

Appendix I for KSCR220500071003-LTE B40b

1. Effective (Isotropic) Radiated Power Output Data

1.1 B40b_5MHz_EIRP

1.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2352.5	1	0	22.25	0.84	23.09	<=23.98	Pass	
			13	22.43	0.84	23.27	<=23.98	Pass	
			24	22.36	0.84	23.20	<=23.98	Pass	
		12	0	21.37	0.84	22.21	<=23.98	Pass	
			6	21.34	0.84	22.18	<=23.98	Pass	
			13	21.47	0.84	22.31	<=23.98	Pass	
		25	0	21.36	0.84	22.20	<=23.98	Pass	
			1	0	22.01	0.84	22.85	<=23.98	Pass
				13	22.21	0.84	23.05	<=23.98	Pass
	24	22.33		0.84	23.17	<=23.98	Pass		
	2355	12	0	21.28	0.84	22.12	<=23.98	Pass	
			6	21.28	0.84	22.12	<=23.98	Pass	
			13	21.39	0.84	22.23	<=23.98	Pass	
		25	0	21.27	0.84	22.11	<=23.98	Pass	
			1	0	22.23	0.84	23.07	<=23.98	Pass
				13	22.43	0.84	23.27	<=23.98	Pass
	24	22.27		0.84	23.11	<=23.98	Pass		
	2357.5	12	0	21.31	0.84	22.15	<=23.98	Pass	
			6	21.48	0.84	22.32	<=23.98	Pass	
			13	21.44	0.84	22.28	<=23.98	Pass	
		25	0	21.50	0.84	22.34	<=23.98	Pass	
			1	0	21.13	0.84	21.97	<=23.98	Pass
				13	21.71	0.84	22.55	<=23.98	Pass
	24	21.05		0.84	21.89	<=23.98	Pass		
16QAM	2352.5	12	0	20.12	0.84	20.96	<=23.98	Pass	
			6	20.16	0.84	21.00	<=23.98	Pass	
			13	20.32	0.84	21.16	<=23.98	Pass	
		25	0	20.33	0.84	21.17	<=23.98	Pass	
			1	0	20.86	0.84	21.70	<=23.98	Pass
				13	21.23	0.84	22.07	<=23.98	Pass
	24	21.84		0.84	22.68	<=23.98	Pass		
	2355	12	0	20.22	0.84	21.06	<=23.98	Pass	
			6	20.25	0.84	21.09	<=23.98	Pass	
13			20.36	0.84	21.20	<=23.98	Pass		
2357.5	1	0	20.17	0.84	21.01	<=23.98	Pass		
		0	21.51	0.84	22.35	<=23.98	Pass		
		13	21.18	0.84	22.02	<=23.98	Pass		
			24	21.09	0.84	21.93	<=23.98	Pass	

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		12	0	20.20	0.84	21.04	<=23.98	Pass
			6	20.42	0.84	21.26	<=23.98	Pass
			13	20.30	0.84	21.14	<=23.98	Pass
		25	0	20.48	0.84	21.32	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B40b_10MHz_EIRP

1.2.1 Test Result

Band: 40b / Bandwidth: 10MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2355	1	0	22.24	0.84	23.08	<=23.98	Pass	
			25	22.47	0.84	23.31	<=23.98	Pass	
			49	22.38	0.84	23.22	<=23.98	Pass	
		25	0	21.34	0.84	22.18	<=23.98	Pass	
			13	21.41	0.84	22.25	<=23.98	Pass	
			25	21.61	0.84	22.45	<=23.98	Pass	
		50	0	21.35	0.84	22.19	<=23.98	Pass	
		2355	1	0	22.15	0.84	22.99	<=23.98	Pass
				25	22.58	0.84	23.42	<=23.98	Pass
	49			22.46	0.84	23.30	<=23.98	Pass	
	25		0	21.37	0.84	22.21	<=23.98	Pass	
			13	21.44	0.84	22.28	<=23.98	Pass	
			25	21.54	0.84	22.38	<=23.98	Pass	
	50		0	21.37	0.84	22.21	<=23.98	Pass	
	2355		1	0	22.18	0.84	23.02	<=23.98	Pass
				25	22.49	0.84	23.33	<=23.98	Pass
		49		22.58	0.84	23.42	<=23.98	Pass	
		25	0	21.39	0.84	22.23	<=23.98	Pass	
			13	21.48	0.84	22.32	<=23.98	Pass	
			25	21.57	0.84	22.41	<=23.98	Pass	
	50	0	21.40	0.84	22.24	<=23.98	Pass		
	16QAM	2355	1	0	20.70	0.84	21.54	<=23.98	Pass
				25	21.51	0.84	22.35	<=23.98	Pass
				49	21.90	0.84	22.74	<=23.98	Pass
25			0	20.18	0.84	21.02	<=23.98	Pass	
			13	20.56	0.84	21.40	<=23.98	Pass	
			25	20.53	0.84	21.37	<=23.98	Pass	
50			0	20.34	0.84	21.18	<=23.98	Pass	
2355			1	0	21.52	0.84	22.36	<=23.98	Pass
				25	20.99	0.84	21.83	<=23.98	Pass
		49		21.48	0.84	22.32	<=23.98	Pass	
		25	0	20.47	0.84	21.31	<=23.98	Pass	
			13	20.51	0.84	21.35	<=23.98	Pass	
			25	20.54	0.84	21.38	<=23.98	Pass	
		50	0	20.48	0.84	21.32	<=23.98	Pass	
		2355	1	0	21.58	0.84	22.42	<=23.98	Pass

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		25	25	21.60	0.84	22.44	<=23.98	Pass
			49	21.17	0.84	22.01	<=23.98	Pass
			0	20.36	0.84	21.20	<=23.98	Pass
		50	13	20.45	0.84	21.29	<=23.98	Pass
			25	20.59	0.84	21.43	<=23.98	Pass
			0	20.34	0.84	21.18	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B40b_5MHz

2.1.1 Test Result

Band: 40b / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2352.5	25	0	20	102	14.820	0.0063	-2.5 to 2.5	Pass	
					120	12.059	0.0051	-2.5 to 2.5	Pass	
					138	1.559	0.0007	-2.5 to 2.5	Pass	
				0	120	5.550	0.0024	-2.5 to 2.5	Pass	
					10	120	0.300	0.0001	-2.5 to 2.5	Pass
					30	120	0.944	0.0004	-2.5 to 2.5	Pass
					40	120	10.028	0.0043	-2.5 to 2.5	Pass
					45	120	-0.186	-0.0001	-2.5 to 2.5	Pass
	2355	25	0		20	102	4.992	0.0021	-2.5 to 2.5	Pass
						120	2.804	0.0012	-2.5 to 2.5	Pass
				138		-5.651	-0.0024	-2.5 to 2.5	Pass	
				0	120	4.048	0.0017	-2.5 to 2.5	Pass	
					10	120	-3.519	-0.0015	-2.5 to 2.5	Pass
					30	120	5.465	0.0023	-2.5 to 2.5	Pass
					40	120	4.048	0.0017	-2.5 to 2.5	Pass
					45	120	4.392	0.0019	-2.5 to 2.5	Pass
	2357.5	25	0	20	102	6.251	0.0027	-2.5 to 2.5	Pass	
					120	-1.316	-0.0006	-2.5 to 2.5	Pass	
					138	-0.443	-0.0002	-2.5 to 2.5	Pass	
				0	120	3.376	0.0014	-2.5 to 2.5	Pass	
					10	120	5.407	0.0023	-2.5 to 2.5	Pass
					30	120	4.764	0.0020	-2.5 to 2.5	Pass
					40	120	-5.136	-0.0022	-2.5 to 2.5	Pass
					45	120	5.493	0.0023	-2.5 to 2.5	Pass
16QAM	2352.5	25	0	20	102	9.313	0.0040	-2.5 to 2.5	Pass	
					120	9.427	0.0040	-2.5 to 2.5	Pass	
					138	1.273	0.0005	-2.5 to 2.5	Pass	
				0	120	9.627	0.0041	-2.5 to 2.5	Pass	
					10	120	1.760	0.0007	-2.5 to 2.5	Pass
					30	120	-1.874	-0.0008	-2.5 to 2.5	Pass
					40	120	0.315	0.0001	-2.5 to 2.5	Pass

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	2355	25	0	45	120	9.384	0.0040	-2.5 to 2.5	Pass
				20	102	2.832	0.0012	-2.5 to 2.5	Pass
					120	5.164	0.0022	-2.5 to 2.5	Pass
					138	2.003	0.0009	-2.5 to 2.5	Pass
					0	120	-4.792	-0.0020	-2.5 to 2.5
				10	120	-3.619	-0.0015	-2.5 to 2.5	Pass
				30	120	0.901	0.0004	-2.5 to 2.5	Pass
				40	120	-6.652	-0.0028	-2.5 to 2.5	Pass
	45	120	-7.210	-0.0031	-2.5 to 2.5	Pass			
	2357.5	25	0	20	102	3.362	0.0014	-2.5 to 2.5	Pass
					120	0.057	0.0000	-2.5 to 2.5	Pass
					138	2.174	0.0009	-2.5 to 2.5	Pass
					0	120	-1.445	-0.0006	-2.5 to 2.5
				10	120	-1.631	-0.0007	-2.5 to 2.5	Pass
				30	120	-0.930	-0.0004	-2.5 to 2.5	Pass
				40	120	3.862	0.0016	-2.5 to 2.5	Pass
45				120	4.148	0.0018	-2.5 to 2.5	Pass	

2.2 B40b_10MHz

2.2.1 Test Result

Band: 40b / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2355	50	0	20	102	0.186	0.0001	-2.5 to 2.5	Pass
					120	-6.781	-0.0029	-2.5 to 2.5	Pass
					138	-4.478	-0.0019	-2.5 to 2.5	Pass
					0	120	-1.802	-0.0008	-2.5 to 2.5
				10	120	-1.645	-0.0007	-2.5 to 2.5	Pass
				30	120	-7.281	-0.0031	-2.5 to 2.5	Pass
				40	120	-6.180	-0.0026	-2.5 to 2.5	Pass
				45	120	-6.866	-0.0029	-2.5 to 2.5	Pass
	2355	50	0	20	102	-2.189	-0.0009	-2.5 to 2.5	Pass
					120	-1.144	-0.0005	-2.5 to 2.5	Pass
					138	-1.302	-0.0006	-2.5 to 2.5	Pass
					0	120	-1.330	-0.0006	-2.5 to 2.5
				10	120	-1.688	-0.0007	-2.5 to 2.5	Pass
				30	120	-3.777	-0.0016	-2.5 to 2.5	Pass
				40	120	-7.553	-0.0032	-2.5 to 2.5	Pass
				45	120	-4.663	-0.0020	-2.5 to 2.5	Pass
	2355	50	0	20	102	-3.719	-0.0016	-2.5 to 2.5	Pass
					120	-2.418	-0.0010	-2.5 to 2.5	Pass
					138	-4.306	-0.0018	-2.5 to 2.5	Pass
					0	120	-1.202	-0.0005	-2.5 to 2.5
				10	120	0.143	0.0001	-2.5 to 2.5	Pass
				30	120	-2.947	-0.0013	-2.5 to 2.5	Pass
				40	120	-4.249	-0.0018	-2.5 to 2.5	Pass
				45	120	-2.904	-0.0012	-2.5 to 2.5	Pass

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16QAM	2355	50	0	20	102	-1.488	-0.0006	-2.5 to 2.5	Pass	
					120	-2.232	-0.0009	-2.5 to 2.5	Pass	
					138	-1.059	-0.0004	-2.5 to 2.5	Pass	
				0	120	-0.601	-0.0003	-2.5 to 2.5	Pass	
					10	120	-3.419	-0.0015	-2.5 to 2.5	Pass
					30	120	-2.418	-0.0010	-2.5 to 2.5	Pass
					40	120	-4.807	-0.0020	-2.5 to 2.5	Pass
					45	120	-0.629	-0.0003	-2.5 to 2.5	Pass
	2355	50	0	20	102	-4.292	-0.0018	-2.5 to 2.5	Pass	
					120	-4.835	-0.0021	-2.5 to 2.5	Pass	
					138	-2.718	-0.0012	-2.5 to 2.5	Pass	
				0	120	-0.901	-0.0004	-2.5 to 2.5	Pass	
					10	120	-2.761	-0.0012	-2.5 to 2.5	Pass
					30	120	-0.515	-0.0002	-2.5 to 2.5	Pass
					40	120	-3.633	-0.0015	-2.5 to 2.5	Pass
					45	120	-4.492	-0.0019	-2.5 to 2.5	Pass
	2355	50	0	20	102	-3.033	-0.0013	-2.5 to 2.5	Pass	
					120	0.172	0.0001	-2.5 to 2.5	Pass	
					138	-2.446	-0.0010	-2.5 to 2.5	Pass	
				0	120	-2.046	-0.0009	-2.5 to 2.5	Pass	
					10	120	-2.775	-0.0012	-2.5 to 2.5	Pass
					30	120	-4.106	-0.0017	-2.5 to 2.5	Pass
					40	120	-2.961	-0.0013	-2.5 to 2.5	Pass
					45	120	-2.003	-0.0009	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 B40b_5MHz

3.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	25	0	Refer To Test Graph		Pass
16QAM	2355	25	0	Refer To Test Graph		Pass



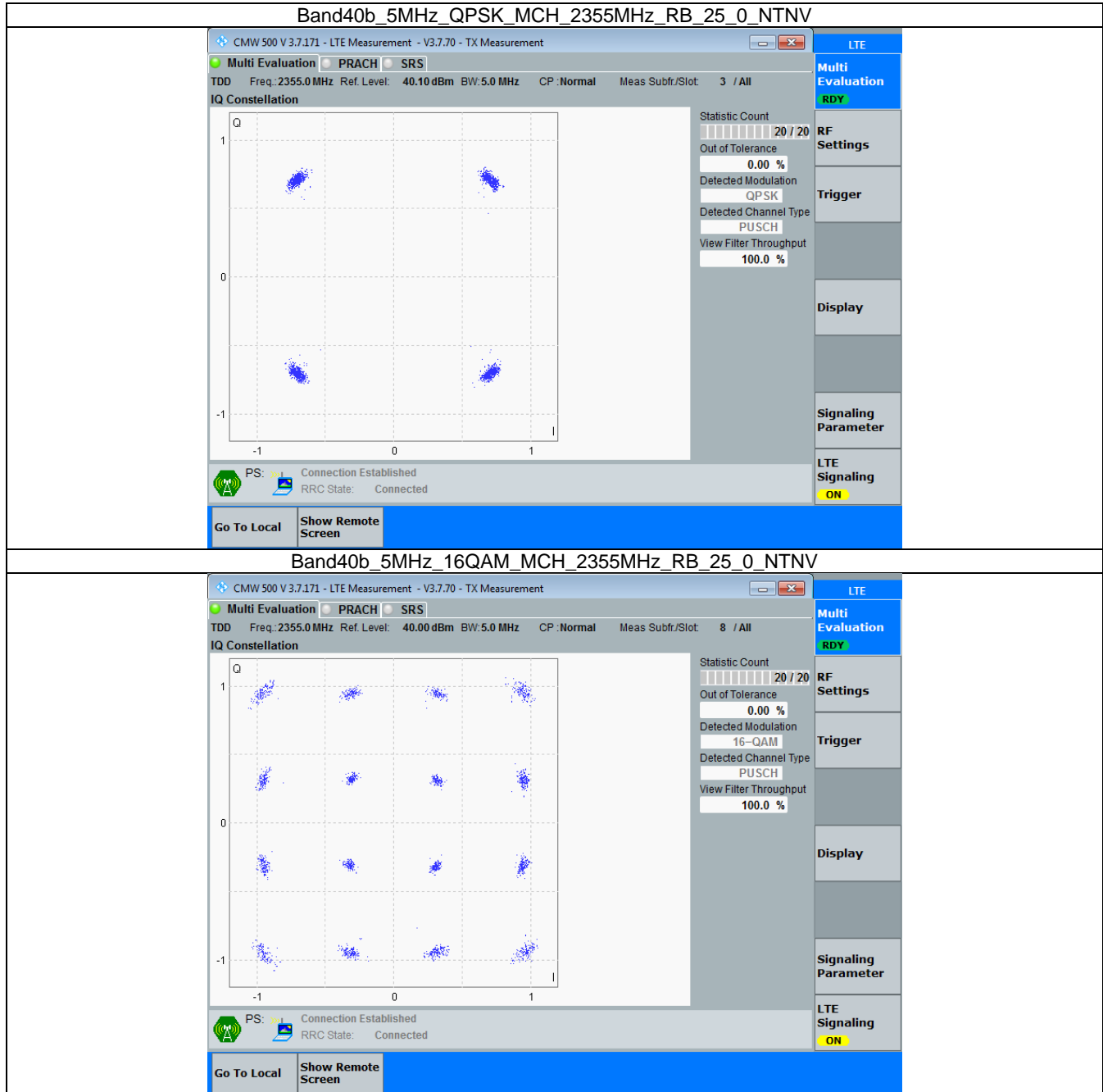
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3.1.2 Test Graph



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3.2 B40b_10MHz

3.2.1 Test Result

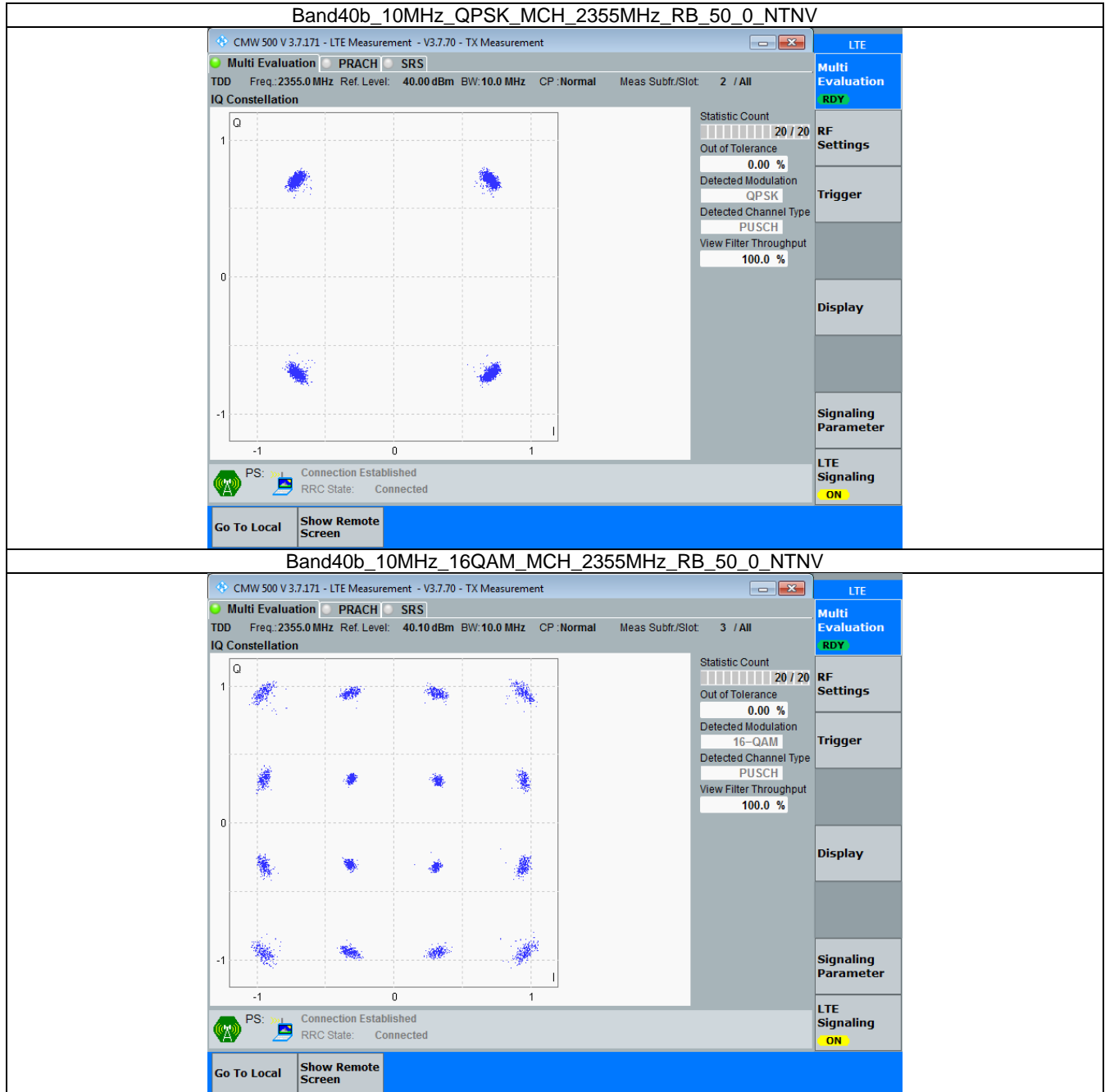
Band: 40b / Bandwidth: 10MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	50	0	Refer To Test Graph		Pass
16QAM	2355	50	0	Refer To Test Graph		Pass



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3.2.2 Test Graph



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4. 99% & 26dB Bandwidth

4.1 Band40b_OBW

4.1.1 Test Result

Band: 40b / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2352.5	25	0	4.584	Pass
		2355	25	0	4.569	Pass
		2357.5	25	0	4.556	Pass
	16QAM	2352.5	25	0	4.537	Pass
		2355	25	0	4.587	Pass
		2357.5	25	0	4.598	Pass
10	QPSK	2355	50	0	9.063	Pass
		2355	50	0	9.123	Pass
		2355	50	0	9.081	Pass
	16QAM	2355	50	0	9.081	Pass
		2355	50	0	9.033	Pass
		2355	50	0	9.044	Pass

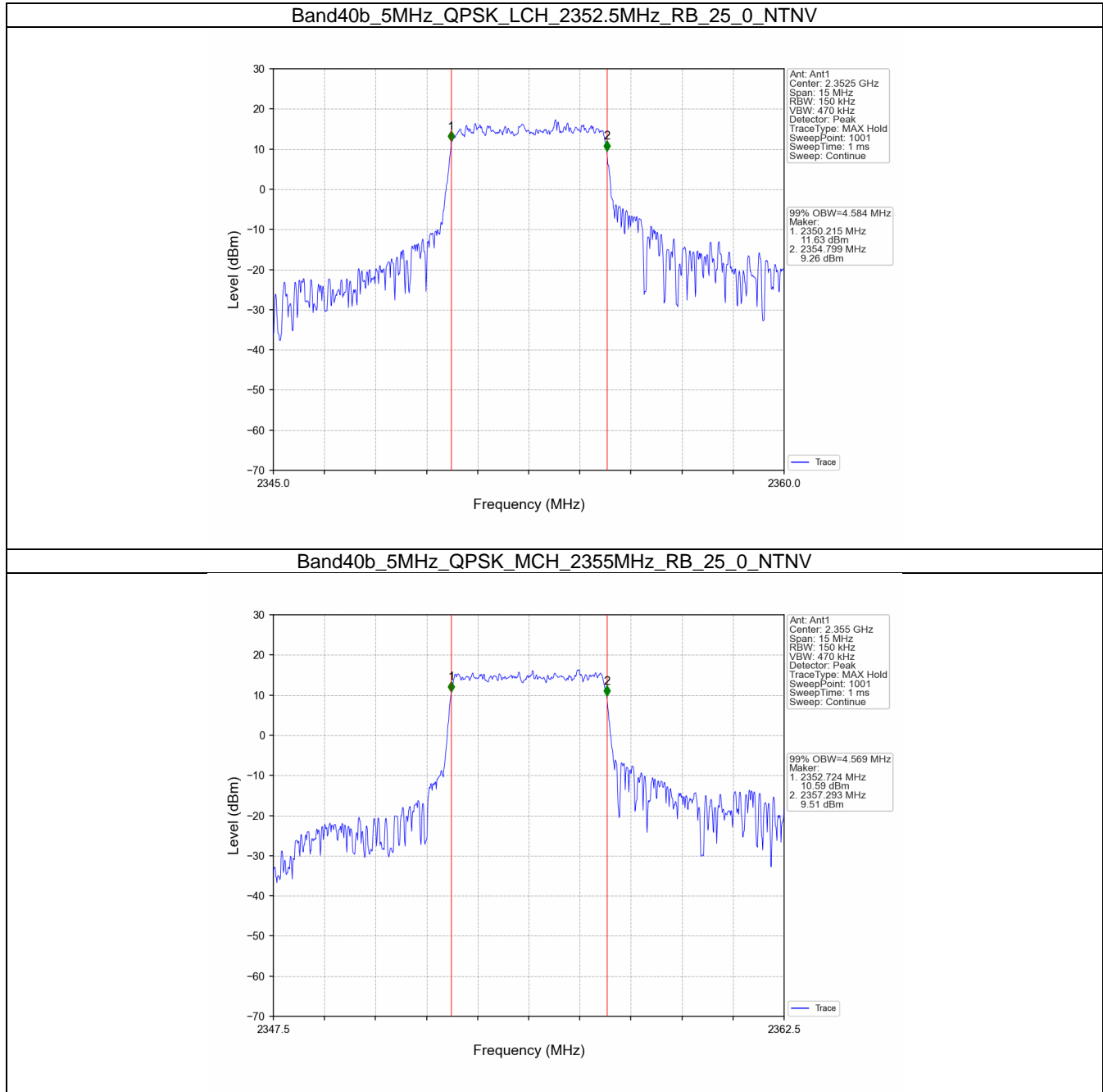


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4.1.2 Test Graph

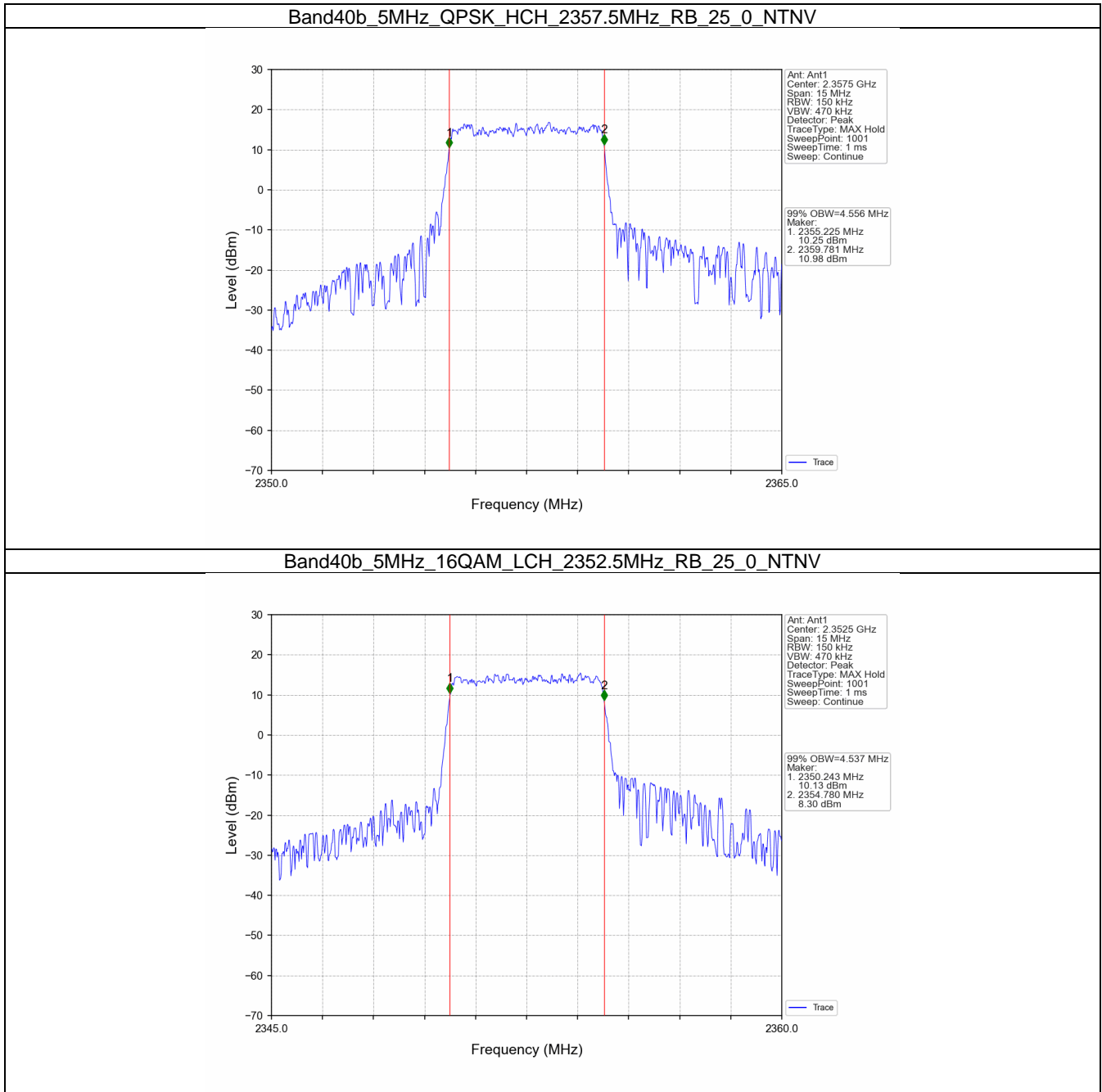


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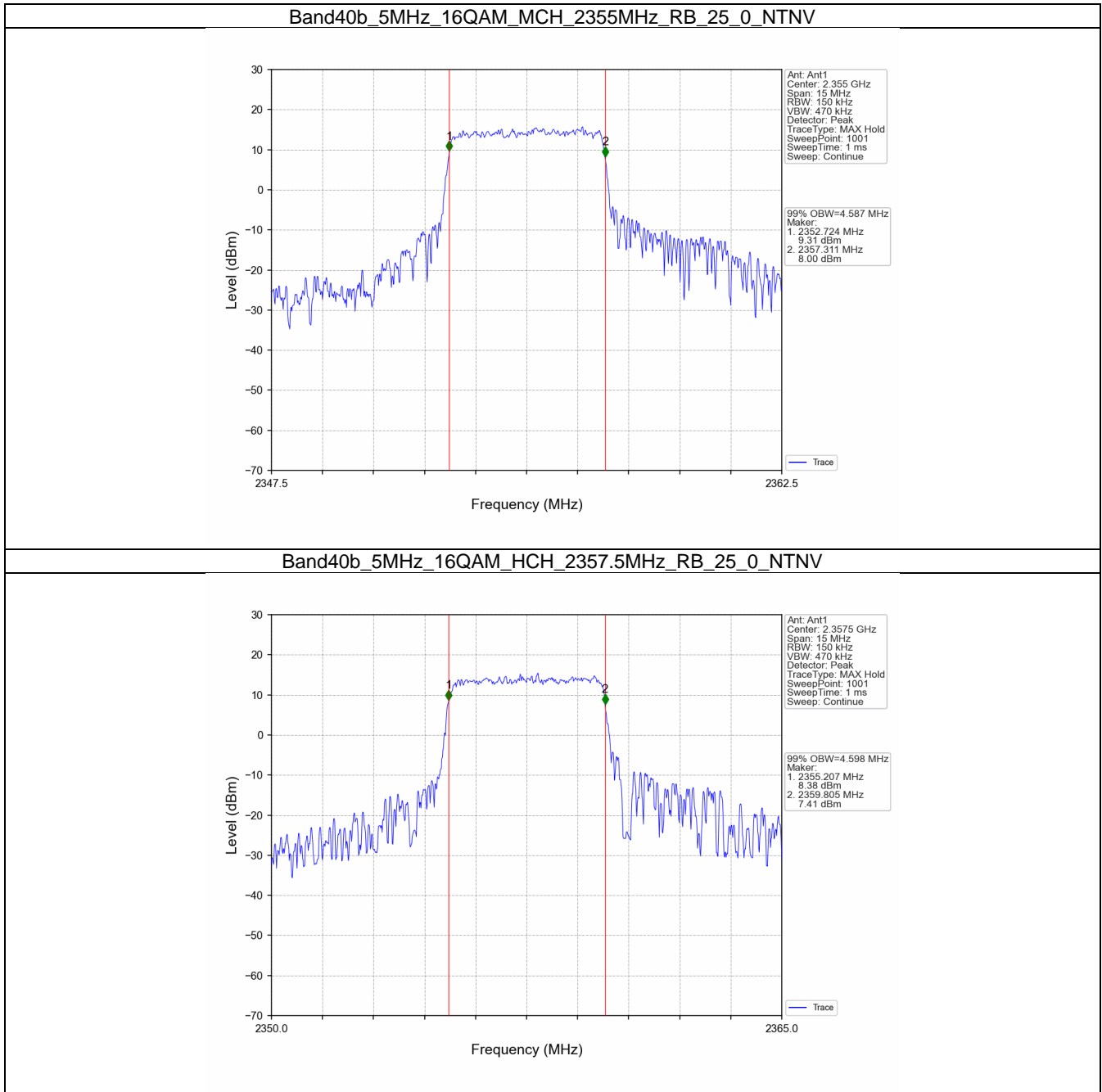
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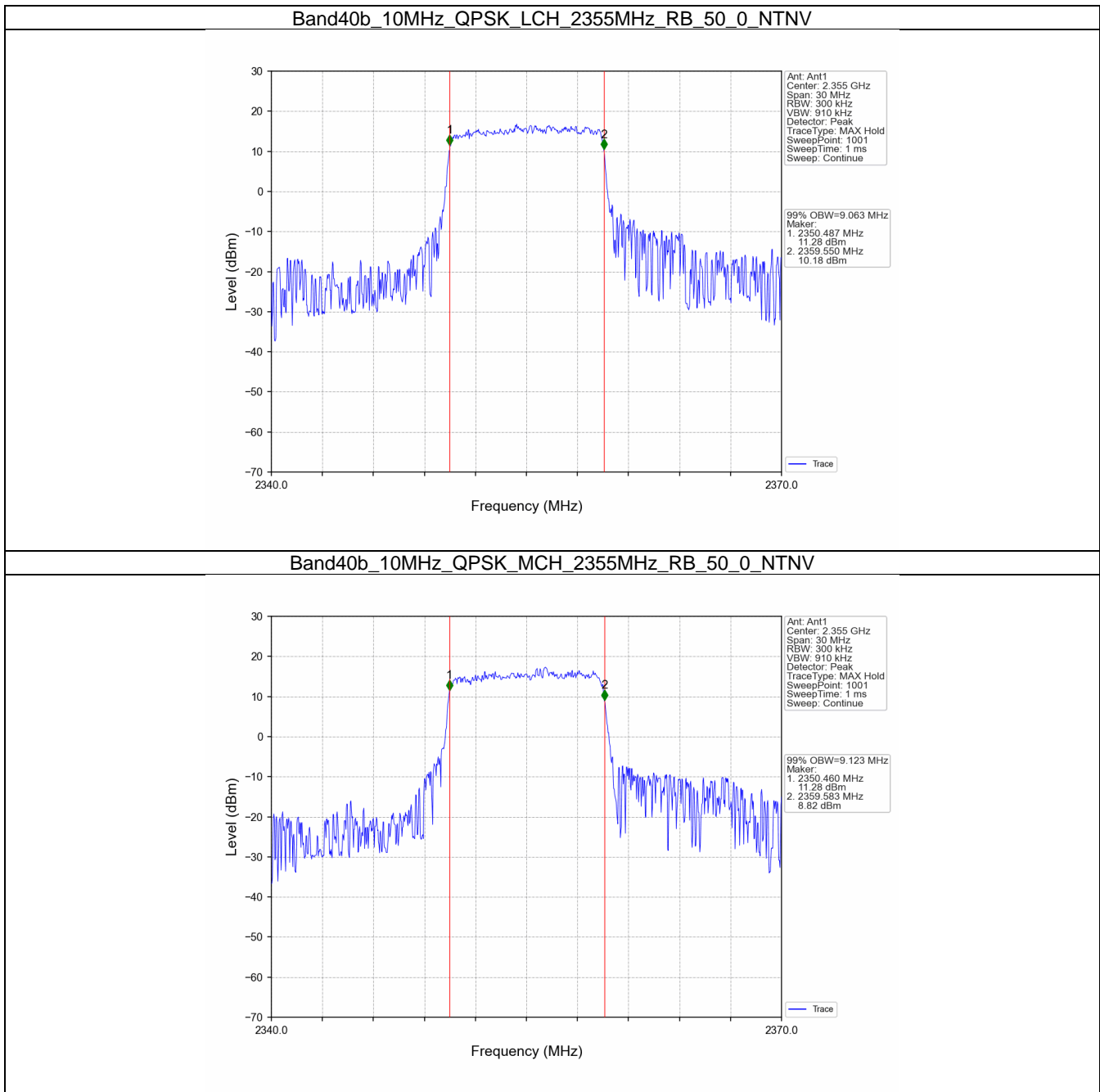
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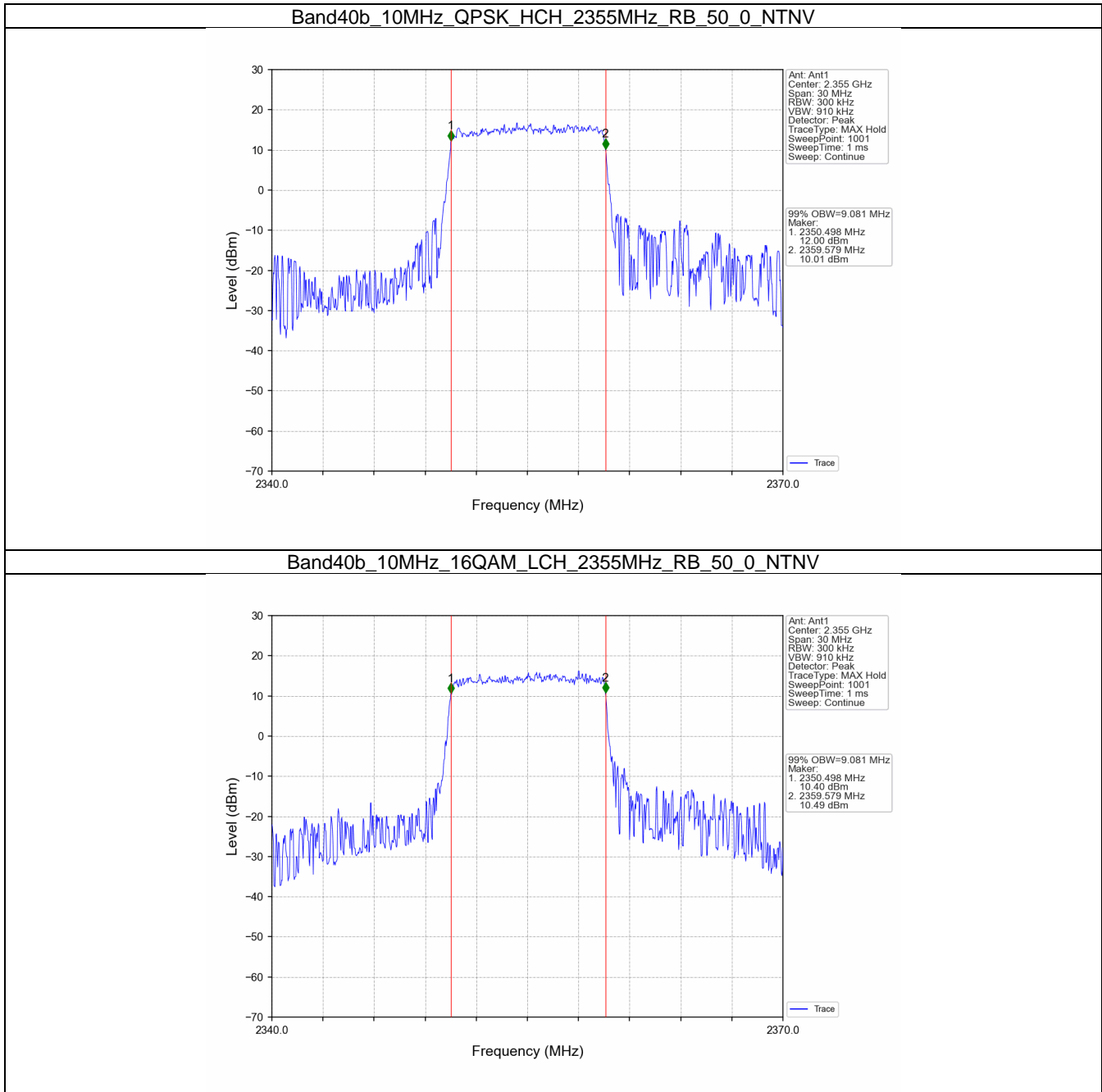
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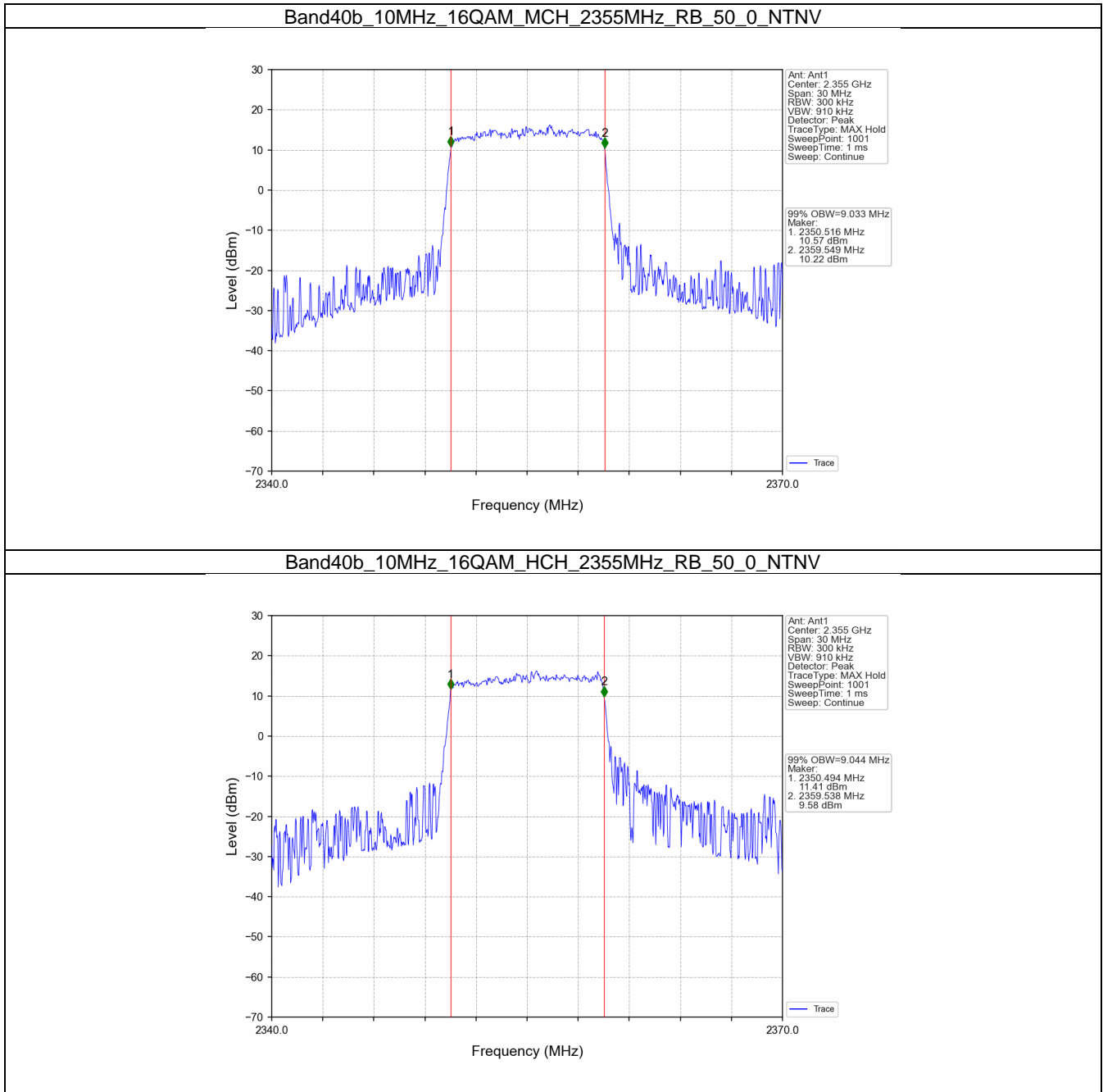
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4.2 Band40b_XDB

4.2.1 Test Result

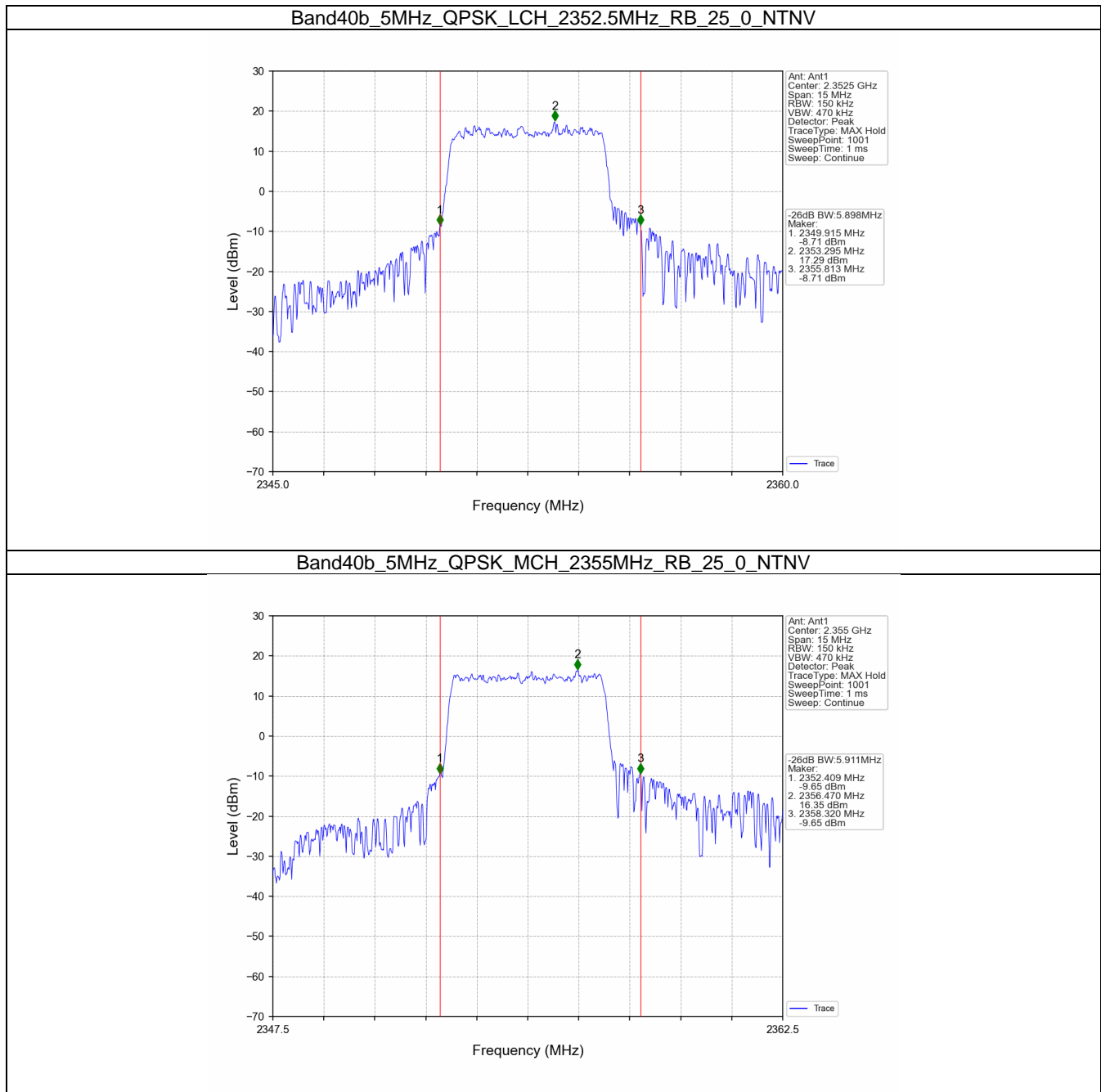
Band: 40b / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2352.5	25	0	5.898	Pass
		2355	25	0	5.911	Pass
		2357.5	25	0	5.902	Pass
	16QAM	2352.5	25	0	5.315	Pass
		2355	25	0	6.891	Pass
		2357.5	25	0	6.172	Pass
10	QPSK	2355	50	0	11.721	Pass
		2355	50	0	11.680	Pass
		2355	50	0	14.934	Pass
	16QAM	2355	50	0	10.681	Pass
		2355	50	0	10.391	Pass
		2355	50	0	11.512	Pass



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4.2.2 Test Graph

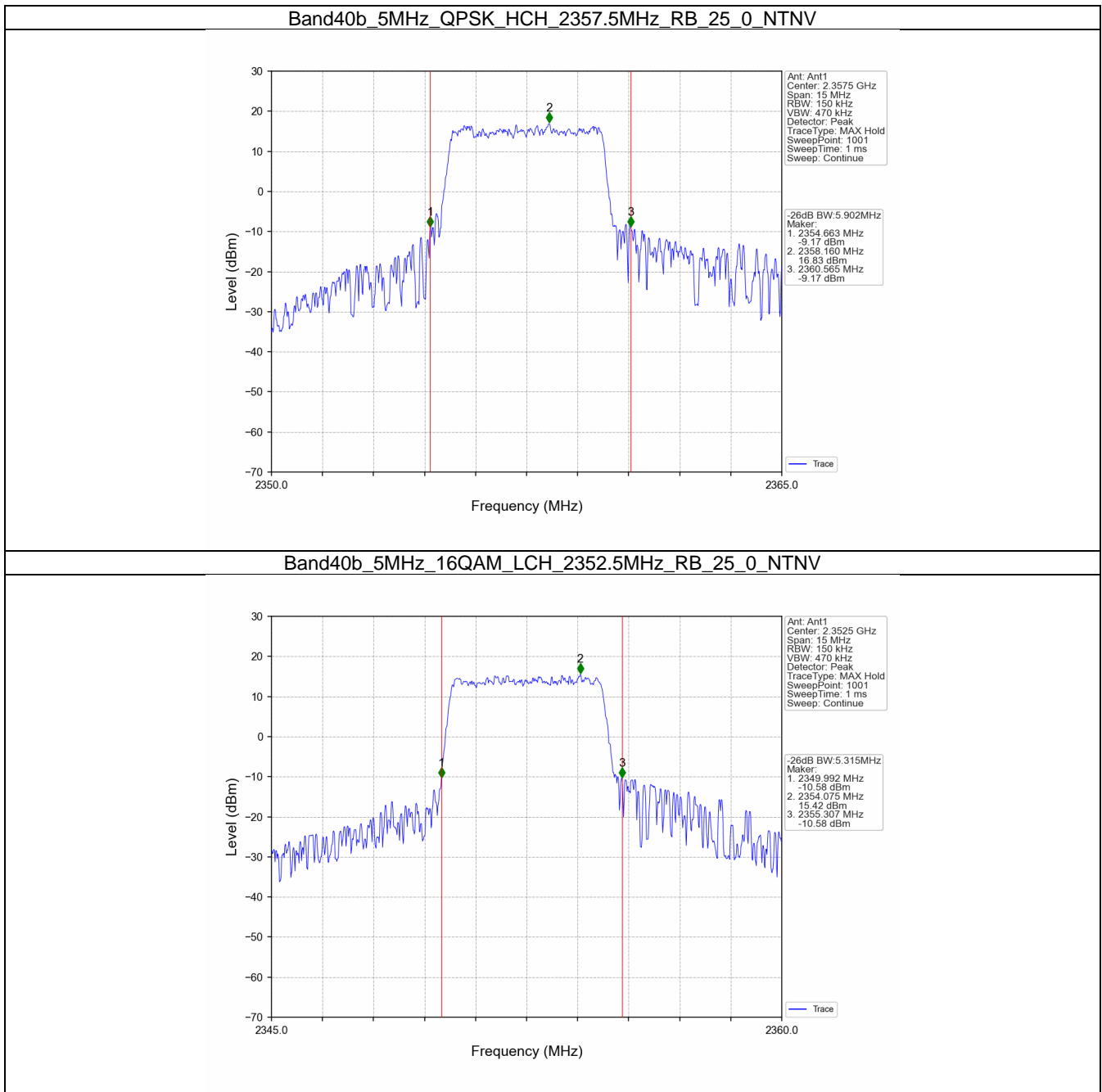


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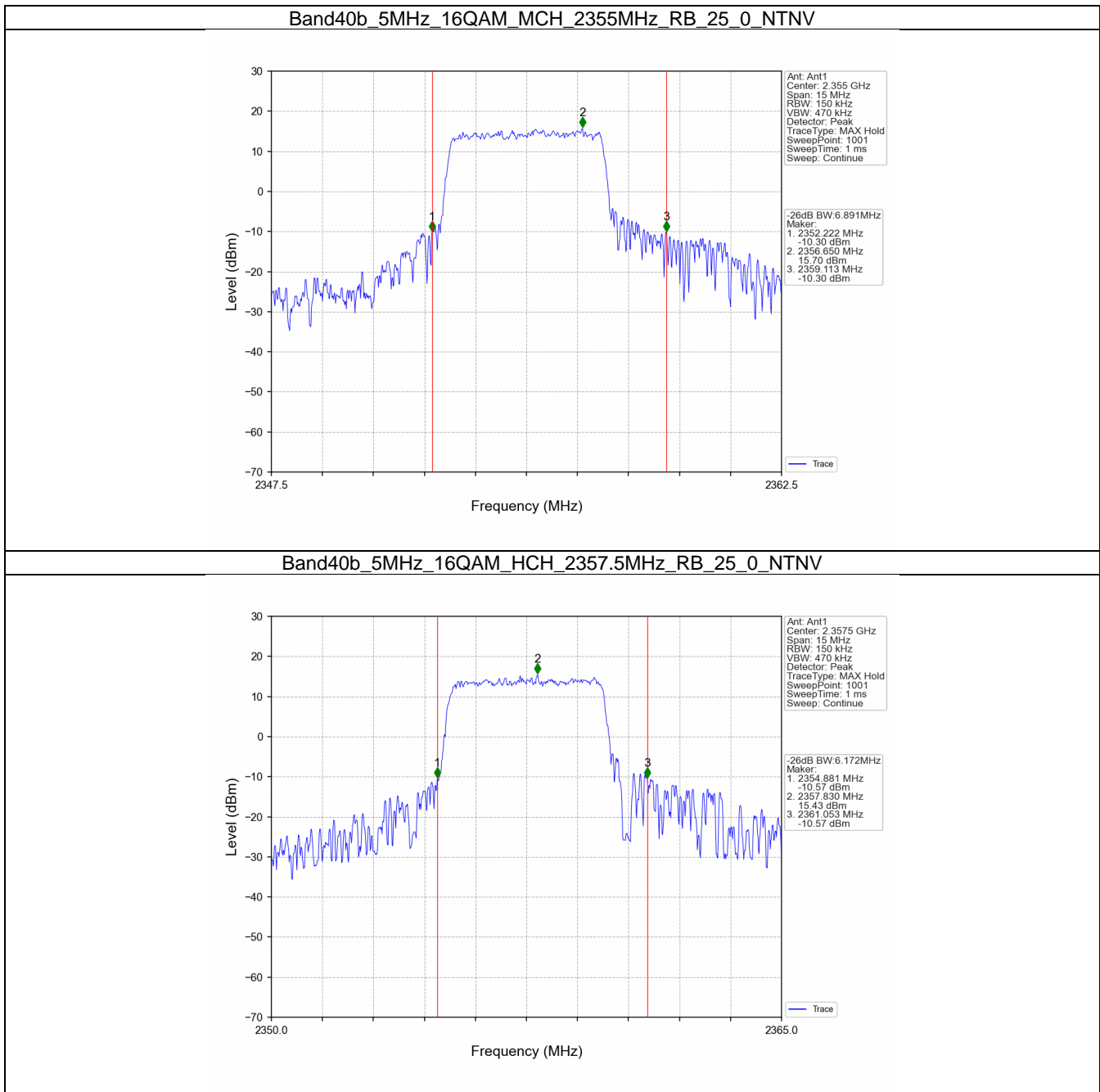


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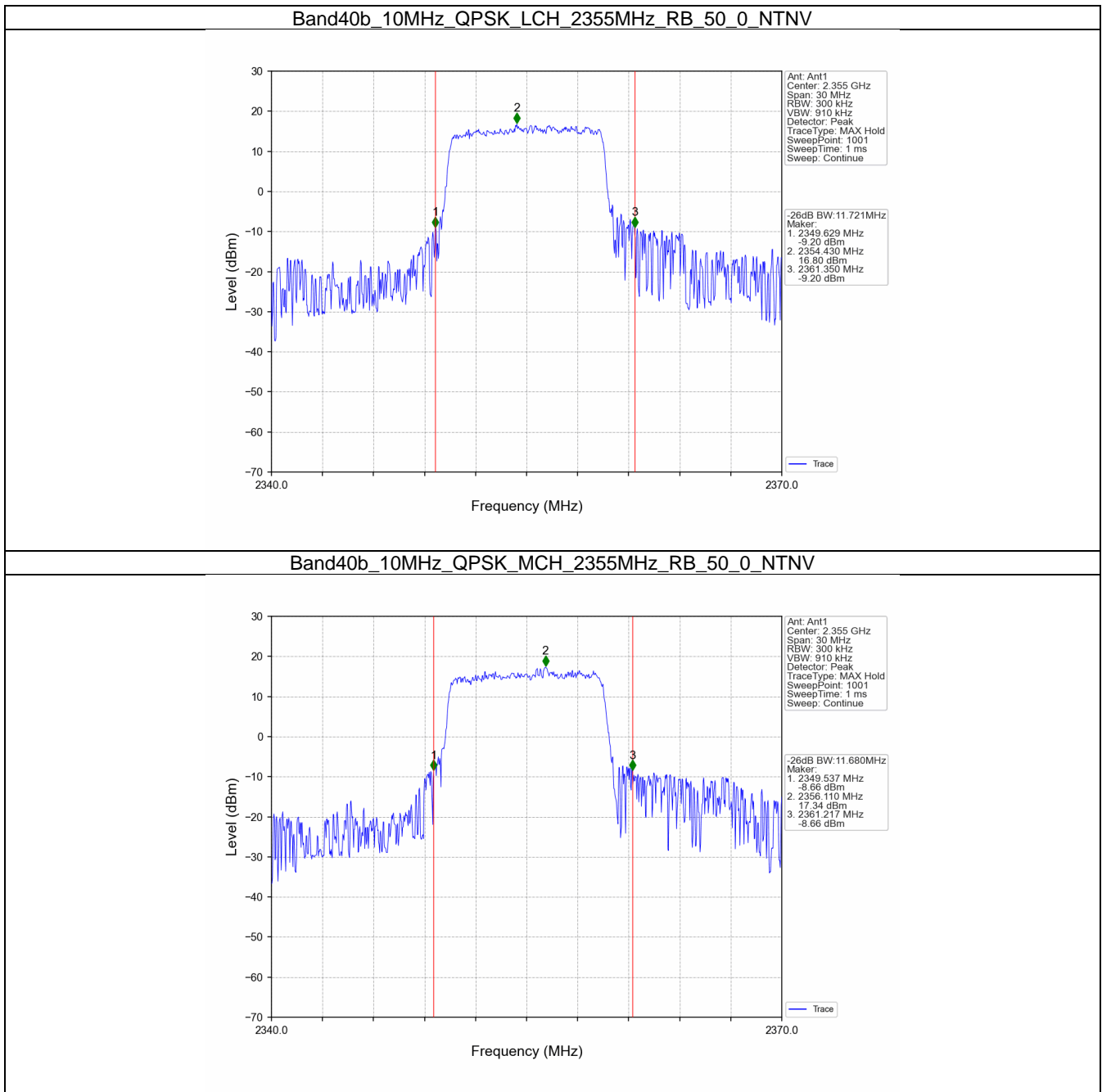
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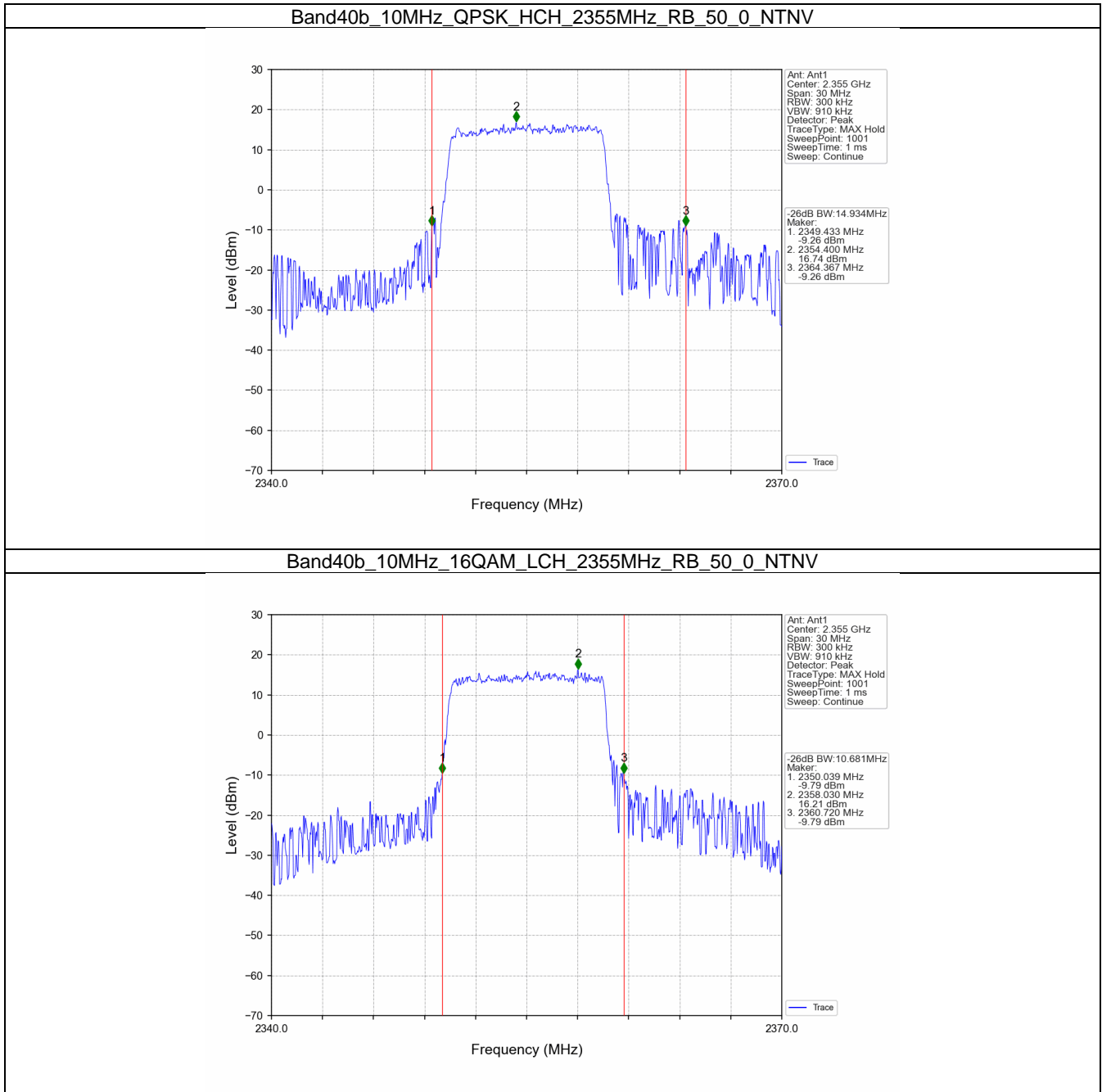


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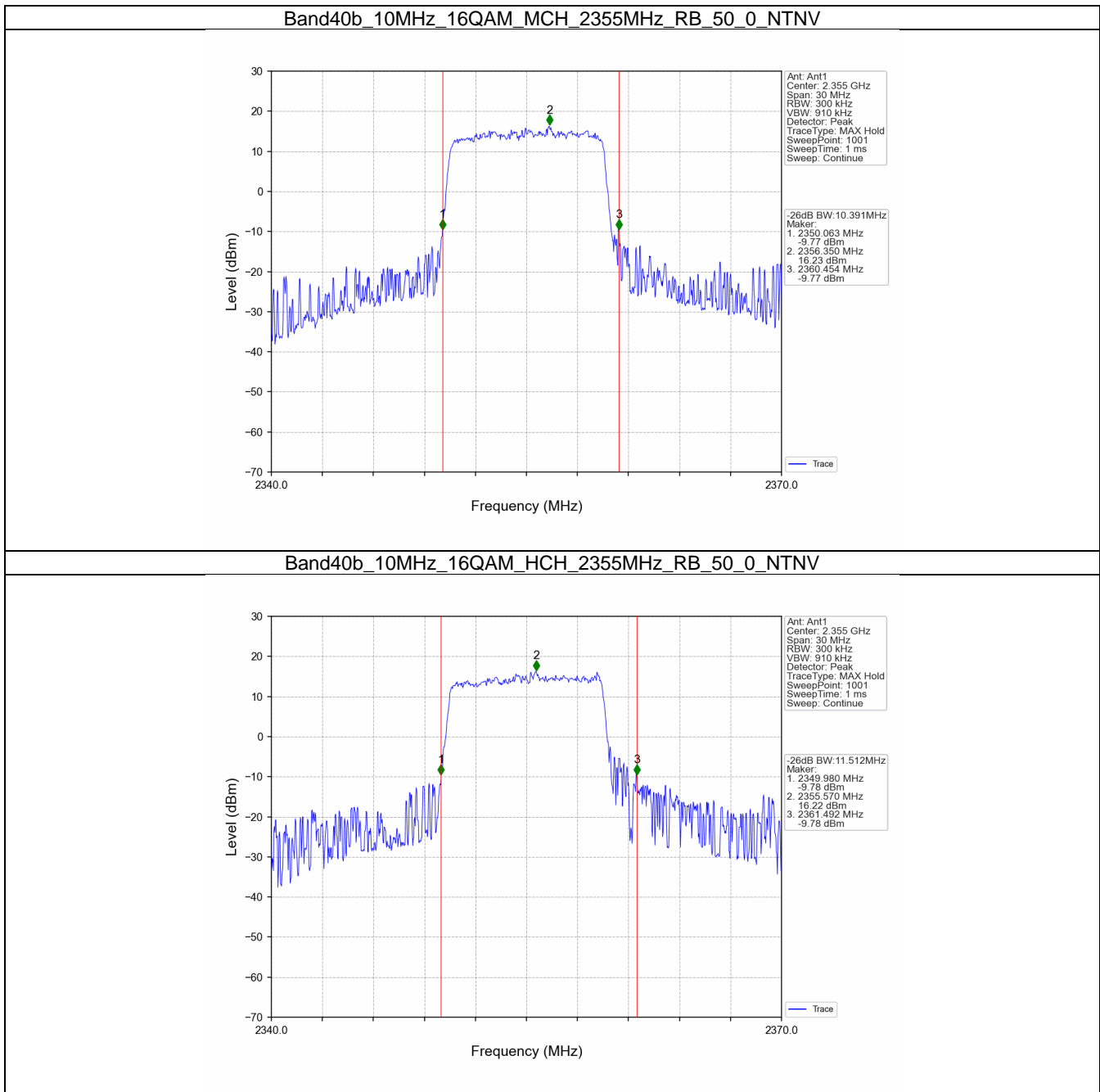
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5. Peak-Average Ratio

5.1 B40b_5MHz

5.1.1 Test Result

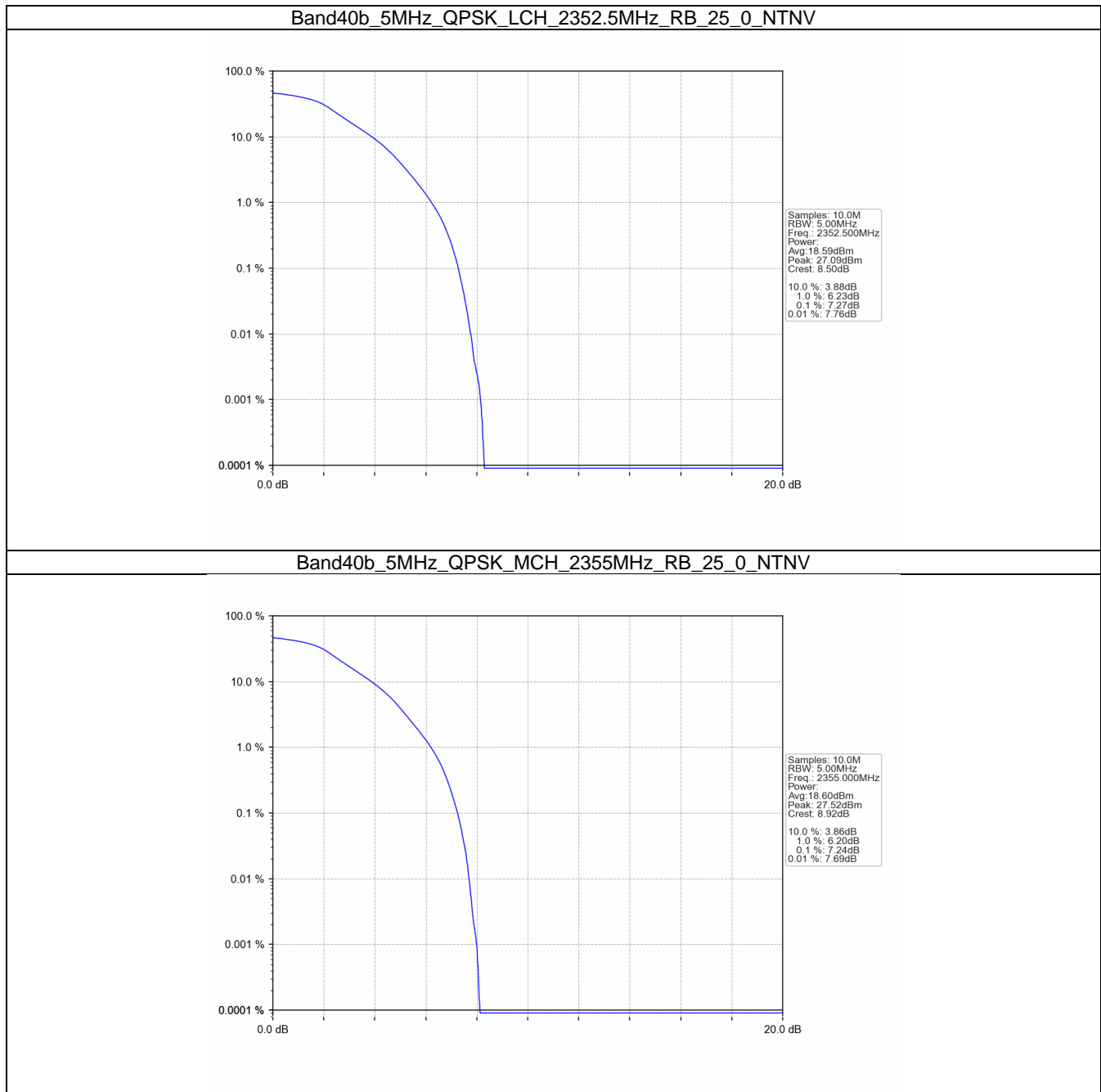
Band: 40b / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2352.5	25	0	7.27	<=13	Pass
	2355	25	0	7.24	<=13	Pass
	2357.5	25	0	7.23	<=13	Pass
16QAM	2352.5	25	0	7.97	<=13	Pass
	2355	25	0	8.20	<=13	Pass
	2357.5	25	0	7.95	<=13	Pass



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5.1.2 Test Graph

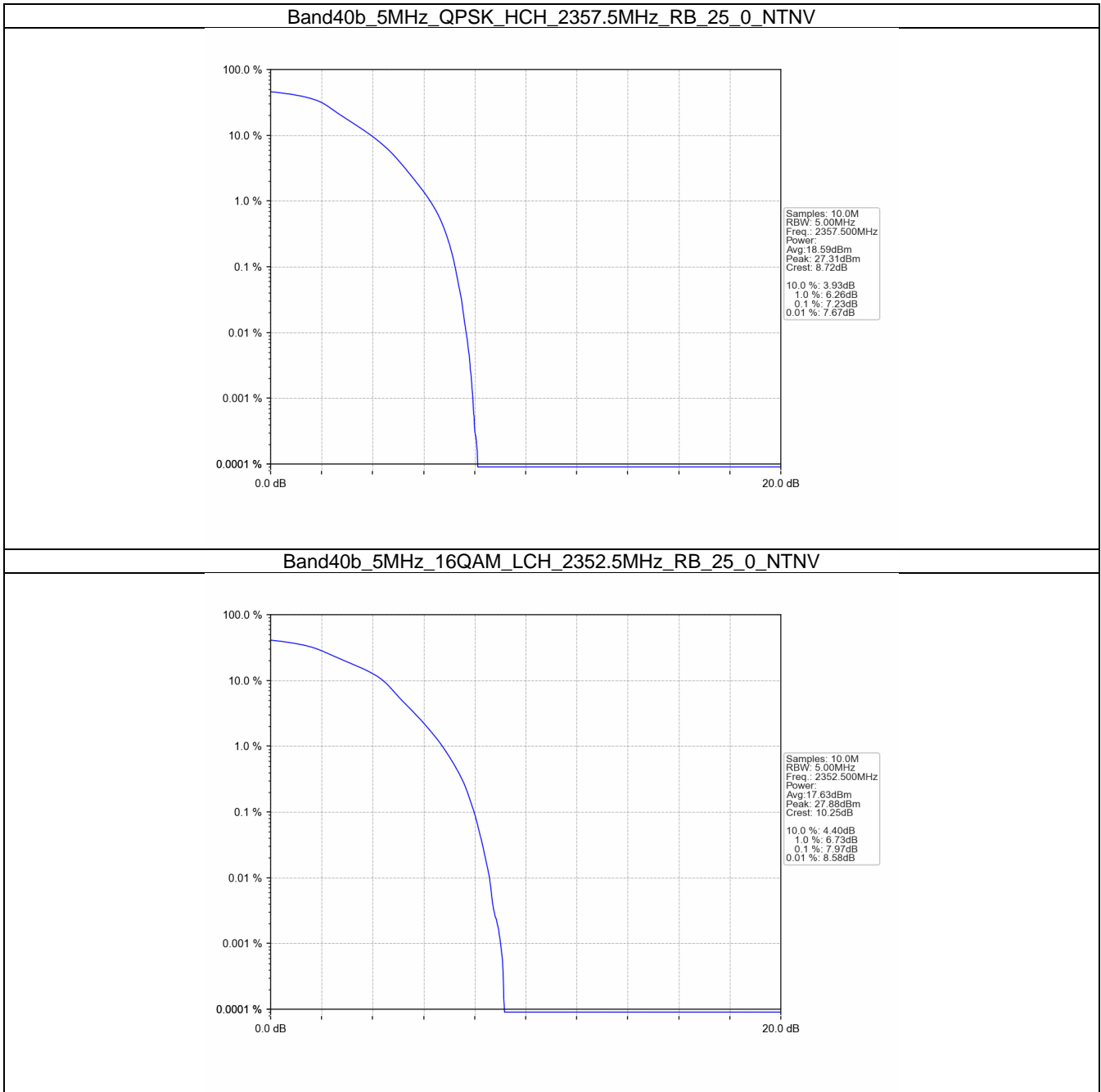


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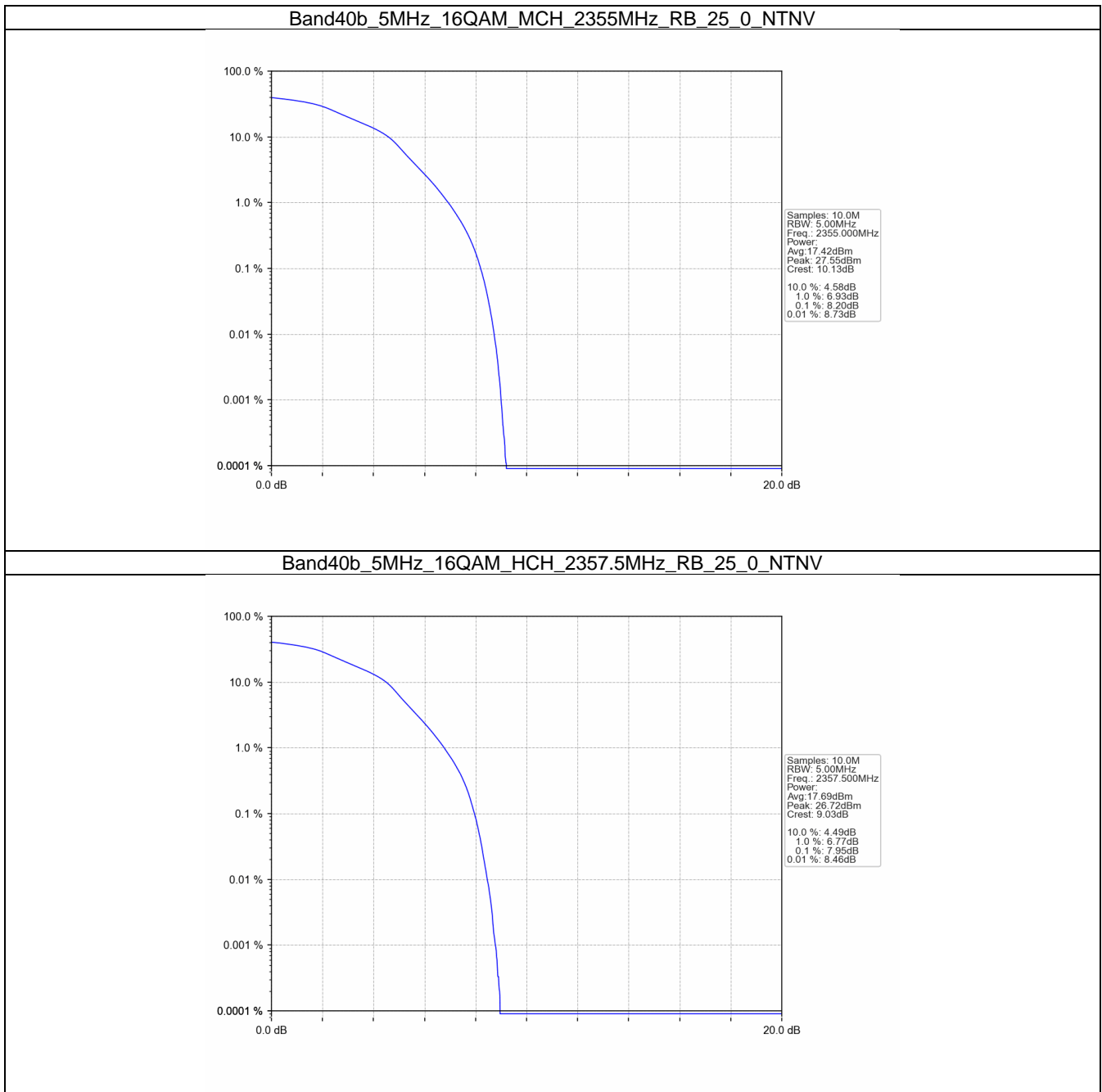


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5.2 B40b_10MHz

5.2.1 Test Result

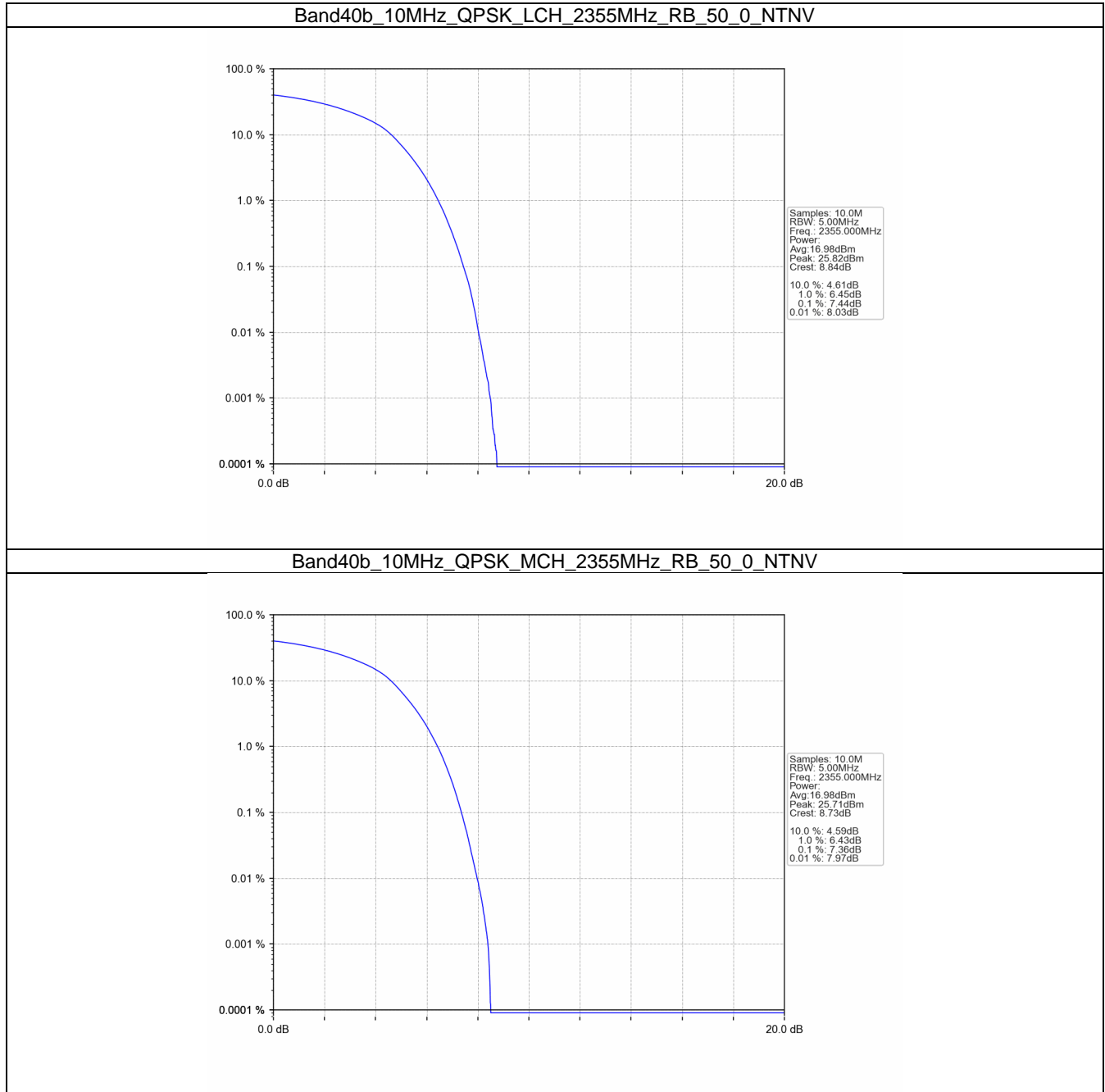
Band: 40b / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	50	0	7.44	<=13	Pass
	2355	50	0	7.36	<=13	Pass
	2355	50	0	7.48	<=13	Pass
16QAM	2355	50	0	8.48	<=13	Pass
	2355	50	0	8.54	<=13	Pass
	2355	50	0	8.56	<=13	Pass



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5.2.2 Test Graph

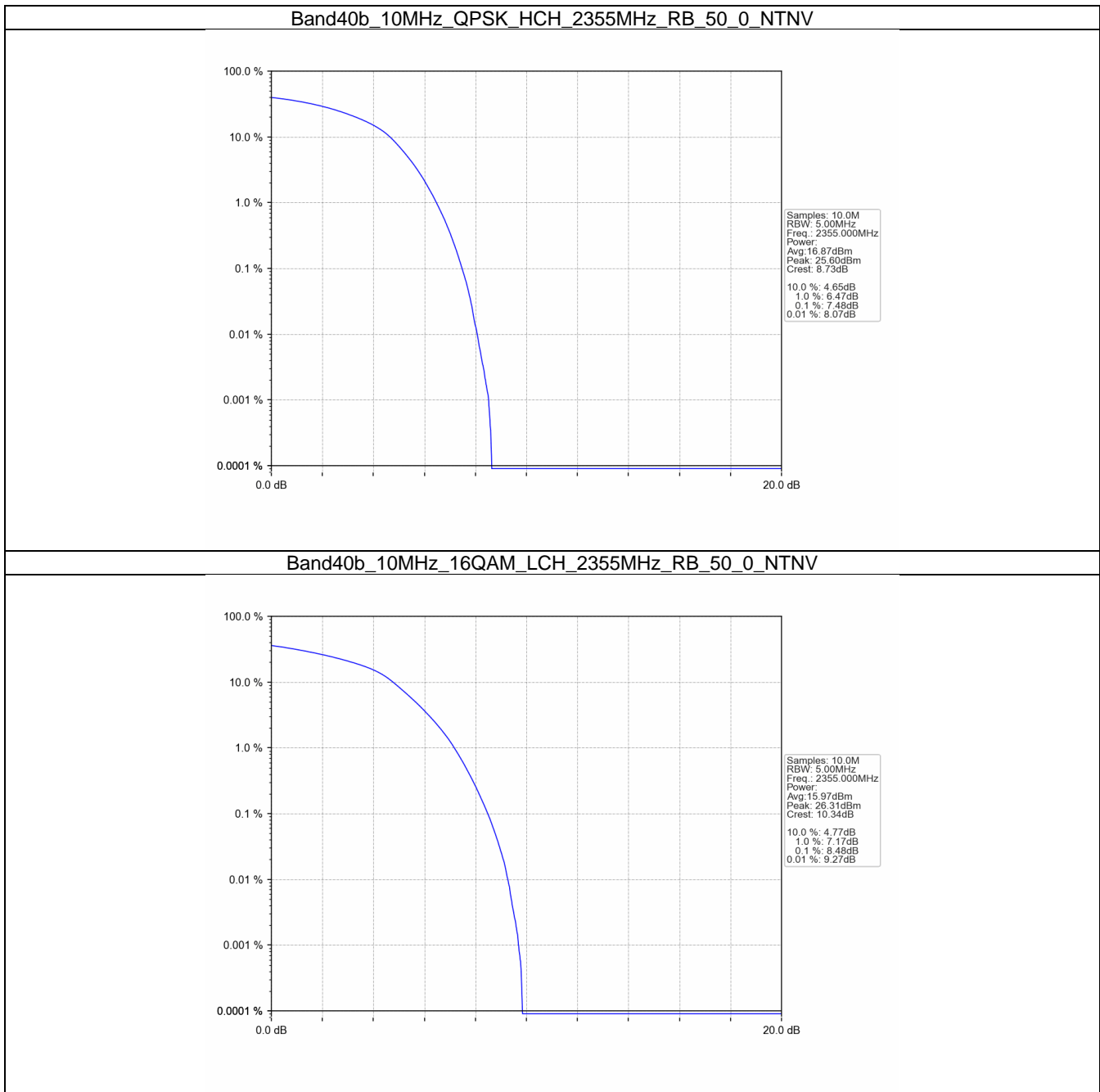


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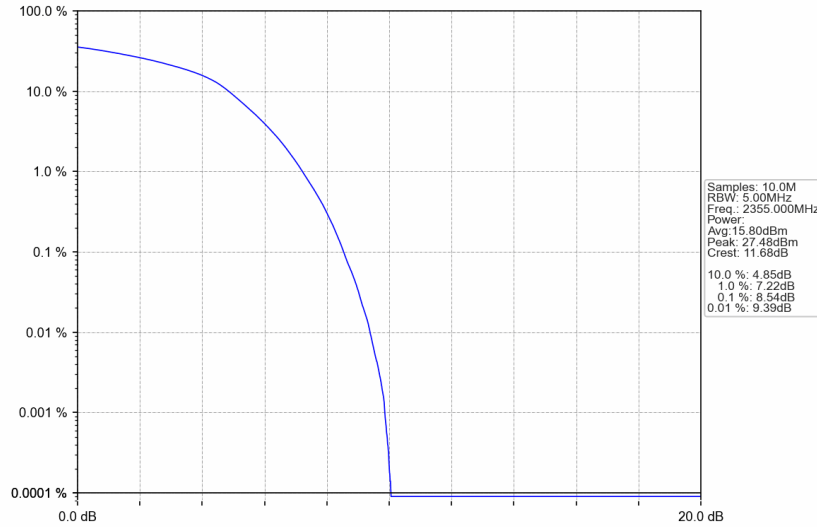


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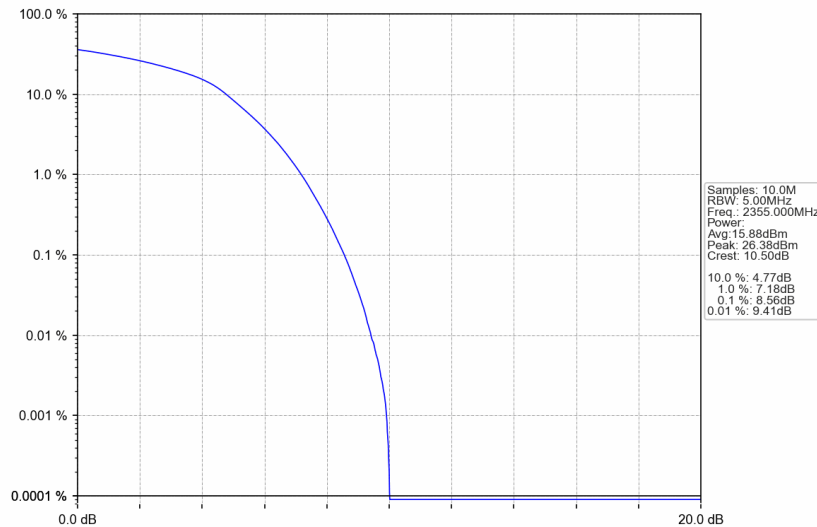
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Band40b_10MHz_16QAM_MCH_2355MHz_RB_50_0_NTNV



Band40b_10MHz_16QAM_HCH_2355MHz_RB_50_0_NTNV



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6. Spurious Emission

6.1 B40b_5MHz

6.1.1 Test Result

Band: 40b / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2352.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	2357.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

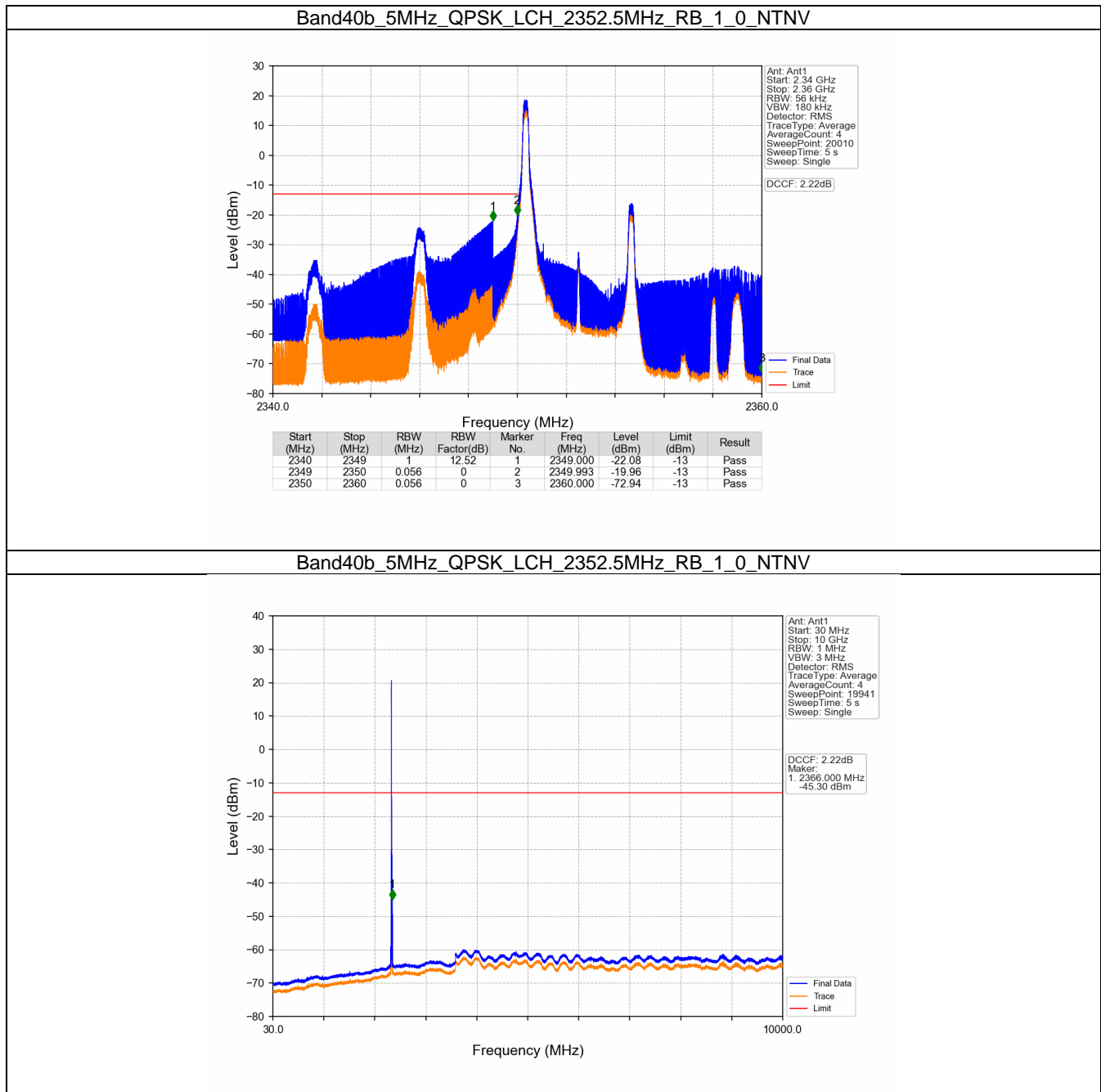


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6.1.2 Test Graph

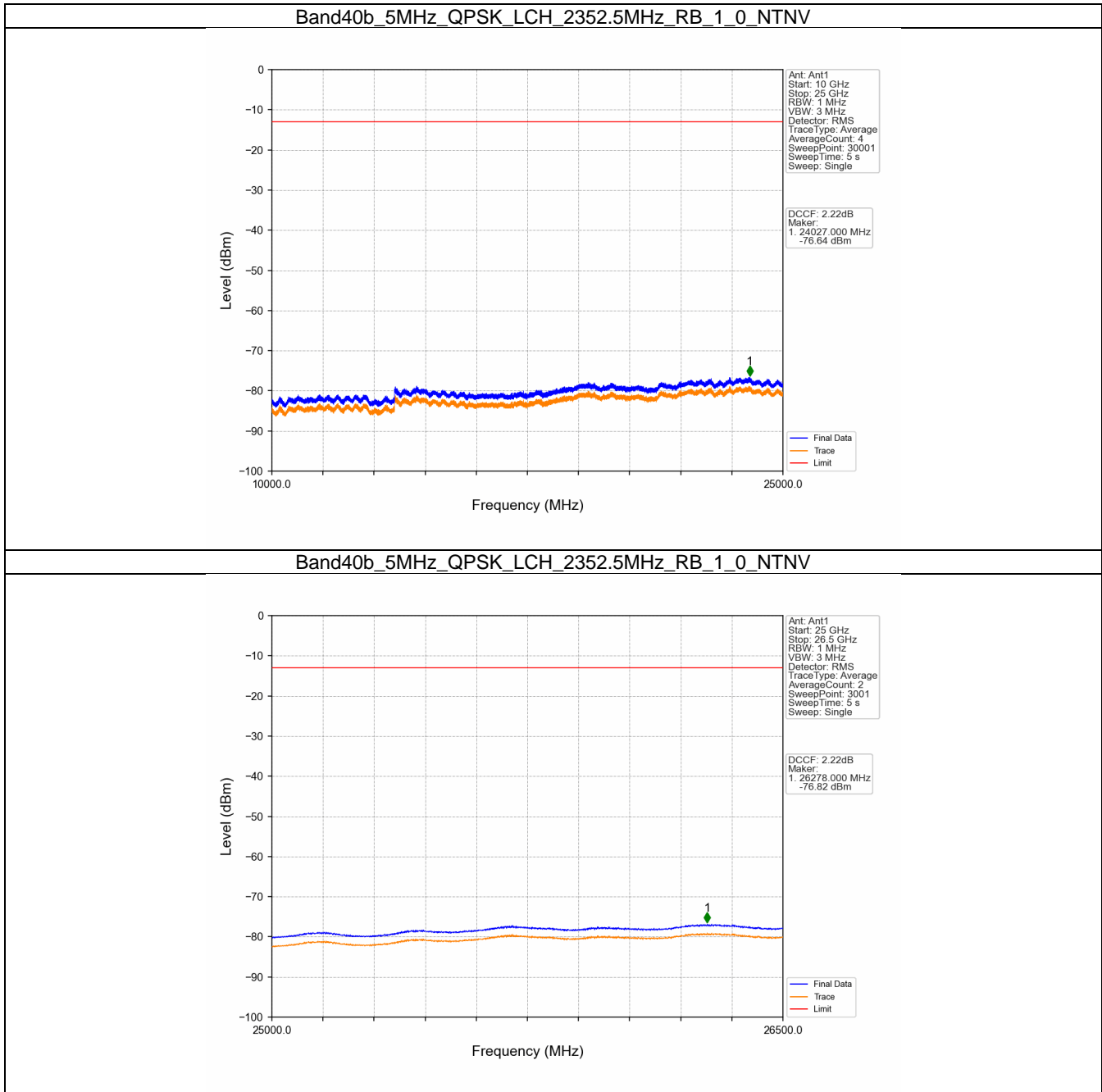


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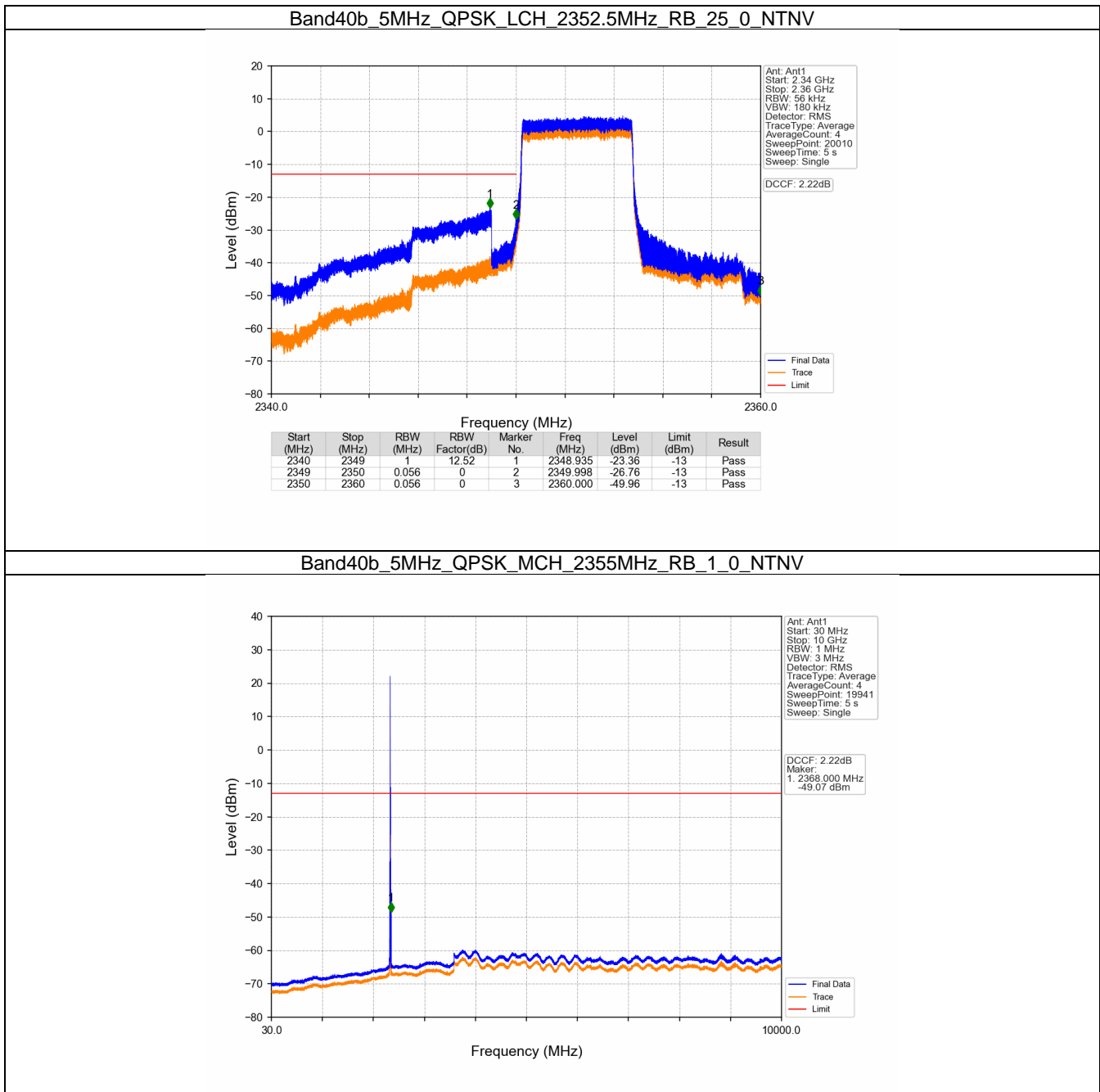


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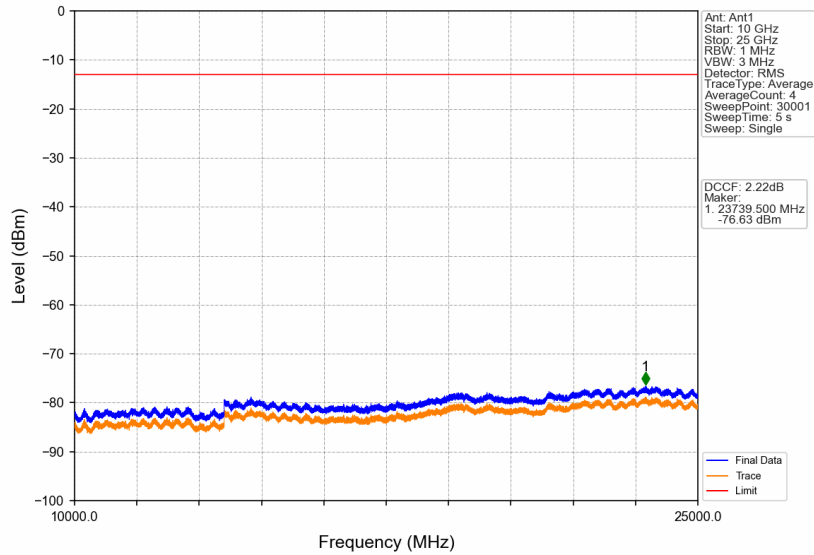
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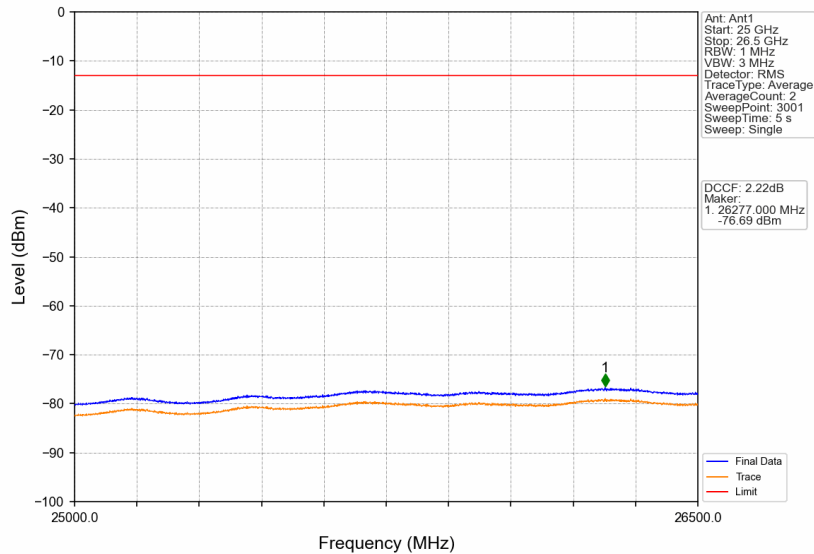
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Band40b_5MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV



Band40b_5MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV

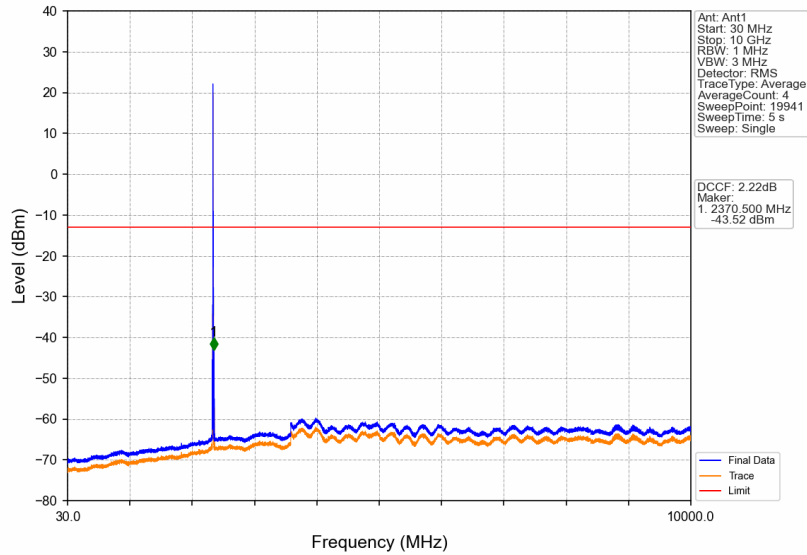


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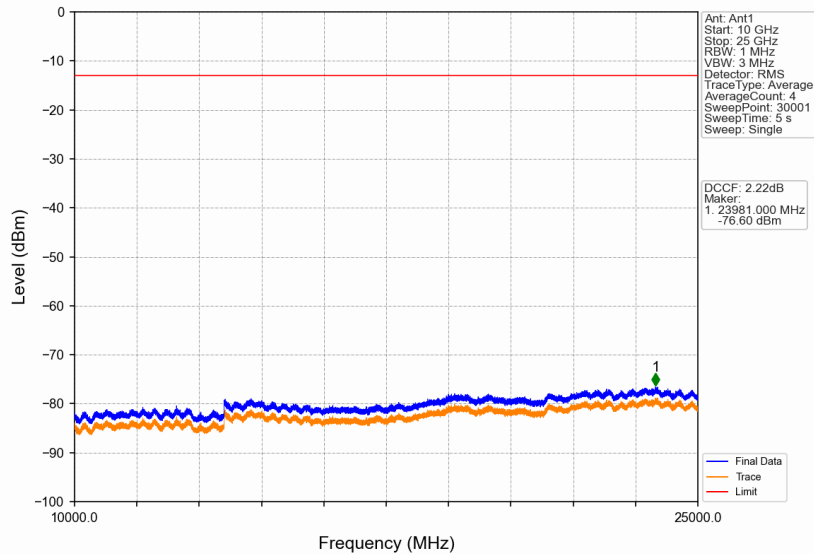
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Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_1_0_NTNV



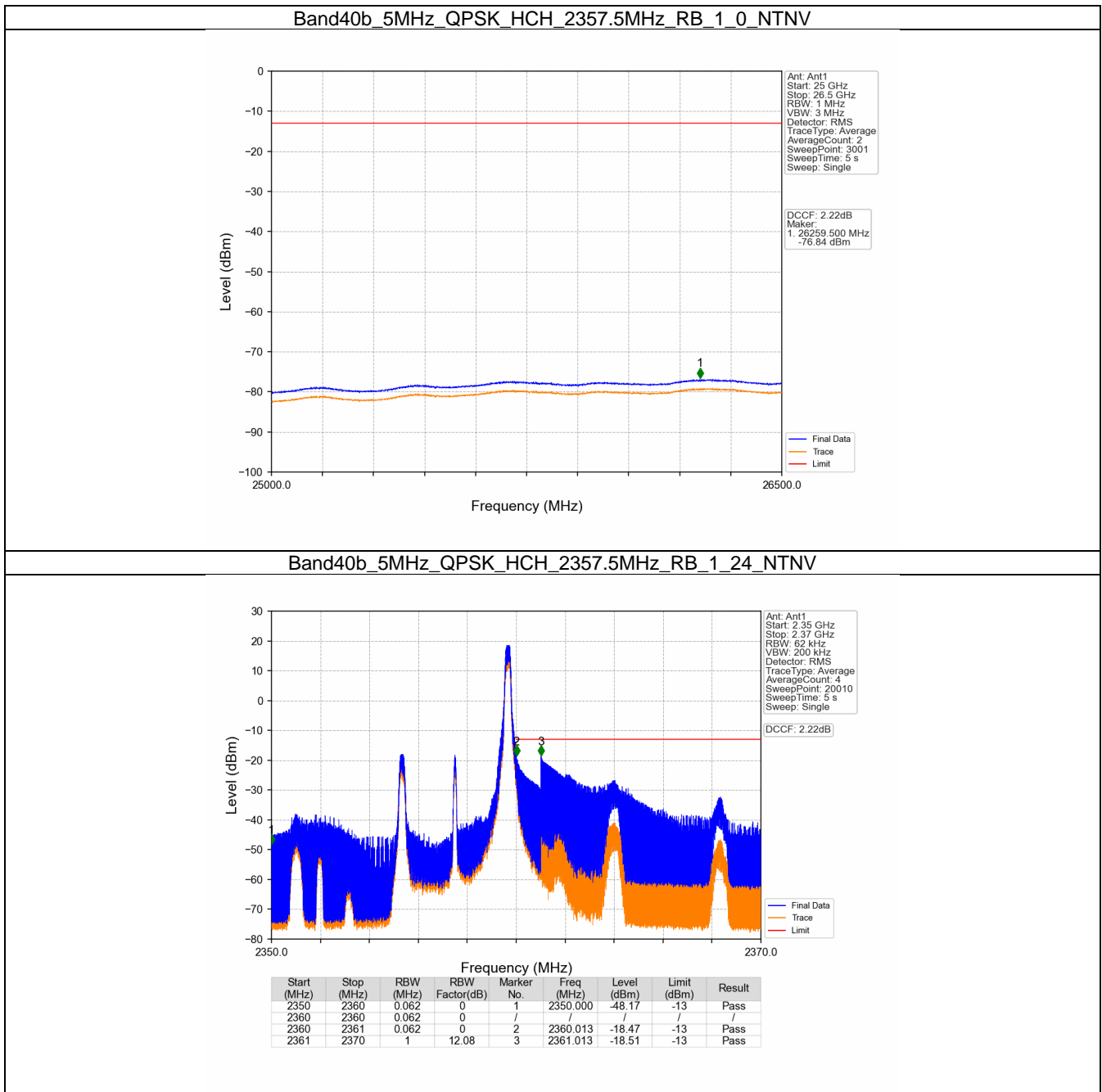
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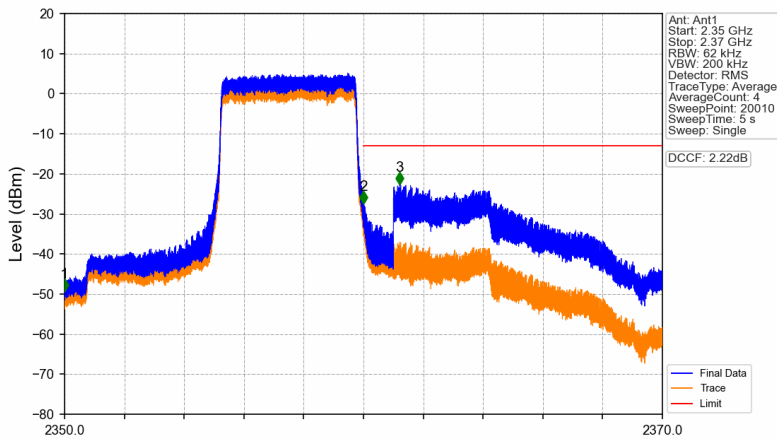


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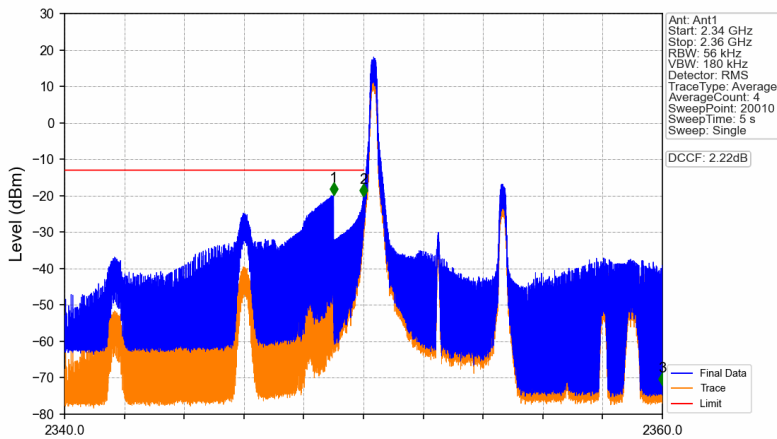
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Band40b_5MHz_QPSK_HCH_2357.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2350	2360	0.062	0	1	2350.000	-49.26	-13	Pass
2360	2361	0.062	0	2	2360.005	-27.39	-13	Pass
2361	2370	1	12.08	3	2361.195	-22.74	-13	Pass

Band40b_5MHz_16QAM_LCH_2352.5MHz_RB_1_0_NTNV



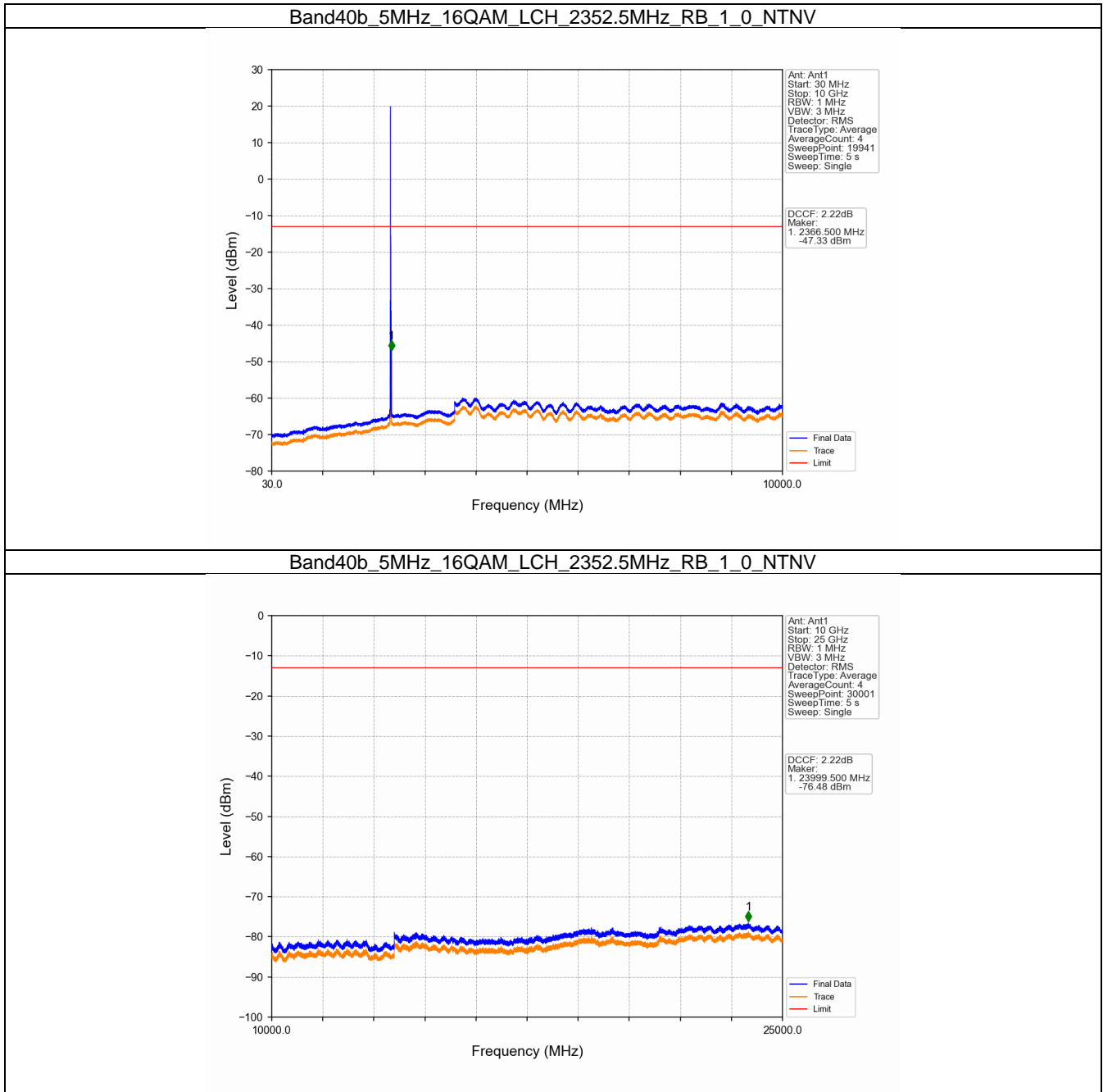
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2340	2349	1	12.52	1	2348.997	-19.92	-13	Pass
2349	2350	0.056	0	2	2349.997	-20.26	-13	Pass
2350	2360	0.056	0	3	2360.000	-72.05	-13	Pass



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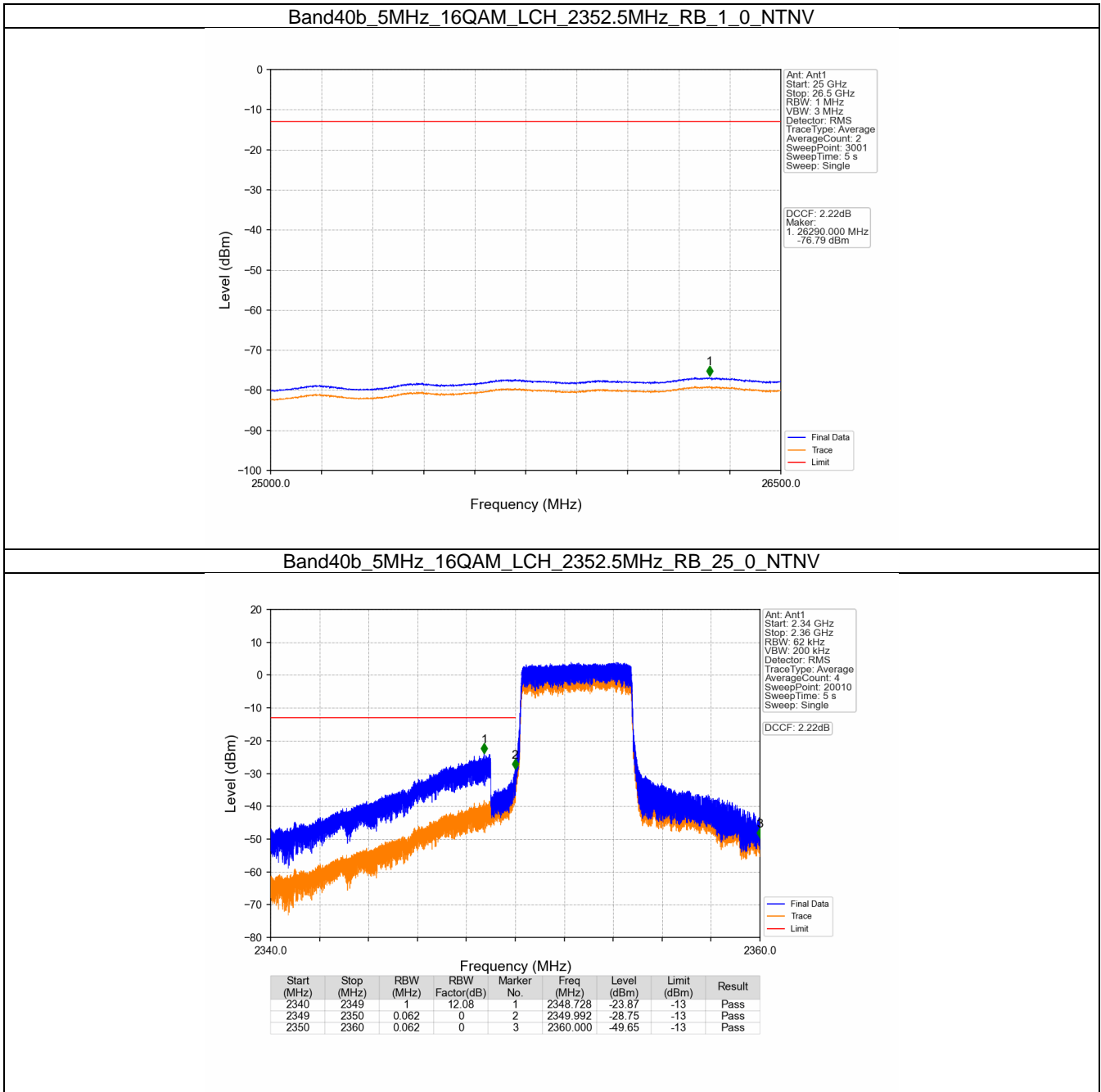
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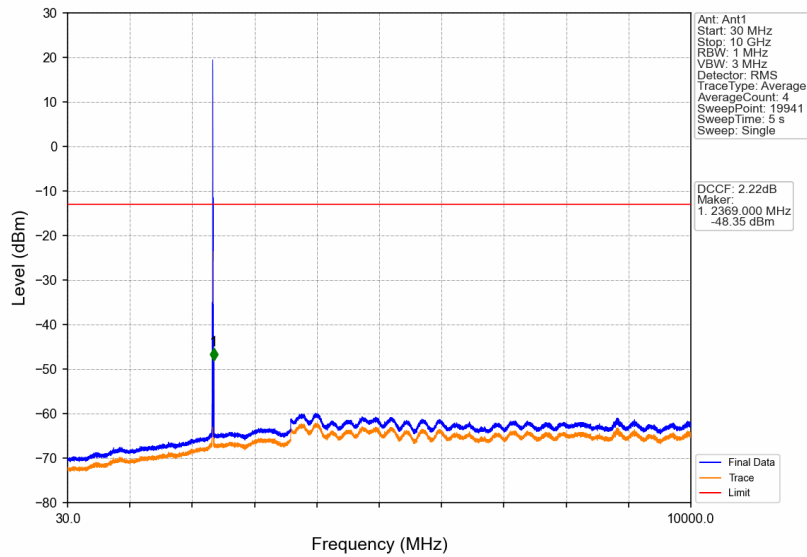
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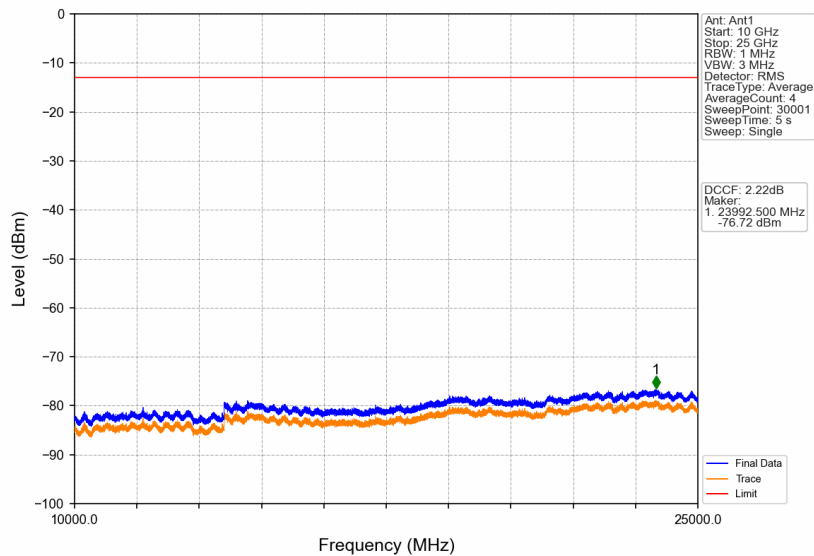
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Band40b_5MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV

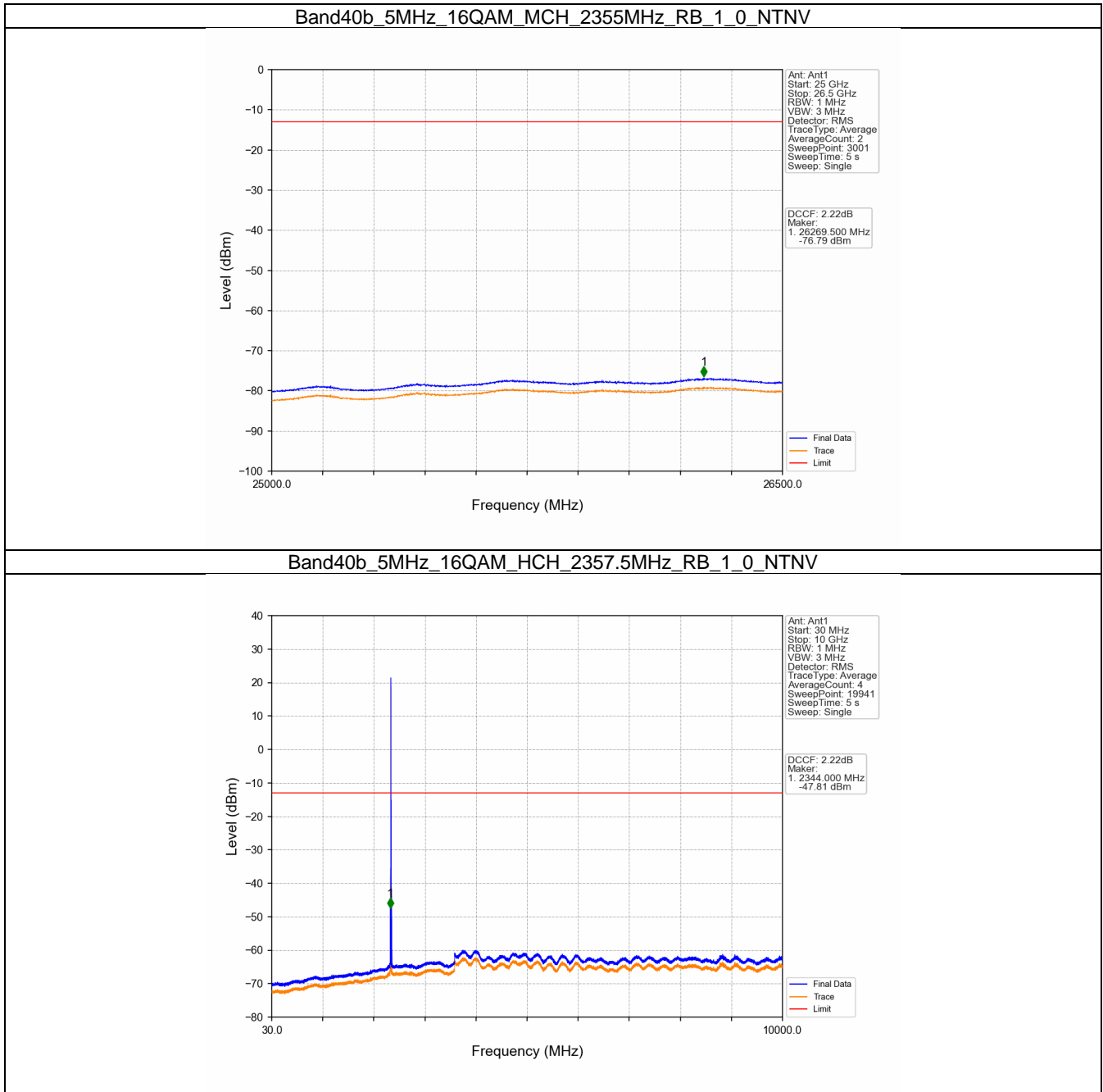


Band40b_5MHz_16QAM_MCH_2355MHz_RB_1_0_NTNV



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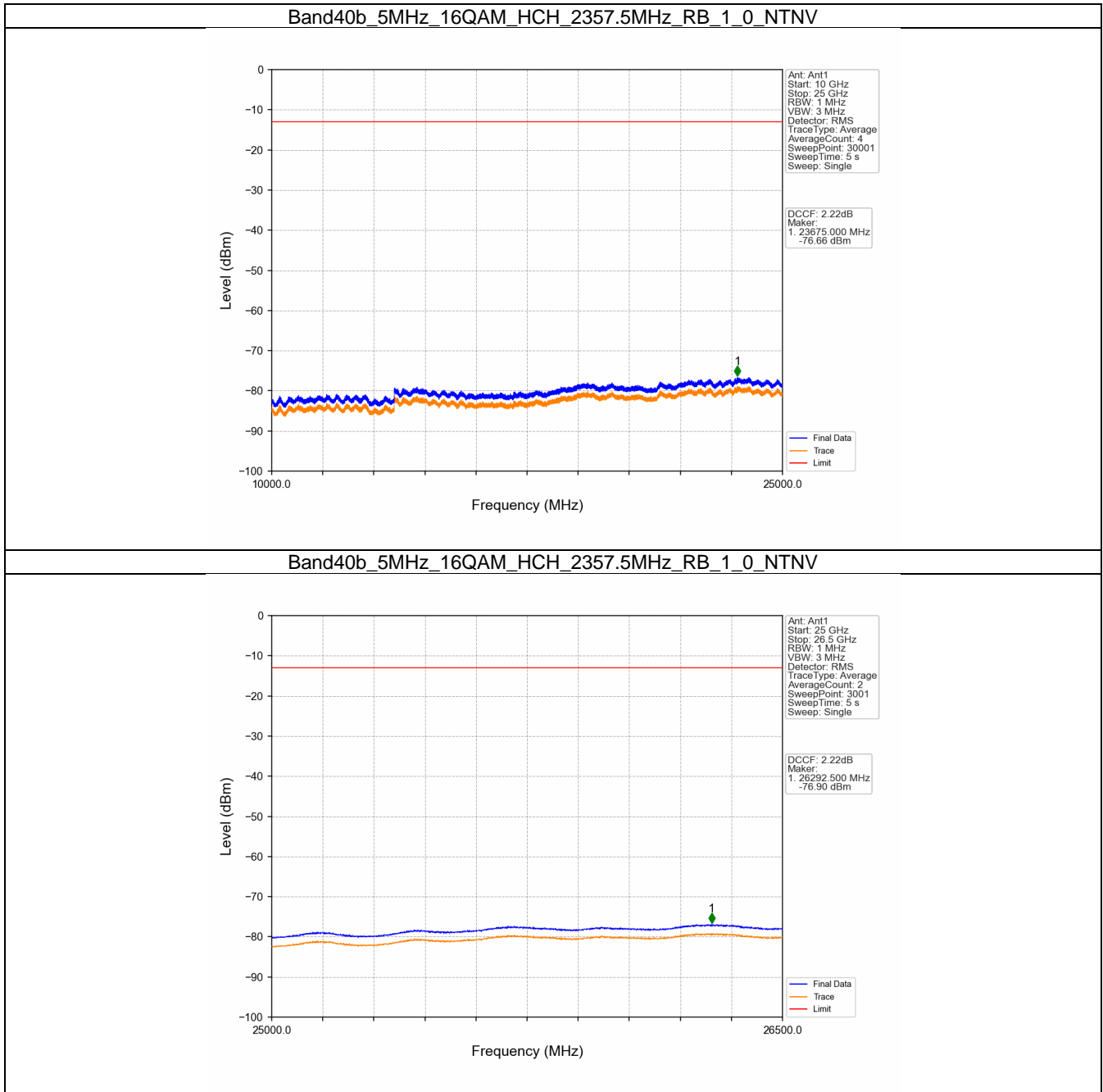
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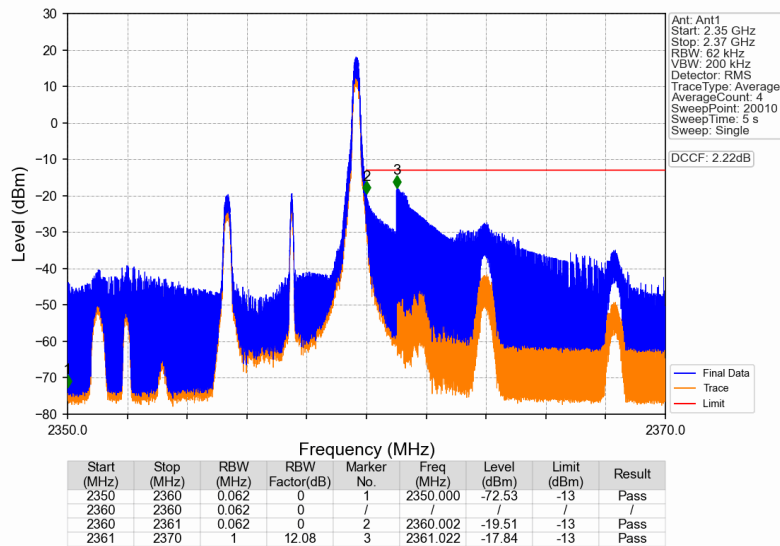
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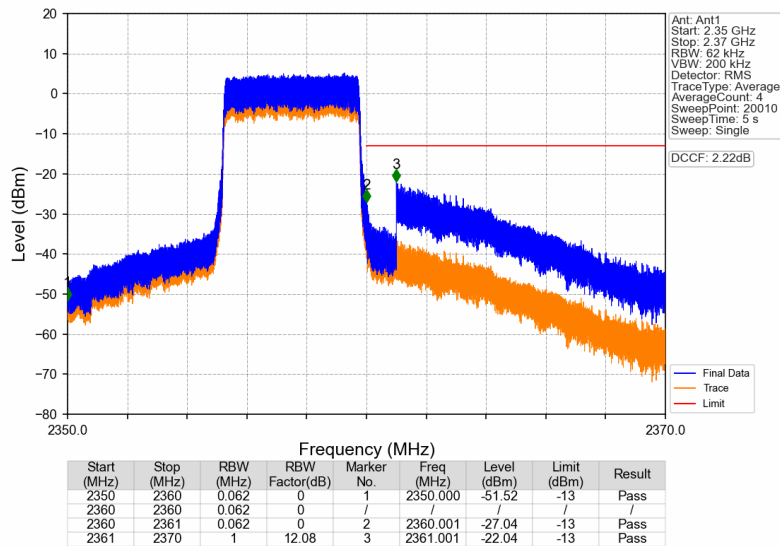
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Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_1_24_NTNV



Band40b_5MHz_16QAM_HCH_2357.5MHz_RB_25_0_NTNV



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6.2 B40b_10MHz

6.2.1 Test Result

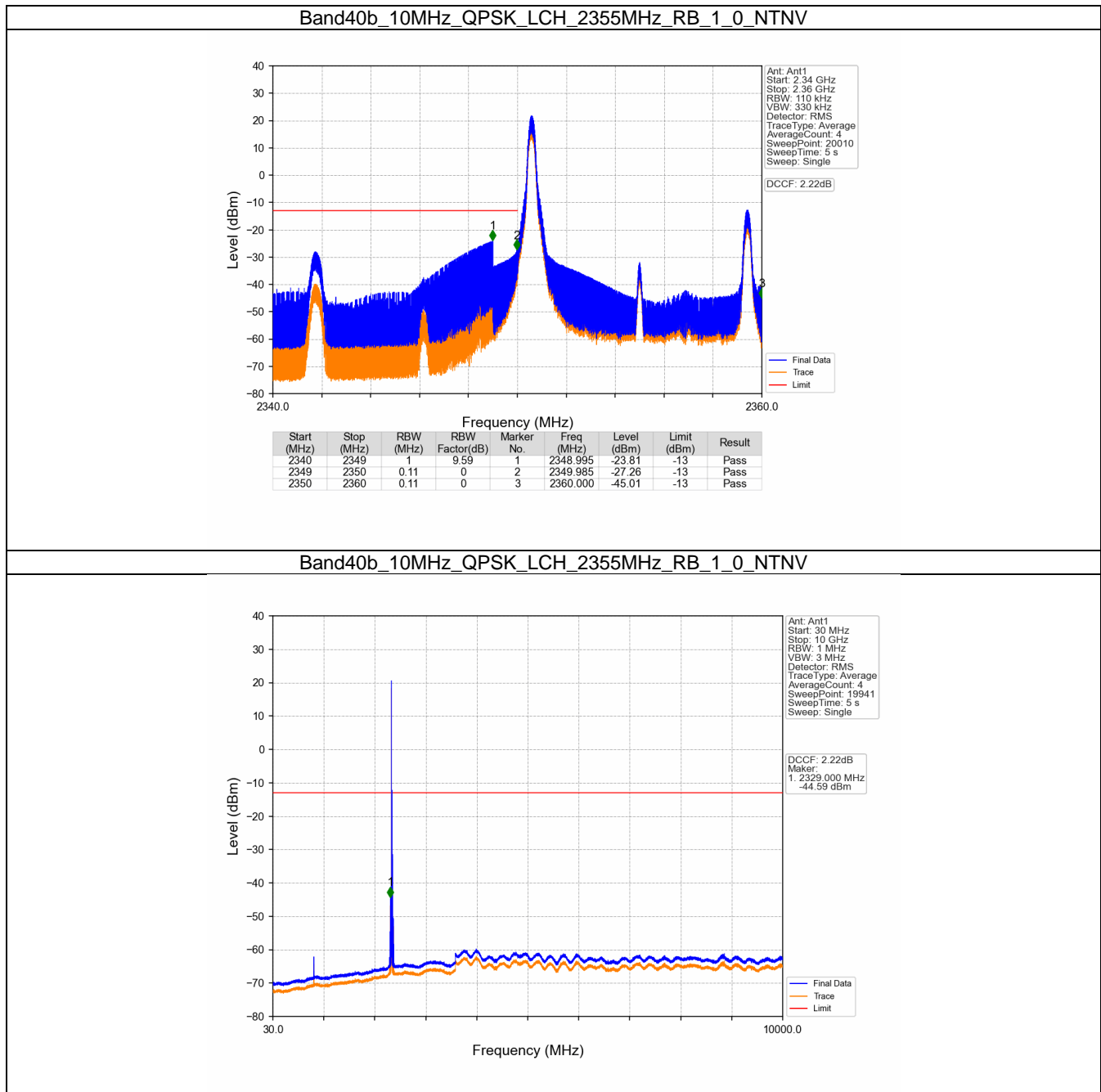
Band: 40b / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2355	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2355	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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6.2.2 Test Graph

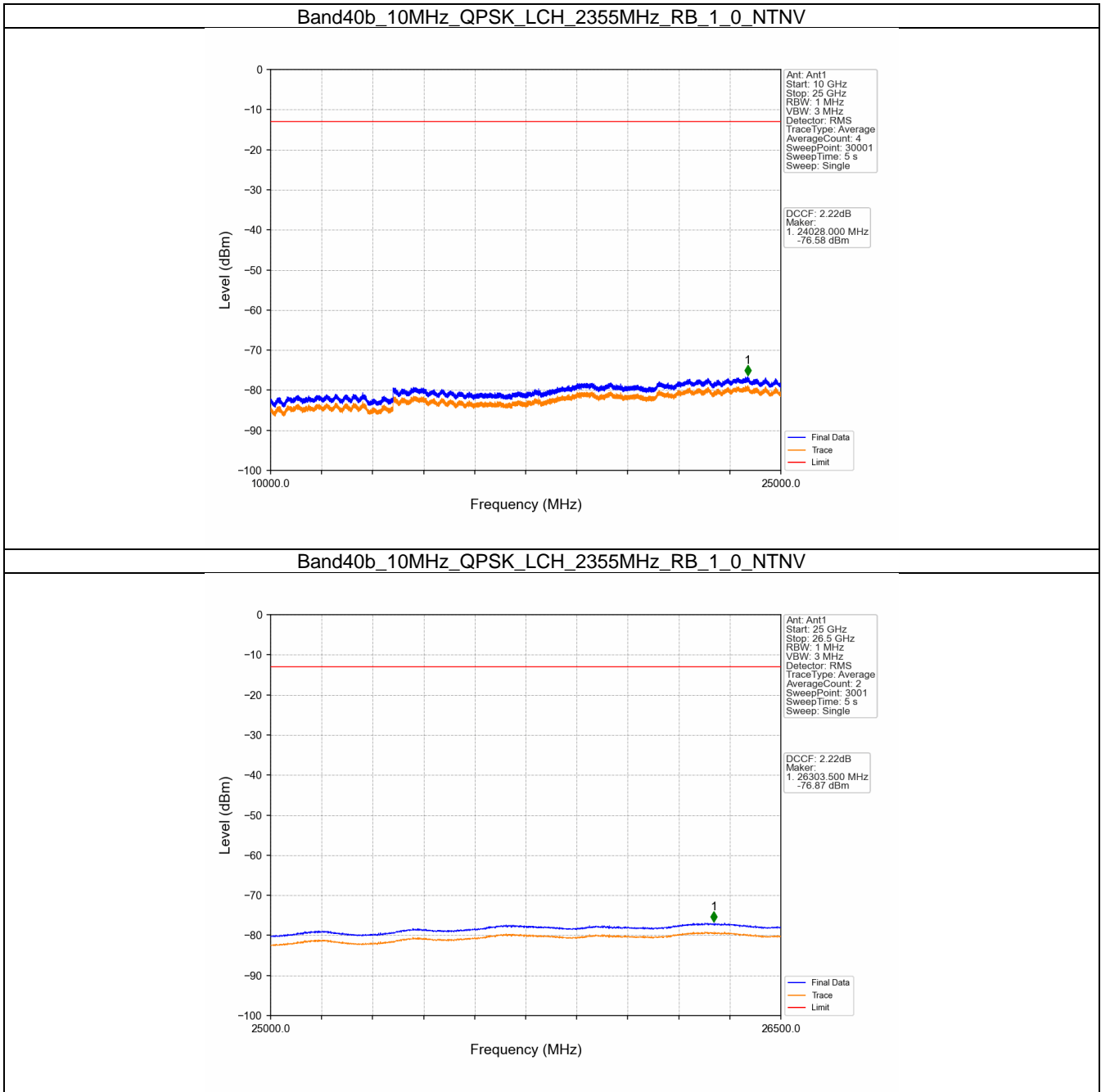


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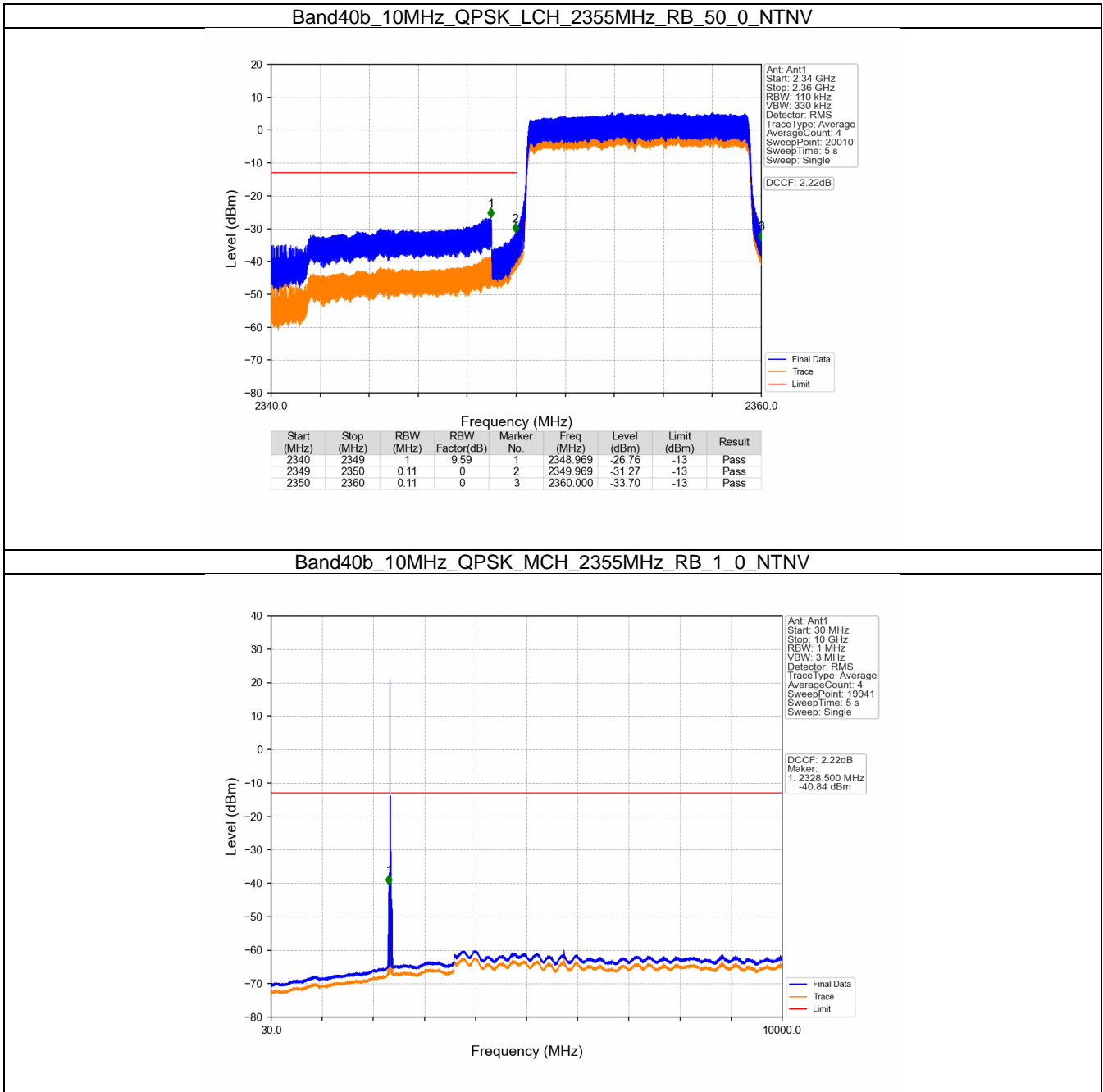


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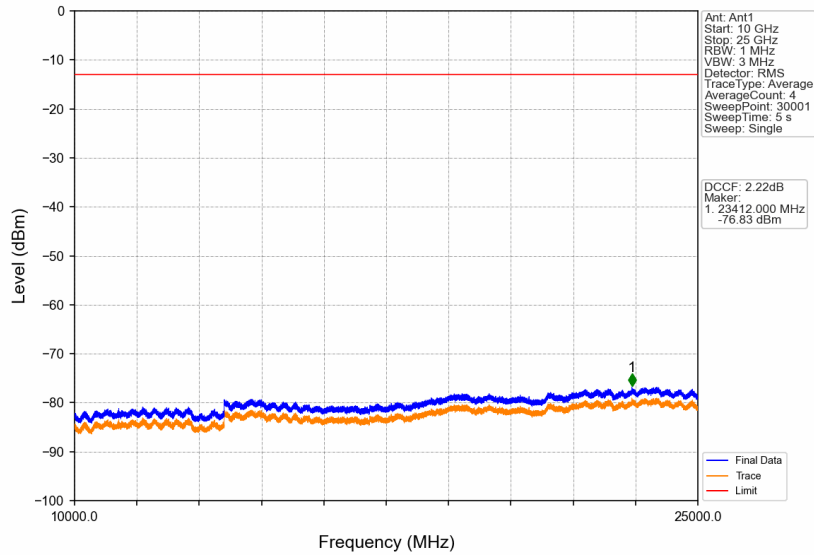


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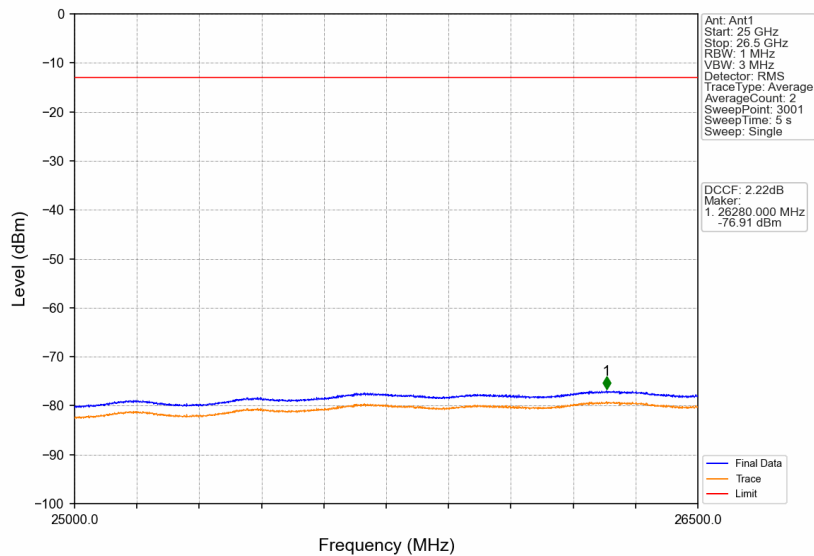
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Band40b_10MHz_QPSK_MCH_2355MHz_RB_1_0_NTNV



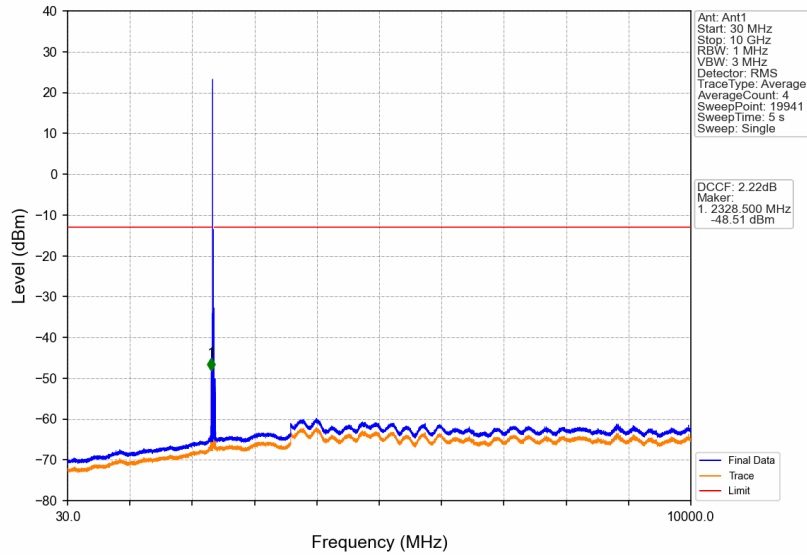
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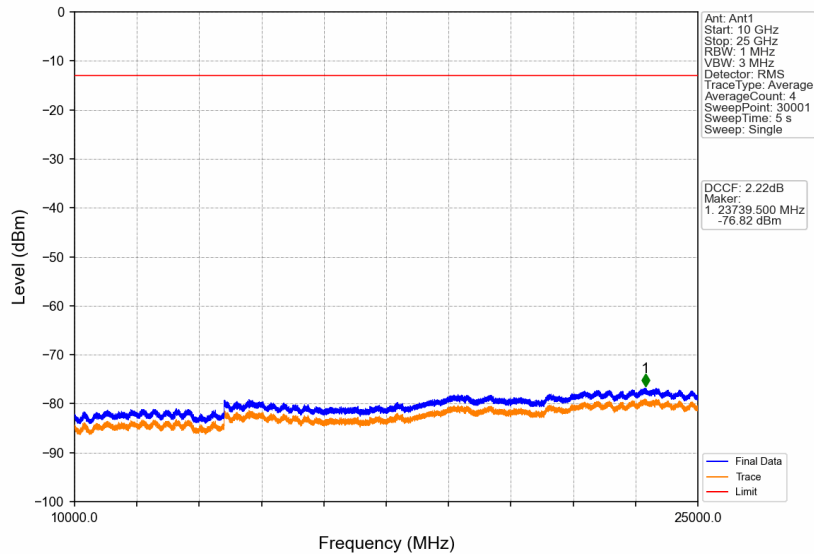
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Band40b_10MHz_QPSK_HCH_2355MHz_RB_1_0_NTV

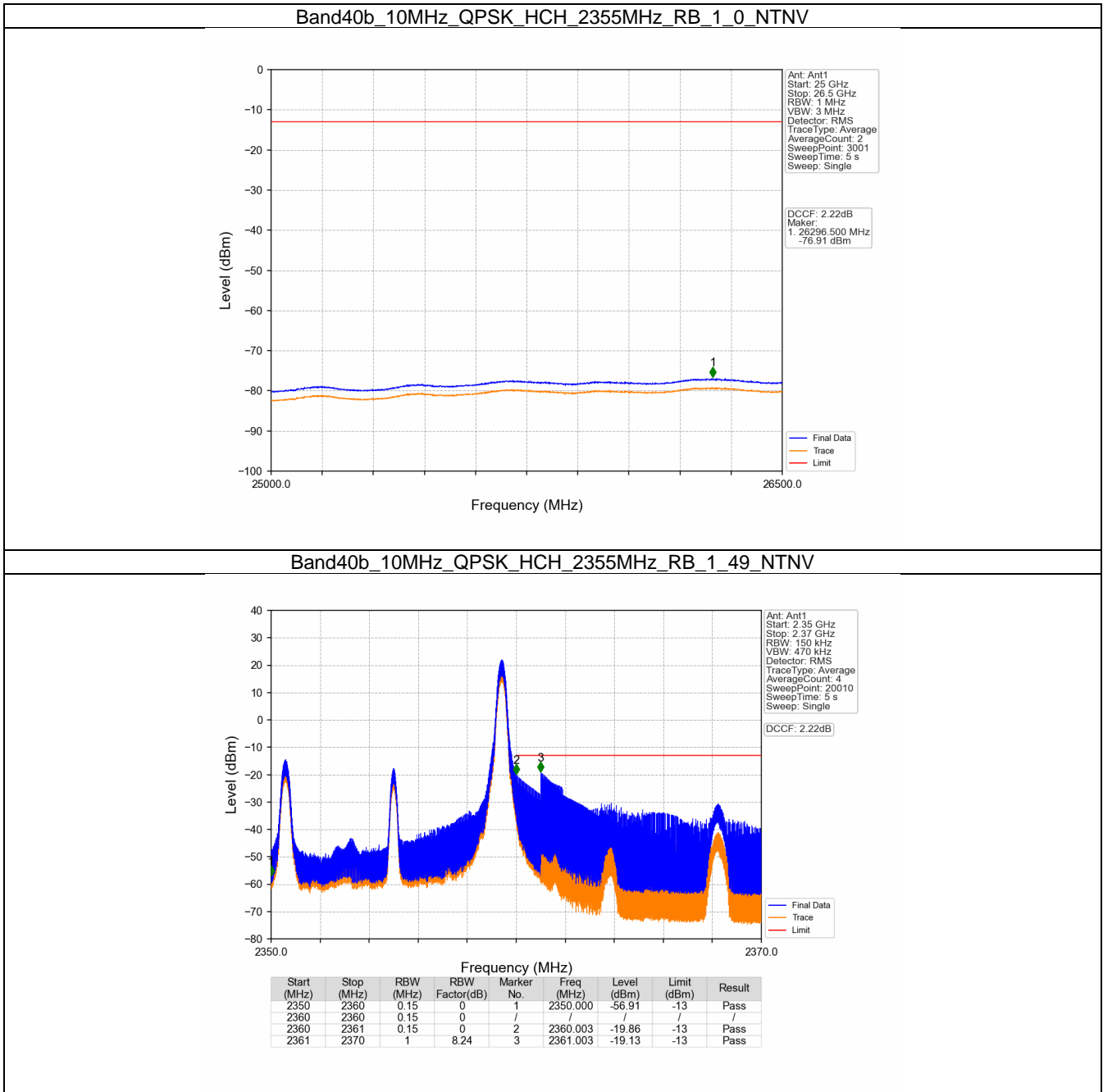


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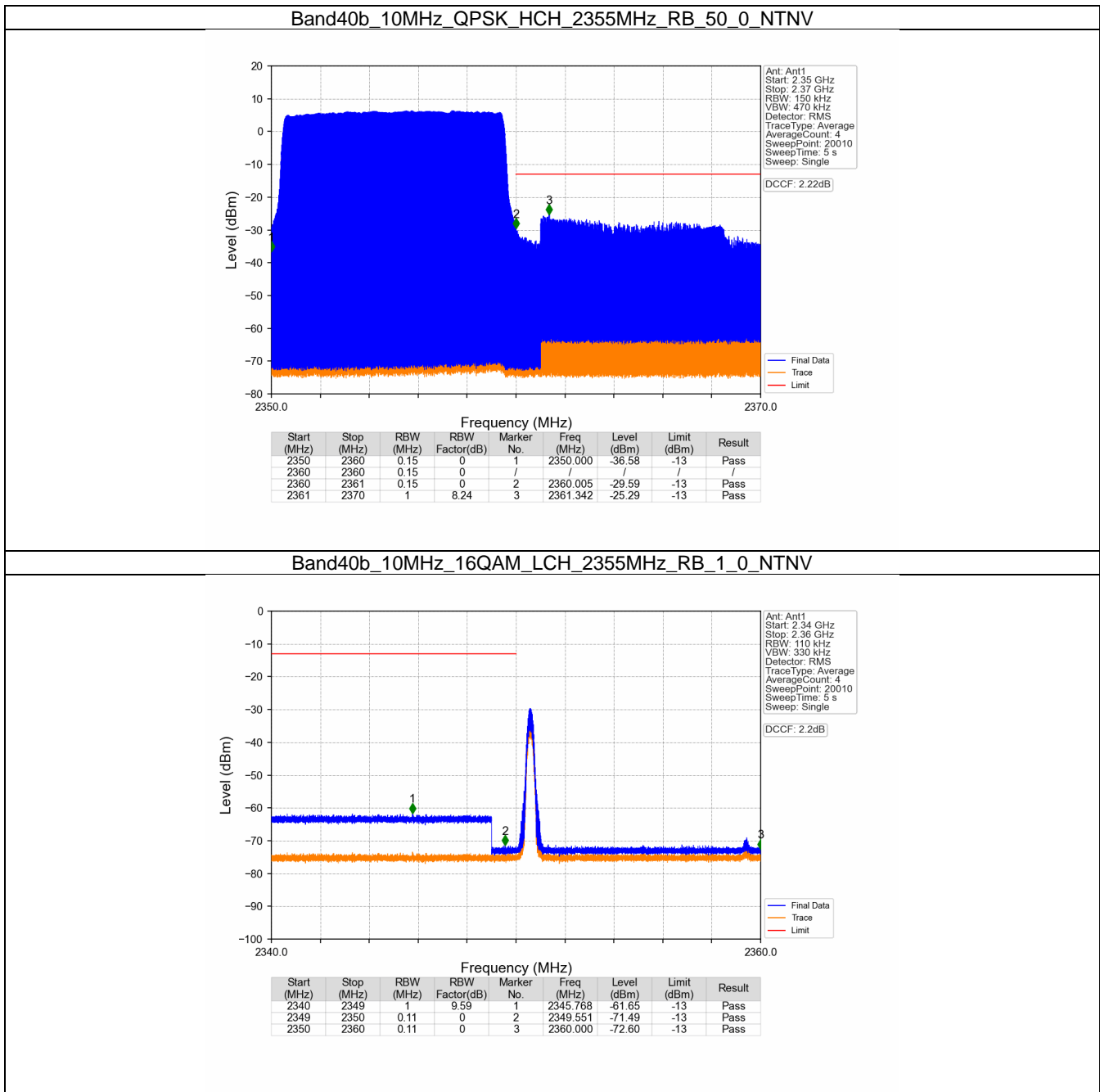
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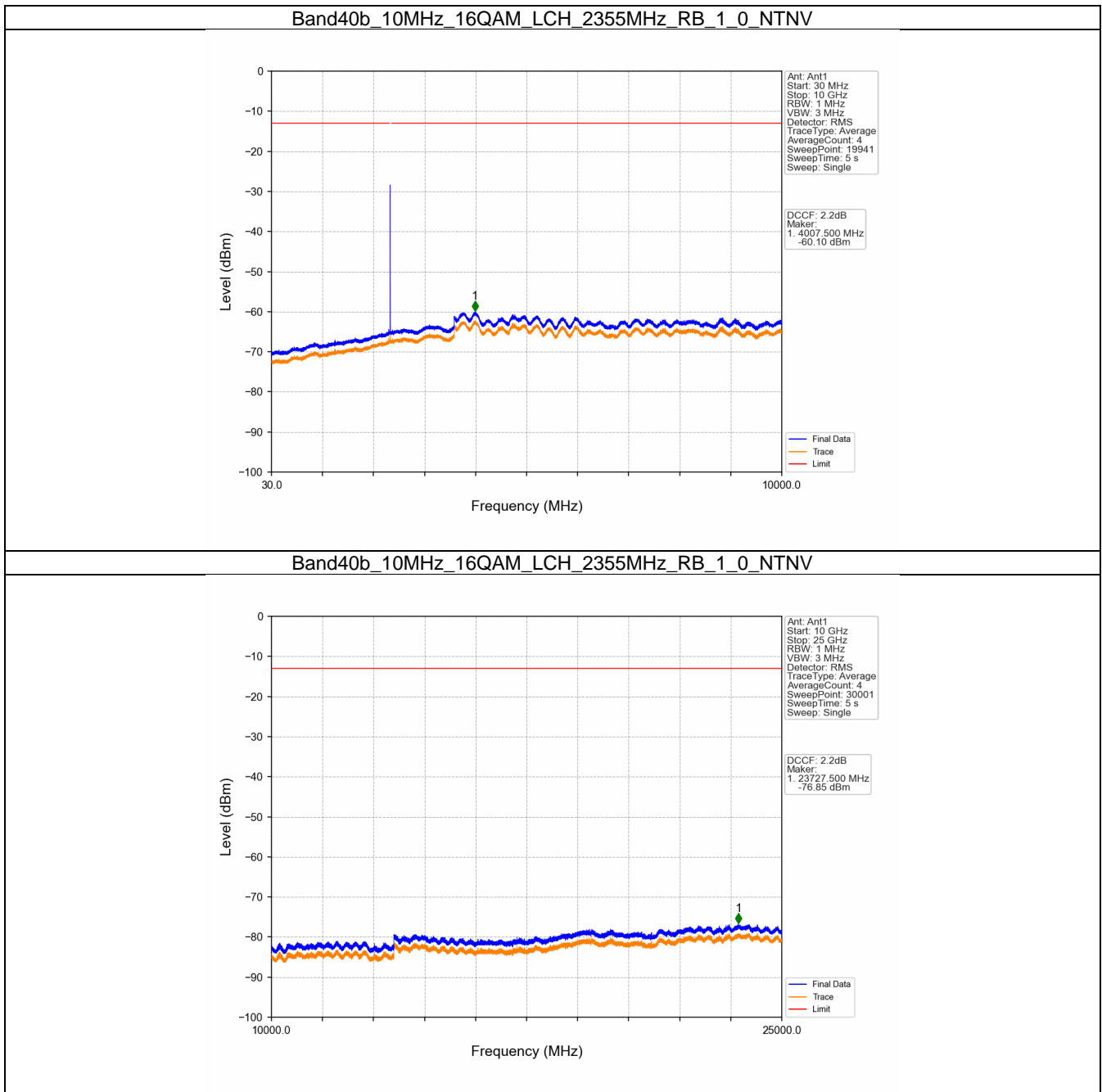
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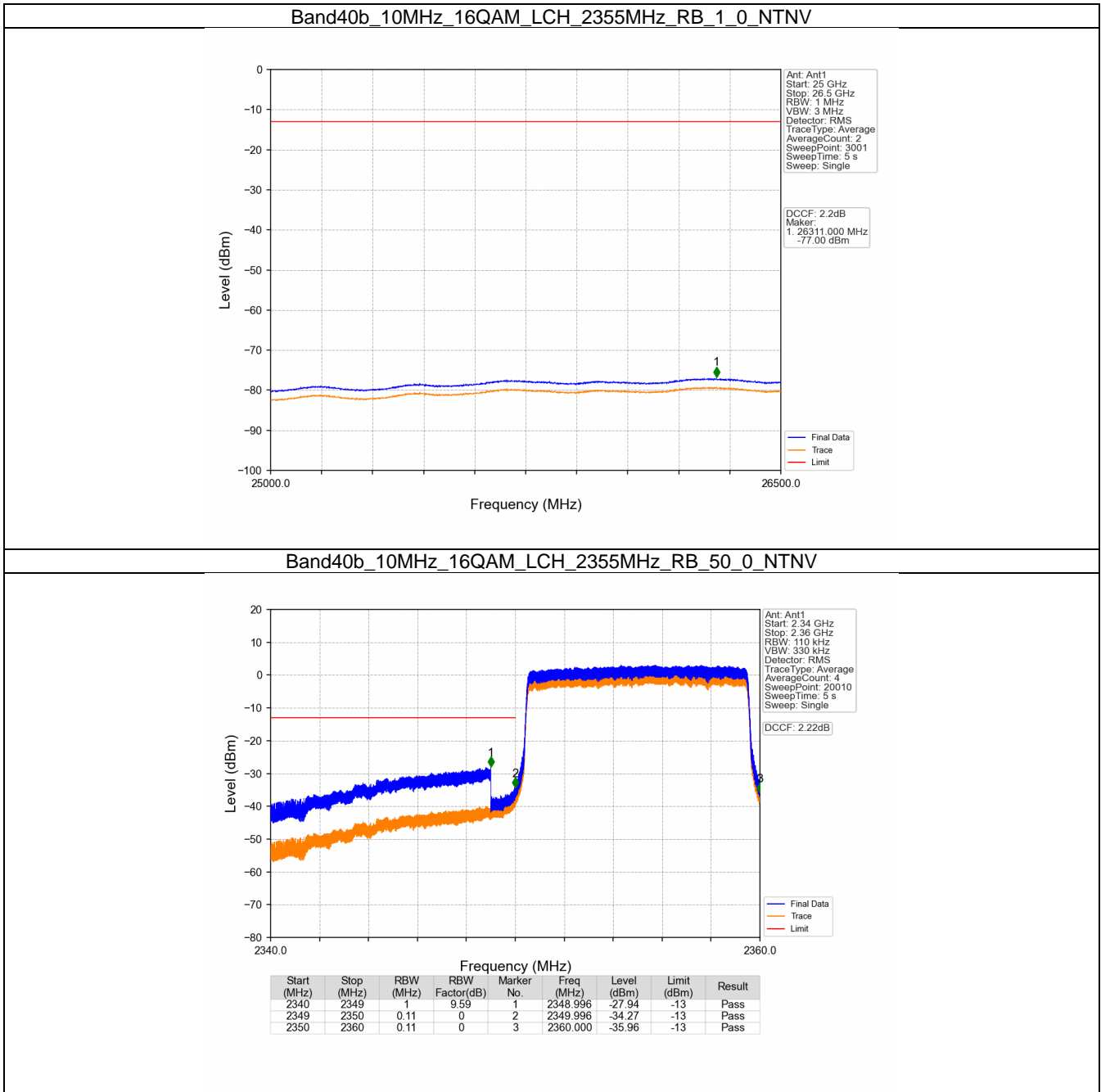
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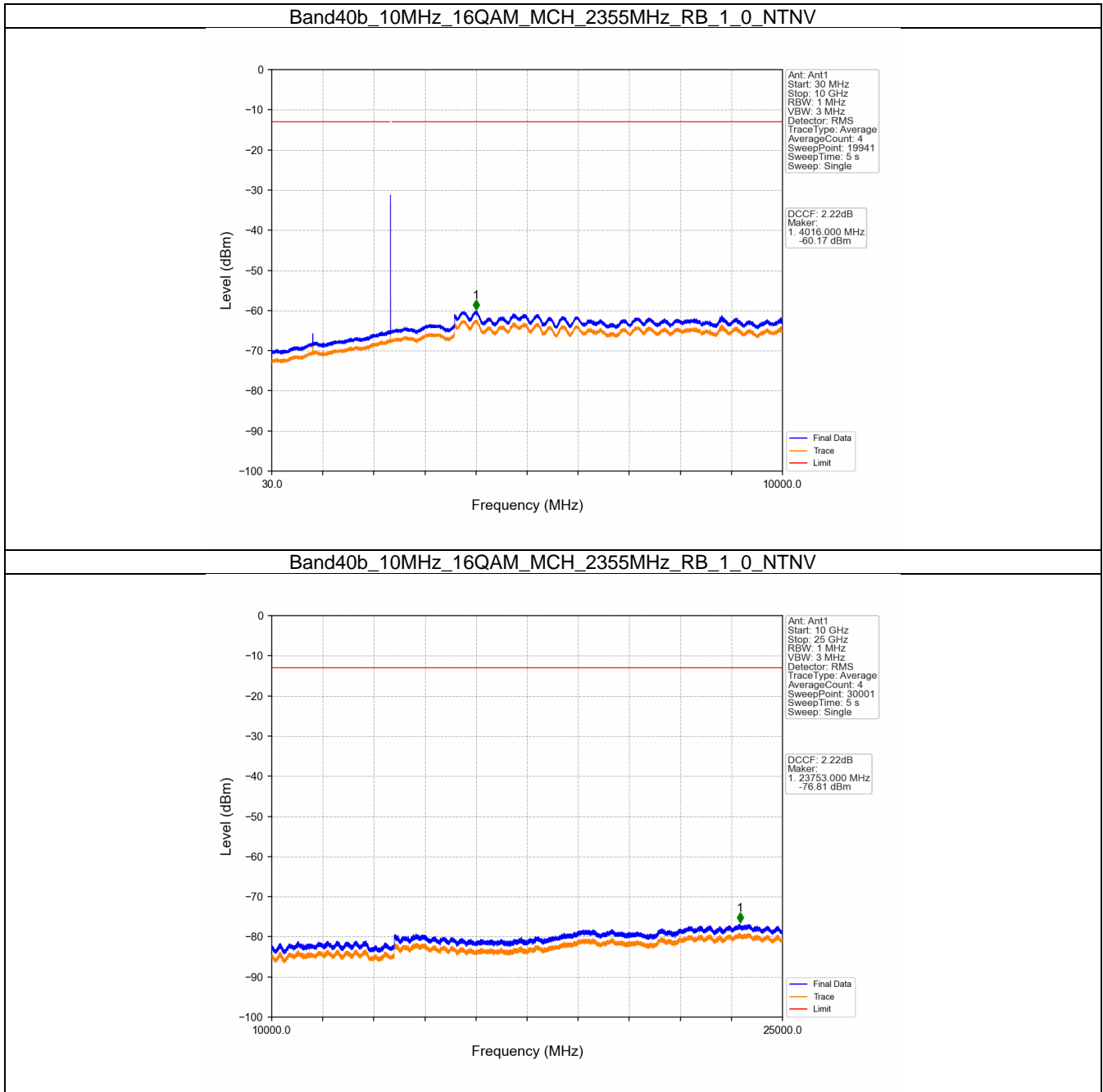
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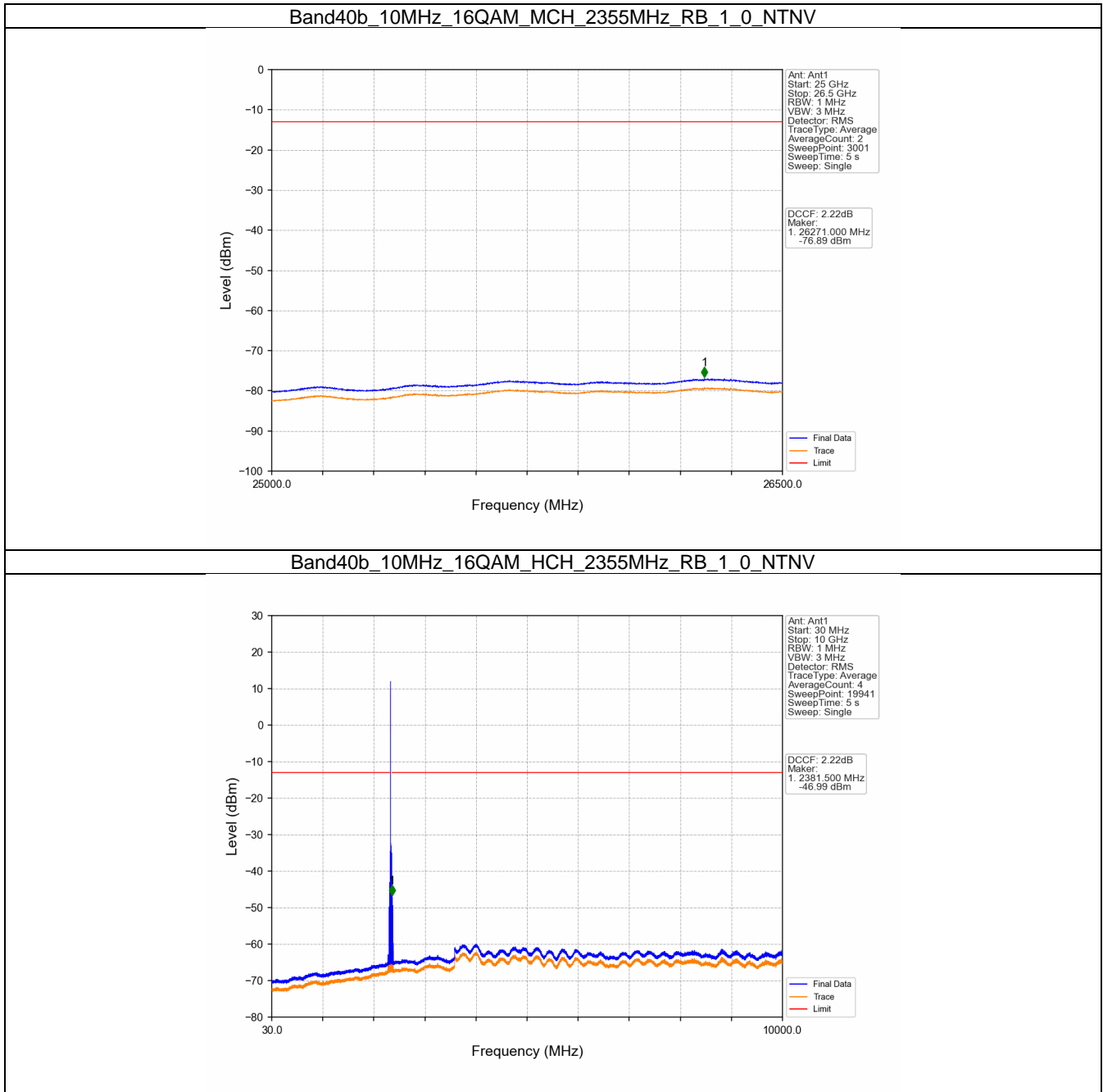
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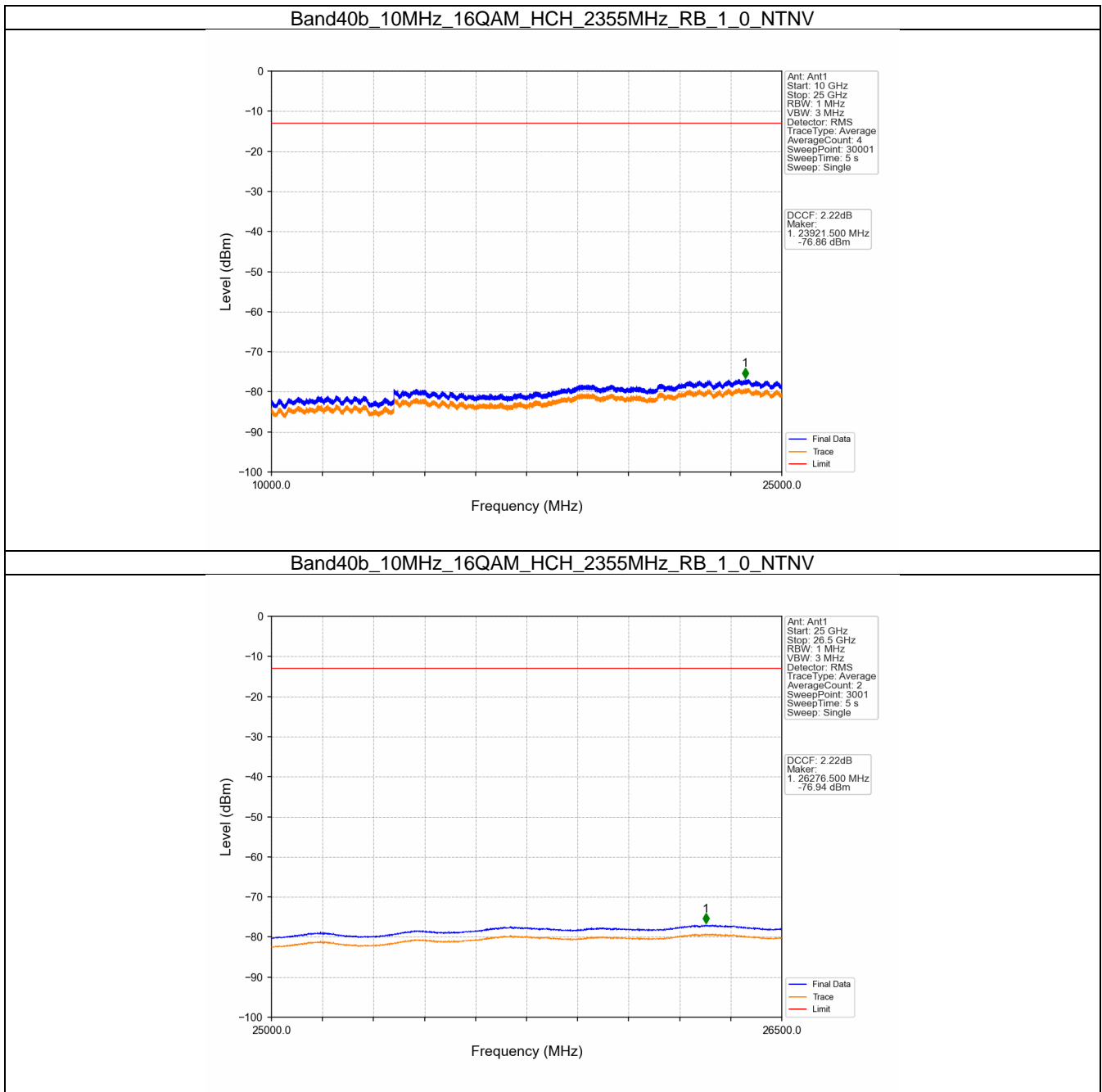
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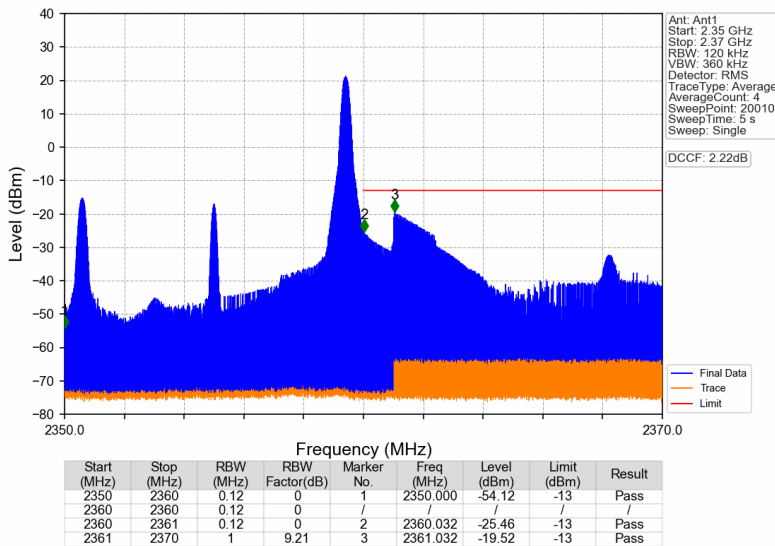
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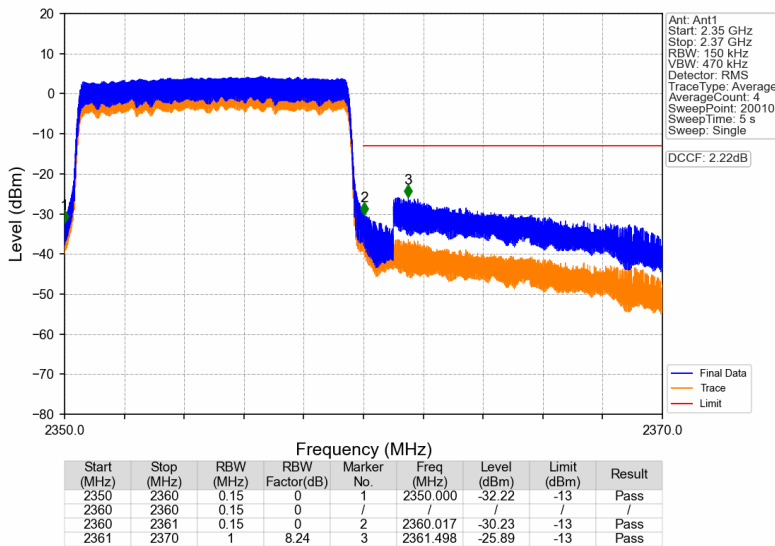
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