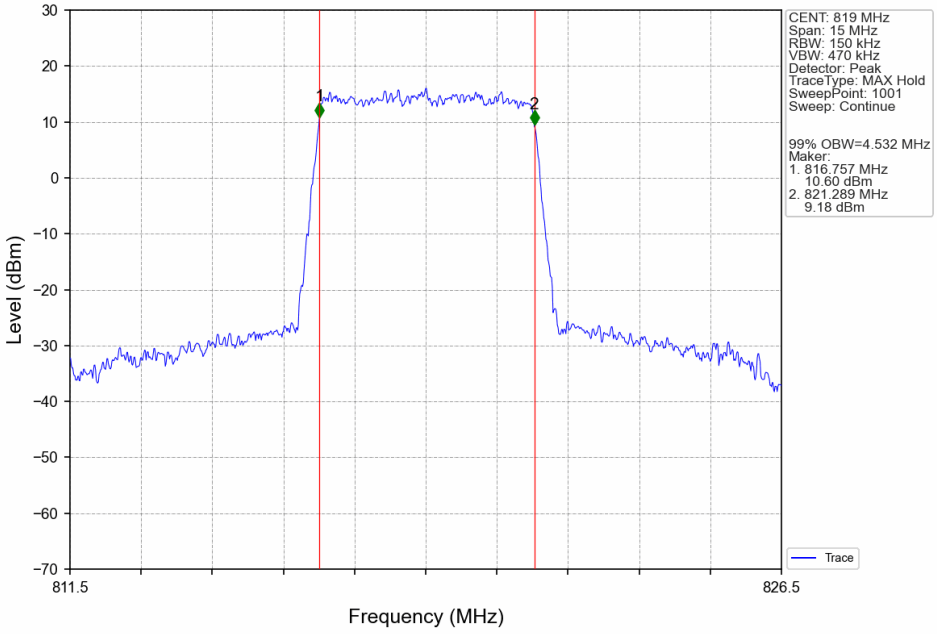
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



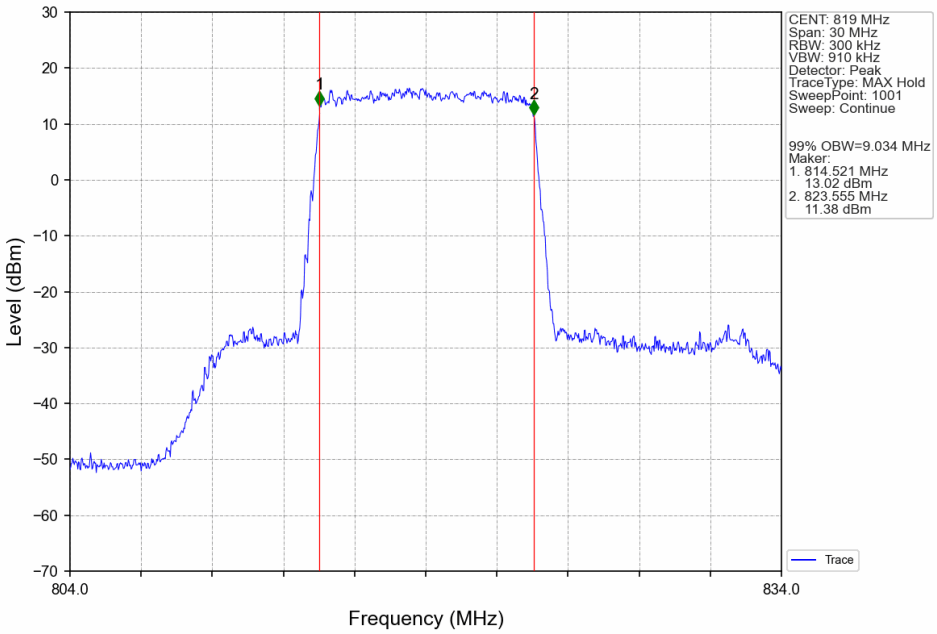
Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



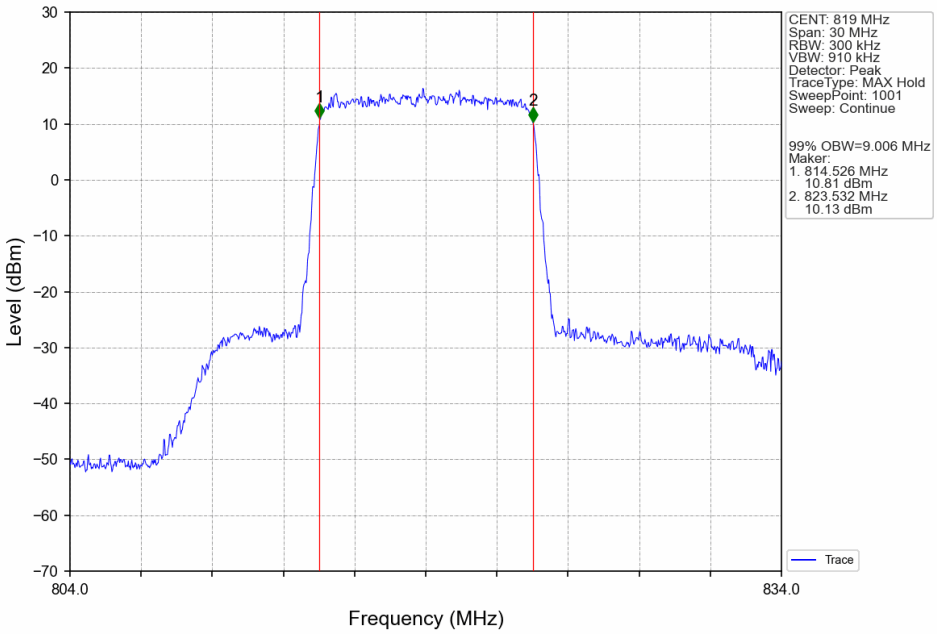
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV

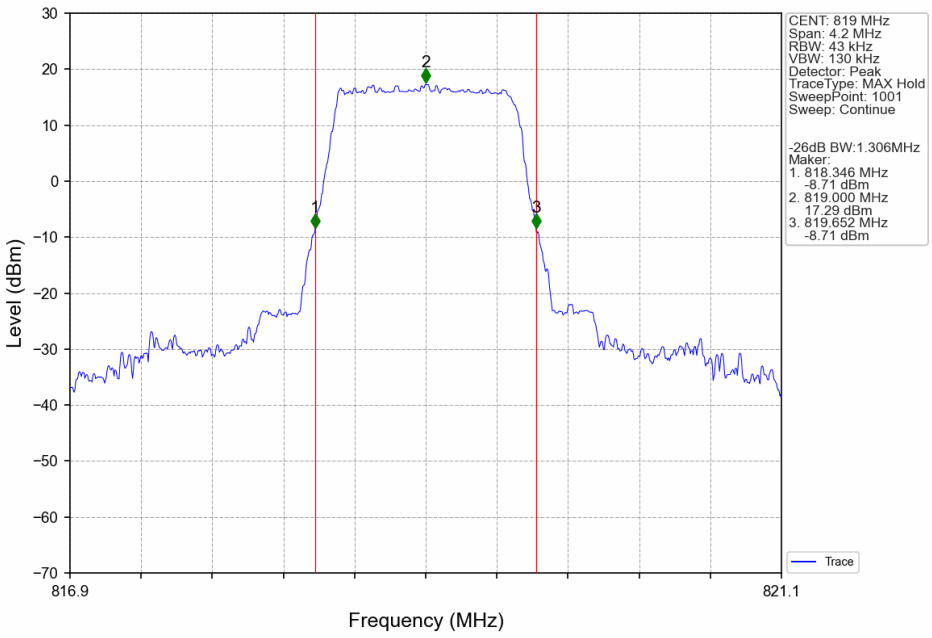


Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV

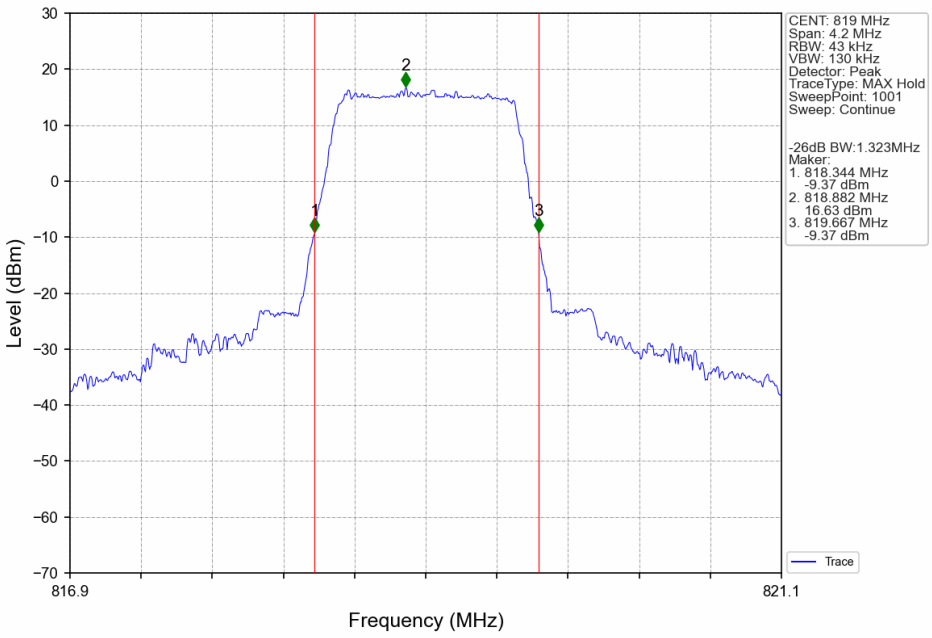


3.2.2 Band26a_XDB

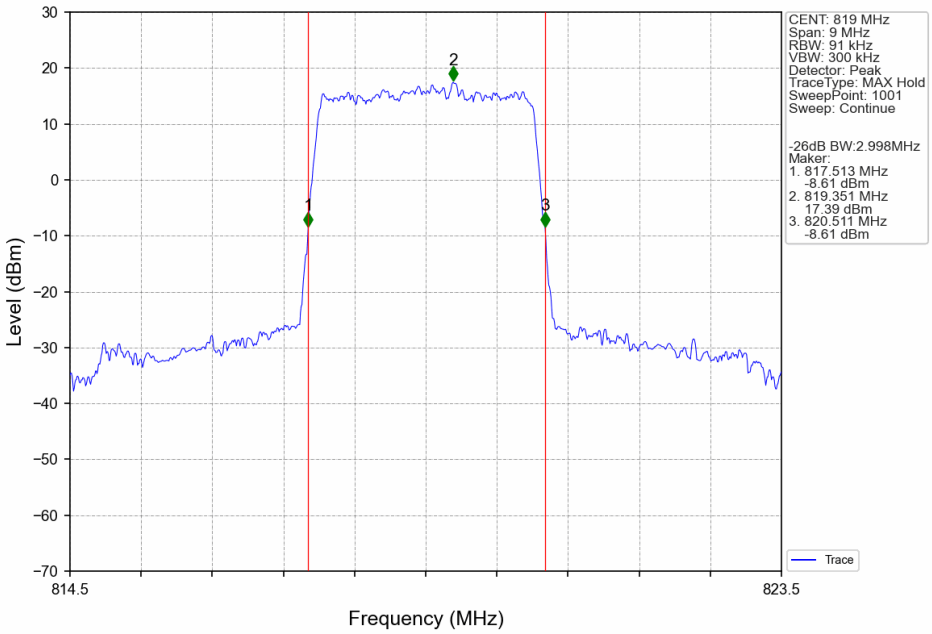
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV



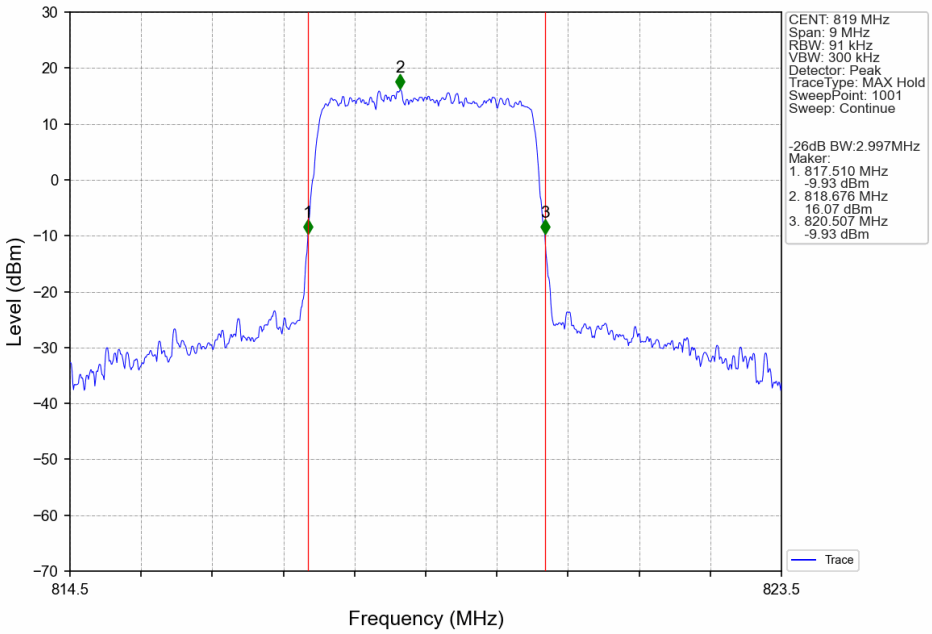
Band26a_1.4MHz_16QAM_MCH_819MHz_RB_6_0_NTNV



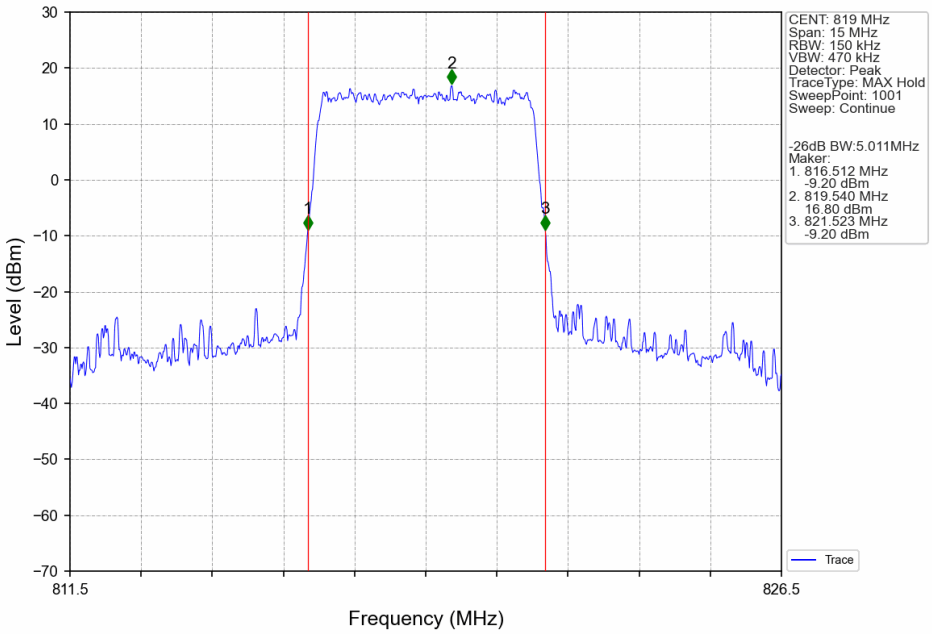
Band26a_3MHz_QPSK_MCH_819MHz_RB_15_0_NTNV



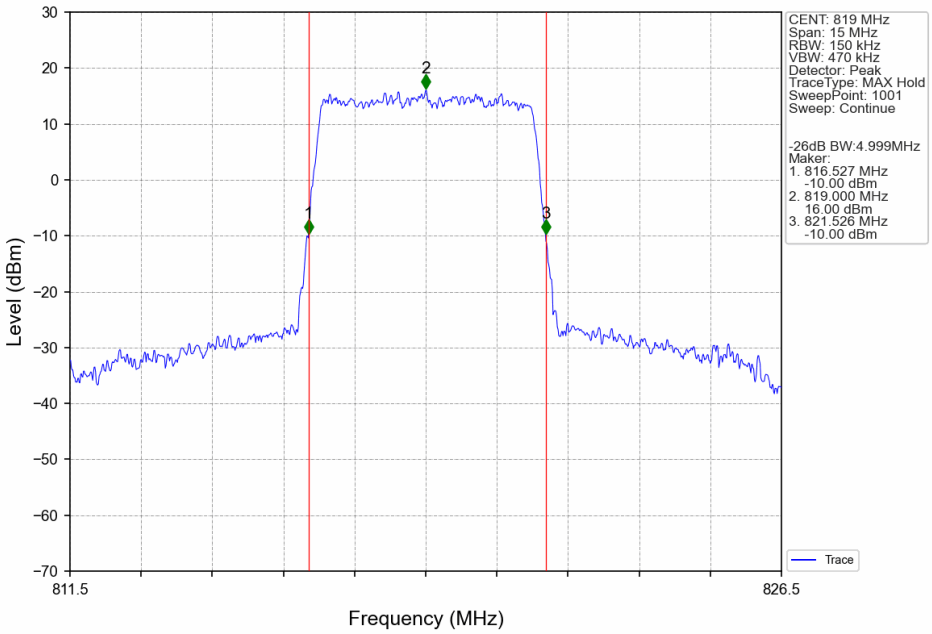
Band26a_3MHz_16QAM_MCH_819MHz_RB_15_0_NTNV



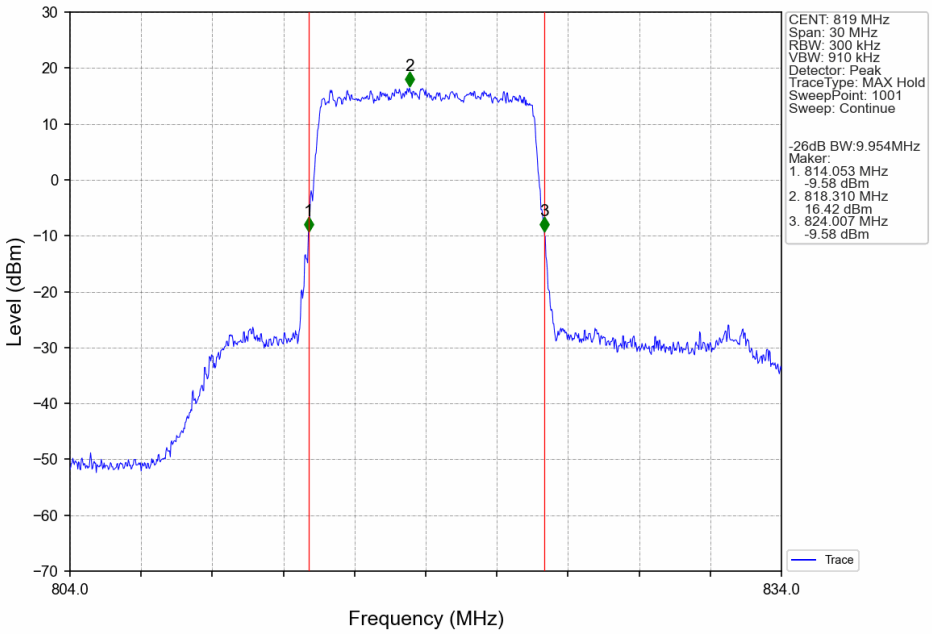
Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



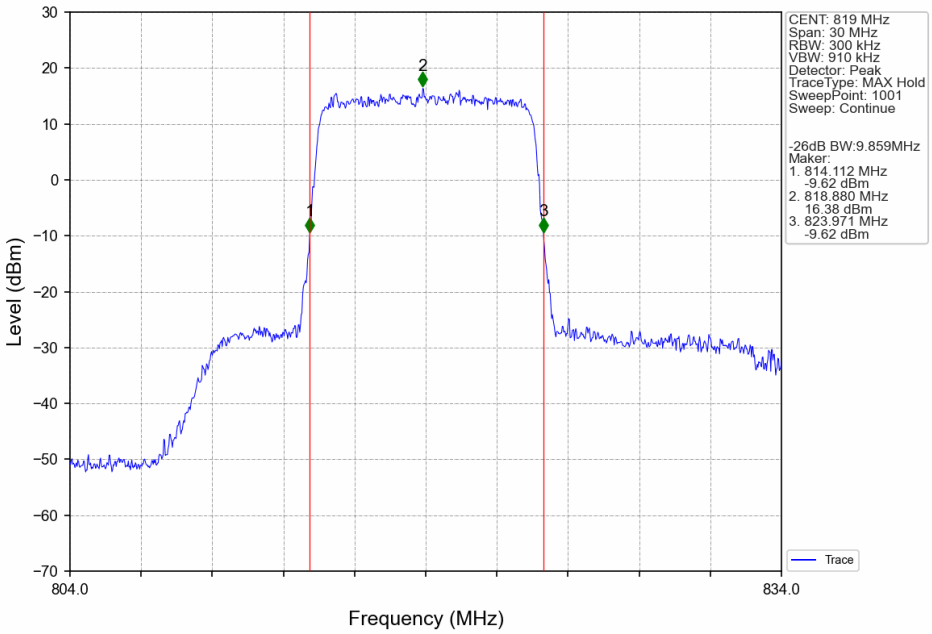
Band26a_5MHz_16QAM_MCH_819MHz_RB_25_0_NTNV



Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV



Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

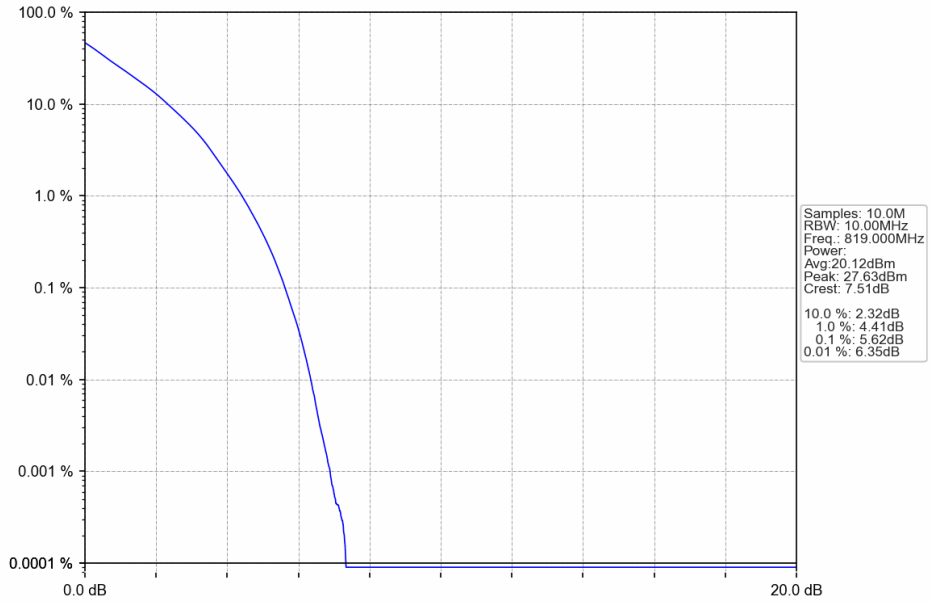
4.1.1 B26a_10MHz

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	50	0	5.62	<=13	Pass
16QAM	819	50	0	6.43	<=13	Pass

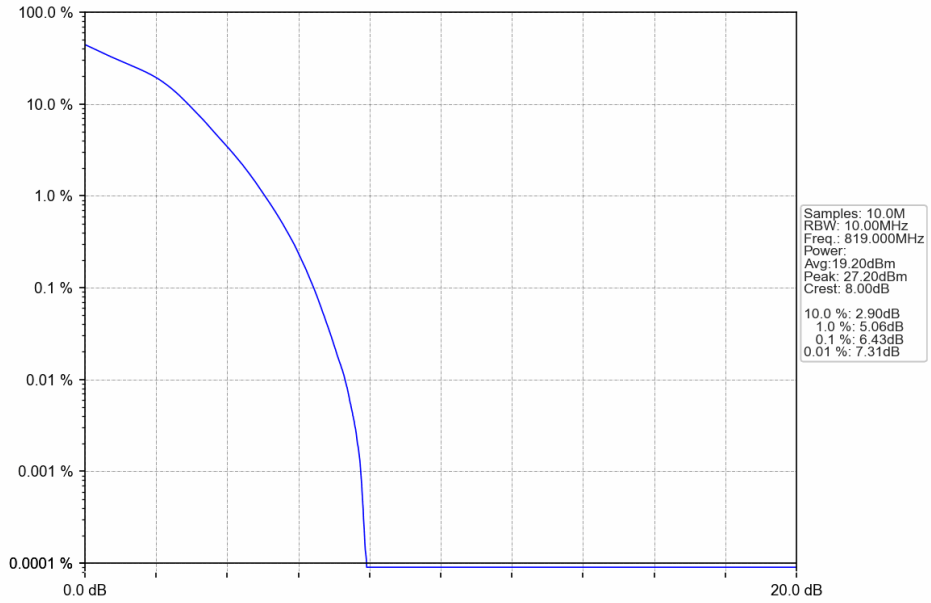
4.2 Test Graph

4.2.1 B26a_10MHz

Band26a_10MHz_QPSK_MCH_819MHz_RB_50_0_NTNV



Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B26a_1.4MHz

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	823.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B26a_3MHz

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	822.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B26a_5MHz

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	819	1	0	Refer To Test Graph		Pass
	821.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

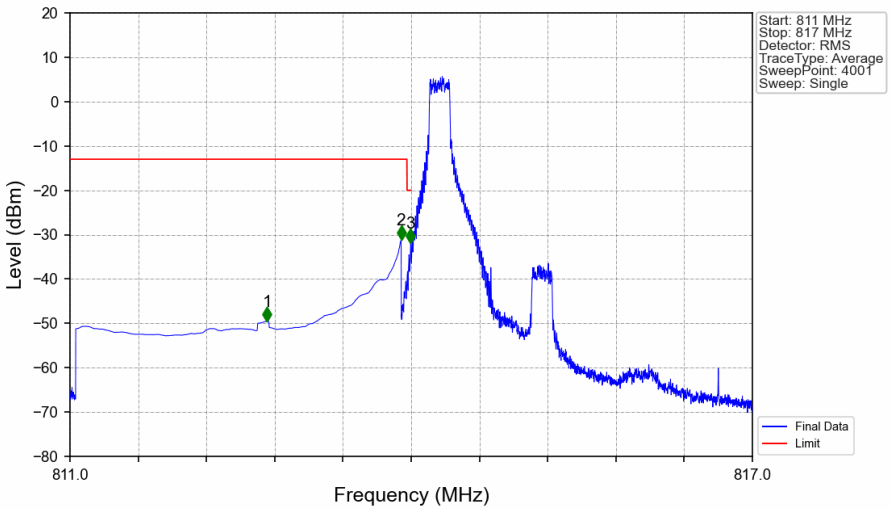
5.1.4 B26a_10MHz

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	819	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	819	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

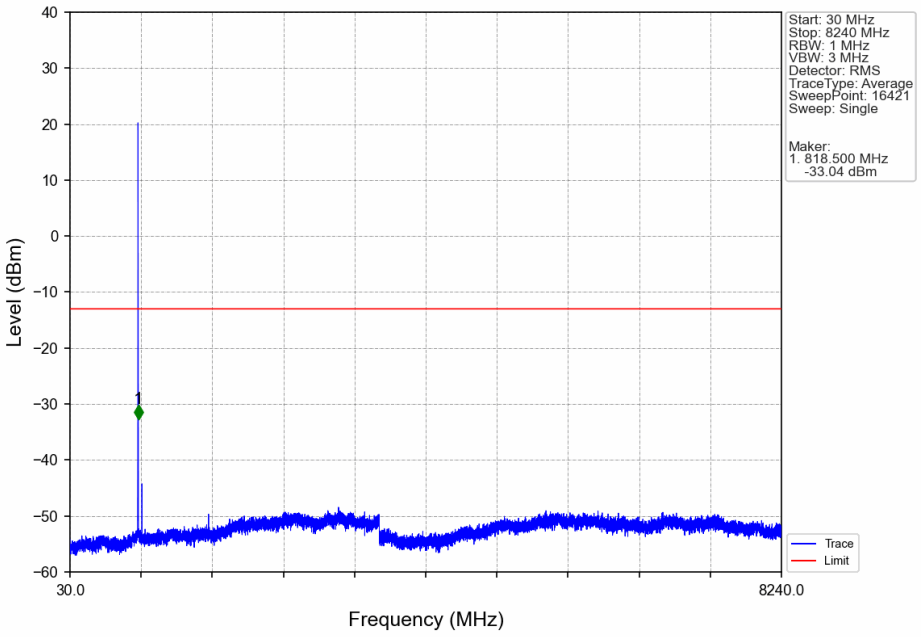
5.2.1 B26a_1.4MHz

Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_1_0_NTNV

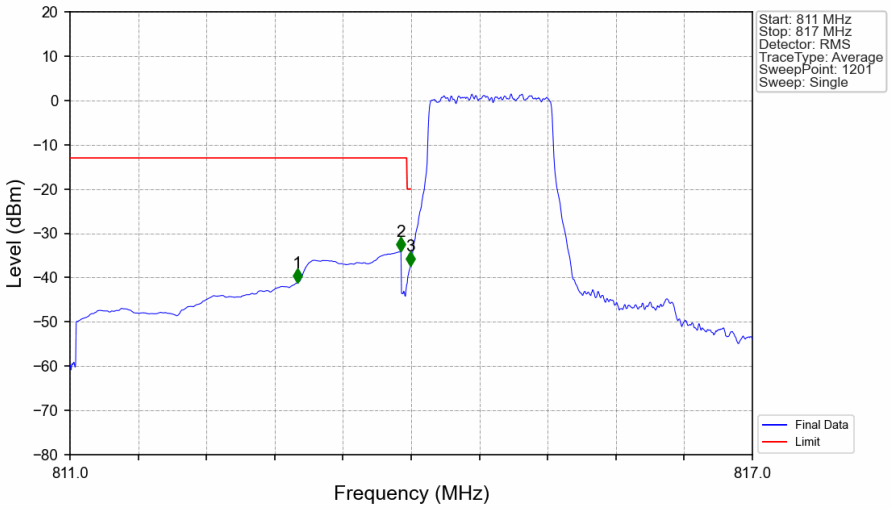


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.732	-49.52	-13	Pass
813	813.963	0.1	CHP	2	813.912	-31.12	-13	Pass
813.963	814	0.003	/	3	813.995	-31.91	-20	Pass
814	817	0.003	/	/	/	/	/	/

Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_1_0_NTNV

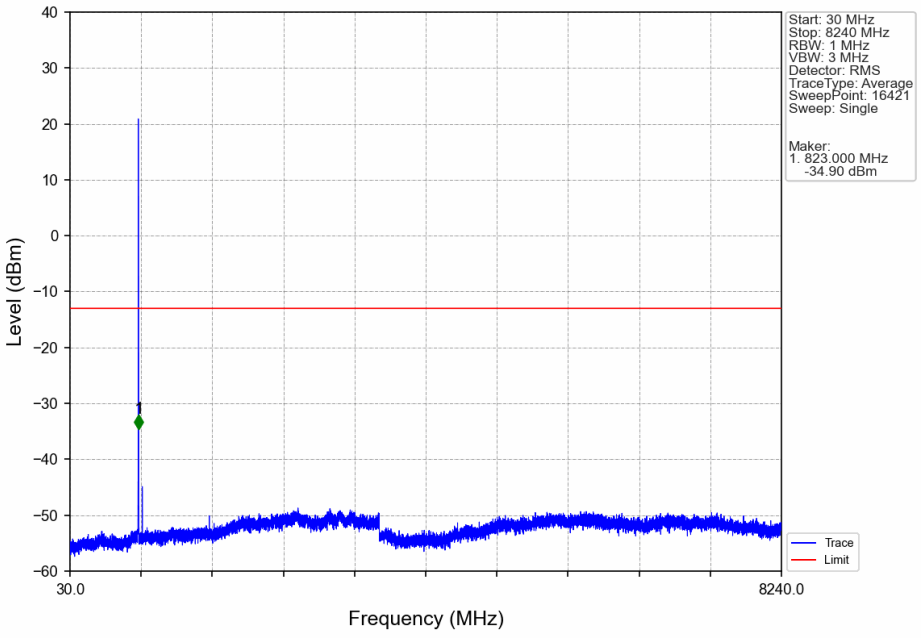


Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_6_0_NTNV

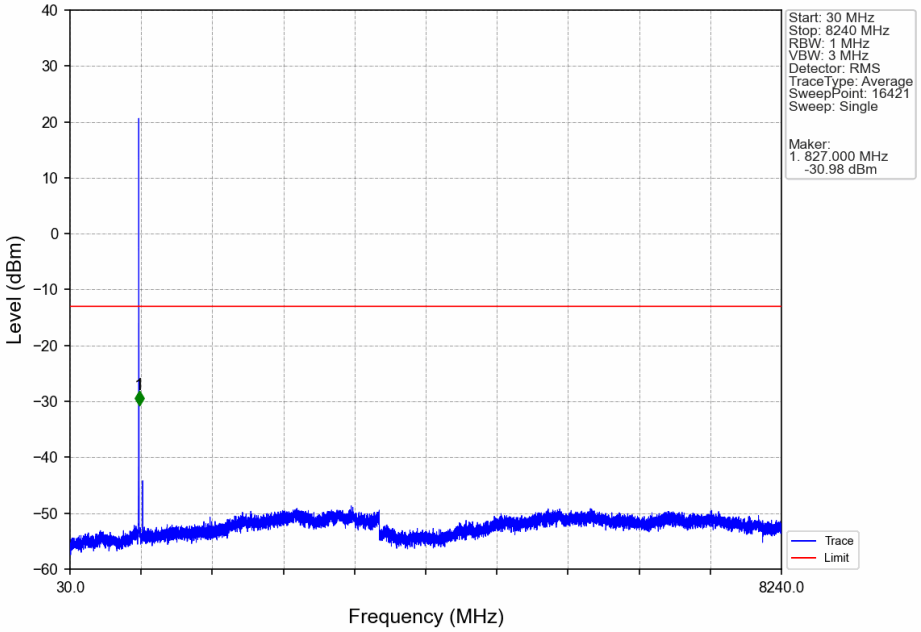


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	813.000	-41.11	-13	Pass
813	813.963	0.1	CHP	2	813.910	-34.02	-13	Pass
813.963	814	0.013	CHP	3	813.995	-37.34	-20	Pass
814	817	0.013	CHP	/	/	/	/	/

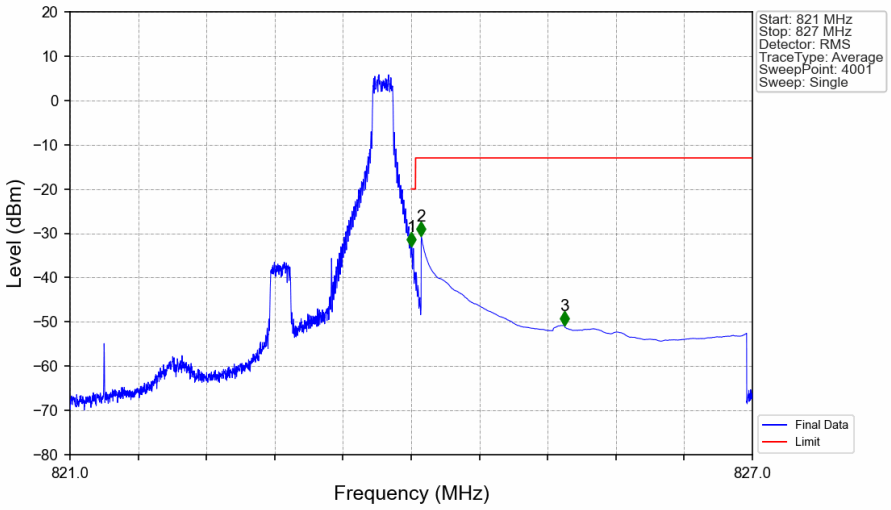
Band26a_1.4MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_1_0_NTNV

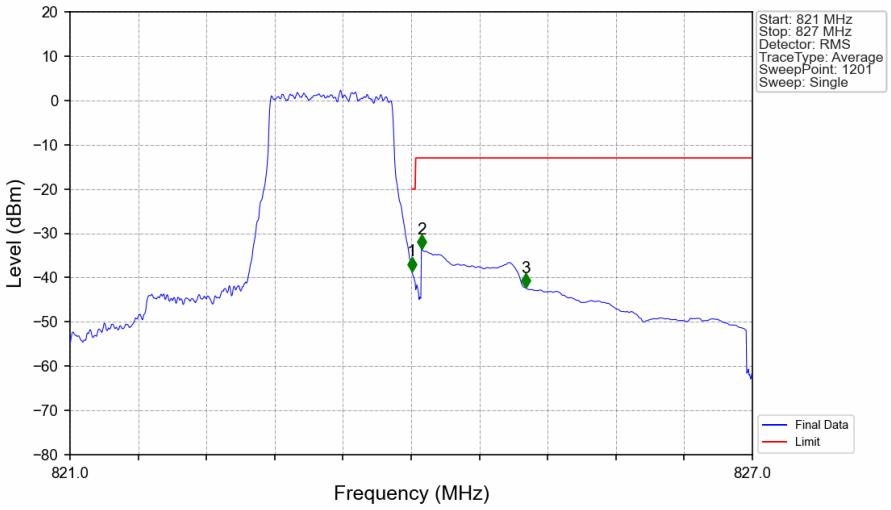


Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.003	-32.89	-20	Pass
824.038	825	0.1	CHP	2	824.088	-30.60	-13	Pass
825	827	0.1	CHP	3	825.346	-50.80	-13	Pass

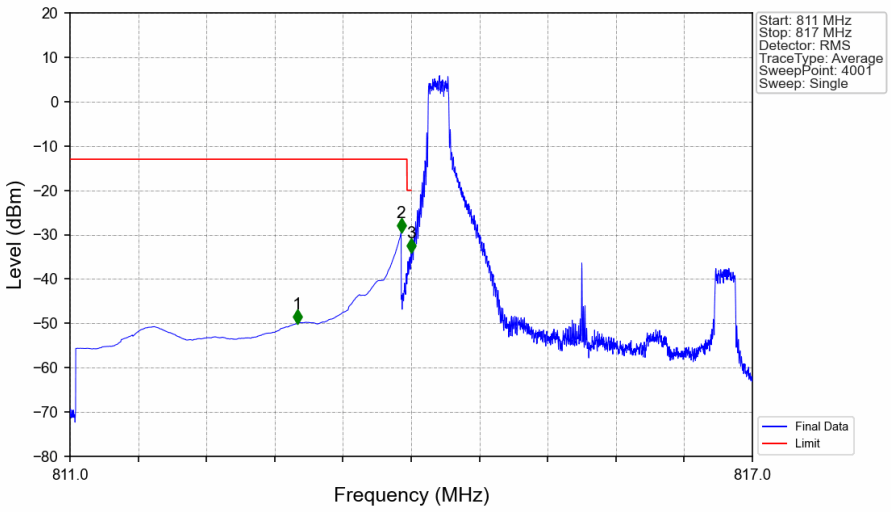
Band26a_1.4MHz_QPSK_HCH_823.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.013	CHP	/	/	/	/	/
824	824.038	0.013	CHP	1	824.005	-38.51	-20	Pass
824.038	825	0.1	CHP	2	824.090	-33.58	-13	Pass
825	827	0.1	CHP	3	825.005	-42.30	-13	Pass

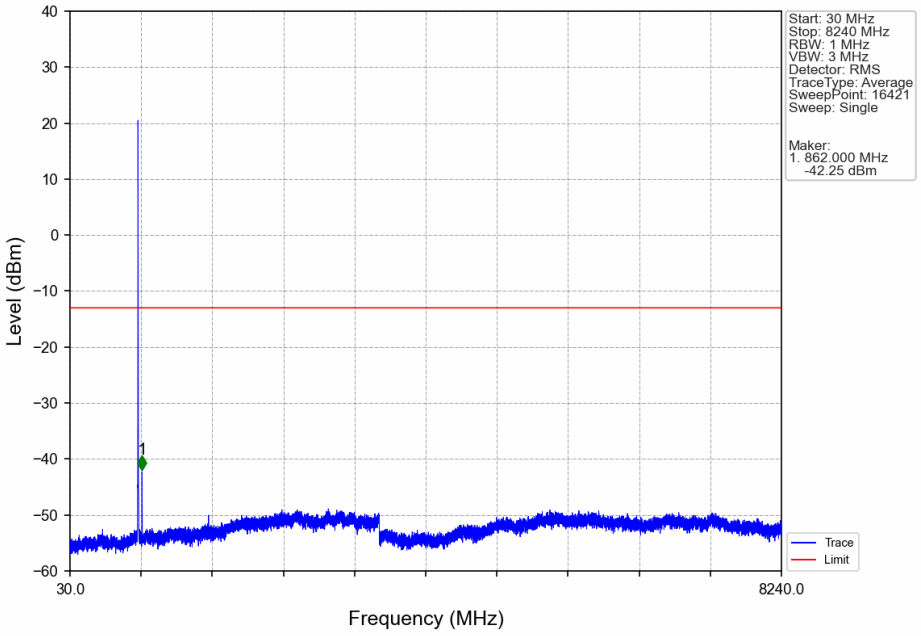
5.2.2 B26a_3MHz

Band26a_3MHz_QPSK_LCH_815.5MHz_RB_1_0_NTNV

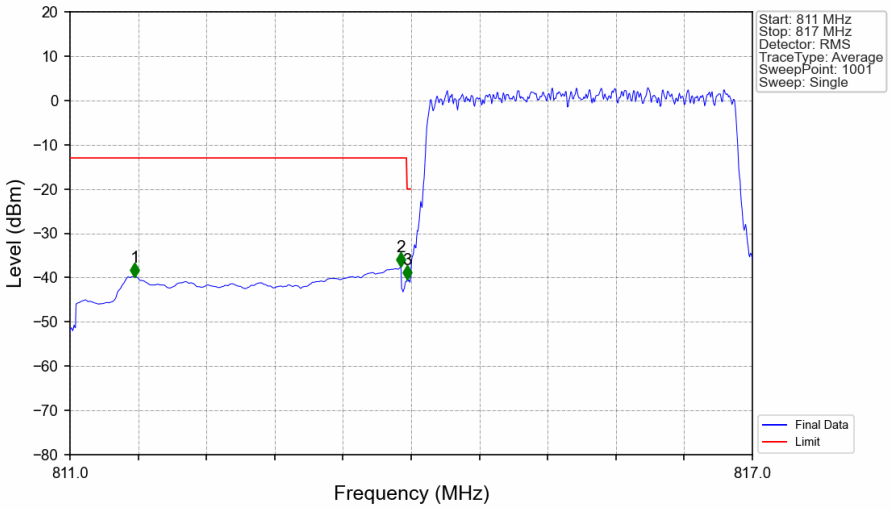


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	813.000	-50.06	-13	Pass
813	813.963	0.1	CHP	2	813.912	-29.43	-13	Pass
813.963	814	0.003	/	3	813.999	-34.02	-20	Pass
814	817	0.003	/	/	/	/	/	/

Band26a_3MHz_QPSK_LCH_815.5MHz_RB_1_0_NTNV

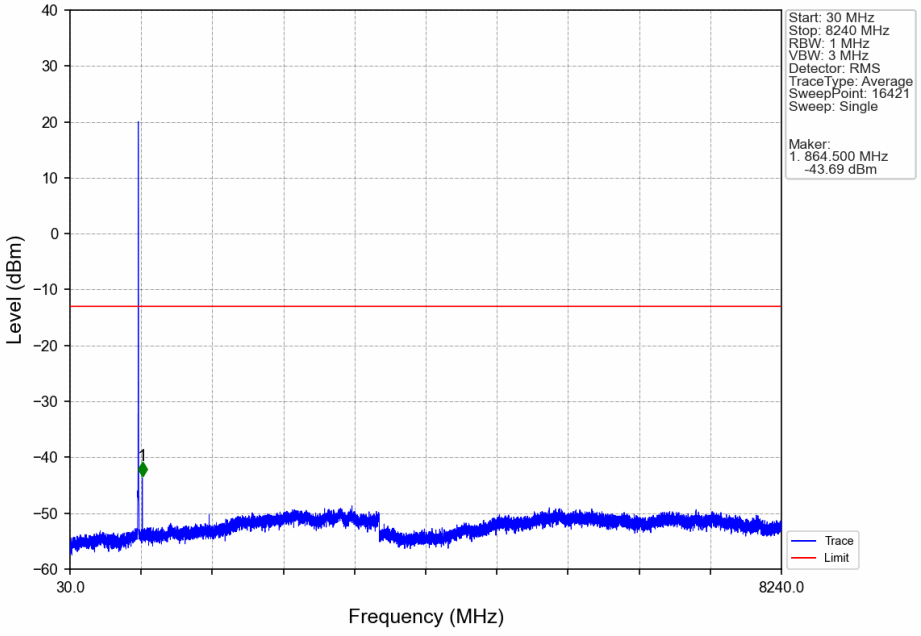


Band26a_3MHz_QPSK_LCH_815.5MHz_RB_15_0_NTNV

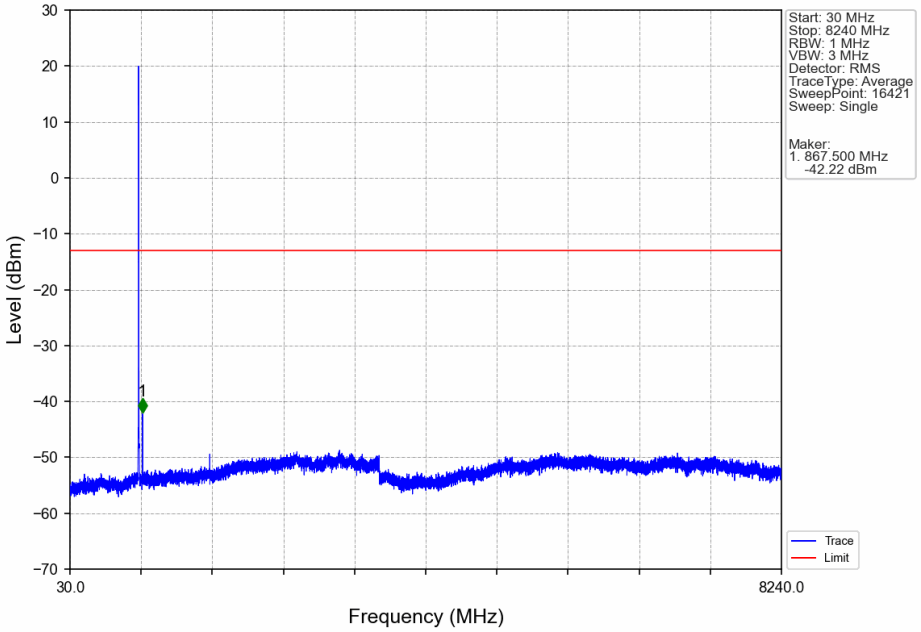


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	811.570	-39.81	-13	Pass
813	813.963	0.1	CHP	2	813.910	-37.55	-13	Pass
813.963	814	0.03	/	3	813.964	-40.36	-20	Pass
814	817	0.03	/	/	/	/	/	/

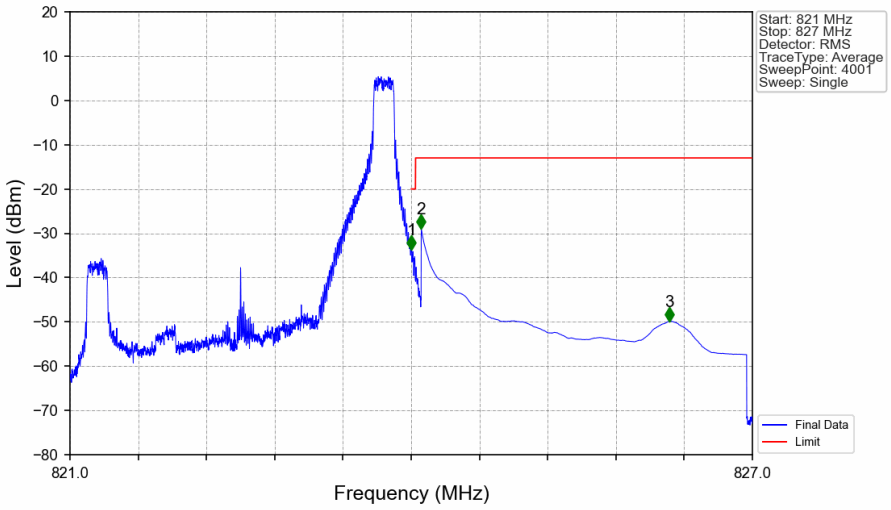
Band26a_3MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_0_NTNV

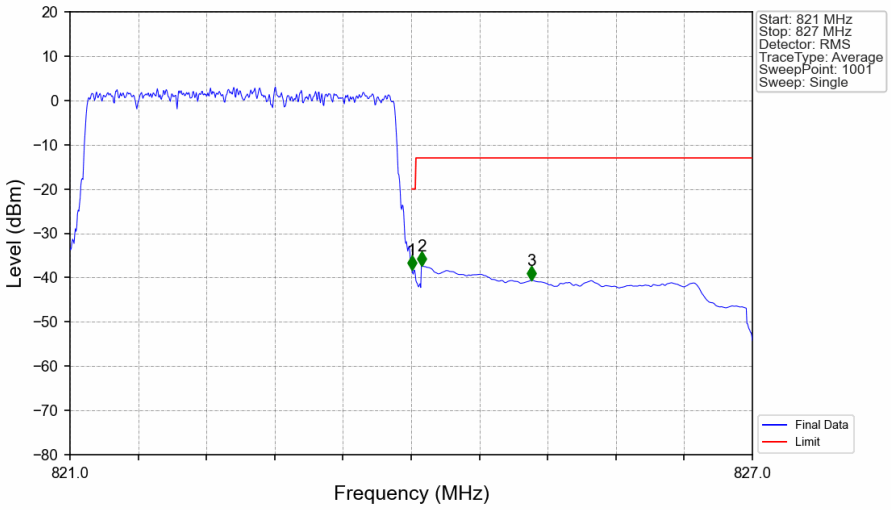


Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.003	-33.73	-20	Pass
824.038	825	0.1	CHP	2	824.088	-29.02	-13	Pass
825	827	0.1	CHP	3	826.273	-49.81	-13	Pass

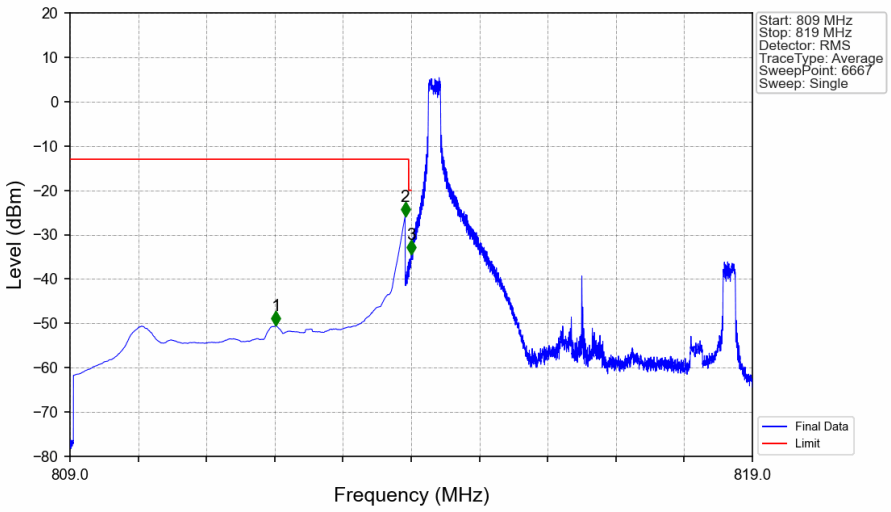
Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.03	/	/	/	/	/	/
824	824.038	0.03	/	1	824.006	-38.26	-20	Pass
824.038	825	0.1	CHP	2	824.090	-37.32	-13	Pass
825	827	0.1	CHP	3	825.056	-40.59	-13	Pass

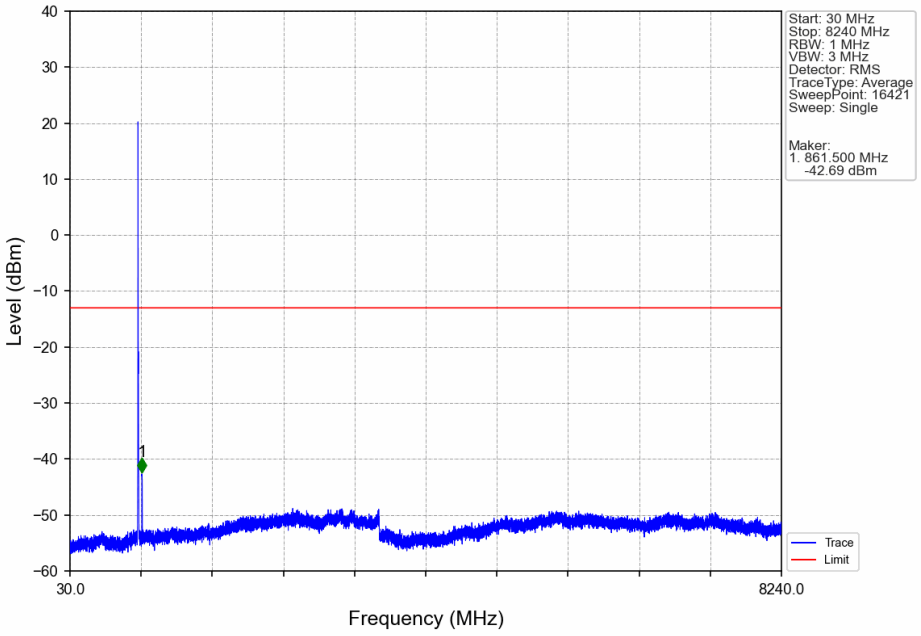
5.2.3 B26a_5MHz

Band26a_5MHz_QPSK_LCH_816.5MHz_RB_1_0_NTNV

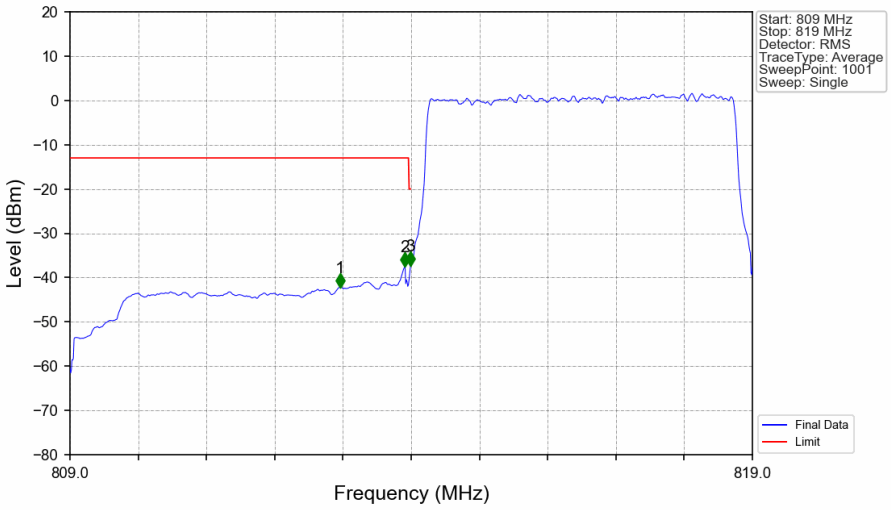


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.017	-50.48	-13	Pass
813	813.963	0.1	CHP	2	813.911	-25.78	-13	Pass
813.963	814	0.003	/	3	813.997	-34.49	-20	Pass
814	819	0.003	/	/	/	/	/	/

Band26a_5MHz_QPSK_LCH_816.5MHz_RB_1_0_NTNV

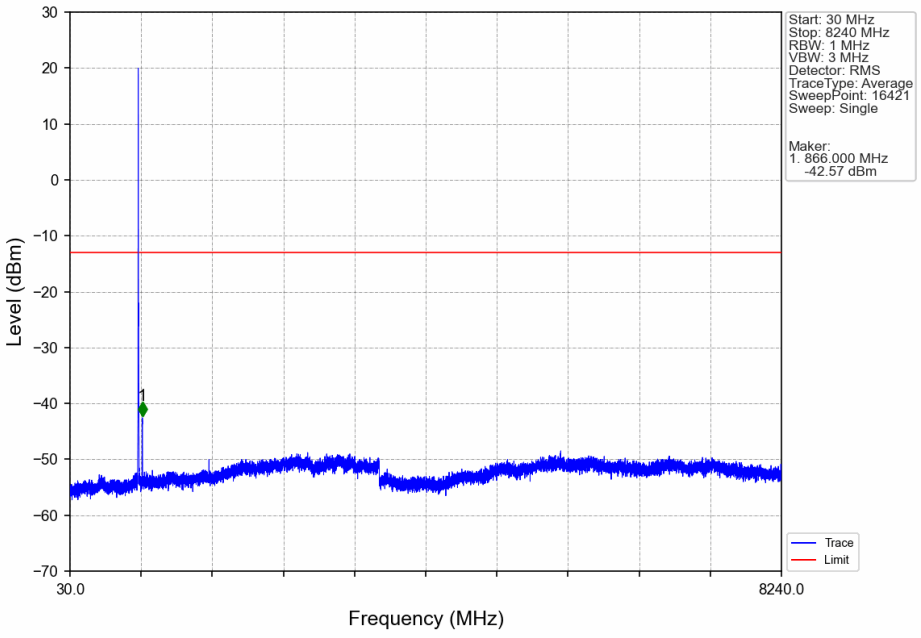


Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV

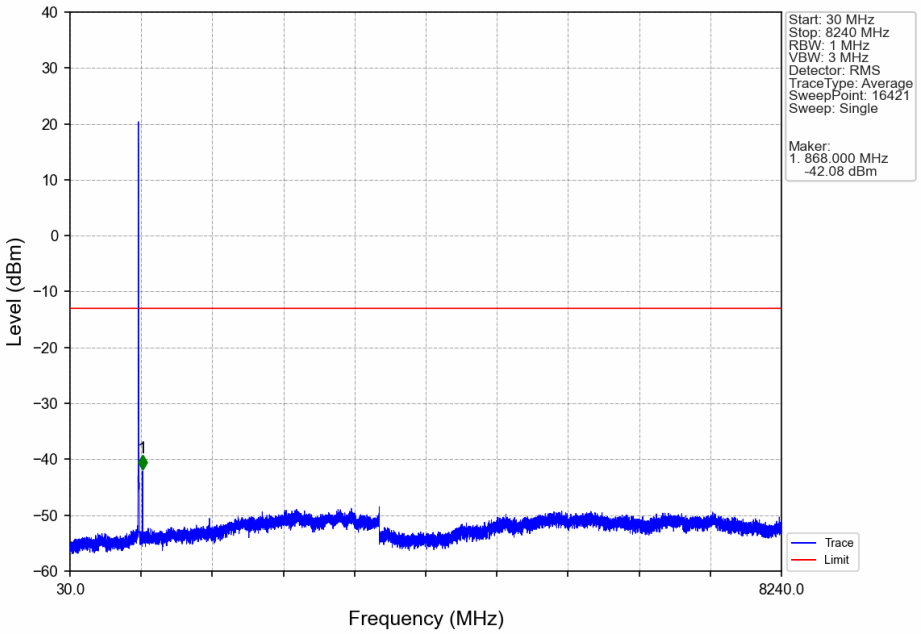


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.960	-42.16	-13	Pass
813	813.963	0.1	CHP	2	813.910	-37.47	-13	Pass
813.963	814	0.05	CHP	3	813.990	-37.32	-20	Pass
814	819	0.05	CHP	/	/	/	/	/

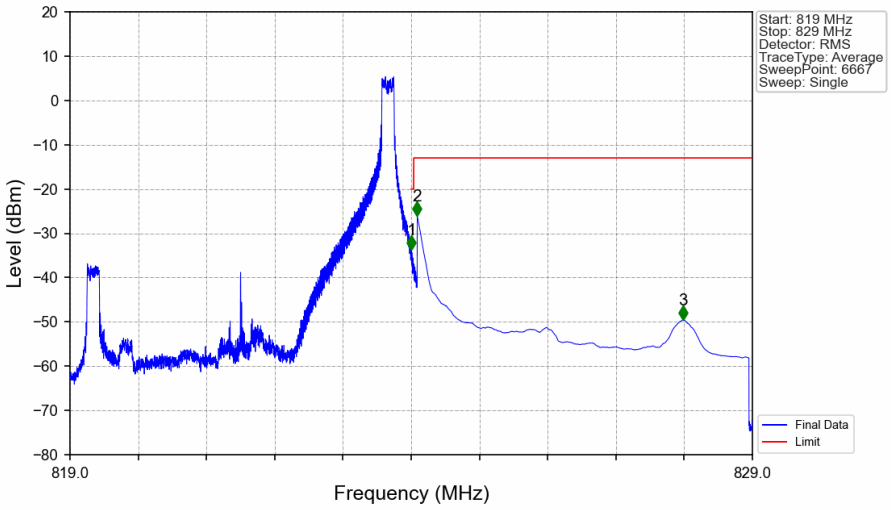
Band26a_5MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_0_NTNV

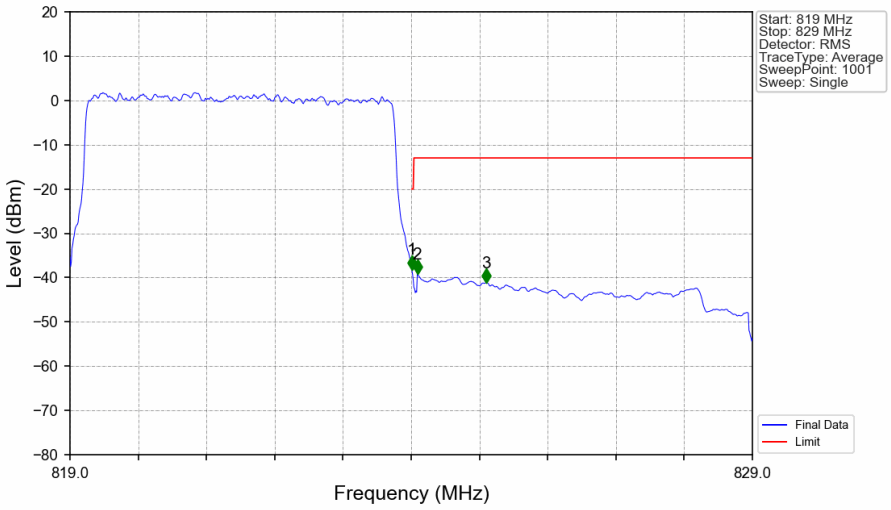


Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.001	-33.64	-20	Pass
824.038	825	0.1	CHP	2	824.089	-26.02	-13	Pass
825	829	0.1	CHP	3	827.986	-49.55	-13	Pass

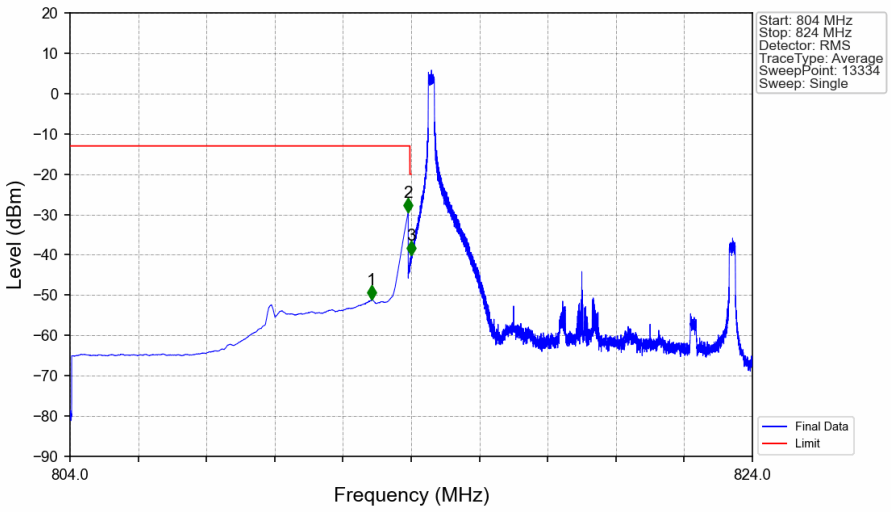
Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.05	CHP	/	/	/	/	/
824	824.038	0.05	CHP	1	824.010	-38.14	-20	Pass
824.038	825	0.1	CHP	2	824.090	-39.16	-13	Pass
825	829	0.1	CHP	3	825.100	-41.15	-13	Pass

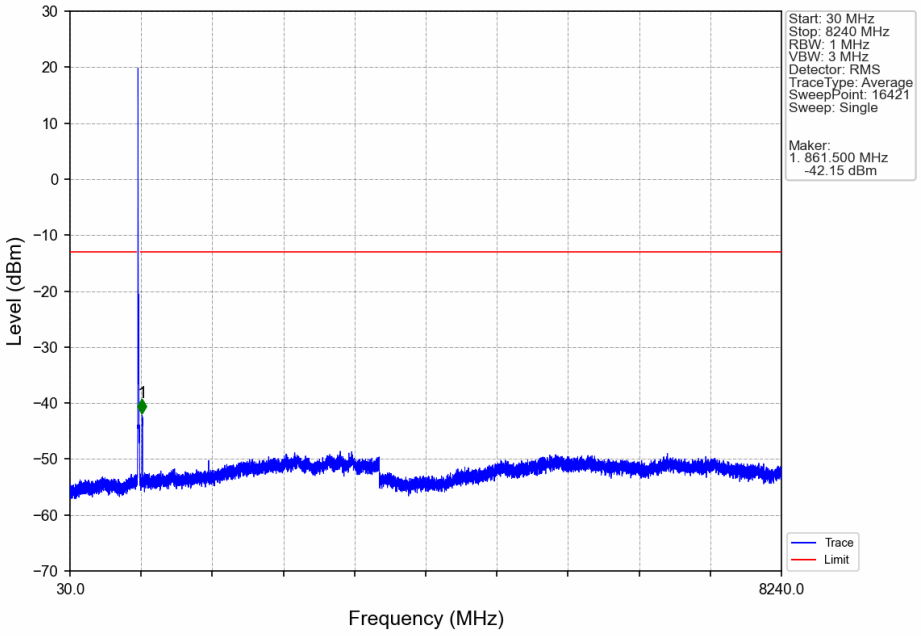
5.2.4 B26a_10MHz

Band26a_10MHz_QPSK_LCH_819MHz_RB_1_0_NTNV

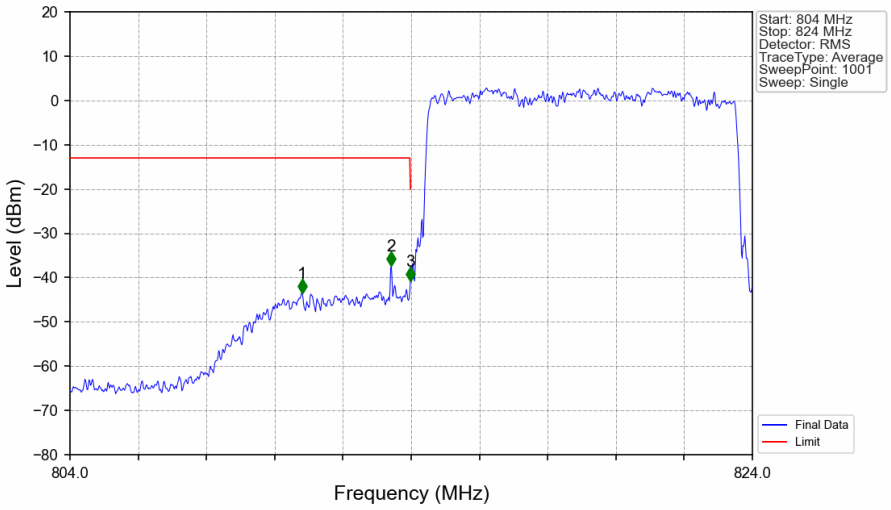


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	813	0.1	CHP	1	812.843	-51.15	-13	Pass
813	813.963	0.1	CHP	2	813.912	-29.48	-13	Pass
813.963	814	0.003	/	3	813.998	-39.97	-20	Pass
814	824	0.003	/	/	/	/	/	/

Band26a_10MHz_QPSK_LCH_819MHz_RB_1_0_NTNV

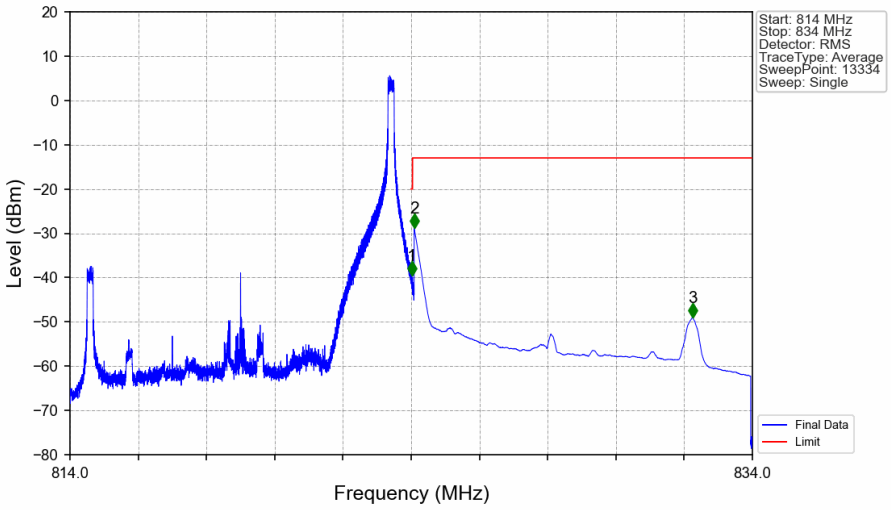


Band26a_10MHz_QPSK_LCH_819MHz_RB_50_0_NTNV



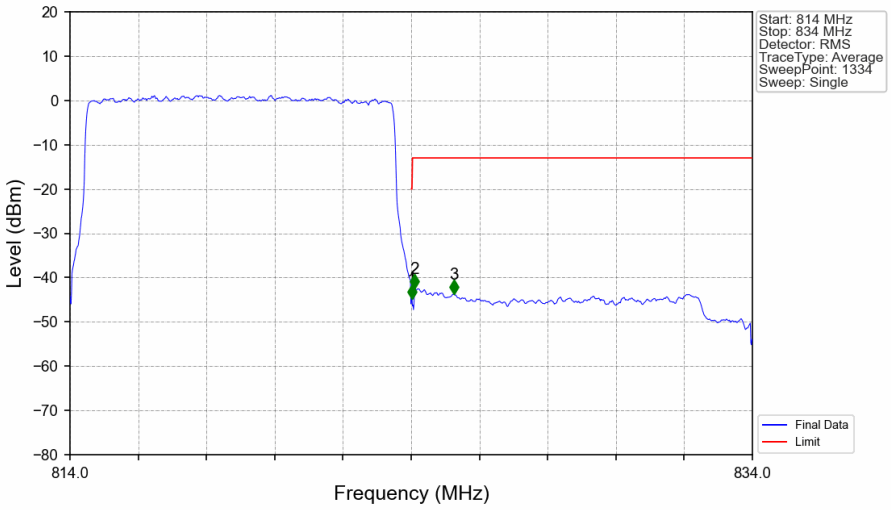
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	813	0.1	/	1	810.800	-43.48	-13	Pass
813	813.963	0.1	/	2	813.420	-37.39	-13	Pass
813.963	814	0.1	/	3	813.980	-40.70	-20	Pass
814	824	0.1	/	/	/	/	/	/

Band26a_10MHz_QPSK_HCH_819MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.003	/	/	/	/	/	/
824	824.038	0.003	/	1	824.014	-39.44	-20	Pass
824.038	825	0.1	CHP	2	824.088	-28.81	-13	Pass
825	834	0.1	CHP	3	832.242	-49.01	-13	Pass

Band26a_10MHz_QPSK_HCH_819MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.099	CHP	/	/	/	/	/
824	824.038	0.099	CHP	1	824.023	-44.71	-20	Pass
824.038	825	0.1	CHP	2	824.098	-42.42	-13	Pass
825	834	0.1	CHP	3	825.253	-43.71	-13	Pass

-The End-