



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

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Appendix B.15

LTE Band 38



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 Shenzhen Branch, Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

Ant0

1.1 B38_5MHz_EIRP

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTN/V										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2572.5	1	0	23.85	0.10	23.95	<=33.01	Pass		
			13	23.75	0.10	23.85	<=33.01	Pass		
			24	23.91	0.10	24.01	<=33.01	Pass		
		12	0	23.07	0.10	23.17	<=33.01	Pass		
			6	23.02	0.10	23.12	<=33.01	Pass		
			13	22.93	0.10	23.03	<=33.01	Pass		
		25	0	22.98	0.10	23.08	<=33.01	Pass		
		2595	1	0	23.77	0.10	23.87	<=33.01	Pass	
				13	23.76	0.10	23.86	<=33.01	Pass	
	24			23.76	0.10	23.86	<=33.01	Pass		
	12		0	22.90	0.10	23.00	<=33.01	Pass		
			6	22.80	0.10	22.90	<=33.01	Pass		
			13	22.75	0.10	22.85	<=33.01	Pass		
	25		0	22.95	0.10	23.05	<=33.01	Pass		
	2617.5		1	0	23.67	0.10	23.77	<=33.01	Pass	
				13	23.75	0.10	23.85	<=33.01	Pass	
		24		23.67	0.10	23.77	<=33.01	Pass		
		12	0	23.18	0.10	23.28	<=33.01	Pass		
			6	23.14	0.10	23.24	<=33.01	Pass		
			13	23.17	0.10	23.27	<=33.01	Pass		
		25	0	23.29	0.10	23.39	<=33.01	Pass		
		16QAM	2572.5	1	0	23.46	0.10	23.56	<=33.01	Pass
					13	23.40	0.10	23.50	<=33.01	Pass
	24				23.32	0.10	23.42	<=33.01	Pass	
12	0			21.90	0.10	22.00	<=33.01	Pass		
	6			21.86	0.10	21.96	<=33.01	Pass		
	13			21.87	0.10	21.97	<=33.01	Pass		
25	0			21.99	0.10	22.09	<=33.01	Pass		
2595	1			0	23.32	0.10	23.42	<=33.01	Pass	
				13	23.30	0.10	23.40	<=33.01	Pass	
			24	23.25	0.10	23.35	<=33.01	Pass		
	12		0	21.89	0.10	21.99	<=33.01	Pass		
			6	21.85	0.10	21.95	<=33.01	Pass		
			13	21.83	0.10	21.93	<=33.01	Pass		
	25		0	21.75	0.10	21.85	<=33.01	Pass		
	2617.5		1	0	23.11	0.10	23.21	<=33.01	Pass	



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64QAM		13	23.08	0.10	23.18	<=33.01	Pass		
			24	23.40	0.10	23.50	<=33.01	Pass	
		12	0	21.59	0.10	21.69	<=33.01	Pass	
			6	21.75	0.10	21.85	<=33.01	Pass	
			13	21.71	0.10	21.81	<=33.01	Pass	
	25	0	21.63	0.10	21.73	<=33.01	Pass		
	2572.5	1	0	22.91	0.10	23.01	<=33.01	Pass	
			13	23.18	0.10	23.28	<=33.01	Pass	
			24	22.66	0.10	22.76	<=33.01	Pass	
		12	0	21.99	0.10	22.09	<=33.01	Pass	
			6	21.96	0.10	22.06	<=33.01	Pass	
			13	21.95	0.10	22.05	<=33.01	Pass	
		25	0	21.92	0.10	22.02	<=33.01	Pass	
		2595	1	0	22.93	0.10	23.03	<=33.01	Pass
				13	22.77	0.10	22.87	<=33.01	Pass
24				22.88	0.10	22.98	<=33.01	Pass	
12			0	21.73	0.10	21.83	<=33.01	Pass	
			6	21.81	0.10	21.91	<=33.01	Pass	
			13	21.74	0.10	21.84	<=33.01	Pass	
25			0	21.73	0.10	21.83	<=33.01	Pass	
2617.5			1	0	22.61	0.10	22.71	<=33.01	Pass
	13			22.74	0.10	22.84	<=33.01	Pass	
	24	22.81		0.10	22.91	<=33.01	Pass		
	12	0	21.63	0.10	21.73	<=33.01	Pass		
		6	21.73	0.10	21.83	<=33.01	Pass		
		13	21.73	0.10	21.83	<=33.01	Pass		
	25	0	21.66	0.10	21.76	<=33.01	Pass		



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1.2 B38_10MHz_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2575	1	0	24.05	0.10	24.15	<=33.01	Pass	
			25	23.92	0.10	24.02	<=33.01	Pass	
			49	23.84	0.10	23.94	<=33.01	Pass	
		25	0	22.76	0.10	22.86	<=33.01	Pass	
			13	22.64	0.10	22.74	<=33.01	Pass	
			25	22.61	0.10	22.71	<=33.01	Pass	
		50	0	22.72	0.10	22.82	<=33.01	Pass	
		2595	1	0	23.87	0.10	23.97	<=33.01	Pass
				25	23.76	0.10	23.86	<=33.01	Pass
	49			23.78	0.10	23.88	<=33.01	Pass	
	25		0	22.55	0.10	22.65	<=33.01	Pass	
			13	22.70	0.10	22.80	<=33.01	Pass	
			25	22.75	0.10	22.85	<=33.01	Pass	
	50		0	22.60	0.10	22.70	<=33.01	Pass	
	2615		1	0	23.83	0.10	23.93	<=33.01	Pass
				25	23.69	0.10	23.79	<=33.01	Pass
		49		23.60	0.10	23.70	<=33.01	Pass	
		25	0	23.11	0.10	23.21	<=33.01	Pass	
			13	23.24	0.10	23.34	<=33.01	Pass	
			25	23.18	0.10	23.28	<=33.01	Pass	
	50	0	23.16	0.10	23.26	<=33.01	Pass		
	16QAM	2575	1	0	23.55	0.10	23.65	<=33.01	Pass
				25	23.37	0.10	23.47	<=33.01	Pass
				49	23.35	0.10	23.45	<=33.01	Pass
25			0	21.95	0.10	22.05	<=33.01	Pass	
			13	21.81	0.10	21.91	<=33.01	Pass	
			25	21.88	0.10	21.98	<=33.01	Pass	
50			0	21.82	0.10	21.92	<=33.01	Pass	
2595			1	0	23.26	0.10	23.36	<=33.01	Pass
				25	23.10	0.10	23.20	<=33.01	Pass
		49		23.16	0.10	23.26	<=33.01	Pass	
		25	0	21.75	0.10	21.85	<=33.01	Pass	
			13	21.84	0.10	21.94	<=33.01	Pass	
			25	21.77	0.10	21.87	<=33.01	Pass	
		50	0	21.75	0.10	21.85	<=33.01	Pass	
		2615	1	0	23.16	0.10	23.26	<=33.01	Pass
				25	23.06	0.10	23.16	<=33.01	Pass
49				23.17	0.10	23.27	<=33.01	Pass	
25			0	21.61	0.10	21.71	<=33.01	Pass	
			13	21.55	0.10	21.65	<=33.01	Pass	
			25	21.74	0.10	21.84	<=33.01	Pass	



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64QAM	2575	50	0	21.73	0.10	21.83	<=33.01	Pass	
			1	0	22.89	0.10	22.99	<=33.01	Pass
				25	22.79	0.10	22.89	<=33.01	Pass
		25	49	22.76	0.10	22.86	<=33.01	Pass	
			25	0	21.85	0.10	21.95	<=33.01	Pass
				13	21.87	0.10	21.97	<=33.01	Pass
		50	25	21.80	0.10	21.90	<=33.01	Pass	
			1	0	21.90	0.10	22.00	<=33.01	Pass
				0	22.24	0.10	22.34	<=33.01	Pass
	25	22.32		0.10	22.42	<=33.01	Pass		
	2595	1	49	22.92	0.10	23.02	<=33.01	Pass	
			25	0	21.77	0.10	21.87	<=33.01	Pass
				13	21.77	0.10	21.87	<=33.01	Pass
		25		21.73	0.10	21.83	<=33.01	Pass	
		50	0	21.75	0.10	21.85	<=33.01	Pass	
			1	0	22.63	0.10	22.73	<=33.01	Pass
				25	22.46	0.10	22.56	<=33.01	Pass
		49		22.49	0.10	22.59	<=33.01	Pass	
		2615	25	0	21.53	0.10	21.63	<=33.01	Pass
	13			21.57	0.10	21.67	<=33.01	Pass	
	25			21.73	0.10	21.83	<=33.01	Pass	
	50		25	21.73	0.10	21.83	<=33.01	Pass	
			1	0	21.73	0.10	21.83	<=33.01	Pass
				0	21.73	0.10	21.83	<=33.01	Pass
0	21.73			0.10	21.83	<=33.01	Pass		



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1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2577.5	1	0	23.95	0.10	24.05	<=33.01	Pass		
			38	23.89	0.10	23.99	<=33.01	Pass		
			74	23.98	0.10	24.08	<=33.01	Pass		
		36	0	22.90	0.10	23.00	<=33.01	Pass		
			18	22.94	0.10	23.04	<=33.01	Pass		
			39	22.83	0.10	22.93	<=33.01	Pass		
		75	0	22.82	0.10	22.92	<=33.01	Pass		
		2595	1	0	23.99	0.10	24.09	<=33.01	Pass	
				38	23.83	0.10	23.93	<=33.01	Pass	
	74			23.80	0.10	23.90	<=33.01	Pass		
	36		0	22.89	0.10	22.99	<=33.01	Pass		
			18	22.83	0.10	22.93	<=33.01	Pass		
			39	22.93	0.10	23.03	<=33.01	Pass		
	75		0	22.93	0.10	23.03	<=33.01	Pass		
	2612.5		1	0	23.71	0.10	23.81	<=33.01	Pass	
				38	23.66	0.10	23.76	<=33.01	Pass	
		74		23.64	0.10	23.74	<=33.01	Pass		
		36	0	23.17	0.10	23.27	<=33.01	Pass		
			18	23.19	0.10	23.29	<=33.01	Pass		
			39	23.18	0.10	23.28	<=33.01	Pass		
		75	0	23.27	0.10	23.37	<=33.01	Pass		
		16QAM	2577.5	1	0	23.52	0.10	23.62	<=33.01	Pass
					38	23.25	0.10	23.35	<=33.01	Pass
	74				23.43	0.10	23.53	<=33.01	Pass	
36	0			21.93	0.10	22.03	<=33.01	Pass		
	18			21.87	0.10	21.97	<=33.01	Pass		
	39			21.83	0.10	21.93	<=33.01	Pass		
75	0			22.02	0.10	22.12	<=33.01	Pass		
2595	1			0	23.21	0.10	23.31	<=33.01	Pass	
				38	23.22	0.10	23.32	<=33.01	Pass	
			74	23.11	0.10	23.21	<=33.01	Pass		
	36		0	21.77	0.10	21.87	<=33.01	Pass		
			18	21.77	0.10	21.87	<=33.01	Pass		
			39	21.80	0.10	21.90	<=33.01	Pass		
	75		0	21.92	0.10	22.02	<=33.01	Pass		
	2612.5		1	0	23.14	0.10	23.24	<=33.01	Pass	
				38	23.02	0.10	23.12	<=33.01	Pass	
74				22.97	0.10	23.07	<=33.01	Pass		
36			0	21.65	0.10	21.75	<=33.01	Pass		
			18	21.65	0.10	21.75	<=33.01	Pass		
			39	21.81	0.10	21.91	<=33.01	Pass		



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64QAM	2577.5	75	0	21.81	0.10	21.91	<=33.01	Pass	
			1	0	23.12	0.10	23.22	<=33.01	Pass
				38	22.43	0.10	22.53	<=33.01	Pass
		36	74	22.24	0.10	22.34	<=33.01	Pass	
			0	21.98	0.10	22.08	<=33.01	Pass	
			18	21.93	0.10	22.03	<=33.01	Pass	
		75	39	21.82	0.10	21.92	<=33.01	Pass	
			0	21.95	0.10	22.05	<=33.01	Pass	
			1	0	23.03	0.10	23.13	<=33.01	Pass
	38	23.21		0.10	23.31	<=33.01	Pass		
	74	23.08		0.10	23.18	<=33.01	Pass		
	2595	36	0	21.78	0.10	21.88	<=33.01	Pass	
			18	21.70	0.10	21.80	<=33.01	Pass	
			39	21.82	0.10	21.92	<=33.01	Pass	
	2612.5	75	0	21.90	0.10	22.00	<=33.01	Pass	
			1	0	22.99	0.10	23.09	<=33.01	Pass
				38	22.73	0.10	22.83	<=33.01	Pass
		74		22.77	0.10	22.87	<=33.01	Pass	
		36	0	21.69	0.10	21.79	<=33.01	Pass	
			18	21.75	0.10	21.85	<=33.01	Pass	
			39	21.63	0.10	21.73	<=33.01	Pass	
		75	0	21.72	0.10	21.82	<=33.01	Pass	



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1.4 B38_20MHz_EIRP

1.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2580	1	0	24.00	0.10	24.10	<=33.01	Pass		
			50	23.92	0.10	24.02	<=33.01	Pass		
			99	23.75	0.10	23.85	<=33.01	Pass		
		50	0	22.92	0.10	23.02	<=33.01	Pass		
			25	22.93	0.10	23.03	<=33.01	Pass		
			50	22.84	0.10	22.94	<=33.01	Pass		
		100	0	22.88	0.10	22.98	<=33.01	Pass		
		2595	1	0	24.02	0.10	24.12	<=33.01	Pass	
				50	23.87	0.10	23.97	<=33.01	Pass	
	99			23.87	0.10	23.97	<=33.01	Pass		
	50		0	22.77	0.10	22.87	<=33.01	Pass		
			25	22.73	0.10	22.83	<=33.01	Pass		
			50	22.88	0.10	22.98	<=33.01	Pass		
	100		0	22.72	0.10	22.82	<=33.01	Pass		
	2610		1	0	23.74	0.10	23.84	<=33.01	Pass	
				50	23.79	0.10	23.89	<=33.01	Pass	
		99		23.76	0.10	23.86	<=33.01	Pass		
		50	0	23.04	0.10	23.14	<=33.01	Pass		
			25	23.20	0.10	23.30	<=33.01	Pass		
			50	23.22	0.10	23.32	<=33.01	Pass		
		100	0	23.12	0.10	23.22	<=33.01	Pass		
		16QAM	2580	1	0	23.57	0.10	23.67	<=33.01	Pass
					50	23.51	0.10	23.61	<=33.01	Pass
	99				22.88	0.10	22.98	<=33.01	Pass	
50	0			21.92	0.10	22.02	<=33.01	Pass		
	25			21.99	0.10	22.09	<=33.01	Pass		
	50			21.94	0.10	22.04	<=33.01	Pass		
100	0			22.00	0.10	22.10	<=33.01	Pass		
2595	1			0	23.38	0.10	23.48	<=33.01	Pass	
				50	23.31	0.10	23.41	<=33.01	Pass	
			99	23.19	0.10	23.29	<=33.01	Pass		
	50		0	21.92	0.10	22.02	<=33.01	Pass		
			25	21.91	0.10	22.01	<=33.01	Pass		
			50	21.88	0.10	21.98	<=33.01	Pass		
	100		0	21.90	0.10	22.00	<=33.01	Pass		
	2610		1	0	23.39	0.10	23.49	<=33.01	Pass	
				50	23.05	0.10	23.15	<=33.01	Pass	
99				23.31	0.10	23.41	<=33.01	Pass		
50			0	21.79	0.10	21.89	<=33.01	Pass		
			25	21.83	0.10	21.93	<=33.01	Pass		
			50	21.72	0.10	21.82	<=33.01	Pass		



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64QAM	2580	100	0	21.83	0.10	21.93	<=33.01	Pass	
			1	0	22.76	0.10	22.86	<=33.01	Pass
				50	22.74	0.10	22.84	<=33.01	Pass
		50	99	22.54	0.10	22.64	<=33.01	Pass	
			50	0	21.94	0.10	22.04	<=33.01	Pass
				25	21.96	0.10	22.06	<=33.01	Pass
		100	50	21.92	0.10	22.02	<=33.01	Pass	
			100	0	21.97	0.10	22.07	<=33.01	Pass
				1	0	22.58	0.10	22.68	<=33.01
	2595	1	50		22.68	0.10	22.78	<=33.01	Pass
			99		22.69	0.10	22.79	<=33.01	Pass
			50	0	21.81	0.10	21.91	<=33.01	Pass
	50	25		21.78	0.10	21.88	<=33.01	Pass	
		50		21.86	0.10	21.96	<=33.01	Pass	
	2610	100	0	21.81	0.10	21.91	<=33.01	Pass	
			1	0	22.63	0.10	22.73	<=33.01	Pass
				50	22.65	0.10	22.75	<=33.01	Pass
		99		22.54	0.10	22.64	<=33.01	Pass	
		50	50	0	21.80	0.10	21.90	<=33.01	Pass
				25	21.74	0.10	21.84	<=33.01	Pass
				50	21.73	0.10	21.83	<=33.01	Pass
		100	0	21.78	0.10	21.88	<=33.01	Pass	



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2. Frequency Stability

2.1 B38_5MHz

2.1.1 Test Result

Band: 38 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2572.5	25	0	20	3.91	-2.525	-0.0010	/	Pass	
					3.5	-2.376	-0.0009	/	Pass	
					4.5	0.068	0.0000	/	Pass	
				-30	3.91	-2.444	-0.0010	/	Pass	
					-20	3.91	1.043	0.0004	/	Pass
						-10	3.91	0.965	0.0004	/
				0	3.91	-0.615	-0.0002	/	Pass	
					10	3.91	-3.128	-0.0012	/	Pass
				30	3.91	-6.080	-0.0024	/	Pass	
	40	3.91	-3.096	-0.0012	/	Pass				
	50	3.91	-5.670	-0.0022	/	Pass				
	2595	25	0	20	3.91	0.787	0.0003	/	Pass	
					3.5	-1.122	-0.0004	/	Pass	
					4.5	4.767	0.0018	/	Pass	
				-30	3.91	0.845	0.0003	/	Pass	
					-20	3.91	-1.222	-0.0005	/	Pass
						-10	3.91	-2.490	-0.0010	/
				0	3.91	-1.143	-0.0004	/	Pass	
					10	3.91	-0.337	-0.0001	/	Pass
				30	3.91	-0.398	-0.0002	/	Pass	
	40	3.91	-3.791	-0.0015	/	Pass				
	50	3.91	0.263	0.0001	/	Pass				
	2617.5	25	0	20	3.91	-3.366	-0.0013	/	Pass	
					3.5	-5.585	-0.0021	/	Pass	
					4.5	-3.755	-0.0014	/	Pass	
				-30	3.91	-2.690	-0.0010	/	Pass	
					-20	3.91	1.405	0.0005	/	Pass
-10						3.91	-4.621	-0.0018	/	Pass
0				3.91	-0.654	-0.0002	/	Pass		
				10	3.91	-5.531	-0.0021	/	Pass	
30				3.91	-4.539	-0.0017	/	Pass		
40	3.91	-2.455	-0.0009	/	Pass					
50	3.91	-0.887	-0.0003	/	Pass					
16QAM	2572.5	25	0	20	3.91	4.557	0.0018	/	Pass	
					3.5	-0.397	-0.0002	/	Pass	
					4.5	-0.705	-0.0003	/	Pass	
				-30	3.91	2.270	0.0009	/	Pass	
					-20	3.91	-1.862	-0.0007	/	Pass
-10	3.91	-4.176	-0.0016	/	Pass					



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64QAM				0	3.91	-1.820	-0.0007	/	Pass
				10	3.91	3.394	0.0013	/	Pass
				30	3.91	-2.523	-0.0010	/	Pass
				40	3.91	0.491	0.0002	/	Pass
				50	3.91	-1.417	-0.0006	/	Pass
	2595	25	0	20	3.91	3.555	0.0014	/	Pass
					3.5	1.034	0.0004	/	Pass
					4.5	-1.492	-0.0006	/	Pass
				-30	3.91	-2.713	-0.0010	/	Pass
				-20	3.91	4.028	0.0016	/	Pass
				-10	3.91	1.826	0.0007	/	Pass
				0	3.91	-2.750	-0.0011	/	Pass
				10	3.91	-0.195	-0.0001	/	Pass
				30	3.91	-0.129	0.0000	/	Pass
				40	3.91	-0.796	-0.0003	/	Pass
				50	3.91	1.096	0.0004	/	Pass
	2617.5	25	0	20	3.91	-1.348	-0.0005	/	Pass
					3.5	0.341	0.0001	/	Pass
					4.5	-1.113	-0.0004	/	Pass
				-30	3.91	-5.547	-0.0021	/	Pass
				-20	3.91	-0.665	-0.0003	/	Pass
				-10	3.91	-1.672	-0.0006	/	Pass
				0	3.91	0.810	0.0003	/	Pass
				10	3.91	2.119	0.0008	/	Pass
				30	3.91	1.354	0.0005	/	Pass
				40	3.91	1.452	0.0006	/	Pass
				50	3.91	-1.216	-0.0005	/	Pass
	2572.5	25	0	20	3.91	-5.540	-0.0022	/	Pass
					3.5	-1.488	-0.0006	/	Pass
					4.5	-2.939	-0.0011	/	Pass
				-30	3.91	-0.584	-0.0002	/	Pass
				-20	3.91	-1.143	-0.0004	/	Pass
				-10	3.91	0.598	0.0002	/	Pass
				0	3.91	-0.528	-0.0002	/	Pass
				10	3.91	0.928	0.0004	/	Pass
				30	3.91	-3.512	-0.0014	/	Pass
40				3.91	2.429	0.0009	/	Pass	
50				3.91	-0.971	-0.0004	/	Pass	
2595	25	0	20	3.91	-1.924	-0.0007	/	Pass	
				3.5	2.004	0.0008	/	Pass	
				4.5	0.415	0.0002	/	Pass	
			-30	3.91	1.246	0.0005	/	Pass	
			-20	3.91	-1.834	-0.0007	/	Pass	
			-10	3.91	-3.748	-0.0014	/	Pass	
			0	3.91	-3.824	-0.0015	/	Pass	
			10	3.91	-2.483	-0.0010	/	Pass	
			30	3.91	-3.062	-0.0012	/	Pass	
			40	3.91	-2.041	-0.0008	/	Pass	
			50	3.91	-5.112	-0.0020	/	Pass	



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2617.5	25	0	20	3.91	0.311	0.0001	/	Pass
				3.5	-0.468	-0.0002	/	Pass
				4.5	3.669	0.0014	/	Pass
			-30	3.91	-1.798	-0.0007	/	Pass
			-20	3.91	-2.701	-0.0010	/	Pass
			-10	3.91	-2.726	-0.0010	/	Pass
			0	3.91	1.737	0.0007	/	Pass
			10	3.91	0.588	0.0002	/	Pass
			30	3.91	-4.828	-0.0018	/	Pass
			40	3.91	-4.251	-0.0016	/	Pass
			50	3.91	-4.408	-0.0017	/	Pass



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2.2 B38_10MHz

2.2.1 Test Result

Band: 38 / Bandwidth: 10MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	2575	50	0	20	3.91	-2.867	-0.0011	/	Pass			
					3.5	-3.597	-0.0014	/	Pass			
					4.5	2.090	0.0008	/	Pass			
				-30	3.91	-1.139	-0.0004	/	Pass			
					-20	3.91	0.166	0.0001	/	Pass		
					-10	3.91	-0.879	-0.0003	/	Pass		
				0	0	3.91	-1.156	-0.0004	/	Pass		
					10	3.91	-5.136	-0.0020	/	Pass		
					30	3.91	0.806	0.0003	/	Pass		
				40	3.91	0.438	0.0002	/	Pass			
					50	3.91	2.719	0.0011	/	Pass		
					20	3.91	-4.576	-0.0018	/	Pass		
	2595	50	0	20	3.5	-5.187	-0.0020	/	Pass			
					4.5	3.236	0.0012	/	Pass			
					-30	3.91	-0.686	-0.0003	/	Pass		
				-20	3.91	3.235	0.0012	/	Pass			
					-10	3.91	3.355	0.0013	/	Pass		
					0	3.91	2.622	0.0010	/	Pass		
				10	3.91	-1.920	-0.0007	/	Pass			
					30	3.91	2.214	0.0009	/	Pass		
					40	3.91	0.280	0.0001	/	Pass		
				50	3.91	-2.734	-0.0011	/	Pass			
				2615	50	0	20	3.91	-5.076	-0.0019	/	Pass
								3.5	-1.606	-0.0006	/	Pass
	4.5	0.016	0.0000					/	Pass			
	-30	3.91	-1.837				-0.0007	/	Pass			
		-20	3.91				0.023	0.0000	/	Pass		
		-10	3.91				-4.335	-0.0017	/	Pass		
	0	0	3.91				2.156	0.0008	/	Pass		
		10	3.91				1.640	0.0006	/	Pass		
30		3.91	-3.336				-0.0013	/	Pass			
40	3.91	-2.573	-0.0010				/	Pass				
	50	3.91	-5.313				-0.0020	/	Pass			
	20	3.91	-0.748				-0.0003	/	Pass			
16QAM	2575	50	0	20	3.5	0.291	0.0001	/	Pass			
					4.5	1.627	0.0006	/	Pass			
					-30	3.91	-1.445	-0.0006	/	Pass		
				-20	3.91	-1.094	-0.0004	/	Pass			
					-10	3.91	-1.291	-0.0005	/	Pass		
					0	3.91	1.110	0.0004	/	Pass		
				10	3.91	-0.520	-0.0002	/	Pass			



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64QAM	2595	50	0	30	3.91	1.007	0.0004	/	Pass		
				40	3.91	-0.252	-0.0001	/	Pass		
				50	3.91	0.348	0.0001	/	Pass		
				20	3.91	-0.819	-0.0003	/	Pass		
					3.5	-2.250	-0.0009	/	Pass		
					4.5	-0.991	-0.0004	/	Pass		
				-30	3.91	-0.669	-0.0003	/	Pass		
				-20	3.91	1.264	0.0005	/	Pass		
				-10	3.91	-0.384	-0.0001	/	Pass		
				0	3.91	3.155	0.0012	/	Pass		
	10	3.91	5.745	0.0022	/	Pass					
	30	3.91	-1.277	-0.0005	/	Pass					
	40	3.91	-0.657	-0.0003	/	Pass					
	50	3.91	-4.655	-0.0018	/	Pass					
	2615	50	0	20	3.91	-3.620	-0.0014	/	Pass		
					3.5	-2.067	-0.0008	/	Pass		
					4.5	-5.162	-0.0020	/	Pass		
				-30	3.91	-1.252	-0.0005	/	Pass		
				-20	3.91	-5.615	-0.0021	/	Pass		
				-10	3.91	-1.090	-0.0004	/	Pass		
0				3.91	-4.171	-0.0016	/	Pass			
10				3.91	-0.483	-0.0002	/	Pass			
30				3.91	-1.629	-0.0006	/	Pass			
40				3.91	-1.456	-0.0006	/	Pass			
50	3.91	-1.222	-0.0005	/	Pass						
2575	50	0	20	3.91	-0.342	-0.0001	/	Pass			
				3.5	-0.311	-0.0001	/	Pass			
				4.5	1.829	0.0007	/	Pass			
			-30	3.91	0.490	0.0002	/	Pass			
			-20	3.91	2.599	0.0010	/	Pass			
			-10	3.91	-1.157	-0.0004	/	Pass			
			0	3.91	-0.563	-0.0002	/	Pass			
			10	3.91	-2.561	-0.0010	/	Pass			
			30	3.91	2.031	0.0008	/	Pass			
			40	3.91	-0.050	0.0000	/	Pass			
			50	3.91	-4.503	-0.0017	/	Pass			
			2595	50	0	20	3.91	0.356	0.0001	/	Pass
							3.5	0.486	0.0002	/	Pass
4.5	-1.441	-0.0006					/	Pass			
-30	3.91	1.231				0.0005	/	Pass			
-20	3.91	2.214				0.0009	/	Pass			
-10	3.91	-0.706				-0.0003	/	Pass			
0	3.91	2.799				0.0011	/	Pass			
10	3.91	-2.394				-0.0009	/	Pass			
30	3.91	-3.157				-0.0012	/	Pass			
40	3.91	-0.413				-0.0002	/	Pass			
50	3.91	1.672	0.0006	/	Pass						
2615	50	0	20	3.91	-3.856	-0.0015	/	Pass			
				3.5	-3.280	-0.0013	/	Pass			



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				4.5	-5.239	-0.0020	/	Pass
				-30	3.91	-2.845	-0.0011	Pass
				-20	3.91	-4.172	-0.0016	Pass
				-10	3.91	-0.939	-0.0004	Pass
				0	3.91	-4.613	-0.0018	Pass
				10	3.91	-0.664	-0.0003	Pass
				30	3.91	-2.581	-0.0010	Pass
				40	3.91	-0.749	-0.0003	Pass
				50	3.91	0.522	0.0002	Pass



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2.3 B38_15MHz

2.3.1 Test Result

Band: 38 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2577.5	75	0	20	3.91	-2.963	-0.0011	/	Pass	
					3.5	-2.478	-0.0010	/	Pass	
					4.5	-0.905	-0.0004	/	Pass	
				-30	3.91	1.284	0.0005	/	Pass	
					-20	3.91	2.769	0.0011	/	Pass
					-10	3.91	-2.945	-0.0011	/	Pass
				0	3.91	0.570	0.0002	/	Pass	
					10	3.91	-1.345	-0.0005	/	Pass
					30	3.91	0.848	0.0003	/	Pass
				40	3.91	1.060	0.0004	/	Pass	
					50	3.91	0.454	0.0002	/	Pass
					20	3.91	2.244	0.0009	/	Pass
	3.5	1.150	0.0004	/		Pass				
	4.5	-1.152	-0.0004	/		Pass				
	-30	3.91	-2.165	-0.0008	/	Pass				
		-20	3.91	2.488	0.0010	/	Pass			
		-10	3.91	-1.561	-0.0006	/	Pass			
	0	3.91	-0.805	-0.0003	/	Pass				
		10	3.91	-3.336	-0.0013	/	Pass			
		30	3.91	0.959	0.0004	/	Pass			
	40	3.91	0.255	0.0001	/	Pass				
		50	3.91	-3.812	-0.0015	/	Pass			
		20	3.91	-1.754	-0.0007	/	Pass			
	3.5		-2.179	-0.0008	/	Pass				
	4.5		-2.460	-0.0009	/	Pass				
	-30	3.91	-7.606	-0.0029	/	Pass				
		-20	3.91	-4.430	-0.0017	/	Pass			
		-10	3.91	-4.956	-0.0019	/	Pass			
	0	3.91	0.111	0.0000	/	Pass				
		10	3.91	-5.057	-0.0019	/	Pass			
30		3.91	-6.003	-0.0023	/	Pass				
40	3.91	-4.004	-0.0015	/	Pass					
	50	3.91	-1.887	-0.0007	/	Pass				
	20	3.91	-0.297	-0.0001	/	Pass				
3.5		-1.198	-0.0005	/	Pass					
4.5		-0.130	-0.0001	/	Pass					
-30	3.91	1.422	0.0006	/	Pass					
	-20	3.91	3.085	0.0012	/	Pass				
	-10	3.91	2.635	0.0010	/	Pass				
0	3.91	1.946	0.0008	/	Pass					
	10	3.91	3.708	0.0014	/	Pass				
	16QAM	2577.5	75	0	20	3.91	-0.297	-0.0001	/	Pass
3.5						-1.198	-0.0005	/	Pass	
4.5						-0.130	-0.0001	/	Pass	
-30	3.91	1.422	0.0006	/	Pass					
	-20	3.91	3.085	0.0012	/	Pass				
	-10	3.91	2.635	0.0010	/	Pass				
0	3.91	1.946	0.0008	/	Pass					
	10	3.91	3.708	0.0014	/	Pass				



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64QAM	2595	75	0	30	3.91	1.977	0.0008	/	Pass		
				40	3.91	1.089	0.0004	/	Pass		
				50	3.91	-0.735	-0.0003	/	Pass		
				20	3.91	-1.769	-0.0007	/	Pass		
					3.5	-1.056	-0.0004	/	Pass		
					4.5	-0.746	-0.0003	/	Pass		
				-30	3.91	1.279	0.0005	/	Pass		
				-20	3.91	1.374	0.0005	/	Pass		
				-10	3.91	-4.938	-0.0019	/	Pass		
				0	3.91	1.108	0.0004	/	Pass		
	10	3.91	-2.231	-0.0009	/	Pass					
	30	3.91	0.107	0.0000	/	Pass					
	40	3.91	-2.994	-0.0012	/	Pass					
	50	3.91	2.295	0.0009	/	Pass					
	2612.5	75	0	20	3.91	0.695	0.0003	/	Pass		
					3.5	-2.672	-0.0010	/	Pass		
					4.5	-0.323	-0.0001	/	Pass		
				-30	3.91	-3.100	-0.0012	/	Pass		
				-20	3.91	-5.149	-0.0020	/	Pass		
				-10	3.91	-1.694	-0.0006	/	Pass		
0				3.91	0.893	0.0003	/	Pass			
10				3.91	-3.131	-0.0012	/	Pass			
30				3.91	-1.703	-0.0007	/	Pass			
40				3.91	-1.858	-0.0007	/	Pass			
50	3.91	-2.736	-0.0010	/	Pass						
2577.5	75	0	20	3.91	0.399	0.0002	/	Pass			
				3.5	-1.474	-0.0006	/	Pass			
				4.5	-1.092	-0.0004	/	Pass			
			-30	3.91	-0.835	-0.0003	/	Pass			
			-20	3.91	-0.111	0.0000	/	Pass			
			-10	3.91	-0.971	-0.0004	/	Pass			
			0	3.91	-3.151	-0.0012	/	Pass			
			10	3.91	-0.572	-0.0002	/	Pass			
			30	3.91	1.331	0.0005	/	Pass			
			40	3.91	-0.854	-0.0003	/	Pass			
			50	3.91	-3.050	-0.0012	/	Pass			
			2595	75	0	20	3.91	-1.892	-0.0007	/	Pass
							3.5	1.197	0.0005	/	Pass
							4.5	-2.629	-0.0010	/	Pass
-30	3.91	-0.433				-0.0002	/	Pass			
-20	3.91	-3.359				-0.0013	/	Pass			
-10	3.91	2.331				0.0009	/	Pass			
0	3.91	-4.922				-0.0019	/	Pass			
10	3.91	0.568				0.0002	/	Pass			
30	3.91	-1.843				-0.0007	/	Pass			
40	3.91	-1.462				-0.0006	/	Pass			
50	3.91	-0.551	-0.0002	/	Pass						
2612.5	75	0	20	3.91	-2.380	-0.0009	/	Pass			
				3.5	-3.269	-0.0013	/	Pass			



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				4.5	-1.253	-0.0005	/	Pass
				-30	3.91	1.780	0.0007	Pass
				-20	3.91	-2.754	-0.0011	Pass
				-10	3.91	1.102	0.0004	Pass
				0	3.91	-2.063	-0.0008	Pass
				10	3.91	1.916	0.0007	Pass
				30	3.91	-4.511	-0.0017	Pass
				40	3.91	-0.897	-0.0003	Pass
				50	3.91	-1.475	-0.0006	Pass



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2.4 B38_20MHz

2.4.1 Test Result

Band: 38 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2580	100	0	20	3.91	-2.685	-0.0010	/	Pass	
					3.5	-4.335	-0.0017	/	Pass	
					4.5	-0.118	0.0000	/	Pass	
				-30	3.91	-6.524	-0.0025	/	Pass	
					-20	3.91	-1.818	-0.0007	/	Pass
					-10	3.91	-0.026	0.0000	/	Pass
				0	3.91	-5.107	-0.0020	/	Pass	
					10	3.91	0.293	0.0001	/	Pass
					30	3.91	2.734	0.0011	/	Pass
	50	3.91	-2.614	-0.0010	/	Pass				
		3.91	-1.863	-0.0007	/	Pass				
		20	3.91	0.498	0.0002	/	Pass			
	3.5		-0.496	-0.0002	/	Pass				
	4.5		-0.398	-0.0002	/	Pass				
	2595	100	0	-30	3.91	-2.063	-0.0008	/	Pass	
					-20	3.91	-0.318	-0.0001	/	Pass
					-10	3.91	1.581	0.0006	/	Pass
				0	3.91	-0.217	-0.0001	/	Pass	
					10	3.91	-3.282	-0.0013	/	Pass
					30	3.91	-3.180	-0.0012	/	Pass
				40	3.91	2.149	0.0008	/	Pass	
					3.91	-1.298	-0.0005	/	Pass	
					20	3.91	0.865	0.0003	/	Pass
	3.5	-2.832	-0.0011	/		Pass				
	4.5	-2.571	-0.0010	/		Pass				
	2610	100	0	-30	3.91	-1.864	-0.0007	/	Pass	
					-20	3.91	-1.842	-0.0007	/	Pass
-10					3.91	-4.206	-0.0016	/	Pass	
0				3.91	-2.908	-0.0011	/	Pass		
				10	3.91	2.379	0.0009	/	Pass	
				30	3.91	-5.258	-0.0020	/	Pass	
40				3.91	-1.117	-0.0004	/	Pass		
				3.91	-8.663	-0.0033	/	Pass		
				20	3.91	-1.259	-0.0005	/	Pass	
3.5	-3.330	-0.0013	/		Pass					
4.5	-1.054	-0.0004	/		Pass					
16QAM	2580	100	0	-30	3.91	-0.511	-0.0002	/	Pass	
					-20	3.91	-2.845	-0.0011	/	Pass
					-10	3.91	-3.523	-0.0014	/	Pass
				0	3.91	-6.889	-0.0027	/	Pass	
					10	3.91	-1.632	-0.0006	/	Pass



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64QAM	2595	100	0	30	3.91	-2.412	-0.0009	/	Pass		
				40	3.91	-1.229	-0.0005	/	Pass		
				50	3.91	1.025	0.0004	/	Pass		
				20	3.91	0.616	0.0002	/	Pass		
					3.5	-4.083	-0.0016	/	Pass		
					4.5	0.180	0.0001	/	Pass		
				-30	3.91	1.394	0.0005	/	Pass		
				-20	3.91	-0.403	-0.0002	/	Pass		
				-10	3.91	1.298	0.0005	/	Pass		
				0	3.91	-4.159	-0.0016	/	Pass		
	10	3.91	-3.408	-0.0013	/	Pass					
	30	3.91	-1.541	-0.0006	/	Pass					
	40	3.91	-0.574	-0.0002	/	Pass					
	50	3.91	-2.158	-0.0008	/	Pass					
	2610	100	0	20	3.91	-1.091	-0.0004	/	Pass		
					3.5	-5.461	-0.0021	/	Pass		
					4.5	-3.635	-0.0014	/	Pass		
				-30	3.91	-0.521	-0.0002	/	Pass		
				-20	3.91	1.380	0.0005	/	Pass		
				-10	3.91	-2.180	-0.0008	/	Pass		
0				3.91	-2.942	-0.0011	/	Pass			
10				3.91	1.922	0.0007	/	Pass			
30				3.91	-0.997	-0.0004	/	Pass			
40				3.91	2.789	0.0011	/	Pass			
50	3.91	-3.580	-0.0014	/	Pass						
2580	100	0	20	3.91	-1.701	-0.0007	/	Pass			
				3.5	-3.323	-0.0013	/	Pass			
				4.5	-0.096	0.0000	/	Pass			
			-30	3.91	-2.336	-0.0009	/	Pass			
			-20	3.91	-5.041	-0.0020	/	Pass			
			-10	3.91	-0.210	-0.0001	/	Pass			
			0	3.91	-2.266	-0.0009	/	Pass			
			10	3.91	-2.293	-0.0009	/	Pass			
			30	3.91	-0.426	-0.0002	/	Pass			
			40	3.91	-1.841	-0.0007	/	Pass			
			50	3.91	-1.225	-0.0005	/	Pass			
			2595	100	0	20	3.91	1.446	0.0006	/	Pass
							3.5	0.538	0.0002	/	Pass
							4.5	-3.341	-0.0013	/	Pass
						-30	3.91	-2.836	-0.0011	/	Pass
						-20	3.91	1.540	0.0006	/	Pass
						-10	3.91	-0.381	-0.0001	/	Pass
						0	3.91	3.346	0.0013	/	Pass
10	3.91	-2.854				-0.0011	/	Pass			
30	3.91	-0.436				-0.0002	/	Pass			
40	3.91	0.908				0.0003	/	Pass			
50	3.91	-0.838	-0.0003	/	Pass						
2610	100	0	20	3.91	-0.019	0.0000	/	Pass			
				3.5	0.770	0.0003	/	Pass			



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				4.5	-1.892	-0.0007	/	Pass
				-30	3.91	0.075	0.0000	Pass
				-20	3.91	-0.127	0.0000	Pass
				-10	3.91	2.753	0.0011	Pass
				0	3.91	-1.787	-0.0007	Pass
				10	3.91	-5.468	-0.0021	Pass
				30	3.91	-0.288	-0.0001	Pass
				40	3.91	-3.176	-0.0012	Pass
				50	3.91	-1.187	-0.0005	Pass



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3. 99% & 26dB Bandwidth

3.1 Band38_OBW

3.1.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.567	/	Pass
		2595	25	0	4.548	/	Pass
		2617.5	25	0	4.546	/	Pass
	16QAM	2572.5	25	0	4.542	/	Pass
		2595	25	0	4.556	/	Pass
		2617.5	25	0	4.588	/	Pass
	64QAM	2572.5	25	0	4.559	/	Pass
		2595	25	0	4.568	/	Pass
		2617.5	25	0	4.560	/	Pass
10	QPSK	2575	50	0	9.083	/	Pass
		2595	50	0	9.097	/	Pass
		2615	50	0	9.102	/	Pass
	16QAM	2575	50	0	9.082	/	Pass
		2595	50	0	9.057	/	Pass
		2615	50	0	9.078	/	Pass
	64QAM	2575	50	0	9.060	/	Pass
		2595	50	0	9.047	/	Pass
		2615	50	0	9.083	/	Pass
15	QPSK	2577.5	75	0	13.652	/	Pass
		2595	75	0	13.637	/	Pass
		2612.5	75	0	13.597	/	Pass
	16QAM	2577.5	75	0	13.673	/	Pass
		2595	75	0	13.667	/	Pass
		2612.5	75	0	13.695	/	Pass
	64QAM	2577.5	75	0	13.598	/	Pass
		2595	75	0	13.612	/	Pass
		2612.5	75	0	13.598	/	Pass
20	QPSK	2580	100	0	18.142	/	Pass
		2595	100	0	18.117	/	Pass
		2610	100	0	18.159	/	Pass
	16QAM	2580	100	0	18.100	/	Pass
		2595	100	0	18.199	/	Pass
		2610	100	0	18.188	/	Pass
	64QAM	2580	100	0	18.135	/	Pass
		2595	100	0	18.143	/	Pass
		2610	100	0	18.184	/	Pass



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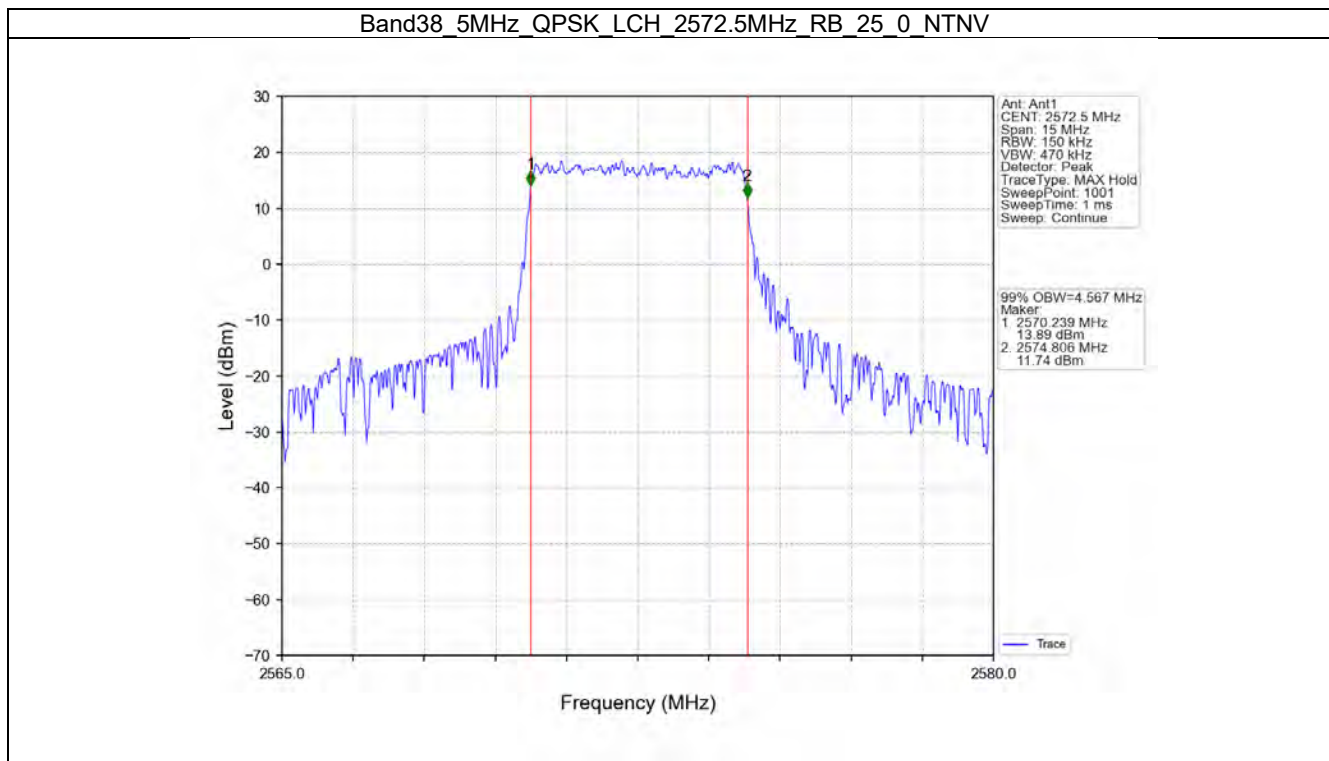
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3.1.2 Test Graph



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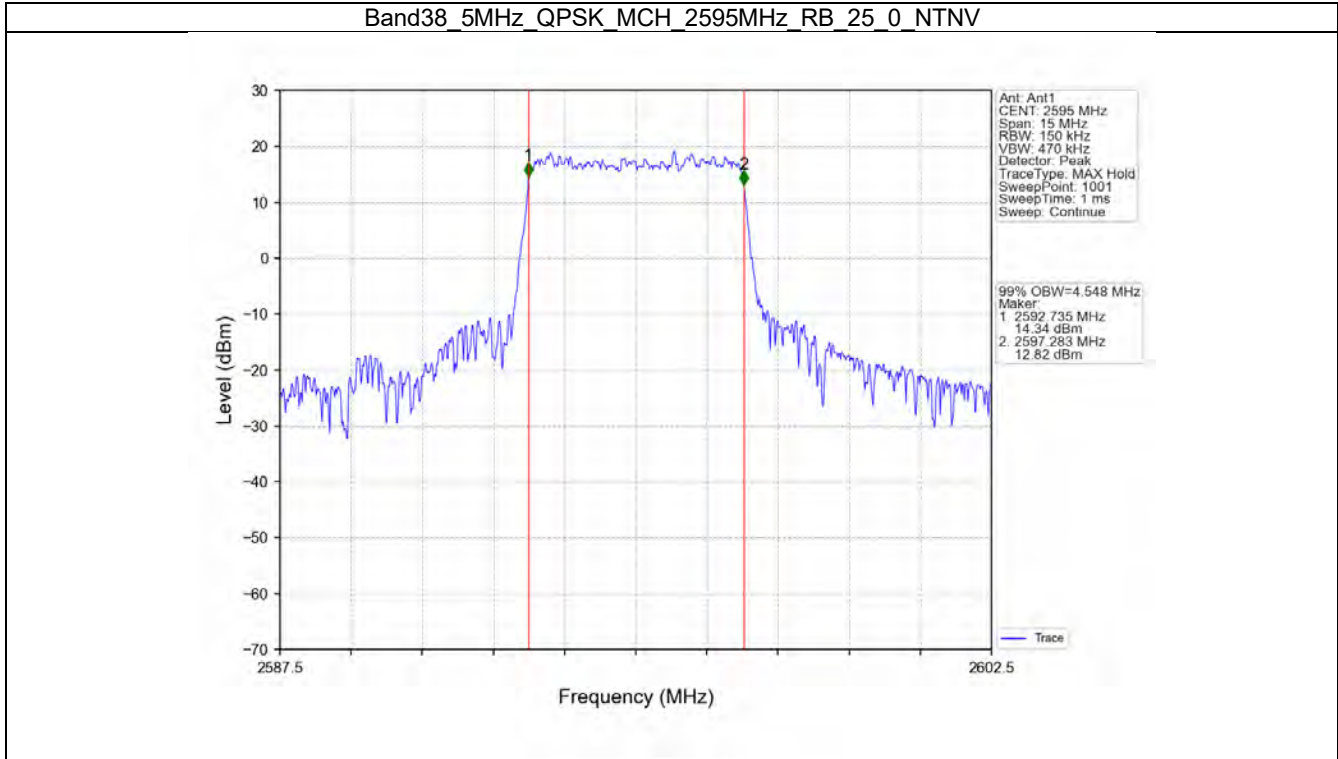
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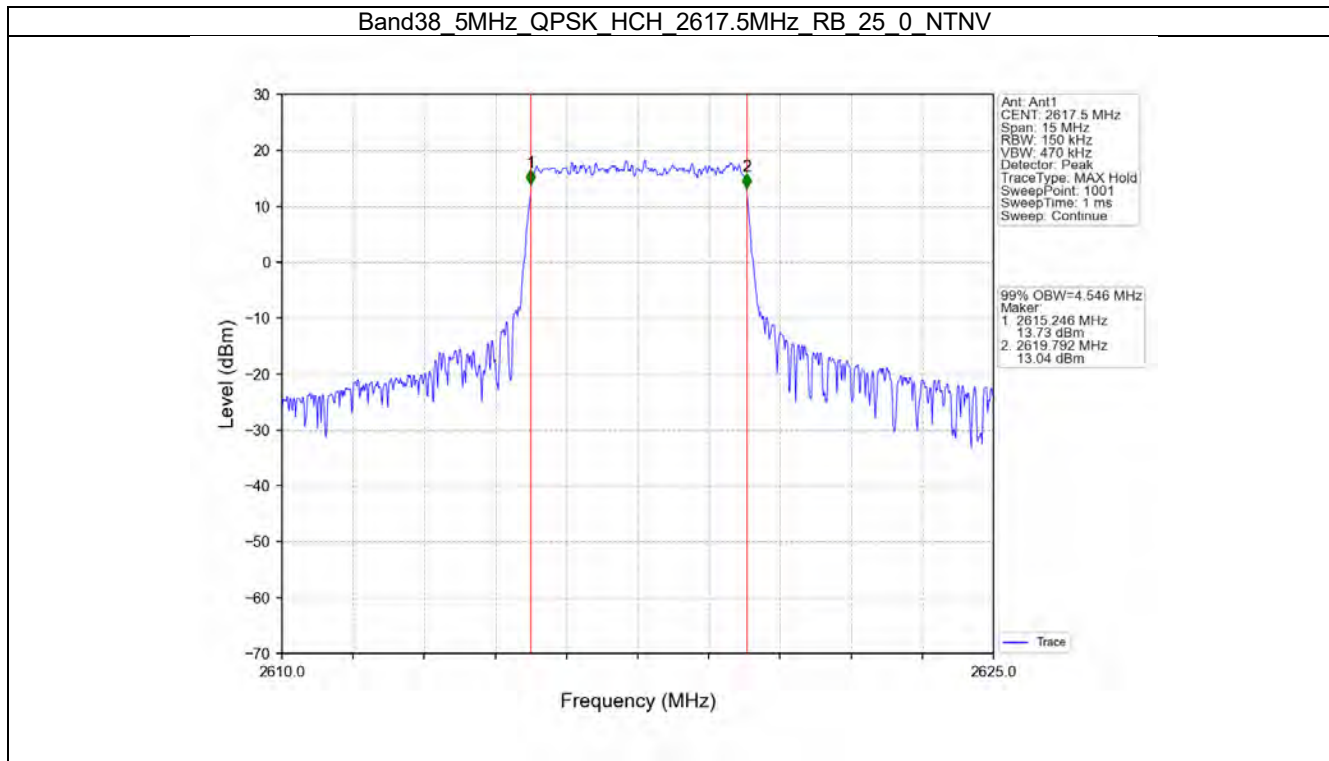


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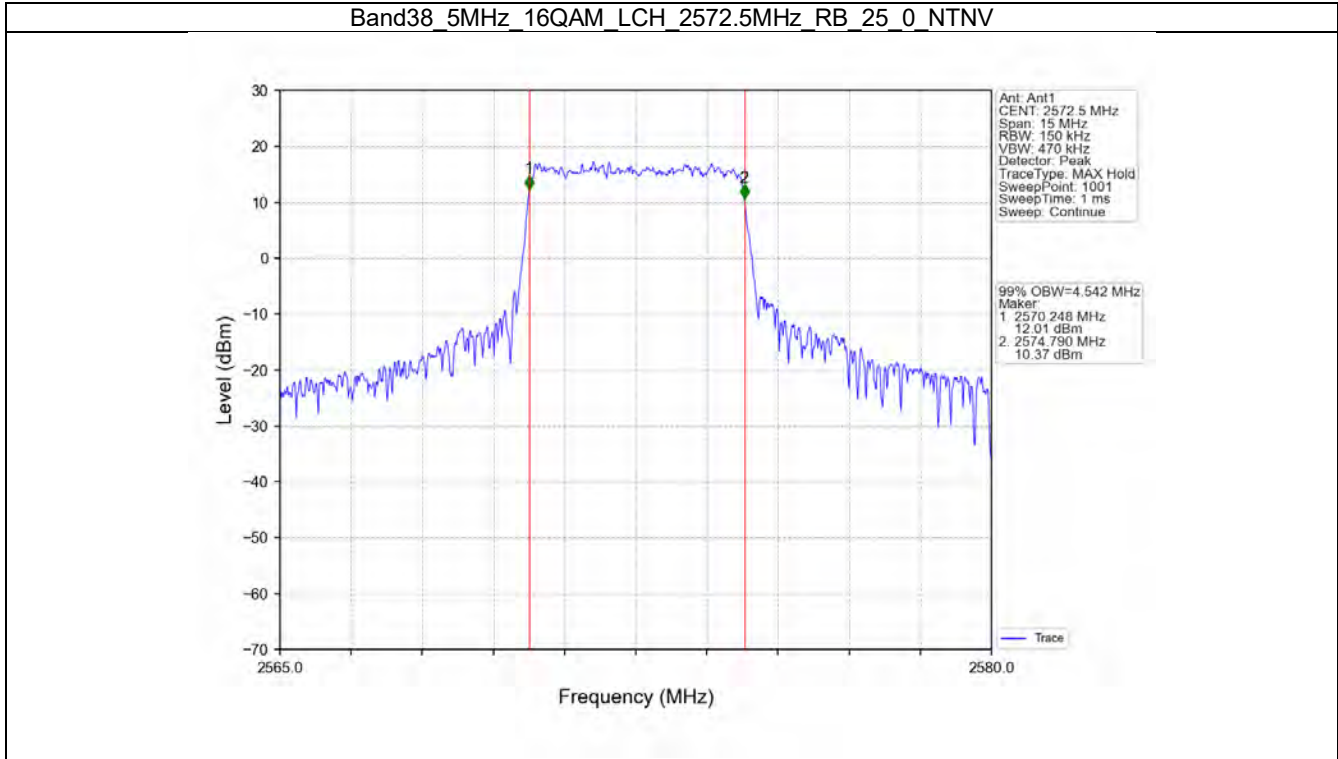
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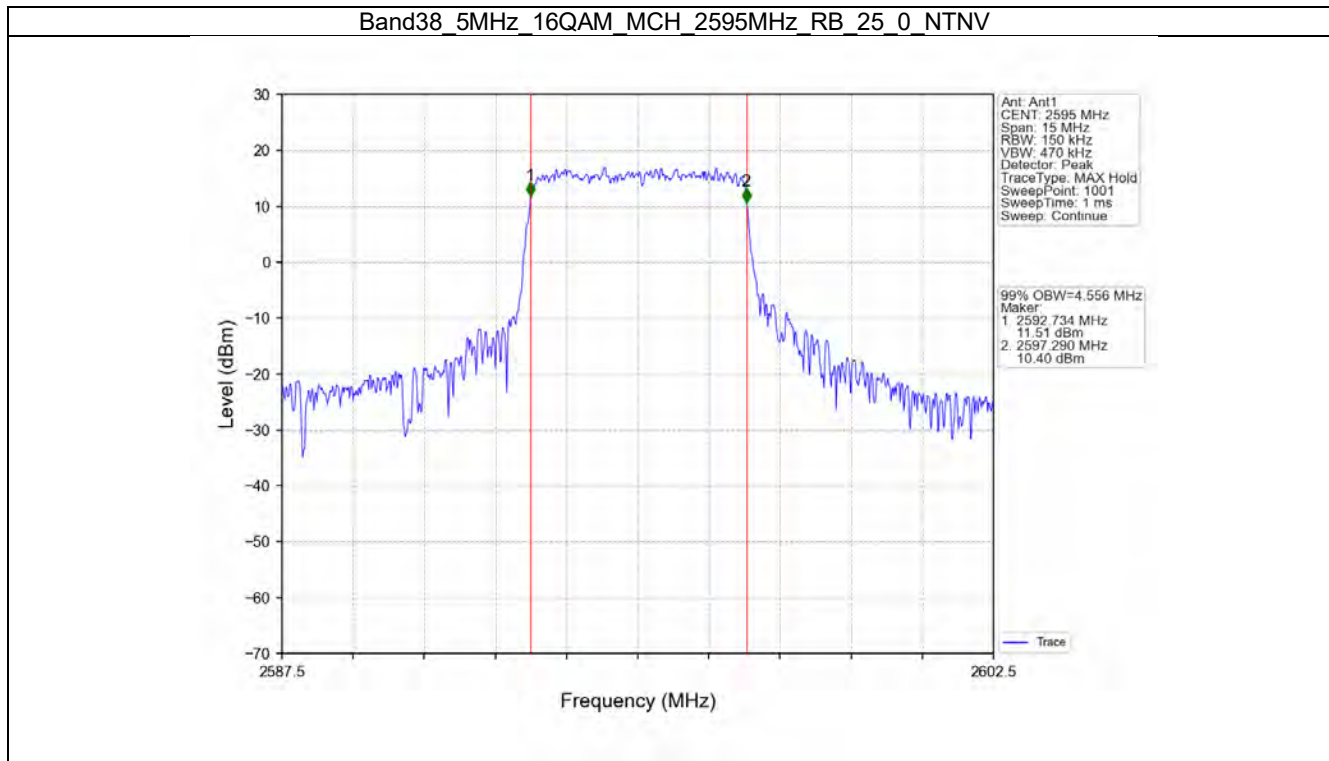


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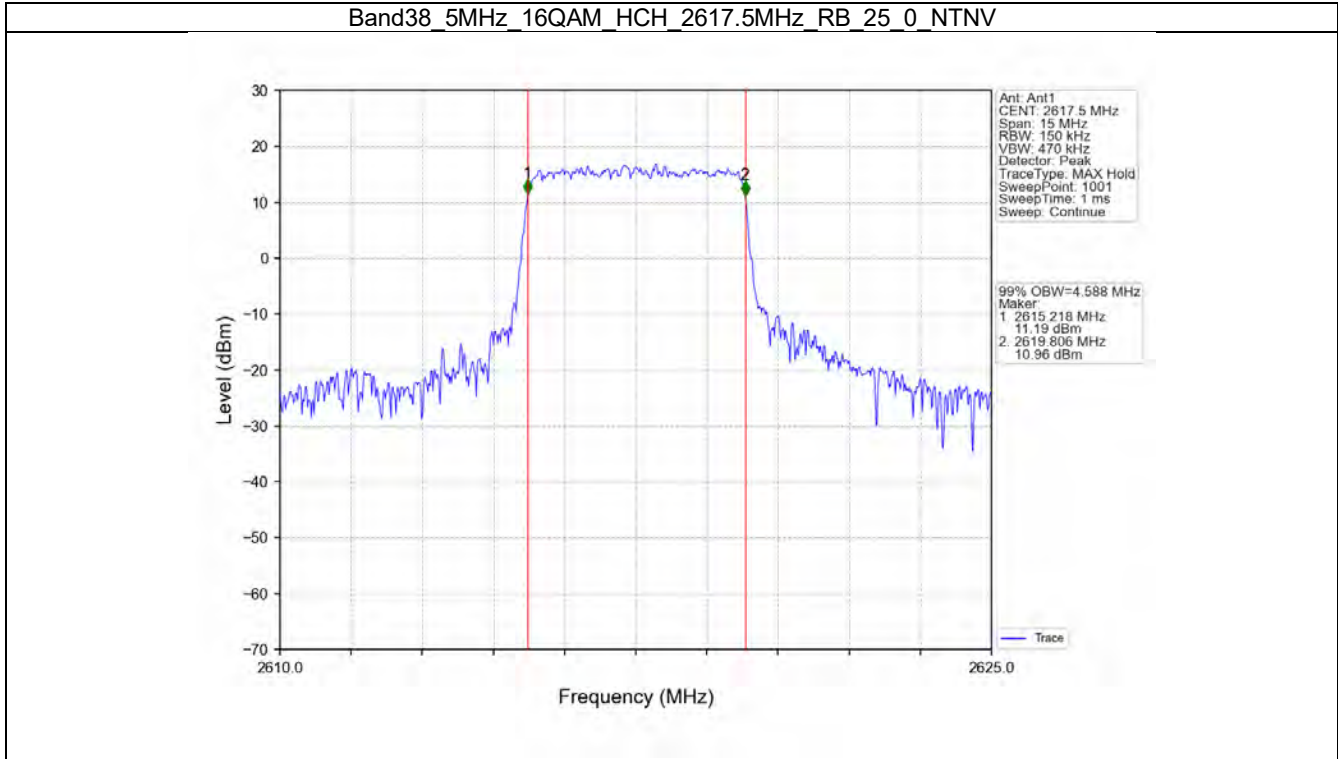
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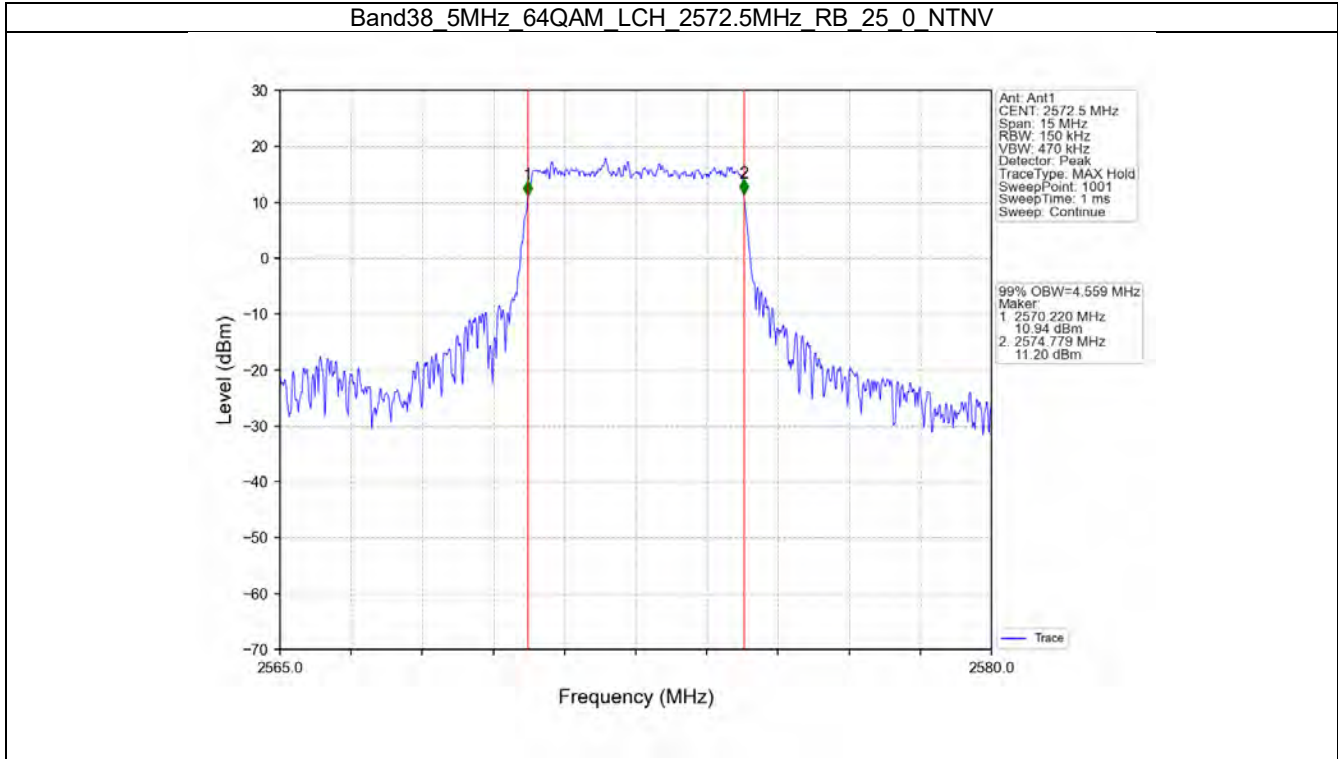
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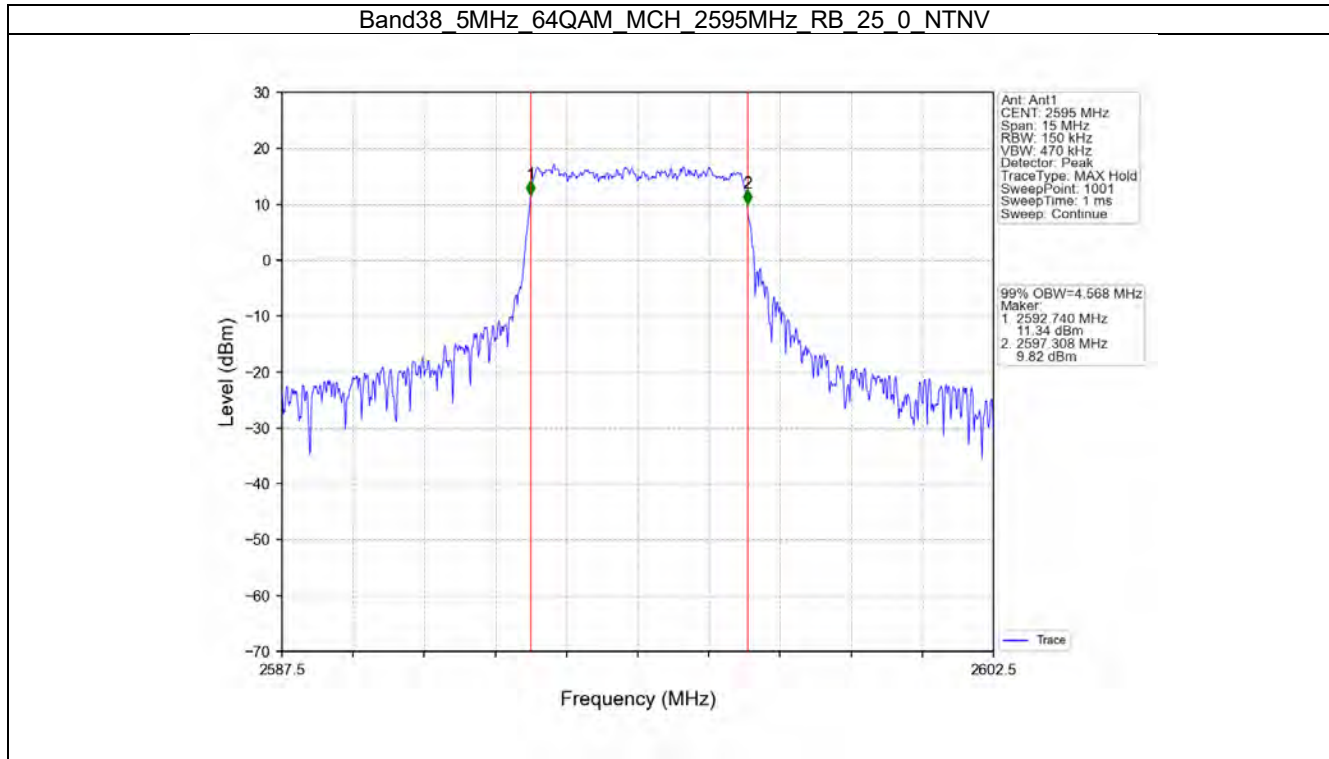


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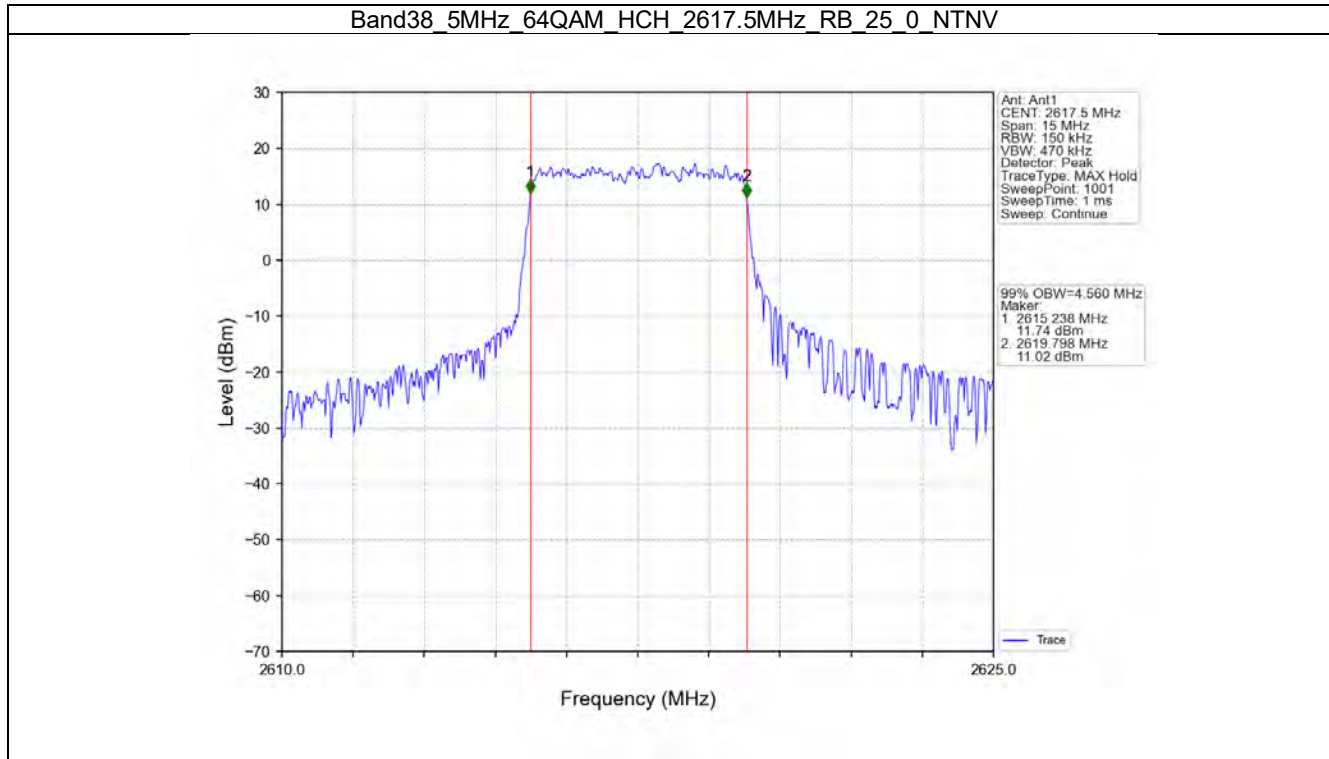


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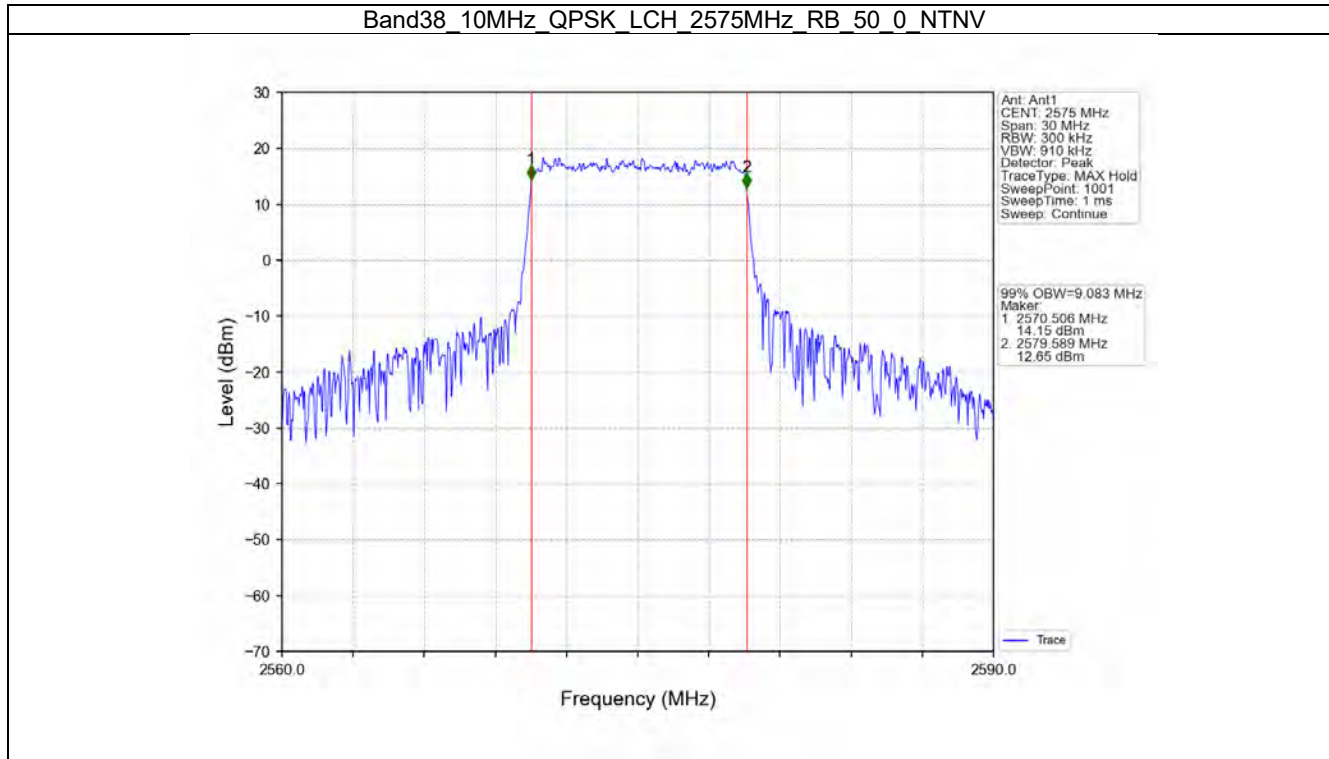


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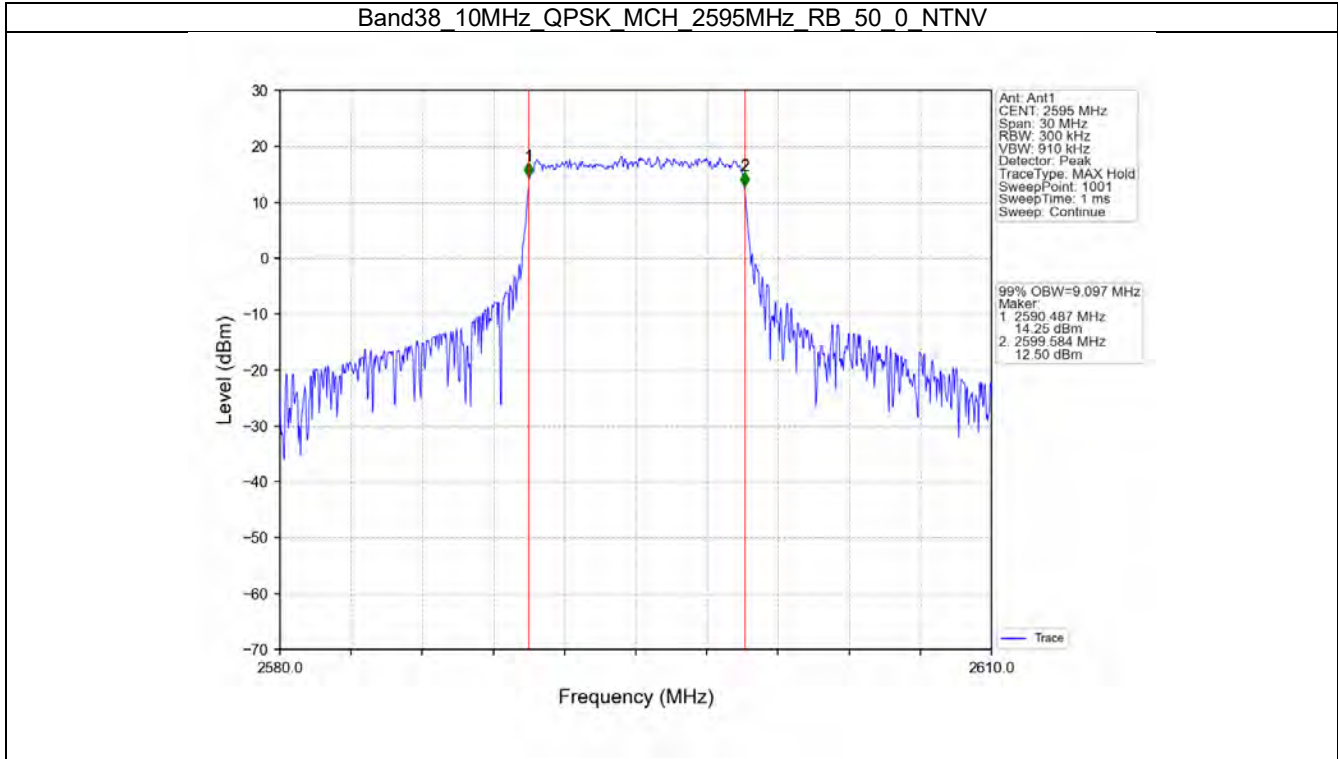
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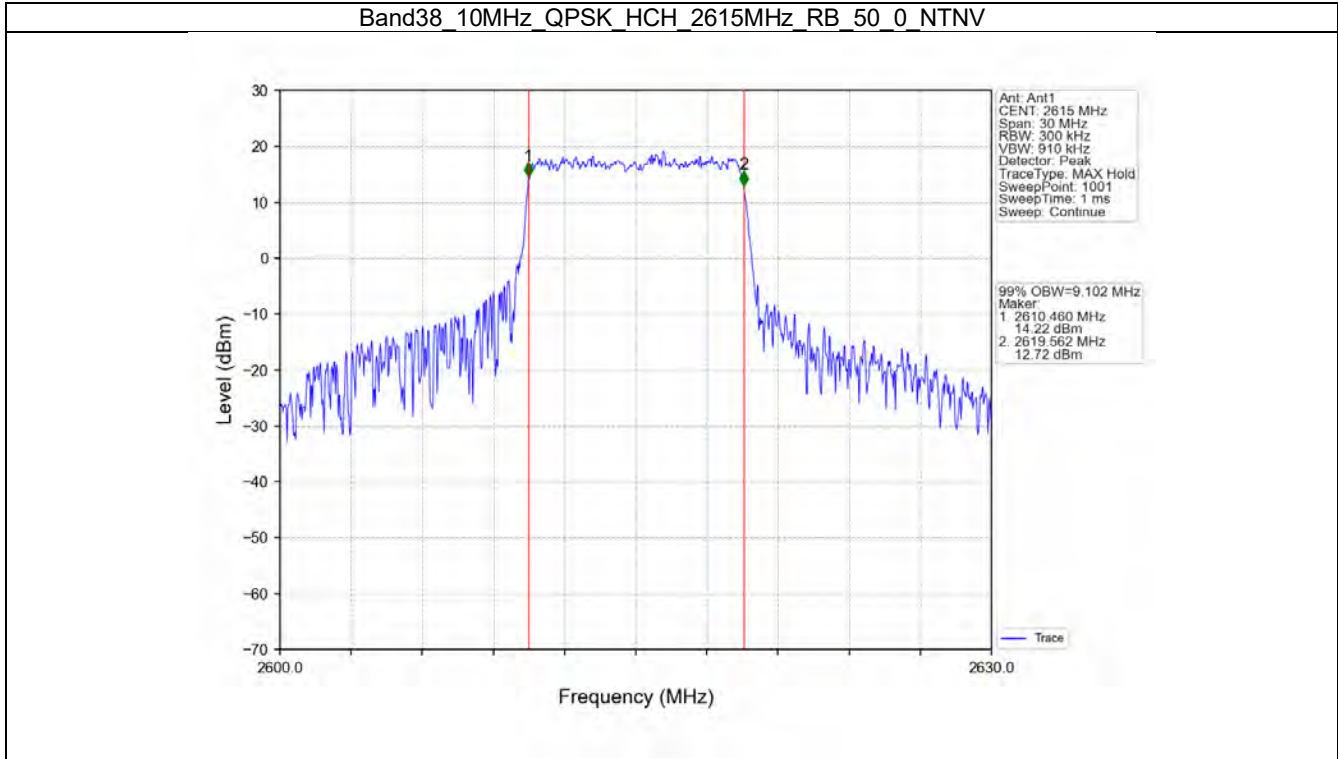
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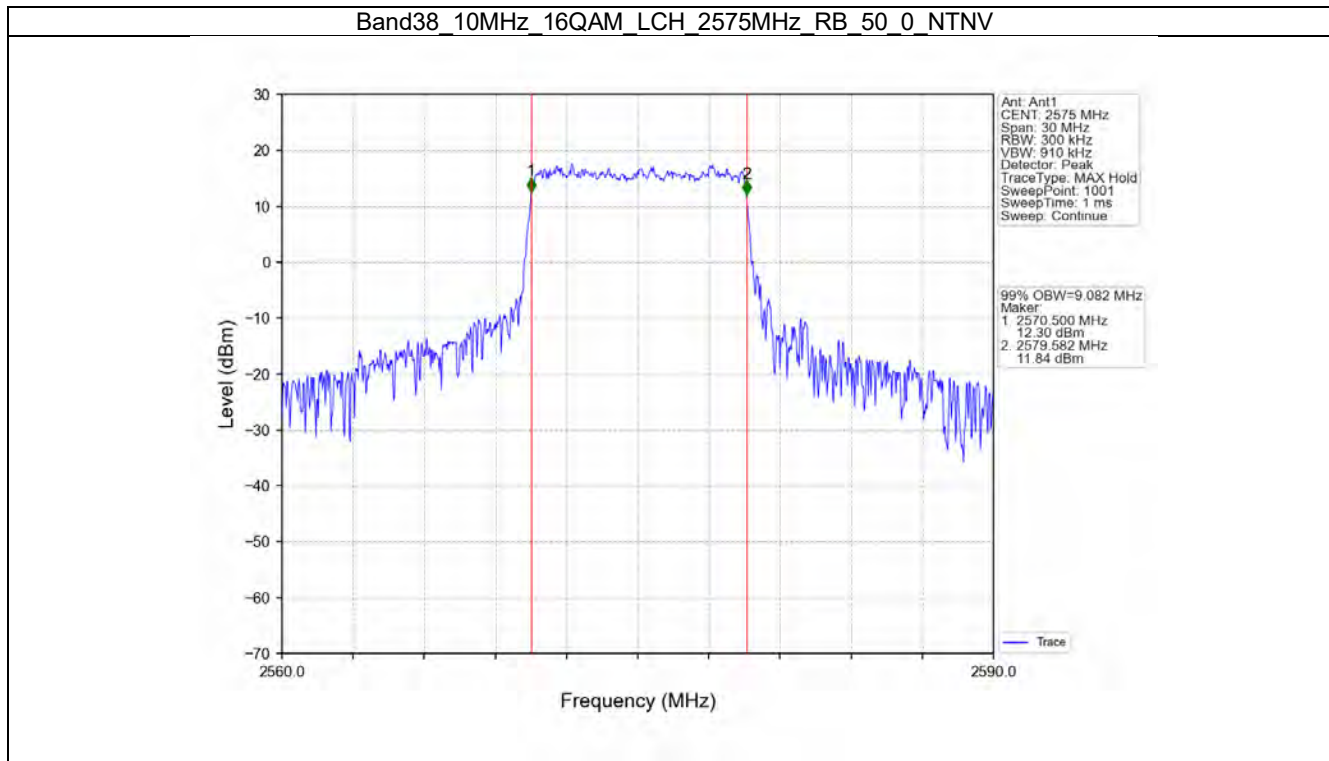


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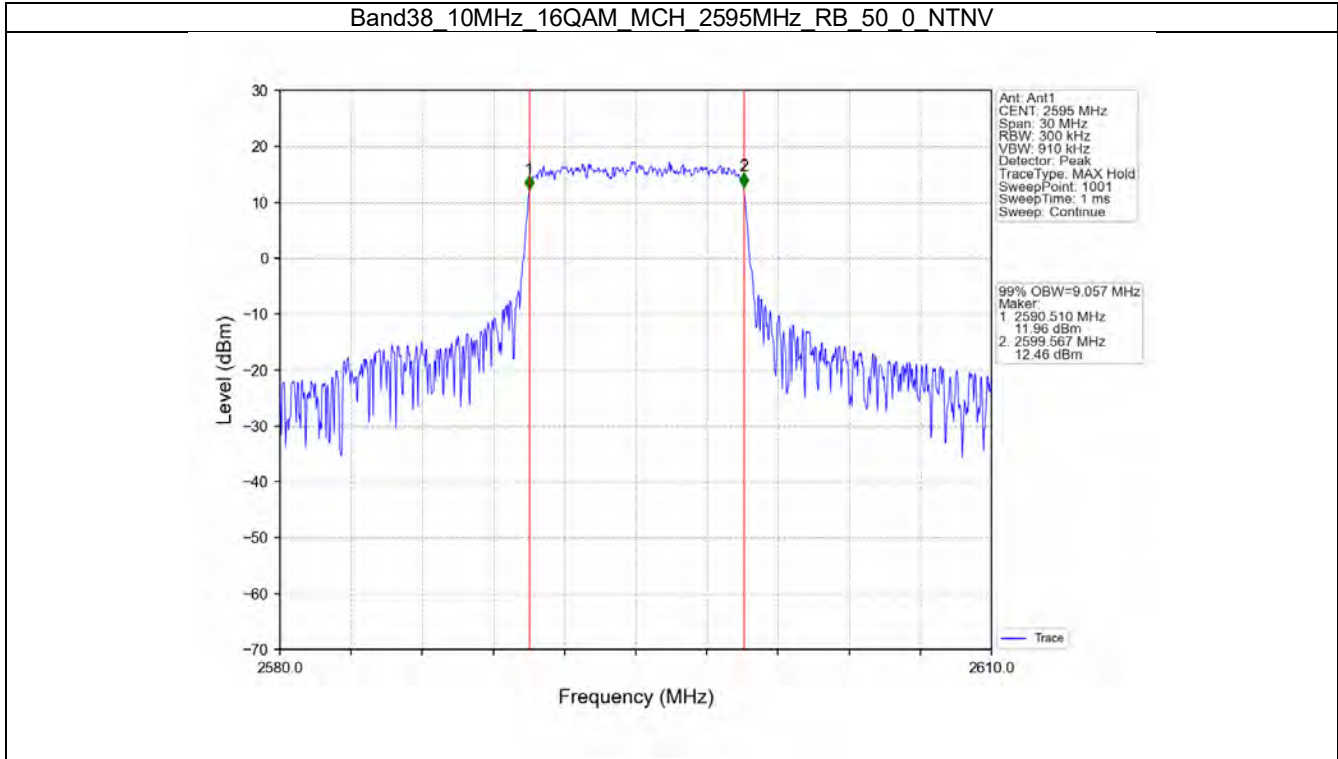
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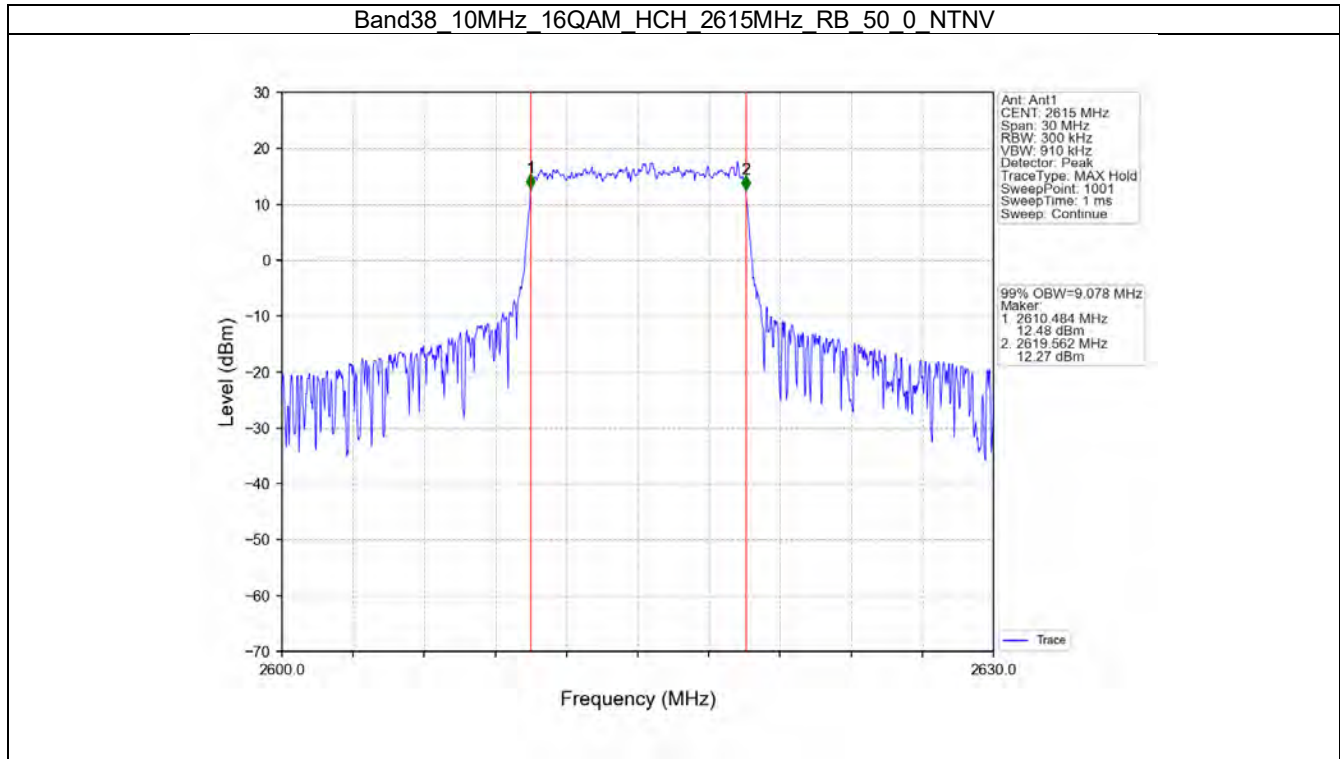
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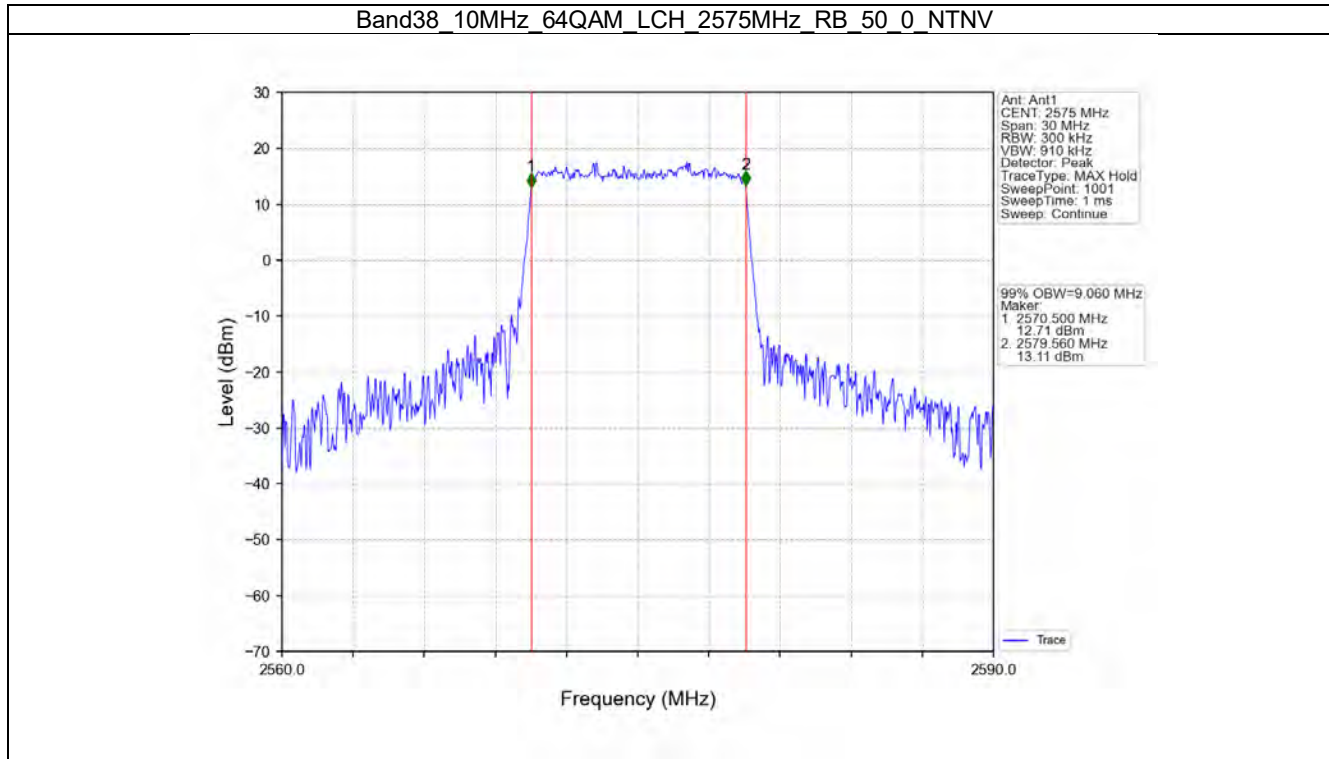


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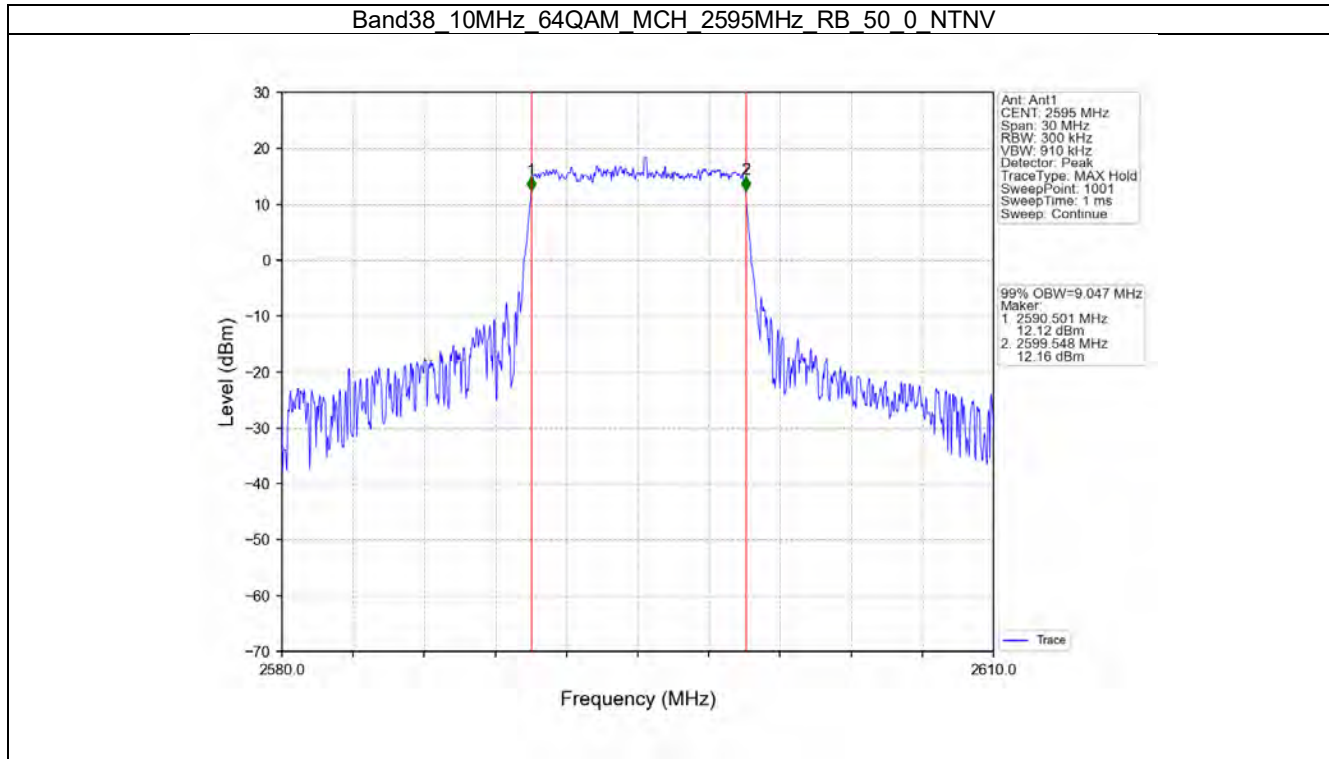


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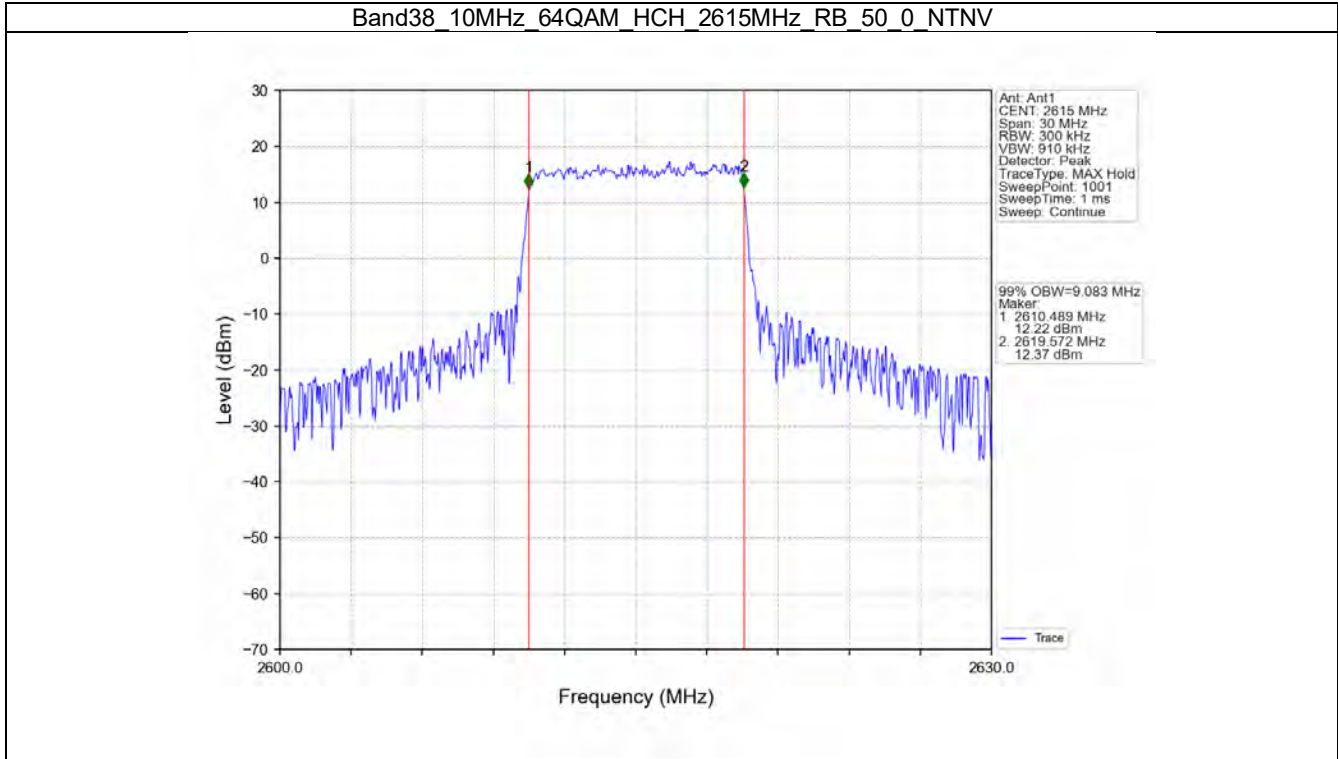
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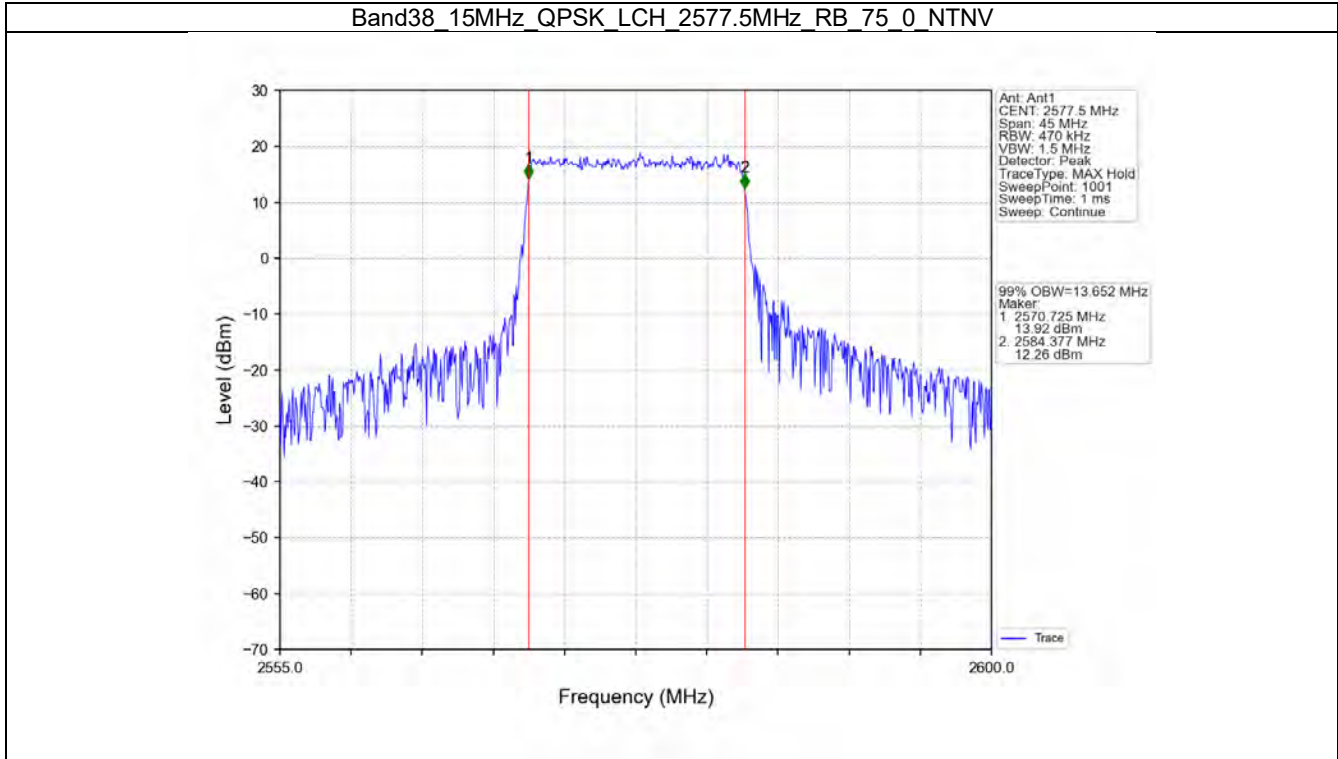
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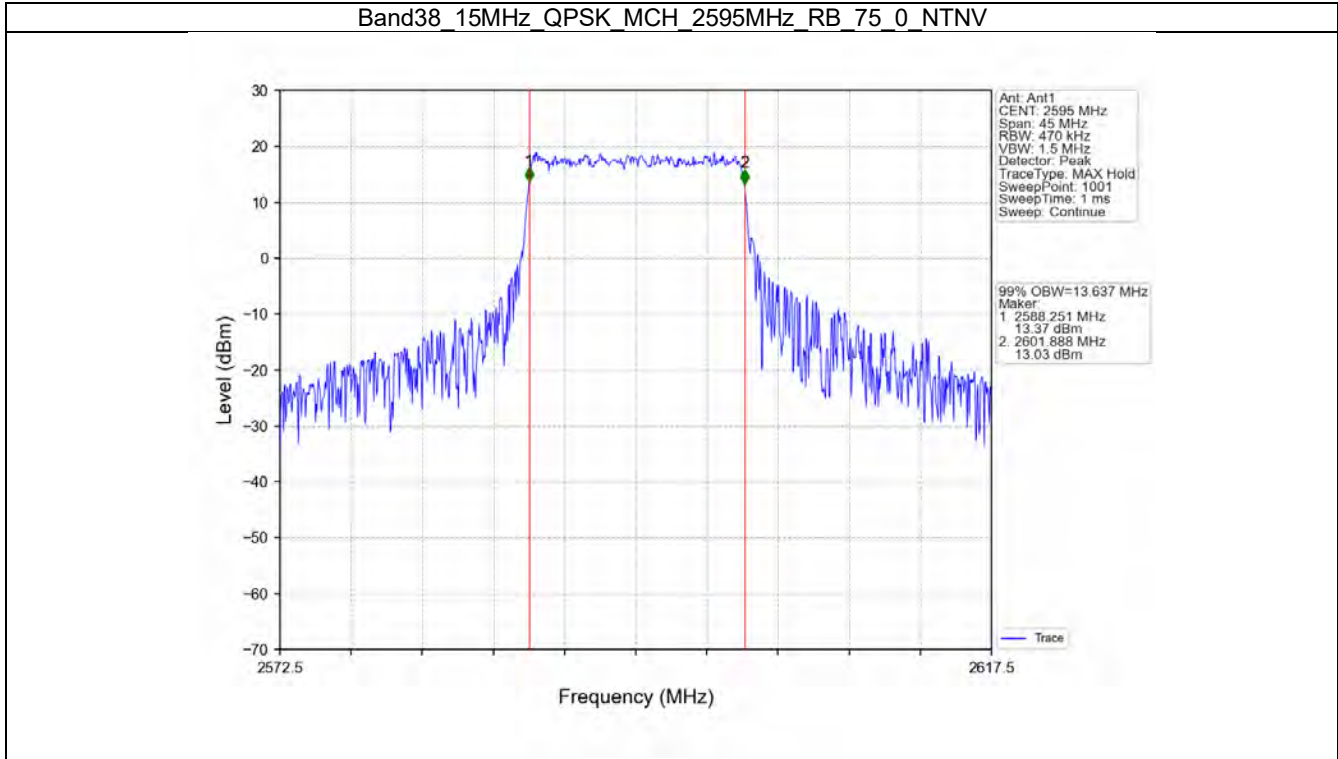
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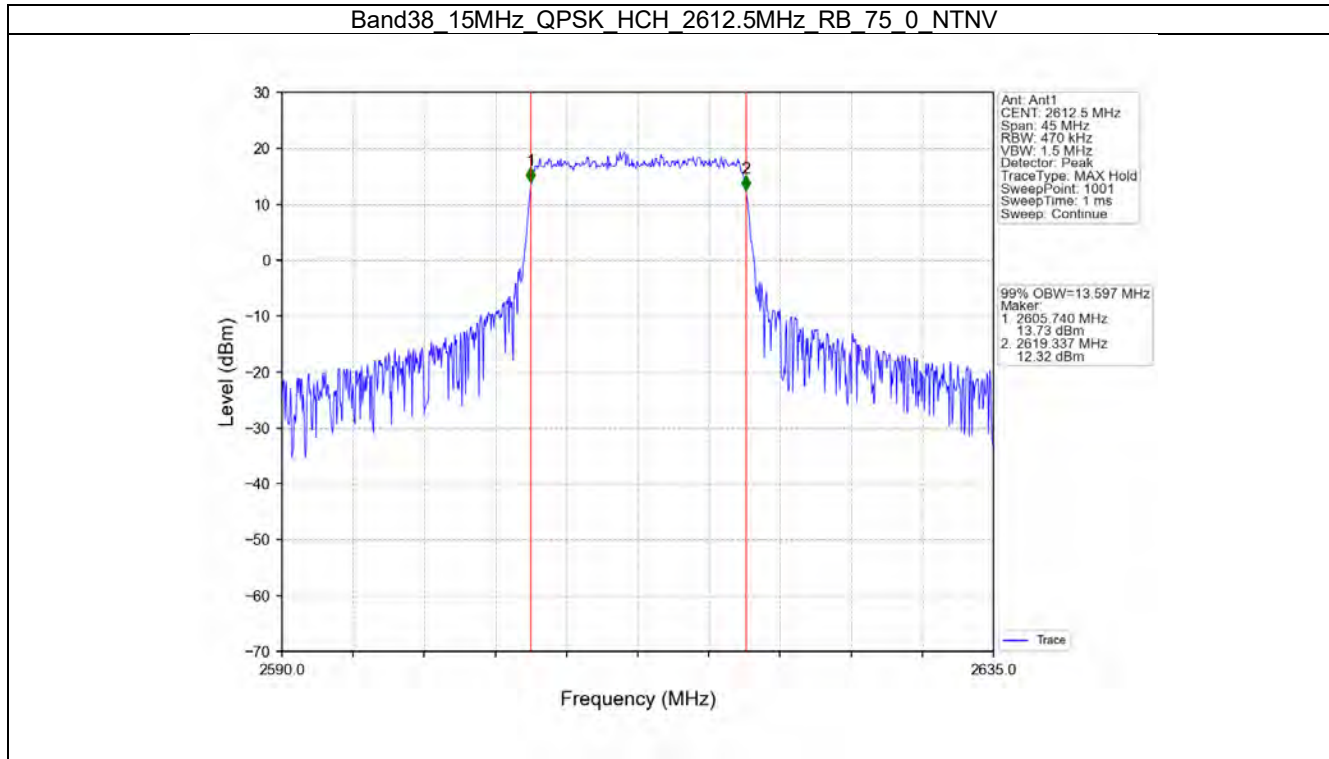


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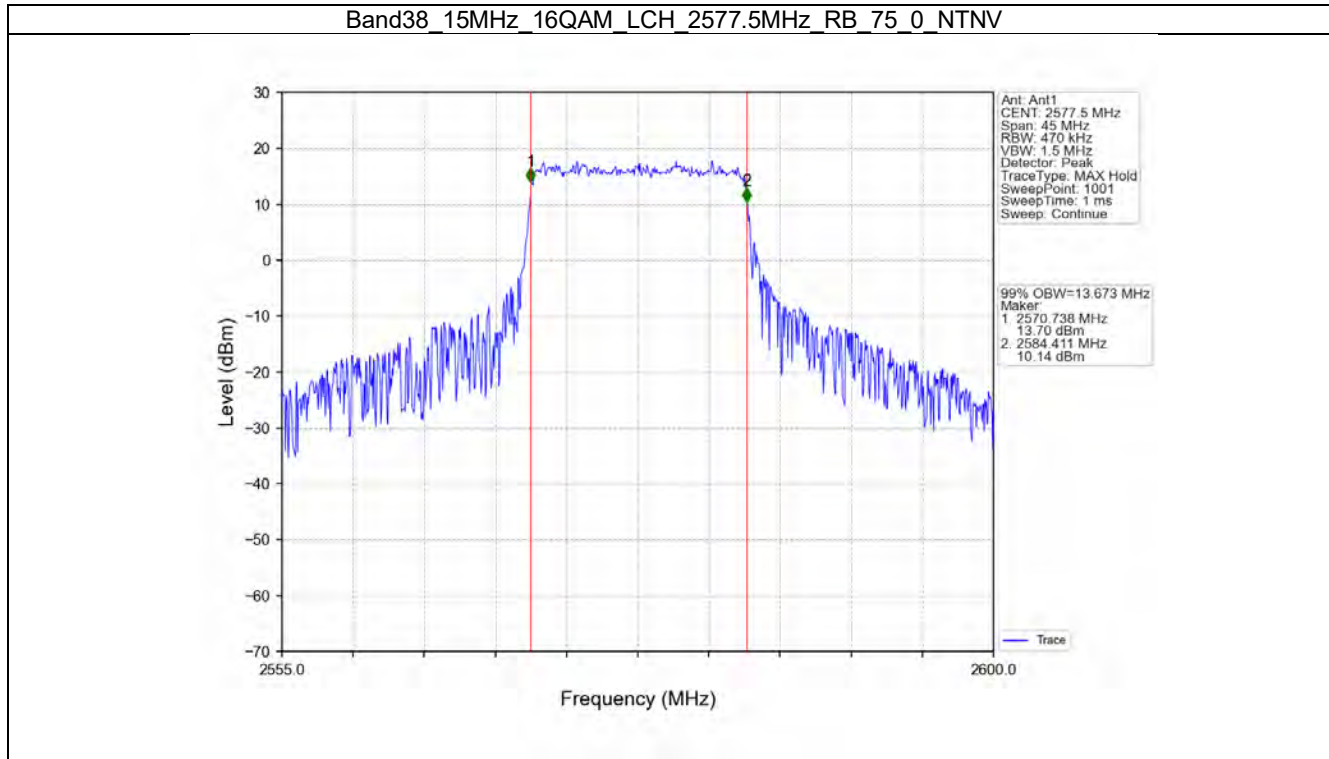


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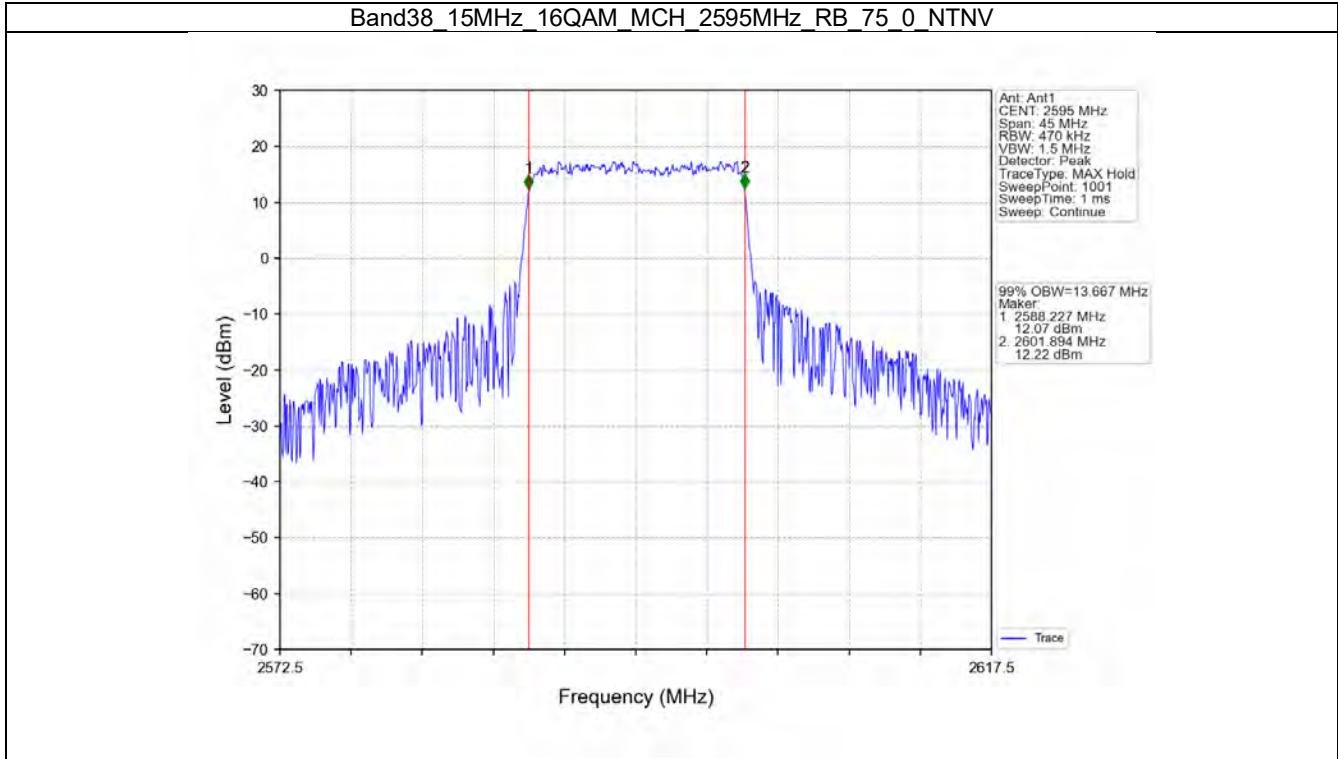
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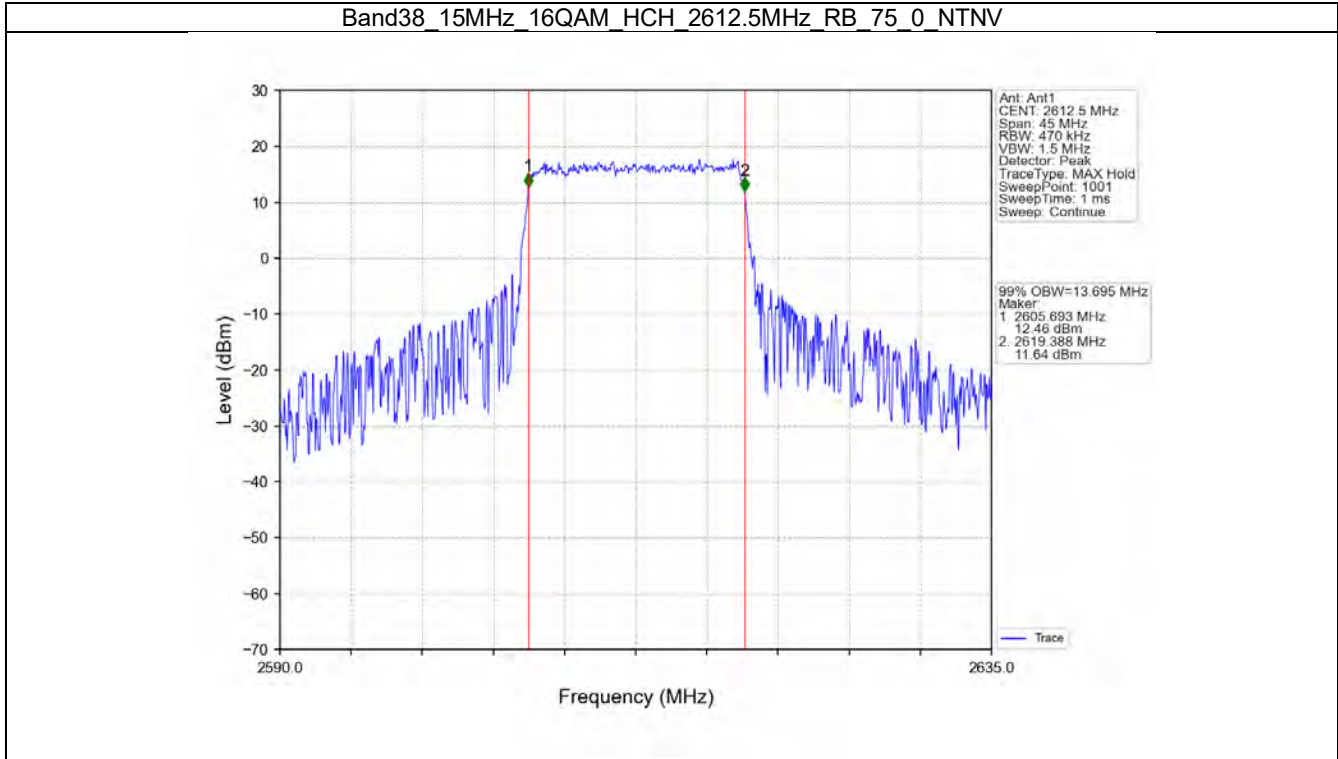
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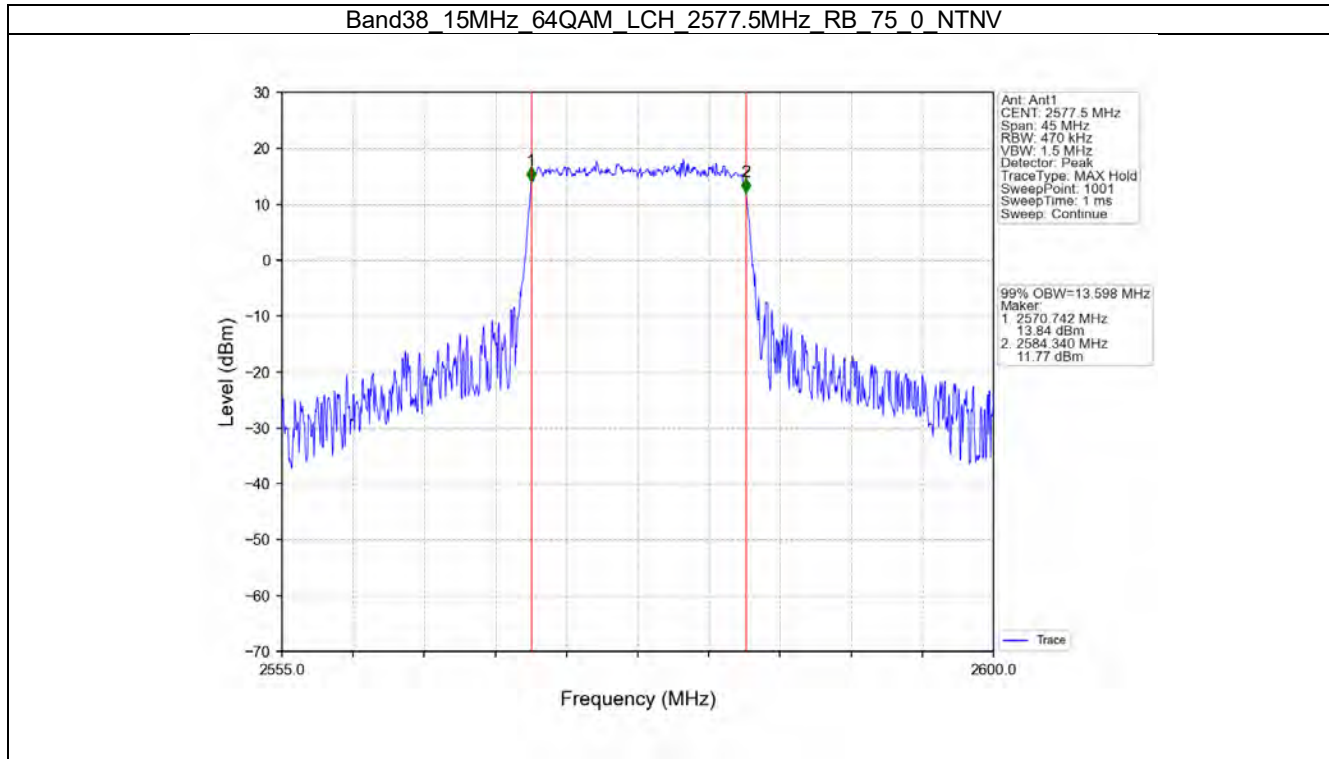


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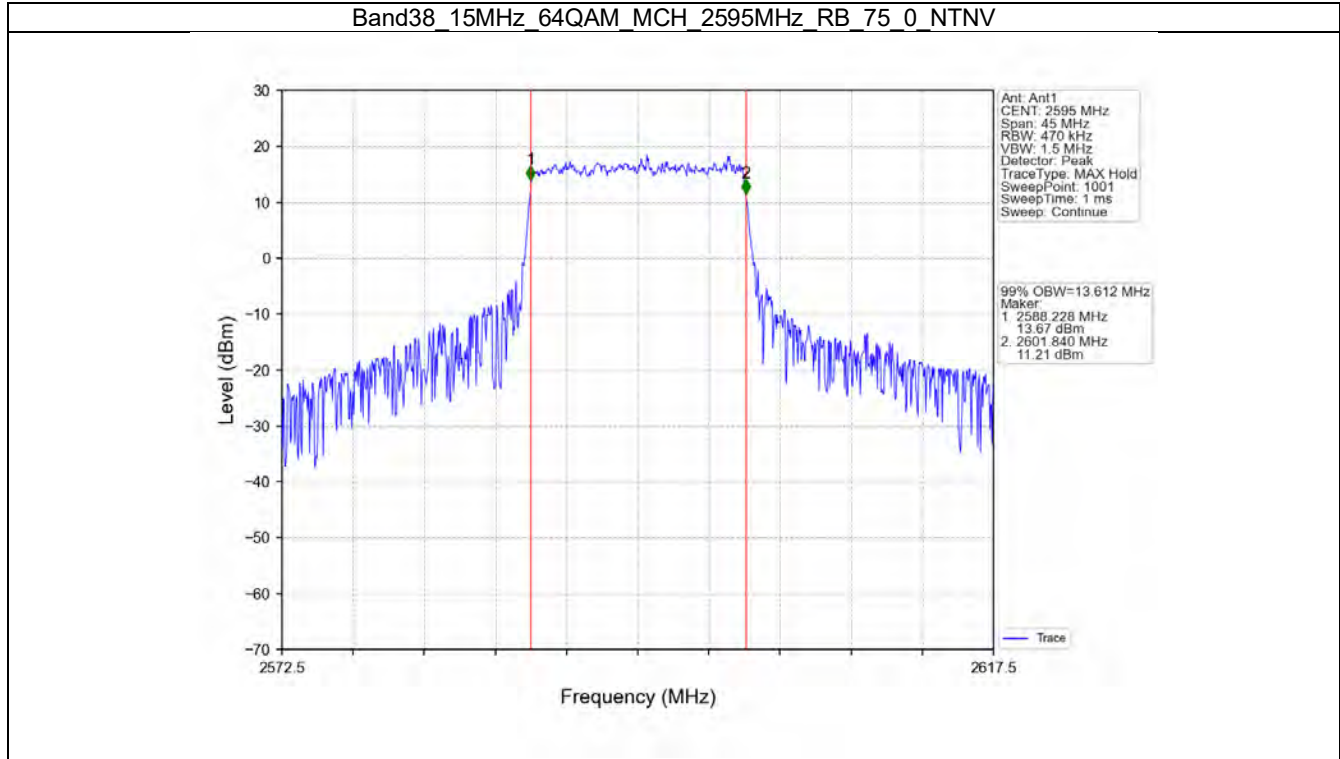
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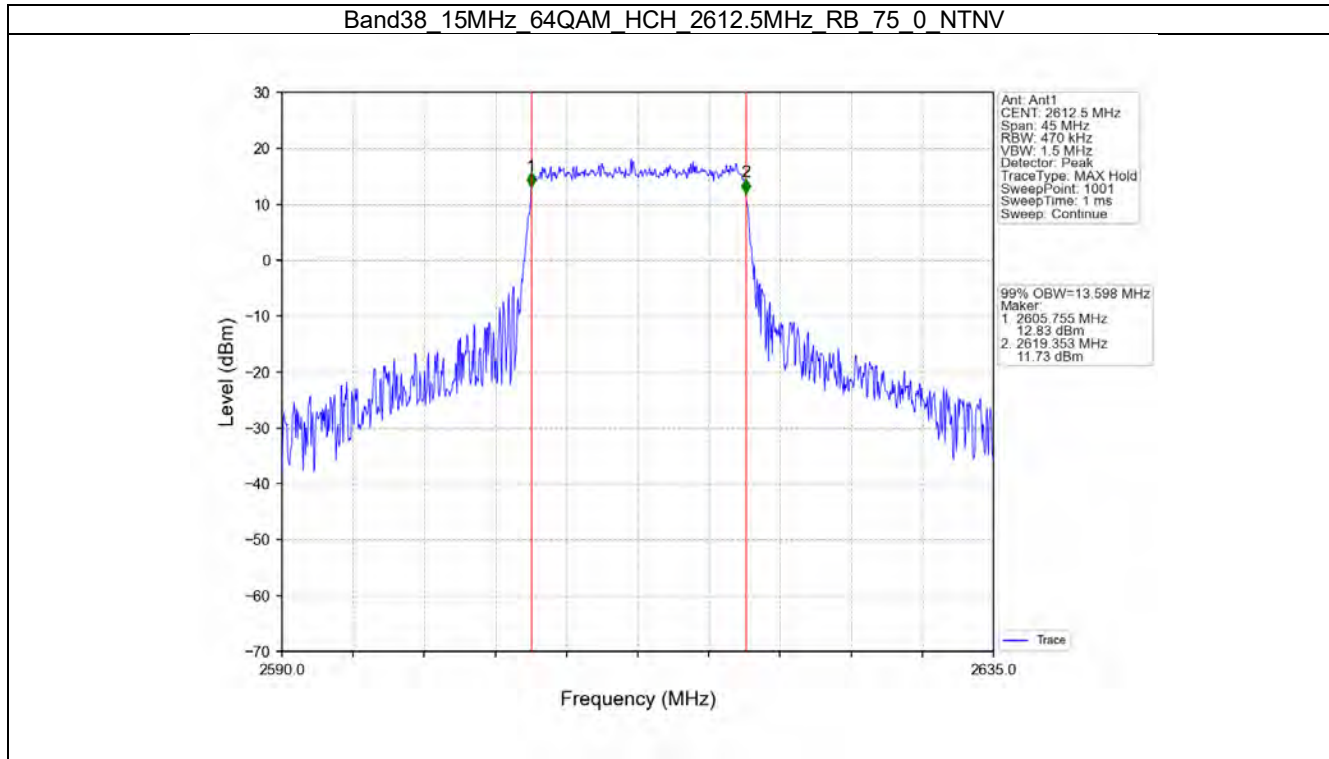


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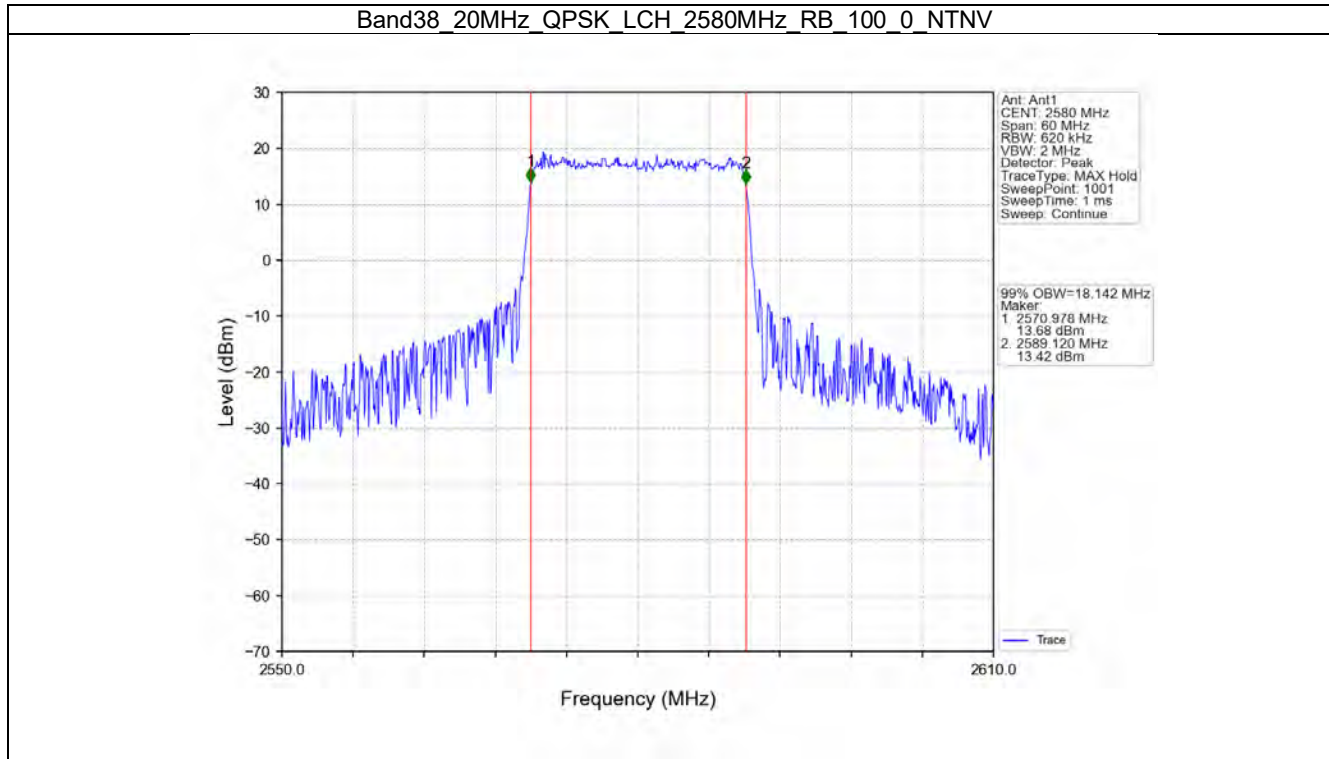


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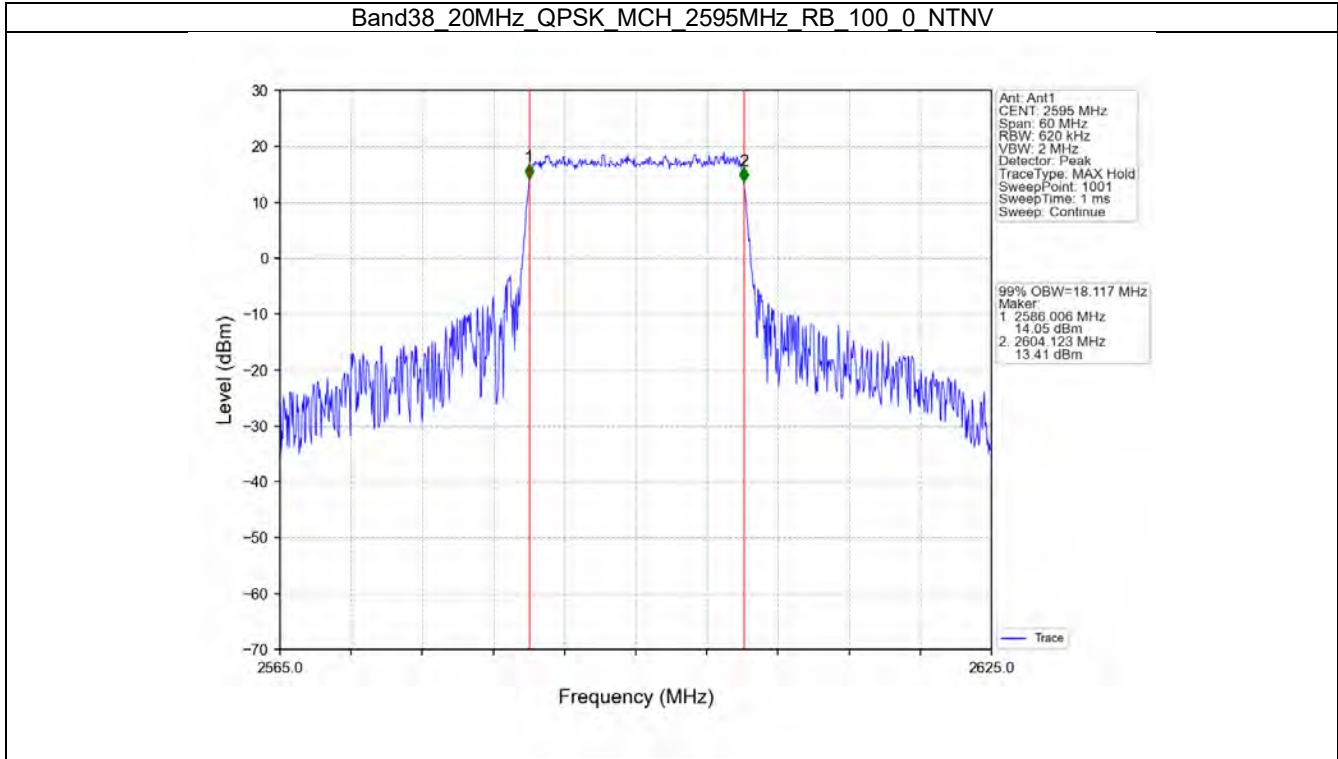
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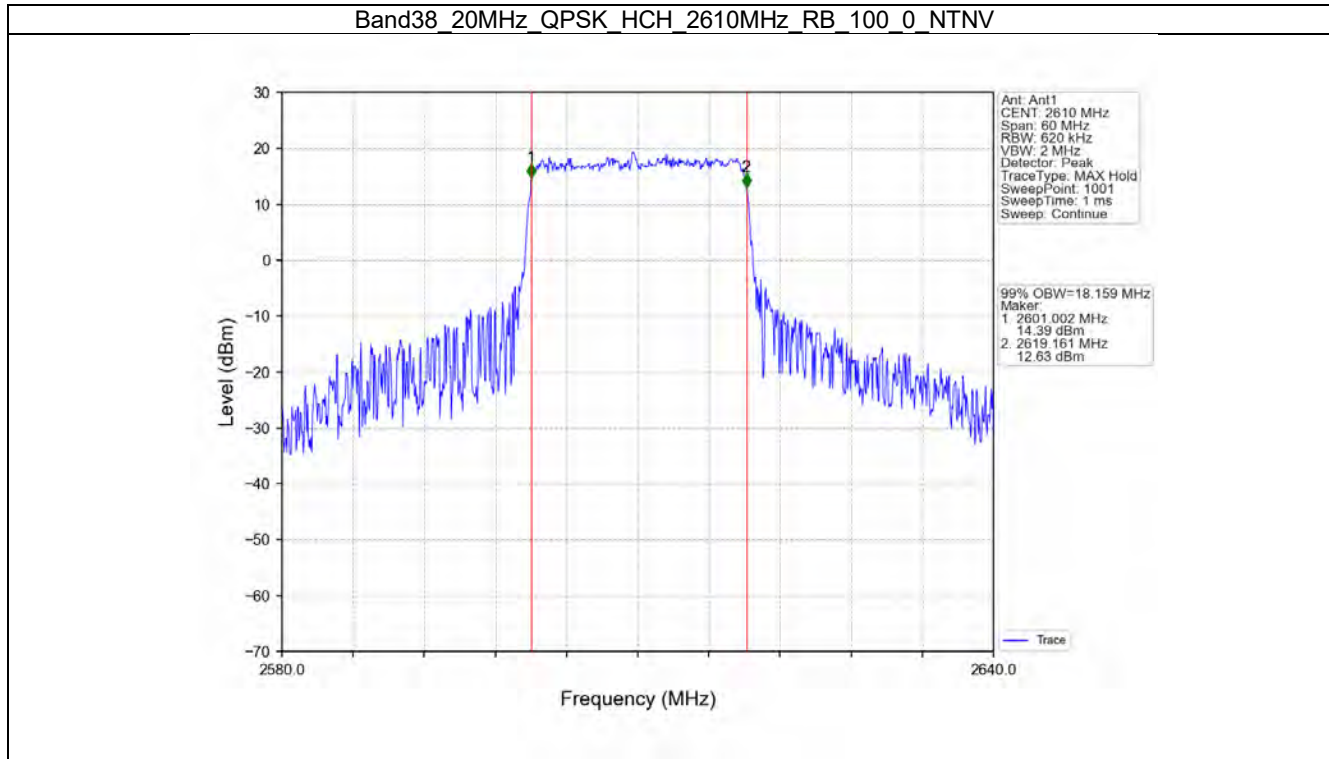


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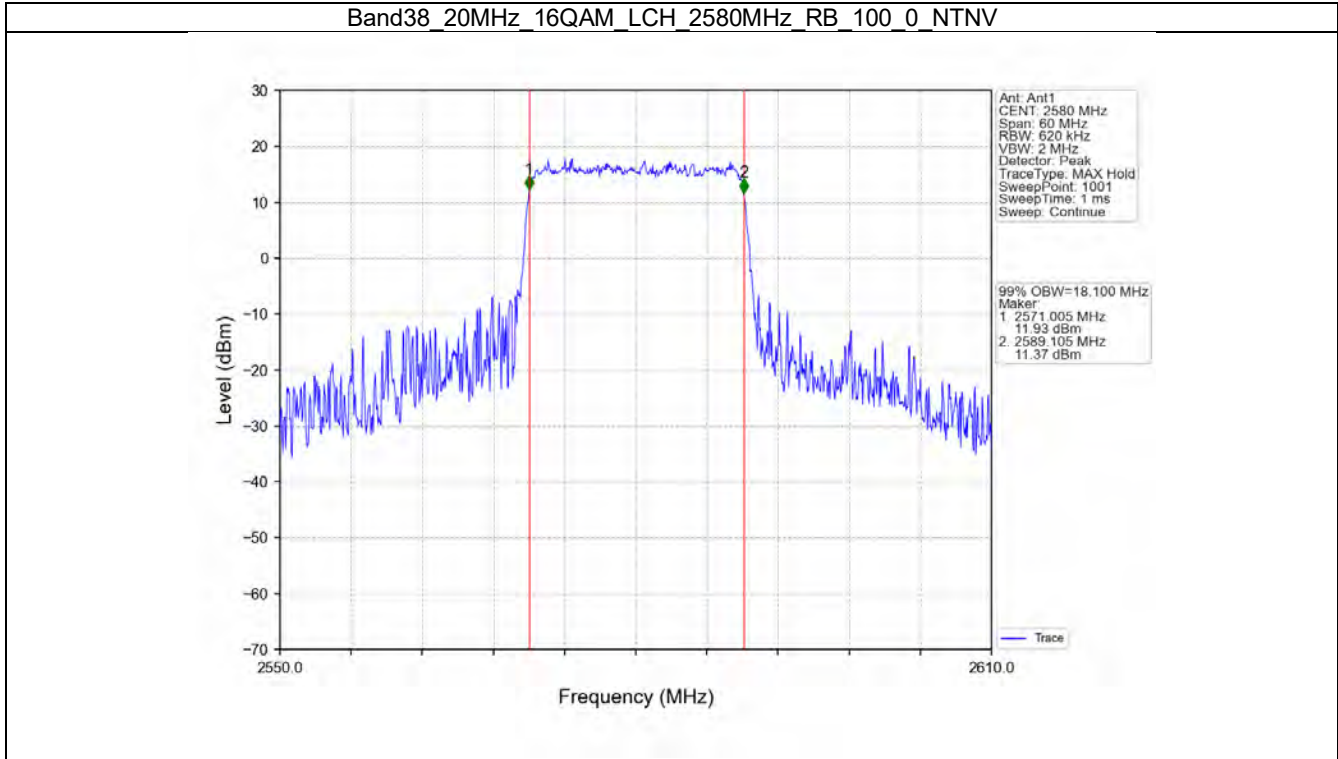
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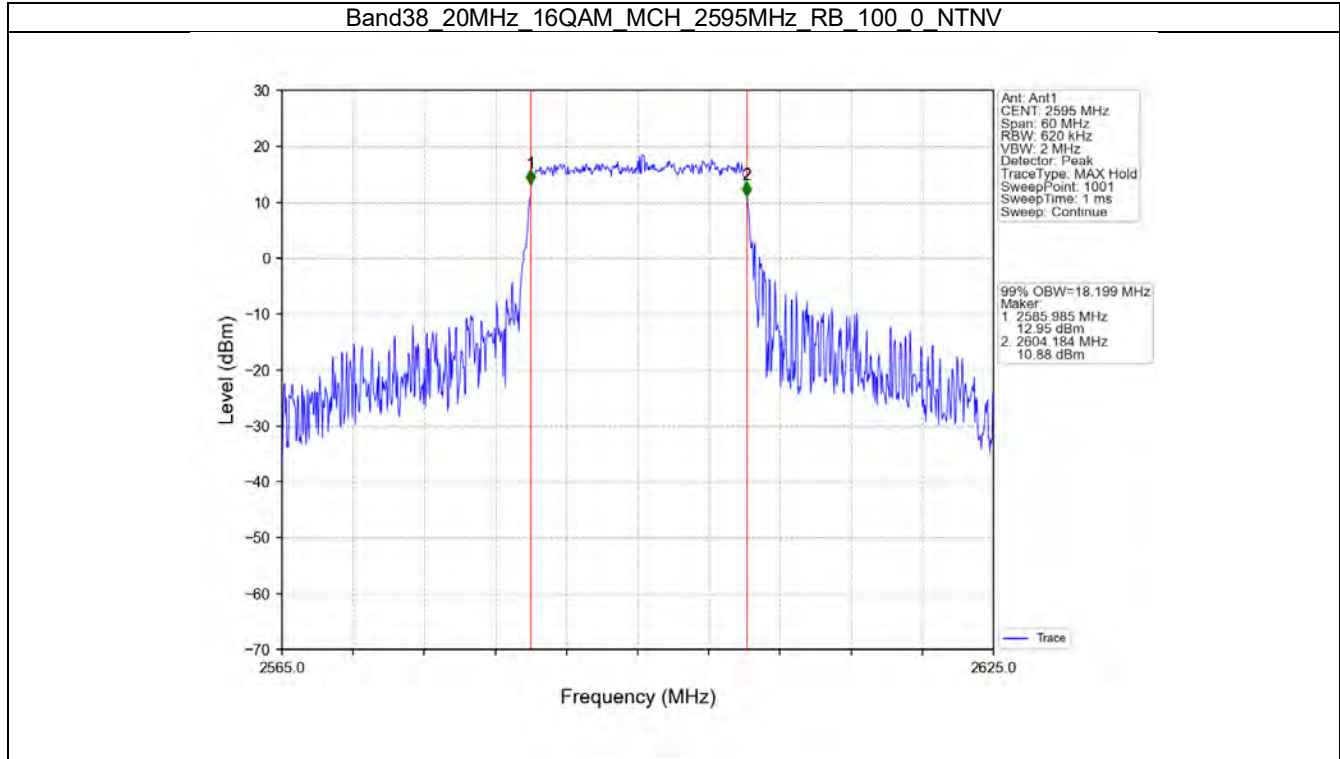
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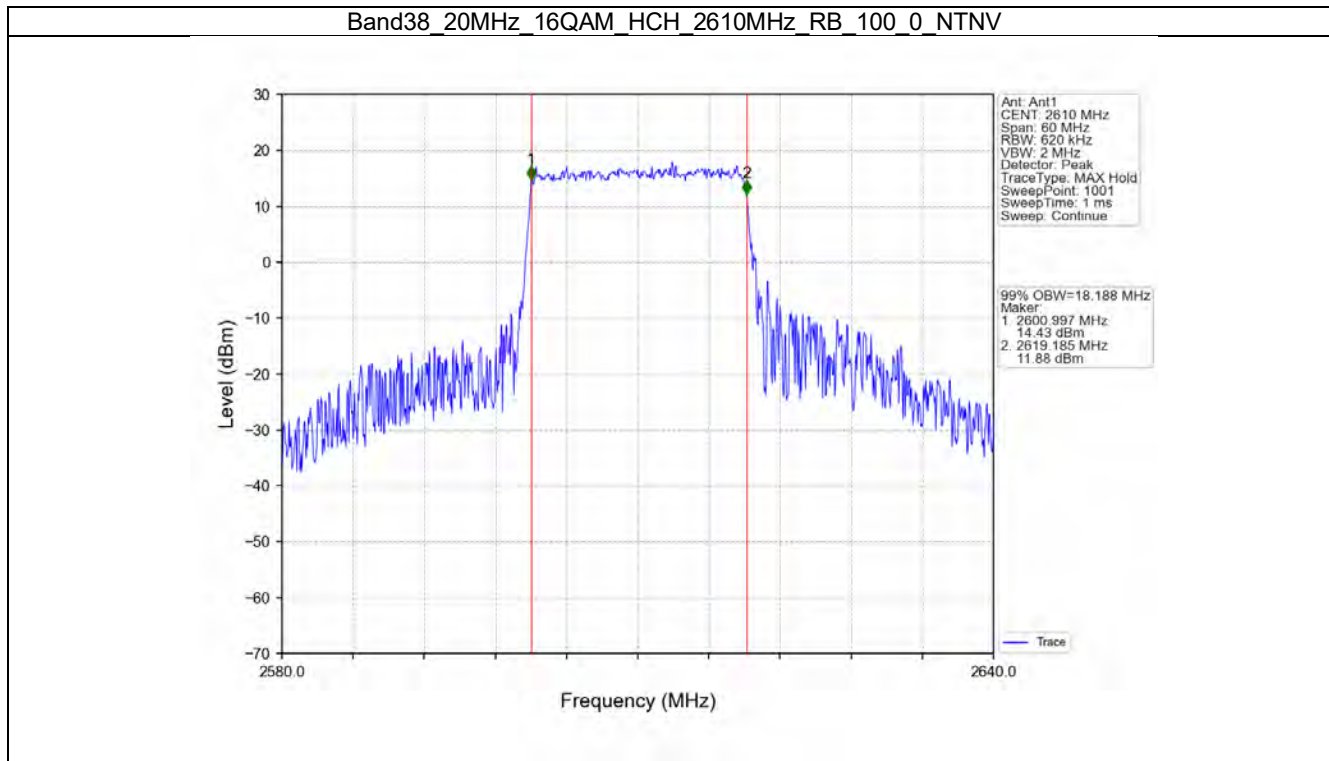


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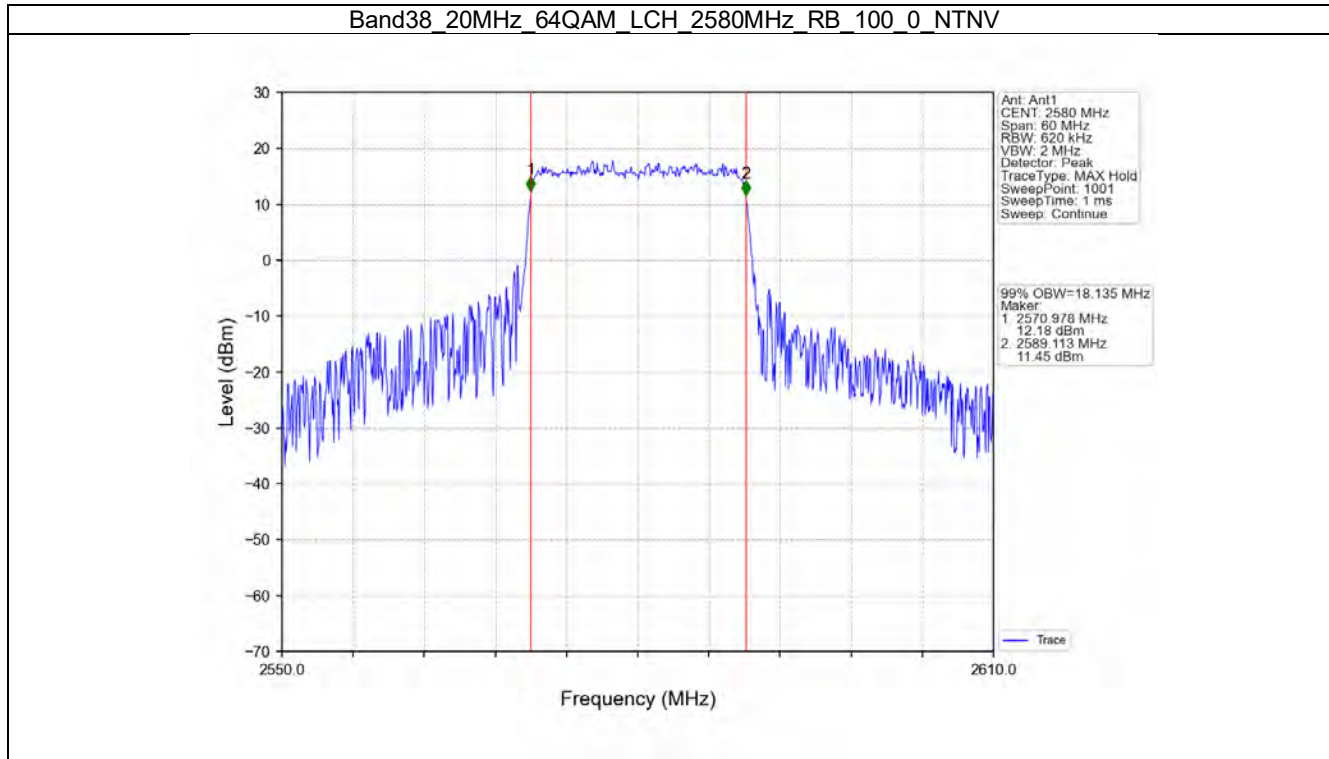


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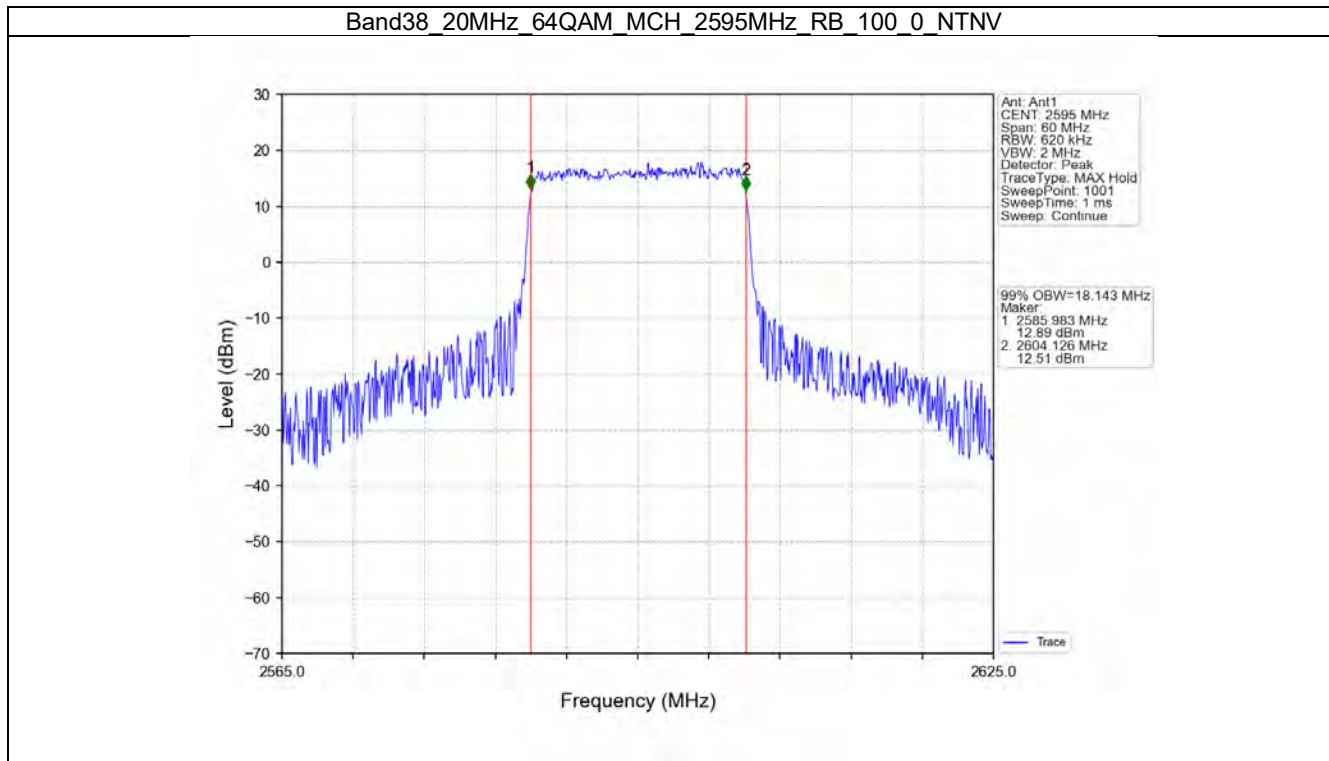


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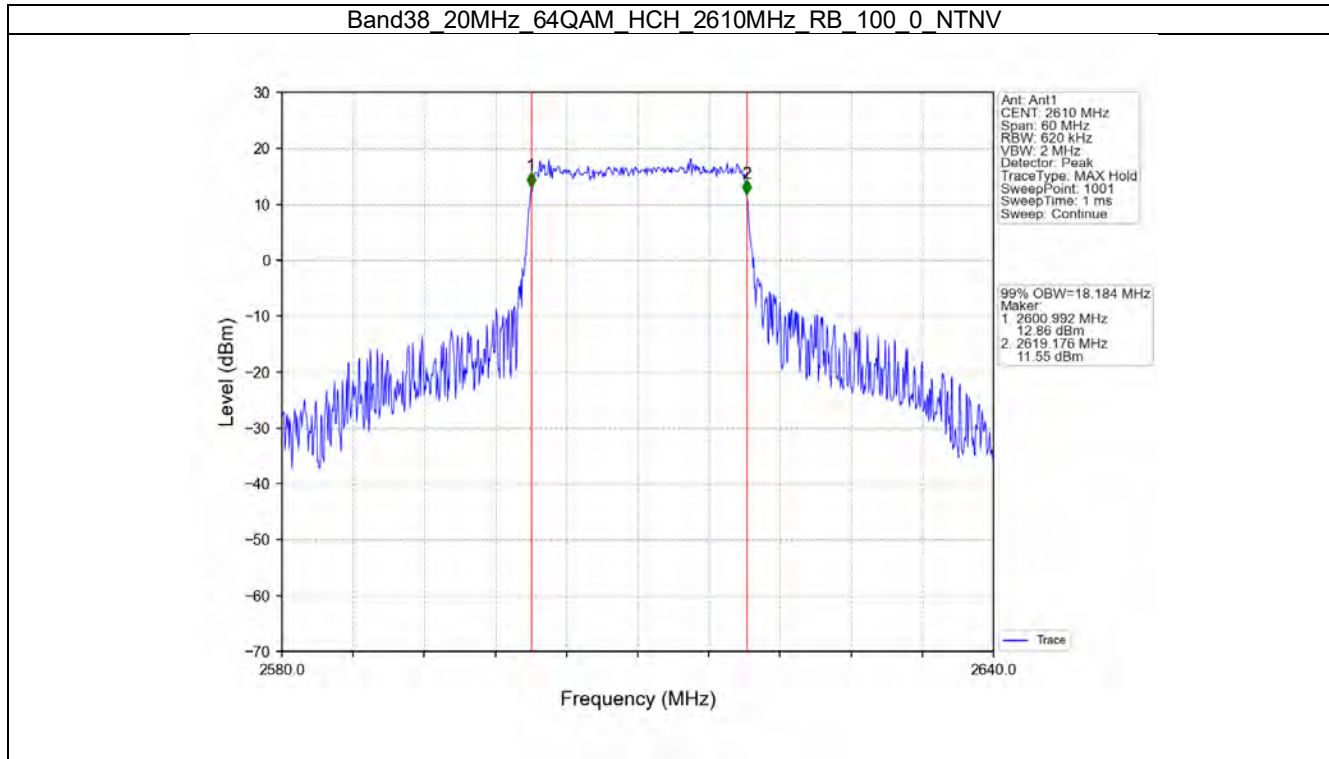


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3.2 Band38_XDB

3.2.1 Test Result

Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.885	/	Pass
		2595	25	0	5.091	/	Pass
		2617.5	25	0	4.998	/	Pass
	16QAM	2572.5	25	0	5.493	/	Pass
		2595	25	0	5.440	/	Pass
		2617.5	25	0	5.289	/	Pass
	64QAM	2572.5	25	0	5.390	/	Pass
		2595	25	0	5.631	/	Pass
		2617.5	25	0	5.418	/	Pass
10	QPSK	2575	50	0	10.571	/	Pass
		2595	50	0	11.201	/	Pass
		2615	50	0	11.306	/	Pass
	16QAM	2575	50	0	10.958	/	Pass
		2595	50	0	10.962	/	Pass
		2615	50	0	10.710	/	Pass
	64QAM	2575	50	0	10.042	/	Pass
		2595	50	0	10.288	/	Pass
		2615	50	0	10.598	/	Pass
15	QPSK	2577.5	75	0	15.918	/	Pass
		2595	75	0	18.920	/	Pass
		2612.5	75	0	16.265	/	Pass
	16QAM	2577.5	75	0	18.770	/	Pass
		2595	75	0	18.787	/	Pass
		2612.5	75	0	19.105	/	Pass
	64QAM	2577.5	75	0	15.699	/	Pass
		2595	75	0	16.676	/	Pass
		2612.5	75	0	16.886	/	Pass
20	QPSK	2580	100	0	20.695	/	Pass
		2595	100	0	22.592	/	Pass
		2610	100	0	21.403	/	Pass
	16QAM	2580	100	0	23.486	/	Pass
		2595	100	0	24.461	/	Pass
		2610	100	0	21.970	/	Pass
	64QAM	2580	100	0	26.180	/	Pass
		2595	100	0	20.971	/	Pass
		2610	100	0	22.081	/	Pass



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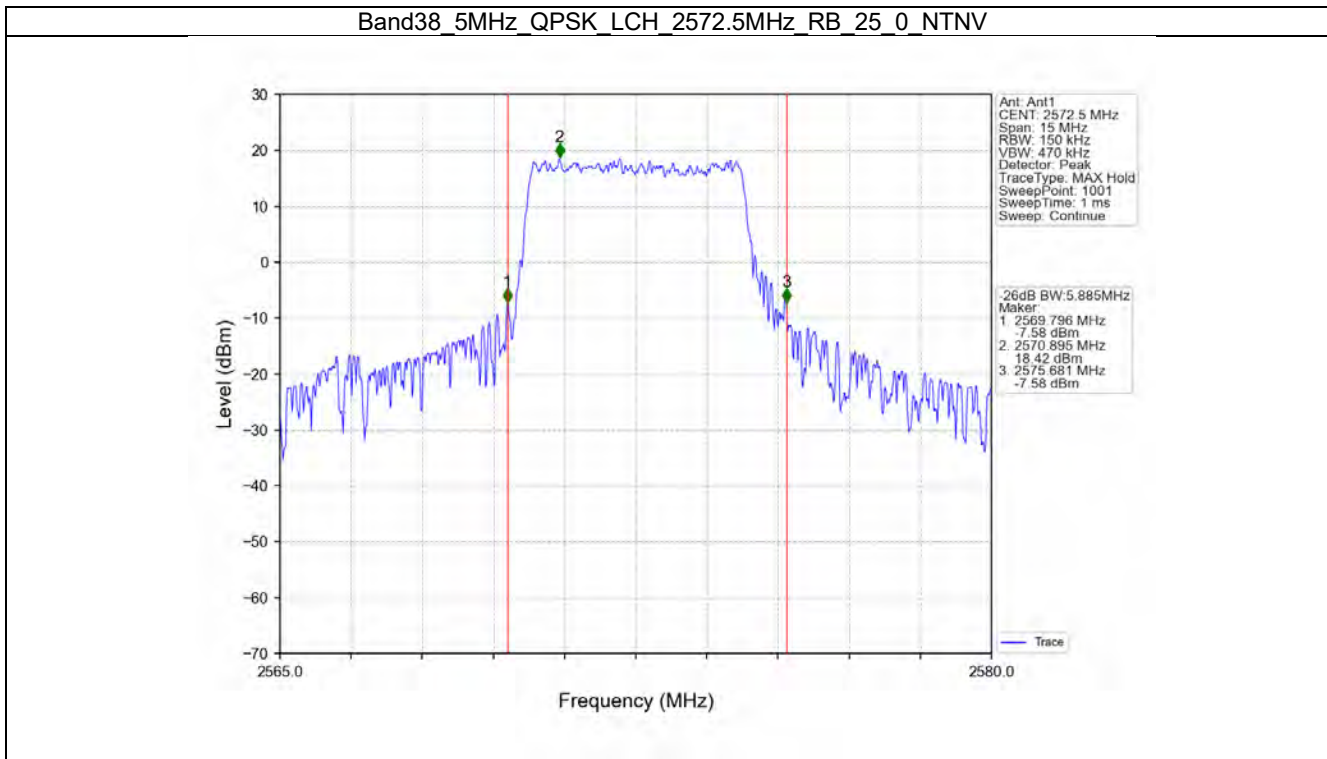
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3.2.2 Test Graph



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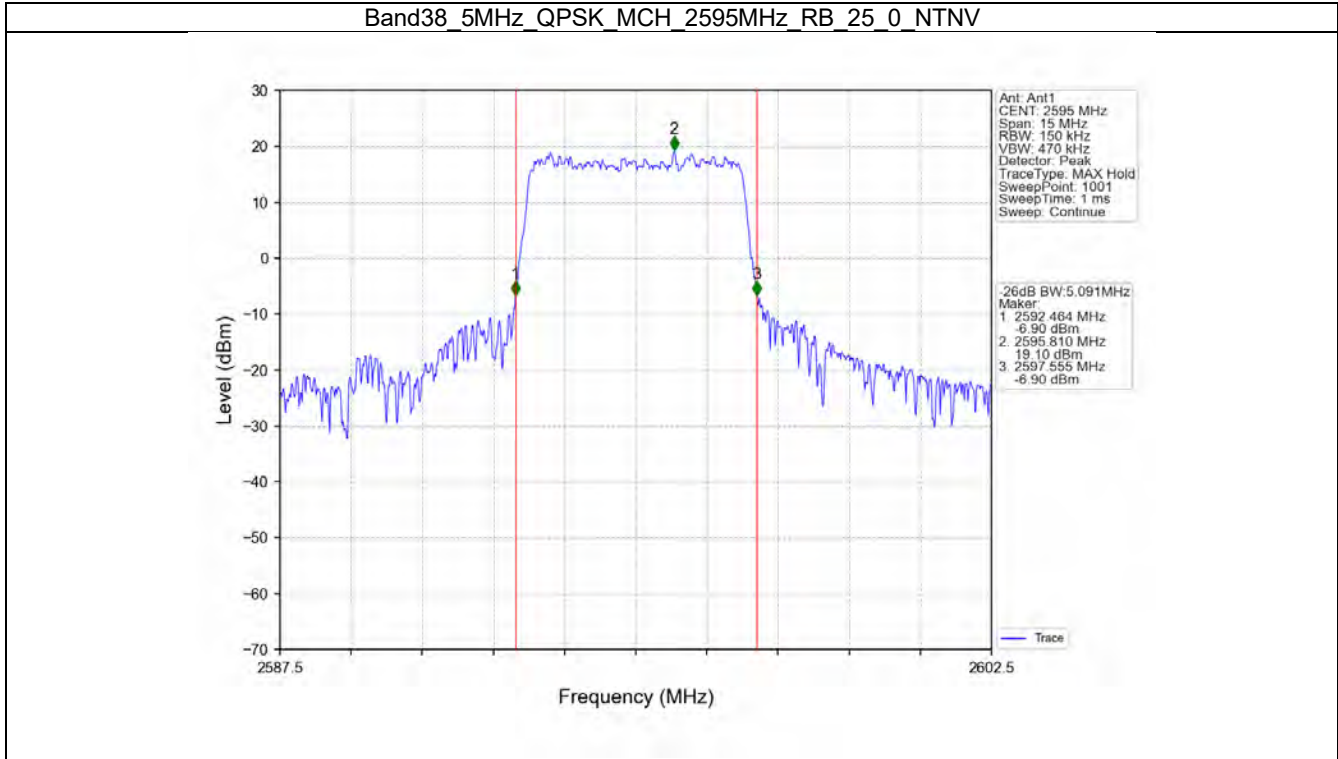
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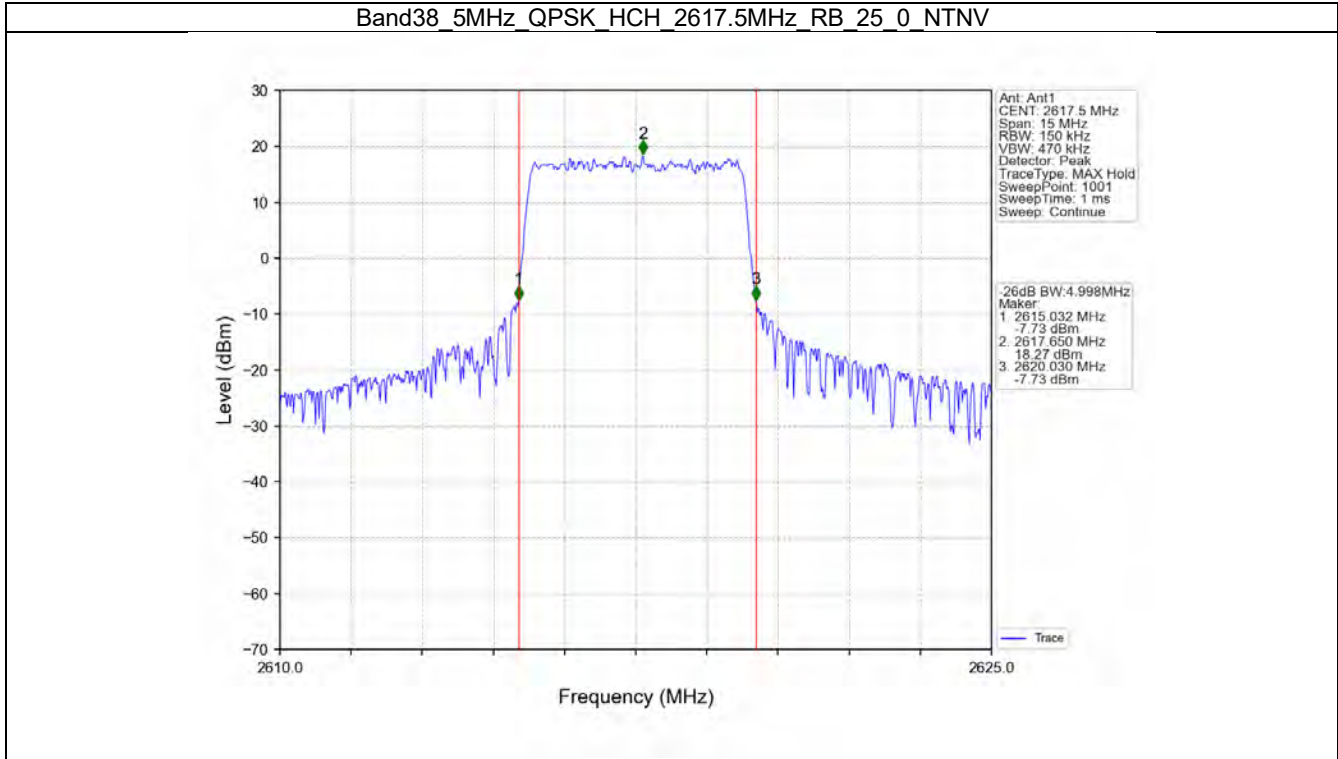
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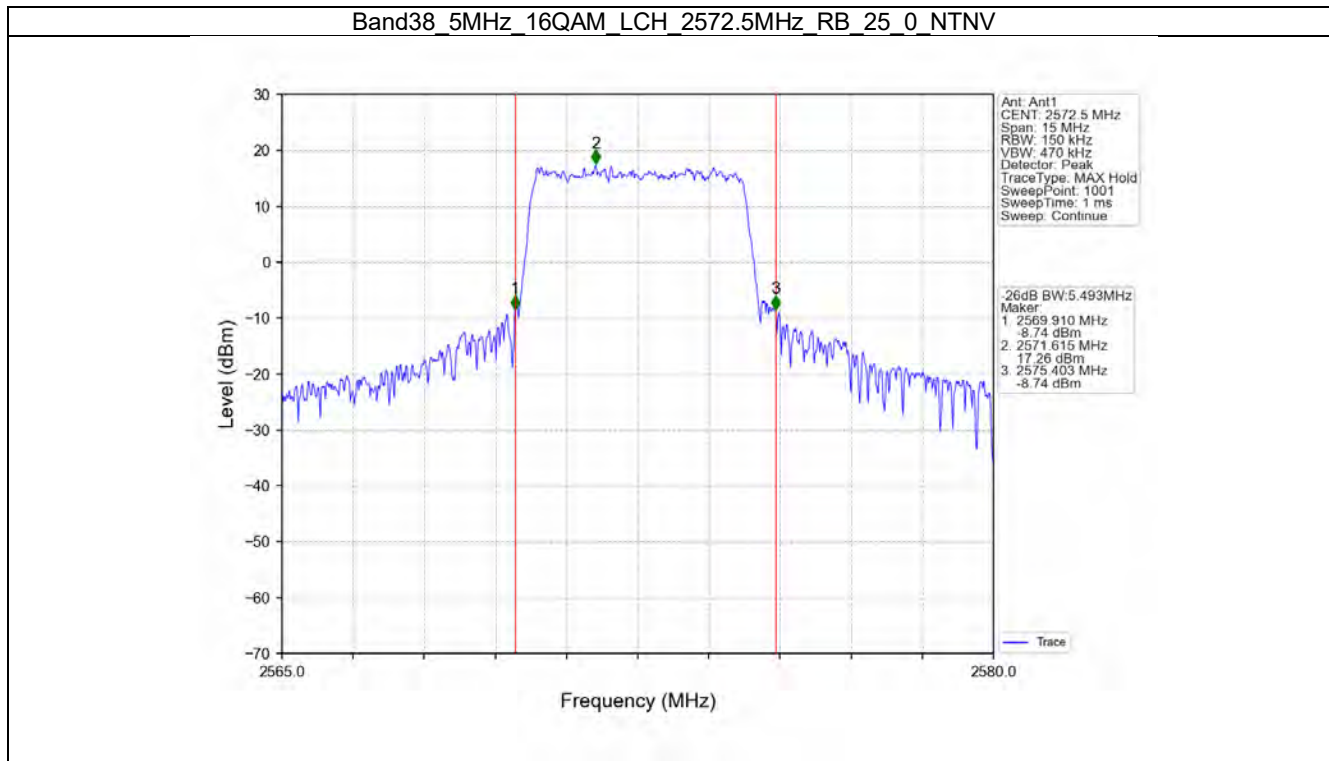


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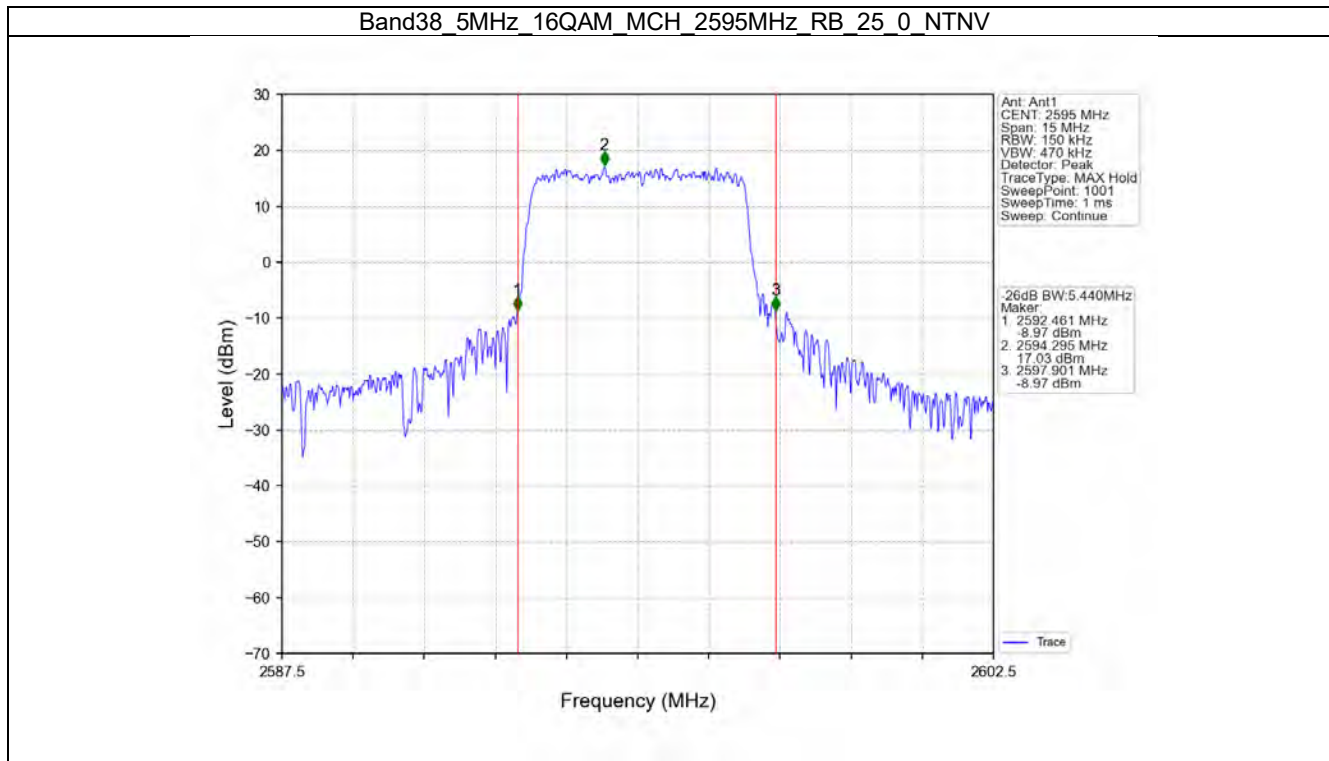


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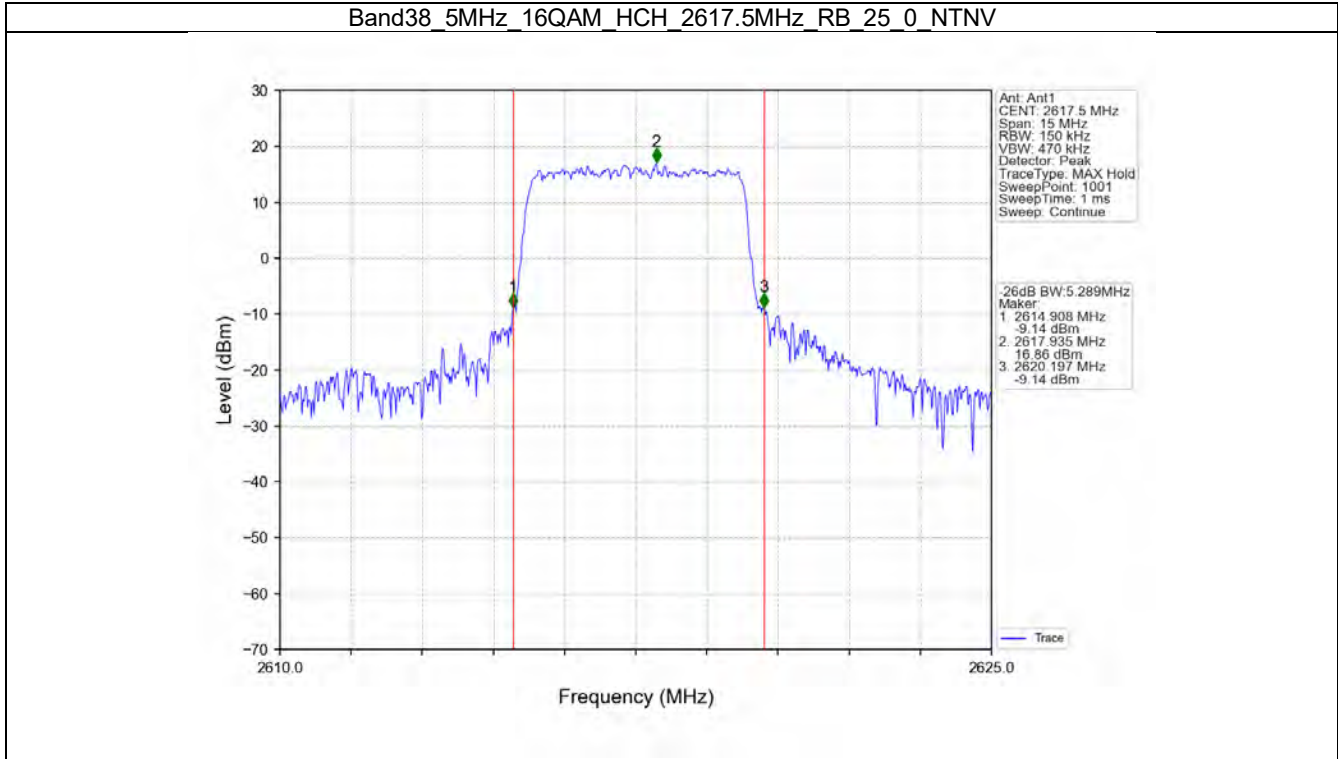
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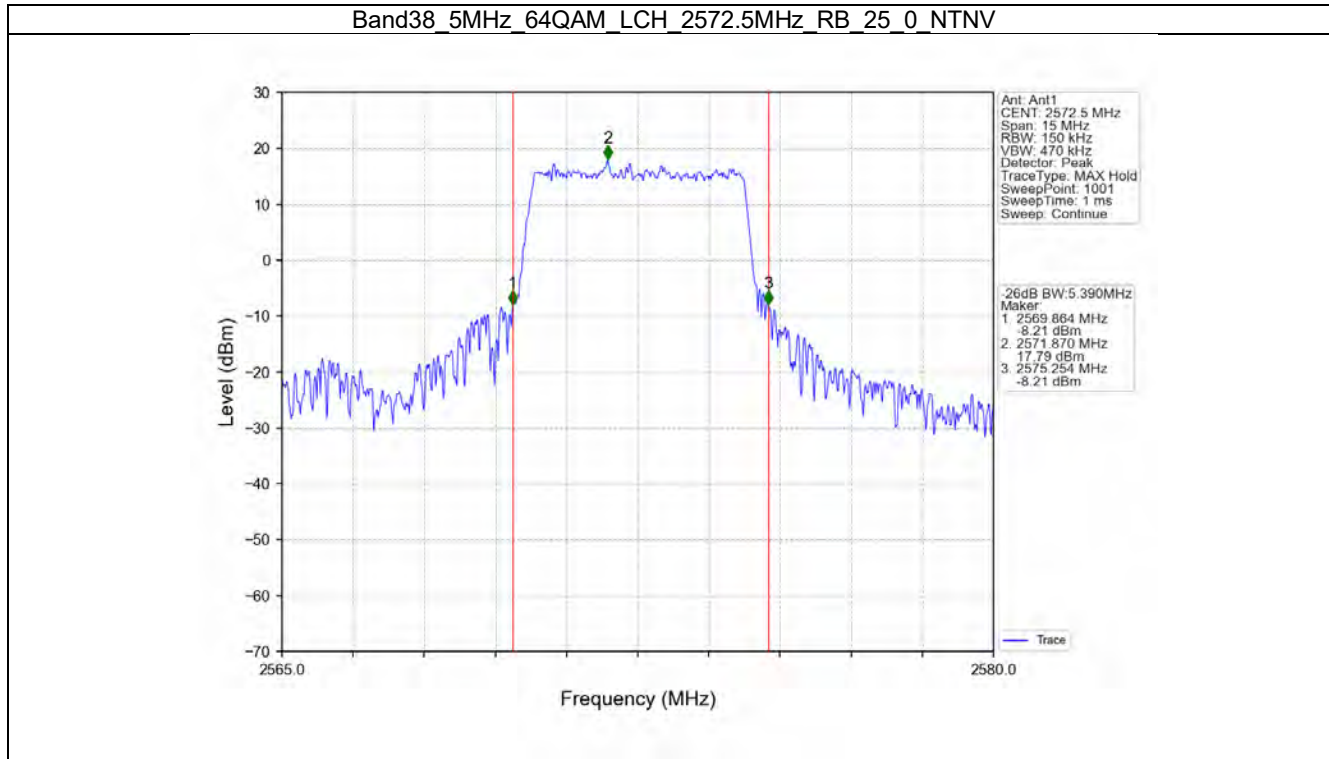


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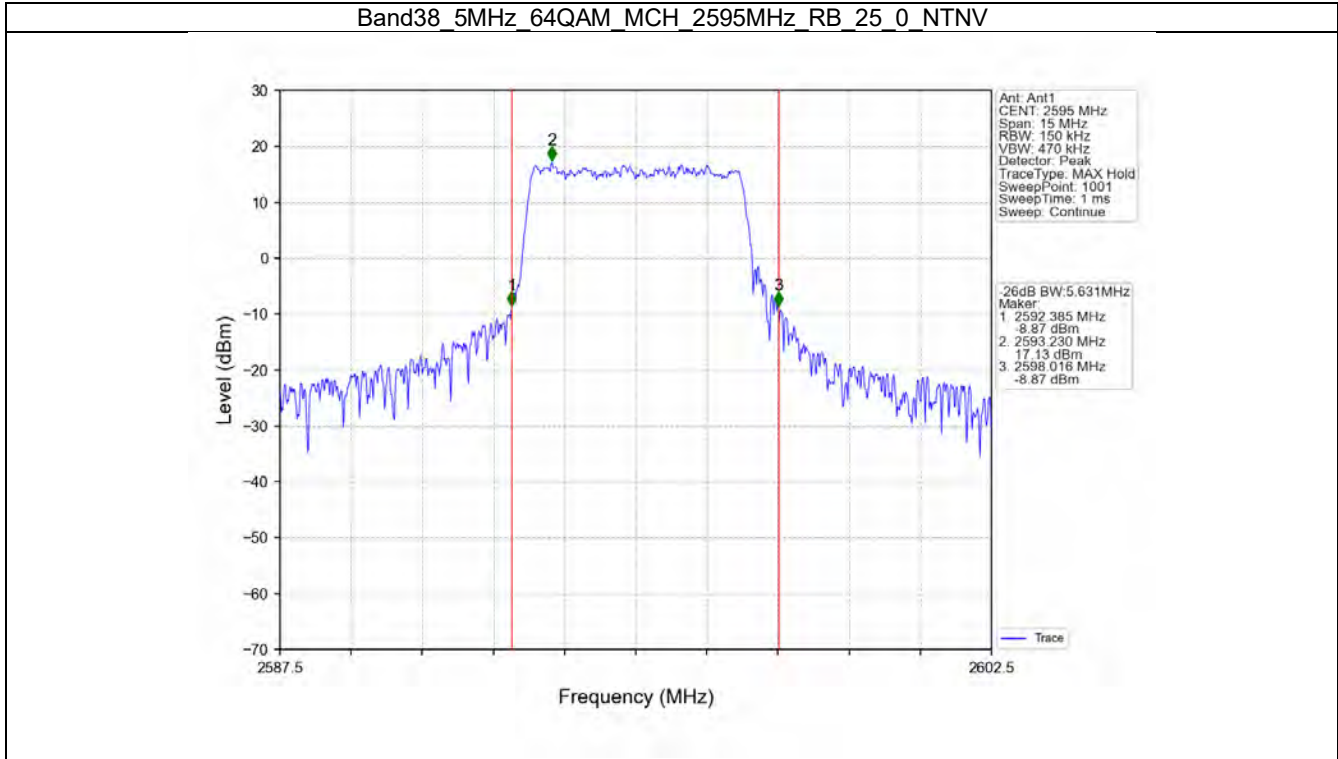
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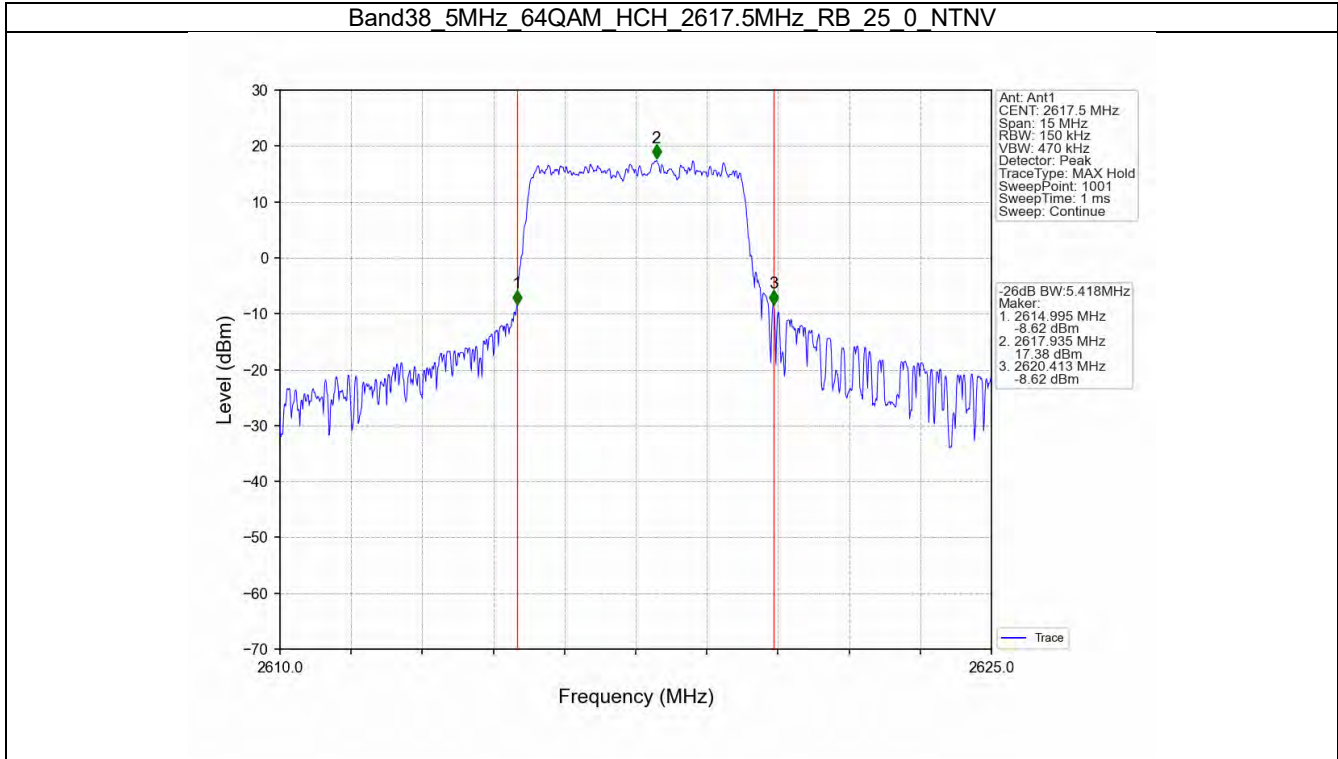
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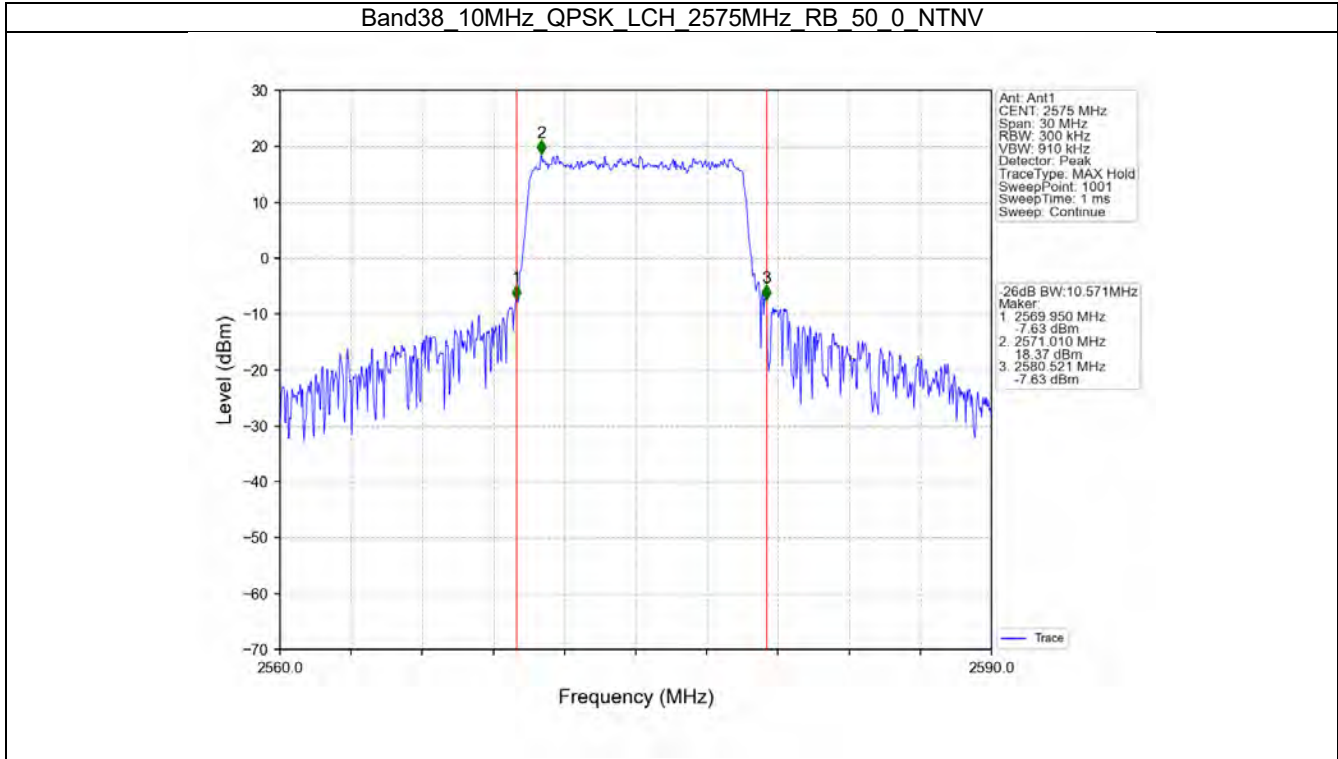
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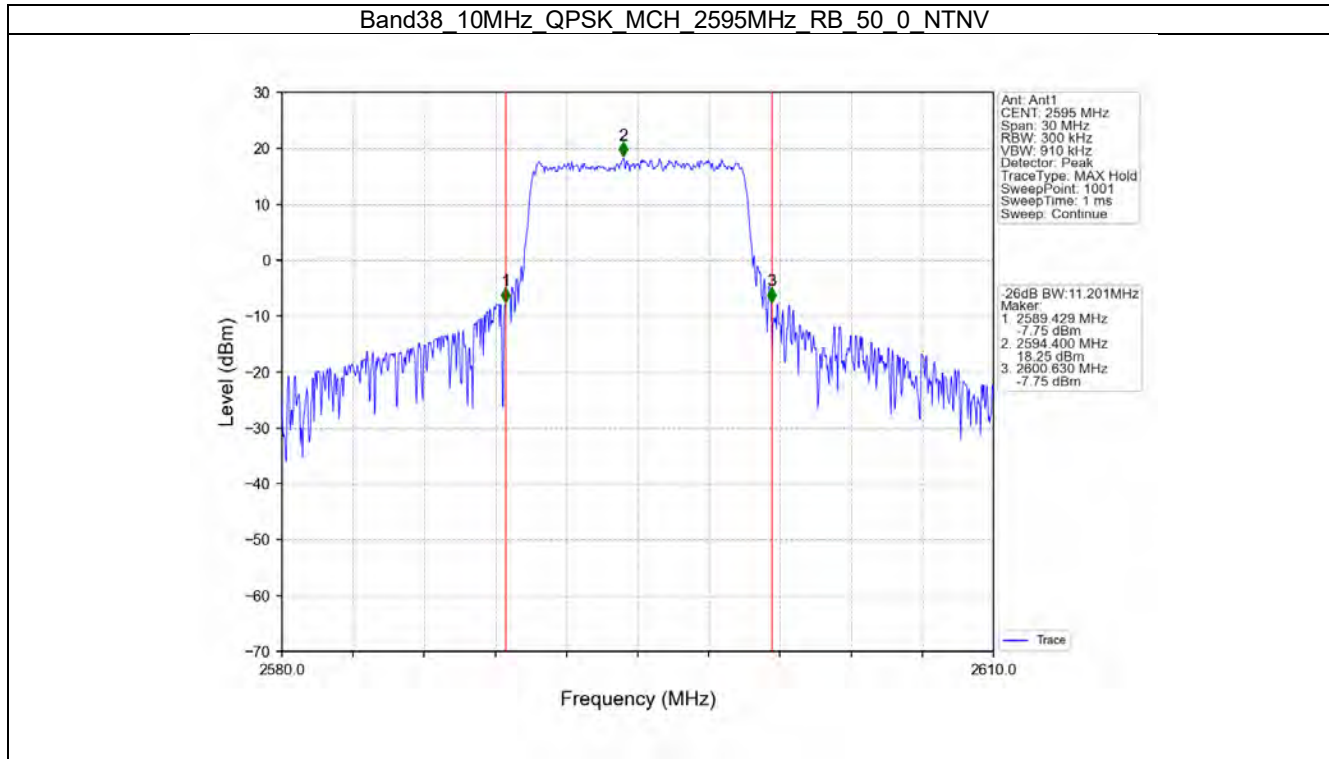


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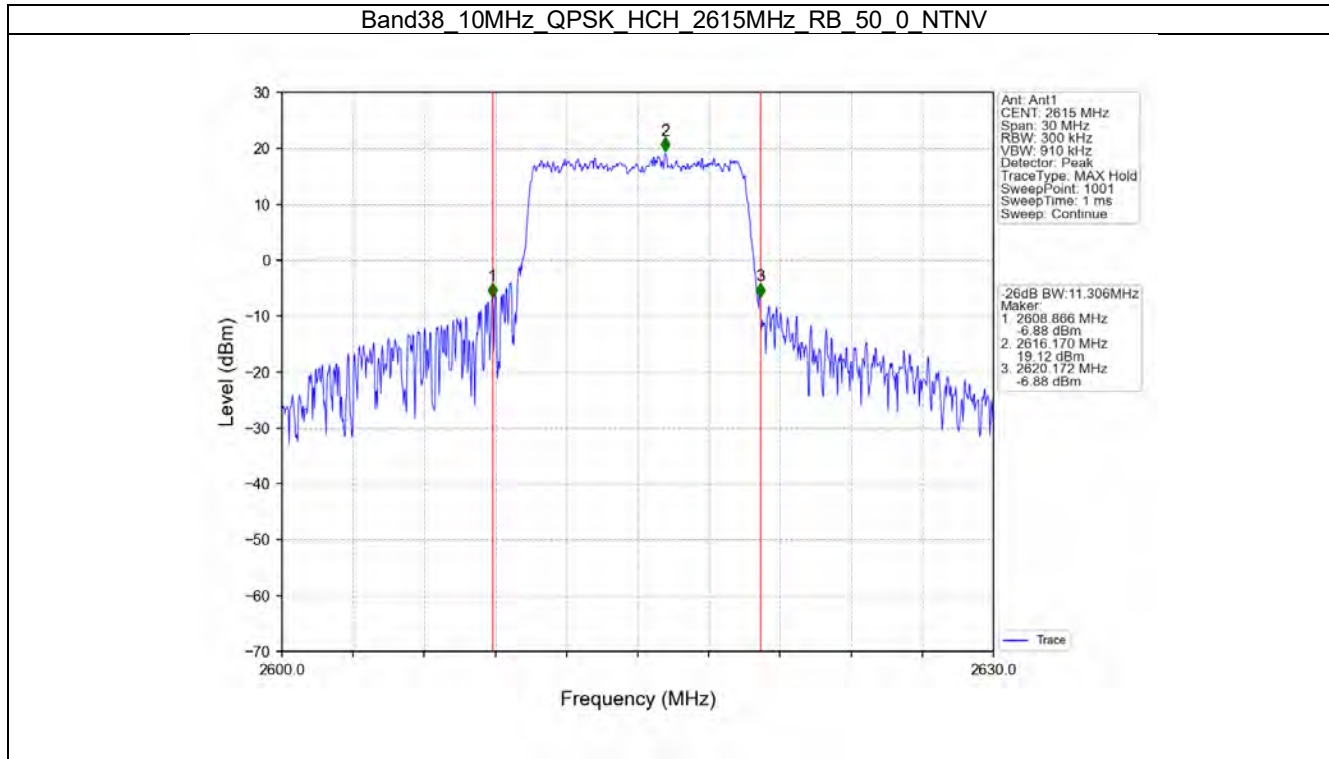


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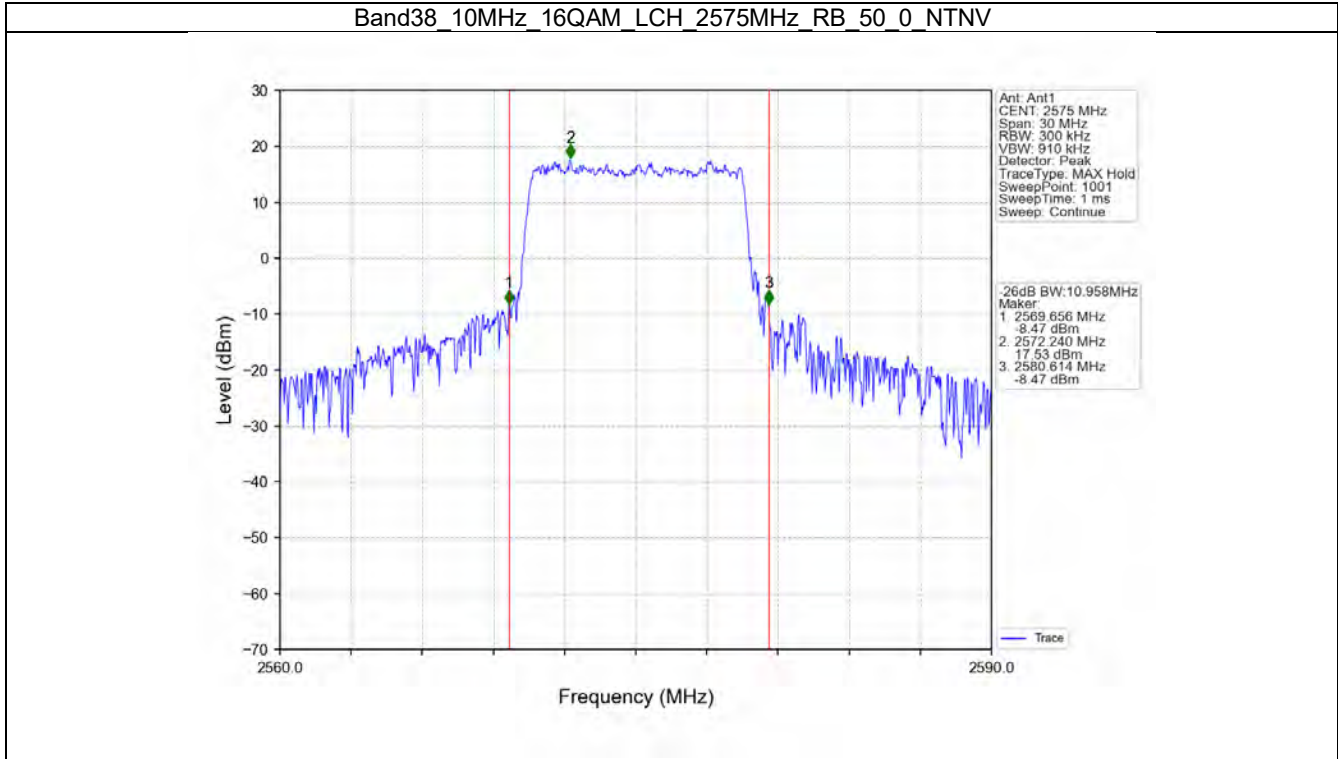
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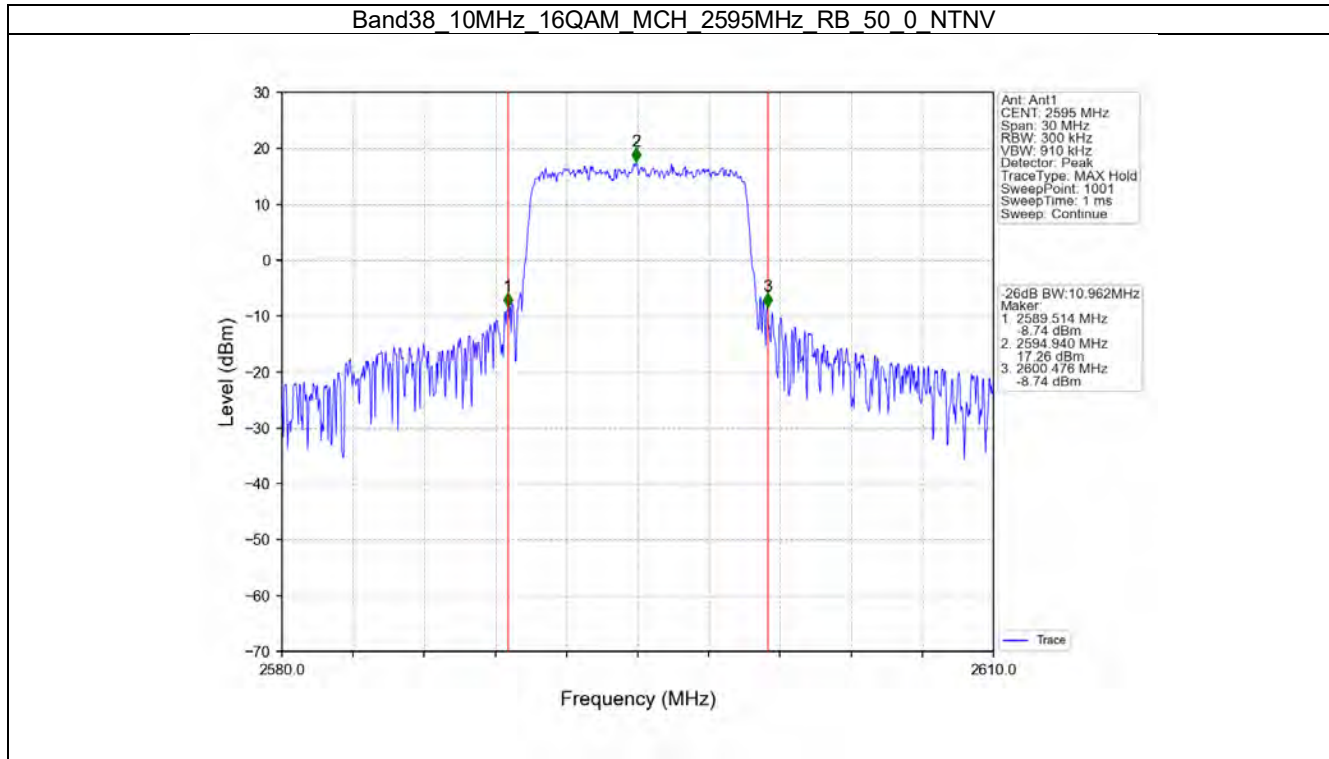


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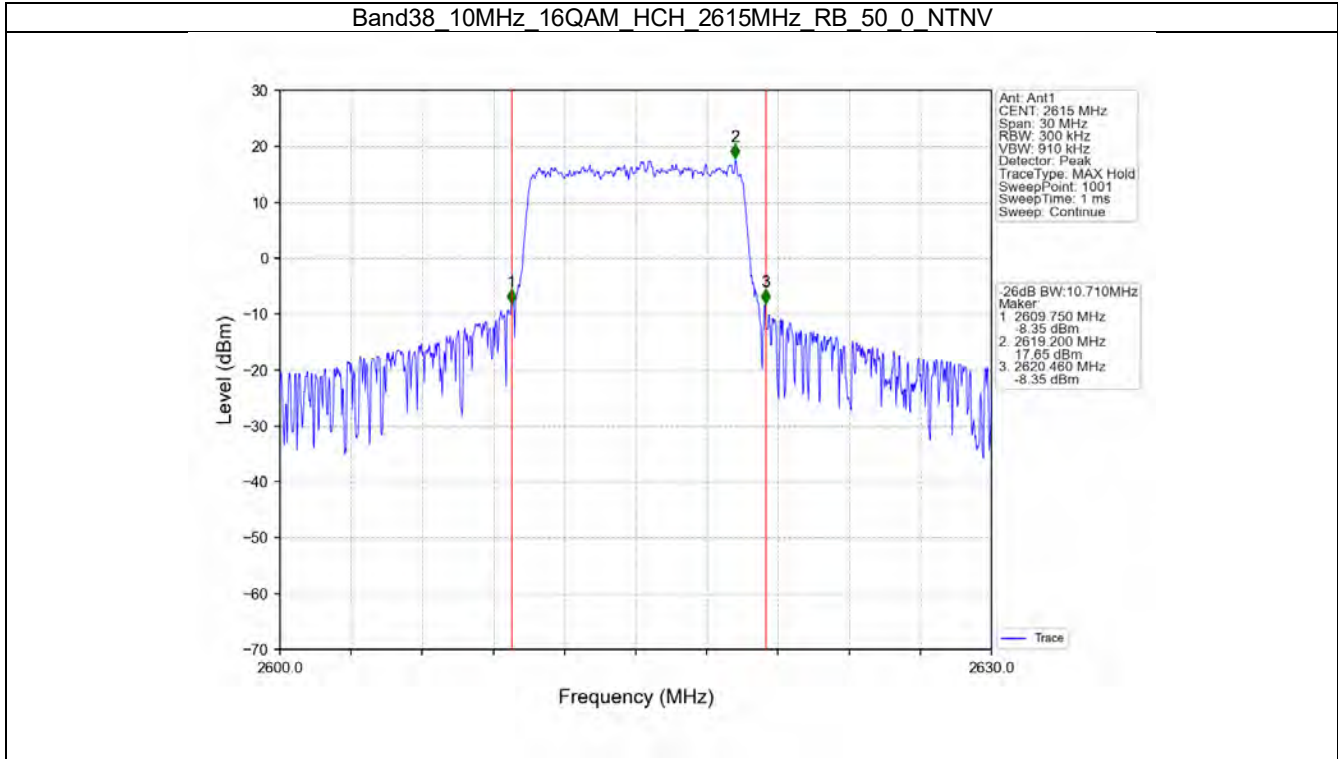
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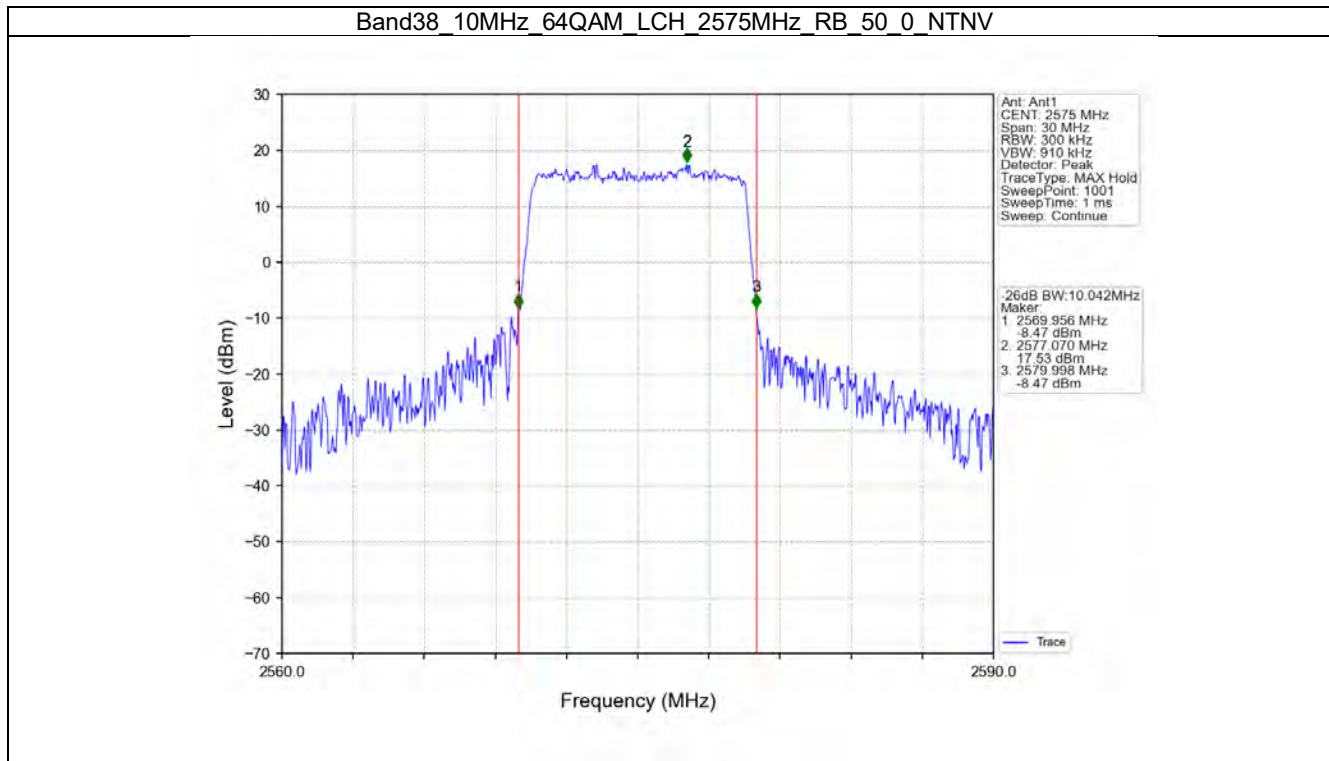


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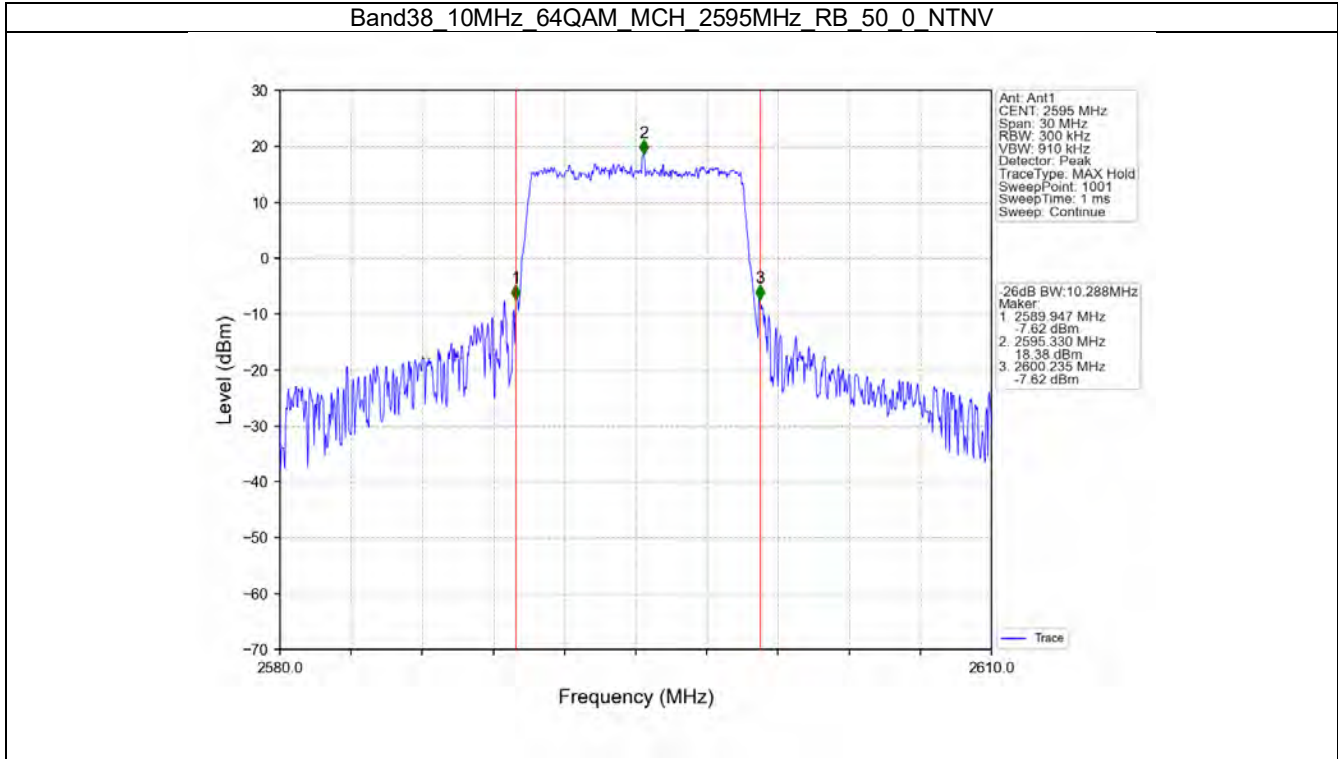
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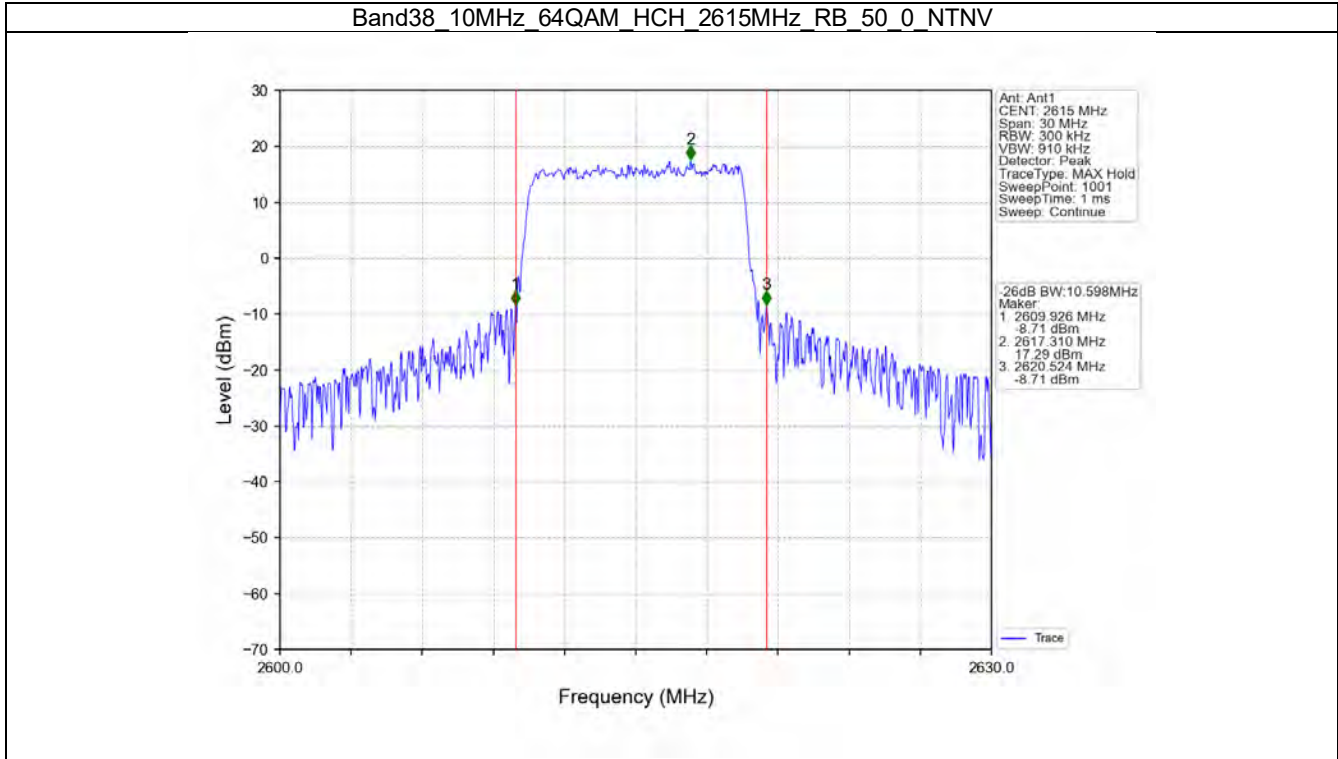
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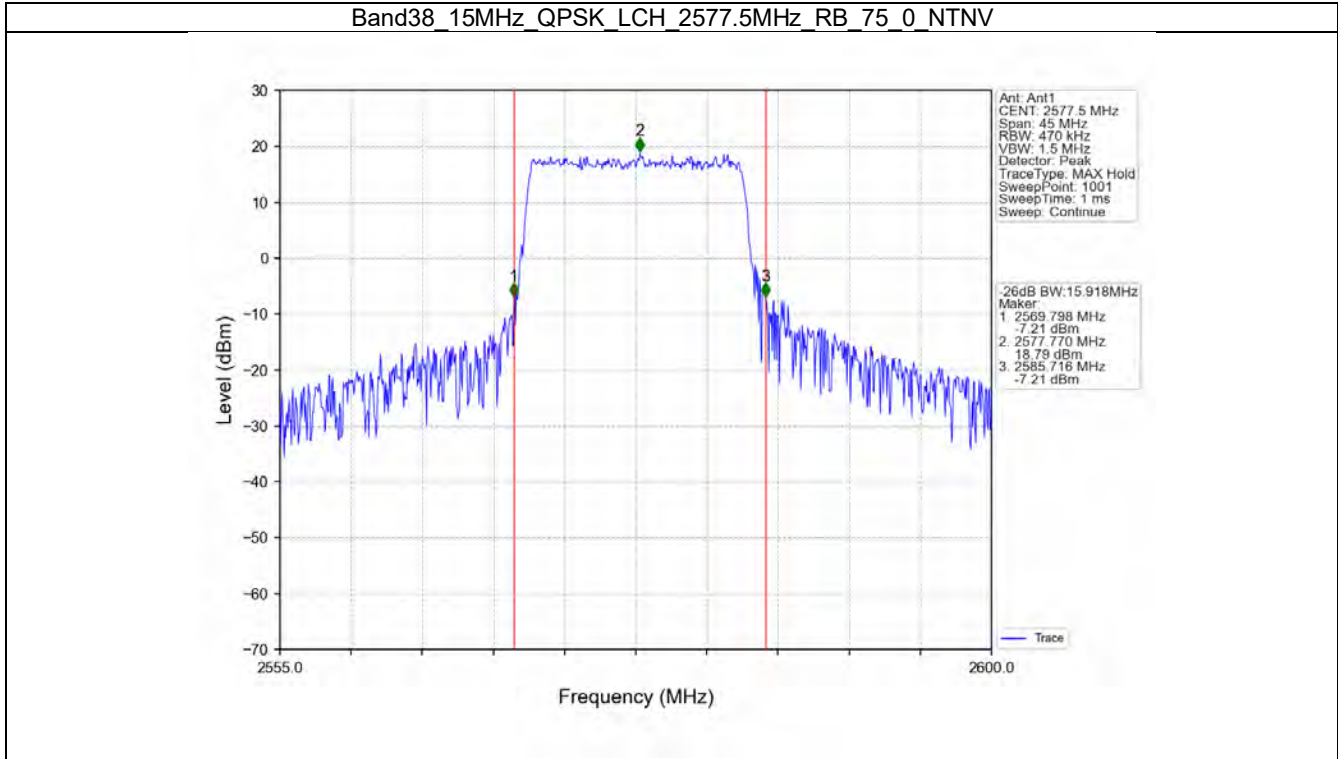
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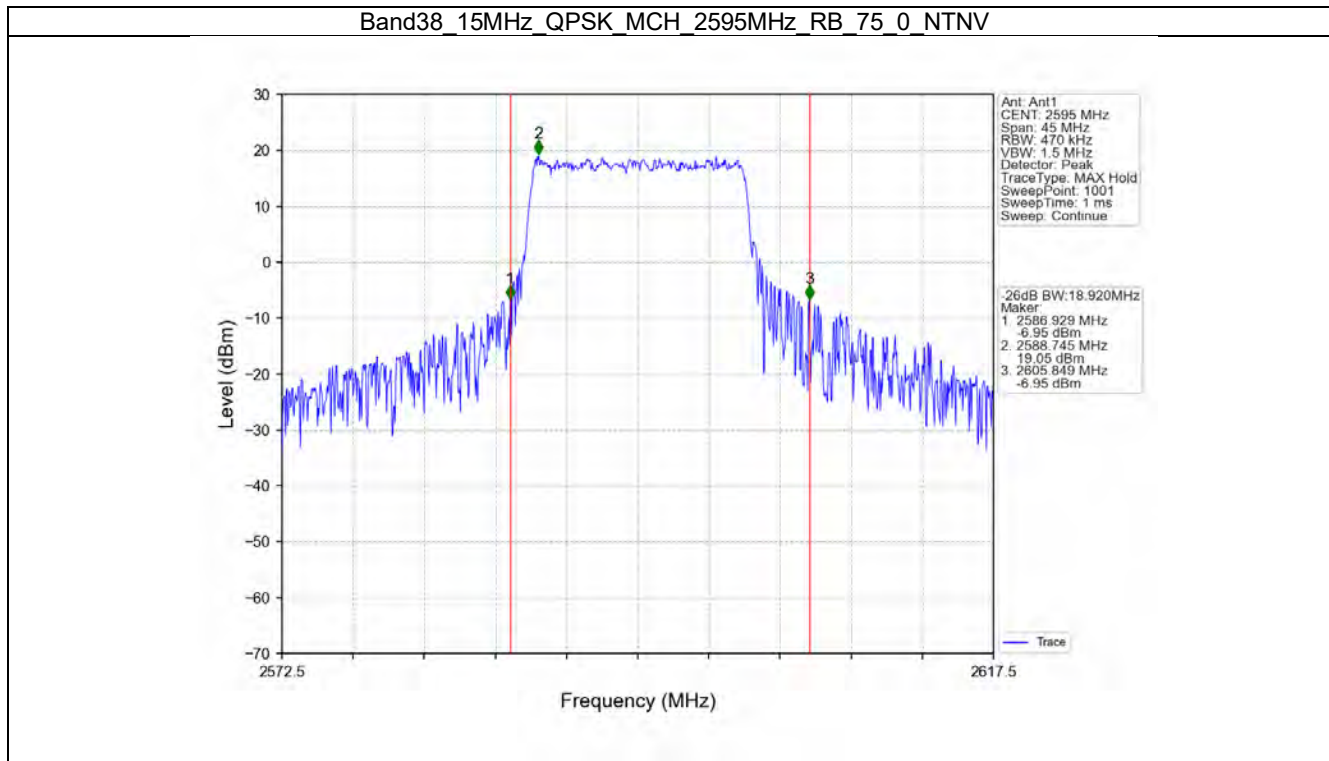


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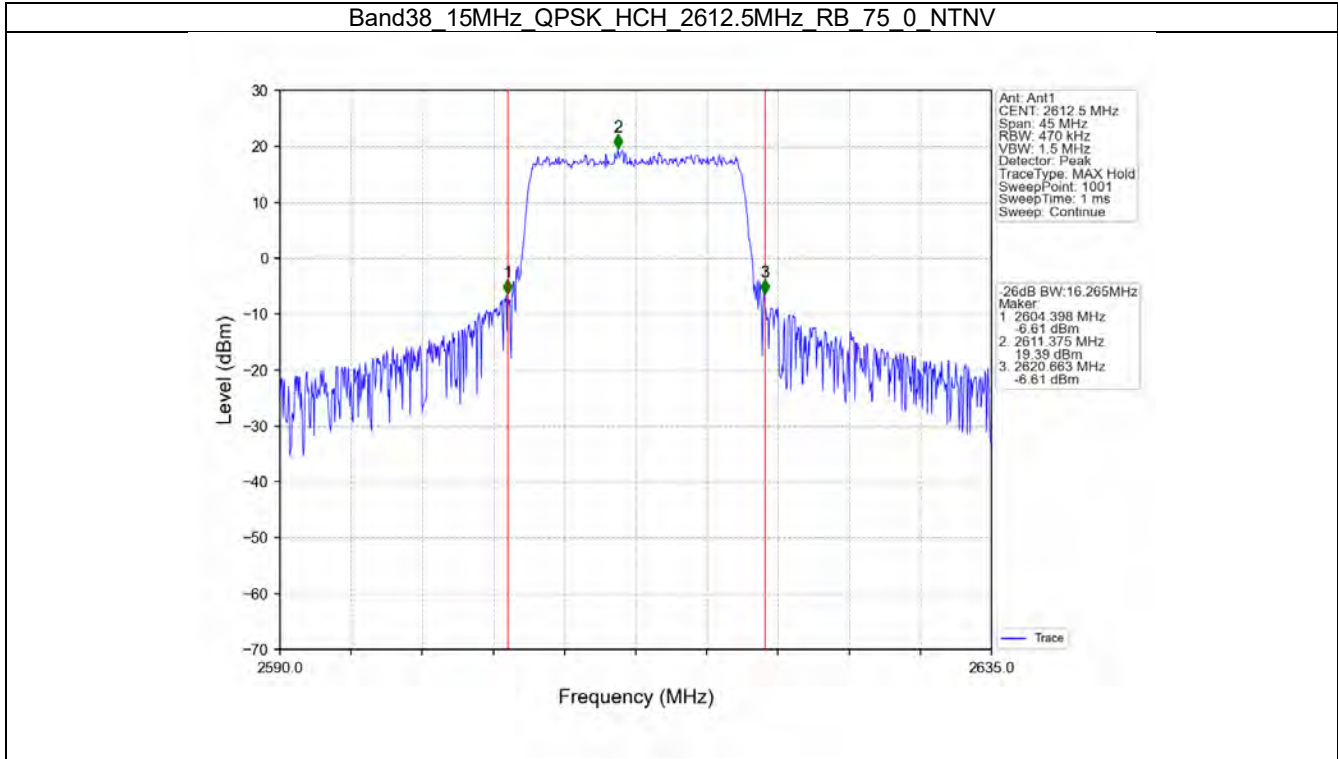
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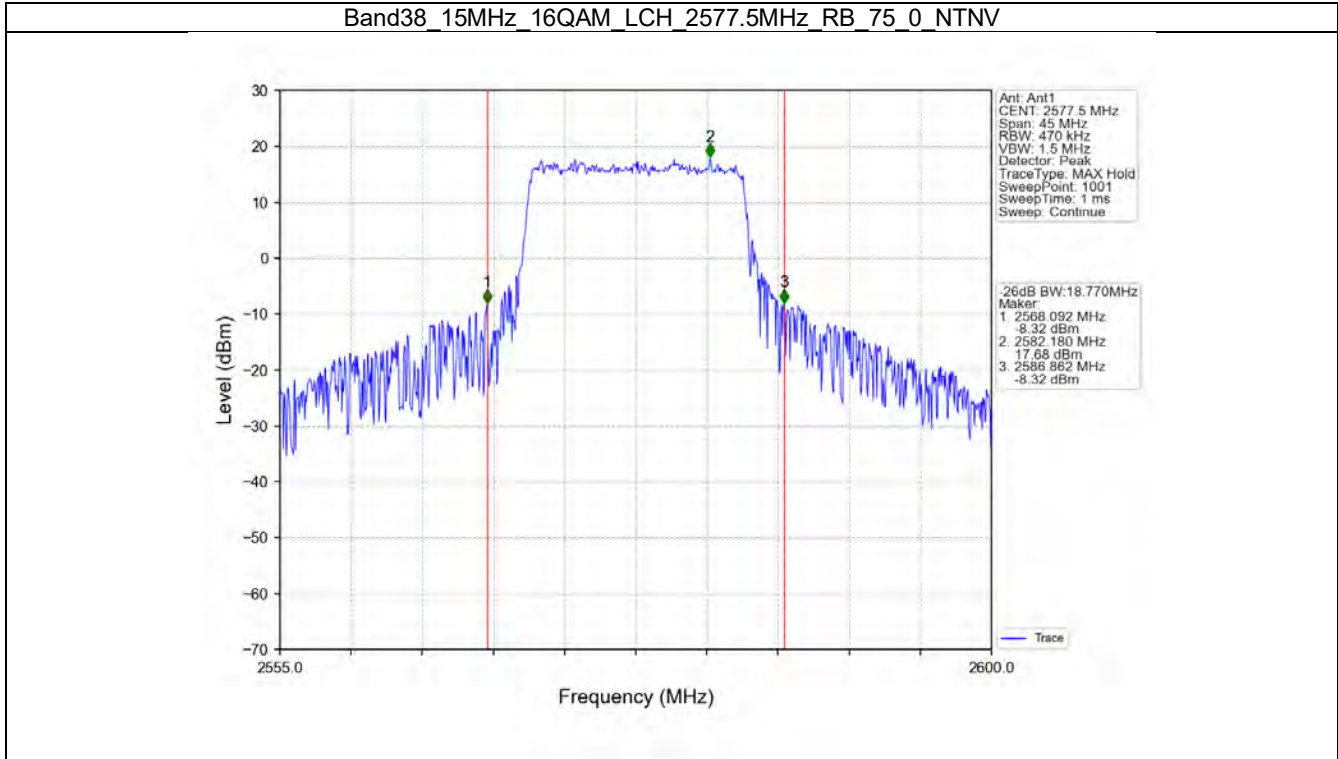
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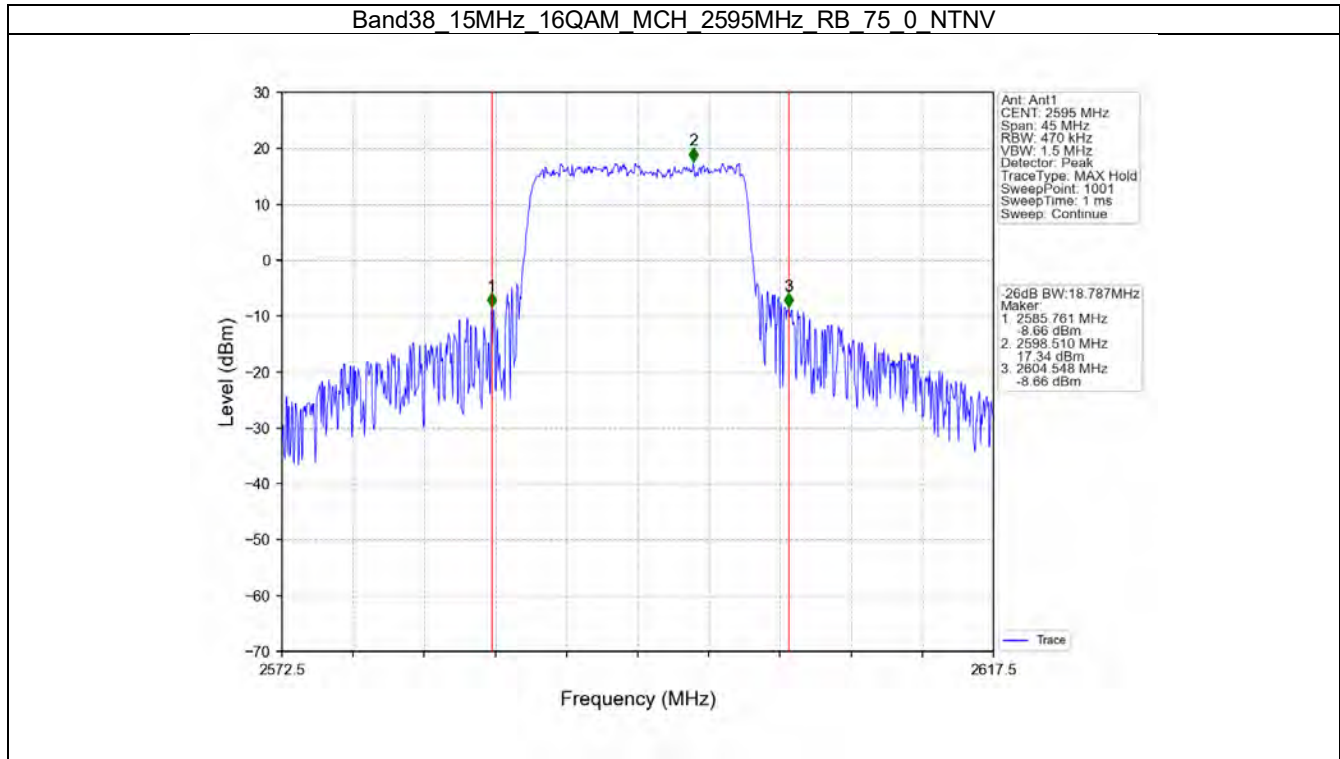
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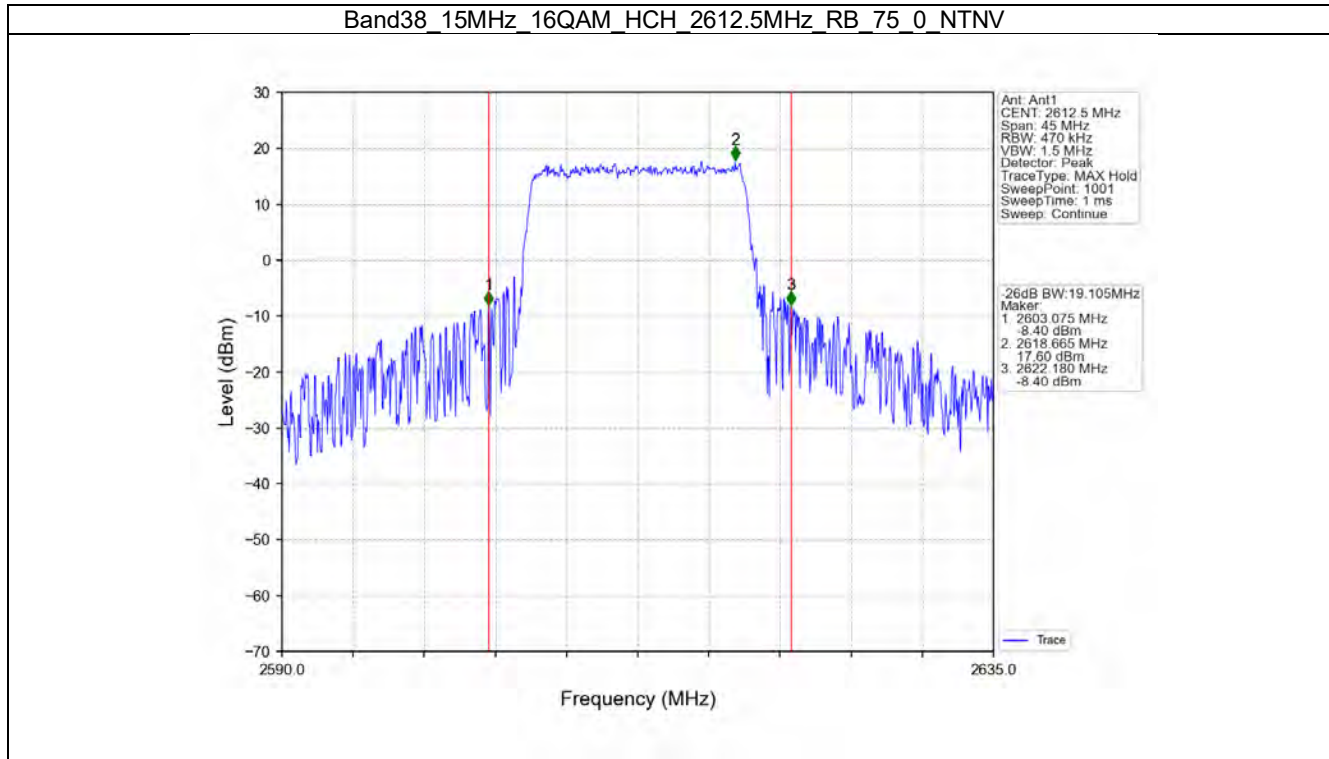


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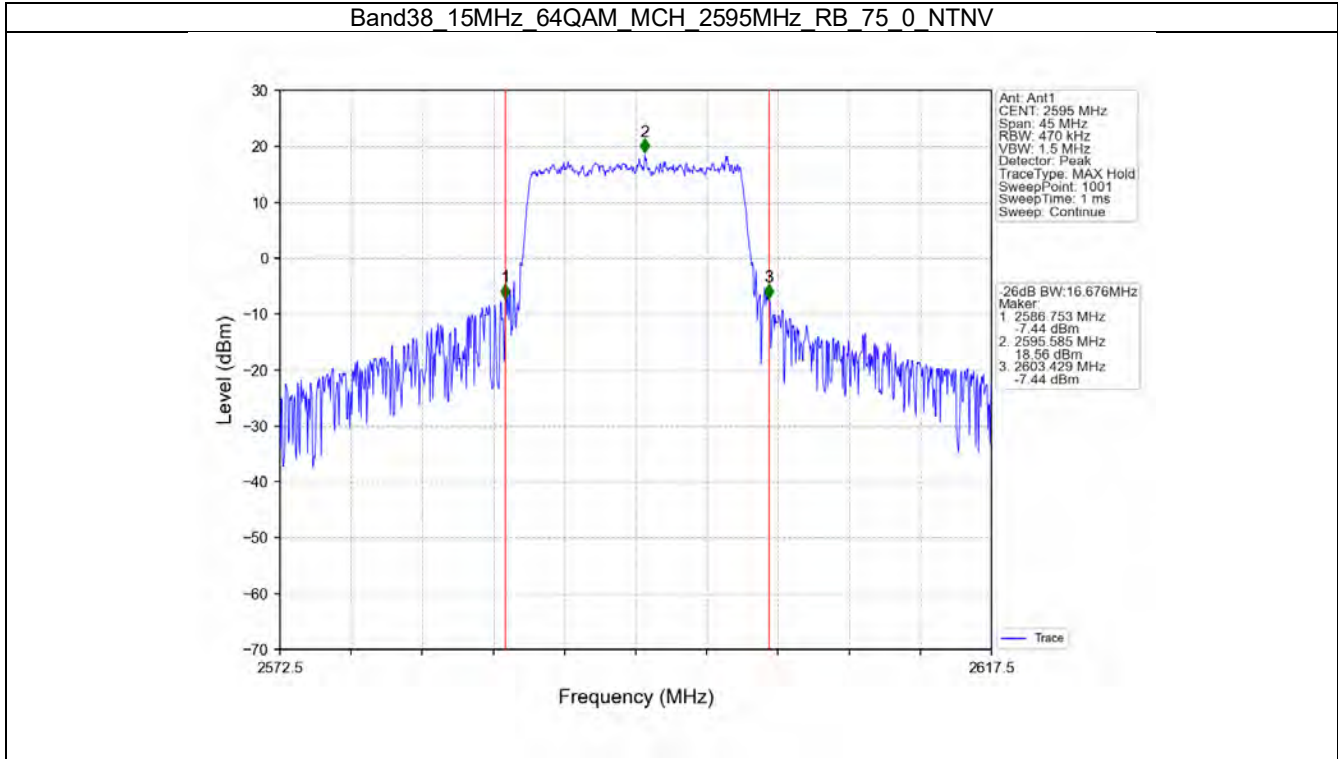
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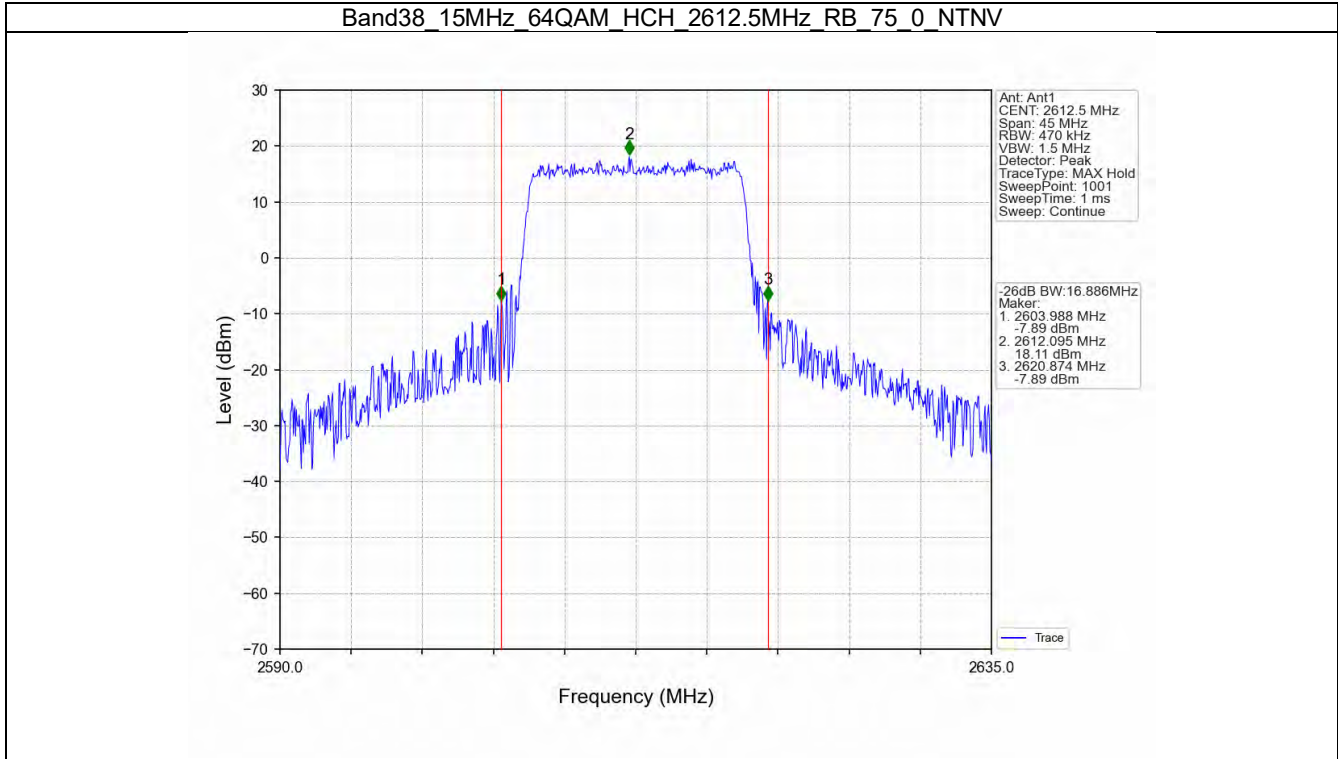
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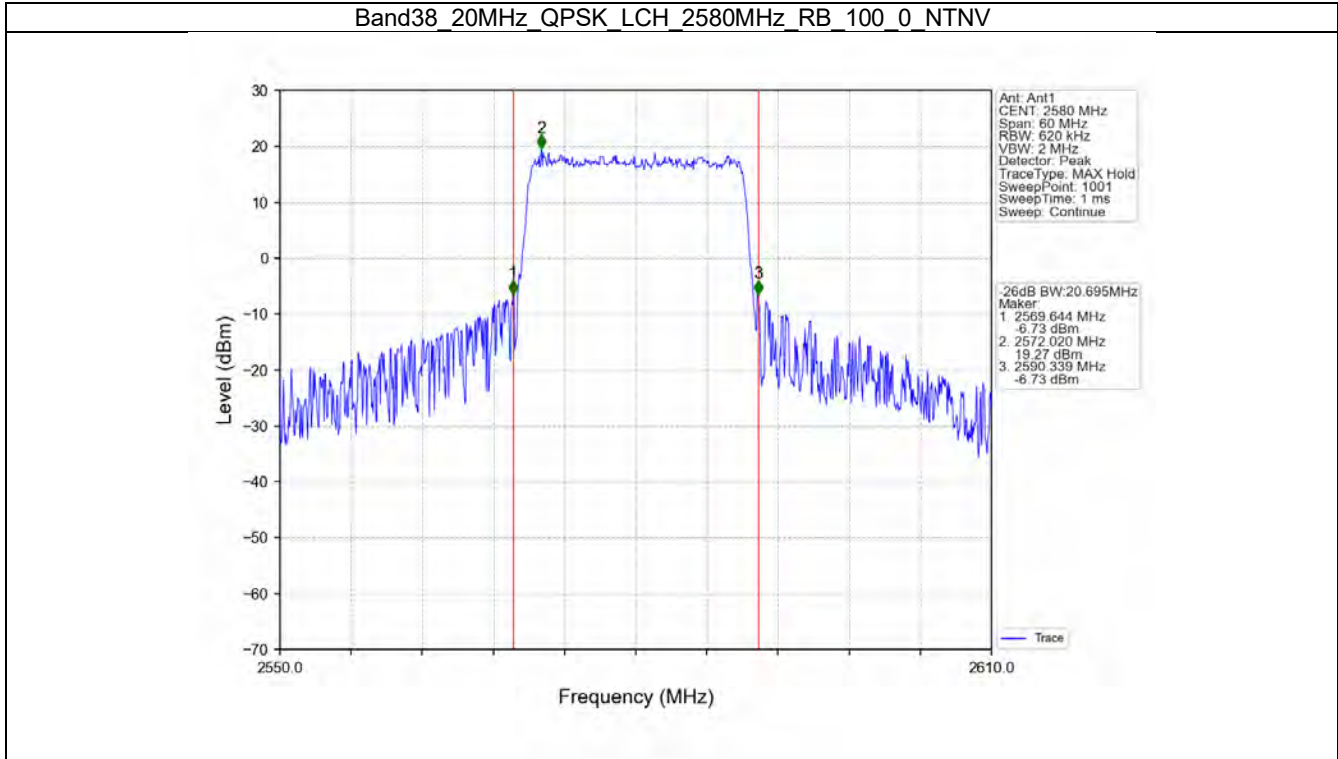
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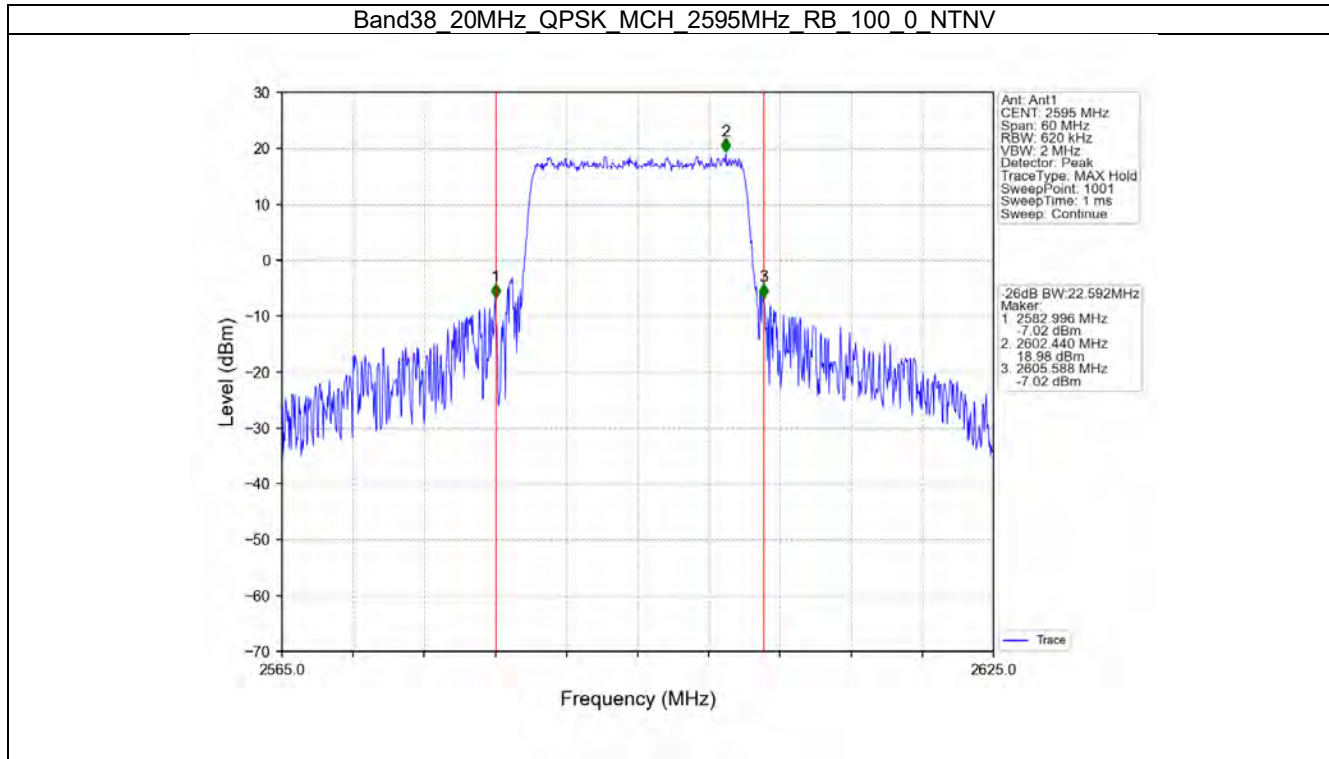


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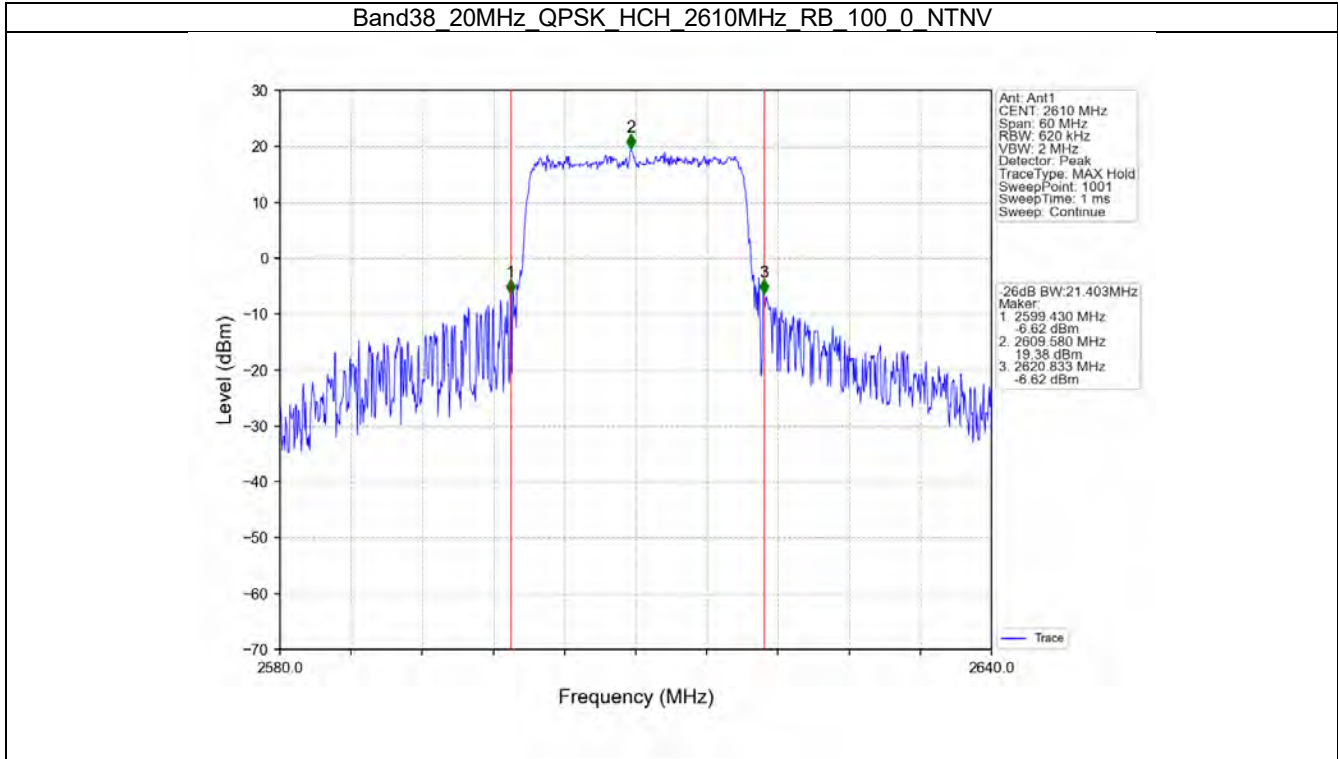
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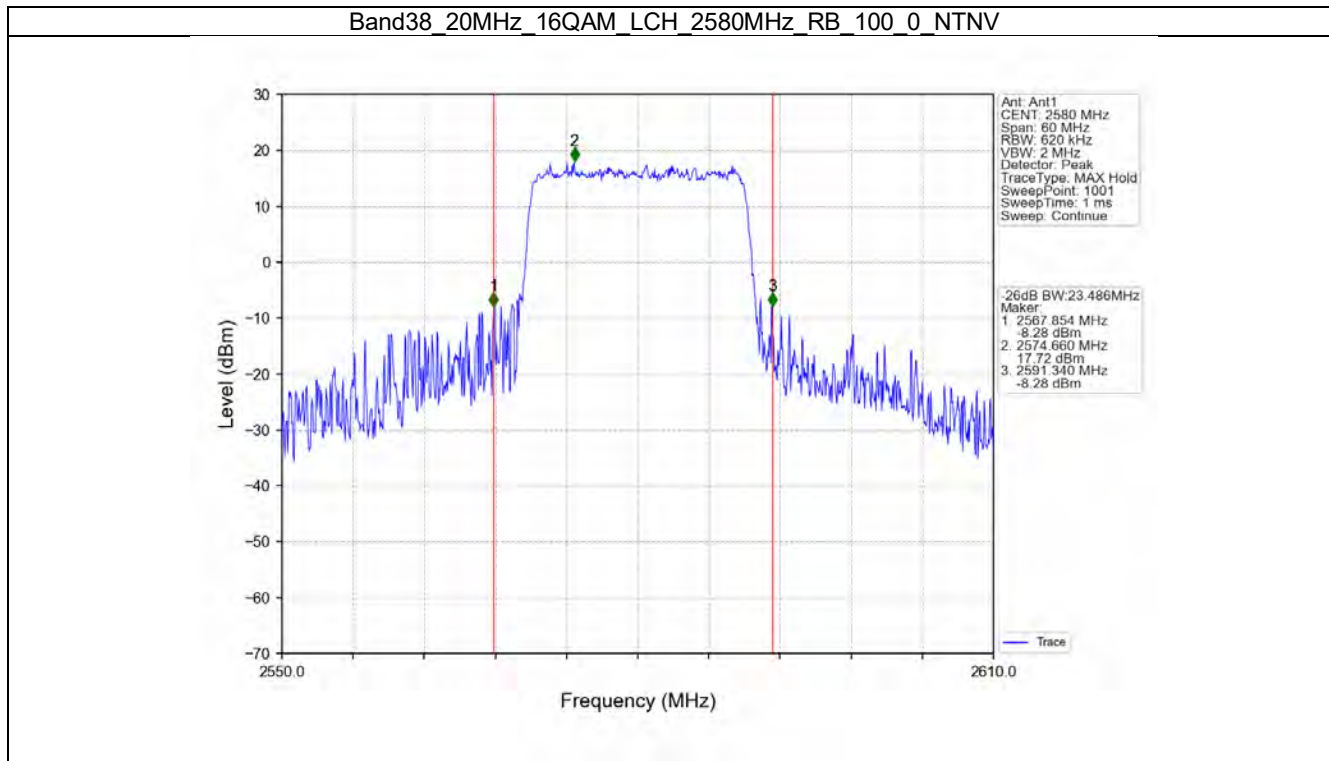


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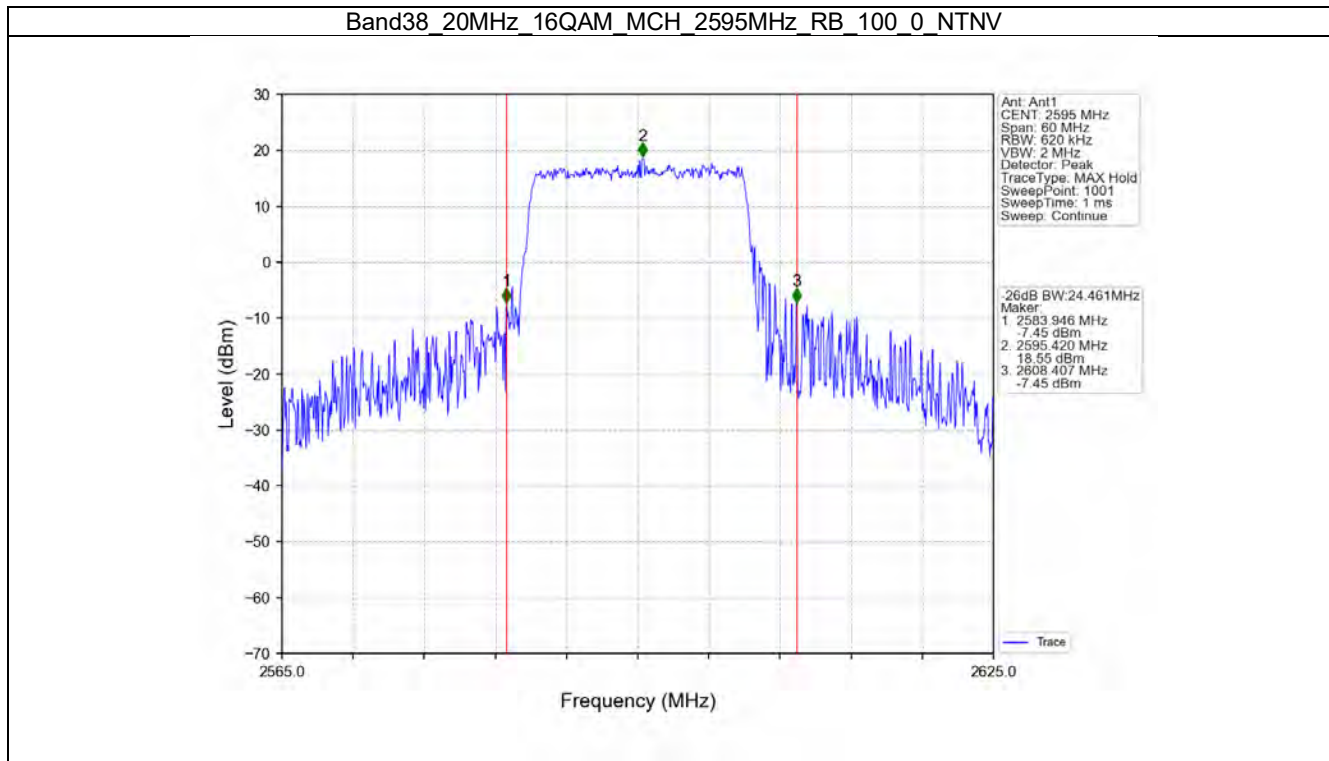


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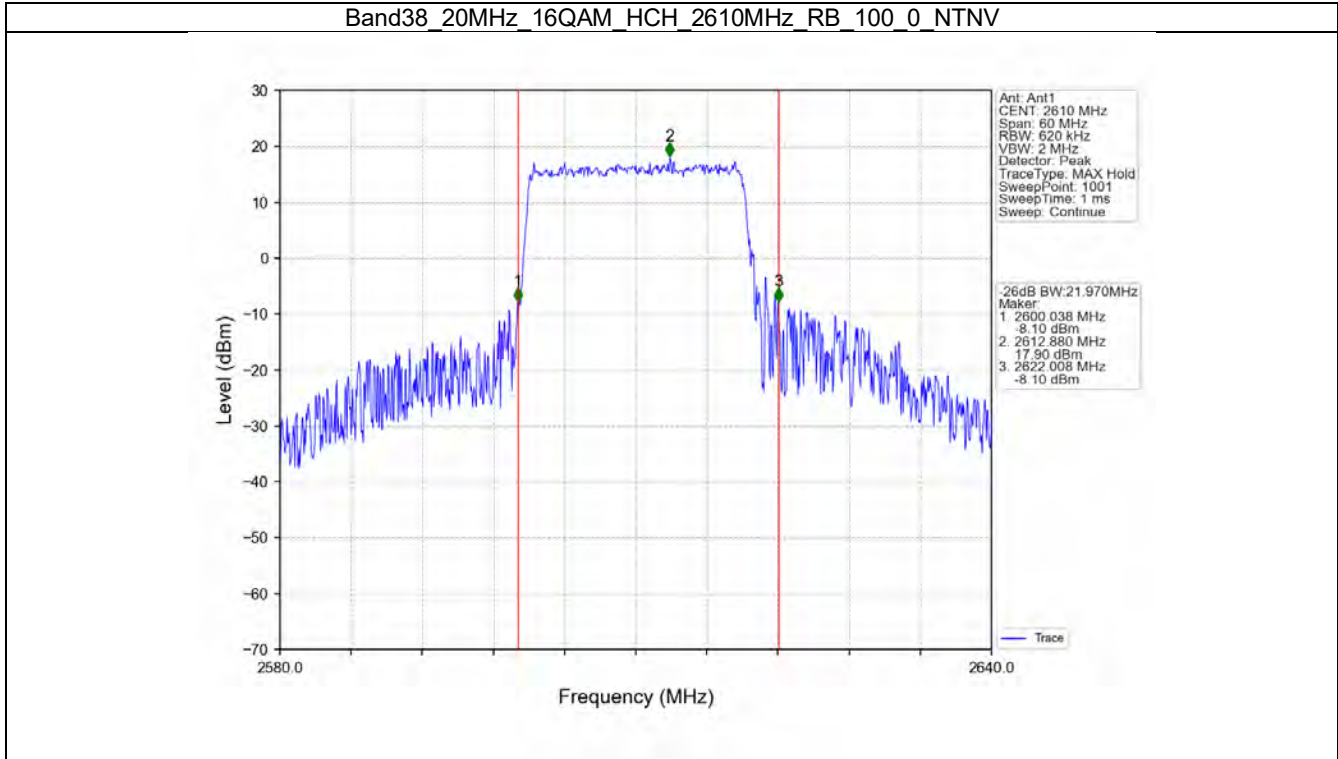
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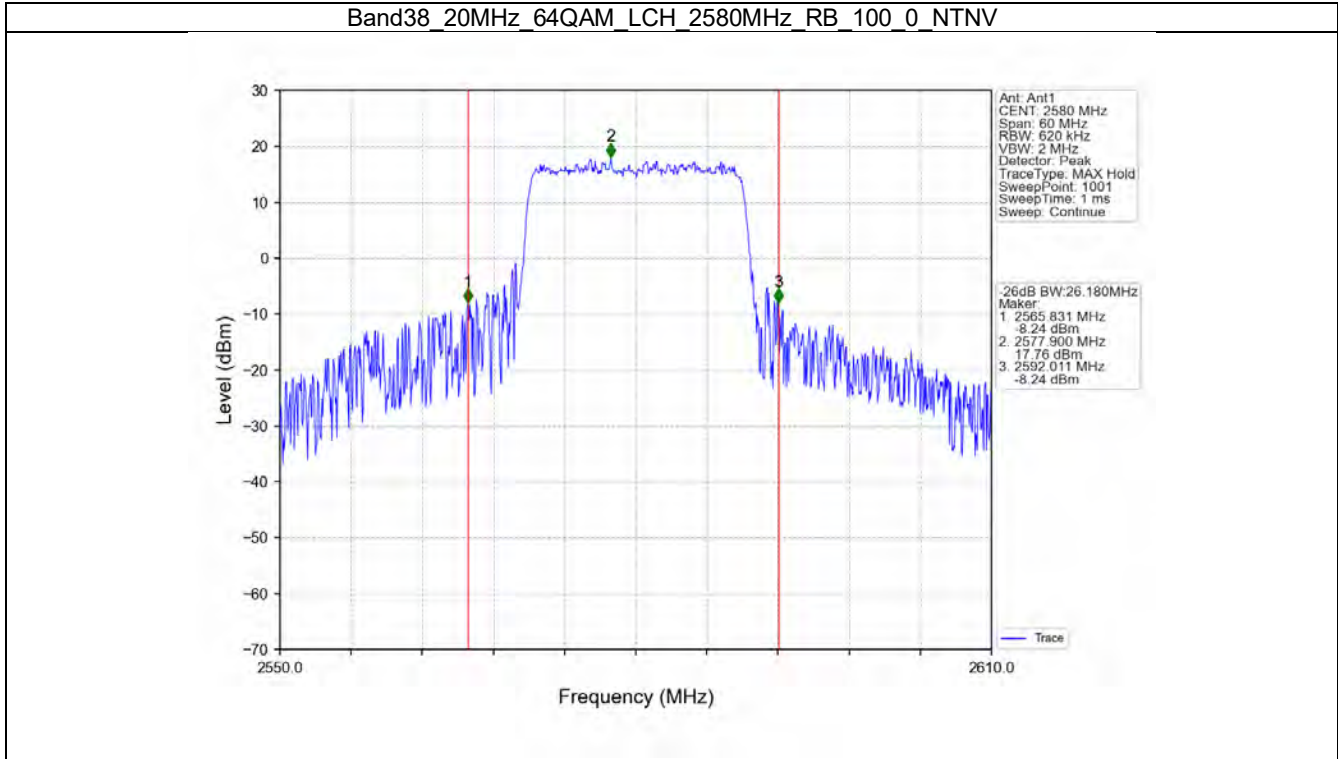
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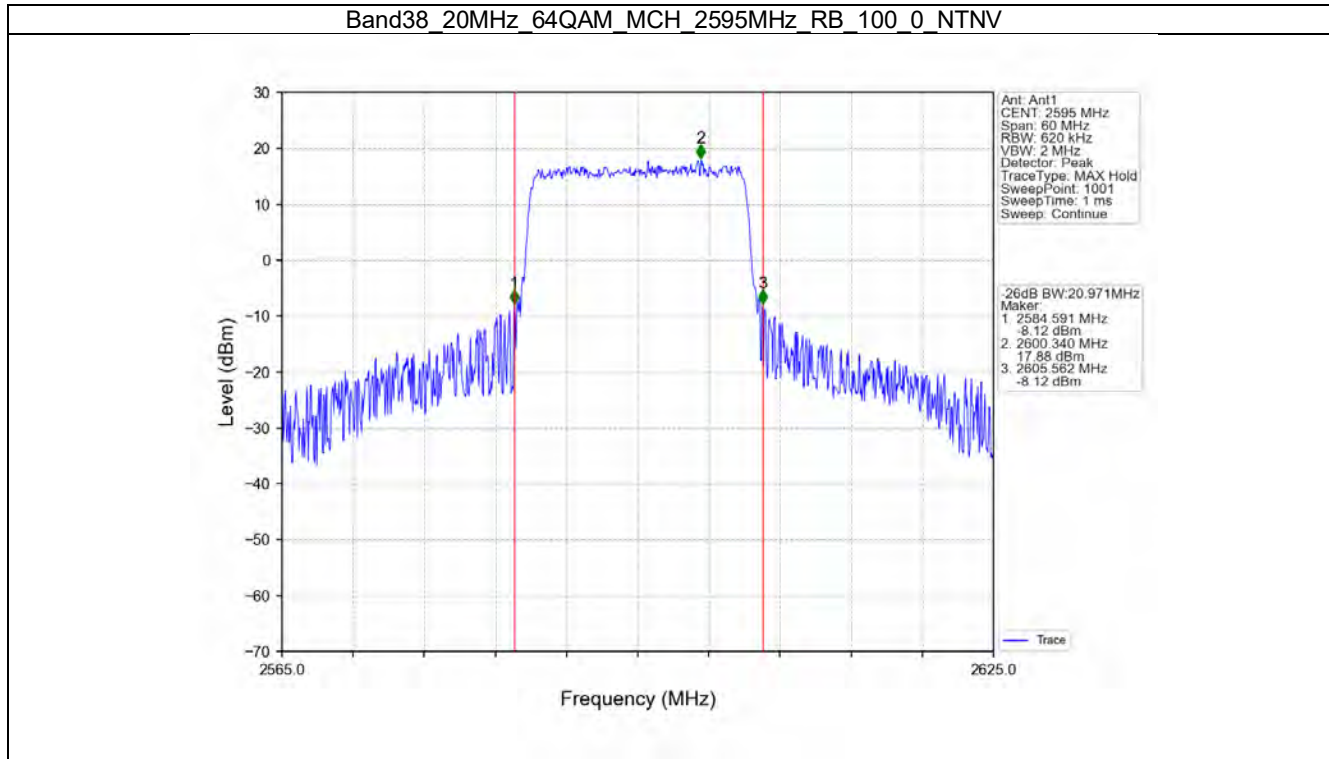


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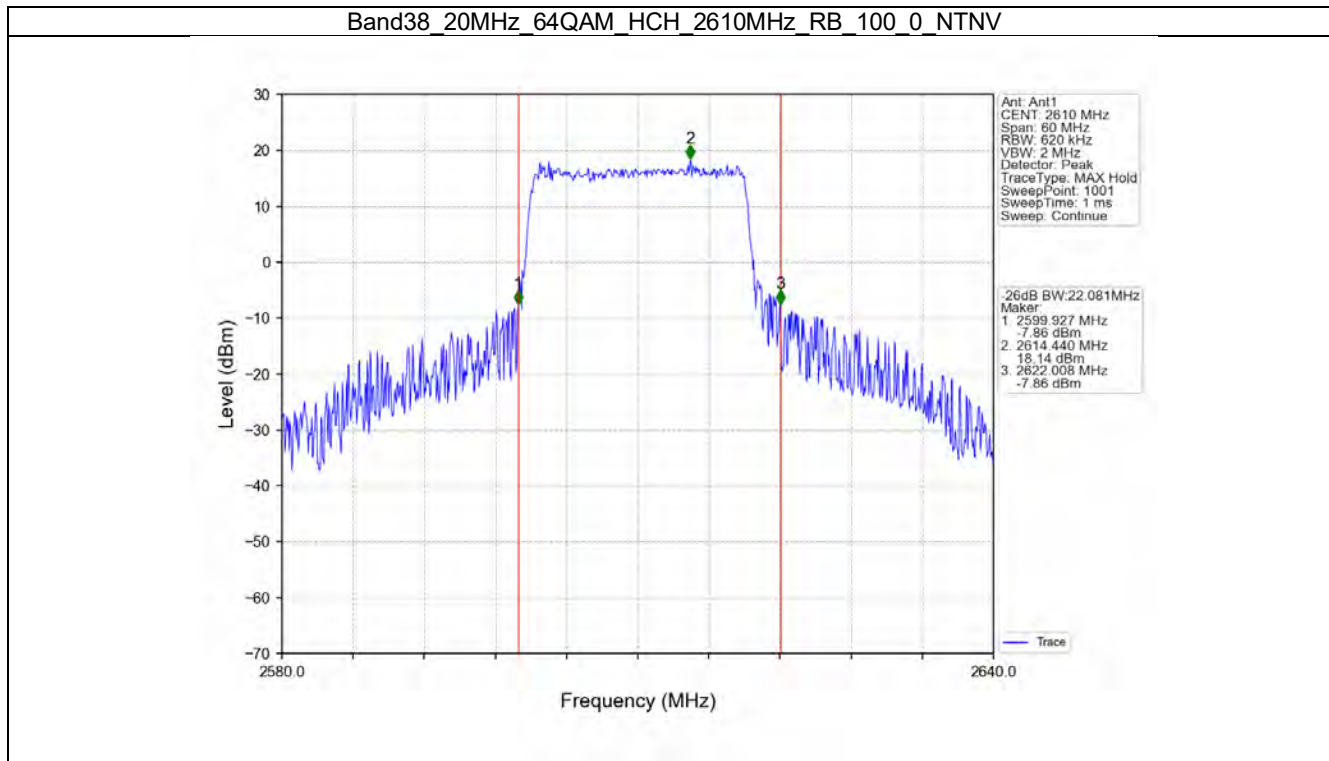


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4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.77	<=13	Pass
	2595	25	0	7.80	<=13	Pass
	2617.5	25	0	7.71	<=13	Pass
16QAM	2572.5	25	0	8.42	<=13	Pass
	2595	25	0	8.49	<=13	Pass
	2617.5	25	0	8.54	<=13	Pass
64QAM	2572.5	25	0	8.42	<=13	Pass
	2595	25	0	8.35	<=13	Pass
	2617.5	25	0	8.28	<=13	Pass



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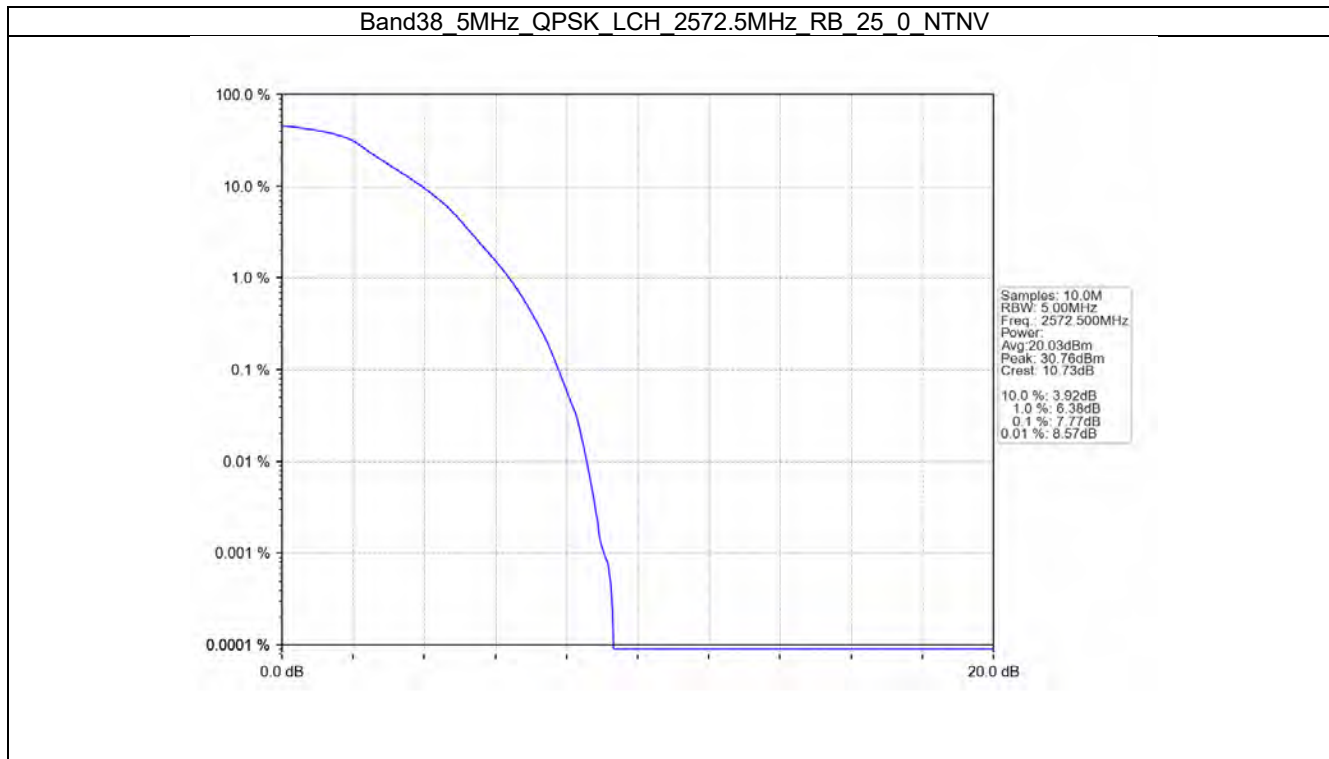
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4.1.2 Test Graph



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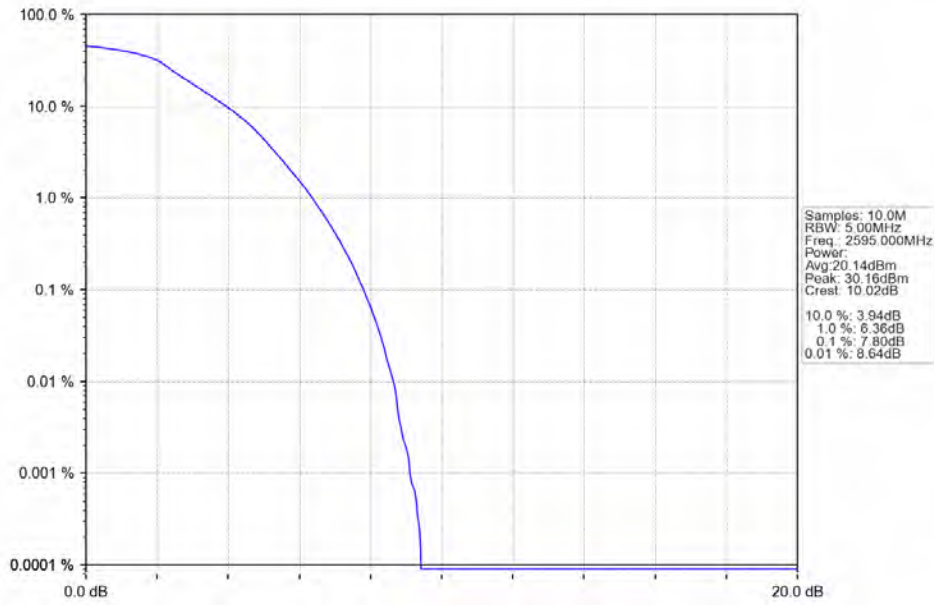
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Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



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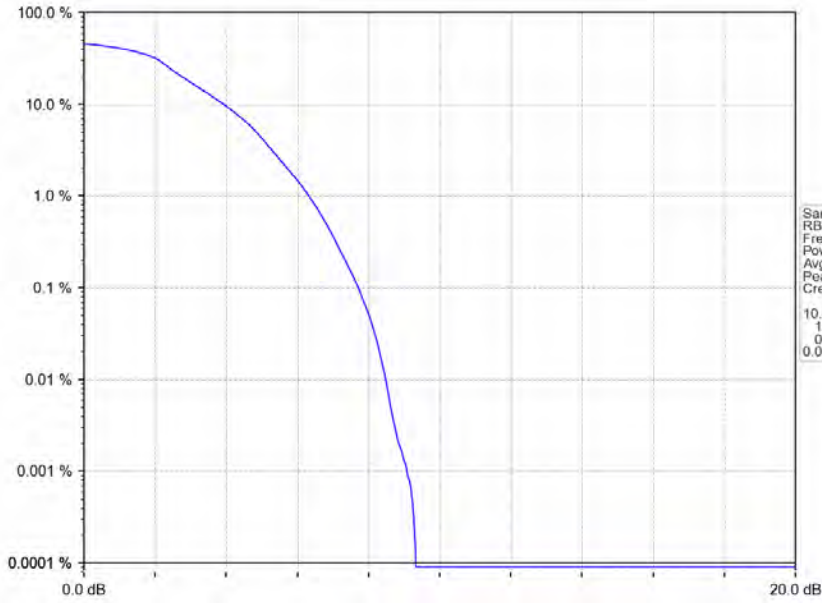
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 2617.500MHz
 Power:
 Avg: 20.11dBm
 Peak: 32.08dBm
 Crest: 11.97dB
 10.0 %: 3.92dB
 1.0 %: 6.32dB
 0.1 %: 7.71dB
 0.01 %: 8.48dB



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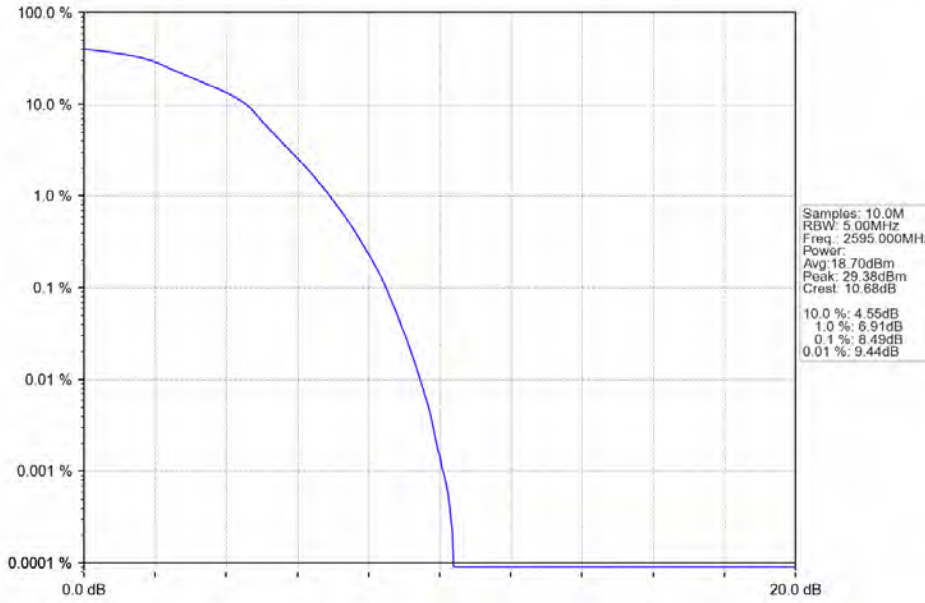
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Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



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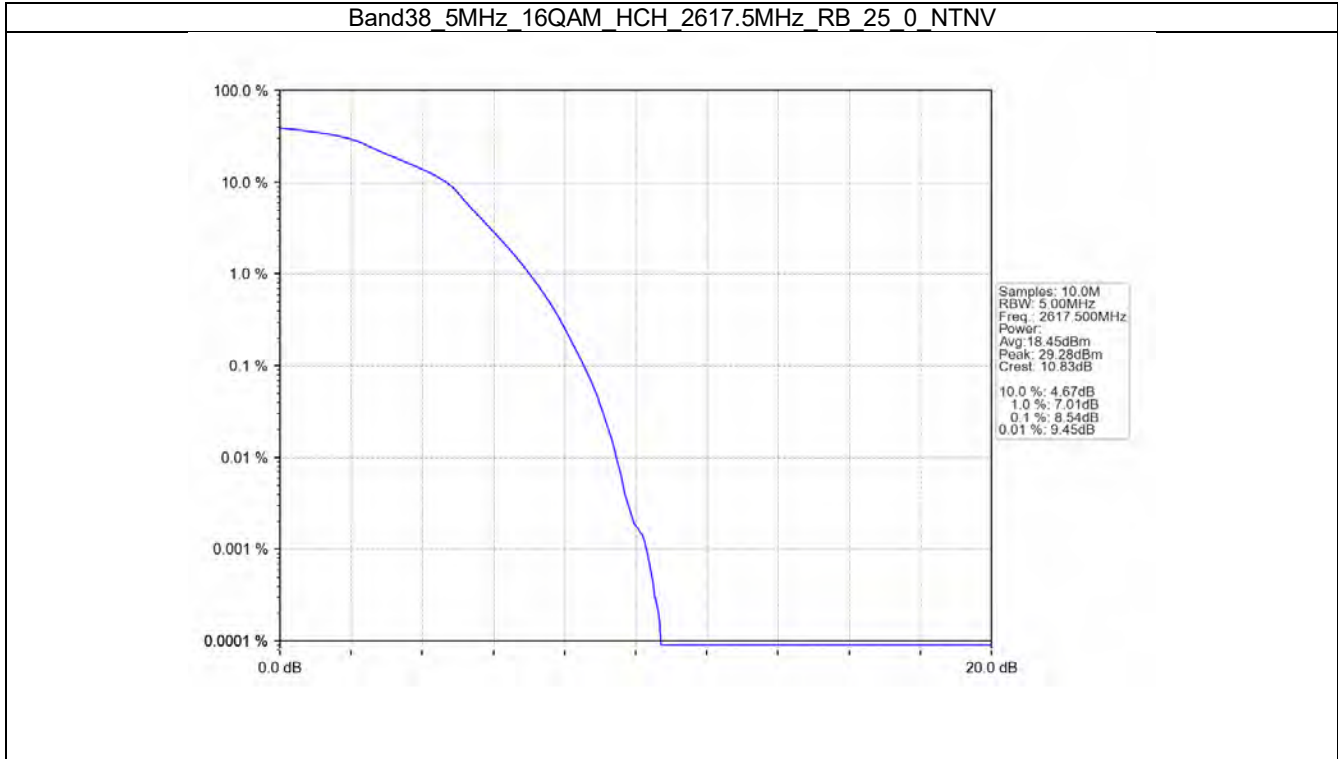
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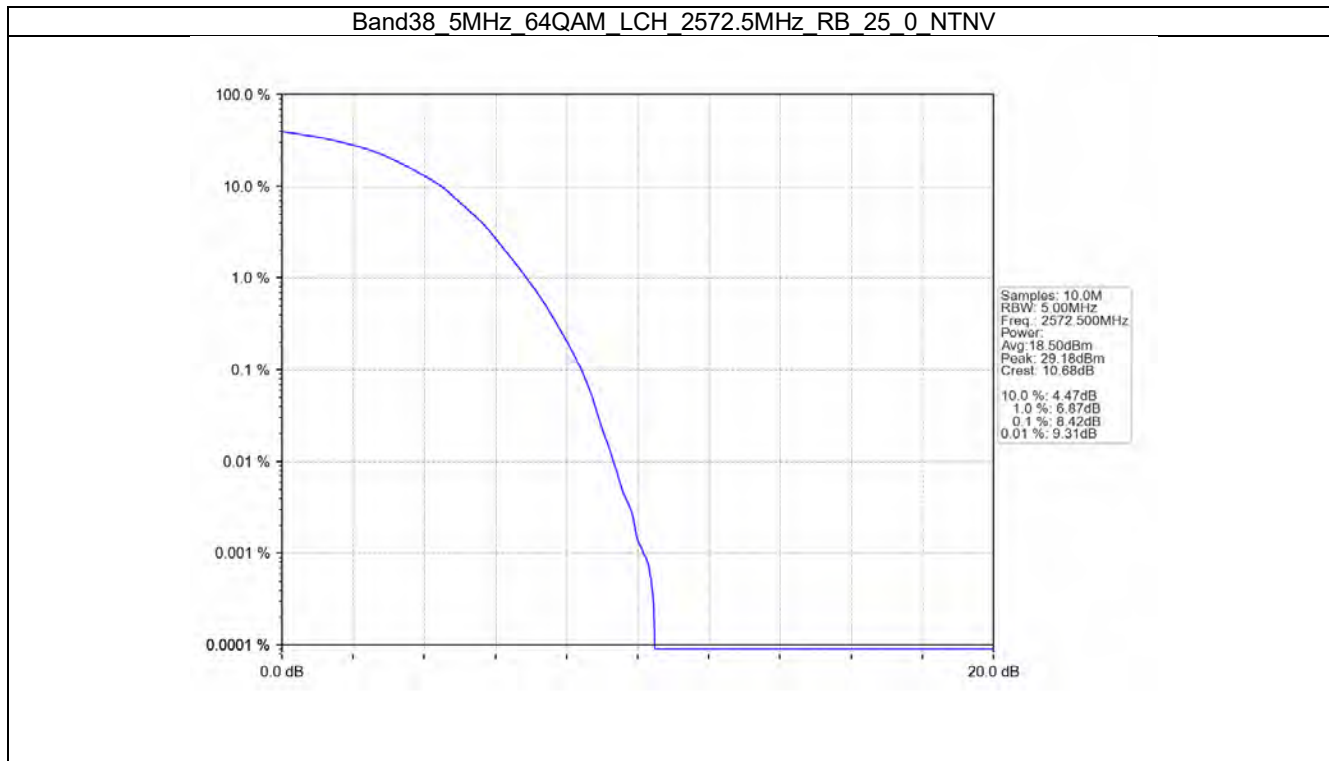
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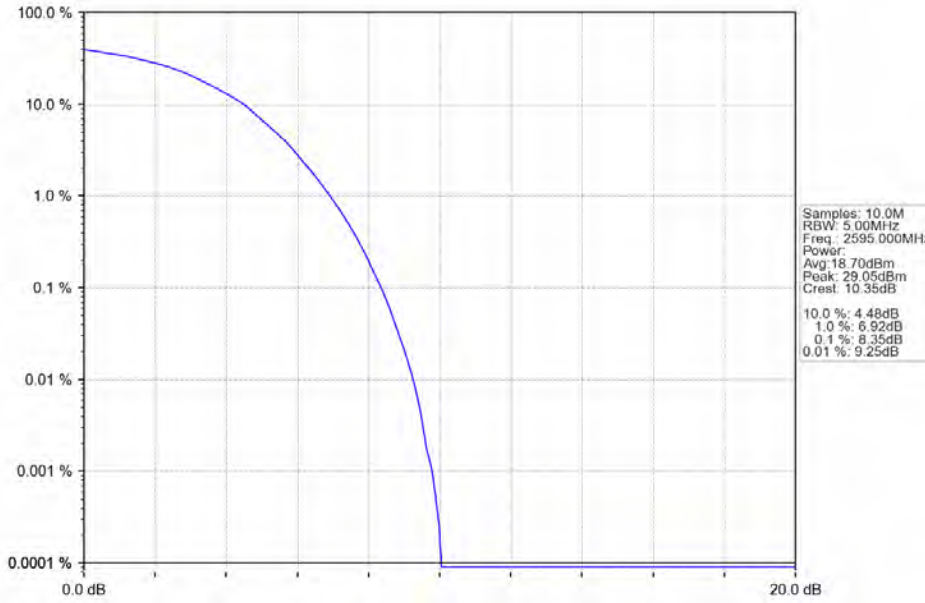
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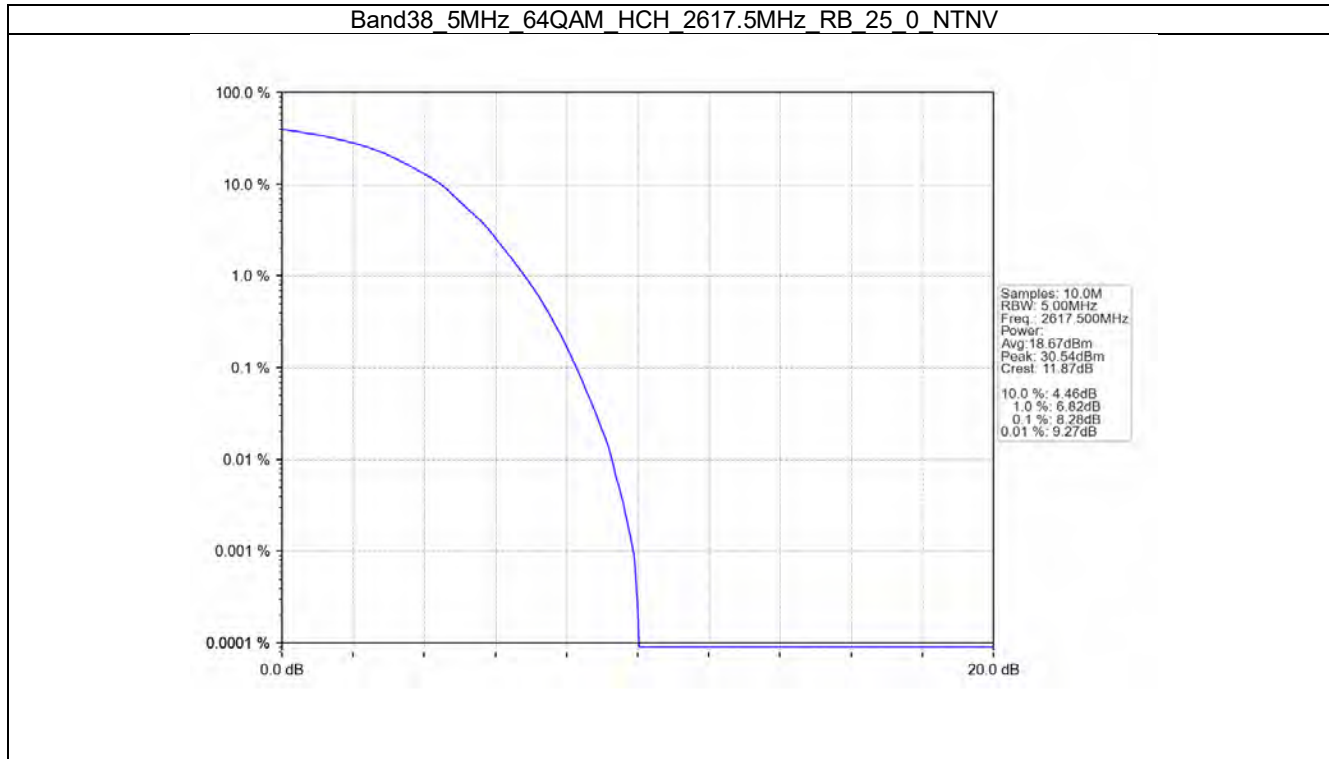


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4.2 B38_10MHz

4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.60	<=13	Pass
	2595	50	0	7.61	<=13	Pass
	2615	50	0	7.60	<=13	Pass
16QAM	2575	50	0	8.55	<=13	Pass
	2595	50	0	8.55	<=13	Pass
	2615	50	0	8.52	<=13	Pass
64QAM	2575	50	0	8.37	<=13	Pass
	2595	50	0	8.31	<=13	Pass
	2615	50	0	8.27	<=13	Pass



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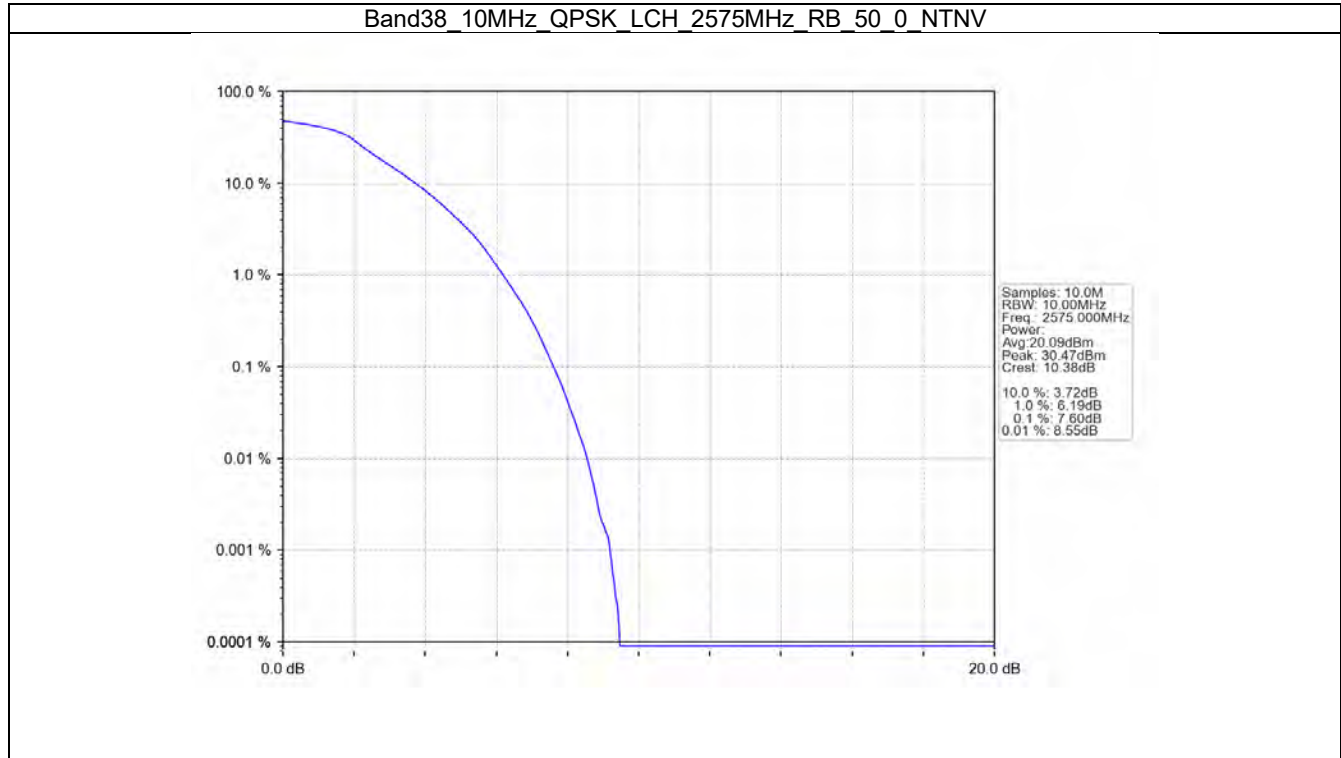
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4.2.2 Test Graph



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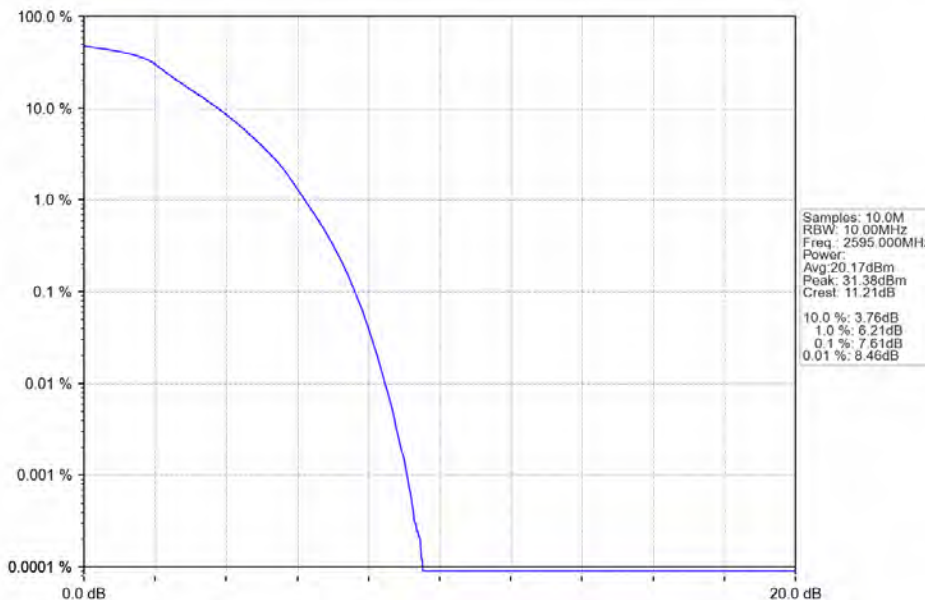
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Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



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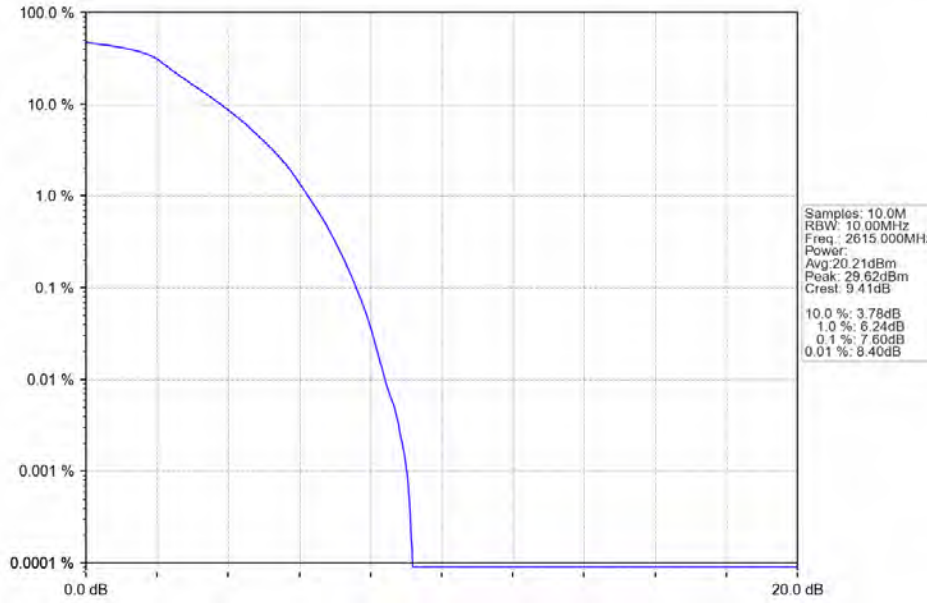
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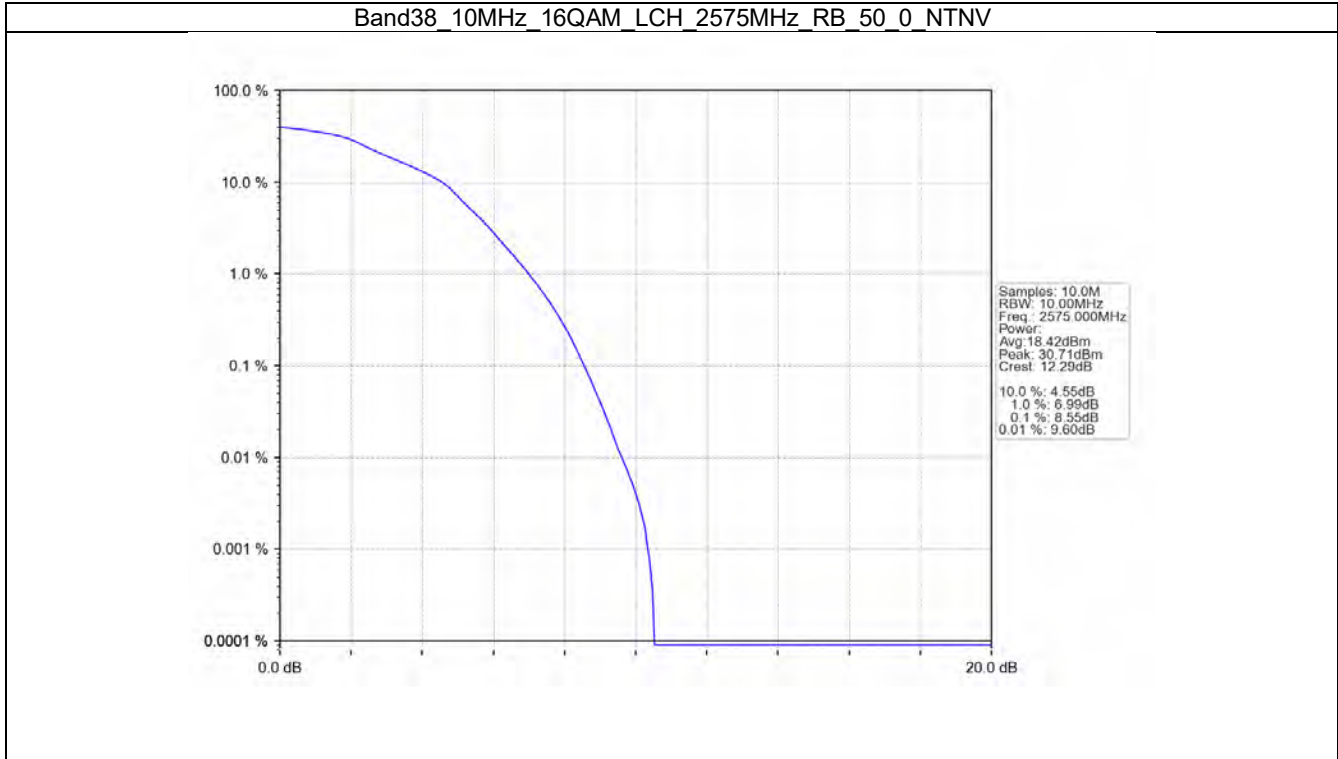
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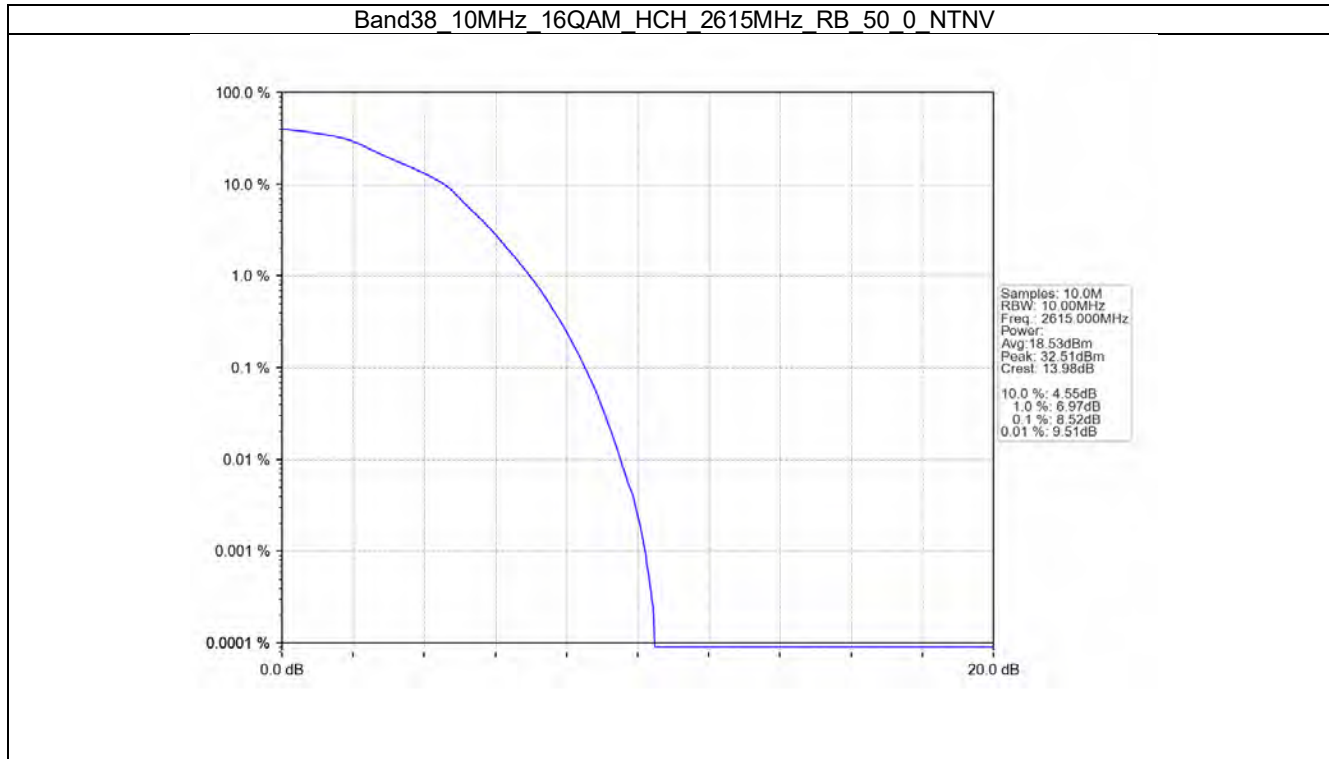


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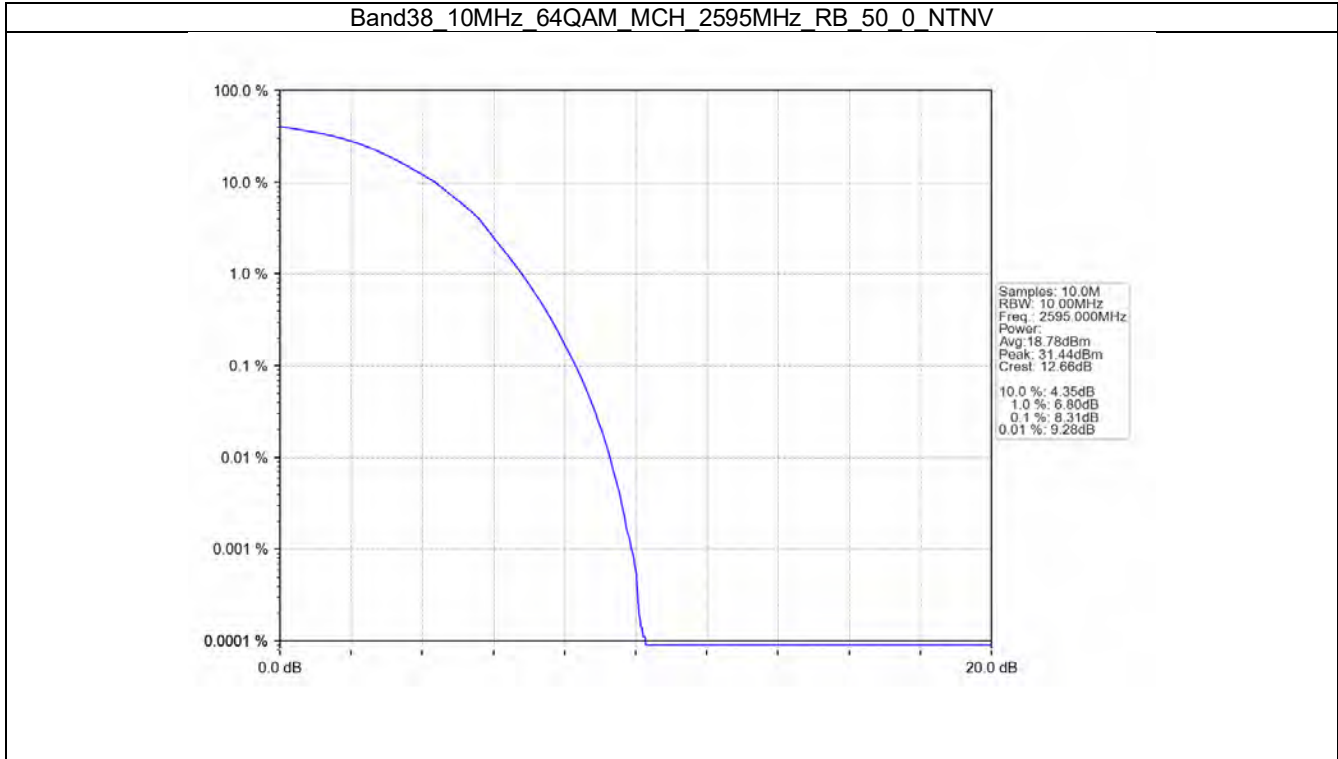
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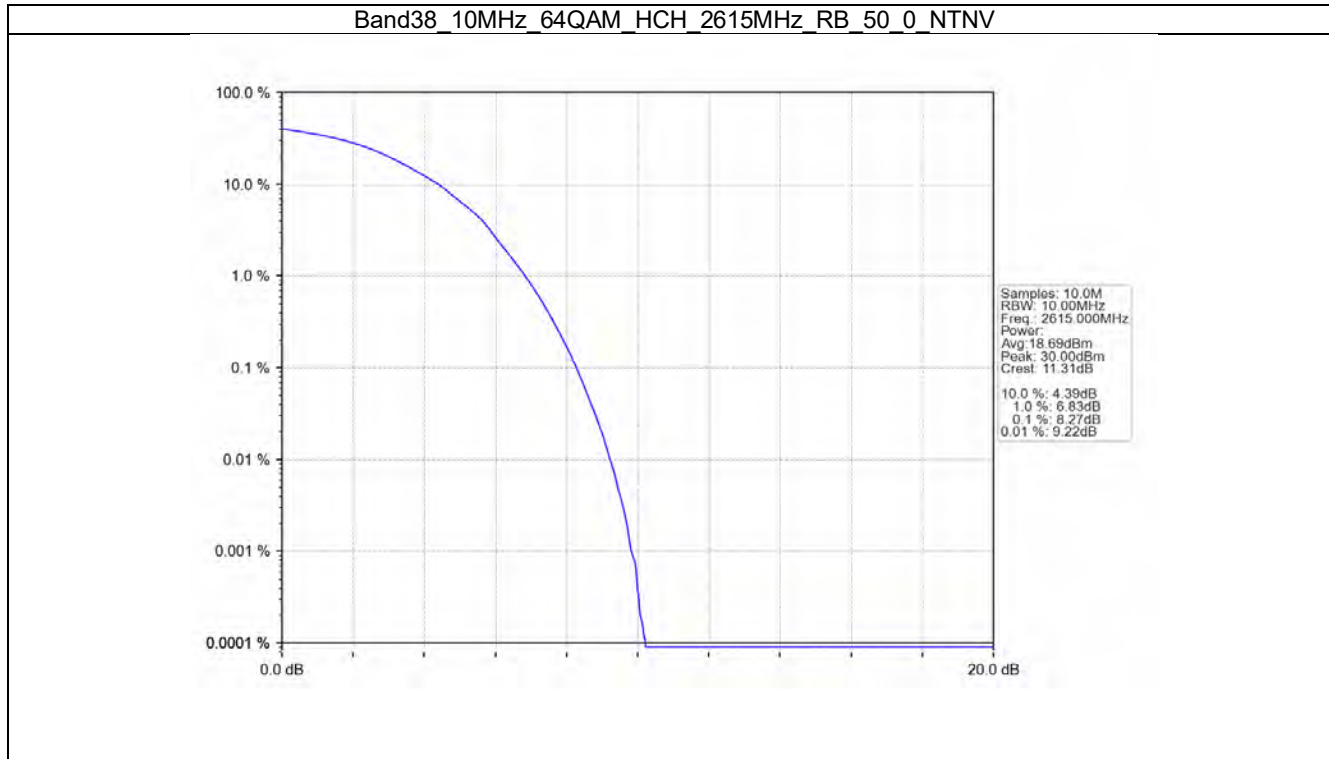


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4.3 B38_15MHz

4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	8.11	<=13	Pass
	2595	75	0	7.88	<=13	Pass
	2612.5	75	0	8.06	<=13	Pass
16QAM	2577.5	75	0	8.61	<=13	Pass
	2595	75	0	8.60	<=13	Pass
	2612.5	75	0	8.52	<=13	Pass
64QAM	2577.5	75	0	8.53	<=13	Pass
	2595	75	0	8.42	<=13	Pass
	2612.5	75	0	8.50	<=13	Pass



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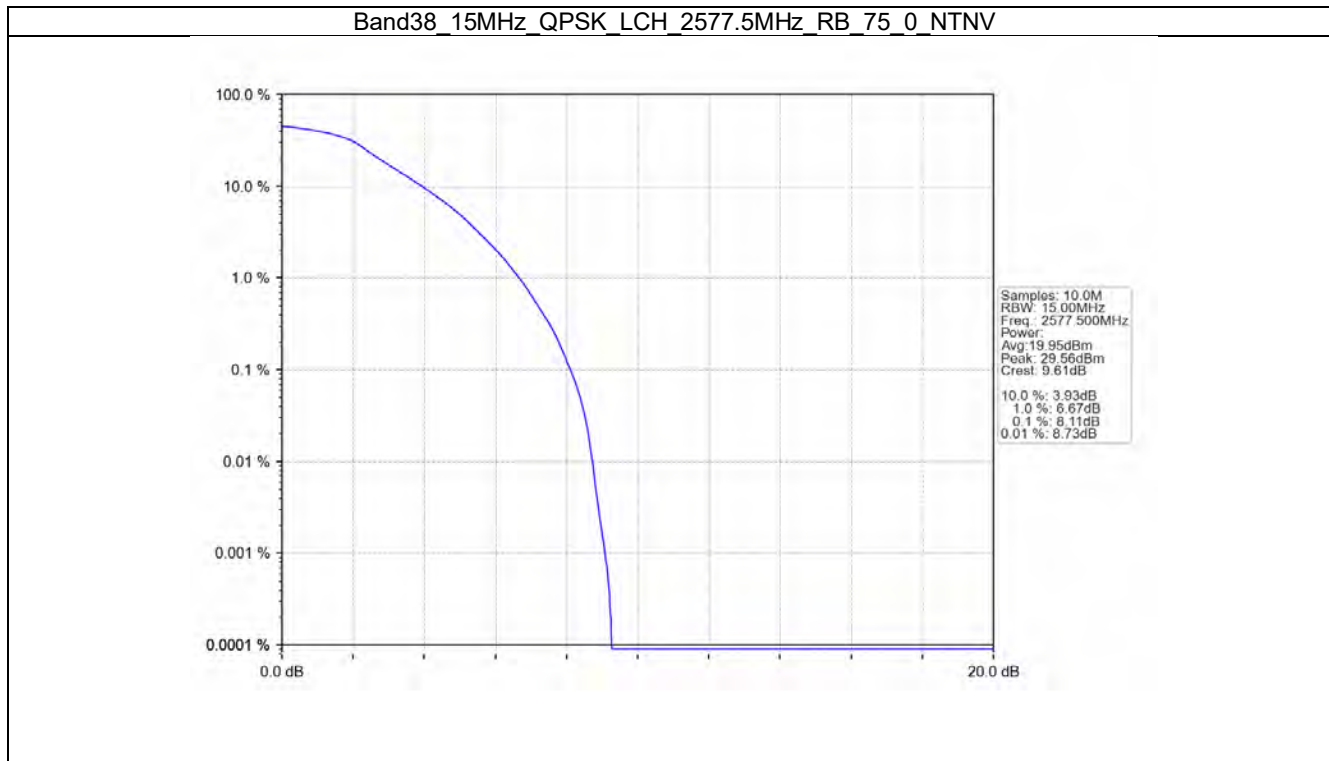
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4.3.2 Test Graph



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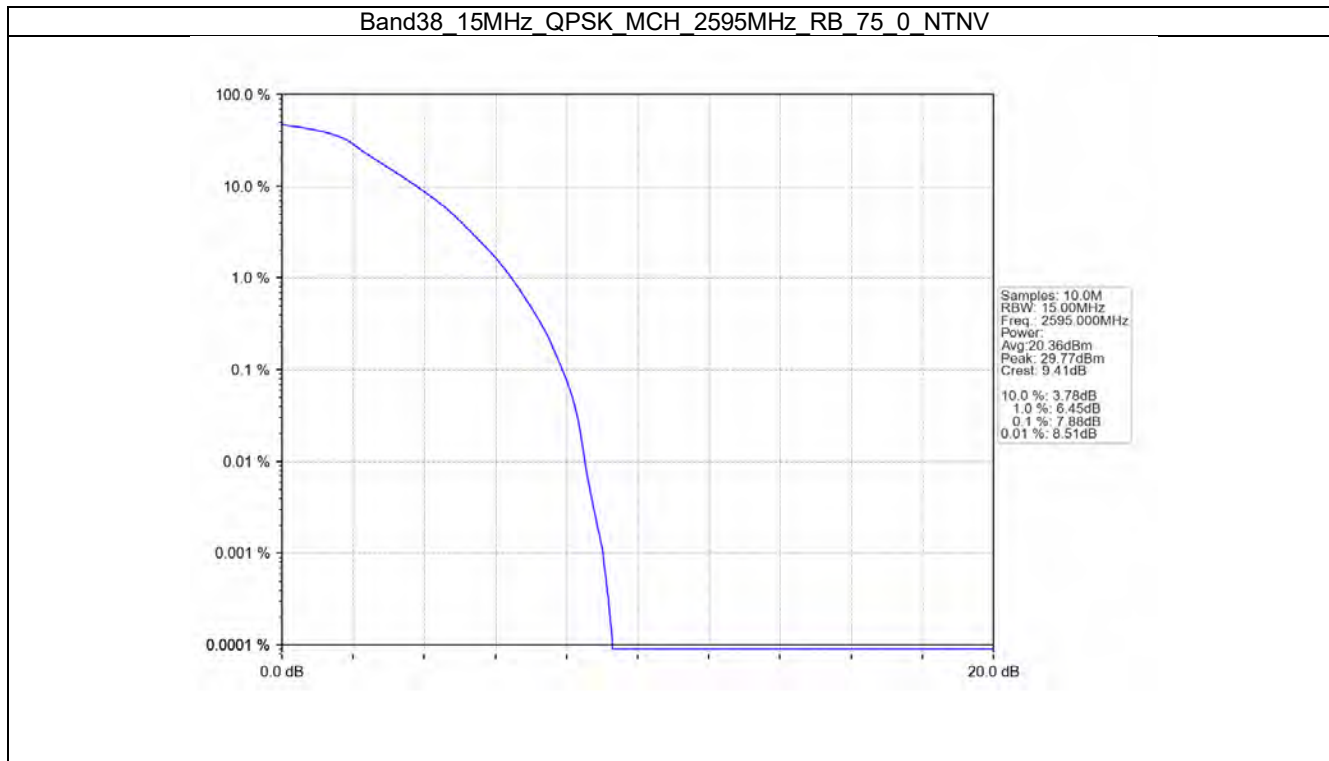


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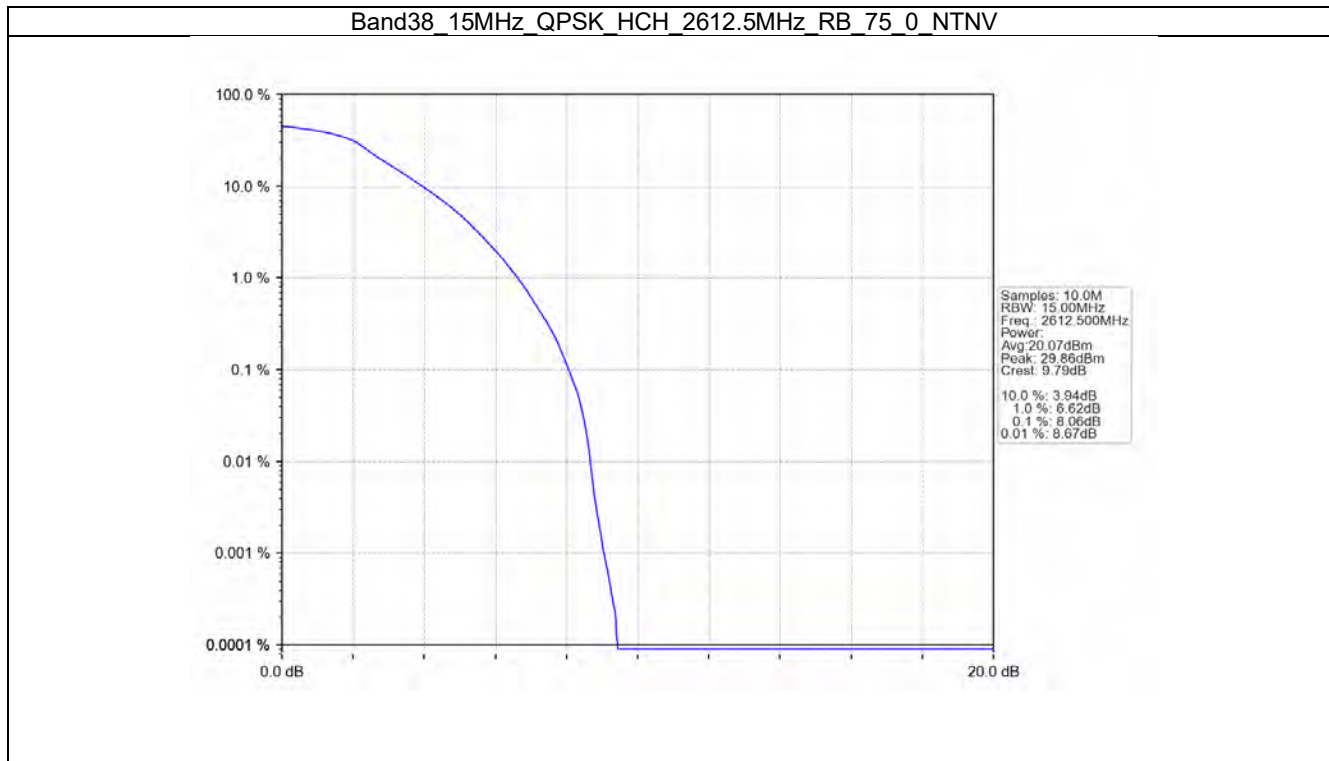


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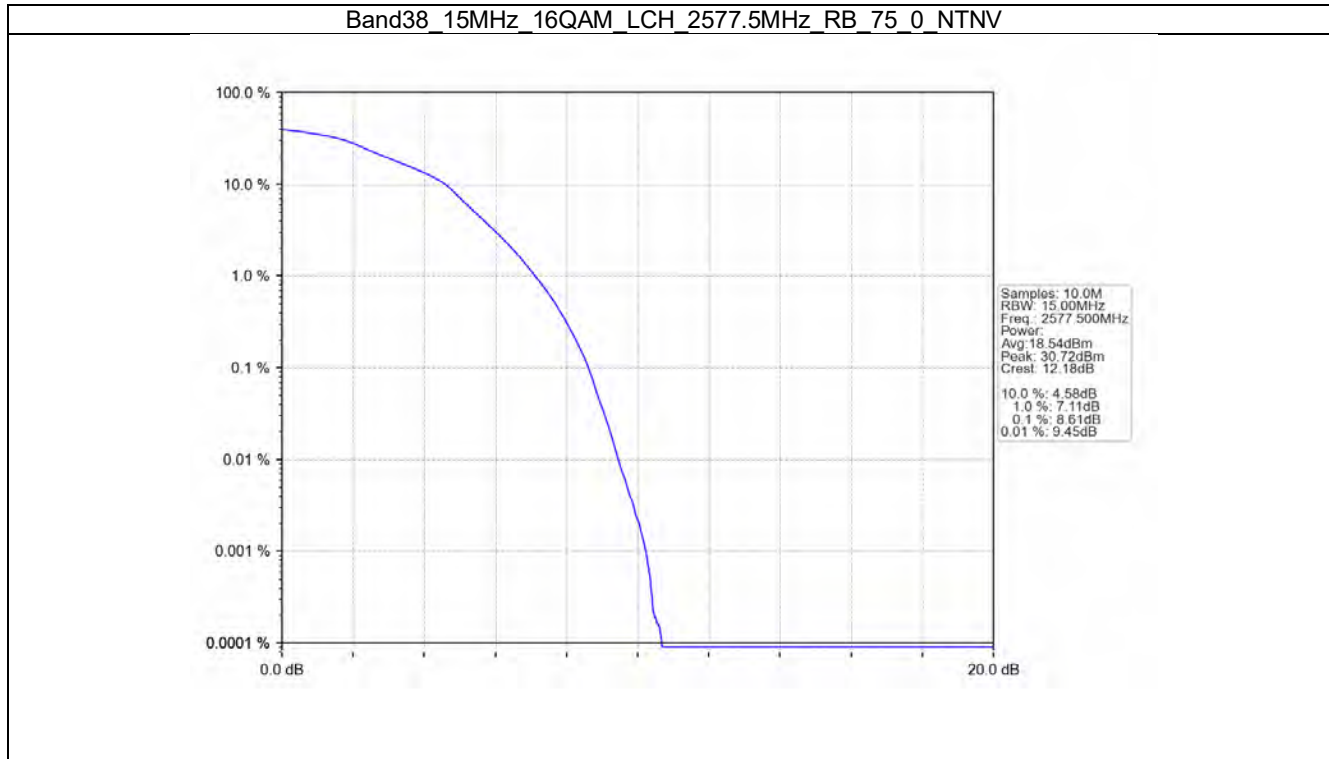
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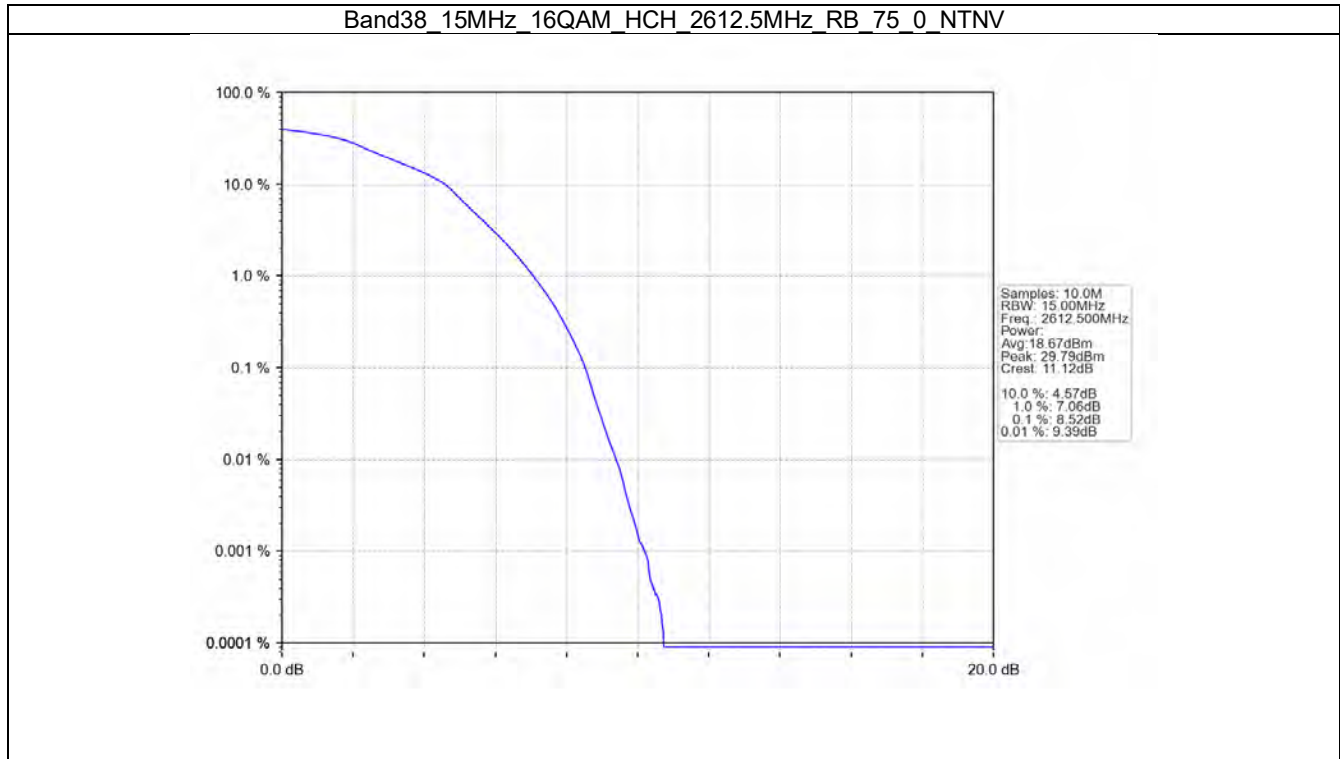
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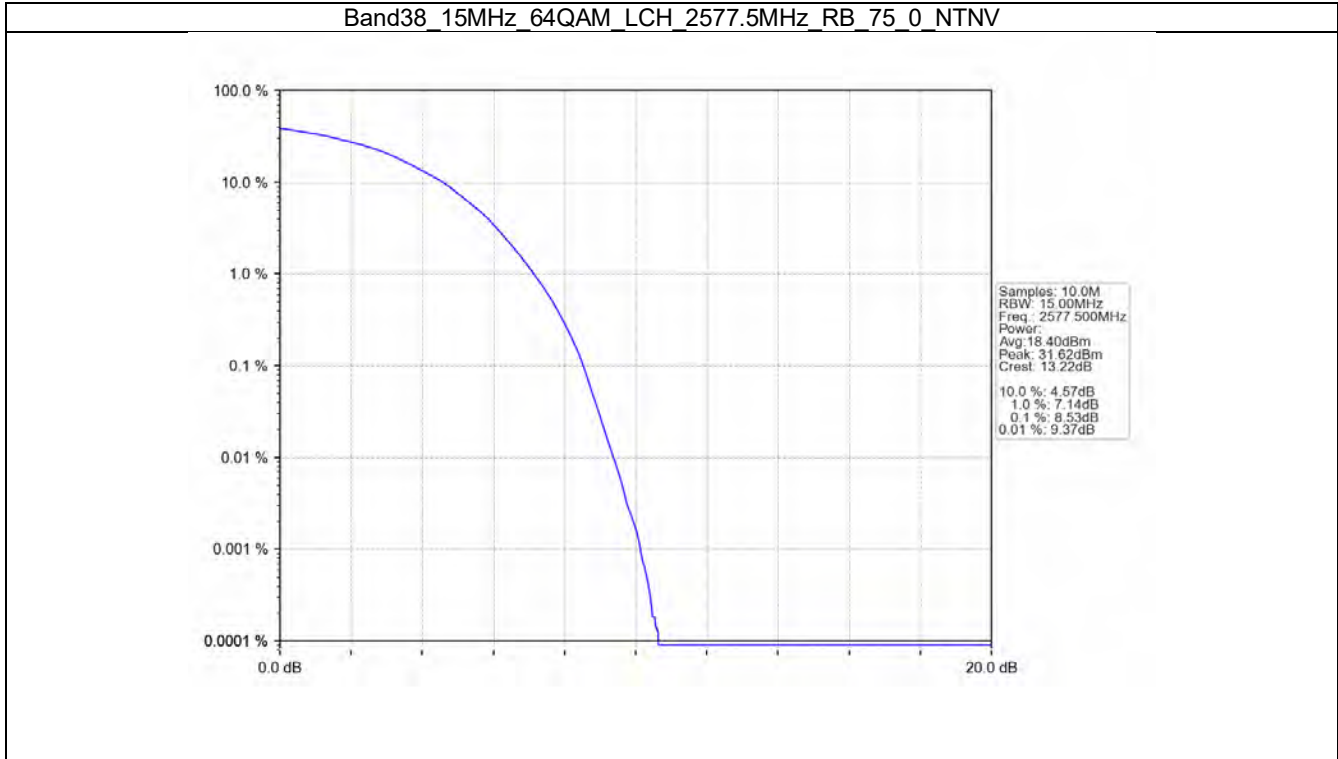
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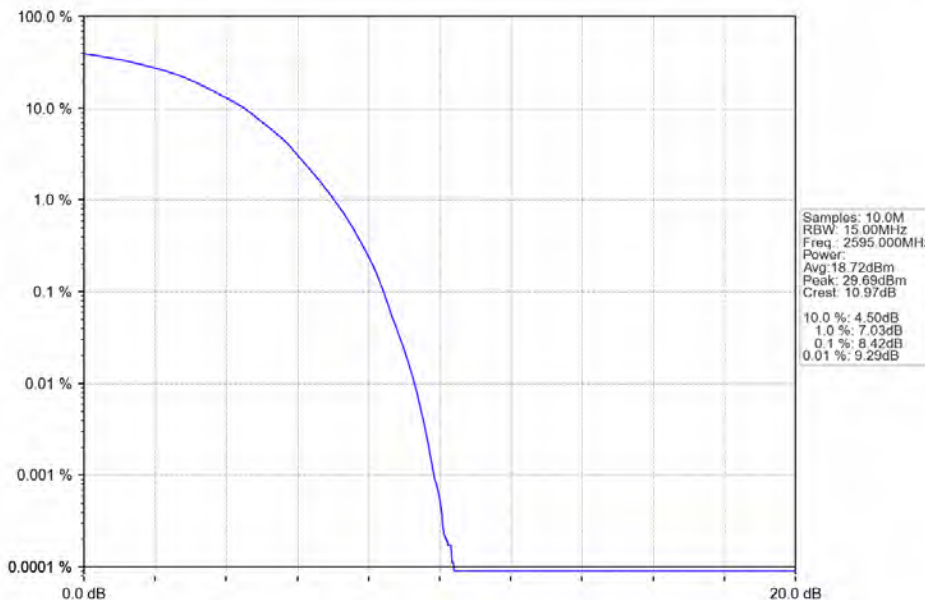
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Band38_15MHz_64QAM_MCH_2595MHz_RB_75_0_NTNV



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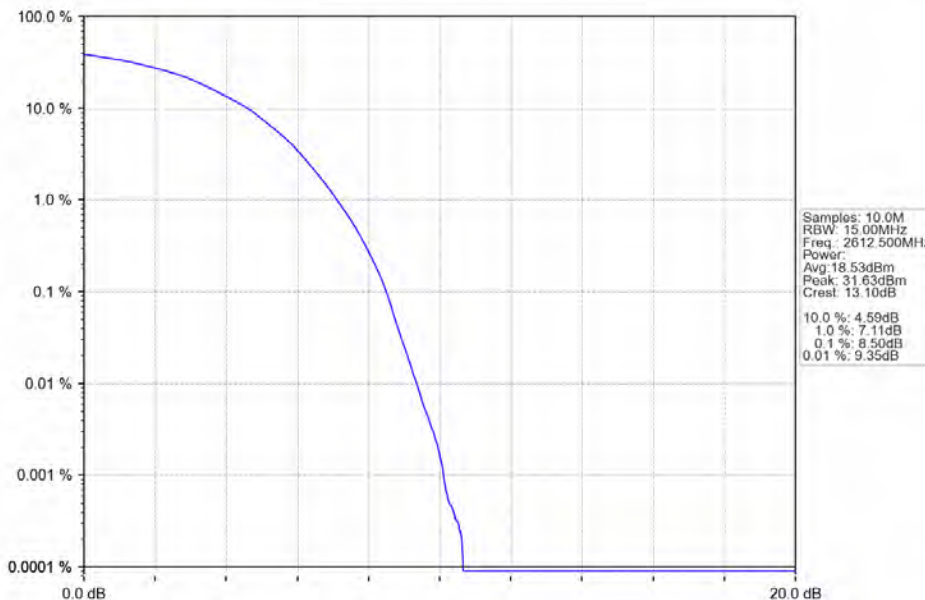
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Band38_15MHz_64QAM_HCH_2612.5MHz_RB_75_0_NTNV



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4.4 B38_20MHz

4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.74	<=13	Pass
	2595	100	0	7.85	<=13	Pass
	2610	100	0	7.78	<=13	Pass
16QAM	2580	100	0	8.55	<=13	Pass
	2595	100	0	8.24	<=13	Pass
	2610	100	0	8.39	<=13	Pass
64QAM	2580	100	0	8.29	<=13	Pass
	2595	100	0	8.51	<=13	Pass
	2610	100	0	8.41	<=13	Pass



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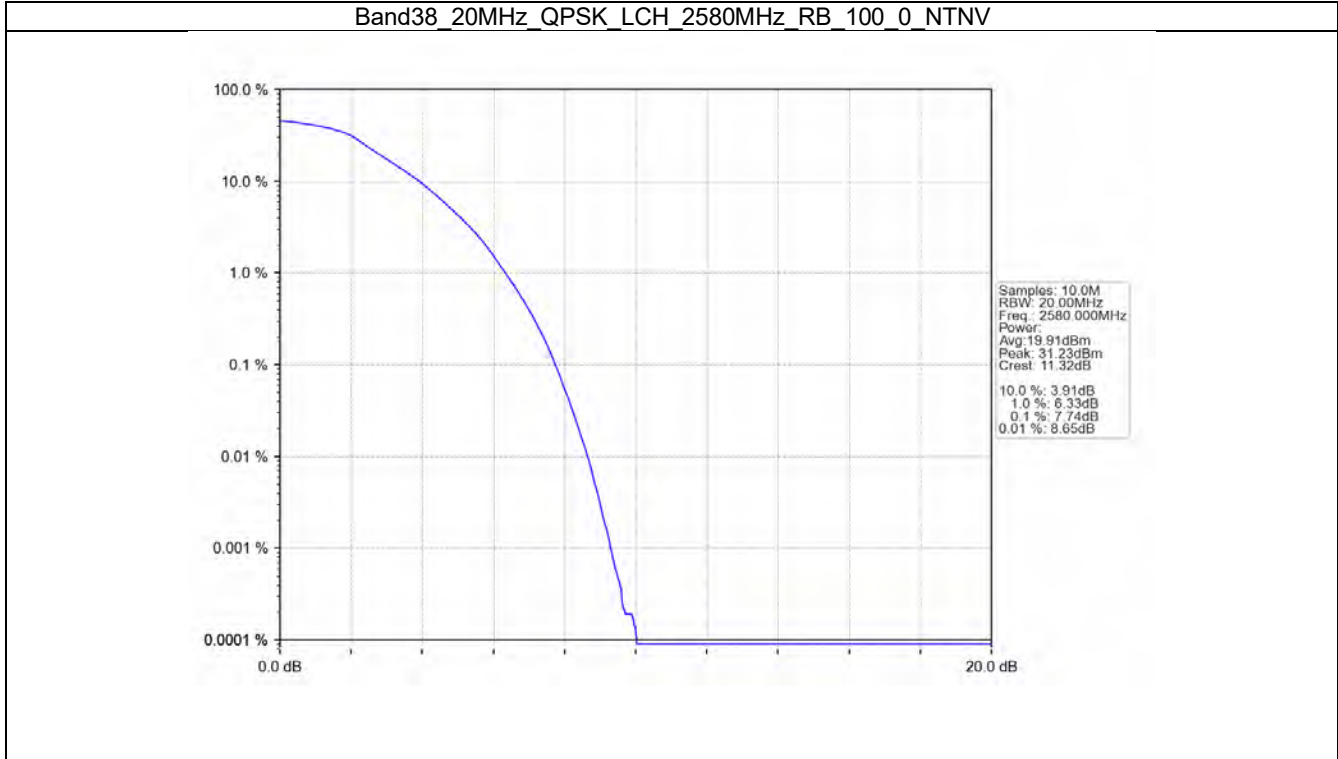
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4.4.2 Test Graph



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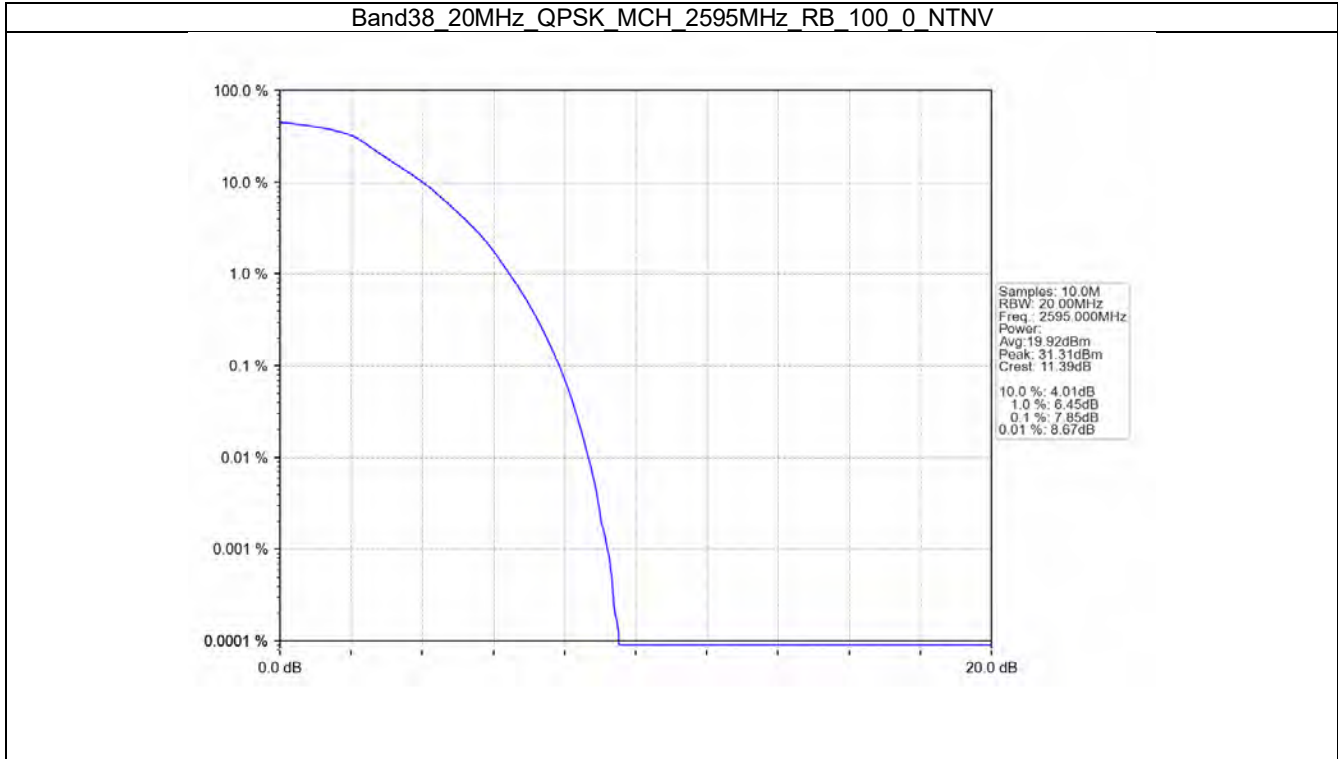
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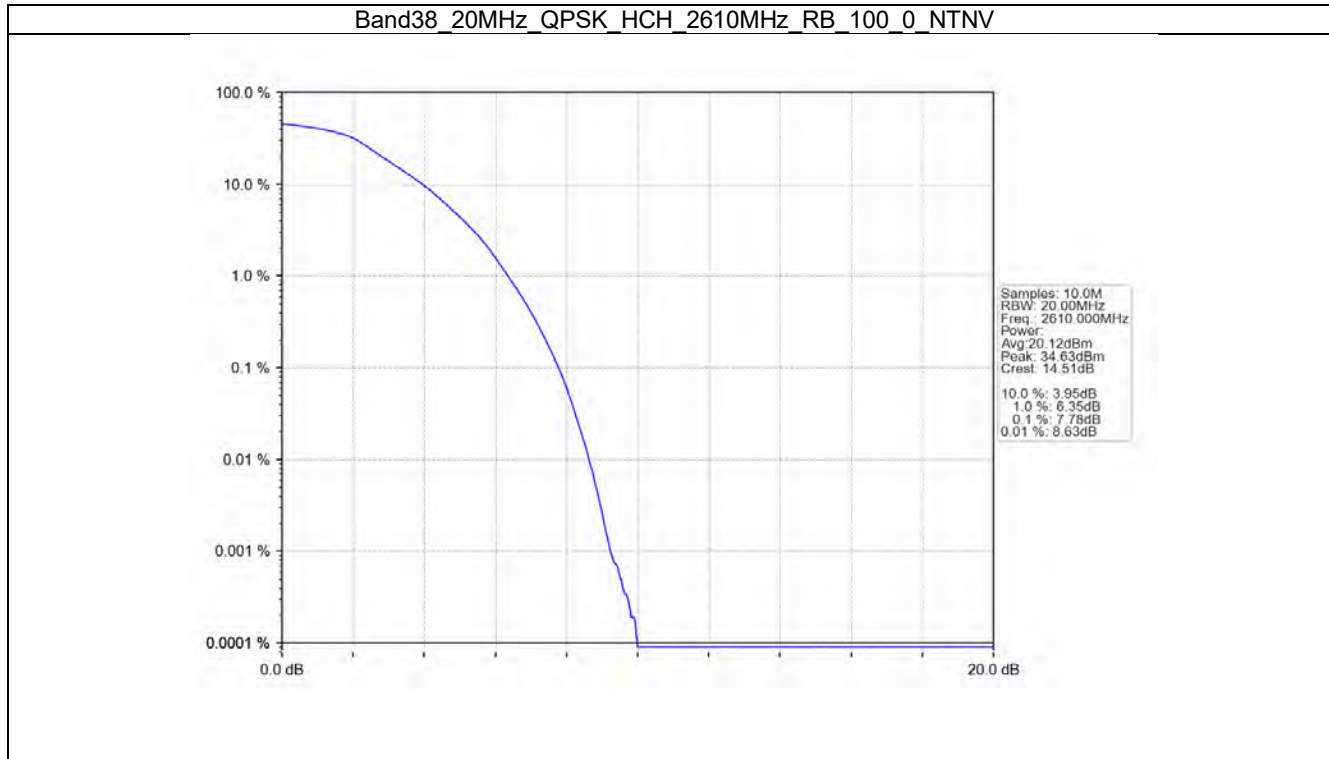


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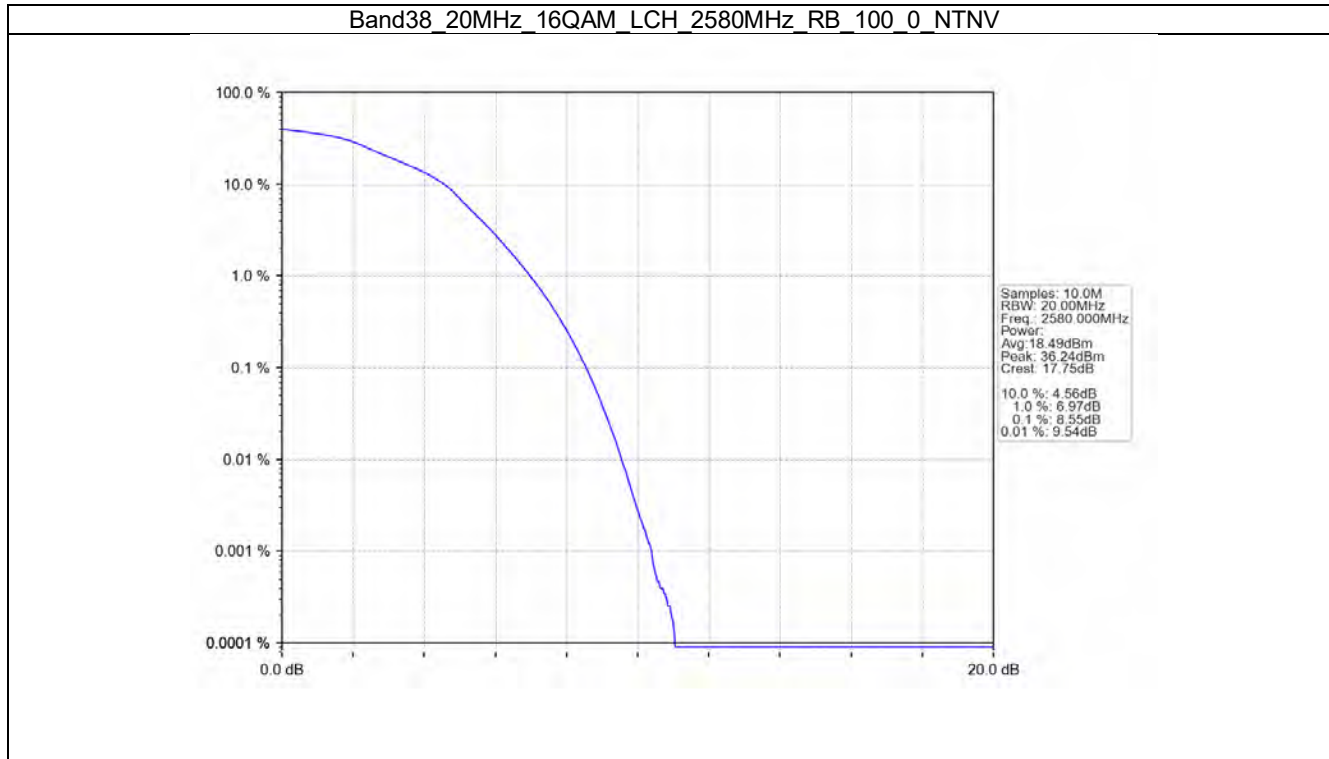


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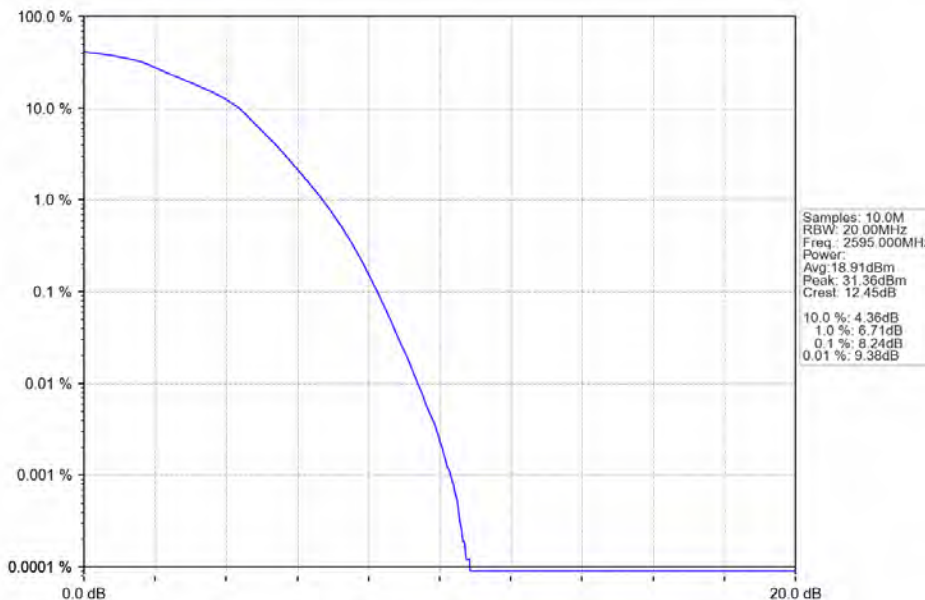
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Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



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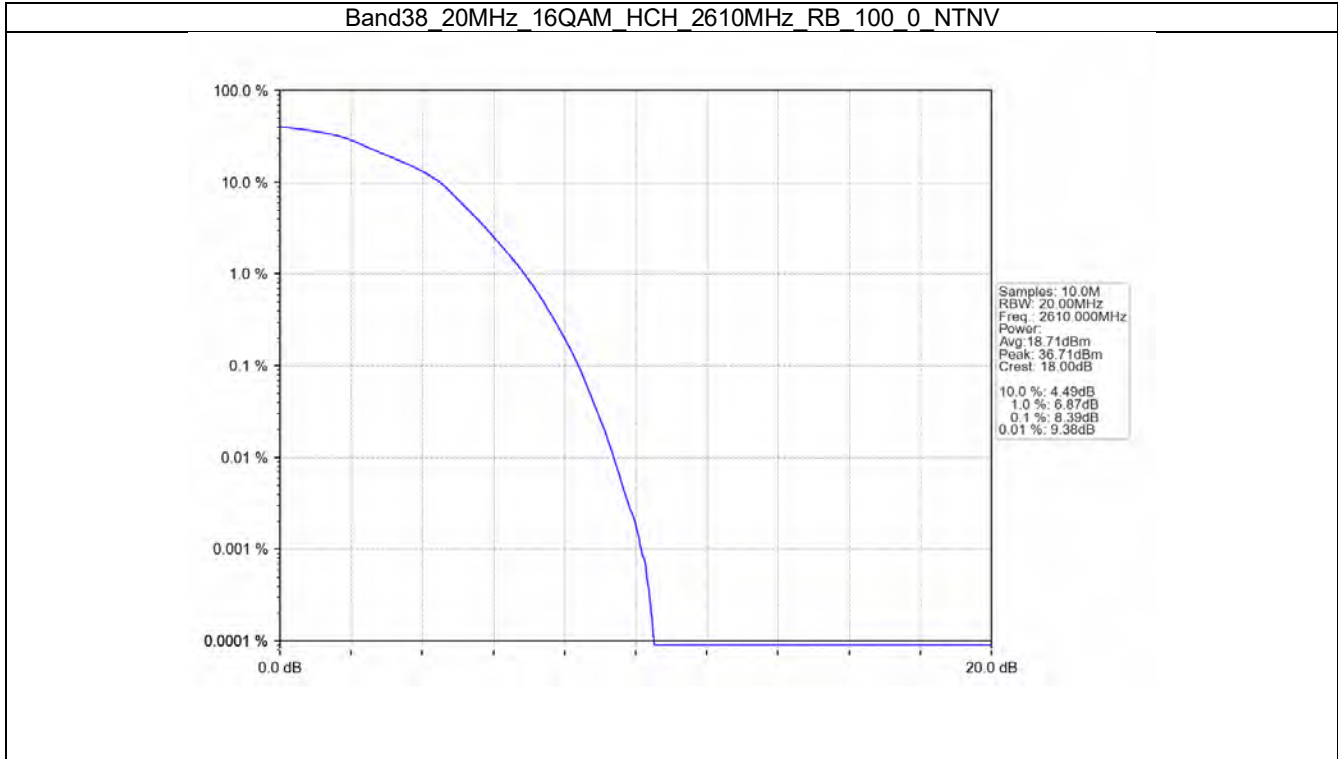
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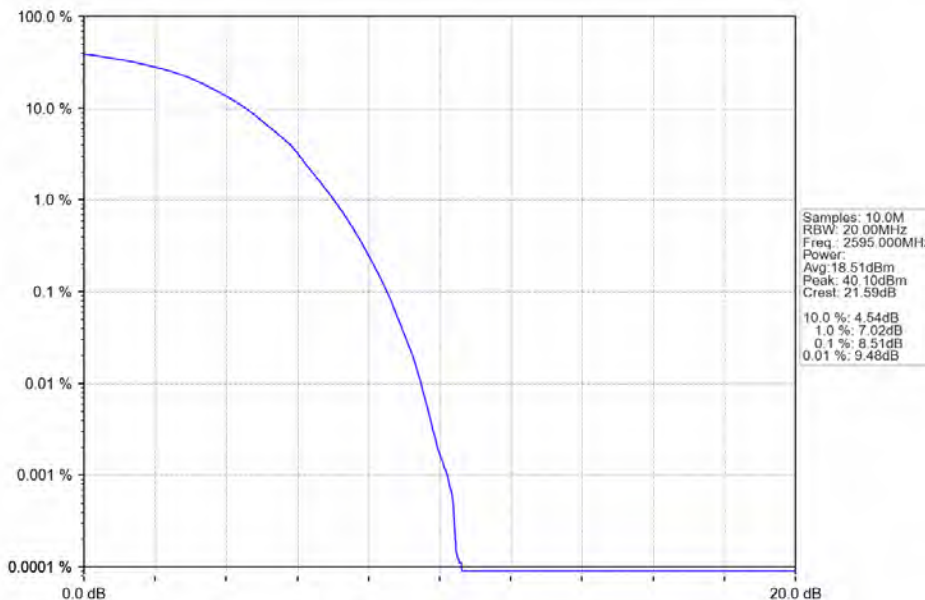
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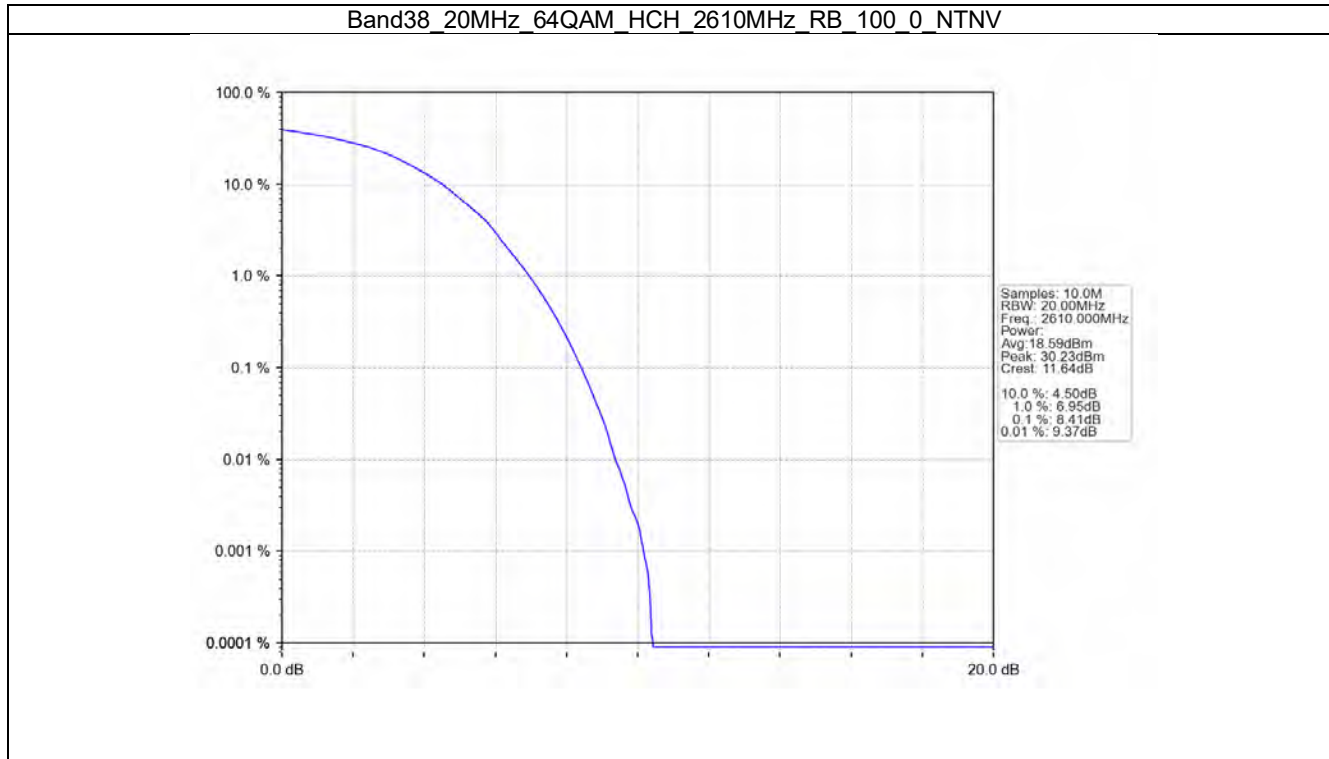


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5. Spurious Emission & Band Edges

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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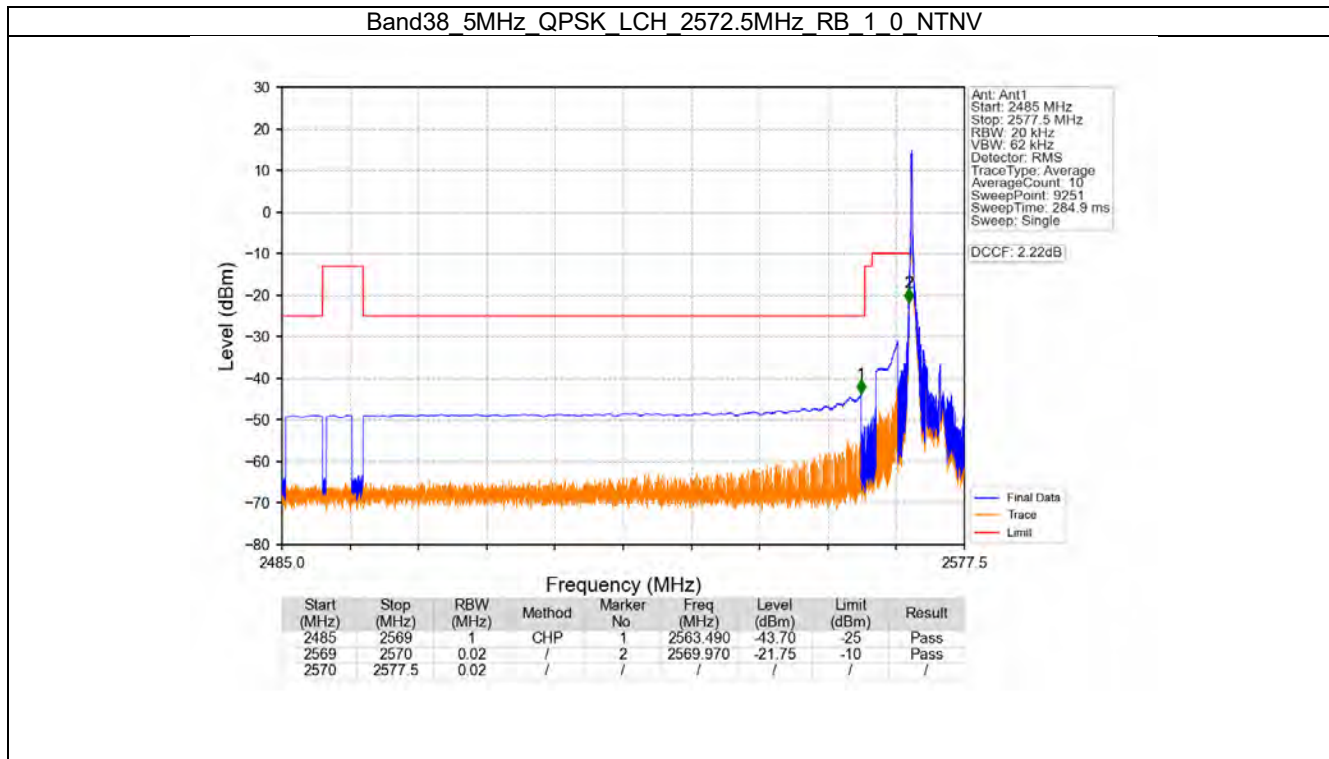
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5.1.2 Test Graph



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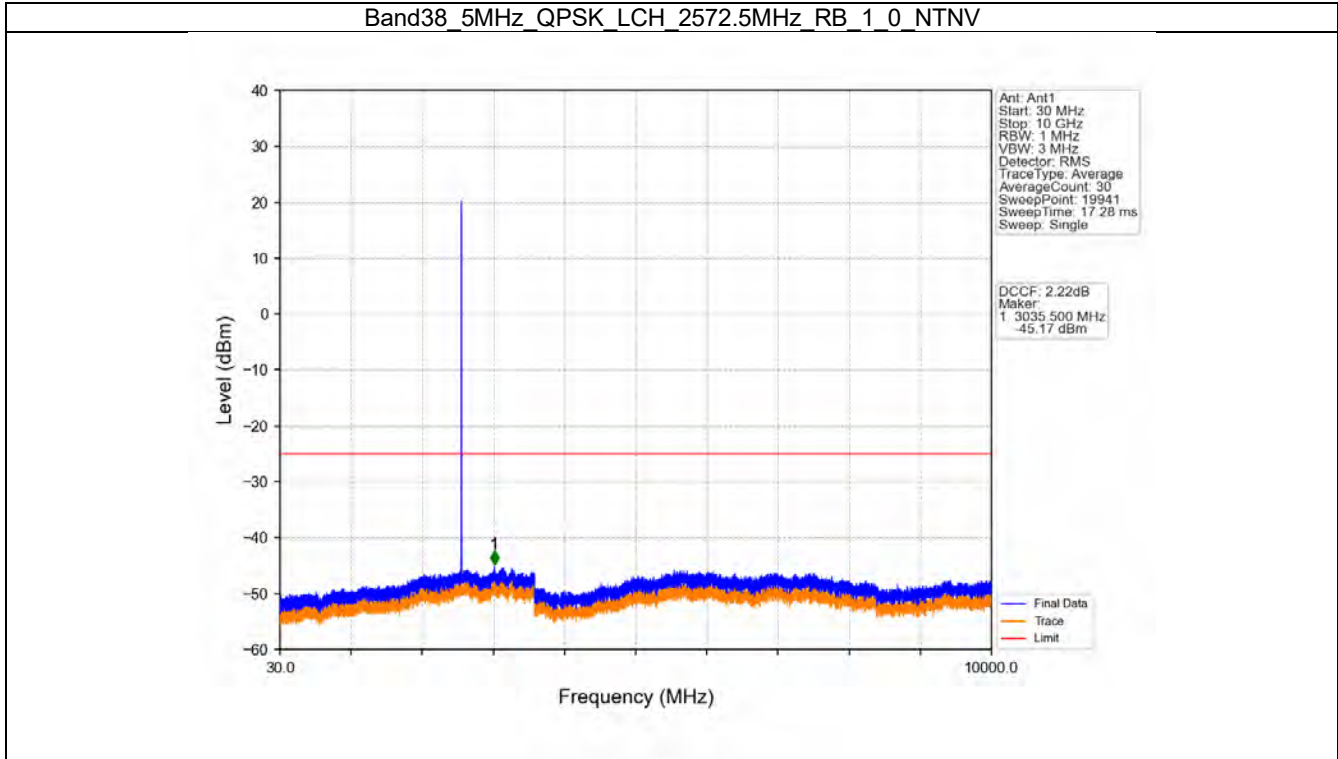
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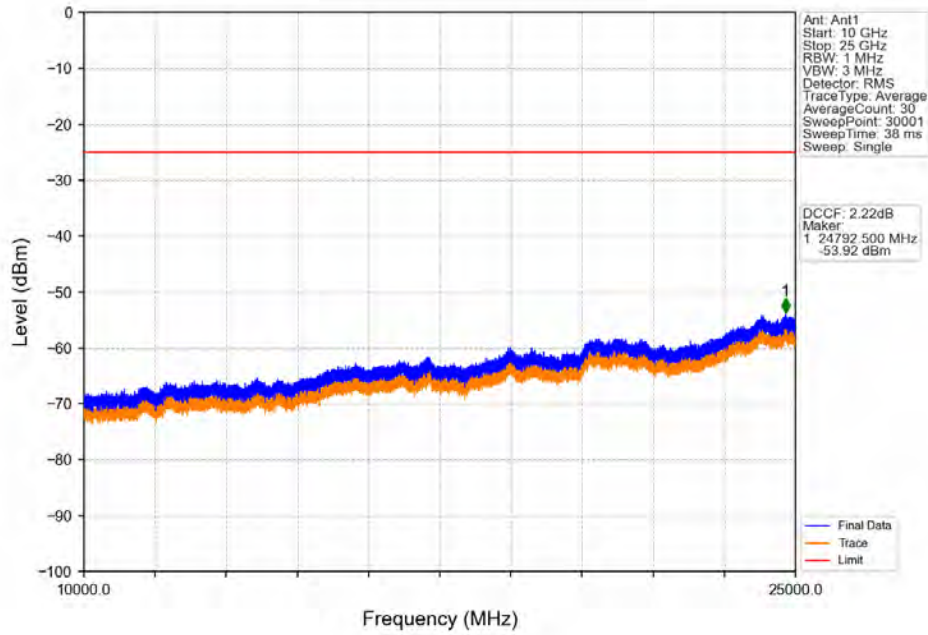
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Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



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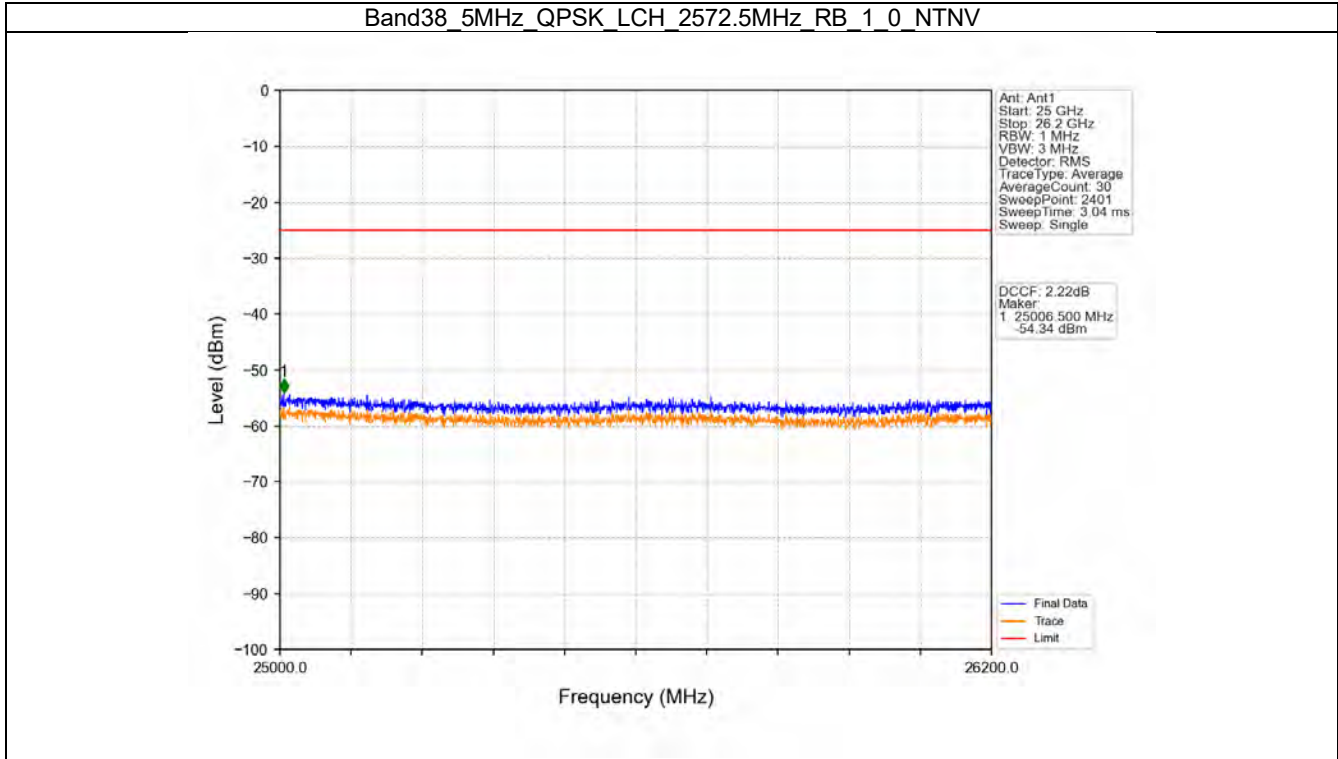
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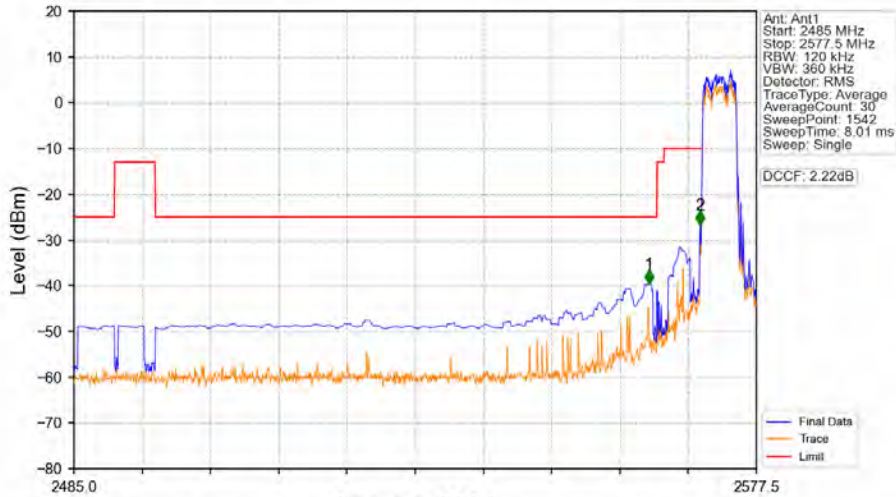
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Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2562.914	-39.62	-25	Pass
2569	2570	0.12	/	2	2569.877	-26.73	-10	Pass
2570	2577.5	0.12	/	/	/	/	/	/



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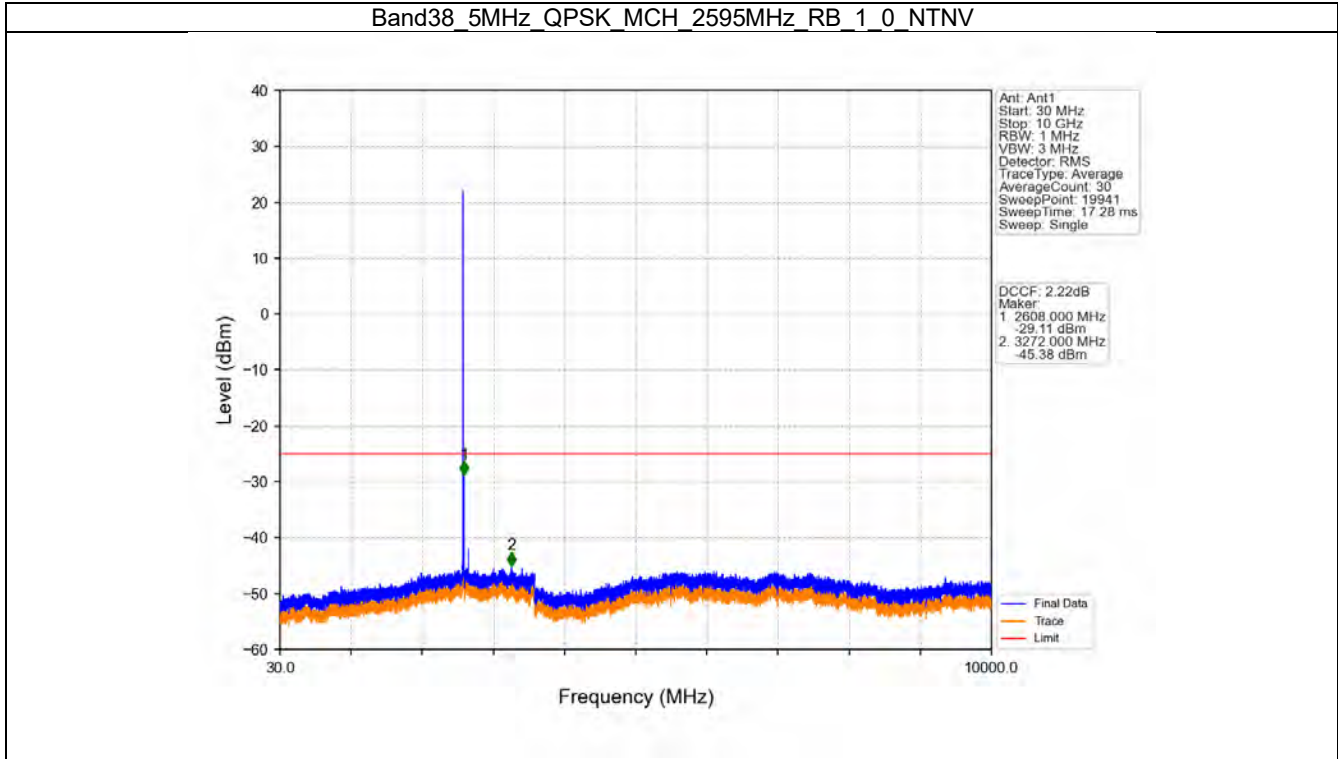
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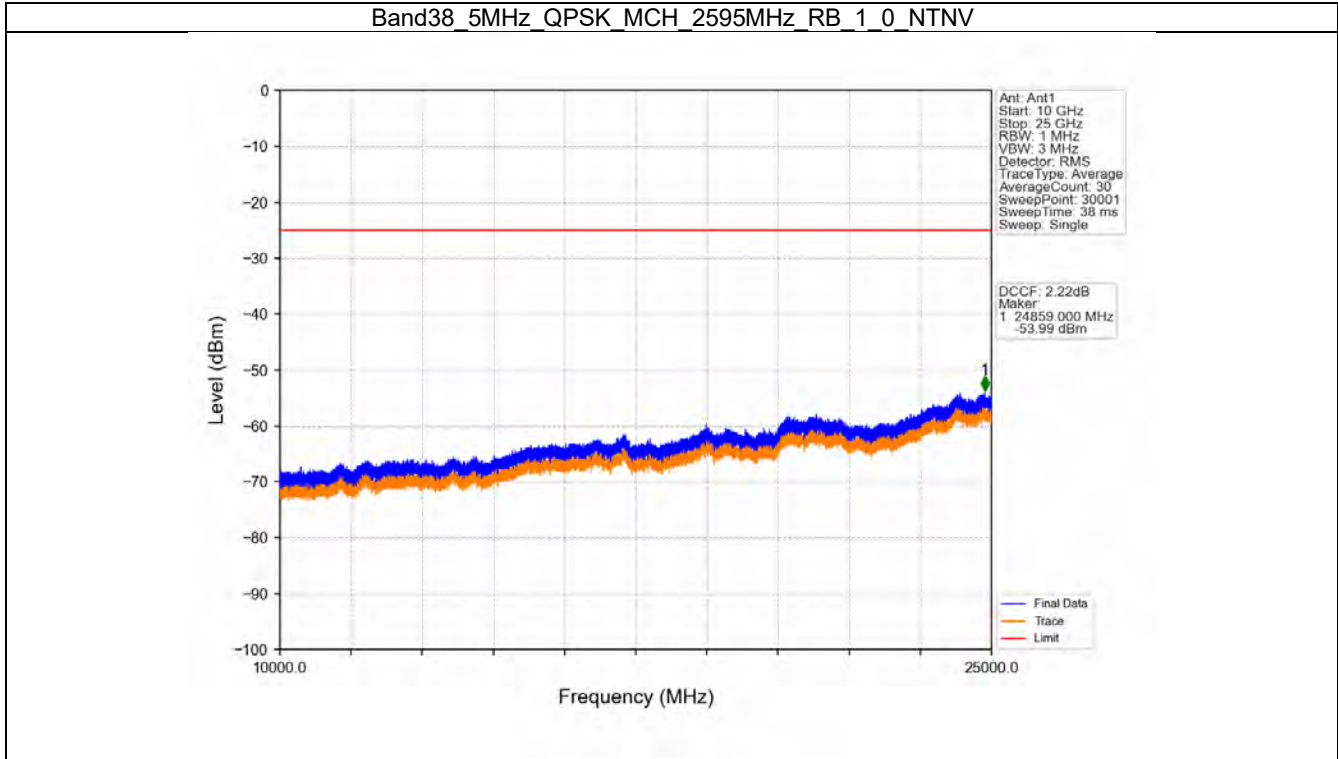
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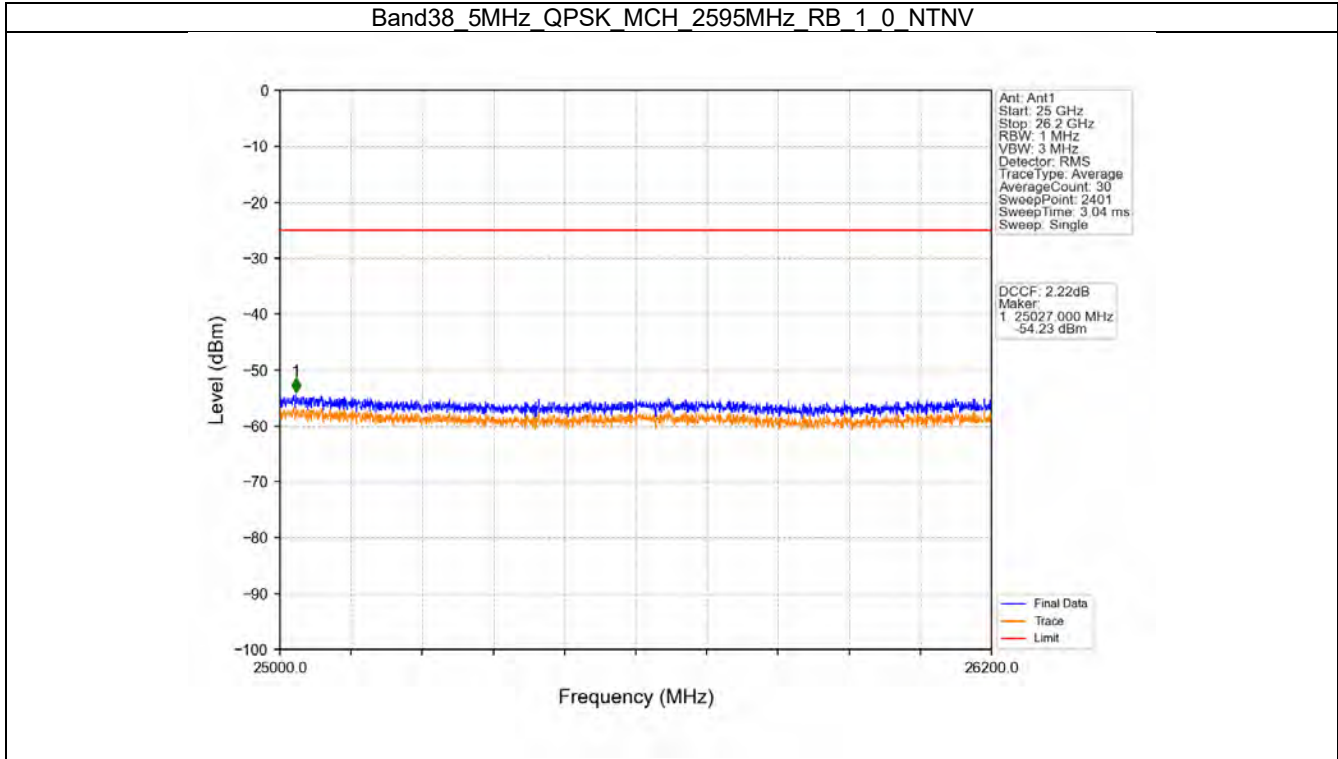
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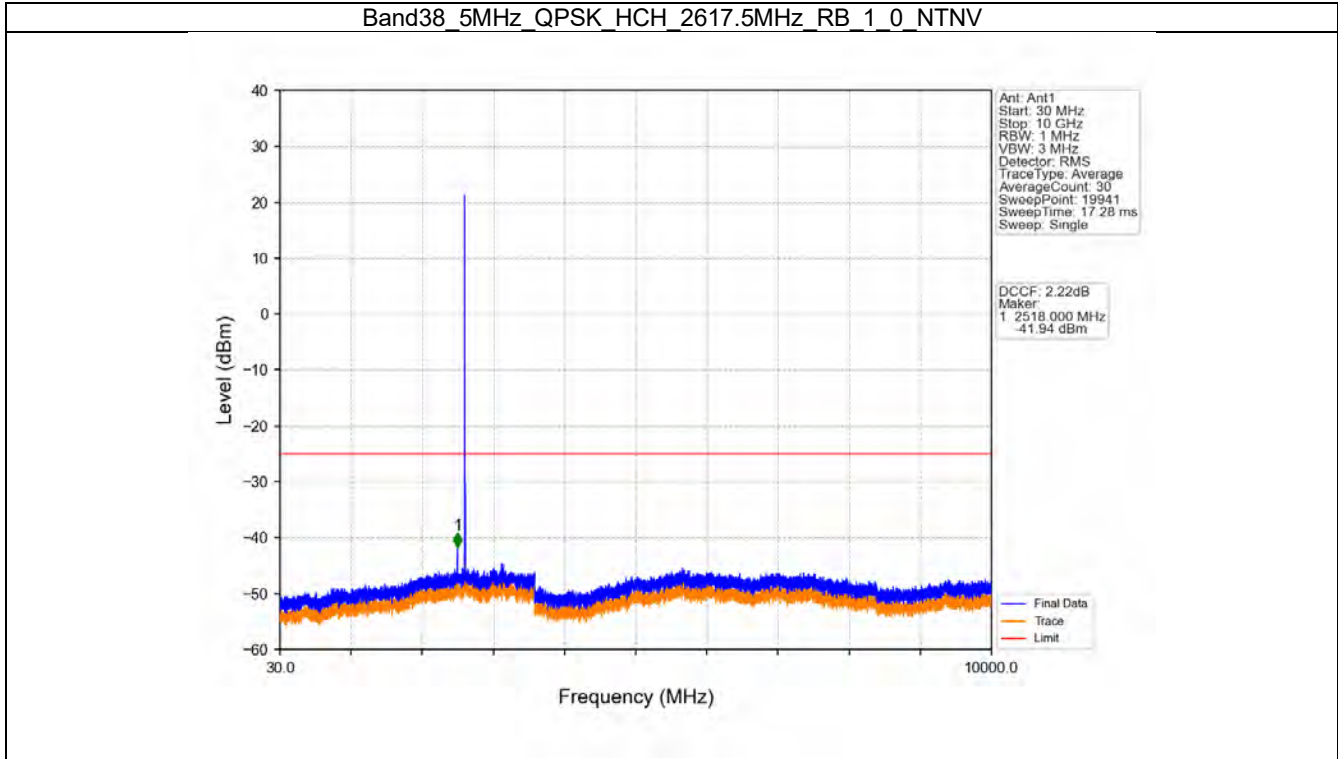
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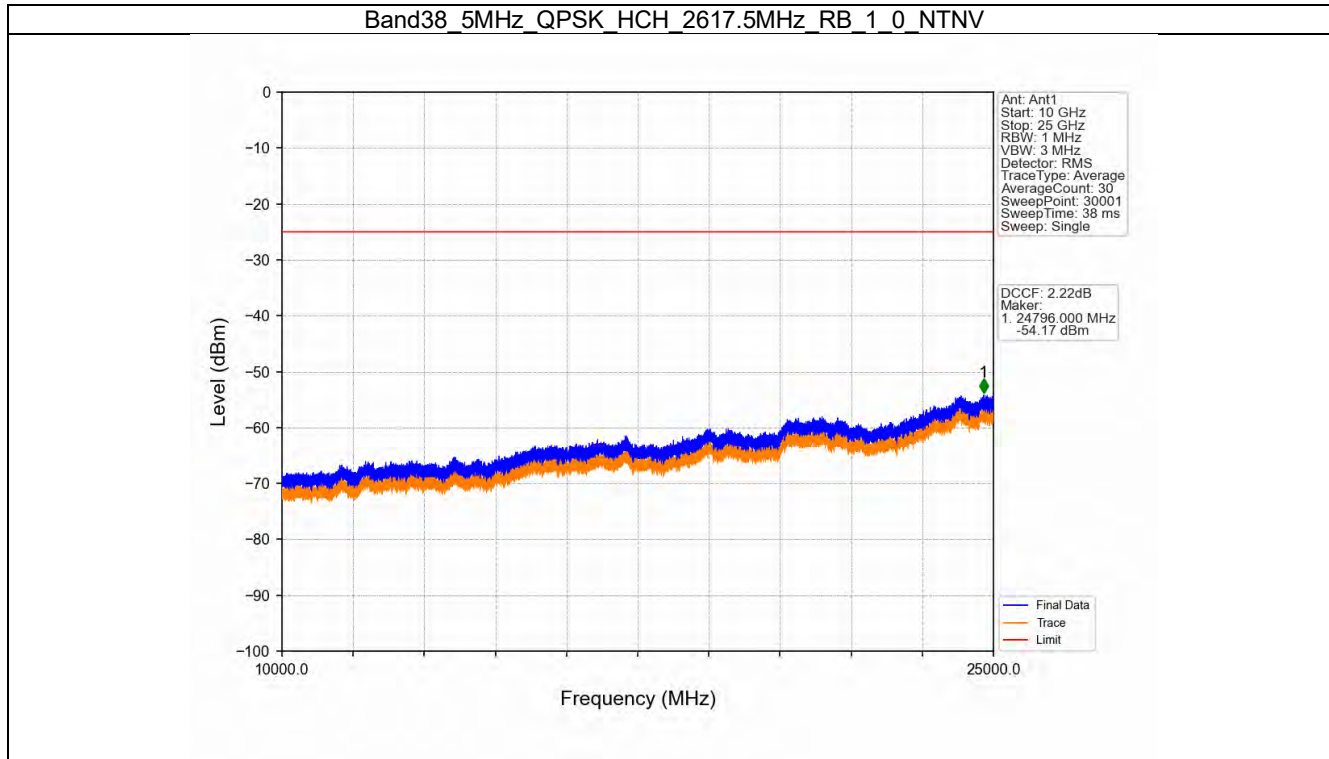


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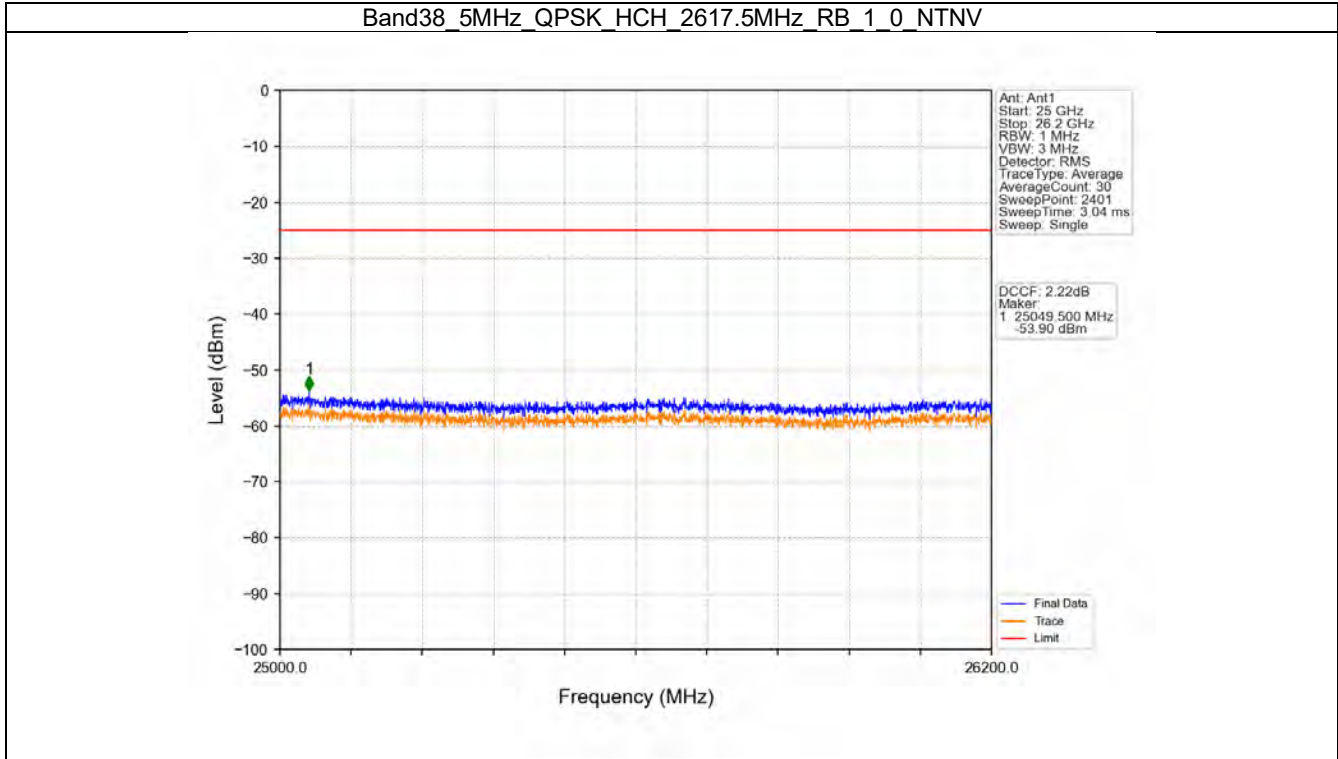
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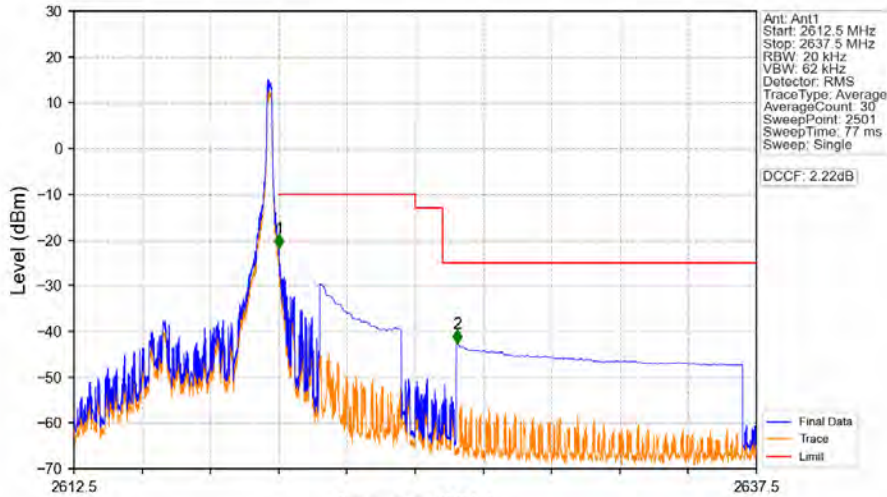
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Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.010	-21.92	-10	Pass
2620	2621	0.02	CHP	2	2626.530	-42.69	-25	Pass



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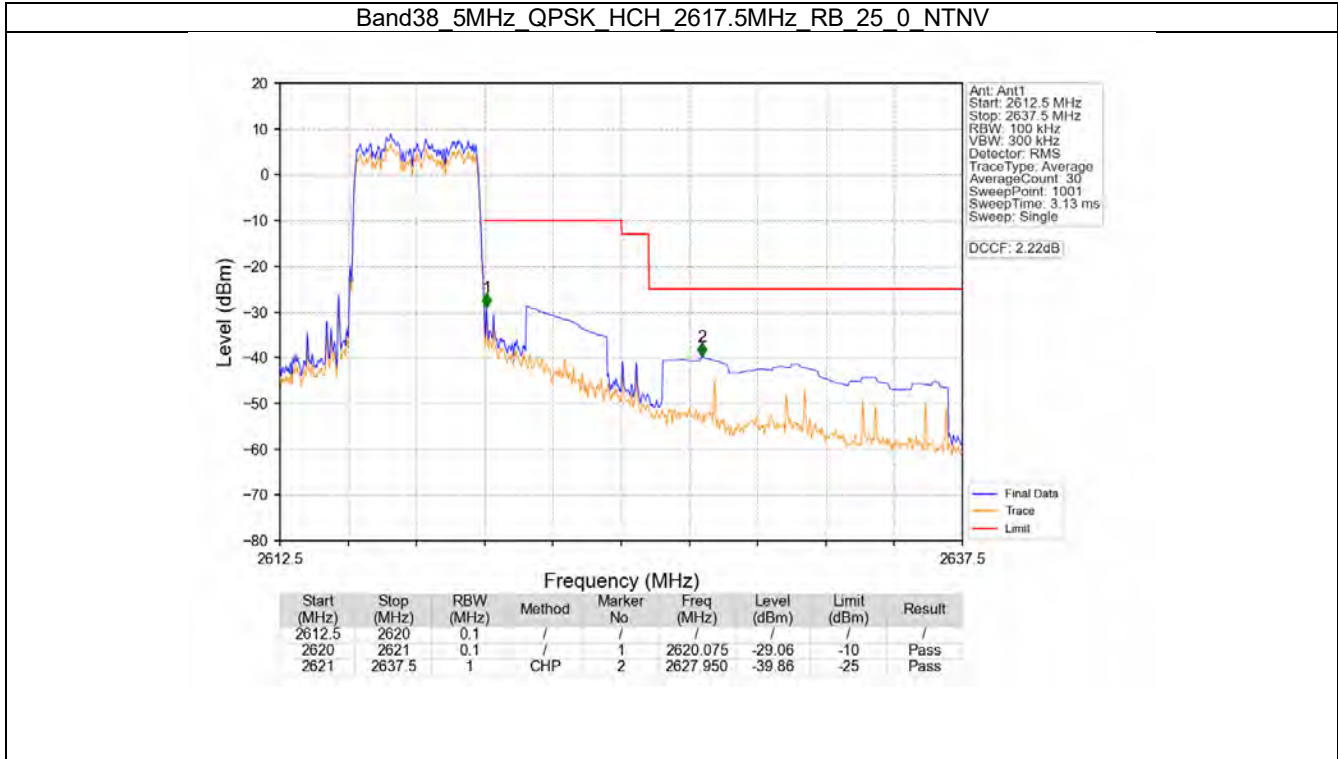
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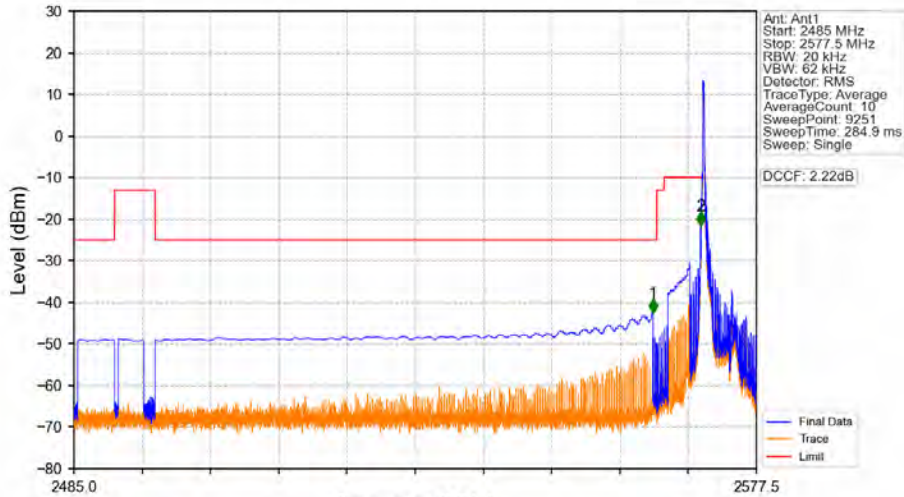
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Band38_5MHz_16QAM_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.480	-42.57	-25	Pass
2569	2570	0.02	/	2	2569.940	-21.65	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



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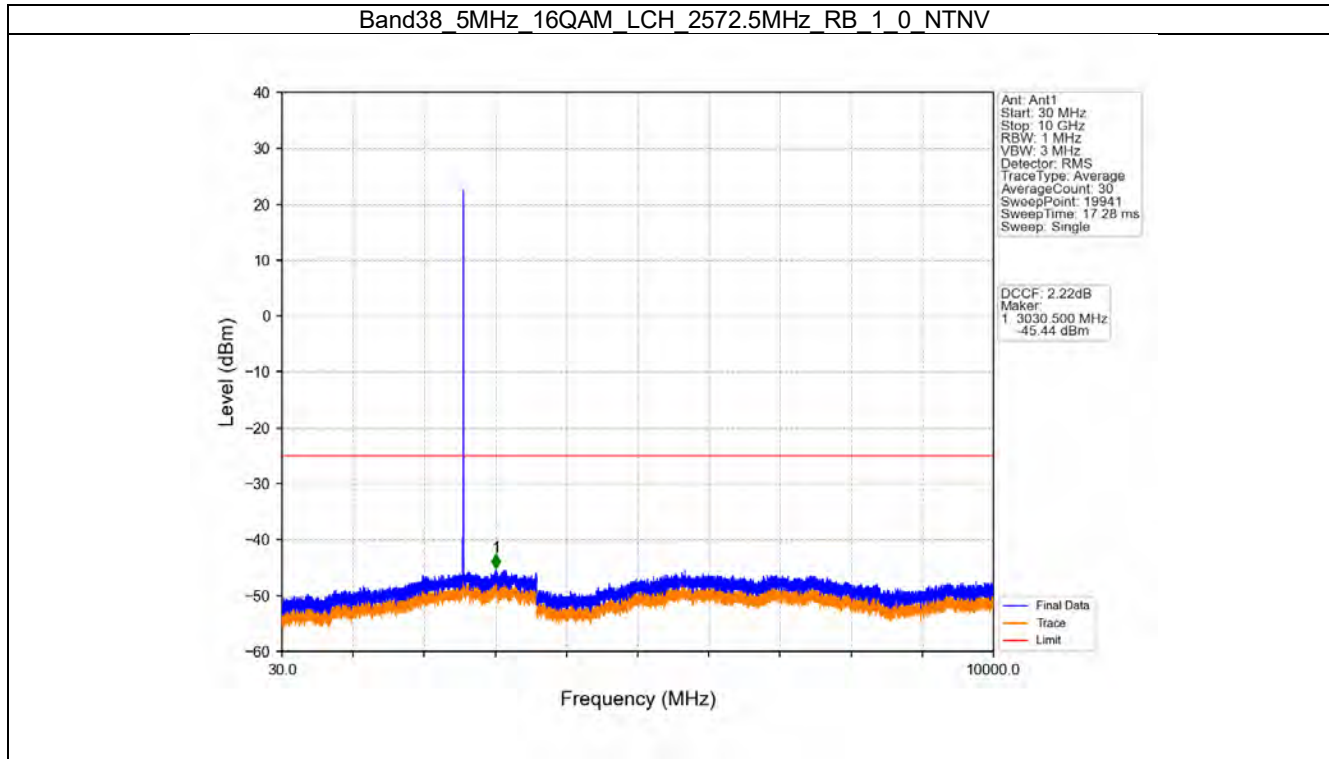


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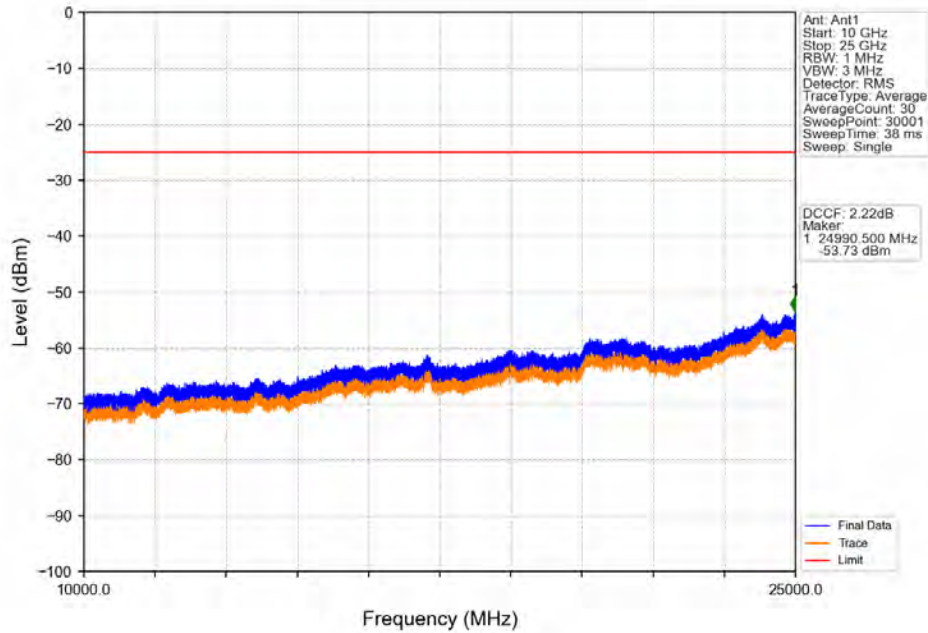
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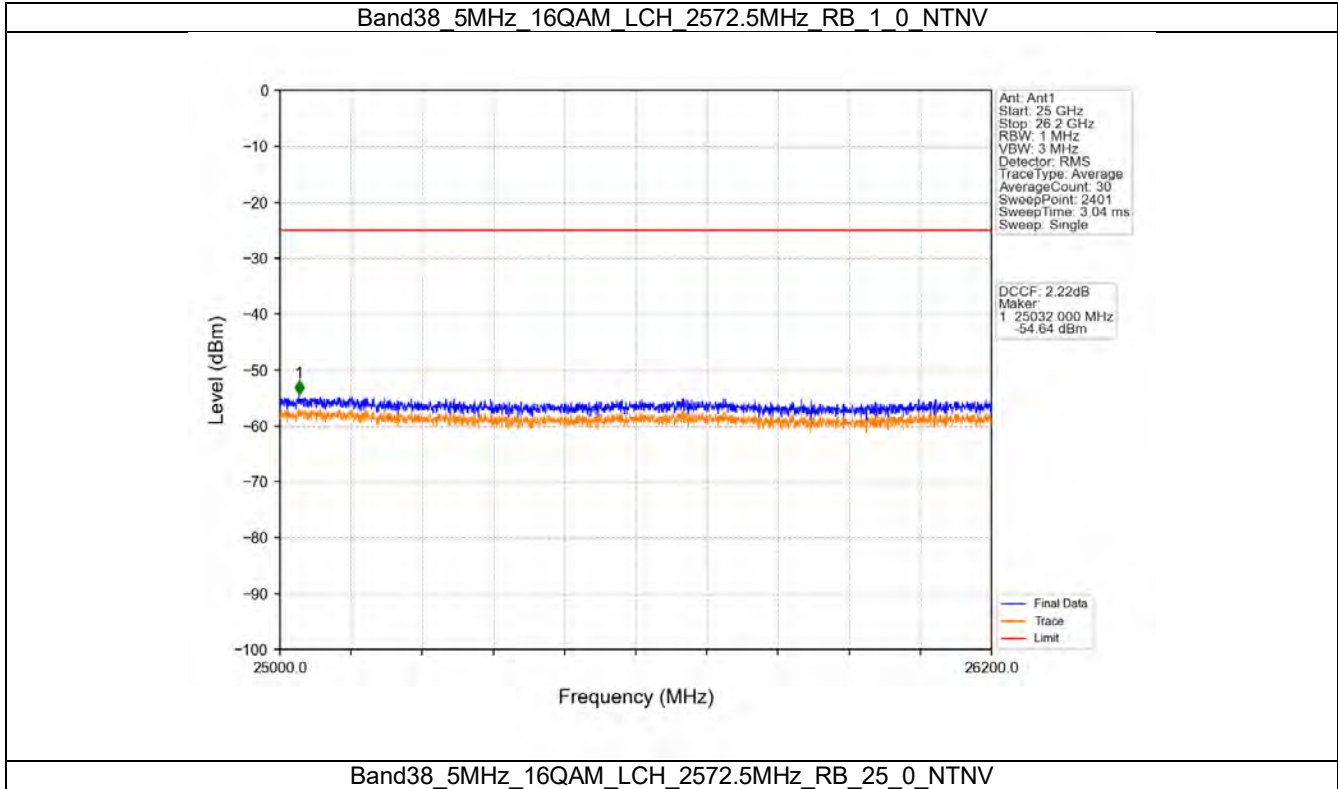
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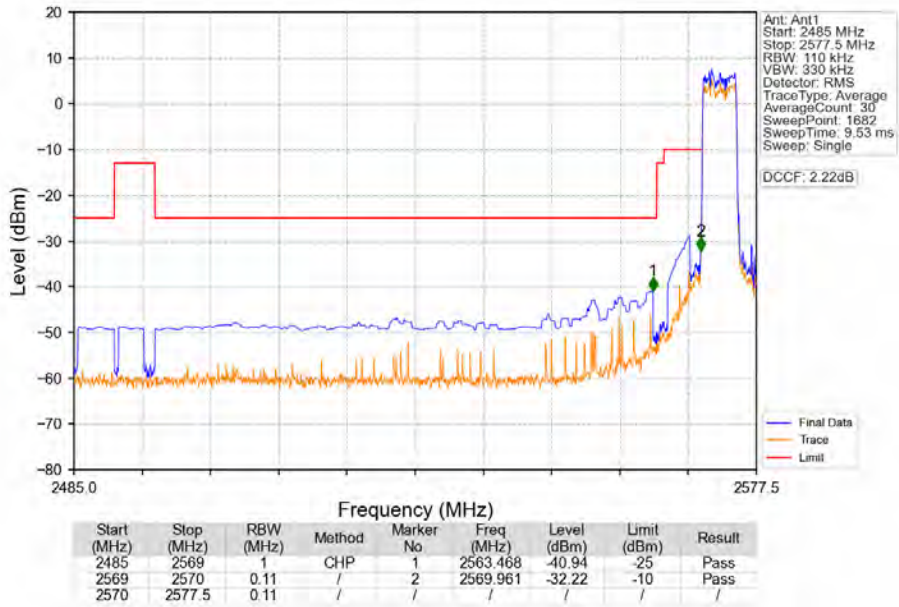
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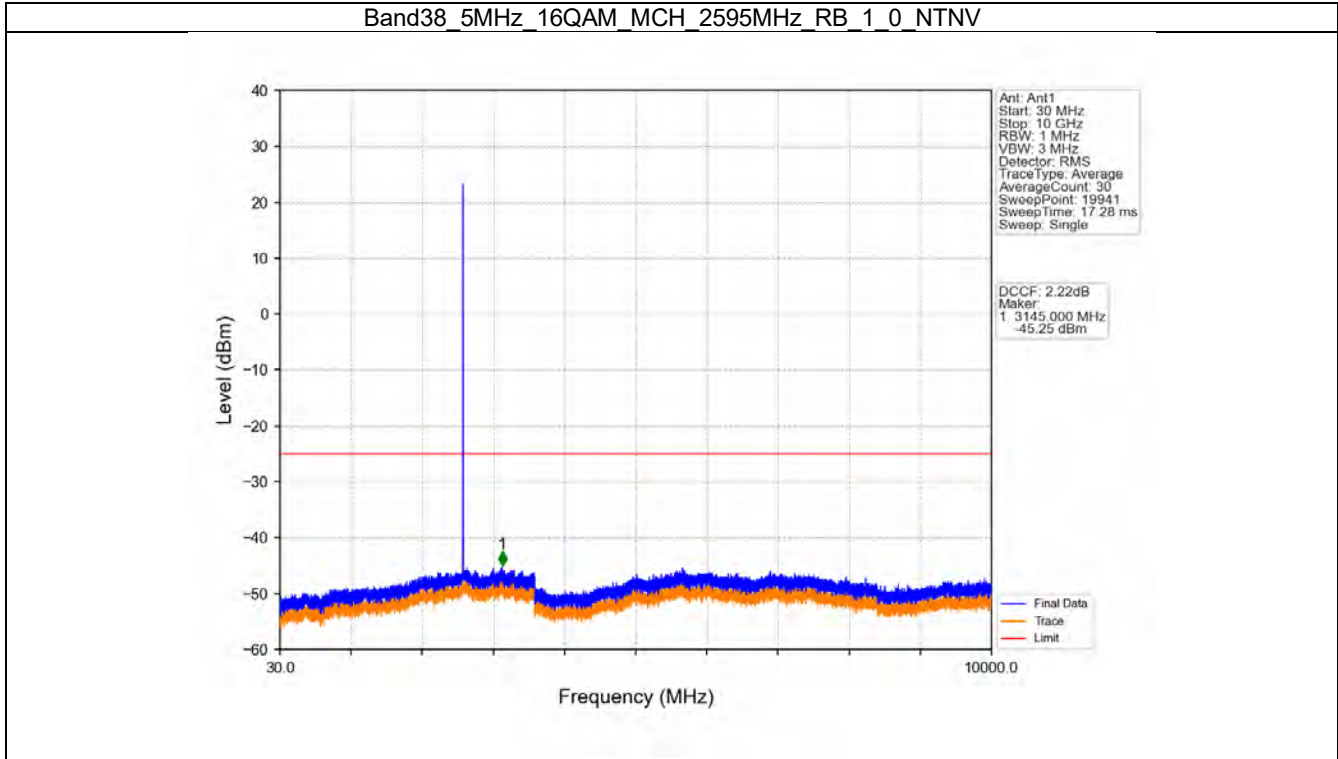
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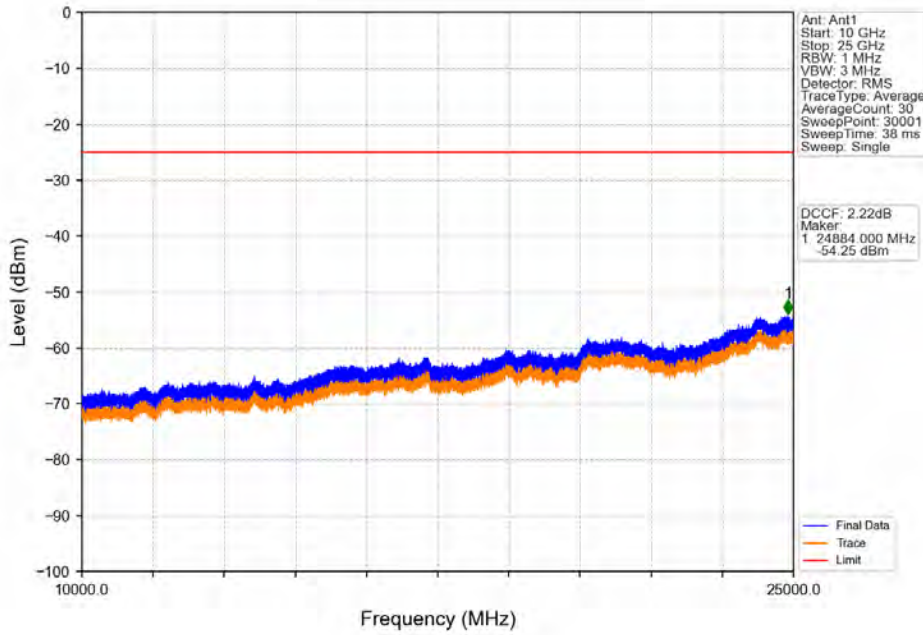
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Band38_5MHz_16QAM_MCH_2595MHz_RB_1_0_NTNV



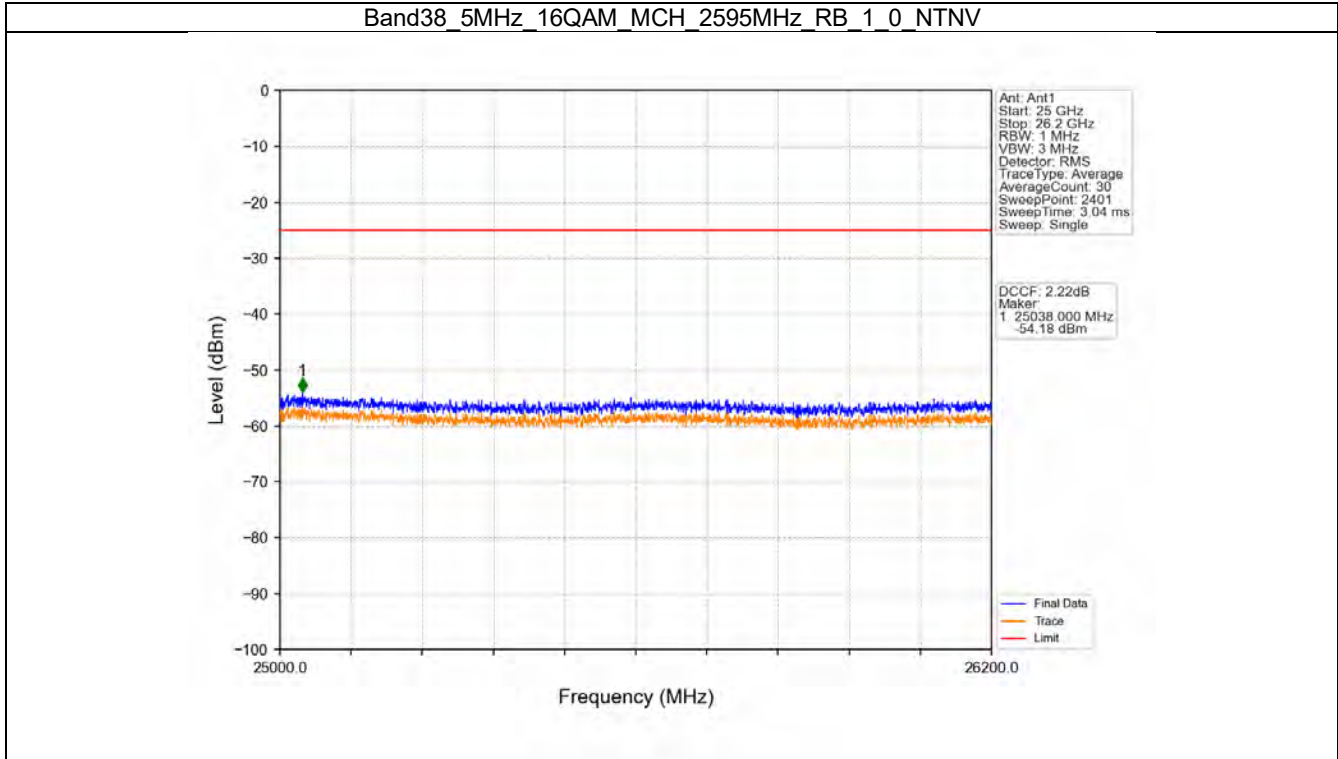
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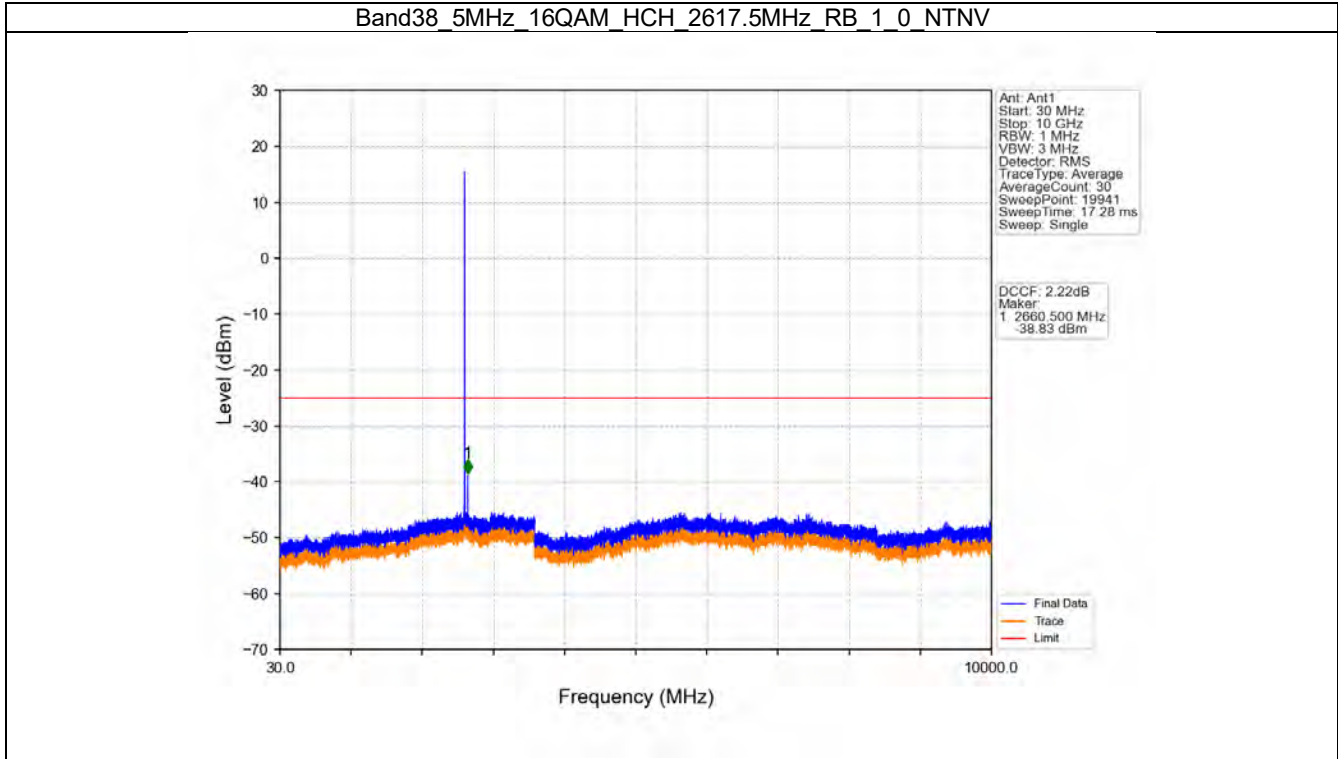
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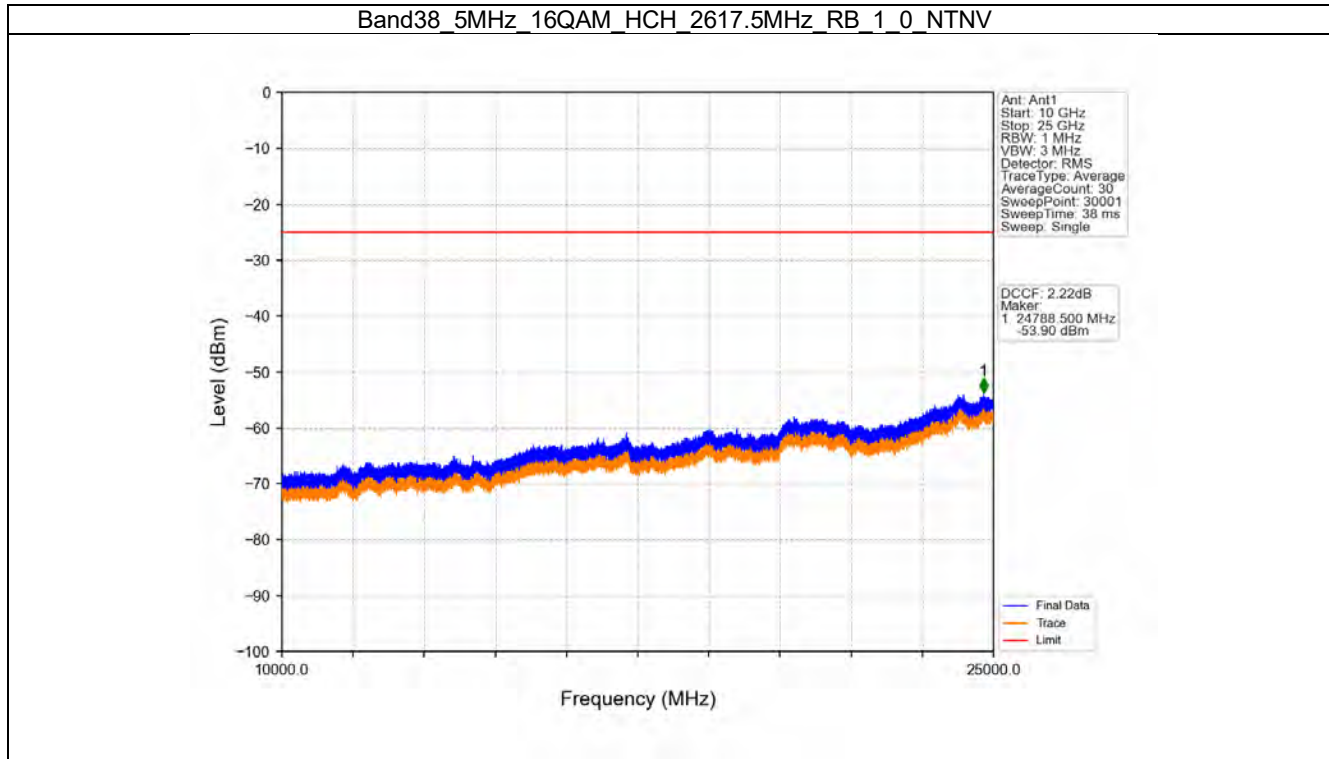


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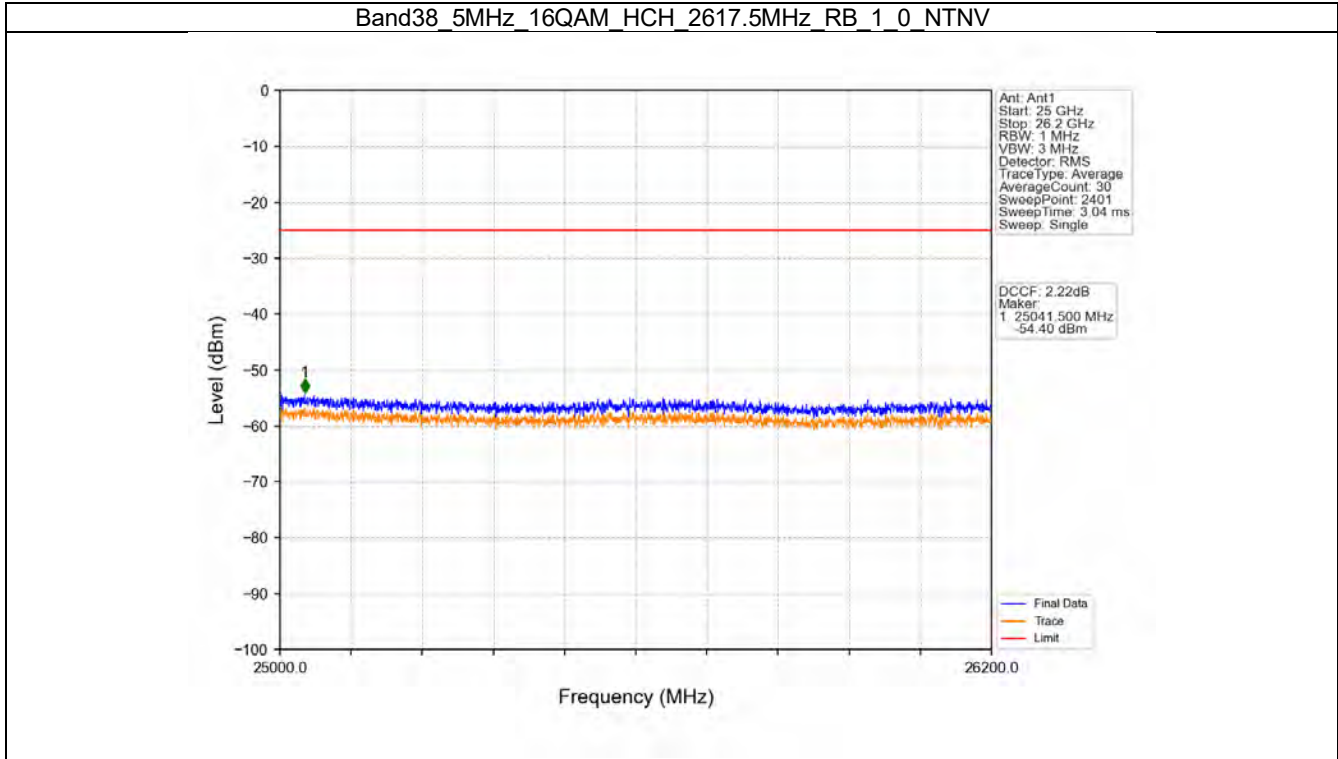
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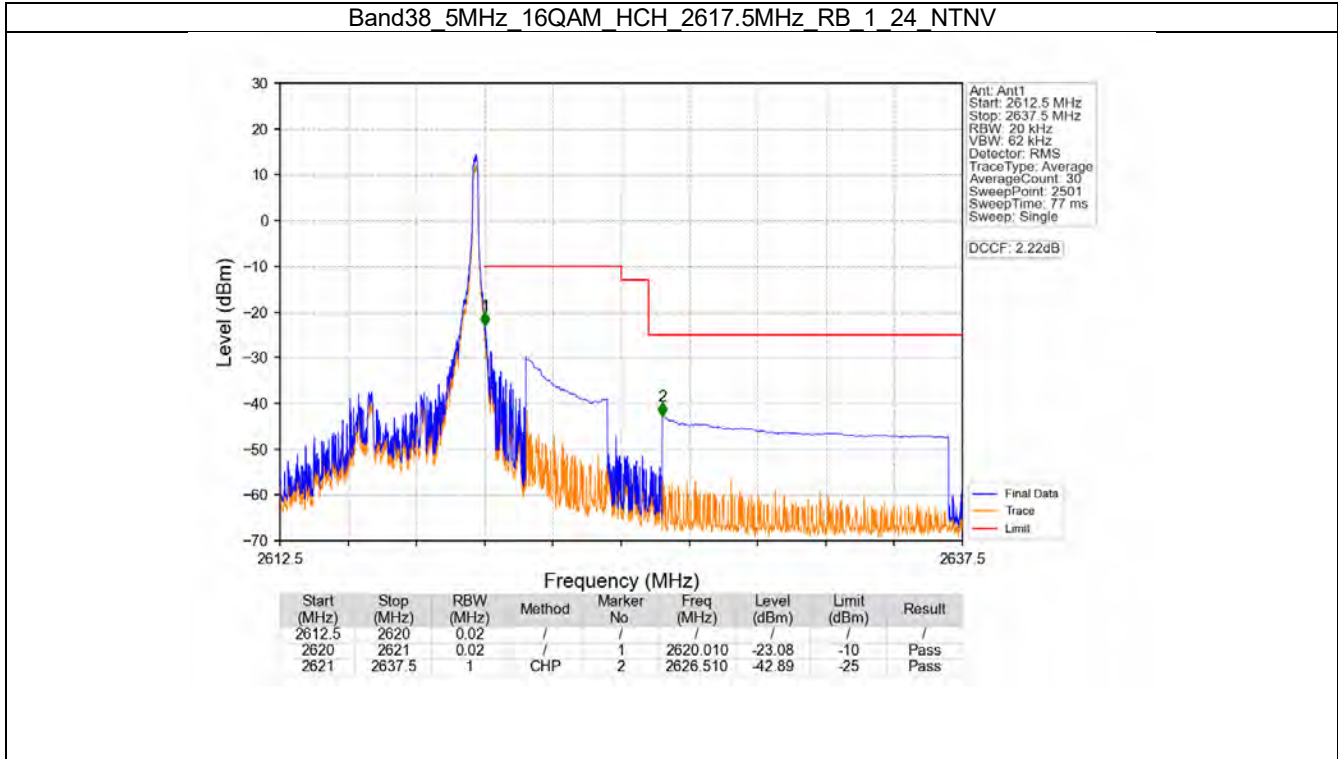
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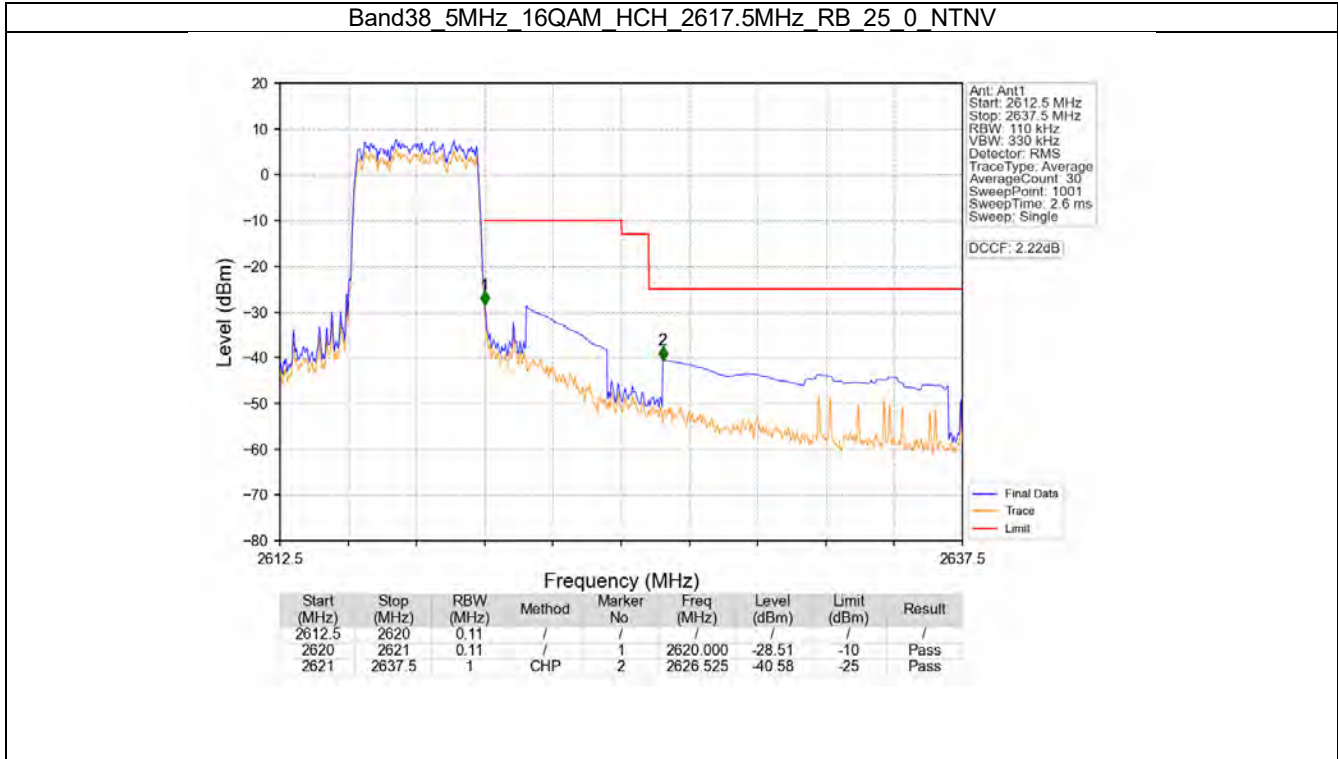
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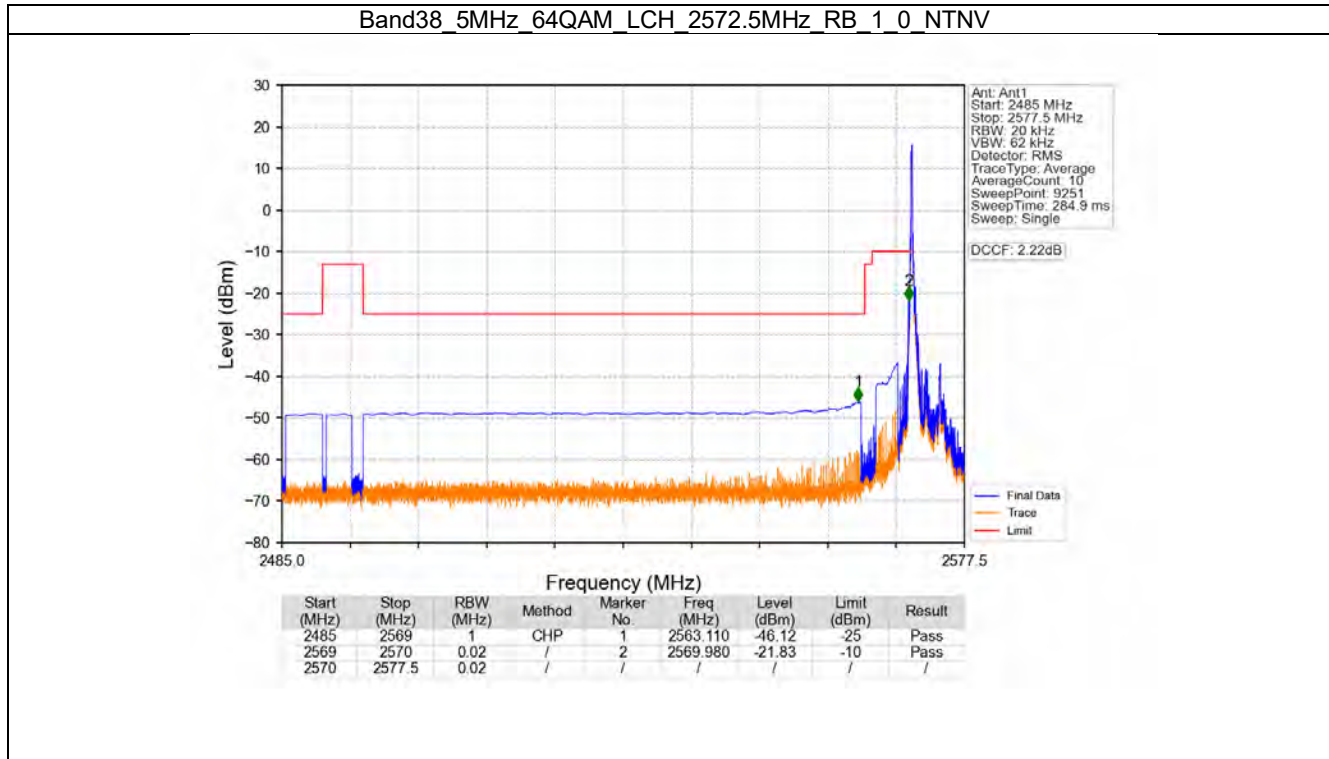


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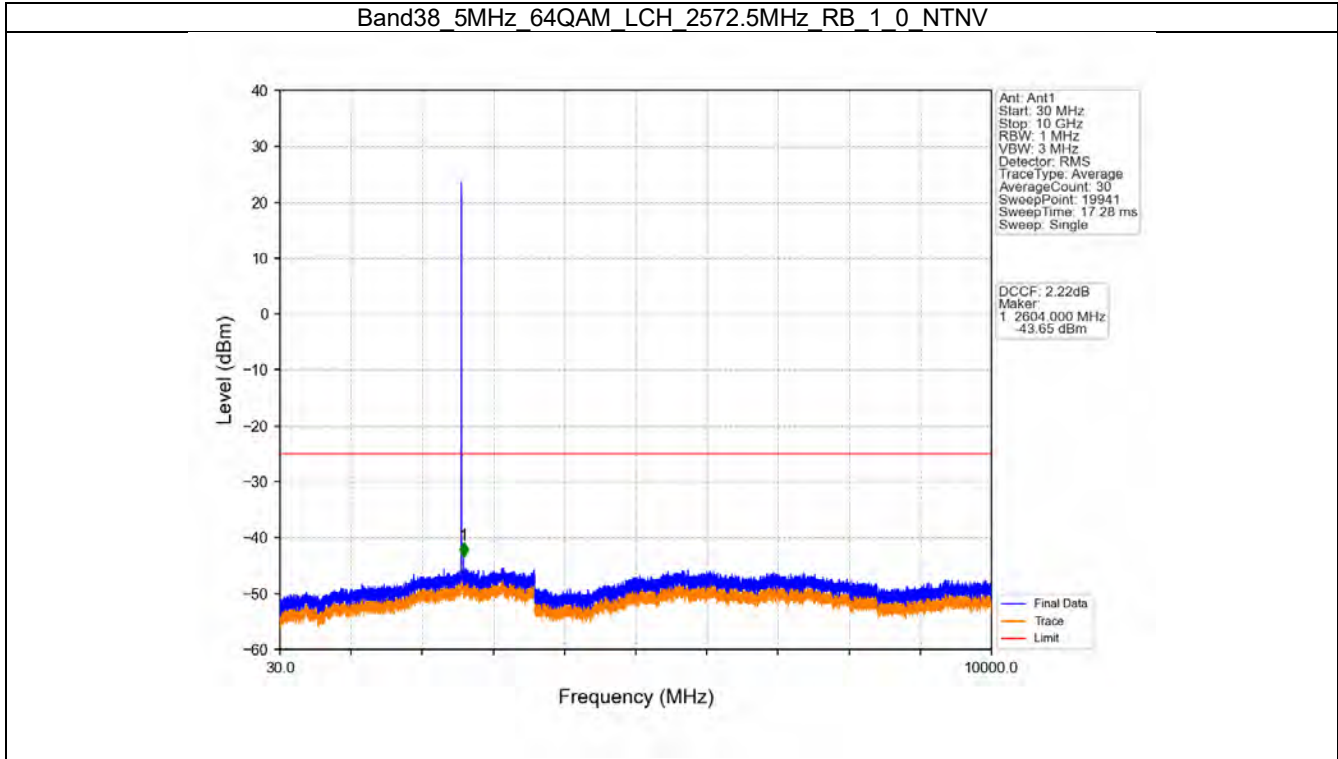
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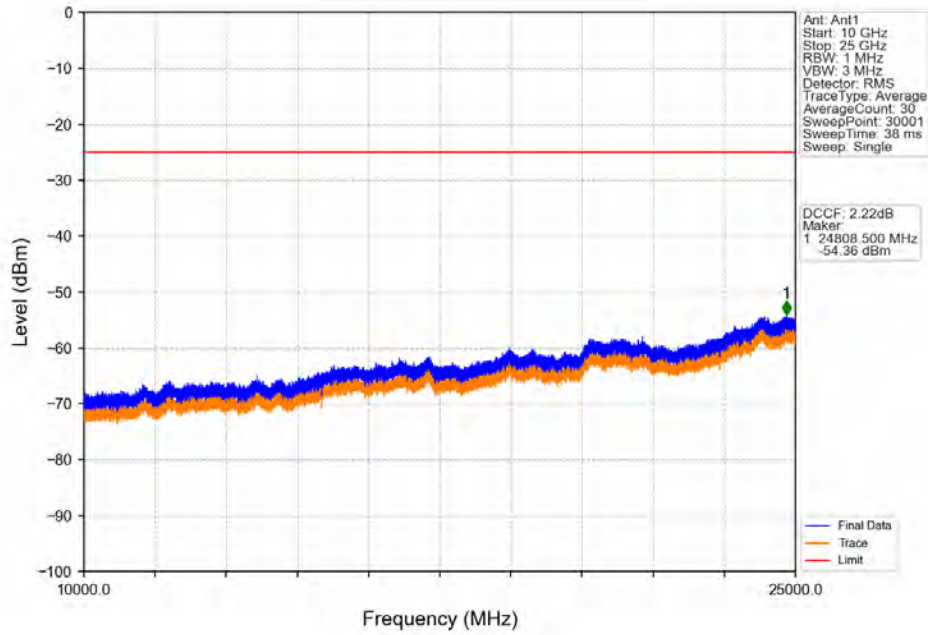
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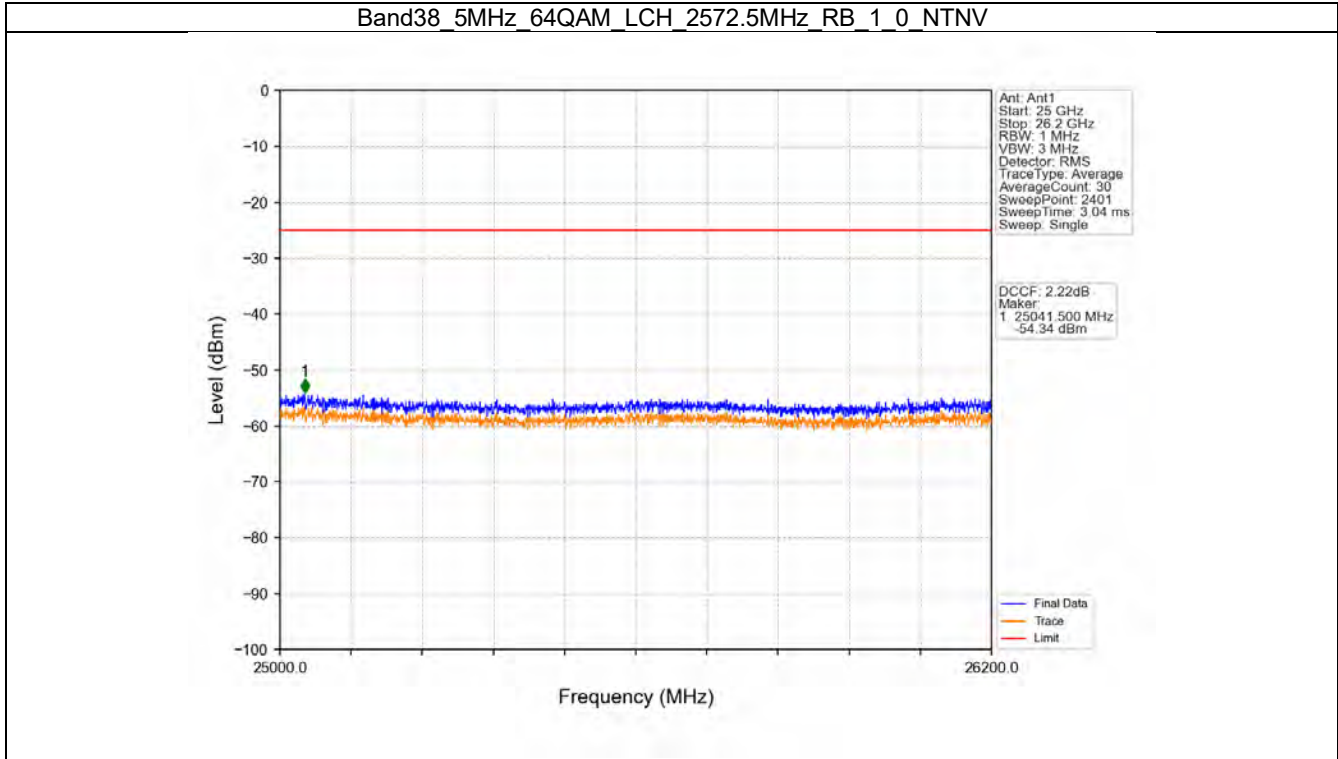
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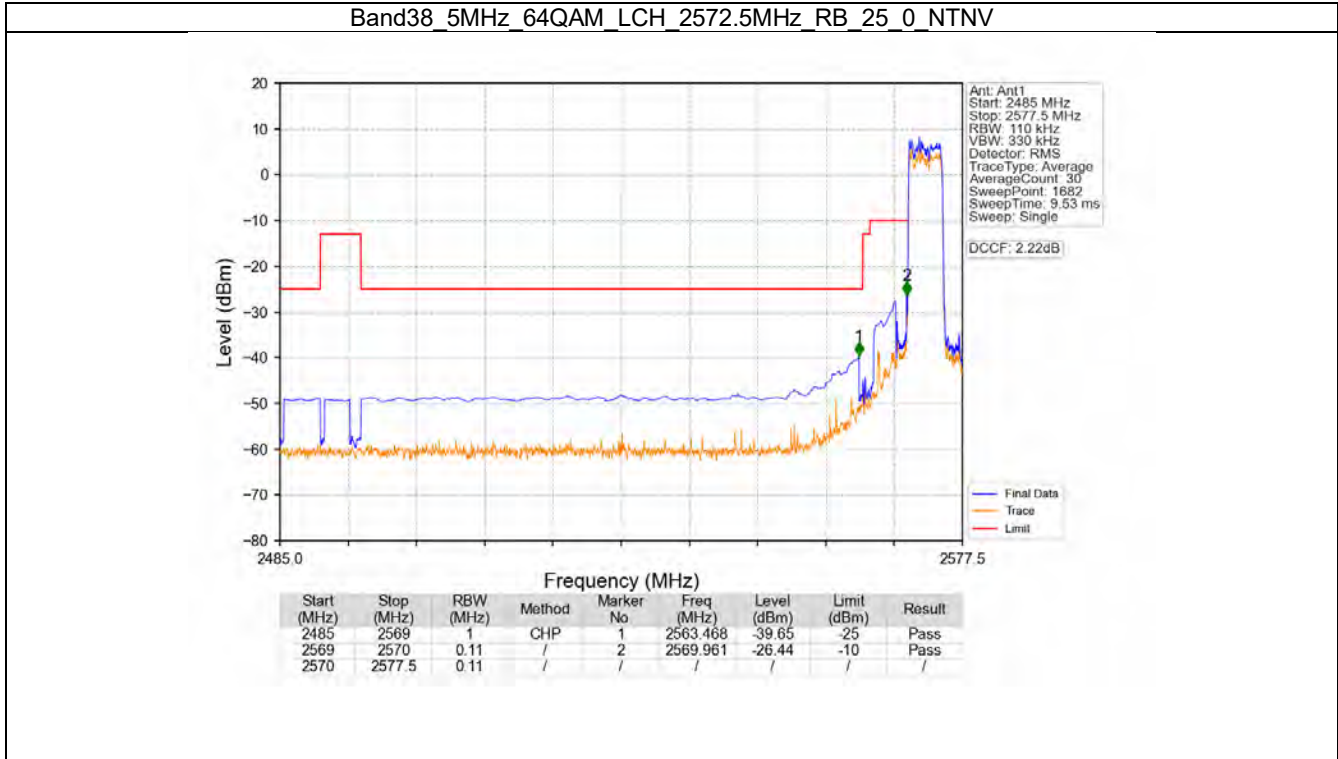
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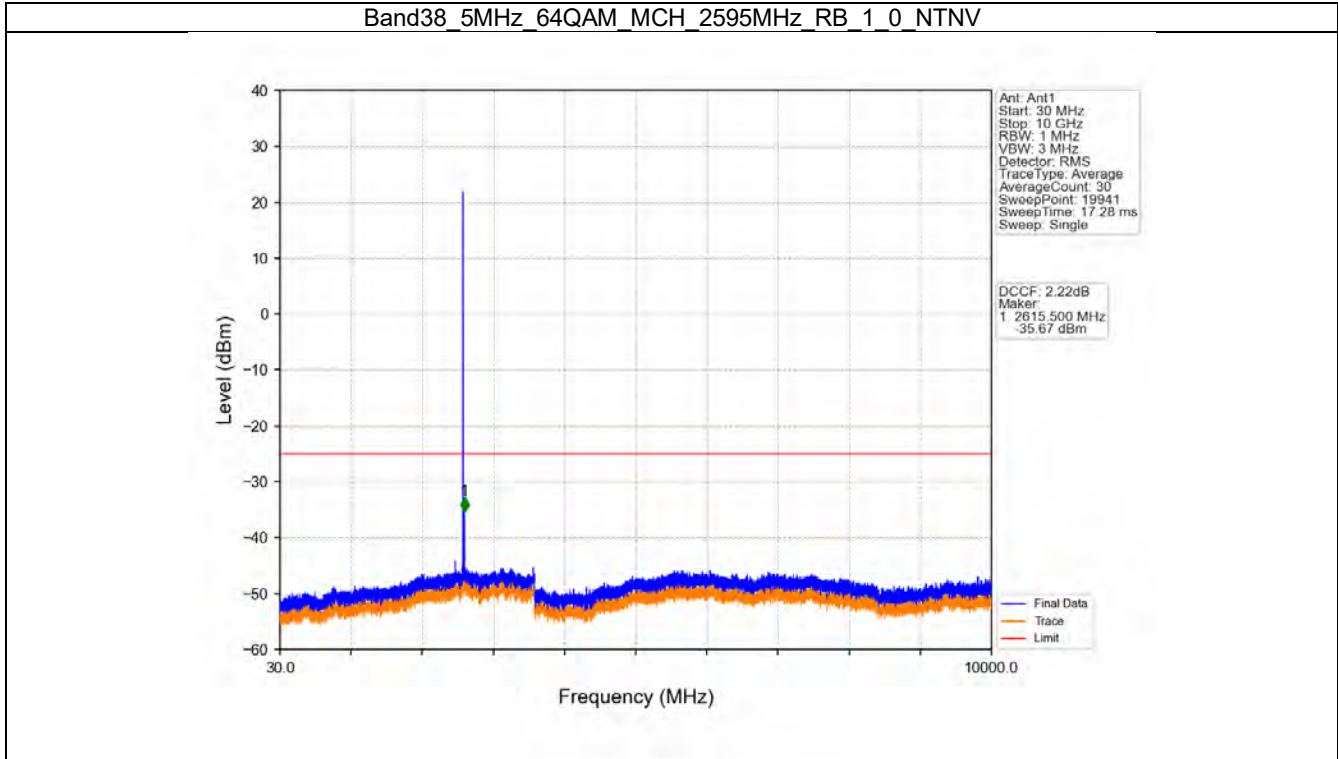
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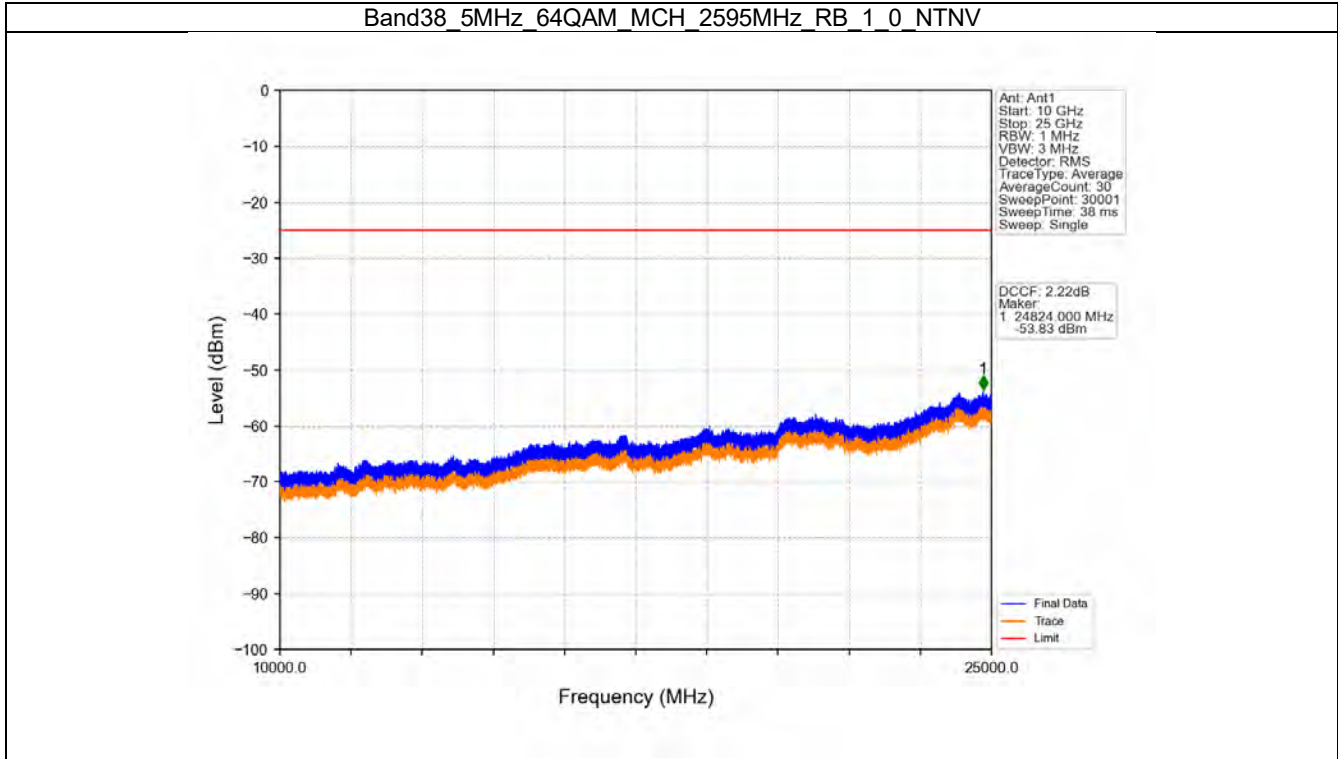
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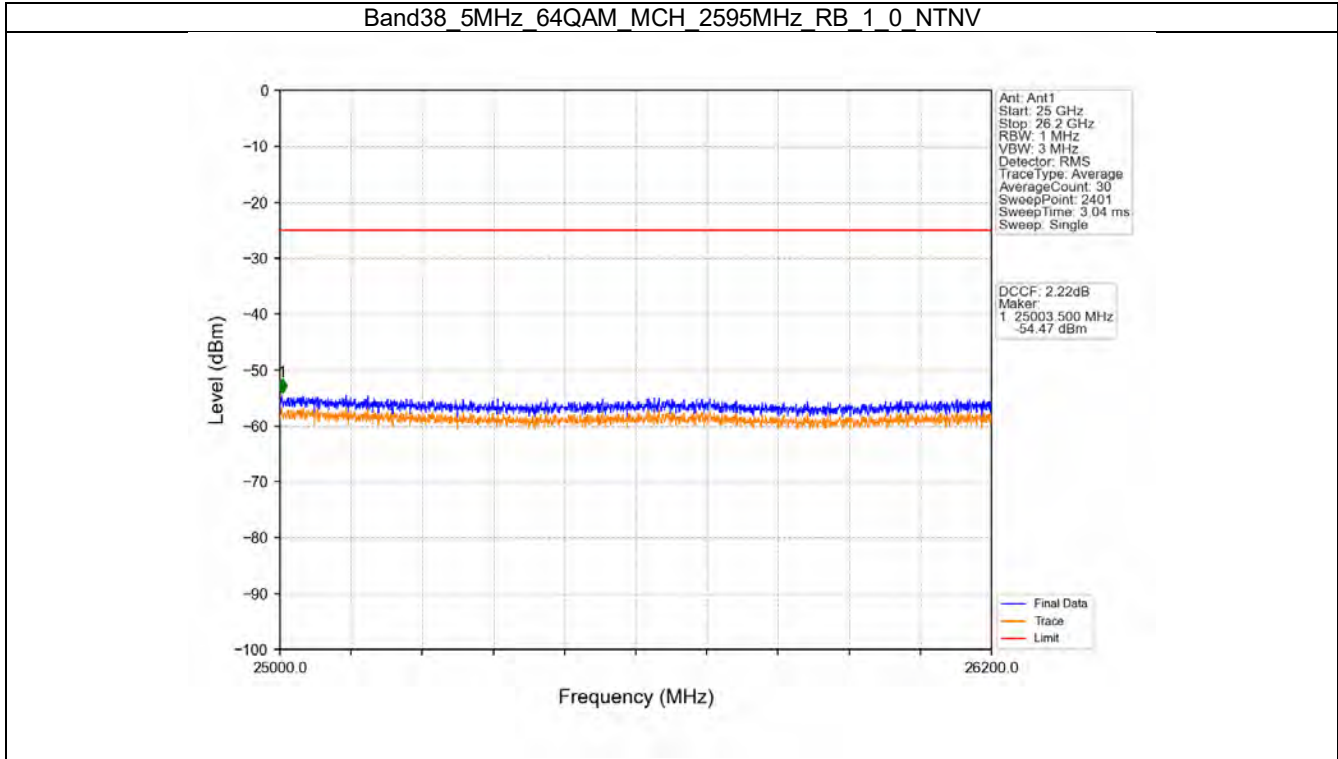
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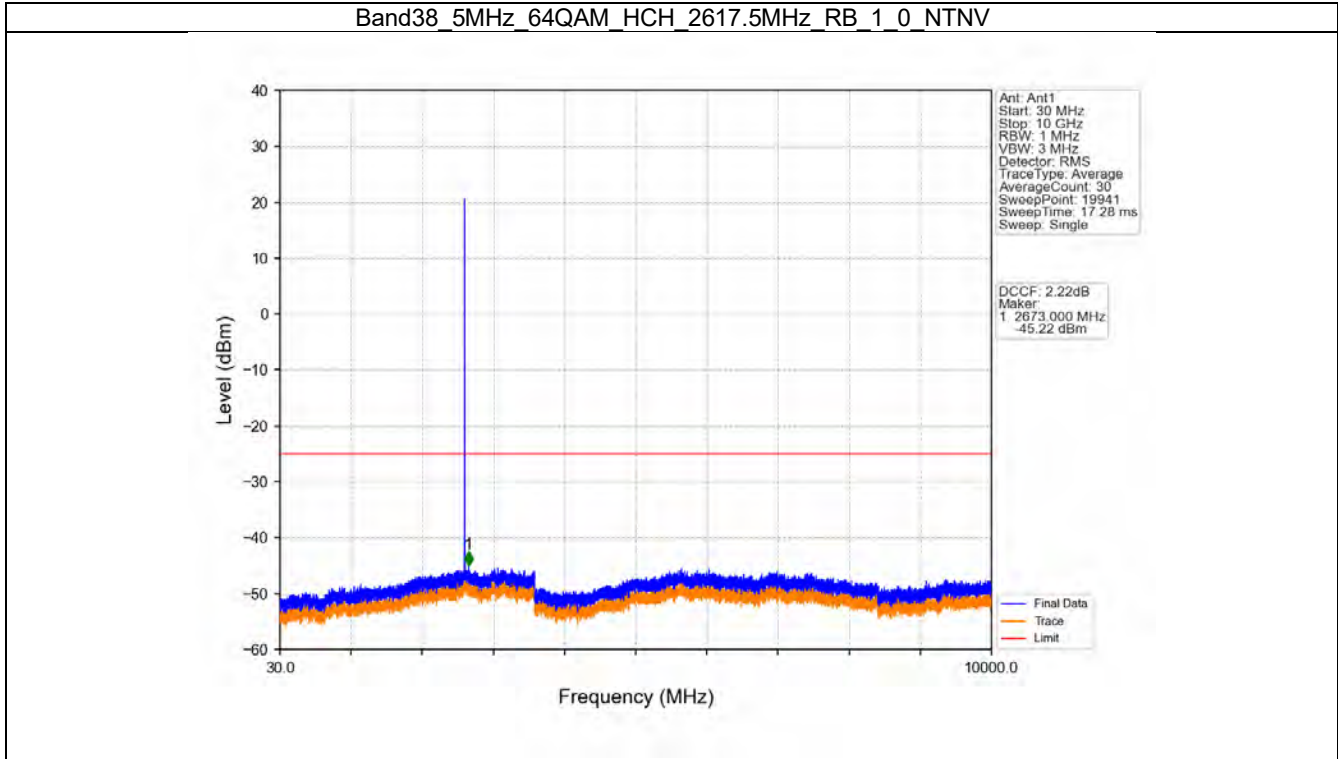
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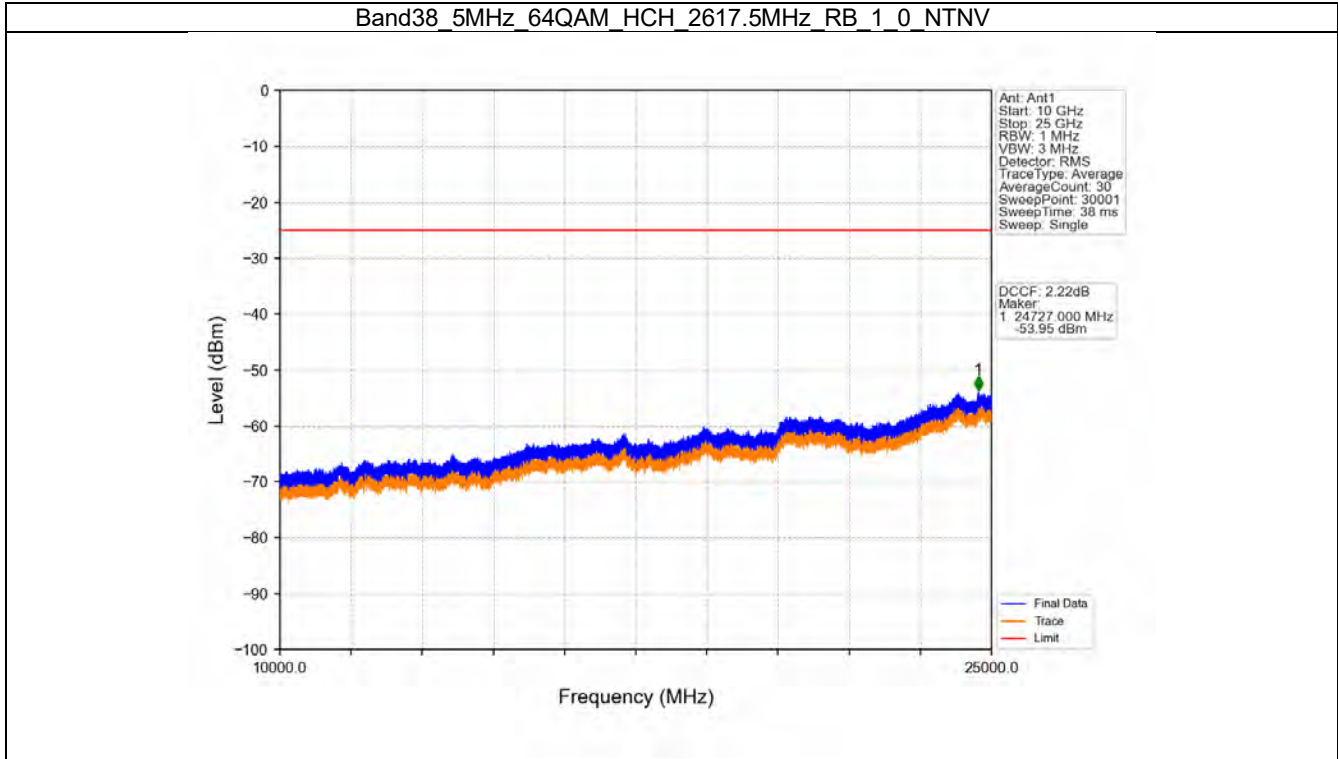
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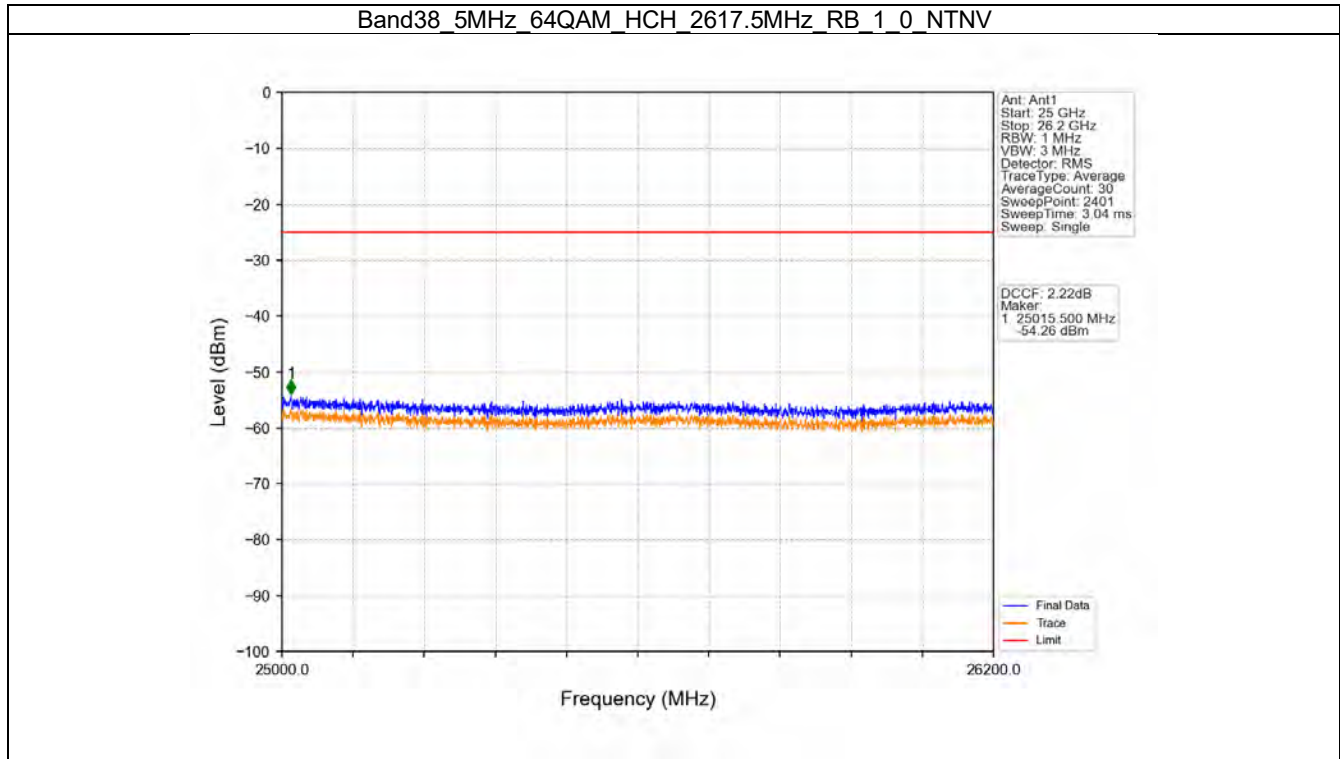
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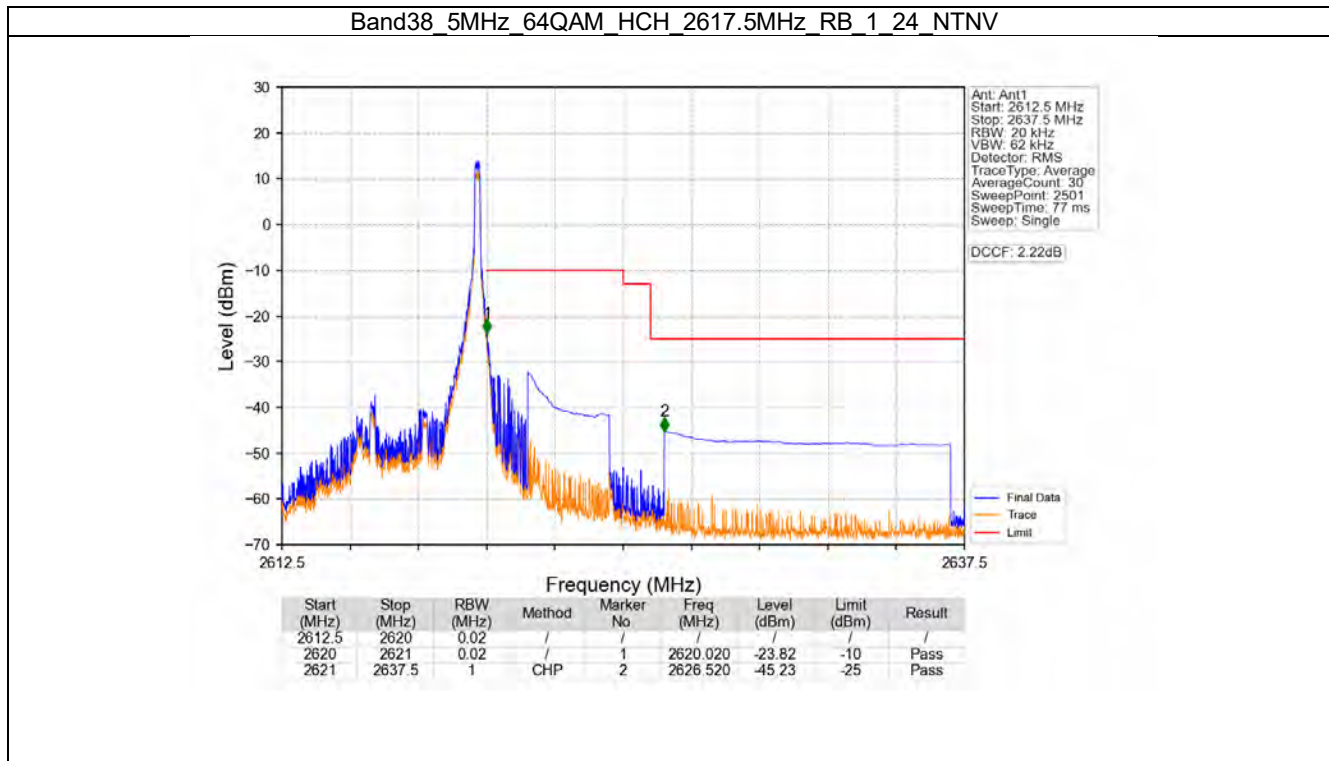


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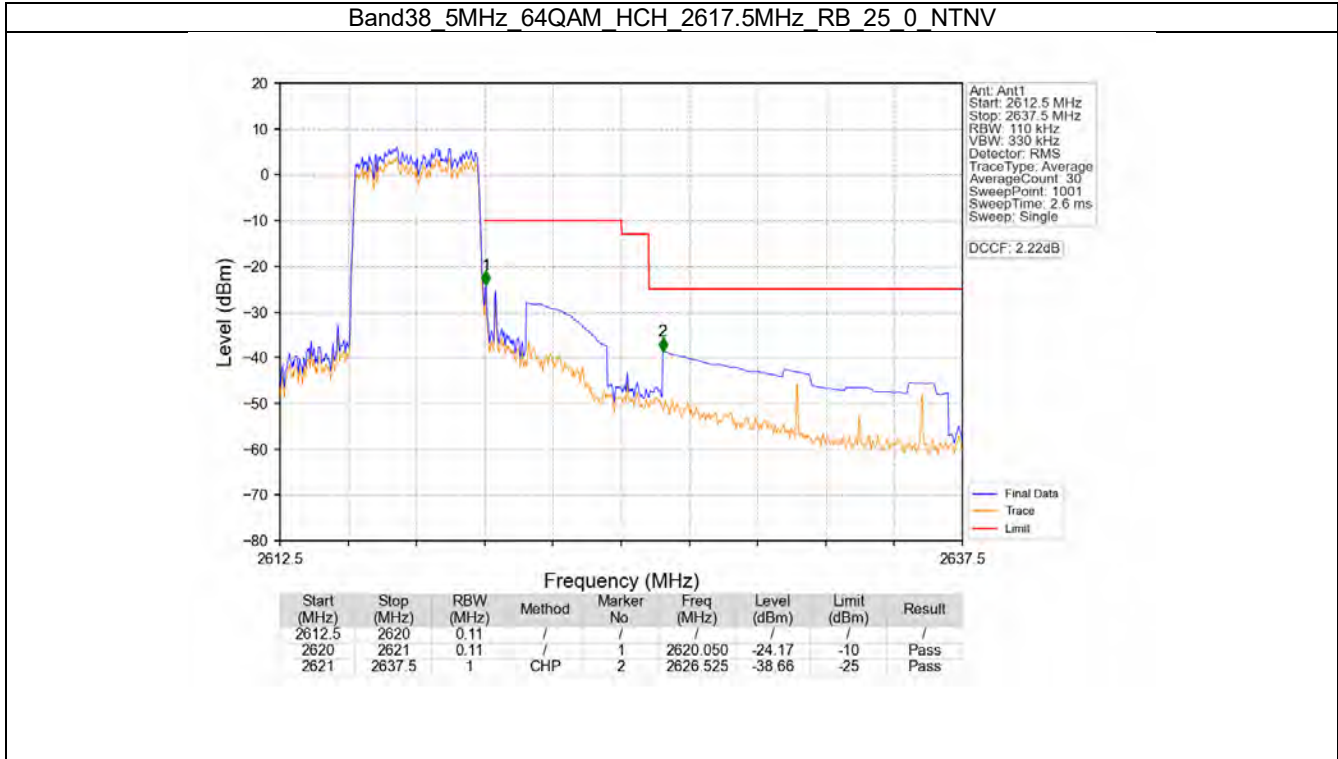
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5.2 B38_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2615	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
16QAM	2575	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2615	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
64QAM	2575	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	2615	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	



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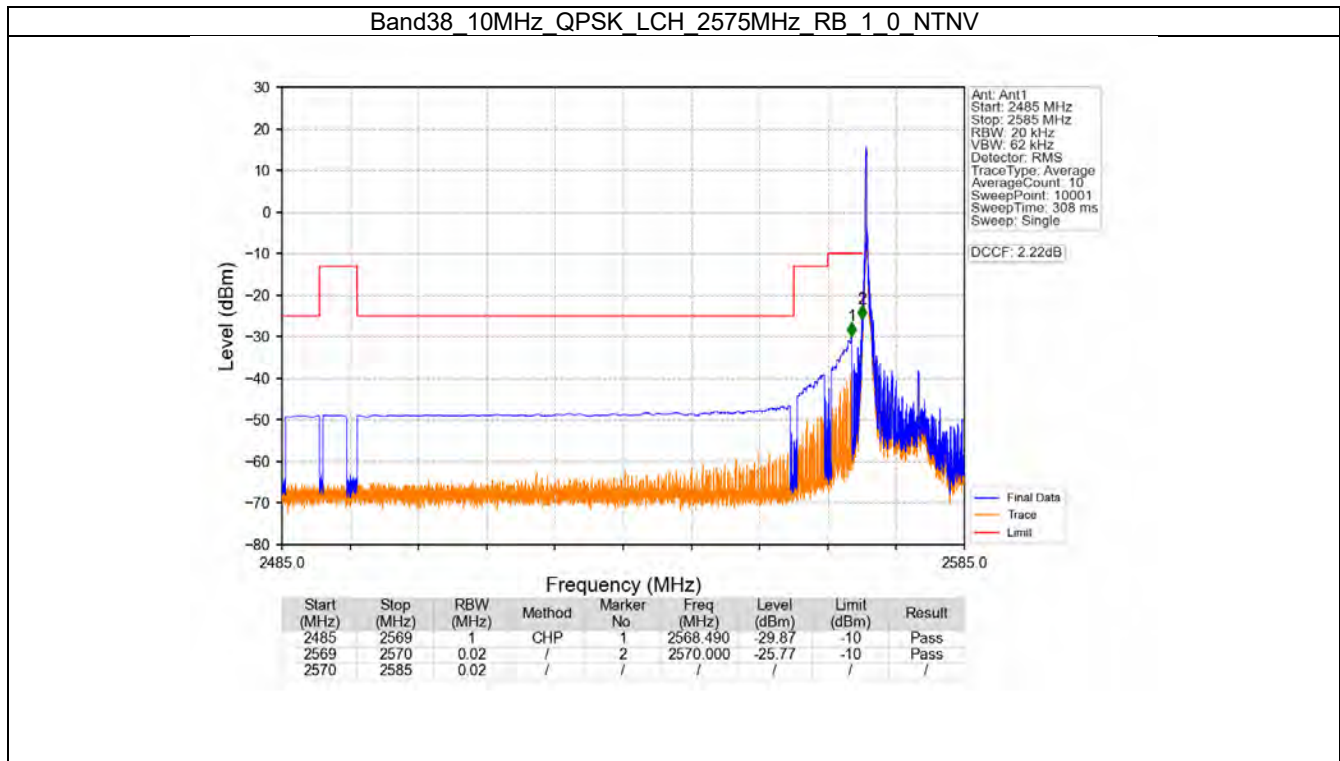
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5.2.2 Test Graph



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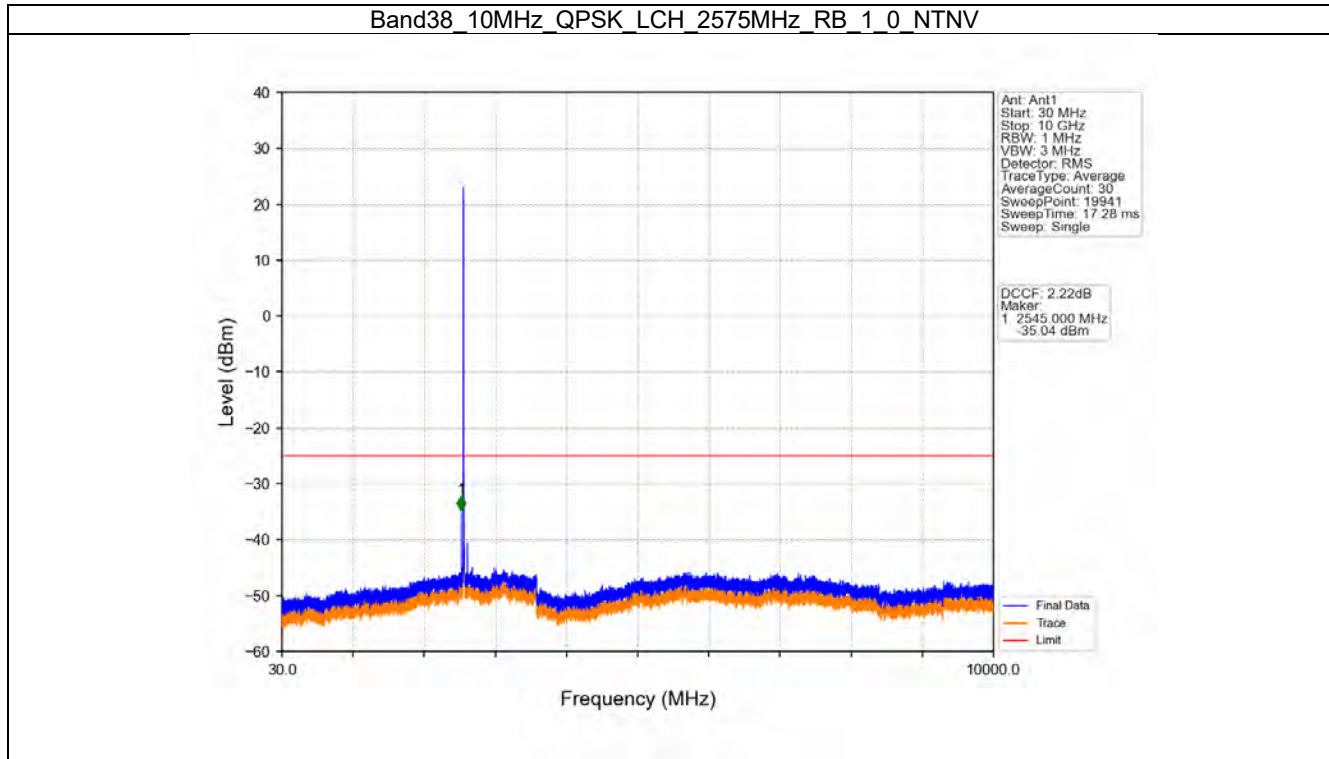


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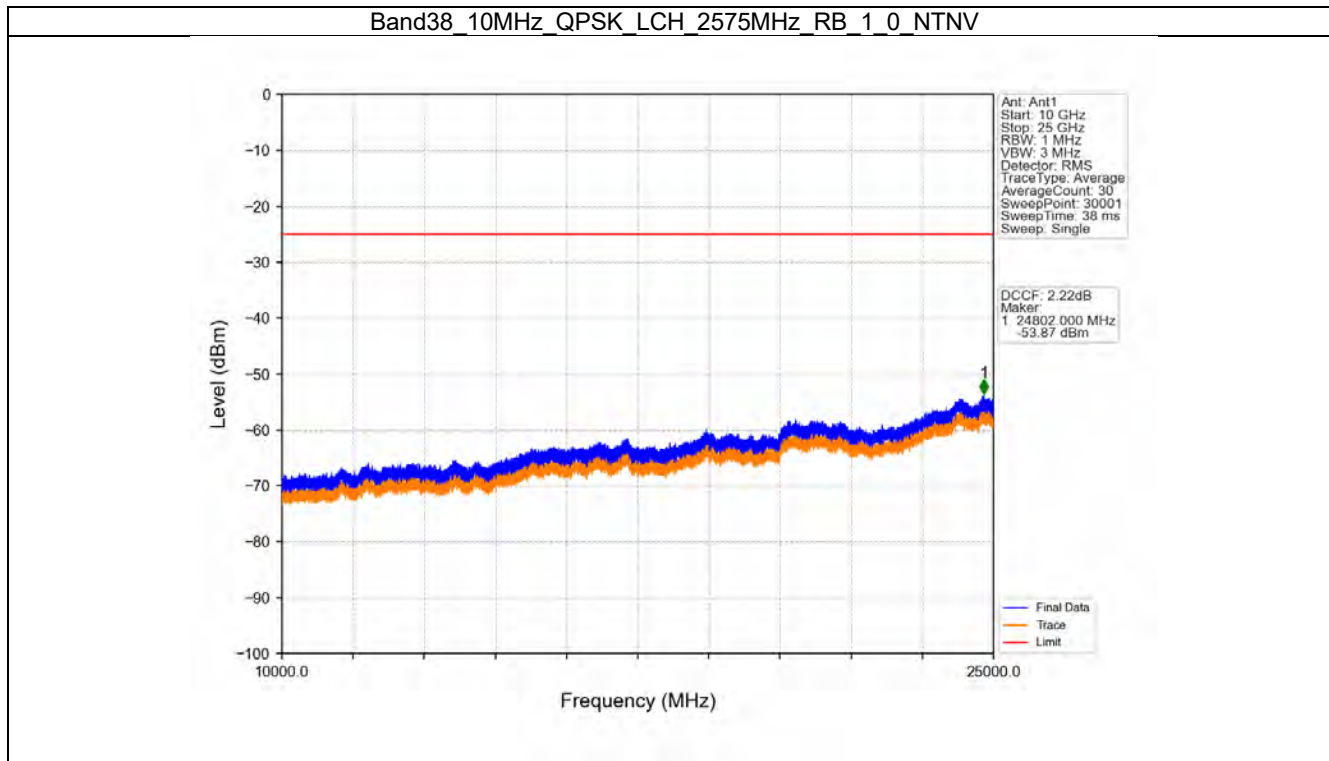
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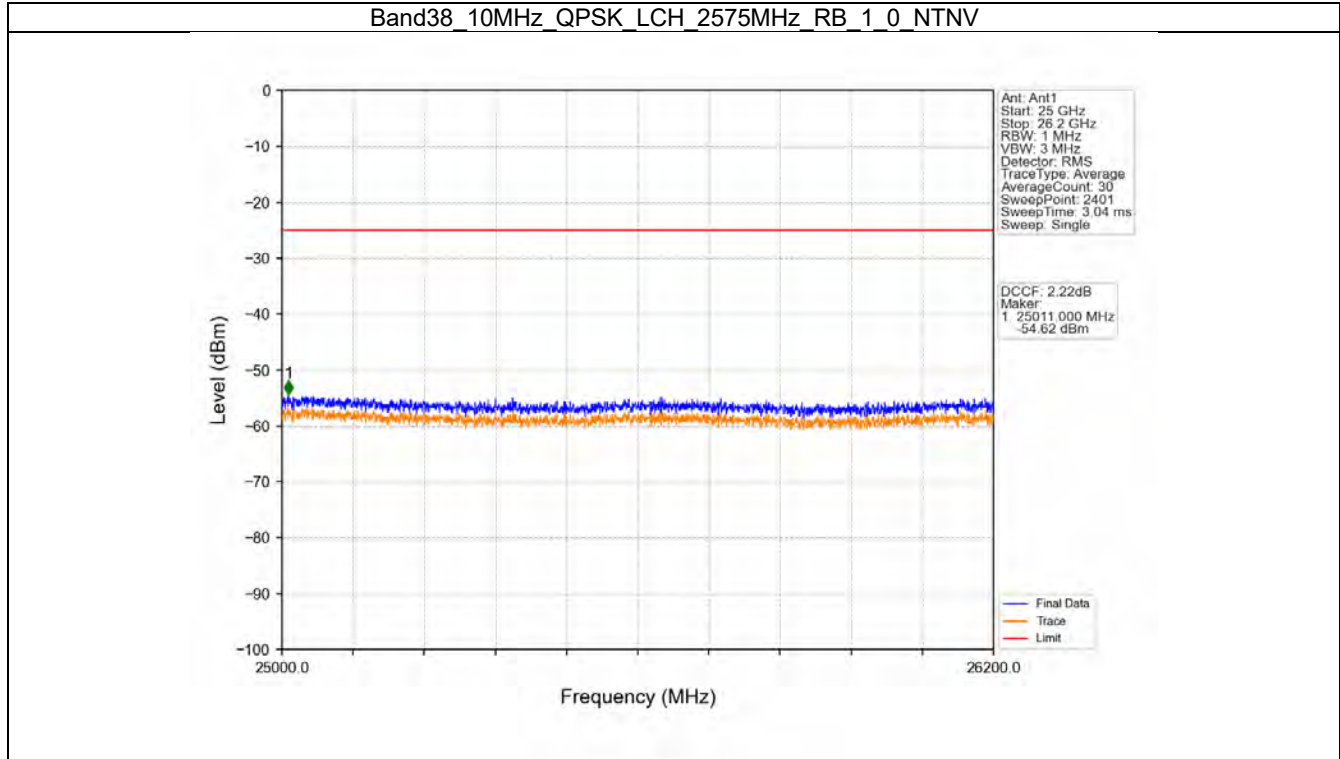
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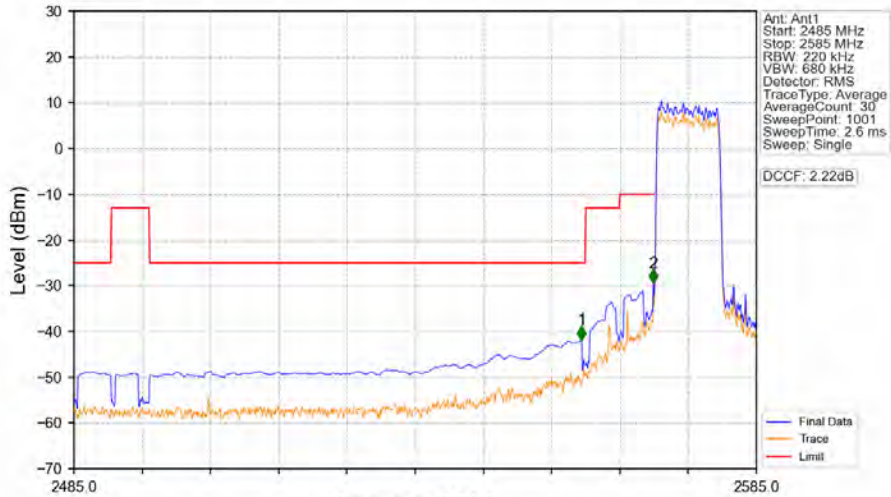
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Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.400	-41.89	-25	Pass
2569	2570	0.22	/	2	2569.900	-29.45	-10	Pass
2570	2585	0.22	/	/	/	/	/	/



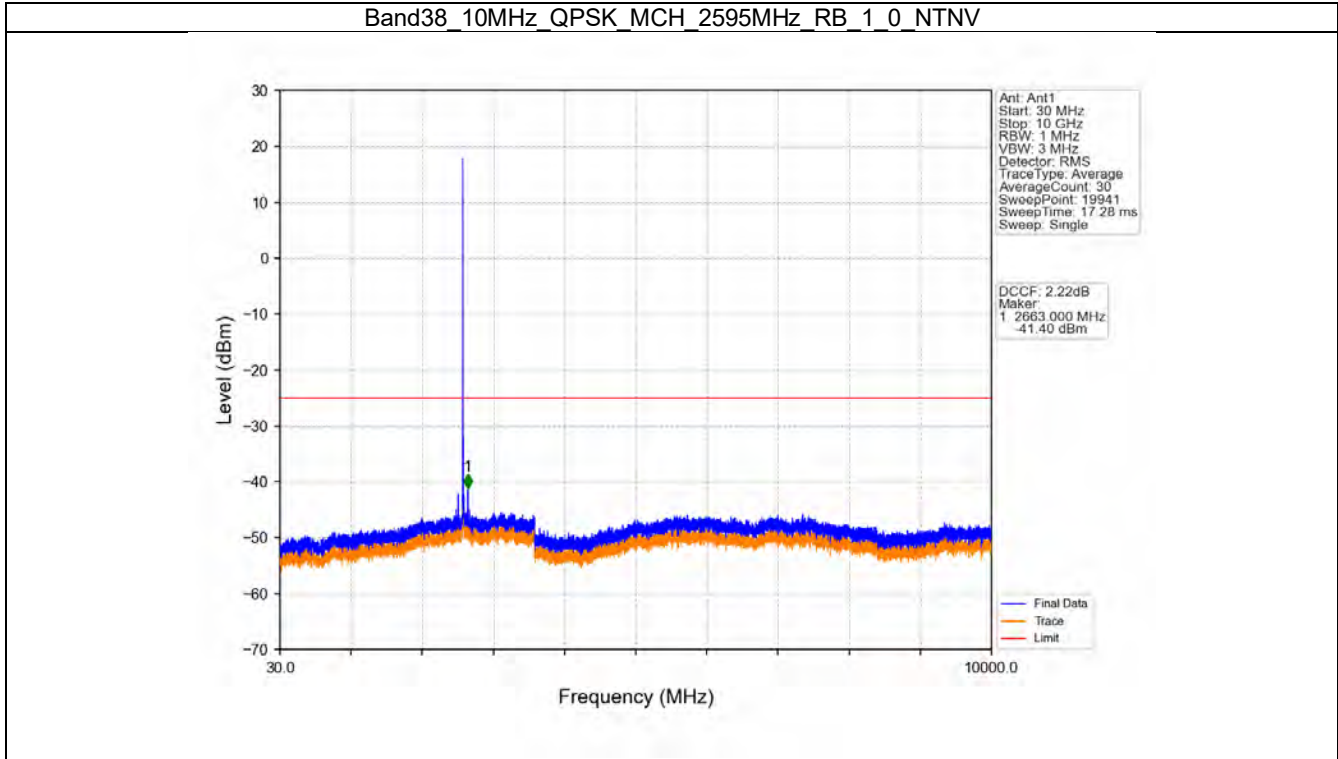
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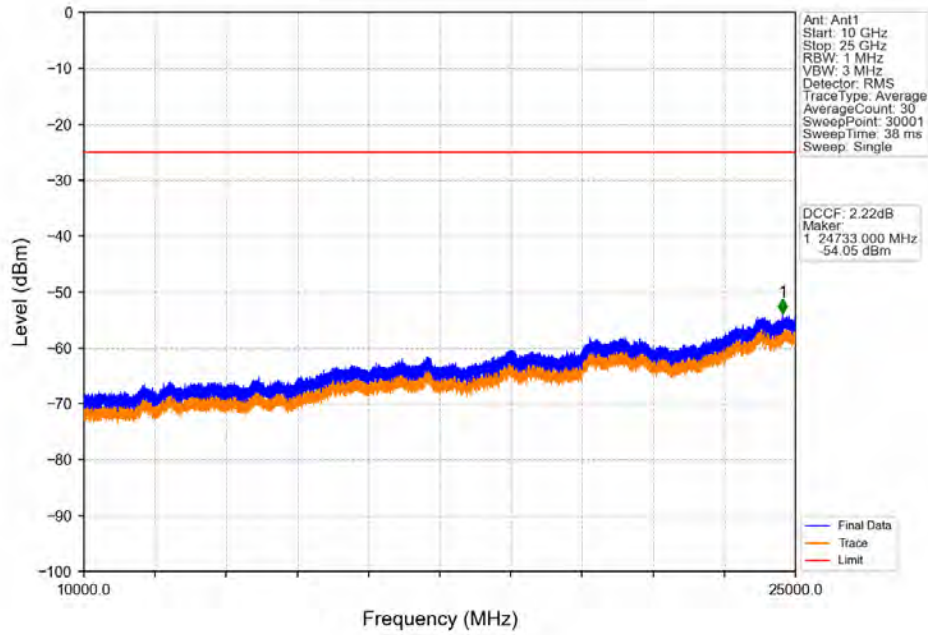
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Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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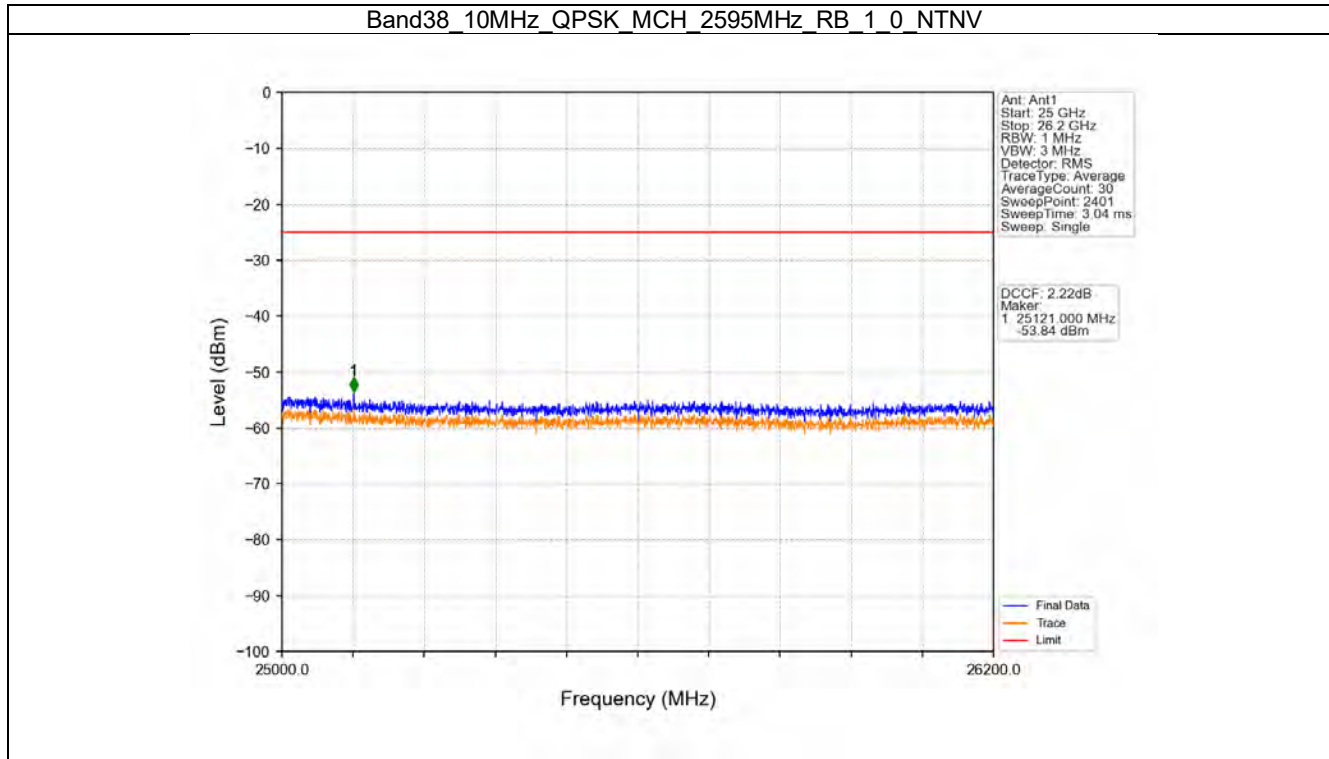


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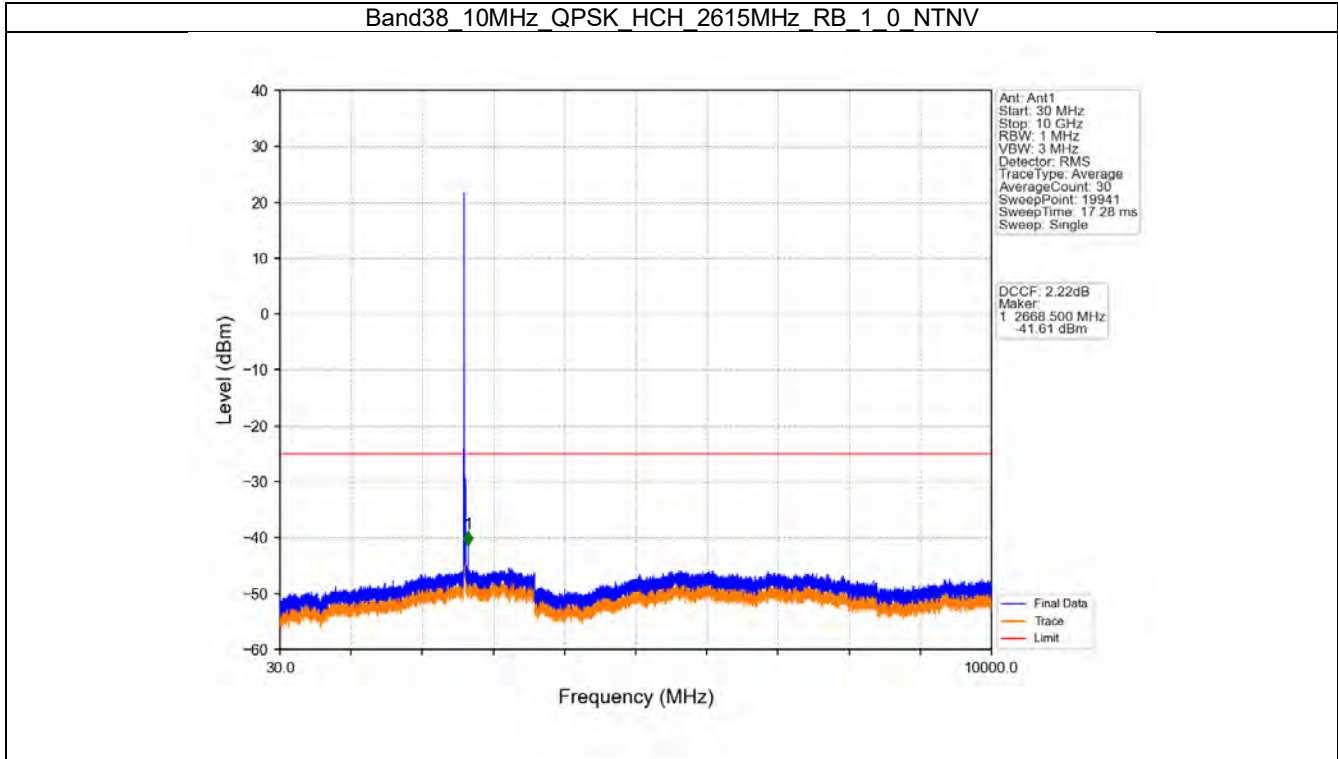
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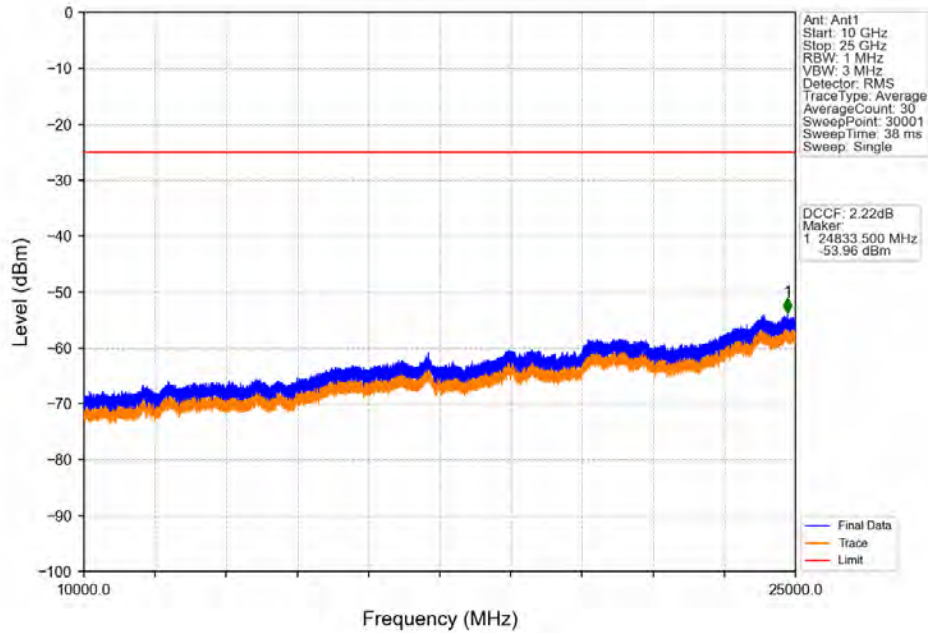
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Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



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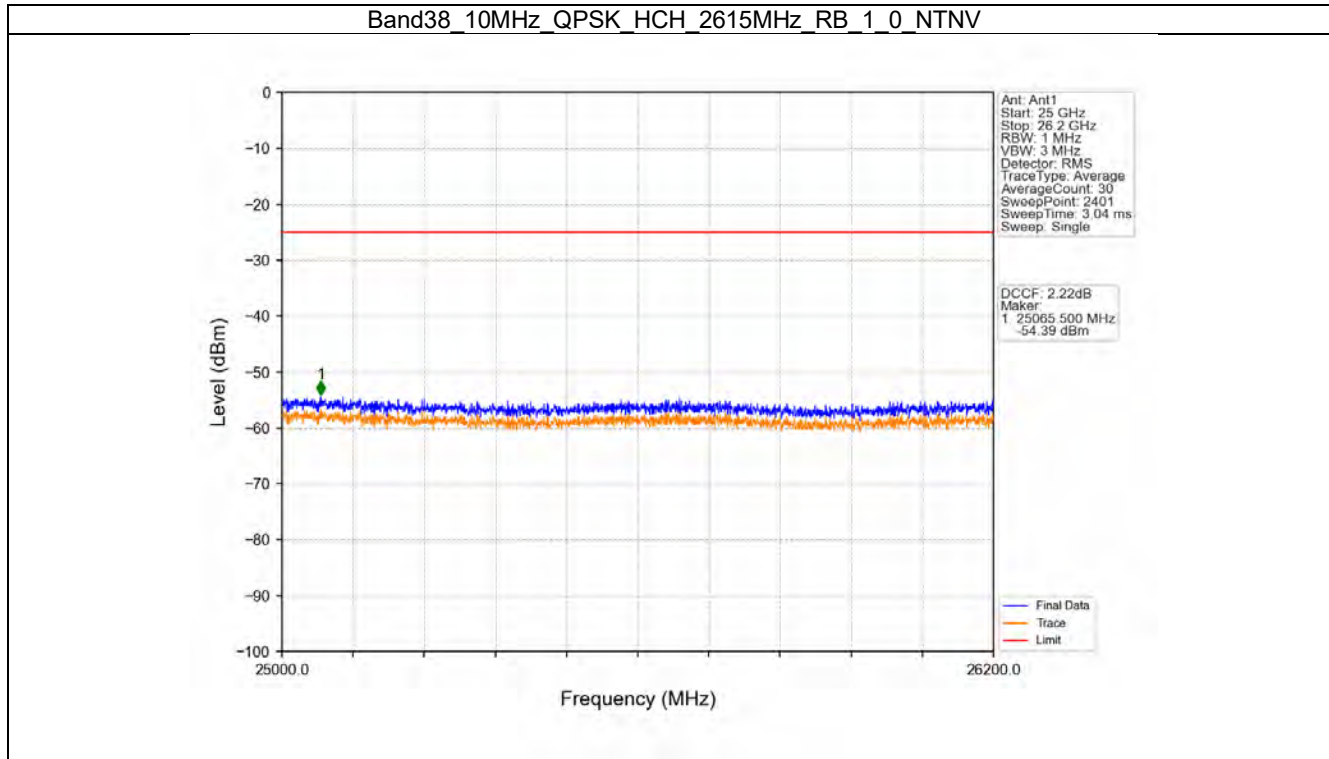


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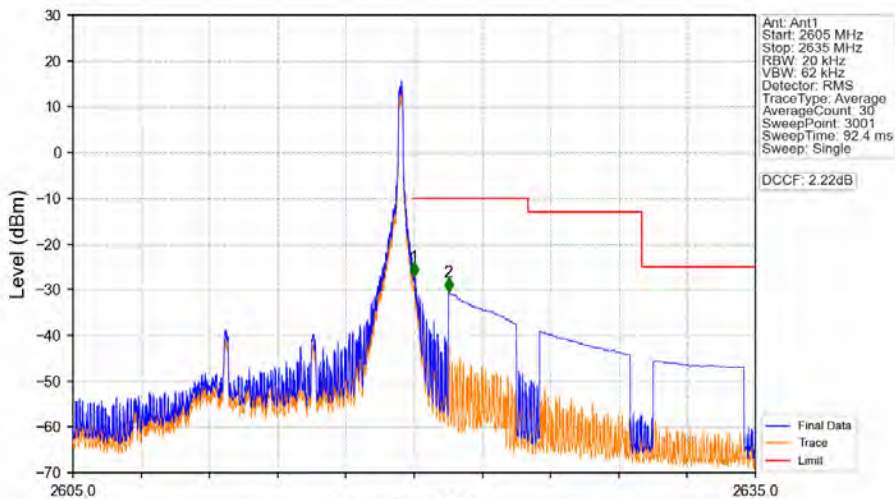
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Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	/	1	2620.000	-27.12	-10	Pass
2620	2621	0.02	/	1	2620.000	-27.12	-10	Pass
2621	2635	1	CHP	2	2621.510	-30.46	-10	Pass



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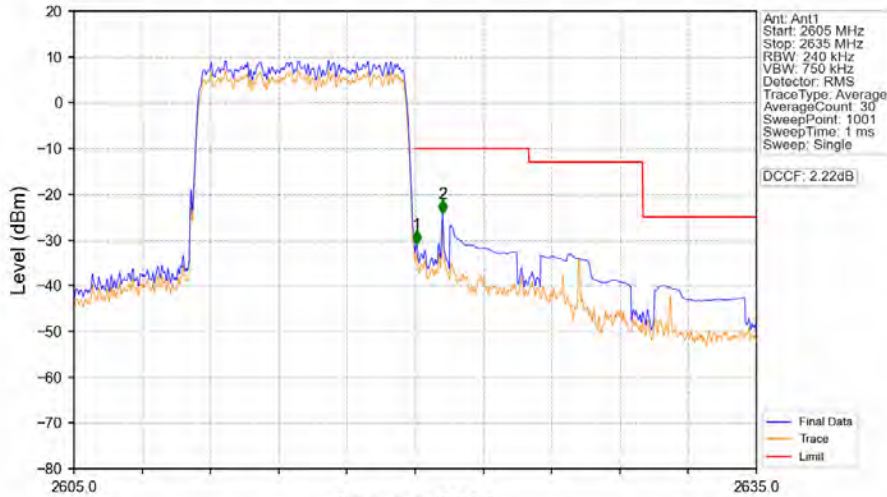
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Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.24	/	1	2620.060	-31.03	-10	Pass
2620	2621	0.24	CHP	2	2621.200	-24.30	-10	Pass



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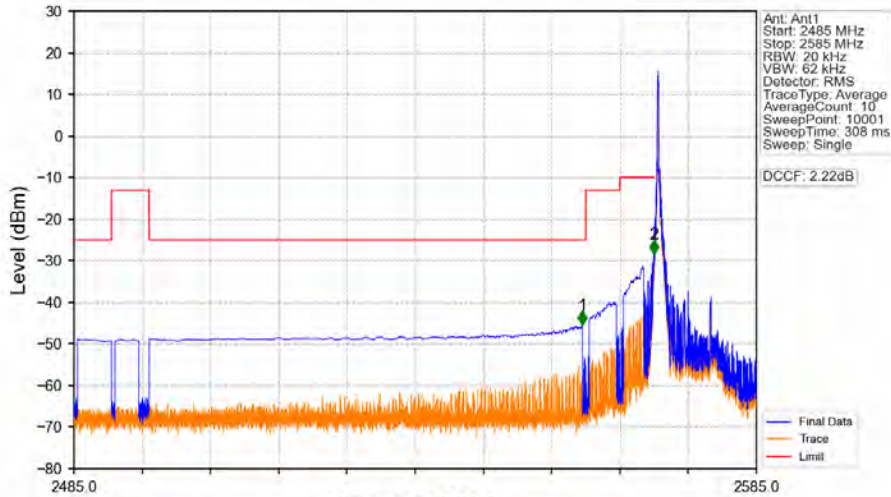
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Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.490	-45.54	-25	Pass
2569	2570	0.02	/	2	2569.970	-28.35	-10	Pass
2570	2585	0.02	/	/	/	/	/	/



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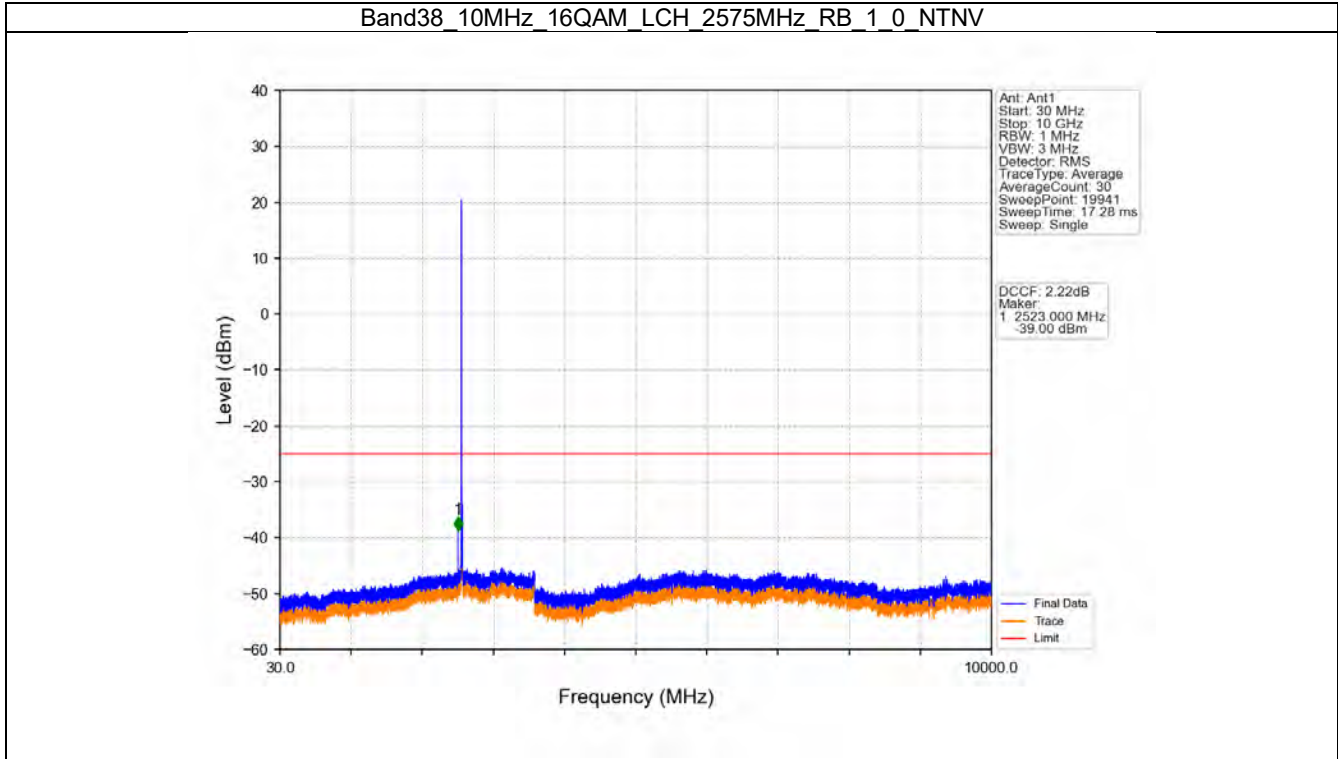
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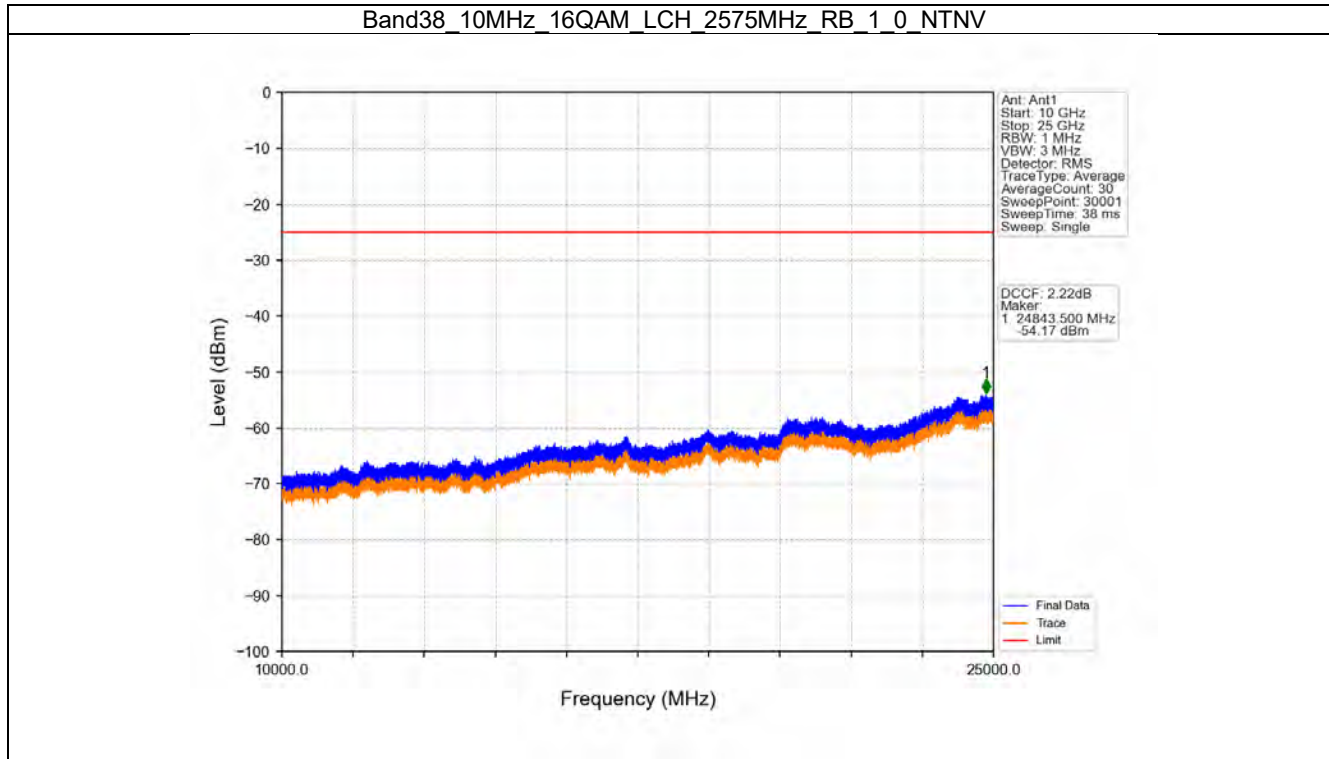


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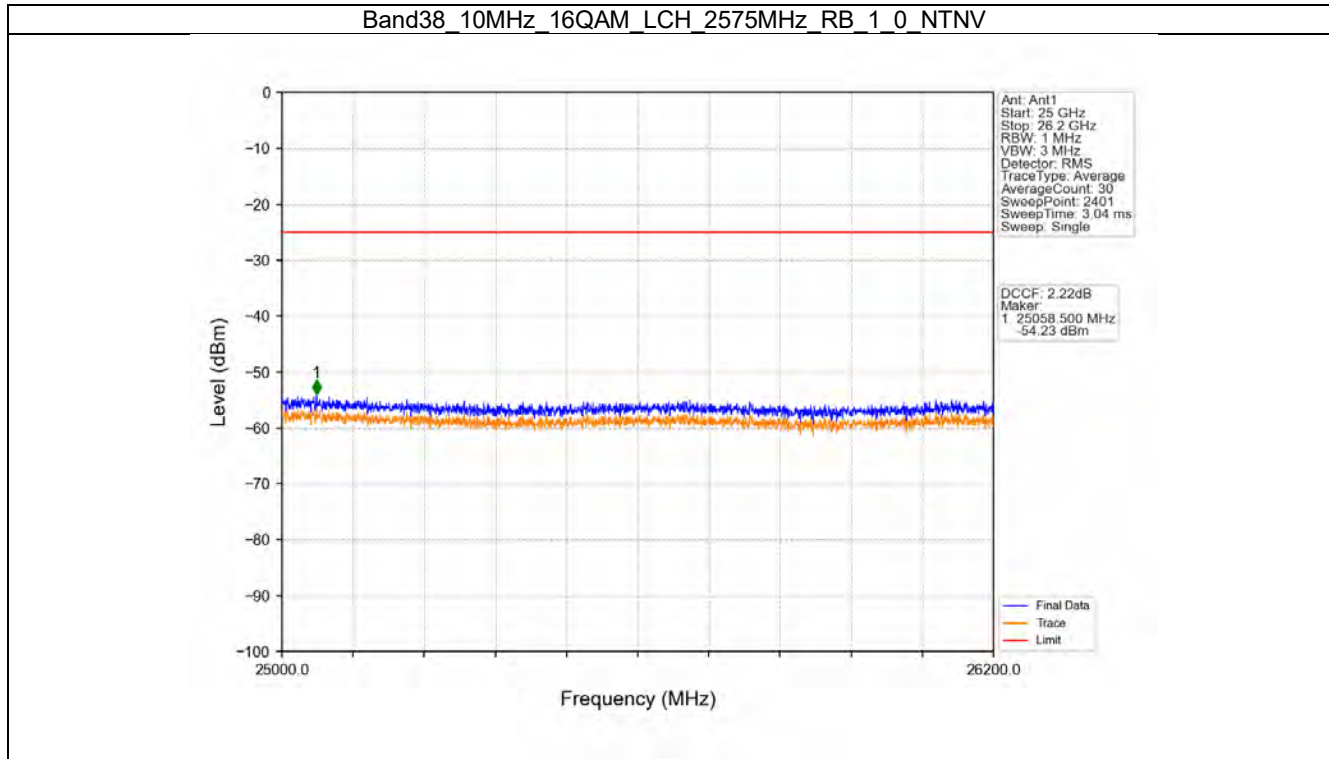


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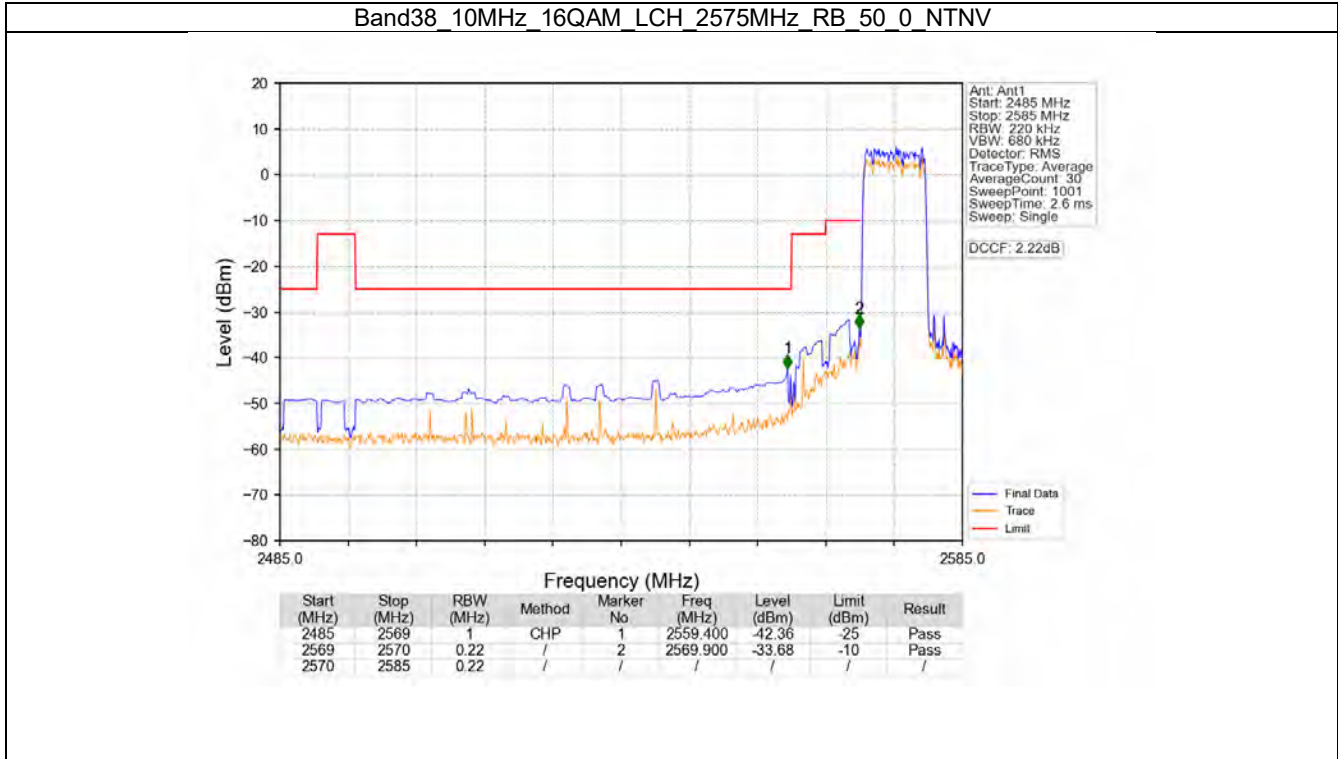
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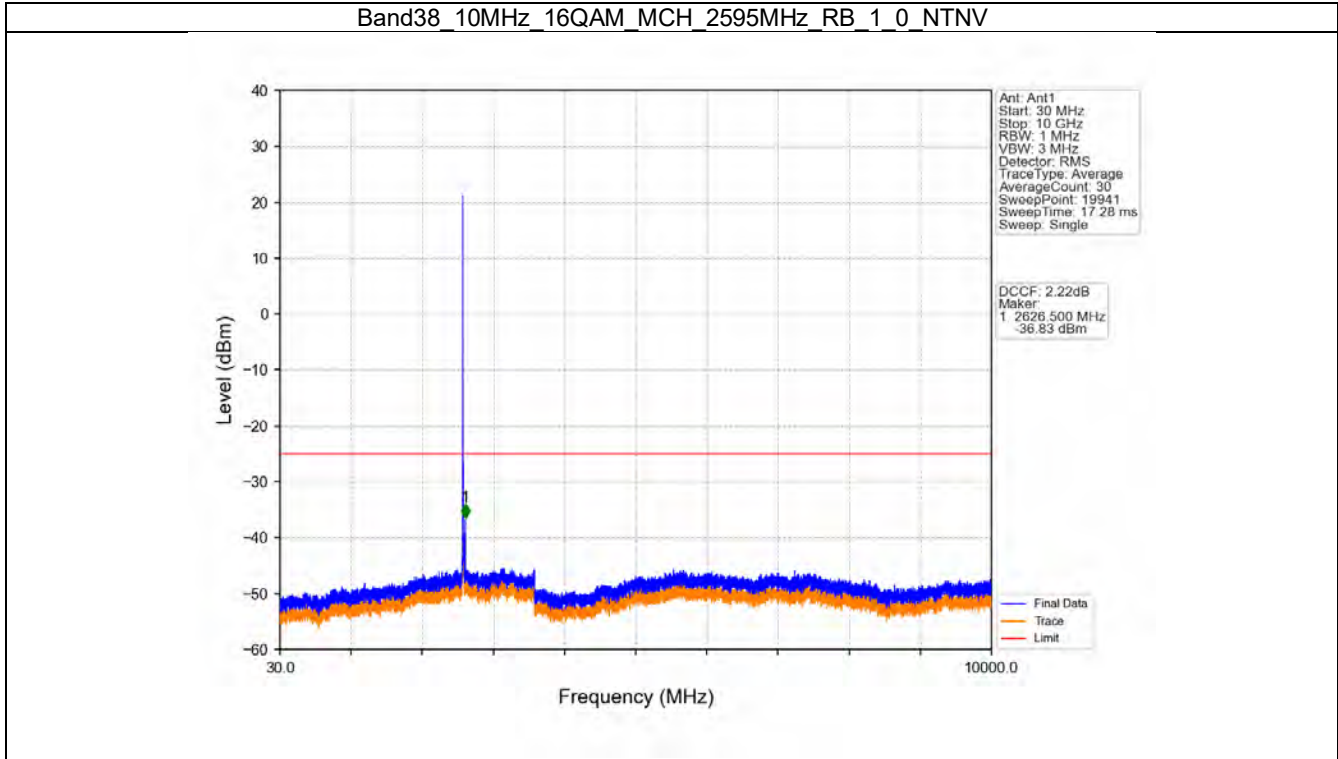
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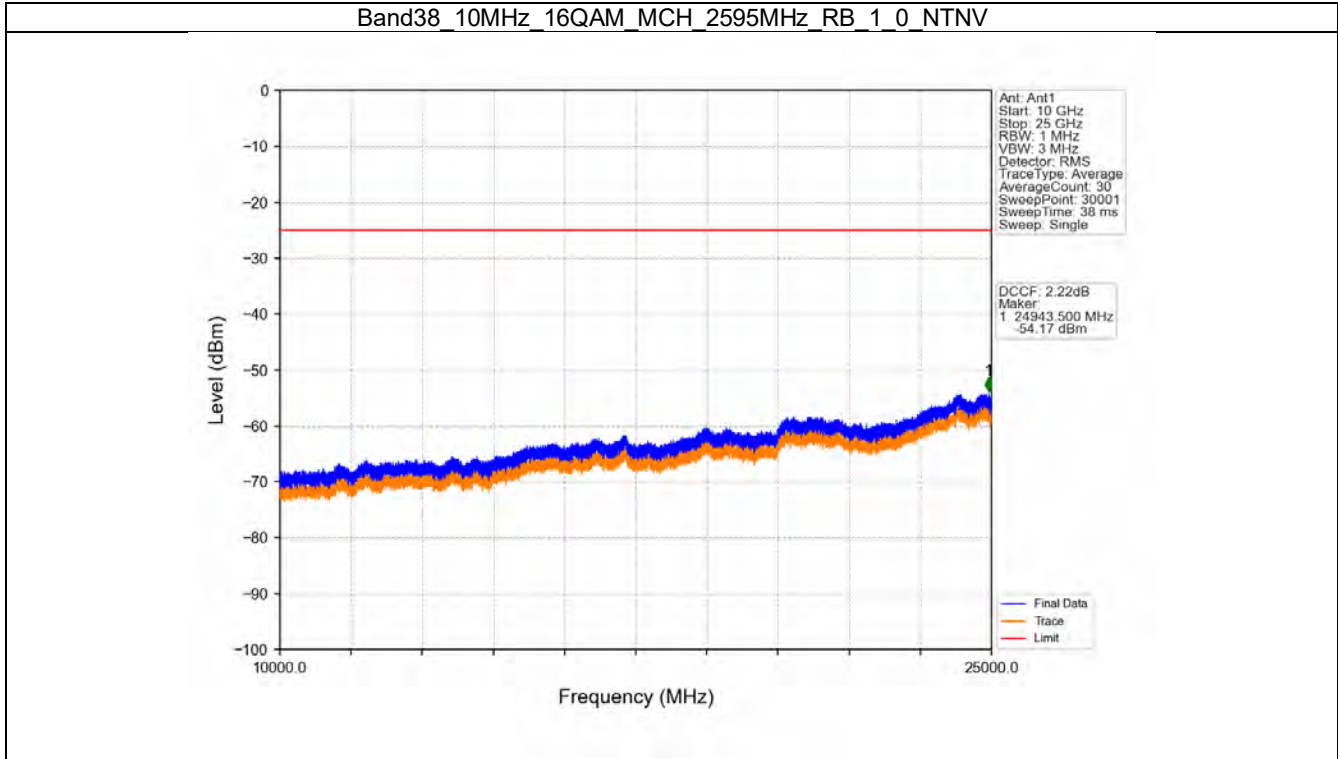
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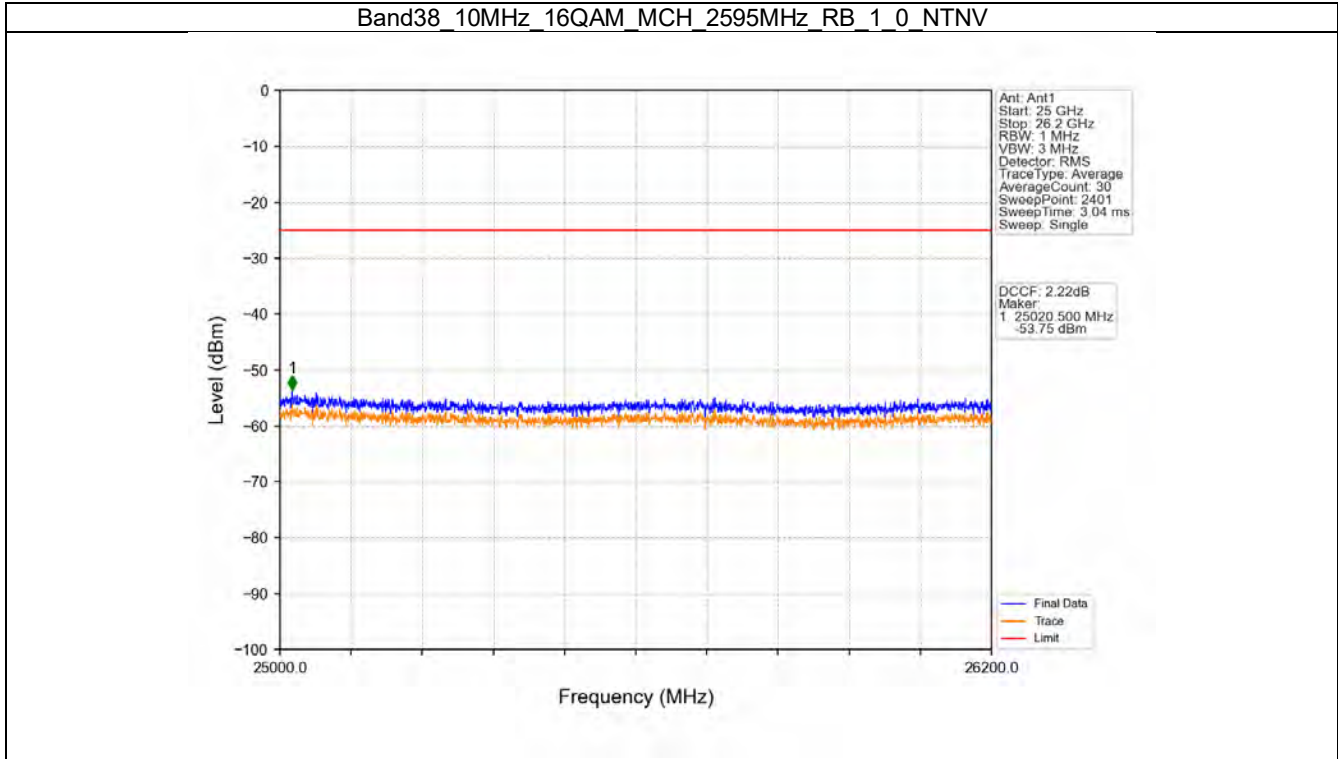
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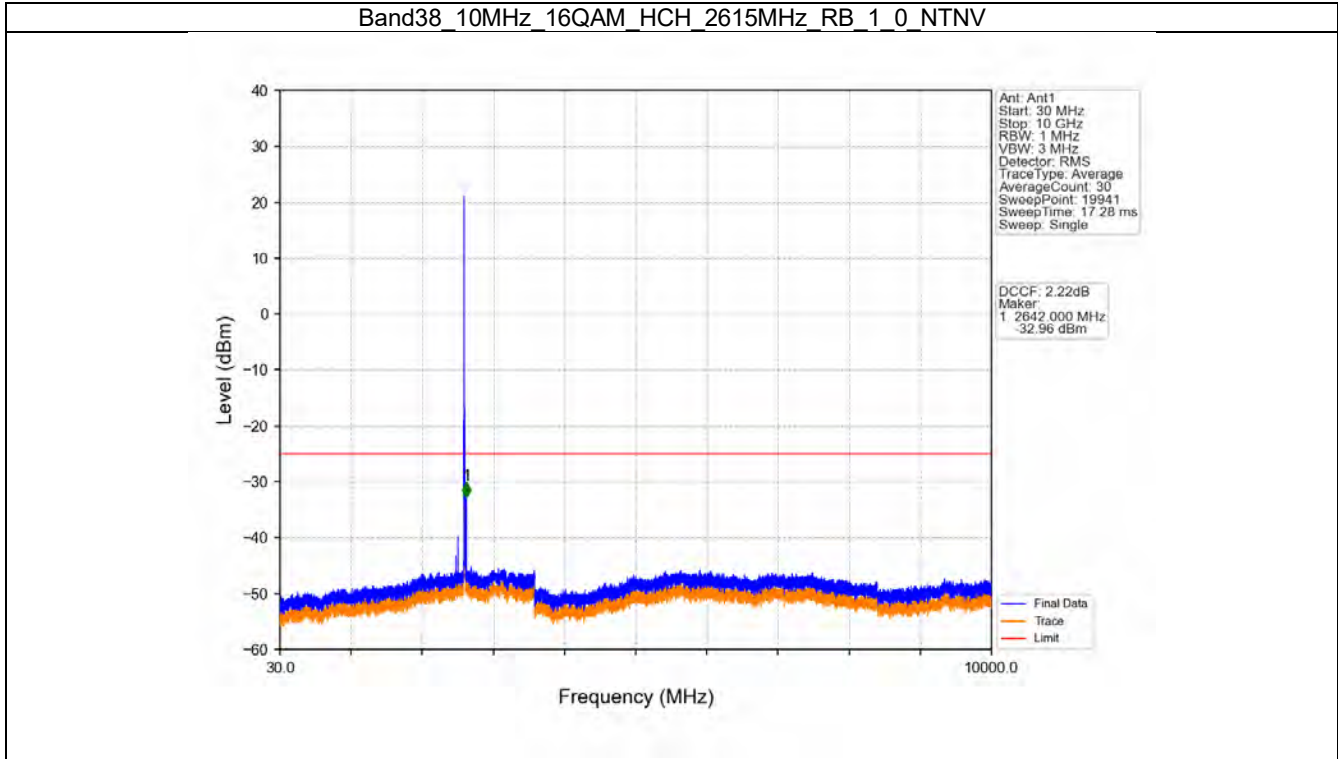
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 Shenzhen Branch Wireless Laboratory

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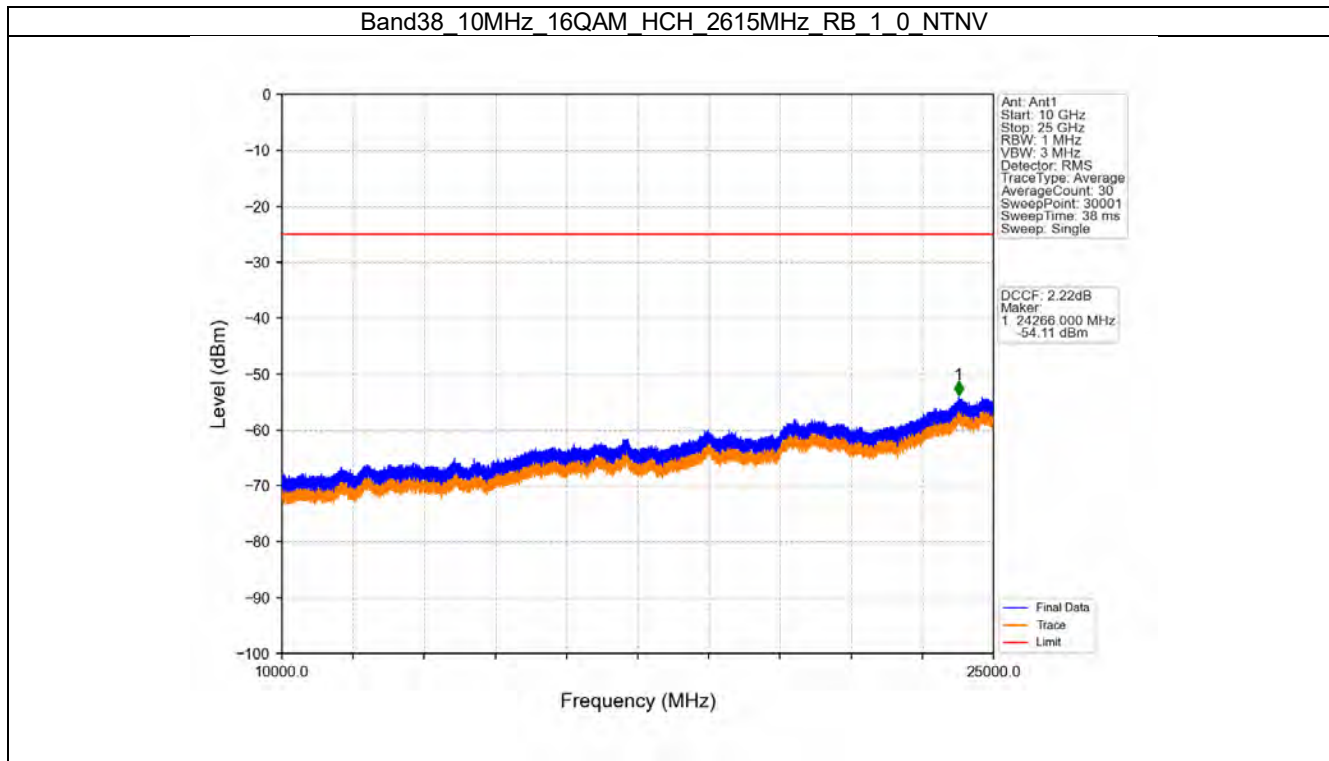
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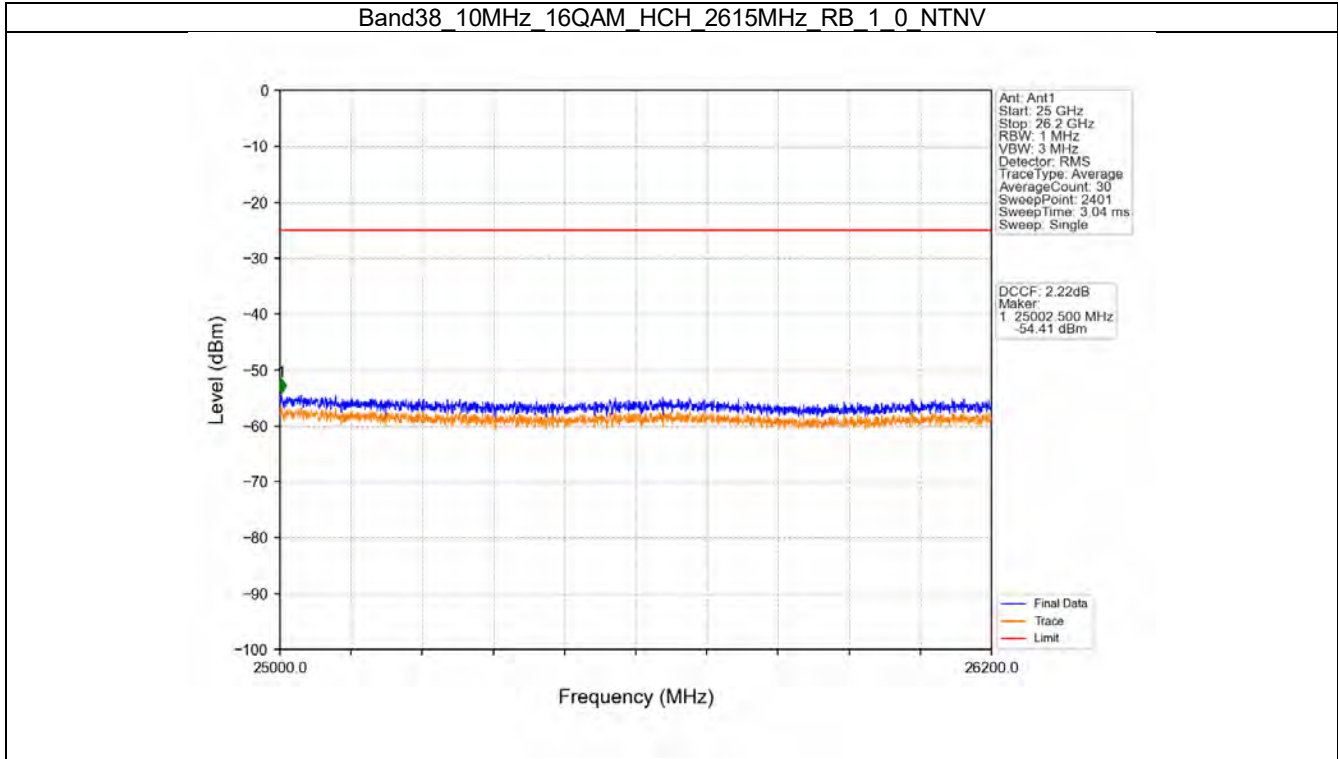
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