Appendix B.7

LTE Band 7

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1. Effective (Isotropic) Radiated Power Output Data

1.1 B7_5MHz_EIRPAnt0

1.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	22.56	2.24	24.80	<=33.00	Pass
			13	22.71	2.24	24.95	<=33.00	Pass
			24	22.47	2.24	24.71	<=33.00	Pass
		12	0	21.60	2.24	23.84	<=33.00	Pass
			6	21.64	2.24	23.88	<=33.00	Pass
			13	21.61	2.24	23.85	<=33.00	Pass
		25	0	21.62	2.24	23.86	<=33.00	Pass
	2535	1	0	22.86	2.24	25.10	<=33.00	Pass
			13	23.03	2.24	25.27	<=33.00	Pass
			24	22.86	2.24	25.10	<=33.00	Pass
		12	0	21.90	2.24	24.14	<=33.00	Pass
			6	21.97	2.24	24.21	<=33.00	Pass
			13	21.86	2.24	24.10	<=33.00	Pass
		25	0	21.88	2.24	24.12	<=33.00	Pass
	2567.5	1	0	22.96	2.24	25.20	<=33.00	Pass
			13	23.05	2.24	25.29	<=33.00	Pass
			24	22.91	2.24	25.15	<=33.00	Pass
		12	0	21.98	2.24	24.22	<=33.00	Pass
			6	22.00	2.24	24.24	<=33.00	Pass
			13	21.90	2.24	24.14	<=33.00	Pass
		25	0	21.95	2.24	24.19	<=33.00	Pass
16QAM	2502.5	1	0	21.75	2.24	23.99	<=33.00	Pass
			13	21.87	2.24	24.11	<=33.00	Pass
			24	21.70	2.24	23.94	<=33.00	Pass
		12	0	20.66	2.24	22.90	<=33.00	Pass
			6	20.72	2.24	22.96	<=33.00	Pass
			13	20.69	2.24	22.93	<=33.00	Pass
		25	0	20.70	2.24	22.94	<=33.00	Pass
	2535	1	0	22.02	2.24	24.26	<=33.00	Pass
			13	22.15	2.24	24.39	<=33.00	Pass
			24	22.02	2.24	24.26	<=33.00	Pass
		12	0	20.88	2.24	23.12	<=33.00	Pass
			6	20.96	2.24	23.20	<=33.00	Pass
			13	20.84	2.24	23.08	<=33.00	Pass
		25	0	20.90	2.24	23.14	<=33.00	Pass
	2567.5	1	0	22.20	2.24	24.44	<=33.00	Pass
			13	22.29	2.24	24.53	<=33.00	Pass
			24	22.09	2.24	24.33	<=33.00	Pass
		12	0	20.94	2.24	23.18	<=33.00	Pass

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			6	21.01	2.24	23.25	<=33.00	Pass
			13	20.86	2.24	23.10	<=33.00	Pass
		25	0	20.96	2.24	23.20	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.2 B7_10MHz_EIRP

1.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	22.66	2.24	24.90	<=33.00	Pass
			25	22.76	2.24	25.00	<=33.00	Pass
			49	22.60	2.24	24.84	<=33.00	Pass
		25	0	21.64	2.24	23.88	<=33.00	Pass
			13	21.65	2.24	23.89	<=33.00	Pass
			25	21.70	2.24	23.94	<=33.00	Pass
		50	0	21.65	2.24	23.89	<=33.00	Pass
	2535	1	0	22.90	2.24	25.14	<=33.00	Pass
			25	23.14	2.24	25.38	<=33.00	Pass
			49	22.95	2.24	25.19	<=33.00	Pass
		25	0	21.97	2.24	24.21	<=33.00	Pass
			13	21.91	2.24	24.15	<=33.00	Pass
			25	21.88	2.24	24.12	<=33.00	Pass
		50	0	21.91	2.24	24.15	<=33.00	Pass
	2565	1	0	23.02	2.24	25.26	<=33.00	Pass
			25	23.17	2.24	25.41	<=33.00	Pass
			49	22.92	2.24	25.16	<=33.00	Pass
		25	0	22.02	2.24	24.26	<=33.00	Pass
			13	22.05	2.24	24.29	<=33.00	Pass
			25	21.95	2.24	24.19	<=33.00	Pass
		50	0	21.97	2.24	24.21	<=33.00	Pass
16QAM	2505	1	0	21.82	2.24	24.06	<=33.00	Pass
			25	21.92	2.24	24.16	<=33.00	Pass
			49	21.78	2.24	24.02	<=33.00	Pass
		25	0	20.74	2.24	22.98	<=33.00	Pass
			13	20.72	2.24	22.96	<=33.00	Pass
			25	20.78	2.24	23.02	<=33.00	Pass
		50	0	20.65	2.24	22.89	<=33.00	Pass
	2535	1	0	21.93	2.24	24.17	<=33.00	Pass
			25	22.13	2.24	24.37	<=33.00	Pass
			49	21.92	2.24	24.16	<=33.00	Pass
		25	0	21.06	2.24	23.30	<=33.00	Pass
			13	21.01	2.24	23.25	<=33.00	Pass
			25	20.94	2.24	23.18	<=33.00	Pass
		50	0	20.92	2.24	23.16	<=33.00	Pass

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	2565	1	0	22.24	2.24	24.48	<=33.00	Pass
			25	22.32	2.24	24.56	<=33.00	Pass
			49	22.07	2.24	24.31	<=33.00	Pass
		25	0	21.12	2.24	23.36	<=33.00	Pass
			13	21.11	2.24	23.35	<=33.00	Pass
			25	20.99	2.24	23.23	<=33.00	Pass
		50	0	20.99	2.24	23.23	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.3 B7_15MHz_EIRP

1.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	22.63	2.24	24.87	<=33.00	Pass
			38	22.67	2.24	24.91	<=33.00	Pass
			74	22.55	2.24	24.79	<=33.00	Pass
		36	0	21.71	2.24	23.95	<=33.00	Pass
			18	21.72	2.24	23.96	<=33.00	Pass
			39	21.70	2.24	23.94	<=33.00	Pass
		75	0	21.73	2.24	23.97	<=33.00	Pass
	2535	1	0	22.89	2.24	25.13	<=33.00	Pass
			38	23.08	2.24	25.32	<=33.00	Pass
			74	22.92	2.24	25.16	<=33.00	Pass
		36	0	22.11	2.24	24.35	<=33.00	Pass
			18	22.11	2.24	24.35	<=33.00	Pass
			39	22.04	2.24	24.28	<=33.00	Pass
		75	0	22.03	2.24	24.27	<=33.00	Pass
	2562.5	1	0	22.99	2.24	25.23	<=33.00	Pass
			38	23.08	2.24	25.32	<=33.00	Pass
			74	22.86	2.24	25.10	<=33.00	Pass
		36	0	22.13	2.24	24.37	<=33.00	Pass
			18	22.14	2.24	24.38	<=33.00	Pass
			39	21.97	2.24	24.21	<=33.00	Pass
		75	0	22.09	2.24	24.33	<=33.00	Pass
16QAM	2507.5	1	0	21.82	2.24	24.06	<=33.00	Pass
			38	21.87	2.24	24.11	<=33.00	Pass
			74	21.74	2.24	23.98	<=33.00	Pass
		36	0	20.69	2.24	22.93	<=33.00	Pass
			18	20.73	2.24	22.97	<=33.00	Pass
			39	20.76	2.24	23.00	<=33.00	Pass
		75	0	20.79	2.24	23.03	<=33.00	Pass
	2535	1	0	21.87	2.24	24.11	<=33.00	Pass
			38	22.04	2.24	24.28	<=33.00	Pass
			74	21.97	2.24	24.21	<=33.00	Pass

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		36	0	21.01	2.24	23.25	<=33.00	Pass
			18	21.05	2.24	23.29	<=33.00	Pass
			39	20.97	2.24	23.21	<=33.00	Pass
		75	0	21.05	2.24	23.29	<=33.00	Pass
	2562.5	1	0	22.46	2.24	24.70	<=33.00	Pass
			38	22.51	2.24	24.75	<=33.00	Pass
			74	22.33	2.24	24.57	<=33.00	Pass
		36	0	21.16	2.24	23.40	<=33.00	Pass
			18	21.06	2.24	23.30	<=33.00	Pass
			39	20.97	2.24	23.21	<=33.00	Pass
		75	0	21.08	2.24	23.32	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.4 B7_20MHz_EIRP

1.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	22.62	2.24	24.86	<=33.00	Pass
			50	22.91	2.24	25.15	<=33.00	Pass
			99	22.55	2.24	24.79	<=33.00	Pass
		50	0	21.54	2.24	23.78	<=33.00	Pass
			25	21.71	2.24	23.95	<=33.00	Pass
			50	21.75	2.24	23.99	<=33.00	Pass
		100	0	21.68	2.24	23.92	<=33.00	Pass
	2535	1	0	22.77	2.24	25.01	<=33.00	Pass
			50	23.09	2.24	25.33	<=33.00	Pass
			99	22.84	2.24	25.08	<=33.00	Pass
		50	0	22.01	2.24	24.25	<=33.00	Pass
			25	21.92	2.24	24.16	<=33.00	Pass
			50	21.84	2.24	24.08	<=33.00	Pass
		100	0	21.90	2.24	24.14	<=33.00	Pass
	2560	1	0	23.05	2.24	25.29	<=33.00	Pass
			50	23.29	2.24	25.53	<=33.00	Pass
			99	22.86	2.24	25.10	<=33.00	Pass
		50	0	21.99	2.24	24.23	<=33.00	Pass
			25	22.06	2.24	24.30	<=33.00	Pass
			50	21.93	2.24	24.17	<=33.00	Pass
		100	0	21.95	2.24	24.19	<=33.00	Pass
16QAM	2510	1	0	21.78	2.24	24.02	<=33.00	Pass
			50	22.29	2.24	24.53	<=33.00	Pass
			99	21.76	2.24	24.00	<=33.00	Pass
		50	0	20.61	2.24	22.85	<=33.00	Pass
			25	20.77	2.24	23.01	<=33.00	Pass
			50	20.86	2.24	23.10	<=33.00	Pass

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		100	0	20.75	2.24	22.99	<=33.00	Pass
	2535	1	0	22.14	2.24	24.38	<=33.00	Pass
			50	22.48	2.24	24.72	<=33.00	Pass
			99	22.26	2.24	24.50	<=33.00	Pass
		50	0	21.03	2.24	23.27	<=33.00	Pass
			25	20.97	2.24	23.21	<=33.00	Pass
			50	20.93	2.24	23.17	<=33.00	Pass
		100	0	20.95	2.24	23.19	<=33.00	Pass
	2560	1	0	22.24	2.24	24.48	<=33.00	Pass
			50	22.45	2.24	24.69	<=33.00	Pass
			99	22.04	2.24	24.28	<=33.00	Pass
		50	0	21.10	2.24	23.34	<=33.00	Pass
			25	21.12	2.24	23.36	<=33.00	Pass
			50	21.00	2.24	23.24	<=33.00	Pass
		100	0	21.08	2.24	23.32	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

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2. Frequency Stability

2.4 B7_20MHz

2.4.1 Test Result

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2510	100	0	20	8	-3.701	-0.0015	/	Pass
					12	-2.001	-0.0008	/	Pass
					16	-3.771	-0.0015	/	Pass
				-30	12	-3.751	-0.0015	/	Pass
				-20	12	-3.184	-0.0013	/	Pass
				-10	12	-2.704	-0.0011	/	Pass
				0	12	-7.148	-0.0028	/	Pass
				10	12	-2.767	-0.0011	/	Pass
				30	12	-1.024	-0.0004	/	Pass
				40	12	-0.523	-0.0002	/	Pass
				50	12	0.075	0.0000	/	Pass
	2535	100	0	20	8	-8.321	-0.0033	/	Pass
					12	-5.044	-0.0020	/	Pass
					16	-7.613	-0.0030	/	Pass
				-30	12	-5.799	-0.0023	/	Pass
				-20	12	-9.530	-0.0038	/	Pass
				-10	12	-6.082	-0.0024	/	Pass
				0	12	-12.519	-0.0049	/	Pass
				10	12	-2.255	-0.0009	/	Pass
				30	12	-4.009	-0.0016	/	Pass
				40	12	-5.401	-0.0021	/	Pass
				50	12	-2.973	-0.0012	/	Pass
	2560	100	0	20	8	1.488	0.0006	/	Pass
					12	-3.343	-0.0013	/	Pass
					16	-7.309	-0.0029	/	Pass
				-30	12	-1.409	-0.0006	/	Pass
				-20	12	-4.948	-0.0019	/	Pass
				-10	12	-5.110	-0.0020	/	Pass
				0	12	-6.452	-0.0025	/	Pass
				10	12	-2.729	-0.0011	/	Pass
				30	12	-2.316	-0.0009	/	Pass
				40	12	-8.290	-0.0032	/	Pass
				50	12	-6.103	-0.0024	/	Pass
16QAM	2510	100	0	20	8	-1.617	-0.0006	/	Pass
					12	-1.851	-0.0007	/	Pass
					16	-1.523	-0.0006	/	Pass
				-30	12	-2.825	-0.0011	/	Pass
				-20	12	-7.758	-0.0031	/	Pass
				-10	12	-2.977	-0.0012	/	Pass

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				0	12	-2.259	-0.0009	/	Pass
				10	12	-0.971	-0.0004	/	Pass
				30	12	-1.141	-0.0005	/	Pass
				40	12	-2.119	-0.0008	/	Pass
				50	12	-4.454	-0.0018	/	Pass
	2535	100	0	20	8	-1.272	-0.0005	/	Pass
					12	-9.257	-0.0037	/	Pass
					16	-11.120	-0.0044	/	Pass
				-30	12	-12.835	-0.0051	/	Pass
				-20	12	-10.343	-0.0041	/	Pass
				-10	12	-11.415	-0.0045	/	Pass
				0	12	-11.724	-0.0046	/	Pass
				10	12	-15.241	-0.0060	/	Pass
				30	12	-10.758	-0.0042	/	Pass
				40	12	-5.692	-0.0022	/	Pass
				50	12	-3.805	-0.0015	/	Pass
	2560	100	0	20	8	-10.777	-0.0042	/	Pass
					12	-4.385	-0.0017	/	Pass
					16	-0.930	-0.0004	/	Pass
				-30	12	-1.352	-0.0005	/	Pass
				-20	12	-0.682	-0.0003	/	Pass
				-10	12	-5.265	-0.0021	/	Pass
				0	12	-6.027	-0.0024	/	Pass
				10	12	-8.629	-0.0034	/	Pass
				30	12	-4.040	-0.0016	/	Pass
				40	12	-9.248	-0.0036	/	Pass
				50	12	-10.575	-0.0041	/	Pass

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3. 99% & 26dB Bandwidth

3.1 Band7_OBW

3.1.1 Test Result

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.564	/	Pass
		2535	25	0	4.579	/	Pass
		2567.5	25	0	4.566	/	Pass
	16QAM	2502.5	25	0	4.601	/	Pass
		2535	25	0	4.589	/	Pass
		2567.5	25	0	4.558	/	Pass
10	QPSK	2505	50	0	9.084	/	Pass
		2535	50	0	9.065	/	Pass
		2565	50	0	9.083	/	Pass
	16QAM	2505	50	0	9.082	/	Pass
		2535	50	0	9.082	/	Pass
		2565	50	0	9.063	/	Pass
15	QPSK	2507.5	75	0	13.623	/	Pass
		2535	75	0	13.598	/	Pass
		2562.5	75	0	13.609	/	Pass
	16QAM	2507.5	75	0	13.641	/	Pass
		2535	75	0	13.628	/	Pass
		2562.5	75	0	13.621	/	Pass
20	QPSK	2510	100	0	18.128	/	Pass
		2535	100	0	18.106	/	Pass
		2560	100	0	18.125	/	Pass
	16QAM	2510	100	0	18.171	/	Pass
		2535	100	0	18.109	/	Pass
		2560	100	0	18.102	/	Pass

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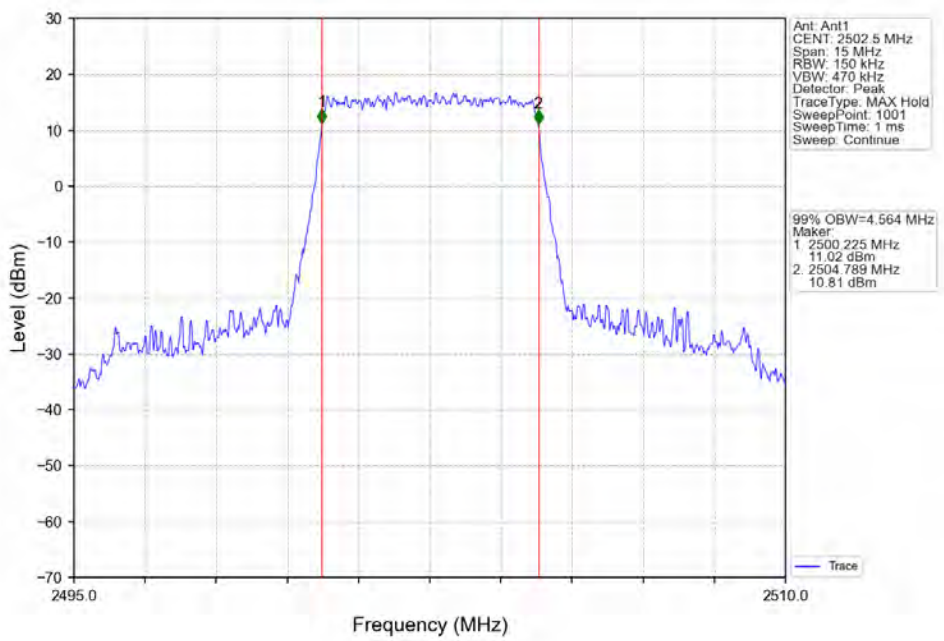
3.1.2 Test Graph

Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV

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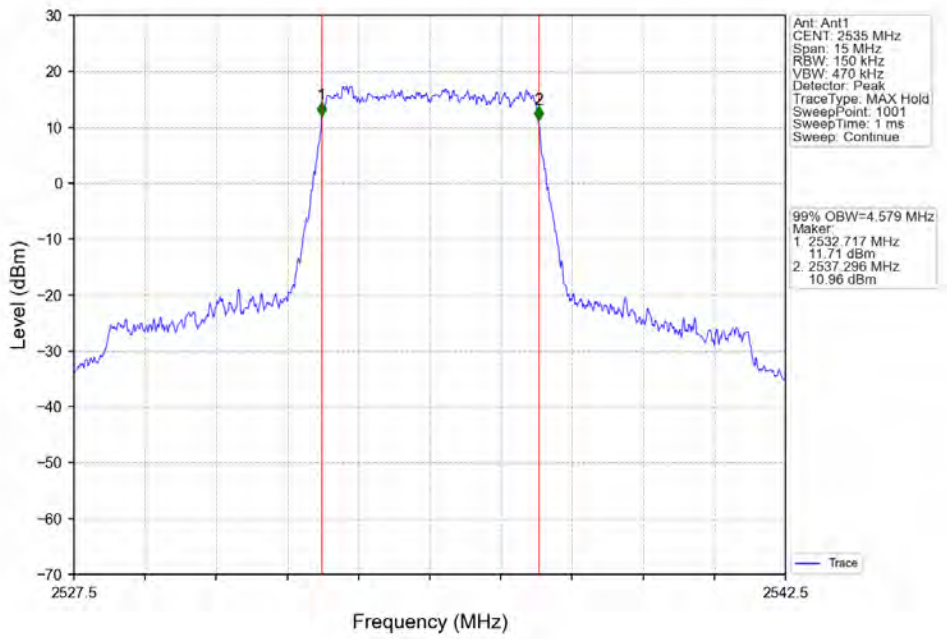

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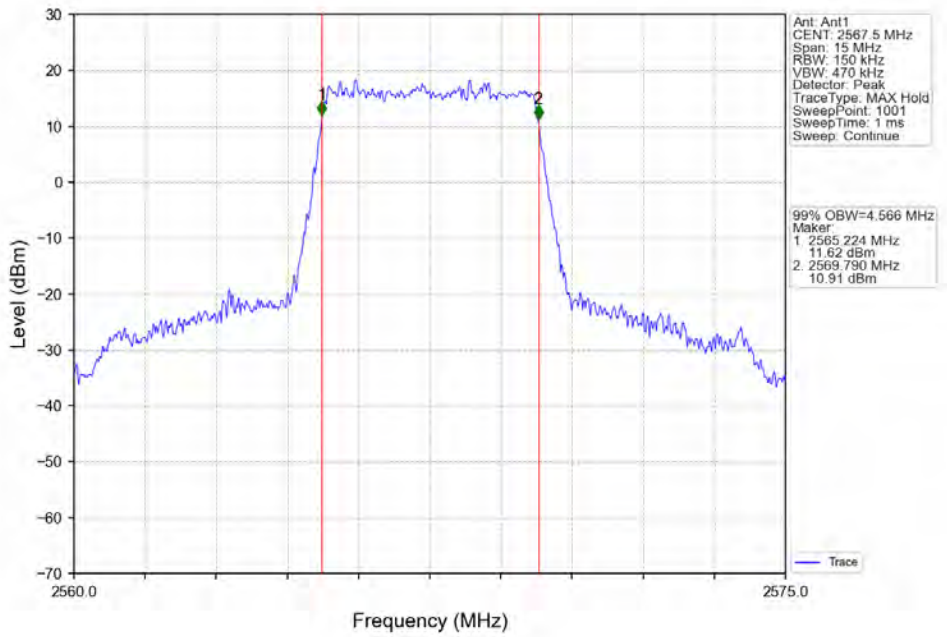
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV

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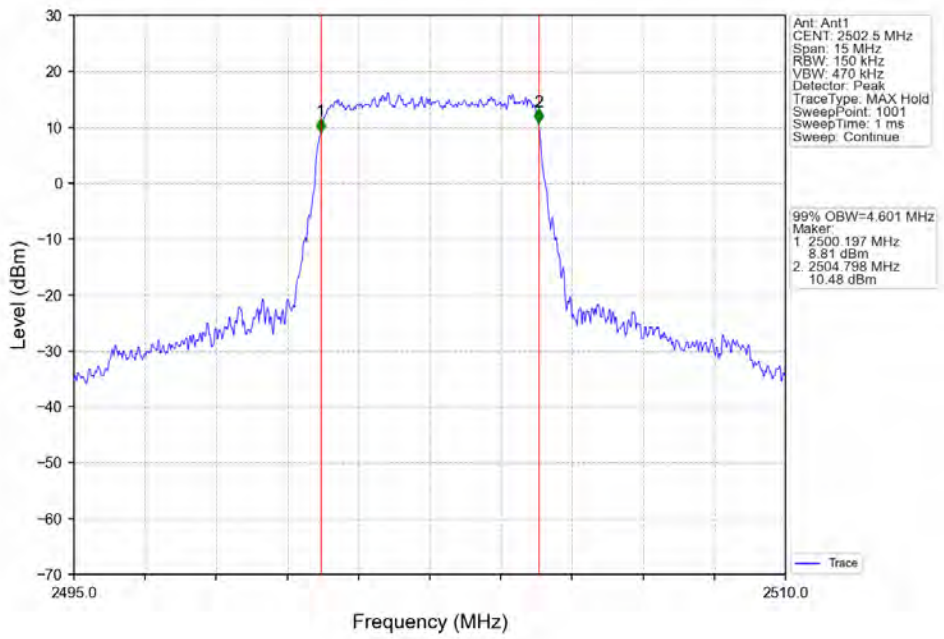

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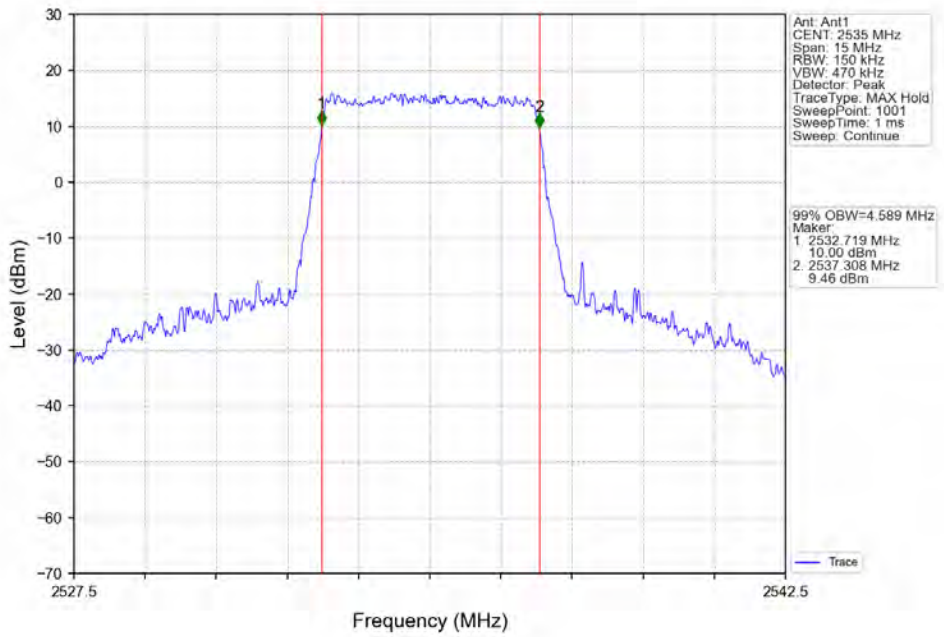

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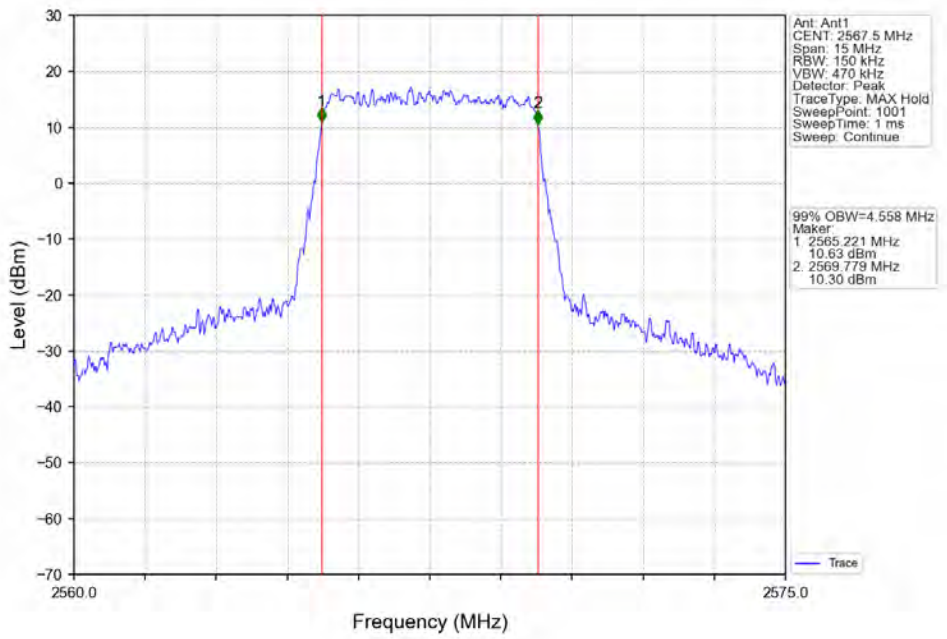

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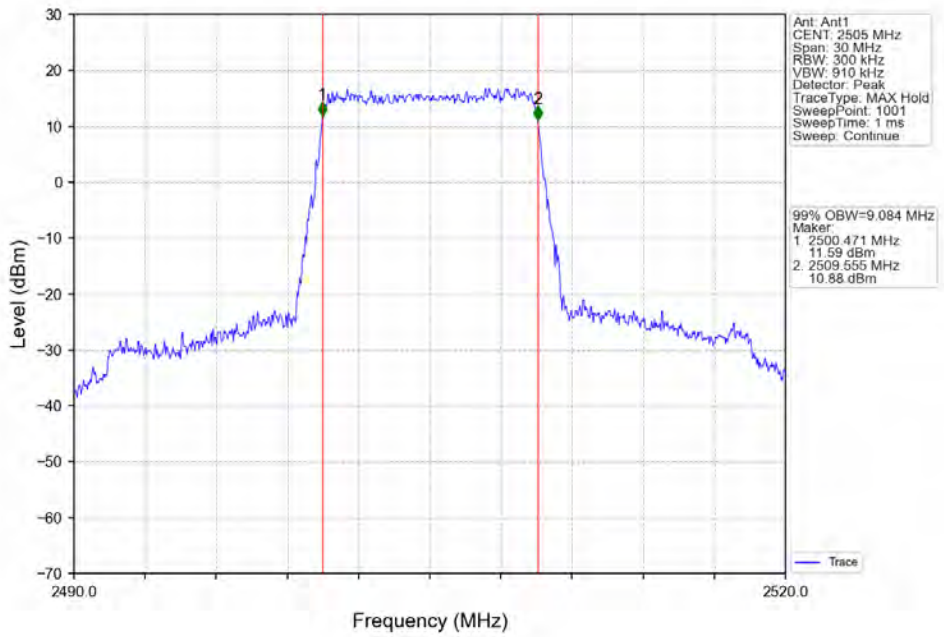
Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



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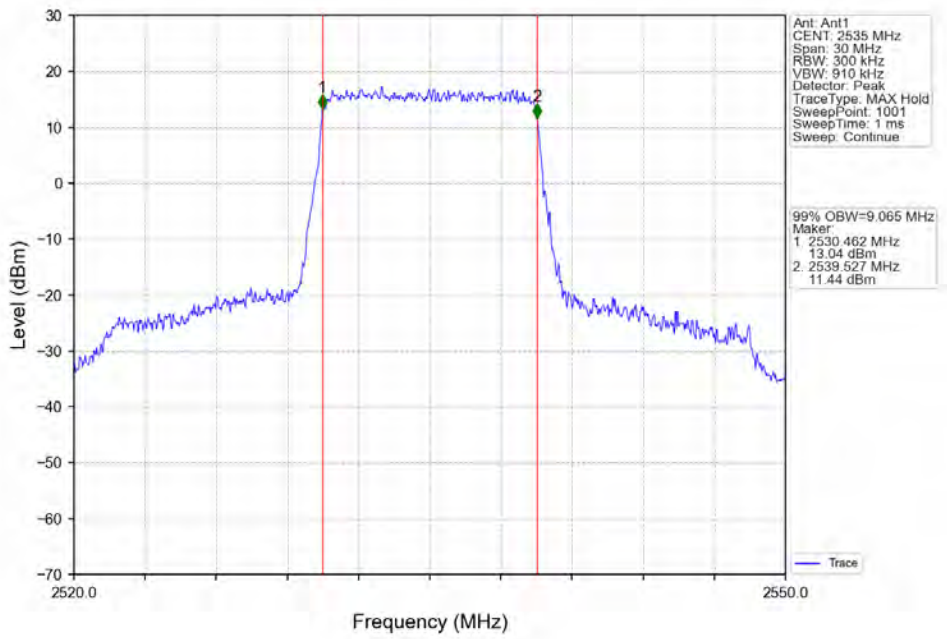

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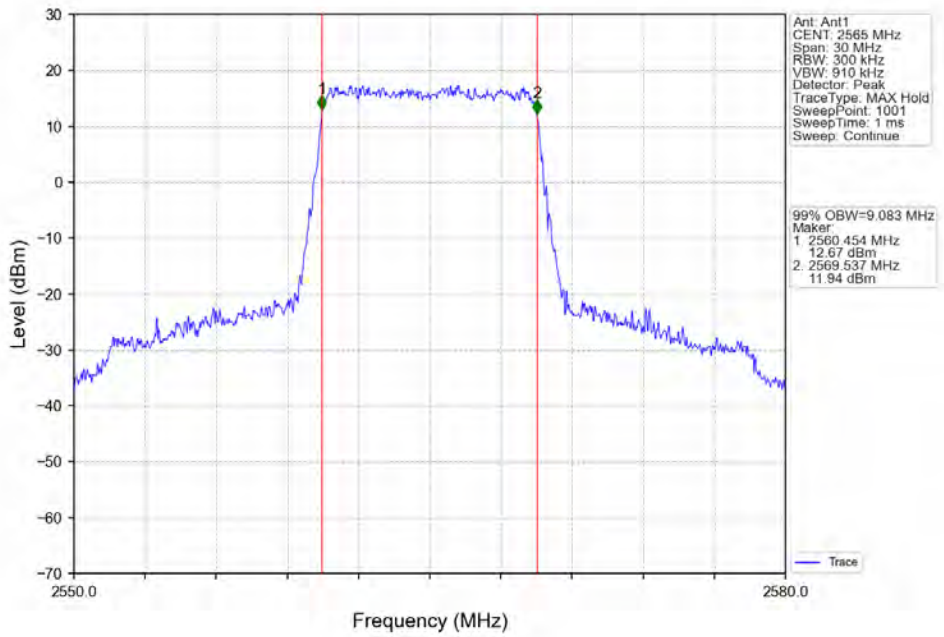

Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV

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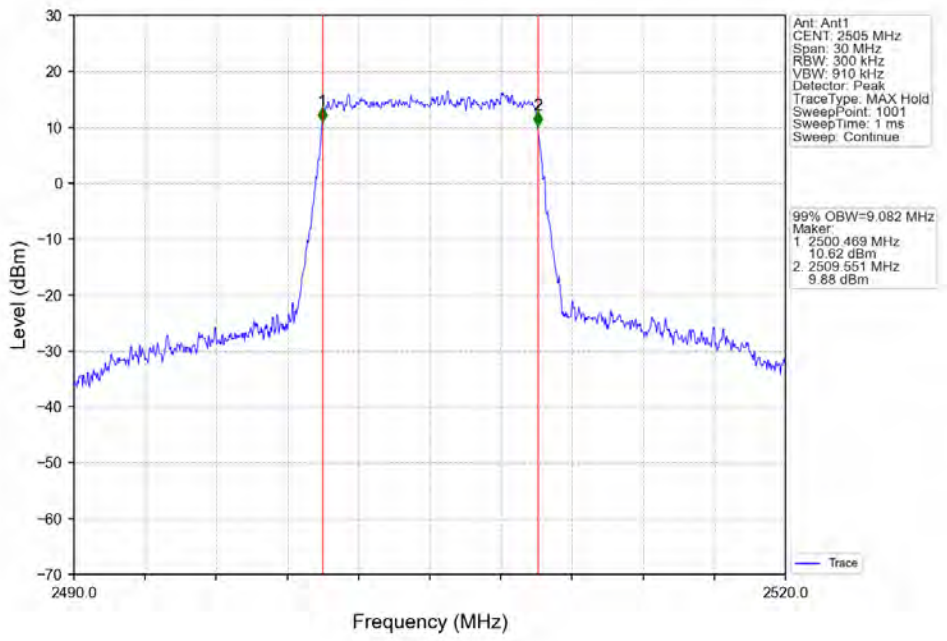

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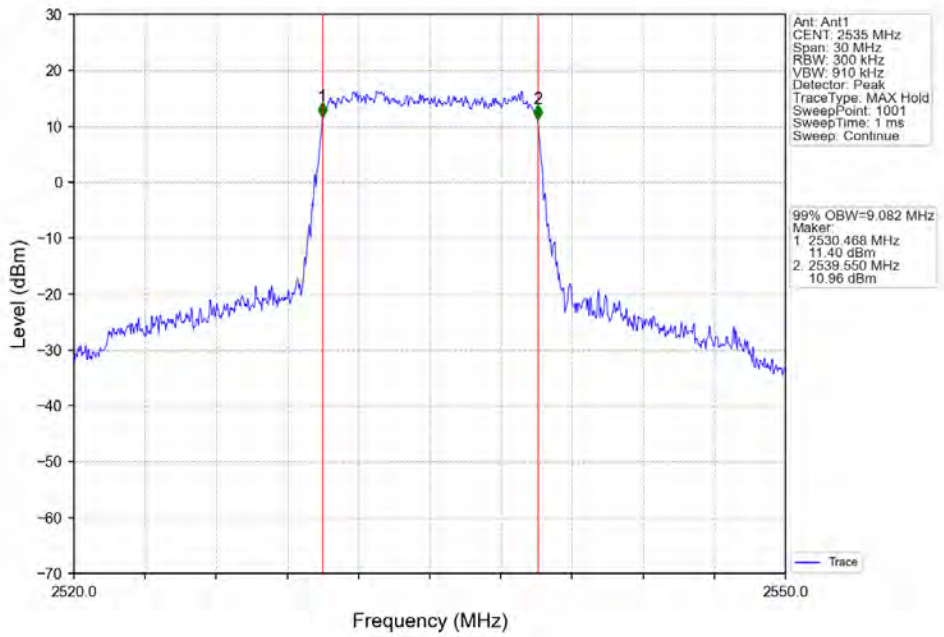
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



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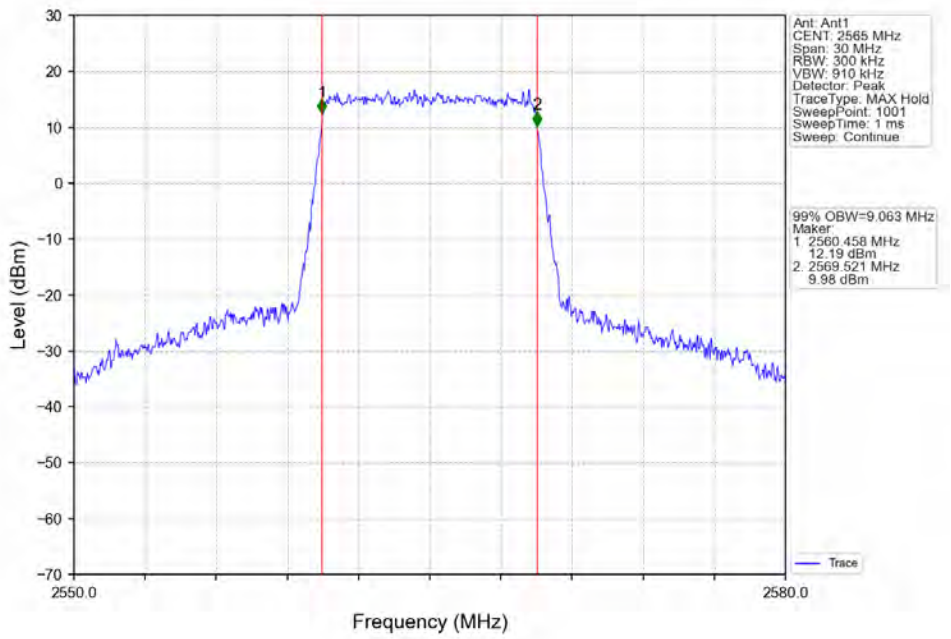

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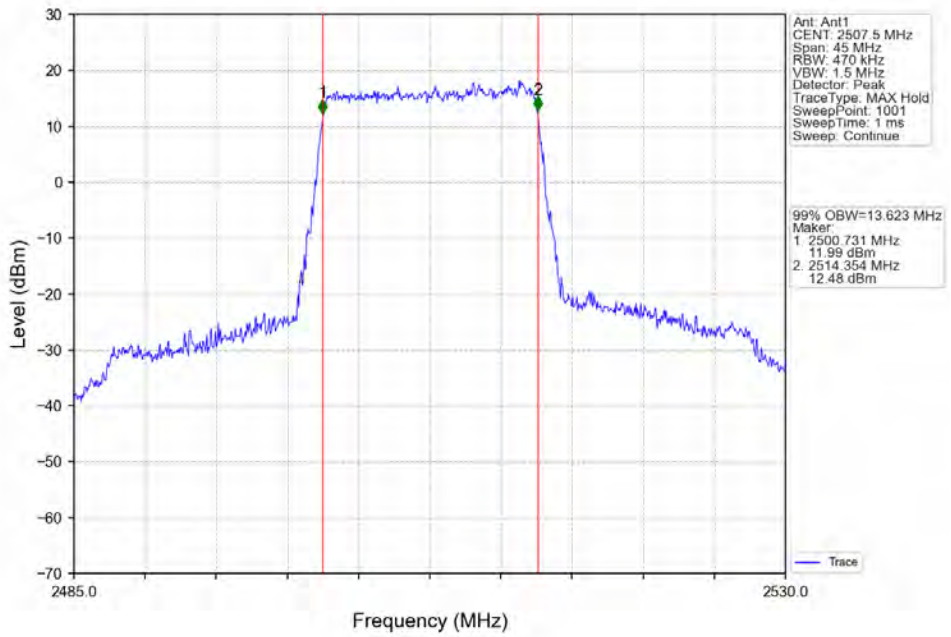

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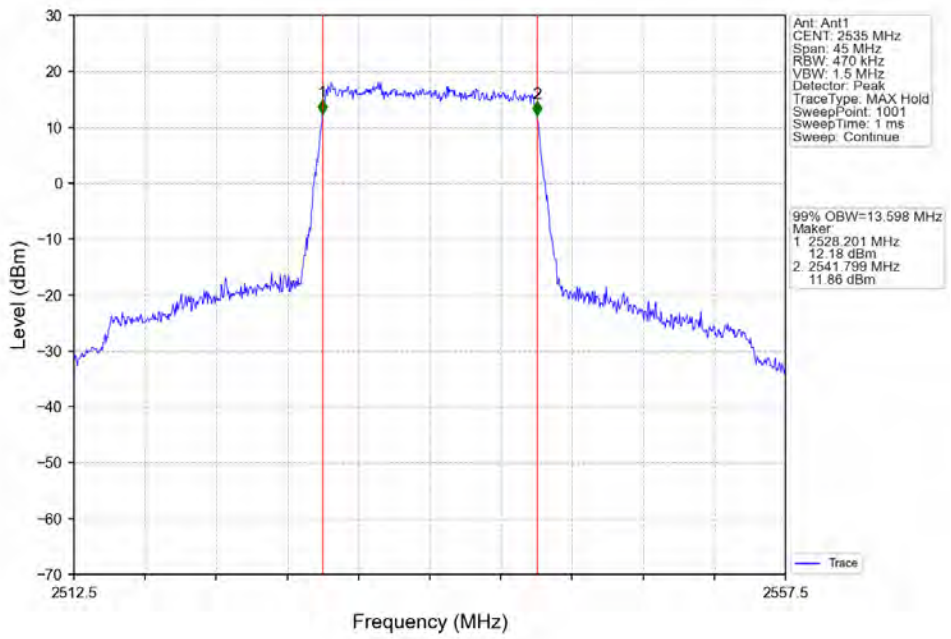

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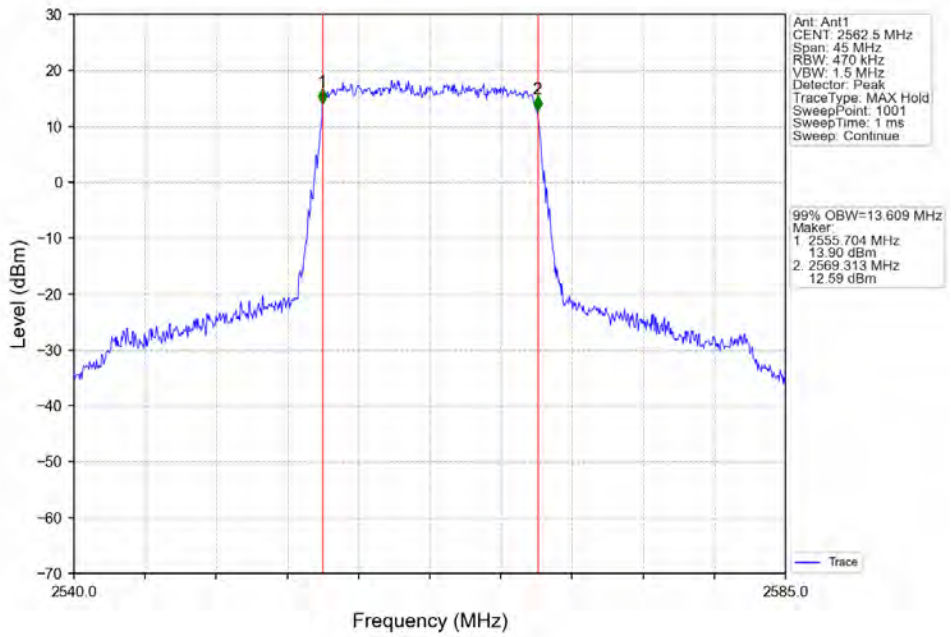

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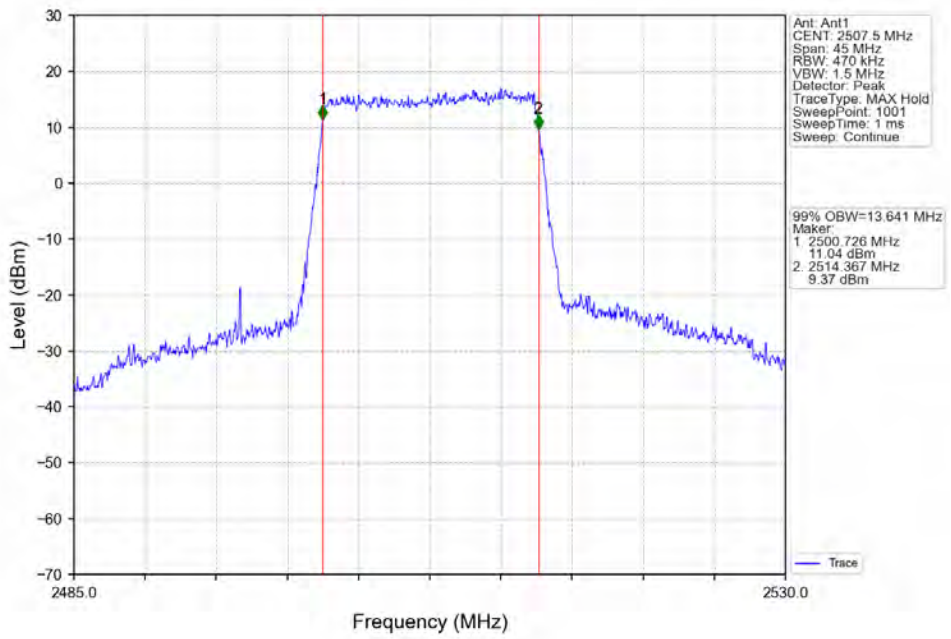

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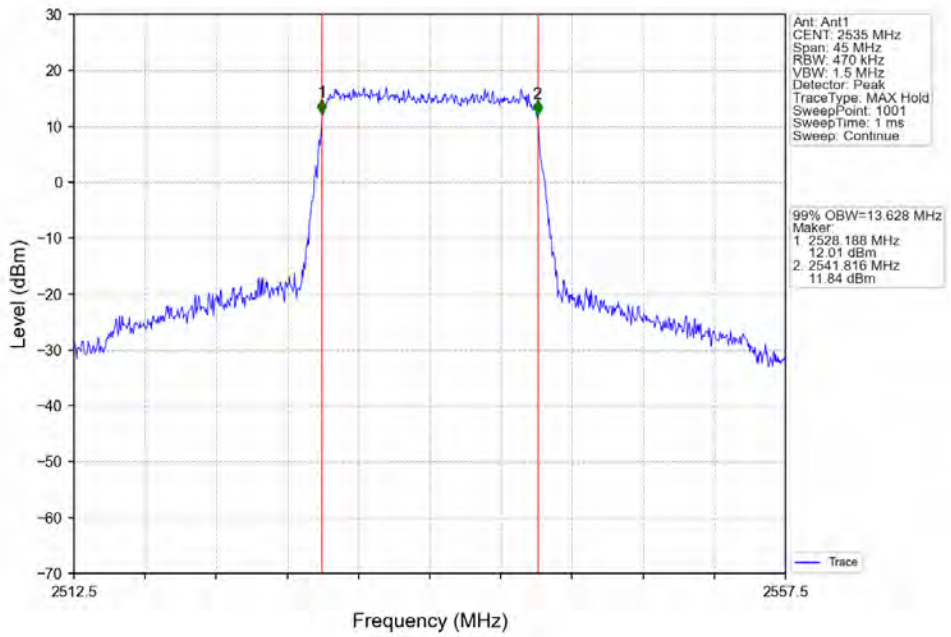

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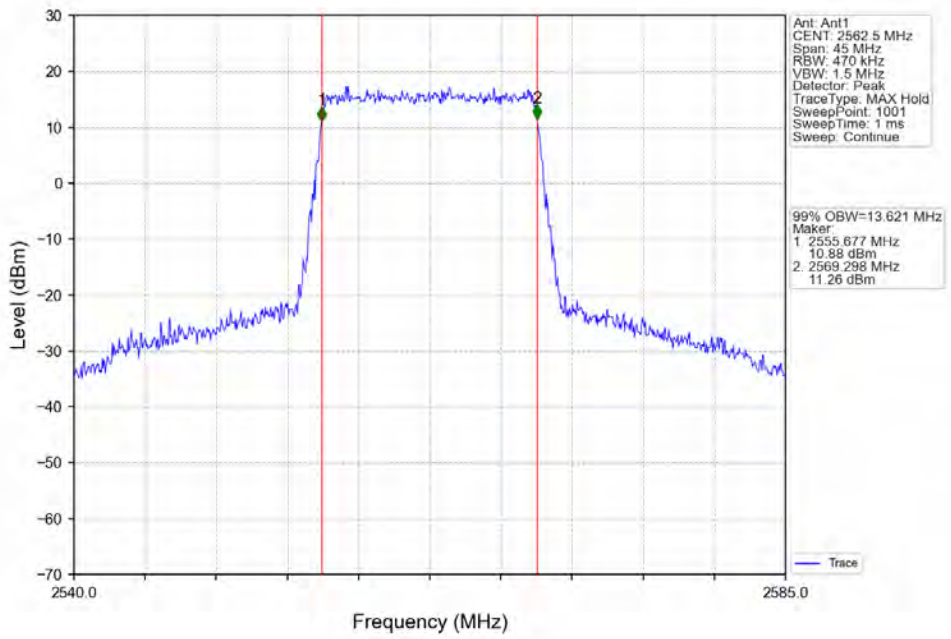

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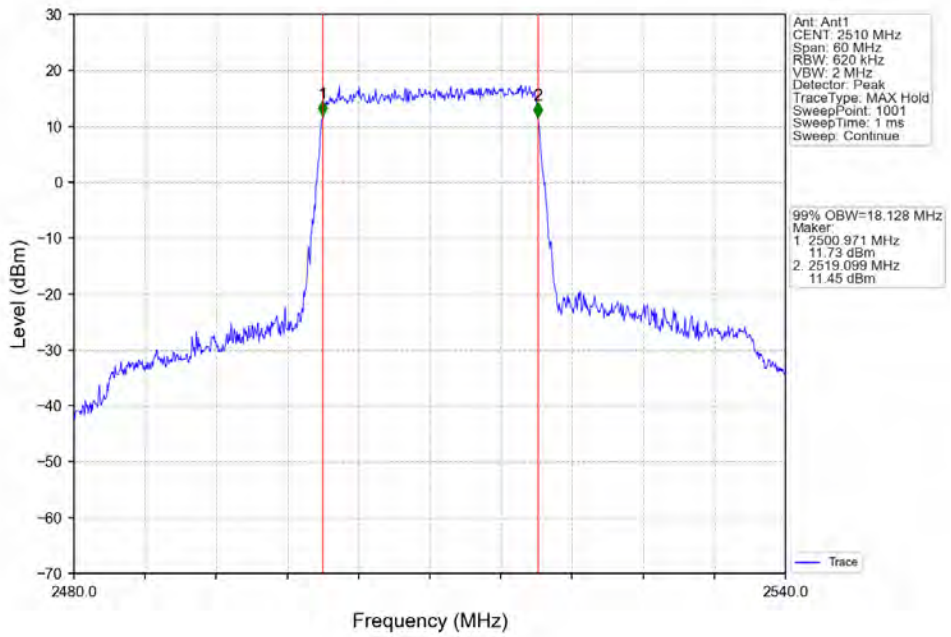

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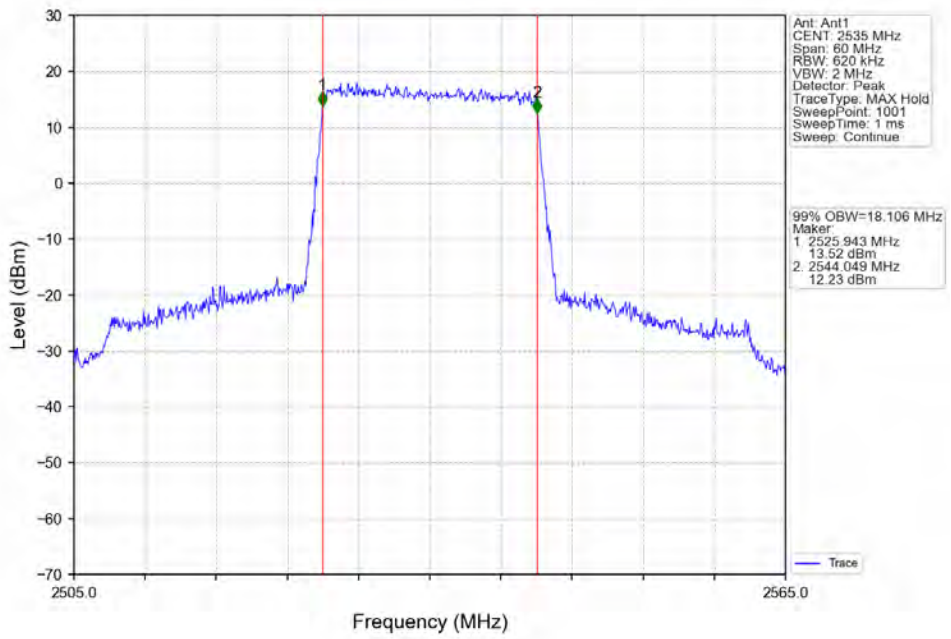

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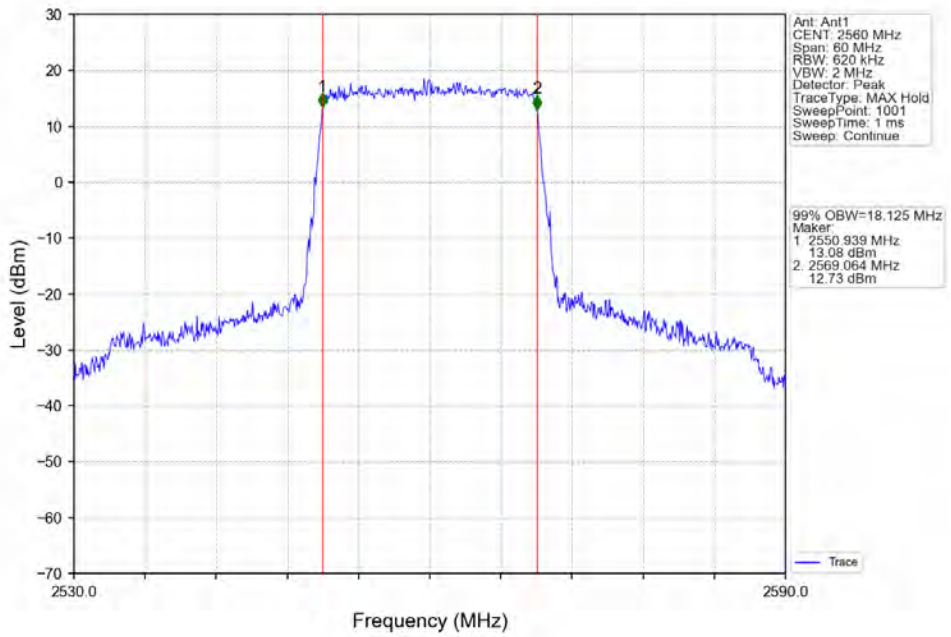

Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV

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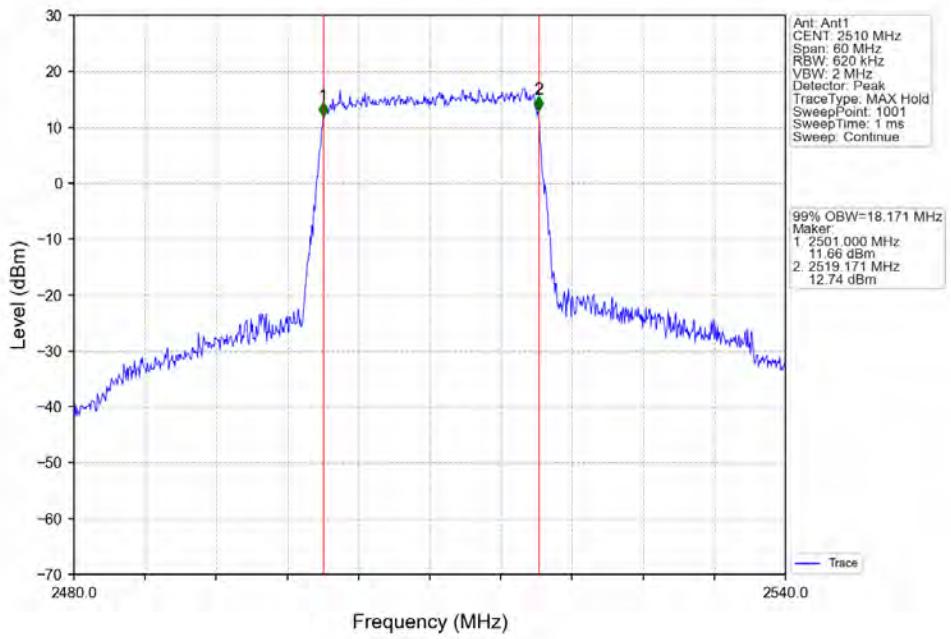

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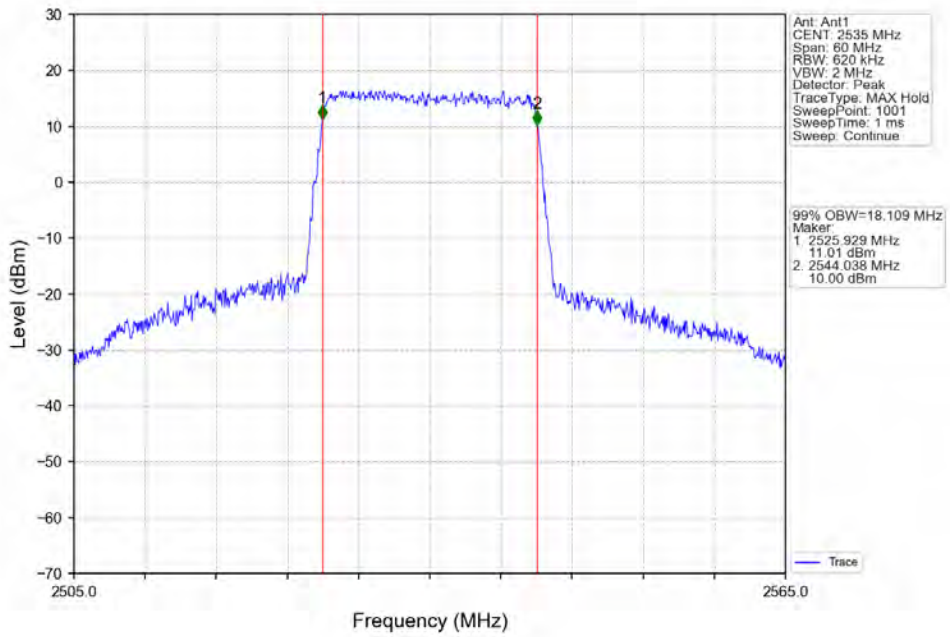

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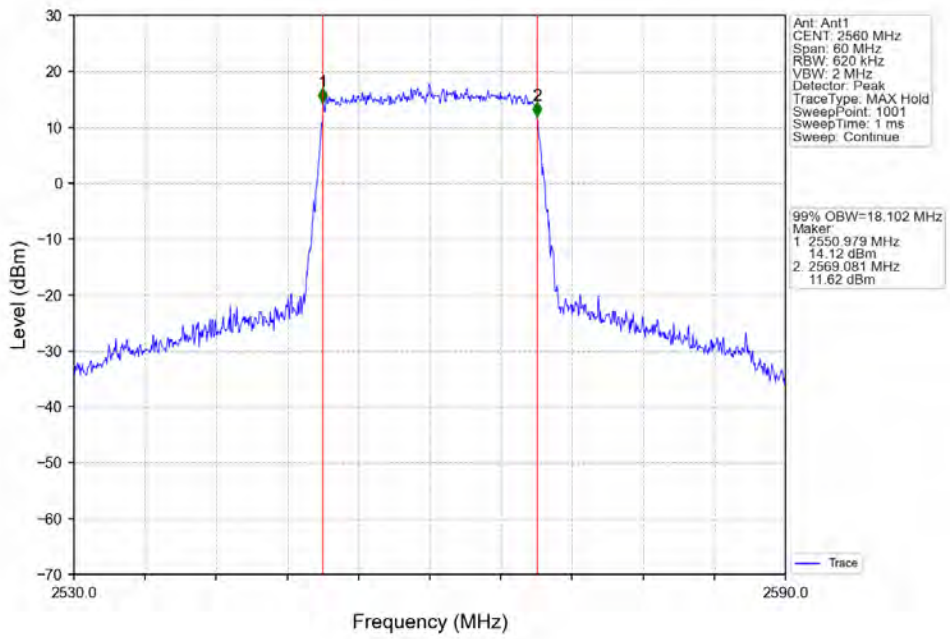

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3.2 Band7_XDB

3.2.1 Test Result

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.256	/	Pass
		2535	25	0	5.291	/	Pass
		2567.5	25	0	5.237	/	Pass
	16QAM	2502.5	25	0	5.294	/	Pass
		2535	25	0	5.312	/	Pass
		2567.5	25	0	5.220	/	Pass
10	QPSK	2505	50	0	10.360	/	Pass
		2535	50	0	10.277	/	Pass
		2565	50	0	10.259	/	Pass
	16QAM	2505	50	0	10.223	/	Pass
		2535	50	0	10.160	/	Pass
		2565	50	0	10.217	/	Pass
15	QPSK	2507.5	75	0	15.199	/	Pass
		2535	75	0	15.122	/	Pass
		2562.5	75	0	15.374	/	Pass
	16QAM	2507.5	75	0	15.362	/	Pass
		2535	75	0	15.229	/	Pass
		2562.5	75	0	15.348	/	Pass
20	QPSK	2510	100	0	19.939	/	Pass
		2535	100	0	19.986	/	Pass
		2560	100	0	20.225	/	Pass
	16QAM	2510	100	0	20.139	/	Pass
		2535	100	0	20.134	/	Pass
		2560	100	0	20.030	/	Pass

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3.2.2 Test Graph

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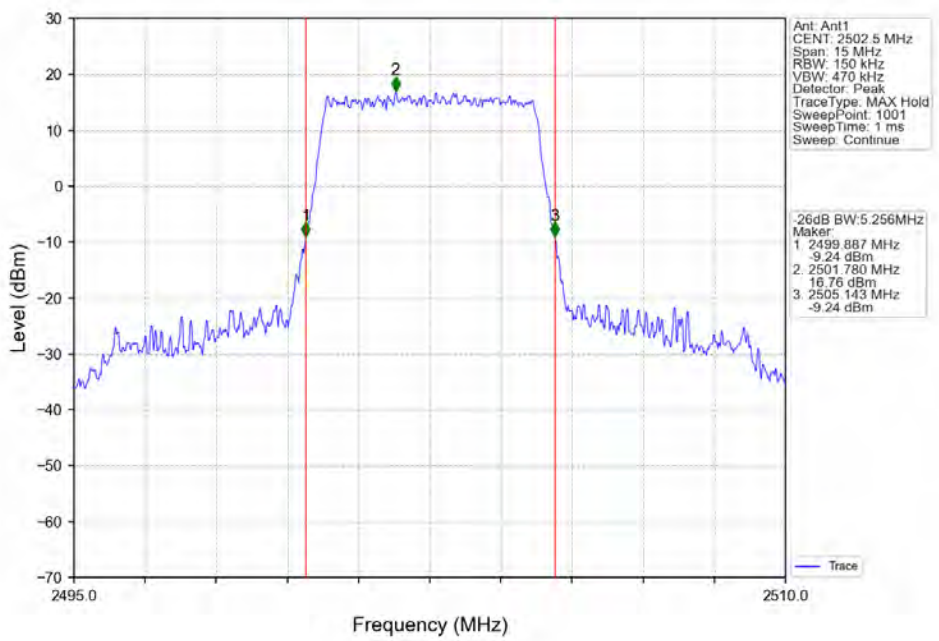

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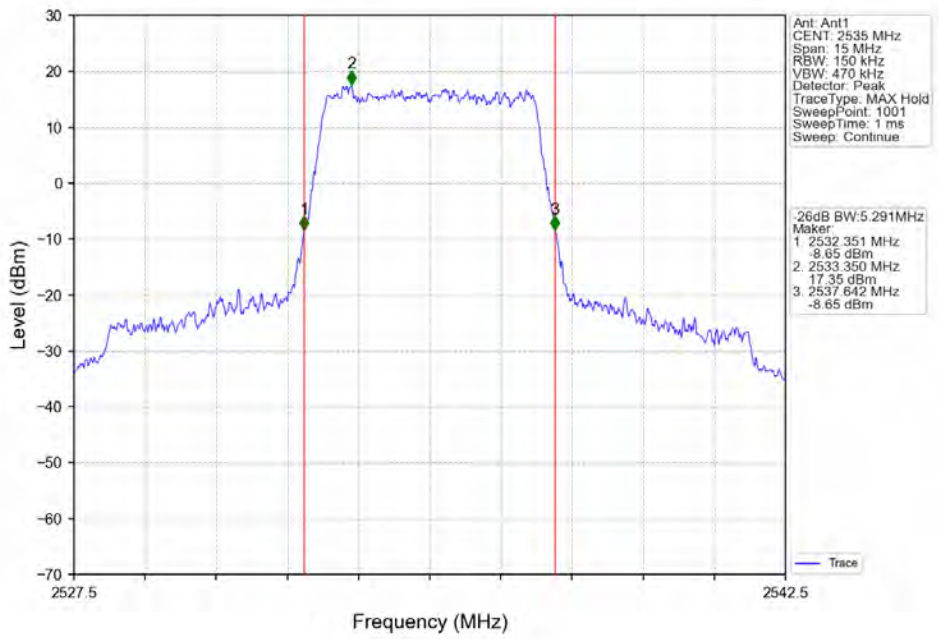

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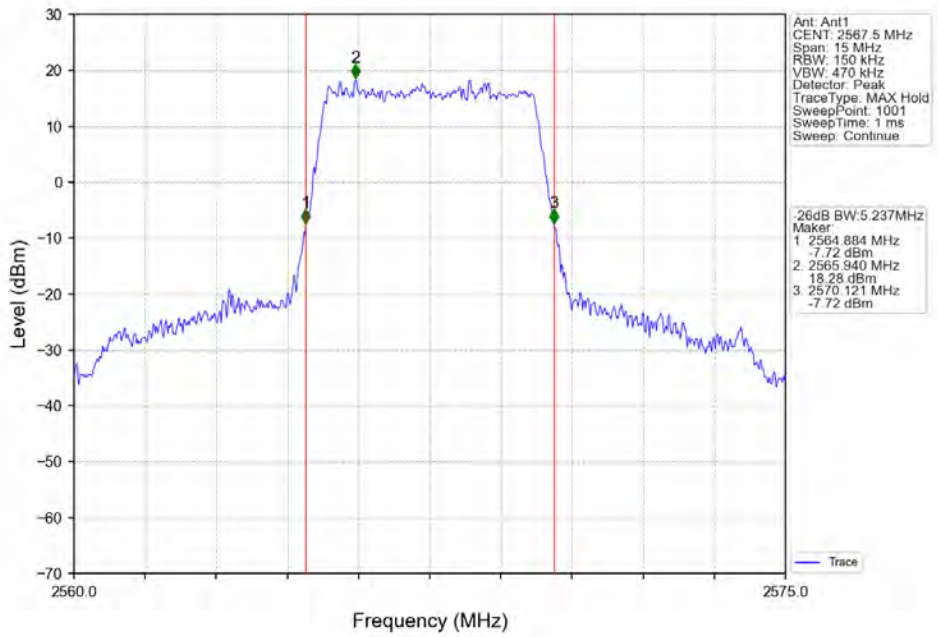

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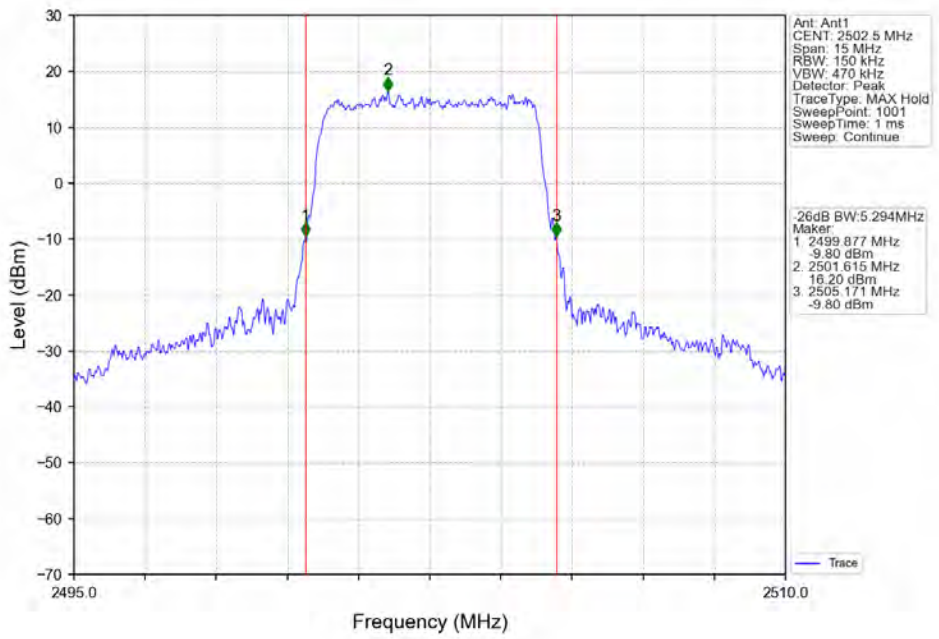

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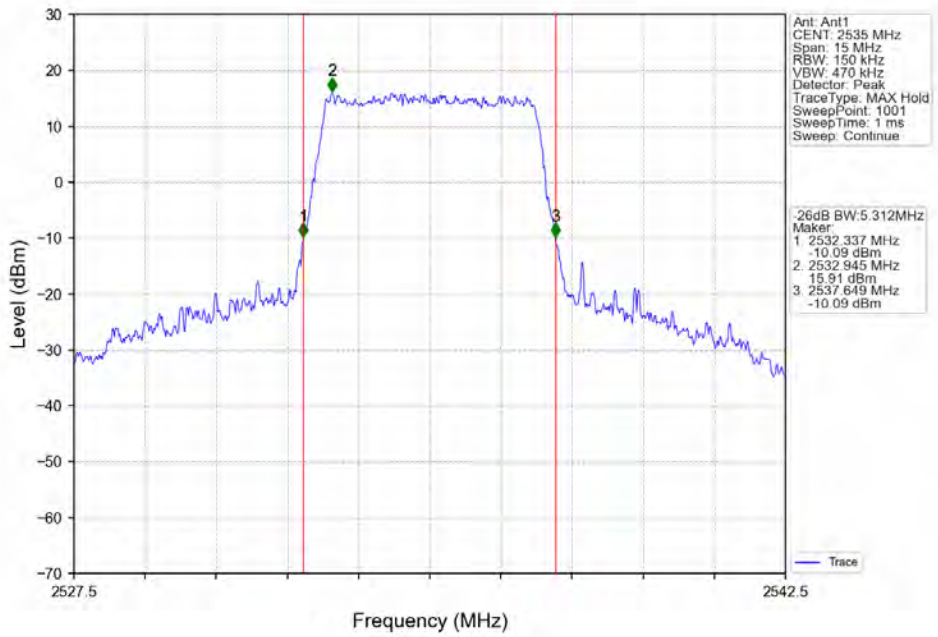

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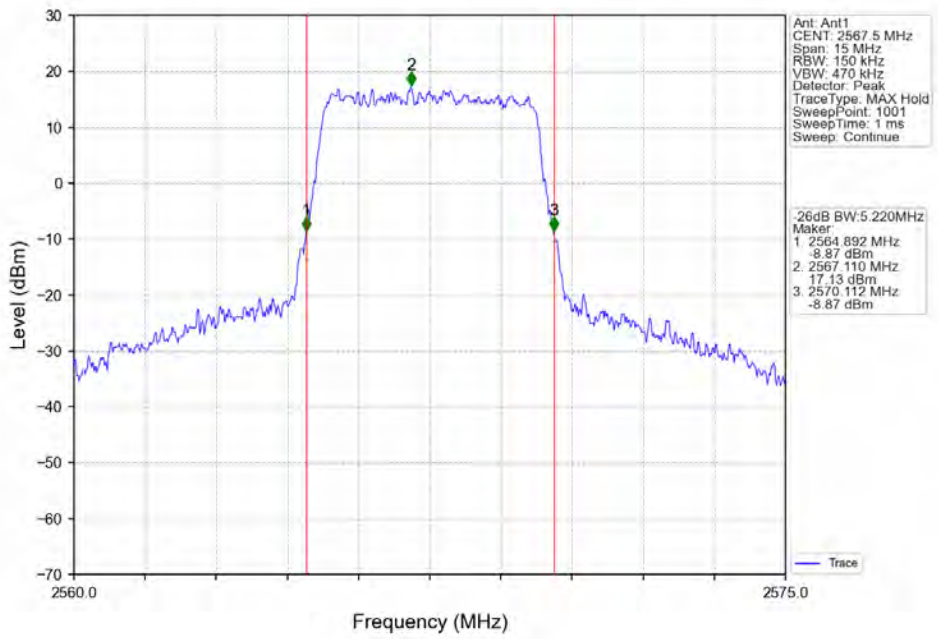

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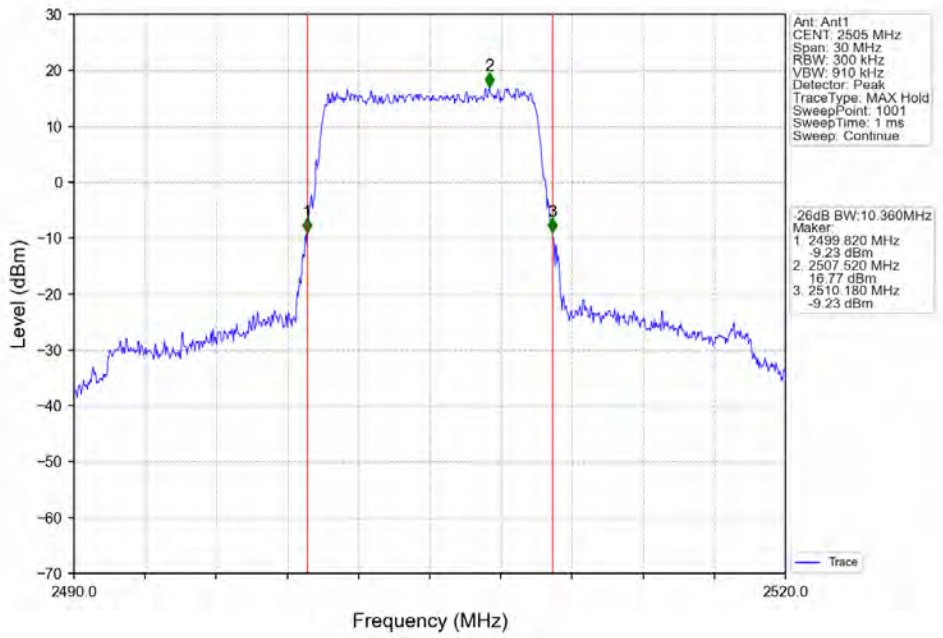

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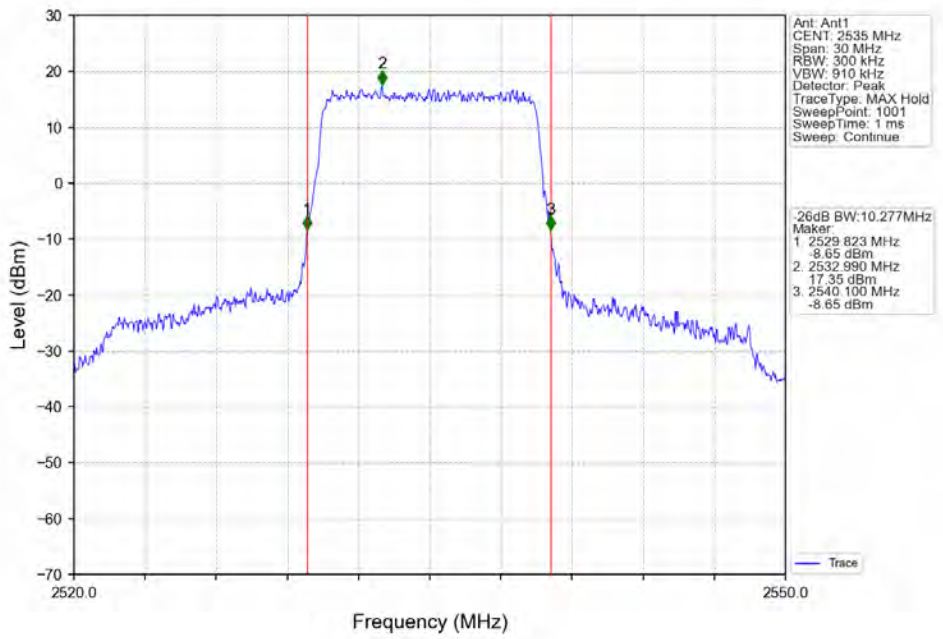

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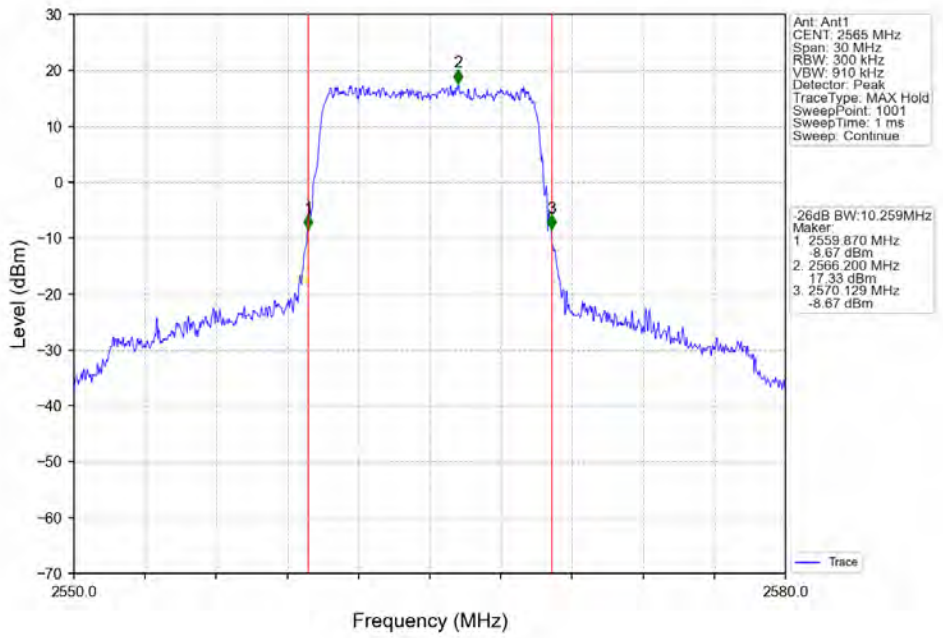
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



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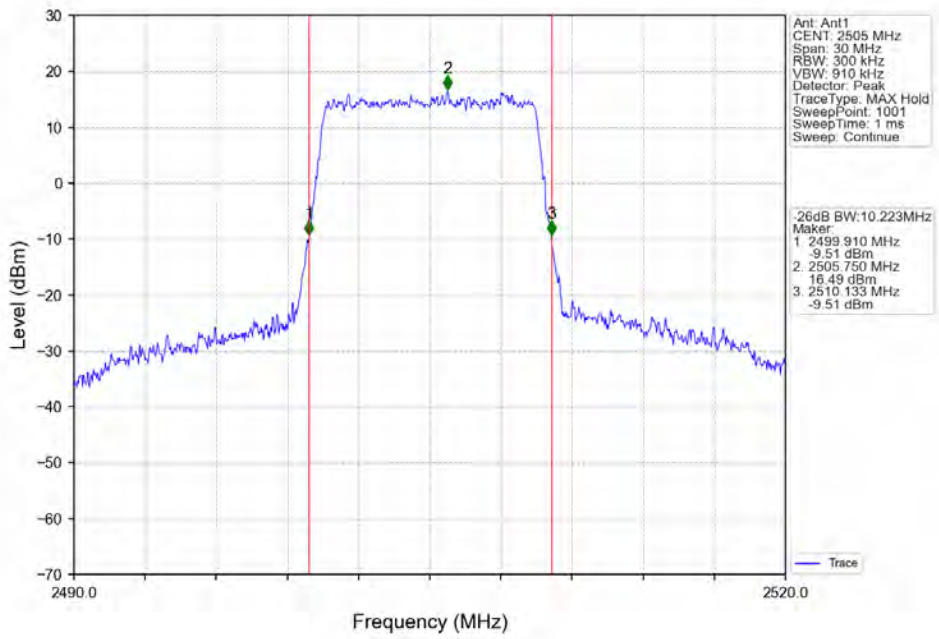

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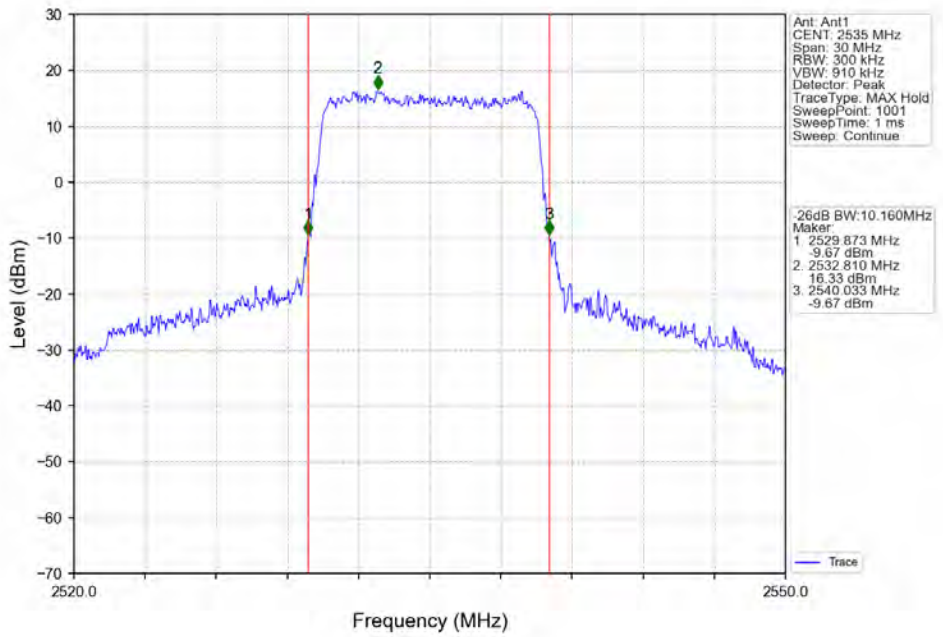

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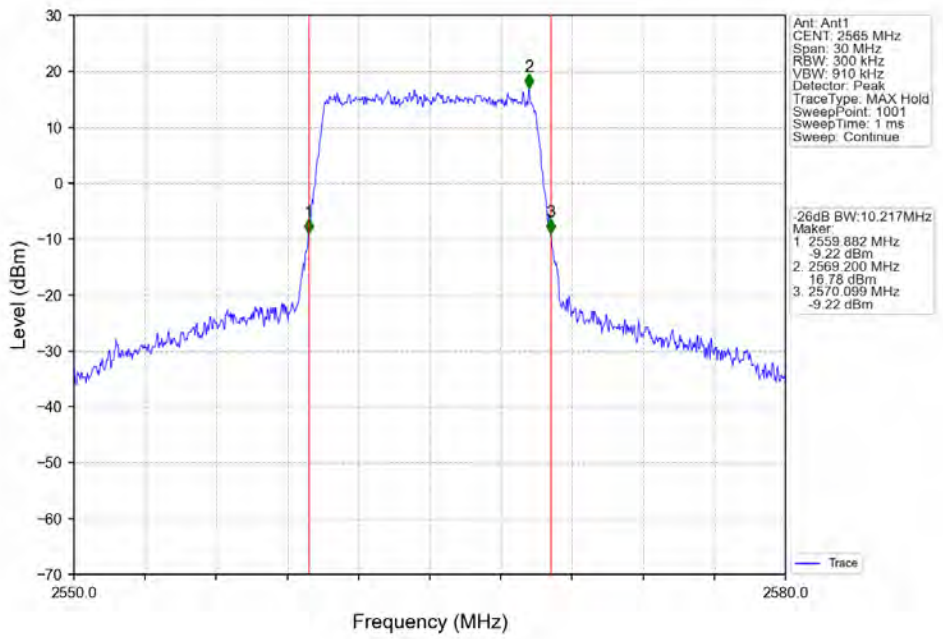

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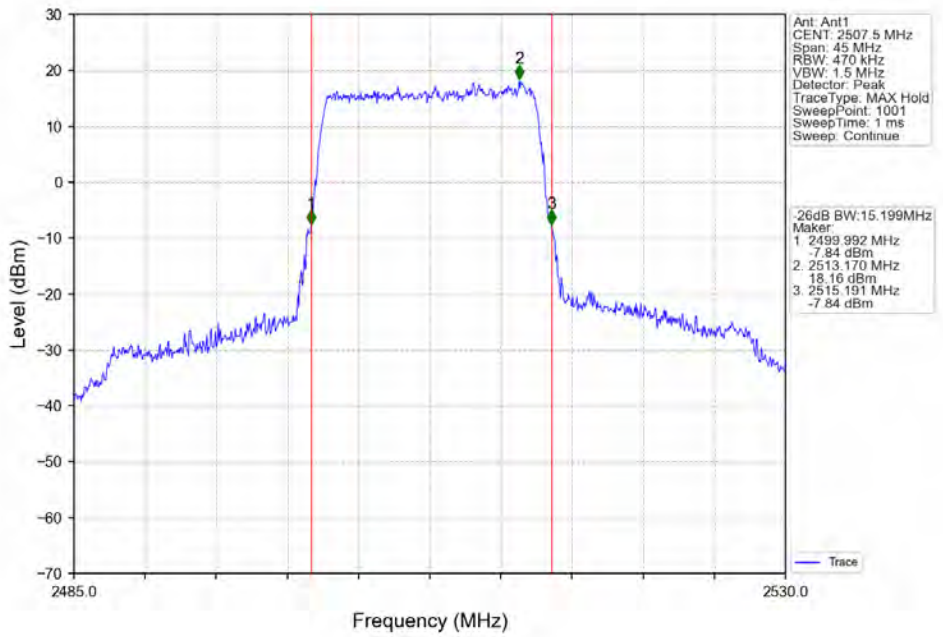

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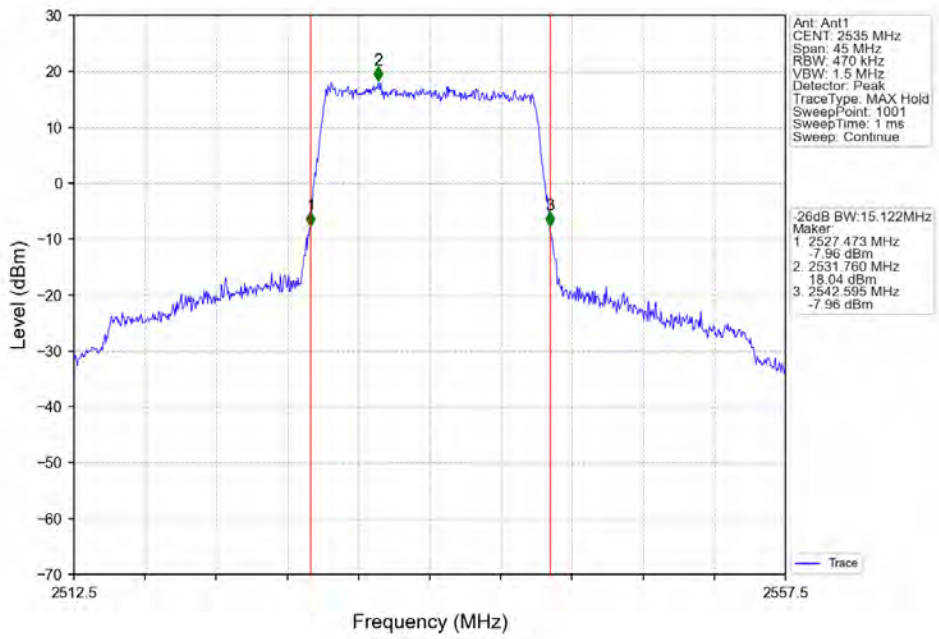

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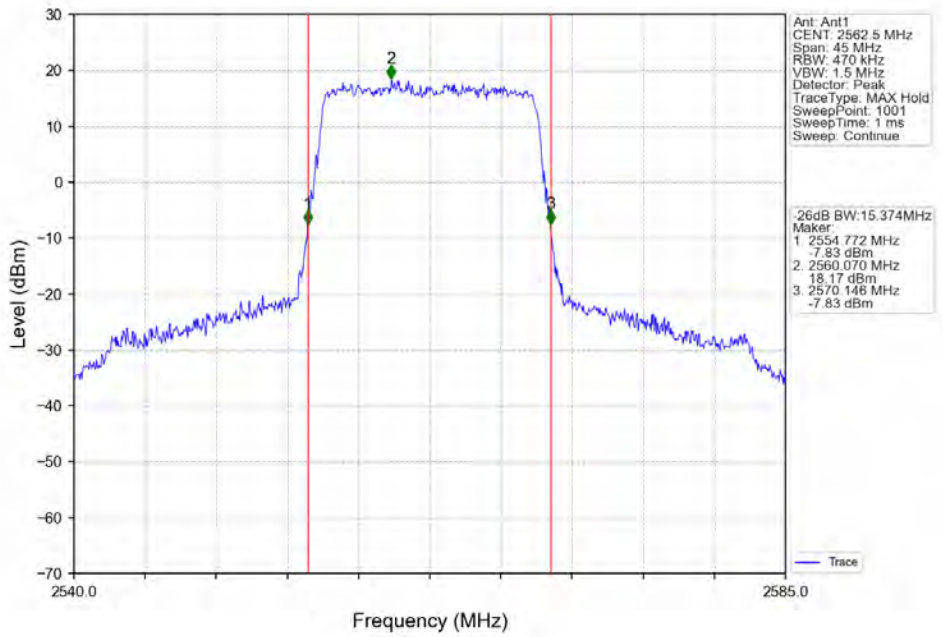

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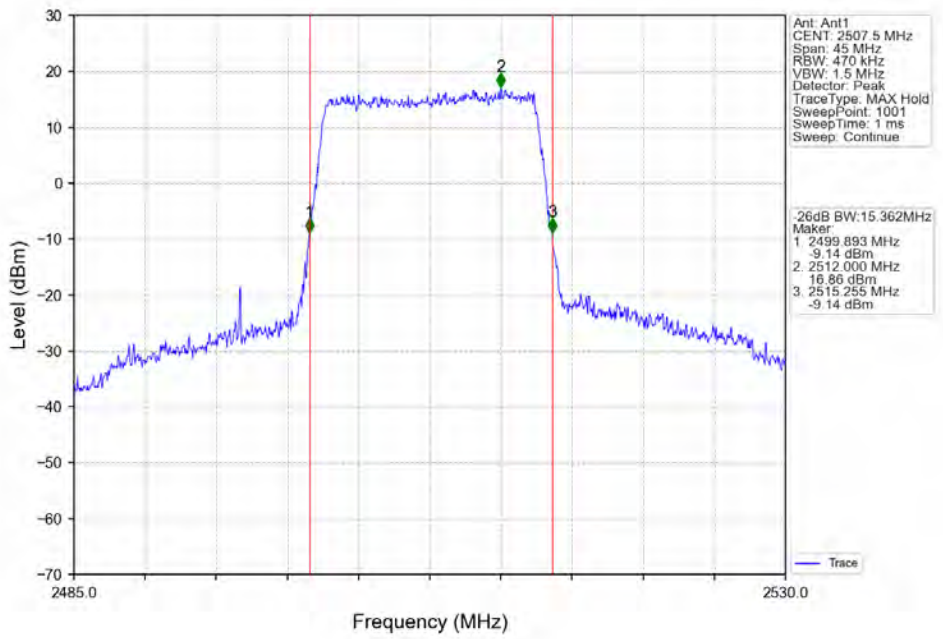

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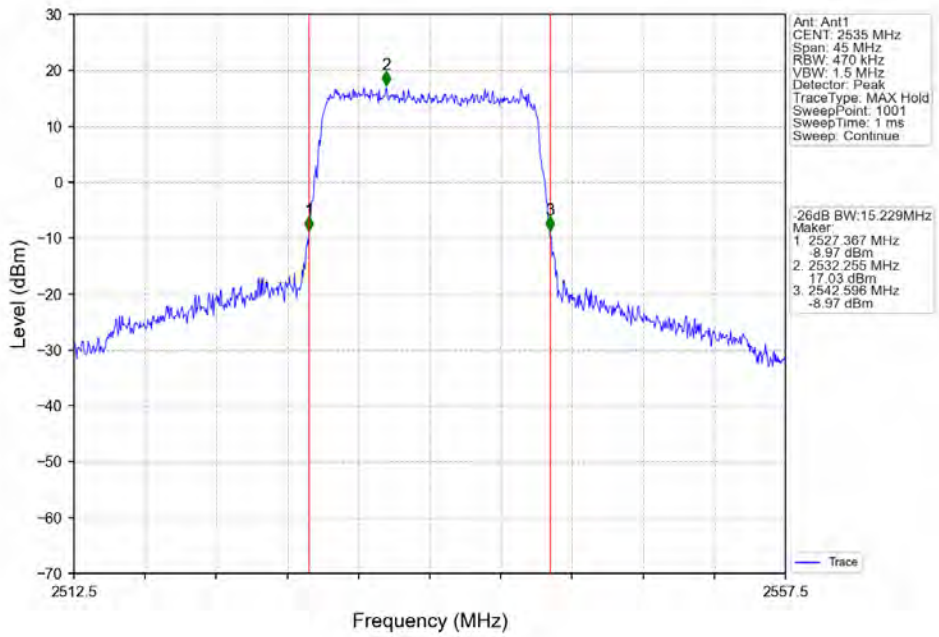

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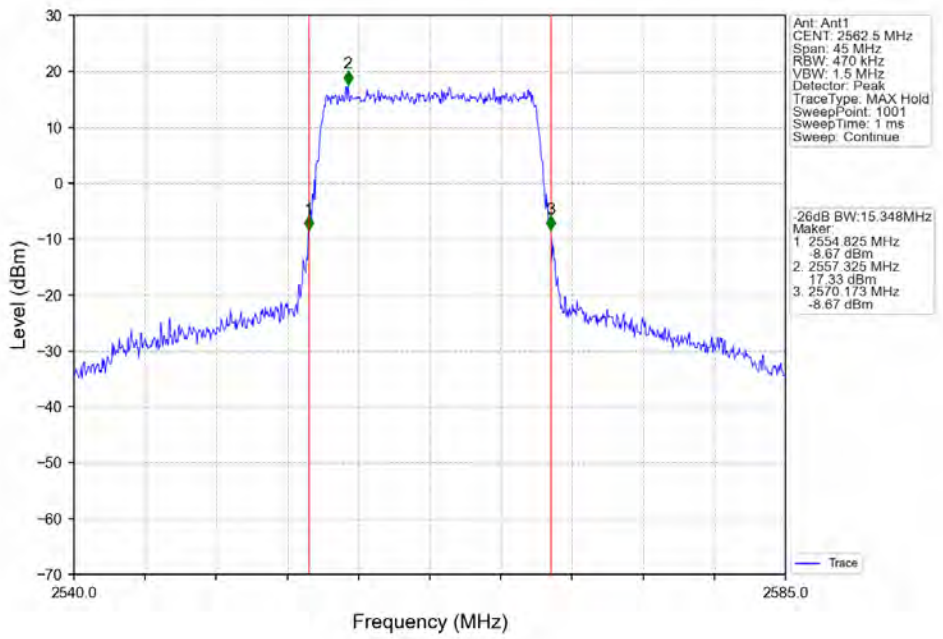

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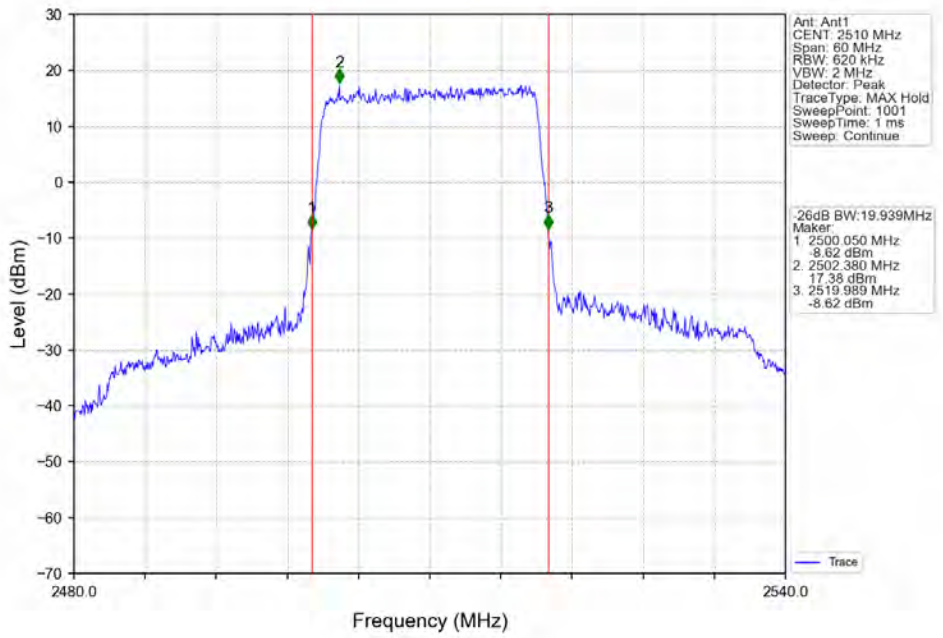

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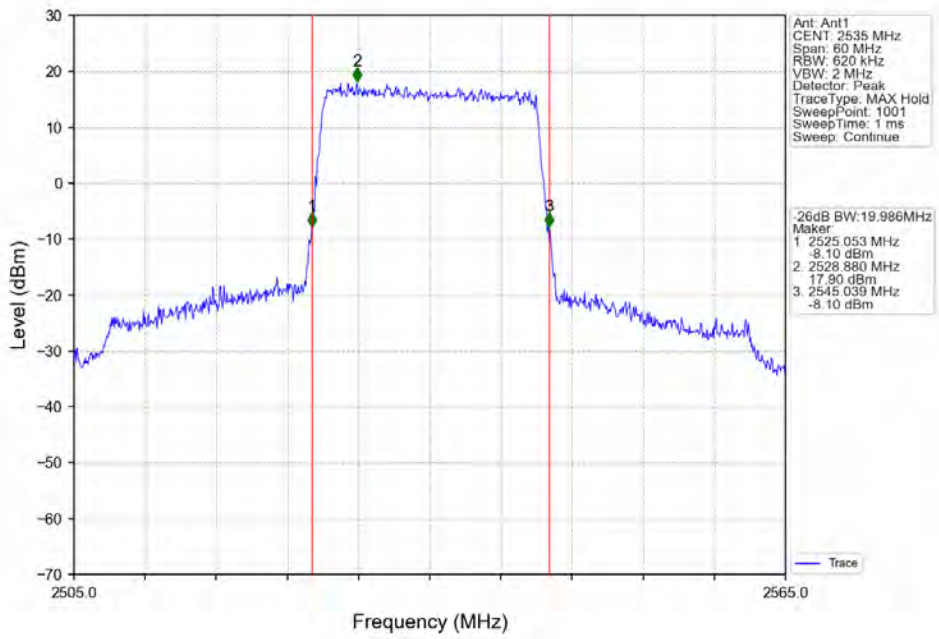

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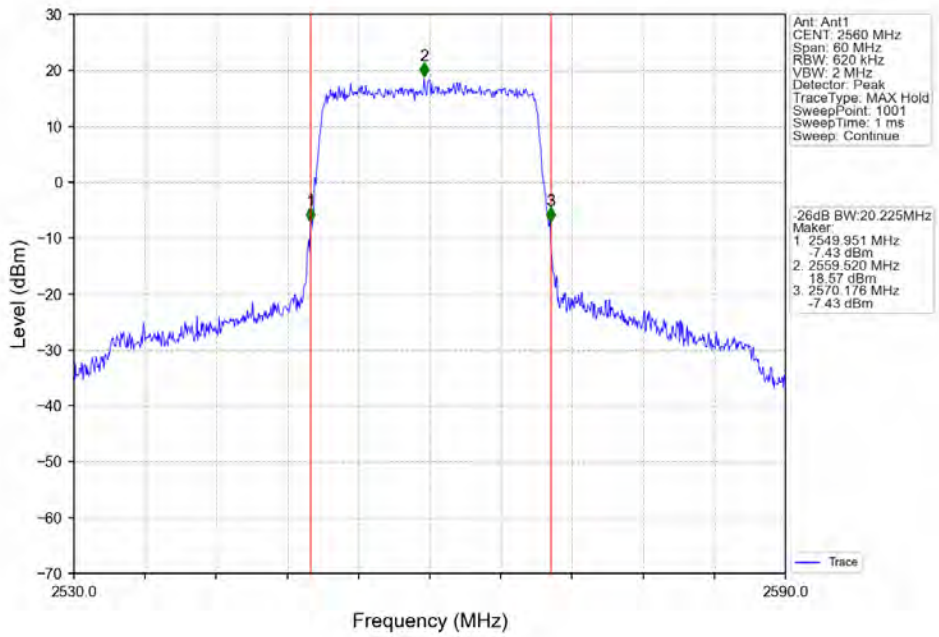
Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV



Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV

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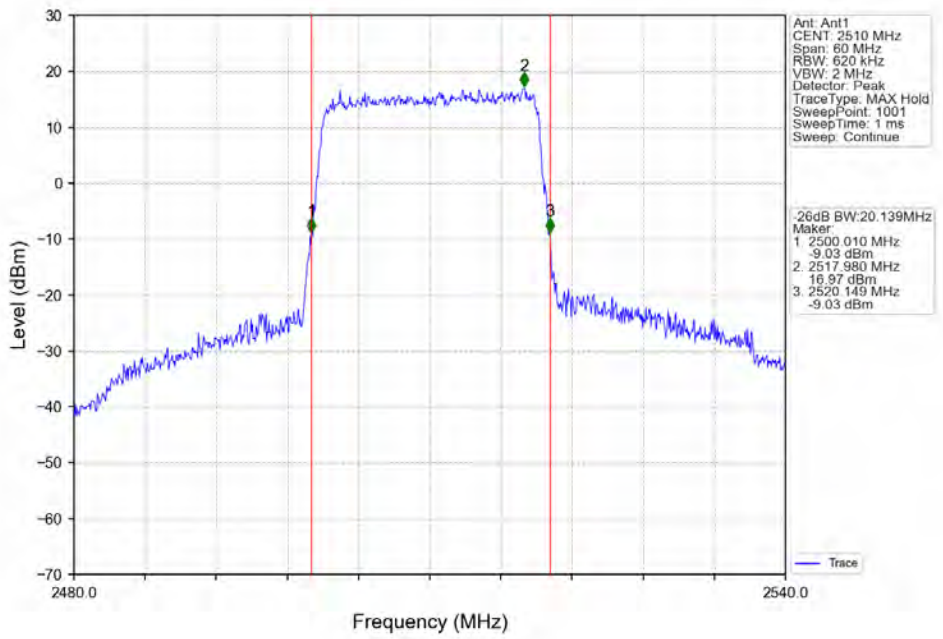

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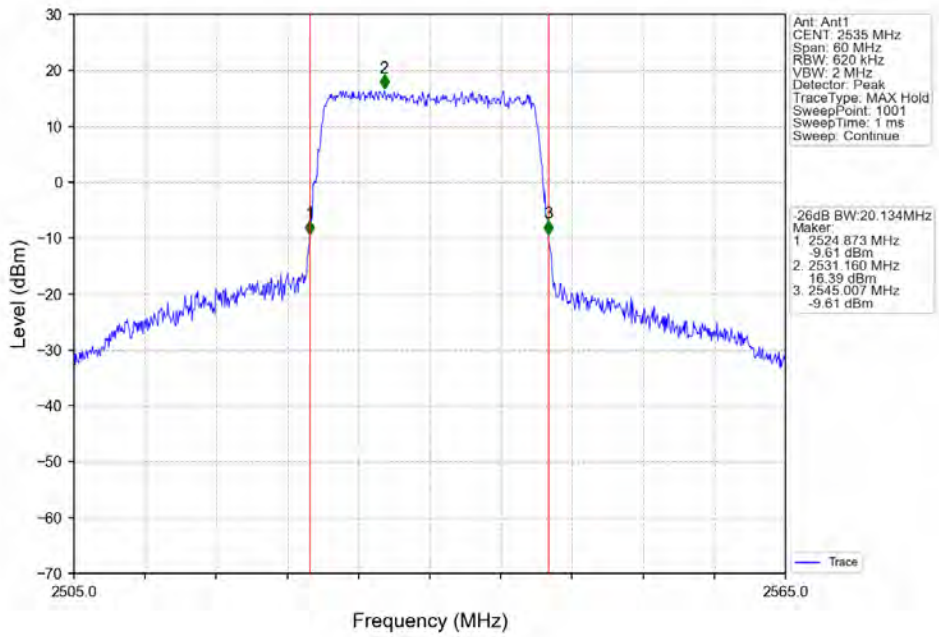
Band7_20MHz_16QAM_MCH_2535MHz_RB_100_0_NTNV



Band7_20MHz_16QAM_HCH_2560MHz_RB_100_0_NTNV

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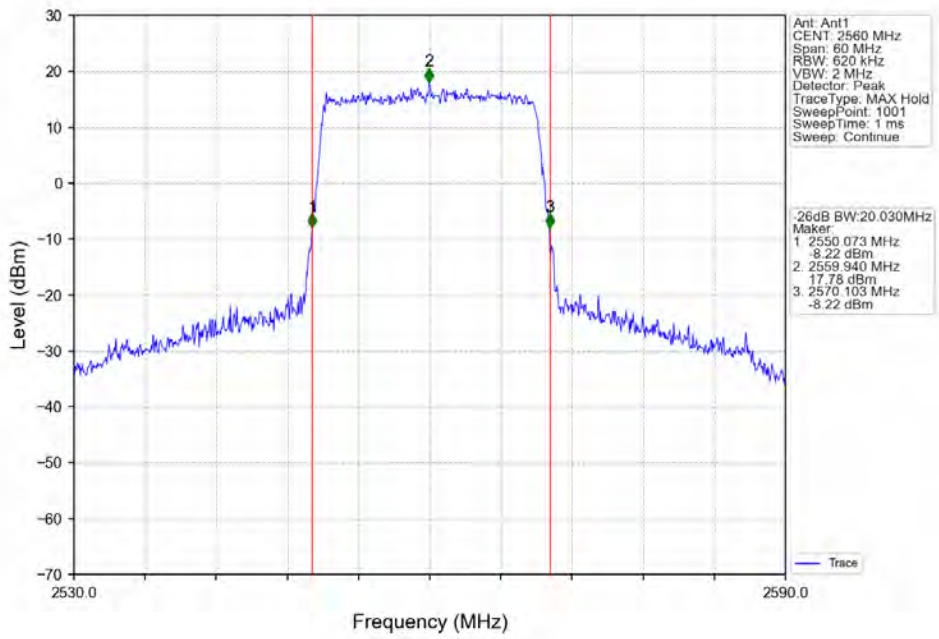

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4. Peak-Average Ratio

4.1 B7_5MHz

4.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.44	<=13	Pass
	2535	25	0	5.21	<=13	Pass
	2567.5	25	0	5.37	<=13	Pass
16QAM	2502.5	25	0	6.14	<=13	Pass
	2535	25	0	5.95	<=13	Pass
	2567.5	25	0	6.06	<=13	Pass

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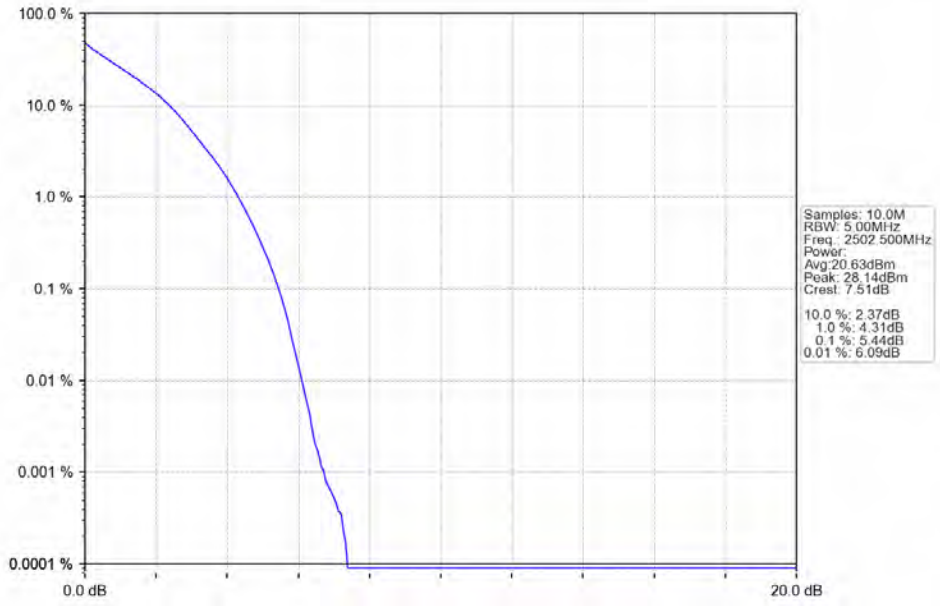
4.1.2 Test Graph

Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



Band7_5MHz_QPSK_MCH_2535MHz_RB_25_0_NTNV

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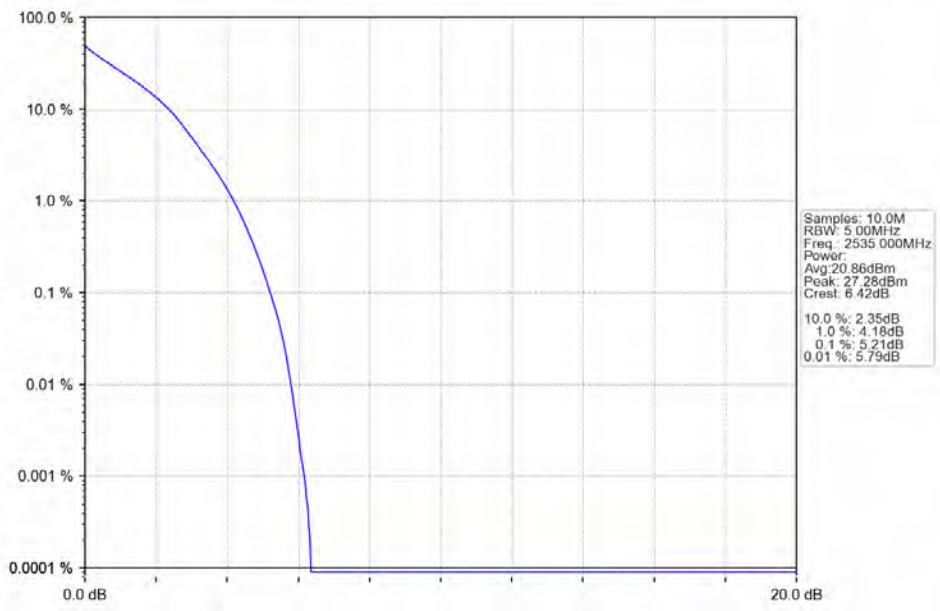

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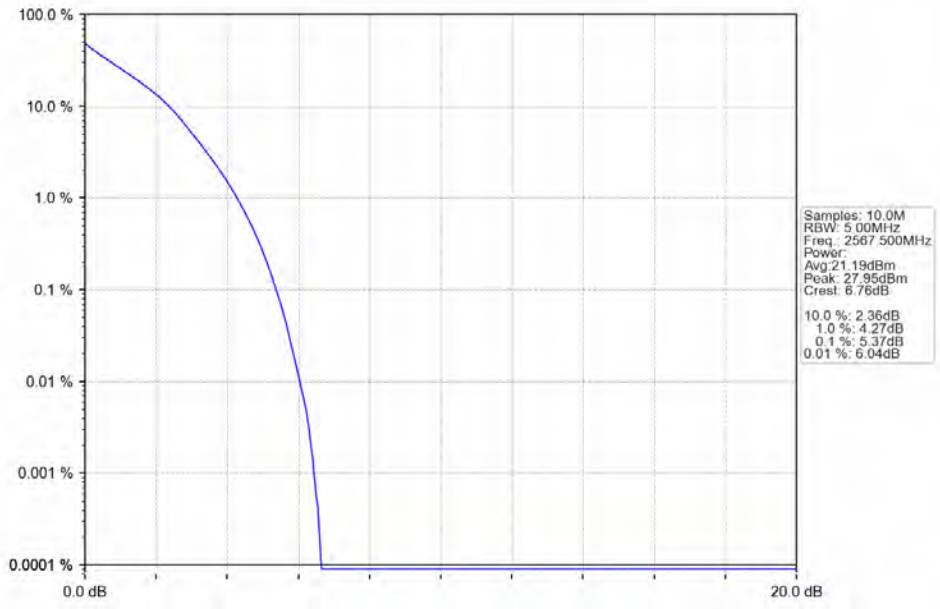
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_25_0_NTNV



Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV

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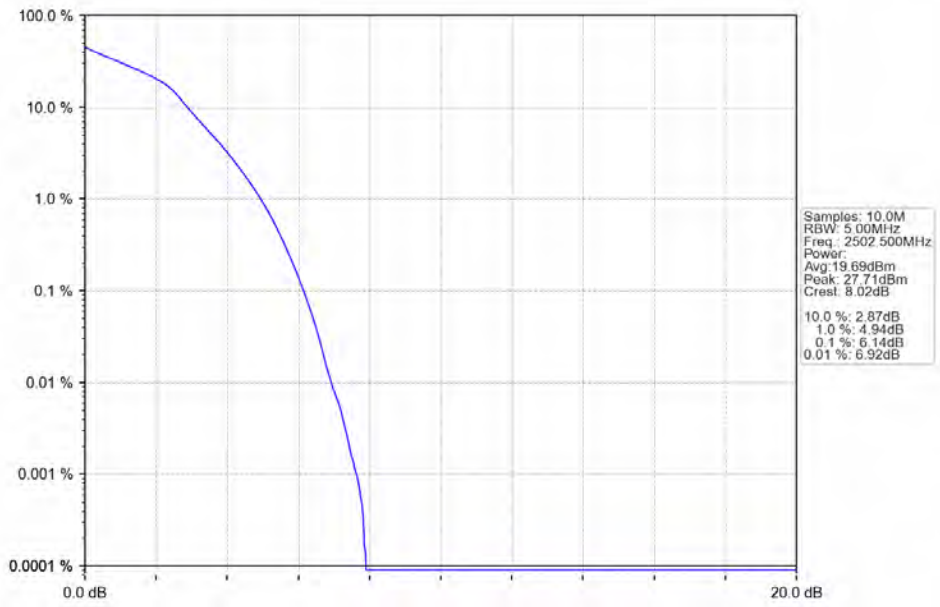

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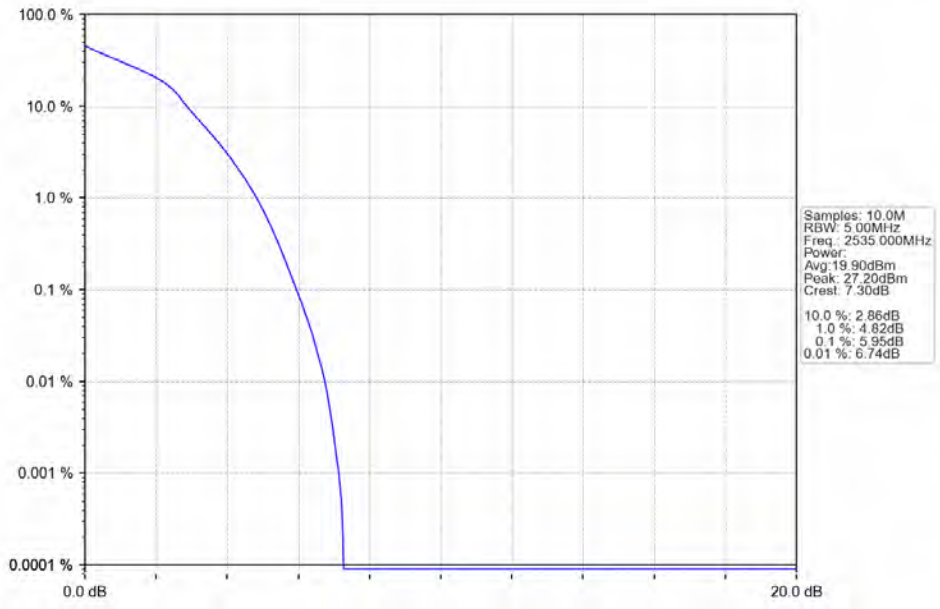

Band7_5MHz_16QAM_HCH_2567.5MHz_RB_25_0_NTNV

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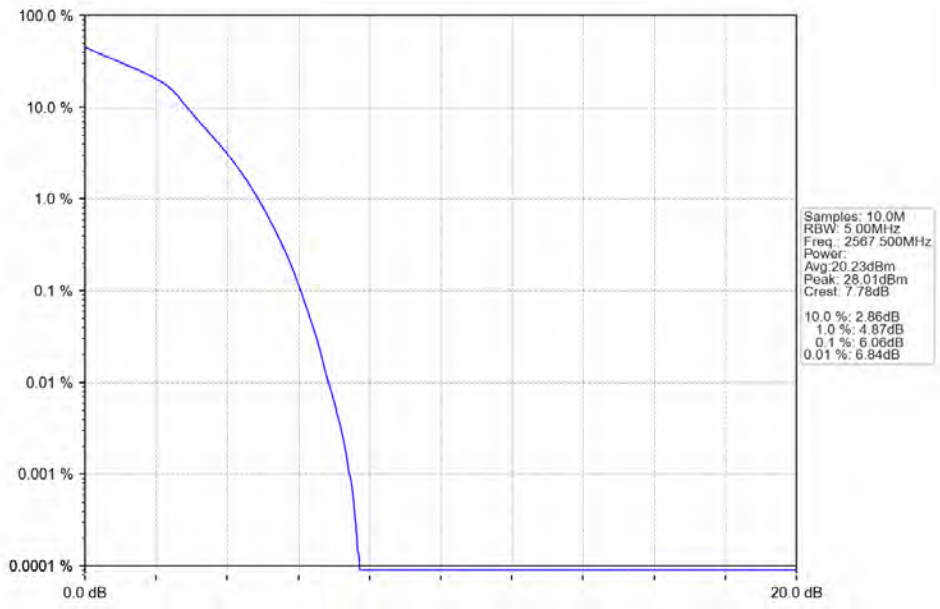

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4.2 B7_10MHz

4.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.50	<=13	Pass
	2535	50	0	5.25	<=13	Pass
	2565	50	0	5.37	<=13	Pass
16QAM	2505	50	0	6.20	<=13	Pass
	2535	50	0	6.01	<=13	Pass
	2565	50	0	6.16	<=13	Pass

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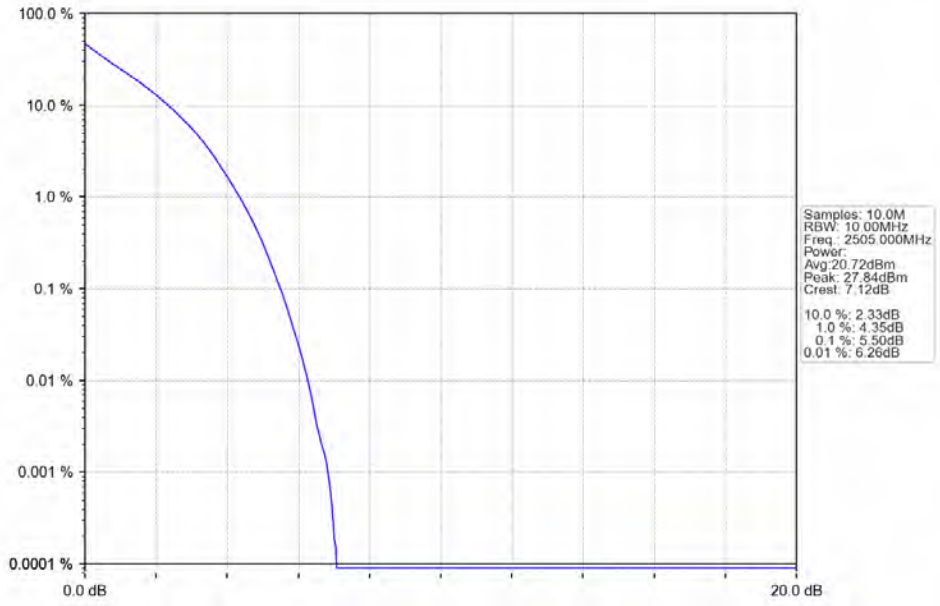
4.2.2 Test Graph

Band7_10MHz_QPSK_LCH_2505MHz_RB_50_0_NTNV



Band7_10MHz_QPSK_MCH_2535MHz_RB_50_0_NTNV

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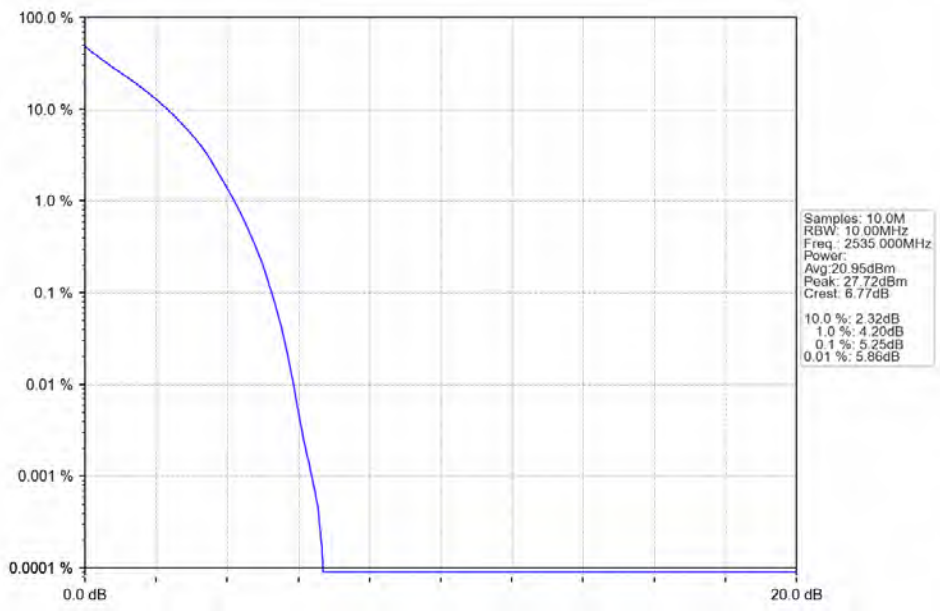

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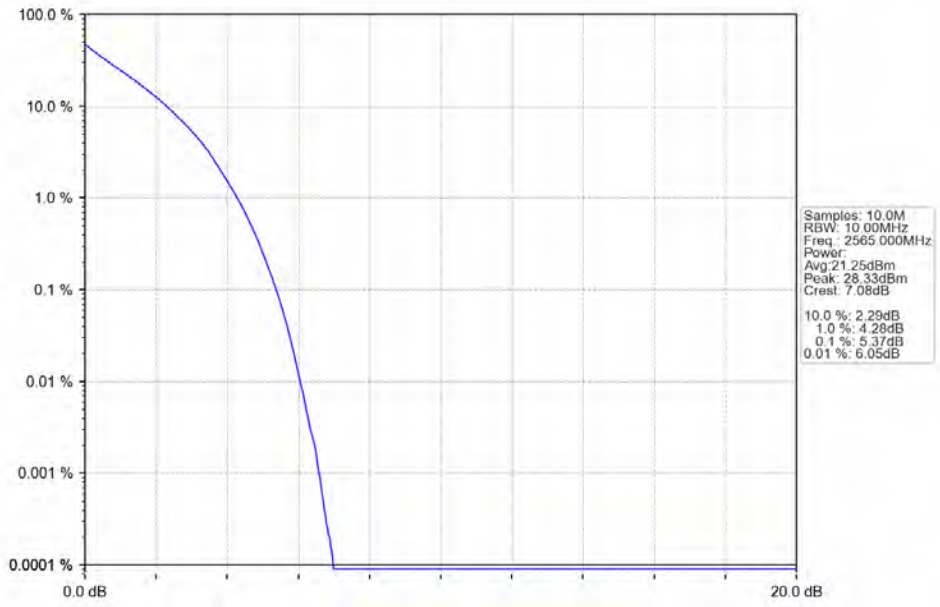
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV

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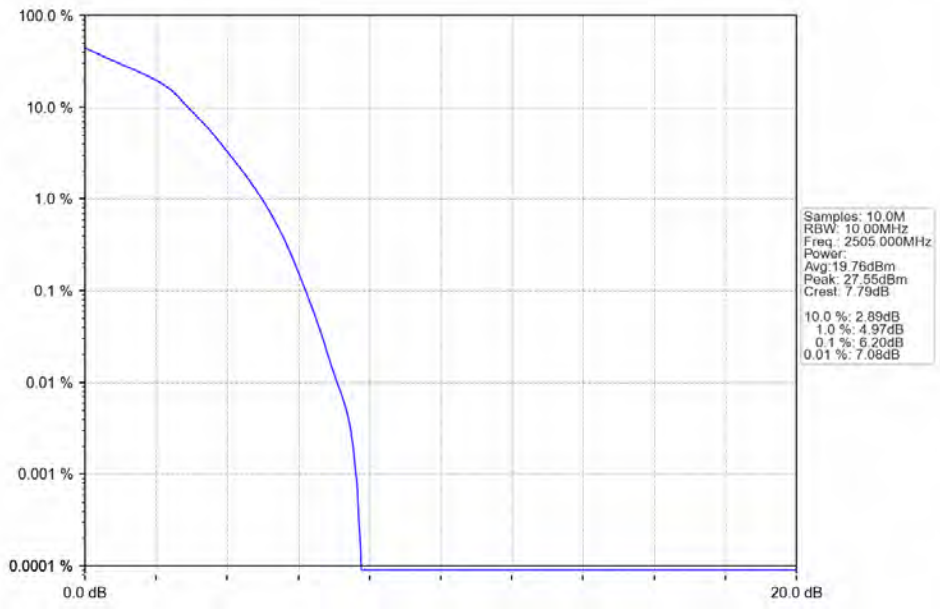

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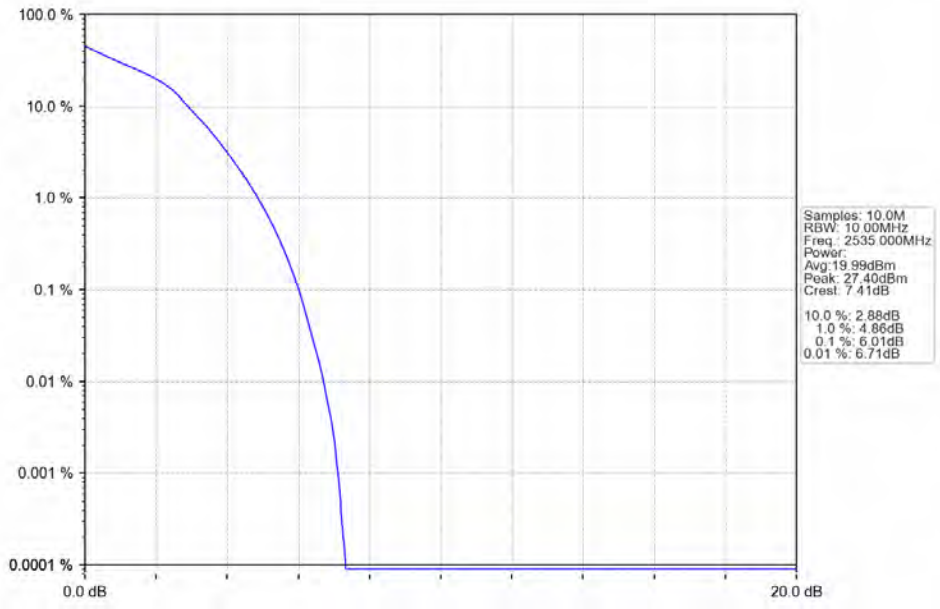
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV

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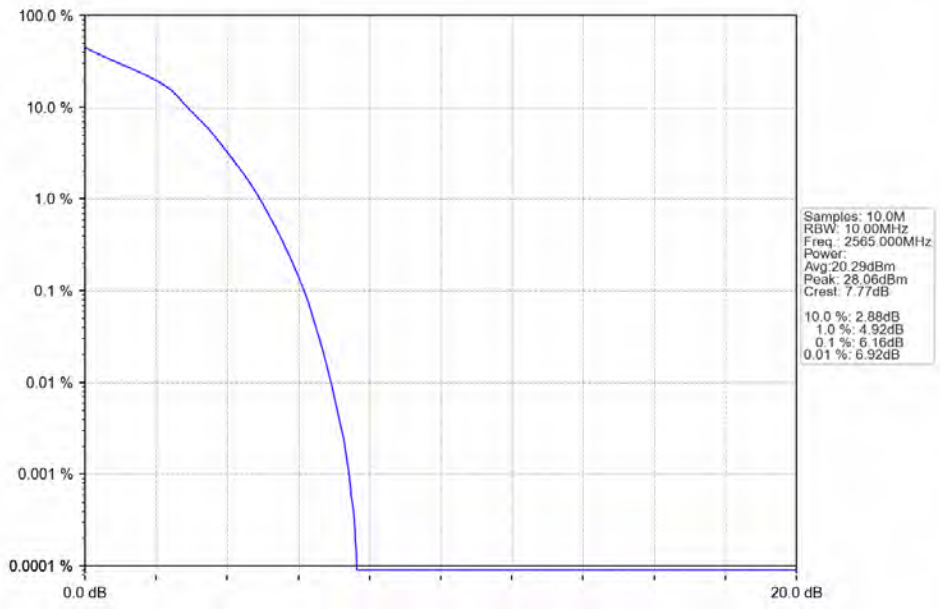

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4.3 B7_15MHz

4.3.1 Test Result

Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.72	<=13	Pass
	2535	75	0	5.33	<=13	Pass
	2562.5	75	0	5.55	<=13	Pass
16QAM	2507.5	75	0	6.28	<=13	Pass
	2535	75	0	5.93	<=13	Pass
	2562.5	75	0	6.13	<=13	Pass

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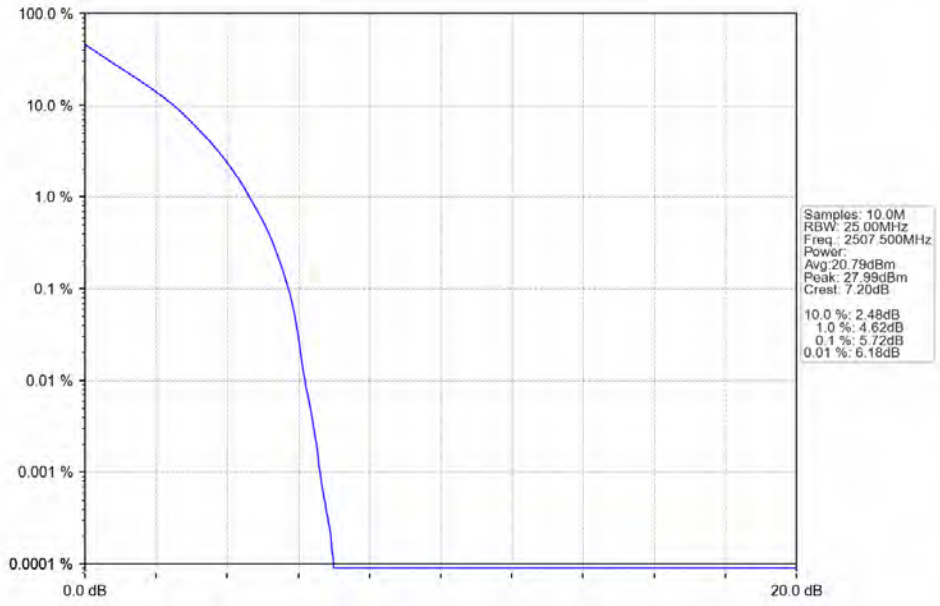
4.3.2 Test Graph

Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV



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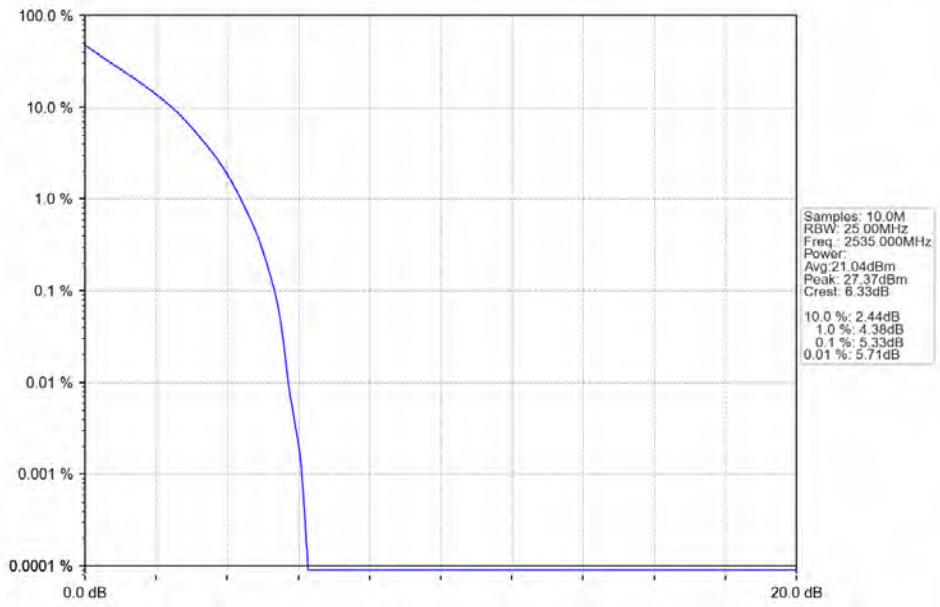

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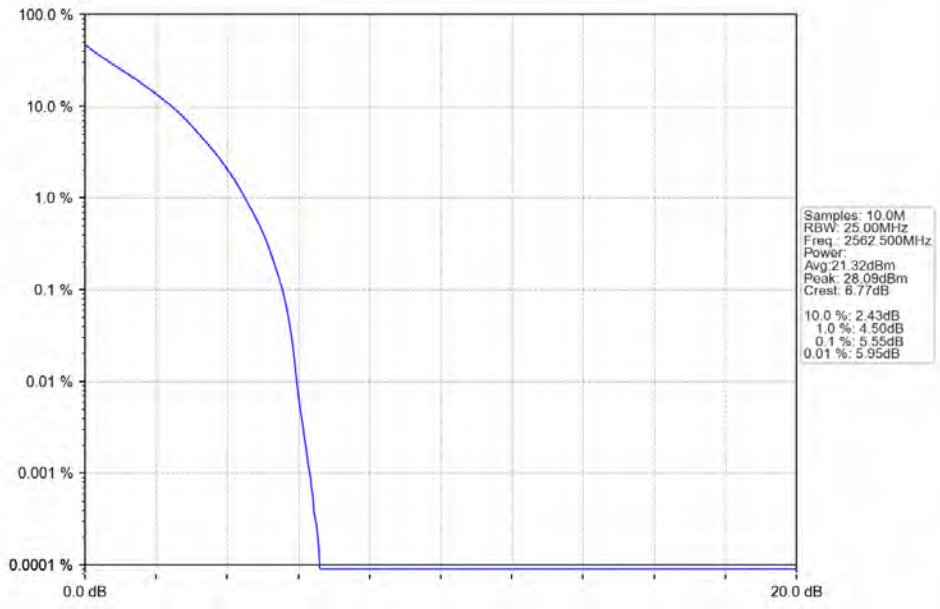
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



Band7_15MHz_16QAM_LCH_2507.5MHz_RB_75_0_NTNV

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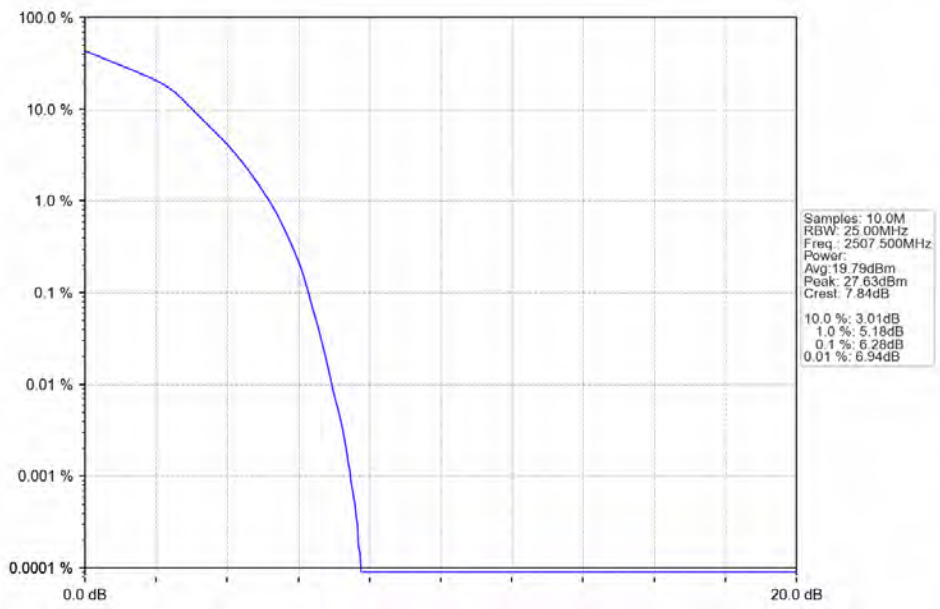

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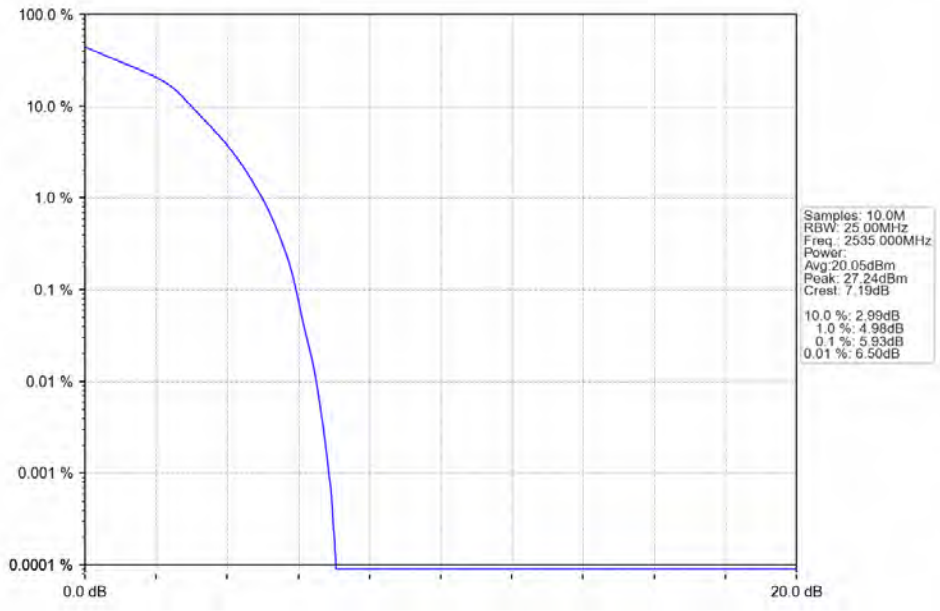
Band7_15MHz_16QAM_MCH_2535MHz_RB_75_0_NTNV



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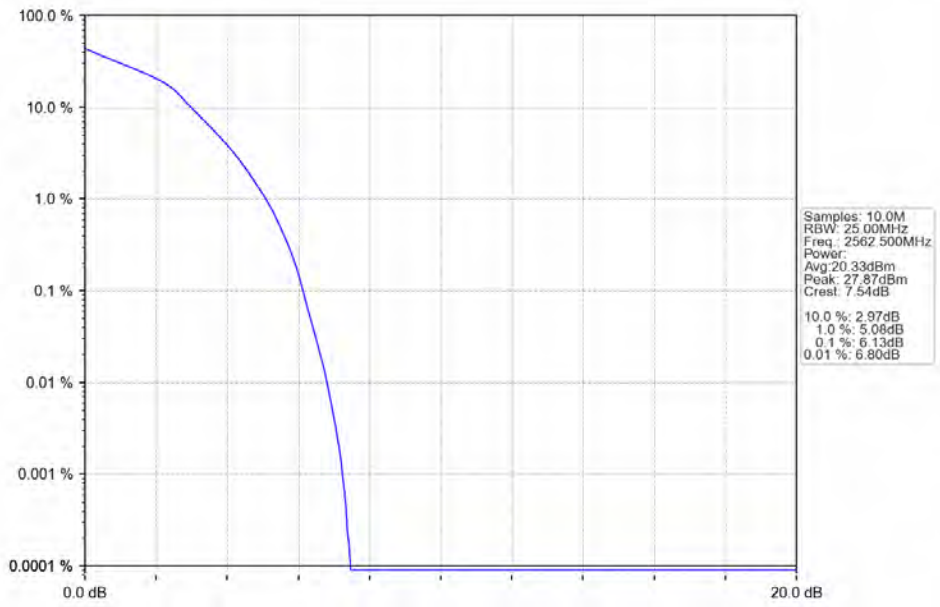

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4.4 B7_20MHz

4.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.46	<=13	Pass
	2535	100	0	5.25	<=13	Pass
	2560	100	0	5.38	<=13	Pass
16QAM	2510	100	0	6.25	<=13	Pass
	2535	100	0	6.01	<=13	Pass
	2560	100	0	6.14	<=13	Pass

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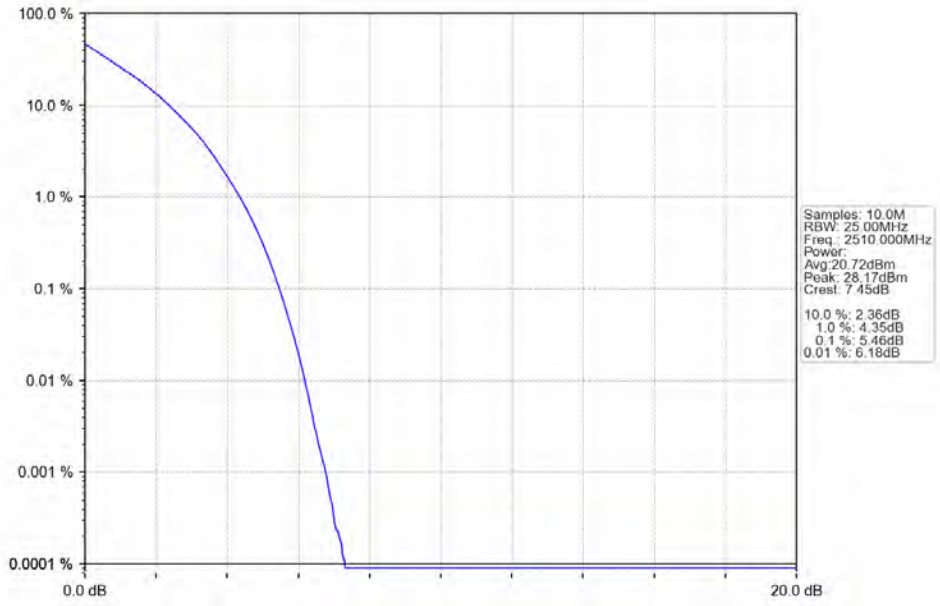
4.4.2 Test Graph

Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



Band7_20MHz_QPSK_MCH_2535MHz_RB_100_0_NTNV

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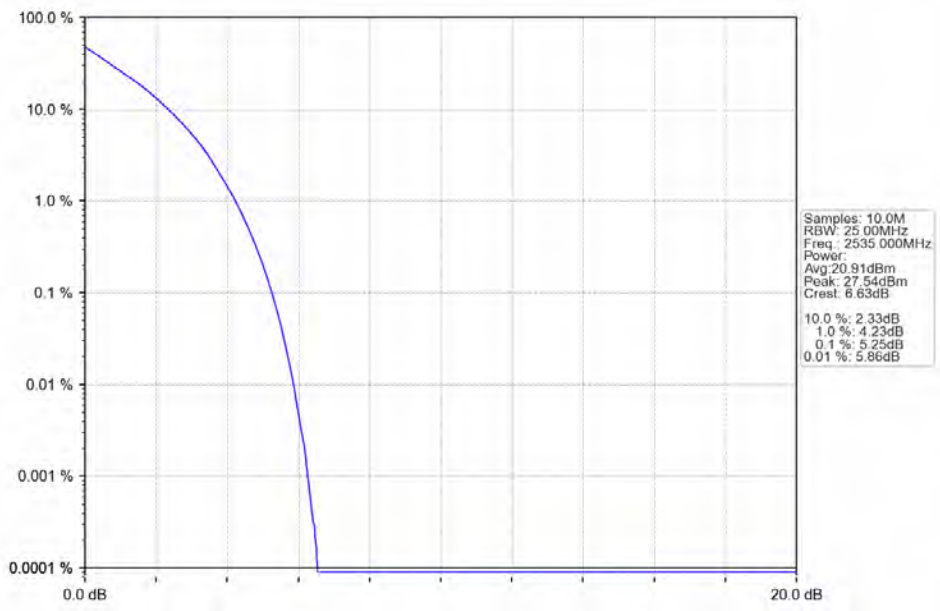

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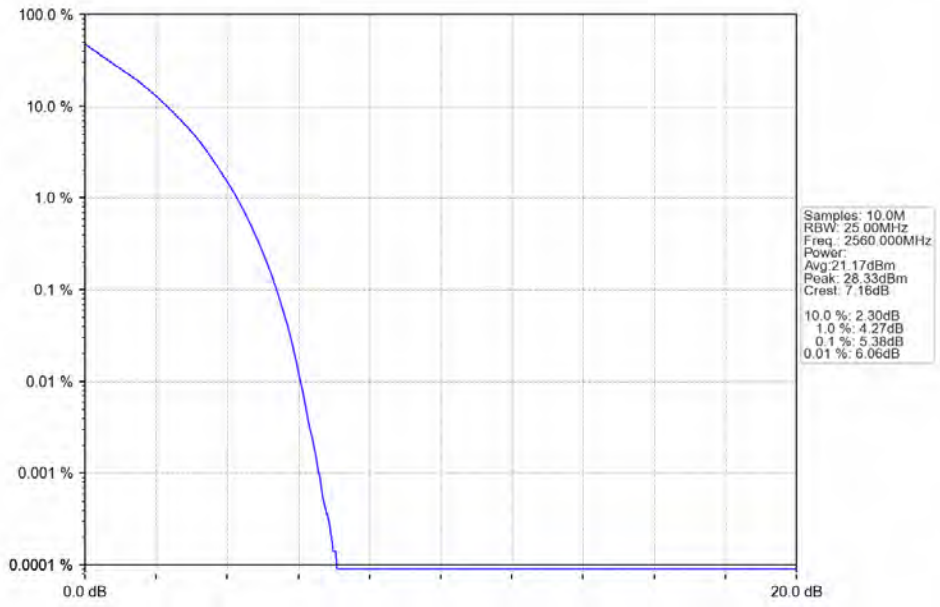

Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV

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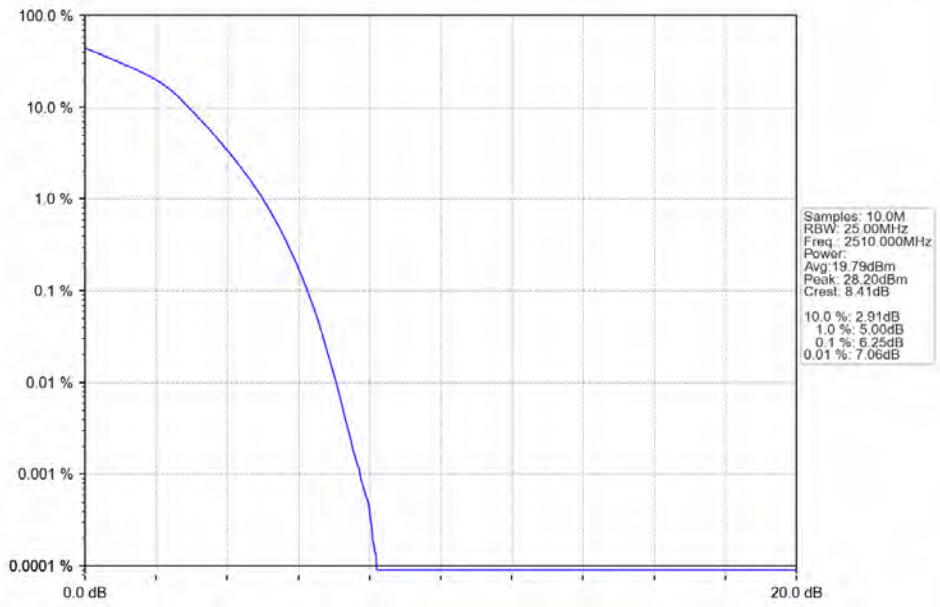

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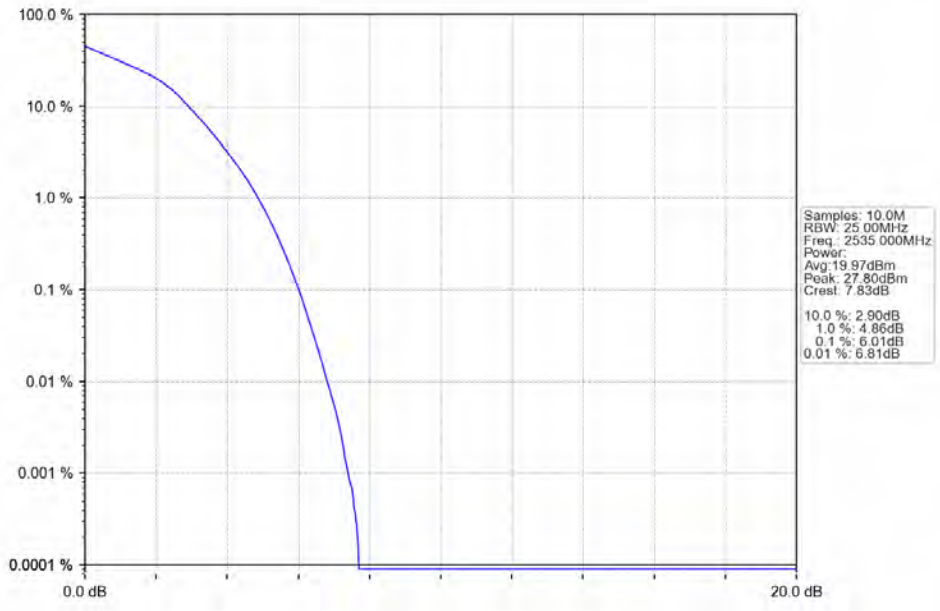

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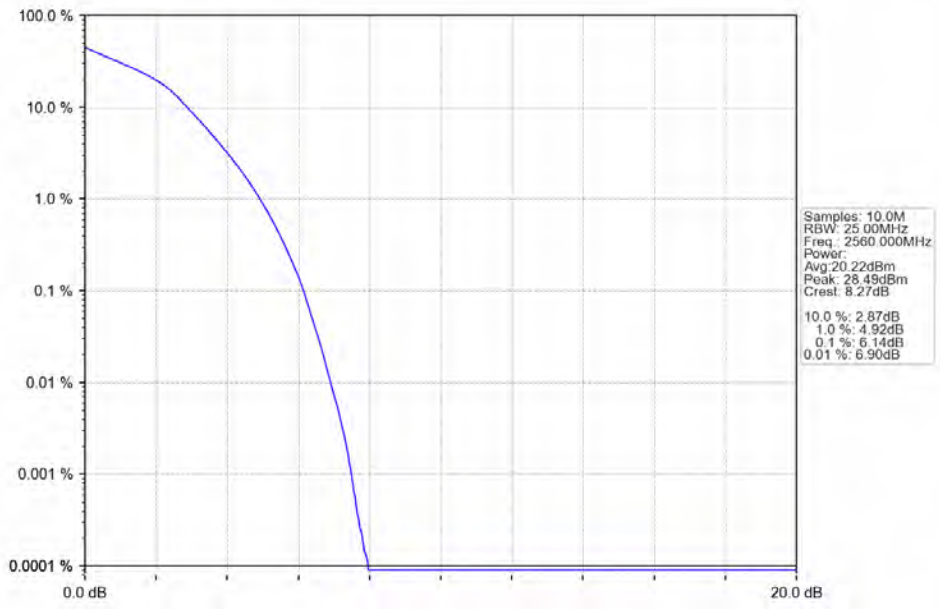

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5. Spurious Emission & Band Edges

5.1 B7_5MHz

5.1.1 Test Result

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

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5.1.2 Test Graph

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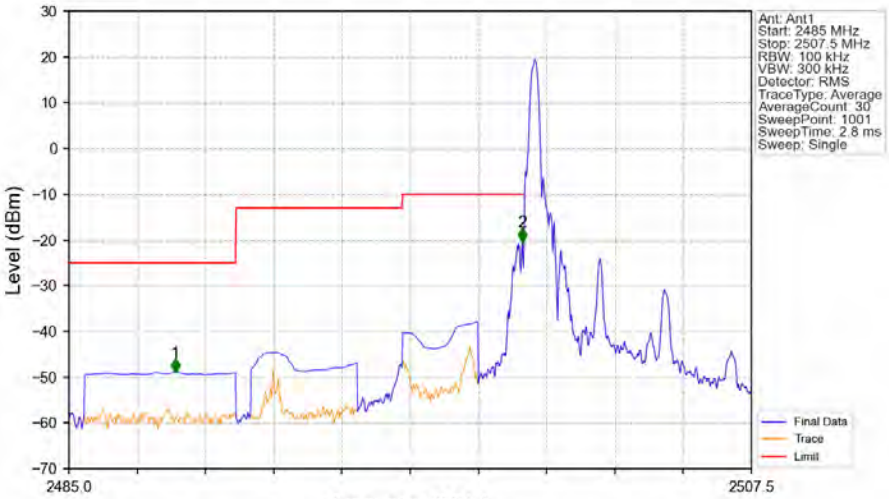

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2488.510	-48.97	-25	Pass
2499	2500	0.1	/	2	2499.940	-20.46	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/

Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV

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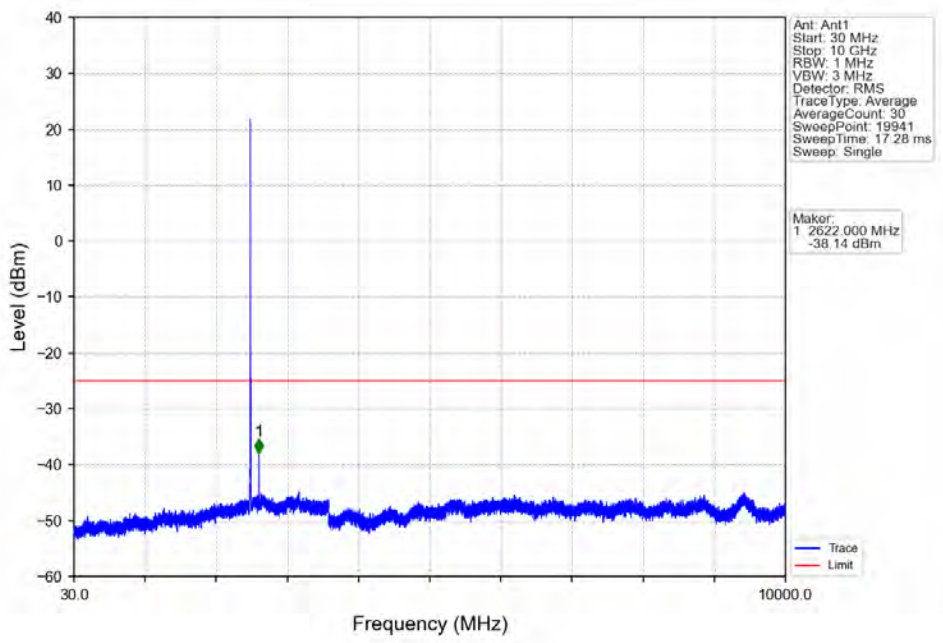

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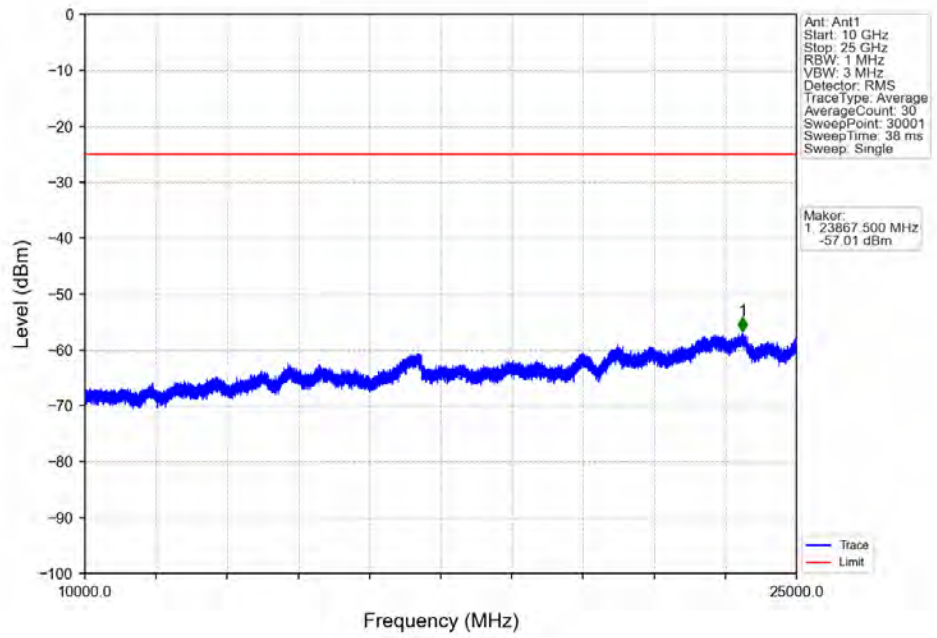
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV



Band7_5MHz_QPSK_LCH_2502.5MHz_RB_1_0_NTNV

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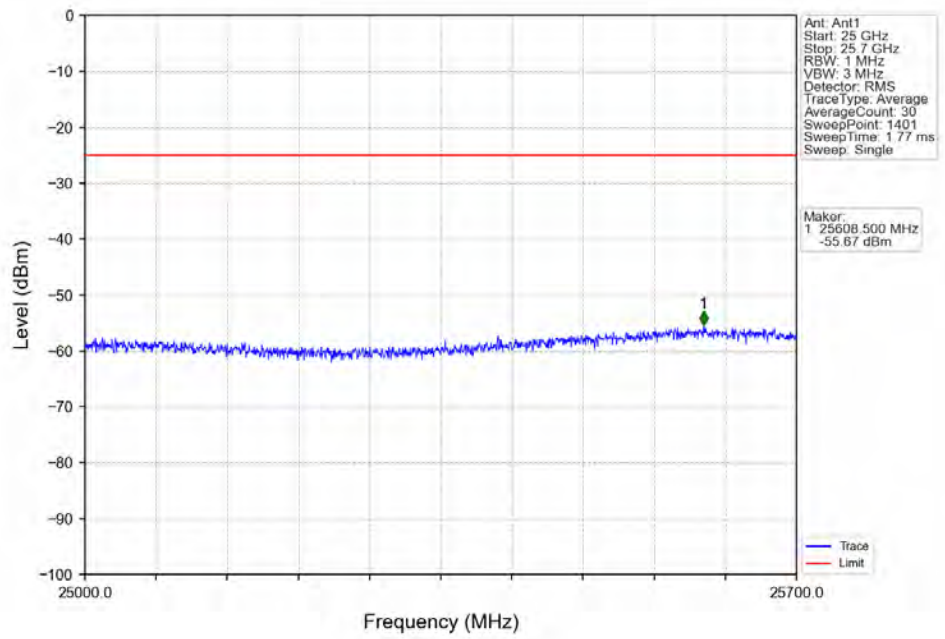

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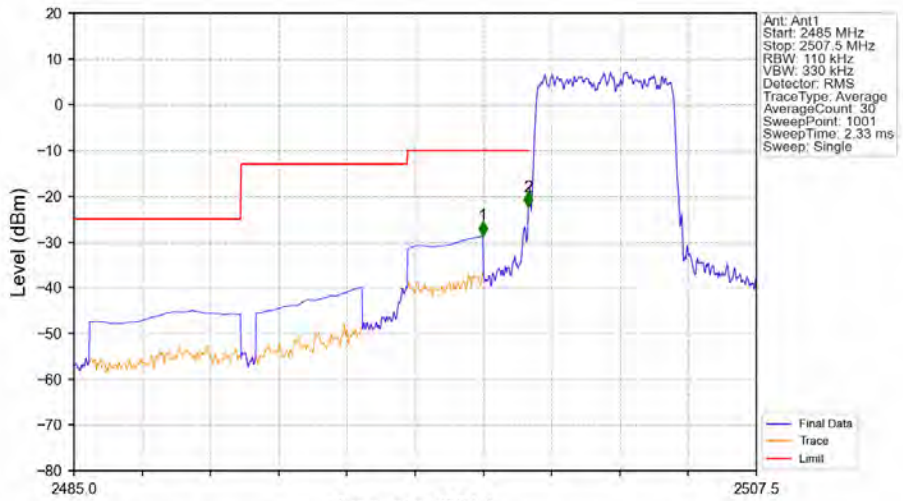
Band7_5MHz_QPSK_LCH_2502.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2498.477	-28.60	-10	Pass
2499	2500	0.11	/	2	2499.985	-22.27	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/

Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV

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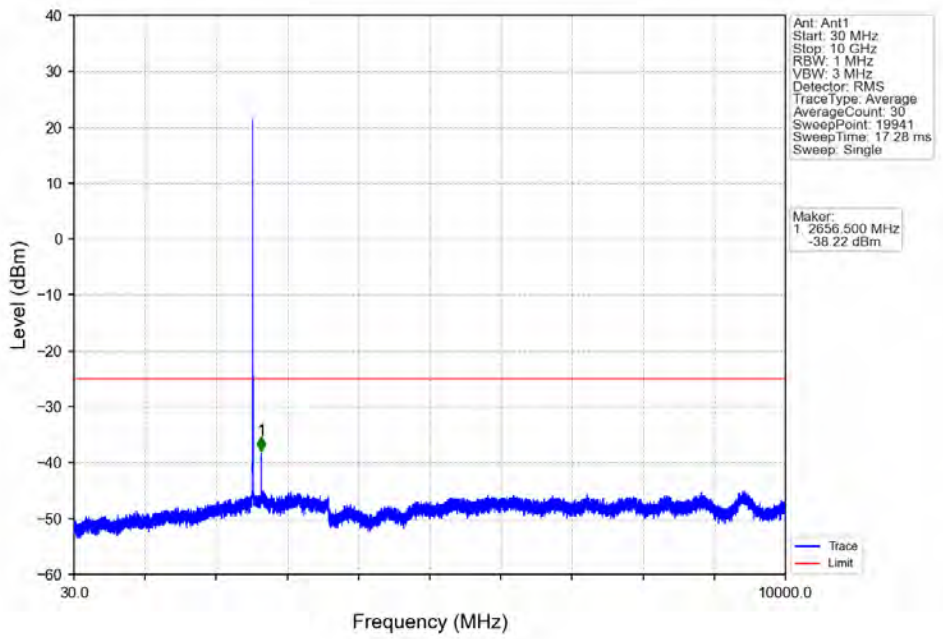

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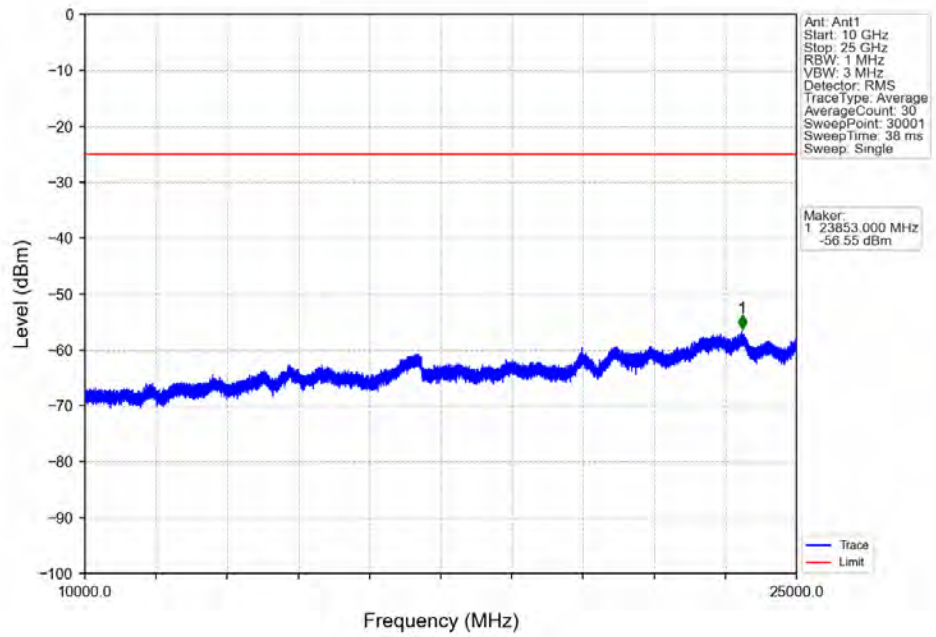

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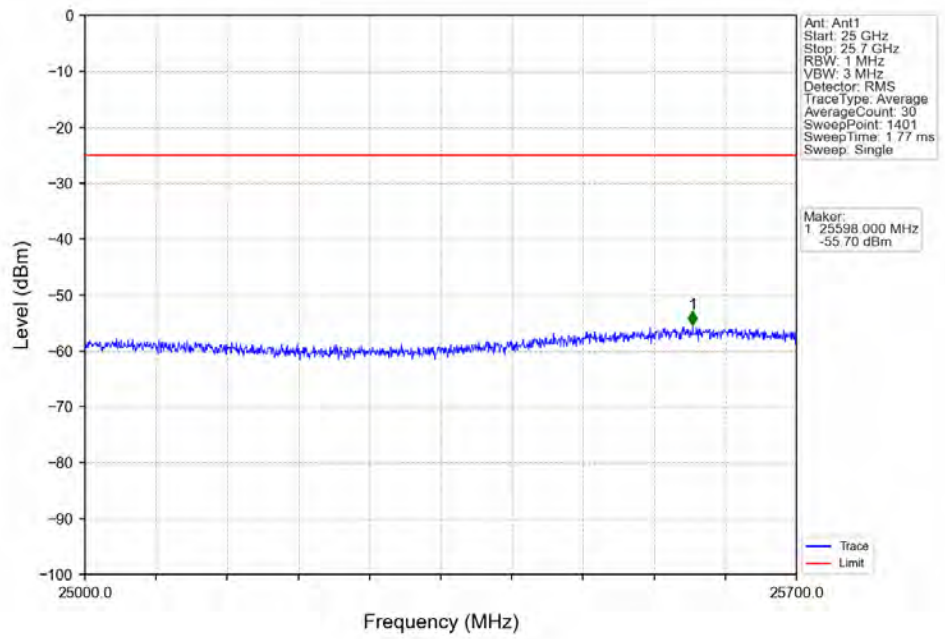

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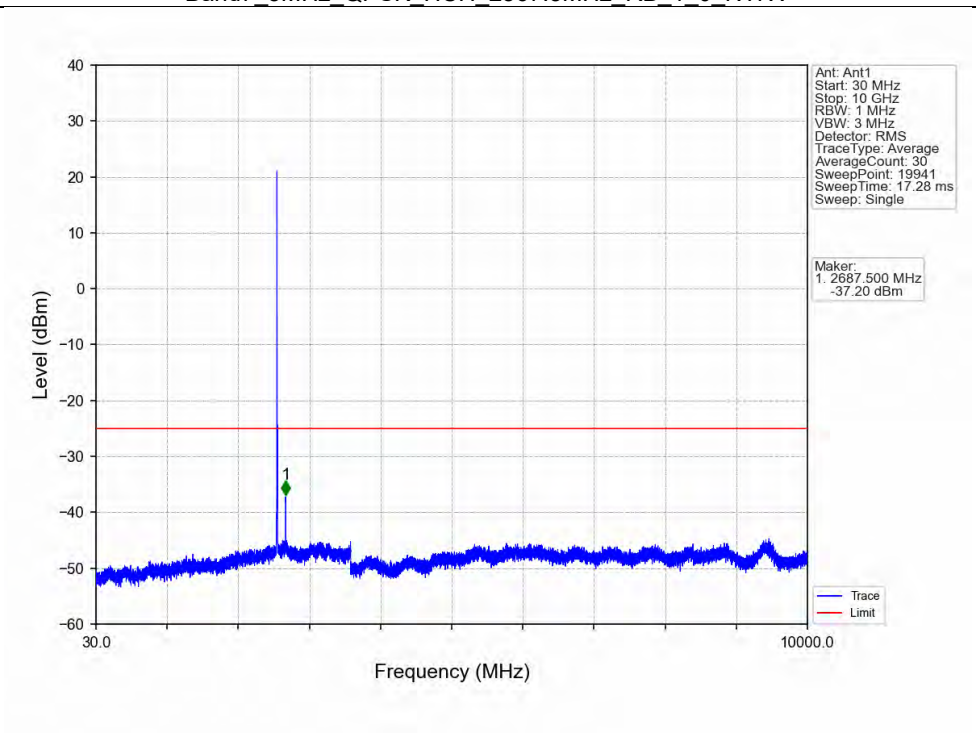
Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_0_NTNV



Band7_5MHz_QPSK_HCH_2567.5MHz_RB_1_0_NTNV

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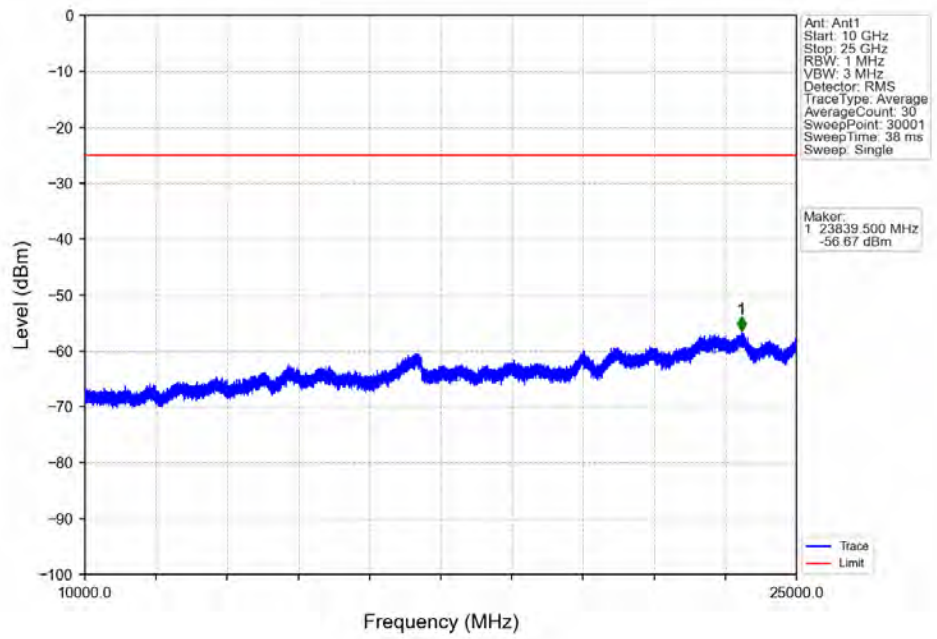

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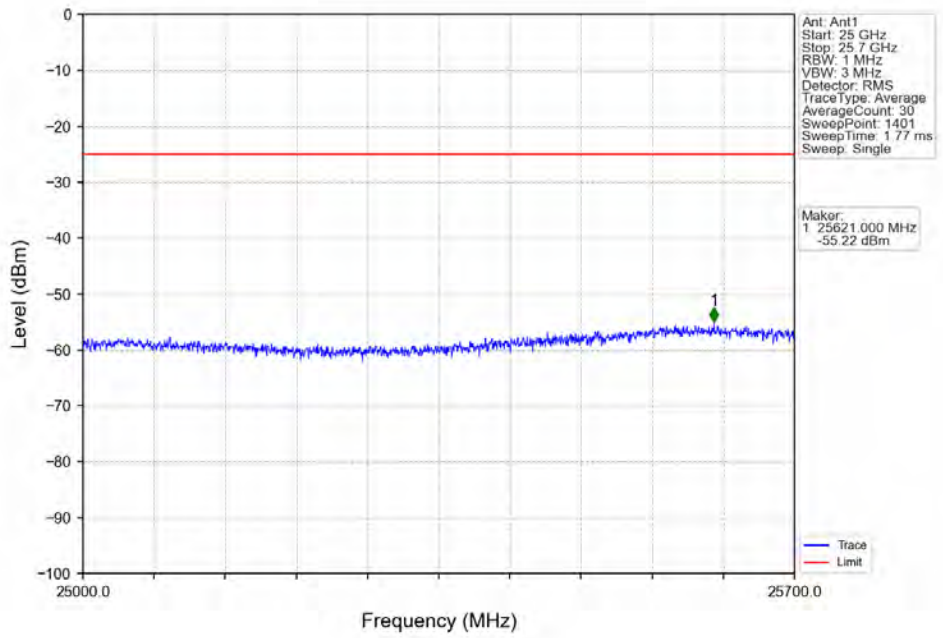

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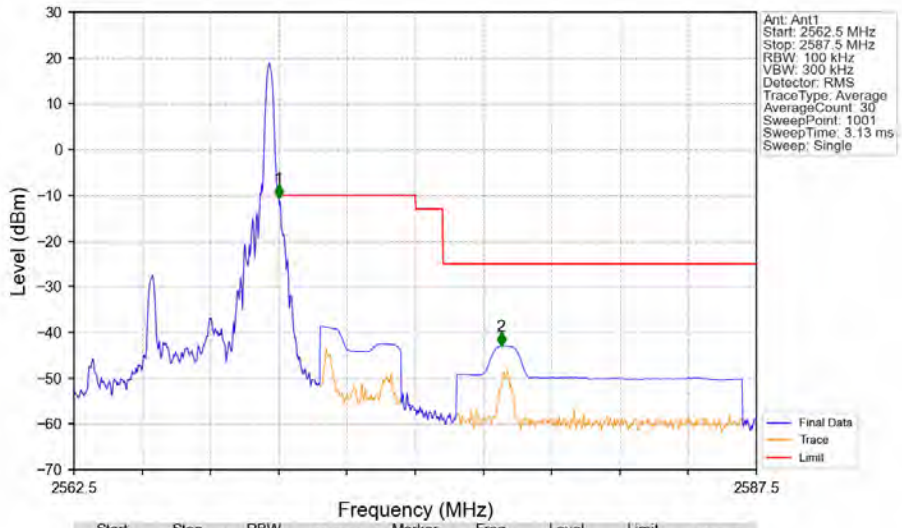

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.000	-10.70	-10	Pass
2571	2587.5	1	CHP	2	2578.150	-42.99	-25	Pass

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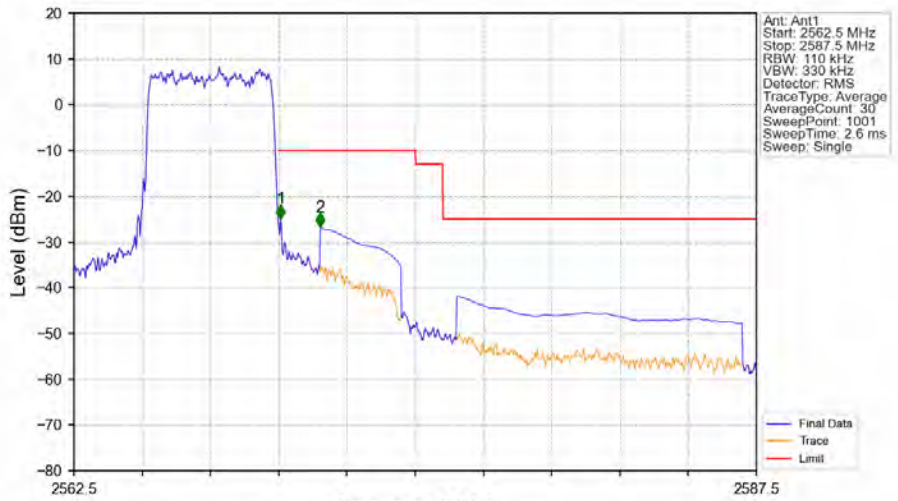

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.11	/	/	/	/	/	/
2570	2571	0.11	/	1	2570.075	-24.91	-10	Pass
2571	2587.5	1	CHP	2	2571.525	-26.69	-10	Pass

Band7_5MHz_16QAM_LCH_2502.5MHz_RB_1_0_NTNV

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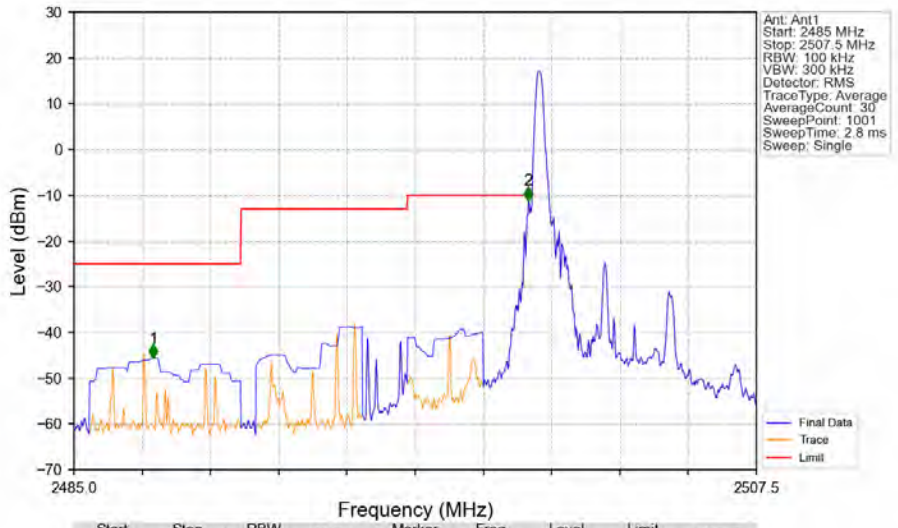

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2487.610	-45.61	-25	Pass
2499	2500	0.1	/	2	2499.985	-11.19	-10	Pass
2500	2507.5	0.1	/	/	/	/	/	/

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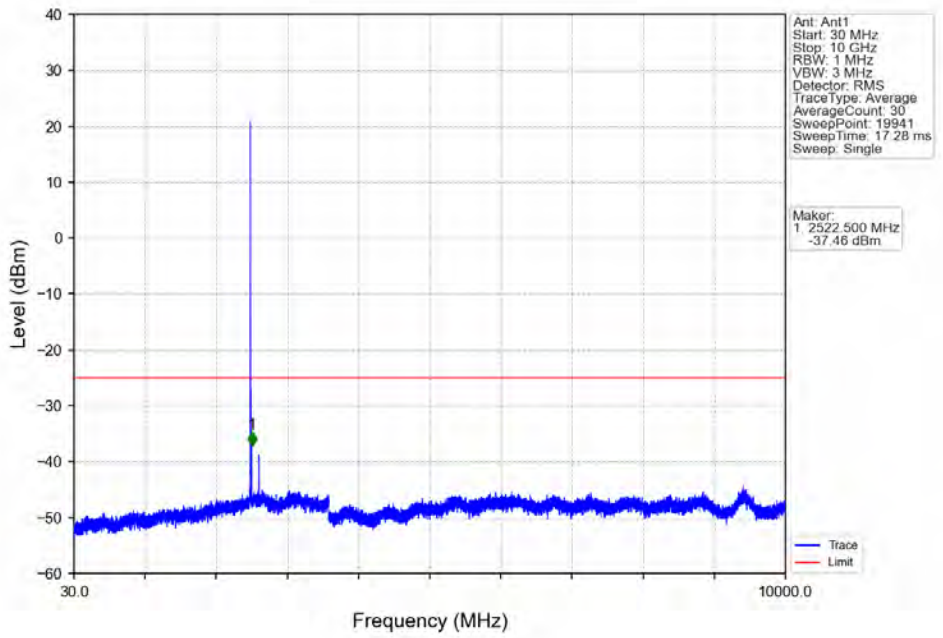
Band7_5MHz_16QAM_LCH_2502.5MHz_RB_1_0_NTNV



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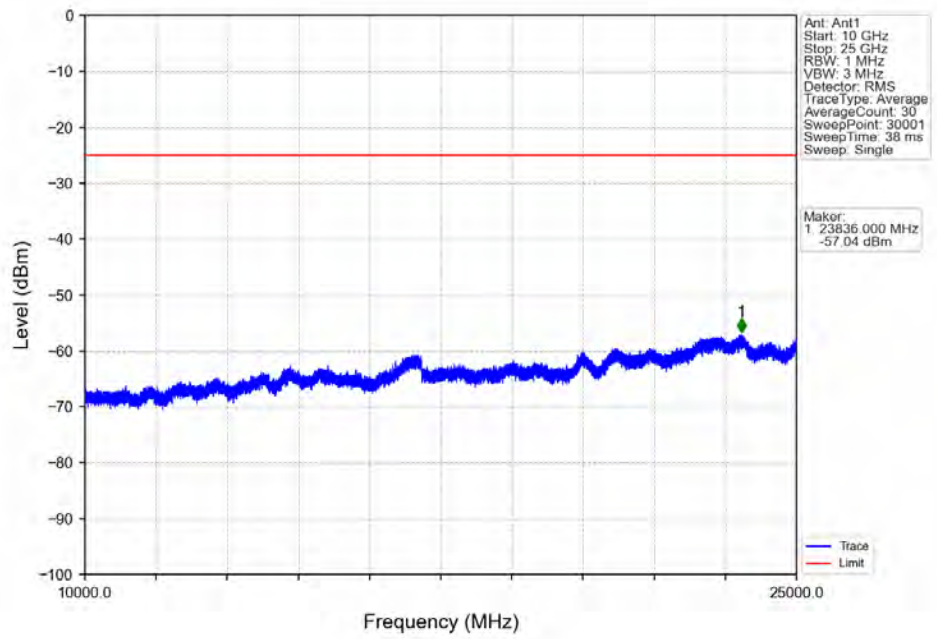

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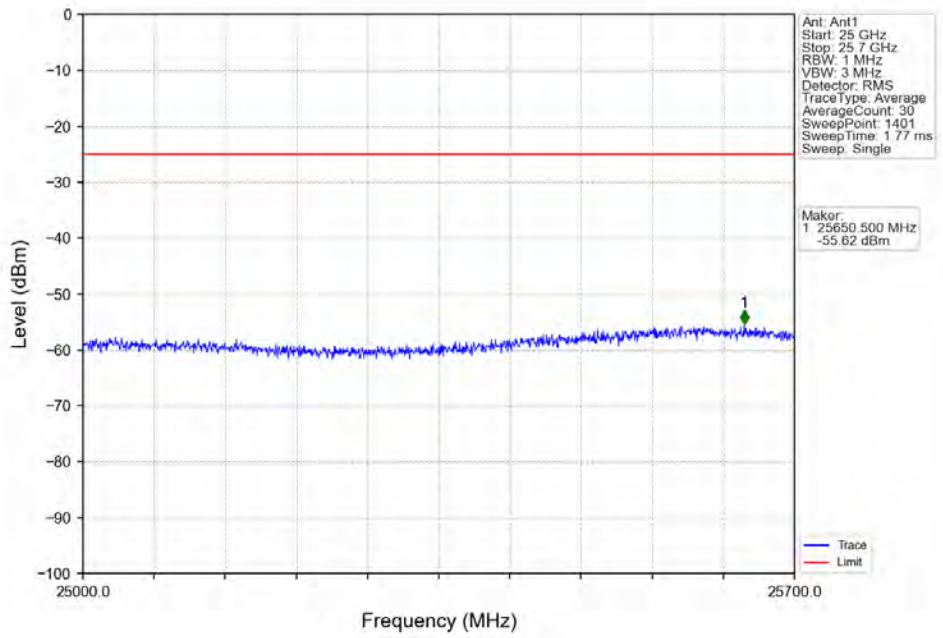

Band7_5MHz_16QAM_LCH_2502.5MHz_RB_25_0_NTNV

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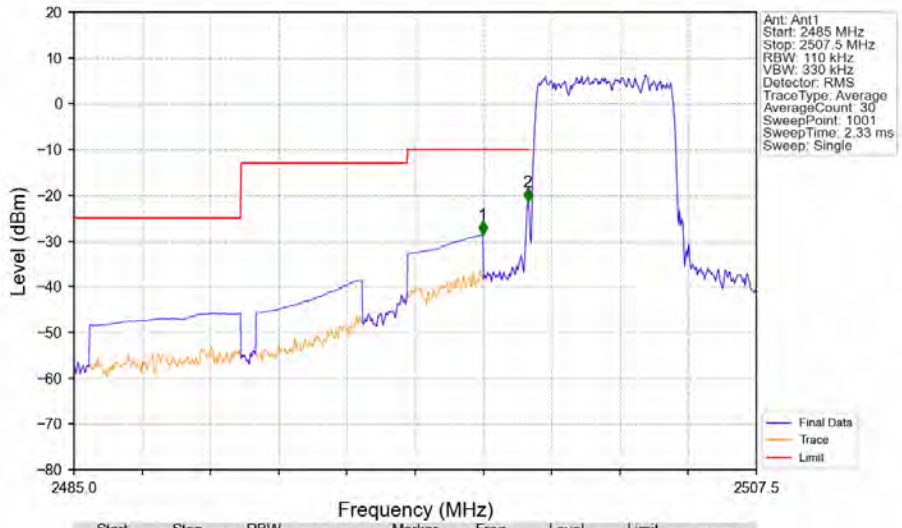

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2498.477	-28.66	-10	Pass
2499	2500	0.11	/	2	2499.963	-21.39	-10	Pass
2500	2507.5	0.11	/	/	/	/	/	/

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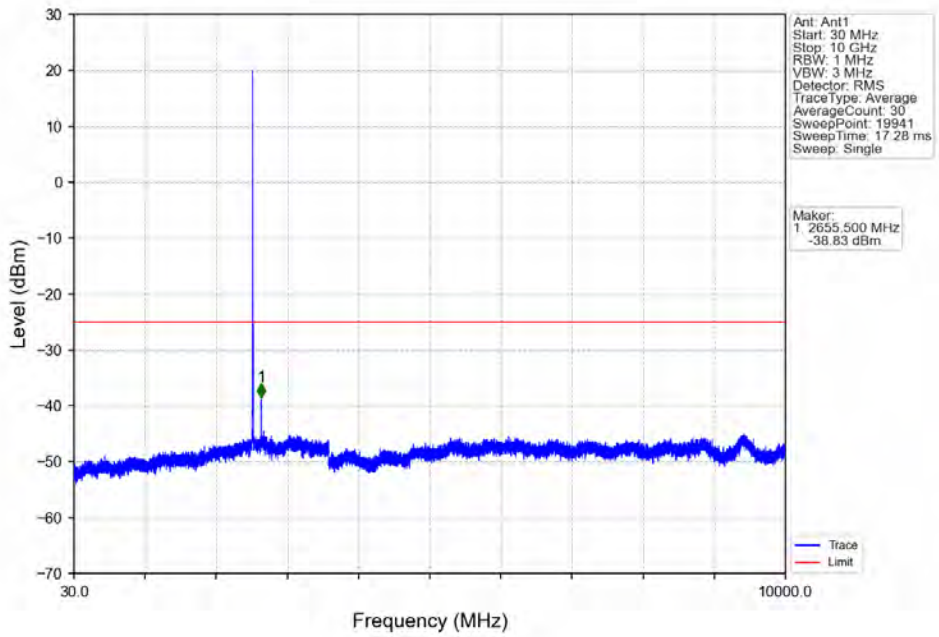

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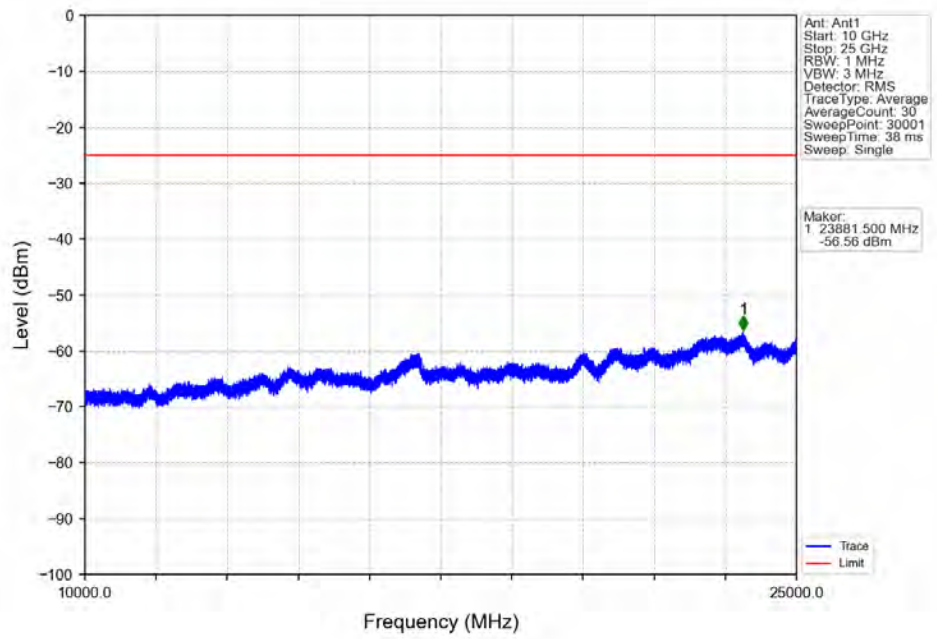

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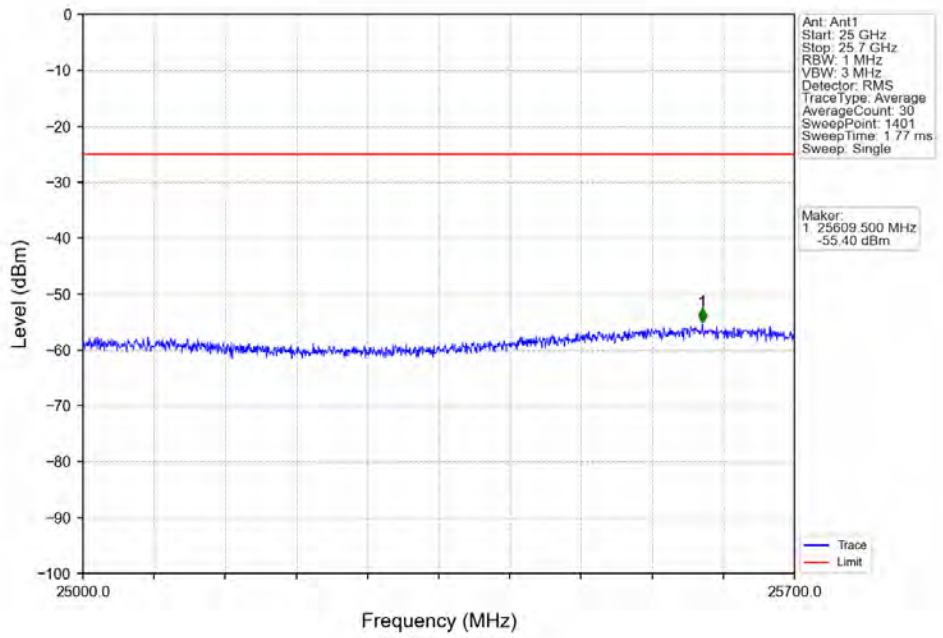

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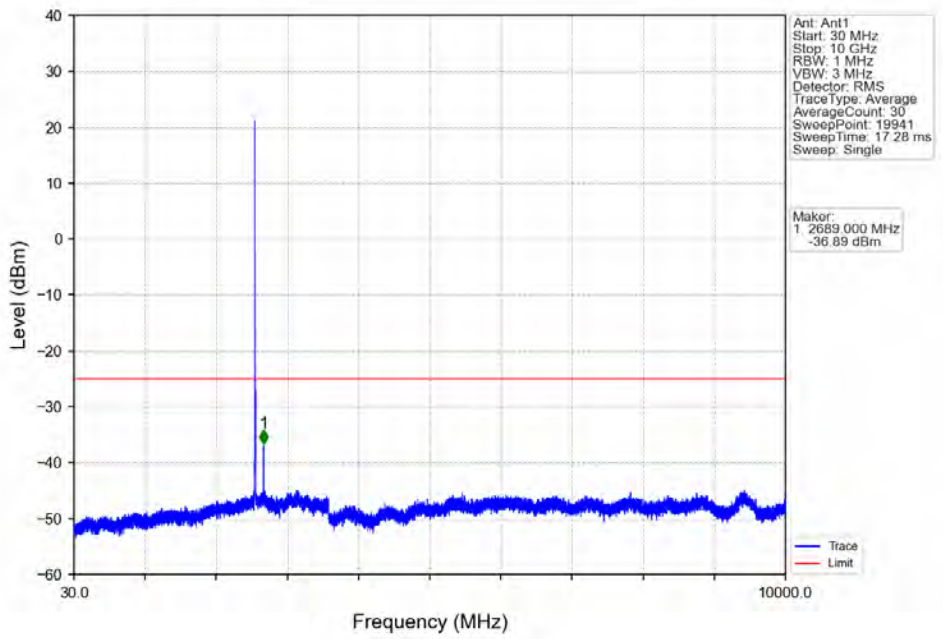

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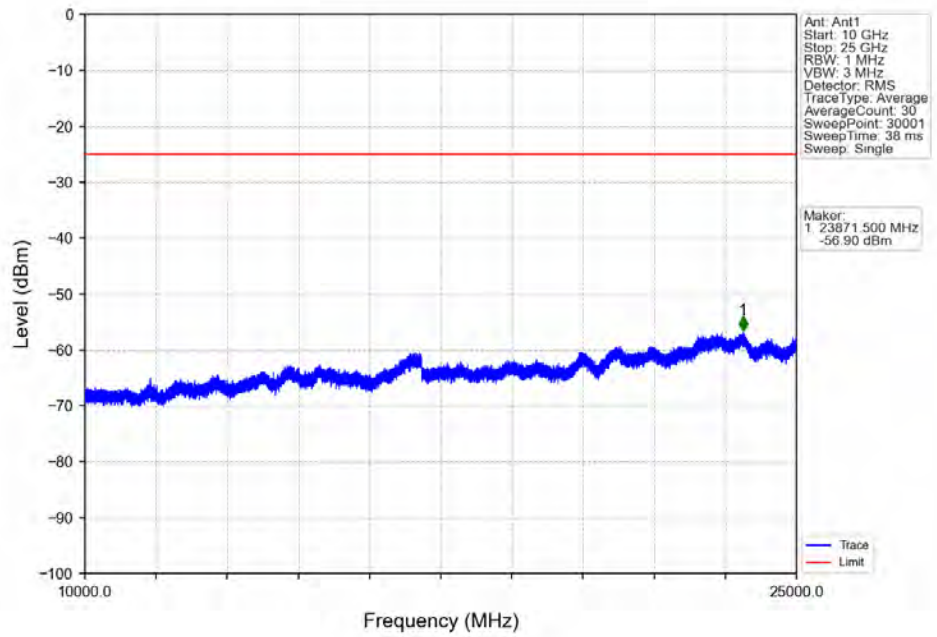

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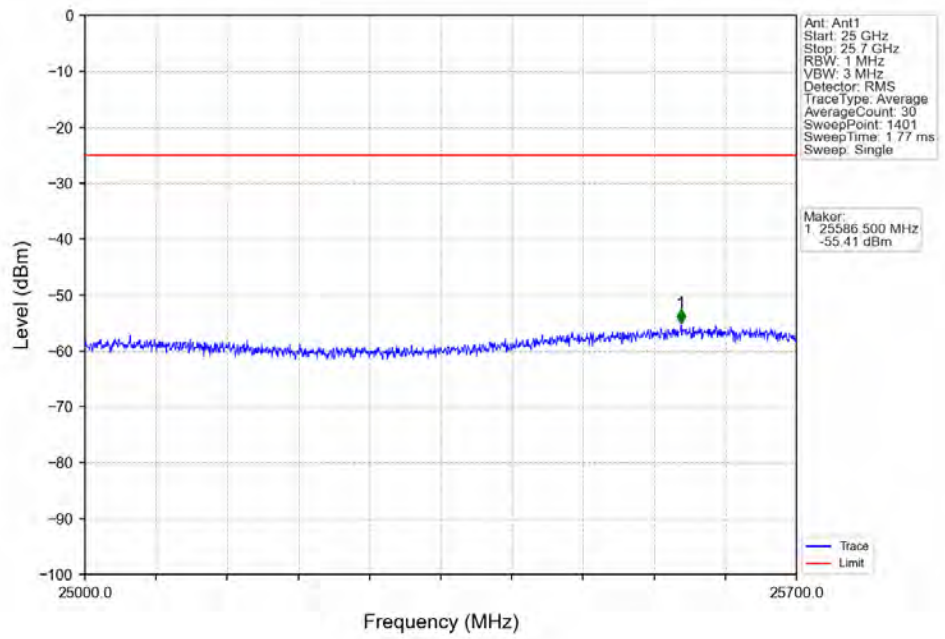

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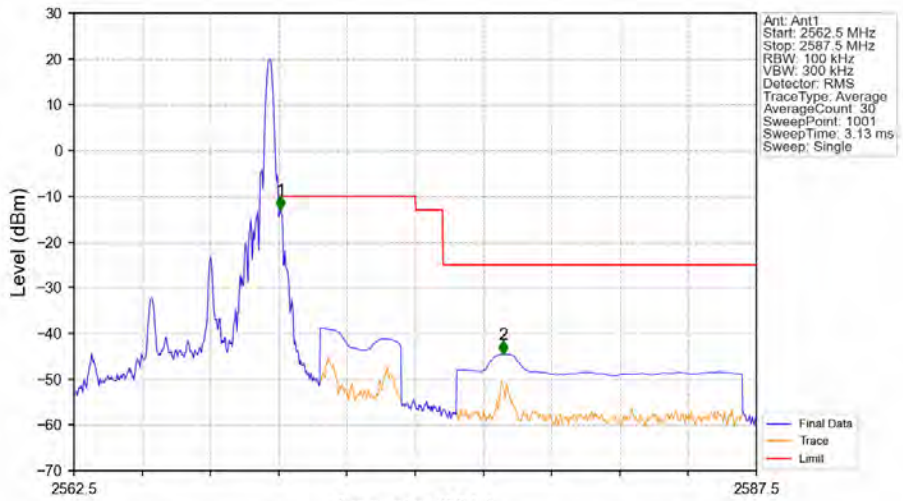

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.1	/	/	/	/	/	/
2570	2571	0.1	/	1	2570.075	-13.00	-10	Pass
2571	2587.5	1	CHP	2	2578.225	-44.59	-25	Pass

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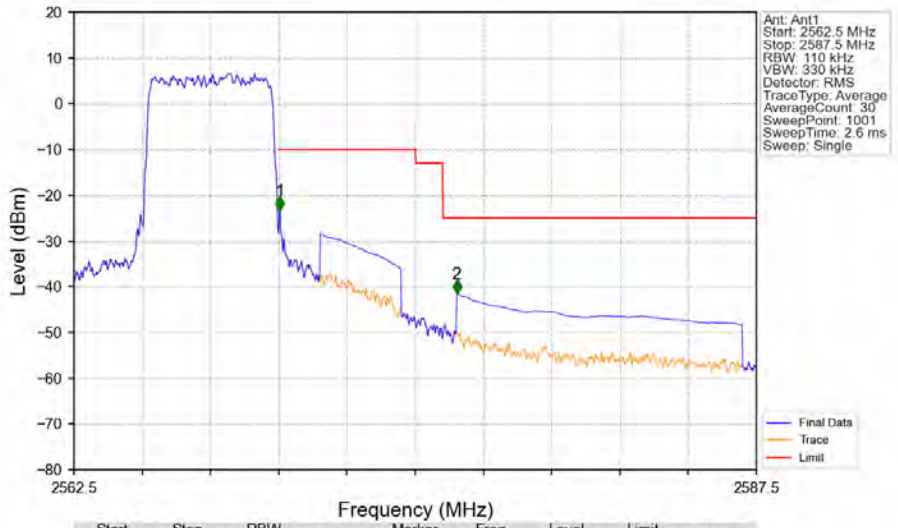

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2562.5	2570	0.11	/	/	/	/	/	/
2570	2571	0.11	/	1	2570.050	-23.40	-10	Pass
2571	2587.5	1	CHP	2	2576.525	-41.50	-25	Pass

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5.2 B7_10MHz

5.2.1 Test Result

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

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5.2.2 Test Graph

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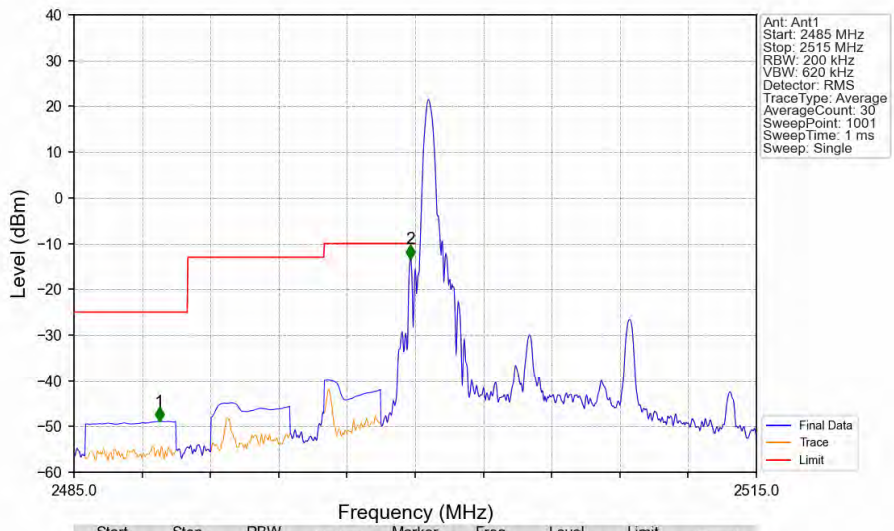

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2488.750	-48.84	-25	Pass
2499	2500	0.2	/	2	2499.790	-13.36	-10	Pass
2500	2515	0.2	/	/	/	/	/	/

Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV

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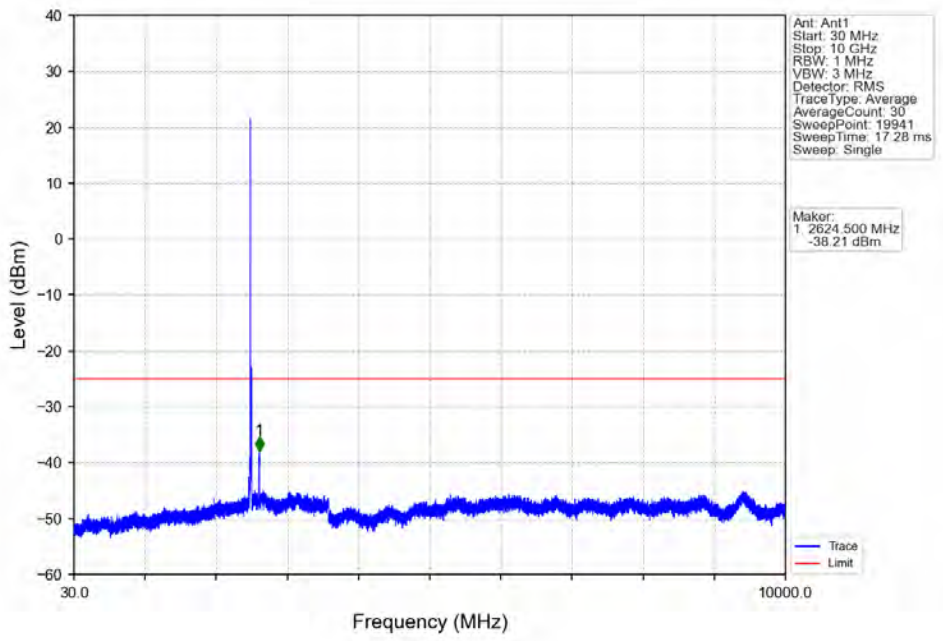

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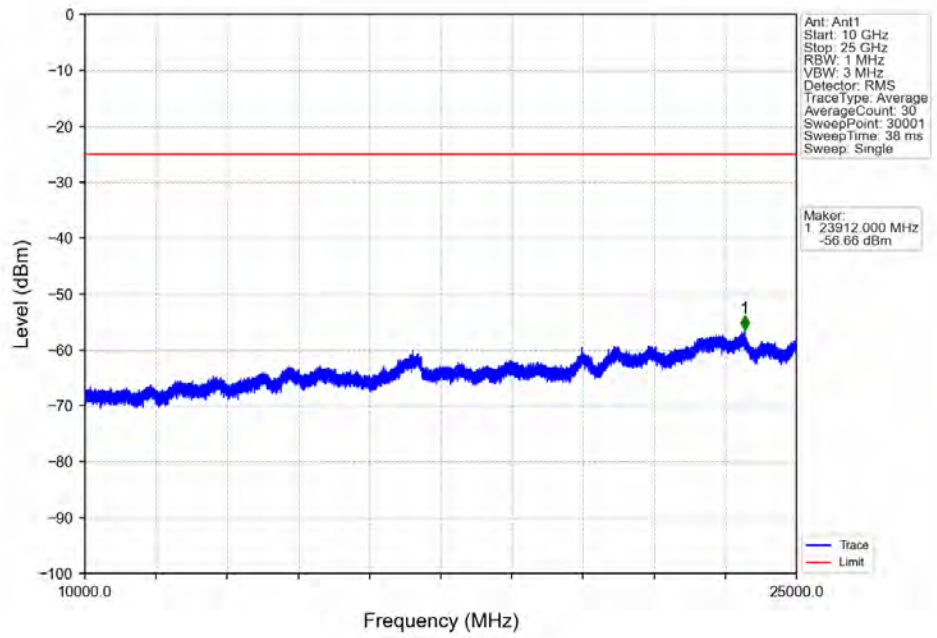

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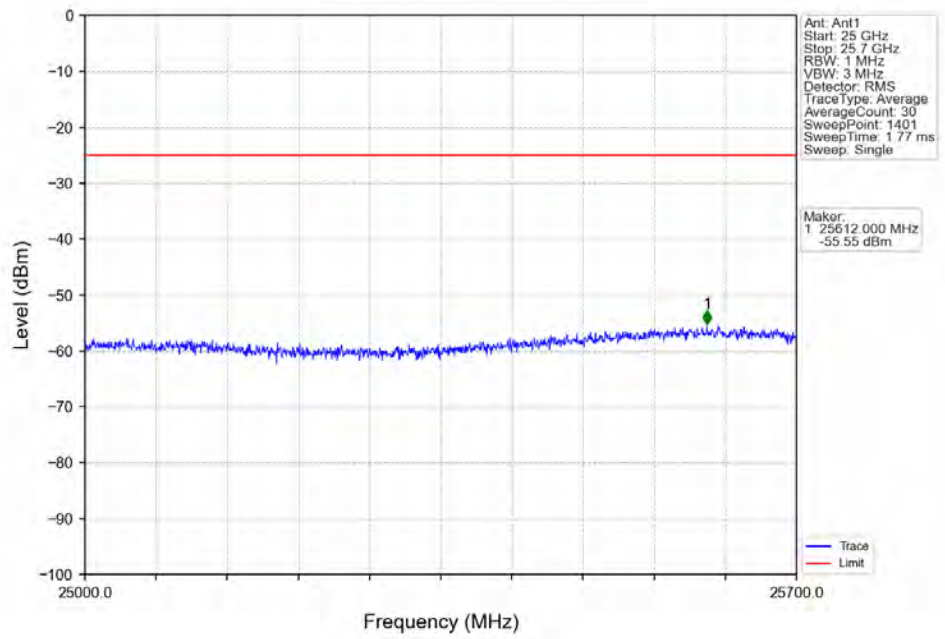

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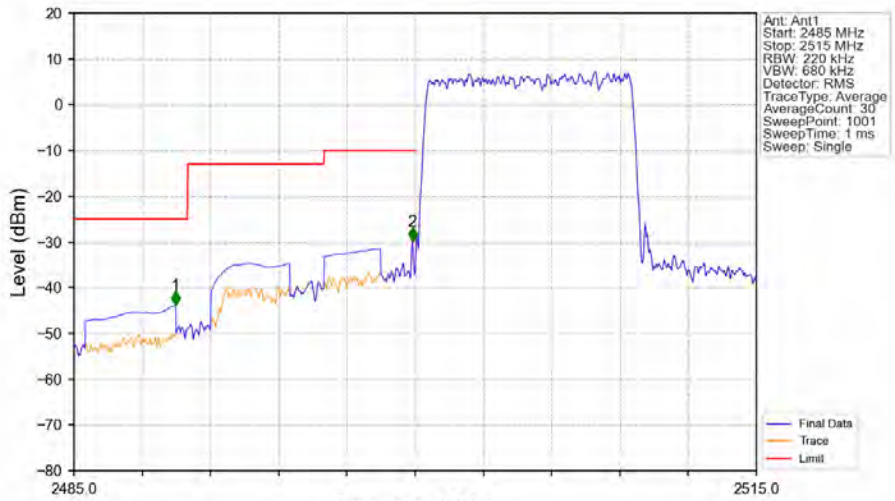

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.470	-43.81	-25	Pass
2499	2500	0.22	/	2	2499.880	-29.90	-10	Pass
2500	2515	0.22	/	/	/	/	/	/

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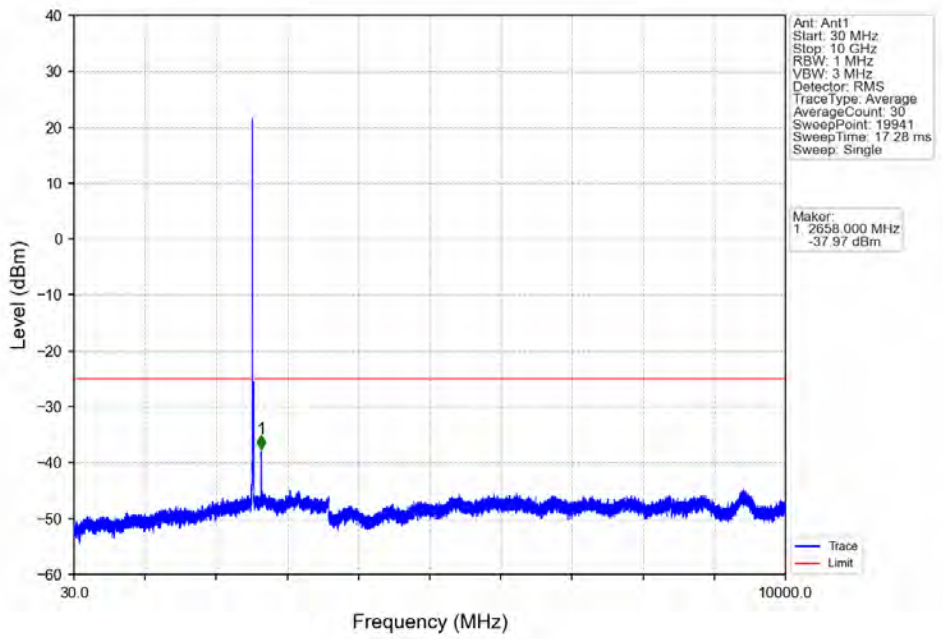

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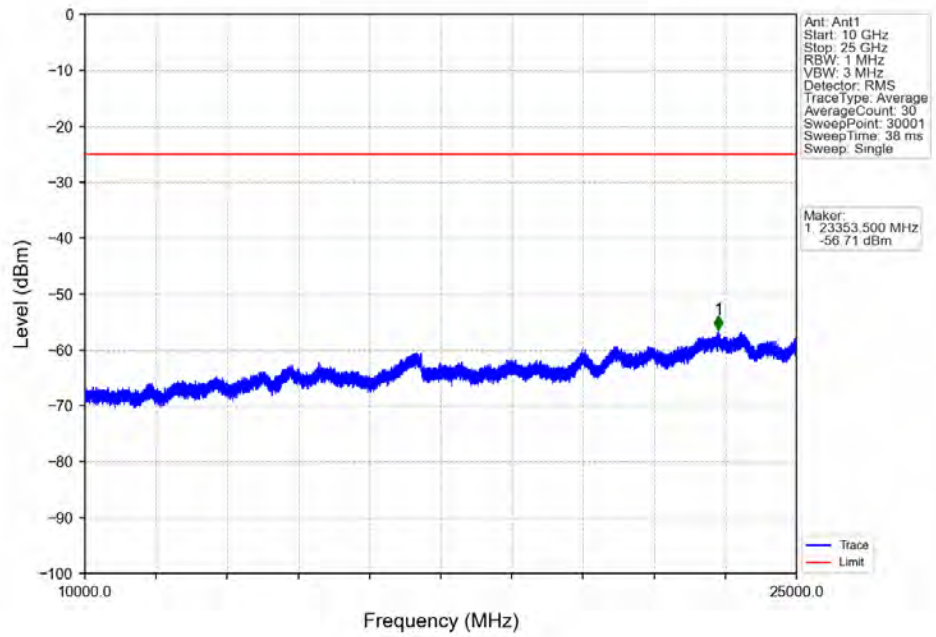

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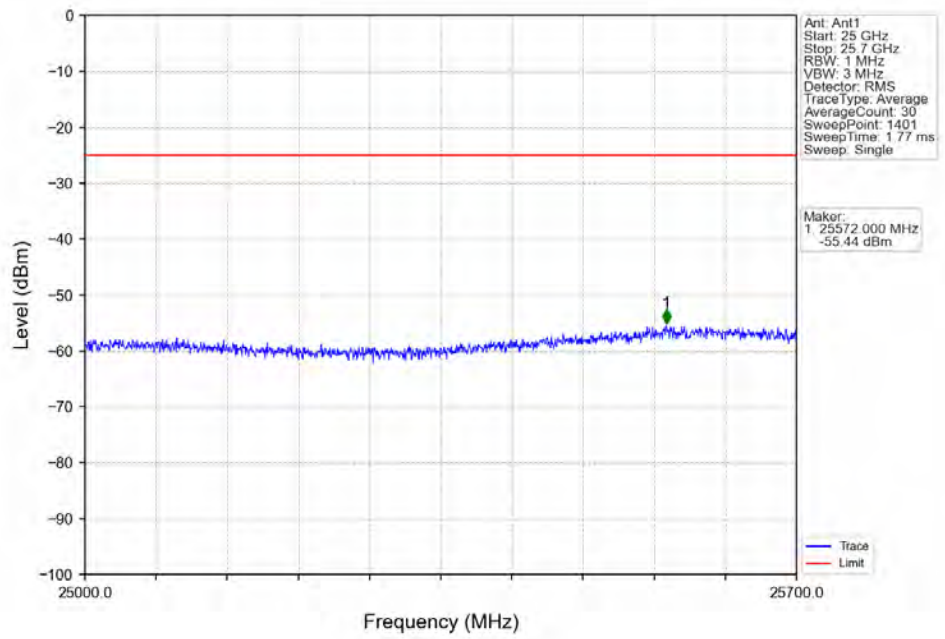

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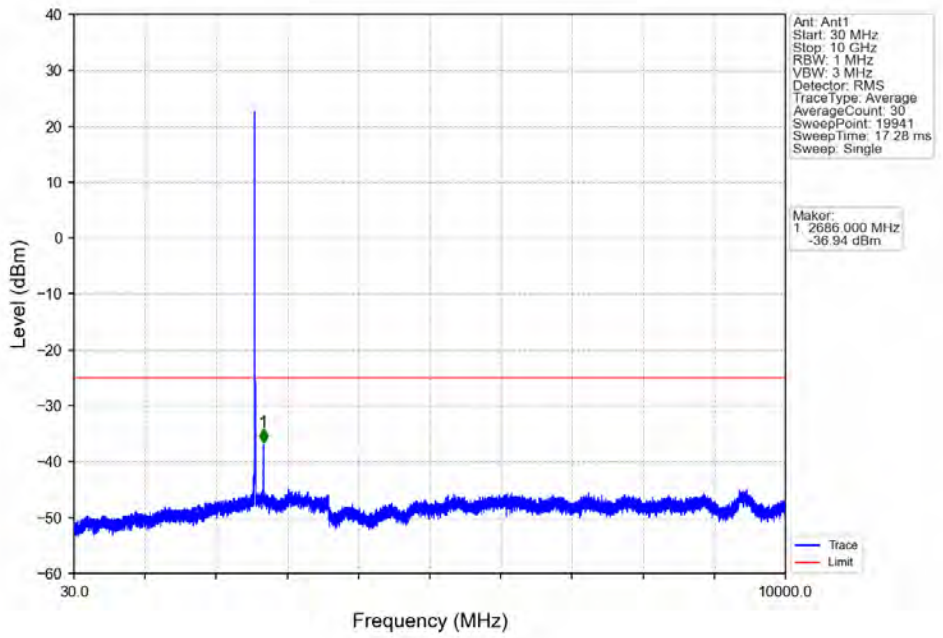

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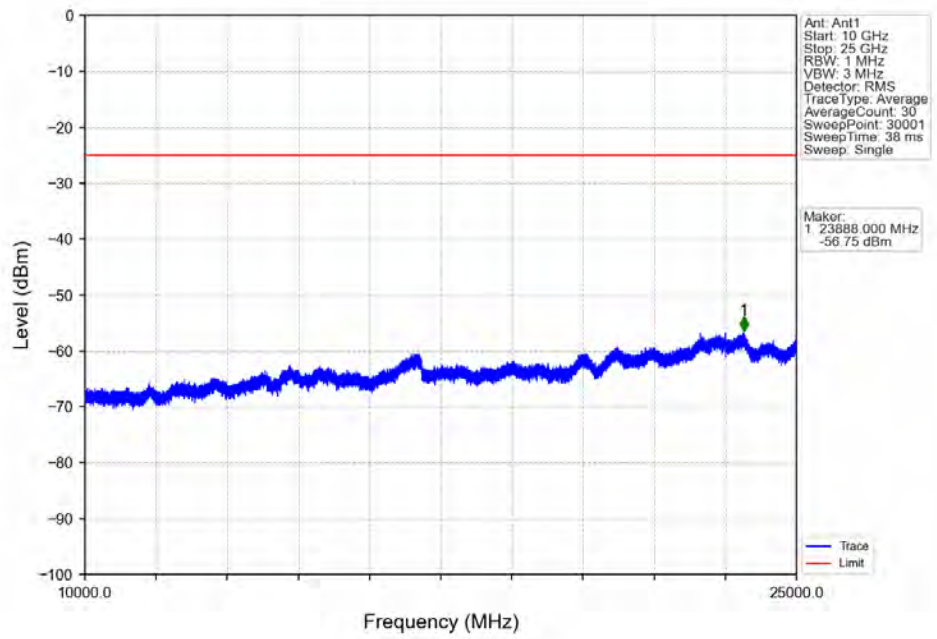

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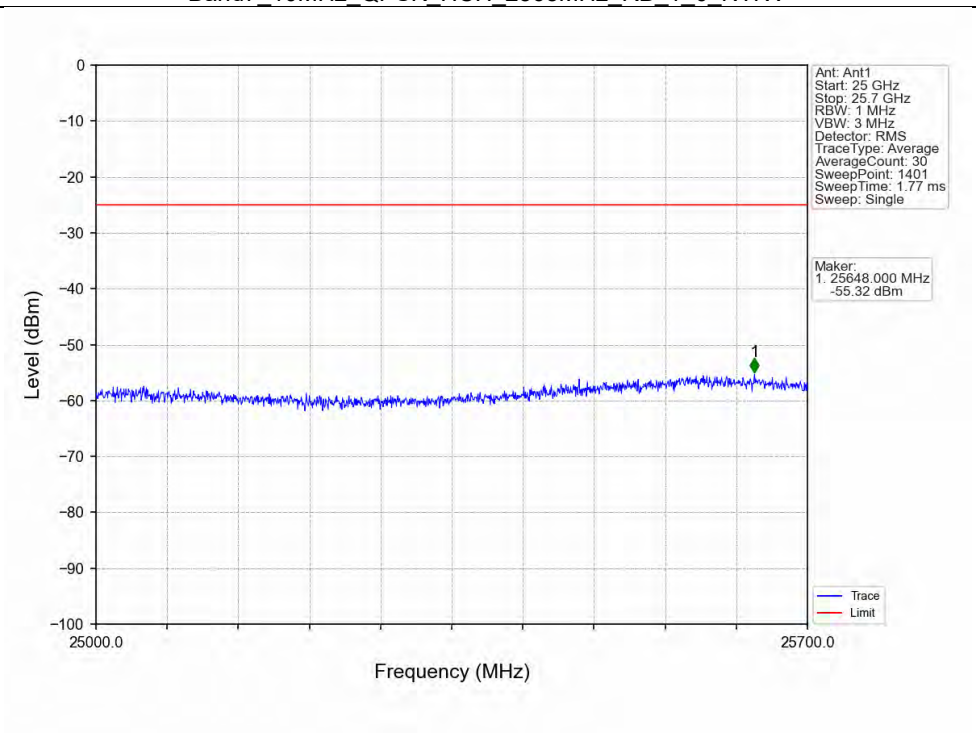

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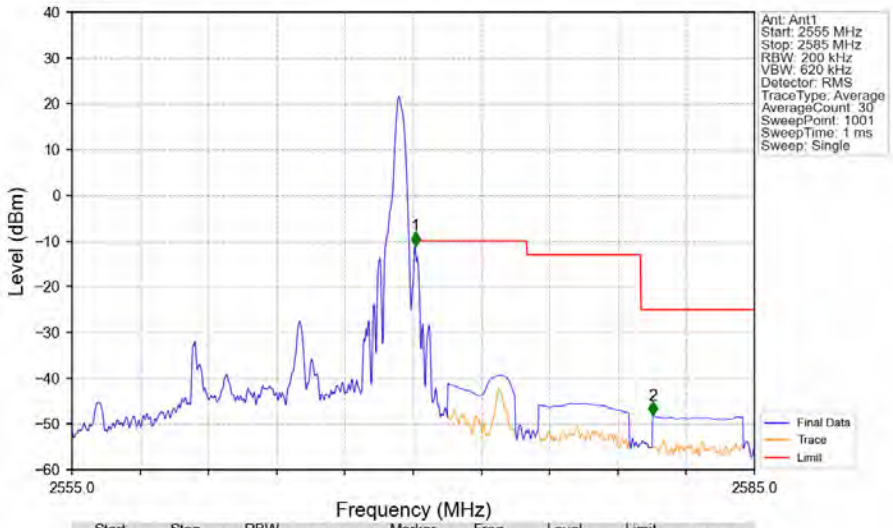

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	/	/	/	/	/
2570	2571	0.2	/	1	2570.090	-11.07	-10	Pass
2571	2585	1	CHP	2	2580.530	-48.18	-25	Pass

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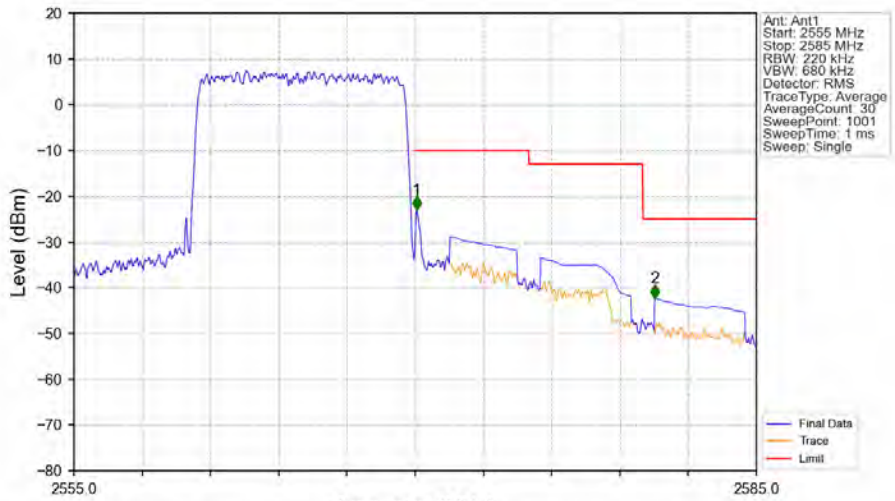
Band7_10MHz_QPSK_HCH_2565MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.22	/	/	/	/	/	/
2570	2571	0.22	/	1	2570.060	-23.11	-10	Pass
2571	2585	1	CHP	2	2580.530	-42.37	-25	Pass

Band7_10MHz_16QAM_LCH_2505MHz_RB_1_0_NTNV

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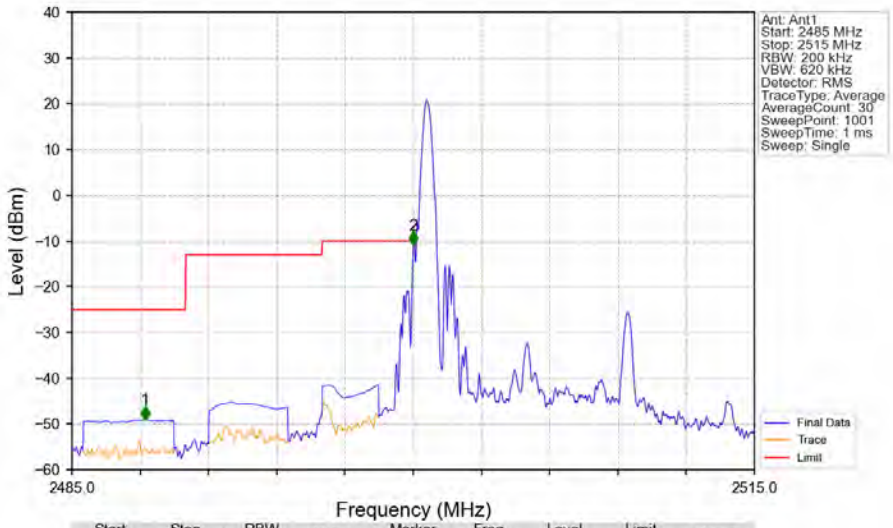

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2488.210	-49.16	-25	Pass
2499	2500	0.2	/	2	2500.000	-11.02	-10	Pass
2500	2515	0.2	/	/	/	/	/	/

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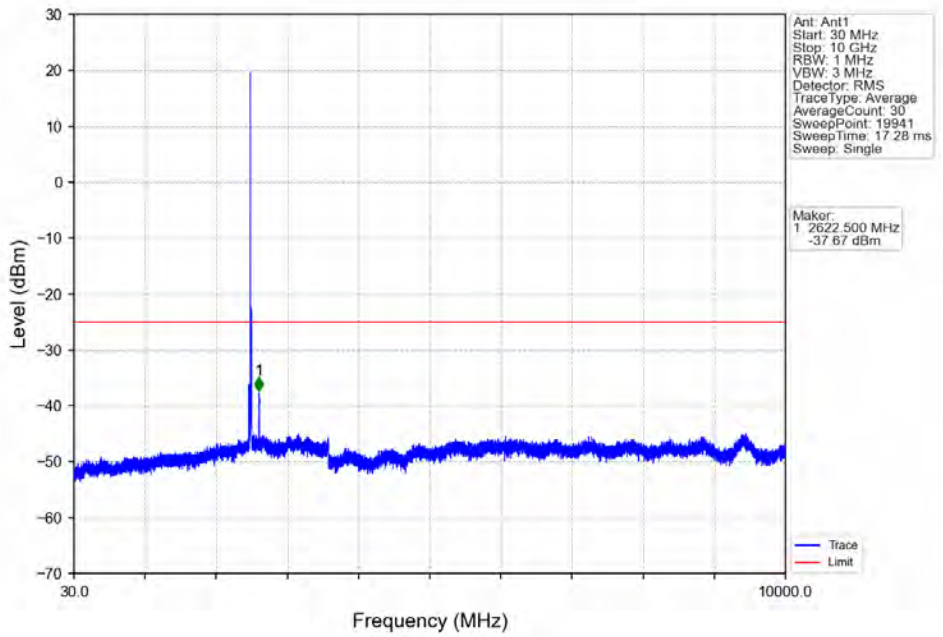

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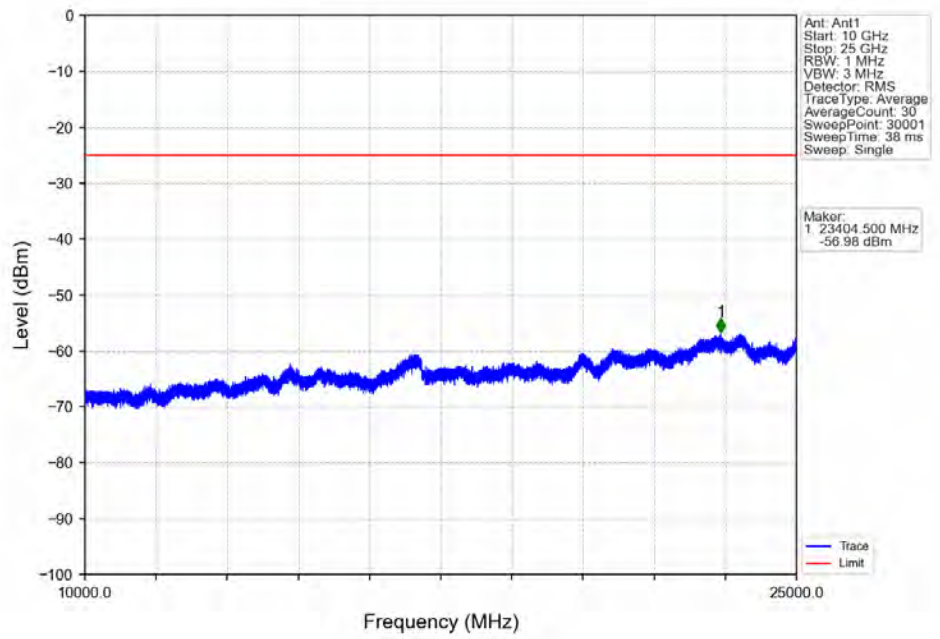

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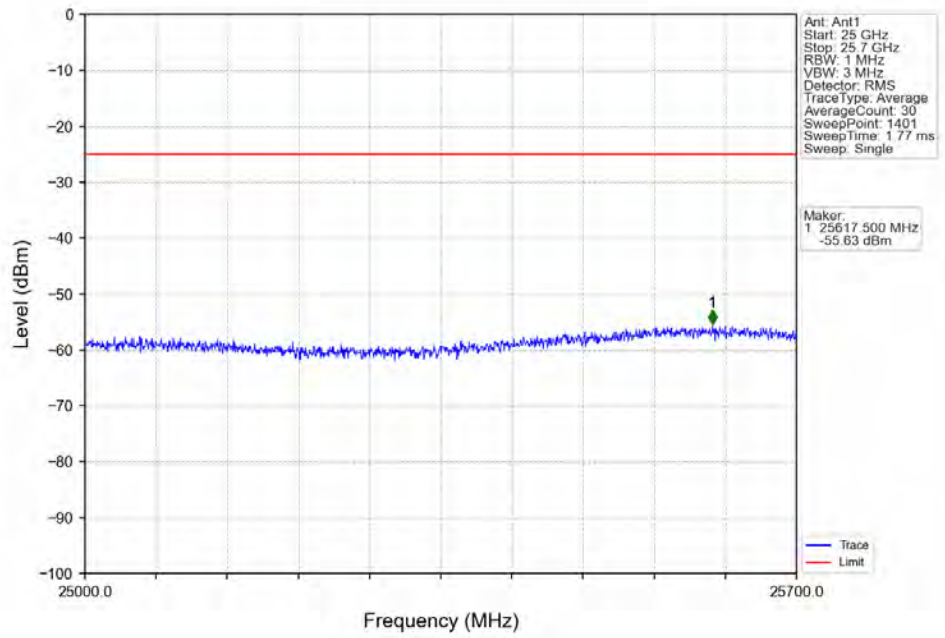
Band7_10MHz_16QAM_LCH_2505MHz_RB_1_0_NTNV



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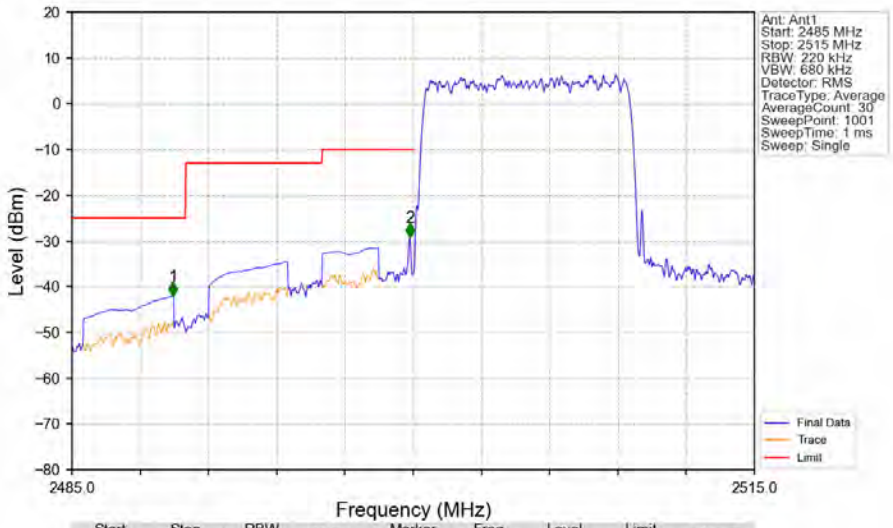

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2489.440	-42.05	-25	Pass
2499	2500	0.22	/	2	2499.850	-29.18	-10	Pass
2500	2515	0.22	/	/	/	/	/	/

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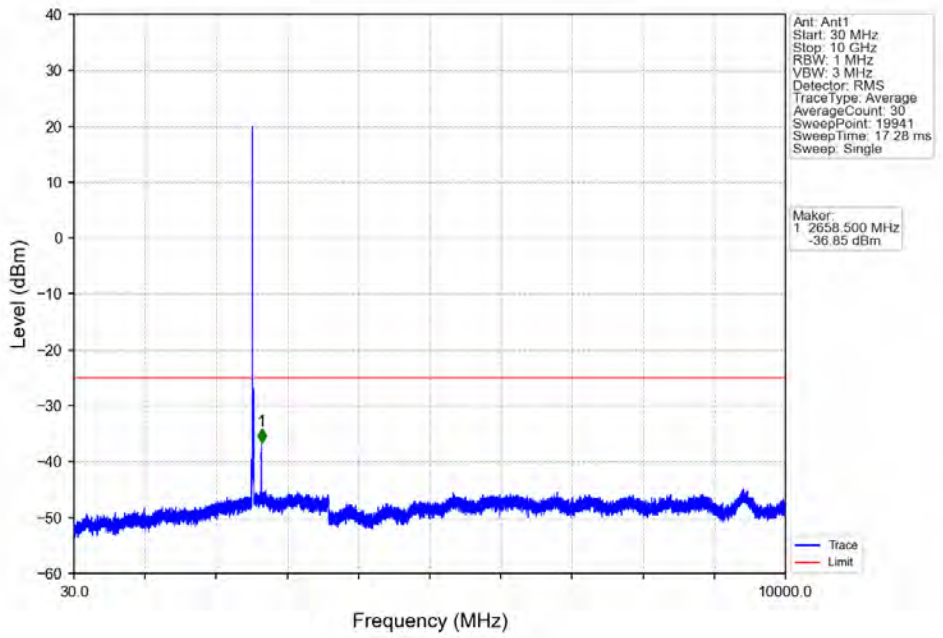

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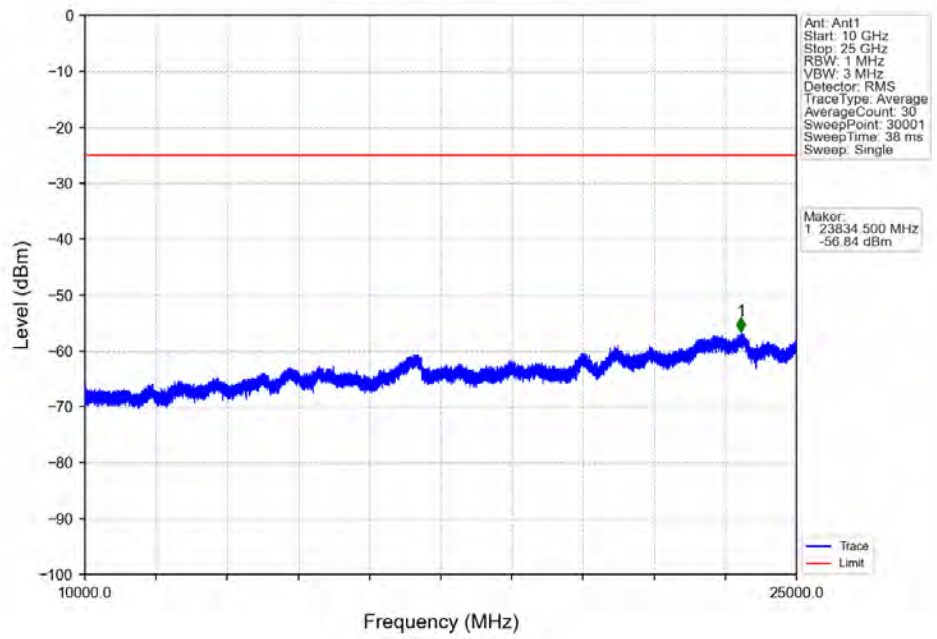

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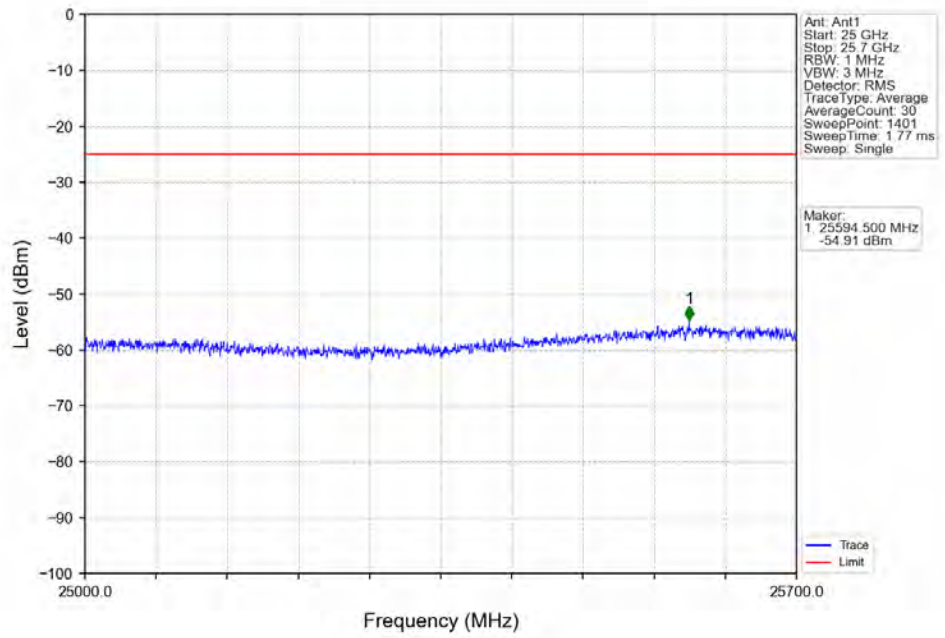

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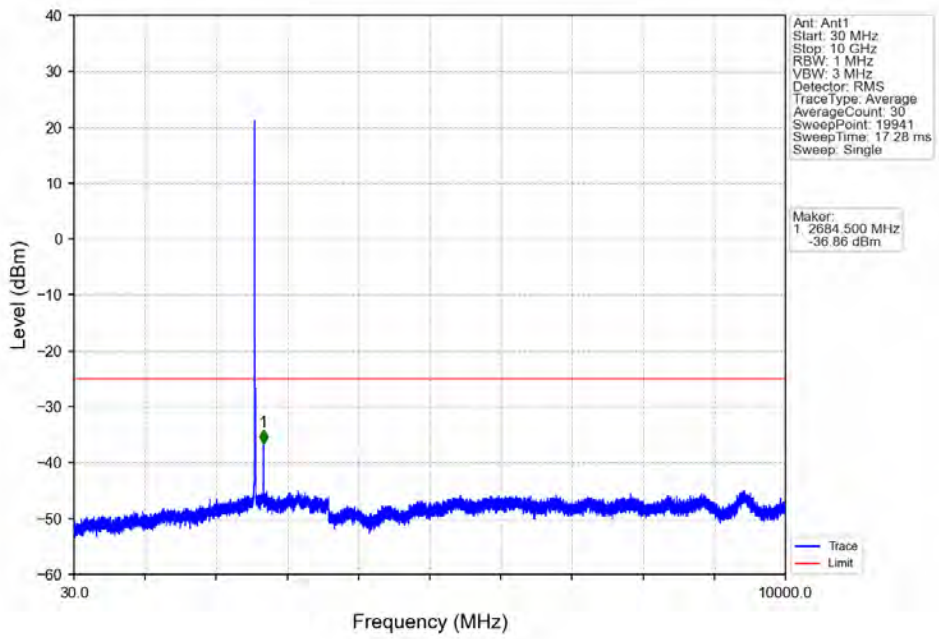

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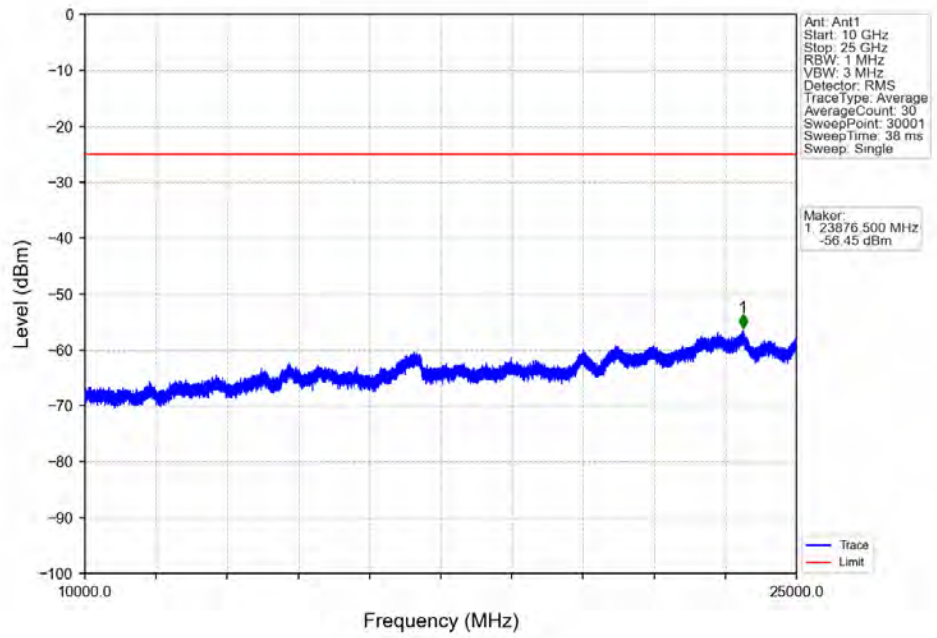

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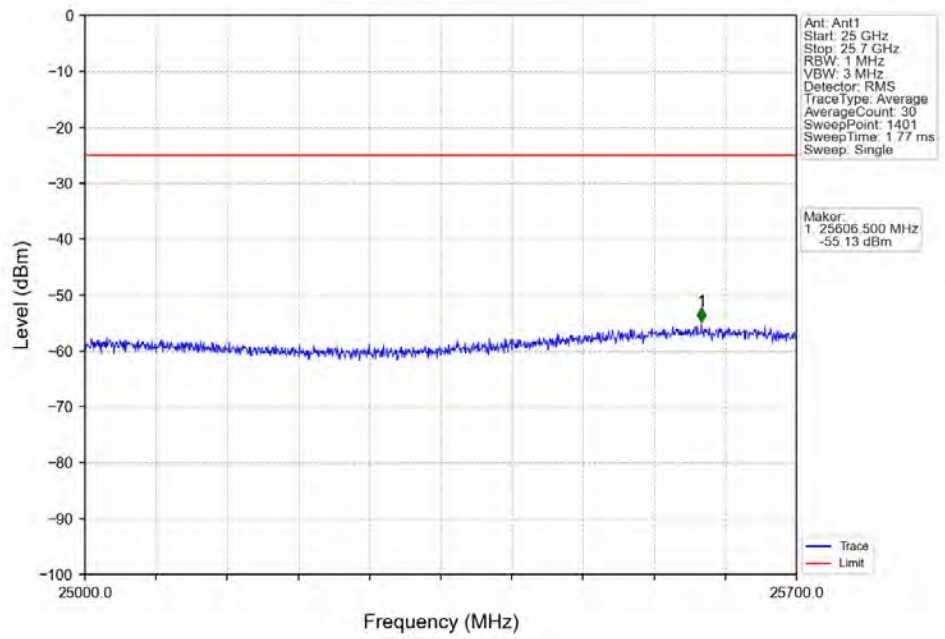

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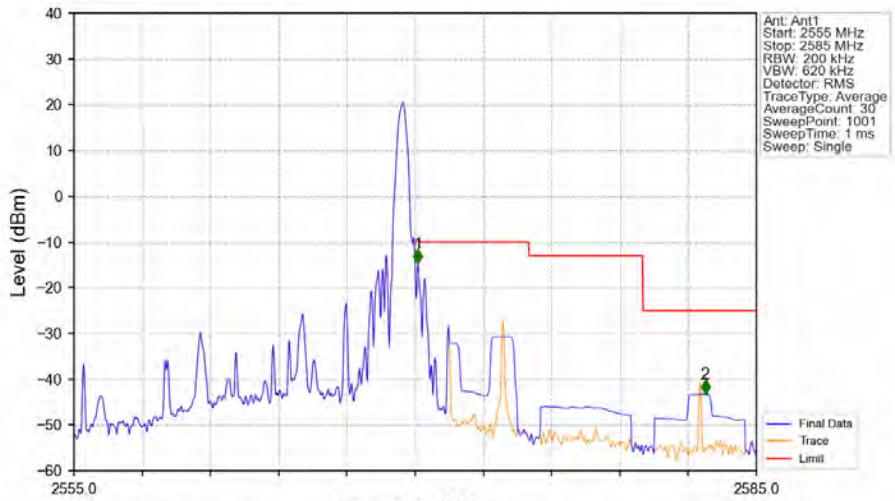
Band7_10MHz_16QAM_HCH_2565MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.2	/	/	/	/	/	/
2570	2571	0.2	/	1	2570.120	-14.63	-10	Pass
2571	2585	1	CHP	2	2582.750	-43.30	-25	Pass

Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV

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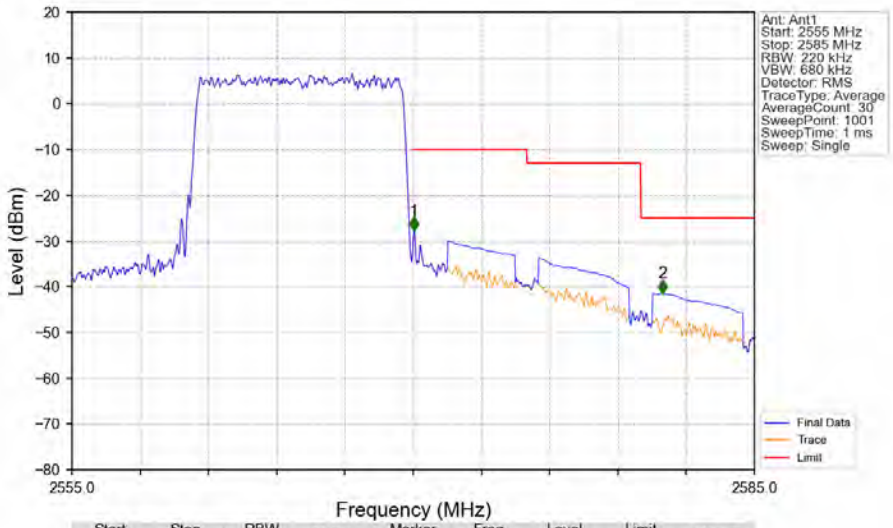

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.22	/	/	/	/	/	/
2570	2571	0.22	/	1	2570.030	-27.82	-10	Pass
2571	2585	1	CHP	2	2580.950	-41.49	-25	Pass

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5.3 B7_15MHz

5.3.1 Test Result

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

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5.3.2 Test Graph

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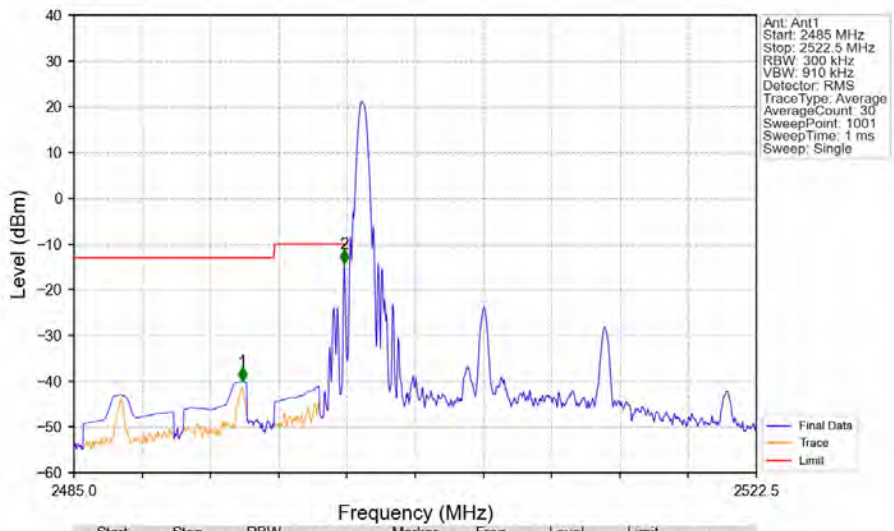

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2494.262	-40.14	-13	Pass
2499	2500	0.3	/	2	2499.850	-14.32	-10	Pass
2500	2522.5	0.3	/	/	/	/	/	/

Band7_15MHz_QPSK_LCH_2507.5MHz_RB_1_0_NTNV

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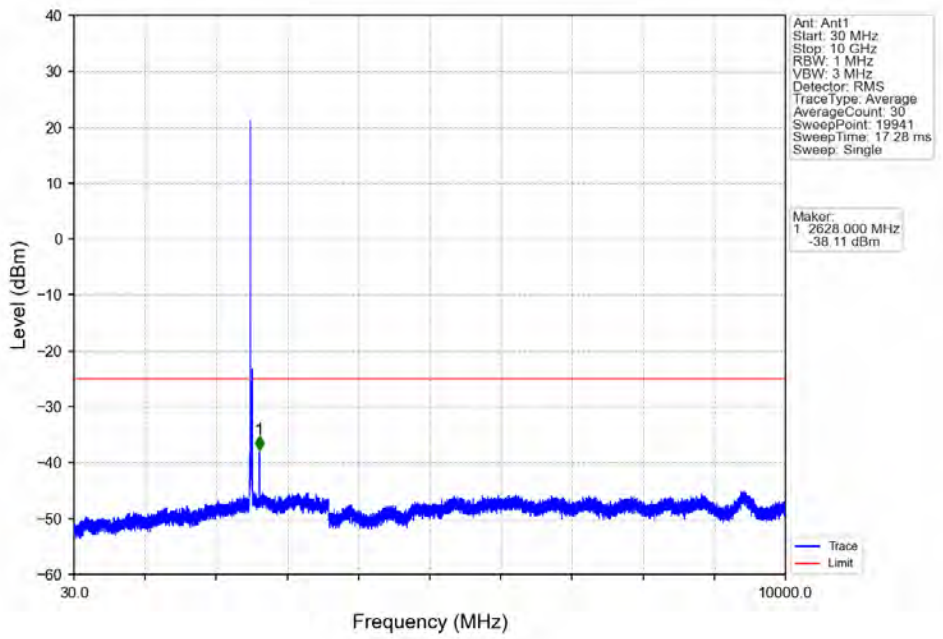

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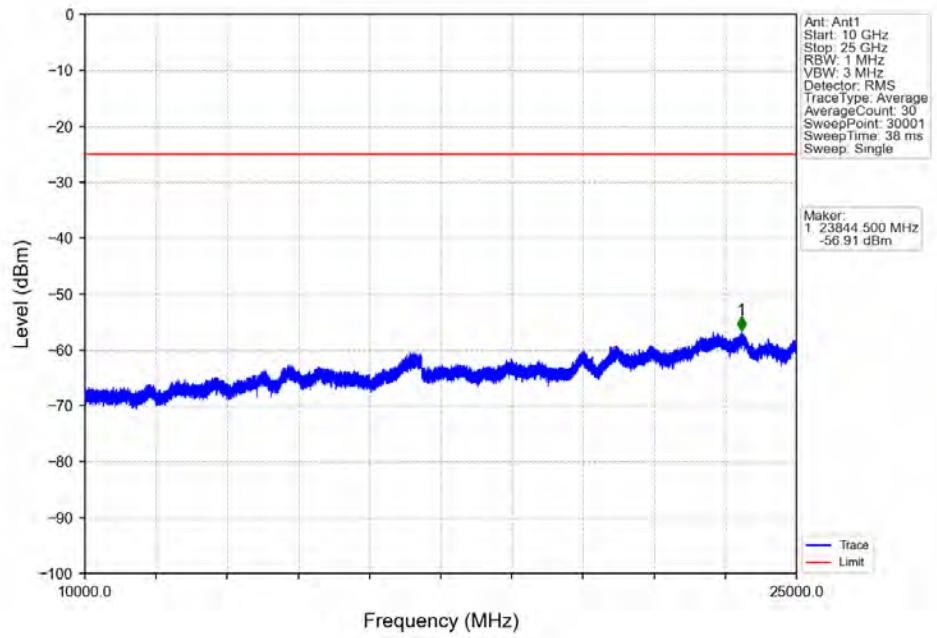

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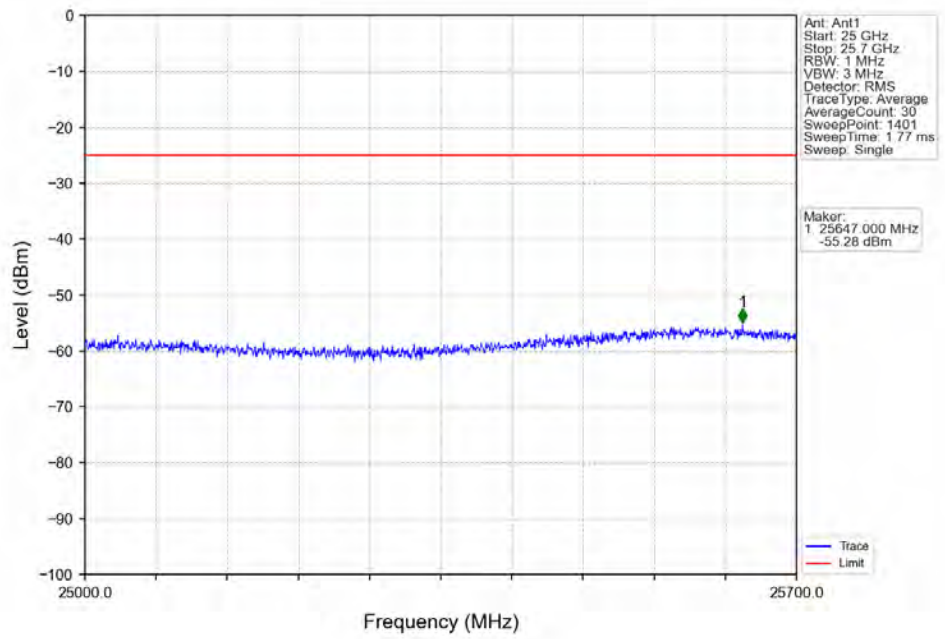

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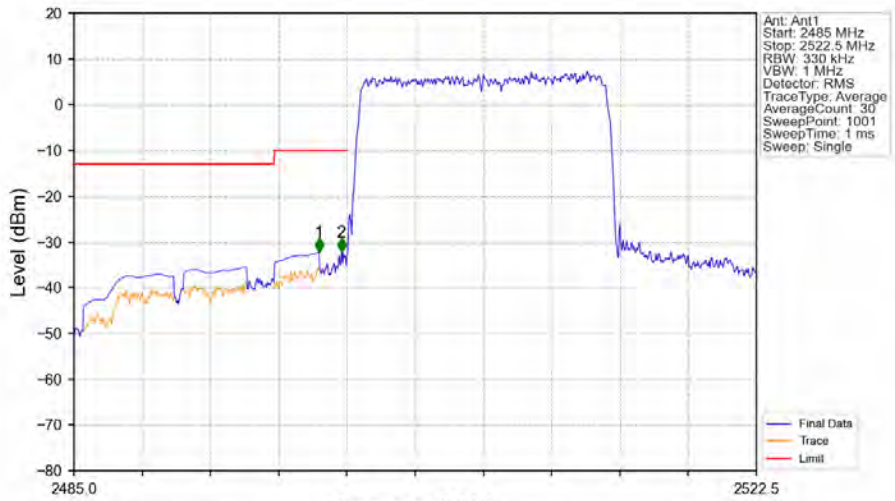

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2498.463	-32.21	-10	Pass
2499	2500	0.33	/	2	2499.700	-32.27	-10	Pass
2500	2522.5	0.33	/	/	/	/	/	/

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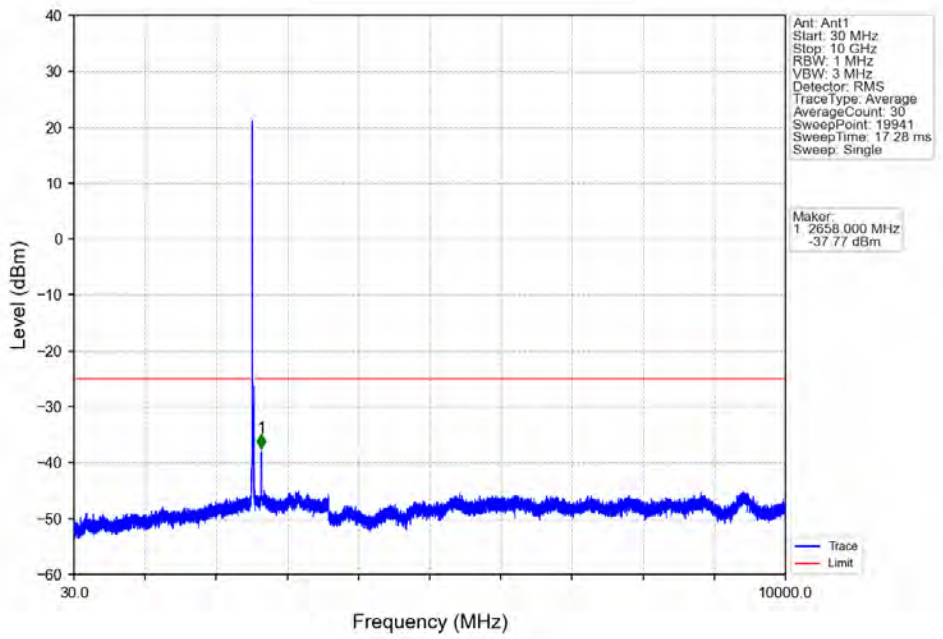

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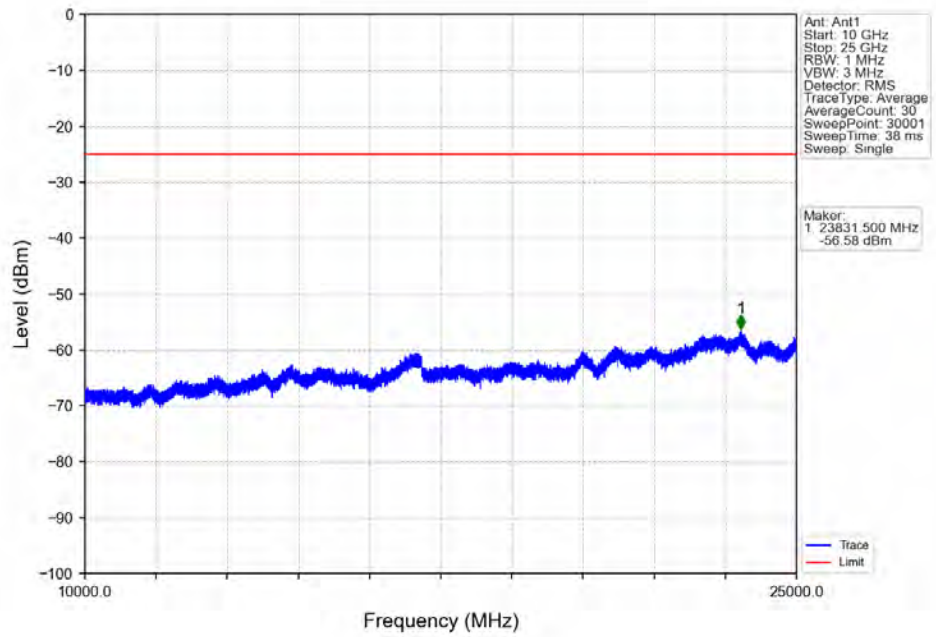

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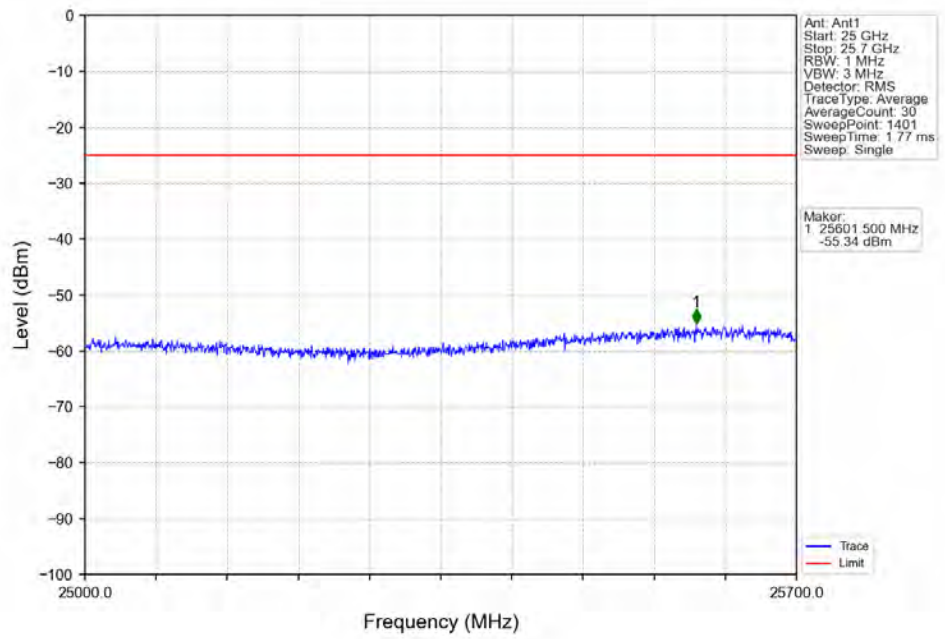

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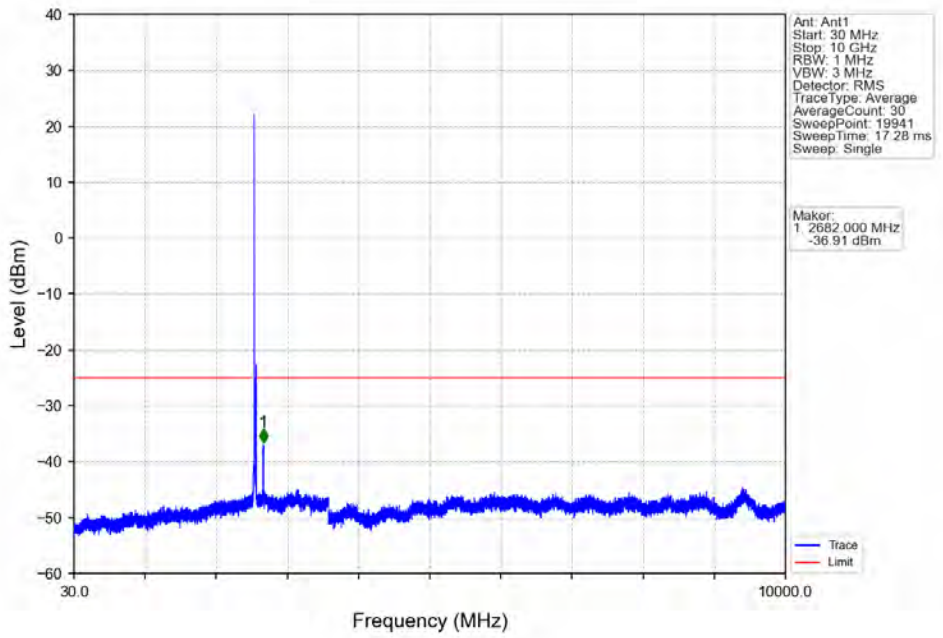
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



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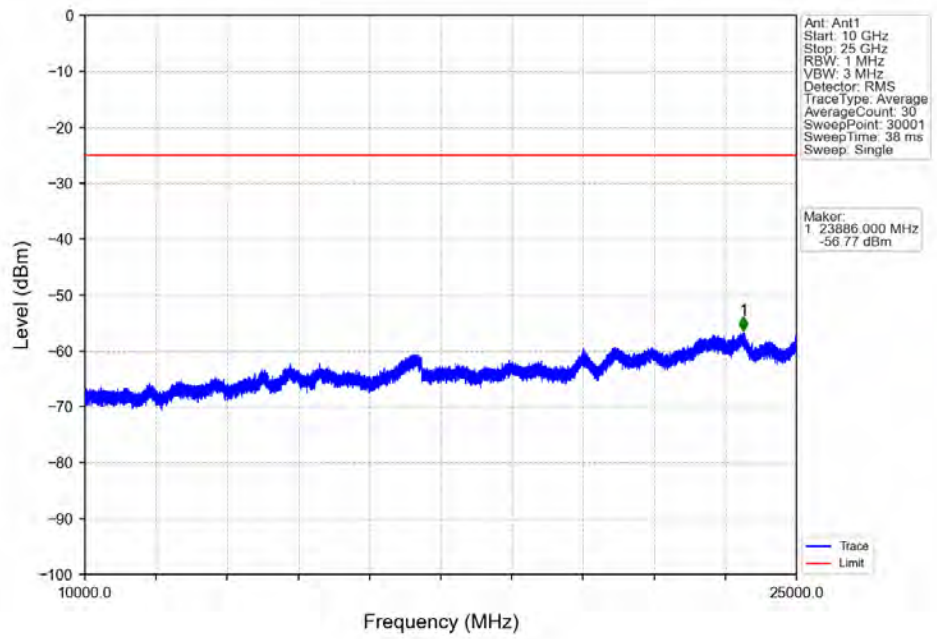

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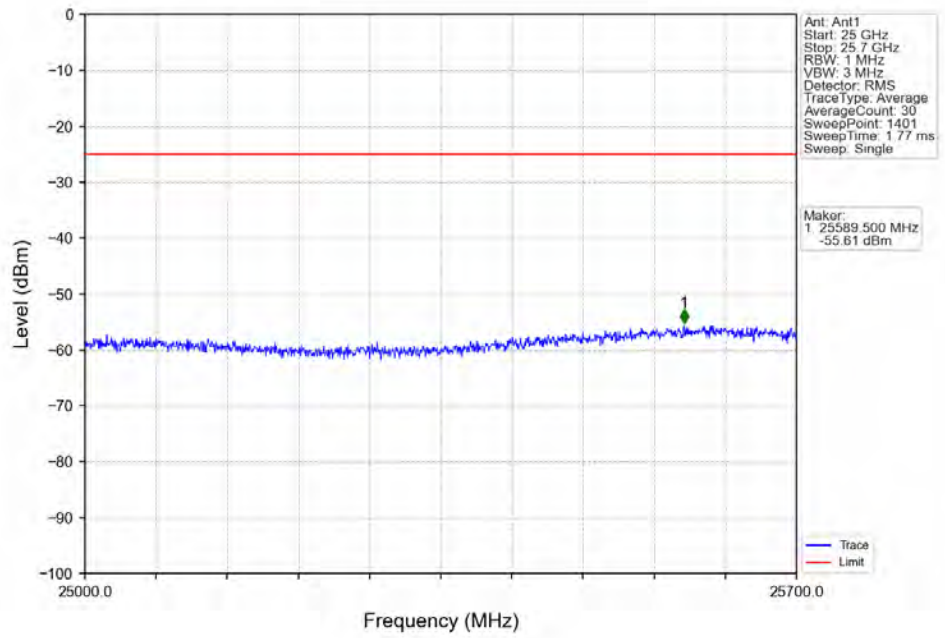

Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_74_NTNV

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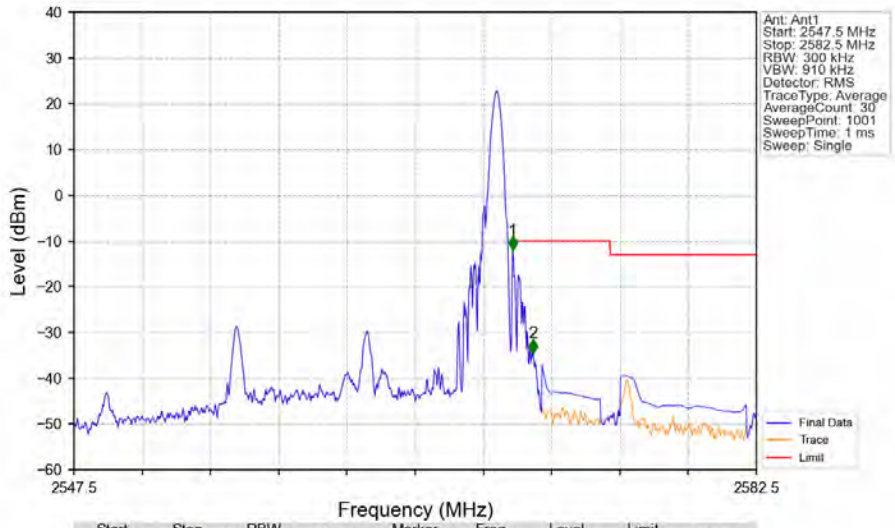

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.3	/	/	/	/	/	/
2570	2571	0.3	/	1	2570.005	-11.98	-10	Pass
2571	2582.5	1	CHP	2	2571.055	-34.52	-10	Pass

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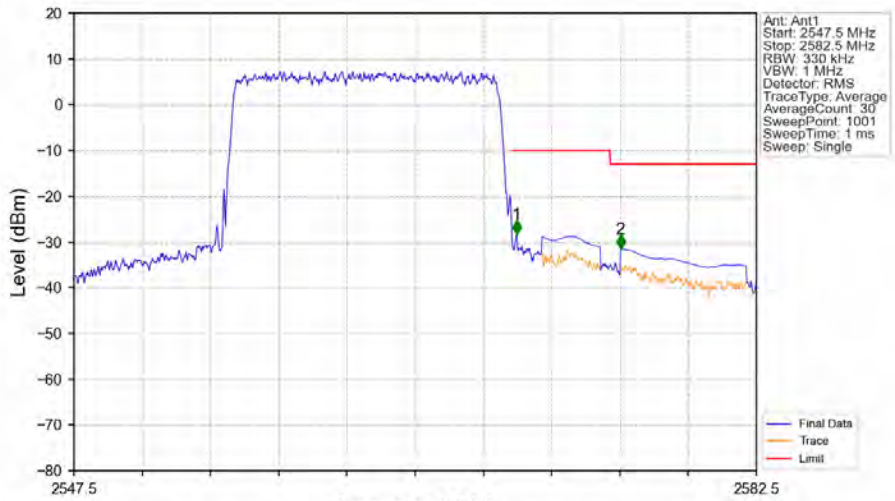
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.33	/	/	/	/	/	/
2570	2571	0.33	/	1	2570.215	-28.28	-10	Pass
2571	2582.5	1	CHP	2	2575.535	-31.54	-13	Pass

Band7_15MHz_16QAM_LCH_2507.5MHz_RB_1_0_NTNV

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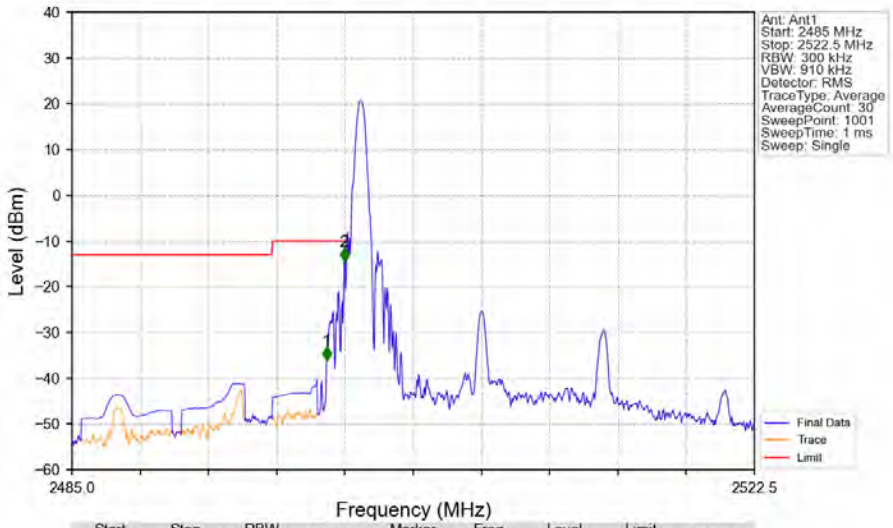

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2498.988	-36.26	-10	Pass
2499	2500	0.3	/	2	2499.963	-14.50	-10	Pass
2500	2522.5	0.3	/	/	/	/	/	/

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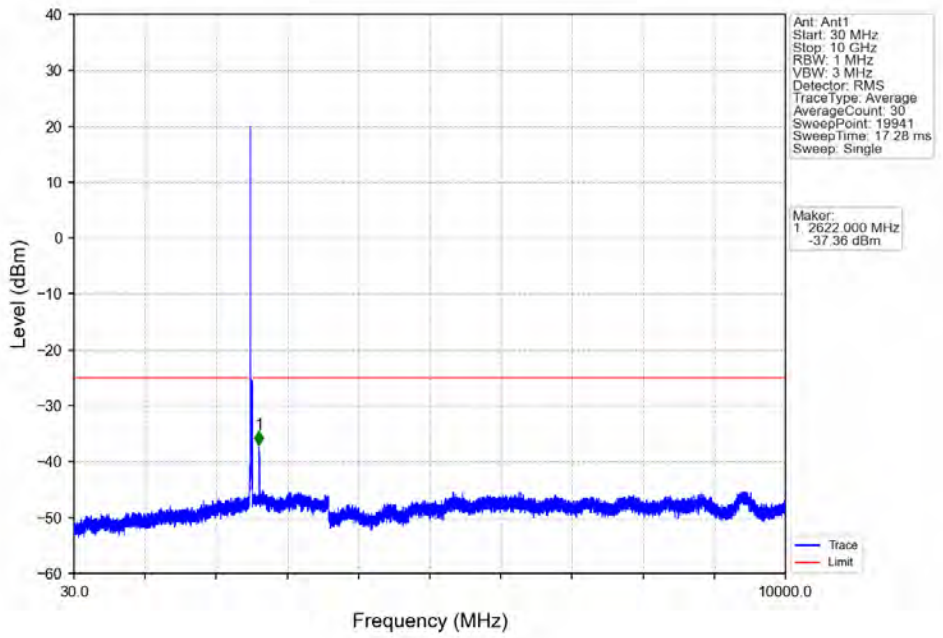

Band7_15MHz_16QAM_LCH_2507.5MHz_RB_1_0_NTNV

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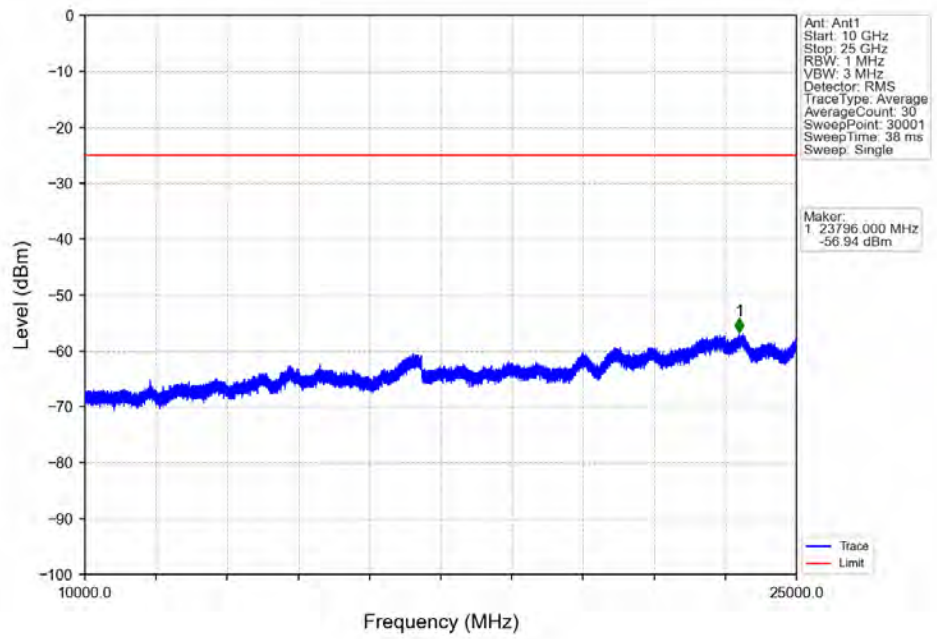

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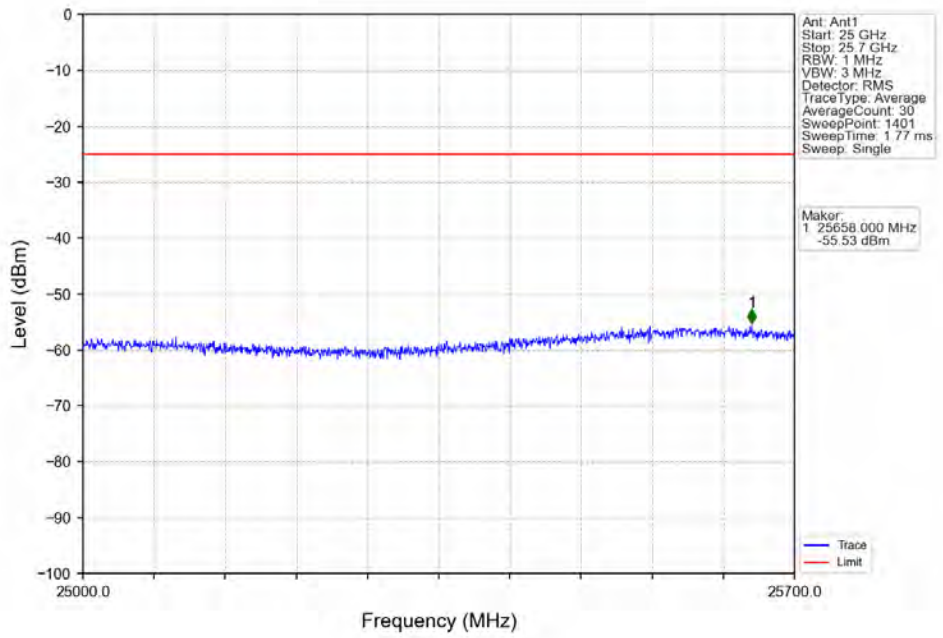

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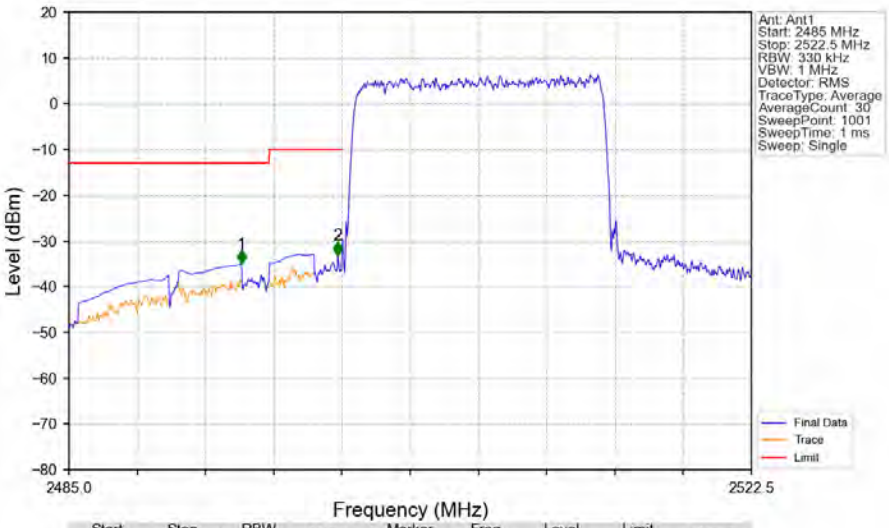

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2494.488	-35.02	-13	Pass
2499	2500	0.33	/	2	2499.775	-33.18	-10	Pass
2500	2522.5	0.33	/	/	/	/	/	/

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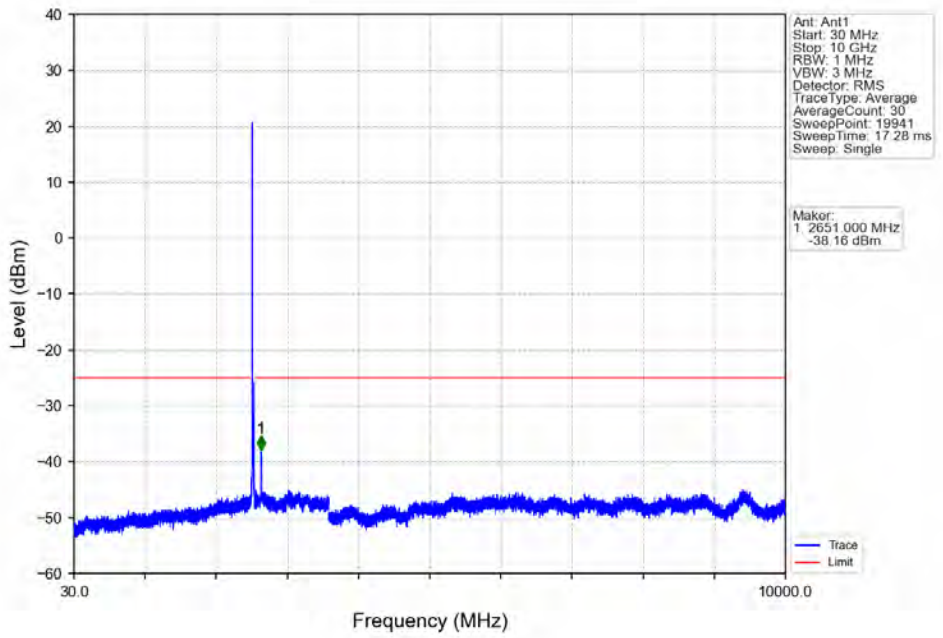

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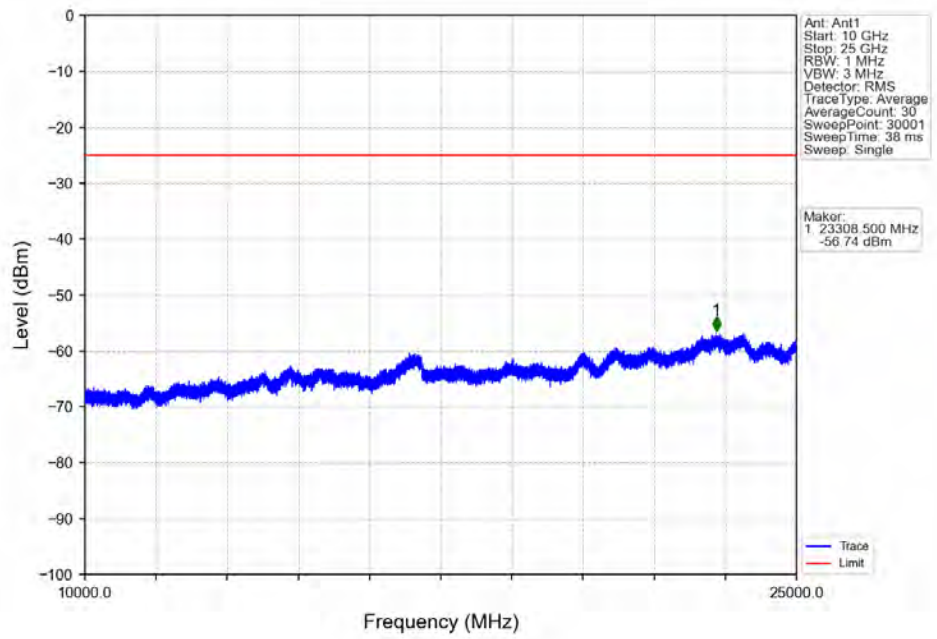

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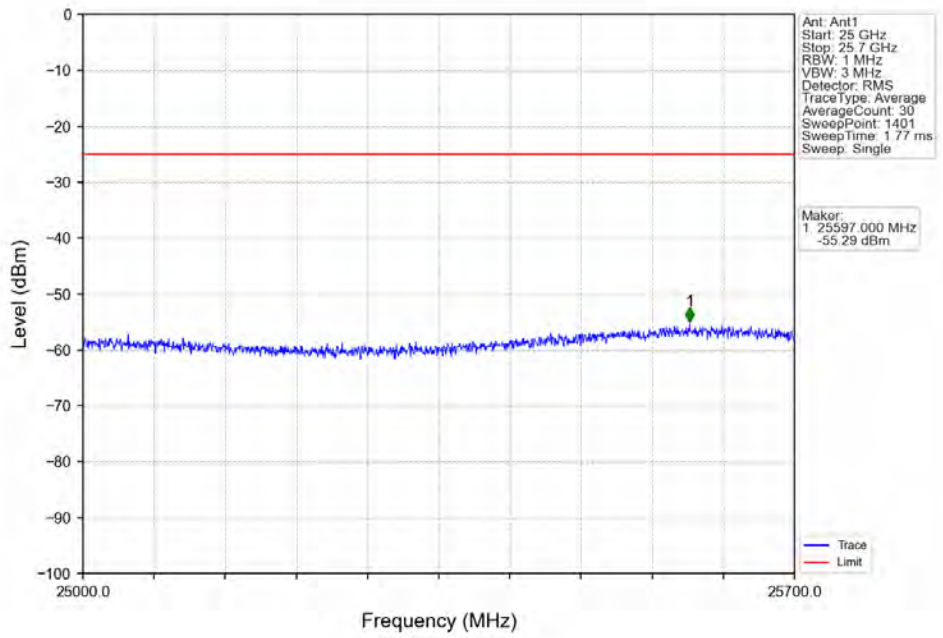

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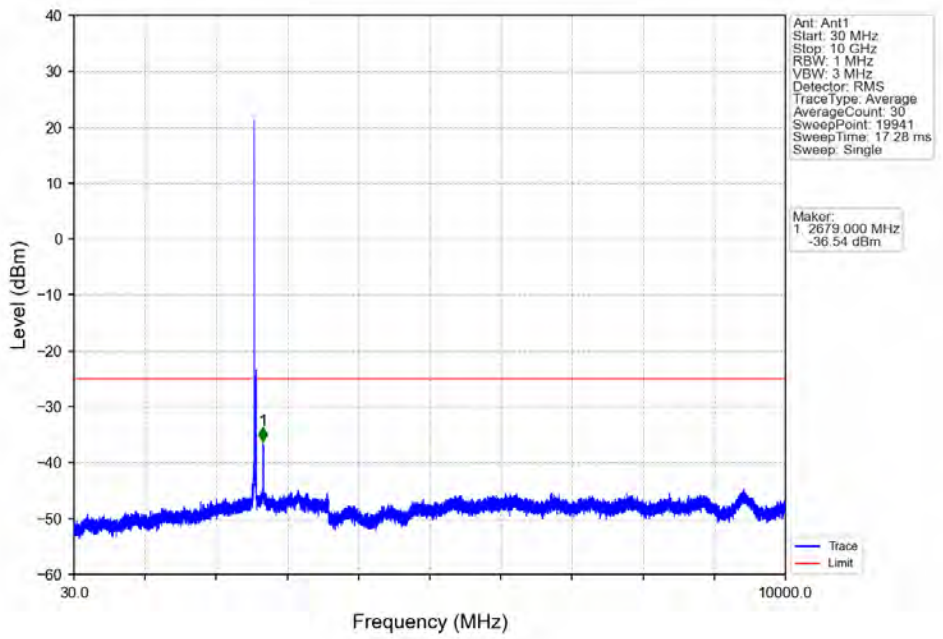

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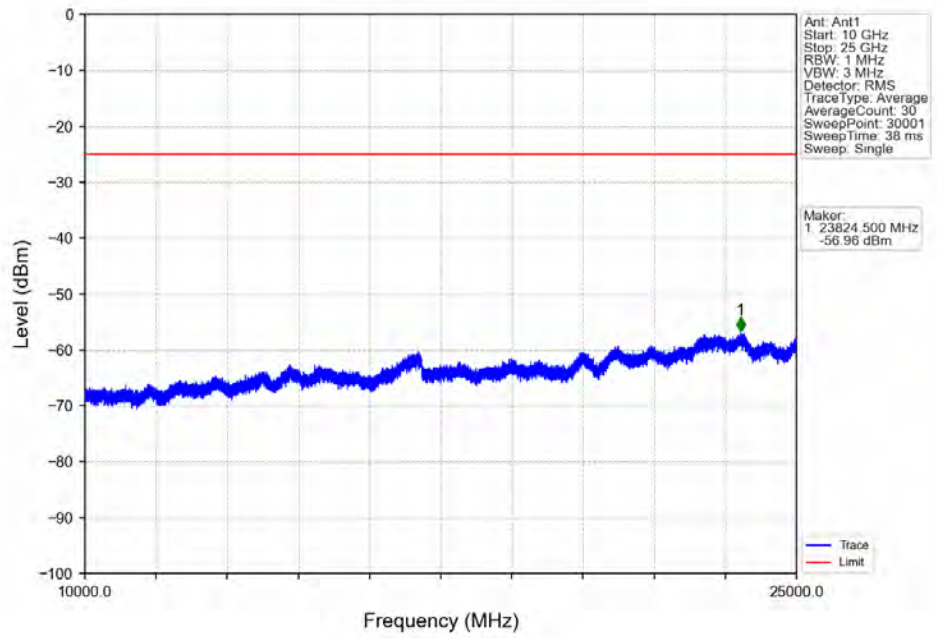
Band7_15MHz_16QAM_HCH_2562.5MHz_RB_1_0_NTNV



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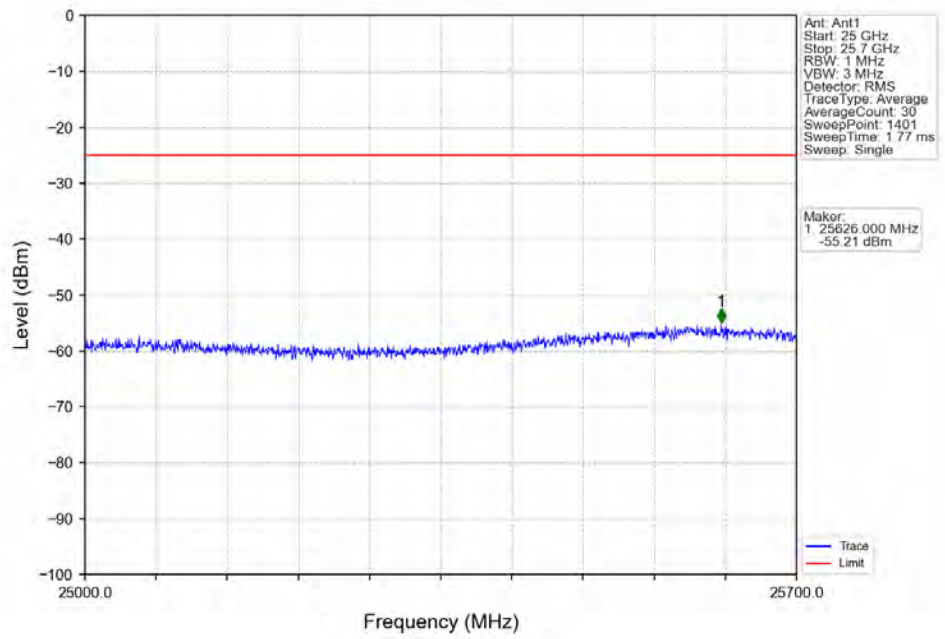

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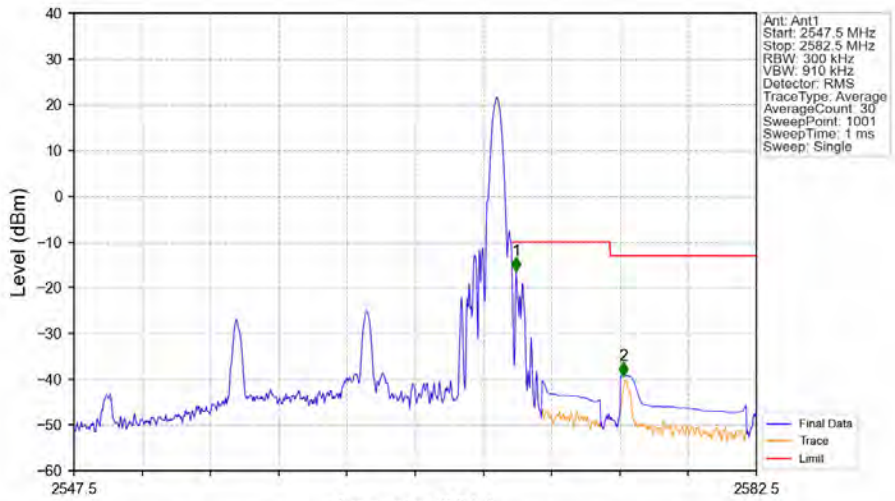

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.3	/	/	/	/	/	/
2570	2571	0.3	/	1	2570.180	-16.35	-10	Pass
2571	2582.5	1	CHP	2	2575.675	-39.28	-13	Pass

Band7_15MHz_16QAM_HCH_2562.5MHz_RB_75_0_NTNV

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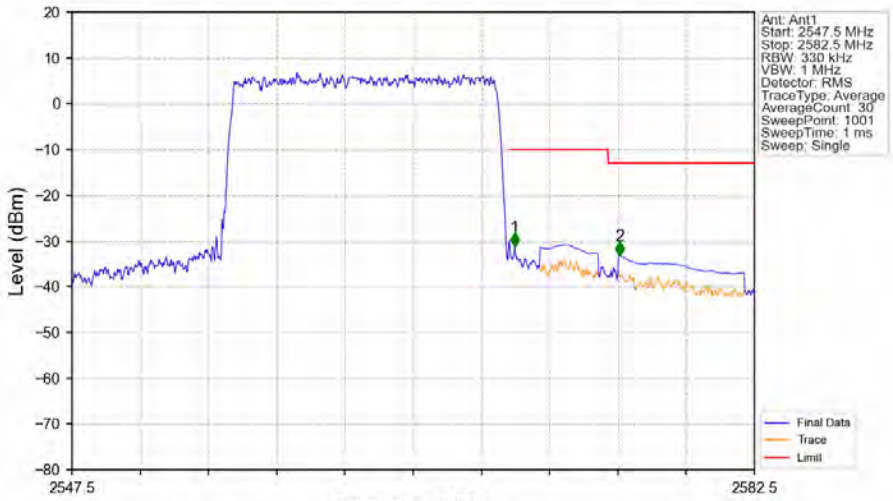

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2547.5	2570	0.33	/	/	/	/	/	/
2570	2571	0.33	/	1	2570.215	-31.39	-10	Pass
2571	2582.5	1	CHP	2	2575.605	-33.23	-13	Pass

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5.4 B7_20MHz

5.4.1 Test Result

Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

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5.4.2 Test Graph

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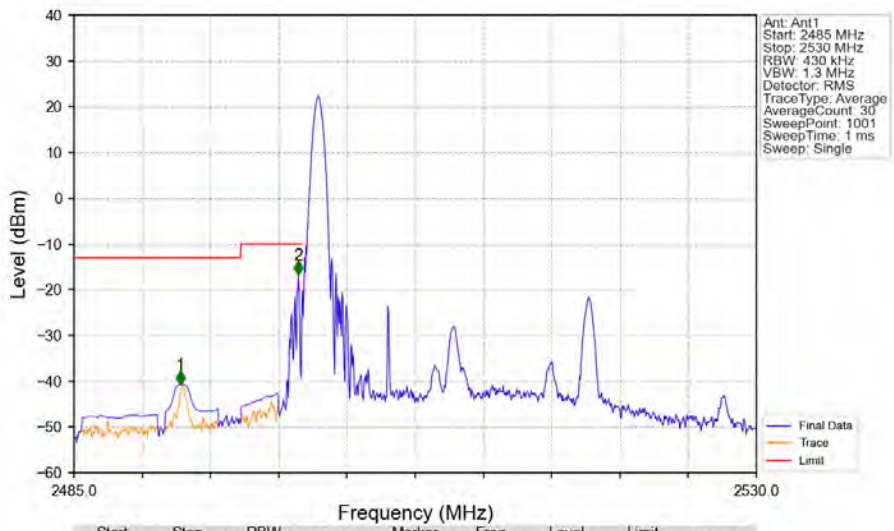

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2492.020	-40.72	-13	Pass
2499	2500	0.43	/	2	2499.805	-16.85	-10	Pass
2500	2530	0.43	/	/	/	/	/	/

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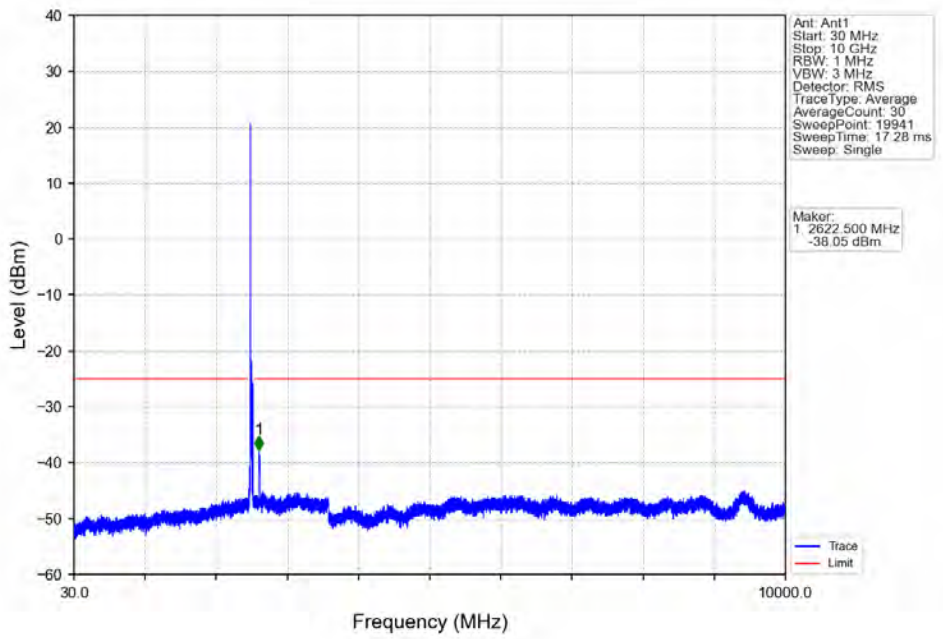

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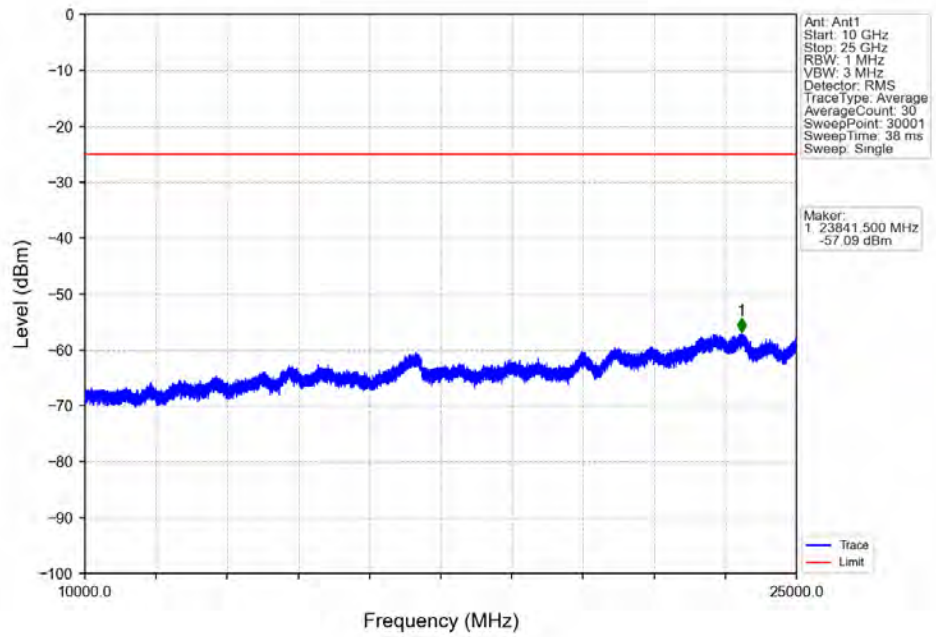

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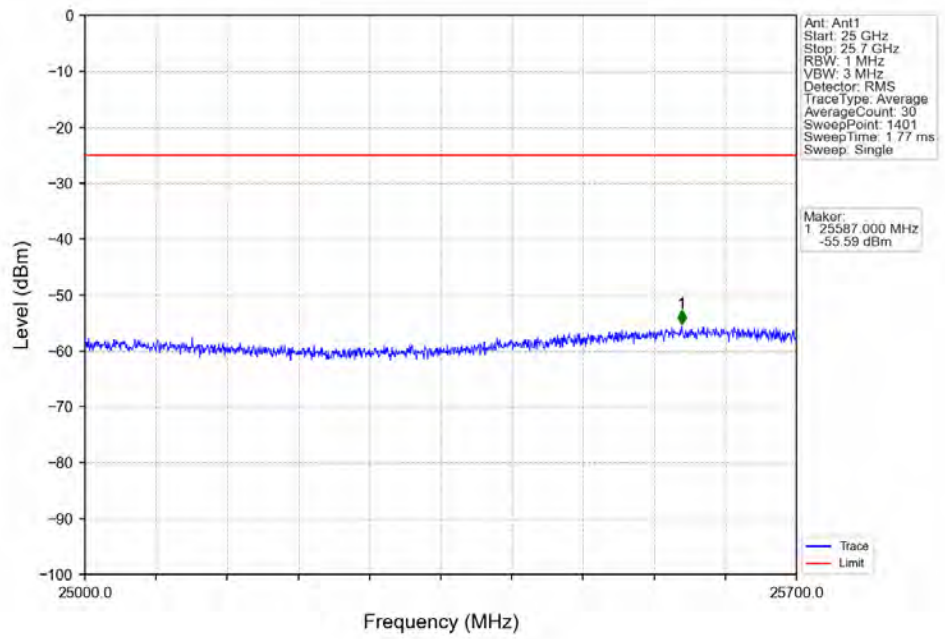

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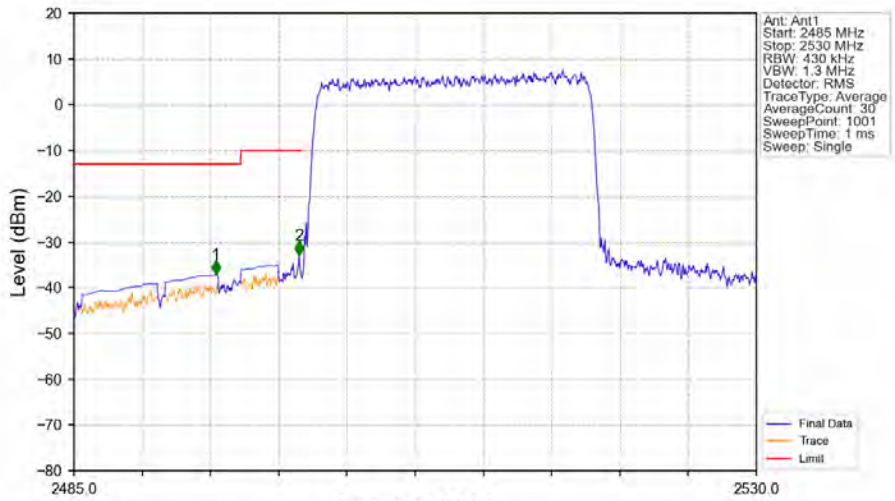
Band7_20MHz_QPSK_LCH_2510MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2494.360	-37.16	-13	Pass
2499	2500	0.43	/	2	2499.850	-32.90	-10	Pass
2500	2530	0.43	/	/	/	/	/	/

Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV

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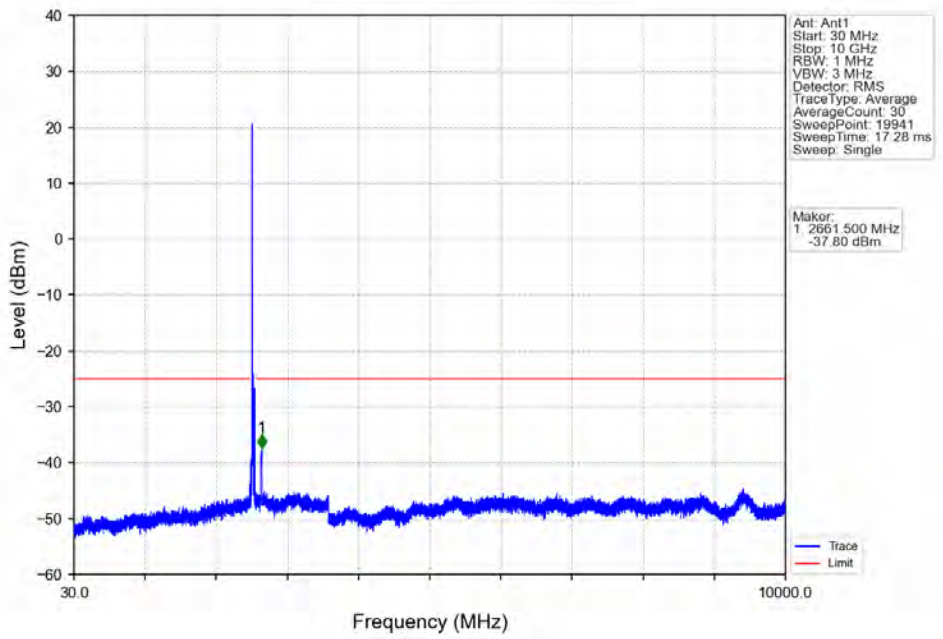

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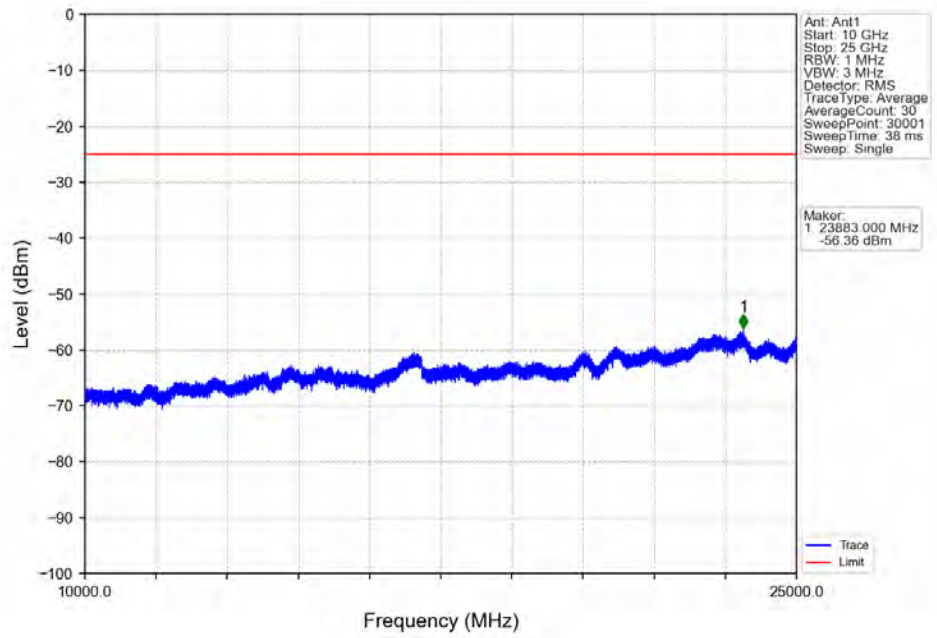

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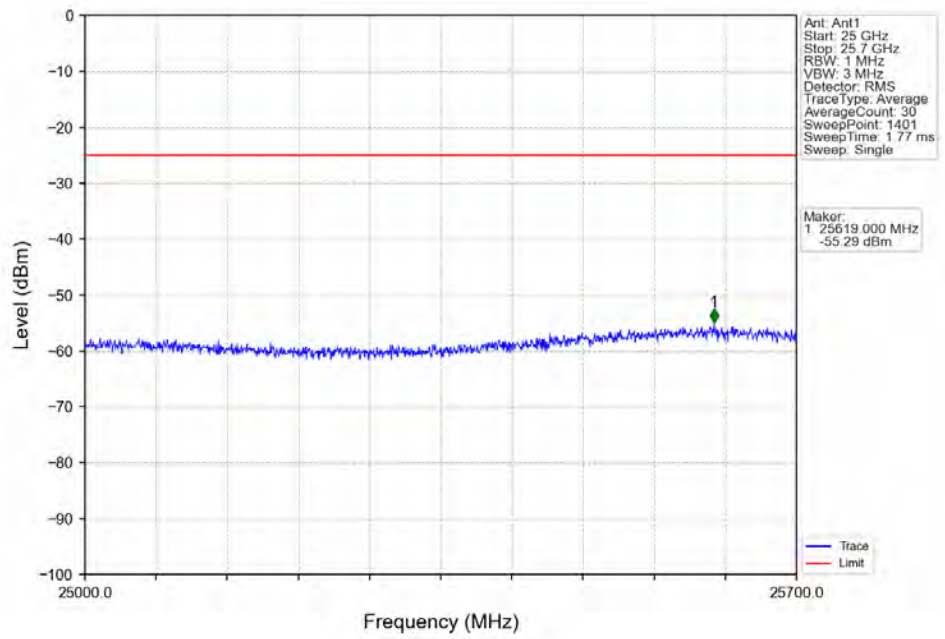

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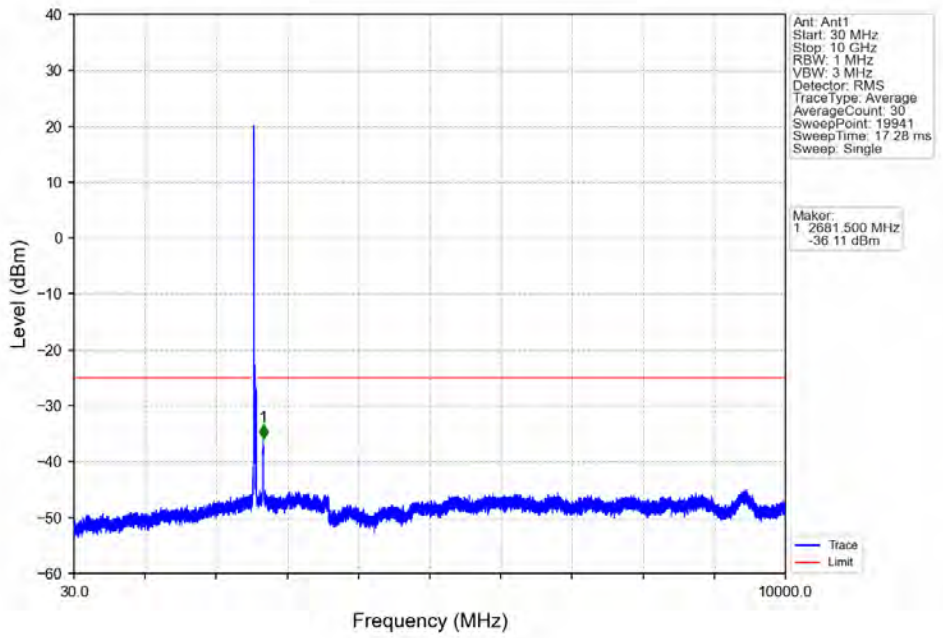
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV

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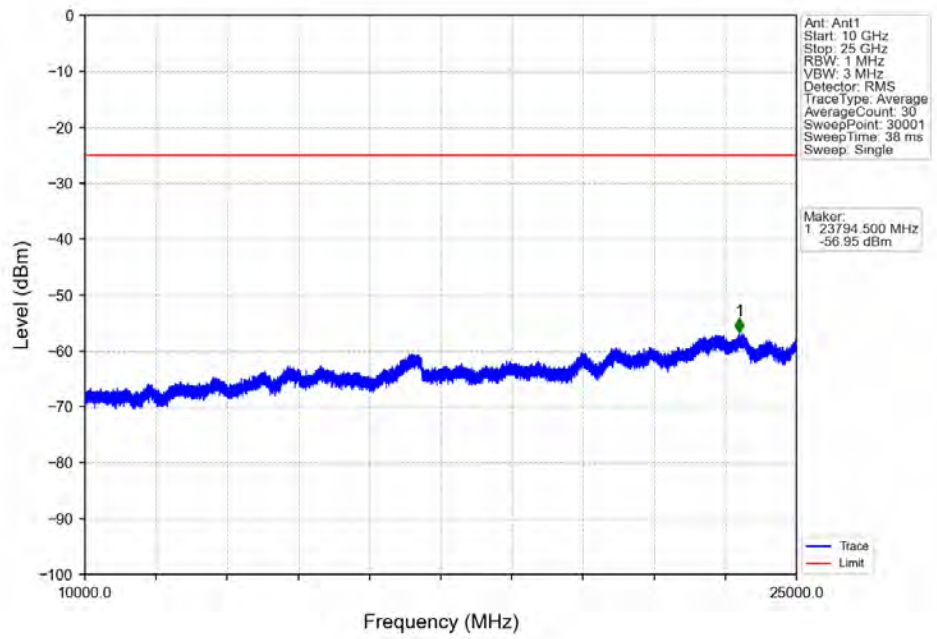

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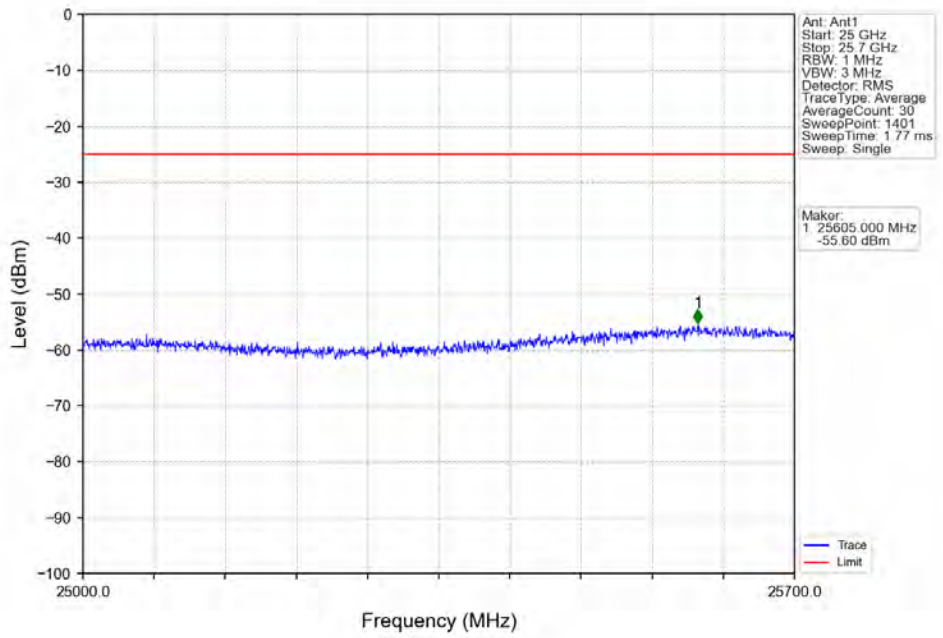

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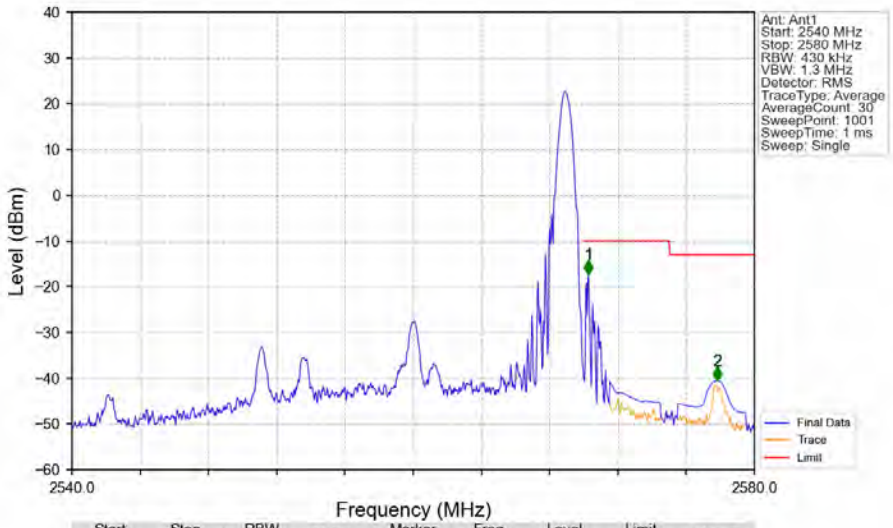

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2540	2570	0.43	/	/	/	/	/	/
2570	2571	0.43	/	1	2570.280	-17.33	-10	Pass
2571	2580	1	CHP	2	2577.840	-40.60	-13	Pass

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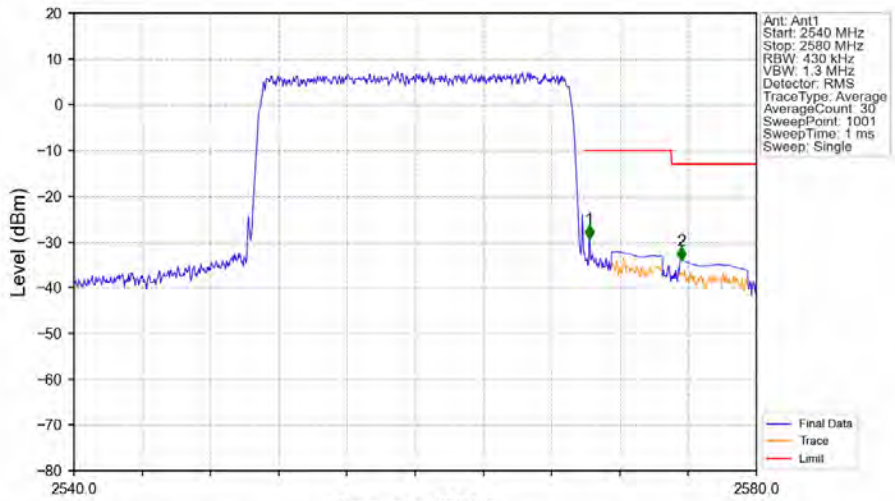

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2540	2570	0.43	/	/	/	/	/	/
2570	2571	0.43	/	1	2570.200	-29.44	-10	Pass
2571	2580	1	CHP	2	2575.600	-34.16	-13	Pass

Band7_20MHz_16QAM_LCH_2510MHz_RB_1_0_NTNV

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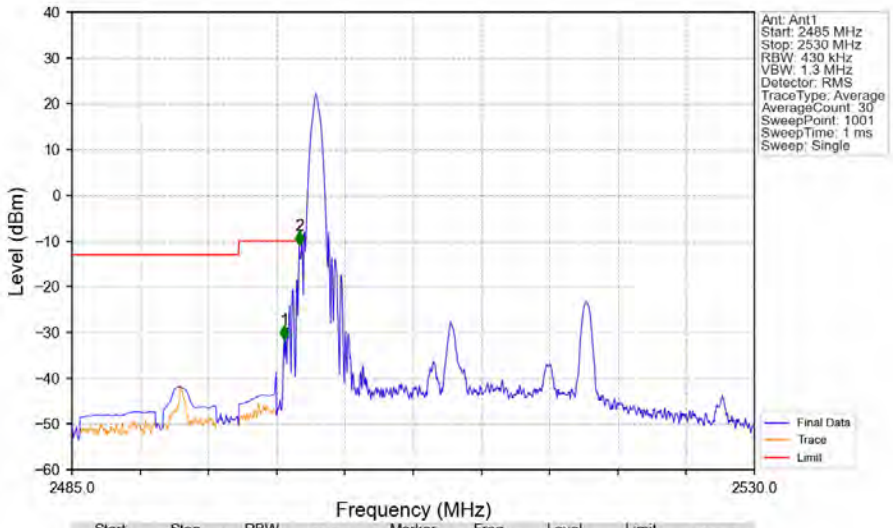

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2498.995	-31.57	-10	Pass
2499	2500	0.43	/	2	2499.985	-10.99	-10	Pass
2500	2530	0.43	/	/	/	/	/	/

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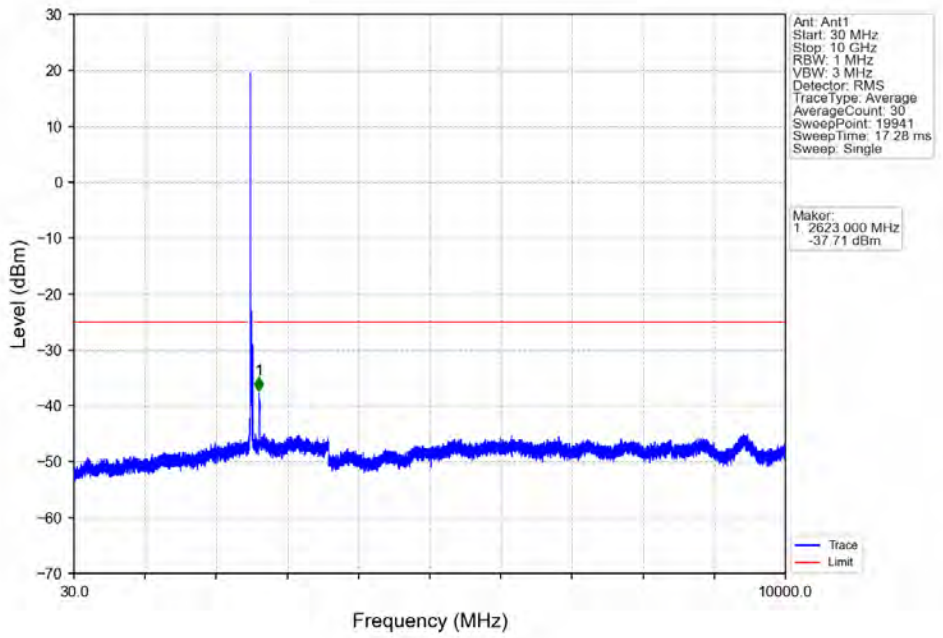

Band7_20MHz_16QAM_LCH_2510MHz_RB_1_0_NTNV

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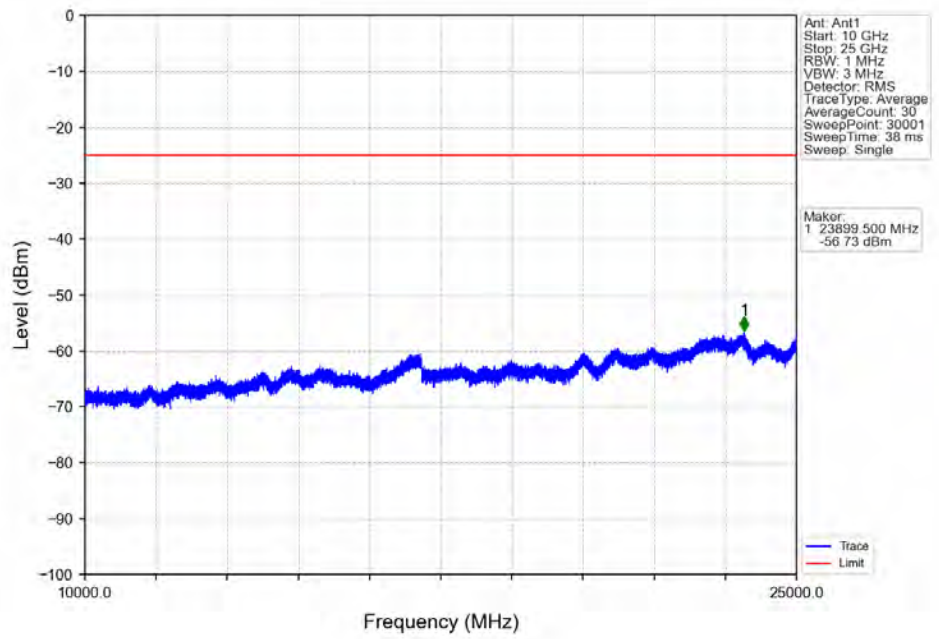

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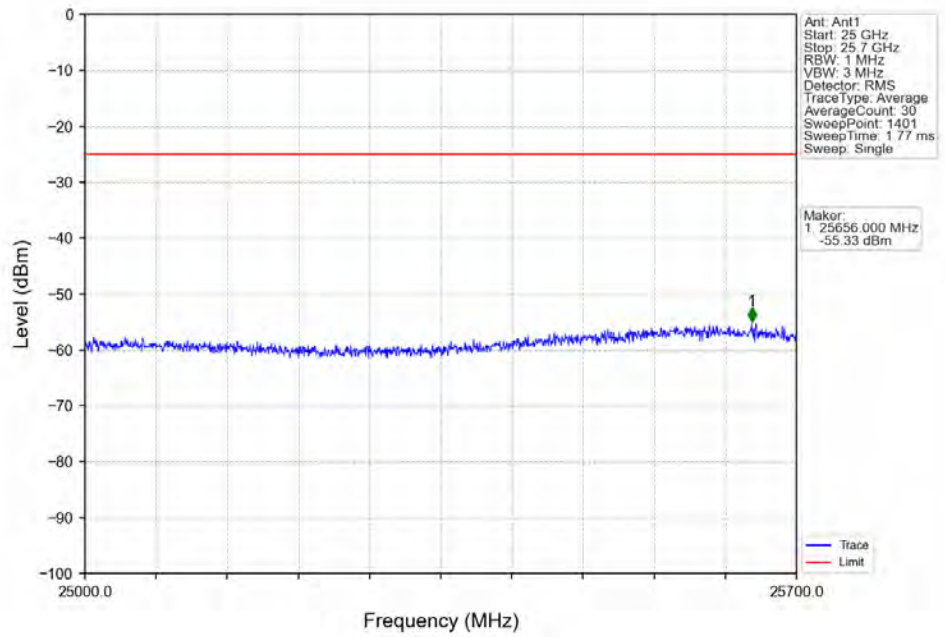
Band7_20MHz_16QAM_LCH_2510MHz_RB_1_0_NTNV



Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV

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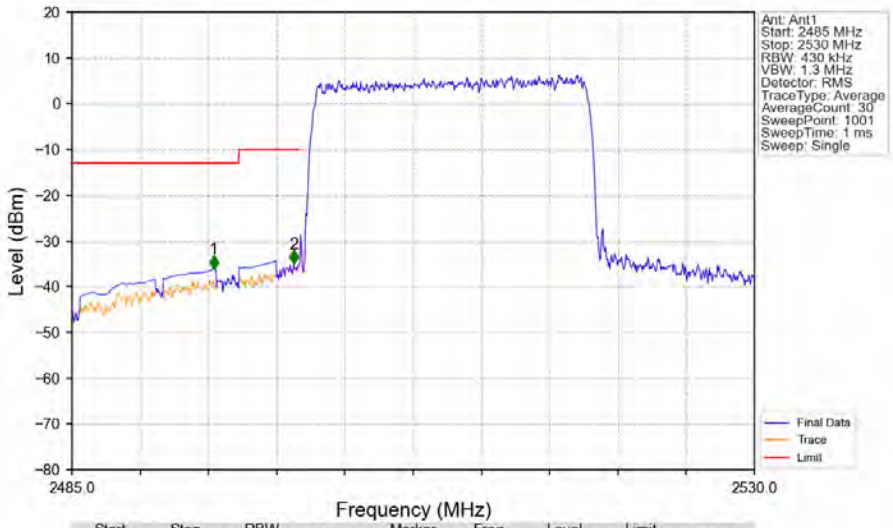

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	1	CHP	1	2494.360	-36.17	-13	Pass
2499	2500	0.43	/	2	2499.625	-35.02	-10	Pass
2500	2530	0.43	/	/	/	/	/	/

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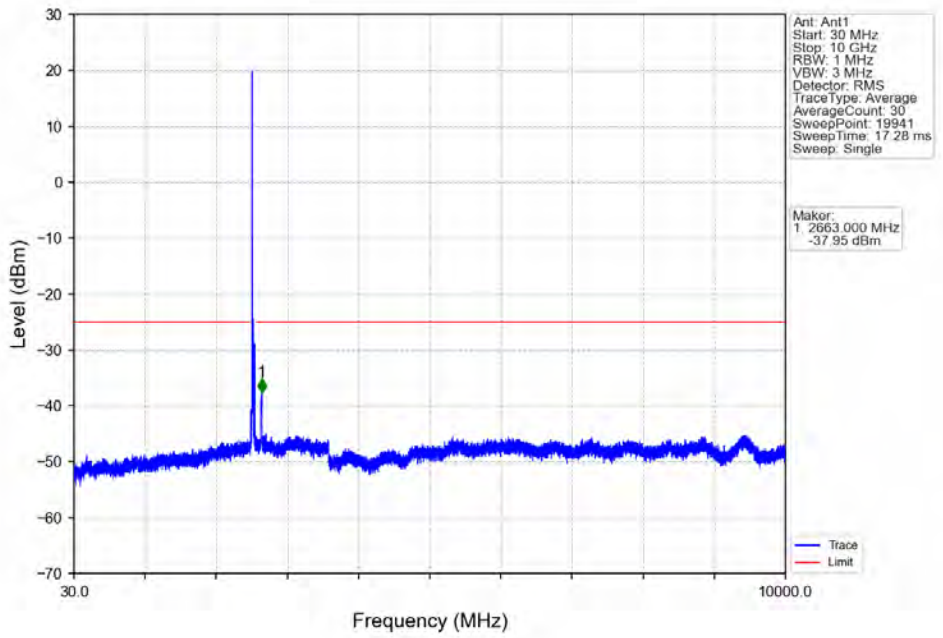

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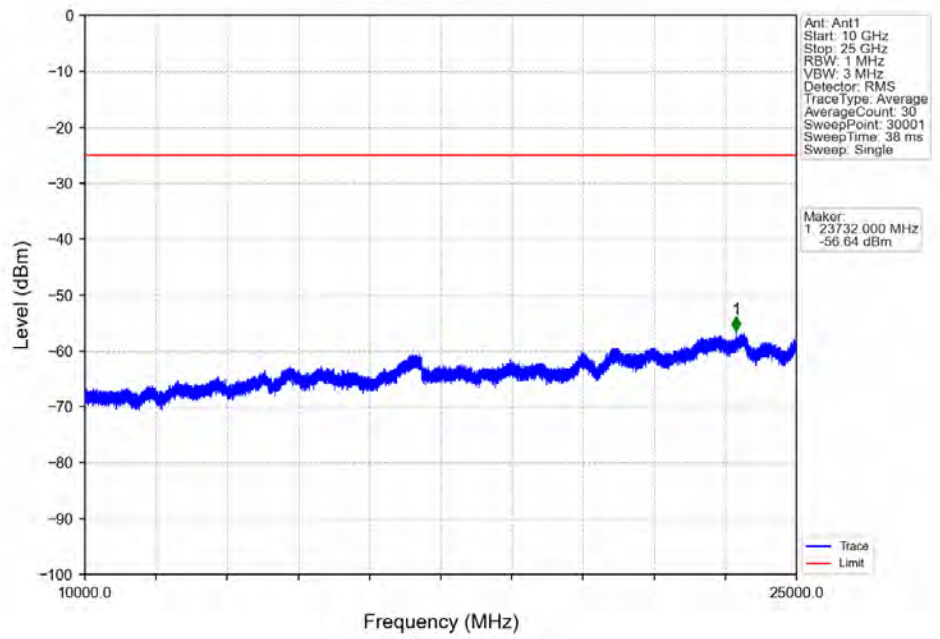

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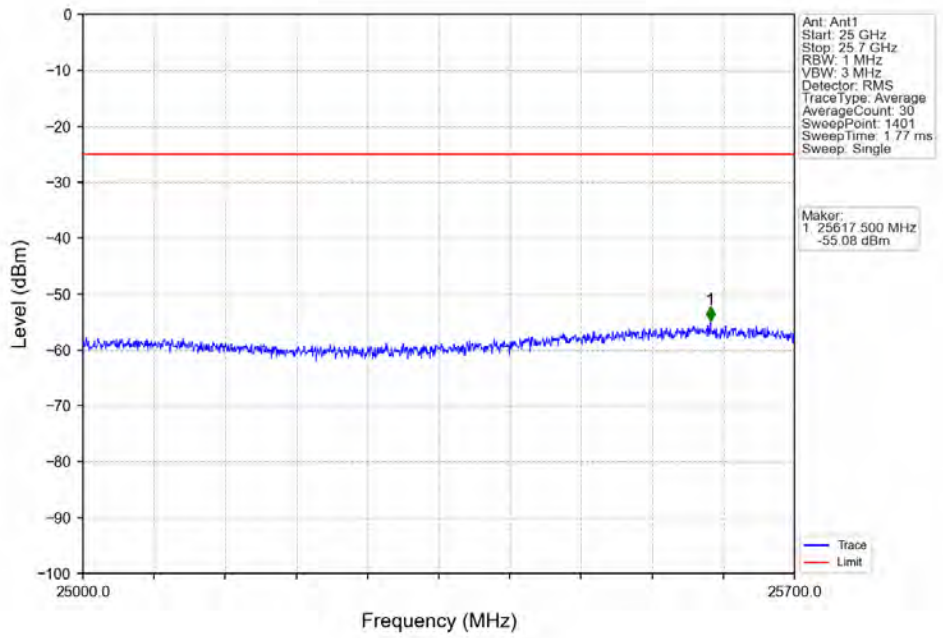

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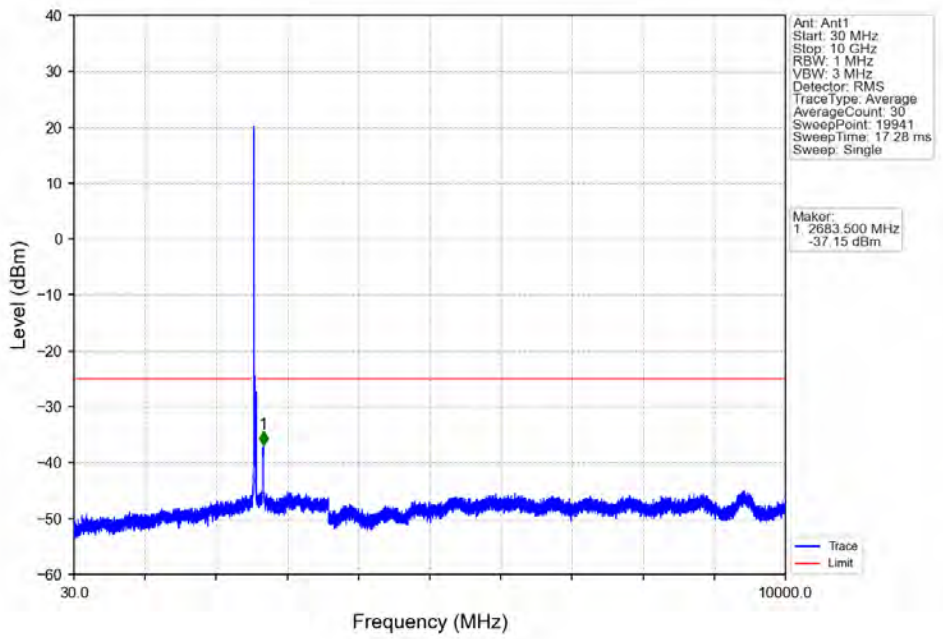

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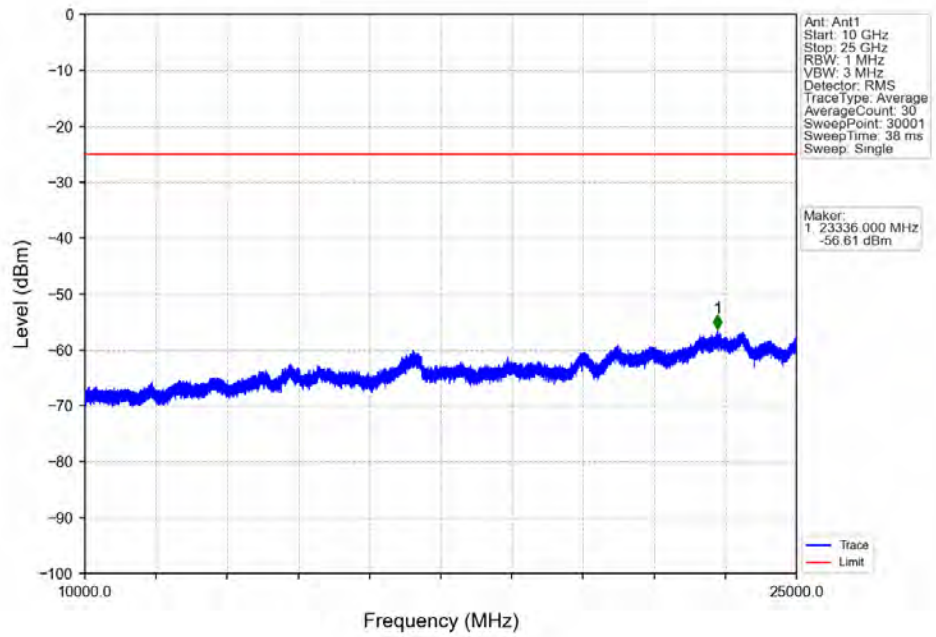

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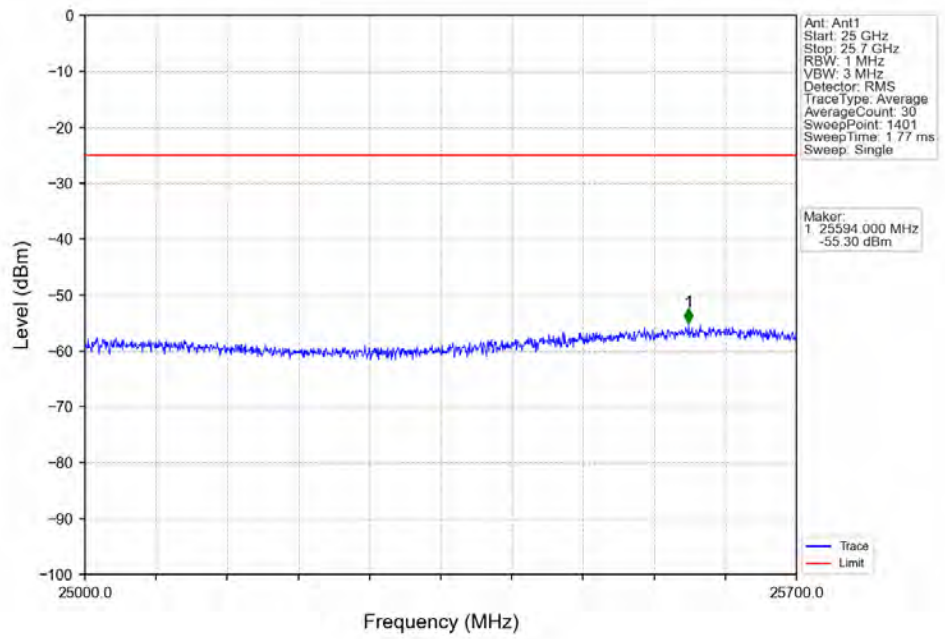

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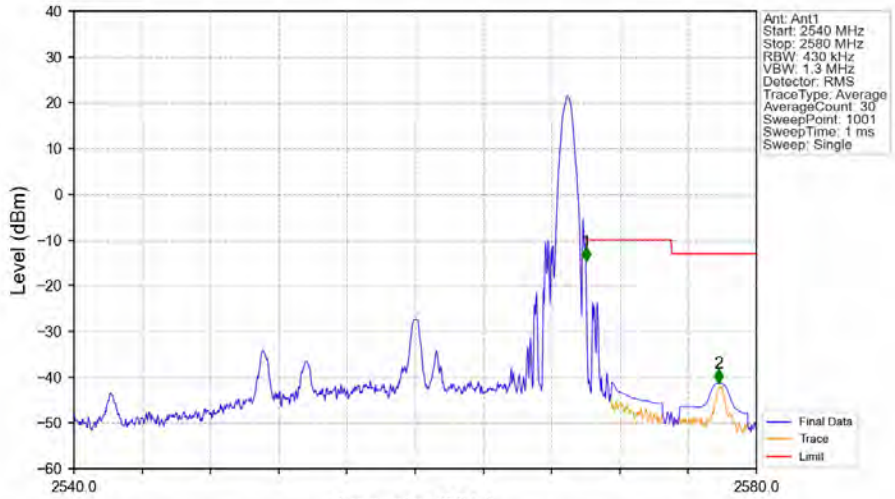

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2540	2570	0.43	/	/	/	/	/	/
2570	2571	0.43	/	1	2570.000	-14.73	-10	Pass
2571	2580	1	CHP	2	2577.800	-41.32	-13	Pass

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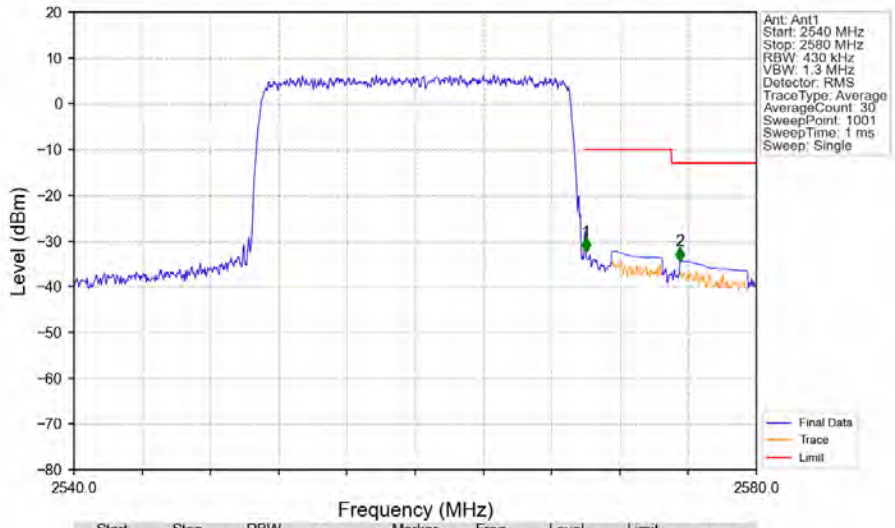

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2540	2570	0.43	/	/	/	/	/	/
2570	2571	0.43	/	1	2570.000	-32.45	-10	Pass
2571	2580	1	CHP	2	2575.520	-34.41	-13	Pass

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6. Field Strength of Spurious Radiation

Test Band = LTE_7 _TM1
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1483.5	35.39	-19.66	25.03	-54.50	-25.00	29.50	Horizontal
2	5002	50.82	-42.72	31.22	-55.94	-25.00	30.94	Horizontal
3	5524.5	49.77	-41.75	32.30	-54.94	-25.00	29.94	Horizontal
4	7394.5	44.00	-38.31	36.68	-52.89	-25.00	27.89	Horizontal
5	11098.5	43.19	-37.58	40.20	-49.45	-25.00	24.45	Horizontal
6	16402	40.44	-34.84	38.81	-50.85	-25.00	25.85	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1641.5	35.41	-19.11	25.43	-53.53	-25.00	28.53	Vertical
2	5524.5	49.45	-41.75	32.30	-55.26	-25.00	30.26	Vertical
3	7503	50.65	-38.31	36.87	-46.05	-25.00	21.05	Vertical
4	9885	41.72	-35.08	38.48	-50.14	-25.00	25.14	Vertical
5	13351	42.06	-38.54	39.75	-51.99	-25.00	26.99	Vertical
6	16407	40.37	-34.88	38.84	-50.93	-25.00	25.93	Vertical

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Test Band = LTE_7 _TM1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1379.5	35.31	-19.99	24.98	-54.96	-25.00	29.96	Horizontal
2	5052	47.06	-42.62	31.60	-59.22	-25.00	34.22	Horizontal
3	5524.5	49.75	-41.75	32.30	-54.96	-25.00	29.96	Horizontal
4	7315.5	42.42	-38.79	36.43	-55.20	-25.00	30.20	Horizontal
5	11096.5	42.69	-37.57	40.20	-49.94	-25.00	24.94	Horizontal
6	16391.5	39.74	-34.87	38.77	-51.62	-25.00	26.62	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1454	35.08	-19.65	25.27	-54.56	-25.00	29.56	Vertical
2	3635	47.41	-44.41	29.18	-63.08	-25.00	38.08	Vertical
3	5524.5	50.03	-41.75	32.30	-54.68	-25.00	29.68	Vertical
4	7404.5	42.81	-38.28	36.71	-54.02	-25.00	29.02	Vertical
5	10654.5	42.10	-37.78	39.41	-51.53	-25.00	26.53	Vertical
6	16390.5	39.41	-34.87	38.77	-51.95	-25.00	26.95	Vertical

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Member of the SGS Group (SGS SA)

Test Band = LTE_7 _TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1600.5	35.32	-19.20	25.10	-54.04	-25.00	29.04	Horizontal
2	5102	47.57	-42.52	31.51	-58.70	-25.00	33.70	Horizontal
3	5524.5	48.96	-41.75	32.30	-55.75	-25.00	30.75	Horizontal
4	7421.5	42.89	-38.28	36.74	-53.91	-25.00	28.91	Horizontal
5	11092	42.19	-37.54	40.19	-50.42	-25.00	25.42	Horizontal
6	16377	39.23	-34.95	38.73	-52.25	-25.00	27.25	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1470.5	35.26	-19.71	25.14	-54.57	-25.00	29.57	Vertical
2	5102	46.84	-42.52	31.51	-59.43	-25.00	34.43	Vertical
3	5524.5	50.45	-41.75	32.30	-54.26	-25.00	29.26	Vertical
4	7372	43.08	-38.45	36.59	-54.04	-25.00	29.04	Vertical
5	11021.5	41.14	-37.11	40.12	-51.11	-25.00	26.11	Vertical
6	16490.5	38.84	-35.54	39.25	-52.71	-25.00	27.71	Vertical

Remark:
1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier (dB)
Level = Reading Level + AF + Factor -95.26
Margin = Limit – Level

---End of Attachment---

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