

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B41_5MHz_EIRP

Band: 41 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2498.5	1	0	22.07	3.00	25.07	<=33.01	Pass
			13	21.70	3.00	24.70	<=33.01	Pass
			24	21.84	3.00	24.84	<=33.01	Pass
		12	0	20.96	3.00	23.96	<=33.01	Pass
			6	20.94	3.00	23.94	<=33.01	Pass
			13	20.98	3.00	23.98	<=33.01	Pass
		25	0	20.91	3.00	23.91	<=33.01	Pass
	2593	1	0	21.54	3.00	24.54	<=33.01	Pass
			13	21.79	3.00	24.79	<=33.01	Pass
			24	21.74	3.00	24.74	<=33.01	Pass
		12	0	20.70	3.00	23.70	<=33.01	Pass
			6	20.82	3.00	23.82	<=33.01	Pass
			13	20.80	3.00	23.80	<=33.01	Pass
		25	0	20.84	3.00	23.84	<=33.01	Pass
	2687.5	1	0	22.08	3.00	25.08	<=33.01	Pass
			13	21.69	3.00	24.69	<=33.01	Pass
			24	22.14	3.00	25.14	<=33.01	Pass
		12	0	20.90	3.00	23.90	<=33.01	Pass
			6	20.80	3.00	23.80	<=33.01	Pass
			13	20.90	3.00	23.90	<=33.01	Pass
		25	0	20.83	3.00	23.83	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B41_10MHz_EIRP

Band: 41 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2501	1	0	21.37	3.00	24.37	<=33.01	Pass
			25	22.09	3.00	25.09	<=33.01	Pass
			49	22.21	3.00	25.21	<=33.01	Pass
		25	0	20.90	3.00	23.90	<=33.01	Pass
			13	20.90	3.00	23.90	<=33.01	Pass
			25	20.94	3.00	23.94	<=33.01	Pass
		50	0	20.97	3.00	23.97	<=33.01	Pass
	2593	1	0	22.05	3.00	25.05	<=33.01	Pass
			25	21.92	3.00	24.92	<=33.01	Pass
			49	22.00	3.00	25.00	<=33.01	Pass
		25	0	20.83	3.00	23.83	<=33.01	Pass
			13	20.83	3.00	23.83	<=33.01	Pass
			25	20.83	3.00	23.83	<=33.01	Pass
		50	0	20.80	3.00	23.80	<=33.01	Pass
	2685	1	0	21.48	3.00	24.48	<=33.01	Pass
			25	21.57	3.00	24.57	<=33.01	Pass
			49	21.92	3.00	24.92	<=33.01	Pass

		25	0	20.89	3.00	23.89	<=33.01	Pass
			13	20.79	3.00	23.79	<=33.01	Pass
			25	20.90	3.00	23.90	<=33.01	Pass
		50	0	20.91	3.00	23.91	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B41_15MHz_EIRP

Band: 41 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2503.5	1	0	22.16	3.00	25.16	<=33.01	Pass
			38	22.06	3.00	25.06	<=33.01	Pass
			74	22.12	3.00	25.12	<=33.01	Pass
		36	0	20.98	3.00	23.98	<=33.01	Pass
			18	21.04	3.00	24.04	<=33.01	Pass
			39	21.01	3.00	24.01	<=33.01	Pass
		75	0	21.00	3.00	24.00	<=33.01	Pass
	2593	1	0	22.12	3.00	25.12	<=33.01	Pass
			38	22.13	3.00	25.13	<=33.01	Pass
			74	21.81	3.00	24.81	<=33.01	Pass
		36	0	20.79	3.00	23.79	<=33.01	Pass
			18	20.84	3.00	23.84	<=33.01	Pass
			39	20.85	3.00	23.85	<=33.01	Pass
		75	0	20.84	3.00	23.84	<=33.01	Pass
	2682.5	1	0	21.63	3.00	24.63	<=33.01	Pass
			38	21.95	3.00	24.95	<=33.01	Pass
			74	21.96	3.00	24.96	<=33.01	Pass
		36	0	20.74	3.00	23.74	<=33.01	Pass
			18	20.80	3.00	23.80	<=33.01	Pass
			39	20.90	3.00	23.90	<=33.01	Pass
		75	0	20.87	3.00	23.87	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B41_20MHz_EIRP

Band: 41 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
64QAM	2506	1	0	22.02	3.00	25.02	<=33.01	Pass
			50	21.84	3.00	24.84	<=33.01	Pass
			99	21.68	3.00	24.68	<=33.01	Pass
		50	0	20.97	3.00	23.97	<=33.01	Pass
			25	21.01	3.00	24.01	<=33.01	Pass
			50	21.05	3.00	24.05	<=33.01	Pass
		100	0	20.99	3.00	23.99	<=33.01	Pass
	2593	1	0	21.80	3.00	24.80	<=33.01	Pass
			50	21.79	3.00	24.79	<=33.01	Pass
			99	21.70	3.00	24.70	<=33.01	Pass
		50	0	20.86	3.00	23.86	<=33.01	Pass
			25	20.84	3.00	23.84	<=33.01	Pass
			50	20.86	3.00	23.86	<=33.01	Pass
		100	0	20.81	3.00	23.81	<=33.01	Pass

	2680	1	0	21.68	3.00	24.68	<=33.01	Pass
			50	21.83	3.00	24.83	<=33.01	Pass
			99	21.89	3.00	24.89	<=33.01	Pass
		50	0	20.88	3.00	23.88	<=33.01	Pass
			25	20.89	3.00	23.89	<=33.01	Pass
			50	20.93	3.00	23.93	<=33.01	Pass
		100	0	20.89	3.00	23.89	<=33.01	Pass
		Note1: EIRP=Conducted Power+Antenna Gain						

2. Frequency Stability

2.1 Test Result

2.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2498.5	25	0	20	3.27	4.978	0.0020	-2.5 to 2.5	Pass
					3.85	3.748	0.0015	-2.5 to 2.5	Pass
					4.43	2.546	0.0010	-2.5 to 2.5	Pass
				-30	3.85	4.621	0.0018	-2.5 to 2.5	Pass
				-20	3.85	1.817	0.0007	-2.5 to 2.5	Pass
				-10	3.85	8.383	0.0034	-2.5 to 2.5	Pass
				0	3.85	4.907	0.0020	-2.5 to 2.5	Pass
				10	3.85	1.588	0.0006	-2.5 to 2.5	Pass
				30	3.85	4.077	0.0016	-2.5 to 2.5	Pass
				40	3.85	6.351	0.0025	-2.5 to 2.5	Pass
	2593	25	0	50	3.85	10.729	0.0043	-2.5 to 2.5	Pass
				20	3.27	4.478	0.0017	-2.5 to 2.5	Pass
					3.85	10.142	0.0039	-2.5 to 2.5	Pass
					4.43	1.245	0.0005	-2.5 to 2.5	Pass
				-30	3.85	9.198	0.0035	-2.5 to 2.5	Pass
				-20	3.85	10.915	0.0042	-2.5 to 2.5	Pass
				-10	3.85	5.121	0.0020	-2.5 to 2.5	Pass
				0	3.85	2.789	0.0011	-2.5 to 2.5	Pass
				10	3.85	2.961	0.0011	-2.5 to 2.5	Pass
				30	3.85	5.293	0.0020	-2.5 to 2.5	Pass
	2687.5	25	0	40	3.85	3.719	0.0014	-2.5 to 2.5	Pass
				50	3.85	-2.890	-0.0011	-2.5 to 2.5	Pass
				20	3.27	-4.449	-0.0017	-2.5 to 2.5	Pass
					3.85	-7.811	-0.0029	-2.5 to 2.5	Pass
					4.43	-10.314	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-1.760	-0.0007	-2.5 to 2.5	Pass
				-20	3.85	-2.017	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-7.939	-0.0030	-2.5 to 2.5	Pass
				0	3.85	-7.310	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-8.869	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-5.035	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-3.920	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-4.120	-0.0015	-2.5 to 2.5	Pass

2.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2501	50	0	20	3.27	-8.726	-0.0035	-2.5 to 2.5	Pass
					3.85	-9.012	-0.0036	-2.5 to 2.5	Pass
					4.43	-4.435	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-7.095	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-8.254	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-14.834	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-5.965	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-9.756	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-8.826	-0.0035	-2.5 to 2.5	Pass
	2593	50	0	20	3.85	1.316	0.0005	-2.5 to 2.5	Pass
					3.27	-6.251	-0.0024	-2.5 to 2.5	Pass
					3.85	2.117	0.0008	-2.5 to 2.5	Pass
				-30	4.43	-3.233	-0.0012	-2.5 to 2.5	Pass
					3.85	1.659	0.0006	-2.5 to 2.5	Pass
					3.85	6.080	0.0023	-2.5 to 2.5	Pass
				-20	3.85	-3.462	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	9.327	0.0036	-2.5 to 2.5	Pass
				0	3.85	4.506	0.0017	-2.5 to 2.5	Pass
				10	3.85	8.941	0.0034	-2.5 to 2.5	Pass
	2685	50	0	20	3.85	5.651	0.0022	-2.5 to 2.5	Pass
					3.85	8.898	0.0034	-2.5 to 2.5	Pass
					3.27	0.744	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-4.392	-0.0016	-2.5 to 2.5	Pass
					4.43	6.666	0.0025	-2.5 to 2.5	Pass
					3.85	-0.830	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-4.435	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	0.329	0.0001	-2.5 to 2.5	Pass
				0	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				10	3.85	-2.131	-0.0008	-2.5 to 2.5	Pass
				30	3.85	0.830	0.0003	-2.5 to 2.5	Pass
				40	3.85	-4.792	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-7.124	-0.0027	-2.5 to 2.5	Pass

2.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2503.5	75	0	20	3.27	1.931	0.0008	-2.5 to 2.5	Pass
					3.85	0.458	0.0002	-2.5 to 2.5	Pass
					4.43	0.858	0.0003	-2.5 to 2.5	Pass
				-30	3.85	5.937	0.0024	-2.5 to 2.5	Pass
				-20	3.85	-5.150	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-4.392	-0.0018	-2.5 to 2.5	Pass
				0	3.85	0.858	0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.973	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.988	-0.0008	-2.5 to 2.5	Pass
				40	3.85	3.605	0.0014	-2.5 to 2.5	Pass
				50	3.85	-5.279	-0.0021	-2.5 to 2.5	Pass

	2593	75	0	20	3.27	1.988	0.0008	-2.5 to 2.5	Pass
					3.85	5.550	0.0021	-2.5 to 2.5	Pass
					4.43	7.110	0.0027	-2.5 to 2.5	Pass
				-30	3.85	3.362	0.0013	-2.5 to 2.5	Pass
				-20	3.85	7.024	0.0027	-2.5 to 2.5	Pass
				-10	3.85	4.592	0.0018	-2.5 to 2.5	Pass
				0	3.85	8.841	0.0034	-2.5 to 2.5	Pass
				10	3.85	8.082	0.0031	-2.5 to 2.5	Pass
				30	3.85	0.343	0.0001	-2.5 to 2.5	Pass
	2682.5	75	0	40	3.85	8.225	0.0032	-2.5 to 2.5	Pass
				50	3.85	0.114	0.0000	-2.5 to 2.5	Pass
				20	3.27	-7.954	-0.0030	-2.5 to 2.5	Pass
					3.85	-6.752	-0.0025	-2.5 to 2.5	Pass
					4.43	-1.316	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-9.727	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-5.250	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-4.492	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.416	-0.0005	-2.5 to 2.5	Pass
				10	3.85	-11.458	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-3.605	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-6.866	-0.0026	-2.5 to 2.5	Pass
				50	3.85	-7.567	-0.0028	-2.5 to 2.5	Pass

2.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
64QAM	2506	100	0	20	3.27	1.788	0.0007	-2.5 to 2.5	Pass
					3.85	8.311	0.0033	-2.5 to 2.5	Pass
					4.43	4.263	0.0017	-2.5 to 2.5	Pass
				-30	3.85	1.173	0.0005	-2.5 to 2.5	Pass
				-20	3.85	1.731	0.0007	-2.5 to 2.5	Pass
				-10	3.85	1.945	0.0008	-2.5 to 2.5	Pass
				0	3.85	8.411	0.0034	-2.5 to 2.5	Pass
				10	3.85	11.344	0.0045	-2.5 to 2.5	Pass
				30	3.85	7.567	0.0030	-2.5 to 2.5	Pass
	2593	100	0	40	3.85	-0.200	-0.0001	-2.5 to 2.5	Pass
				50	3.85	3.777	0.0015	-2.5 to 2.5	Pass
				20	3.27	1.945	0.0008	-2.5 to 2.5	Pass
					3.85	-2.160	-0.0008	-2.5 to 2.5	Pass
					4.43	0.930	0.0004	-2.5 to 2.5	Pass
				-30	3.85	1.760	0.0007	-2.5 to 2.5	Pass
				-20	3.85	3.762	0.0015	-2.5 to 2.5	Pass
				-10	3.85	1.030	0.0004	-2.5 to 2.5	Pass
				0	3.85	8.054	0.0031	-2.5 to 2.5	Pass
	2680	100	0	10	3.85	7.253	0.0028	-2.5 to 2.5	Pass
				30	3.85	7.596	0.0029	-2.5 to 2.5	Pass
				40	3.85	5.021	0.0019	-2.5 to 2.5	Pass
				50	3.85	0.300	0.0001	-2.5 to 2.5	Pass
				20	3.27	7.854	0.0029	-2.5 to 2.5	Pass
					3.85	7.339	0.0027	-2.5 to 2.5	Pass
					4.43	5.980	0.0022	-2.5 to 2.5	Pass
				-30	3.85	1.016	0.0004	-2.5 to 2.5	Pass
				-20	3.85	7.668	0.0029	-2.5 to 2.5	Pass

				-10	3.85	4.363	0.0016	-2.5 to 2.5	Pass
				0	3.85	7.453	0.0028	-2.5 to 2.5	Pass
				10	3.85	6.909	0.0026	-2.5 to 2.5	Pass
				30	3.85	8.025	0.0030	-2.5 to 2.5	Pass
				40	3.85	4.377	0.0016	-2.5 to 2.5	Pass
				50	3.85	4.864	0.0018	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band41_OBW

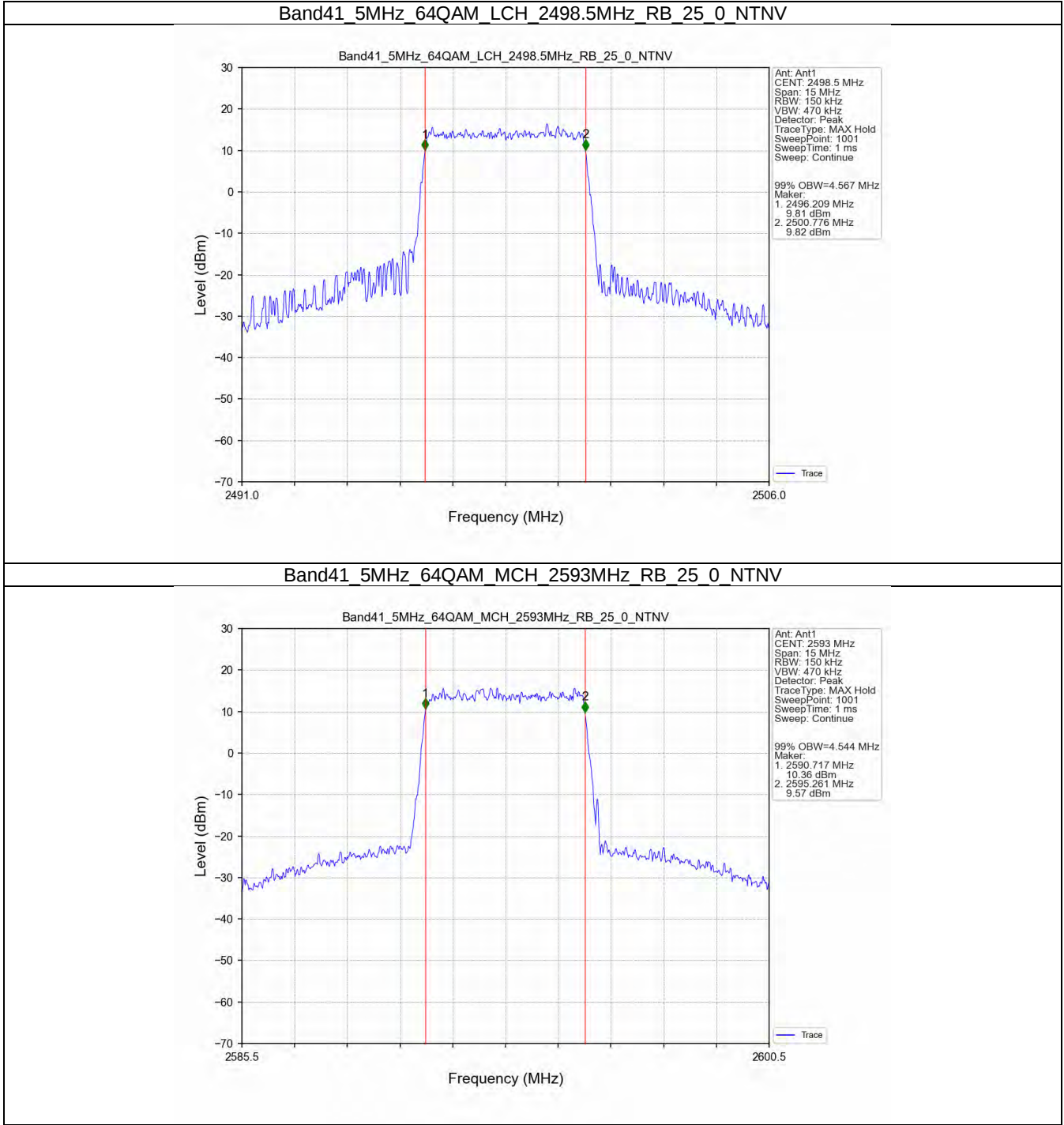
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	64QAM	2498.5	25	0	4.567	/	Pass
		2593	25	0	4.544	/	Pass
		2687.5	25	0	4.561	/	Pass
10	64QAM	2501	50	0	8.992	/	Pass
		2593	50	0	9.043	/	Pass
		2685	50	0	9.052	/	Pass
15	64QAM	2503.5	75	0	13.549	/	Pass
		2593	75	0	13.544	/	Pass
		2682.5	75	0	13.555	/	Pass
20	64QAM	2506	100	0	17.988	/	Pass
		2593	100	0	18.052	/	Pass
		2680	100	0	17.977	/	Pass

3.1.2 Band41_XDB

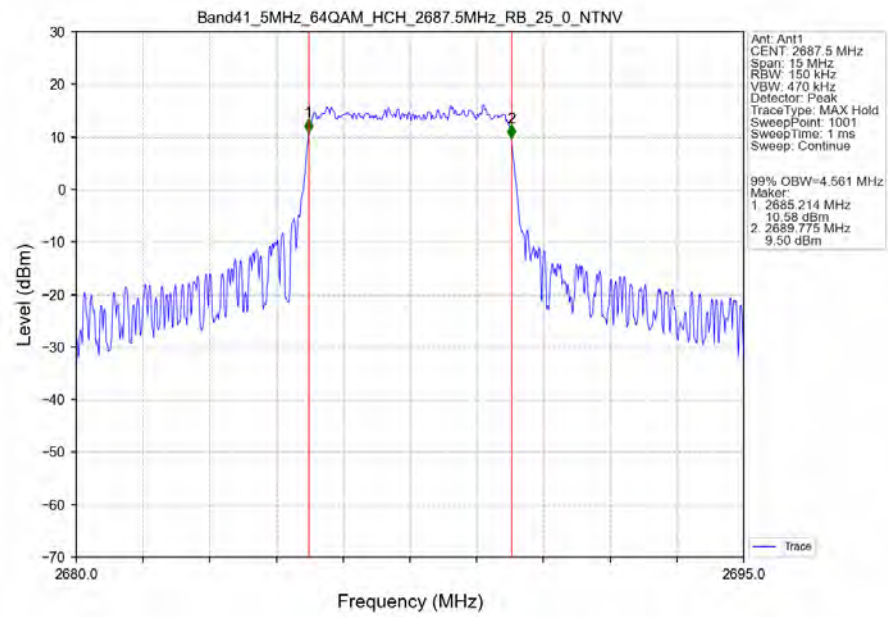
Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	64QAM	2498.5	25	0	5.024	/	Pass
		2593	25	0	5.026	/	Pass
		2687.5	25	0	5.656	/	Pass
10	64QAM	2501	50	0	9.862	/	Pass
		2593	50	0	9.886	/	Pass
		2685	50	0	9.919	/	Pass
15	64QAM	2503.5	75	0	14.808	/	Pass
		2593	75	0	14.894	/	Pass
		2682.5	75	0	14.878	/	Pass
20	64QAM	2506	100	0	19.610	/	Pass
		2593	100	0	19.713	/	Pass
		2680	100	0	19.671	/	Pass

3.2 Test Graph

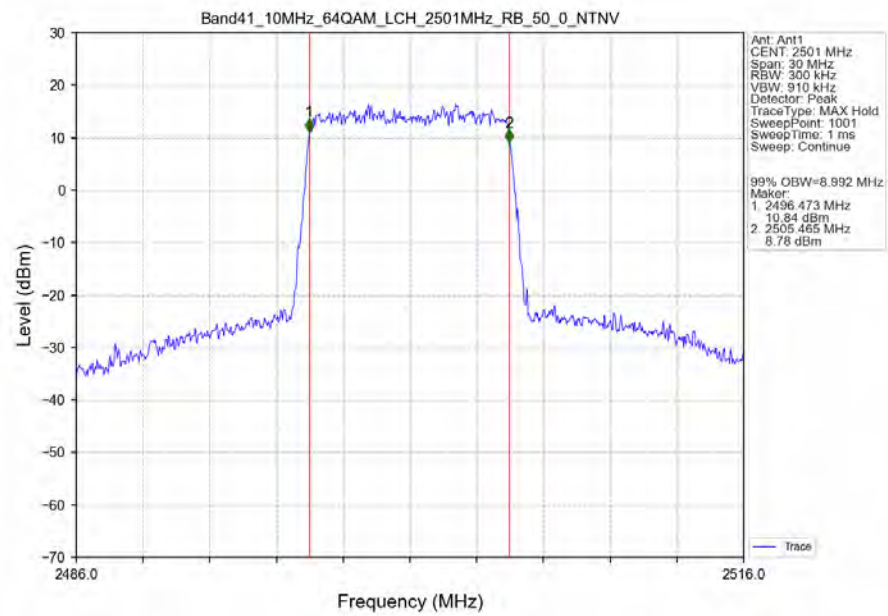
3.2.1 Band41_OBW



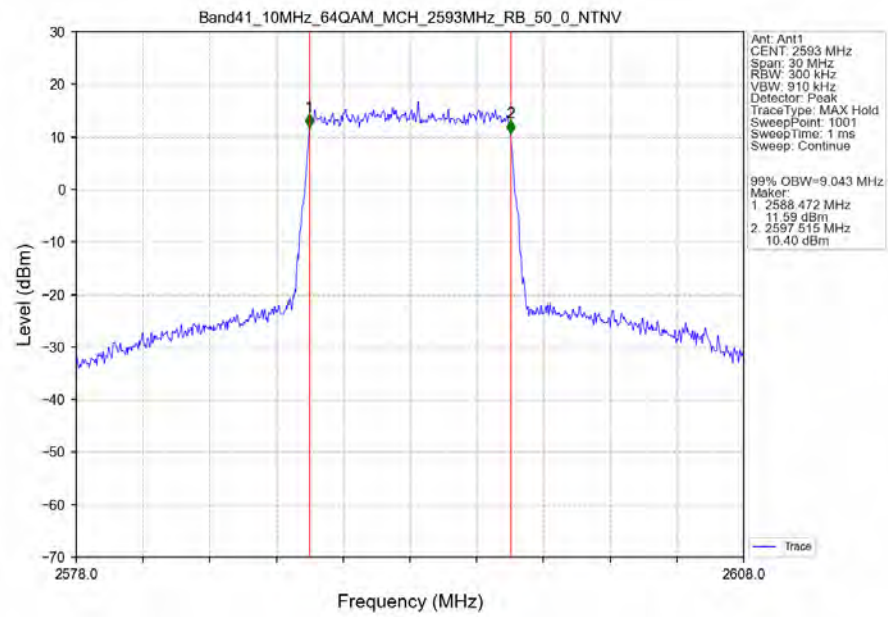
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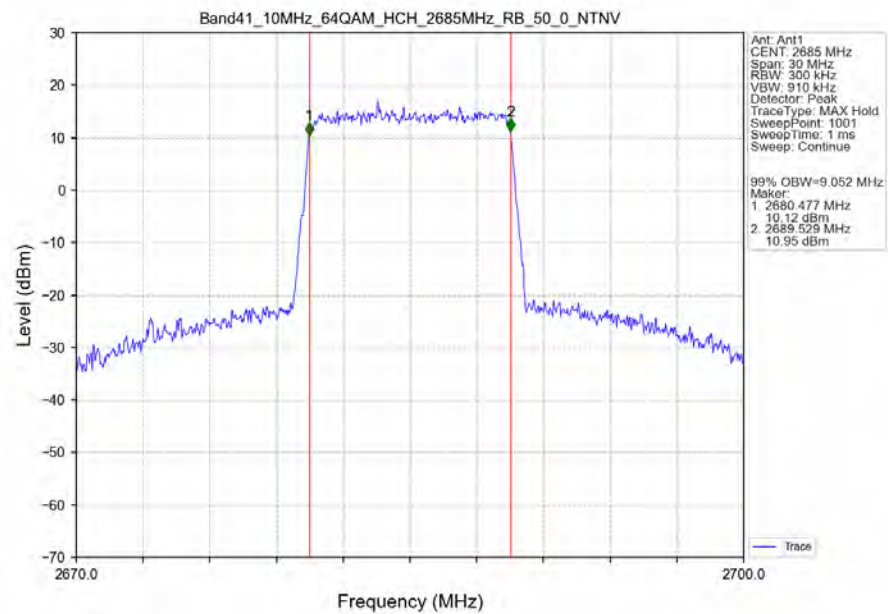
Band41_10MHz_64QAM_LCH_2501MHz_RB_50_0_NTNV



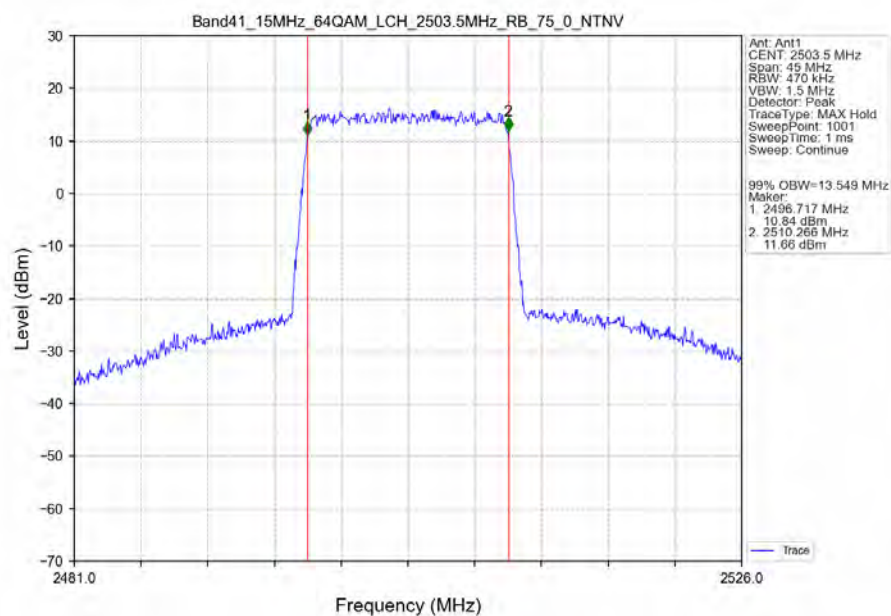
Band41_10MHz_64QAM_MCH_2593MHz_RB_50_0_NTNV



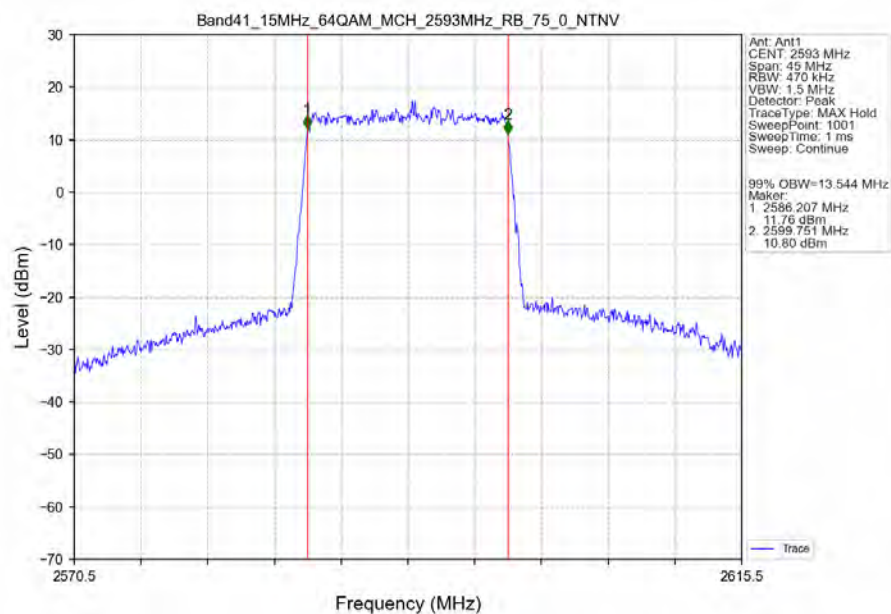
Band41_10MHz_64QAM_HCH_2685MHz_RB_50_0_NTNV



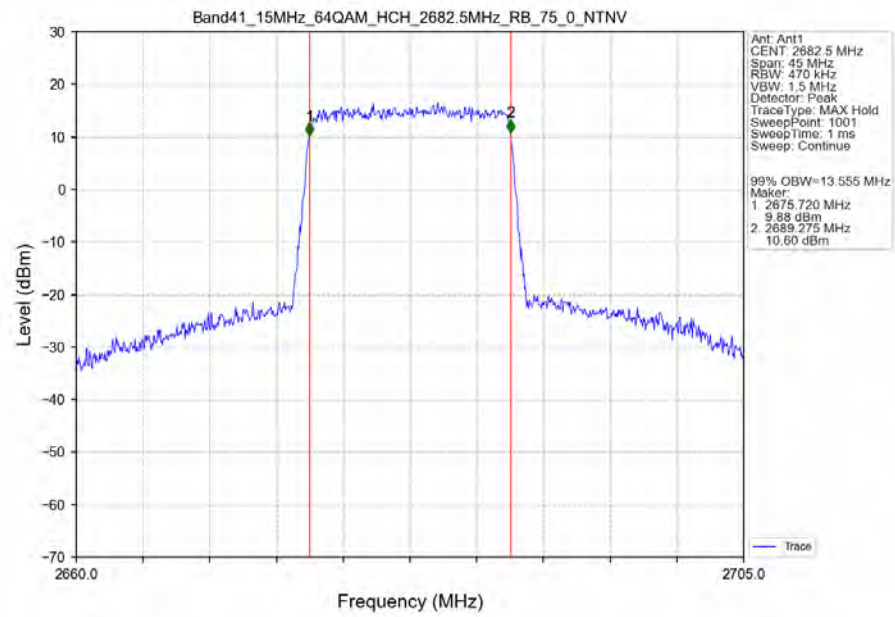
Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV



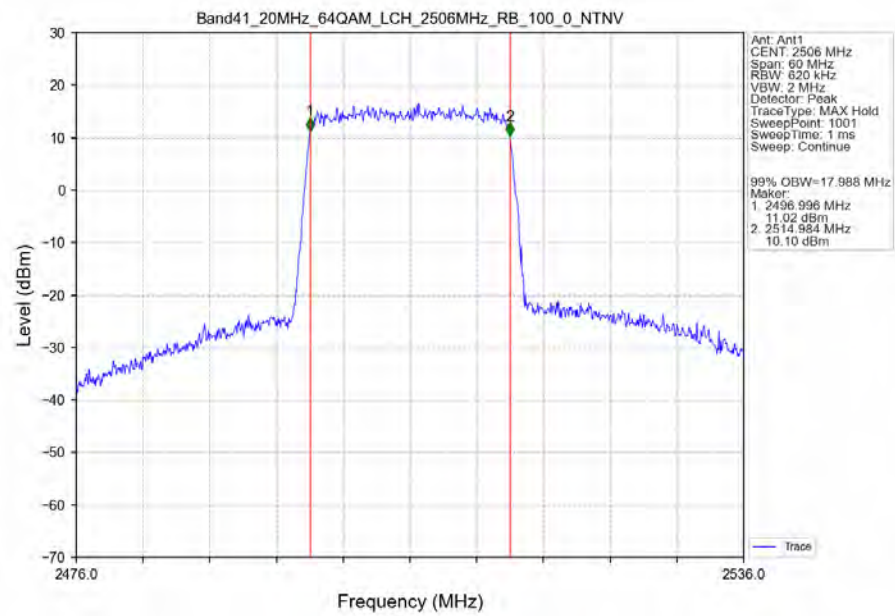
Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



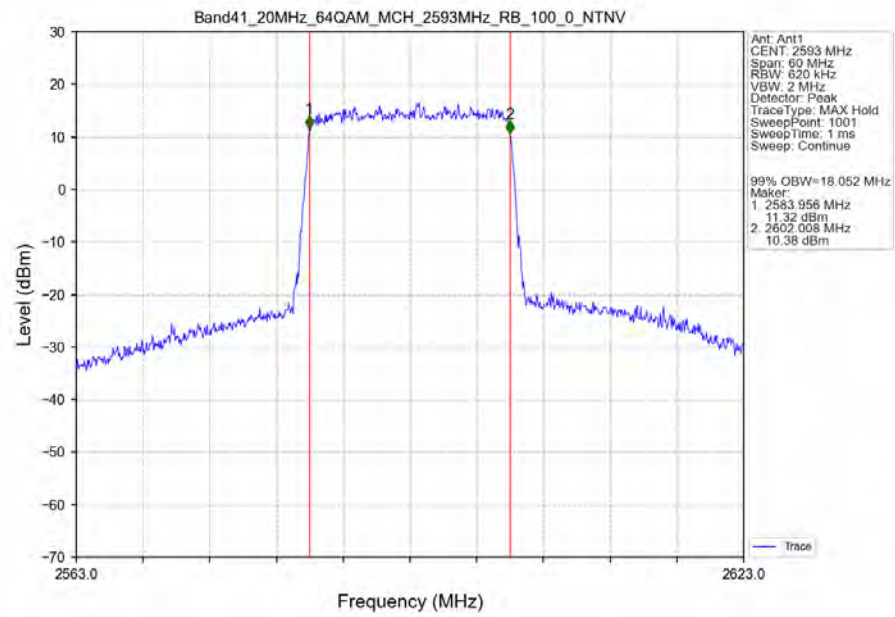
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV



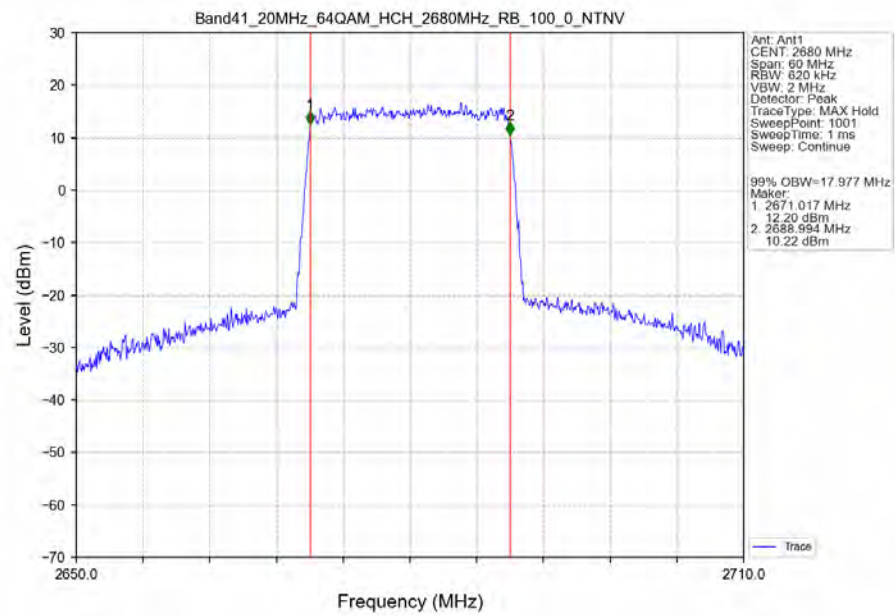
Band41_20MHz_64QAM_LCH_2506MHz_RB_100_0_NTNV



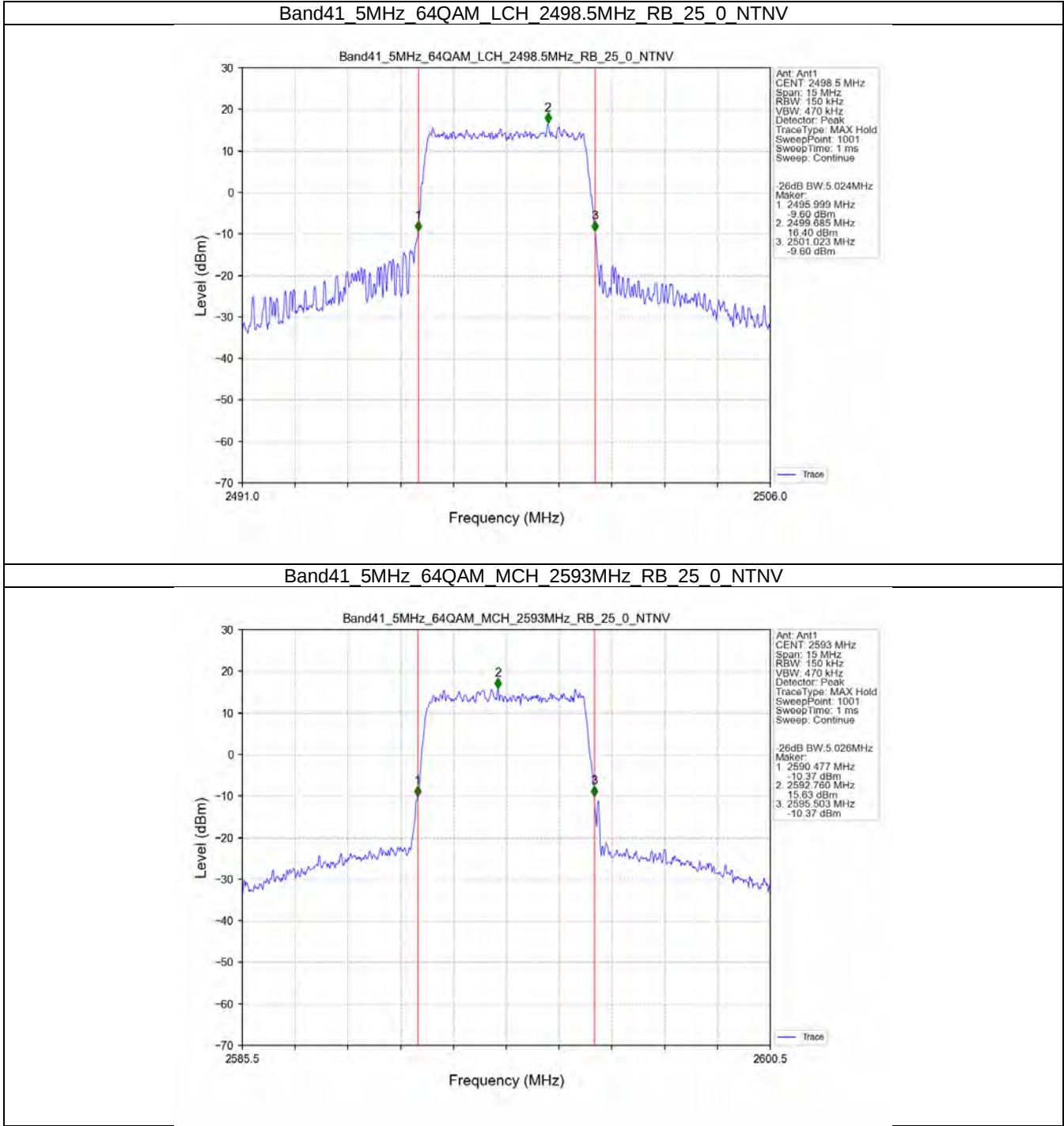
Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



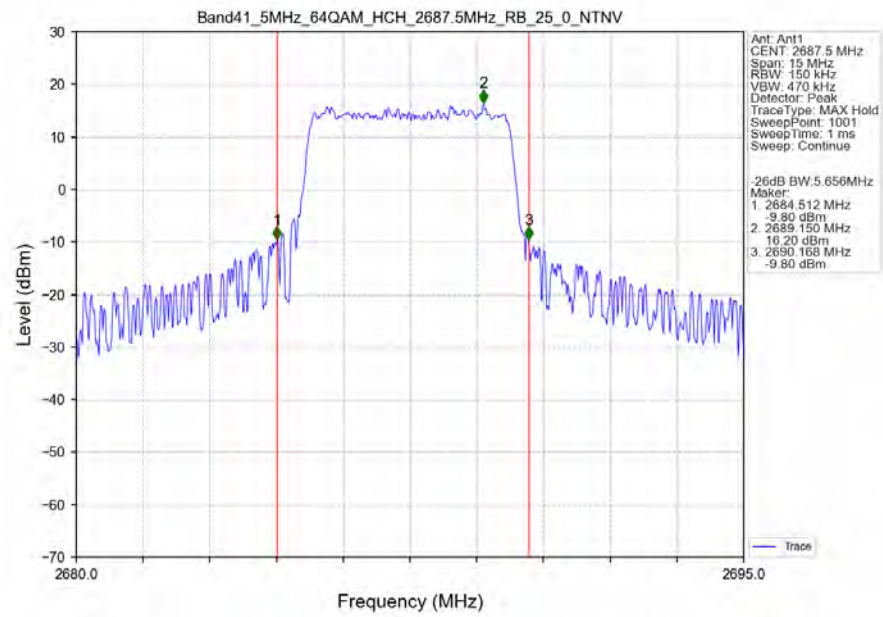
Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



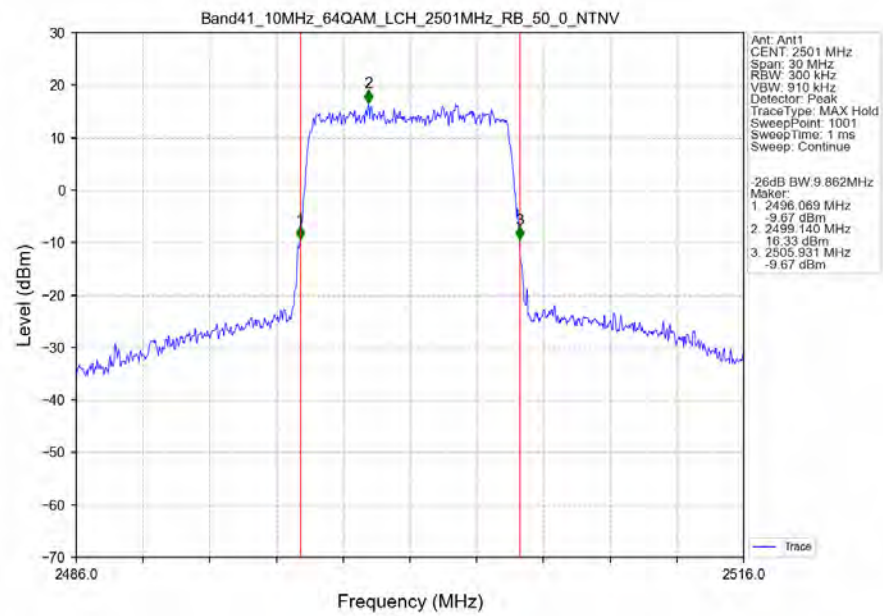
3.2.2 Band41_XDB



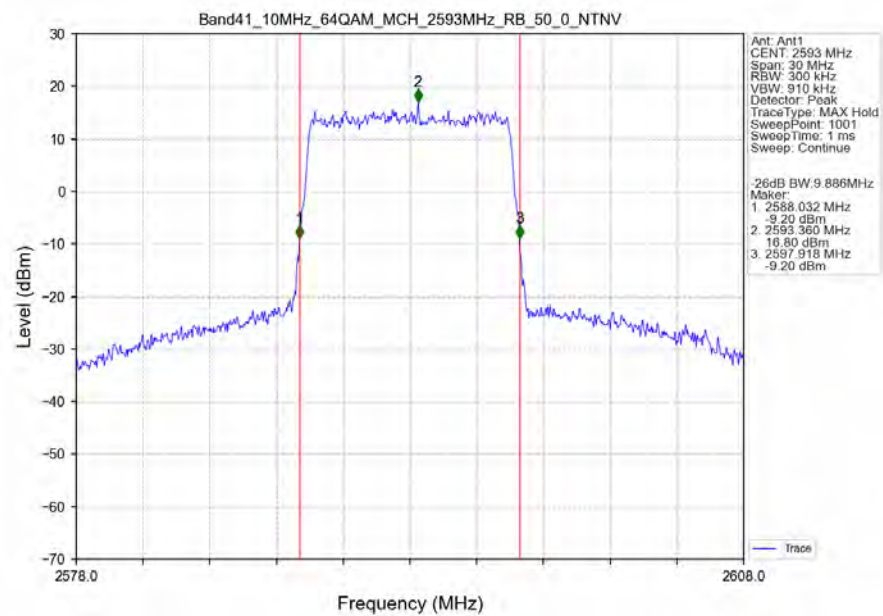
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



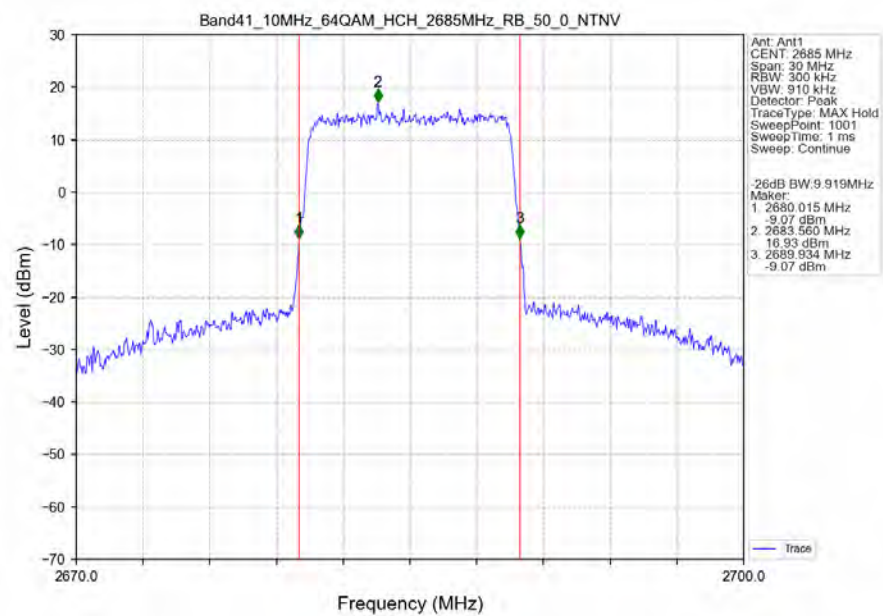
Band41_10MHz_64QAM_LCH_2501MHz_RB_50_0_NTNV



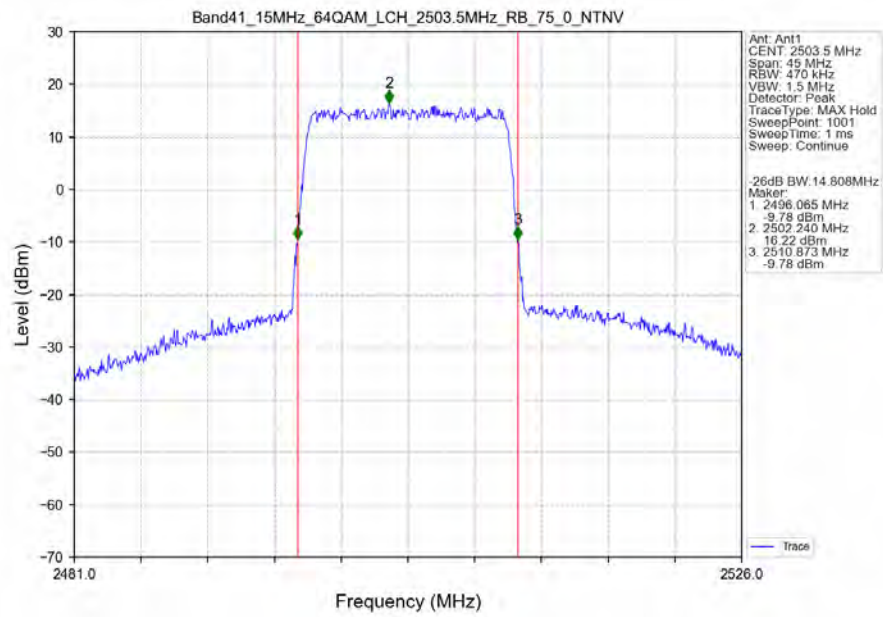
Band41_10MHz_64QAM_MCH_2593MHz_RB_50_0_NTNV



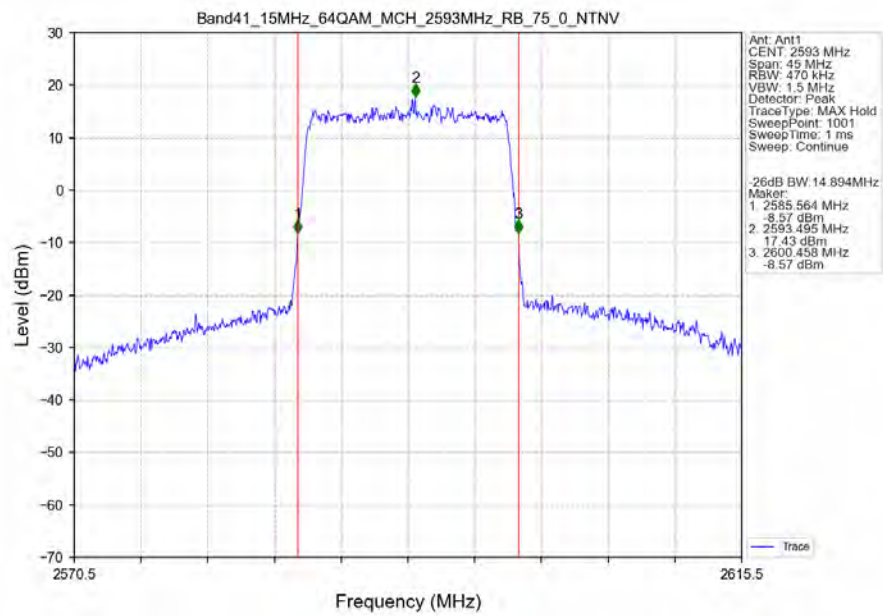
Band41_10MHz_64QAM_HCH_2685MHz_RB_50_0_NTNV



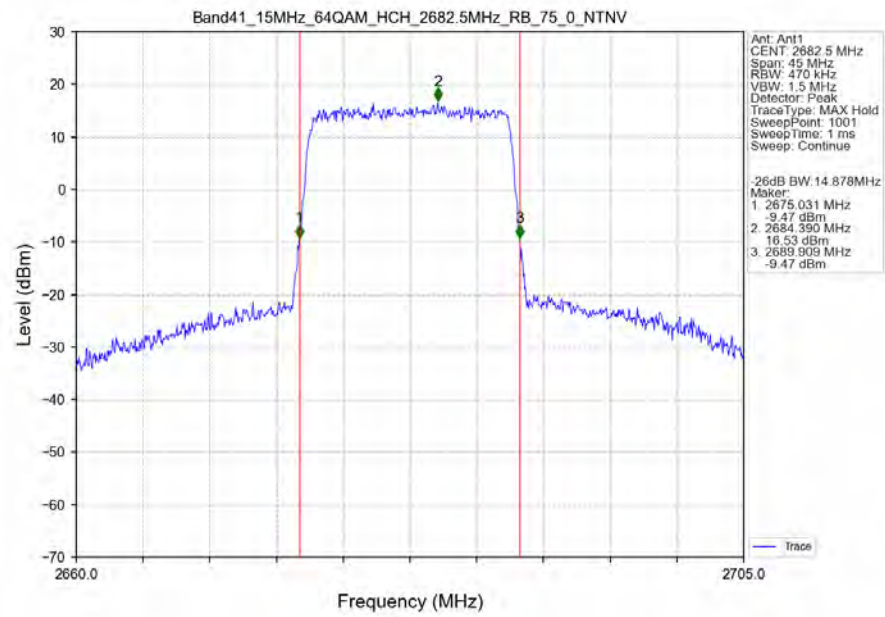
Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV



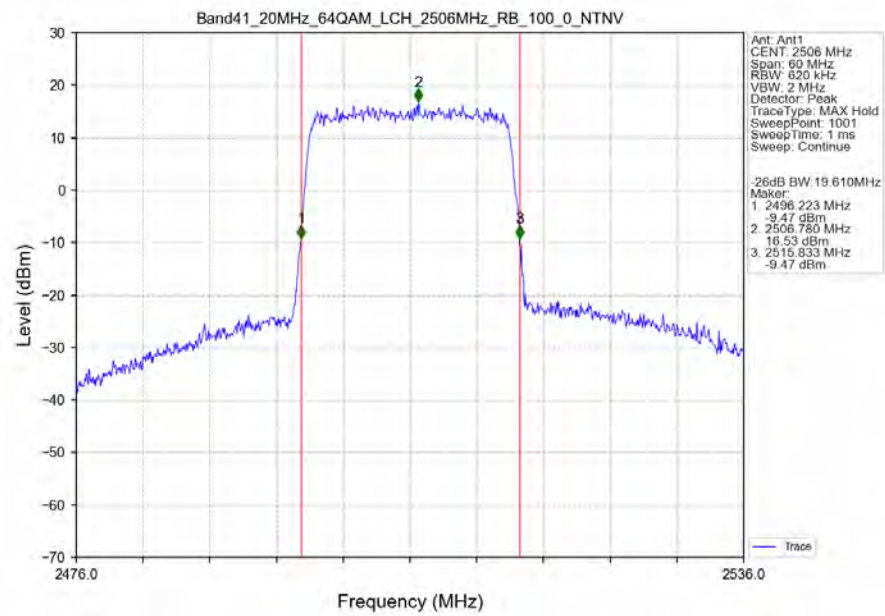
Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



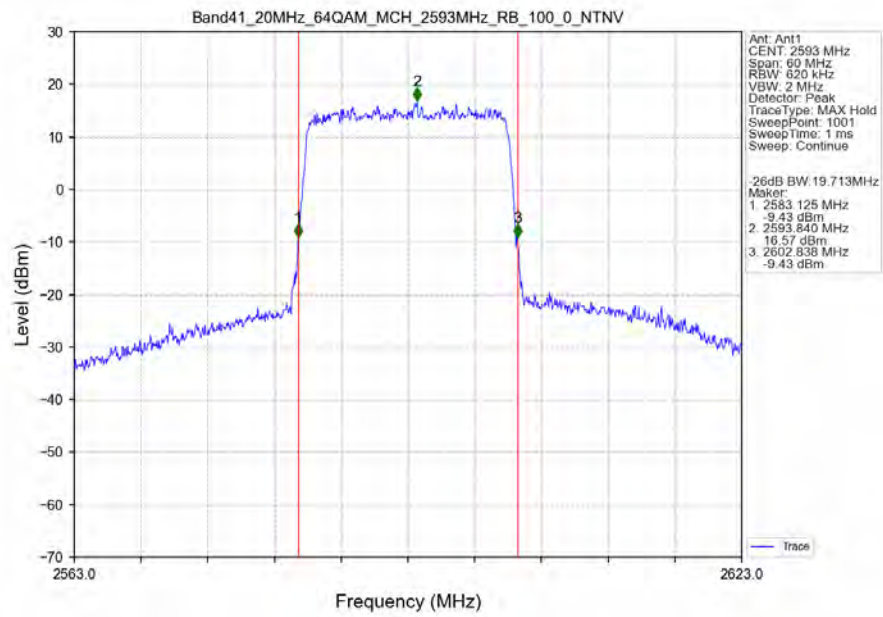
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV



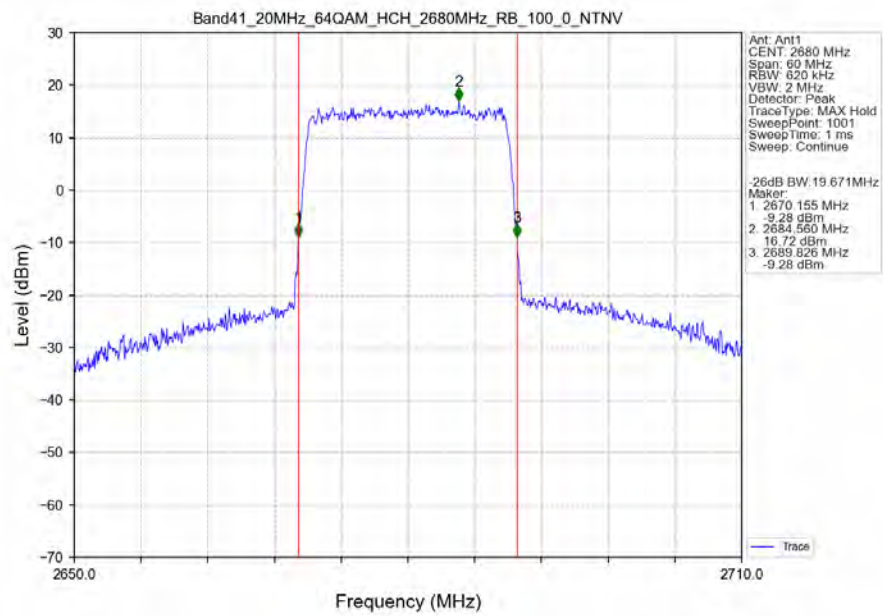
Band41_20MHz_64QAM_LCH_2506MHz_RB_100_0_NTNV



Band41_20MHz_64QAM_MCH_2593MHz_RB_100_0_NTNV



Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2498.5	25	0	8.56	<=13	Pass
	2593	25	0	8.72	<=13	Pass
	2687.5	25	0	8.38	<=13	Pass

4.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2501	50	0	8.50	<=13	Pass
	2593	50	0	8.67	<=13	Pass
	2685	50	0	8.54	<=13	Pass

4.1.3 B41_15MHz

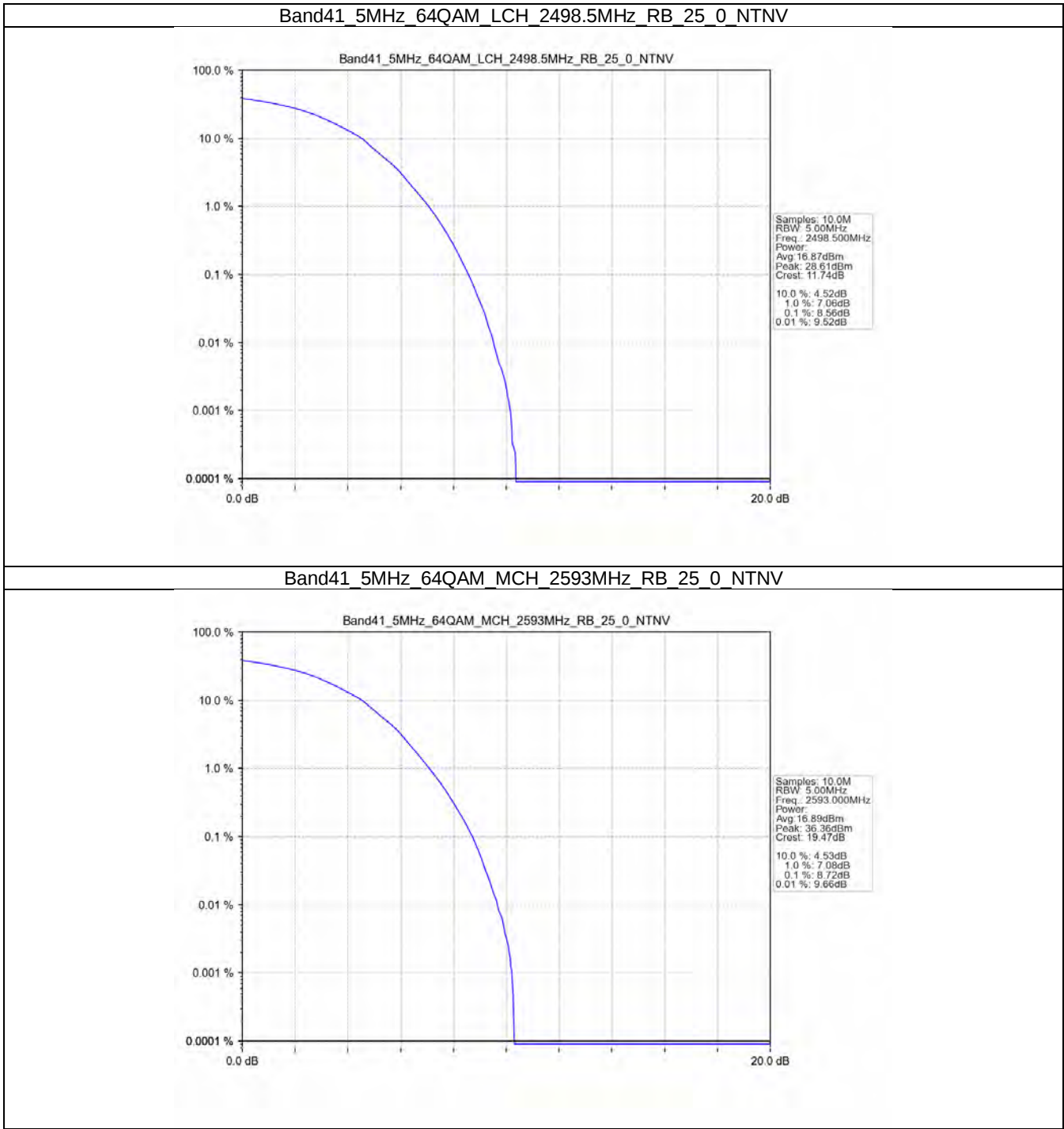
Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2503.5	75	0	8.54	<=13	Pass
	2593	75	0	8.60	<=13	Pass
	2682.5	75	0	8.57	<=13	Pass

4.1.4 B41_20MHz

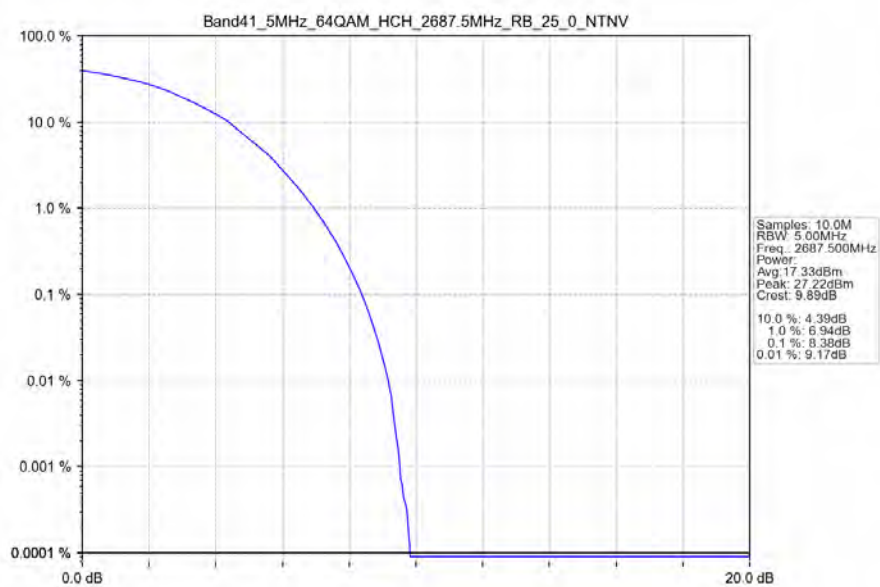
Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
64QAM	2506	100	0	8.32	<=13	Pass
	2593	100	0	8.43	<=13	Pass
	2680	100	0	8.66	<=13	Pass

4.2 Test Graph

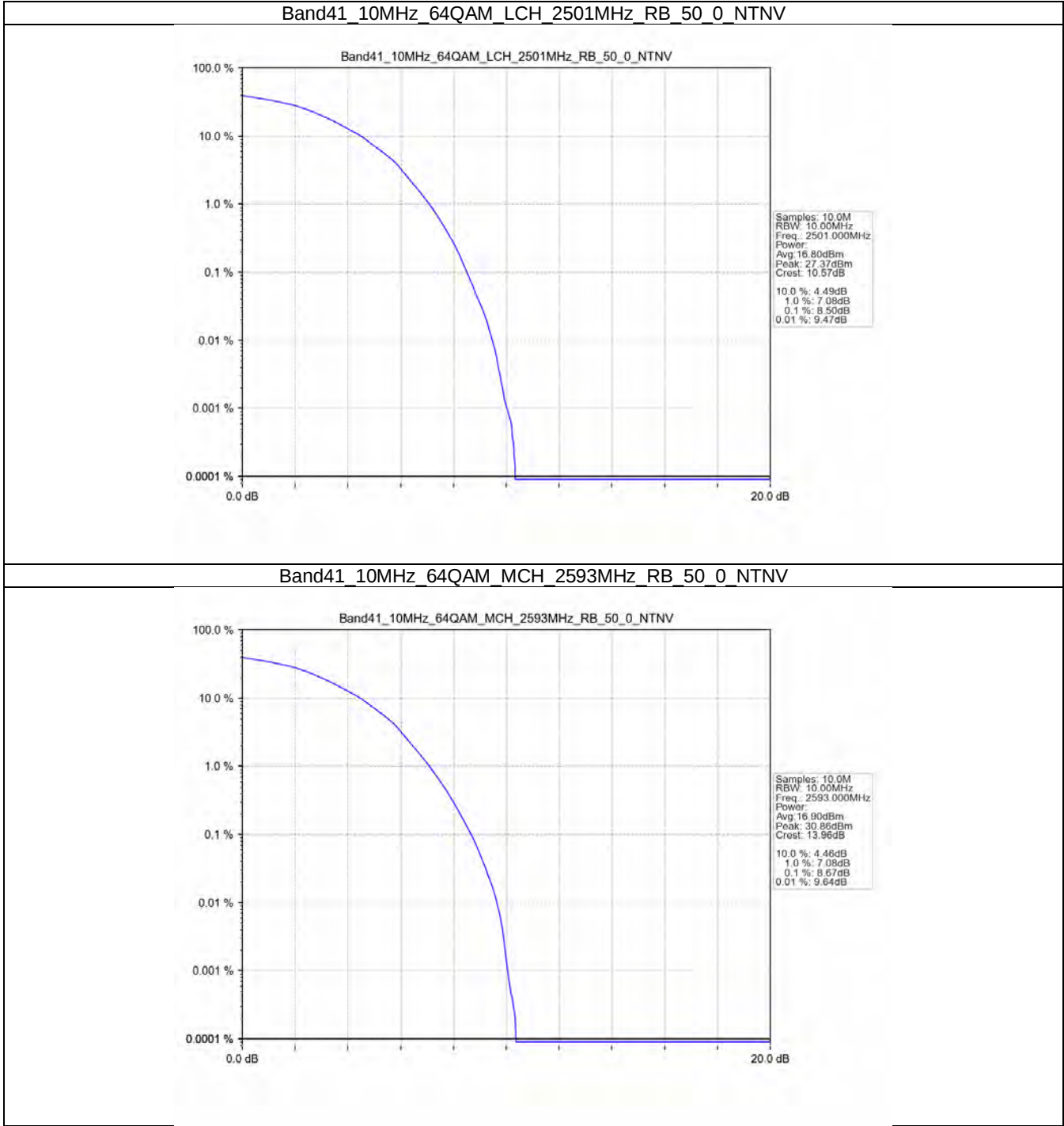
4.2.1 B41_5MHz



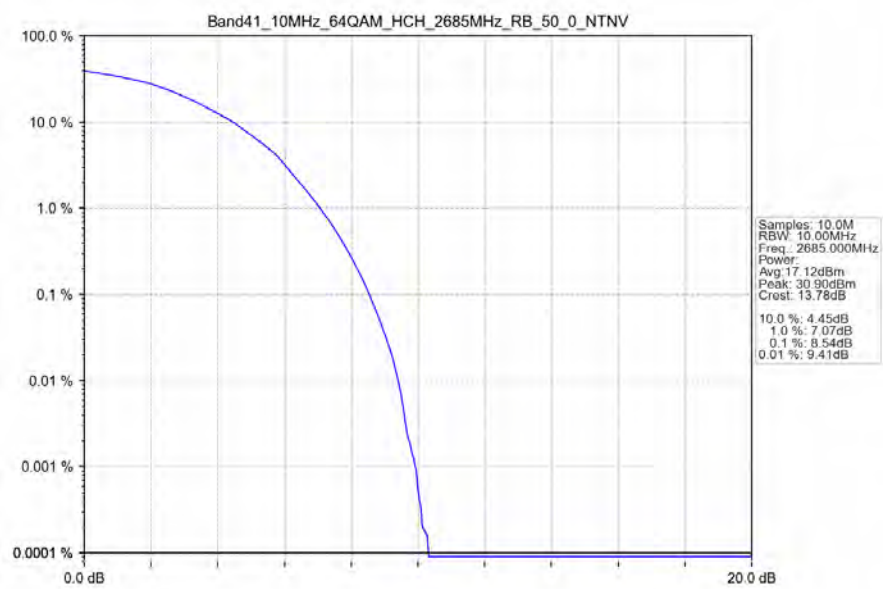
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



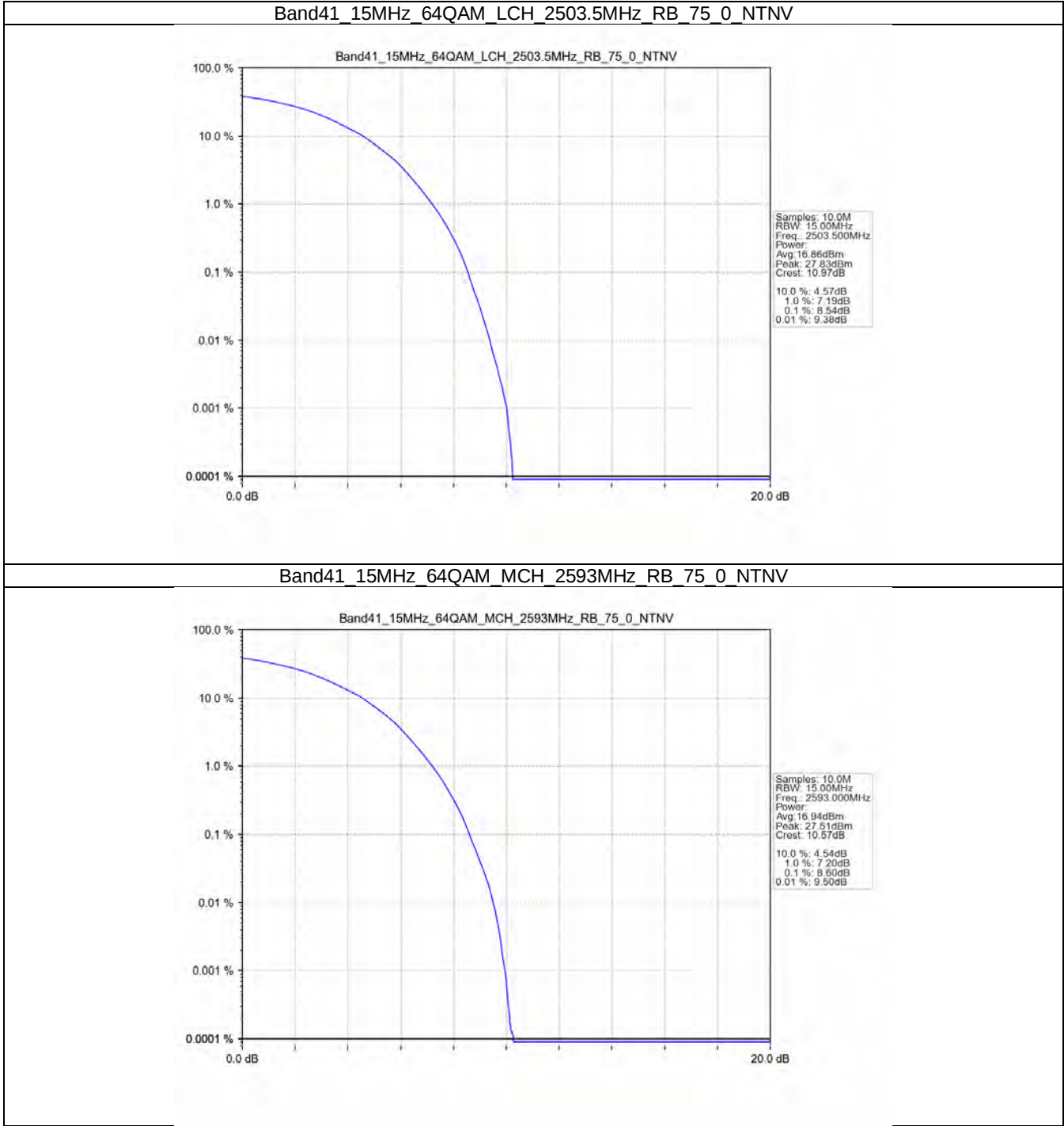
4.2.2 B41_10MHz



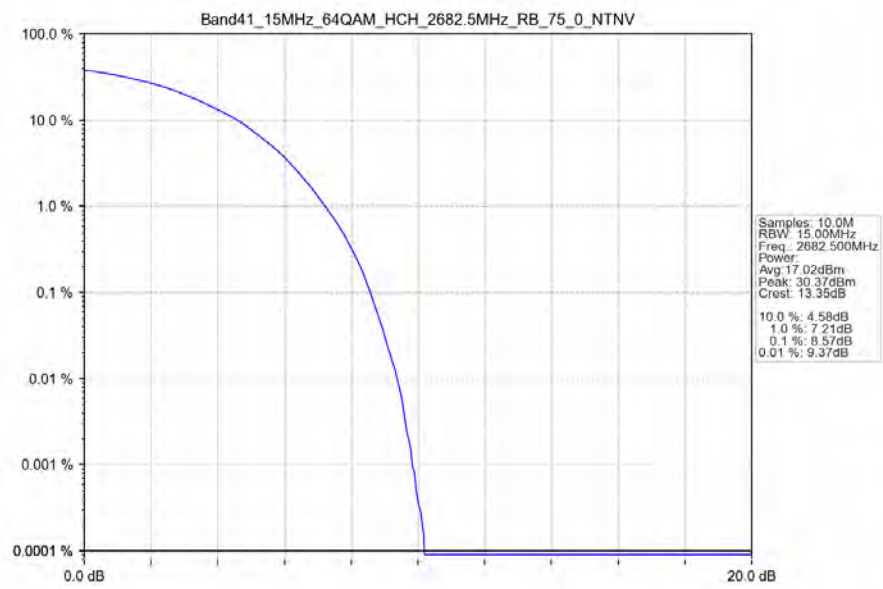
Band41_10MHz_64QAM_HCH_2685MHz_RB_50_0_NTNV



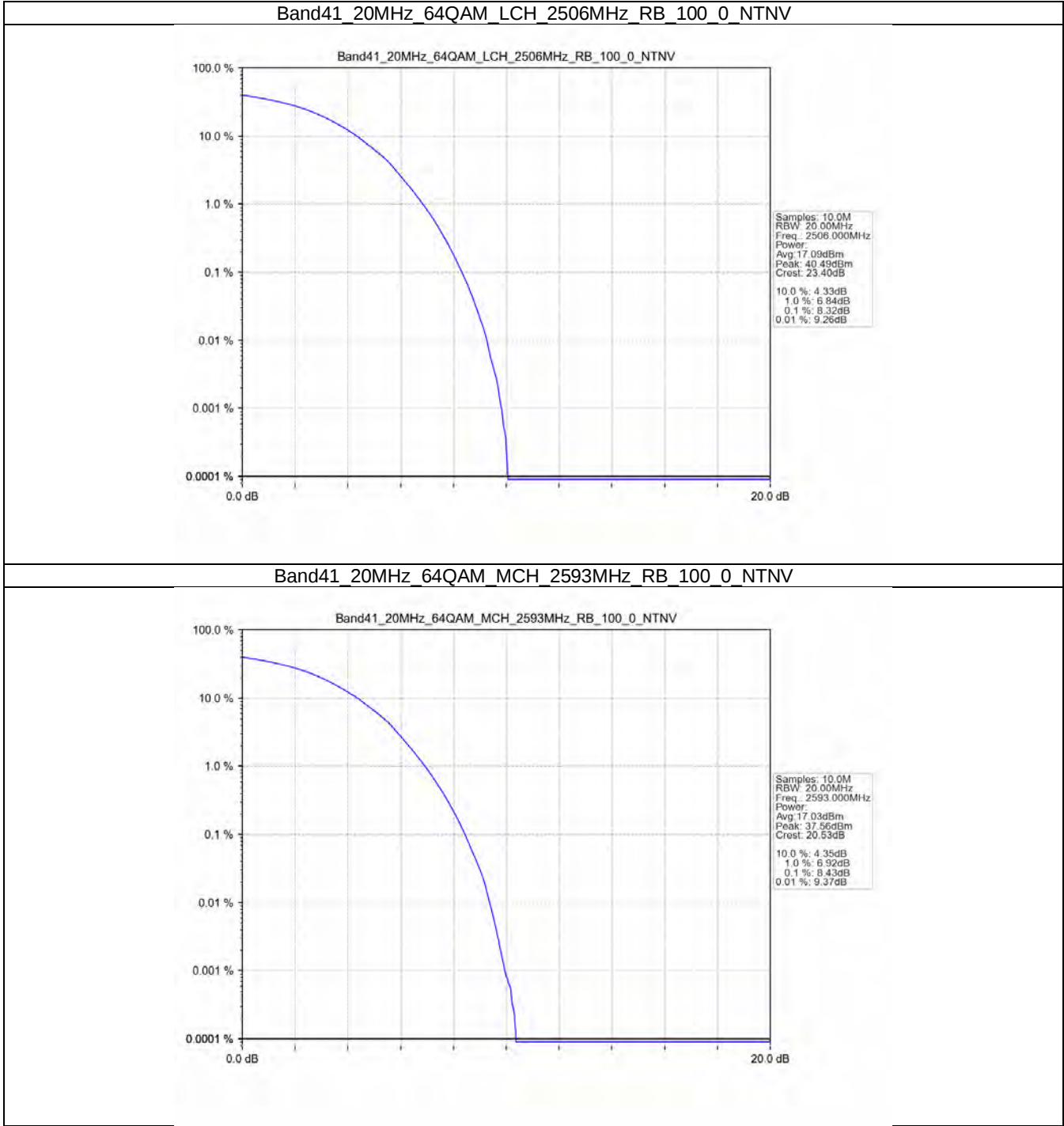
4.2.3 B41_15MHz



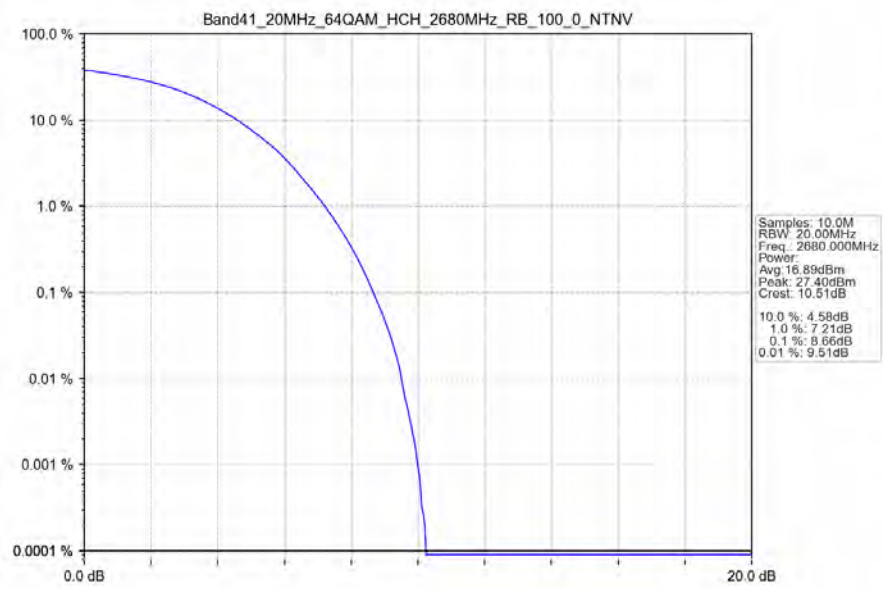
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV



4.2.4 B41_20MHz



Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B41_5MHz

Band: 41 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2498.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2687.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B41_10MHz

Band: 41 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2501	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2685	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B41_15MHz

Band: 41 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2503.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass
	2682.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

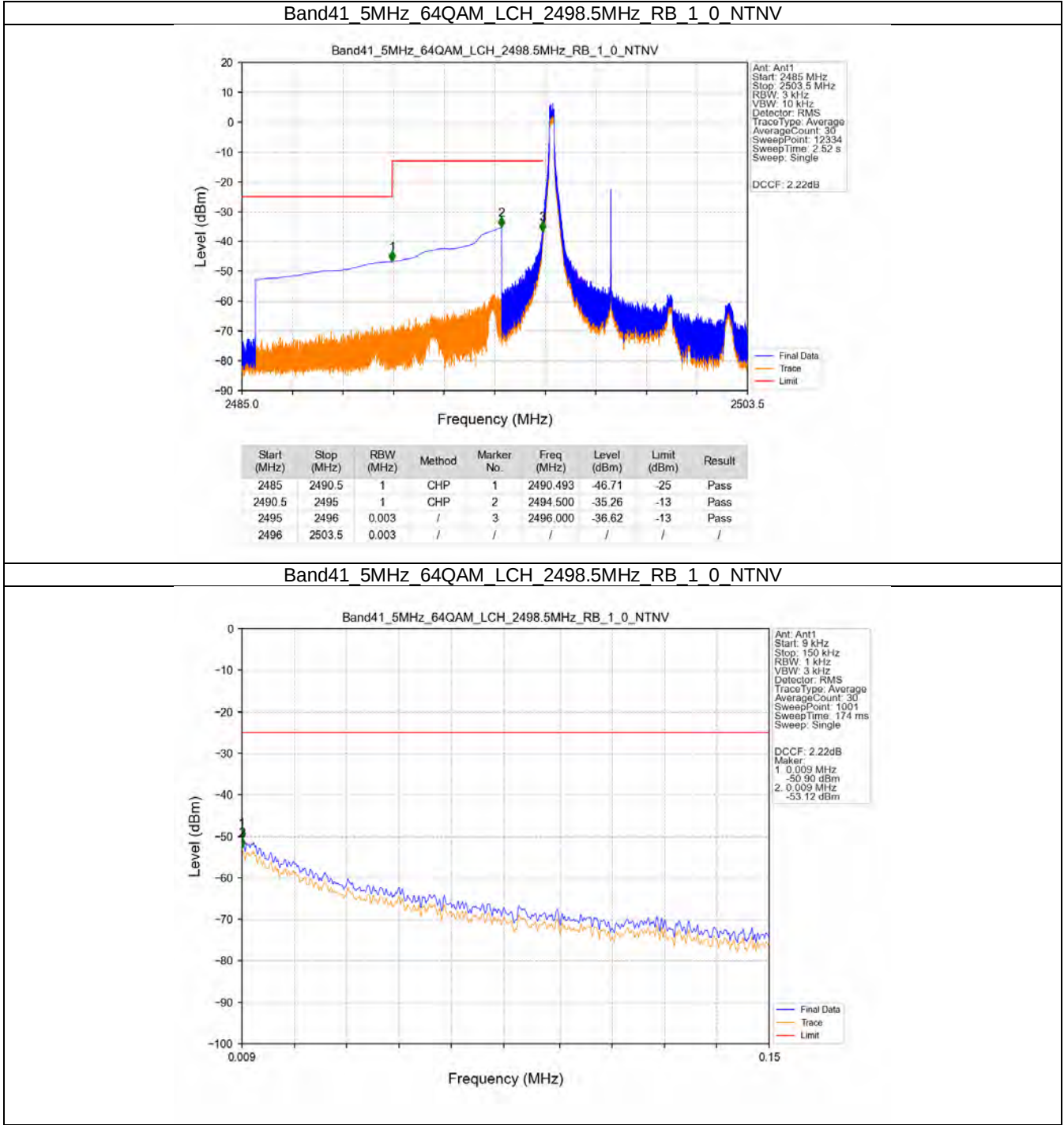
5.1.4 B41_20MHz

Band: 41 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	2506	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2593	1	0	Refer To Test Graph		Pass

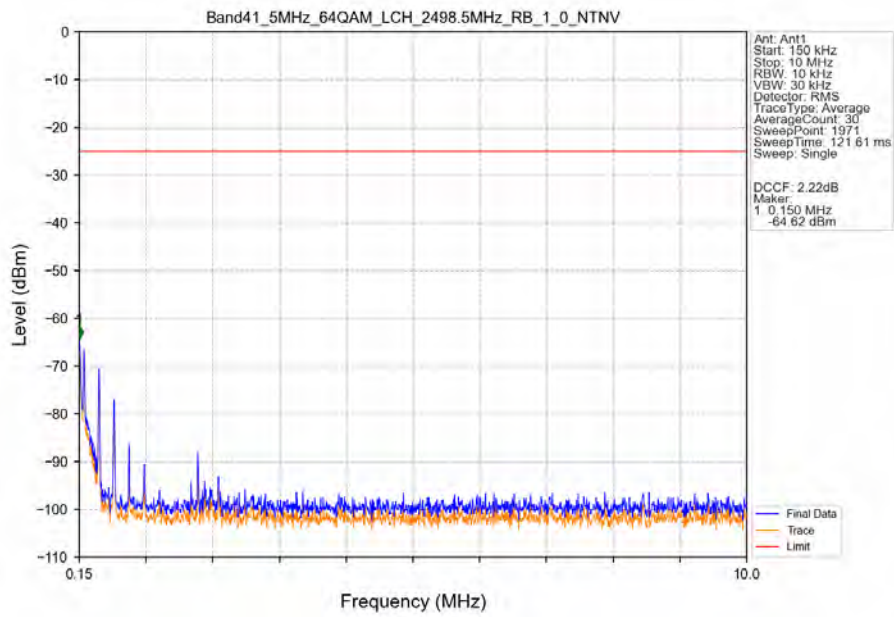
	2680	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass

5.2 Test Graph

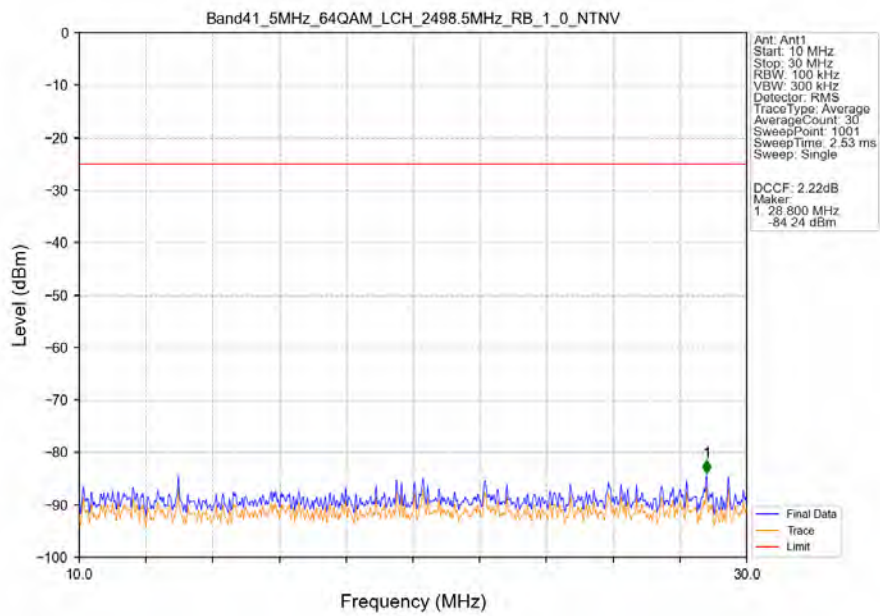
5.2.1 B41_5MHz



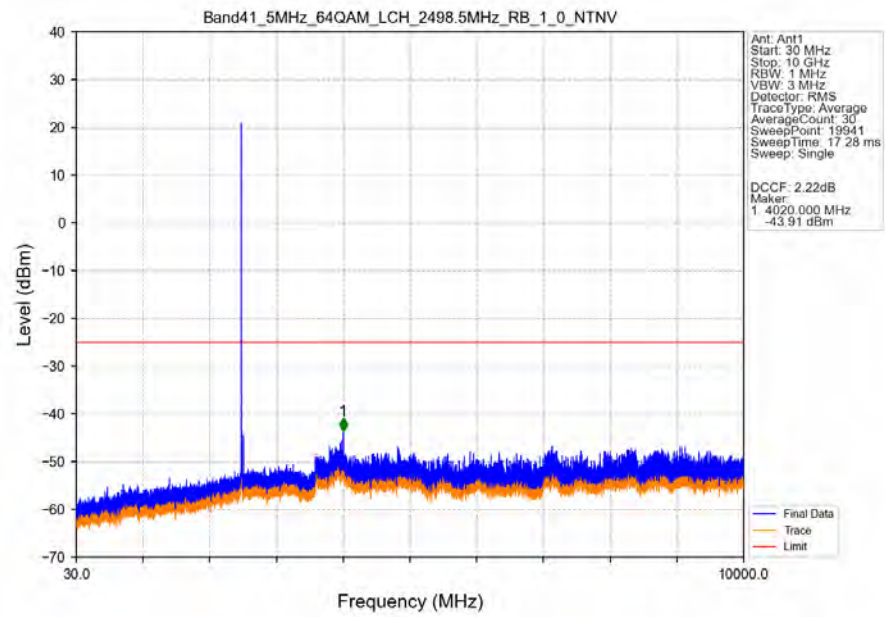
Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



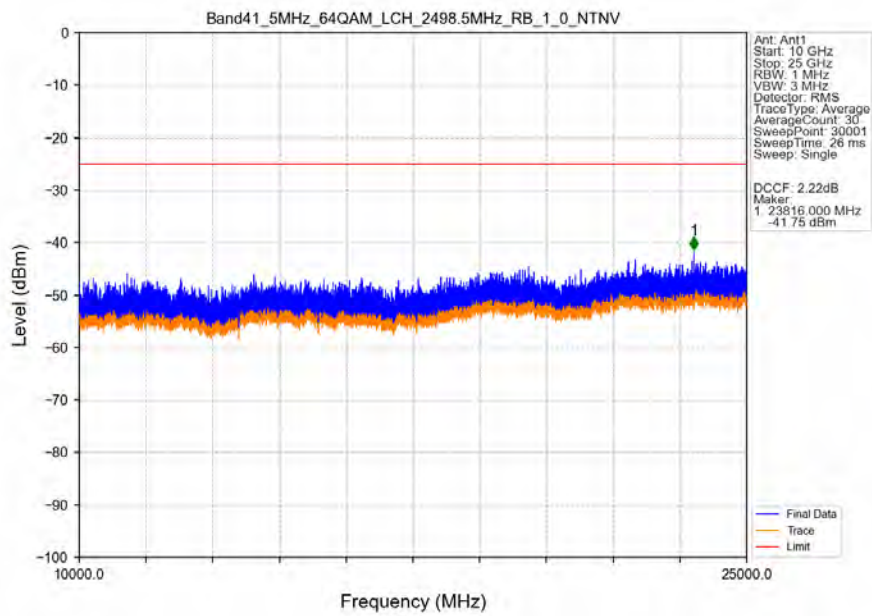
Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



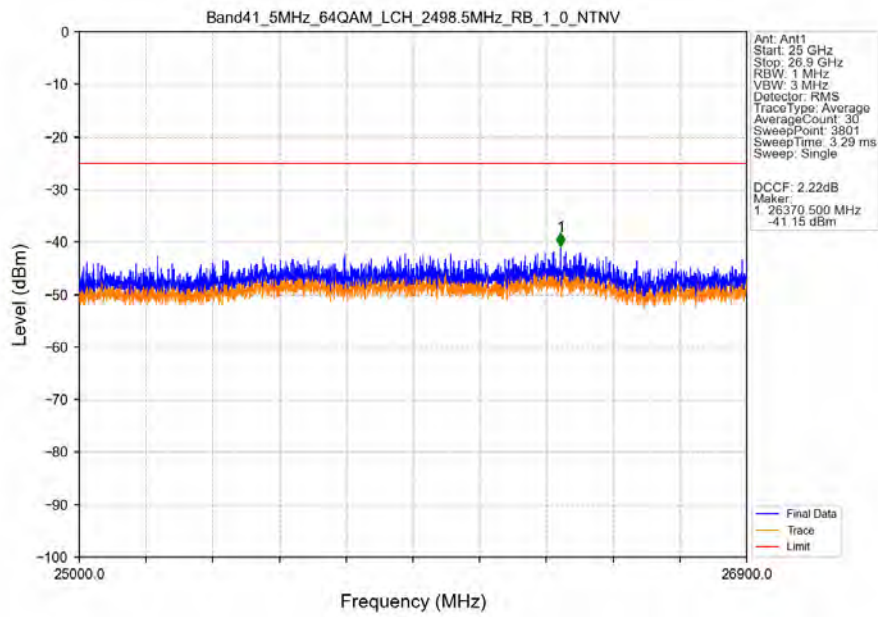
Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



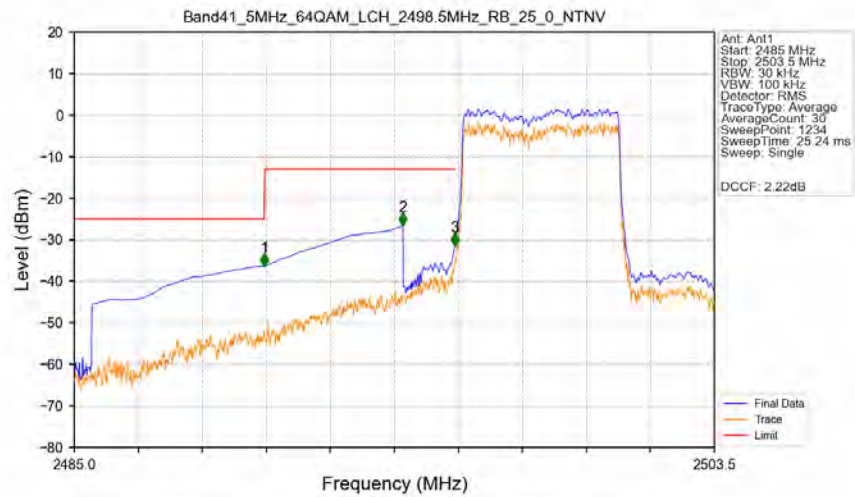
Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV



Band41_5MHz_64QAM_LCH_2498.5MHz_RB_1_0_NTNV

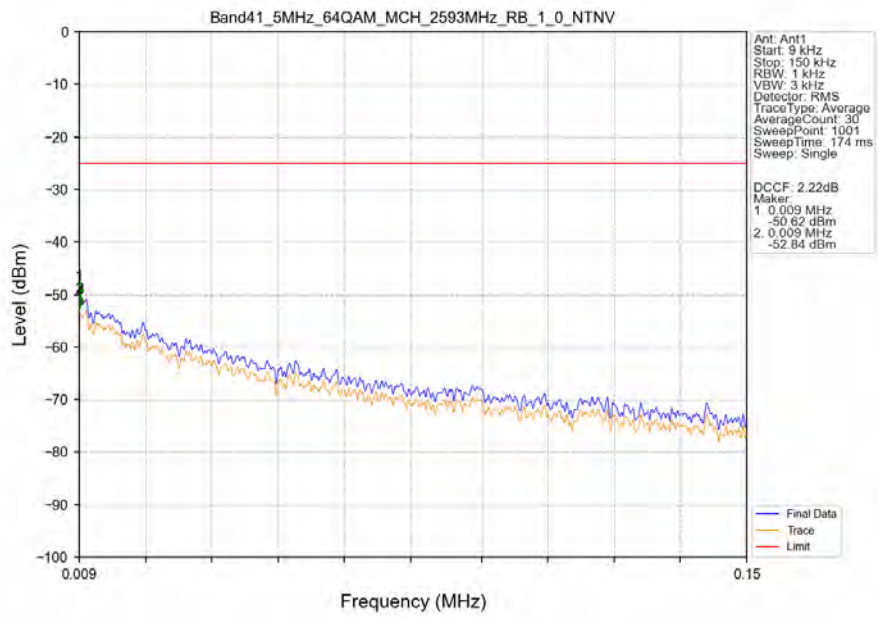


Band41_5MHz_64QAM_LCH_2498.5MHz_RB_25_0_NTNV

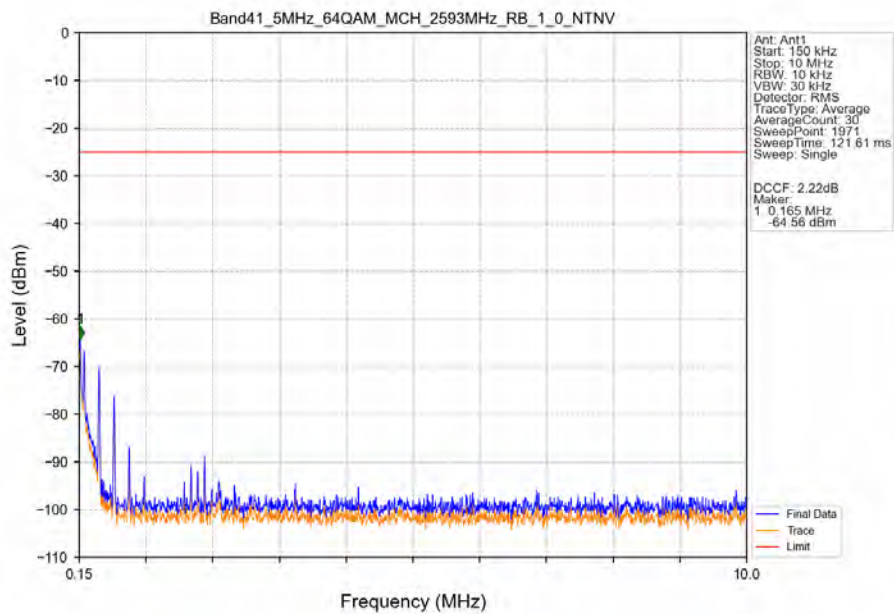


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.491	-36.36	-25	Pass
2490.5	2495	1	CHP	2	2494.498	-26.49	-13	Pass
2495	2496	0.05	CHP	3	2495.998	-31.53	-13	Pass
2496	2503.5	0.05	CHP	/	/	/	/	/

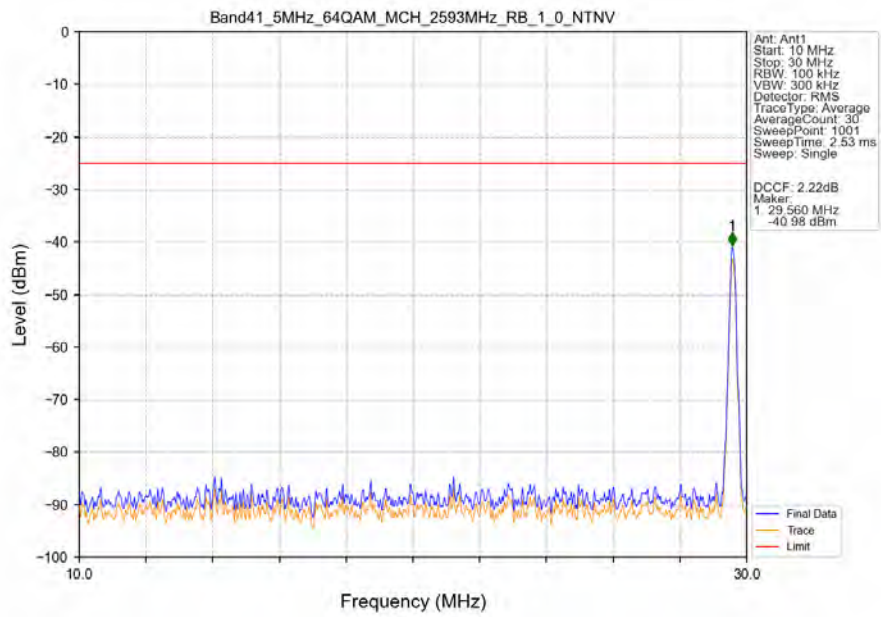
Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



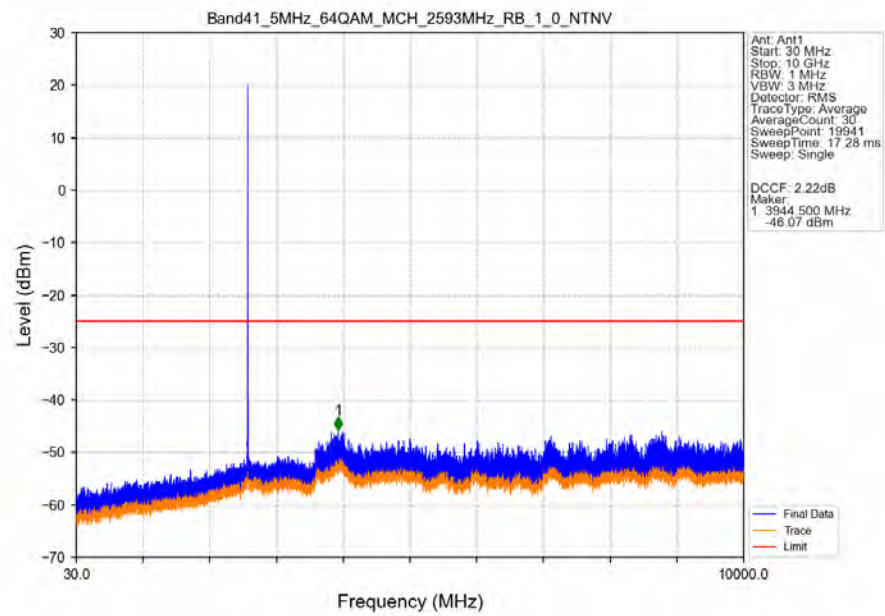
Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



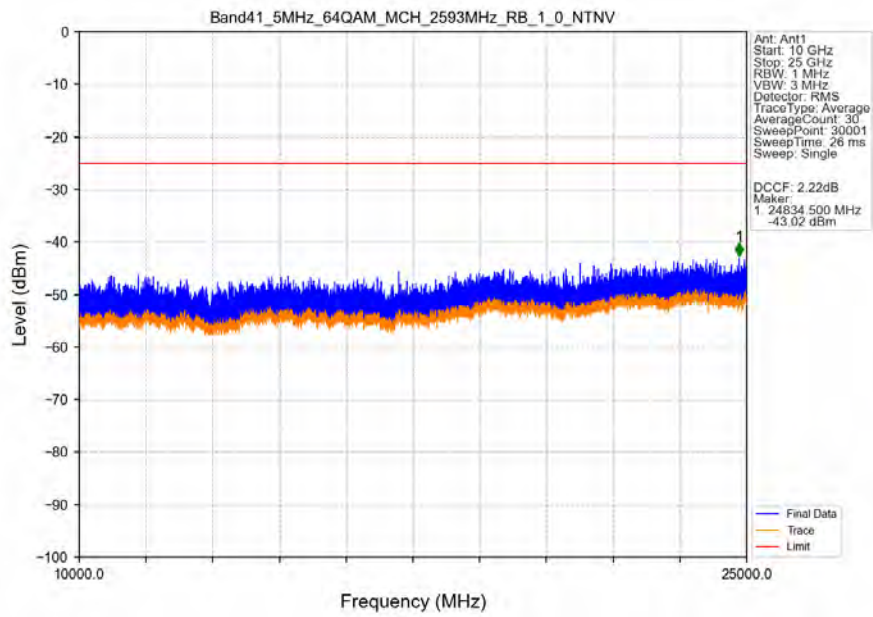
Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



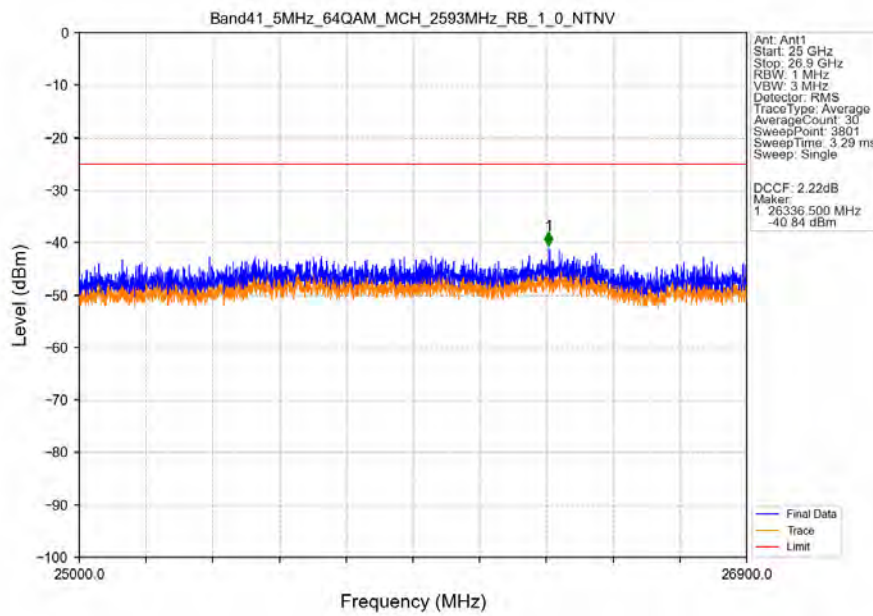
Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



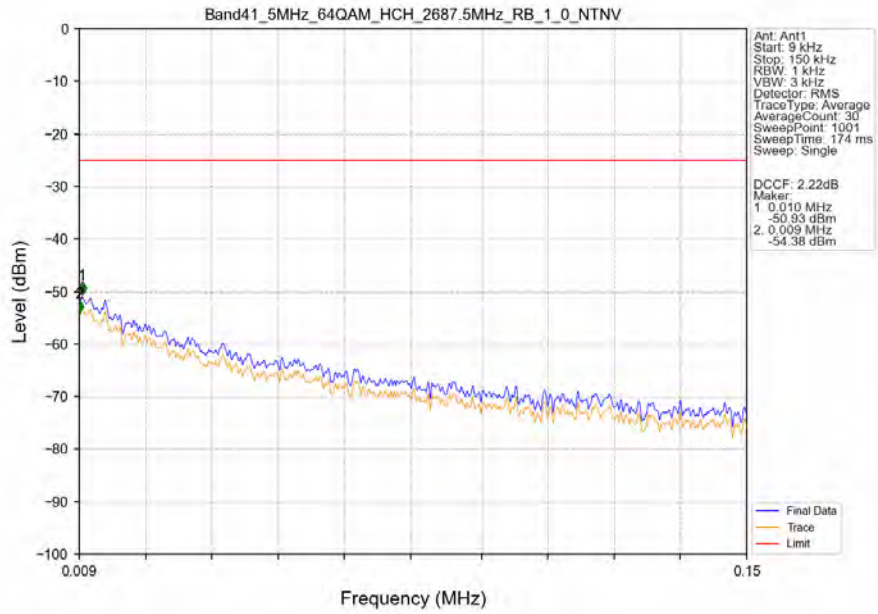
Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



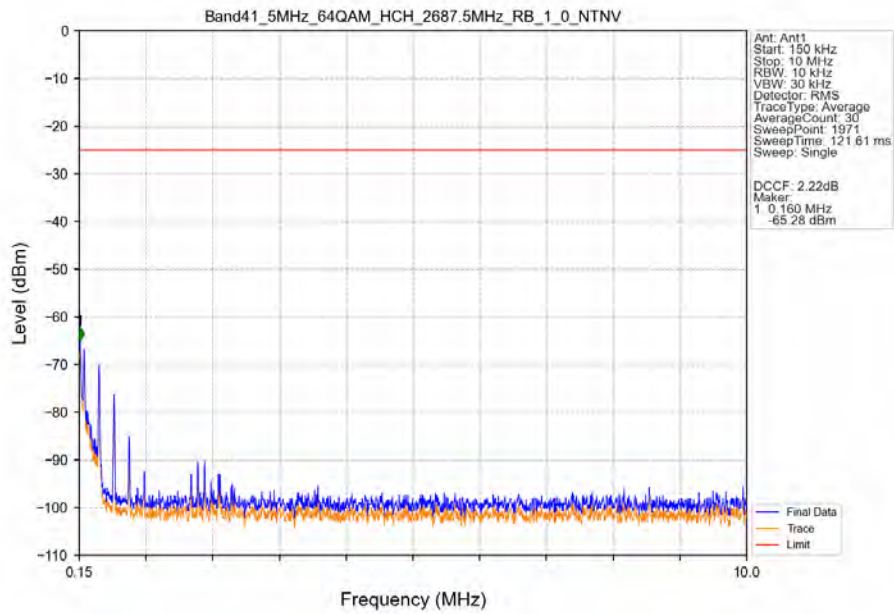
Band41_5MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



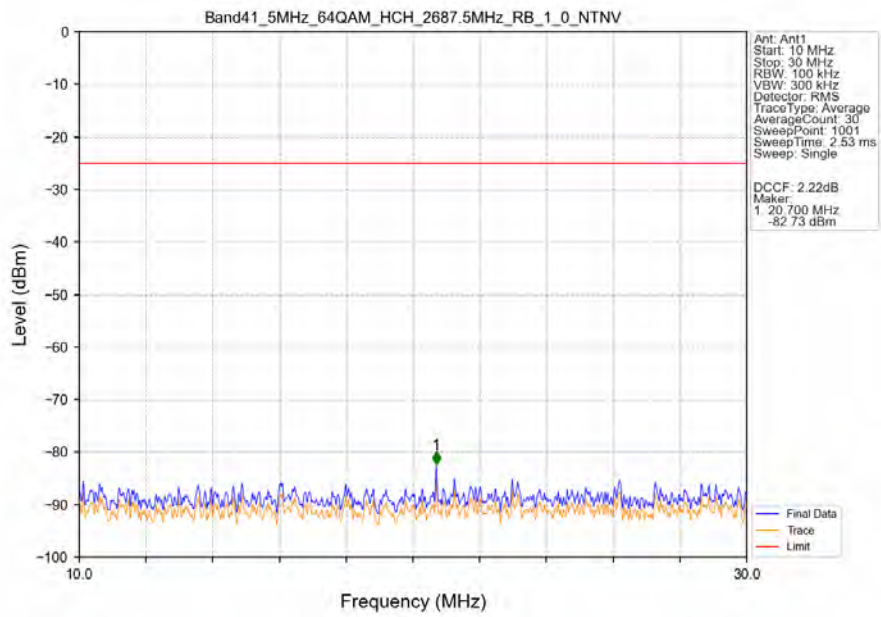
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_0_NTNV



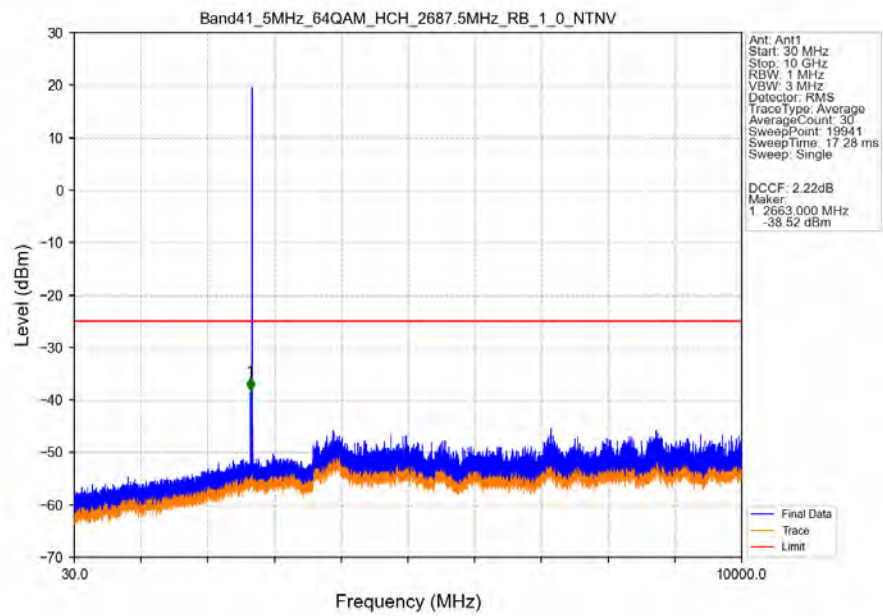
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_0_NTNV



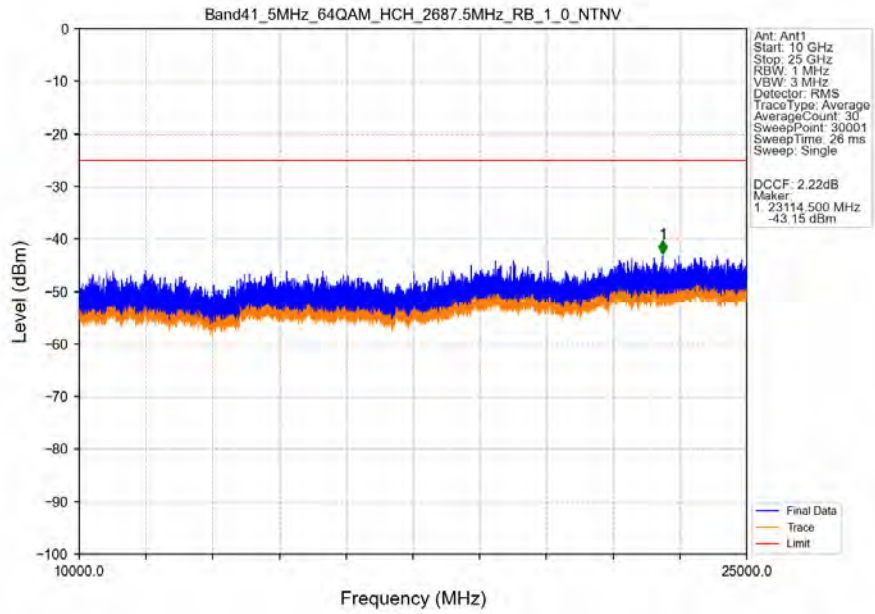
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_0_NTNV



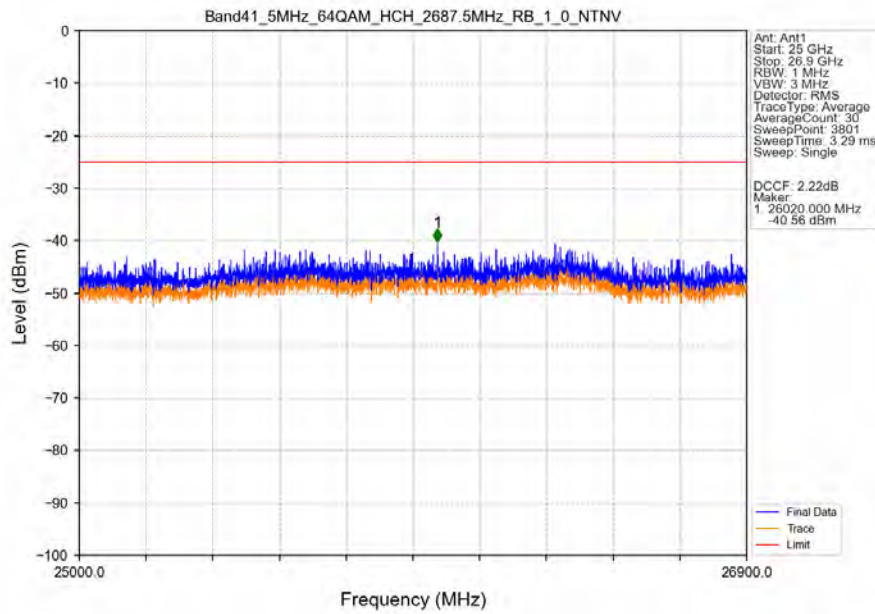
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_0_NTNV



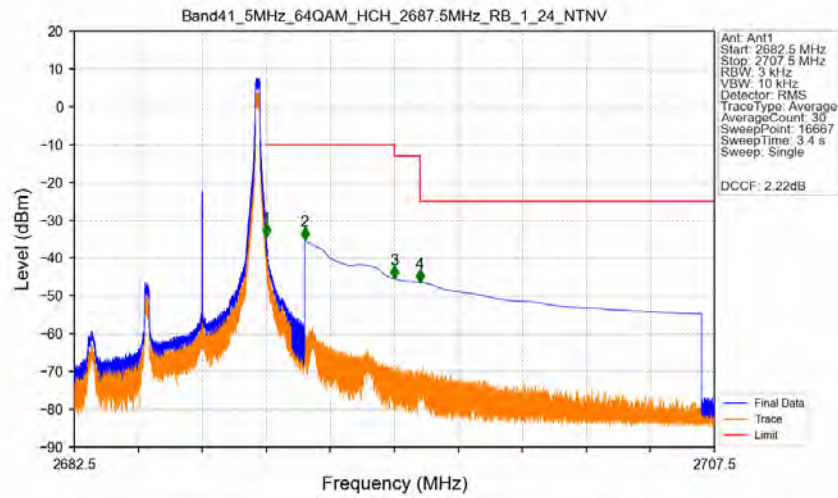
Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_0_NTNV



Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_0_NTNV

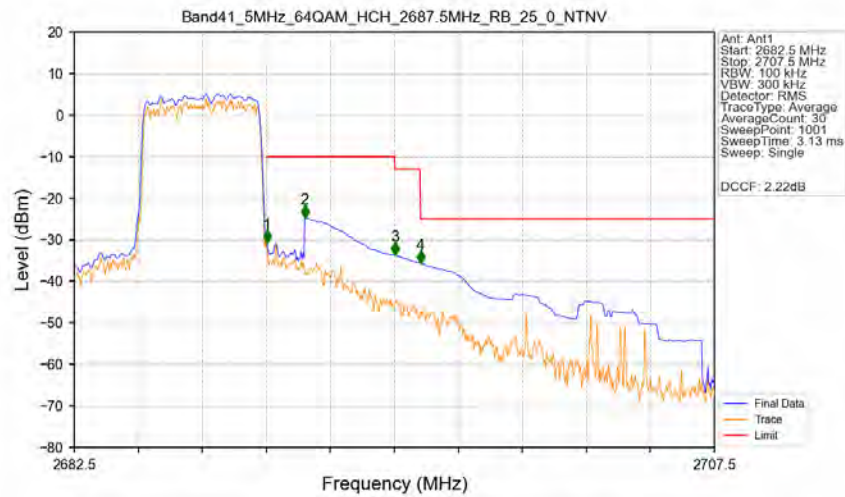


Band41_5MHz_64QAM_HCH_2687.5MHz_RB_1_24_NTNV



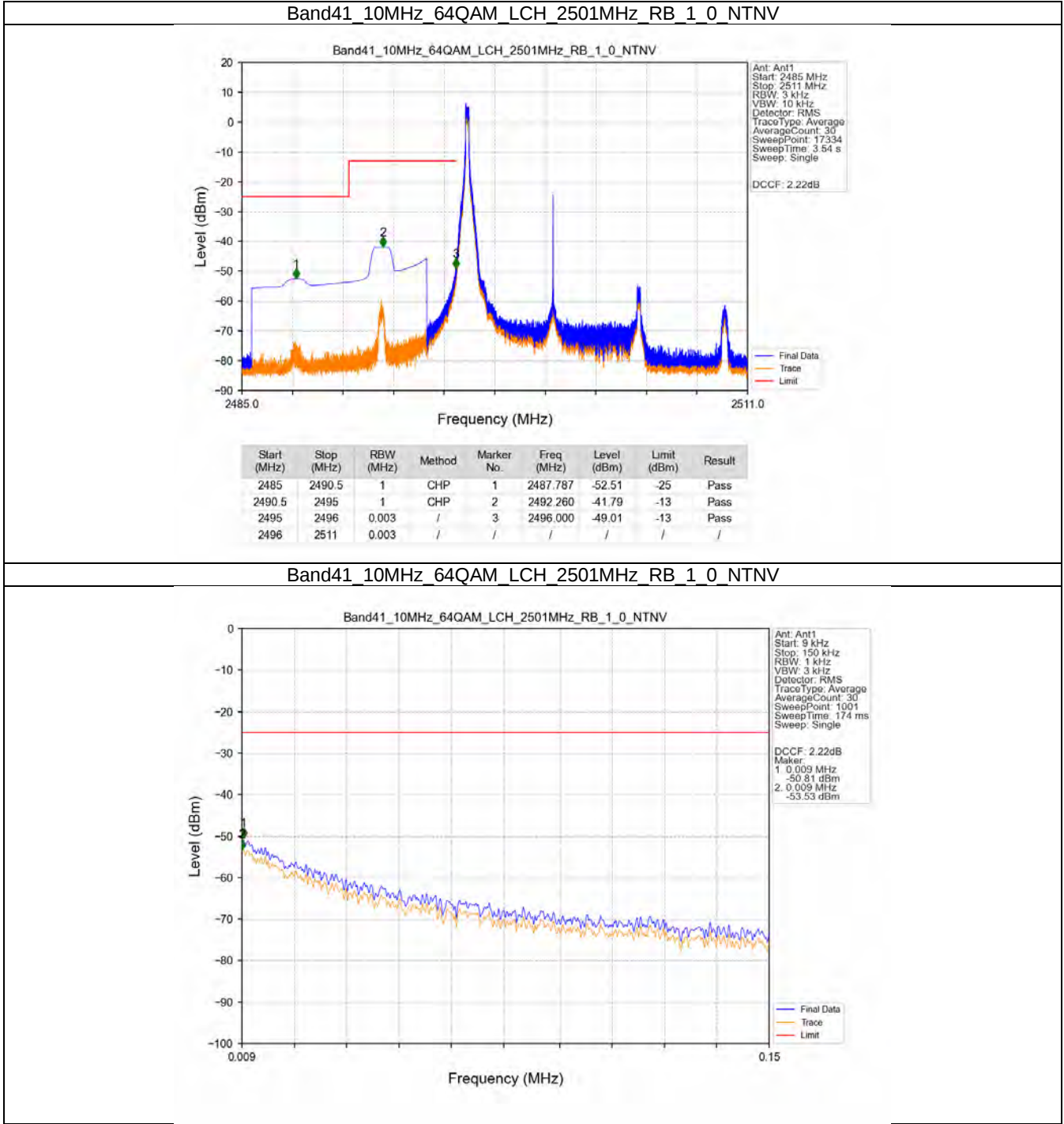
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.006	CHP	/	/	/	/	/
2690	2691	0.006	CHP	1	2690.000	-34.35	-10	Pass
2691	2695	1	CHP	2	2691.500	-35.33	-10	Pass
2695	2696	1	CHP	3	2695.003	-45.51	-13	Pass
2696	2707.5	1	CHP	4	2696.001	-46.41	-25	Pass

Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV

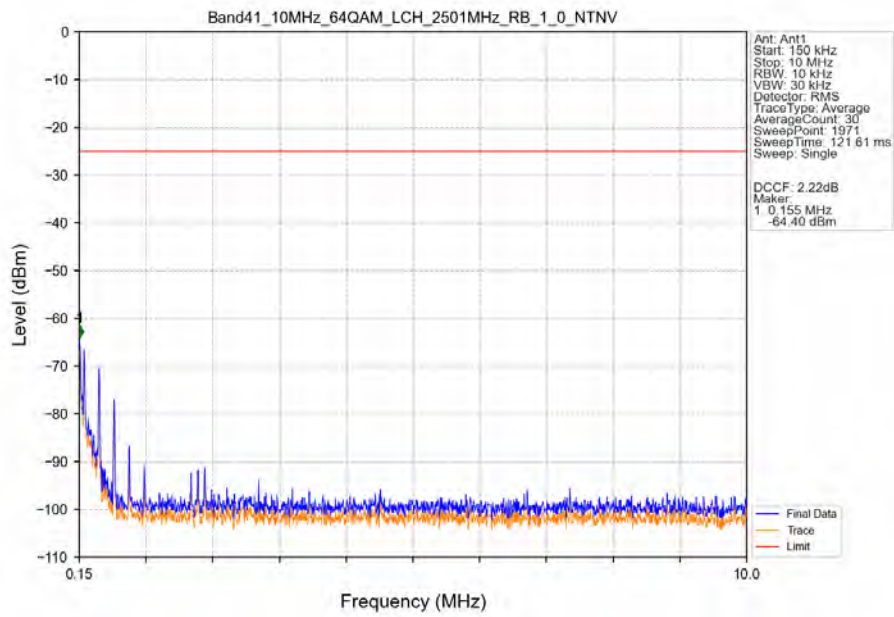


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2682.5	2690	0.113	CHP	/	/	/	/	/
2690	2691	0.113	CHP	1	2690.025	-30.81	-10	Pass
2691	2695	1	CHP	2	2691.500	-24.69	-10	Pass
2695	2696	1	CHP	3	2695.025	-33.73	-13	Pass
2696	2707.5	1	CHP	4	2696.025	-35.63	-25	Pass

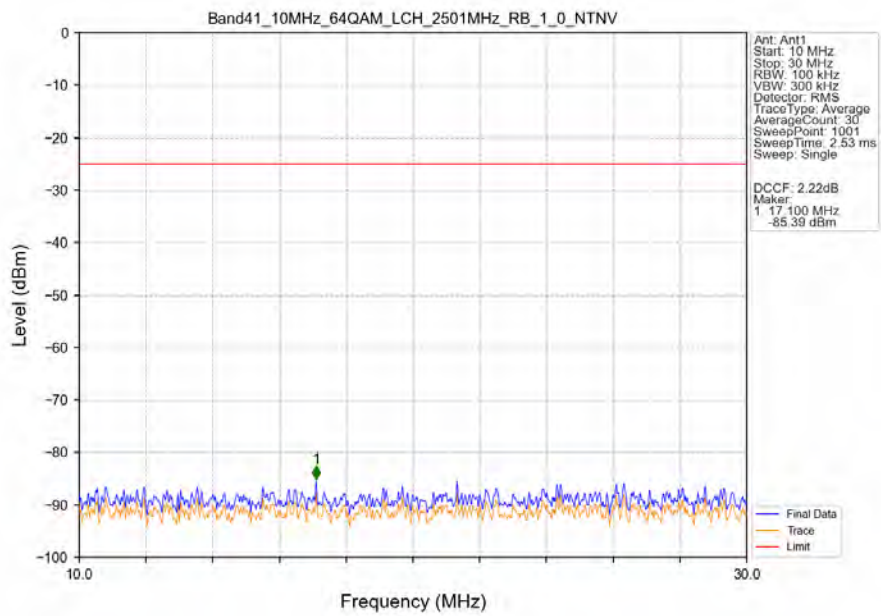
5.2.2 B41_10MHz



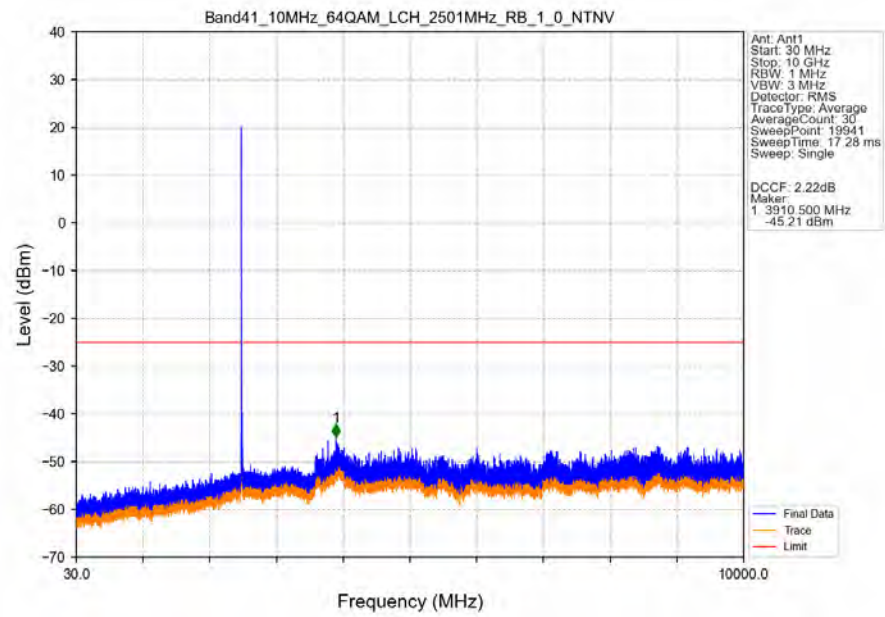
Band41_10MHz_64QAM_LCH_2501MHz_RB_1_0_NTNV



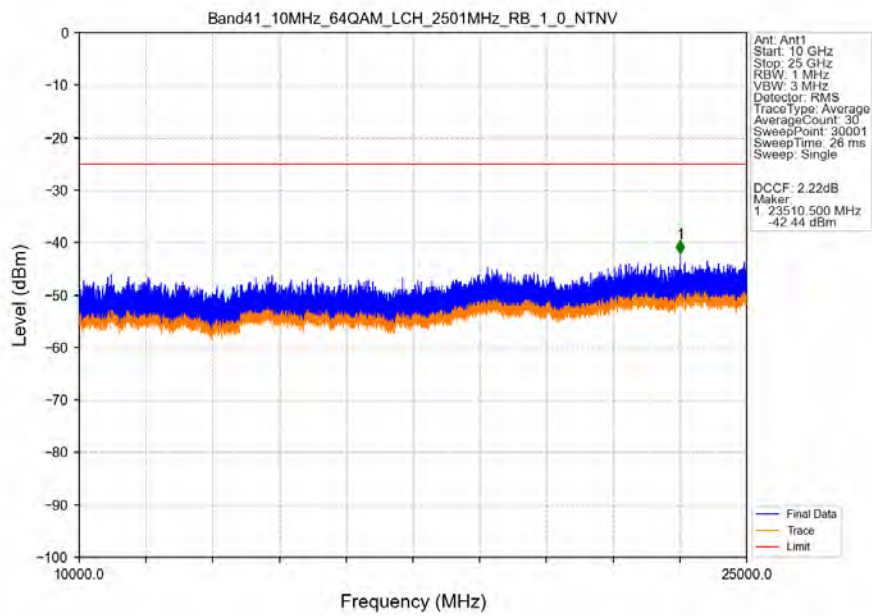
Band41_10MHz_64QAM_LCH_2501MHz_RB_1_0_NTNV



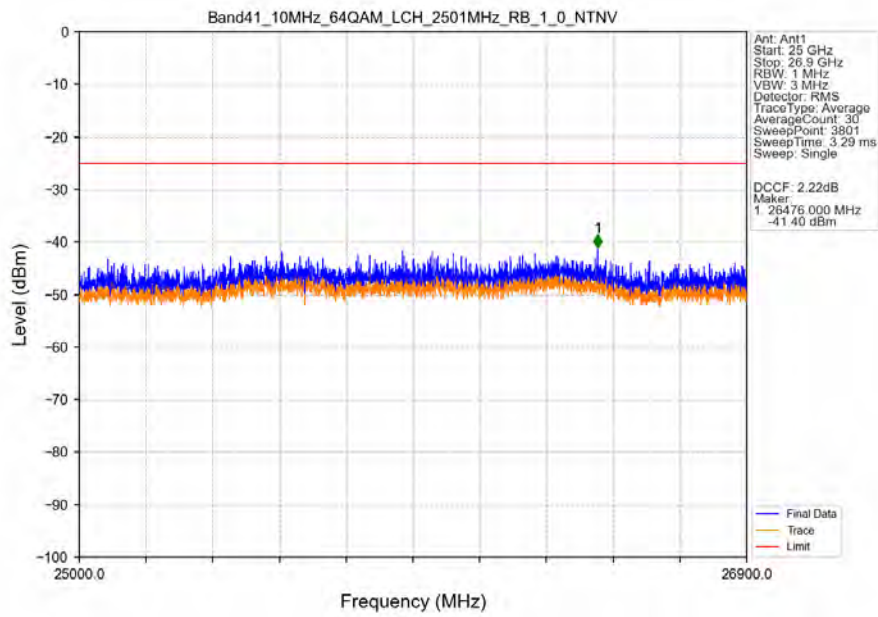
Band41_10MHz_64QAM_LCH_2501MHz_RB_1_0_NTNV



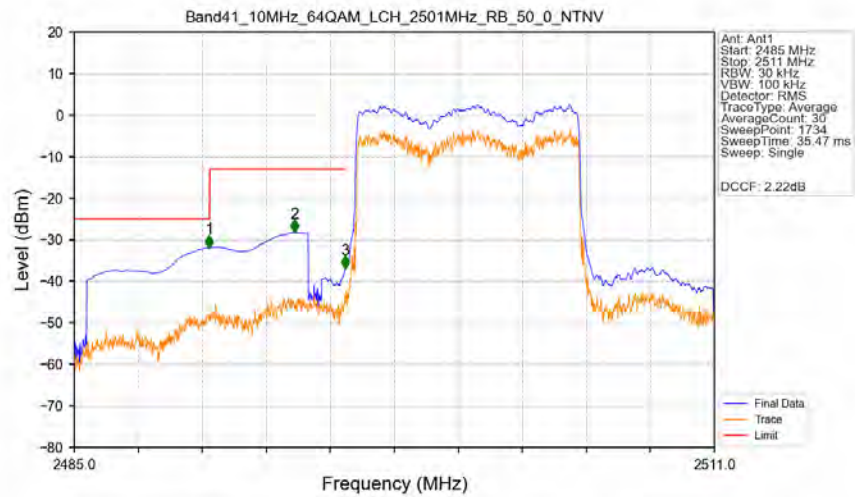
Band41_10MHz_64QAM_LCH_2501MHz_RB_1_0_NTNV



Band41_10MHz_64QAM_LCH_2501MHz_RB_1_0_NTNV

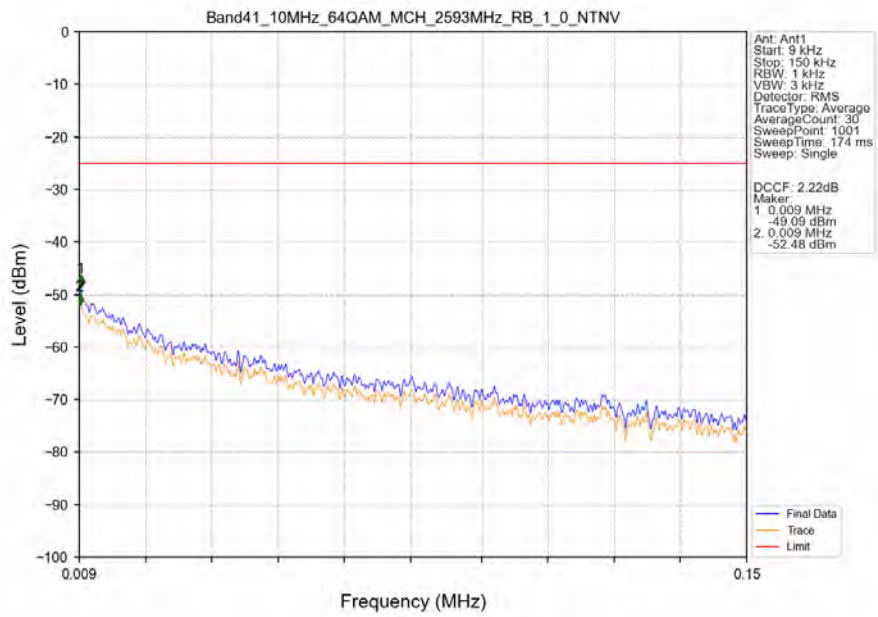


Band41_10MHz_64QAM_LCH_2501MHz_RB_50_0_NTNV

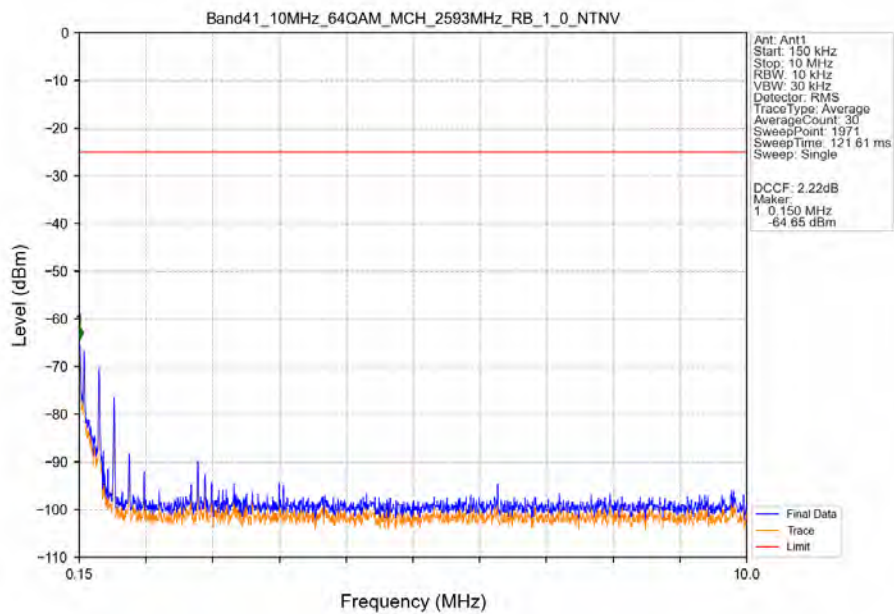


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.476	-31.95	-25	Pass
2490.5	2495	1	CHP	2	2493.942	-28.28	-13	Pass
2495	2496	0.099	CHP	3	2495.997	-37.00	-13	Pass
2496	2511	0.099	CHP	/	/	/	/	/

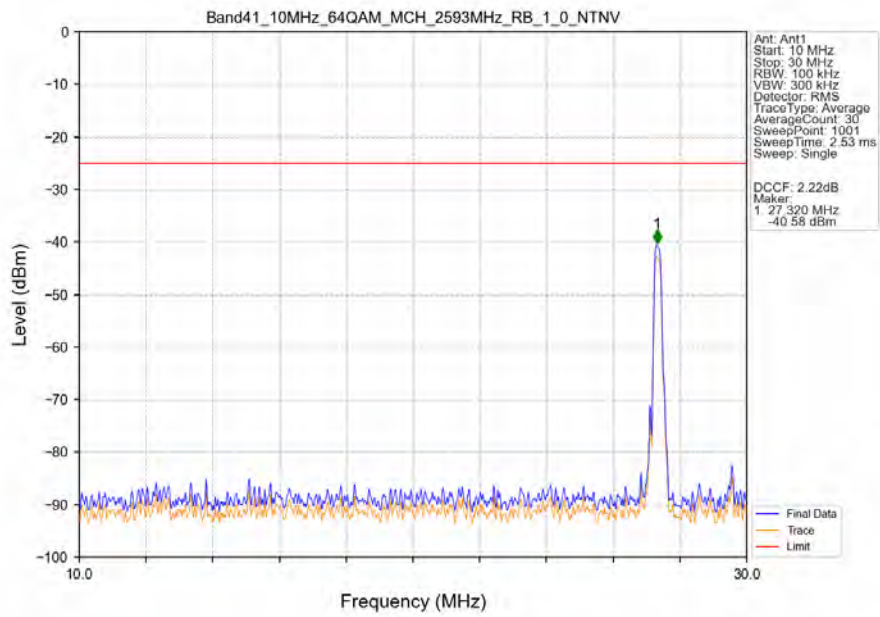
Band41_10MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



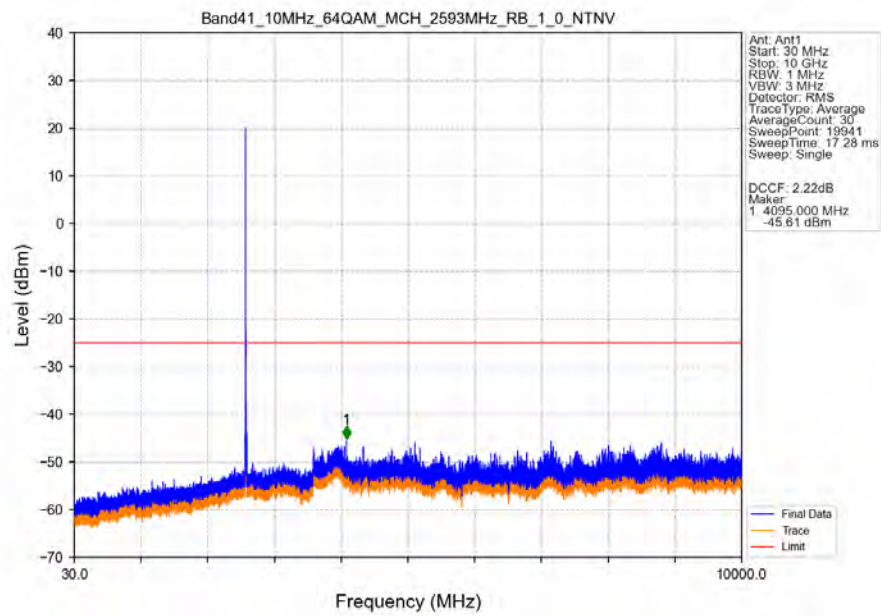
Band41_10MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



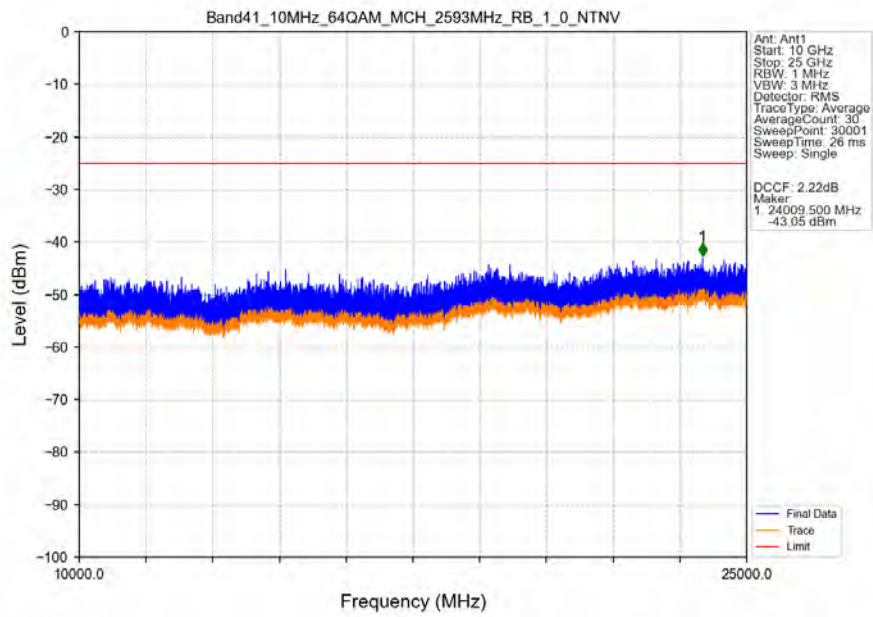
Band41_10MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



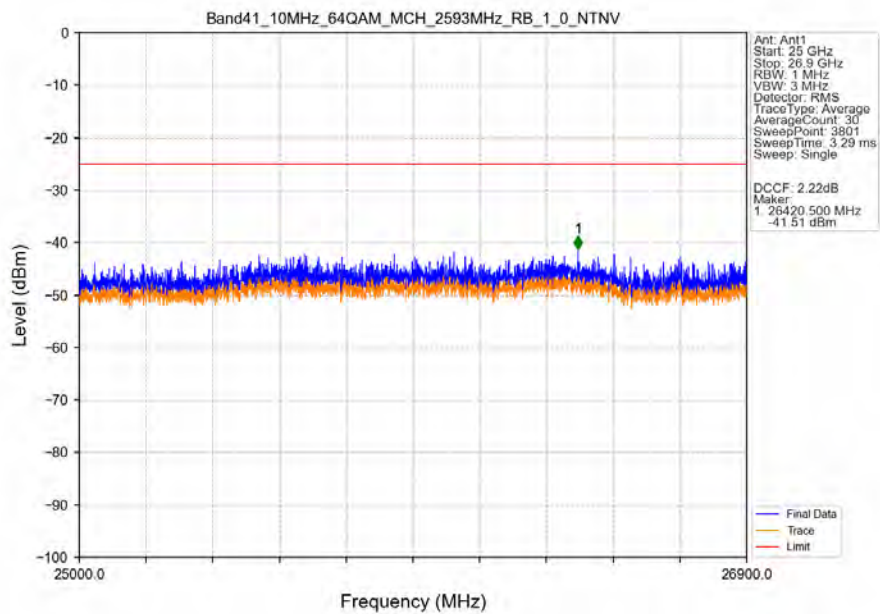
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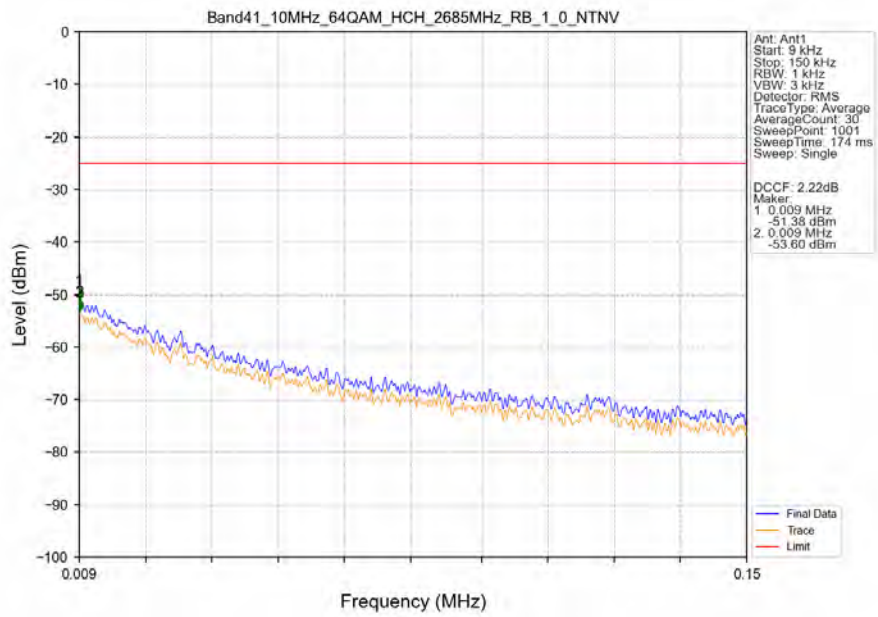
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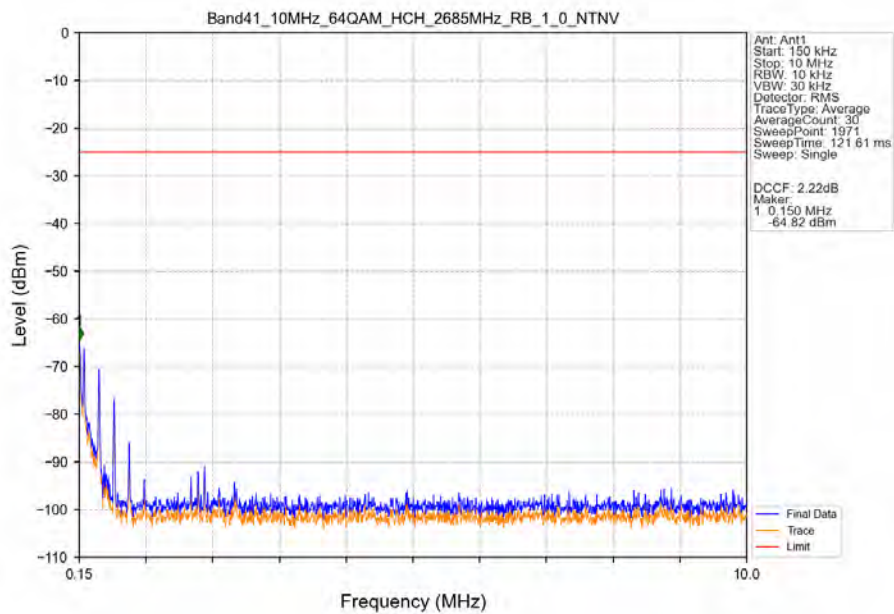
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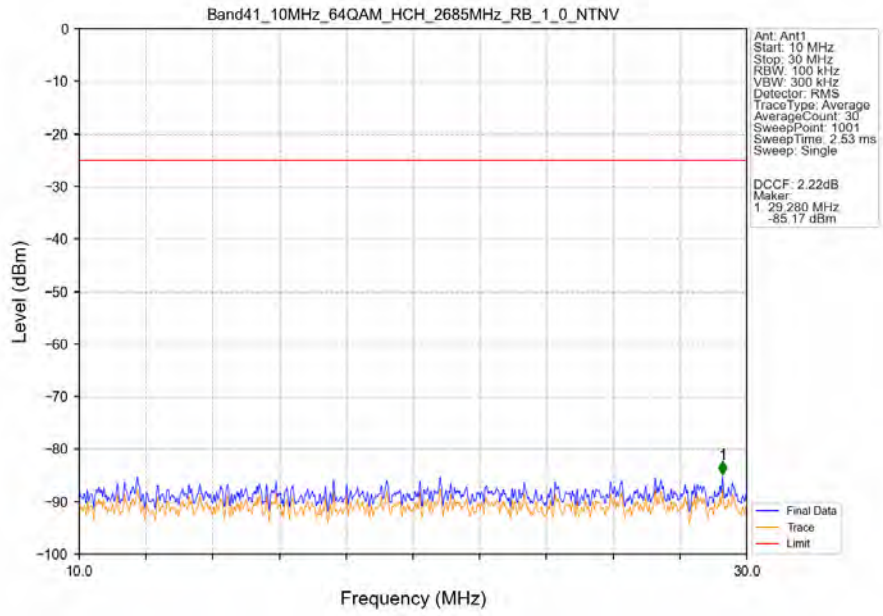
Band41_10MHz_64QAM_HCH_2685MHz_RB_1_0_NTNV



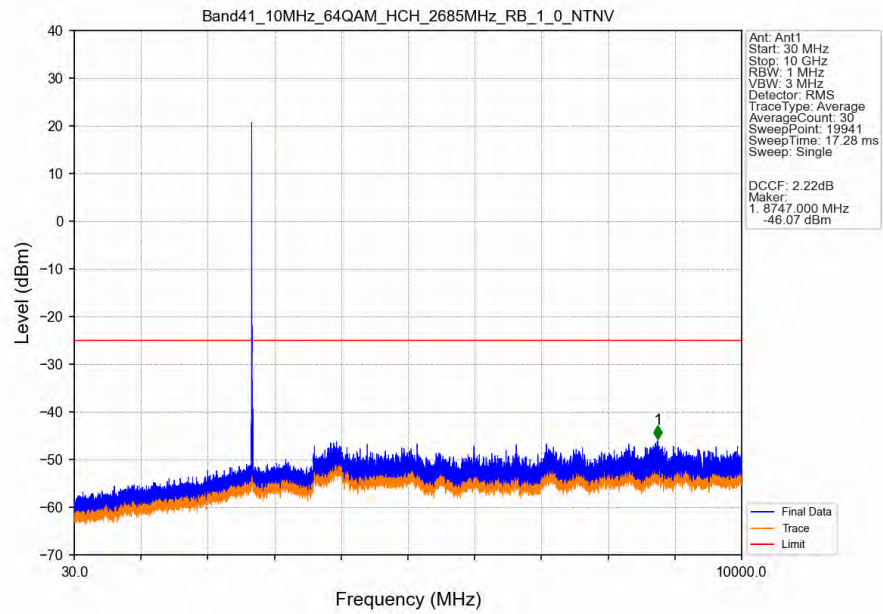
Band41_10MHz_64QAM_HCH_2685MHz_RB_1_0_NTNV



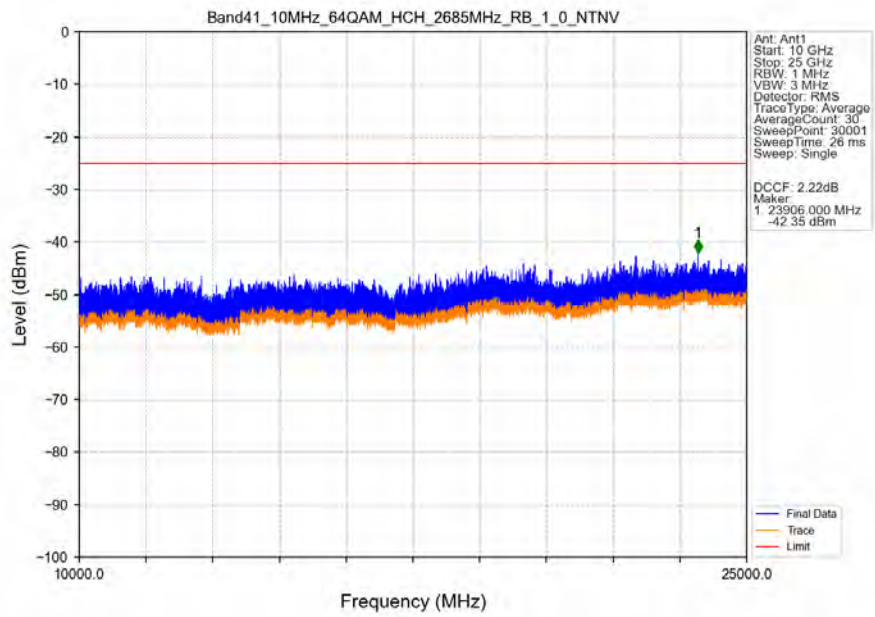
Band41_10MHz_64QAM_HCH_2685MHz_RB_1_0_NTNV



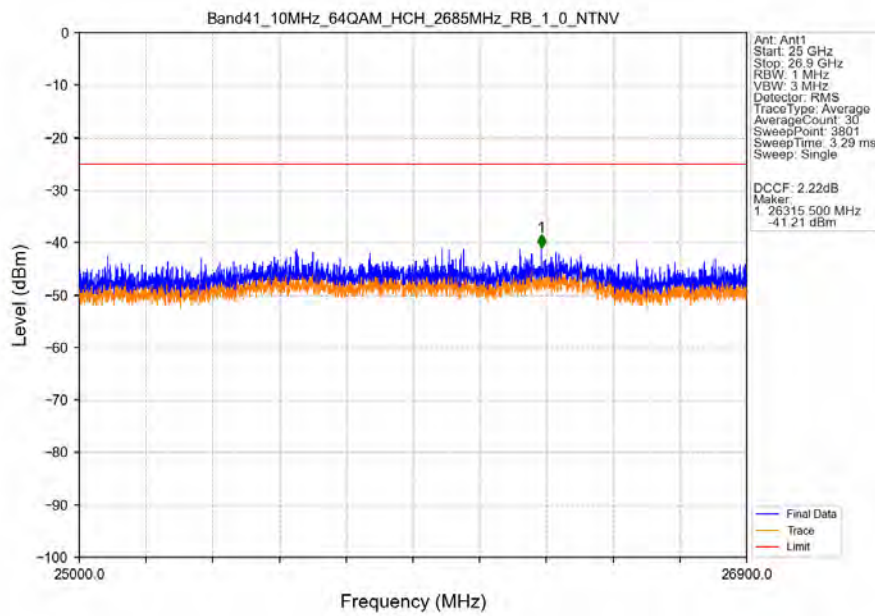
Band41_10MHz_64QAM_HCH_2685MHz_RB_1_0_NTNV



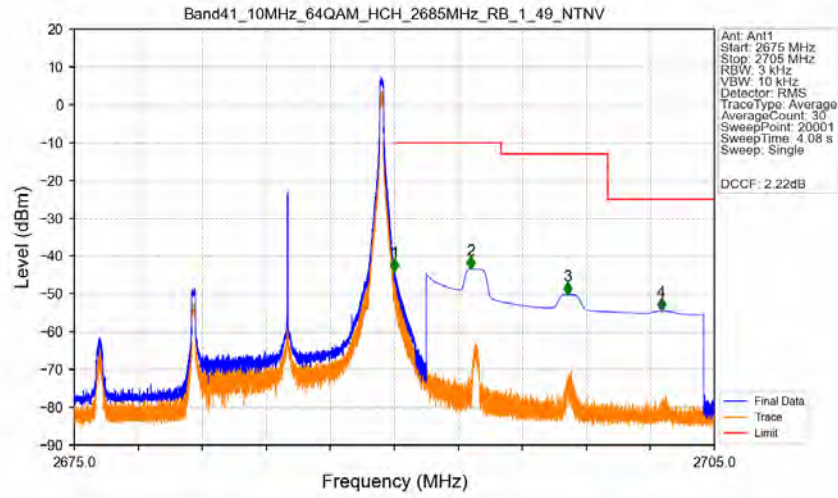
Band41_10MHz_64QAM_HCH_2685MHz_RB_1_0_NTNV



Band41_10MHz_64QAM_HCH_2685MHz_RB_1_0_NTNV

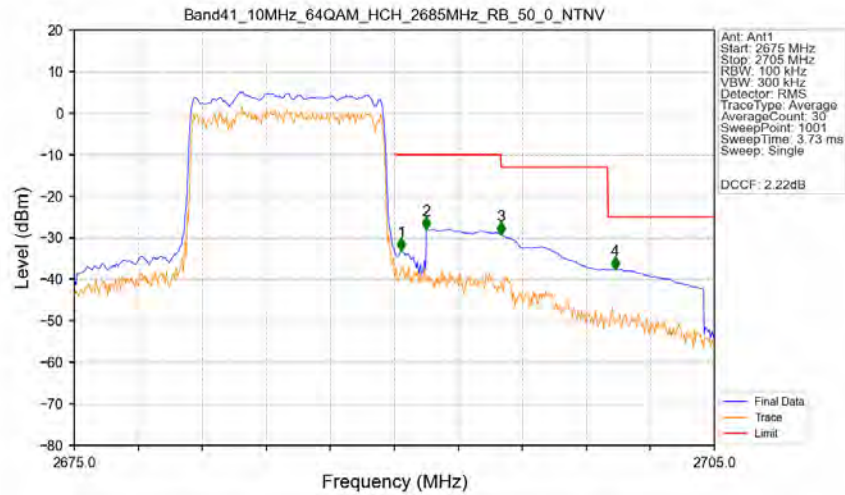


Band41_10MHz_64QAM_HCH_2685MHz_RB_1_49_NTNV



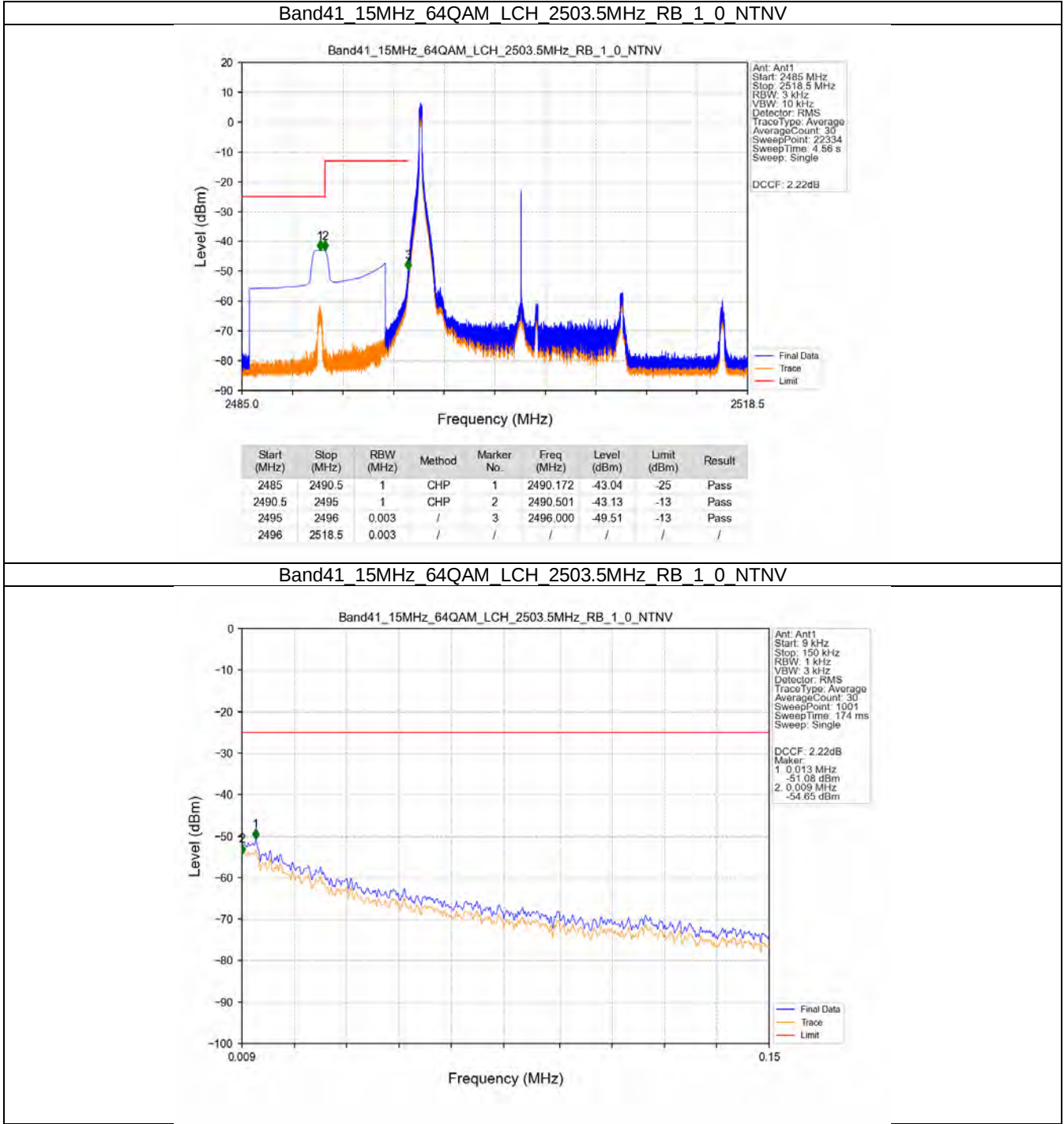
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.006	CHP	/	/	/	/	/
2690	2691	0.006	CHP	1	2690.009	-44.14	-10	Pass
2691	2695	1	CHP	2	2693.582	-43.51	-10	Pass
2695	2700	1	CHP	3	2698.128	-50.18	-13	Pass
2700	2705	1	CHP	4	2702.517	-54.57	-25	Pass

Band41_10MHz_64QAM_HCH_2685MHz_RB_50_0_NTNV

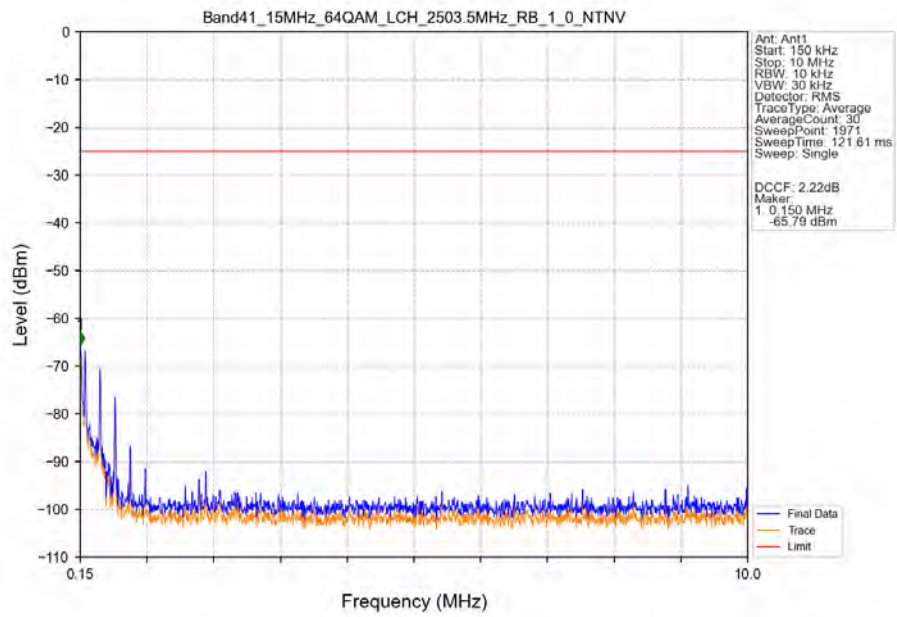


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2675	2690	0.198	CHP	/	/	/	/	/
2690	2691	0.198	CHP	1	2690.330	-33.15	-10	Pass
2691	2695	1	CHP	2	2691.500	-27.99	-10	Pass
2695	2700	1	CHP	3	2695.010	-29.27	-13	Pass
2700	2705	1	CHP	4	2700.350	-37.65	-25	Pass

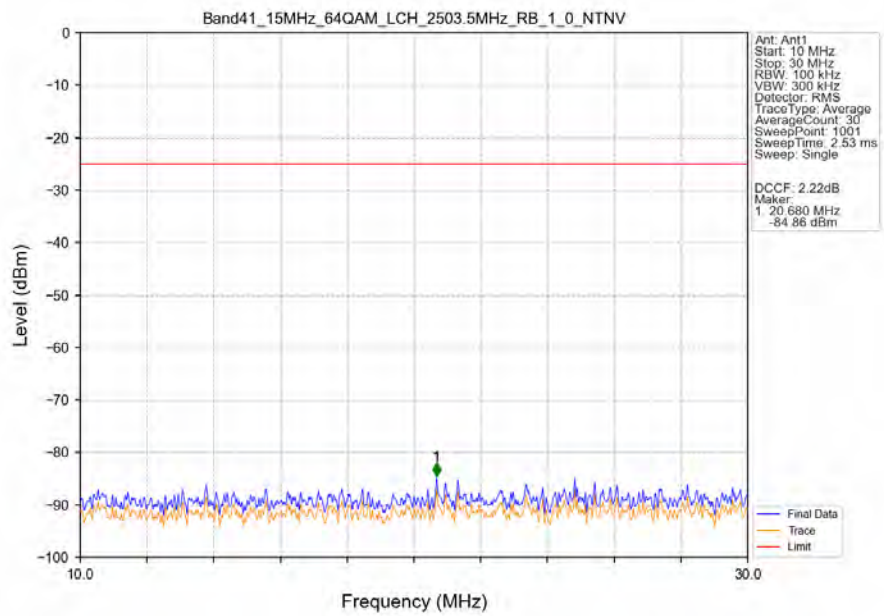
5.2.3 B41_15MHz



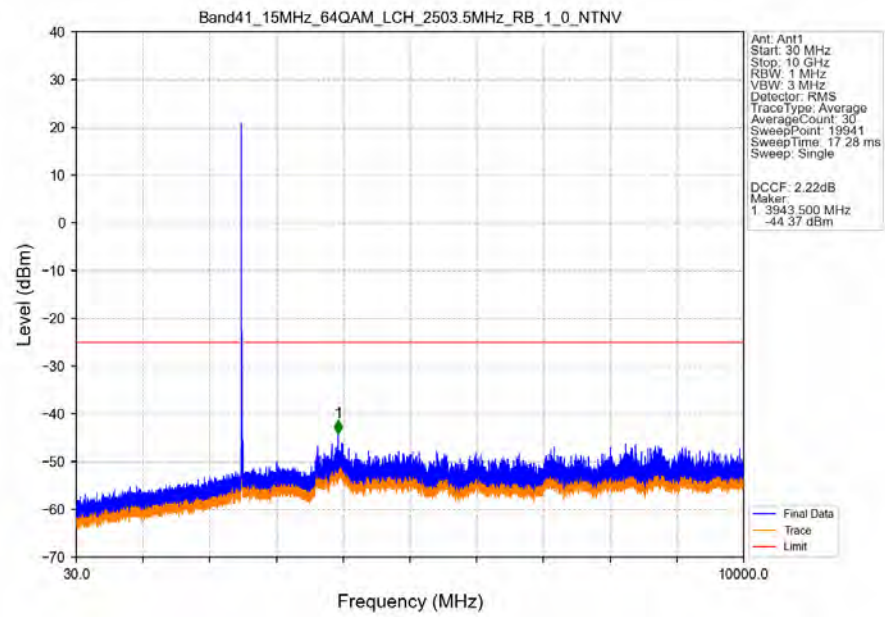
Band41_15MHz_64QAM_LCH_2503.5MHz_RB_1_0_NTNV



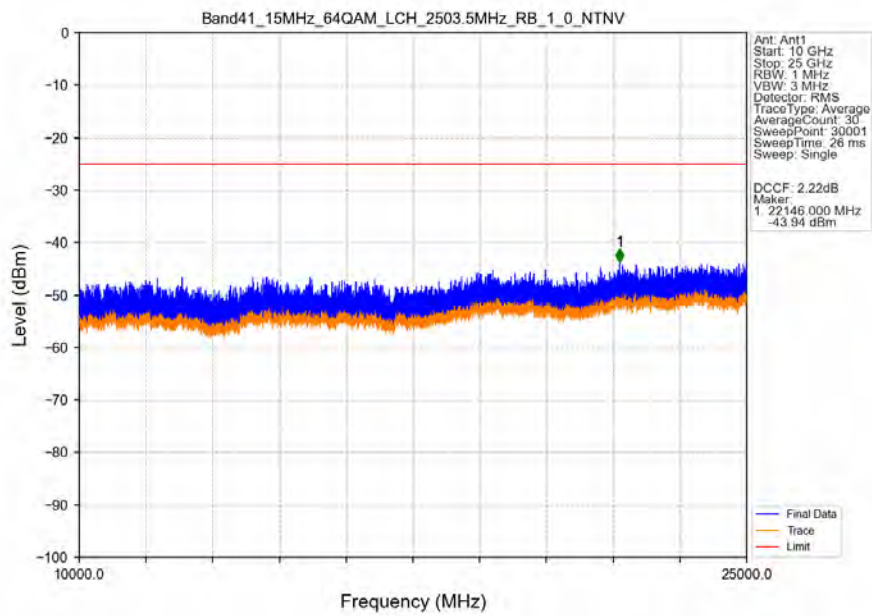
Band41_15MHz_64QAM_LCH_2503.5MHz_RB_1_0_NTNV



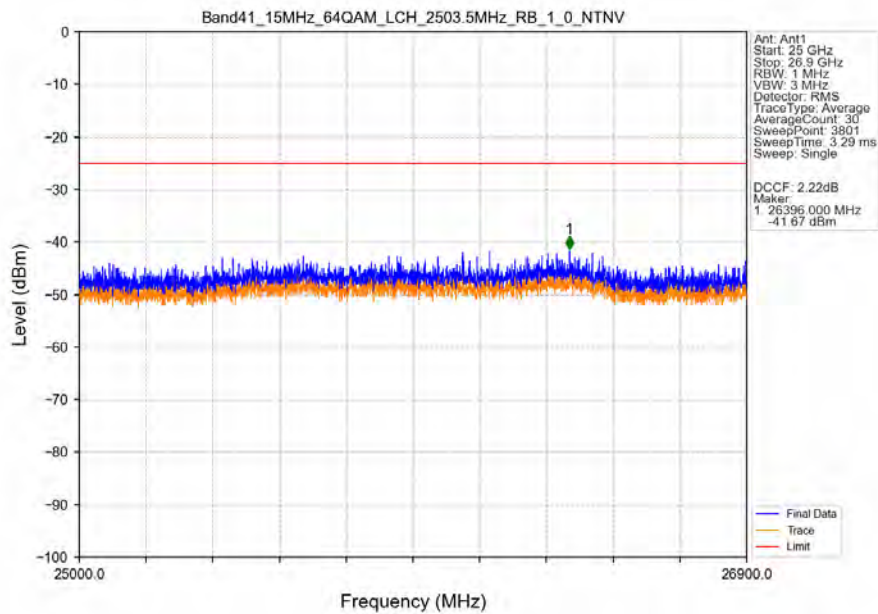
Band41_15MHz_64QAM_LCH_2503.5MHz_RB_1_0_NTNV



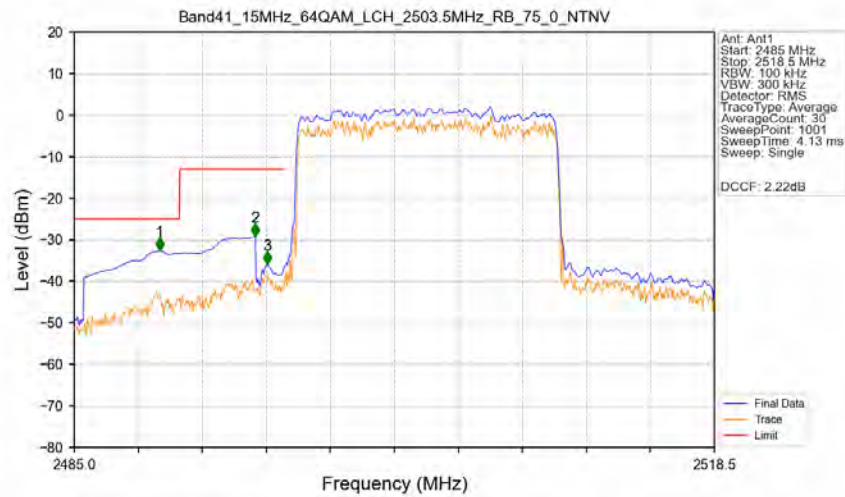
Band41_15MHz_64QAM_LCH_2503.5MHz_RB_1_0_NTNV



Band41_15MHz_64QAM_LCH_2503.5MHz_RB_1_0_NTNV

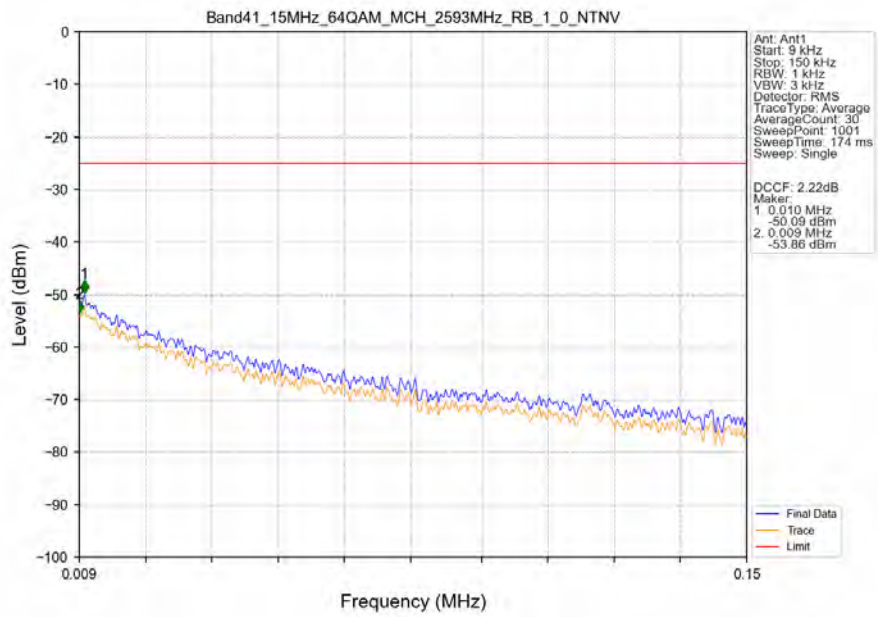


Band41_15MHz_64QAM_LCH_2503.5MHz_RB_75_0_NTNV

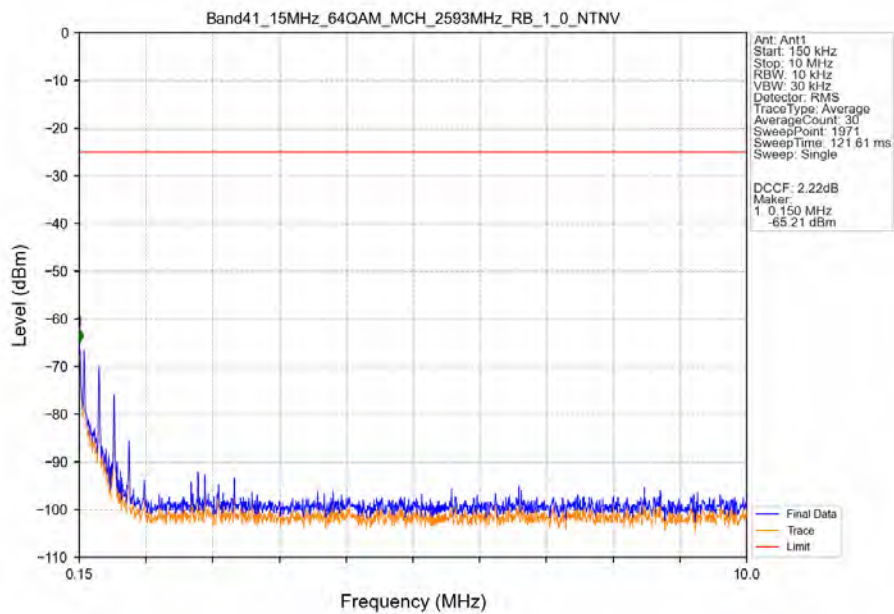


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.456	-32.61	-25	Pass
2490.5	2495	1	CHP	2	2494.481	-29.20	-13	Pass
2495	2496	0.148	CHP	3	2495.084	-35.78	-13	Pass
2496	2518.5	0.148	CHP	/	/	/	/	/

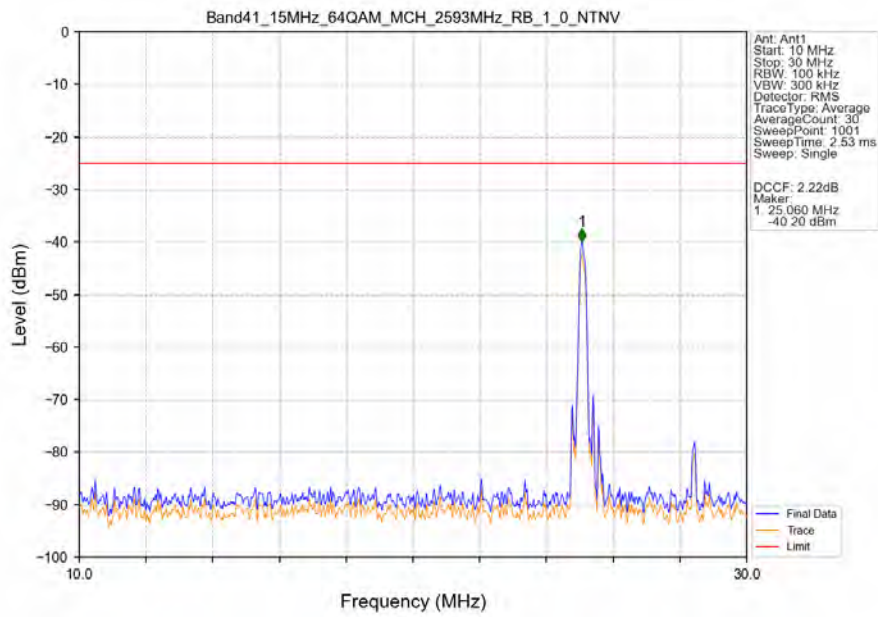
Band41_15MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



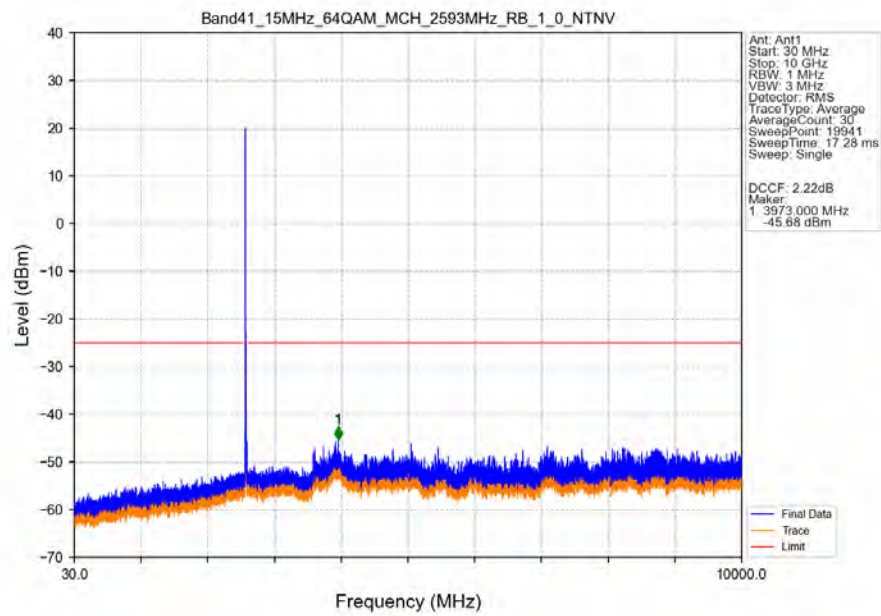
Band41_15MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



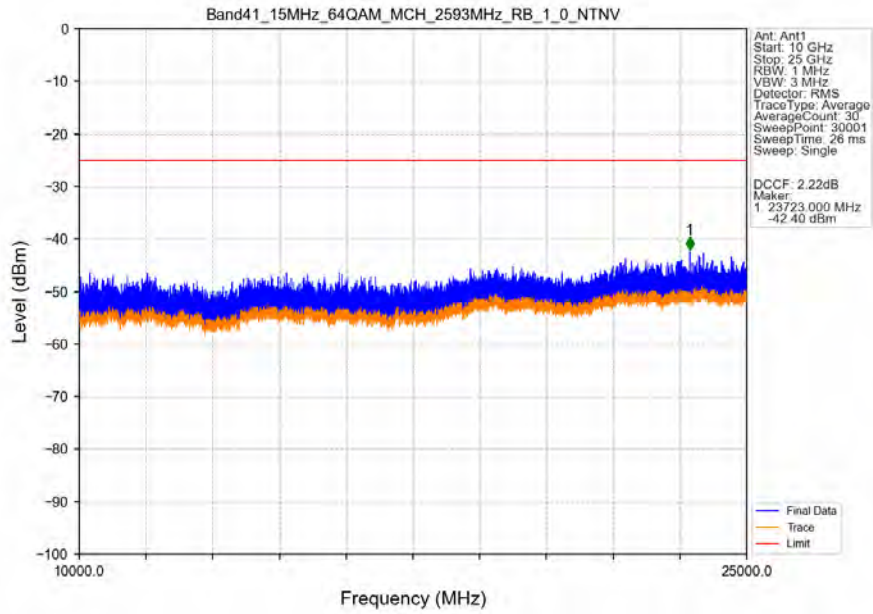
Band41_15MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



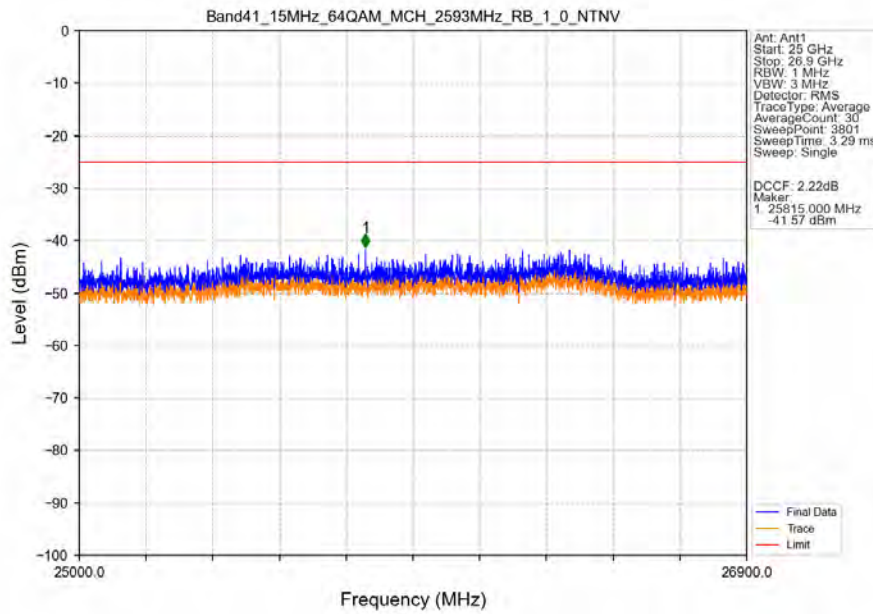
Band41_15MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



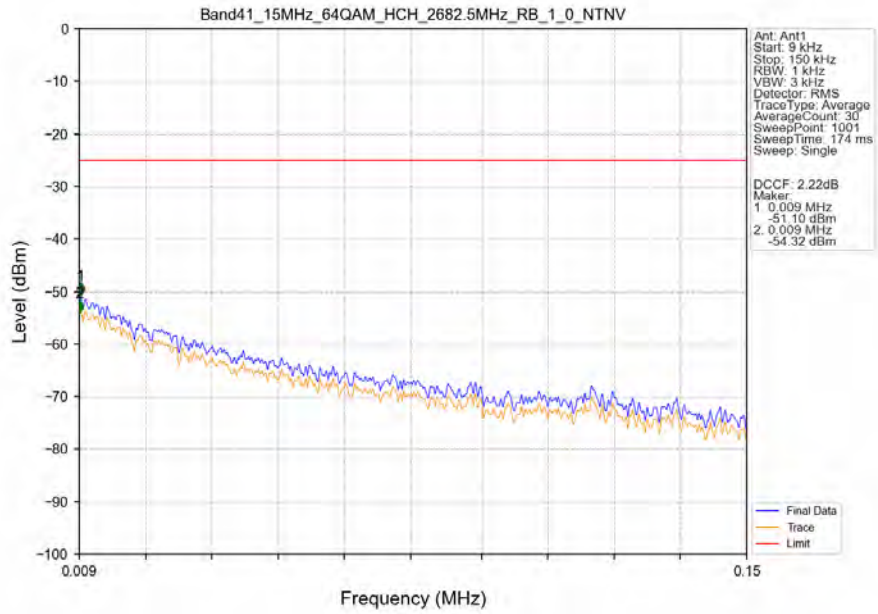
Band41_15MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



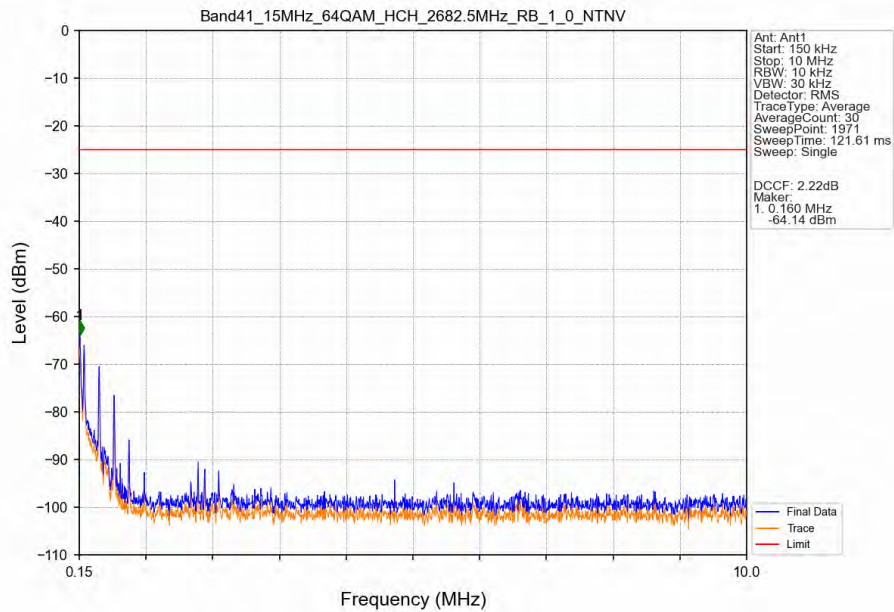
Band41_15MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



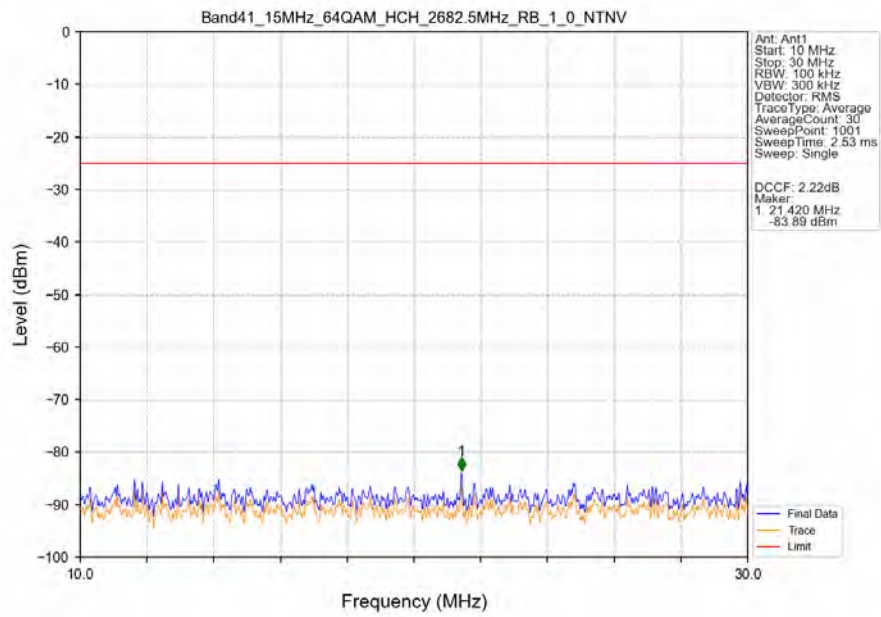
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_0_NTNV



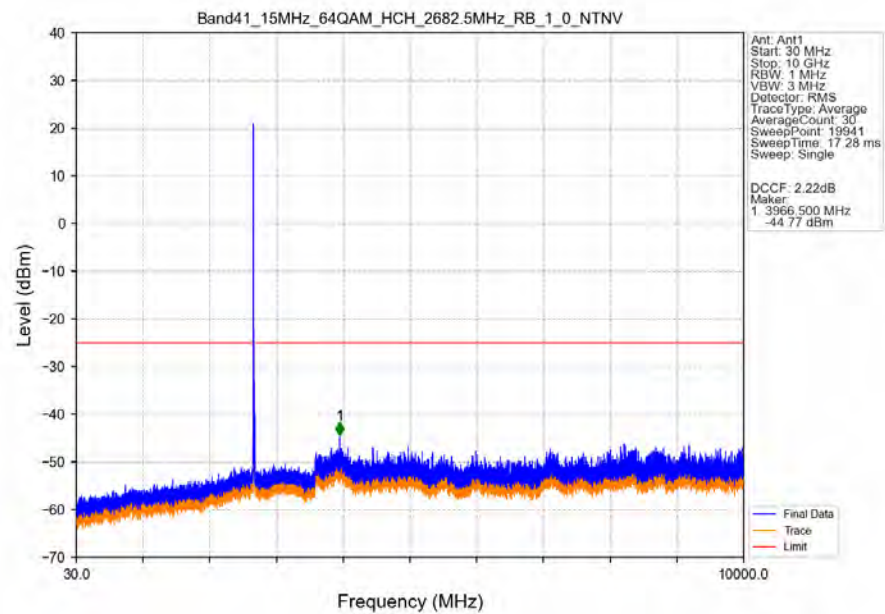
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_0_NTNV



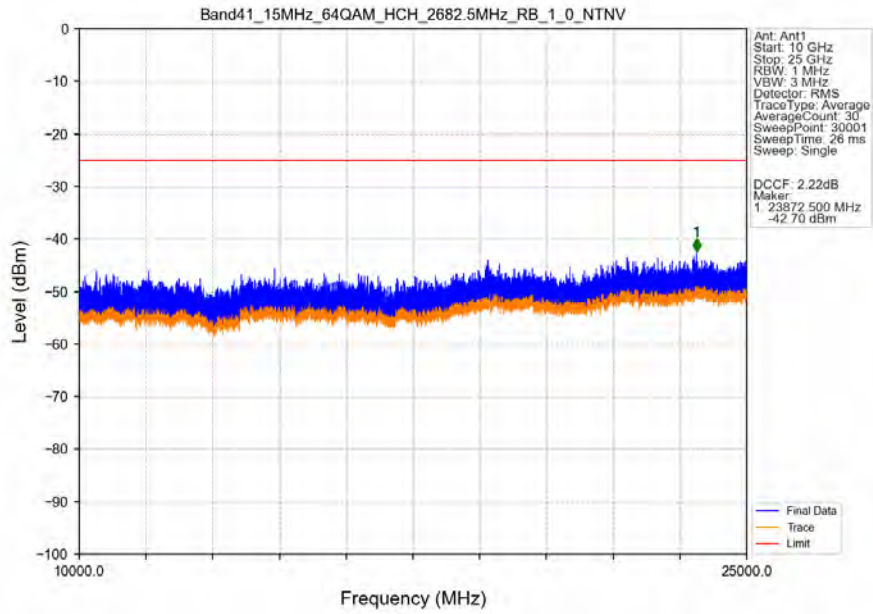
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_0_NTNV



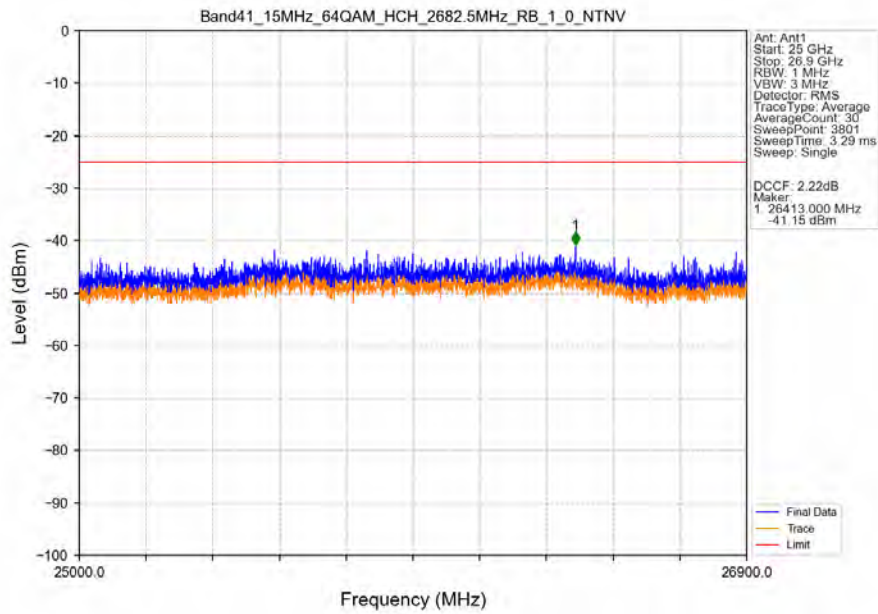
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_0_NTNV



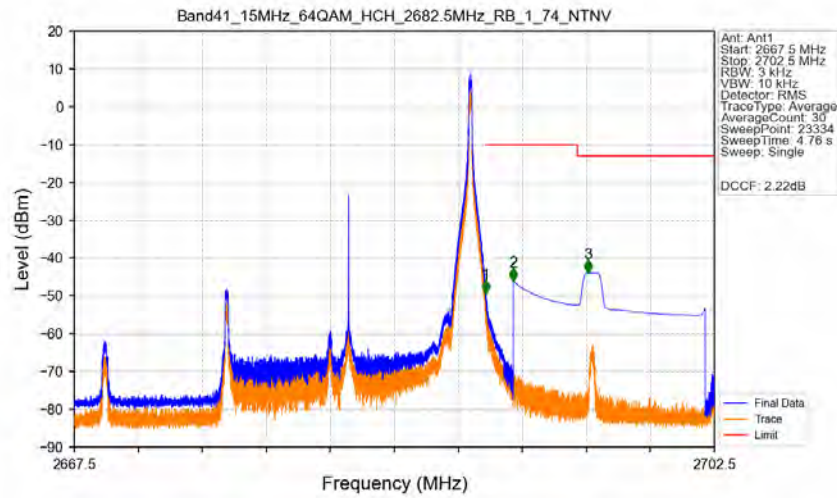
Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_0_NTNV



Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_0_NTNV

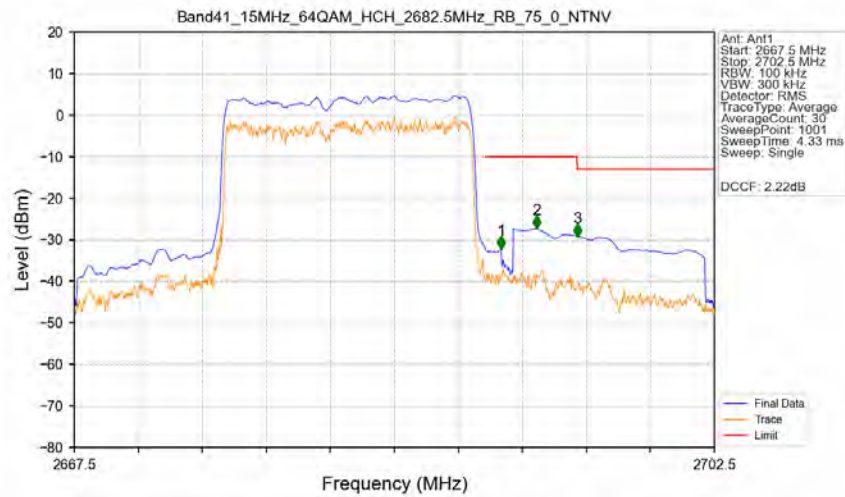


Band41_15MHz_64QAM_HCH_2682.5MHz_RB_1_74_NTNV



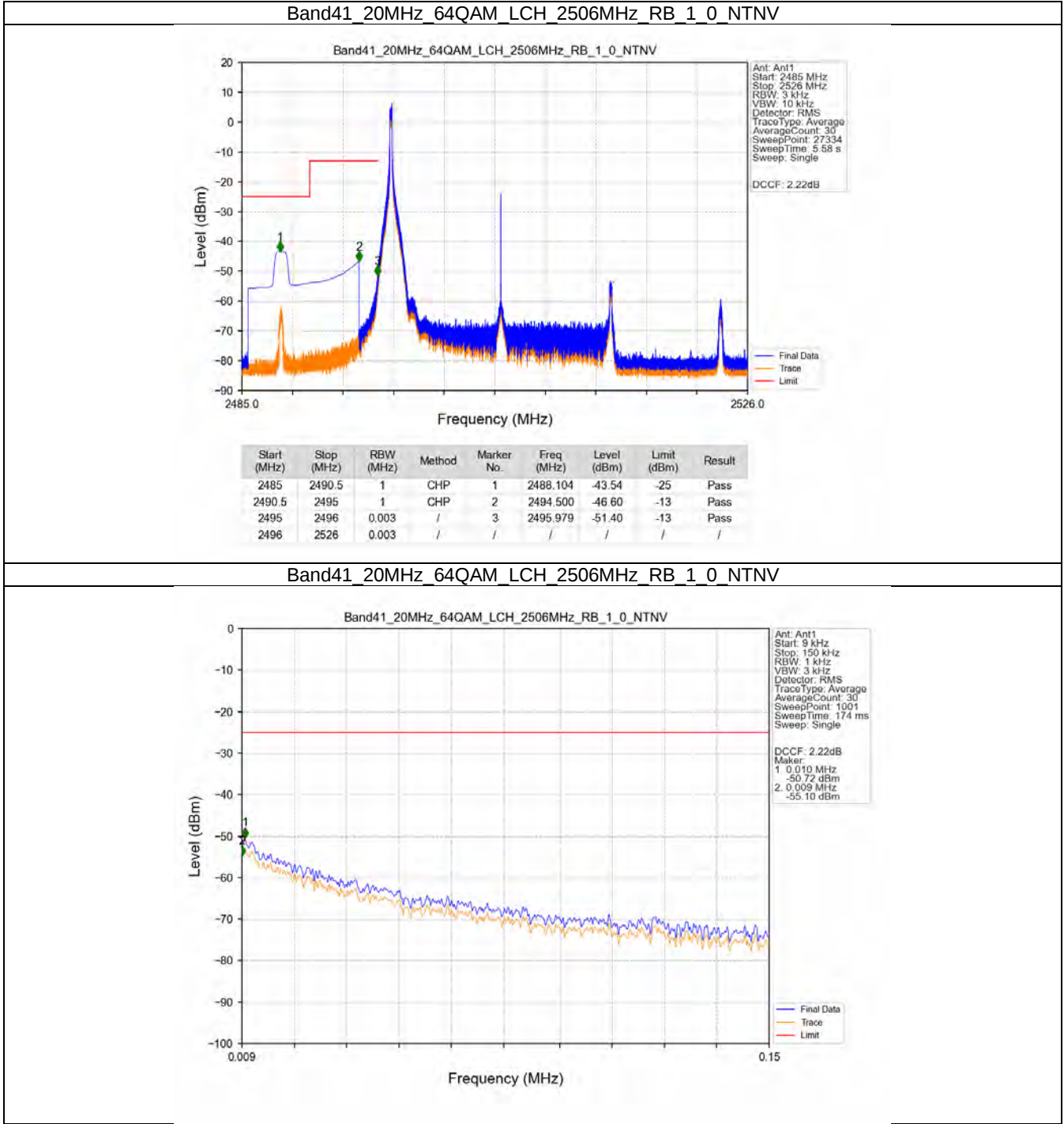
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2667.5	2690	0.006	CHP	/	/	/	/	/
2690	2691	0.006	CHP	1	2690.006	-49.27	-10	Pass
2691	2695	1	CHP	2	2691.500	-46.04	-10	Pass
2695	2702.5	1	CHP	3	2695.589	-43.94	-13	Pass

Band41_15MHz_64QAM_HCH_2682.5MHz_RB_75_0_NTNV

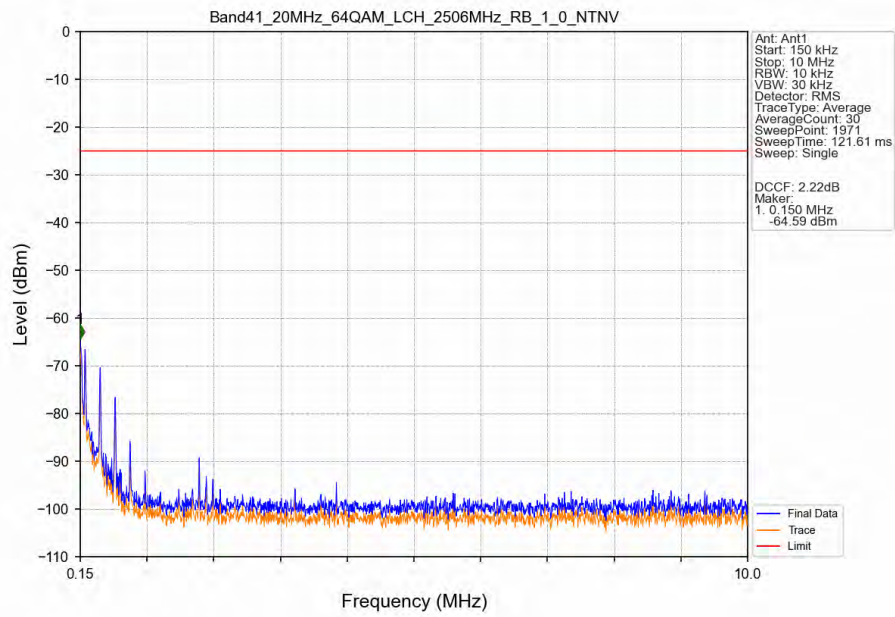


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2667.5	2690	0.298	CHP	/	/	/	/	/
2690	2691	0.298	CHP	1	2690.845	-32.14	-10	Pass
2691	2695	1	CHP	2	2692.770	-27.35	-10	Pass
2695	2702.5	1	CHP	3	2695.010	-29.23	-13	Pass

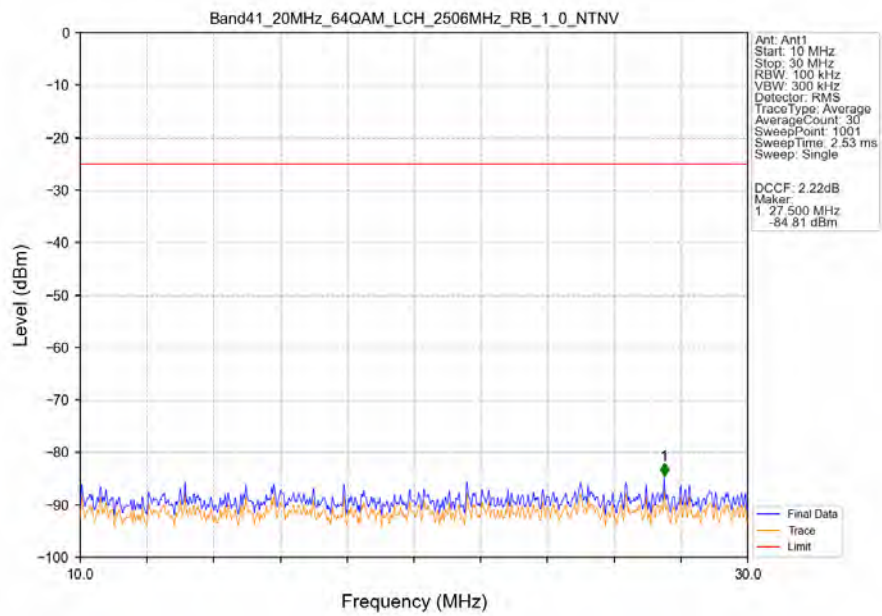
5.2.4 B41_20MHz



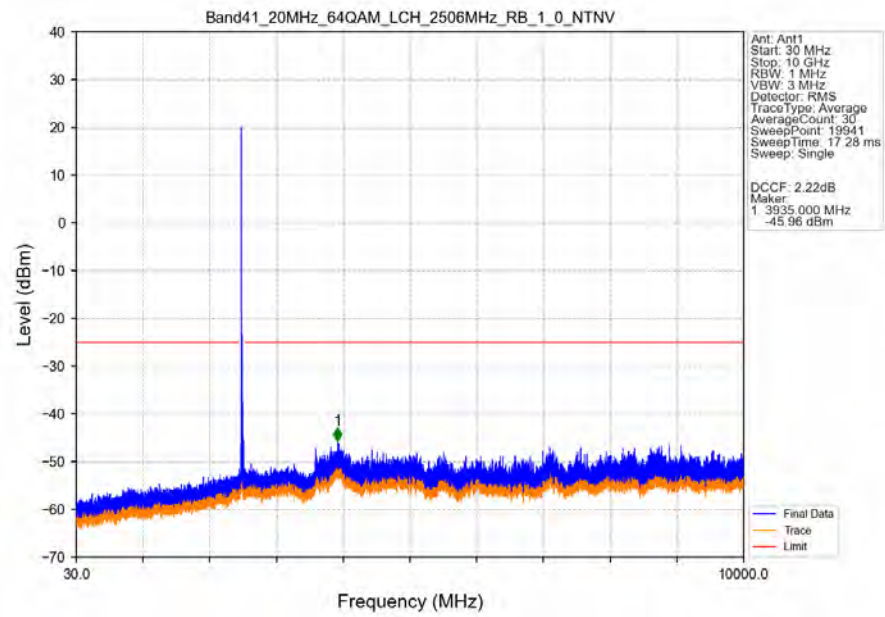
Band41_20MHz_64QAM_LCH_2506MHz_RB_1_0_NTNV



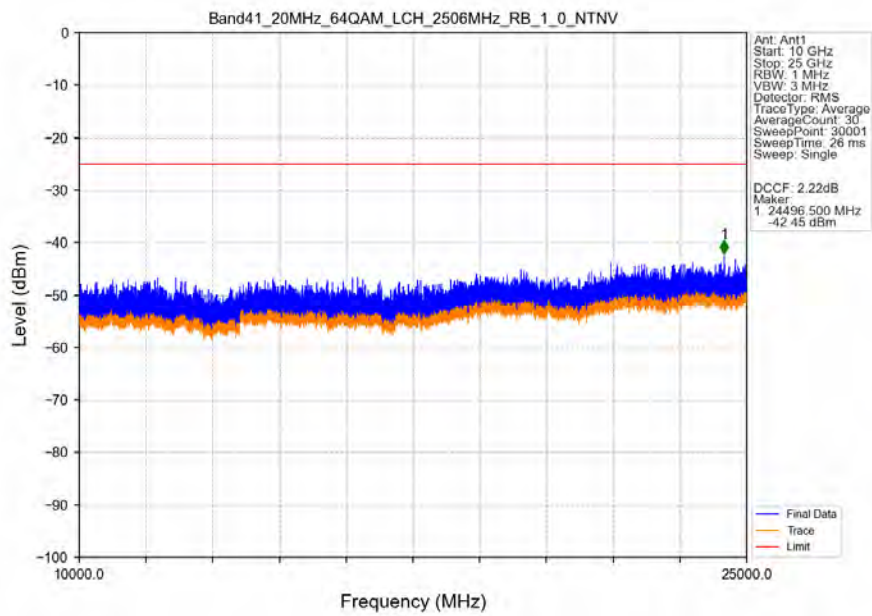
Band41_20MHz_64QAM_LCH_2506MHz_RB_1_0_NTNV



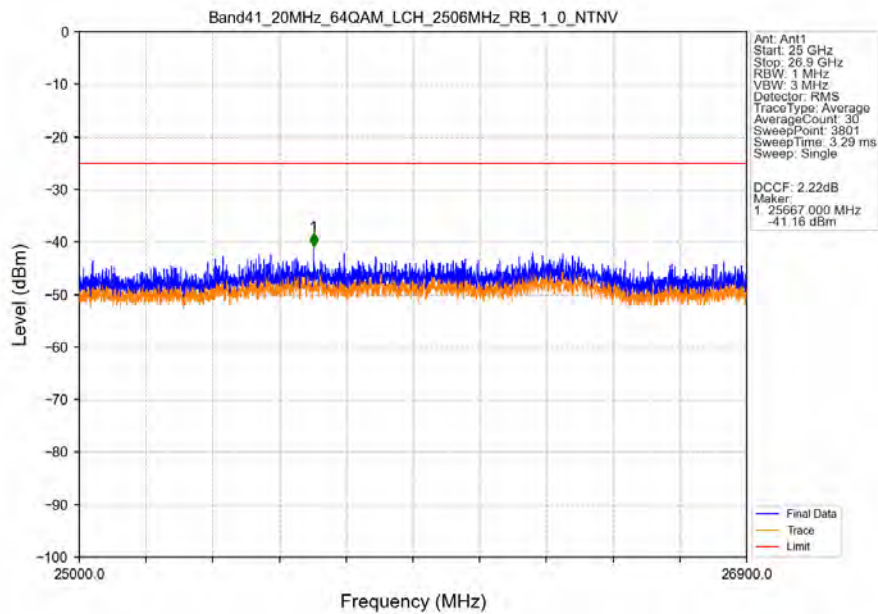
Band41_20MHz_64QAM_LCH_2506MHz_RB_1_0_NTNV



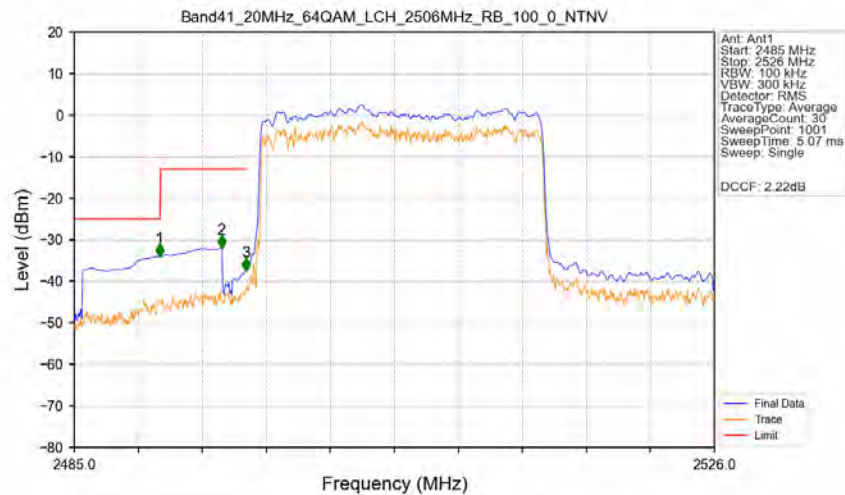
Band41_20MHz_64QAM_LCH_2506MHz_RB_1_0_NTNV



Band41_20MHz_64QAM_LCH_2506MHz_RB_1_0_NTNV

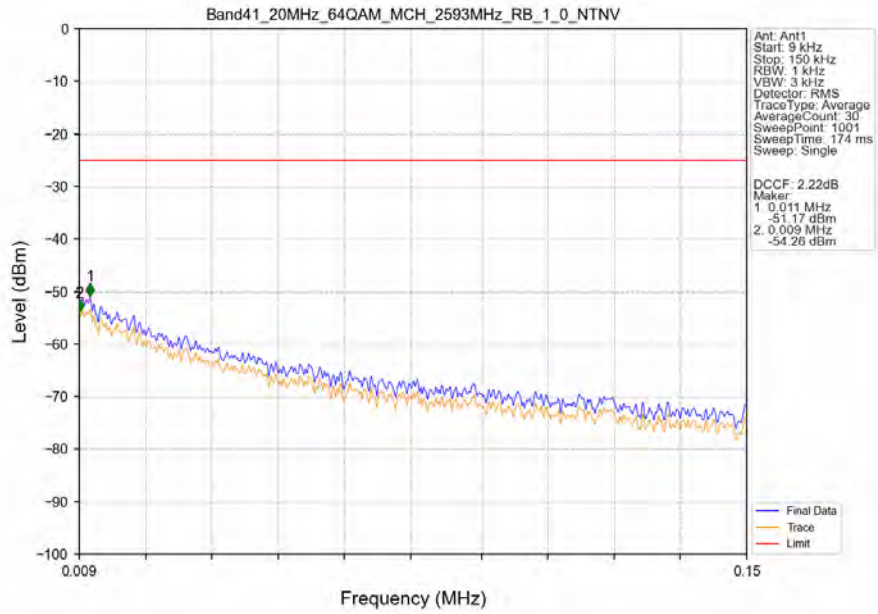


Band41_20MHz_64QAM_LCH_2506MHz_RB_100_0_NTNV

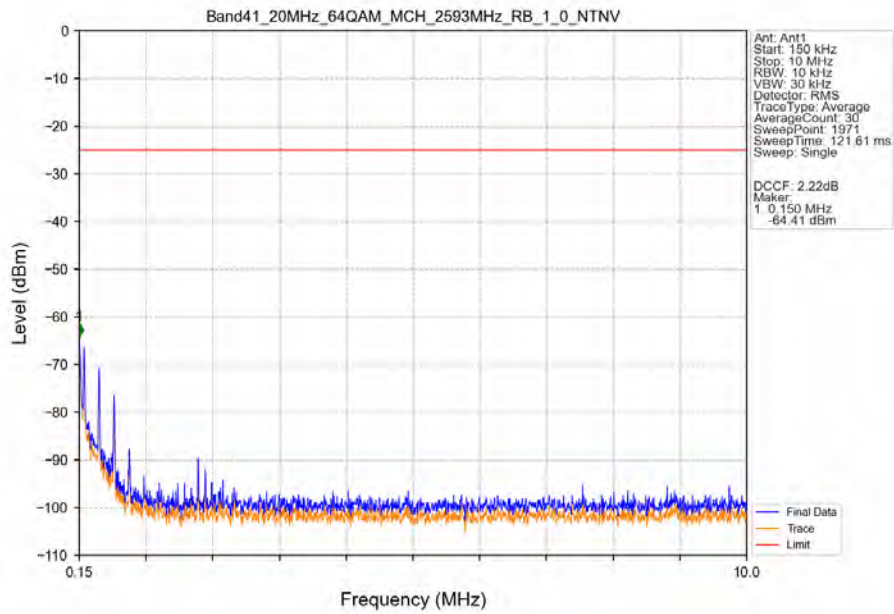


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.453	-33.96	-25	Pass
2490.5	2495	1	CHP	2	2494.430	-32.02	-13	Pass
2495	2496	0.196	CHP	3	2495.988	-37.42	-13	Pass
2496	2526	0.196	CHP	/	/	/	/	/

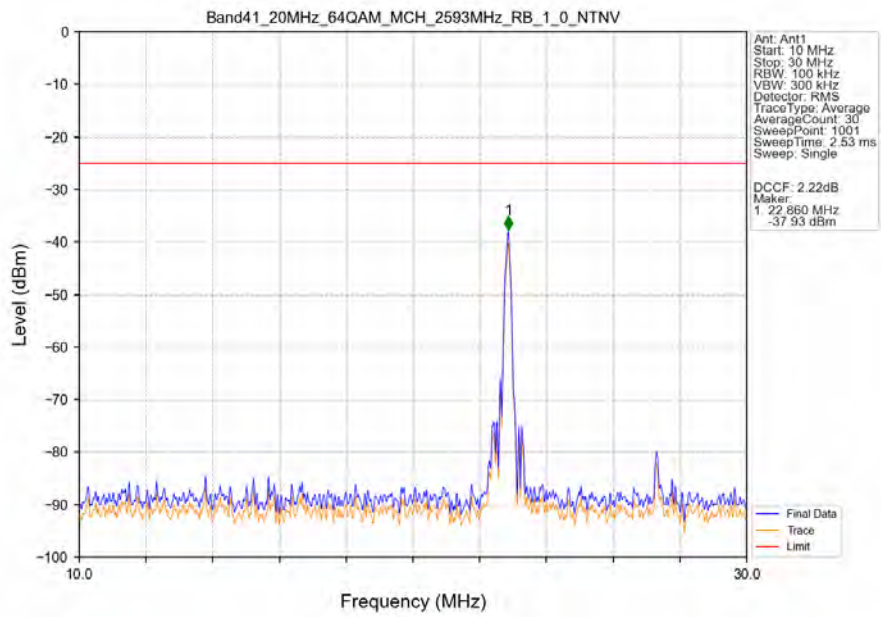
Band41_20MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



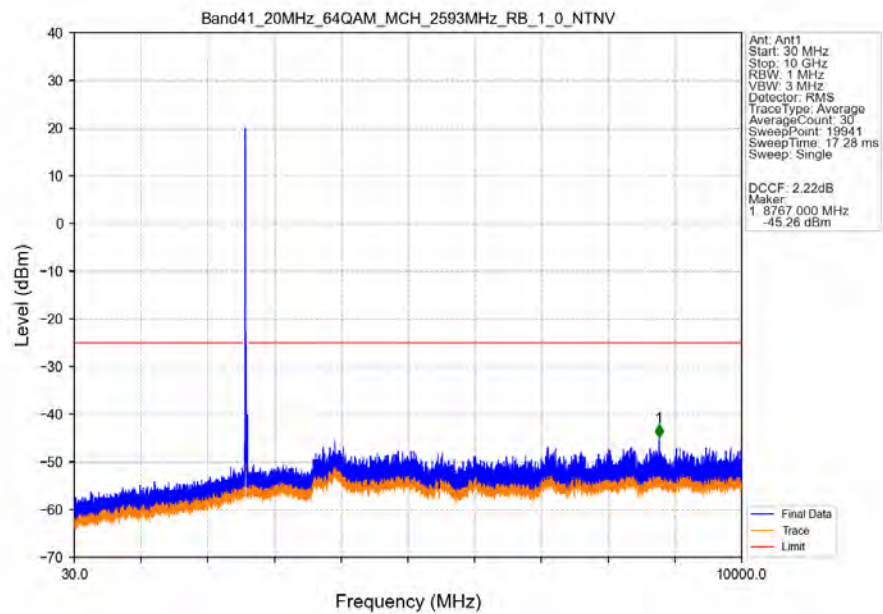
Band41_20MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



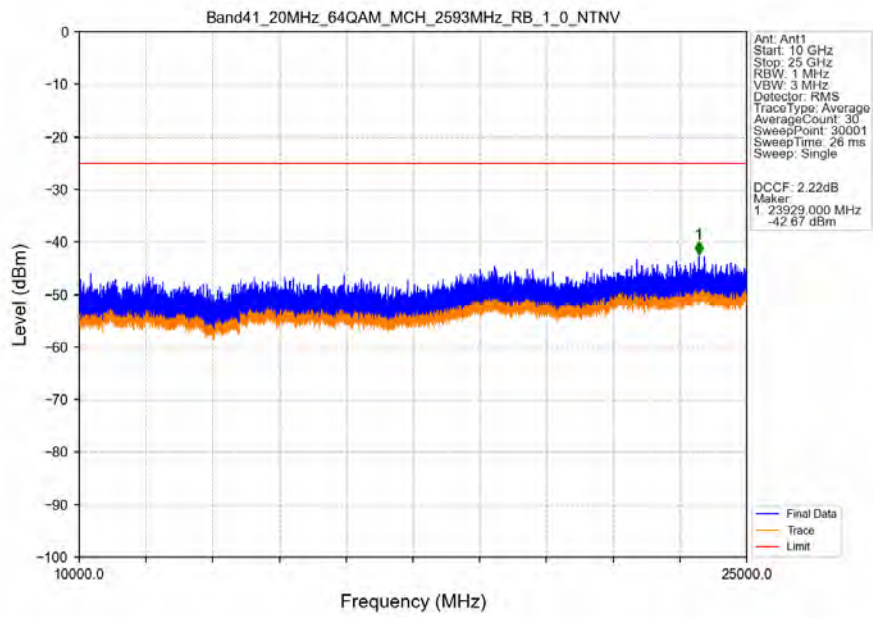
Band41_20MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



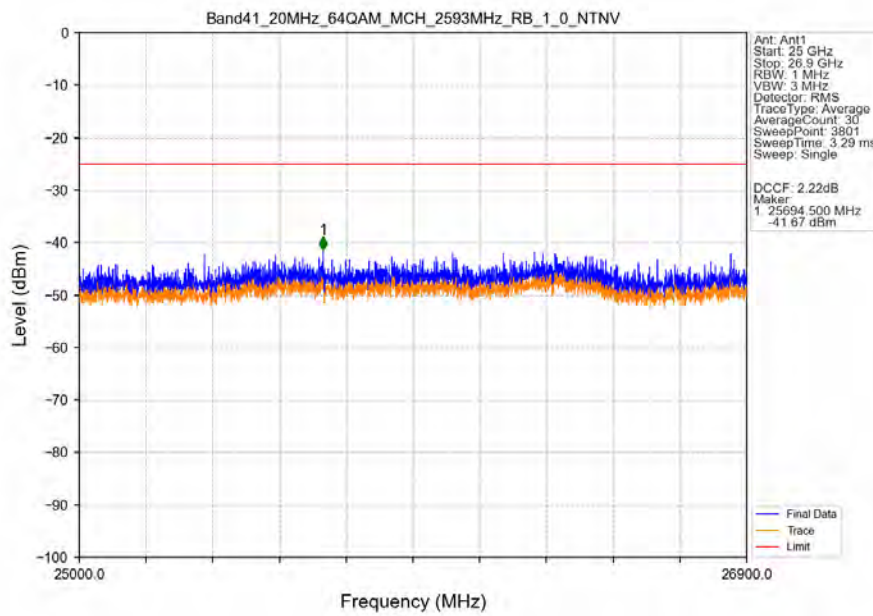
Band41_20MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



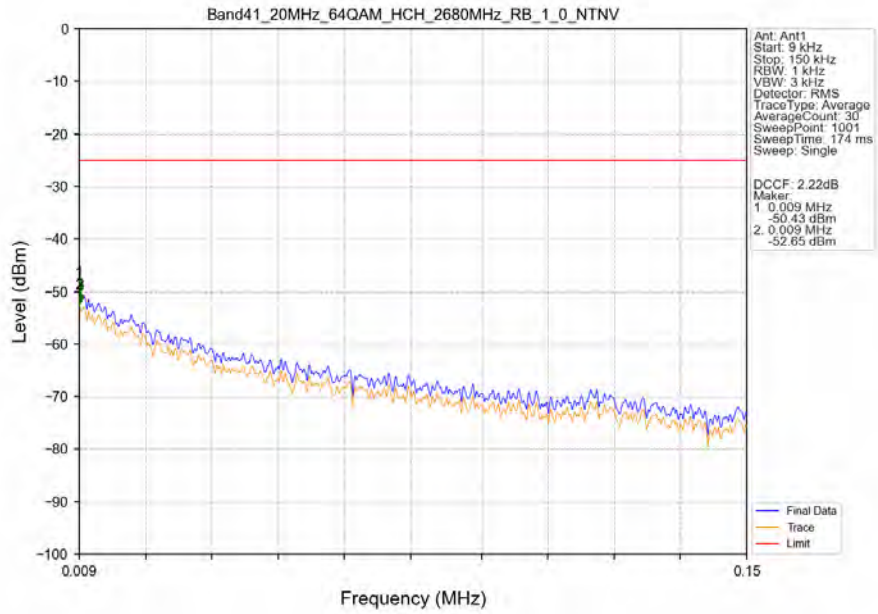
Band41_20MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



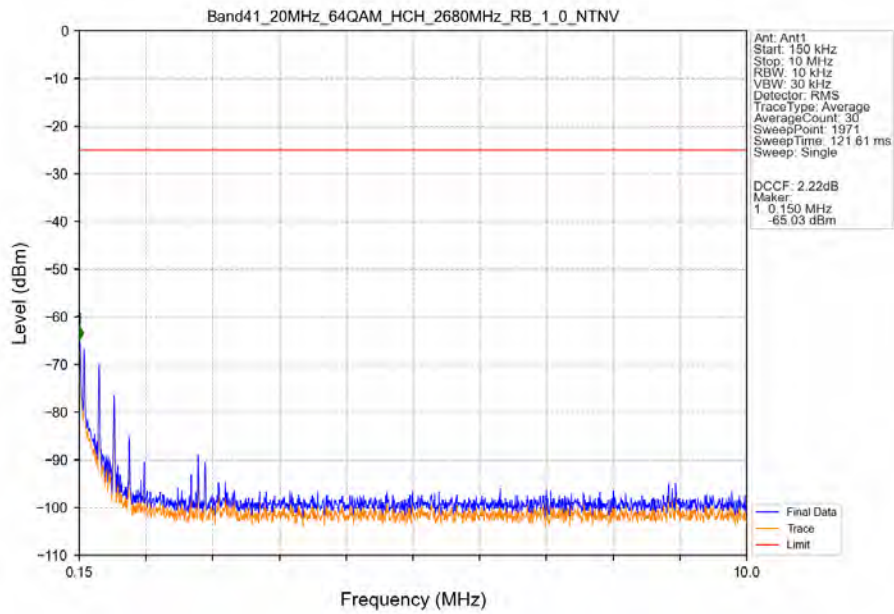
Band41_20MHz_64QAM_MCH_2593MHz_RB_1_0_NTNV



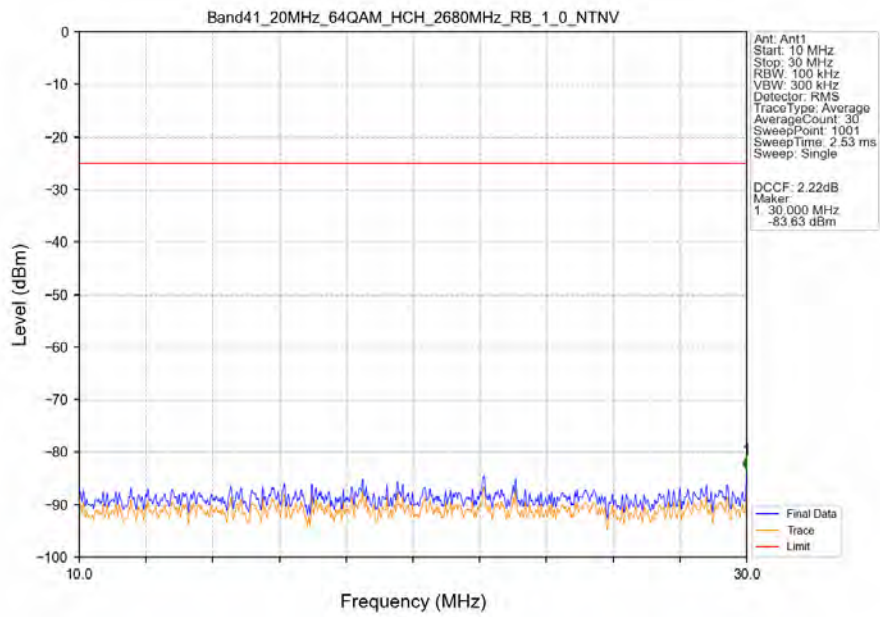
Band41_20MHz_64QAM_HCH_2680MHz_RB_1_0_NTNV



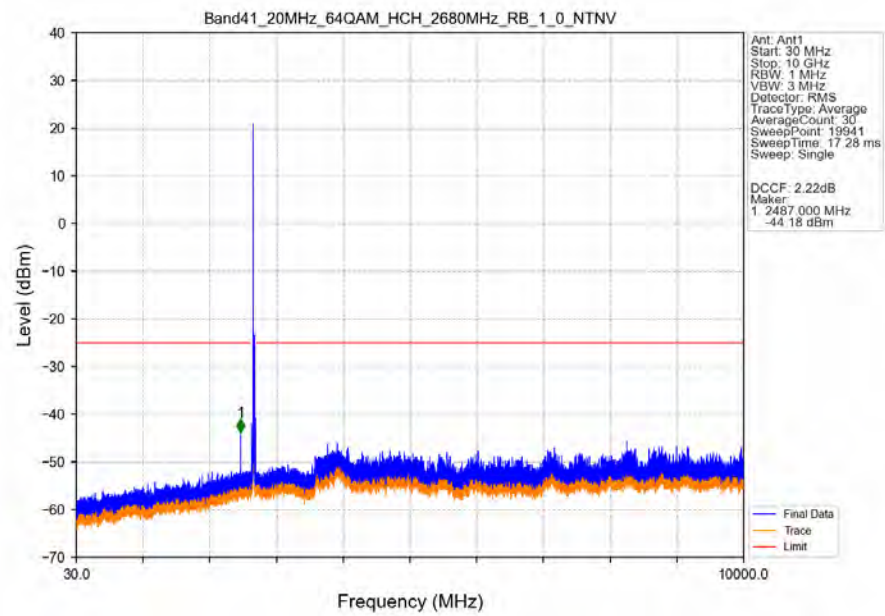
Band41_20MHz_64QAM_HCH_2680MHz_RB_1_0_NTNV



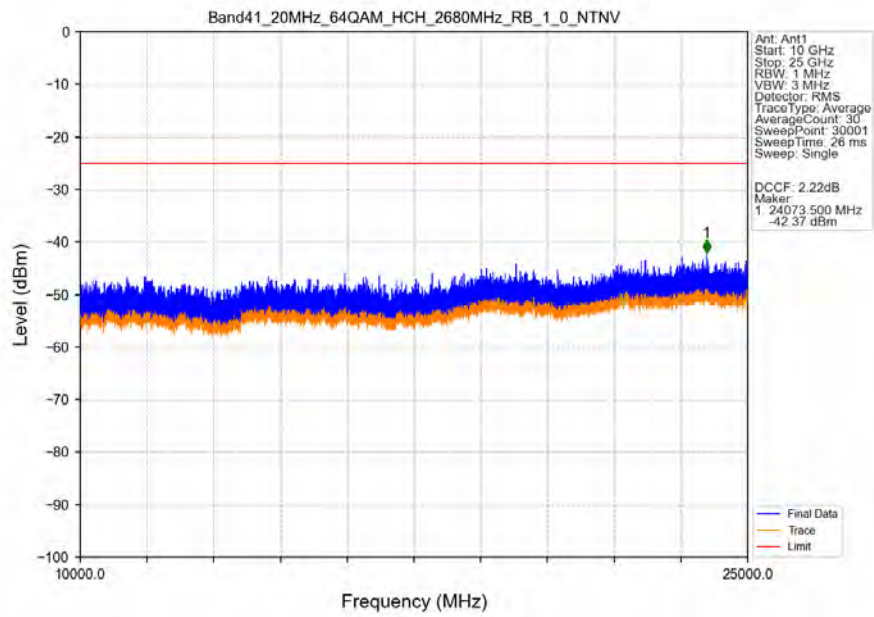
Band41_20MHz_64QAM_HCH_2680MHz_RB_1_0_NTNV



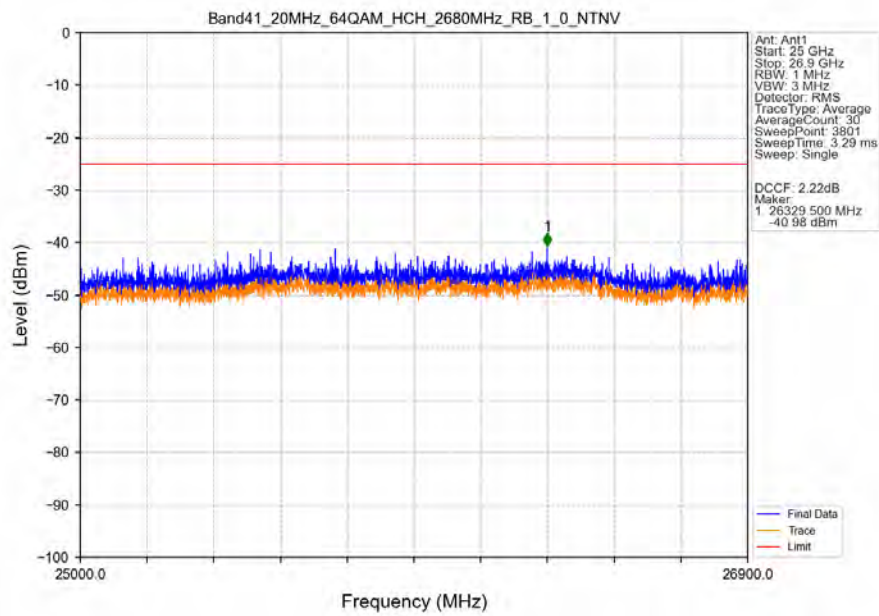
Band41_20MHz_64QAM_HCH_2680MHz_RB_1_0_NTNV



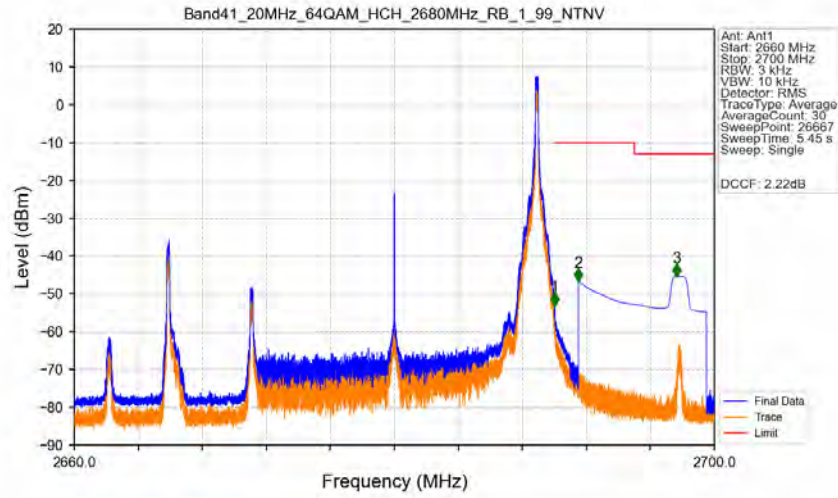
Band41_20MHz_64QAM_HCH_2680MHz_RB_1_0_NTNV



Band41_20MHz_64QAM_HCH_2680MHz_RB_1_0_NTNV

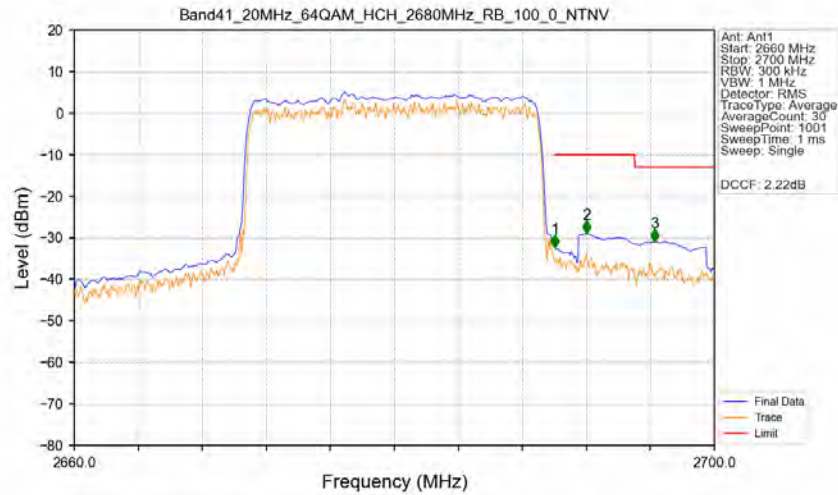


Band41_20MHz_64QAM_HCH_2680MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2660	2690	0.006	CHP	/	/	/	/	/
2690	2691	0.006	CHP	1	2690.005	-53.03	-10	Pass
2691	2695	1	CHP	2	2691.501	-46.60	-10	Pass
2695	2700	1	CHP	3	2697.654	-45.43	-13	Pass

Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2660	2690	0.393	CHP	/	/	/	/	/
2690	2691	0.393	CHP	1	2690.040	-32.36	-10	Pass
2691	2695	1	CHP	2	2692.000	-28.96	-10	Pass
2695	2700	1	CHP	3	2696.280	-30.89	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 41-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
4994.0	-60.34	-25	-35.34	-65.9	4.57	10.13	Horizontal	Pass
7491.0	-61.03	-25	-36.03	-67.82	4.94	11.73	Horizontal	Pass
9988.0	-56.89	-25	-31.89	-64.47	5.46	13.04	Horizontal	Pass
4994.0	-59.51	-25	-34.51	-65.07	4.57	10.13	Vertical	Pass
7491.0	-60.72	-25	-35.72	-67.51	4.94	11.73	Vertical	Pass
9988.0	-57.42	-25	-32.42	-65.0	5.46	13.04	Vertical	Pass

LTE Band 41-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
5168.0	-55.57	-25	-30.57	-61.19	4.62	10.24	Horizontal	Pass
7752.0	-59.48	-25	-34.48	-66.56	4.96	12.04	Horizontal	Pass
10336.0	-56.62	-25	-31.62	-64.2	5.51	13.09	Horizontal	Pass
5168.0	-59.31	-25	-34.31	-64.93	4.62	10.24	Vertical	Pass
7752.0	-54.81	-25	-29.81	-61.89	4.96	12.04	Vertical	Pass
10336.0	-57.05	-25	-32.05	-64.63	5.51	13.09	Vertical	Pass

LTE Band 41-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
5342.0	-61.2	-25	-36.2	-66.87	4.68	10.35	Horizontal	Pass
8013.0	-53.84	-25	-28.84	-61.21	4.98	12.35	Horizontal	Pass
10684.0	-56.81	-25	-31.81	-64.36	5.63	13.18	Horizontal	Pass
5342.0	-56.03	-25	-31.03	-61.7	4.68	10.35	Vertical	Pass
8013.0	-59.29	-25	-34.29	-66.66	4.98	12.35	Vertical	Pass
10684.0	-56.96	-25	-31.96	-64.51	5.63	13.18	Vertical	Pass