

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2572.5	1	0	22.07	3.00	25.07	<=33.01	Pass
			13	21.73	3.00	24.73	<=33.01	Pass
			24	21.76	3.00	24.76	<=33.01	Pass
		12	0	20.90	3.00	23.90	<=33.01	Pass
			6	21.03	3.00	24.03	<=33.01	Pass
			13	20.91	3.00	23.91	<=33.01	Pass
		25	0	20.81	3.00	23.81	<=33.01	Pass
	2595	1	0	21.44	3.00	24.44	<=33.01	Pass
			13	21.76	3.00	24.76	<=33.01	Pass
			24	21.71	3.00	24.71	<=33.01	Pass
		12	0	20.87	3.00	23.87	<=33.01	Pass
			6	20.71	3.00	23.71	<=33.01	Pass
			13	20.69	3.00	23.69	<=33.01	Pass
		25	0	20.80	3.00	23.80	<=33.01	Pass
	2617.5	1	0	22.28	3.00	25.28	<=33.01	Pass
			13	21.81	3.00	24.81	<=33.01	Pass
			24	21.87	3.00	24.87	<=33.01	Pass
		12	0	20.99	3.00	23.99	<=33.01	Pass
			6	21.01	3.00	24.01	<=33.01	Pass
			13	20.95	3.00	23.95	<=33.01	Pass
		25	0	20.92	3.00	23.92	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2575	1	0	22.17	3.00	25.17	<=33.01	Pass
			25	21.28	3.00	24.28	<=33.01	Pass
			49	21.59	3.00	24.59	<=33.01	Pass
		25	0	20.85	3.00	23.85	<=33.01	Pass
			13	20.79	3.00	23.79	<=33.01	Pass
			25	20.81	3.00	23.81	<=33.01	Pass
		50	0	20.82	3.00	23.82	<=33.01	Pass
	2595	1	0	21.36	3.00	24.36	<=33.01	Pass
			25	22.07	3.00	25.07	<=33.01	Pass
			49	21.45	3.00	24.45	<=33.01	Pass
		25	0	20.76	3.00	23.76	<=33.01	Pass
			13	20.74	3.00	23.74	<=33.01	Pass
			25	20.77	3.00	23.77	<=33.01	Pass
		50	0	20.78	3.00	23.78	<=33.01	Pass
	2615	1	0	21.93	3.00	24.93	<=33.01	Pass
			25	21.65	3.00	24.65	<=33.01	Pass
			49	21.60	3.00	24.60	<=33.01	Pass

		25	0	20.88	3.00	23.88	<=33.01	Pass
			13	20.94	3.00	23.94	<=33.01	Pass
			25	20.85	3.00	23.85	<=33.01	Pass
		50	0	20.96	3.00	23.96	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2577.5	1	0	22.21	3.00	25.21	<=33.01	Pass
			38	22.10	3.00	25.10	<=33.01	Pass
			74	21.28	3.00	24.28	<=33.01	Pass
		36	0	20.89	3.00	23.89	<=33.01	Pass
			18	20.95	3.00	23.95	<=33.01	Pass
			39	20.79	3.00	23.79	<=33.01	Pass
		75	0	20.90	3.00	23.90	<=33.01	Pass
	2595	1	0	21.51	3.00	24.51	<=33.01	Pass
			38	21.39	3.00	24.39	<=33.01	Pass
			74	22.08	3.00	25.08	<=33.01	Pass
		36	0	20.77	3.00	23.77	<=33.01	Pass
			18	20.85	3.00	23.85	<=33.01	Pass
			39	20.82	3.00	23.82	<=33.01	Pass
		75	0	20.84	3.00	23.84	<=33.01	Pass
	2612.5	1	0	21.79	3.00	24.79	<=33.01	Pass
			38	22.01	3.00	25.01	<=33.01	Pass
			74	22.08	3.00	25.08	<=33.01	Pass
		36	0	20.95	3.00	23.95	<=33.01	Pass
			18	20.98	3.00	23.98	<=33.01	Pass
			39	20.97	3.00	23.97	<=33.01	Pass
		75	0	20.97	3.00	23.97	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2580	1	0	21.91	3.00	24.91	<=33.01	Pass
			50	21.58	3.00	24.58	<=33.01	Pass
			99	21.90	3.00	24.90	<=33.01	Pass
		50	0	20.89	3.00	23.89	<=33.01	Pass
			25	20.80	3.00	23.80	<=33.01	Pass
			50	20.82	3.00	23.82	<=33.01	Pass
		100	0	20.78	3.00	23.78	<=33.01	Pass
	2595	1	0	21.45	3.00	24.45	<=33.01	Pass
			50	21.85	3.00	24.85	<=33.01	Pass
			99	21.71	3.00	24.71	<=33.01	Pass
		50	0	20.82	3.00	23.82	<=33.01	Pass
			25	20.82	3.00	23.82	<=33.01	Pass
			50	20.89	3.00	23.89	<=33.01	Pass
		100	0	20.85	3.00	23.85	<=33.01	Pass

	2610	1	0	21.83	3.00	24.83	<=33.01	Pass
			50	21.69	3.00	24.69	<=33.01	Pass
			99	21.96	3.00	24.96	<=33.01	Pass
		50	0	20.93	3.00	23.93	<=33.01	Pass
			25	21.02	3.00	24.02	<=33.01	Pass
			50	20.96	3.00	23.96	<=33.01	Pass
		100	0	20.97	3.00	23.97	<=33.01	Pass
		Note1: EIRP=Conducted Power+Antenna Gain						

2. Frequency Stability

2.1 Test Result

2.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2572.5	25	0	20	3.27	3.705	0.0014	-2.5 to 2.5	Pass
					3.85	0.014	0.0000	-2.5 to 2.5	Pass
					4.43	9.413	0.0037	-2.5 to 2.5	Pass
				-30	3.85	0.515	0.0002	-2.5 to 2.5	Pass
				-20	3.85	5.651	0.0022	-2.5 to 2.5	Pass
				-10	3.85	3.233	0.0013	-2.5 to 2.5	Pass
				0	3.85	4.334	0.0017	-2.5 to 2.5	Pass
				10	3.85	10.672	0.0041	-2.5 to 2.5	Pass
				30	3.85	6.022	0.0023	-2.5 to 2.5	Pass
				40	3.85	-3.533	-0.0014	-2.5 to 2.5	Pass
				50	3.85	5.250	0.0020	-2.5 to 2.5	Pass
	2595	25	0	20	3.27	1.688	0.0007	-2.5 to 2.5	Pass
					3.85	-0.515	-0.0002	-2.5 to 2.5	Pass
					4.43	1.116	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.587	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.173	0.0005	-2.5 to 2.5	Pass
				0	3.85	-1.245	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-4.621	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-9.170	-0.0035	-2.5 to 2.5	Pass
				40	3.85	1.574	0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
	2617.5	25	0	20	3.27	1.531	0.0006	-2.5 to 2.5	Pass
					3.85	-0.372	-0.0001	-2.5 to 2.5	Pass
					4.43	-5.908	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-4.163	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	3.147	0.0012	-2.5 to 2.5	Pass
				0	3.85	5.035	0.0019	-2.5 to 2.5	Pass
				10	3.85	-3.777	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-3.591	-0.0014	-2.5 to 2.5	Pass
				40	3.85	4.663	0.0018	-2.5 to 2.5	Pass
				50	3.85	-0.687	-0.0003	-2.5 to 2.5	Pass

2.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2575	50	0	20	3.27	2.575	0.0010	-2.5 to 2.5	Pass
					3.85	7.067	0.0027	-2.5 to 2.5	Pass
					4.43	11.816	0.0046	-2.5 to 2.5	Pass
				-30	3.85	3.304	0.0013	-2.5 to 2.5	Pass
				-20	3.85	10.915	0.0042	-2.5 to 2.5	Pass
				-10	3.85	0.944	0.0004	-2.5 to 2.5	Pass
				0	3.85	3.190	0.0012	-2.5 to 2.5	Pass
				10	3.85	9.484	0.0037	-2.5 to 2.5	Pass
				30	3.85	0.114	0.0000	-2.5 to 2.5	Pass
				40	3.85	0.930	0.0004	-2.5 to 2.5	Pass
				50	3.85	1.945	0.0008	-2.5 to 2.5	Pass
	2595	50	0	20	3.27	0.572	0.0002	-2.5 to 2.5	Pass
					3.85	-2.503	-0.0010	-2.5 to 2.5	Pass
					4.43	0.486	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-6.895	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	0.916	0.0004	-2.5 to 2.5	Pass
				-10	3.85	1.073	0.0004	-2.5 to 2.5	Pass
				0	3.85	2.217	0.0009	-2.5 to 2.5	Pass
				10	3.85	-5.550	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-0.286	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.760	-0.0007	-2.5 to 2.5	Pass
				50	3.85	3.090	0.0012	-2.5 to 2.5	Pass
	2615	50	0	20	3.27	-11.444	-0.0044	-2.5 to 2.5	Pass
					3.85	-4.449	-0.0017	-2.5 to 2.5	Pass
					4.43	-15.693	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-4.306	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-8.869	-0.0034	-2.5 to 2.5	Pass
				-10	3.85	-6.466	-0.0025	-2.5 to 2.5	Pass
				0	3.85	-10.800	-0.0041	-2.5 to 2.5	Pass
				10	3.85	-4.621	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-8.855	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-5.236	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-6.967	-0.0027	-2.5 to 2.5	Pass

2.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2577.5	75	0	20	3.27	-8.998	-0.0035	-2.5 to 2.5	Pass
					3.85	-4.749	-0.0018	-2.5 to 2.5	Pass
					4.43	0.272	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-8.097	-0.0031	-2.5 to 2.5	Pass
				-20	3.85	-5.965	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-11.616	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-8.998	-0.0035	-2.5 to 2.5	Pass
				10	3.85	-9.899	-0.0038	-2.5 to 2.5	Pass
				30	3.85	-5.708	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-1.931	-0.0007	-2.5 to 2.5	Pass
				50	3.85	-5.422	-0.0021	-2.5 to 2.5	Pass

	2595	75	0	20	3.27	2.818	0.0011	-2.5 to 2.5	Pass
					3.85	4.148	0.0016	-2.5 to 2.5	Pass
					4.43	-3.834	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	6.194	0.0024	-2.5 to 2.5	Pass
				-20	3.85	-8.111	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	4.005	0.0015	-2.5 to 2.5	Pass
				0	3.85	0.114	0.0000	-2.5 to 2.5	Pass
				10	3.85	3.362	0.0013	-2.5 to 2.5	Pass
				30	3.85	2.375	0.0009	-2.5 to 2.5	Pass
				40	3.85	0.944	0.0004	-2.5 to 2.5	Pass
				50	3.85	-6.123	-0.0024	-2.5 to 2.5	Pass
	2612.5	75	0	20	3.27	8.125	0.0031	-2.5 to 2.5	Pass
					3.85	8.011	0.0031	-2.5 to 2.5	Pass
					4.43	6.480	0.0025	-2.5 to 2.5	Pass
				-30	3.85	7.839	0.0030	-2.5 to 2.5	Pass
				-20	3.85	6.523	0.0025	-2.5 to 2.5	Pass
				-10	3.85	0.286	0.0001	-2.5 to 2.5	Pass
				0	3.85	3.076	0.0012	-2.5 to 2.5	Pass
				10	3.85	8.168	0.0031	-2.5 to 2.5	Pass
				30	3.85	1.674	0.0006	-2.5 to 2.5	Pass
				40	3.85	3.934	0.0015	-2.5 to 2.5	Pass
				50	3.85	2.761	0.0011	-2.5 to 2.5	Pass

2.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2580	100	0	20	3.27	-3.047	-0.0012	-2.5 to 2.5	Pass
					3.85	-6.981	-0.0027	-2.5 to 2.5	Pass
					4.43	-0.129	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-5.121	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	2.947	0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				0	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				10	3.85	0.129	0.0001	-2.5 to 2.5	Pass
				30	3.85	3.805	0.0015	-2.5 to 2.5	Pass
				40	3.85	-5.107	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-6.666	-0.0026	-2.5 to 2.5	Pass
	2595	100	0	20	3.27	-2.260	-0.0009	-2.5 to 2.5	Pass
					3.85	2.017	0.0008	-2.5 to 2.5	Pass
					4.43	-1.044	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-3.705	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.704	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-0.730	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-2.732	-0.0011	-2.5 to 2.5	Pass
				10	3.85	-2.174	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-1.988	-0.0008	-2.5 to 2.5	Pass
				40	3.85	4.334	0.0017	-2.5 to 2.5	Pass
				50	3.85	-2.060	-0.0008	-2.5 to 2.5	Pass
	2610	100	0	20	3.27	-3.891	-0.0015	-2.5 to 2.5	Pass
					3.85	-1.903	-0.0007	-2.5 to 2.5	Pass
					4.43	0.916	0.0004	-2.5 to 2.5	Pass
				-30	3.85	2.203	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-1.917	-0.0007	-2.5 to 2.5	Pass

				-10	3.85	-1.960	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-3.891	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.116	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.358	0.0001	-2.5 to 2.5	Pass
				40	3.85	-2.003	-0.0008	-2.5 to 2.5	Pass
				50	3.85	0.572	0.0002	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

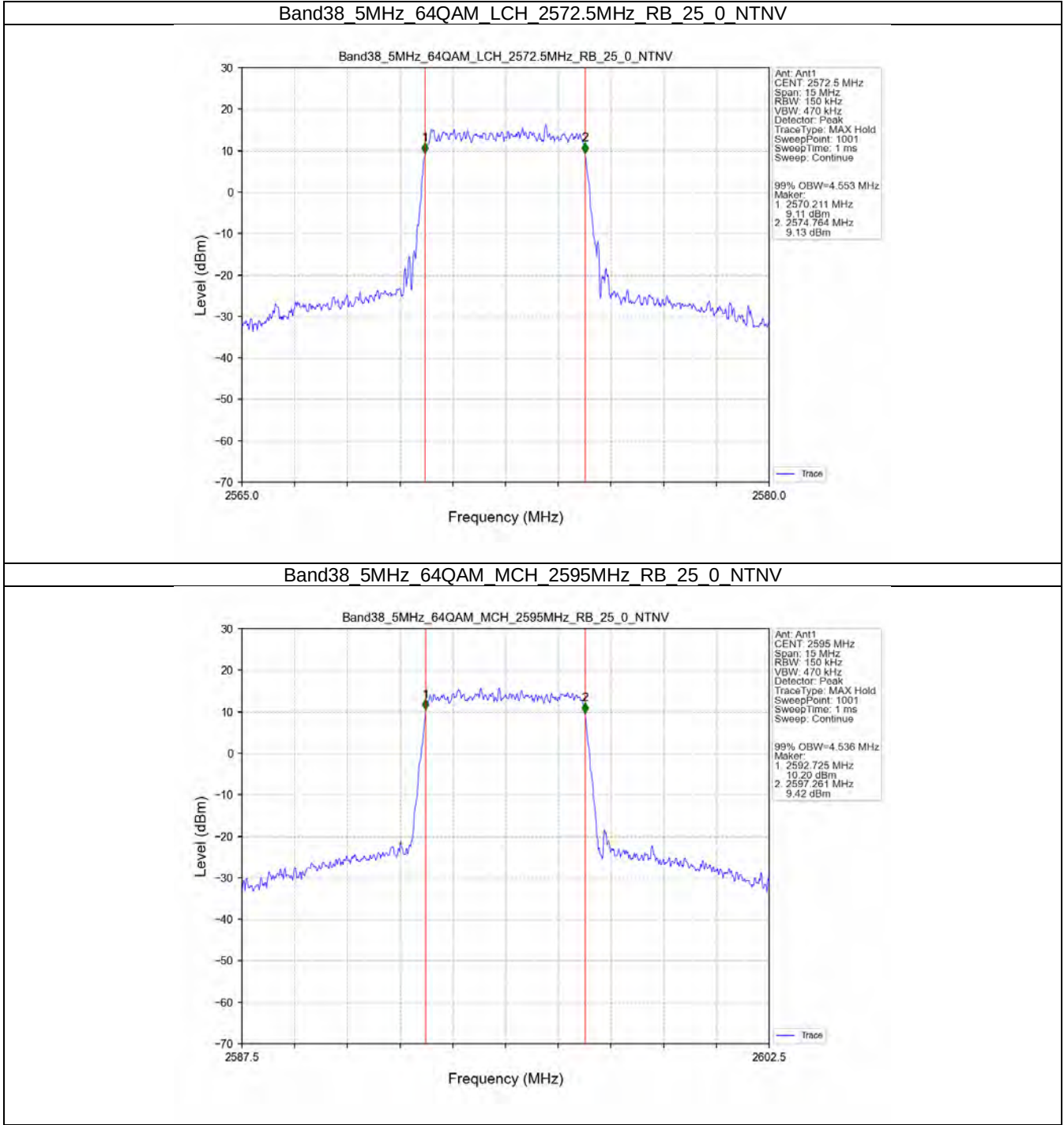
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	64QAM	2572.5	25	0	4.553	/	Pass
		2595	25	0	4.536	/	Pass
		2617.5	25	0	4.548	/	Pass
10	64QAM	2575	50	0	9.061	/	Pass
		2595	50	0	9.021	/	Pass
		2615	50	0	9.069	/	Pass
15	64QAM	2577.5	75	0	13.559	/	Pass
		2595	75	0	13.554	/	Pass
		2612.5	75	0	13.568	/	Pass
20	64QAM	2580	100	0	18.012	/	Pass
		2595	100	0	18.091	/	Pass
		2610	100	0	18.038	/	Pass

3.1.2 Band38_XDB

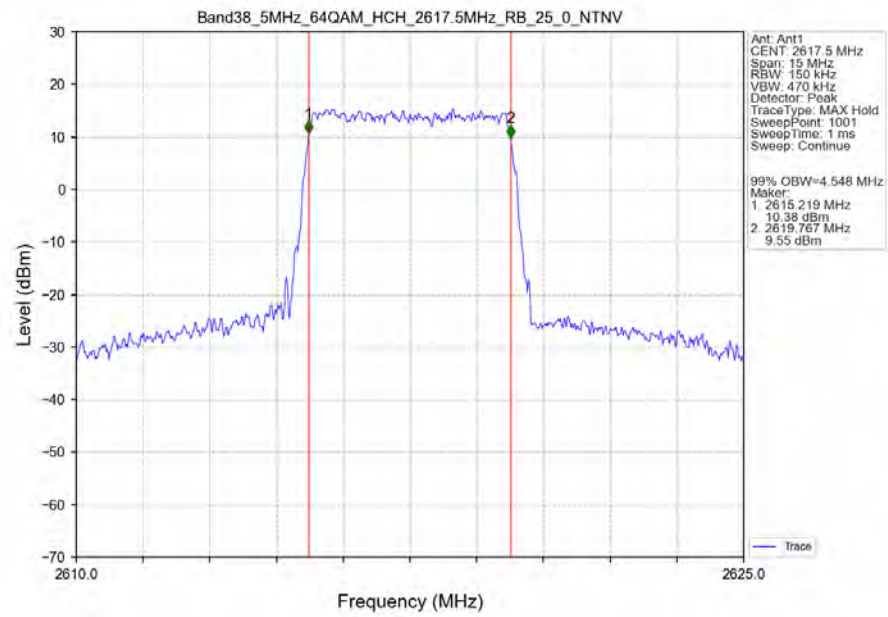
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	64QAM	2572.5	25	0	5.020	/	Pass
		2595	25	0	5.016	/	Pass
		2617.5	25	0	5.026	/	Pass
10	64QAM	2575	50	0	9.946	/	Pass
		2595	50	0	9.906	/	Pass
		2615	50	0	9.937	/	Pass
15	64QAM	2577.5	75	0	14.924	/	Pass
		2595	75	0	14.894	/	Pass
		2612.5	75	0	14.876	/	Pass
20	64QAM	2580	100	0	19.655	/	Pass
		2595	100	0	19.786	/	Pass
		2610	100	0	19.692	/	Pass

3.2 Test Graph

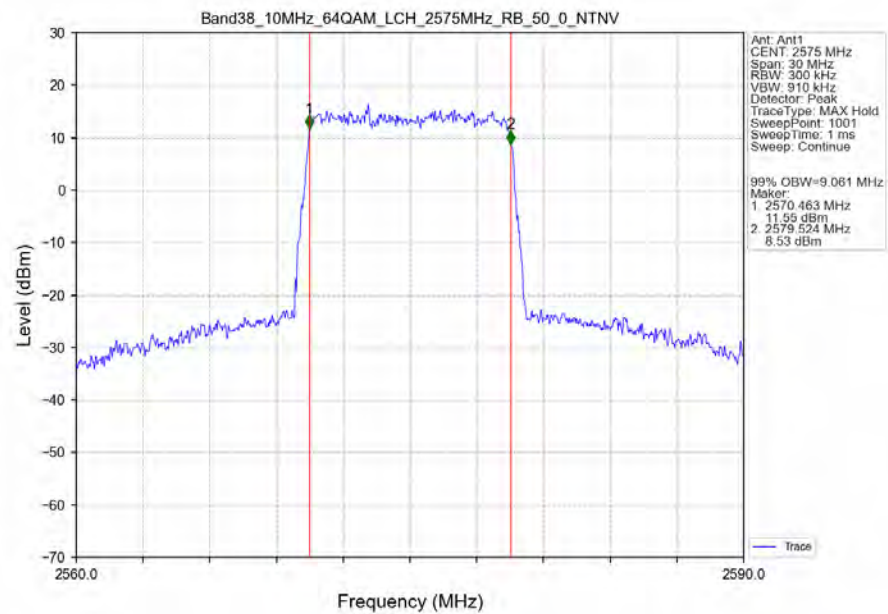
3.2.1 Band38_OBW



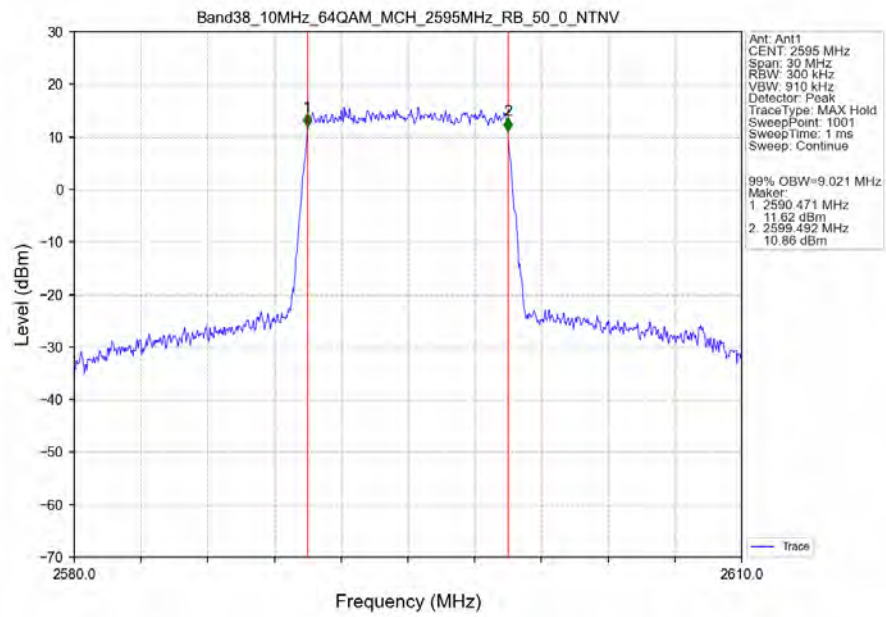
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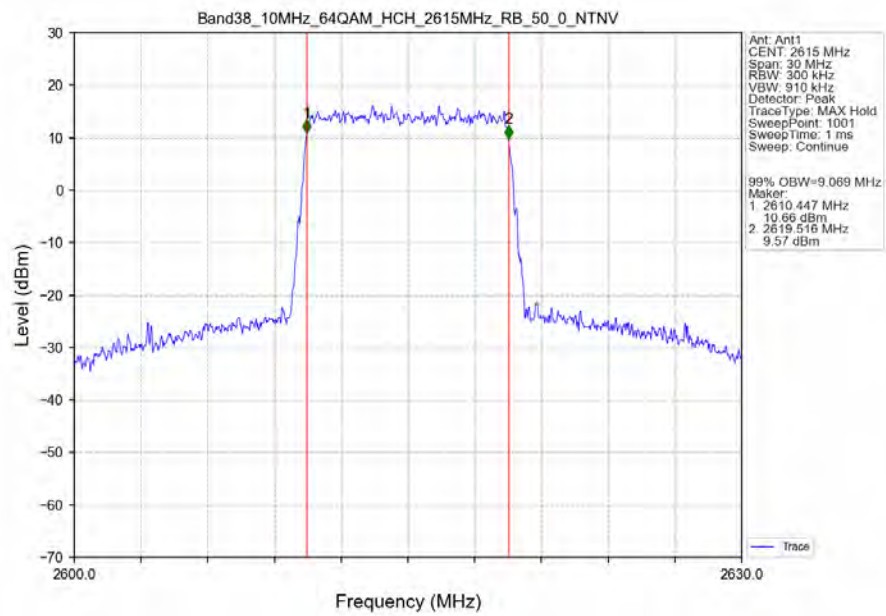
Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV



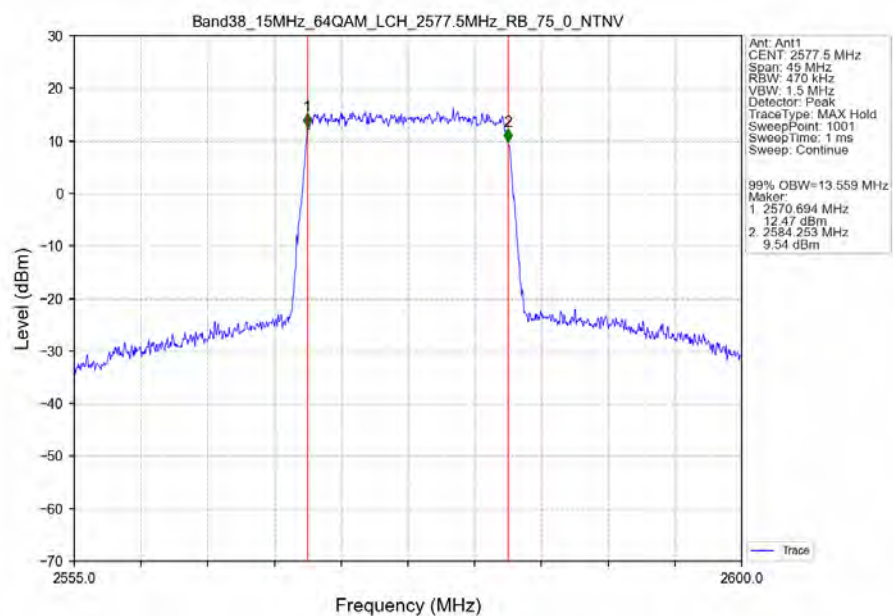
Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV



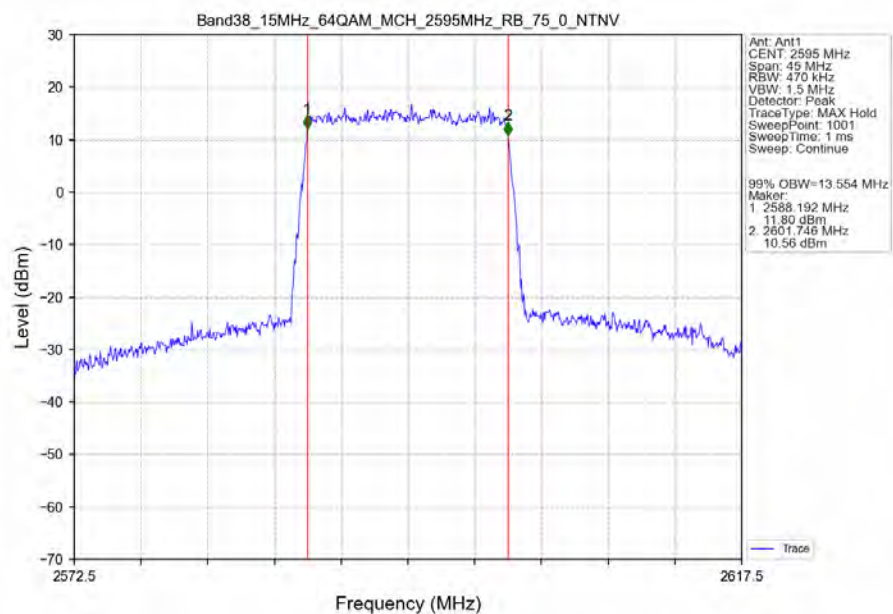
Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV



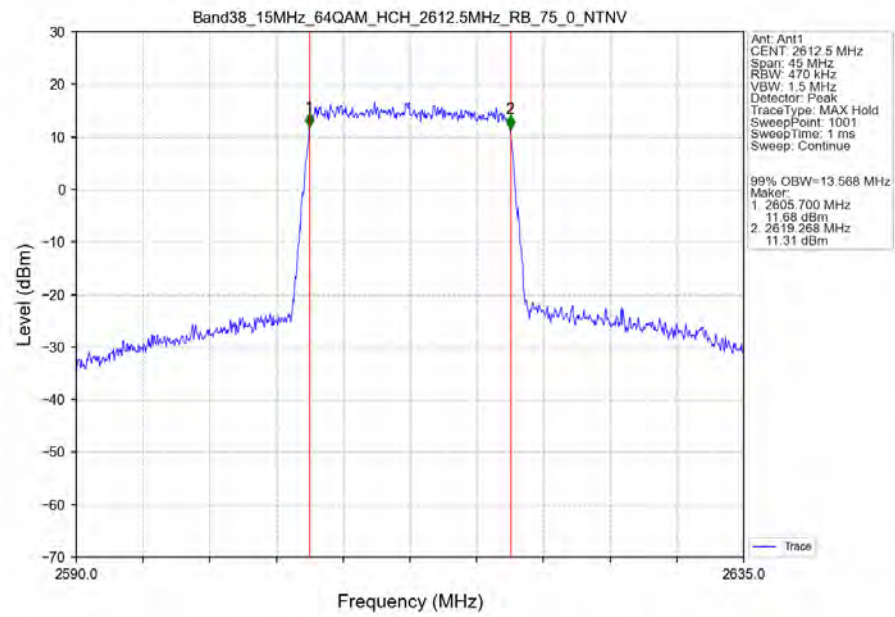
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



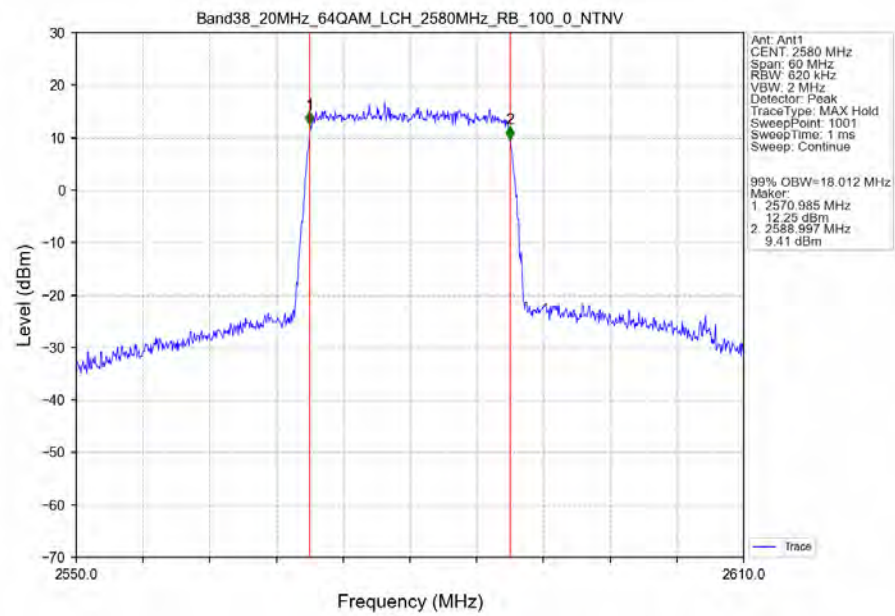
Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



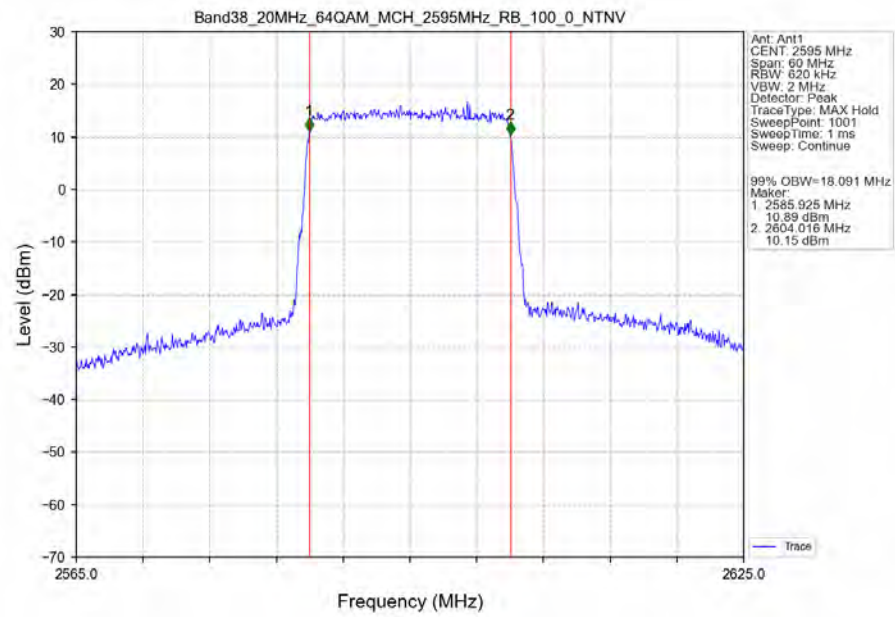
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



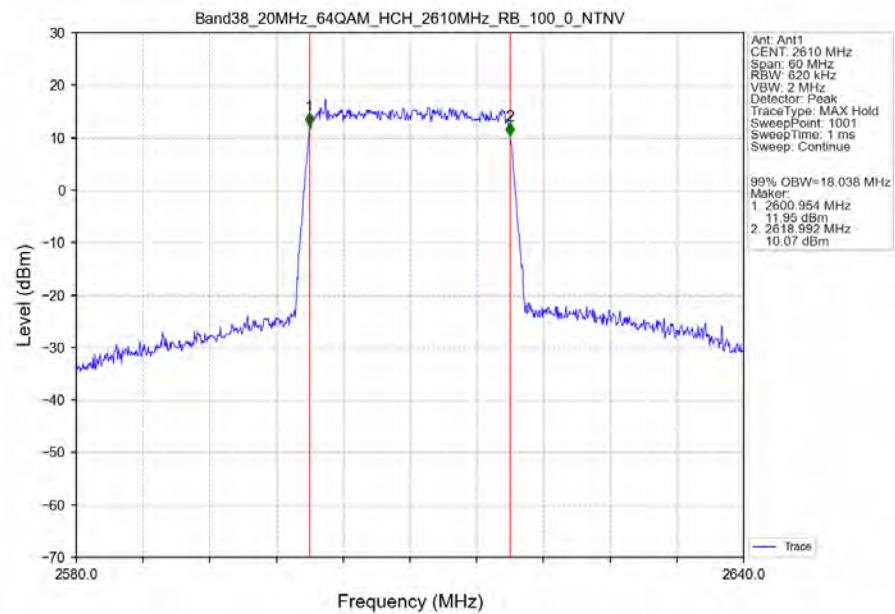
Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



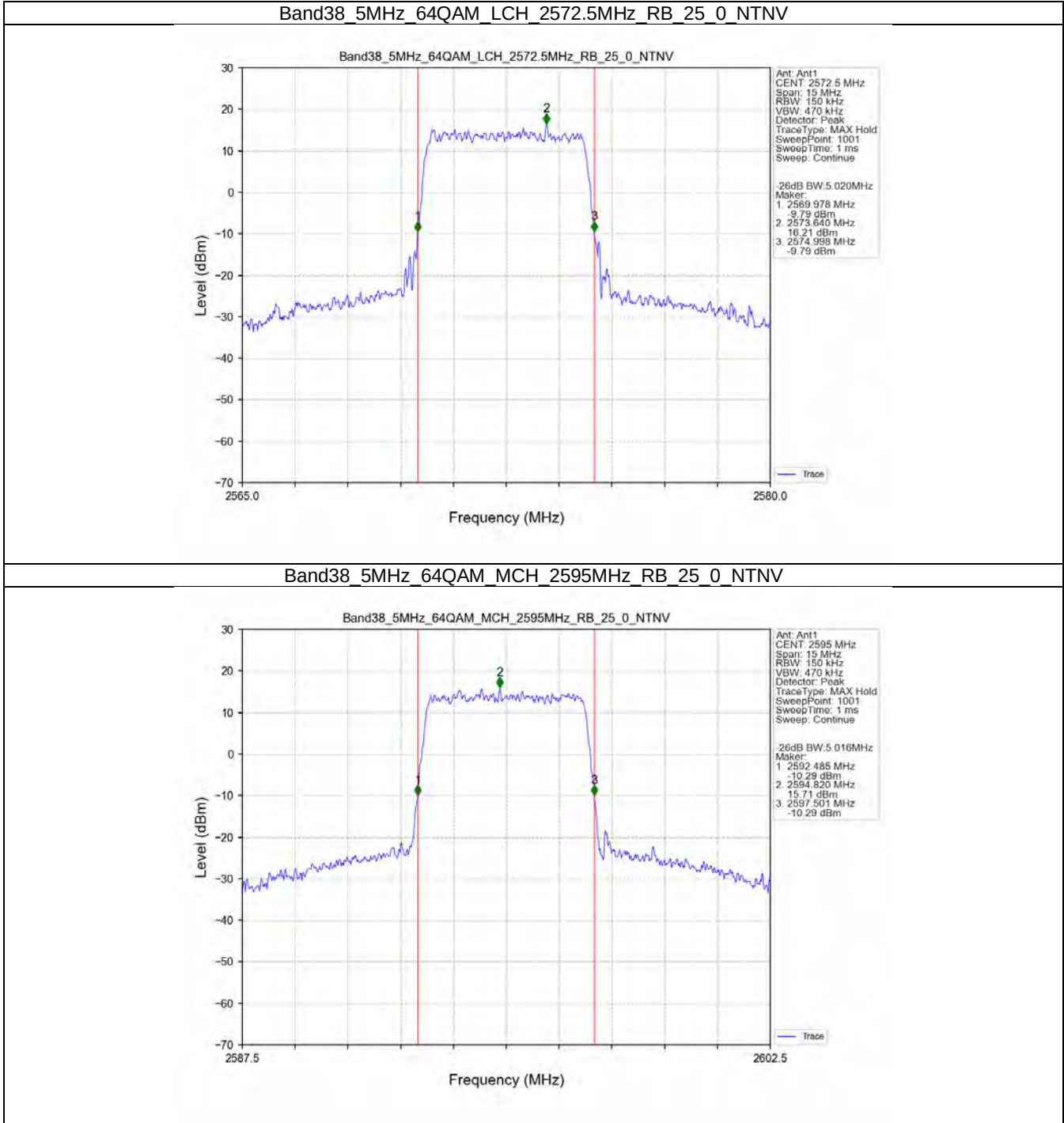
Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



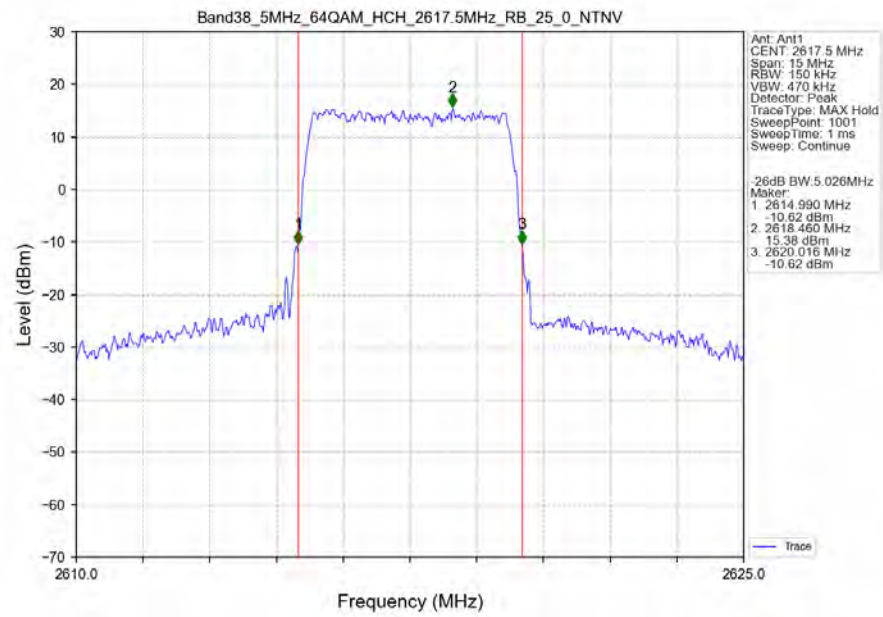
Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



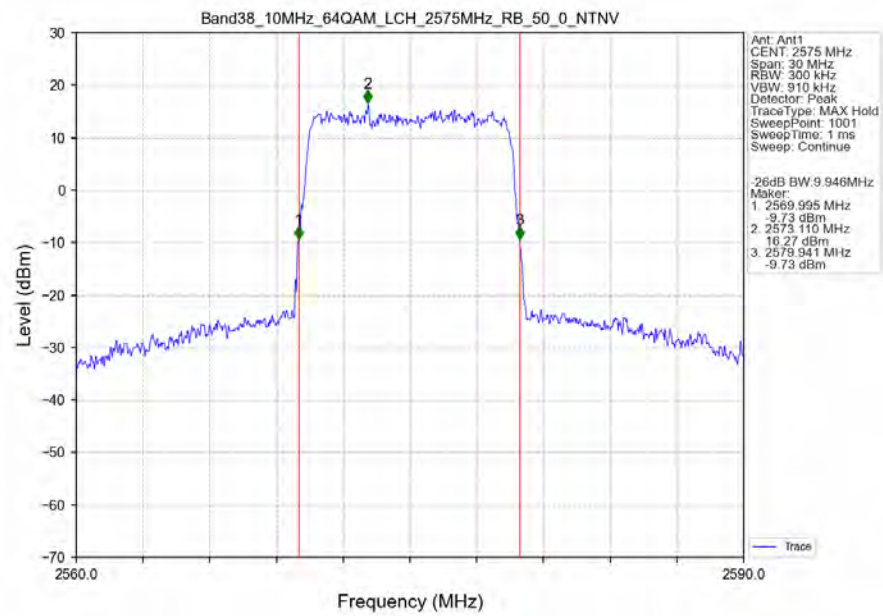
3.2.2 Band38_XDB



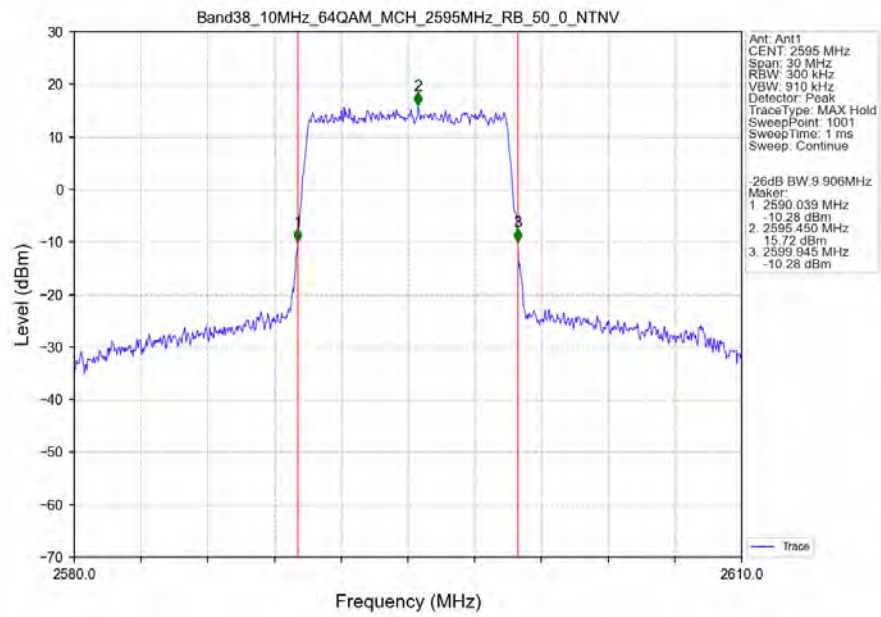
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV



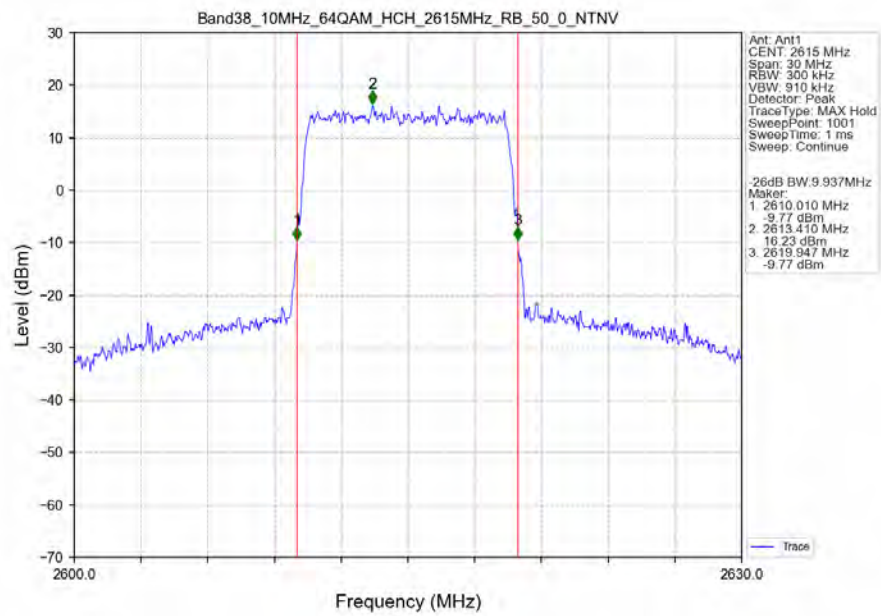
Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV



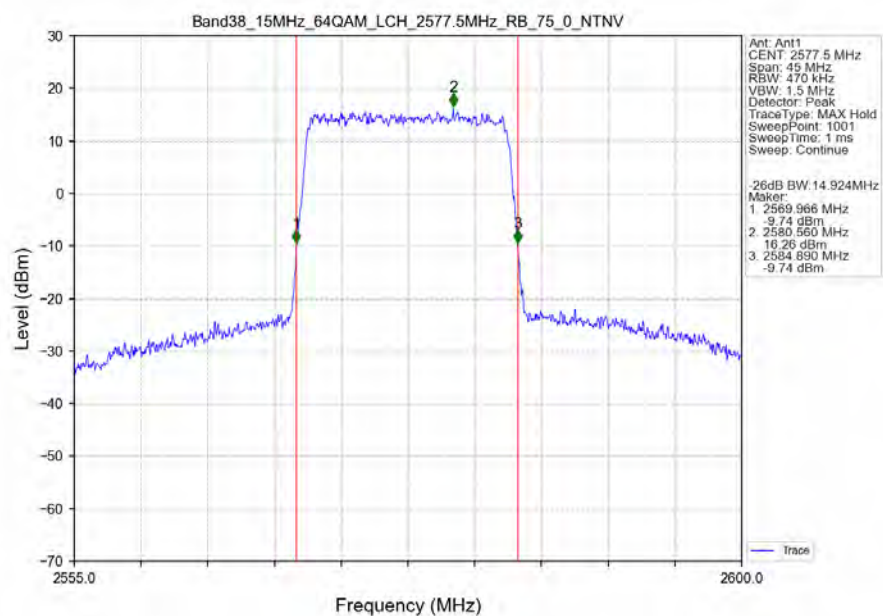
Band38_10MHz_64QAM_MCH_2595MHz_RB_50_0_NTNV



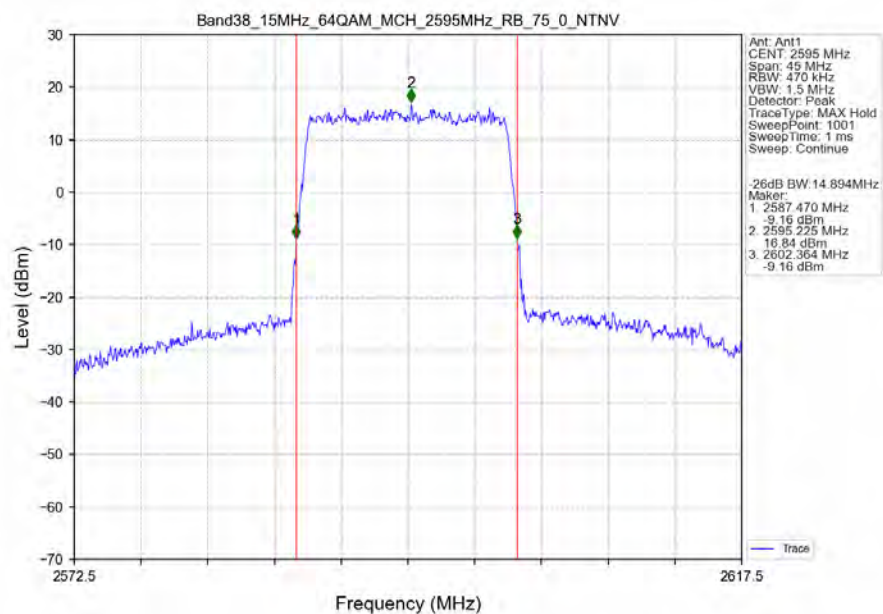
Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV



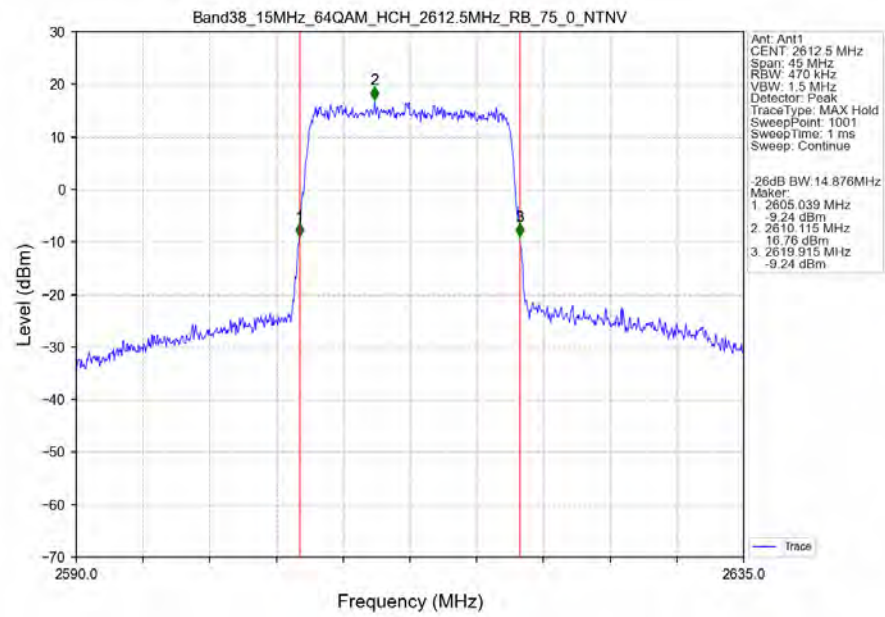
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV



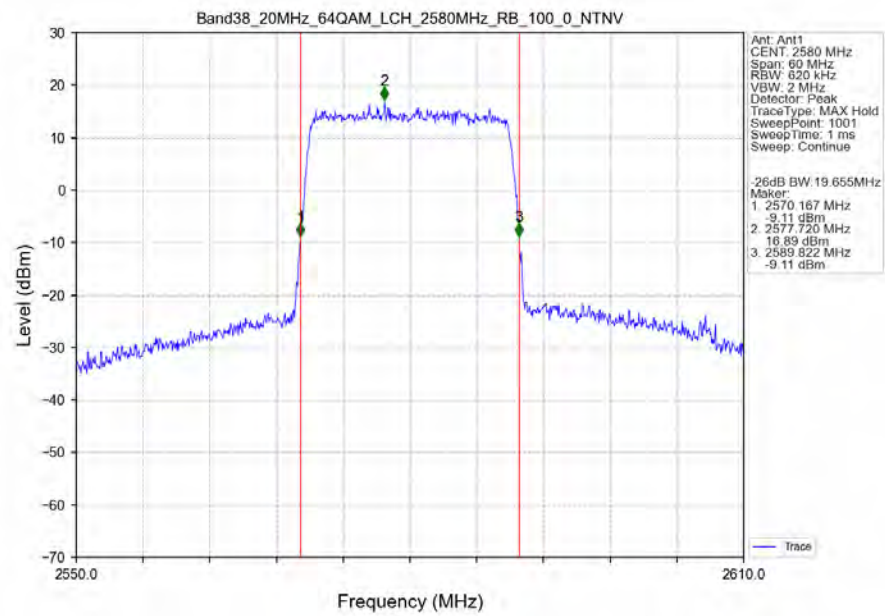
Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



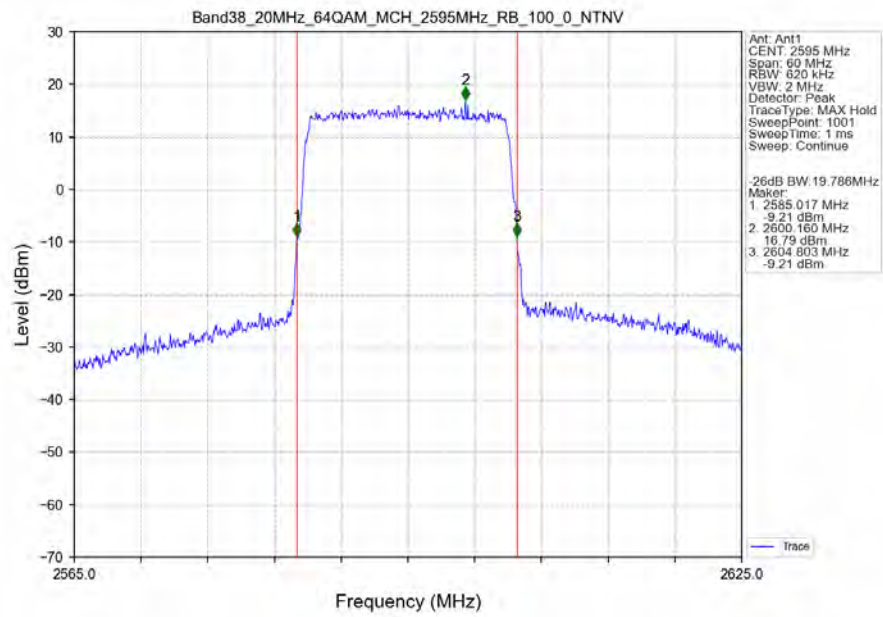
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



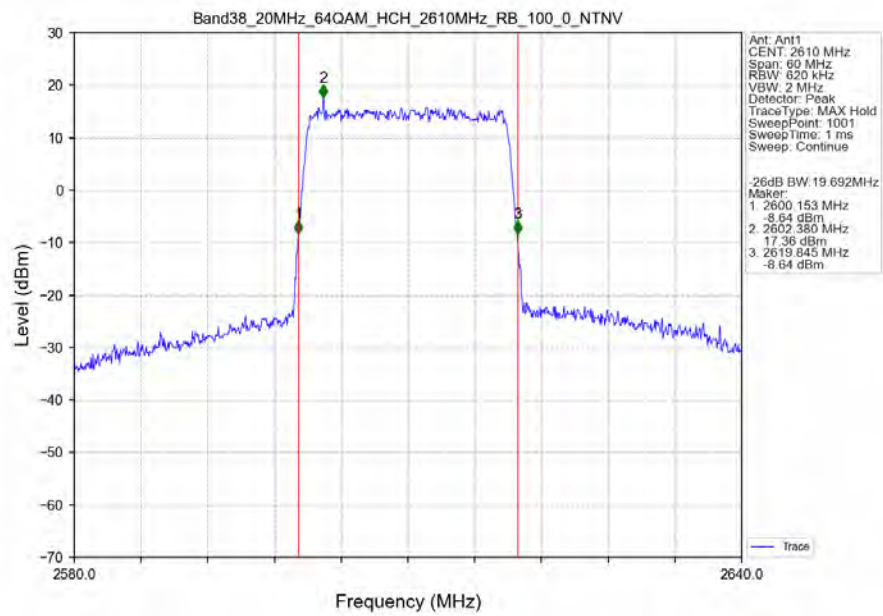
Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2572.5	25	0	8.63	<=13	Pass
	2595	25	0	8.75	<=13	Pass
	2617.5	25	0	8.57	<=13	Pass

4.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2575	50	0	8.58	<=13	Pass
	2595	50	0	8.52	<=13	Pass
	2615	50	0	8.60	<=13	Pass

4.1.3 B38_15MHz

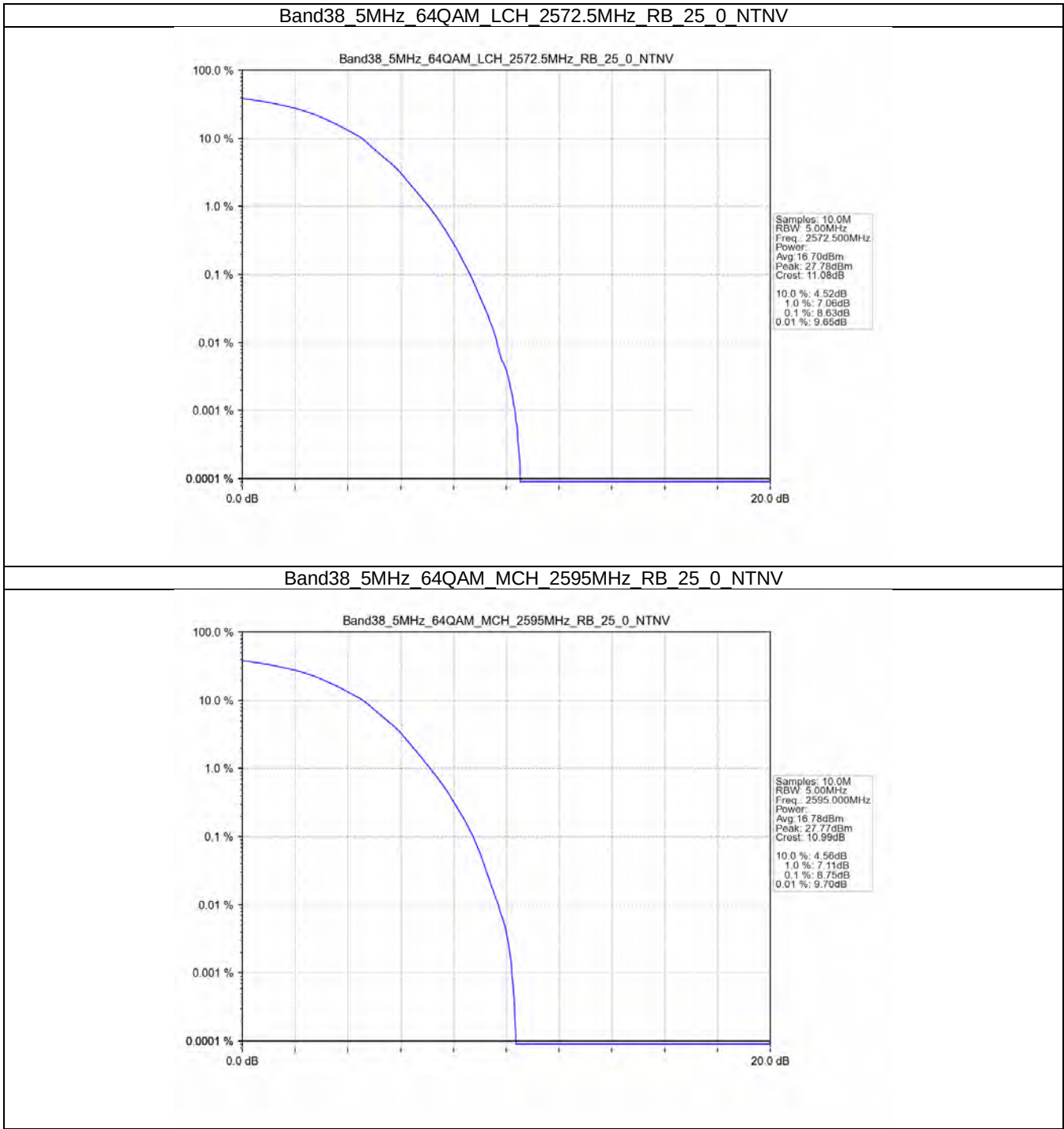
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2577.5	75	0	8.59	<=13	Pass
	2595	75	0	8.62	<=13	Pass
	2612.5	75	0	8.60	<=13	Pass

4.1.4 B38_20MHz

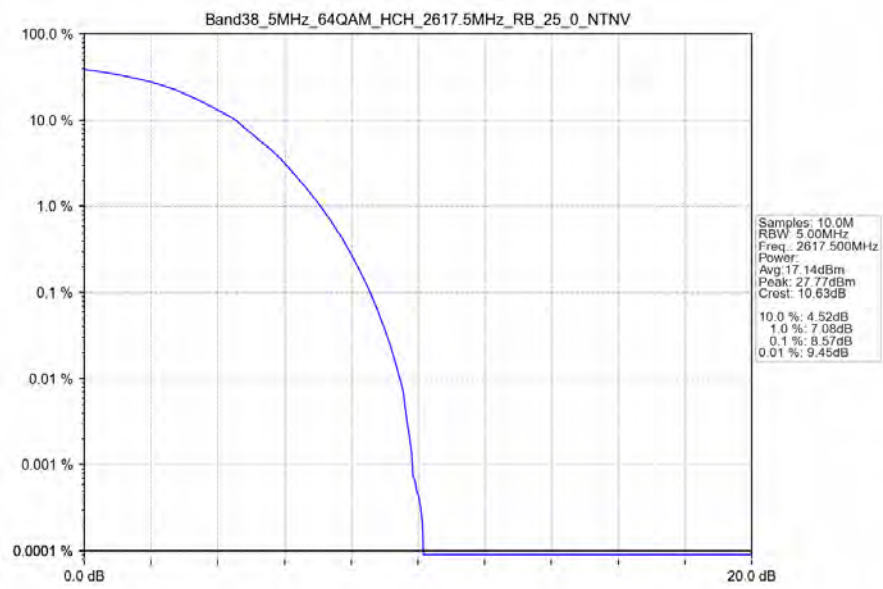
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2580	100	0	8.52	<=13	Pass
	2595	100	0	8.45	<=13	Pass
	2610	100	0	8.35	<=13	Pass

4.2 Test Graph

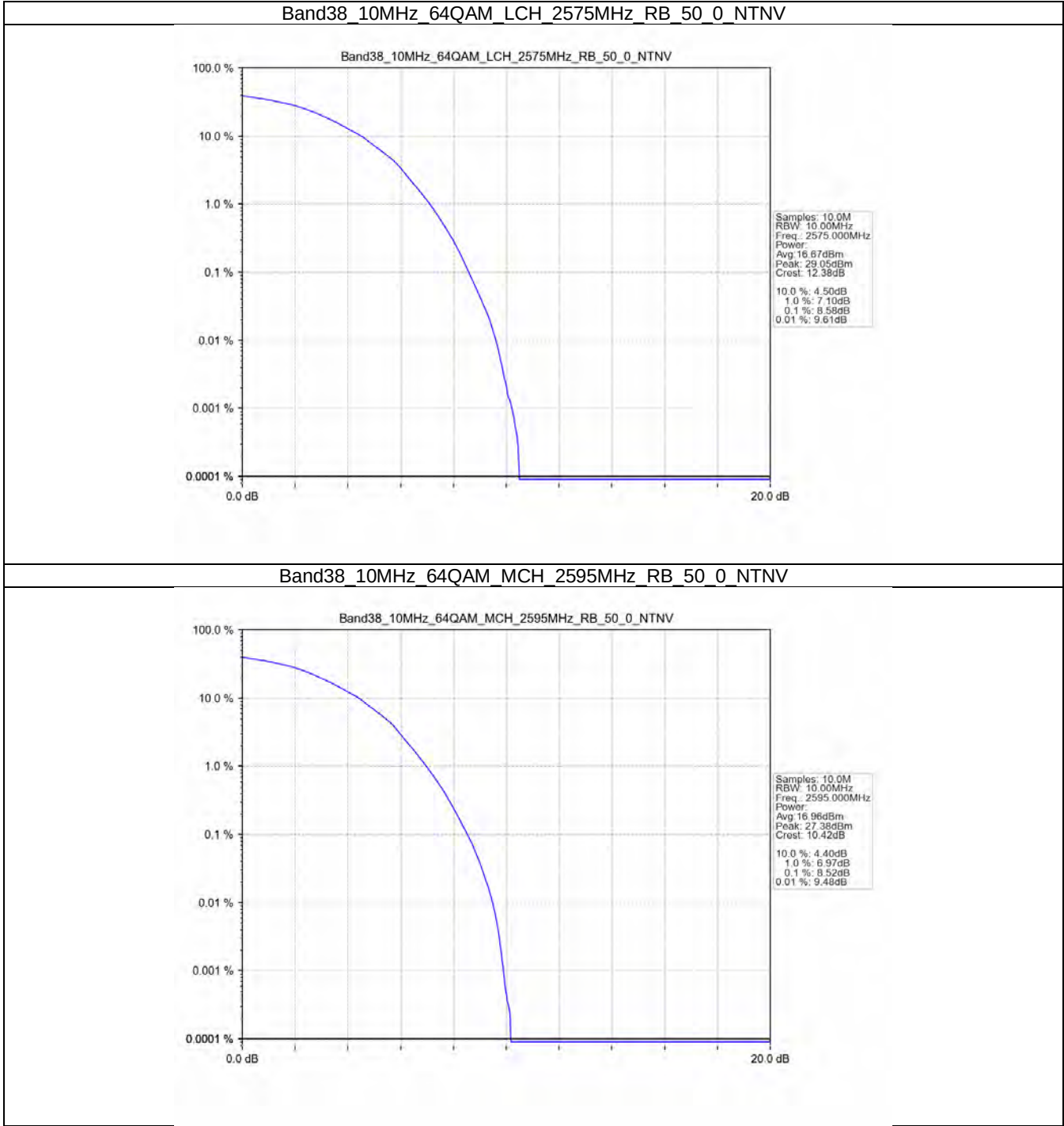
4.2.1 B38_5MHz



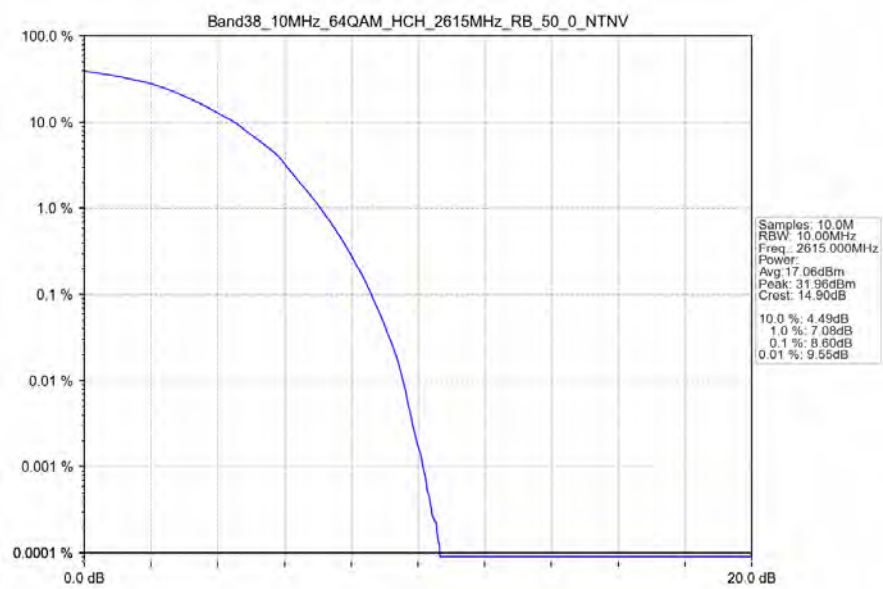
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV



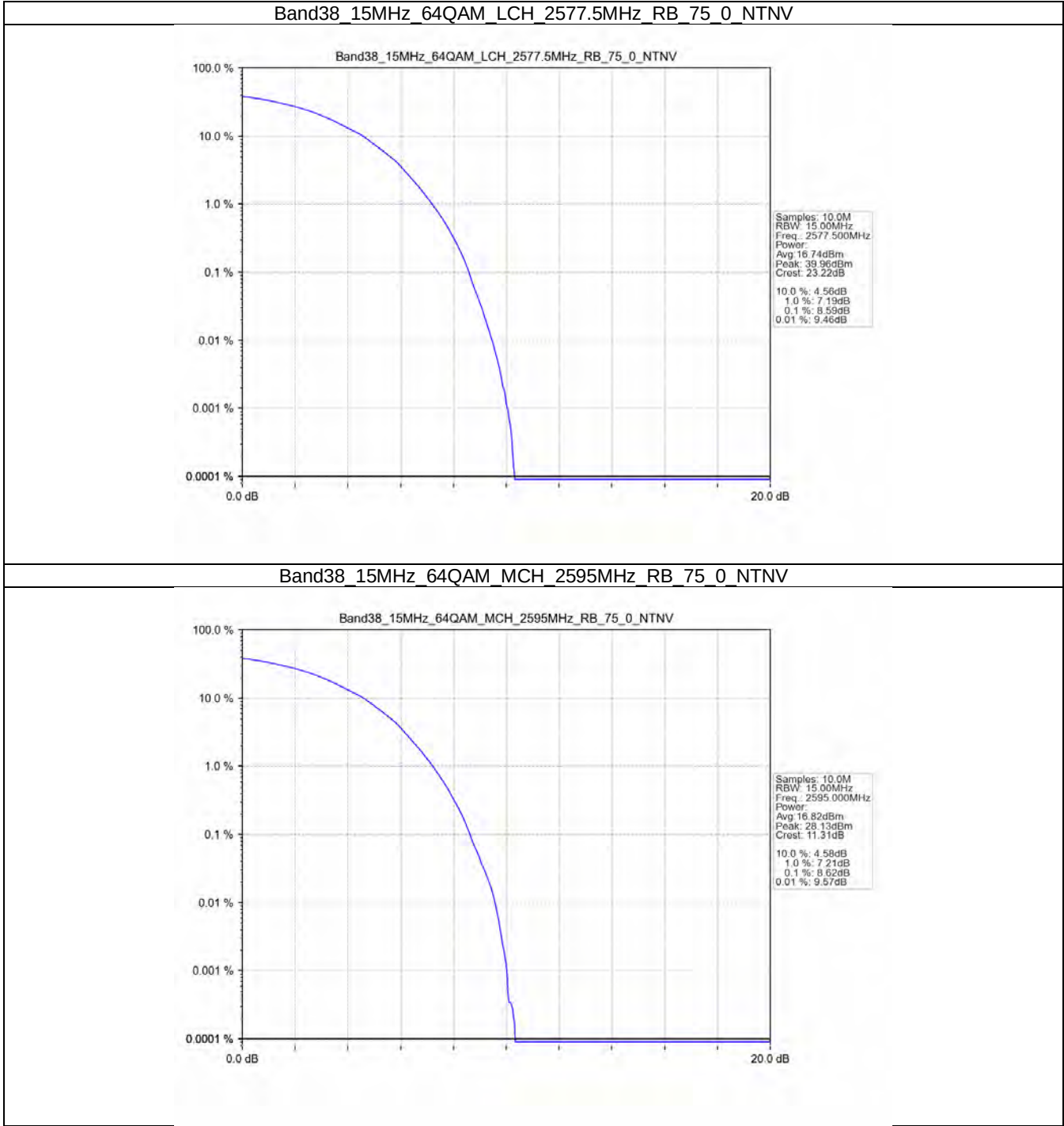
4.2.2 B38_10MHz



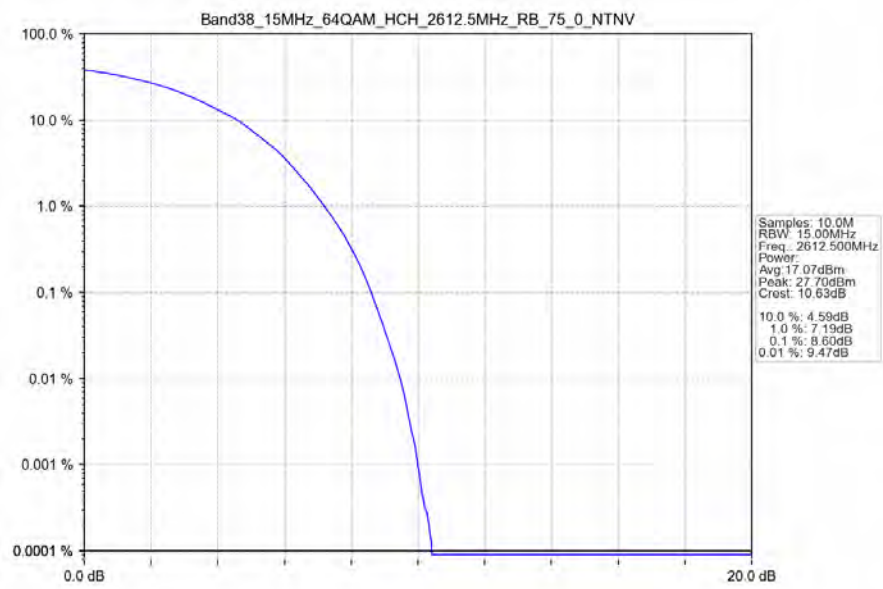
Band38_10MHz_64QAM_HCH_2615MHz_RB_50_0_NTNV



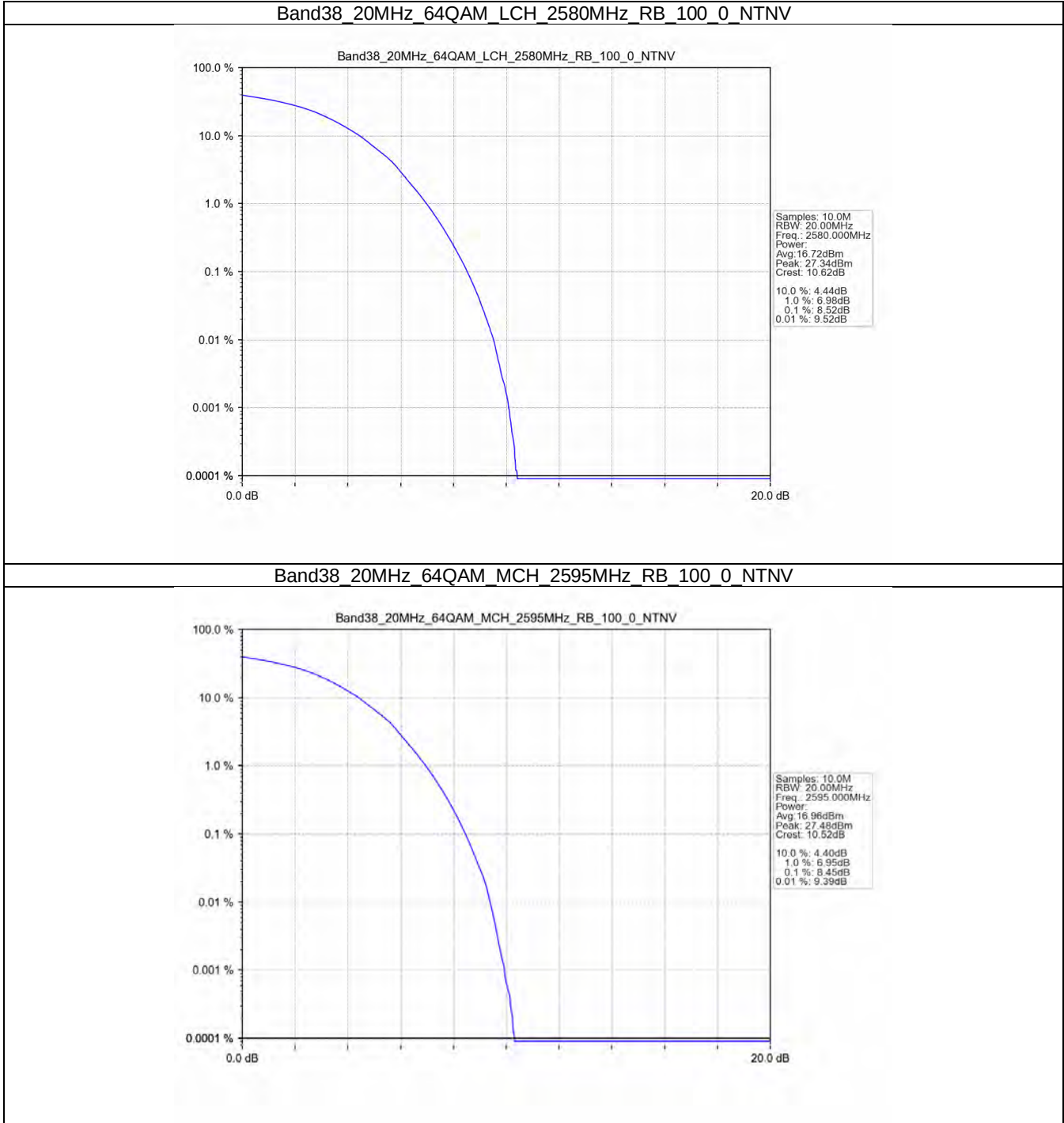
4.2.3 B38_15MHz



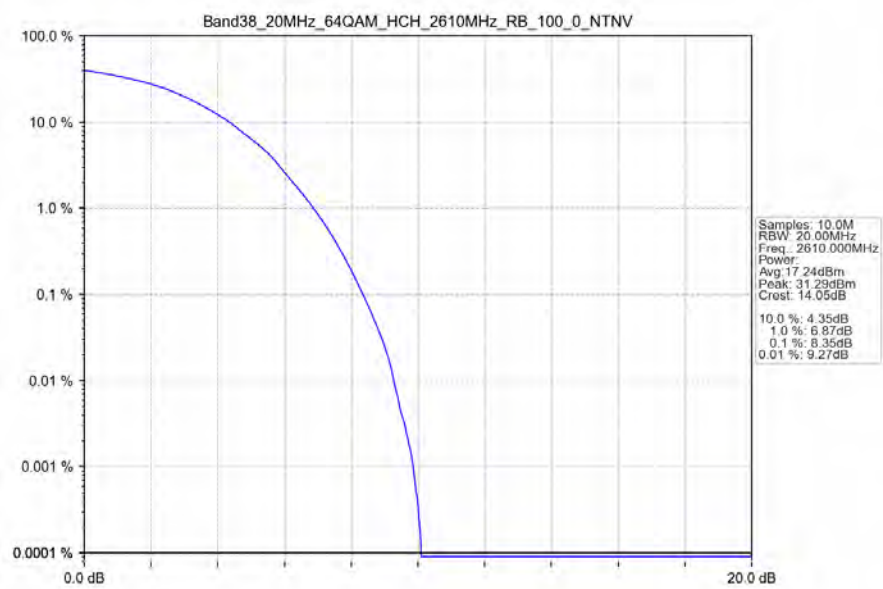
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



4.2.4 B38_20MHz



Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTV



5. Spurious Emission

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

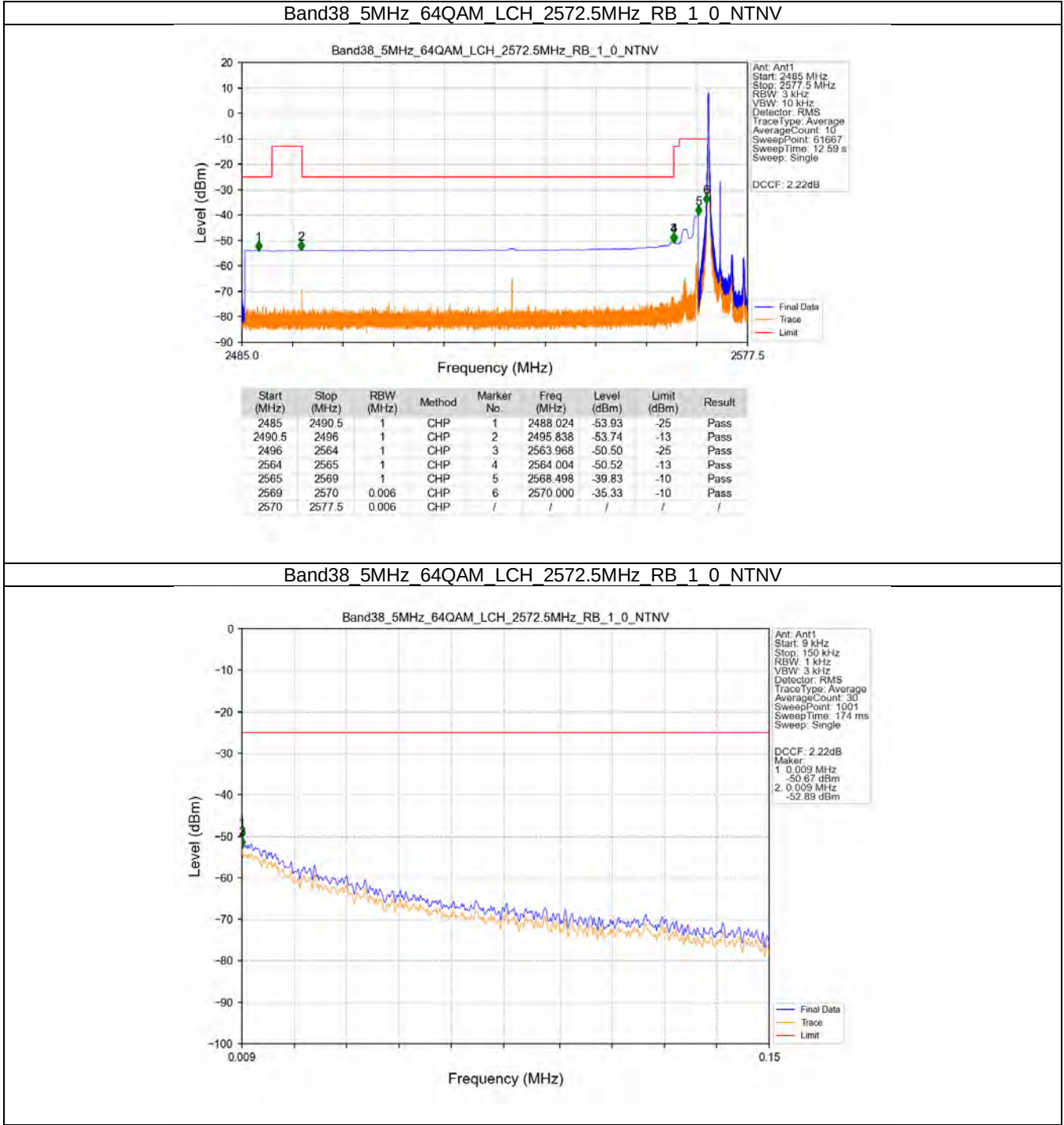
5.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass

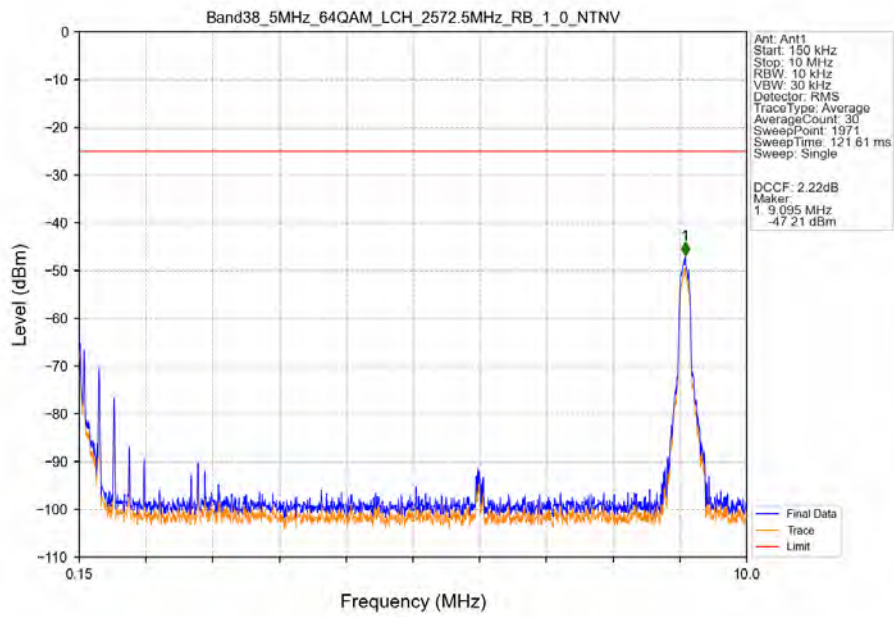
	2610	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

5.2 Test Graph

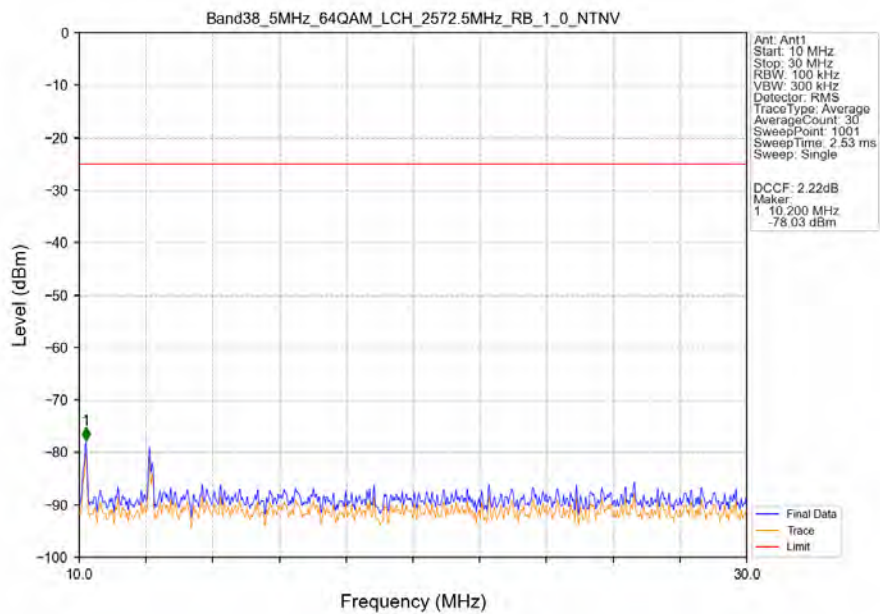
5.2.1 B38_5MHz



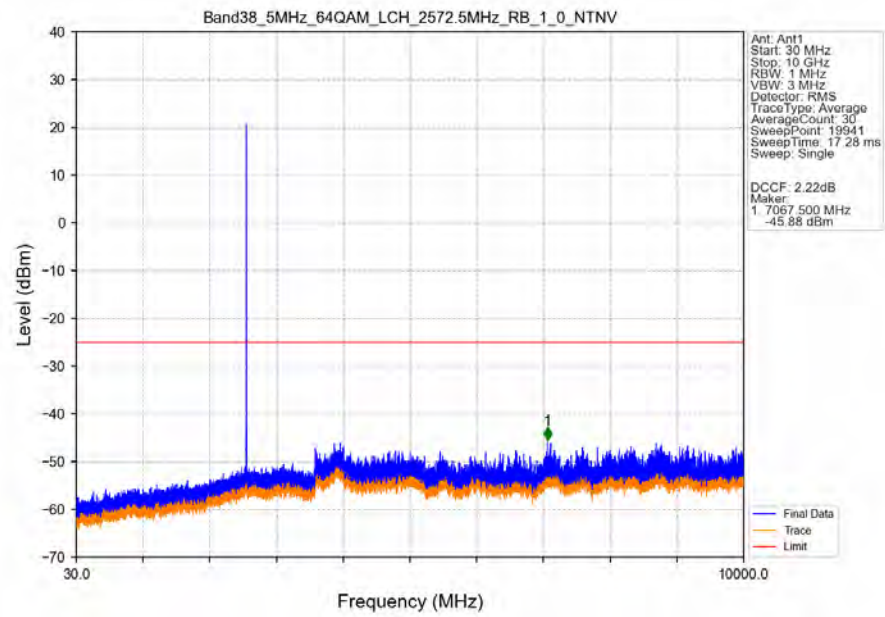
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



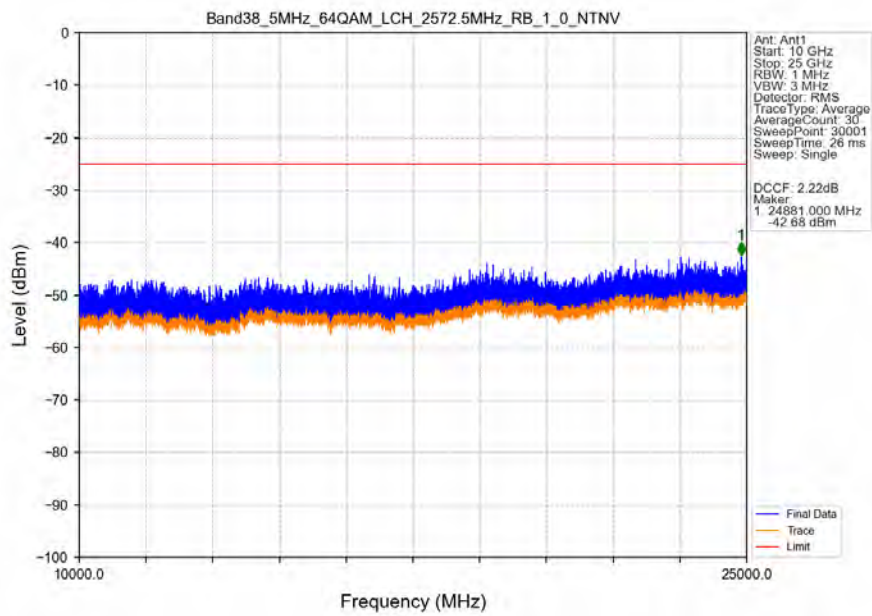
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



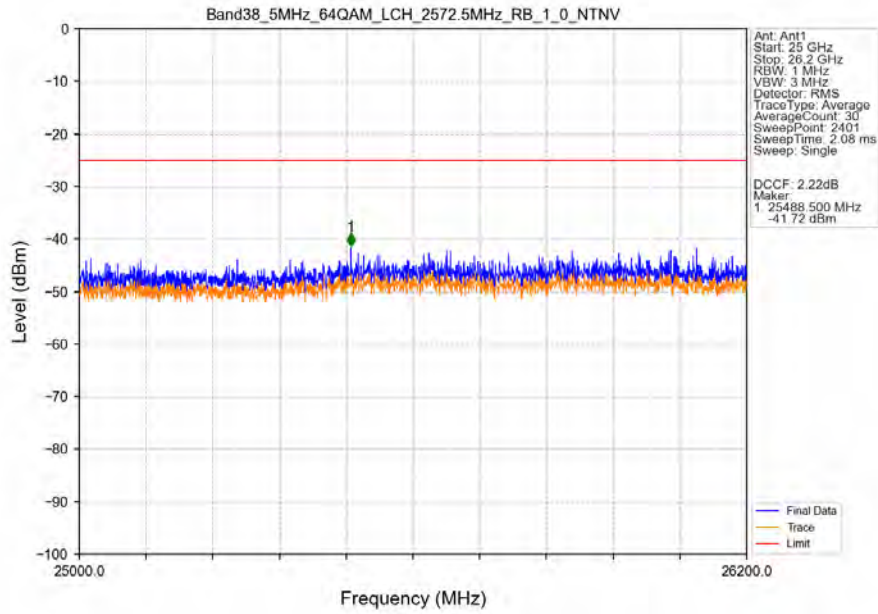
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



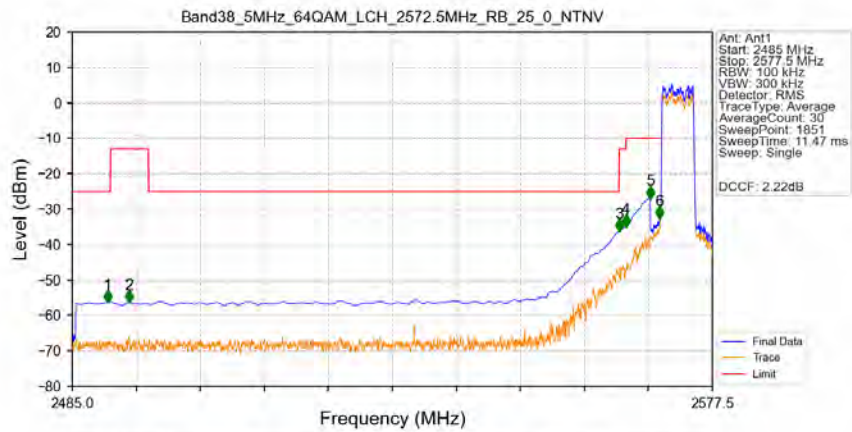
Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV

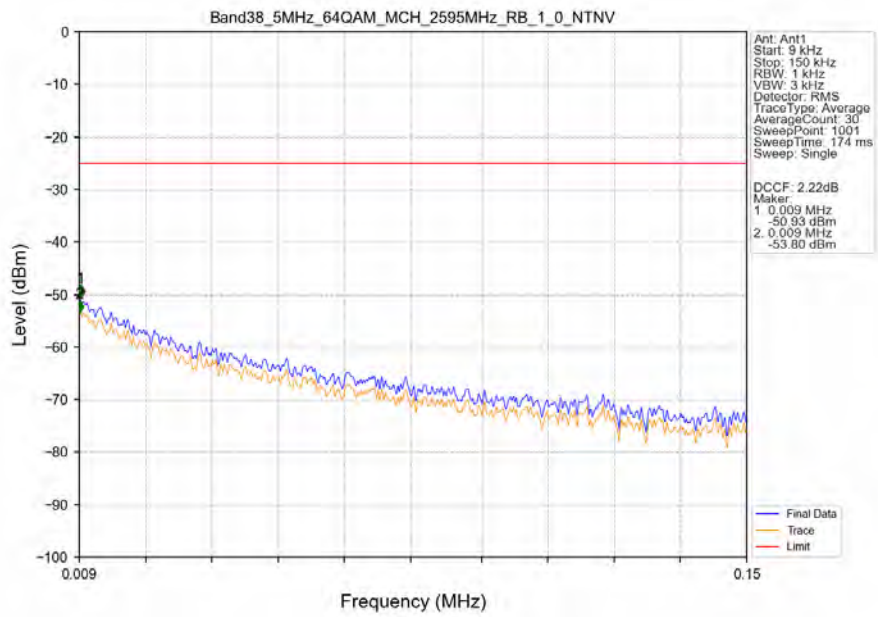


Band38_5MHz_64QAM_LCH_2572.5MHz_RB_25_0_NTNV

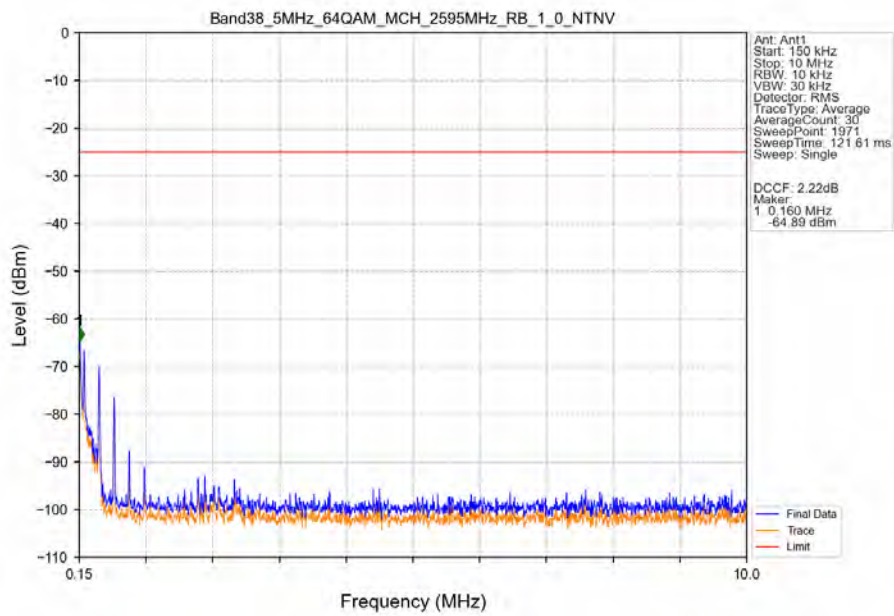


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.100	-56.19	-25	Pass
2490.5	2496	1	CHP	2	2493.200	-56.18	-13	Pass
2496	2564	1	CHP	3	2564.000	-36.09	-25	Pass
2564	2565	1	CHP	4	2565.000	-34.84	-13	Pass
2565	2569	1	CHP	5	2568.500	-26.78	-10	Pass
2569	2570	0.1	/	6	2569.900	-32.49	-10	Pass
2570	2577.5	0.1	/	/	/	/	/	/

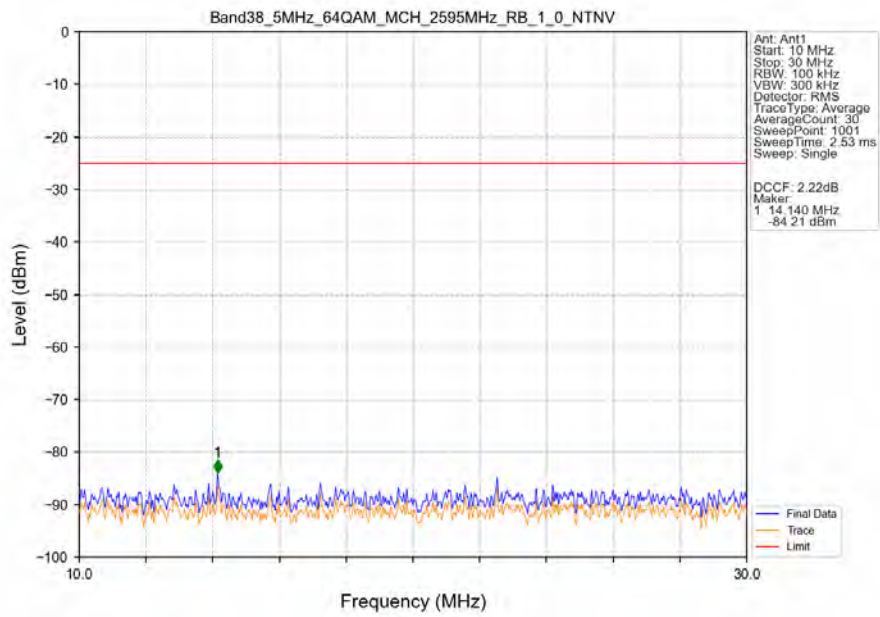
Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



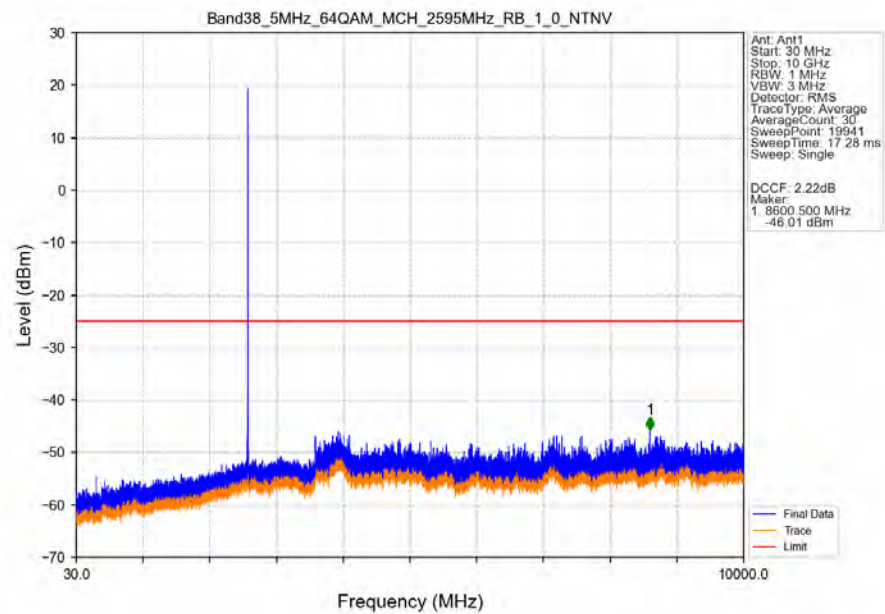
Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



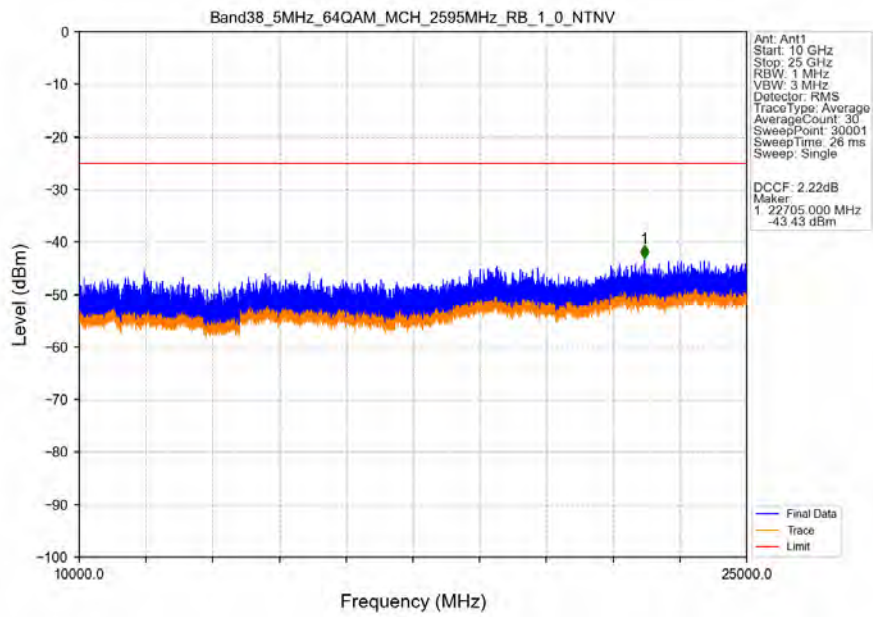
Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



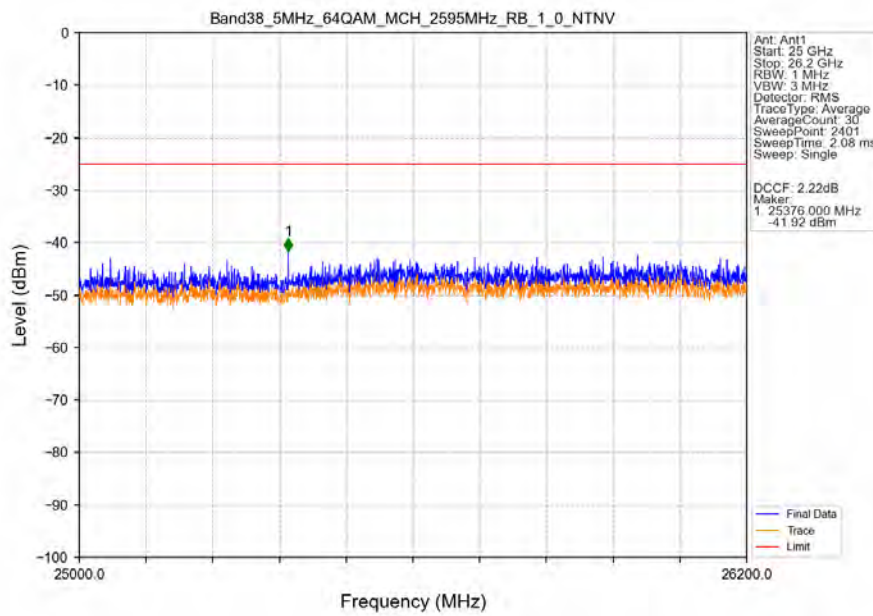
Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



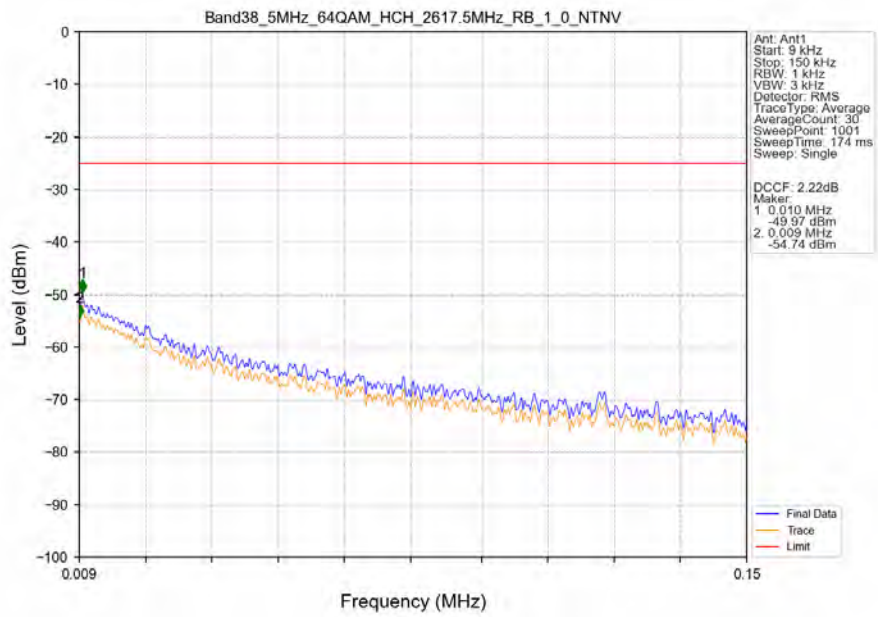
Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



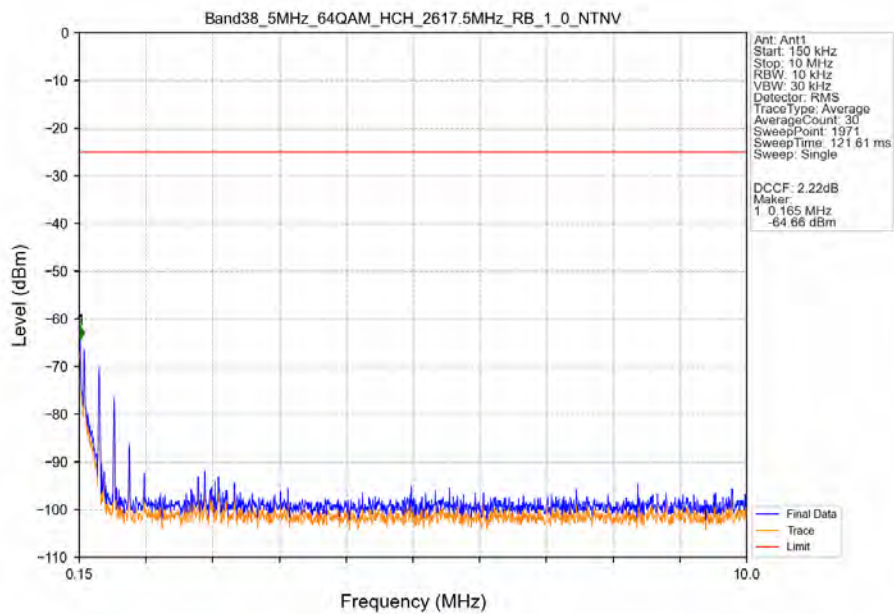
Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



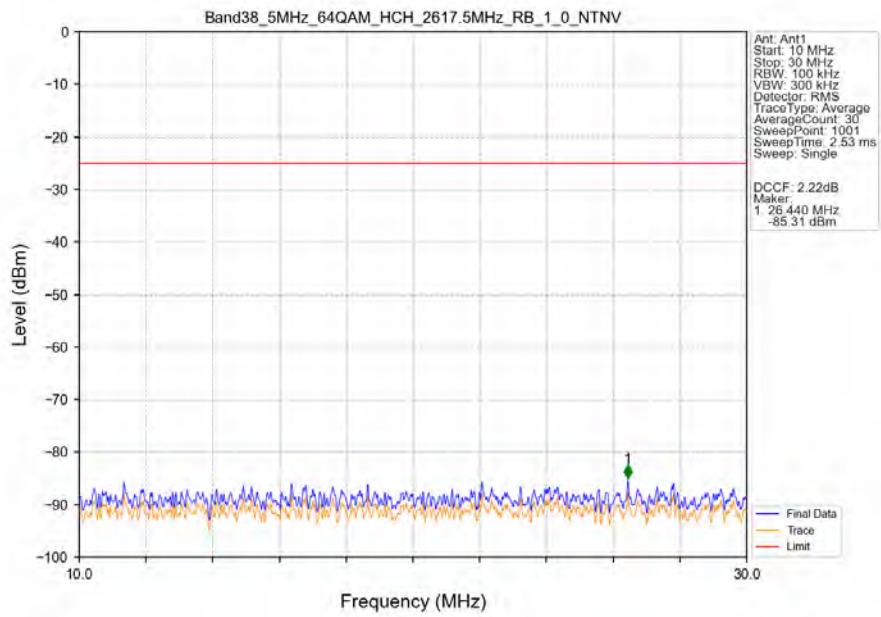
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_0_NTNV



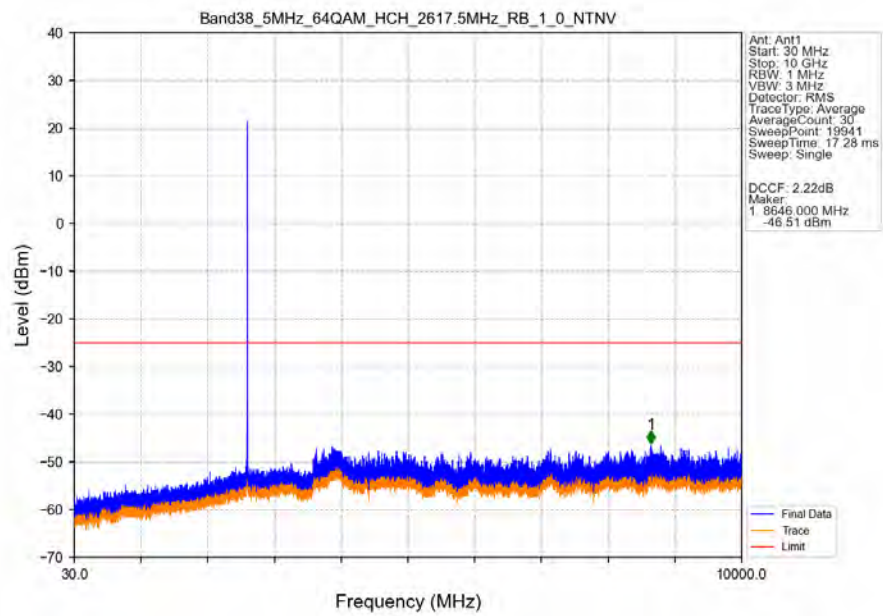
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_0_NTNV



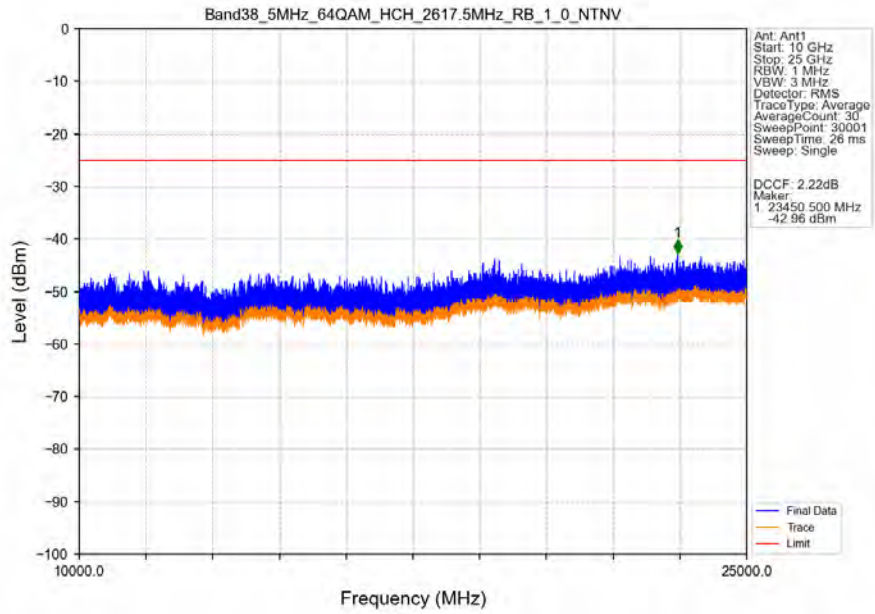
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_0_NTNV



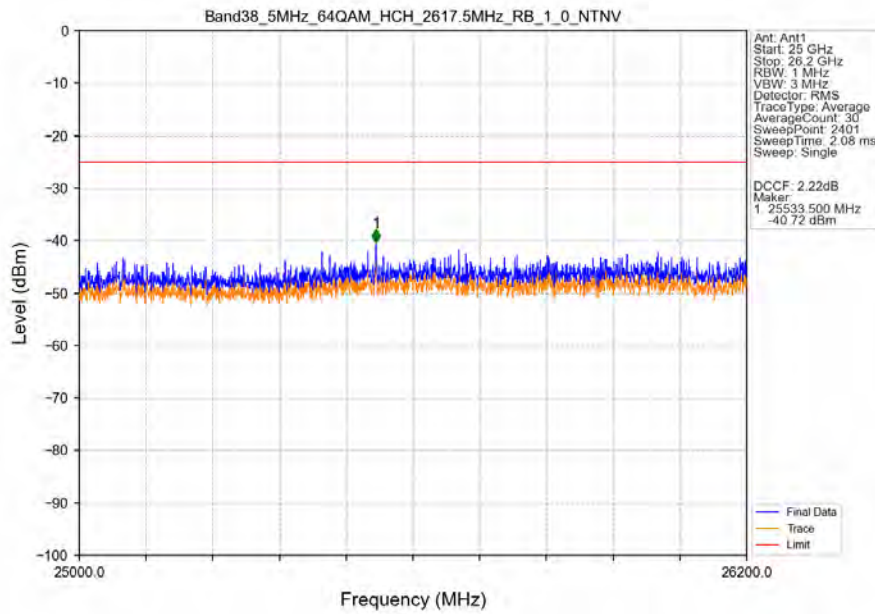
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_0_NTNV



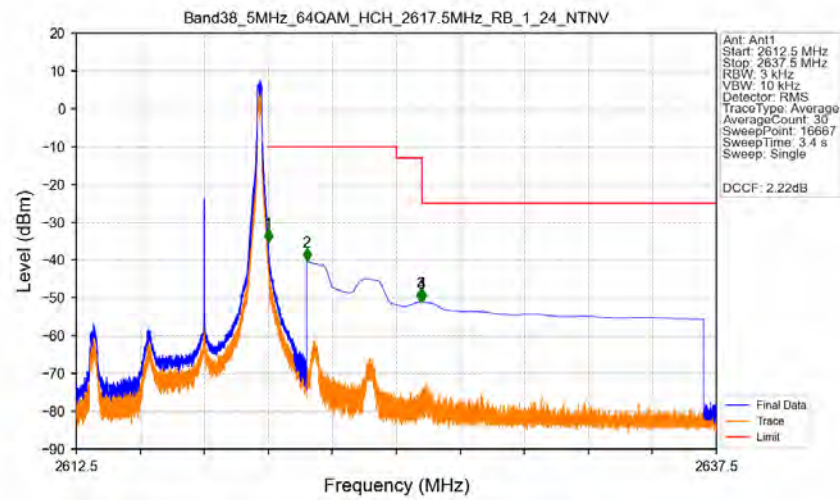
Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_0_NTNV



Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_0_NTNV

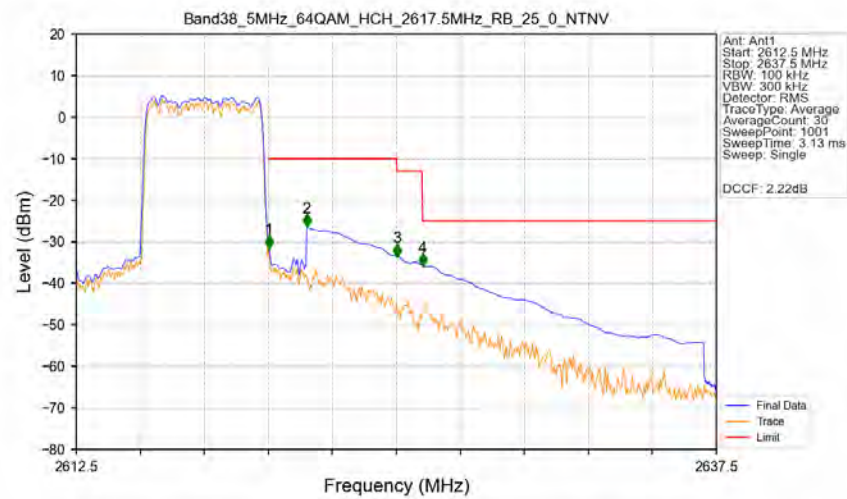


Band38_5MHz_64QAM_HCH_2617.5MHz_RB_1_24_NTNV



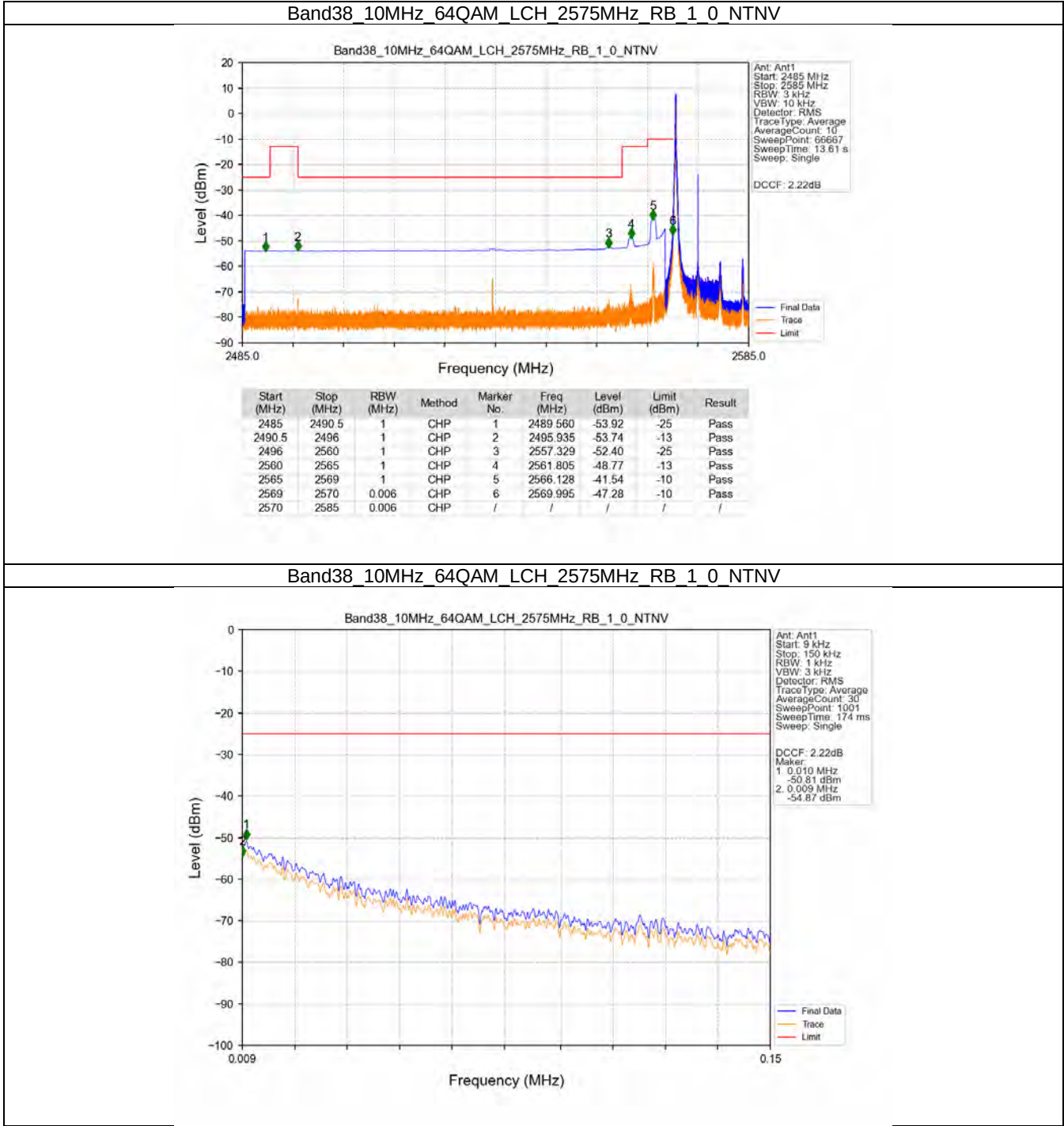
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.006	CHP	/	/	/	/	/
2620	2621	0.006	CHP	1	2620.000	-35.21	-10	Pass
2621	2625	1	CHP	2	2621.500	-40.24	-10	Pass
2625	2626	1	CHP	3	2625.933	-51.07	-13	Pass
2626	2637.5	1	CHP	4	2626.001	-51.09	-25	Pass

Band38_5MHz_64QAM_HCH_2617.5MHz_RB_25_0_NTNV

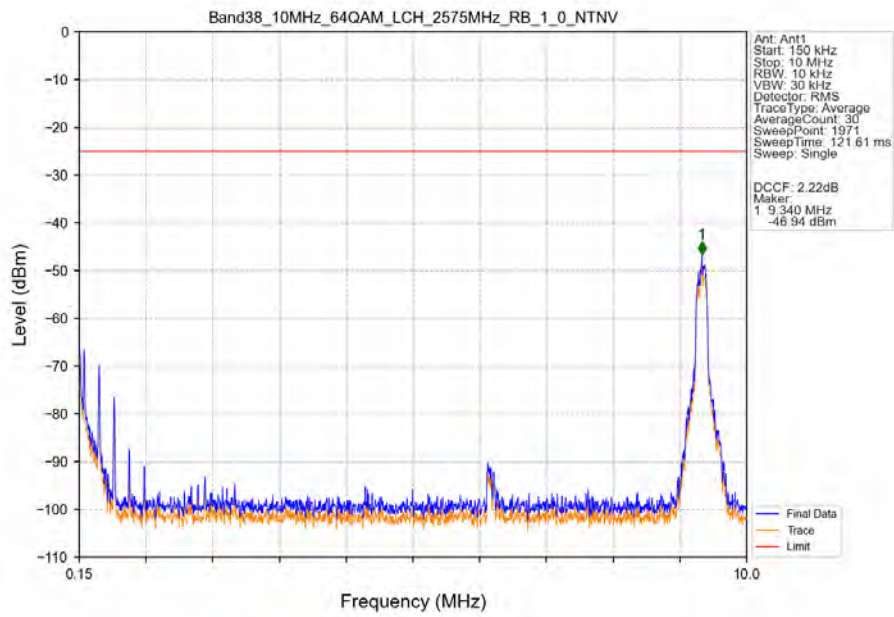


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.101	CHP	/	/	/	/	/
2620	2621	0.101	CHP	1	2620.025	-31.51	-10	Pass
2621	2625	1	CHP	2	2621.500	-26.47	-10	Pass
2625	2626	1	CHP	3	2625.025	-33.59	-13	Pass
2626	2637.5	1	CHP	4	2626.025	-35.79	-25	Pass

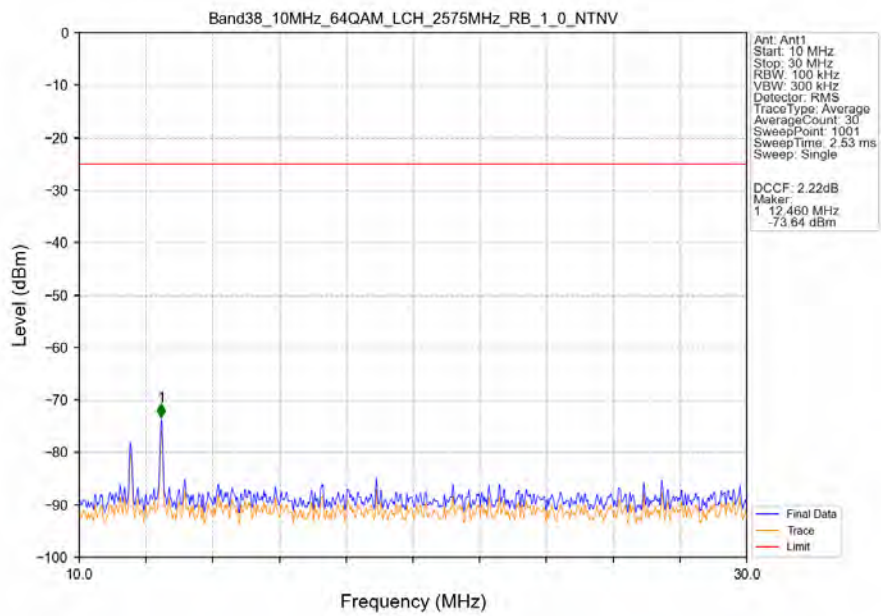
5.2.2 B38_10MHz



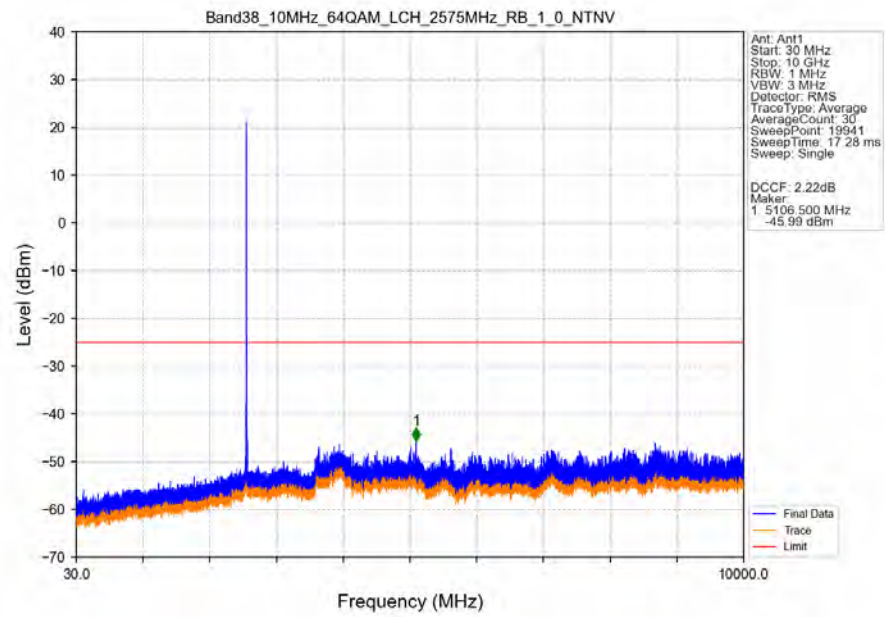
Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



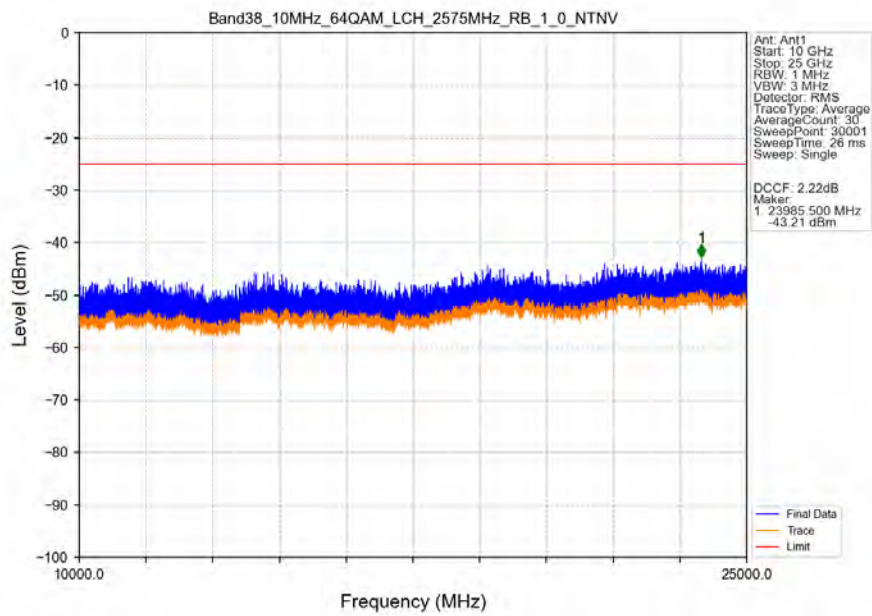
Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



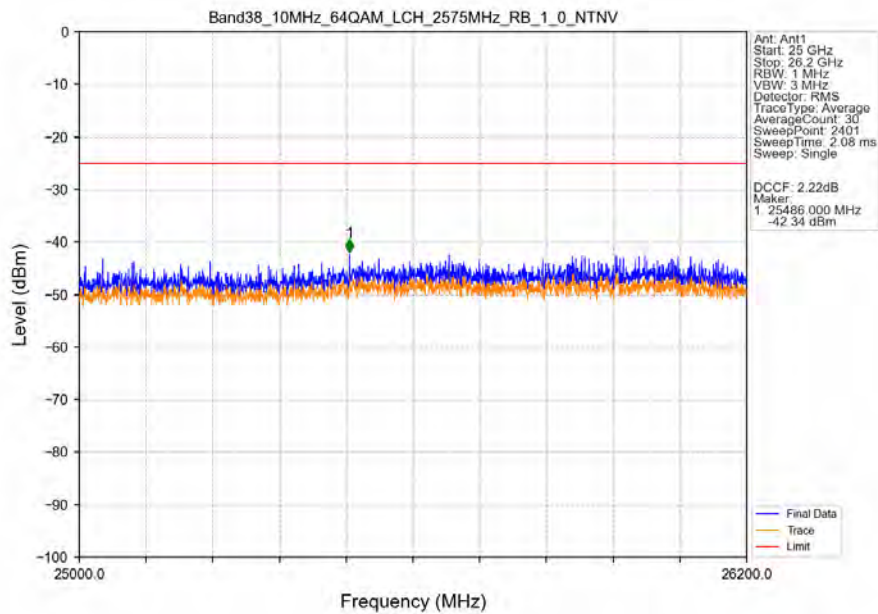
Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



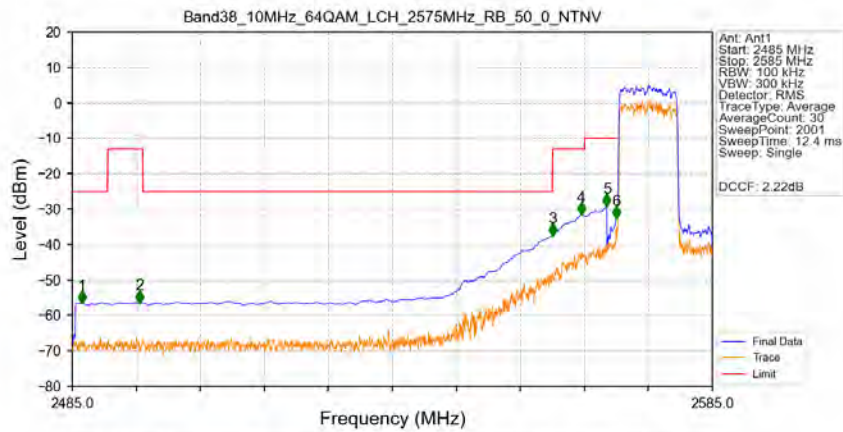
Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV



Band38_10MHz_64QAM_LCH_2575MHz_RB_1_0_NTNV

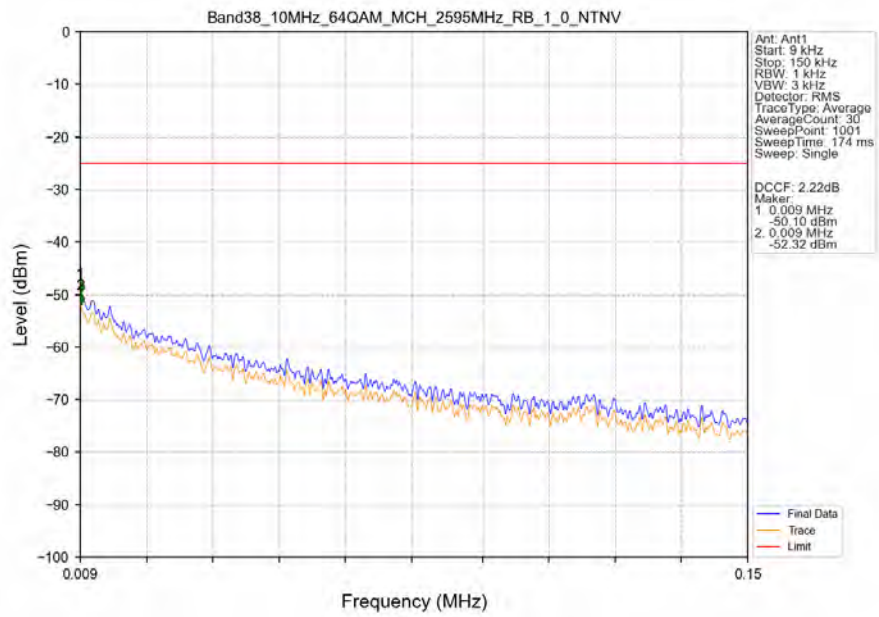


Band38_10MHz_64QAM_LCH_2575MHz_RB_50_0_NTNV

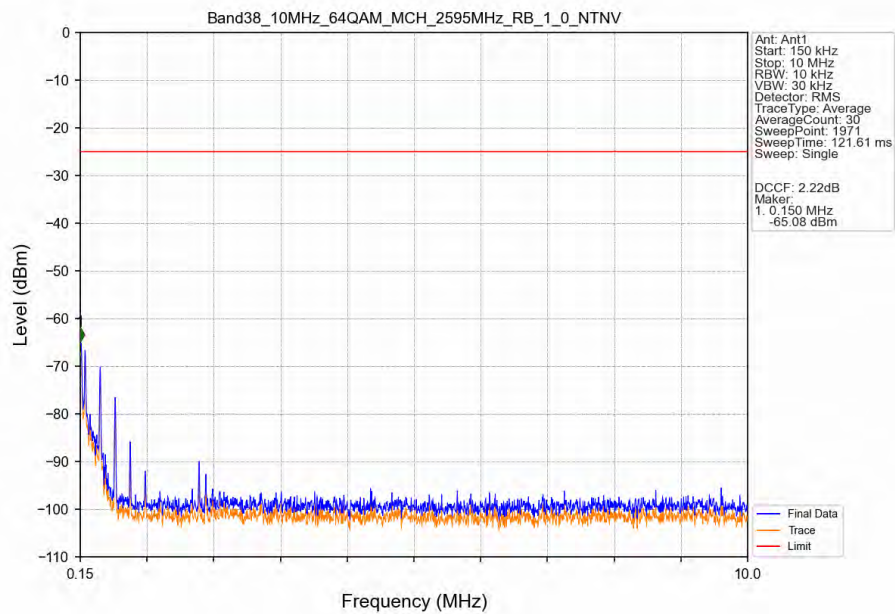


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.500	-56.39	-25	Pass
2490.5	2496	1	CHP	2	2495.500	-56.27	-13	Pass
2496	2560	1	CHP	3	2560.000	-37.33	-25	Pass
2560	2565	1	CHP	4	2564.550	-31.47	-13	Pass
2565	2569	1	CHP	5	2568.500	-29.10	-10	Pass
2569	2570	0.199	CHP	6	2569.950	-32.40	-10	Pass
2570	2585	0.199	CHP	/	/	/	/	/

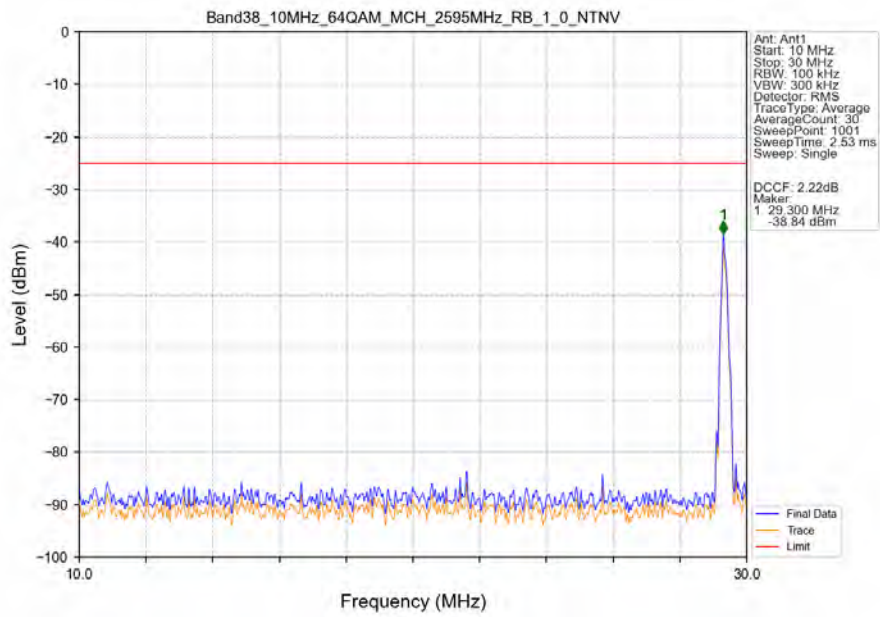
Band38_10MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



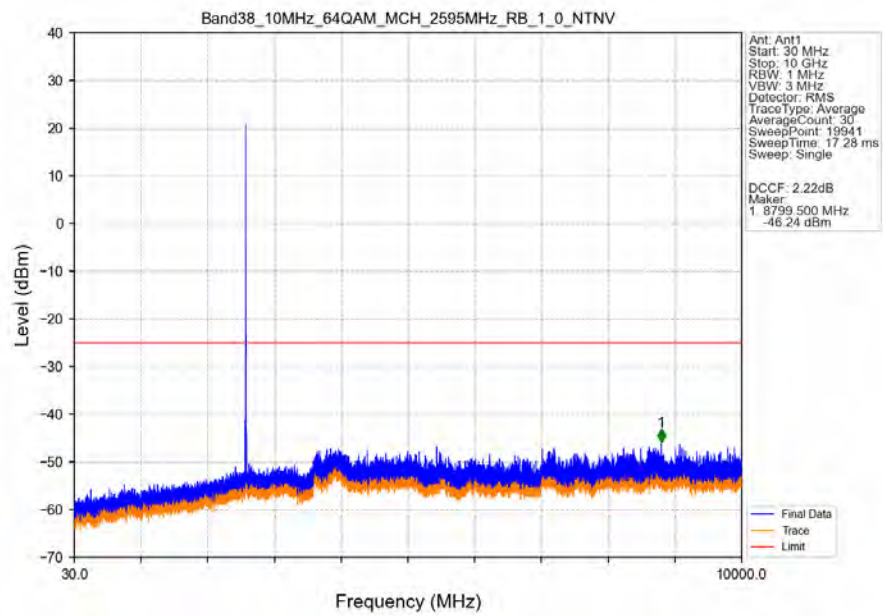
Band38_10MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



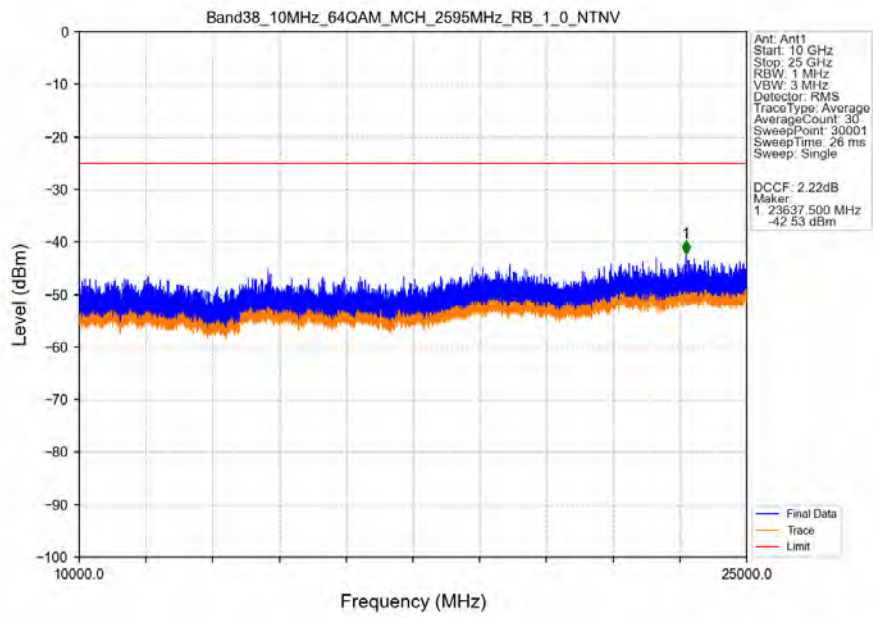
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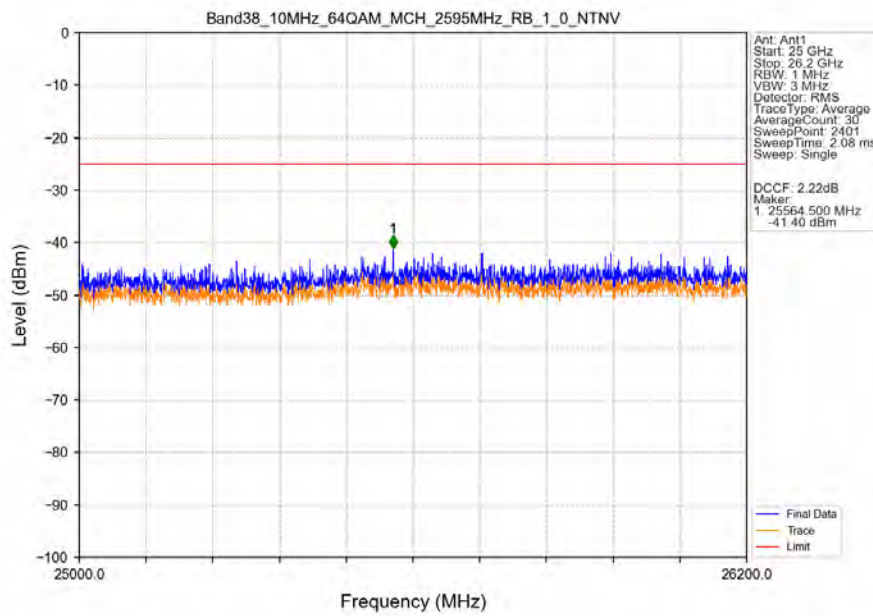
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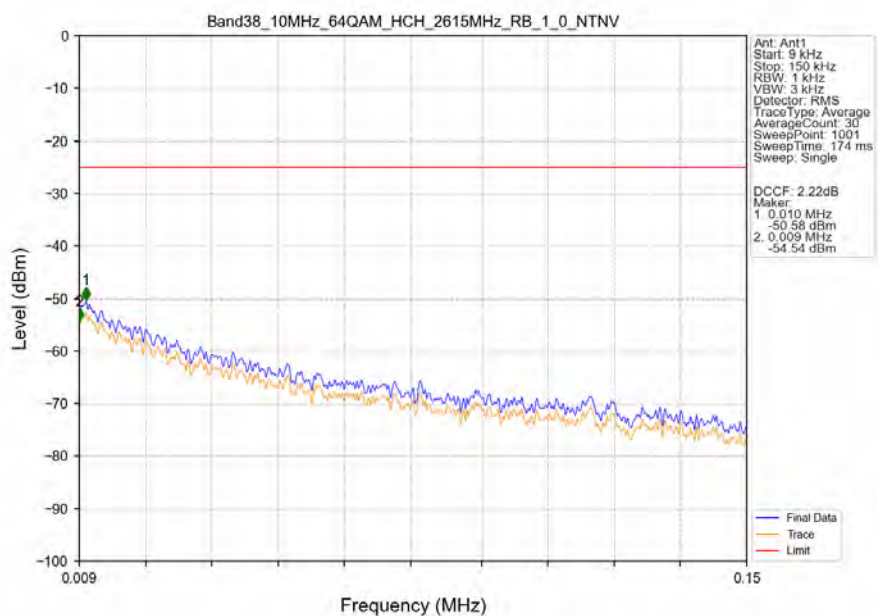
Band38_10MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



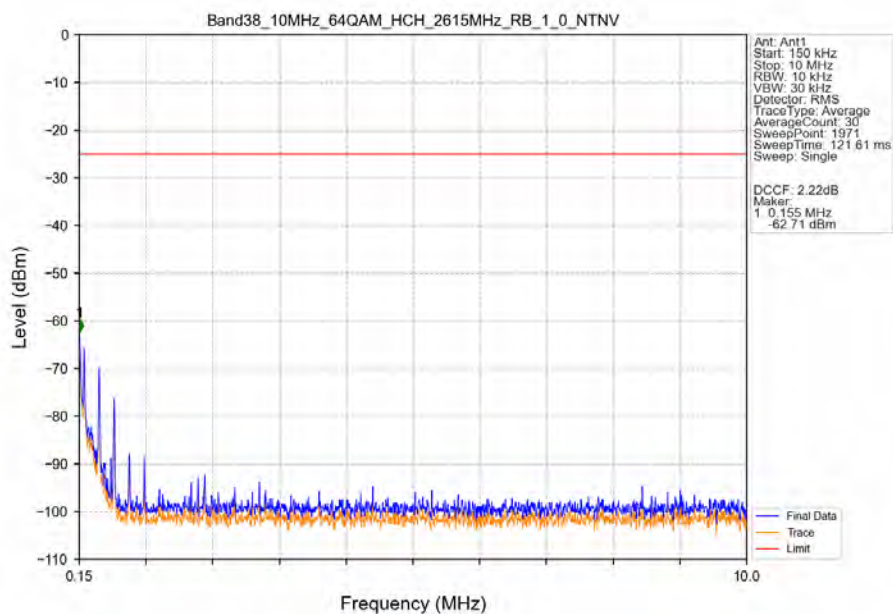
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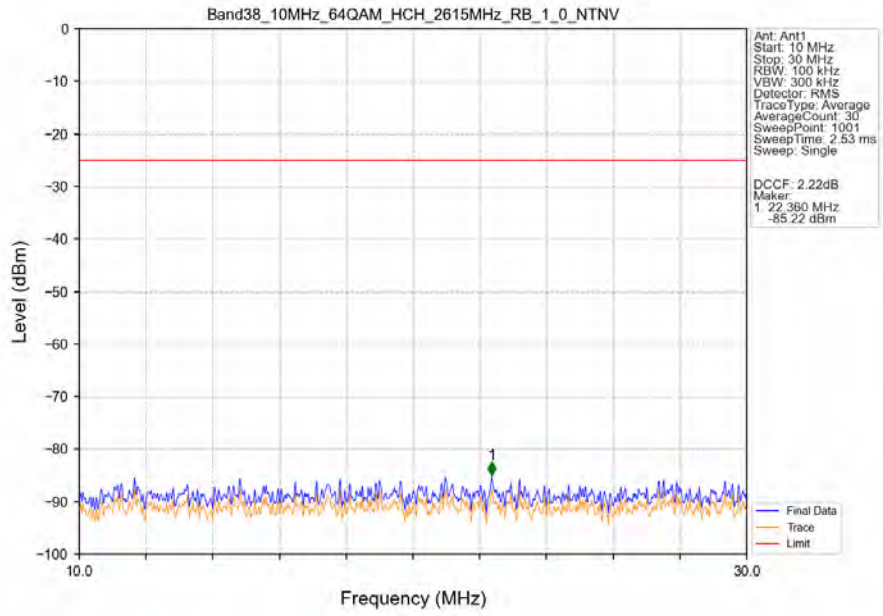
Band38_10MHz_64QAM_HCH_2615MHz_RB_1_0_NTNV



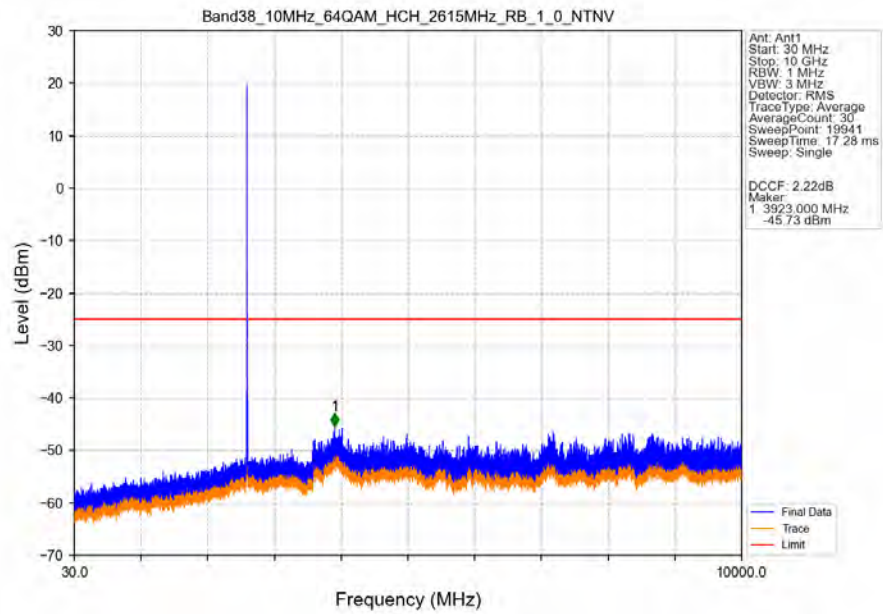
Band38_10MHz_64QAM_HCH_2615MHz_RB_1_0_NTNV



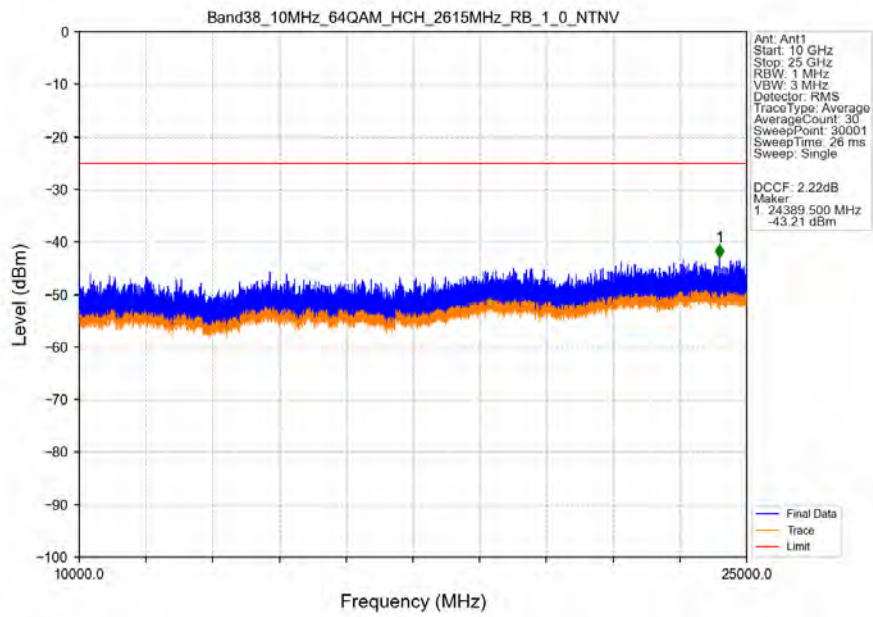
Band38_10MHz_64QAM_HCH_2615MHz_RB_1_0_NTNV



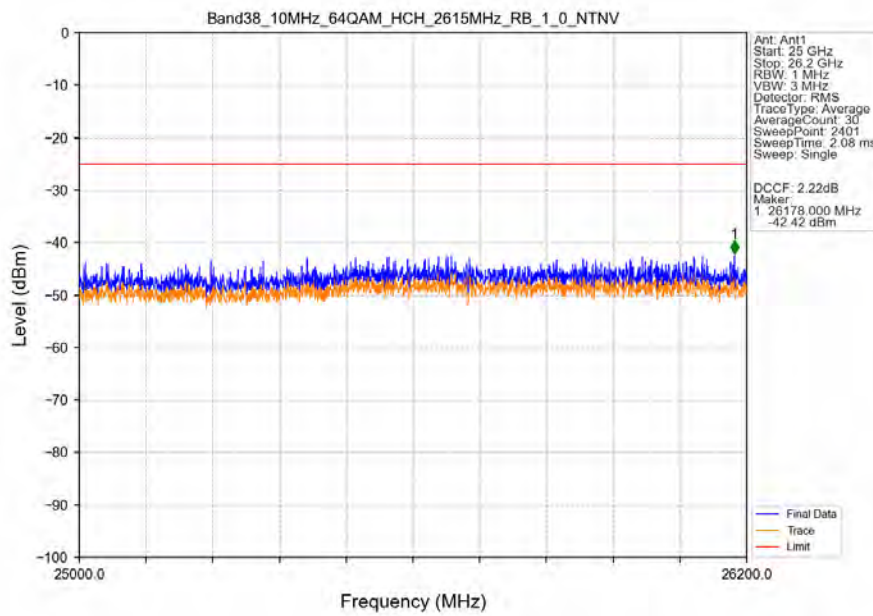
Band38_10MHz_64QAM_HCH_2615MHz_RB_1_0_NTNV



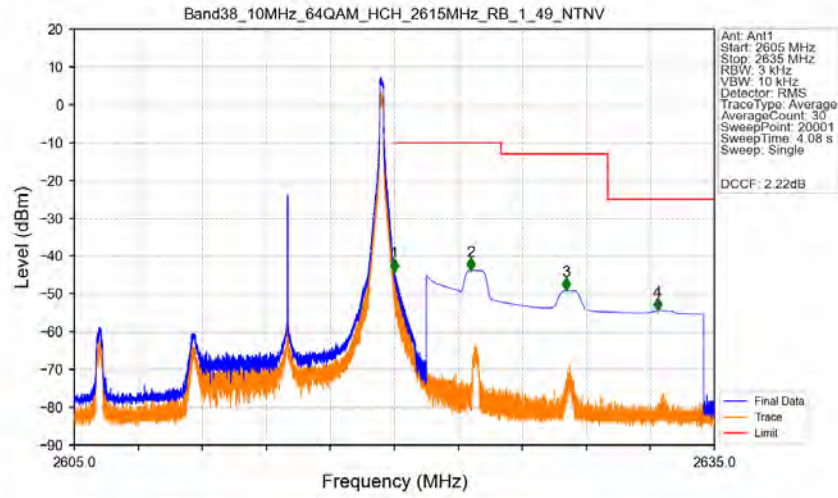
Band38_10MHz_64QAM_HCH_2615MHz_RB_1_0_NTNV



Band38_10MHz_64QAM_HCH_2615MHz_RB_1_0_NTNV

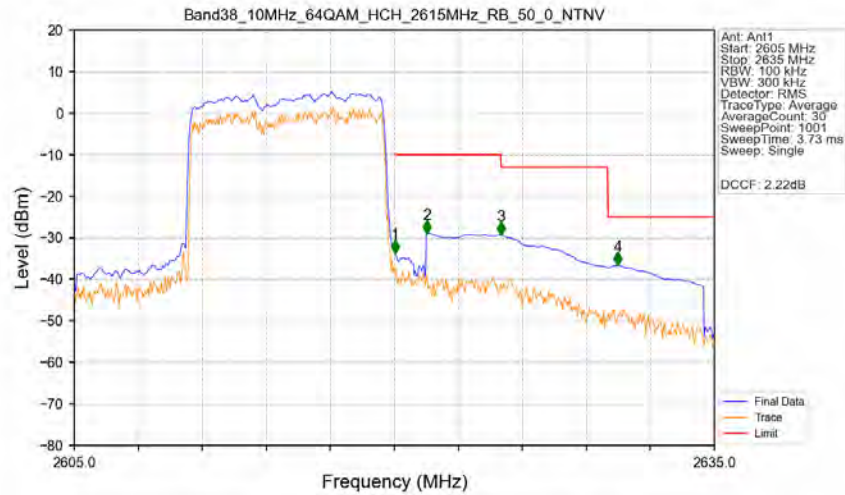


Band38 10MHz 64QAM HCH 2615MHz RB 1 49 NTNV



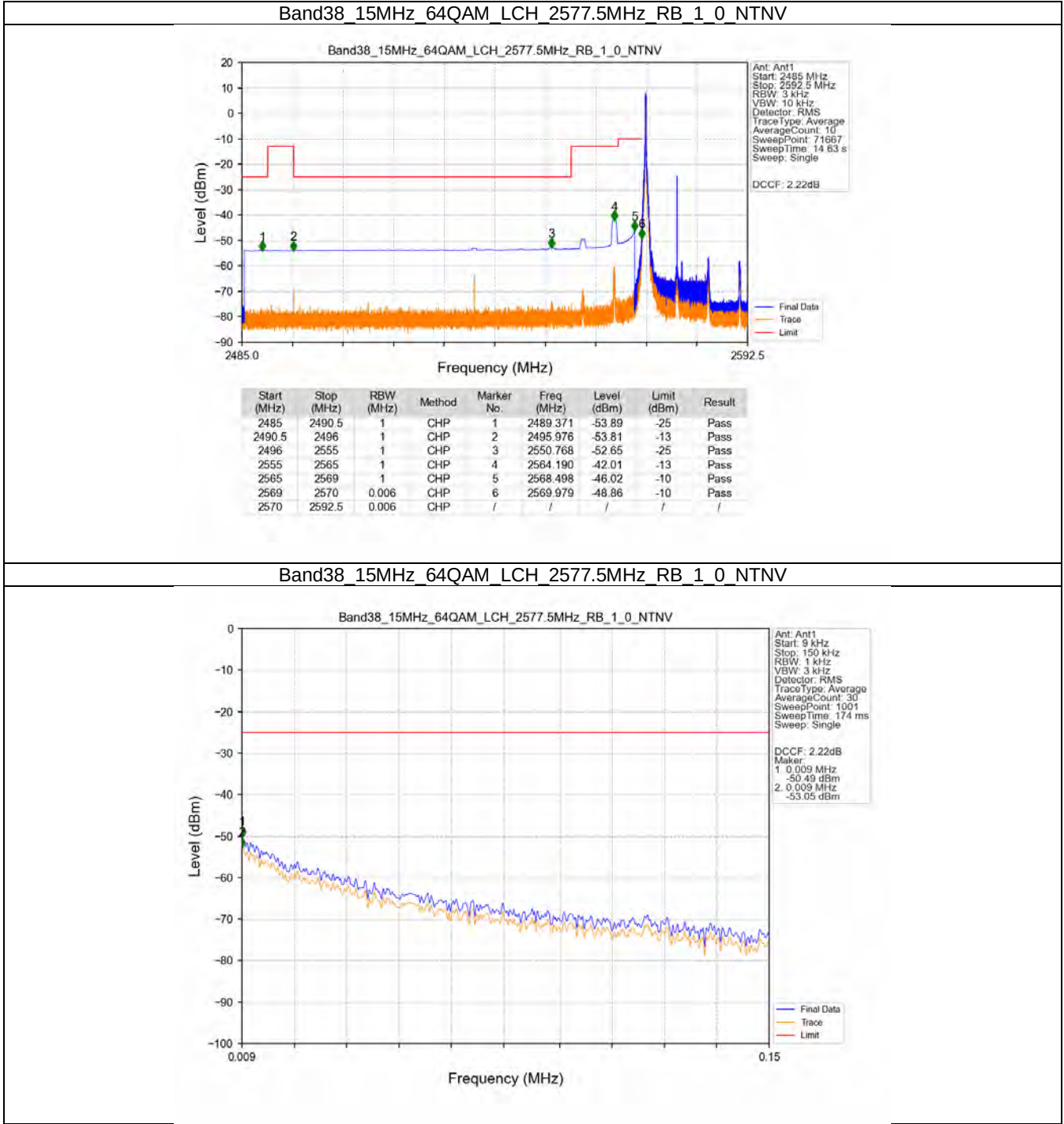
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.006	CHP	/	/	/	/	/
2620	2621	0.006	CHP	1	2620.001	-44.16	-10	Pass
2621	2625	1	CHP	2	2623.586	-43.80	-10	Pass
2625	2630	1	CHP	3	2628.062	-49.12	-13	Pass
2630	2635	1	CHP	4	2632.338	-54.47	-25	Pass

Band38 10MHz 64QAM HCH 2615MHz RB 50 0 NTNV

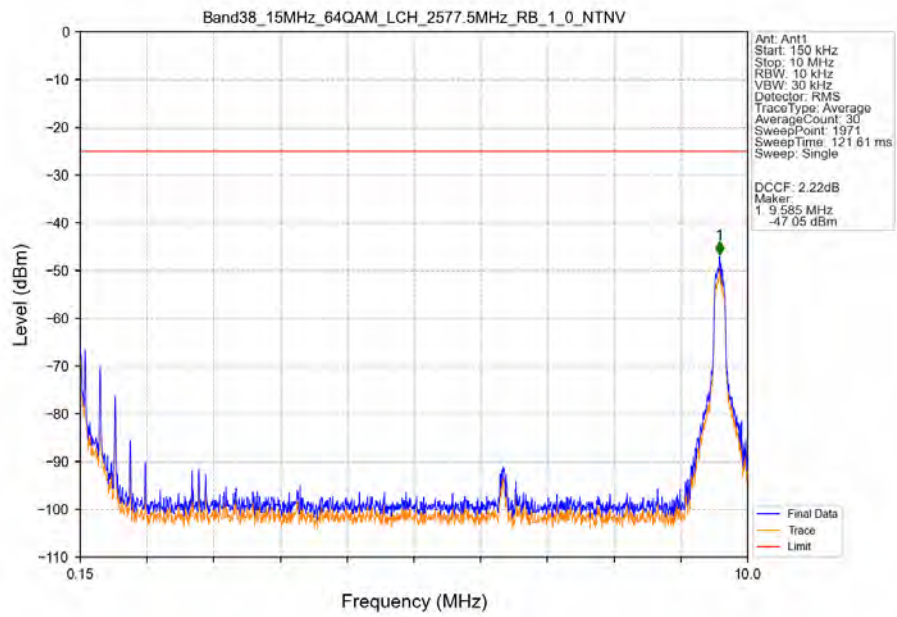


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.199	CHP	/	/	/	/	/
2620	2621	0.199	CHP	1	2620.030	-33.75	-10	Pass
2621	2625	1	CHP	2	2621.530	-28.88	-10	Pass
2625	2630	1	CHP	3	2625.010	-29.31	-13	Pass
2630	2635	1	CHP	4	2630.470	-36.66	-25	Pass

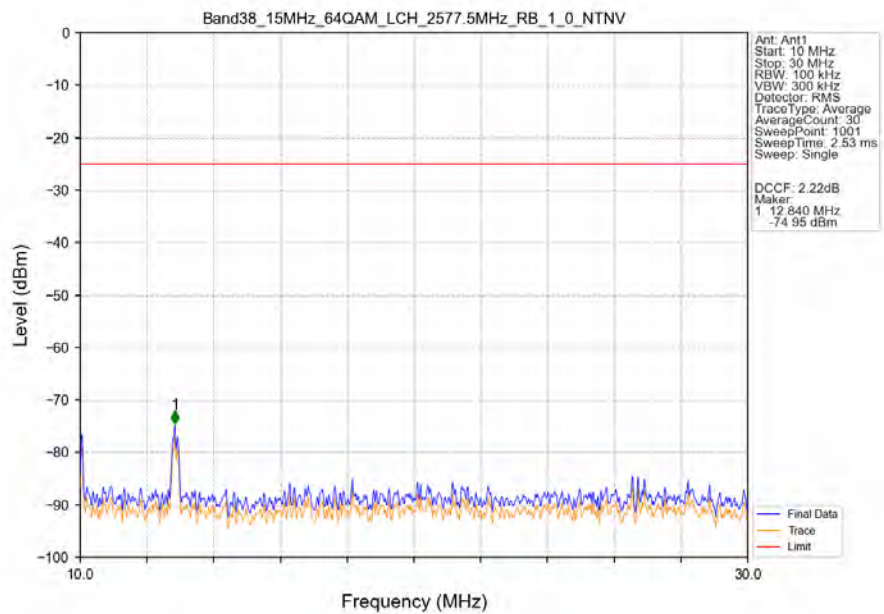
5.2.3 B38_15MHz



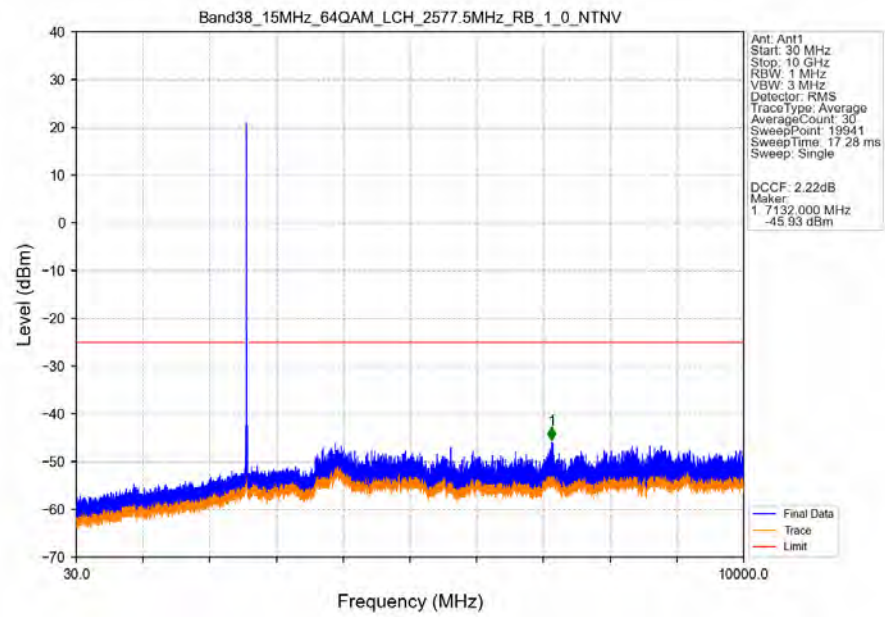
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_1_0_NTNV



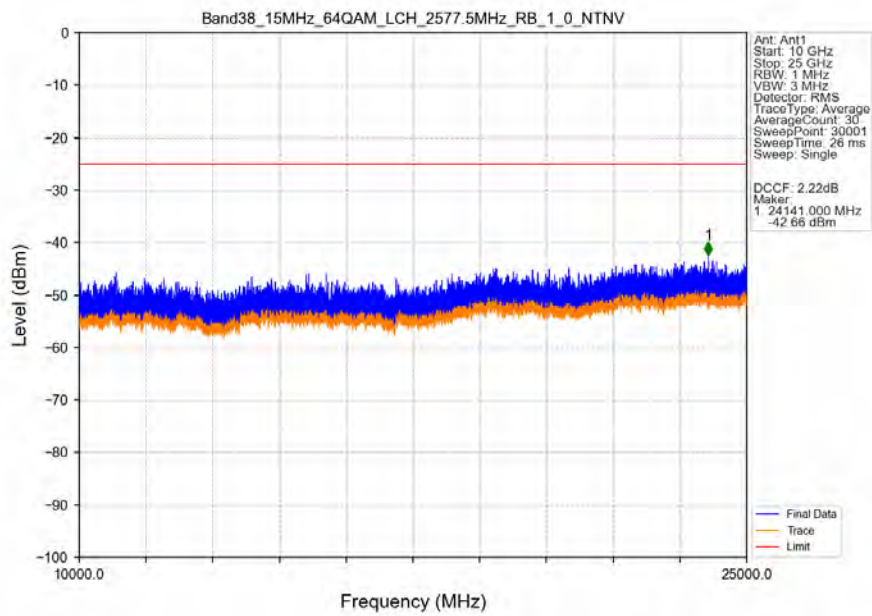
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_1_0_NTNV



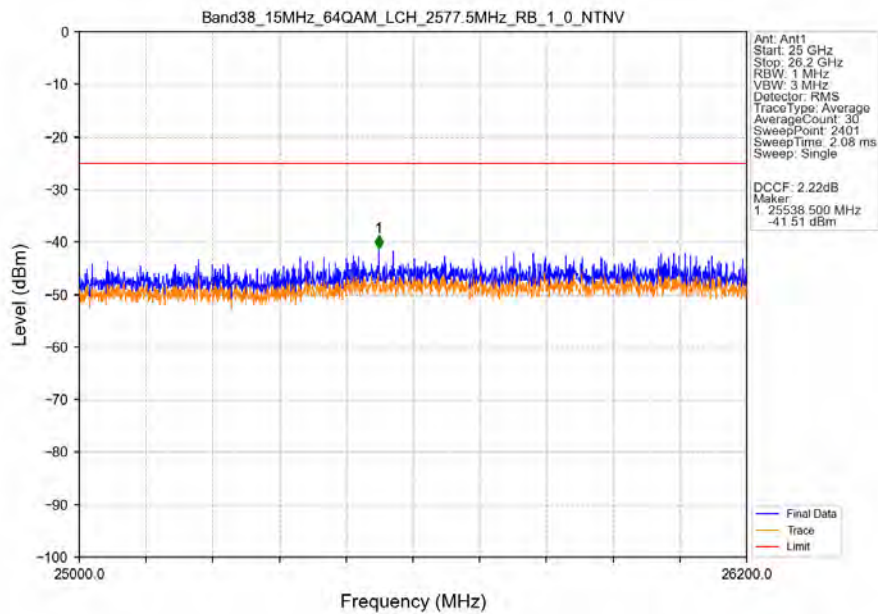
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_1_0_NTNV



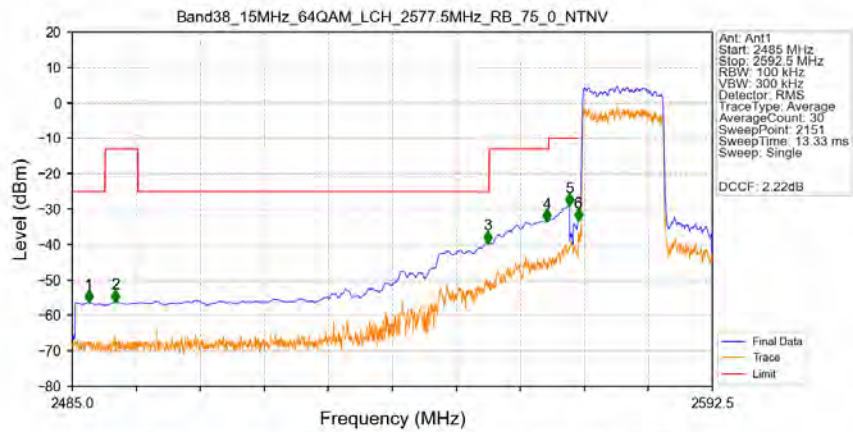
Band38_15MHz_64QAM_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_64QAM_LCH_2577.5MHz_RB_1_0_NTNV

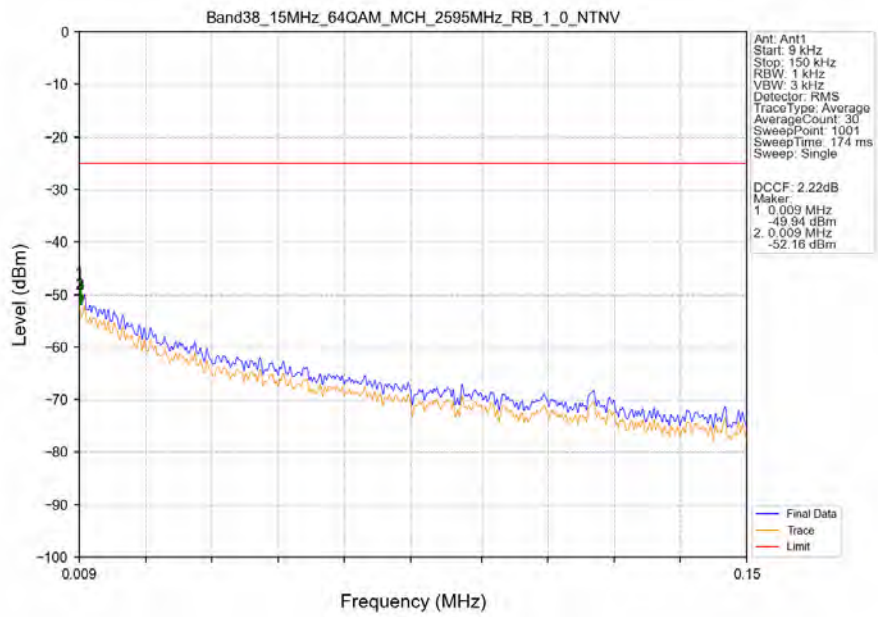


Band38_15MHz_64QAM_LCH_2577.5MHz_RB_75_0_NTNV

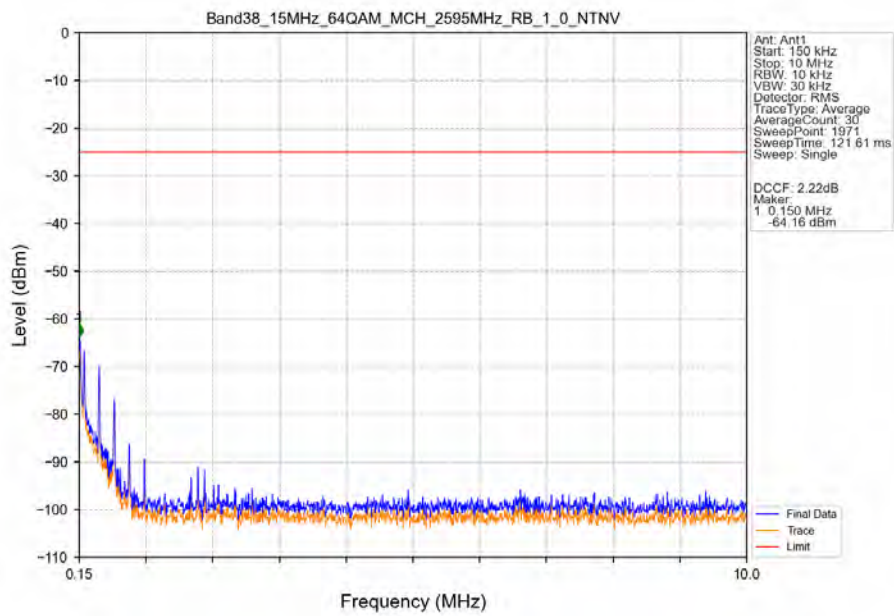


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.750	-56.21	-25	Pass
2490.5	2496	1	CHP	2	2492.300	-56.07	-13	Pass
2496	2555	1	CHP	3	2554.750	-39.40	-25	Pass
2555	2565	1	CHP	4	2564.700	-33.36	-13	Pass
2565	2569	1	CHP	5	2568.450	-28.86	-10	Pass
2569	2570	0.298	CHP	6	2569.950	-33.05	-10	Pass
2570	2592.5	0.298	CHP	/	/	/	/	/

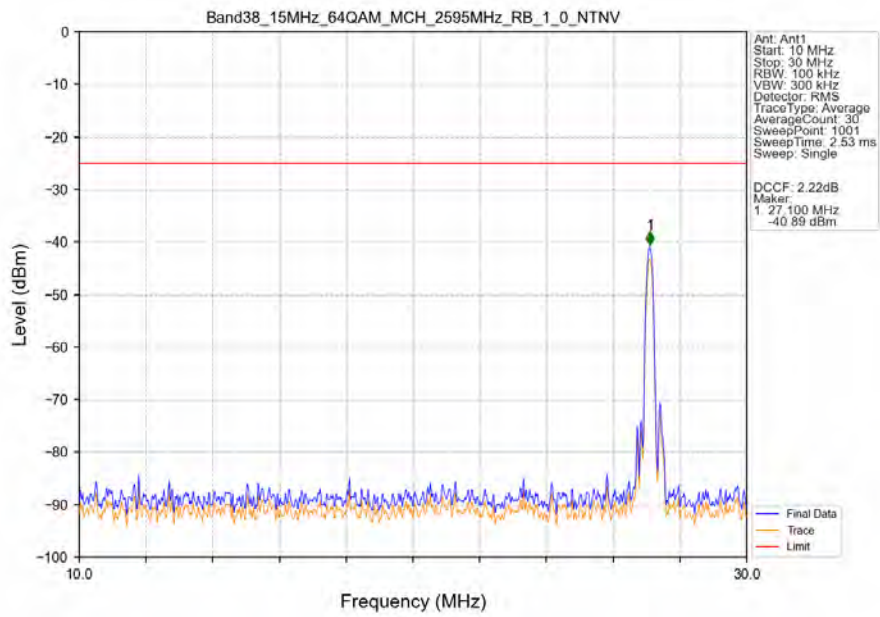
Band38_15MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



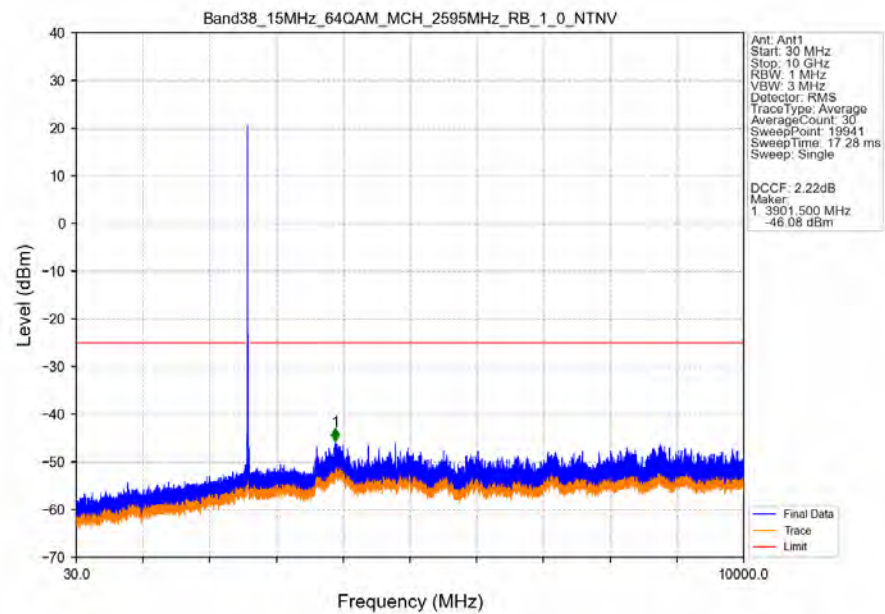
Band38_15MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



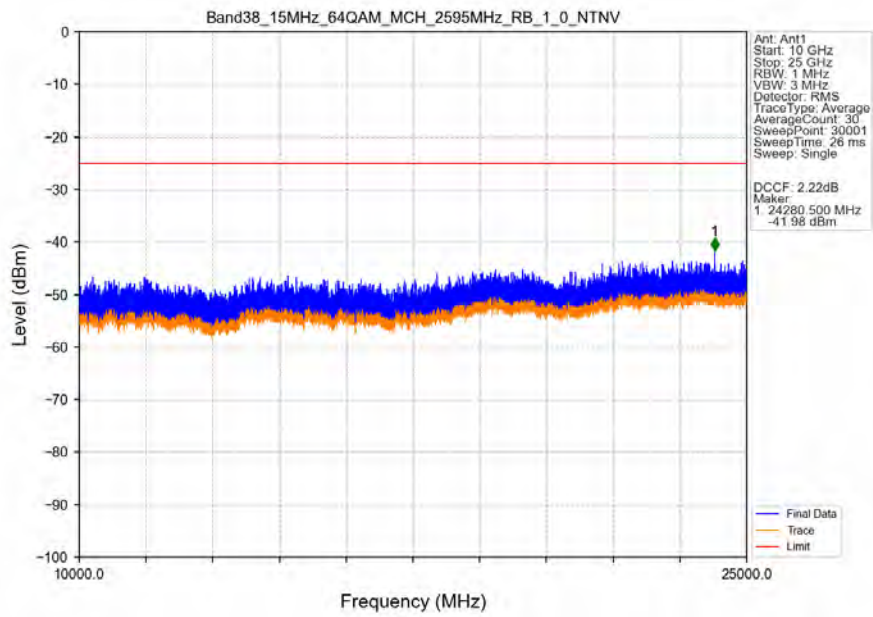
Band38_15MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



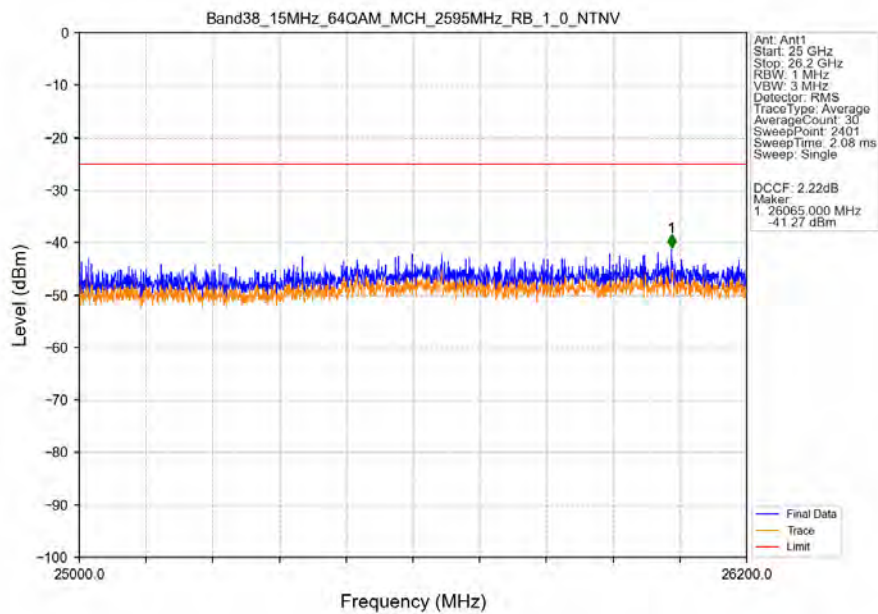
Band38_15MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



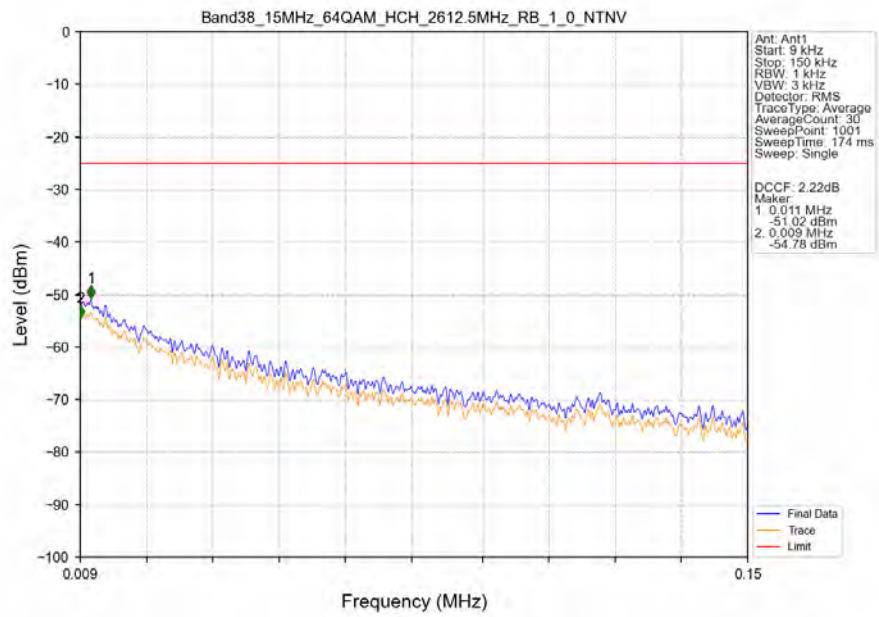
Band38_15MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



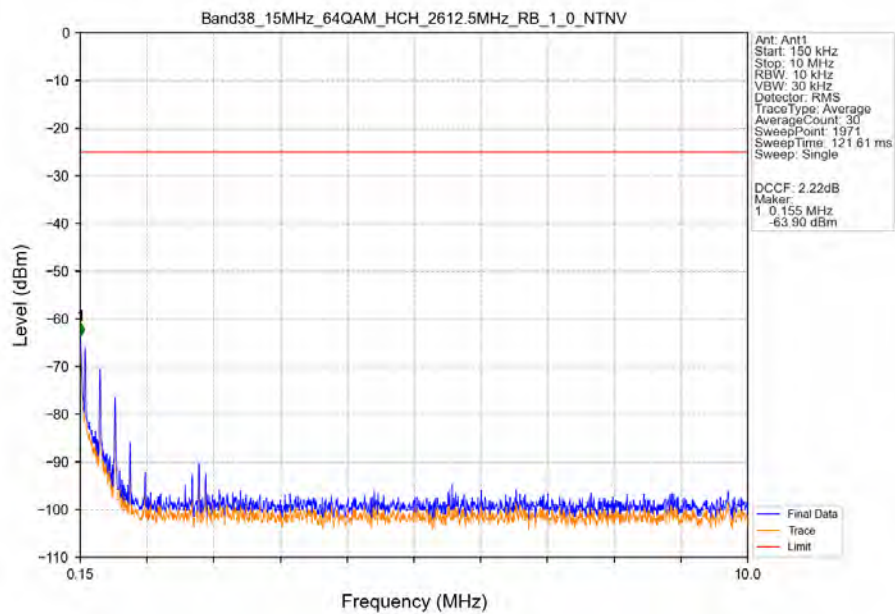
Band38_15MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



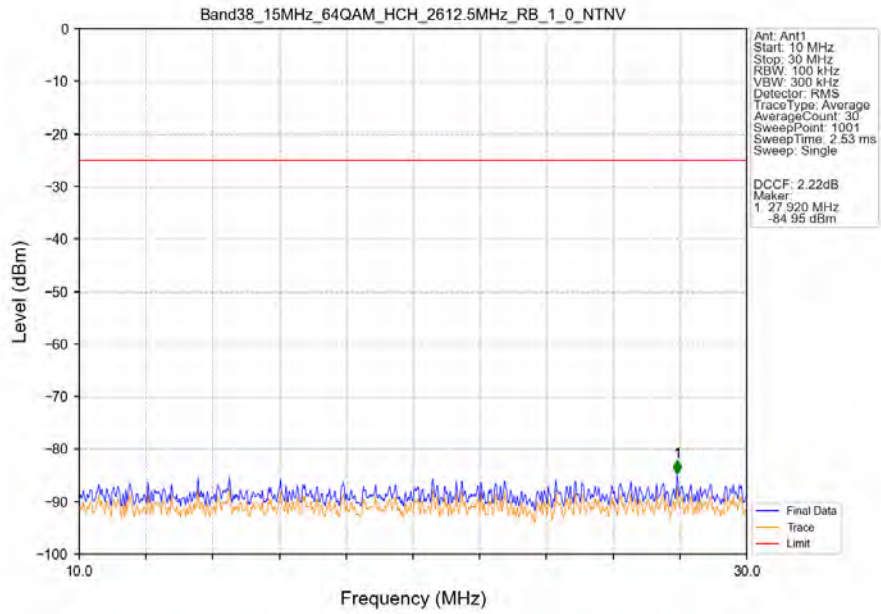
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV



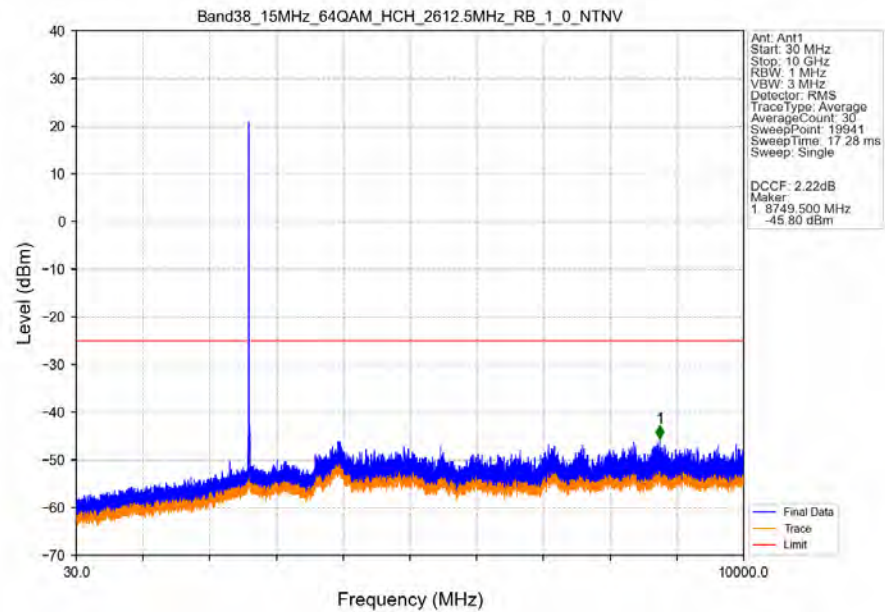
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV



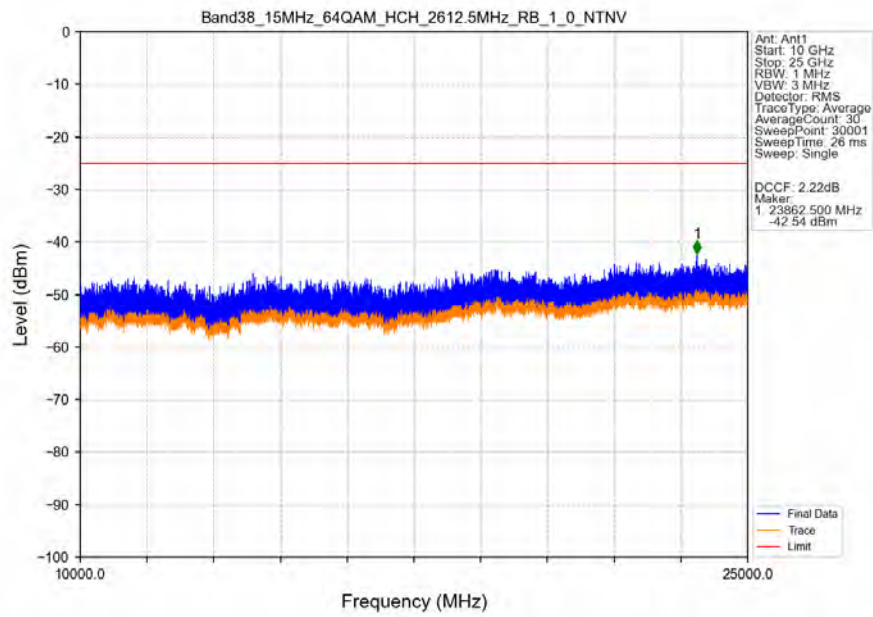
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV



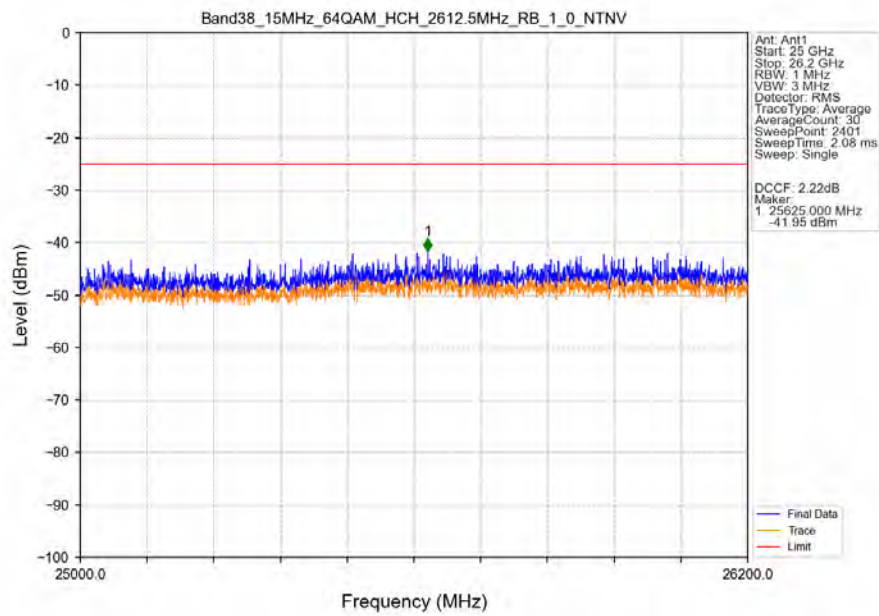
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV



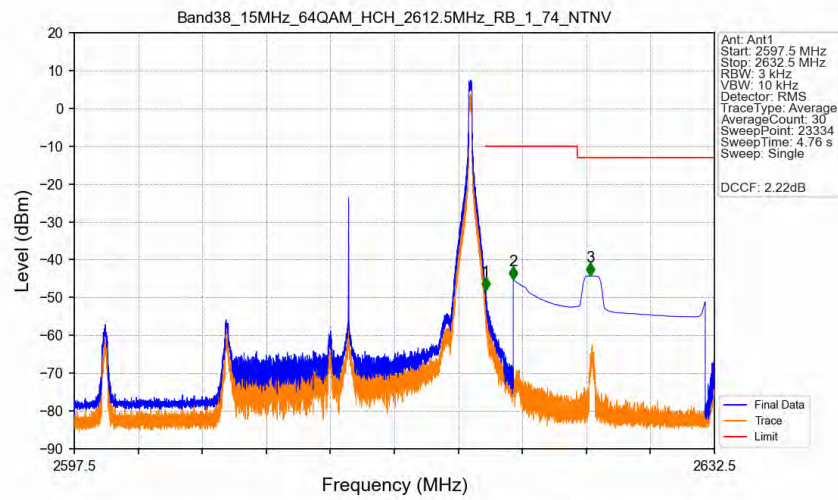
Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_0_NTNV

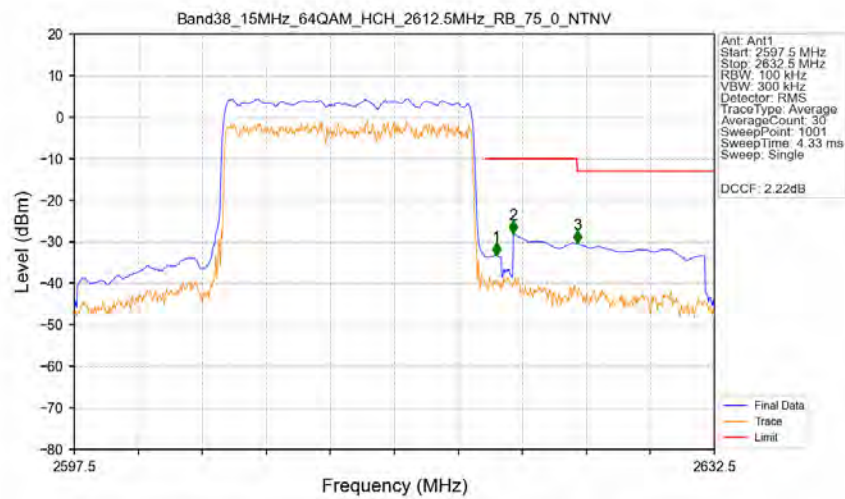


Band38_15MHz_64QAM_HCH_2612.5MHz_RB_1_74_NTNV



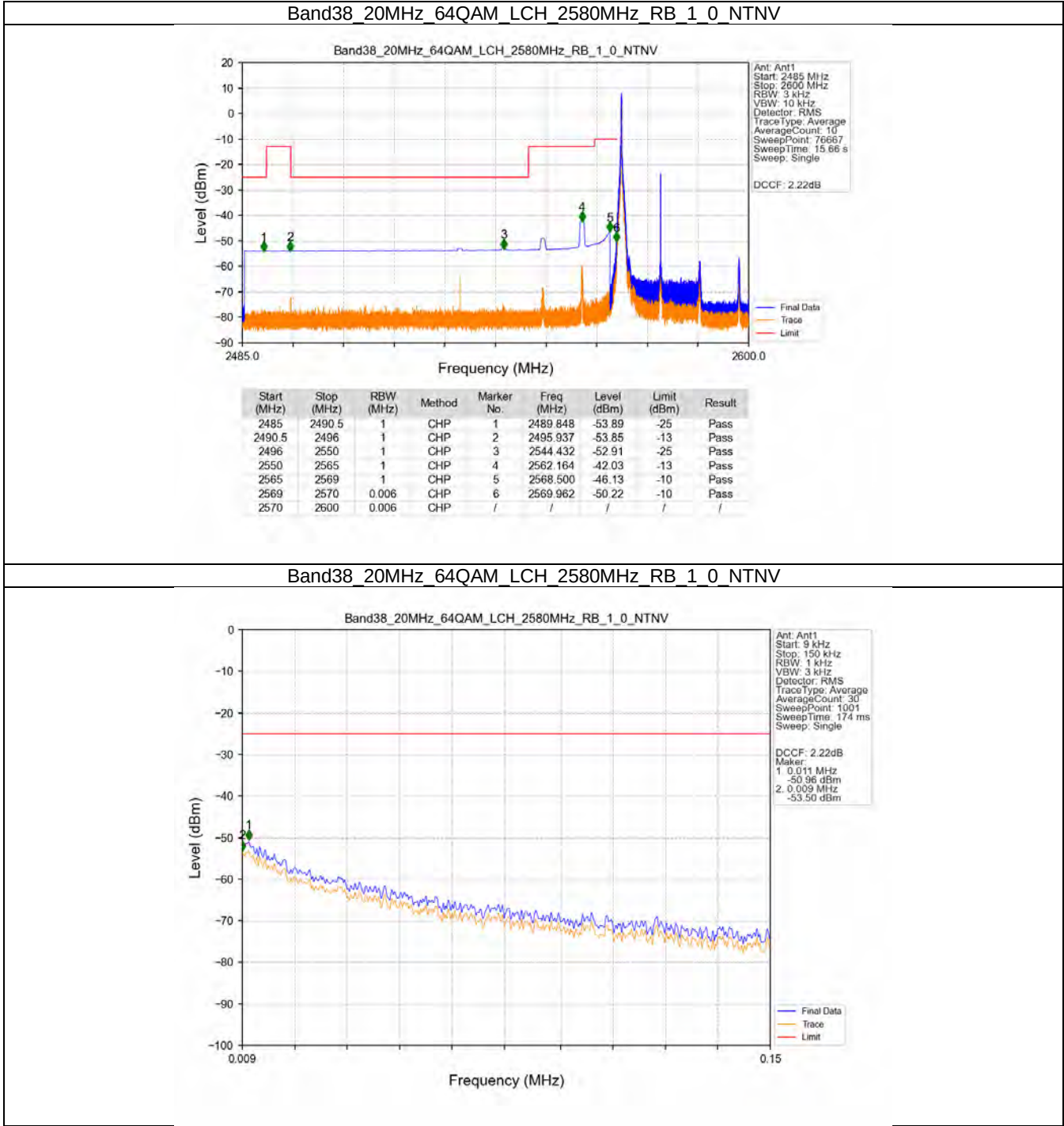
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.006	CHP	/	/	/	/	/
2620	2621	0.006	CHP	1	2620.000	-48.08	-10	Pass
2621	2625	1	CHP	2	2621.500	-45.22	-10	Pass
2625	2632.5	1	CHP	3	2625.723	-44.31	-13	Pass

Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV

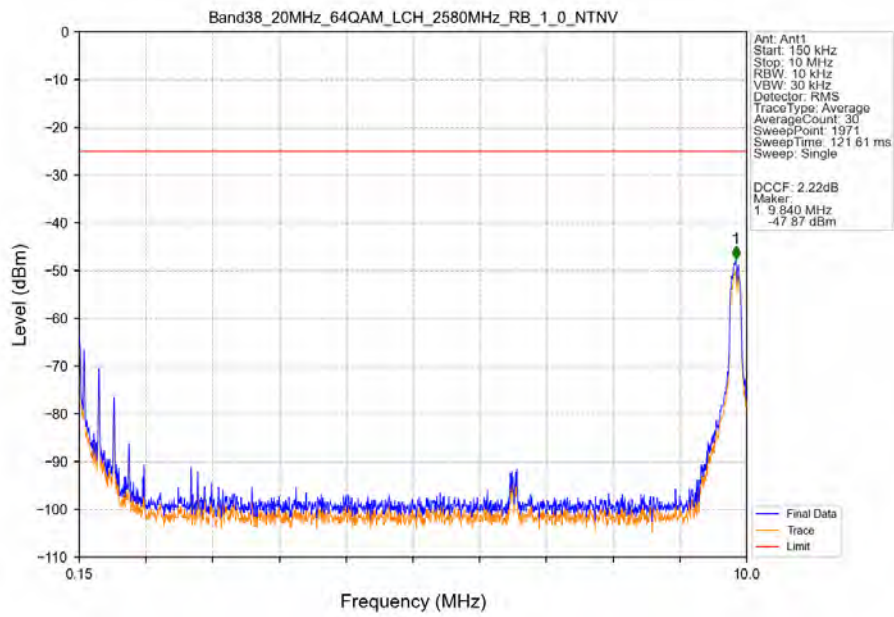


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2597.5	2620	0.298	CHP	/	/	/	/	/
2620	2621	0.298	CHP	1	2620.565	-33.23	-10	Pass
2621	2625	1	CHP	2	2621.510	-28.10	-10	Pass
2625	2632.5	1	CHP	3	2625.010	-30.41	-13	Pass

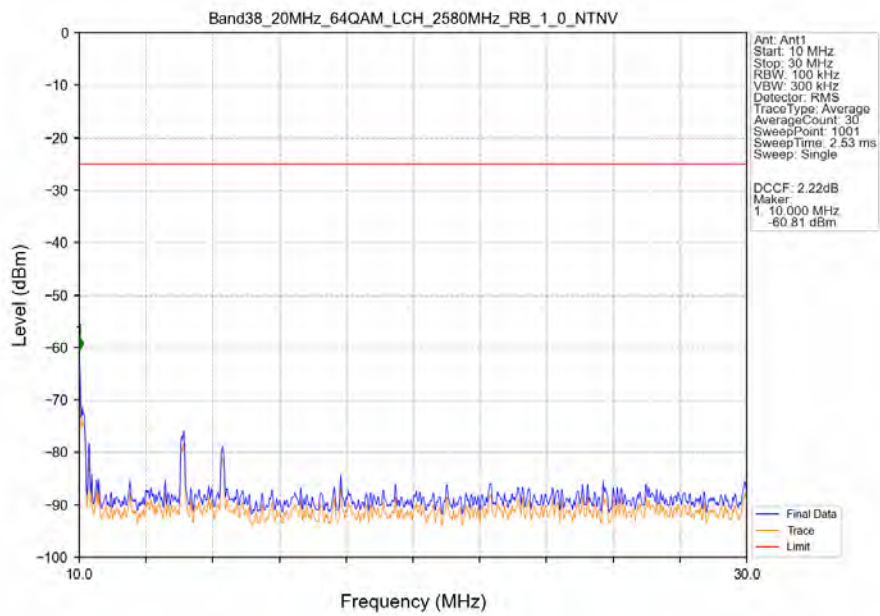
5.2.4 B38_20MHz



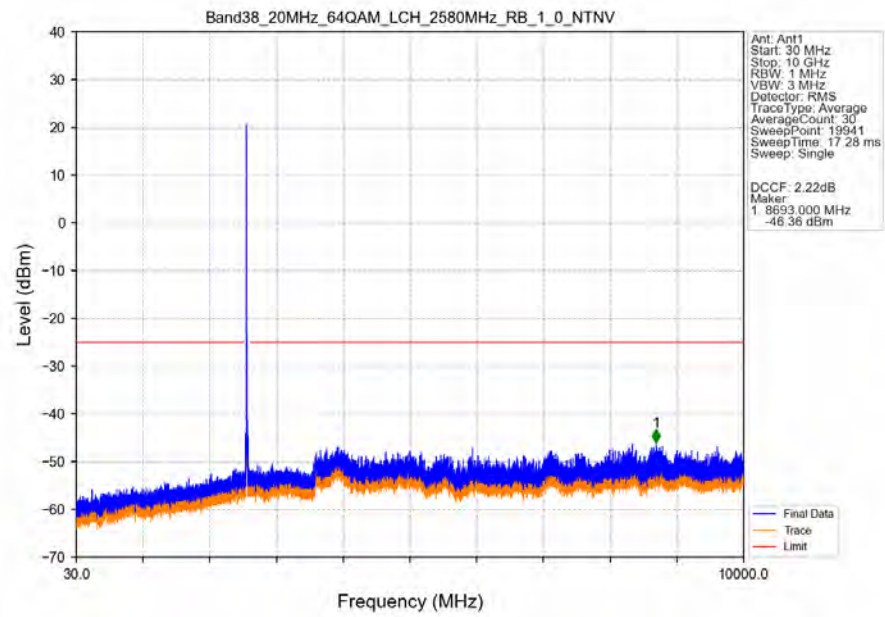
Band38_20MHz_64QAM_LCH_2580MHz_RB_1_0_NTNV



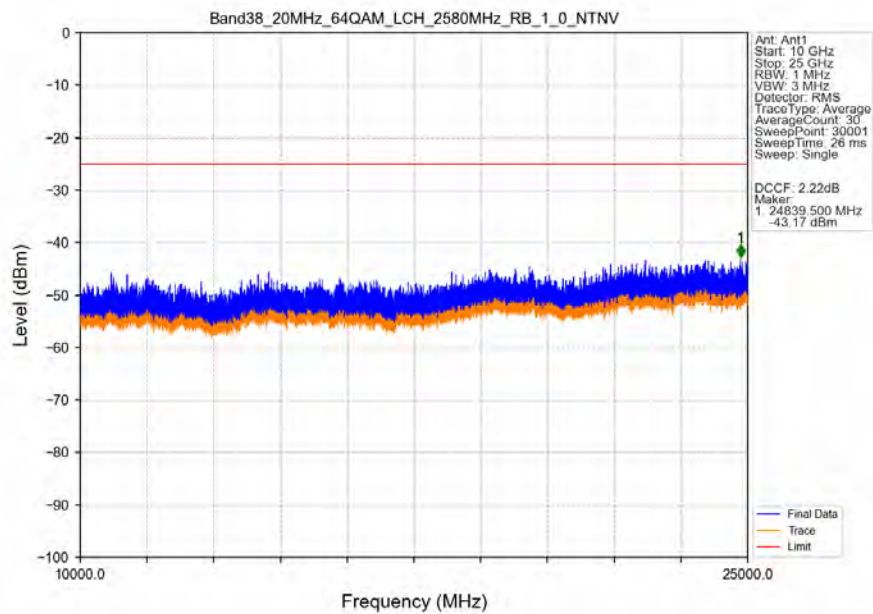
Band38_20MHz_64QAM_LCH_2580MHz_RB_1_0_NTNV



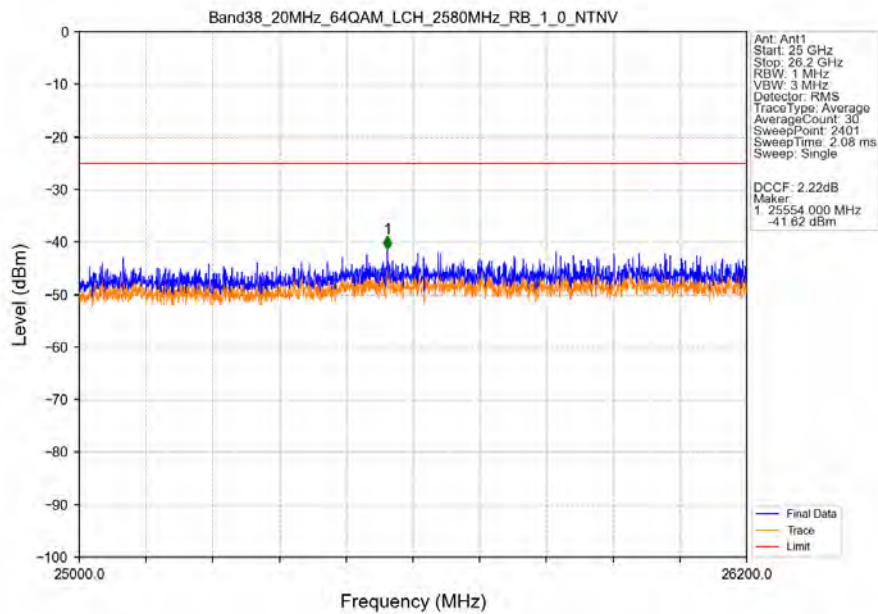
Band38_20MHz_64QAM_LCH_2580MHz_RB_1_0_NTNV



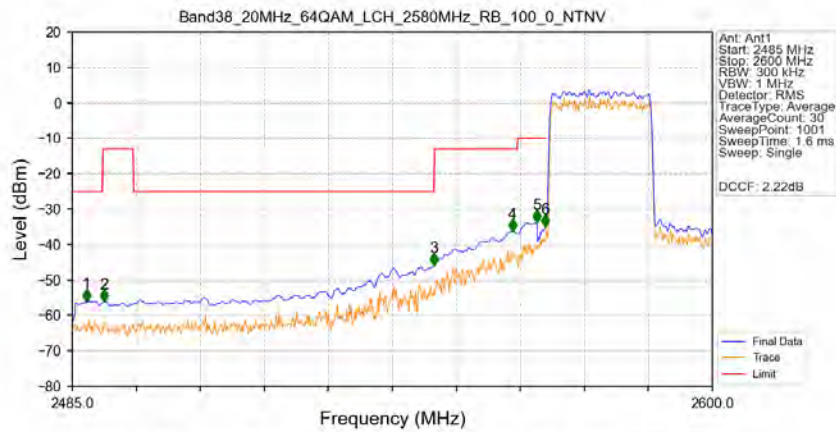
Band38_20MHz_64QAM_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_64QAM_LCH_2580MHz_RB_1_0_NTNV

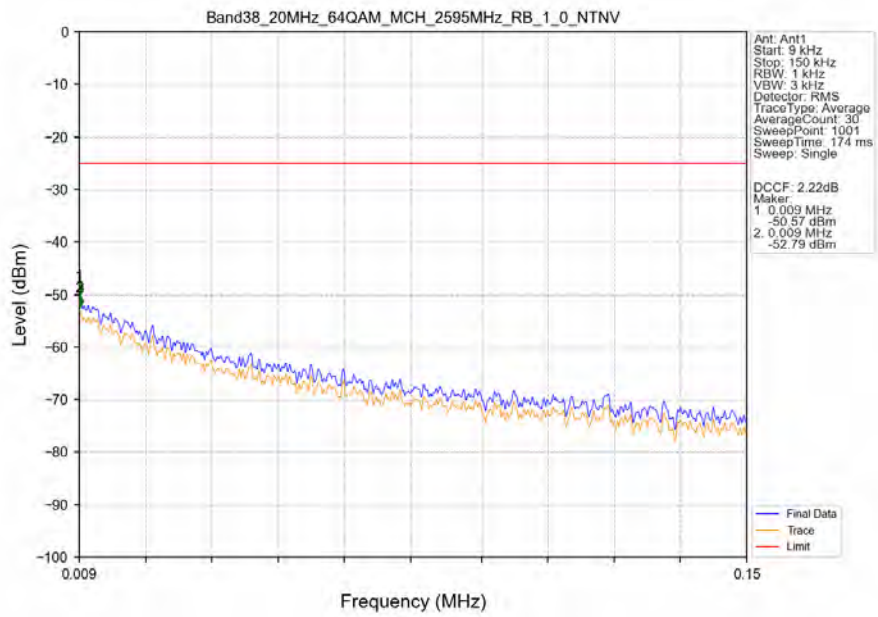


Band38_20MHz_64QAM_LCH_2580MHz_RB_100_0_NTNV

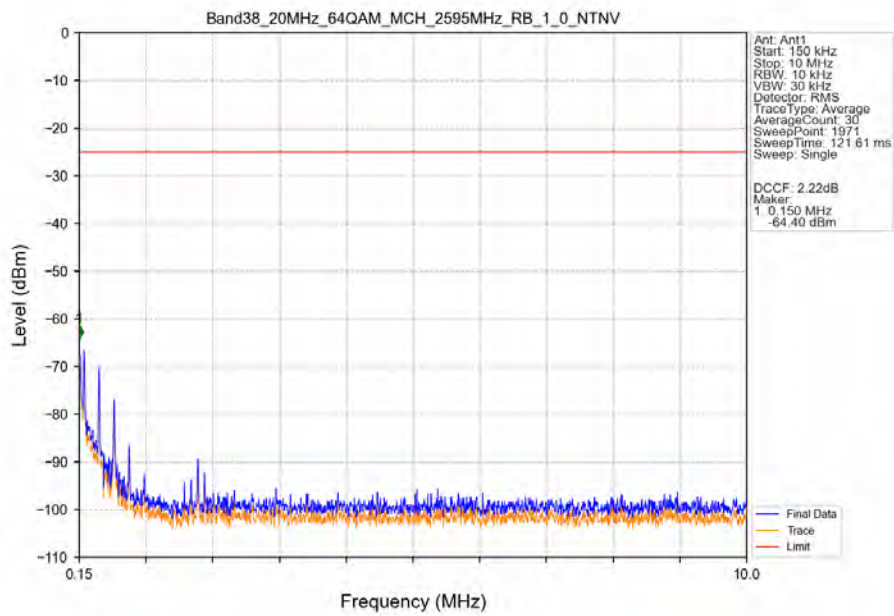


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.530	-55.87	-25	Pass
2490.5	2496	1	CHP	2	2490.750	-55.99	-13	Pass
2496	2550	1	CHP	3	2549.975	-45.66	-25	Pass
2550	2565	1	CHP	4	2564.120	-36.17	-13	Pass
2565	2569	1	CHP	5	2568.490	-33.47	-10	Pass
2569	2570	0.393	CHP	6	2569.985	-34.78	-10	Pass
2570	2600	0.393	CHP	/	/	/	/	/

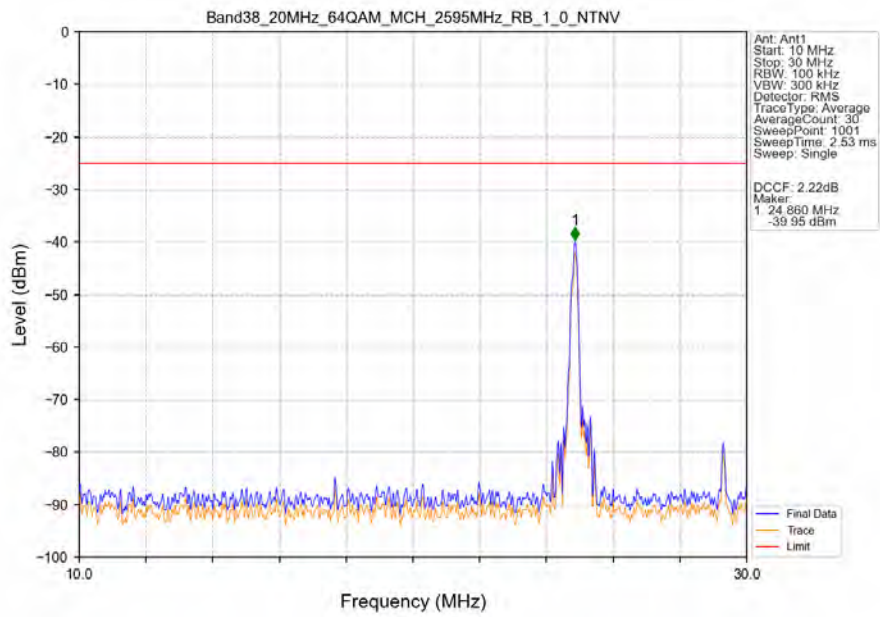
Band38_20MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



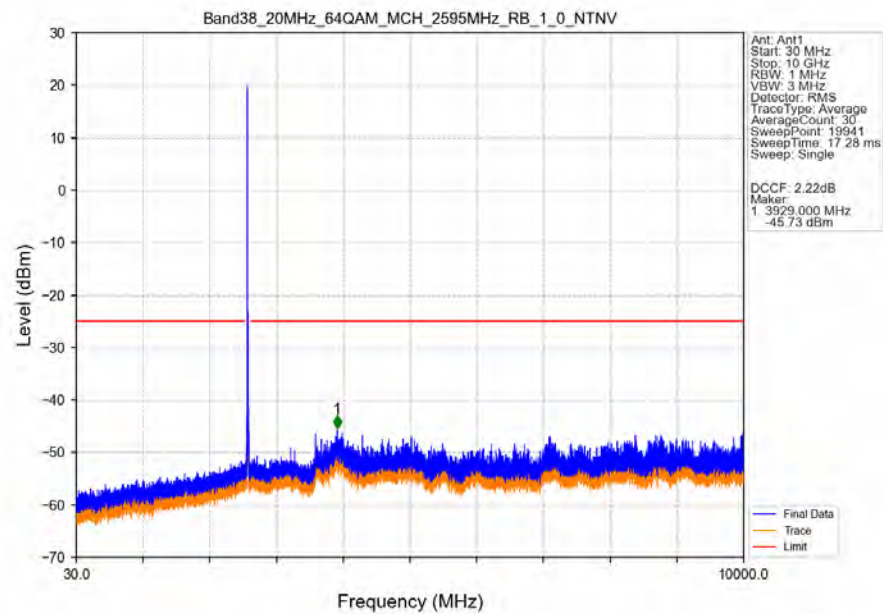
Band38_20MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



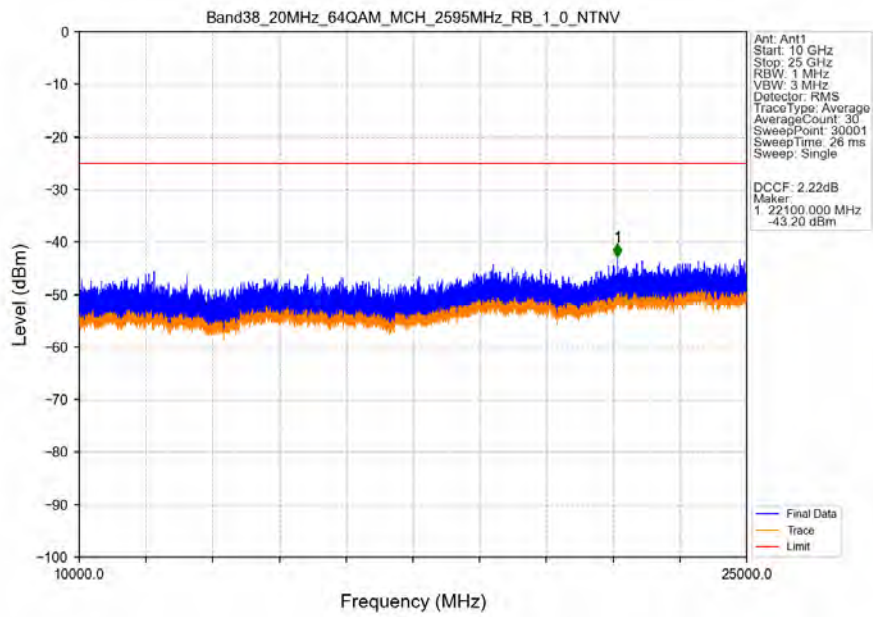
Band38_20MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



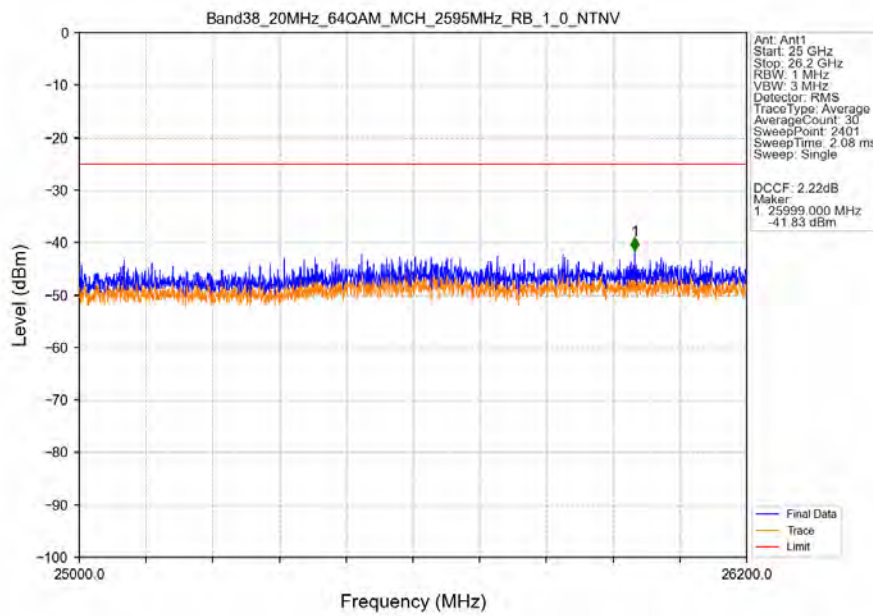
Band38_20MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



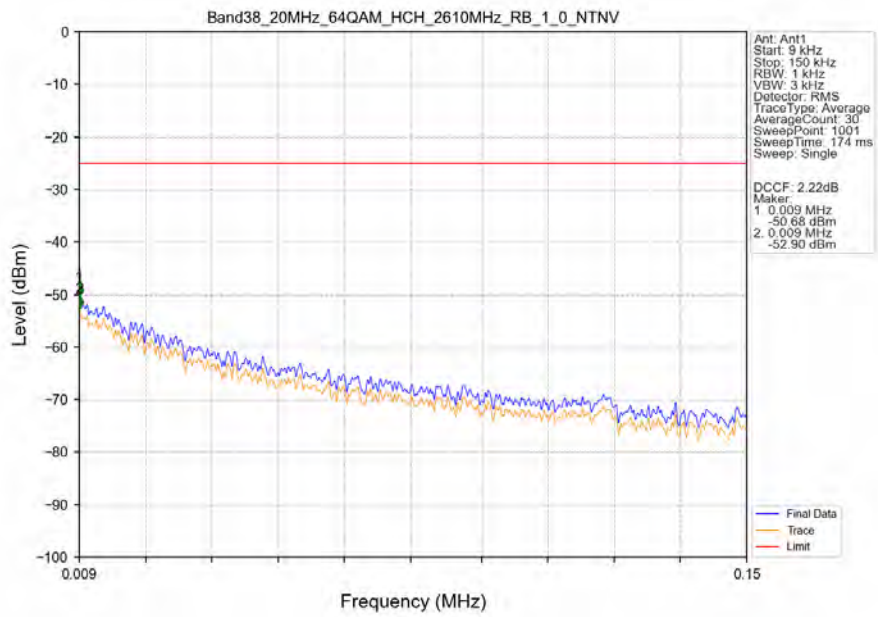
Band38_20MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



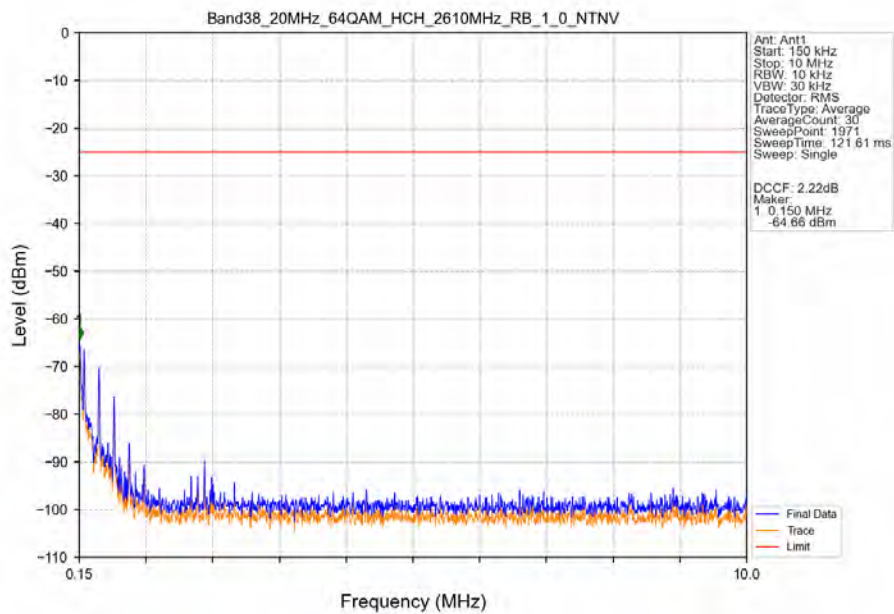
Band38_20MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



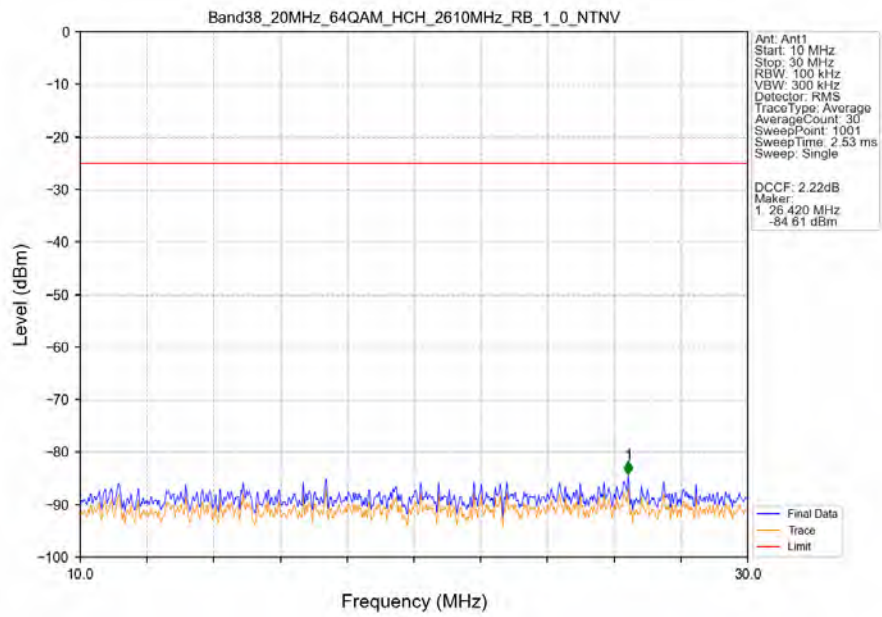
Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV



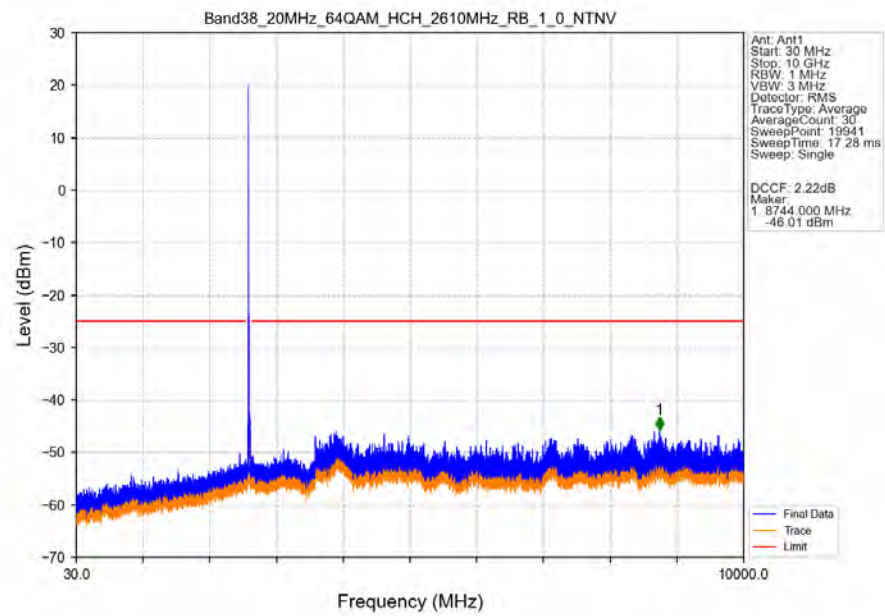
Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV



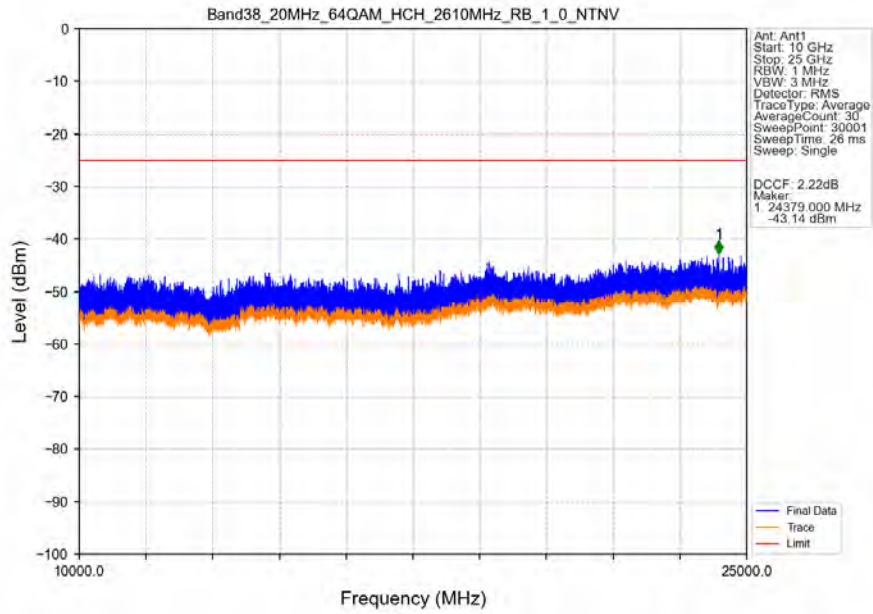
Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV



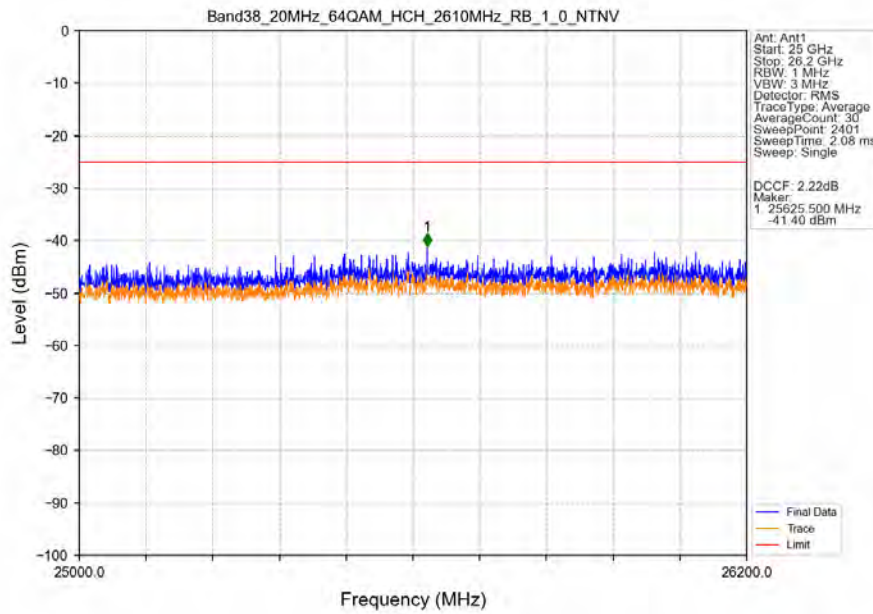
Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV



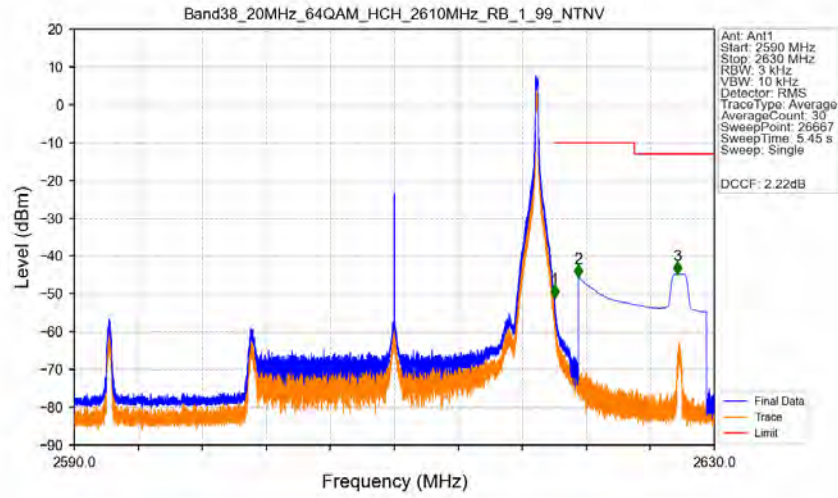
Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_64QAM_HCH_2610MHz_RB_1_0_NTNV

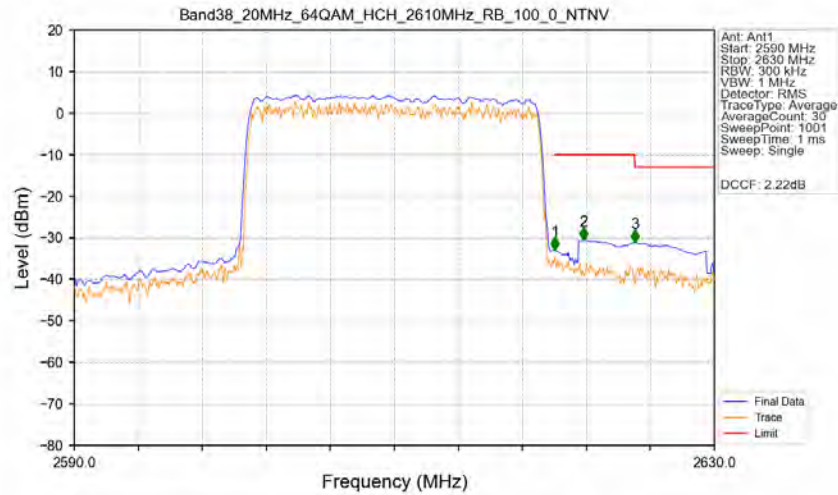


Band38_20MHz_64QAM_HCH_2610MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.006	CHP	1	2620.005	-51.09	-10	Pass
2620	2621	0.006	CHP	2	2621.501	-45.64	-10	Pass
2621	2625	1	CHP	3	2627.705	-44.81	-13	Pass

Band38_20MHz_64QAM_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2590	2620	0.394	CHP	1	2620.040	-32.95	-10	Pass
2620	2621	0.394	CHP	2	2621.840	-30.64	-10	Pass
2621	2625	1	CHP	3	2625.040	-31.15	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 38-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5142.0	-52.93	-25	-27.93	-58.54	4.62	10.23	Horizontal	Pass
7713.0	-59.71	-25	-34.71	-66.74	4.96	11.99	Horizontal	Pass
10284.0	-57.11	-25	-32.11	-64.68	5.51	13.08	Horizontal	Pass
5142.0	-57.61	-25	-32.61	-63.22	4.62	10.23	Vertical	Pass
7713.0	-55.79	-25	-30.79	-62.82	4.96	11.99	Vertical	Pass
10284.0	-56.58	-25	-31.58	-64.15	5.51	13.08	Vertical	Pass

LTE Band 38-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5172.0	-53.95	-25	-28.95	-59.57	4.63	10.25	Horizontal	Pass
7758.0	-59.47	-25	-34.47	-66.55	4.96	12.04	Horizontal	Pass
10344.0	-56.64	-25	-31.64	-64.21	5.52	13.09	Horizontal	Pass
5172.0	-60.21	-25	-35.21	-65.83	4.63	10.25	Vertical	Pass
7758.0	-56.88	-25	-31.88	-63.96	4.96	12.04	Vertical	Pass
10344.0	-56.55	-25	-31.55	-64.12	5.52	13.09	Vertical	Pass

LTE Band 38-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5202.0	-55.25	-25	-30.25	-60.89	4.63	10.27	Horizontal	Pass
7803.0	-59.33	-25	-34.33	-66.47	4.96	12.1	Horizontal	Pass
10404.0	-56.32	-25	-31.32	-63.9	5.52	13.1	Horizontal	Pass
5202.0	-61.1	-25	-36.1	-66.74	4.63	10.27	Vertical	Pass
7803.0	-55.78	-25	-30.78	-62.92	4.96	12.1	Vertical	Pass
10404.0	-56.7	-25	-31.7	-64.28	5.52	13.1	Vertical	Pass