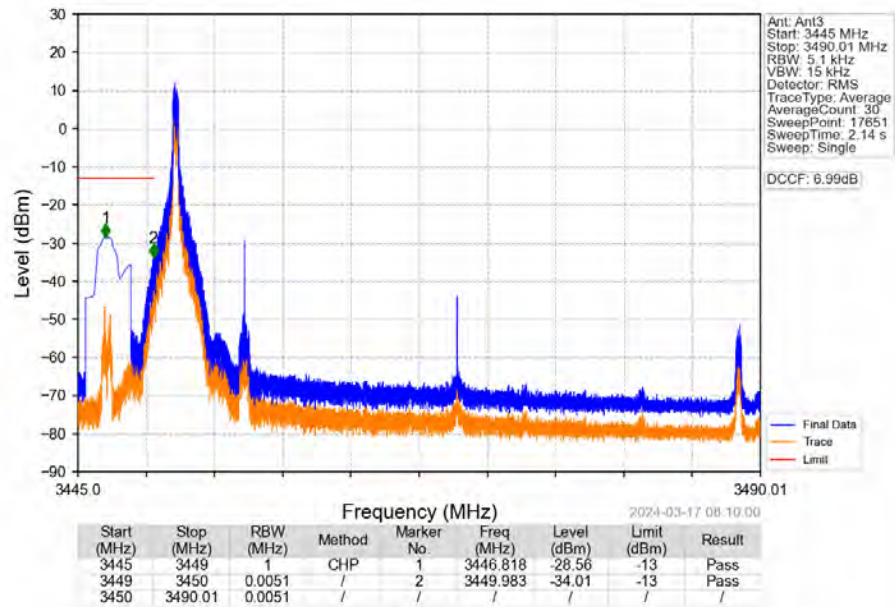
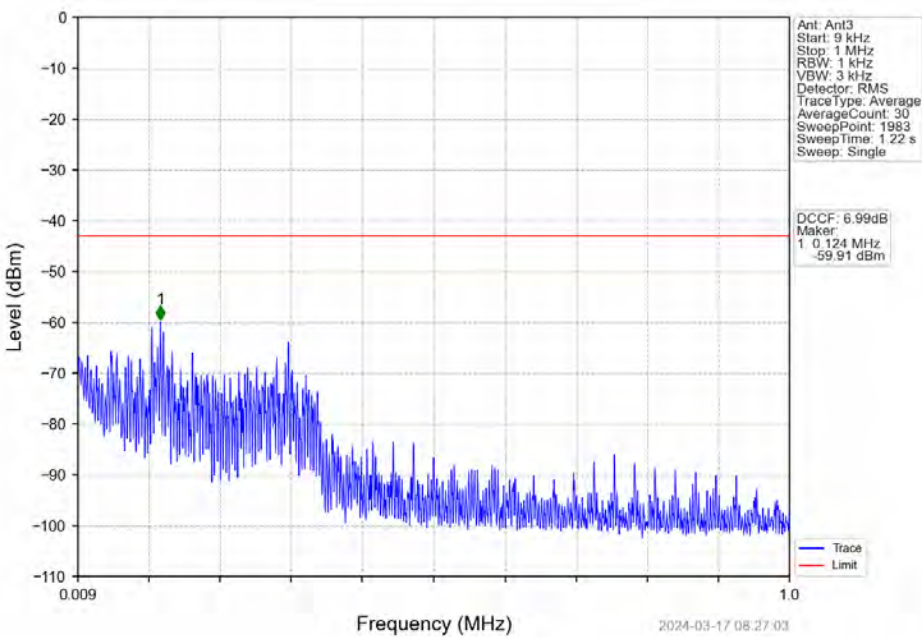


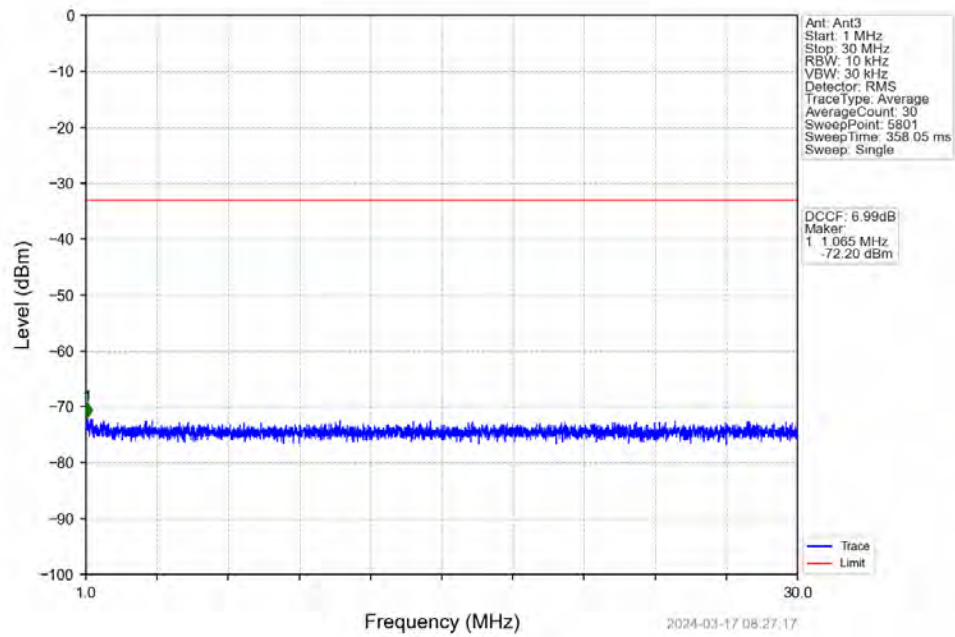
n77d 30kHz SISO NTV 40MHz DFT-s-OFDM PI/2 BPSK 3470.01MHz Inner 1RB Left



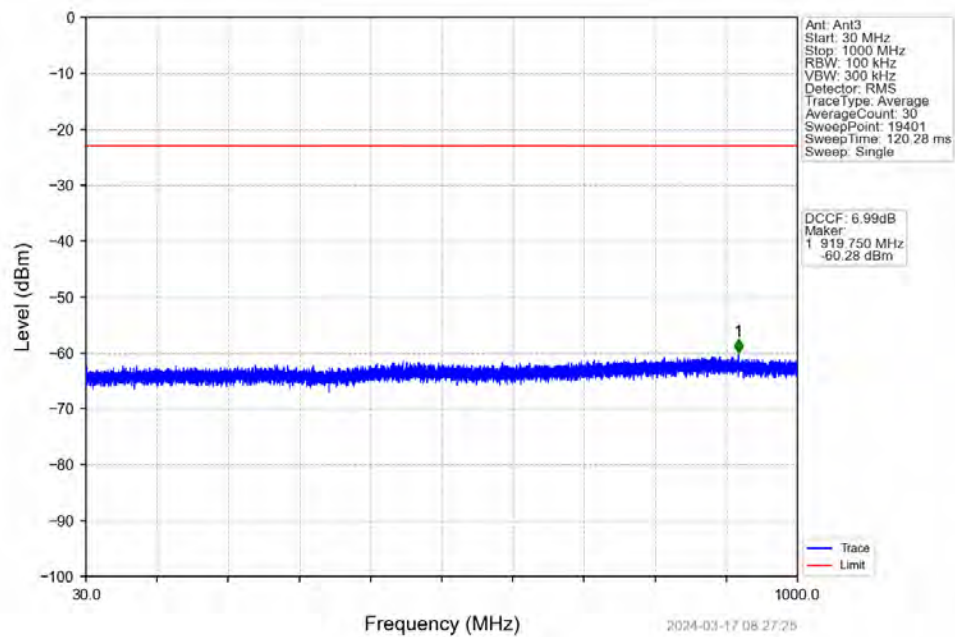
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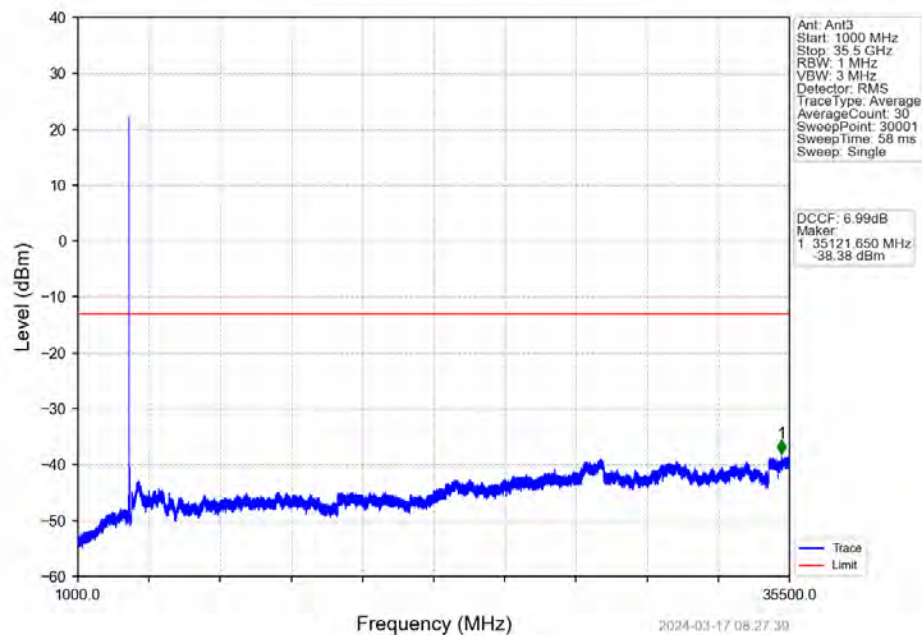
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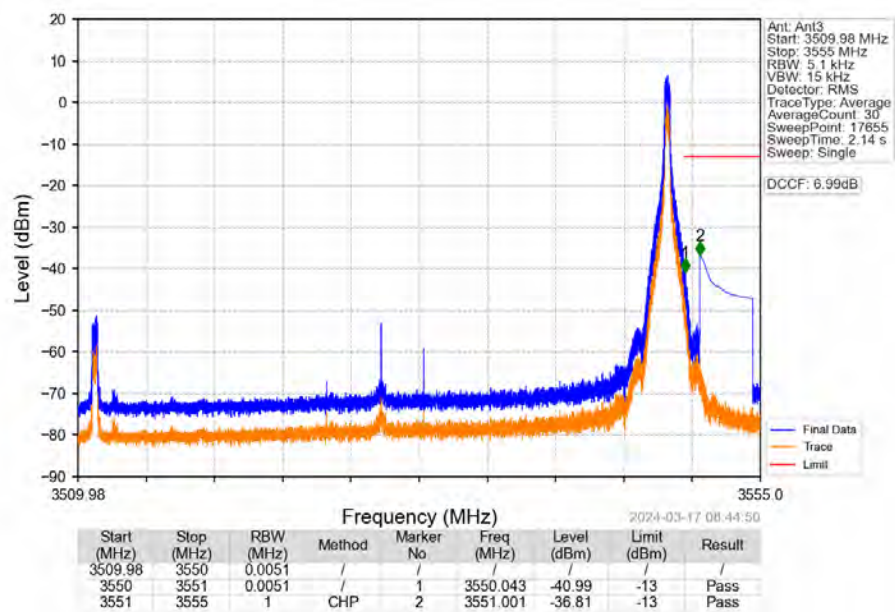
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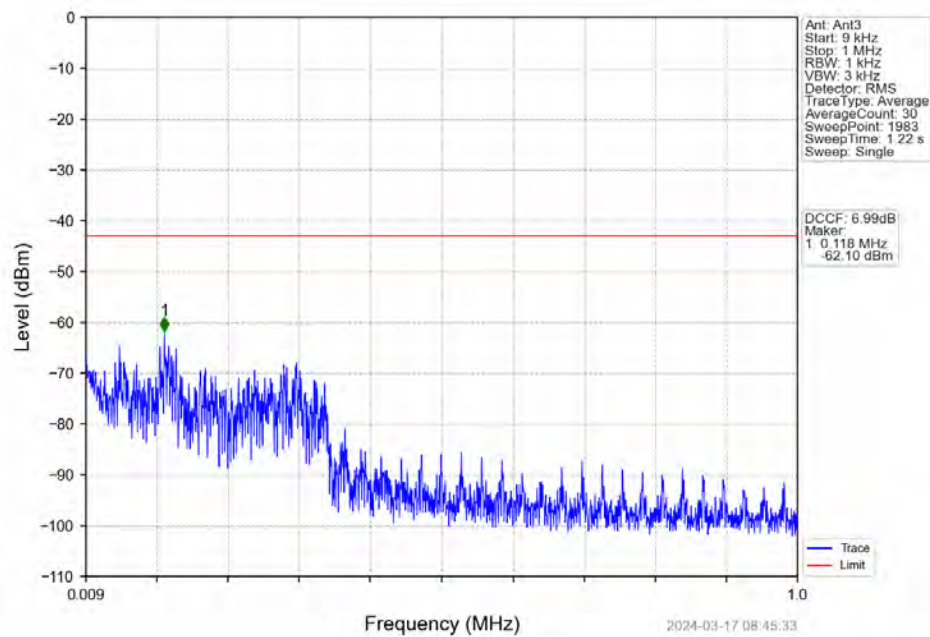
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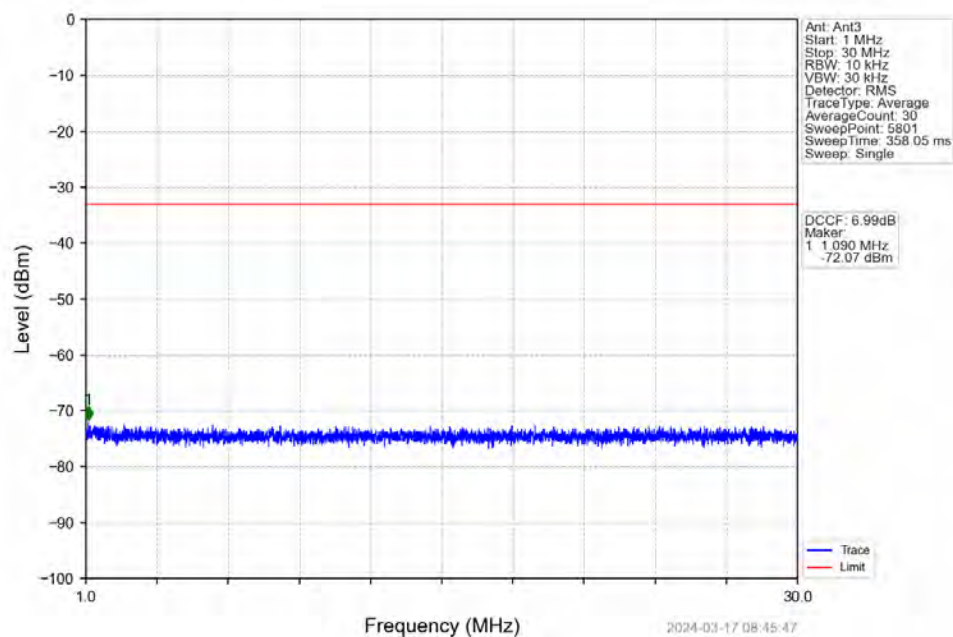
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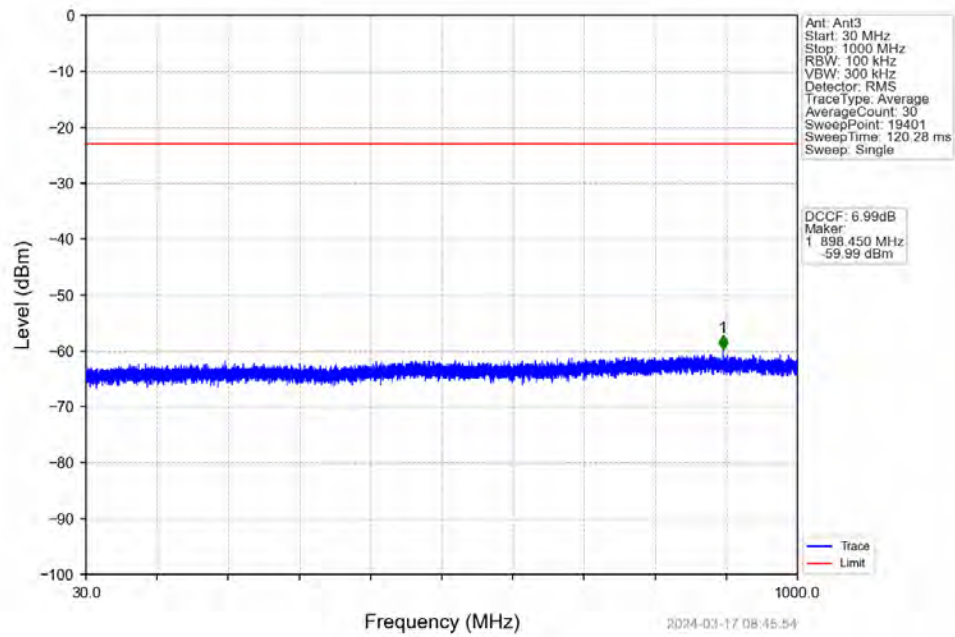
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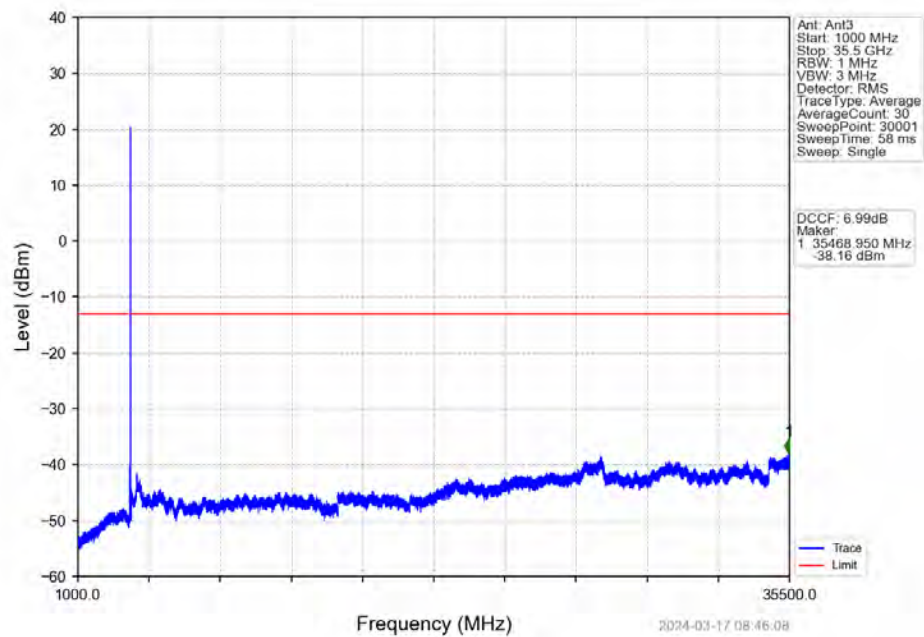
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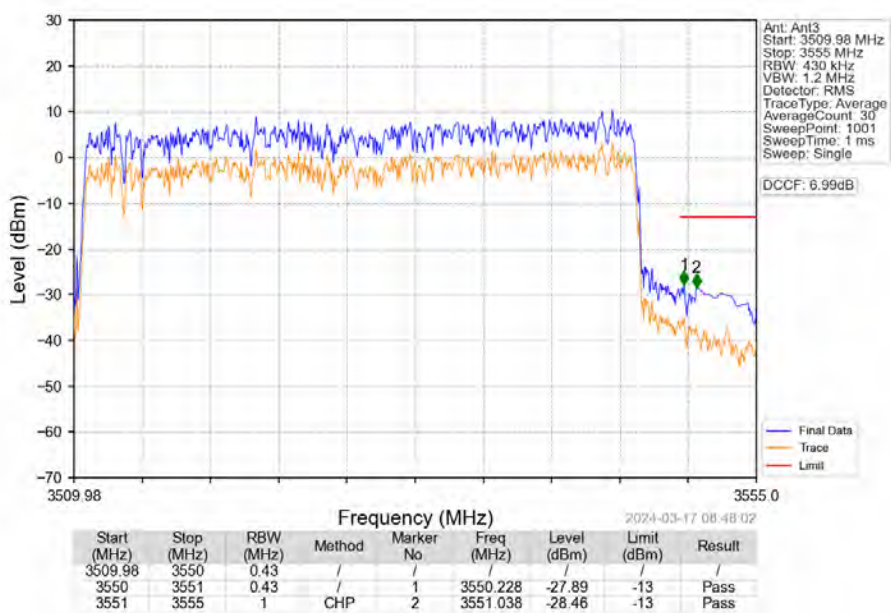
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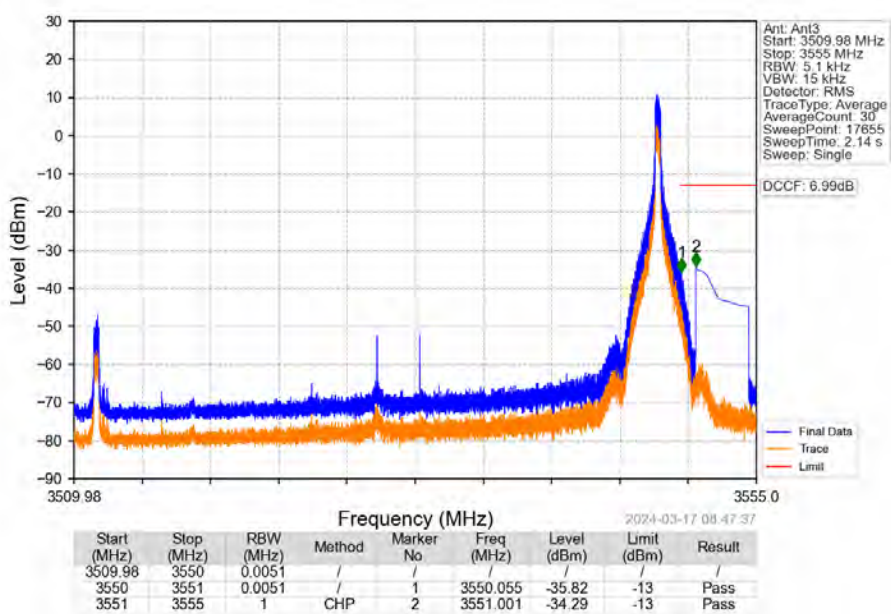
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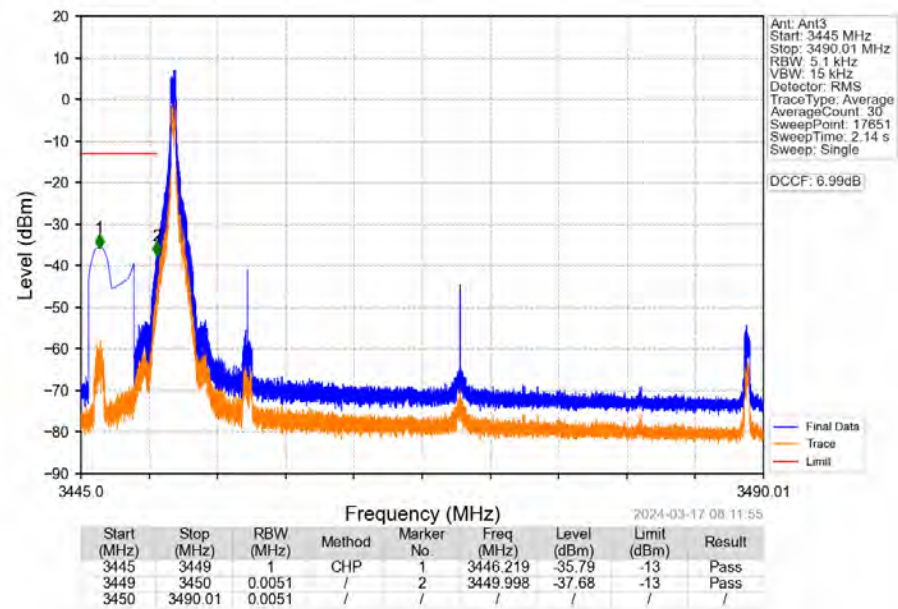
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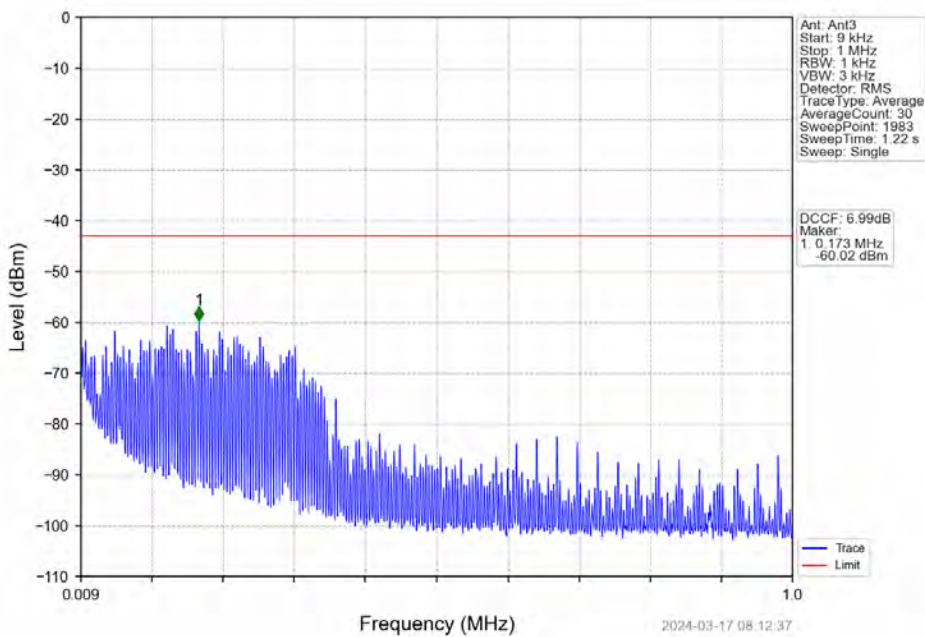
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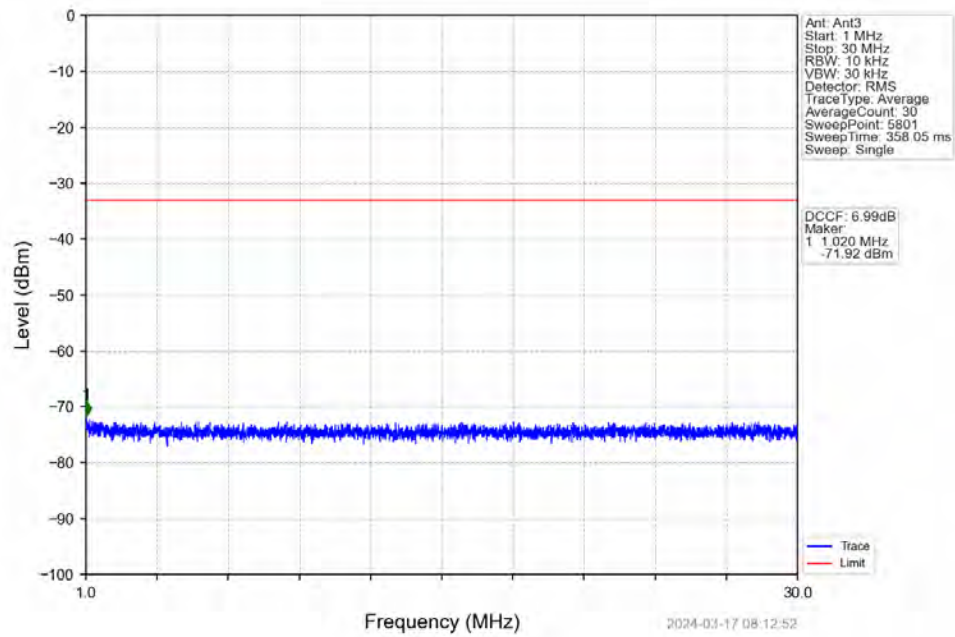
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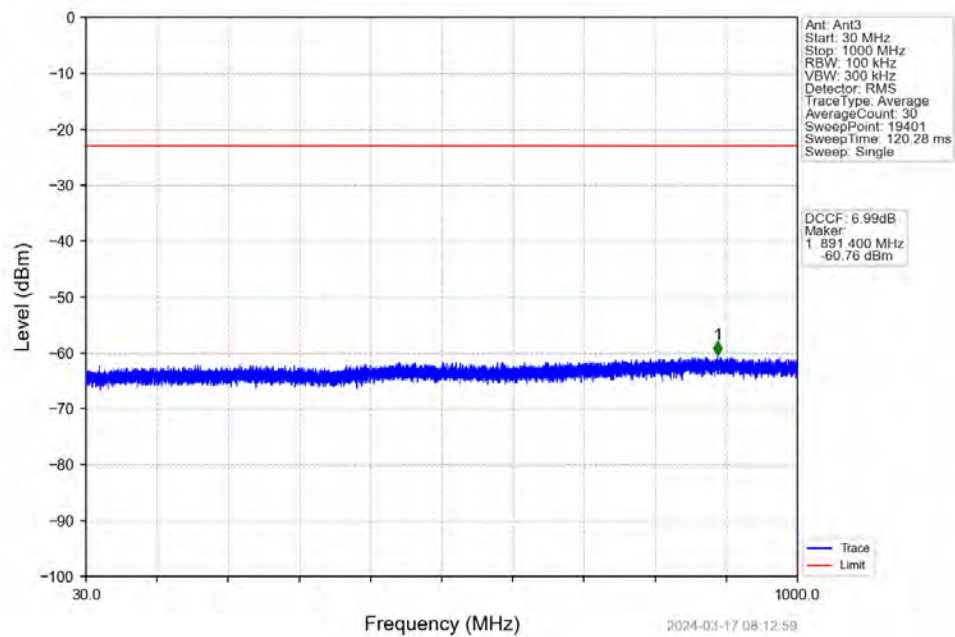
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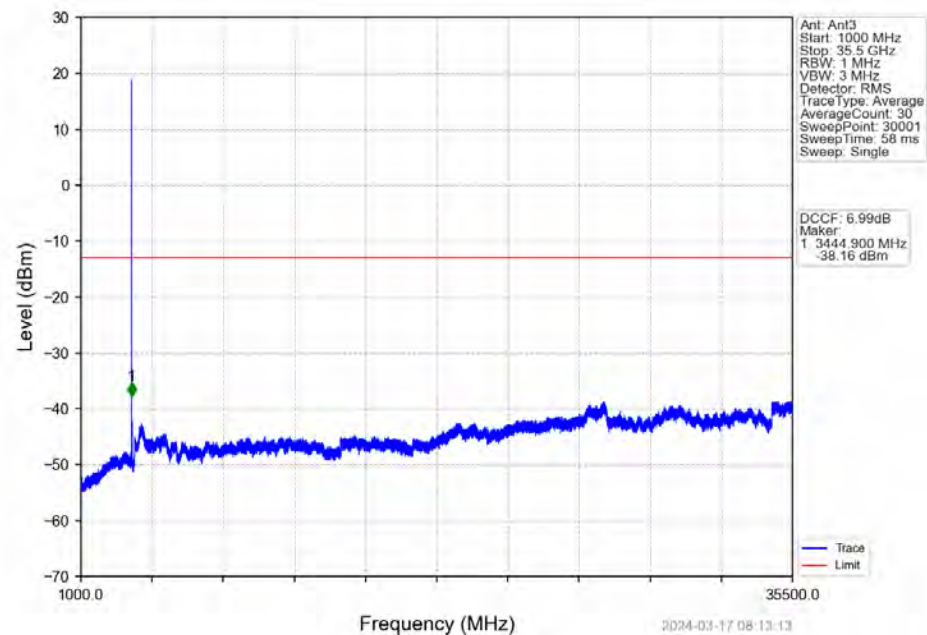
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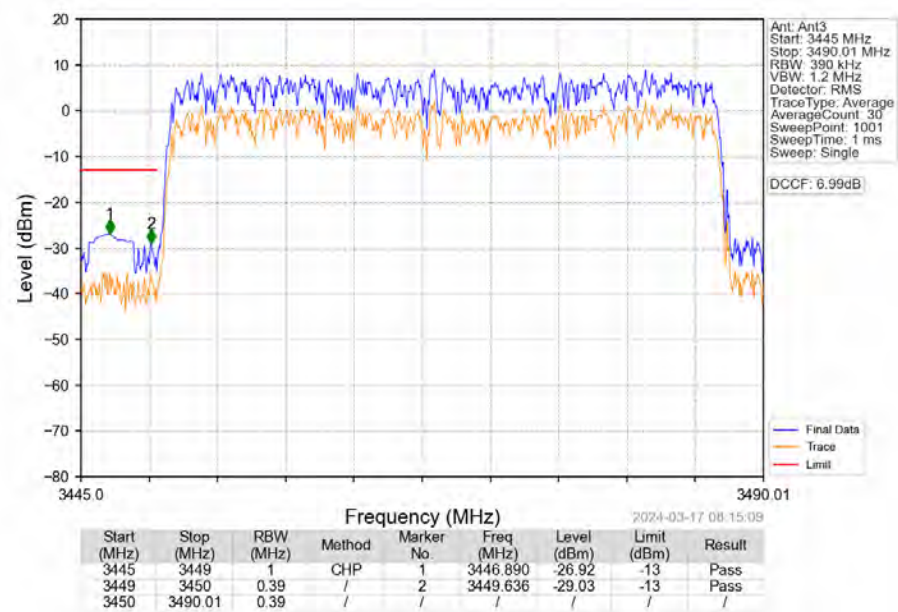
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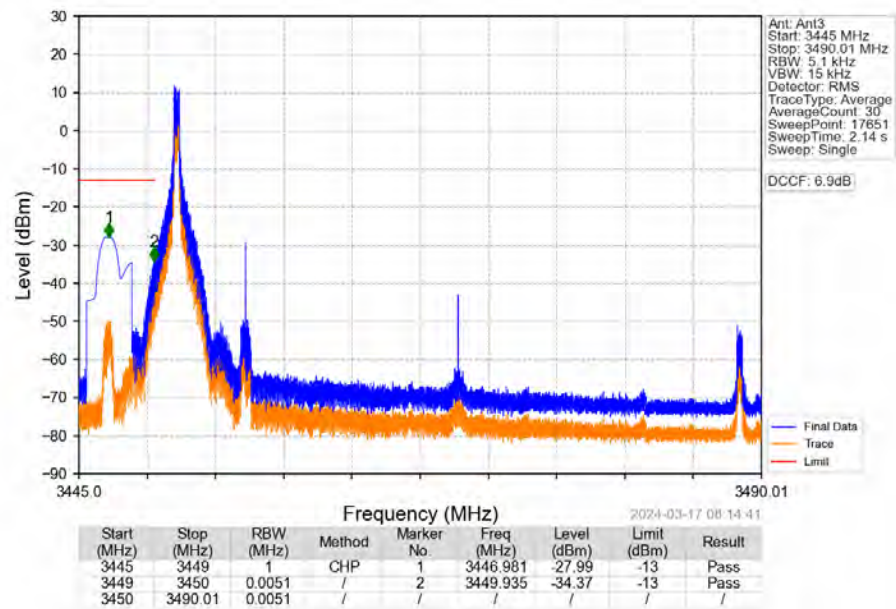
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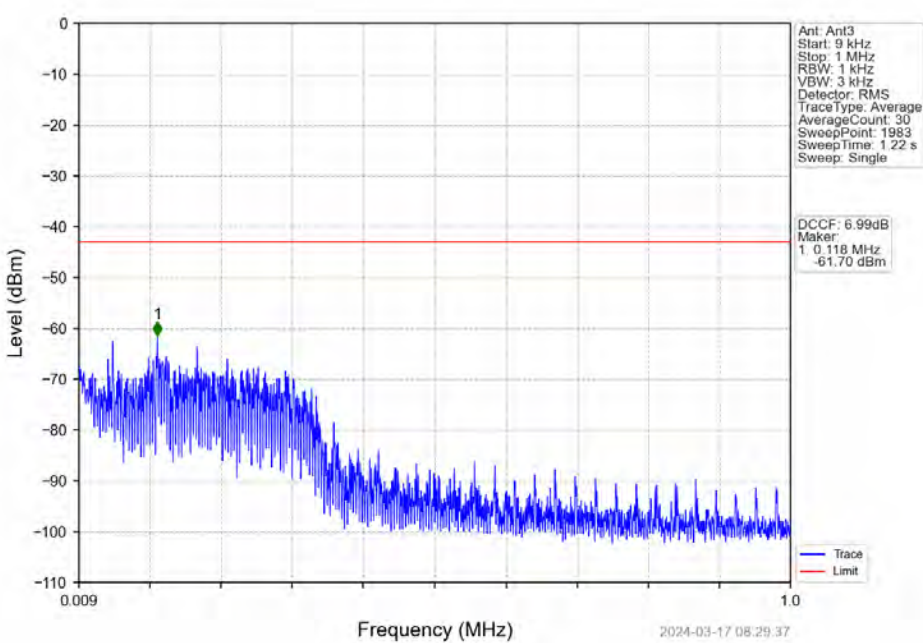
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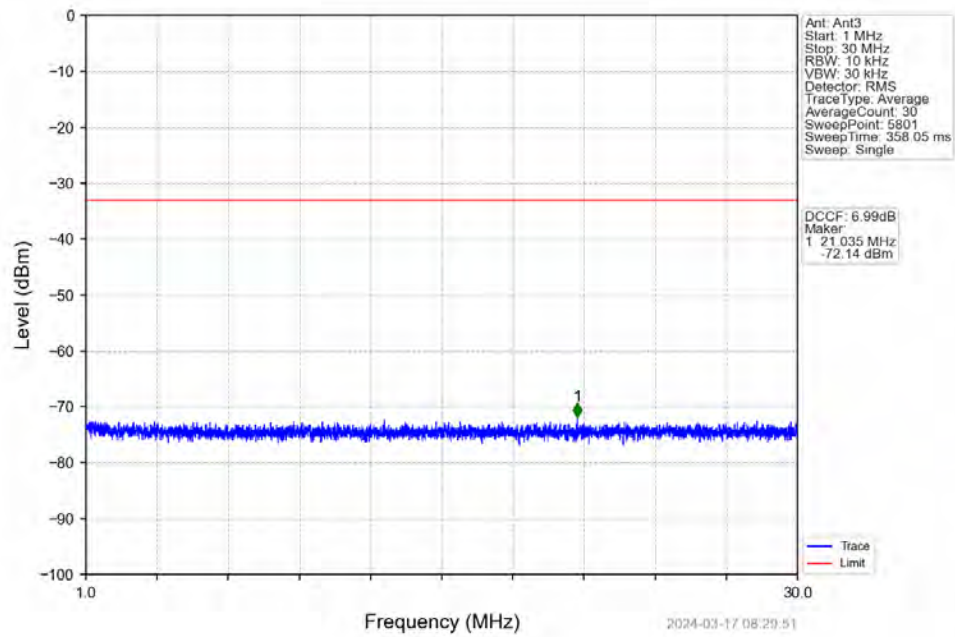
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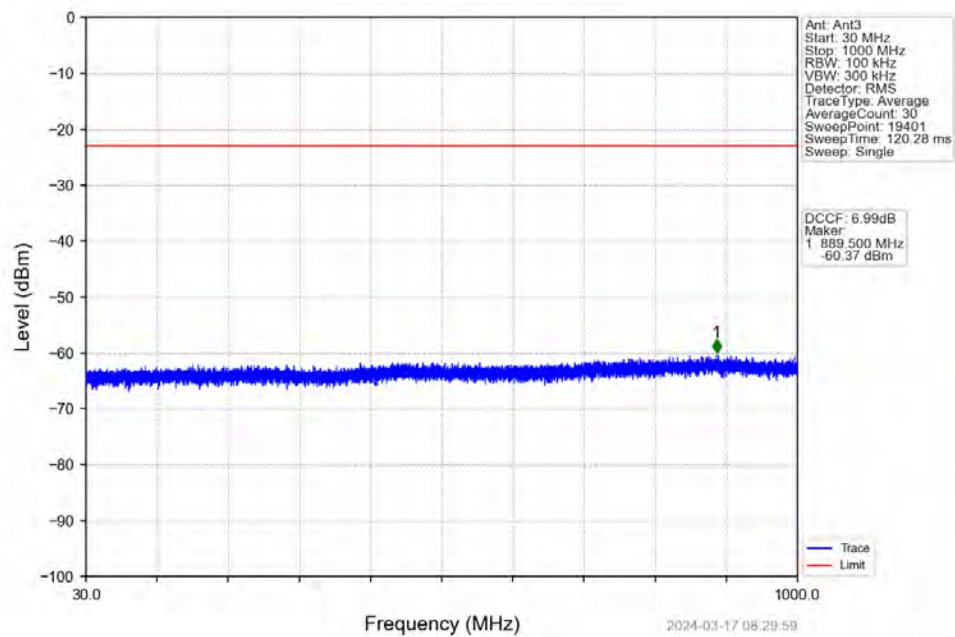
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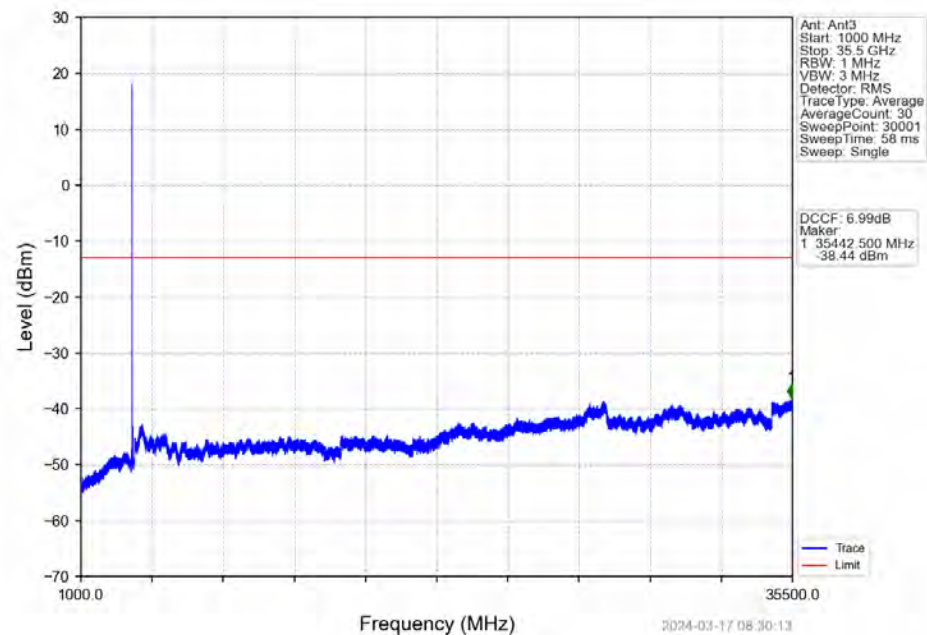
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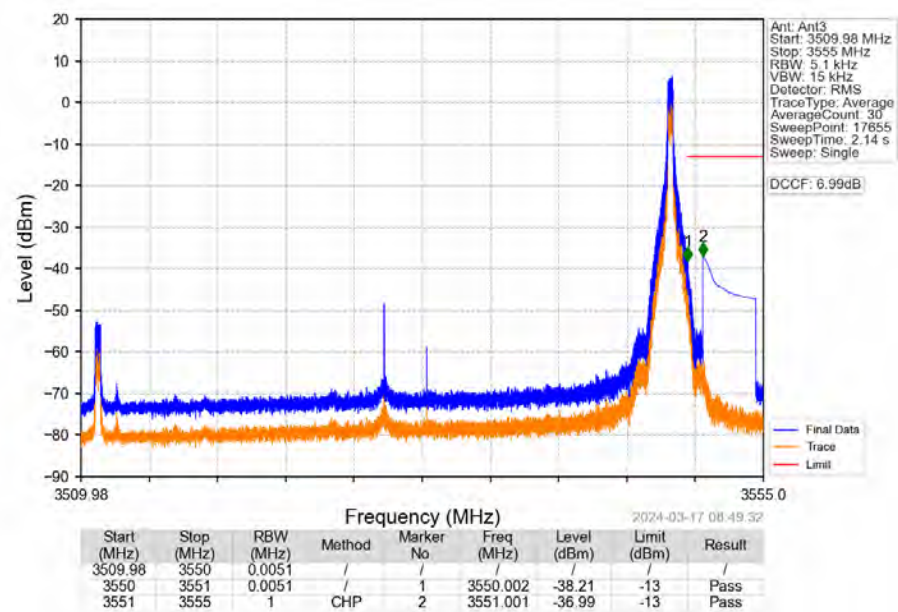
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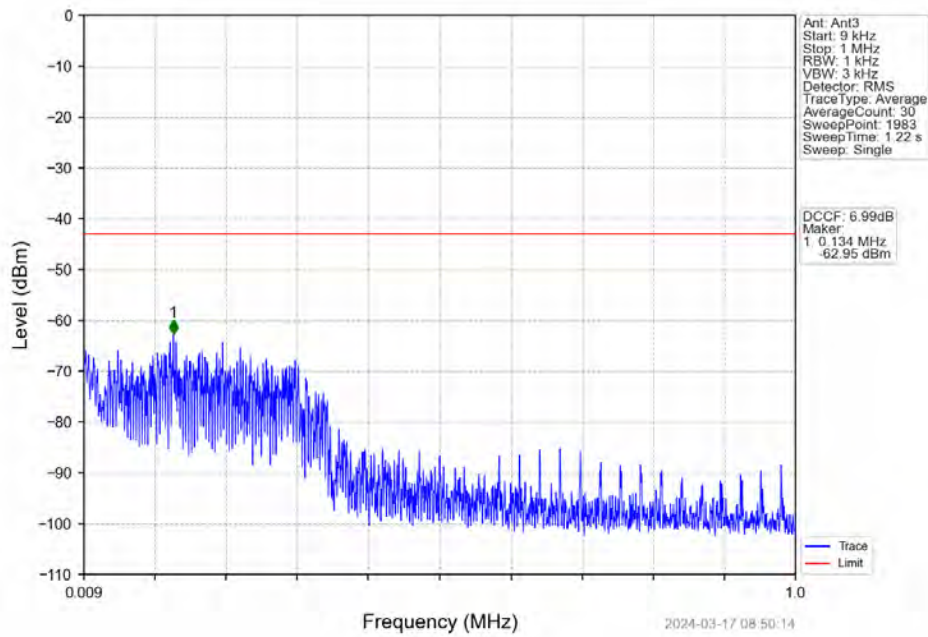
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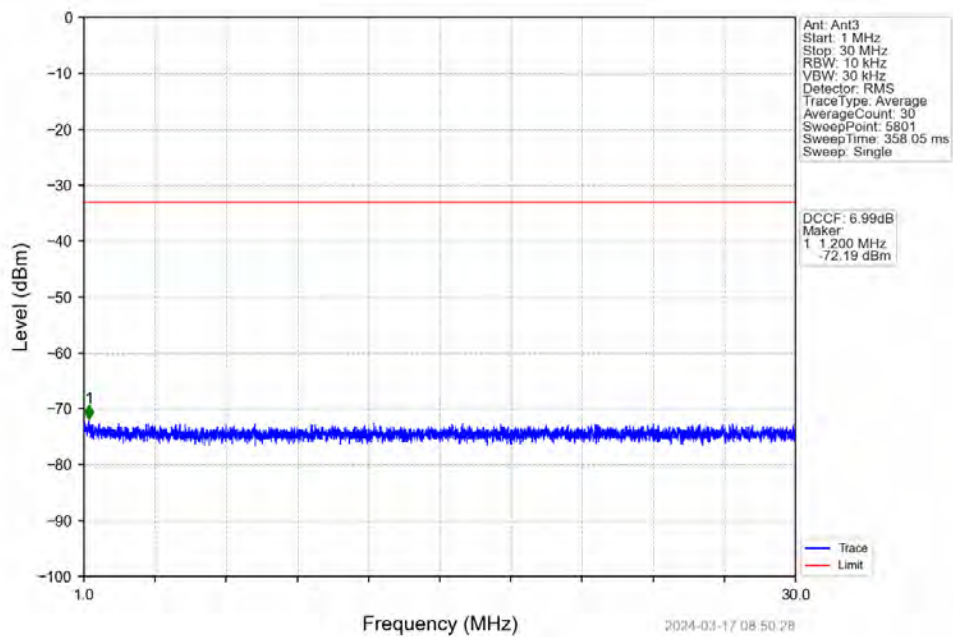
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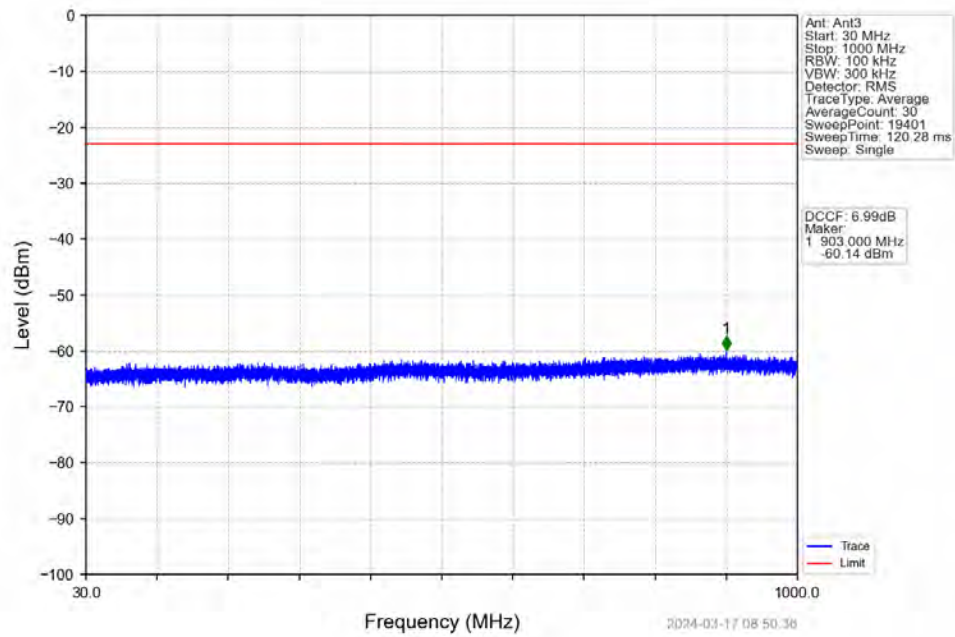
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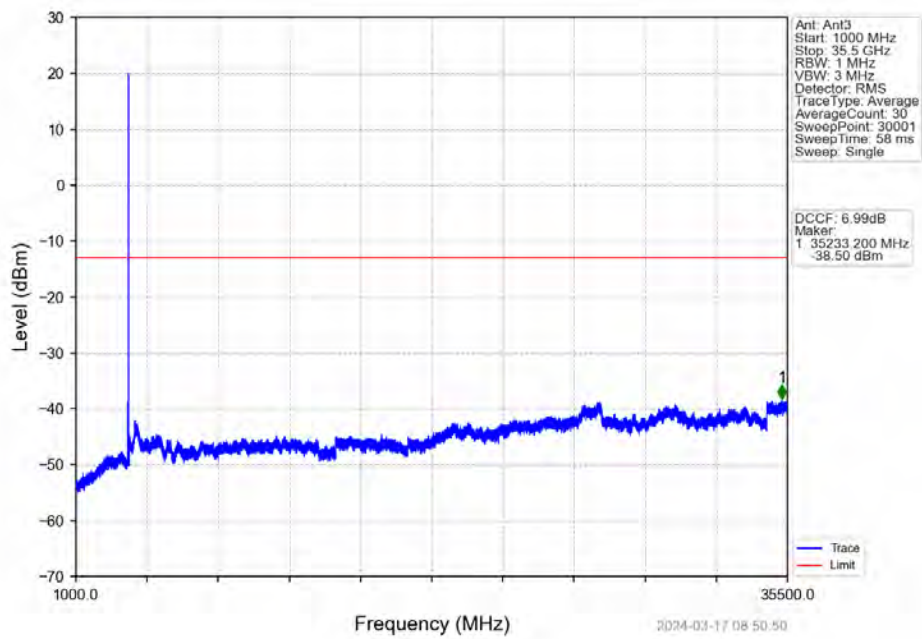
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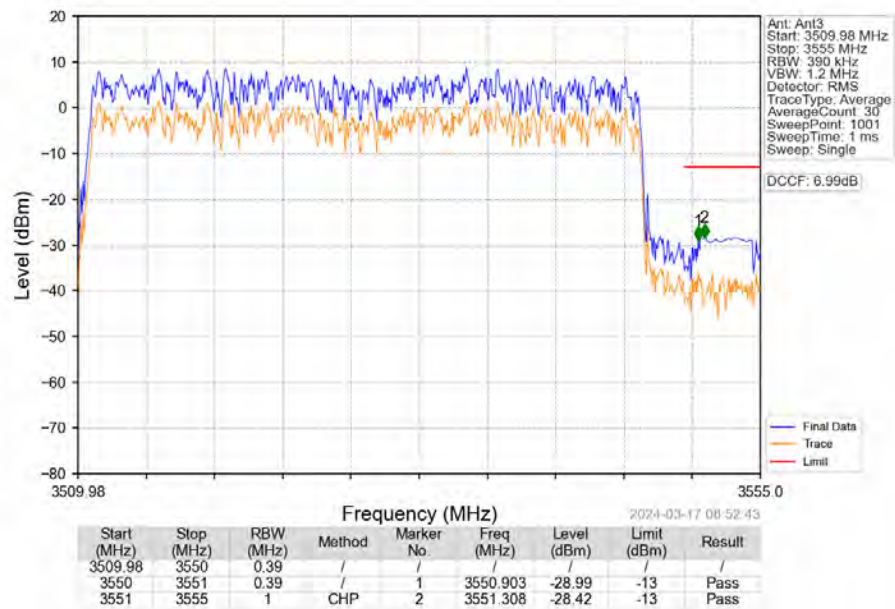
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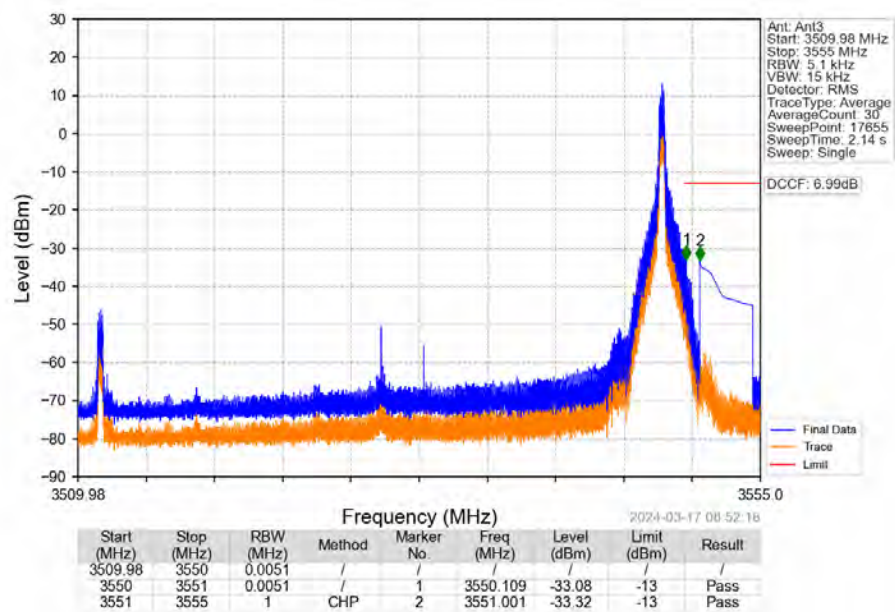
n77d 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Edge 1RB Right



n77d 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Outer Full



n77d 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3529.98MHz Inner 1RB Right

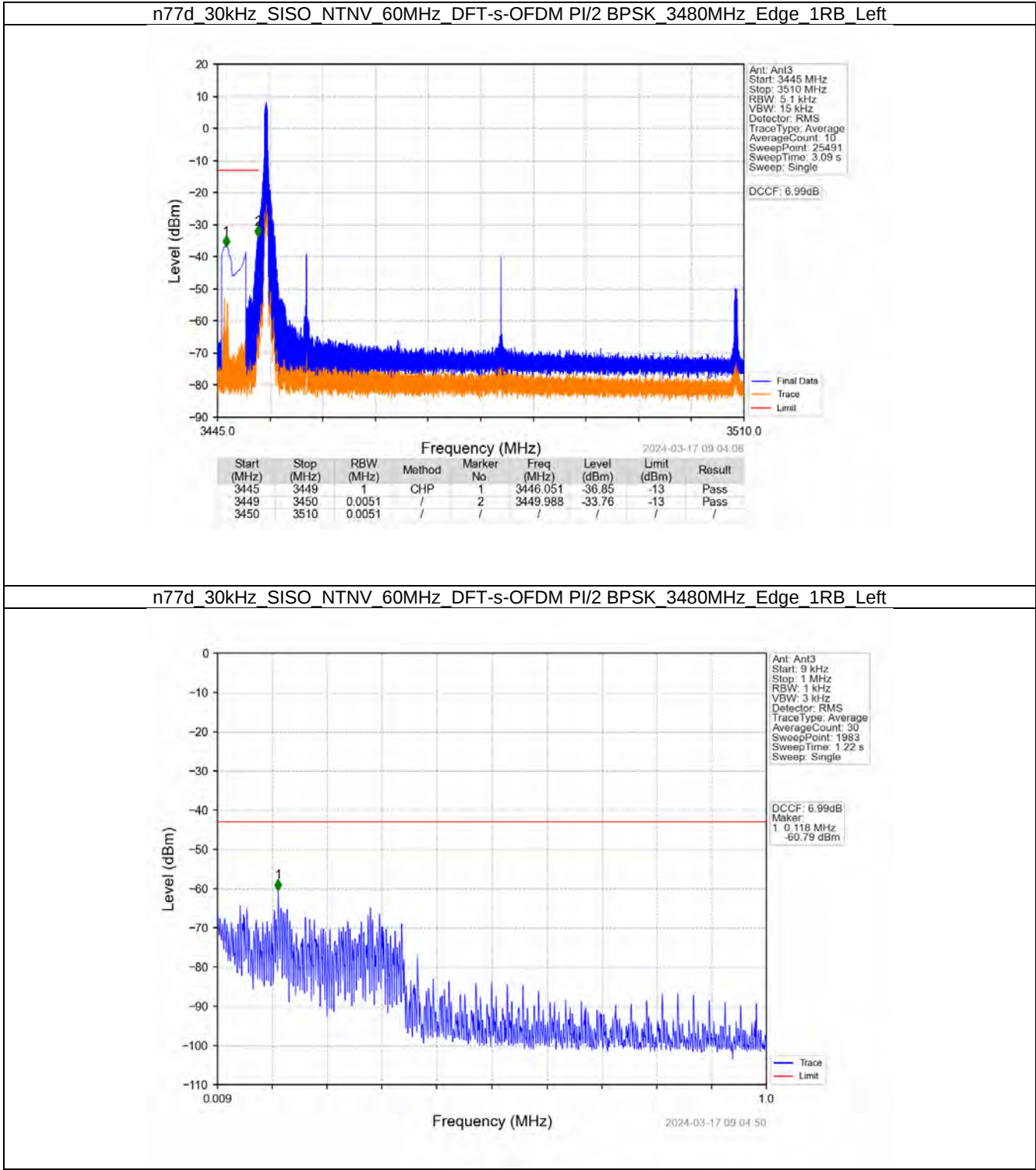


5.4 30k_SISO_60MHz_NTNV

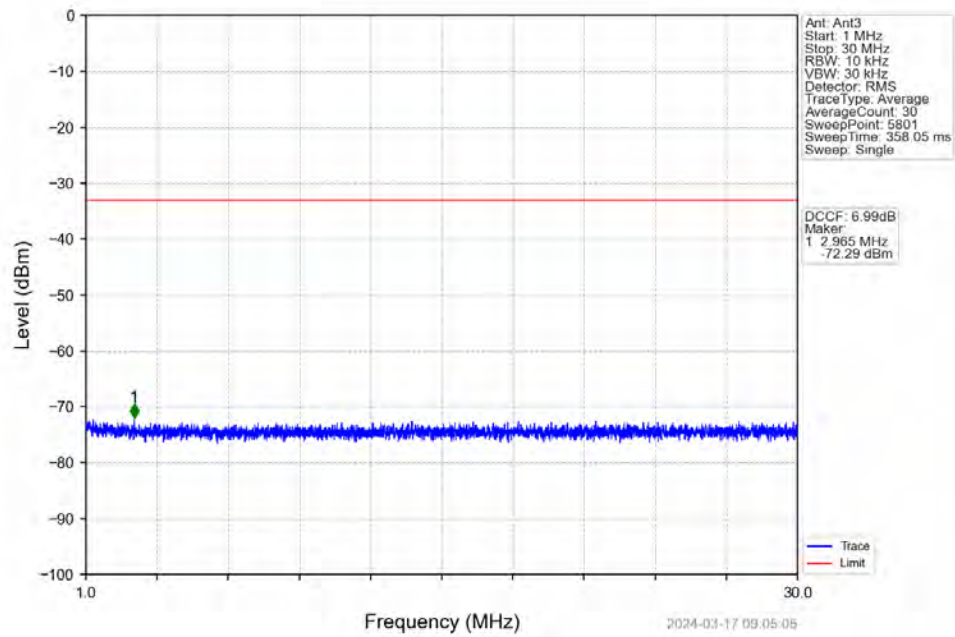
5.4.1 Test Result

5G NR n77d SCS=30kHz SISO 60MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant7	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	3480	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3519.99	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
	Inner_1RB_Right		Refer To Test Graph				Pass	
	DFT-s-OFDM QPSK	3480	Edge_1RB_Left	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
Inner_1RB_Left			Refer To Test Graph				Pass	
3500.01		Edge_1RB_Left	Refer To Test Graph				Pass	
		3519.99	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
Inner_1RB_Right	Refer To Test Graph				Pass			

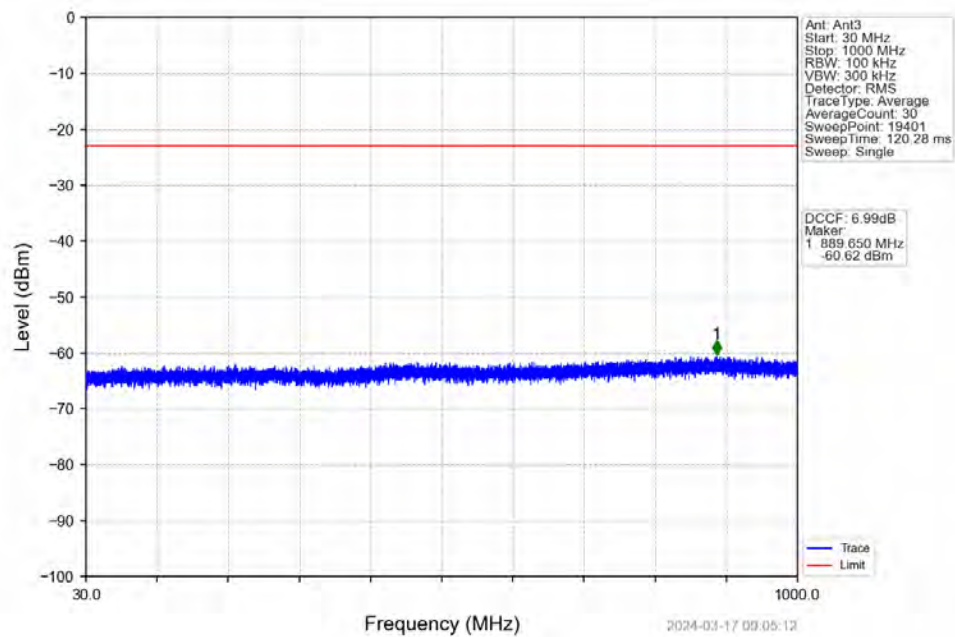
5.4.2 Test Graph



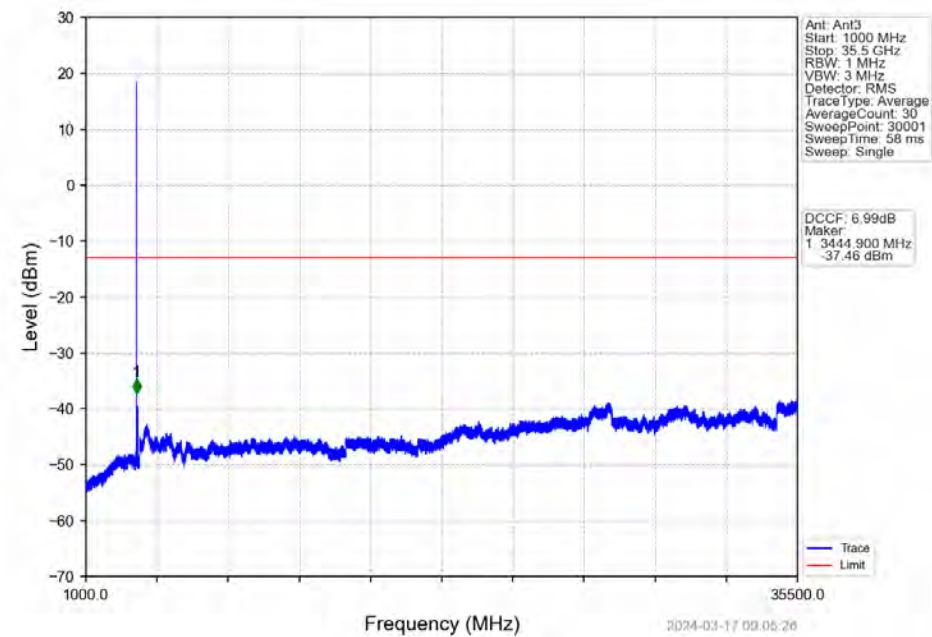
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3480MHz Edge 1RB Left



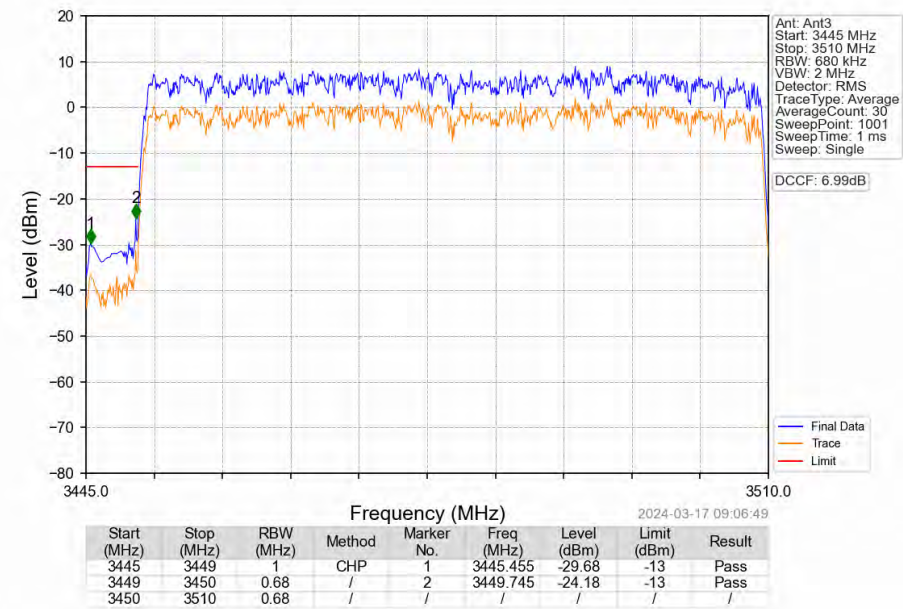
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3480MHz Edge 1RB Left



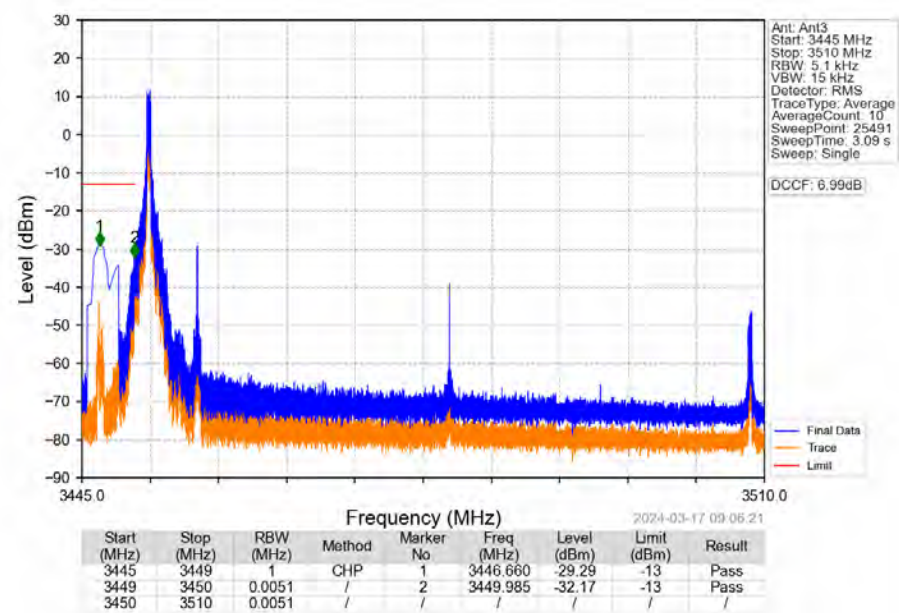
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3480MHz Edge 1RB Left



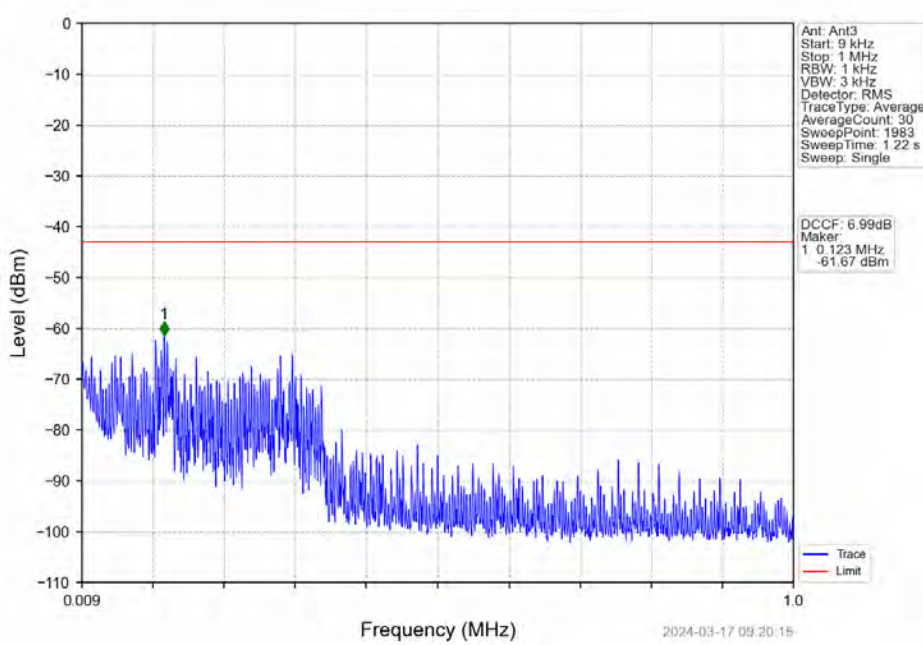
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3480MHz Outer Full



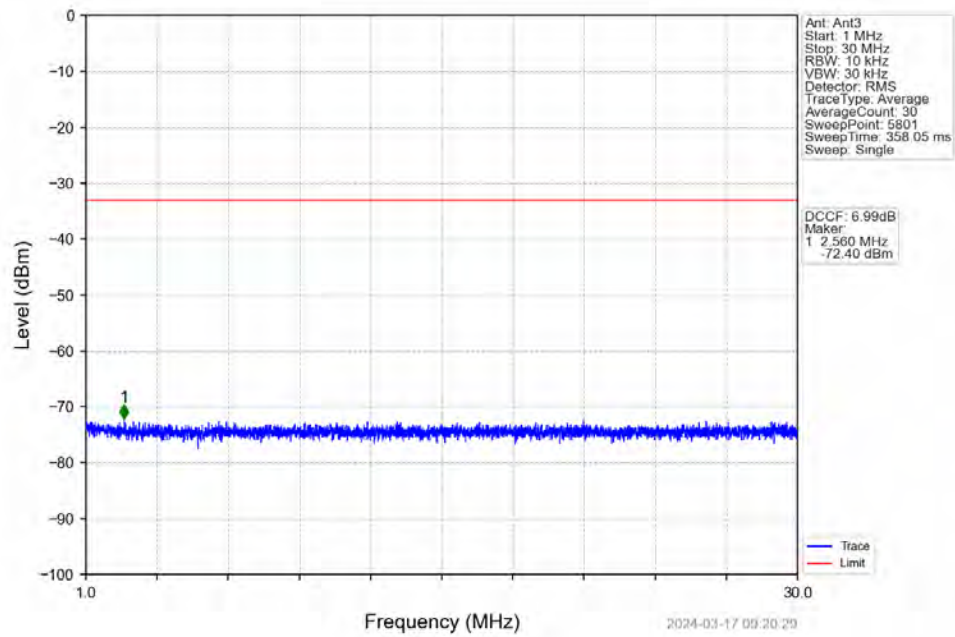
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3480MHz Inner 1RB Left



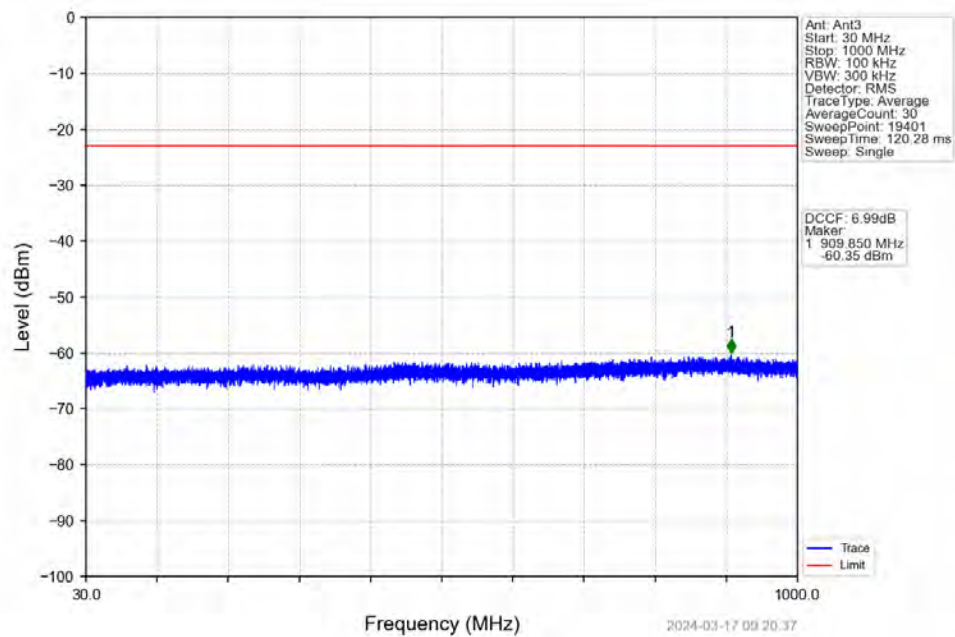
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



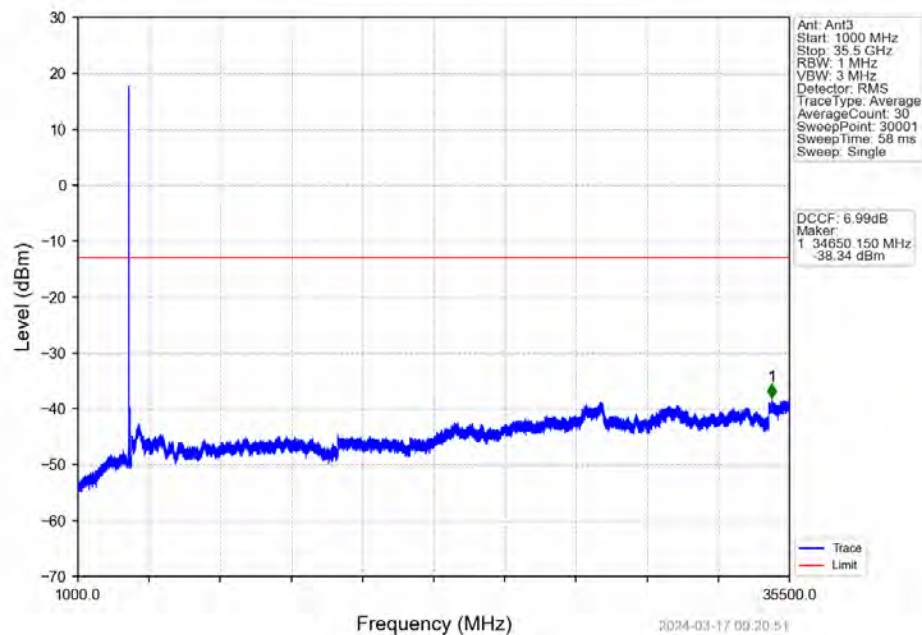
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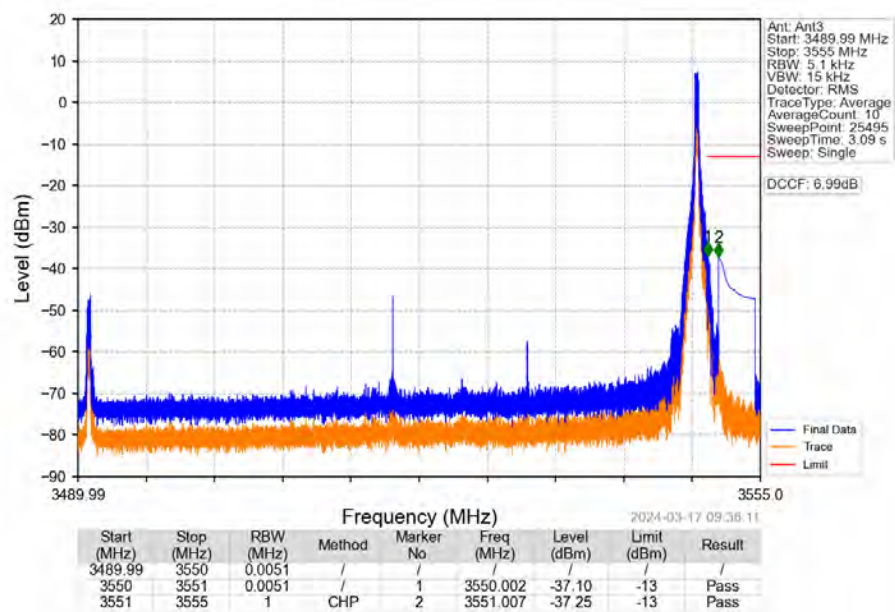
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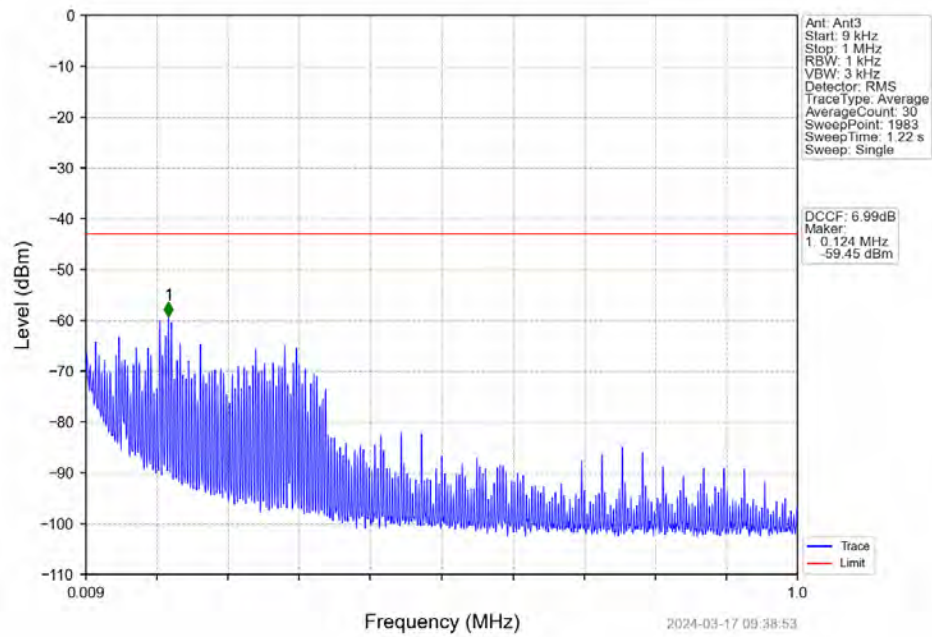
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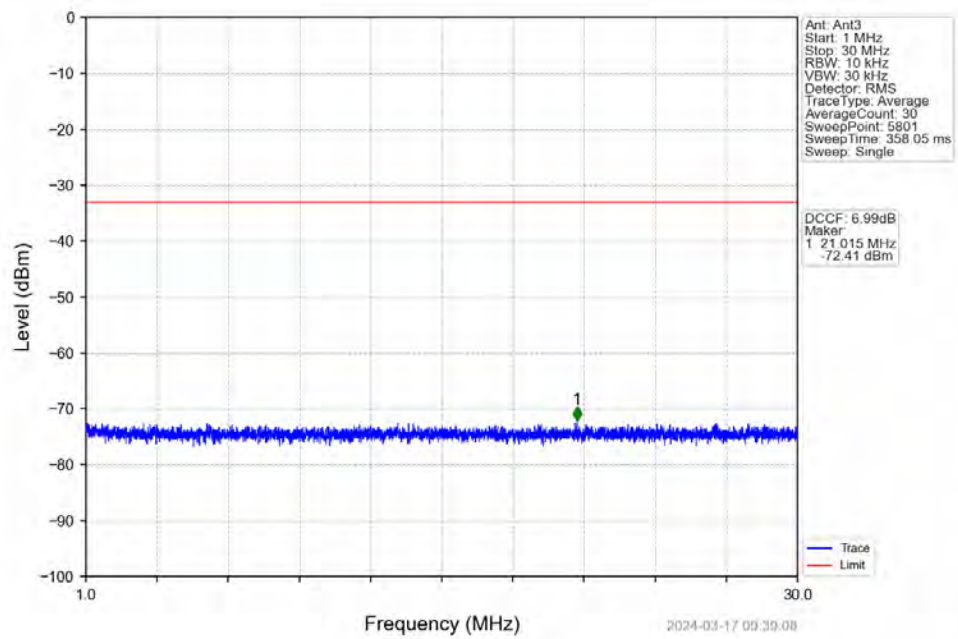
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3519.99MHz Edge 1RB Right



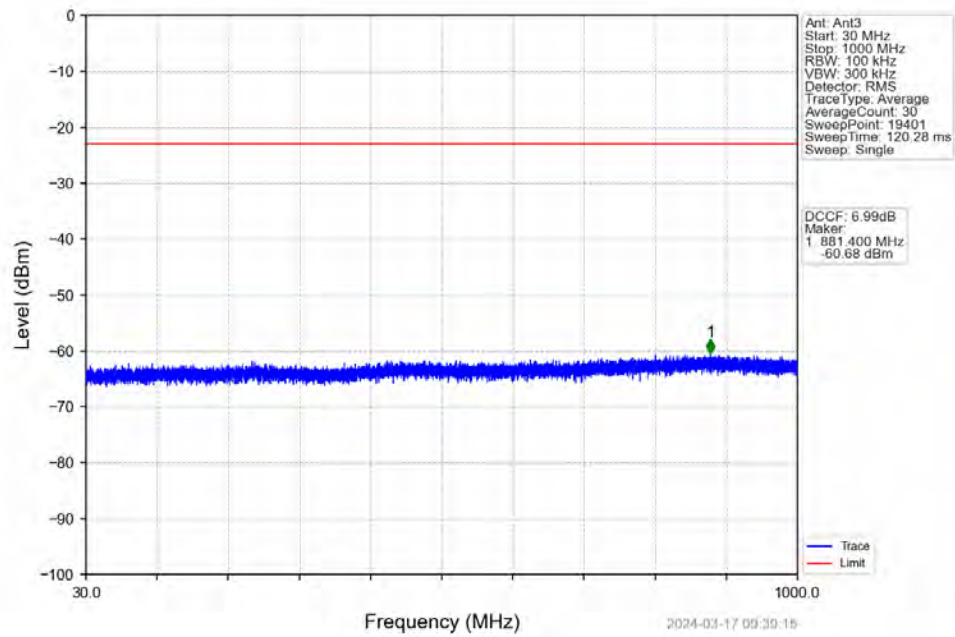
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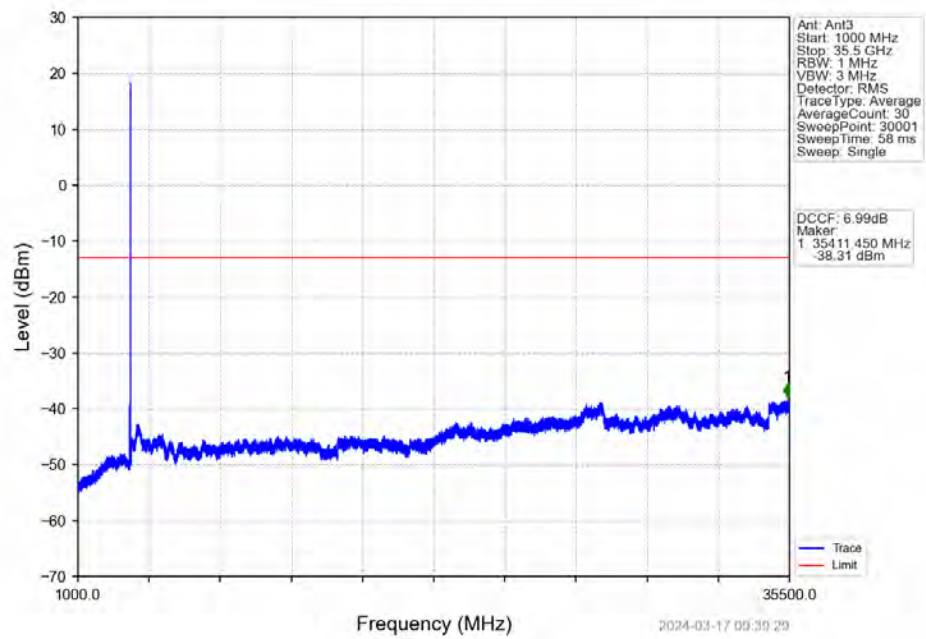
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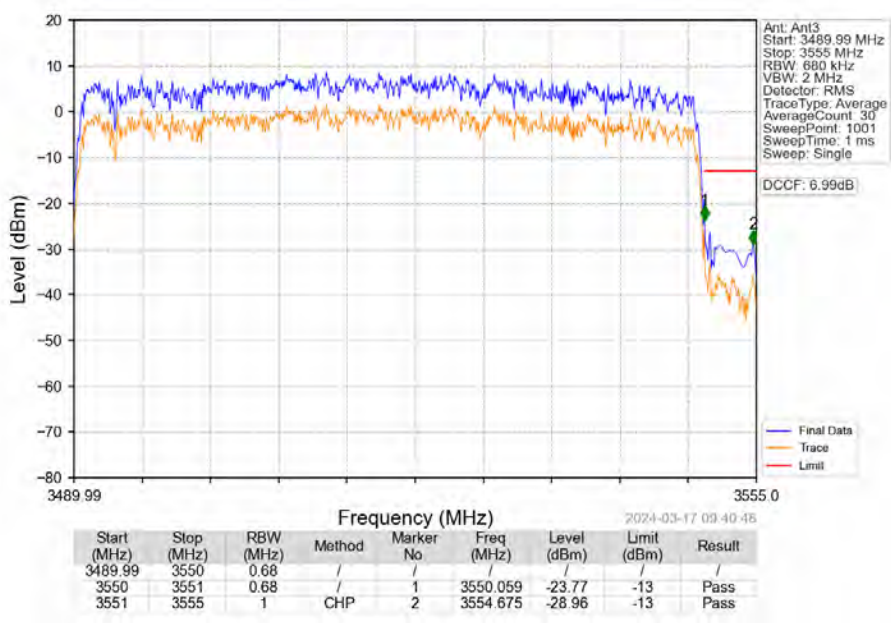
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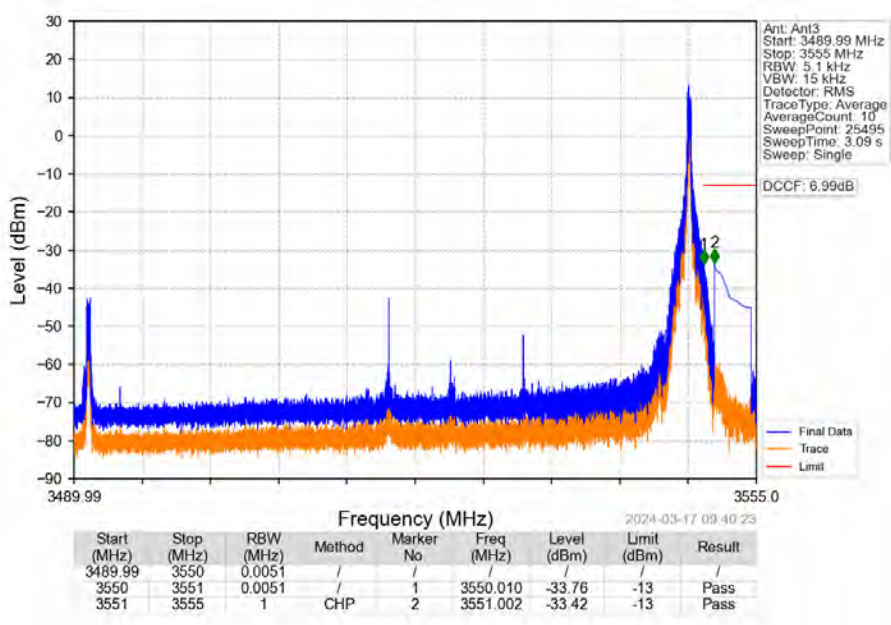
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3519.99MHz Edge 1RB Right



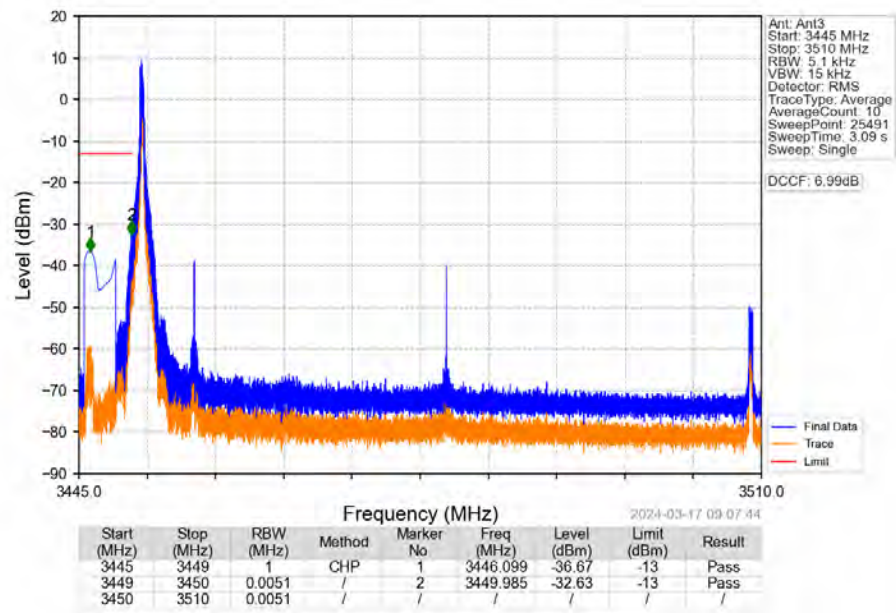
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3519.99MHz Outer Full



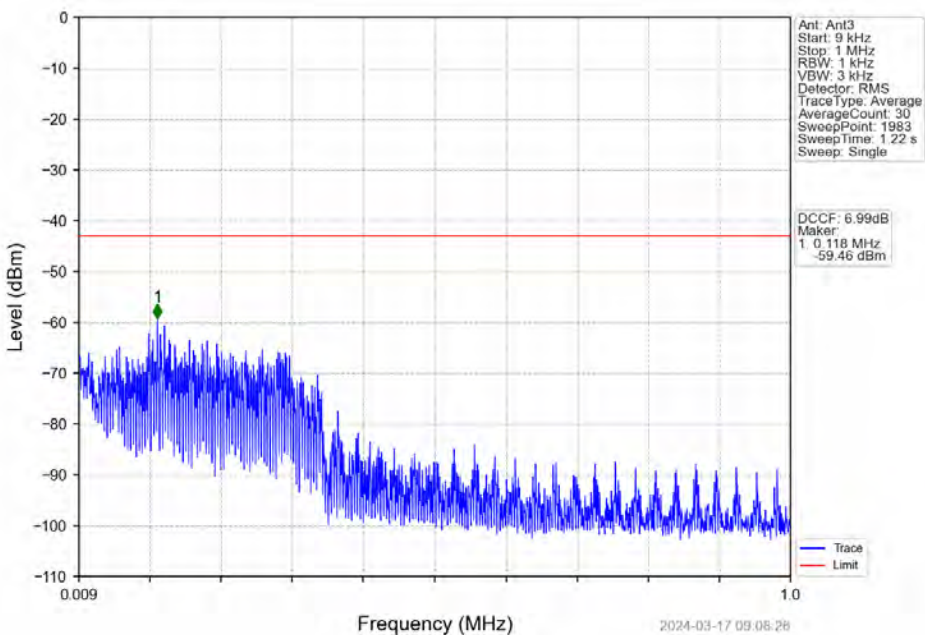
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM PI/2 BPSK 3519.99MHz Inner 1RB Right



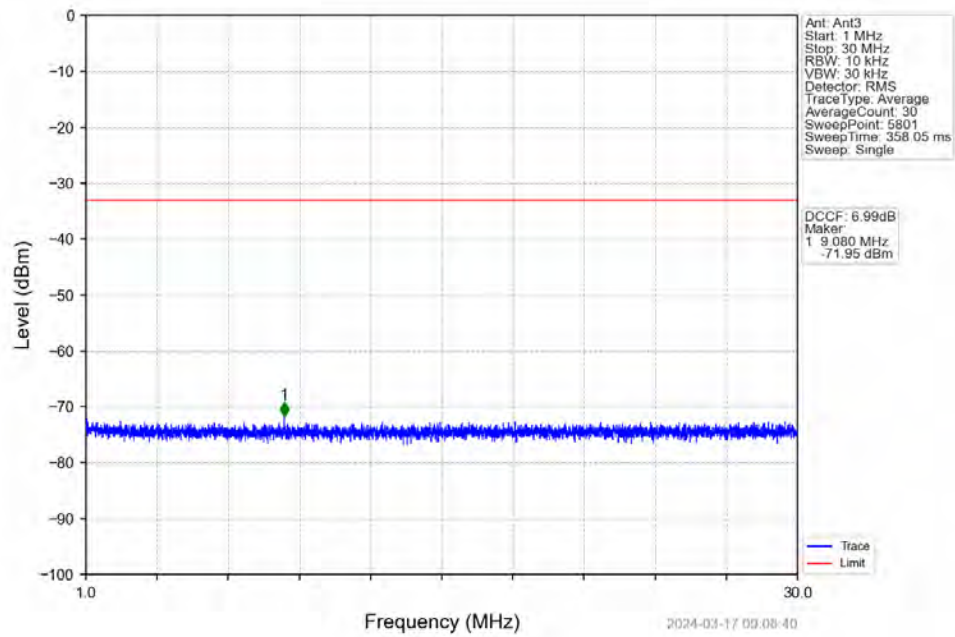
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3480MHz Edge 1RB Left



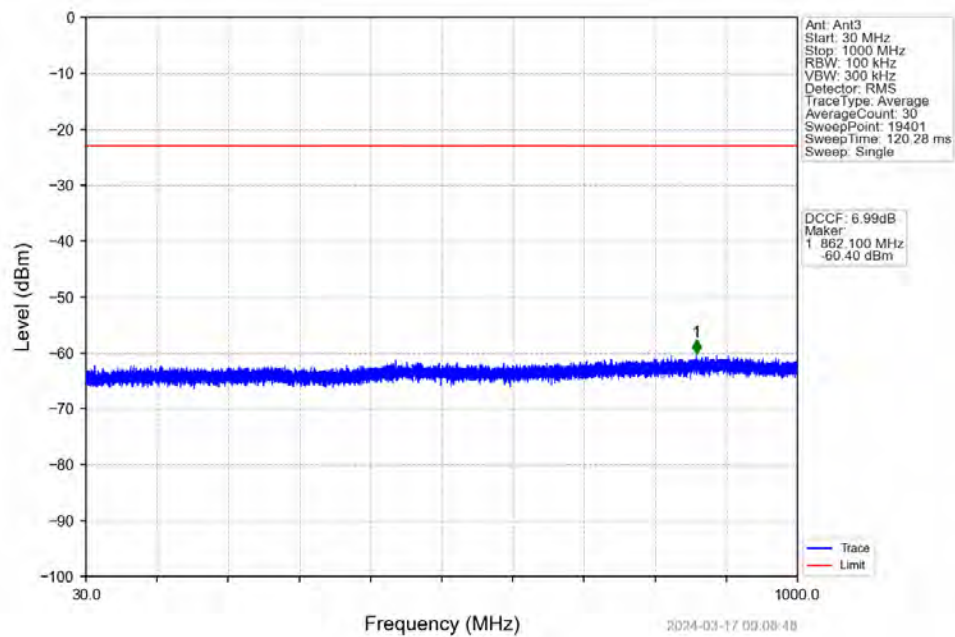
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3480MHz Edge 1RB Left



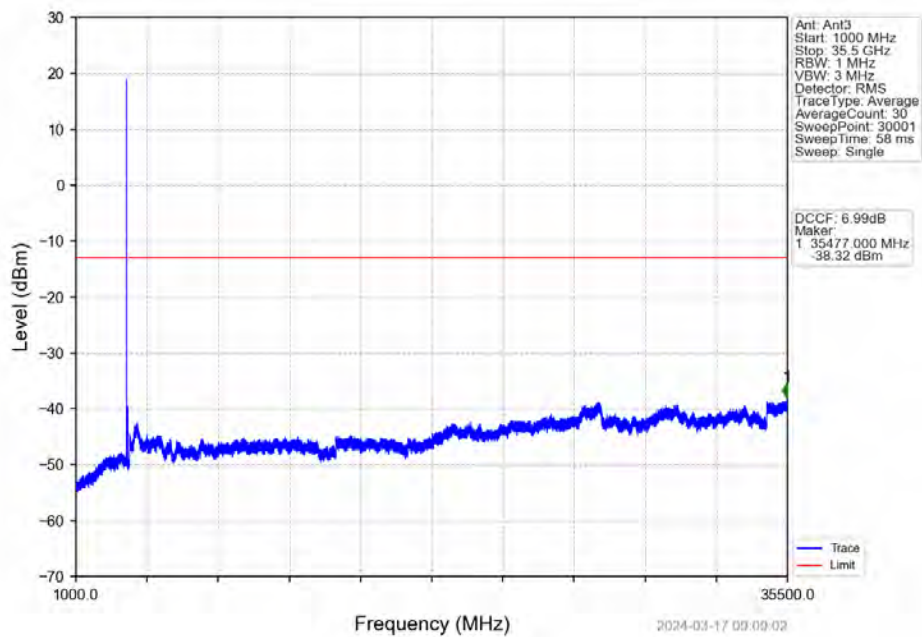
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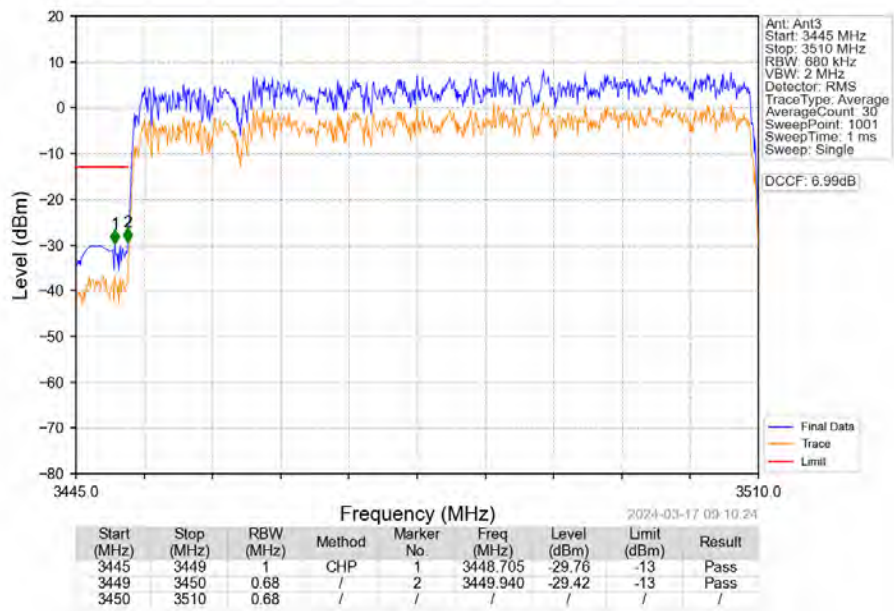
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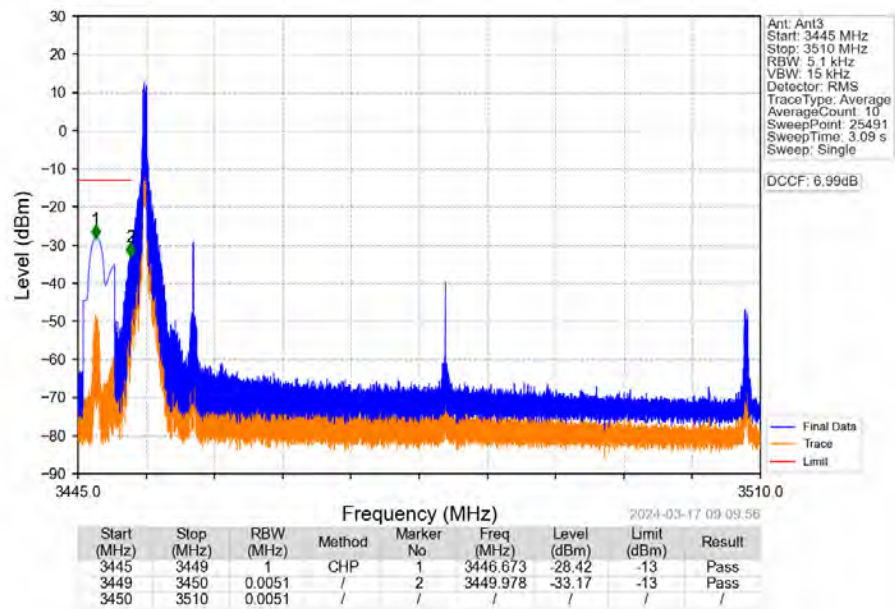
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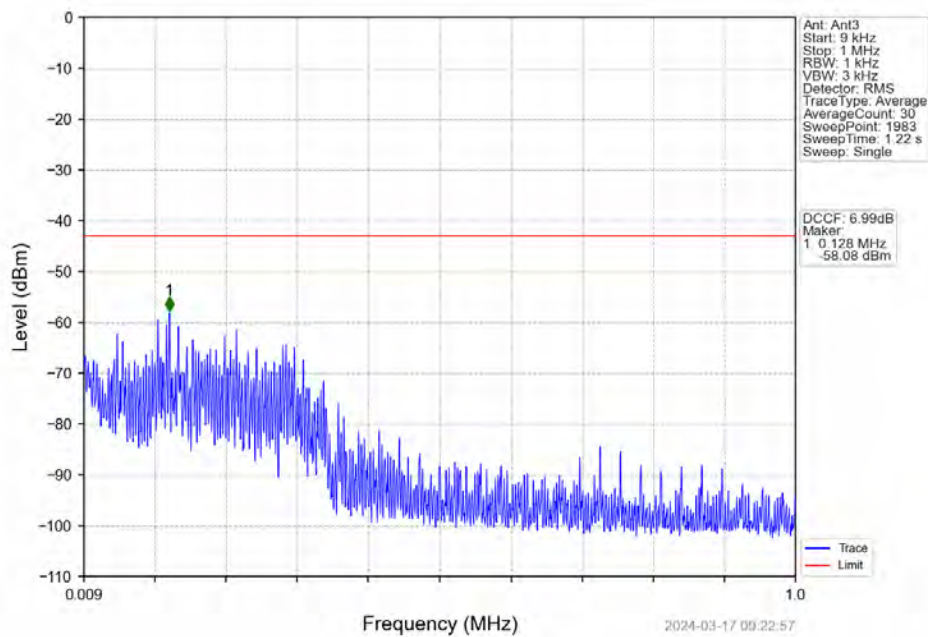
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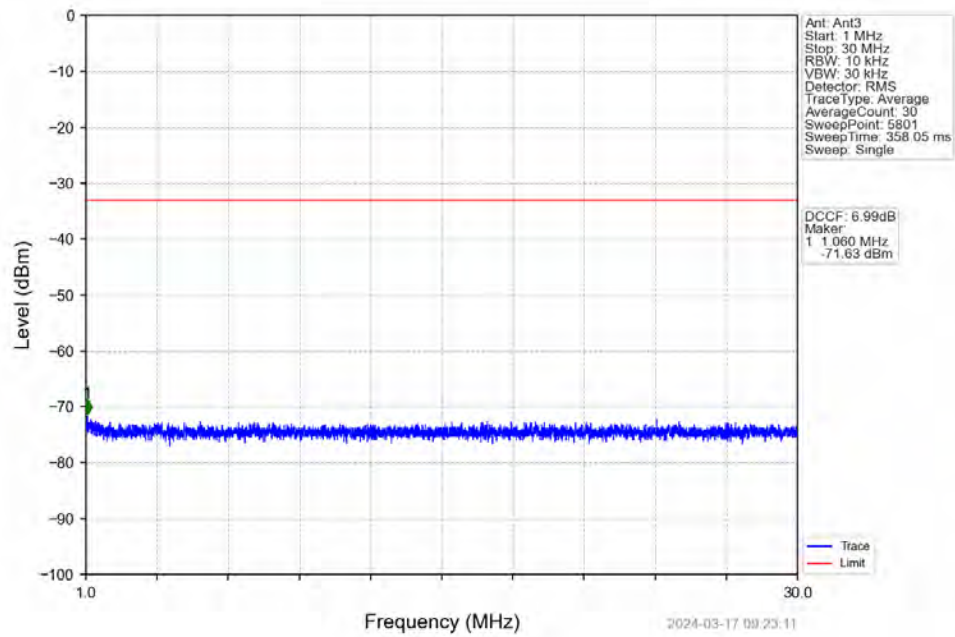
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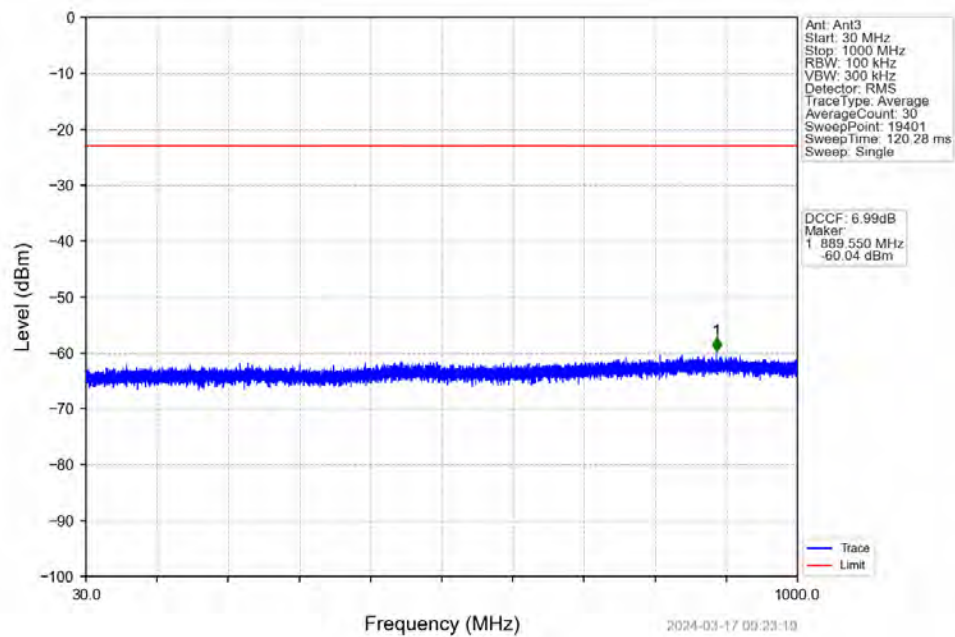
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



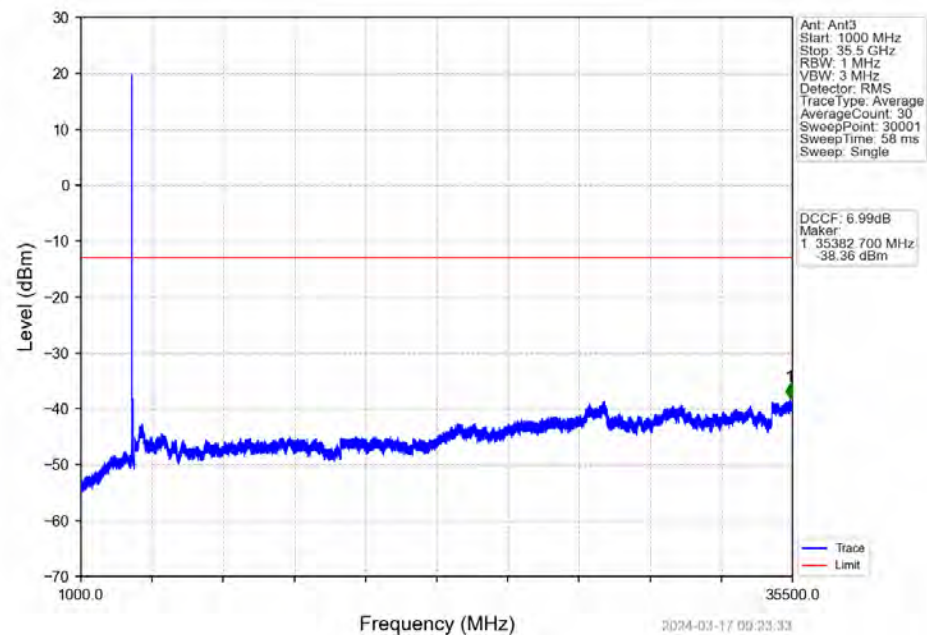
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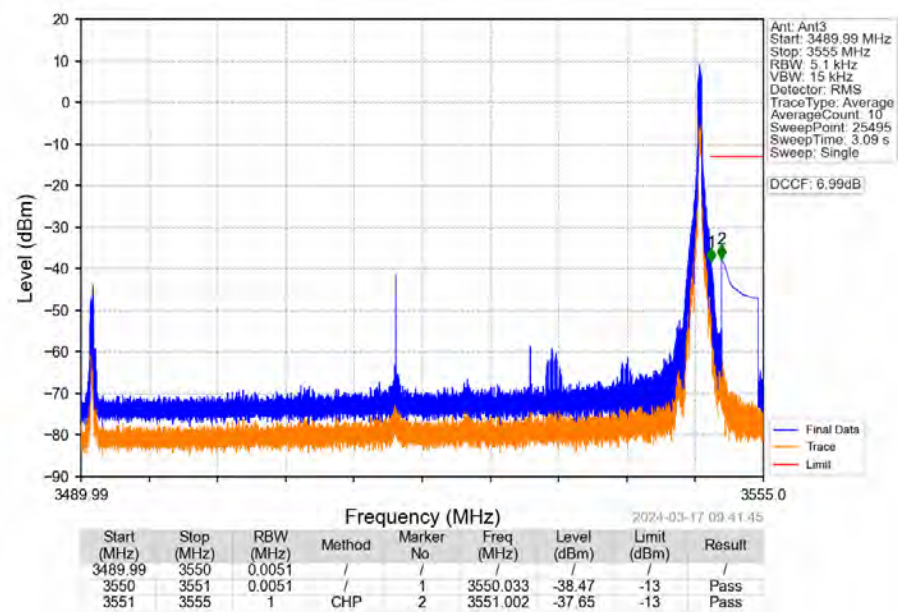
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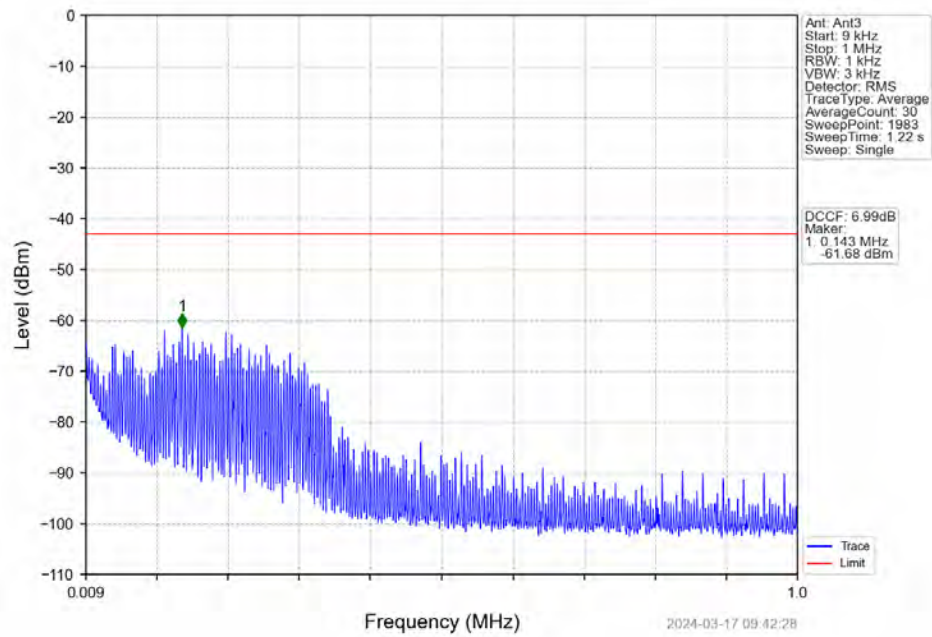
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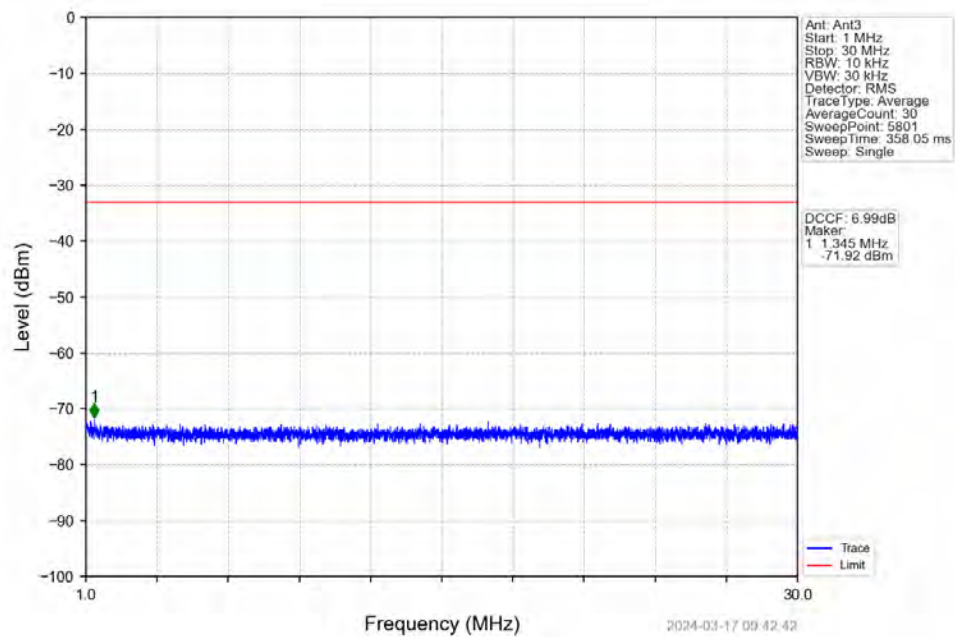
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3519.99MHz Edge 1RB Right



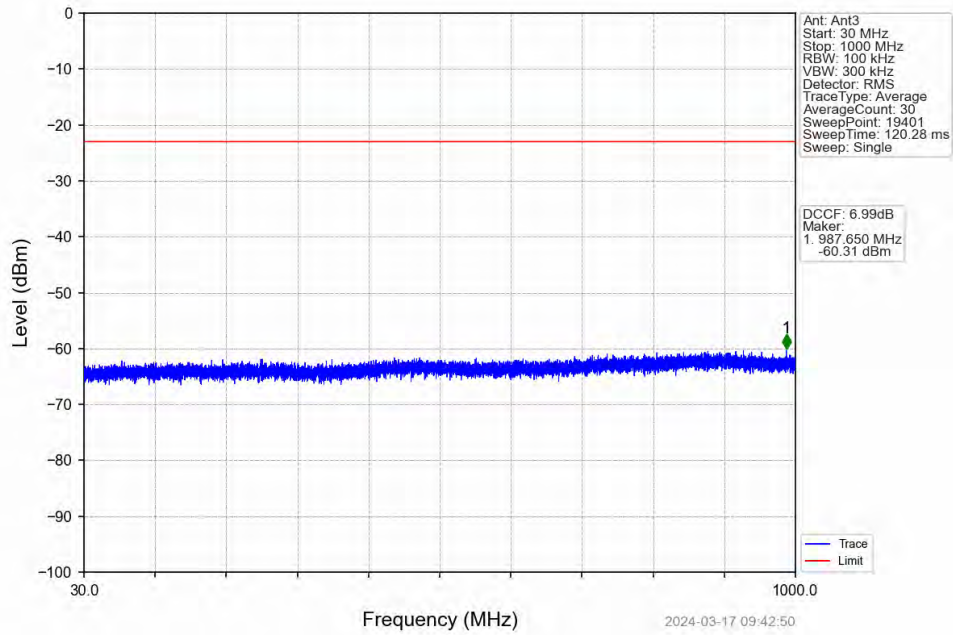
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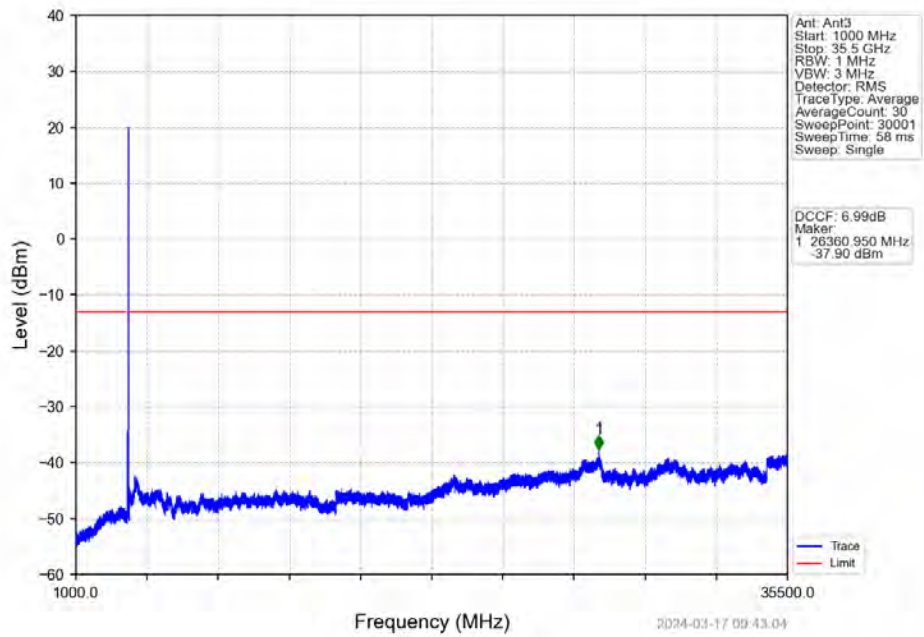
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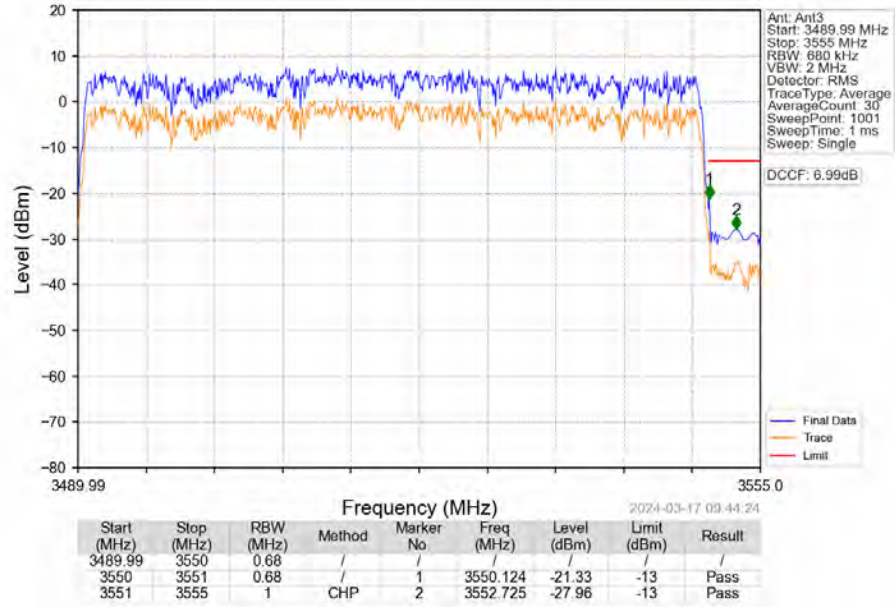
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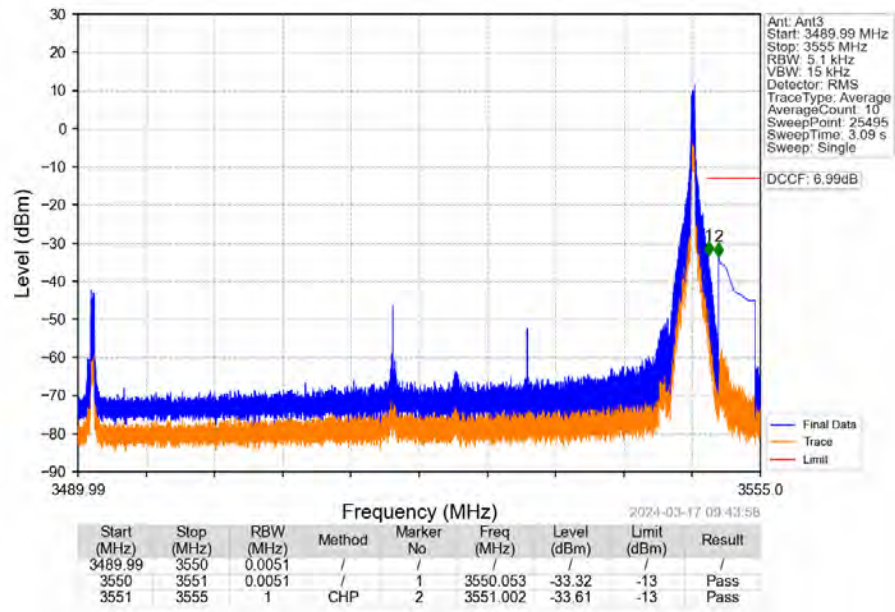
n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3519.99MHz Edge 1RB Right



n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3519.99MHz Outer Full



n77d 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3519.99MHz Inner 1RB Right

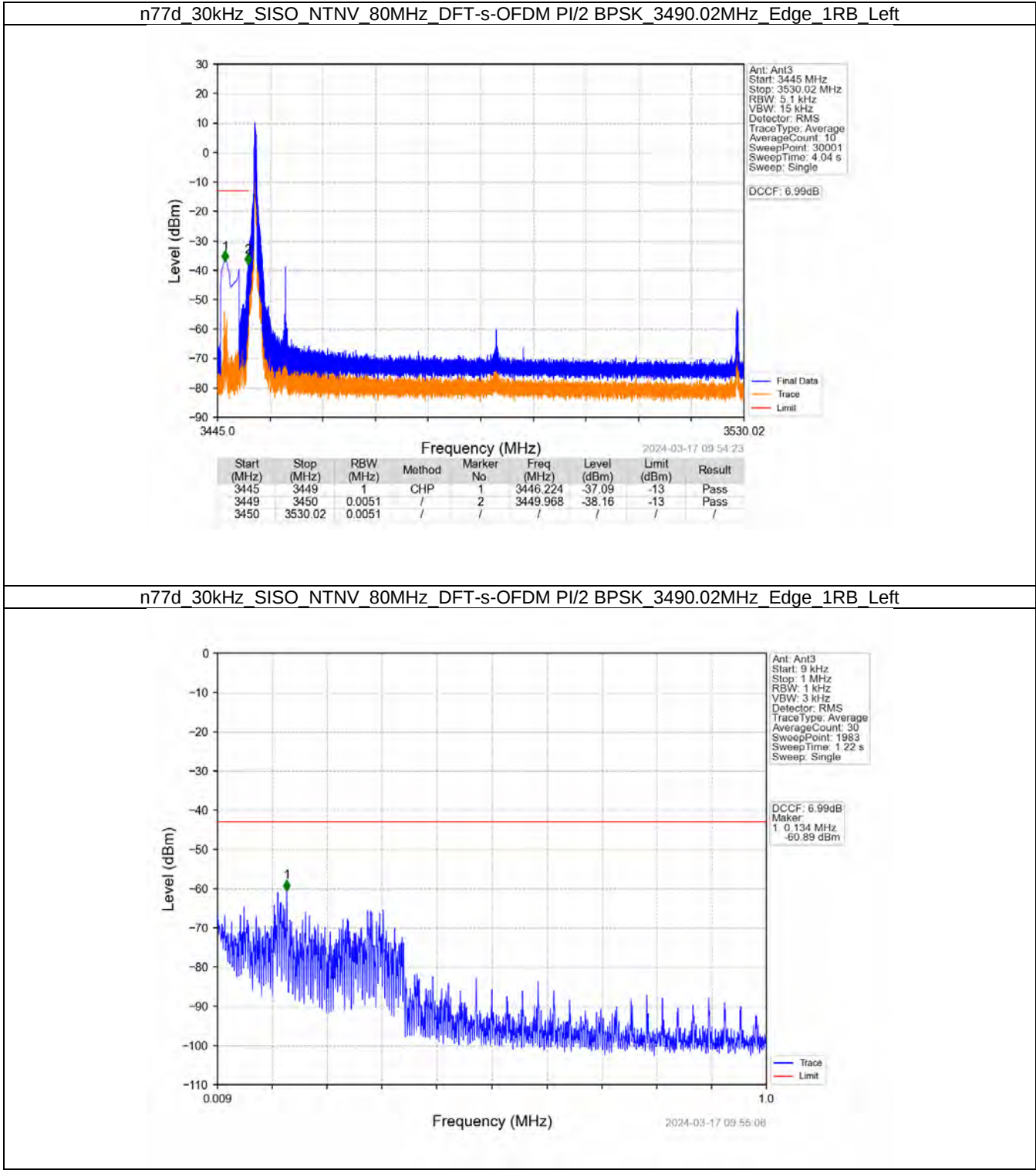


5.5 30k_SISO_80MHz_NTNV

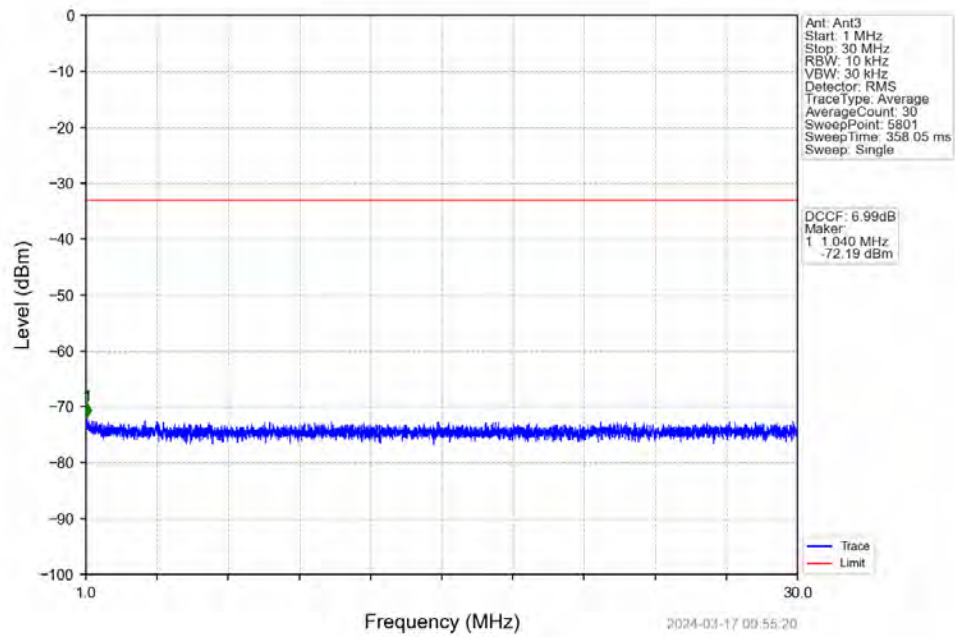
5.5.1 Test Result

5G NR n77d SCS=30kHz SISO 80MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant7	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	3490.02	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3510	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
	Inner_1RB_Right		Refer To Test Graph				Pass	
	DFT-s-OFDM QPSK	3490.02	Edge_1RB_Left	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
Inner_1RB_Left			Refer To Test Graph				Pass	
3500.01		Edge_1RB_Left	Refer To Test Graph				Pass	
		3510	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
Inner_1RB_Right	Refer To Test Graph				Pass			

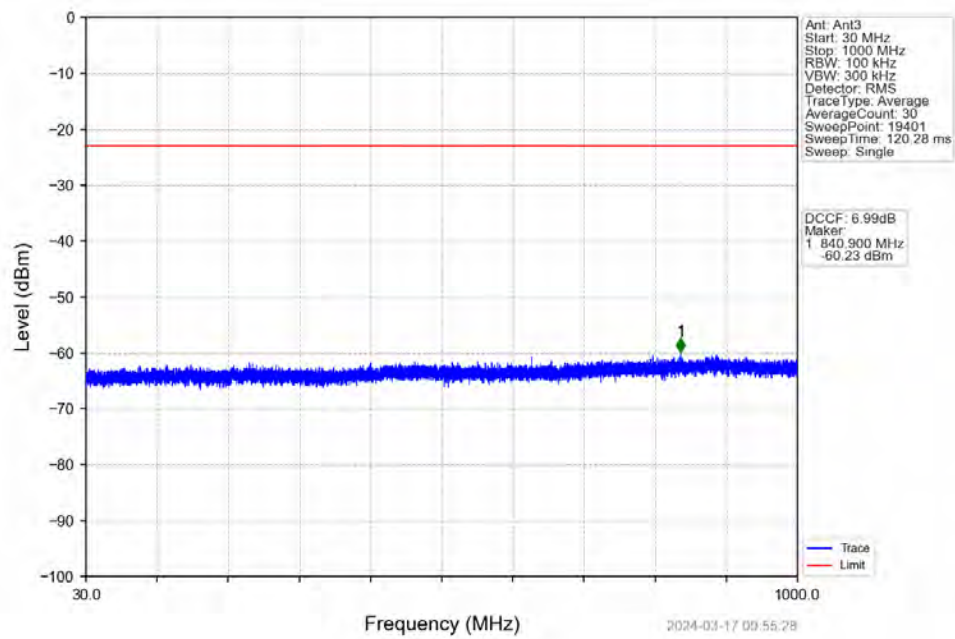
5.5.2 Test Graph



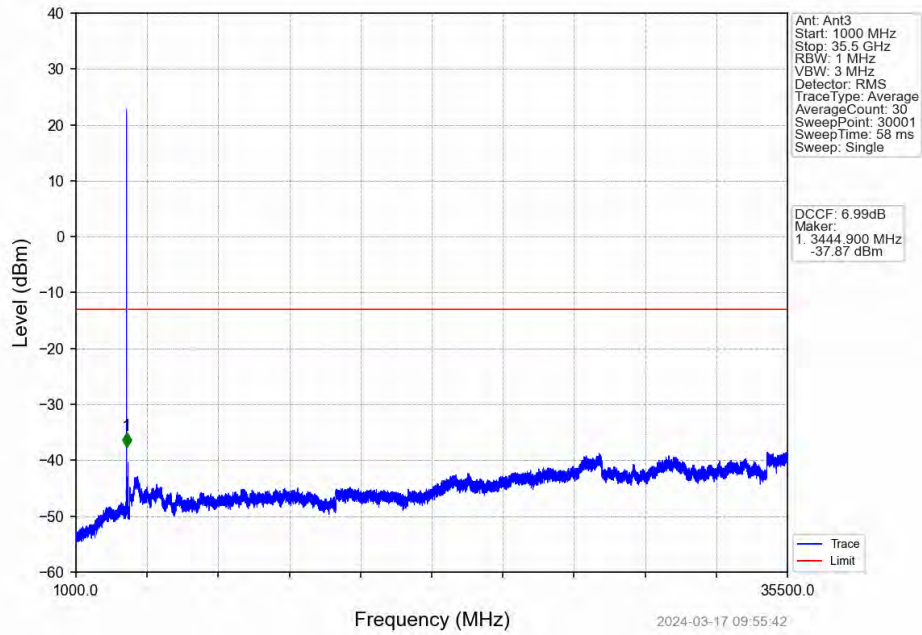
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3490.02MHz Edge 1RB Left



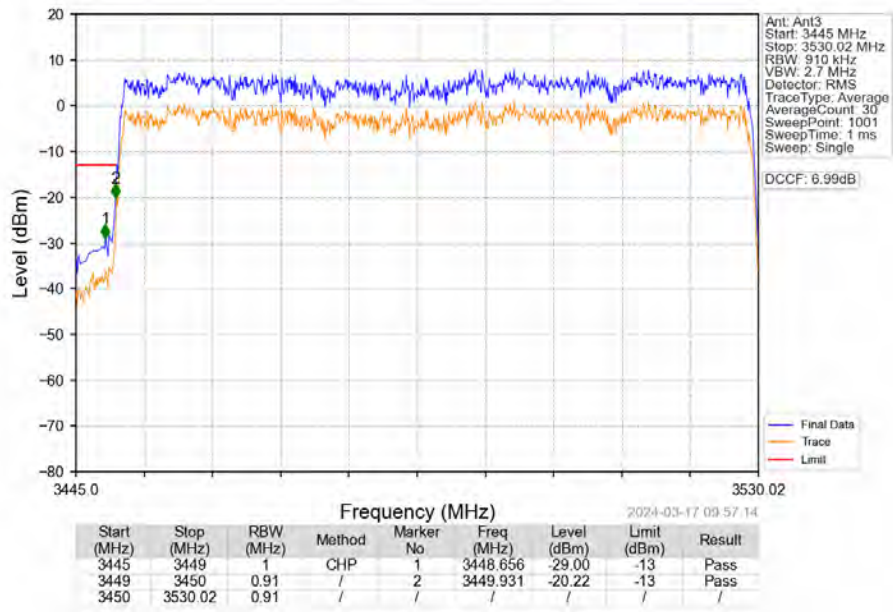
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3490.02MHz Edge 1RB Left



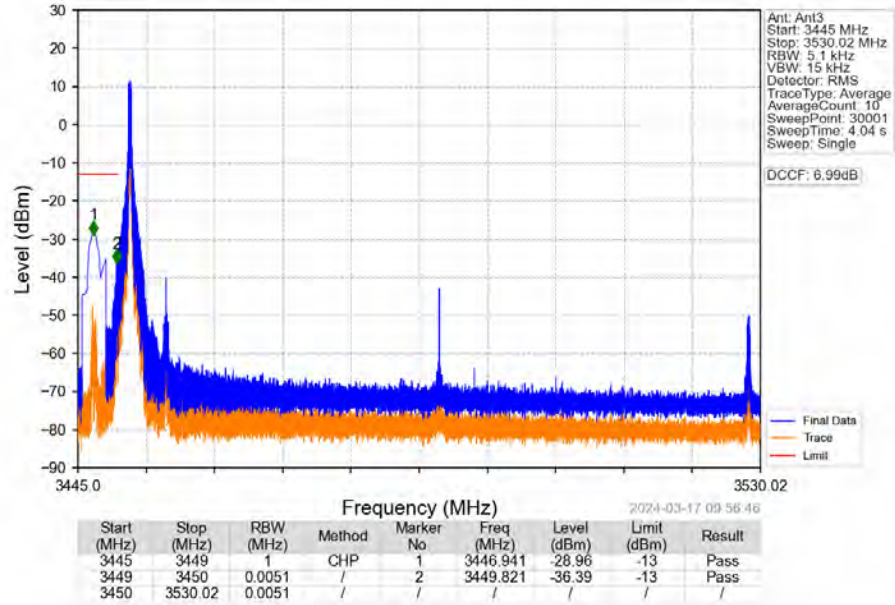
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3490.02MHz Edge 1RB Left



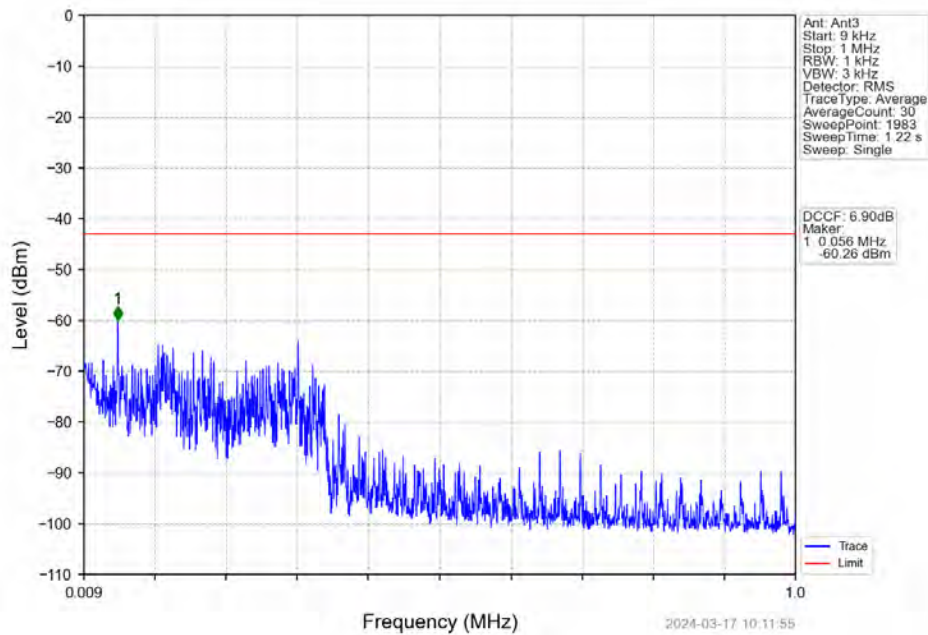
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3490.02MHz Outer Full



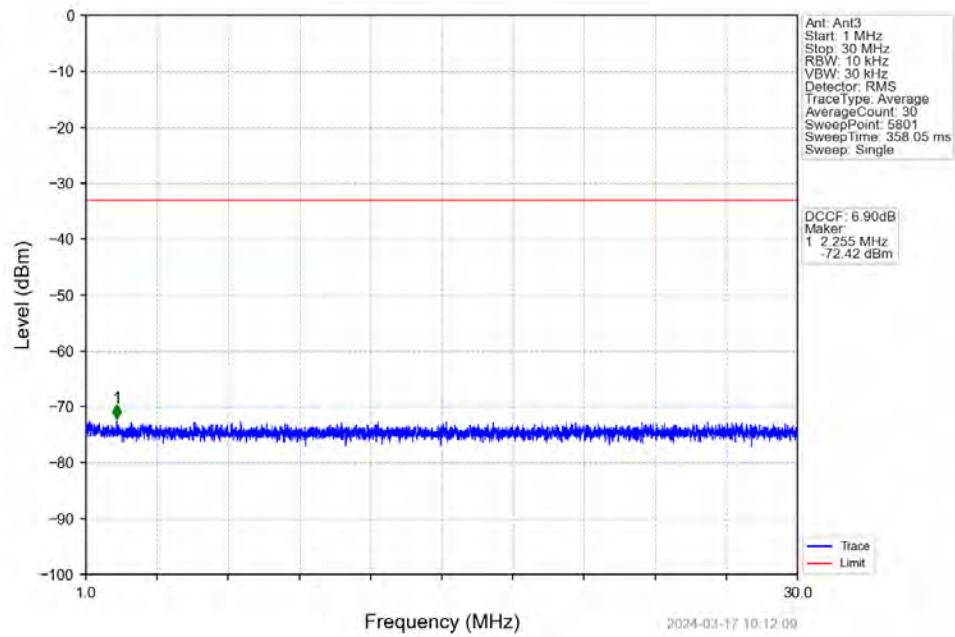
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3490.02MHz Inner 1RB Left



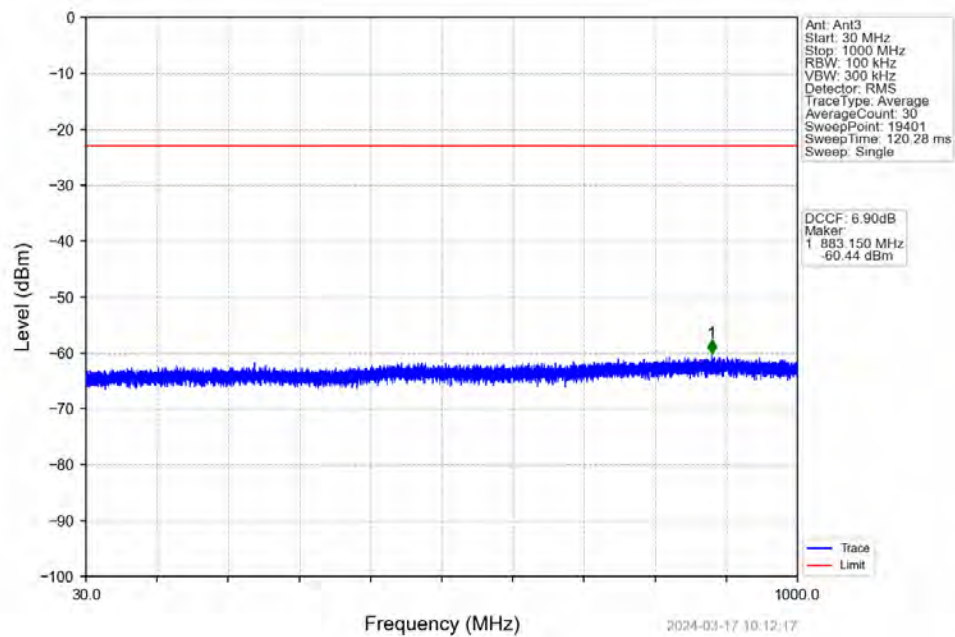
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



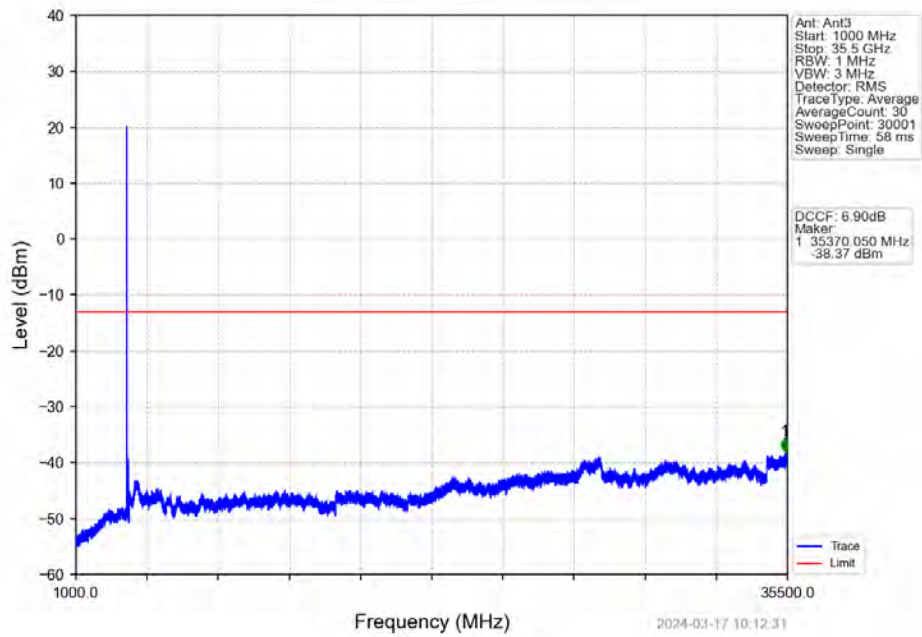
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



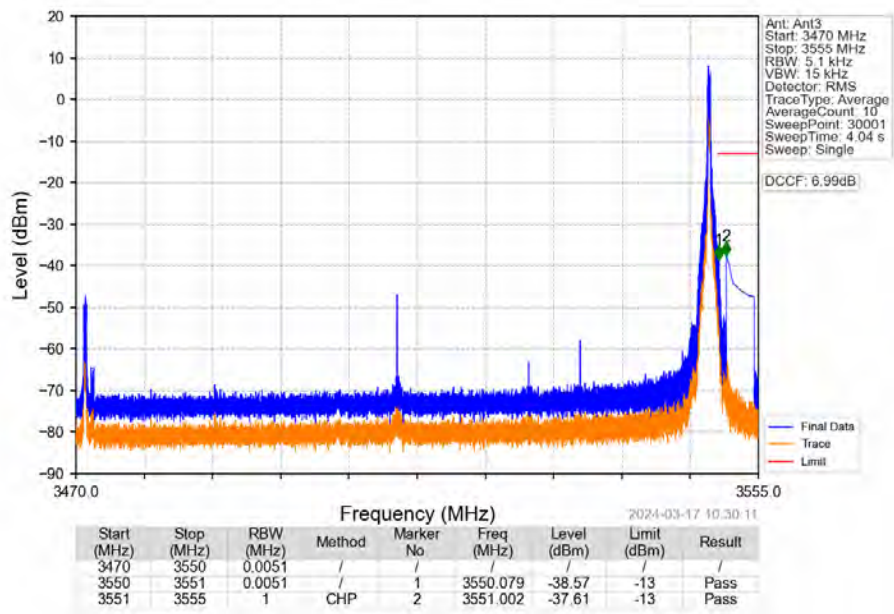
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



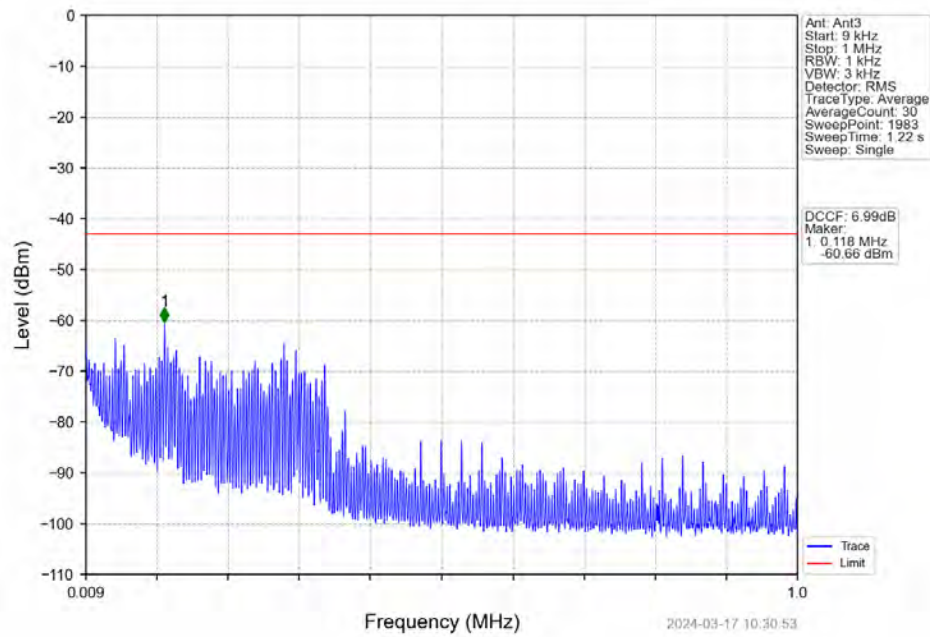
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



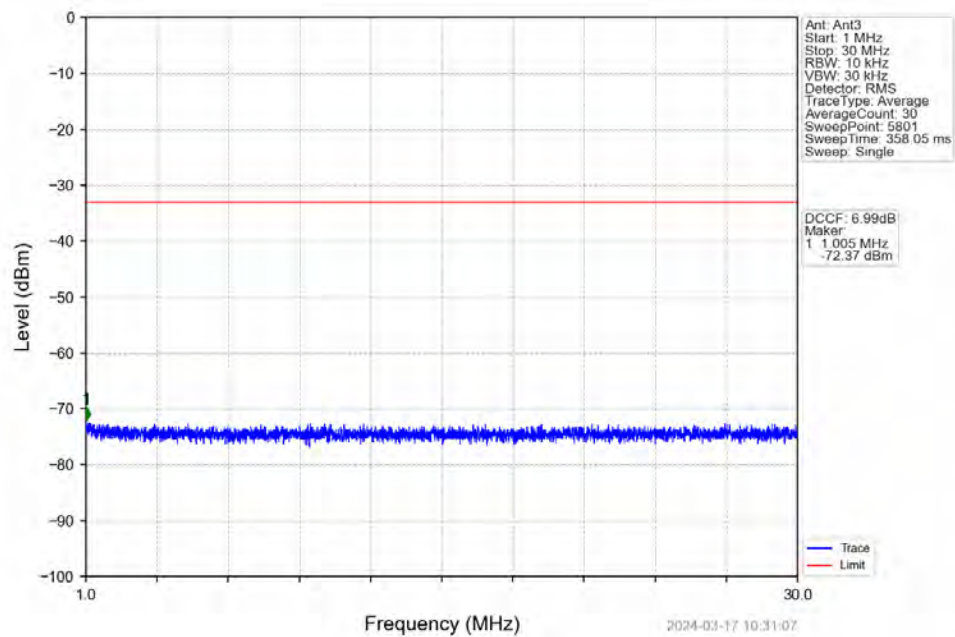
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Edge 1RB Right



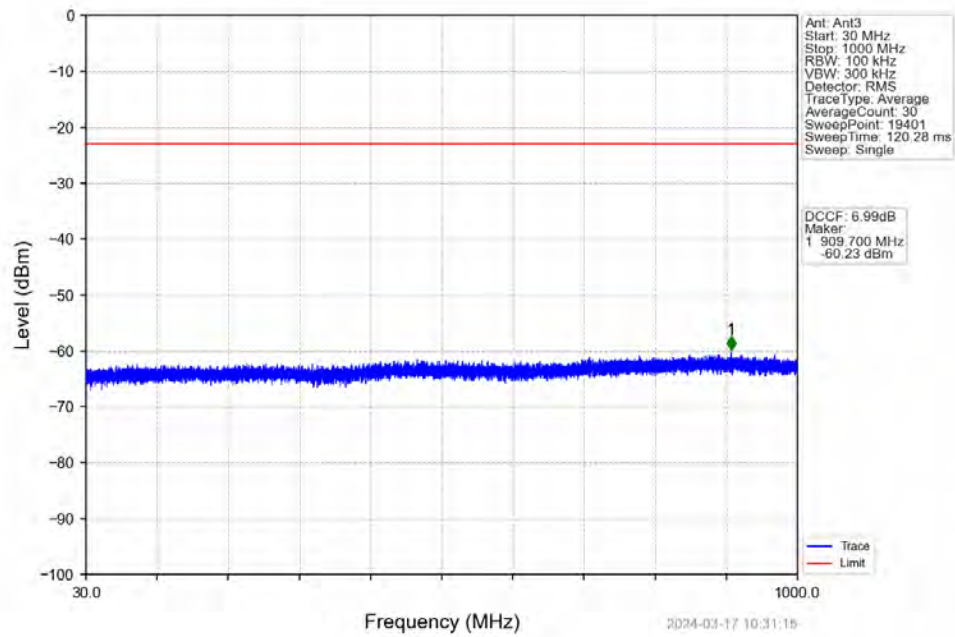
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Edge 1RB Right



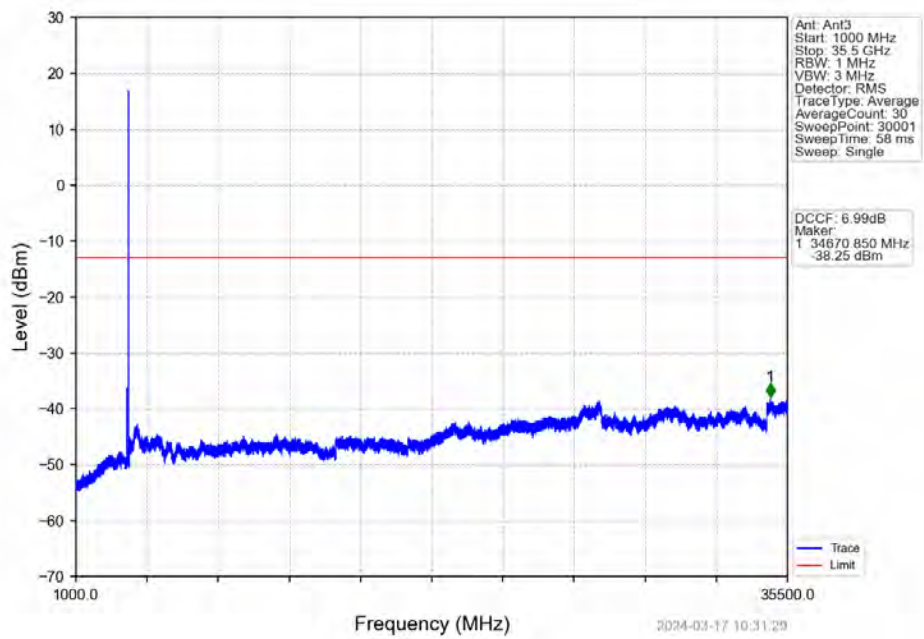
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Edge 1RB Right



n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Edge 1RB Right



n77d 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Edge 1RB Right



Ant: Ant3
 Start: 3470 MHz
 Stop: 3555 MHz
 RBW: 910 kHz
 VBW: 2.7 MHz
 Detector: RMS
 TraceType: Average
 AverageCount: 30
 SweepPoint: 1001
 SweepTime: 1 ms
 Sweep: Single

DCCF: 6.99dB

Level (dBm)

Frequency (MHz)

2024-03-17 10:32:58

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3470	3550	0.91	/	1	3550.070	-26.98	-13	Pass
3550	3551	0.91	/	2	3551.175	-30.21	-13	Pass
3551	3555	1	CHP					

Ant: Ant3
Start: 3470 MHz
Stop: 3555 MHz
RBW: 5.1 kHz
VBW: 15 kHz
Detector: RMS
Trace Type: Average
AverageCount: 10
SweepPoint: 30001
SweepTime: 4.04 s
Sweep: Single

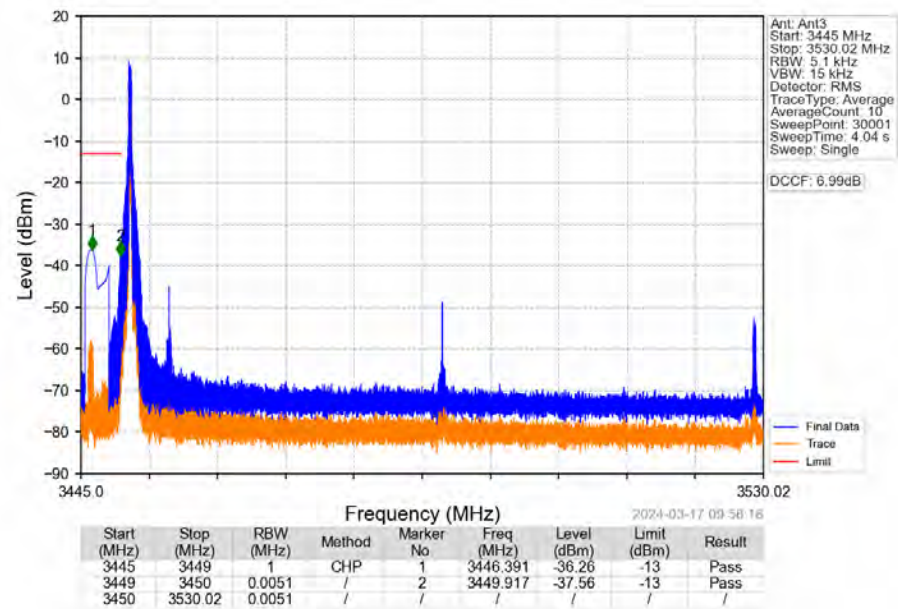
Level (dBm)

Frequency (MHz)

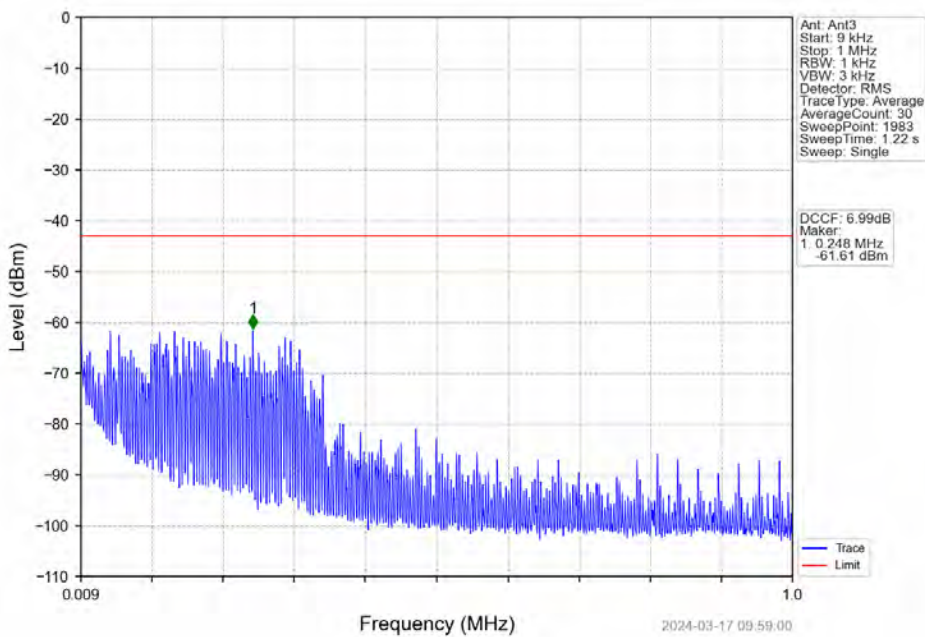
2024-03-17 10:32:33

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3470	3550	0.0051	/	1	3550.022	-36.22	-13	Pass
3550	3551	0.0051	/	2	3551.002	-35.45	-13	Pass

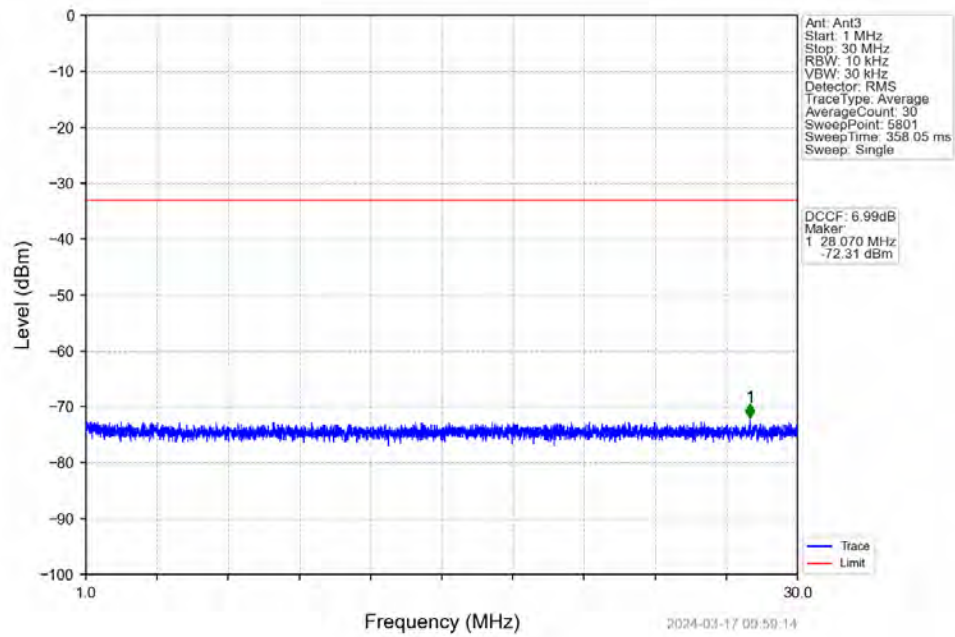
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Edge 1RB Left



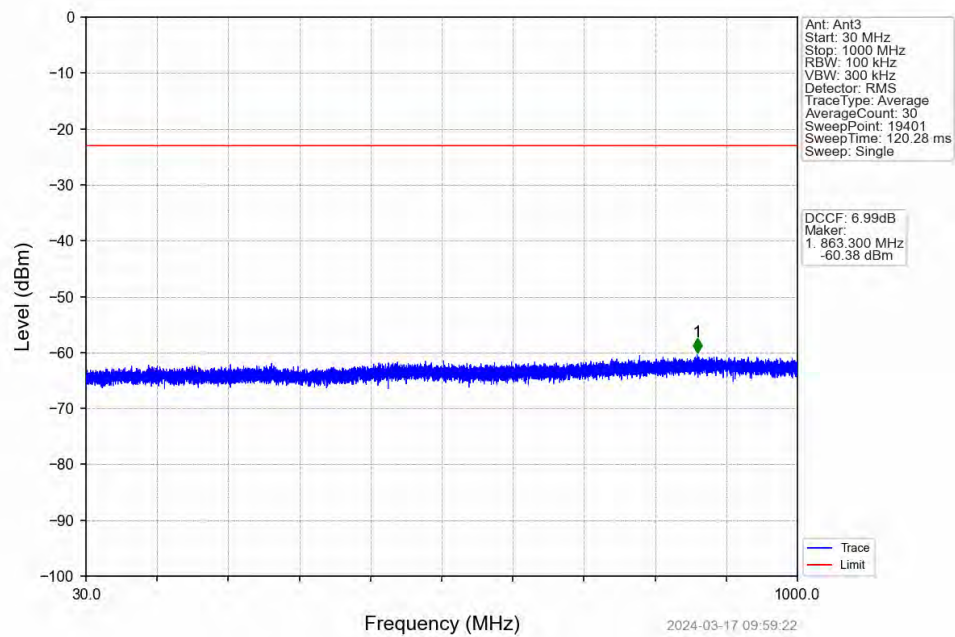
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Edge 1RB Left



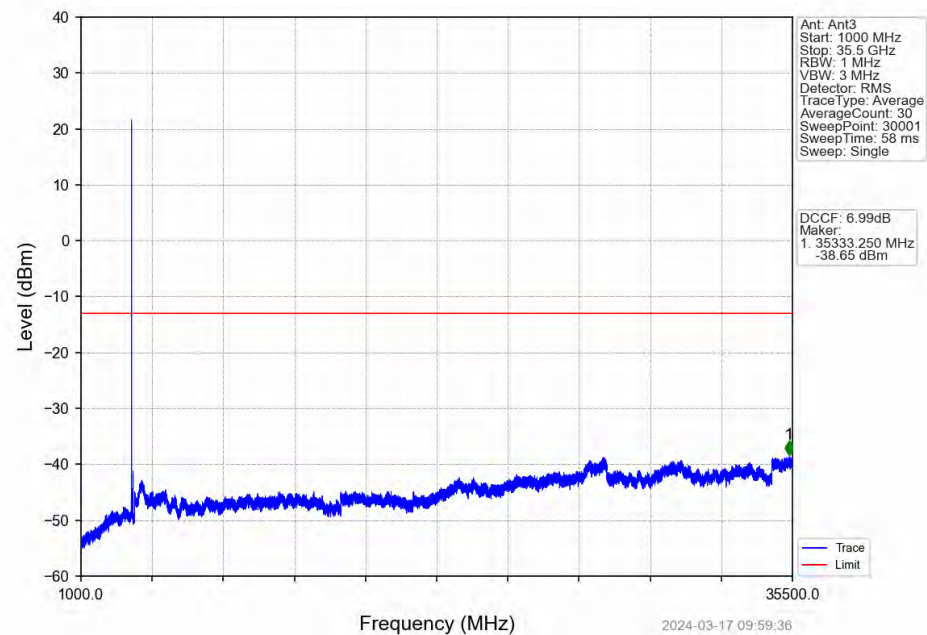
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Edge 1RB Left



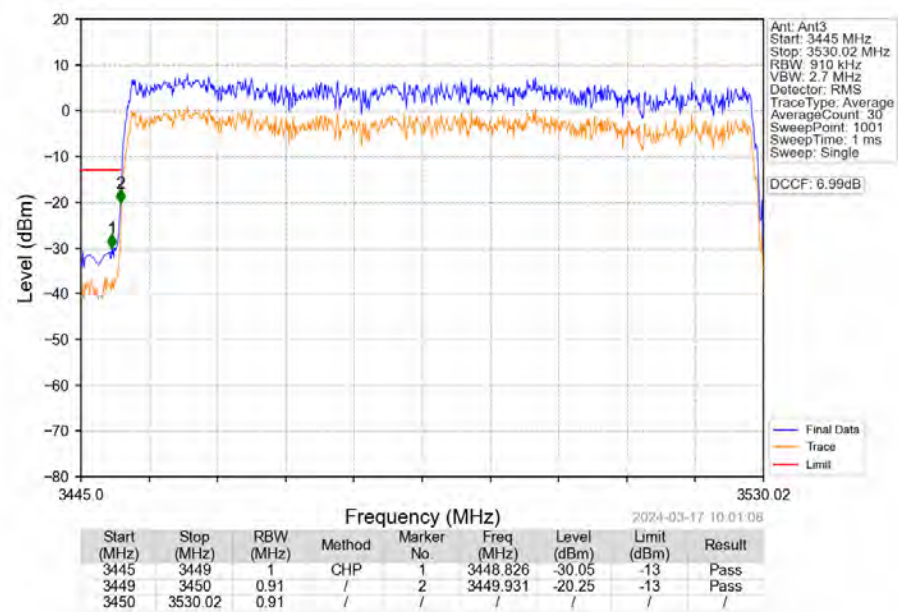
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Edge 1RB Left



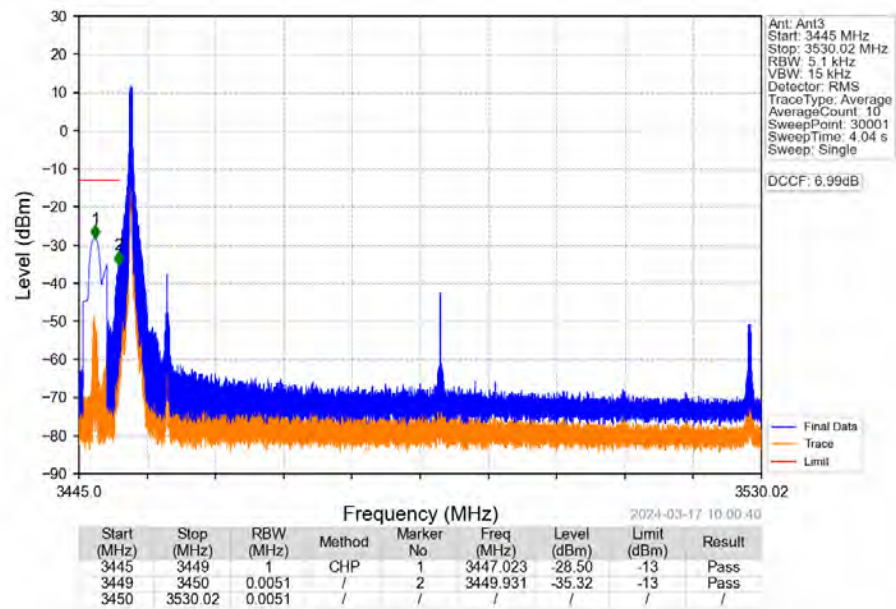
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Edge 1RB Left



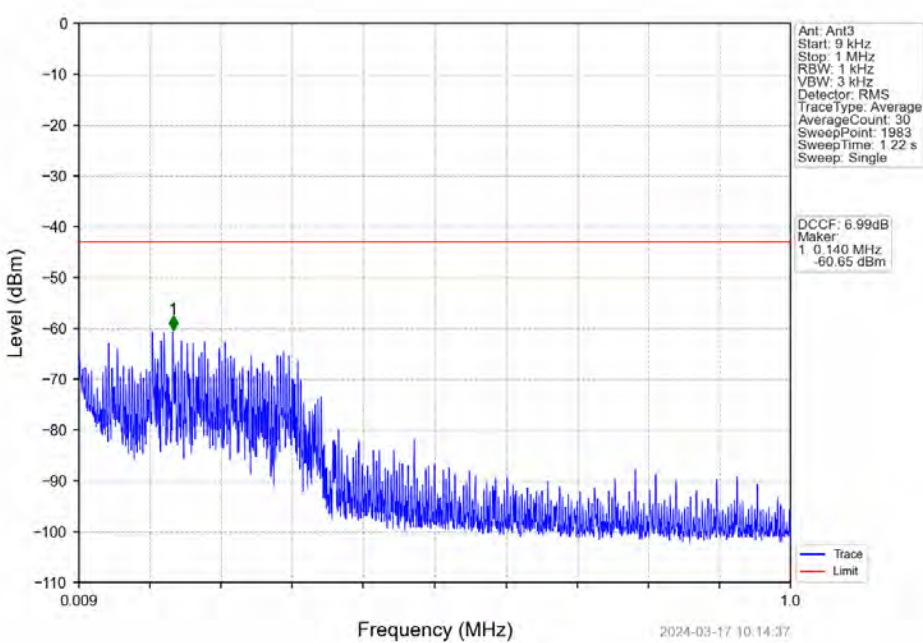
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Outer Full



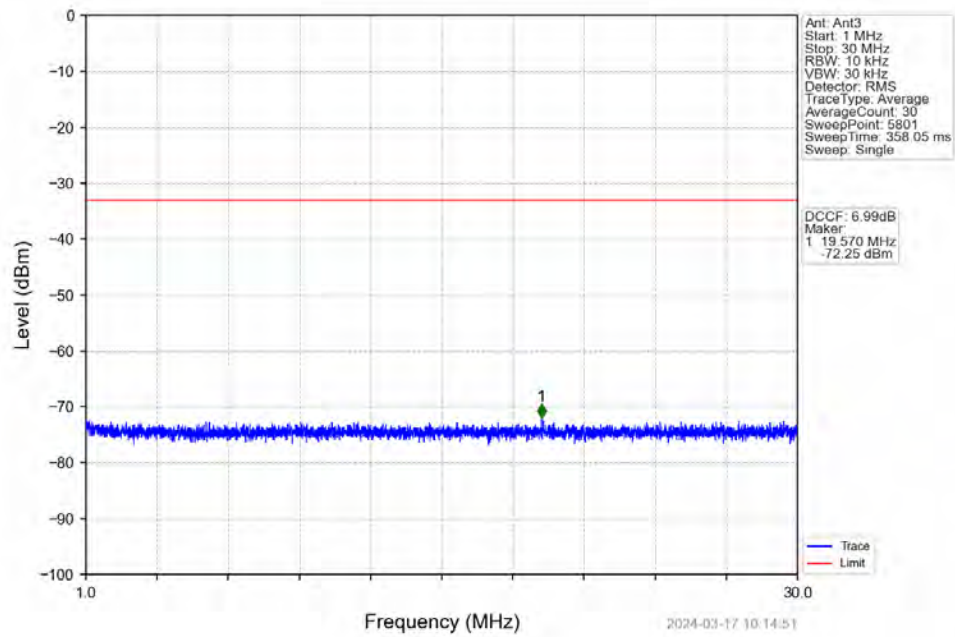
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3490.02MHz Inner 1RB Left



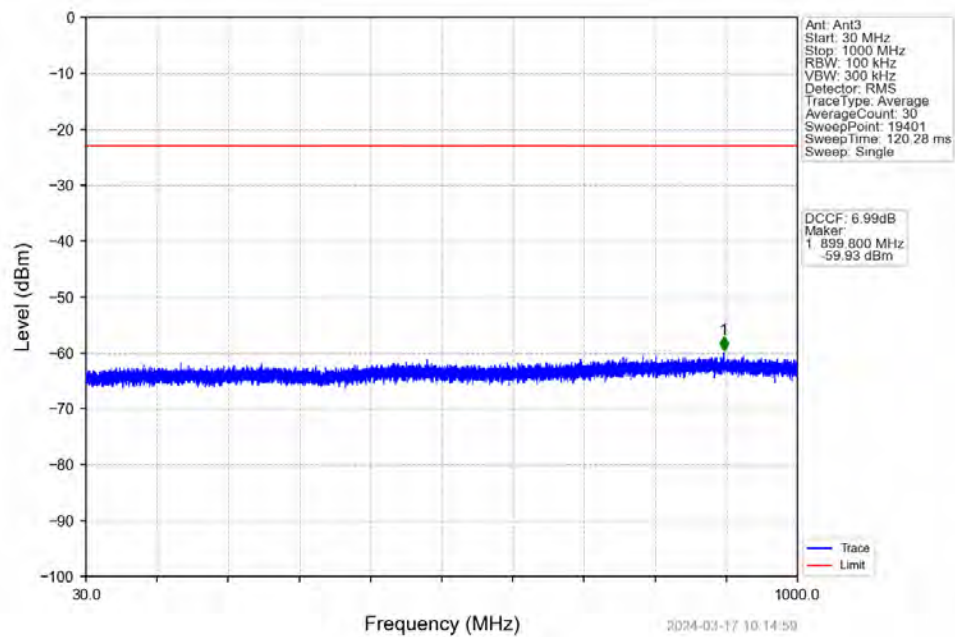
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



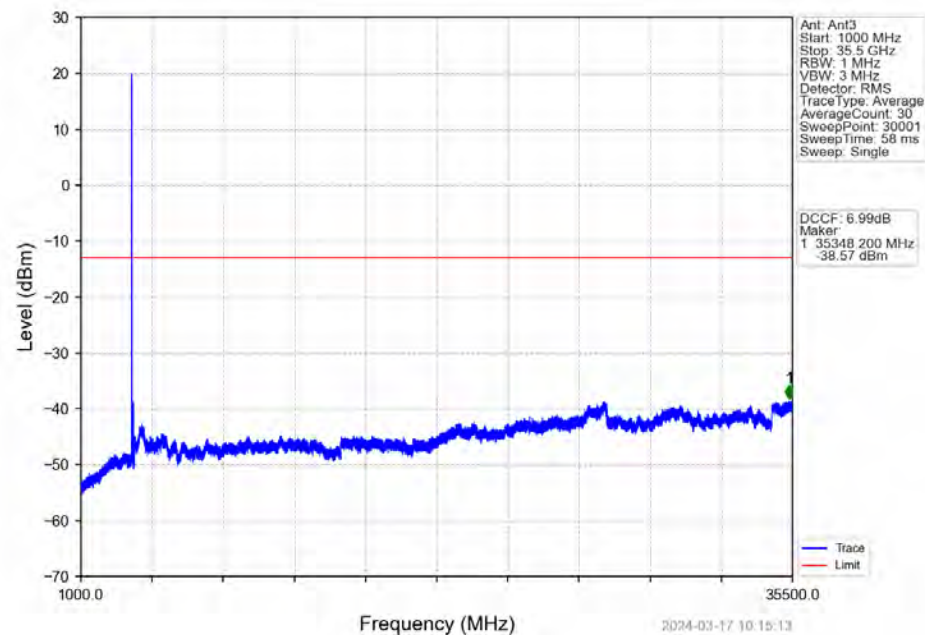
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



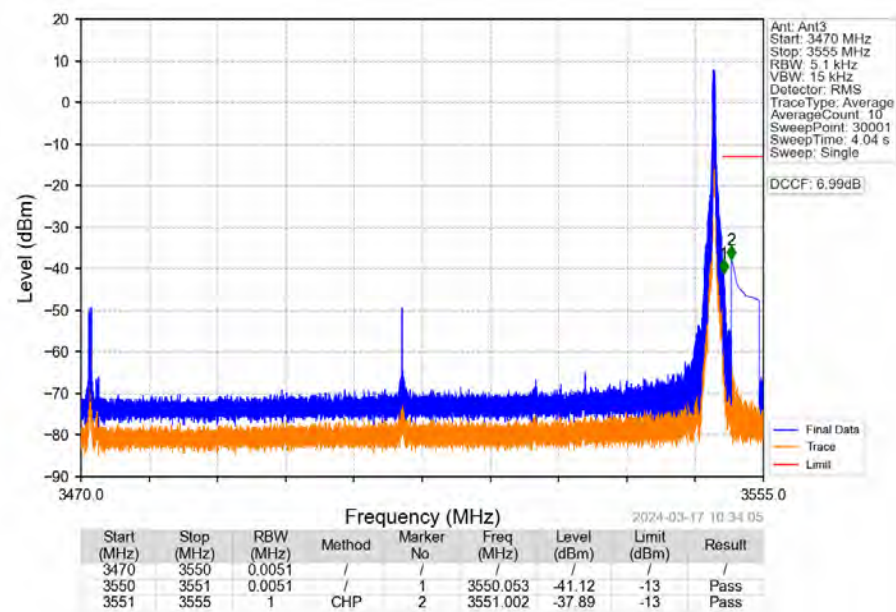
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



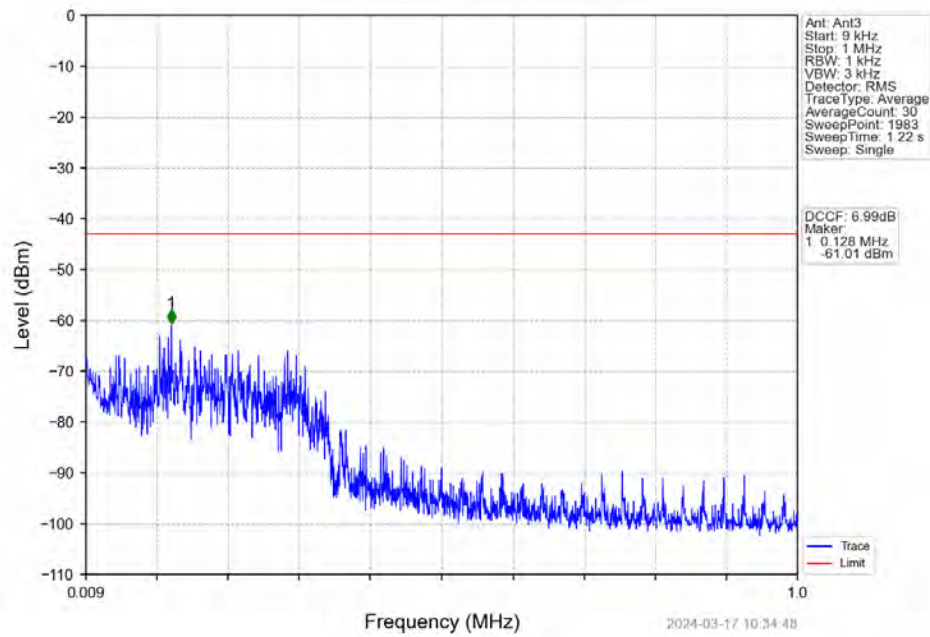
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



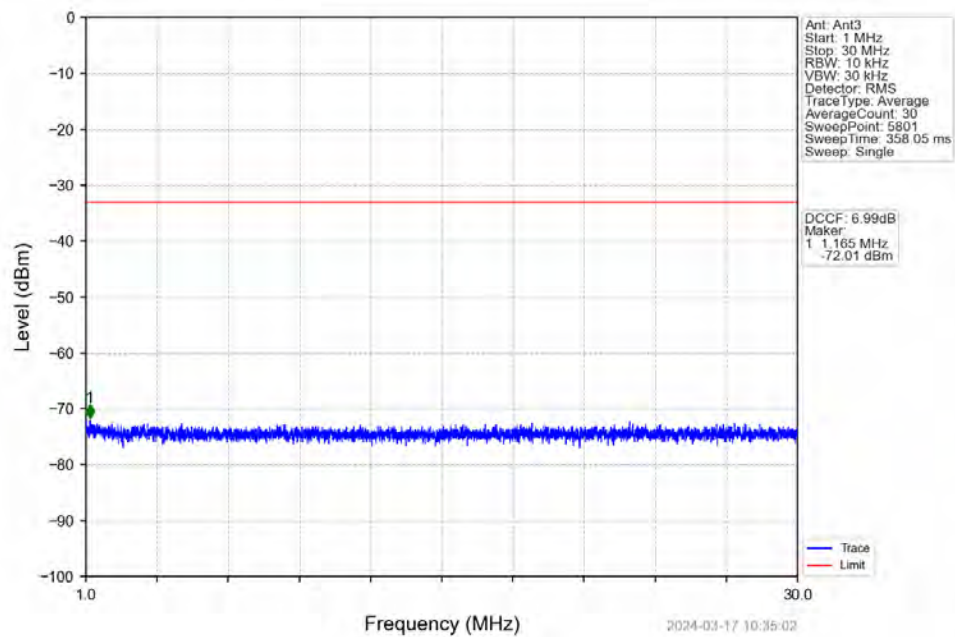
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Edge 1RB Right



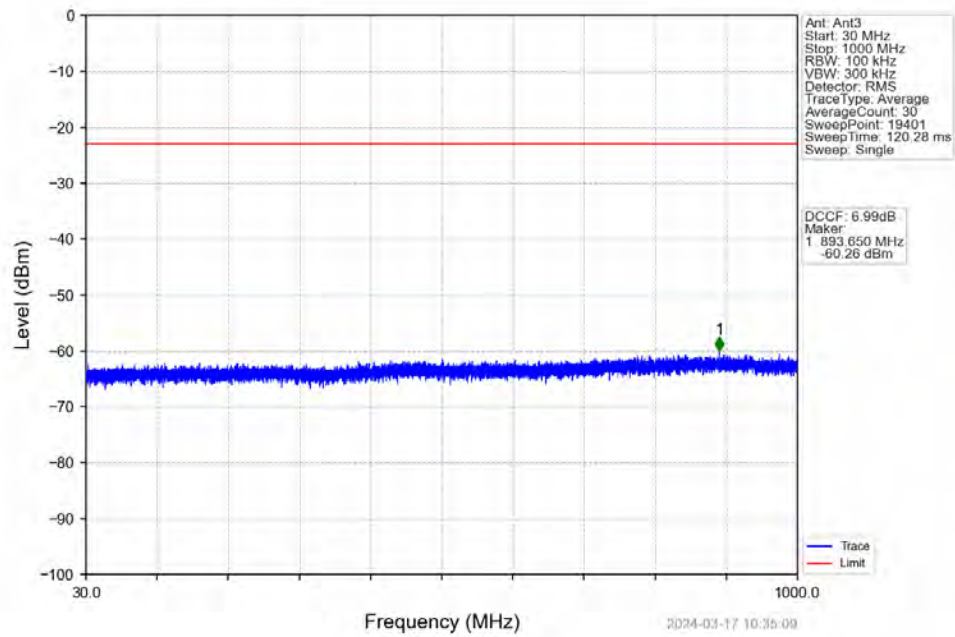
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Edge 1RB Right



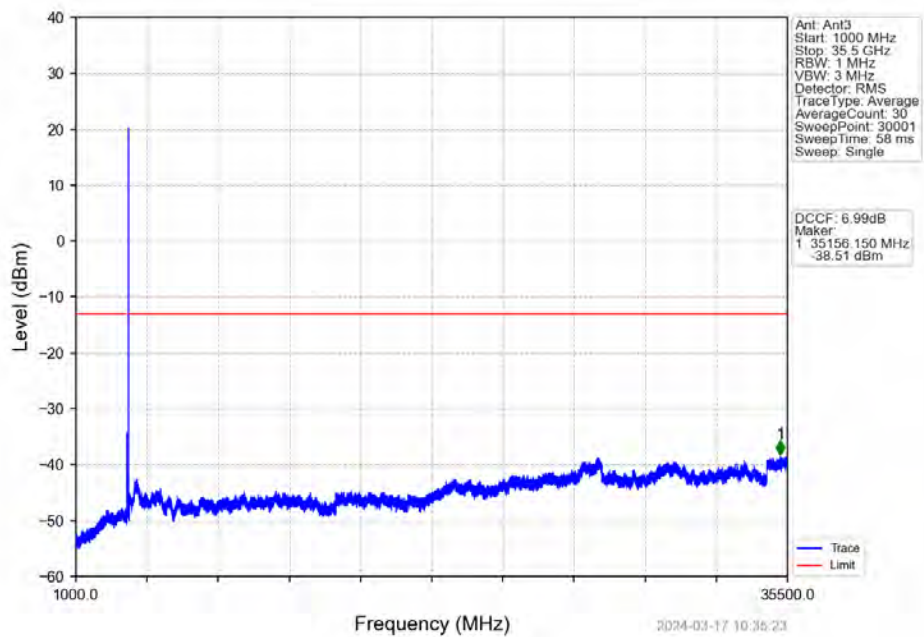
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Edge 1RB Right



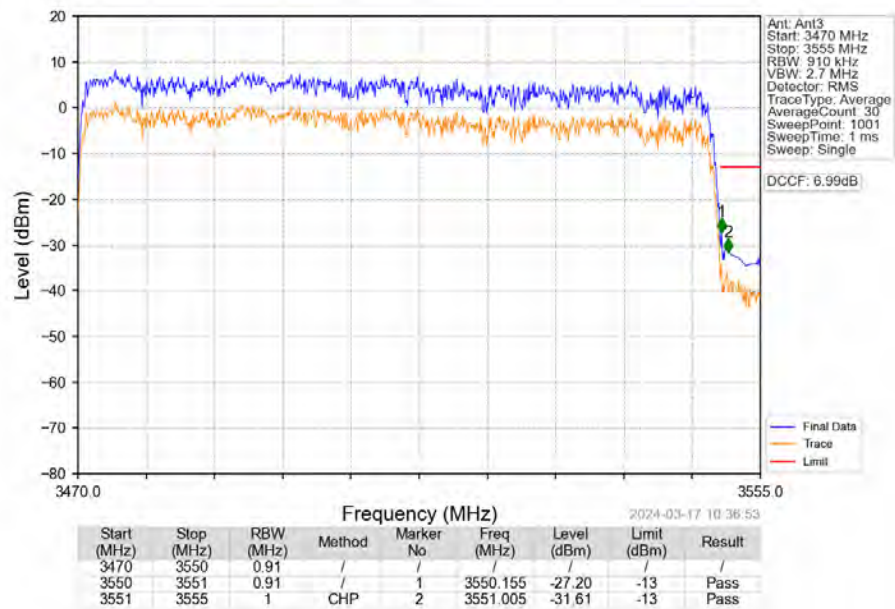
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Edge 1RB Right



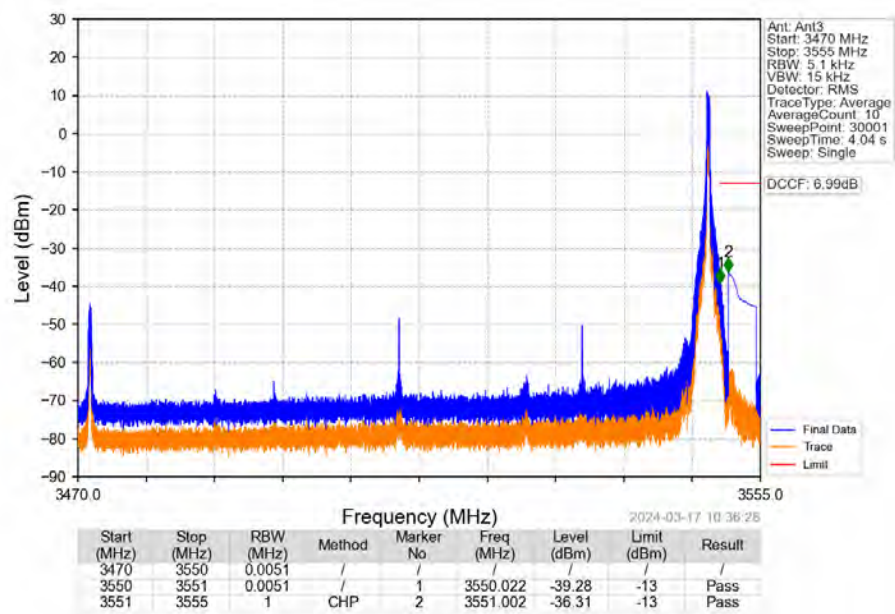
n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Edge 1RB Right



n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Outer Full



n77d 30kHz SISO NTN 80MHz DFT-s-OFDM QPSK 3510MHz Inner 1RB Right

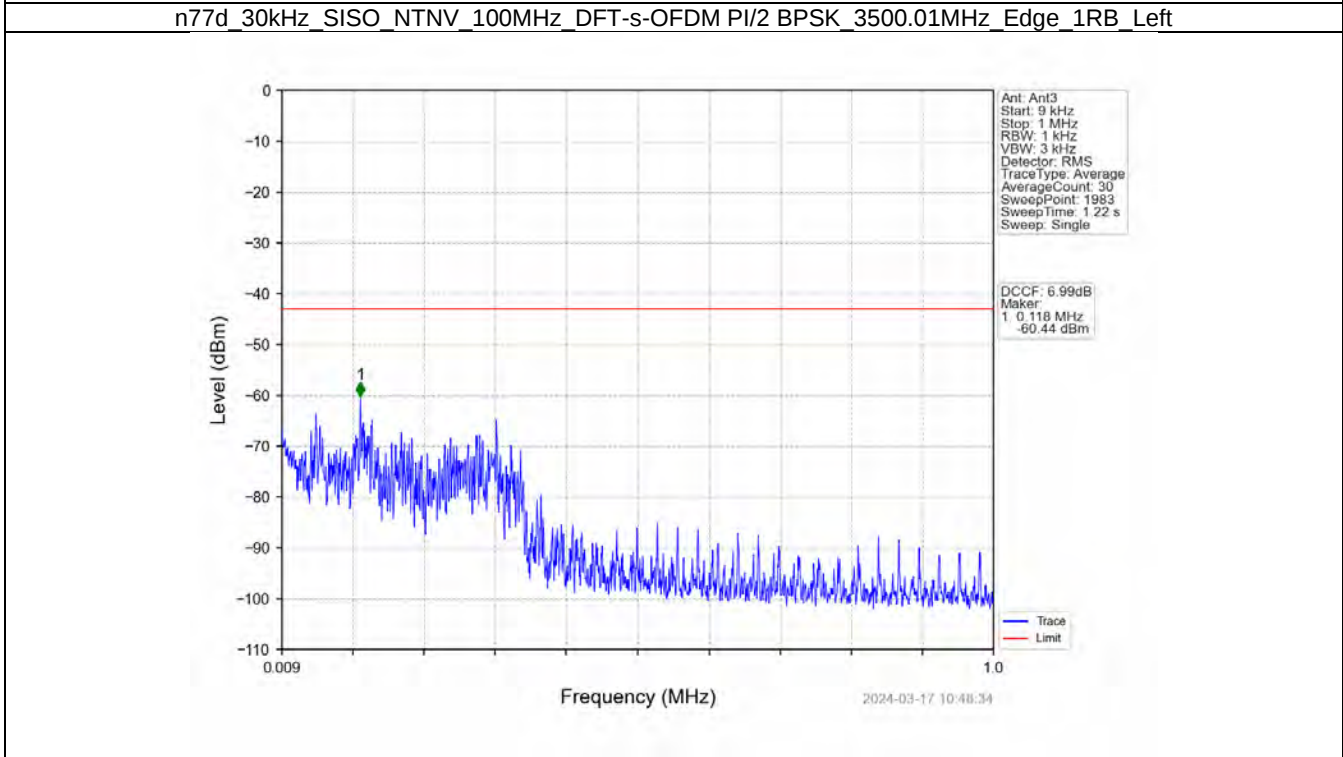
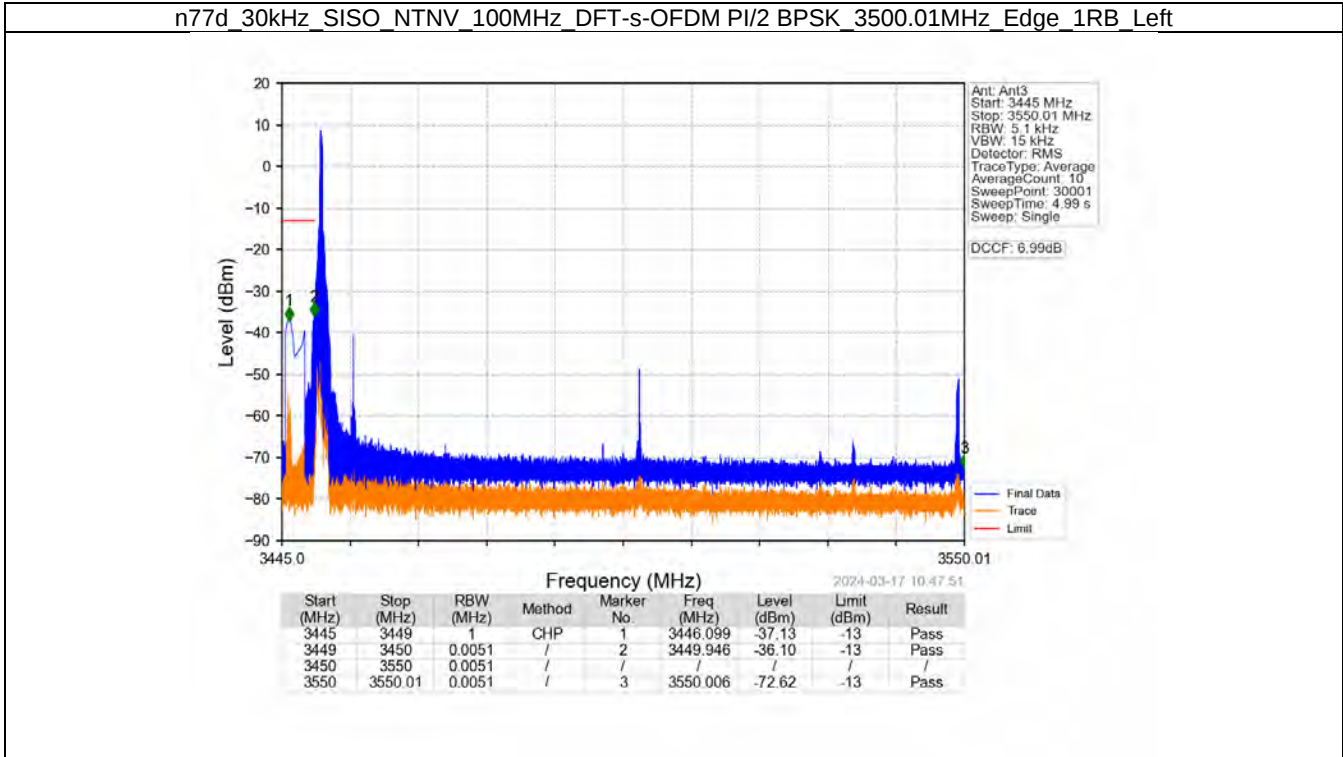


5.6 30k_SISO_100MHz_NTNV

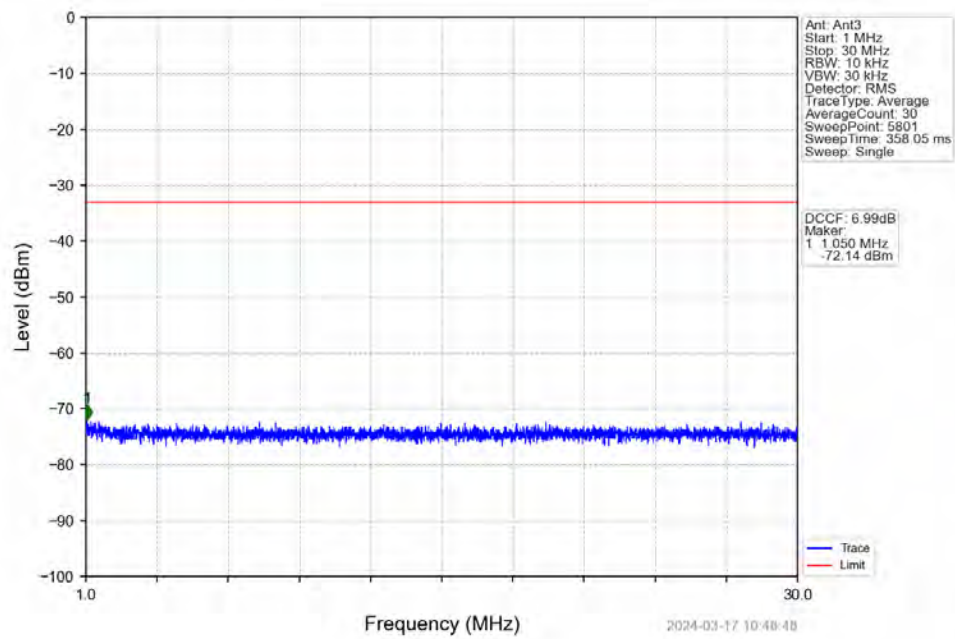
5.6.1 Test Result

5G NR n77d SCS=30kHz SISO 100MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant7	Ant2	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
		Inner_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass	
		3499.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
	Inner_1RB_Right		Refer To Test Graph				Pass	
	DFT-s-OFDM QPSK	3500.01	Edge_1RB_Left	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
Inner_1RB_Left			Refer To Test Graph				Pass	
3500.01		Edge_1RB_Left	Refer To Test Graph				Pass	
		3499.98	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
			Inner_1RB_Right	Refer To Test Graph				Pass

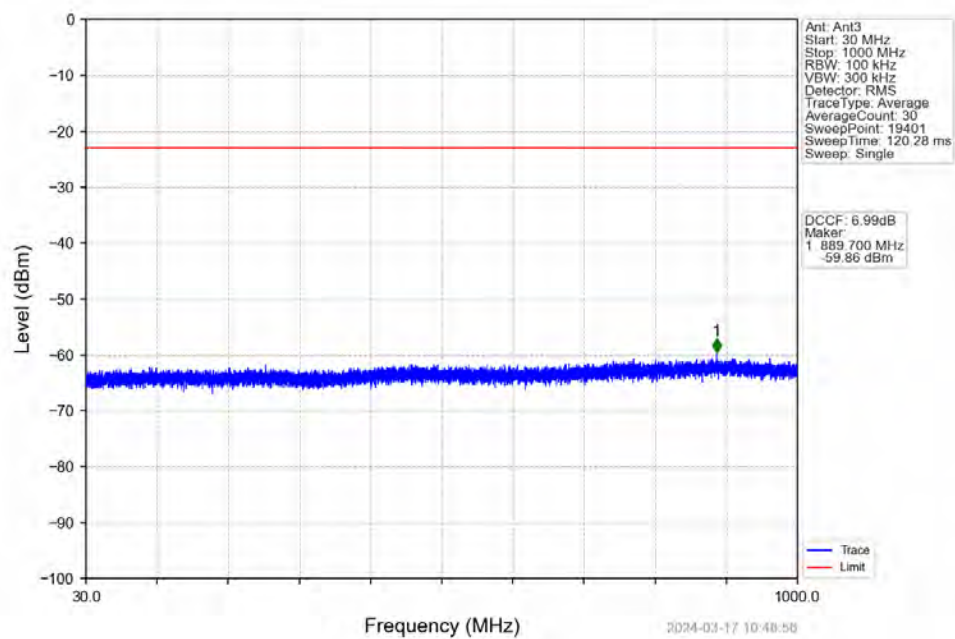
5.6.2 Test Graph



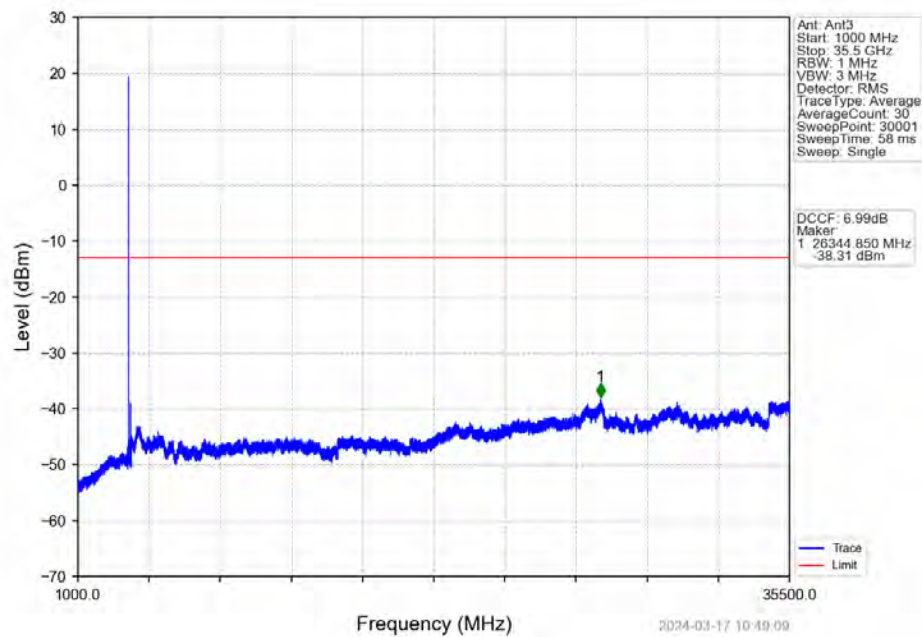
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



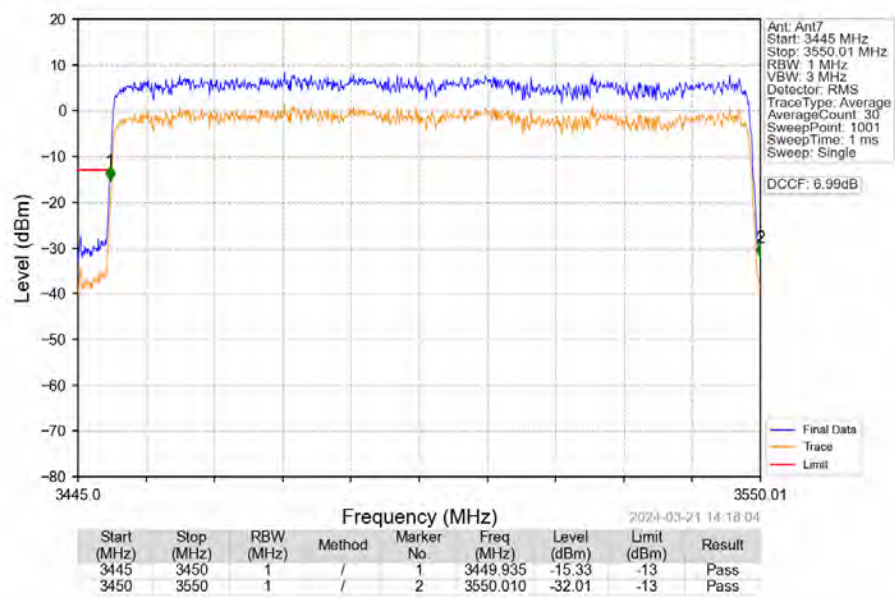
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



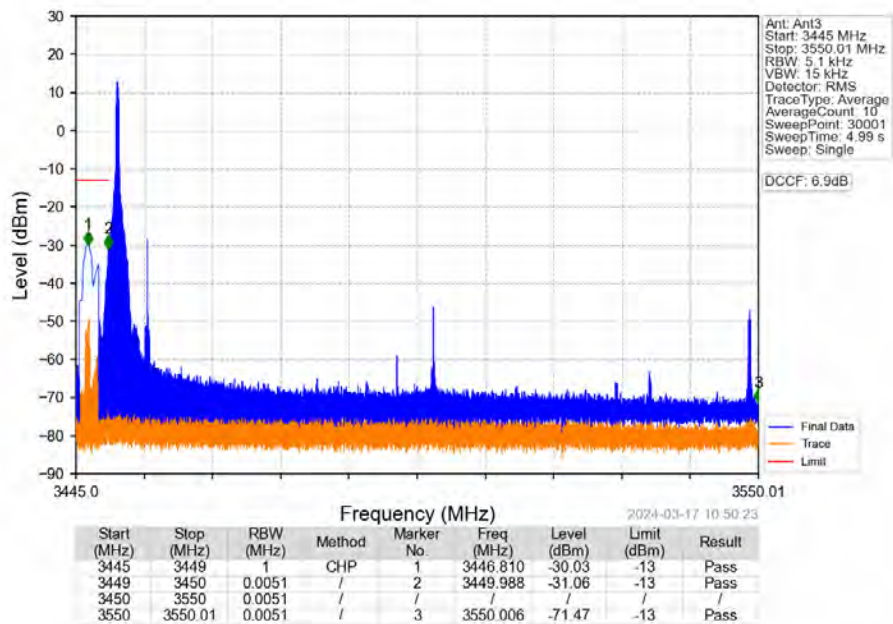
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



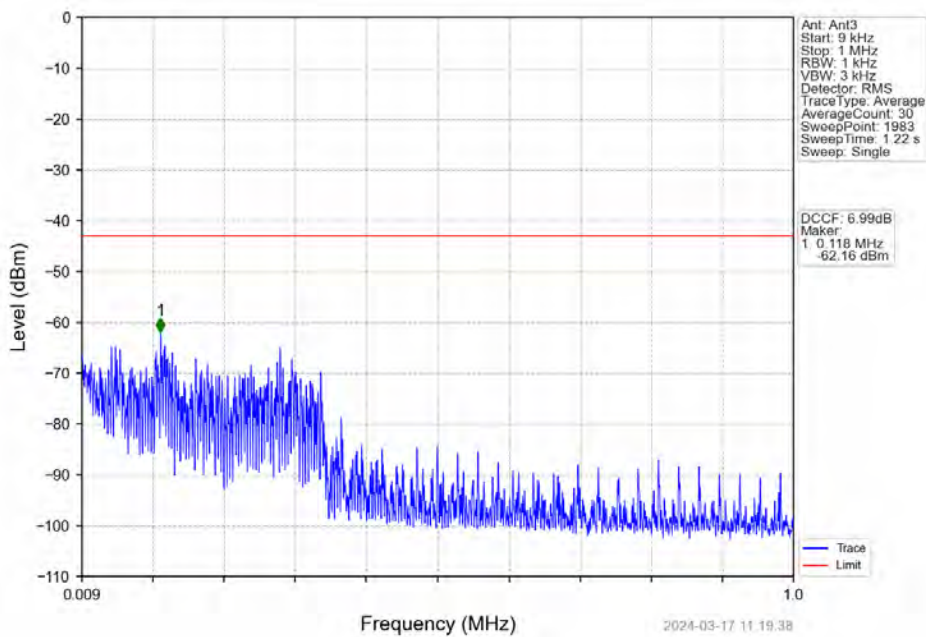
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Outer Full



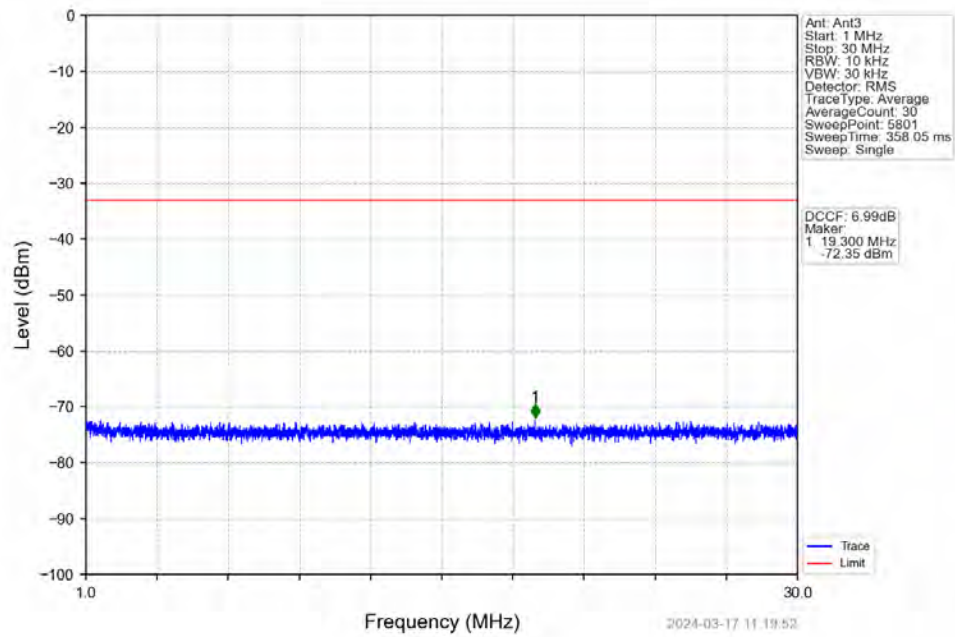
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Inner 1RB Left



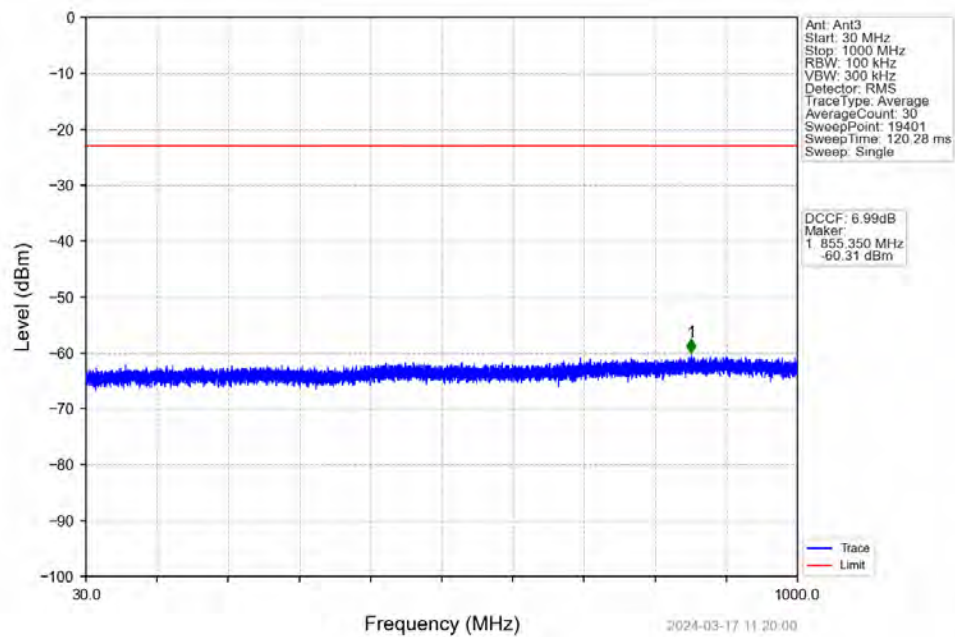
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



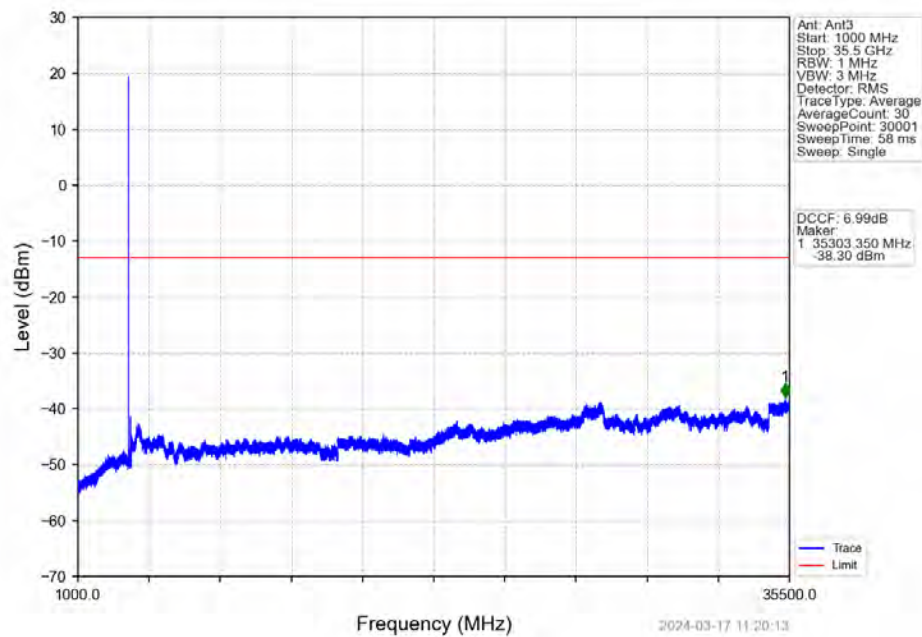
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



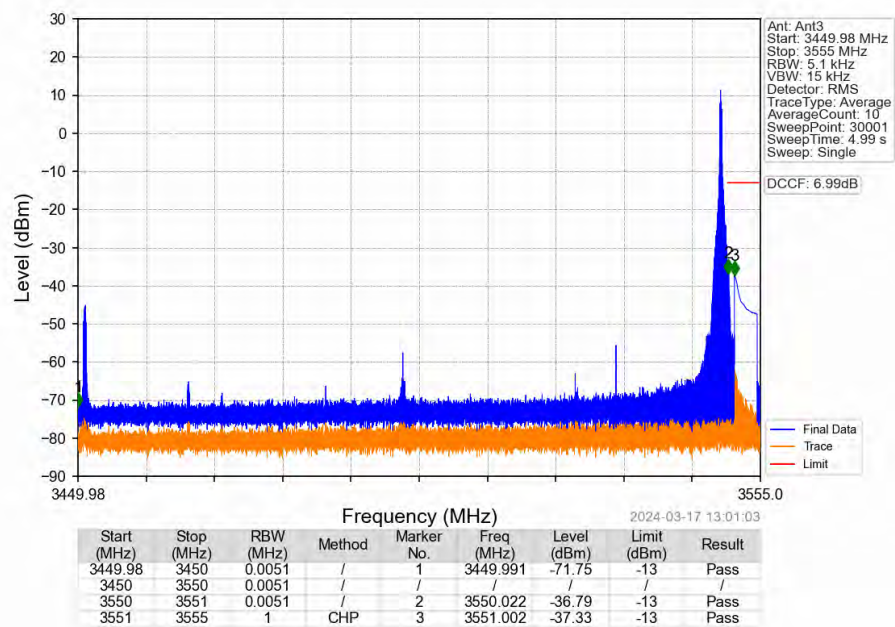
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



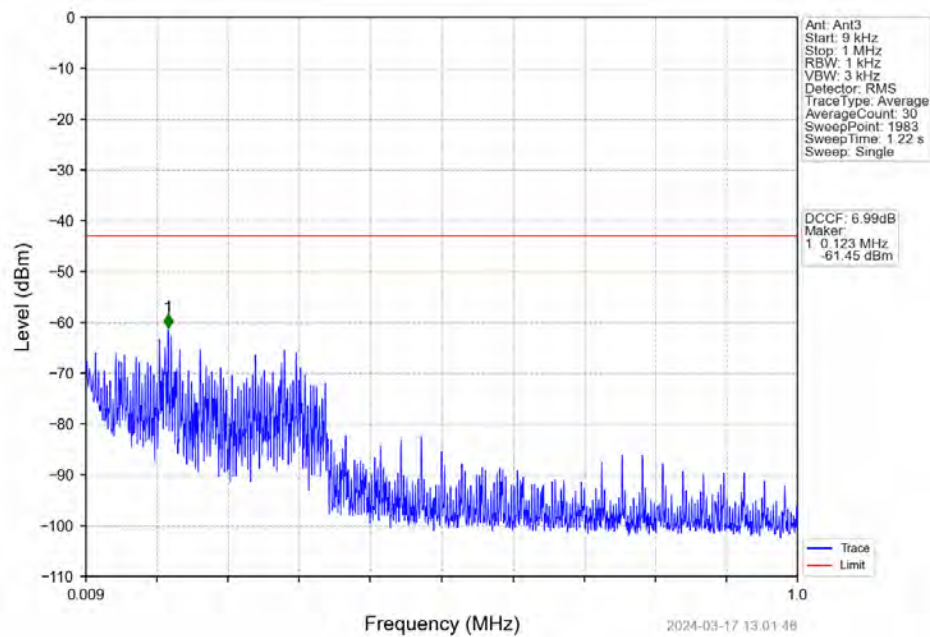
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3500.01MHz Edge 1RB Left



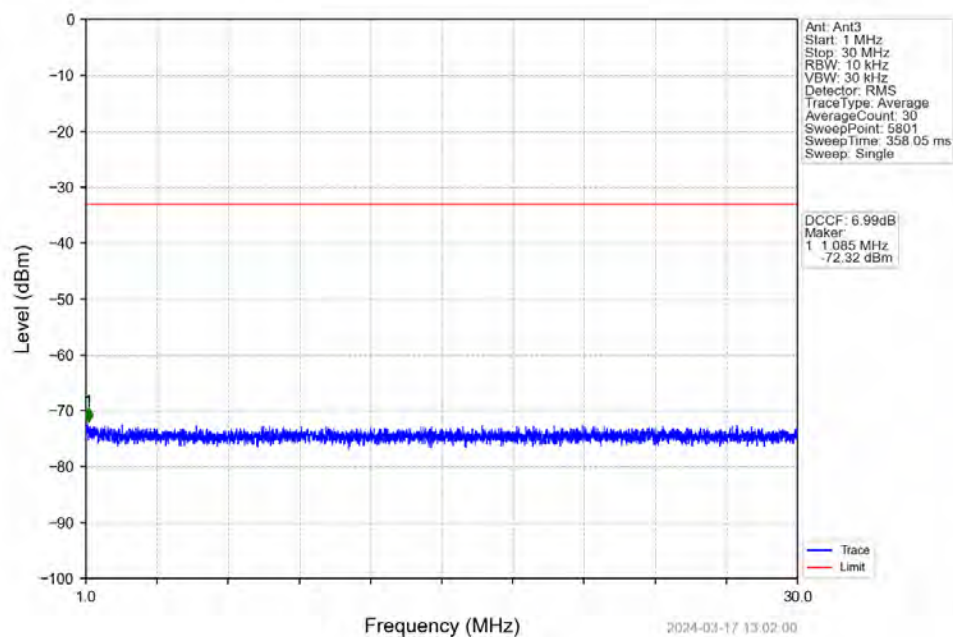
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Edge 1RB Right



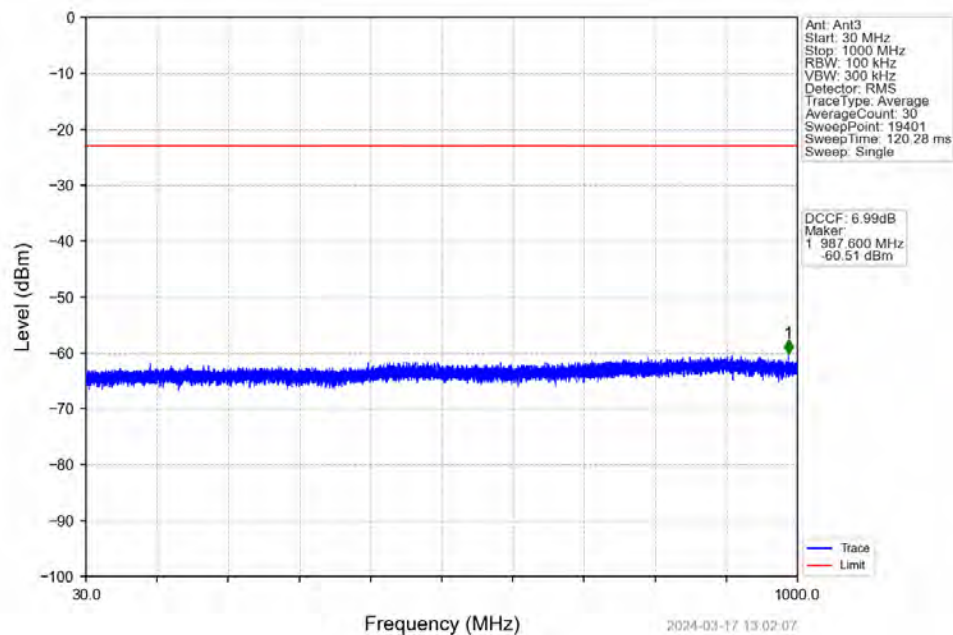
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Edge 1RB Right



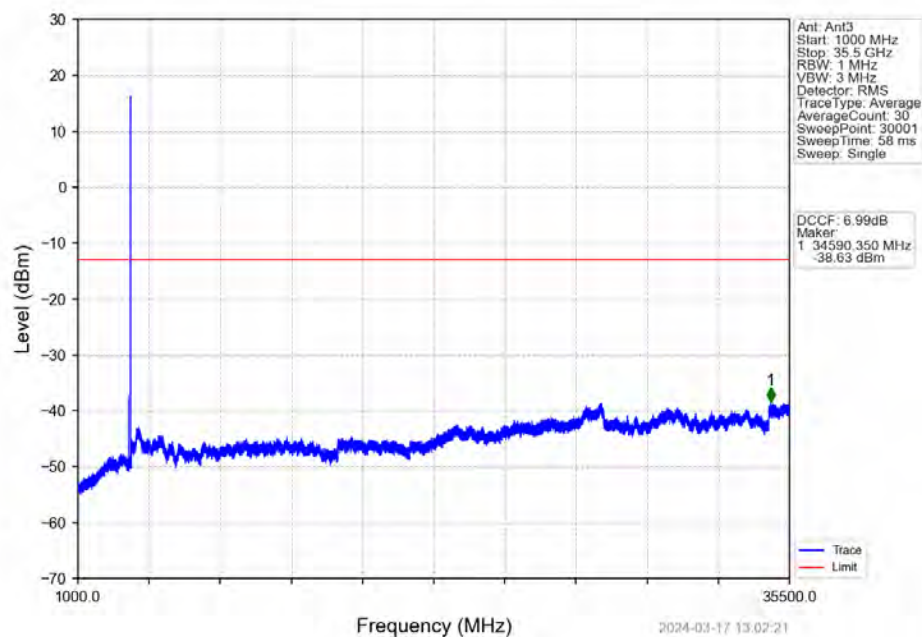
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Edge 1RB Right



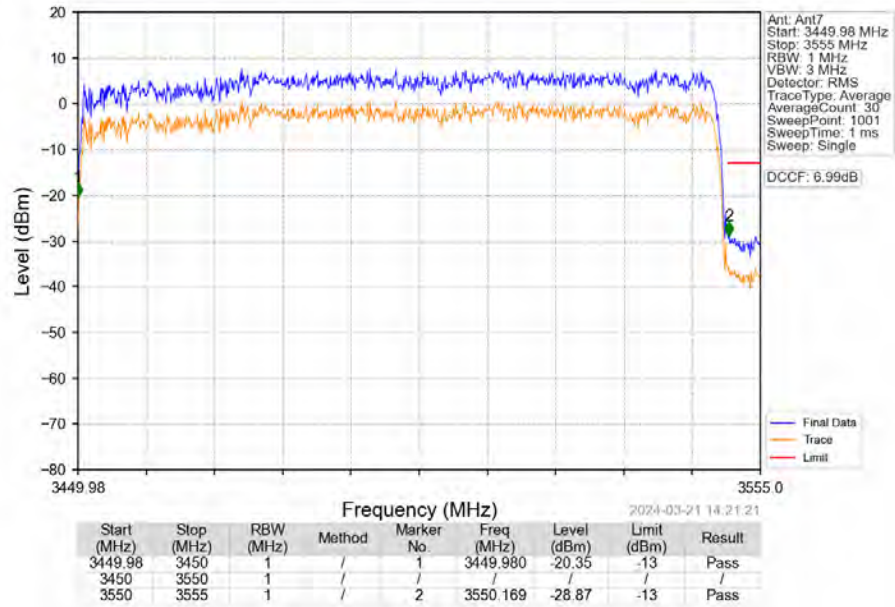
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Edge 1RB Right



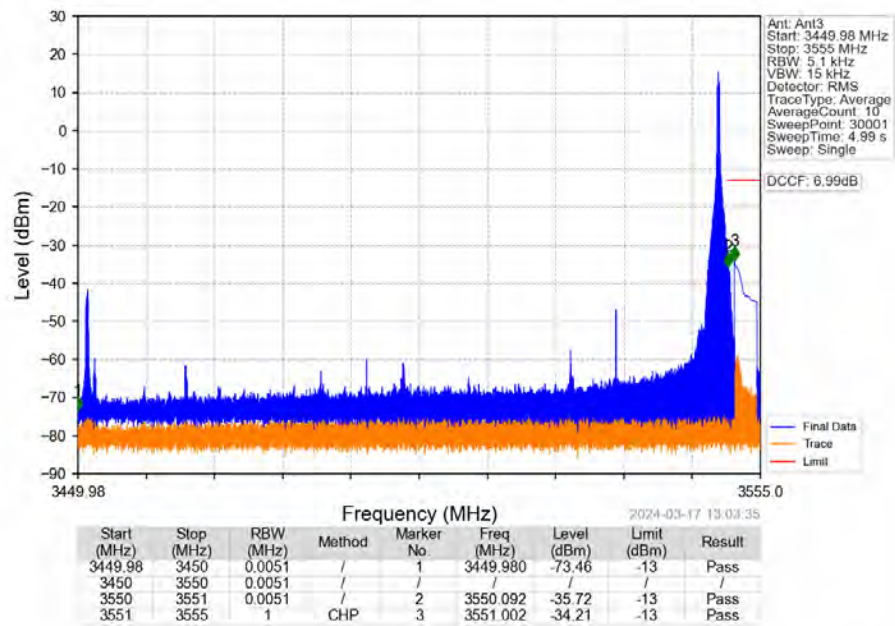
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Edge 1RB Right



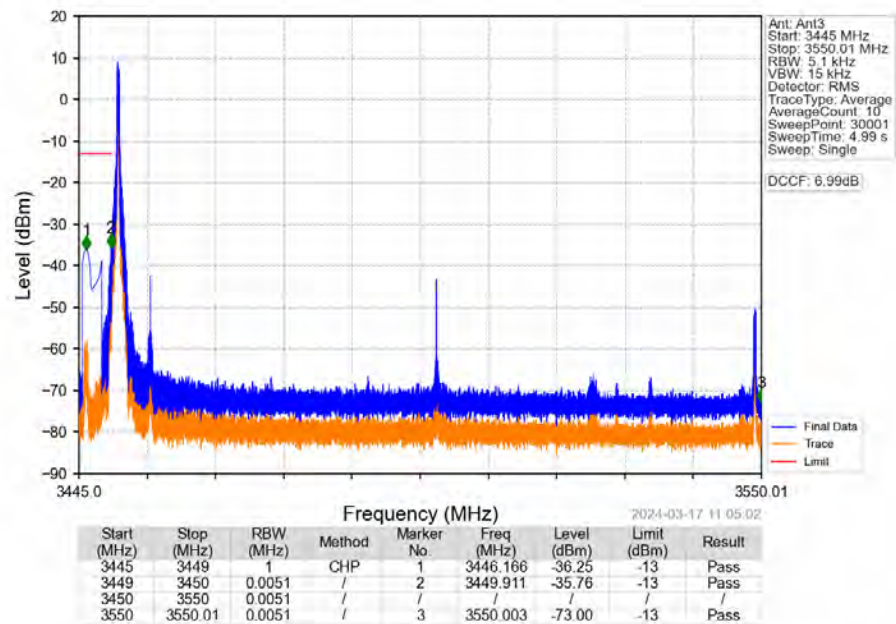
n77d 30kHz SISO NTNv 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Outer Full



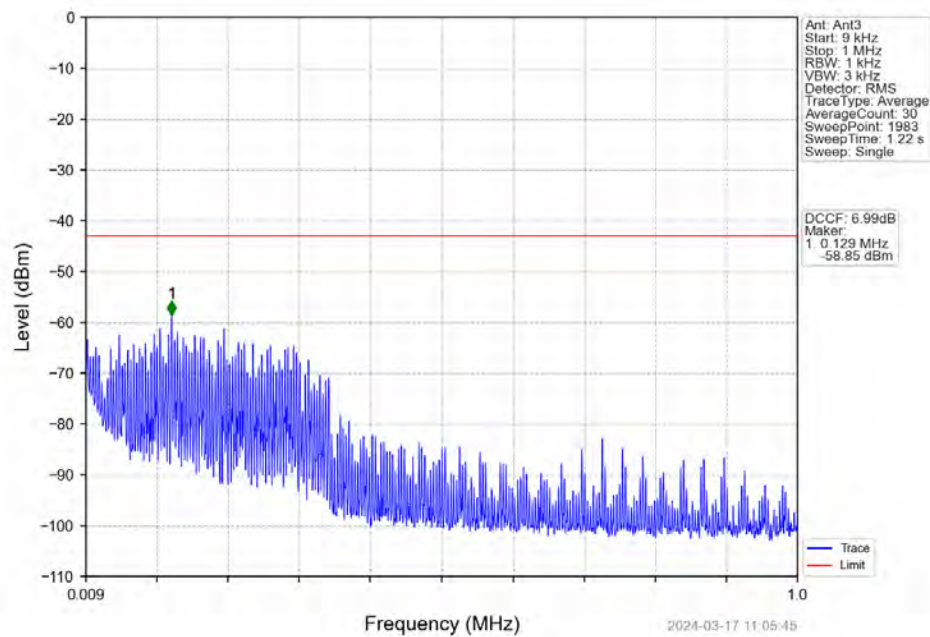
n77d 30kHz SISO NTNv 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Inner 1RB Right



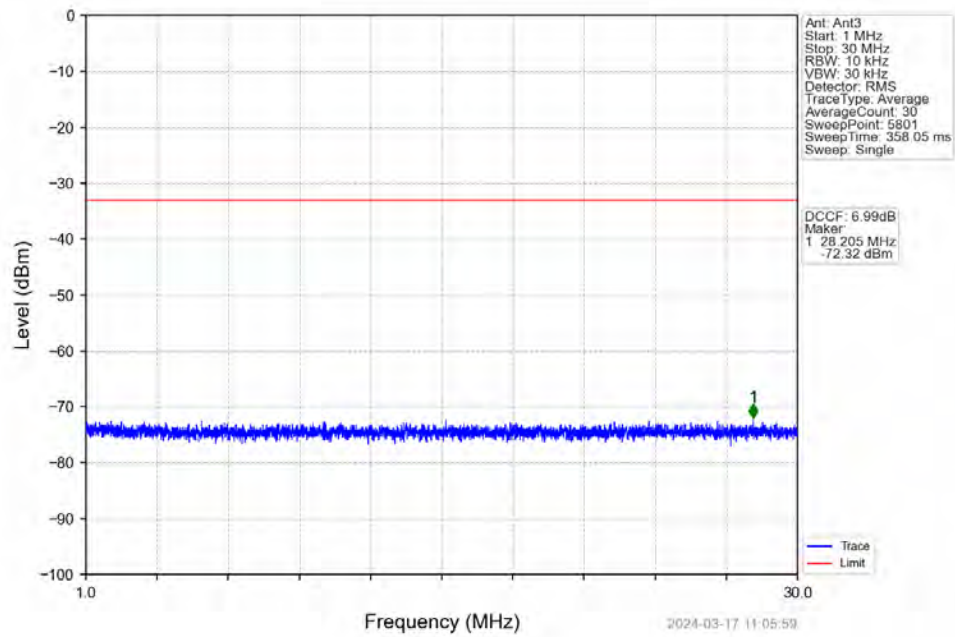
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



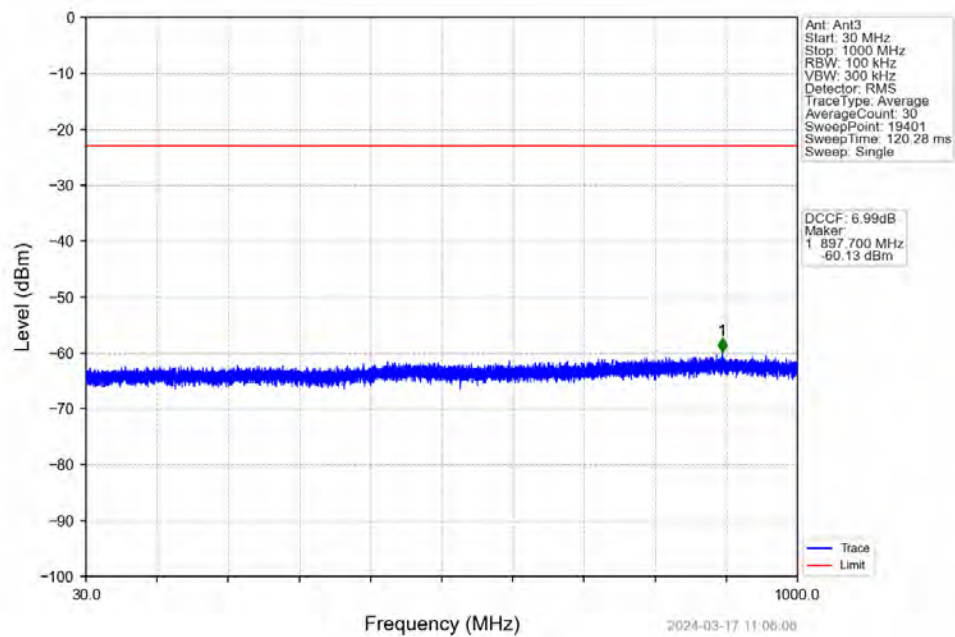
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



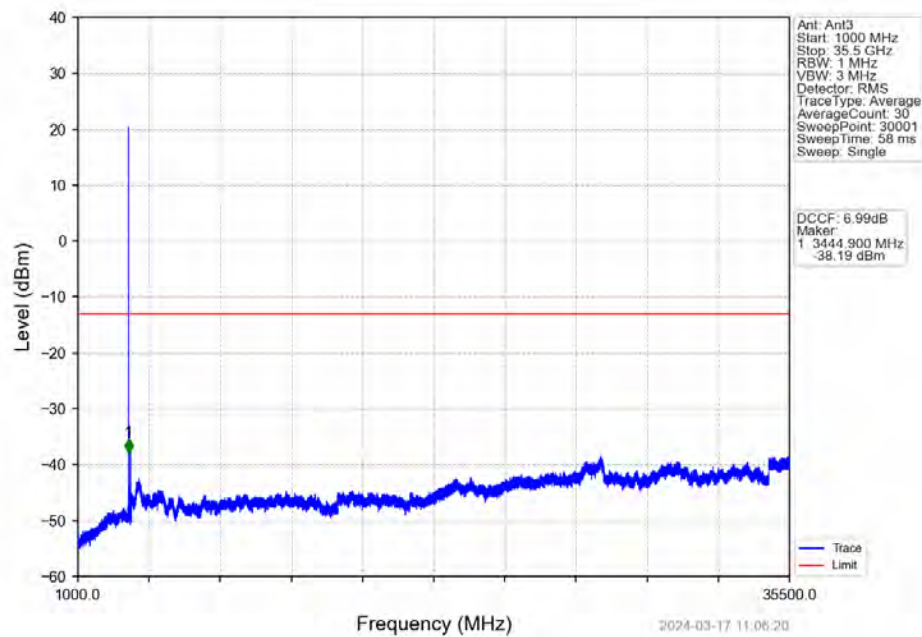
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



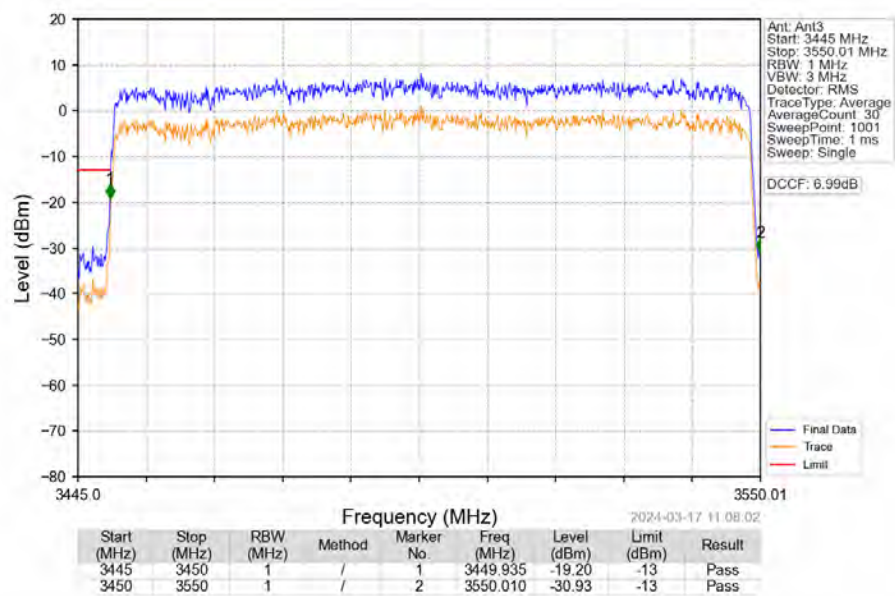
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



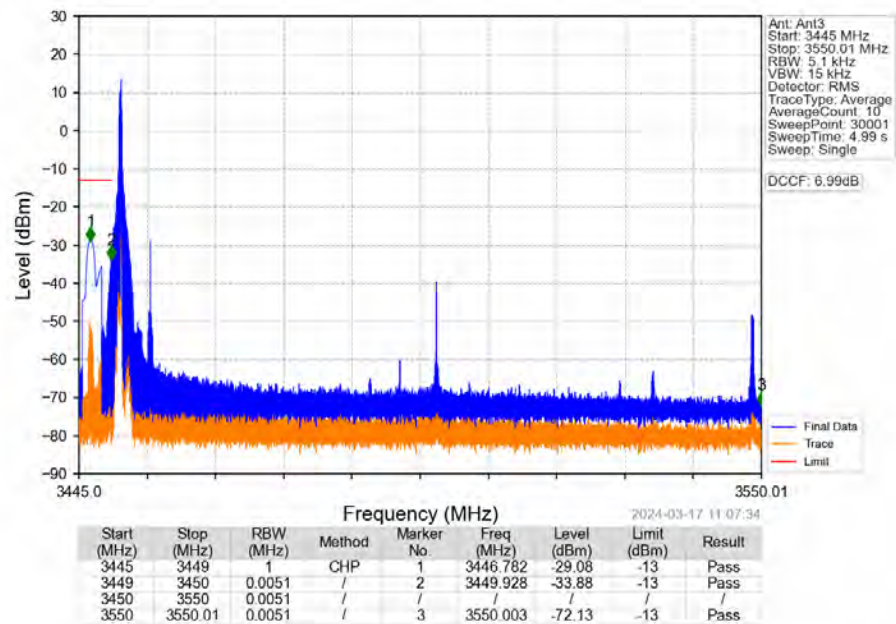
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Edge 1RB Left



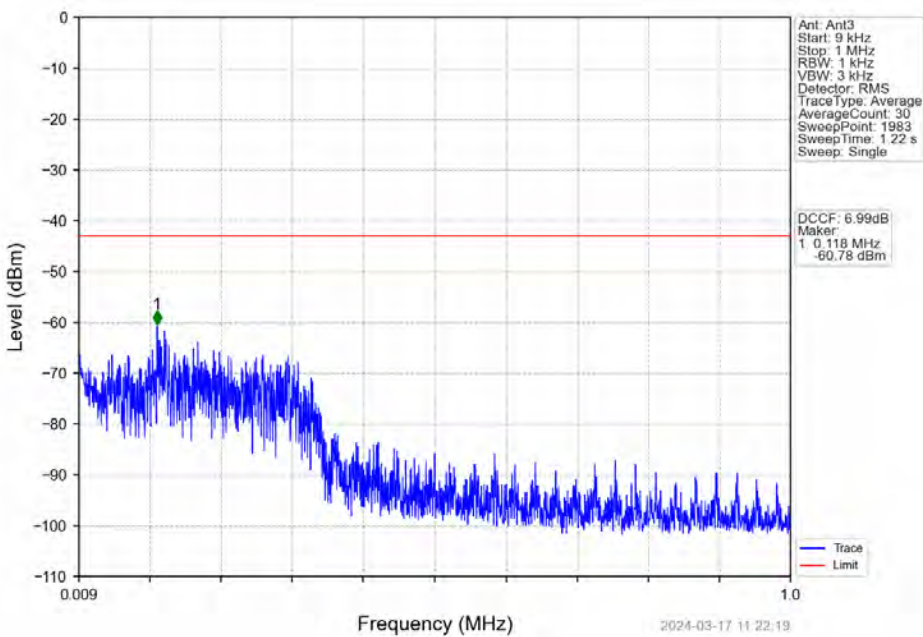
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Outer Full



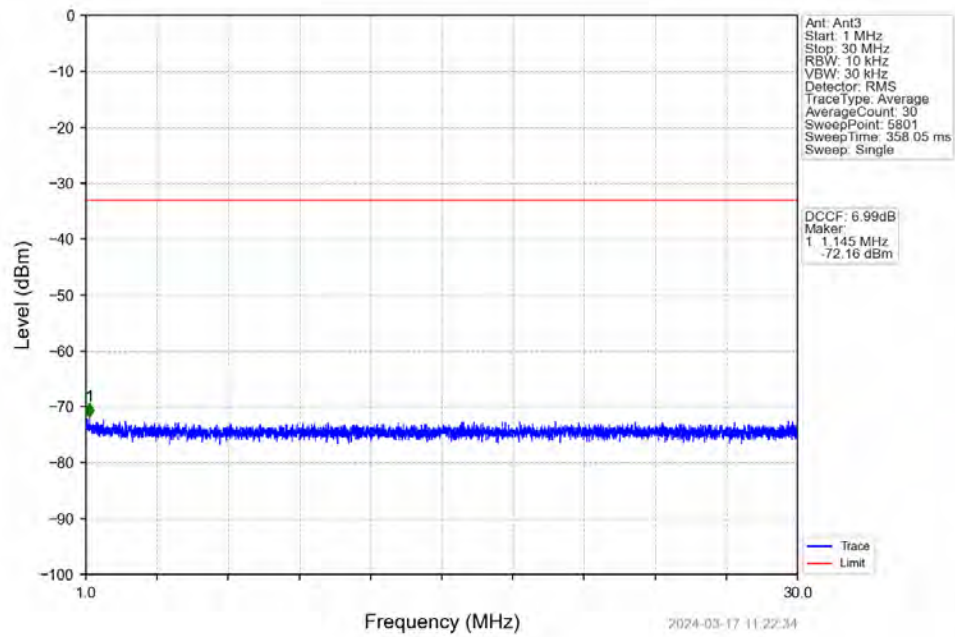
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Inner 1RB Left



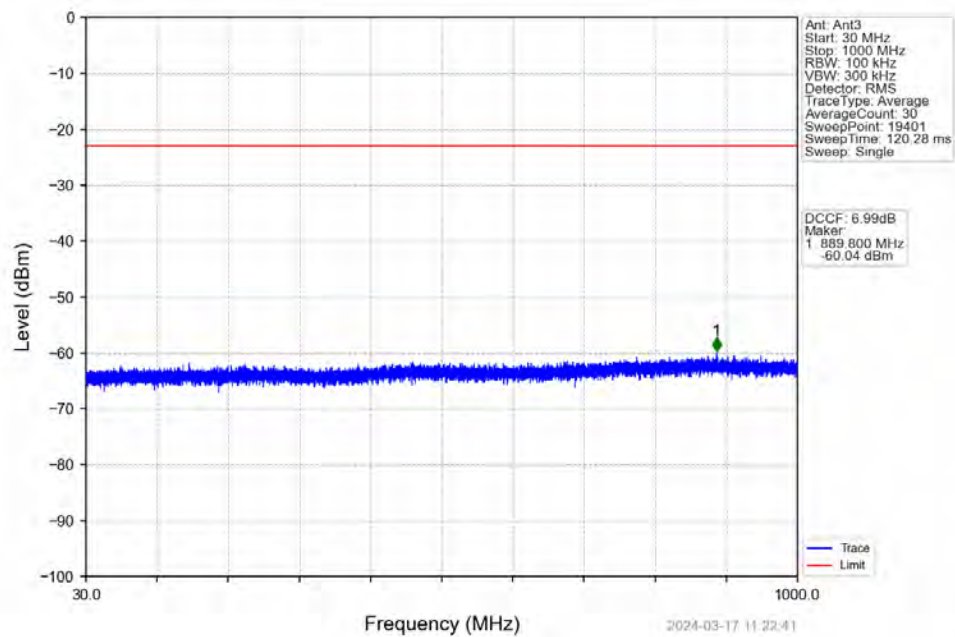
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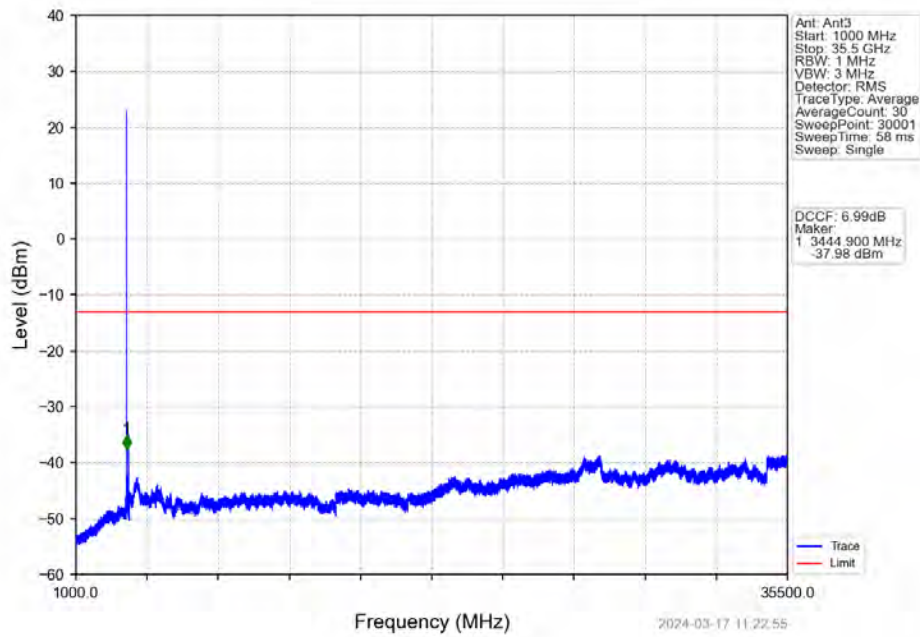
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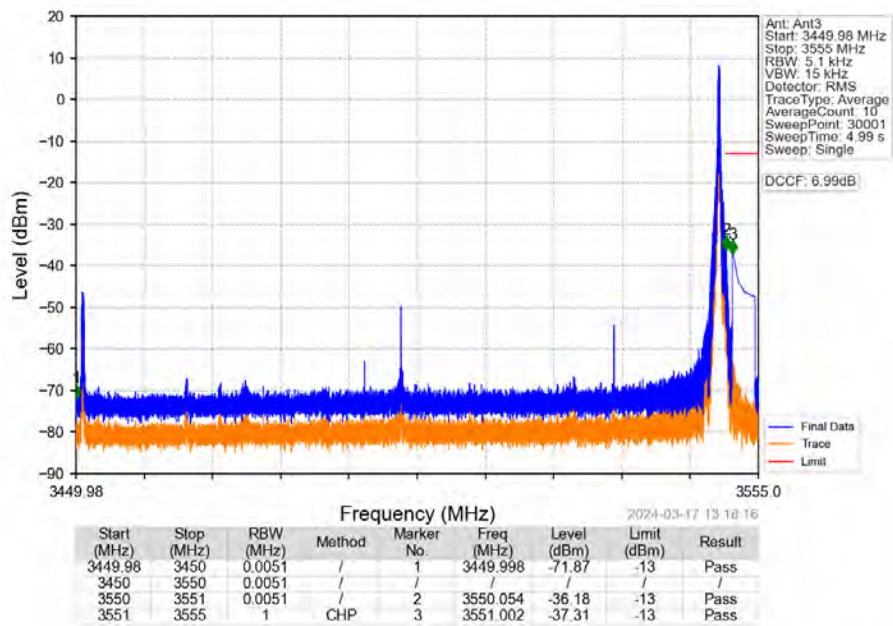
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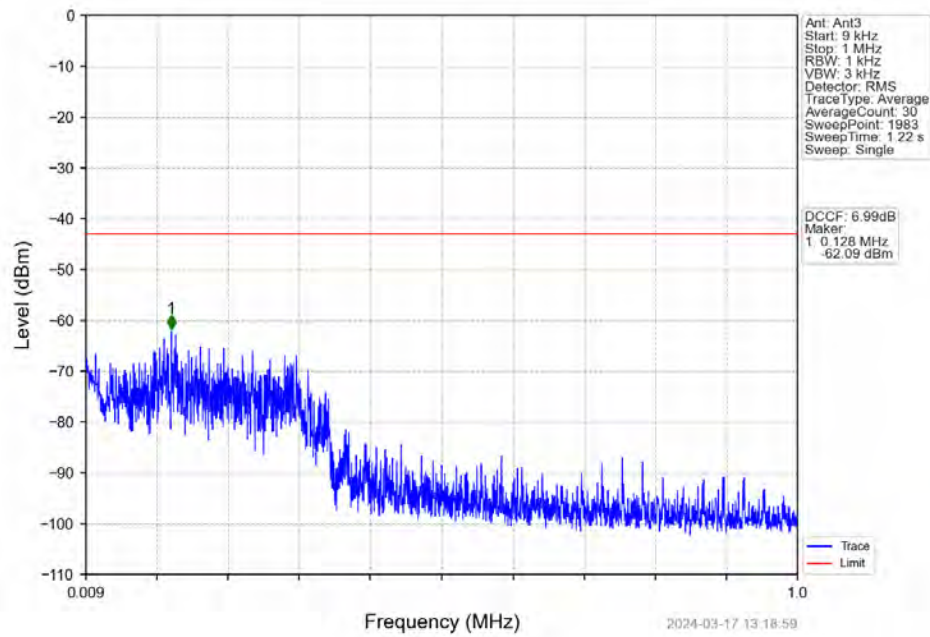
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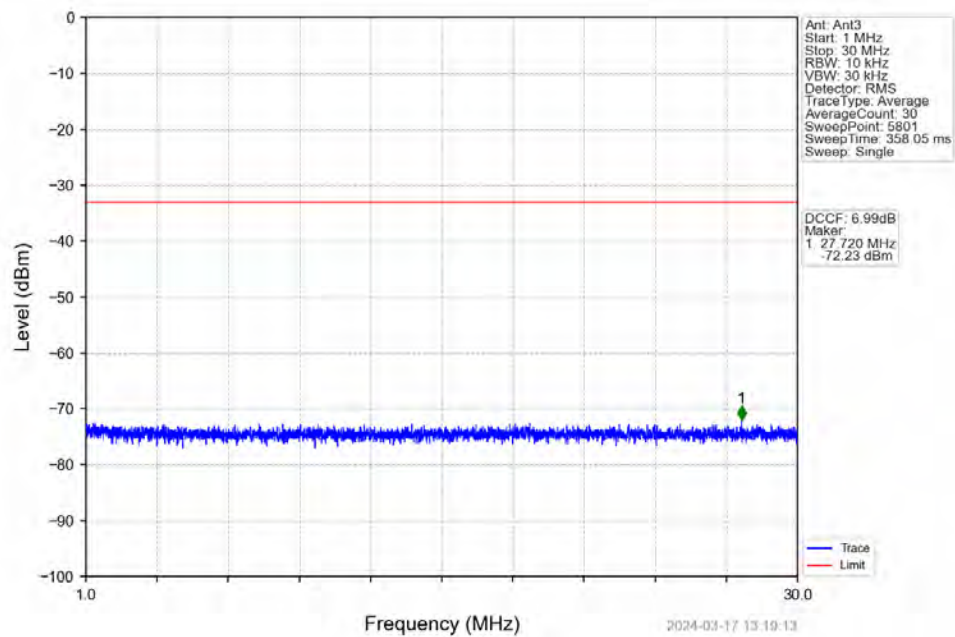
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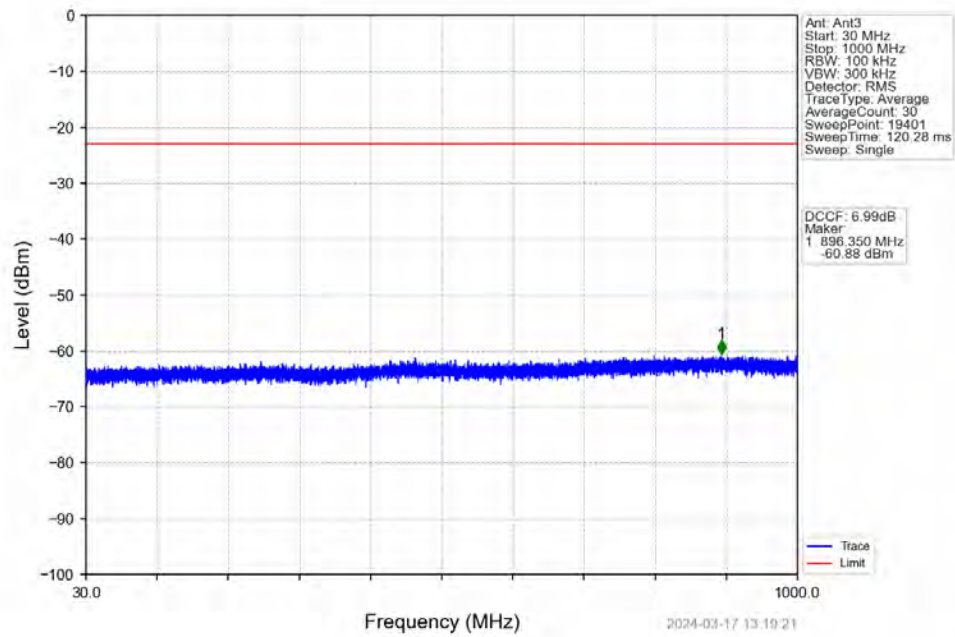
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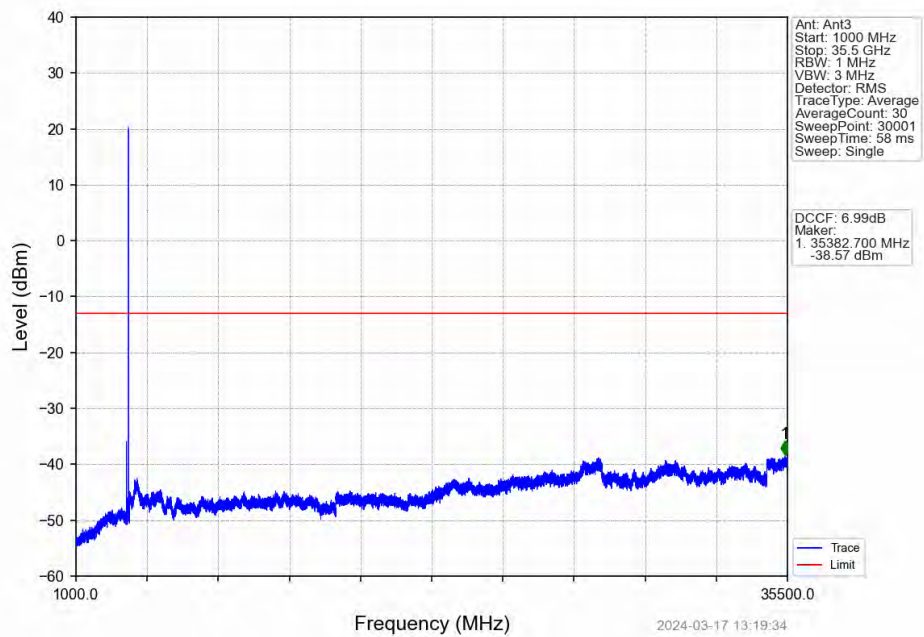
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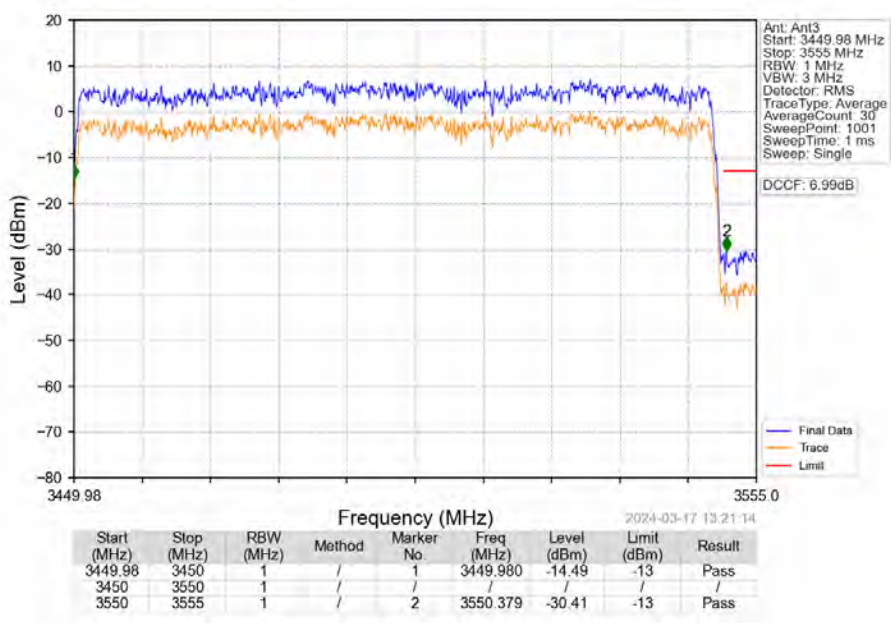
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3499.98MHz Edge 1RB Right



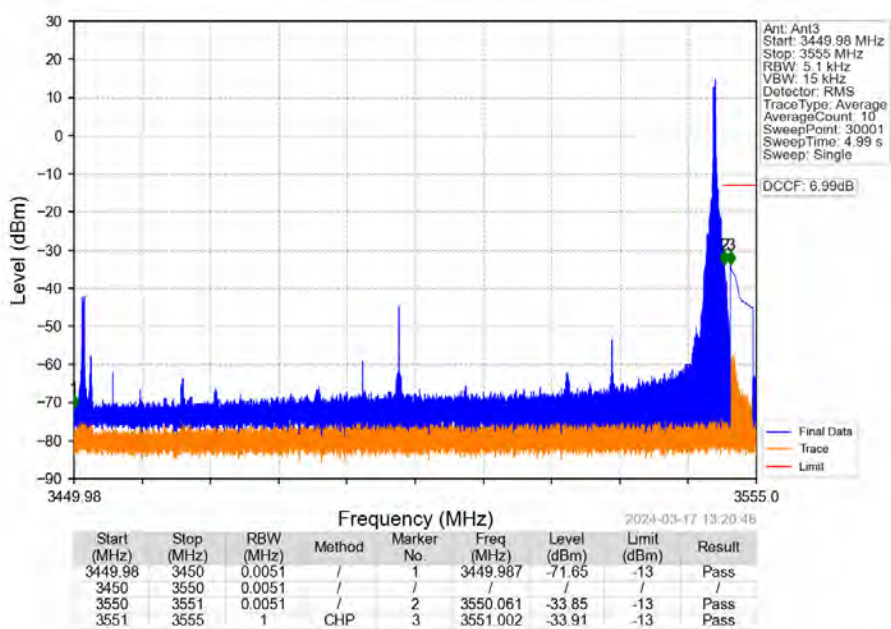
n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3499.98MHz Edge 1RB Right



n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3499.98MHz Outer Full



n77d 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3499.98MHz Inner 1RB Right



6. Field Strength of Spurious Radiation

SA Band 77 3450-3550- Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6910.0	-59.35	-13	-46.35	-65.45	4.91	11.01	Horizontal	Pass
10365.0	-54.9	-13	-41.9	-62.48	5.52	13.1	Horizontal	Pass
13820.0	-54.51	-13	-41.51	-62.68	6.21	14.38	Horizontal	Pass
6910.0	-60.38	-13	-47.38	-66.48	4.91	11.01	Vertical	Pass
10365.0	-53.3	-13	-40.3	-60.88	5.52	13.1	Vertical	Pass
13820.0	-54.53	-13	-41.53	-62.7	6.21	14.38	Vertical	Pass

NSA DC_2A_n77A 3450-3550- Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
6910.0	-60.15	-13	-47.15	-66.25	4.91	11.01	Horizontal	Pass
10365.0	-55.7	-13	-42.7	-63.28	5.52	13.1	Horizontal	Pass
13820.0	-53.03	-13	-40.03	-61.2	6.21	14.38	Horizontal	Pass
6910.0	-60.5	-13	-47.5	-66.6	4.91	11.01	Vertical	Pass
10365.0	-52.09	-13	-39.09	-59.67	5.52	13.1	Vertical	Pass
13820.0	-54.63	-13	-41.63	-62.8	6.21	14.38	Vertical	Pass