



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.9

## LTE Band 7



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## 1. Effective (Isotropic) Radiated Power Output Data

Ant0

### 1.1 B7\_5MHz\_EIRP

#### 1.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2502.5	1	0	24.35	0.10	24.45	<=33.01	Pass		
			13	24.33	0.10	24.43	<=33.01	Pass		
			24	24.28	0.10	24.38	<=33.01	Pass		
		12	0	23.80	0.10	23.90	<=33.01	Pass		
			6	23.81	0.10	23.91	<=33.01	Pass		
			13	23.80	0.10	23.90	<=33.01	Pass		
		25	0	23.87	0.10	23.97	<=33.01	Pass		
		2535	1	0	24.04	0.10	24.14	<=33.01	Pass	
				13	23.93	0.10	24.03	<=33.01	Pass	
	24			23.91	0.10	24.01	<=33.01	Pass		
	12		0	23.49	0.10	23.59	<=33.01	Pass		
			6	23.43	0.10	23.53	<=33.01	Pass		
			13	23.40	0.10	23.50	<=33.01	Pass		
	25		0	23.49	0.10	23.59	<=33.01	Pass		
	2567.5		1	0	24.11	0.10	24.21	<=33.01	Pass	
				13	24.11	0.10	24.21	<=33.01	Pass	
		24		23.67	0.10	23.77	<=33.01	Pass		
		12	0	23.57	0.10	23.67	<=33.01	Pass		
			6	23.58	0.10	23.68	<=33.01	Pass		
			13	23.63	0.10	23.73	<=33.01	Pass		
		25	0	23.65	0.10	23.75	<=33.01	Pass		
		16QAM	2502.5	1	0	23.69	0.10	23.79	<=33.01	Pass
					13	23.64	0.10	23.74	<=33.01	Pass
	24				23.67	0.10	23.77	<=33.01	Pass	
12	0			22.38	0.10	22.48	<=33.01	Pass		
	6			22.34	0.10	22.44	<=33.01	Pass		
	13			22.32	0.10	22.42	<=33.01	Pass		
25	0		22.33	0.10	22.43	<=33.01	Pass			
2535	1		0	23.76	0.10	23.86	<=33.01	Pass		
			13	23.67	0.10	23.77	<=33.01	Pass		
			24	23.62	0.10	23.72	<=33.01	Pass		
	12		0	22.03	0.10	22.13	<=33.01	Pass		
			6	21.98	0.10	22.08	<=33.01	Pass		
			13	21.97	0.10	22.07	<=33.01	Pass		
	25		0	21.98	0.10	22.08	<=33.01	Pass		
	2567.5		1	0	23.48	0.10	23.58	<=33.01	Pass	



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64QAM		13	23.49	0.10	23.59	<=33.01	Pass		
			24	23.51	0.10	23.61	<=33.01	Pass	
		12	0	22.11	0.10	22.21	<=33.01	Pass	
			6	22.07	0.10	22.17	<=33.01	Pass	
			13	22.09	0.10	22.19	<=33.01	Pass	
	25	0	22.11	0.10	22.21	<=33.01	Pass		
	2502.5	1	0	23.37	0.10	23.47	<=33.01	Pass	
			13	23.28	0.10	23.38	<=33.01	Pass	
			24	23.22	0.10	23.32	<=33.01	Pass	
		12	0	22.35	0.10	22.45	<=33.01	Pass	
			6	22.30	0.10	22.40	<=33.01	Pass	
			13	22.25	0.10	22.35	<=33.01	Pass	
		25	0	22.34	0.10	22.44	<=33.01	Pass	
		2535	1	0	23.17	0.10	23.27	<=33.01	Pass
				13	23.07	0.10	23.17	<=33.01	Pass
24				23.05	0.10	23.15	<=33.01	Pass	
12			0	22.01	0.10	22.11	<=33.01	Pass	
			6	21.96	0.10	22.06	<=33.01	Pass	
			13	21.96	0.10	22.06	<=33.01	Pass	
25			0	22.02	0.10	22.12	<=33.01	Pass	
2567.5			1	0	23.26	0.10	23.36	<=33.01	Pass
	13			23.31	0.10	23.41	<=33.01	Pass	
	24			23.21	0.10	23.31	<=33.01	Pass	
	12		0	22.27	0.10	22.37	<=33.01	Pass	
			6	22.24	0.10	22.34	<=33.01	Pass	
			13	22.24	0.10	22.34	<=33.01	Pass	
	25		0	22.10	0.10	22.20	<=33.01	Pass	



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## 1.2 B7\_10MHz\_EIRP

### 1.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2505	1	0	24.44	0.10	24.54	<=33.01	Pass	
			25	24.29	0.10	24.39	<=33.01	Pass	
			49	24.35	0.10	24.45	<=33.01	Pass	
		25	0	23.89	0.10	23.99	<=33.01	Pass	
			13	23.86	0.10	23.96	<=33.01	Pass	
			25	23.86	0.10	23.96	<=33.01	Pass	
		50	0	23.86	0.10	23.96	<=33.01	Pass	
			1	0	24.12	0.10	24.22	<=33.01	Pass
				25	23.89	0.10	23.99	<=33.01	Pass
	49	23.84		0.10	23.94	<=33.01	Pass		
	2535	25	0	23.50	0.10	23.60	<=33.01	Pass	
			13	23.45	0.10	23.55	<=33.01	Pass	
			25	23.40	0.10	23.50	<=33.01	Pass	
		50	0	23.46	0.10	23.56	<=33.01	Pass	
			1	0	23.97	0.10	24.07	<=33.01	Pass
				25	24.01	0.10	24.11	<=33.01	Pass
	49	23.52		0.10	23.62	<=33.01	Pass		
	2565	25	0	23.49	0.10	23.59	<=33.01	Pass	
			13	23.57	0.10	23.67	<=33.01	Pass	
			25	23.62	0.10	23.72	<=33.01	Pass	
		50	0	23.57	0.10	23.67	<=33.01	Pass	
			1	0	24.01	0.10	24.11	<=33.01	Pass
				25	23.84	0.10	23.94	<=33.01	Pass
	49	23.88		0.10	23.98	<=33.01	Pass		
16QAM	2505	25	0	22.42	0.10	22.52	<=33.01	Pass	
			13	22.37	0.10	22.47	<=33.01	Pass	
			25	22.33	0.10	22.43	<=33.01	Pass	
		50	0	22.33	0.10	22.43	<=33.01	Pass	
			1	0	23.81	0.10	23.91	<=33.01	Pass
				25	23.59	0.10	23.69	<=33.01	Pass
		49		23.56	0.10	23.66	<=33.01	Pass	
		2535	25	0	22.04	0.10	22.14	<=33.01	Pass
				13	21.97	0.10	22.07	<=33.01	Pass
	25			21.91	0.10	22.01	<=33.01	Pass	
	50		0	21.98	0.10	22.08	<=33.01	Pass	
			1	0	23.00	0.10	23.10	<=33.01	Pass
				25	23.07	0.10	23.17	<=33.01	Pass
	49	23.15		0.10	23.25	<=33.01	Pass		
	2565	25	0	22.09	0.10	22.19	<=33.01	Pass	
			13	22.13	0.10	22.23	<=33.01	Pass	
			25	22.15	0.10	22.25	<=33.01	Pass	



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64QAM	2505	50	0	22.04	0.10	22.14	<=33.01	Pass	
			1	0	23.48	0.10	23.58	<=33.01	Pass
				25	23.34	0.10	23.44	<=33.01	Pass
		25	49	23.18	0.10	23.28	<=33.01	Pass	
			25	0	22.39	0.10	22.49	<=33.01	Pass
				13	22.35	0.10	22.45	<=33.01	Pass
		50	25	22.31	0.10	22.41	<=33.01	Pass	
			1	0	22.35	0.10	22.45	<=33.01	Pass
				0	23.24	0.10	23.34	<=33.01	Pass
	25	23.04		0.10	23.14	<=33.01	Pass		
	2535	1	49	22.97	0.10	23.07	<=33.01	Pass	
			25	0	22.11	0.10	22.21	<=33.01	Pass
				13	22.06	0.10	22.16	<=33.01	Pass
		25		21.99	0.10	22.09	<=33.01	Pass	
		50	0	21.99	0.10	22.09	<=33.01	Pass	
			1	0	22.70	0.10	22.80	<=33.01	Pass
				25	22.79	0.10	22.89	<=33.01	Pass
		49		22.64	0.10	22.74	<=33.01	Pass	
		2565	25	0	22.09	0.10	22.19	<=33.01	Pass
	13			22.09	0.10	22.19	<=33.01	Pass	
	25			22.13	0.10	22.23	<=33.01	Pass	
	50		25	22.13	0.10	22.23	<=33.01	Pass	
			0	22.04	0.10	22.14	<=33.01	Pass	
			0	22.04	0.10	22.14	<=33.01	Pass	



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## 1.3 B7\_15MHz\_EIRP

### 1.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2507.5	1	0	24.44	0.10	24.54	<=33.01	Pass		
			38	24.38	0.10	24.48	<=33.01	Pass		
			74	24.00	0.10	24.10	<=33.01	Pass		
		36	0	23.91	0.10	24.01	<=33.01	Pass		
			18	23.86	0.10	23.96	<=33.01	Pass		
			39	23.85	0.10	23.95	<=33.01	Pass		
		75	0	23.93	0.10	24.03	<=33.01	Pass		
		2535	1	0	24.13	0.10	24.23	<=33.01	Pass	
				38	23.79	0.10	23.89	<=33.01	Pass	
	74			23.84	0.10	23.94	<=33.01	Pass		
	36		0	23.56	0.10	23.66	<=33.01	Pass		
			18	23.45	0.10	23.55	<=33.01	Pass		
			39	23.41	0.10	23.51	<=33.01	Pass		
	75		0	23.52	0.10	23.62	<=33.01	Pass		
	2562.5		1	0	23.88	0.10	23.98	<=33.01	Pass	
				38	23.98	0.10	24.08	<=33.01	Pass	
		74		23.62	0.10	23.72	<=33.01	Pass		
		36	0	23.46	0.10	23.56	<=33.01	Pass		
			18	23.51	0.10	23.61	<=33.01	Pass		
			39	23.57	0.10	23.67	<=33.01	Pass		
		75	0	23.54	0.10	23.64	<=33.01	Pass		
		16QAM	2507.5	1	0	23.99	0.10	24.09	<=33.01	Pass
					38	23.94	0.10	24.04	<=33.01	Pass
	74				23.89	0.10	23.99	<=33.01	Pass	
36	0			22.44	0.10	22.54	<=33.01	Pass		
	18			22.37	0.10	22.47	<=33.01	Pass		
	39			22.41	0.10	22.51	<=33.01	Pass		
75	0			22.44	0.10	22.54	<=33.01	Pass		
2535	1			0	23.81	0.10	23.91	<=33.01	Pass	
				38	23.50	0.10	23.60	<=33.01	Pass	
			74	23.35	0.10	23.45	<=33.01	Pass		
	36		0	22.08	0.10	22.18	<=33.01	Pass		
			18	21.98	0.10	22.08	<=33.01	Pass		
			39	21.93	0.10	22.03	<=33.01	Pass		
	75		0	22.05	0.10	22.15	<=33.01	Pass		
	2562.5		1	0	23.30	0.10	23.40	<=33.01	Pass	
				38	23.40	0.10	23.50	<=33.01	Pass	
74				23.53	0.10	23.63	<=33.01	Pass		
36			0	21.95	0.10	22.05	<=33.01	Pass		
			18	21.97	0.10	22.07	<=33.01	Pass		
			39	22.06	0.10	22.16	<=33.01	Pass		



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64QAM	2507.5	75	0	22.03	0.10	22.13	<=33.01	Pass	
			1	0	23.34	0.10	23.44	<=33.01	Pass
				38	23.38	0.10	23.48	<=33.01	Pass
		36	74	23.09	0.10	23.19	<=33.01	Pass	
			0	22.45	0.10	22.55	<=33.01	Pass	
			18	22.35	0.10	22.45	<=33.01	Pass	
		75	39	22.37	0.10	22.47	<=33.01	Pass	
			0	22.40	0.10	22.50	<=33.01	Pass	
			1	0	23.23	0.10	23.33	<=33.01	Pass
	38	23.09		0.10	23.19	<=33.01	Pass		
	74	22.96		0.10	23.06	<=33.01	Pass		
	2535	36	0	22.12	0.10	22.22	<=33.01	Pass	
			18	22.01	0.10	22.11	<=33.01	Pass	
			39	21.97	0.10	22.07	<=33.01	Pass	
	75	0	22.04	0.10	22.14	<=33.01	Pass		
		1	0	22.74	0.10	22.84	<=33.01	Pass	
			38	22.86	0.10	22.96	<=33.01	Pass	
	74		23.00	0.10	23.10	<=33.01	Pass		
	2562.5	36	0	21.94	0.10	22.04	<=33.01	Pass	
			18	21.95	0.10	22.05	<=33.01	Pass	
			39	22.00	0.10	22.10	<=33.01	Pass	
	75	0	22.02	0.10	22.12	<=33.01	Pass		



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## 1.4 B7\_20MHz\_EIRP

### 1.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2510	1	0	24.45	0.10	24.55	<=33.01	Pass	
			50	24.03	0.10	24.13	<=33.01	Pass	
			99	23.75	0.10	23.85	<=33.01	Pass	
		50	0	23.96	0.10	24.06	<=33.01	Pass	
			25	23.93	0.10	24.03	<=33.01	Pass	
			50	23.86	0.10	23.96	<=33.01	Pass	
		100	0	23.92	0.10	24.02	<=33.01	Pass	
		2535	1	0	23.90	0.10	24.00	<=33.01	Pass
				50	23.84	0.10	23.94	<=33.01	Pass
	99			23.56	0.10	23.66	<=33.01	Pass	
	50		0	23.68	0.10	23.78	<=33.01	Pass	
			25	23.56	0.10	23.66	<=33.01	Pass	
			50	23.42	0.10	23.52	<=33.01	Pass	
	100		0	23.55	0.10	23.65	<=33.01	Pass	
	2560		1	0	23.91	0.10	24.01	<=33.01	Pass
				50	23.94	0.10	24.04	<=33.01	Pass
		99		23.55	0.10	23.65	<=33.01	Pass	
		50	0	23.47	0.10	23.57	<=33.01	Pass	
			25	23.52	0.10	23.62	<=33.01	Pass	
			50	23.57	0.10	23.67	<=33.01	Pass	
	100	0	23.54	0.10	23.64	<=33.01	Pass		
	16QAM	2510	1	0	23.75	0.10	23.85	<=33.01	Pass
				50	23.70	0.10	23.80	<=33.01	Pass
				99	23.51	0.10	23.61	<=33.01	Pass
50			0	22.46	0.10	22.56	<=33.01	Pass	
			25	22.39	0.10	22.49	<=33.01	Pass	
			50	22.34	0.10	22.44	<=33.01	Pass	
100			0	22.39	0.10	22.49	<=33.01	Pass	
2535			1	0	23.45	0.10	23.55	<=33.01	Pass
				50	23.29	0.10	23.39	<=33.01	Pass
		99		23.50	0.10	23.60	<=33.01	Pass	
		50	0	22.14	0.10	22.24	<=33.01	Pass	
			25	22.04	0.10	22.14	<=33.01	Pass	
			50	21.90	0.10	22.00	<=33.01	Pass	
		100	0	22.01	0.10	22.11	<=33.01	Pass	
		2560	1	0	23.53	0.10	23.63	<=33.01	Pass
				50	23.58	0.10	23.68	<=33.01	Pass
99				23.70	0.10	23.80	<=33.01	Pass	
50			0	21.96	0.10	22.06	<=33.01	Pass	
			25	22.00	0.10	22.10	<=33.01	Pass	
			50	22.06	0.10	22.16	<=33.01	Pass	



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64QAM	2510	100	0	22.04	0.10	22.14	<=33.01	Pass		
			0	23.15	0.10	23.25	<=33.01	Pass		
			50	23.12	0.10	23.22	<=33.01	Pass		
		50	1	99	22.91	0.10	23.01	<=33.01	Pass	
				0	22.50	0.10	22.60	<=33.01	Pass	
				25	22.42	0.10	22.52	<=33.01	Pass	
			100	50	50	22.38	0.10	22.48	<=33.01	Pass
					0	22.34	0.10	22.44	<=33.01	Pass
					0	23.27	0.10	23.37	<=33.01	Pass
	2535	1	50	50	23.15	0.10	23.25	<=33.01	Pass	
				99	23.12	0.10	23.22	<=33.01	Pass	
				0	22.18	0.10	22.28	<=33.01	Pass	
			50	25	22.06	0.10	22.16	<=33.01	Pass	
				50	21.93	0.10	22.03	<=33.01	Pass	
				100	0	22.01	0.10	22.11	<=33.01	Pass
		2560	1	50	0	22.30	0.10	22.40	<=33.01	Pass
					50	22.34	0.10	22.44	<=33.01	Pass
					99	22.55	0.10	22.65	<=33.01	Pass
	50			0	21.98	0.10	22.08	<=33.01	Pass	
				25	22.02	0.10	22.12	<=33.01	Pass	
				50	22.06	0.10	22.16	<=33.01	Pass	
	100		0	22.03	0.10	22.13	<=33.01	Pass		



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## 2. Frequency Stability

### 2.1 B7\_5MHz

#### 2.1.1 Test Result

Band: 7 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2502.5	25	0	20	3.91	-4.306	-0.0017	/	Pass	
					3.5	1.650	0.0007	/	Pass	
					4.5	2.170	0.0009	/	Pass	
				-30	3.91	2.787	0.0011	/	Pass	
					-20	3.91	-2.444	-0.0010	/	Pass
					-10	3.91	-3.253	-0.0013	/	Pass
				0	3.91	-3.644	-0.0015	/	Pass	
					10	3.91	0.818	0.0003	/	Pass
					30	3.91	-4.654	-0.0019	/	Pass
	2535	25	0	20	3.91	-6.509	-0.0026	/	Pass	
					3.5	-0.419	-0.0002	/	Pass	
					4.5	-2.620	-0.0010	/	Pass	
				-30	3.91	-3.935	-0.0016	/	Pass	
					-20	3.91	-5.320	-0.0021	/	Pass
					-10	3.91	-3.562	-0.0014	/	Pass
				0	3.91	-6.862	-0.0027	/	Pass	
					10	3.91	-3.157	-0.0012	/	Pass
					30	3.91	-7.163	-0.0028	/	Pass
	2567.5	25	0	20	3.91	-4.881	-0.0019	/	Pass	
					3.5	-9.032	-0.0035	/	Pass	
					4.5	-9.629	-0.0038	/	Pass	
				-30	3.91	-11.121	-0.0043	/	Pass	
					-20	3.91	-6.092	-0.0024	/	Pass
					-10	3.91	-4.559	-0.0018	/	Pass
				0	3.91	-7.172	-0.0028	/	Pass	
					10	3.91	-7.940	-0.0031	/	Pass
					30	3.91	-8.617	-0.0034	/	Pass
40	3.91	-4.939	-0.0019	/	Pass					
	50	3.91	-4.255	-0.0017	/	Pass				
	16QAM	2502.5	25	0	20	3.91	-6.488	-0.0026	/	Pass
3.5						-7.401	-0.0030	/	Pass	
4.5						-7.229	-0.0029	/	Pass	
-30					3.91	3.843	0.0015	/	Pass	
-20					3.91	-8.987	-0.0036	/	Pass	
-10	3.91	-9.939	-0.0040	/	Pass					



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64QAM				0	3.91	-4.723	-0.0019	/	Pass
				10	3.91	-9.848	-0.0039	/	Pass
				30	3.91	-4.496	-0.0018	/	Pass
				40	3.91	-2.933	-0.0012	/	Pass
				50	3.91	-3.504	-0.0014	/	Pass
	2535	25	0	20	3.91	-5.977	-0.0024	/	Pass
					3.5	1.583	0.0006	/	Pass
					4.5	-3.197	-0.0013	/	Pass
				-30	3.91	-0.276	-0.0001	/	Pass
				-20	3.91	-0.010	0.0000	/	Pass
				-10	3.91	3.475	0.0014	/	Pass
				0	3.91	-3.011	-0.0012	/	Pass
				10	3.91	0.421	0.0002	/	Pass
				30	3.91	0.764	0.0003	/	Pass
				40	3.91	-3.176	-0.0013	/	Pass
	50	3.91	-3.418	-0.0013	/	Pass			
	2567.5	25	0	20	3.91	-6.298	-0.0025	/	Pass
					3.5	1.338	0.0005	/	Pass
					4.5	-1.650	-0.0006	/	Pass
				-30	3.91	-3.955	-0.0015	/	Pass
				-20	3.91	-8.023	-0.0031	/	Pass
				-10	3.91	-4.729	-0.0018	/	Pass
				0	3.91	0.526	0.0002	/	Pass
				10	3.91	-4.531	-0.0018	/	Pass
				30	3.91	-8.050	-0.0031	/	Pass
				40	3.91	-9.940	-0.0039	/	Pass
	50	3.91	-5.623	-0.0022	/	Pass			
	2502.5	25	0	20	3.91	-6.159	-0.0025	/	Pass
					3.5	-2.359	-0.0009	/	Pass
					4.5	-5.845	-0.0023	/	Pass
				-30	3.91	-5.585	-0.0022	/	Pass
				-20	3.91	-5.509	-0.0022	/	Pass
				-10	3.91	1.983	0.0008	/	Pass
				0	3.91	-2.081	-0.0008	/	Pass
				10	3.91	-7.178	-0.0029	/	Pass
				30	3.91	-4.429	-0.0018	/	Pass
40				3.91	-5.527	-0.0022	/	Pass	
50	3.91	-10.207	-0.0041	/	Pass				
2535	25	0	20	3.91	3.687	0.0015	/	Pass	
				3.5	0.620	0.0002	/	Pass	
				4.5	4.277	0.0017	/	Pass	
			-30	3.91	1.697	0.0007	/	Pass	
			-20	3.91	-5.419	-0.0021	/	Pass	
			-10	3.91	1.983	0.0008	/	Pass	
			0	3.91	1.112	0.0004	/	Pass	
			10	3.91	1.436	0.0006	/	Pass	
			30	3.91	5.073	0.0020	/	Pass	
			40	3.91	-2.612	-0.0010	/	Pass	
50	3.91	-3.560	-0.0014	/	Pass				



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2567.5	25	0	20	3.91	-3.822	-0.0015	/	Pass
				3.5	-2.018	-0.0008	/	Pass
				4.5	-3.250	-0.0013	/	Pass
			-30	3.91	-4.210	-0.0016	/	Pass
			-20	3.91	-1.898	-0.0007	/	Pass
			-10	3.91	-3.769	-0.0015	/	Pass
			0	3.91	-6.618	-0.0026	/	Pass
			10	3.91	-10.668	-0.0042	/	Pass
			30	3.91	2.522	0.0010	/	Pass
			40	3.91	-2.013	-0.0008	/	Pass
50	3.91	-2.678	-0.0010	/	Pass			



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## 2.2 B7\_10MHz

### 2.2.1 Test Result

Band: 7 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2505	50	0	20	3.91	-5.216	-0.0021	/	Pass	
					3.5	-1.151	-0.0005	/	Pass	
					4.5	-0.828	-0.0003	/	Pass	
				-30	3.91	0.226	0.0001	/	Pass	
					-20	3.91	0.300	0.0001	/	Pass
					-10	3.91	-3.677	-0.0015	/	Pass
				0	3.91	-3.150	-0.0013	/	Pass	
					10	3.91	-6.075	-0.0024	/	Pass
					30	3.91	-4.874	-0.0019	/	Pass
				50	3.91	0.152	0.0001	/	Pass	
	3.91	-11.161	-0.0045		/	Pass				
	2535	50	0	20	3.91	-4.331	-0.0017	/	Pass	
					3.5	-11.592	-0.0046	/	Pass	
					4.5	-3.341	-0.0013	/	Pass	
				-30	3.91	-7.123	-0.0028	/	Pass	
					-20	3.91	-7.343	-0.0029	/	Pass
					-10	3.91	-4.604	-0.0018	/	Pass
				0	3.91	-4.469	-0.0018	/	Pass	
					10	3.91	-2.985	-0.0012	/	Pass
					30	3.91	-8.690	-0.0034	/	Pass
				50	3.91	-6.805	-0.0027	/	Pass	
	3.91	-8.054	-0.0032		/	Pass				
	2565	50	0	20	3.91	0.613	0.0002	/	Pass	
					3.5	-2.965	-0.0012	/	Pass	
					4.5	-5.161	-0.0020	/	Pass	
				-30	3.91	-0.623	-0.0002	/	Pass	
					-20	3.91	-3.612	-0.0014	/	Pass
					-10	3.91	2.321	0.0009	/	Pass
				0	3.91	-4.824	-0.0019	/	Pass	
					10	3.91	-1.626	-0.0006	/	Pass
30					3.91	-8.717	-0.0034	/	Pass	
50				3.91	-10.540	-0.0041	/	Pass		
	3.91	-7.815	-0.0030	/	Pass					
16QAM	2505	50	0	20	3.91	-5.159	-0.0021	/	Pass	
					3.5	-11.506	-0.0046	/	Pass	
					4.5	-11.552	-0.0046	/	Pass	
				-30	3.91	-5.178	-0.0021	/	Pass	
					-20	3.91	2.429	0.0010	/	Pass
					-10	3.91	-0.686	-0.0003	/	Pass
				0	3.91	-4.053	-0.0016	/	Pass	
					10	3.91	-5.044	-0.0020	/	Pass



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64QAM	2535	50	0	30	3.91	-1.315	-0.0005	/	Pass		
				40	3.91	-3.234	-0.0013	/	Pass		
				50	3.91	0.895	0.0004	/	Pass		
				20	3.91	-10.015	-0.0040	/	Pass		
					3.5	-8.536	-0.0034	/	Pass		
					4.5	-7.791	-0.0031	/	Pass		
				-30	3.91	-9.881	-0.0039	/	Pass		
				-20	3.91	-6.379	-0.0025	/	Pass		
				-10	3.91	-5.813	-0.0023	/	Pass		
				0	3.91	1.637	0.0006	/	Pass		
	10	3.91	-1.634	-0.0006	/	Pass					
	30	3.91	0.211	0.0001	/	Pass					
	40	3.91	-10.664	-0.0042	/	Pass					
	50	3.91	-5.748	-0.0023	/	Pass					
	2565	50	0	20	3.91	-8.689	-0.0034	/	Pass		
					3.5	-0.054	0.0000	/	Pass		
					4.5	-10.137	-0.0040	/	Pass		
				-30	3.91	3.907	0.0015	/	Pass		
				-20	3.91	-1.869	-0.0007	/	Pass		
				-10	3.91	-6.279	-0.0024	/	Pass		
0				3.91	-0.743	-0.0003	/	Pass			
10				3.91	-3.093	-0.0012	/	Pass			
30				3.91	1.608	0.0006	/	Pass			
40				3.91	0.305	0.0001	/	Pass			
50	3.91	2.115	0.0008	/	Pass						
2505	50	0	20	3.91	-3.521	-0.0014	/	Pass			
				3.5	0.728	0.0003	/	Pass			
				4.5	-1.054	-0.0004	/	Pass			
			-30	3.91	0.965	0.0004	/	Pass			
			-20	3.91	1.782	0.0007	/	Pass			
			-10	3.91	-3.974	-0.0016	/	Pass			
			0	3.91	-1.960	-0.0008	/	Pass			
			10	3.91	-2.321	-0.0009	/	Pass			
			30	3.91	0.556	0.0002	/	Pass			
			40	3.91	2.391	0.0010	/	Pass			
			50	3.91	3.519	0.0014	/	Pass			
			2535	50	0	20	3.91	-4.857	-0.0019	/	Pass
							3.5	-7.073	-0.0028	/	Pass
							4.5	-4.004	-0.0016	/	Pass
						-30	3.91	-4.773	-0.0019	/	Pass
						-20	3.91	-9.931	-0.0039	/	Pass
						-10	3.91	-7.761	-0.0031	/	Pass
						0	3.91	-7.549	-0.0030	/	Pass
10	3.91	-6.335				-0.0025	/	Pass			
30	3.91	-3.716				-0.0015	/	Pass			
40	3.91	-0.822				-0.0003	/	Pass			
50	3.91	-5.341	-0.0021	/	Pass						
2565	50	0	20	3.91	-2.300	-0.0009	/	Pass			
				3.5	-2.093	-0.0008	/	Pass			



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				4.5	-0.176	-0.0001	/	Pass
				-30	3.91	0.761	0.0003	Pass
				-20	3.91	-0.627	-0.0002	Pass
				-10	3.91	0.278	0.0001	Pass
				0	3.91	0.079	0.0000	Pass
				10	3.91	4.692	0.0018	Pass
				30	3.91	0.862	0.0003	Pass
				40	3.91	-4.534	-0.0018	Pass
				50	3.91	-0.896	-0.0003	Pass



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## 2.3 B7\_15MHz

### 2.3.1 Test Result

Band: 7 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2507.5	75	0	20	3.91	-0.610	-0.0002	/	Pass	
					3.5	1.059	0.0004	/	Pass	
					4.5	2.054	0.0008	/	Pass	
				-30	3.91	3.729	0.0015	/	Pass	
					-20	3.91	5.895	0.0024	/	Pass
					-10	3.91	-2.744	-0.0011	/	Pass
				0	3.91	1.311	0.0005	/	Pass	
					10	3.91	-1.817	-0.0007	/	Pass
					30	3.91	3.885	0.0015	/	Pass
					40	3.91	1.379	0.0005	/	Pass
					50	3.91	5.690	0.0023	/	Pass
				2535	75	0	20	3.91	-1.769	-0.0007
	3.5	-5.996	-0.0024					/	Pass	
	4.5	-5.109	-0.0020					/	Pass	
	-30	3.91	-7.485				-0.0030	/	Pass	
		-20	3.91				-2.610	-0.0010	/	Pass
		-10	3.91				-1.196	-0.0005	/	Pass
	0	3.91	-6.880				-0.0027	/	Pass	
		10	3.91				-8.389	-0.0033	/	Pass
		30	3.91				-4.928	-0.0019	/	Pass
		40	3.91				-2.237	-0.0009	/	Pass
		50	3.91				-6.134	-0.0024	/	Pass
	2562.5	75	0				20	3.91	-2.364	-0.0009
				3.5	3.235	0.0013		/	Pass	
				4.5	-1.780	-0.0007		/	Pass	
				-30	3.91	-2.985	-0.0012	/	Pass	
					-20	3.91	-3.292	-0.0013	/	Pass
					-10	3.91	-3.487	-0.0014	/	Pass
				0	3.91	3.713	0.0014	/	Pass	
					10	3.91	-2.018	-0.0008	/	Pass
30					3.91	1.431	0.0006	/	Pass	
40					3.91	-4.009	-0.0016	/	Pass	
50					3.91	-4.880	-0.0019	/	Pass	
16QAM				2507.5	75	0	20	3.91	2.334	0.0009
	3.5	0.155	0.0001					/	Pass	
	4.5	10.183	0.0041					/	Pass	
	-30	3.91	-1.133				-0.0005	/	Pass	
		-20	3.91				-3.111	-0.0012	/	Pass
		-10	3.91				3.020	0.0012	/	Pass
	0	3.91	5.051				0.0020	/	Pass	
		10	3.91				3.949	0.0016	/	Pass



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64QAM	2535	75	0	30	3.91	0.830	0.0003	/	Pass
				40	3.91	5.231	0.0021	/	Pass
				50	3.91	2.298	0.0009	/	Pass
				20	3.91	-9.229	-0.0036	/	Pass
					3.5	-4.647	-0.0018	/	Pass
					4.5	-4.005	-0.0016	/	Pass
				-30	3.91	-5.276	-0.0021	/	Pass
				-20	3.91	-6.422	-0.0025	/	Pass
				-10	3.91	-4.966	-0.0020	/	Pass
				0	3.91	-6.711	-0.0026	/	Pass
	10	3.91	-6.164	-0.0024	/	Pass			
	30	3.91	-12.523	-0.0049	/	Pass			
	40	3.91	2.469	0.0010	/	Pass			
	50	3.91	-5.520	-0.0022	/	Pass			
	2562.5	75	0	20	3.91	-5.684	-0.0022	/	Pass
					3.5	-4.439	-0.0017	/	Pass
					4.5	-3.000	-0.0012	/	Pass
				-30	3.91	-2.139	-0.0008	/	Pass
				-20	3.91	-0.281	-0.0001	/	Pass
				-10	3.91	0.917	0.0004	/	Pass
0				3.91	-4.898	-0.0019	/	Pass	
10				3.91	0.121	0.0000	/	Pass	
30				3.91	-0.752	-0.0003	/	Pass	
40				3.91	-1.944	-0.0008	/	Pass	
50	3.91	0.916	0.0004	/	Pass				
2507.5	75	0	20	3.91	0.176	0.0001	/	Pass	
				3.5	-1.704	-0.0007	/	Pass	
				4.5	2.049	0.0008	/	Pass	
			-30	3.91	2.620	0.0010	/	Pass	
			-20	3.91	-0.938	-0.0004	/	Pass	
			-10	3.91	8.831	0.0035	/	Pass	
			0	3.91	6.042	0.0024	/	Pass	
			10	3.91	-3.911	-0.0016	/	Pass	
			30	3.91	-1.501	-0.0006	/	Pass	
			40	3.91	-1.994	-0.0008	/	Pass	
50	3.91	-0.011	0.0000	/	Pass				
2535	75	0	20	3.91	-2.354	-0.0009	/	Pass	
				3.5	-1.463	-0.0006	/	Pass	
				4.5	-4.554	-0.0018	/	Pass	
			-30	3.91	-7.446	-0.0029	/	Pass	
			-20	3.91	-9.902	-0.0039	/	Pass	
			-10	3.91	-8.464	-0.0033	/	Pass	
			0	3.91	-7.052	-0.0028	/	Pass	
			10	3.91	-6.258	-0.0025	/	Pass	
			30	3.91	-5.455	-0.0022	/	Pass	
			40	3.91	1.790	0.0007	/	Pass	
50	3.91	-3.825	-0.0015	/	Pass				
2562.5	75	0	20	3.91	-1.332	-0.0005	/	Pass	
				3.5	-1.350	-0.0005	/	Pass	



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				4.5	0.705	0.0003	/	Pass
				-30	3.91	0.039	0.0000	Pass
				-20	3.91	-2.941	-0.0011	Pass
				-10	3.91	-2.861	-0.0011	Pass
				0	3.91	0.786	0.0003	Pass
				10	3.91	-8.306	-0.0032	Pass
				30	3.91	3.082	0.0012	Pass
				40	3.91	3.183	0.0012	Pass
				50	3.91	0.481	0.0002	Pass



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## 2.4 B7\_20MHz

### 2.4.1 Test Result

Band: 7 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2510	100	0	20	3.91	-7.205	-0.0029	/	Pass	
					3.5	-0.820	-0.0003	/	Pass	
					4.5	0.445	0.0002	/	Pass	
				-30	3.91	-7.239	-0.0029	/	Pass	
					-20	3.91	1.184	0.0005	/	Pass
					-10	3.91	-0.812	-0.0003	/	Pass
				0	3.91	-7.859	-0.0031	/	Pass	
					10	3.91	2.206	0.0009	/	Pass
					30	3.91	-2.137	-0.0009	/	Pass
					40	3.91	-2.079	-0.0008	/	Pass
	50	3.91	-4.293		-0.0017	/	Pass			
	2535	100	0		20	3.91	-5.408	-0.0021	/	Pass
						3.5	-3.904	-0.0015	/	Pass
				4.5		0.044	0.0000	/	Pass	
				-30	3.91	-8.937	-0.0035	/	Pass	
					-20	3.91	-5.108	-0.0020	/	Pass
					-10	3.91	-8.934	-0.0035	/	Pass
				0	3.91	-6.709	-0.0026	/	Pass	
					10	3.91	-5.316	-0.0021	/	Pass
					30	3.91	-2.757	-0.0011	/	Pass
					40	3.91	0.228	0.0001	/	Pass
	50	3.91	-8.653		-0.0034	/	Pass			
	2560	100	0		20	3.91	3.096	0.0012	/	Pass
						3.5	-0.966	-0.0004	/	Pass
				4.5		-6.428	-0.0025	/	Pass	
				-30	3.91	-1.235	-0.0005	/	Pass	
					-20	3.91	-7.738	-0.0030	/	Pass
					-10	3.91	-3.691	-0.0014	/	Pass
				0	3.91	2.837	0.0011	/	Pass	
					10	3.91	2.582	0.0010	/	Pass
30					3.91	-4.089	-0.0016	/	Pass	
40					3.91	-4.254	-0.0017	/	Pass	
50	3.91	-2.866	-0.0011		/	Pass				
16QAM	2510	100	0		20	3.91	2.243	0.0009	/	Pass
						3.5	-1.892	-0.0008	/	Pass
				4.5		5.740	0.0023	/	Pass	
				-30	3.91	-1.967	-0.0008	/	Pass	
					-20	3.91	-5.891	-0.0023	/	Pass
					-10	3.91	0.160	0.0001	/	Pass
				0	3.91	1.286	0.0005	/	Pass	
					10	3.91	0.777	0.0003	/	Pass



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64QAM	2535	100	0	30	3.91	-0.750	-0.0003	/	Pass		
				40	3.91	3.346	0.0013	/	Pass		
				50	3.91	-2.380	-0.0009	/	Pass		
				20	3.91	-5.399	-0.0021	/	Pass		
					3.5	-6.822	-0.0027	/	Pass		
					4.5	-1.722	-0.0007	/	Pass		
				-30	3.91	-10.052	-0.0040	/	Pass		
				-20	3.91	-5.887	-0.0023	/	Pass		
				-10	3.91	-1.720	-0.0007	/	Pass		
				0	3.91	-0.900	-0.0004	/	Pass		
	10	3.91	-8.841	-0.0035	/	Pass					
	30	3.91	-2.292	-0.0009	/	Pass					
	40	3.91	-4.908	-0.0019	/	Pass					
	50	3.91	-4.526	-0.0018	/	Pass					
	2560	100	0	20	3.91	1.365	0.0005	/	Pass		
					3.5	-1.982	-0.0008	/	Pass		
					4.5	-0.554	-0.0002	/	Pass		
				-30	3.91	0.593	0.0002	/	Pass		
				-20	3.91	-5.301	-0.0021	/	Pass		
				-10	3.91	-2.978	-0.0012	/	Pass		
0				3.91	1.405	0.0005	/	Pass			
10				3.91	-0.074	0.0000	/	Pass			
30				3.91	0.603	0.0002	/	Pass			
40				3.91	-5.737	-0.0022	/	Pass			
50	3.91	-2.727	-0.0011	/	Pass						
2510	100	0	20	3.91	-2.838	-0.0011	/	Pass			
				3.5	-0.531	-0.0002	/	Pass			
				4.5	1.765	0.0007	/	Pass			
			-30	3.91	-0.503	-0.0002	/	Pass			
			-20	3.91	-0.701	-0.0003	/	Pass			
			-10	3.91	4.752	0.0019	/	Pass			
			0	3.91	0.660	0.0003	/	Pass			
			10	3.91	-1.069	-0.0004	/	Pass			
			30	3.91	-2.807	-0.0011	/	Pass			
			40	3.91	-1.095	-0.0004	/	Pass			
			50	3.91	-1.081	-0.0004	/	Pass			
			2535	100	0	20	3.91	-8.574	-0.0034	/	Pass
							3.5	0.662	0.0003	/	Pass
4.5	-8.243	-0.0033					/	Pass			
-30	3.91	-9.748				-0.0038	/	Pass			
-20	3.91	-5.025				-0.0020	/	Pass			
-10	3.91	-4.582				-0.0018	/	Pass			
0	3.91	-3.398				-0.0013	/	Pass			
10	3.91	-2.300				-0.0009	/	Pass			
30	3.91	-2.249				-0.0009	/	Pass			
40	3.91	3.802				0.0015	/	Pass			
50	3.91	0.504	0.0002	/	Pass						
2560	100	0	20	3.91	-3.444	-0.0013	/	Pass			
				3.5	5.387	0.0021	/	Pass			



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				4.5	-3.239	-0.0013	/	Pass
				-30	3.91	-1.218	-0.0005	Pass
				-20	3.91	-5.416	-0.0021	Pass
				-10	3.91	-1.050	-0.0004	Pass
				0	3.91	2.366	0.0009	Pass
				10	3.91	-6.359	-0.0025	Pass
				30	3.91	-4.467	-0.0017	Pass
				40	3.91	-4.528	-0.0018	Pass
				50	3.91	1.557	0.0006	Pass



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## 3. 99% & 26dB Bandwidth

### 3.1 Band7\_OBW

#### 3.1.1 Test Result

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.560	/	Pass
		2535	25	0	4.538	/	Pass
		2567.5	25	0	4.556	/	Pass
	16QAM	2502.5	25	0	4.548	/	Pass
		2535	25	0	4.550	/	Pass
		2567.5	25	0	4.558	/	Pass
	64QAM	2502.5	25	0	4.539	/	Pass
		2535	25	0	4.548	/	Pass
		2567.5	25	0	4.542	/	Pass
10	QPSK	2505	50	0	9.073	/	Pass
		2535	50	0	9.021	/	Pass
		2565	50	0	9.067	/	Pass
	16QAM	2505	50	0	9.053	/	Pass
		2535	50	0	9.045	/	Pass
		2565	50	0	9.055	/	Pass
	64QAM	2505	50	0	9.026	/	Pass
		2535	50	0	9.021	/	Pass
		2565	50	0	9.047	/	Pass
15	QPSK	2507.5	75	0	13.601	/	Pass
		2535	75	0	13.541	/	Pass
		2562.5	75	0	13.553	/	Pass
	16QAM	2507.5	75	0	13.563	/	Pass
		2535	75	0	13.565	/	Pass
		2562.5	75	0	13.525	/	Pass
	64QAM	2507.5	75	0	13.566	/	Pass
		2535	75	0	13.574	/	Pass
		2562.5	75	0	13.615	/	Pass
20	QPSK	2510	100	0	18.093	/	Pass
		2535	100	0	18.092	/	Pass
		2560	100	0	18.098	/	Pass
	16QAM	2510	100	0	18.120	/	Pass
		2535	100	0	18.060	/	Pass
		2560	100	0	18.057	/	Pass
	64QAM	2510	100	0	18.029	/	Pass
		2535	100	0	18.130	/	Pass
		2560	100	0	18.062	/	Pass



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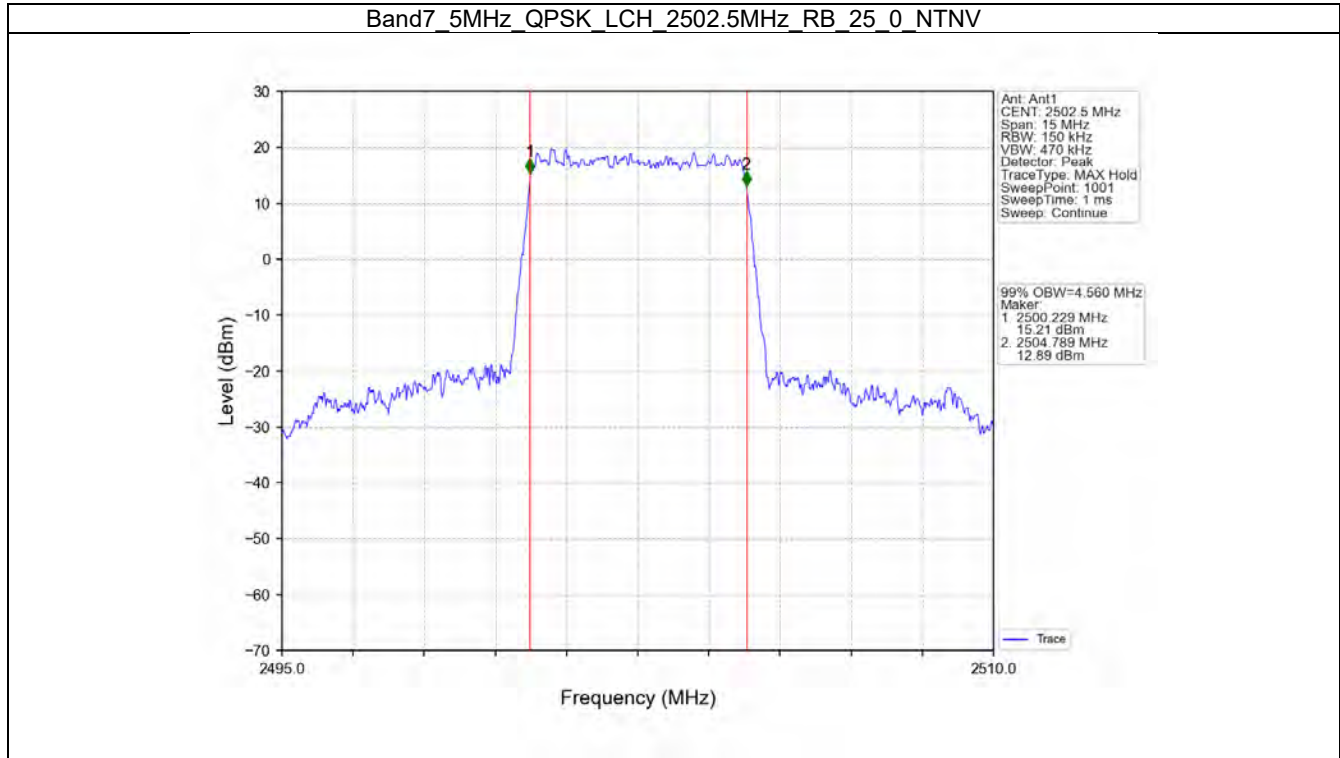
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## 3.1.2 Test Graph



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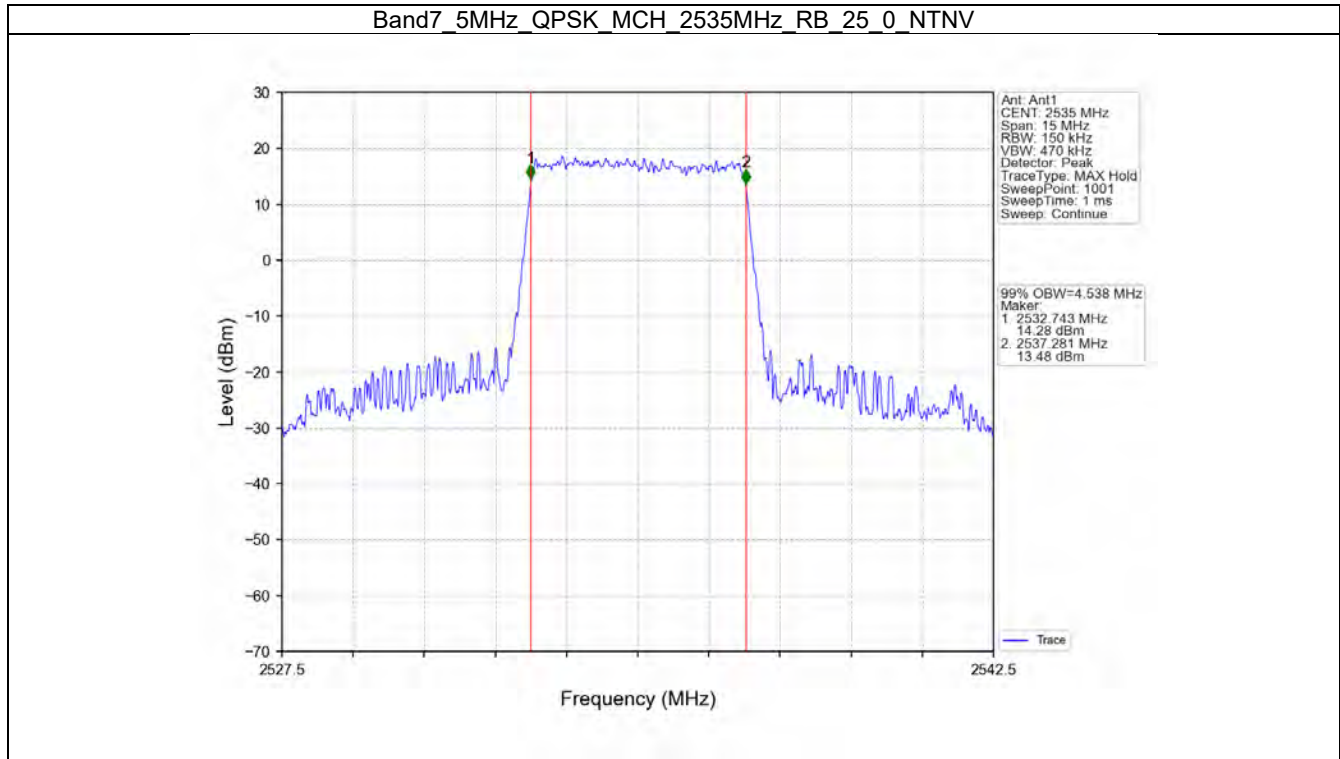
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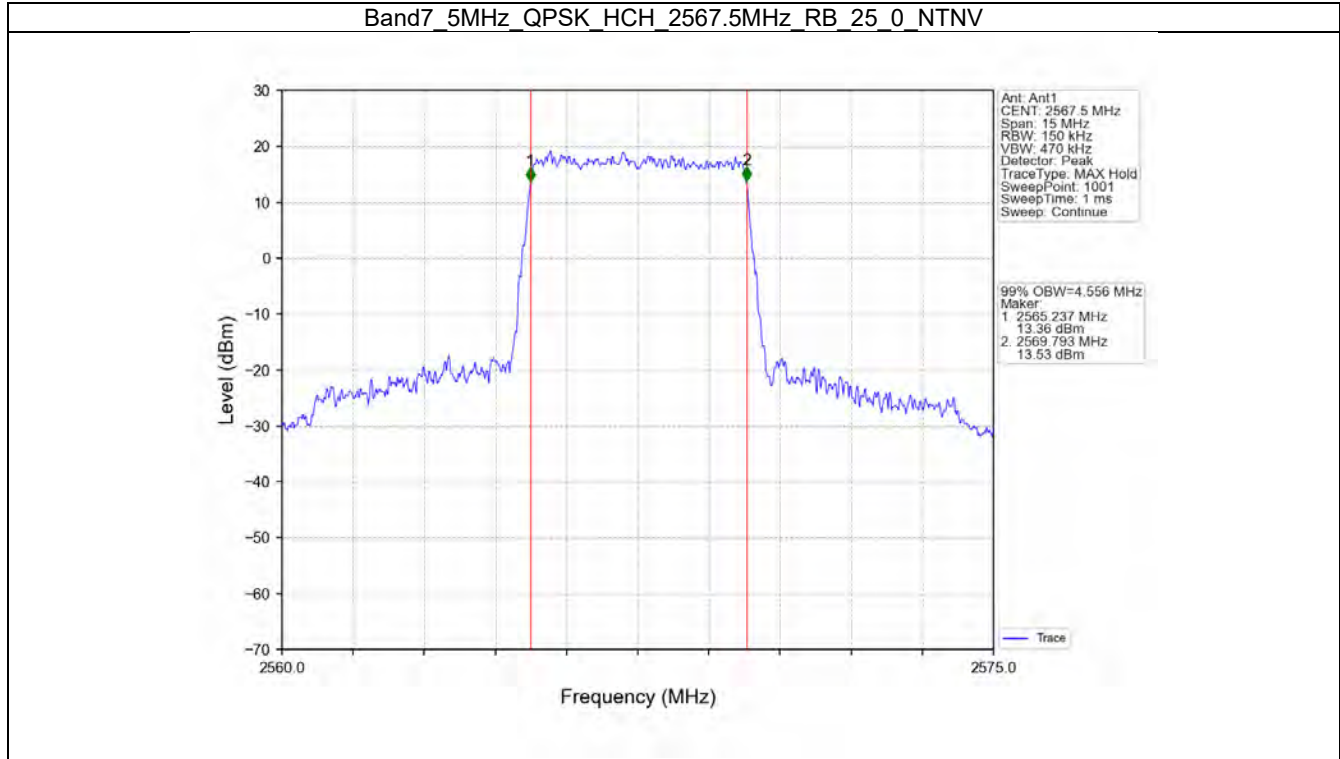
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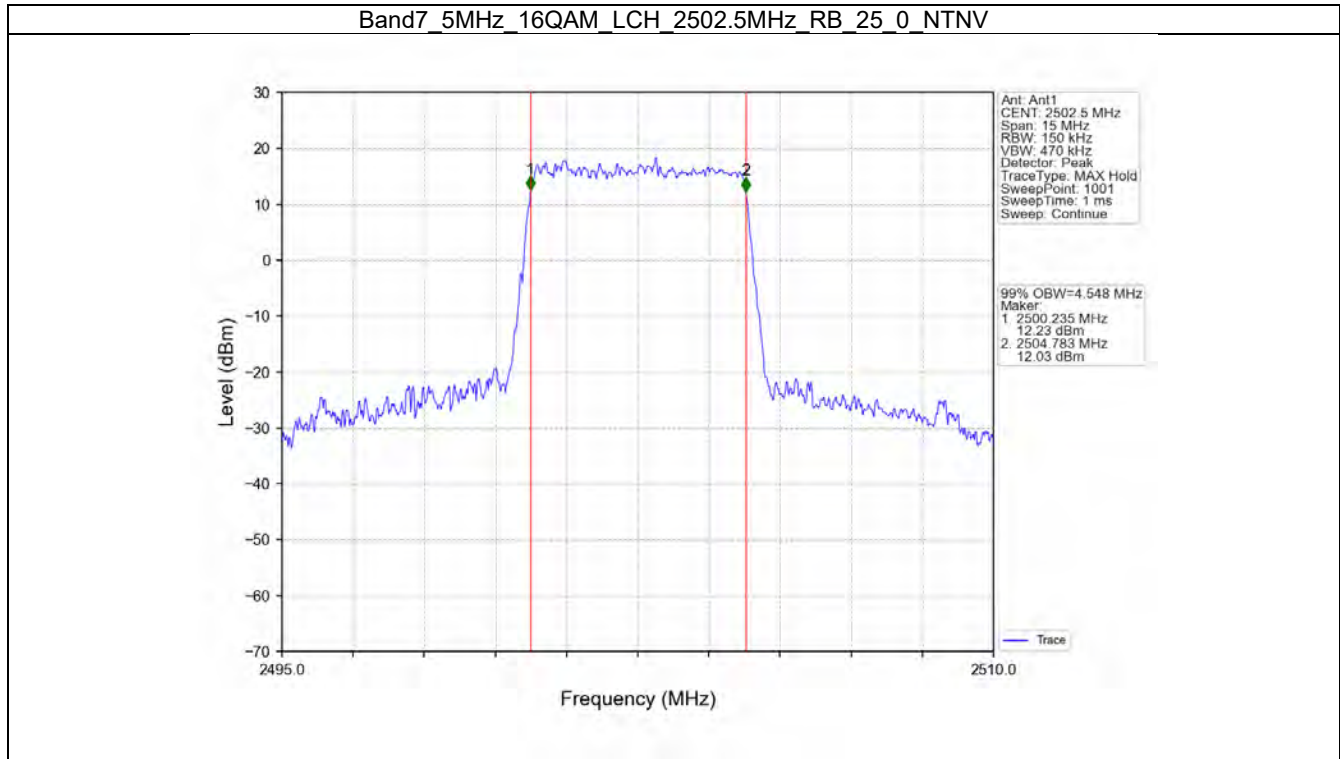


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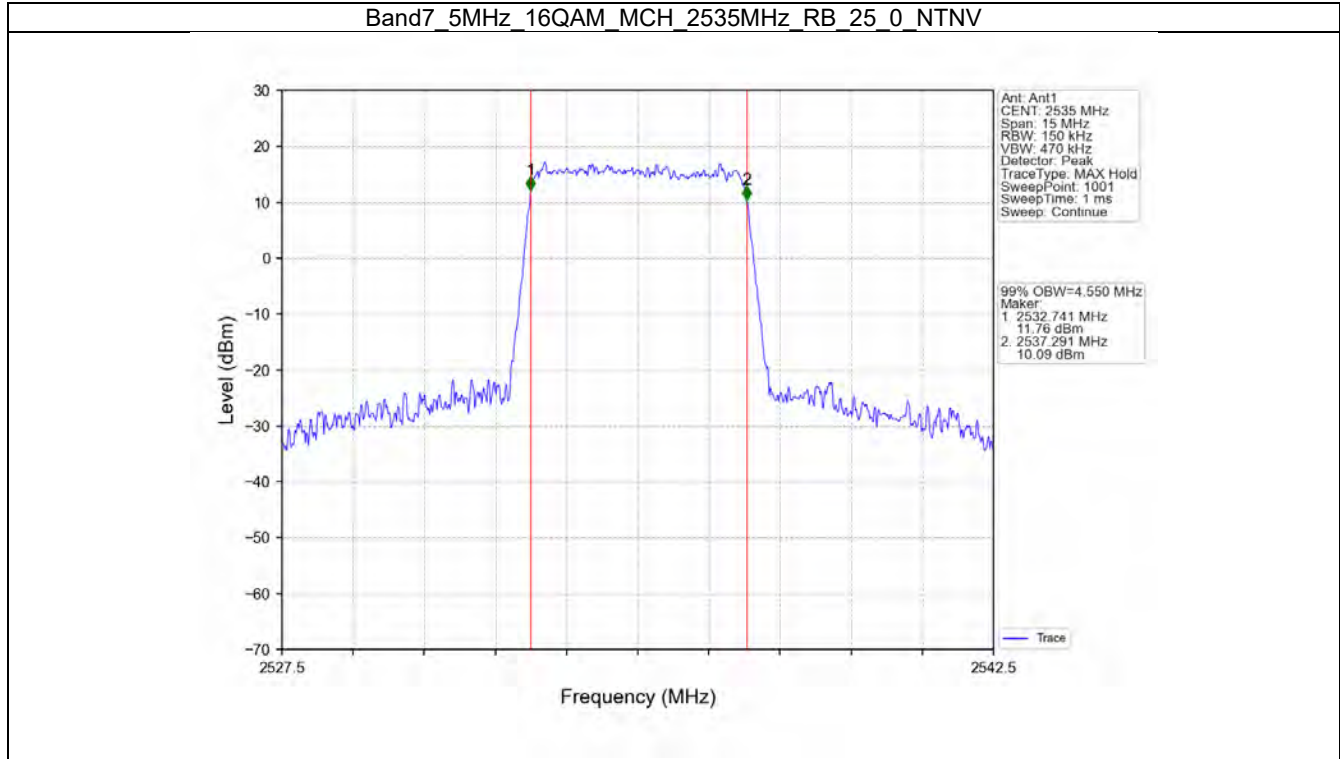
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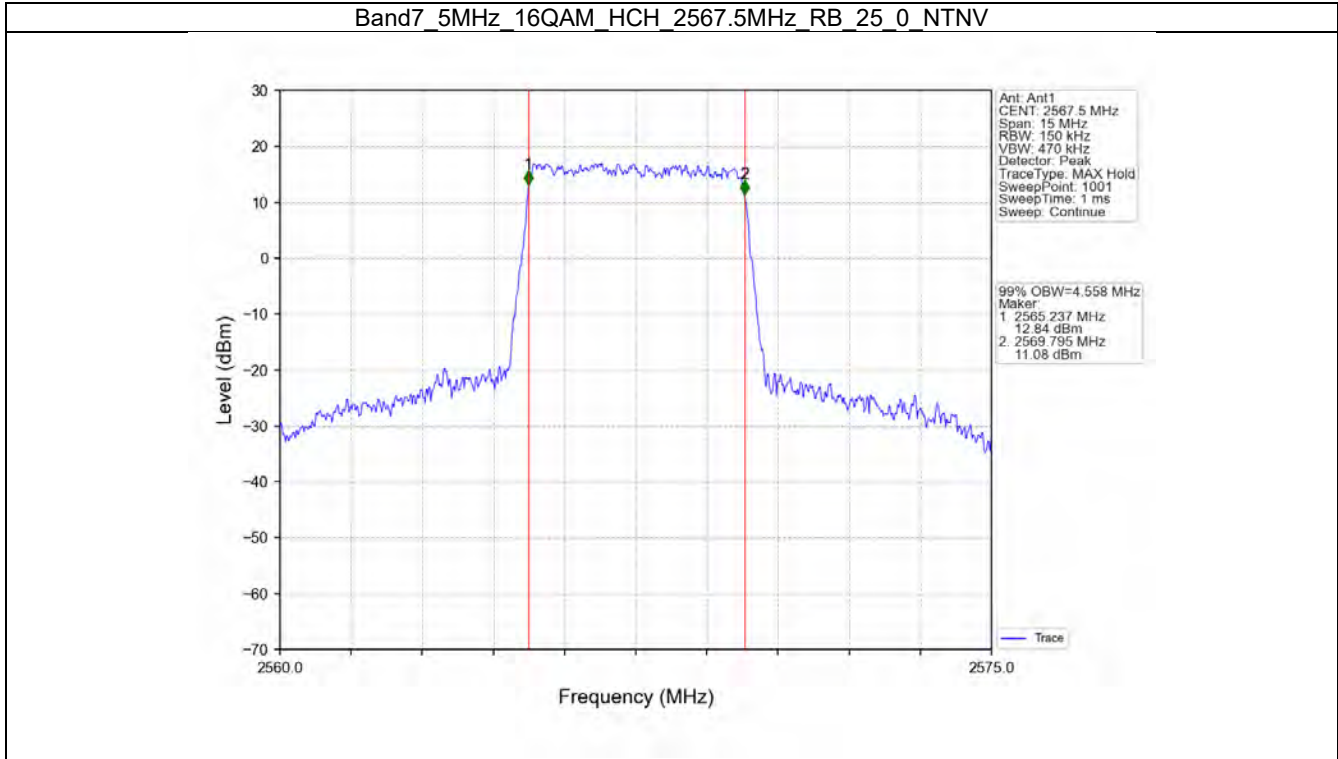
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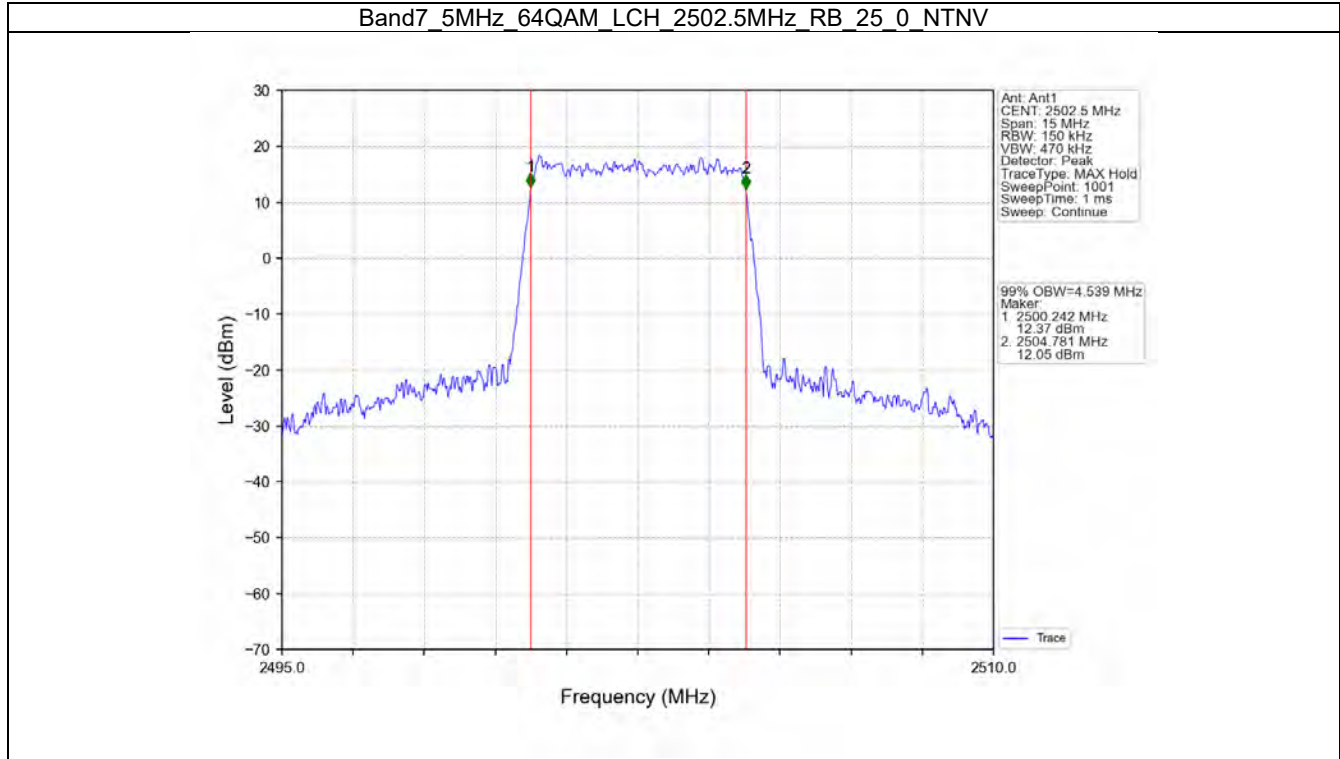
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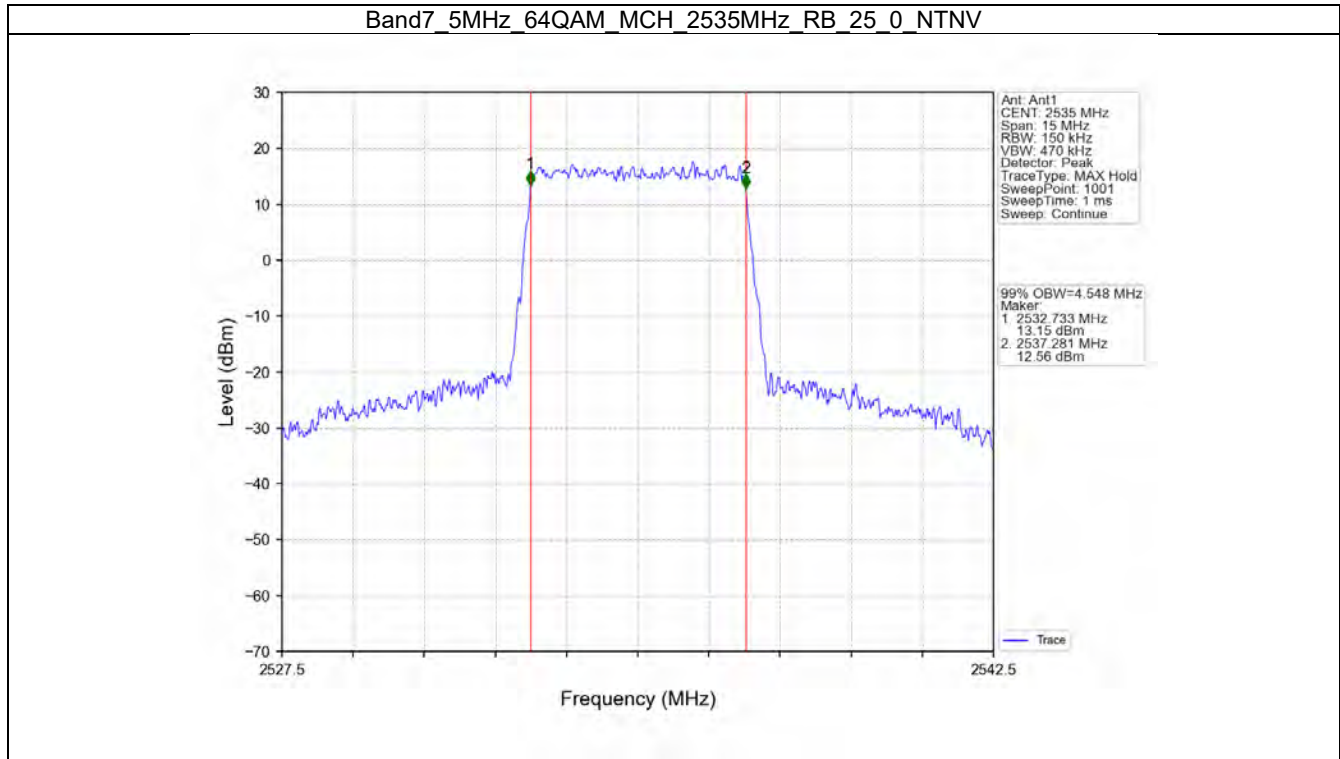


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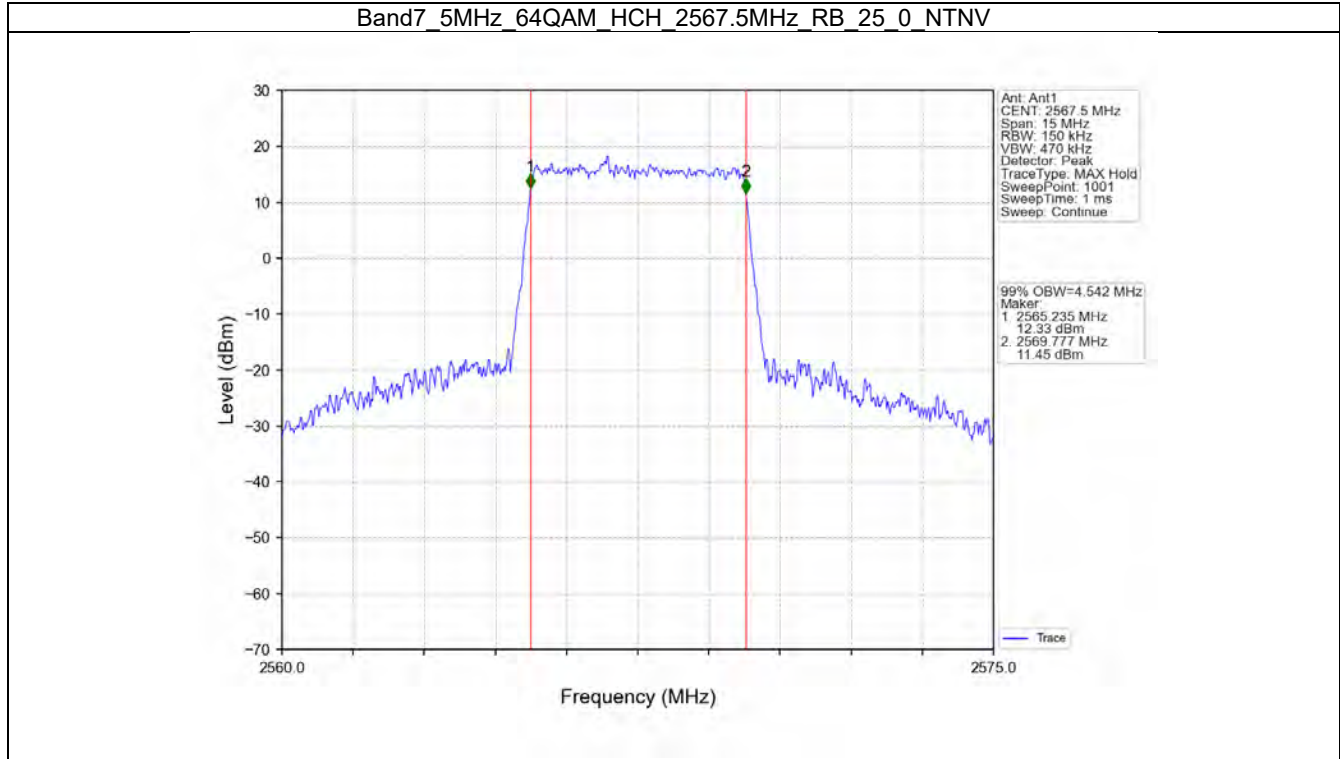
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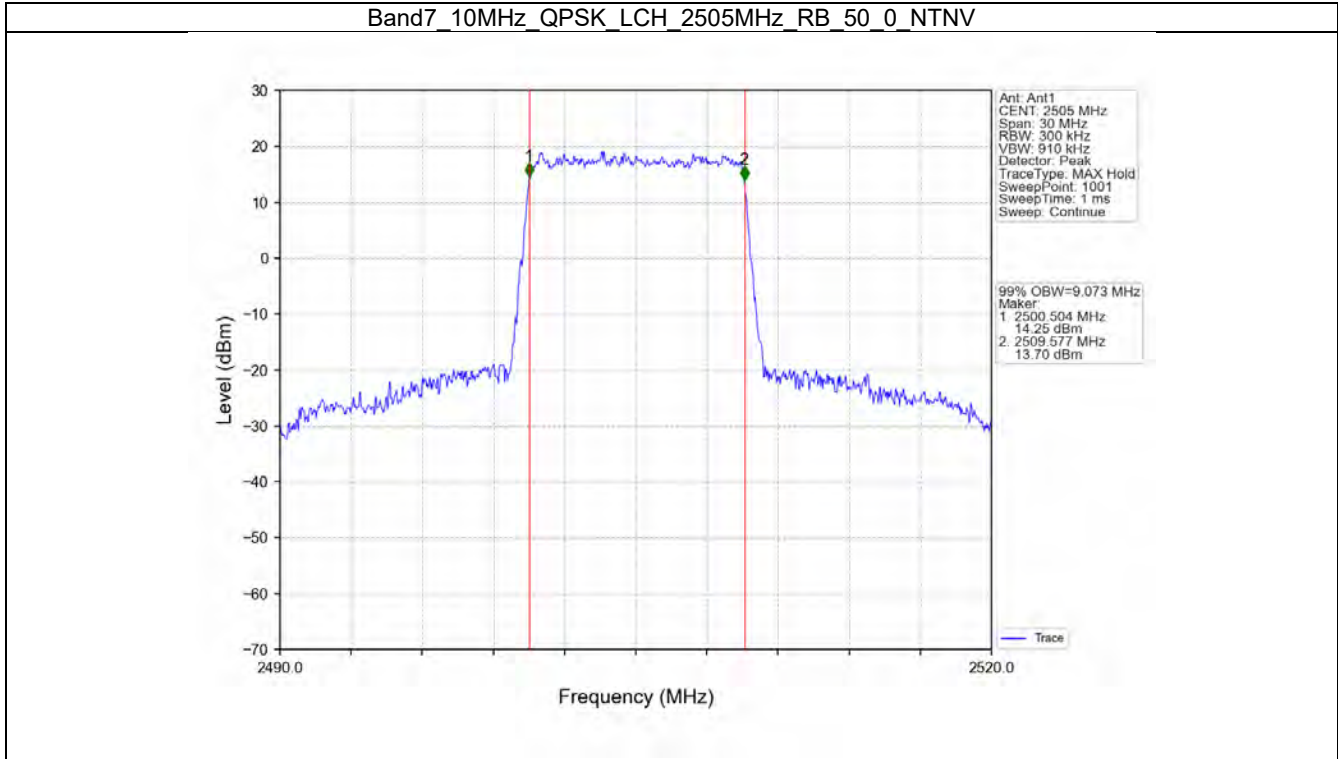
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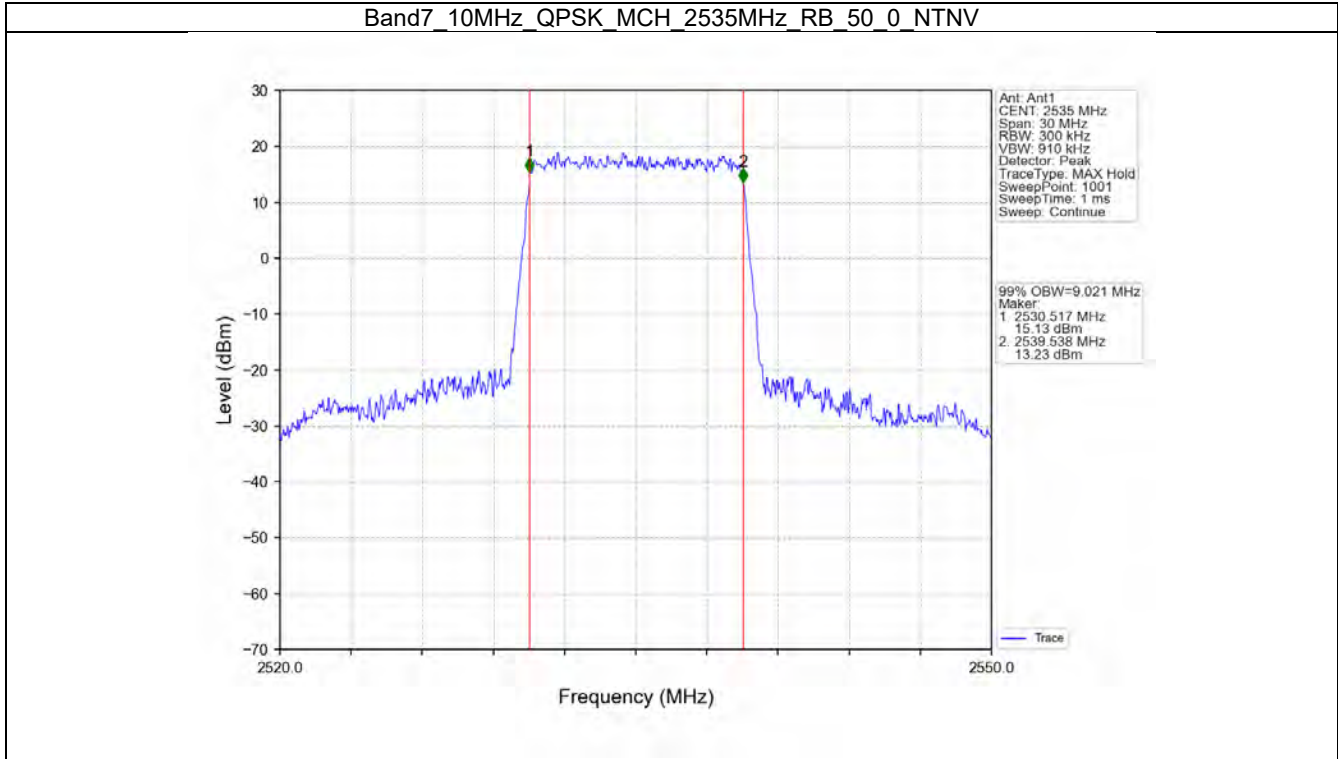
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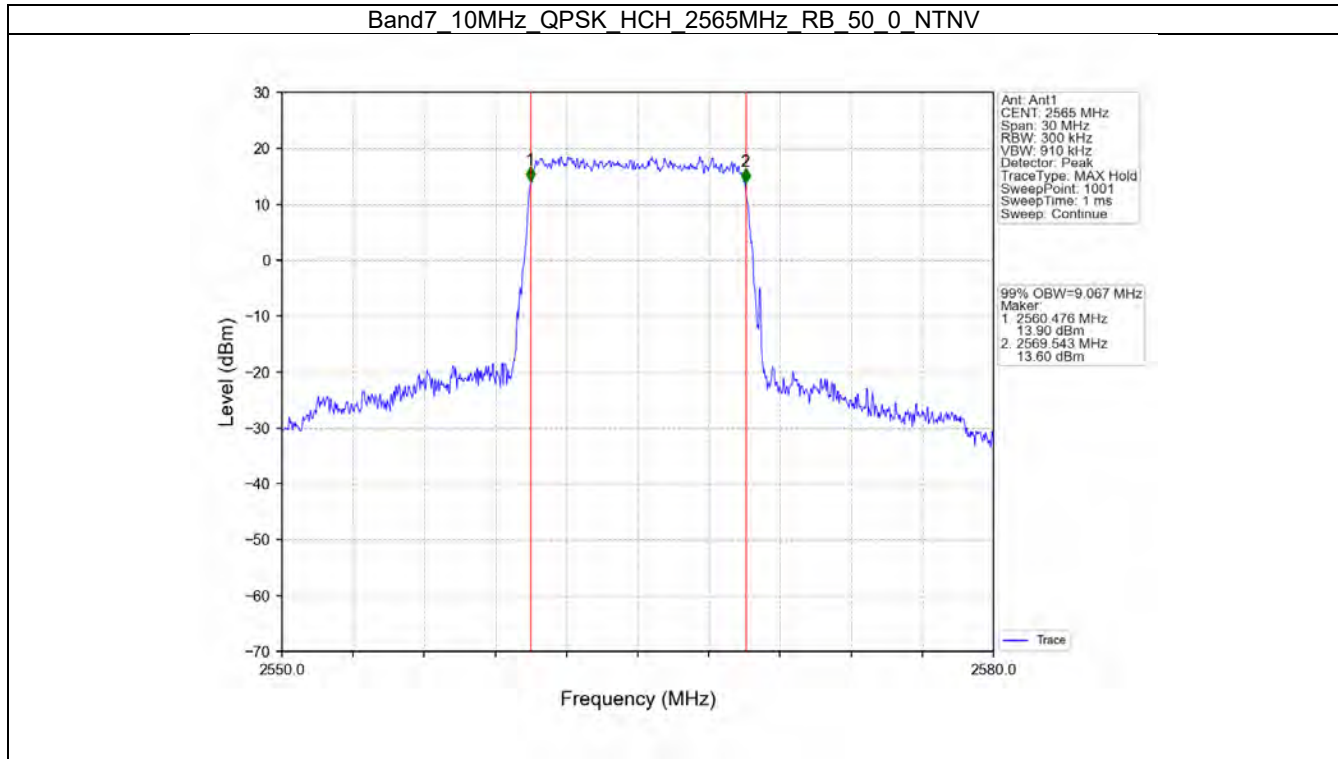


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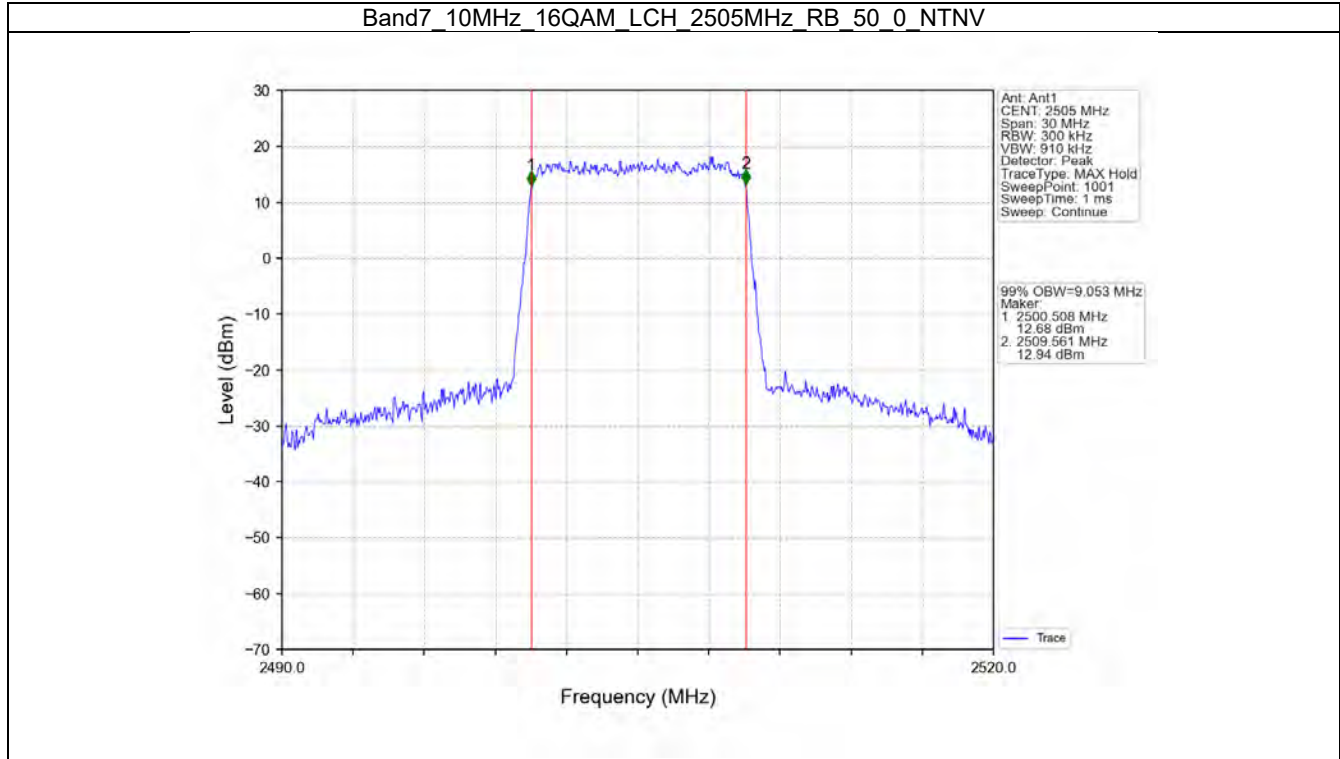
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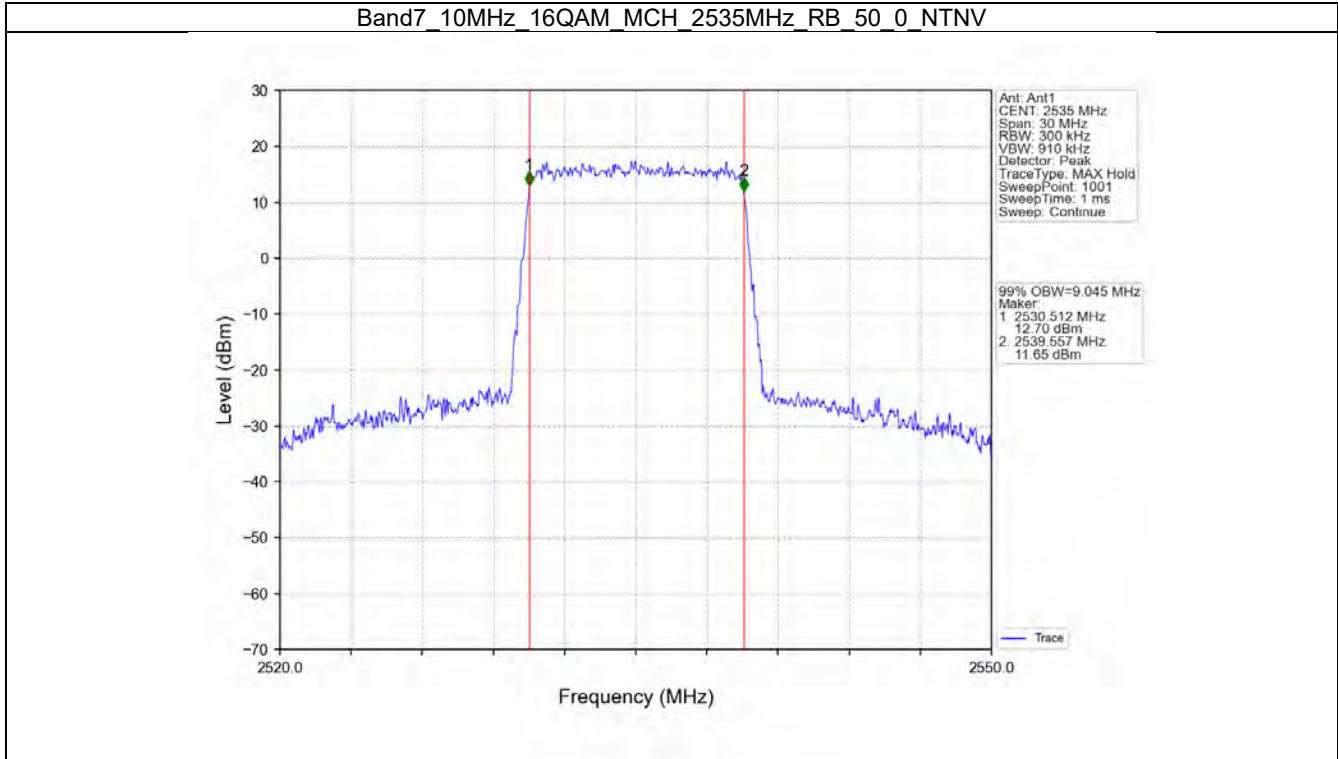
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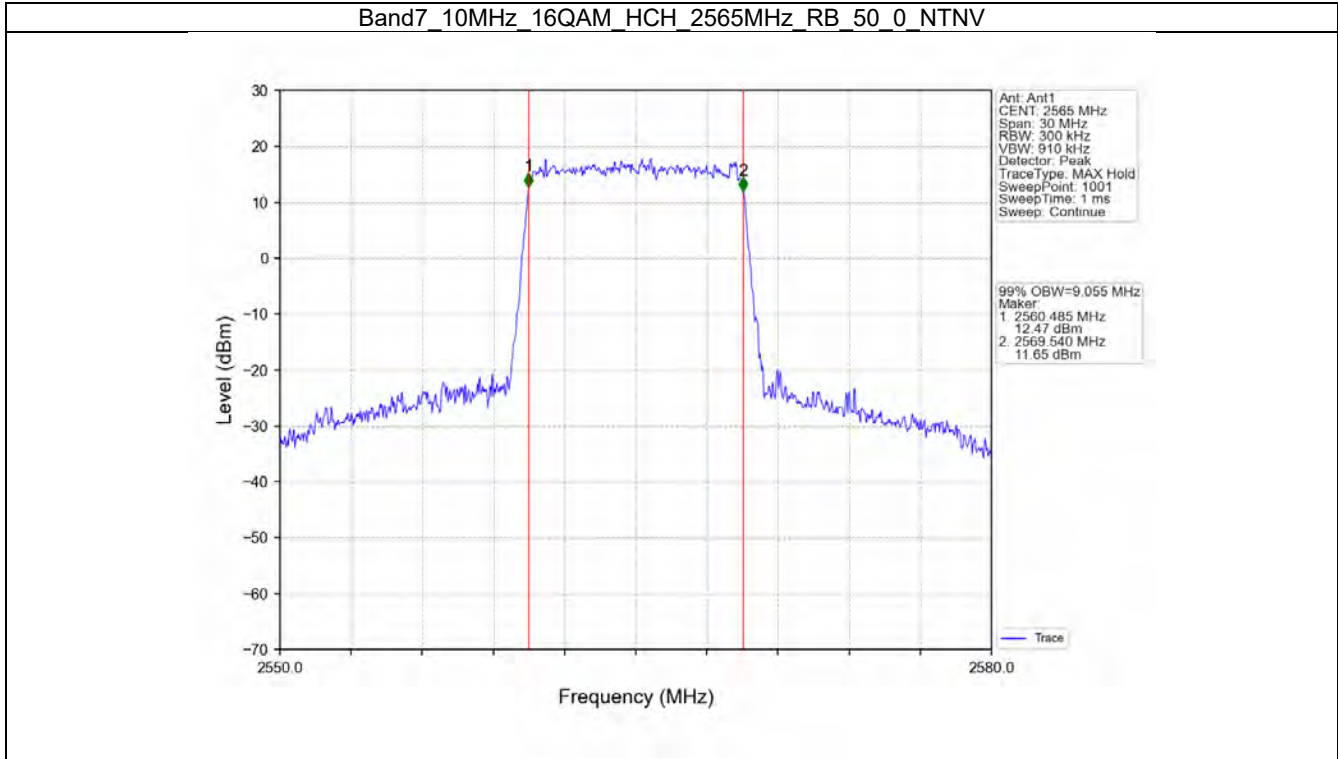
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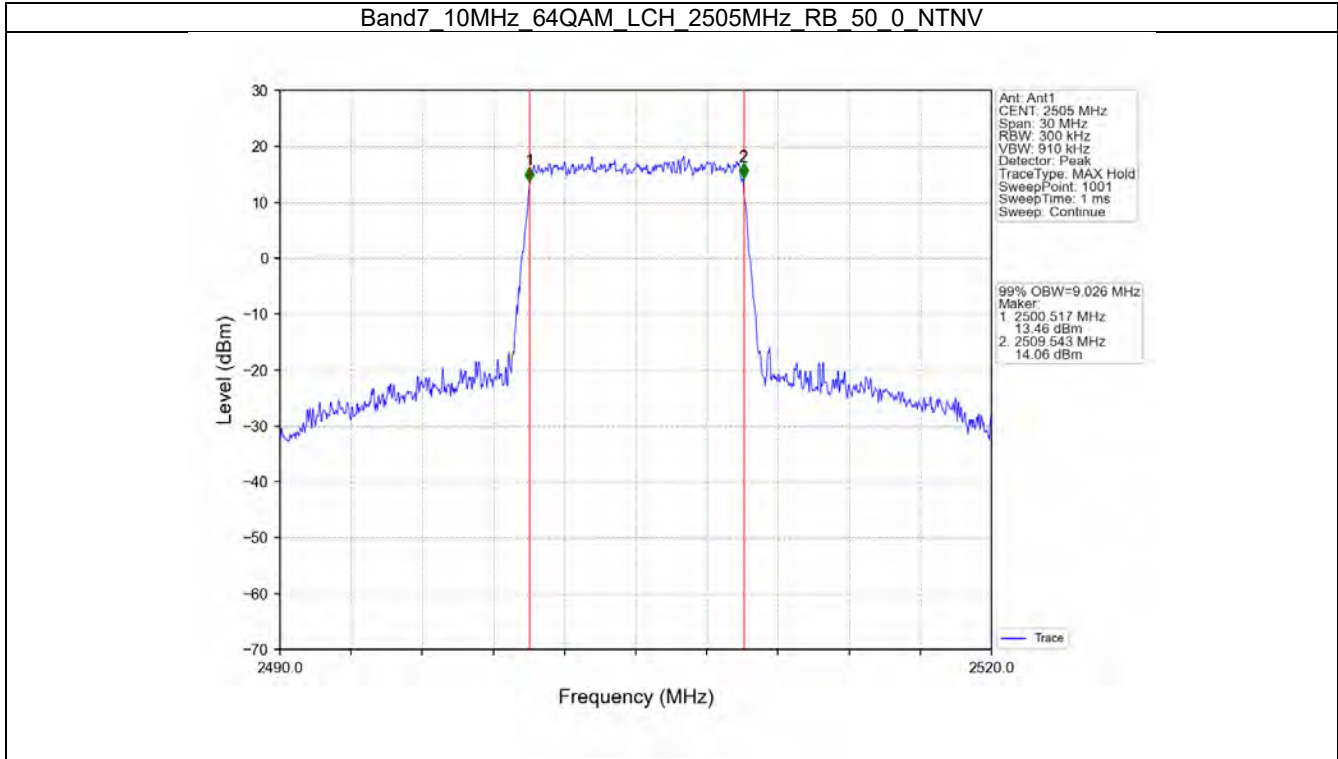
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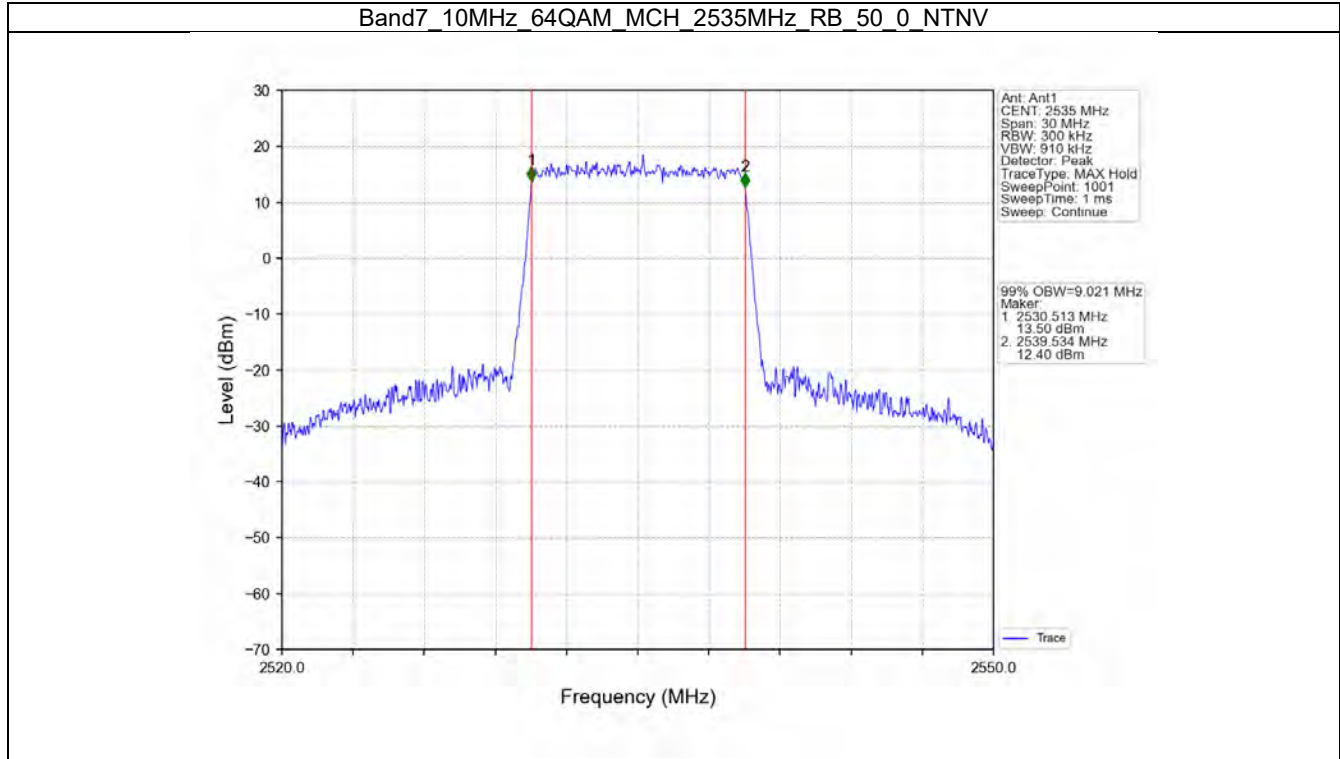
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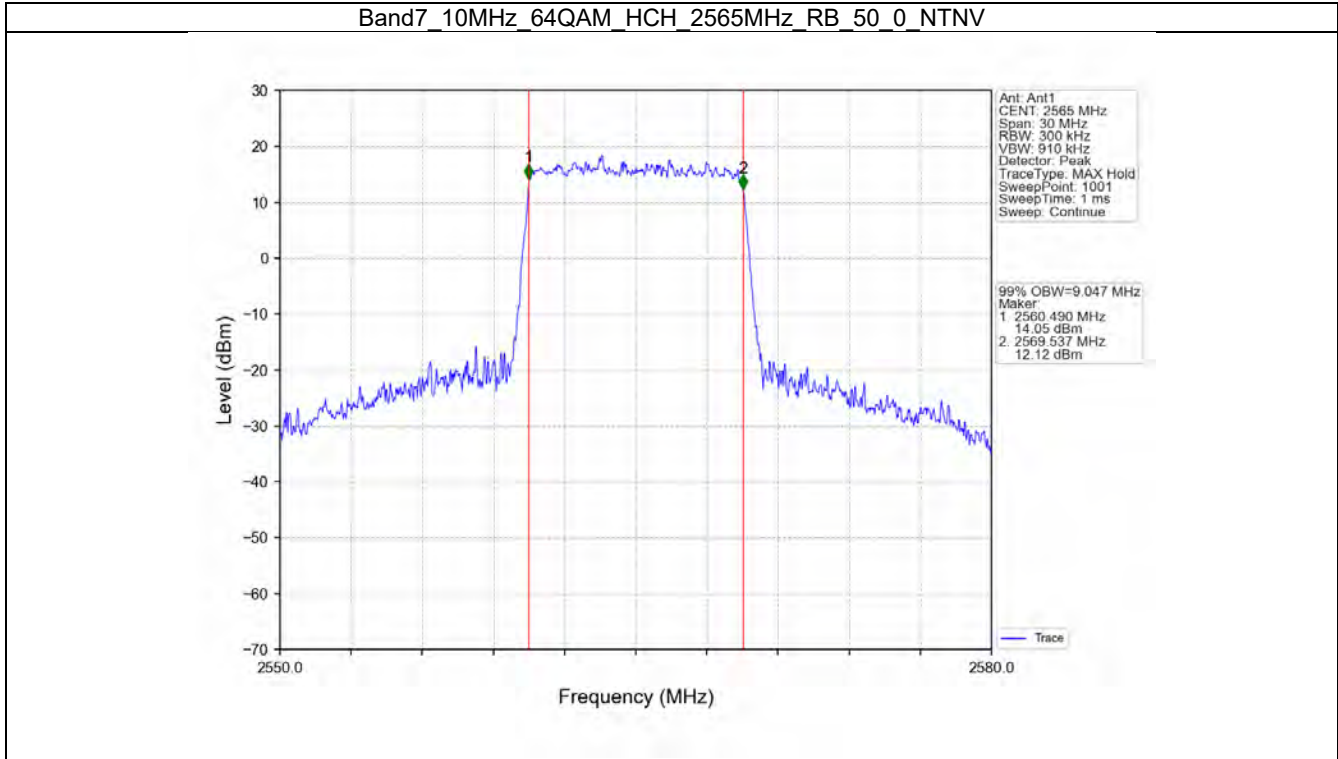
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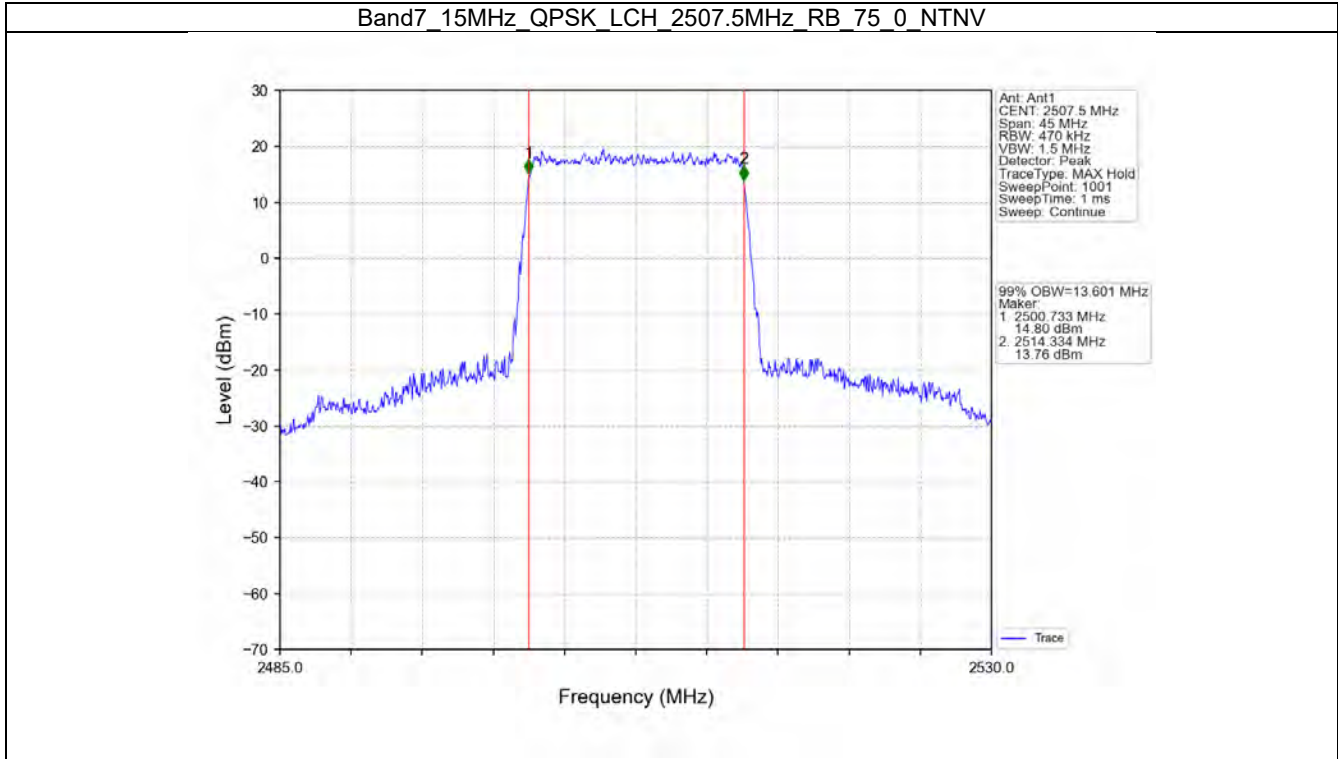
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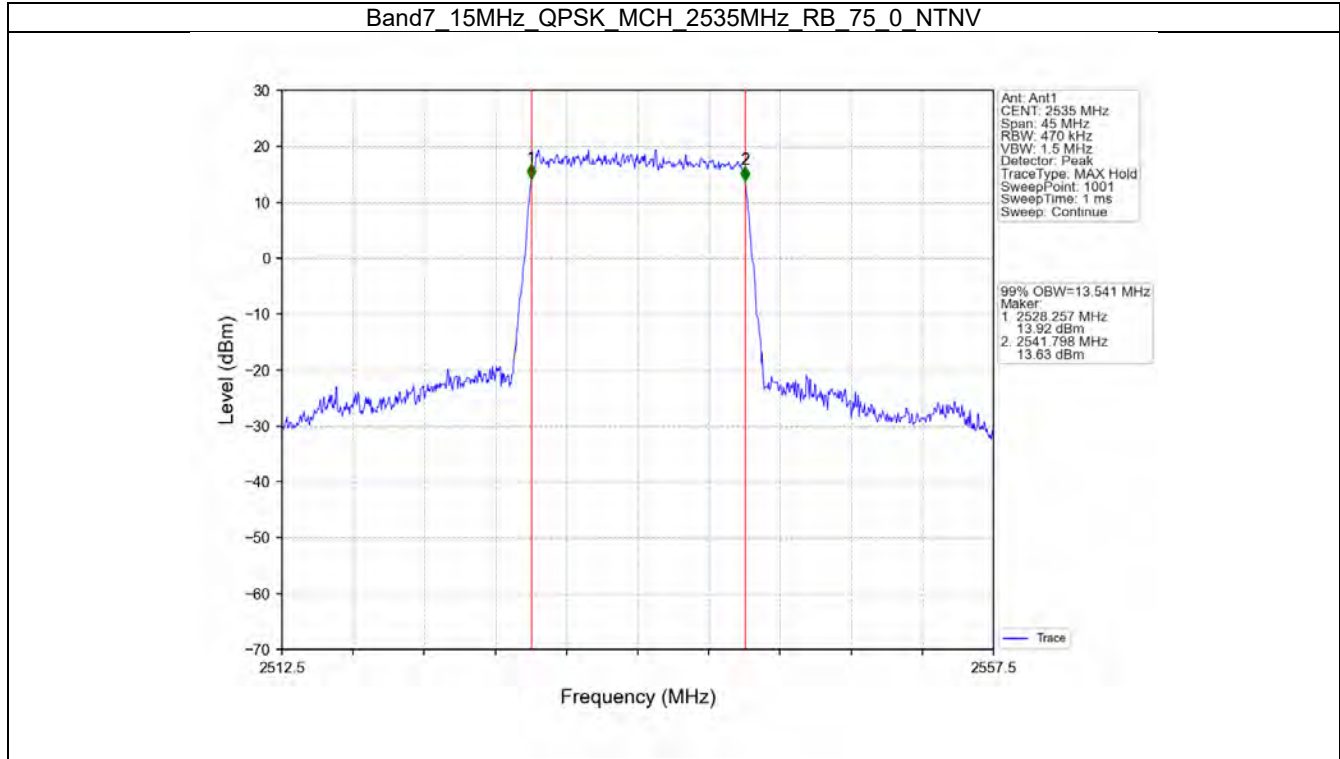
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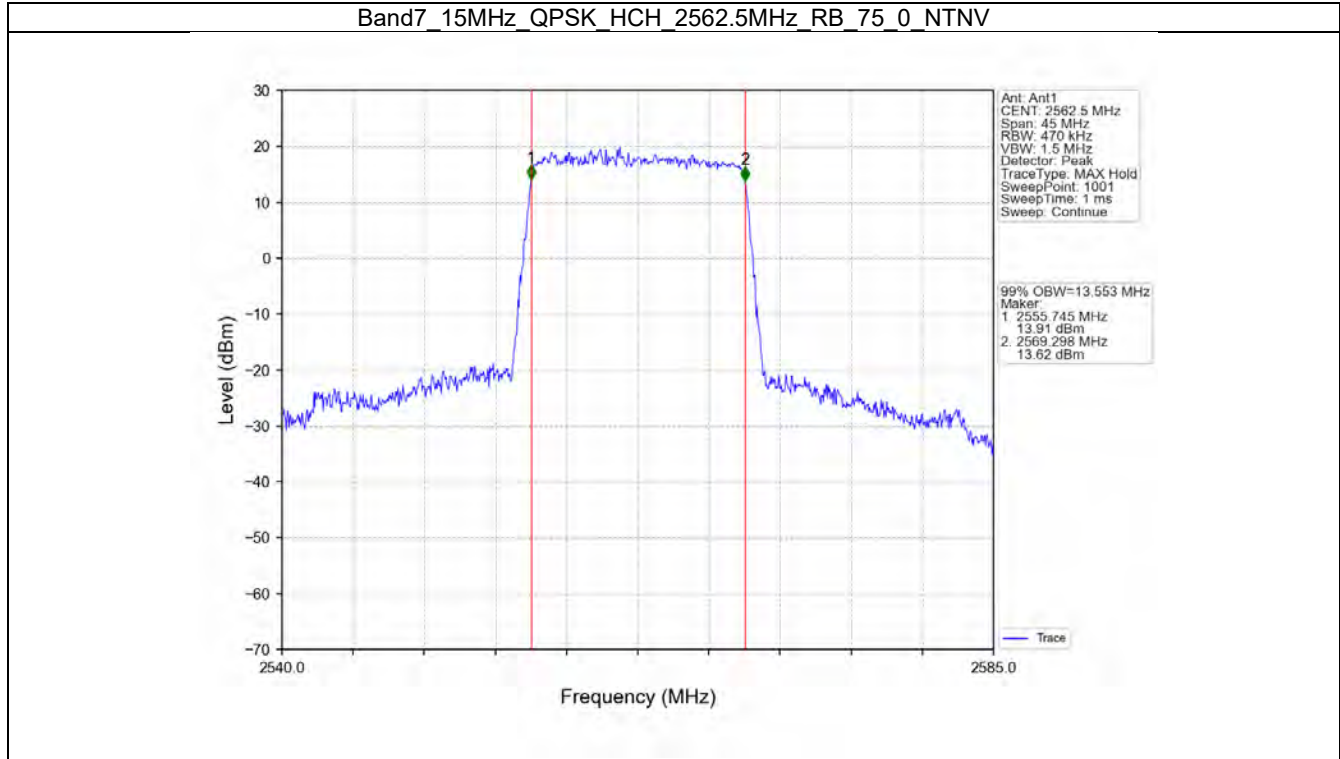
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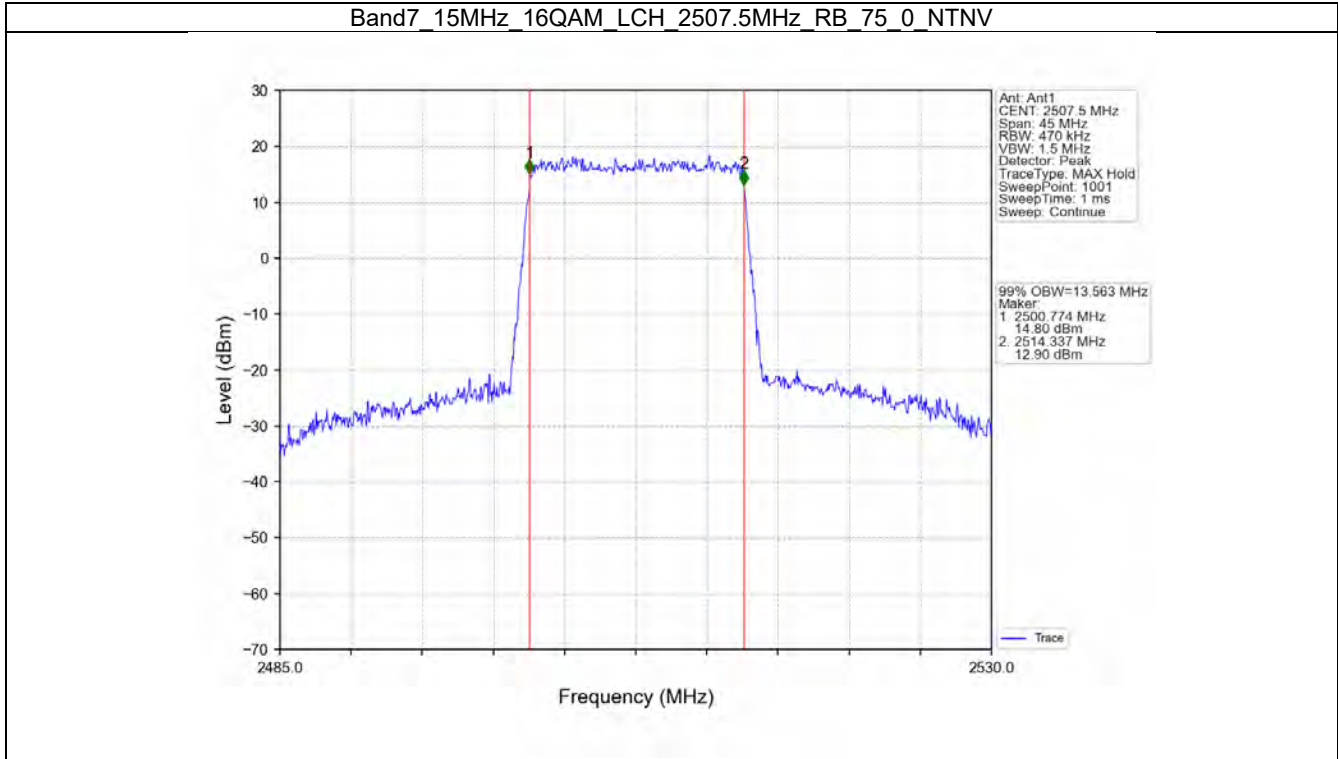
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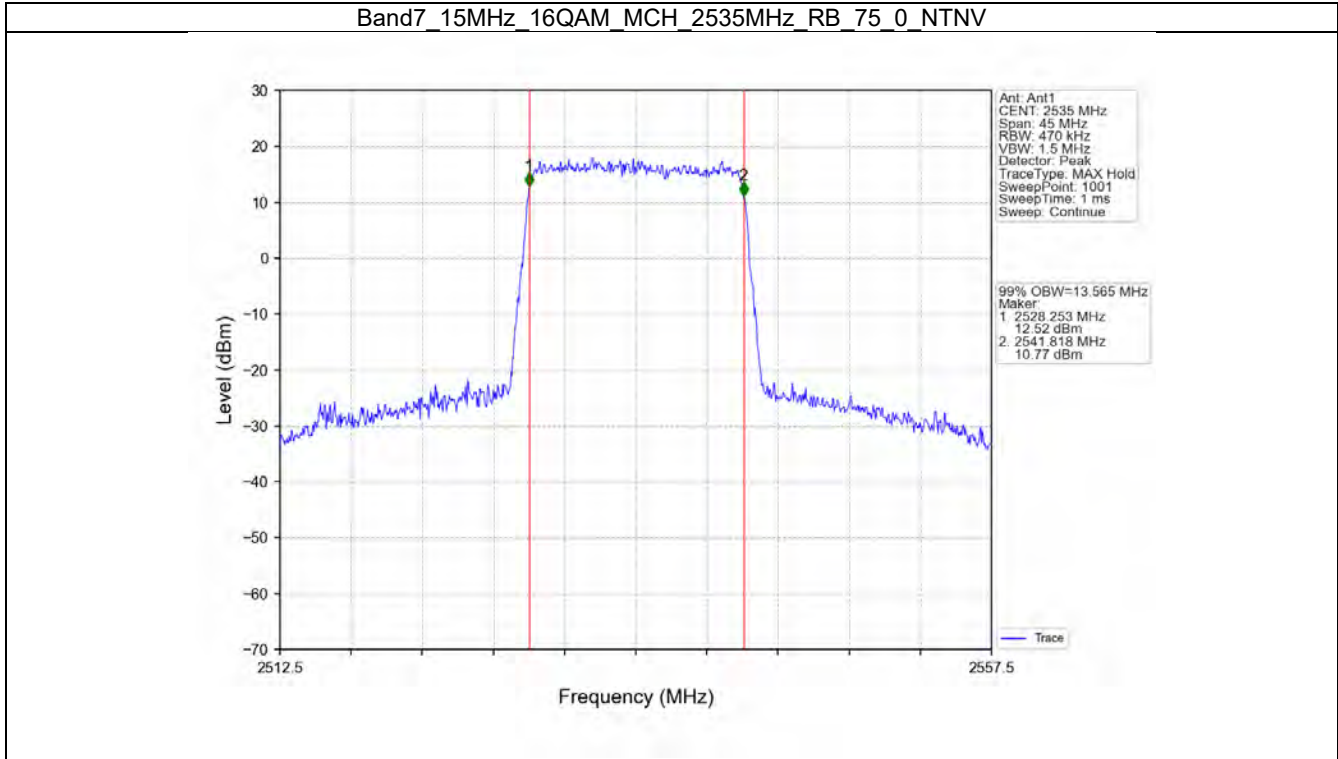
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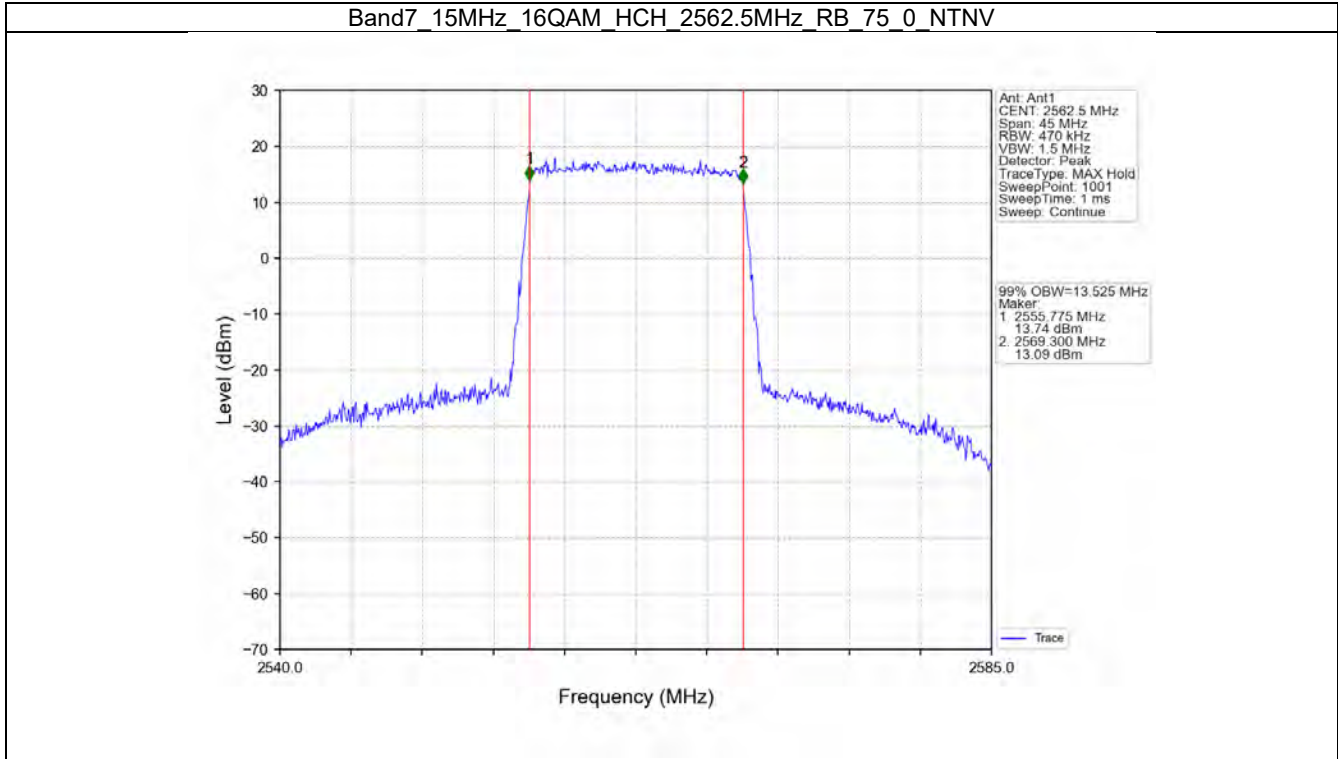
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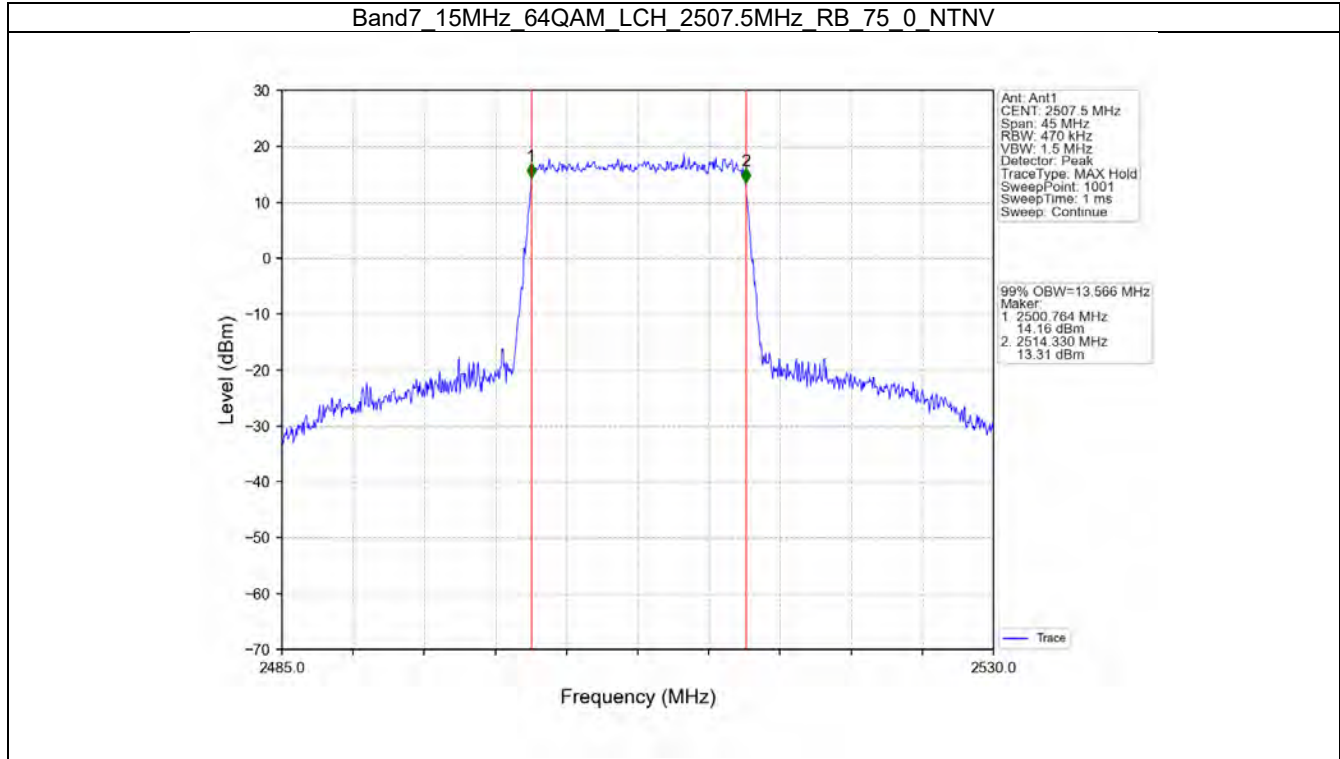
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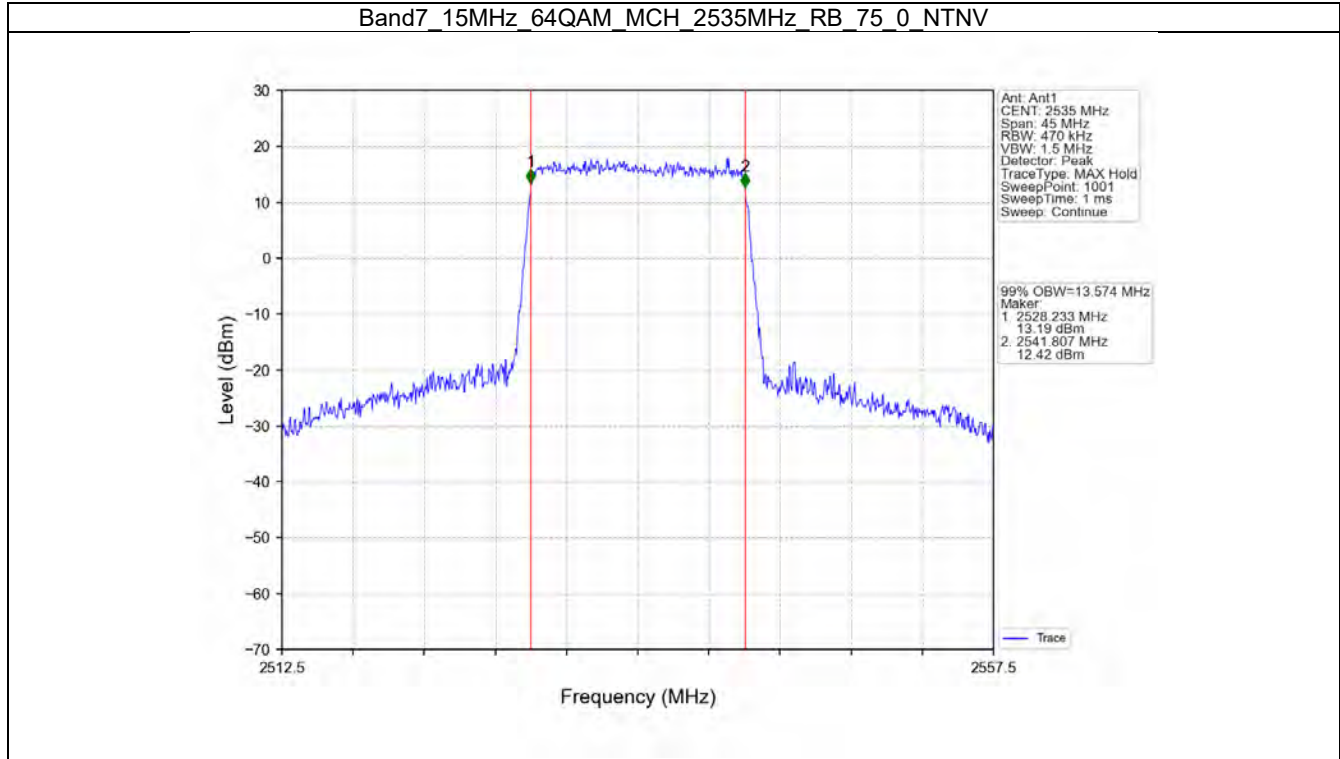
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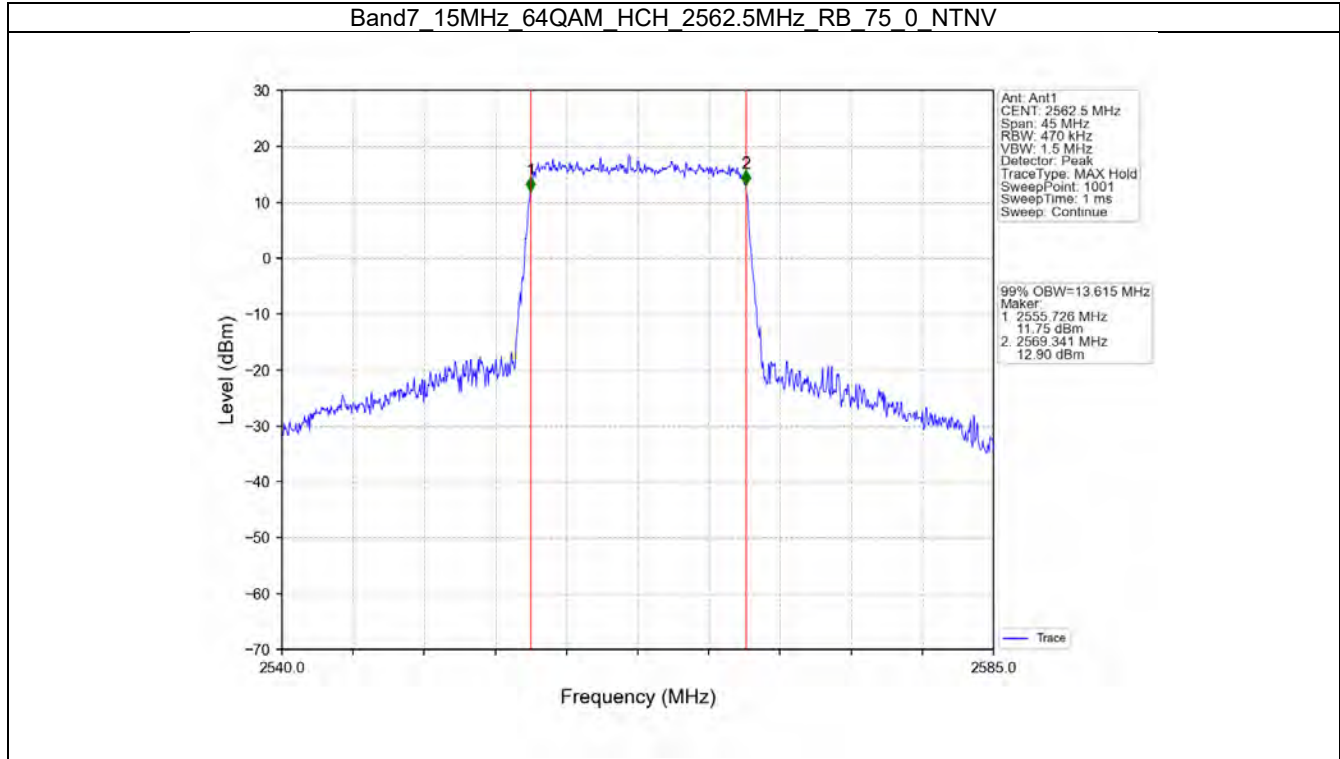
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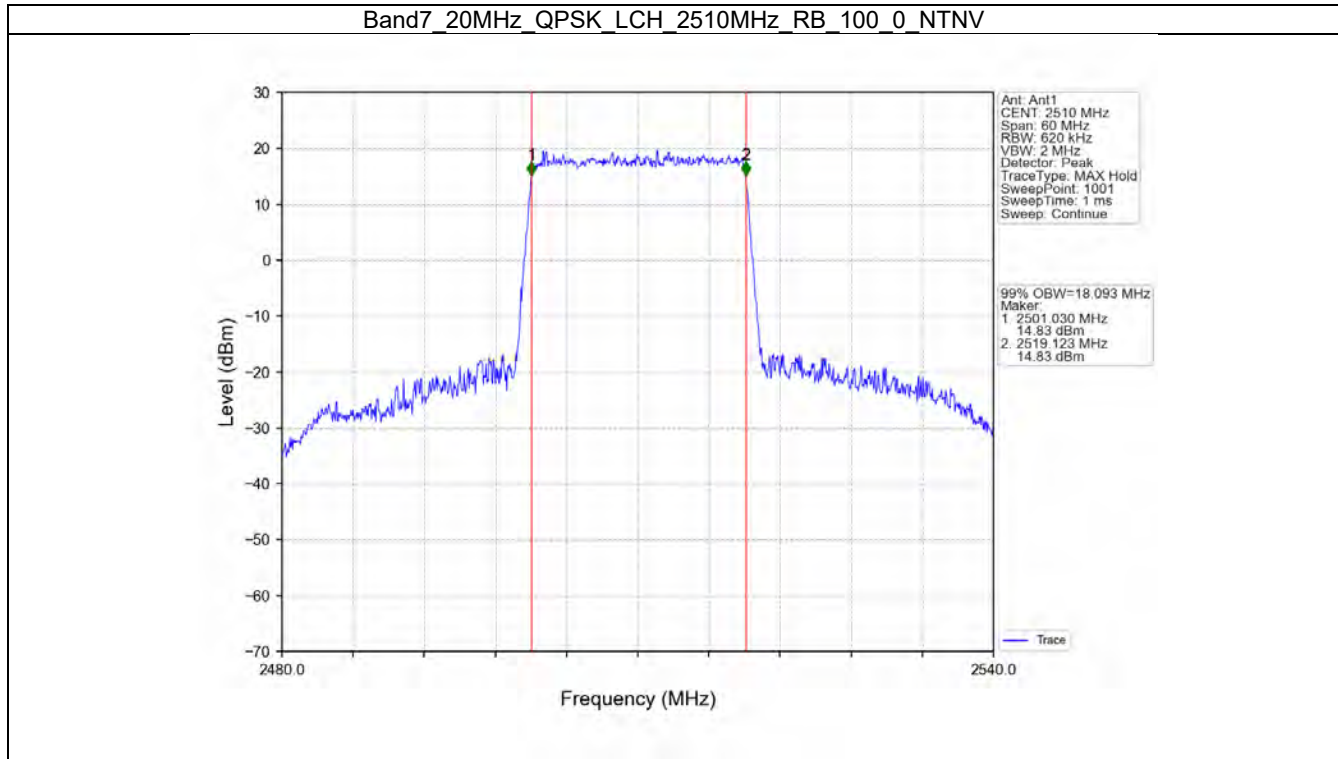


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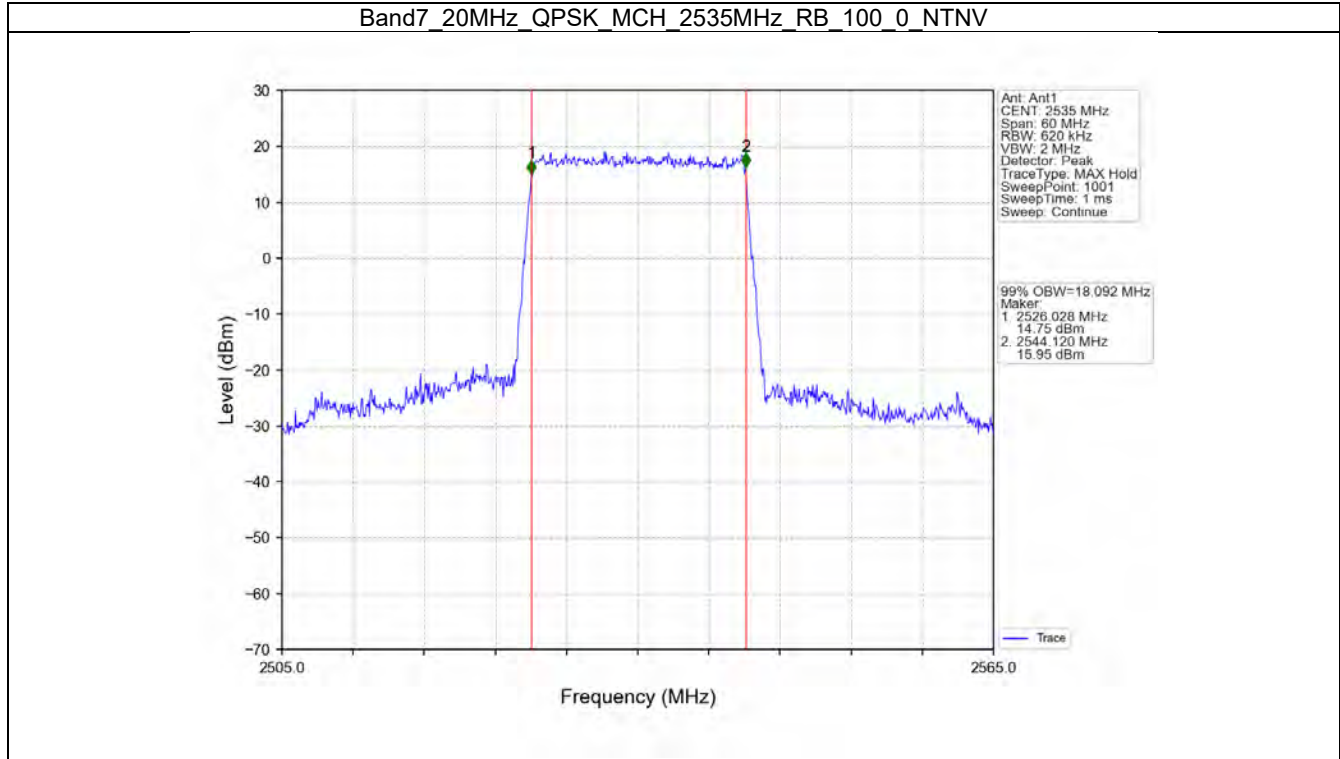
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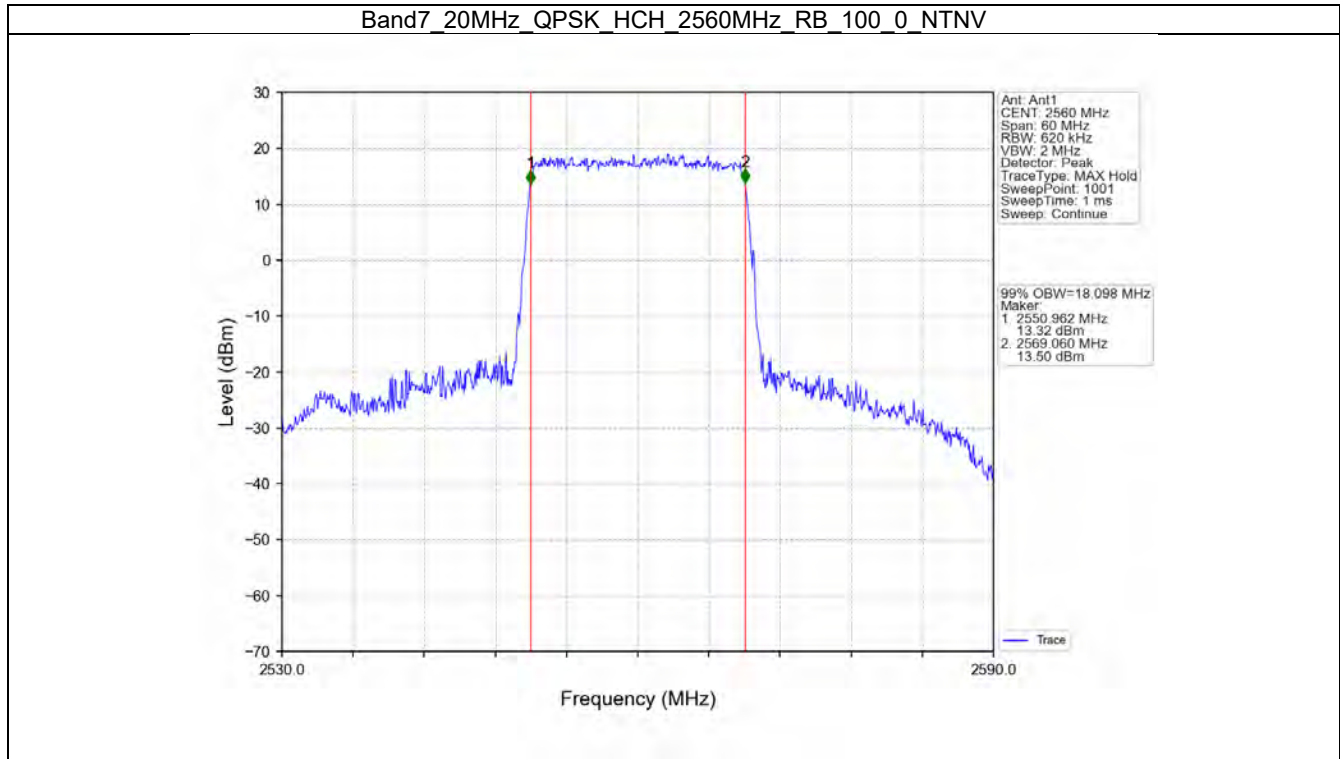


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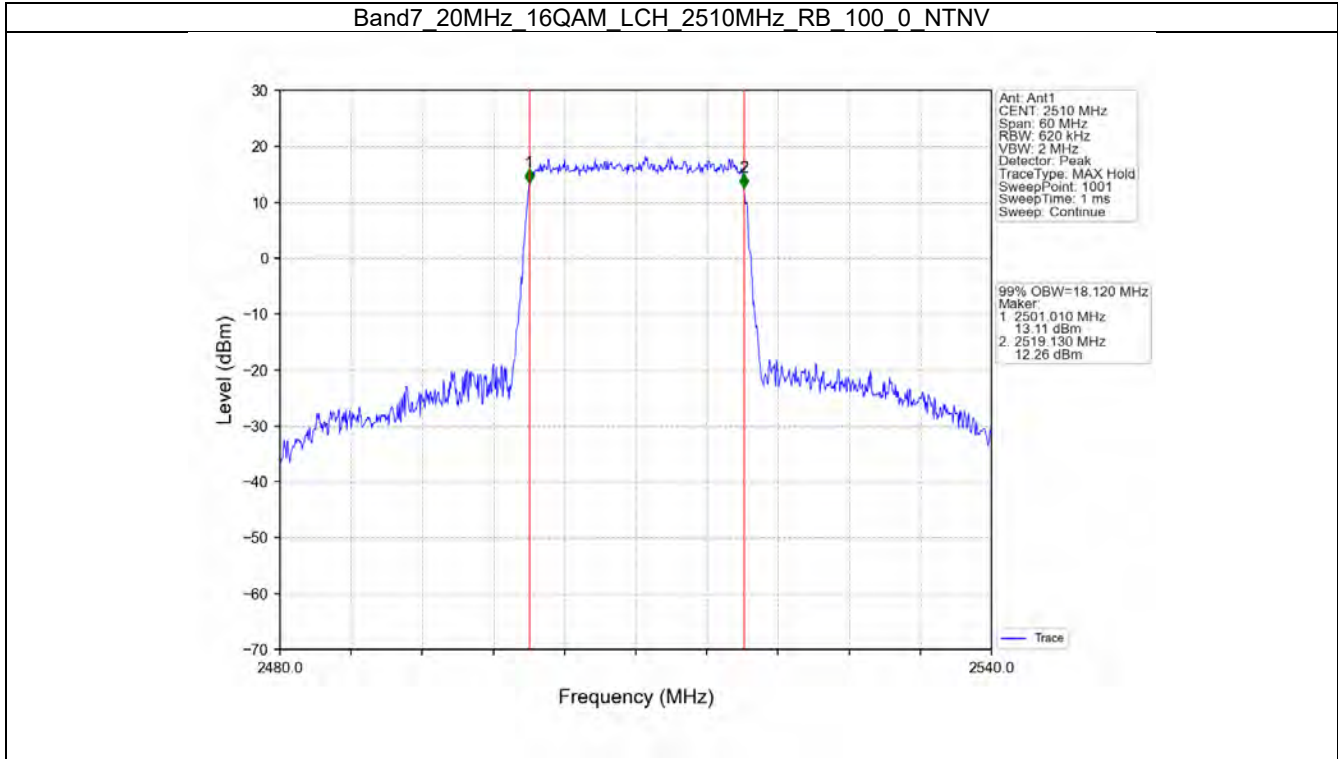
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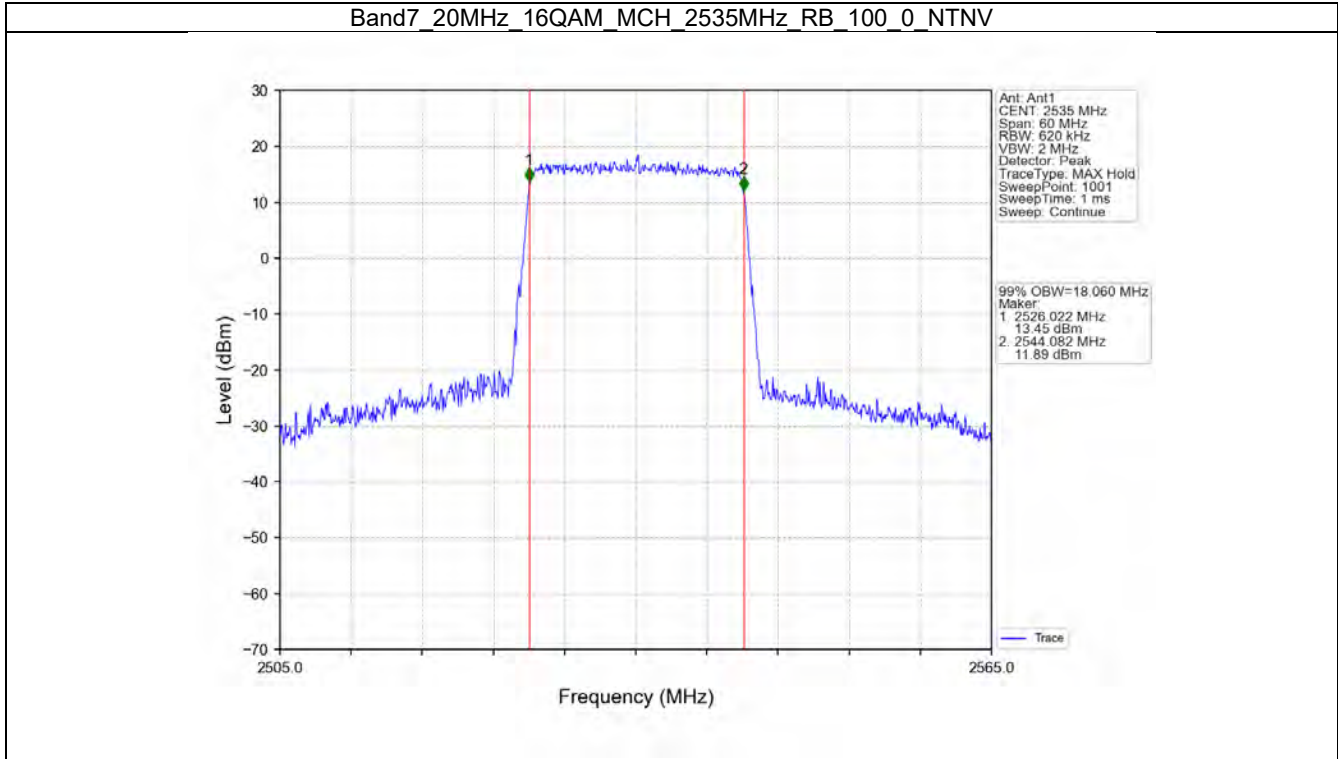
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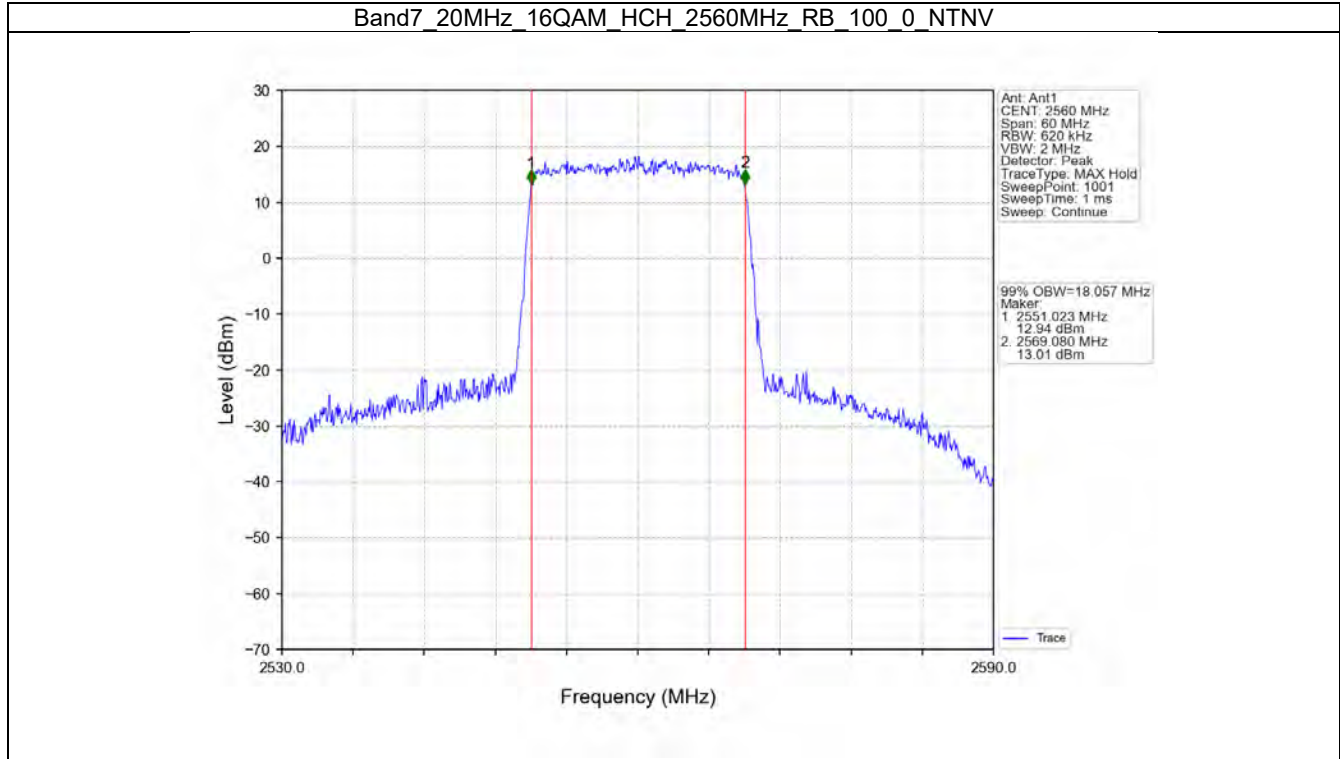
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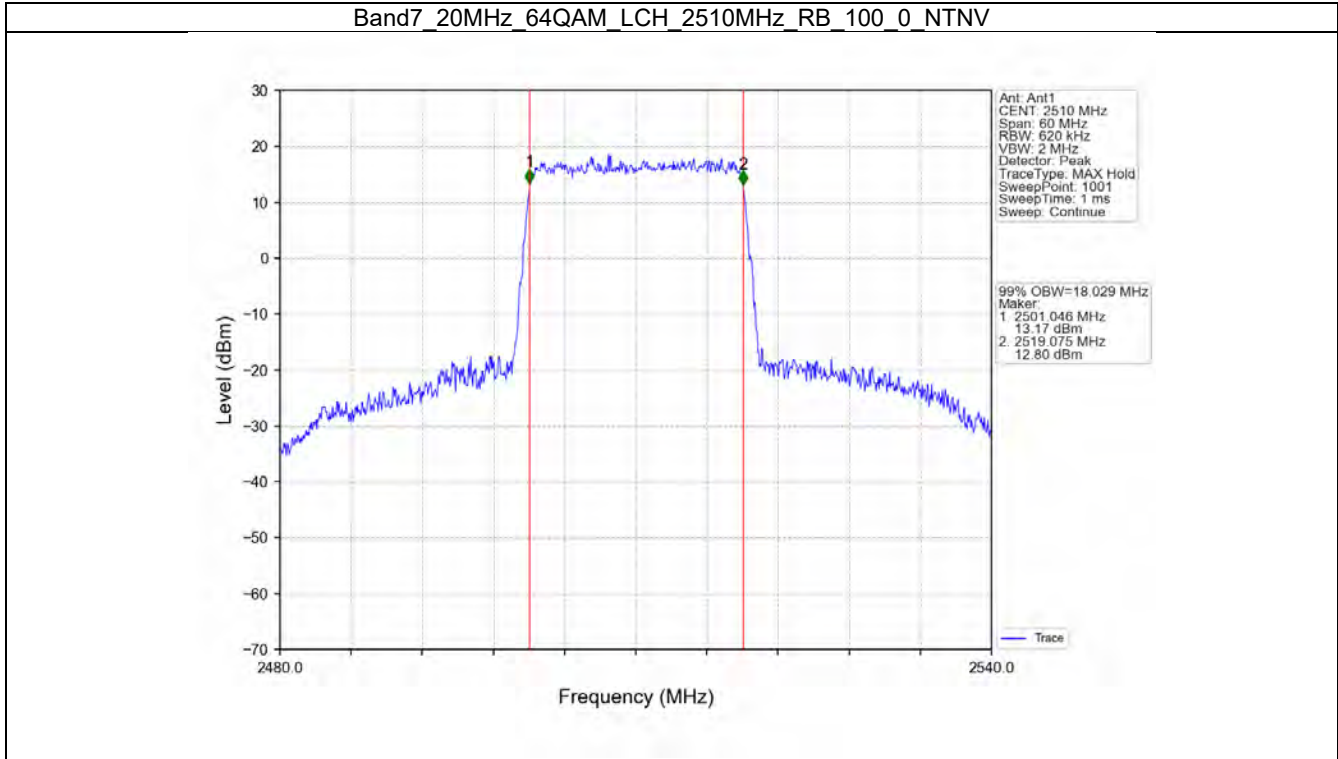
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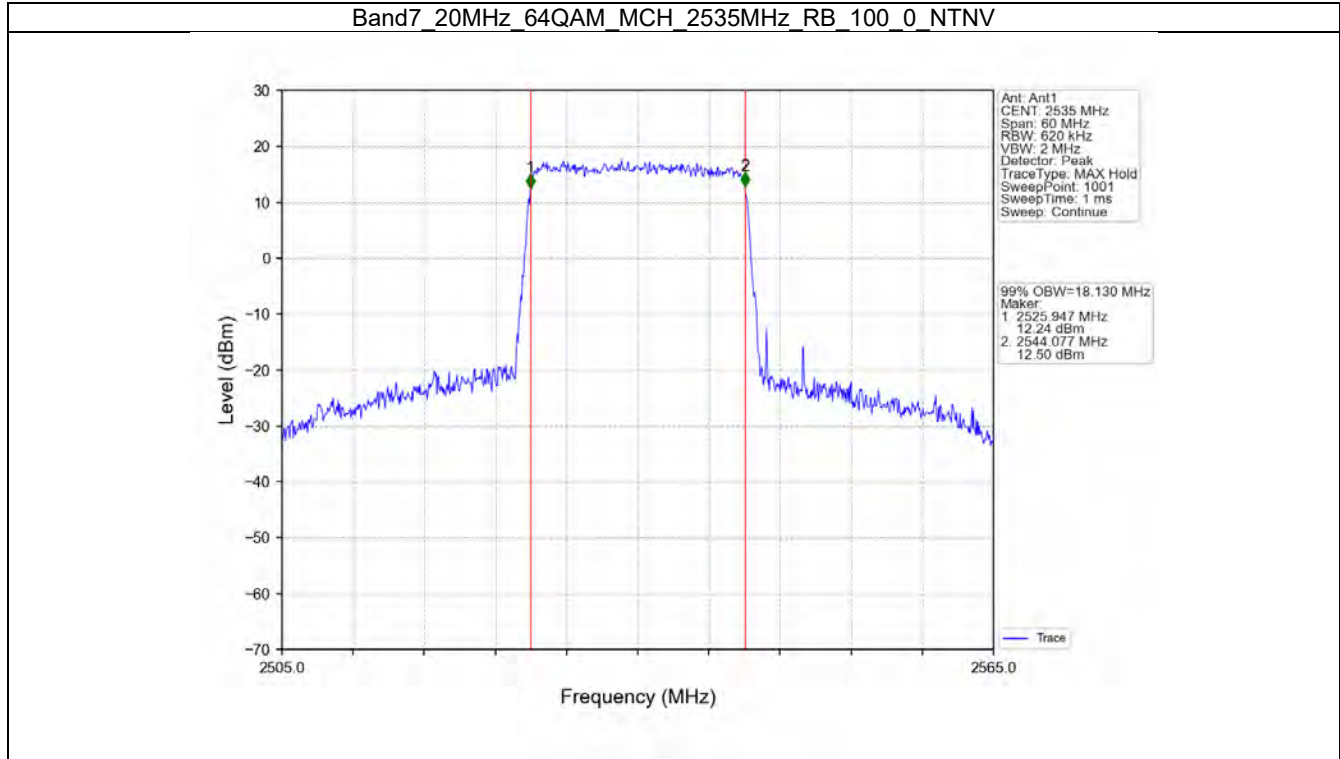
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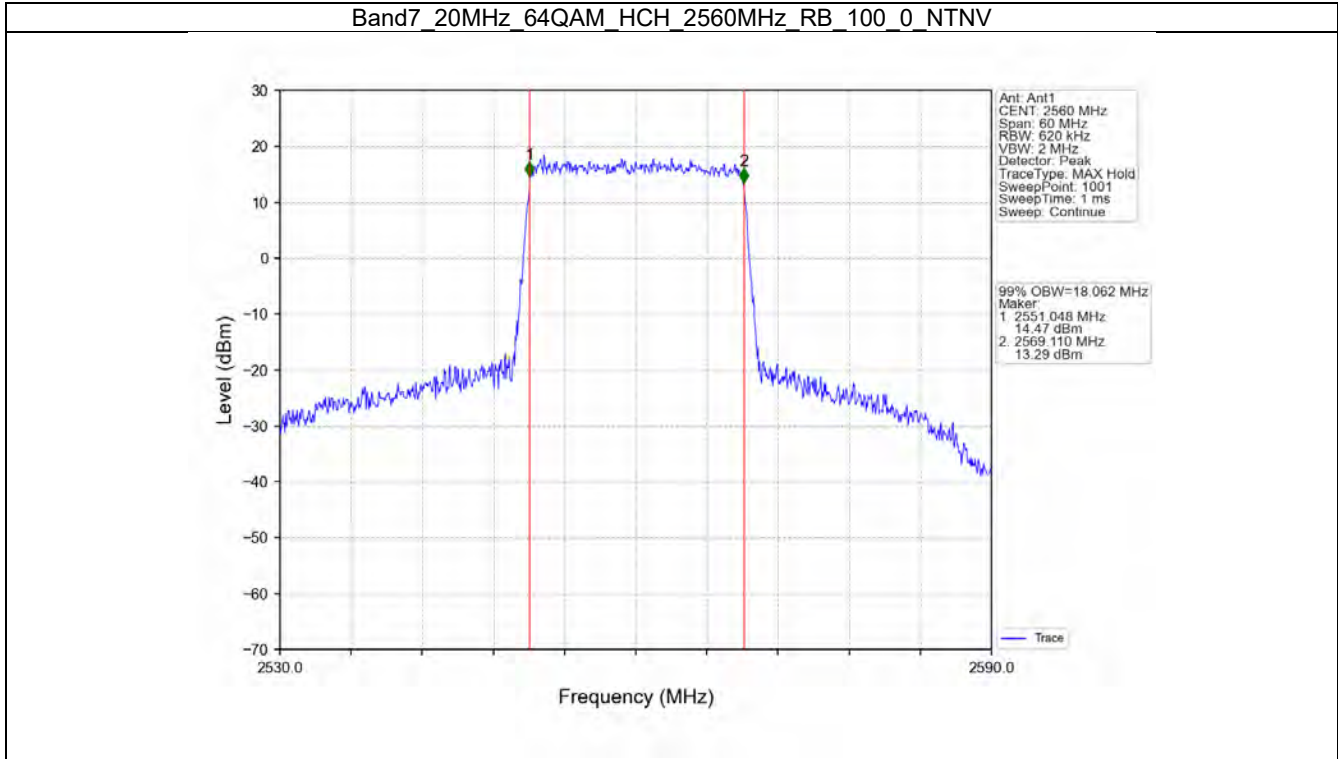
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## 3.2 Band7\_XDB

### 3.2.1 Test Result

Band: 7 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.066	/	Pass
		2535	25	0	5.055	/	Pass
		2567.5	25	0	5.054	/	Pass
	16QAM	2502.5	25	0	5.021	/	Pass
		2535	25	0	5.063	/	Pass
		2567.5	25	0	5.081	/	Pass
	64QAM	2502.5	25	0	5.067	/	Pass
		2535	25	0	5.102	/	Pass
		2567.5	25	0	5.037	/	Pass
10	QPSK	2505	50	0	9.970	/	Pass
		2535	50	0	9.966	/	Pass
		2565	50	0	10.184	/	Pass
	16QAM	2505	50	0	9.953	/	Pass
		2535	50	0	9.985	/	Pass
		2565	50	0	9.898	/	Pass
	64QAM	2505	50	0	9.958	/	Pass
		2535	50	0	9.866	/	Pass
		2565	50	0	9.833	/	Pass
15	QPSK	2507.5	75	0	14.917	/	Pass
		2535	75	0	14.848	/	Pass
		2562.5	75	0	14.950	/	Pass
	16QAM	2507.5	75	0	14.973	/	Pass
		2535	75	0	14.958	/	Pass
		2562.5	75	0	14.874	/	Pass
	64QAM	2507.5	75	0	14.954	/	Pass
		2535	75	0	14.864	/	Pass
		2562.5	75	0	14.923	/	Pass
20	QPSK	2510	100	0	19.768	/	Pass
		2535	100	0	19.776	/	Pass
		2560	100	0	19.763	/	Pass
	16QAM	2510	100	0	19.680	/	Pass
		2535	100	0	19.863	/	Pass
		2560	100	0	19.643	/	Pass
	64QAM	2510	100	0	19.793	/	Pass
		2535	100	0	19.903	/	Pass
		2560	100	0	19.742	/	Pass



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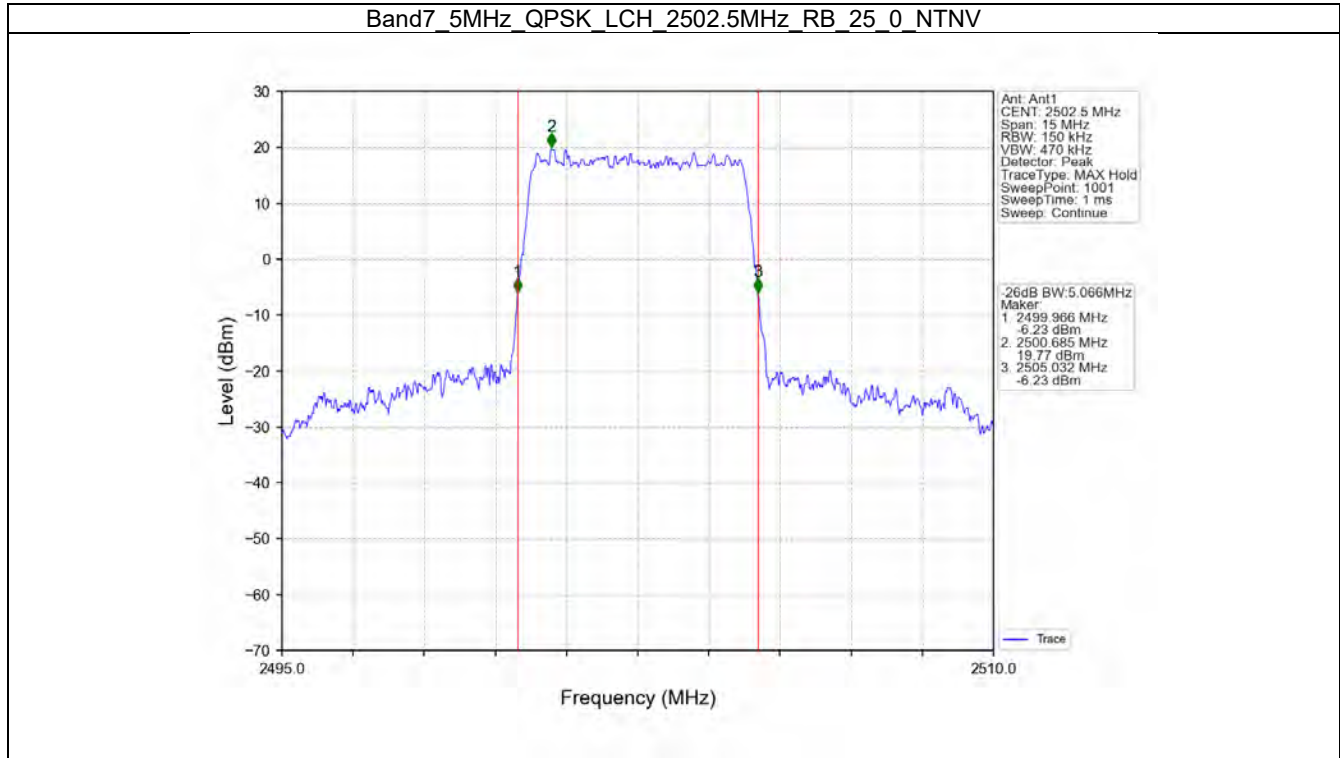
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3.2.2 Test Graph



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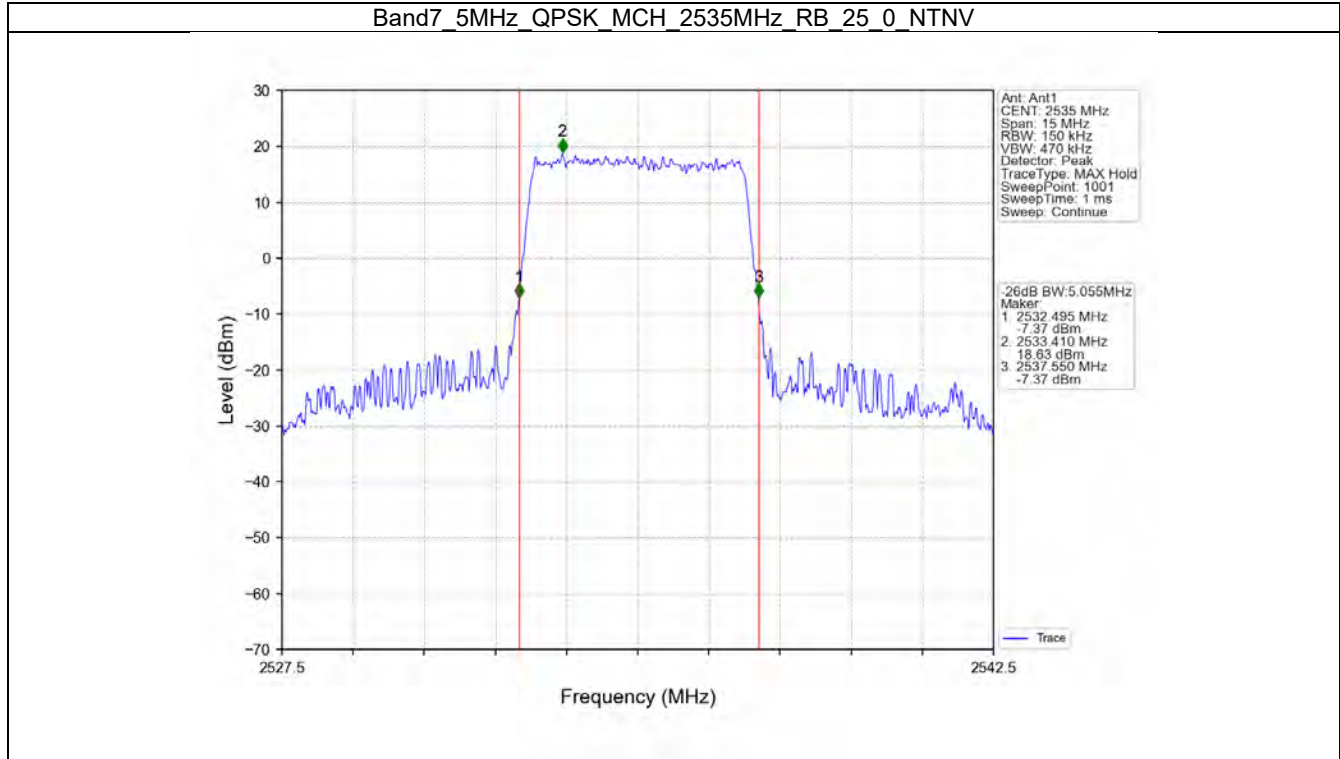
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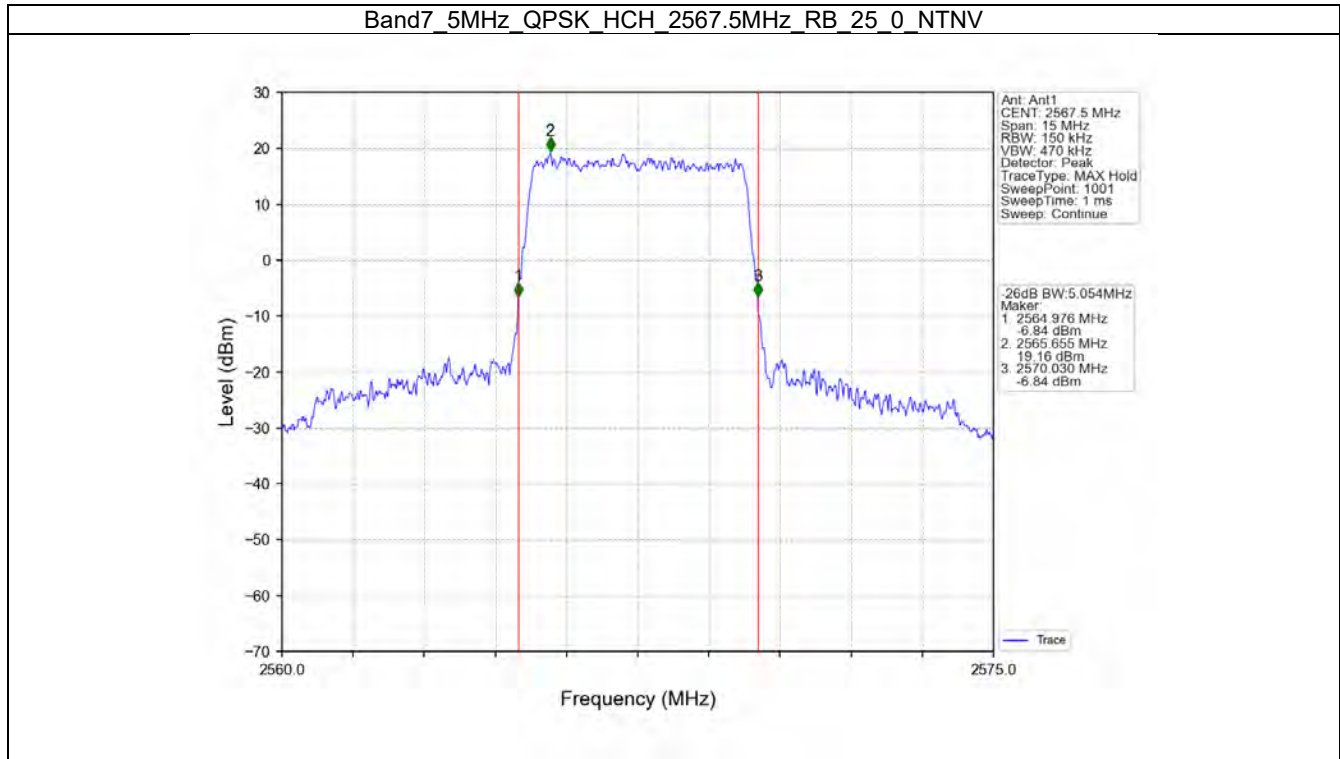


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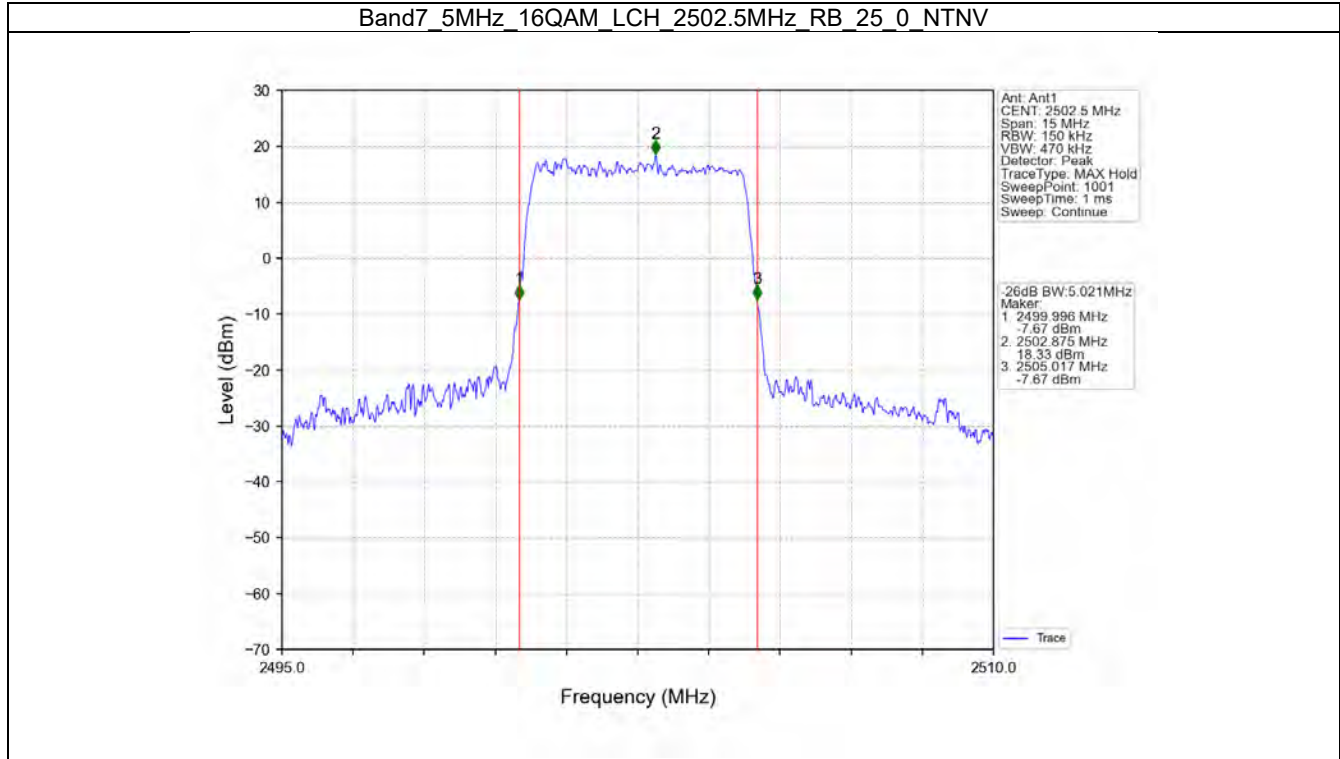
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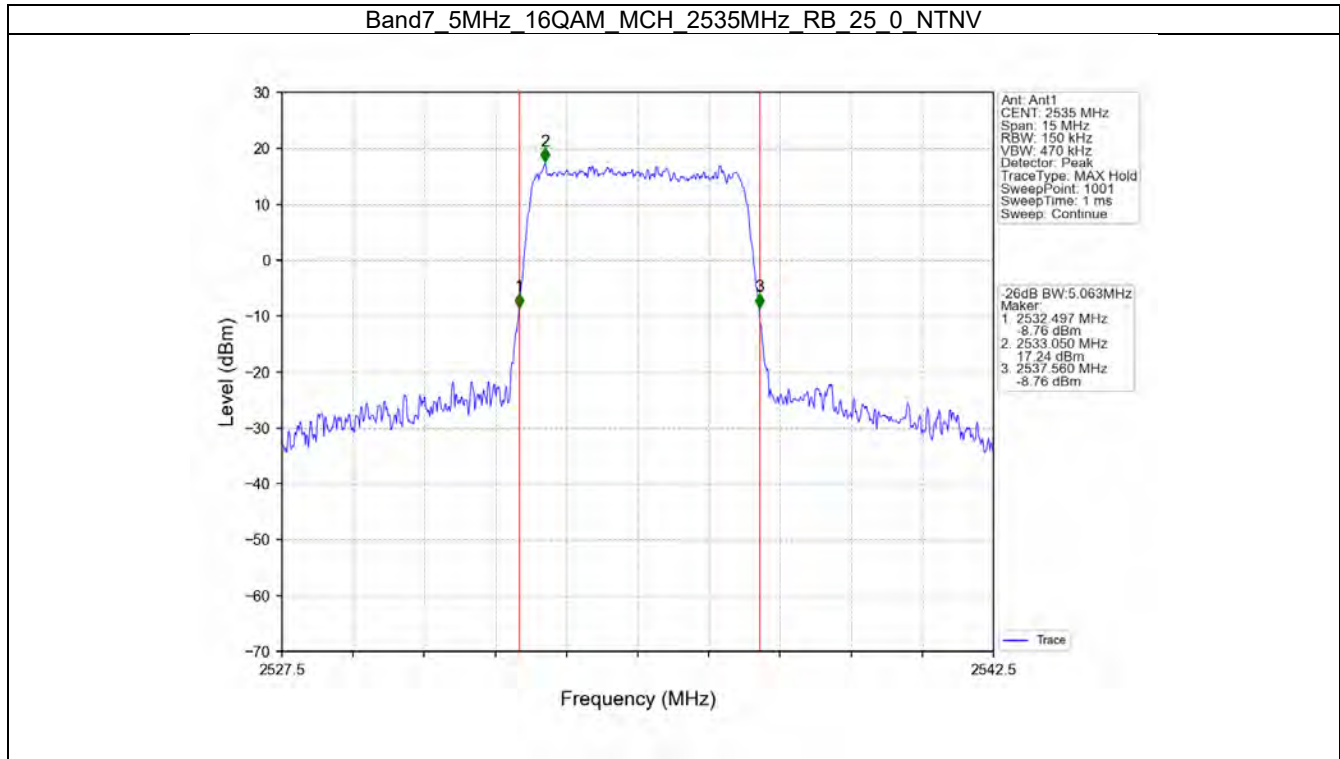


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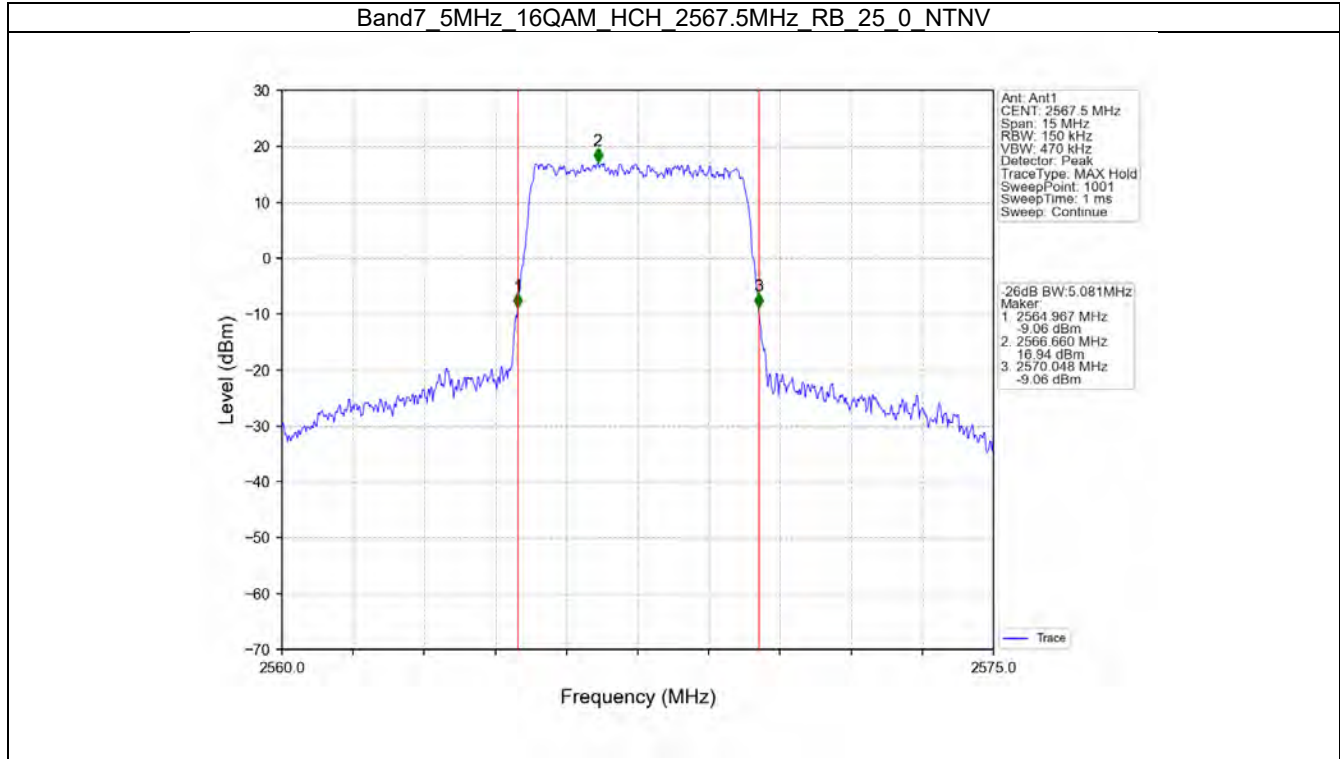
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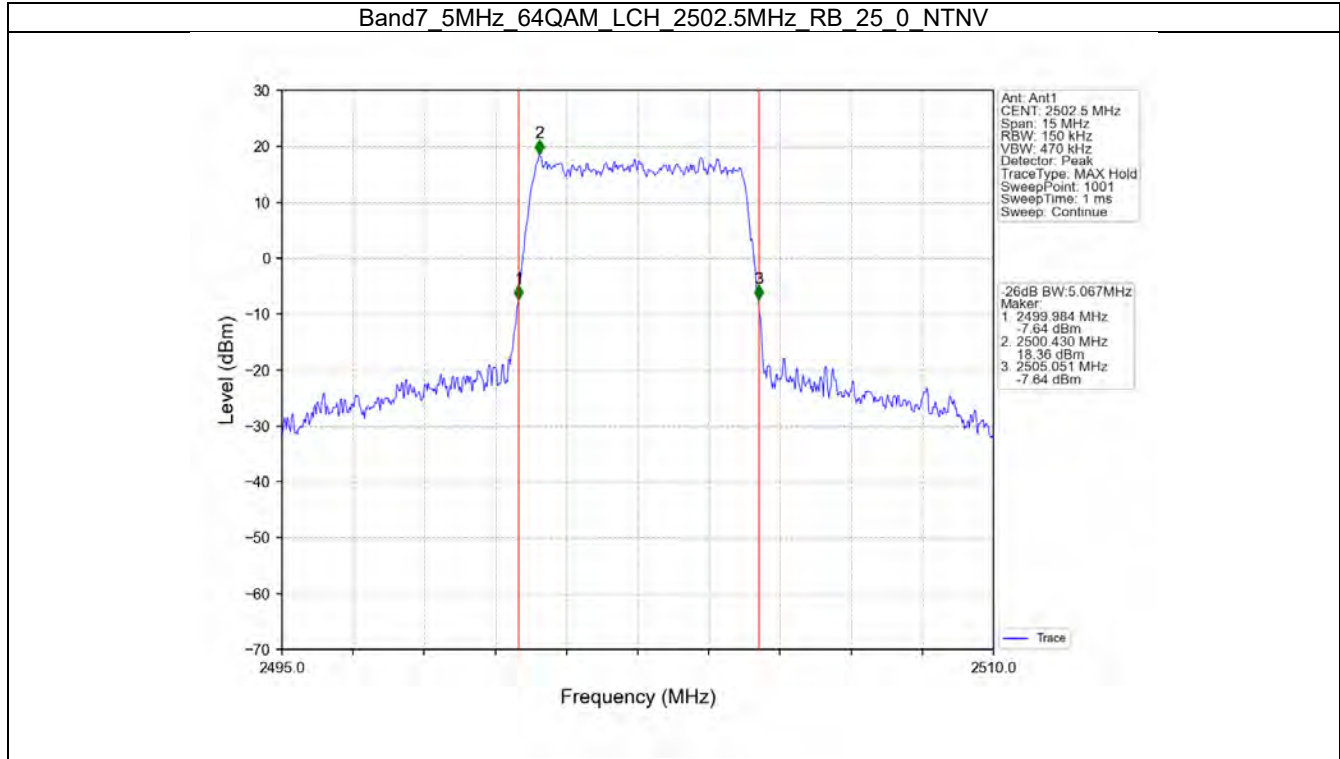
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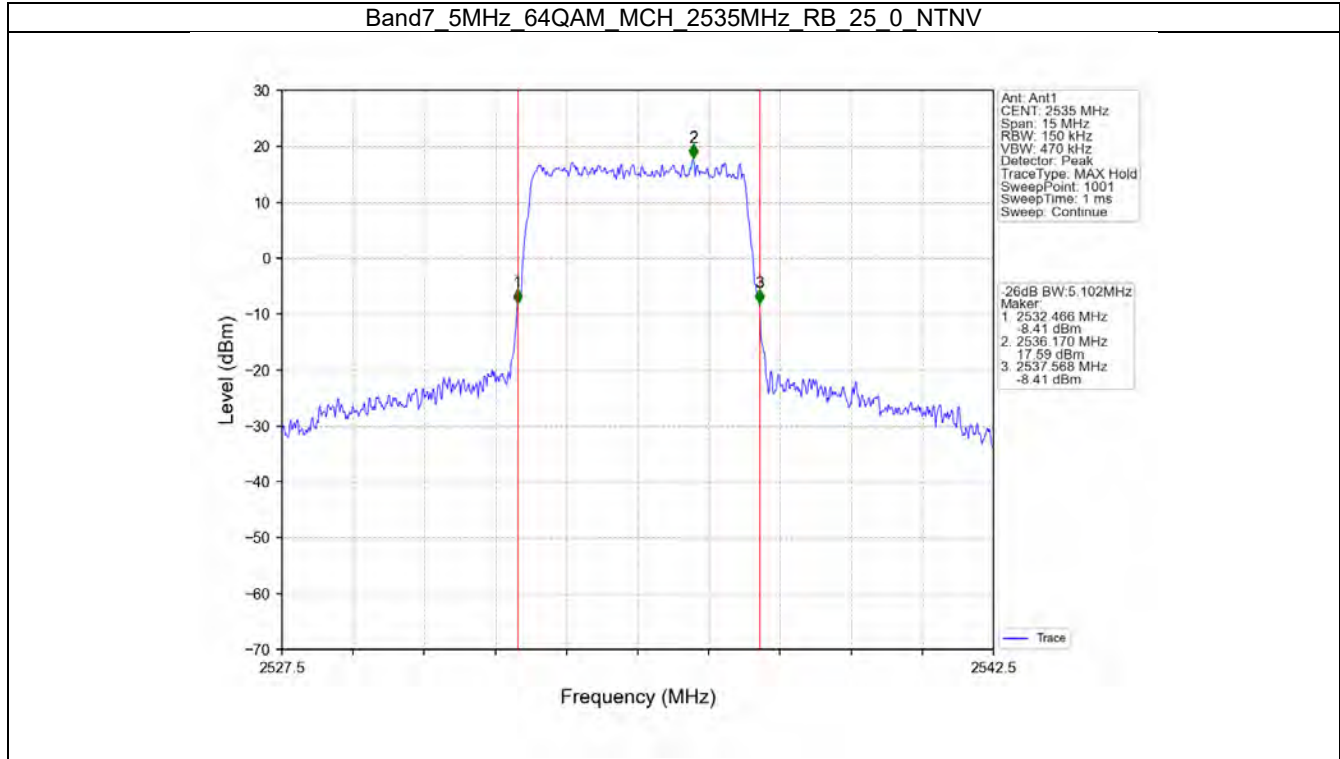
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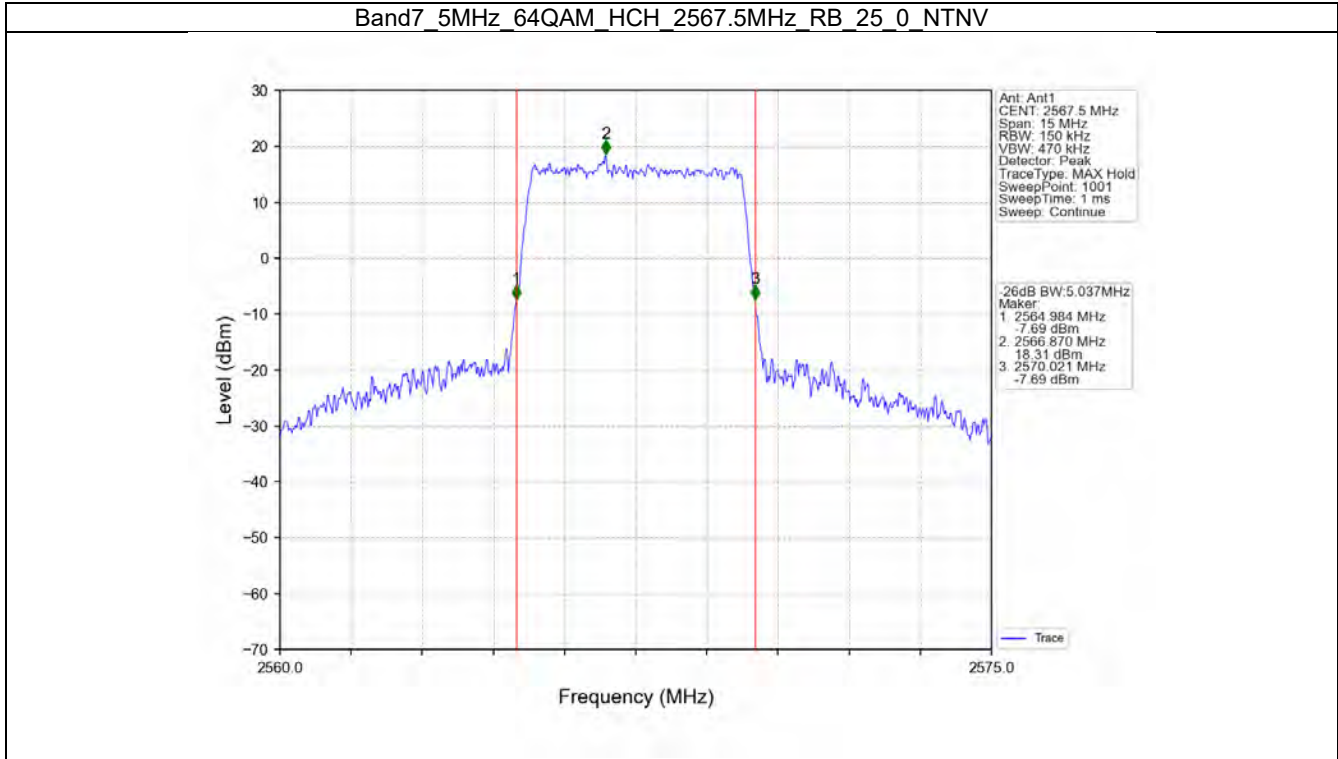
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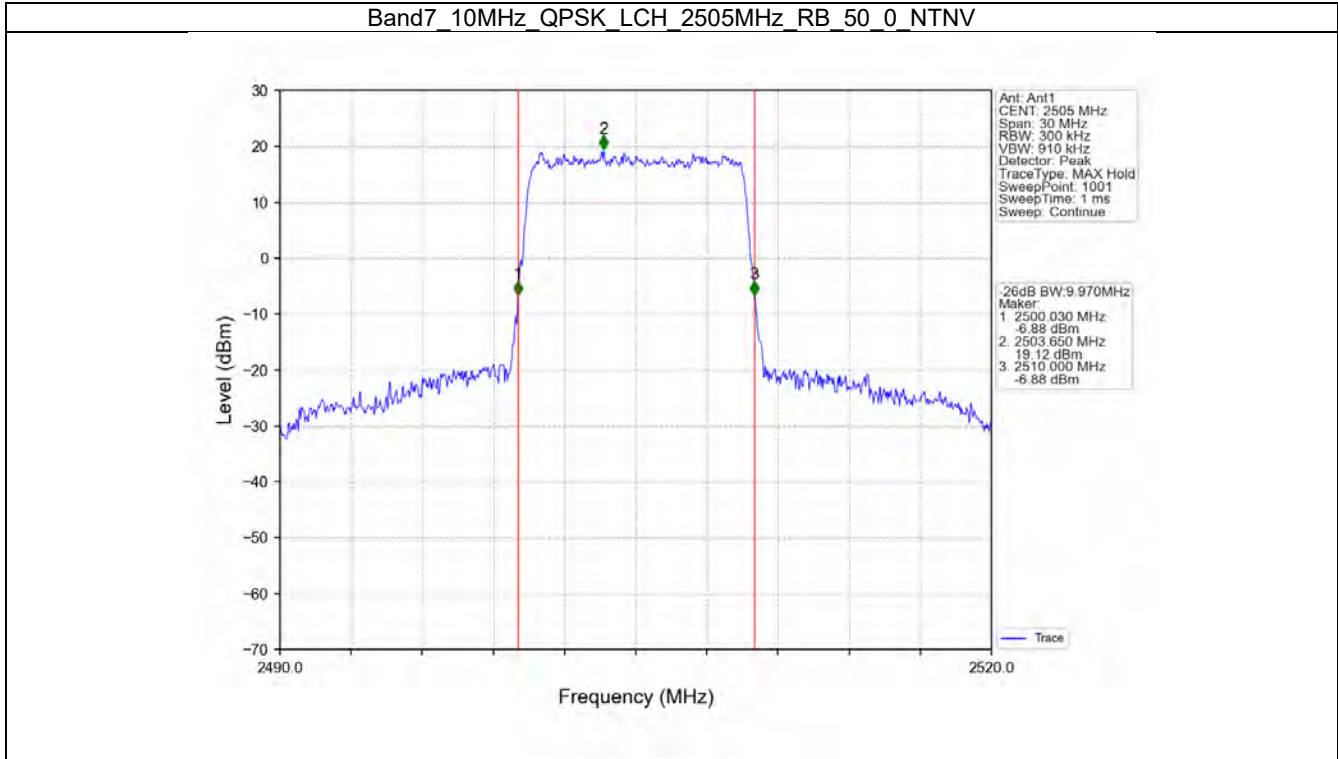
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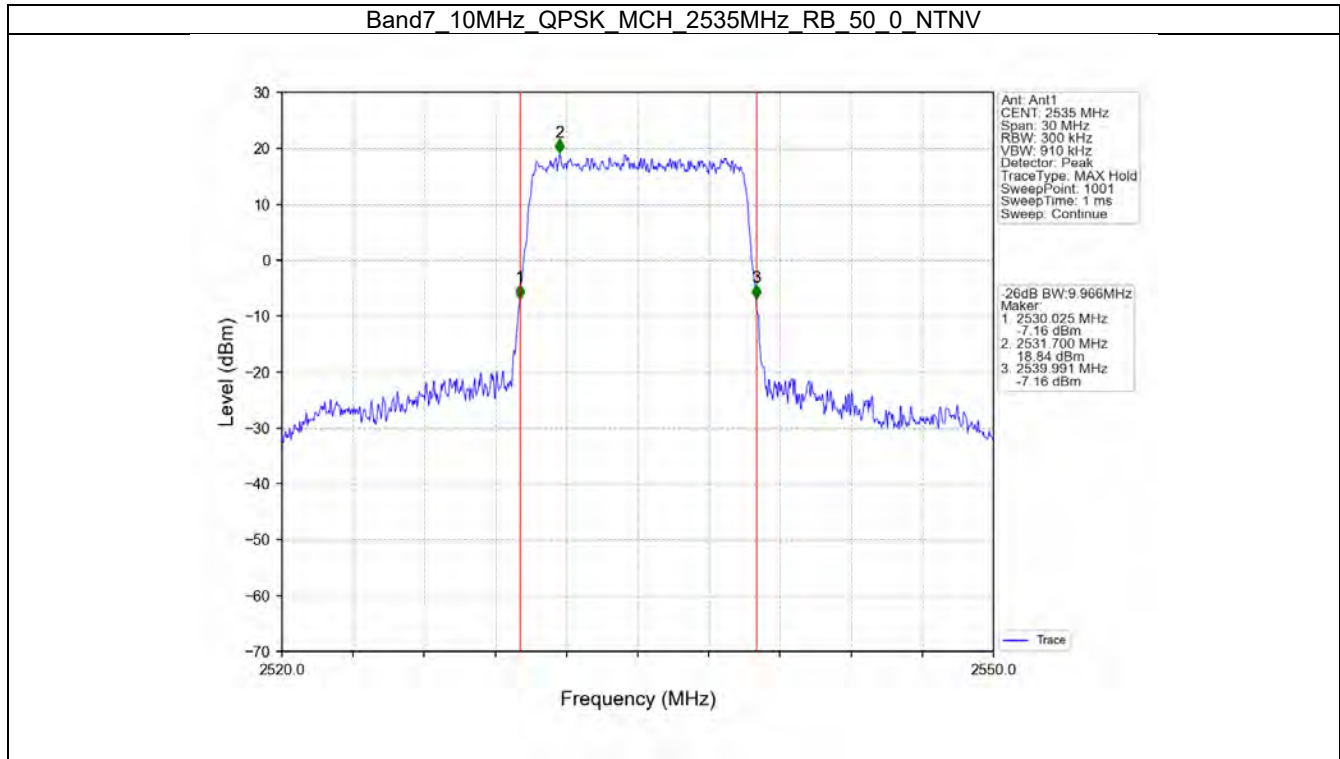


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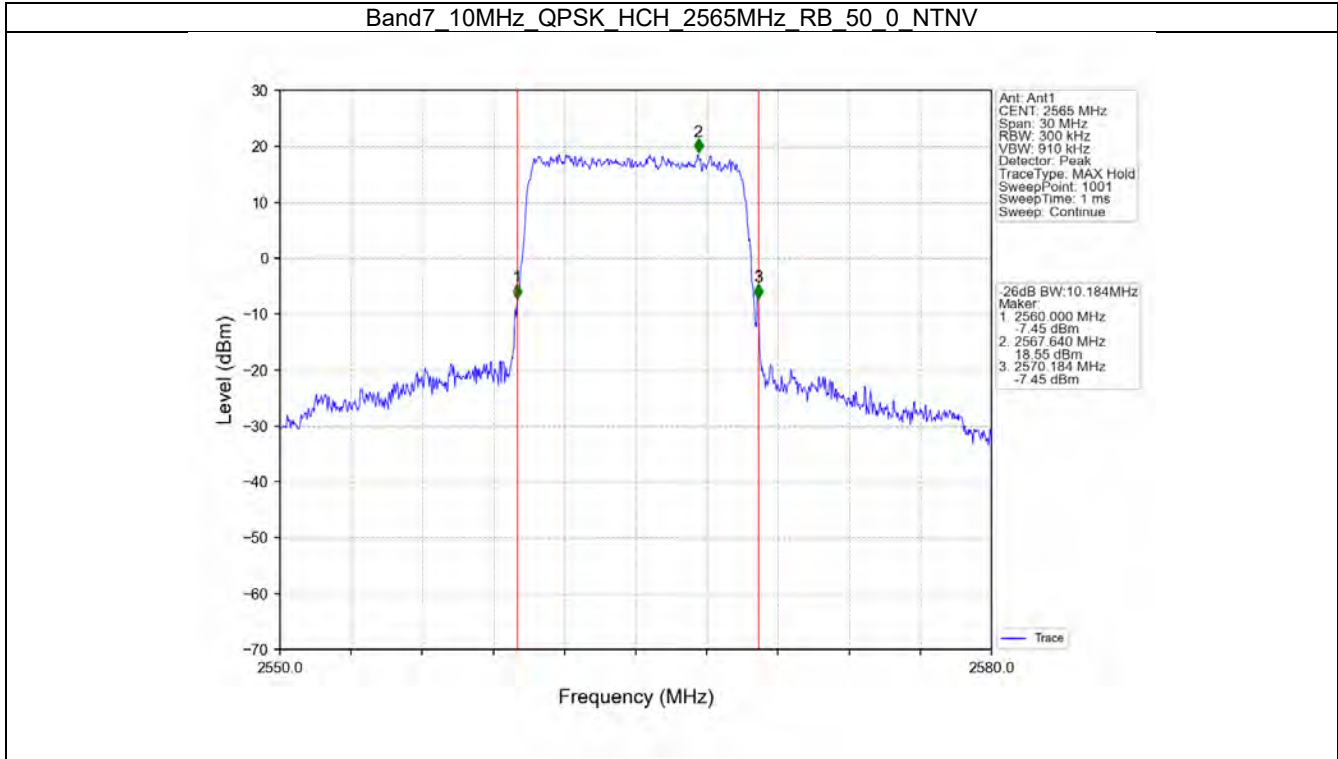
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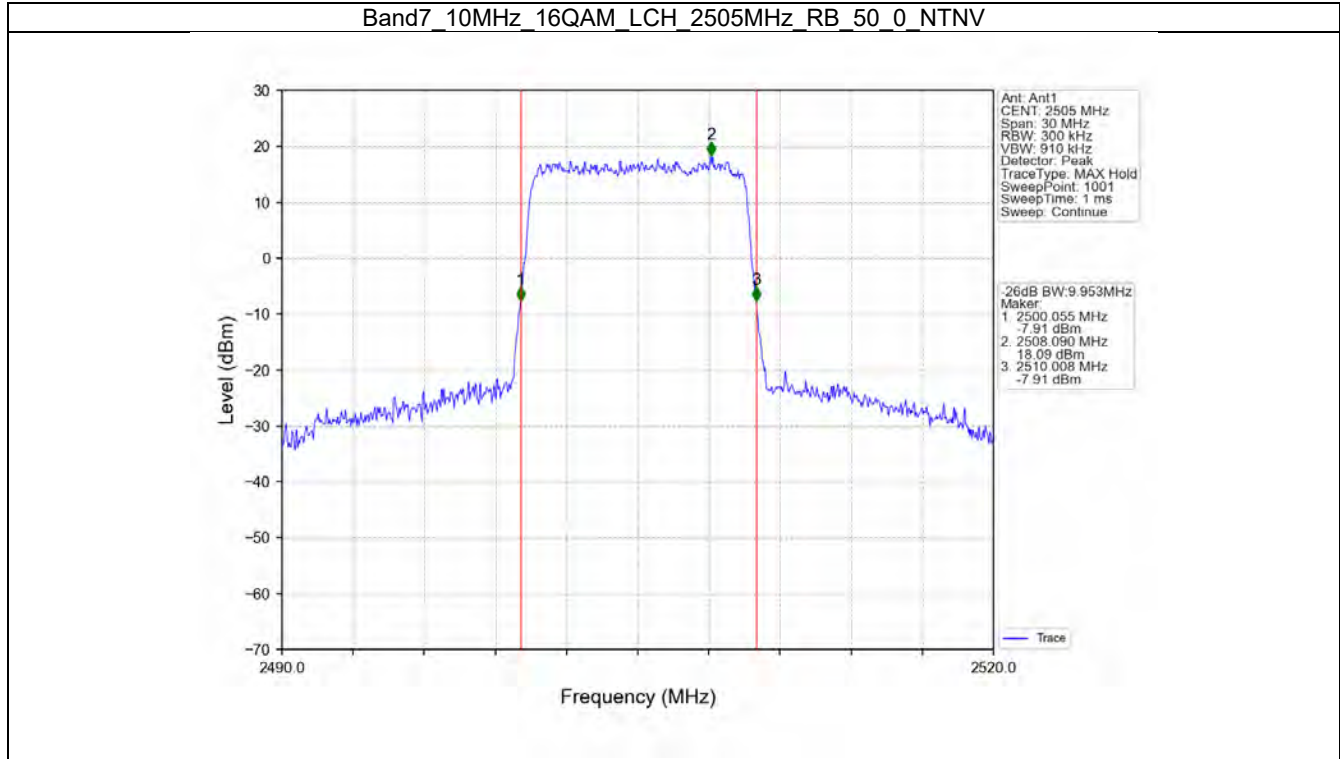
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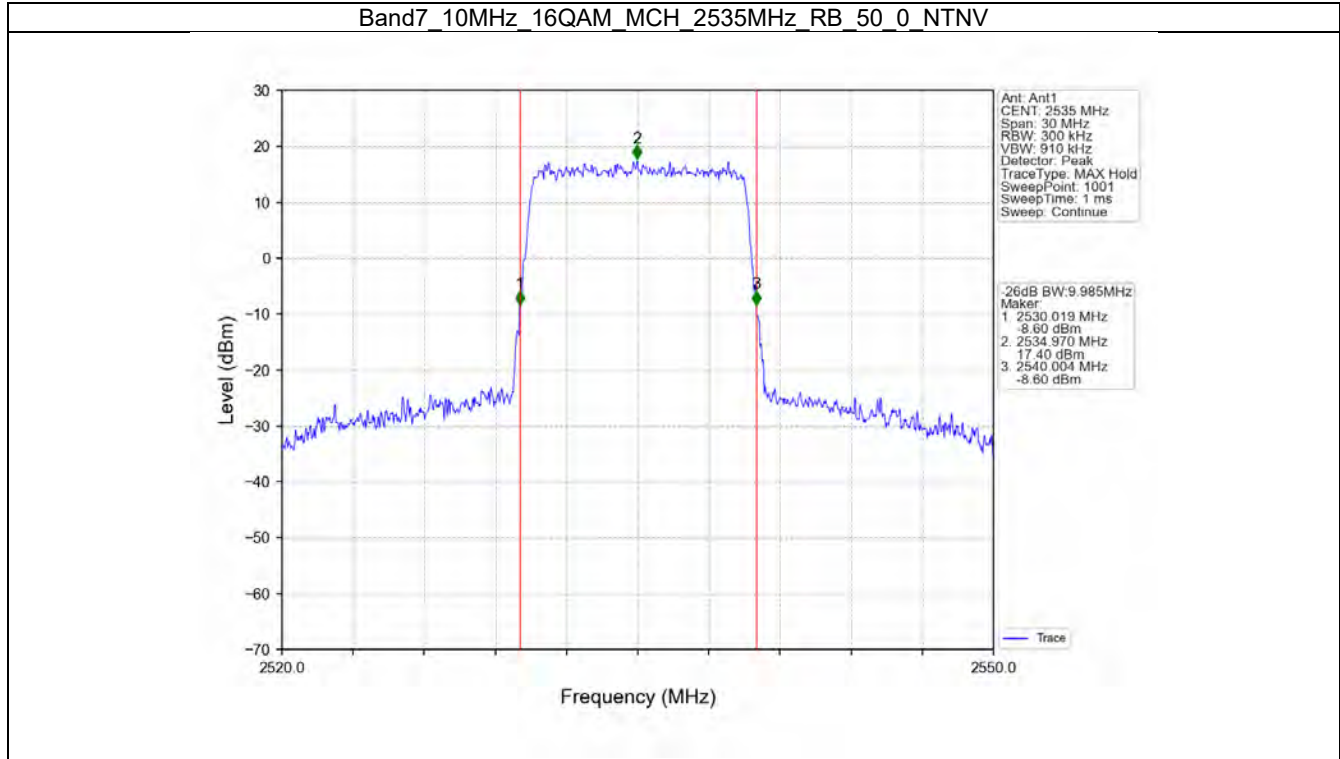
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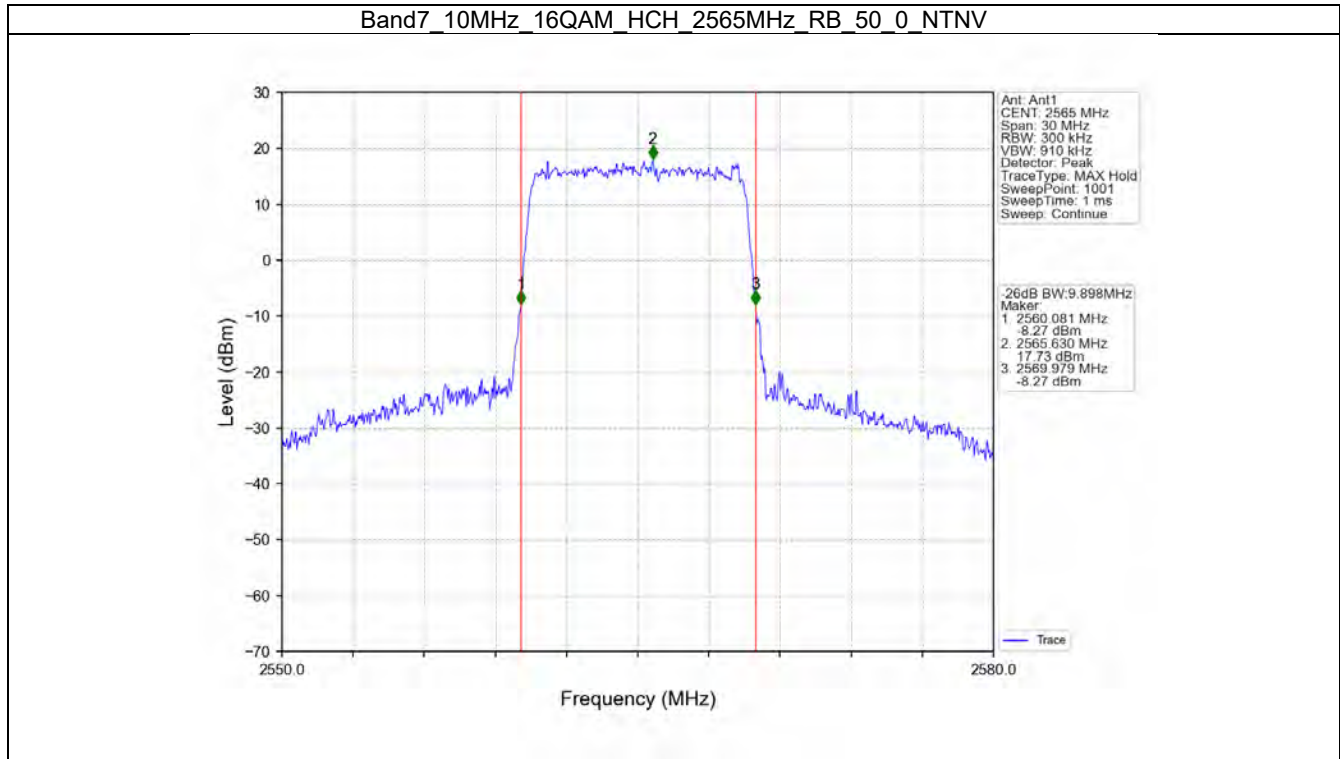


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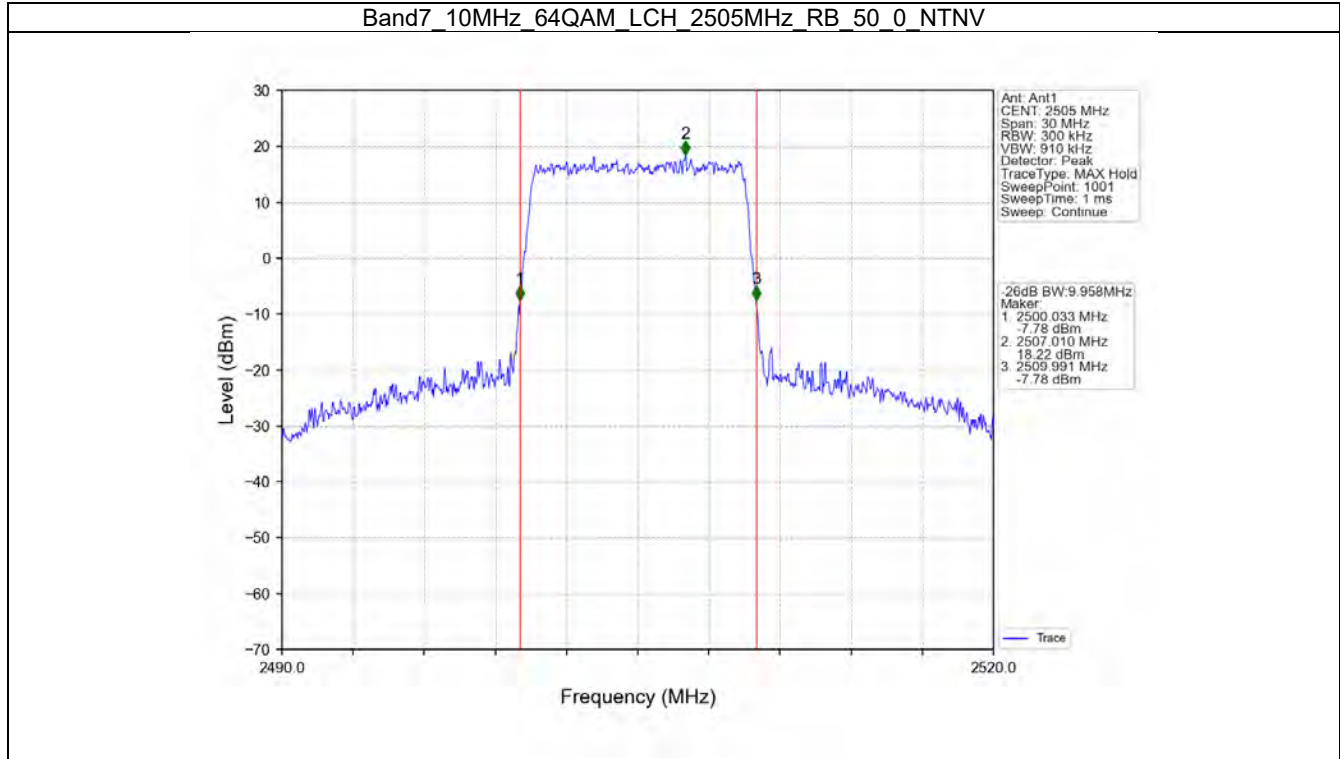
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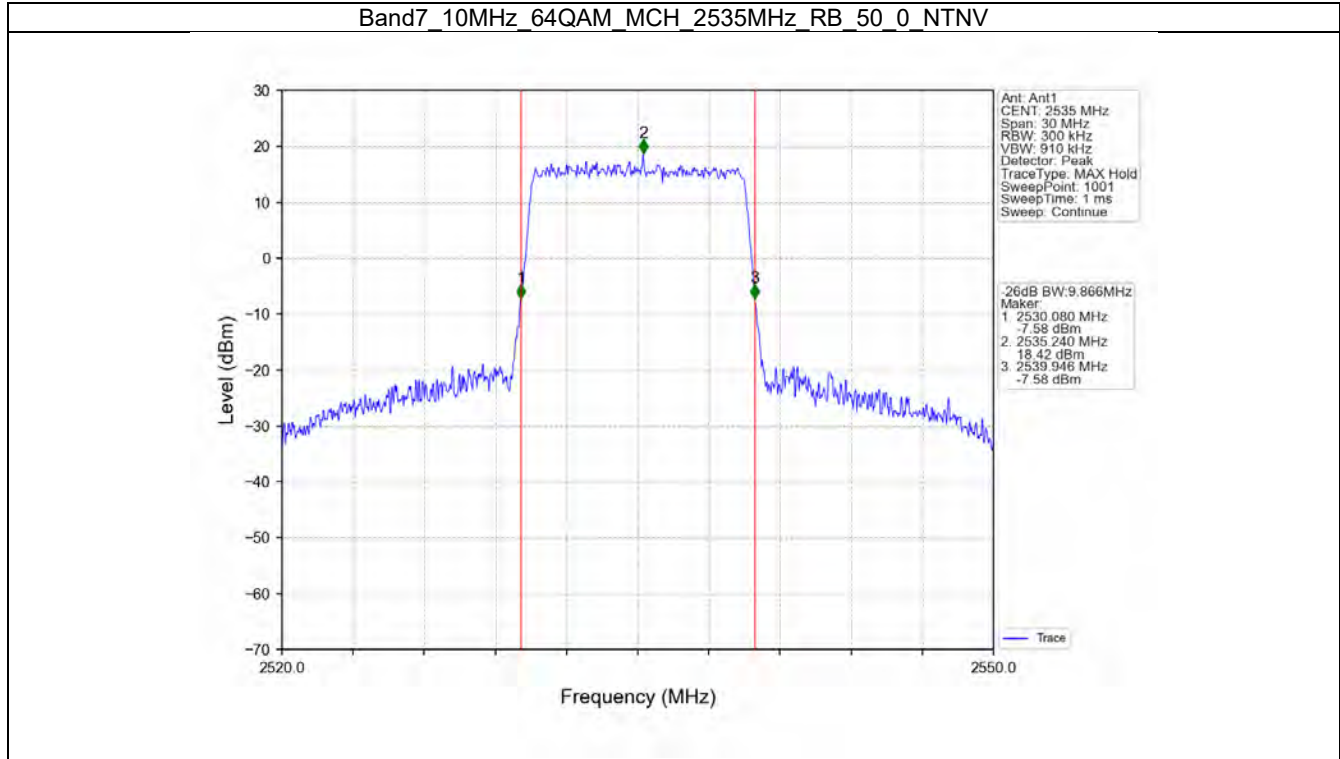
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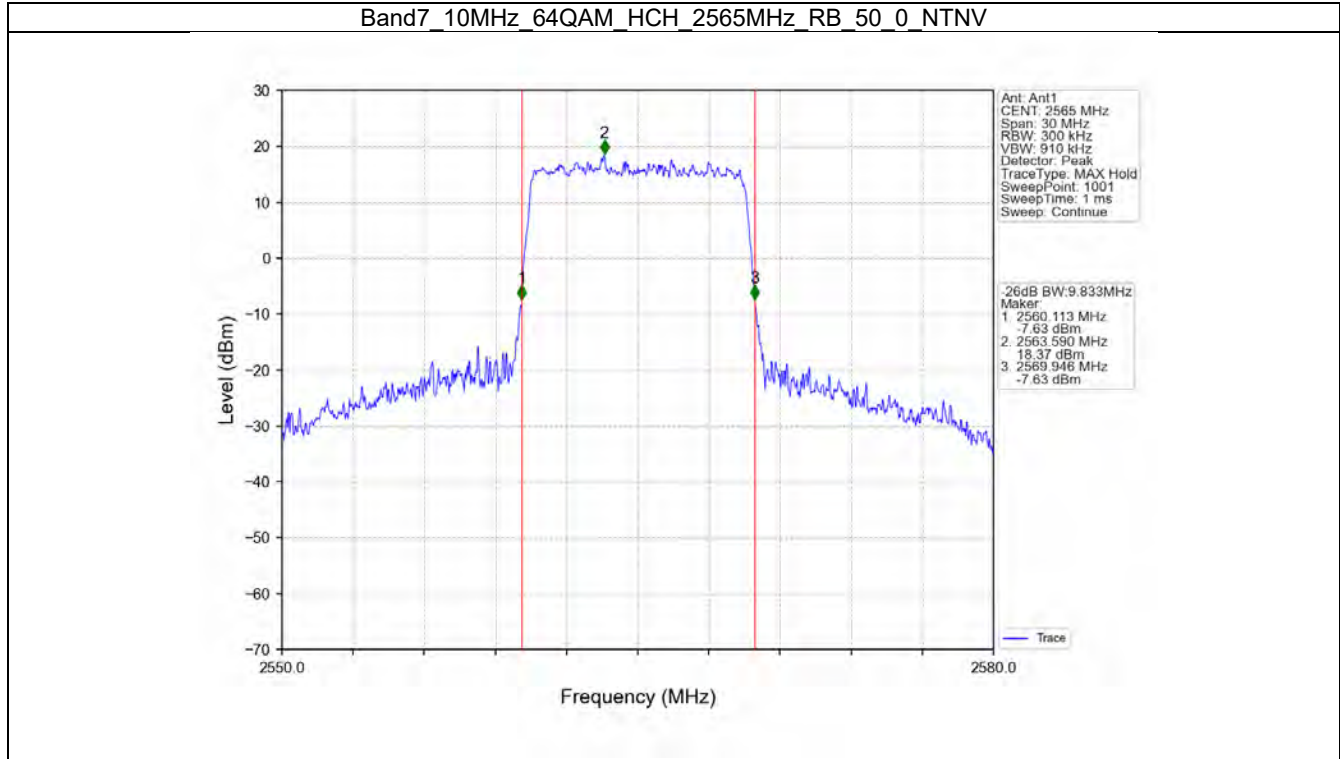
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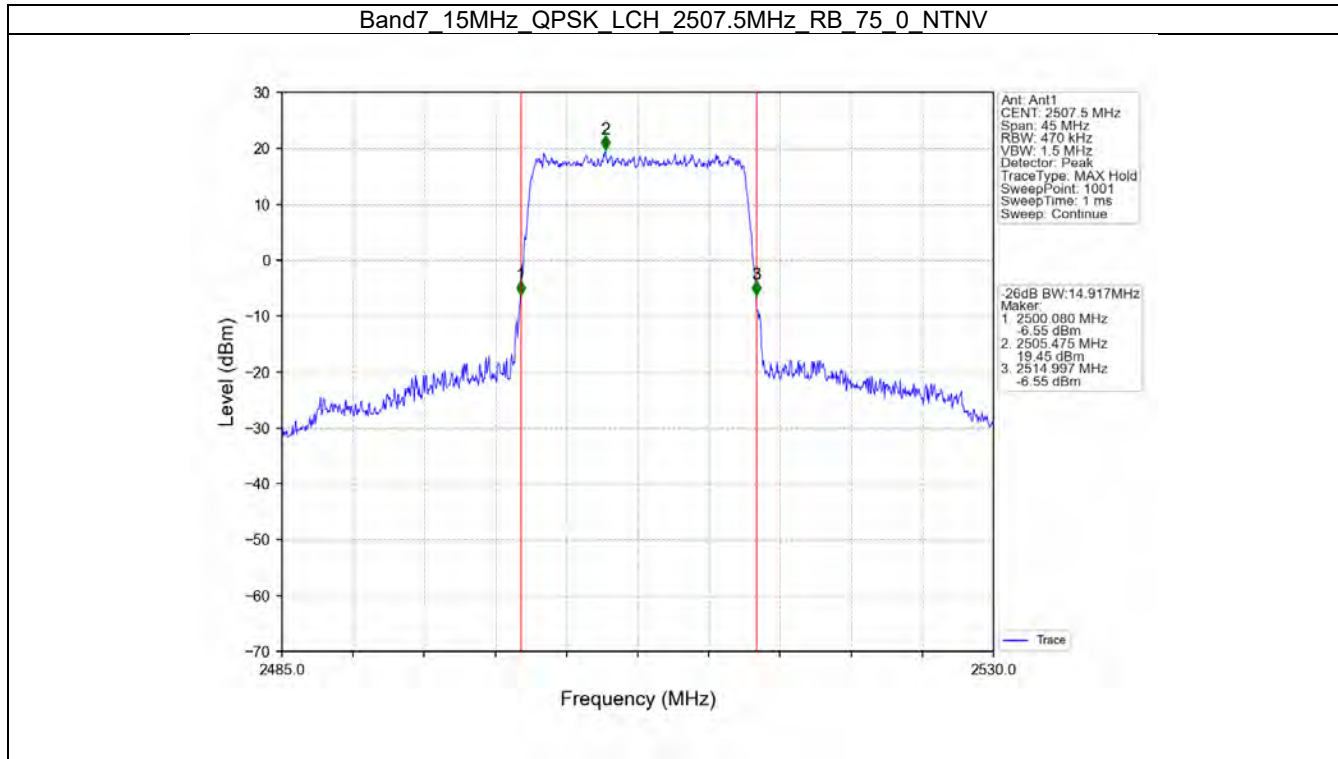


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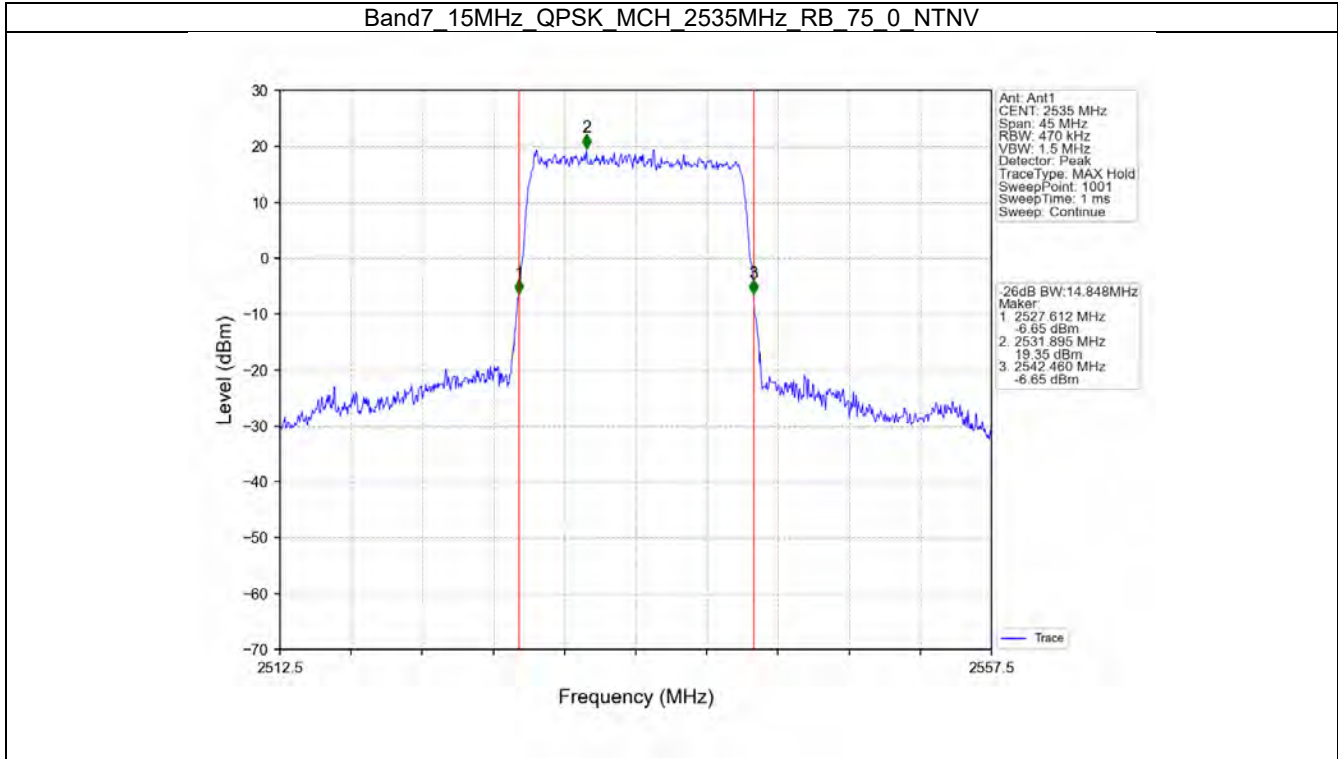
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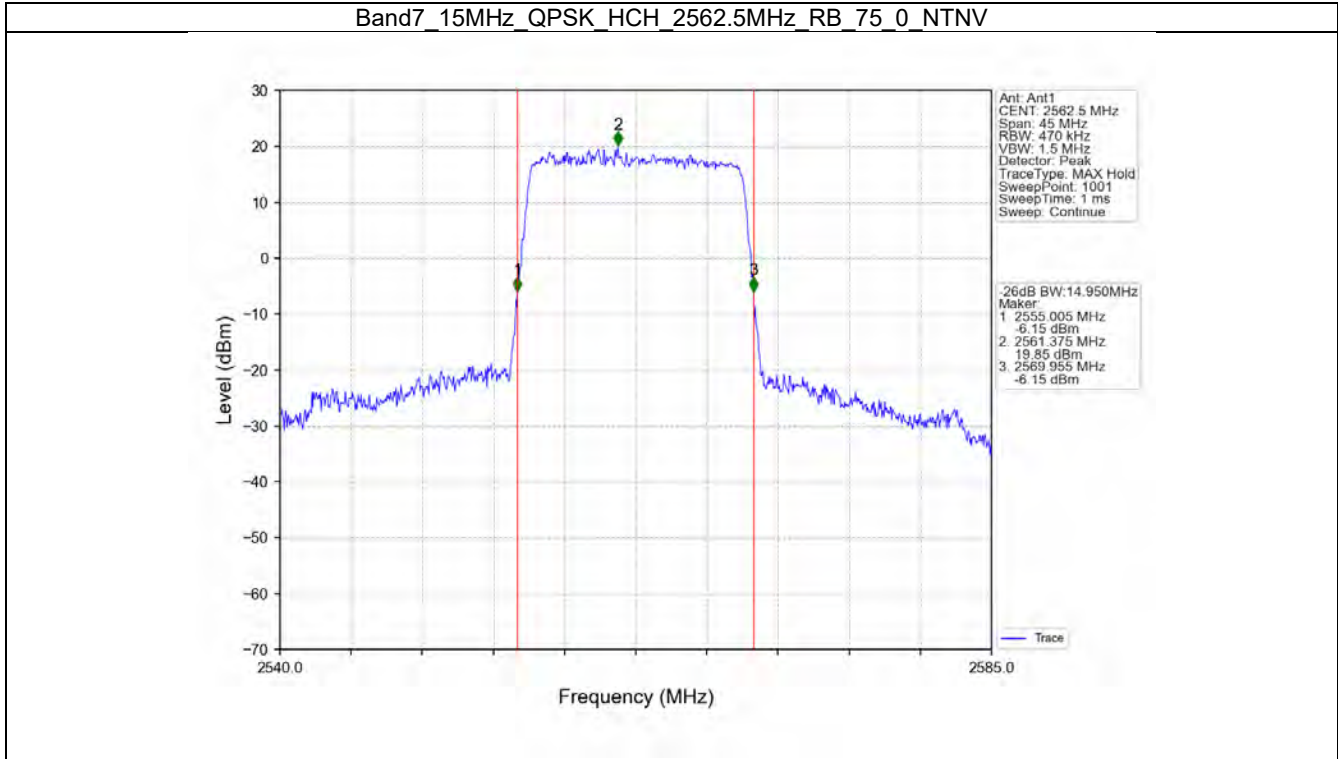
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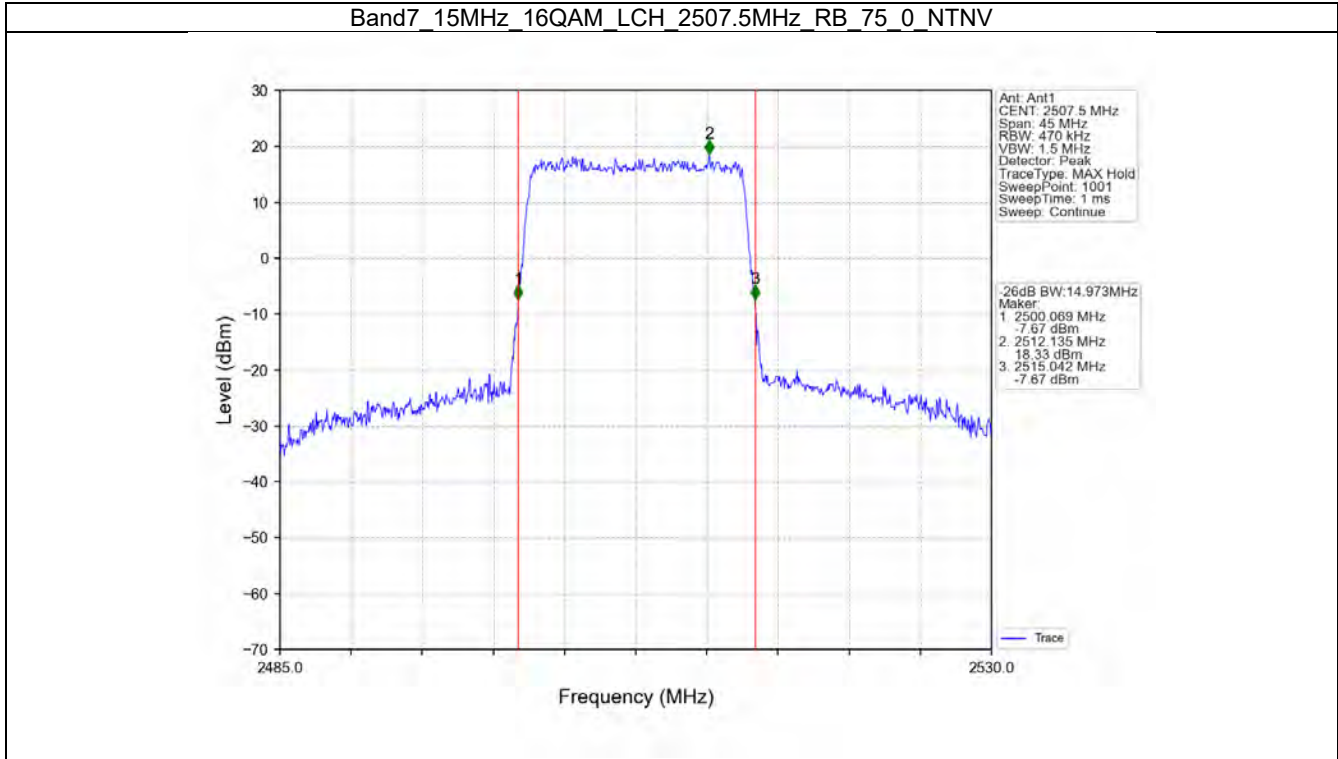
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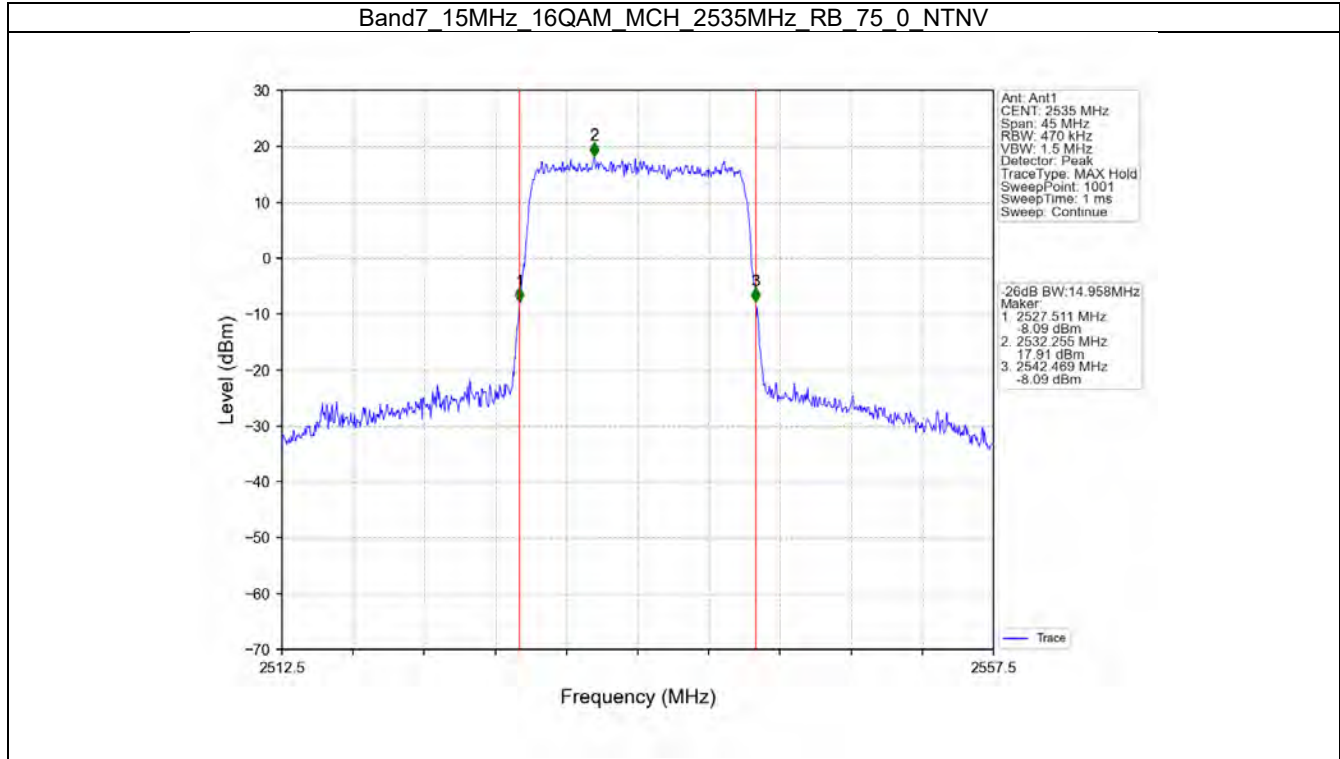
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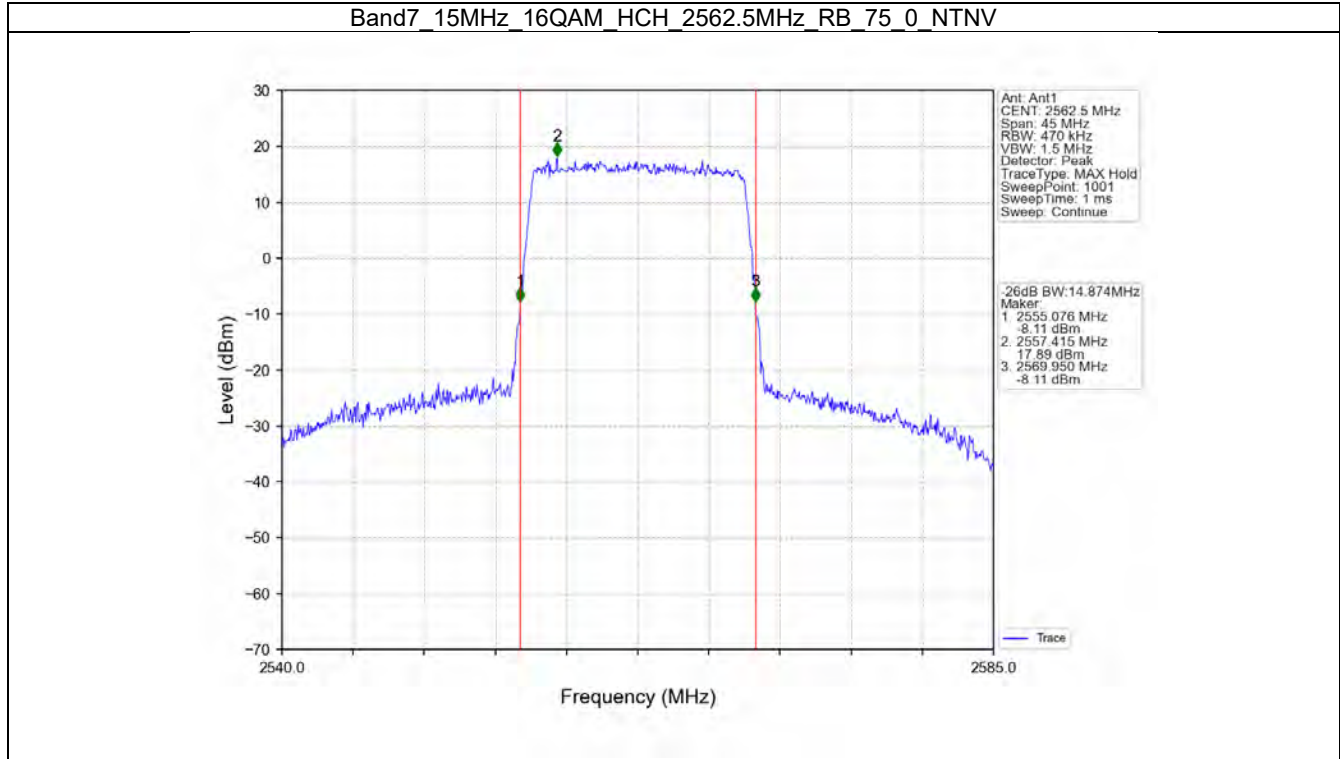
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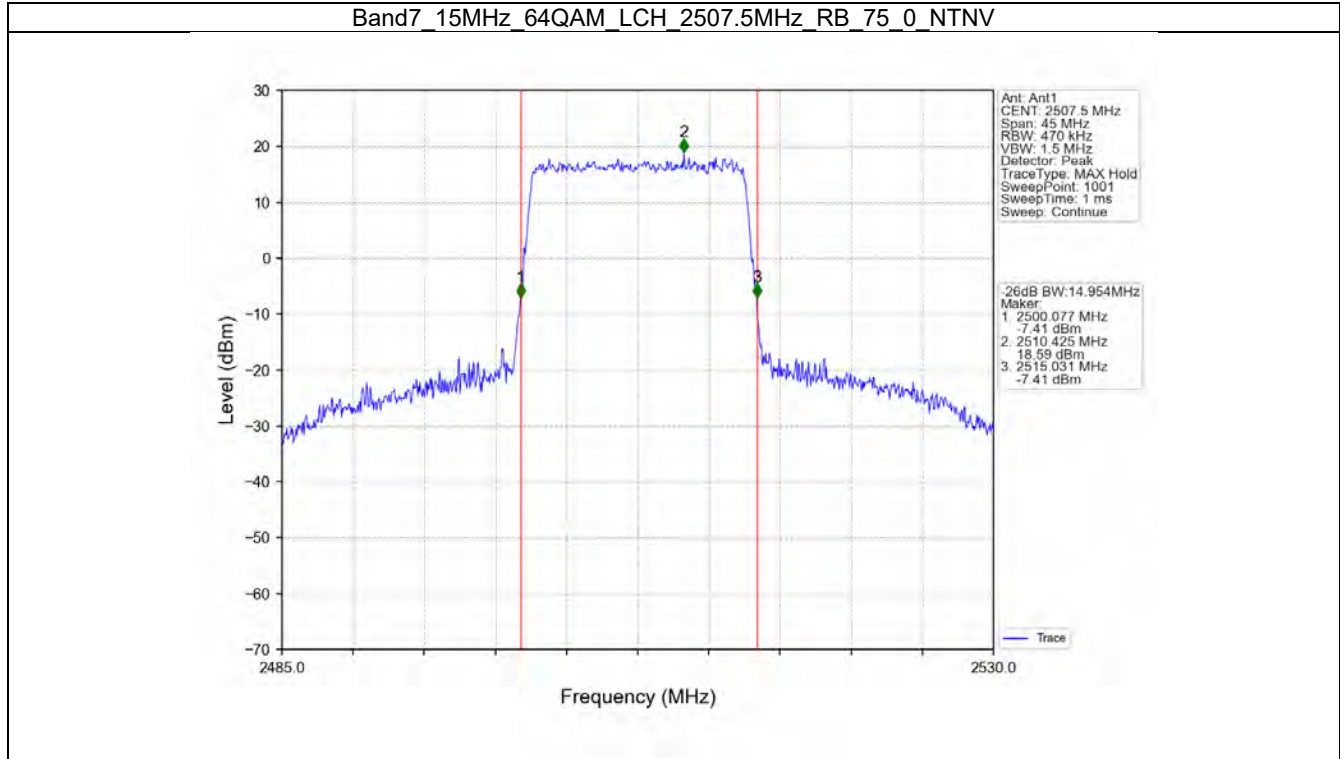
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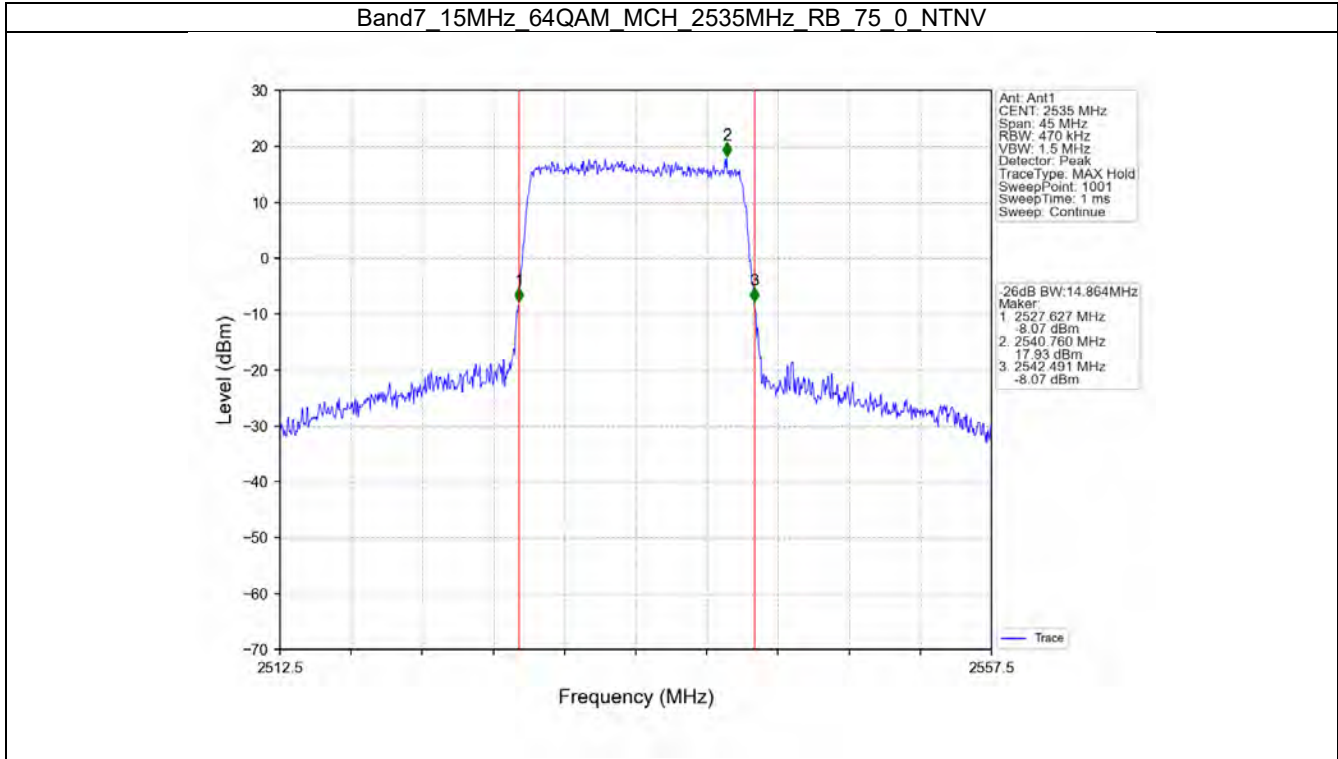
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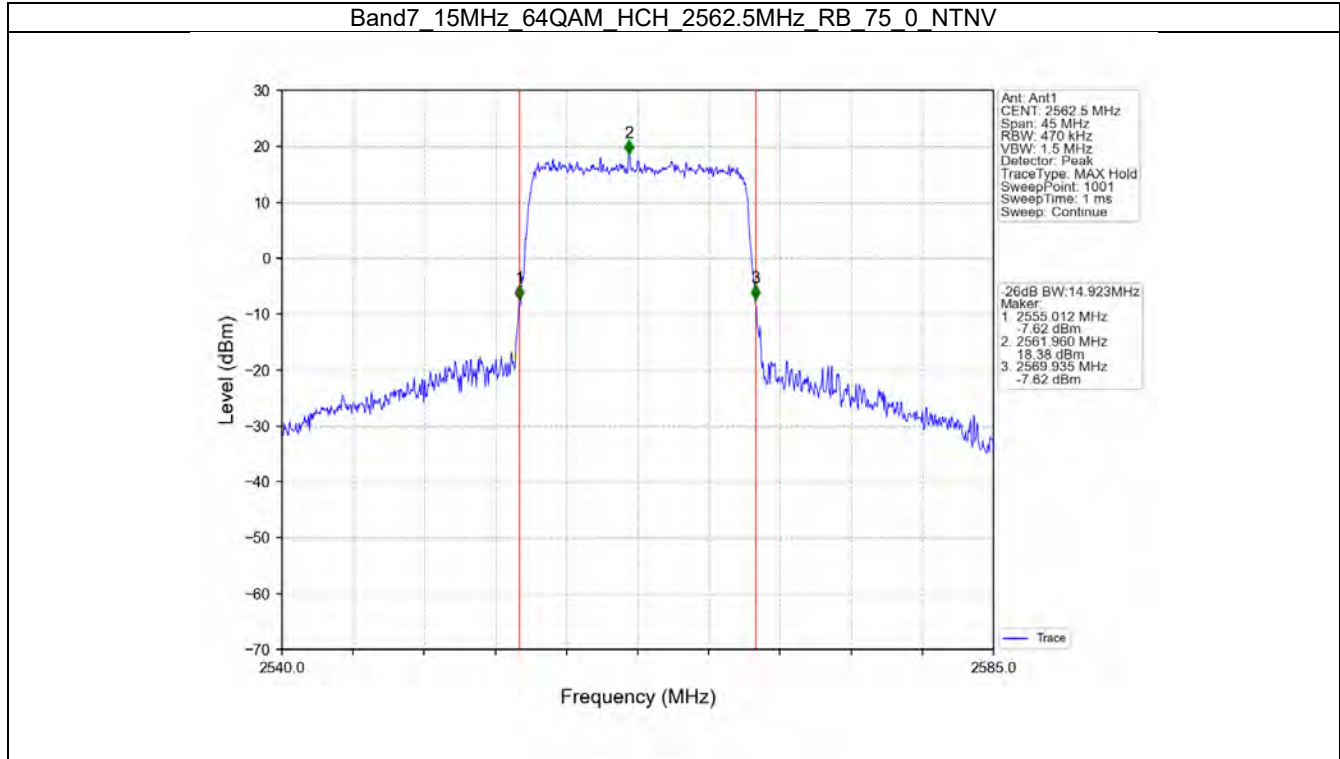
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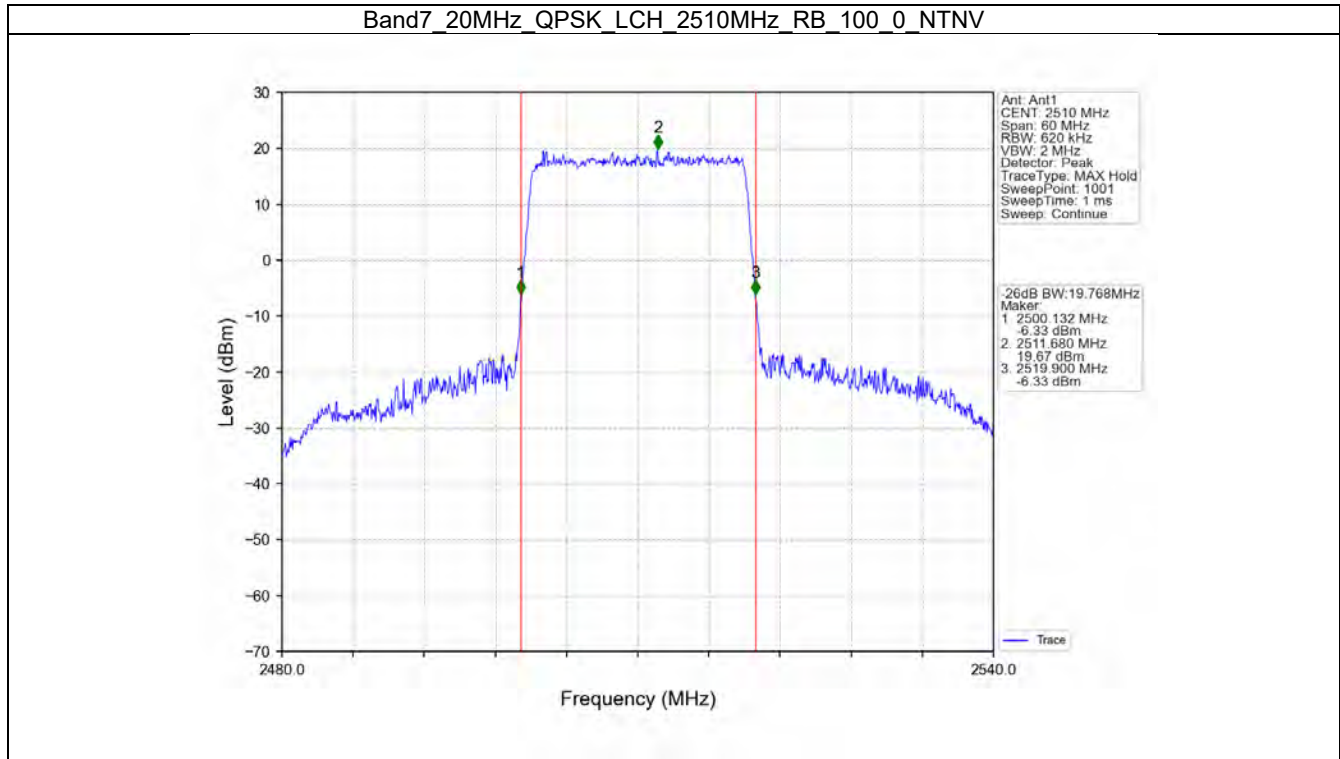
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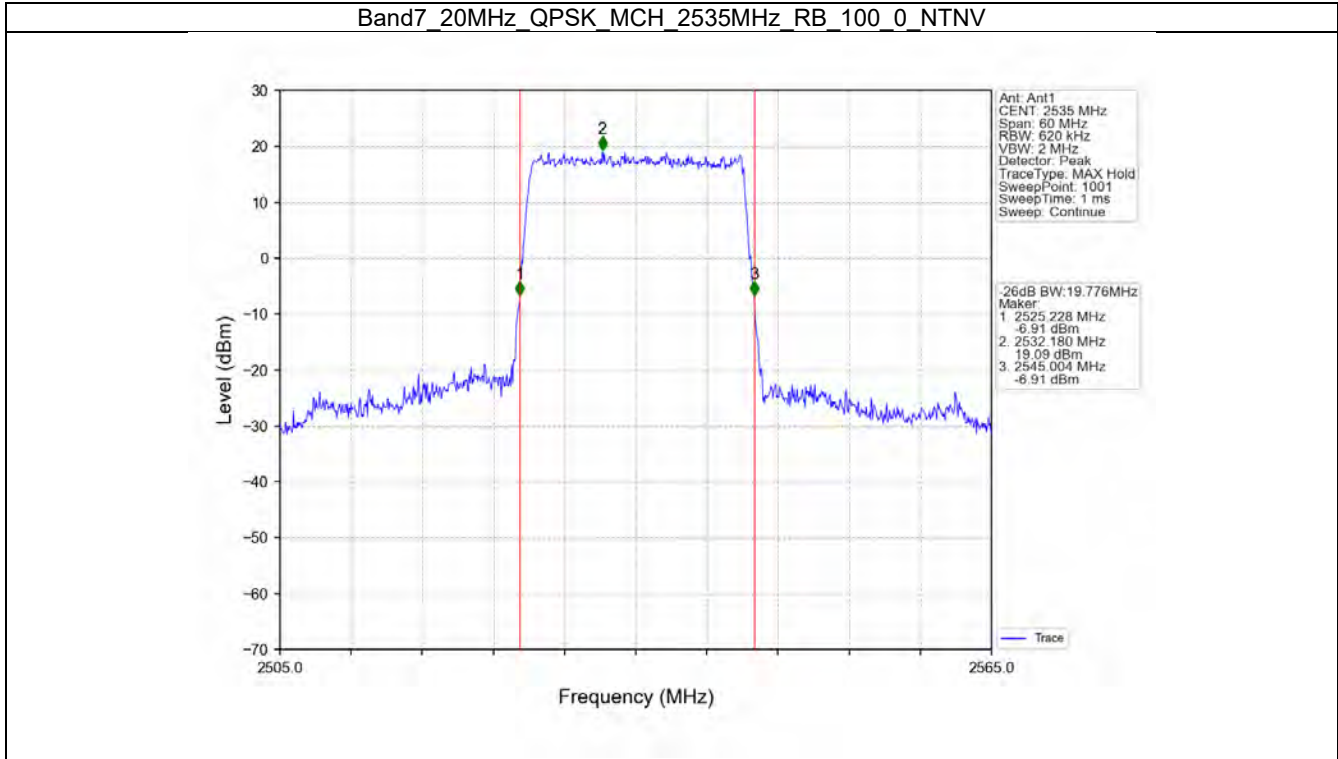
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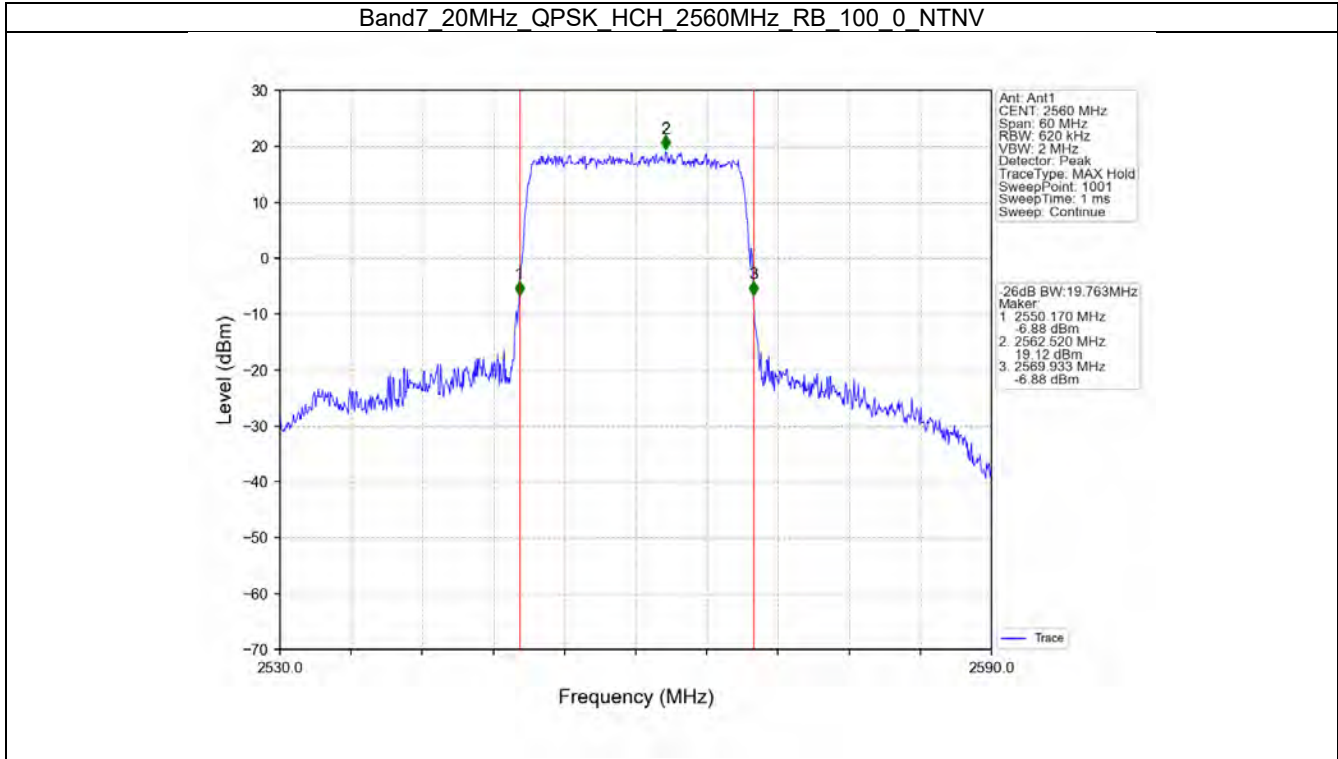
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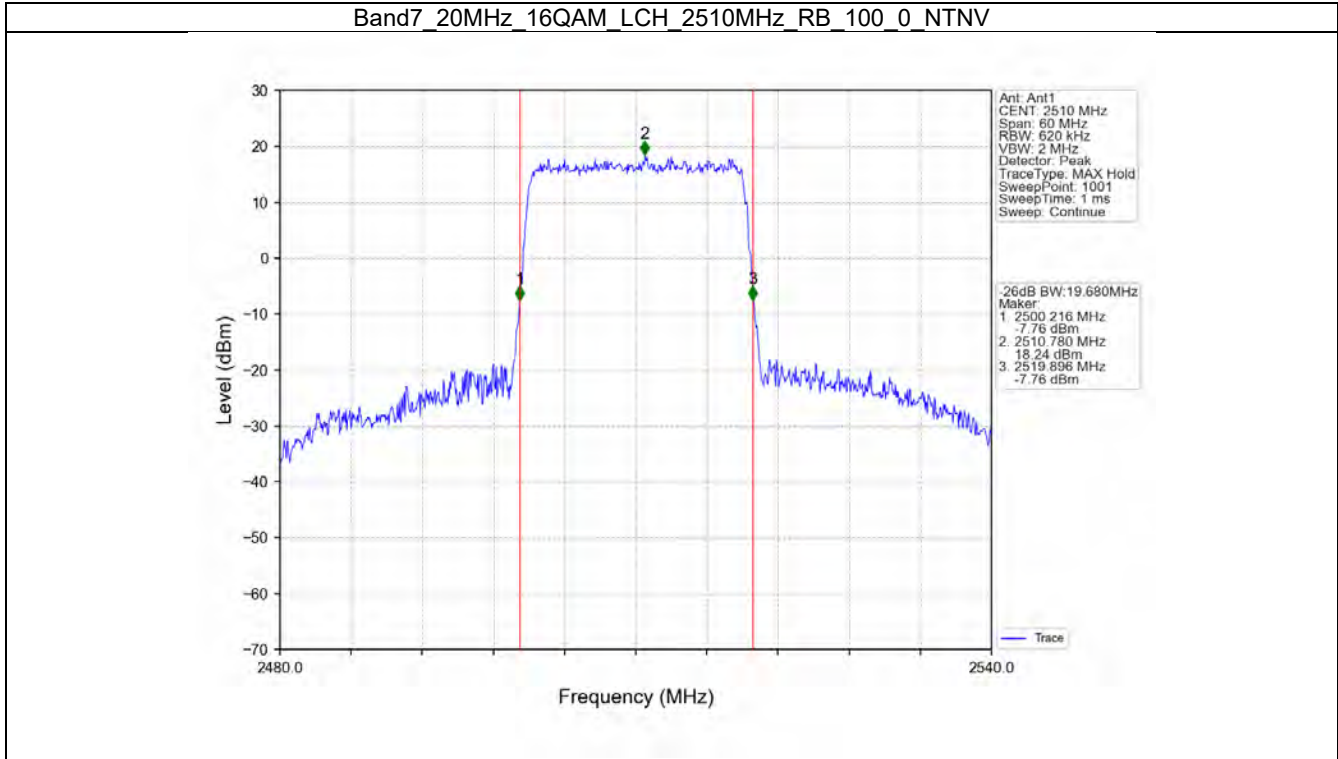
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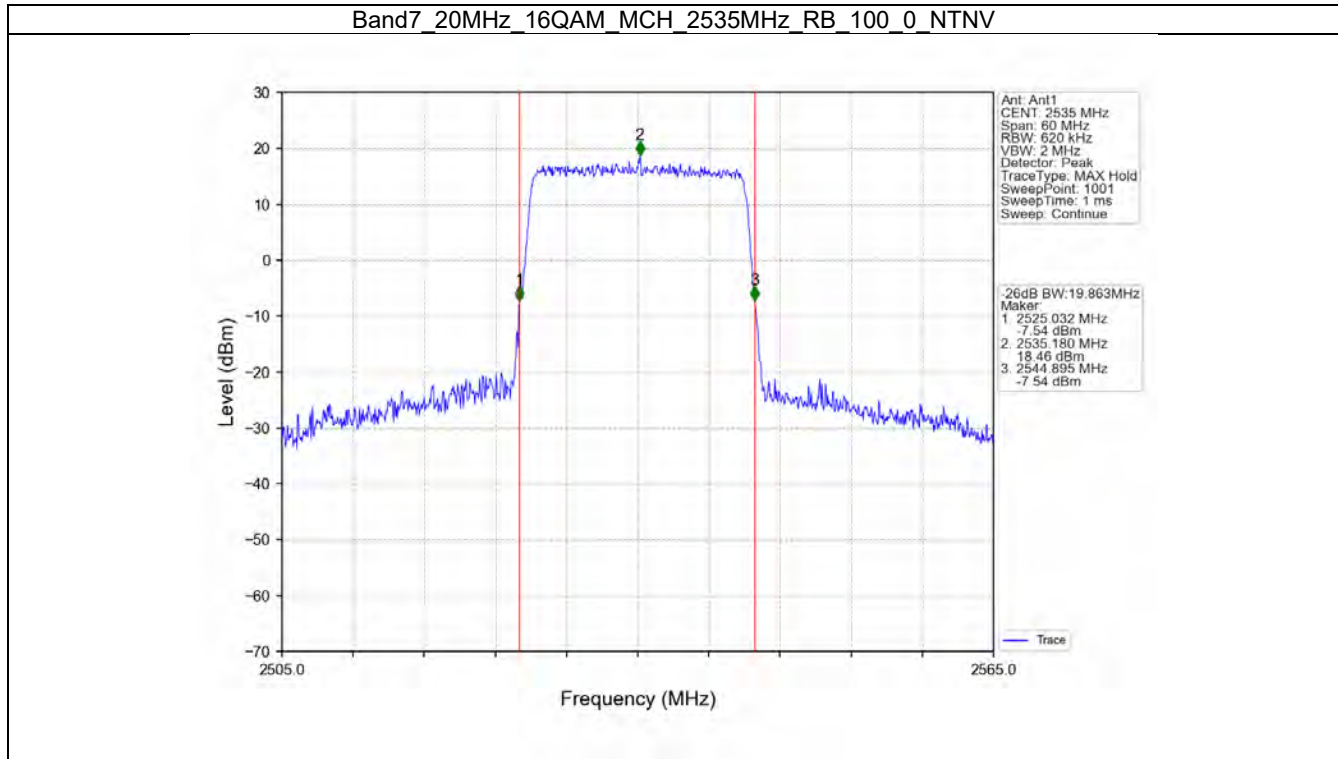


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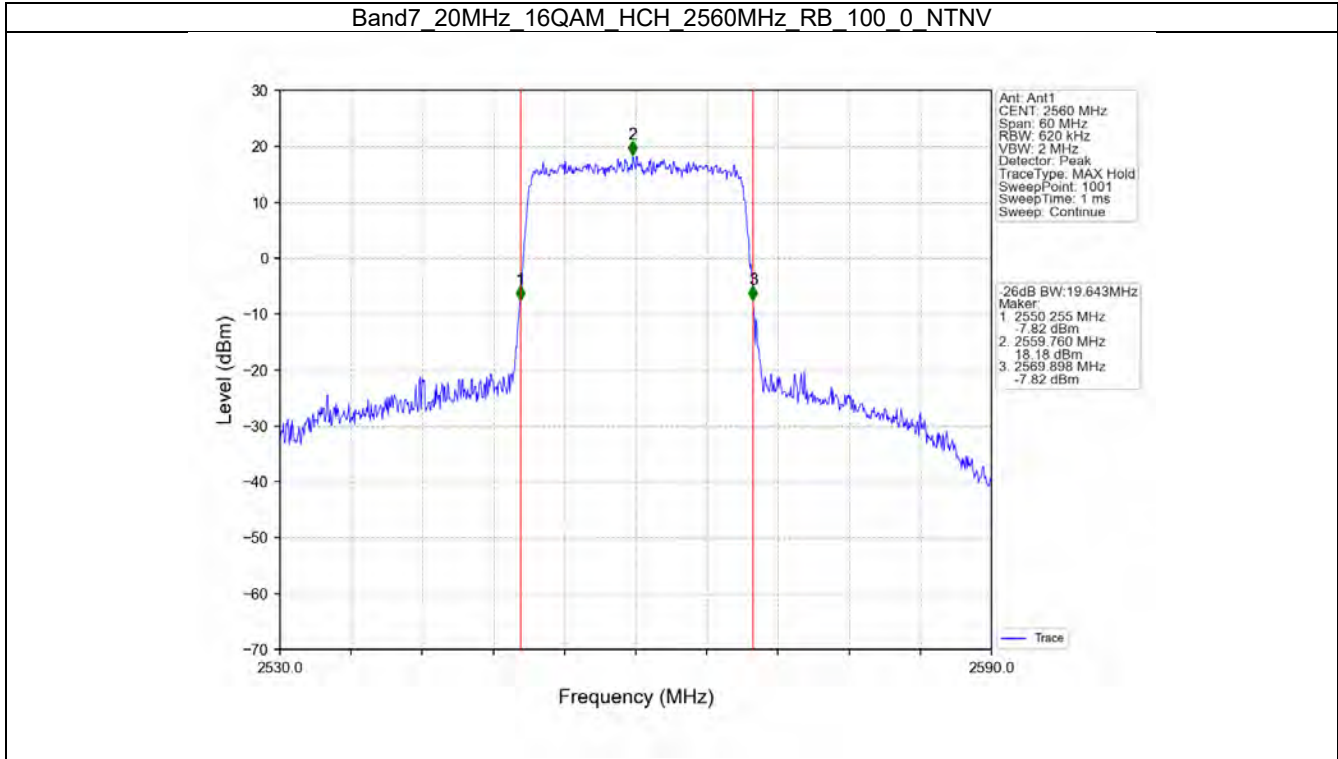
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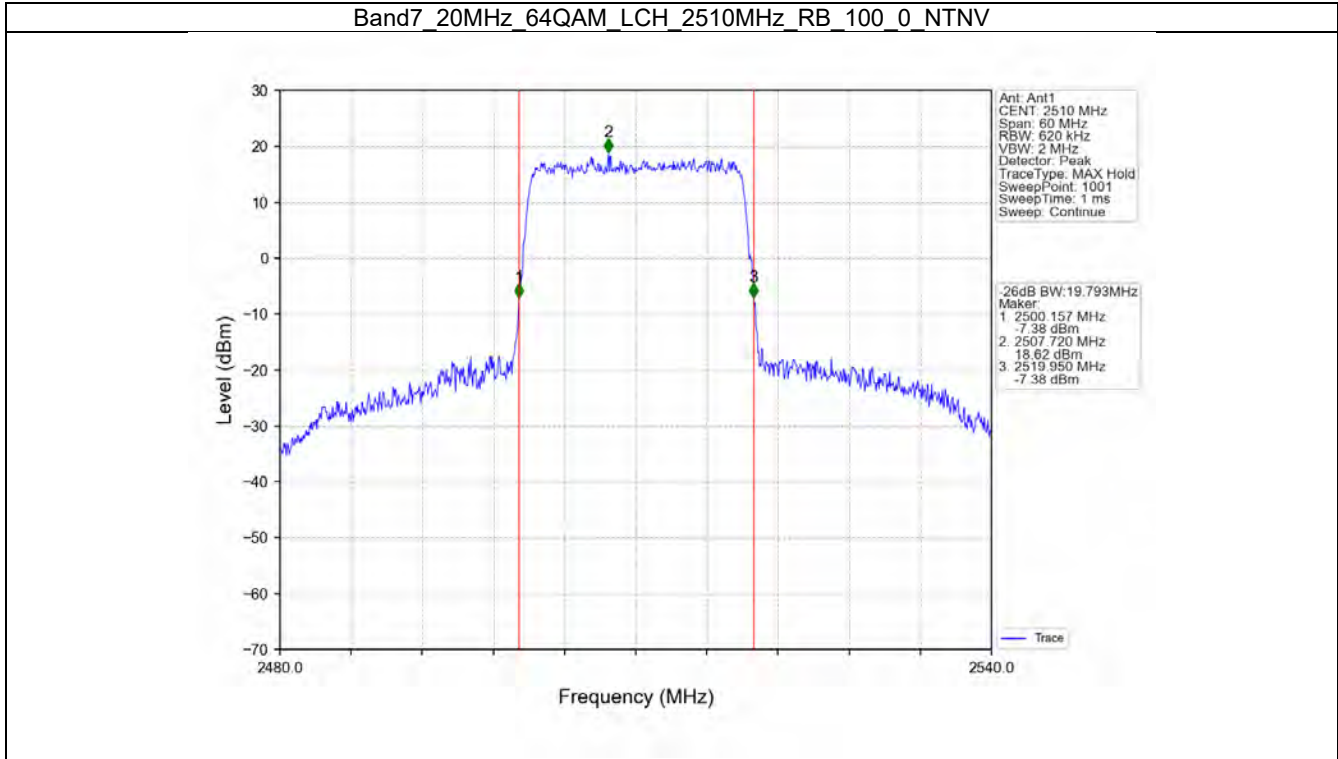
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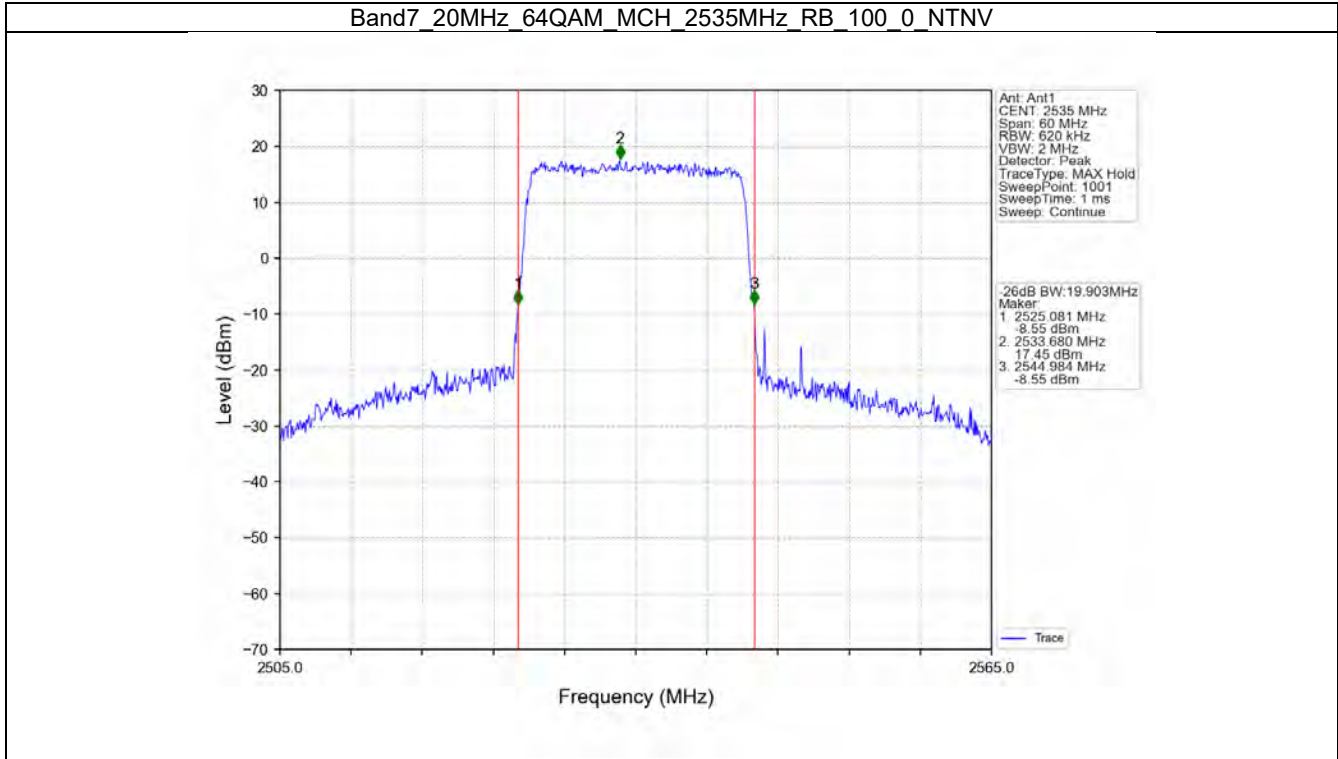
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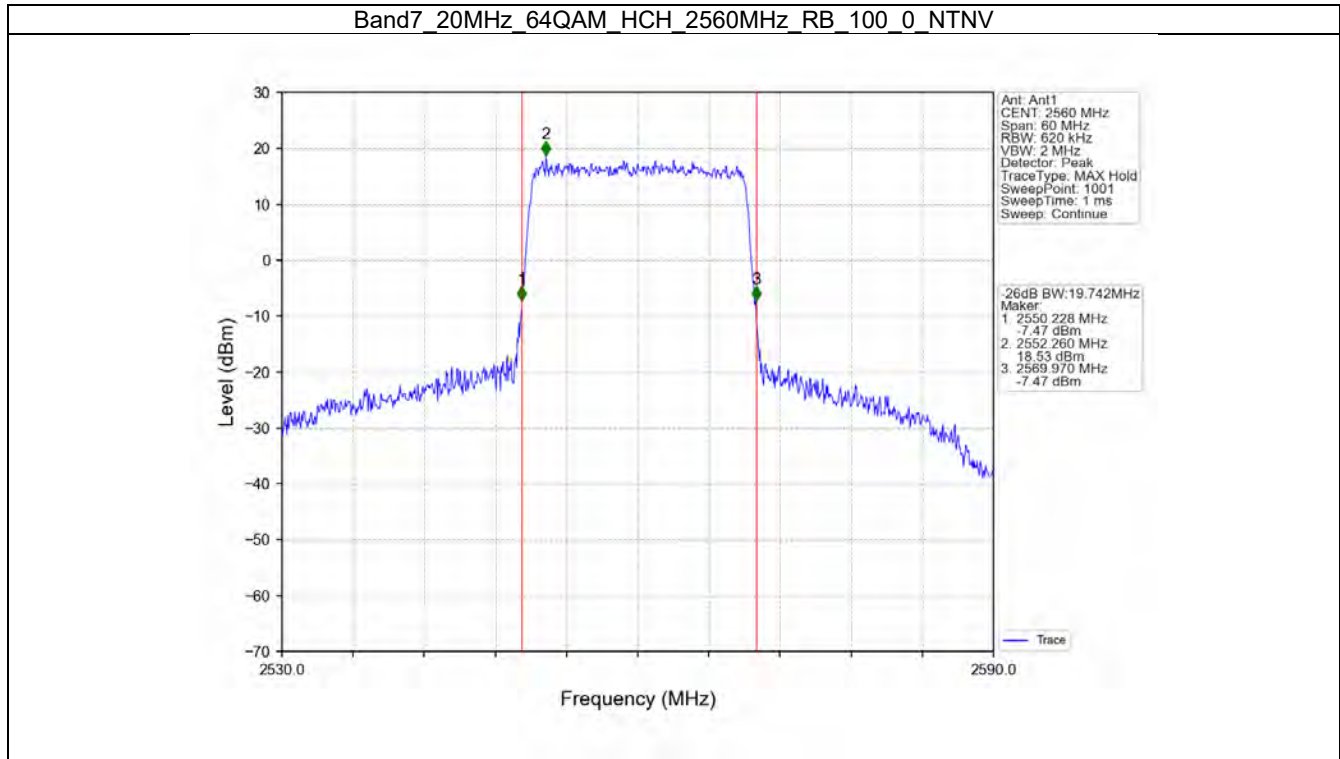
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## 4. Peak-Average Ratio

### 4.1 B7\_5MHz

#### 4.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.56	<=13	Pass
	2535	25	0	5.60	<=13	Pass
	2567.5	25	0	5.40	<=13	Pass
16QAM	2502.5	25	0	6.30	<=13	Pass
	2535	25	0	6.40	<=13	Pass
	2567.5	25	0	6.26	<=13	Pass
64QAM	2502.5	25	0	6.33	<=13	Pass
	2535	25	0	6.42	<=13	Pass
	2567.5	25	0	6.28	<=13	Pass



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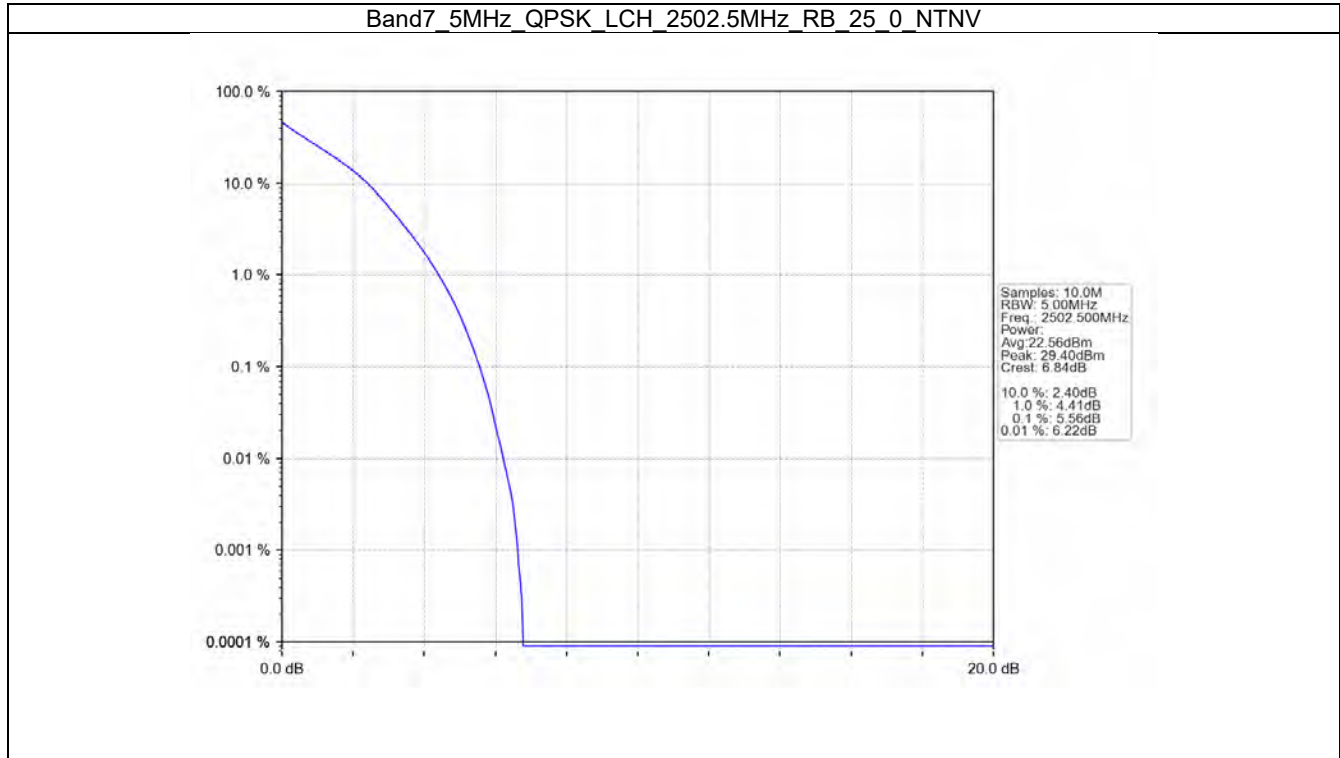




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4.1.2 Test Graph



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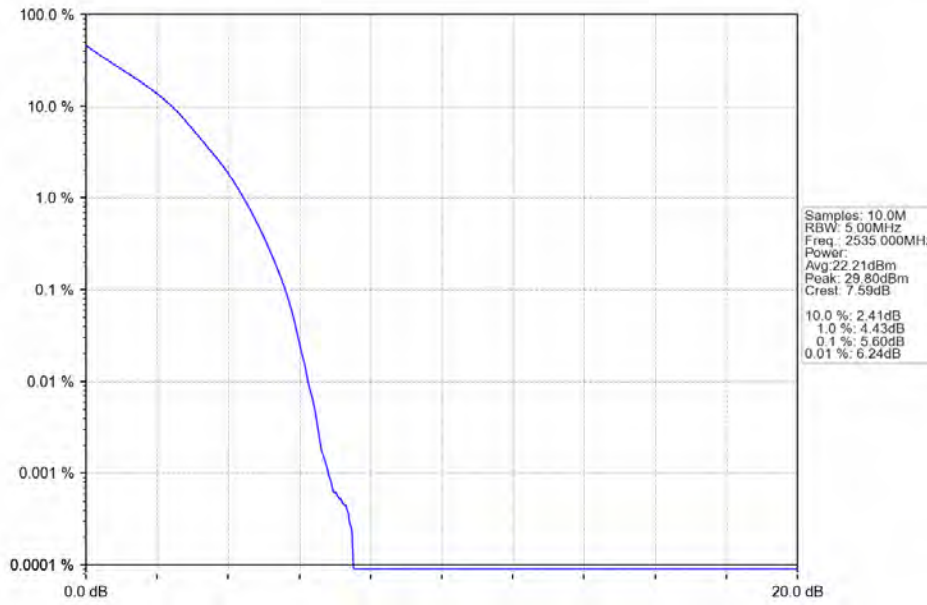
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Band7\_5MHz\_QPSK\_MCH\_2535MHz\_RB\_25\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 2535.000MHz  
 Power:  
 Avg: 22.21dBm  
 Peak: 29.80dBm  
 Crest: 7.59dB  
 10.0 %: 2.41dB  
 1.0 %: 4.43dB  
 0.1 %: 5.60dB  
 0.01 %: 6.24dB



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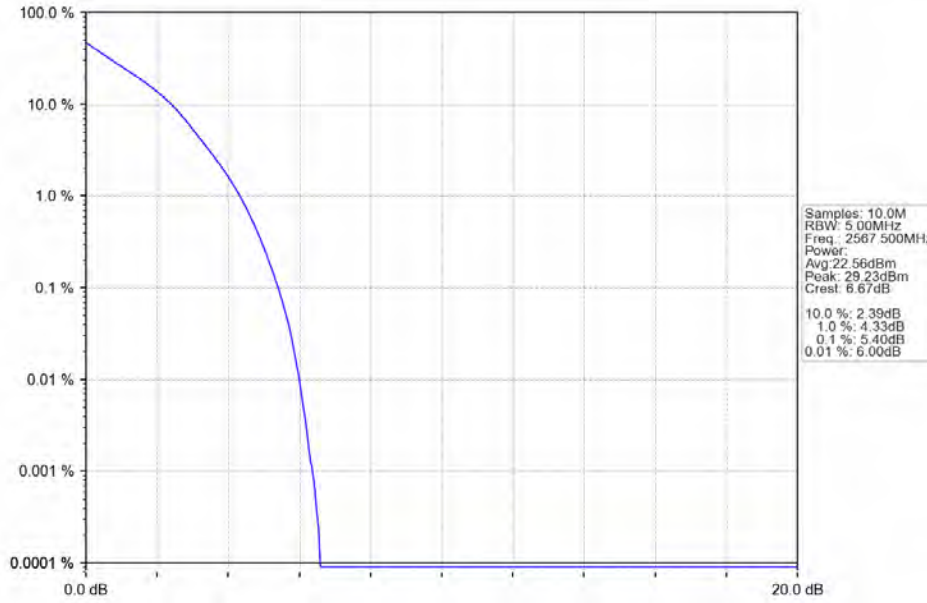
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



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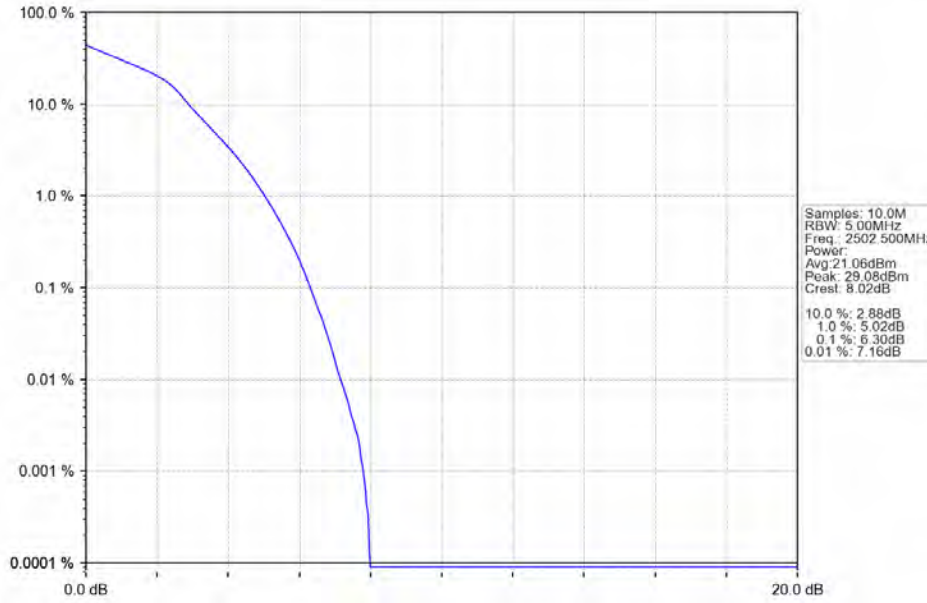
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Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



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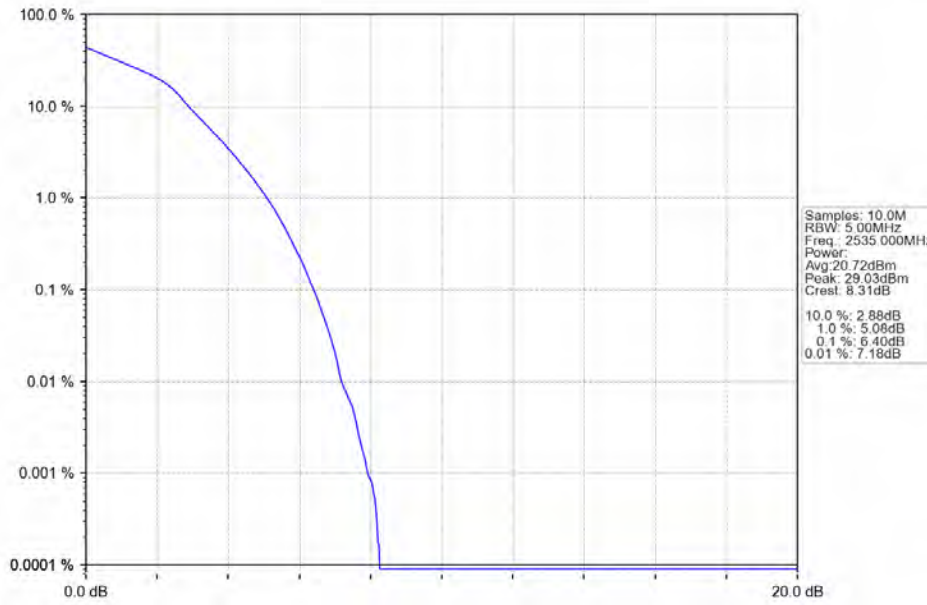
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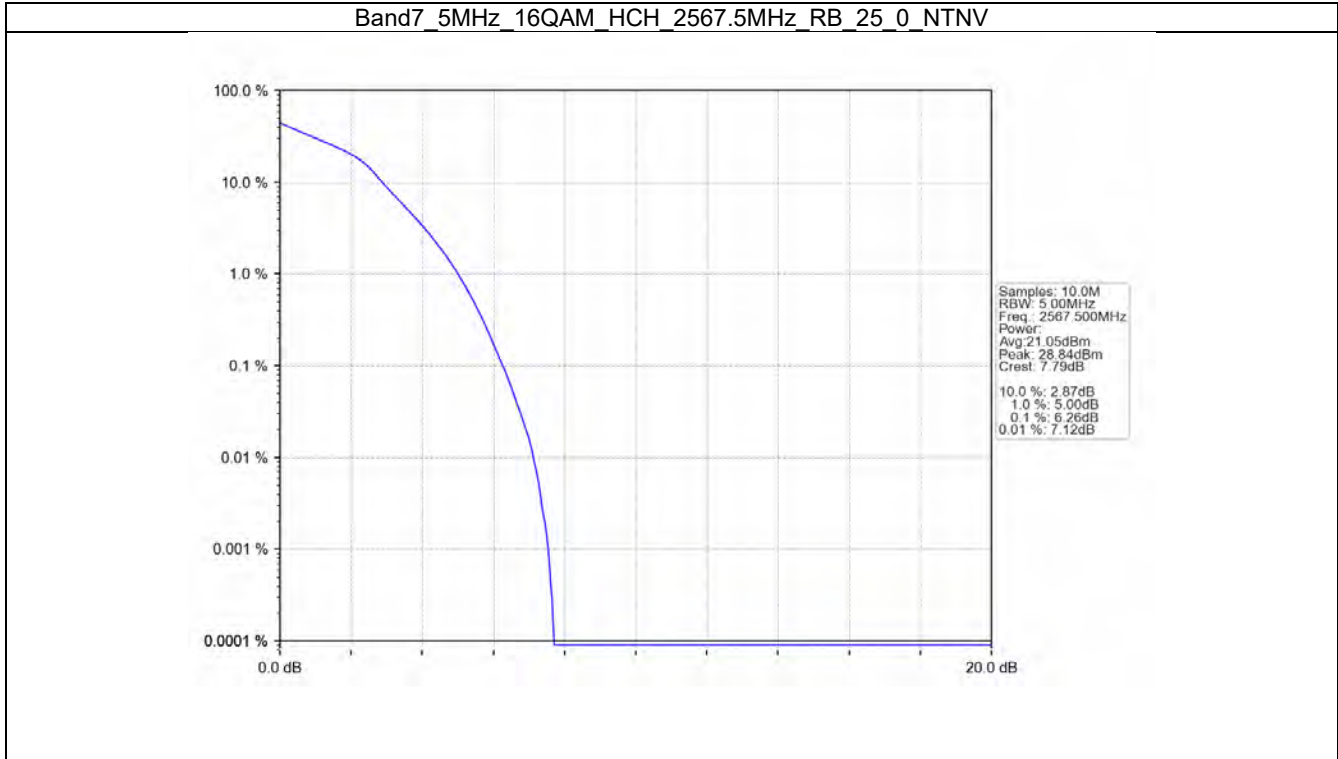
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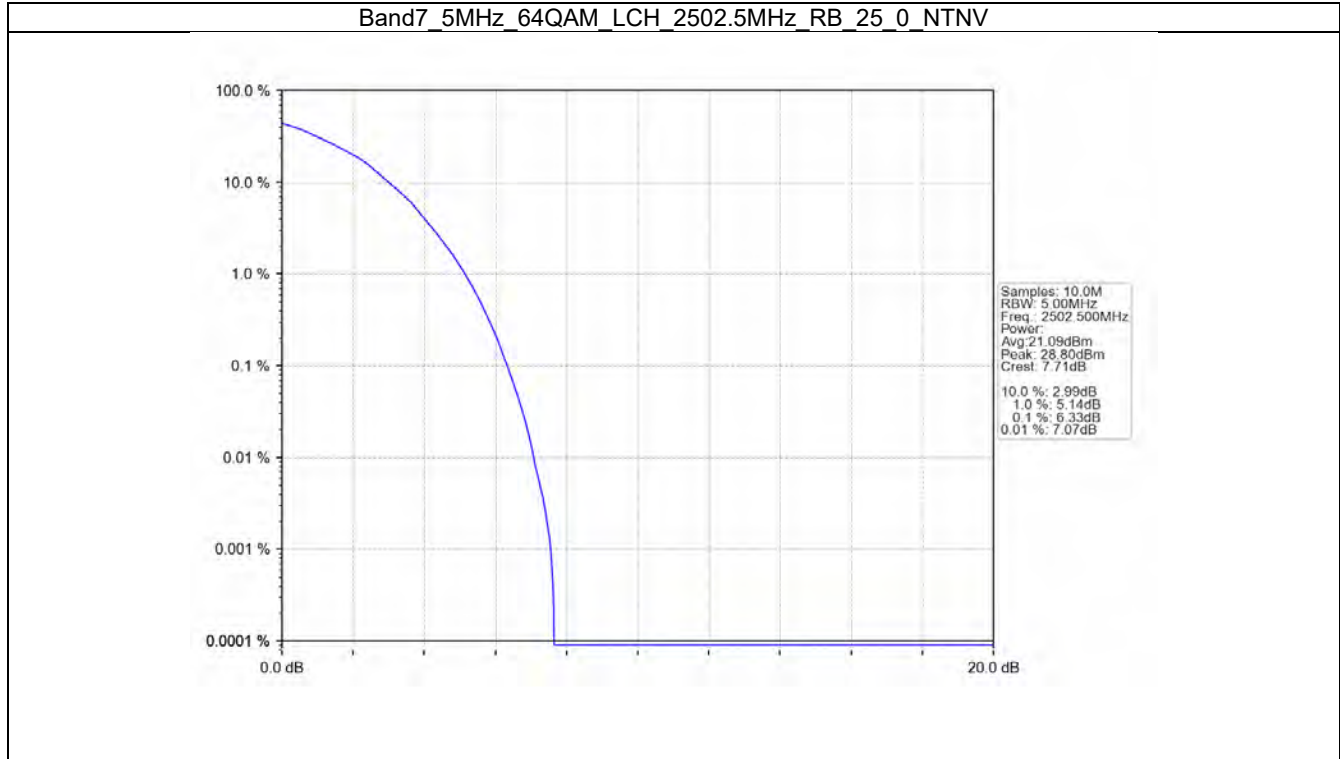
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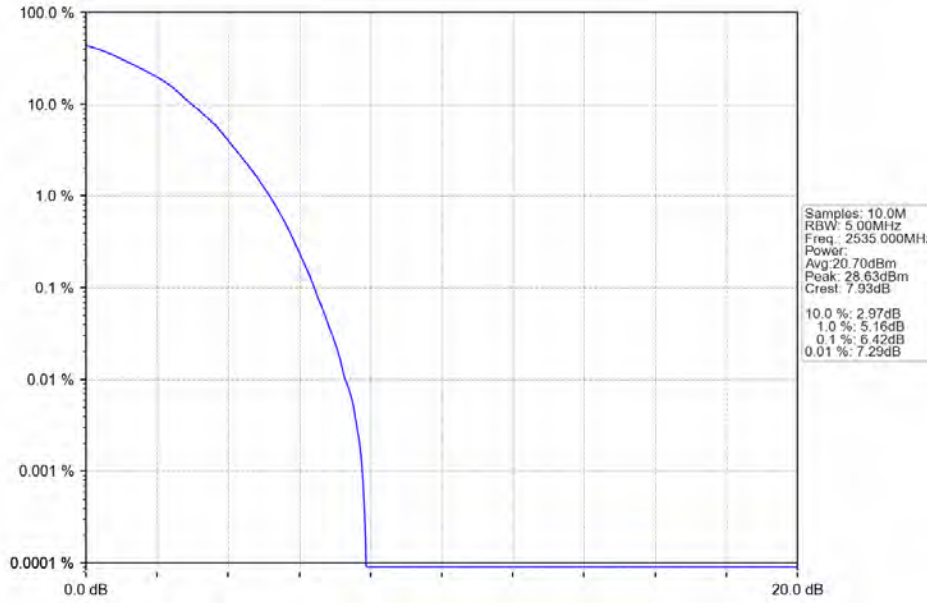
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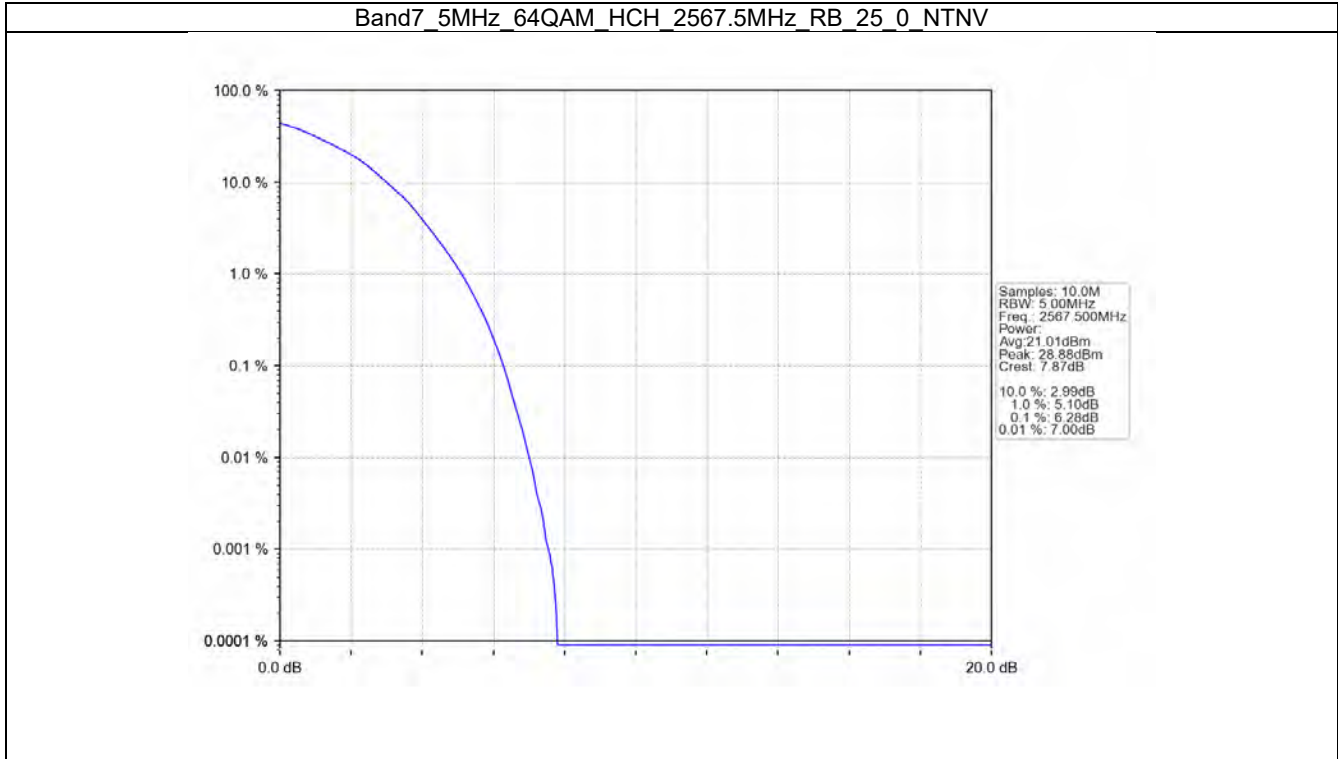
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## 4.2 B7\_10MHz

### 4.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.47	<=13	Pass
	2535	50	0	5.51	<=13	Pass
	2565	50	0	5.40	<=13	Pass
16QAM	2505	50	0	6.30	<=13	Pass
	2535	50	0	6.41	<=13	Pass
	2565	50	0	6.30	<=13	Pass
64QAM	2505	50	0	6.33	<=13	Pass
	2535	50	0	6.45	<=13	Pass
	2565	50	0	6.32	<=13	Pass



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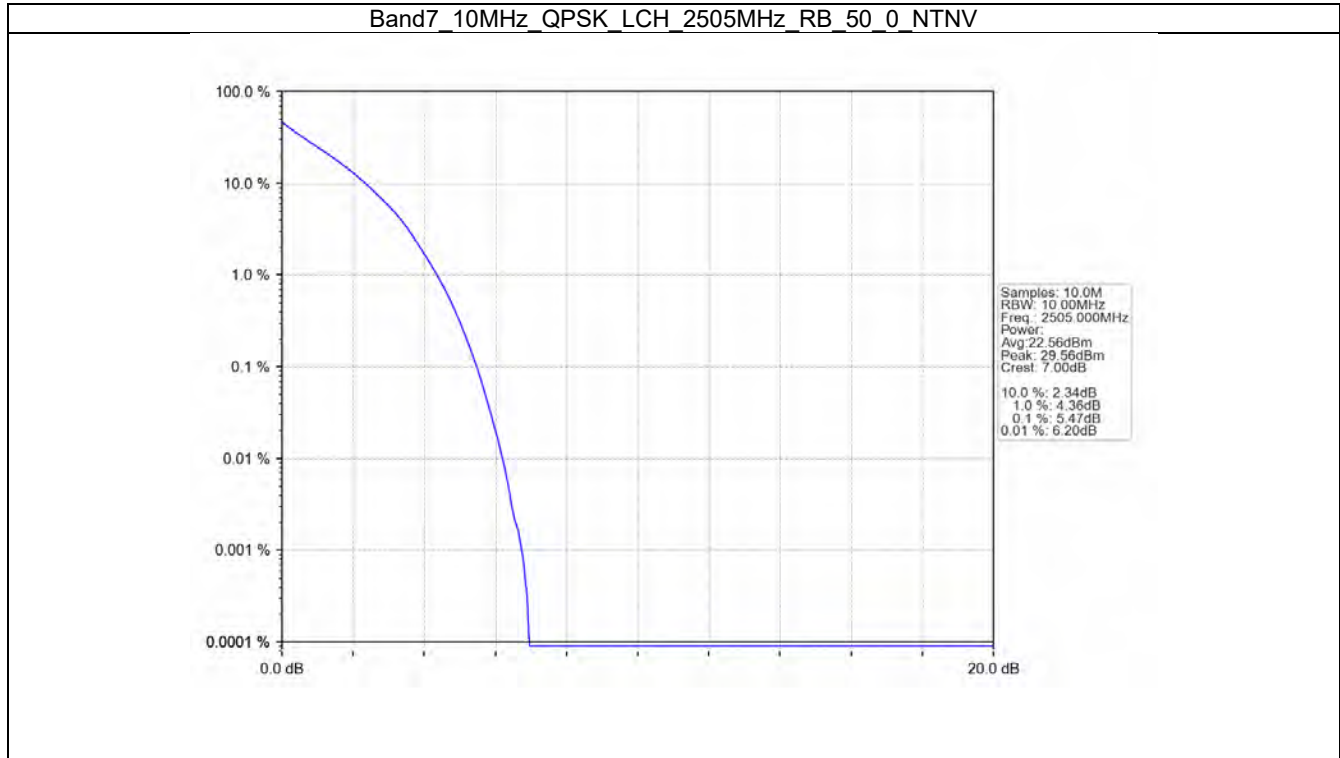
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4.2.2 Test Graph



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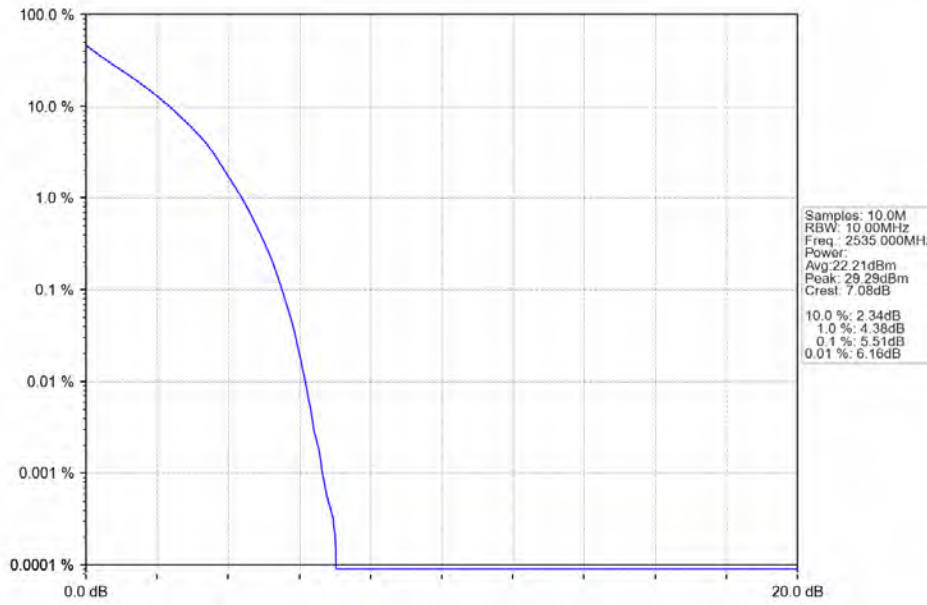
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Band7\_10MHz\_QPSK\_MCH\_2535MHz\_RB\_50\_0\_NTNV



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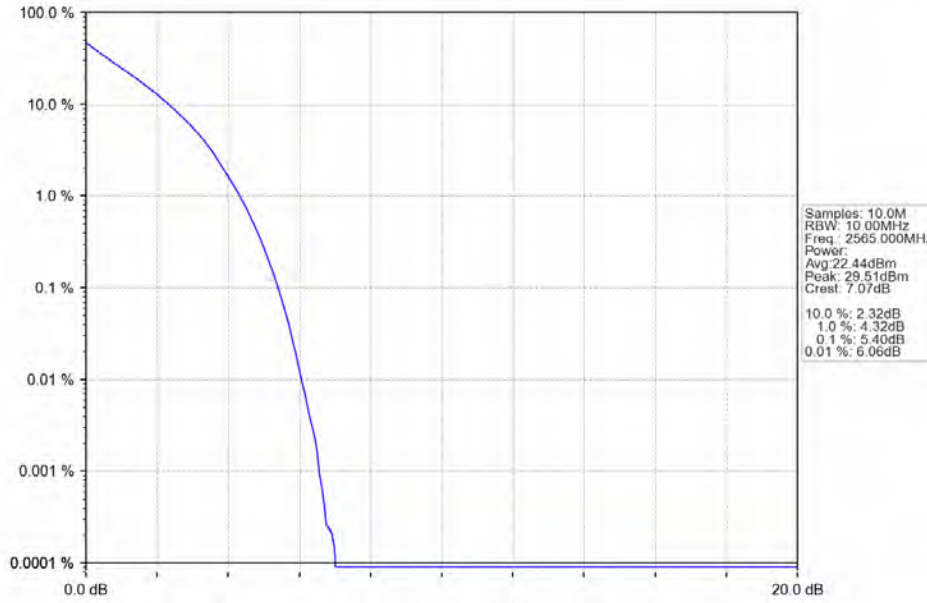
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Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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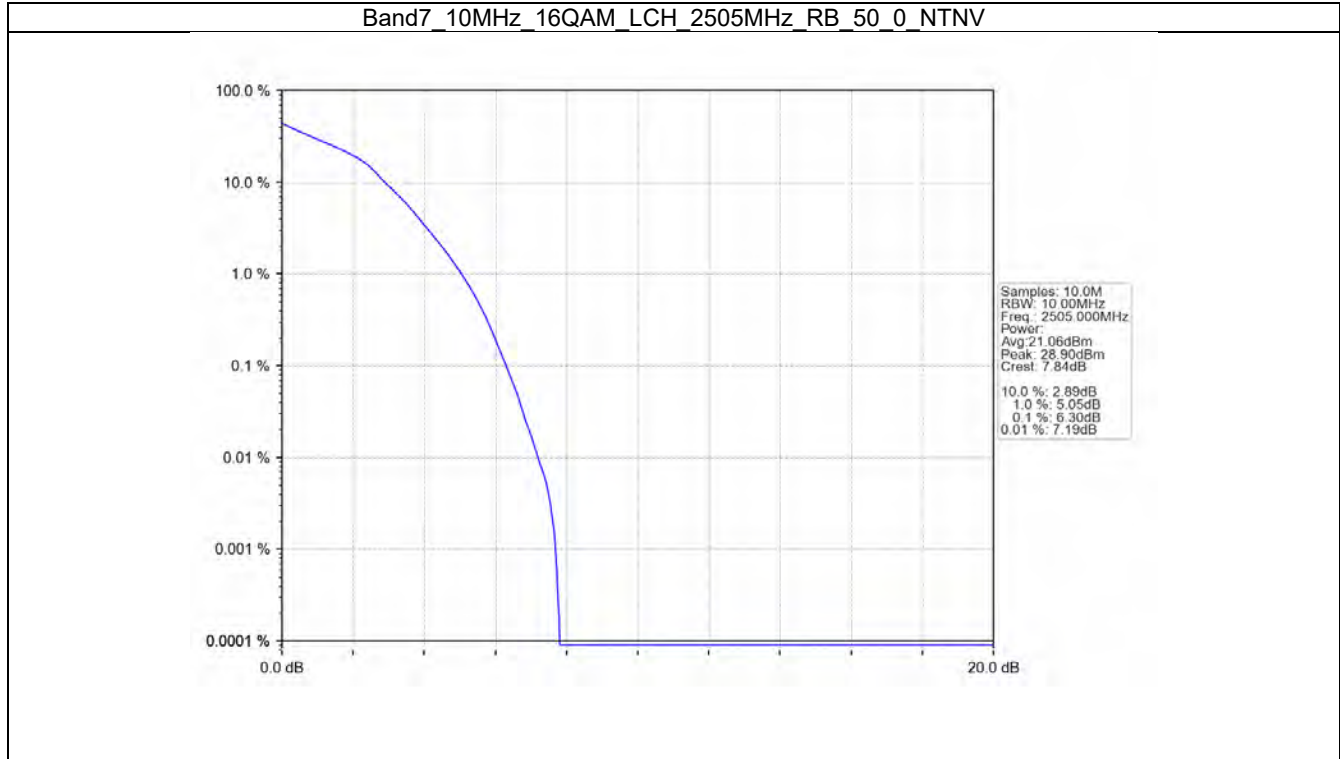
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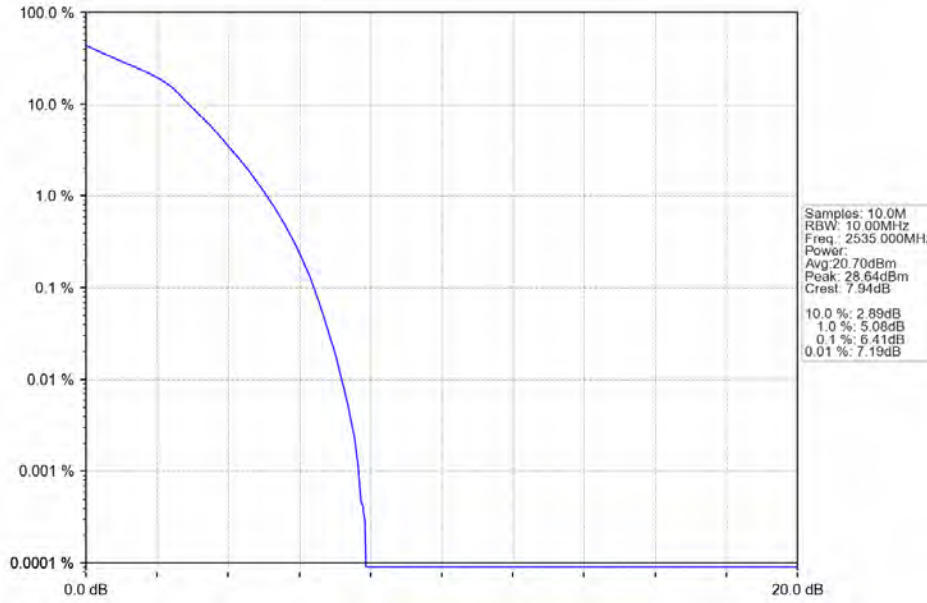
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Band7\_10MHz\_16QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



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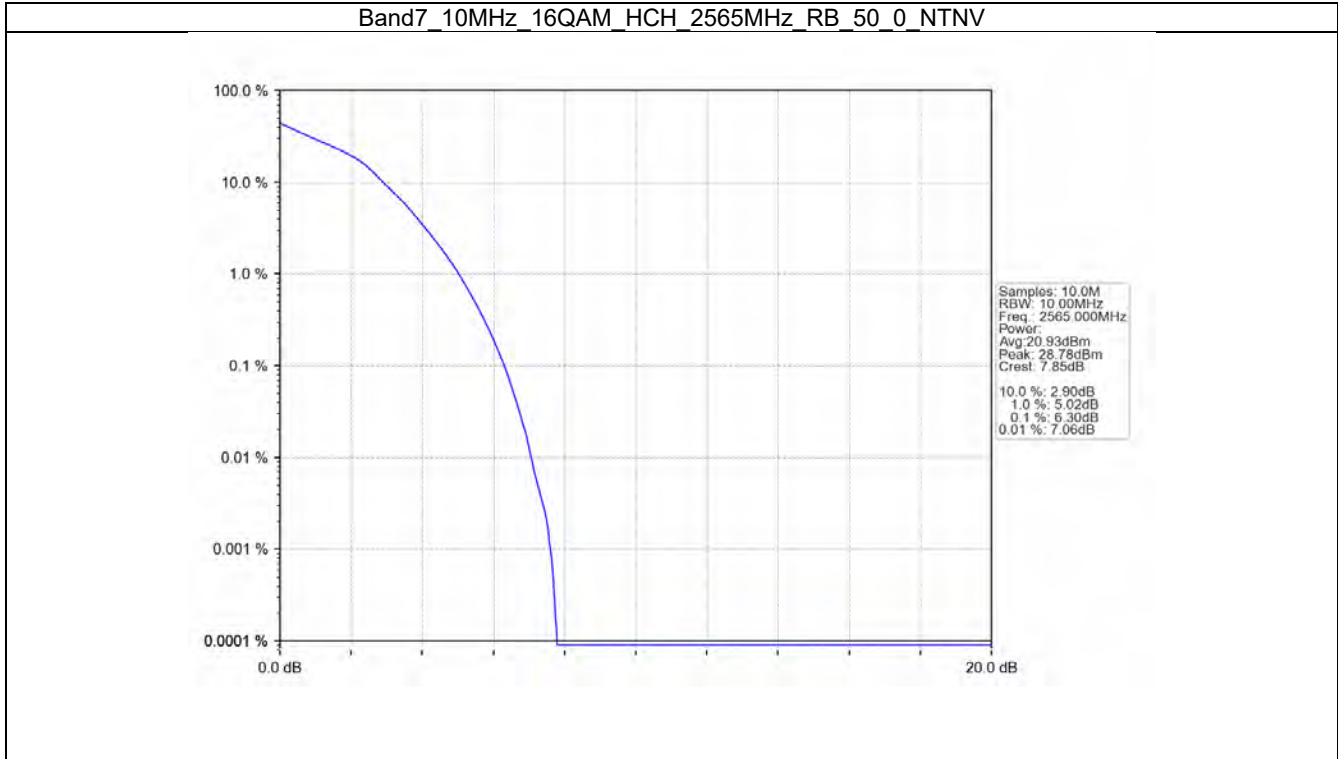
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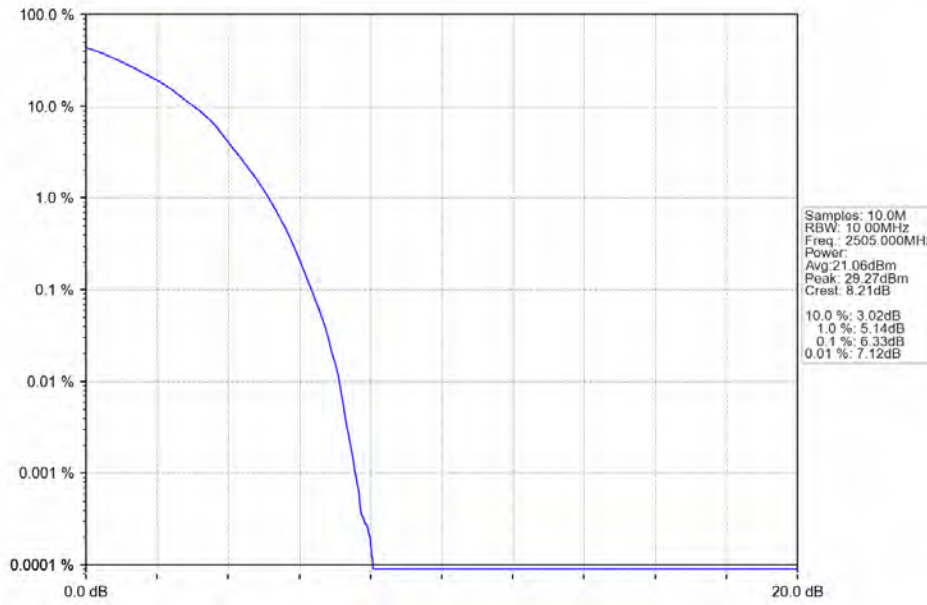




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Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



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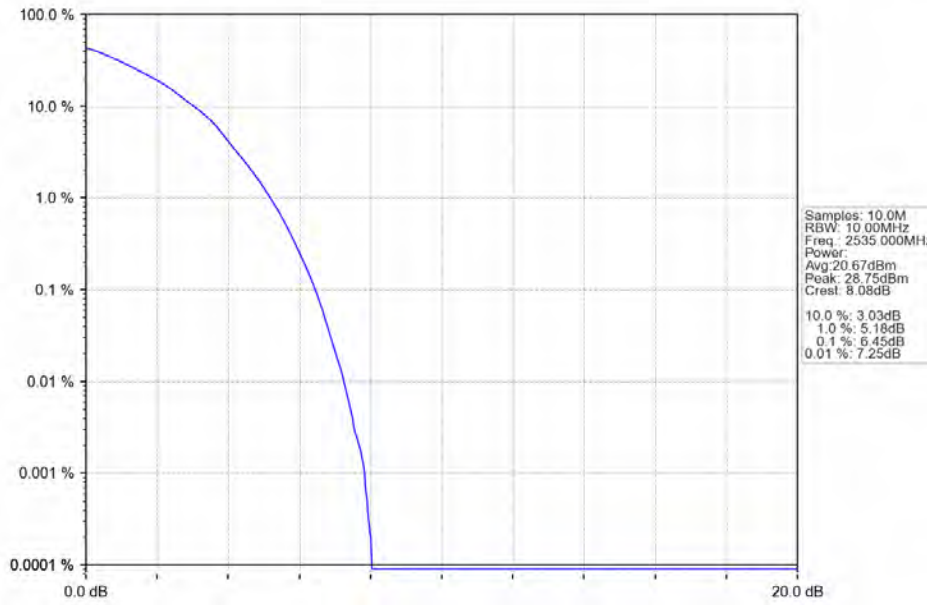
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Band7\_10MHz\_64QAM\_MCH\_2535MHz\_RB\_50\_0\_NTNV



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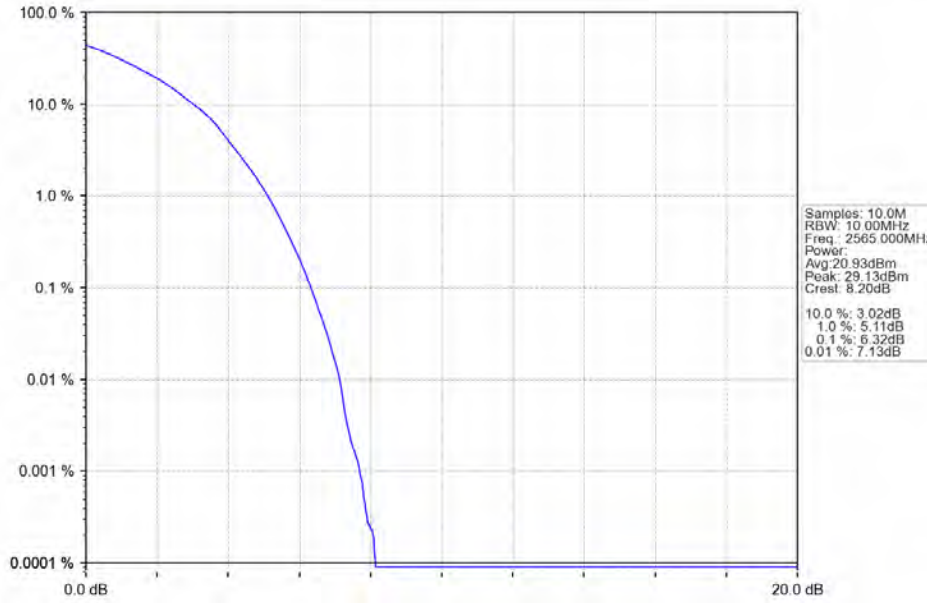
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Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



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## 4.3 B7\_15MHz

### 4.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.79	<=13	Pass
	2535	75	0	5.80	<=13	Pass
	2562.5	75	0	5.73	<=13	Pass
16QAM	2507.5	75	0	6.40	<=13	Pass
	2535	75	0	6.41	<=13	Pass
	2562.5	75	0	6.36	<=13	Pass
64QAM	2507.5	75	0	6.36	<=13	Pass
	2535	75	0	6.40	<=13	Pass
	2562.5	75	0	6.38	<=13	Pass



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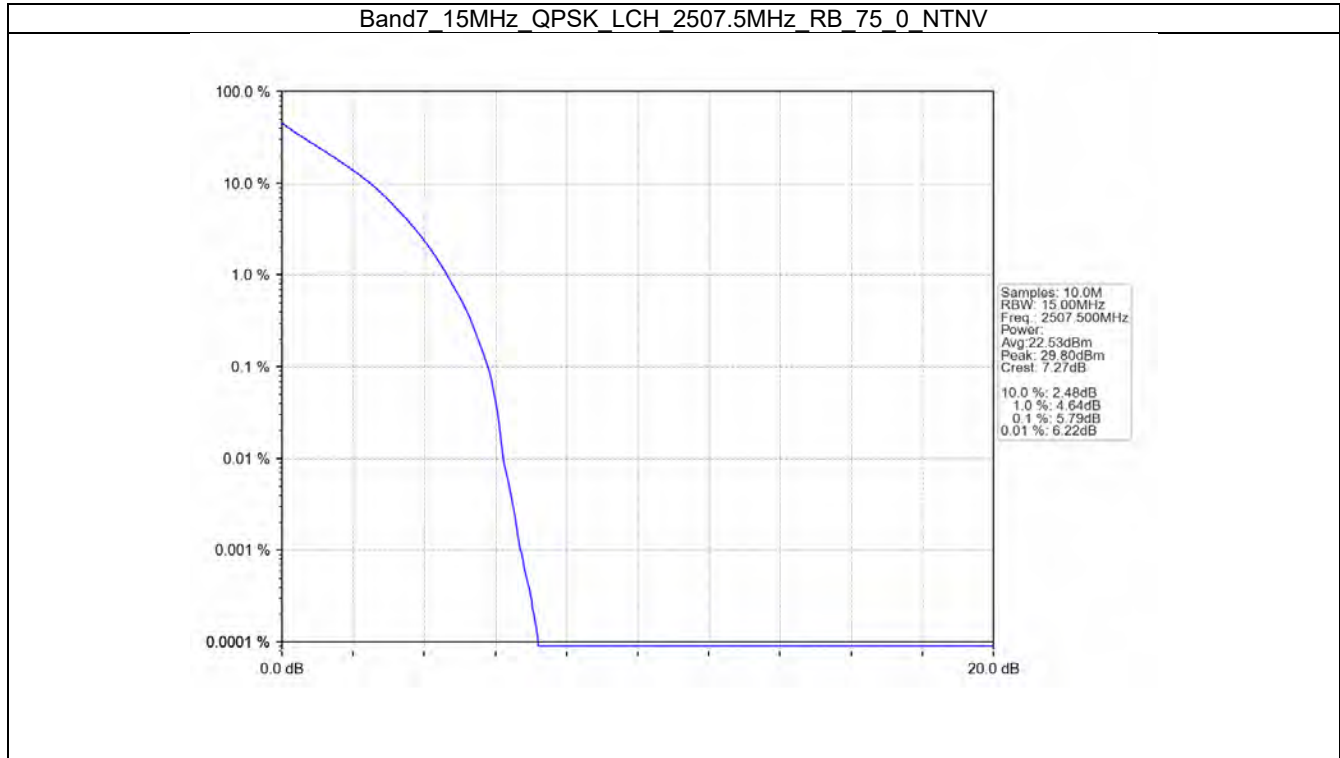
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4.3.2 Test Graph



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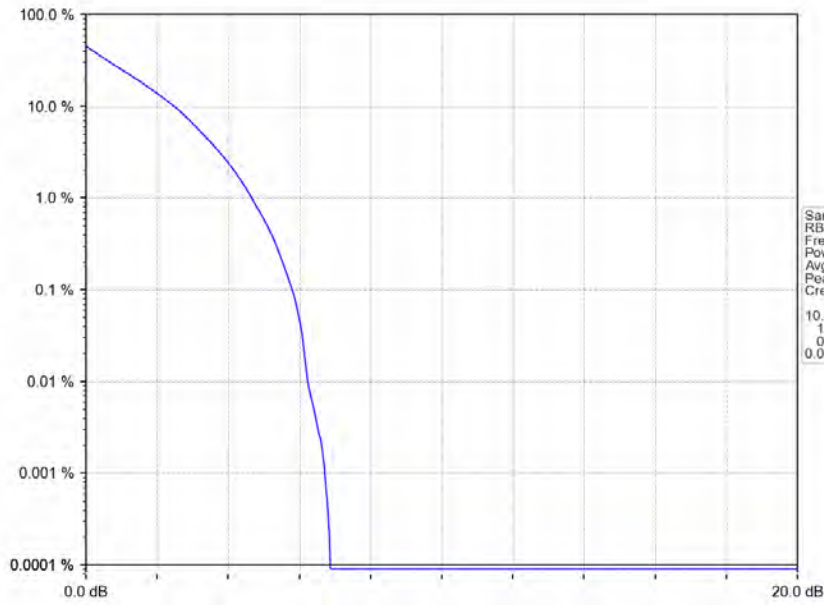
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Band7\_15MHz\_QPSK\_MCH\_2535MHz\_RB\_75\_0\_NTNV



Samples: 10.0M  
RBW: 15.00MHz  
Freq: 2535.000MHz  
Power:  
Avg: 22.21dBm  
Peak: 29.14dBm  
Crest: 6.93dB

10.0 %: 2.47dB  
1.0 %: 4.66dB  
0.1 %: 5.80dB  
0.01 %: 6.24dB



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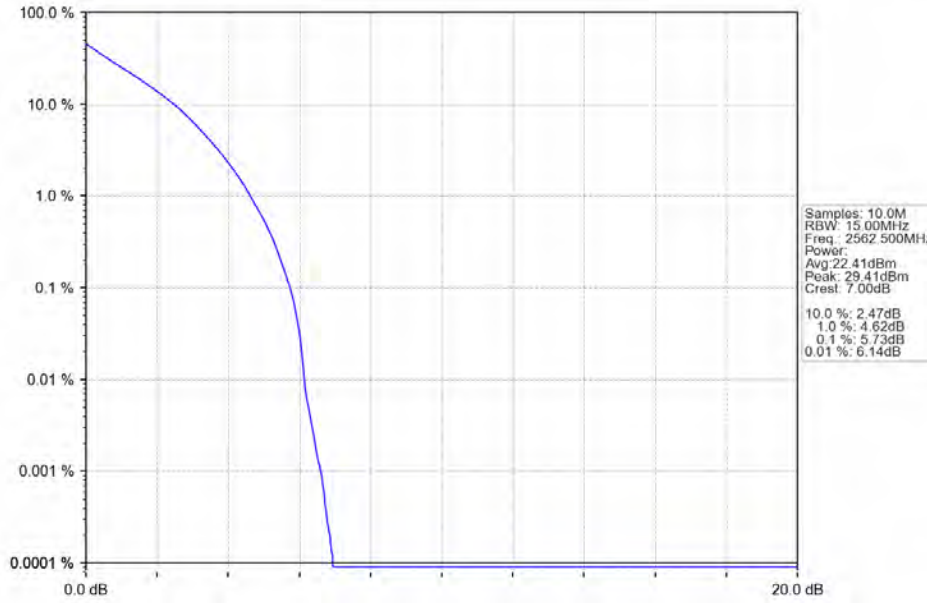
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Band7\_15MHz\_QPSK\_HCH\_2562.5MHz\_RB\_75\_0\_NTNV



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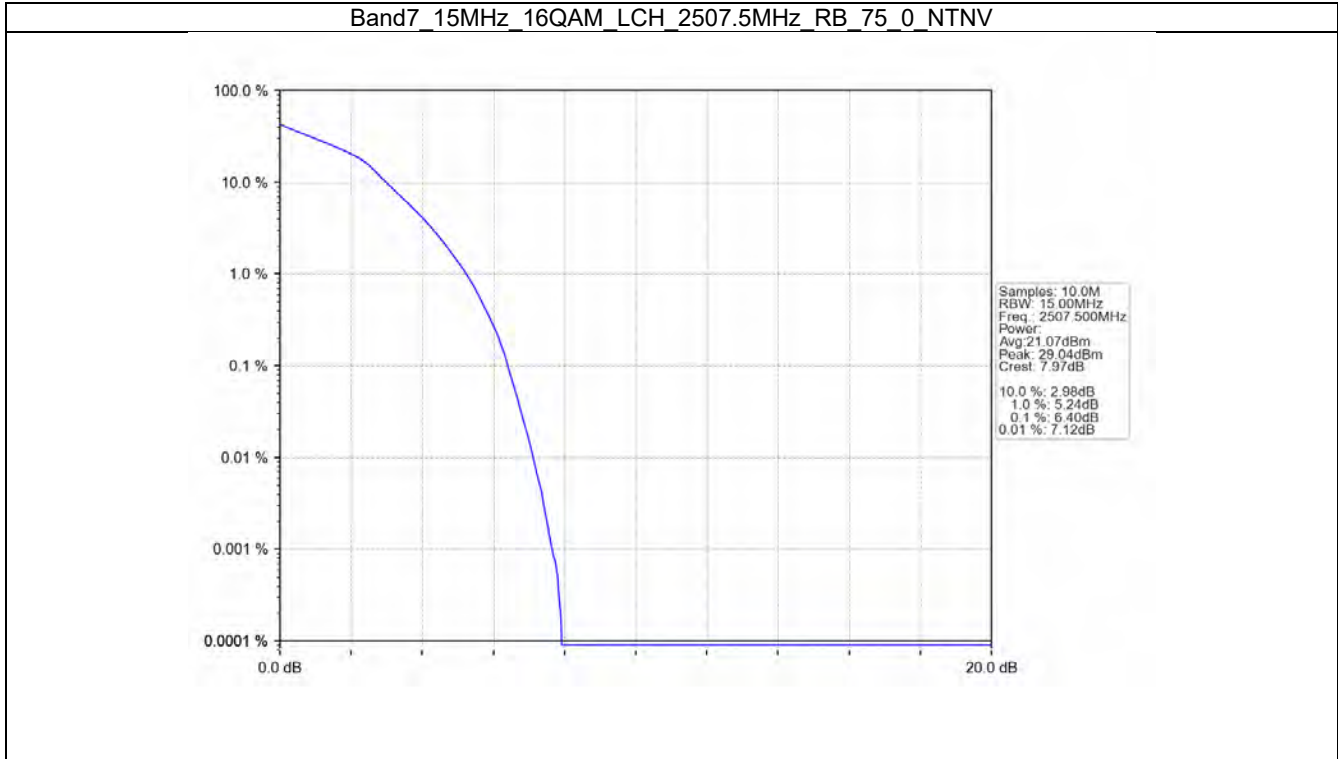
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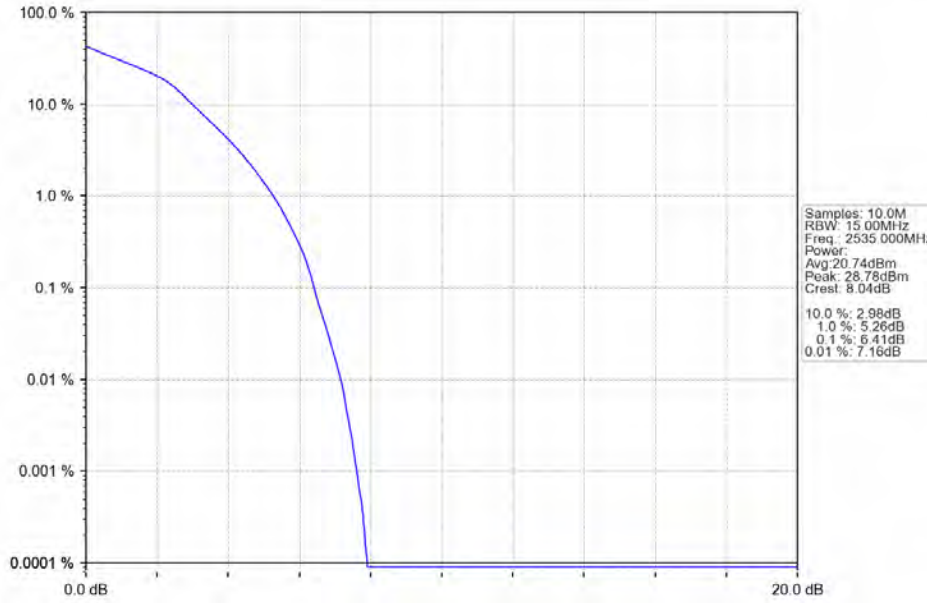




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Band7\_15MHz\_16QAM\_MCH\_2535MHz\_RB\_75\_0\_NTNV



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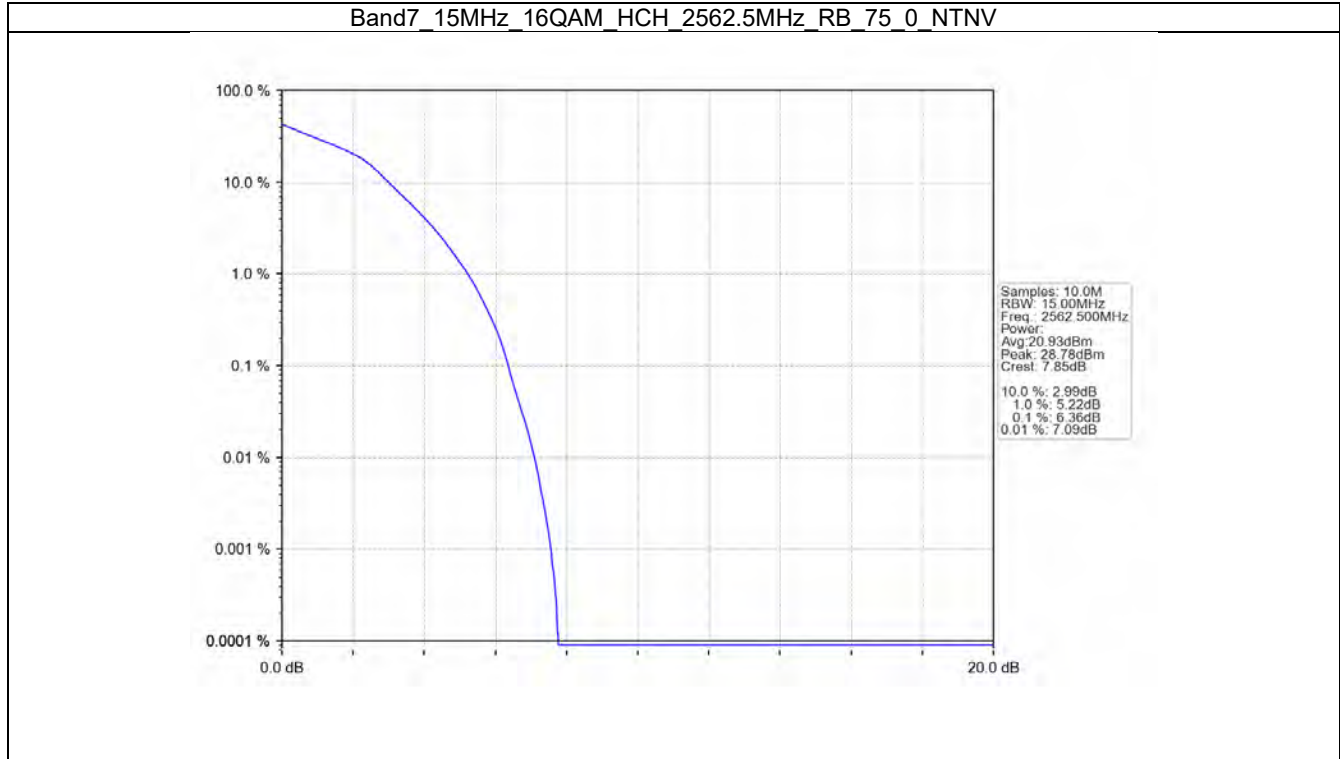
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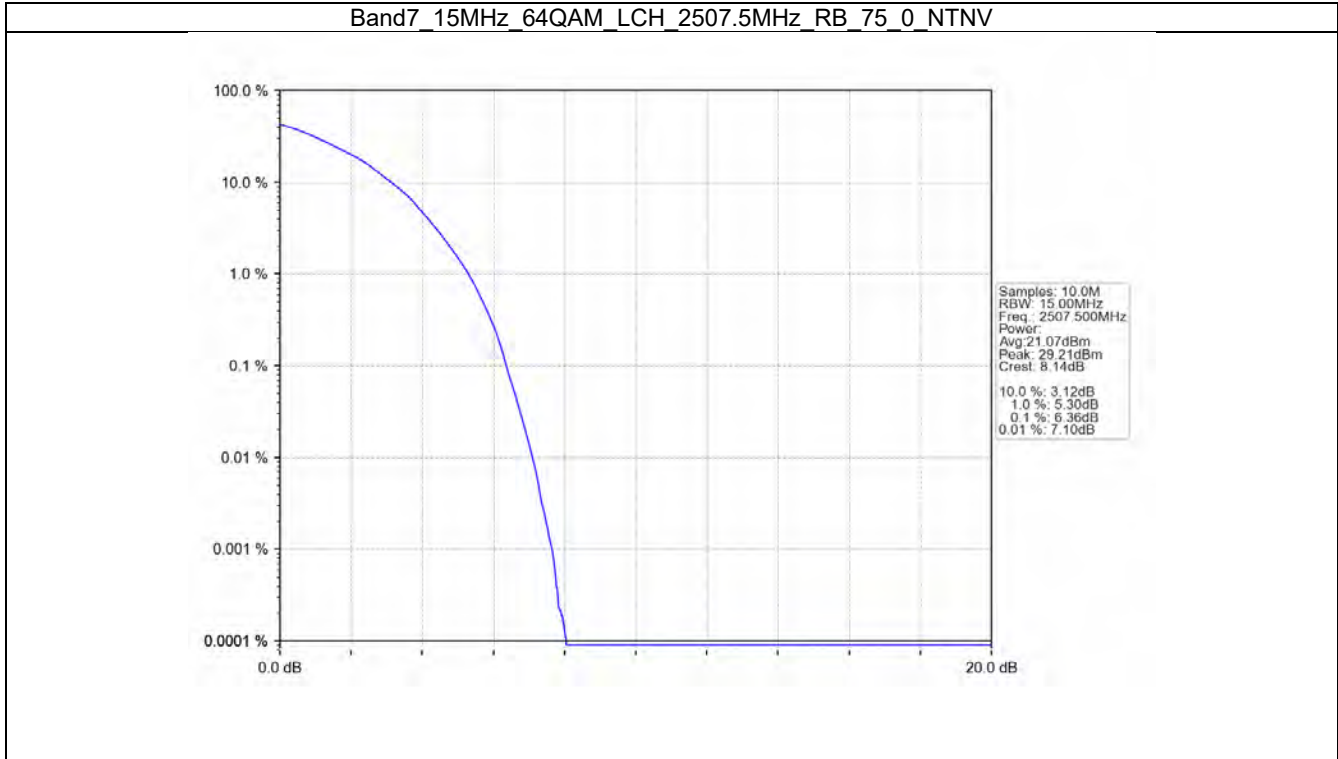
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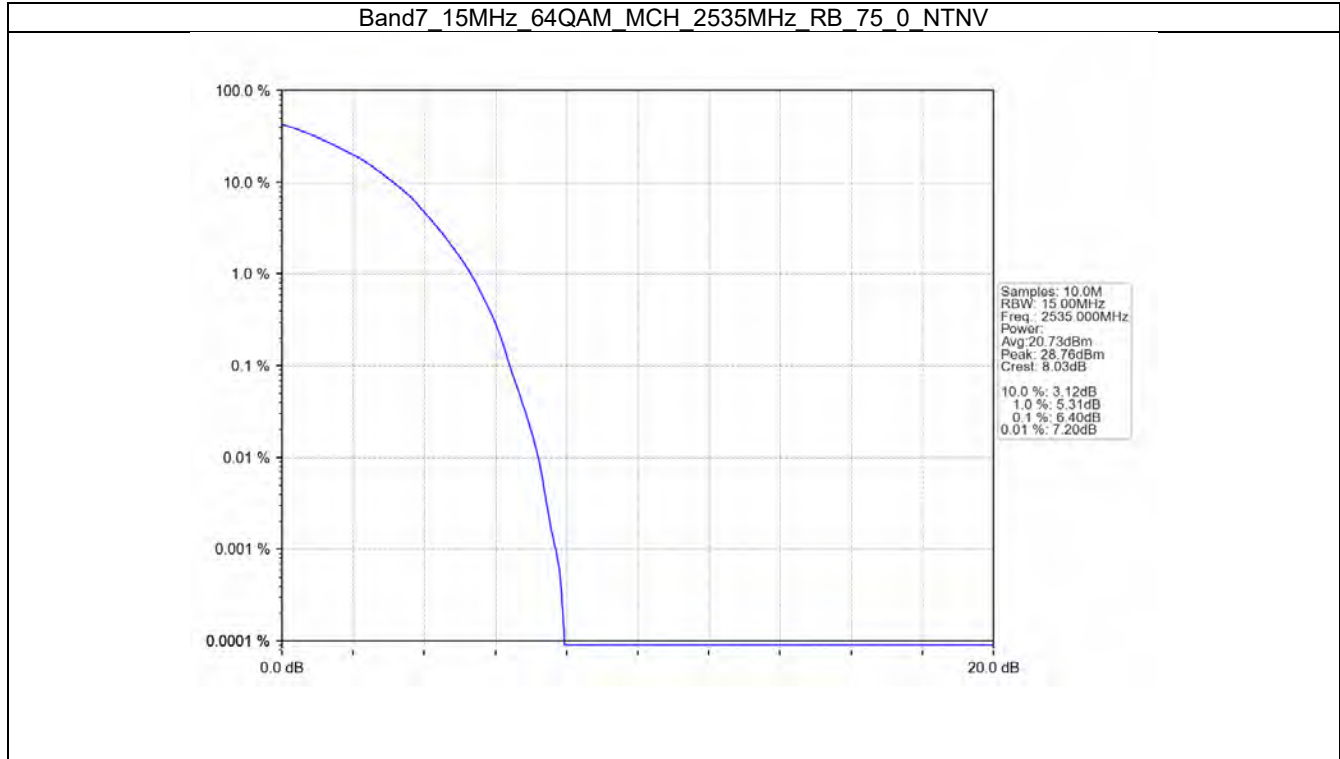
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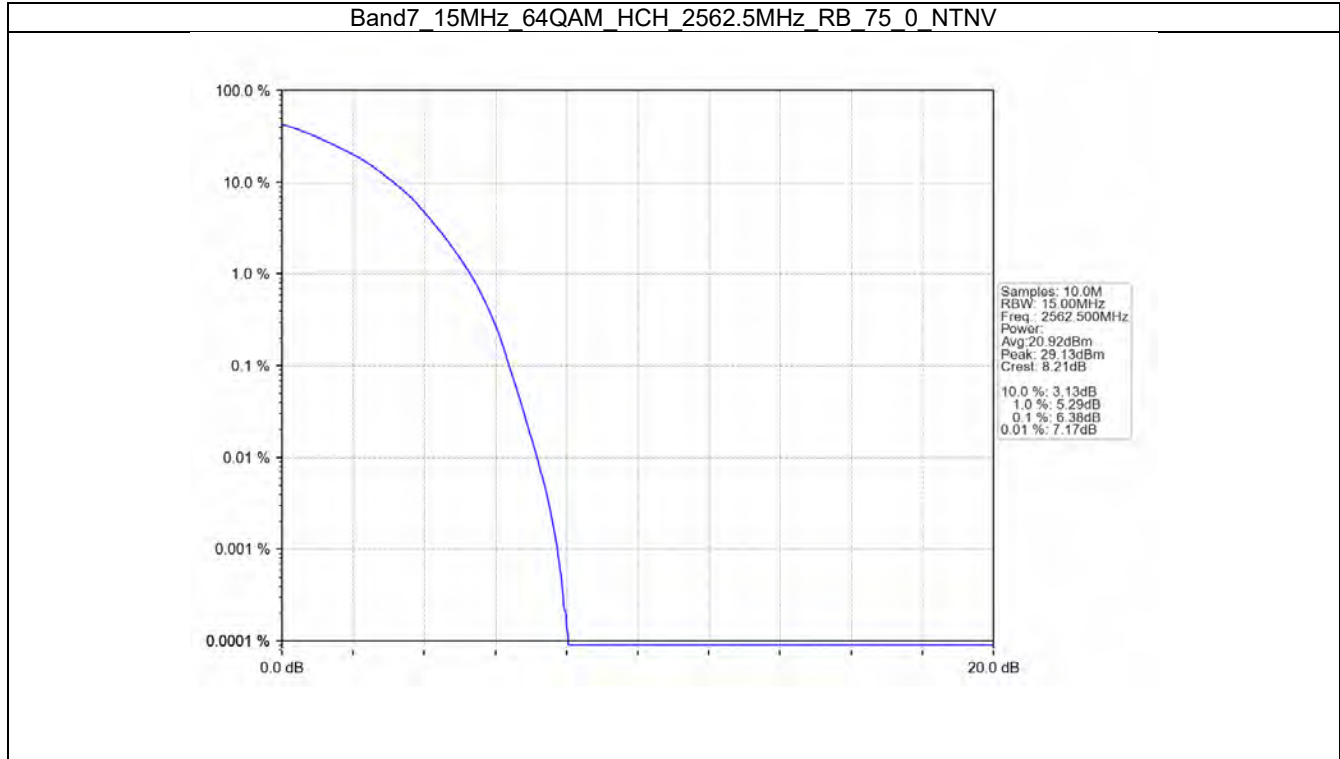
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## 4.4 B7\_20MHz

### 4.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.47	<=13	Pass
	2535	100	0	5.47	<=13	Pass
	2560	100	0	5.46	<=13	Pass
16QAM	2510	100	0	6.34	<=13	Pass
	2535	100	0	6.38	<=13	Pass
	2560	100	0	6.33	<=13	Pass
64QAM	2510	100	0	6.41	<=13	Pass
	2535	100	0	6.41	<=13	Pass
	2560	100	0	6.38	<=13	Pass



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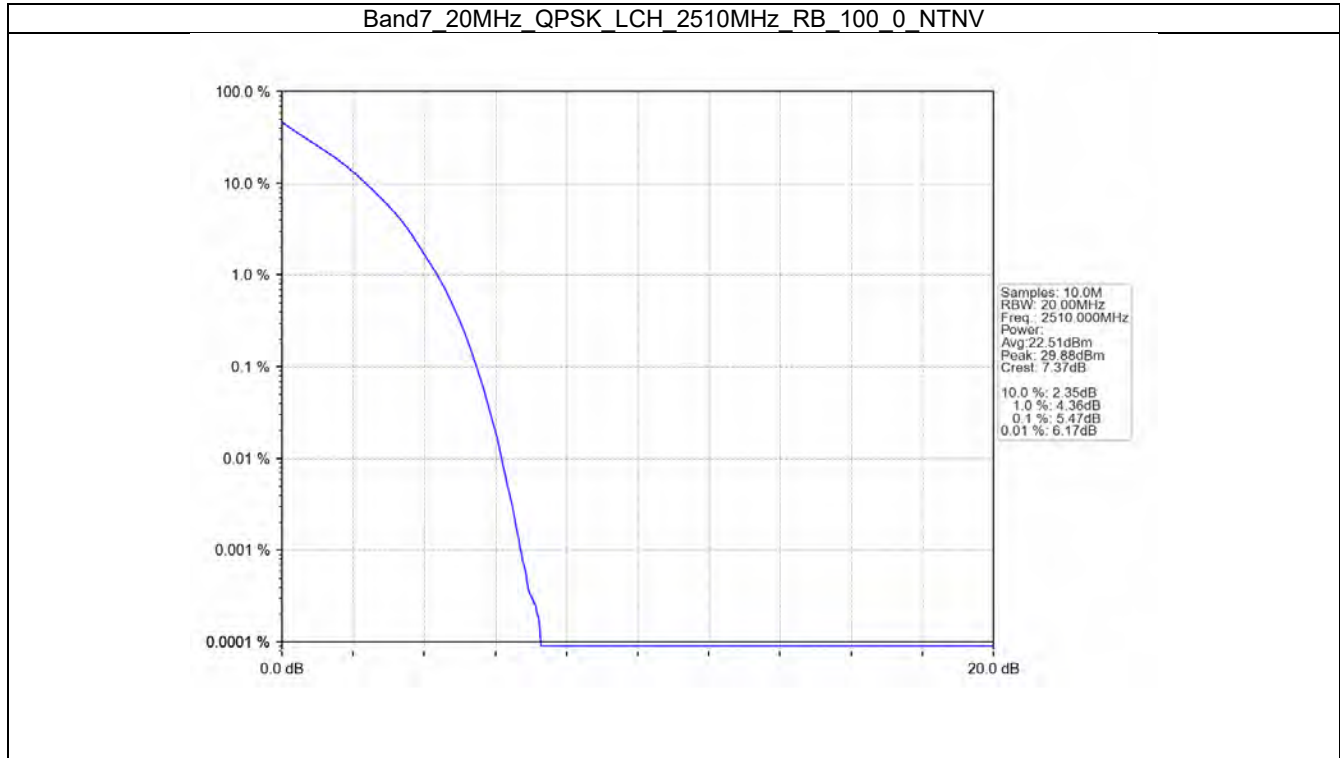
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4.4.2 Test Graph



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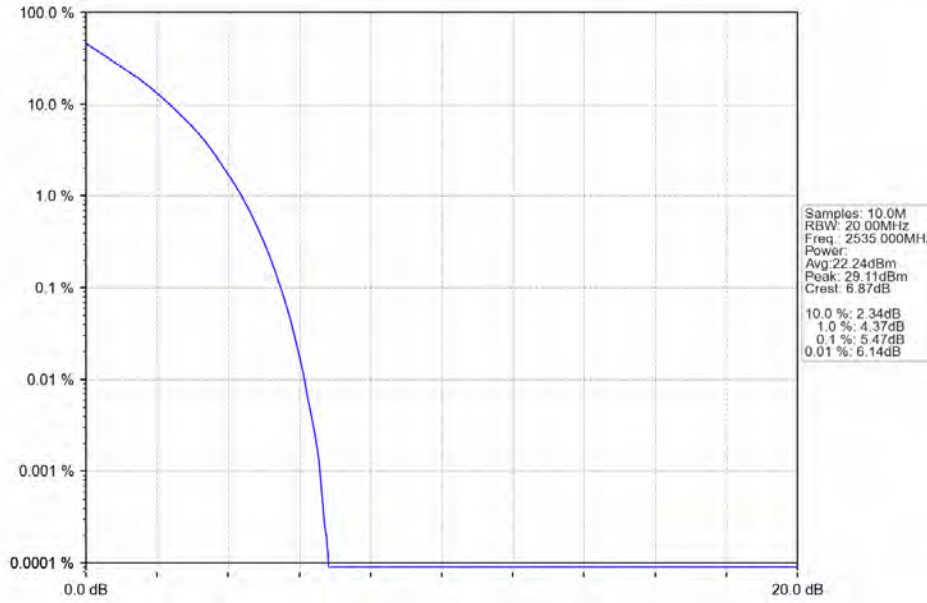
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Band7\_20MHz\_QPSK\_MCH\_2535MHz\_RB\_100\_0\_NTNV



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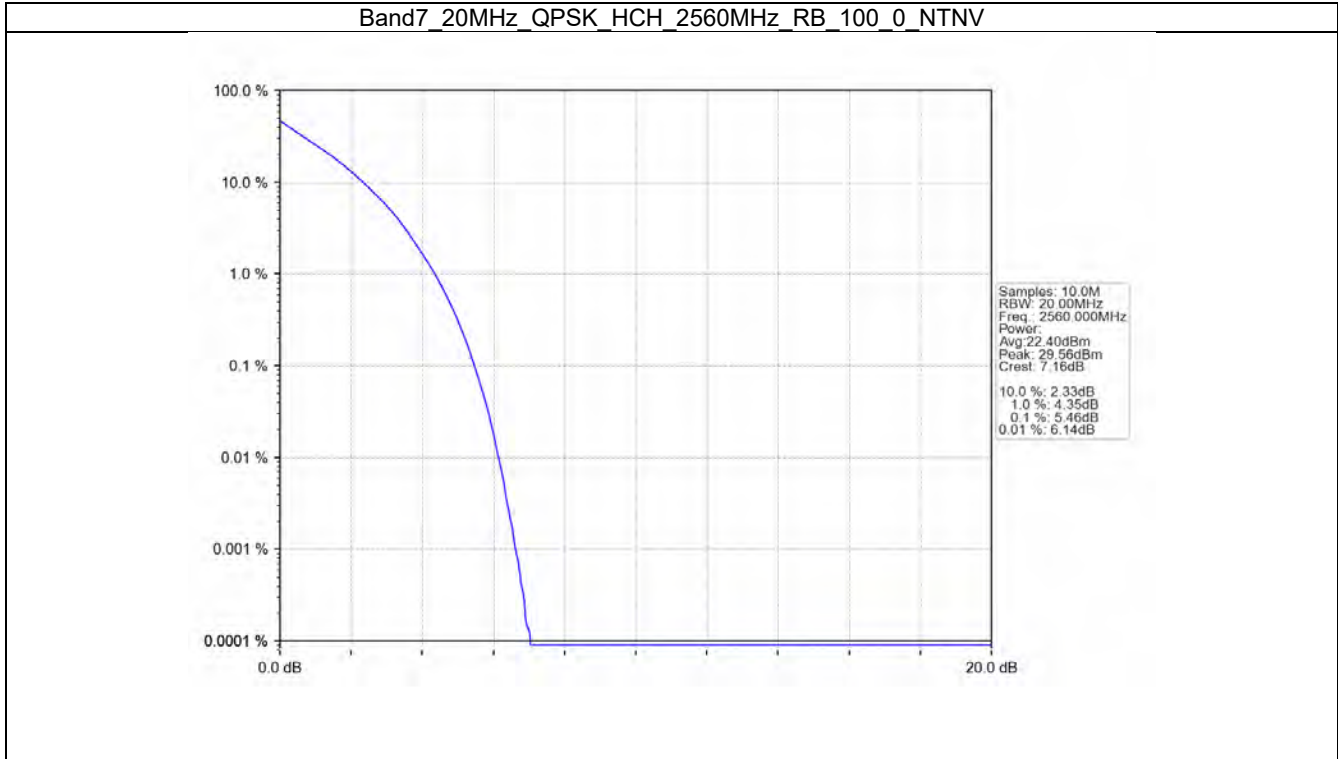
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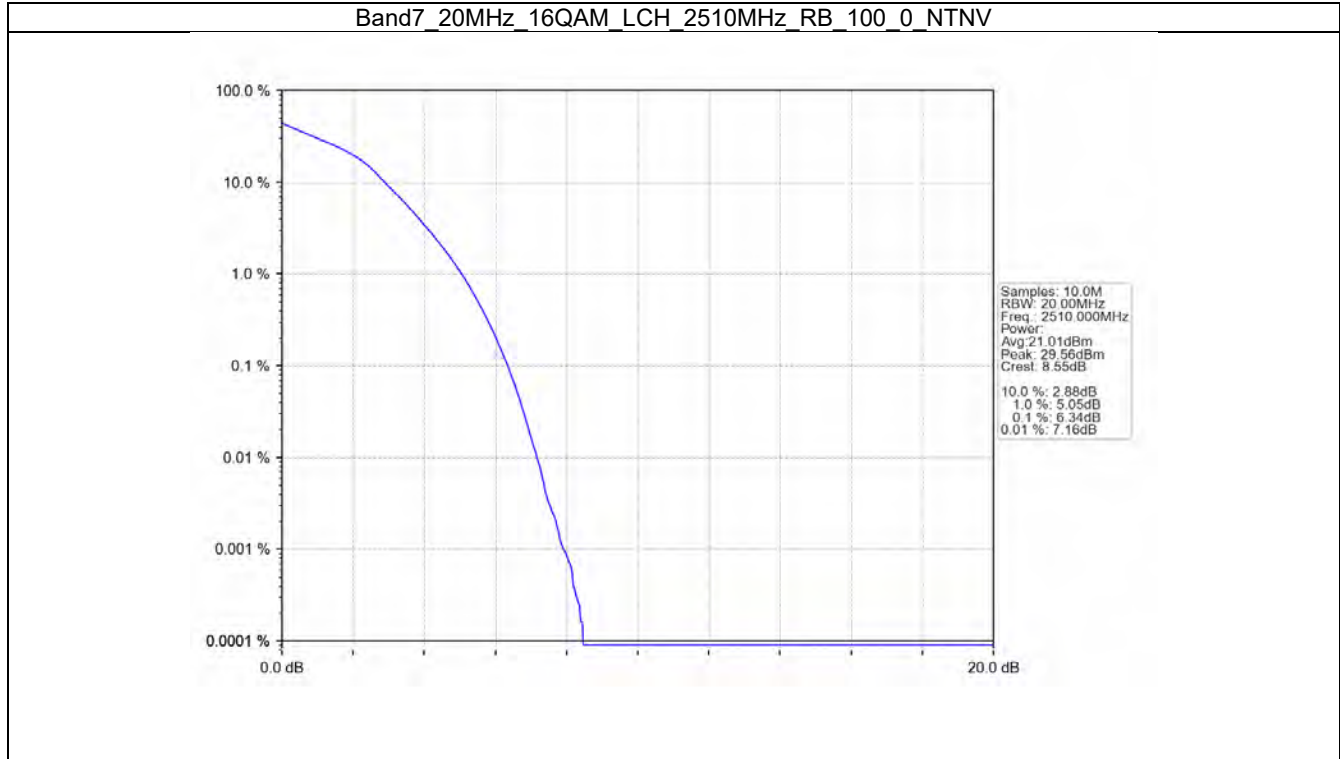
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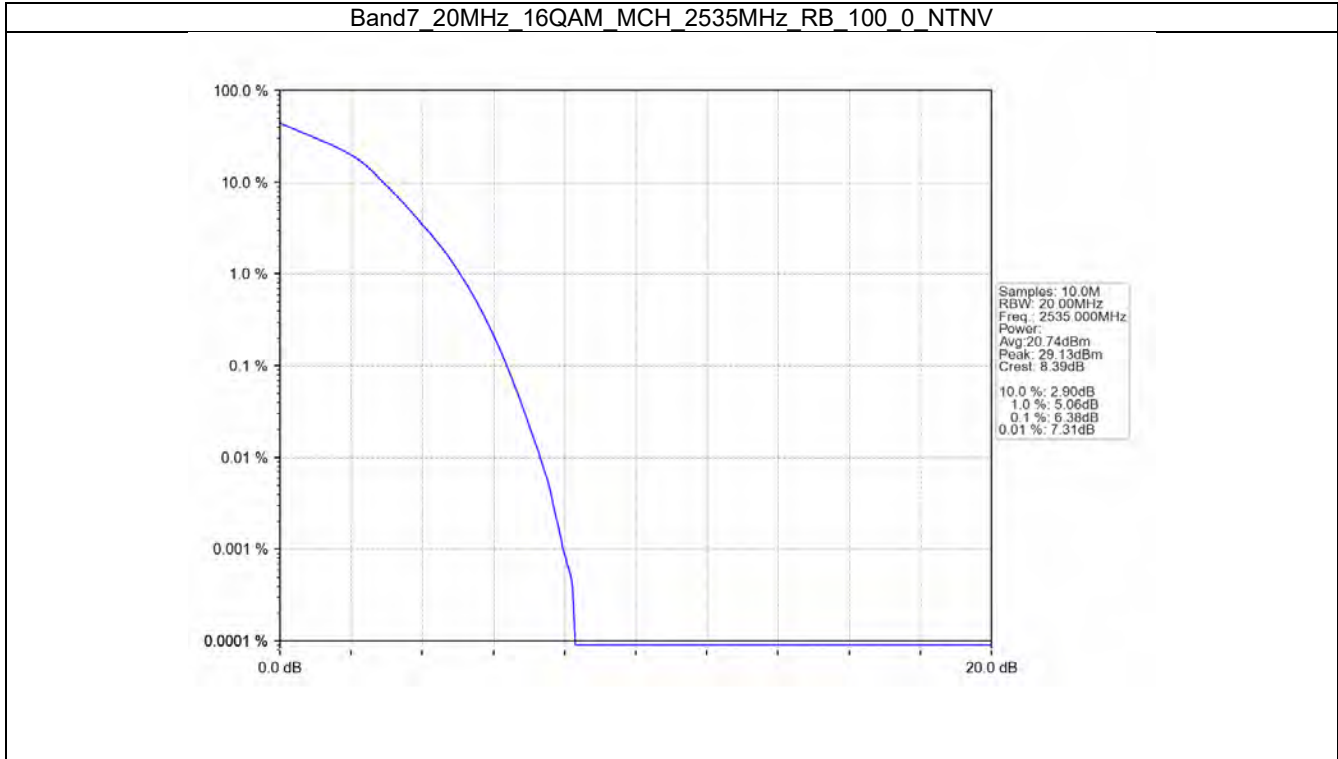
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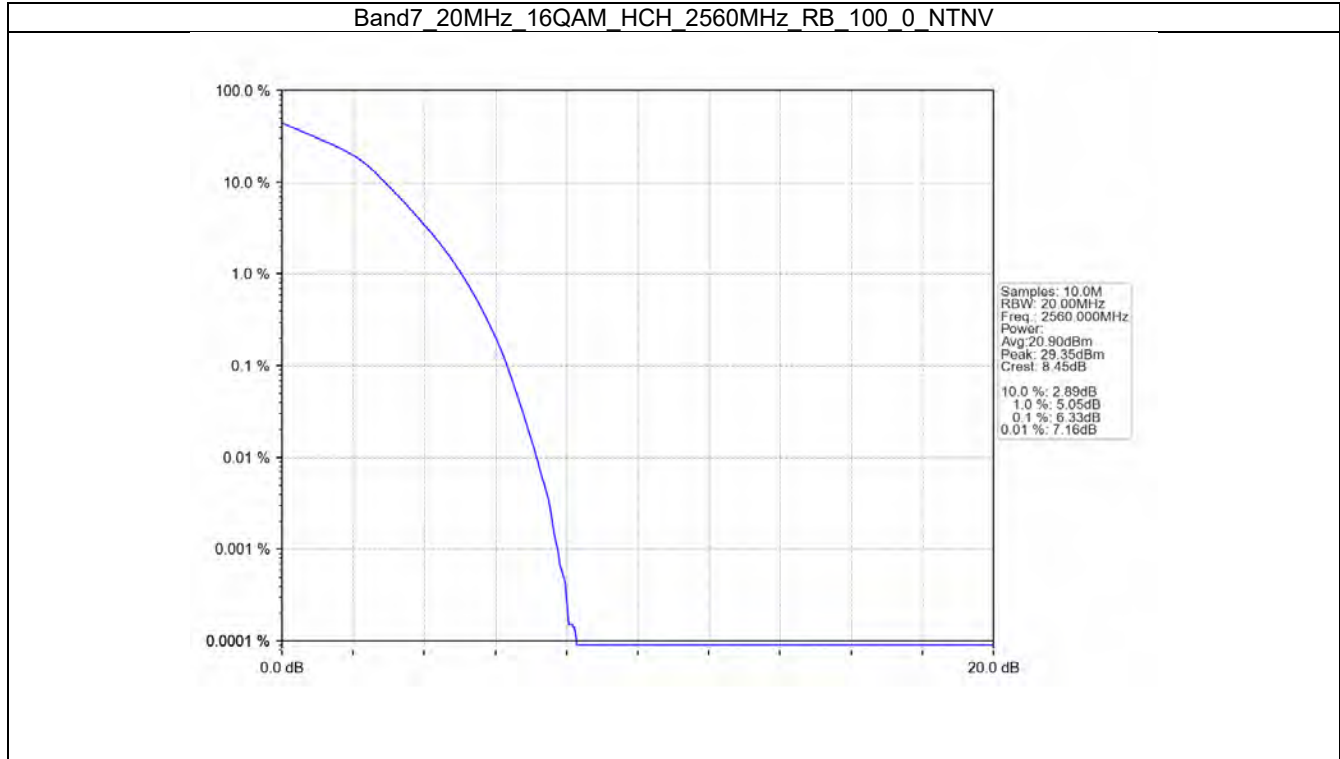
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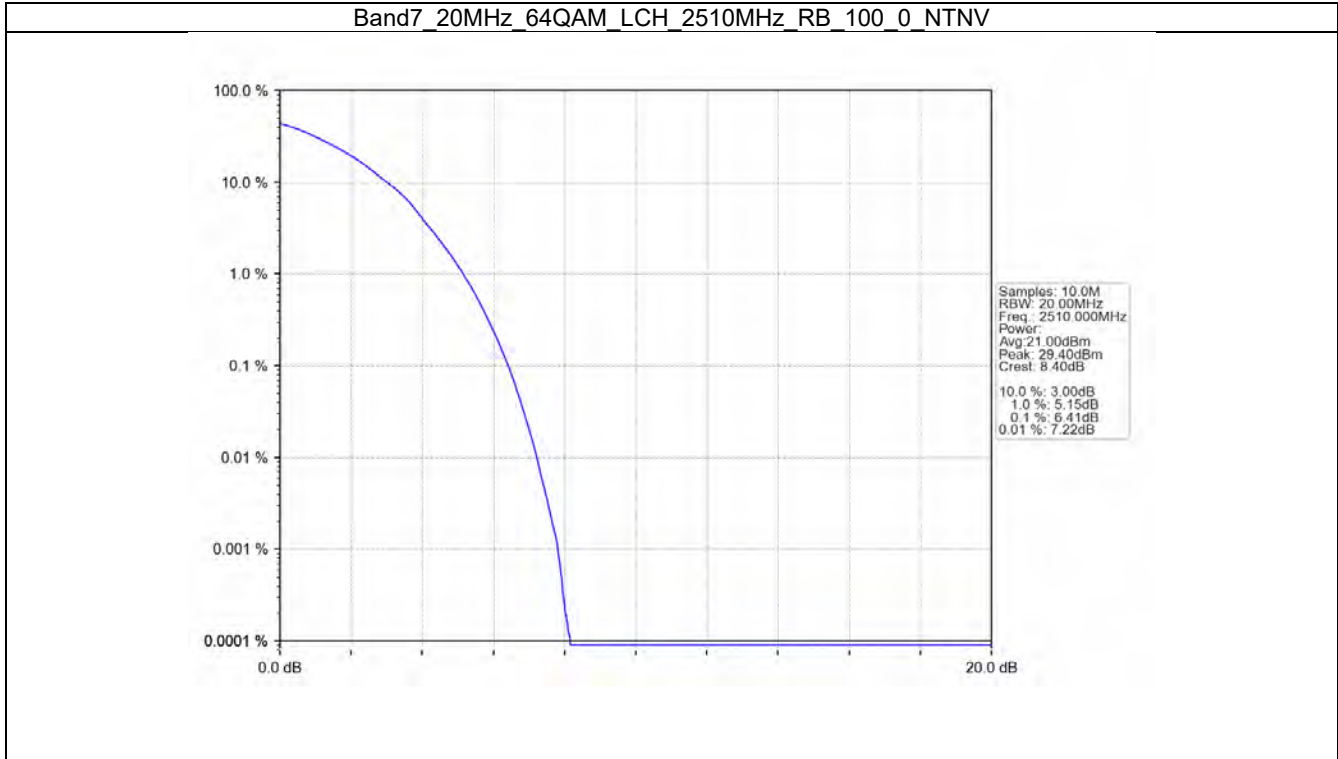
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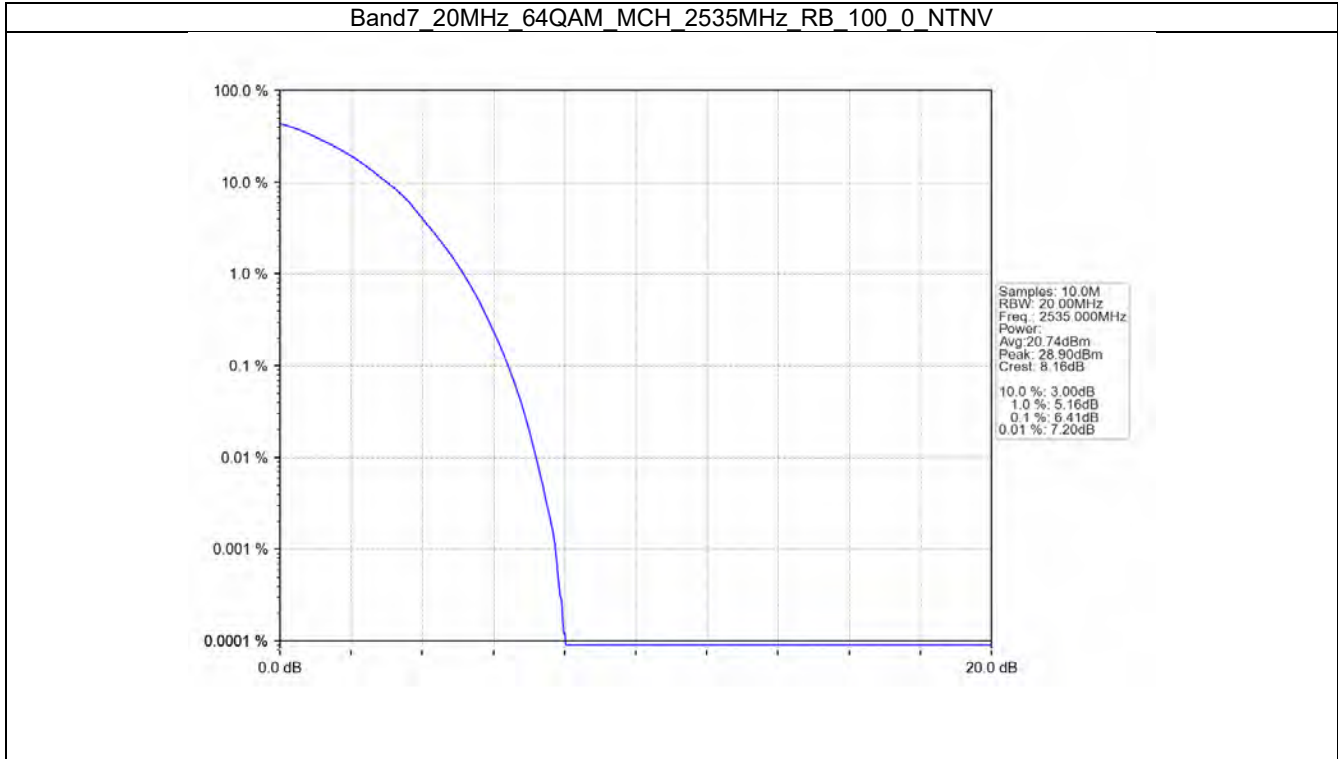
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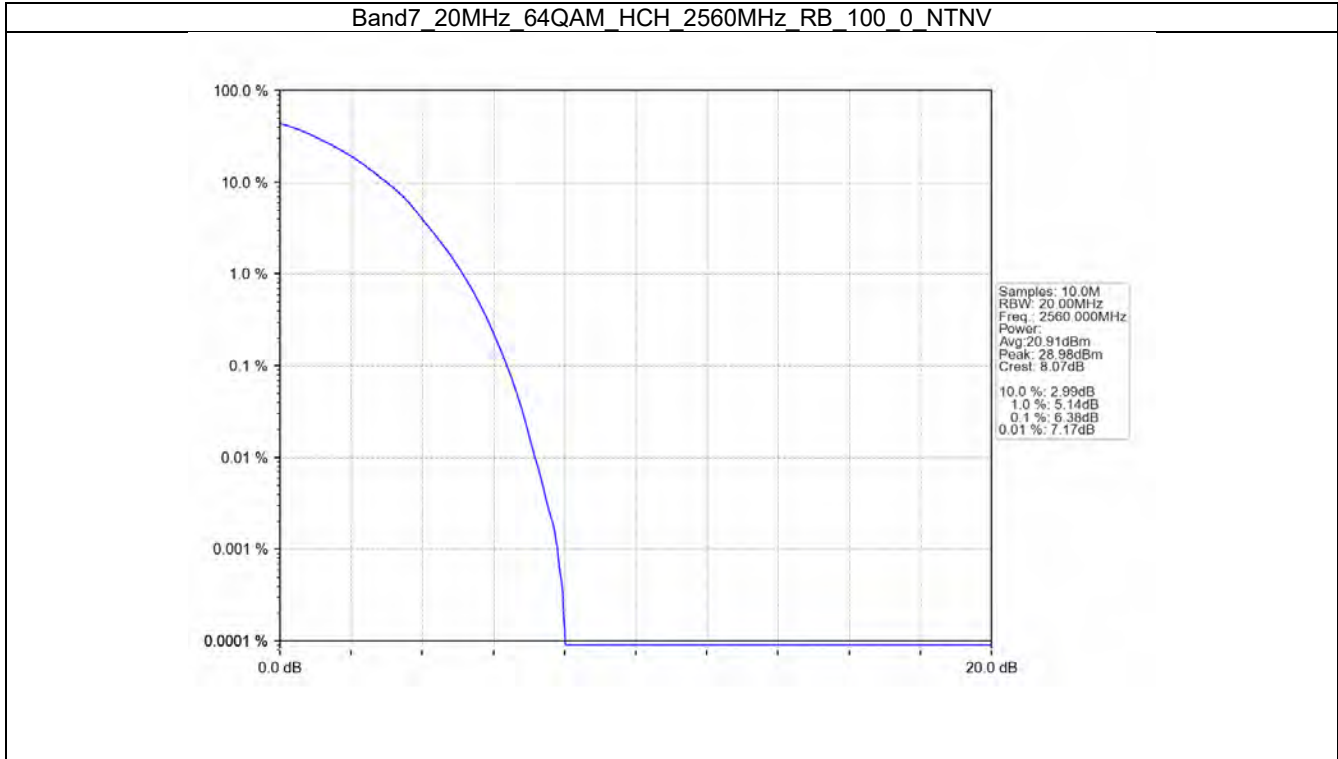
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## 5. Spurious Emission & Band Edges

### 5.1 B7\_5MHz

#### 5.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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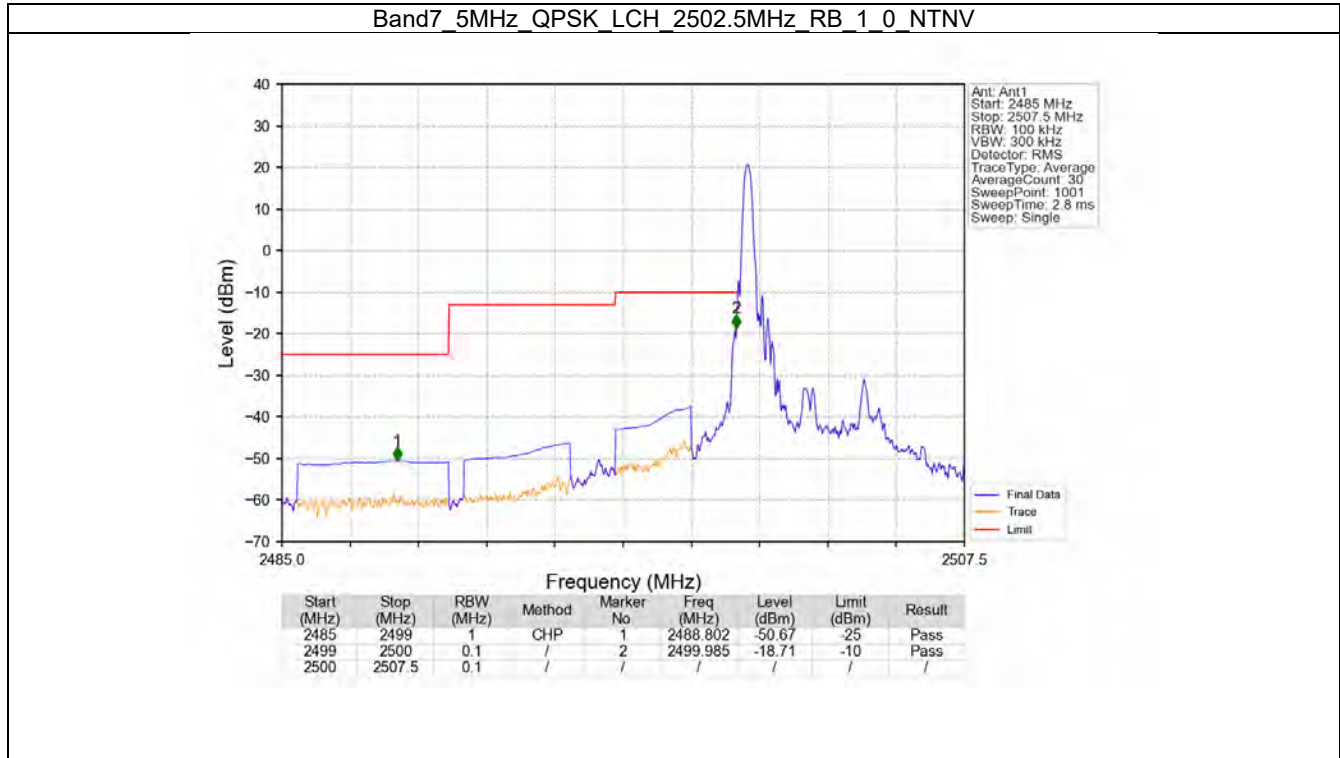




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5.1.2 Test Graph



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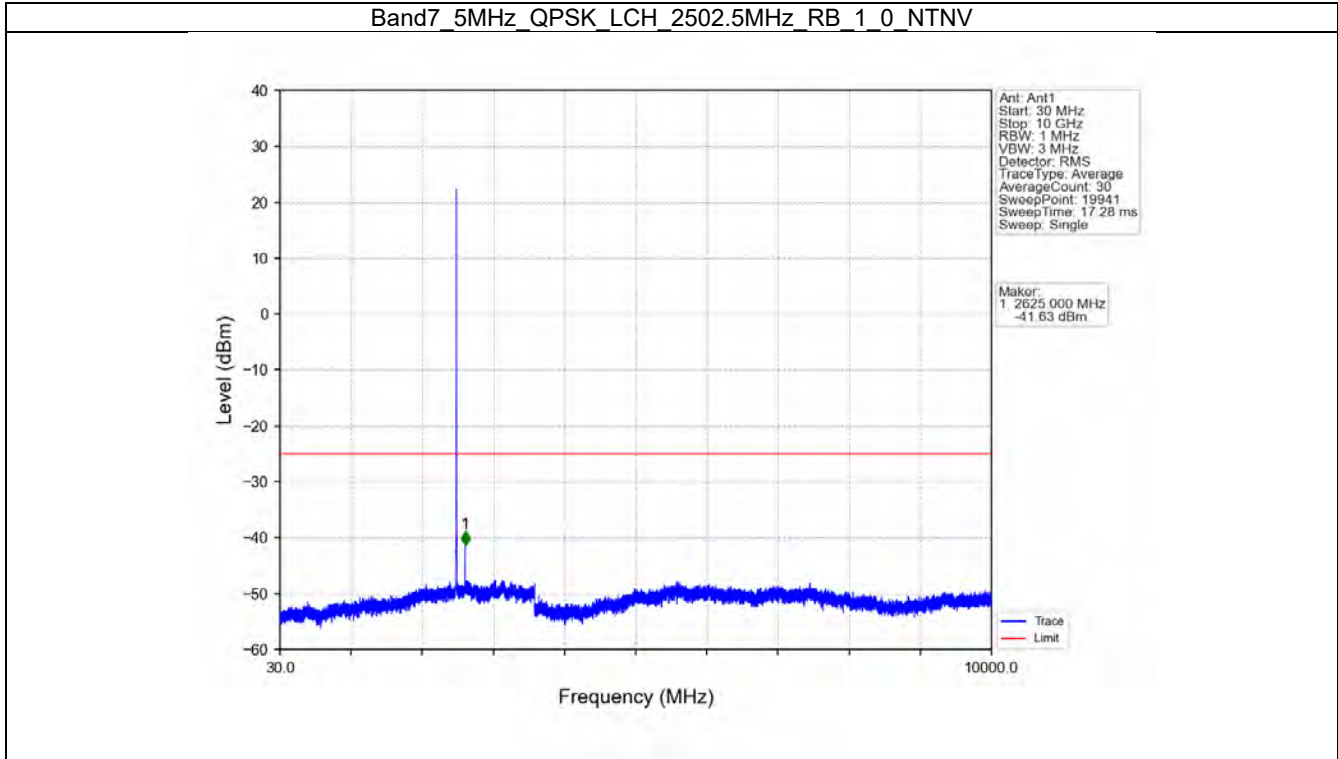
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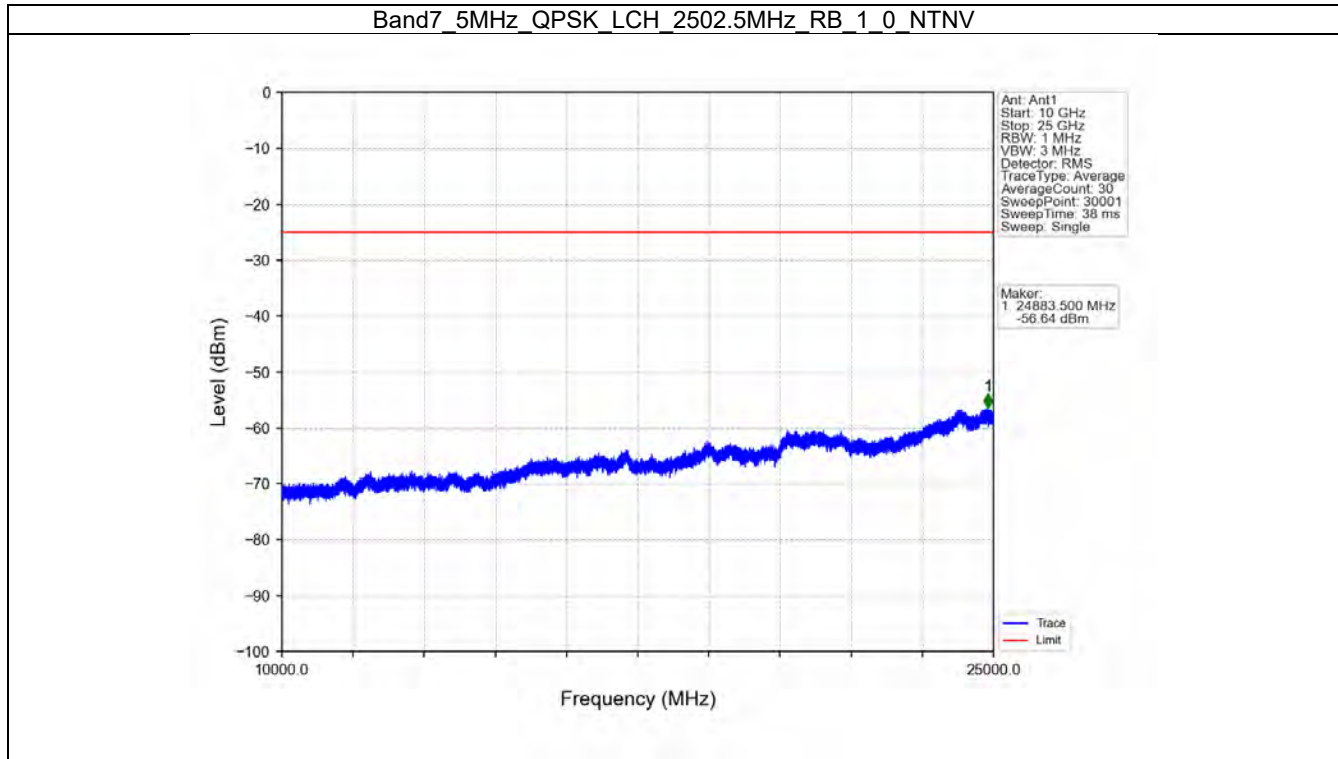


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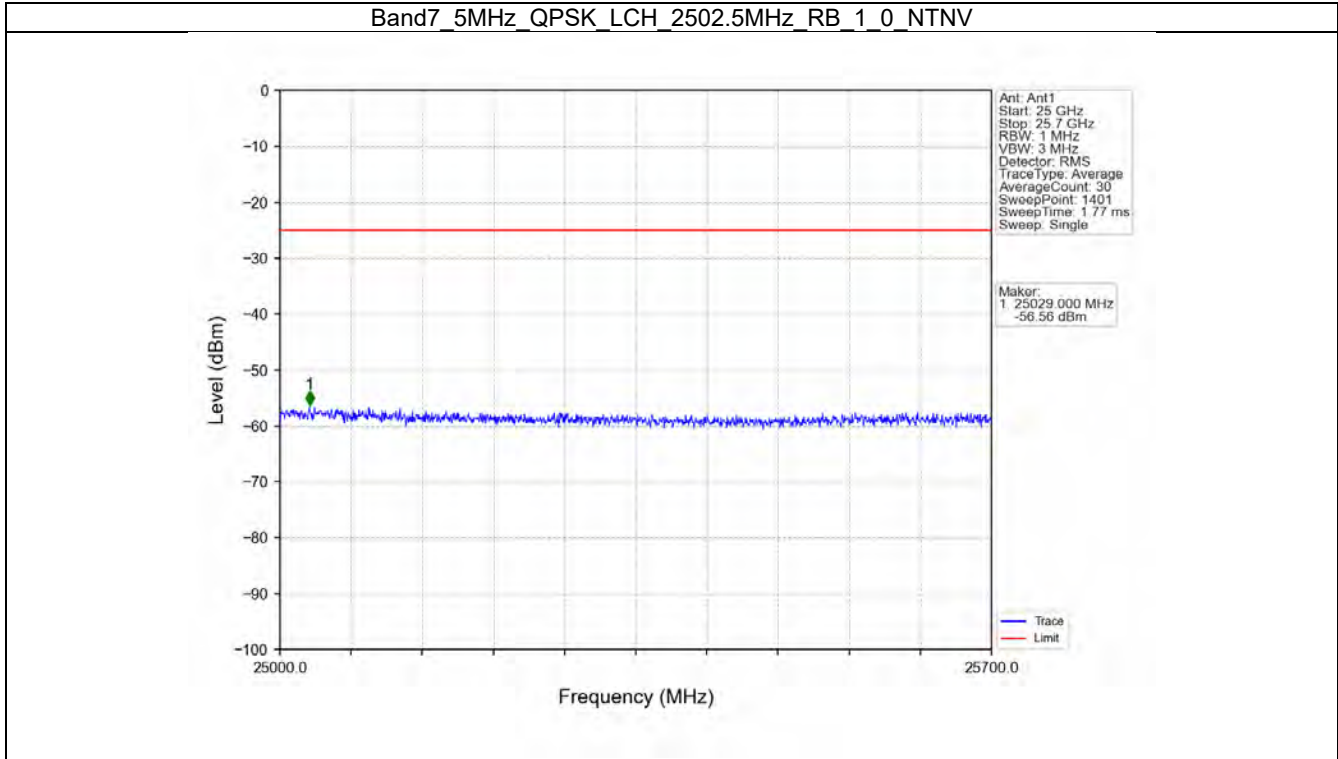
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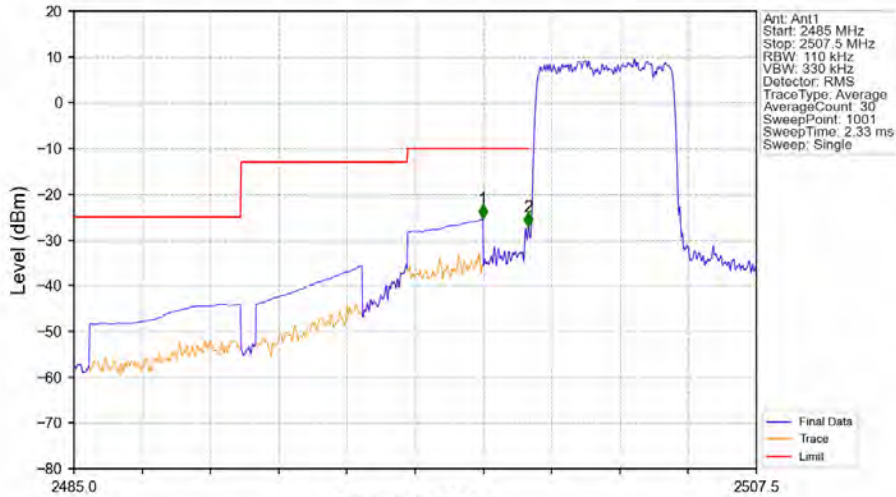
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Band7\_5MHz\_QPSK\_LCH\_2502.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	0.11	CHP	1	2498.477	-25.38	-10	Pass
2499	2500	0.11	/	2	2499.985	-27.07	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/



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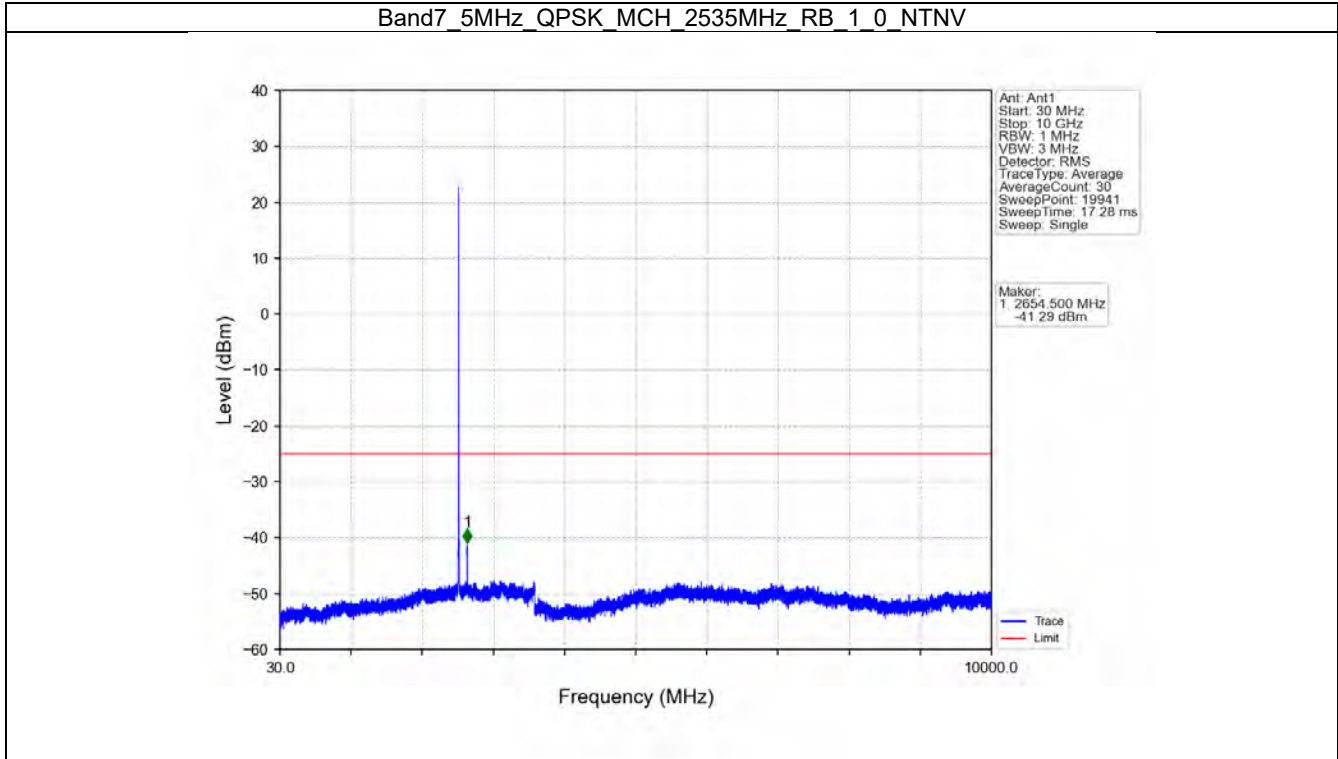
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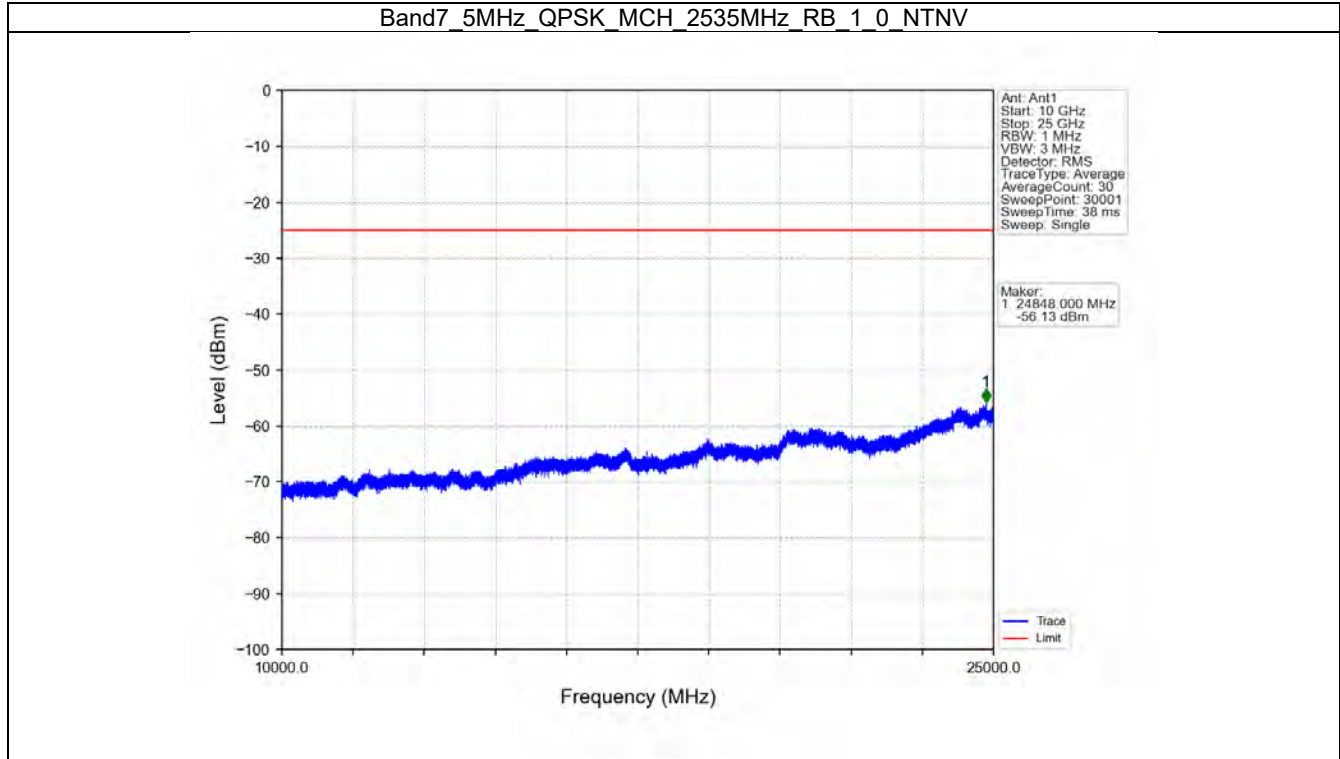
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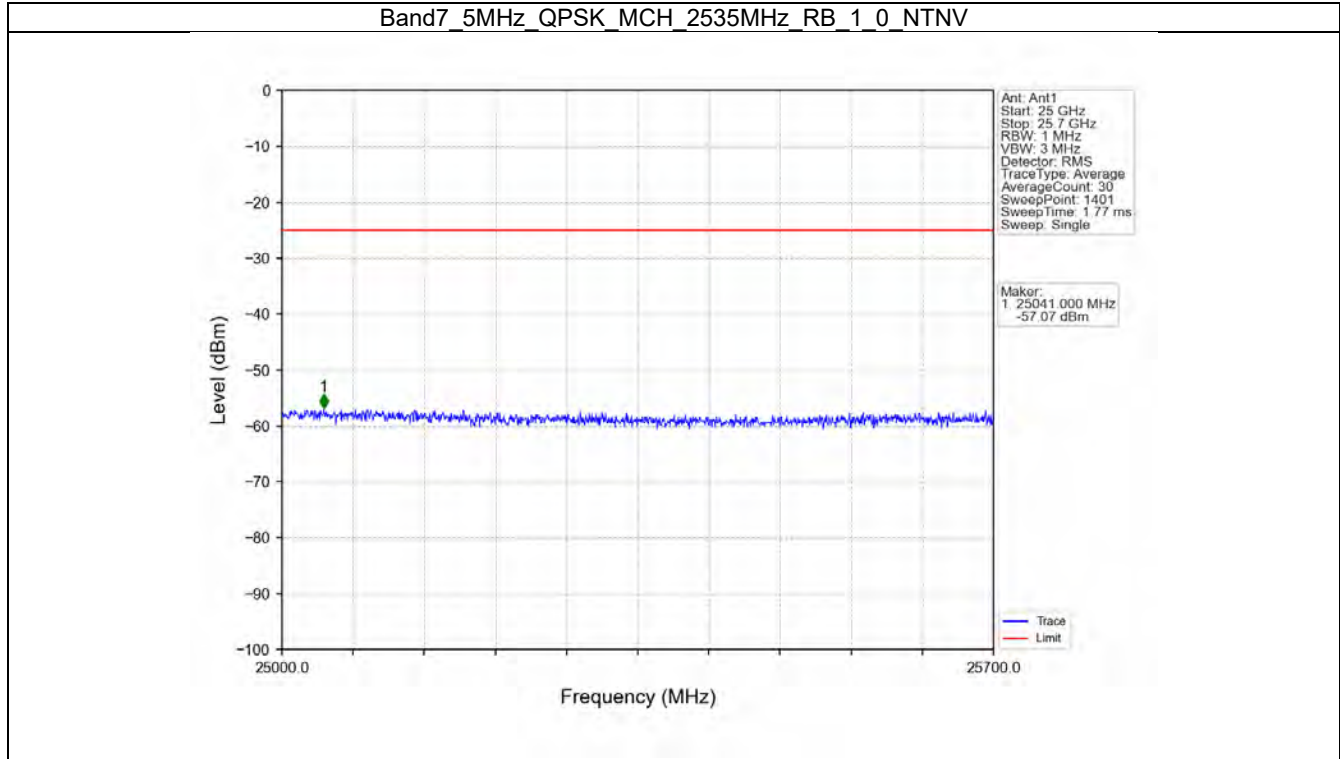


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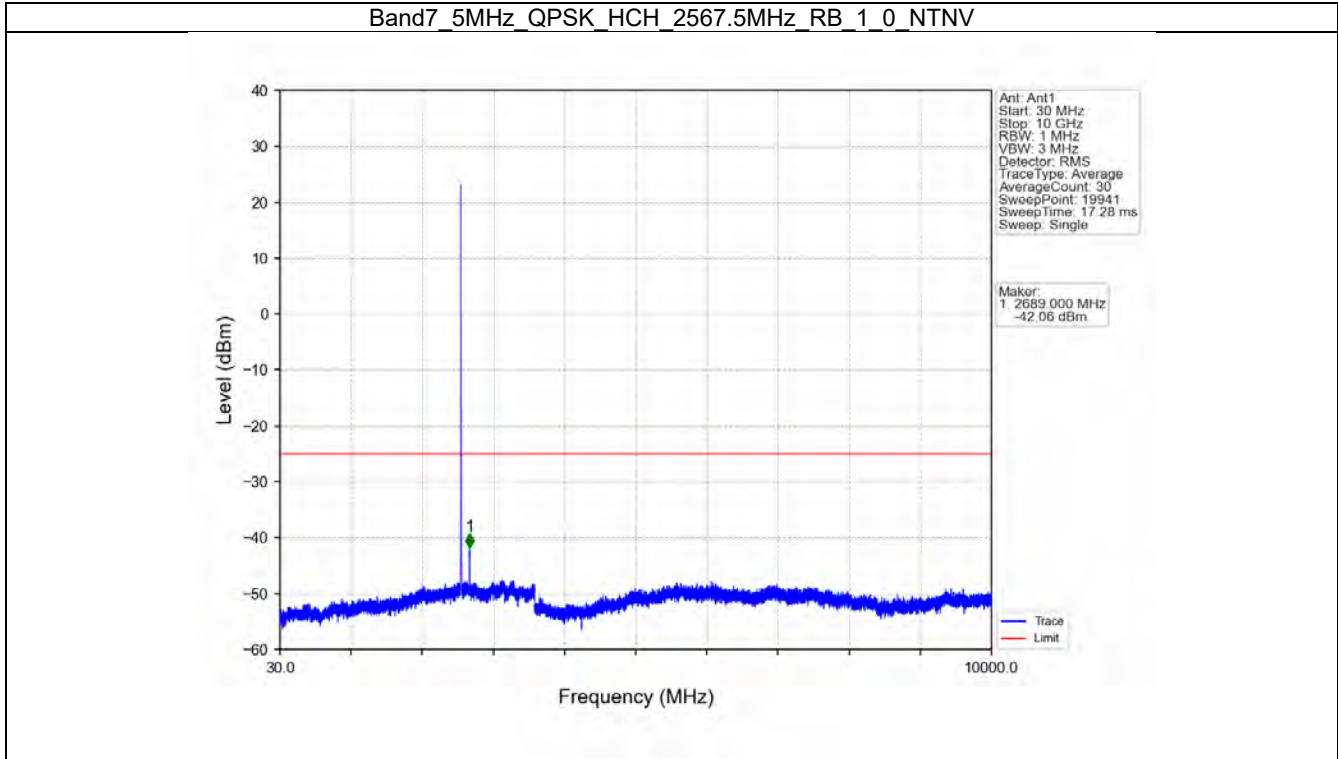
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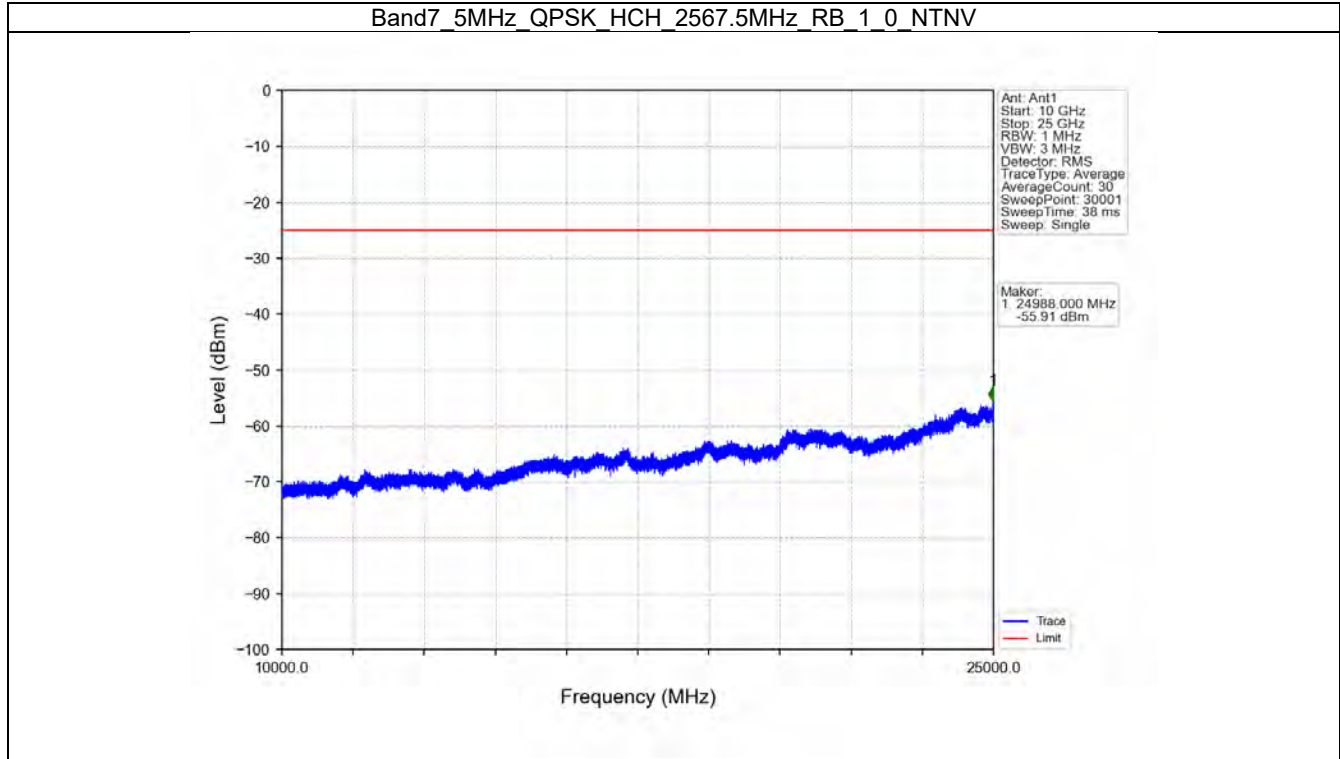
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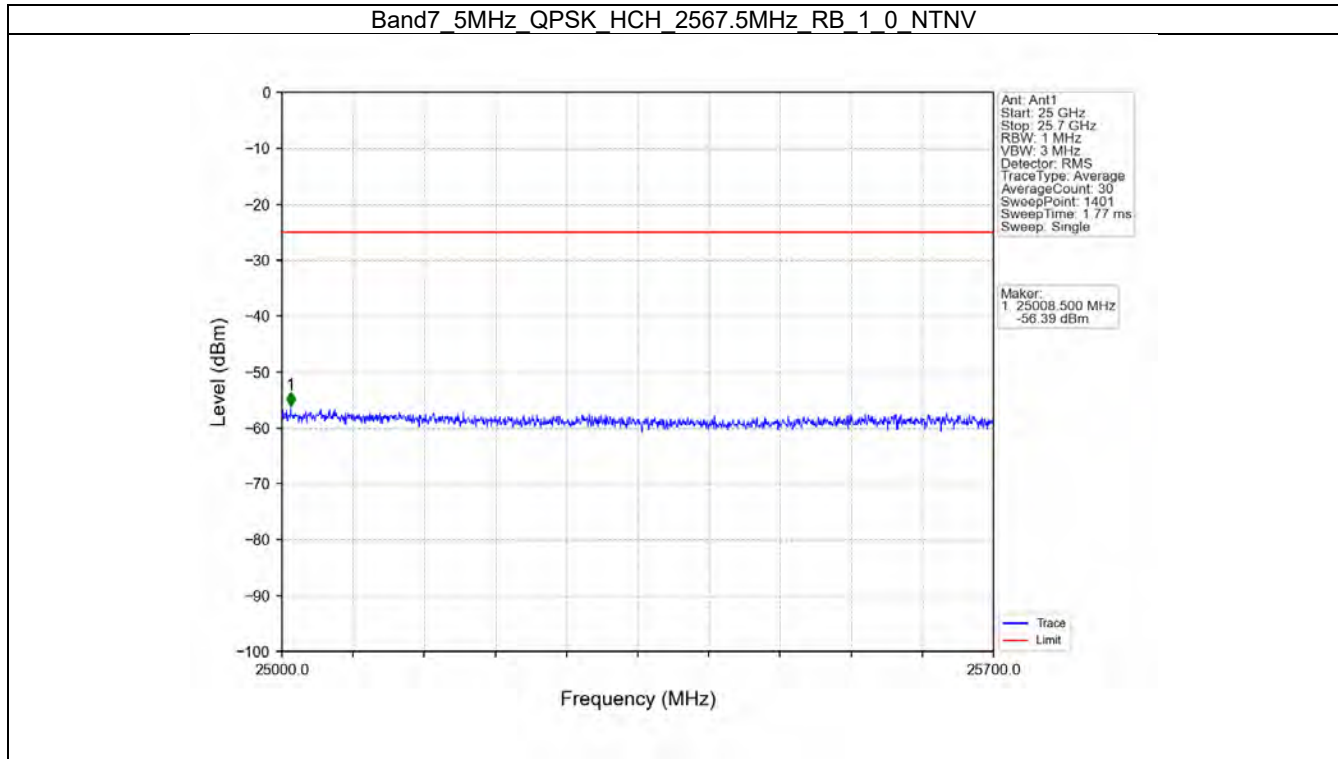


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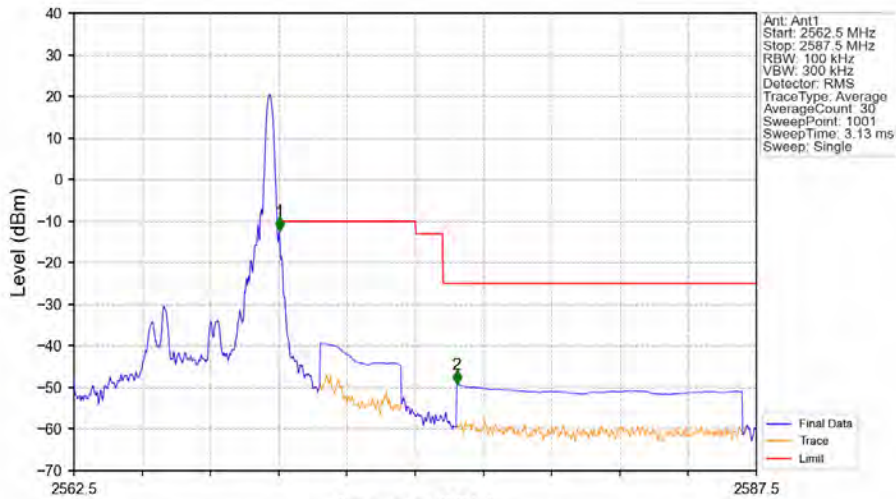
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	1	2570.025	-12.39	-10	Pass
2570	2571	0.1	/	1	2570.025	-12.39	-10	Pass
2571	2587.5	1	CHP	2	2576.525	-49.19	-25	Pass



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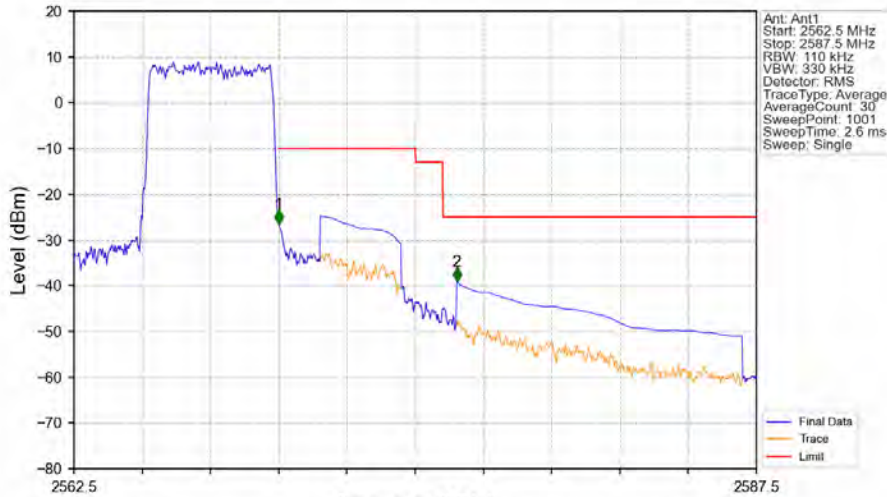
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Band7\_5MHz\_QPSK\_HCH\_2567.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.11	/	1	2570.000	-26.52	-10	Pass
2570	2571	0.11	1	2	2576.525	-39.04	-25	Pass



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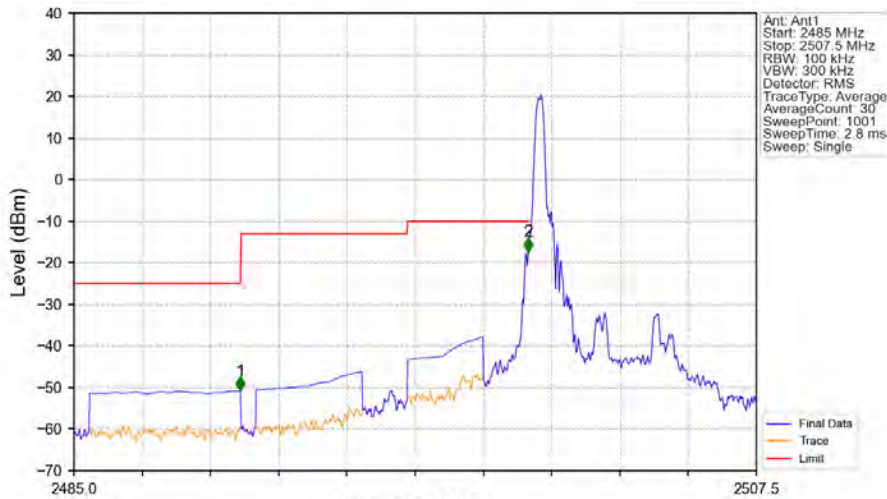
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Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2480.490	-50.86	-25	Pass
2499	2500	0.1	/	2	2499.985	-17.35	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/



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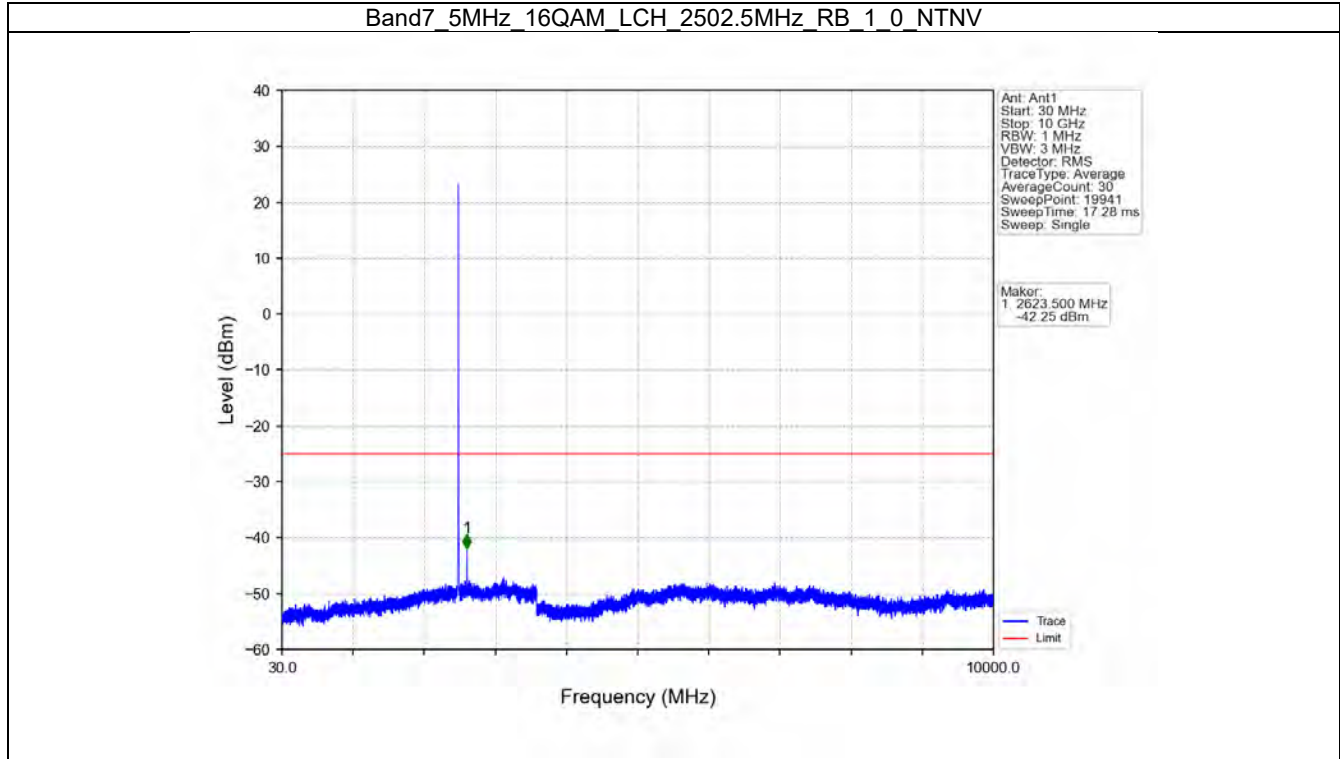


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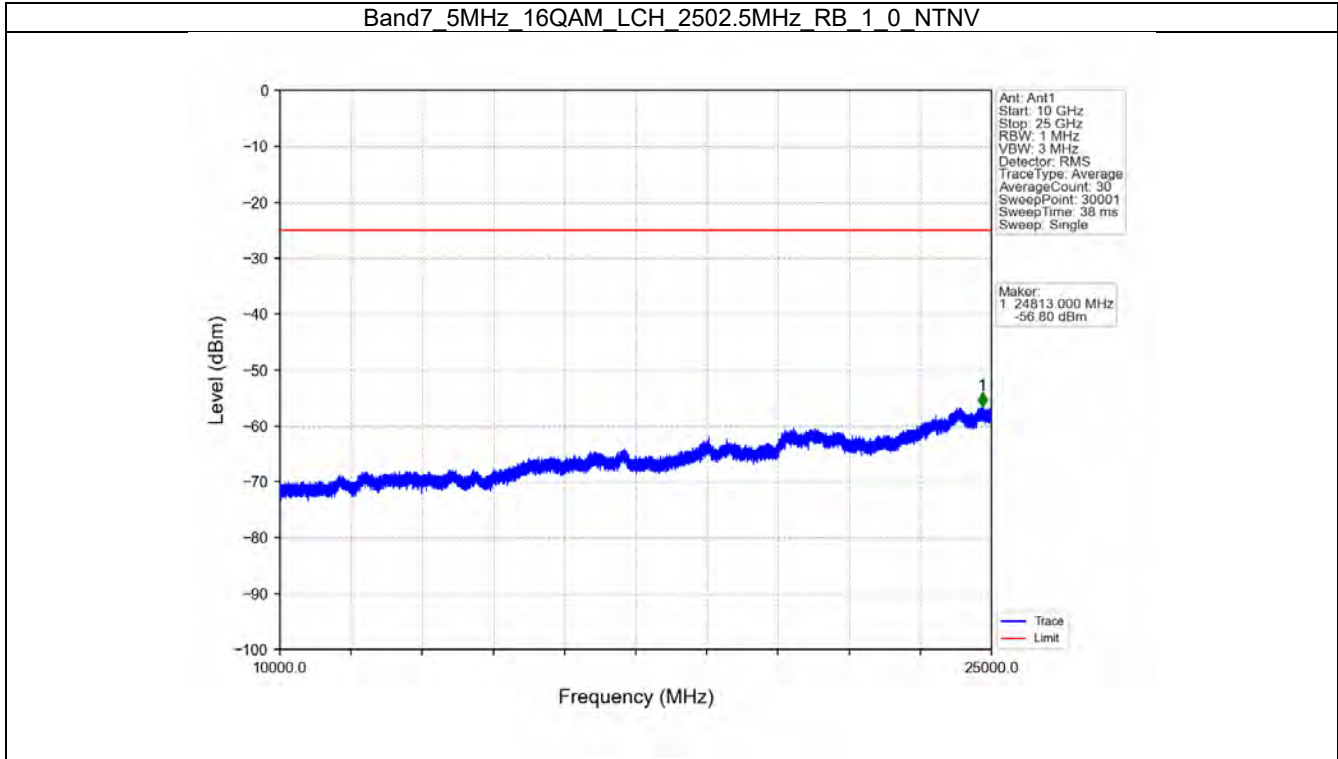
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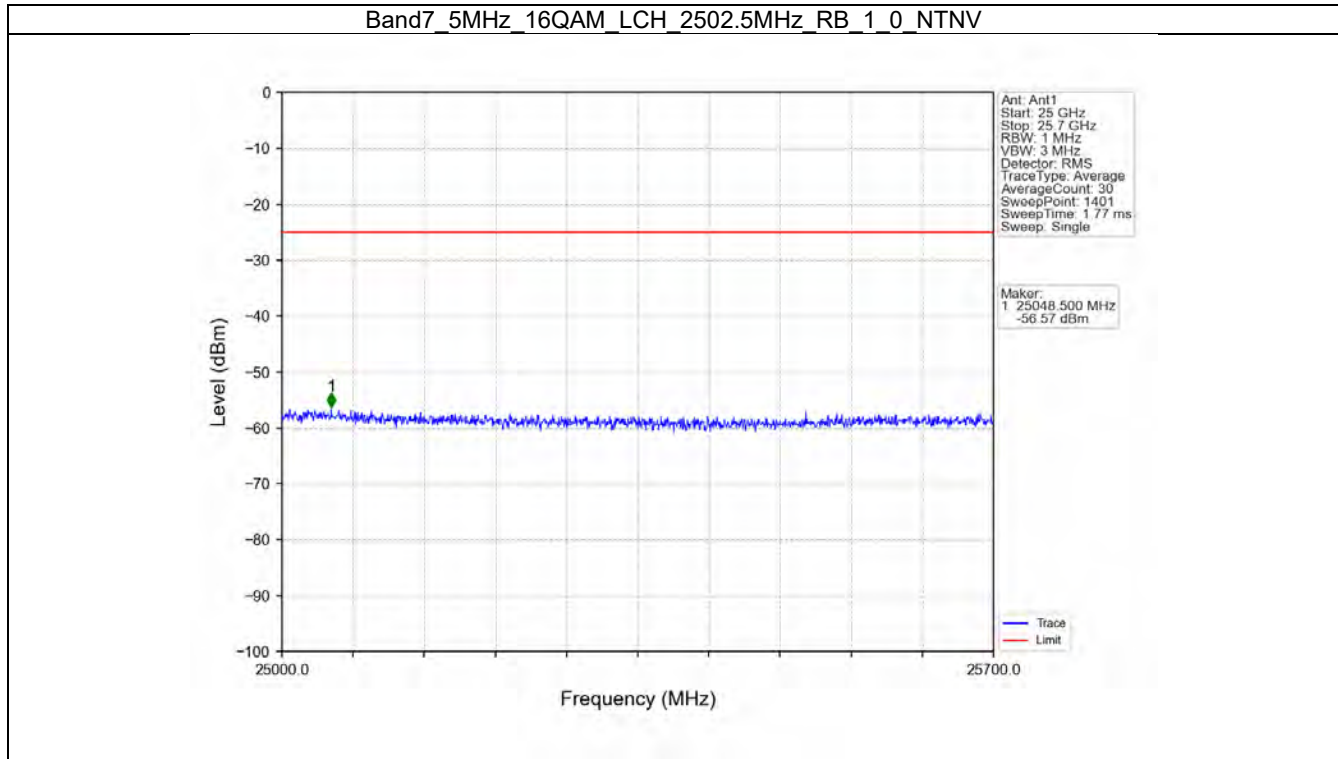


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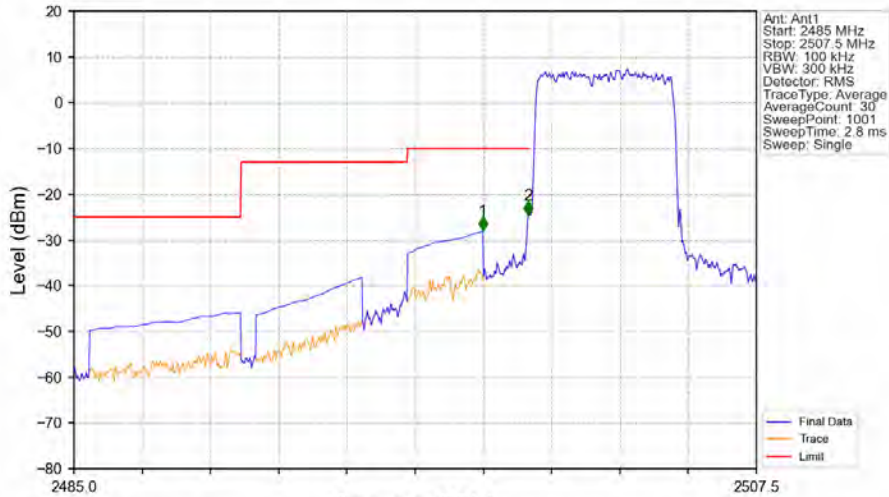
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Band7\_5MHz\_16QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2498.477	-28.00	-10	Pass
2499	2500	0.1	/	2	2499.985	-24.63	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/



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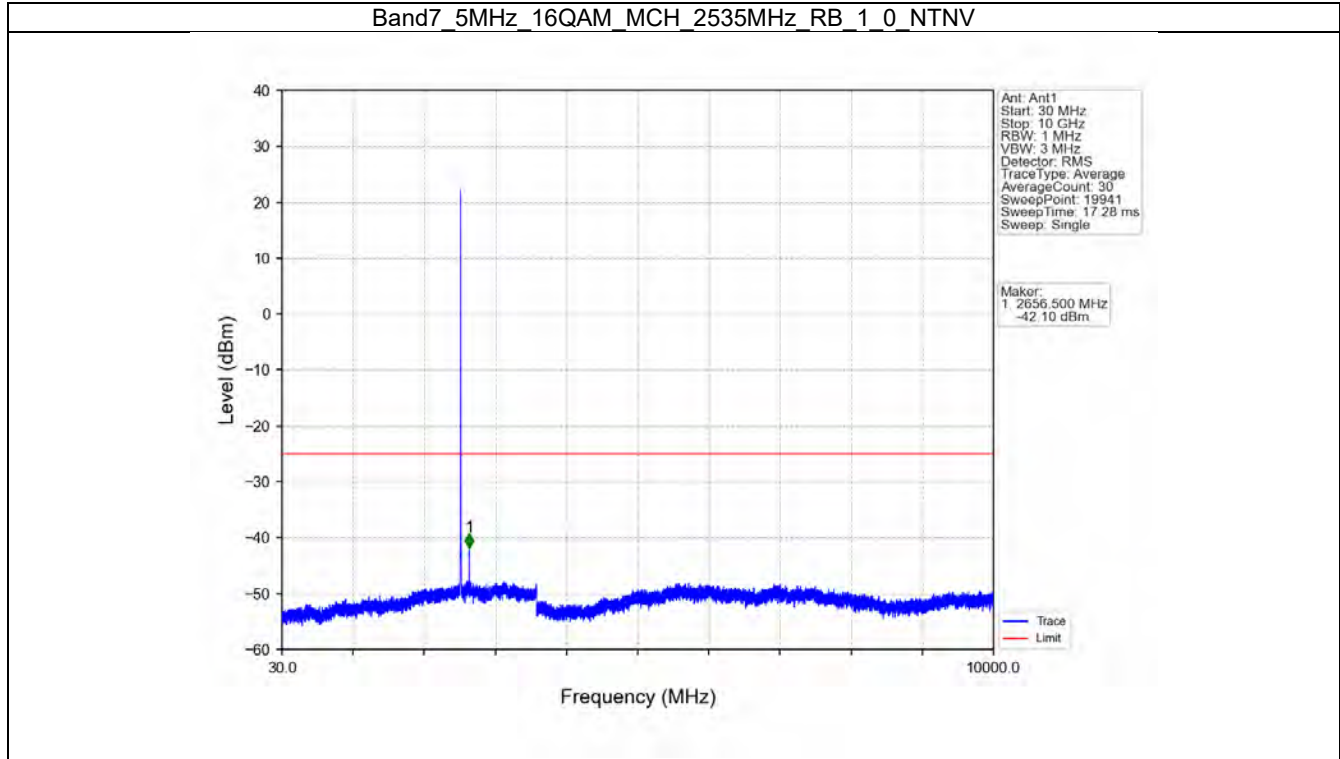
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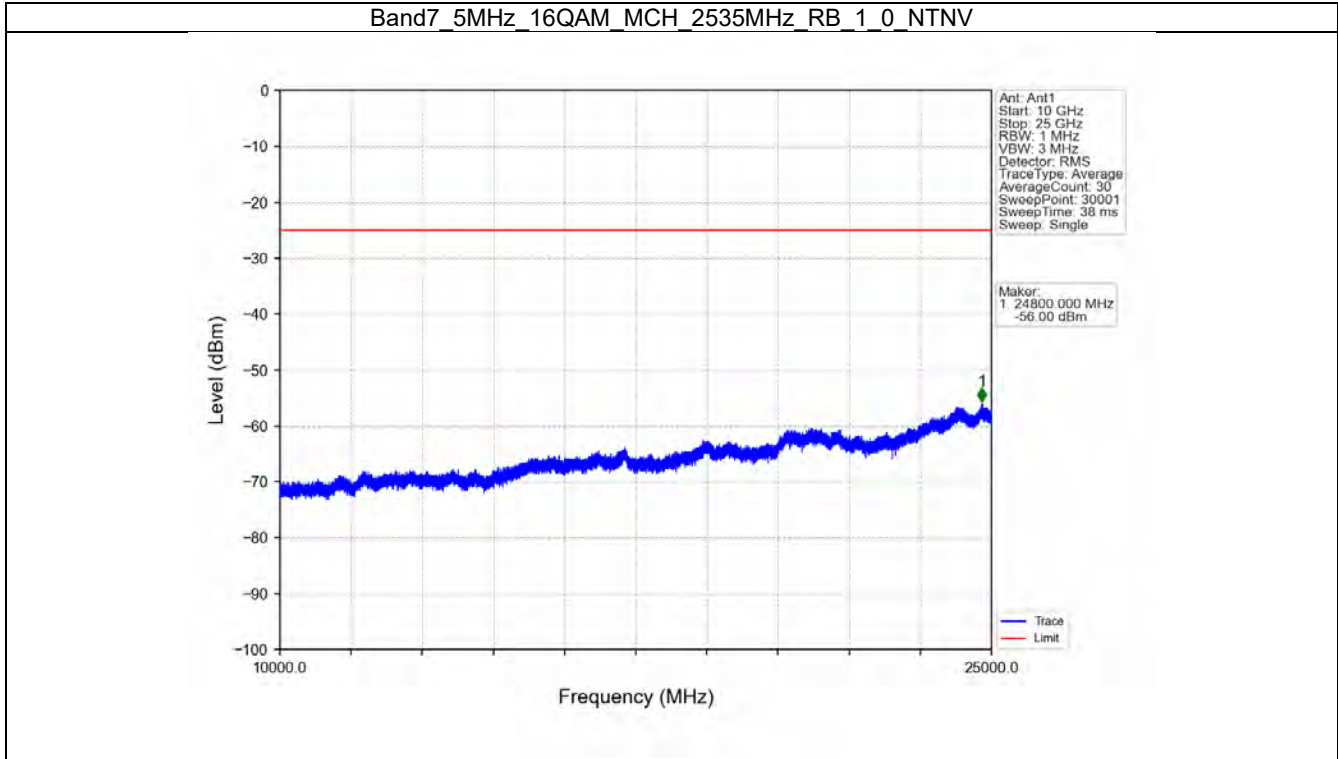
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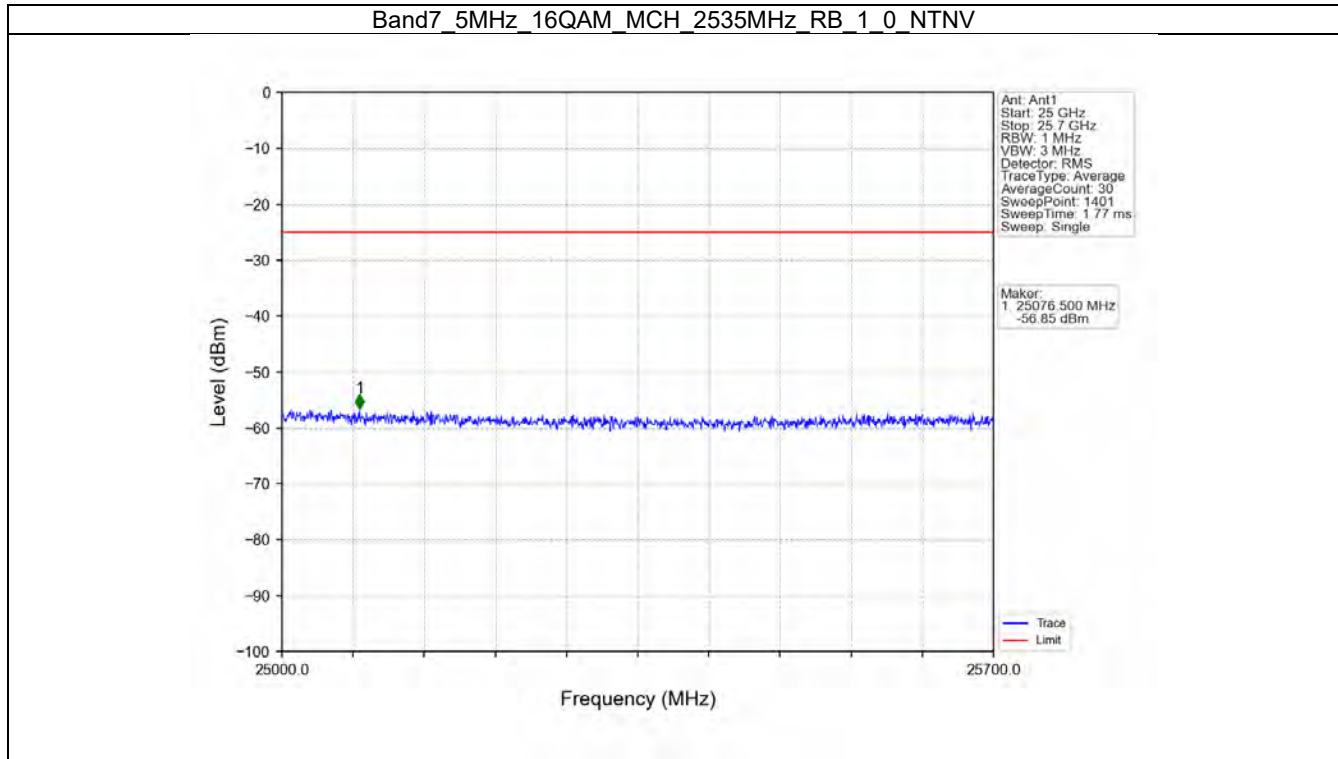


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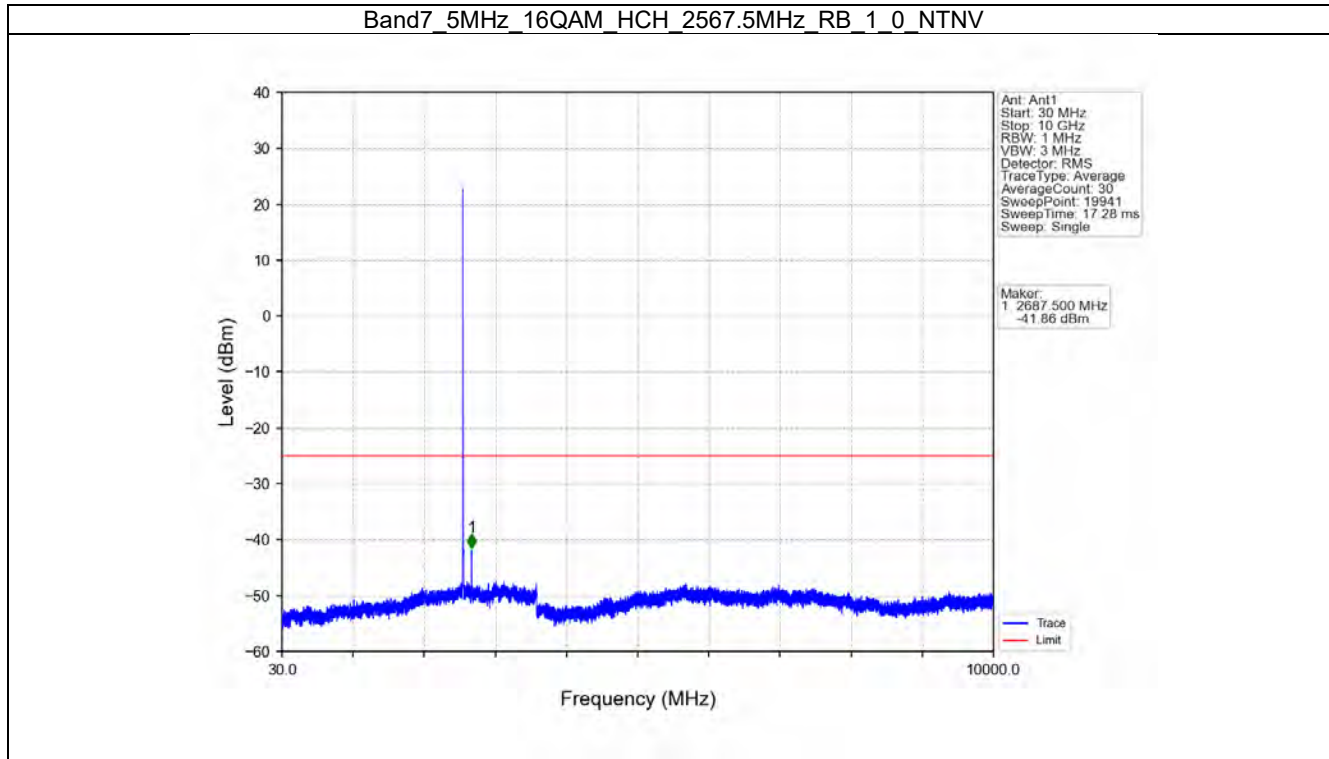


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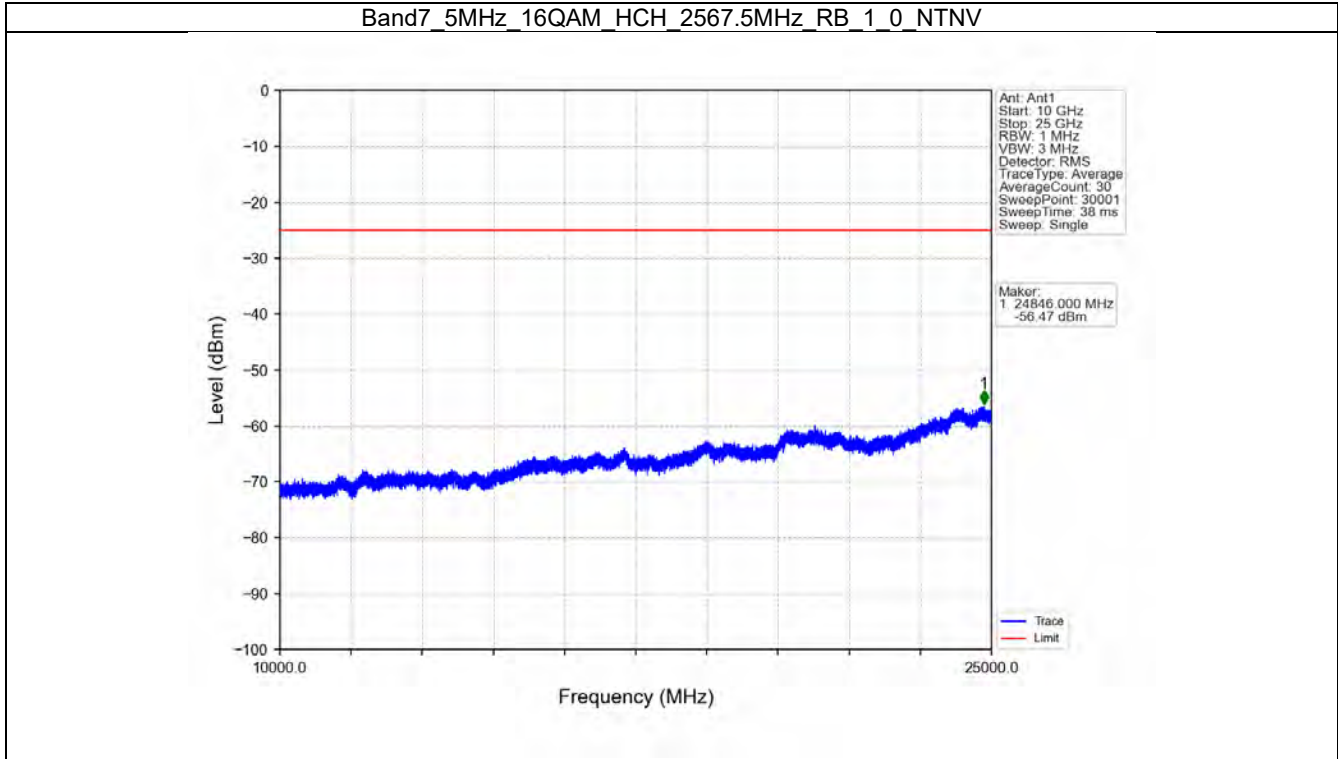
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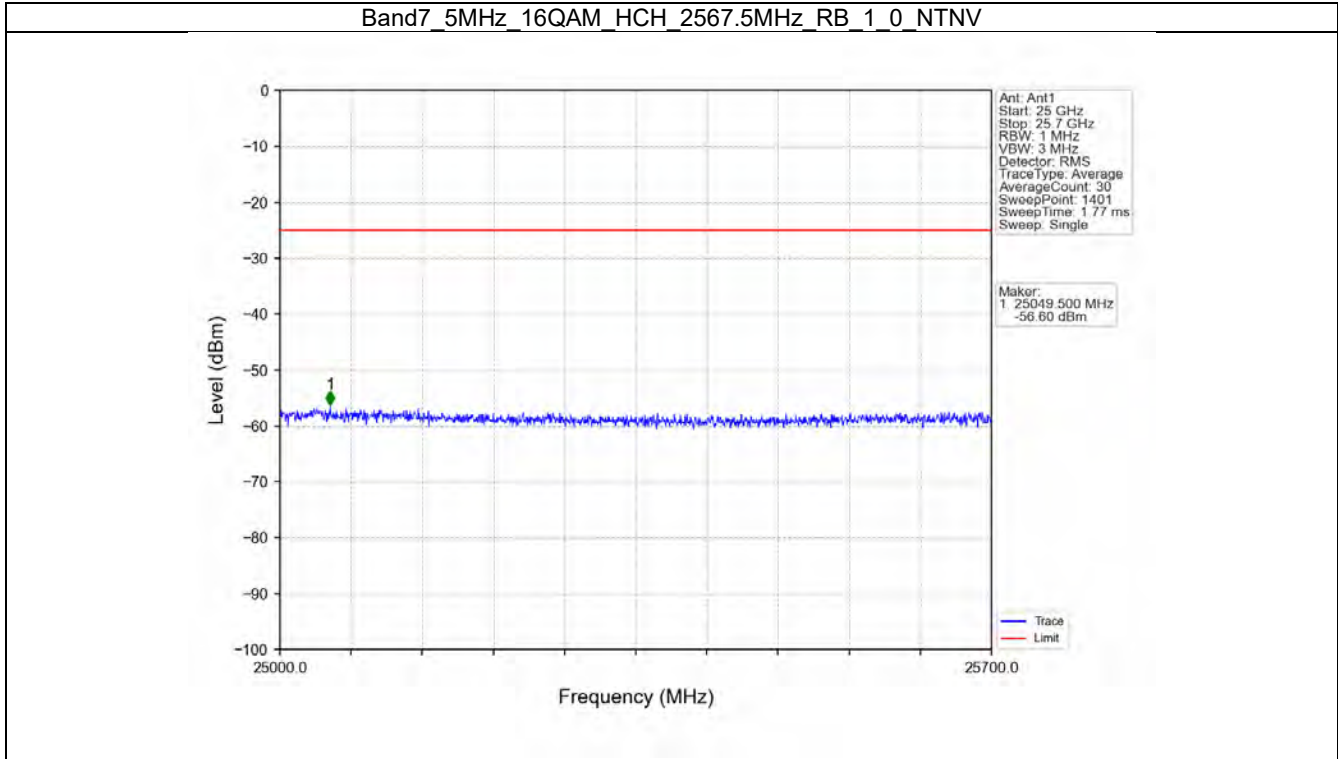
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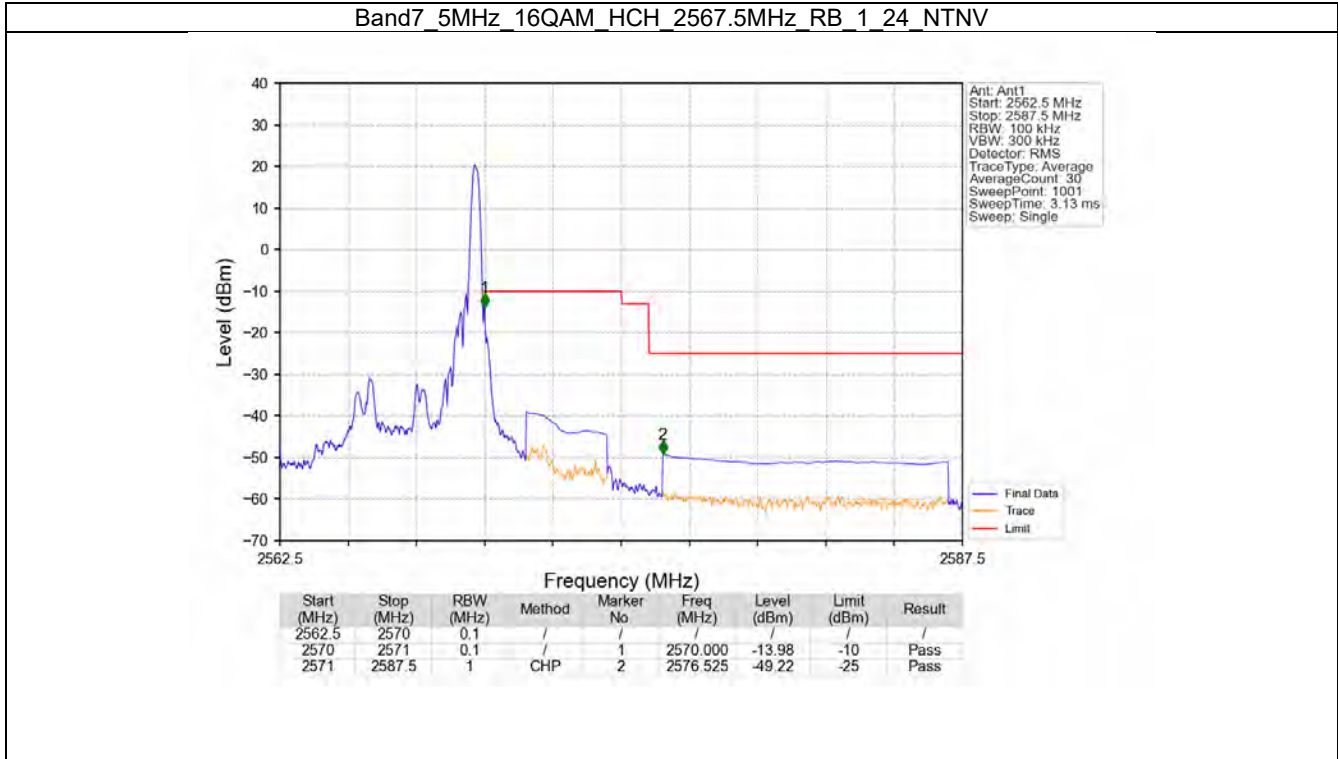
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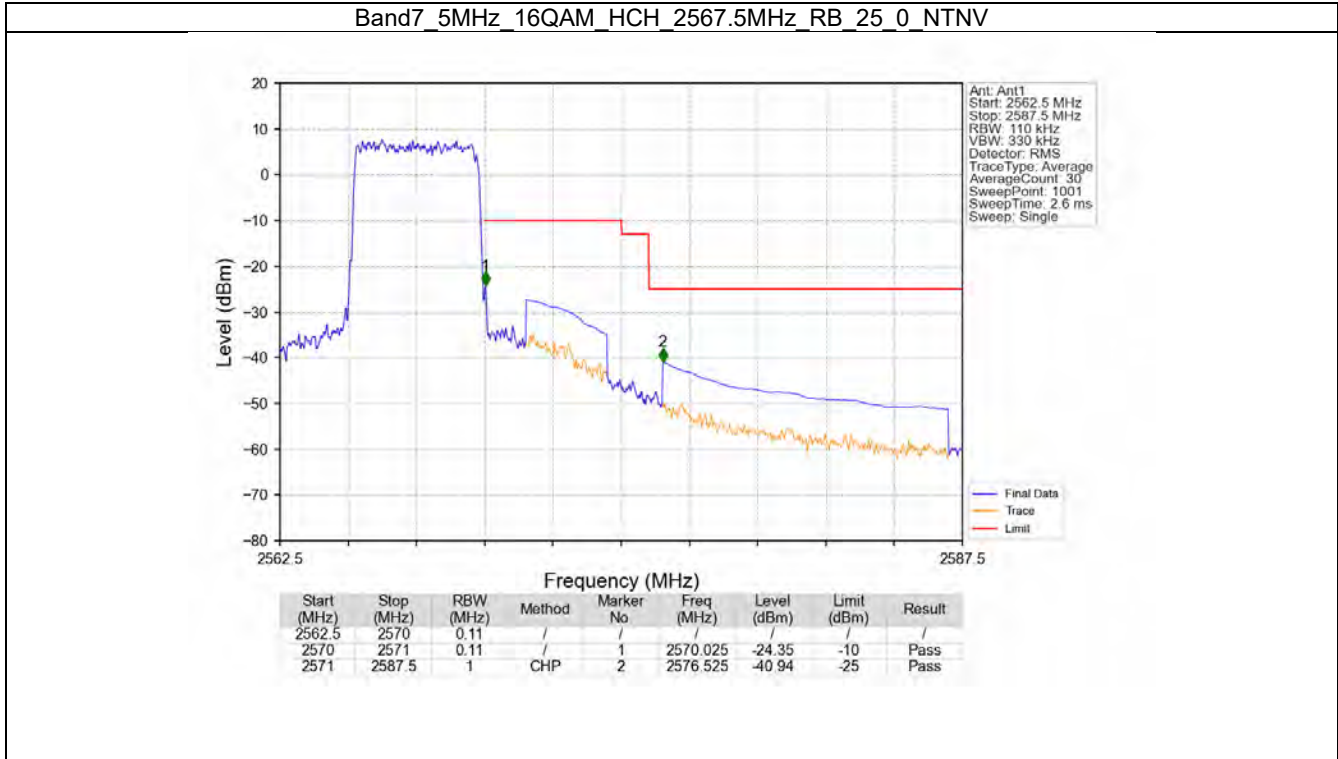
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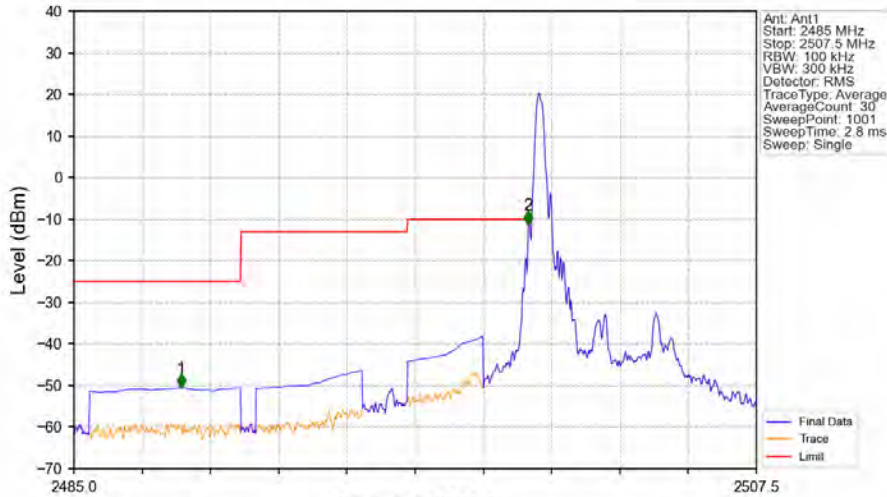
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Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2488.532	-50.58	-25	Pass
2499	2500	0.1	/	2	2499.985	-11.37	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/



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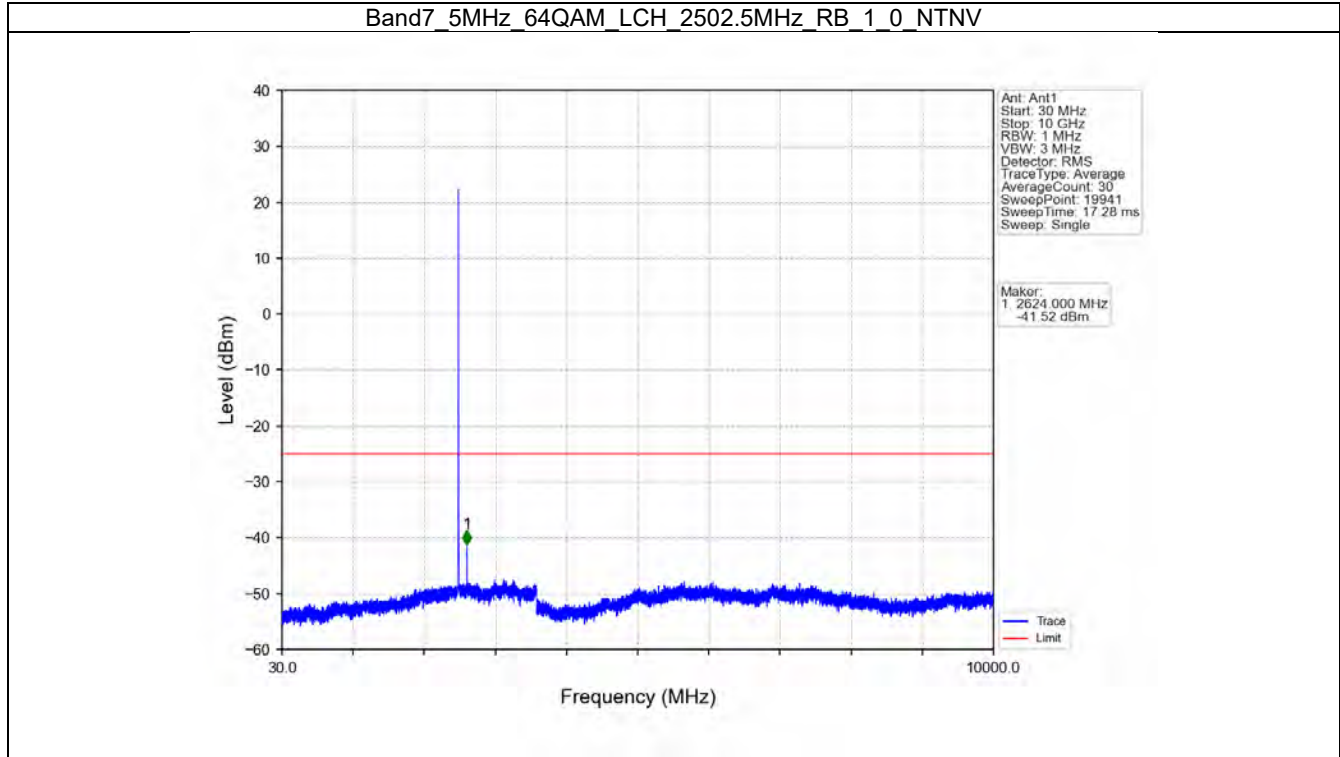


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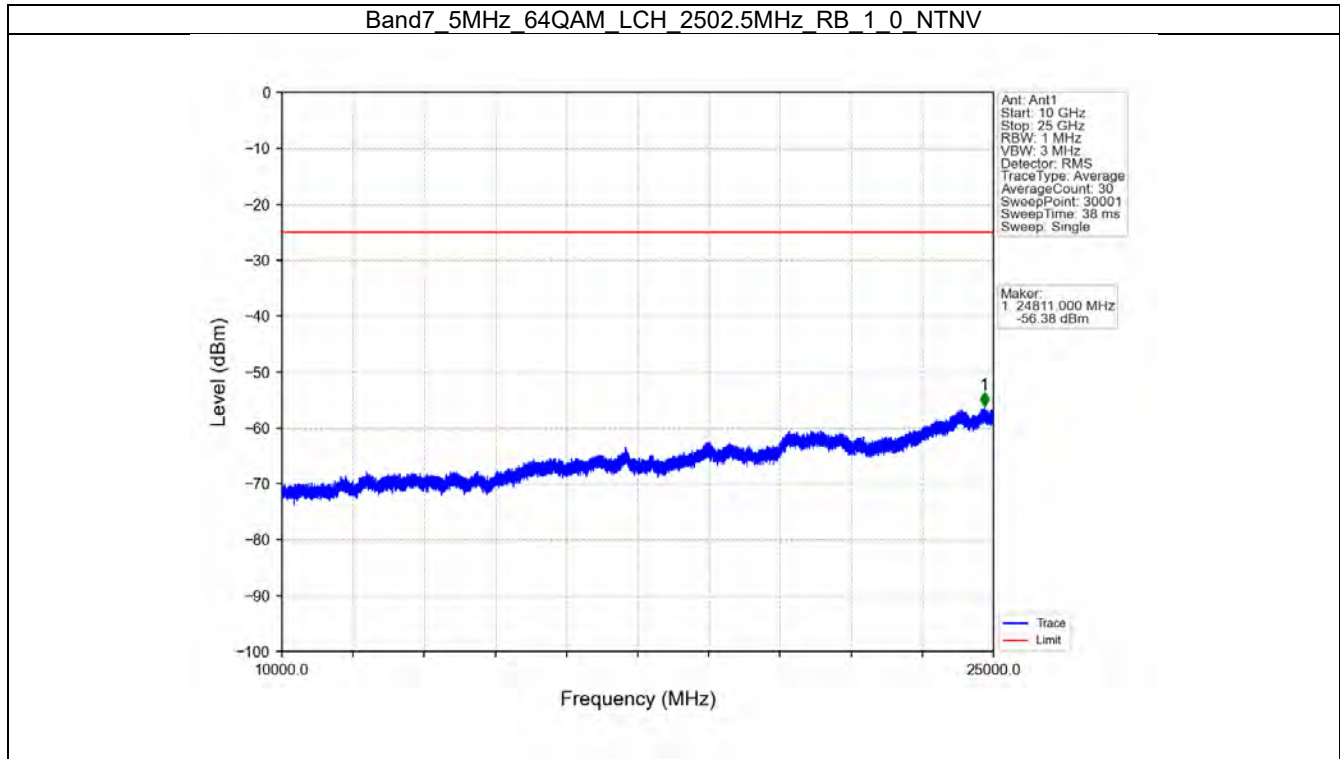
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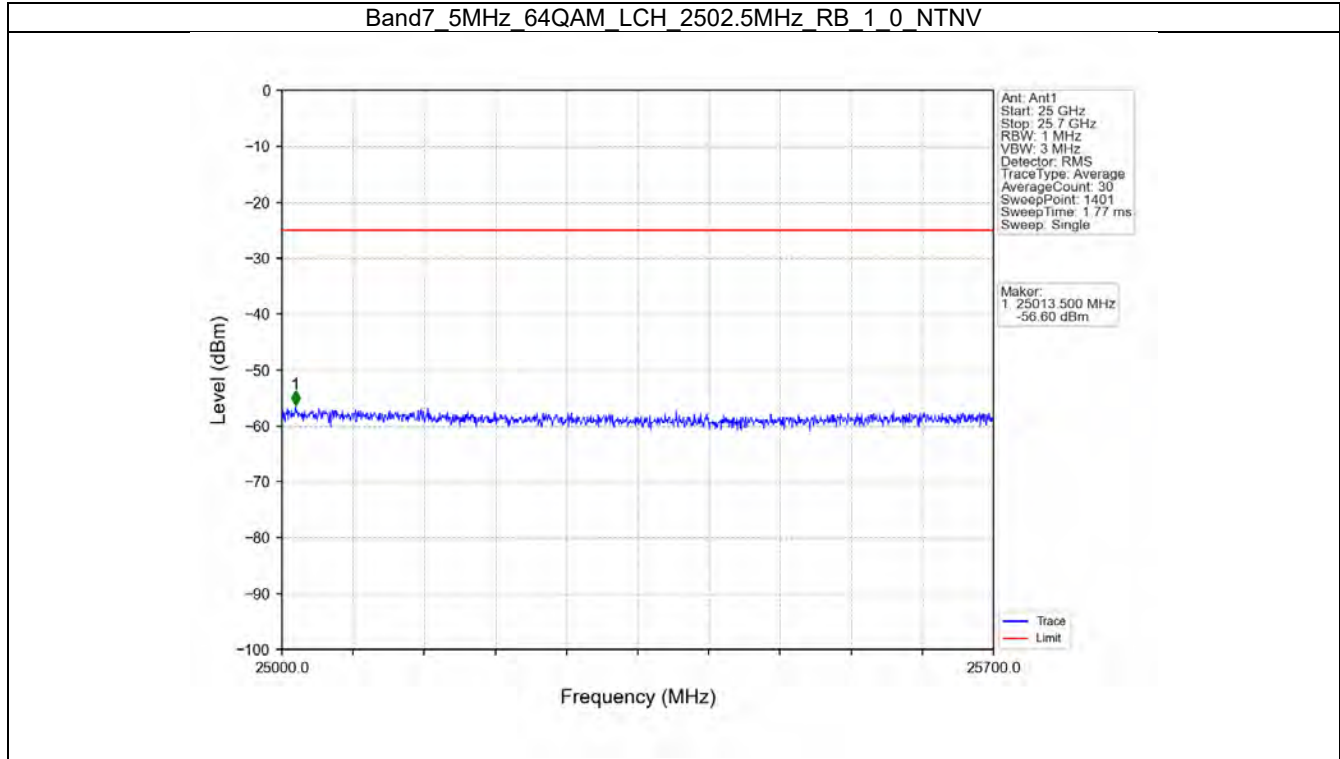
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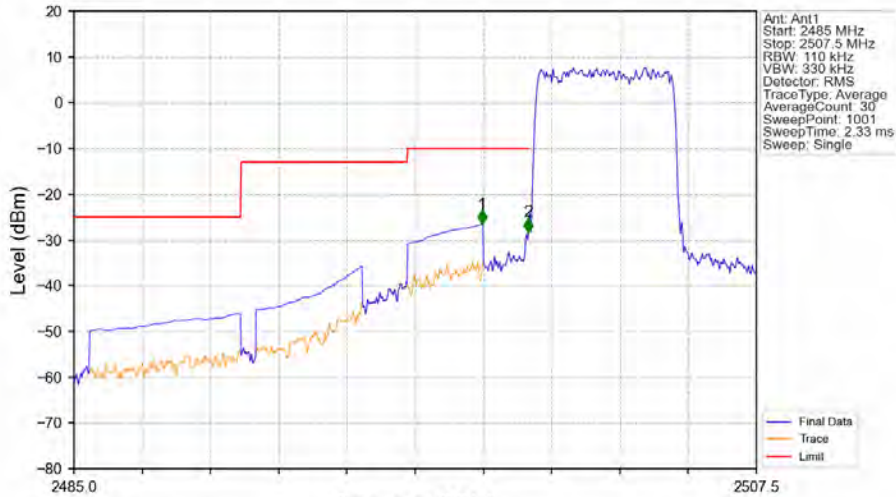
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Band7\_5MHz\_64QAM\_LCH\_2502.5MHz\_RB\_25\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	0.11	CHP	1	2498.455	-26.57	-10	Pass
2499	2500	0.11	/	2	2499.985	-28.25	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/



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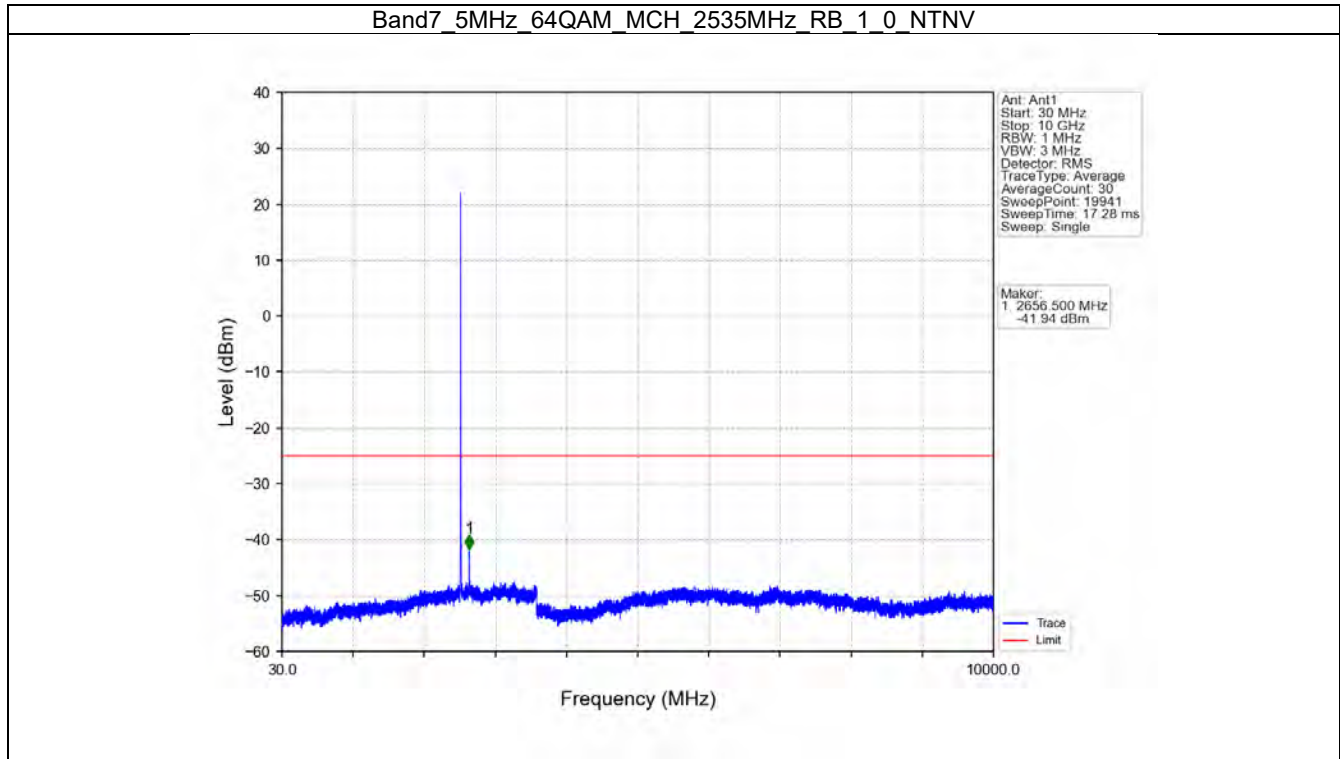
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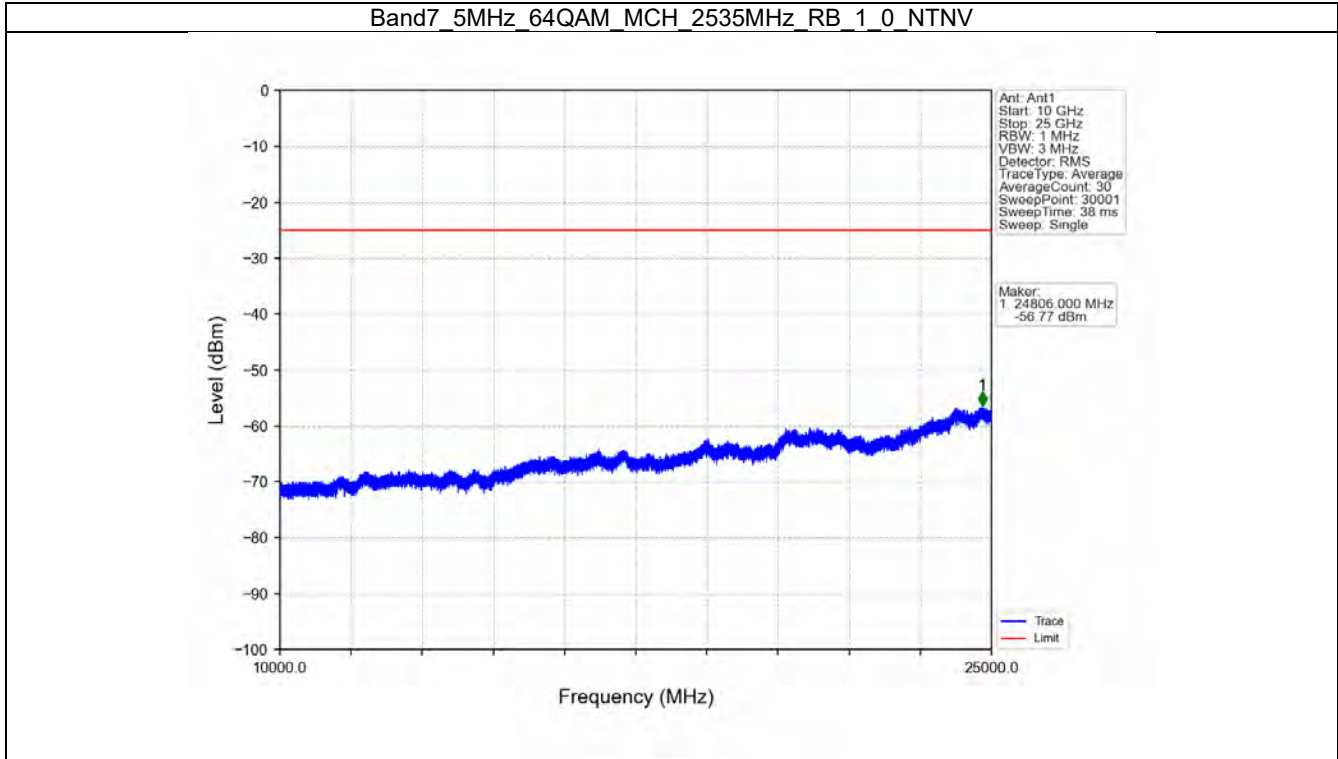
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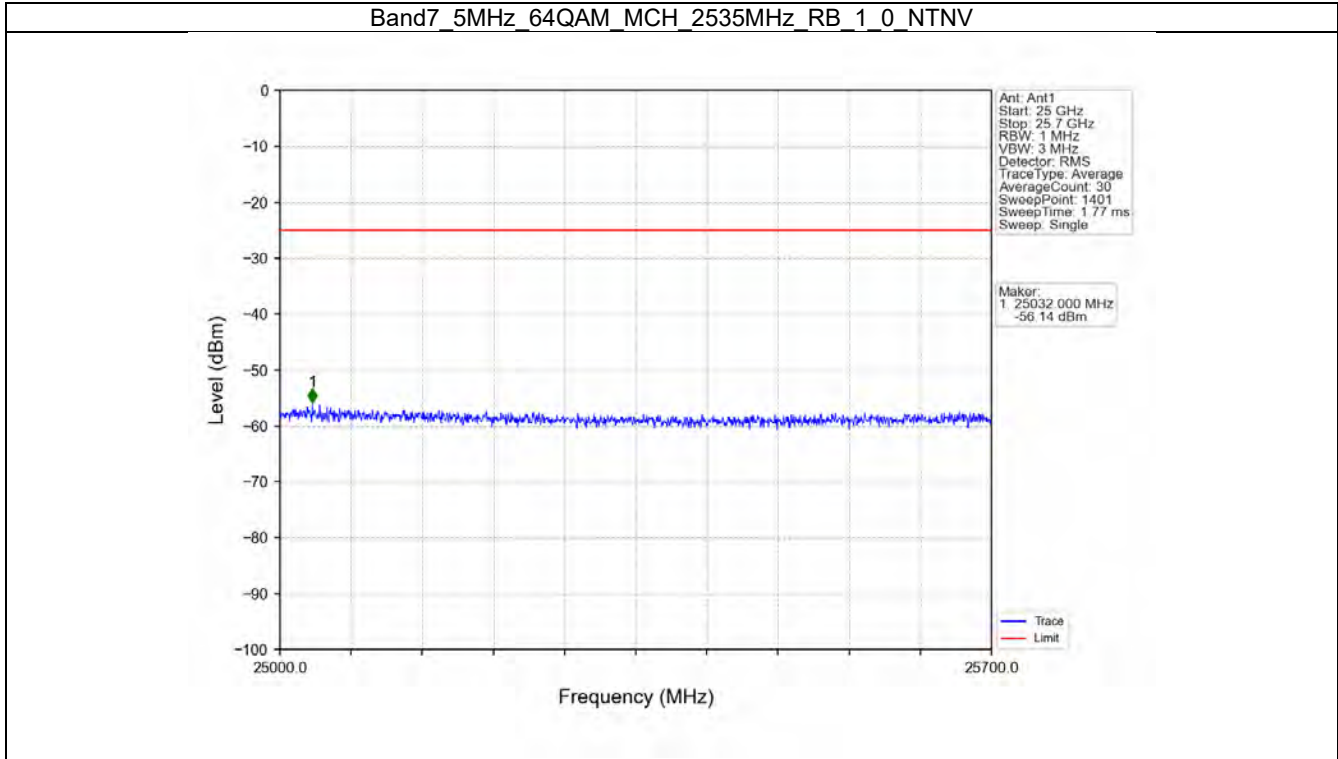
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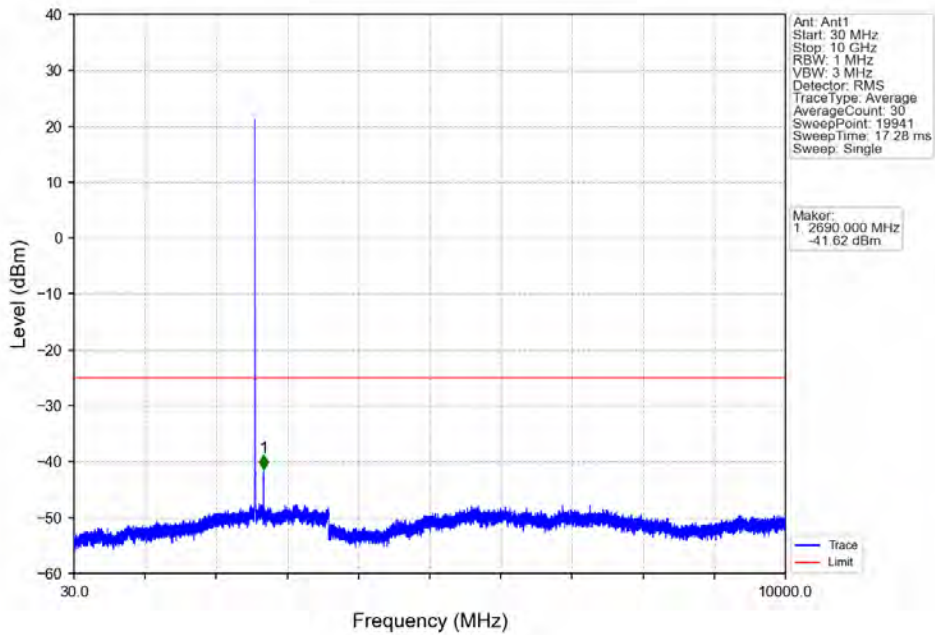
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Band7\_5MHz\_64QAM\_HCH\_2567.5MHz\_RB\_1\_0\_NTNV



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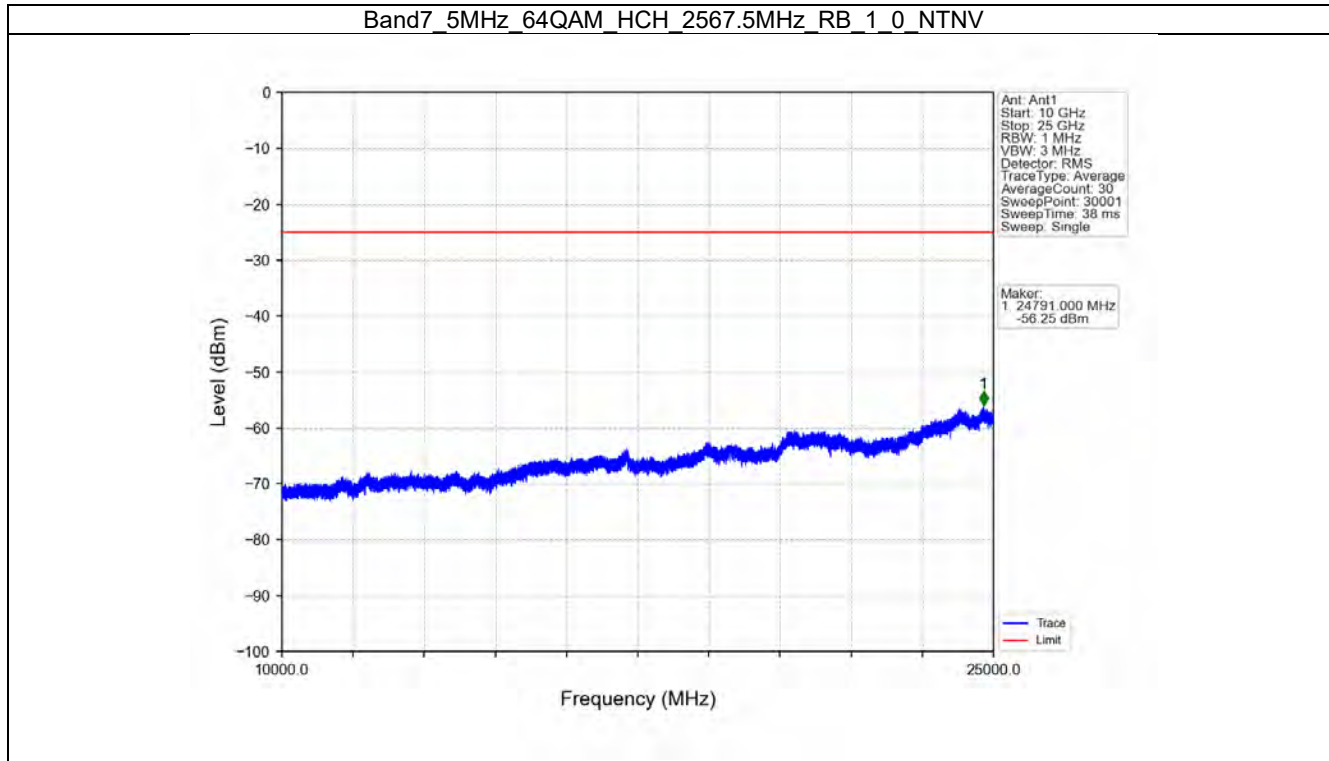
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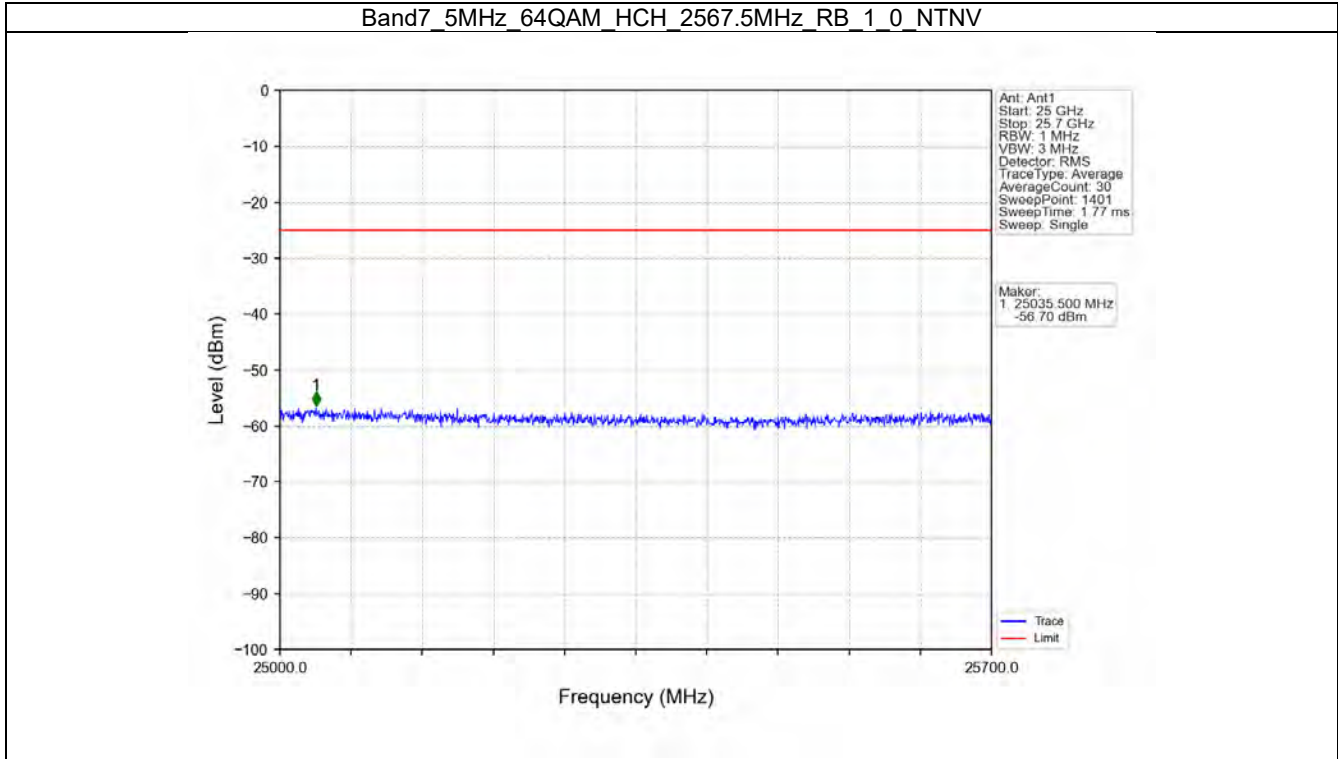
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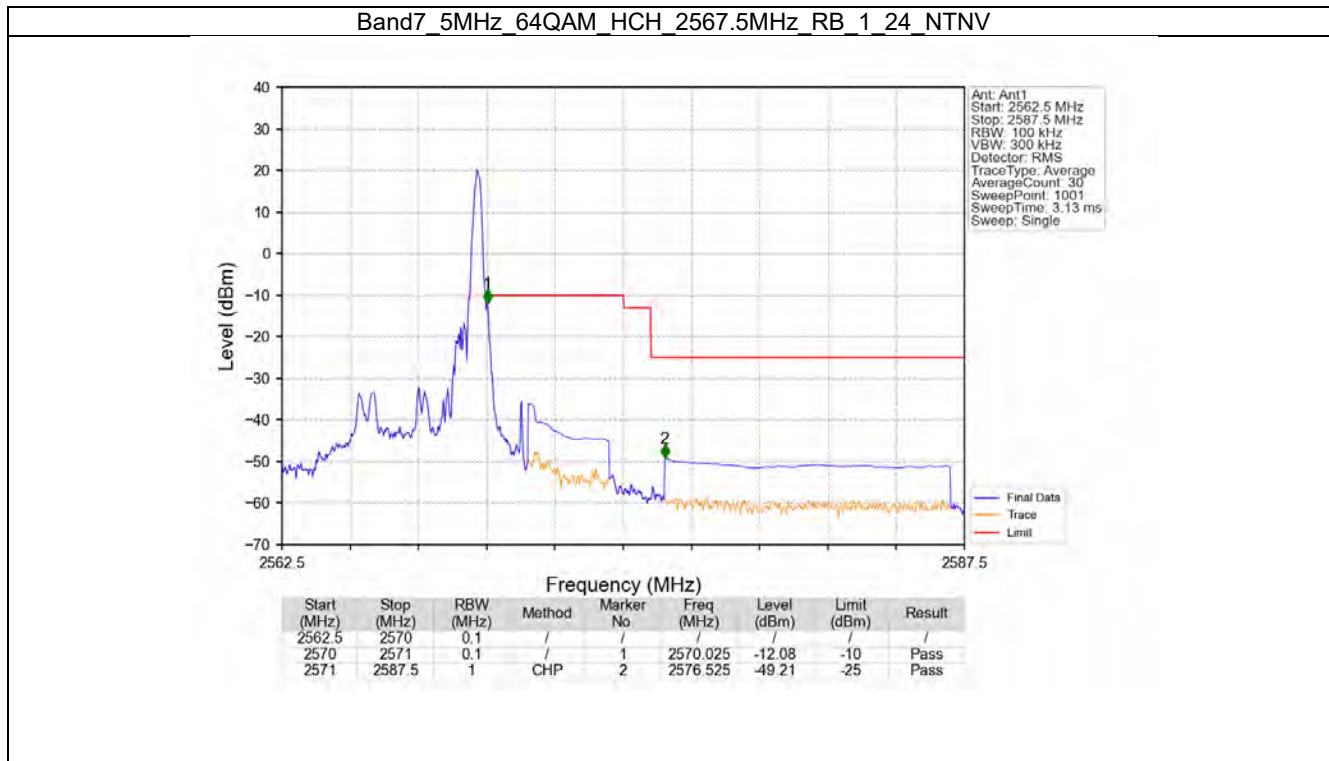
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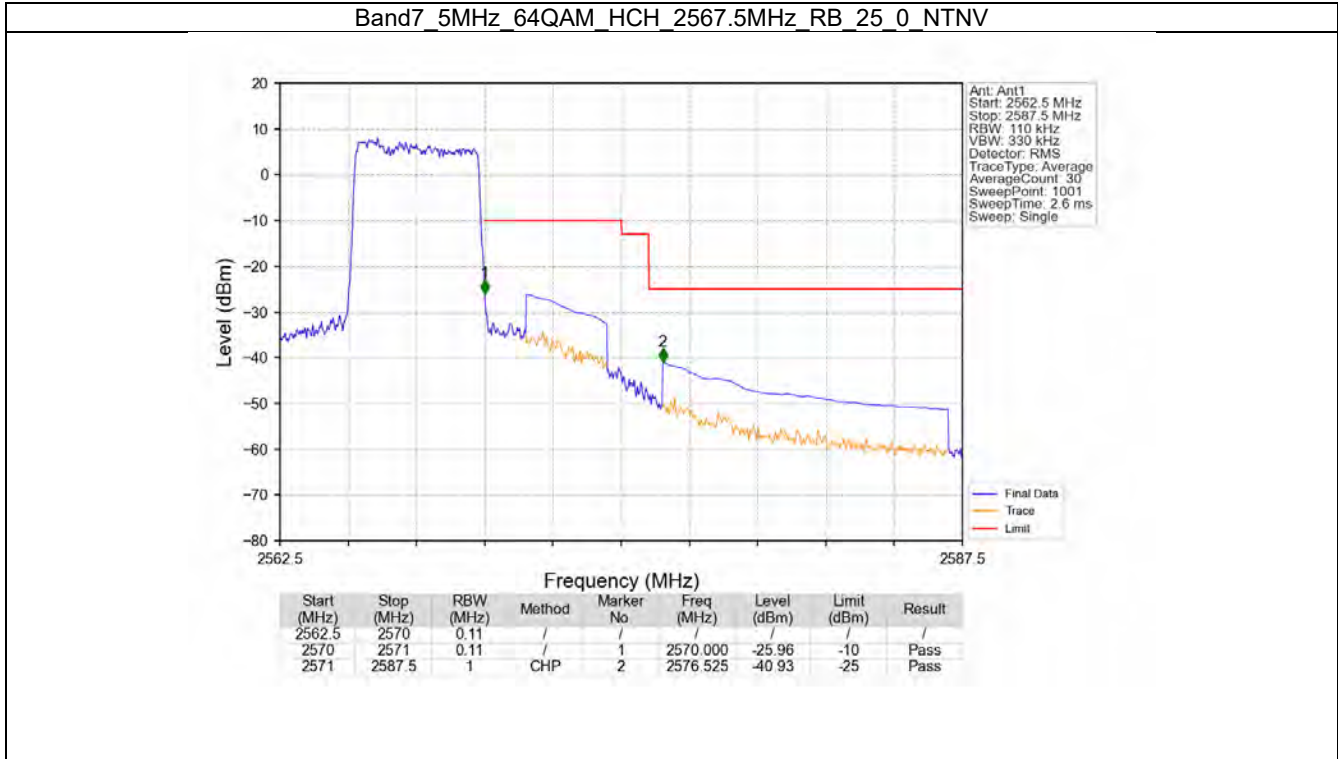
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## 5.2 B7\_10MHz

### 5.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2565	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
16QAM	2505	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2565	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
64QAM	2505	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2565	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	



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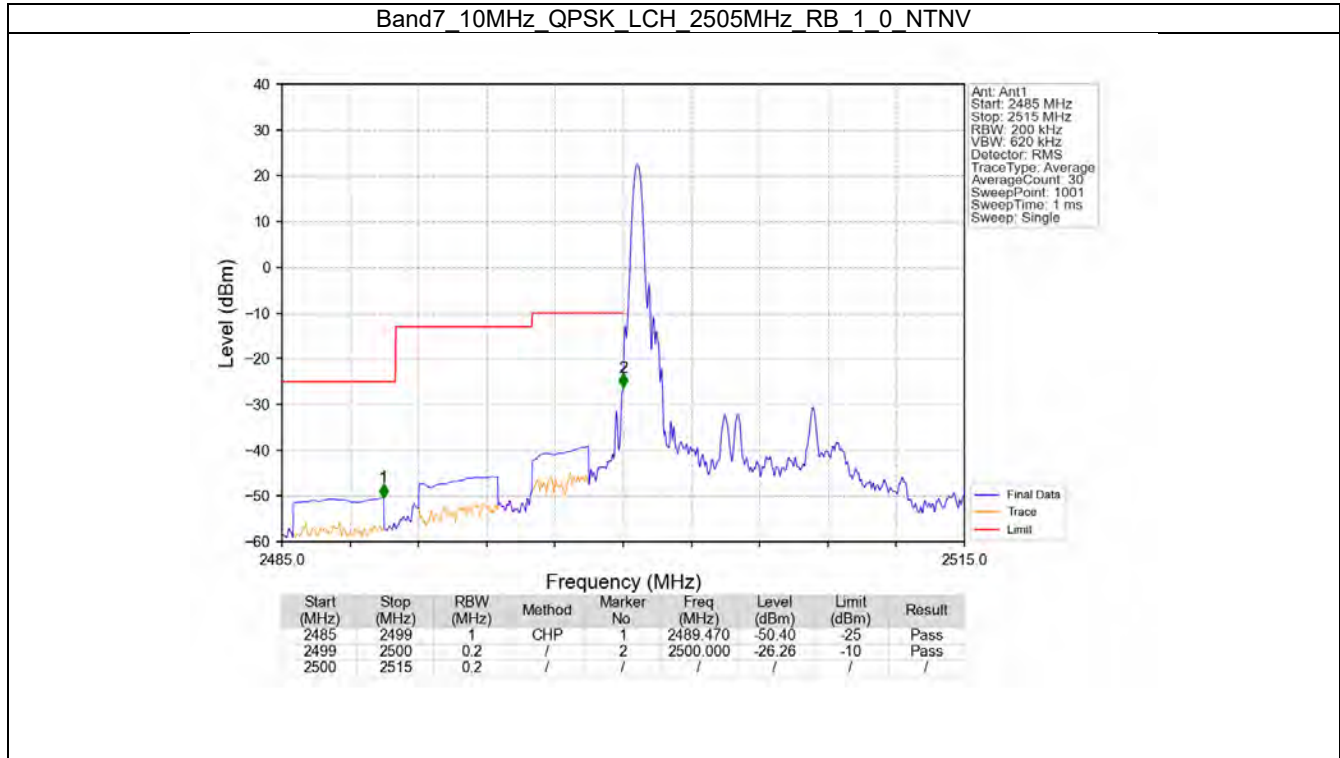




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5.2.2 Test Graph



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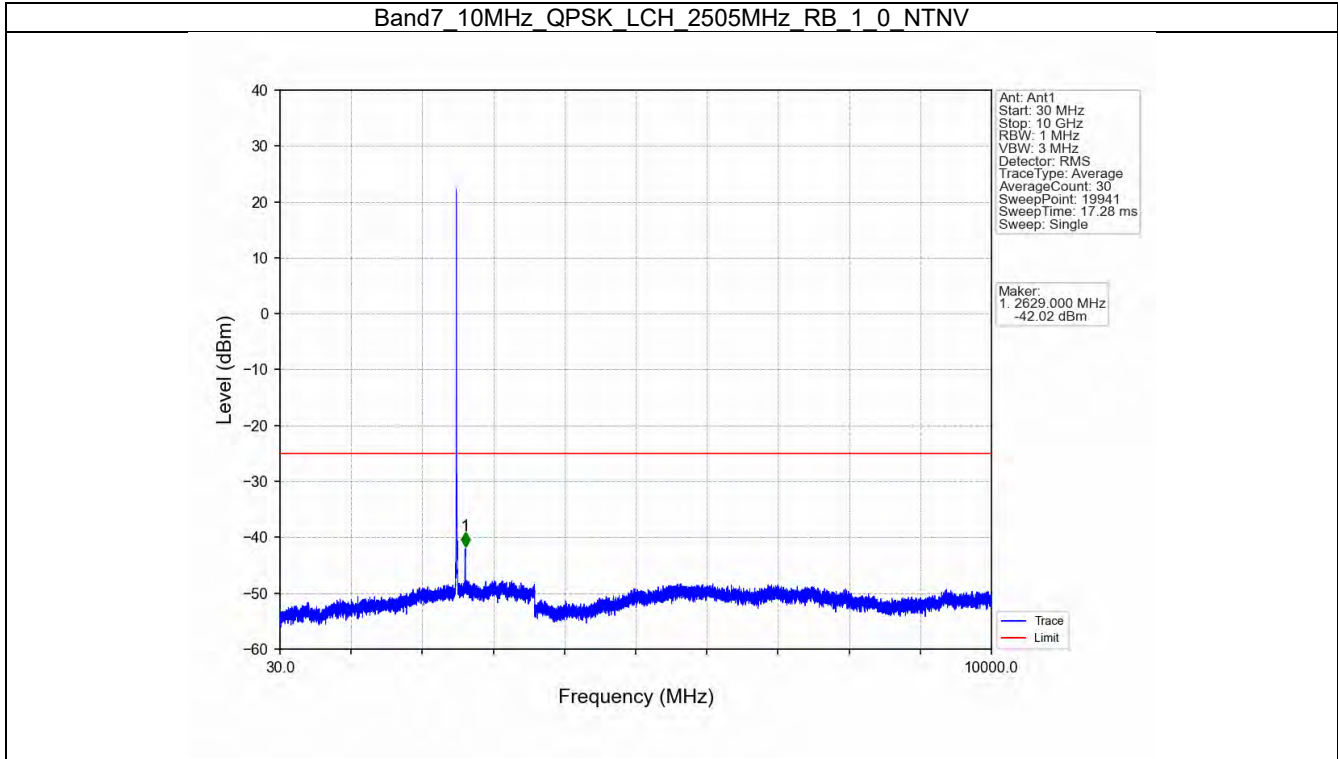
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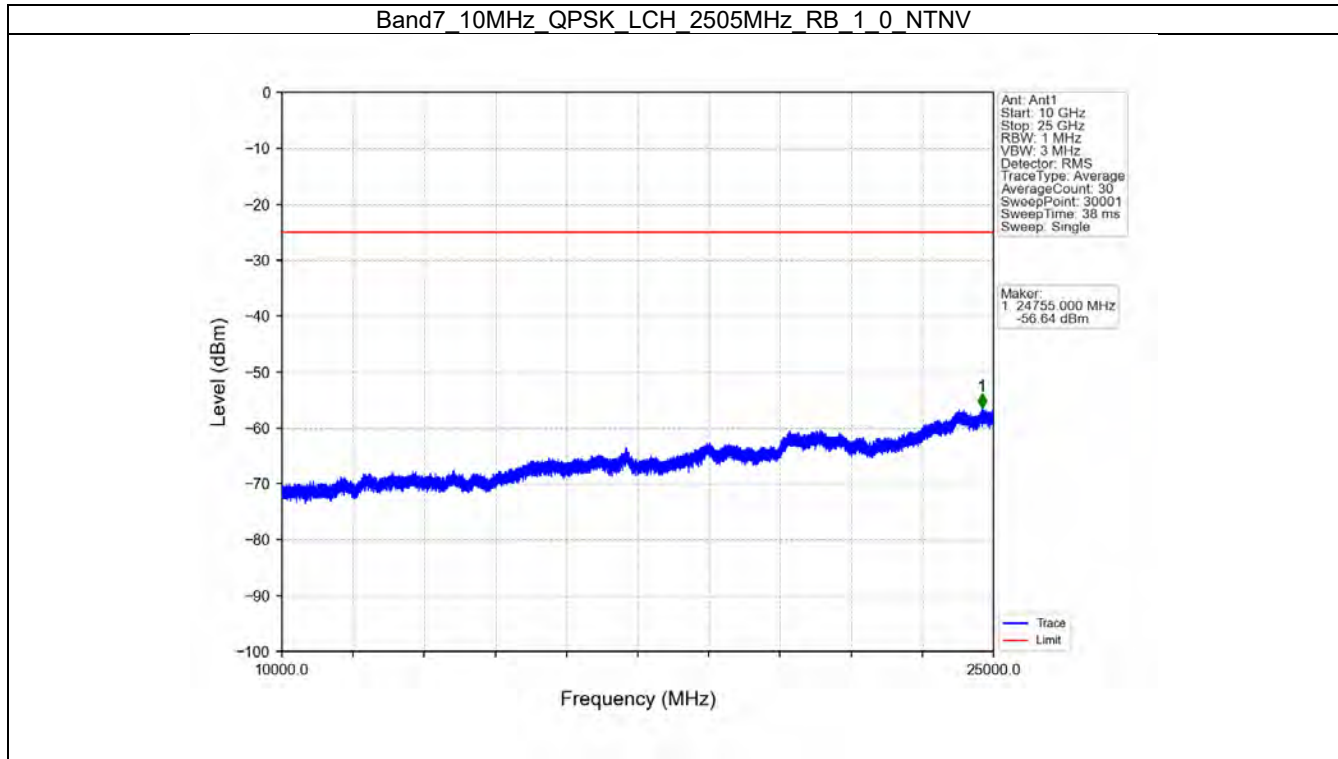


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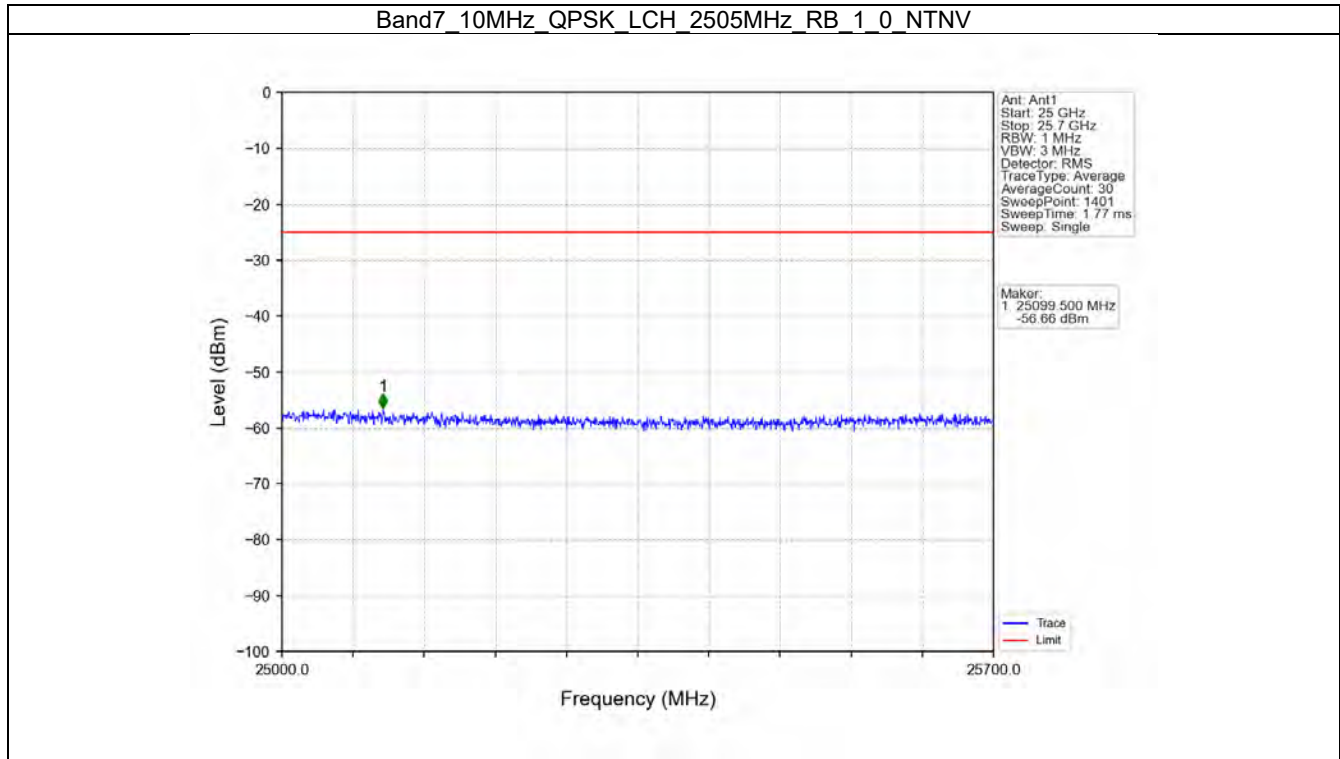


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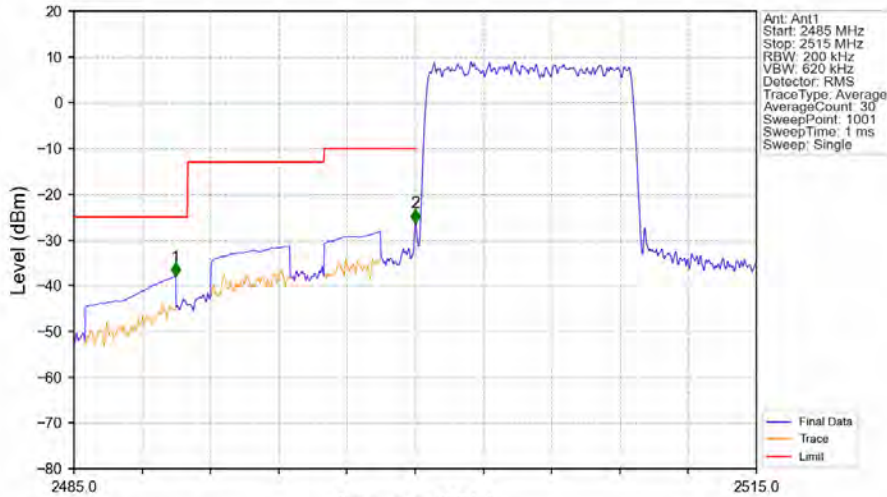
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Band7\_10MHz\_QPSK\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.470	-38.02	-25	Pass
2499	2500	0.2	/	2	2500.000	-26.32	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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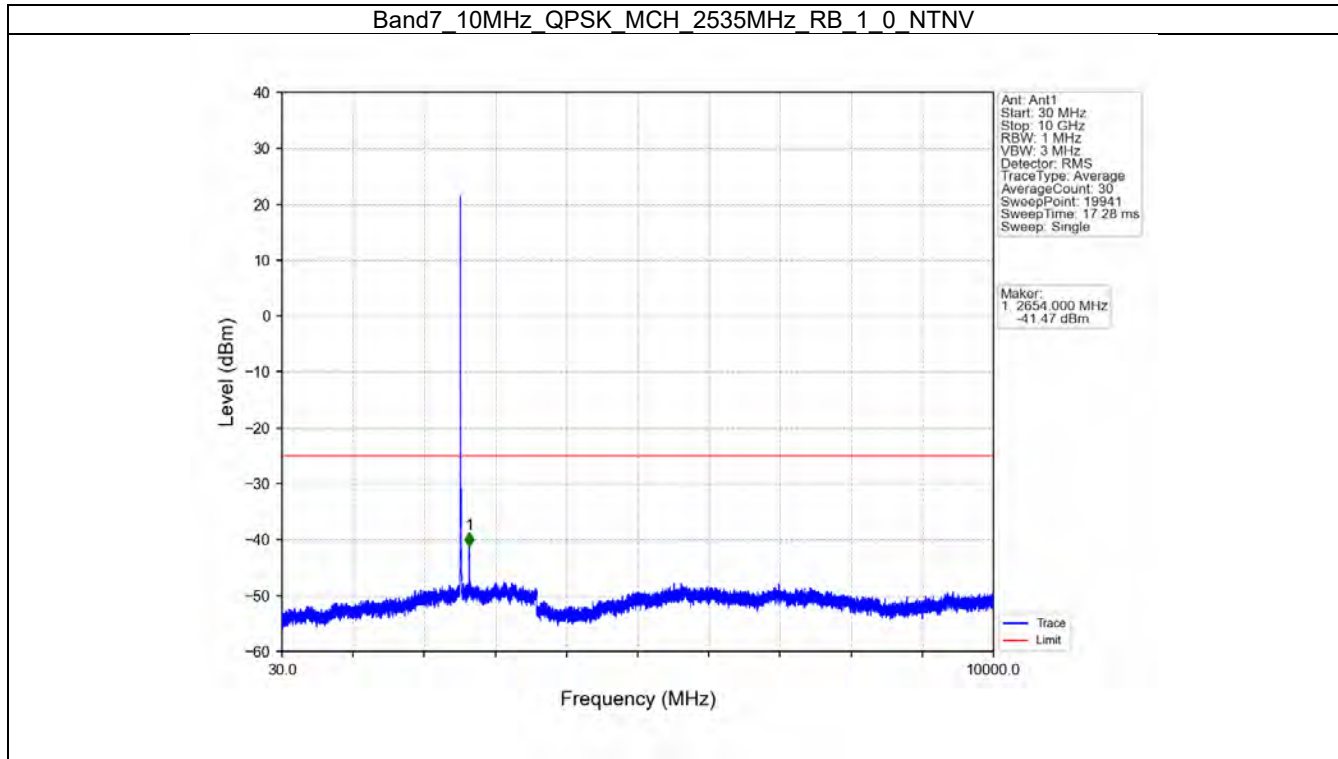


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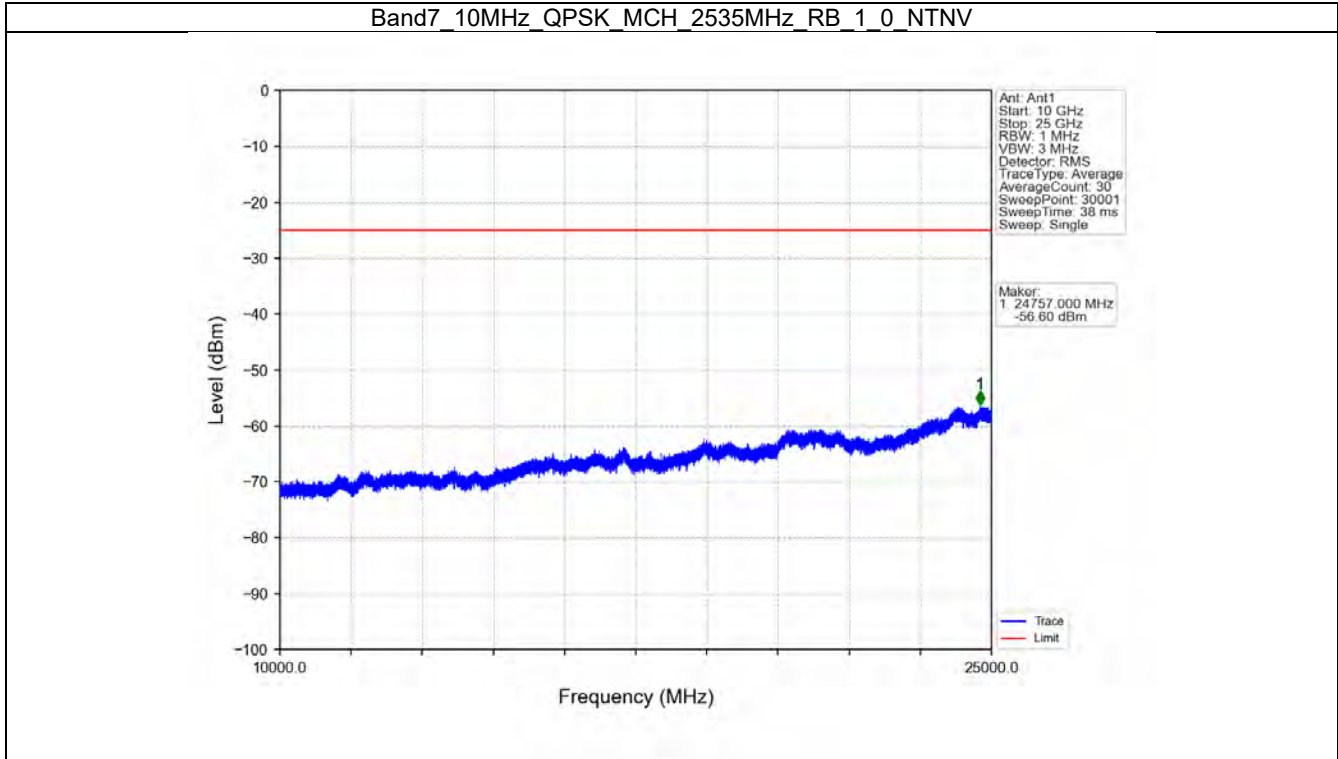
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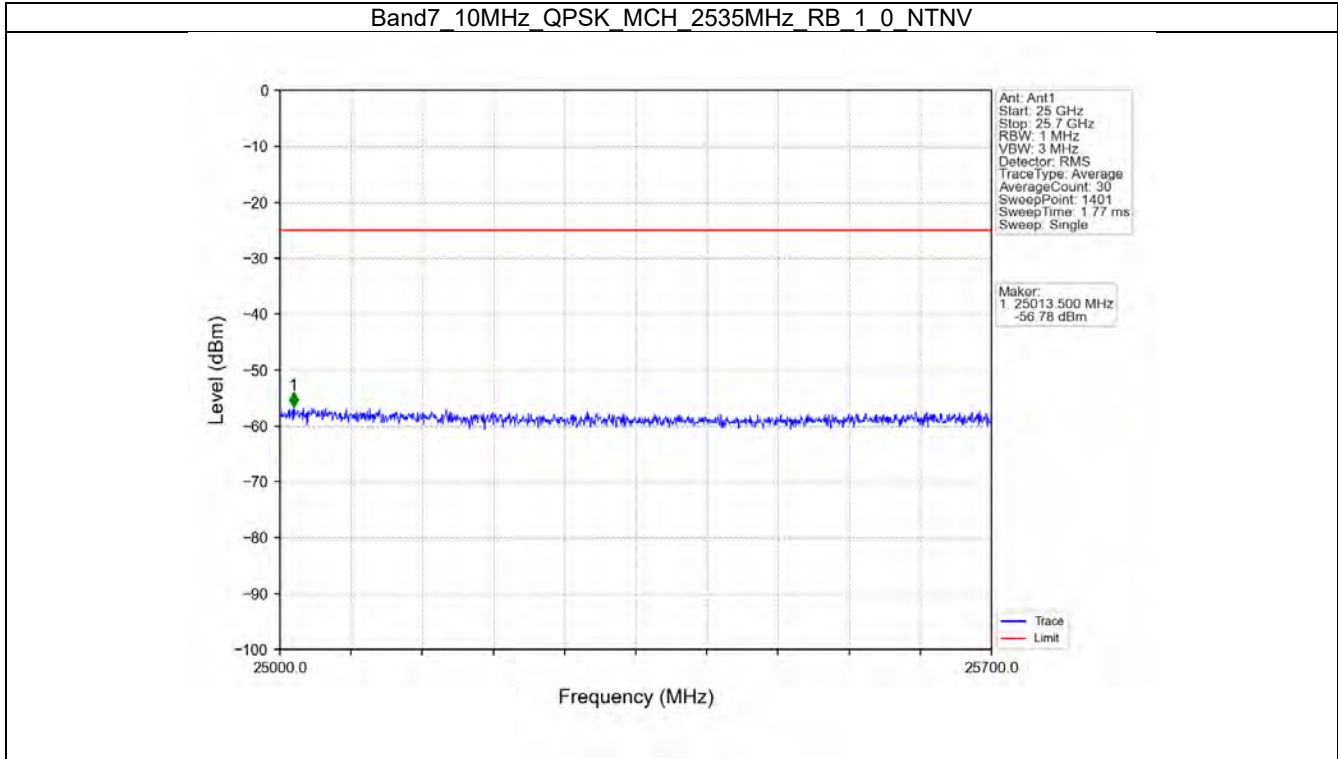
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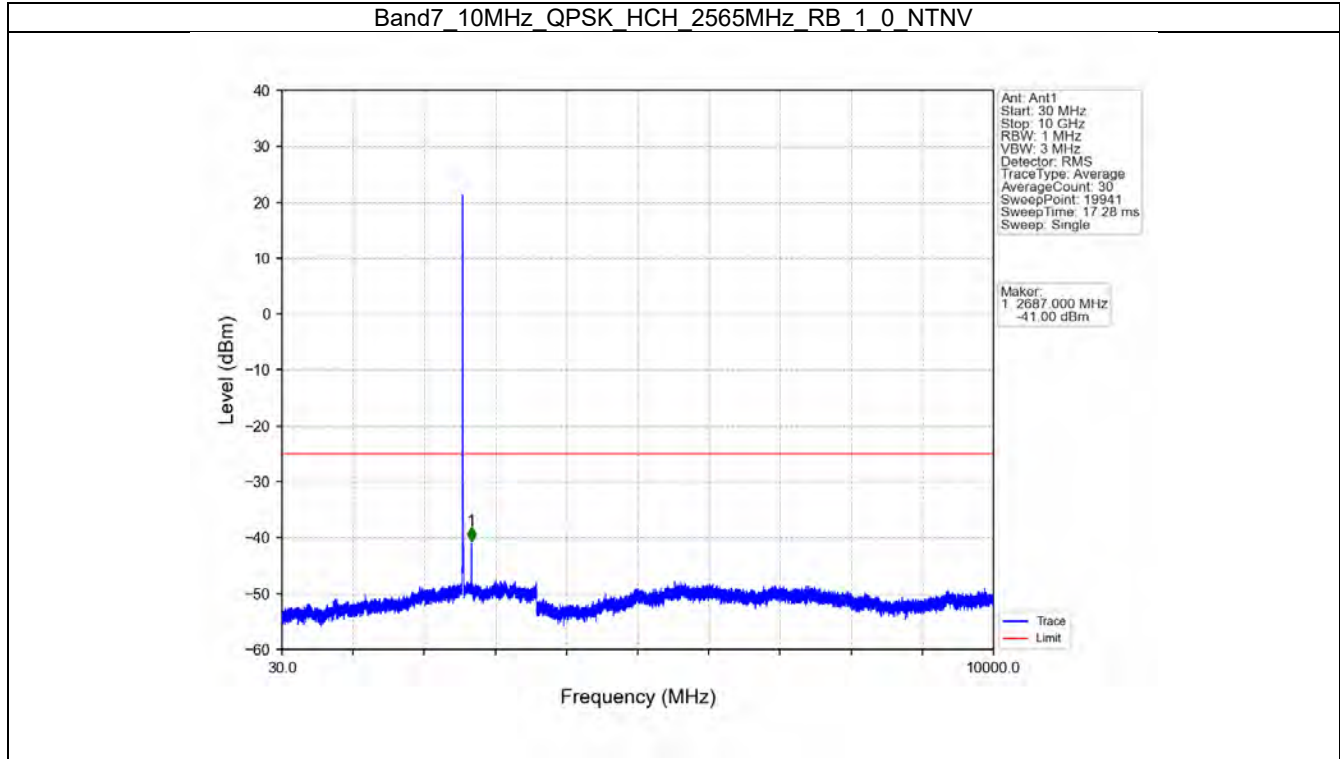
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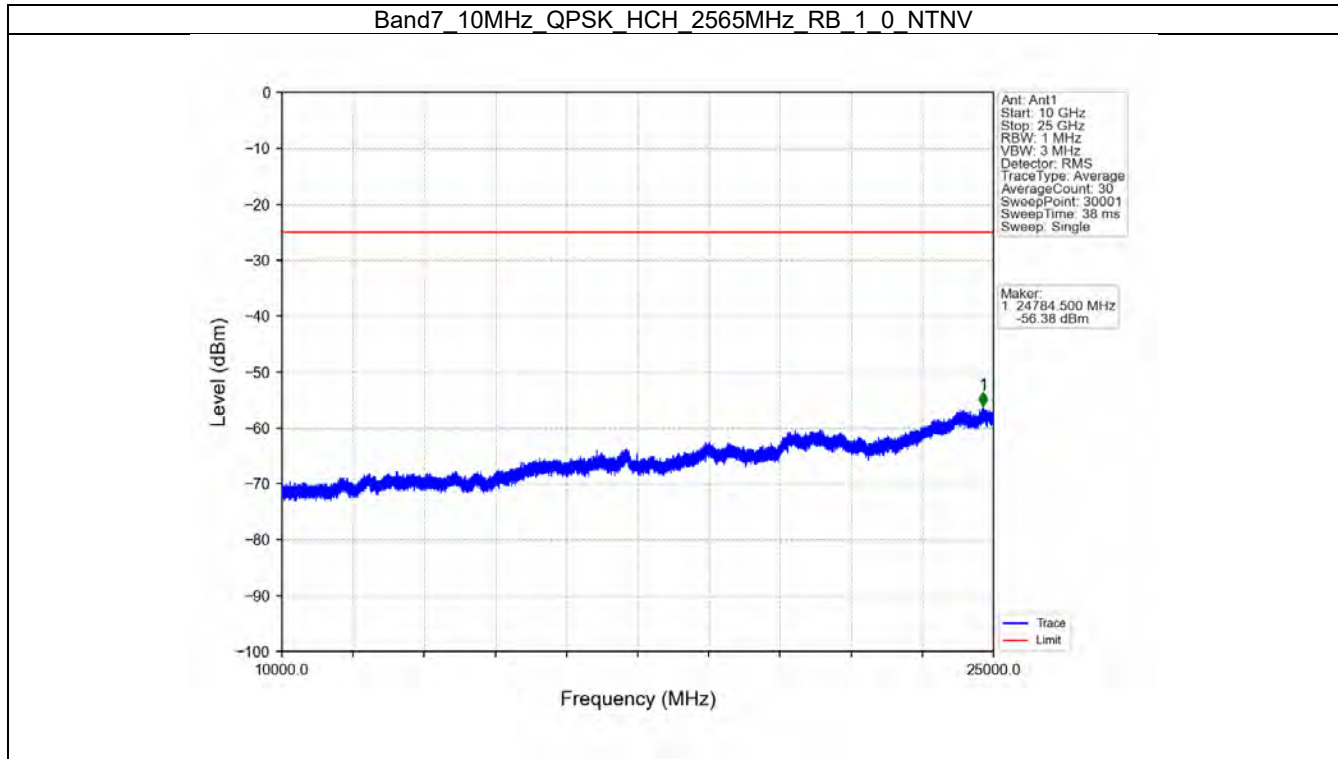


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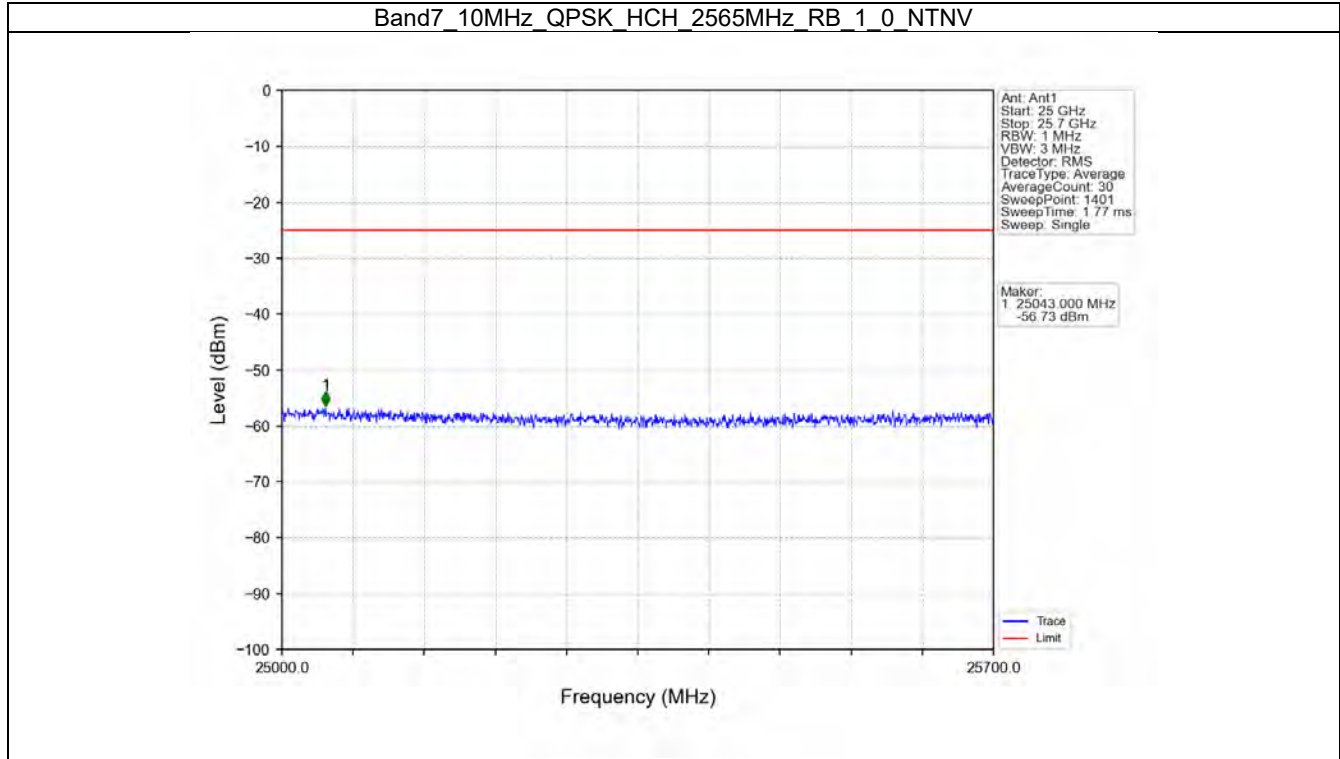
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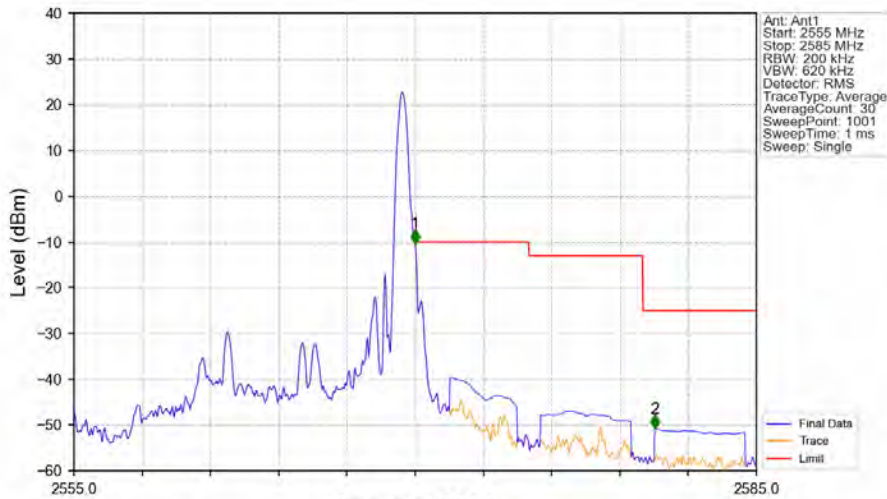
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Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	1	2570.000	-10.36	-10	Pass
2570	2571	0.2	CHP	2	2580.530	-50.89	-25	Pass



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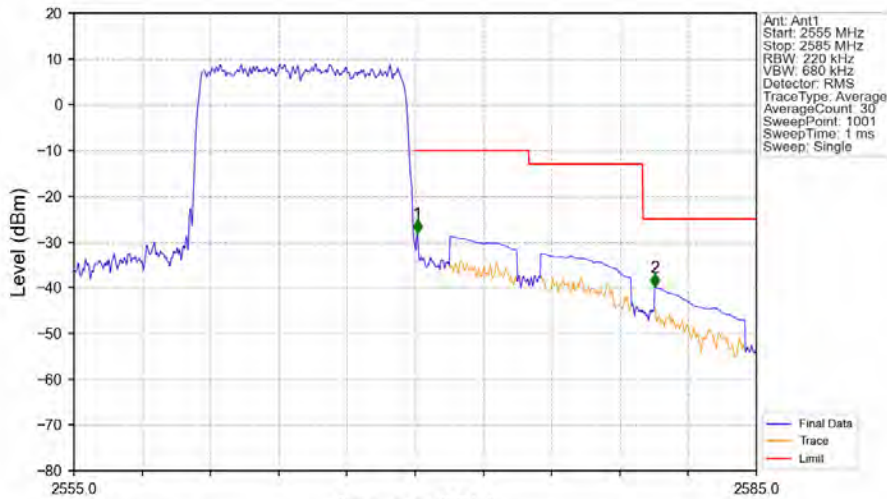
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Band7\_10MHz\_QPSK\_HCH\_2565MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.22	/	1	2570.090	-28.22	-10	Pass
2570	2571	0.22	/	2	2580.530	-40.02	-25	Pass
2571	2585	1	CHP					



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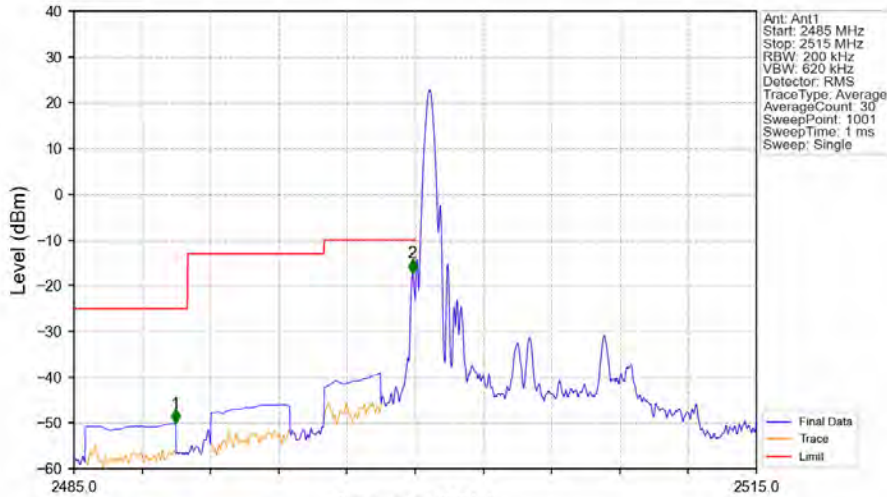
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Band7\_10MHz\_16QAM\_LCH\_2505MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.470	-50.10	-25	Pass
2499	2500	0.2	/	2	2499.880	-17.25	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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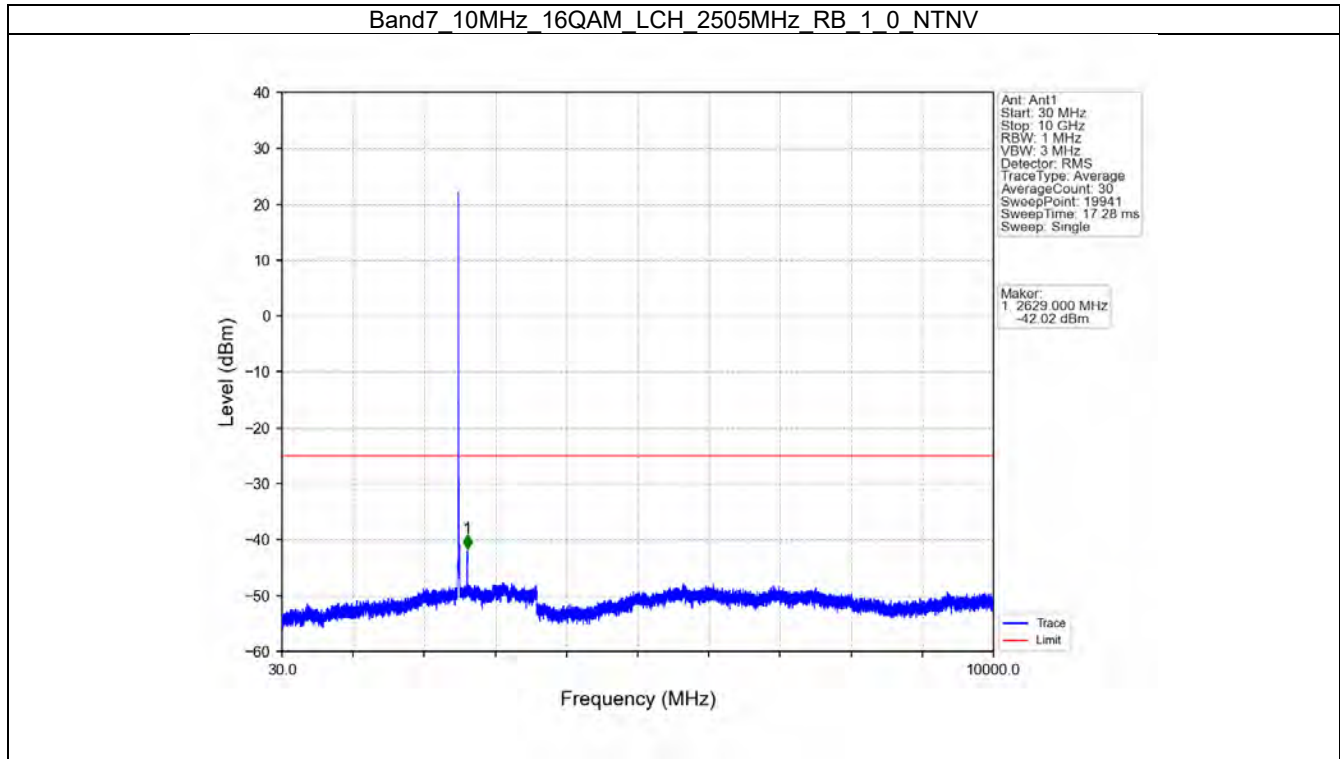


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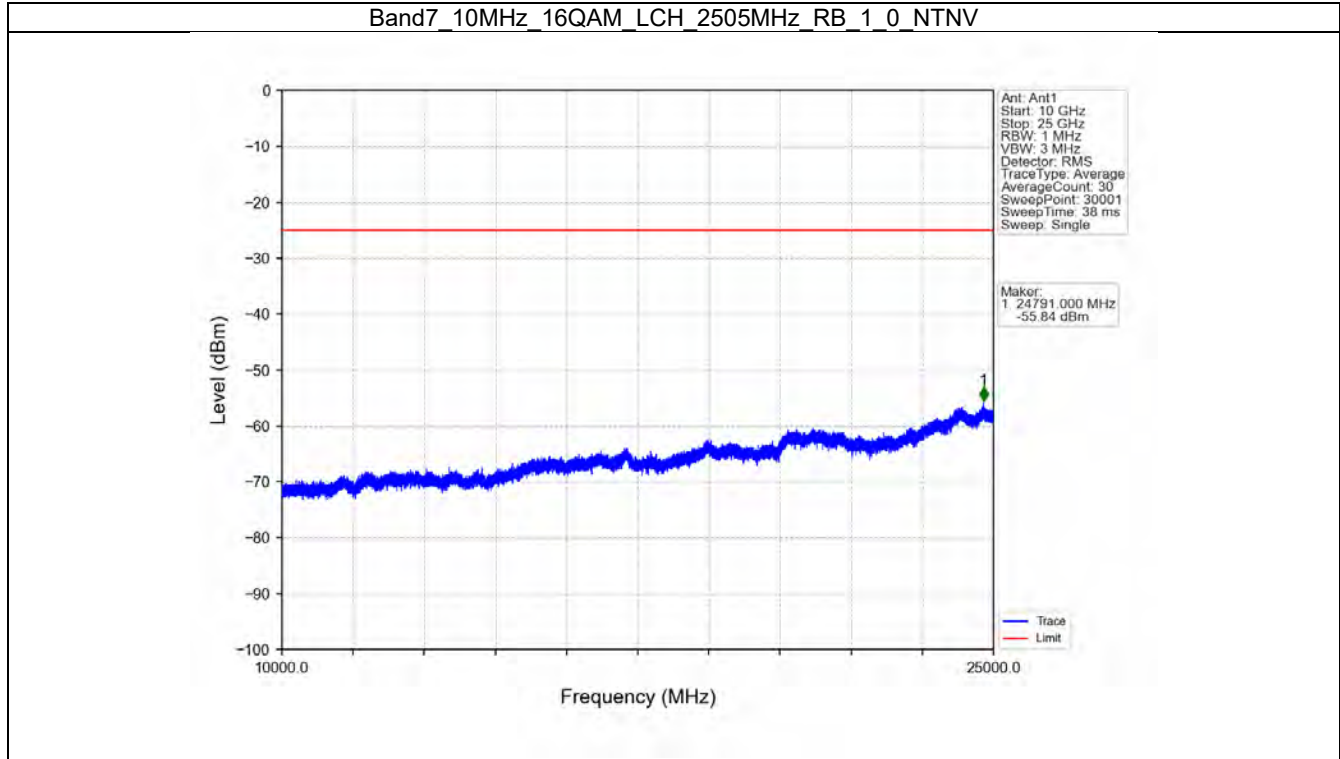
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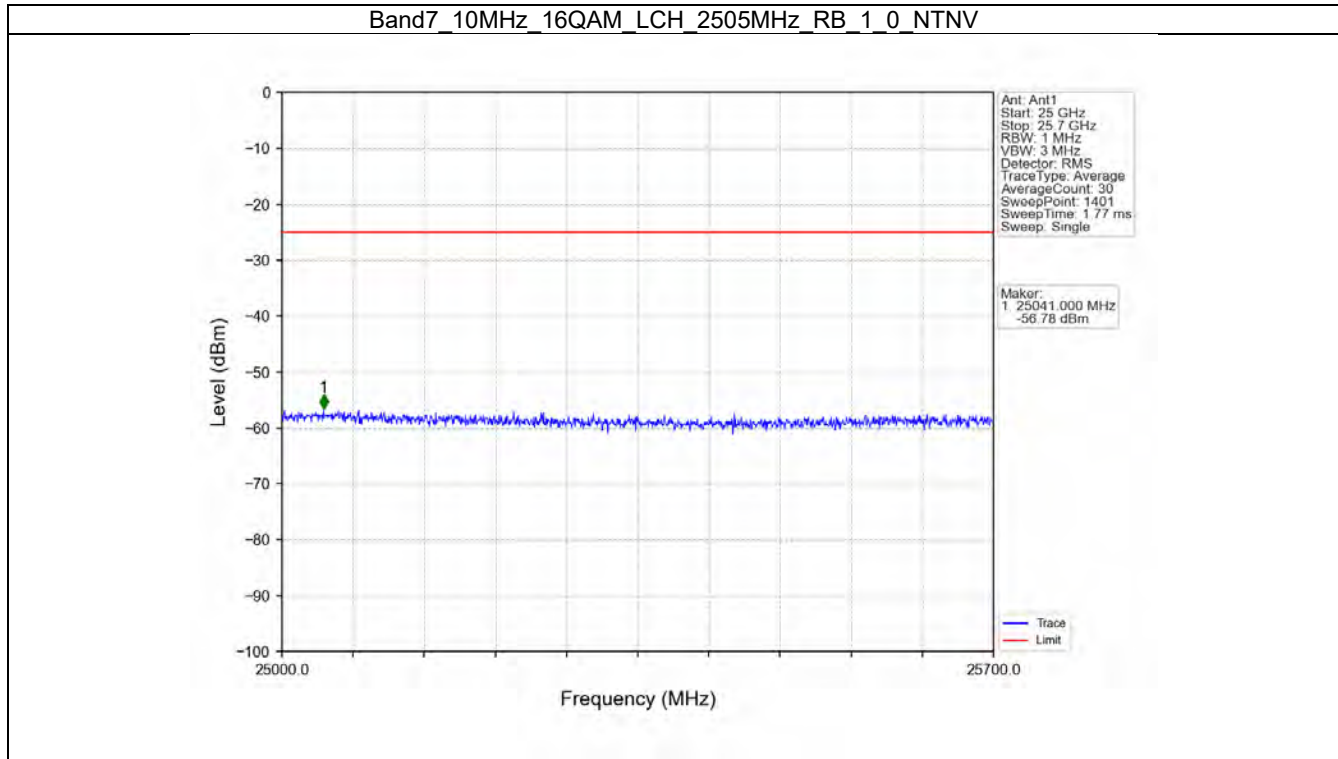


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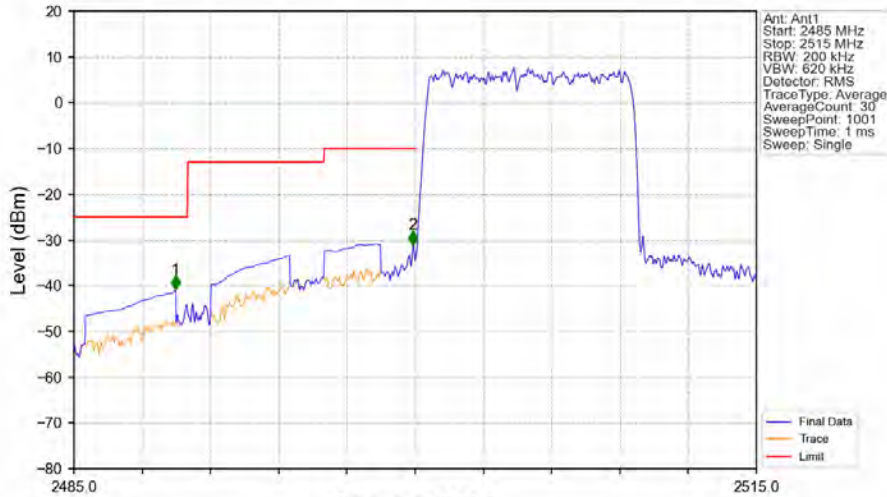
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Band7\_10MHz\_16QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.470	-40.91	-25	Pass
2499	2500	0.2	/	2	2499.910	-31.08	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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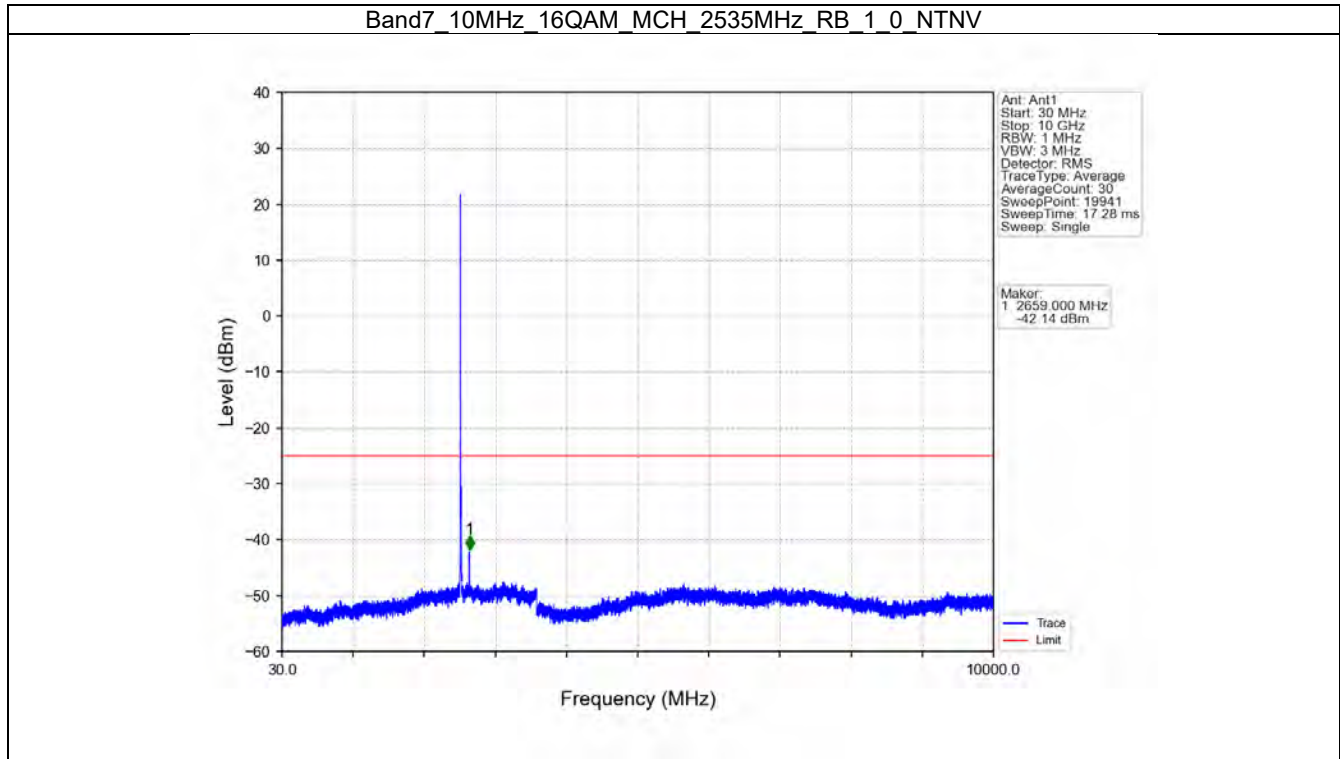
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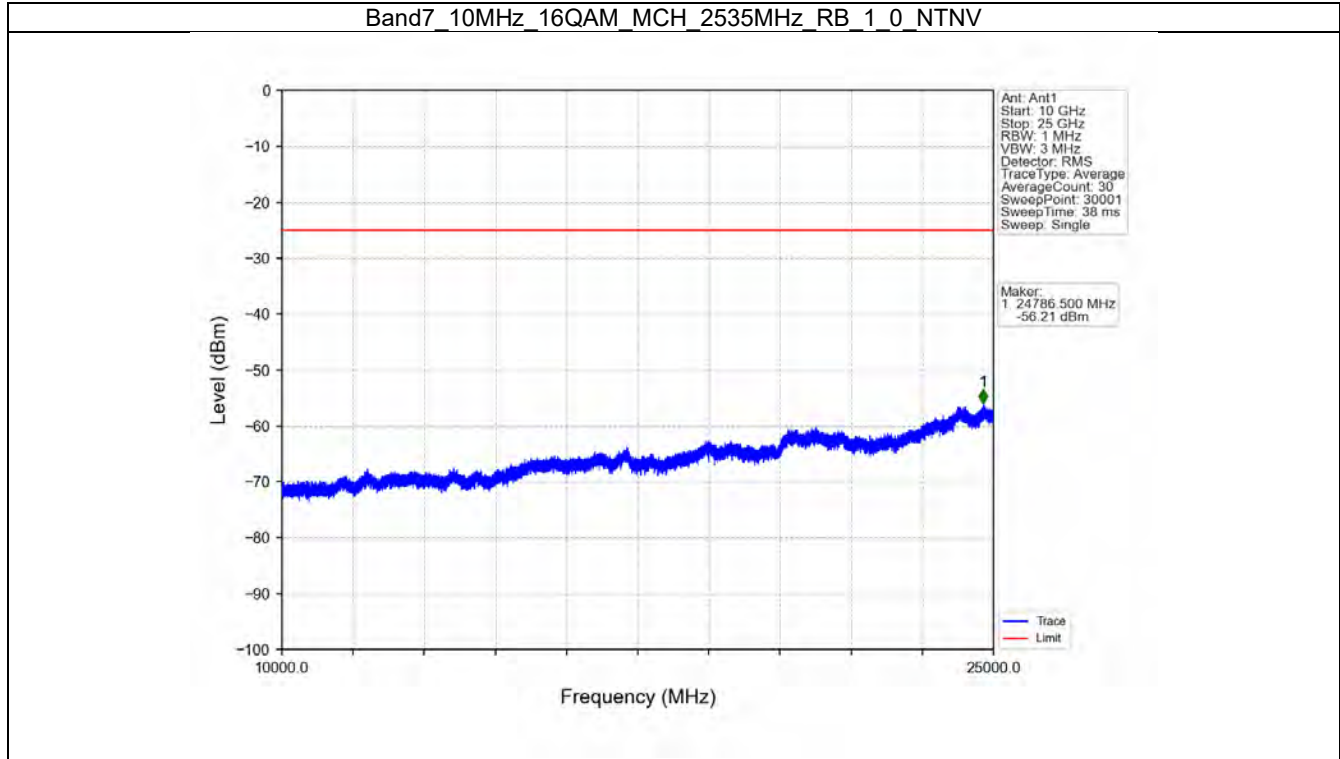
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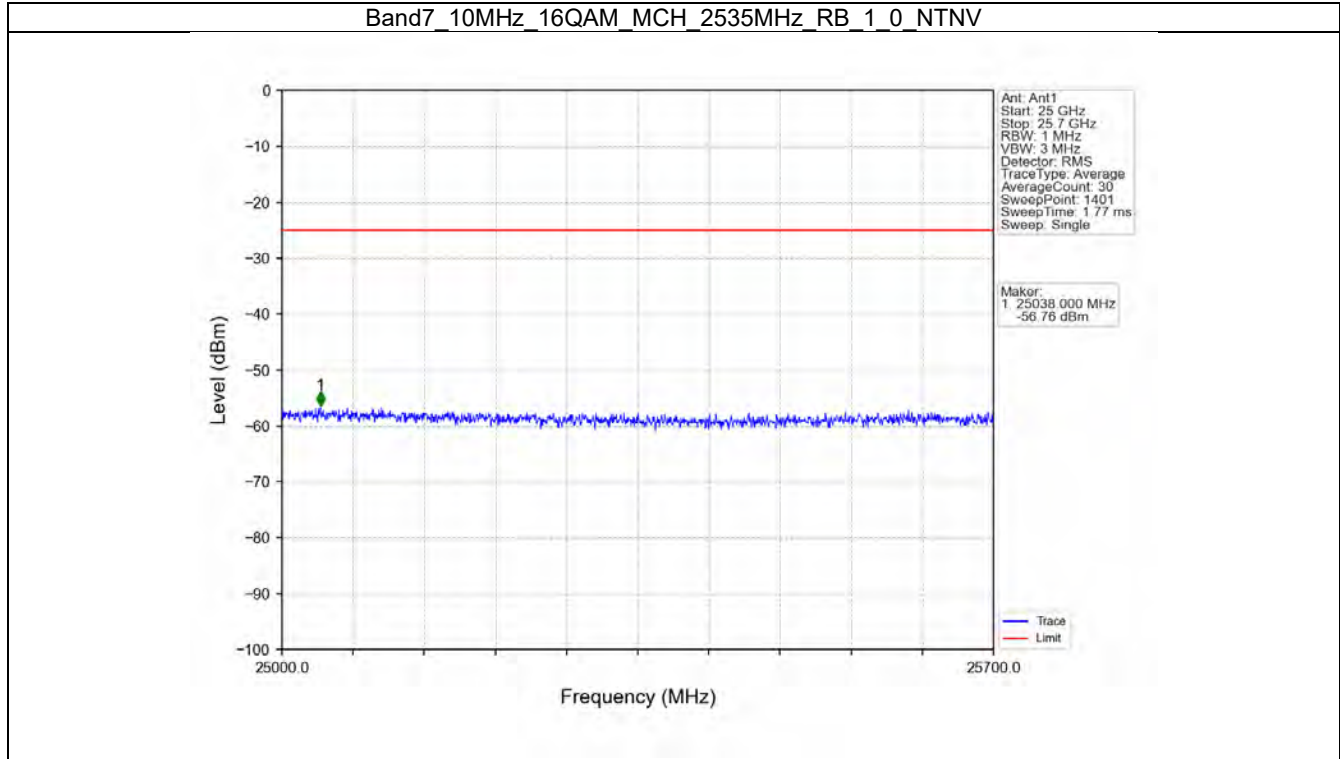
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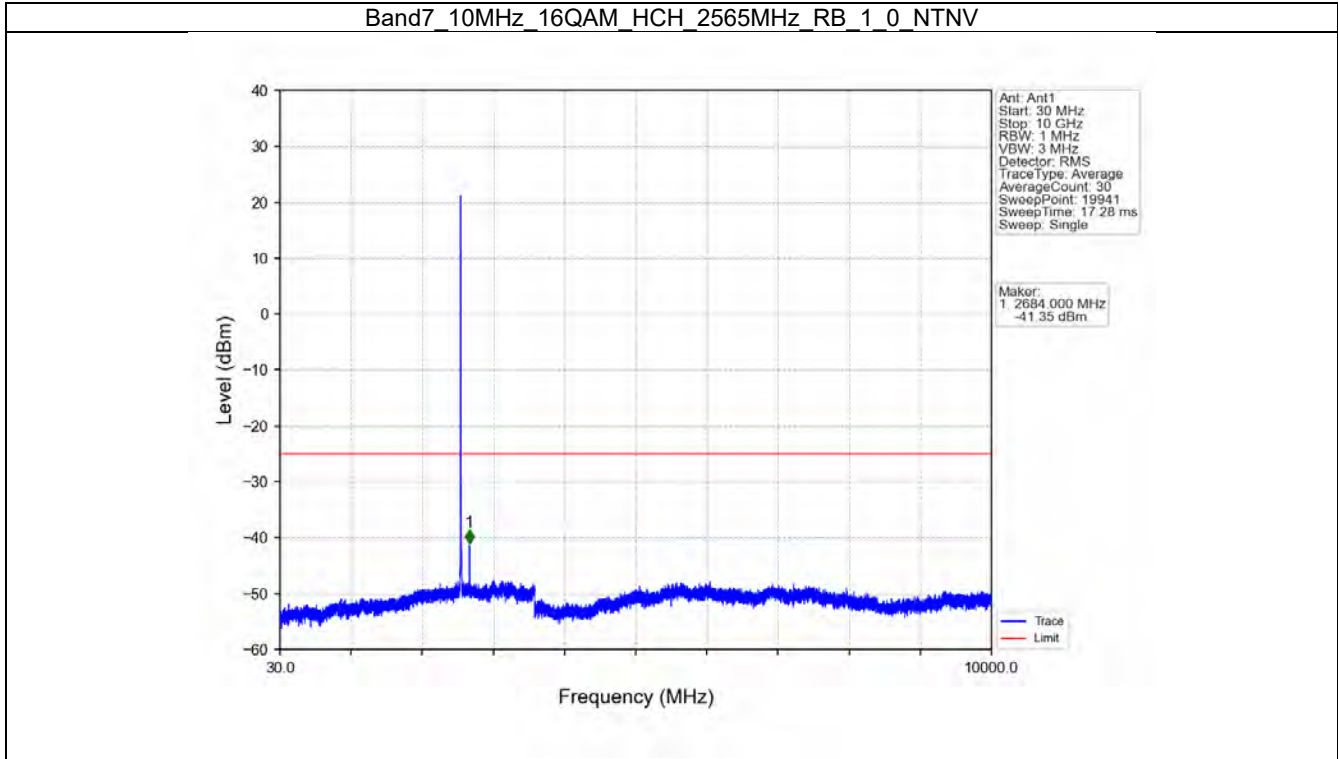
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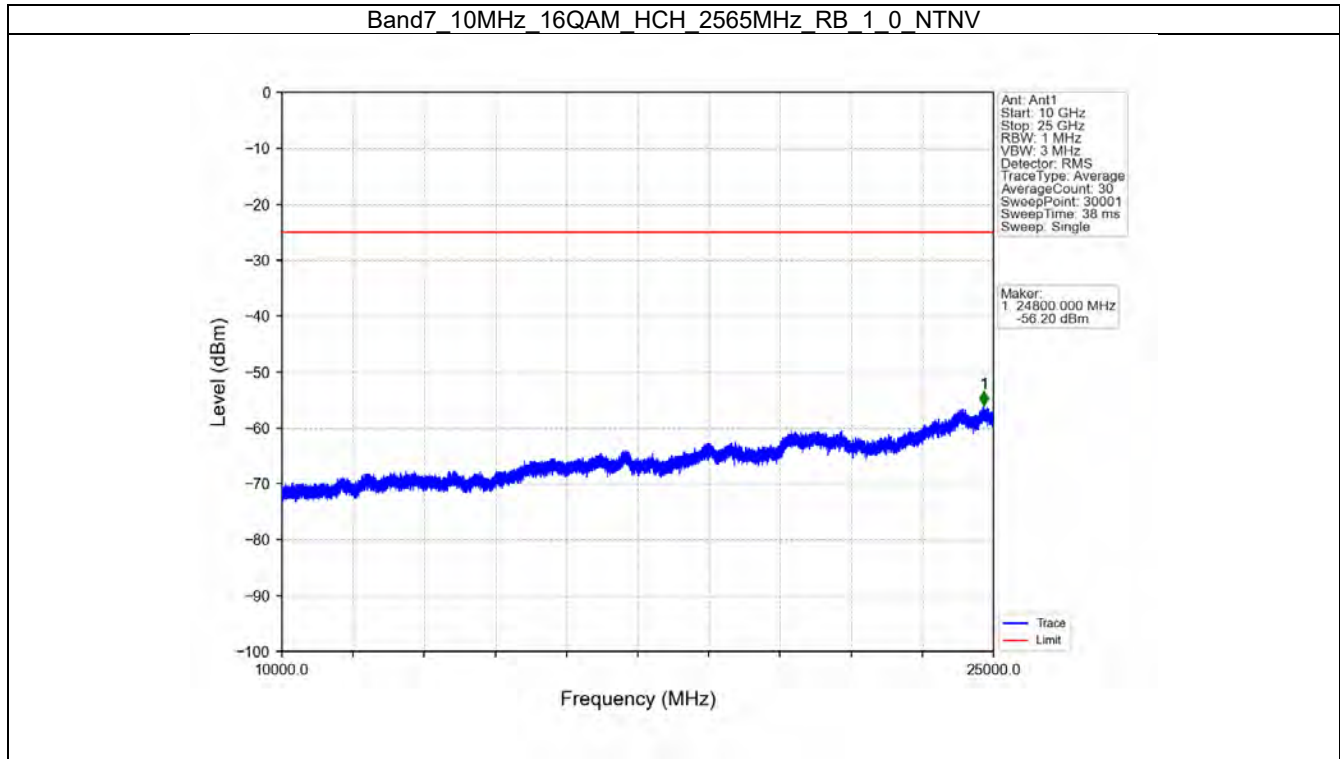
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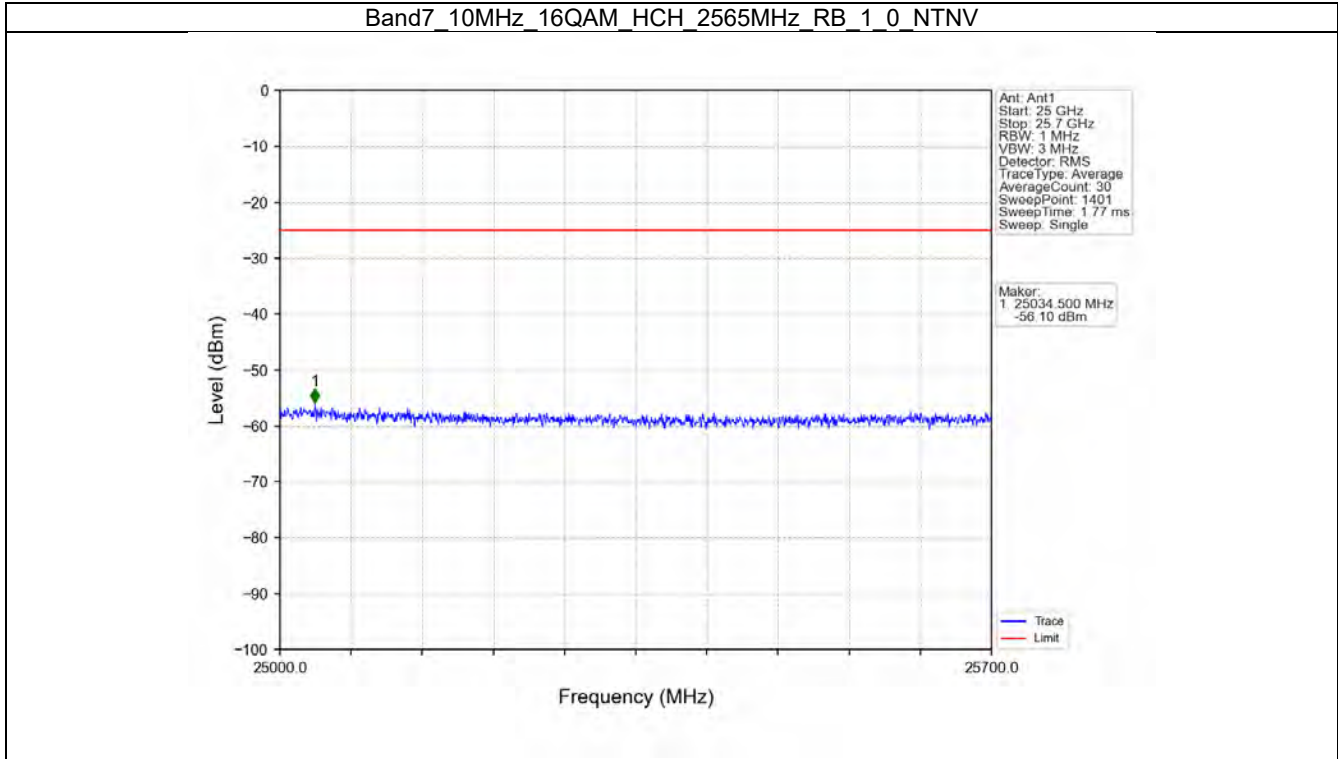
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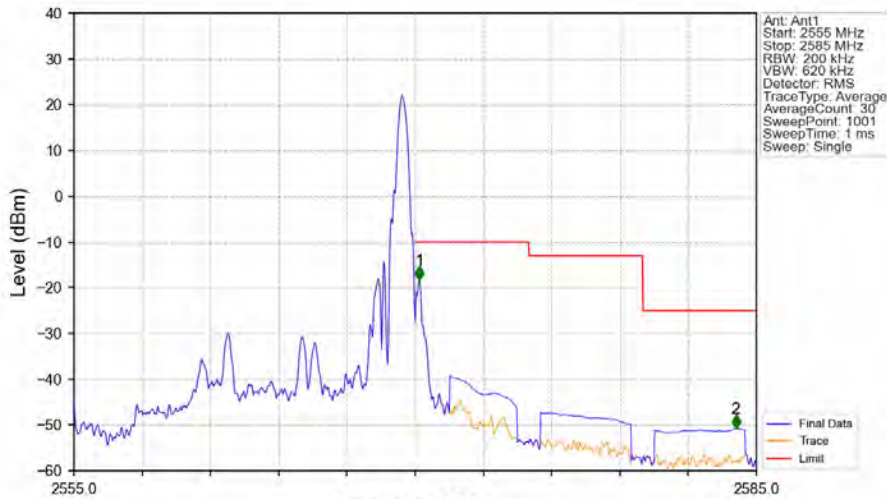




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Band7\_10MHz\_16QAM\_HCH\_2565MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	1	2570.180	-18.32	-10	Pass
2570	2571	0.2	/	1	2570.180	-18.32	-10	Pass
2571	2585	1	CHP	2	2584.100	-50.84	-25	Pass



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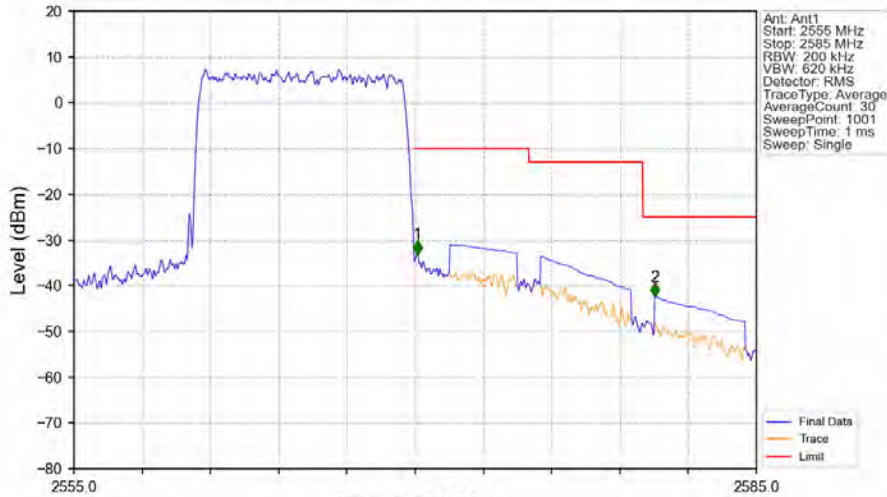
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Band7\_10MHz\_16QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	1	2570.090	-33.18	-10	Pass
2570	2571	0.2	/	1	2570.090	-33.18	-10	Pass
2571	2585	1	CHP	2	2580.530	-42.40	-25	Pass



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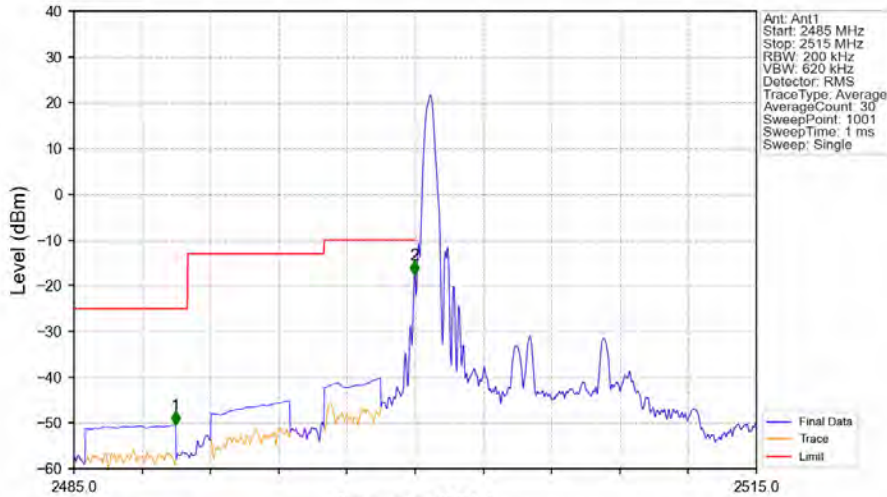
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Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.470	-50.47	-25	Pass
2499	2500	0.2	/	2	2499.970	-17.62	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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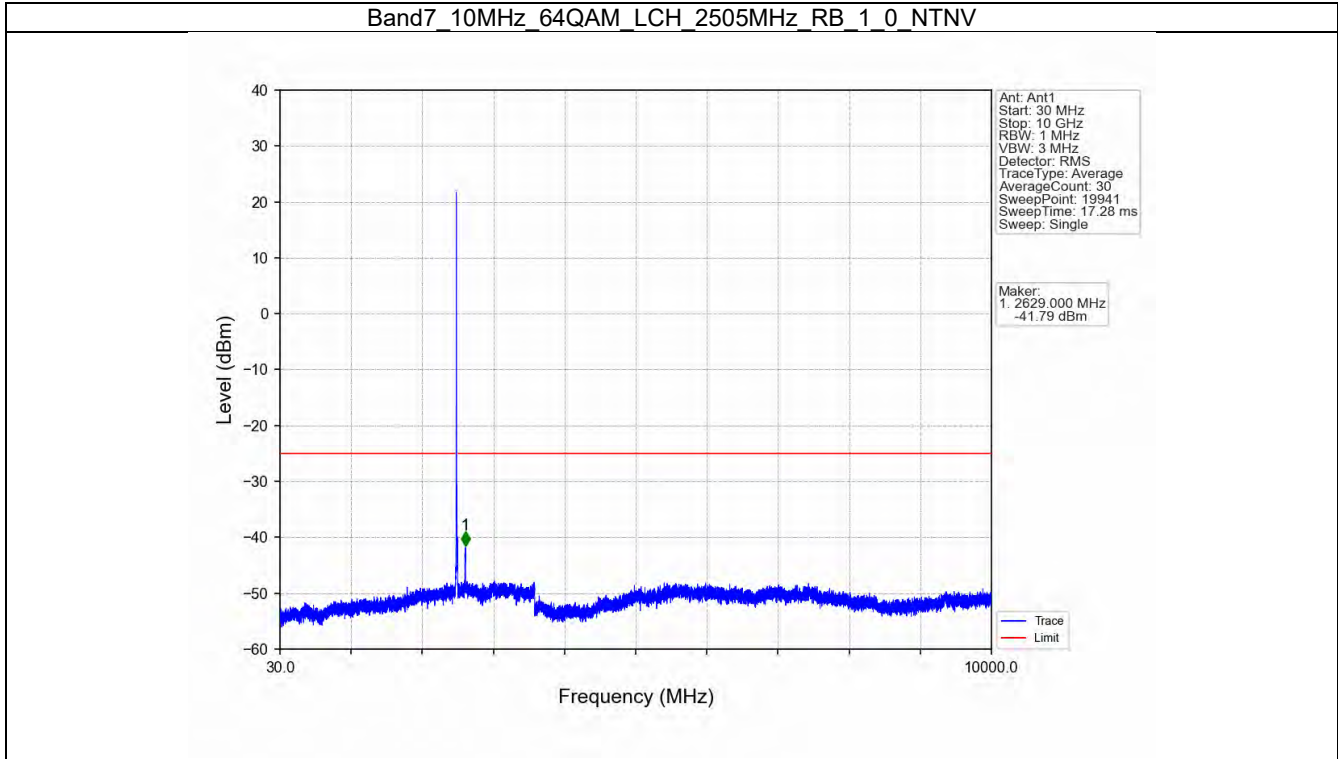
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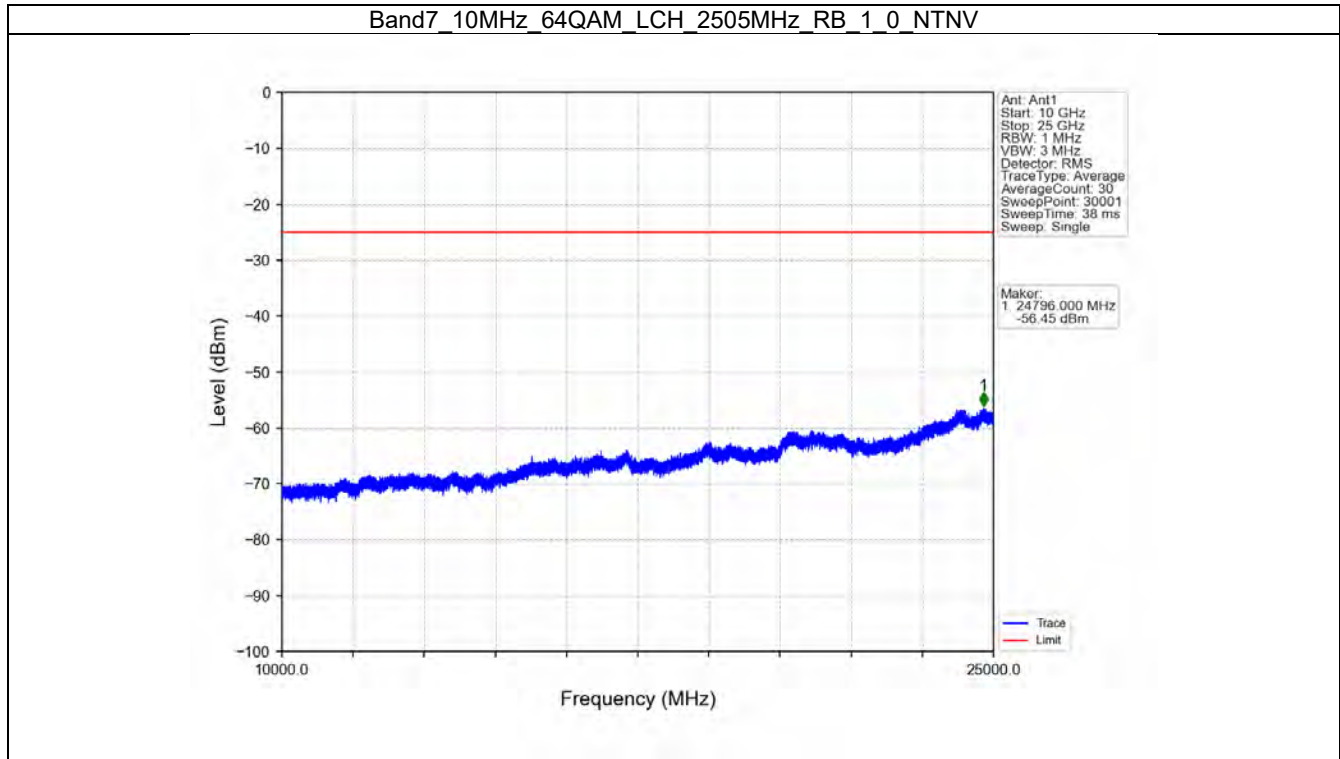


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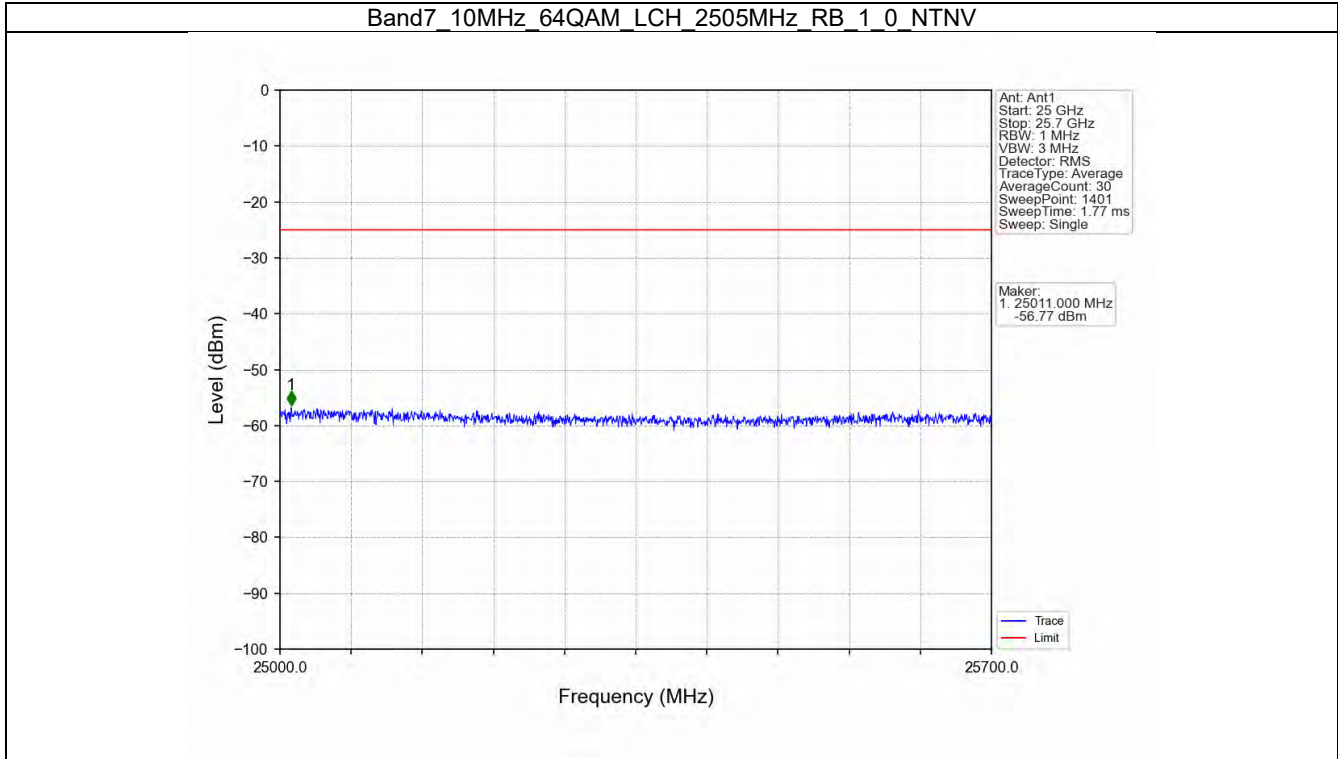
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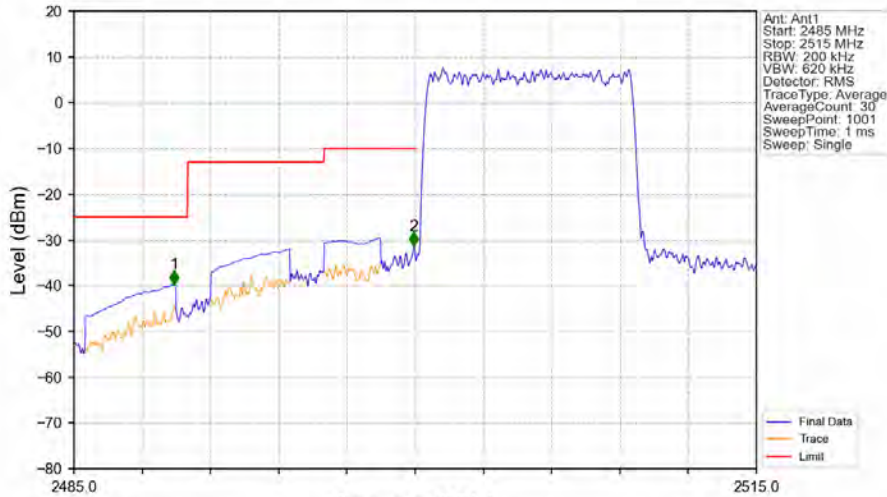
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Band7\_10MHz\_64QAM\_LCH\_2505MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.410	-39.73	-25	Pass
2499	2500	0.2	/	2	2499.940	-31.40	-10	Pass
2500	2515	0.2	/	/	/	/	/	/



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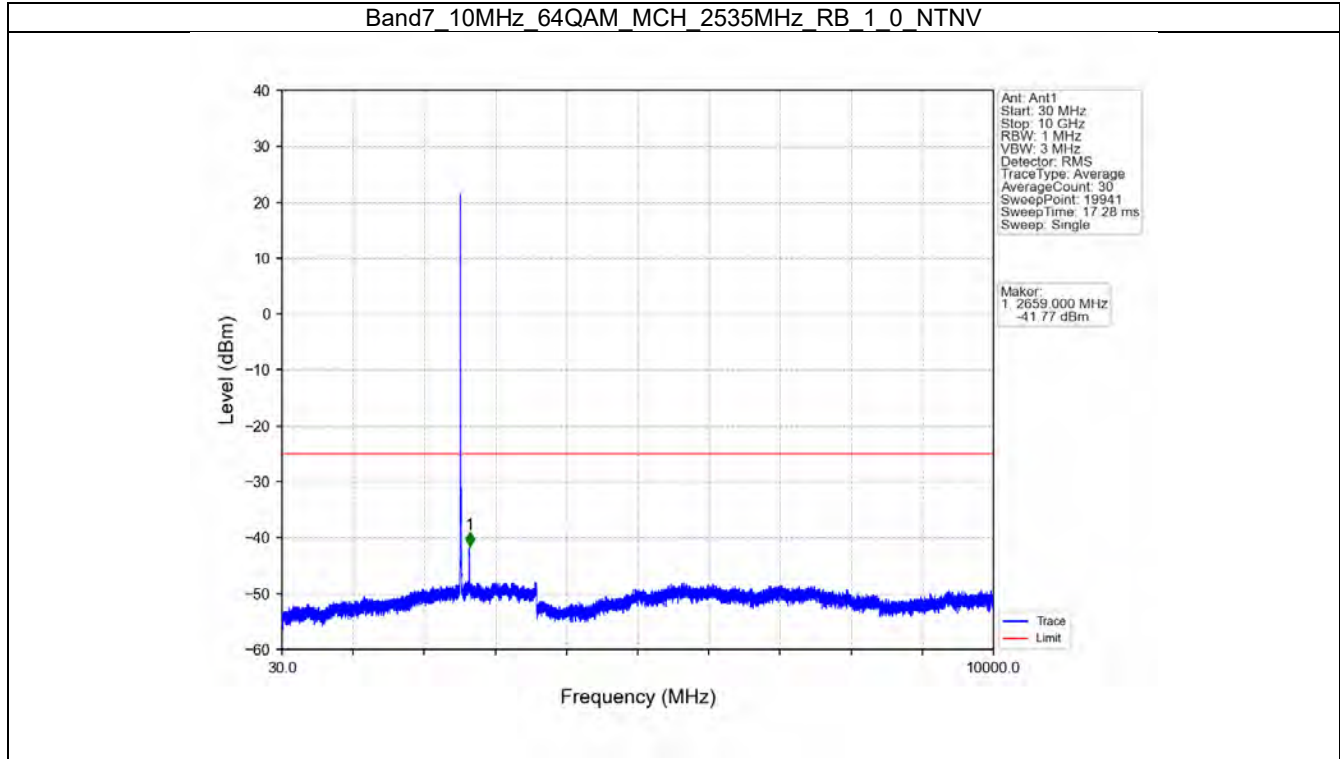
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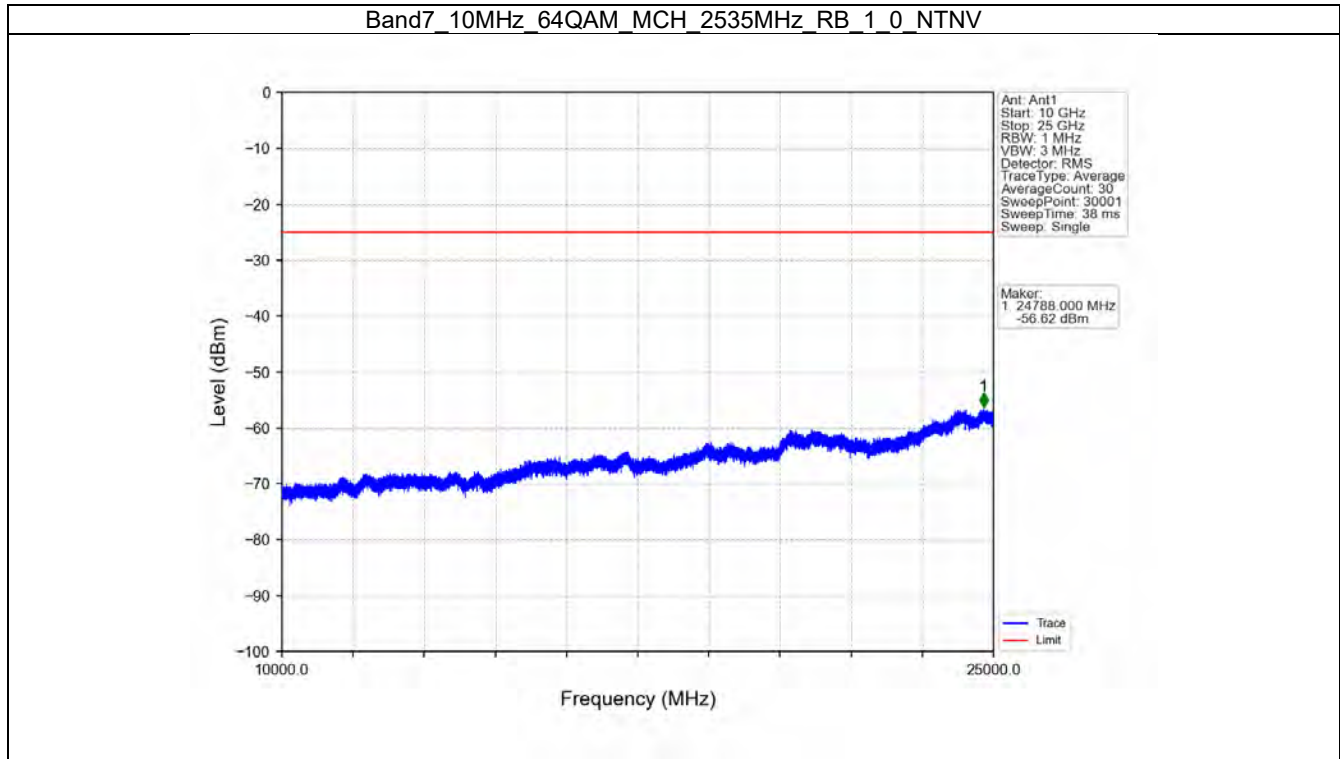
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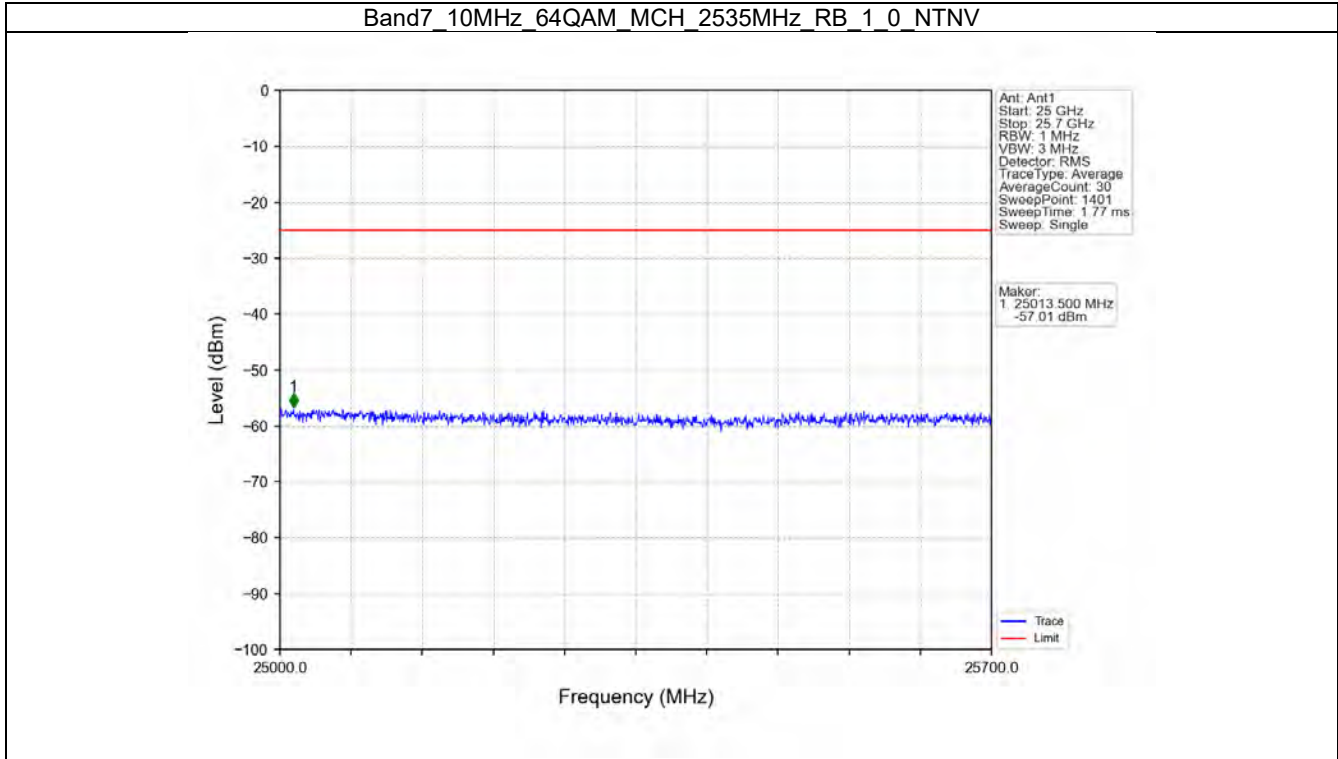
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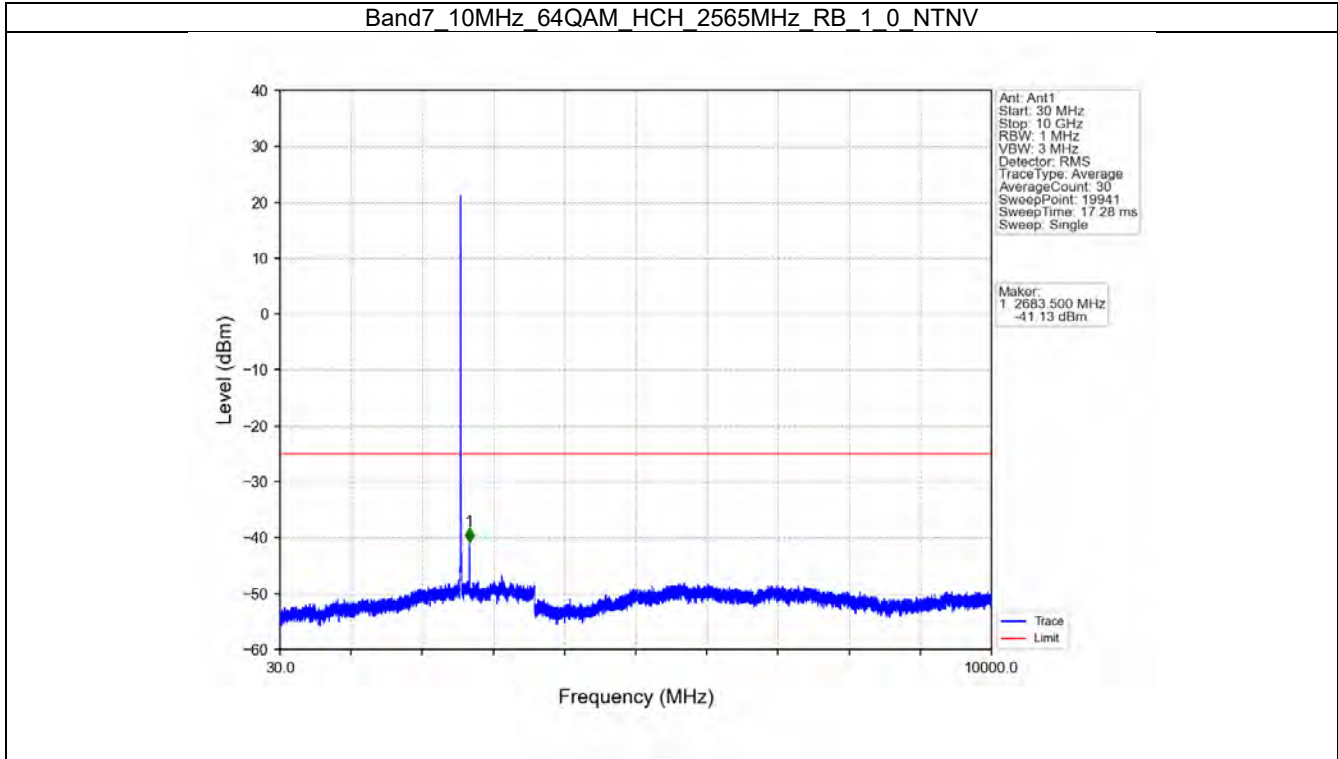
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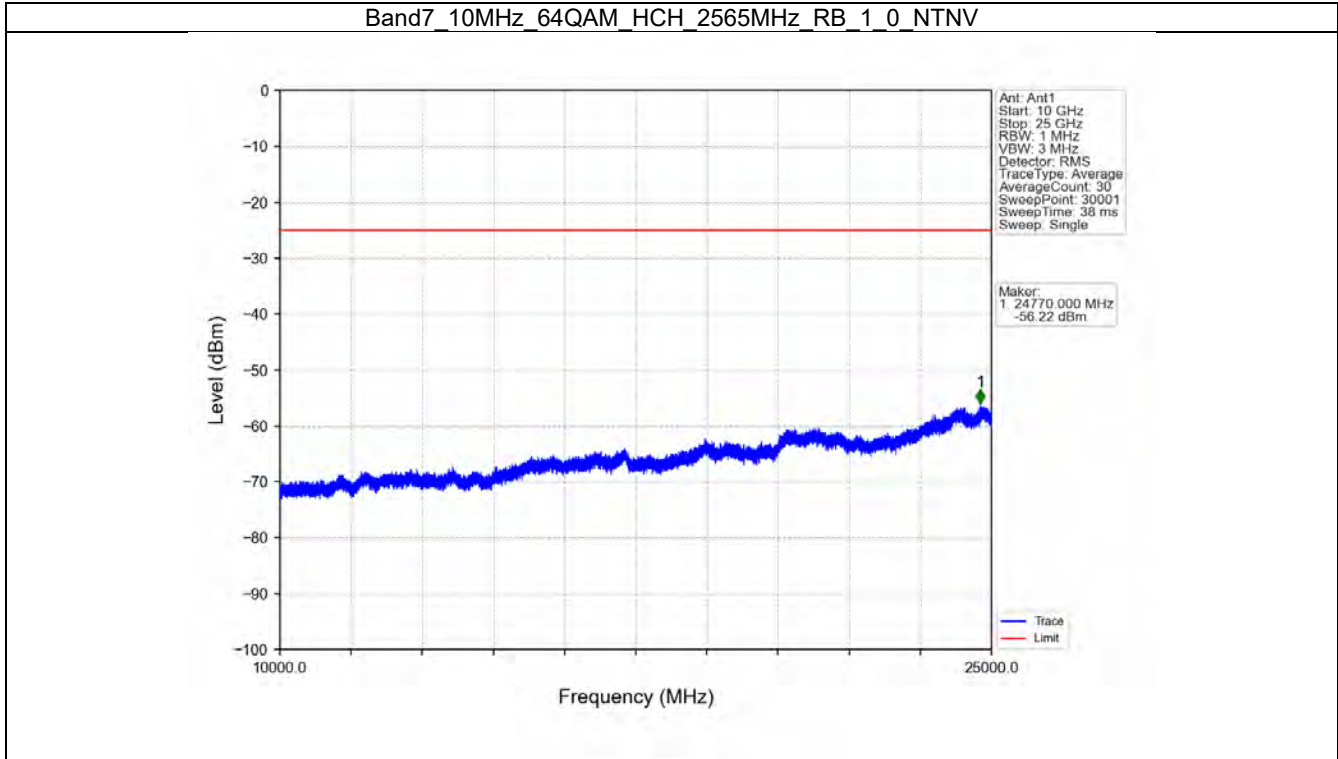
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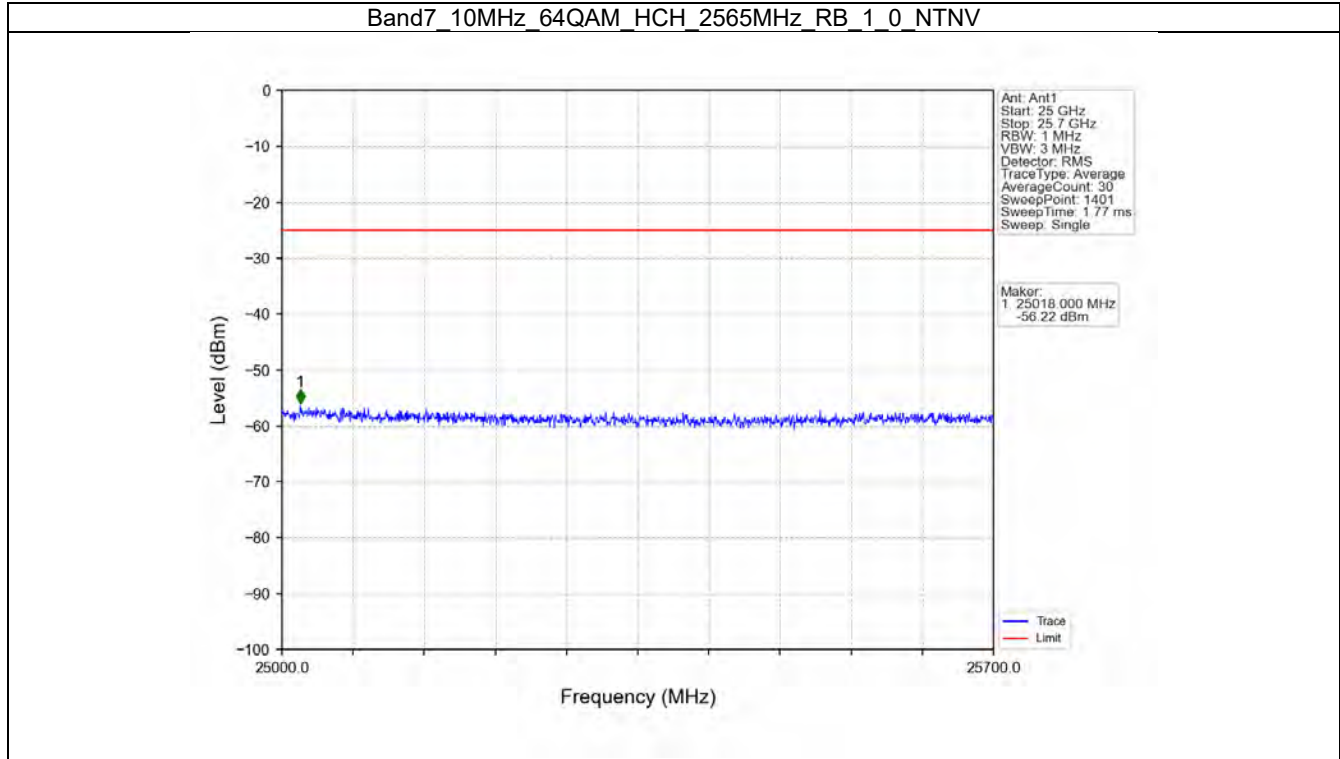
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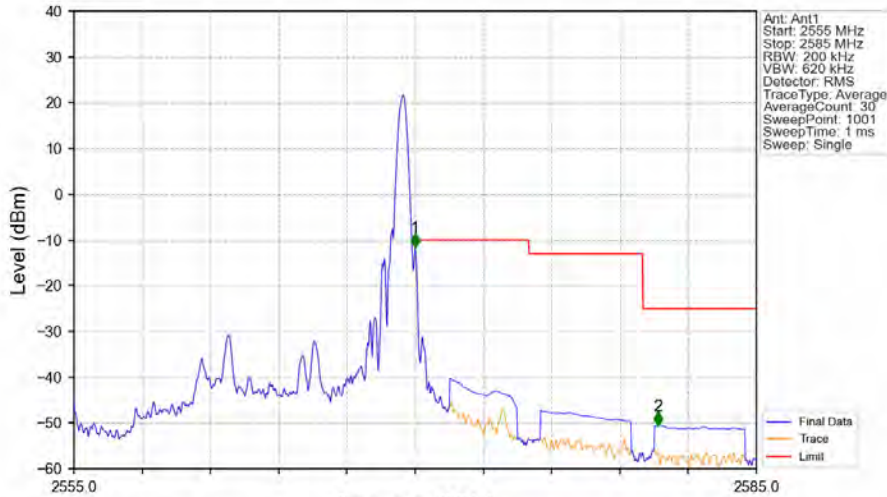
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Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	1	2570.000	-11.62	-10	Pass
2570	2571	0.2	/	2	2580.660	-50.62	-25	Pass
2571	2585	1	CHP					



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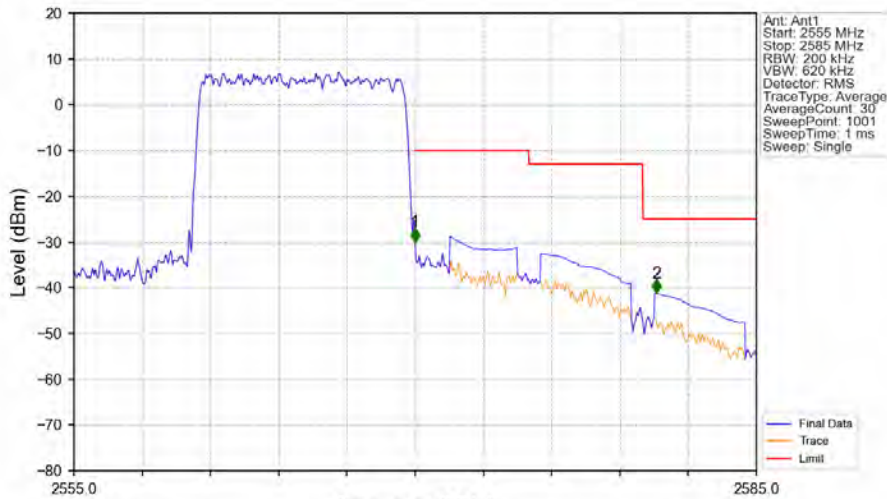
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Band7\_10MHz\_64QAM\_HCH\_2565MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	1	2570.000	-29.99	-10	Pass
2570	2571	0.2	/	1	2570.000	-29.99	-10	Pass
2571	2585	1	CHP	2	2580.620	-41.28	-25	Pass



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## 5.3 B7\_15MHz

### 5.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	2535	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	2562.5	1	0	Refer To Test Graph	Pass	
		74	0	Refer To Test Graph	Pass	
16QAM	2507.5	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	2535	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	2562.5	1	0	Refer To Test Graph	Pass	
		74	0	Refer To Test Graph	Pass	
64QAM	2507.5	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	2535	1	0	Refer To Test Graph	Pass	
		75	0	Refer To Test Graph	Pass	
	2562.5	1	0	Refer To Test Graph	Pass	
		74	0	Refer To Test Graph	Pass	
2562.5	75	0	Refer To Test Graph	Pass		



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