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Appendix B.13

LTE Band 38



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B38_5MHz_EIRP

1.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2572.5	1	0	24.74	1.71	26.45	<=33.01	Pass		
			13	25.04	1.71	26.75	<=33.01	Pass		
			24	24.77	1.71	26.48	<=33.01	Pass		
		12	0	25.04	1.71	26.75	<=33.01	Pass		
			6	25.41	1.71	27.12	<=33.01	Pass		
			13	25.39	1.71	27.10	<=33.01	Pass		
		25	0	25.28	1.71	26.99	<=33.01	Pass		
		2595	1	0	24.69	1.71	26.40	<=33.01	Pass	
				13	25.49	1.71	27.20	<=33.01	Pass	
	24			24.87	1.71	26.58	<=33.01	Pass		
	12		0	25.17	1.71	26.88	<=33.01	Pass		
			6	25.47	1.71	27.18	<=33.01	Pass		
			13	25.37	1.71	27.08	<=33.01	Pass		
	25		0	25.39	1.71	27.10	<=33.01	Pass		
	2617.5		1	0	25.29	1.71	27.00	<=33.01	Pass	
				13	25.25	1.71	26.96	<=33.01	Pass	
		24		25.21	1.71	26.92	<=33.01	Pass		
		12	0	25.35	1.71	27.06	<=33.01	Pass		
			6	25.32	1.71	27.03	<=33.01	Pass		
			13	25.31	1.71	27.02	<=33.01	Pass		
		25	0	25.36	1.71	27.07	<=33.01	Pass		
		16QAM	2572.5	1	0	24.48	1.71	26.19	<=33.01	Pass
					13	25.03	1.71	26.74	<=33.01	Pass
	24				24.79	1.71	26.50	<=33.01	Pass	
12	0			24.45	1.71	26.16	<=33.01	Pass		
	6			24.38	1.71	26.09	<=33.01	Pass		
	13			24.25	1.71	25.96	<=33.01	Pass		
25	0			24.42	1.71	26.13	<=33.01	Pass		
2595	1			0	24.64	1.71	26.35	<=33.01	Pass	
				13	24.92	1.71	26.63	<=33.01	Pass	
			24	24.92	1.71	26.63	<=33.01	Pass		
	12		0	23.94	1.71	25.65	<=33.01	Pass		
			6	24.43	1.71	26.14	<=33.01	Pass		
			13	24.31	1.71	26.02	<=33.01	Pass		
	25		0	24.23	1.71	25.94	<=33.01	Pass		
	2617.5		1	0	24.73	1.71	26.44	<=33.01	Pass	
				13	25.12	1.71	26.83	<=33.01	Pass	



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Modulation	Frequency (MHz)	RB Allocation	Conducted Power (dBm)		Gain (dBi)	EIRP (dBm)		Verdict
			Size	Offset		Result	Limit	
64QAM	2572.5	12	24	24.46	1.71	26.17	<=33.01	Pass
			0	24.03	1.71	25.74	<=33.01	Pass
			6	24.36	1.71	26.07	<=33.01	Pass
		25	13	24.00	1.71	25.71	<=33.01	Pass
			0	23.91	1.71	25.62	<=33.01	Pass
			1	0	24.63	1.71	26.34	<=33.01
	2595	12	13	24.77	1.71	26.48	<=33.01	Pass
			24	24.44	1.71	26.15	<=33.01	Pass
			0	23.47	1.71	25.18	<=33.01	Pass
		25	6	23.35	1.71	25.06	<=33.01	Pass
			13	23.35	1.71	25.06	<=33.01	Pass
			0	23.43	1.71	25.14	<=33.01	Pass
	2617.5	12	0	24.61	1.71	26.32	<=33.01	Pass
			13	24.72	1.71	26.43	<=33.01	Pass
			24	24.78	1.71	26.49	<=33.01	Pass
		25	0	23.53	1.71	25.24	<=33.01	Pass
			6	23.52	1.71	25.23	<=33.01	Pass
			13	23.46	1.71	25.17	<=33.01	Pass
	2672.5	12	0	23.48	1.71	25.19	<=33.01	Pass
			0	24.65	1.71	26.36	<=33.01	Pass
			13	24.74	1.71	26.45	<=33.01	Pass
		25	24	24.61	1.71	26.32	<=33.01	Pass
			0	23.58	1.71	25.29	<=33.01	Pass
			6	23.51	1.71	25.22	<=33.01	Pass
25	13	23.55	1.71	25.26	<=33.01	Pass		
	0	23.57	1.71	25.28	<=33.01	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B38_10MHz_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	25.09	1.71	26.80	<=33.01	Pass
			25	25.38	1.71	27.09	<=33.01	Pass
			49	25.25	1.71	26.96	<=33.01	Pass
		25	0	24.50	1.71	26.21	<=33.01	Pass
			13	25.43	1.71	27.14	<=33.01	Pass
			25	25.12	1.71	26.83	<=33.01	Pass
	2595	1	0	24.65	1.71	26.36	<=33.01	Pass
			0	25.38	1.71	27.09	<=33.01	Pass
			25	25.48	1.71	27.19	<=33.01	Pass
		25	49	25.42	1.71	27.13	<=33.01	Pass
			0	24.67	1.71	26.38	<=33.01	Pass



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16QAM	2615	50	13	25.42	1.71	27.13	<=33.01	Pass	
			25	25.22	1.71	26.93	<=33.01	Pass	
			0	24.58	1.71	26.29	<=33.01	Pass	
		1	0	24.85	1.71	26.56	<=33.01	Pass	
			25	25.25	1.71	26.96	<=33.01	Pass	
			49	25.18	1.71	26.89	<=33.01	Pass	
	25	0	24.89	1.71	26.60	<=33.01	Pass		
		13	25.22	1.71	26.93	<=33.01	Pass		
		25	25.28	1.71	26.99	<=33.01	Pass		
	50	0	24.54	1.71	26.25	<=33.01	Pass		
	16QAM	2575	1	0	24.72	1.71	26.43	<=33.01	Pass
				25	25.27	1.71	26.98	<=33.01	Pass
49				25.02	1.71	26.73	<=33.01	Pass	
25			0	24.12	1.71	25.83	<=33.01	Pass	
			13	24.25	1.71	25.96	<=33.01	Pass	
			25	24.12	1.71	25.83	<=33.01	Pass	
50			0	24.68	1.71	26.39	<=33.01	Pass	
2595			1	0	24.67	1.71	26.38	<=33.01	Pass
				25	24.89	1.71	26.60	<=33.01	Pass
		49		24.97	1.71	26.68	<=33.01	Pass	
		25	0	24.18	1.71	25.89	<=33.01	Pass	
			13	24.08	1.71	25.79	<=33.01	Pass	
			25	24.32	1.71	26.03	<=33.01	Pass	
50		0	24.03	1.71	25.74	<=33.01	Pass		
2615		1	0	25.05	1.71	26.76	<=33.01	Pass	
			25	25.08	1.71	26.79	<=33.01	Pass	
			49	24.71	1.71	26.42	<=33.01	Pass	
		25	0	24.03	1.71	25.74	<=33.01	Pass	
			13	24.44	1.71	26.15	<=33.01	Pass	
			25	23.97	1.71	25.68	<=33.01	Pass	
50		0	24.47	1.71	26.18	<=33.01	Pass		
64QAM		2575	1	0	24.61	1.71	26.32	<=33.01	Pass
				25	24.53	1.71	26.24	<=33.01	Pass
				49	24.48	1.71	26.19	<=33.01	Pass
	25		0	23.43	1.71	25.14	<=33.01	Pass	
			13	23.43	1.71	25.14	<=33.01	Pass	
			25	23.38	1.71	25.09	<=33.01	Pass	
	50		0	23.61	1.71	25.32	<=33.01	Pass	
	2595		1	0	24.74	1.71	26.45	<=33.01	Pass
				25	24.76	1.71	26.47	<=33.01	Pass
		49		24.75	1.71	26.46	<=33.01	Pass	
		25	0	23.55	1.71	25.26	<=33.01	Pass	
			13	23.49	1.71	25.20	<=33.01	Pass	
			25	23.51	1.71	25.22	<=33.01	Pass	
	50	0	23.64	1.71	25.35	<=33.01	Pass		
	2615	1	0	24.72	1.71	26.43	<=33.01	Pass	
			25	24.71	1.71	26.42	<=33.01	Pass	
			49	24.58	1.71	26.29	<=33.01	Pass	



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		25	0	23.63	1.71	25.34	<=33.01	Pass
			13	23.63	1.71	25.34	<=33.01	Pass
			25	23.51	1.71	25.22	<=33.01	Pass
		50	0	23.72	1.71	25.43	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.3 B38_15MHz_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2577.5	1	0	25.34	1.71	27.05	<=33.01	Pass		
			38	25.17	1.71	26.88	<=33.01	Pass		
			74	25.23	1.71	26.94	<=33.01	Pass		
		36	0	24.55	1.71	26.26	<=33.01	Pass		
			18	24.51	1.71	26.22	<=33.01	Pass		
			39	25.40	1.71	27.11	<=33.01	Pass		
		75	0	24.59	1.71	26.30	<=33.01	Pass		
		2595	1	0	25.33	1.71	27.04	<=33.01	Pass	
				38	25.41	1.71	27.12	<=33.01	Pass	
	74			25.18	1.71	26.89	<=33.01	Pass		
	36		0	24.81	1.71	26.52	<=33.01	Pass		
			18	25.29	1.71	27.00	<=33.01	Pass		
			39	25.43	1.71	27.14	<=33.01	Pass		
	75	0	25.21	1.71	26.92	<=33.01	Pass			
	2612.5	1	0	25.47	1.71	27.18	<=33.01	Pass		
			38	25.25	1.71	26.96	<=33.01	Pass		
			74	25.26	1.71	26.97	<=33.01	Pass		
		36	0	24.80	1.71	26.51	<=33.01	Pass		
			18	25.40	1.71	27.11	<=33.01	Pass		
			39	25.32	1.71	27.03	<=33.01	Pass		
		75	0	25.51	1.71	27.22	<=33.01	Pass		
		16QAM	2577.5	1	0	24.81	1.71	26.52	<=33.01	Pass
					38	25.04	1.71	26.75	<=33.01	Pass
	74				24.82	1.71	26.53	<=33.01	Pass	
36	0			24.29	1.71	26.00	<=33.01	Pass		
	18			24.21	1.71	25.92	<=33.01	Pass		
	39			24.37	1.71	26.08	<=33.01	Pass		
75	0		24.40	1.71	26.11	<=33.01	Pass			
2595	1		0	24.82	1.71	26.53	<=33.01	Pass		
			38	24.93	1.71	26.64	<=33.01	Pass		
			74	24.91	1.71	26.62	<=33.01	Pass		
	36		0	24.29	1.71	26.00	<=33.01	Pass		
			18	23.87	1.71	25.58	<=33.01	Pass		



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64QAM	2612.5	75	39	24.41	1.71	26.12	<=33.01	Pass	
			0	24.15	1.71	25.86	<=33.01	Pass	
			0	25.06	1.71	26.77	<=33.01	Pass	
		36	1	38	24.95	1.71	26.66	<=33.01	Pass
			74	24.74	1.71	26.45	<=33.01	Pass	
			0	24.49	1.71	26.20	<=33.01	Pass	
	75	18	24.13	1.71	25.84	<=33.01	Pass		
		39	24.38	1.71	26.09	<=33.01	Pass		
		0	23.95	1.71	25.66	<=33.01	Pass		
	64QAM	2577.5	1	0	24.69	1.71	26.40	<=33.01	Pass
				38	24.64	1.71	26.35	<=33.01	Pass
				74	24.64	1.71	26.35	<=33.01	Pass
36			0	23.51	1.71	25.22	<=33.01	Pass	
			18	23.45	1.71	25.16	<=33.01	Pass	
			39	23.38	1.71	25.09	<=33.01	Pass	
75		0	23.56	1.71	25.27	<=33.01	Pass		
		1	0	24.68	1.71	26.39	<=33.01	Pass	
			38	24.71	1.71	26.42	<=33.01	Pass	
74			24.71	1.71	26.42	<=33.01	Pass		
36		0	23.57	1.71	25.28	<=33.01	Pass		
		18	23.50	1.71	25.21	<=33.01	Pass		
	39	23.53	1.71	25.24	<=33.01	Pass			
75	0	23.53	1.71	25.24	<=33.01	Pass			
	1	0	24.84	1.71	26.55	<=33.01	Pass		
		38	24.91	1.71	26.62	<=33.01	Pass		
74		24.75	1.71	26.46	<=33.01	Pass			
36	0	23.65	1.71	25.36	<=33.01	Pass			
	18	23.67	1.71	25.38	<=33.01	Pass			
	39	23.50	1.71	25.21	<=33.01	Pass			
75	0	23.65	1.71	25.36	<=33.01	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

1.4 B38_20MHz_EIRP

1.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	24.50	1.71	26.21	<=33.01	Pass
			50	25.24	1.71	26.95	<=33.01	Pass
			99	24.63	1.71	26.34	<=33.01	Pass
		50	0	24.69	1.71	26.40	<=33.01	Pass
			25	25.33	1.71	27.04	<=33.01	Pass
			50	25.40	1.71	27.11	<=33.01	Pass
		100	0	24.59	1.71	26.30	<=33.01	Pass



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	2595	1	0	24.85	1.71	26.56	<=33.01	Pass		
			50	25.42	1.71	27.13	<=33.01	Pass		
			99	25.17	1.71	26.88	<=33.01	Pass		
		50	0	24.57	1.71	26.28	<=33.01	Pass		
			25	24.50	1.71	26.21	<=33.01	Pass		
			50	25.11	1.71	26.82	<=33.01	Pass		
	100	0	24.60	1.71	26.31	<=33.01	Pass			
	2610	1	0	24.76	1.71	26.47	<=33.01	Pass		
			50	25.19	1.71	26.90	<=33.01	Pass		
			99	25.04	1.71	26.75	<=33.01	Pass		
		50	0	24.79	1.71	26.50	<=33.01	Pass		
			25	24.52	1.71	26.23	<=33.01	Pass		
			50	25.32	1.71	27.03	<=33.01	Pass		
		100	0	24.64	1.71	26.35	<=33.01	Pass		
		16QAM	2580	1	0	24.42	1.71	26.13	<=33.01	Pass
					50	24.95	1.71	26.66	<=33.01	Pass
	99				24.93	1.71	26.64	<=33.01	Pass	
	50			0	24.50	1.71	26.21	<=33.01	Pass	
25				24.20	1.71	25.91	<=33.01	Pass		
50				24.22	1.71	25.93	<=33.01	Pass		
100	0			24.21	1.71	25.92	<=33.01	Pass		
2595	1			0	24.35	1.71	26.06	<=33.01	Pass	
				50	24.74	1.71	26.45	<=33.01	Pass	
			99	24.83	1.71	26.54	<=33.01	Pass		
	50		0	24.15	1.71	25.86	<=33.01	Pass		
			25	24.16	1.71	25.87	<=33.01	Pass		
			50	24.29	1.71	26.00	<=33.01	Pass		
	100		0	24.14	1.71	25.85	<=33.01	Pass		
	2610		1	0	25.01	1.71	26.72	<=33.01	Pass	
				50	24.81	1.71	26.52	<=33.01	Pass	
99				24.74	1.71	26.45	<=33.01	Pass		
50			0	24.19	1.71	25.90	<=33.01	Pass		
			25	24.41	1.71	26.12	<=33.01	Pass		
			50	24.35	1.71	26.06	<=33.01	Pass		
100			0	24.26	1.71	25.97	<=33.01	Pass		
64QAM			2580	1	0	24.68	1.71	26.39	<=33.01	Pass
					50	24.78	1.71	26.49	<=33.01	Pass
	99				24.70	1.71	26.41	<=33.01	Pass	
	50			0	23.48	1.71	25.19	<=33.01	Pass	
				25	23.44	1.71	25.15	<=33.01	Pass	
				50	23.40	1.71	25.11	<=33.01	Pass	
	100	0		23.51	1.71	25.22	<=33.01	Pass		
	2595	1		0	24.60	1.71	26.31	<=33.01	Pass	
				50	24.70	1.71	26.41	<=33.01	Pass	
			99	24.74	1.71	26.45	<=33.01	Pass		
		50	0	23.52	1.71	25.23	<=33.01	Pass		
			25	23.46	1.71	25.17	<=33.01	Pass		
			50	23.51	1.71	25.22	<=33.01	Pass		



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2610	100	0	23.60	1.71	25.31	<=33.01	Pass
	1	0	24.72	1.71	26.43	<=33.01	Pass
		50	24.82	1.71	26.53	<=33.01	Pass
		99	24.68	1.71	26.39	<=33.01	Pass
	50	0	23.63	1.71	25.34	<=33.01	Pass
		25	23.62	1.71	25.33	<=33.01	Pass
		50	23.55	1.71	25.26	<=33.01	Pass
	100	0	23.73	1.71	25.44	<=33.01	Pass
	Note1: EIRP=Conducted Power+Antenna Gain						



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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	3.3	-5.000	-0.0019	/	Pass
					3.8	-4.800	-0.0019	/	Pass
					4.3	-1.200	-0.0005	/	Pass
				-30	3.8	-3.400	-0.0013	/	Pass
				-20	3.8	1.000	0.0004	/	Pass
				-10	3.8	-4.100	-0.0016	/	Pass
				0	3.8	-2.900	-0.0011	/	Pass
				10	3.8	-0.100	0.0000	/	Pass
				30	3.8	1.400	0.0005	/	Pass
	40	3.8	-0.400	-0.0002	/	Pass			
	50	3.8	-1.300	-0.0005	/	Pass			
	2595	25	0	20	3.3	-5.200	-0.0020	/	Pass
					3.8	-0.100	0.0000	/	Pass
					4.3	-1.000	-0.0004	/	Pass
				-30	3.8	-3.300	-0.0013	/	Pass
				-20	3.8	-3.000	-0.0012	/	Pass
				-10	3.8	-3.600	-0.0014	/	Pass
				0	3.8	-4.500	-0.0017	/	Pass
				10	3.8	-2.900	-0.0011	/	Pass
				30	3.8	-2.800	-0.0011	/	Pass
	40	3.8	-1.800	-0.0007	/	Pass			
	50	3.8	-2.400	-0.0009	/	Pass			
	2617.5	25	0	20	3.3	-5.500	-0.0021	/	Pass
					3.8	-4.700	-0.0018	/	Pass
					4.3	-2.100	-0.0008	/	Pass
				-30	3.8	-3.100	-0.0012	/	Pass
				-20	3.8	-4.600	-0.0018	/	Pass
-10				3.8	-6.700	-0.0026	/	Pass	
0				3.8	-4.700	-0.0018	/	Pass	
10				3.8	-4.800	-0.0018	/	Pass	
30				3.8	-3.400	-0.0013	/	Pass	
40	3.8	-1.700	-0.0006	/	Pass				
50	3.8	-3.100	-0.0012	/	Pass				
16QAM	2572.5	25	0	20	3.3	-3.100	-0.0012	/	Pass
					3.8	-4.500	-0.0017	/	Pass
					4.3	1.700	0.0007	/	Pass
				-30	3.8	0.100	0.0000	/	Pass



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64QAM	2595	25	0	-20	3.8	-2.100	-0.0008	/	Pass
				-10	3.8	-0.500	-0.0002	/	Pass
				0	3.8	0.300	0.0001	/	Pass
				10	3.8	1.100	0.0004	/	Pass
				30	3.8	-1.800	-0.0007	/	Pass
				40	3.8	-1.000	-0.0004	/	Pass
				50	3.8	0.400	0.0002	/	Pass
	2617.5	25	0	20	3.3	-3.700	-0.0014	/	Pass
					3.8	-1.200	-0.0005	/	Pass
					4.3	0.000	0.0000	/	Pass
				-30	3.8	-3.900	-0.0015	/	Pass
				-20	3.8	-3.700	-0.0014	/	Pass
				-10	3.8	-3.000	-0.0012	/	Pass
				0	3.8	-4.900	-0.0019	/	Pass
				10	3.8	-2.500	-0.0010	/	Pass
				30	3.8	1.200	0.0005	/	Pass
				40	3.8	-3.300	-0.0013	/	Pass
	50	3.8	-7.000	-0.0027	/	Pass			
	2617.5	25	0	20	3.3	-1.100	-0.0004	/	Pass
					3.8	-2.400	-0.0009	/	Pass
					4.3	-1.200	-0.0005	/	Pass
				-30	3.8	-4.200	-0.0016	/	Pass
				-20	3.8	-4.200	-0.0016	/	Pass
				-10	3.8	-1.700	-0.0006	/	Pass
				0	3.8	-4.500	-0.0017	/	Pass
				10	3.8	-4.300	-0.0016	/	Pass
				30	3.8	-3.100	-0.0012	/	Pass
				40	3.8	-4.100	-0.0016	/	Pass
50	3.8	-2.800	-0.0011	/	Pass				
2572.5	25	0	20	3.3	10.900	0.0042	/	Pass	
				3.8	-5.200	-0.0020	/	Pass	
				4.3	-3.600	-0.0014	/	Pass	
			-30	3.8	-30.100	-0.0117	/	Pass	
			-20	3.8	-12.400	-0.0048	/	Pass	
			-10	3.8	-5.700	-0.0022	/	Pass	
			0	3.8	52.900	0.0206	/	Pass	
			10	3.8	12.300	0.0048	/	Pass	
			30	3.8	9.600	0.0037	/	Pass	
			40	3.8	-2.500	-0.0010	/	Pass	
	50	3.8	1.300	0.0005	/	Pass			
	2595	25	0	20	3.3	2.000	0.0008	/	Pass
					3.8	10.200	0.0039	/	Pass
					4.3	-10.400	-0.0040	/	Pass
				-30	3.8	-14.000	-0.0054	/	Pass
				-20	3.8	1.600	0.0006	/	Pass
				-10	3.8	-17.400	-0.0067	/	Pass
0				3.8	5.300	0.0020	/	Pass	
10	3.8	-22.000	-0.0085	/	Pass				



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Modulation	Frequency (MHz)	RB Allocation Size	Offset	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)	Verdict	
				Result	Limit				
QPSK	2617.5	25	0	30	3.8	8.200	0.0032	/	Pass
				40	3.8	-21.100	-0.0081	/	Pass
				50	3.8	-2.100	-0.0008	/	Pass
				20	3.3	-16.600	-0.0063	/	Pass
					3.8	34.500	0.0132	/	Pass
					4.3	35.800	0.0137	/	Pass
				-30	3.8	22.600	0.0086	/	Pass
				-20	3.8	-27.500	-0.0105	/	Pass
				-10	3.8	-17.500	-0.0067	/	Pass
				0	3.8	-18.200	-0.0070	/	Pass
				10	3.8	30.400	0.0116	/	Pass
				30	3.8	-10.900	-0.0042	/	Pass
				40	3.8	-9.000	-0.0034	/	Pass
				50	3.8	-16.900	-0.0065	/	Pass

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	3.3	-2.900	-0.0011	/	Pass			
					3.8	-4.600	-0.0018	/	Pass			
					4.3	-3.300	-0.0013	/	Pass			
				-30	3.8	-3.800	-0.0015	/	Pass			
				-20	3.8	-2.200	-0.0009	/	Pass			
				-10	3.8	-6.000	-0.0023	/	Pass			
				0	3.8	-2.700	-0.0010	/	Pass			
				10	3.8	-1.200	-0.0005	/	Pass			
				30	3.8	-3.800	-0.0015	/	Pass			
				40	3.8	-7.700	-0.0030	/	Pass			
				50	3.8	-4.900	-0.0019	/	Pass			
				2595	50	0	20	3.3	-4.400	-0.0017	/	Pass
								3.8	-0.900	-0.0003	/	Pass
								4.3	-2.100	-0.0008	/	Pass
	-30	3.8	-1.200				-0.0005	/	Pass			
	-20	3.8	-4.800				-0.0018	/	Pass			
	-10	3.8	-3.800				-0.0015	/	Pass			
	0	3.8	-5.600				-0.0022	/	Pass			
	10	3.8	-3.300				-0.0013	/	Pass			
	30	3.8	-4.300				-0.0017	/	Pass			
	40	3.8	-0.500				-0.0002	/	Pass			
	50	3.8	-2.200	-0.0008	/	Pass						
	2615	50	0	20	3.3	-2.600	-0.0010	/	Pass			
					3.8	0.600	0.0002	/	Pass			



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					4.3	-3.400	-0.0013	/	Pass
				-30	3.8	-1.500	-0.0006	/	Pass
				-20	3.8	-2.000	-0.0008	/	Pass
				-10	3.8	-0.700	-0.0003	/	Pass
				0	3.8	-1.200	-0.0005	/	Pass
				10	3.8	-2.800	-0.0011	/	Pass
				30	3.8	-4.500	-0.0017	/	Pass
				40	3.8	1.500	0.0006	/	Pass
				50	3.8	-4.000	-0.0015	/	Pass
16QAM	2575	50	0	20	3.3	-6.200	-0.0024	/	Pass
					3.8	-5.200	-0.0020	/	Pass
					4.3	-6.200	-0.0024	/	Pass
				-30	3.8	-2.800	-0.0011	/	Pass
				-20	3.8	-2.100	-0.0008	/	Pass
				-10	3.8	-4.000	-0.0016	/	Pass
				0	3.8	-2.300	-0.0009	/	Pass
				10	3.8	-2.900	-0.0011	/	Pass
				30	3.8	-4.800	-0.0019	/	Pass
				40	3.8	1.000	0.0004	/	Pass
				50	3.8	-5.600	-0.0022	/	Pass
				2595	50	0	20	3.3	-7.700
	3.8	-1.900	-0.0007					/	Pass
	4.3	-2.500	-0.0010					/	Pass
	-30	3.8	-3.200				-0.0012	/	Pass
	-20	3.8	-4.600				-0.0018	/	Pass
	-10	3.8	-2.600				-0.0010	/	Pass
	0	3.8	1.100				0.0004	/	Pass
	10	3.8	-2.400				-0.0009	/	Pass
	30	3.8	-3.500				-0.0013	/	Pass
	40	3.8	-3.300				-0.0013	/	Pass
	50	3.8	-6.100				-0.0024	/	Pass
	2615	50	0				20	3.3	-0.200
				3.8	0.400	0.0002		/	Pass
				4.3	-2.100	-0.0008		/	Pass
				-30	3.8	0.200	0.0001	/	Pass
				-20	3.8	-1.500	-0.0006	/	Pass
				-10	3.8	0.500	0.0002	/	Pass
0				3.8	-1.300	-0.0005	/	Pass	
10				3.8	-1.700	-0.0007	/	Pass	
30				3.8	-1.700	-0.0007	/	Pass	
40				3.8	-0.500	-0.0002	/	Pass	
50				3.8	-0.600	-0.0002	/	Pass	
64QAM				2575	50	0	20	3.3	9.700
	3.8	4.100	0.0016					/	Pass
	4.3	-11.200	-0.0043					/	Pass
	-30	3.8	-5.100				-0.0020	/	Pass
	-20	3.8	7.100				0.0028	/	Pass
	-10	3.8	8.100				0.0031	/	Pass



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				0	3.8	-4.600	-0.0018	/	Pass			
				10	3.8	-7.900	-0.0031	/	Pass			
				30	3.8	12.600	0.0049	/	Pass			
				40	3.8	-1.100	-0.0004	/	Pass			
				50	3.8	14.400	0.0056	/	Pass			
2595	50	0	20	3.3	2.600	0.0010	/	Pass				
				3.8	9.500	0.0037	/	Pass				
				4.3	16.300	0.0063	/	Pass				
							-30	3.8	-13.000	-0.0050	/	Pass
							-20	3.8	-9.900	-0.0038	/	Pass
							-10	3.8	-11.600	-0.0045	/	Pass
							0	3.8	-7.300	-0.0028	/	Pass
							10	3.8	-13.500	-0.0052	/	Pass
							30	3.8	-9.500	-0.0037	/	Pass
							40	3.8	-4.200	-0.0016	/	Pass
							50	3.8	-10.900	-0.0042	/	Pass
			2615	50	0	20	3.3	-2.800	-0.0011	/	Pass	
3.8	-0.500	-0.0002					/	Pass				
4.3	-6.100	-0.0023					/	Pass				
							-30	3.8	12.400	0.0047	/	Pass
							-20	3.8	7.200	0.0028	/	Pass
							-10	3.8	1.200	0.0005	/	Pass
							0	3.8	4.900	0.0019	/	Pass
							10	3.8	0.900	0.0003	/	Pass
							30	3.8	6.000	0.0023	/	Pass
							40	3.8	-6.300	-0.0024	/	Pass
							50	3.8	-7.100	-0.0027	/	Pass

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	3.3	-2.200	-0.0009	/	Pass				
					3.8	-3.700	-0.0014	/	Pass				
					4.3	-1.000	-0.0004	/	Pass				
								-30	3.8	-5.900	-0.0023	/	Pass
								-20	3.8	-2.400	-0.0009	/	Pass
								-10	3.8	-1.600	-0.0006	/	Pass
								0	3.8	-1.600	-0.0006	/	Pass
								10	3.8	-4.100	-0.0016	/	Pass
								30	3.8	-2.000	-0.0008	/	Pass
								40	3.8	-2.100	-0.0008	/	Pass
								50	3.8	-4.800	-0.0019	/	Pass



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2595	75	0	20	3.3	-4.700	-0.0018	/	Pass						
				3.8	-3.500	-0.0013	/	Pass						
				4.3	-3.600	-0.0014	/	Pass						
			-30	3.8	-4.800	-0.0018	/	Pass						
				-20	3.8	-6.000	-0.0023	/	Pass					
				-10	3.8	-4.500	-0.0017	/	Pass					
			2612.5	75	0	20	3.3	-3.700	-0.0014	/	Pass			
							3.8	-6.500	-0.0025	/	Pass			
							4.3	-5.600	-0.0021	/	Pass			
						-30	3.8	-4.300	-0.0016	/	Pass			
							-20	3.8	-6.200	-0.0024	/	Pass		
							-10	3.8	-4.900	-0.0019	/	Pass		
						2577.5	75	0	20	3.3	-1.000	-0.0004	/	Pass
										3.8	-5.000	-0.0019	/	Pass
			4.3	-2.900	-0.0011					/	Pass			
			-30	3.8	-4.000				-0.0016	/	Pass			
				-20	3.8				-2.300	-0.0009	/	Pass		
				-10	3.8				-6.400	-0.0025	/	Pass		
			16QAM	2595	75				20	3.3	-3.800	-0.0015	/	Pass
3.8	-3.100	-0.0012								/	Pass			
4.3	-4.100	-0.0016				/	Pass							
-30	3.8	-8.200				-0.0032	/	Pass						
	-20	3.8				-2.000	-0.0008	/	Pass					
	-10	3.8				-2.200	-0.0008	/	Pass					
2612.5	75	0				20	3.3	-3.800	-0.0015	/	Pass			
							3.8	-3.800	-0.0015	/	Pass			
							4.3	-3.800	-0.0015	/	Pass			
						-30	3.8	-7.000	-0.0027	/	Pass			
							3.8	-7.400	-0.0029	/	Pass			
2595	75	0	20	3.3	-2.600	-0.0010	/	Pass						
				3.8	-1.900	-0.0007	/	Pass						
				4.3	-5.300	-0.0020	/	Pass						
			-30	3.8	-3.700	-0.0014	/	Pass						
				3.8	-1.700	-0.0007	/	Pass						



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				-20	3.8	-5.700	-0.0022	/	Pass	
				-10	3.8	-3.100	-0.0012	/	Pass	
				0	3.8	-7.200	-0.0028	/	Pass	
				10	3.8	-6.400	-0.0024	/	Pass	
				30	3.8	-5.300	-0.0020	/	Pass	
				40	3.8	-6.100	-0.0023	/	Pass	
				50	3.8	-2.800	-0.0011	/	Pass	
64QAM	2577.5	75	0	20	3.3	1.400	0.0005	/	Pass	
					3.8	3.200	0.0012	/	Pass	
					4.3	-8.100	-0.0031	/	Pass	
				-30	3.8	-27.200	-0.0106	/	Pass	
					-20	3.8	-12.600	-0.0049	/	Pass
						3.8	11.500	0.0045	/	Pass
				3.8		-25.700	-0.0100	/	Pass	
				10	3.8	-24.100	-0.0094	/	Pass	
				30	3.8	-17.500	-0.0068	/	Pass	
	40	3.8	2.500	0.0010	/	Pass				
	50	3.8	1.700	0.0007	/	Pass				
	2595	75	0	20	3.3	-22.400	-0.0086	/	Pass	
					3.8	-19.600	-0.0076	/	Pass	
					4.3	-9.100	-0.0035	/	Pass	
				-30	3.8	-16.500	-0.0064	/	Pass	
					-20	3.8	-17.000	-0.0066	/	Pass
						3.8	6.600	0.0025	/	Pass
				0		3.8	-4.100	-0.0016	/	Pass
				10	3.8	-8.100	-0.0031	/	Pass	
				30	3.8	-2.600	-0.0010	/	Pass	
	40	3.8	-9.500	-0.0037	/	Pass				
	50	3.8	-14.300	-0.0055	/	Pass				
	2612.5	75	0	20	3.3	-4.700	-0.0018	/	Pass	
					3.8	-27.500	-0.0105	/	Pass	
					4.3	3.500	0.0013	/	Pass	
				-30	3.8	-15.000	-0.0057	/	Pass	
					-20	3.8	-9.000	-0.0034	/	Pass
3.8						-11.500	-0.0044	/	Pass	
0				3.8		-4.700	-0.0018	/	Pass	
10				3.8	3.900	0.0015	/	Pass		
30				3.8	2.900	0.0011	/	Pass		
40	3.8	4.900	0.0019	/	Pass					
50	3.8	-19.800	-0.0076	/	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	3.3	-0.300	-0.0001	/	Pass
					3.8	-5.900	-0.0023	/	Pass
					4.3	-1.500	-0.0006	/	Pass
				-30	3.8	-4.000	-0.0016	/	Pass
				-20	3.8	-2.900	-0.0011	/	Pass
				-10	3.8	-6.600	-0.0026	/	Pass
				0	3.8	-3.200	-0.0012	/	Pass
				10	3.8	0.400	0.0002	/	Pass
				30	3.8	-4.600	-0.0018	/	Pass
				40	3.8	-6.200	-0.0024	/	Pass
	50	3.8	-1.400	-0.0005	/	Pass			
	2595	100	0	20	3.3	-4.400	-0.0017	/	Pass
					3.8	-6.200	-0.0024	/	Pass
					4.3	-5.000	-0.0019	/	Pass
				-30	3.8	-5.000	-0.0019	/	Pass
				-20	3.8	-4.400	-0.0017	/	Pass
				-10	3.8	-4.300	-0.0017	/	Pass
				0	3.8	-3.400	-0.0013	/	Pass
				10	3.8	-4.200	-0.0016	/	Pass
				30	3.8	-1.500	-0.0006	/	Pass
				40	3.8	-5.500	-0.0021	/	Pass
	50	3.8	-6.200	-0.0024	/	Pass			
	2610	100	0	20	3.3	-1.500	-0.0006	/	Pass
					3.8	-1.200	-0.0005	/	Pass
					4.3	-2.600	-0.0010	/	Pass
				-30	3.8	-3.400	-0.0013	/	Pass
				-20	3.8	-2.800	-0.0011	/	Pass
				-10	3.8	-4.300	-0.0016	/	Pass
				0	3.8	-4.500	-0.0017	/	Pass
				10	3.8	-4.000	-0.0015	/	Pass
30				3.8	-4.900	-0.0019	/	Pass	
40				3.8	-6.000	-0.0023	/	Pass	
50	3.8	-4.700	-0.0018	/	Pass				
16QAM	2580	100	0	20	3.3	-7.200	-0.0028	/	Pass
					3.8	-2.900	-0.0011	/	Pass
					4.3	-1.800	-0.0007	/	Pass
				-30	3.8	-8.000	-0.0031	/	Pass
				-20	3.8	-5.000	-0.0019	/	Pass
				-10	3.8	-3.800	-0.0015	/	Pass
				0	3.8	-2.900	-0.0011	/	Pass



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64QAM	2595	100	0	10	3.8	-3.800	-0.0015	/	Pass
				30	3.8	-4.200	-0.0016	/	Pass
				40	3.8	-4.400	-0.0017	/	Pass
				50	3.8	-4.500	-0.0017	/	Pass
				20	3.3	-3.400	-0.0013	/	Pass
	2610	100	0	20	3.8	-5.400	-0.0021	/	Pass
				4.3	-4.800	-0.0018	/	Pass	
				-30	3.8	-1.400	-0.0005	/	Pass
				-20	3.8	-1.900	-0.0007	/	Pass
				-10	3.8	-4.600	-0.0018	/	Pass
				0	3.8	-3.600	-0.0014	/	Pass
				10	3.8	-2.700	-0.0010	/	Pass
				30	3.8	-6.000	-0.0023	/	Pass
				40	3.8	-6.400	-0.0025	/	Pass
				50	3.8	-7.400	-0.0029	/	Pass
	2580	100	0	20	3.3	-4.800	-0.0018	/	Pass
				3.8	-6.200	-0.0024	/	Pass	
				4.3	-4.700	-0.0018	/	Pass	
				-30	3.8	-2.600	-0.0010	/	Pass
				-20	3.8	-4.300	-0.0016	/	Pass
-10				3.8	-6.200	-0.0024	/	Pass	
0				3.8	-3.300	-0.0013	/	Pass	
10				3.8	-4.700	-0.0018	/	Pass	
30				3.8	-3.600	-0.0014	/	Pass	
40				3.8	-0.800	-0.0003	/	Pass	
50				3.8	-2.900	-0.0011	/	Pass	
20				3.3	-15.900	-0.0062	/	Pass	
3.8				-20.400	-0.0079	/	Pass		
4.3				-1.800	-0.0007	/	Pass		
-30				3.8	-3.900	-0.0015	/	Pass	
-20	3.8	-8.900	-0.0034	/	Pass				
-10	3.8	-5.900	-0.0023	/	Pass				
0	3.8	-19.500	-0.0076	/	Pass				
10	3.8	-6.500	-0.0025	/	Pass				
30	3.8	4.000	0.0016	/	Pass				
40	3.8	-15.300	-0.0059	/	Pass				
50	3.8	-10.200	-0.0040	/	Pass				
2595	100	0	20	3.3	-7.400	-0.0029	/	Pass	
			3.8	-3.900	-0.0015	/	Pass		
			4.3	-13.000	-0.0050	/	Pass		
			-30	3.8	-1.300	-0.0005	/	Pass	
			-20	3.8	-16.400	-0.0063	/	Pass	
			-10	3.8	-18.200	-0.0070	/	Pass	
			0	3.8	-0.500	-0.0002	/	Pass	
			10	3.8	-0.200	-0.0001	/	Pass	
			30	3.8	-10.000	-0.0039	/	Pass	
			40	3.8	-13.700	-0.0053	/	Pass	
50	3.8	-15.200	-0.0059	/	Pass				



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2610	100	0	20	3.3	-8.200	-0.0031	/	Pass
				3.8	-11.200	-0.0043	/	Pass
				4.3	-2.600	-0.0010	/	Pass
			-30	3.8	-13.400	-0.0051	/	Pass
				3.8	1.300	0.0005	/	Pass
			-10	3.8	-14.000	-0.0054	/	Pass
			0	3.8	-5.600	-0.0021	/	Pass
			10	3.8	-9.300	-0.0036	/	Pass
			30	3.8	-8.400	-0.0032	/	Pass
			40	3.8	-3.800	-0.0015	/	Pass
			50	3.8	3.600	0.0014	/	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	4.518	/	Pass
		2595	25	0	4.521	/	Pass
		2617.5	25	0	4.503	/	Pass
	16QAM	2572.5	25	0	4.524	/	Pass
		2595	25	0	4.517	/	Pass
		2617.5	25	0	4.517	/	Pass
	64QAM	2572.5	25	0	4.521	/	Pass
		2595	25	0	4.528	/	Pass
		2617.5	25	0	4.492	/	Pass
10	QPSK	2575	50	0	9.019	/	Pass
		2595	50	0	8.995	/	Pass
		2615	50	0	8.992	/	Pass
	16QAM	2575	50	0	9.029	/	Pass
		2595	50	0	9.001	/	Pass
		2615	50	0	9.006	/	Pass
	64QAM	2575	50	0	9.048	/	Pass
		2595	50	0	8.972	/	Pass
		2615	50	0	8.986	/	Pass
15	QPSK	2577.5	75	0	13.520	/	Pass
		2595	75	0	13.490	/	Pass
		2612.5	75	0	13.526	/	Pass
	16QAM	2577.5	75	0	13.550	/	Pass
		2595	75	0	13.540	/	Pass
		2612.5	75	0	13.526	/	Pass
	64QAM	2577.5	75	0	13.522	/	Pass
		2595	75	0	13.539	/	Pass
		2612.5	75	0	13.542	/	Pass
20	QPSK	2580	100	0	18.113	/	Pass
		2595	100	0	18.087	/	Pass
		2610	100	0	18.105	/	Pass
	16QAM	2580	100	0	18.096	/	Pass
		2595	100	0	18.075	/	Pass
		2610	100	0	18.090	/	Pass
	64QAM	2580	100	0	18.093	/	Pass
		2595	100	0	18.099	/	Pass
		2610	100	0	18.123	/	Pass



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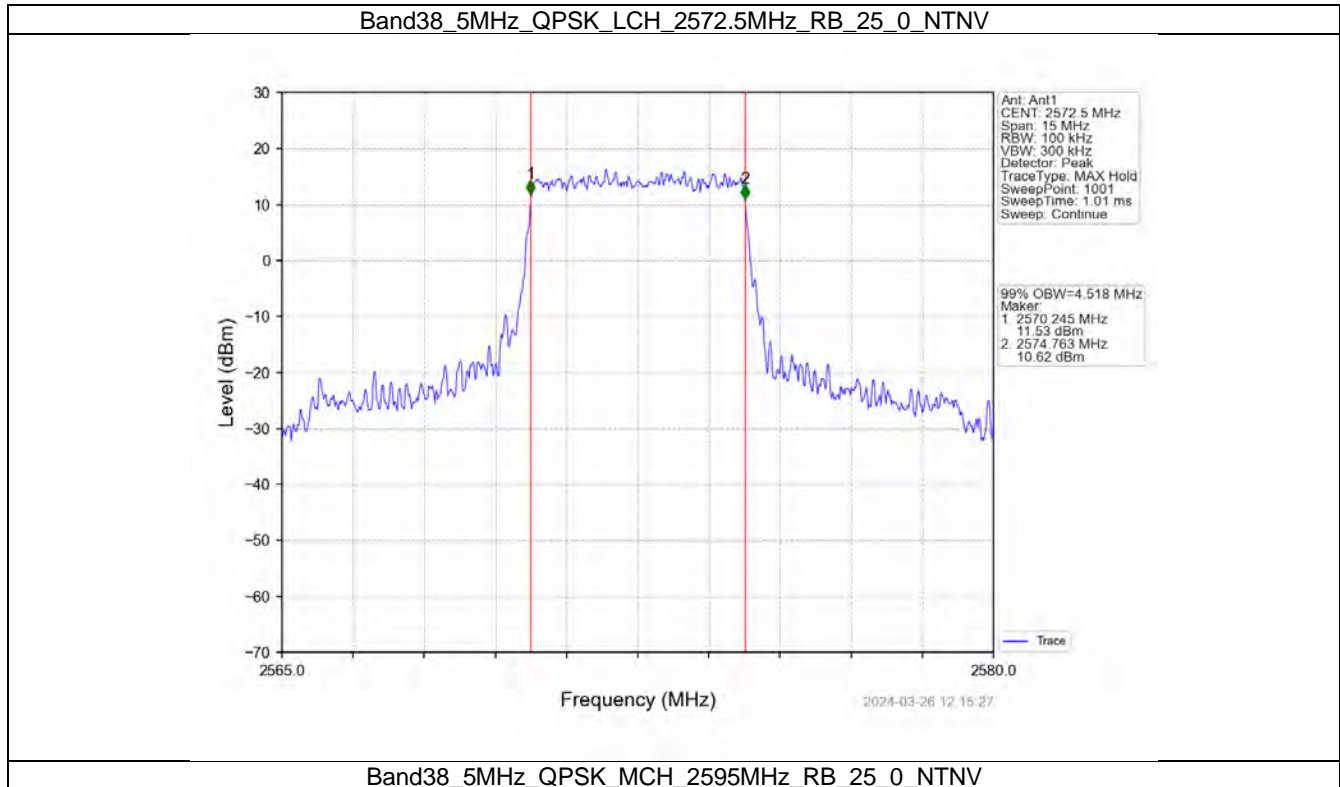
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3.1.2 Test Graph



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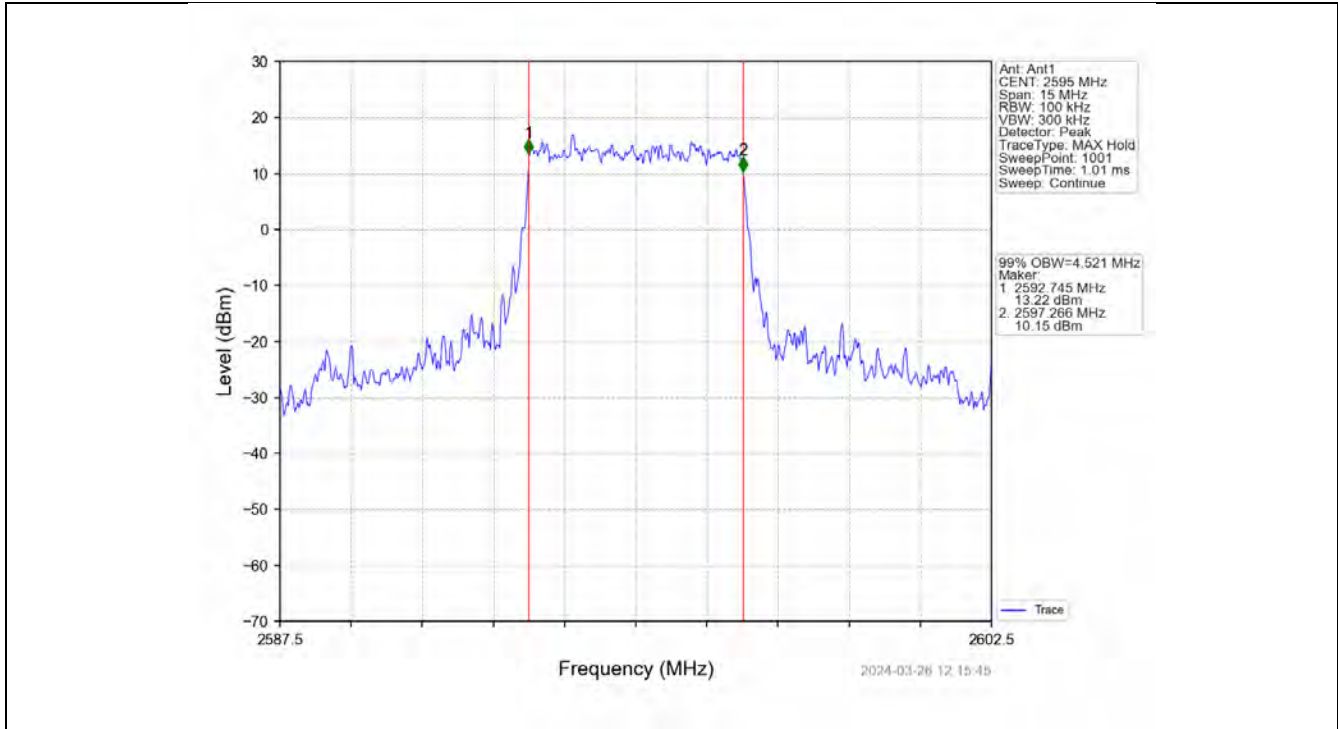


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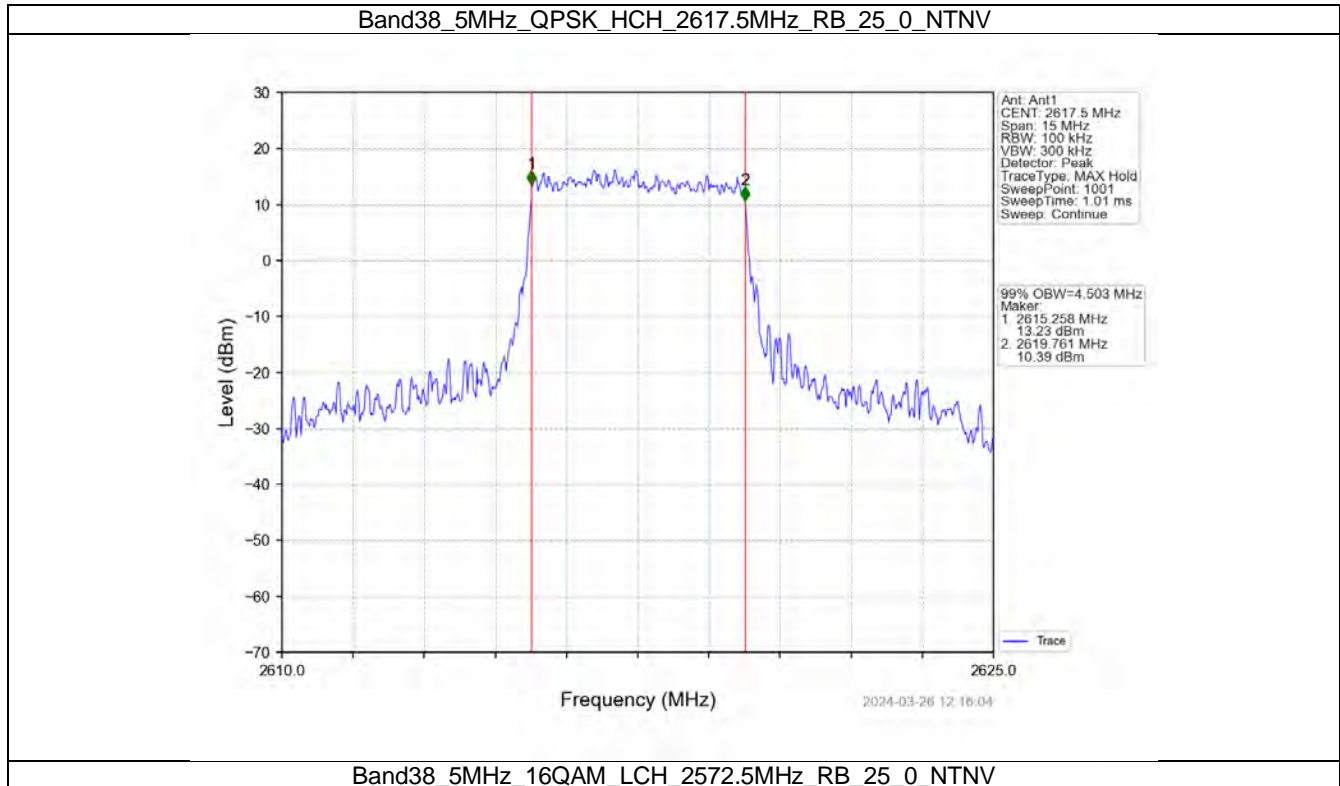


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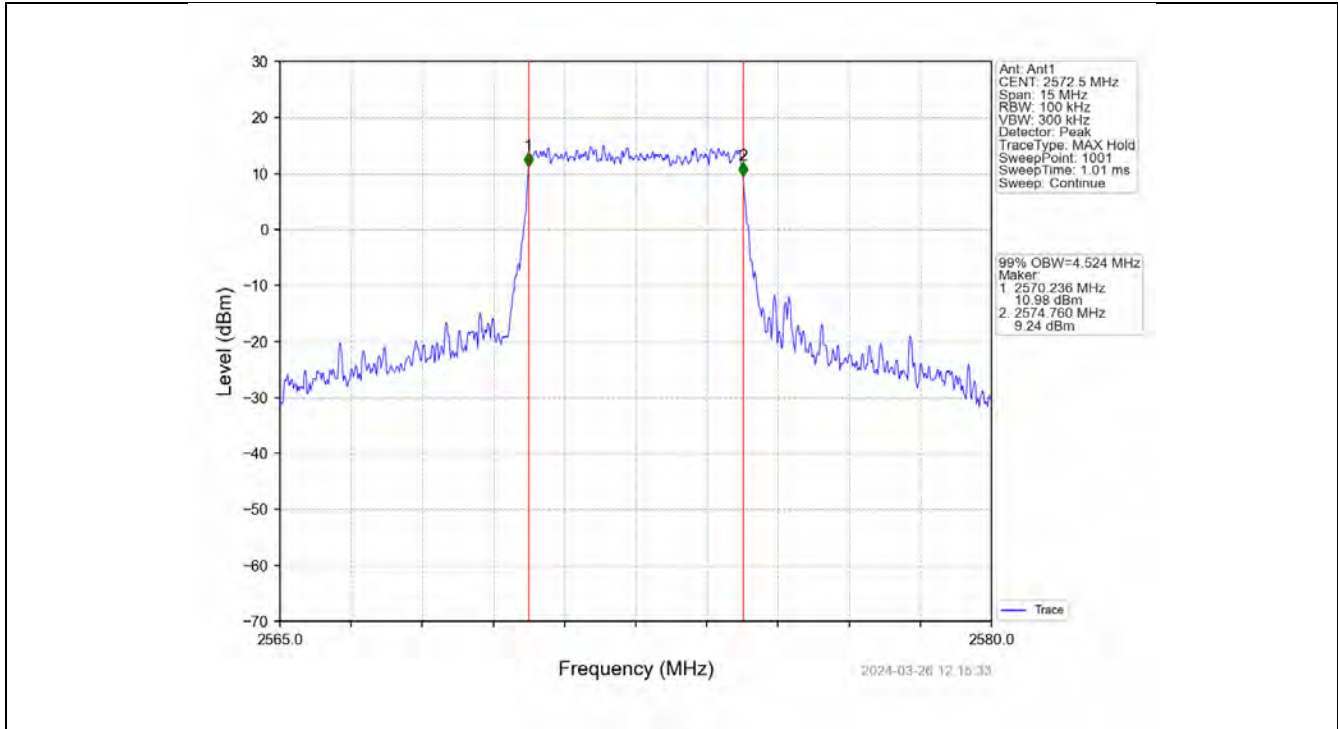


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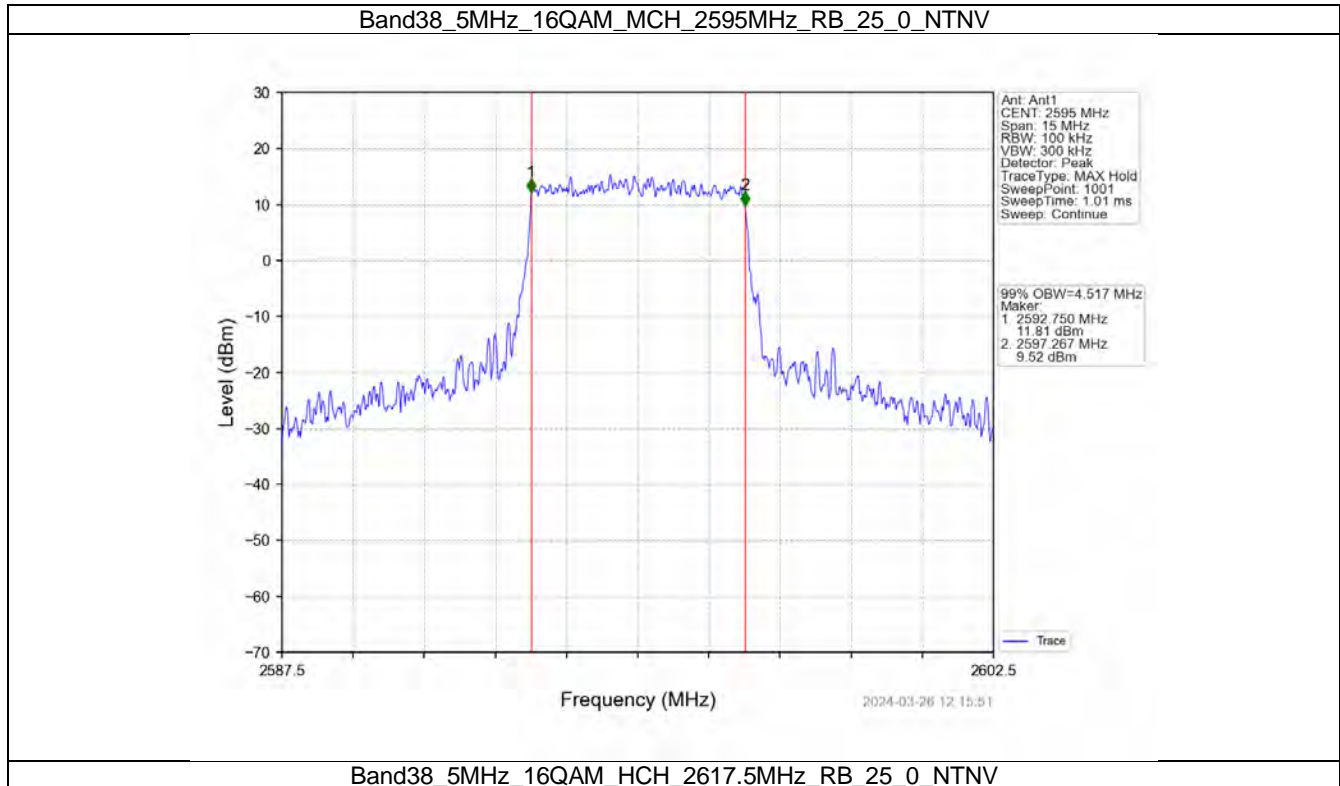


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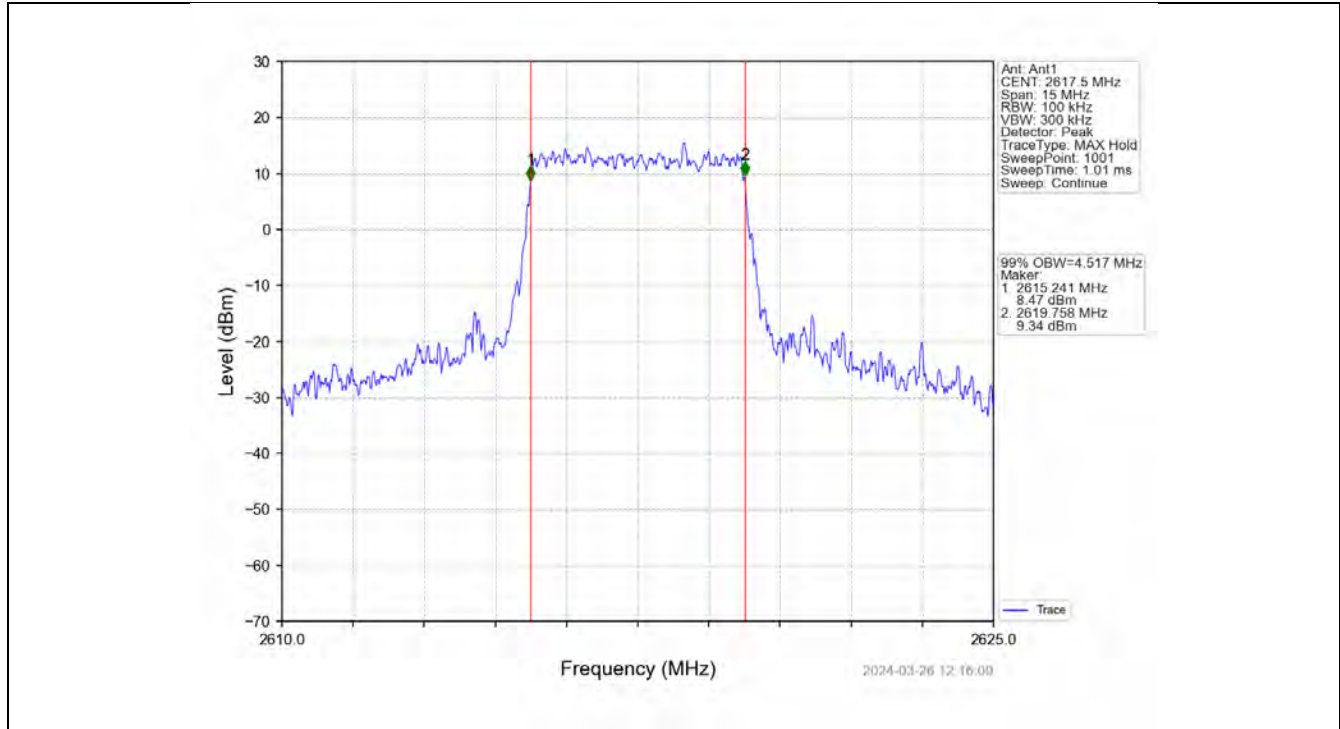


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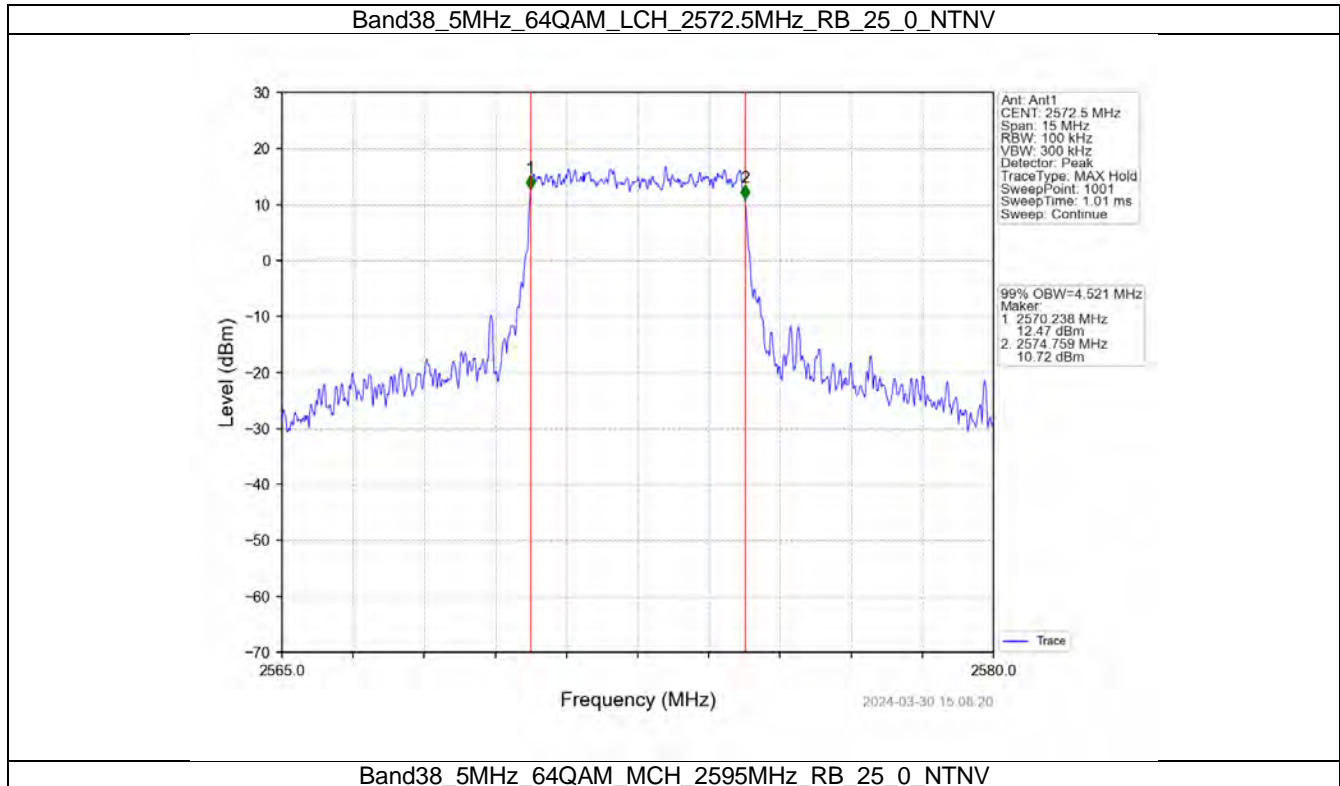


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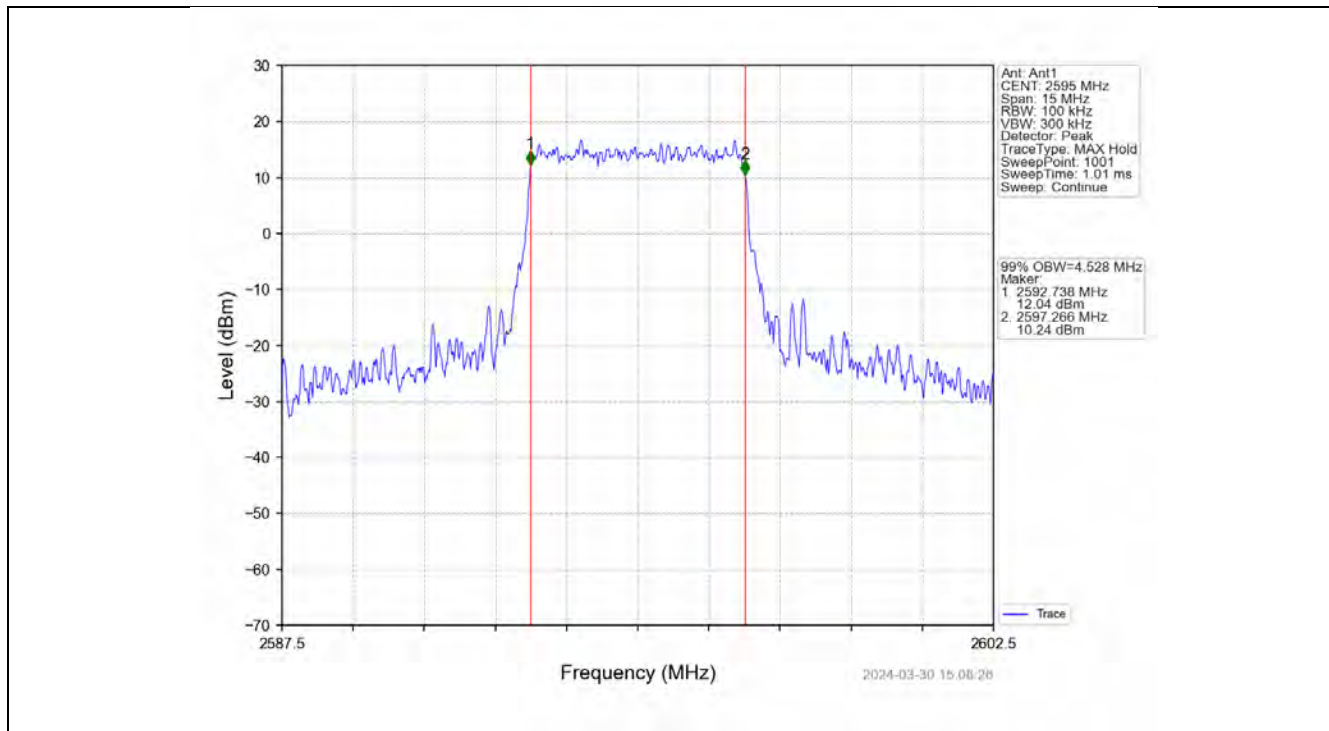
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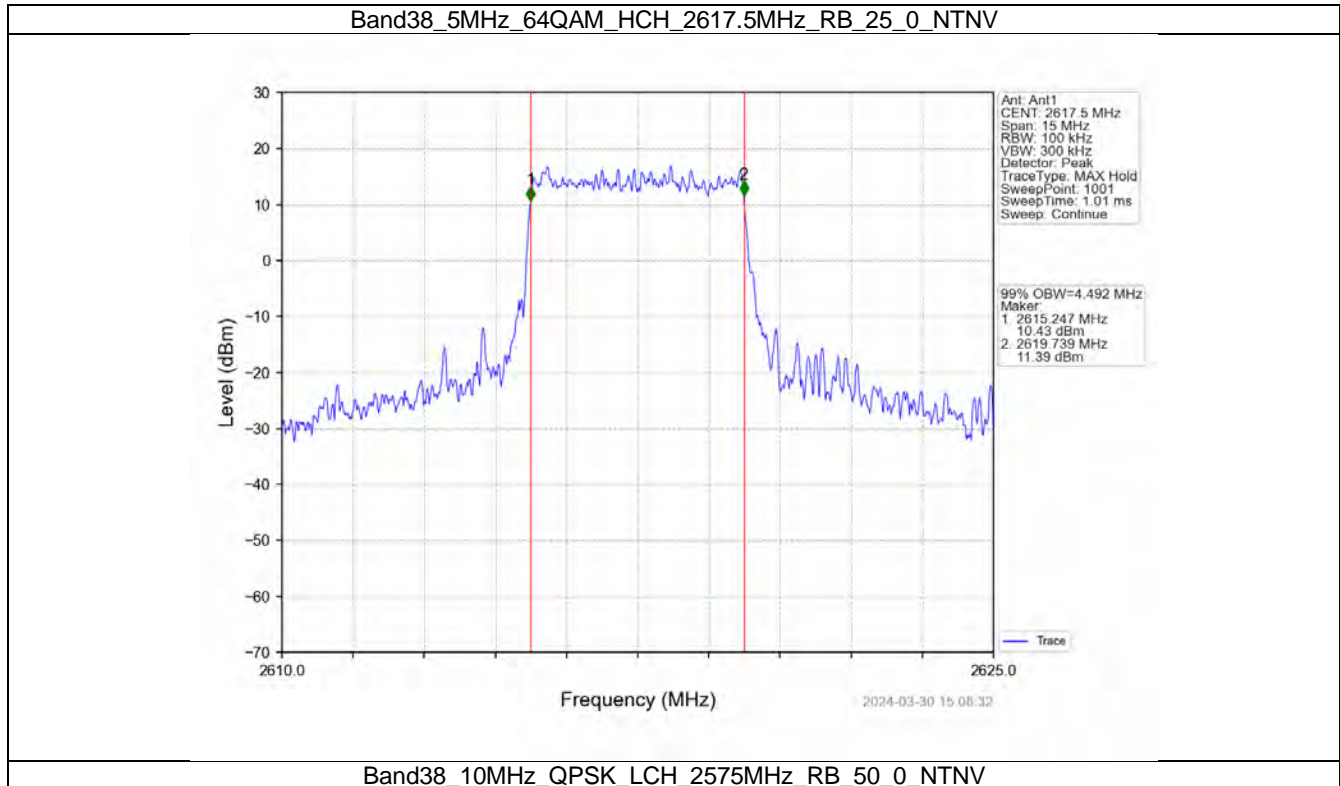


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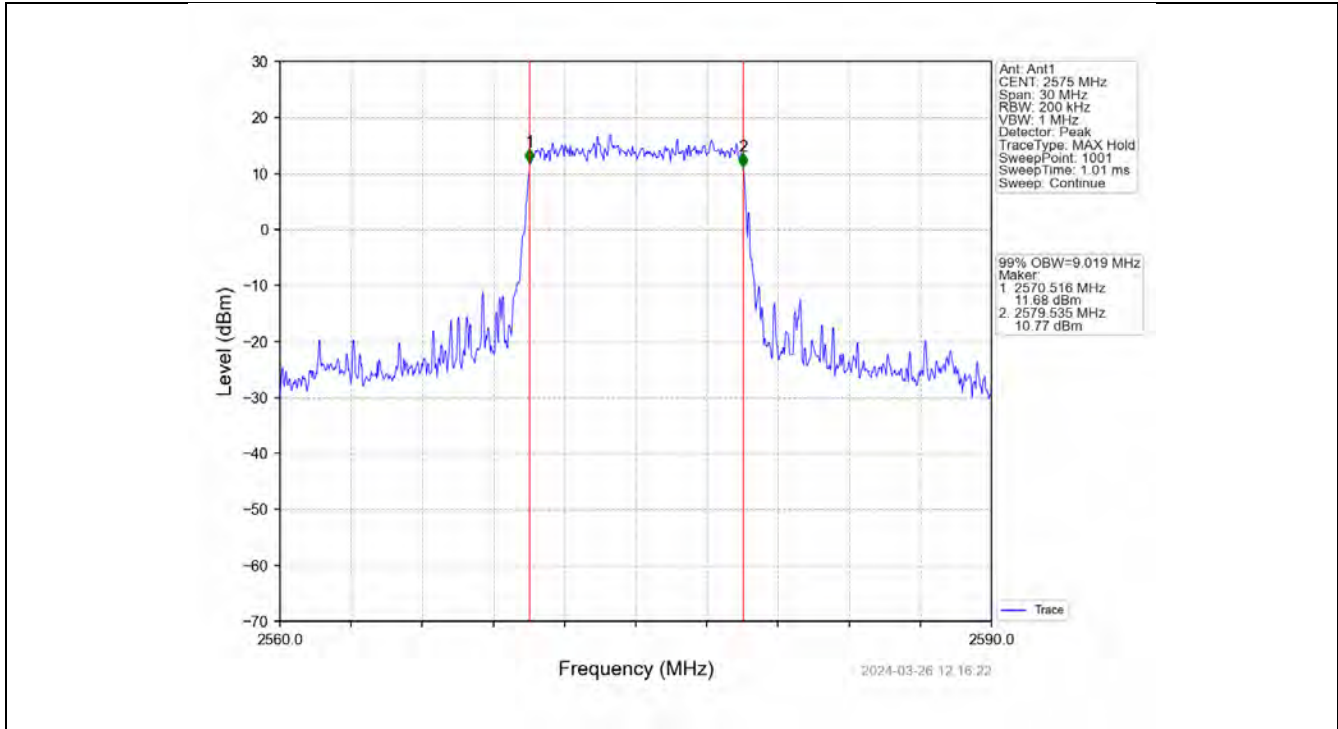


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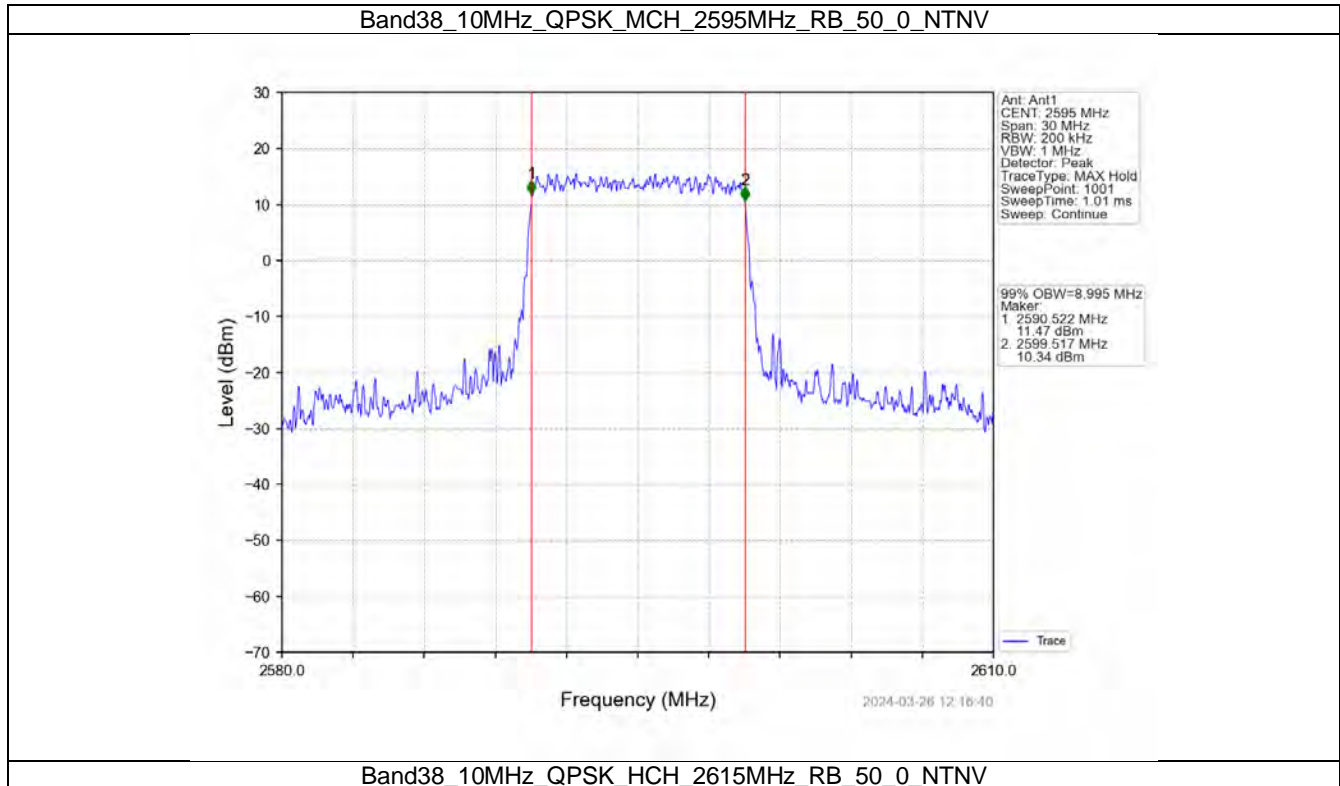


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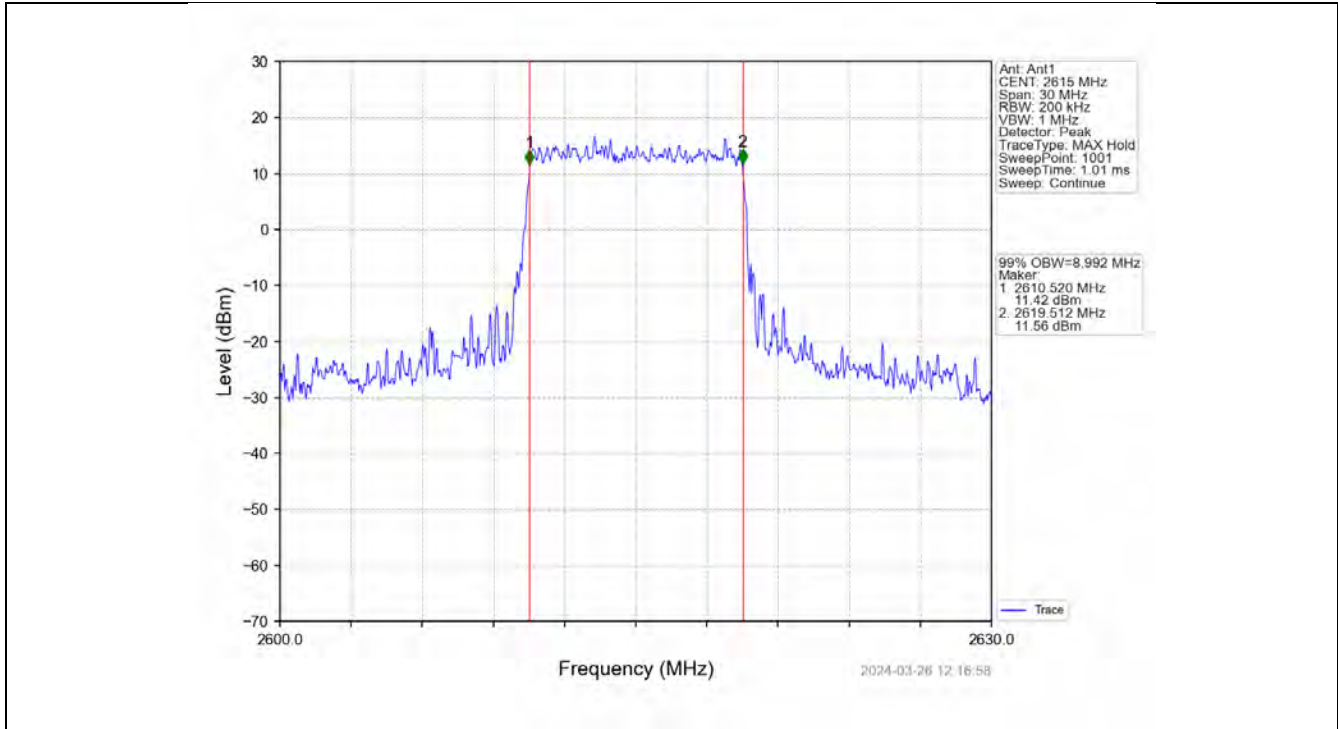


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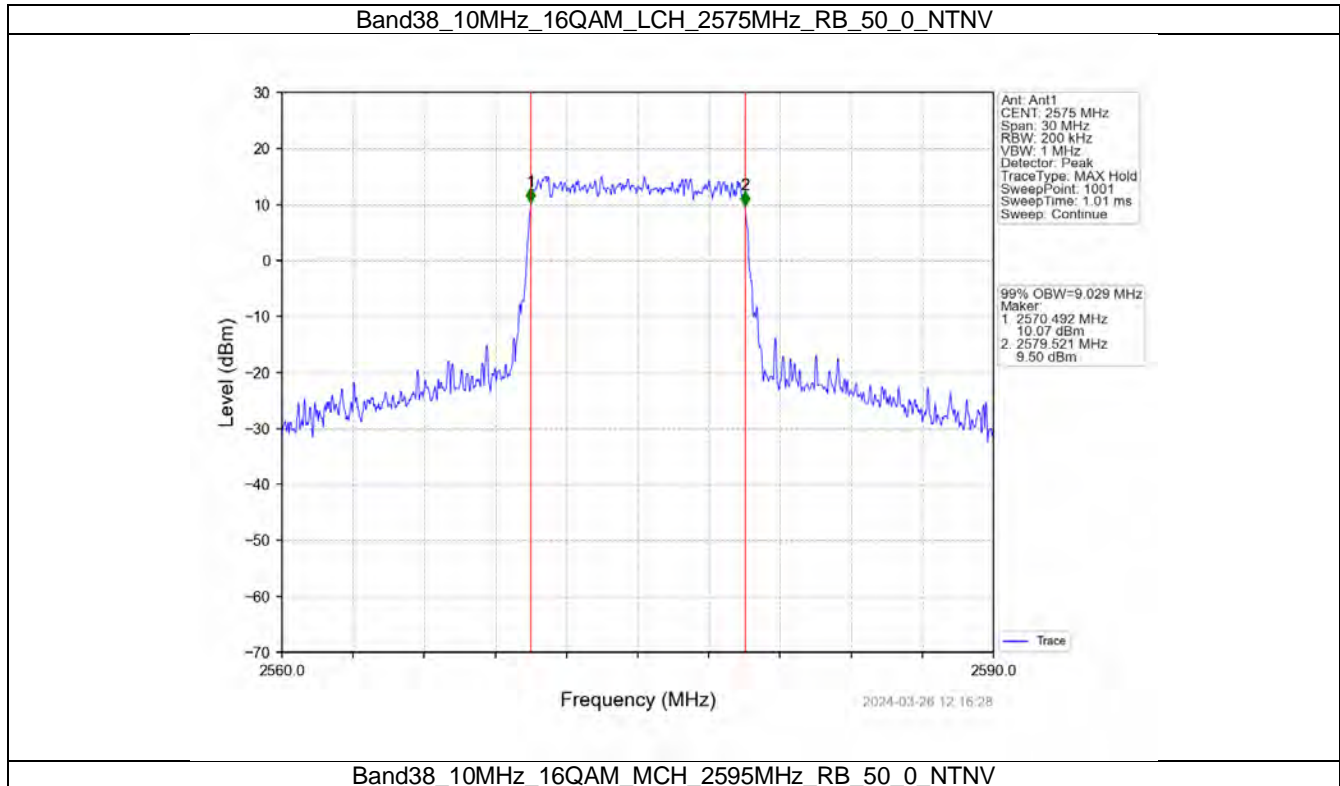


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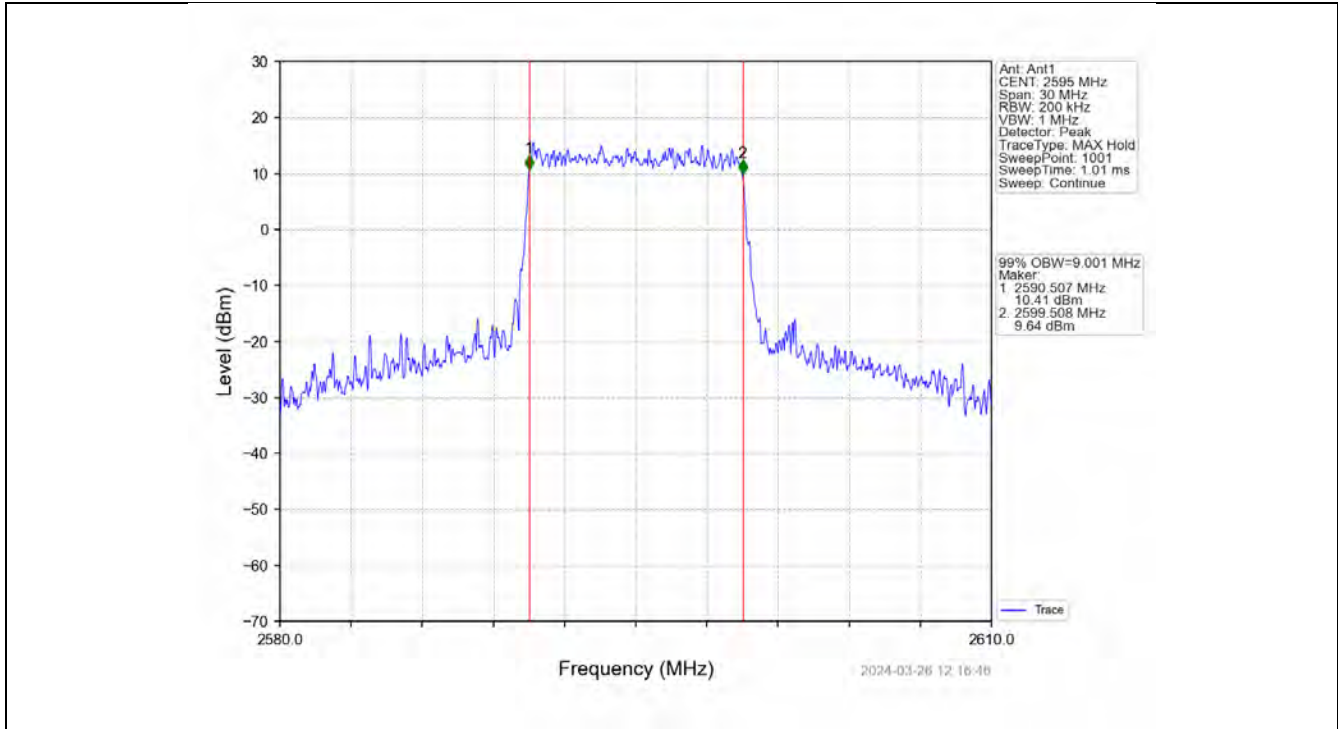


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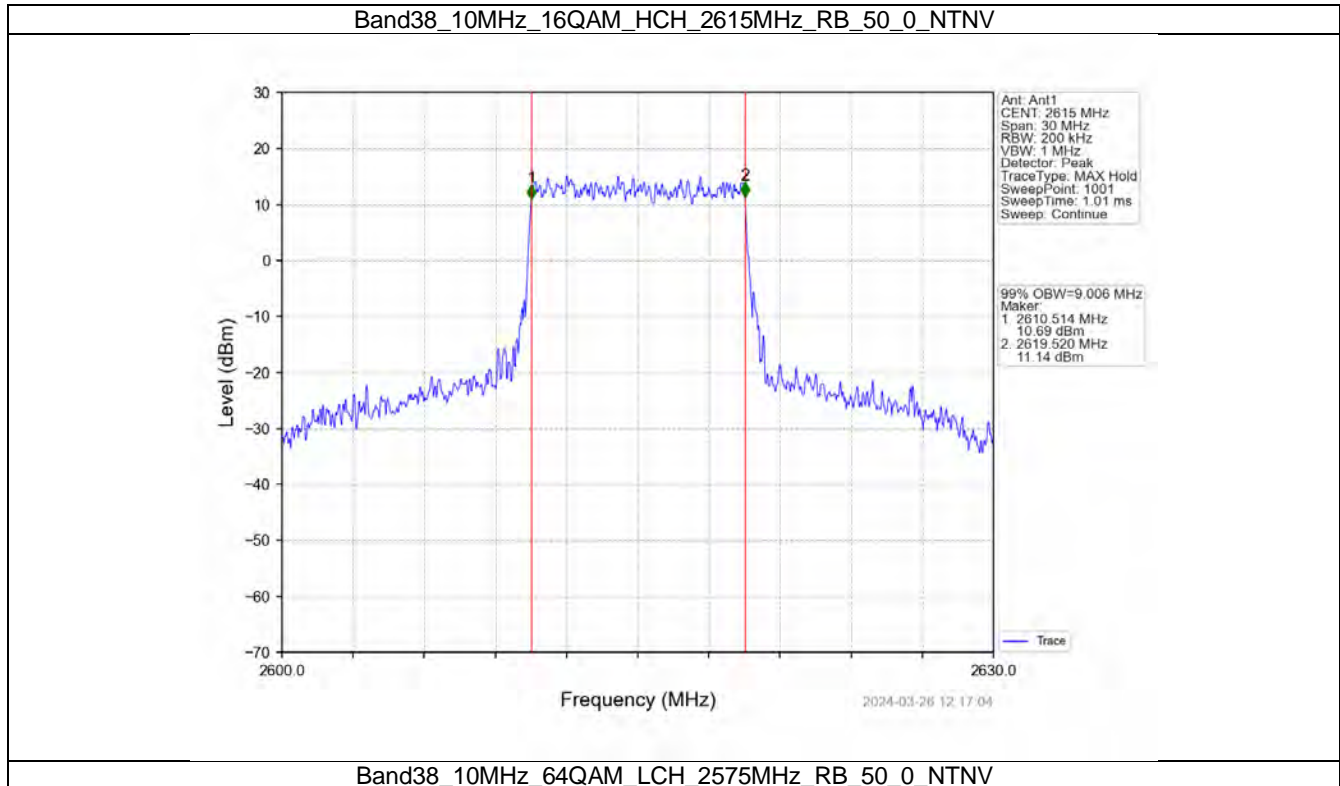


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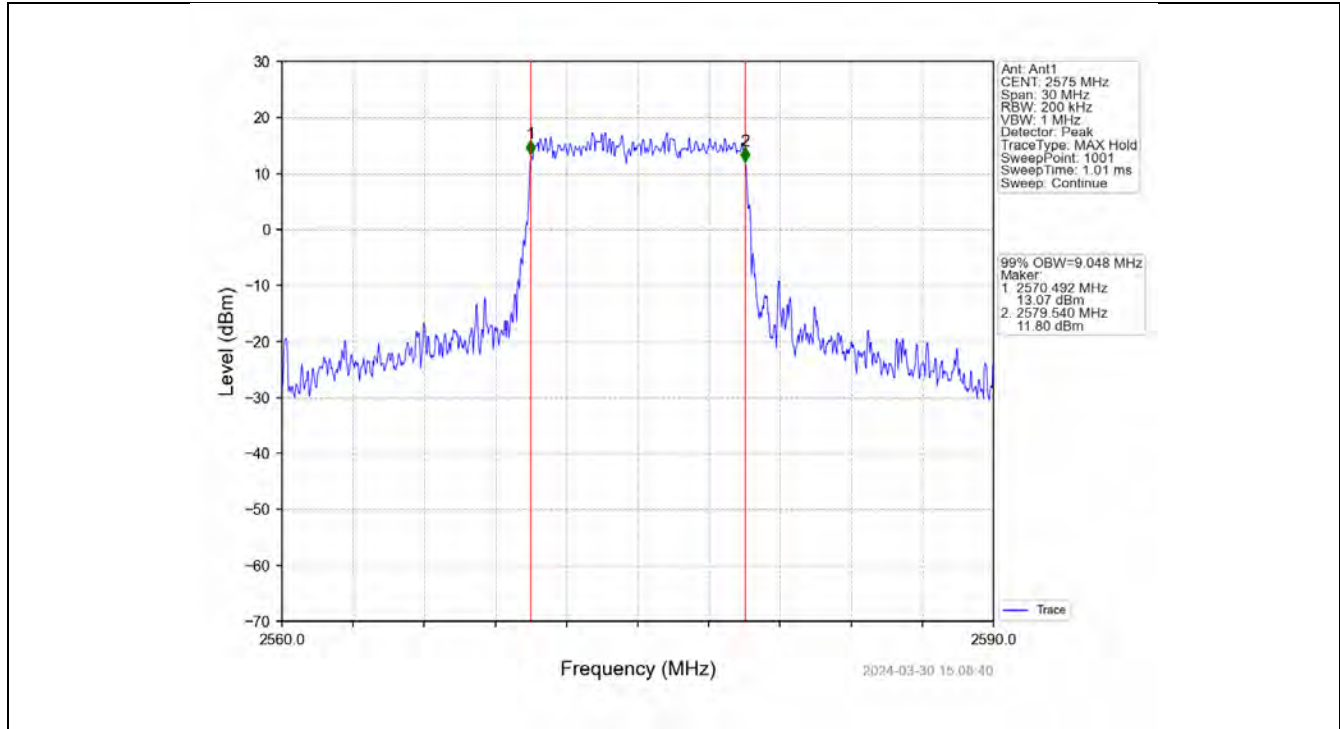


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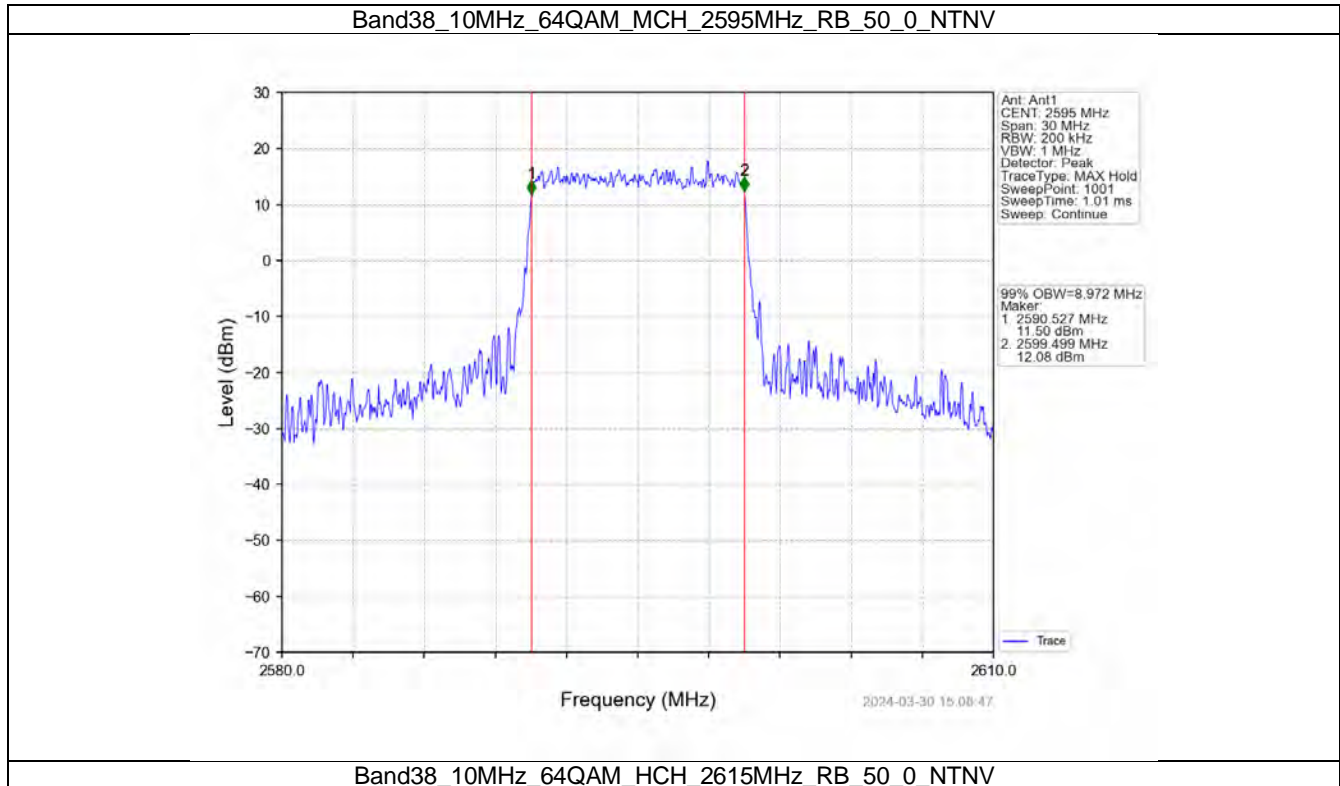


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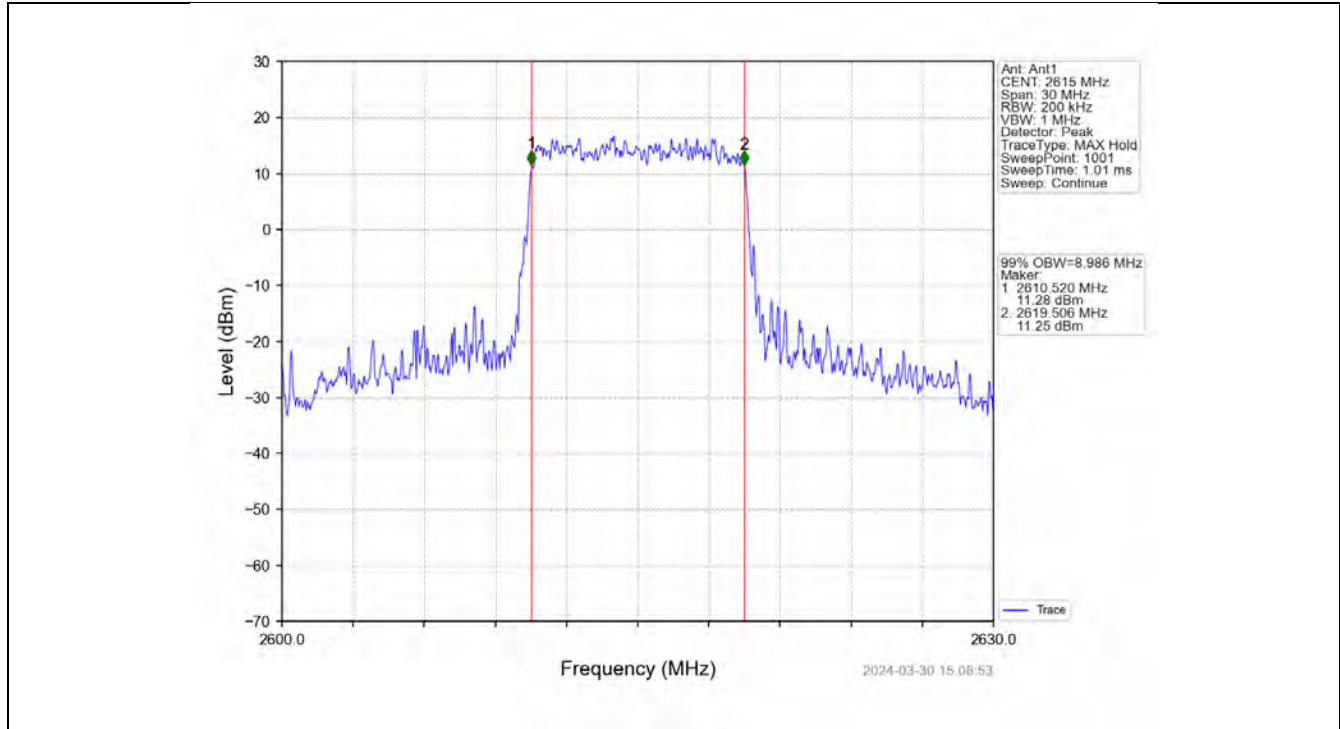


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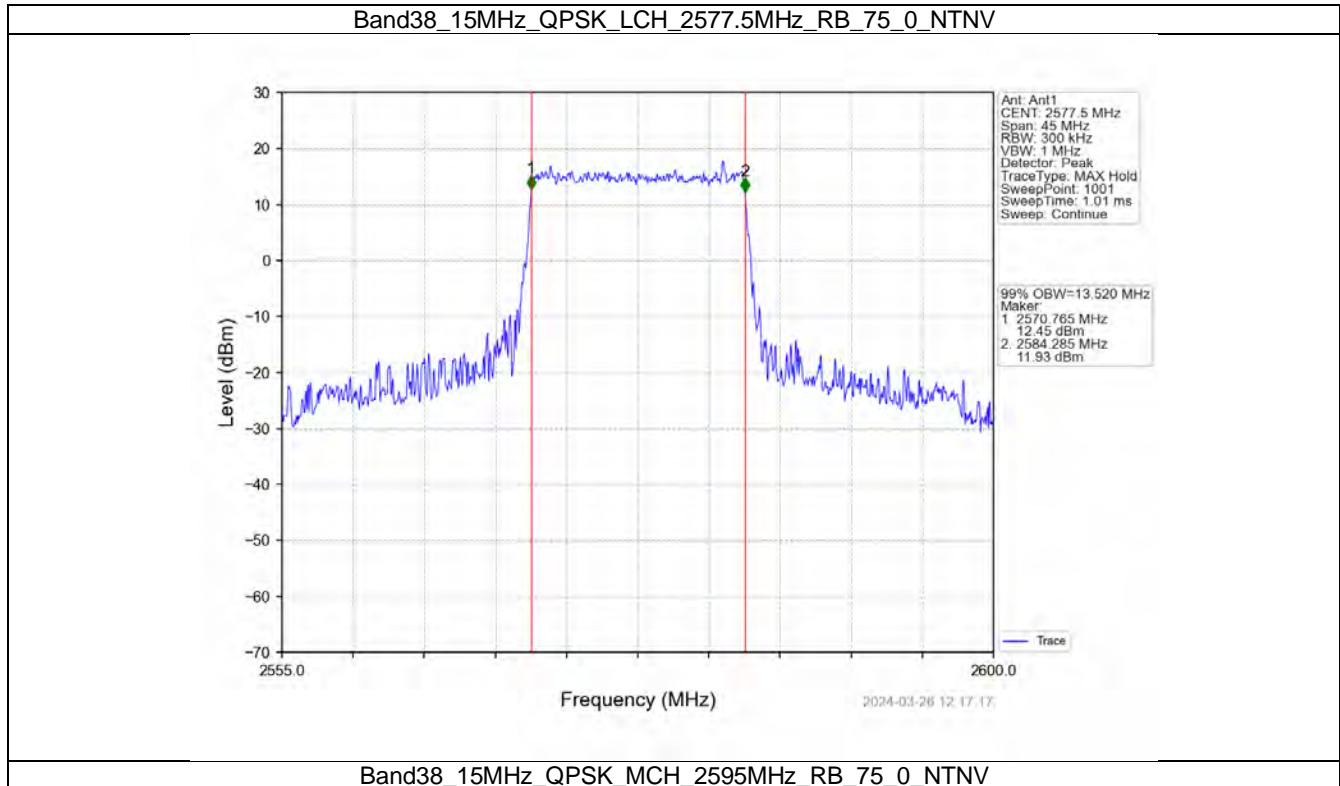


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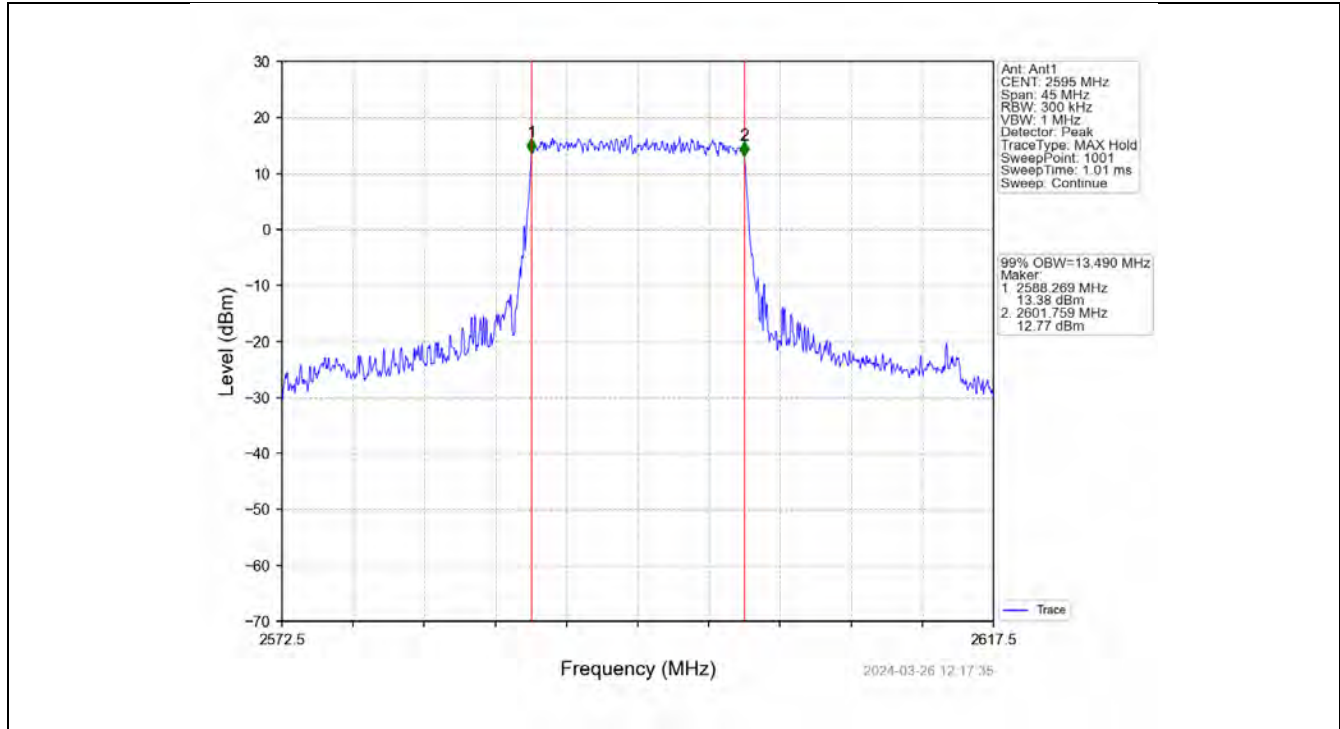


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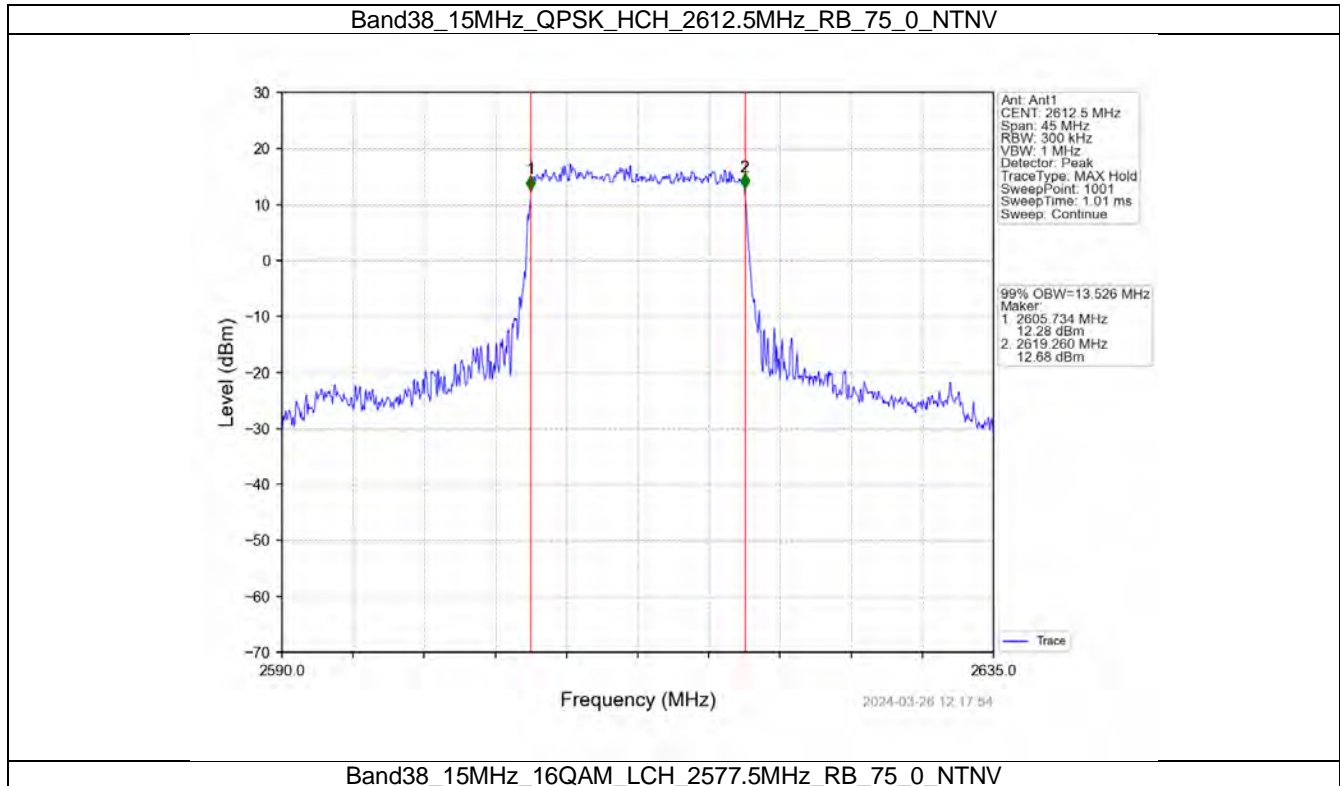


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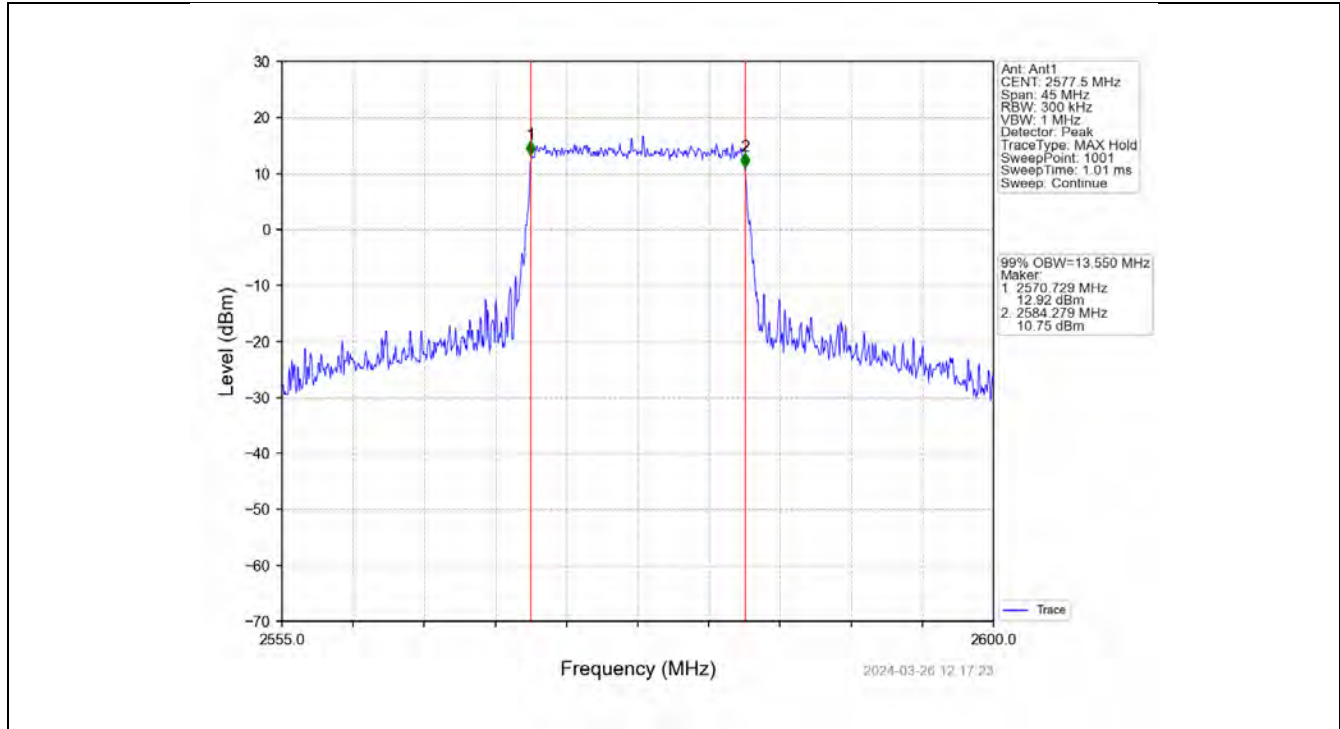


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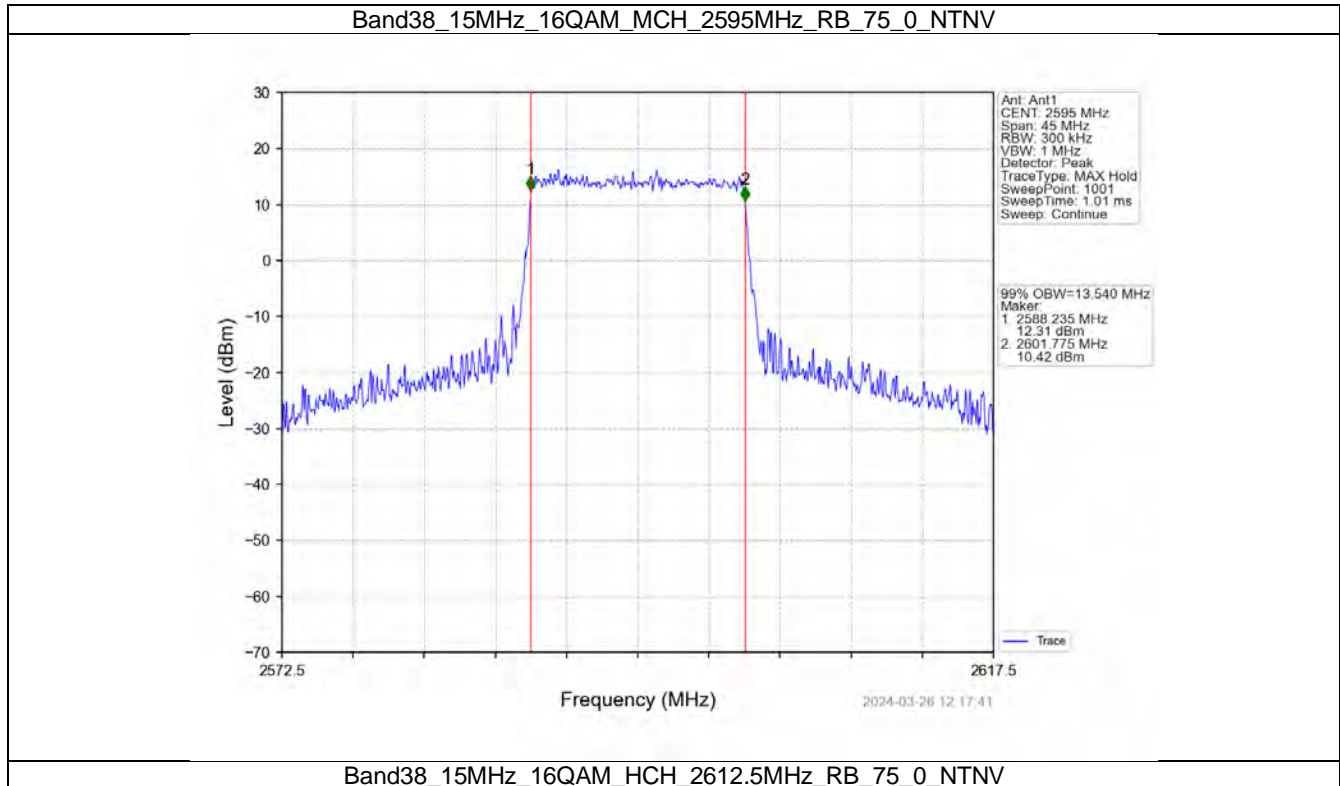


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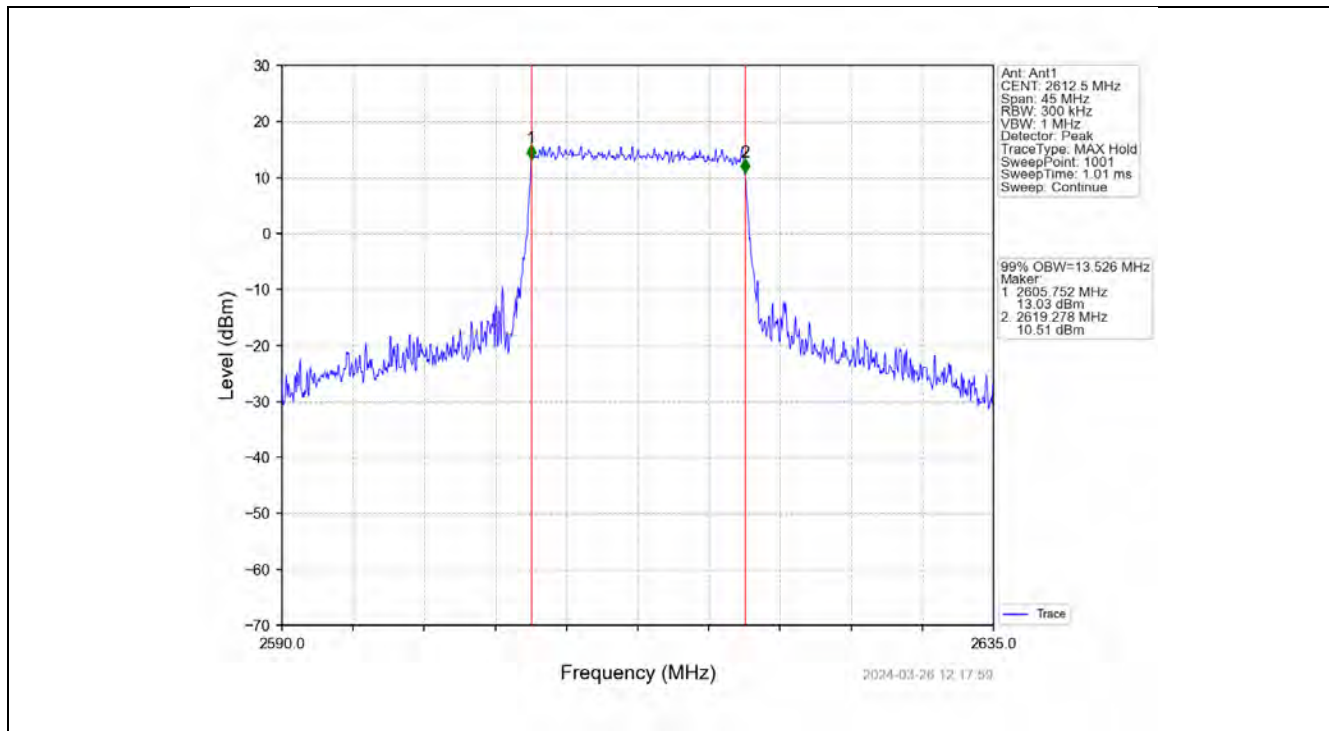
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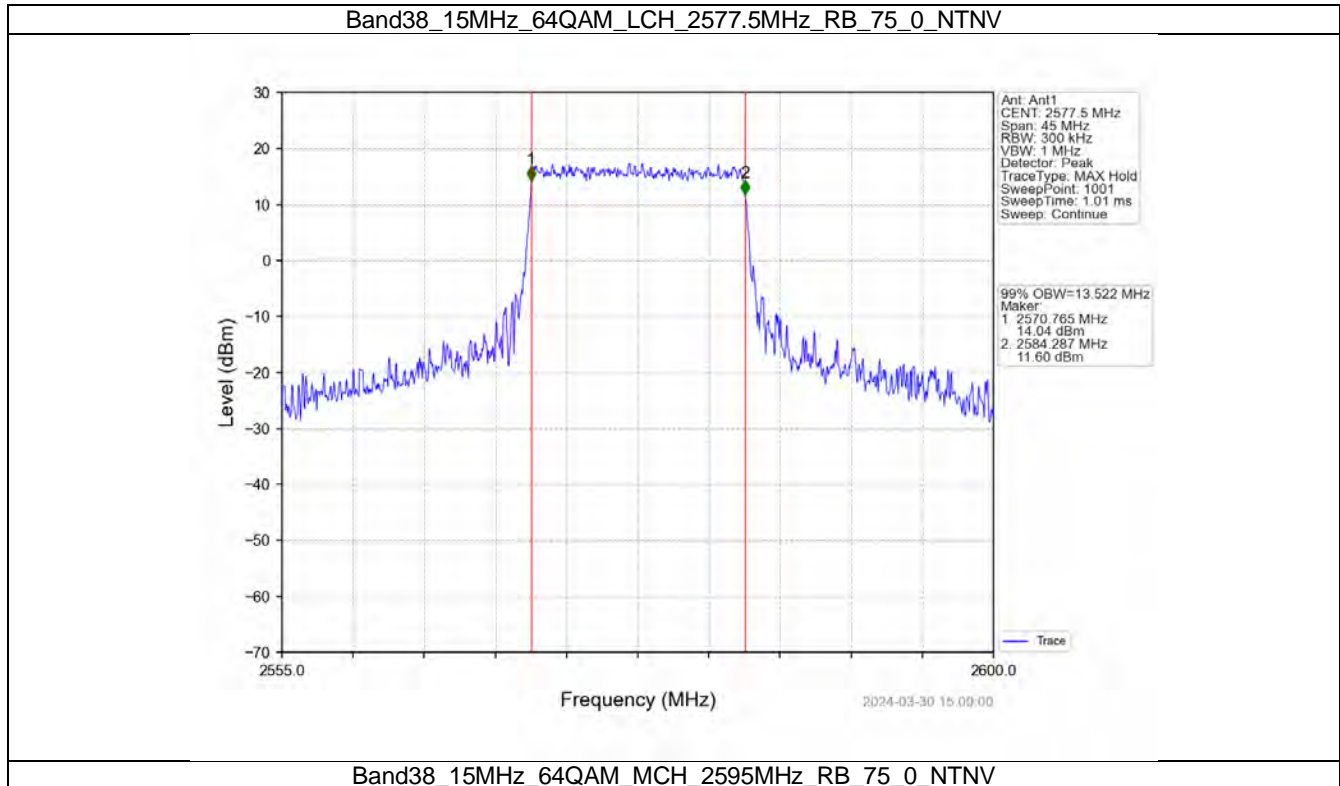


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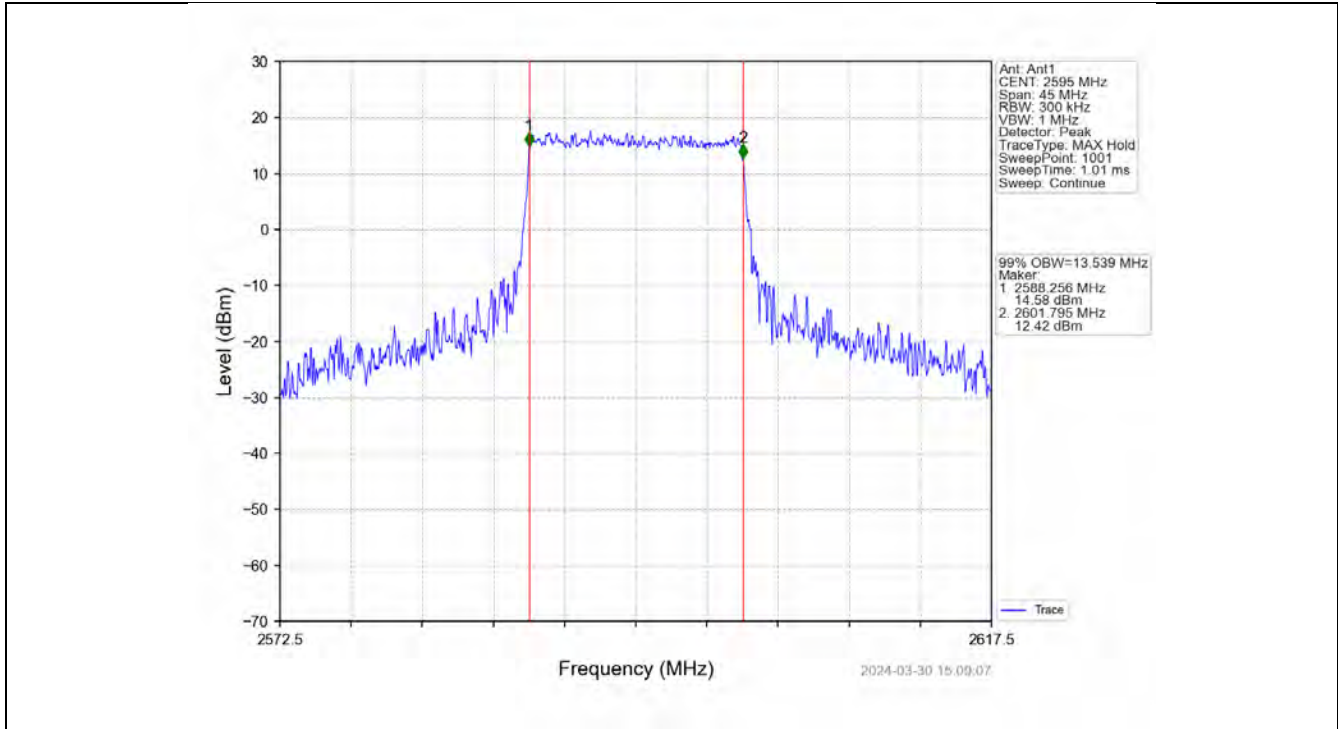


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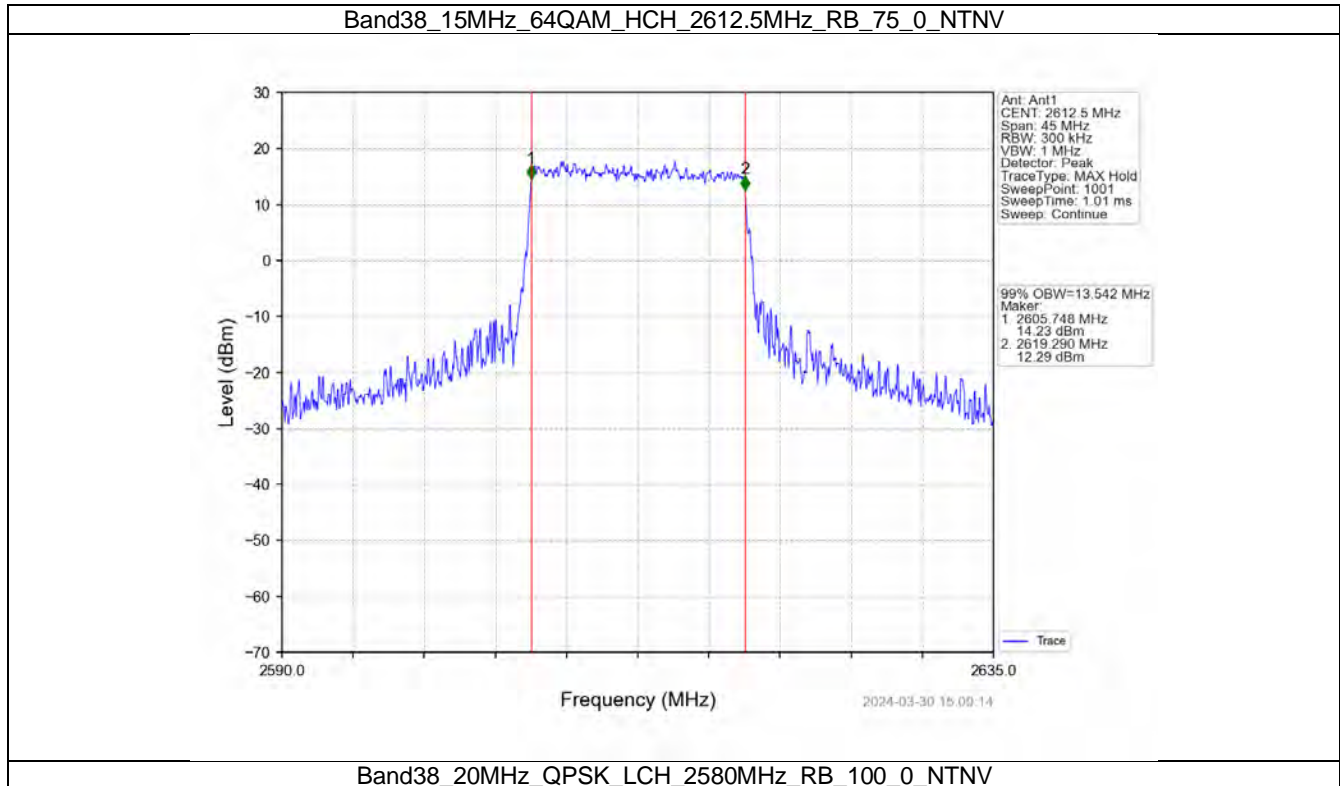


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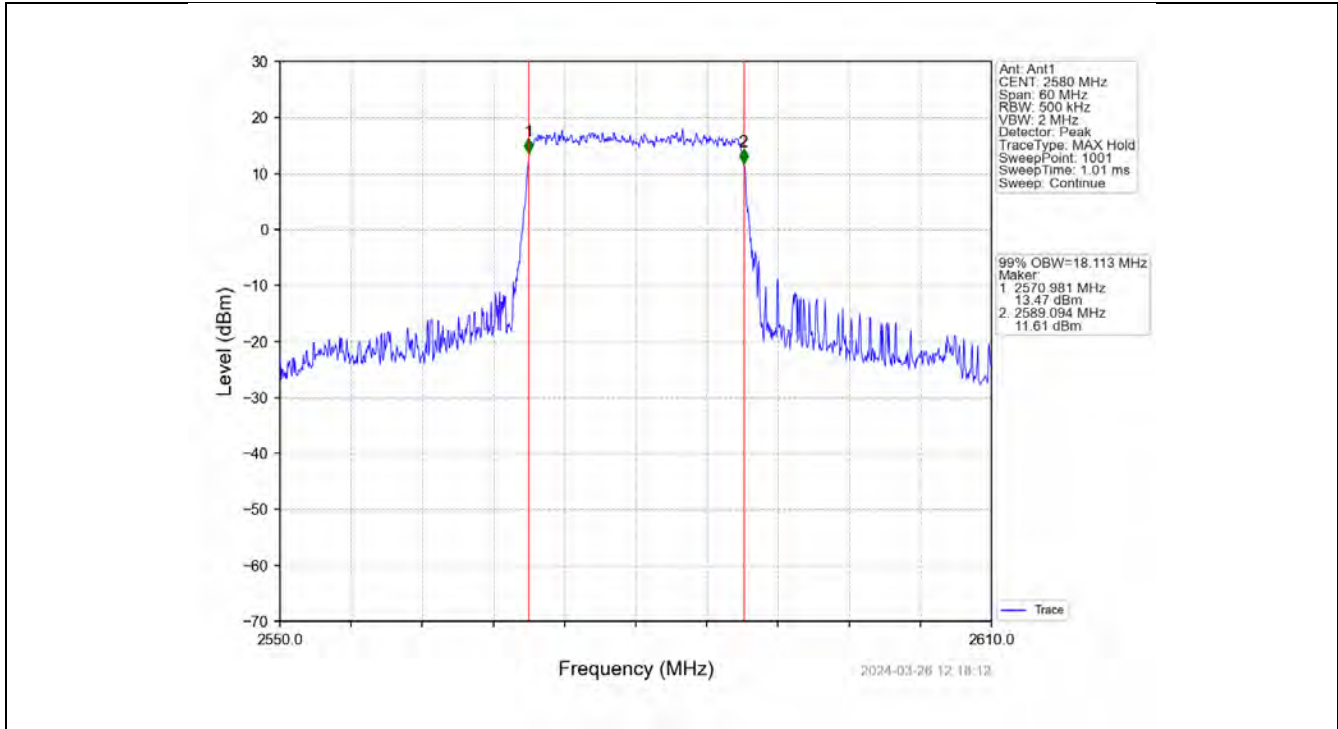


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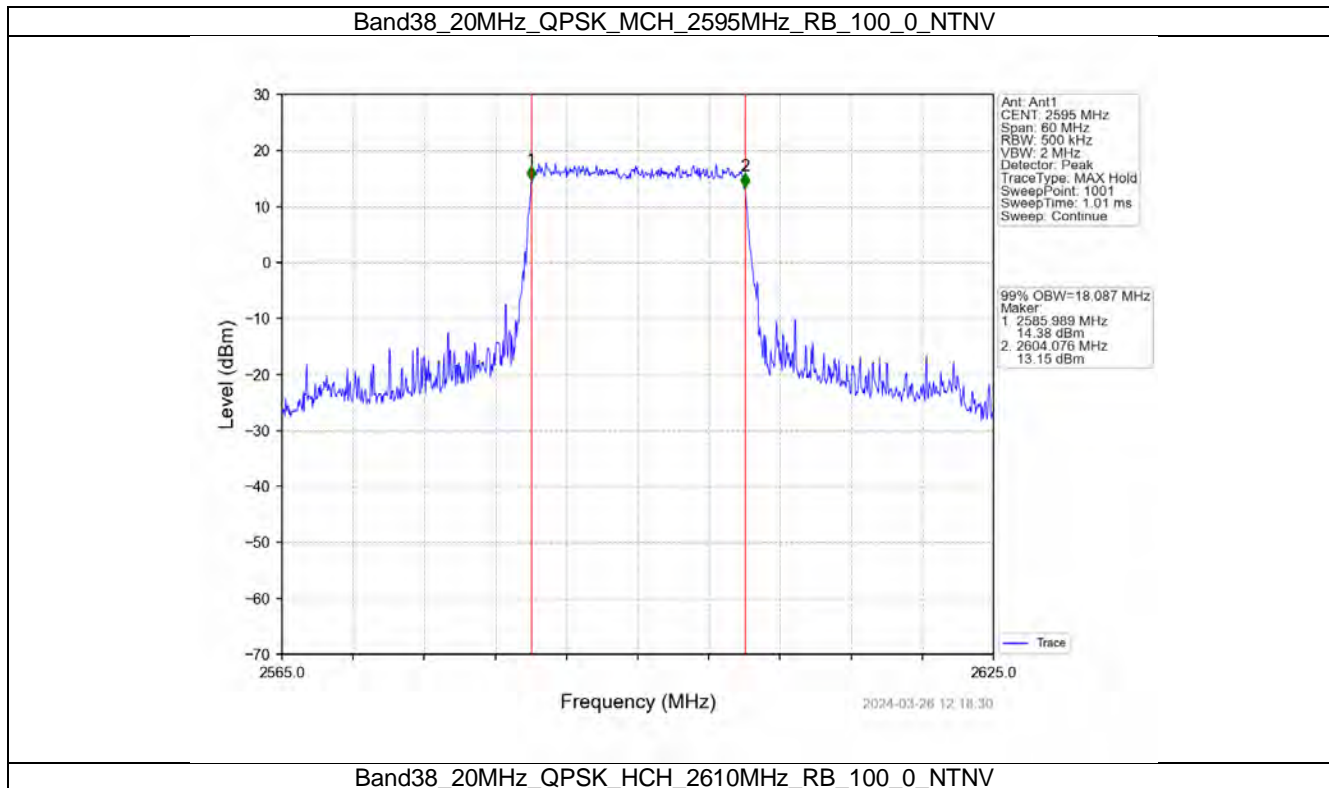
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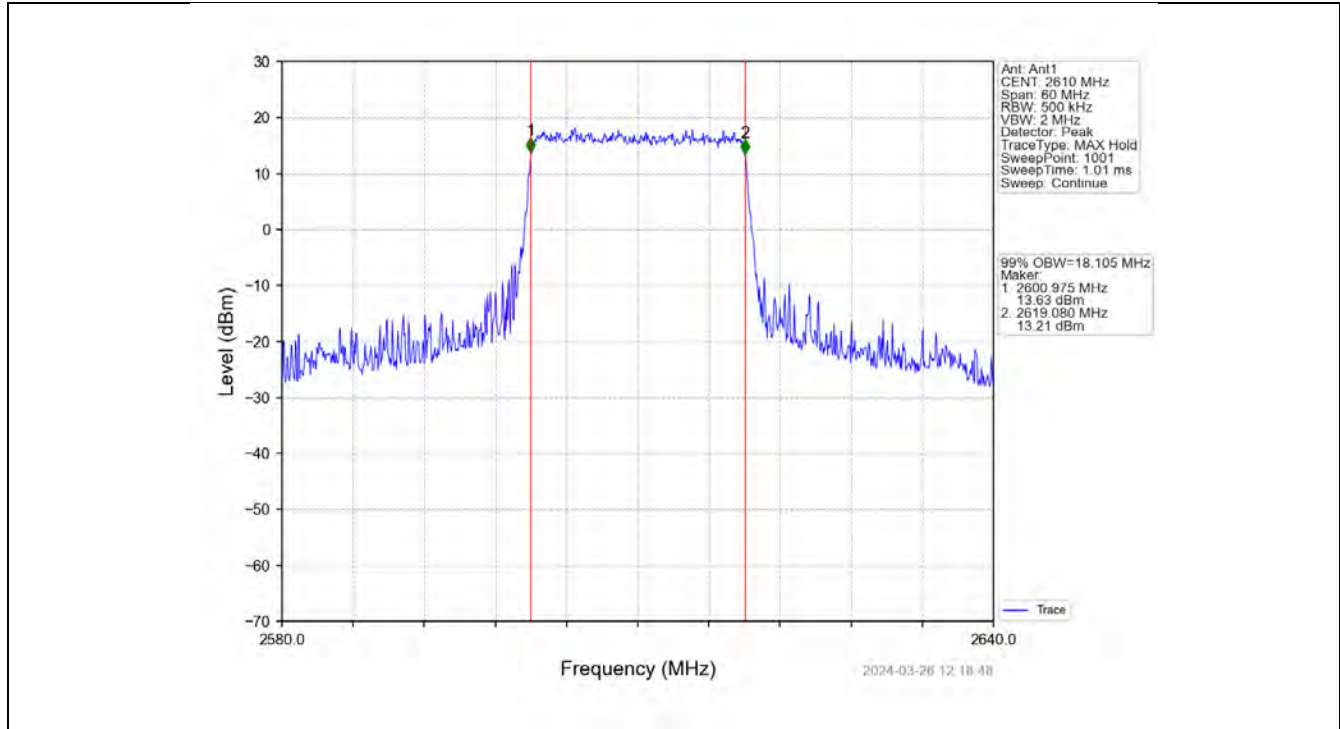


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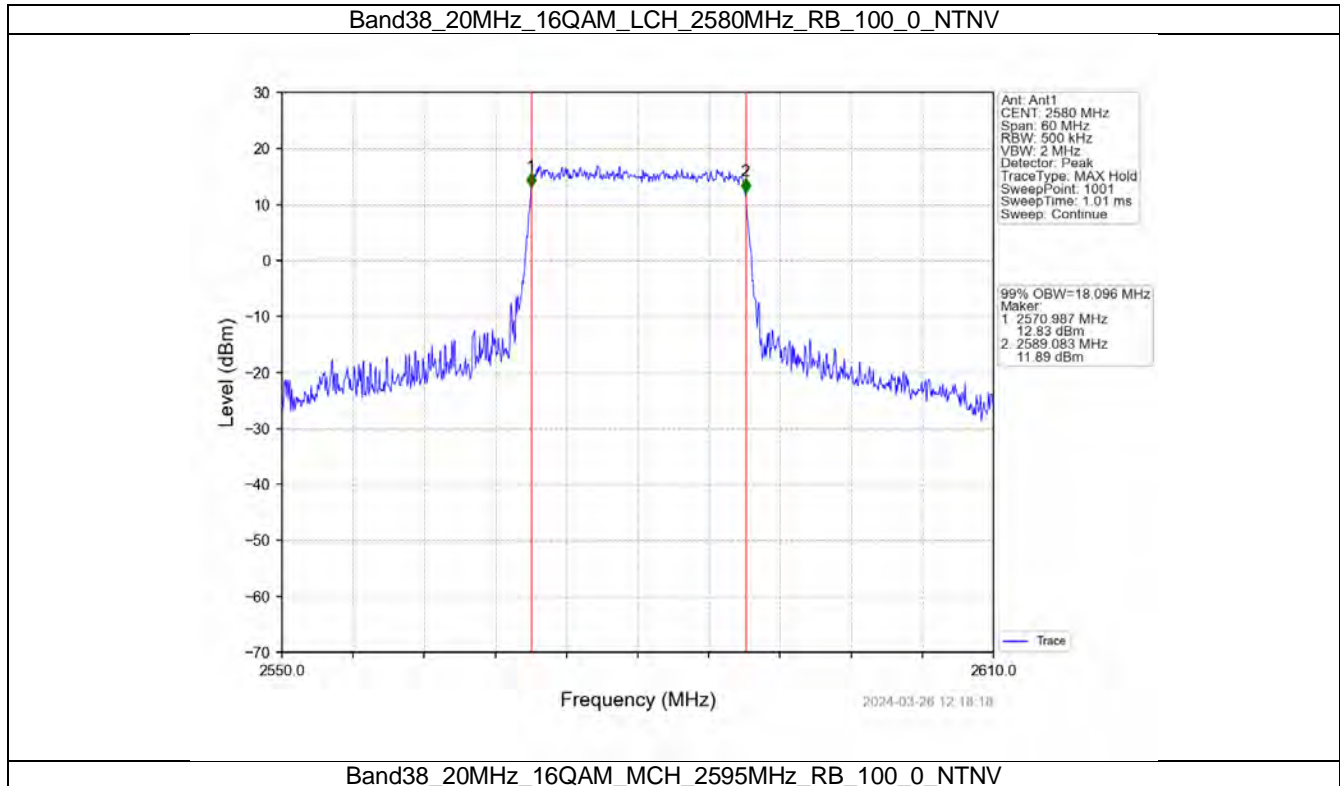


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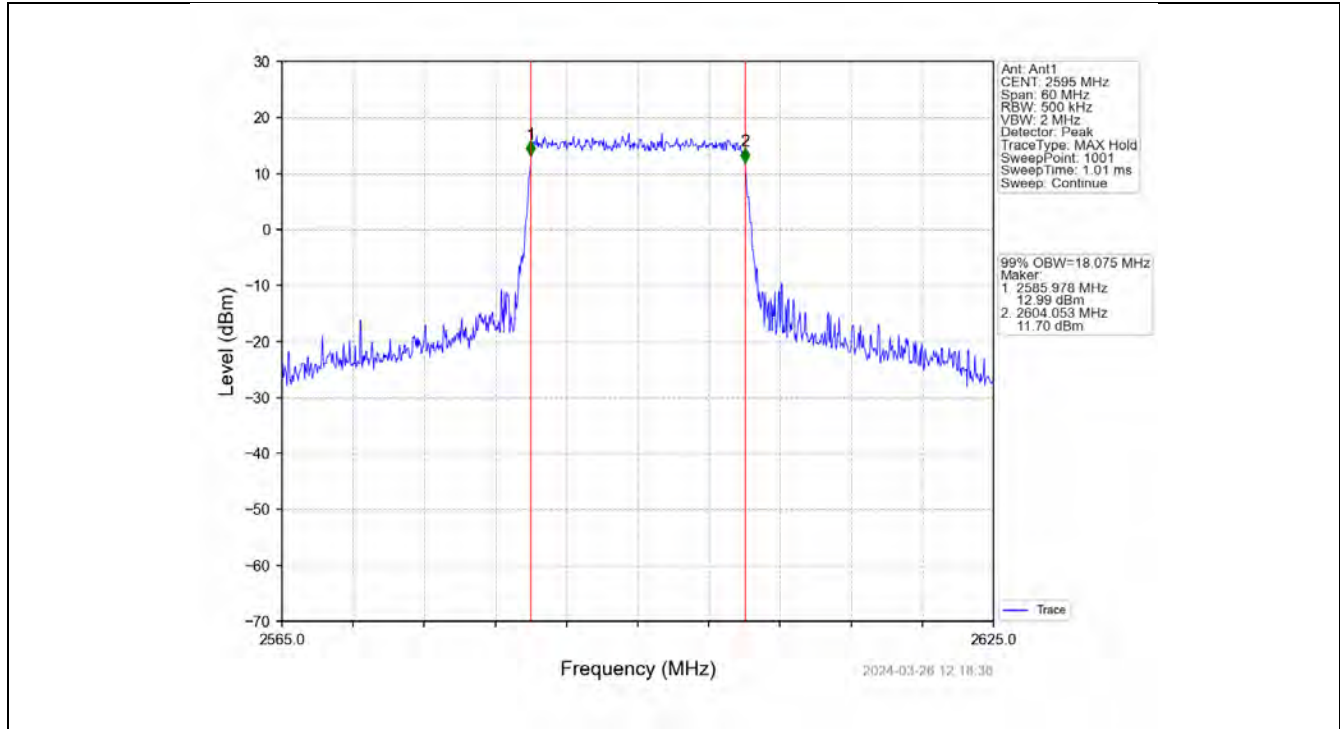


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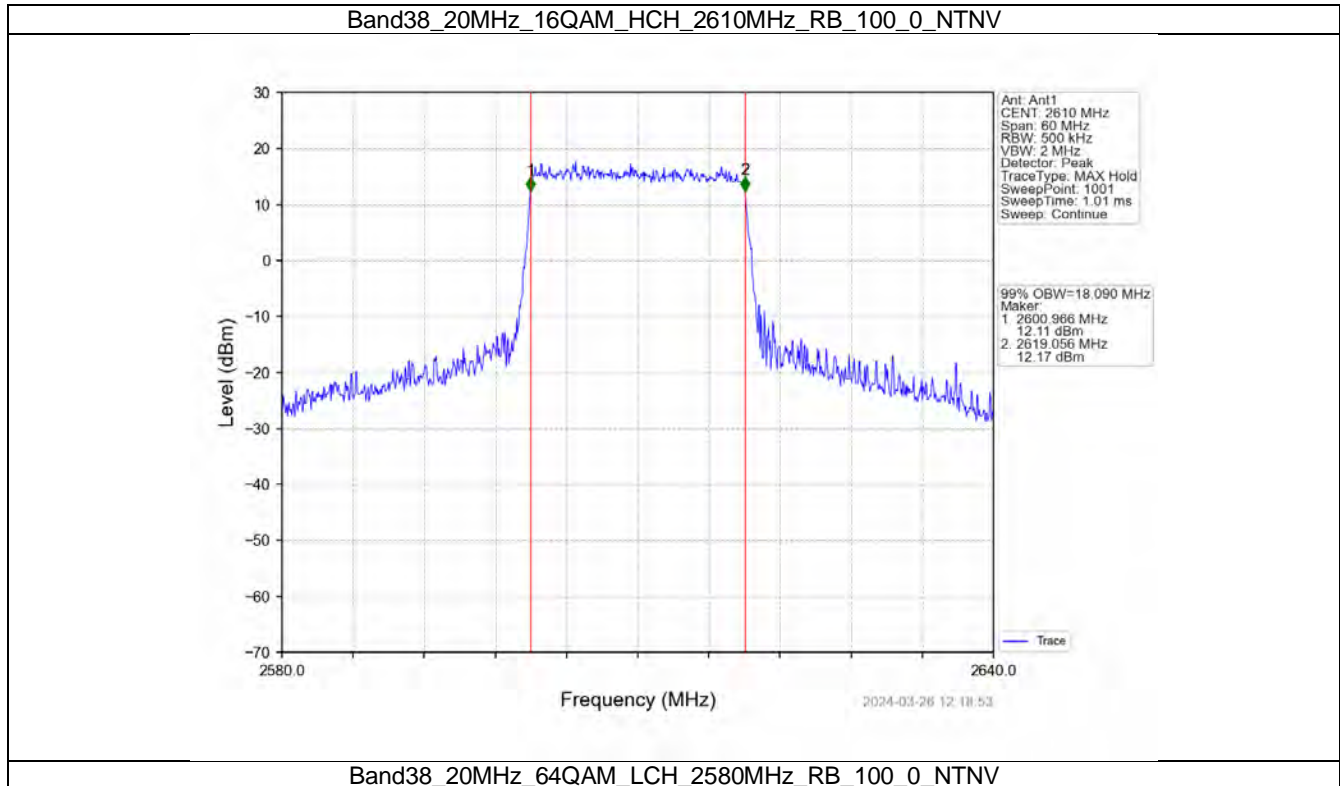


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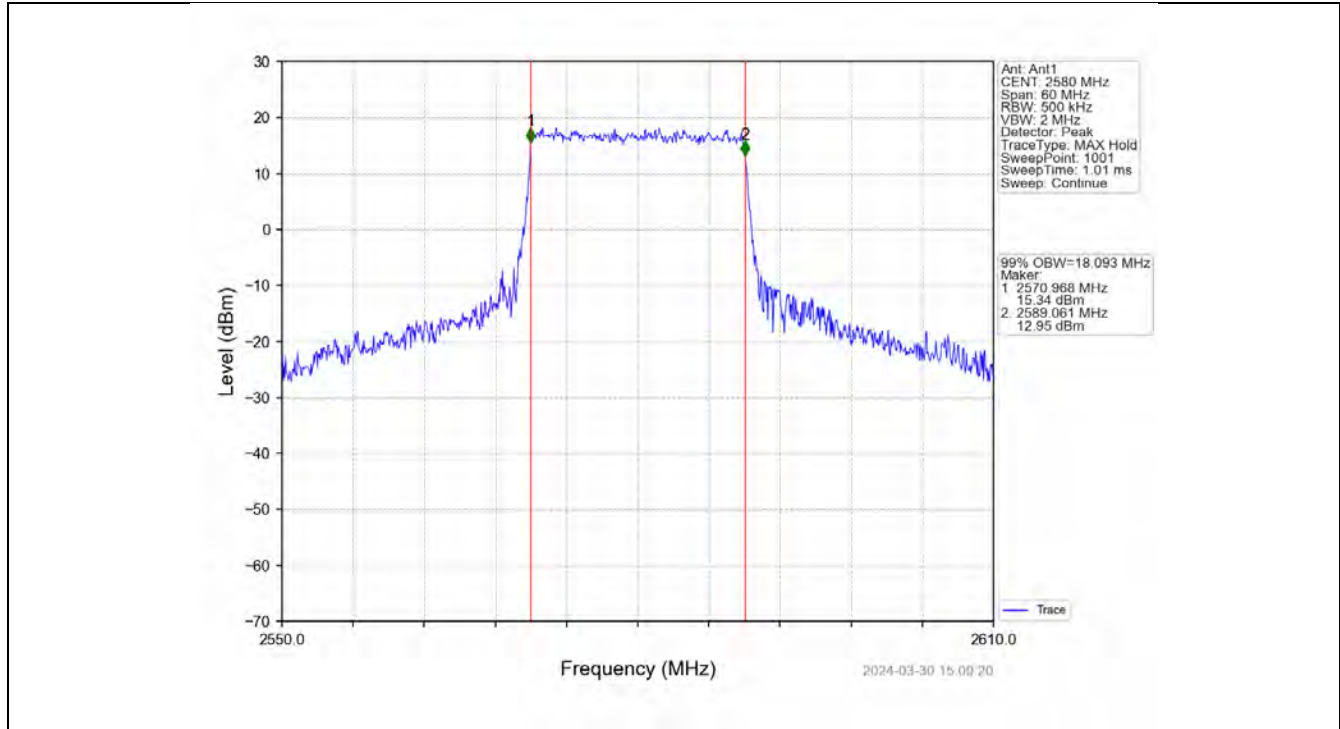


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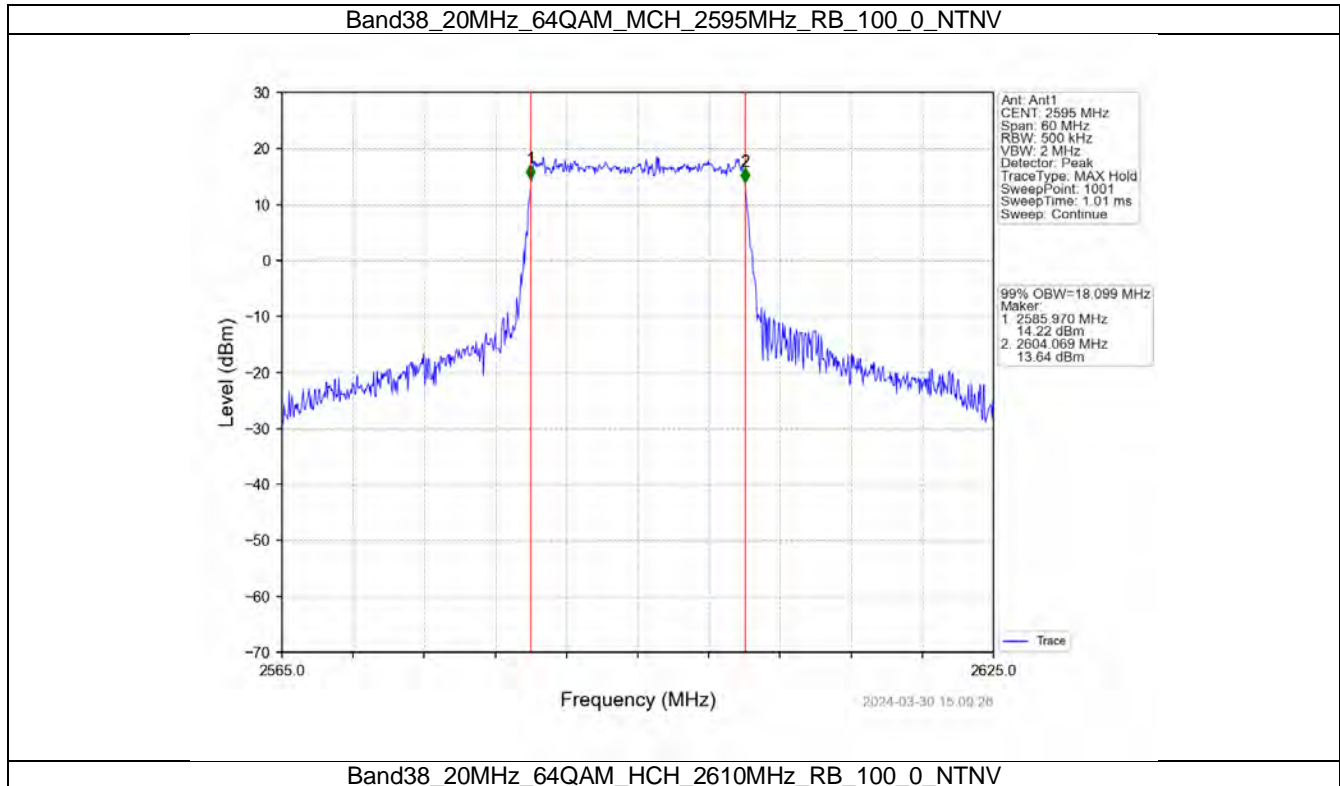


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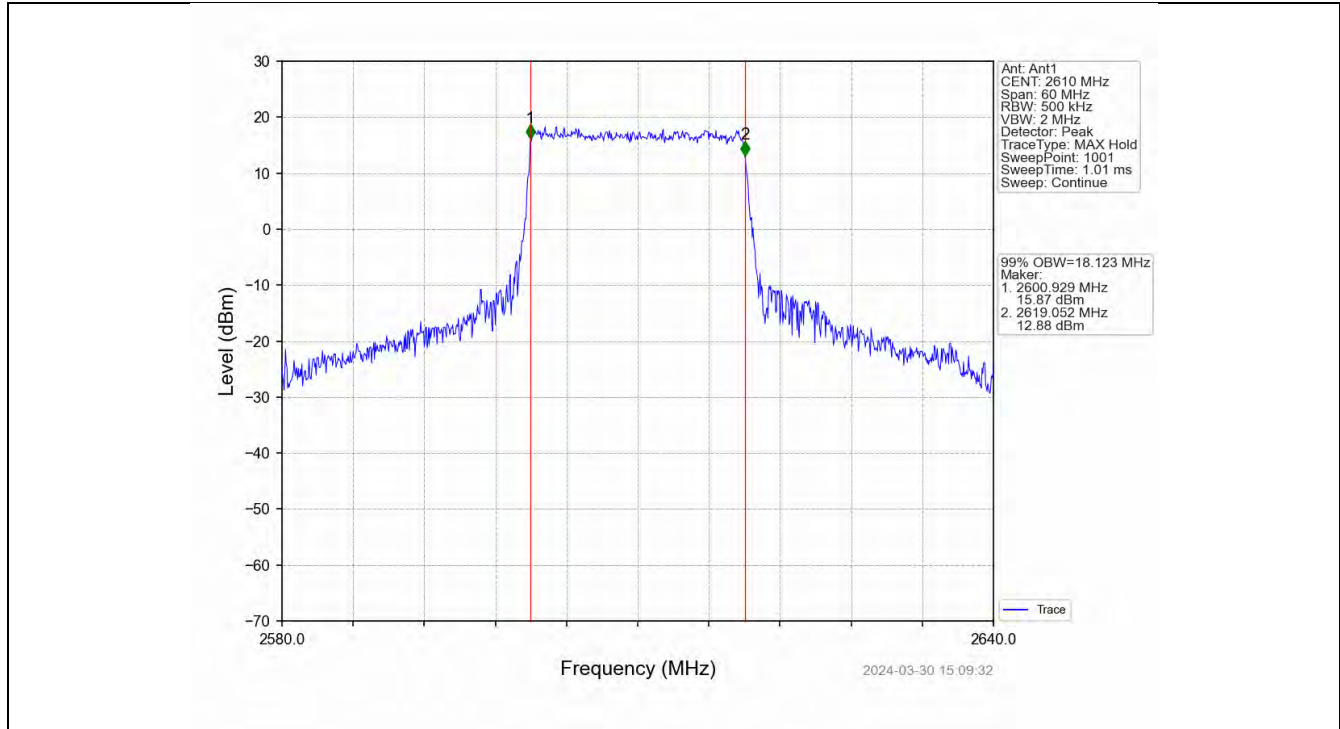


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3.2 Band38_XDB

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	5.083	/	Pass
		2595	25	0	5.199	/	Pass
		2617.5	25	0	5.063	/	Pass
	16QAM	2572.5	25	0	5.122	/	Pass
		2595	25	0	5.130	/	Pass
		2617.5	25	0	5.125	/	Pass
	64QAM	2572.5	25	0	5.141	/	Pass
		2595	25	0	5.191	/	Pass
		2617.5	25	0	5.022	/	Pass
10	QPSK	2575	50	0	9.878	/	Pass
		2595	50	0	9.964	/	Pass
		2615	50	0	10.046	/	Pass
	16QAM	2575	50	0	10.092	/	Pass
		2595	50	0	9.844	/	Pass
		2615	50	0	9.973	/	Pass
	64QAM	2575	50	0	9.935	/	Pass
		2595	50	0	10.033	/	Pass
		2615	50	0	9.947	/	Pass
15	QPSK	2577.5	75	0	14.821	/	Pass
		2595	75	0	15.114	/	Pass
		2612.5	75	0	14.929	/	Pass
	16QAM	2577.5	75	0	15.172	/	Pass
		2595	75	0	15.409	/	Pass
		2612.5	75	0	16.200	/	Pass
	64QAM	2577.5	75	0	16.360	/	Pass
		2595	75	0	15.465	/	Pass
		2612.5	75	0	16.077	/	Pass
20	QPSK	2580	100	0	20.413	/	Pass
		2595	100	0	21.353	/	Pass
		2610	100	0	20.678	/	Pass
	16QAM	2580	100	0	20.991	/	Pass
		2595	100	0	20.165	/	Pass
		2610	100	0	20.232	/	Pass
	64QAM	2580	100	0	21.570	/	Pass
		2595	100	0	20.235	/	Pass
		2610	100	0	20.370	/	Pass



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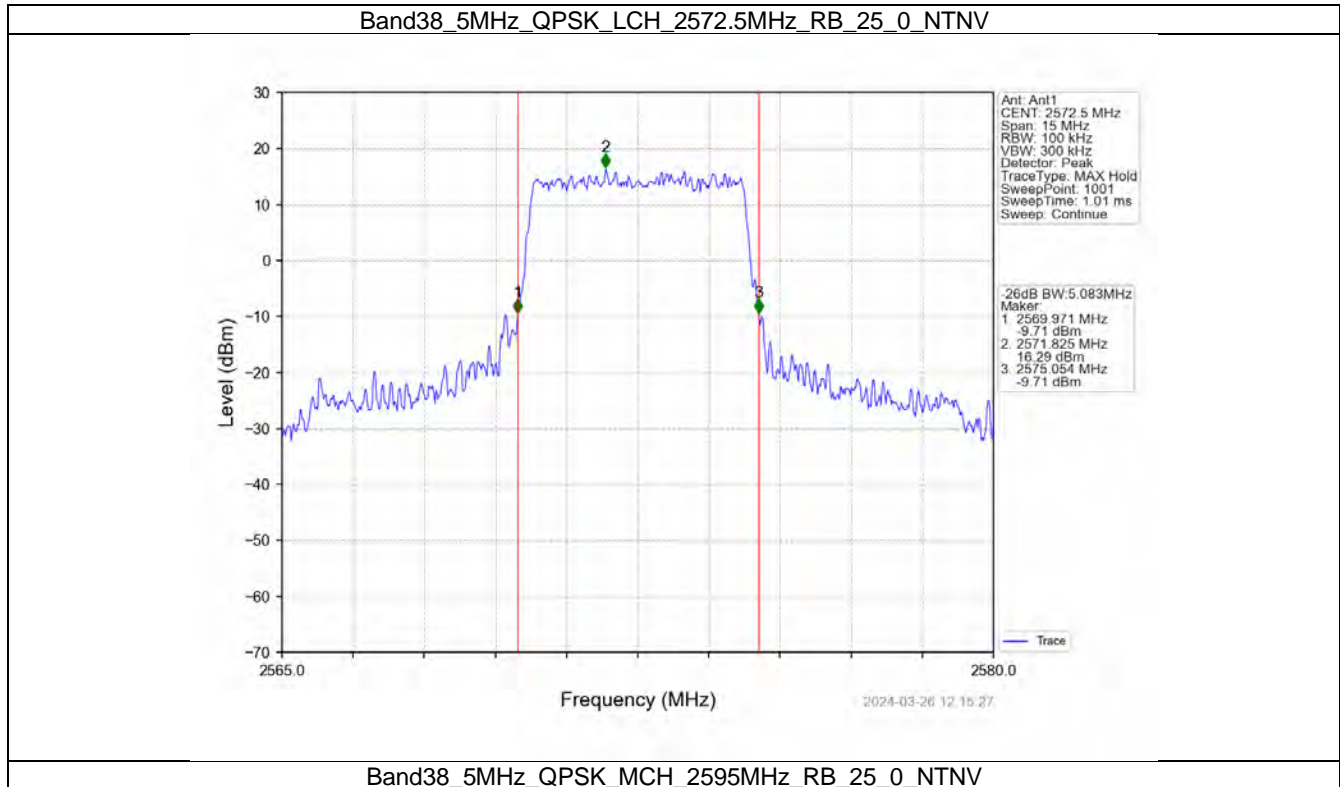
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3.2.2 Test Graph



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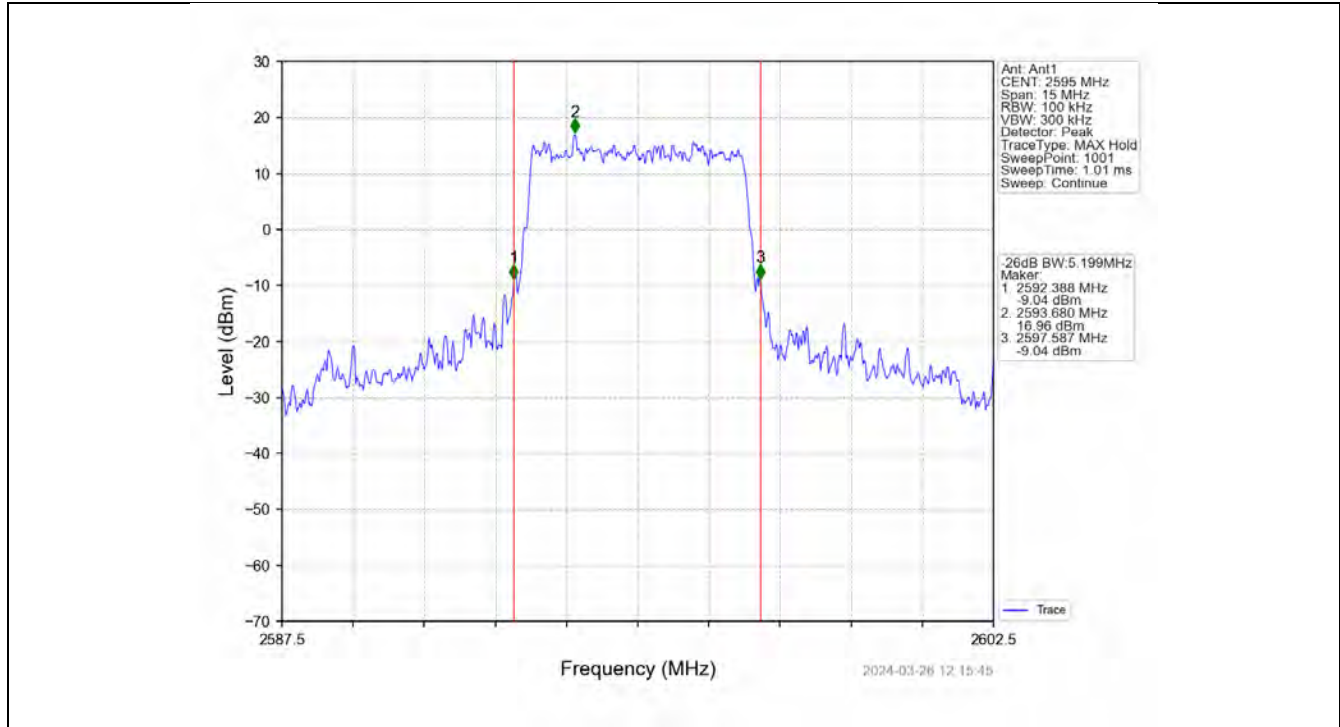


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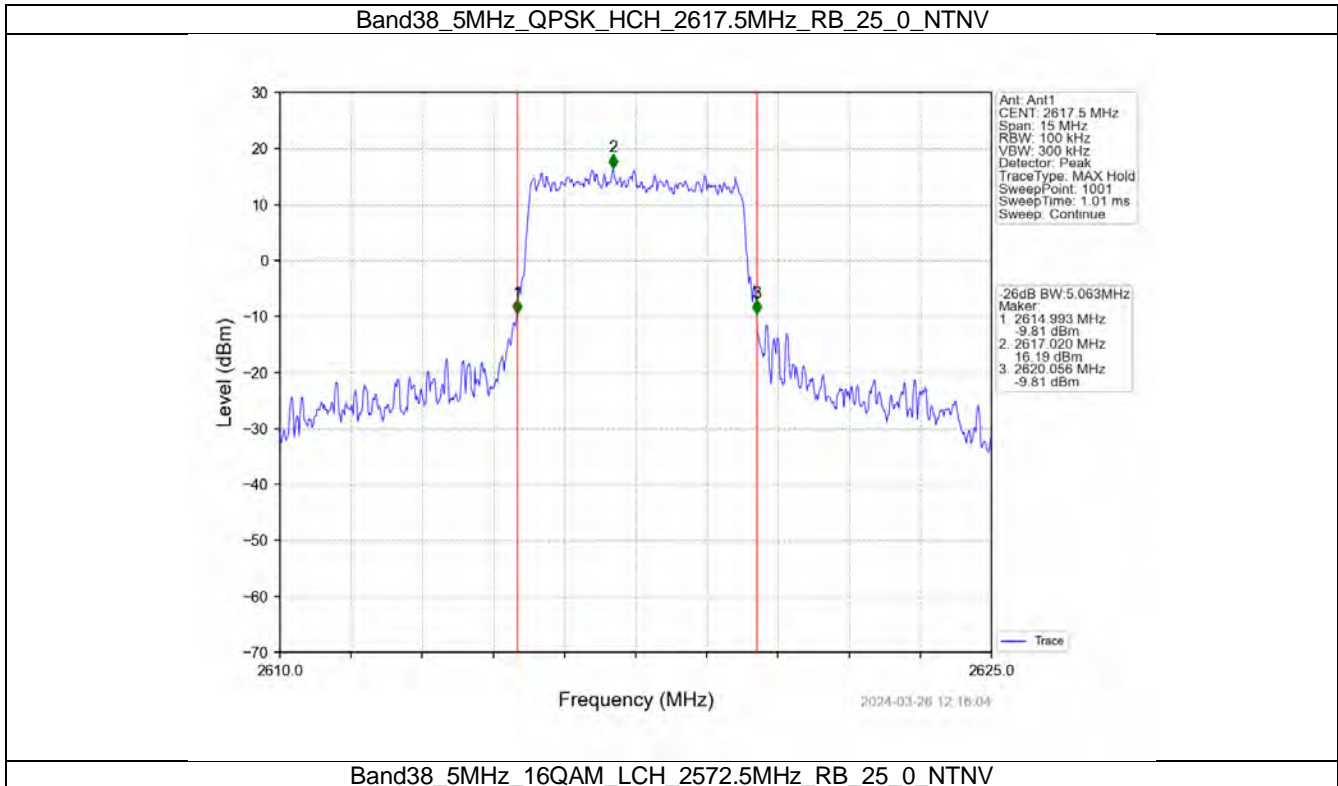


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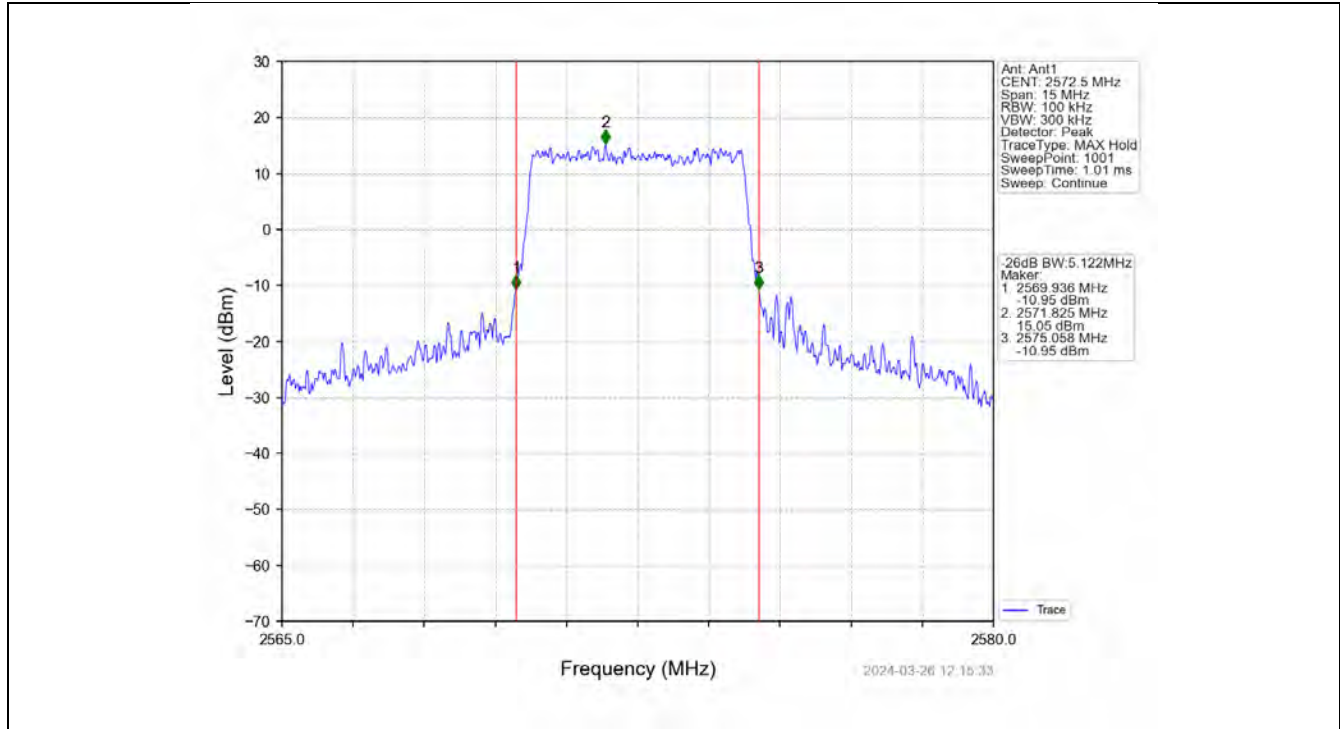


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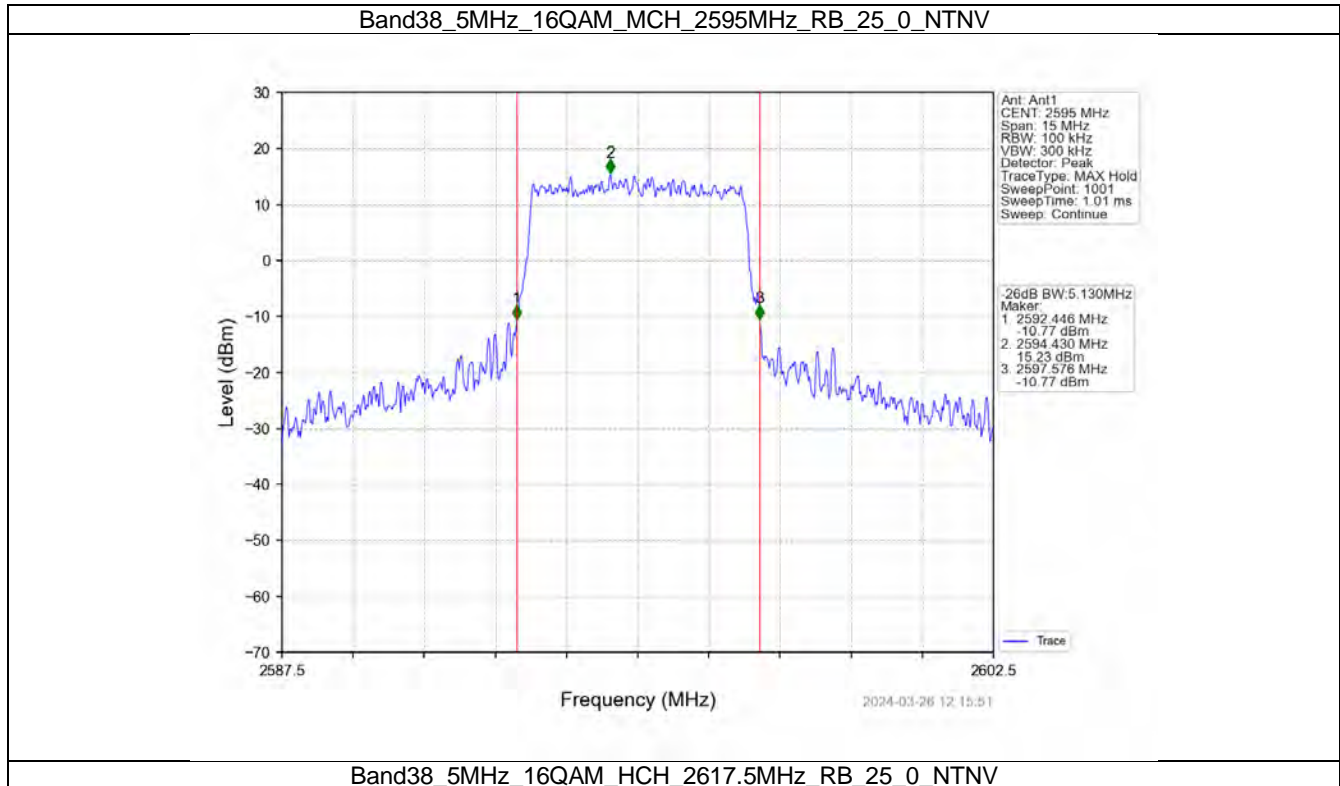


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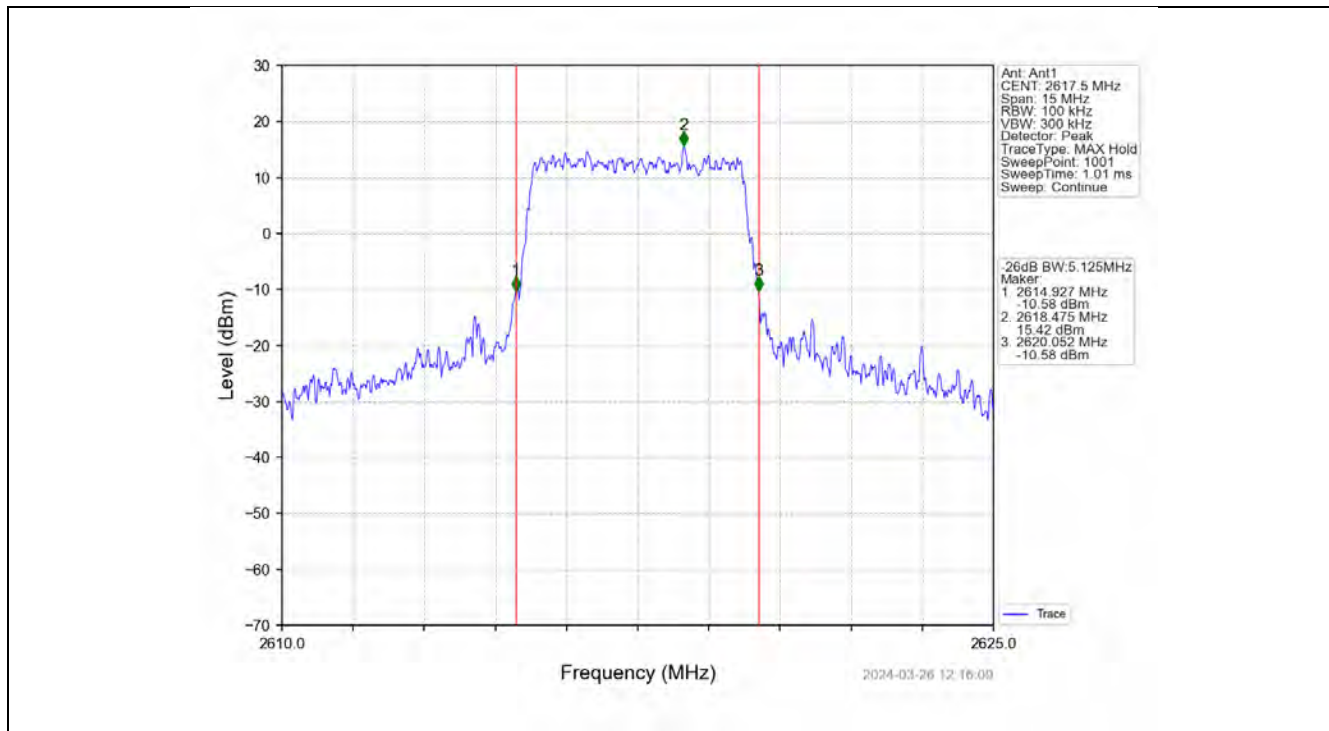
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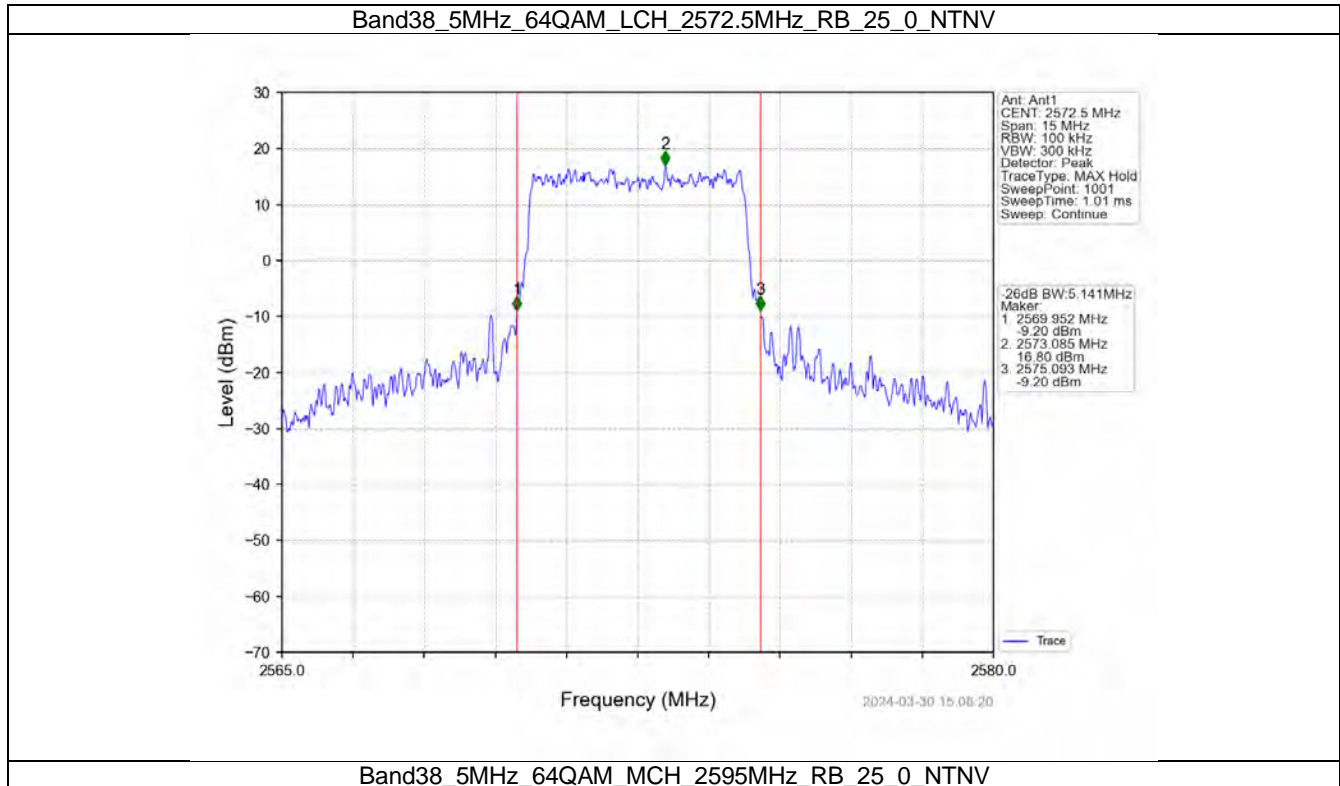


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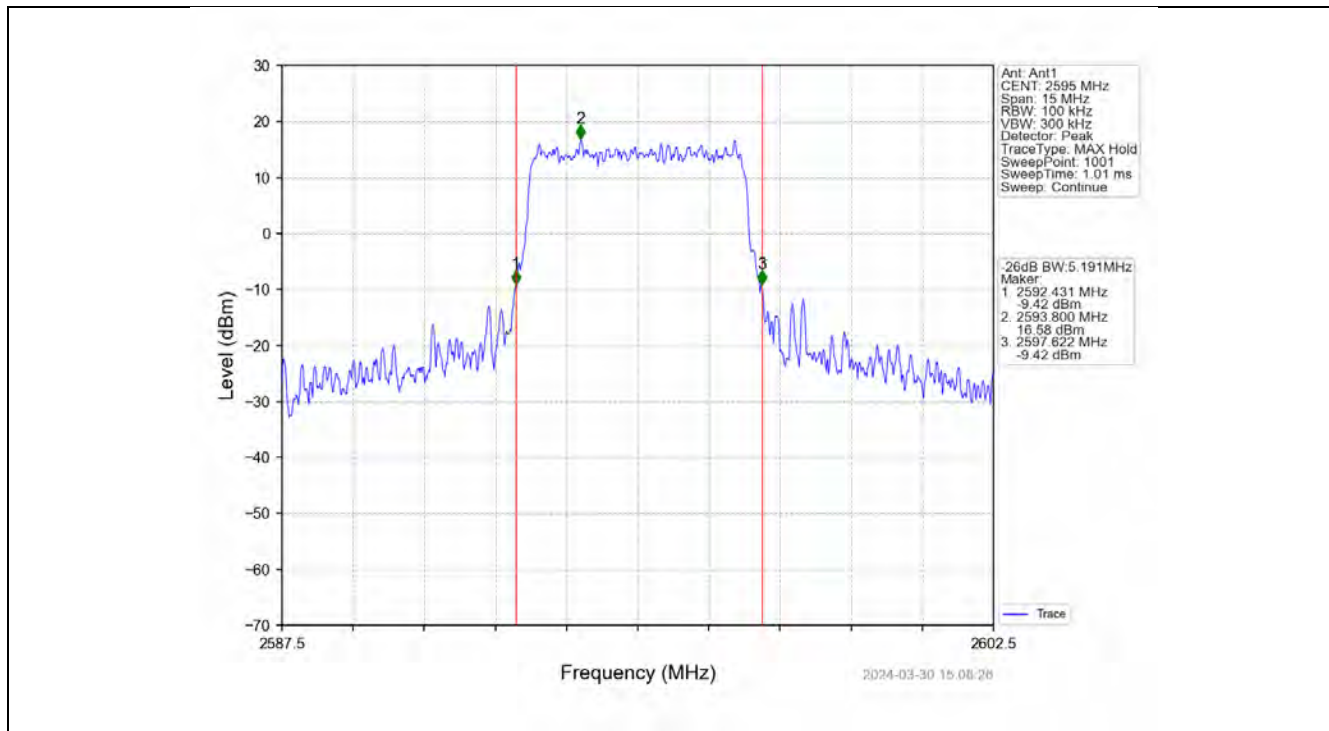
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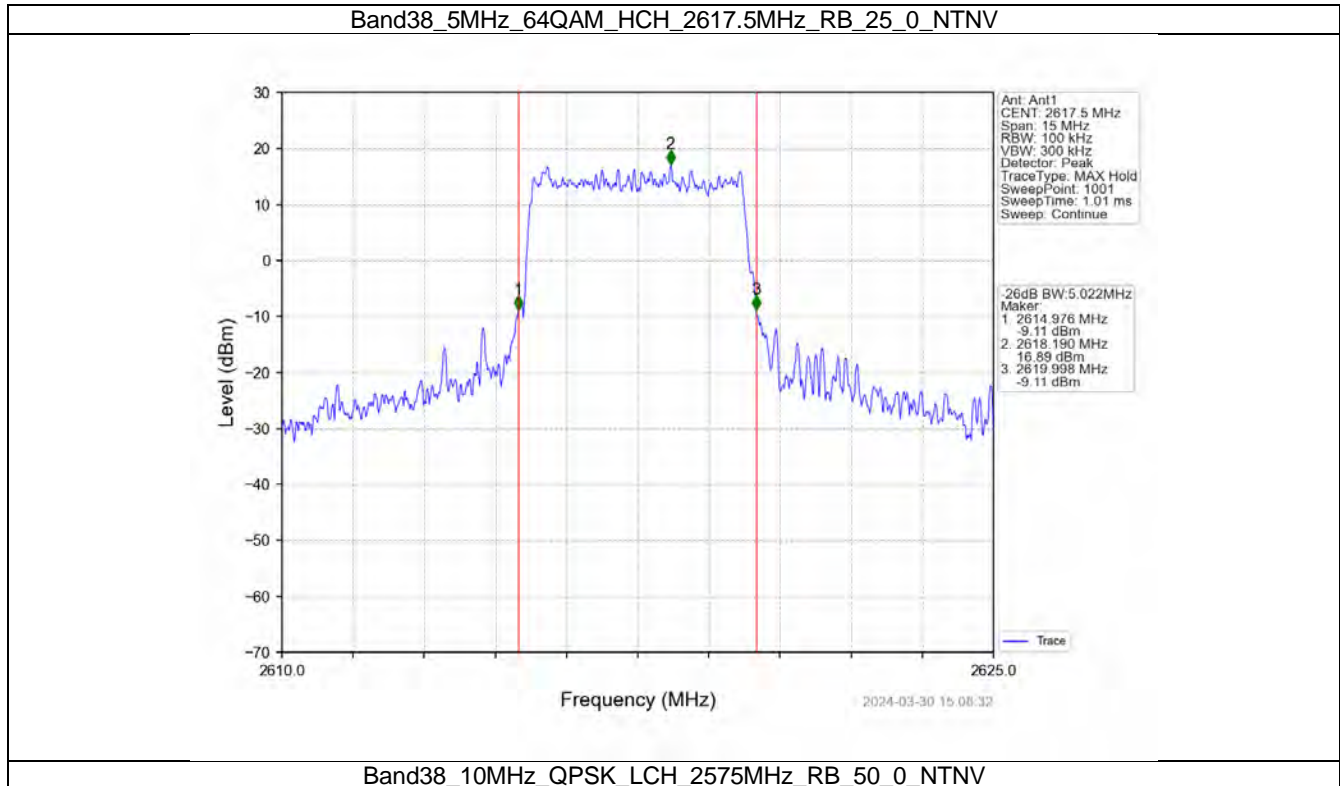


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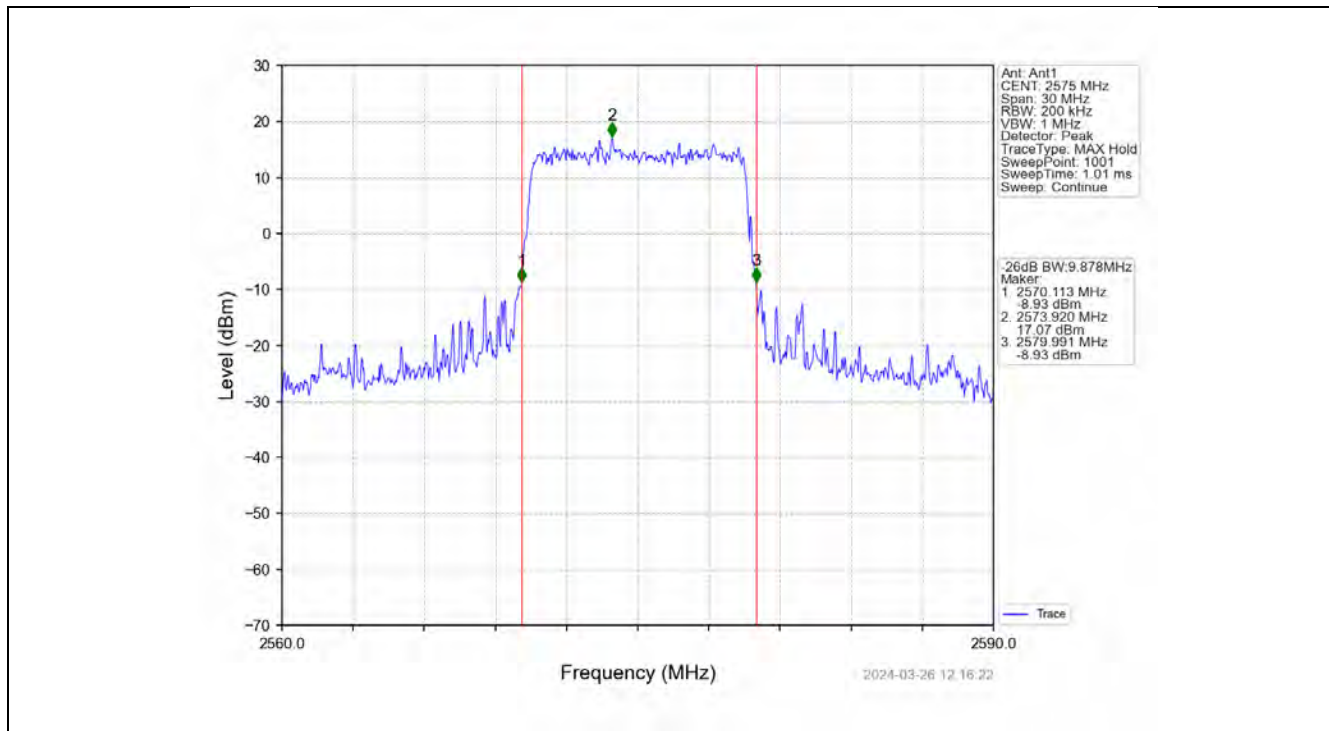
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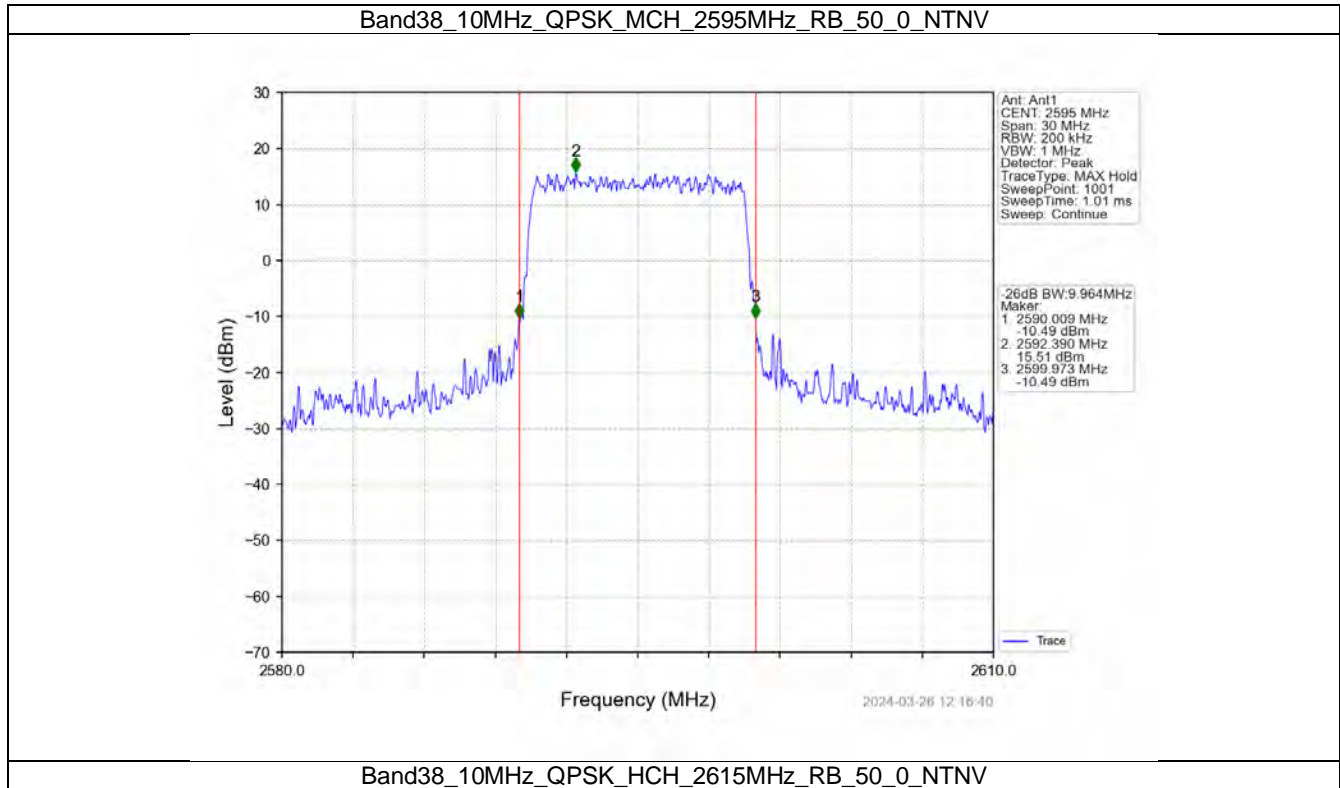


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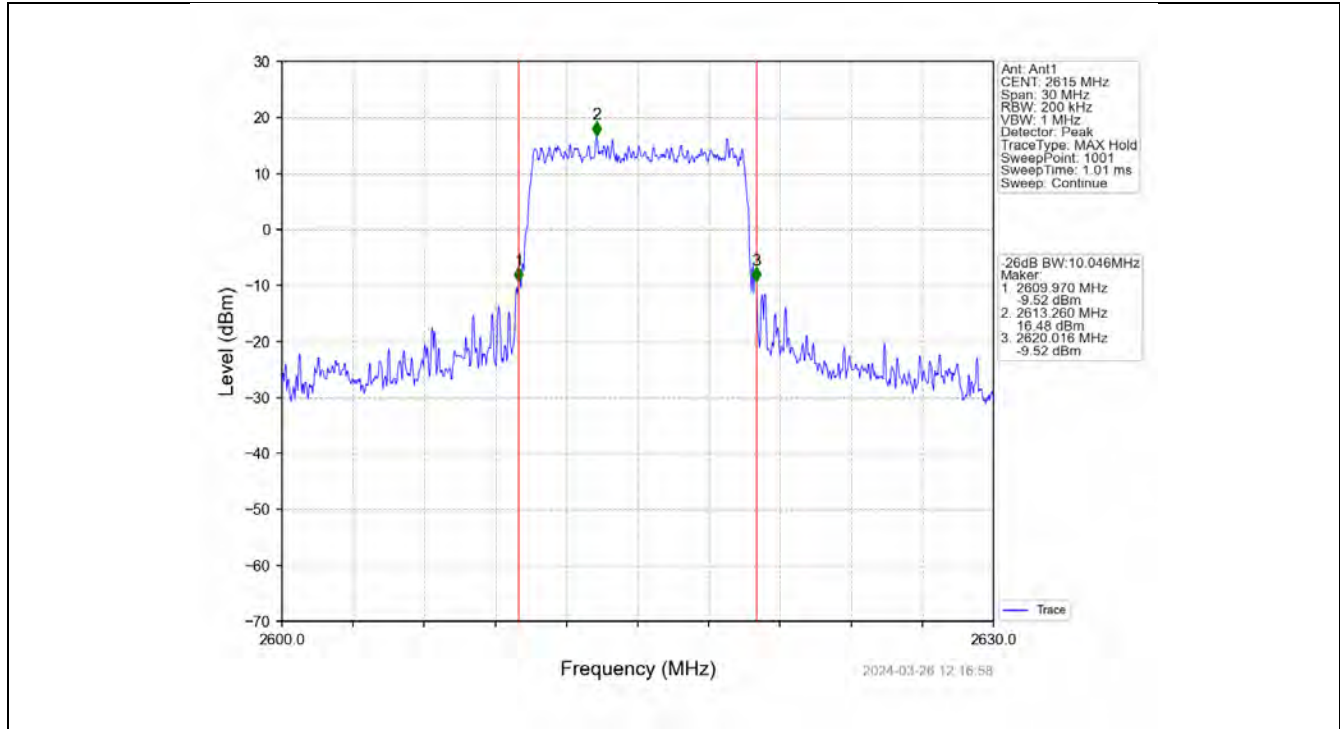


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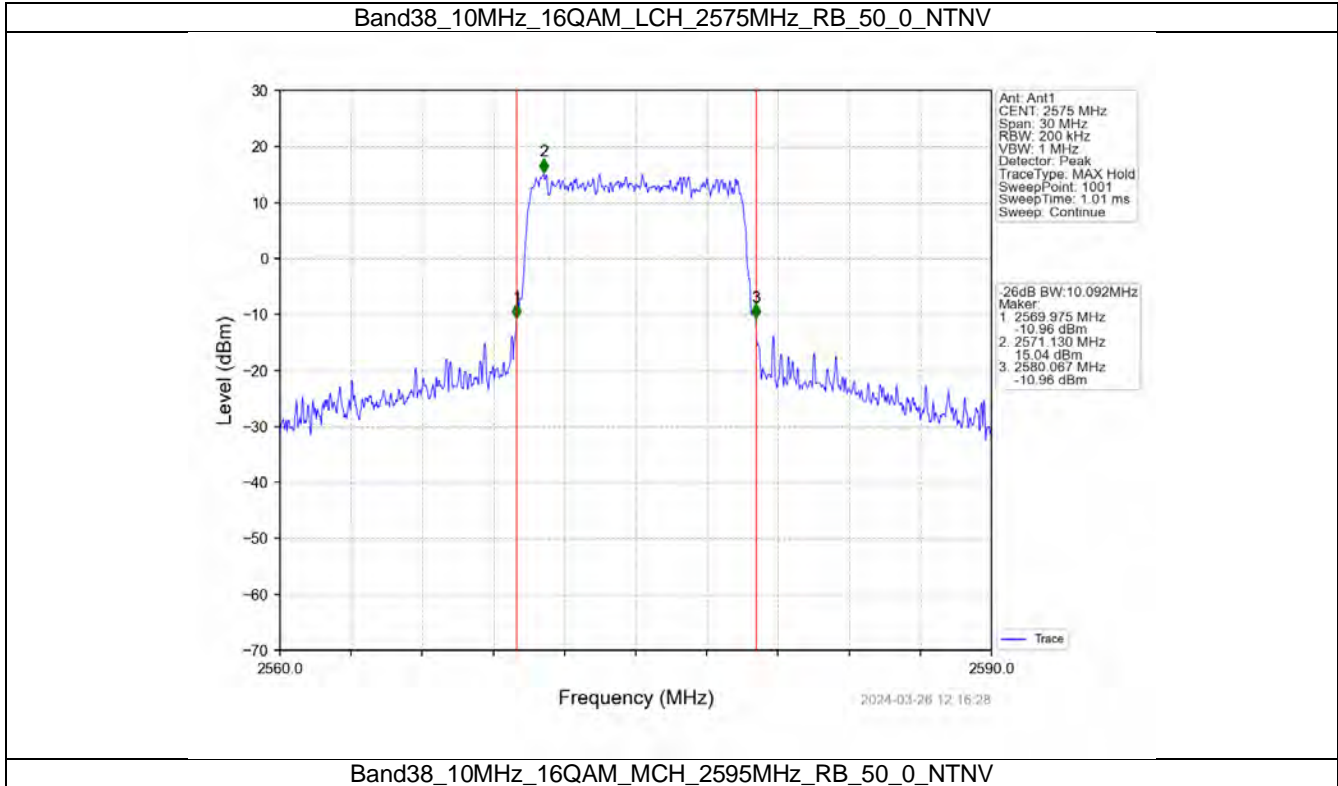


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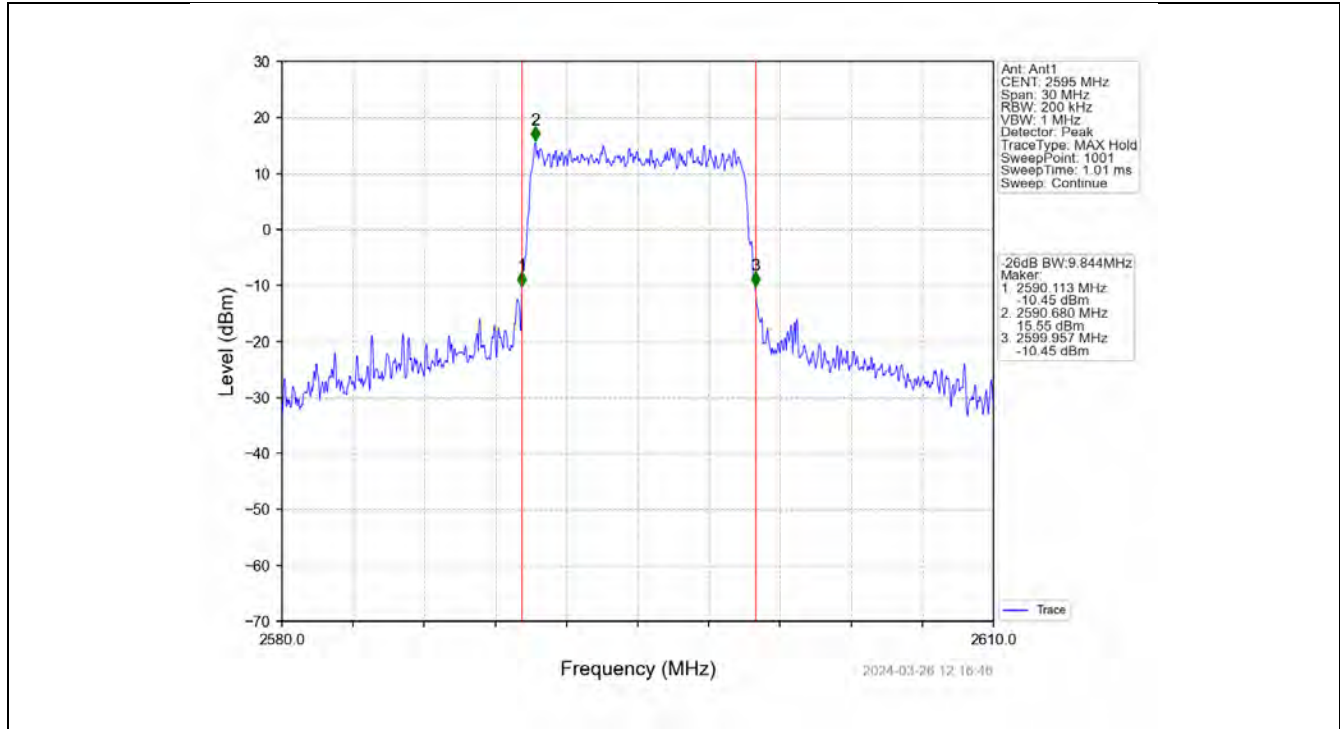


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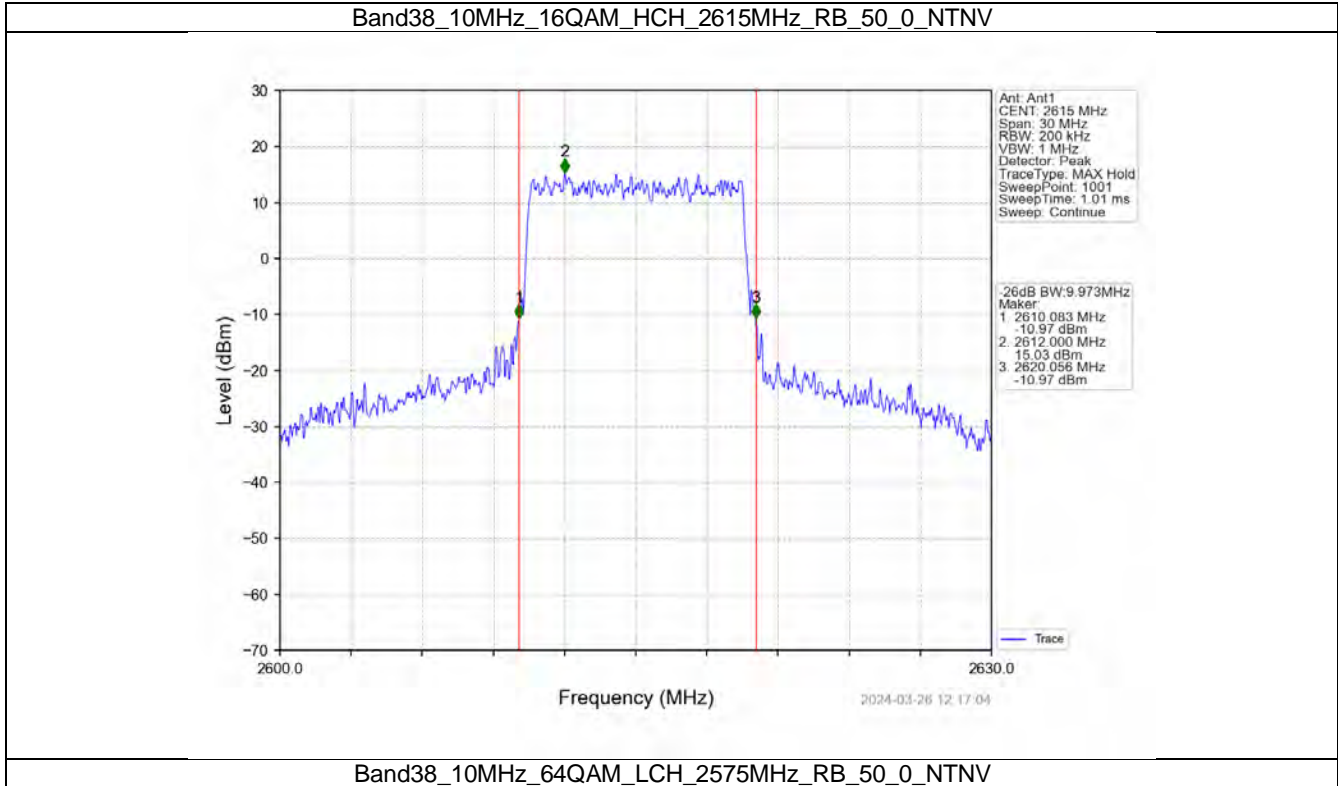


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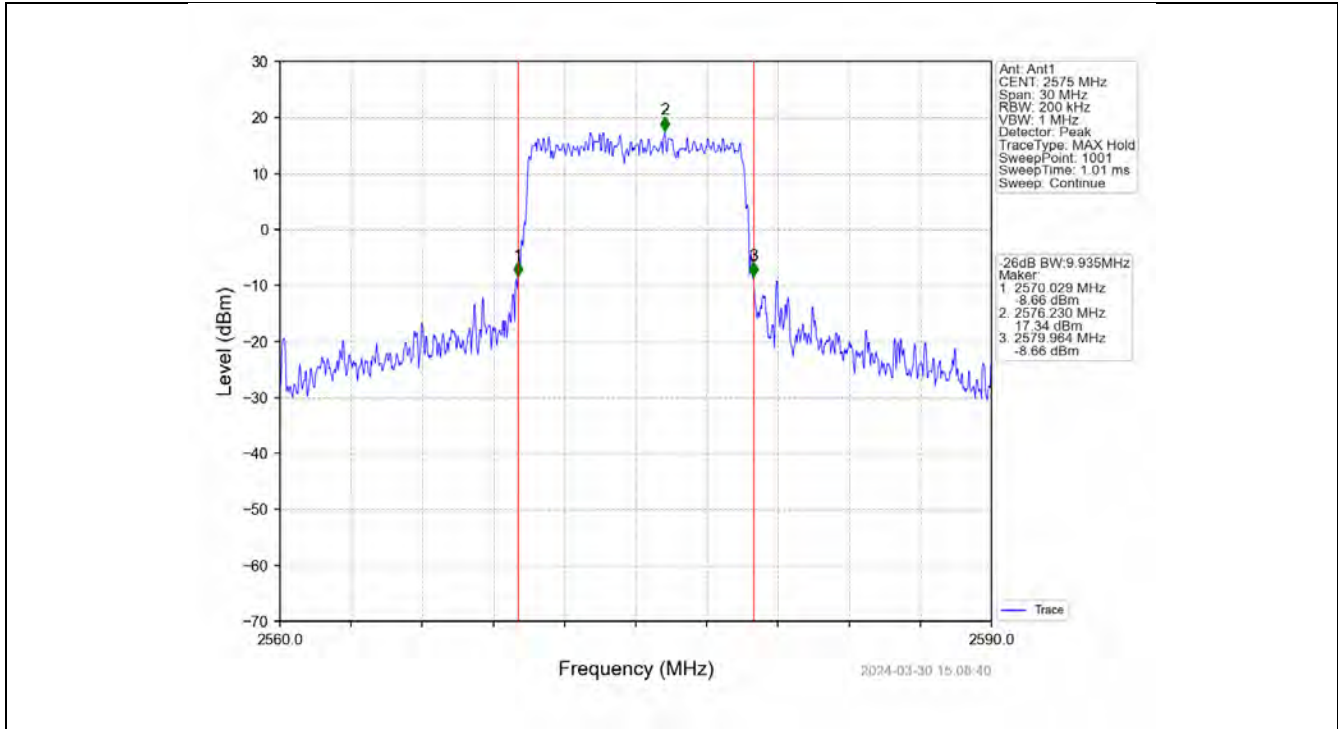


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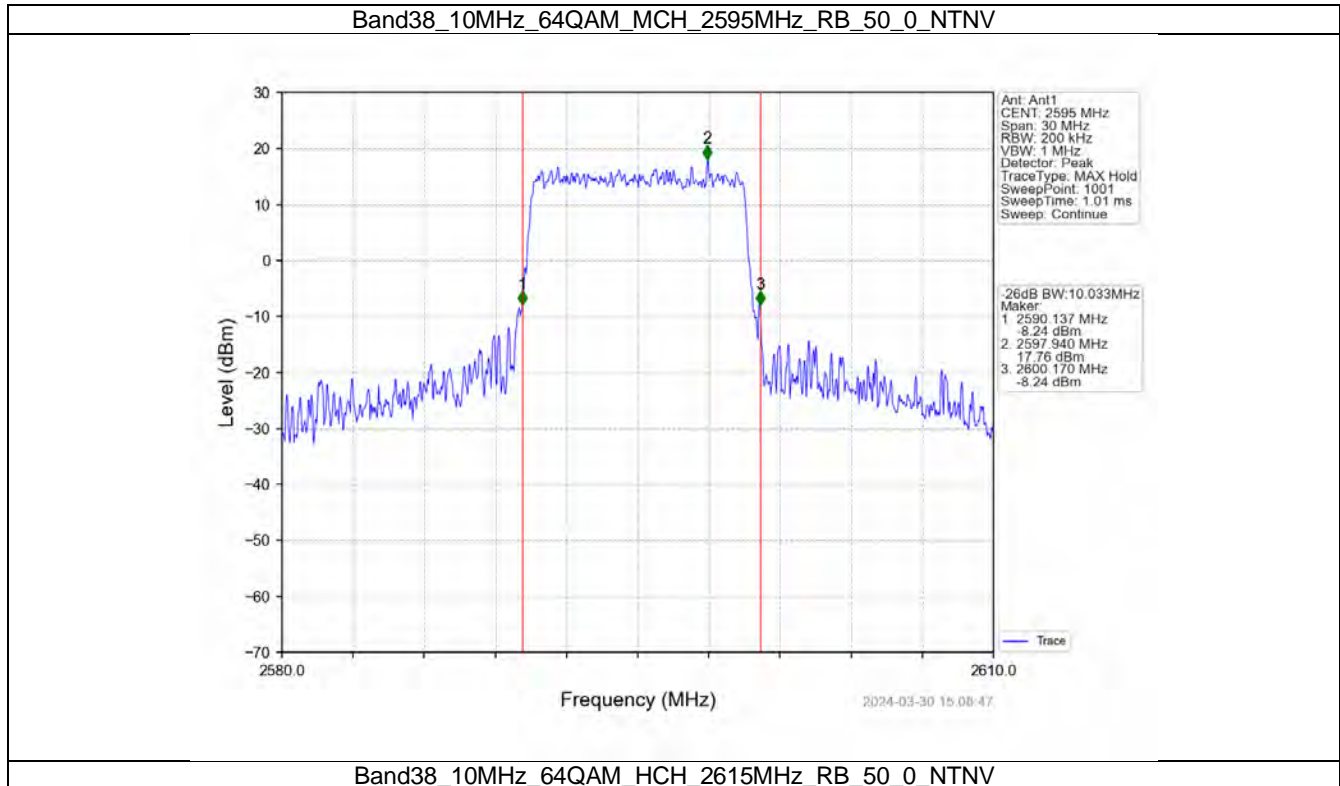


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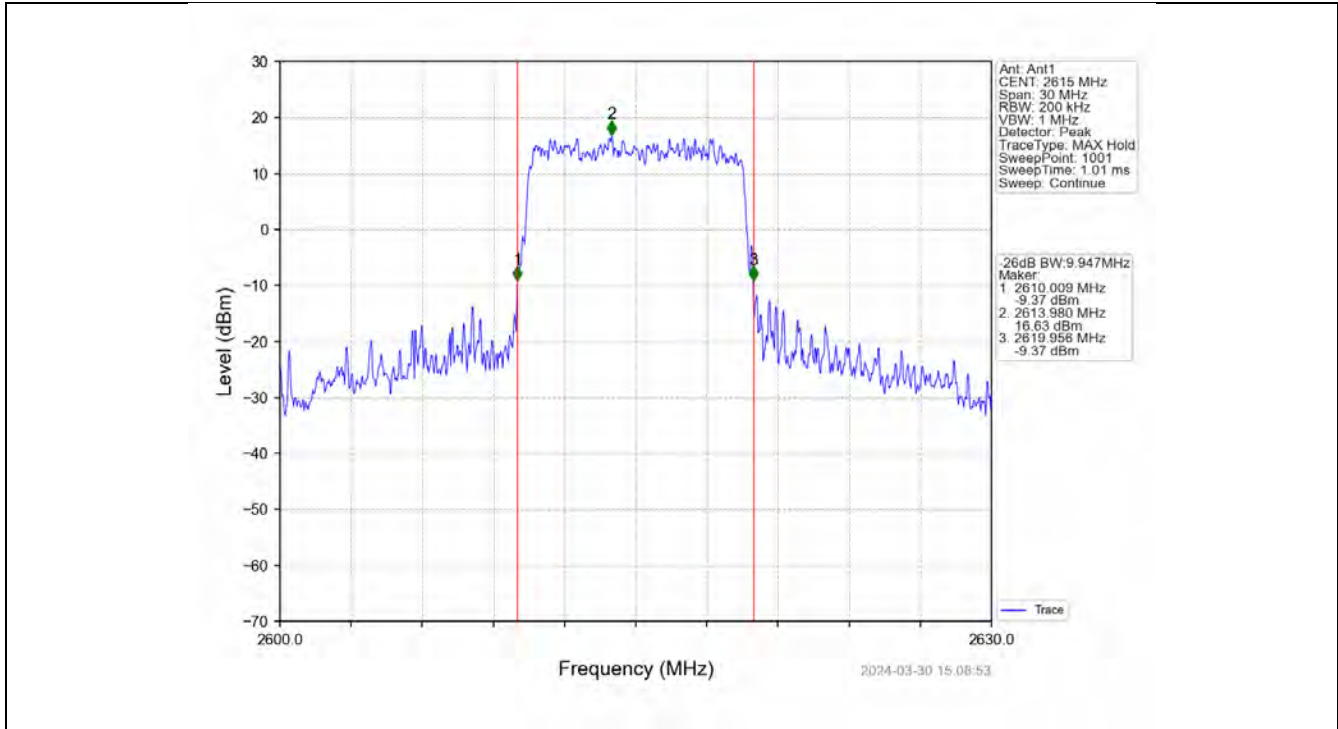


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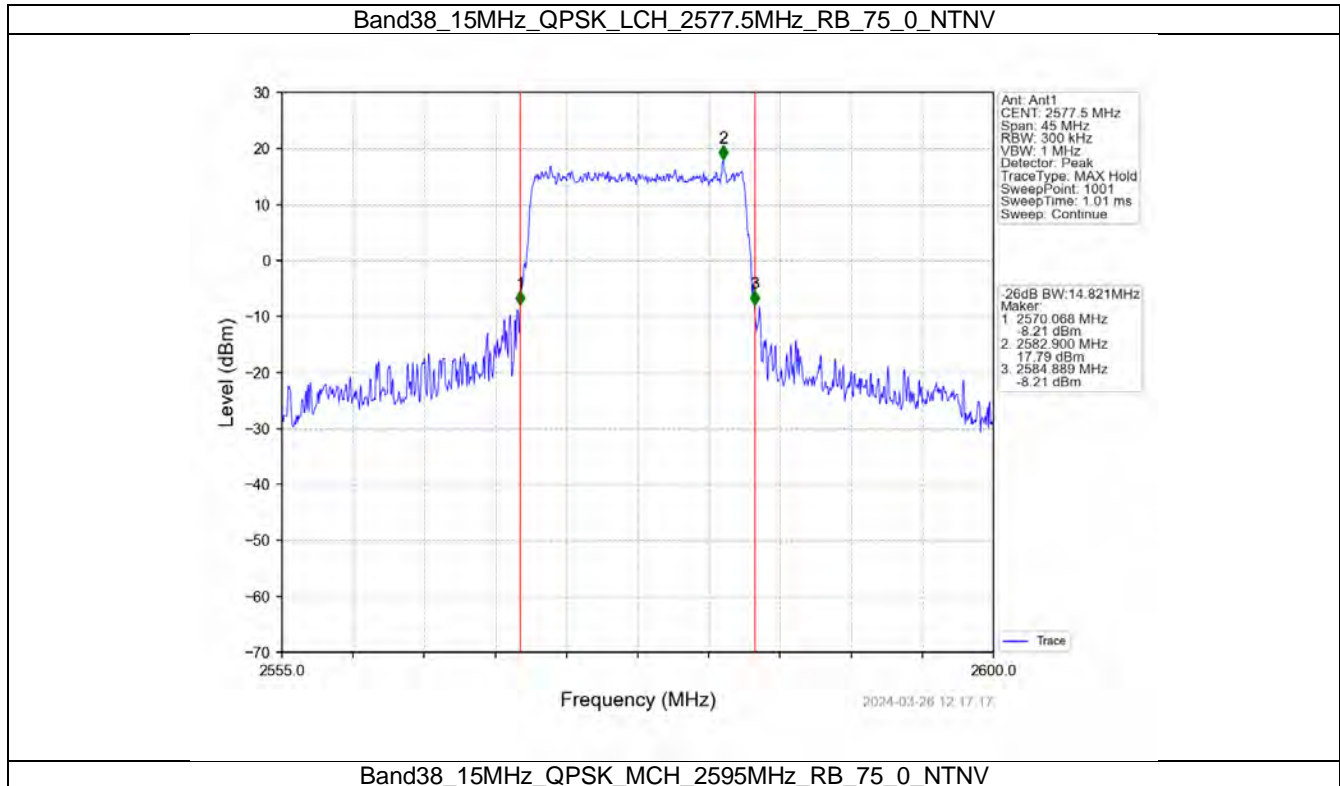


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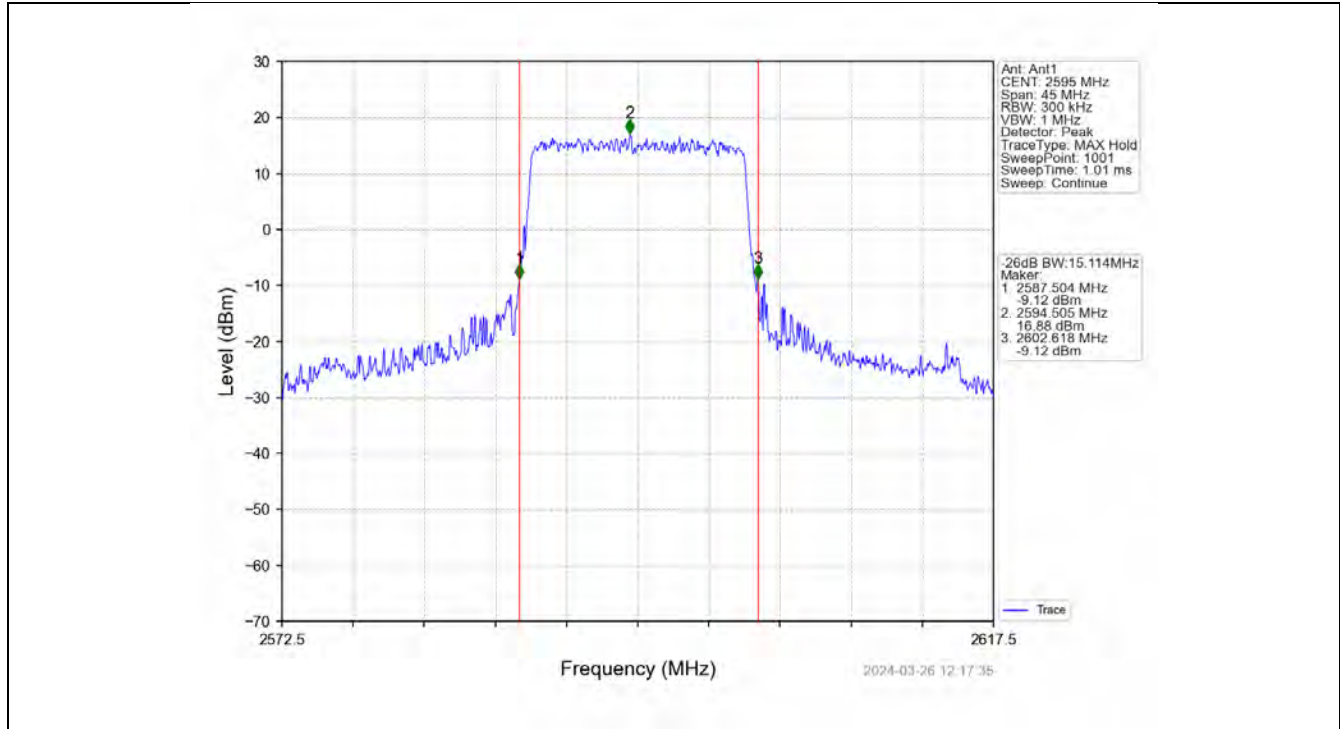


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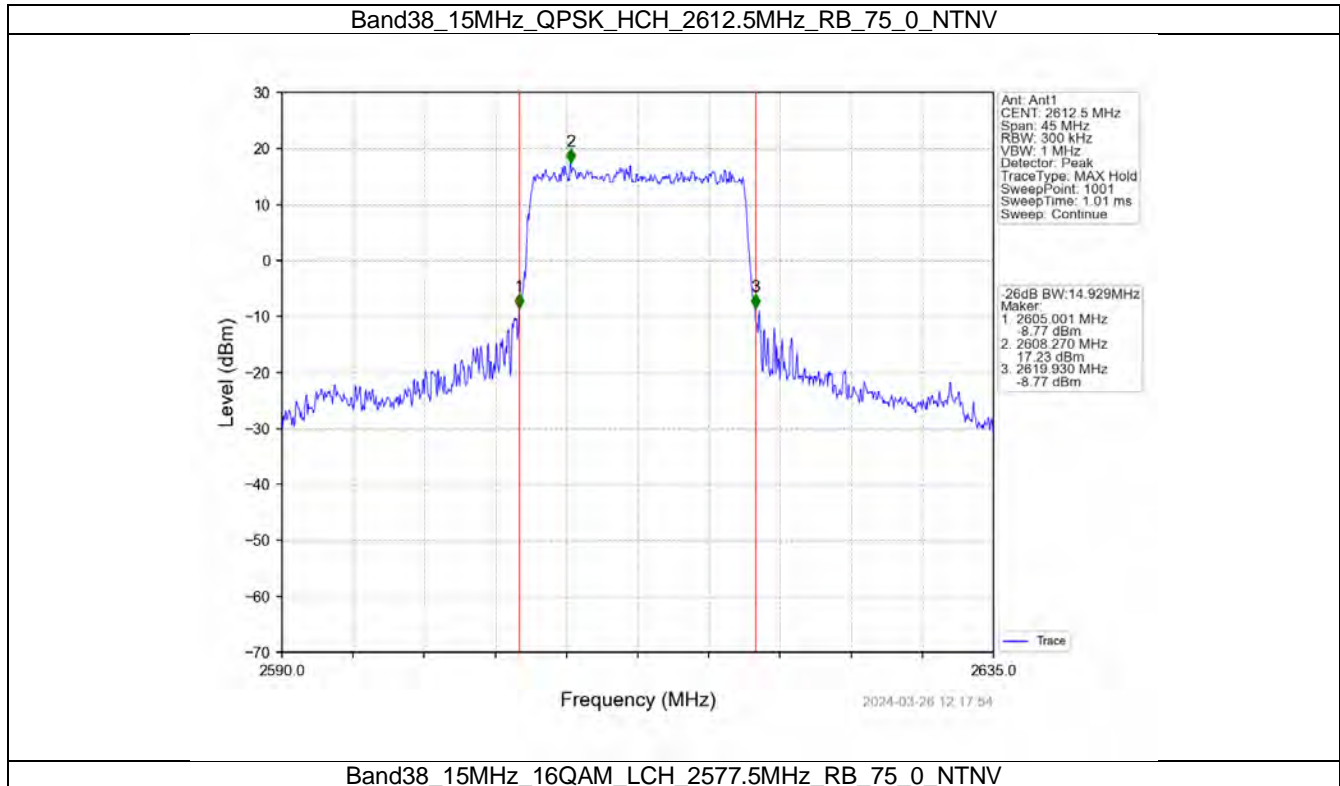


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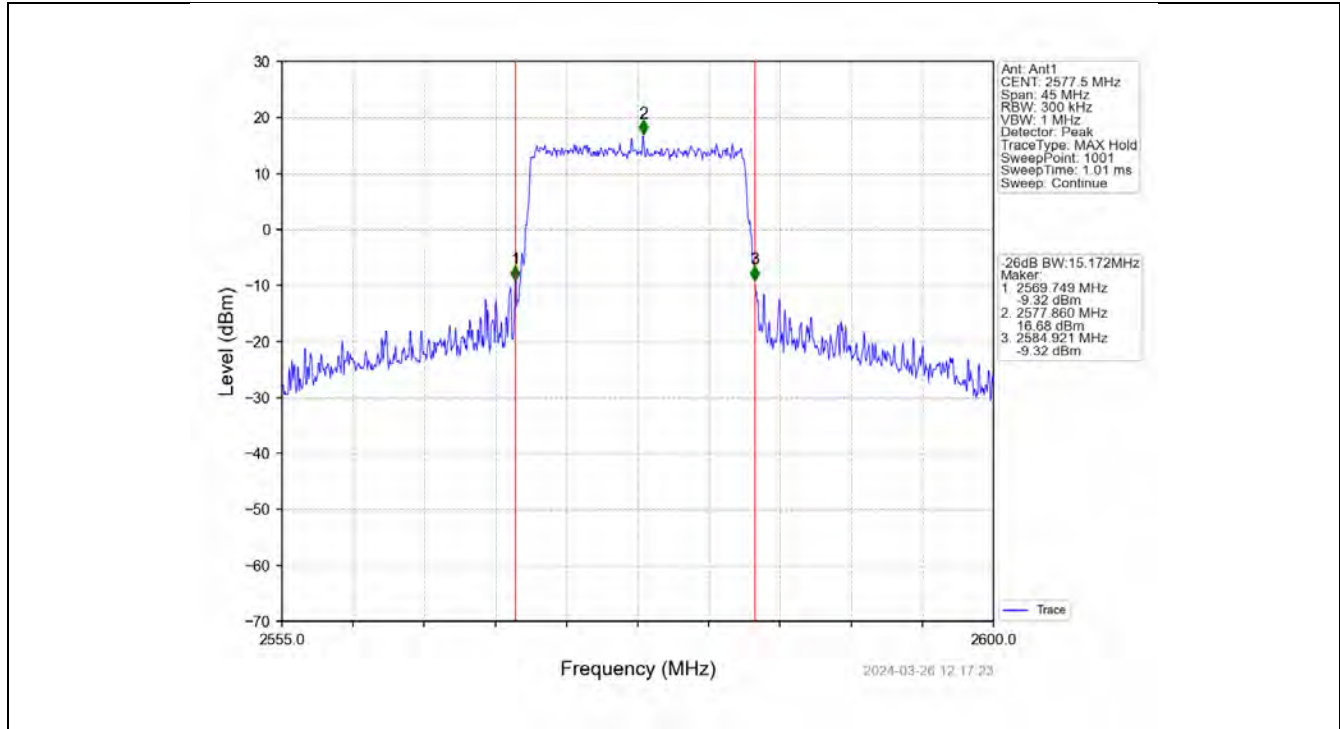


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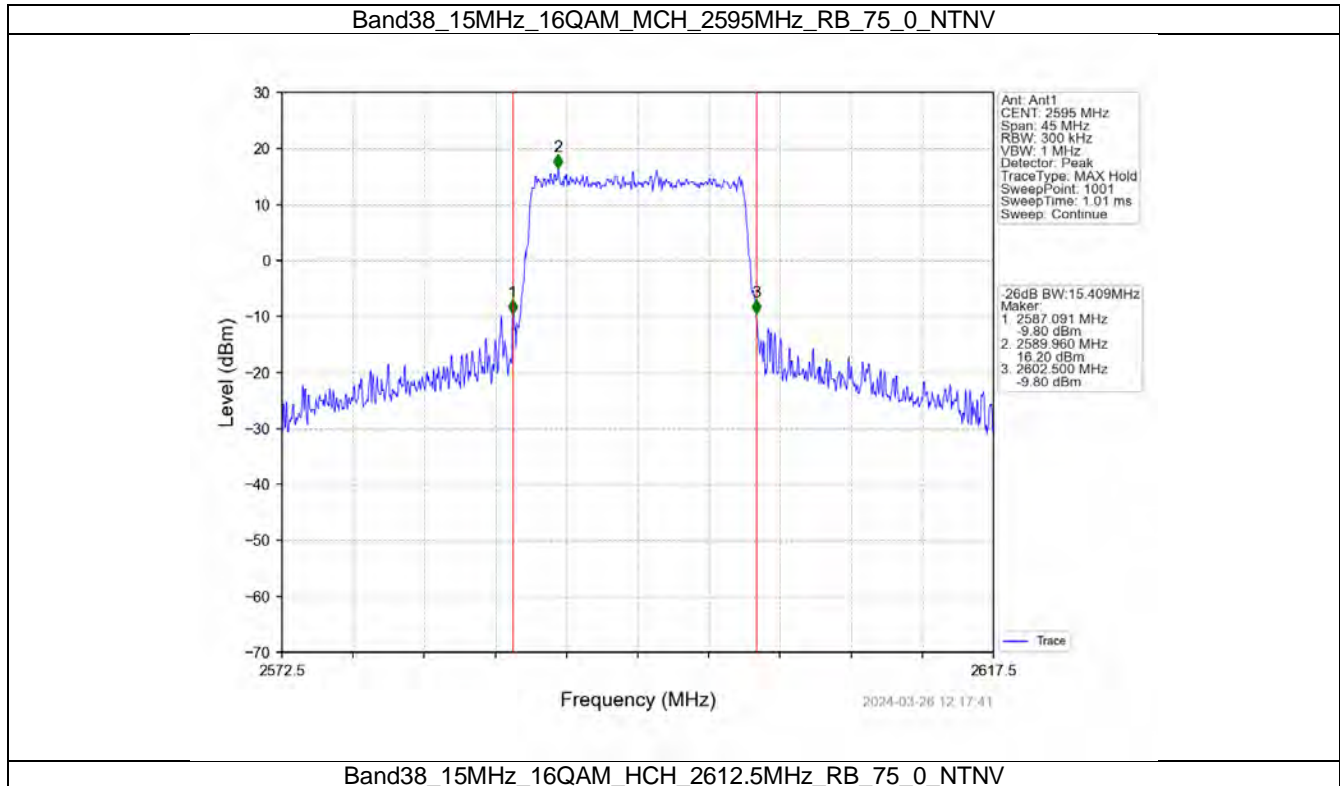


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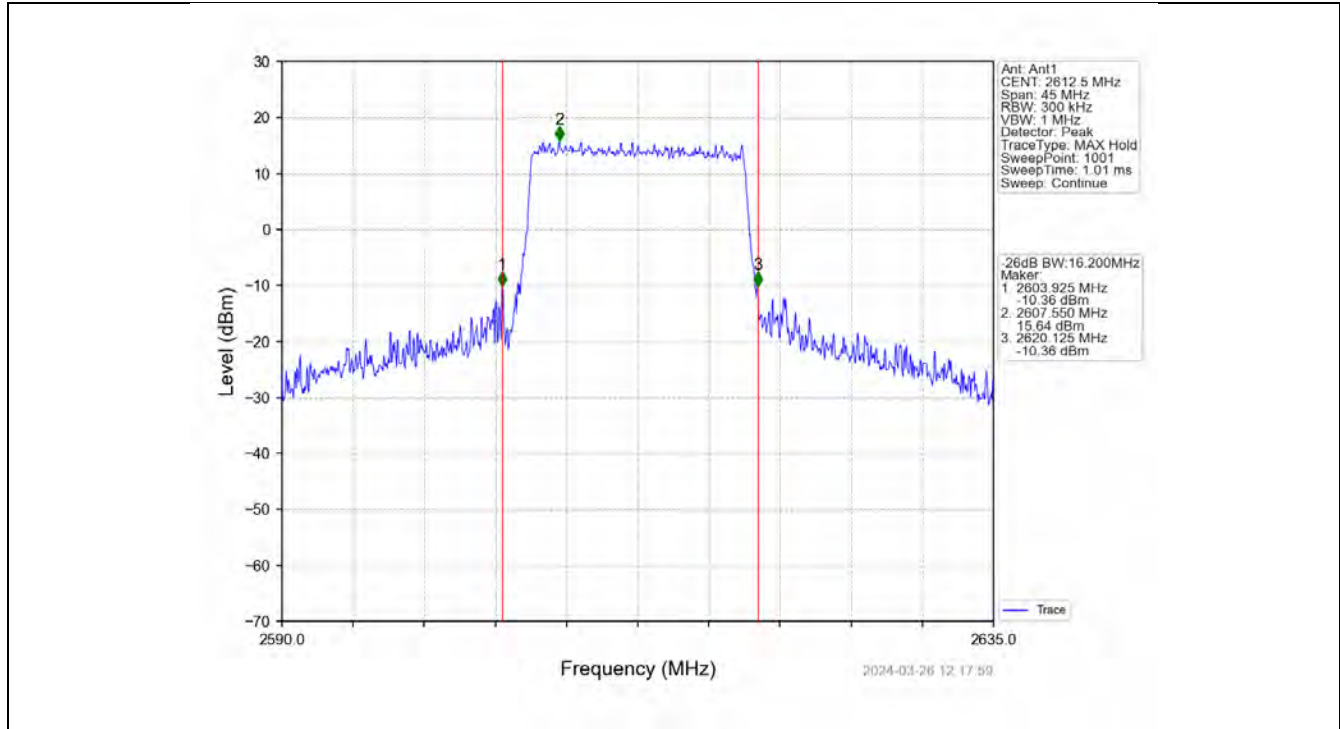


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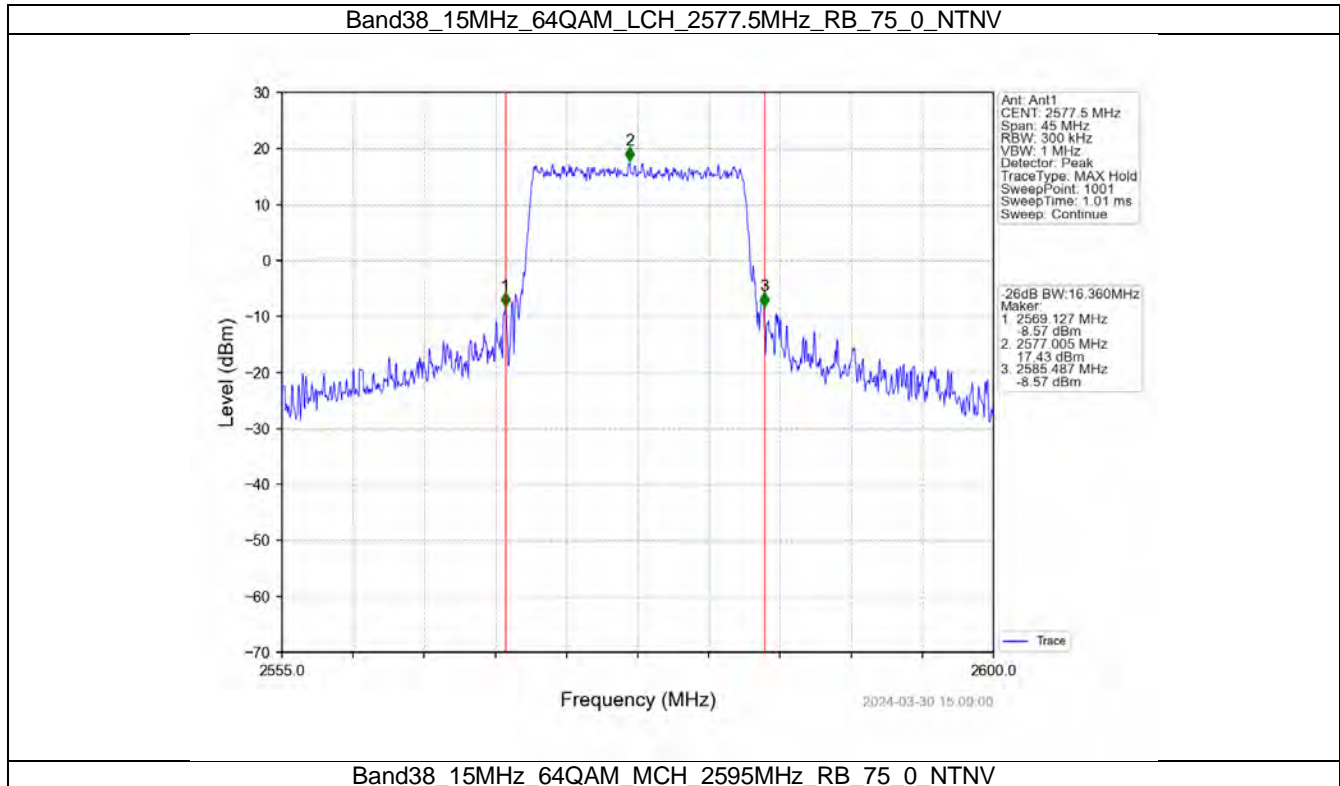


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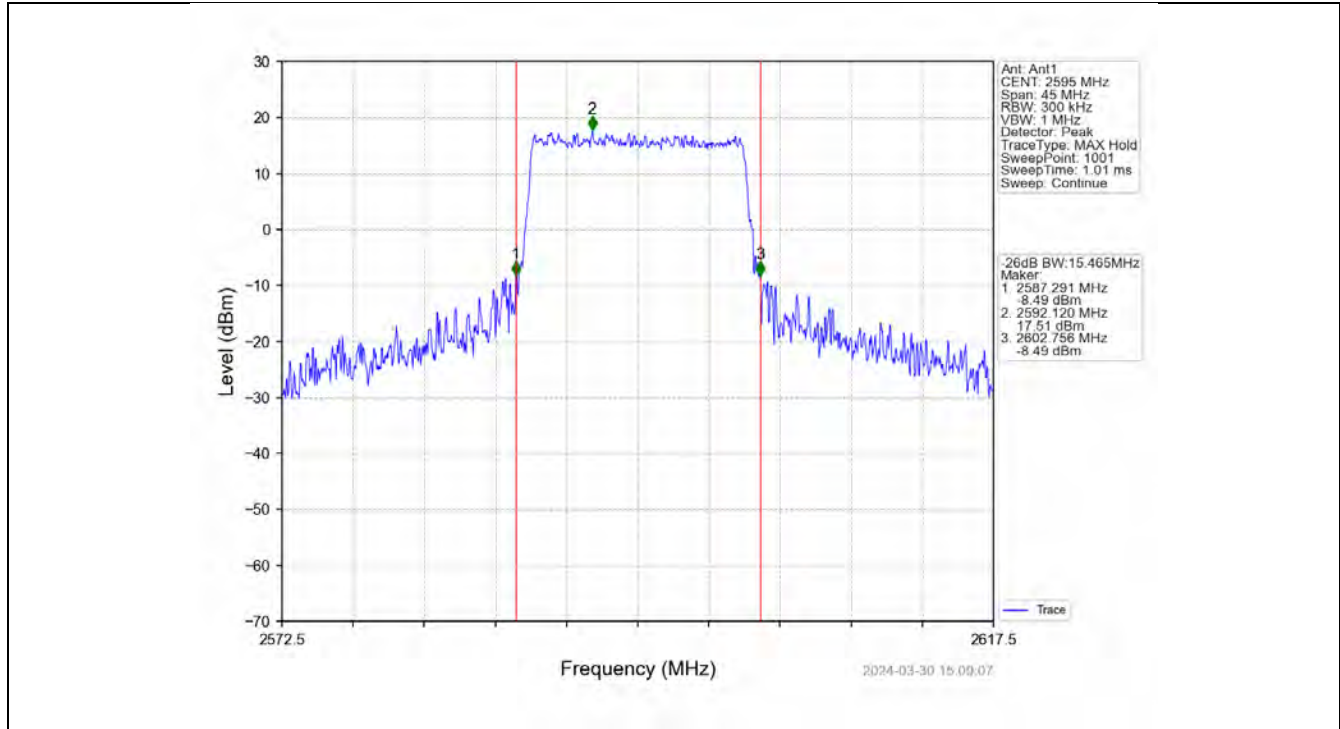


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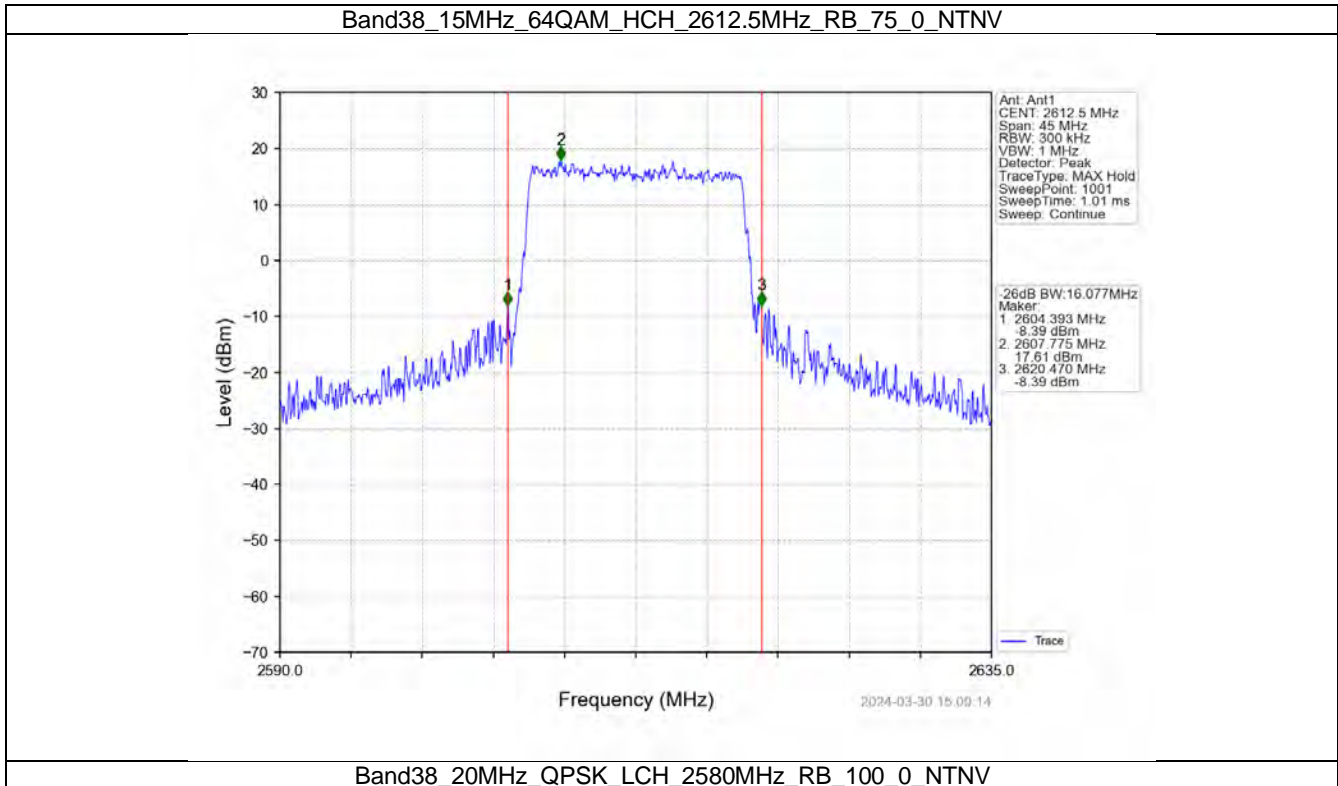


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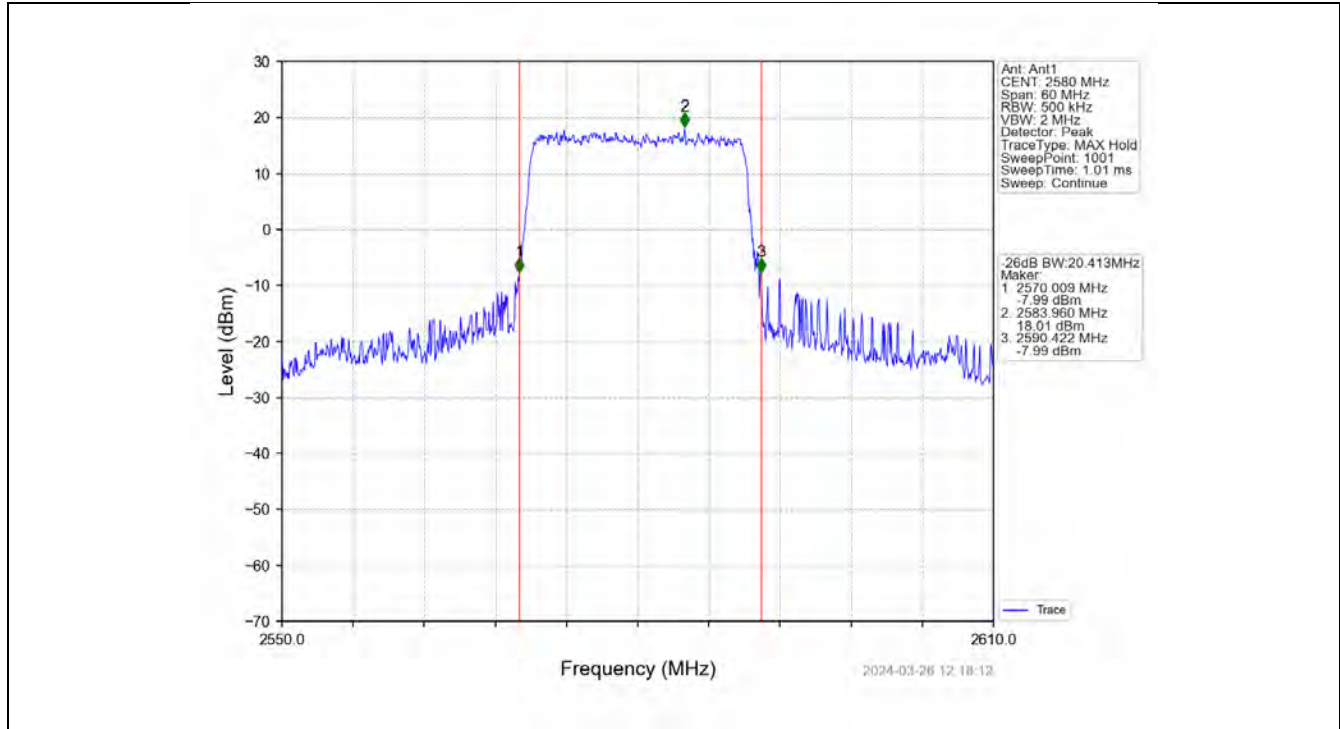


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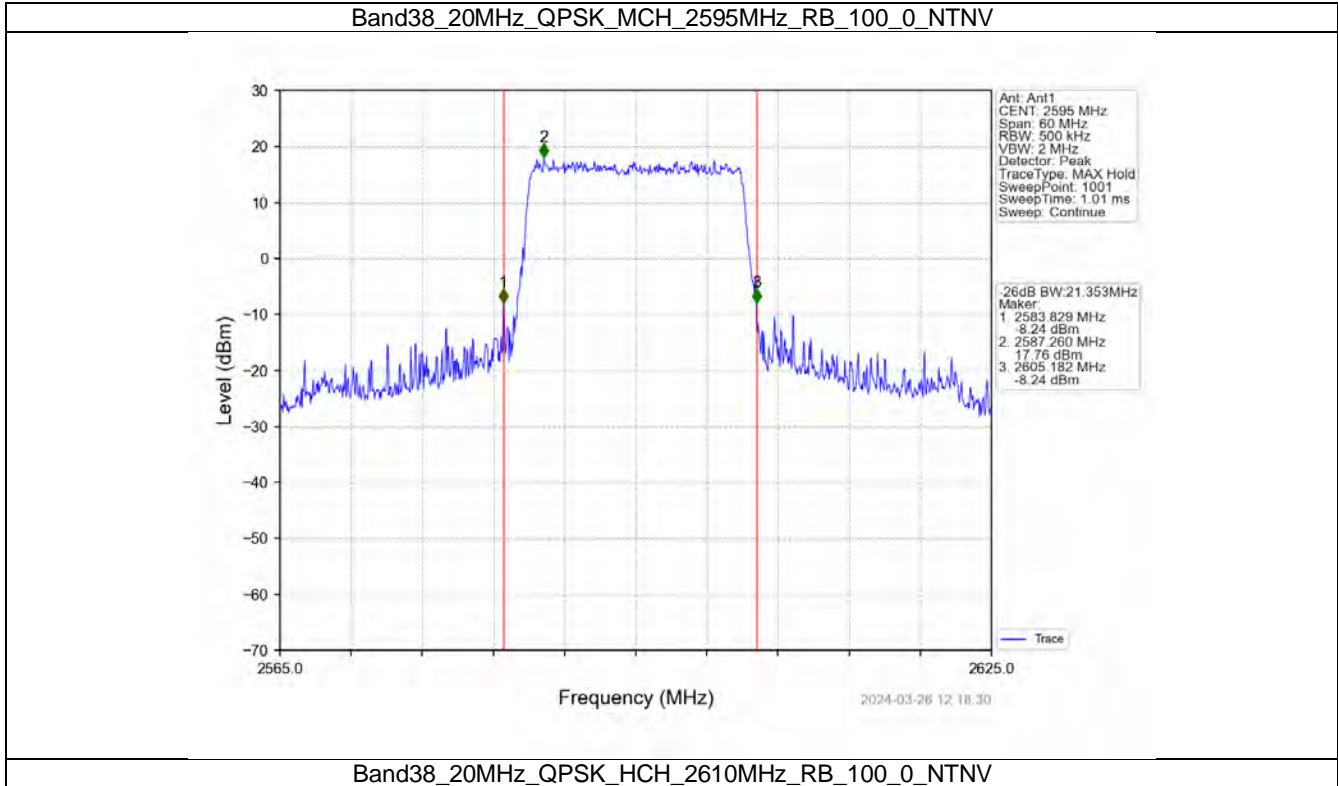


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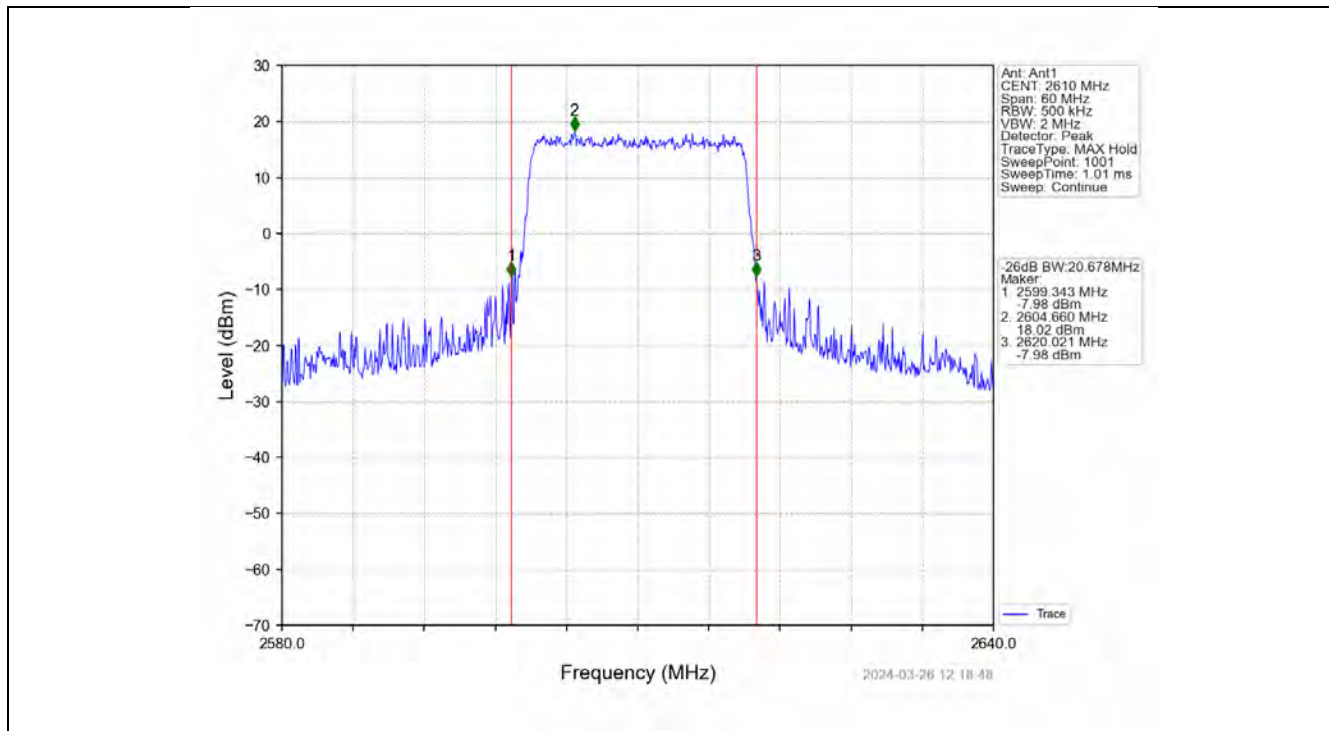
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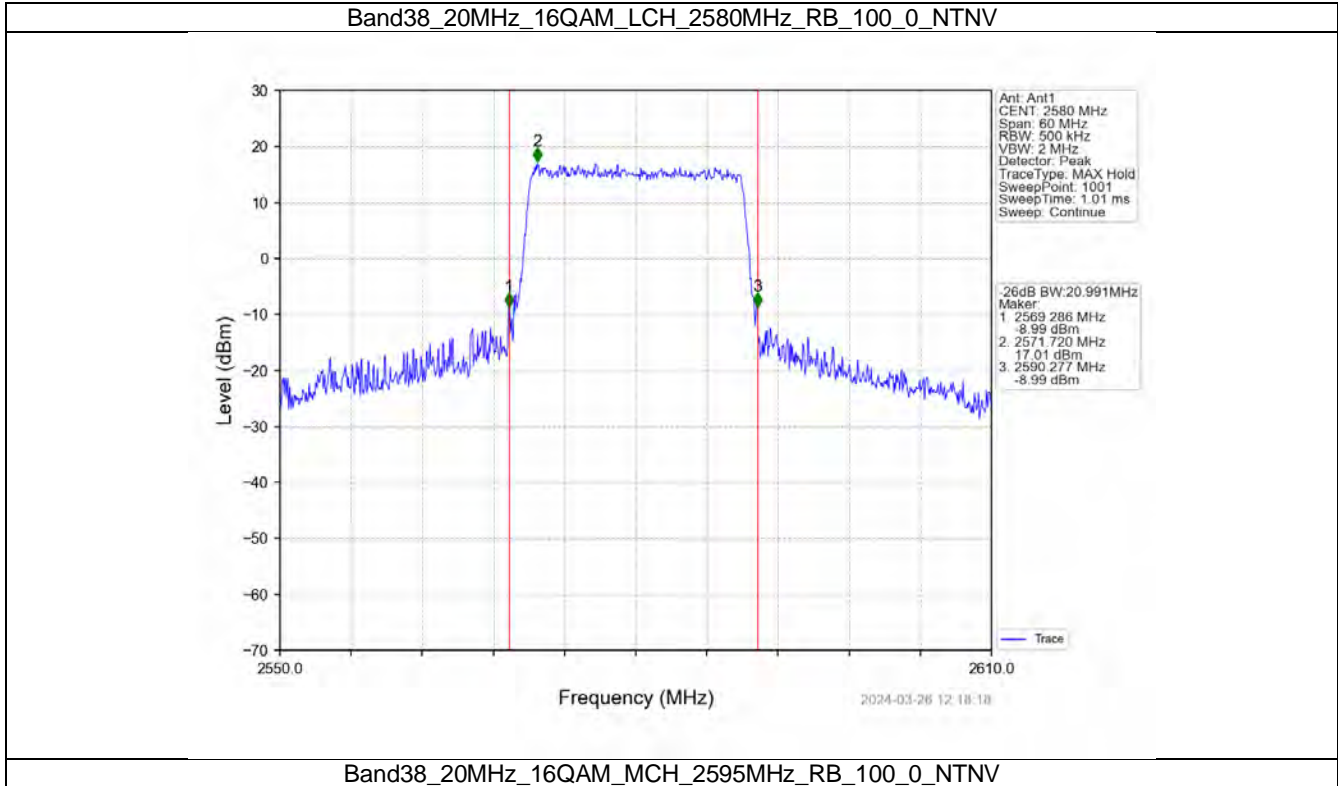


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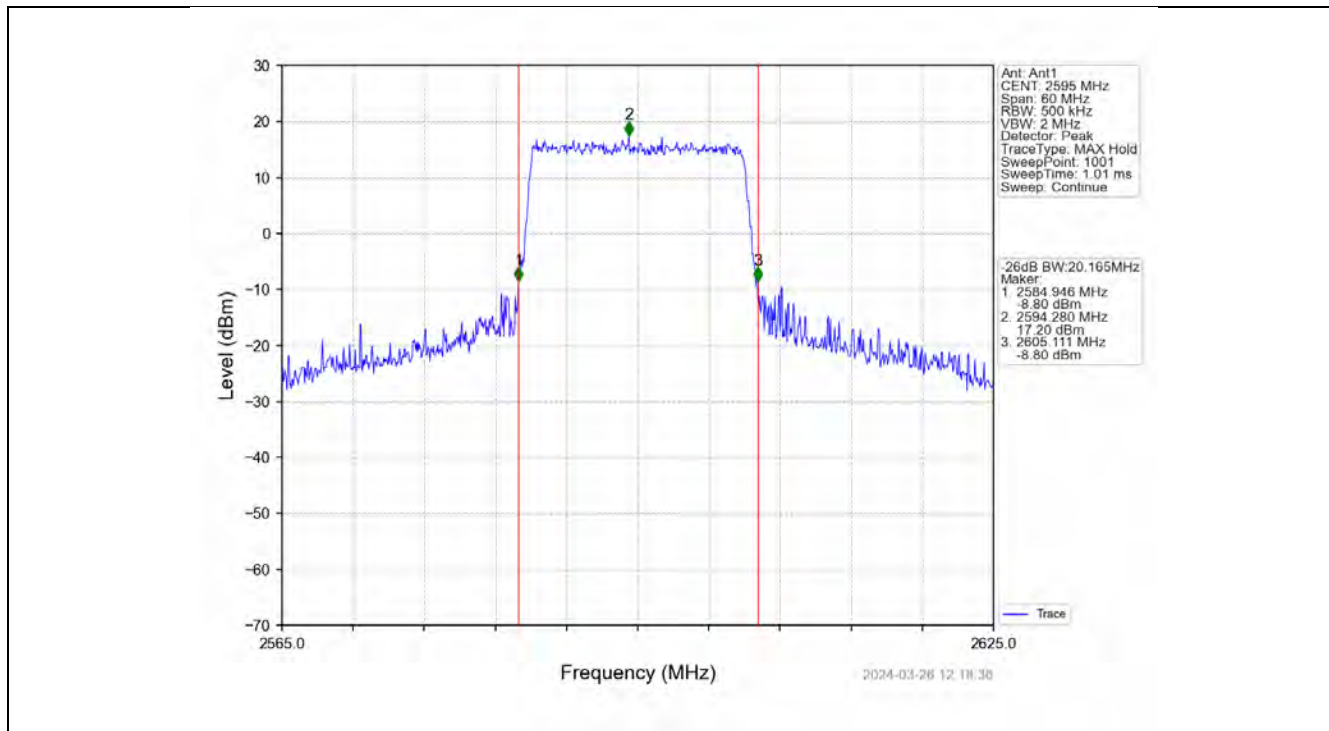
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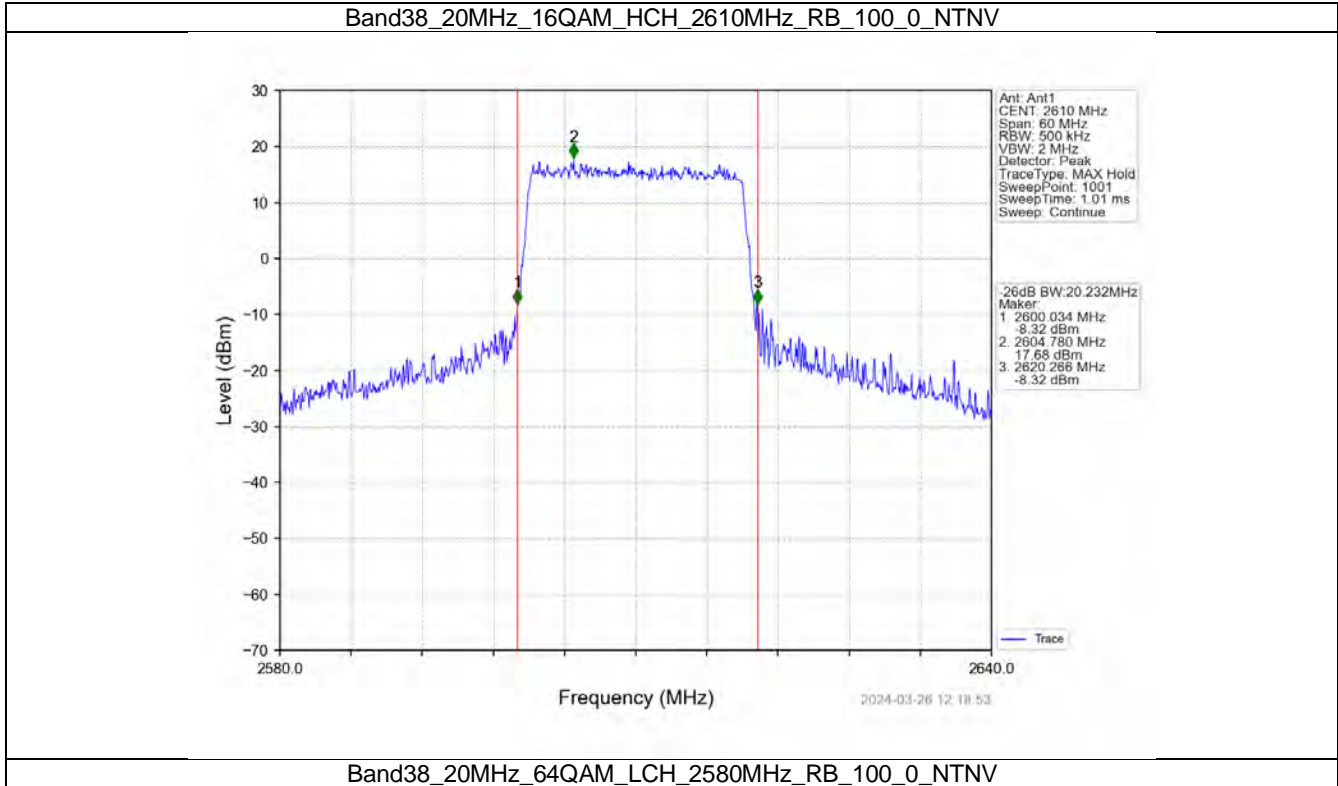


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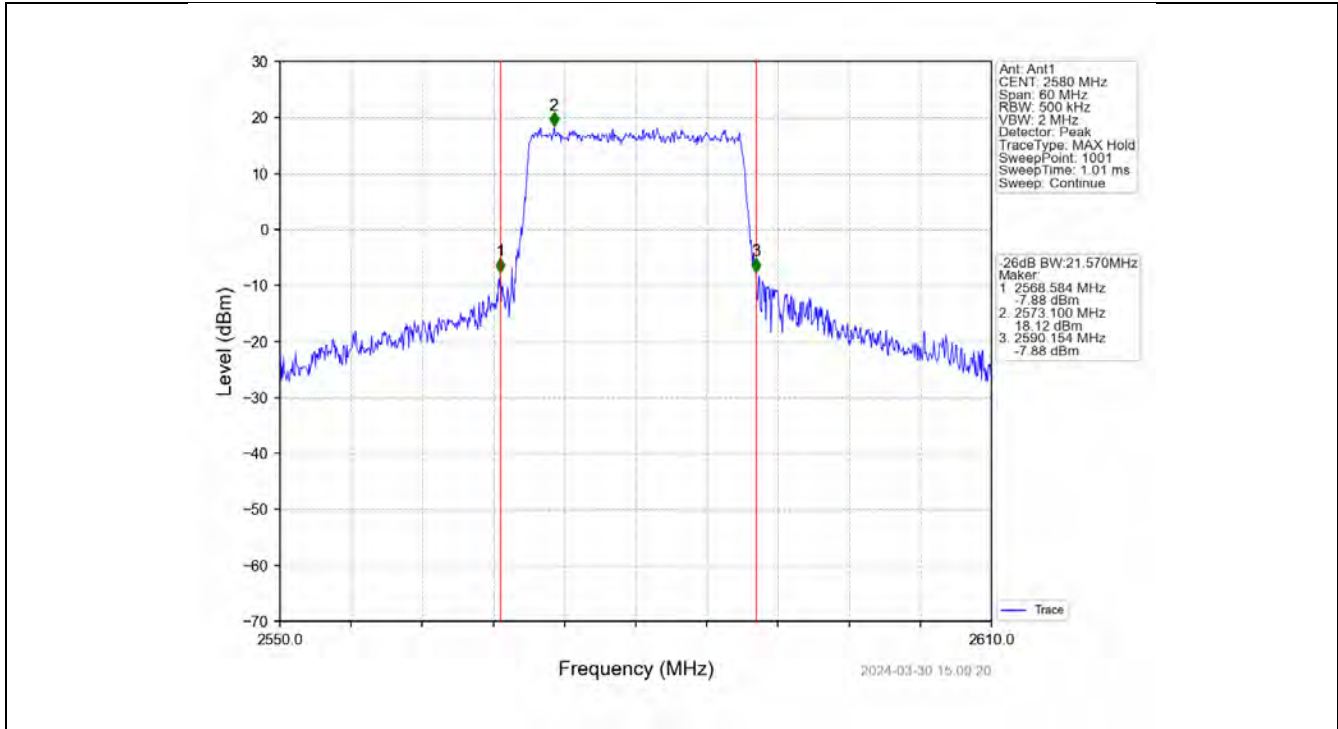


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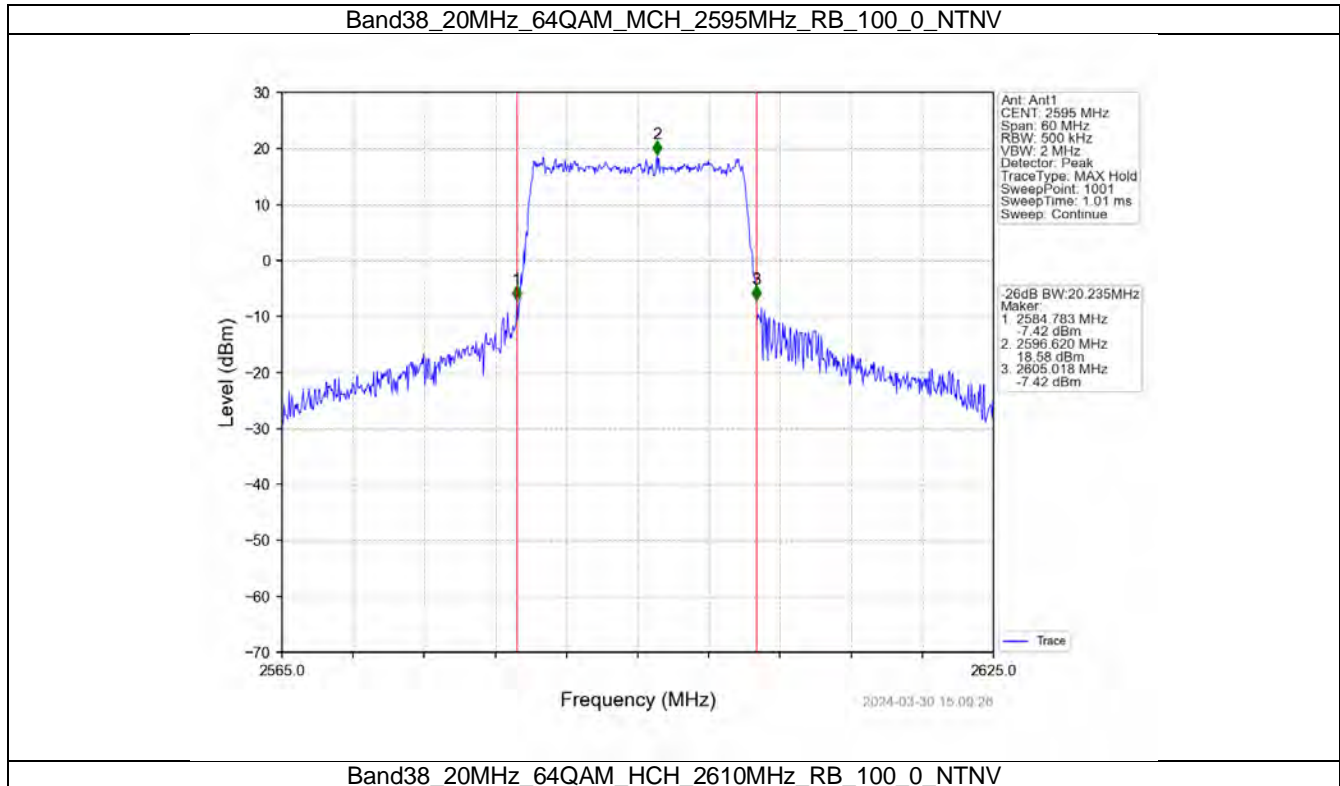


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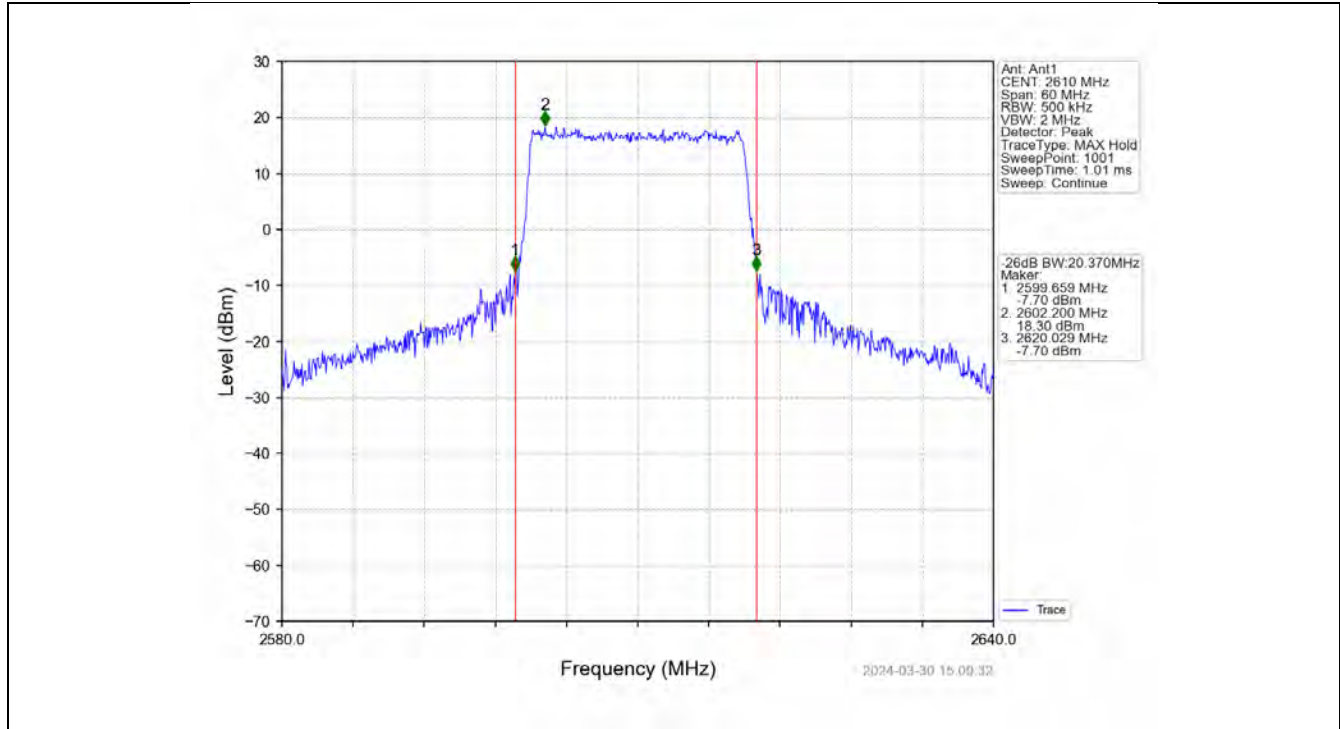


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4. Peak-Average Ratio

4.1 B38_5MHz

4.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	8.45	<=13	Pass
	2595	25	0	8.62	<=13	Pass
	2617.5	25	0	8.65	<=13	Pass
16QAM	2572.5	25	0	9.40	<=13	Pass
	2595	25	0	9.16	<=13	Pass
	2617.5	25	0	9.29	<=13	Pass
64QAM	2572.5	25	0	9.64	<=13	Pass
	2595	25	0	9.60	<=13	Pass
	2617.5	25	0	9.63	<=13	Pass



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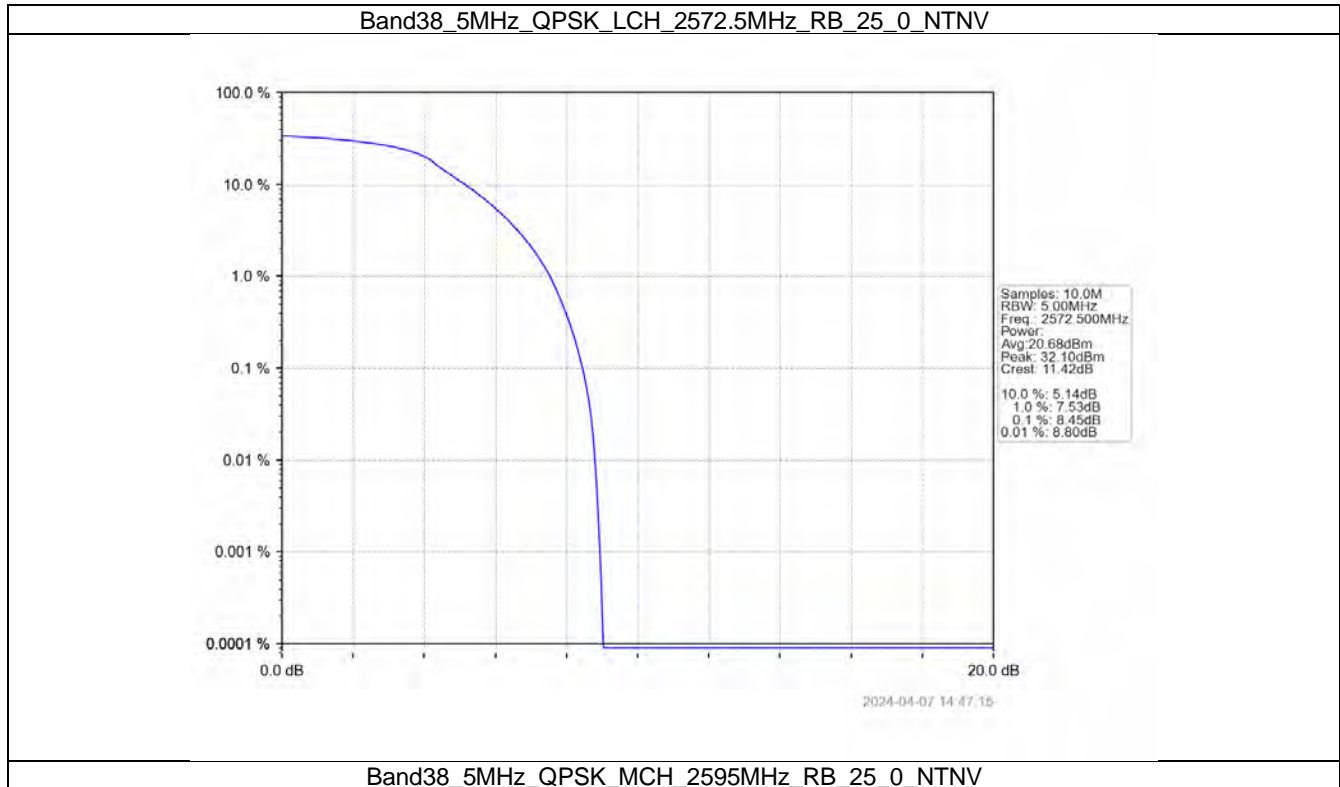
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4.1.2 Test Graph



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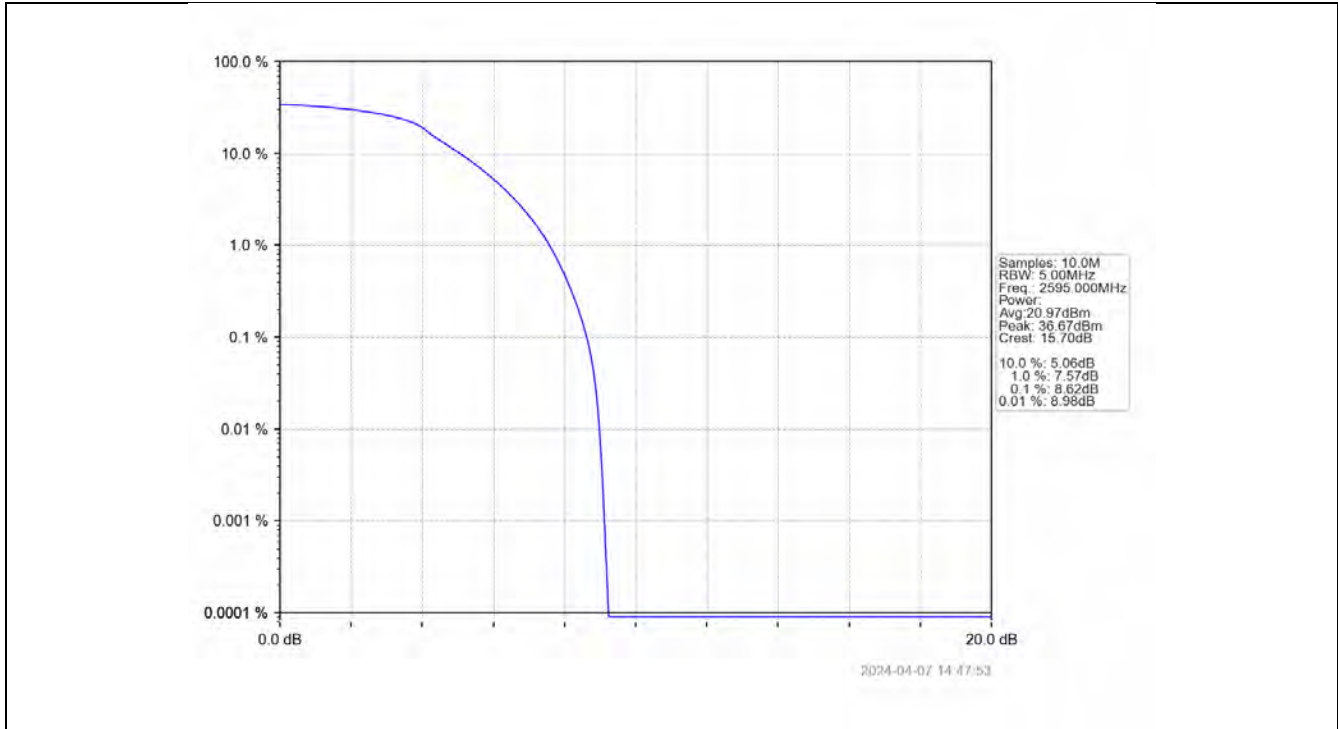


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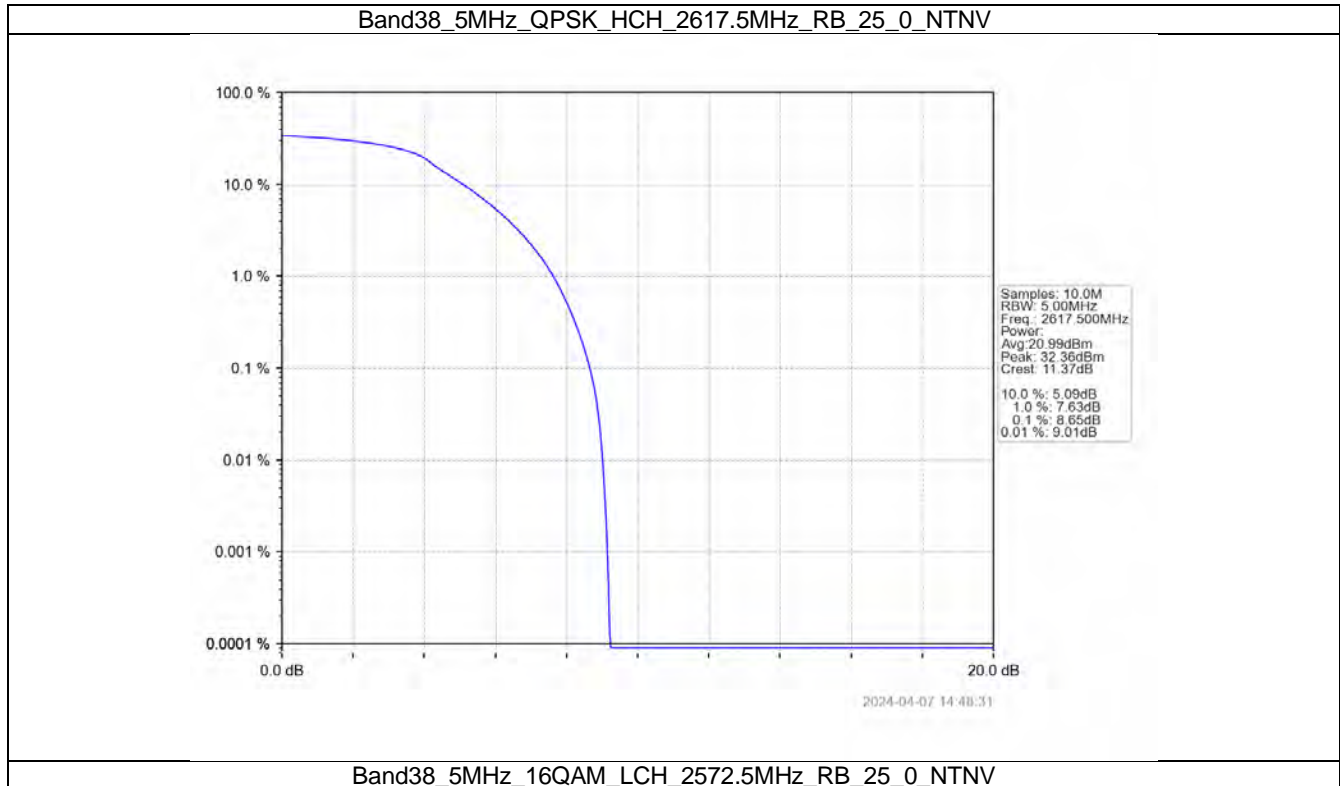


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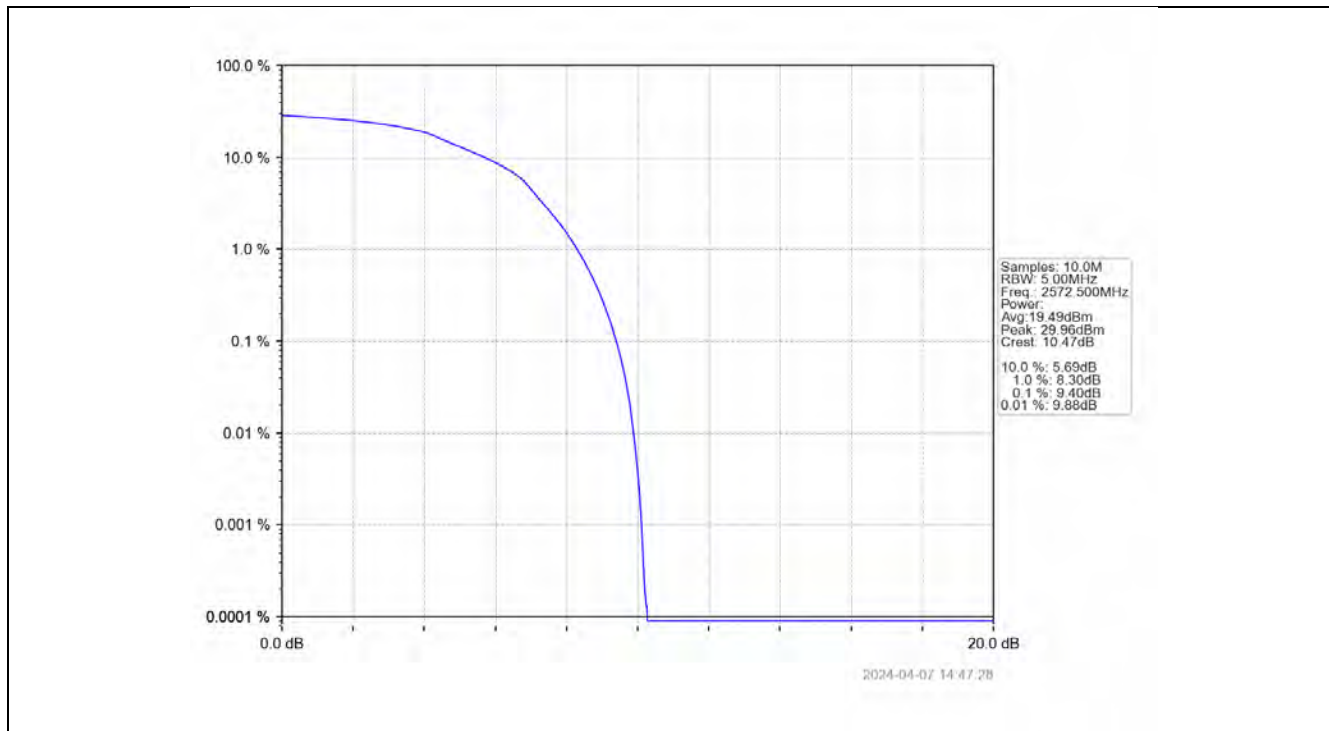
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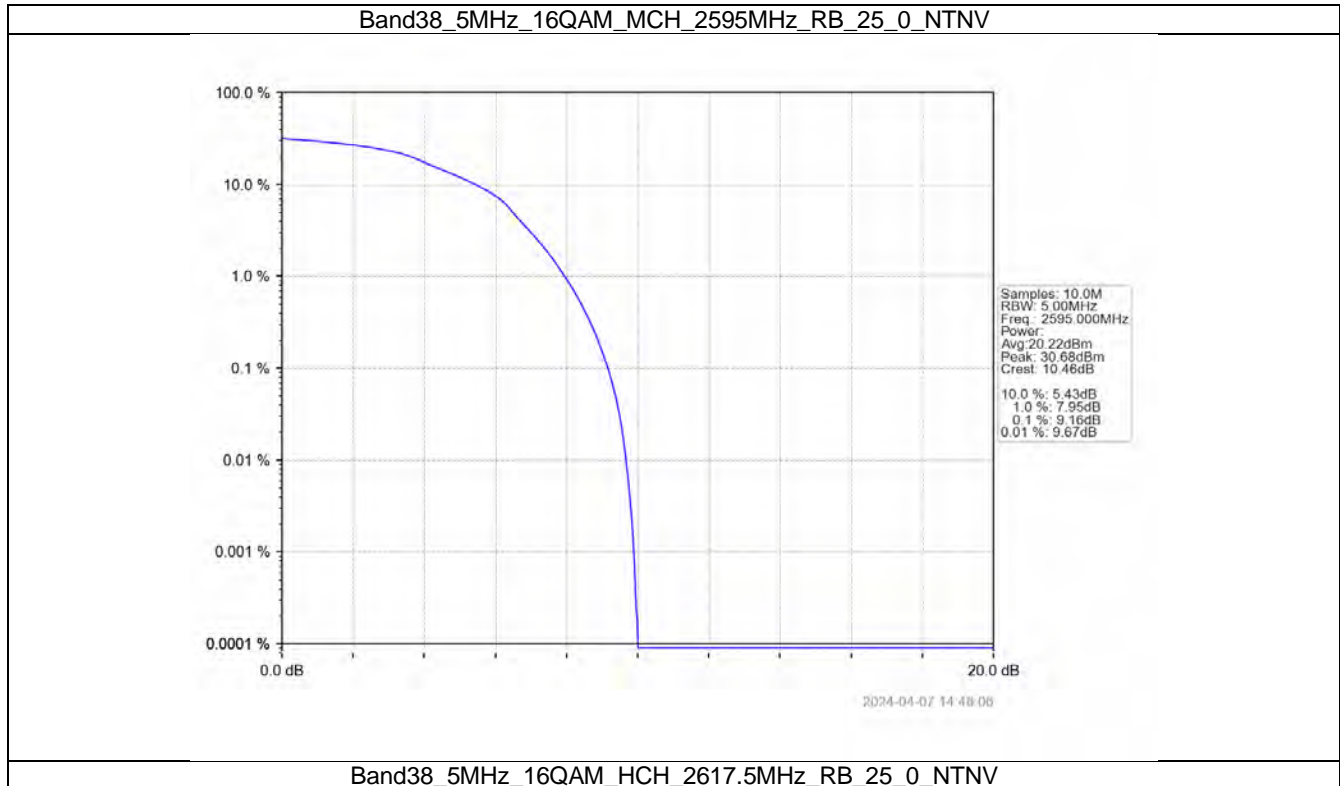
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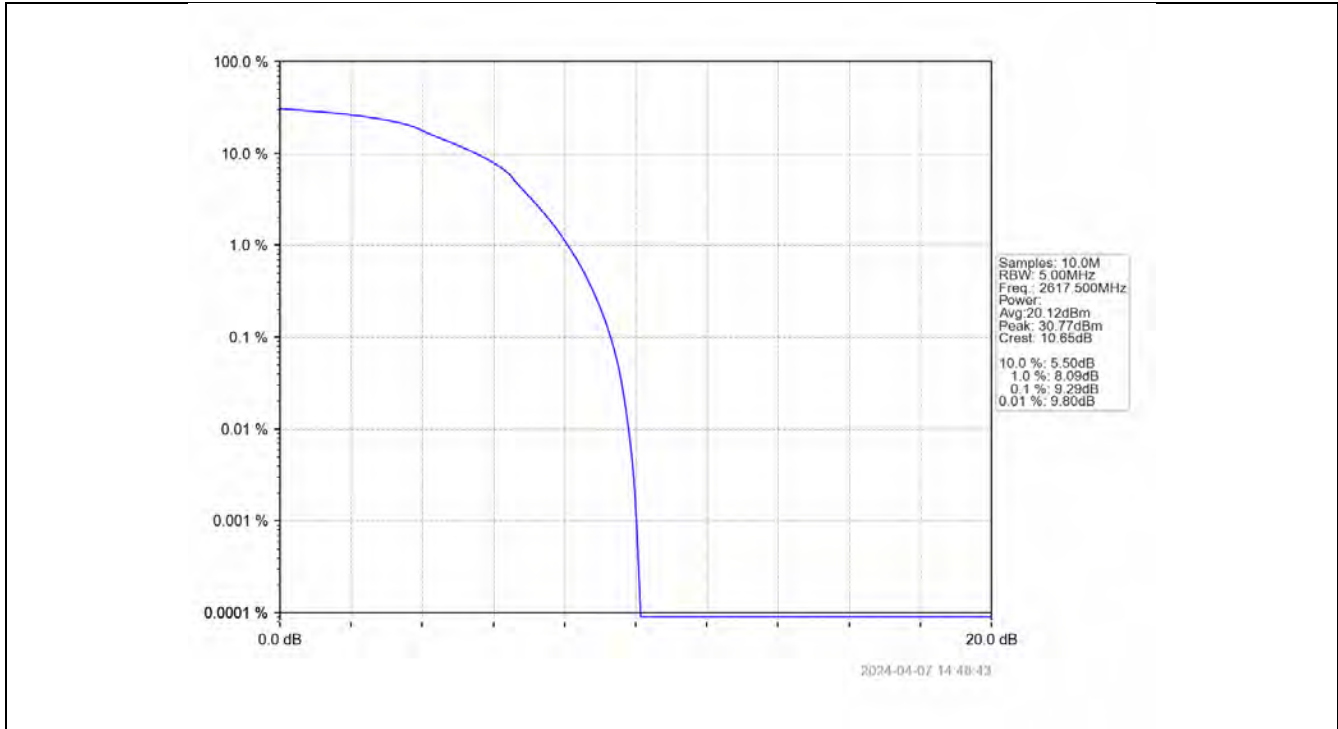


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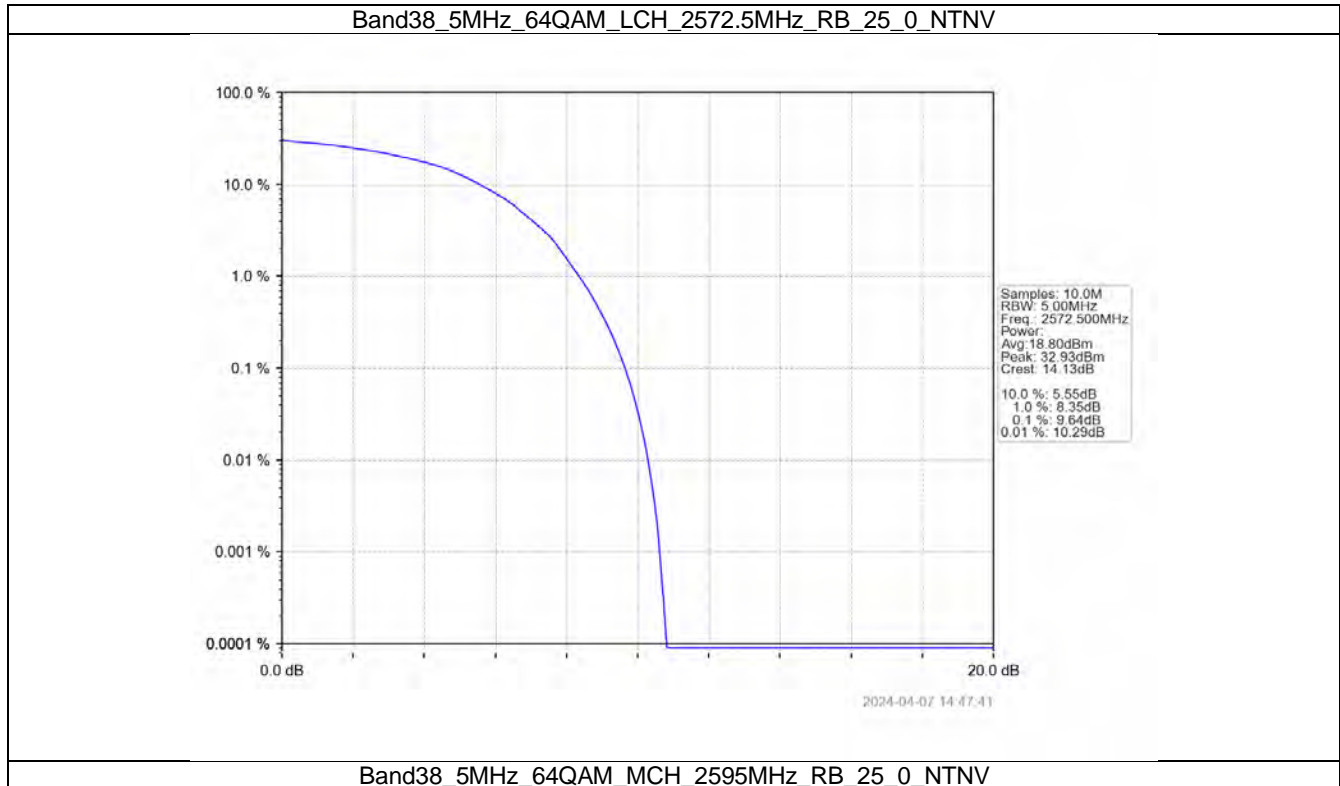


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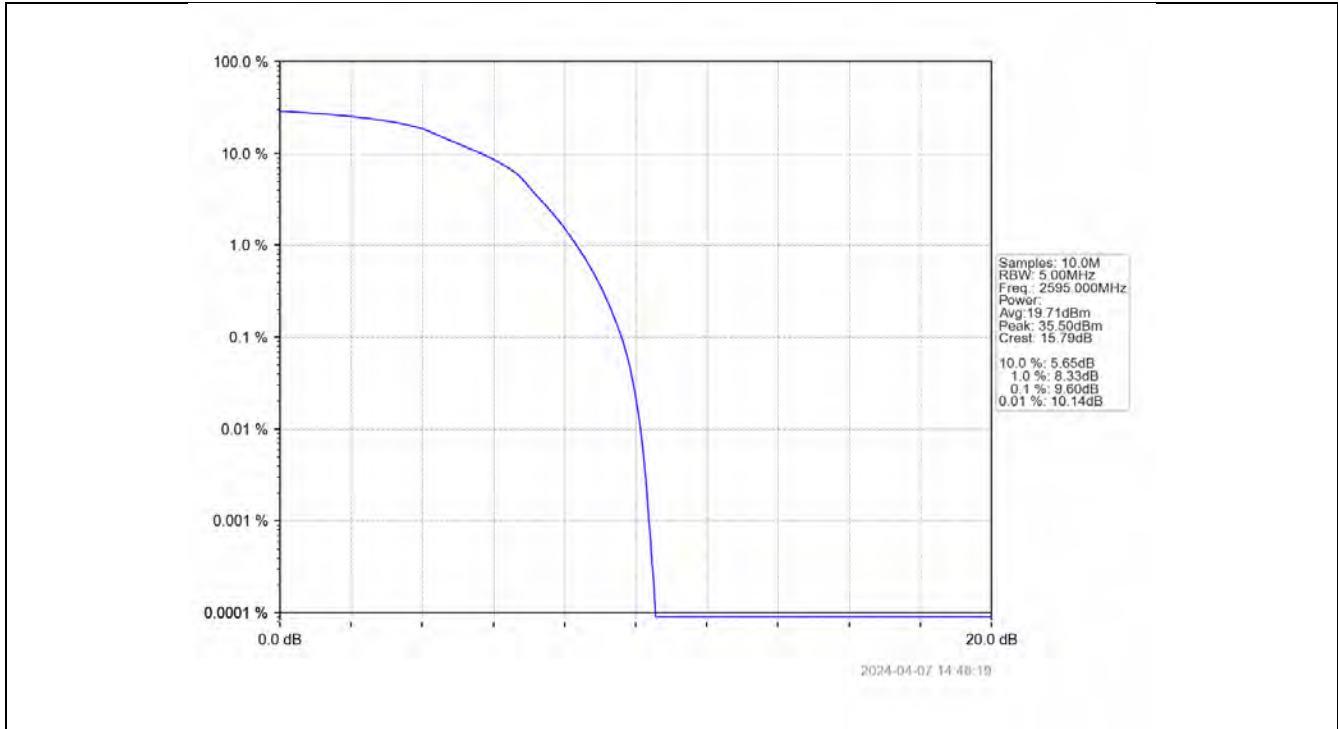


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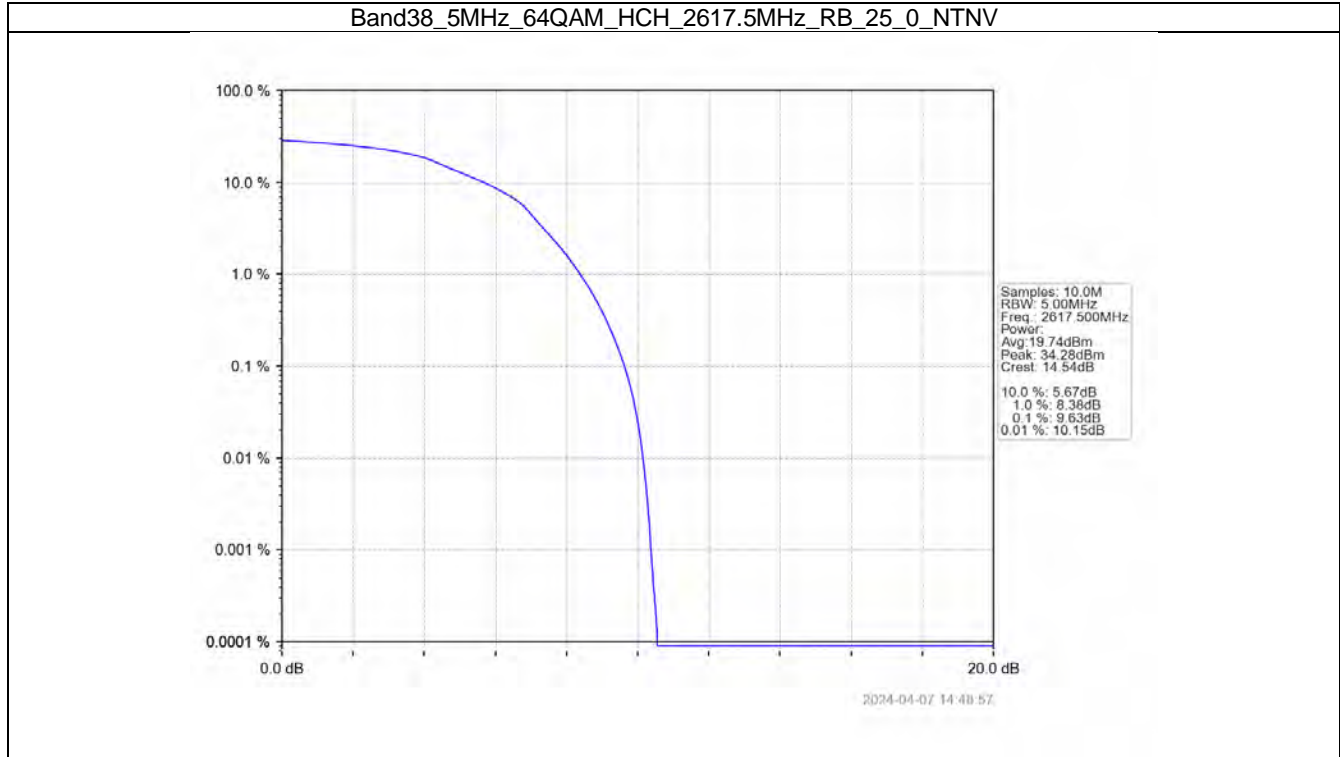
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4.2 B38_10MHz

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	8.46	<=13	Pass
	2595	50	0	8.65	<=13	Pass
	2615	50	0	8.65	<=13	Pass
16QAM	2575	50	0	9.21	<=13	Pass
	2595	50	0	9.56	<=13	Pass
	2615	50	0	9.09	<=13	Pass
64QAM	2575	50	0	8.93	<=13	Pass
	2595	50	0	9.69	<=13	Pass
	2615	50	0	9.24	<=13	Pass



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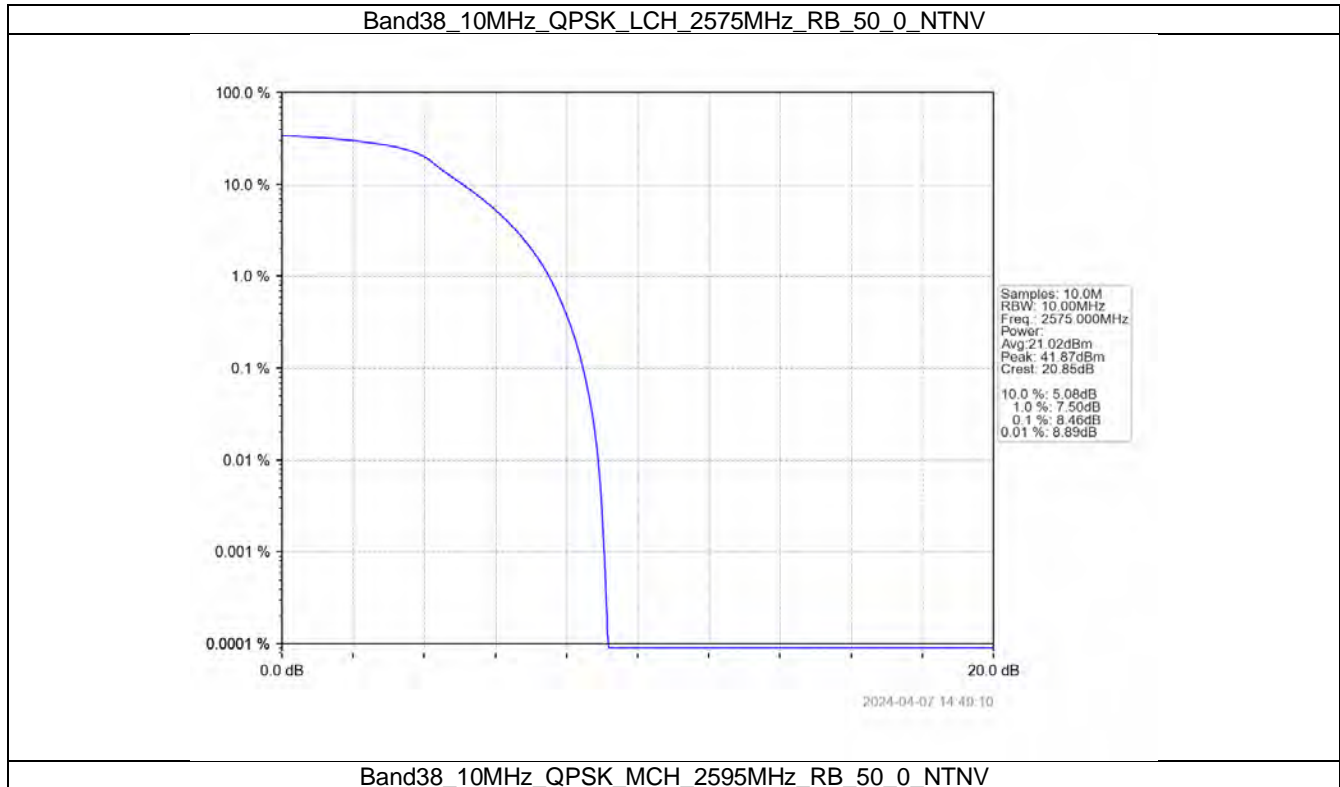
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4.2.2 Test Graph



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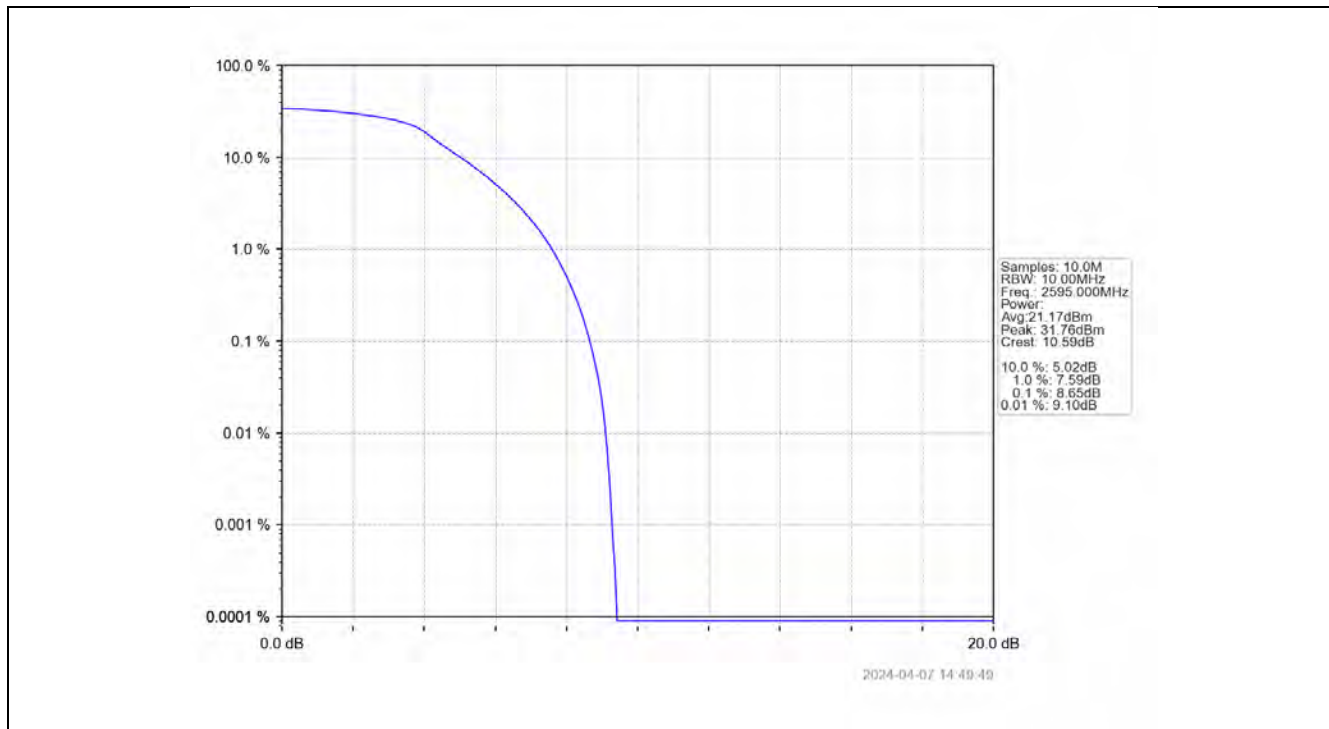
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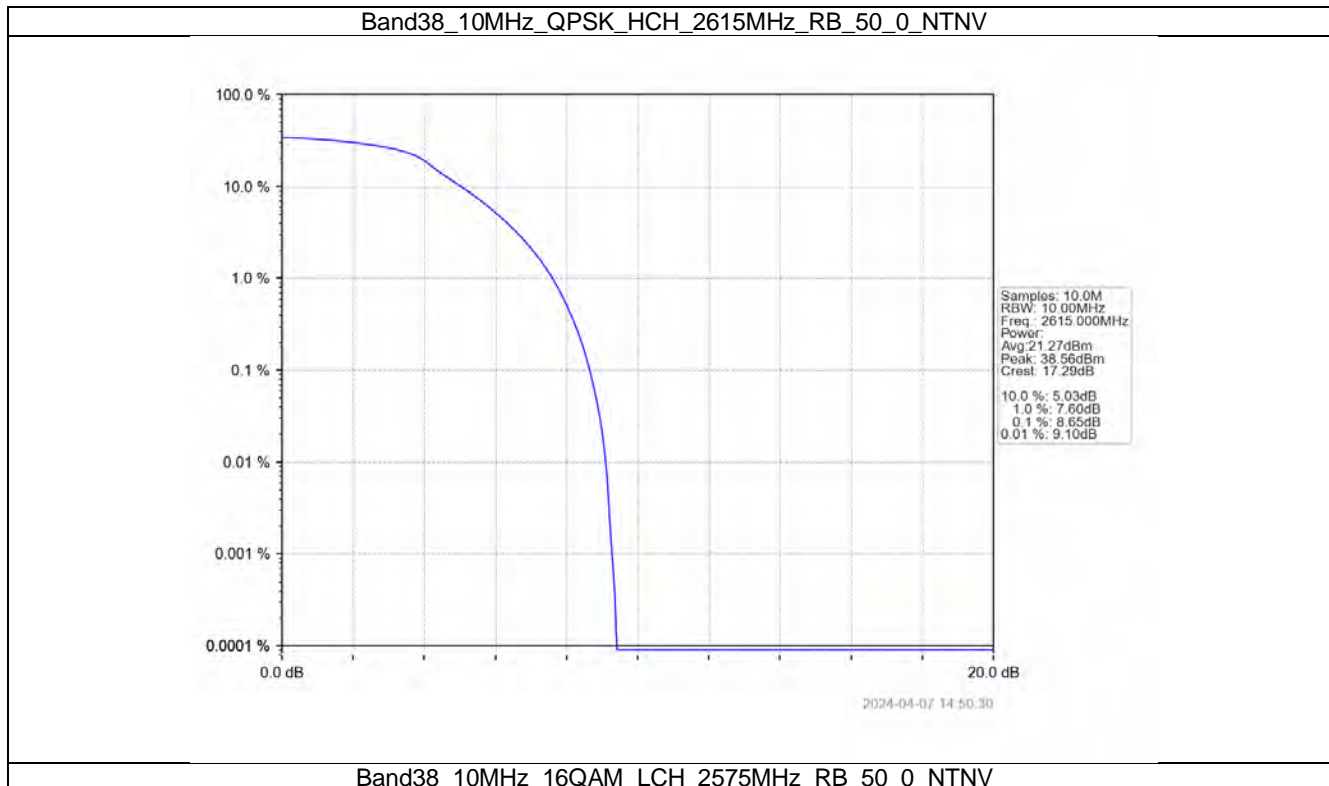
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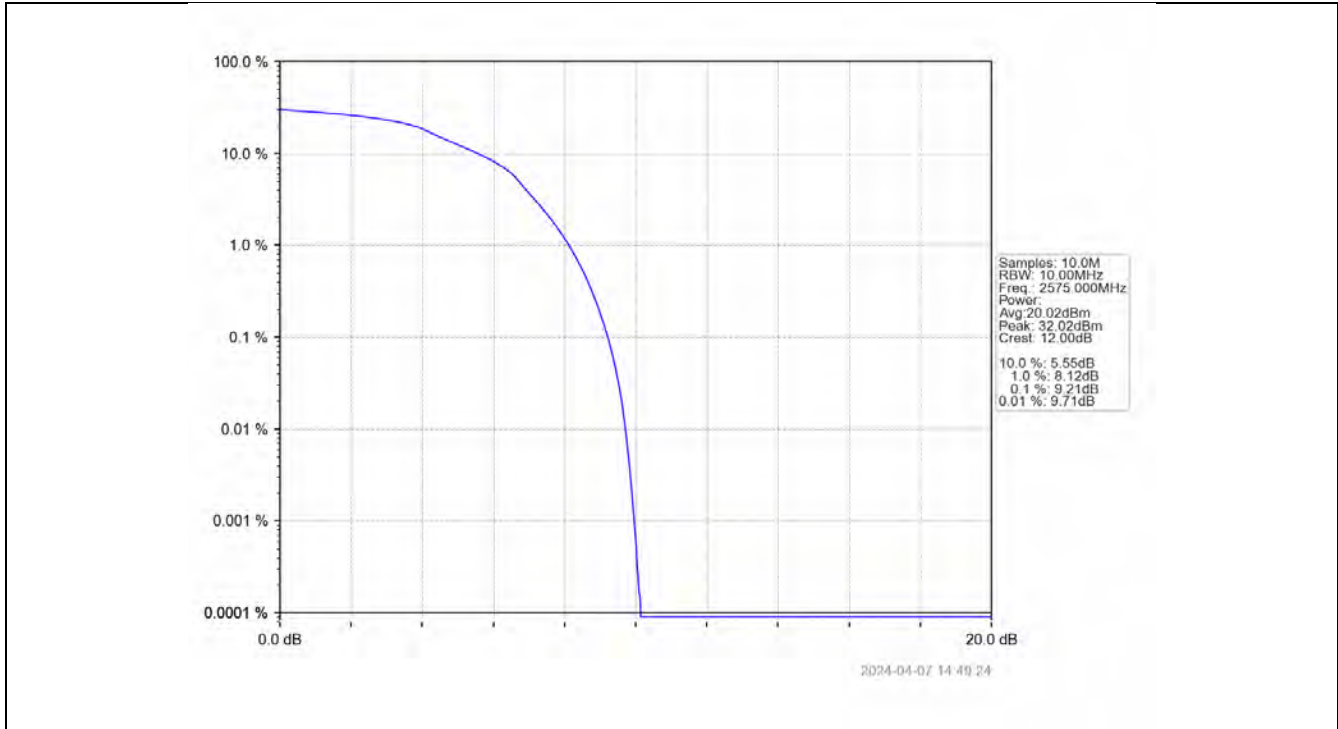


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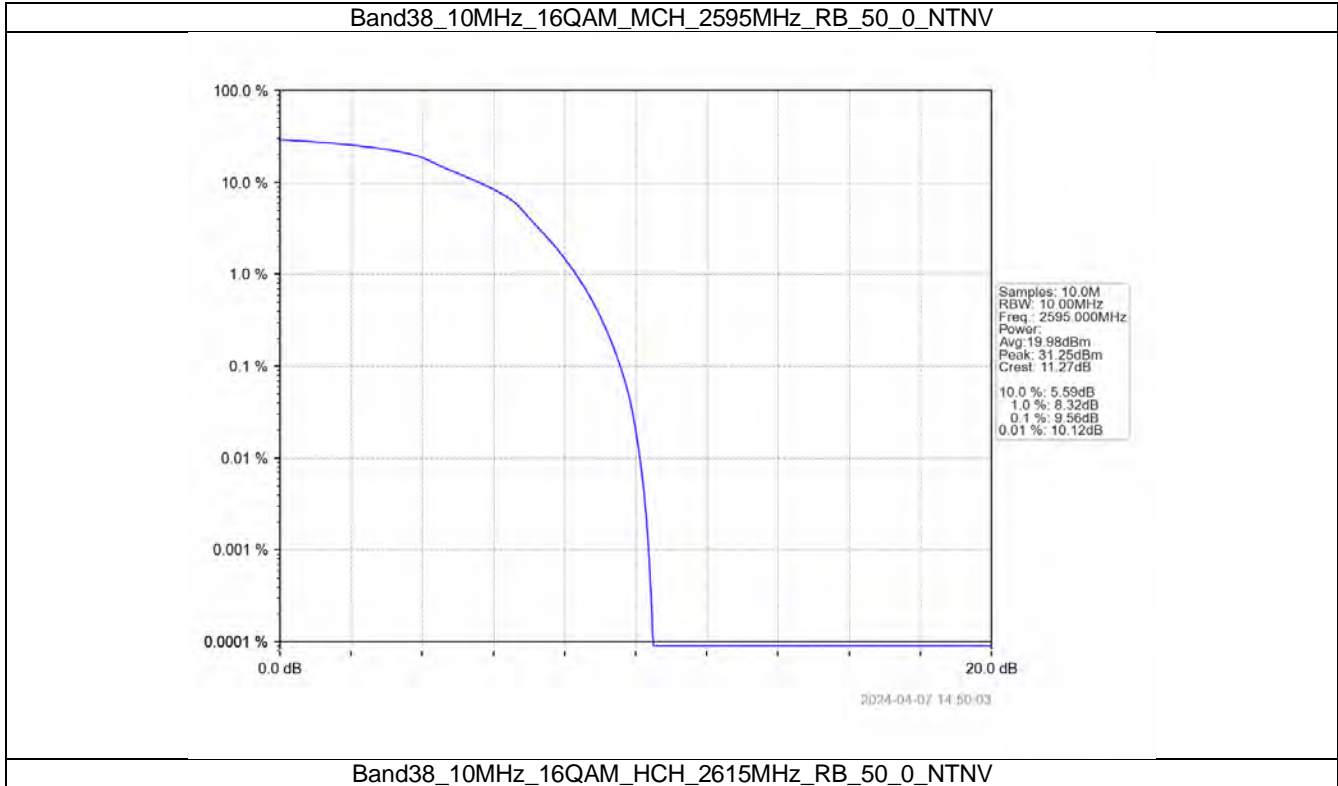


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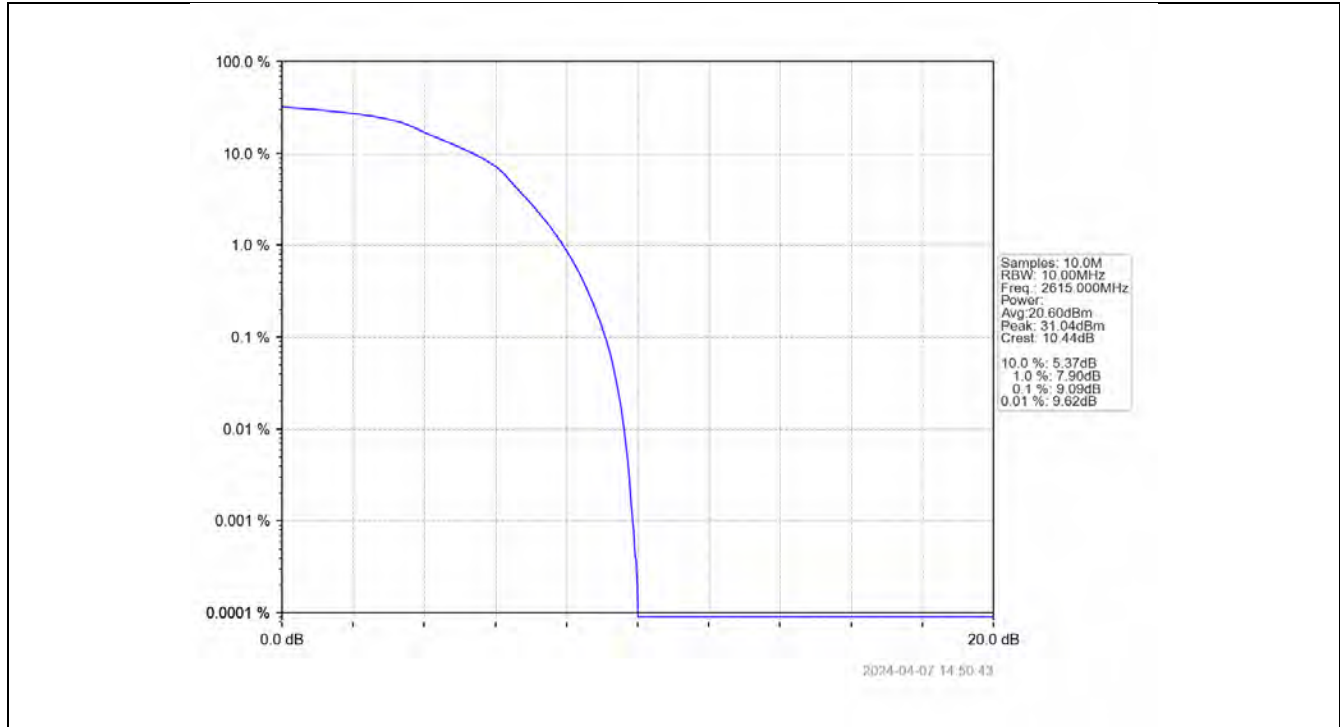


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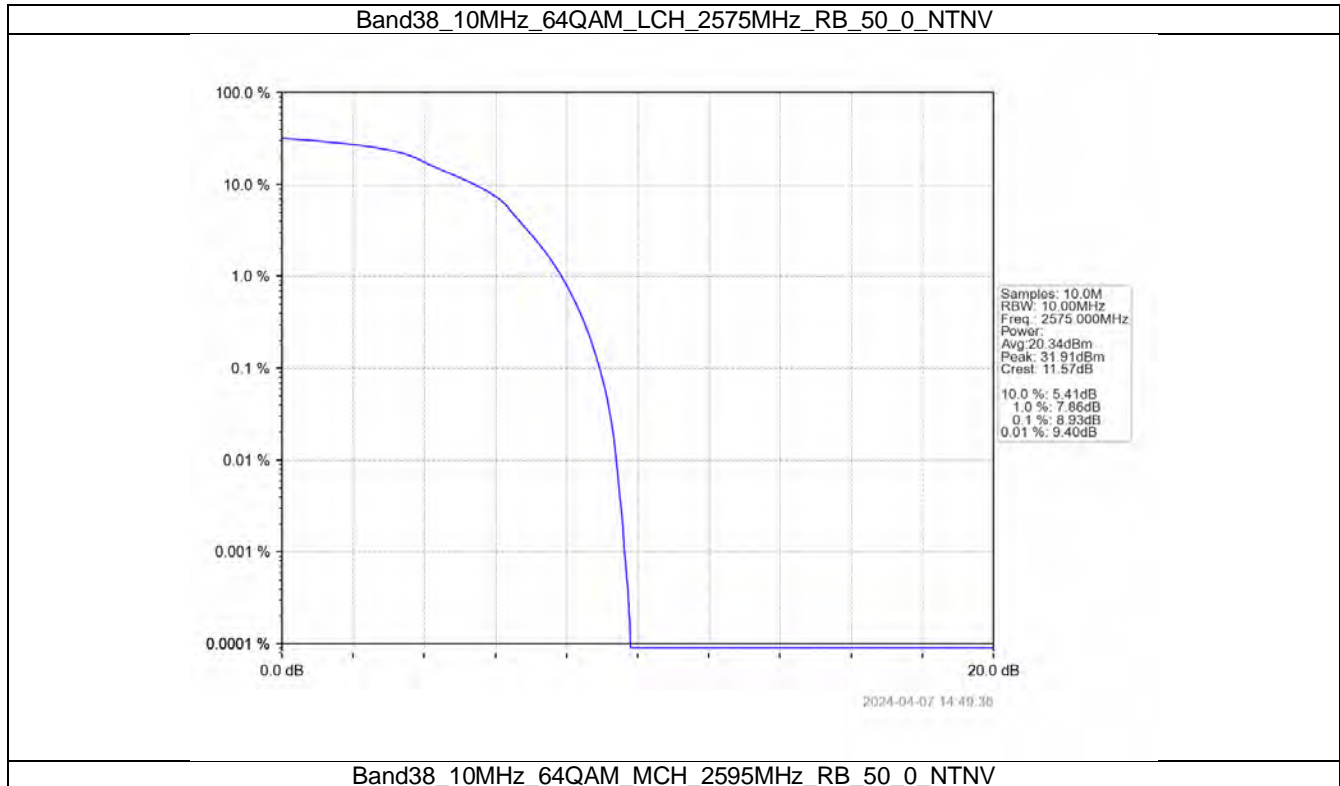


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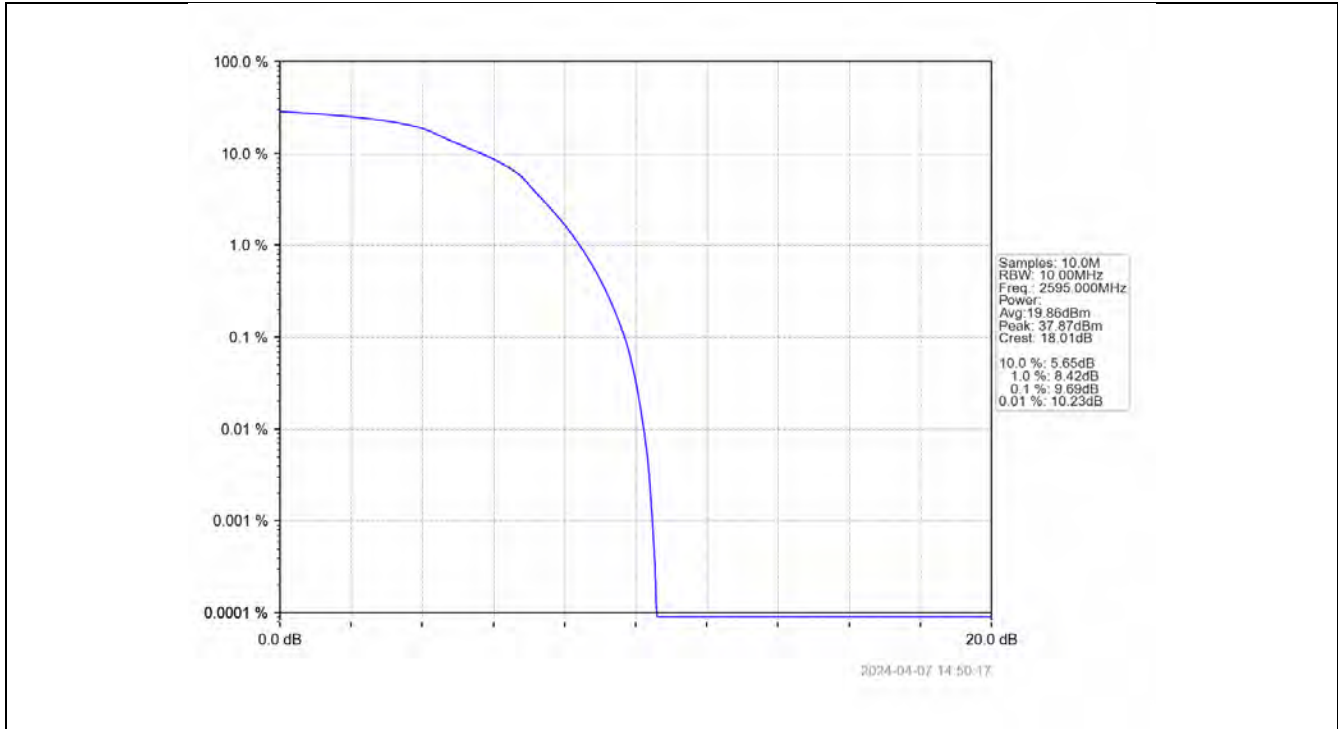


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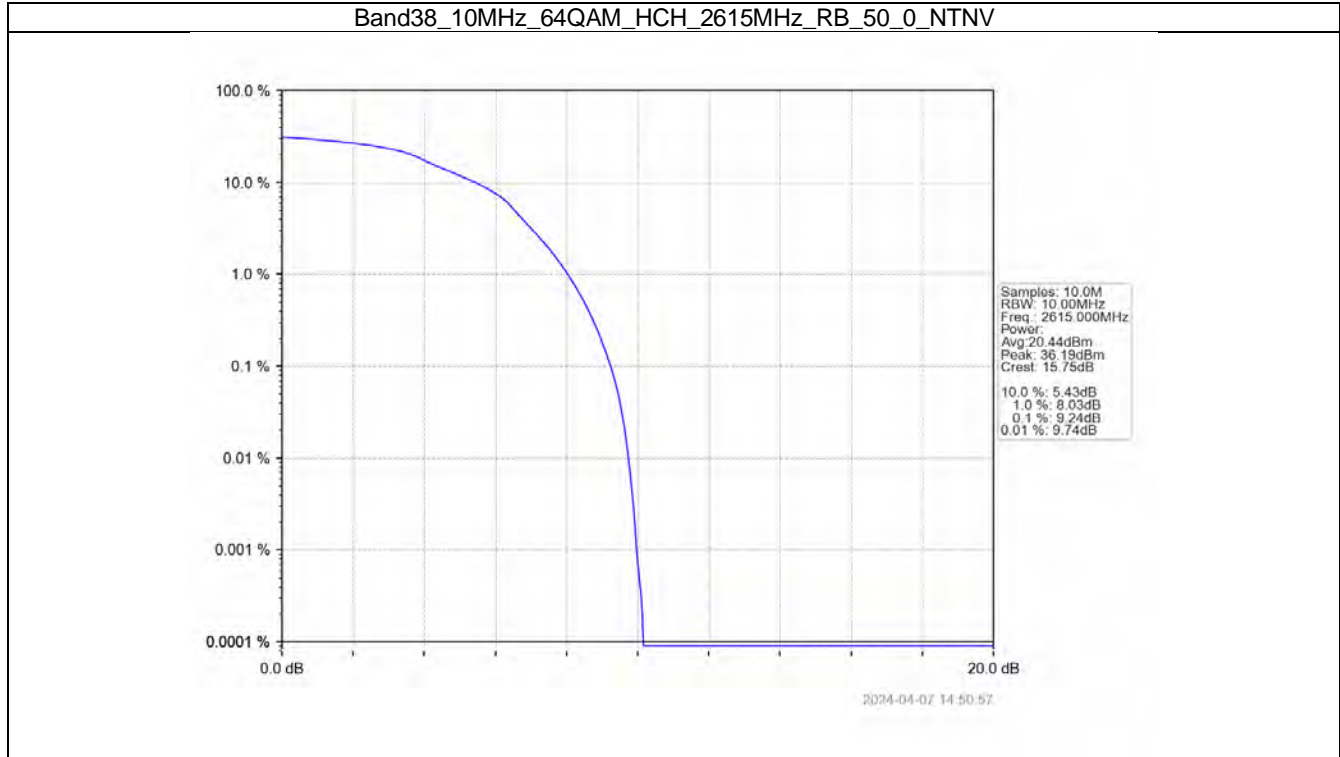


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4.3 B38_15MHz

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	7.69	<=13	Pass
	2595	75	0	8.74	<=13	Pass
	2612.5	75	0	8.68	<=13	Pass
16QAM	2577.5	75	0	9.38	<=13	Pass
	2595	75	0	9.56	<=13	Pass
	2612.5	75	0	9.77	<=13	Pass
64QAM	2577.5	75	0	8.80	<=13	Pass
	2595	75	0	9.68	<=13	Pass
	2612.5	75	0	9.18	<=13	Pass



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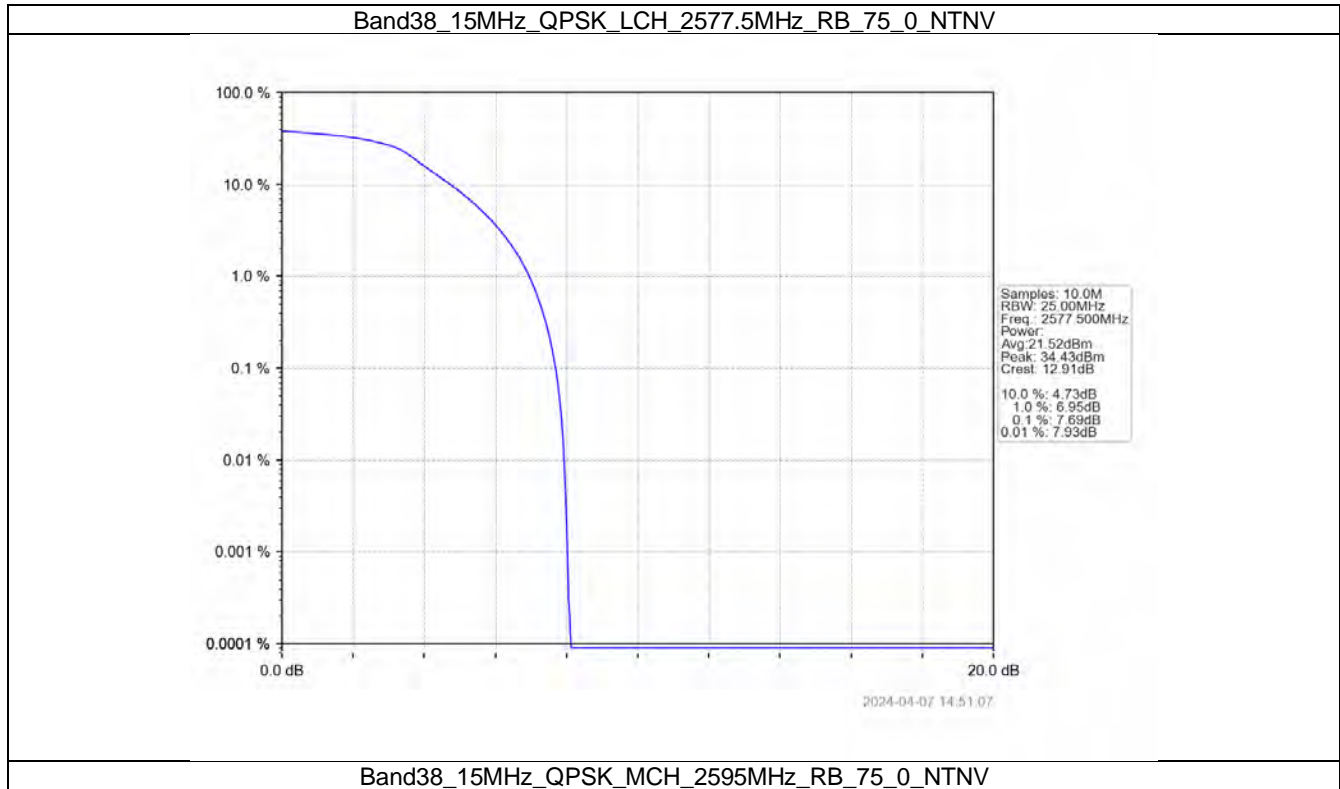
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4.3.2 Test Graph



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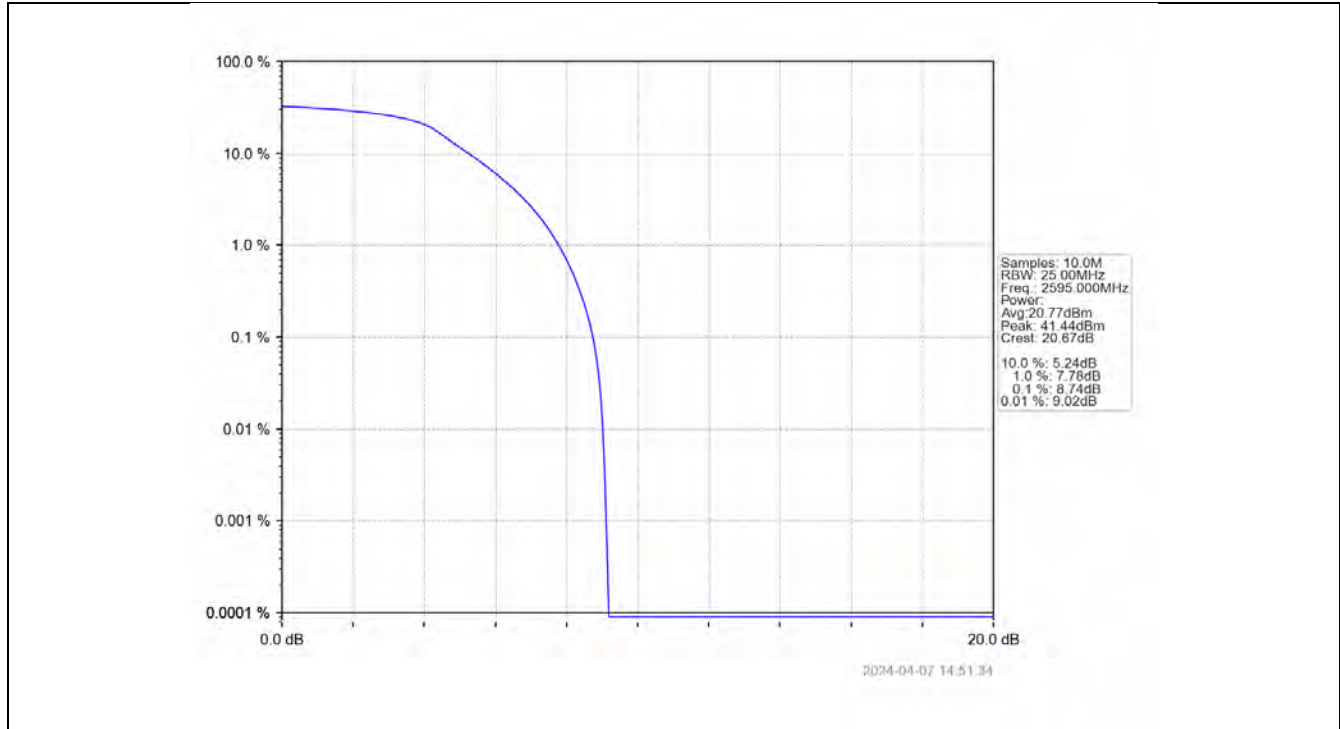


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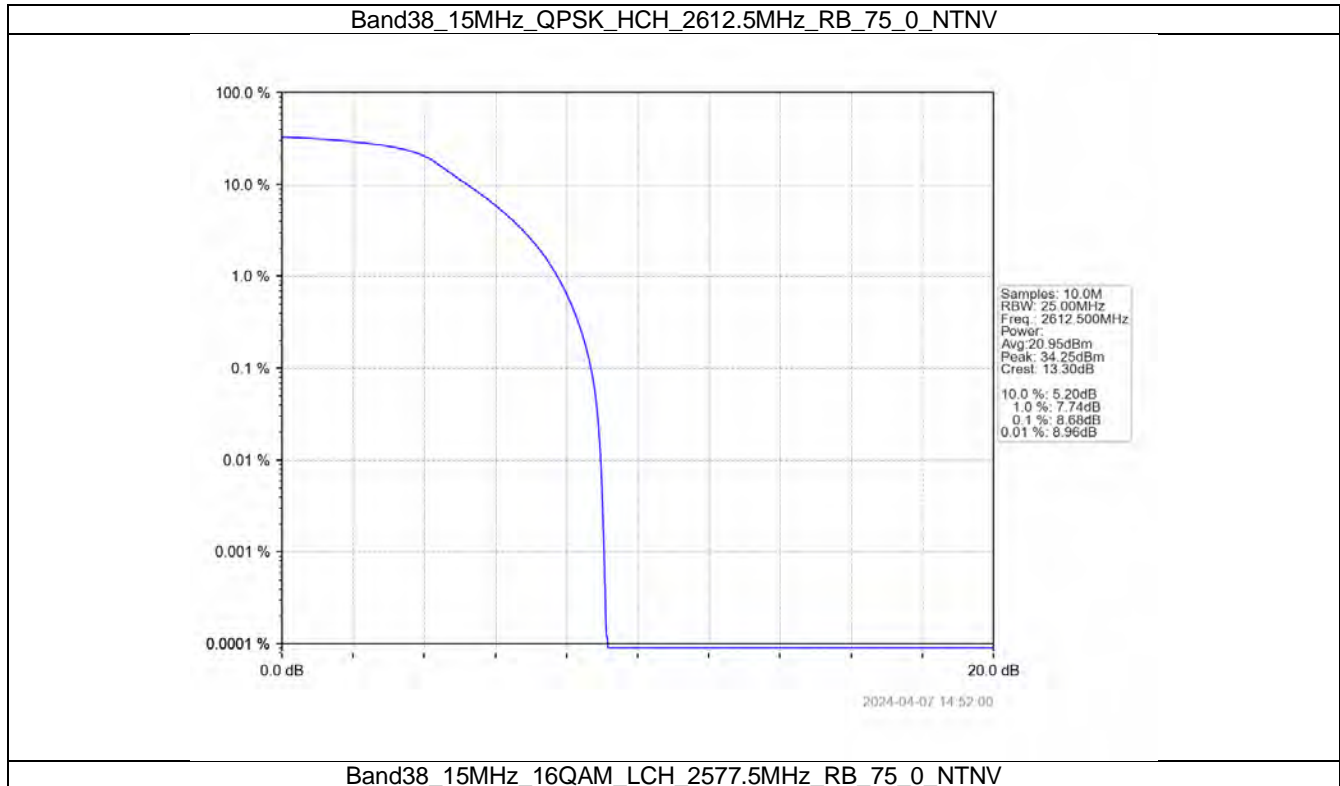


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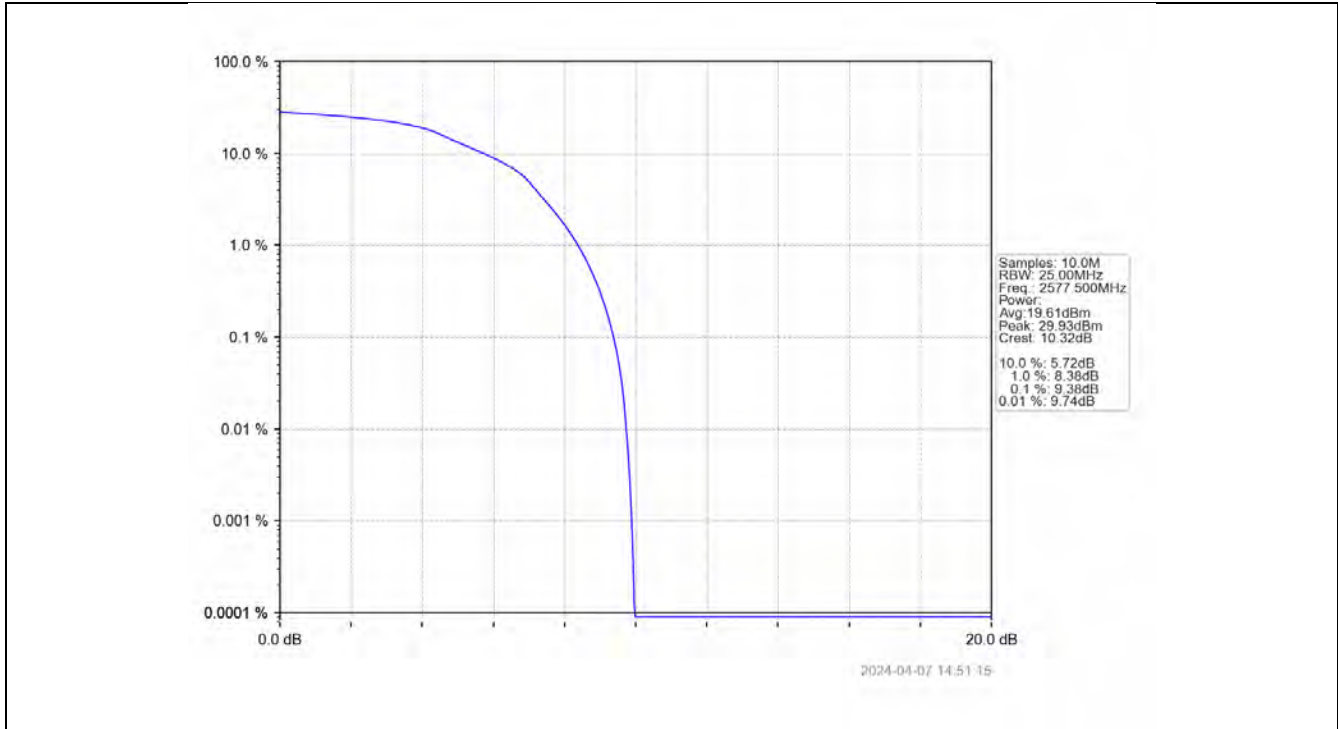


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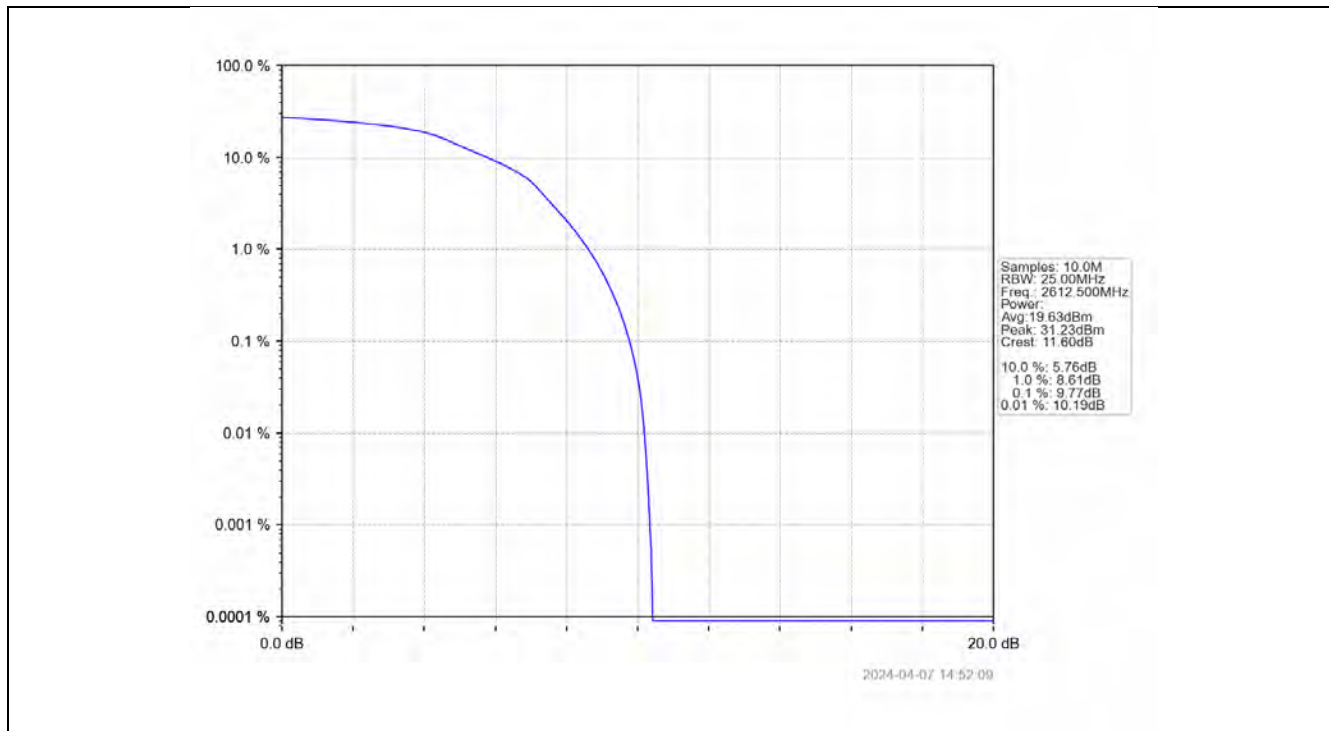
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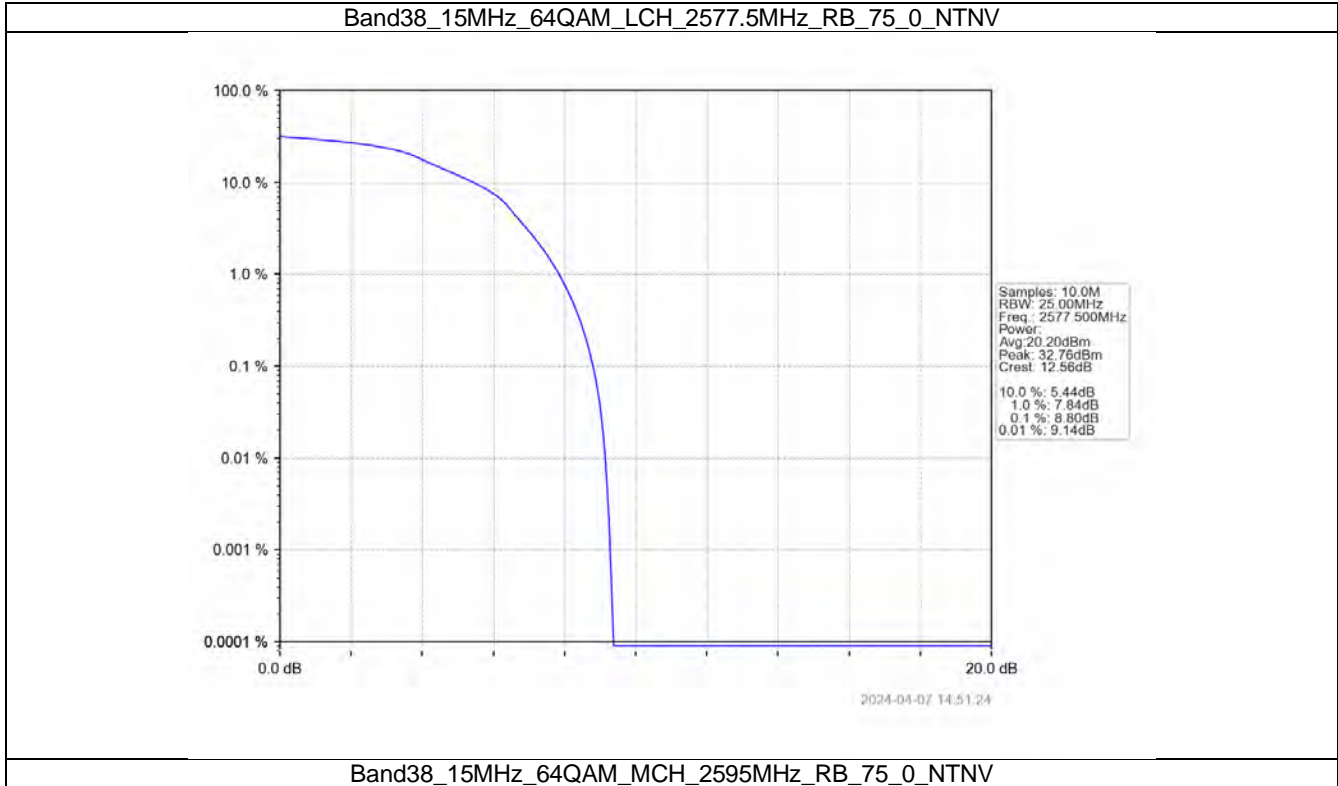


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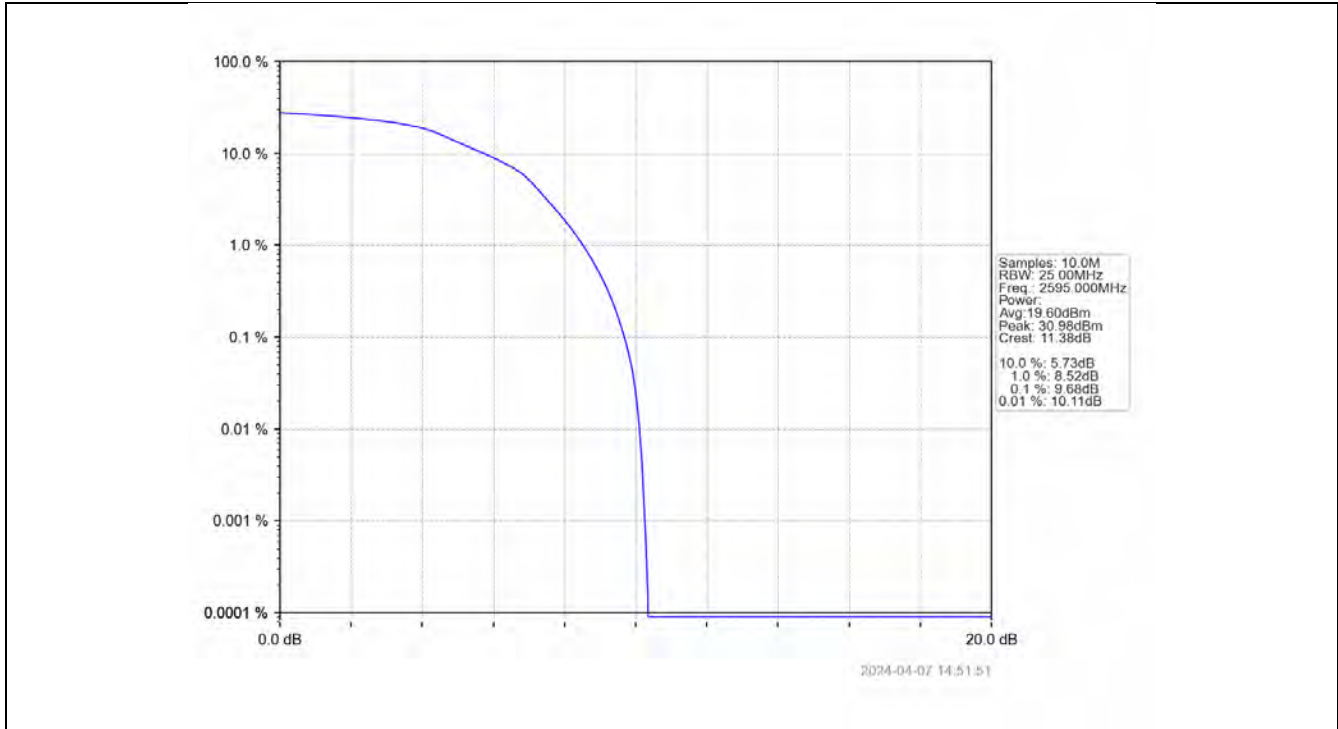


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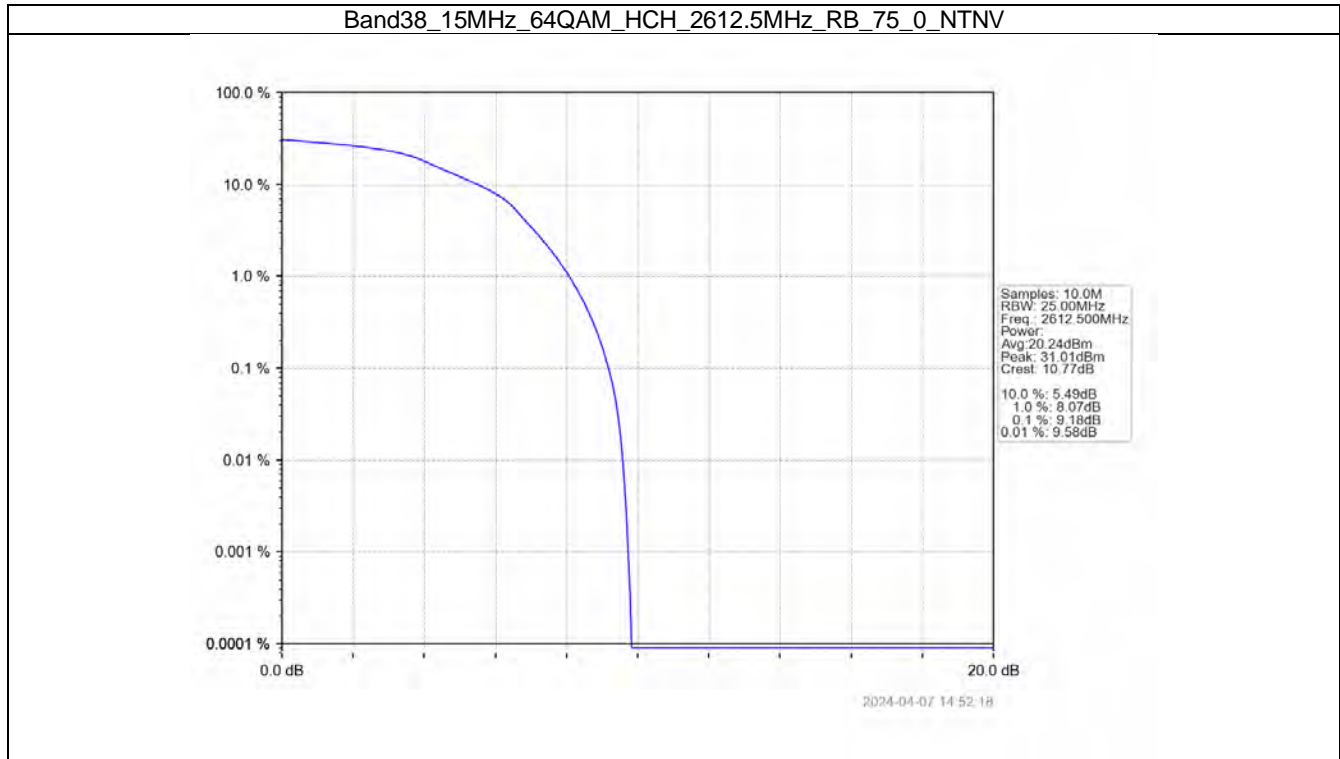


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4.4 B38_20MHz

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	8.80	<=13	Pass
	2595	100	0	8.53	<=13	Pass
	2610	100	0	8.56	<=13	Pass
16QAM	2580	100	0	9.42	<=13	Pass
	2595	100	0	9.05	<=13	Pass
	2610	100	0	9.63	<=13	Pass
64QAM	2580	100	0	9.09	<=13	Pass
	2595	100	0	9.66	<=13	Pass
	2610	100	0	9.21	<=13	Pass



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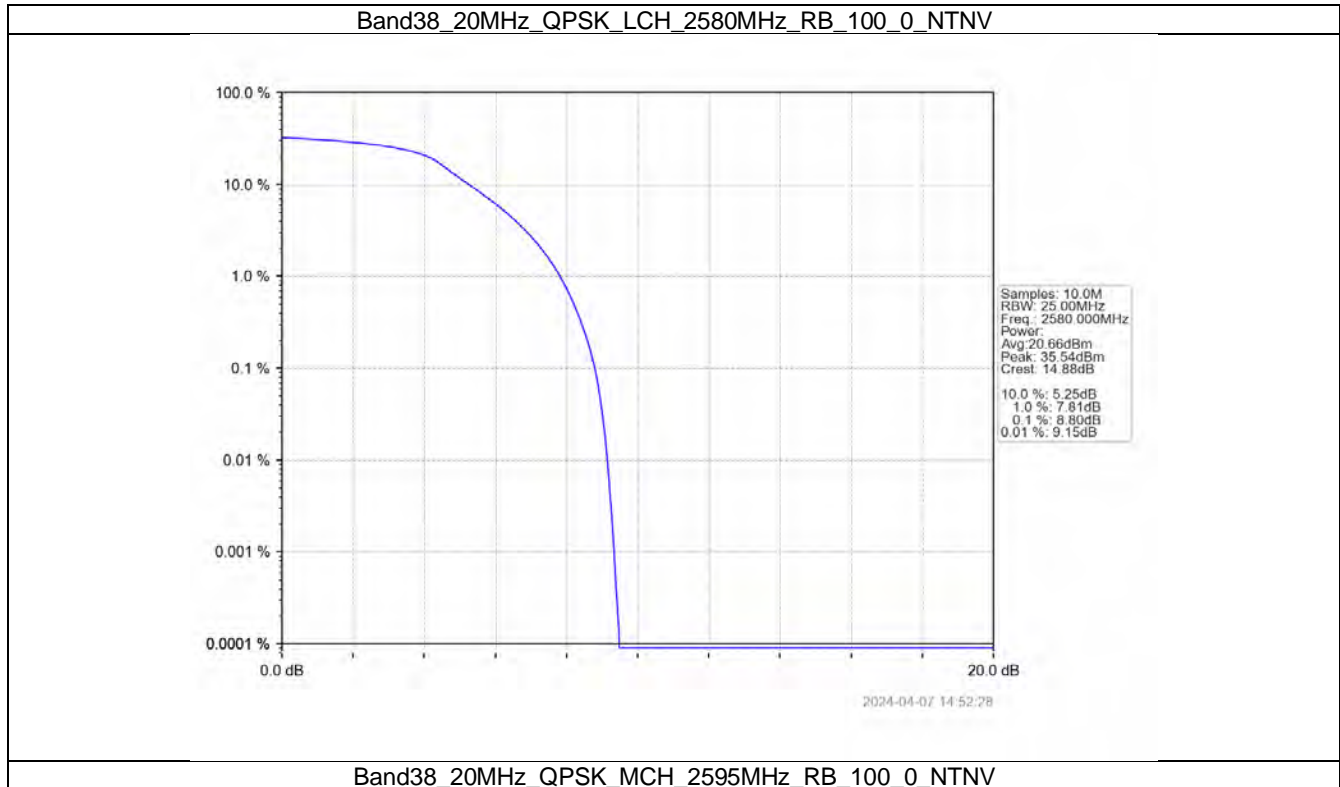
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4.4.2 Test Graph



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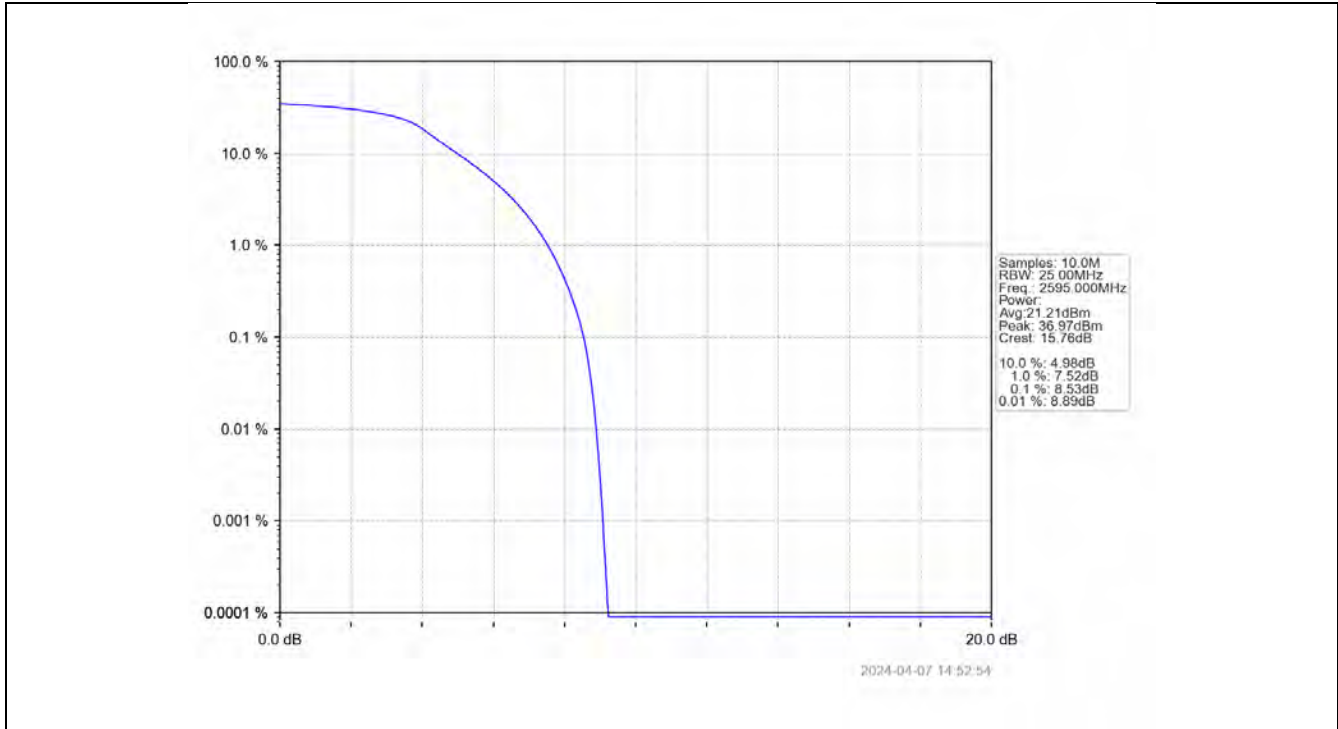


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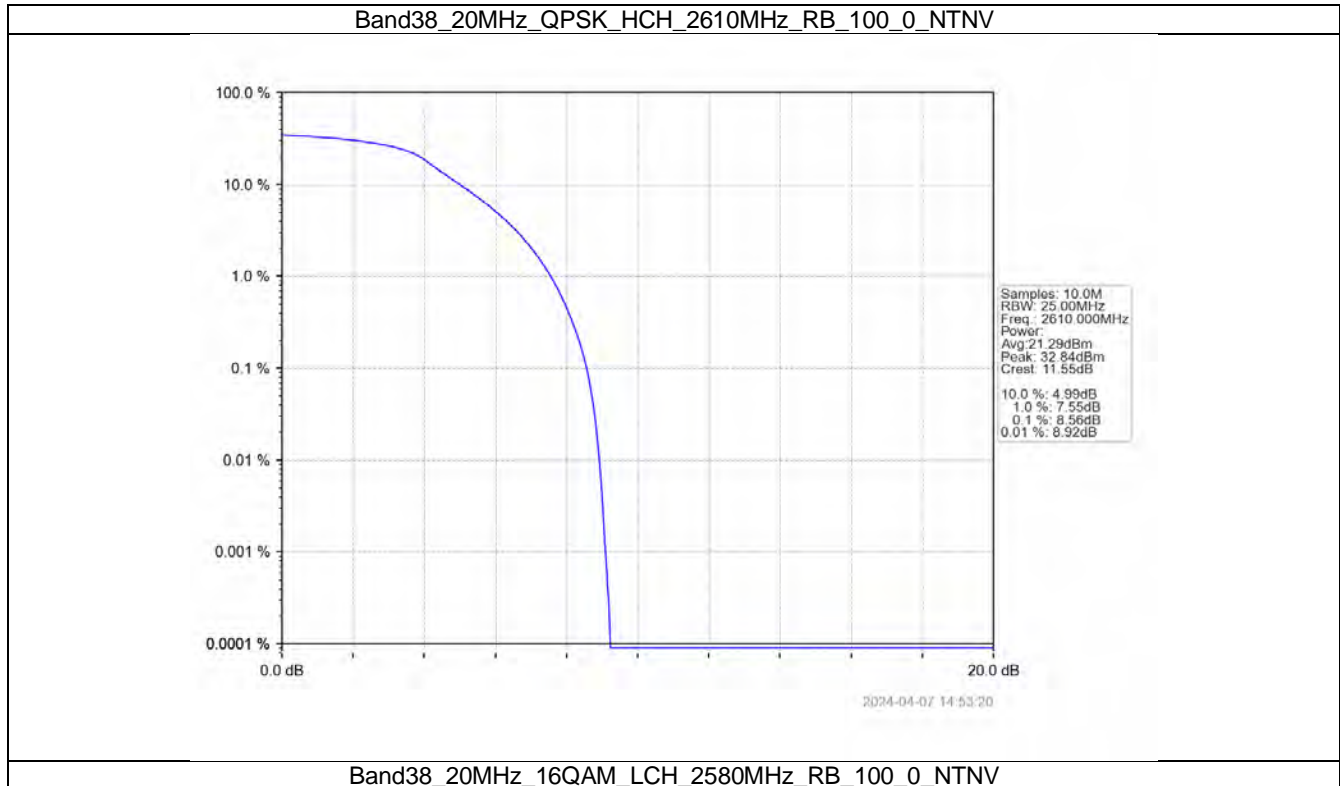


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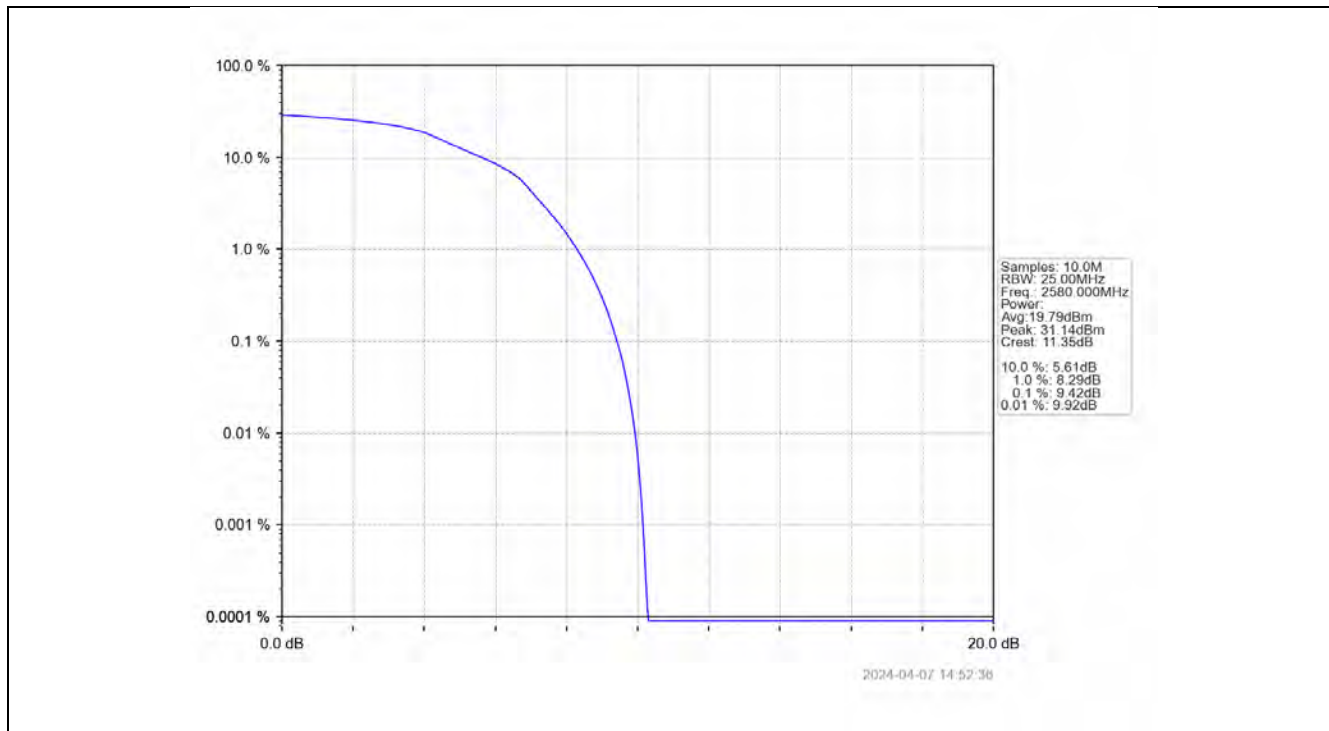
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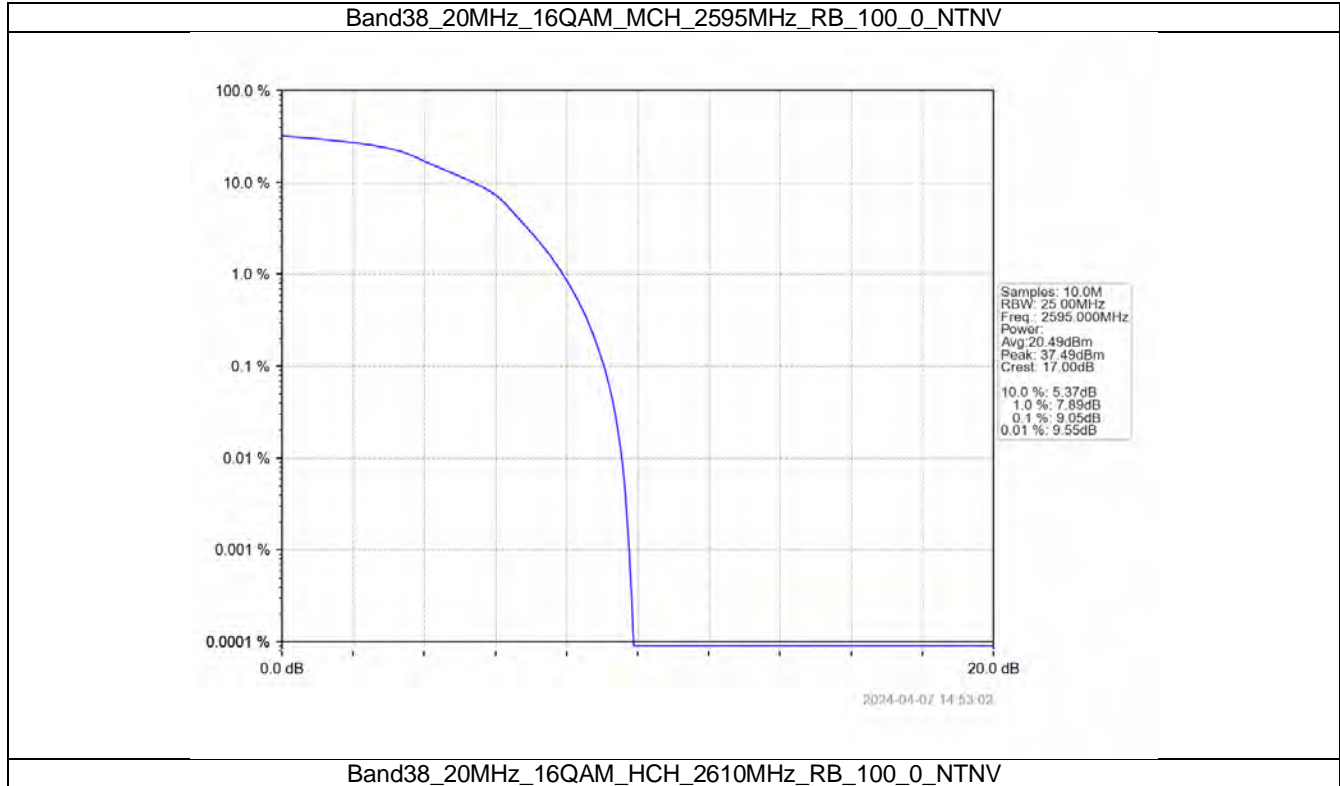


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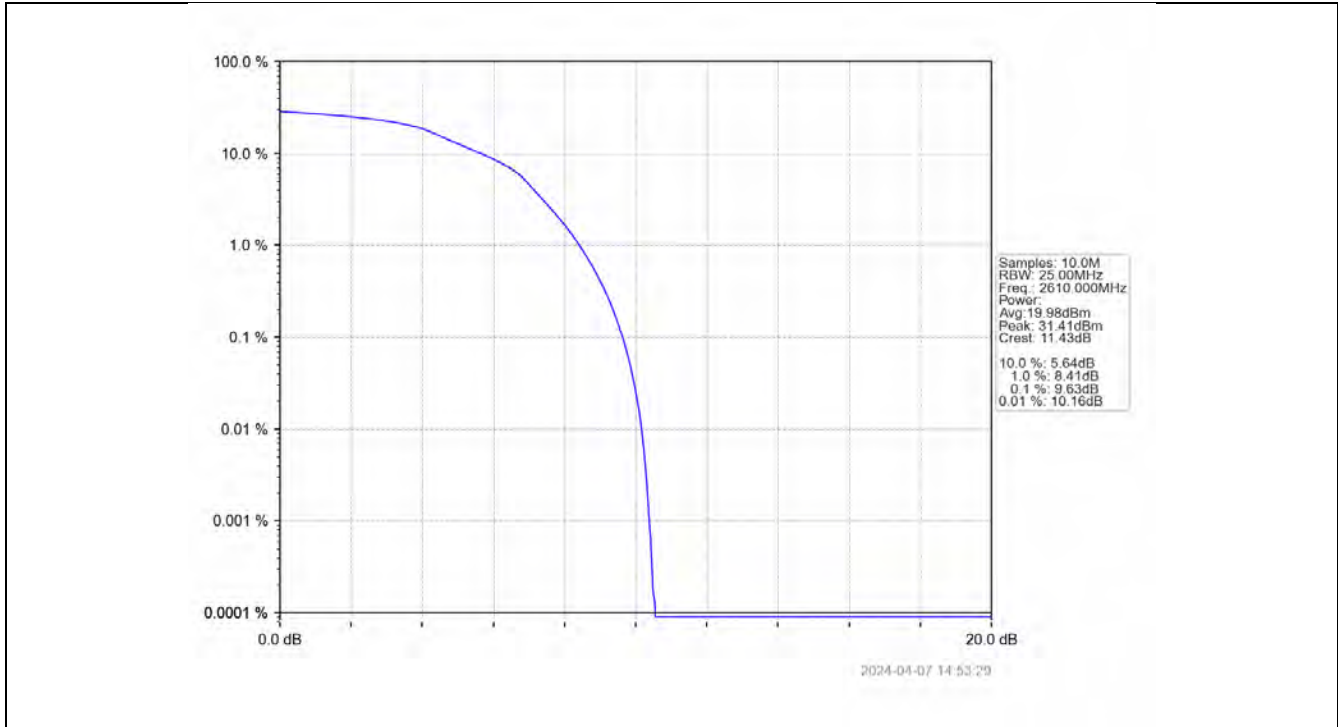


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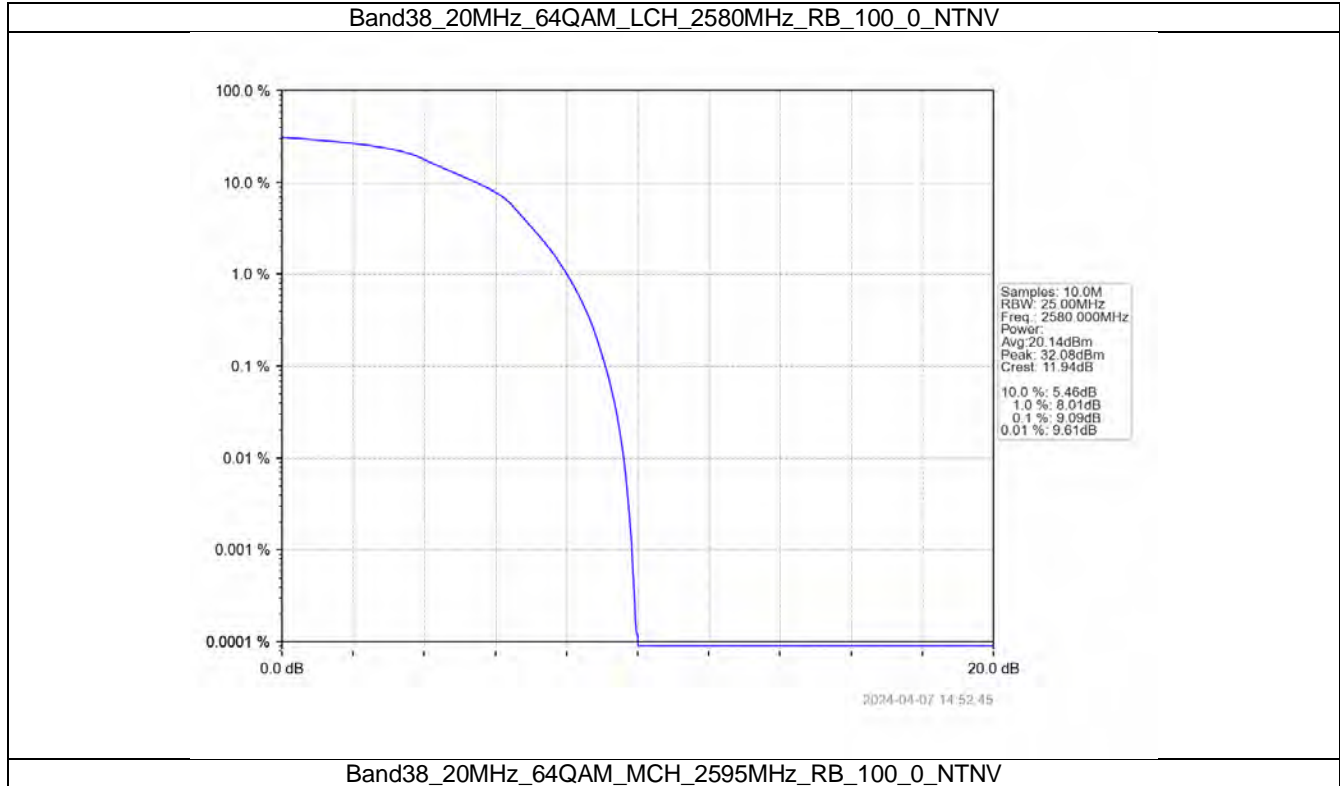


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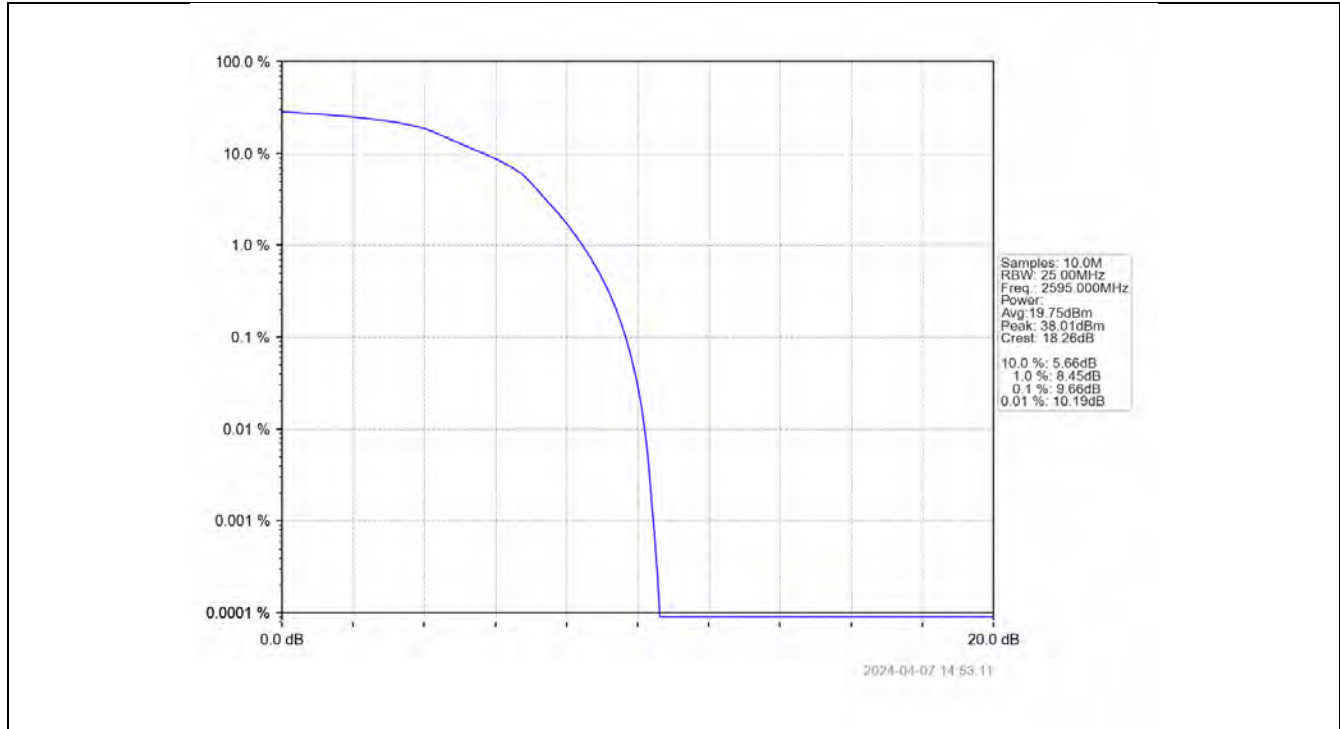


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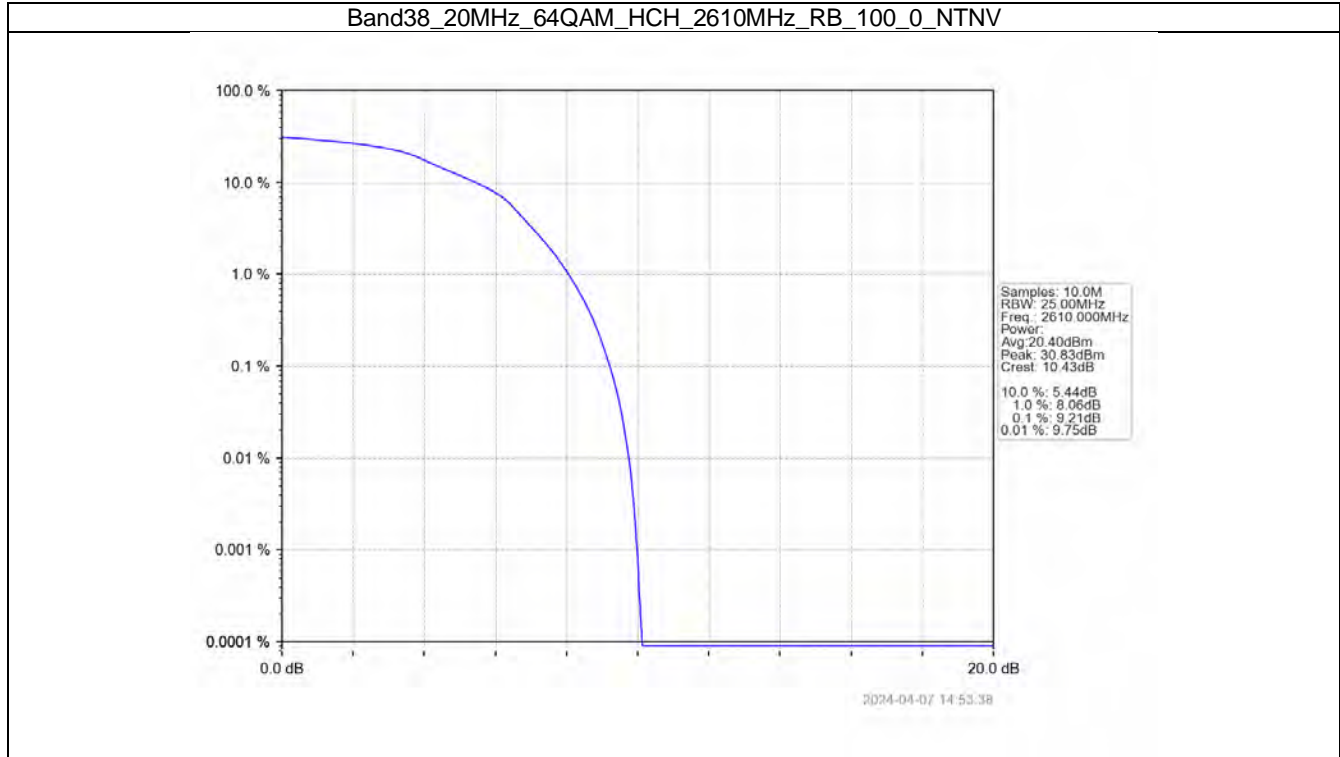


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5. Spurious Emission & Band Edges

5.1 B38_5MHz

5.1.1 Test Result

Band: 38 / Bandwidth: 5MHz / NTNV						
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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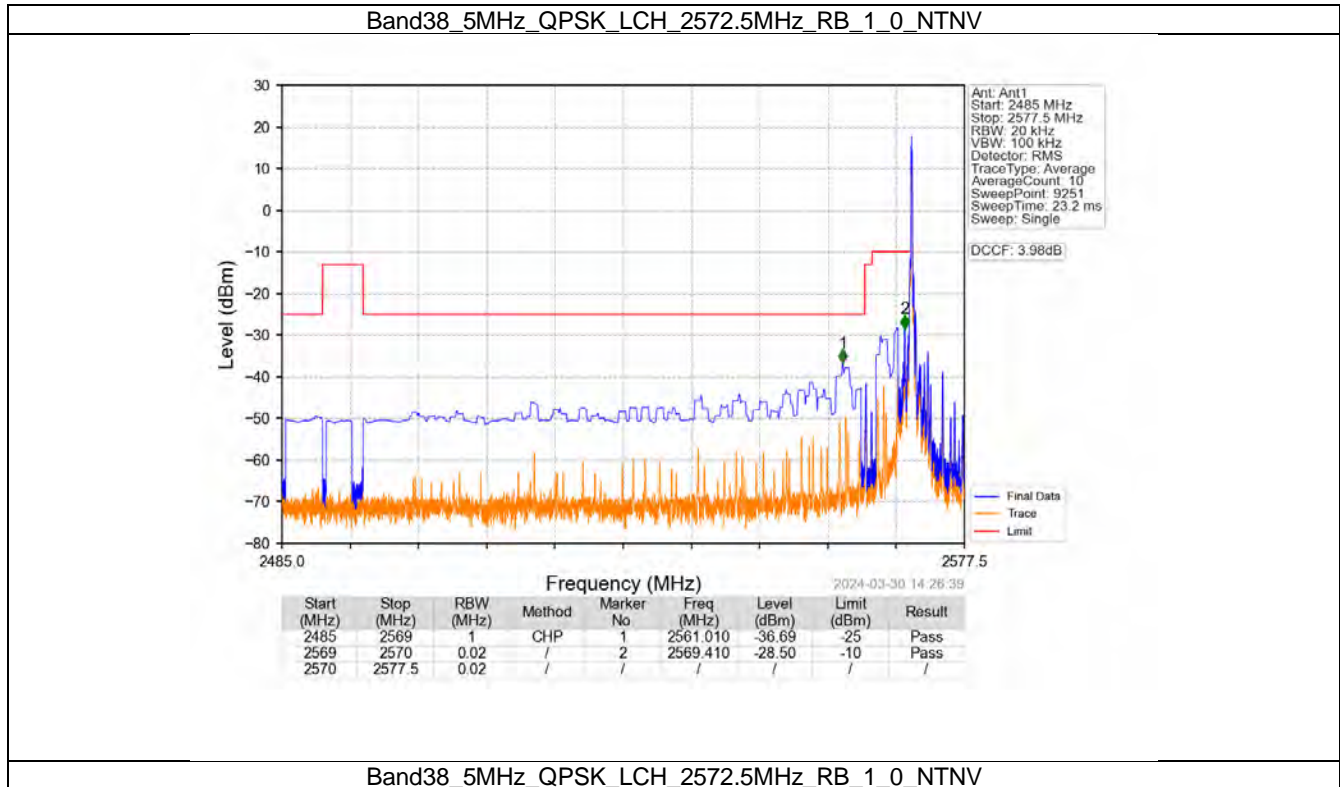
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5.1.2 Test Graph



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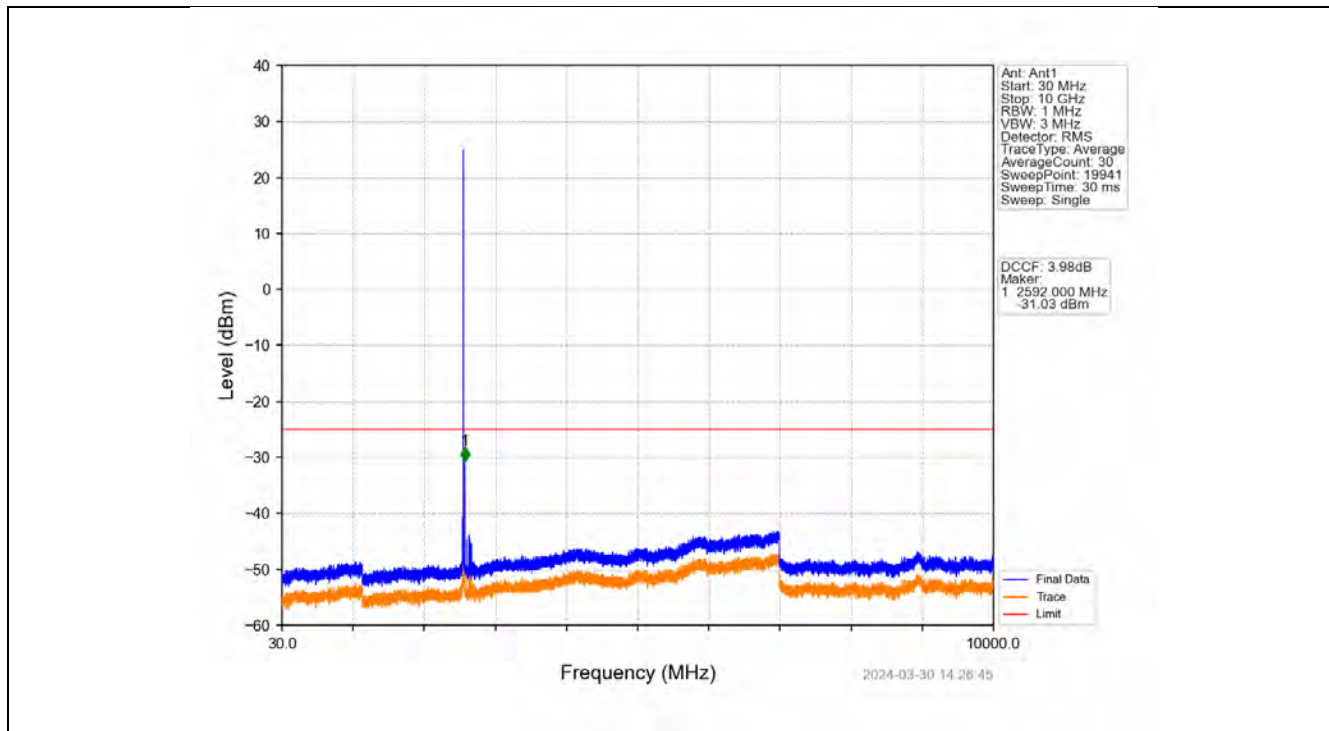
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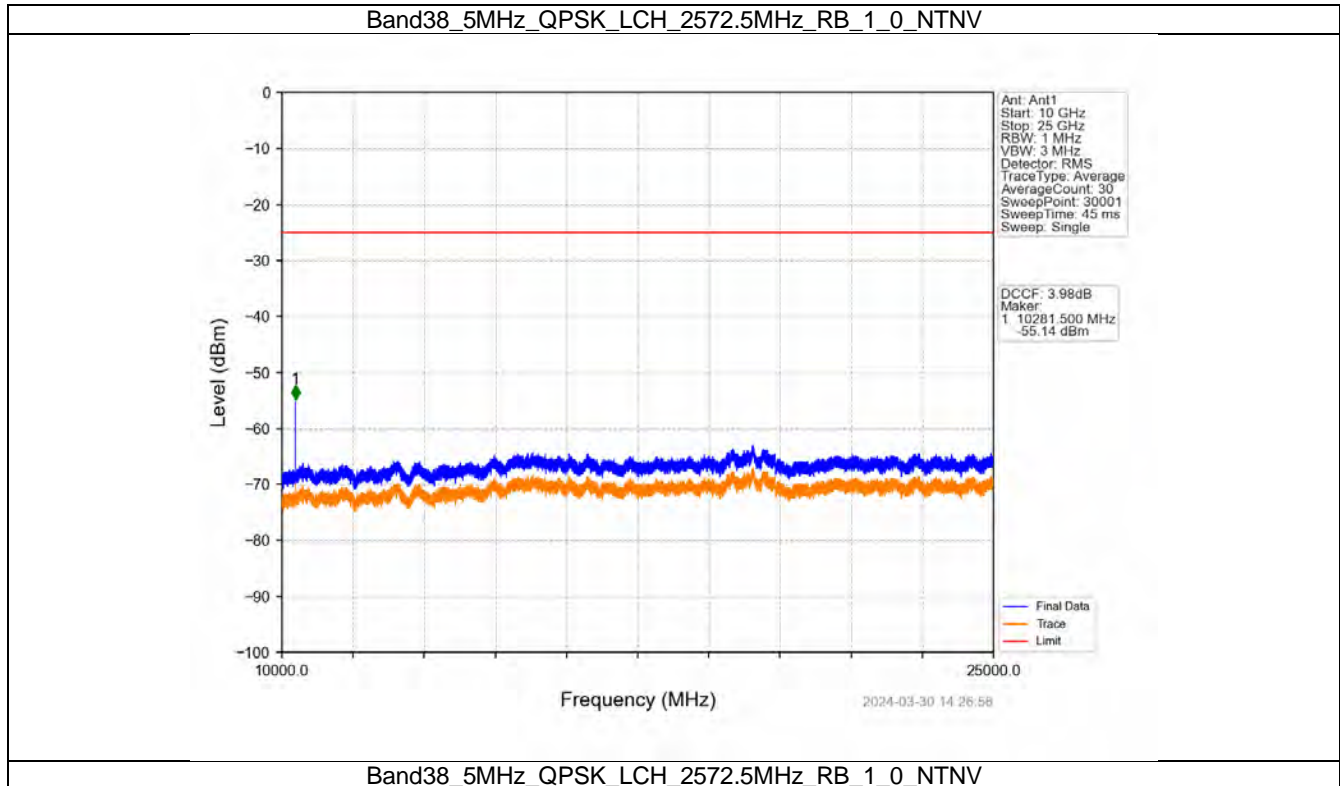


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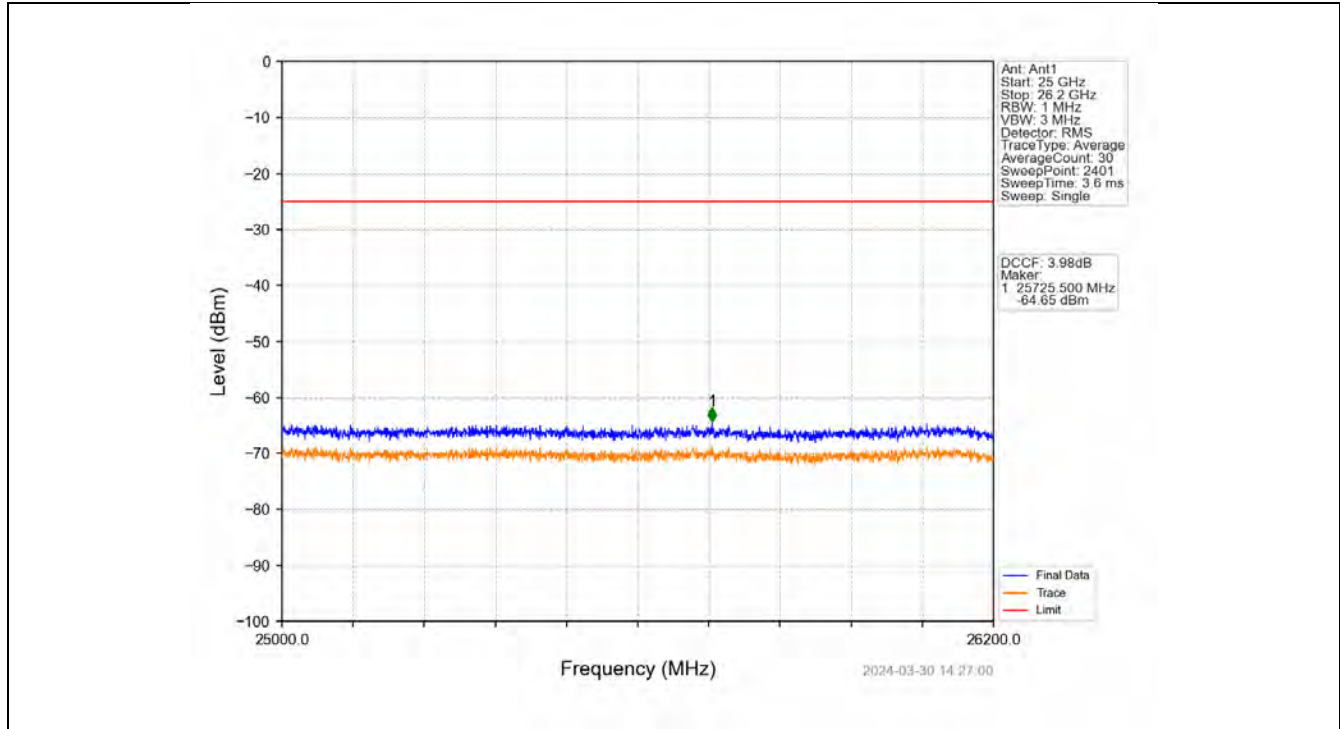


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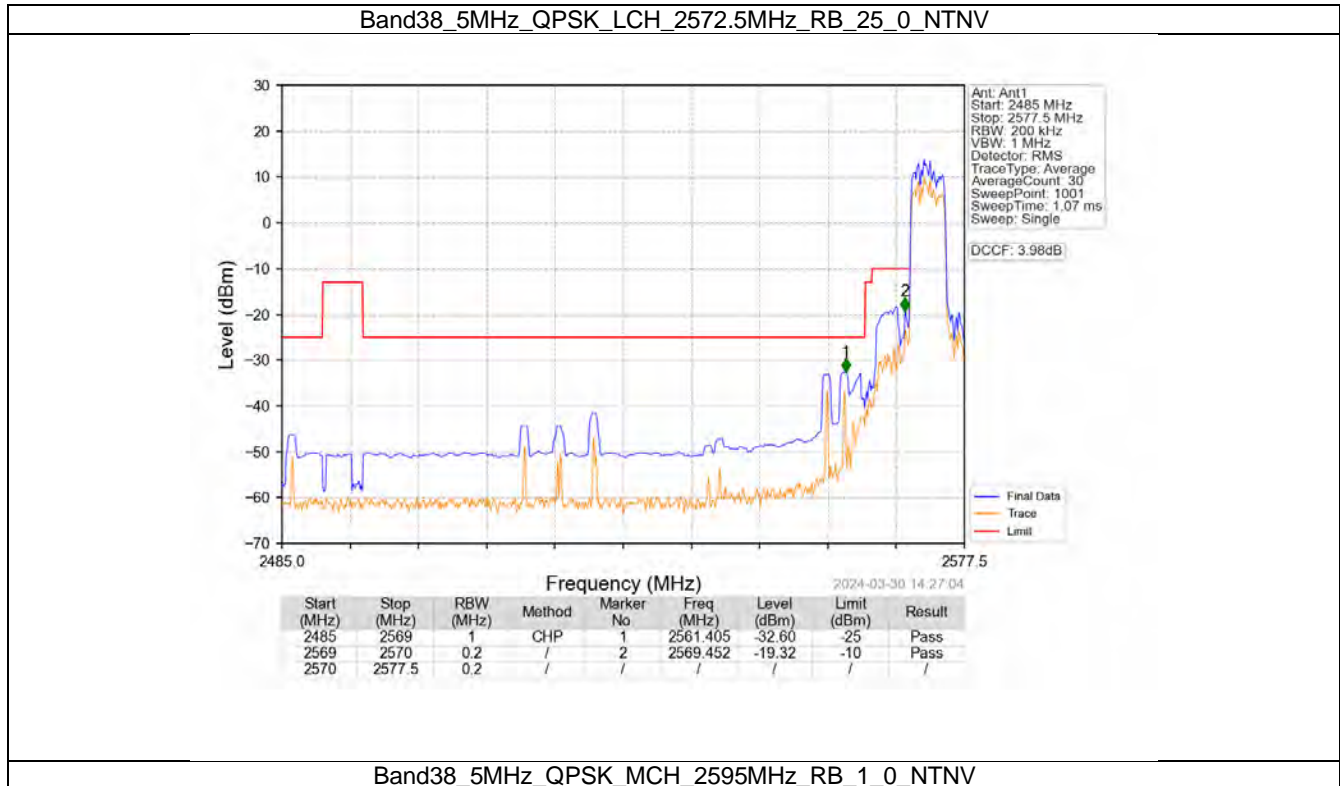


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Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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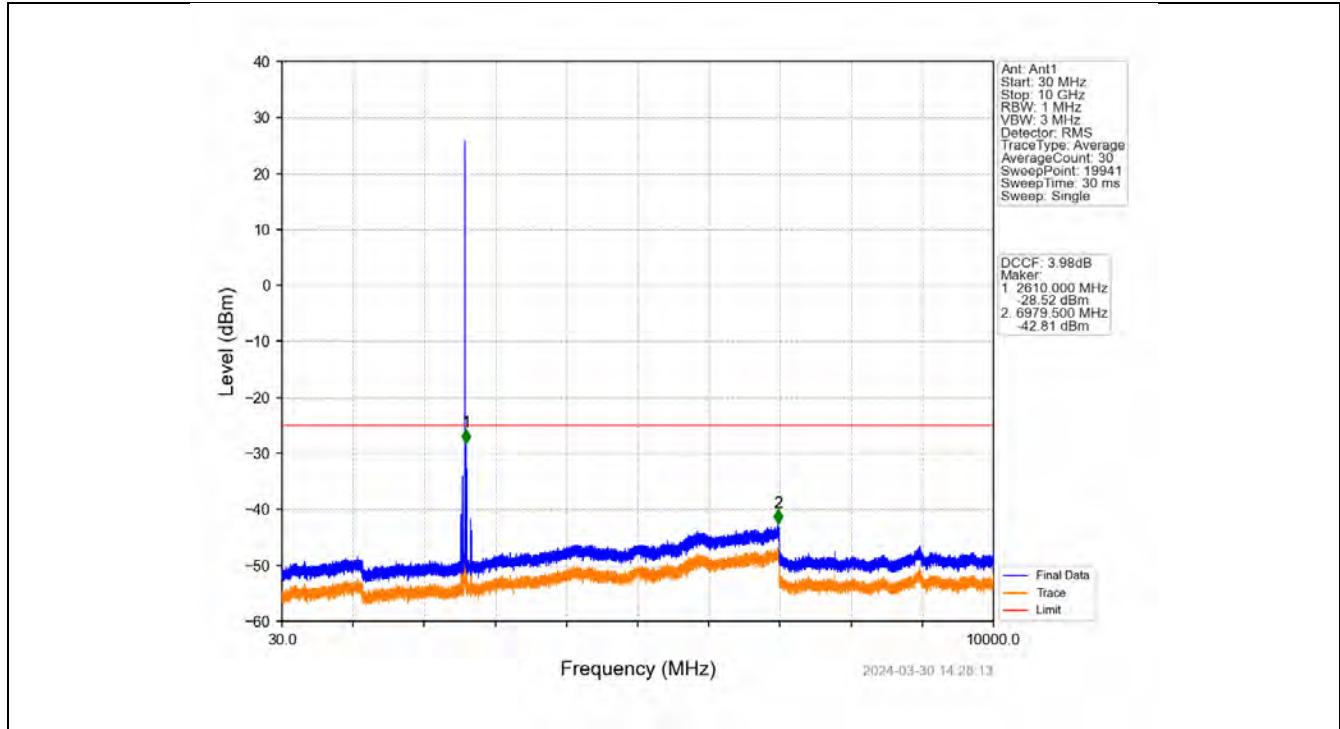


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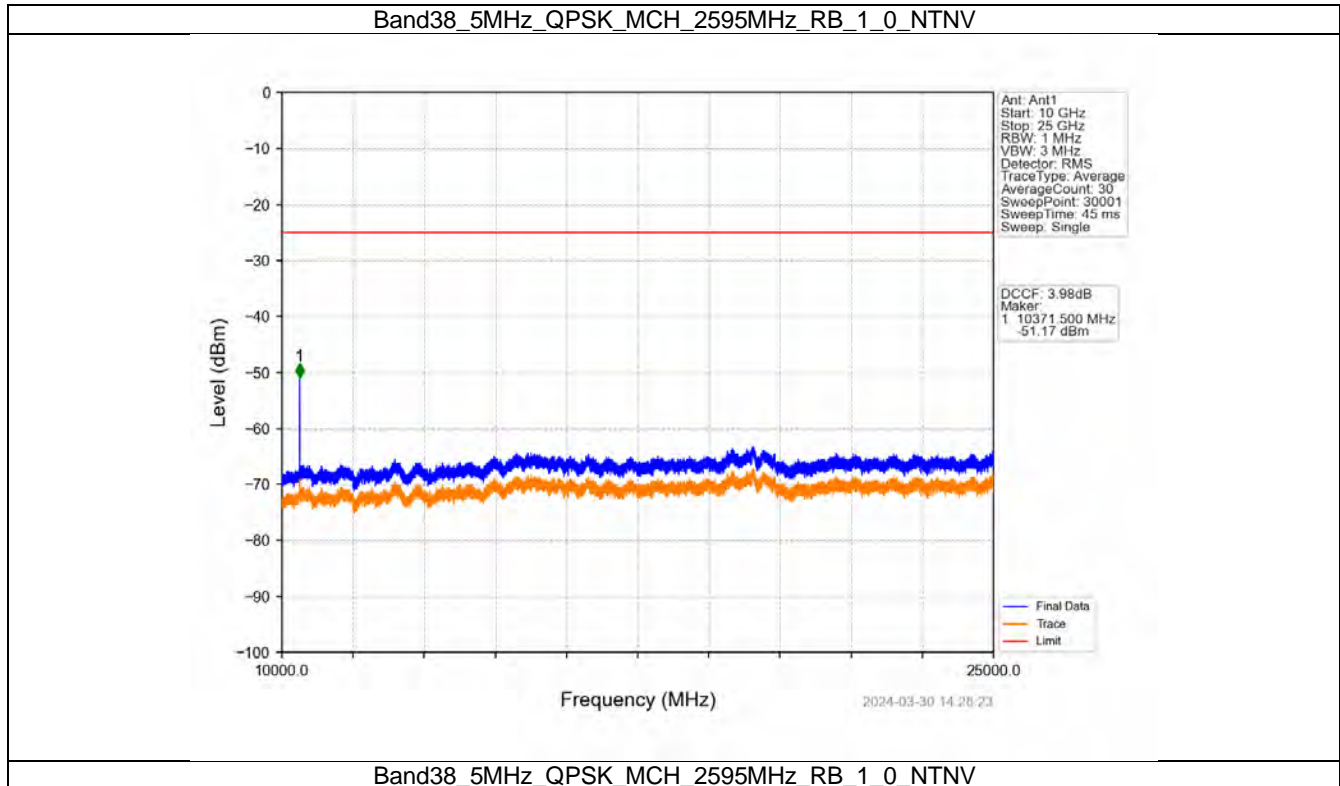


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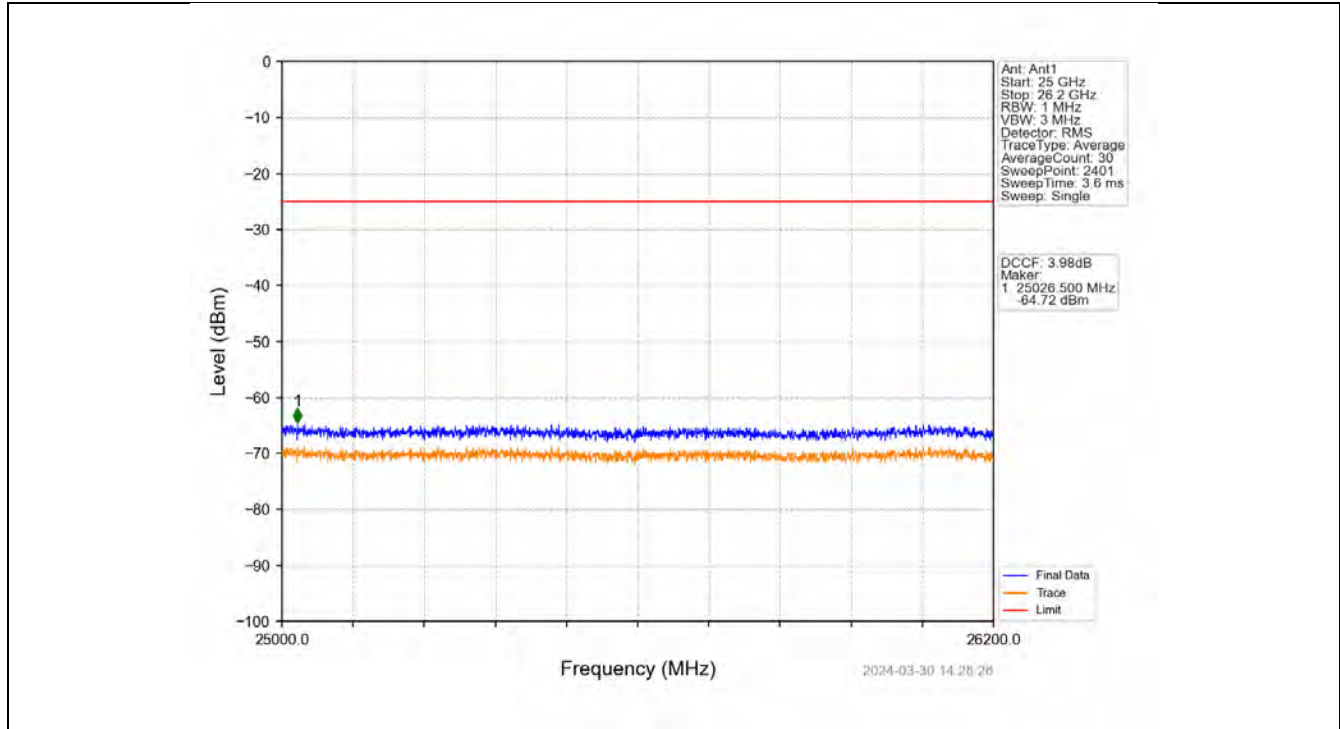
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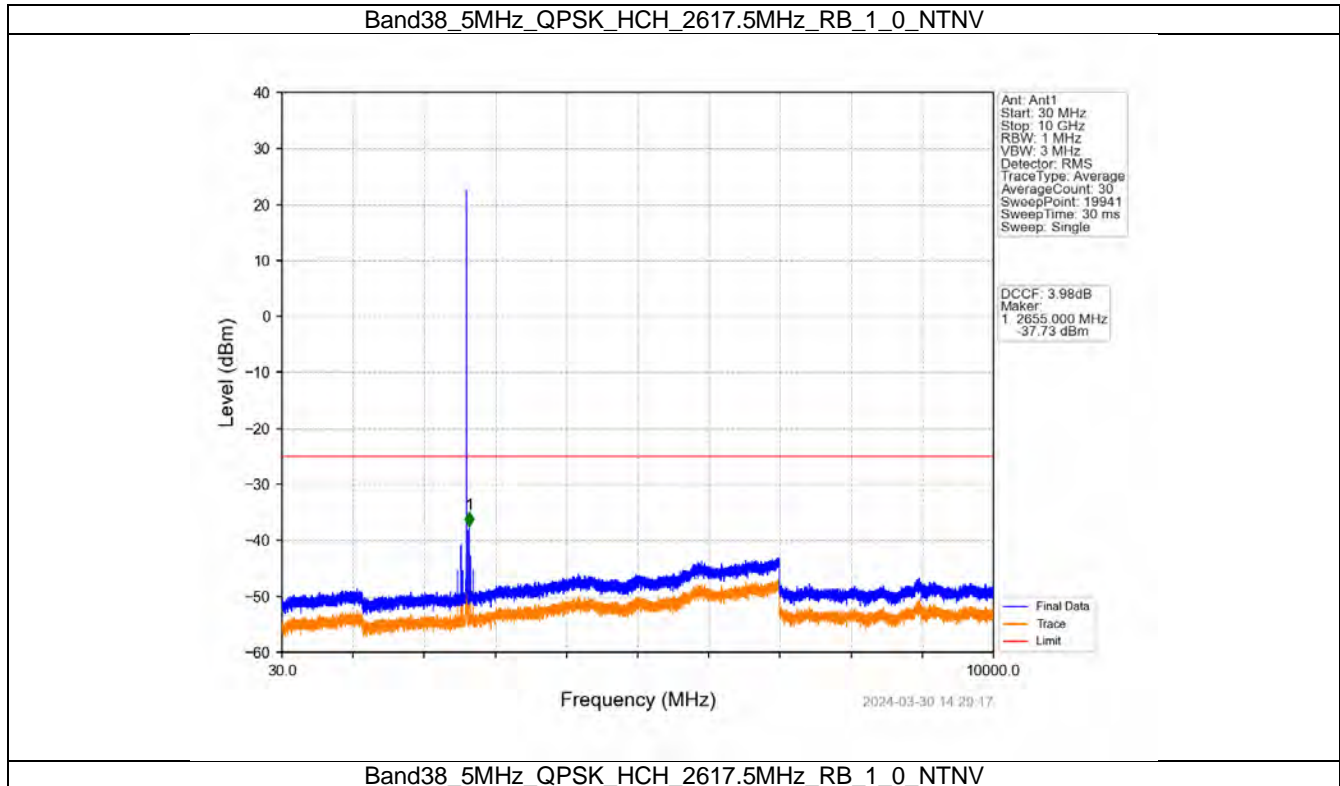


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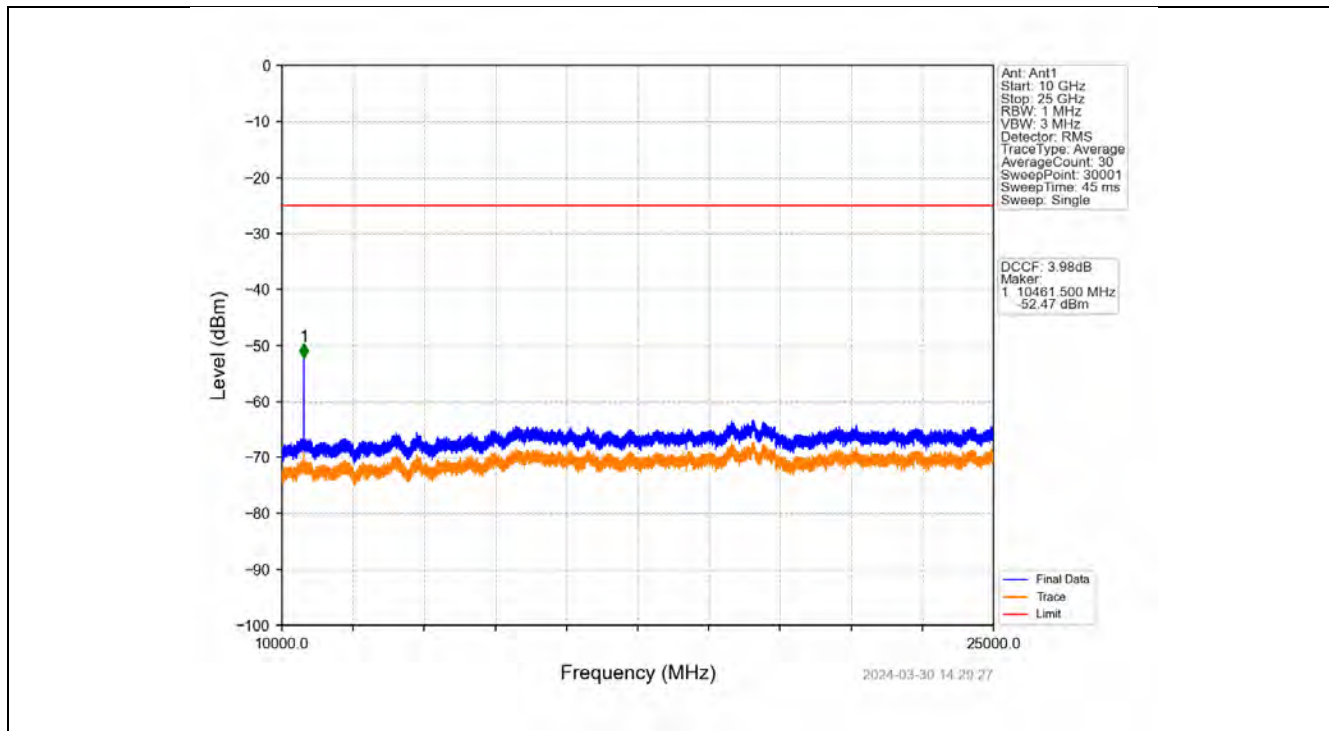
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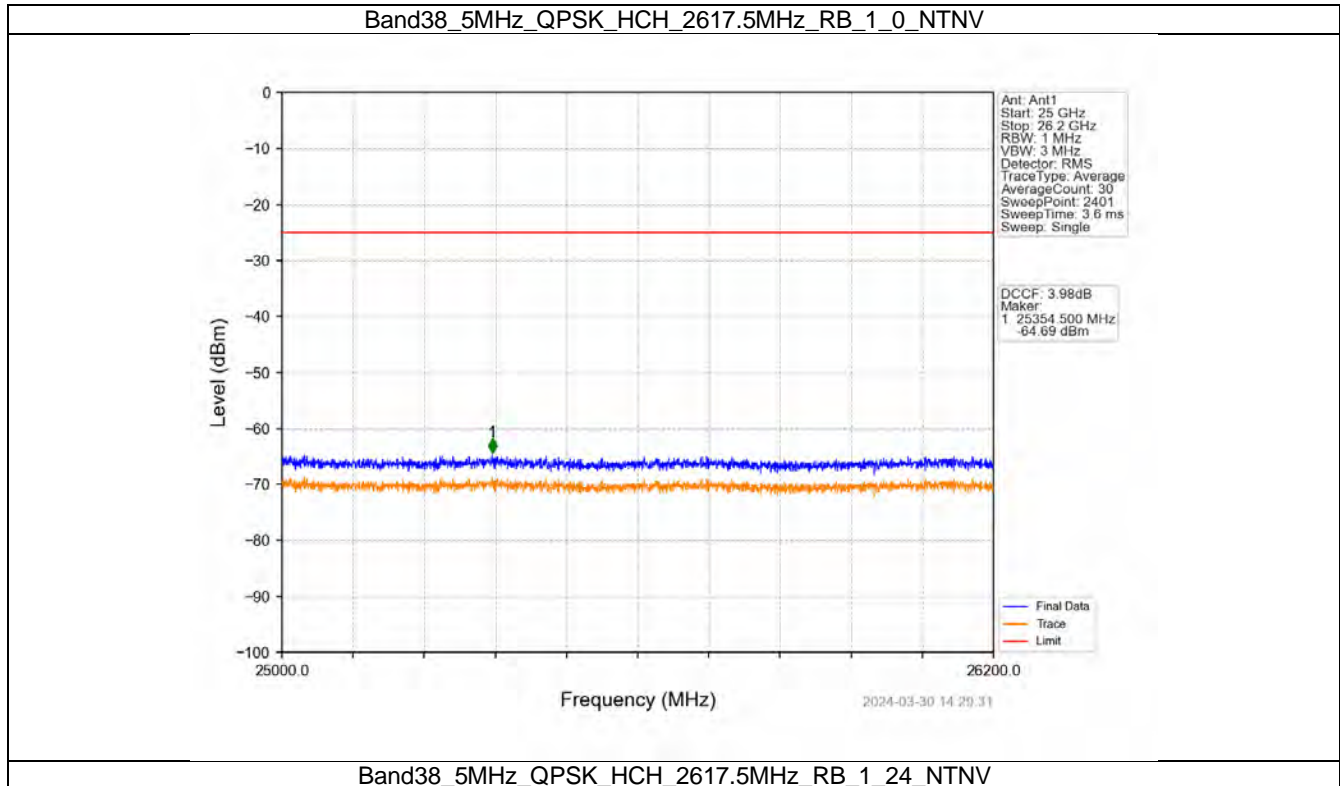


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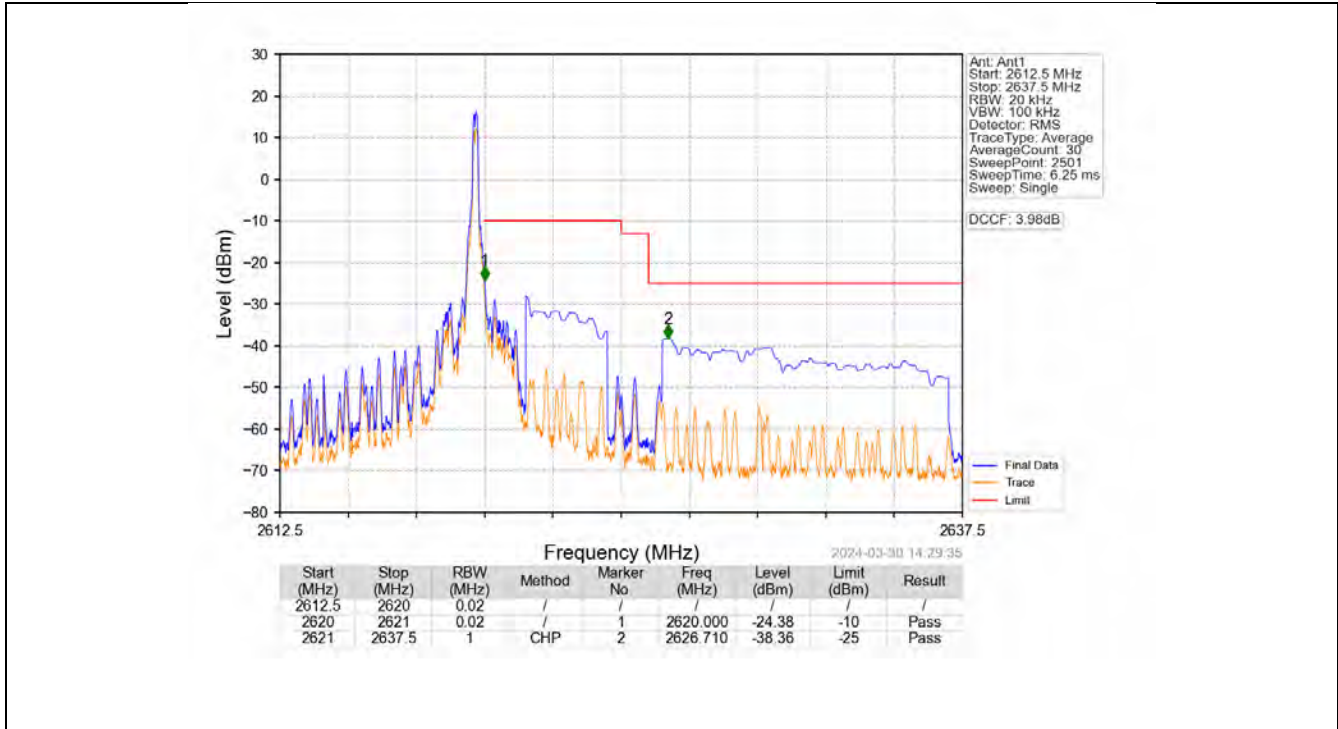


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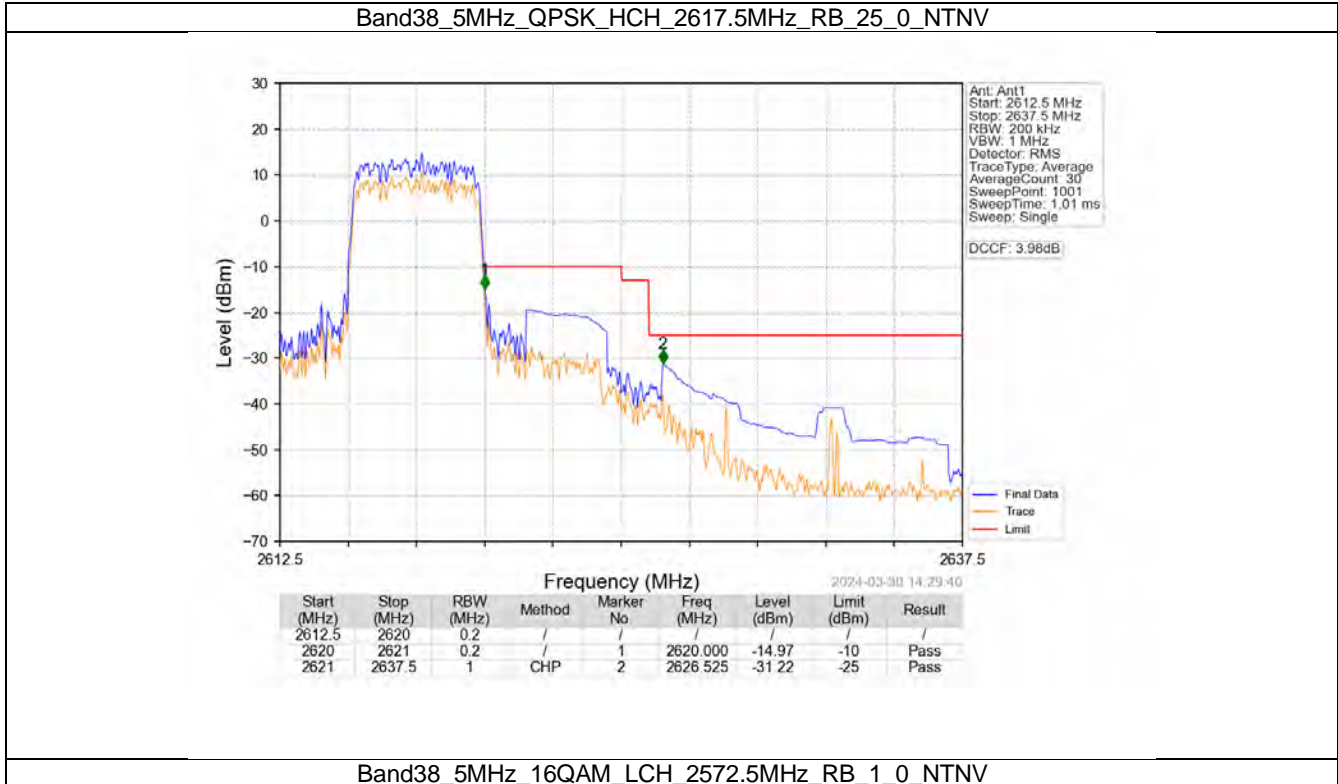


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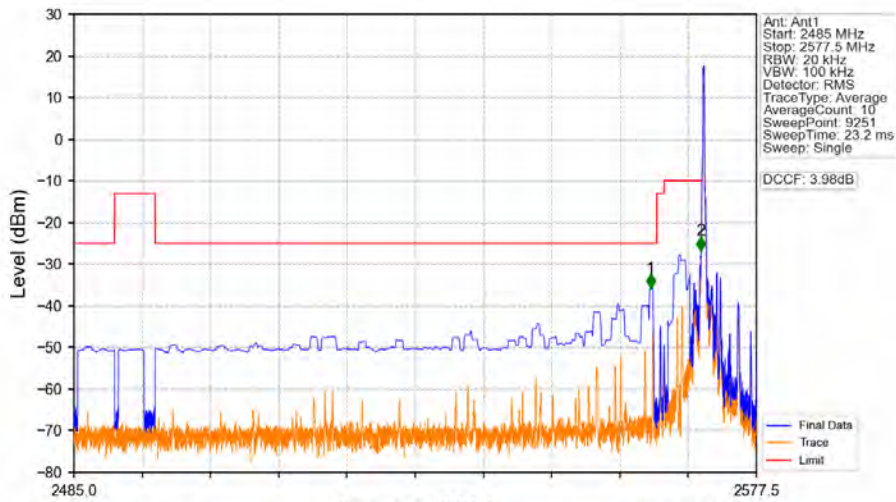


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.140	-35.82	-25	Pass
2569	2570	0.02	/	2	2570.000	-26.76	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



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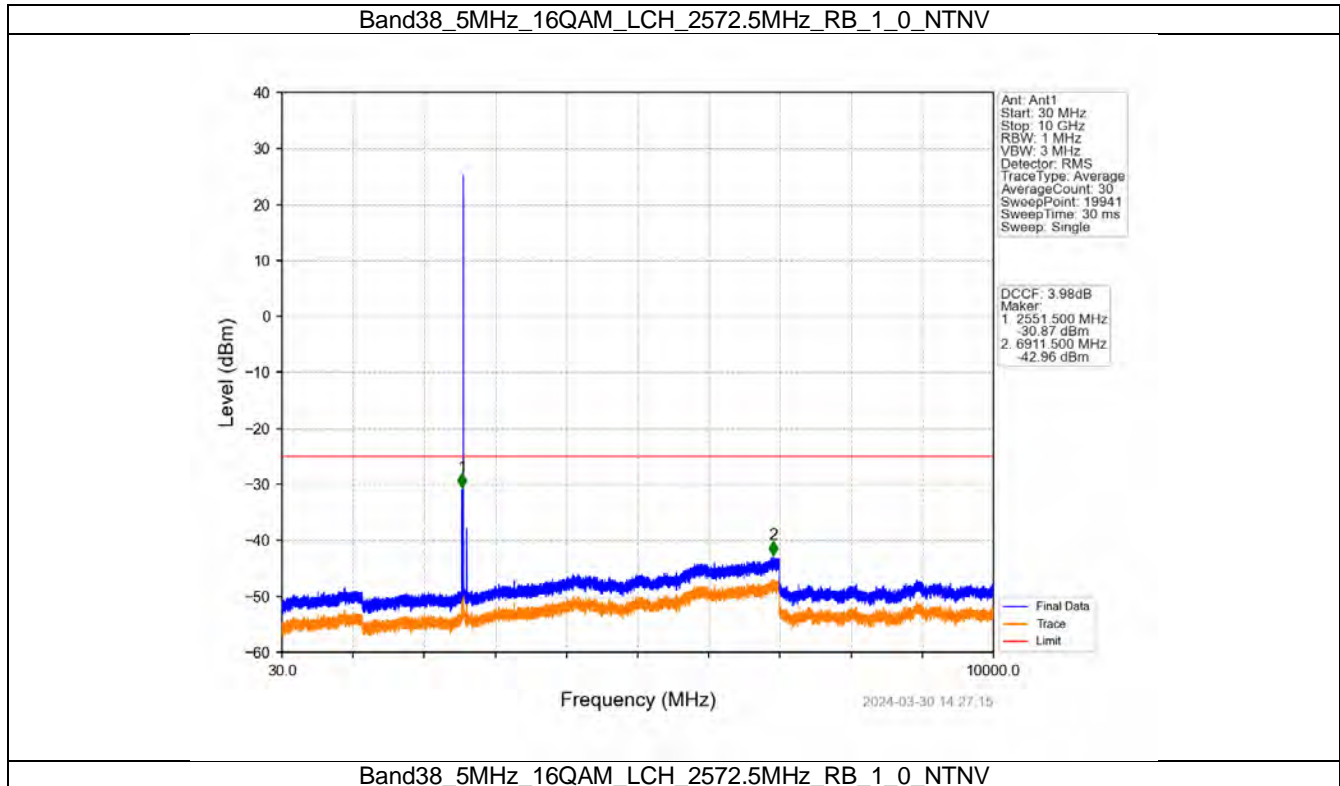


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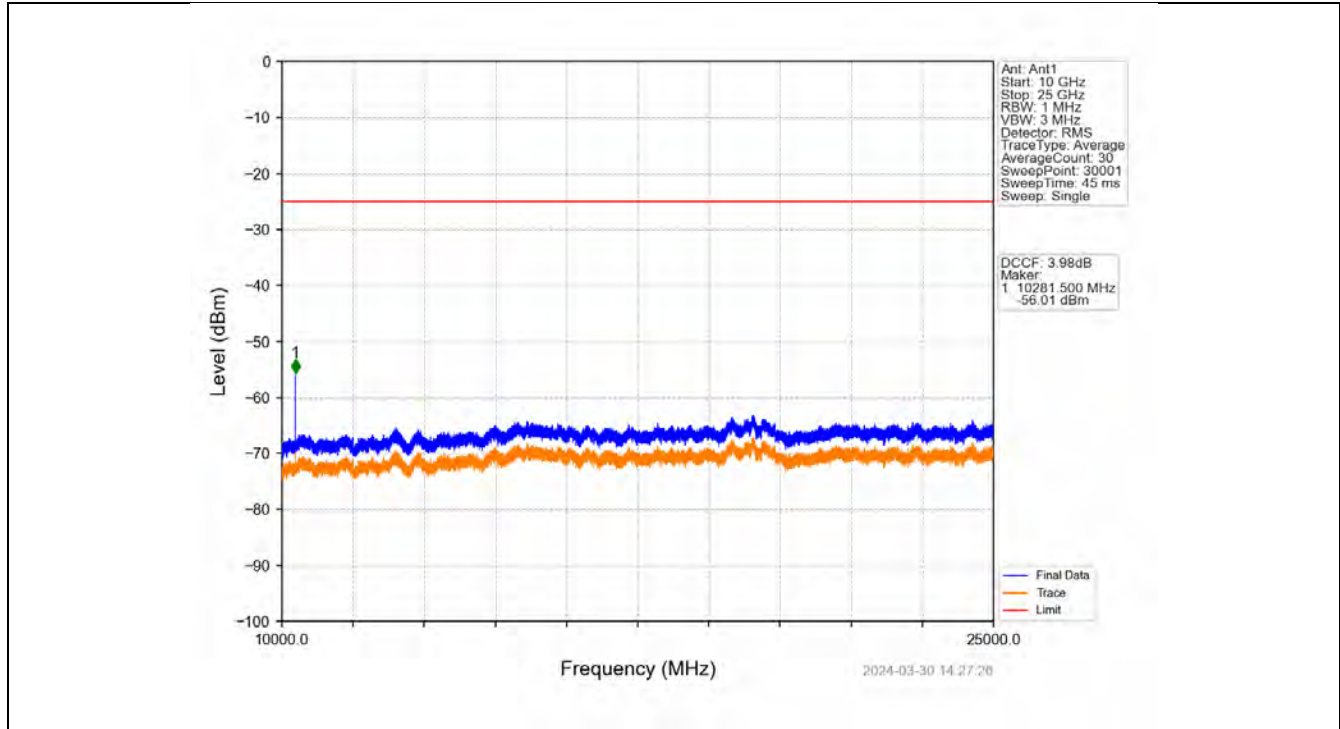


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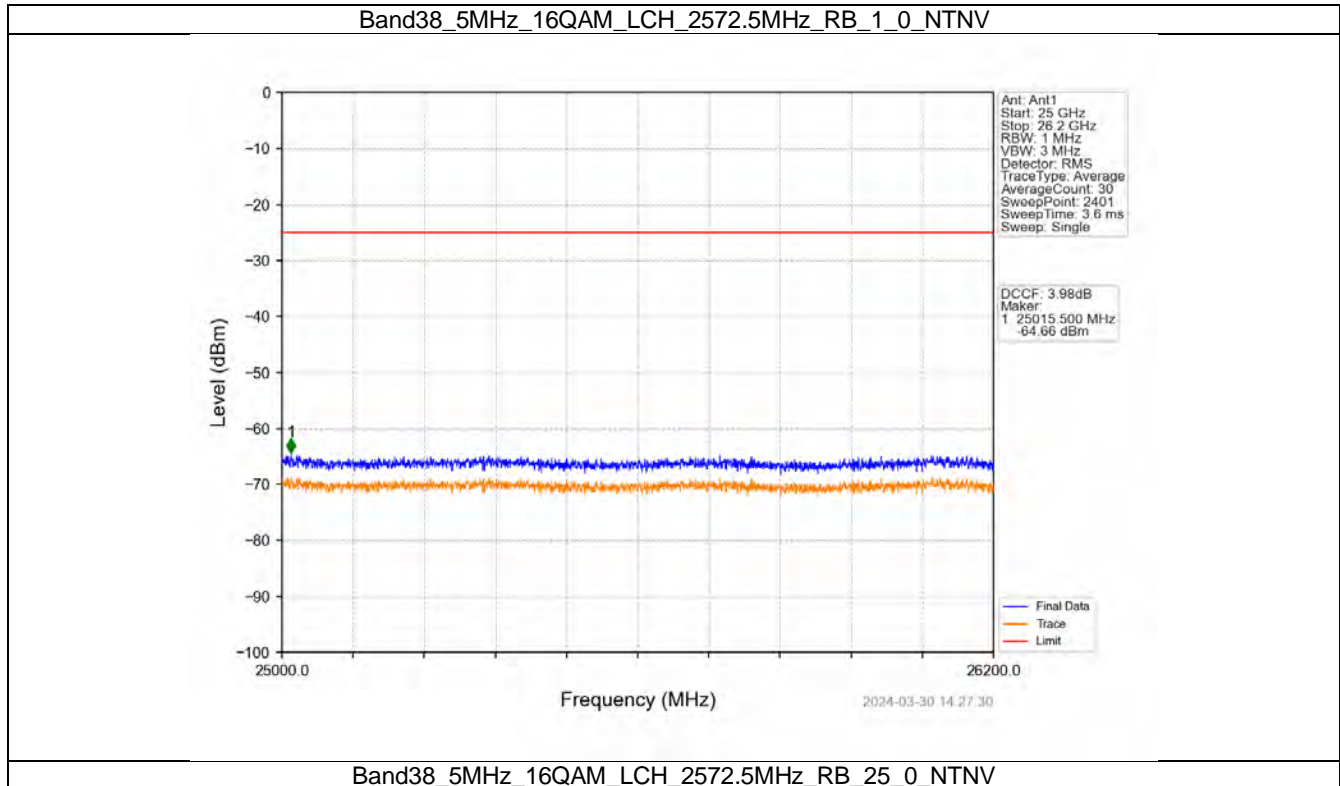


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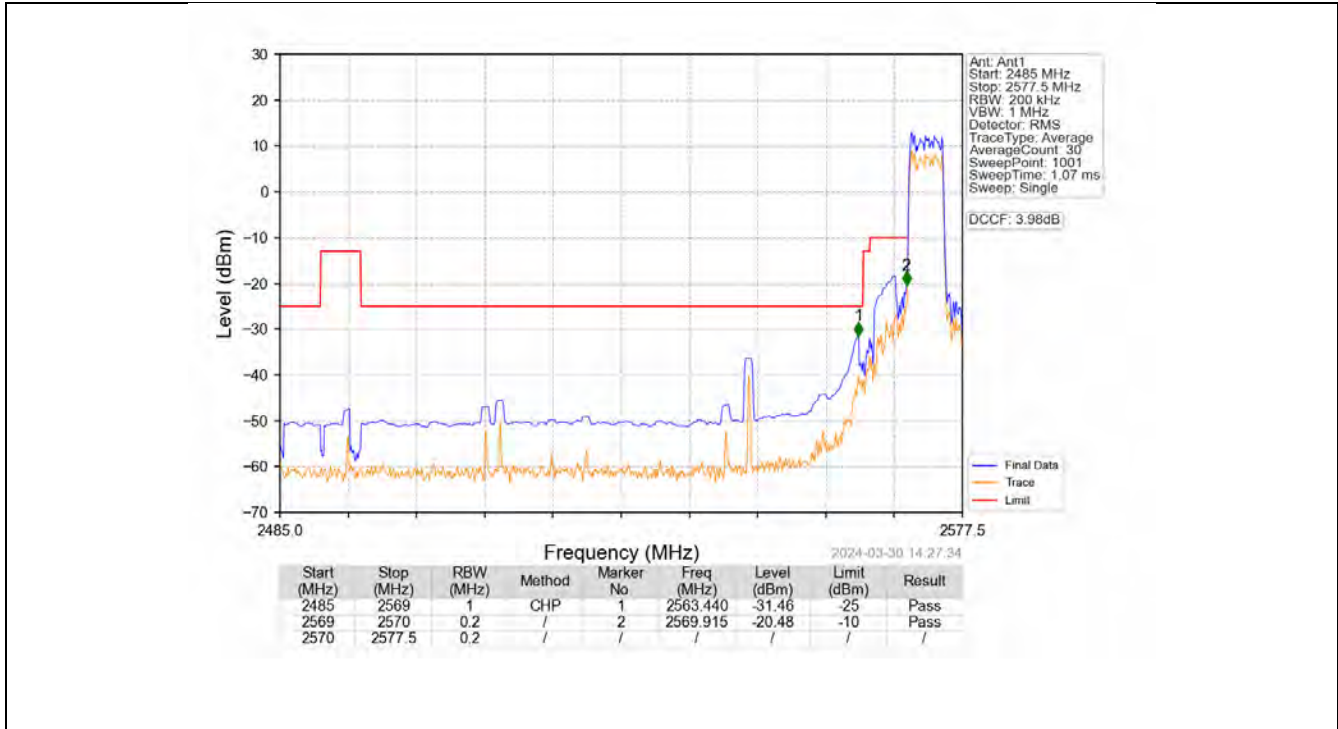


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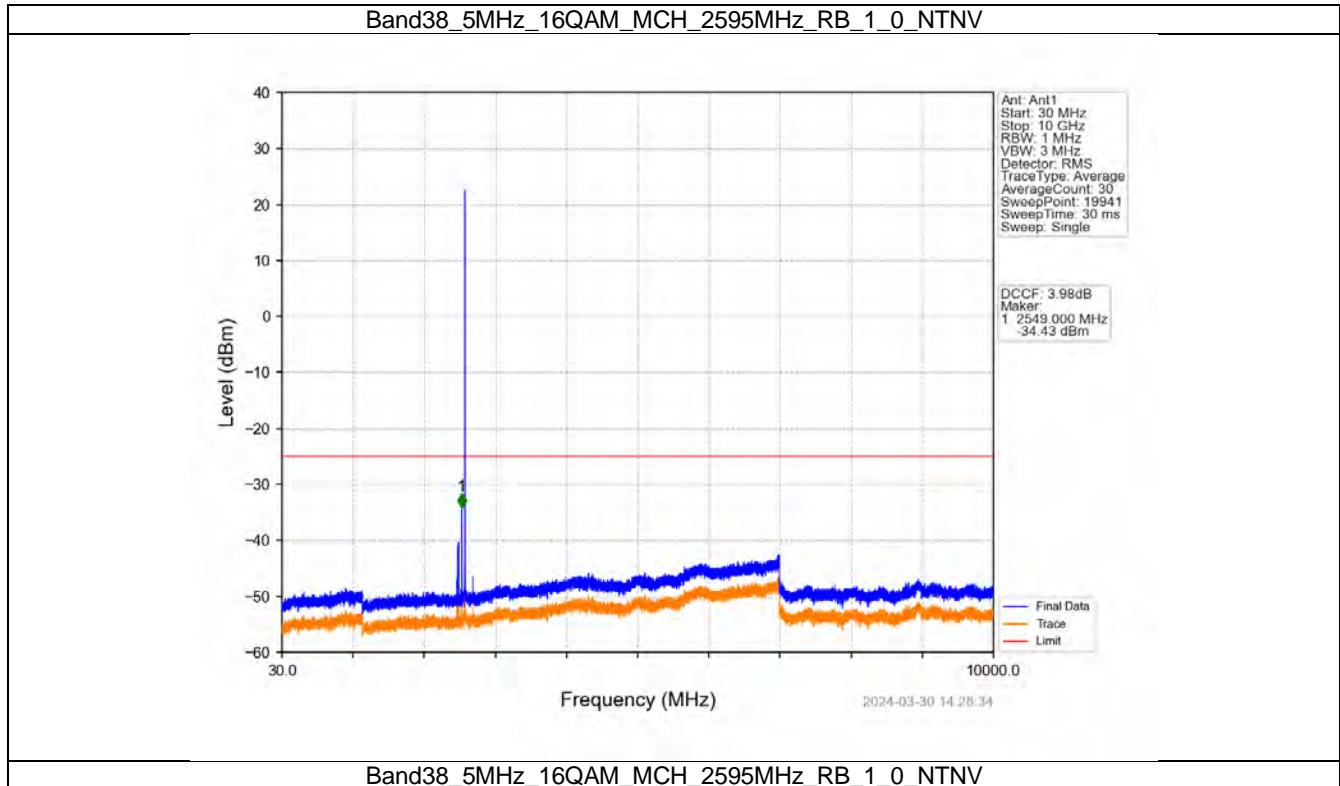


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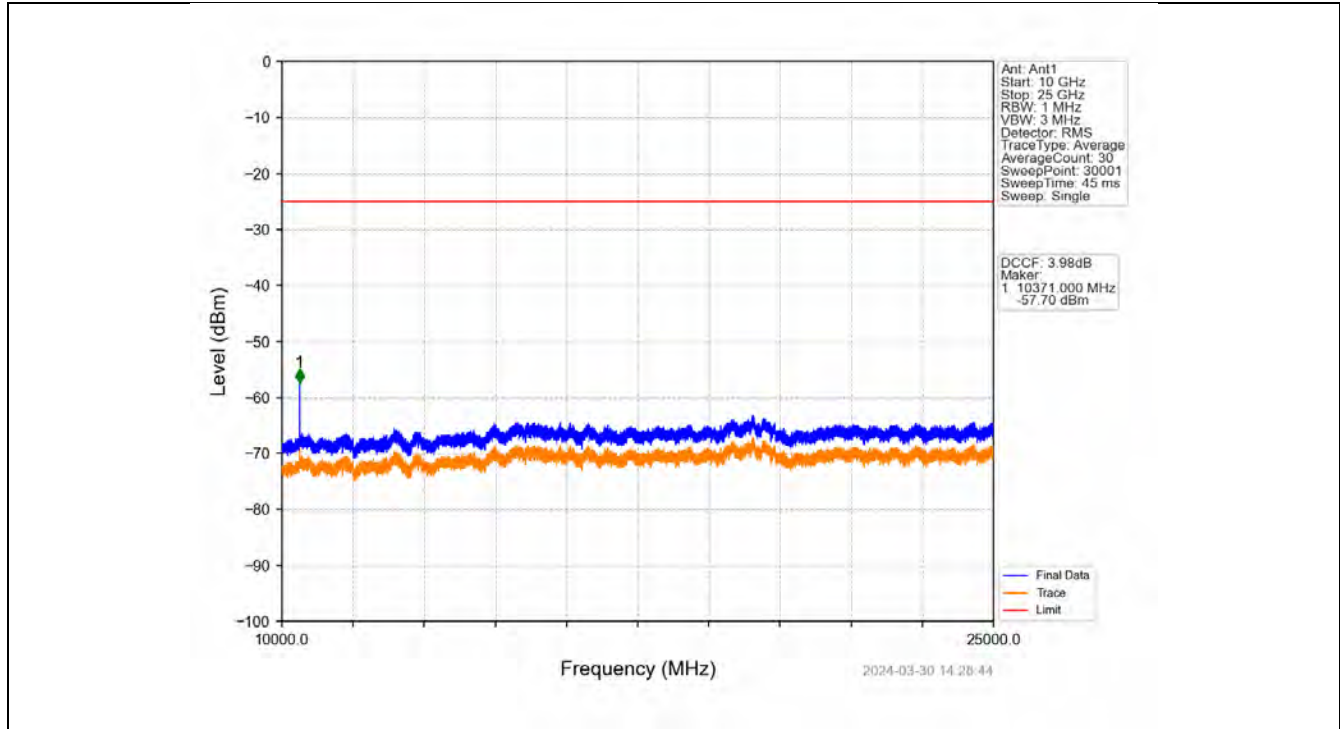


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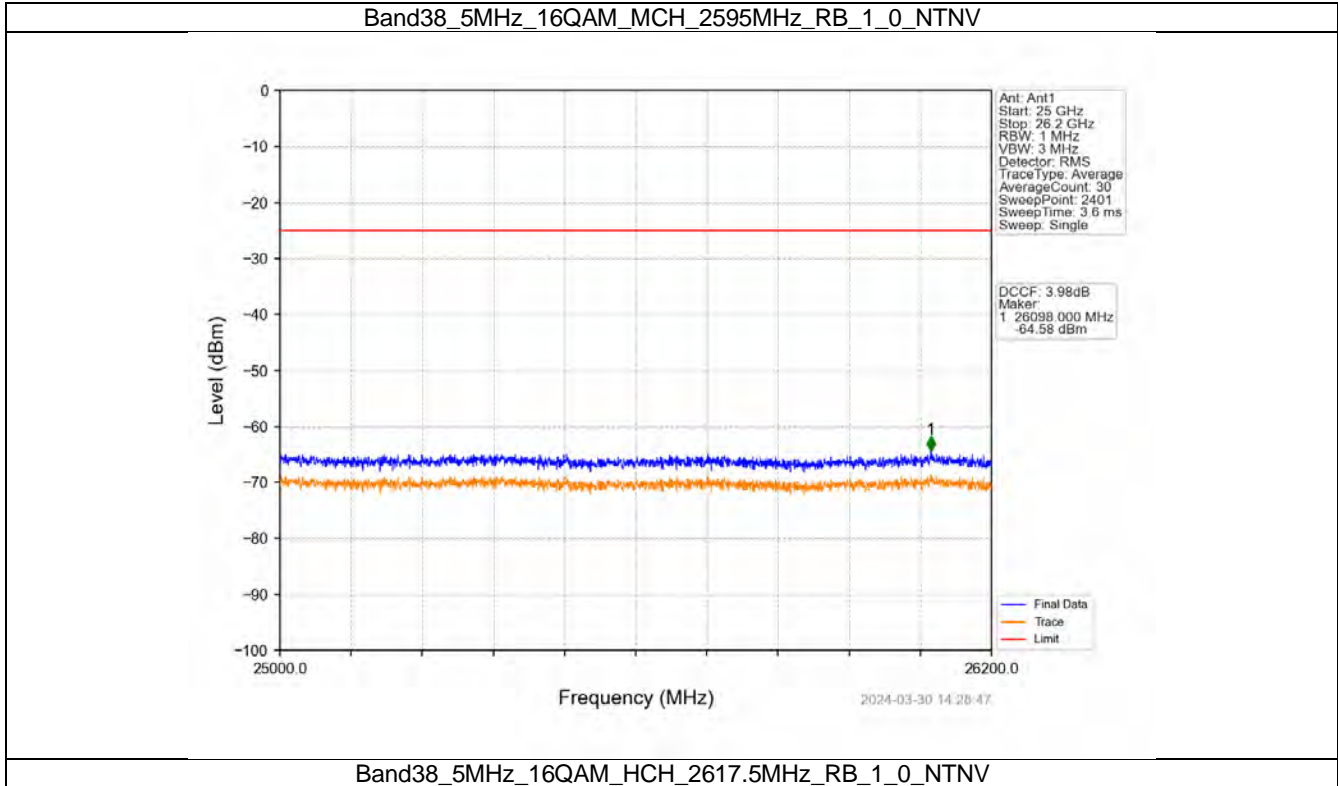


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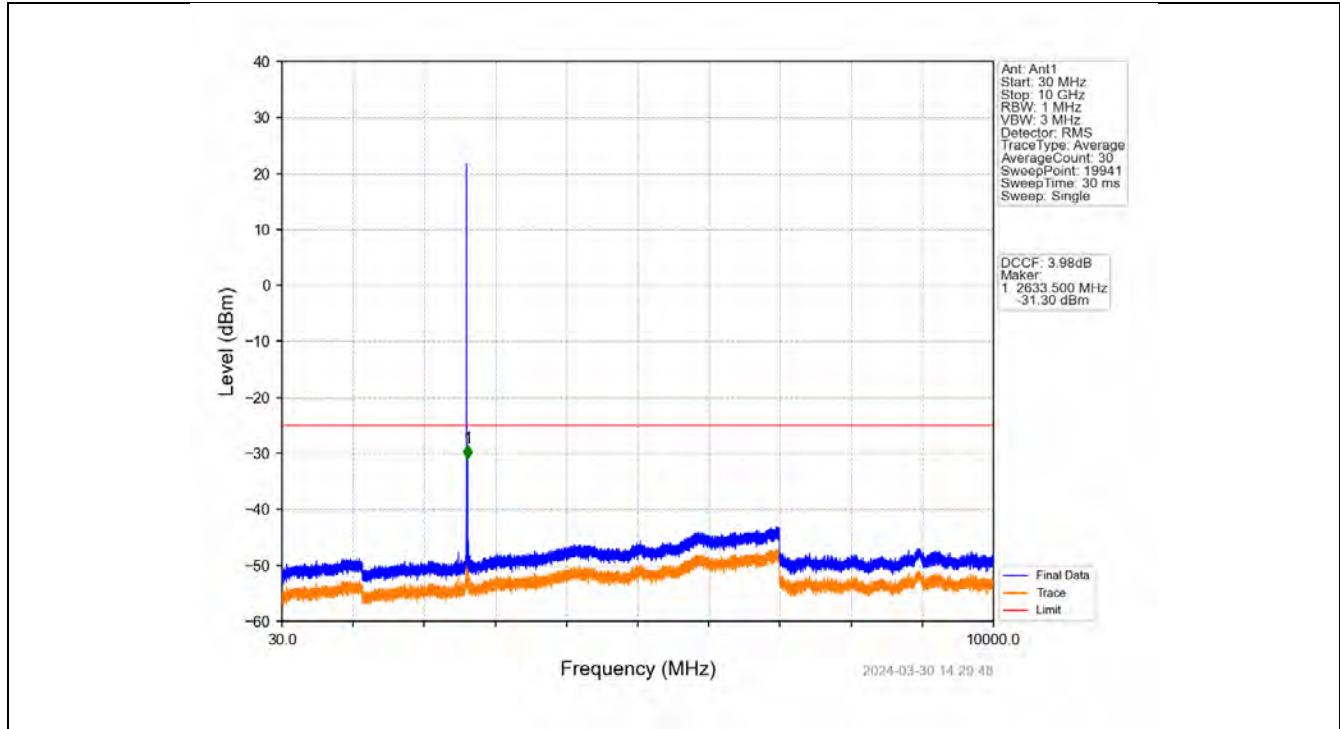


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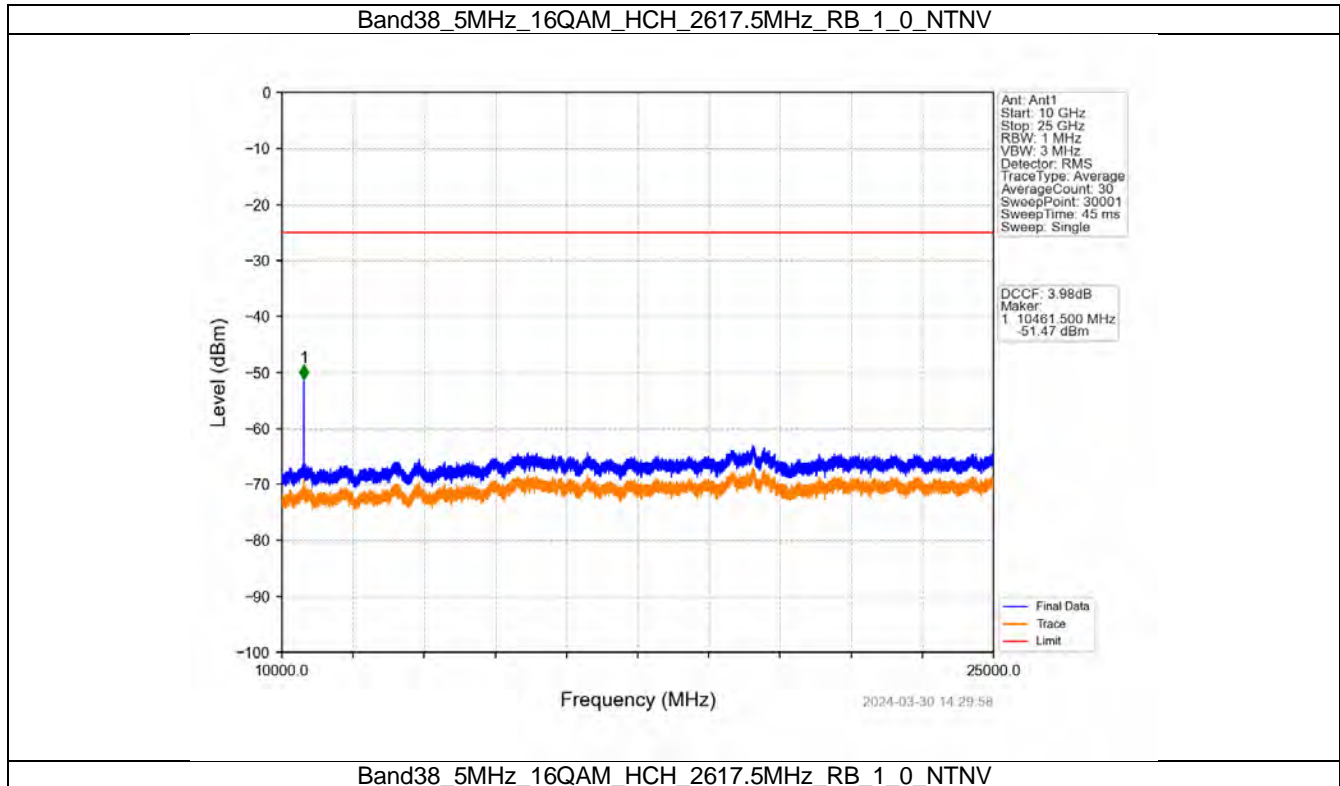


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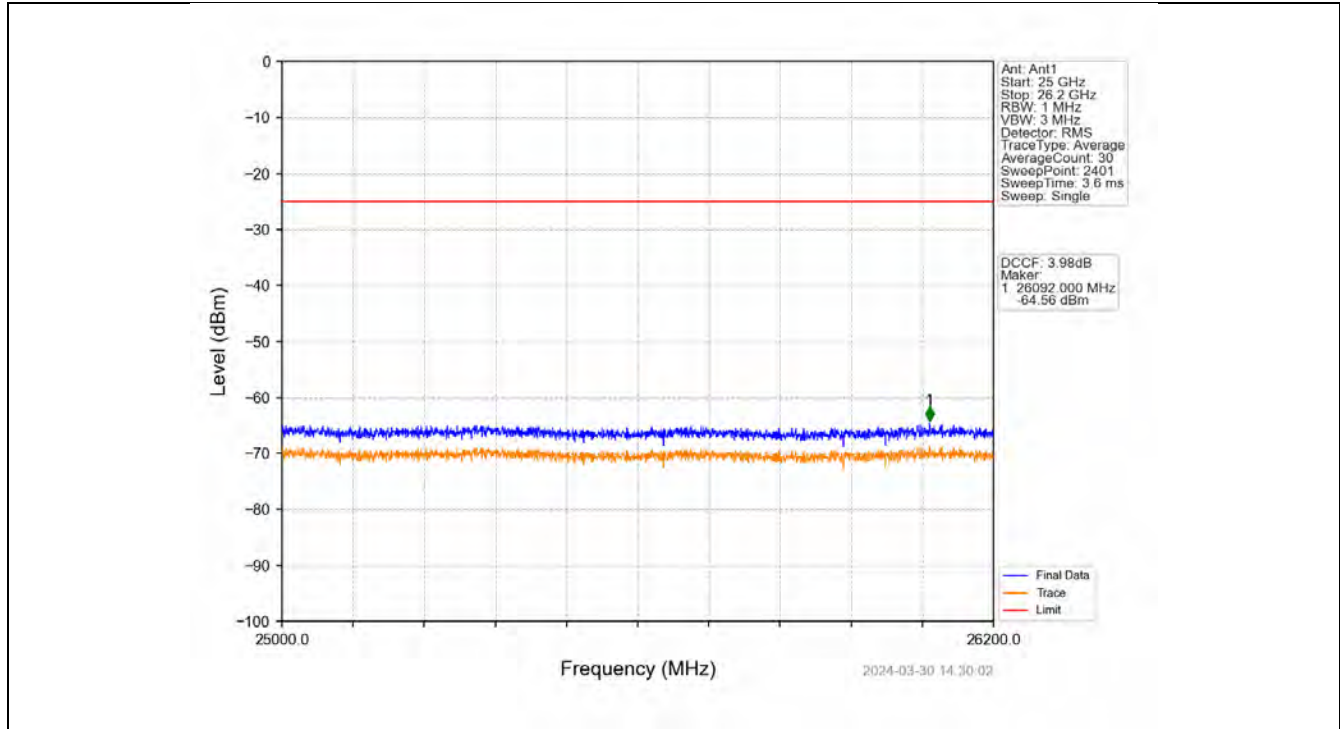


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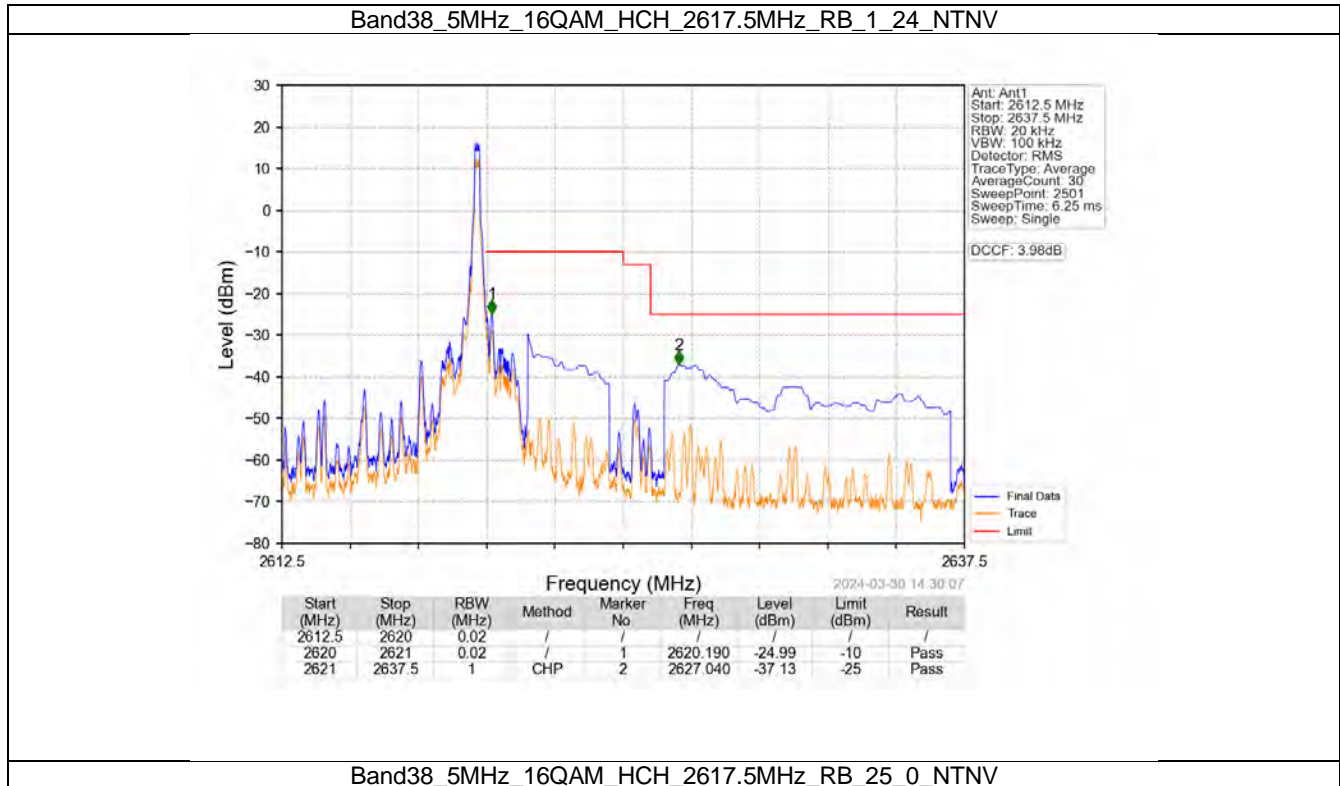


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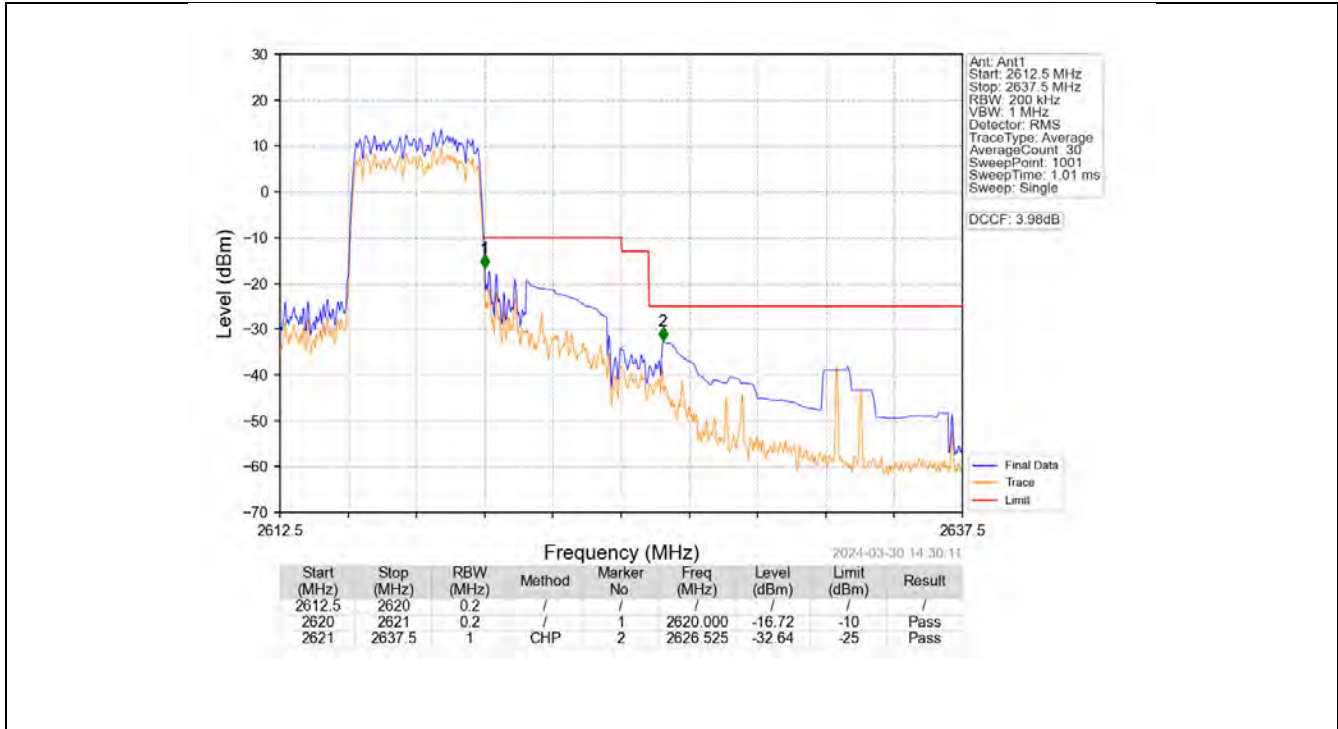


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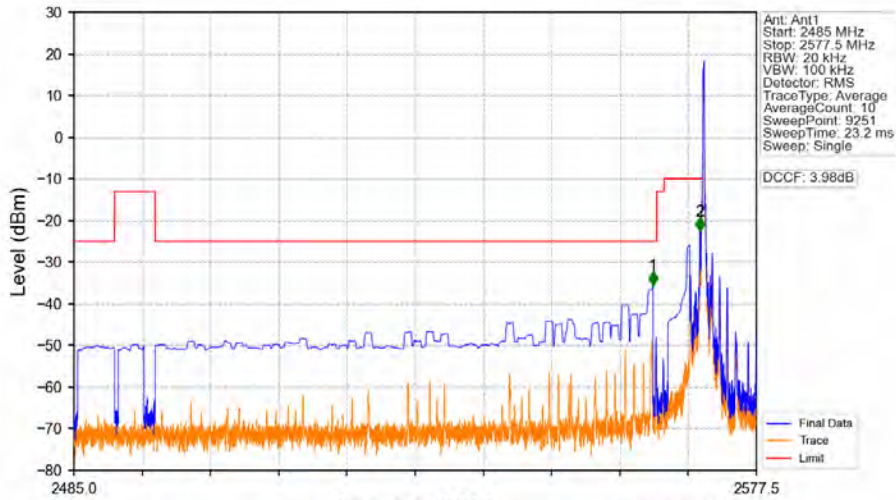
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Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
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2569	2570	0.02	/	2	2569.860	-22.64	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/

Band38_5MHz_64QAM_LCH_2572.5MHz_RB_1_0_NTNV



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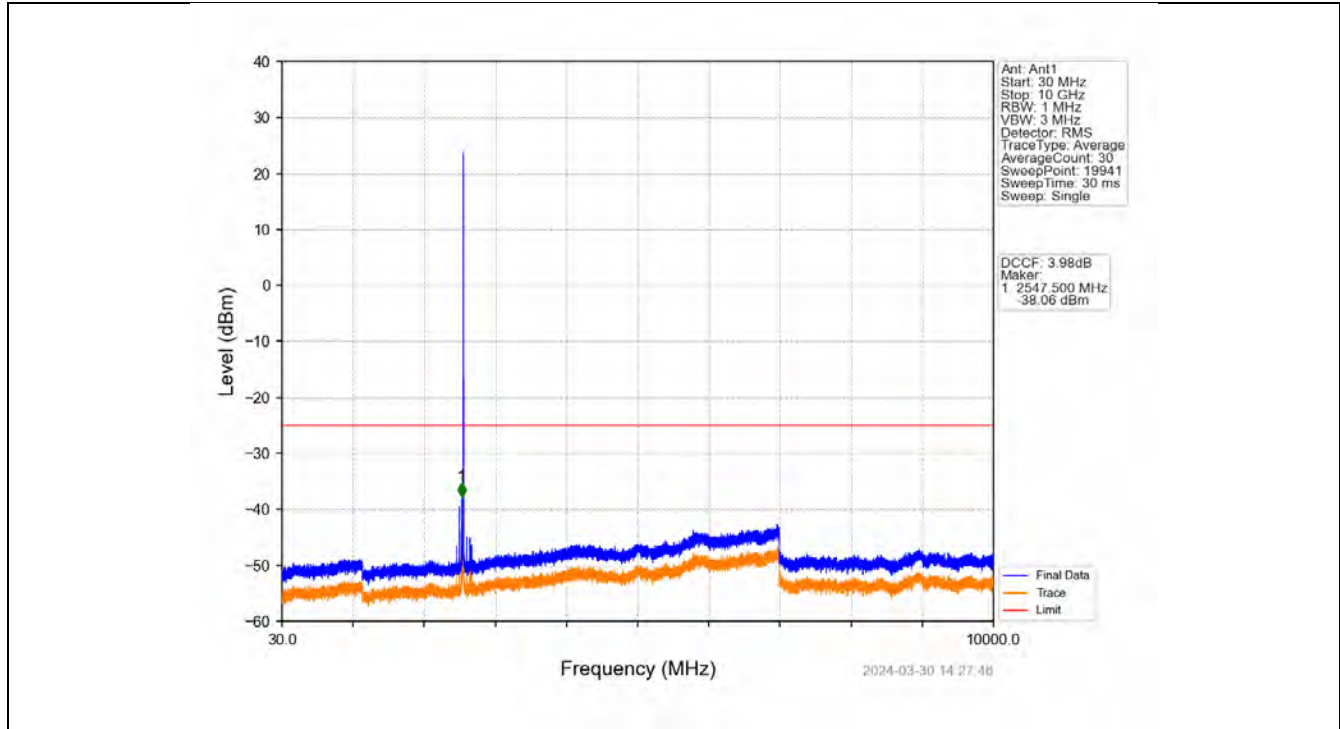


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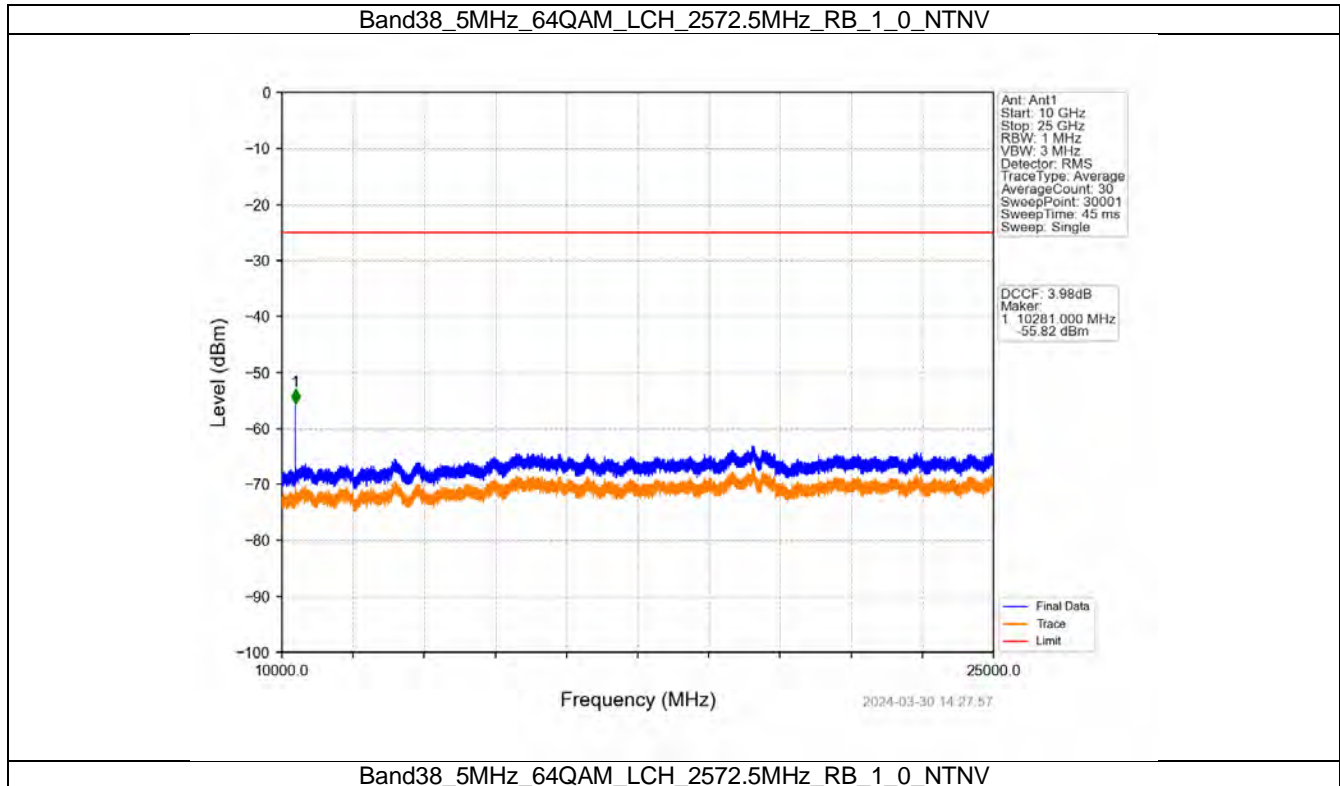


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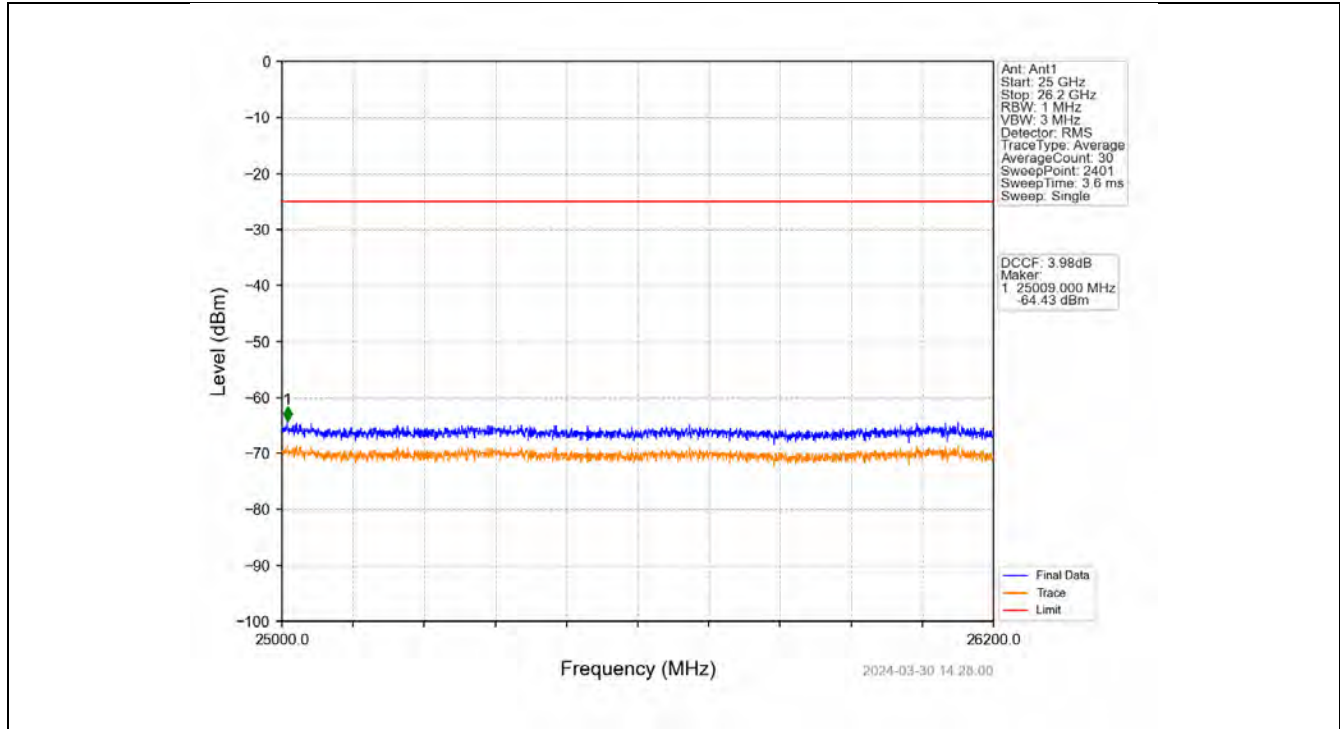


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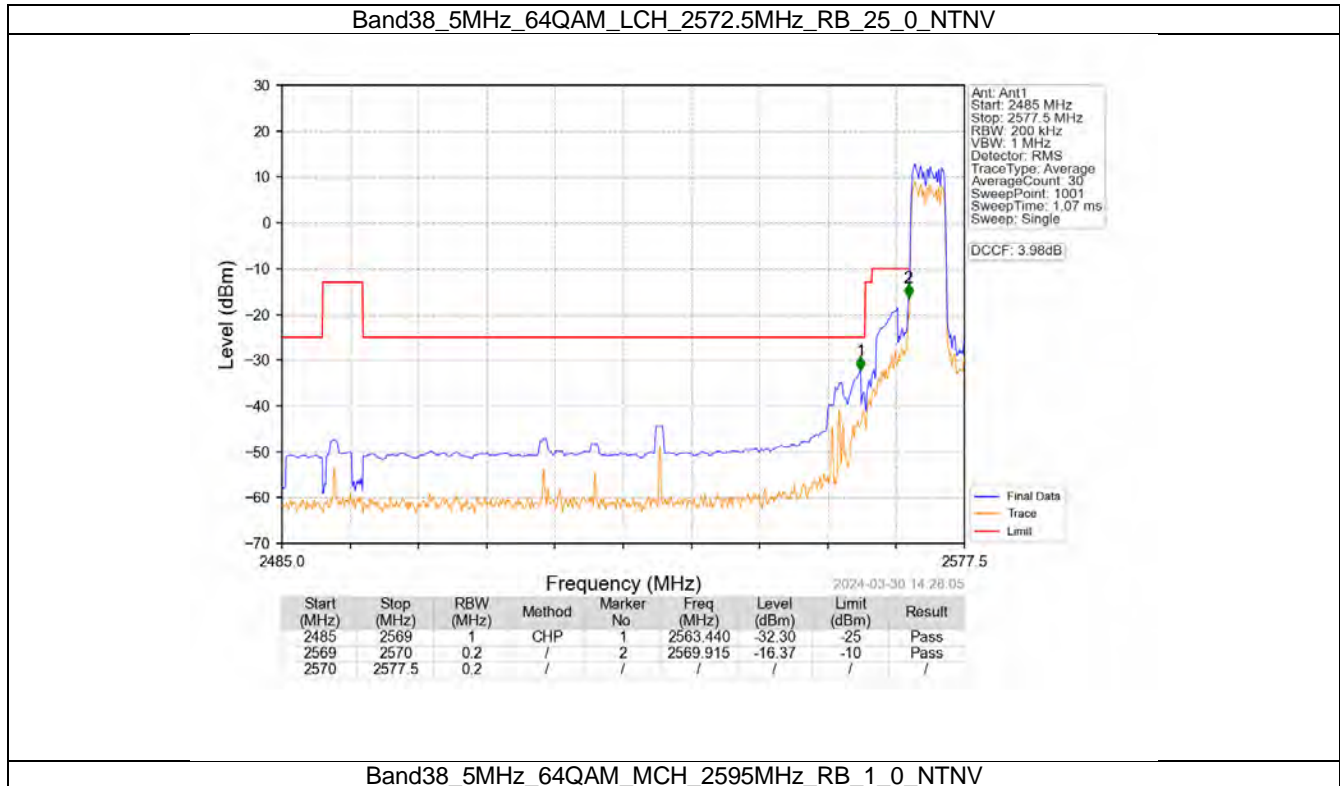


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Band38_5MHz_64QAM_MCH_2595MHz_RB_1_0_NTNV



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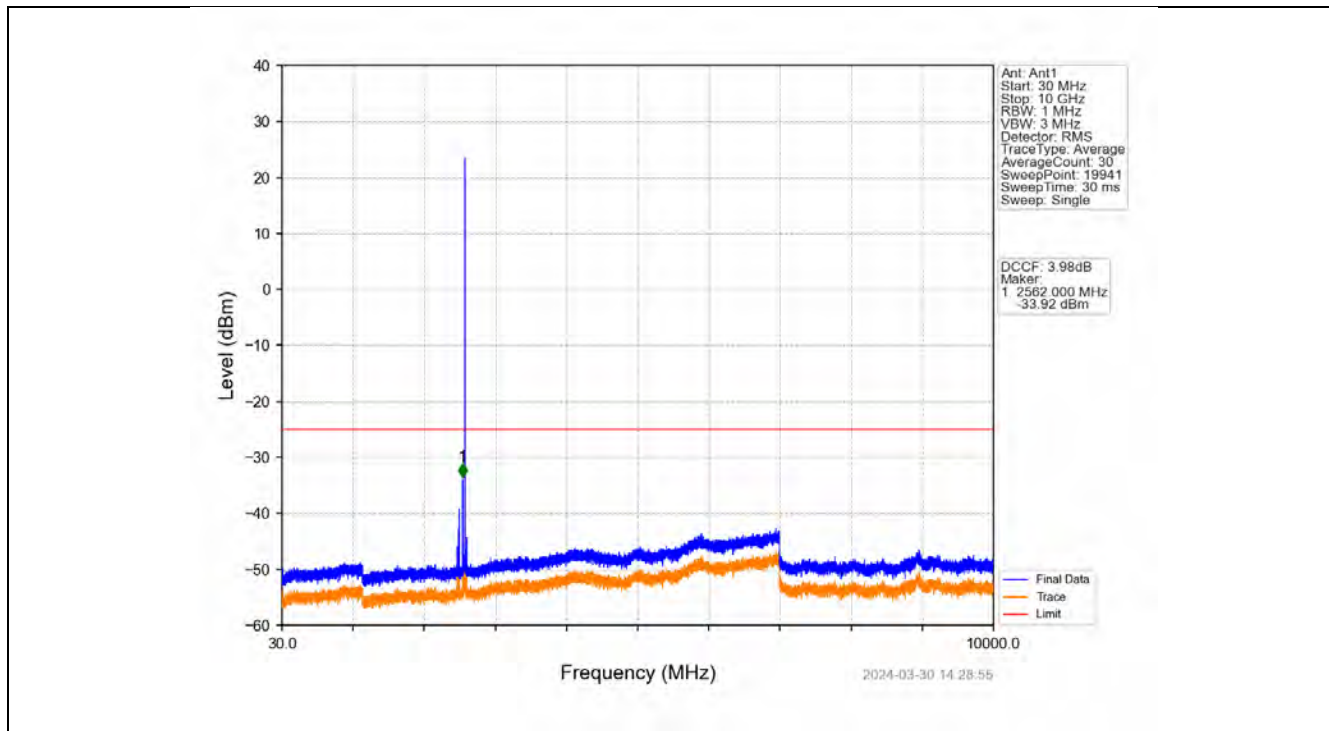
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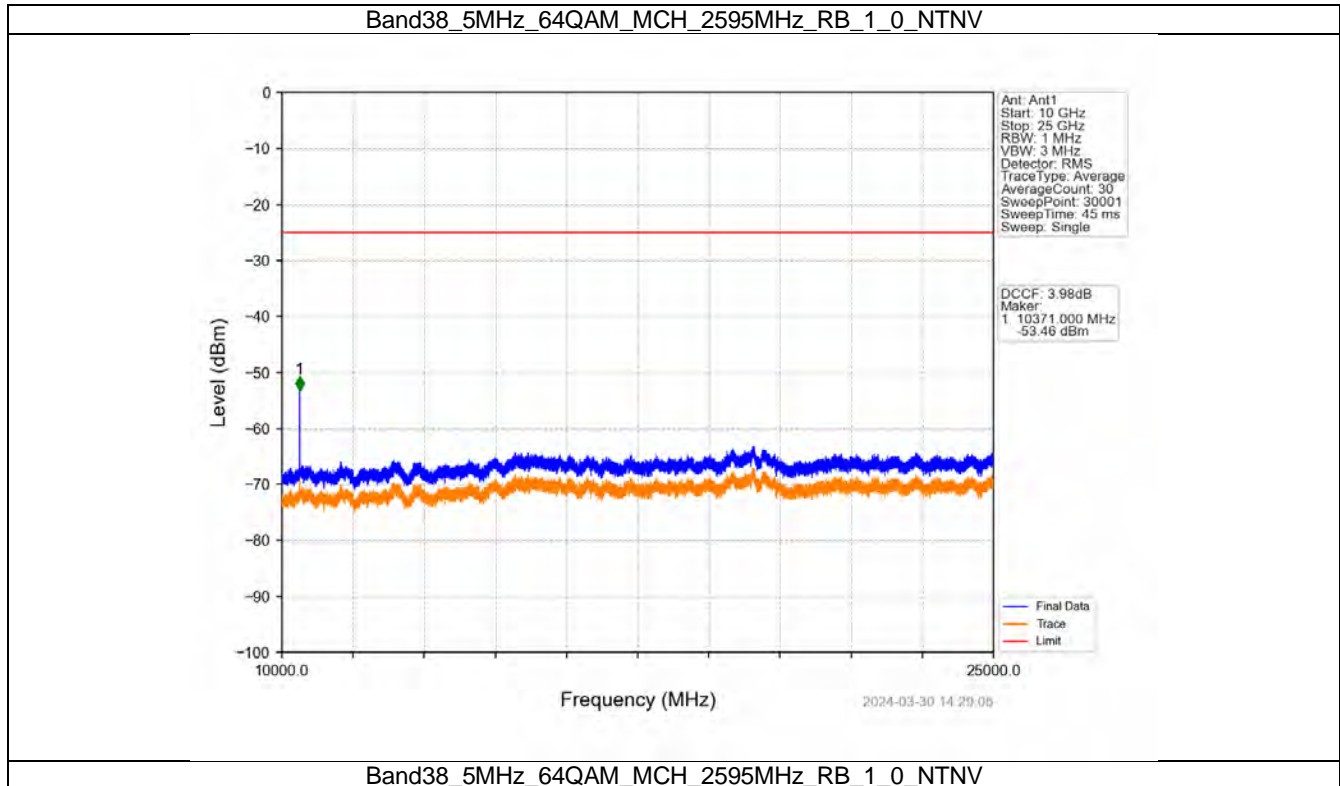


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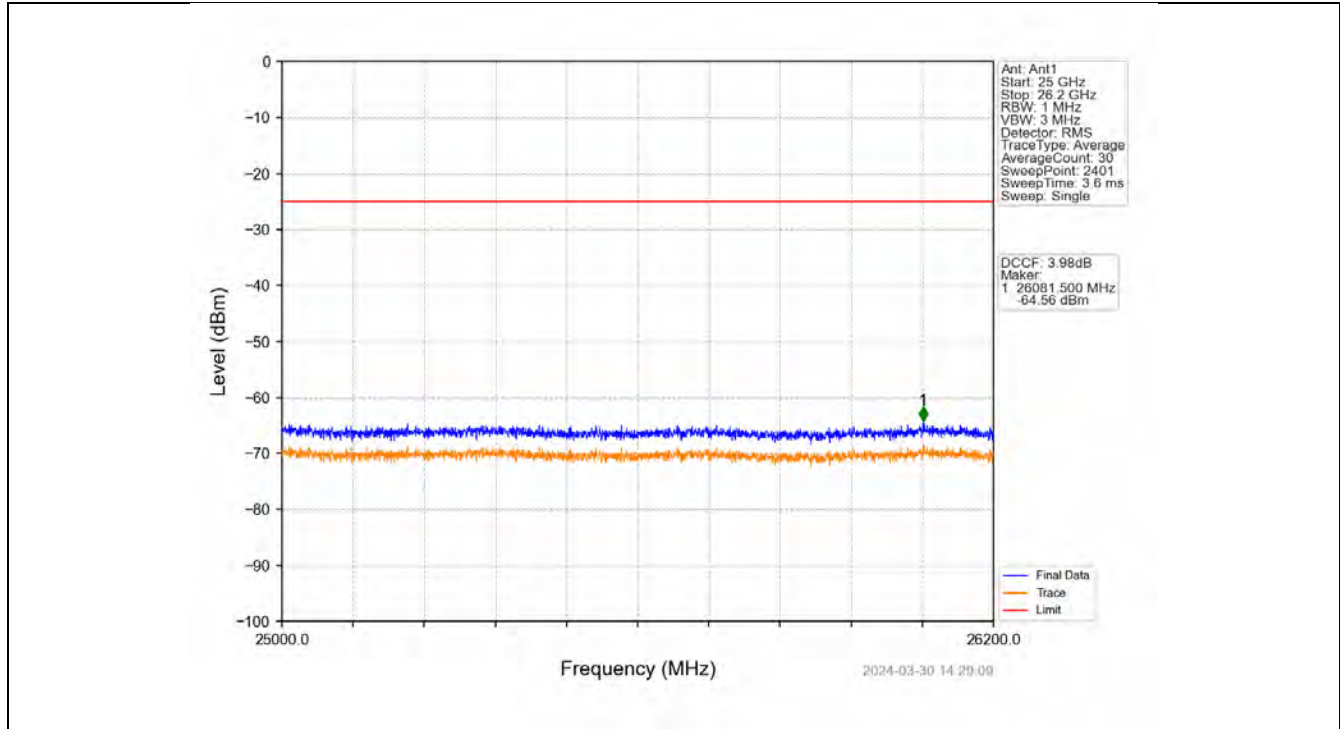


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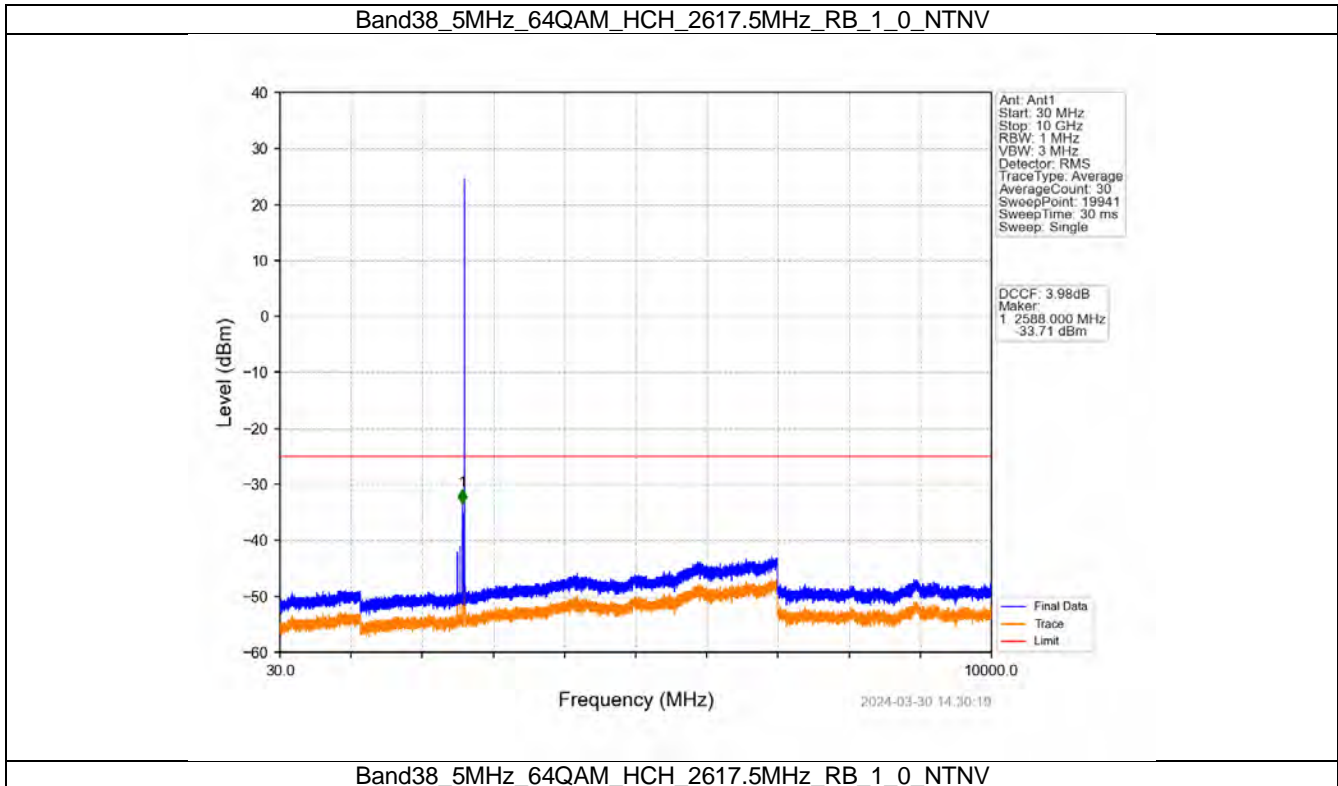


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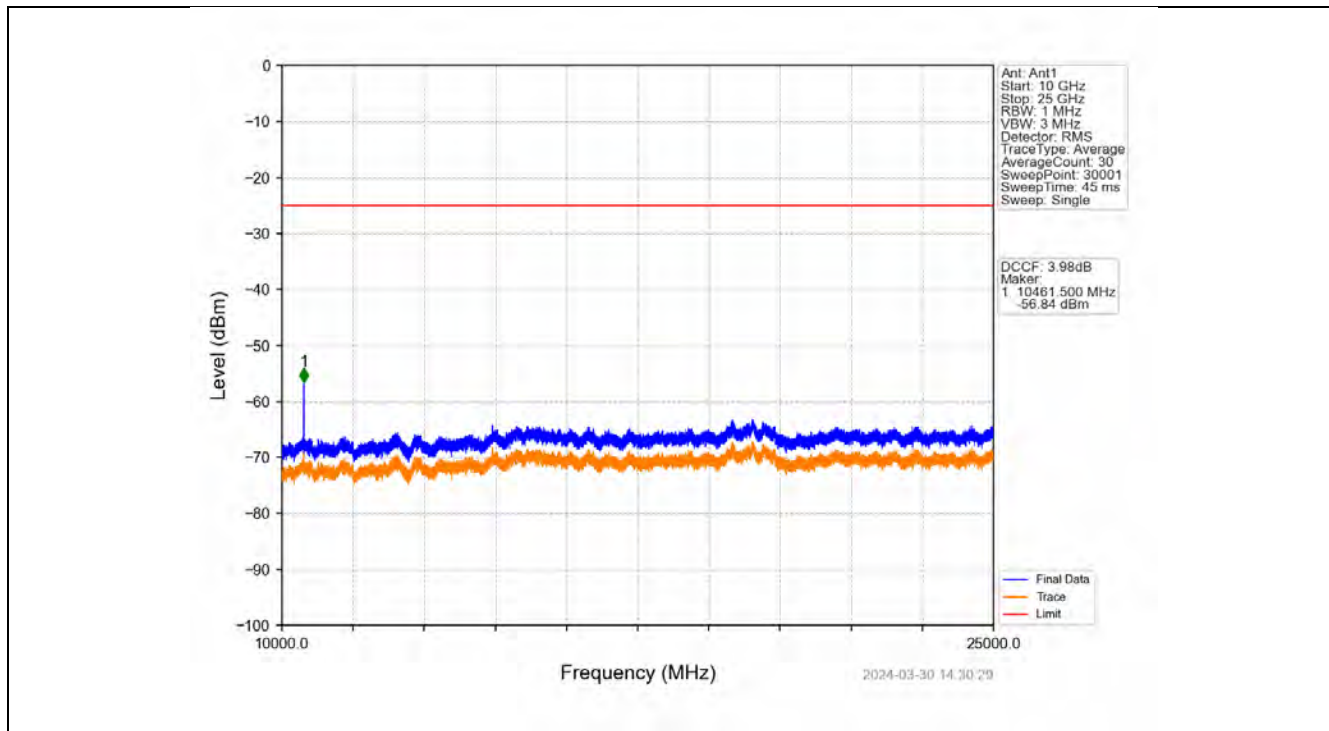
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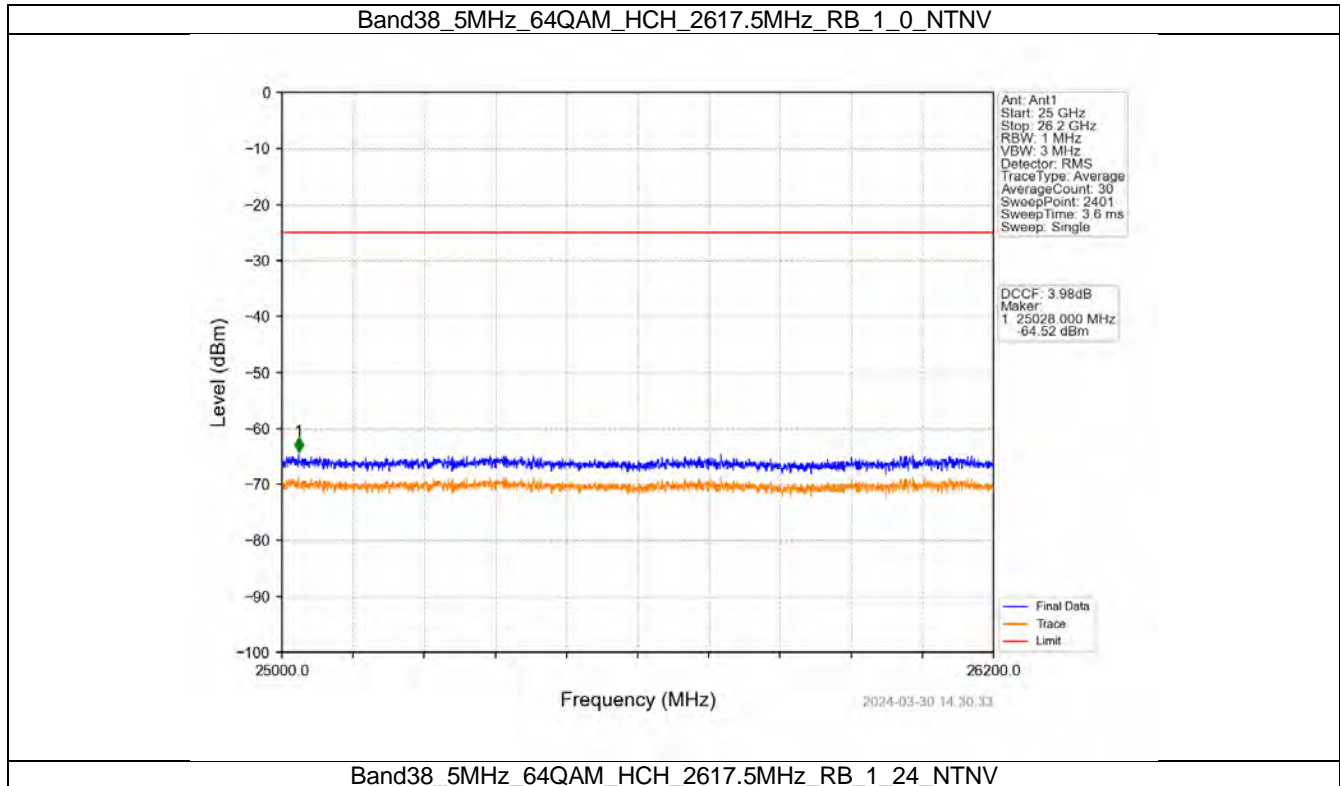


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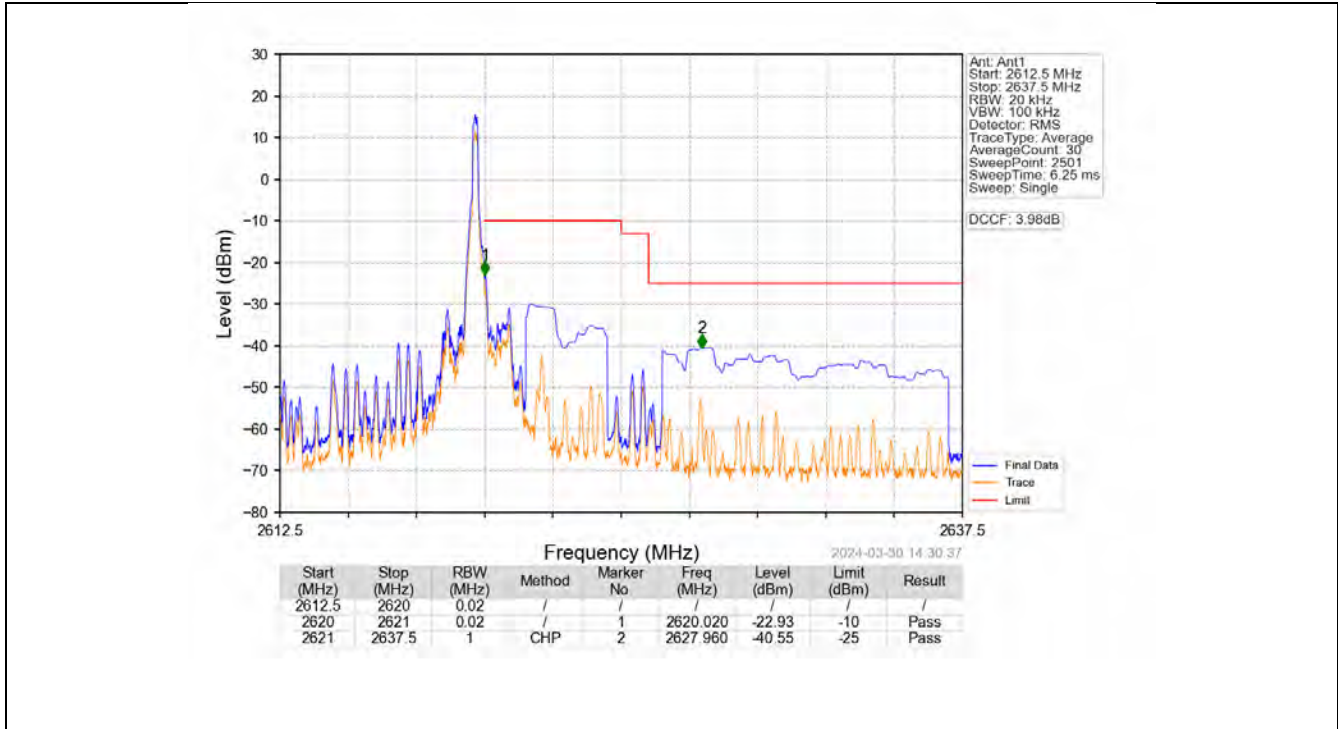


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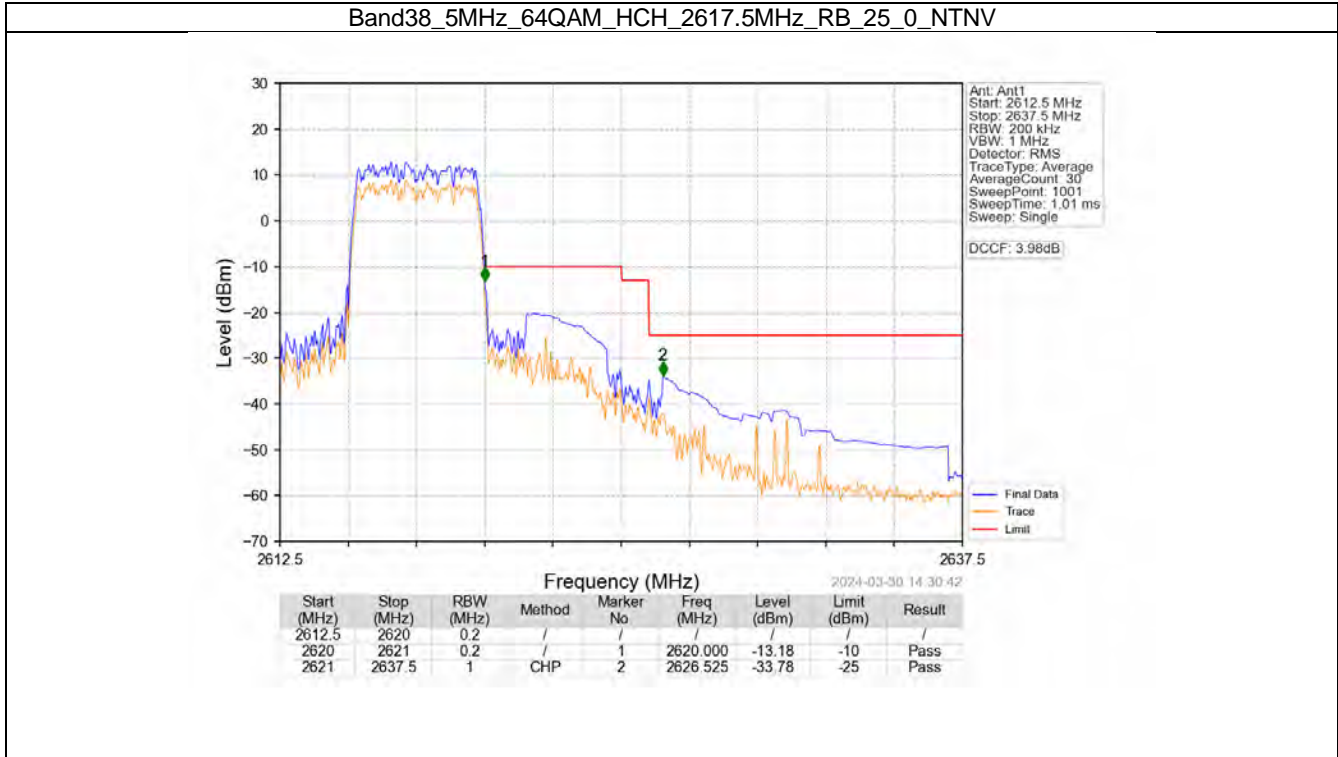


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5.2 B38_10MHz

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
			49	Refer To Test Graph		Pass
		50	0	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
			49	Refer To Test Graph		Pass
		50	0	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
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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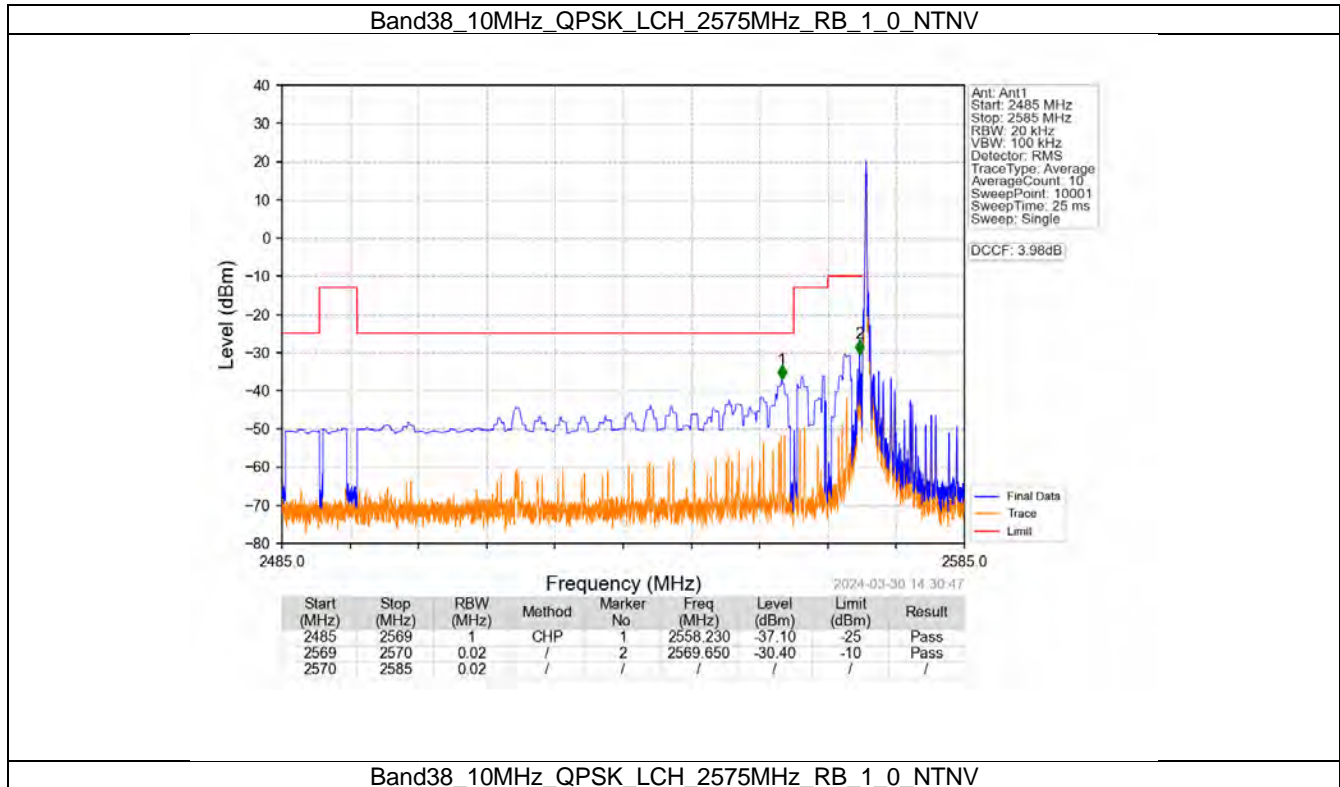
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5.2.2 Test Graph



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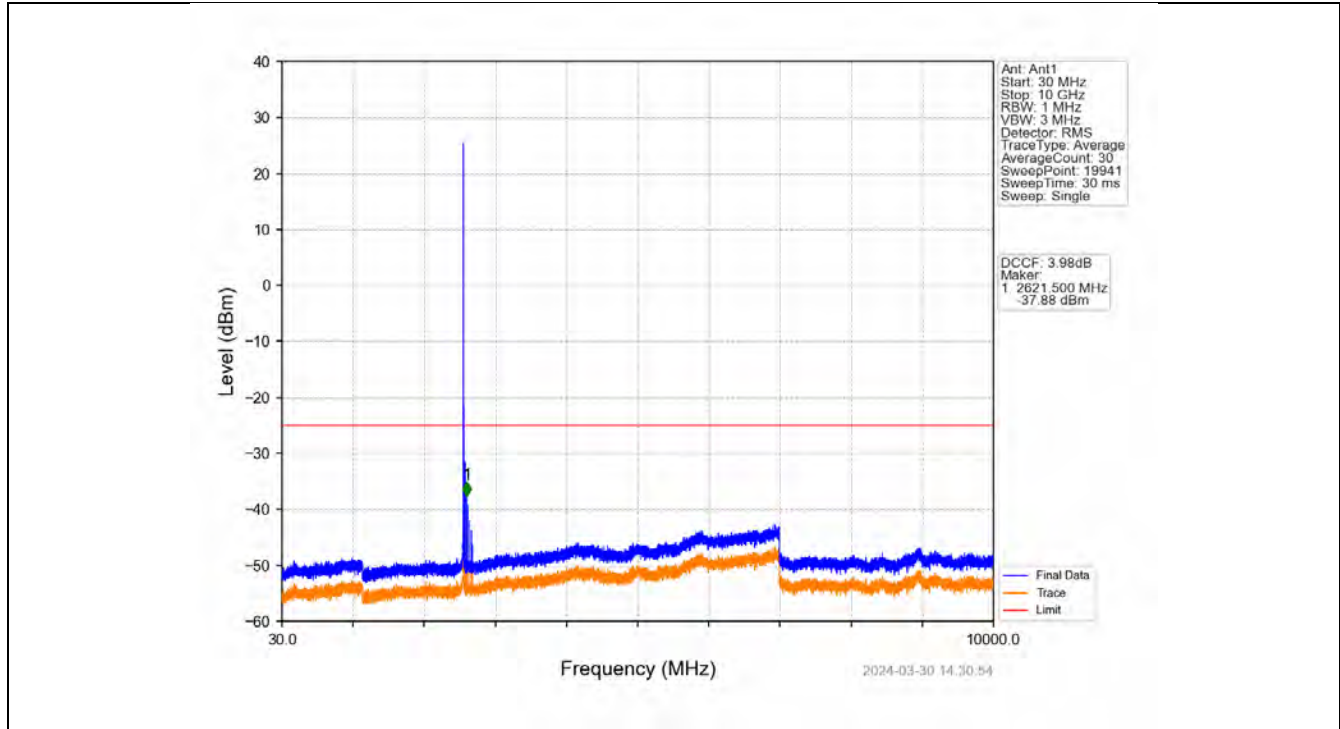


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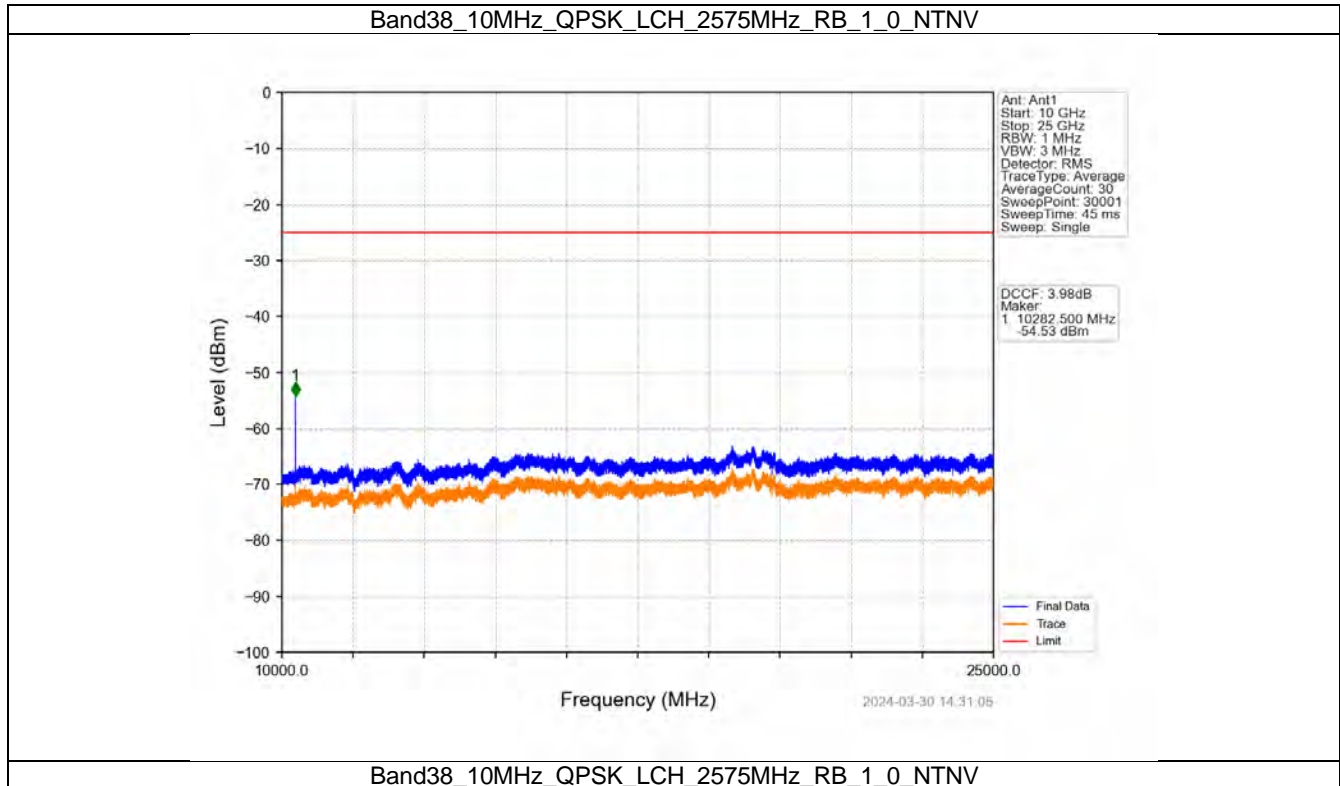


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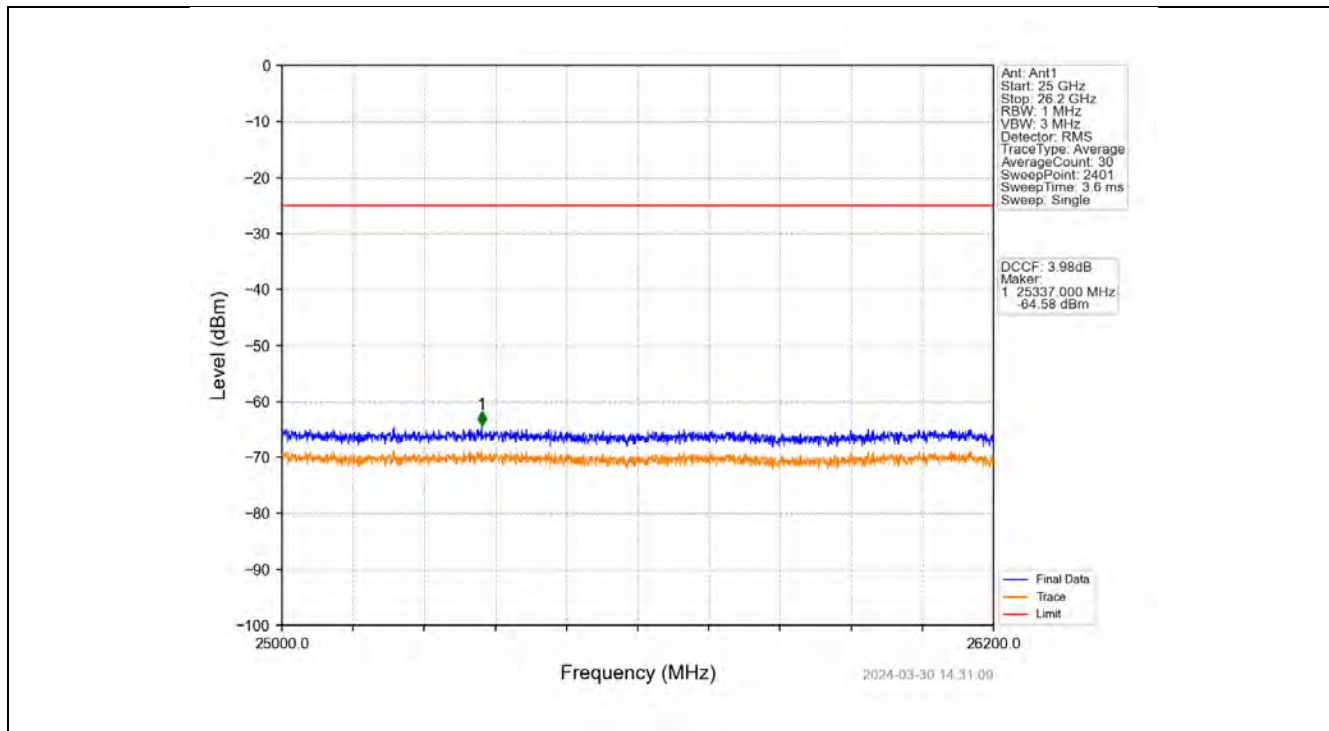
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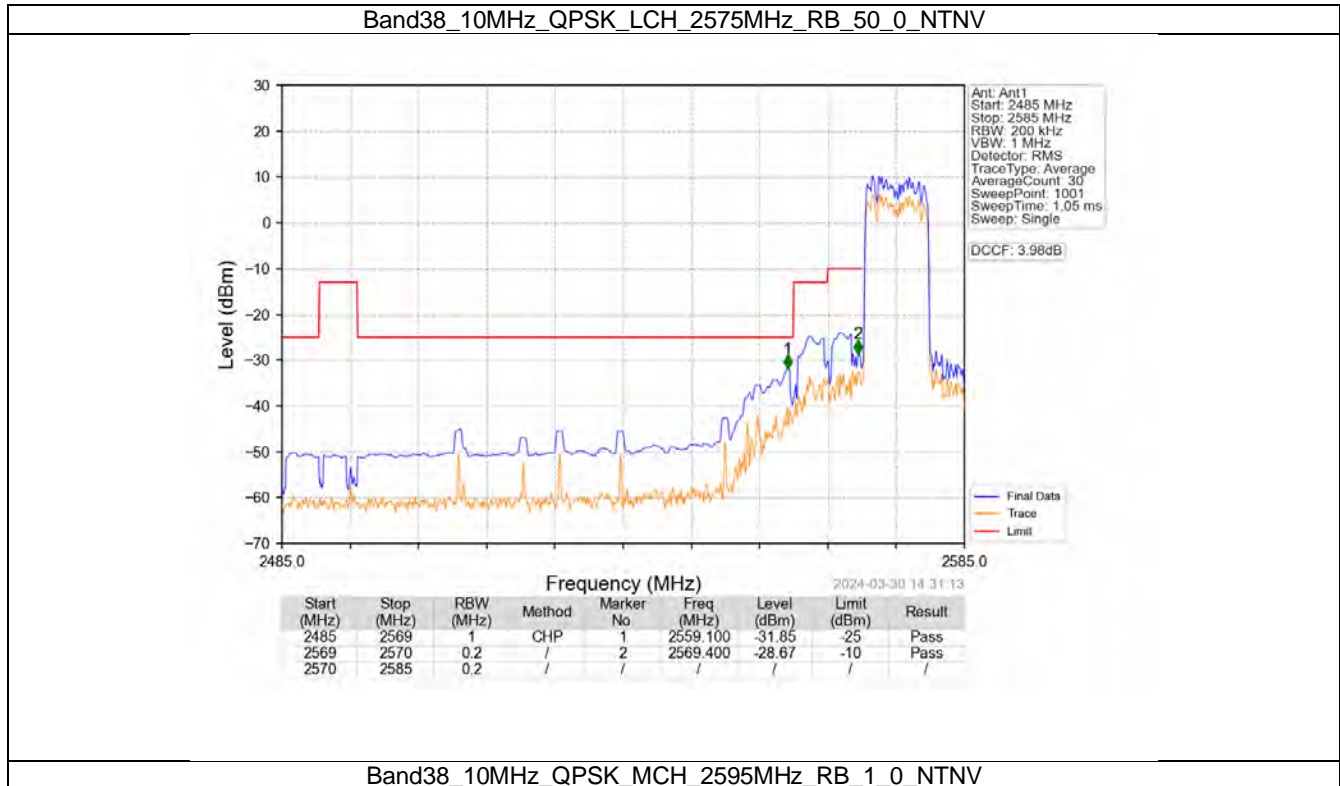


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Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



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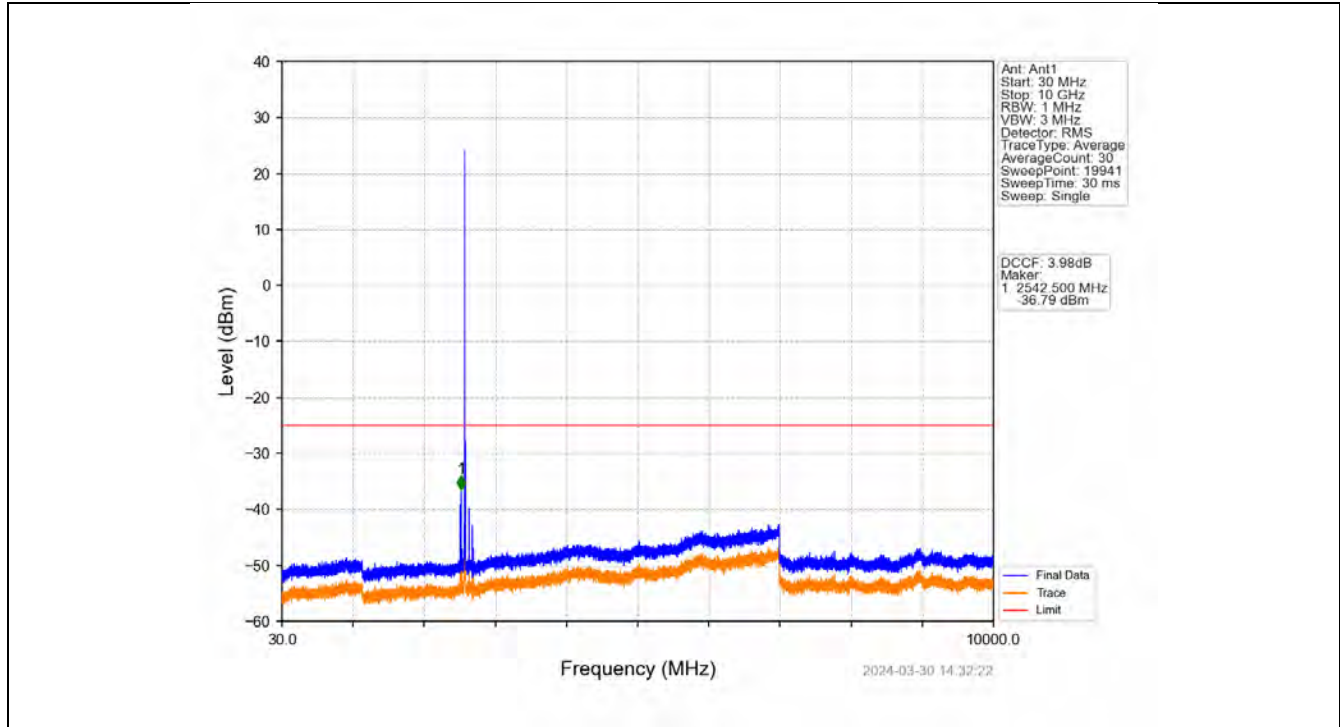


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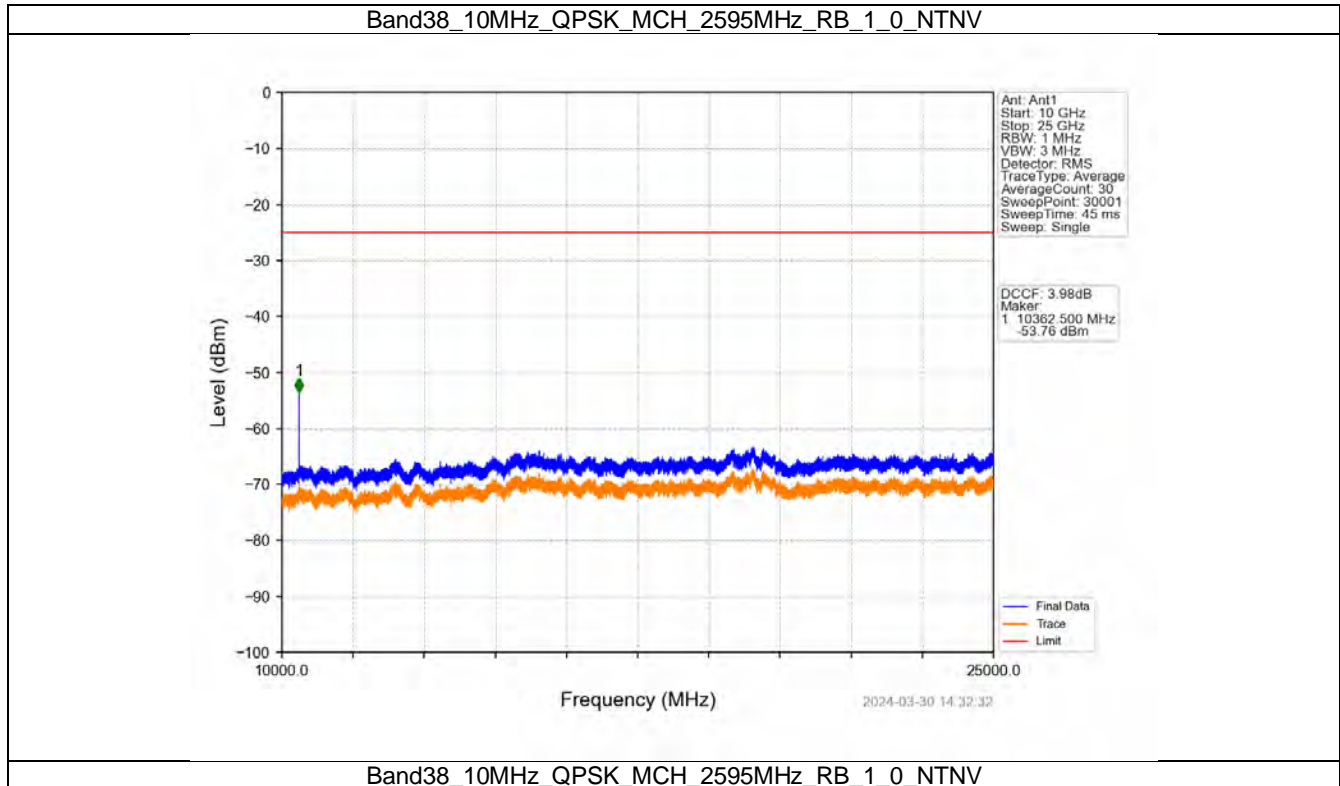


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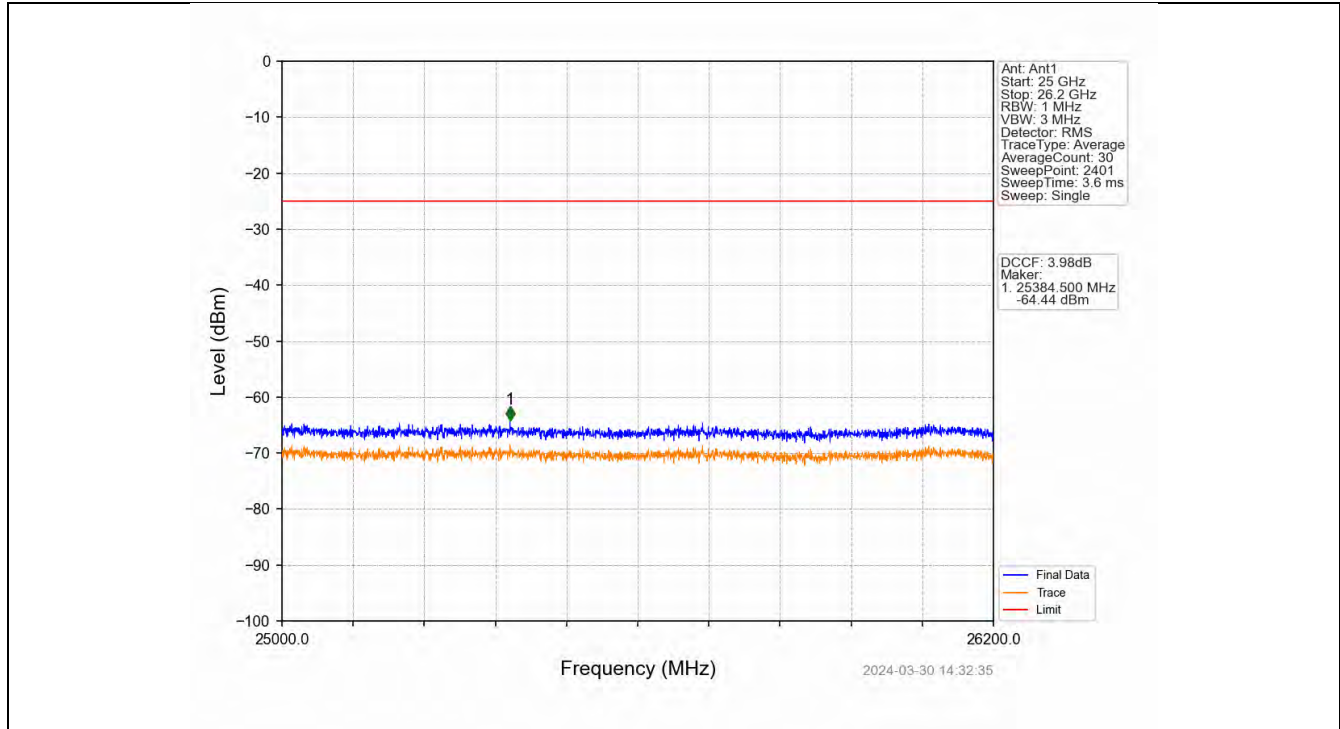


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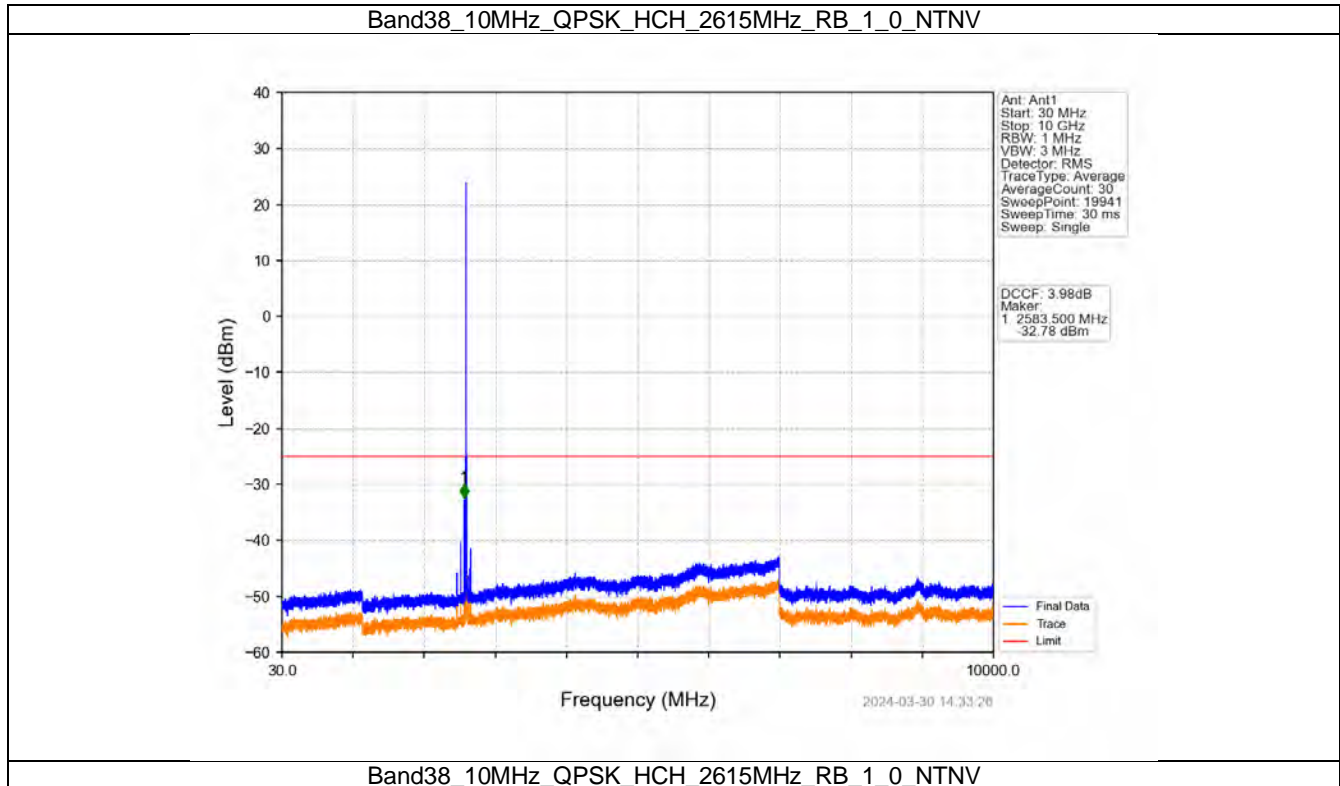


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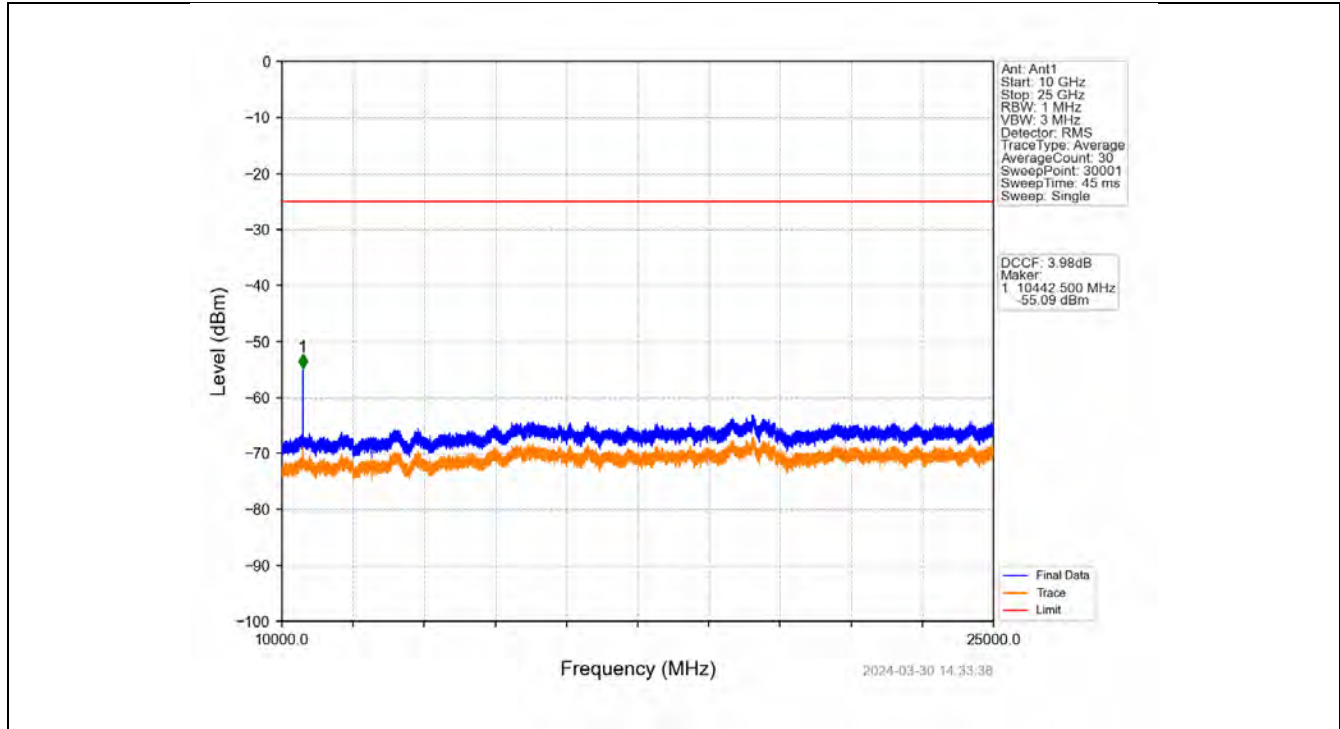


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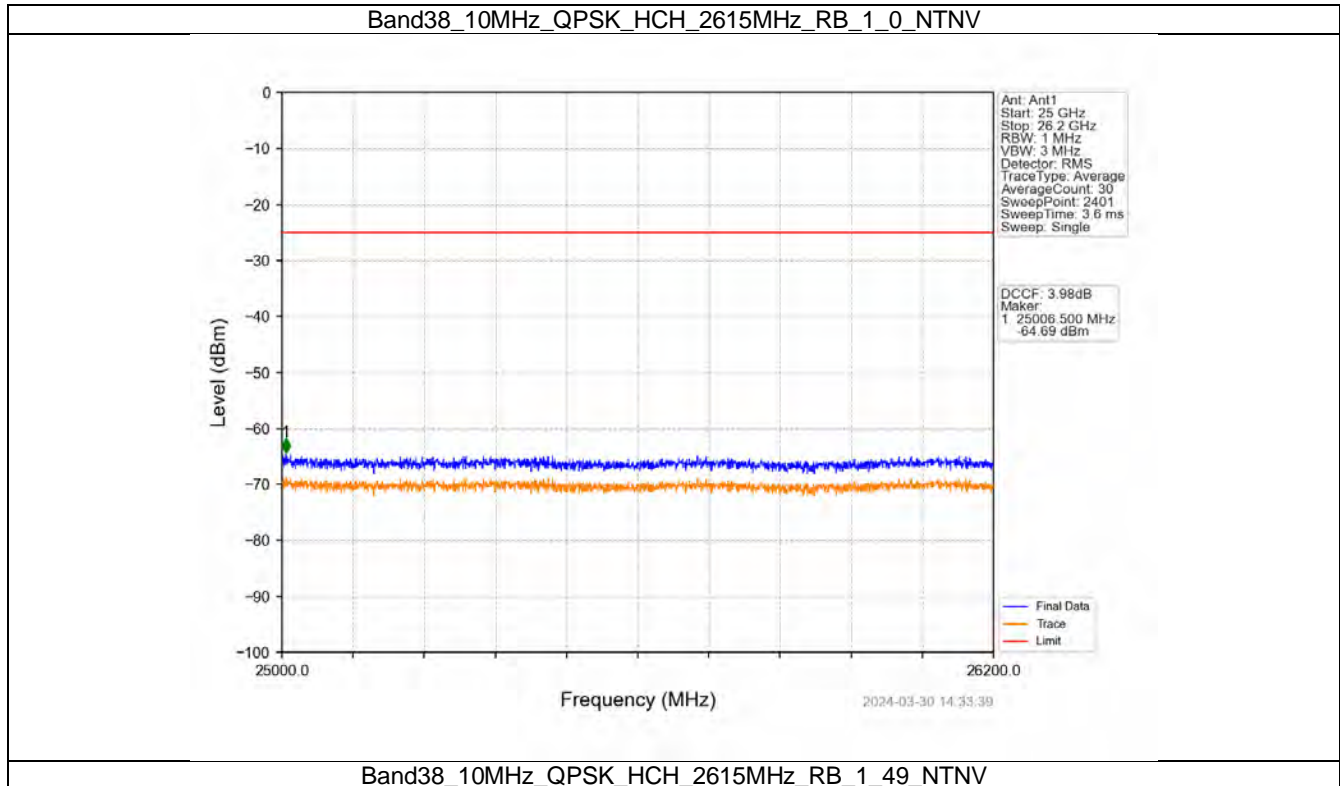


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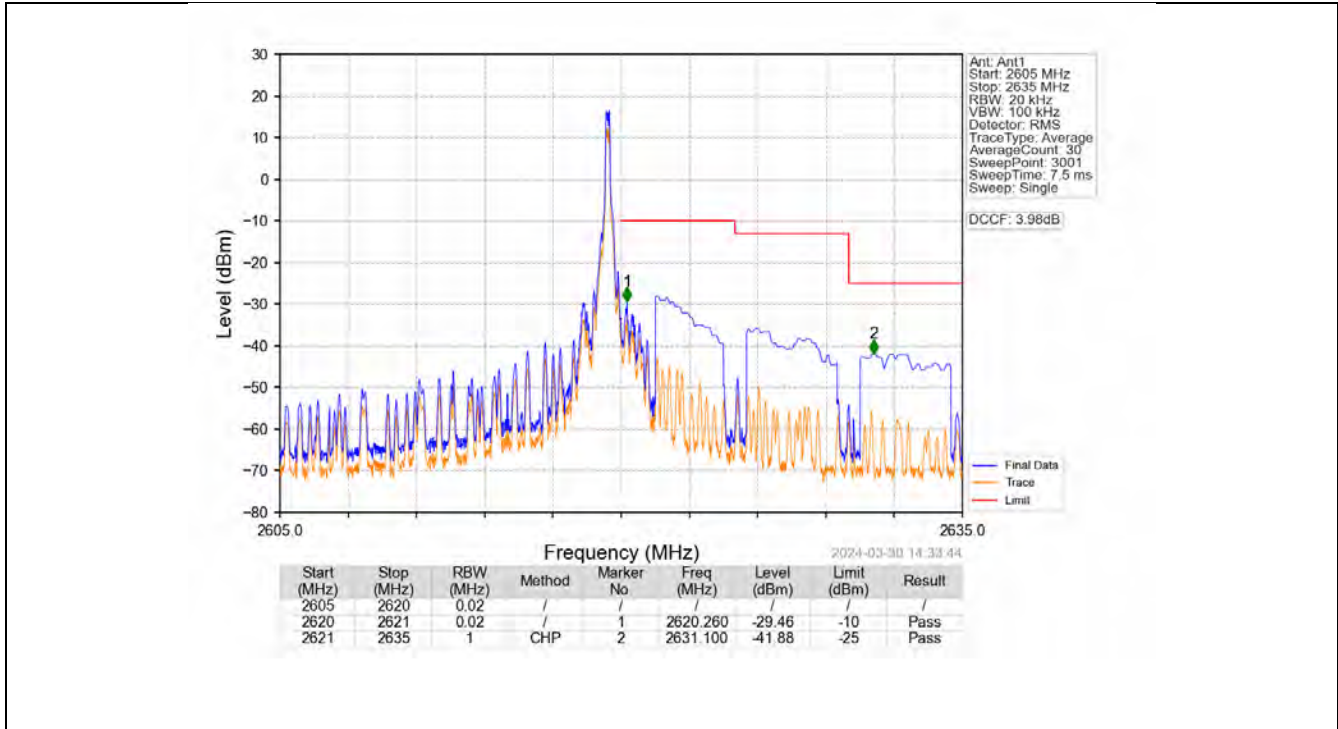


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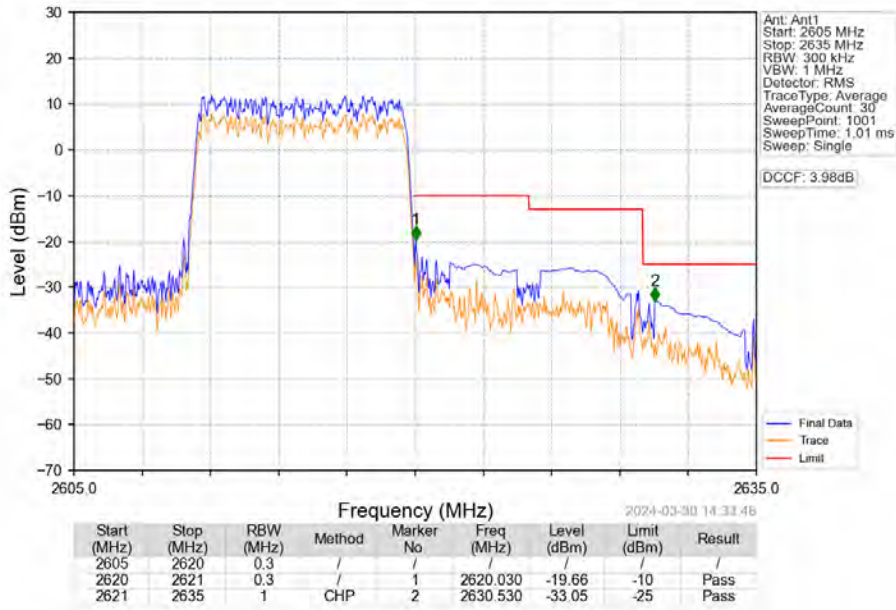
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Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Band38_10MHz_16QAM_LCH_2575MHz_RB_1_0_NTNV



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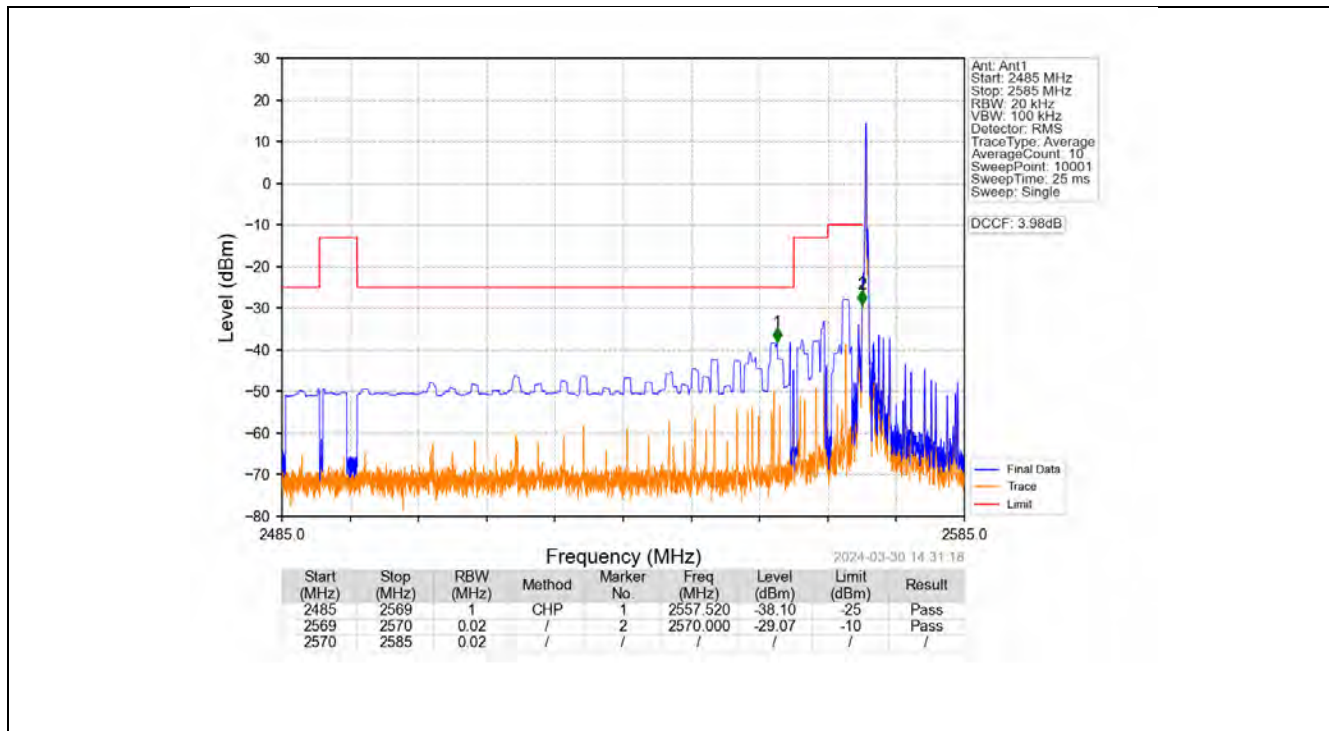
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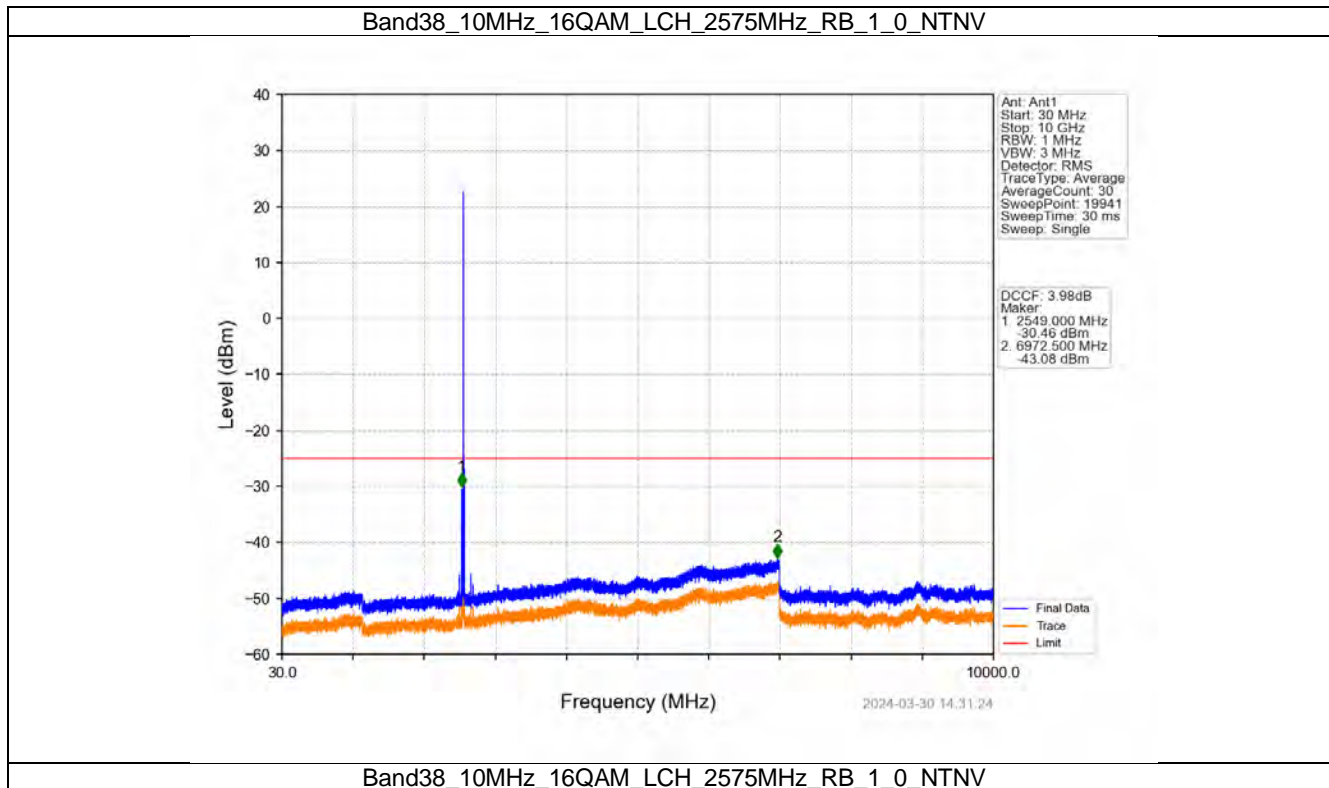
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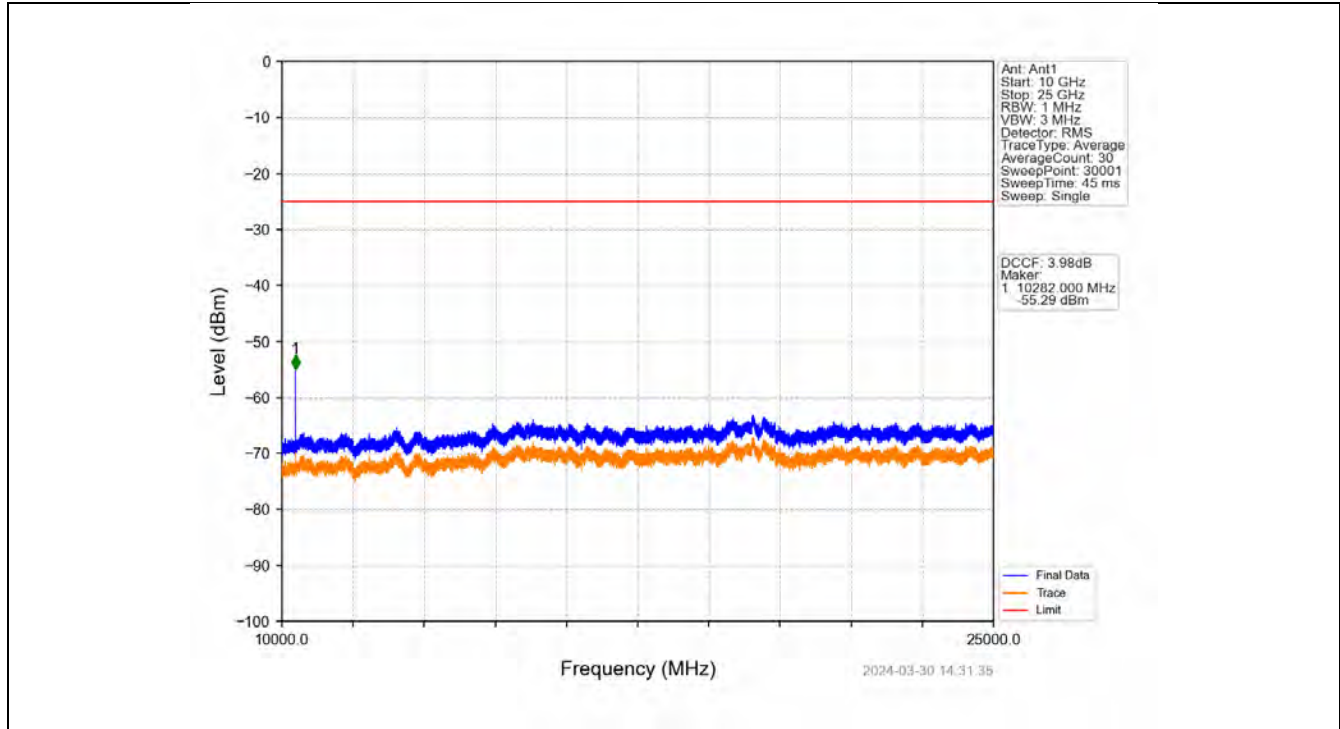


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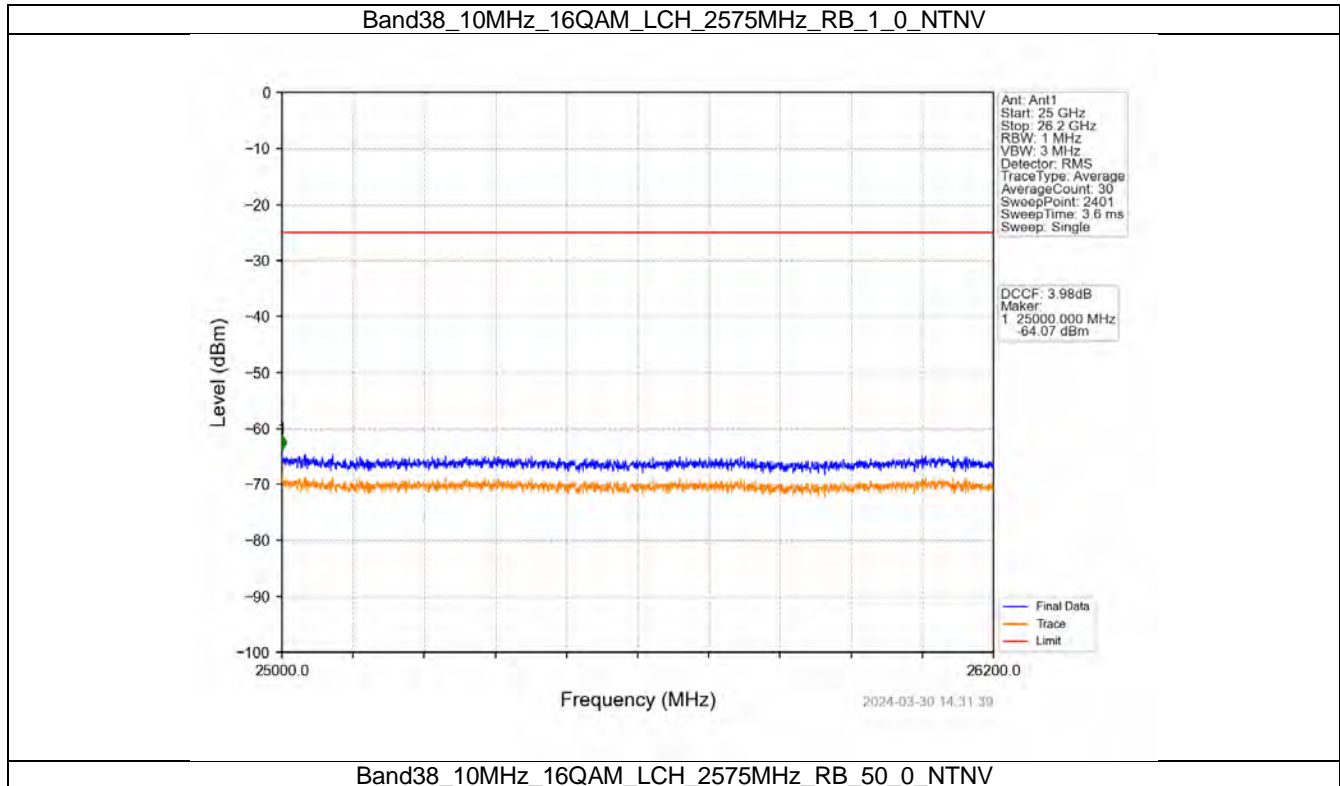


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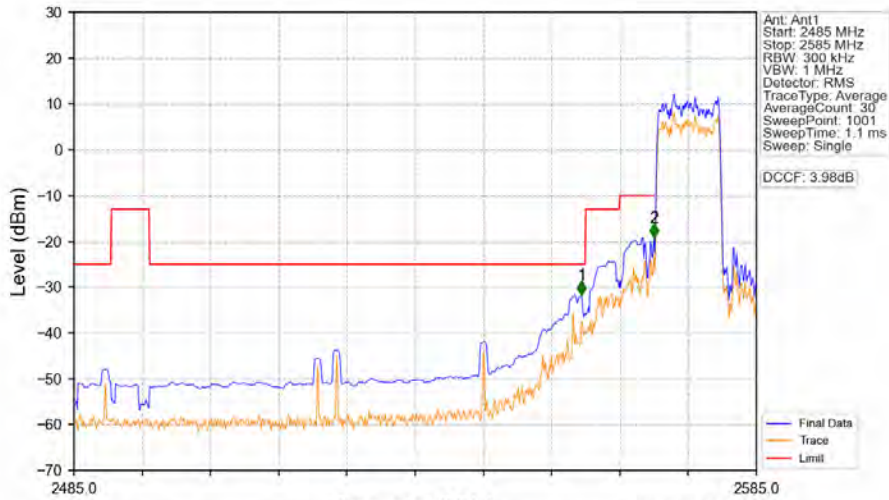


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.400	-31.70	-25	Pass
2569	2570	0.3	/	2	2570.000	-19.20	-10	Pass
2570	2585	0.3	/	/	/	/	/	/



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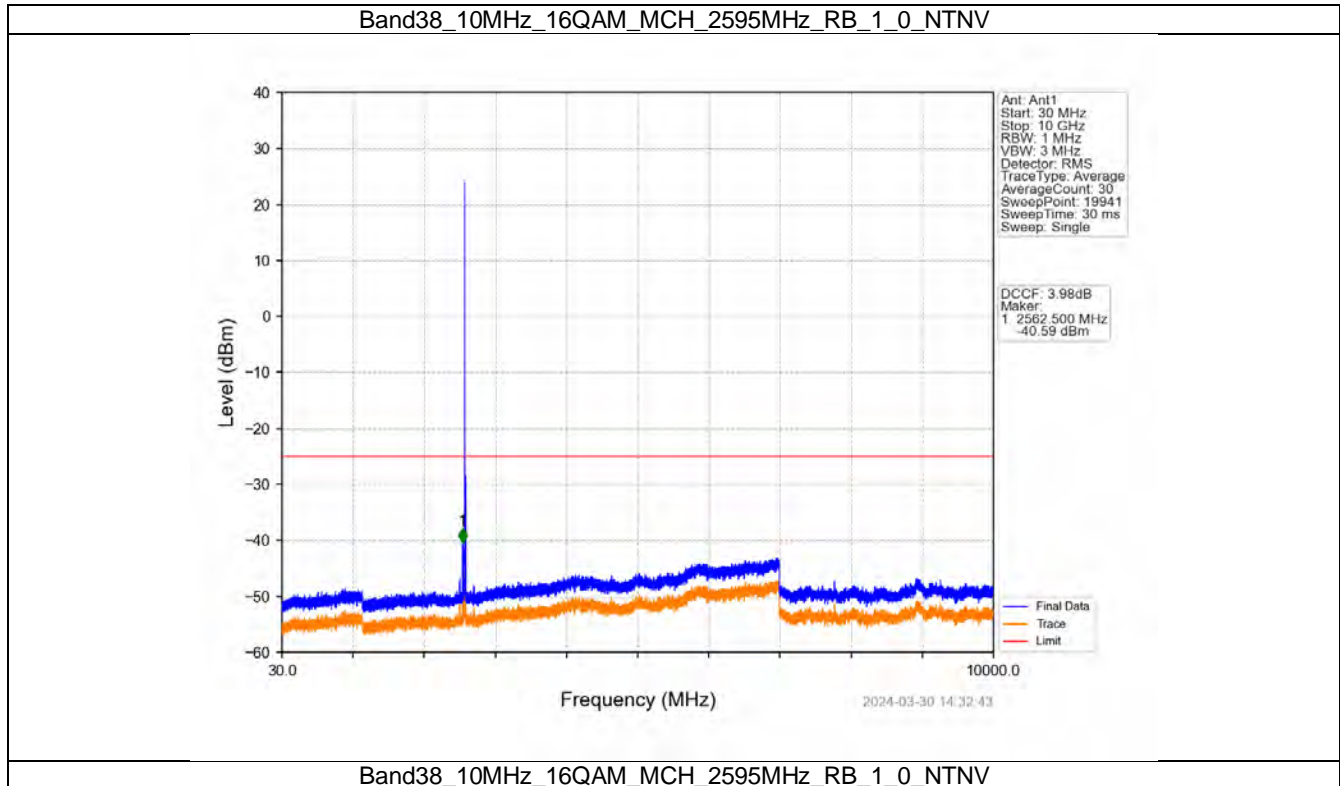


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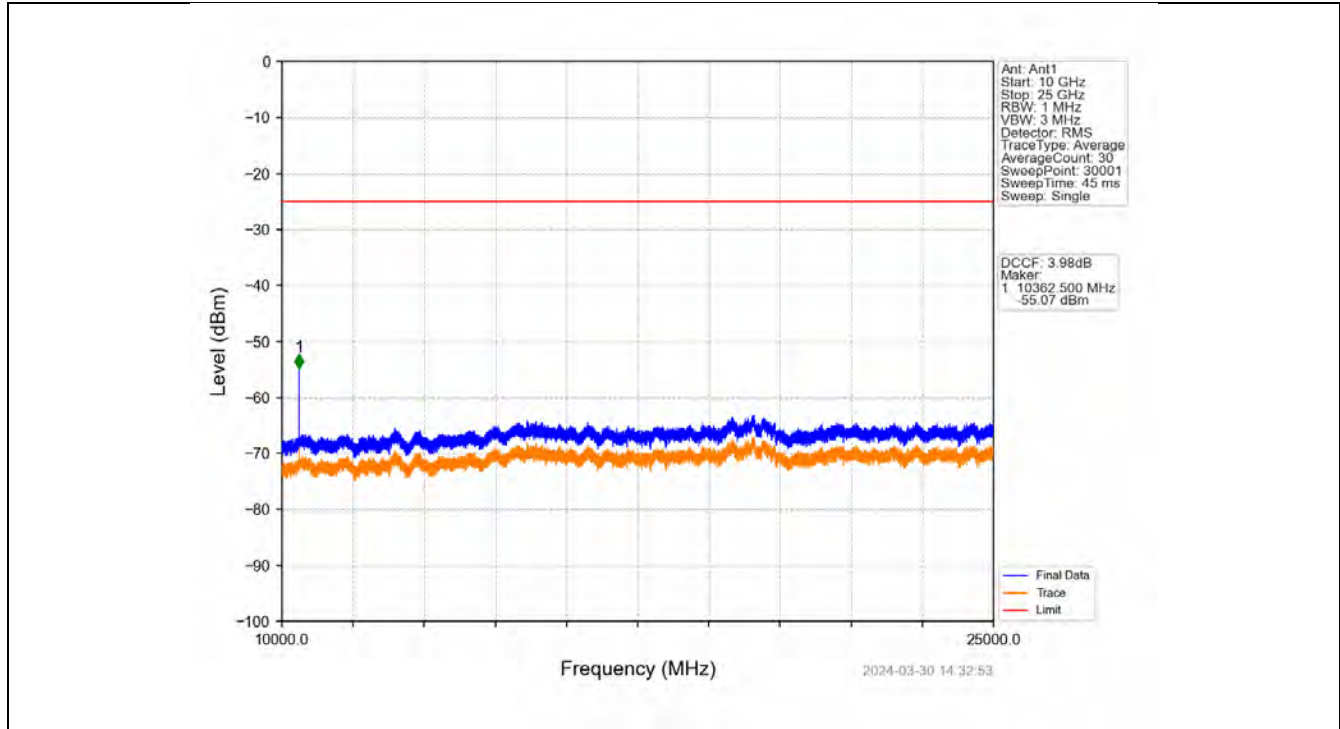


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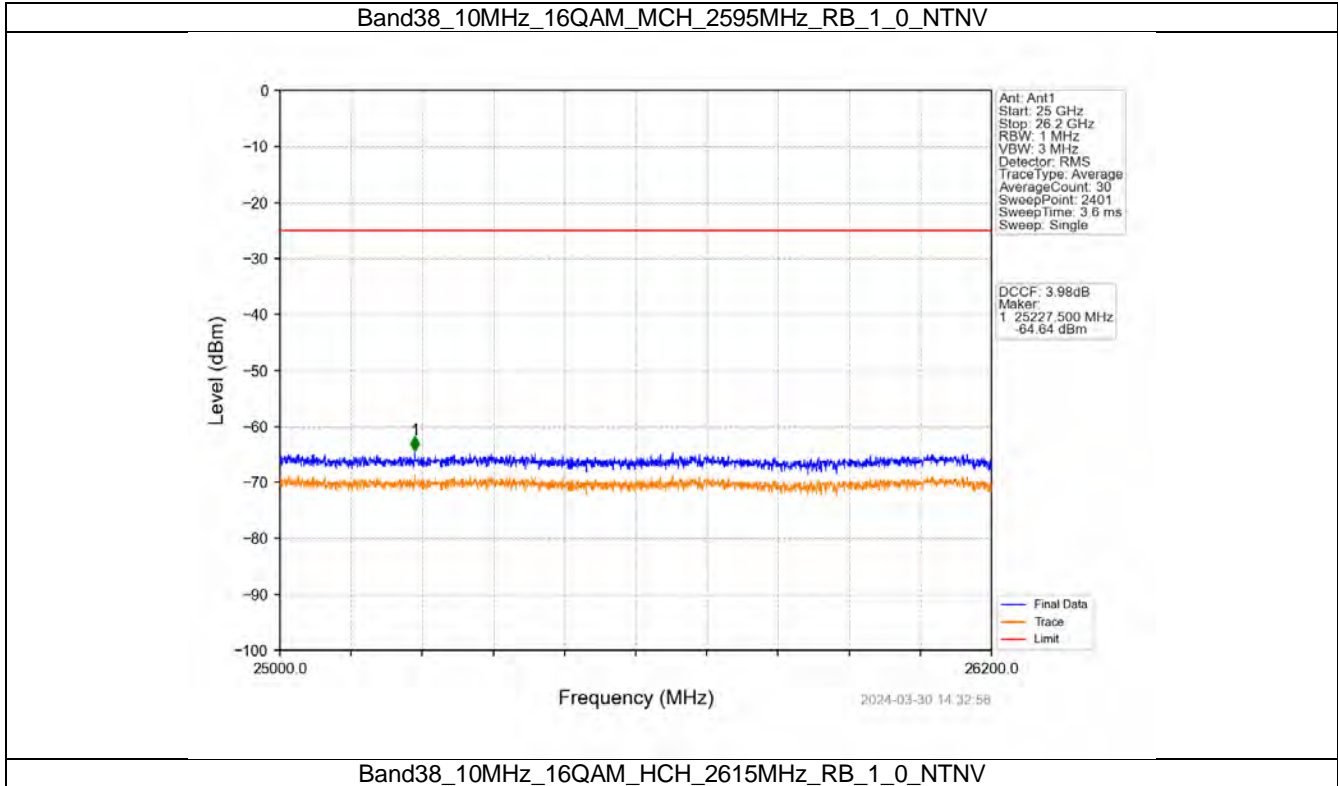


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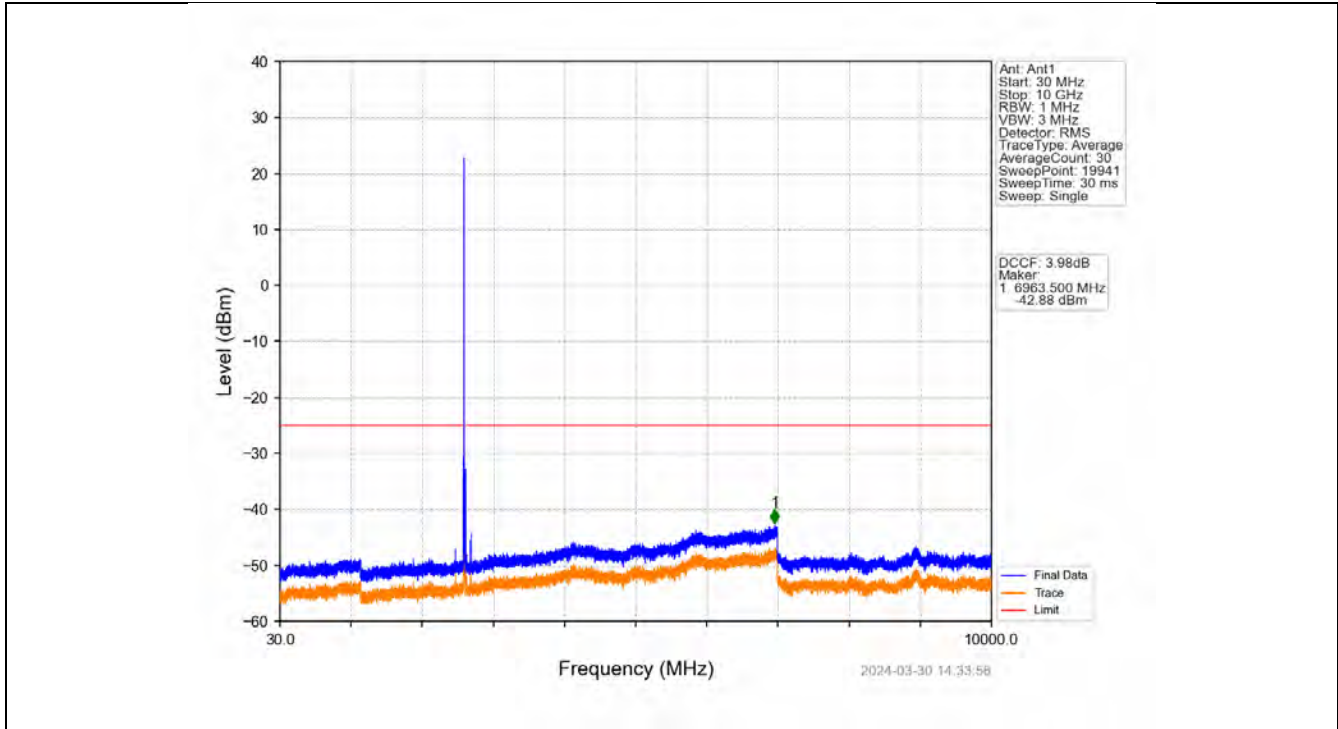


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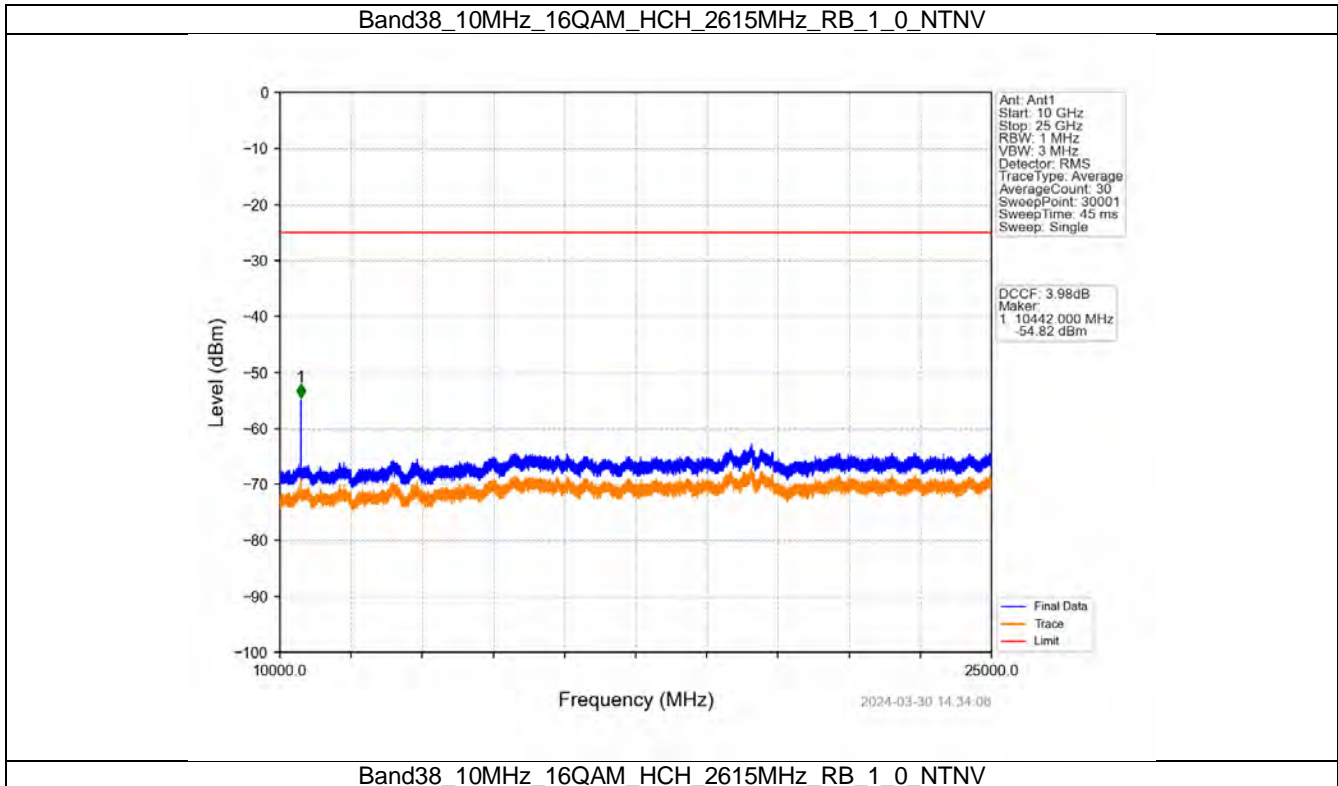


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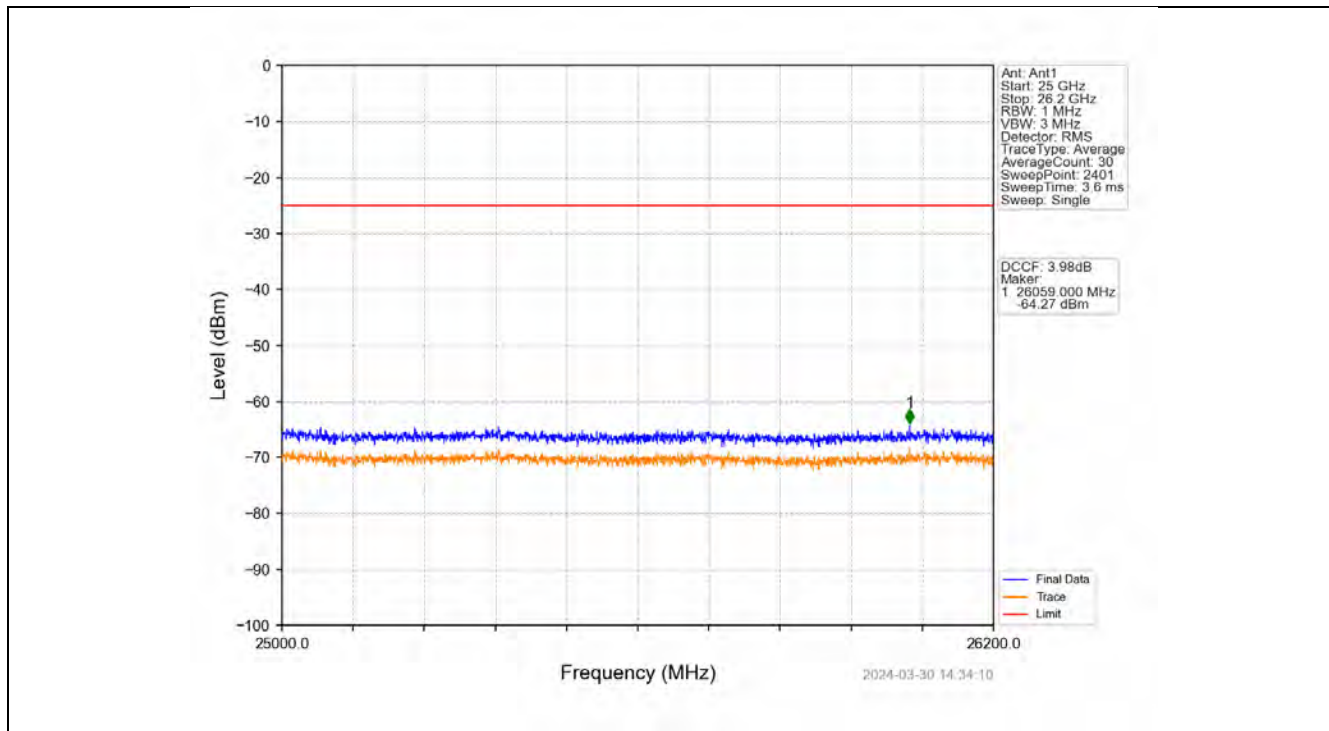
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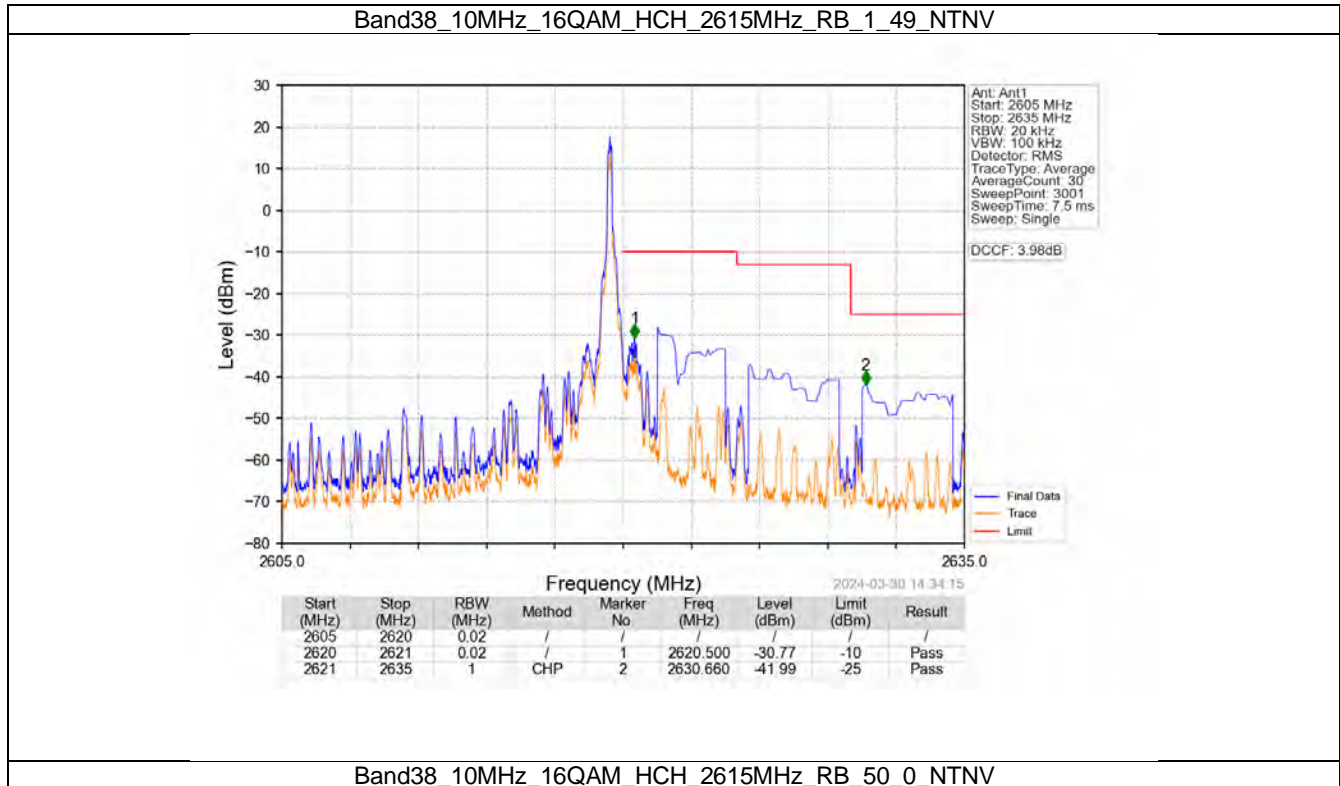


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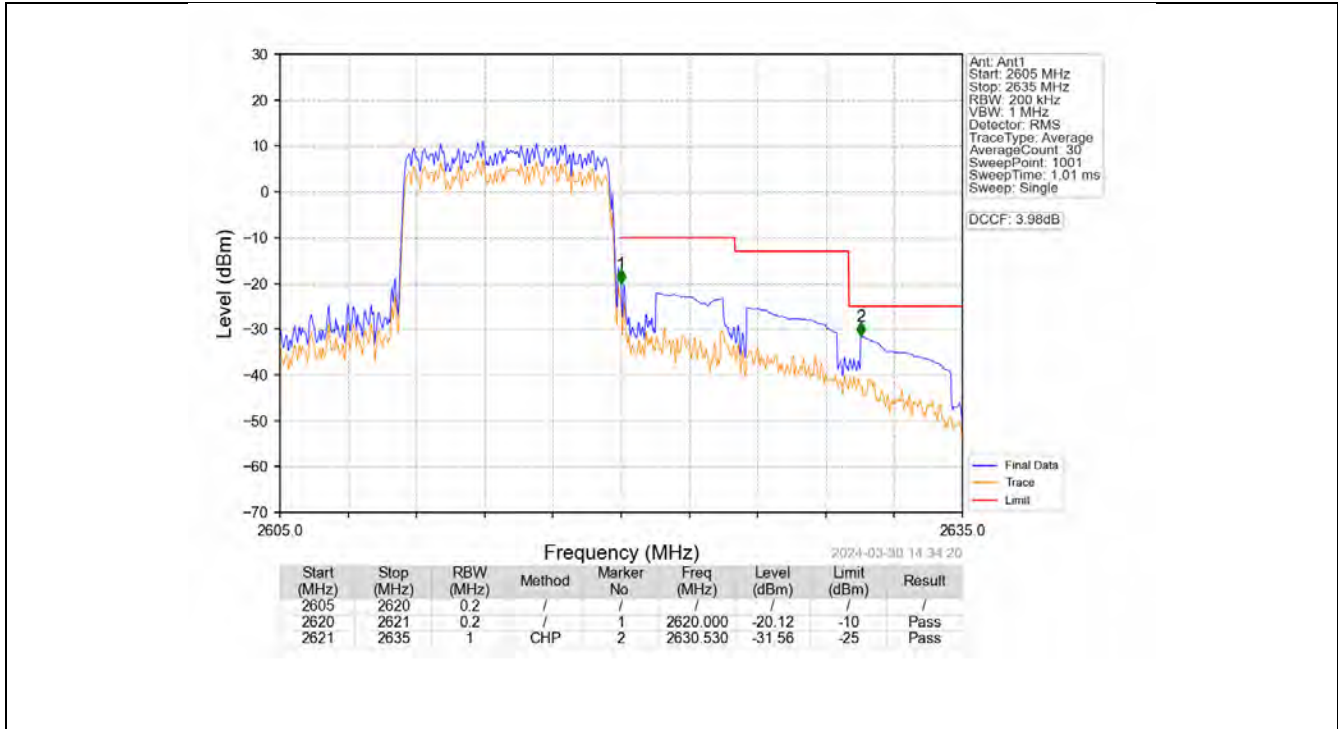


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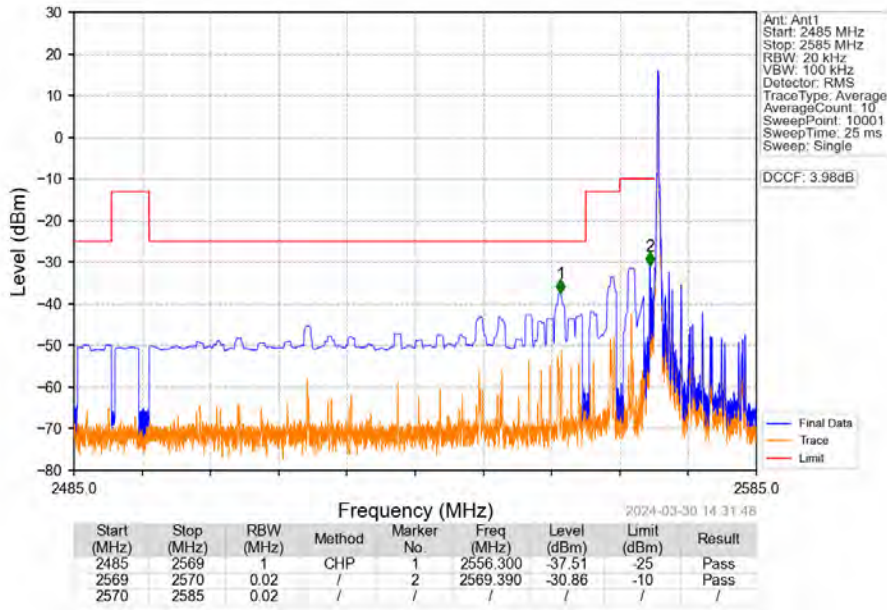
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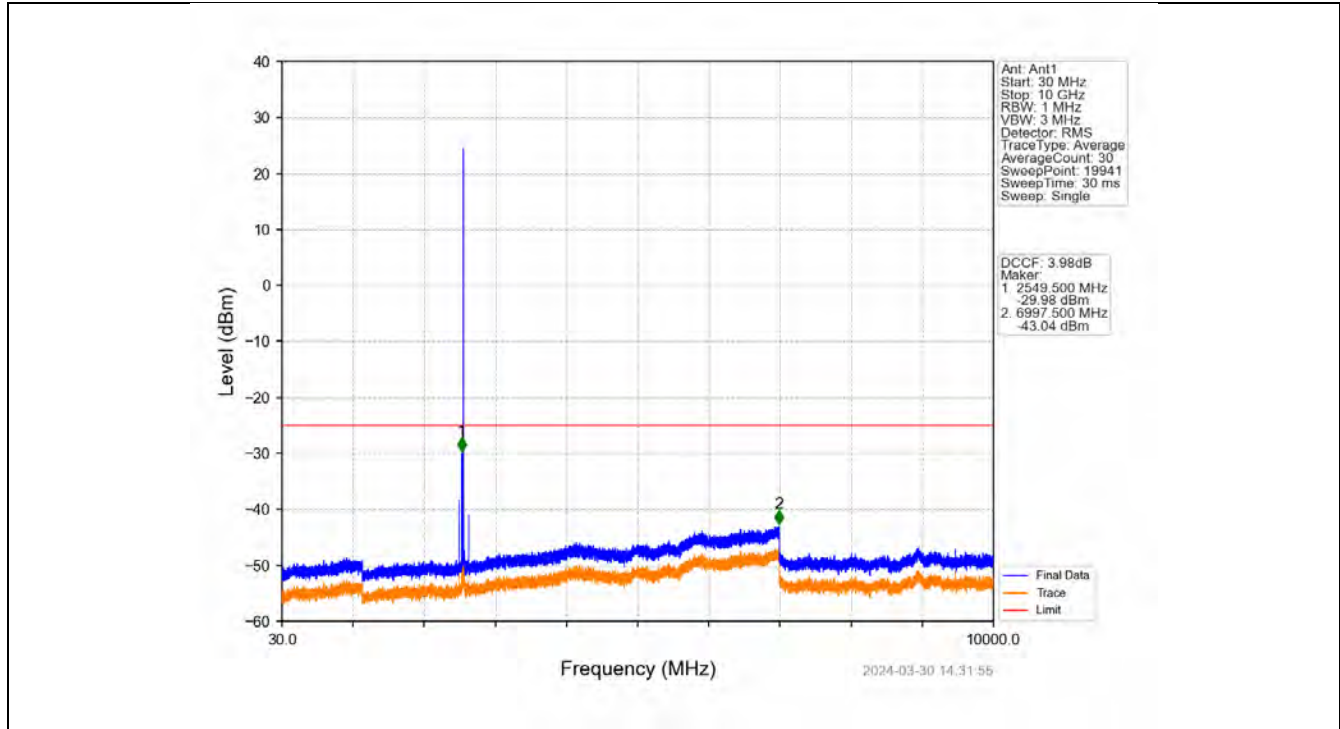


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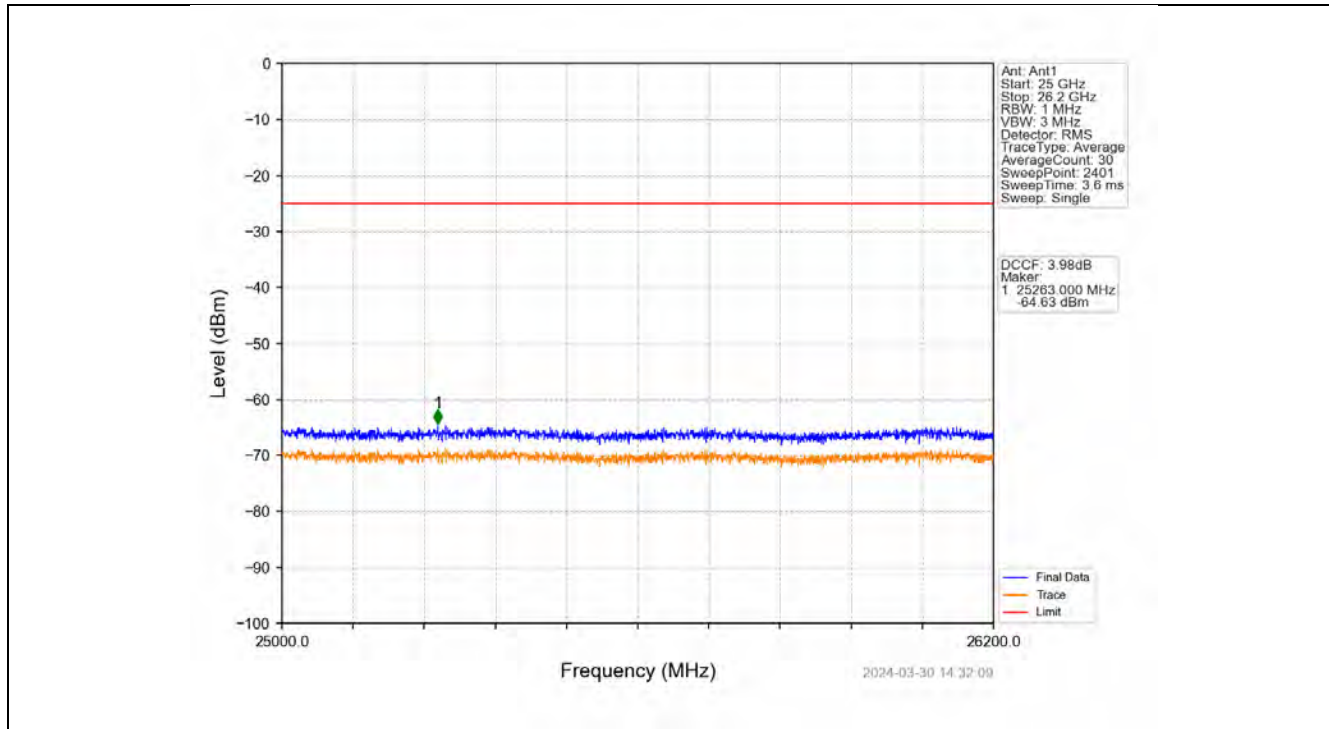
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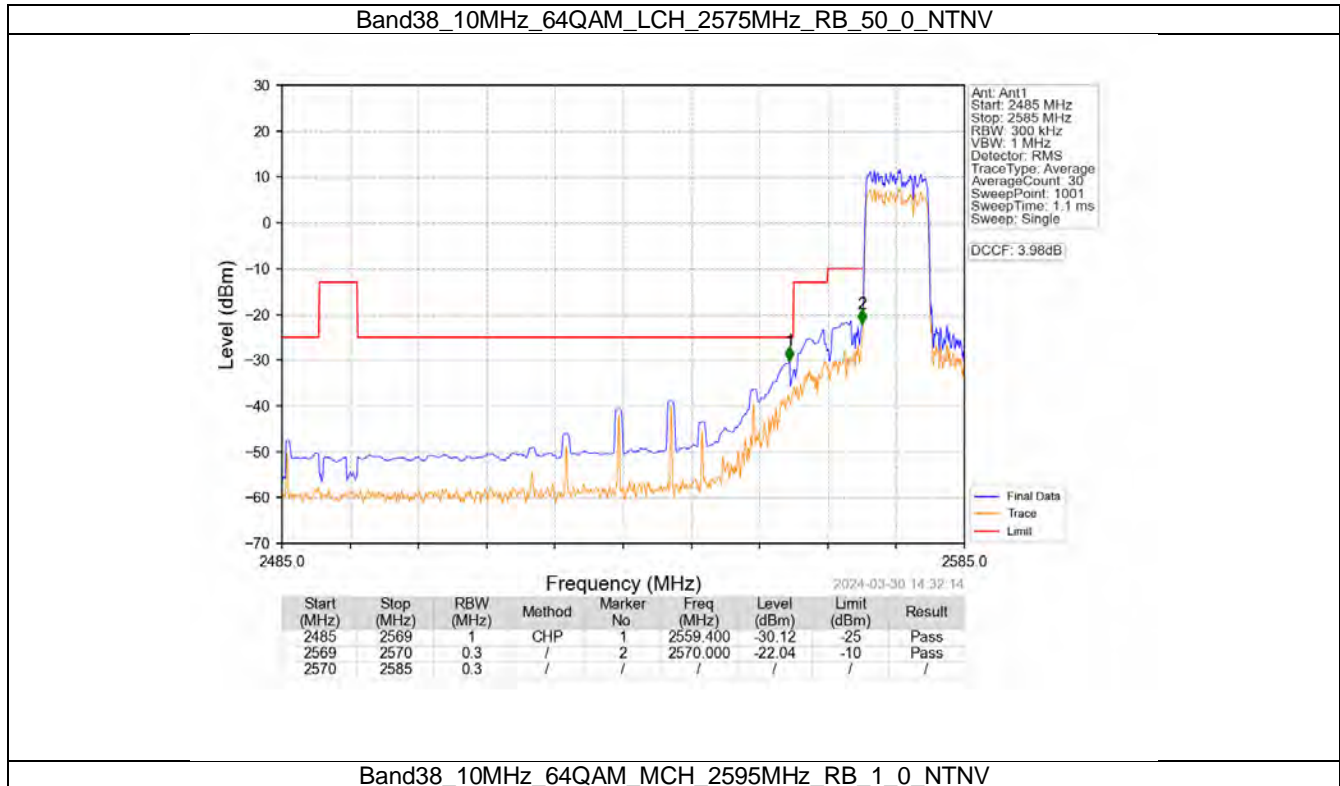


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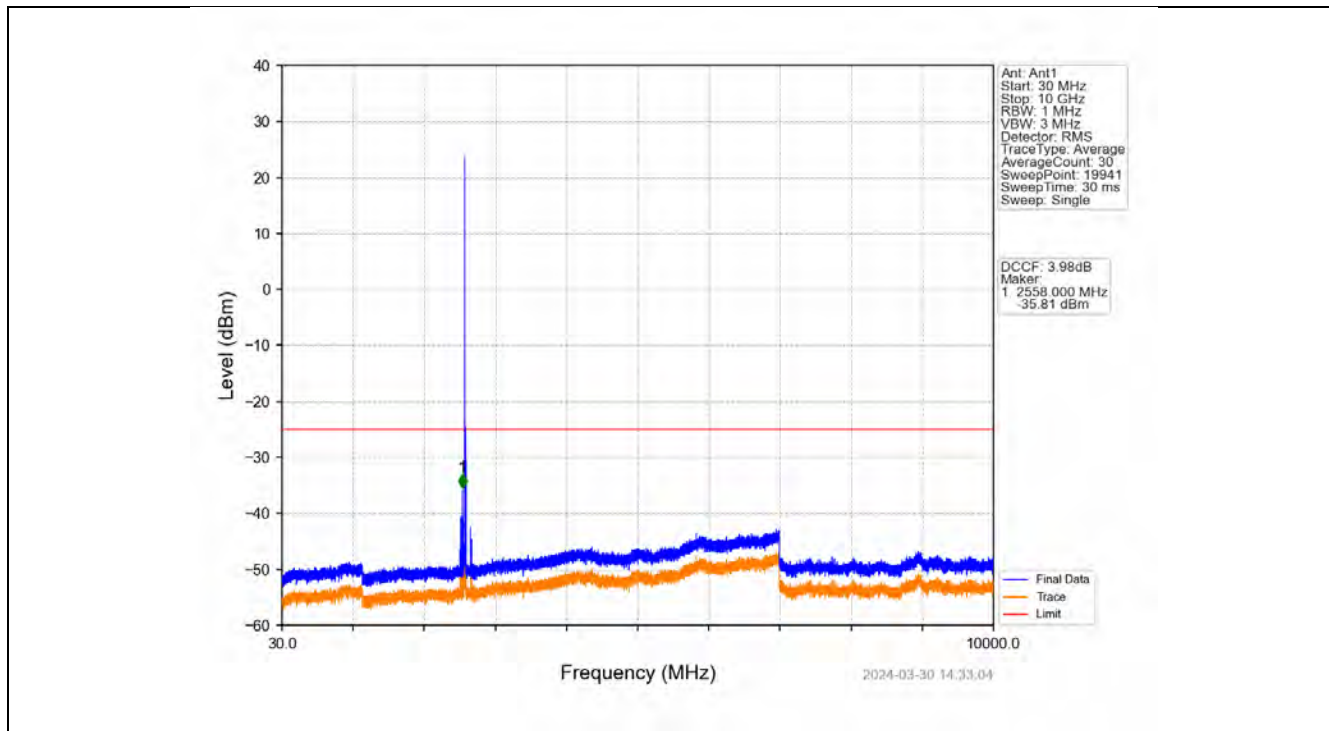
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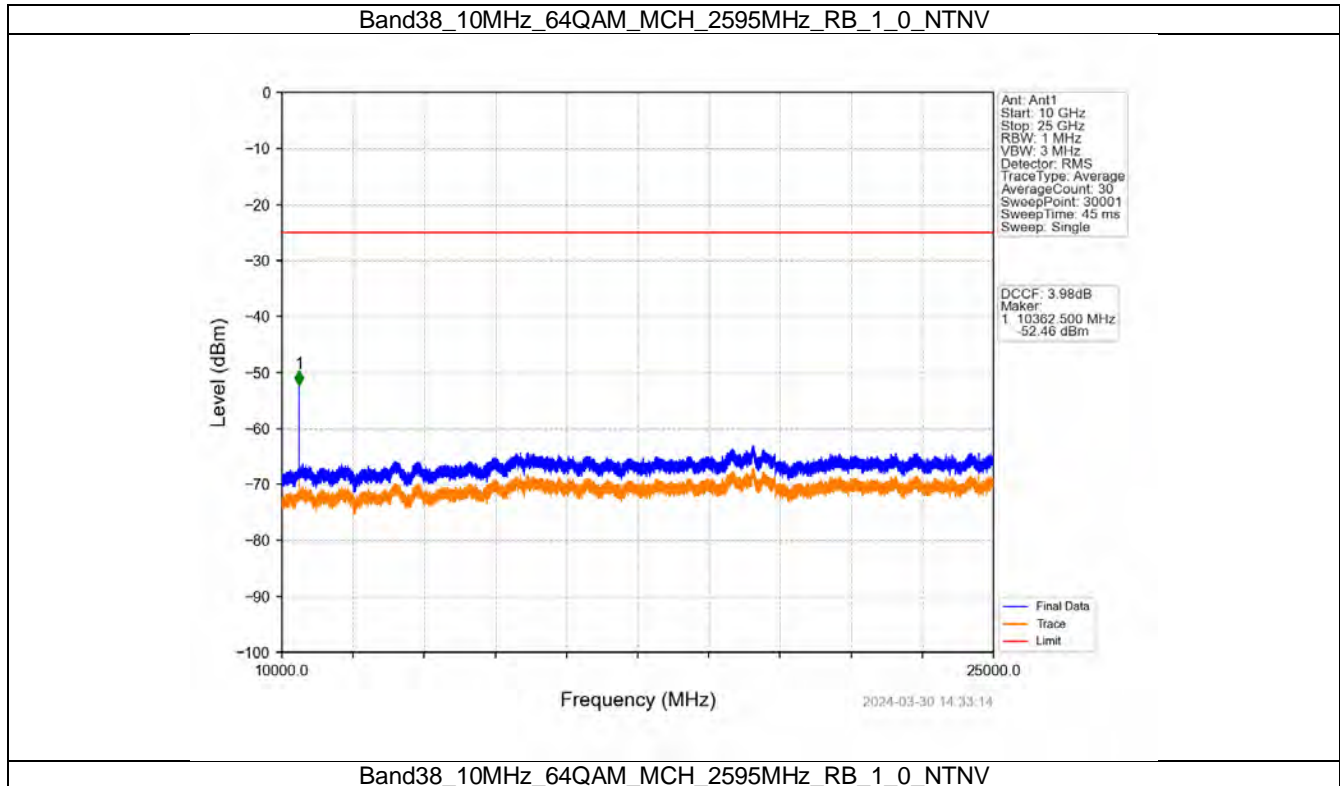


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