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Rev.: 01  
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# Appendix B.15

## LTE Band 38



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

#### 1.1 B38\_5MHz\_EIRP ANT3

##### 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	23.44	-1.2	22.24	<=33.00	Pass		
			13	23.51	-1.2	22.31	<=33.00	Pass		
			24	23.47	-1.2	22.27	<=33.00	Pass		
		12	0	22.45	-1.2	21.25	<=33.00	Pass		
			6	22.54	-1.2	21.34	<=33.00	Pass		
			13	22.45	-1.2	21.25	<=33.00	Pass		
		25	0	22.44	-1.2	21.24	<=33.00	Pass		
		2595	1	0	23.32	-1.2	22.12	<=33.00	Pass	
				13	23.42	-1.2	22.22	<=33.00	Pass	
	24			23.29	-1.2	22.09	<=33.00	Pass		
	12		0	22.28	-1.2	21.08	<=33.00	Pass		
			6	22.31	-1.2	21.11	<=33.00	Pass		
			13	22.35	-1.2	21.15	<=33.00	Pass		
	25		0	22.33	-1.2	21.13	<=33.00	Pass		
	2617.5		1	0	23.36	-1.2	22.16	<=33.00	Pass	
				13	23.4	-1.2	22.2	<=33.00	Pass	
		24		23.3	-1.2	22.1	<=33.00	Pass		
		12	0	22.28	-1.2	21.08	<=33.00	Pass		
			6	22.31	-1.2	21.11	<=33.00	Pass		
			13	22.34	-1.2	21.14	<=33.00	Pass		
		25	0	22.28	-1.2	21.08	<=33.00	Pass		
		16QAM	2572.5	1	0	22.37	-1.2	21.17	<=33.00	Pass
					13	22.5	-1.2	21.3	<=33.00	Pass
	24				22.38	-1.2	21.18	<=33.00	Pass	
12	0			21.34	-1.2	20.14	<=33.00	Pass		
	6			21.52	-1.2	20.32	<=33.00	Pass		
	13			21.55	-1.2	20.35	<=33.00	Pass		
25	0			21.48	-1.2	20.28	<=33.00	Pass		
2595	1			0	22.16	-1.2	20.96	<=33.00	Pass	
				13	22.3	-1.2	21.1	<=33.00	Pass	
			24	22.34	-1.2	21.14	<=33.00	Pass		
	12		0	21.28	-1.2	20.08	<=33.00	Pass		
			6	21.21	-1.2	20.01	<=33.00	Pass		
			13	21.29	-1.2	20.09	<=33.00	Pass		
	25		0	21.32	-1.2	20.12	<=33.00	Pass		
	2617.5		1	0	22.25	-1.2	21.05	<=33.00	Pass	
				13	22.44	-1.2	21.24	<=33.00	Pass	



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			24	22.29	-1.2	21.09	<=33.00	Pass		
		12	0	21.19	-1.2	19.99	<=33.00	Pass		
			6	21.43	-1.2	20.23	<=33.00	Pass		
			13	21.34	-1.2	20.14	<=33.00	Pass		
			25	0	21.26	-1.2	20.06	<=33.00	Pass	
64QAM	2572.5	1	0	21.32	-1.2	20.12	<=33.00	Pass		
			13	21.47	-1.2	20.27	<=33.00	Pass		
			24	21.39	-1.2	20.19	<=33.00	Pass		
		12	0	20.45	-1.2	19.25	<=33.00	Pass		
			6	20.48	-1.2	19.28	<=33.00	Pass		
			13	20.46	-1.2	19.26	<=33.00	Pass		
		25	0	20.42	-1.2	19.22	<=33.00	Pass		
		2595	1	0	21.26	-1.2	20.06	<=33.00	Pass	
				13	21.35	-1.2	20.15	<=33.00	Pass	
				24	21.43	-1.2	20.23	<=33.00	Pass	
			12	0	20.32	-1.2	19.12	<=33.00	Pass	
				6	20.32	-1.2	19.12	<=33.00	Pass	
	13			20.38	-1.2	19.18	<=33.00	Pass		
	25		0	20.29	-1.2	19.09	<=33.00	Pass		
	2617.5		1	0	21.3	-1.2	20.1	<=33.00	Pass	
				13	21.39	-1.2	20.19	<=33.00	Pass	
		24		21.28	-1.2	20.08	<=33.00	Pass		
		12	0	20.27	-1.2	19.07	<=33.00	Pass		
			6	20.33	-1.2	19.13	<=33.00	Pass		
			13	20.34	-1.2	19.14	<=33.00	Pass		
		25	0	20.31	-1.2	19.11	<=33.00	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								



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1.2 B38\_10MHz\_EIRP

1.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2575	1	0	23.46	-1.2	22.26	<=33.00	Pass		
			25	23.44	-1.2	22.24	<=33.00	Pass		
			49	23.32	-1.2	22.12	<=33.00	Pass		
		25	0	22.47	-1.2	21.27	<=33.00	Pass		
			13	22.5	-1.2	21.3	<=33.00	Pass		
			25	22.44	-1.2	21.24	<=33.00	Pass		
		50	0	22.47	-1.2	21.27	<=33.00	Pass		
		2595	1	0	23.36	-1.2	22.16	<=33.00	Pass	
				25	23.38	-1.2	22.18	<=33.00	Pass	
	49			23.31	-1.2	22.11	<=33.00	Pass		
	25		0	22.34	-1.2	21.14	<=33.00	Pass		
			13	22.38	-1.2	21.18	<=33.00	Pass		
			25	22.38	-1.2	21.18	<=33.00	Pass		
	50		0	22.34	-1.2	21.14	<=33.00	Pass		
	2615		1	0	23.35	-1.2	22.15	<=33.00	Pass	
				25	23.3	-1.2	22.1	<=33.00	Pass	
		49		23.27	-1.2	22.07	<=33.00	Pass		
		25	0	22.35	-1.2	21.15	<=33.00	Pass		
			13	22.36	-1.2	21.16	<=33.00	Pass		
			25	22.35	-1.2	21.15	<=33.00	Pass		
		50	0	22.38	-1.2	21.18	<=33.00	Pass		
		16QAM	2575	1	0	22.55	-1.2	21.35	<=33.00	Pass
					25	22.54	-1.2	21.34	<=33.00	Pass
	49				22.42	-1.2	21.22	<=33.00	Pass	
25	0			21.45	-1.2	20.25	<=33.00	Pass		
	13			21.41	-1.2	20.21	<=33.00	Pass		
	25			21.41	-1.2	20.21	<=33.00	Pass		
50	0			21.42	-1.2	20.22	<=33.00	Pass		
2595	1			0	22.35	-1.2	21.15	<=33.00	Pass	
				25	22.4	-1.2	21.2	<=33.00	Pass	
			49	22.38	-1.2	21.18	<=33.00	Pass		
	25		0	21.34	-1.2	20.14	<=33.00	Pass		
			13	21.35	-1.2	20.15	<=33.00	Pass		
			25	21.44	-1.2	20.24	<=33.00	Pass		
	50		0	21.32	-1.2	20.12	<=33.00	Pass		
	2615		1	0	22.44	-1.2	21.24	<=33.00	Pass	
				25	22.29	-1.2	21.09	<=33.00	Pass	
49				22.25	-1.2	21.05	<=33.00	Pass		
25			0	21.37	-1.2	20.17	<=33.00	Pass		
			13	21.41	-1.2	20.21	<=33.00	Pass		



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			25	21.36	-1.2	20.16	<=33.00	Pass
		50	0	21.35	-1.2	20.15	<=33.00	Pass
64QAM	2575	1	0	21.51	-1.2	20.31	<=33.00	Pass
			25	21.4	-1.2	20.2	<=33.00	Pass
			49	21.32	-1.2	20.12	<=33.00	Pass
		25	0	20.48	-1.2	19.28	<=33.00	Pass
			13	20.47	-1.2	19.27	<=33.00	Pass
			25	20.41	-1.2	19.21	<=33.00	Pass
	50	0	20.46	-1.2	19.26	<=33.00	Pass	
	2595	1	0	21.36	-1.2	20.16	<=33.00	Pass
			25	21.29	-1.2	20.09	<=33.00	Pass
			49	21.37	-1.2	20.17	<=33.00	Pass
		25	0	20.35	-1.2	19.15	<=33.00	Pass
			13	20.34	-1.2	19.14	<=33.00	Pass
			25	20.39	-1.2	19.19	<=33.00	Pass
	50	0	20.33	-1.2	19.13	<=33.00	Pass	
	2615	1	0	21.49	-1.2	20.29	<=33.00	Pass
			25	21.35	-1.2	20.15	<=33.00	Pass
			49	21.21	-1.2	20.01	<=33.00	Pass
		25	0	20.36	-1.2	19.16	<=33.00	Pass
			13	20.4	-1.2	19.2	<=33.00	Pass
			25	20.35	-1.2	19.15	<=33.00	Pass
50	0	20.39	-1.2	19.19	<=33.00	Pass		
Note1: EIRP=Conducted Power+Antenna Gain								



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1.3 B38\_15MHz\_EIRP

1.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2577.5	1	0	23.39	-1.2	22.19	<=33.00	Pass		
			38	23.27	-1.2	22.07	<=33.00	Pass		
			74	23.14	-1.2	21.94	<=33.00	Pass		
		36	0	22.38	-1.2	21.18	<=33.00	Pass		
			18	22.35	-1.2	21.15	<=33.00	Pass		
			39	22.33	-1.2	21.13	<=33.00	Pass		
		75	0	22.34	-1.2	21.14	<=33.00	Pass		
		2595	1	0	23.22	-1.2	22.02	<=33.00	Pass	
				38	23.19	-1.2	21.99	<=33.00	Pass	
	74			23.17	-1.2	21.97	<=33.00	Pass		
	36		0	22.24	-1.2	21.04	<=33.00	Pass		
			18	22.24	-1.2	21.04	<=33.00	Pass		
			39	22.27	-1.2	21.07	<=33.00	Pass		
	75		0	22.24	-1.2	21.04	<=33.00	Pass		
	2612.5		1	0	23.17	-1.2	21.97	<=33.00	Pass	
				38	23.09	-1.2	21.89	<=33.00	Pass	
		74		23.09	-1.2	21.89	<=33.00	Pass		
		36	0	22.25	-1.2	21.05	<=33.00	Pass		
			18	22.2	-1.2	21	<=33.00	Pass		
			39	22.17	-1.2	20.97	<=33.00	Pass		
		75	0	22.17	-1.2	20.97	<=33.00	Pass		
		16QAM	2577.5	1	0	22.35	-1.2	21.15	<=33.00	Pass
					38	22.32	-1.2	21.12	<=33.00	Pass
	74				22.19	-1.2	20.99	<=33.00	Pass	
36	0			21.37	-1.2	20.17	<=33.00	Pass		
	18			21.35	-1.2	20.15	<=33.00	Pass		
	39			21.31	-1.2	20.11	<=33.00	Pass		
75	0			21.34	-1.2	20.14	<=33.00	Pass		
2595	1			0	22.18	-1.2	20.98	<=33.00	Pass	
				38	22.16	-1.2	20.96	<=33.00	Pass	
			74	22.12	-1.2	20.92	<=33.00	Pass		
	36		0	21.25	-1.2	20.05	<=33.00	Pass		
			18	21.18	-1.2	19.98	<=33.00	Pass		
			39	21.29	-1.2	20.09	<=33.00	Pass		
	75		0	21.23	-1.2	20.03	<=33.00	Pass		
	2612.5		1	0	22.15	-1.2	20.95	<=33.00	Pass	
				38	22.05	-1.2	20.85	<=33.00	Pass	
74				22.08	-1.2	20.88	<=33.00	Pass		
36			0	21.28	-1.2	20.08	<=33.00	Pass		
			18	21.19	-1.2	19.99	<=33.00	Pass		



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			39	21.16	-1.2	19.96	<=33.00	Pass
		75	0	21.19	-1.2	19.99	<=33.00	Pass
64QAM	2577.5	1	0	21.3	-1.2	20.1	<=33.00	Pass
			38	21.22	-1.2	20.02	<=33.00	Pass
			74	21.21	-1.2	20.01	<=33.00	Pass
		36	0	20.38	-1.2	19.18	<=33.00	Pass
			18	20.36	-1.2	19.16	<=33.00	Pass
			39	20.31	-1.2	19.11	<=33.00	Pass
	75	0	20.34	-1.2	19.14	<=33.00	Pass	
	2595	1	0	21.12	-1.2	19.92	<=33.00	Pass
			38	21.3	-1.2	20.1	<=33.00	Pass
			74	21.09	-1.2	19.89	<=33.00	Pass
		36	0	20.25	-1.2	19.05	<=33.00	Pass
			18	20.22	-1.2	19.02	<=33.00	Pass
			39	20.29	-1.2	19.09	<=33.00	Pass
	75	0	20.22	-1.2	19.02	<=33.00	Pass	
	2612.5	1	0	21.08	-1.2	19.88	<=33.00	Pass
			38	21.07	-1.2	19.87	<=33.00	Pass
			74	21.15	-1.2	19.95	<=33.00	Pass
		36	0	20.27	-1.2	19.07	<=33.00	Pass
			18	20.22	-1.2	19.02	<=33.00	Pass
			39	20.18	-1.2	18.98	<=33.00	Pass
	75	0	20.23	-1.2	19.03	<=33.00	Pass	
Note1: EIRP=Conducted Power+Antenna Gain								



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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	23.38	-1.2	22.18	<=33.00	Pass		
			50	23.29	-1.2	22.09	<=33.00	Pass		
			99	23.16	-1.2	21.96	<=33.00	Pass		
		50	0	22.39	-1.2	21.19	<=33.00	Pass		
			25	22.34	-1.2	21.14	<=33.00	Pass		
			50	22.25	-1.2	21.05	<=33.00	Pass		
		100	0	22.29	-1.2	21.09	<=33.00	Pass		
		2595	1	0	23.22	-1.2	22.02	<=33.00	Pass	
				50	23.24	-1.2	22.04	<=33.00	Pass	
	99			23.11	-1.2	21.91	<=33.00	Pass		
	50		0	22.23	-1.2	21.03	<=33.00	Pass		
			25	22.27	-1.2	21.07	<=33.00	Pass		
			50	22.34	-1.2	21.14	<=33.00	Pass		
	100		0	22.23	-1.2	21.03	<=33.00	Pass		
	2610		1	0	23.18	-1.2	21.98	<=33.00	Pass	
				50	23.19	-1.2	21.99	<=33.00	Pass	
		99		23.11	-1.2	21.91	<=33.00	Pass		
		50	0	22.32	-1.2	21.12	<=33.00	Pass		
			25	22.35	-1.2	21.15	<=33.00	Pass		
			50	22.2	-1.2	21	<=33.00	Pass		
		100	0	22.27	-1.2	21.07	<=33.00	Pass		
		16QAM	2580	1	0	22.22	-1.2	21.02	<=33.00	Pass
					50	22.39	-1.2	21.19	<=33.00	Pass
	99				22.08	-1.2	20.88	<=33.00	Pass	
50	0			21.35	-1.2	20.15	<=33.00	Pass		
	25			21.34	-1.2	20.14	<=33.00	Pass		
	50			21.24	-1.2	20.04	<=33.00	Pass		
100	0			21.31	-1.2	20.11	<=33.00	Pass		
2595	1			0	22.11	-1.2	20.91	<=33.00	Pass	
				50	22.12	-1.2	20.92	<=33.00	Pass	
			99	22.03	-1.2	20.83	<=33.00	Pass		
	50		0	21.26	-1.2	20.06	<=33.00	Pass		
			25	21.25	-1.2	20.05	<=33.00	Pass		
			50	21.33	-1.2	20.13	<=33.00	Pass		
	100		0	21.24	-1.2	20.04	<=33.00	Pass		
	2610		1	0	22.38	-1.2	21.18	<=33.00	Pass	
				50	22.19	-1.2	20.99	<=33.00	Pass	
99				22.14	-1.2	20.94	<=33.00	Pass		
50			0	21.31	-1.2	20.11	<=33.00	Pass		
			25	21.32	-1.2	20.12	<=33.00	Pass		



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			50	21.18	-1.2	19.98	<=33.00	Pass
		100	0	21.28	-1.2	20.08	<=33.00	Pass
64QAM	2580	1	0	21.33	-1.2	20.13	<=33.00	Pass
			50	21.32	-1.2	20.12	<=33.00	Pass
			99	21.23	-1.2	20.03	<=33.00	Pass
		50	0	20.35	-1.2	19.15	<=33.00	Pass
			25	20.34	-1.2	19.14	<=33.00	Pass
			50	20.27	-1.2	19.07	<=33.00	Pass
	100	0	20.31	-1.2	19.11	<=33.00	Pass	
	2595	1	0	21.19	-1.2	19.99	<=33.00	Pass
			50	21.26	-1.2	20.06	<=33.00	Pass
			99	21.23	-1.2	20.03	<=33.00	Pass
		50	0	20.28	-1.2	19.08	<=33.00	Pass
			25	20.26	-1.2	19.06	<=33.00	Pass
			50	20.28	-1.2	19.08	<=33.00	Pass
	100	0	20.26	-1.2	19.06	<=33.00	Pass	
	2610	1	0	21.26	-1.2	20.06	<=33.00	Pass
			50	21.25	-1.2	20.05	<=33.00	Pass
			99	21.09	-1.2	19.89	<=33.00	Pass
		50	0	20.31	-1.2	19.11	<=33.00	Pass
			25	20.32	-1.2	19.12	<=33.00	Pass
			50	20.23	-1.2	19.03	<=33.00	Pass
	100	0	20.28	-1.2	19.08	<=33.00	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	3.5	-4.323	-0.0017	/	Pass
					3.91	0.888	0.0003	/	Pass
					4.35	-1.562	-0.0006	/	Pass
				-30	3.91	-6.043	-0.0023	/	Pass
				-20	3.91	-3.443	-0.0013	/	Pass
				-10	3.91	-5.133	-0.0020	/	Pass
				0	3.91	-4.571	-0.0018	/	Pass
				10	3.91	0.245	0.0001	/	Pass
				30	3.91	-5.080	-0.0020	/	Pass
				40	3.91	-3.987	-0.0015	/	Pass
	50	3.91	-3.956	-0.0015	/	Pass			
	2595	25	0	20	3.5	-1.723	-0.0007	/	Pass
					3.91	-1.359	-0.0005	/	Pass
					4.35	1.824	0.0007	/	Pass
				-30	3.91	1.403	0.0005	/	Pass
				-20	3.91	3.033	0.0012	/	Pass
				-10	3.91	-1.888	-0.0007	/	Pass
				0	3.91	-1.681	-0.0006	/	Pass
				10	3.91	-2.241	-0.0009	/	Pass
				30	3.91	2.488	0.0010	/	Pass
				40	3.91	1.178	0.0005	/	Pass
	50	3.91	3.110	0.0012	/	Pass			
	2617.5	25	0	20	3.5	-5.635	-0.0022	/	Pass
					3.91	0.284	0.0001	/	Pass
					4.35	-1.073	-0.0004	/	Pass
				-30	3.91	-2.759	-0.0011	/	Pass
				-20	3.91	0.463	0.0002	/	Pass
				-10	3.91	-1.415	-0.0005	/	Pass
				0	3.91	1.033	0.0004	/	Pass
				10	3.91	-4.315	-0.0016	/	Pass
30				3.91	-2.434	-0.0009	/	Pass	
40				3.91	2.023	0.0008	/	Pass	
50	3.91	-3.348	-0.0013	/	Pass				
16QAM	2572.5	25	0	20	3.5	-4.723	-0.0018	/	Pass
					3.91	0.936	0.0004	/	Pass
					4.35	-4.614	-0.0018	/	Pass
				-30	3.91	-0.217	-0.0001	/	Pass
				-20	3.91	-0.030	0.0000	/	Pass



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				-10	3.91	-5.164	-0.0020	/	Pass			
				0	3.91	-0.698	-0.0003	/	Pass			
				10	3.91	-0.357	-0.0001	/	Pass			
				30	3.91	-5.390	-0.0021	/	Pass			
				40	3.91	1.124	0.0004	/	Pass			
				50	3.91	-1.205	-0.0005	/	Pass			
	2595	25	0	20	3.5	3.707	0.0014	/	Pass			
					3.91	1.604	0.0006	/	Pass			
					4.35	-1.598	-0.0006	/	Pass			
				-30	3.91	-2.203	-0.0008	/	Pass			
				-20	3.91	1.837	0.0007	/	Pass			
				-10	3.91	0.663	0.0003	/	Pass			
				0	3.91	3.294	0.0013	/	Pass			
				10	3.91	2.847	0.0011	/	Pass			
				30	3.91	-1.890	-0.0007	/	Pass			
				40	3.91	-2.901	-0.0011	/	Pass			
				50	3.91	2.552	0.0010	/	Pass			
				2617.5	25	0	20	3.5	-0.790	-0.0003	/	Pass
								3.91	-2.617	-0.0010	/	Pass
								4.35	1.008	0.0004	/	Pass
-30	3.91	1.123	0.0004				/	Pass				
-20	3.91	-4.848	-0.0019				/	Pass				
-10	3.91	0.191	0.0001				/	Pass				
0	3.91	-2.274	-0.0009				/	Pass				
10	3.91	-2.408	-0.0009				/	Pass				
30	3.91	-2.131	-0.0008				/	Pass				
40	3.91	0.895	0.0003				/	Pass				
64QAM	2572.5	25	0	20	3.5	-4.513	-0.0018	/	Pass			
					3.91	-3.627	-0.0014	/	Pass			
					4.35	-5.759	-0.0022	/	Pass			
				-30	3.91	-6.140	-0.0024	/	Pass			
				-20	3.91	-4.635	-0.0018	/	Pass			
				-10	3.91	-3.922	-0.0015	/	Pass			
				0	3.91	-2.507	-0.0010	/	Pass			
				10	3.91	-0.328	-0.0001	/	Pass			
				30	3.91	0.083	0.0000	/	Pass			
				40	3.91	-0.713	-0.0003	/	Pass			
	50	3.91	-4.667	-0.0018	/	Pass						
	2595	25	0	20	3.5	4.558	0.0018	/	Pass			
					3.91	-3.410	-0.0013	/	Pass			
					4.35	1.919	0.0007	/	Pass			
				-30	3.91	2.904	0.0011	/	Pass			
				-20	3.91	-1.720	-0.0007	/	Pass			
				-10	3.91	-1.034	-0.0004	/	Pass			
				0	3.91	-2.643	-0.0010	/	Pass			
				10	3.91	3.559	0.0014	/	Pass			
				30	3.91	-2.781	-0.0011	/	Pass			
40				3.91	3.615	0.0014	/	Pass				
50	3.91	2.660	0.0010	/	Pass							



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	2617.5	25	0	20	3.5	-0.006	0.0000	/	Pass
					3.91	-3.374	-0.0013	/	Pass
					4.35	-0.569	-0.0002	/	Pass
				-30	3.91	0.725	0.0003	/	Pass
				-20	3.91	-3.855	-0.0015	/	Pass
				-10	3.91	-5.360	-0.0020	/	Pass
				0	3.91	-3.778	-0.0014	/	Pass
				10	3.91	-3.694	-0.0014	/	Pass
				30	3.91	-4.410	-0.0017	/	Pass
				40	3.91	-0.242	-0.0001	/	Pass
	50	3.91	-2.001	-0.0008	/	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	3.5	-5.568	-0.0022	/	Pass			
					3.91	-5.723	-0.0022	/	Pass			
					4.35	-0.926	-0.0004	/	Pass			
				-30	3.91	-5.538	-0.0022	/	Pass			
					-20	3.91	-4.362	-0.0017	/	Pass		
						3.91	-1.716	-0.0007	/	Pass		
				0	3.91	-6.110	-0.0024	/	Pass			
					3.91	-2.255	-0.0009	/	Pass			
				3.91	-0.657	-0.0003	/	Pass				
				3.91	-0.467	-0.0002	/	Pass				
				3.91	-4.379	-0.0017	/	Pass				
				2595	50	0	20	3.5	-0.040	0.0000	/	Pass
								3.91	-4.239	-0.0016	/	Pass
								4.35	-0.112	0.0000	/	Pass
							-30	3.91	-4.930	-0.0019	/	Pass
	-20	3.91	-3.947					-0.0015	/	Pass		
		3.91	1.765					0.0007	/	Pass		
	0	3.91	-3.976				-0.0015	/	Pass			
		3.91	1.196				0.0005	/	Pass			
	3.91	-3.349	-0.0013				/	Pass				
	3.91	-5.334	-0.0021				/	Pass				
	3.91	-3.802	-0.0015				/	Pass				
	2615	50	0				20	3.5	-2.803	-0.0011	/	Pass
								3.91	1.077	0.0004	/	Pass
								4.35	-3.391	-0.0013	/	Pass
							-30	3.91	-2.567	-0.0010	/	Pass
				-20	3.91	-3.945		-0.0015	/	Pass		
					3.91	-3.126		-0.0012	/	Pass		
				0	3.91	1.718	0.0007	/	Pass			
					3.91	-2.403	-0.0009	/	Pass			
3.91				-0.574	-0.0002	/	Pass					
3.91				-3.598	-0.0014	/	Pass					
3.91				1.420	0.0005	/	Pass					
16QAM				2575	50	0	20	3.5	-0.560	-0.0002	/	Pass
								3.91	-3.271	-0.0013	/	Pass
								4.35	0.849	0.0003	/	Pass
							-30	3.91	-5.366	-0.0021	/	Pass
	3.91	-1.915	-0.0007					/	Pass			
	-10	3.91	-4.460				-0.0017	/	Pass			
		3.91	0.266				0.0001	/	Pass			



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64QAM	2595	50	0	10	3.91	-1.428	-0.0006	/	Pass			
				30	3.91	-1.017	-0.0004	/	Pass			
				40	3.91	-4.953	-0.0019	/	Pass			
				50	3.91	0.993	0.0004	/	Pass			
				20	3.5	1.884	0.0007	/	Pass			
					3.91	-2.765	-0.0011	/	Pass			
					4.35	-0.387	-0.0001	/	Pass			
				-30	3.91	-3.919	-0.0015	/	Pass			
				-20	3.91	-4.586	-0.0018	/	Pass			
				-10	3.91	-0.420	-0.0002	/	Pass			
				0	3.91	-4.453	-0.0017	/	Pass			
				10	3.91	0.705	0.0003	/	Pass			
				30	3.91	0.168	0.0001	/	Pass			
				40	3.91	0.003	0.0000	/	Pass			
	50	3.91	0.372	0.0001	/	Pass						
	2615	50	0	20	3.5	0.537	0.0002	/	Pass			
					3.91	1.247	0.0005	/	Pass			
					4.35	1.018	0.0004	/	Pass			
				-30	3.91	-4.160	-0.0016	/	Pass			
				-20	3.91	0.939	0.0004	/	Pass			
				-10	3.91	-1.948	-0.0007	/	Pass			
				0	3.91	-4.536	-0.0017	/	Pass			
				10	3.91	-3.360	-0.0013	/	Pass			
				30	3.91	1.396	0.0005	/	Pass			
				40	3.91	-0.487	-0.0002	/	Pass			
				50	3.91	1.590	0.0006	/	Pass			
				2575	50	0	20	3.5	-4.388	-0.0017	/	Pass
								3.91	-3.349	-0.0013	/	Pass
4.35								-5.417	-0.0021	/	Pass	
-30	3.91	-5.136	-0.0020				/	Pass				
-20	3.91	0.065	0.0000				/	Pass				
-10	3.91	-4.421	-0.0017				/	Pass				
0	3.91	-0.994	-0.0004				/	Pass				
10	3.91	-5.480	-0.0021				/	Pass				
30	3.91	-5.813	-0.0023				/	Pass				
40	3.91	-3.889	-0.0015				/	Pass				
50	3.91	0.124	0.0000				/	Pass				
2595	50	0	20				3.5	1.078	0.0004	/	Pass	
							3.91	-5.373	-0.0021	/	Pass	
							4.35	0.332	0.0001	/	Pass	
			-30	3.91	-3.537	-0.0014	/	Pass				
			-20	3.91	1.742	0.0007	/	Pass				
			-10	3.91	-2.223	-0.0009	/	Pass				
			0	3.91	0.748	0.0003	/	Pass				
			10	3.91	-3.175	-0.0012	/	Pass				
			30	3.91	0.493	0.0002	/	Pass				
			40	3.91	-3.386	-0.0013	/	Pass				
			50	3.91	-2.466	-0.0010	/	Pass				
			2615	50	0	20	3.5	-3.657	-0.0014	/	Pass	
							3.91	1.519	0.0006	/	Pass	



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				4.35	-0.697	-0.0003	/	Pass
			-30	3.91	-2.970	-0.0011	/	Pass
			-20	3.91	-0.534	-0.0002	/	Pass
			-10	3.91	1.875	0.0007	/	Pass
			0	3.91	0.341	0.0001	/	Pass
			10	3.91	-4.262	-0.0016	/	Pass
			30	3.91	0.293	0.0001	/	Pass
			40	3.91	-2.506	-0.0010	/	Pass
			50	3.91	-3.109	-0.0012	/	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	3.5	-5.940	-0.0023	/	Pass	
					3.91	-5.625	-0.0022	/	Pass	
					4.35	-1.010	-0.0004	/	Pass	
				-30	3.91	-2.704	-0.0010	/	Pass	
					-20	3.91	-6.217	-0.0024	/	Pass
						-10	3.91	-6.059	-0.0024	/
				0	3.91	-0.028	0.0000	/	Pass	
				10	3.91	-1.433	-0.0006	/	Pass	
				30	3.91	-1.362	-0.0005	/	Pass	
	40	3.91	-4.707	-0.0018	/	Pass				
	50	3.91	-5.316	-0.0021	/	Pass				
	2595	75	0	20	3.5	-4.871	-0.0019	/	Pass	
					3.91	-4.777	-0.0018	/	Pass	
					4.35	-5.459	-0.0021	/	Pass	
				-30	3.91	-0.385	-0.0001	/	Pass	
					-20	3.91	-6.217	-0.0024	/	Pass
						-10	3.91	-4.209	-0.0016	/
				0	3.91	1.059	0.0004	/	Pass	
				10	3.91	-2.933	-0.0011	/	Pass	
				30	3.91	0.932	0.0004	/	Pass	
	40	3.91	1.322	0.0005	/	Pass				
	50	3.91	-4.770	-0.0018	/	Pass				
	2612.5	75	0	20	3.5	-4.567	-0.0017	/	Pass	
					3.91	-4.280	-0.0016	/	Pass	
					4.35	-2.895	-0.0011	/	Pass	
				-30	3.91	-3.506	-0.0013	/	Pass	
					-20	3.91	-3.754	-0.0014	/	Pass
-10						3.91	0.230	0.0001	/	Pass
0				3.91	-4.522	-0.0017	/	Pass		
10				3.91	0.072	0.0000	/	Pass		
30				3.91	-0.088	0.0000	/	Pass		
40	3.91	-4.738	-0.0018	/	Pass					
50	3.91	-3.969	-0.0015	/	Pass					
16QAM	2577.5	75	0	20	3.5	-0.542	-0.0002	/	Pass	
					3.91	-4.634	-0.0018	/	Pass	
					4.35	-6.775	-0.0026	/	Pass	
				-30	3.91	-0.845	-0.0003	/	Pass	
					-20	3.91	-0.892	-0.0003	/	Pass
						-10	3.91	-0.164	-0.0001	/
0	3.91	-2.032	-0.0008	/	Pass					



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64QAM	2595	75	0	10	3.91	-3.858	-0.0015	/	Pass			
				30	3.91	-0.390	-0.0002	/	Pass			
				40	3.91	-1.674	-0.0006	/	Pass			
				50	3.91	-0.938	-0.0004	/	Pass			
				20	3.5	-0.600	-0.0002	/	Pass			
					3.91	0.568	0.0002	/	Pass			
					4.35	0.605	0.0002	/	Pass			
				-30	3.91	-3.155	-0.0012	/	Pass			
				-20	3.91	-0.586	-0.0002	/	Pass			
				-10	3.91	-3.683	-0.0014	/	Pass			
				0	3.91	-4.067	-0.0016	/	Pass			
				10	3.91	1.116	0.0004	/	Pass			
				30	3.91	-3.862	-0.0015	/	Pass			
				40	3.91	-4.914	-0.0019	/	Pass			
	50	3.91	-4.052	-0.0016	/	Pass						
	2612.5	75	0	20	3.5	-0.816	-0.0003	/	Pass			
					3.91	-0.334	-0.0001	/	Pass			
					4.35	-2.004	-0.0008	/	Pass			
				-30	3.91	-4.860	-0.0019	/	Pass			
				-20	3.91	-0.176	-0.0001	/	Pass			
				-10	3.91	-4.861	-0.0019	/	Pass			
				0	3.91	-4.079	-0.0016	/	Pass			
				10	3.91	-4.008	-0.0015	/	Pass			
				30	3.91	0.144	0.0001	/	Pass			
				40	3.91	0.768	0.0003	/	Pass			
				50	3.91	1.063	0.0004	/	Pass			
				2577.5	75	0	20	3.5	-1.501	-0.0006	/	Pass
								3.91	-5.359	-0.0021	/	Pass
4.35								-0.104	0.0000	/	Pass	
-30	3.91	-1.093	-0.0004				/	Pass				
-20	3.91	-5.576	-0.0022				/	Pass				
-10	3.91	-5.066	-0.0020				/	Pass				
0	3.91	-0.277	-0.0001				/	Pass				
10	3.91	-5.463	-0.0021				/	Pass				
30	3.91	-1.499	-0.0006				/	Pass				
40	3.91	-4.257	-0.0017				/	Pass				
50	3.91	-1.024	-0.0004				/	Pass				
2595	75	0	20				3.5	-3.580	-0.0014	/	Pass	
							3.91	-2.617	-0.0010	/	Pass	
							4.35	-5.871	-0.0023	/	Pass	
			-30	3.91	-3.599	-0.0014	/	Pass				
			-20	3.91	0.211	0.0001	/	Pass				
			-10	3.91	-0.119	0.0000	/	Pass				
			0	3.91	-4.492	-0.0017	/	Pass				
			10	3.91	-0.519	-0.0002	/	Pass				
			30	3.91	1.007	0.0004	/	Pass				
			40	3.91	0.881	0.0003	/	Pass				
			50	3.91	-0.966	-0.0004	/	Pass				
			2612.5	75	0	20	3.5	-0.001	0.0000	/	Pass	
							3.91	-4.190	-0.0016	/	Pass	



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				4.35	-3.968	-0.0015	/	Pass
			-30	3.91	-3.337	-0.0013	/	Pass
			-20	3.91	-0.152	-0.0001	/	Pass
			-10	3.91	0.077	0.0000	/	Pass
			0	3.91	-0.335	-0.0001	/	Pass
			10	3.91	1.133	0.0004	/	Pass
			30	3.91	-3.786	-0.0014	/	Pass
			40	3.91	-3.228	-0.0012	/	Pass
			50	3.91	-2.994	-0.0011	/	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	3.5	-5.281	-0.0020	/	Pass	
					3.91	-4.354	-0.0017	/	Pass	
					4.35	-0.233	-0.0001	/	Pass	
				-30	3.91	-5.151	-0.0020	/	Pass	
					-20	3.91	-4.714	-0.0018	/	Pass
						-10	3.91	-4.117	-0.0016	/
				0	3.91	0.228	0.0001	/	Pass	
					10	3.91	-4.608	-0.0018	/	Pass
				30	3.91	-4.581	-0.0018	/	Pass	
	40	3.91	-0.702	-0.0003	/	Pass				
	50	3.91	-4.906	-0.0019	/	Pass				
	2595	100	0	20	3.5	0.349	0.0001	/	Pass	
					3.91	-5.421	-0.0021	/	Pass	
					4.35	-3.832	-0.0015	/	Pass	
				-30	3.91	-3.643	-0.0014	/	Pass	
					-20	3.91	-0.318	-0.0001	/	Pass
						-10	3.91	-4.501	-0.0017	/
				0	3.91	1.647	0.0006	/	Pass	
					10	3.91	-1.419	-0.0005	/	Pass
				30	3.91	-4.814	-0.0019	/	Pass	
	40	3.91	1.413	0.0005	/	Pass				
	50	3.91	0.555	0.0002	/	Pass				
	2610	100	0	20	3.5	-1.364	-0.0005	/	Pass	
					3.91	0.651	0.0002	/	Pass	
					4.35	-3.724	-0.0014	/	Pass	
				-30	3.91	-4.907	-0.0019	/	Pass	
					-20	3.91	-3.553	-0.0014	/	Pass
-10						3.91	2.203	0.0008	/	Pass
0				3.91	1.048	0.0004	/	Pass		
				10	3.91	1.878	0.0007	/	Pass	
30				3.91	2.056	0.0008	/	Pass		
40	3.91	-3.021	-0.0012	/	Pass					
50	3.91	0.407	0.0002	/	Pass					
16QAM	2580	100	0	20	3.5	-5.005	-0.0019	/	Pass	
					3.91	-5.906	-0.0023	/	Pass	
					4.35	0.921	0.0004	/	Pass	
				-30	3.91	-1.401	-0.0005	/	Pass	
					-20	3.91	0.573	0.0002	/	Pass
				-10	3.91	-4.900	-0.0019	/	Pass	
0	3.91	-4.771	-0.0018	/	Pass					



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64QAM	2595	100	0	10	3.91	0.672	0.0003	/	Pass			
				30	3.91	-4.130	-0.0016	/	Pass			
				40	3.91	0.536	0.0002	/	Pass			
				50	3.91	-4.362	-0.0017	/	Pass			
				20	3.5	0.804	0.0003	/	Pass			
					3.91	-5.070	-0.0020	/	Pass			
					4.35	-4.675	-0.0018	/	Pass			
				-30	3.91	-4.774	-0.0018	/	Pass			
				-20	3.91	-4.881	-0.0019	/	Pass			
				-10	3.91	0.285	0.0001	/	Pass			
				0	3.91	-4.433	-0.0017	/	Pass			
				10	3.91	-5.755	-0.0022	/	Pass			
				30	3.91	0.211	0.0001	/	Pass			
				40	3.91	-0.017	0.0000	/	Pass			
	50	3.91	0.168	0.0001	/	Pass						
	2610	100	0	20	3.5	-2.812	-0.0011	/	Pass			
					3.91	-2.501	-0.0010	/	Pass			
					4.35	-2.846	-0.0011	/	Pass			
				-30	3.91	-4.714	-0.0018	/	Pass			
				-20	3.91	-4.964	-0.0019	/	Pass			
				-10	3.91	0.019	0.0000	/	Pass			
				0	3.91	-3.916	-0.0015	/	Pass			
				10	3.91	-3.592	-0.0014	/	Pass			
				30	3.91	3.106	0.0012	/	Pass			
				40	3.91	-3.587	-0.0014	/	Pass			
				50	3.91	-2.681	-0.0010	/	Pass			
				2580	100	0	20	3.5	0.130	0.0001	/	Pass
								3.91	-4.072	-0.0016	/	Pass
4.35								-1.932	-0.0007	/	Pass	
-30	3.91	-3.736	-0.0014				/	Pass				
-20	3.91	0.495	0.0002				/	Pass				
-10	3.91	-1.349	-0.0005				/	Pass				
0	3.91	-3.771	-0.0015				/	Pass				
10	3.91	0.660	0.0003				/	Pass				
30	3.91	-3.128	-0.0012				/	Pass				
40	3.91	0.661	0.0003				/	Pass				
50	3.91	-4.514	-0.0017				/	Pass				
2595	100	0	20				3.5	-3.455	-0.0013	/	Pass	
							3.91	-4.291	-0.0017	/	Pass	
							4.35	-2.024	-0.0008	/	Pass	
			-30	3.91	-0.010	0.0000	/	Pass				
			-20	3.91	0.255	0.0001	/	Pass				
			-10	3.91	0.176	0.0001	/	Pass				
			0	3.91	0.657	0.0003	/	Pass				
			10	3.91	-5.092	-0.0020	/	Pass				
			30	3.91	0.183	0.0001	/	Pass				
			40	3.91	0.016	0.0000	/	Pass				
			50	3.91	-3.767	-0.0015	/	Pass				
			2610	100	0	20	3.5	-0.714	-0.0003	/	Pass	
							3.91	-2.445	-0.0009	/	Pass	



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				4.35	-0.524	-0.0002	/	Pass
			-30	3.91	-2.980	-0.0011	/	Pass
			-20	3.91	-1.039	-0.0004	/	Pass
			-10	3.91	-2.818	-0.0011	/	Pass
			0	3.91	-3.778	-0.0014	/	Pass
			10	3.91	0.024	0.0000	/	Pass
			30	3.91	-2.587	-0.0010	/	Pass
			40	3.91	0.187	0.0001	/	Pass
			50	3.91	-0.029	0.0000	/	Pass



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band38\_OBW

##### 3.1.1 Test Result

Band: 38 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.574	/	Pass
		2595	25	0	4.590	/	Pass
		2617.5	25	0	4.595	/	Pass
	16QAM	2572.5	25	0	4.573	/	Pass
		2595	25	0	4.573	/	Pass
		2617.5	25	0	4.589	/	Pass
	64QAM	2572.5	25	0	4.578	/	Pass
		2595	25	0	4.572	/	Pass
		2617.5	25	0	4.579	/	Pass
10	QPSK	2575	50	0	9.091	/	Pass
		2595	50	0	9.070	/	Pass
		2615	50	0	9.087	/	Pass
	16QAM	2575	50	0	9.096	/	Pass
		2595	50	0	9.096	/	Pass
		2615	50	0	9.074	/	Pass
	64QAM	2575	50	0	9.084	/	Pass
		2595	50	0	9.084	/	Pass
		2615	50	0	9.087	/	Pass
15	QPSK	2577.5	75	0	13.643	/	Pass
		2595	75	0	13.633	/	Pass
		2612.5	75	0	13.617	/	Pass
	16QAM	2577.5	75	0	13.682	/	Pass
		2595	75	0	13.639	/	Pass
		2612.5	75	0	13.665	/	Pass
	64QAM	2577.5	75	0	13.592	/	Pass
		2595	75	0	13.628	/	Pass
		2612.5	75	0	13.611	/	Pass
20	QPSK	2580	100	0	18.106	/	Pass
		2595	100	0	18.143	/	Pass
		2610	100	0	18.120	/	Pass
	16QAM	2580	100	0	18.185	/	Pass
		2595	100	0	18.155	/	Pass
		2610	100	0	18.146	/	Pass
	64QAM	2580	100	0	18.127	/	Pass
		2595	100	0	18.124	/	Pass
		2610	100	0	18.154	/	Pass



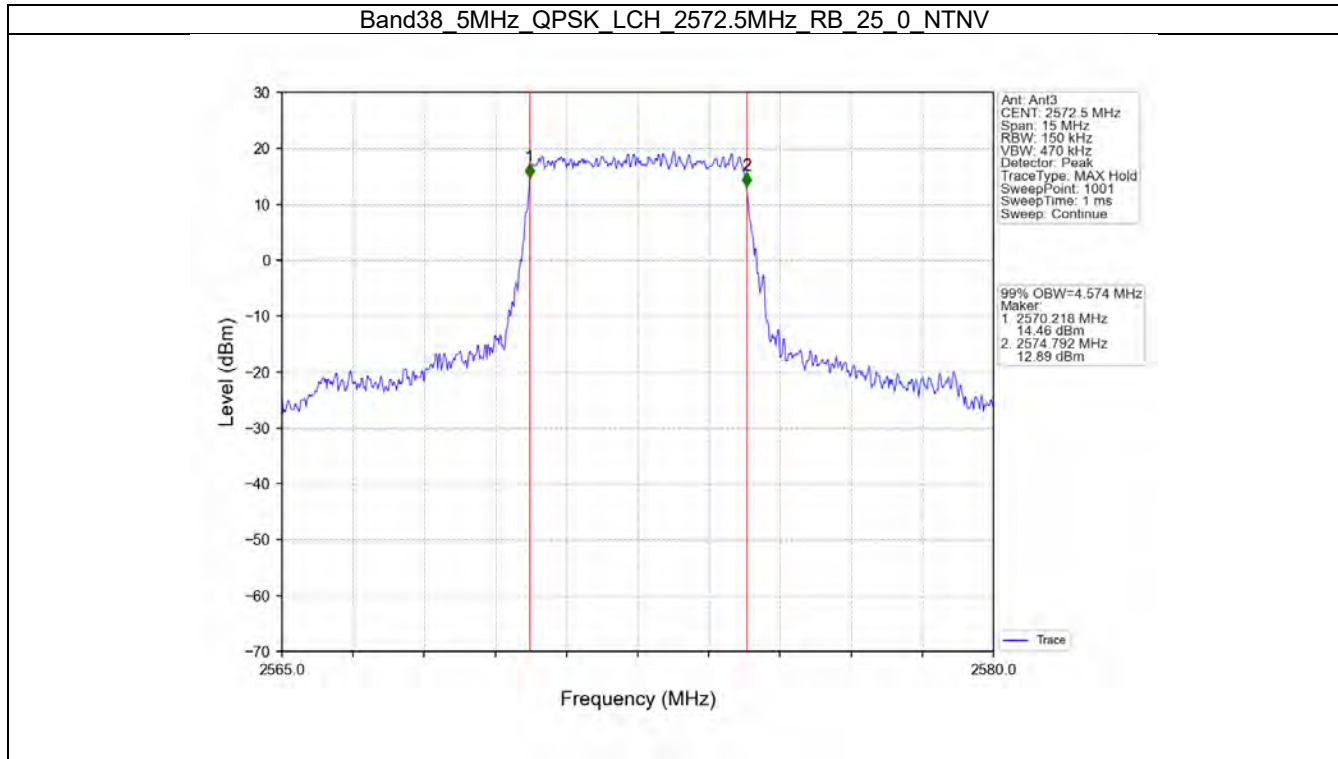
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3.1.2 Test Graph



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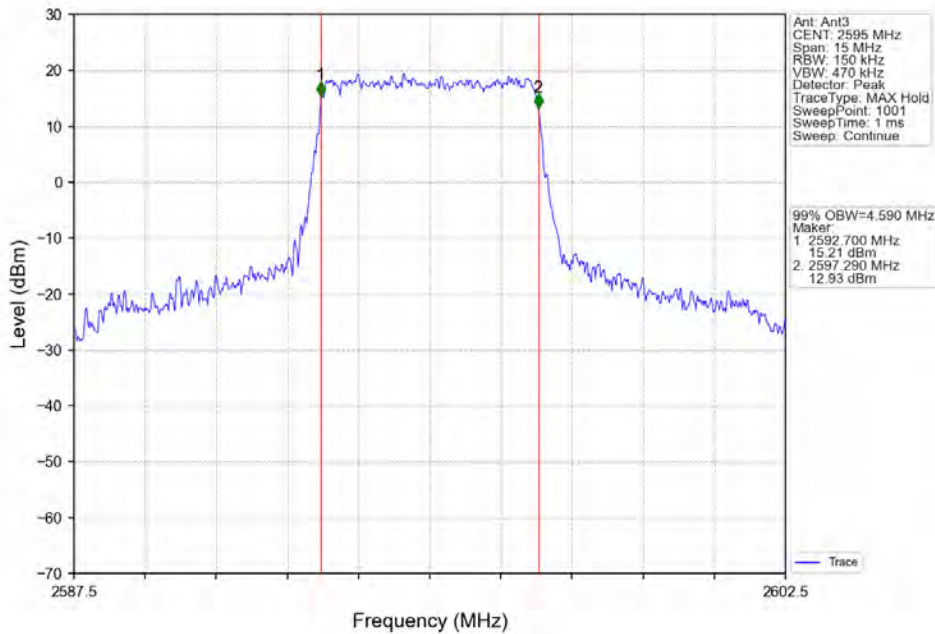


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Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_25\_0\_NTNV



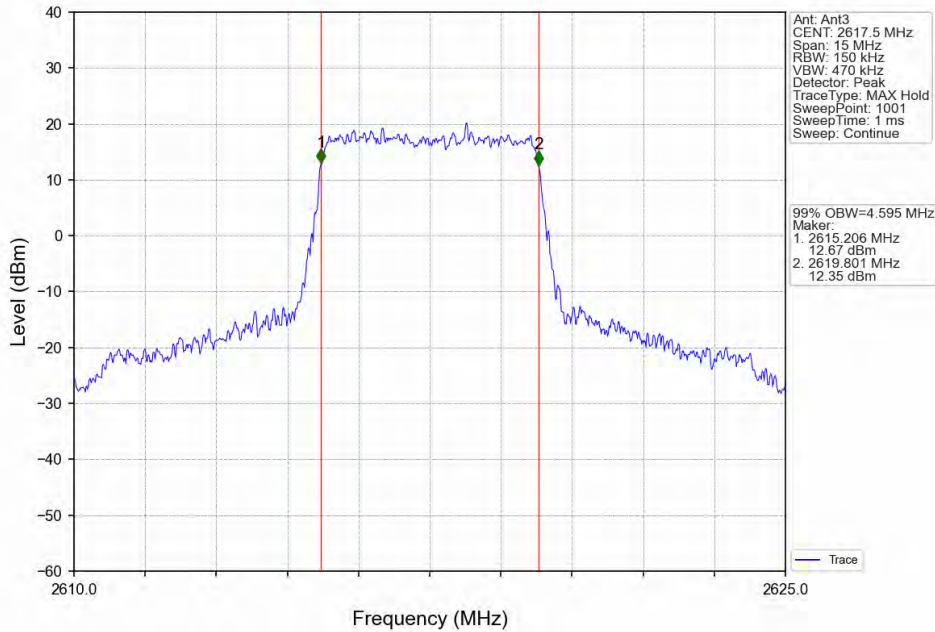
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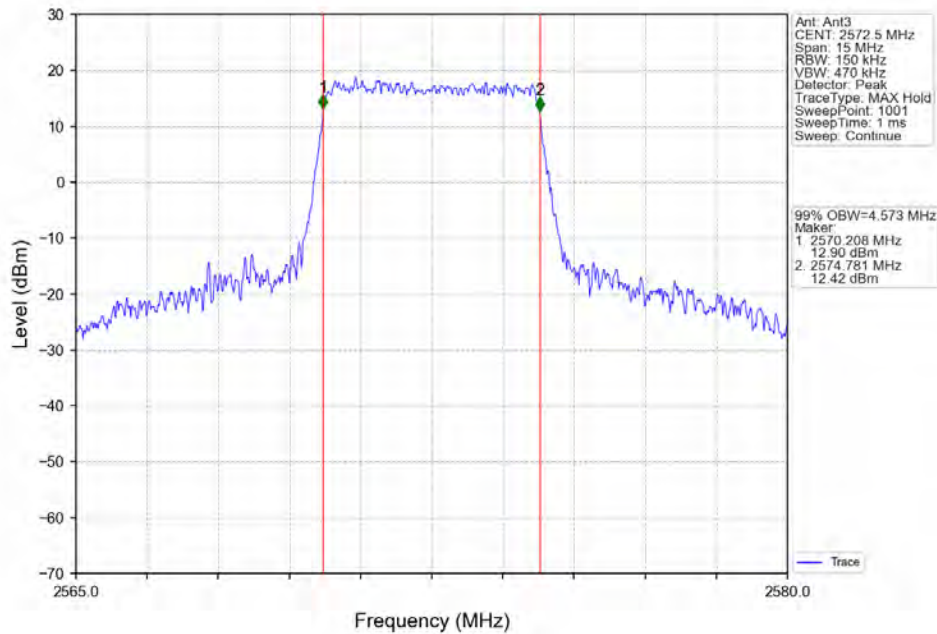
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Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



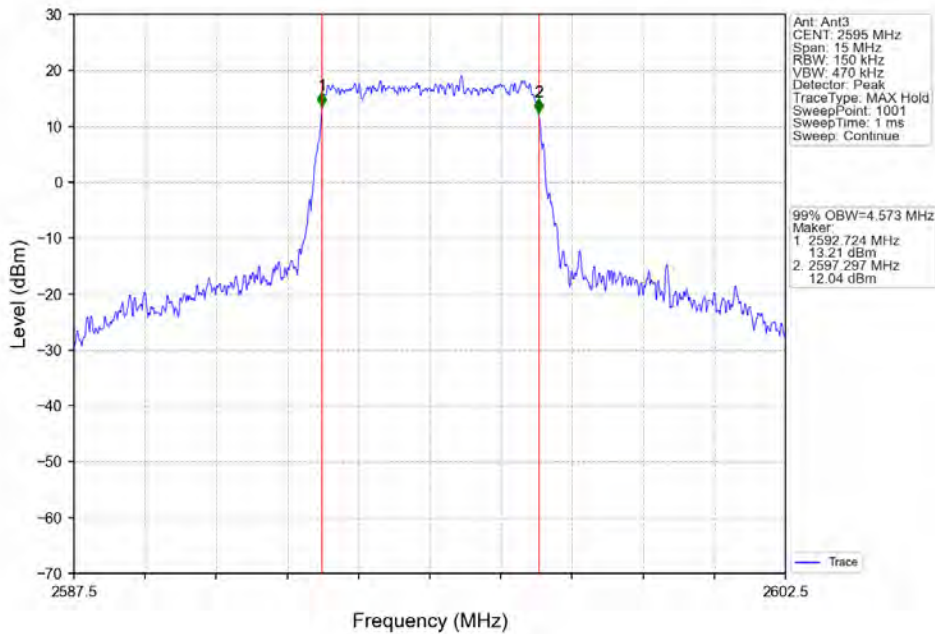
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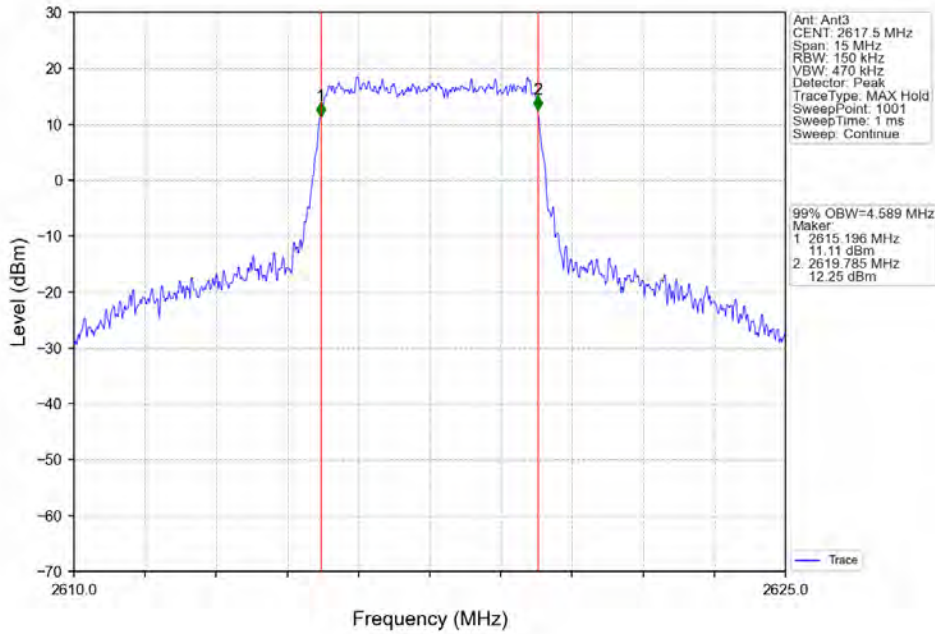


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Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



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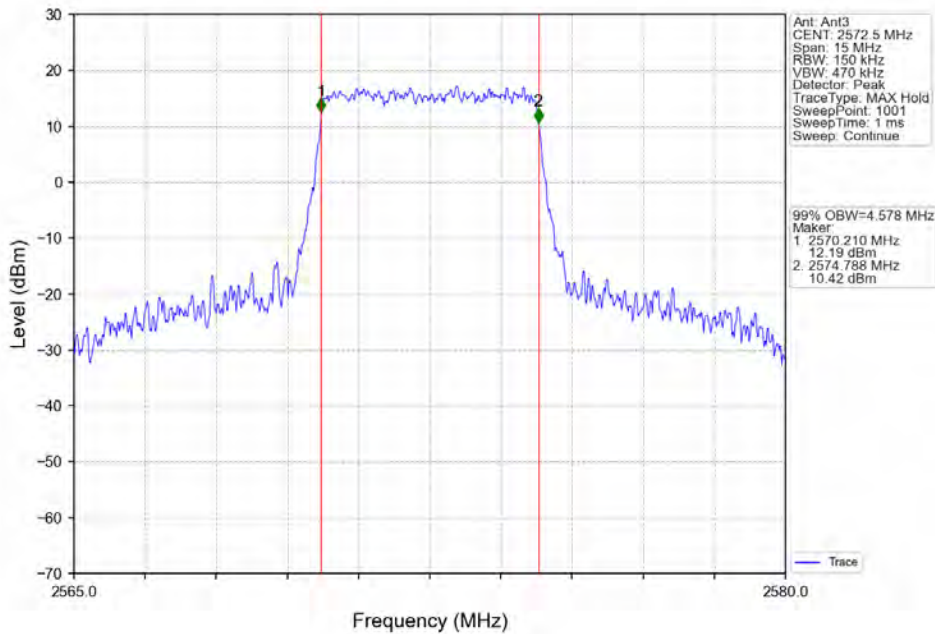


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Band38\_5MHz\_64QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



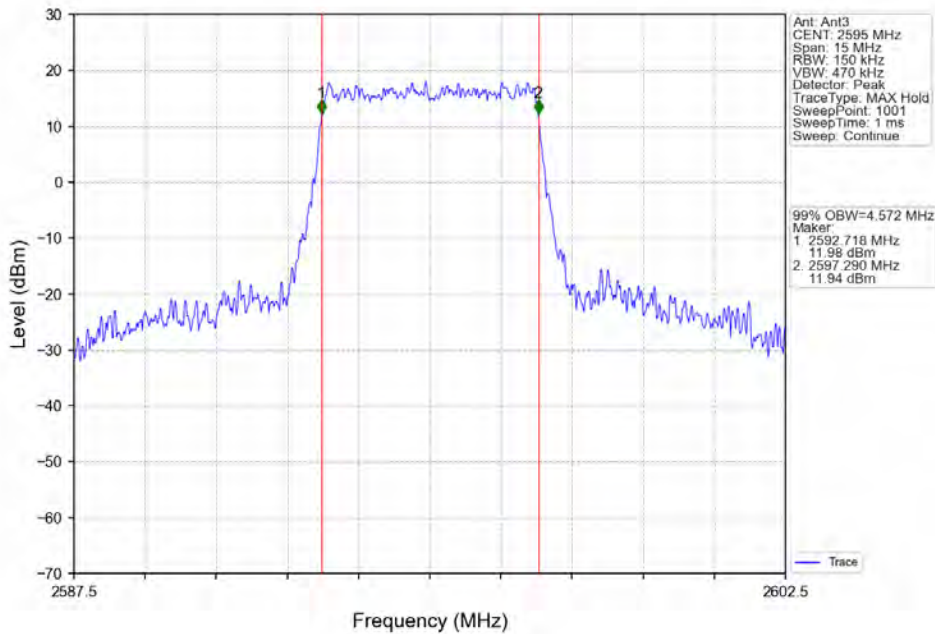
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Band38\_5MHz\_64QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



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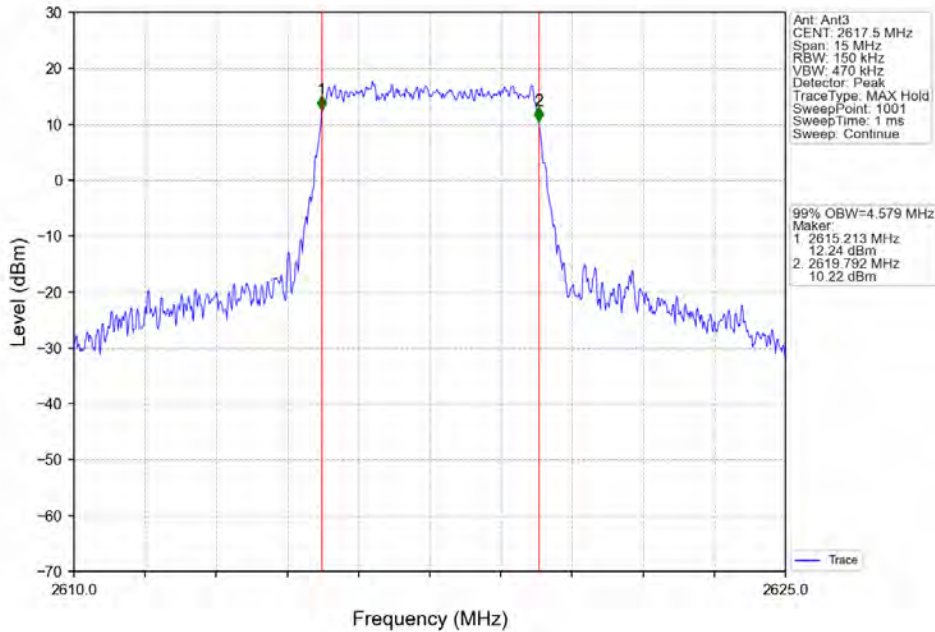
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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



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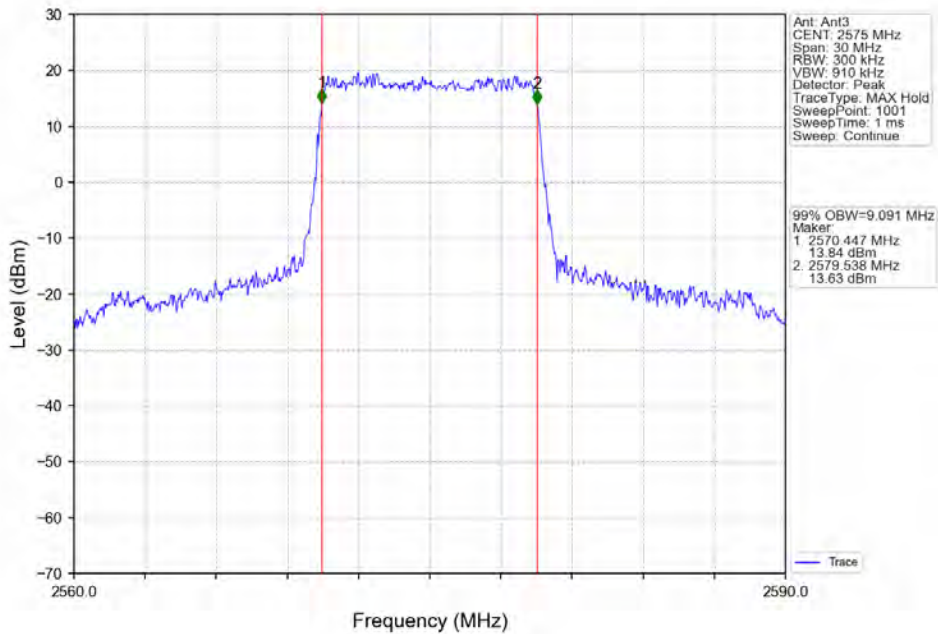
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Band38\_10MHz\_QPSK\_LCH\_2575MHz\_RB\_50\_0\_NTNV



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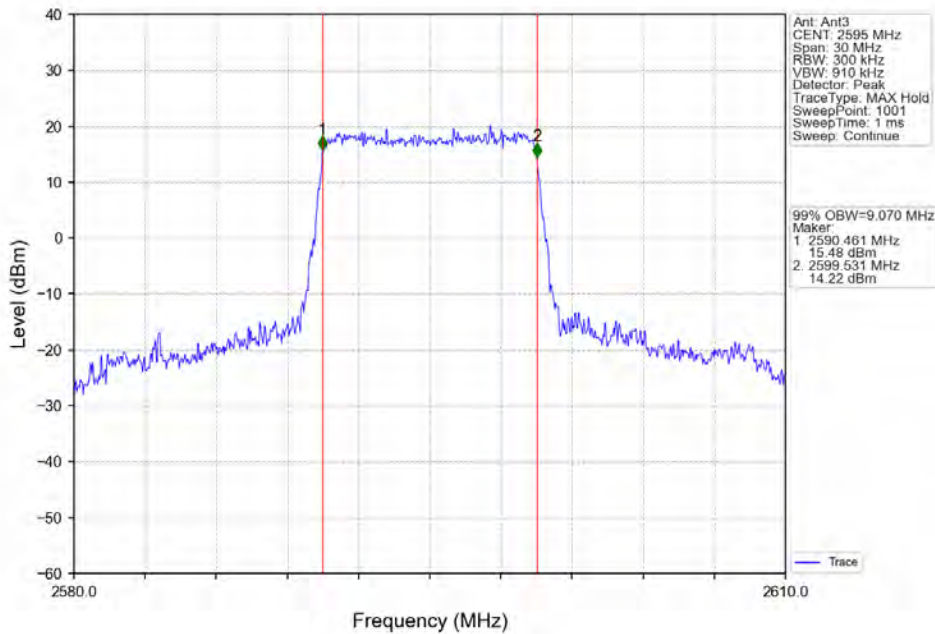
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Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV



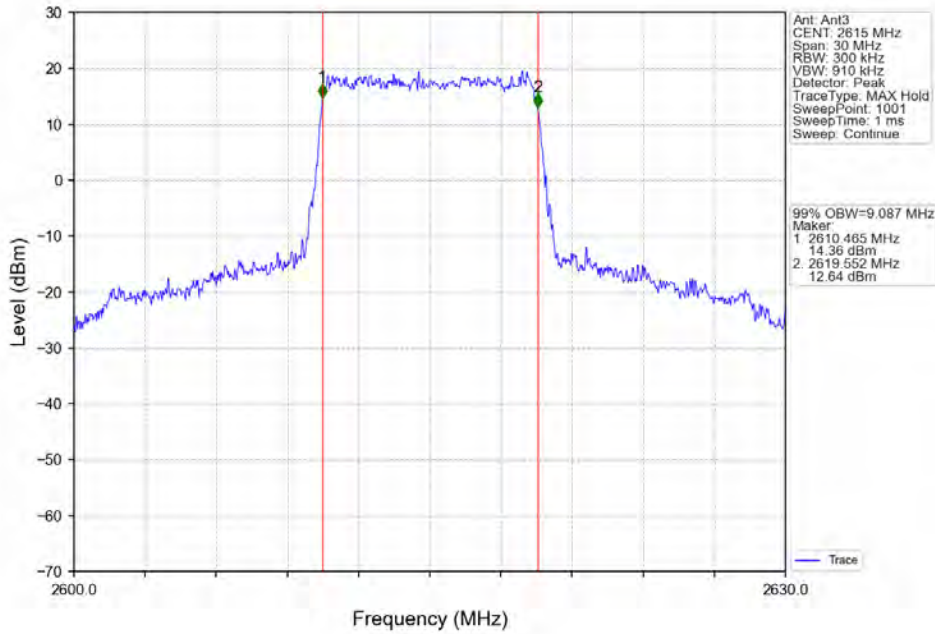
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV

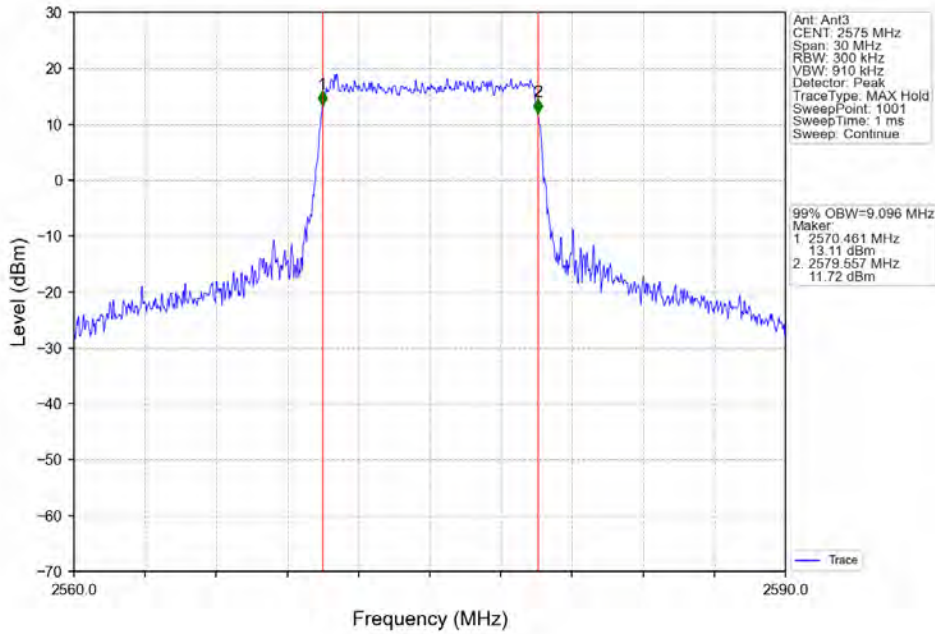


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Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



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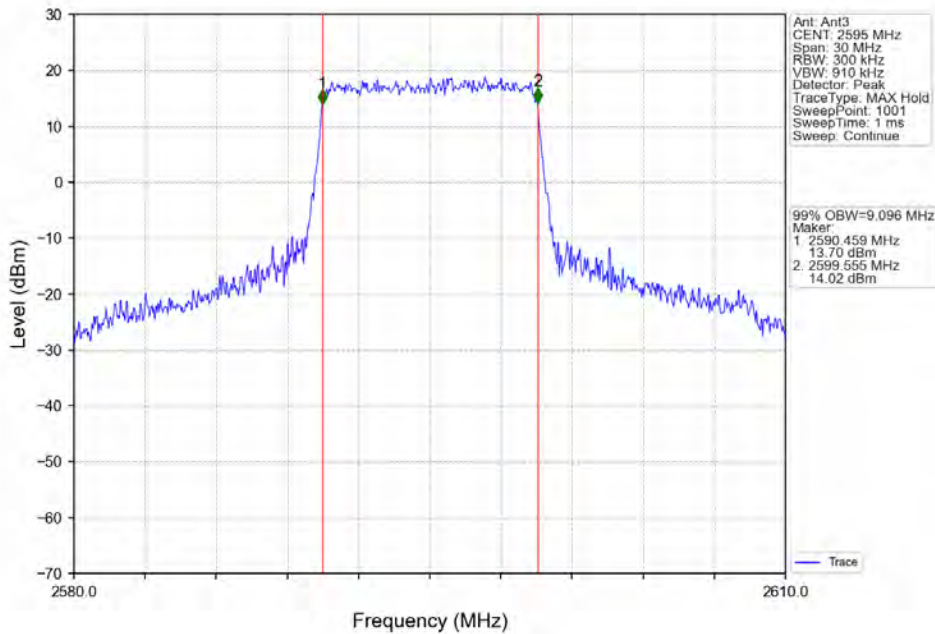
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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



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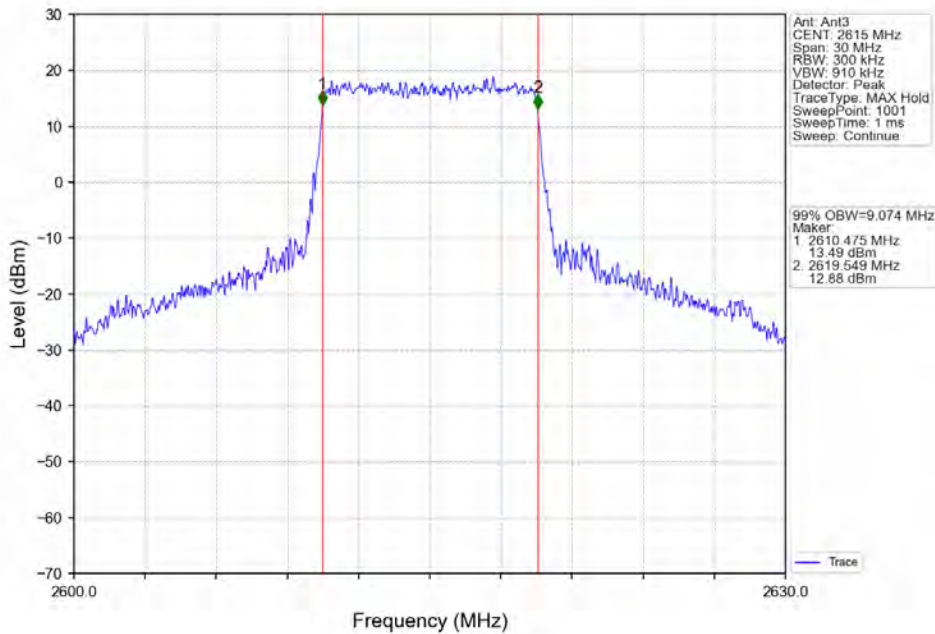
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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



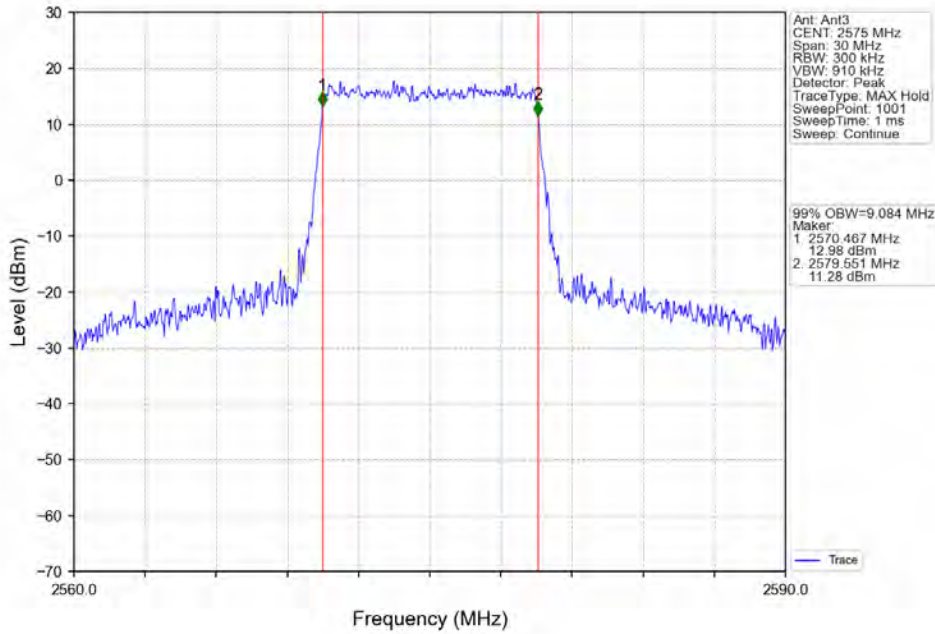
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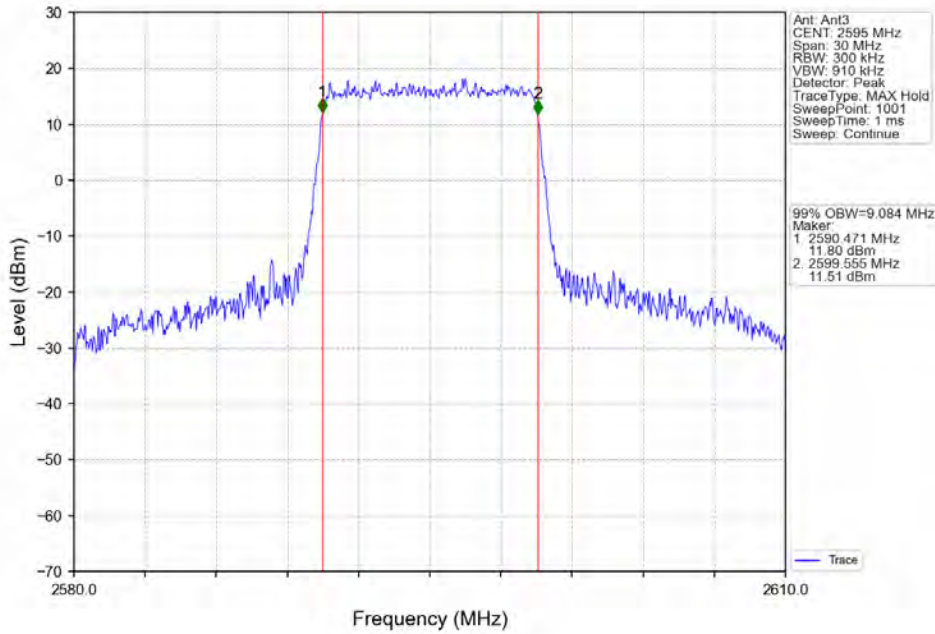
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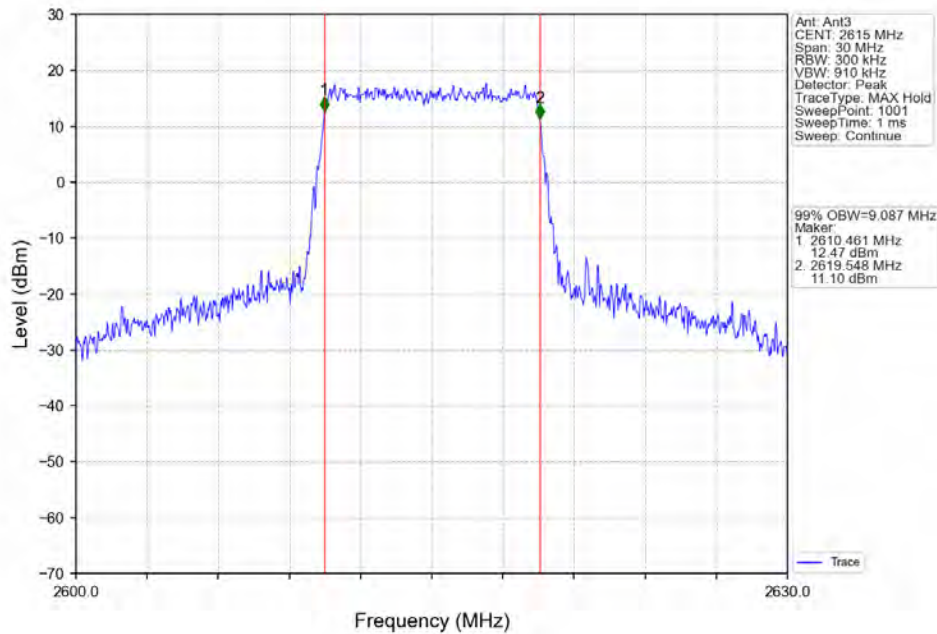


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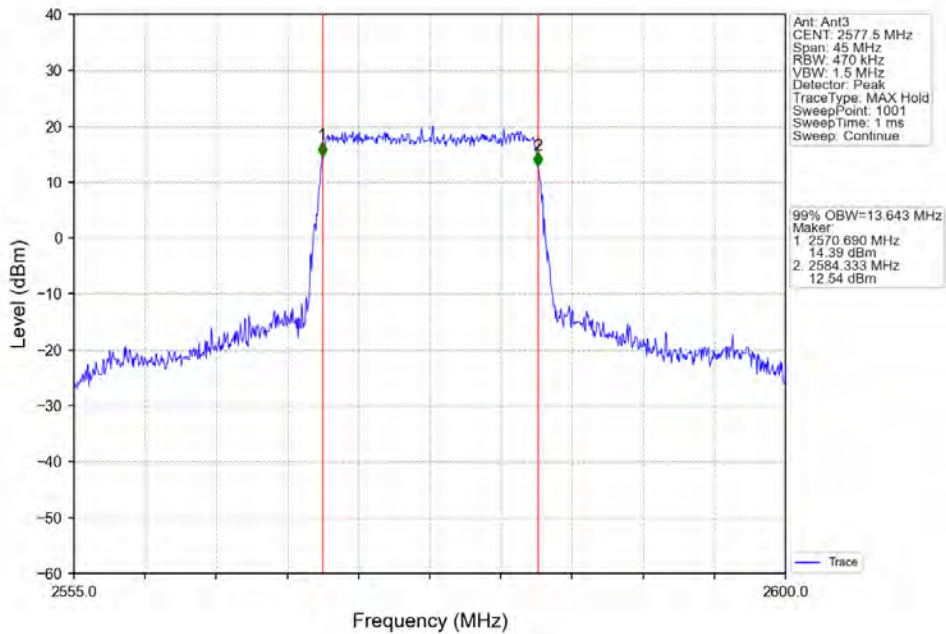


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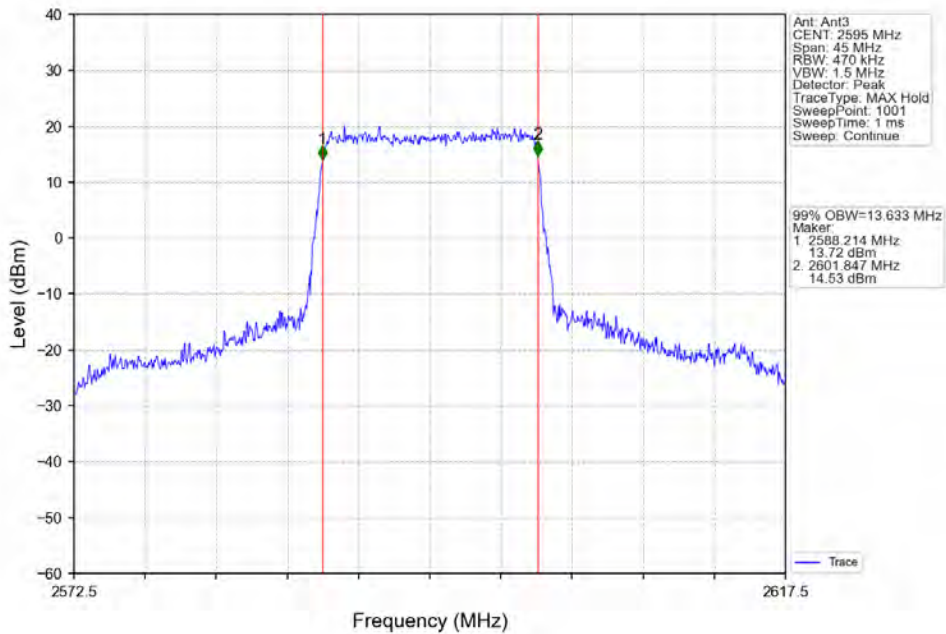


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Band38\_15MHz\_QPSK\_MCH\_2595MHz\_RB\_75\_0\_NTNV



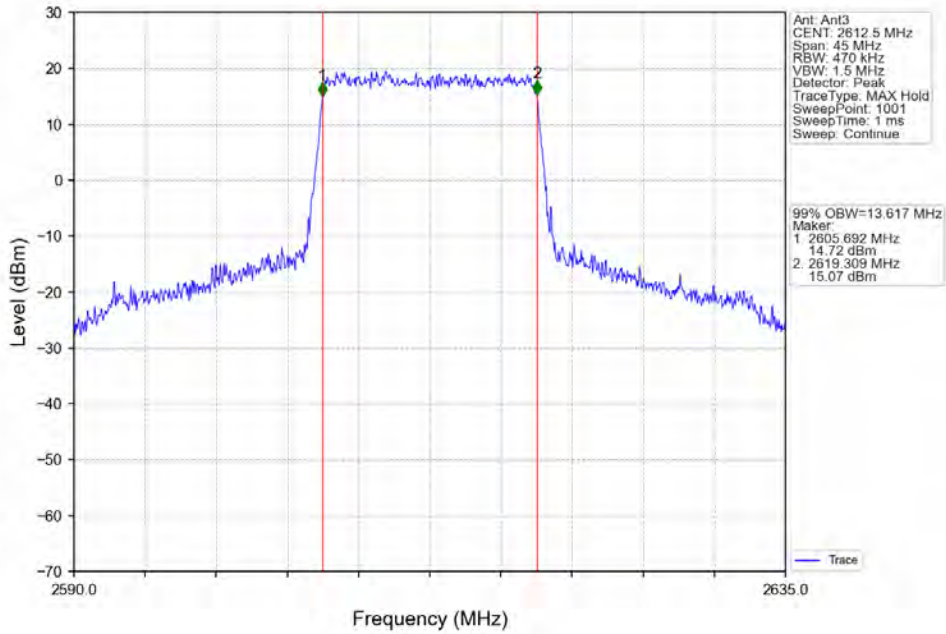
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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



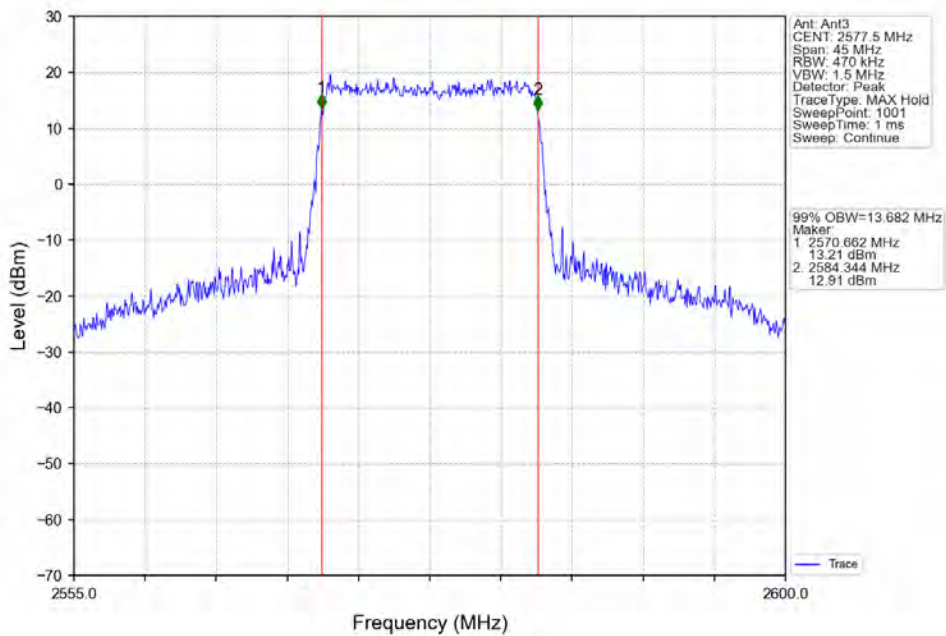
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Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV

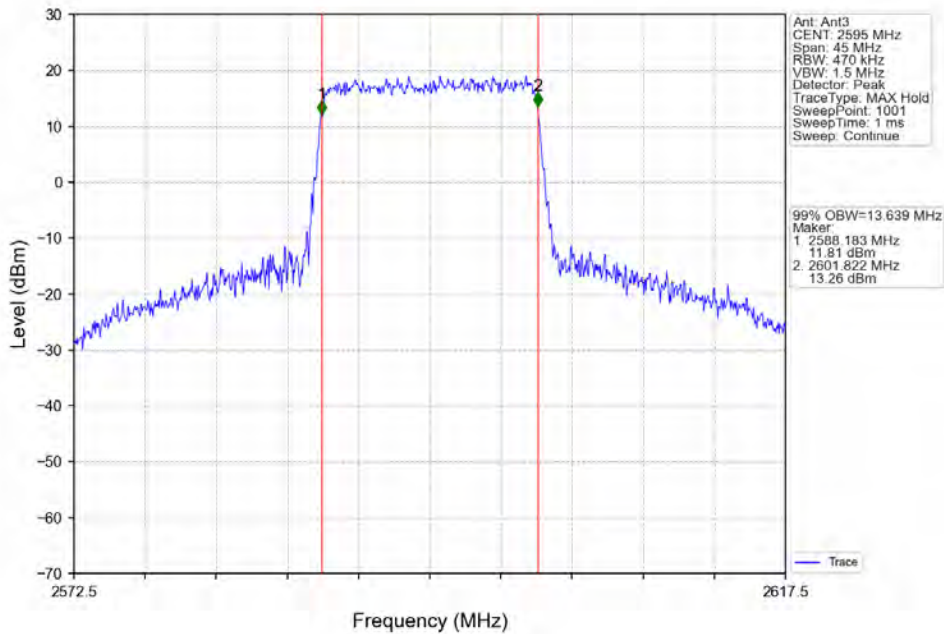


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Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV

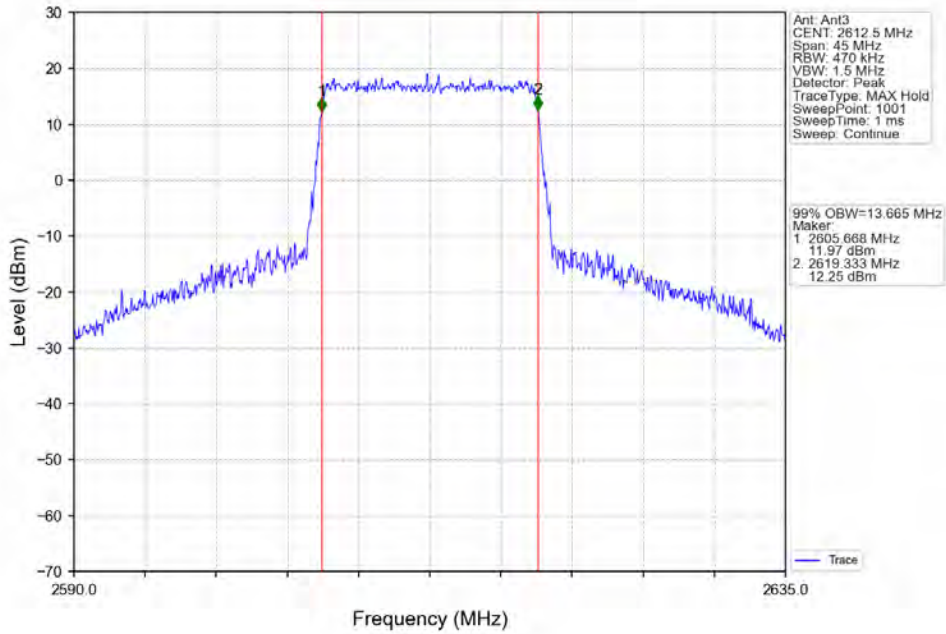


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Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



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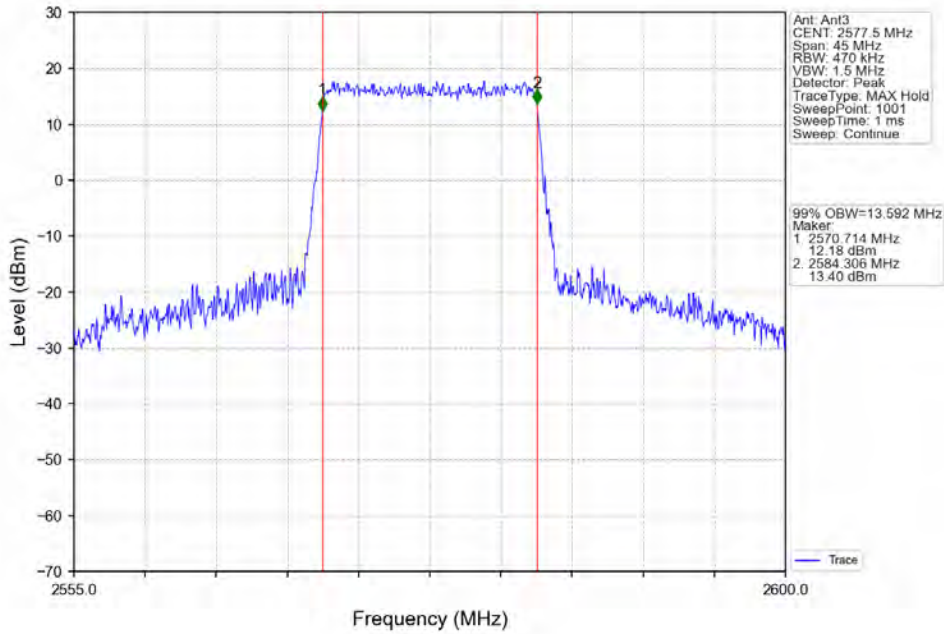
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Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV



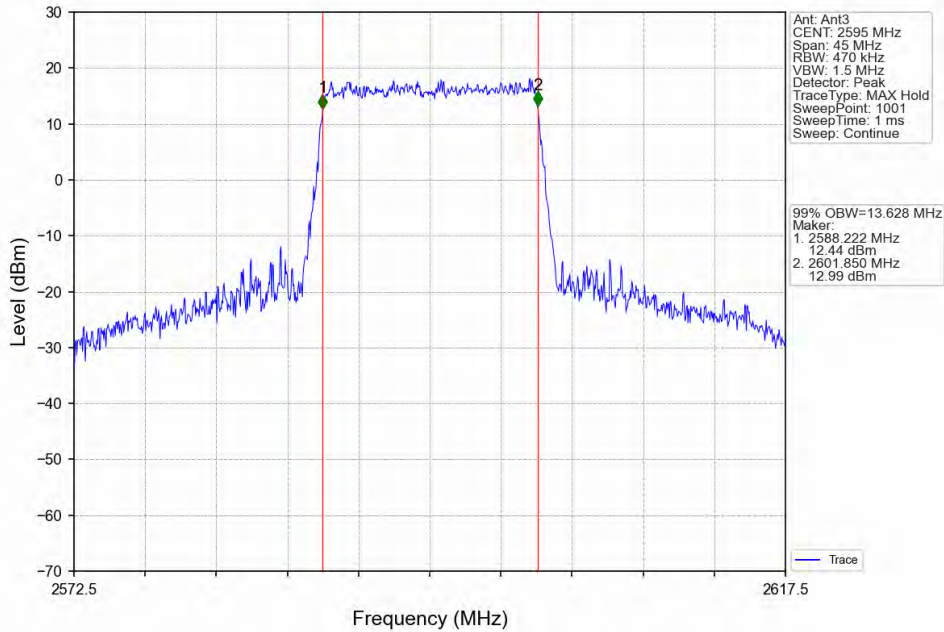
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Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV



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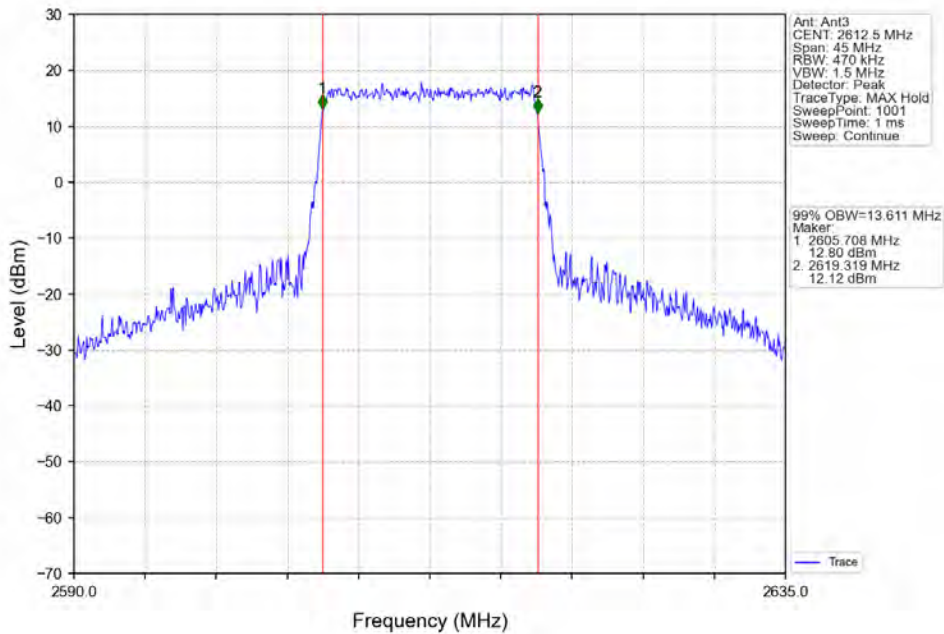
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Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



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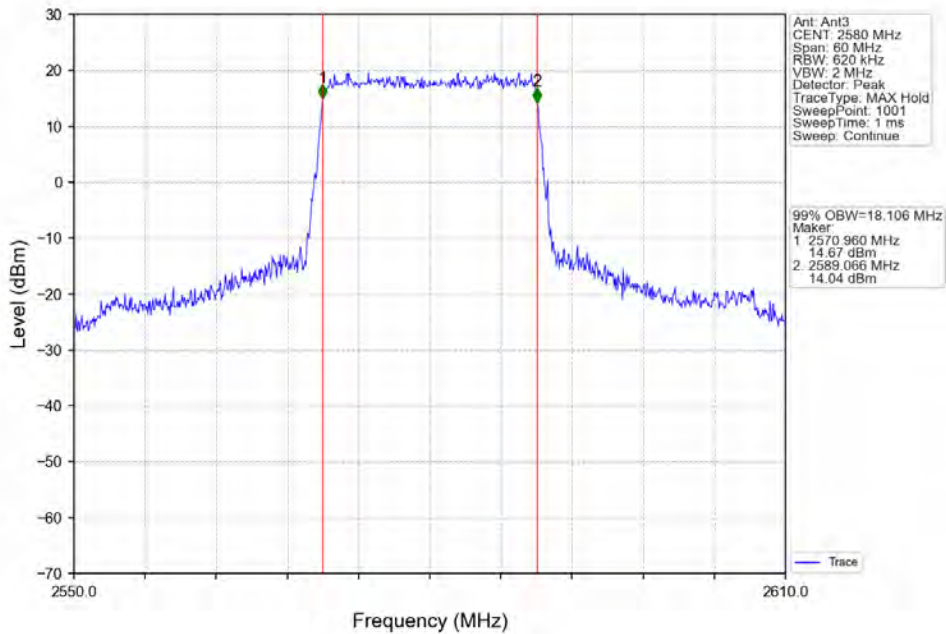
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Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



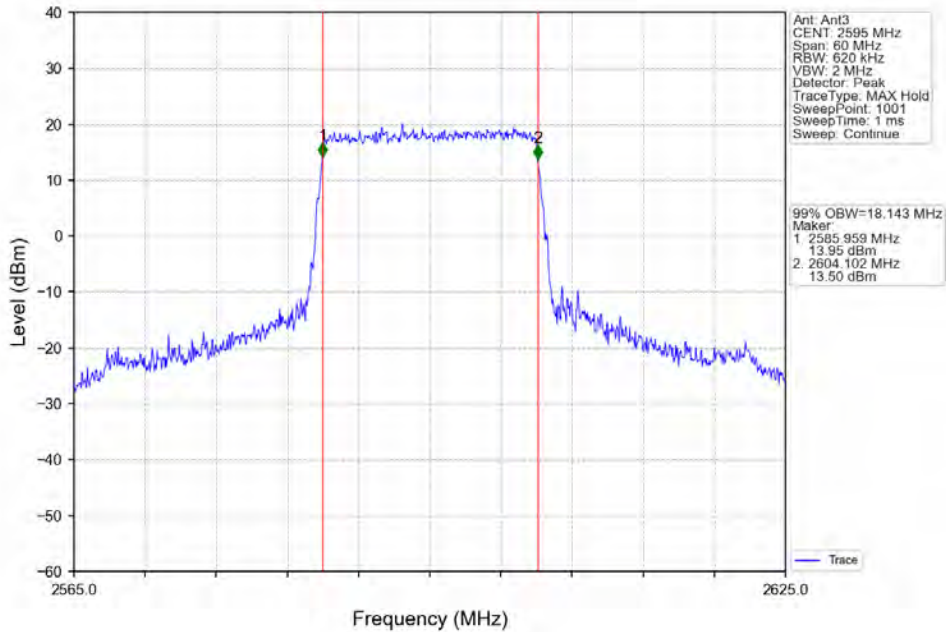
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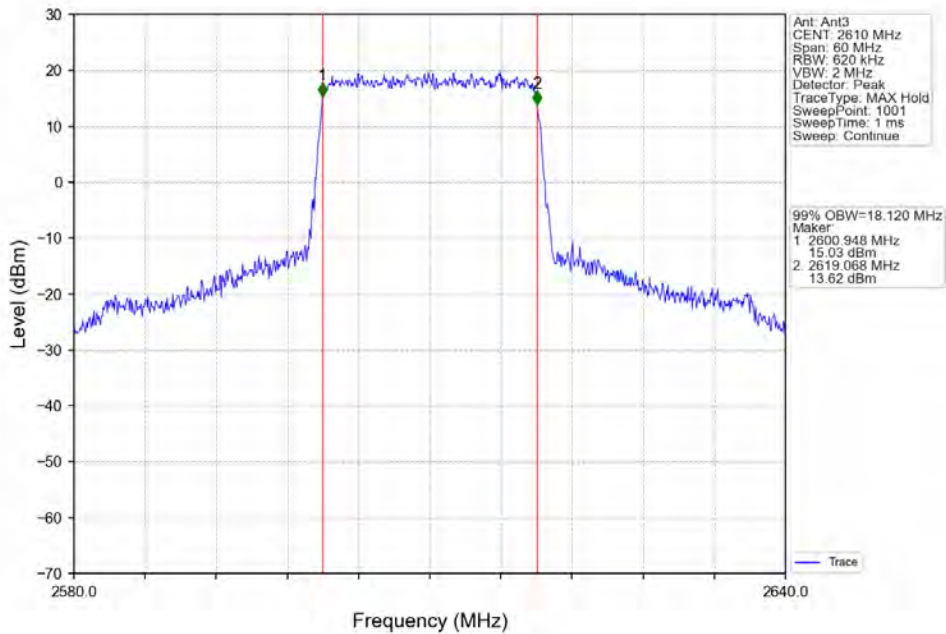


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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV

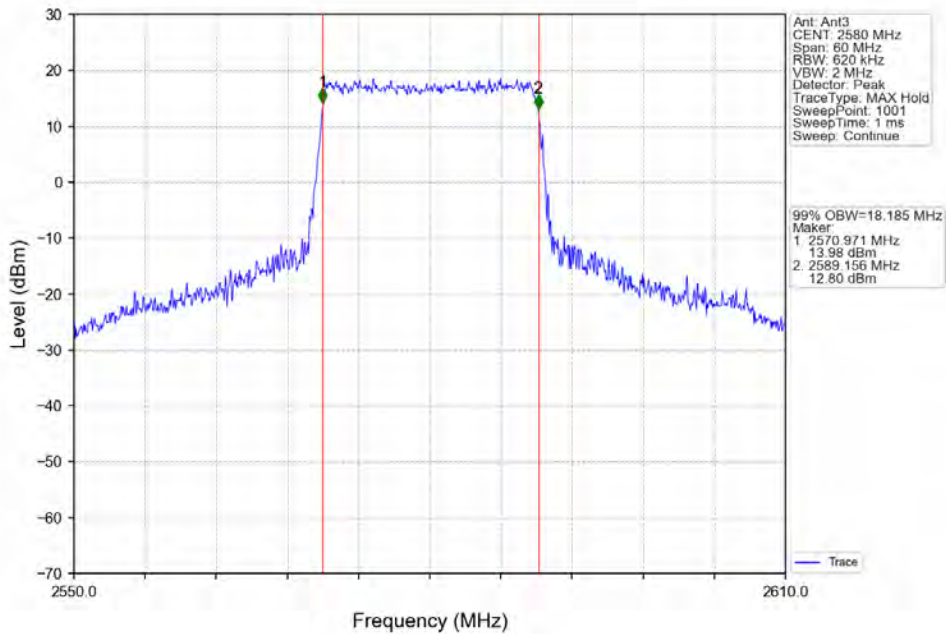


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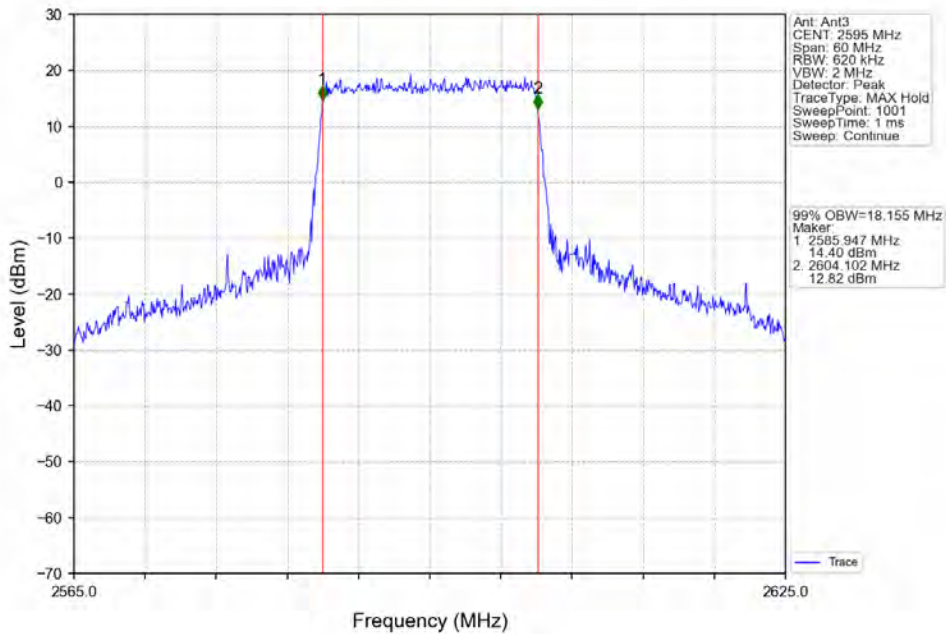


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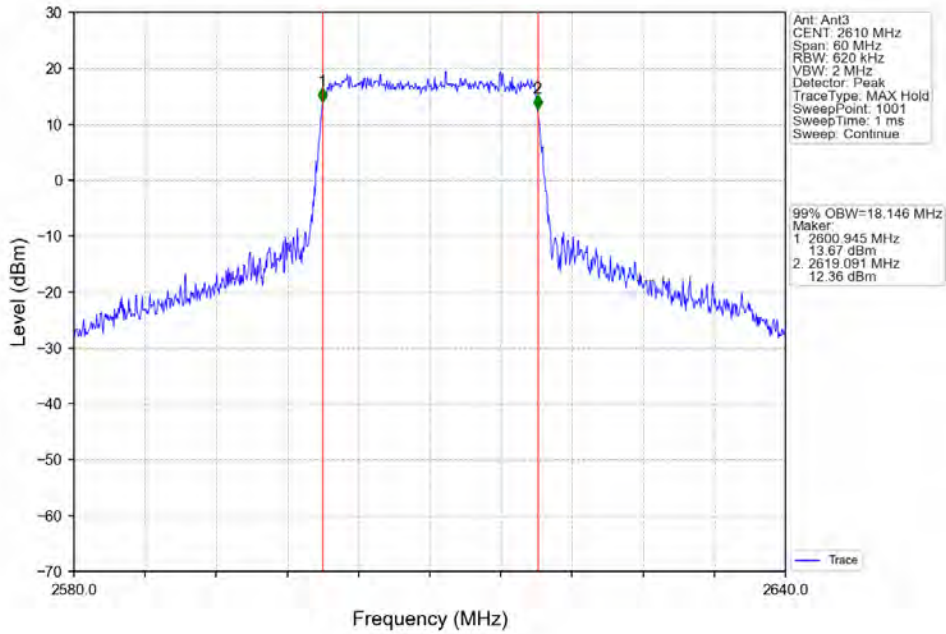


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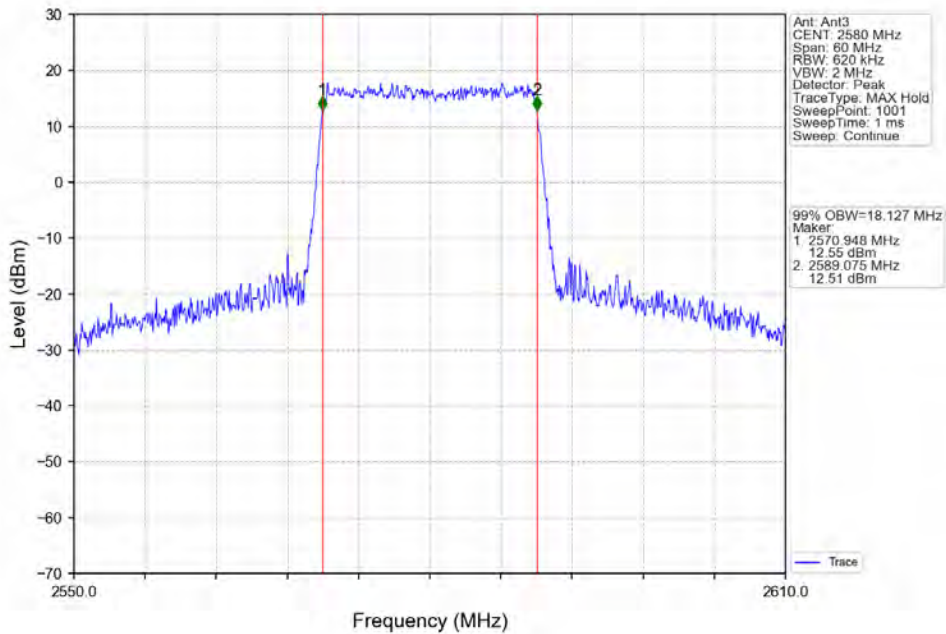
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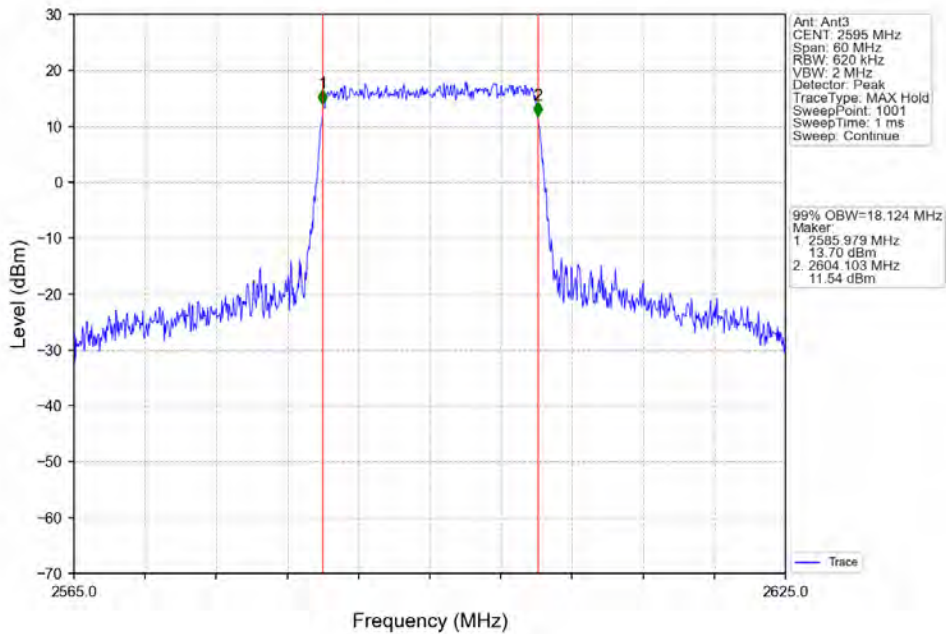


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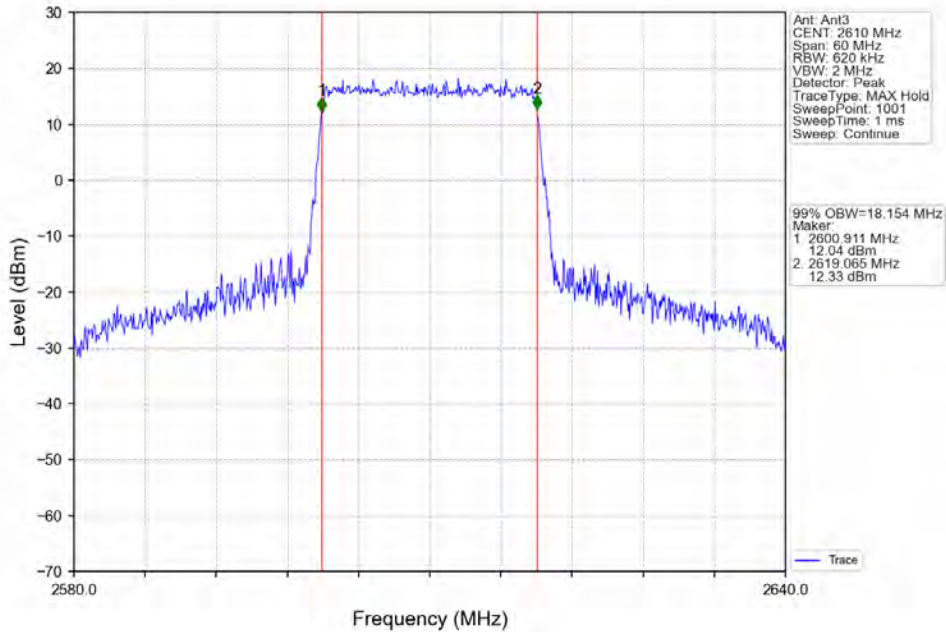


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### 3.2 Band38\_XDB

#### 3.2.1 Test Result

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.284	/	Pass
		2595	25	0	5.236	/	Pass
		2617.5	25	0	5.183	/	Pass
	16QAM	2572.5	25	0	5.260	/	Pass
		2595	25	0	5.194	/	Pass
		2617.5	25	0	5.272	/	Pass
	64QAM	2572.5	25	0	5.250	/	Pass
		2595	25	0	5.197	/	Pass
		2617.5	25	0	5.284	/	Pass
10	QPSK	2575	50	0	10.111	/	Pass
		2595	50	0	10.144	/	Pass
		2615	50	0	10.200	/	Pass
	16QAM	2575	50	0	10.200	/	Pass
		2595	50	0	10.142	/	Pass
		2615	50	0	10.256	/	Pass
	64QAM	2575	50	0	10.145	/	Pass
		2595	50	0	10.082	/	Pass
		2615	50	0	10.225	/	Pass
15	QPSK	2577.5	75	0	15.206	/	Pass
		2595	75	0	15.109	/	Pass
		2612.5	75	0	15.260	/	Pass
	16QAM	2577.5	75	0	15.141	/	Pass
		2595	75	0	15.069	/	Pass
		2612.5	75	0	15.150	/	Pass
	64QAM	2577.5	75	0	15.212	/	Pass
		2595	75	0	15.218	/	Pass
		2612.5	75	0	15.290	/	Pass
20	QPSK	2580	100	0	20.072	/	Pass
		2595	100	0	20.080	/	Pass
		2610	100	0	20.053	/	Pass
	16QAM	2580	100	0	20.373	/	Pass
		2595	100	0	19.949	/	Pass
		2610	100	0	20.034	/	Pass
	64QAM	2580	100	0	20.047	/	Pass
		2595	100	0	19.978	/	Pass
		2610	100	0	20.145	/	Pass



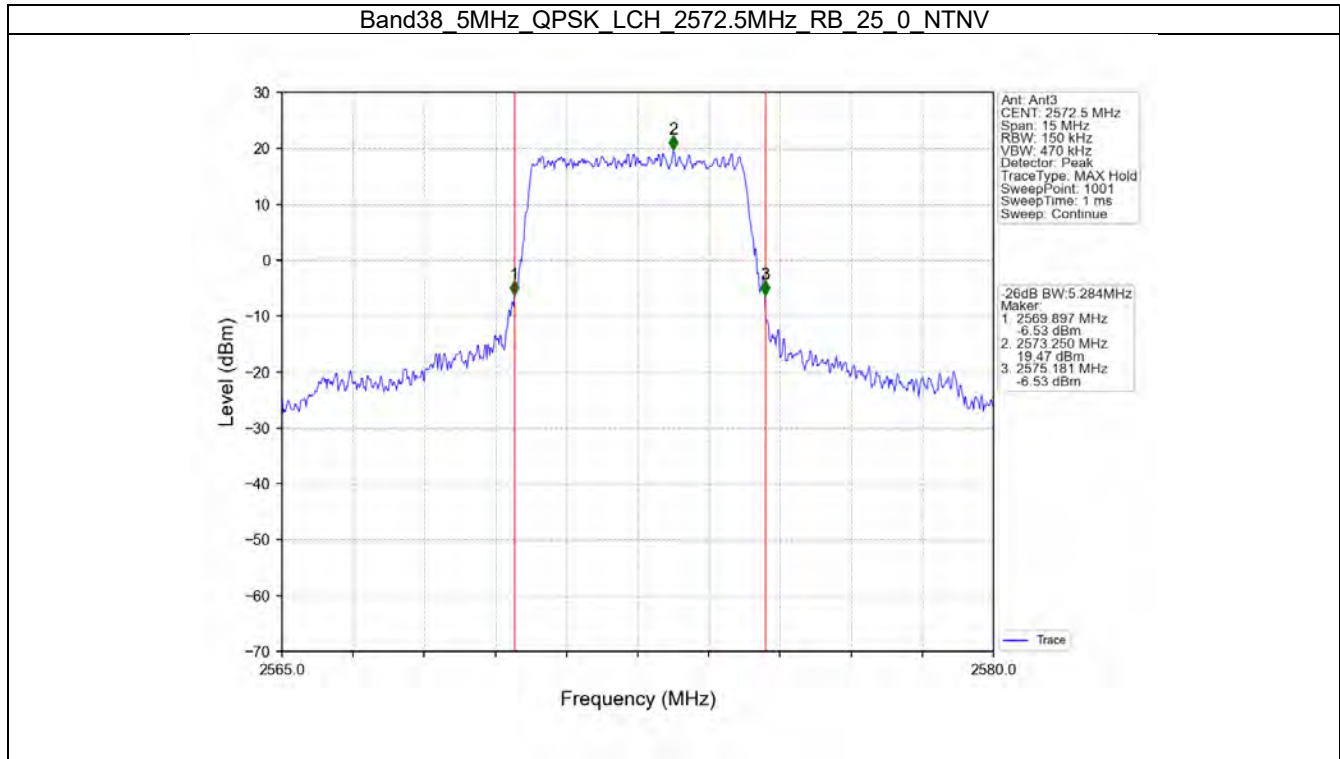
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3.2.2 Test Graph

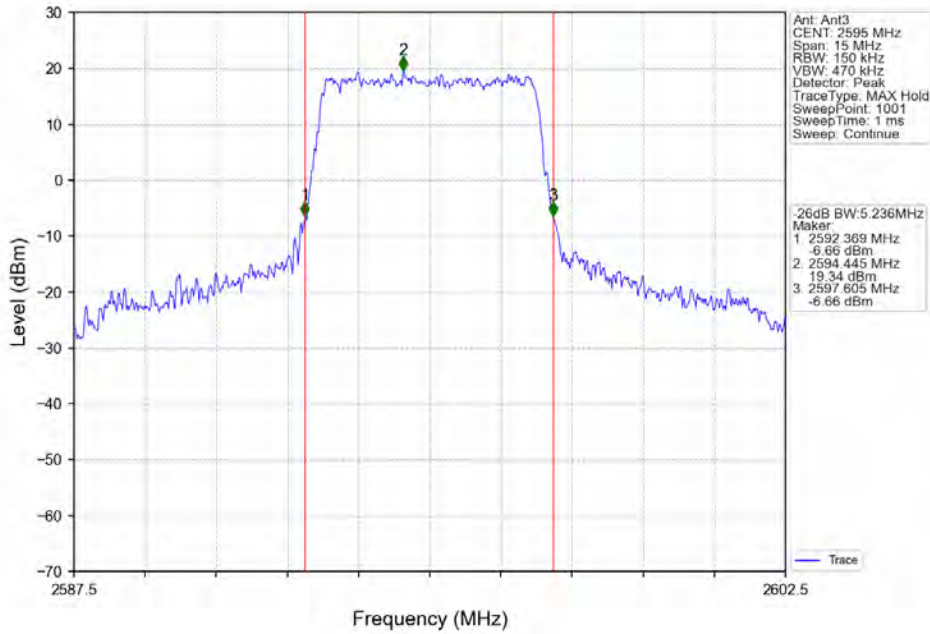


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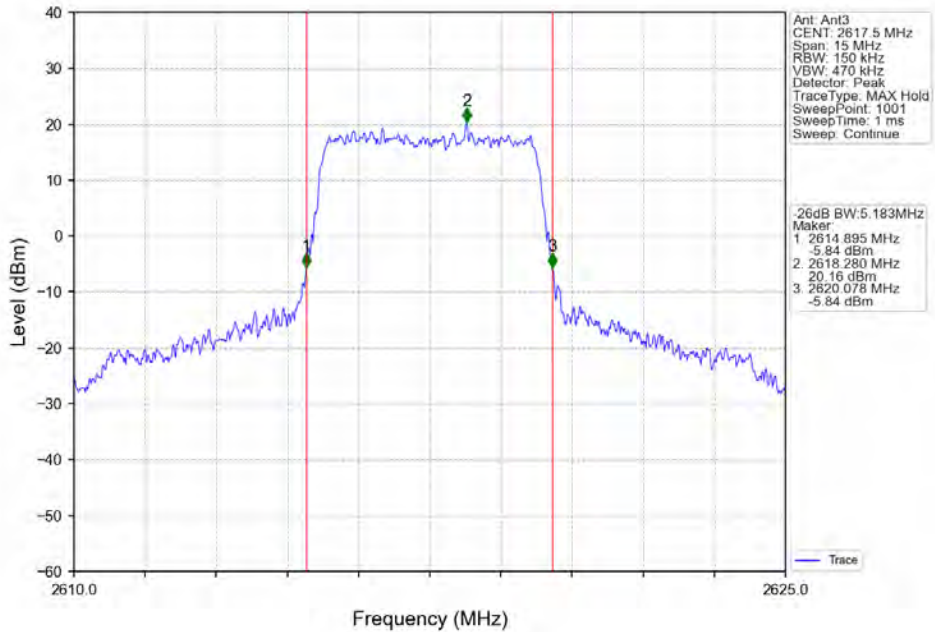


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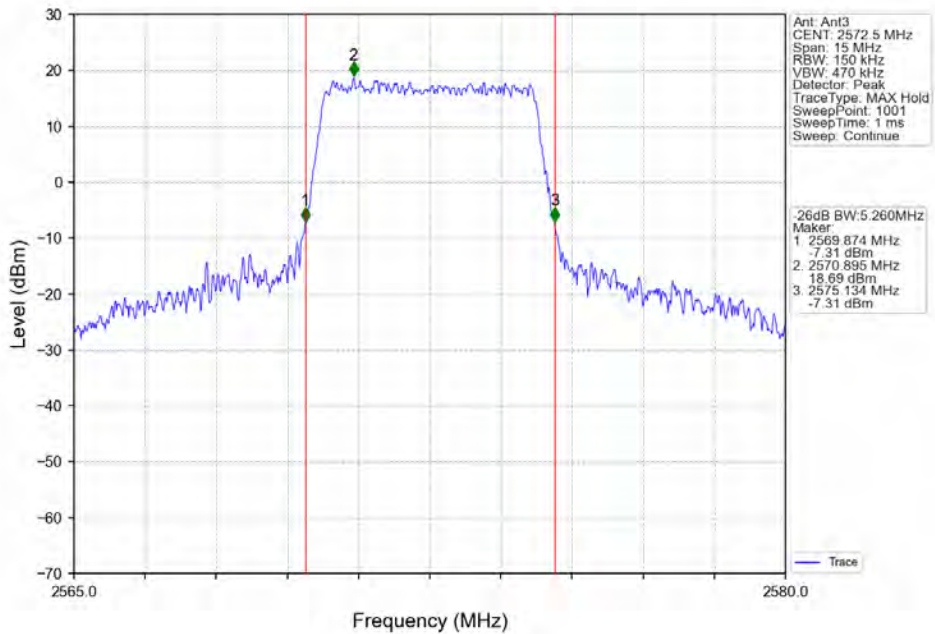
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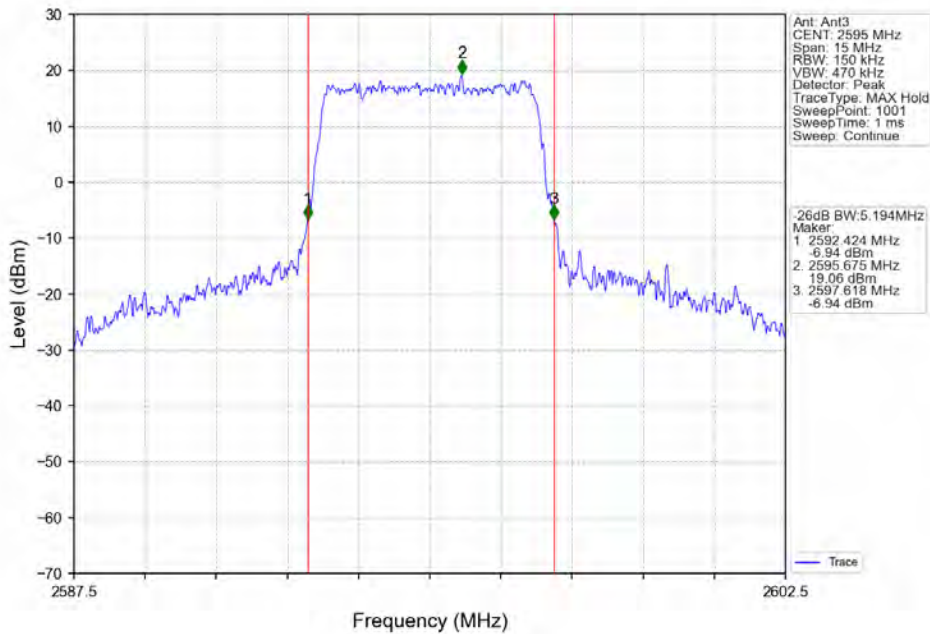
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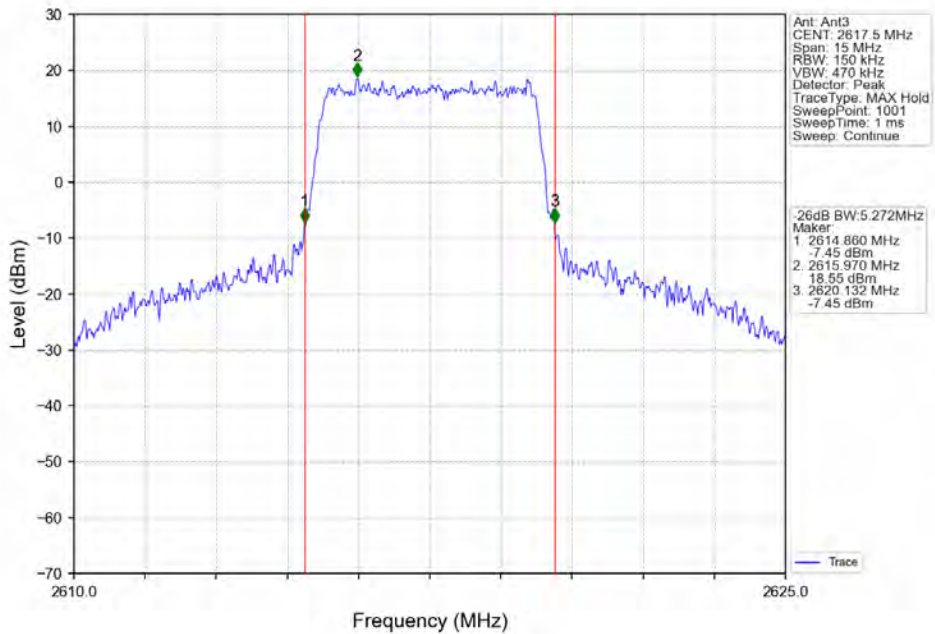
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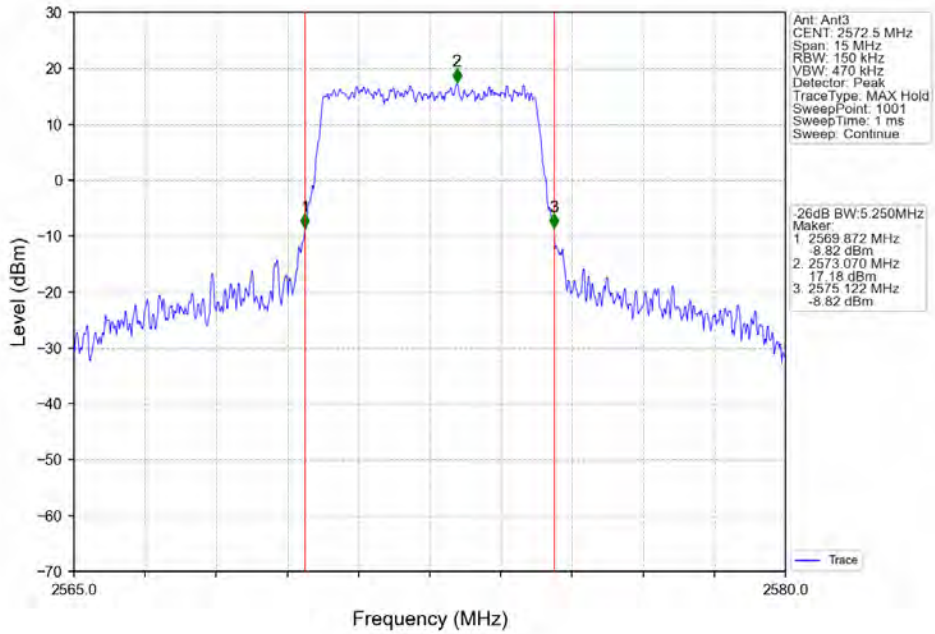


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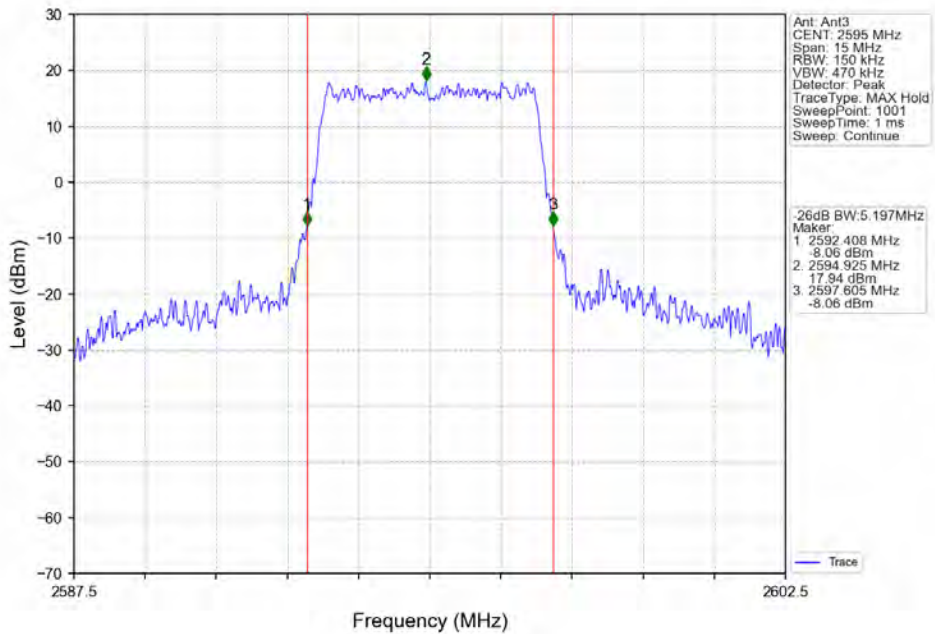


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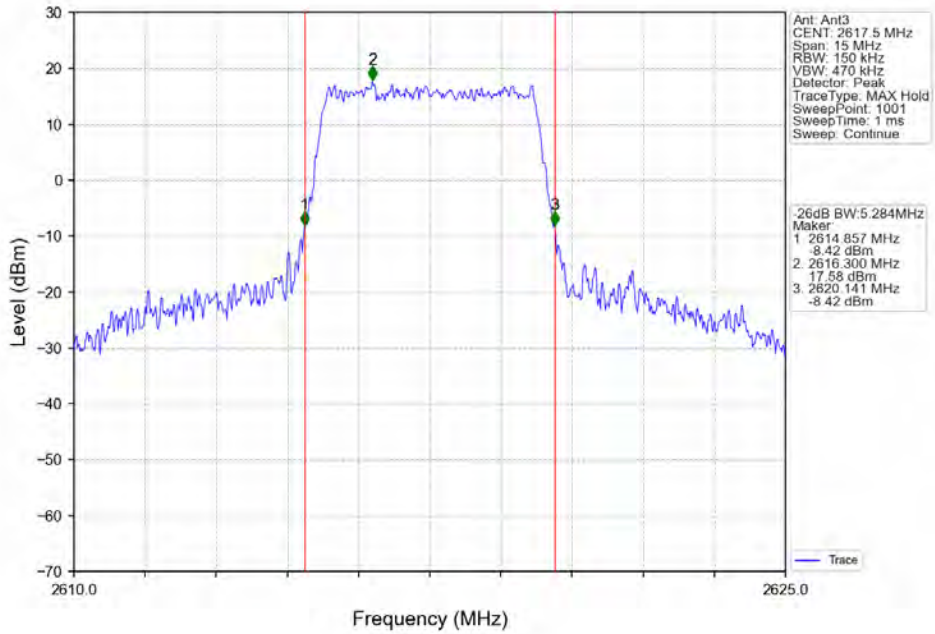


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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



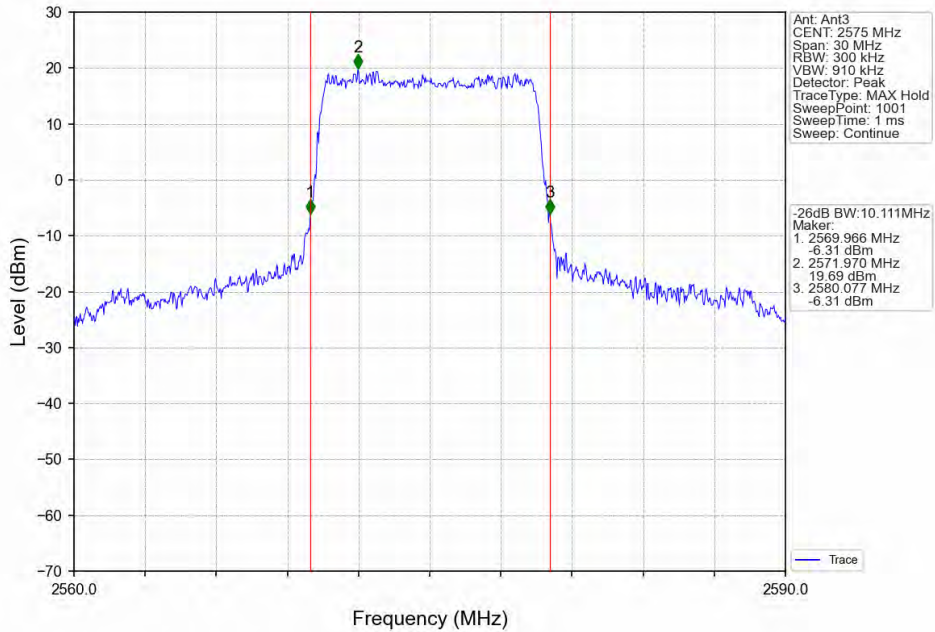
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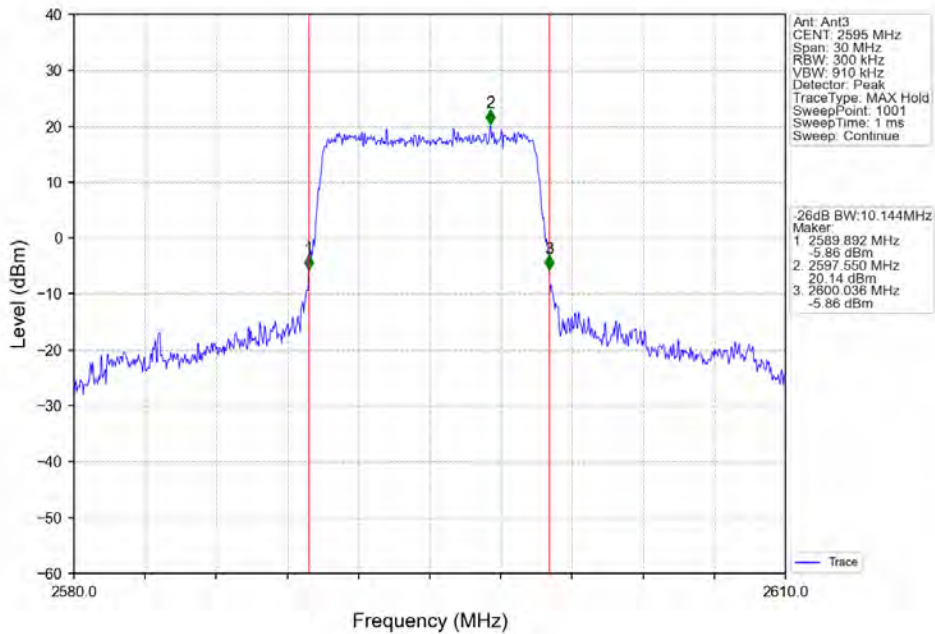


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Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV

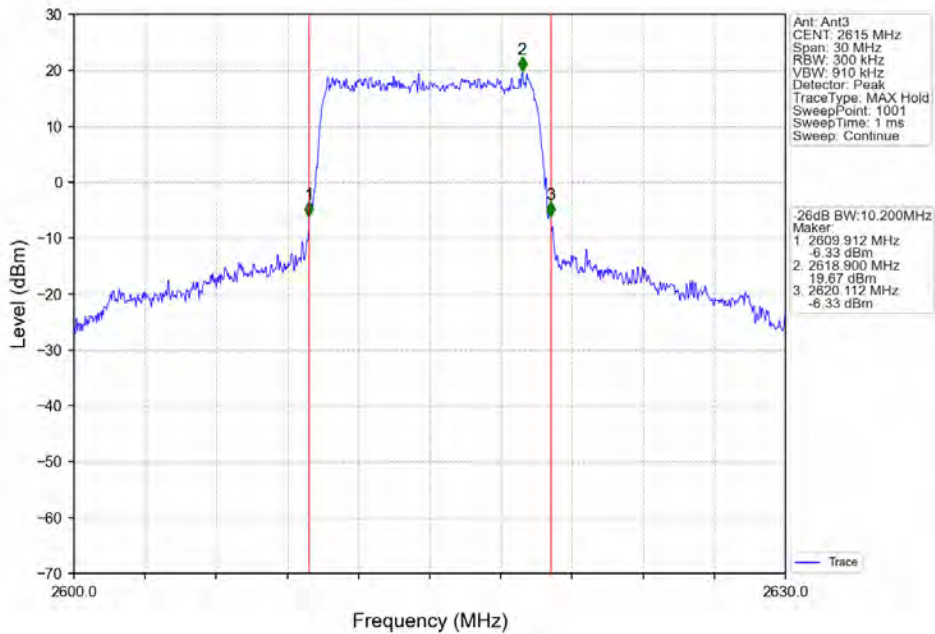


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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



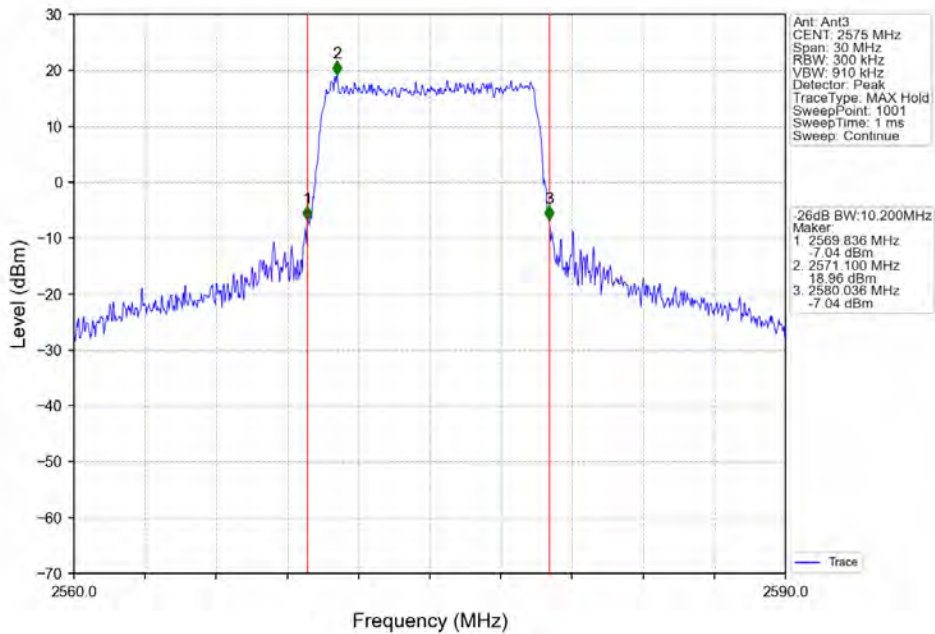
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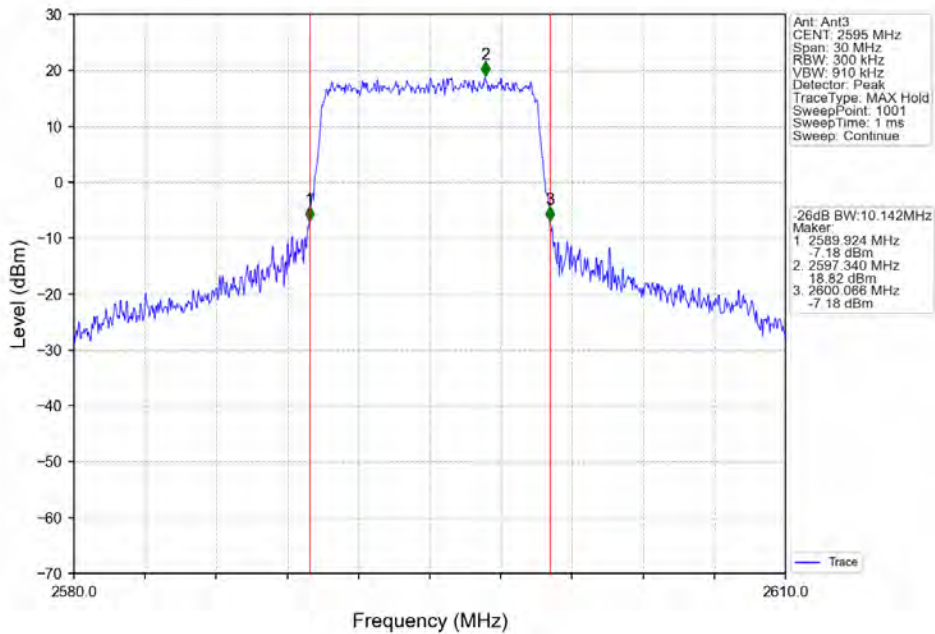
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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



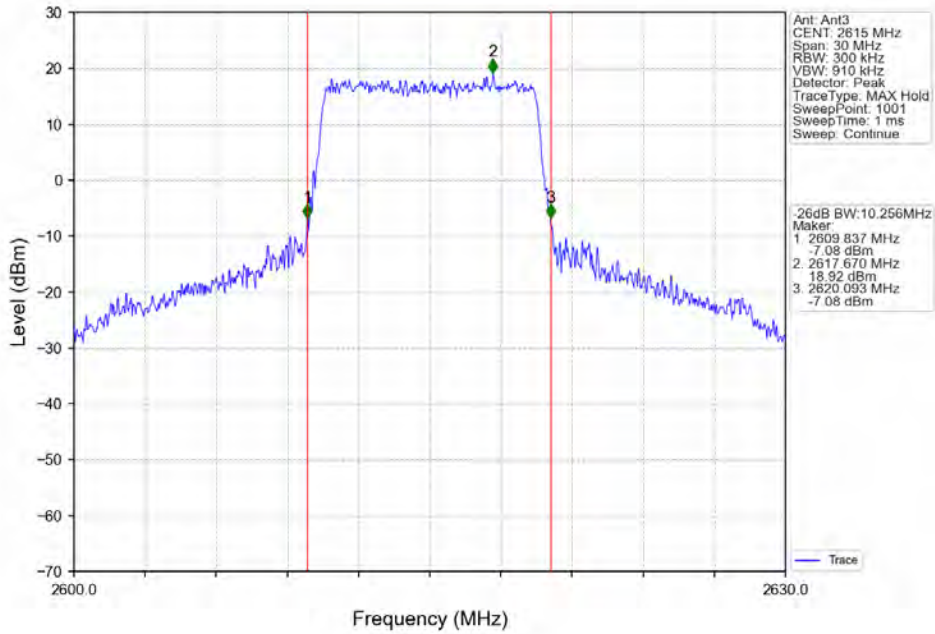
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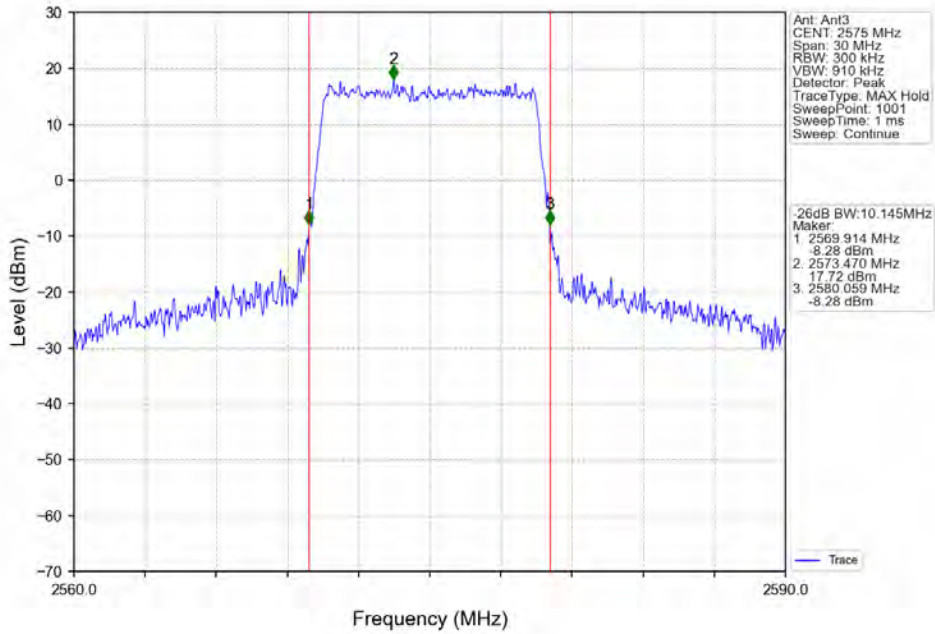


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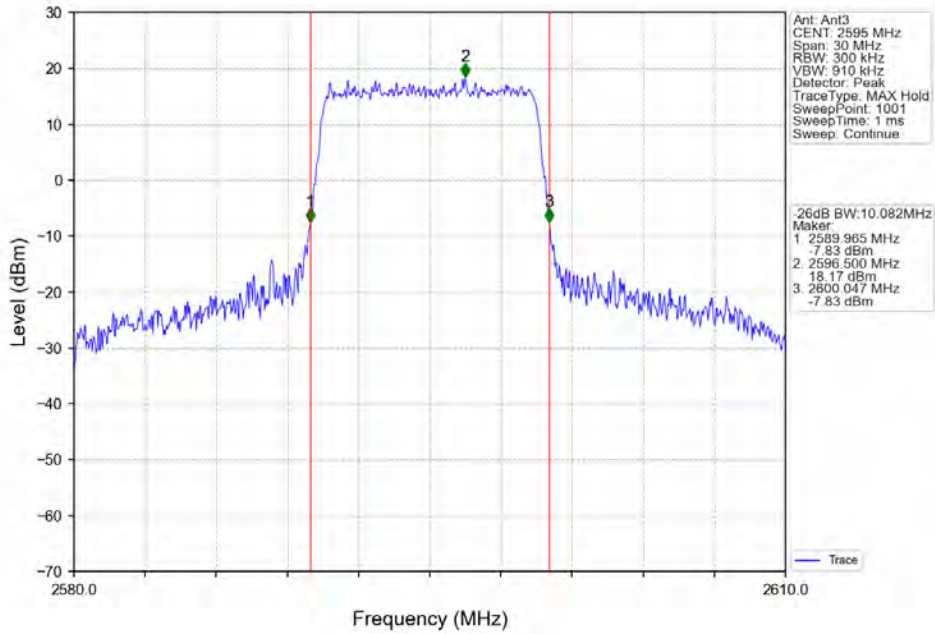
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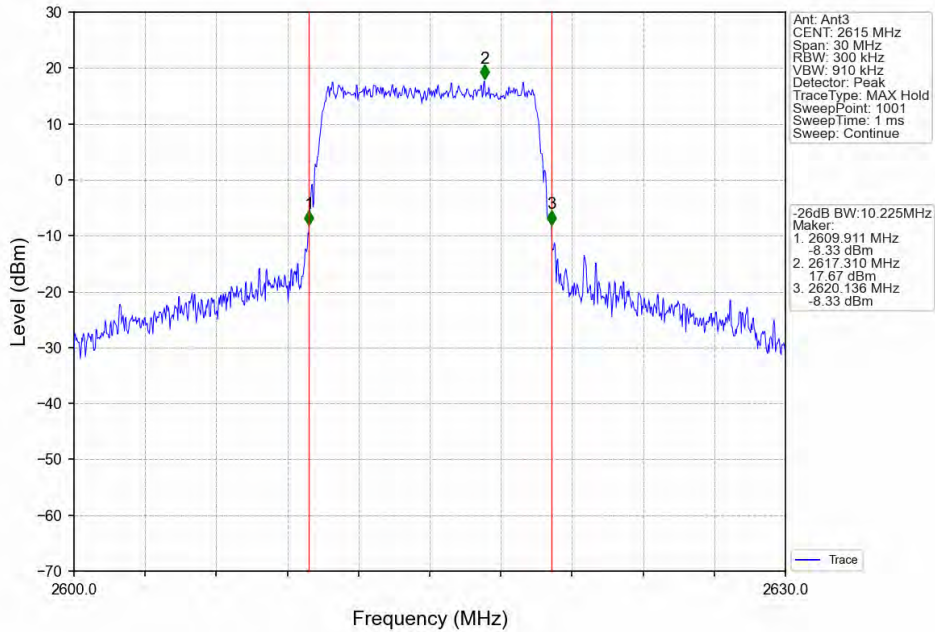


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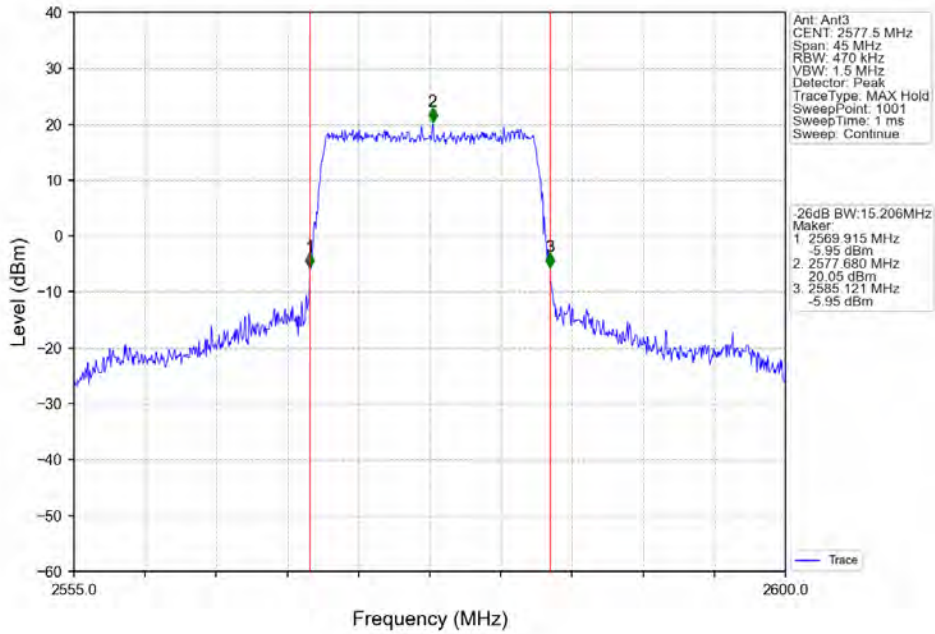


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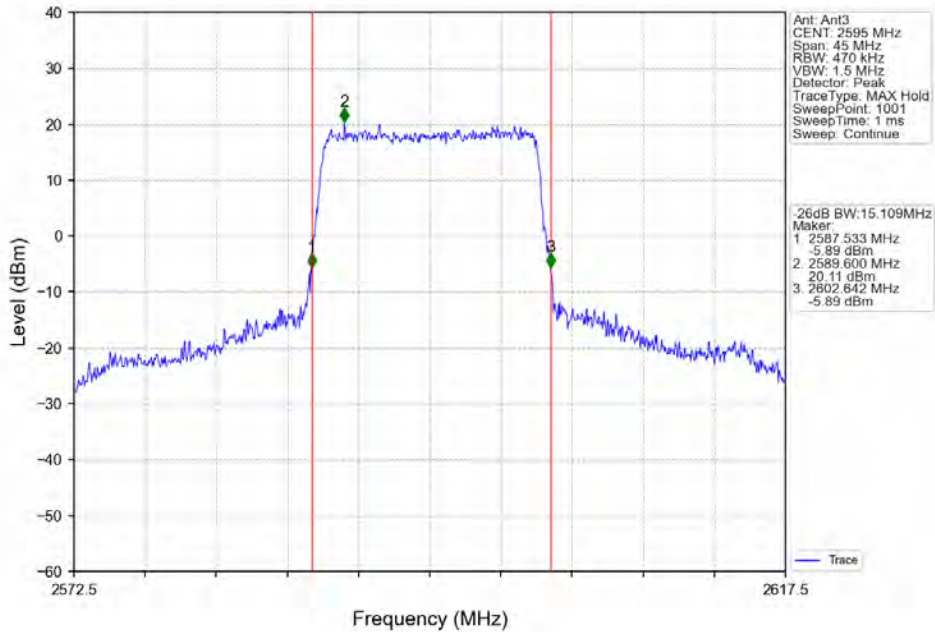


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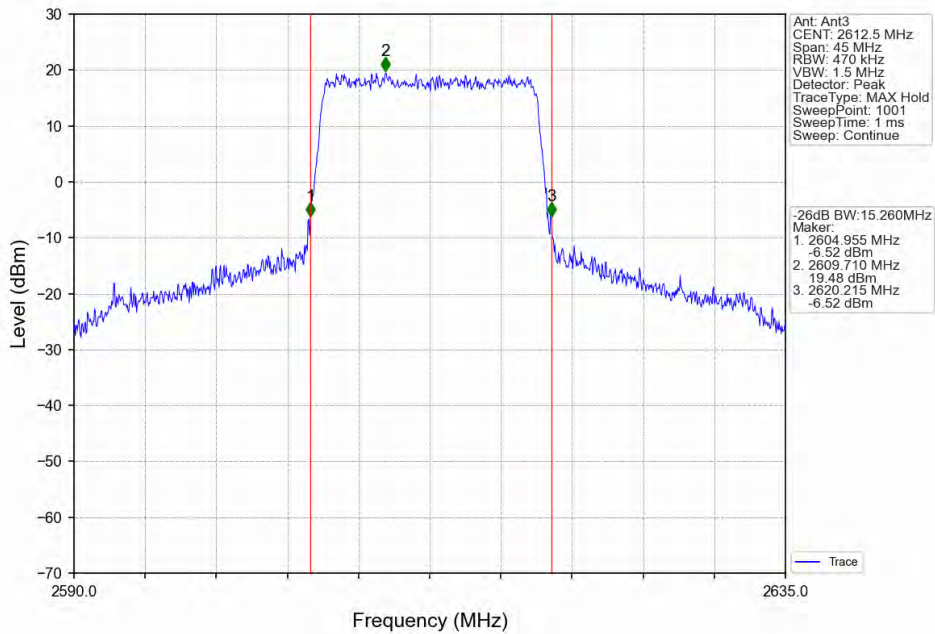
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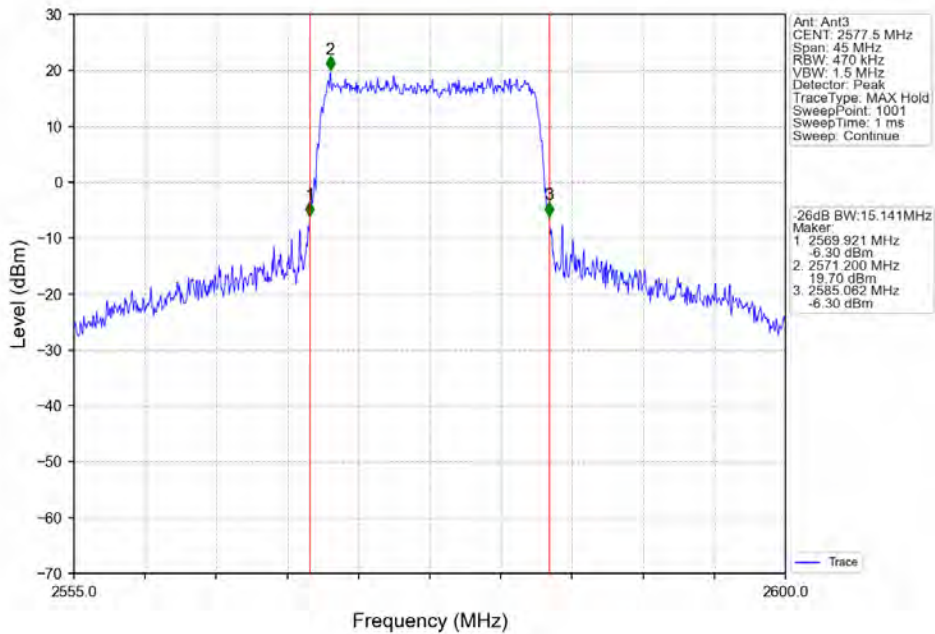


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Band38\_15MHz\_16QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV

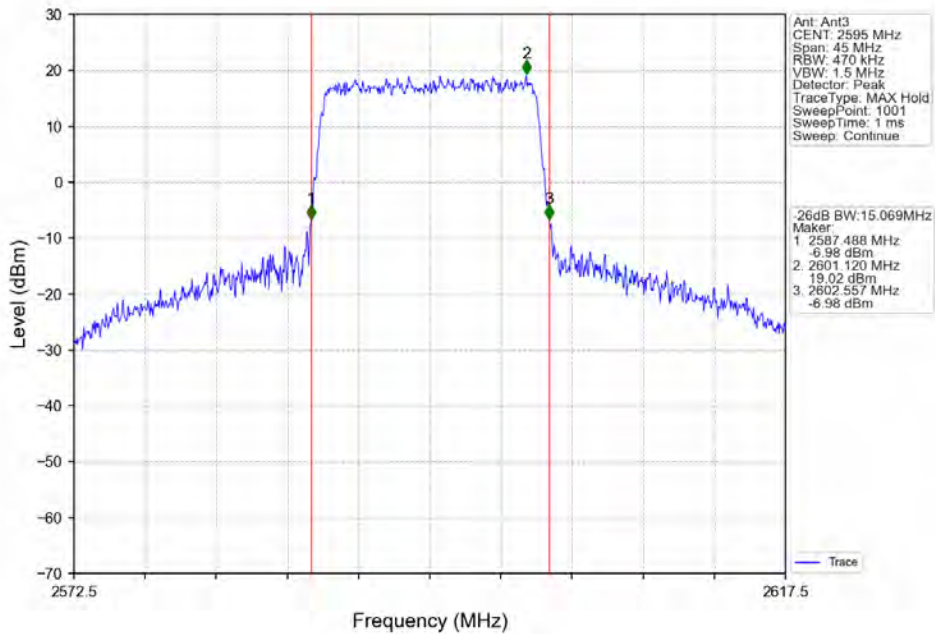


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Band38\_15MHz\_16QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV

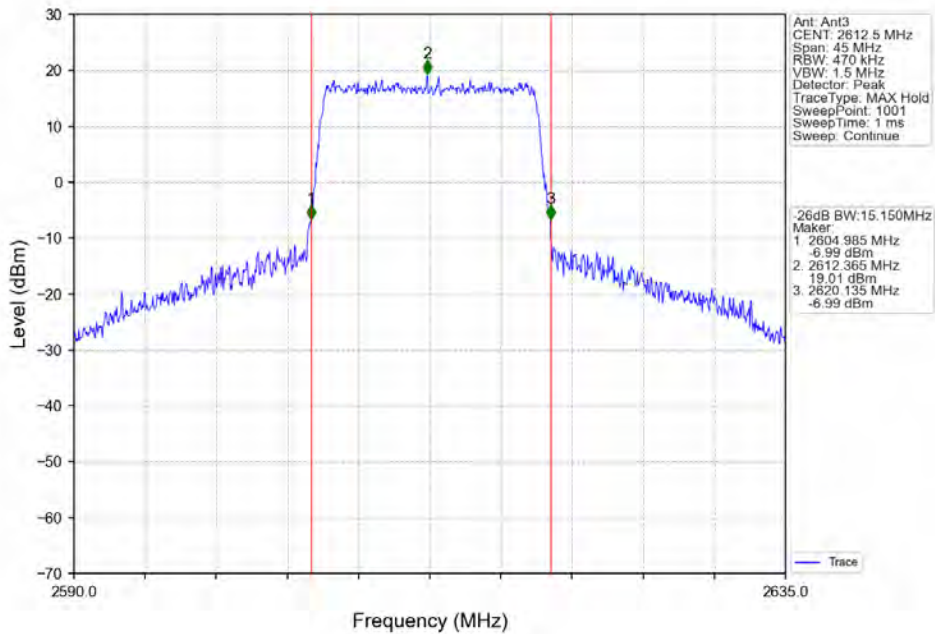


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Band38\_15MHz\_16QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



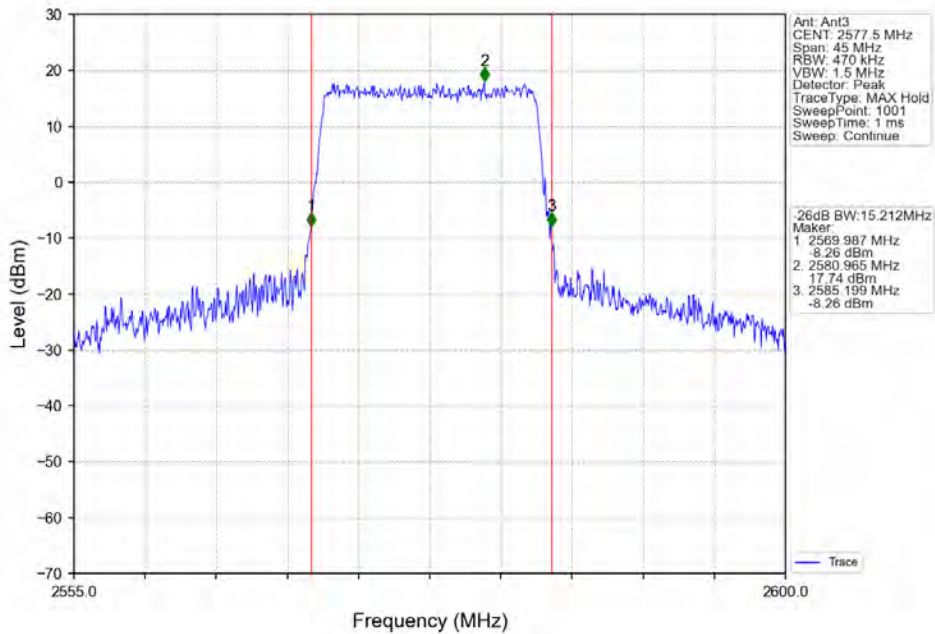
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Band38\_15MHz\_64QAM\_LCH\_2577.5MHz\_RB\_75\_0\_NTNV

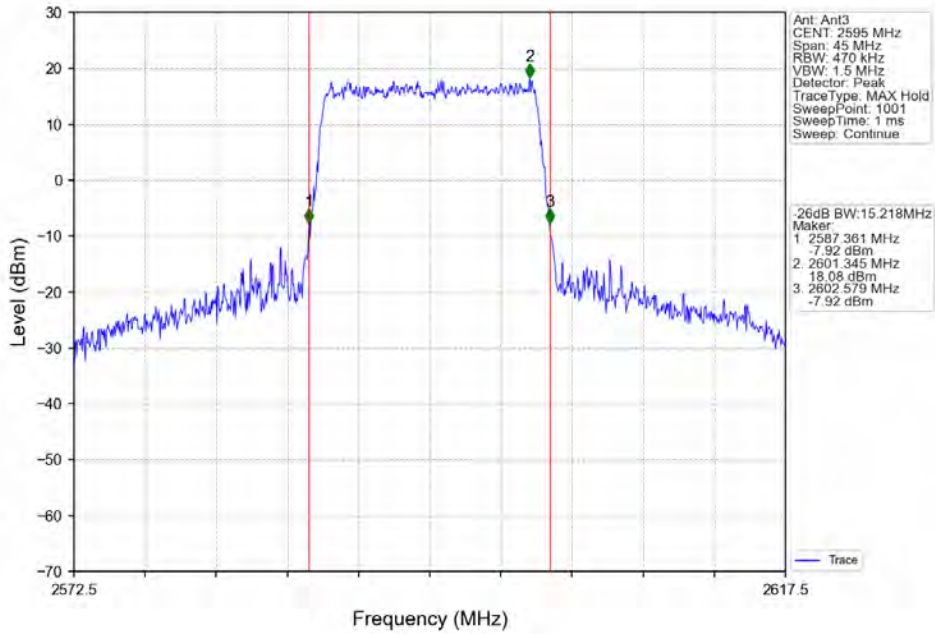


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Band38\_15MHz\_64QAM\_MCH\_2595MHz\_RB\_75\_0\_NTNV

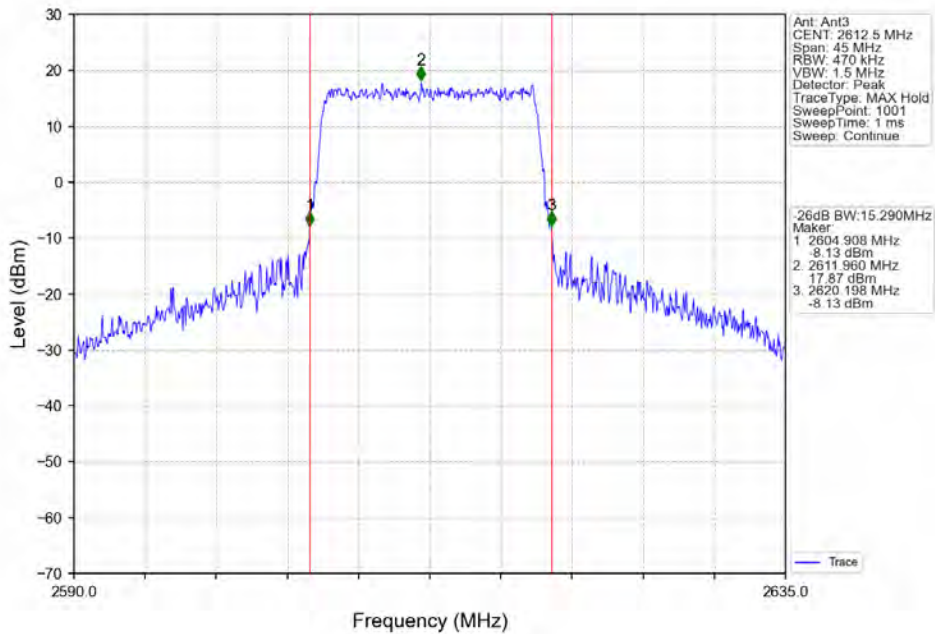


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Band38\_15MHz\_64QAM\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV

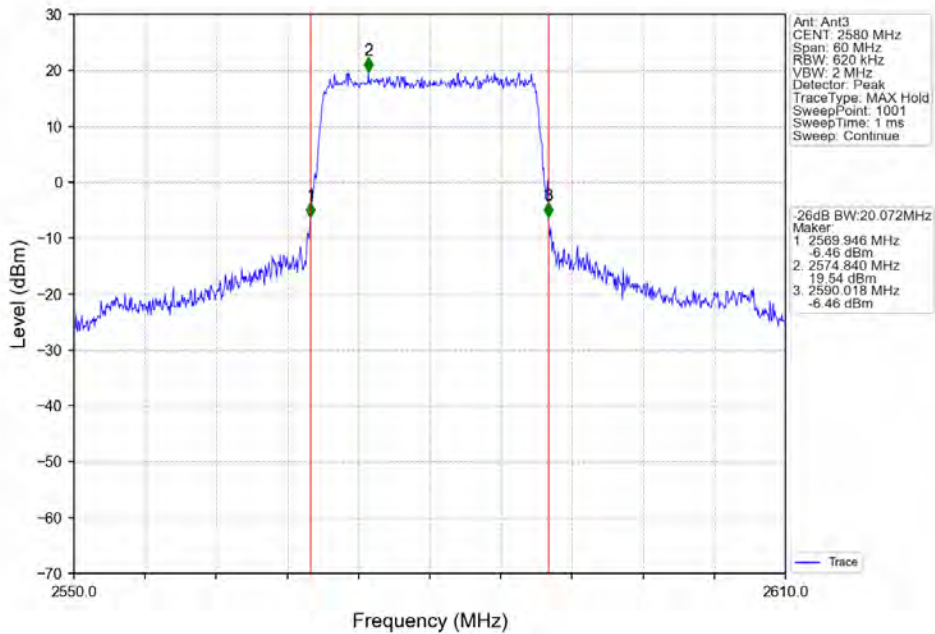


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Band38\_20MHz\_QPSK\_LCH\_2580MHz\_RB\_100\_0\_NTNV



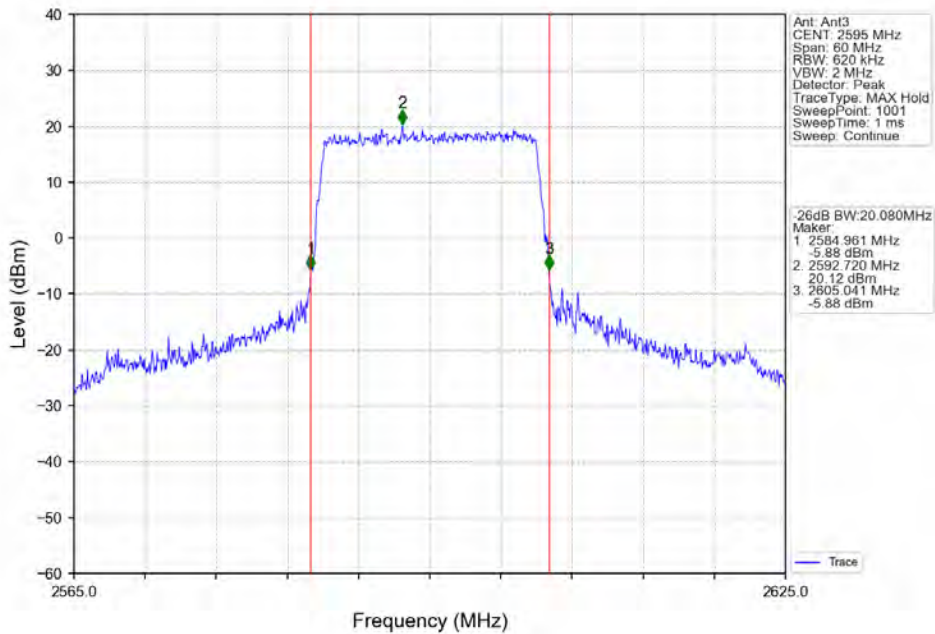
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Band38\_20MHz\_QPSK\_MCH\_2595MHz\_RB\_100\_0\_NTNV

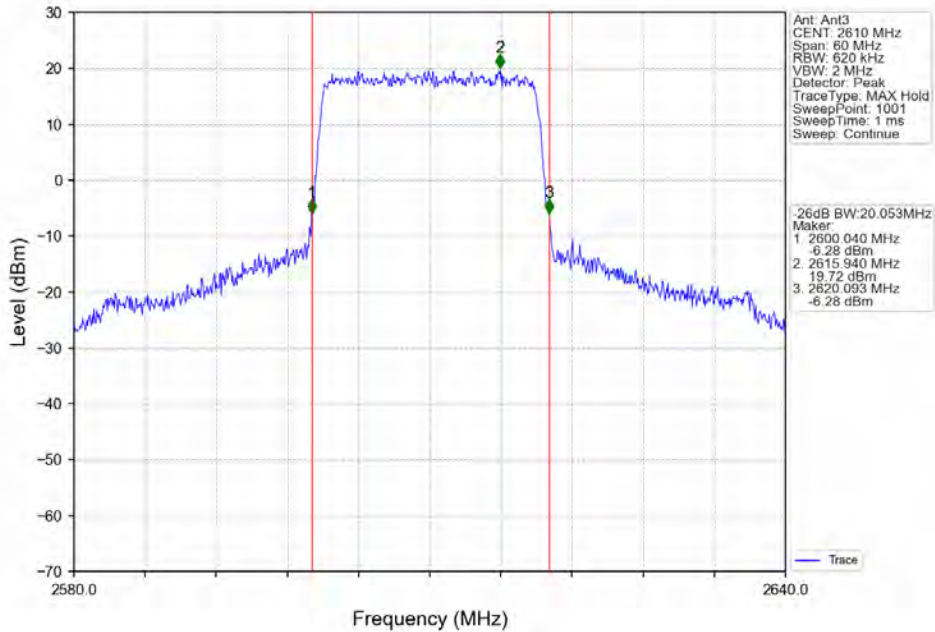


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Band38\_20MHz\_QPSK\_HCH\_2610MHz\_RB\_100\_0\_NTNV

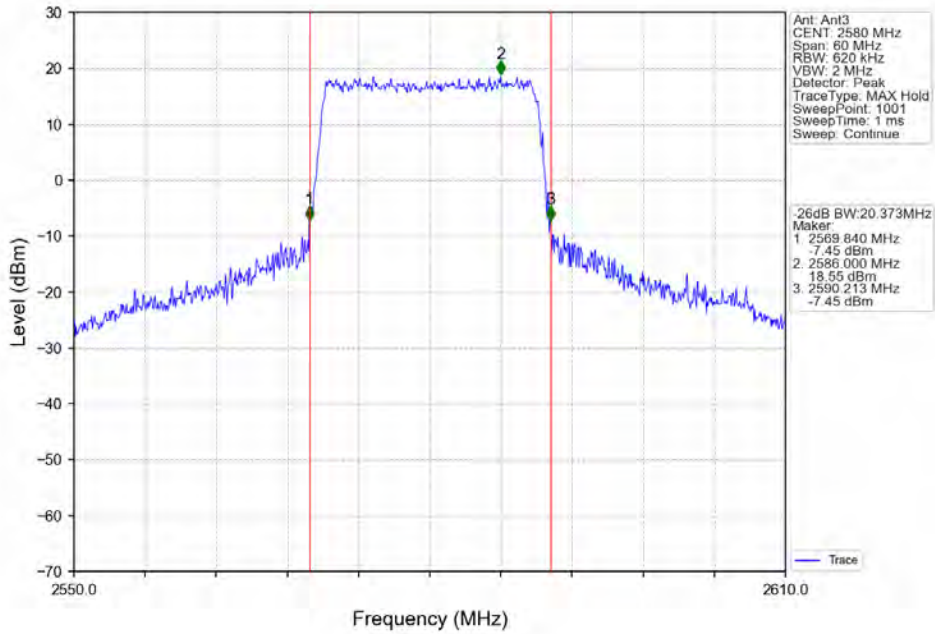


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Band38\_20MHz\_16QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV

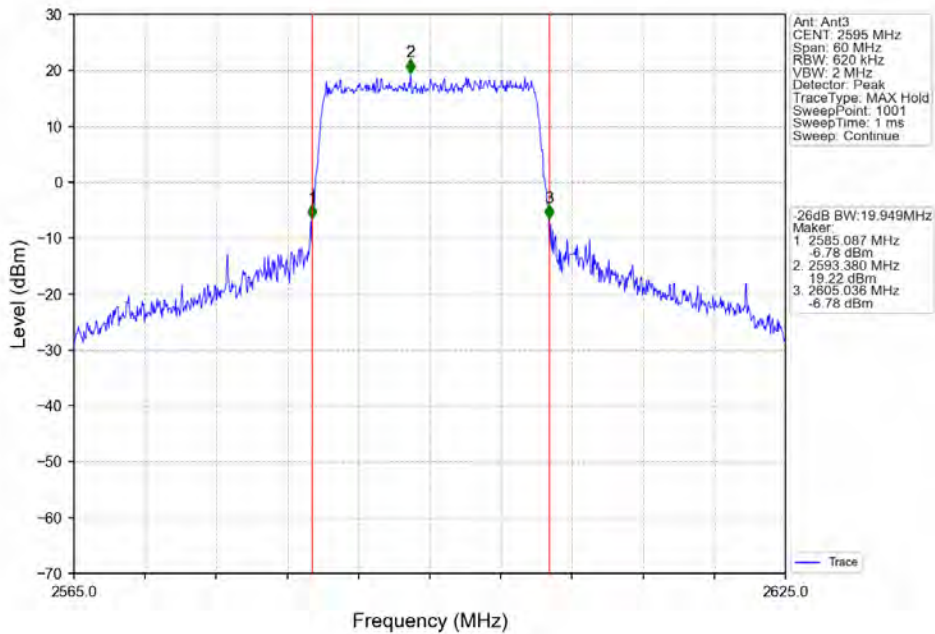


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Band38\_20MHz\_16QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV



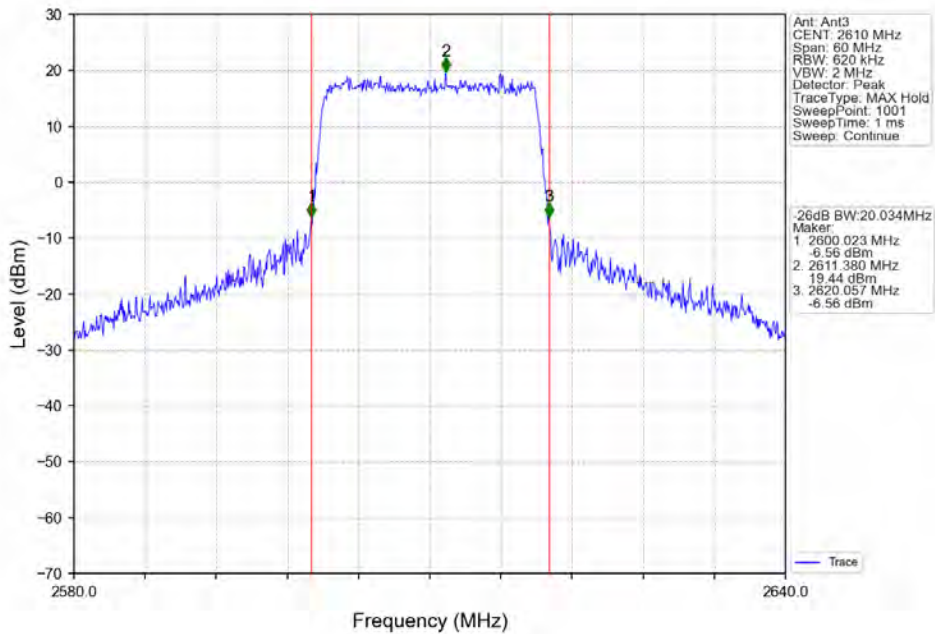
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Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV

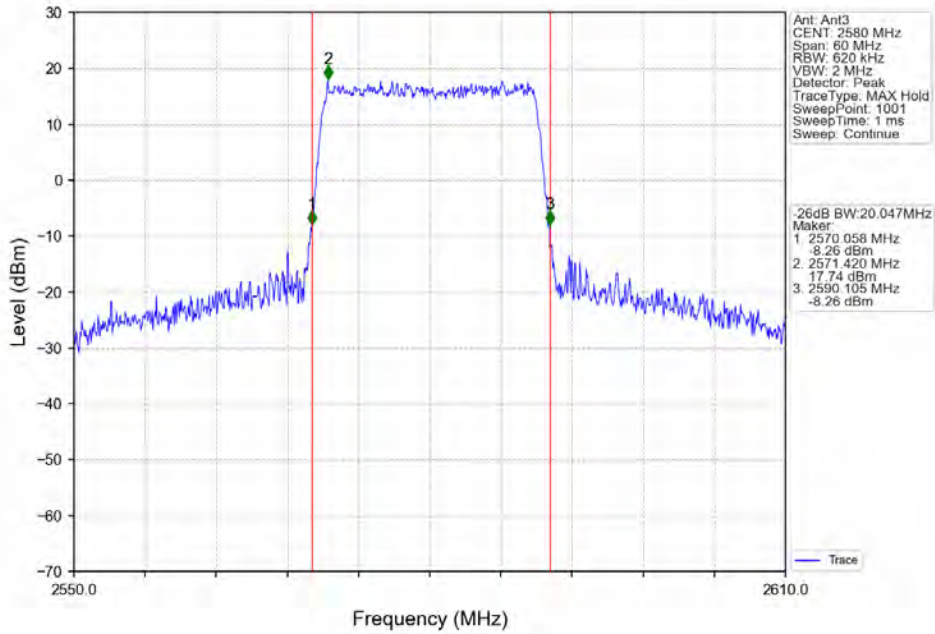


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Band38\_20MHz\_64QAM\_LCH\_2580MHz\_RB\_100\_0\_NTNV

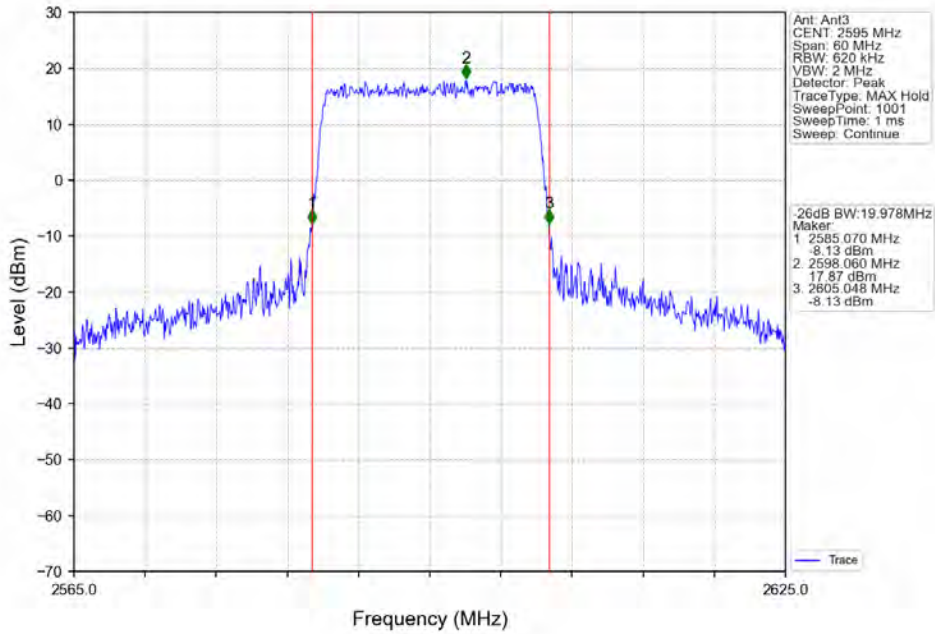


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Band38\_20MHz\_64QAM\_MCH\_2595MHz\_RB\_100\_0\_NTNV

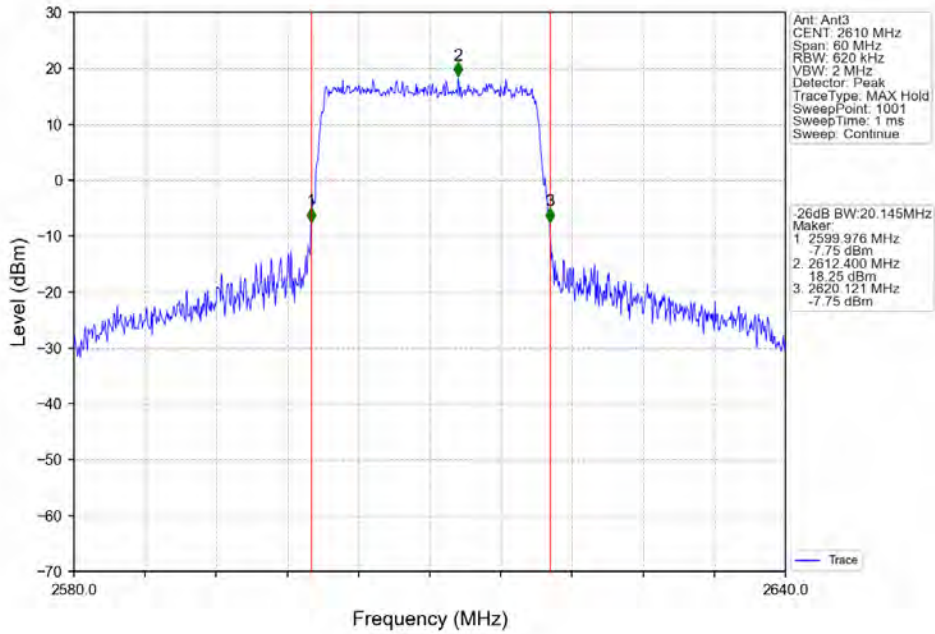


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Band38\_20MHz\_64QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV



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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	7.16	<=13	Pass
	2595	25	0	7.52	<=13	Pass
	2617.5	25	0	6.93	<=13	Pass
16QAM	2572.5	25	0	8.04	<=13	Pass
	2595	25	0	7.94	<=13	Pass
	2617.5	25	0	7.55	<=13	Pass
64QAM	2572.5	25	0	8.31	<=13	Pass
	2595	25	0	8.71	<=13	Pass
	2617.5	25	0	8.64	<=13	Pass

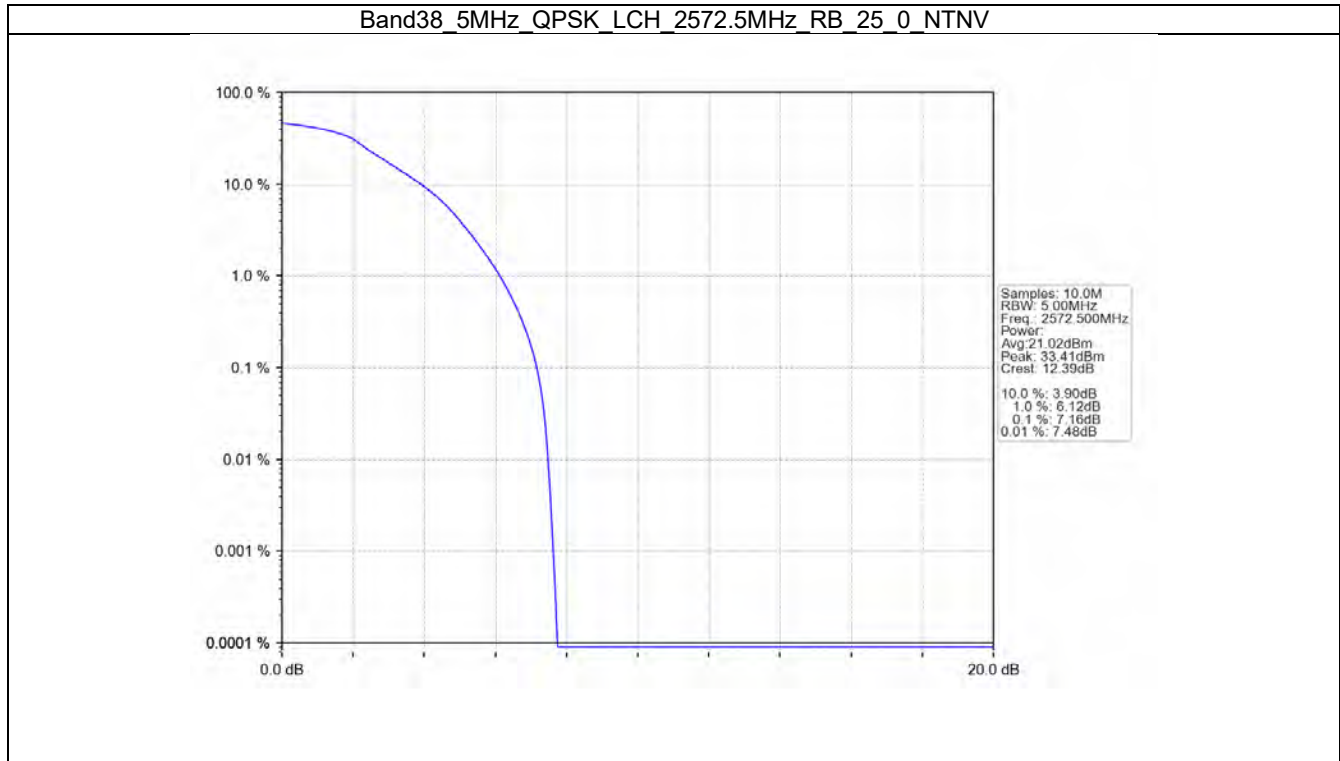


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4.1.2 Test Graph



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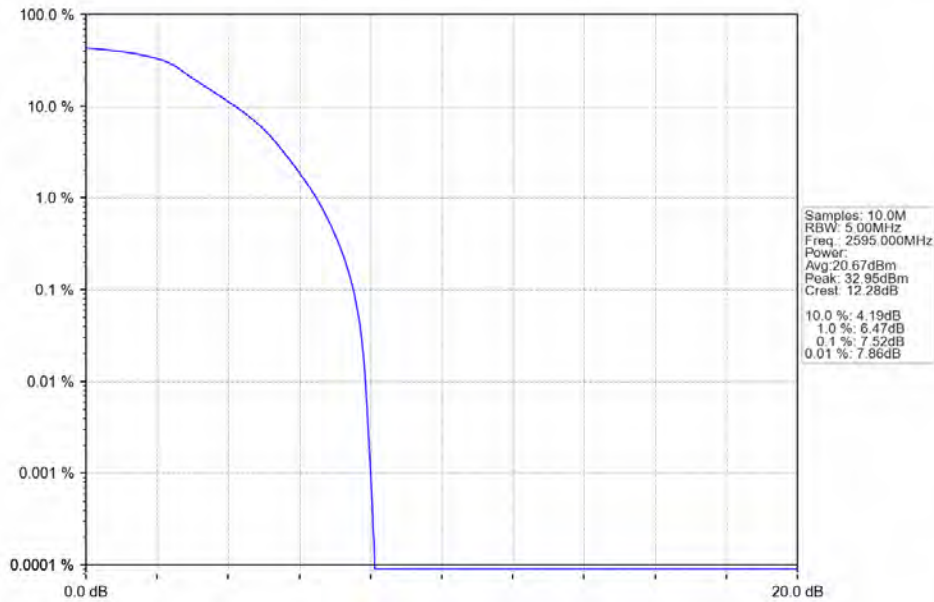
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Band38\_5MHz\_QPSK\_MCH\_2595MHz\_RB\_25\_0\_NTNV

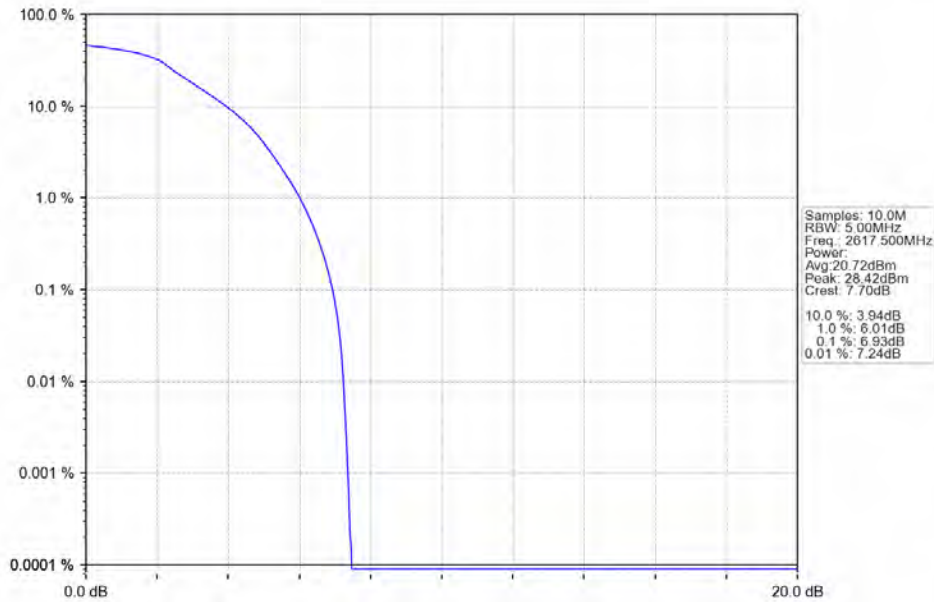


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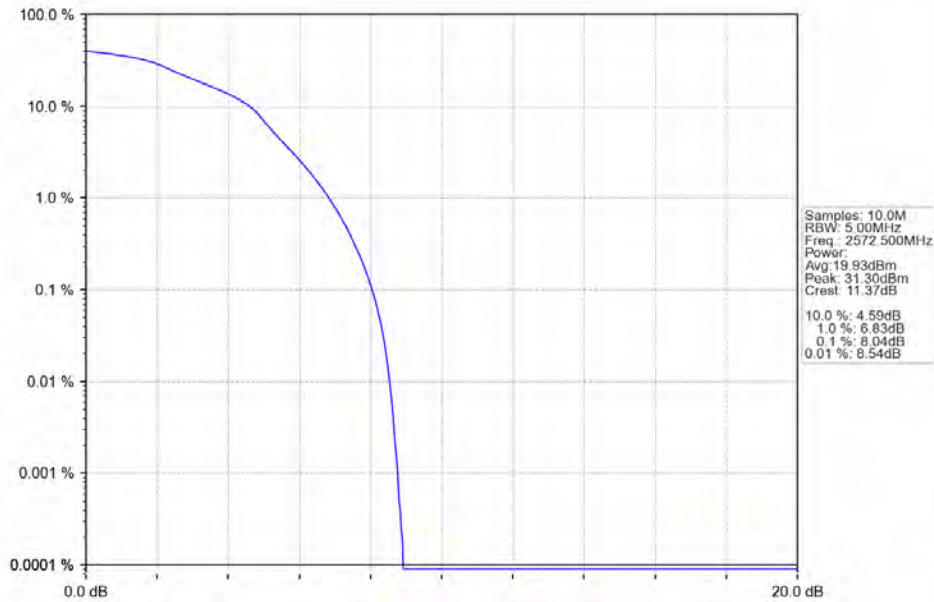


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Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_25\_0\_NTNV



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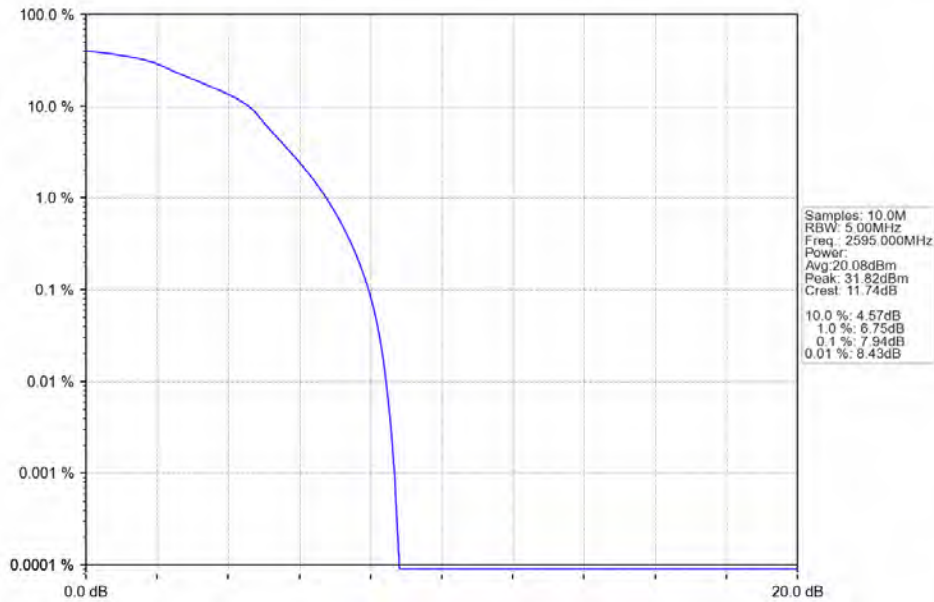
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Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_25\_0\_NTNV



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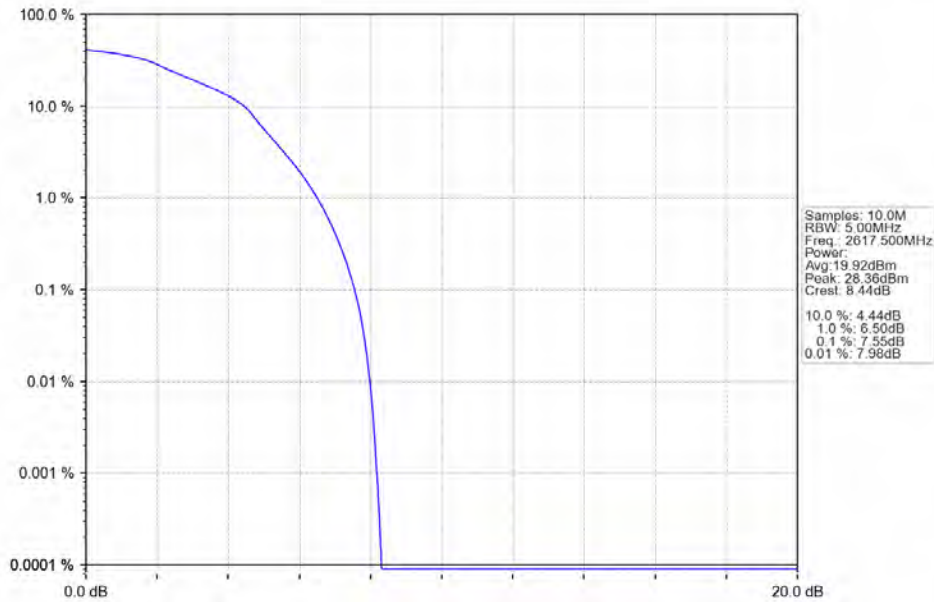
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Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



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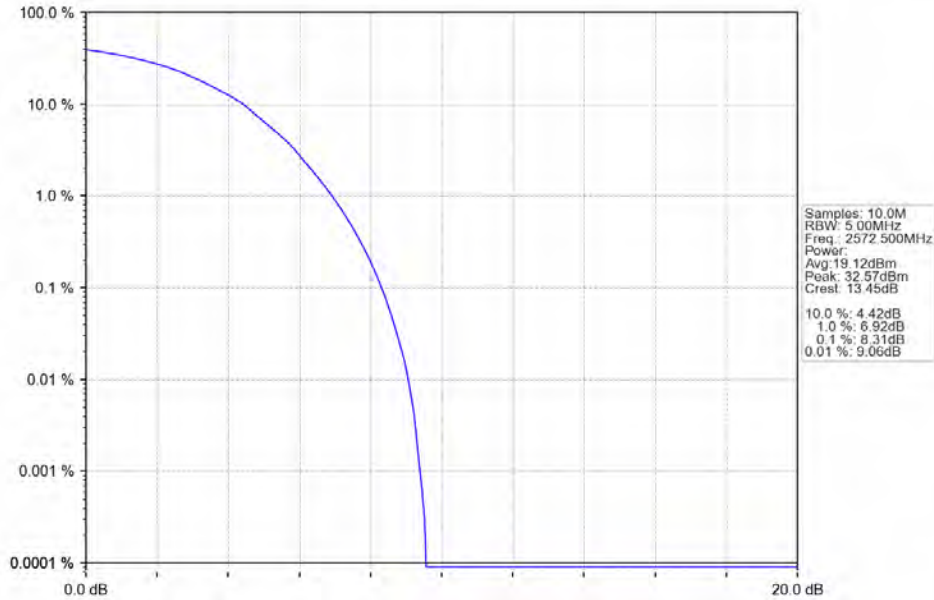
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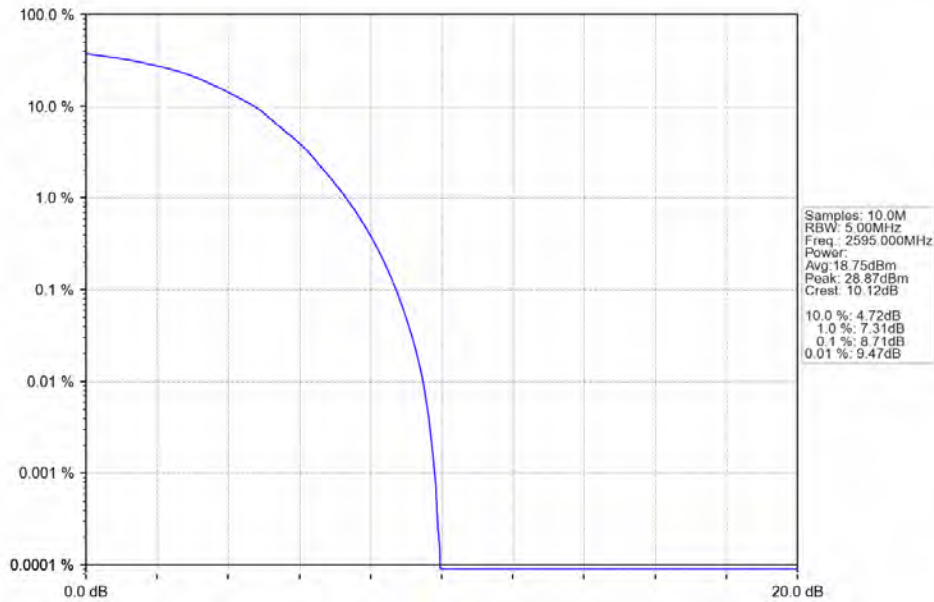


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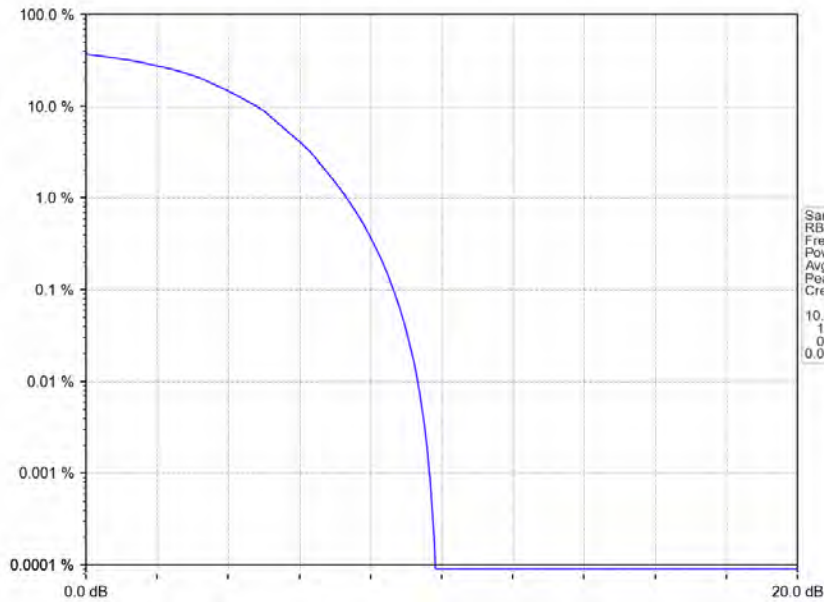


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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 2617.500MHz  
 Power:  
 Avg: 18.29dBm  
 Peak: 35.19dBm  
 Crest: 16.90dB  
 10.0 %: 4.79dB  
 1.0 %: 7.33dB  
 0.1 %: 8.64dB  
 0.01 %: 9.32dB



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## 4.2 B38\_10MHz

### 4.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.27	<=13	Pass
	2595	50	0	7.29	<=13	Pass
	2615	50	0	7.11	<=13	Pass
16QAM	2575	50	0	8.12	<=13	Pass
	2595	50	0	8.08	<=13	Pass
	2615	50	0	7.76	<=13	Pass
64QAM	2575	50	0	8.55	<=13	Pass
	2595	50	0	8.38	<=13	Pass
	2615	50	0	8.23	<=13	Pass

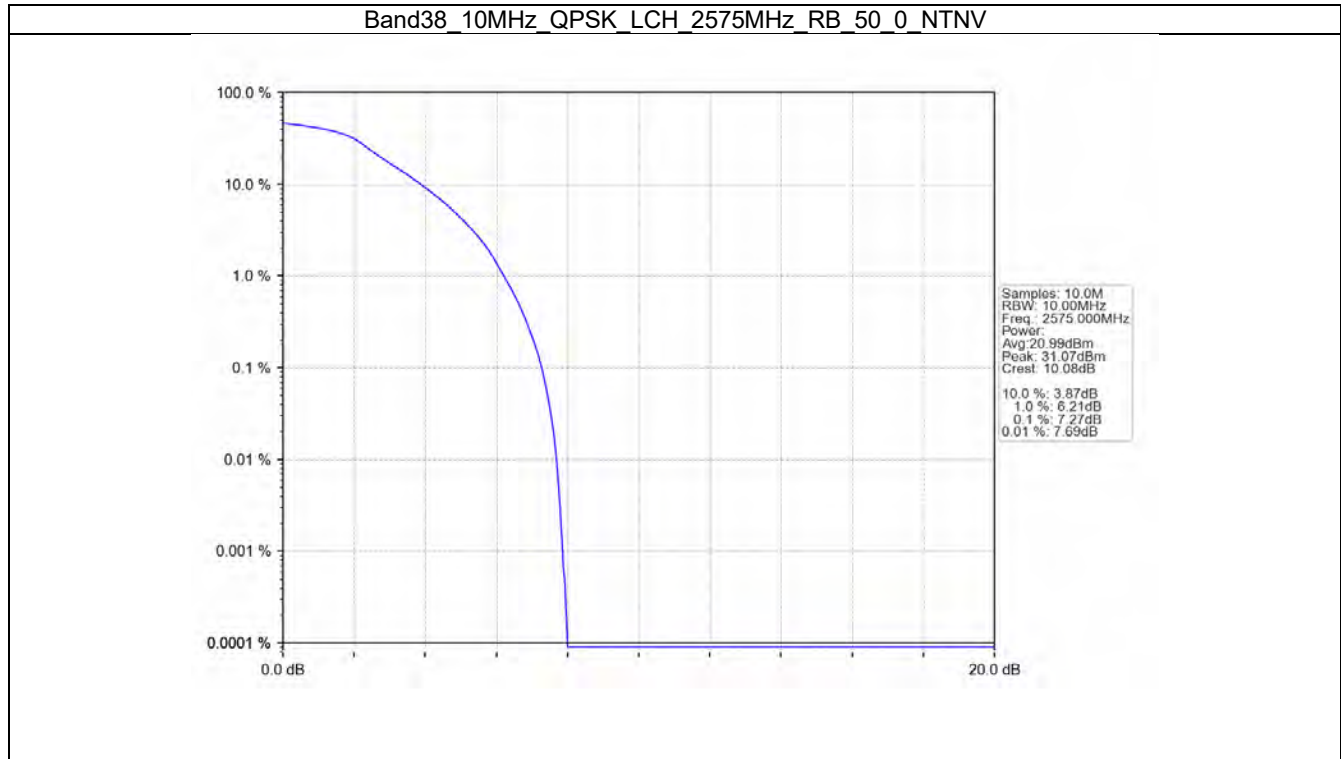


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4.2.2 Test Graph



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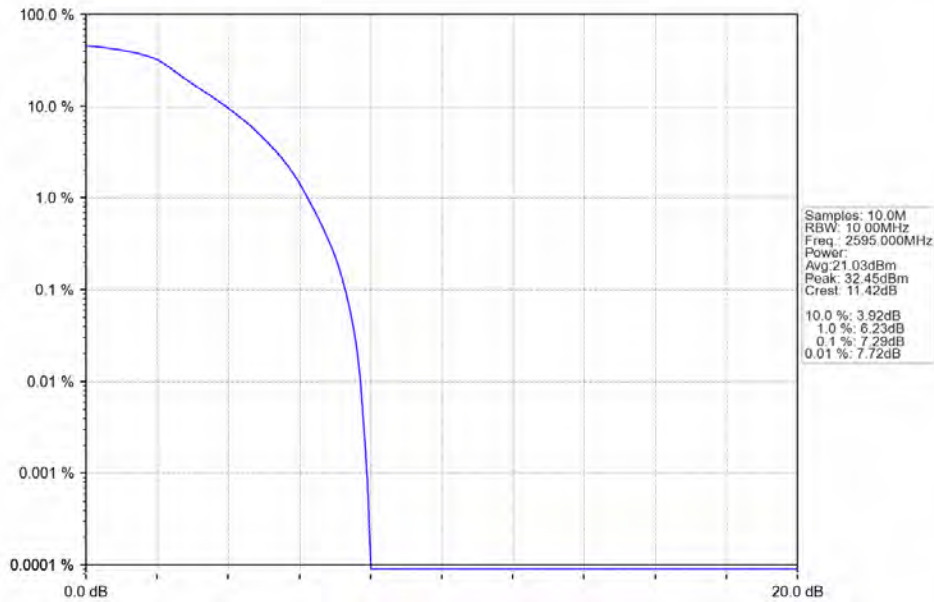


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Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_50\_0\_NTNV

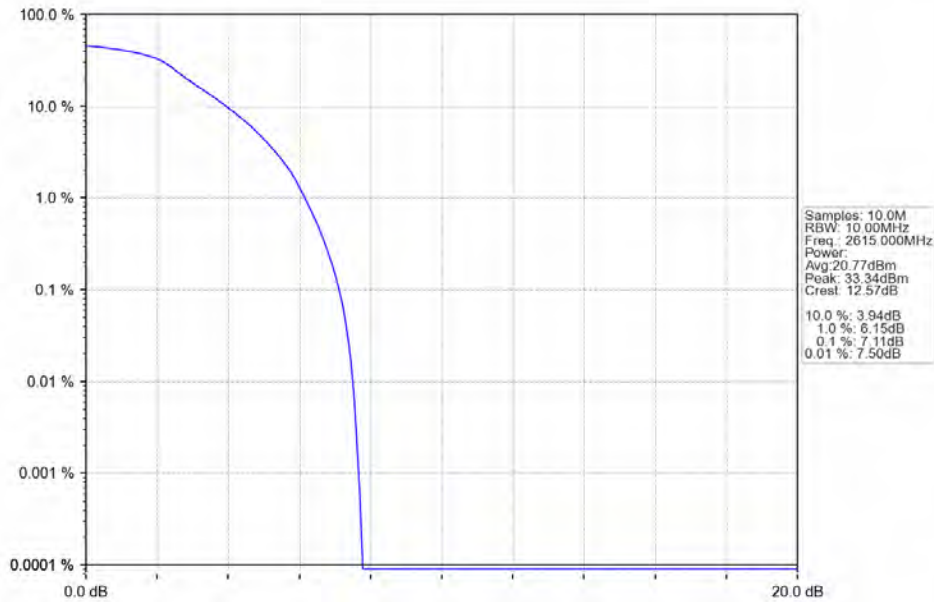


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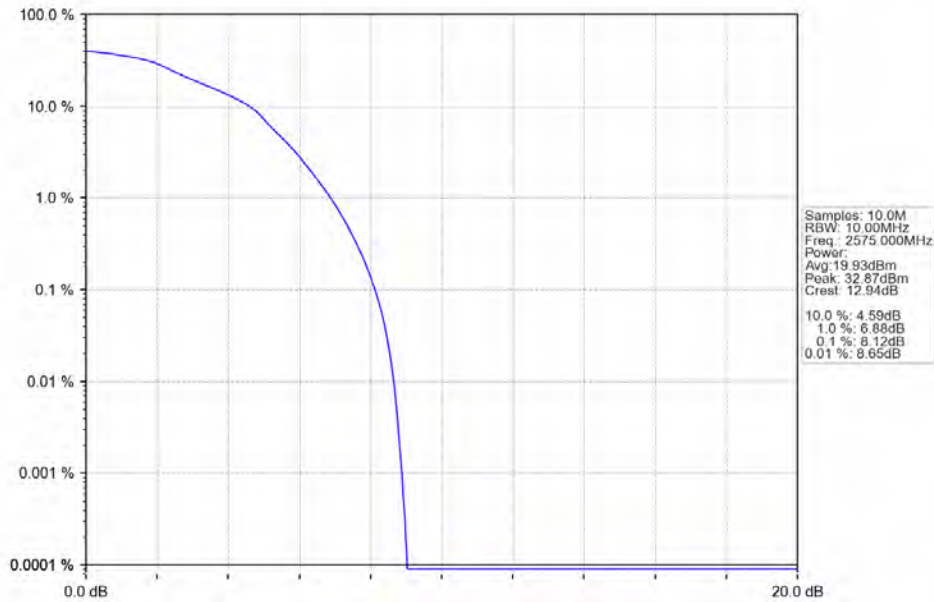
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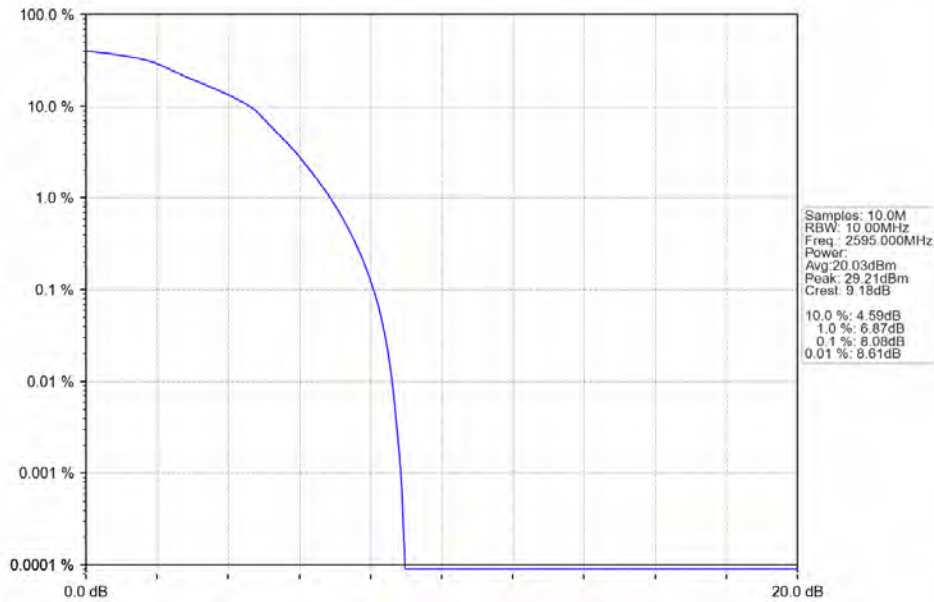
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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_50\_0\_NTNV



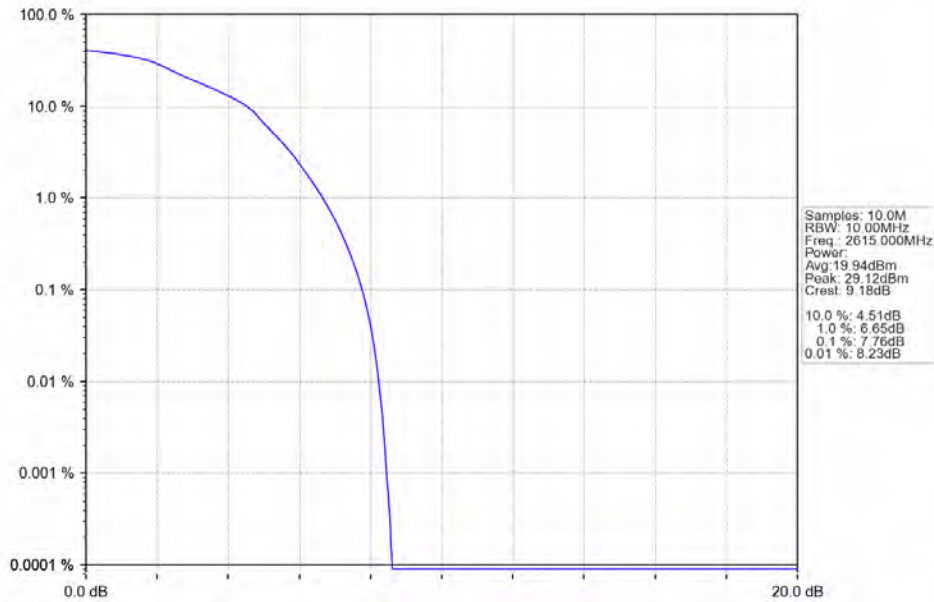
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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_50\_0\_NTNV



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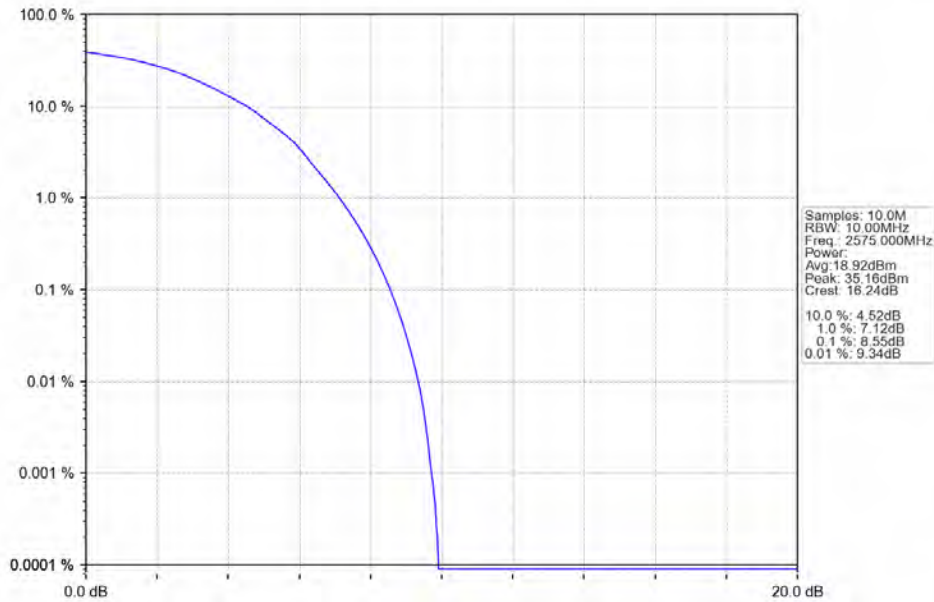
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Band38\_10MHz\_64QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV

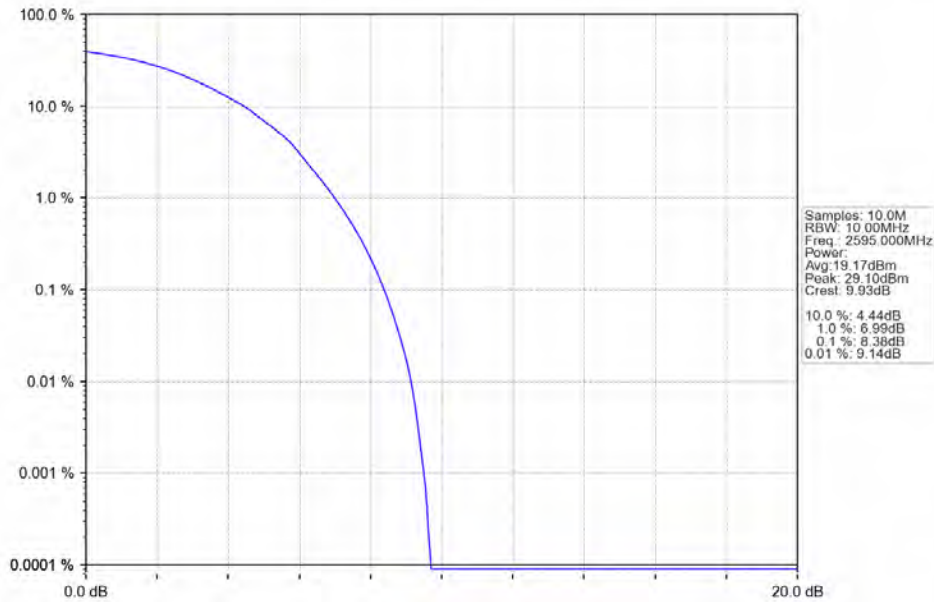


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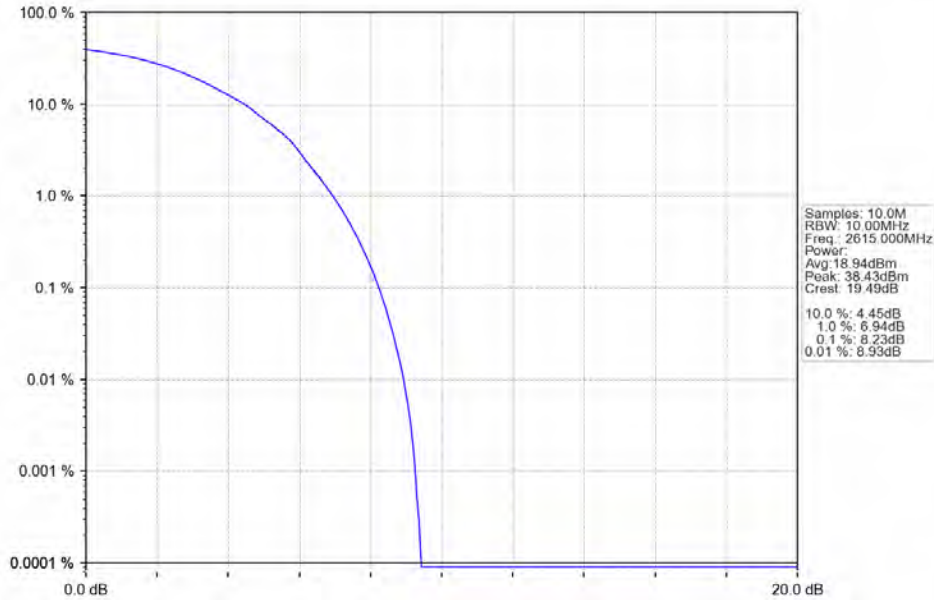
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### 4.3 B38\_15MHz

#### 4.3.1 Test Result

Band: 38 / Bandwidth: 15MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.28	<=13	Pass
	2595	75	0	7.08	<=13	Pass
	2612.5	75	0	7.06	<=13	Pass
16QAM	2577.5	75	0	8.42	<=13	Pass
	2595	75	0	8.05	<=13	Pass
	2612.5	75	0	7.95	<=13	Pass
64QAM	2577.5	75	0	8.46	<=13	Pass
	2595	75	0	8.53	<=13	Pass
	2612.5	75	0	8.32	<=13	Pass

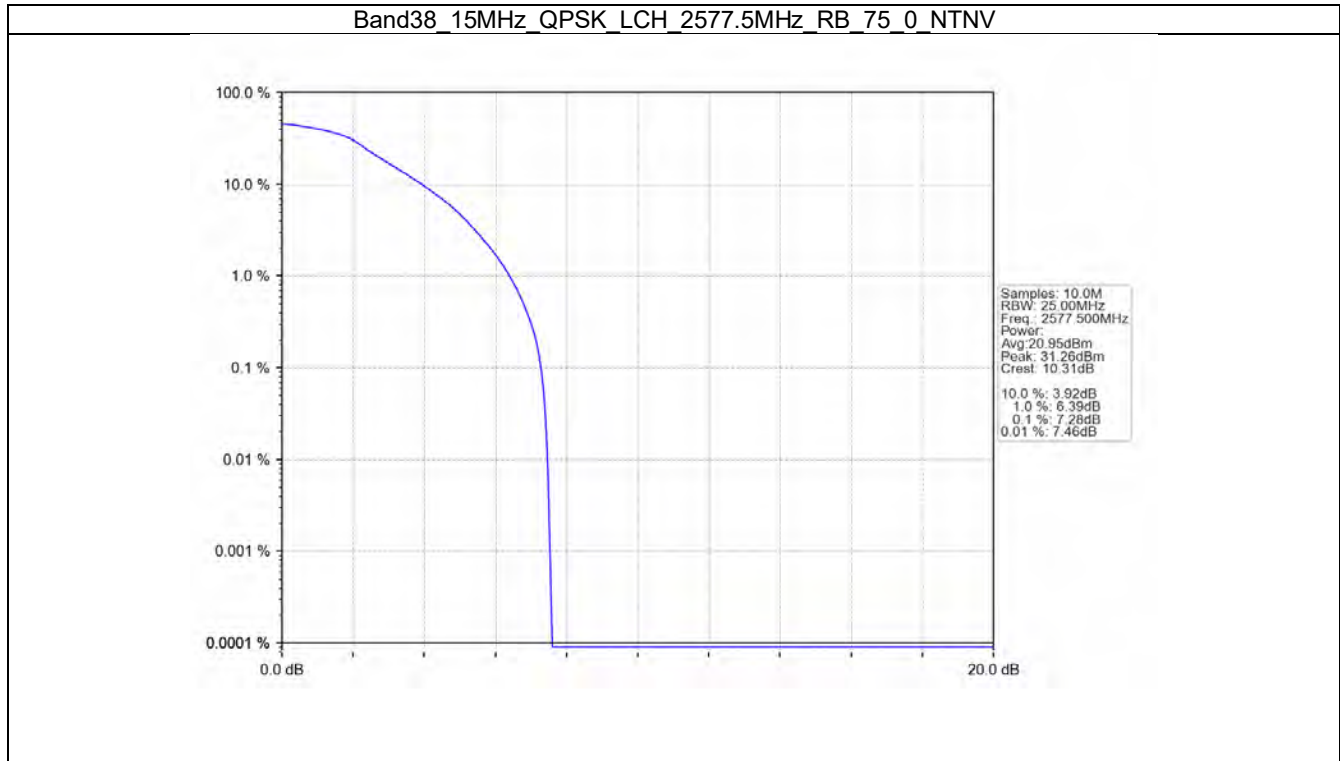


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4.3.2 Test Graph



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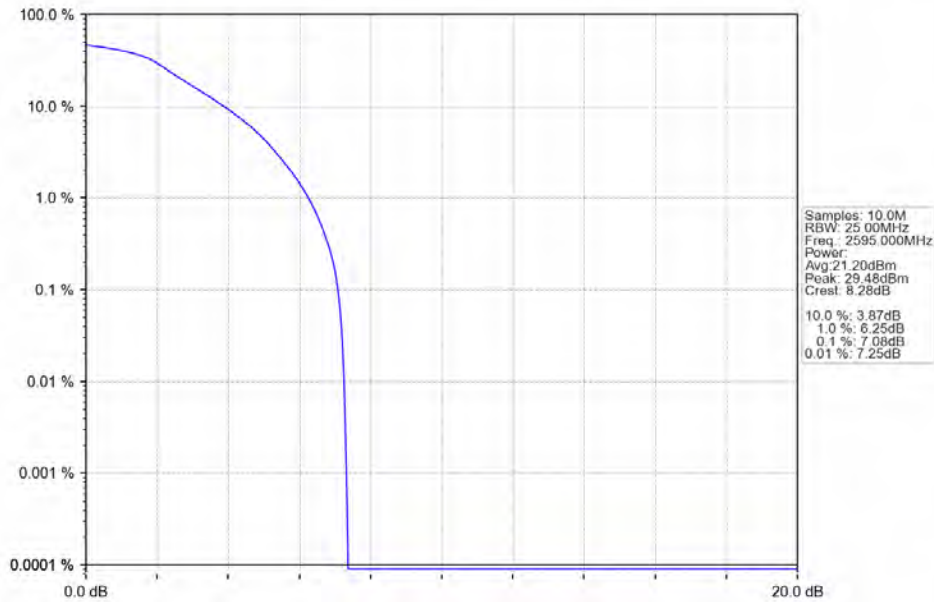
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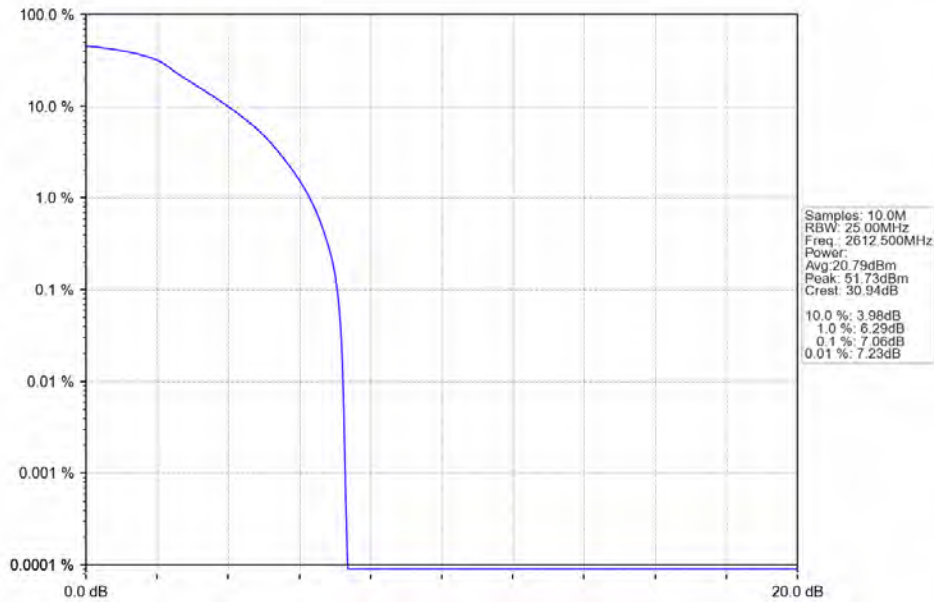


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Band38\_15MHz\_QPSK\_HCH\_2612.5MHz\_RB\_75\_0\_NTNV



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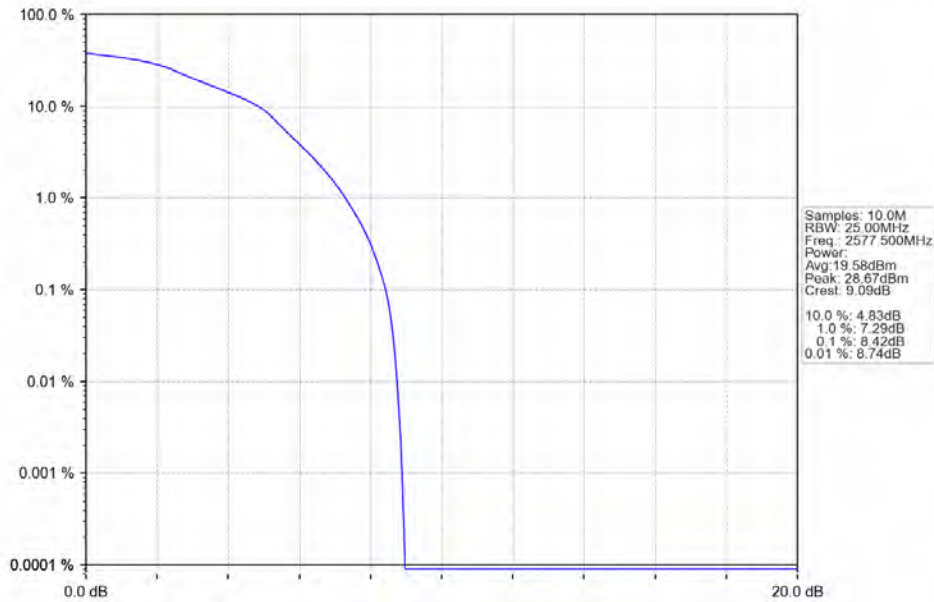


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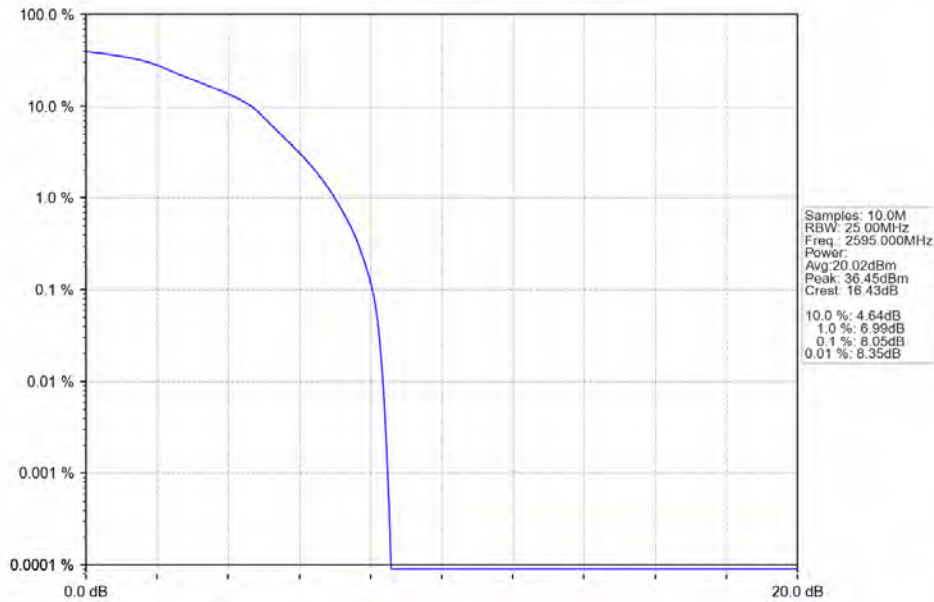
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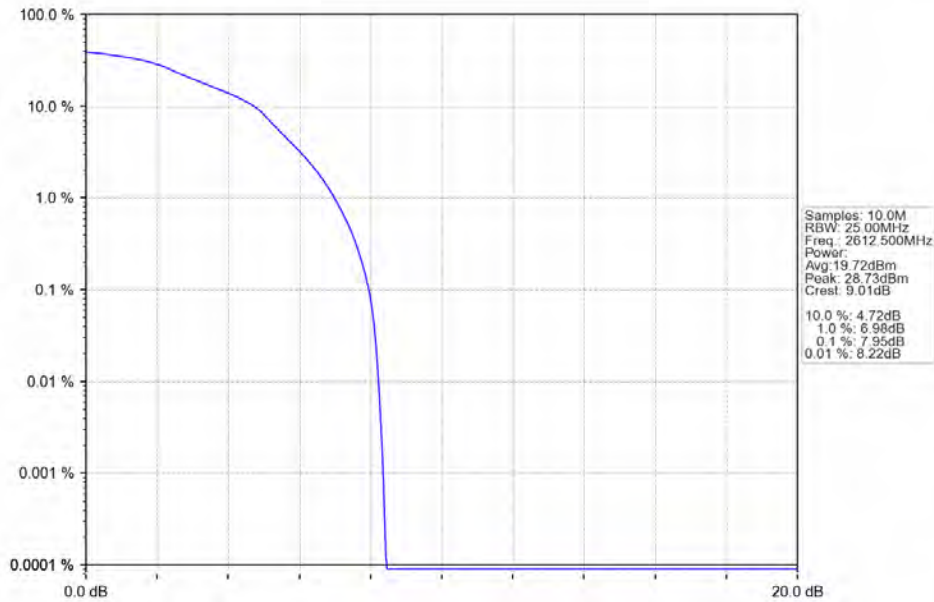
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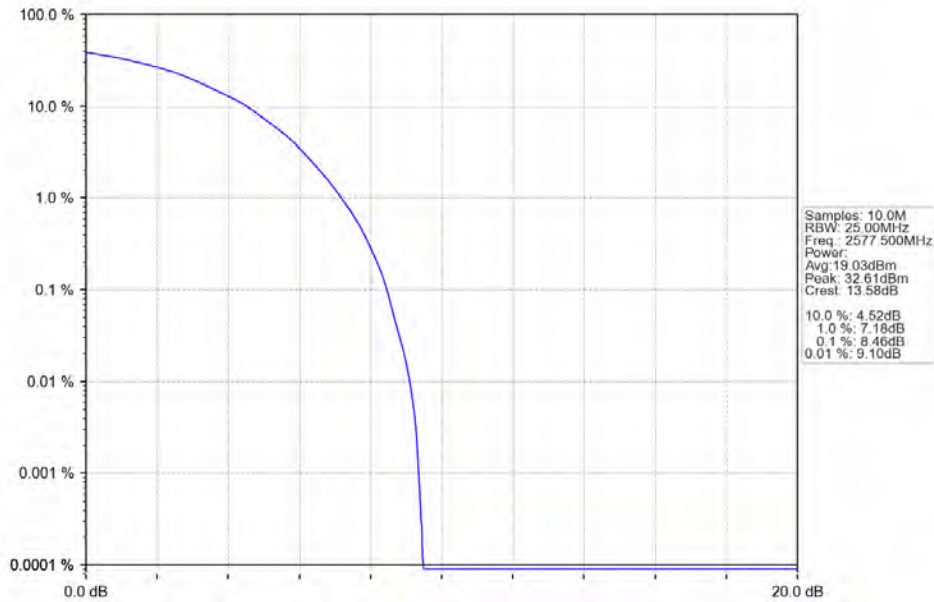
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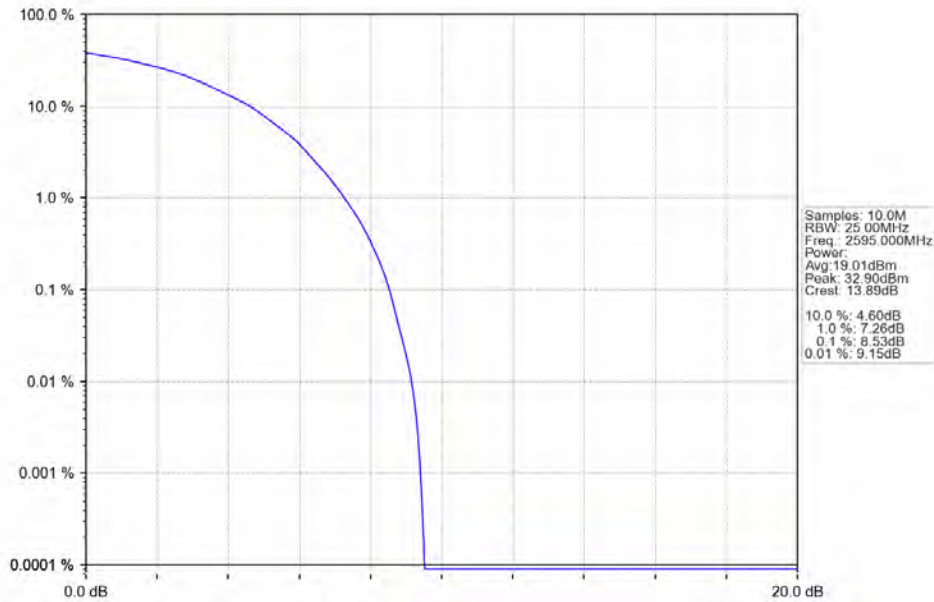
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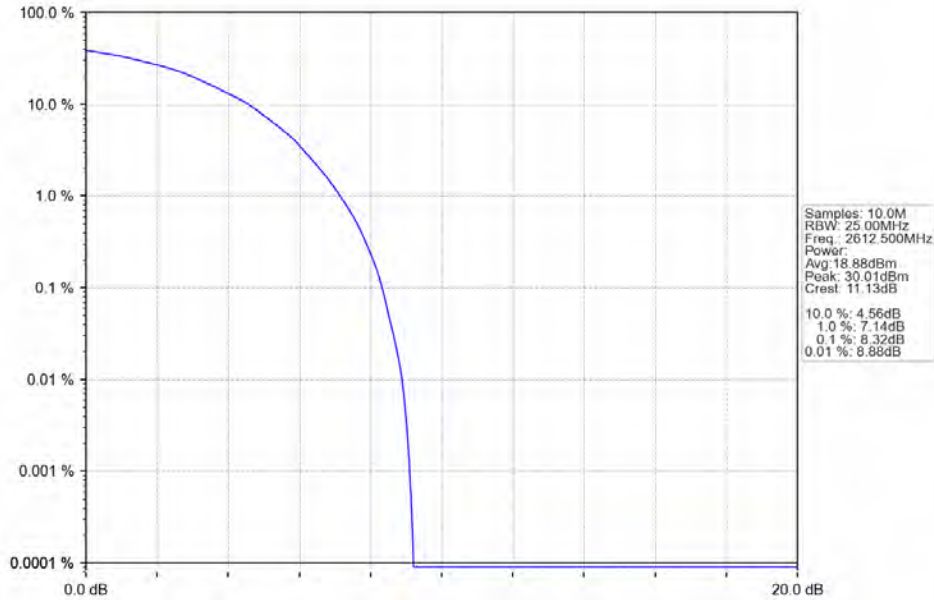
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#### 4.4 B38\_20MHz

##### 4.4.1 Test Result

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.15	<=13	Pass
	2595	100	0	7.40	<=13	Pass
	2610	100	0	6.87	<=13	Pass
16QAM	2580	100	0	7.99	<=13	Pass
	2595	100	0	8.08	<=13	Pass
	2610	100	0	7.95	<=13	Pass
64QAM	2580	100	0	8.43	<=13	Pass
	2595	100	0	8.49	<=13	Pass
	2610	100	0	8.36	<=13	Pass

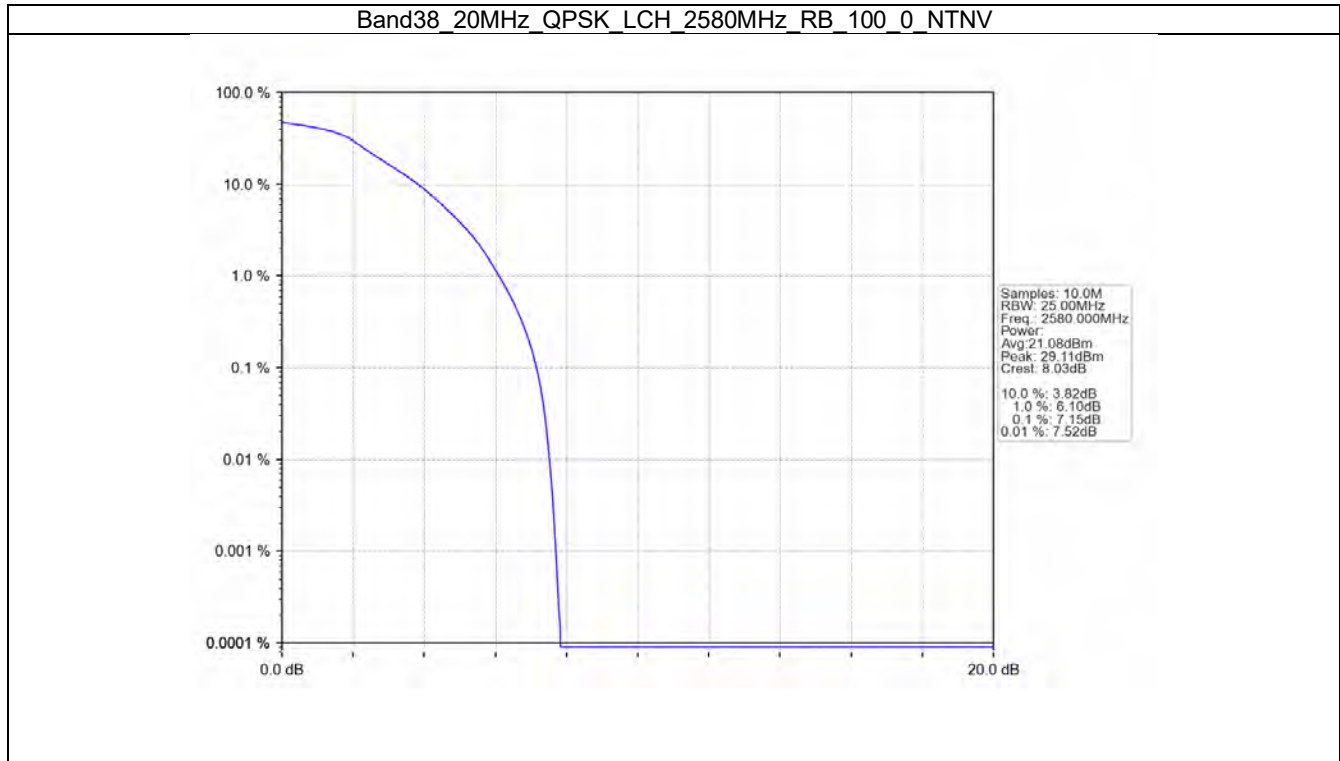


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4.4.2 Test Graph



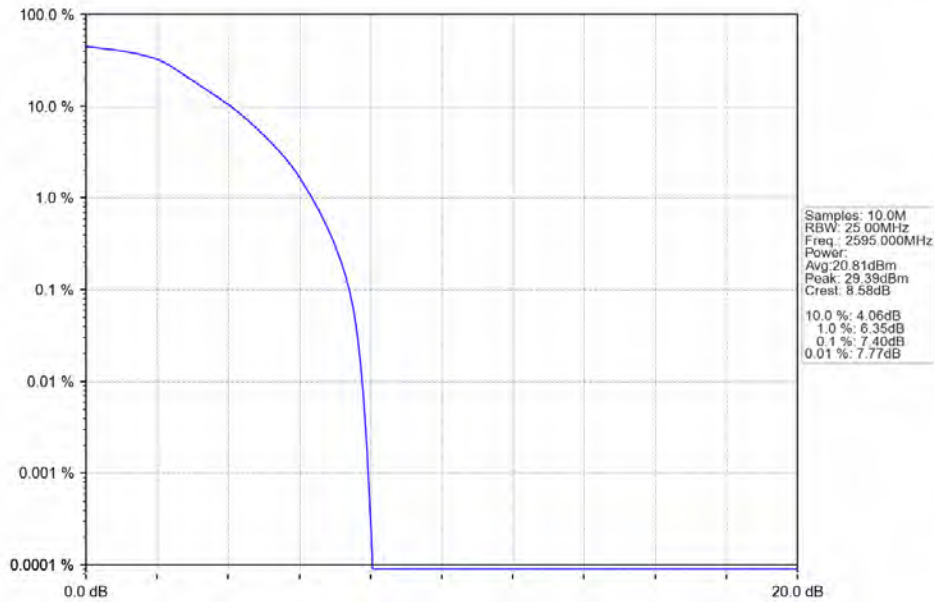
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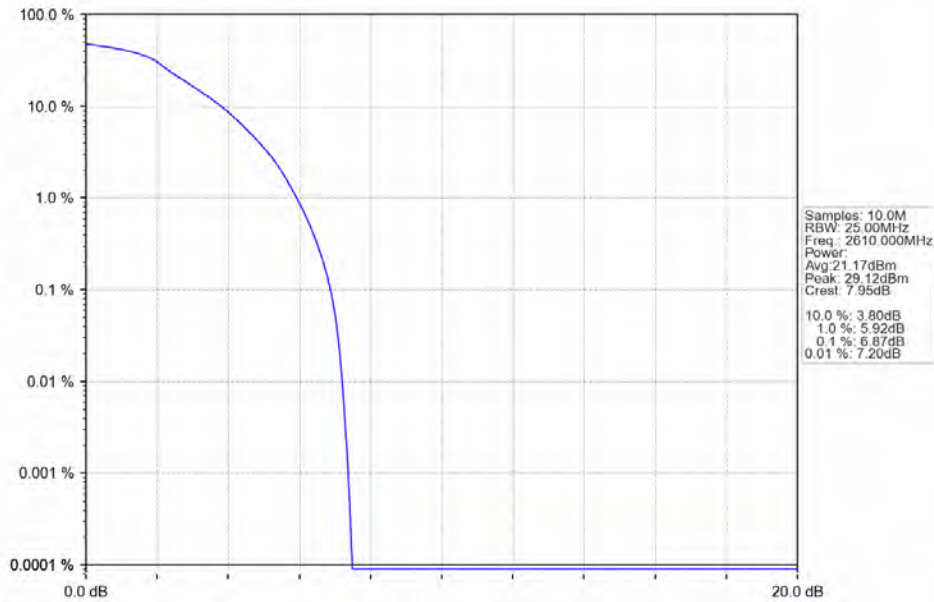


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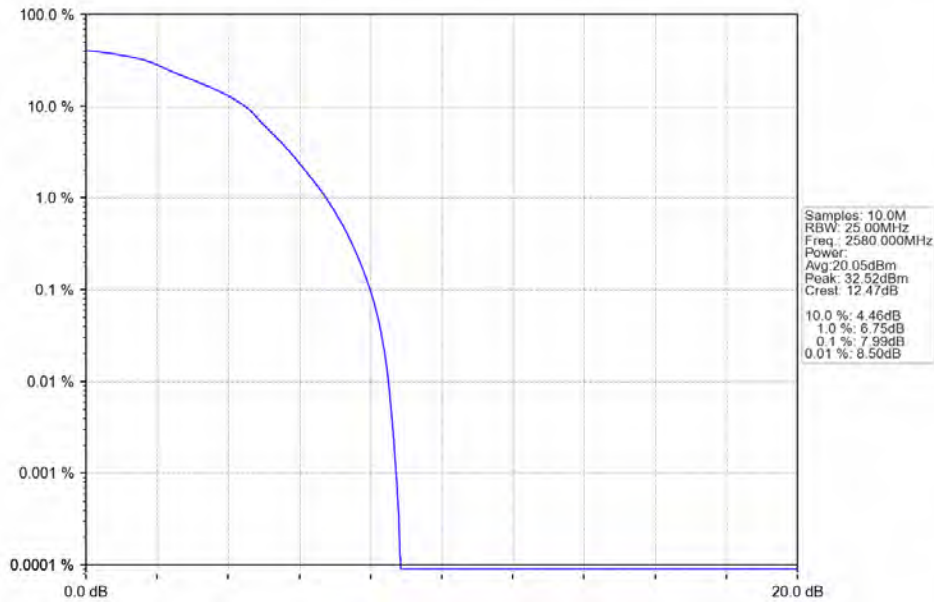


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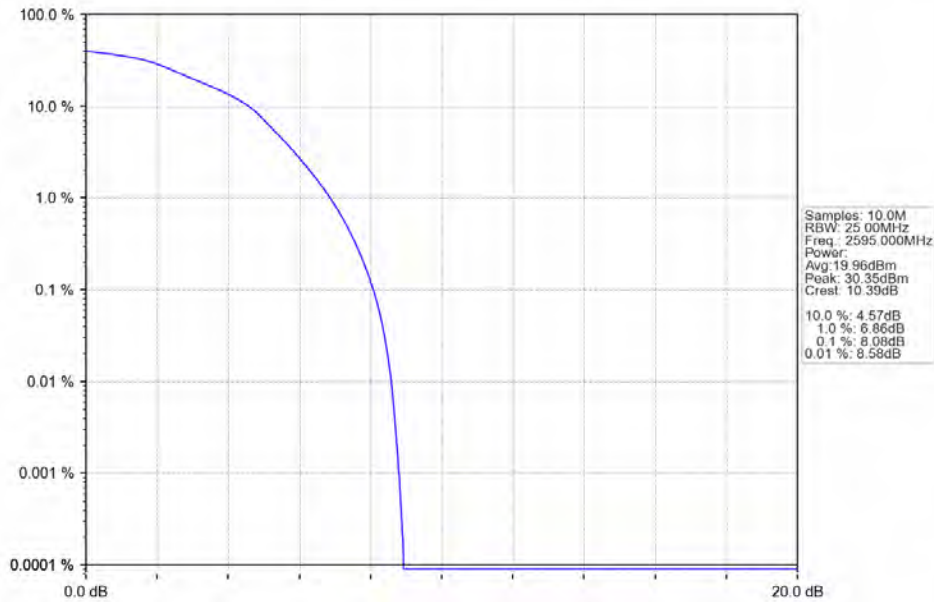
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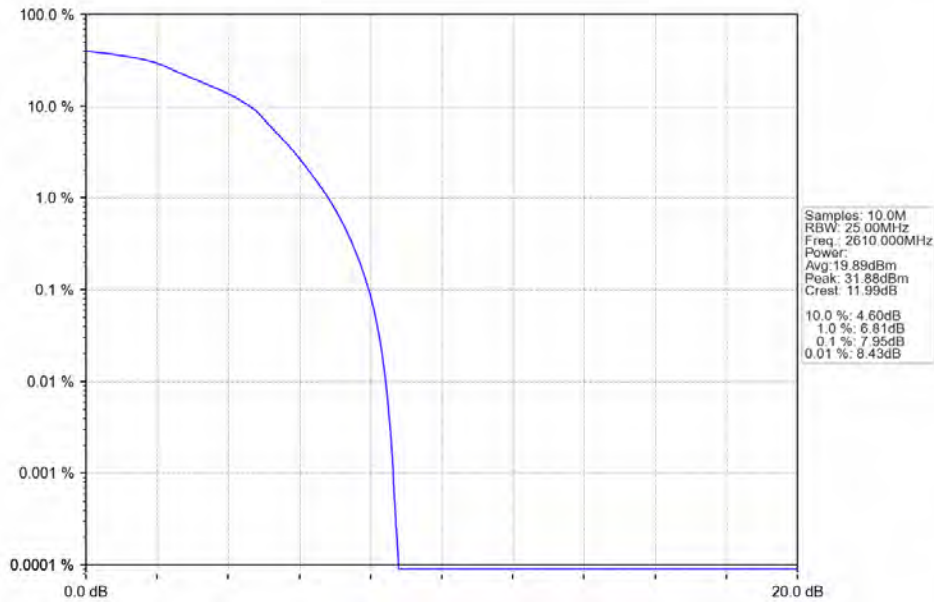


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Band38\_20MHz\_16QAM\_HCH\_2610MHz\_RB\_100\_0\_NTNV

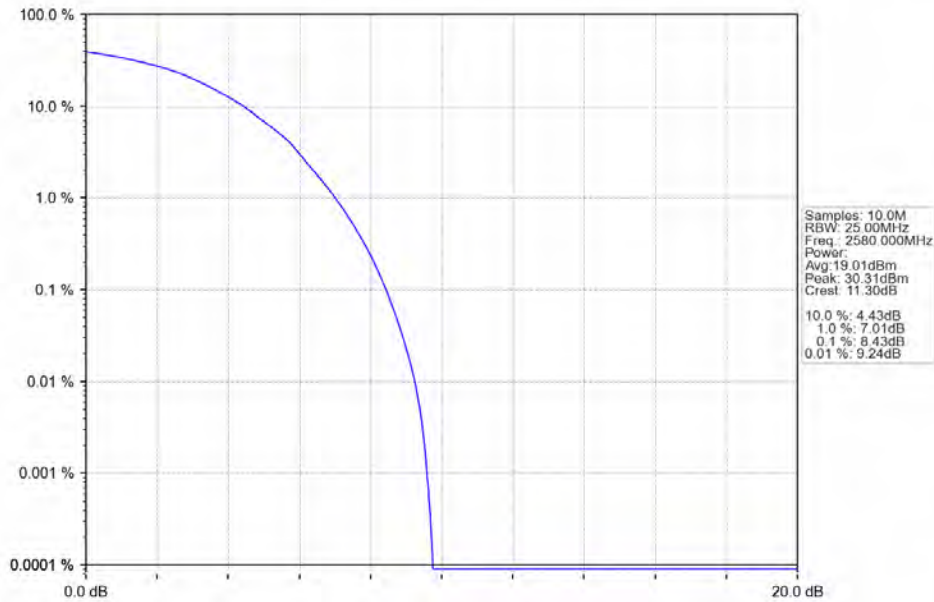


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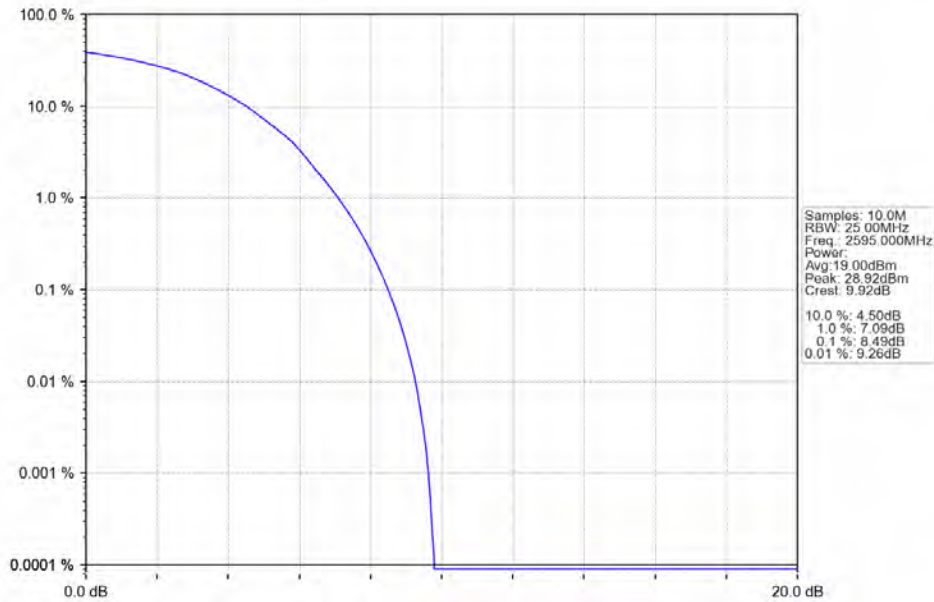
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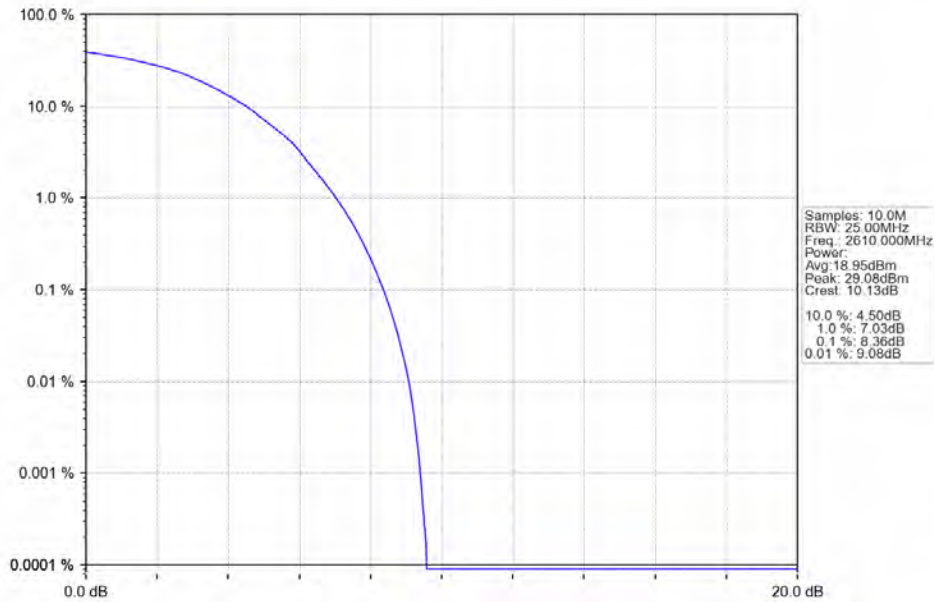
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## 5. Spurious Emission & Band Edges

### 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	

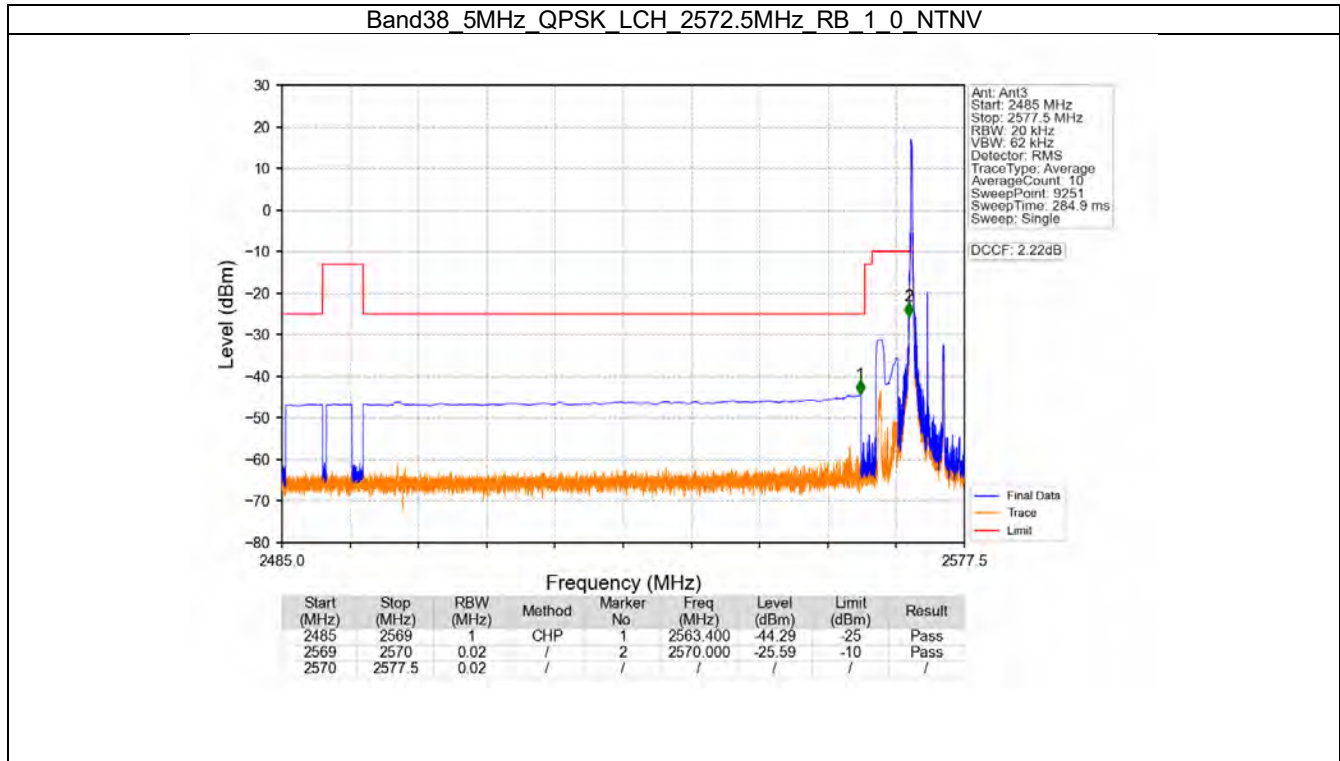


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5.1.2 Test Graph

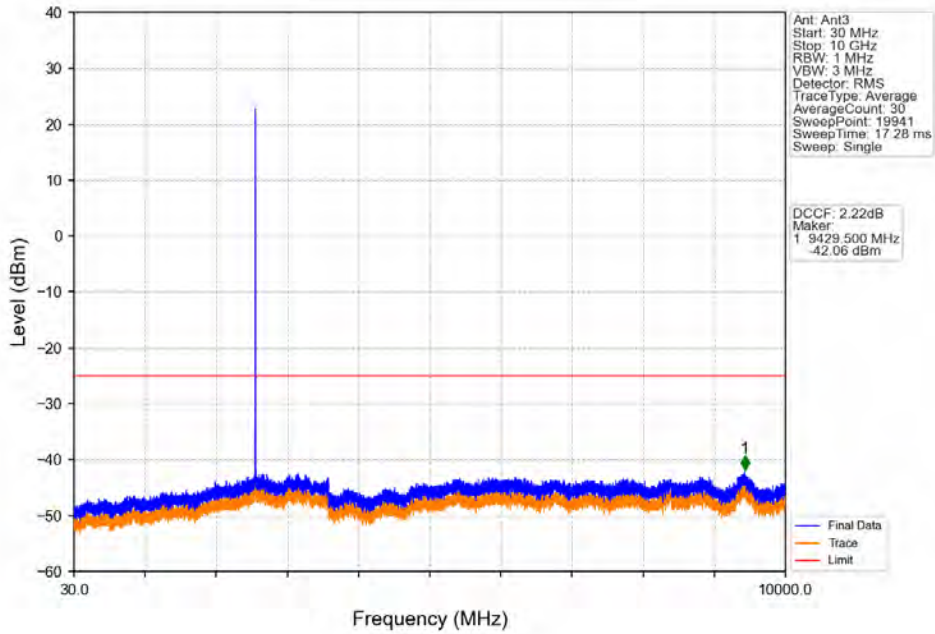


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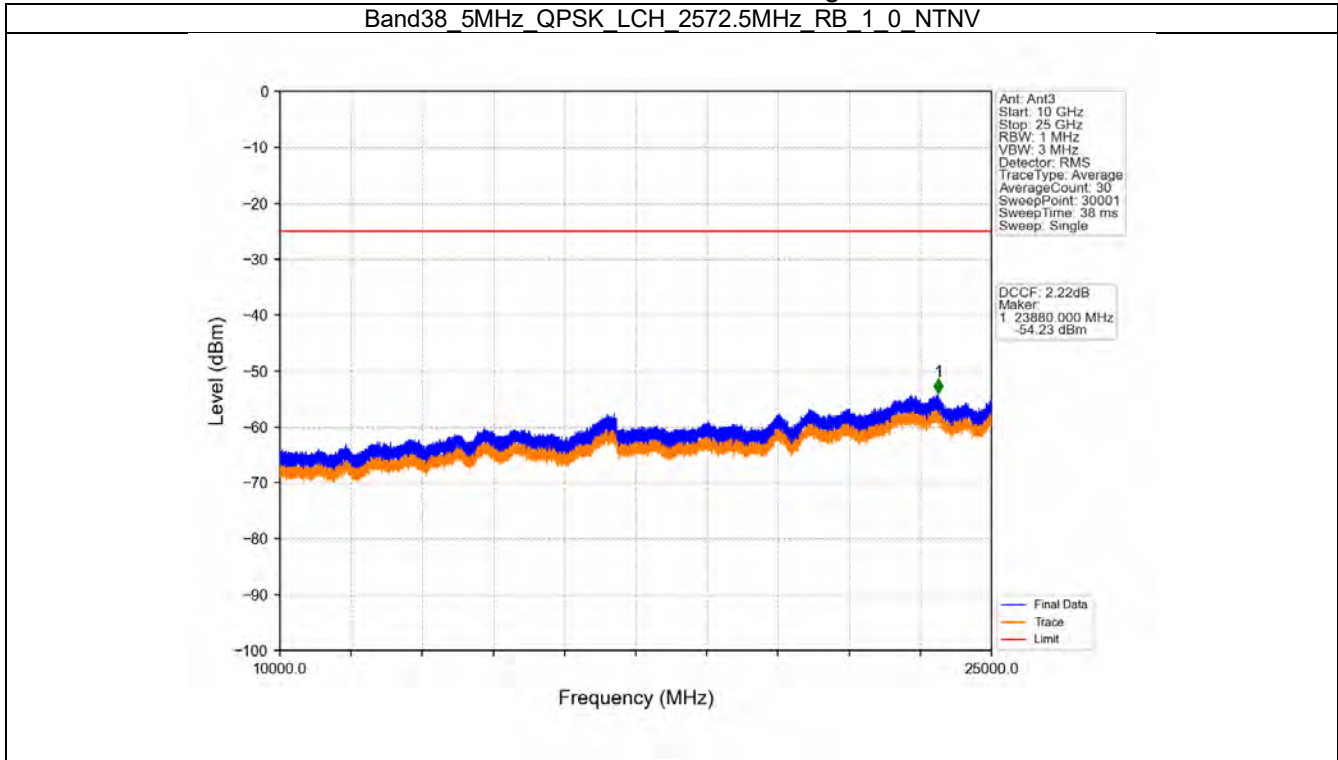


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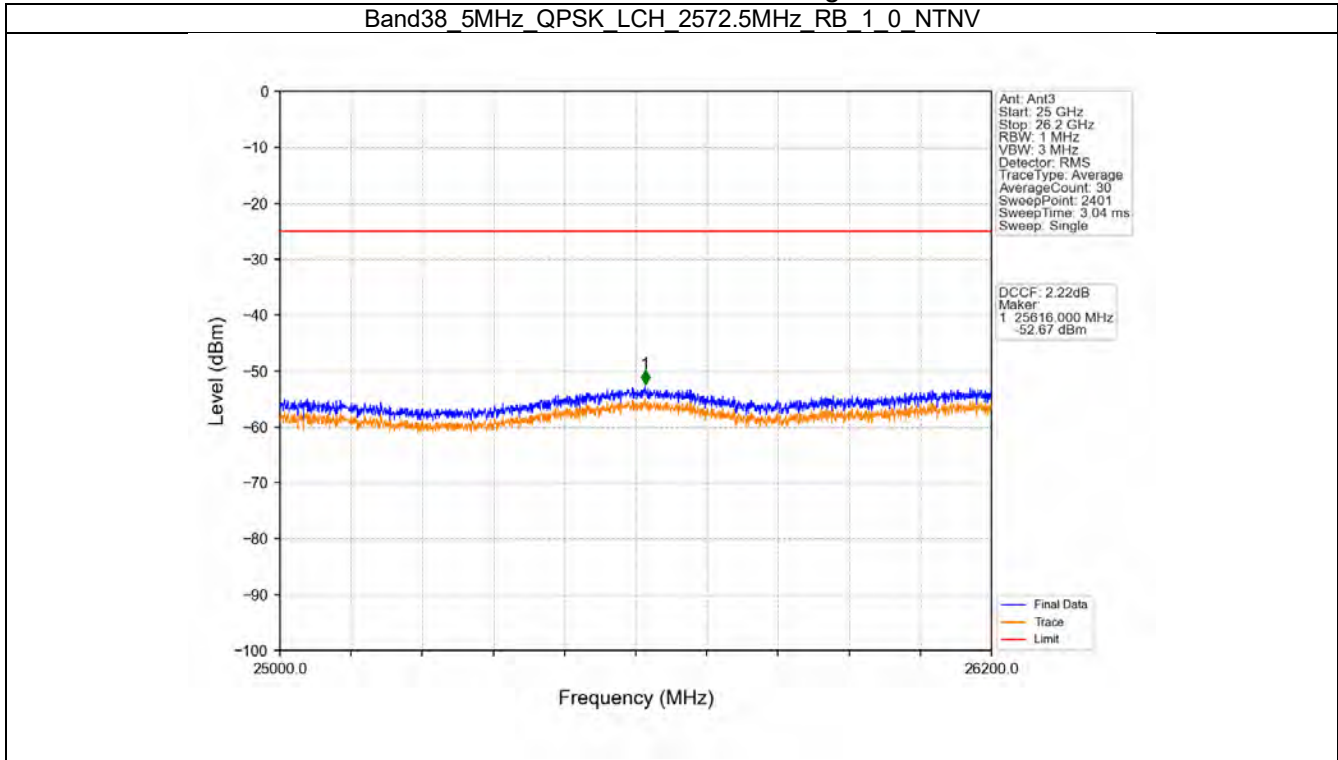
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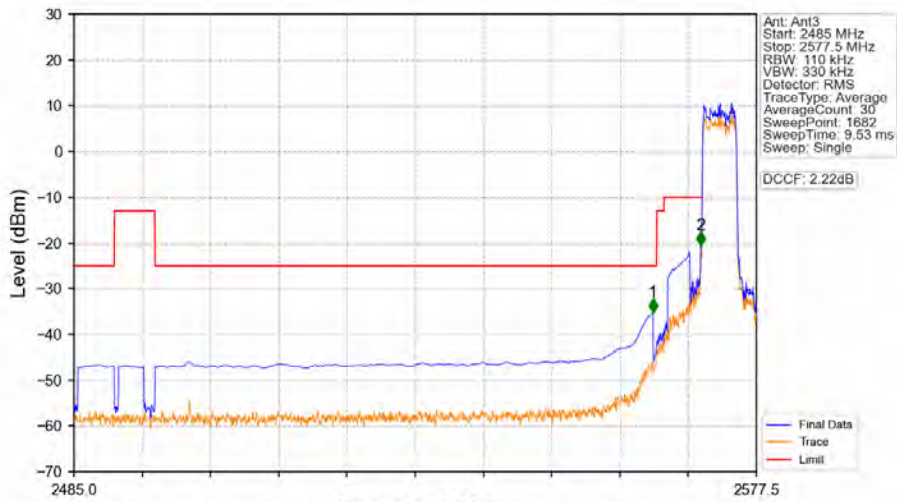


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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.468	-35.17	-25	Pass
2569	2570	0.11	/	2	2569.961	-20.54	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/

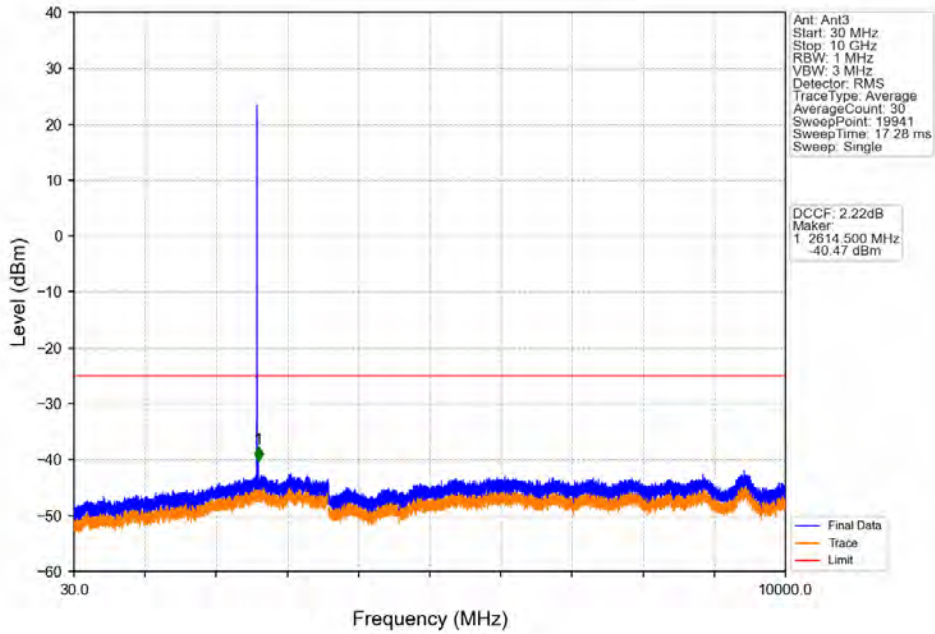


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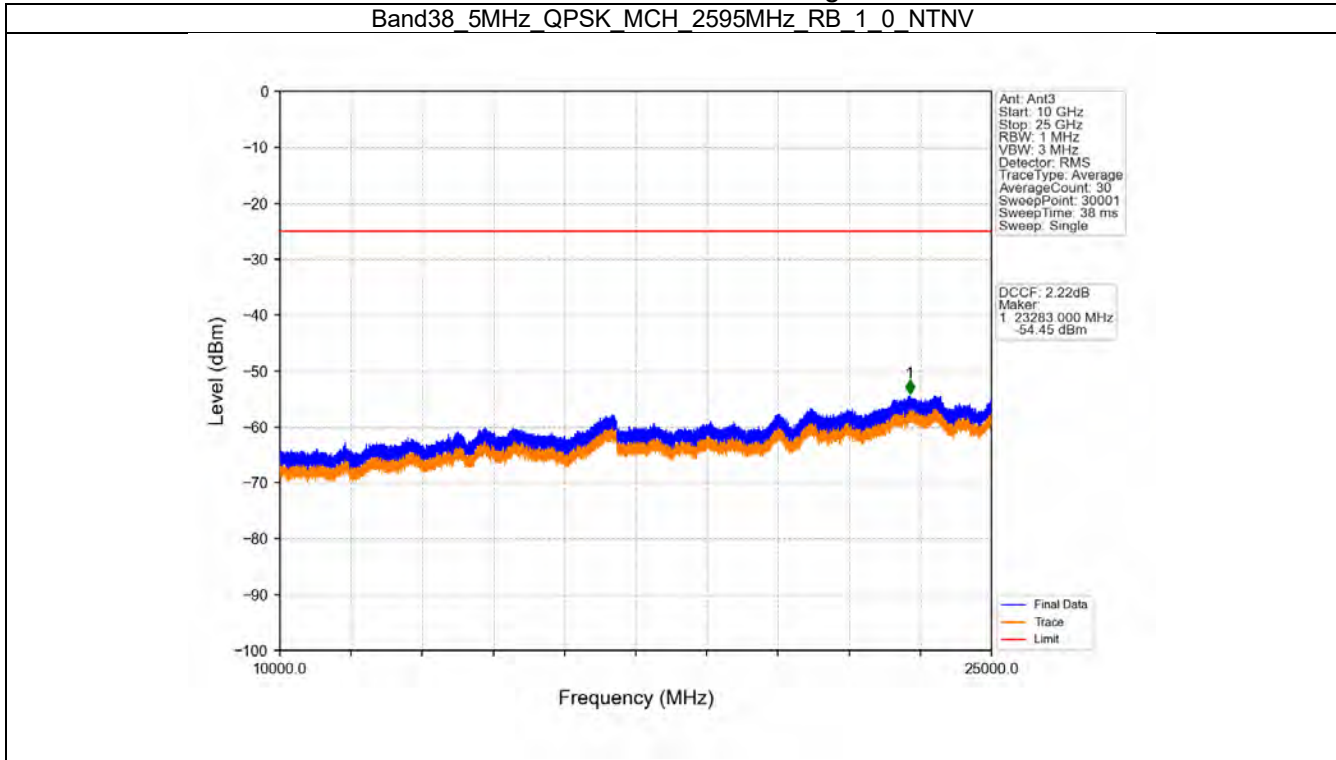


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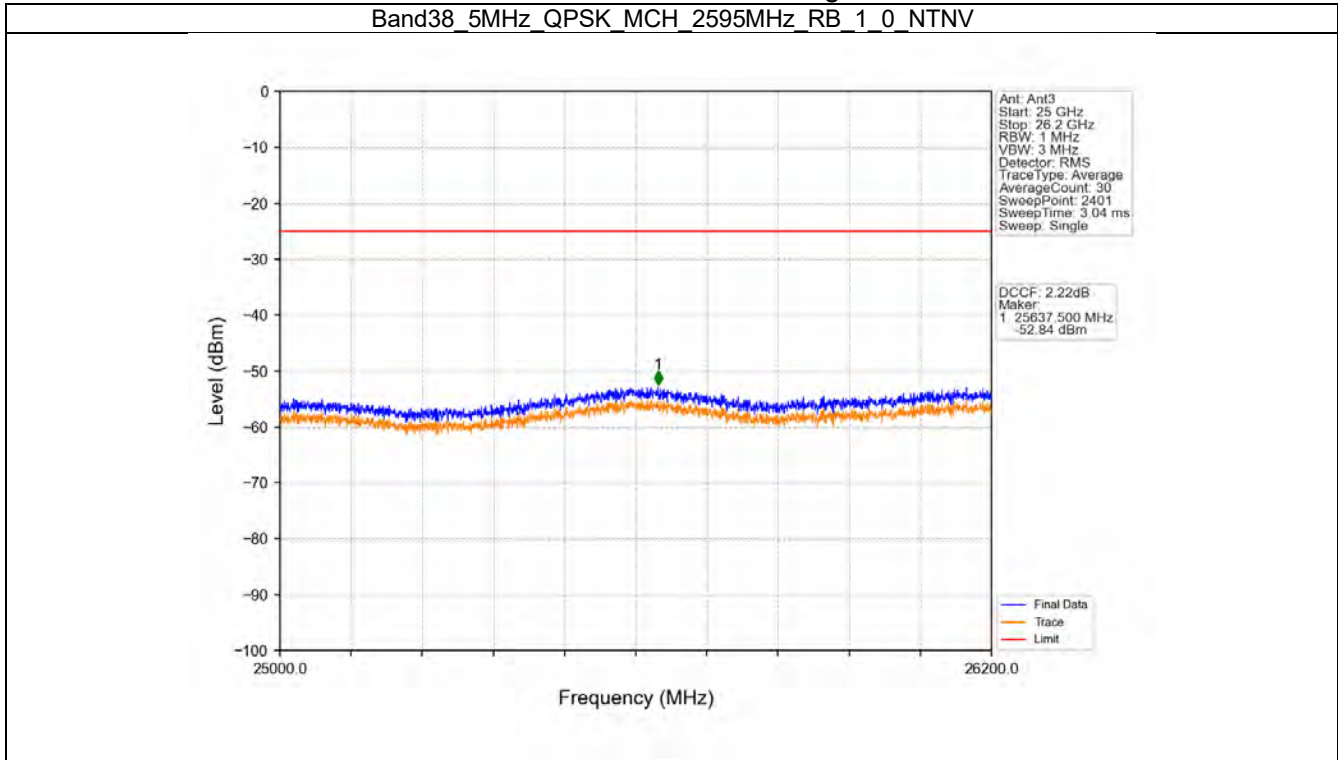
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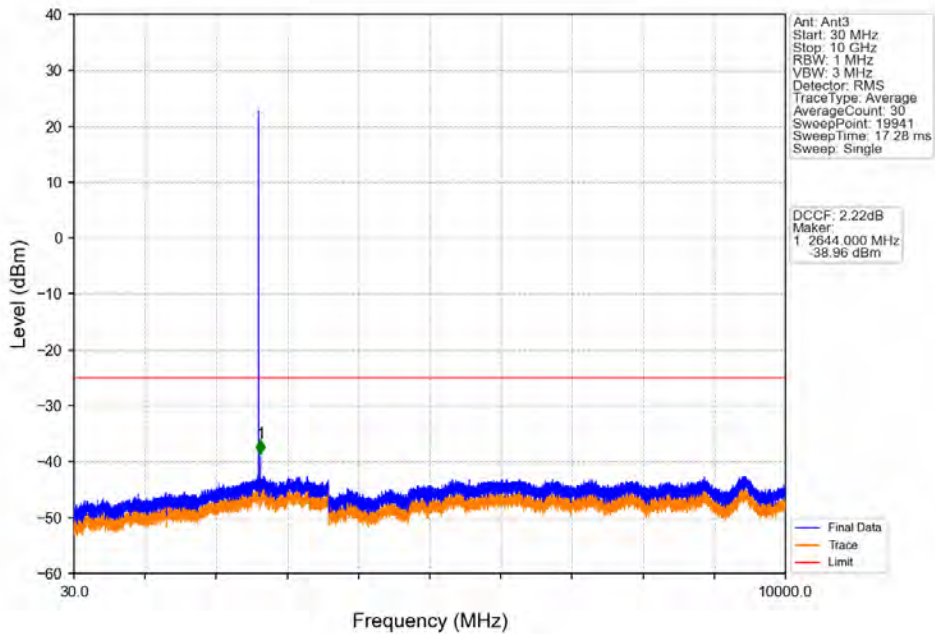


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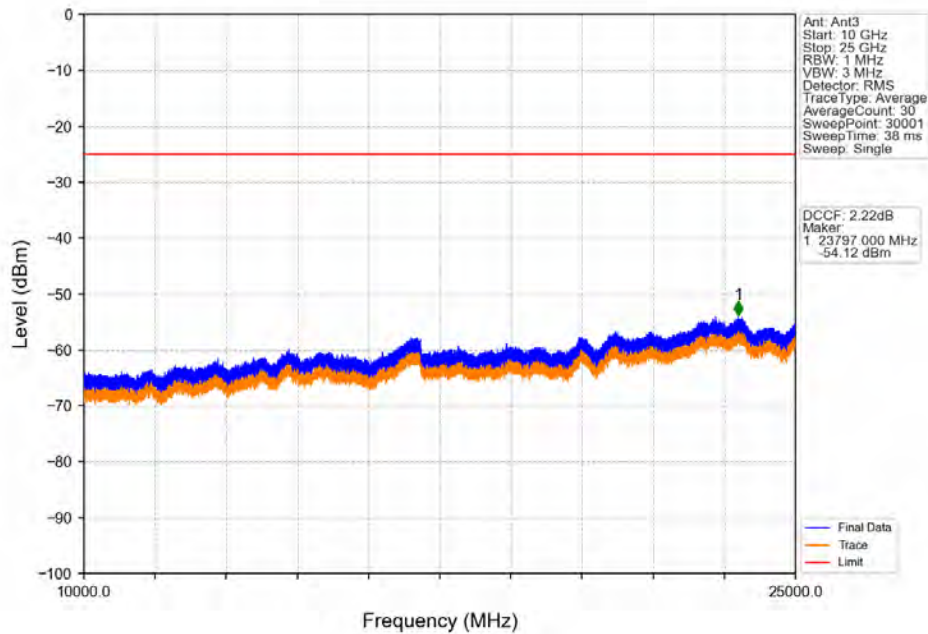
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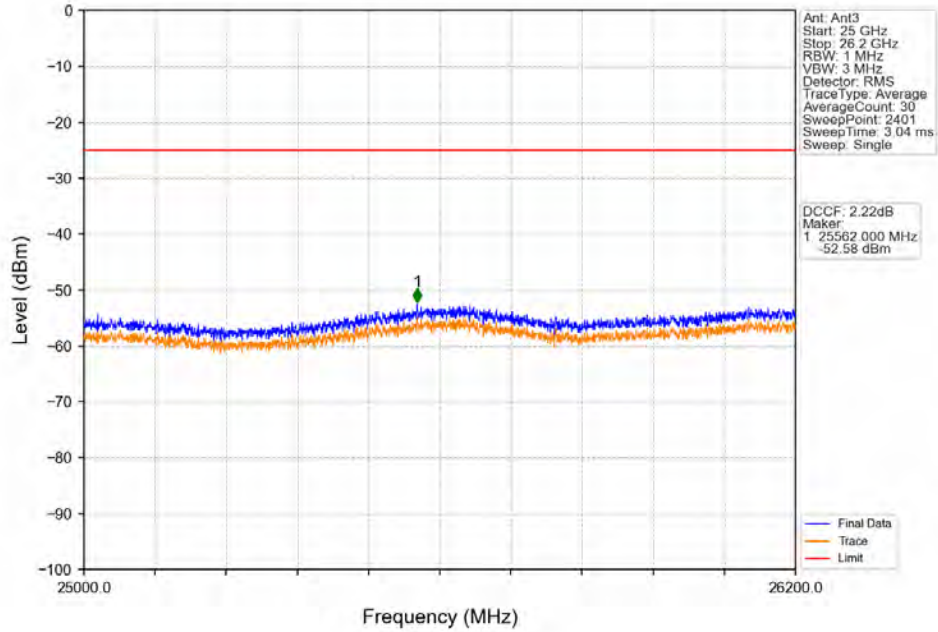


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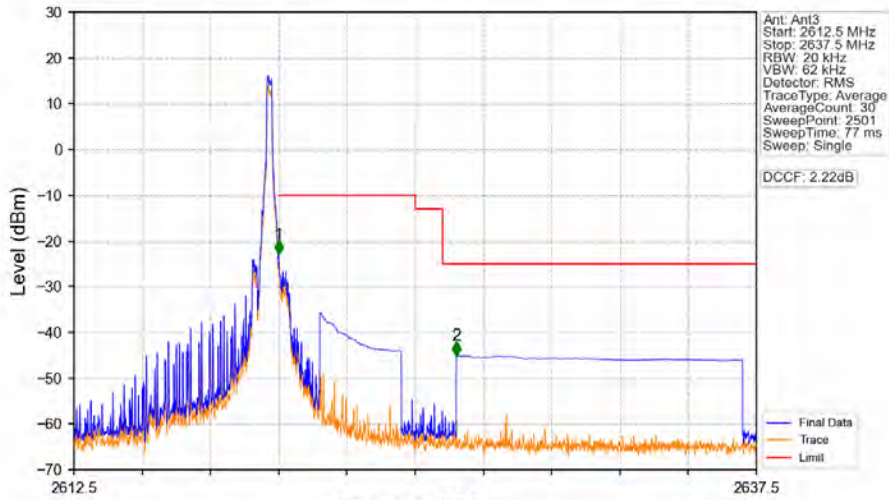


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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.000	-22.98	-10	Pass
2620	2621	0.02	/	/	/	/	/	/
2621	2637.5	1	CHP	2	2626.510	-45.06	-25	Pass

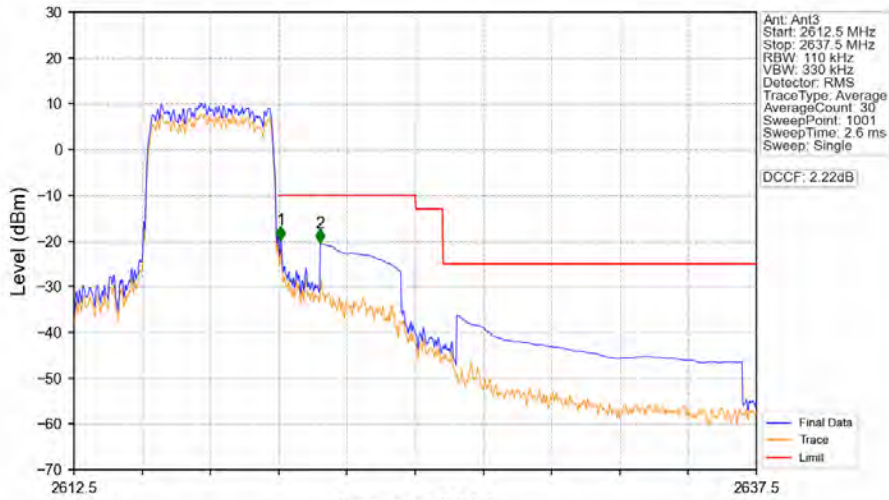


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Band38\_5MHz\_QPSK\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	1	2620.075	-19.85	-10	Pass
2620	2621	0.11	/	2	2621.525	-20.49	-10	Pass
2621	2637.5	1	CHP					

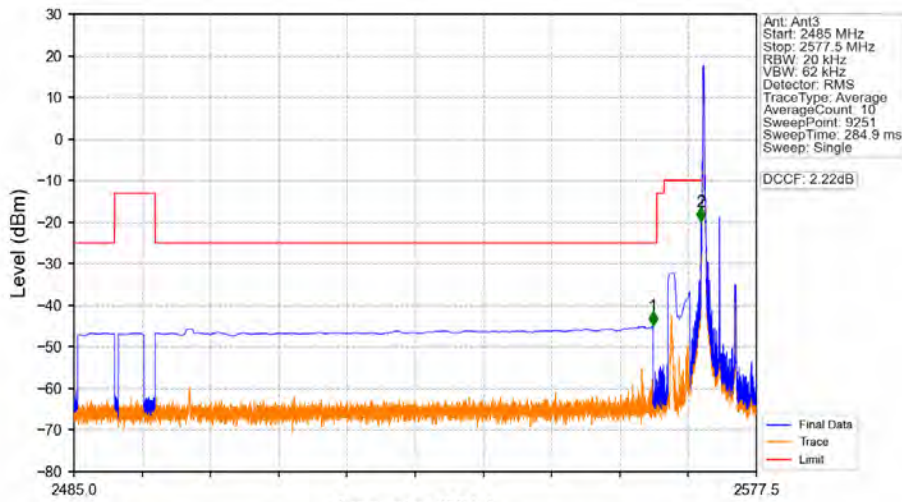


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Band38\_5MHz\_16QAM\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.490	-44.92	-25	Pass
2569	2570	0.02	/	2	2570.000	-19.94	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/

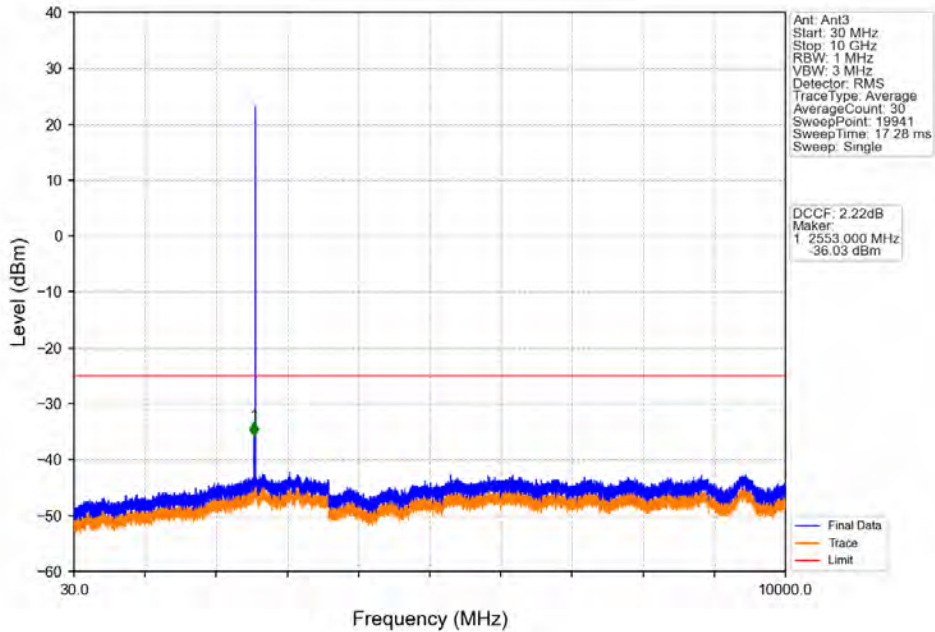


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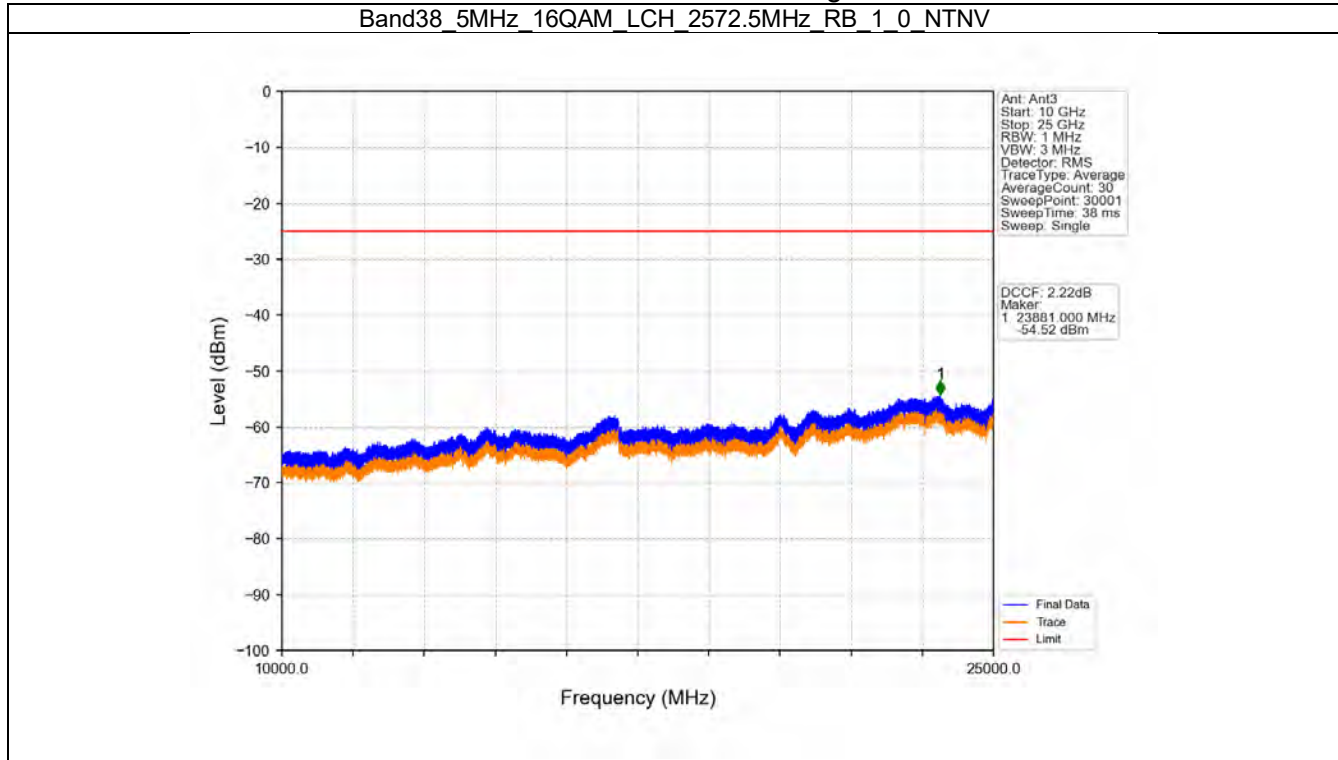
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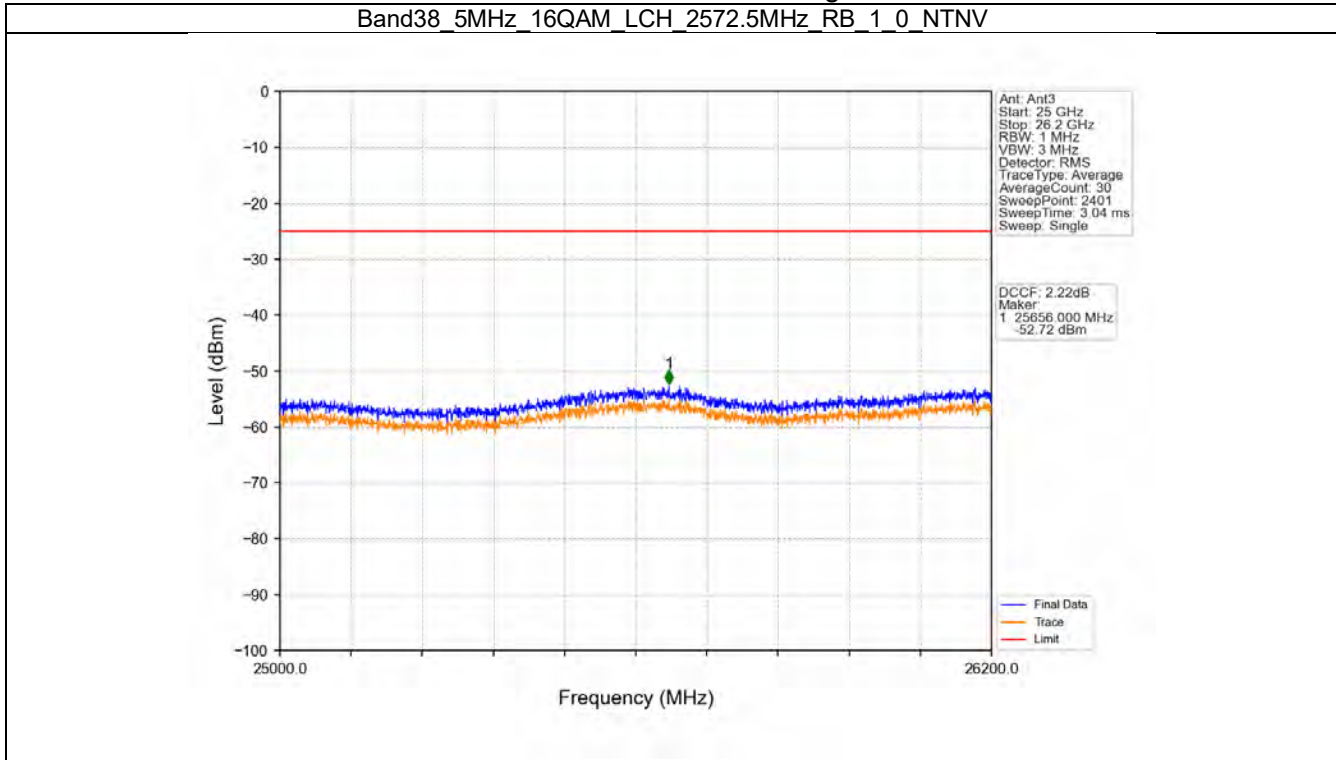
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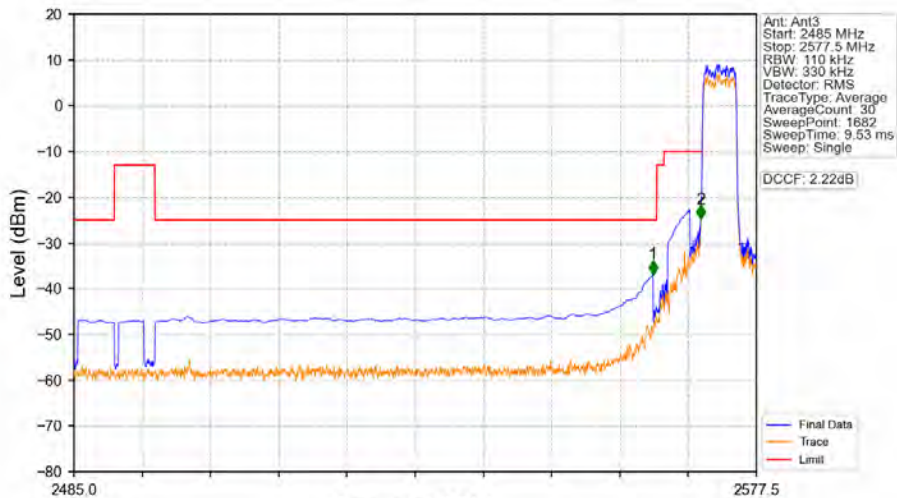
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2485	2569	0.11	CHP	1	2563.468	-36.88	-25	Pass
2569	2570	0.11	/	2	2569.961	-24.74	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/

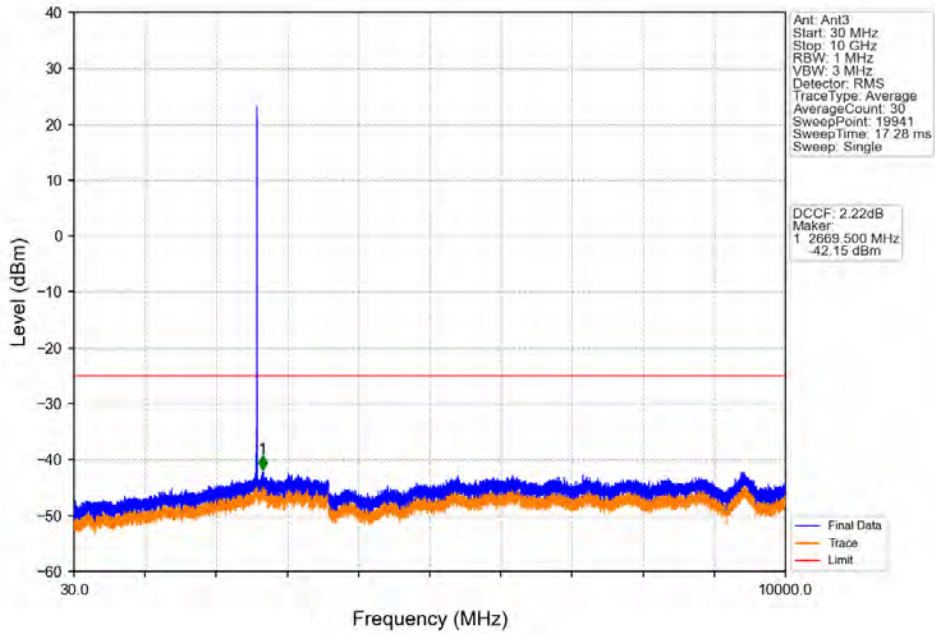


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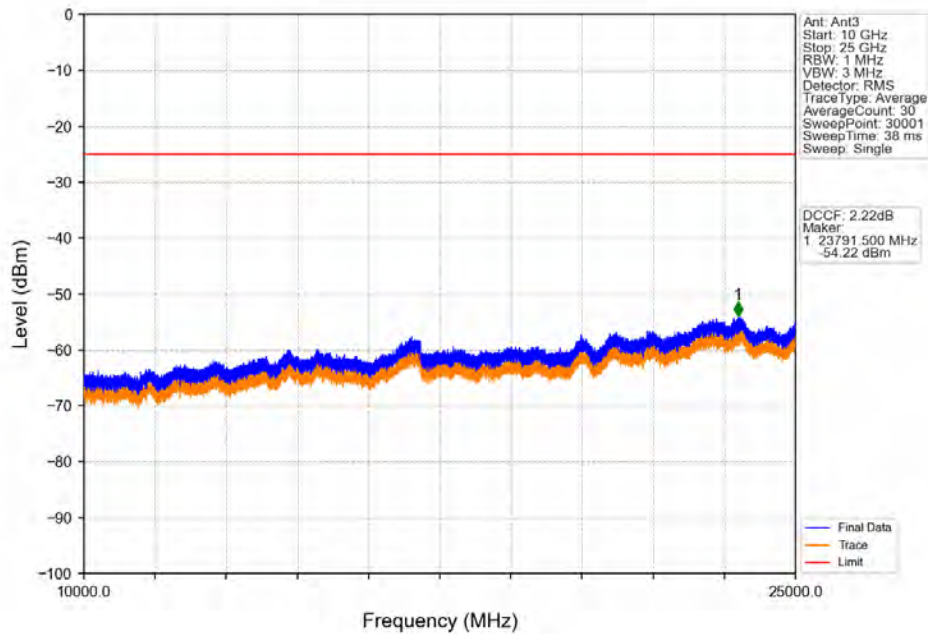
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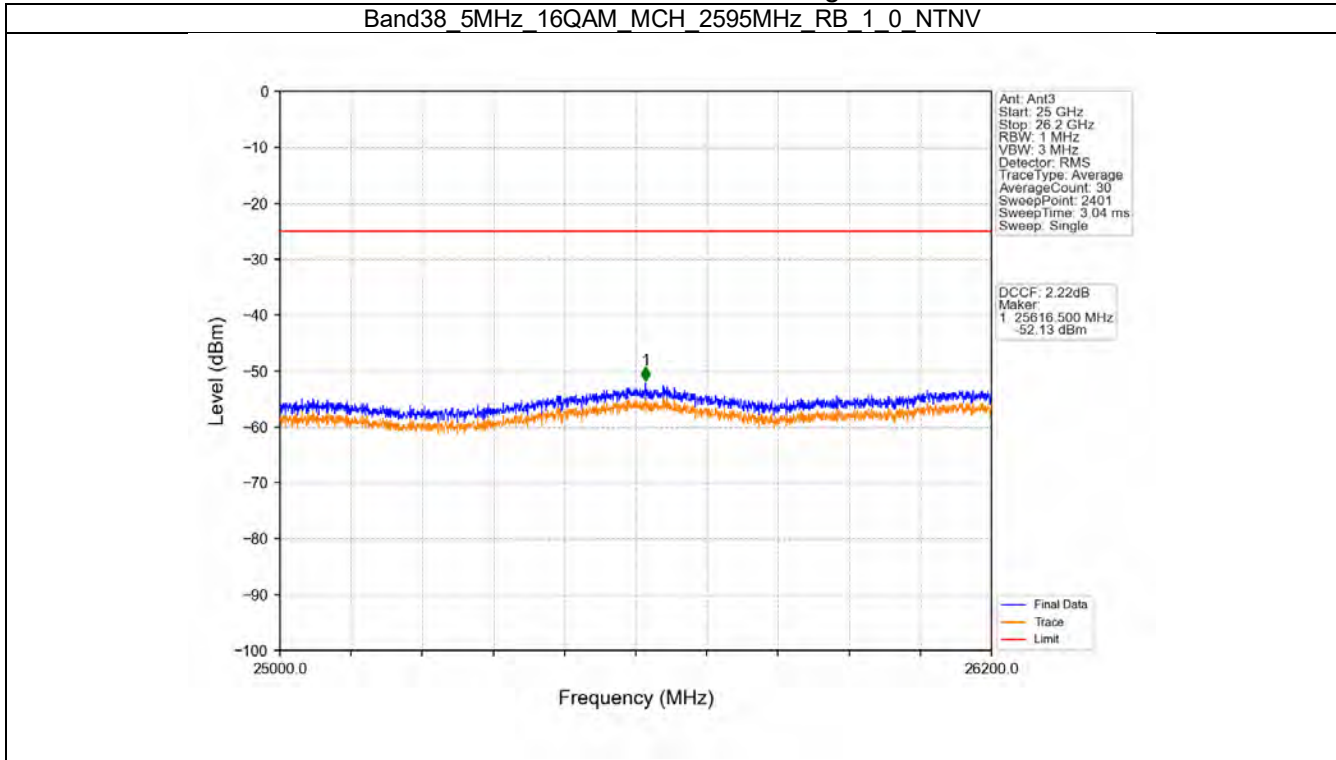
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Band38\_5MHz\_16QAM\_MCH\_2595MHz\_RB\_1\_0\_NTNV



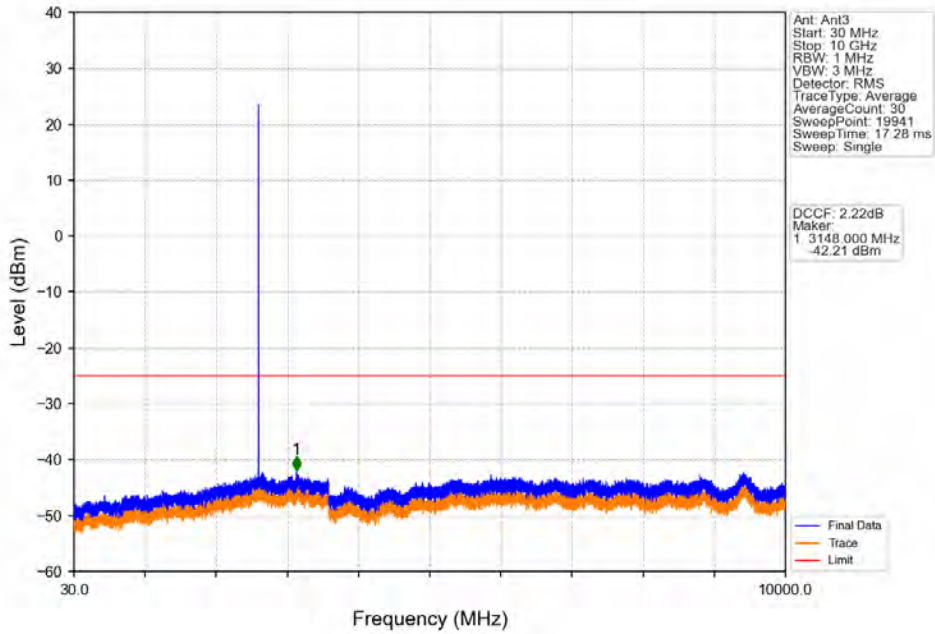
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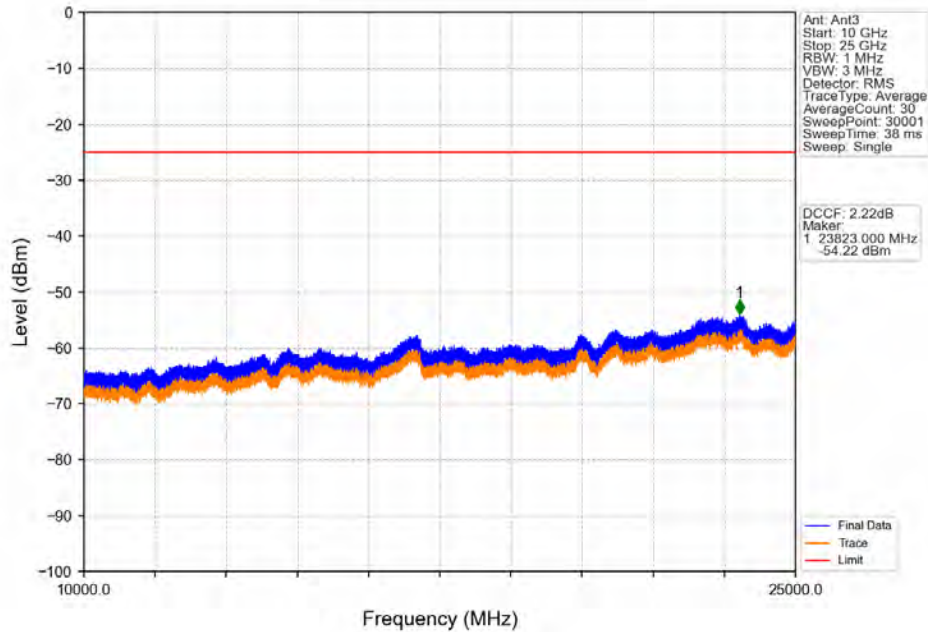


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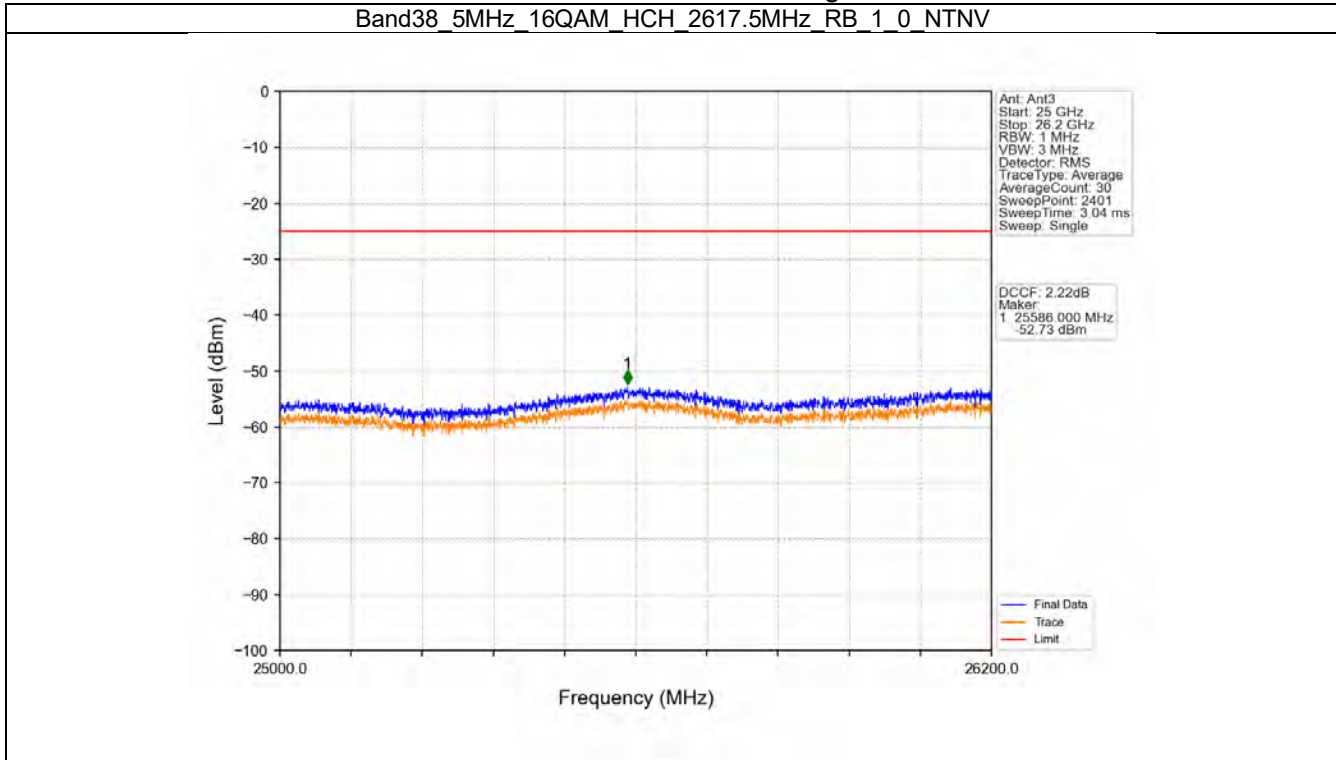
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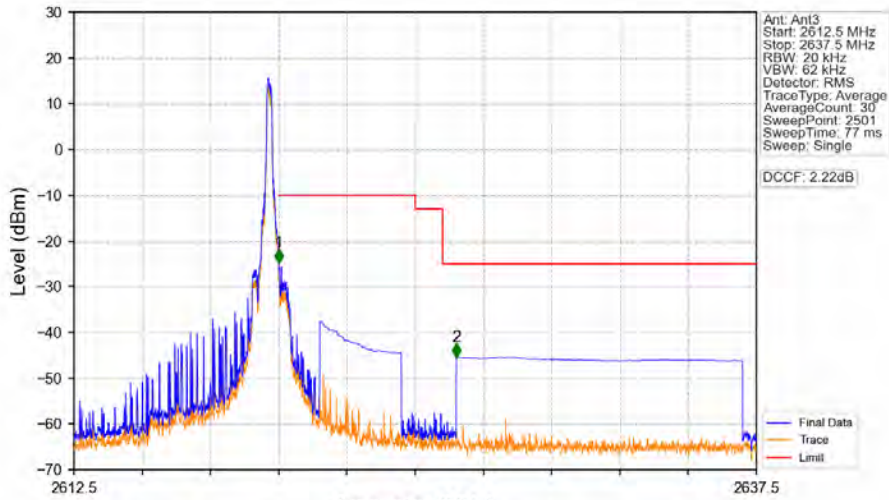
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Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.000	-24.78	-10	Pass
2620	2621	0.02	/	/	/	/	/	/
2621	2637.5	1	CHP	2	2626.510	-45.39	-25	Pass



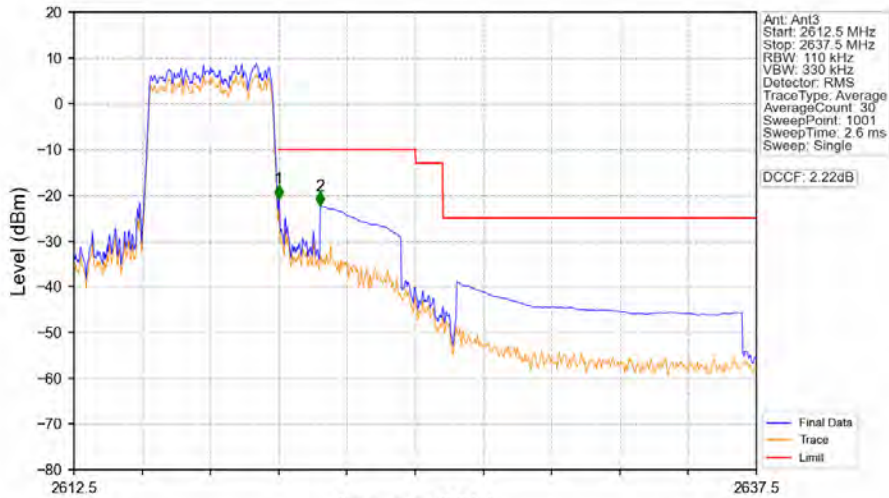
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Band38\_5MHz\_16QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	1	2620.000	-20.84	-10	Pass
2620	2621	0.11	/	1	2620.000	-20.84	-10	Pass
2621	2637.5	1	CHP	2	2621.525	-22.40	-10	Pass

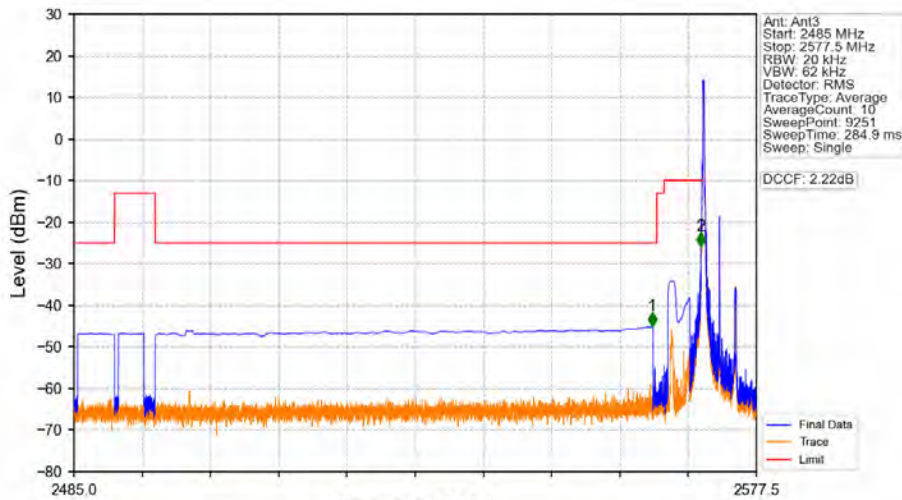


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Band38\_5MHz\_64QAM\_LCH\_2572.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2563.370	-45.00	-25	Pass
2569	2570	0.02	/	2	2570.000	-25.77	-10	Pass
2570	2577.5	0.02	/	/	/	/	/	/



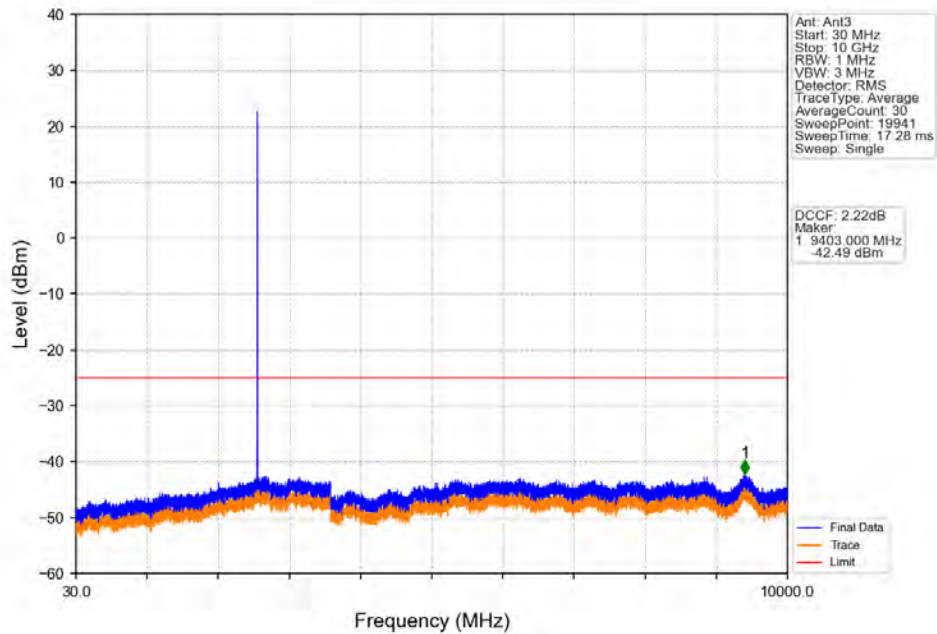
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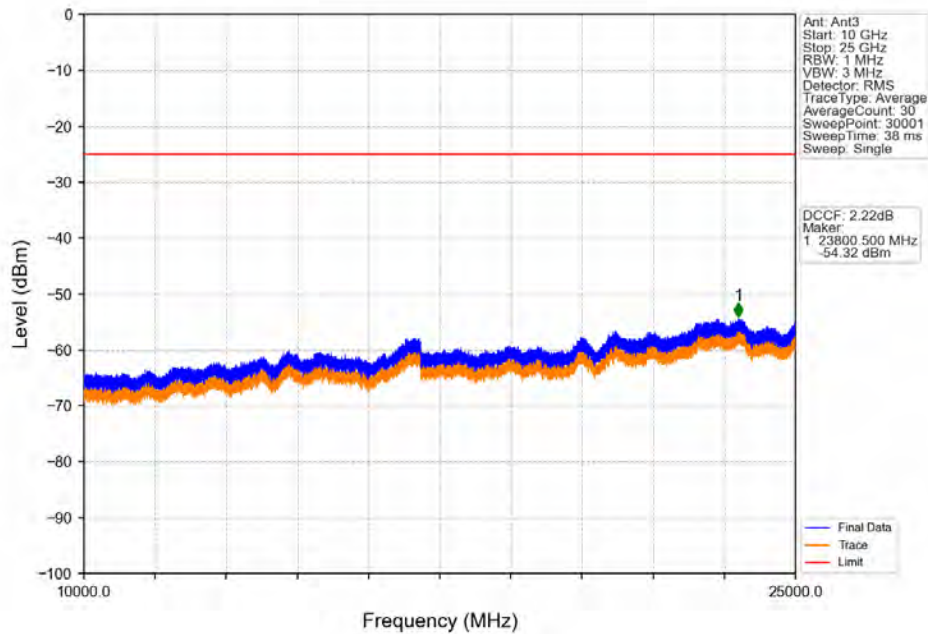


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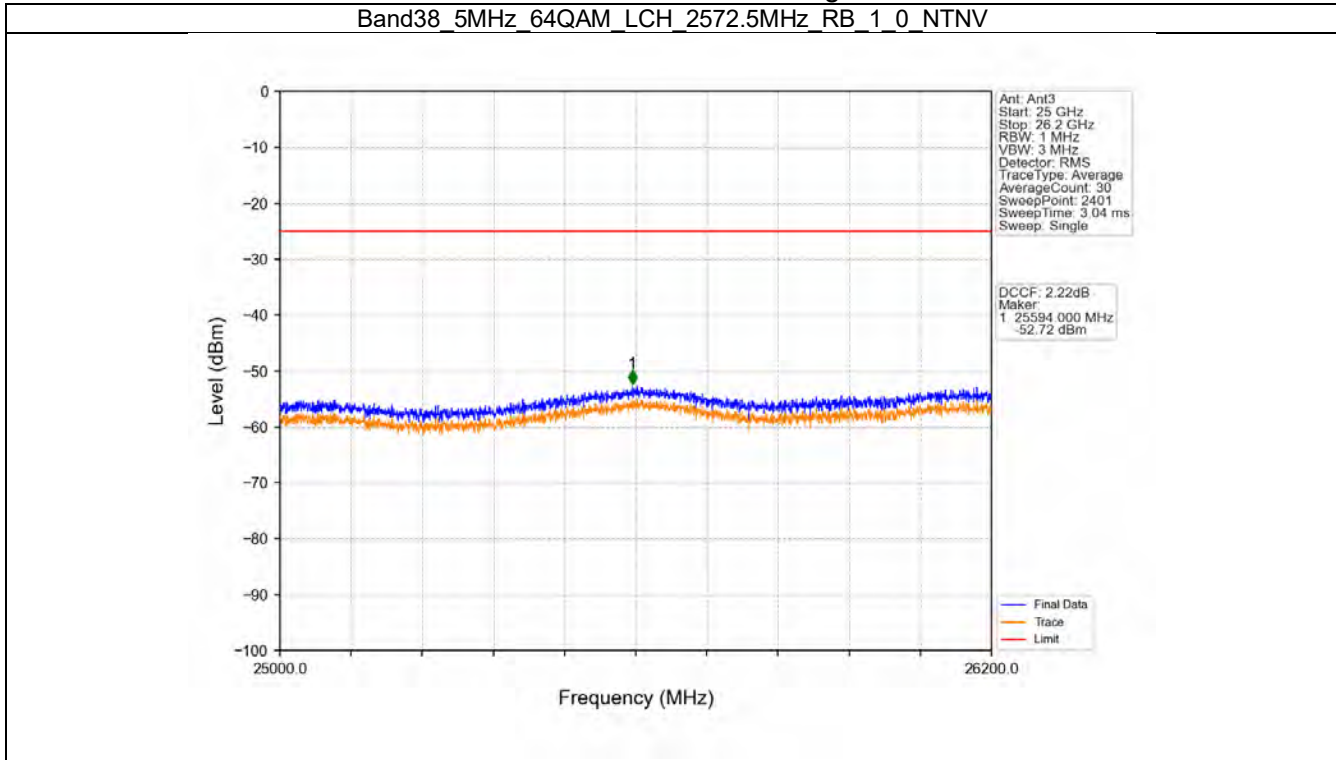


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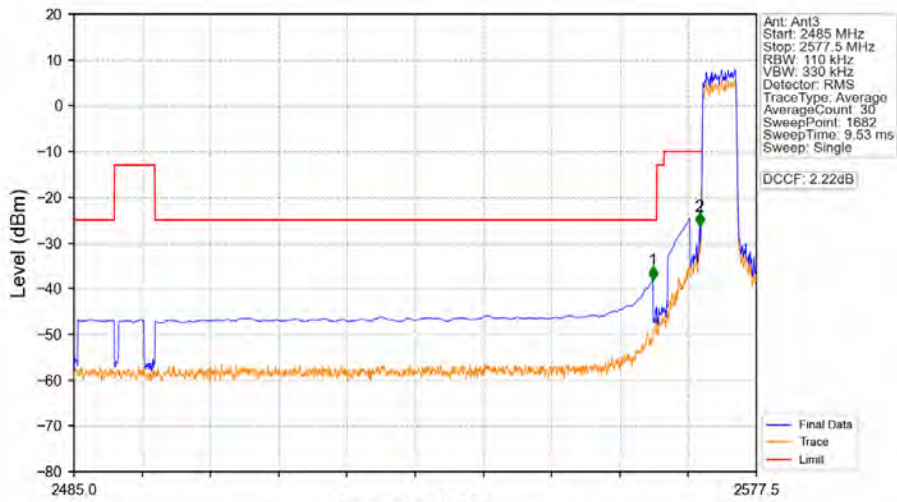


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2485	2569	0.11	CHP	1	2563.468	-38.12	-25	Pass
2569	2570	0.11	/	2	2569.796	-26.44	-10	Pass
2570	2577.5	0.11	/	/	/	/	/	/



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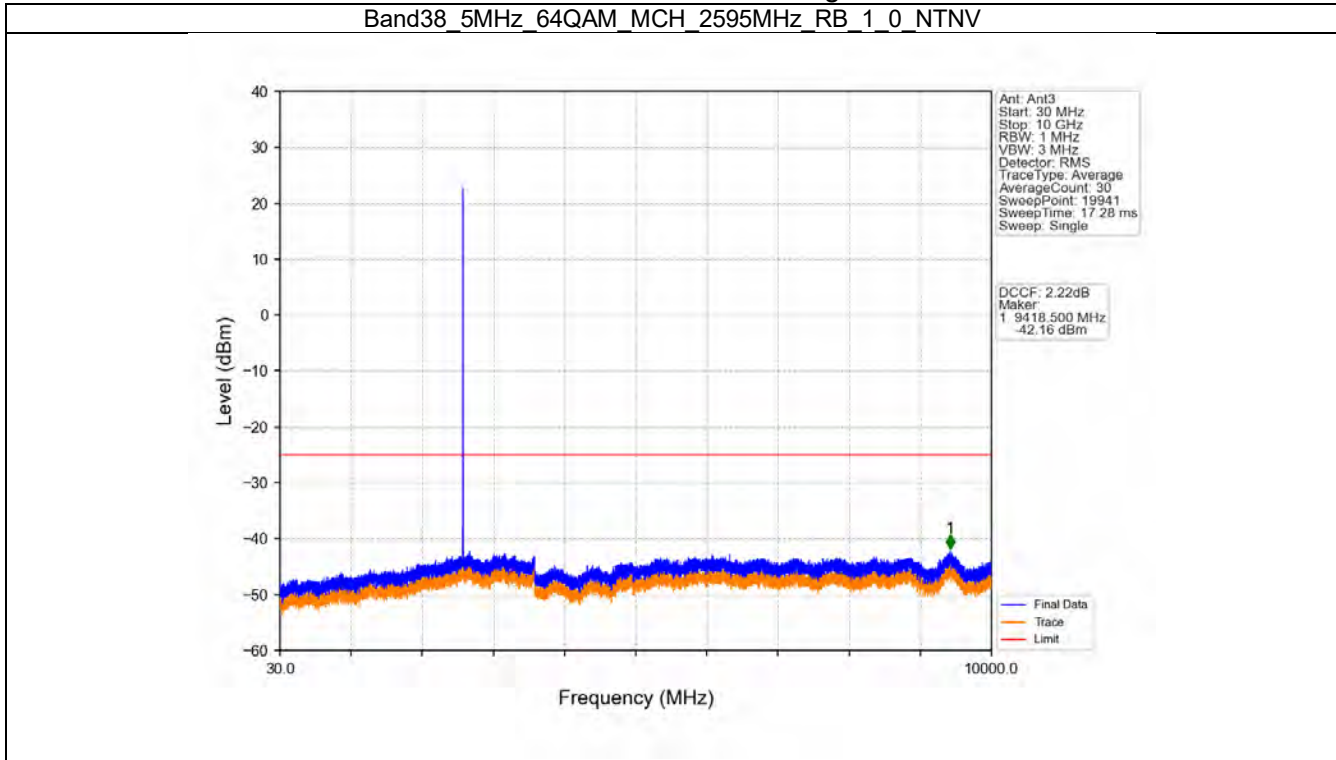


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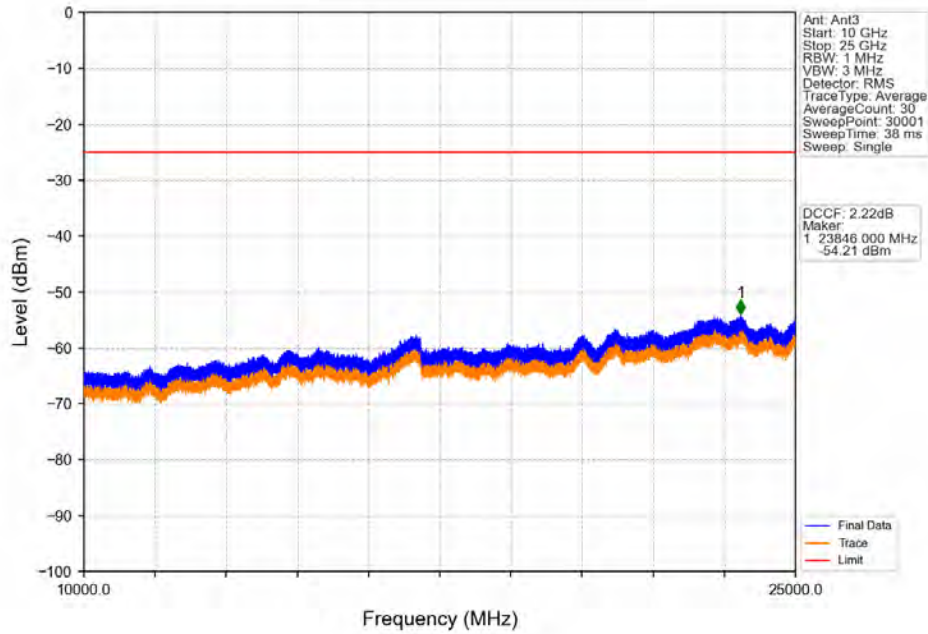
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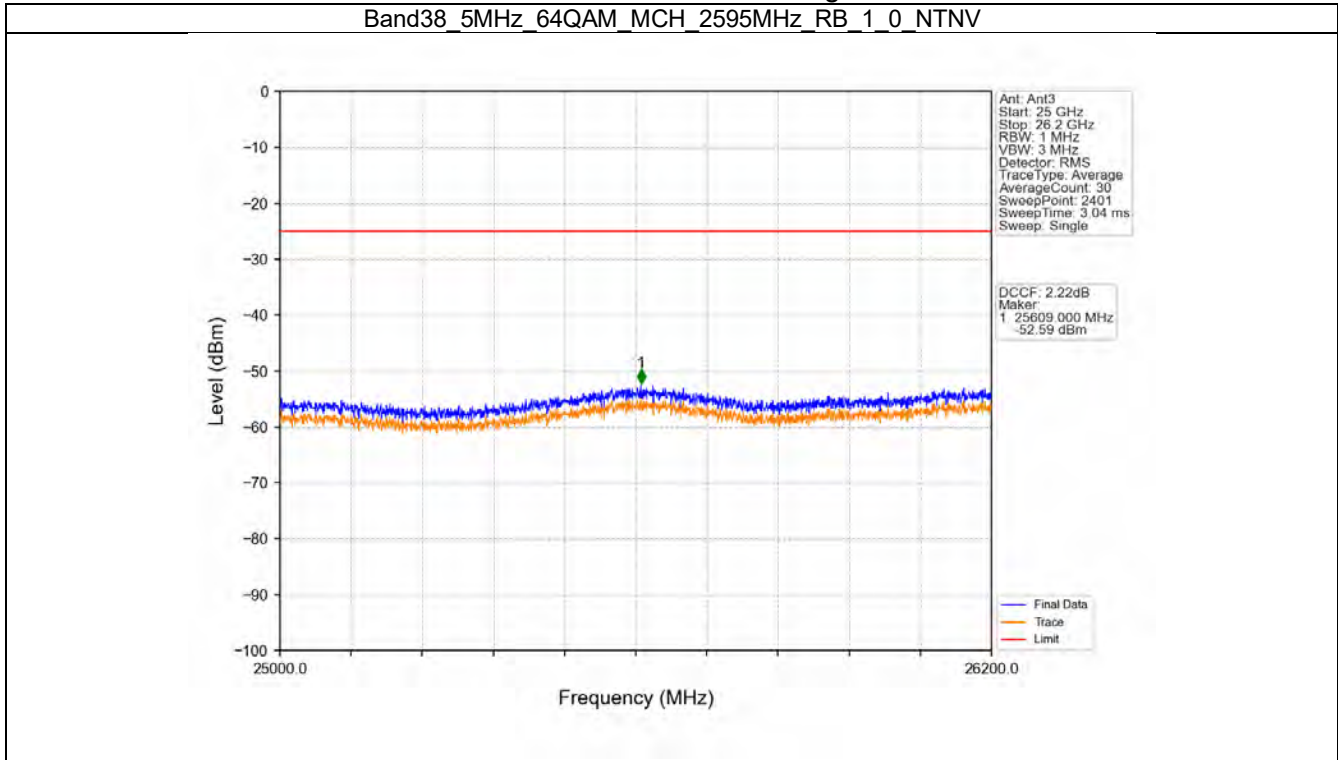


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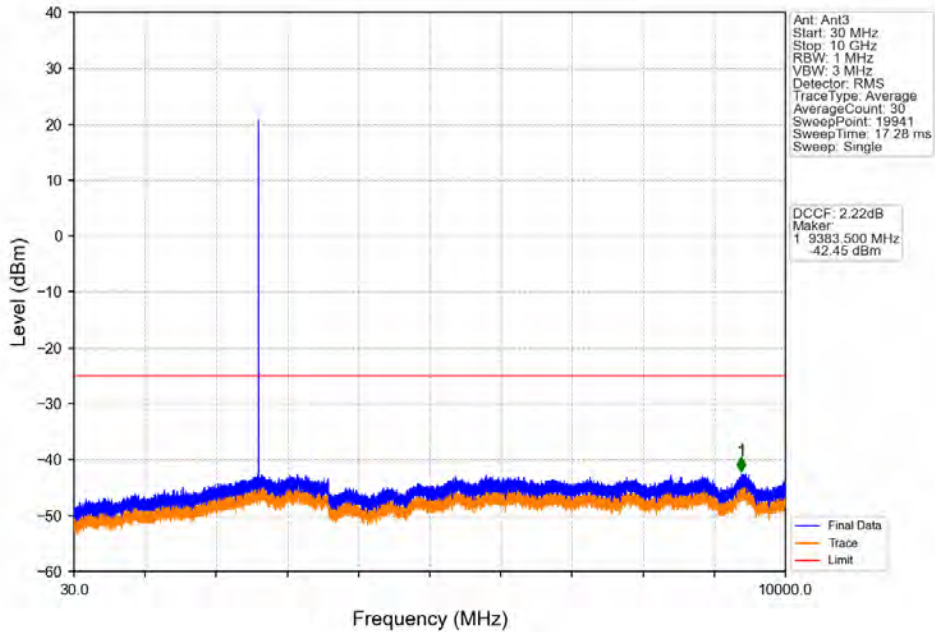
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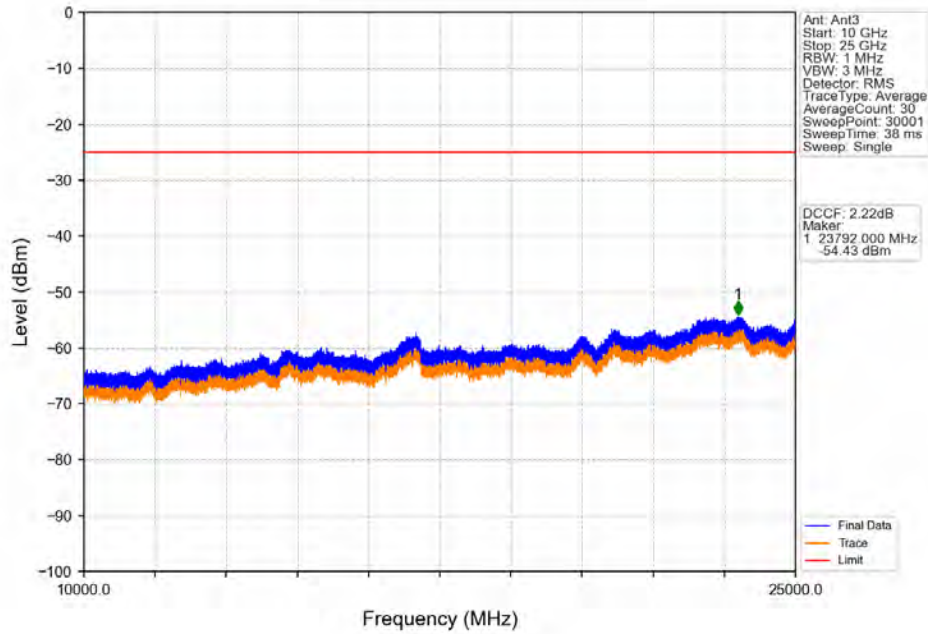
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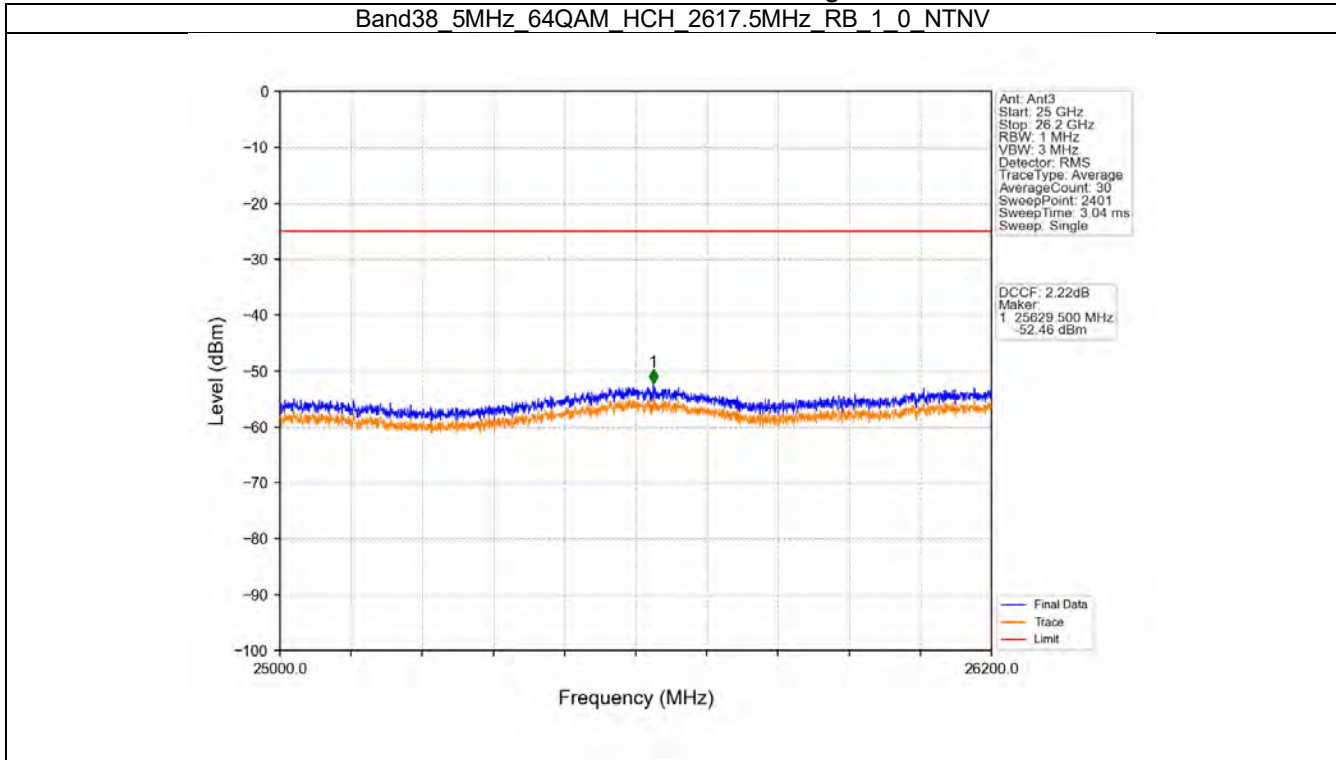
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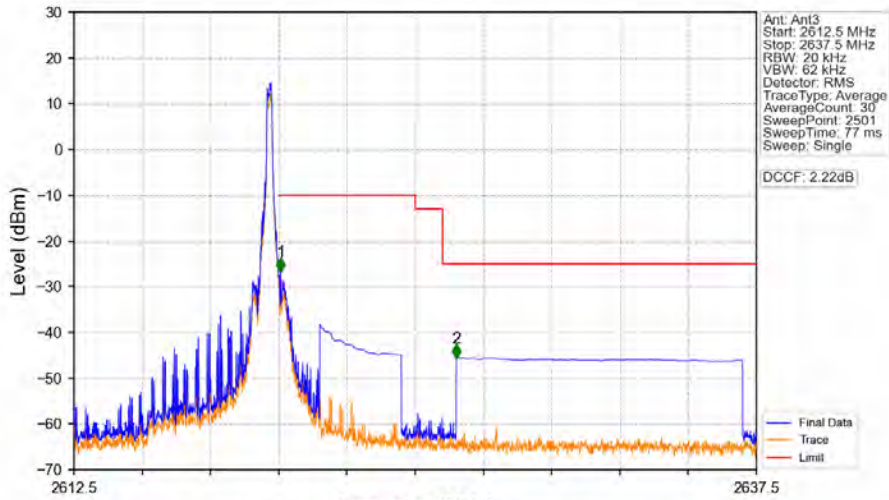
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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.02	/	1	2620.070	-26.78	-10	Pass
2620	2621	0.02	/	/	/	/	/	/
2621	2637.5	1	CHP	2	2626.510	-45.63	-25	Pass



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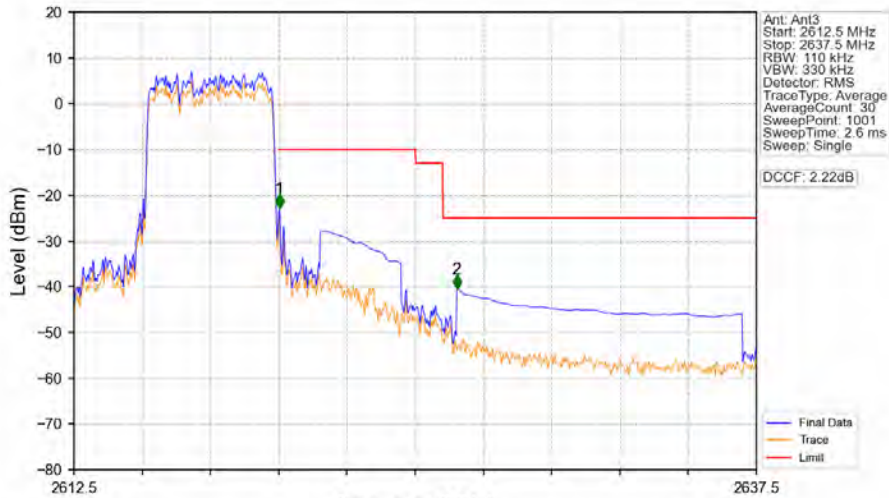
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Band38\_5MHz\_64QAM\_HCH\_2617.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2612.5	2620	0.11	/	1	2620.025	-22.83	-10	Pass
2620	2621	0.11	/	1	2620.025	-22.83	-10	Pass
2621	2637.5	1	CHP	2	2626.525	-40.47	-25	Pass



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5.2 B38\_10MHz

5.2.1 Test Result

Band: 38 / Bandwidth: 10MHz / NTVN						
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
			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
			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
			0	Refer To Test Graph		Pass

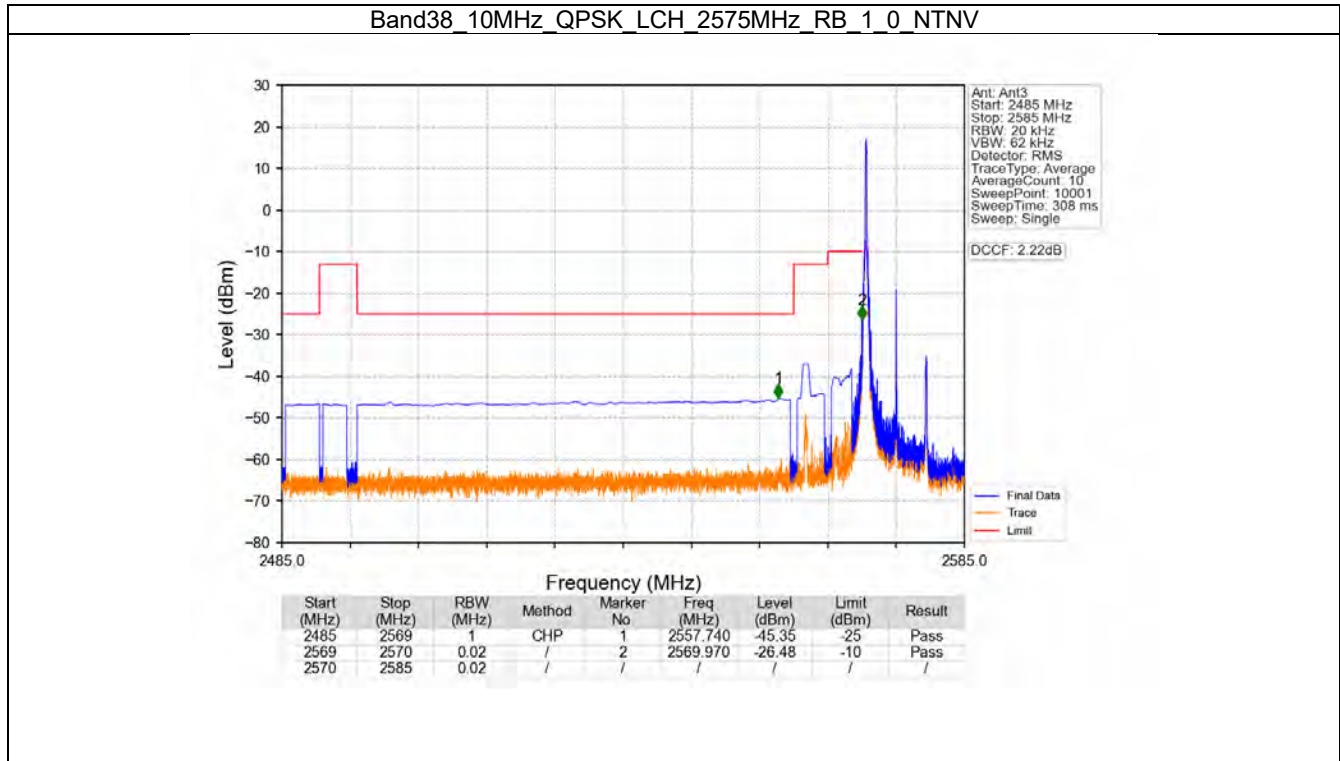


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5.2.2 Test Graph



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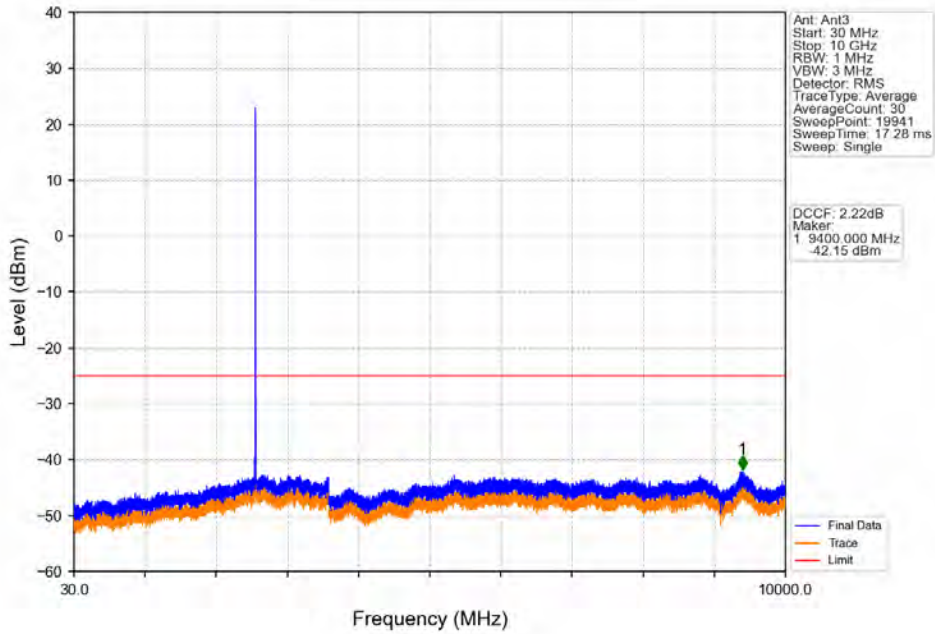
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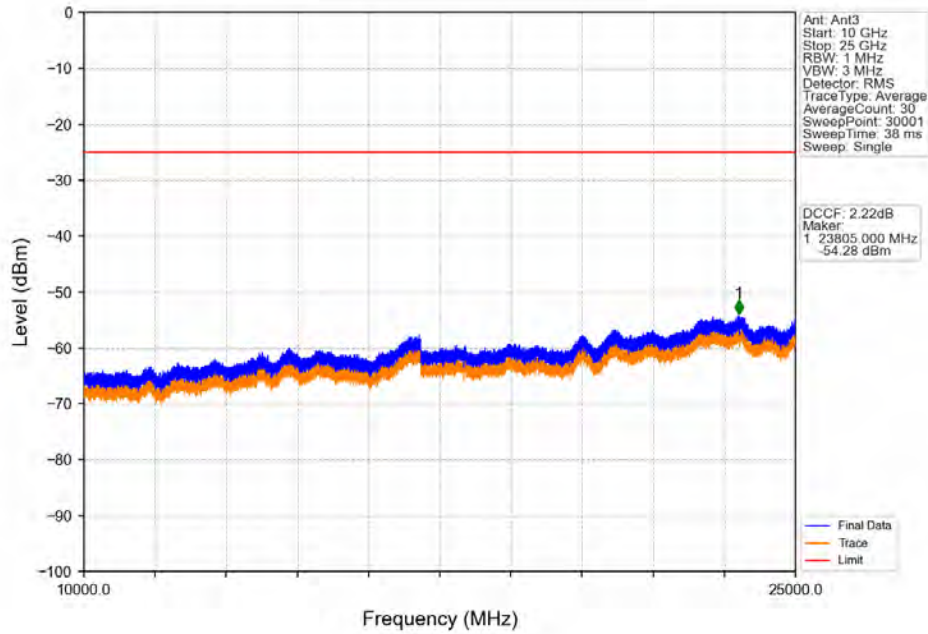


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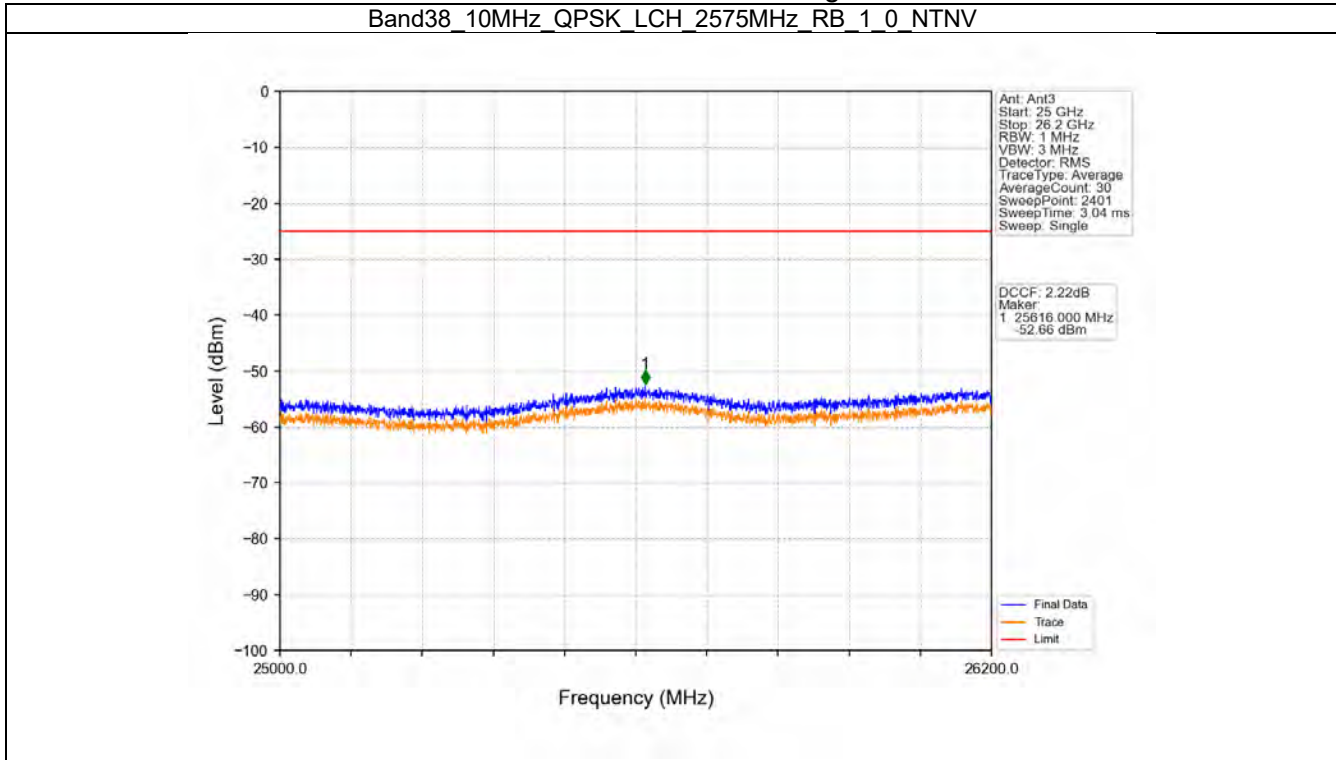


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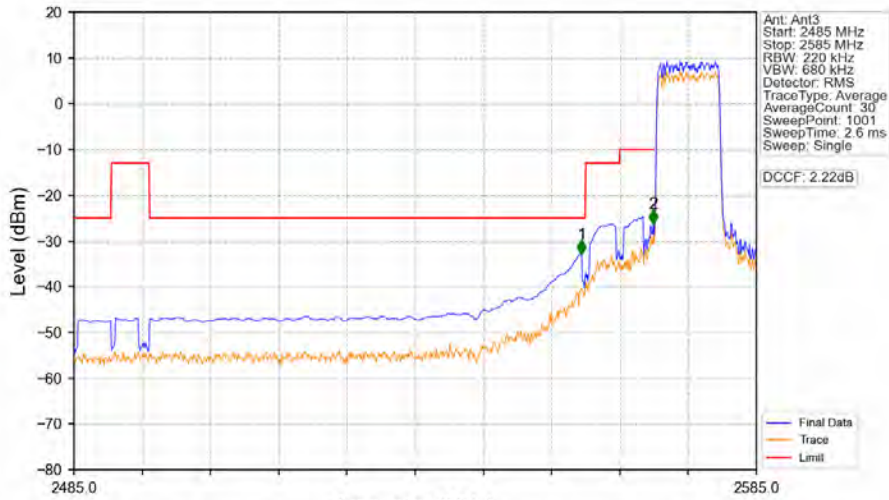
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.400	-32.93	-25	Pass
2569	2570	0.22	/	2	2569.900	-26.25	-10	Pass
2570	2585	0.22	/	/	/	/	/	/

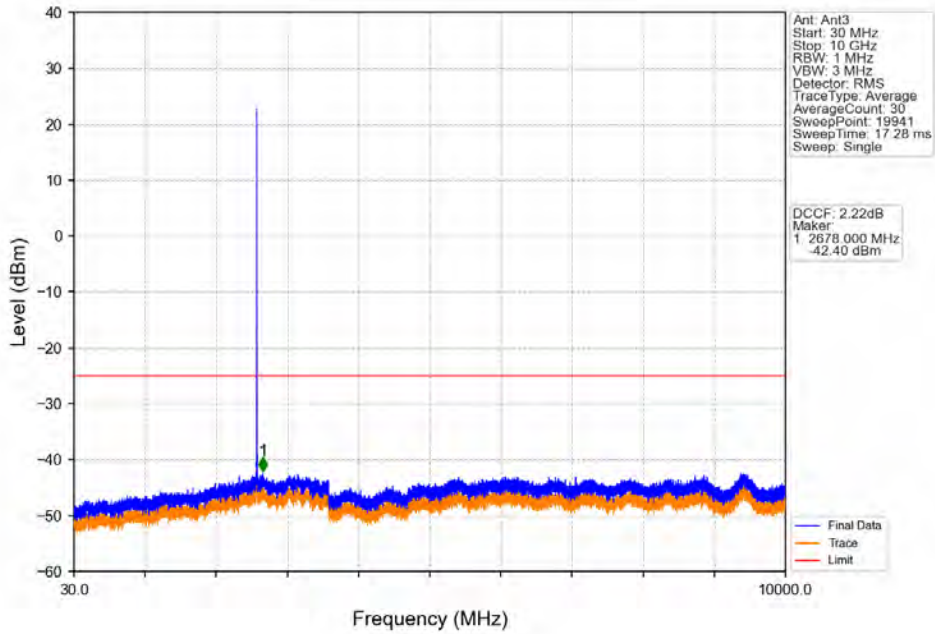


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Band38\_10MHz\_QPSK\_MCH\_2595MHz\_RB\_1\_0\_NTNV

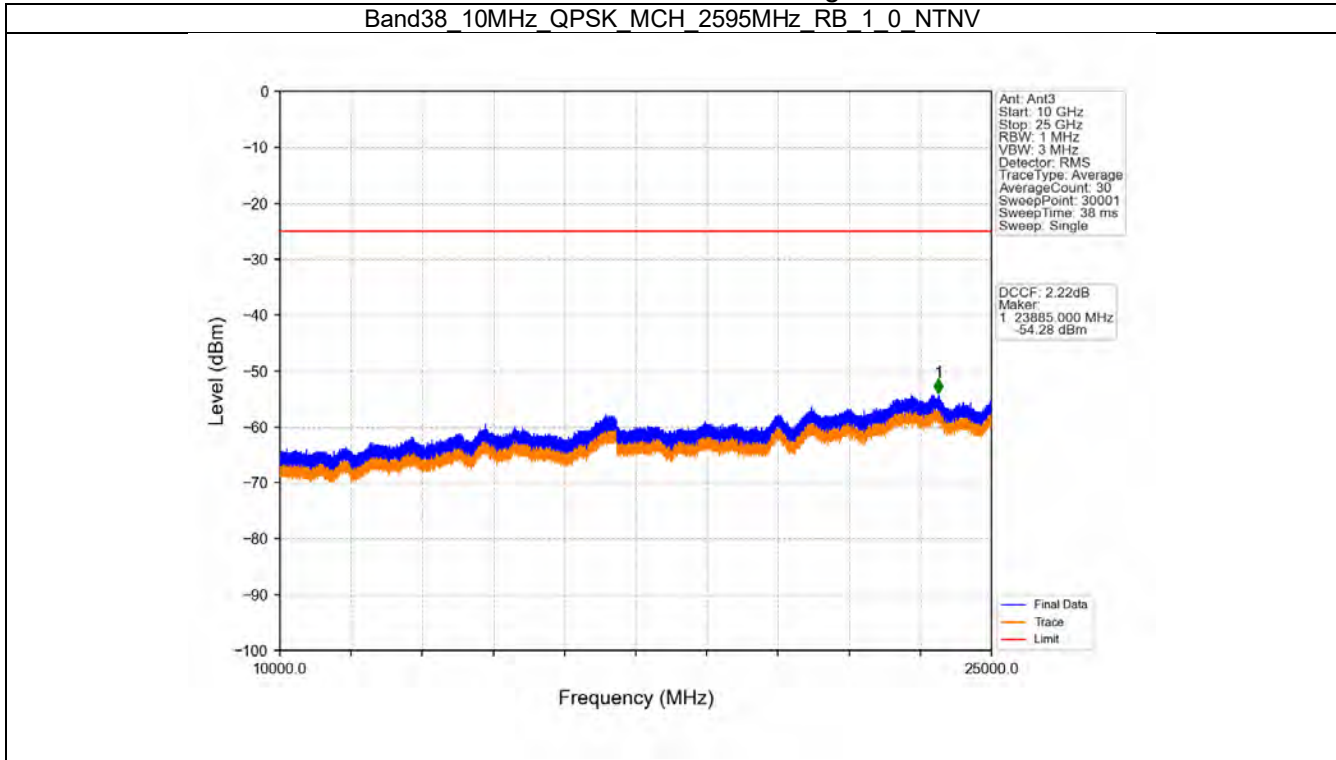


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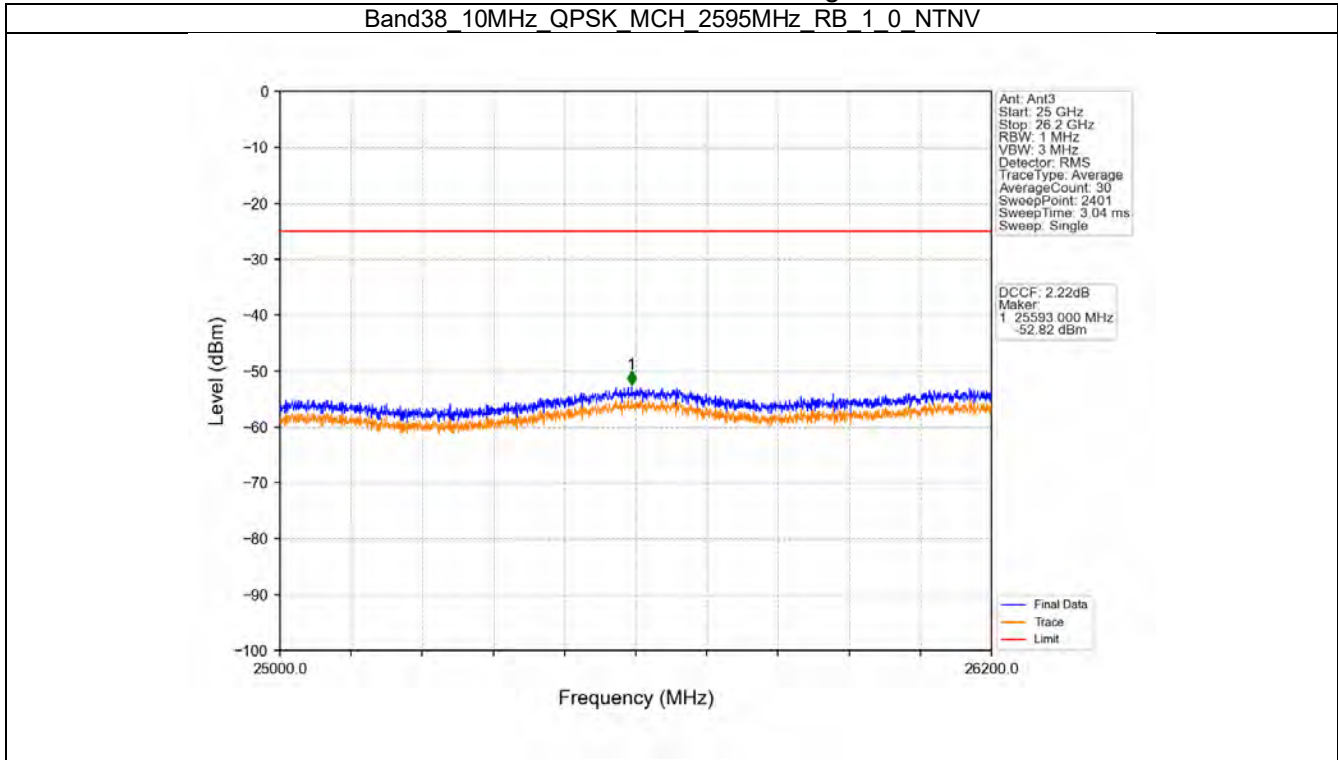
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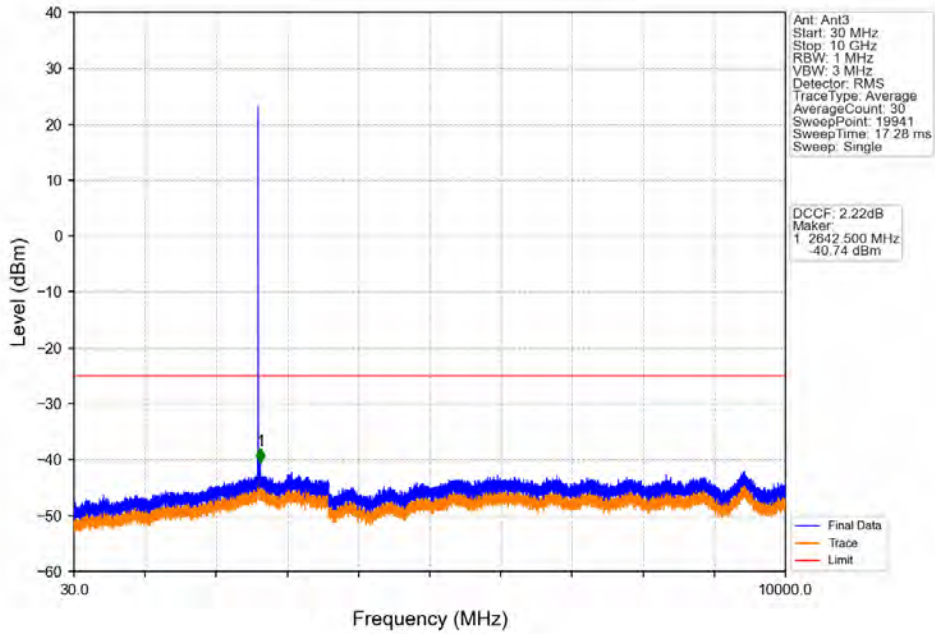


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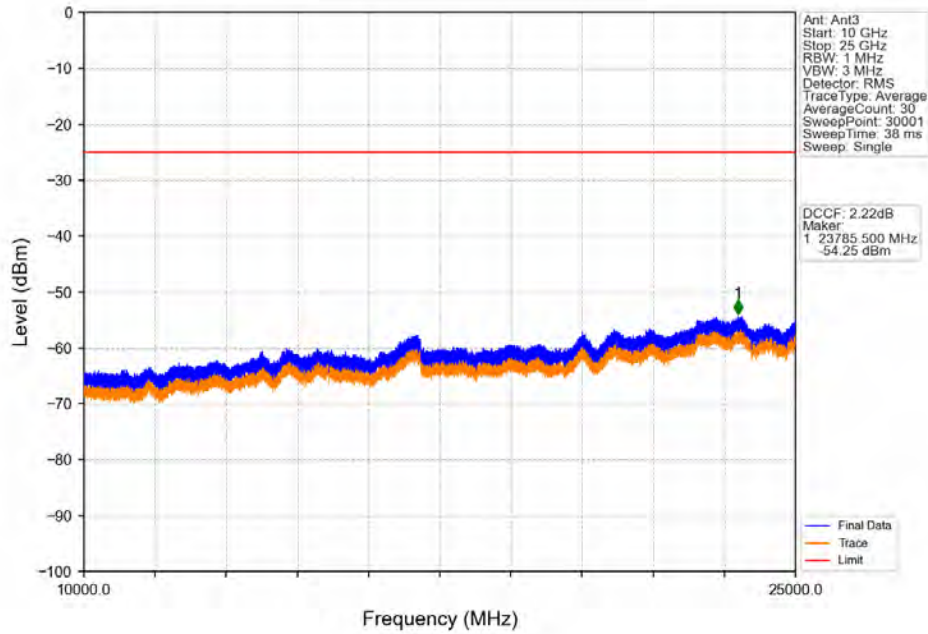


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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



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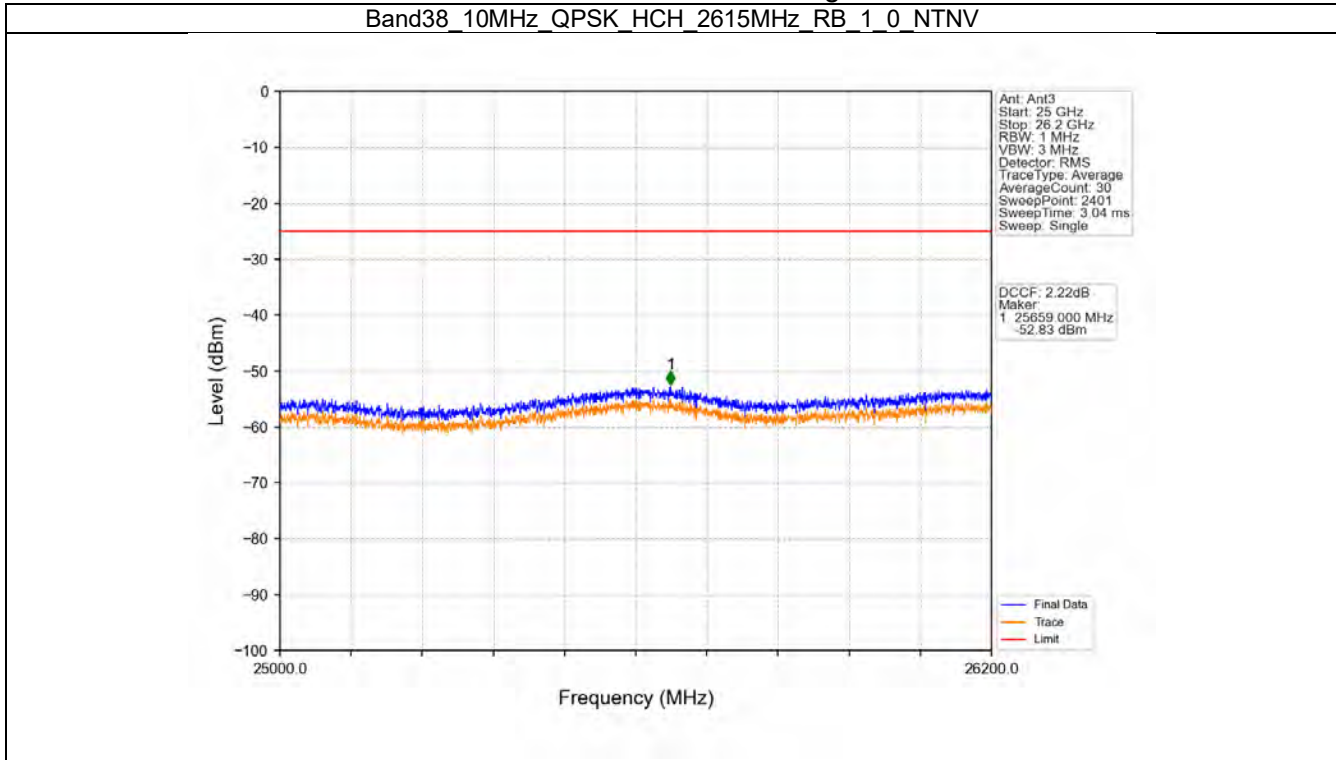
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_0\_NTNV



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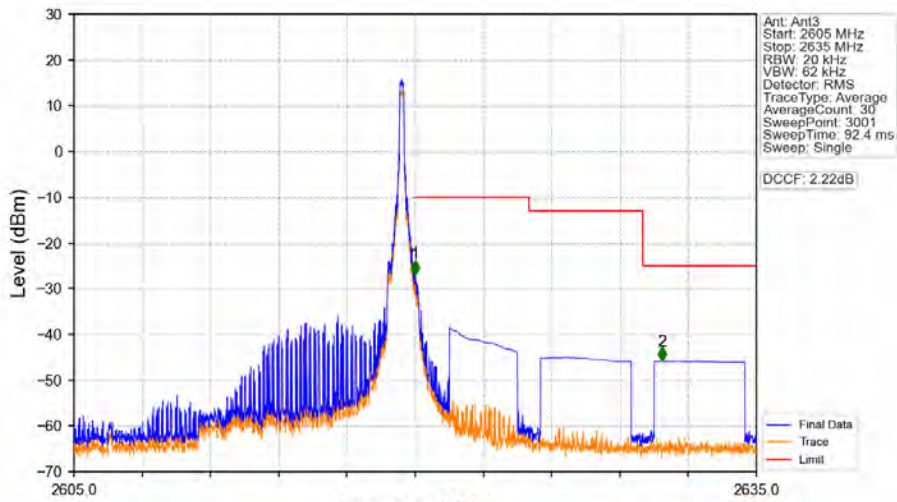
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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	/	1	2620 000	-26.88	-10	Pass
2621	2635	1	CHP	2	2630 840	-45.82	-25	Pass

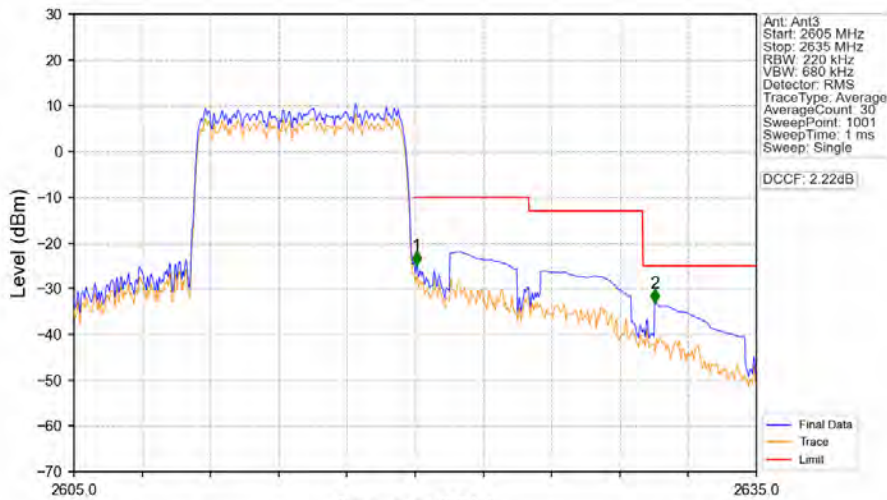


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Band38\_10MHz\_QPSK\_HCH\_2615MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.22	/	/	/	/	/	/
2620	2621	0.22	/	1	2620.060	-24.90	-10	Pass
2621	2635	1	CHP	2	2630.530	-33.20	-25	Pass



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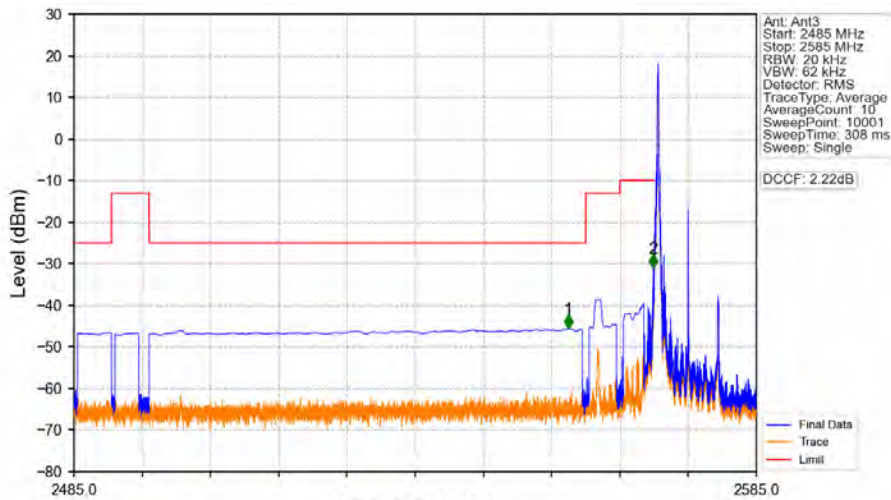
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Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2557.460	-45.60	-25	Pass
2569	2570	0.02	/	2	2569.910	-31.18	-10	Pass
2570	2585	0.02	/	/	/	/	/	/



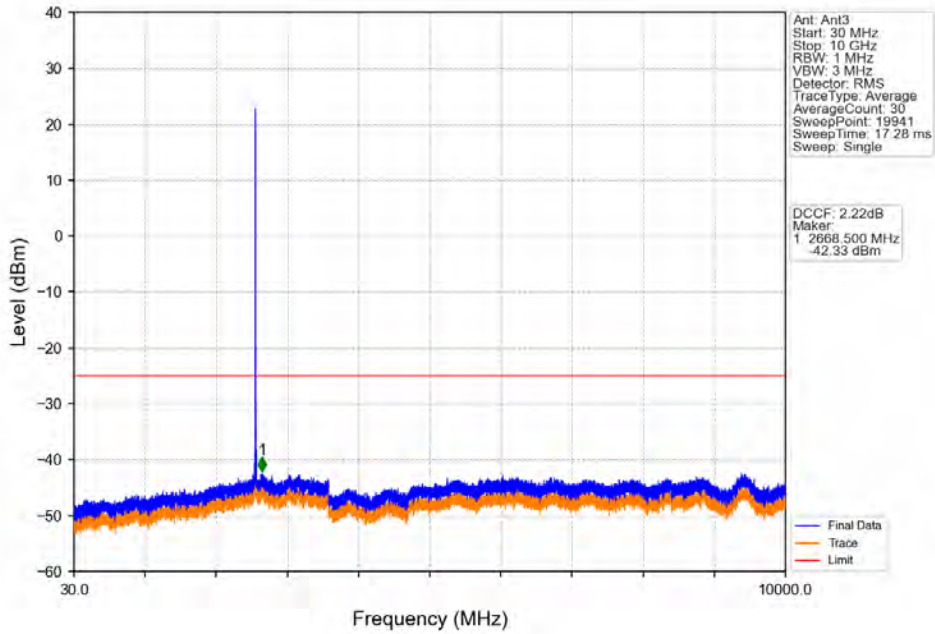
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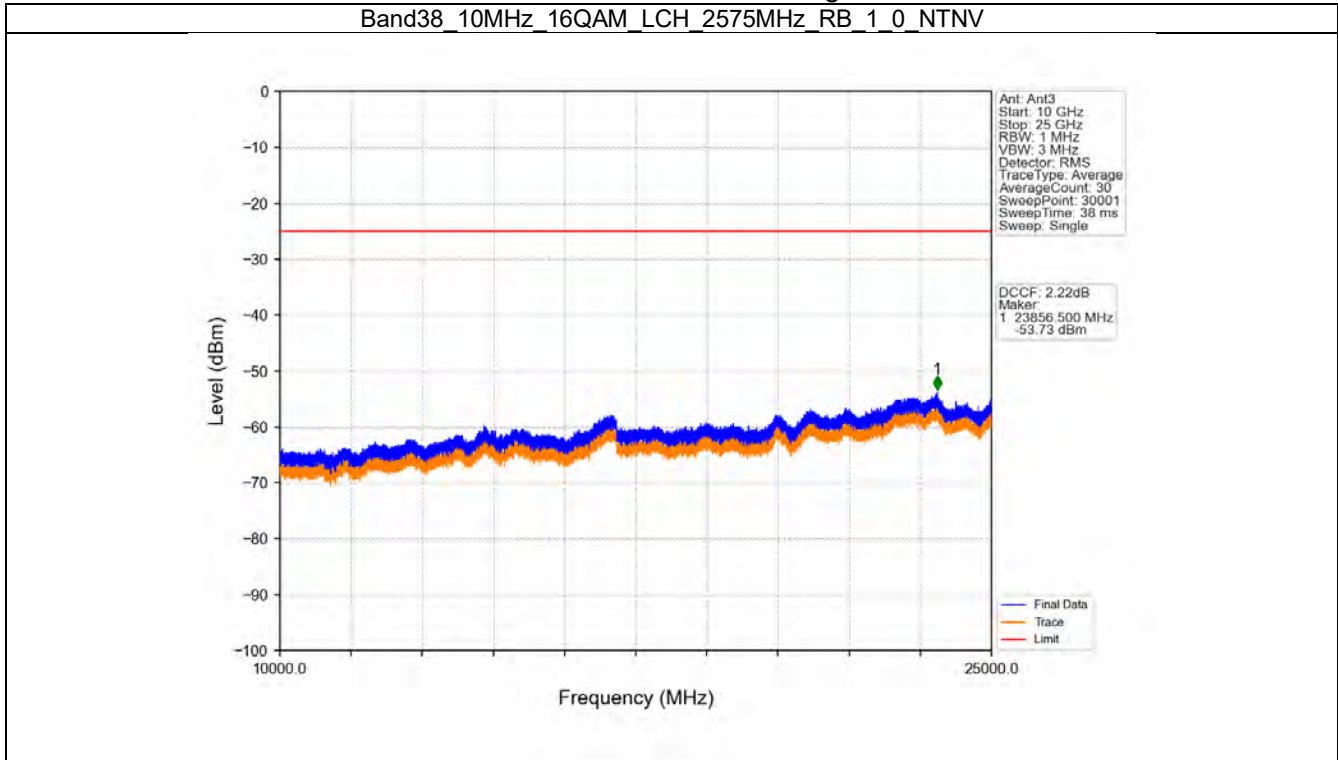
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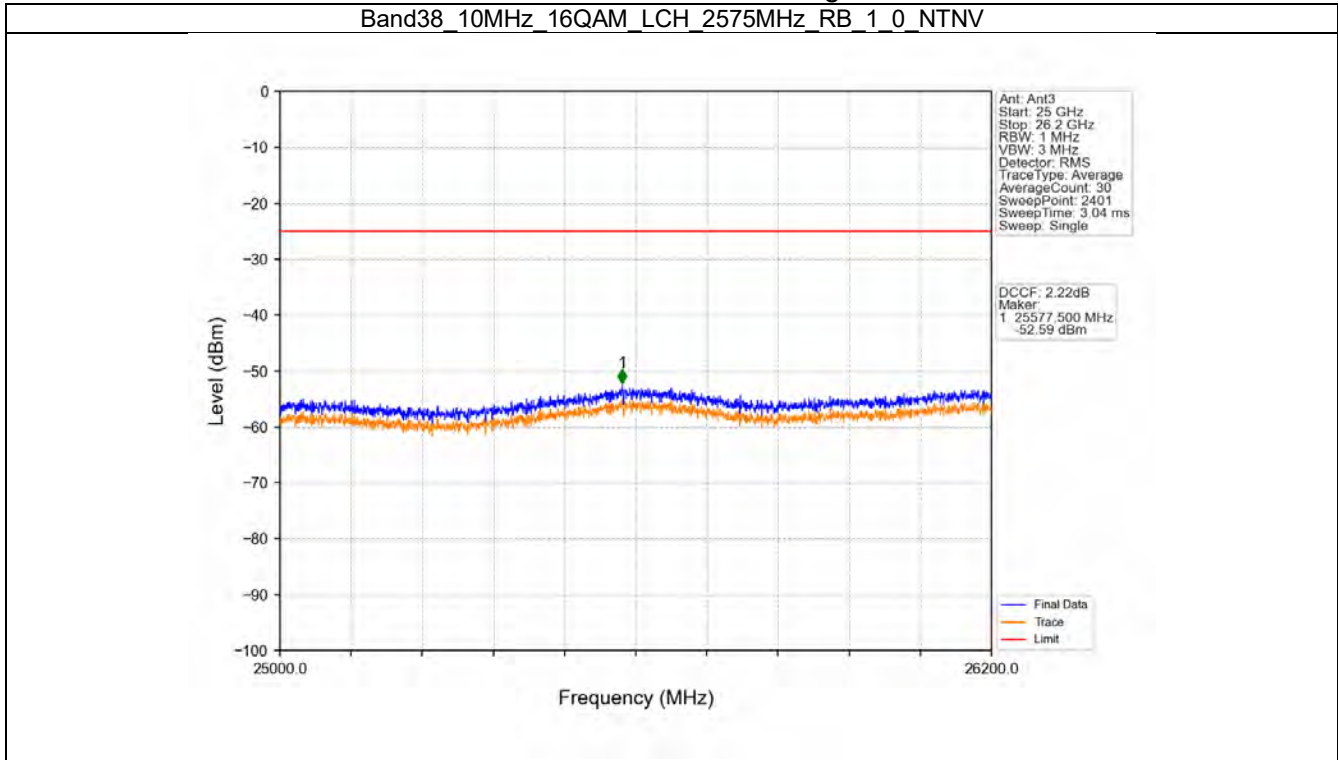


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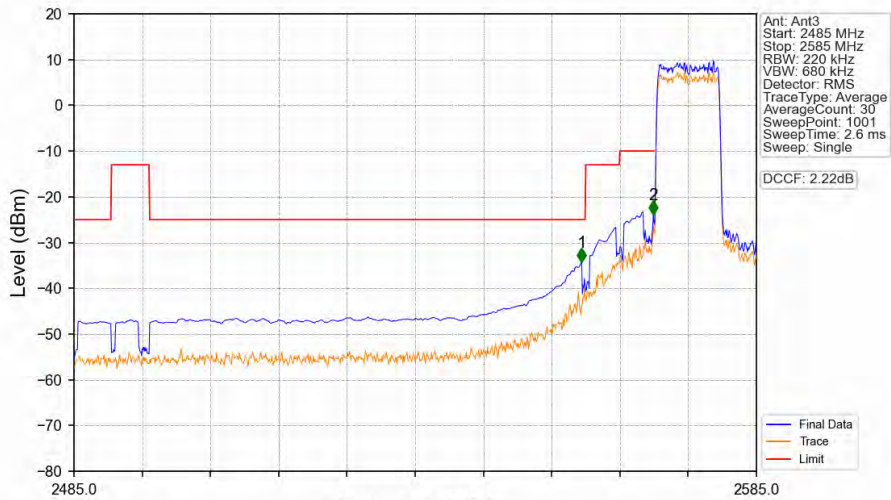


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Band38\_10MHz\_16QAM\_LCH\_2575MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2569	1	CHP	1	2559.400	-34.35	-25	Pass
2569	2570	0.22	/	2	2569.900	-23.93	-10	Pass
2570	2585	0.22	/	/	/	/	/	/

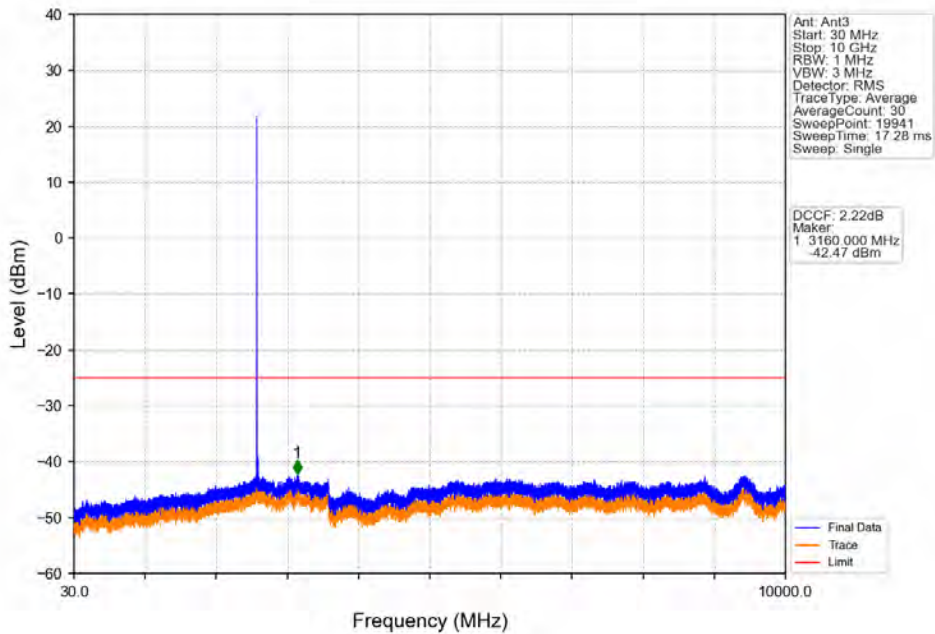


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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_1\_0\_NTNV



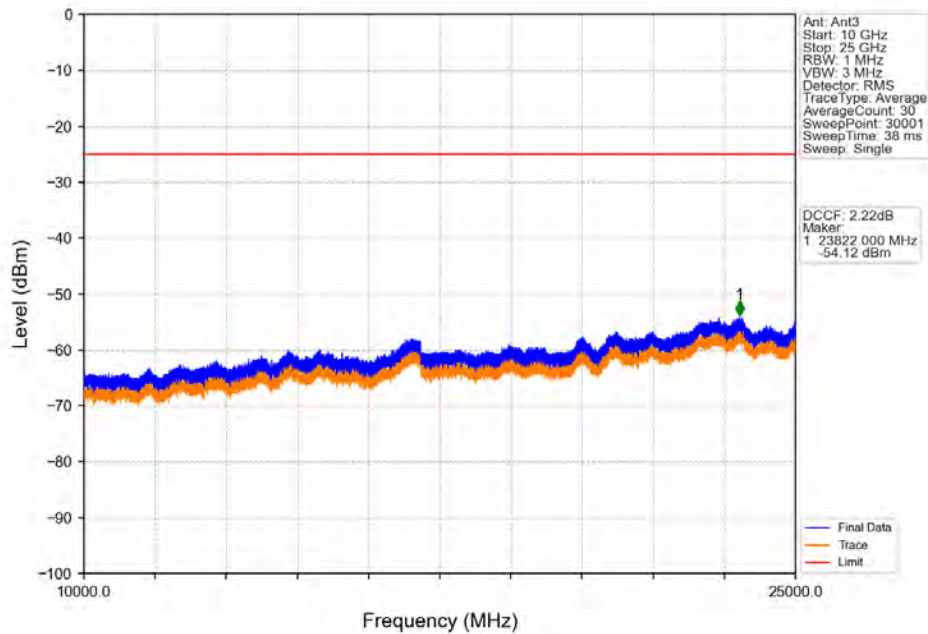
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Band38\_10MHz\_16QAM\_MCH\_2595MHz\_RB\_1\_0\_NTNV

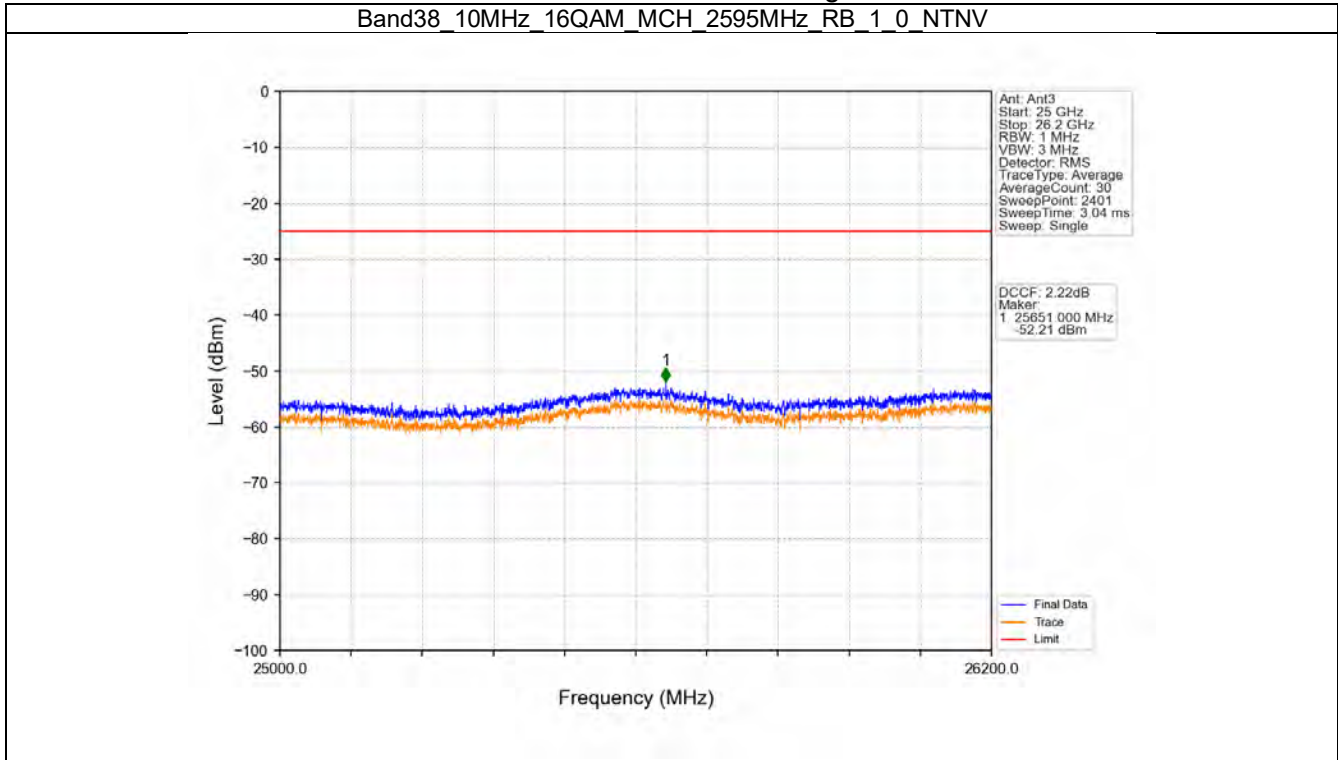


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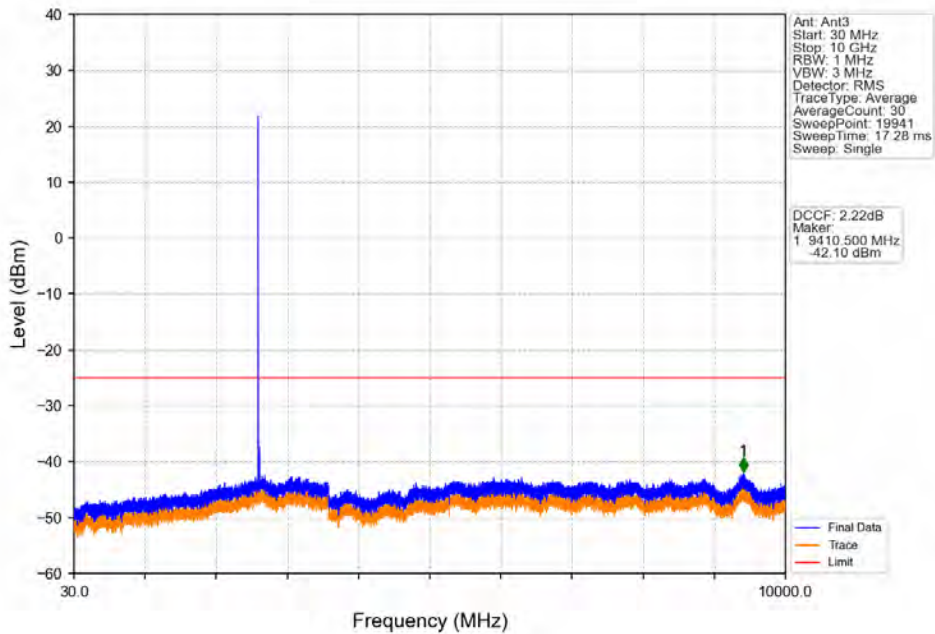


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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_1\_0\_NTNV

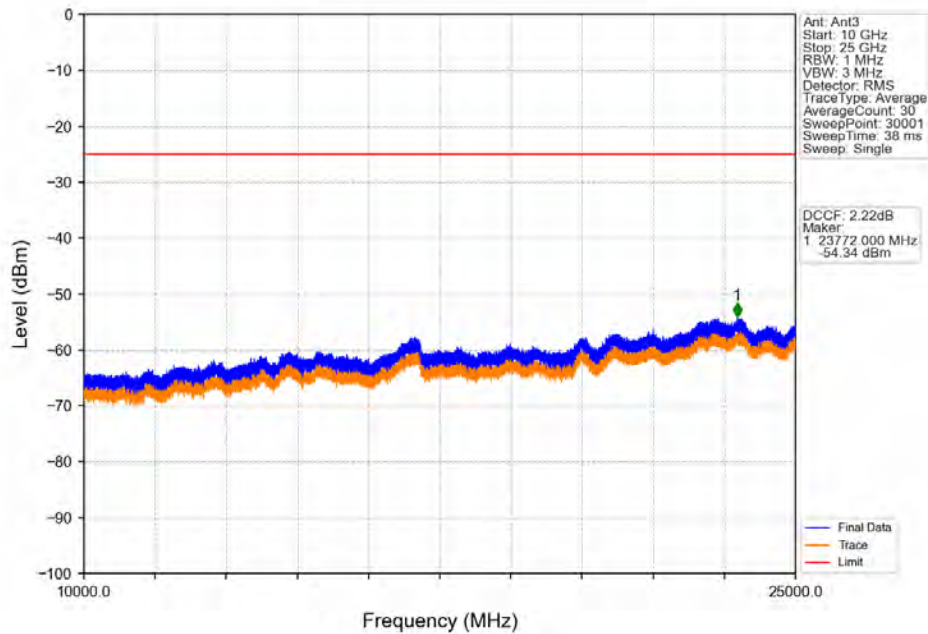


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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_1\_0\_NTNV



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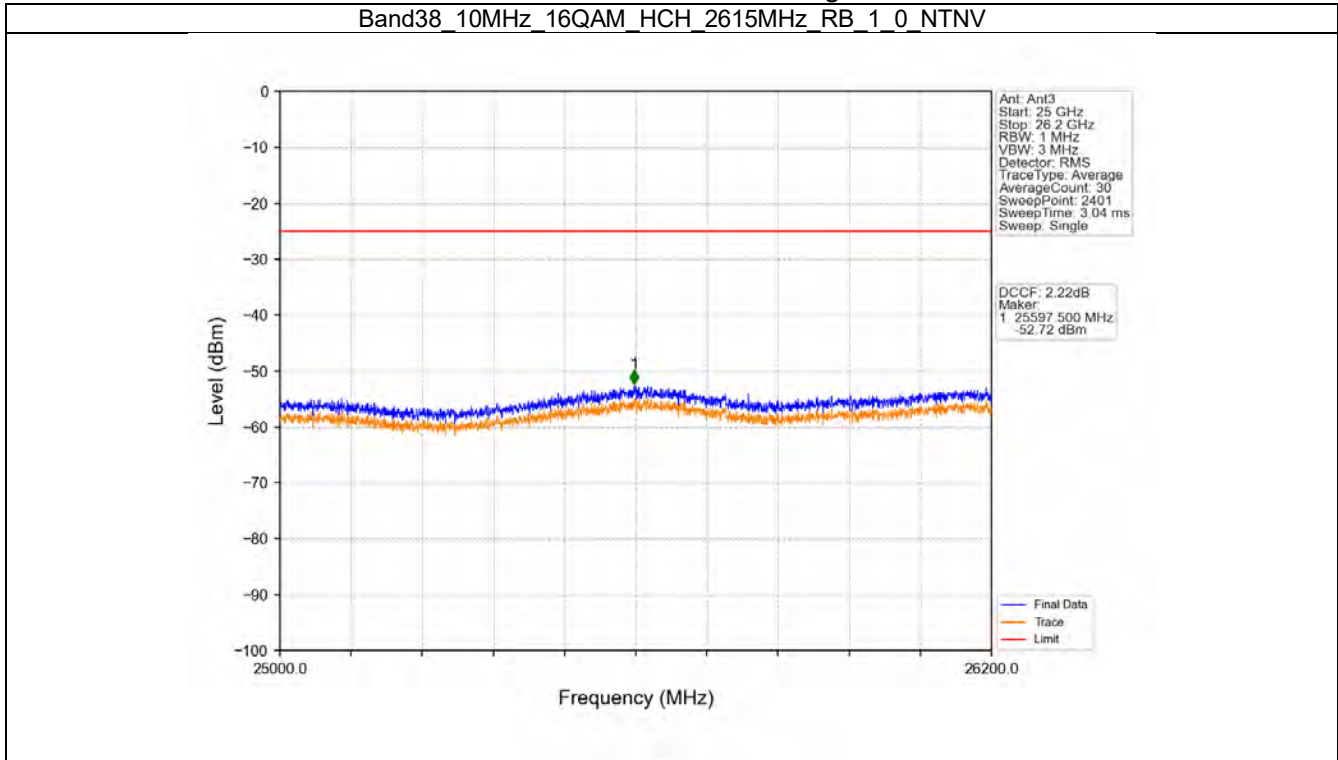


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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_1\_0\_NTNV



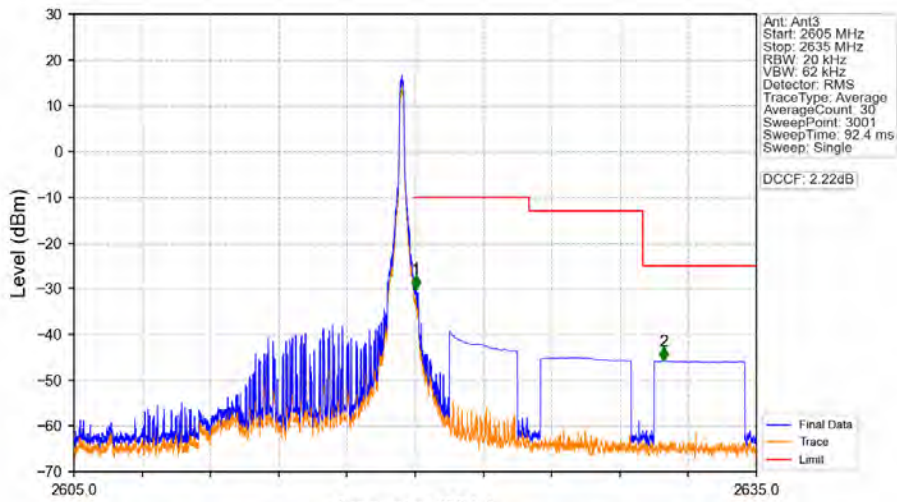
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Band38\_10MHz\_16QAM\_HCH\_2615MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	/	1	2620.020	-30.14	-10	Pass
2621	2635	1	CHP	2	2630.930	-45.87	-25	Pass



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