

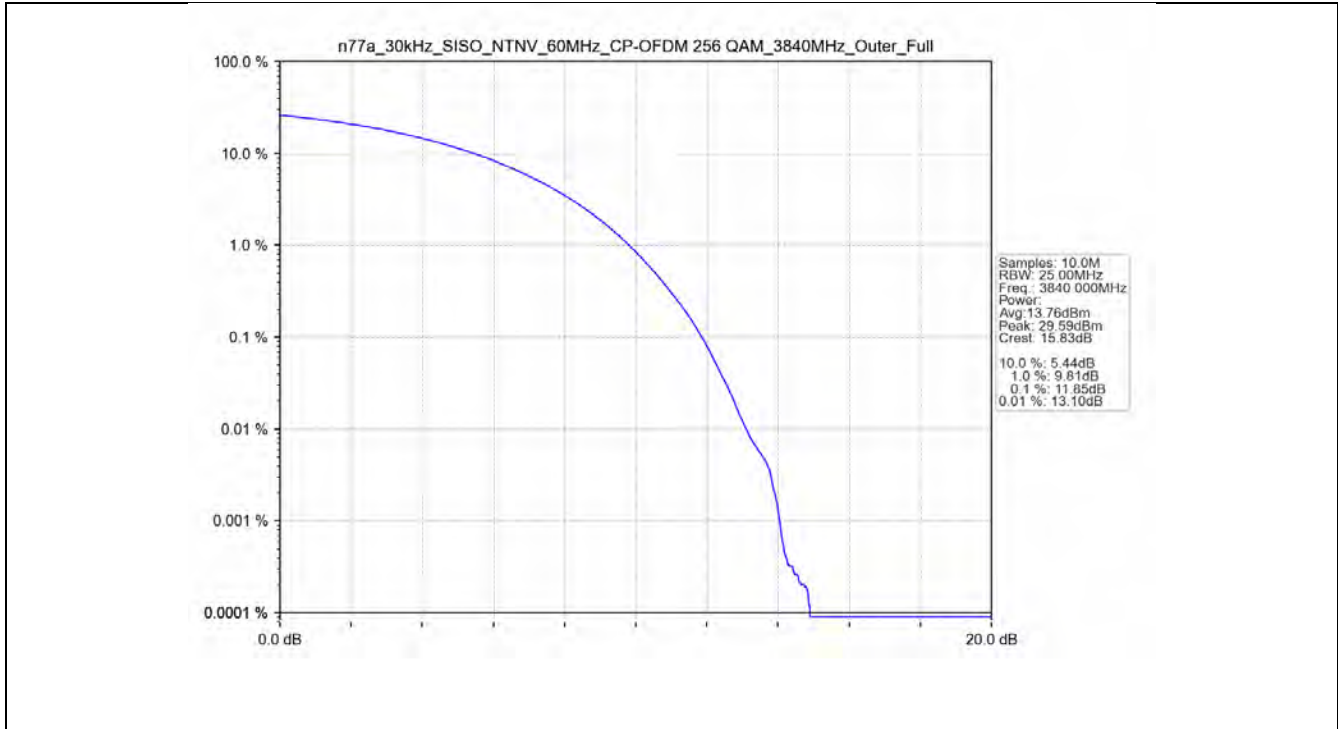


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Report No.: SZCR240100038409

Rev.: 01

Page: 327 of 973



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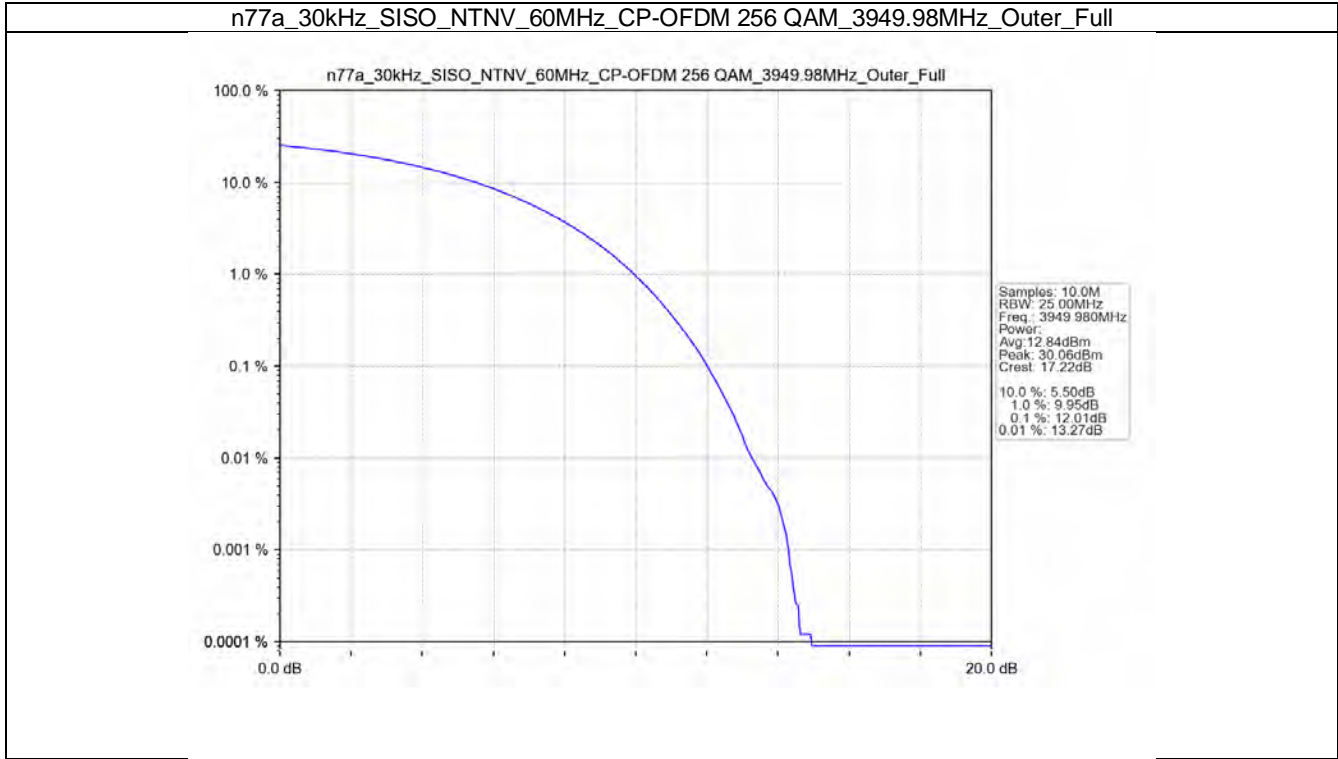


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Page: 328 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 329 of 973

## 4.5 30k\_SISO\_80MHz\_NTNV

### 4.5.1 Test Result

5G NR n77a SCS=30kHz SISO 80MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	10.33	/	/	<=13	Pass
	3840	Outer_Full	11.06	/	/	<=13	Pass
	3939.99	Outer_Full	10.27	/	/	<=13	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	10.52	/	/	<=13	Pass
	3840	Outer_Full	10.84	/	/	<=13	Pass
	3939.99	Outer_Full	10.94	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	10.70	/	/	<=13	Pass
	3840	Outer_Full	11.07	/	/	<=13	Pass
	3939.99	Outer_Full	11.11	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	10.81	/	/	<=13	Pass
	3840	Outer_Full	10.96	/	/	<=13	Pass
	3939.99	Outer_Full	11.42	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	11.16	/	/	<=13	Pass
	3840	Outer_Full	11.05	/	/	<=13	Pass
	3939.99	Outer_Full	11.17	/	/	<=13	Pass
CP-OFDM QPSK	3740.01	Outer_Full	11.27	/	/	<=13	Pass
	3840	Outer_Full	11.70	/	/	<=13	Pass
	3939.99	Outer_Full	11.67	/	/	<=13	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	10.82	/	/	<=13	Pass
	3840	Outer_Full	11.48	/	/	<=13	Pass
	3939.99	Outer_Full	12.35	/	/	<=13	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	11.63	/	/	<=13	Pass
	3840	Outer_Full	11.95	/	/	<=13	Pass
	3939.99	Outer_Full	12.53	/	/	<=13	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	11.43	/	/	<=13	Pass
	3840	Outer_Full	11.71	/	/	<=13	Pass
	3939.99	Outer_Full	11.62	/	/	<=13	Pass



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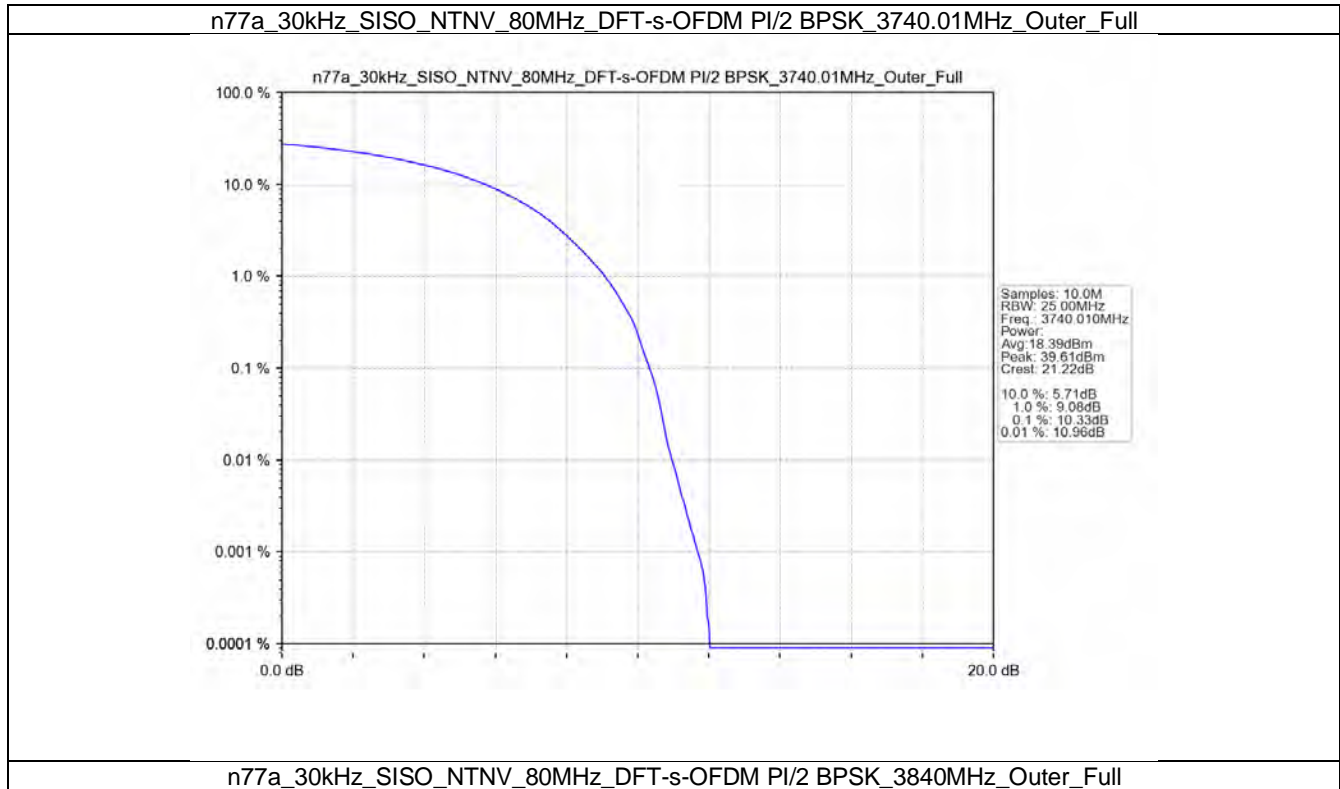
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Report No.: SZCR240100038409

Rev.: 01

Page: 330 of 973

4.5.2 Test Graph



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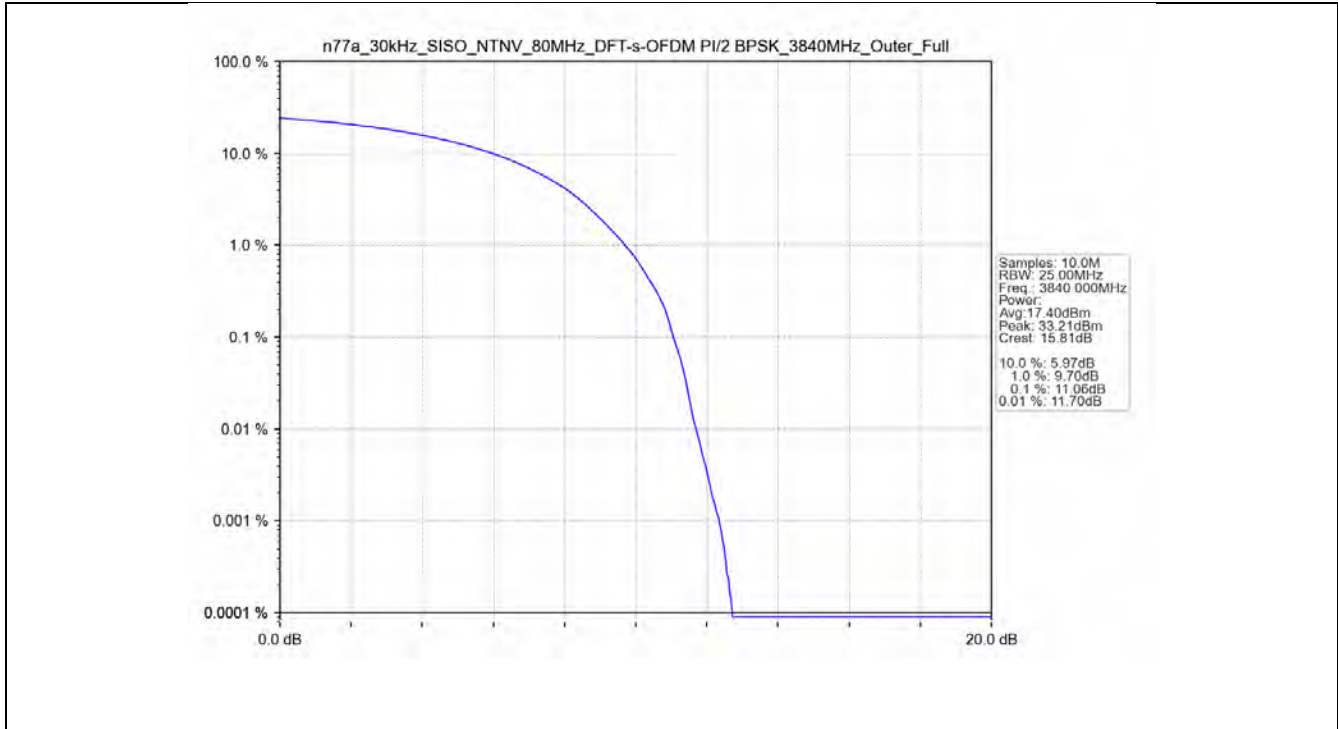


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Report No.: SZCR240100038409

Rev.: 01

Page: 331 of 973



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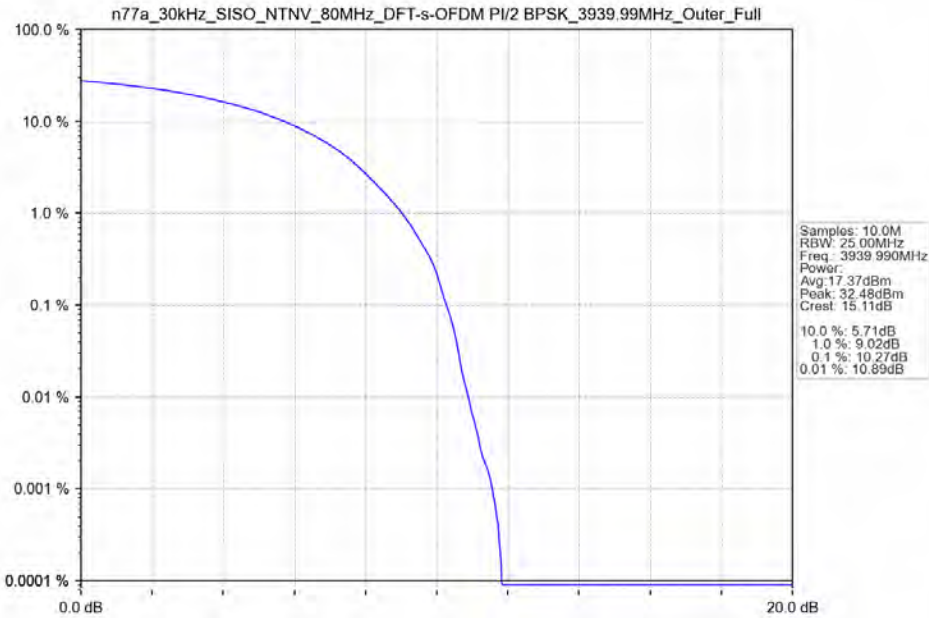
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Report No.: SZCR240100038409

Rev.: 01

Page: 332 of 973

n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM PI/2 BPSK\_3939.99MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3740.01MHz\_Outer\_Full



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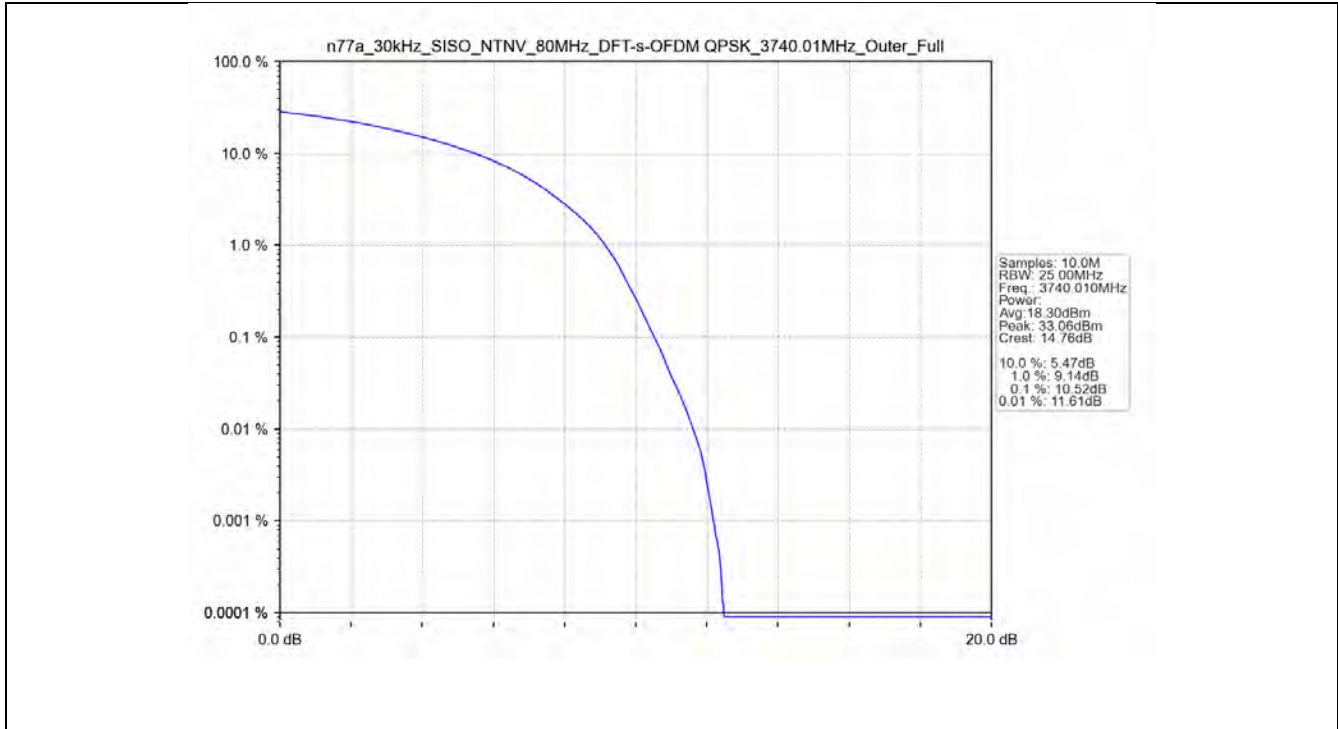


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Rev.: 01

Page: 333 of 973



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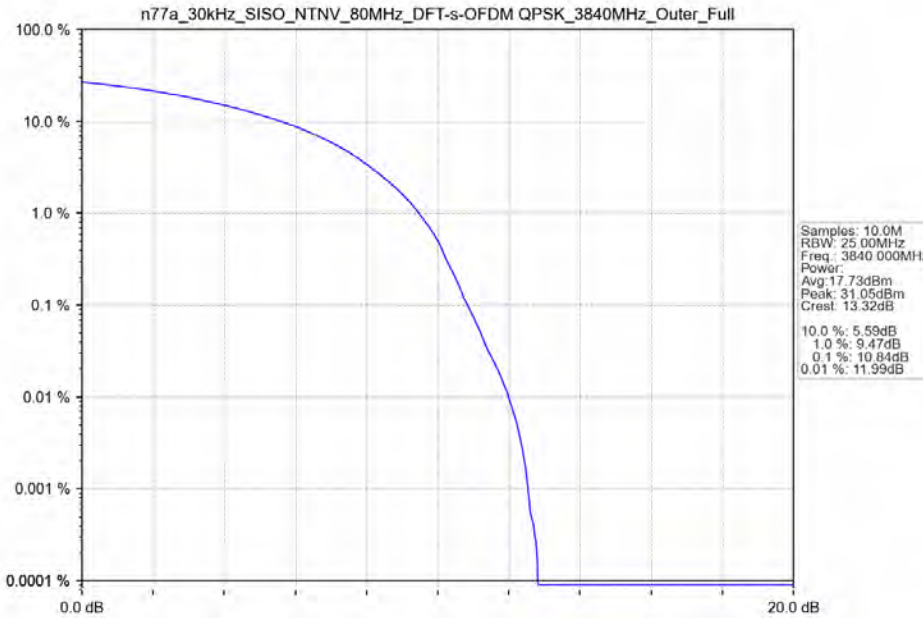
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Report No.: SZCR240100038409

Rev.: 01

Page: 334 of 973

n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM QPSK\_3939.99MHz\_Outer\_Full



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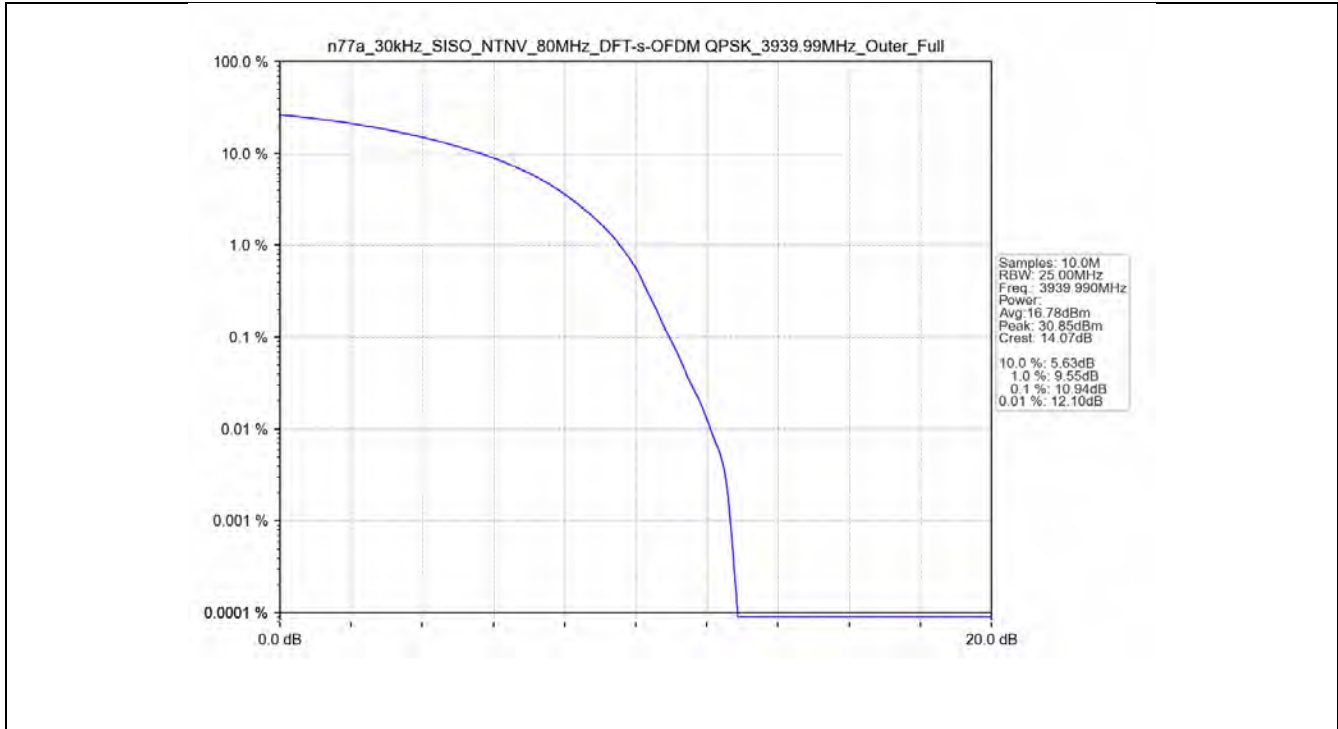


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Report No.: SZCR240100038409

Rev.: 01

Page: 335 of 973



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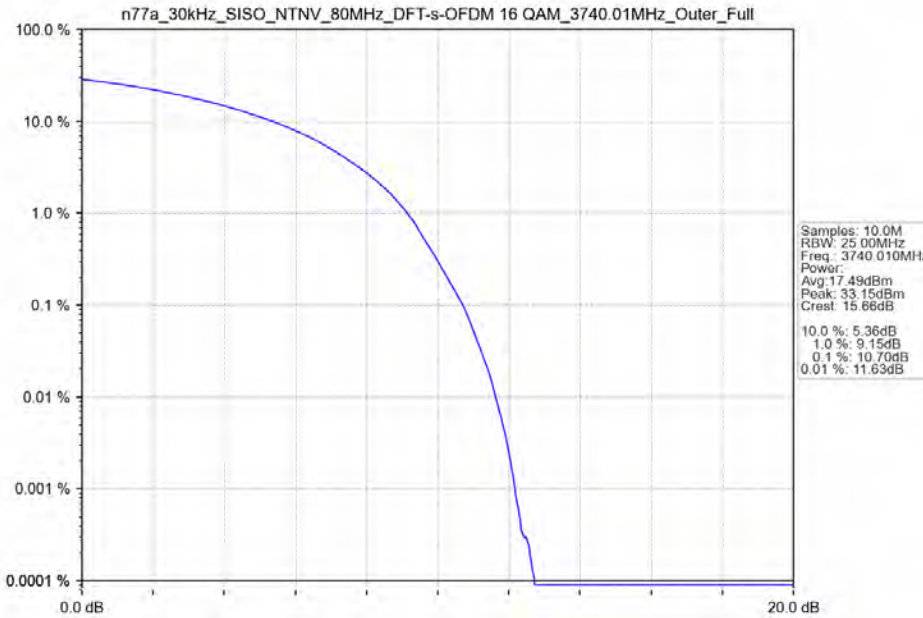
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Report No.: SZCR240100038409

Rev.: 01

Page: 336 of 973

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n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM\_16\_QAM\_3840MHz\_Outer\_Full



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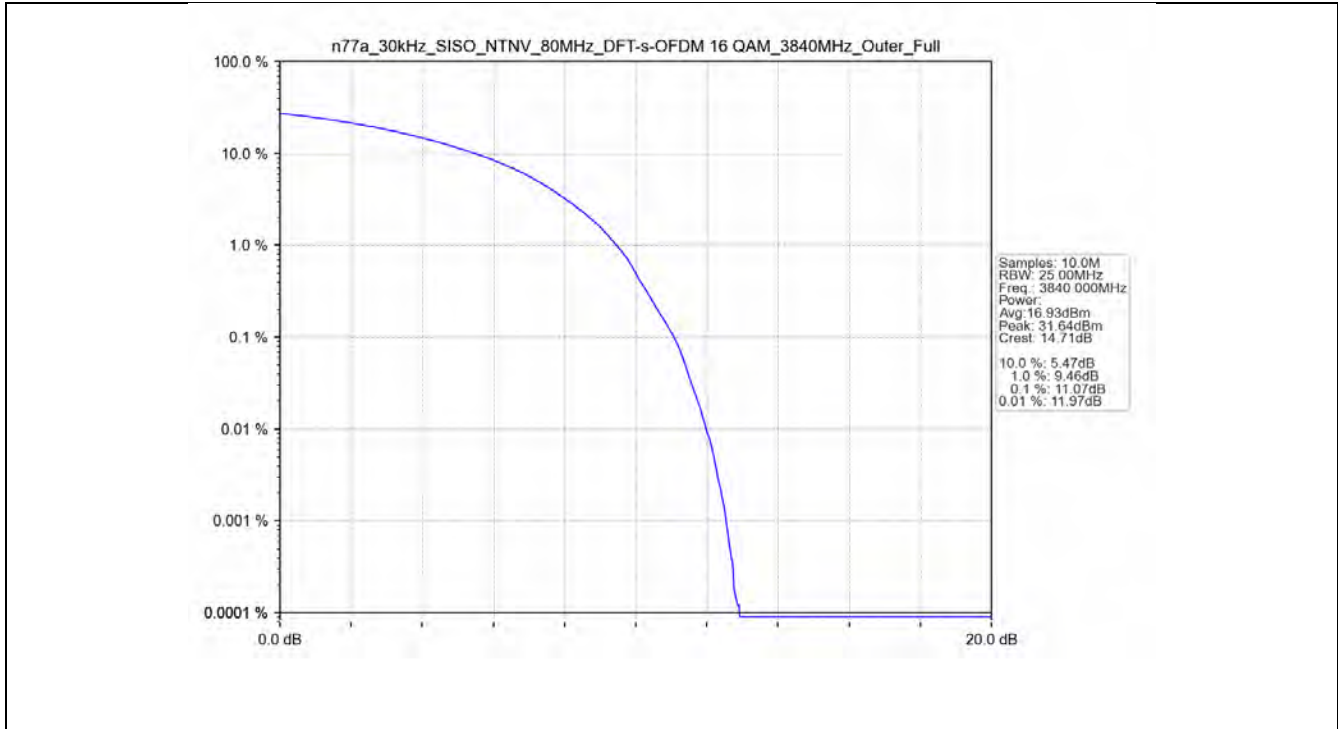


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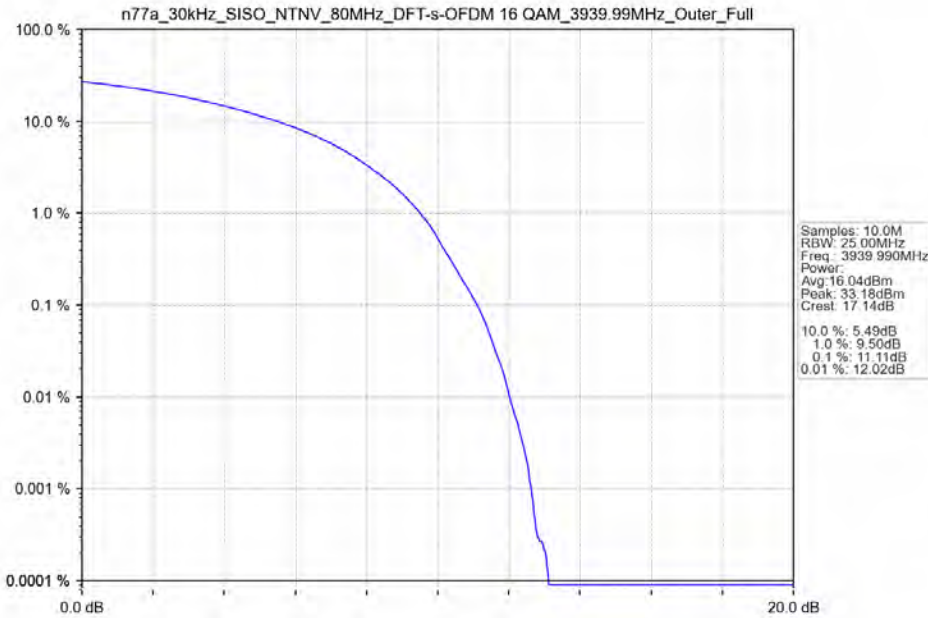
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Report No.: SZCR240100038409

Rev.: 01

Page: 338 of 973

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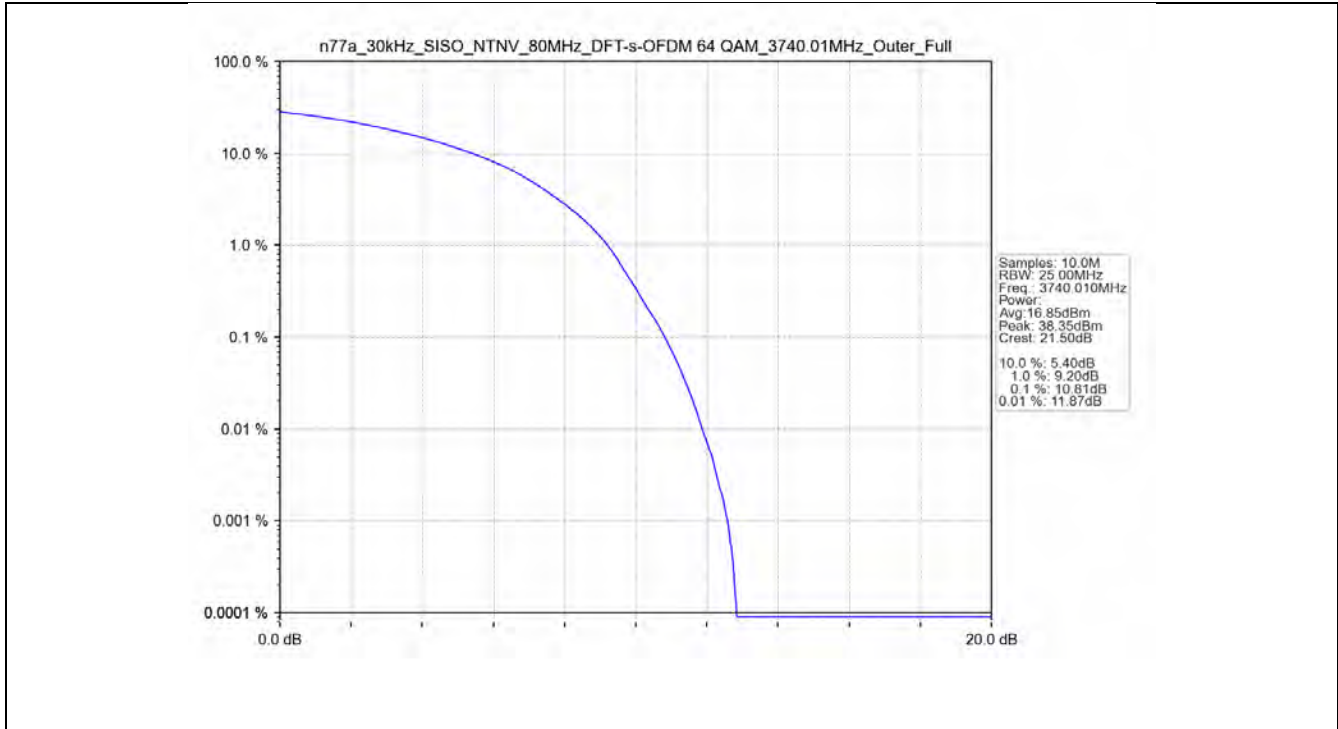


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Rev.: 01

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Report No.: SZCR240100038409

Rev.: 01

Page: 340 of 973



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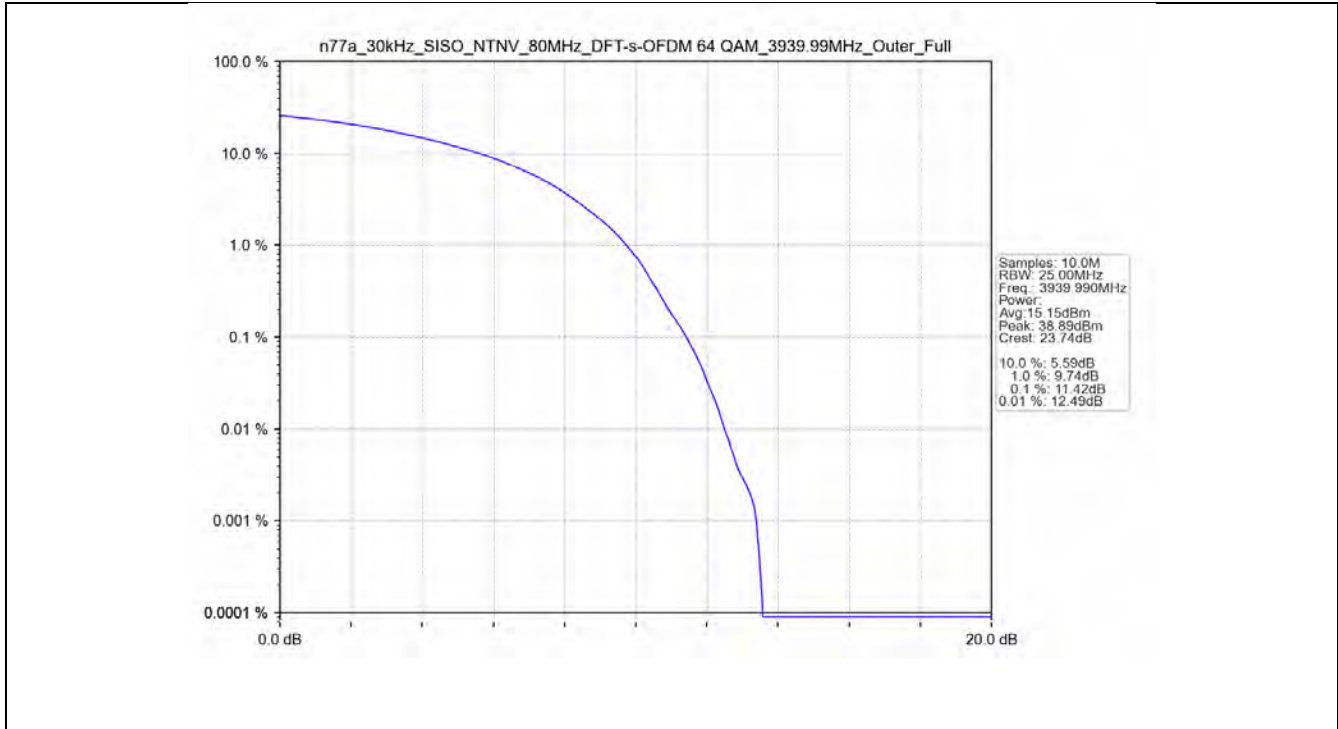


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Report No.: SZCR240100038409

Rev.: 01

Page: 341 of 973



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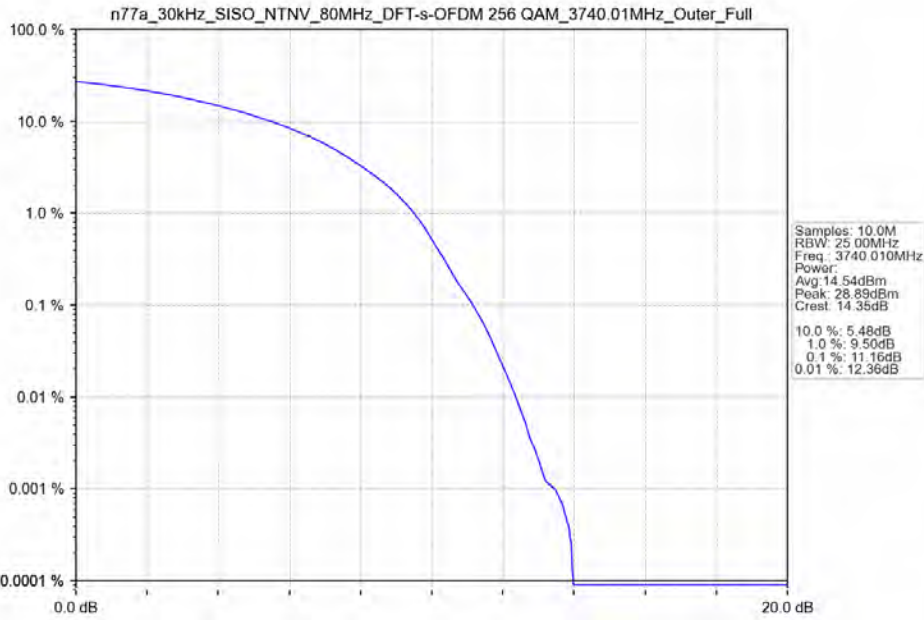
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Report No.: SZCR240100038409

Rev.: 01

Page: 342 of 973

n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 256 QAM\_3740.01MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



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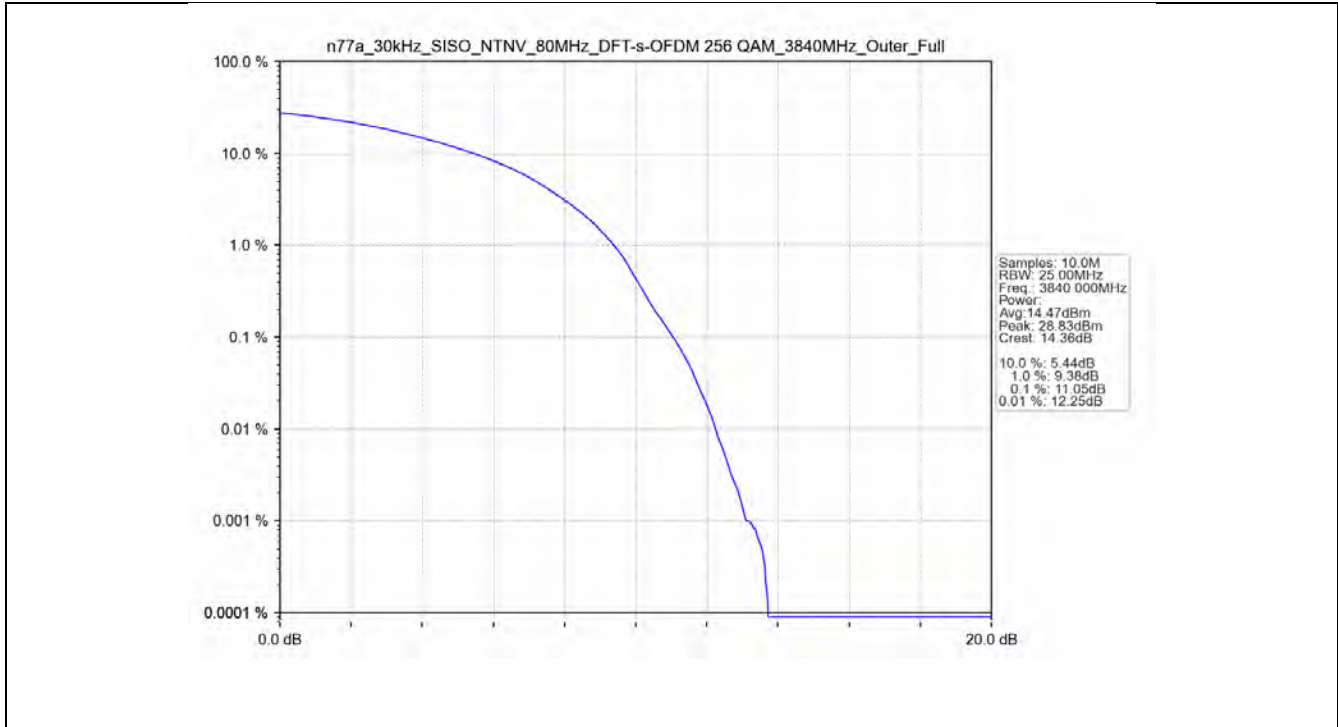


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Rev.: 01

Page: 343 of 973



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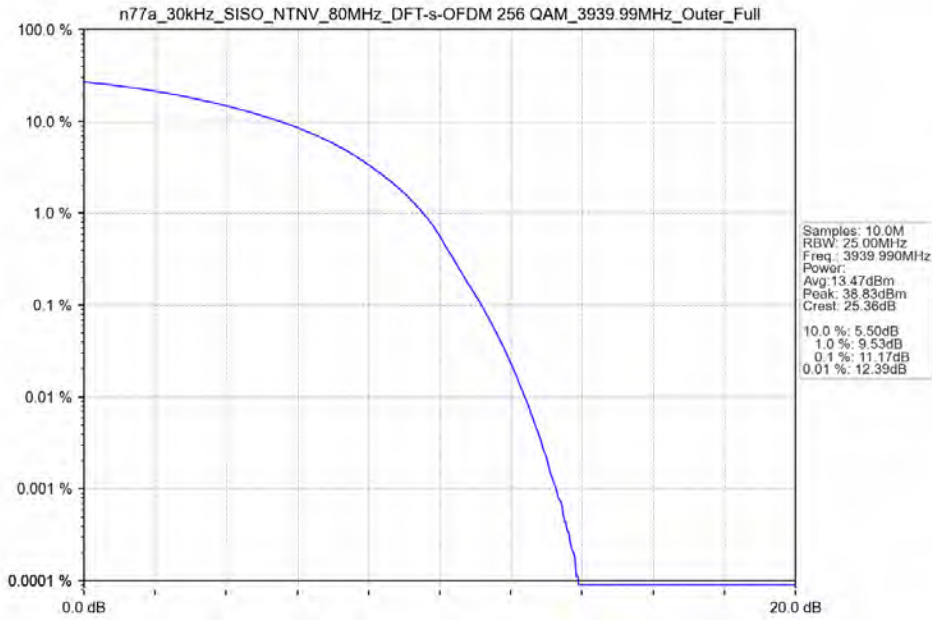
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Report No.: SZCR240100038409

Rev.: 01

Page: 344 of 973

n77a\_30kHz\_SISO\_NTNV\_80MHz\_DFT-s-OFDM 256 QAM\_3939.99MHz\_Outer\_Full



Samples: 10.0M  
RBW: 25.00MHz  
Freq.: 3939.990MHz  
Power:  
Avg: 13.47dBm  
Peak: 38.83dBm  
Crest: 25.36dB

n77a\_30kHz\_SISO\_NTNV\_80MHz\_CP-OFDM QPSK\_3740.01MHz\_Outer\_Full



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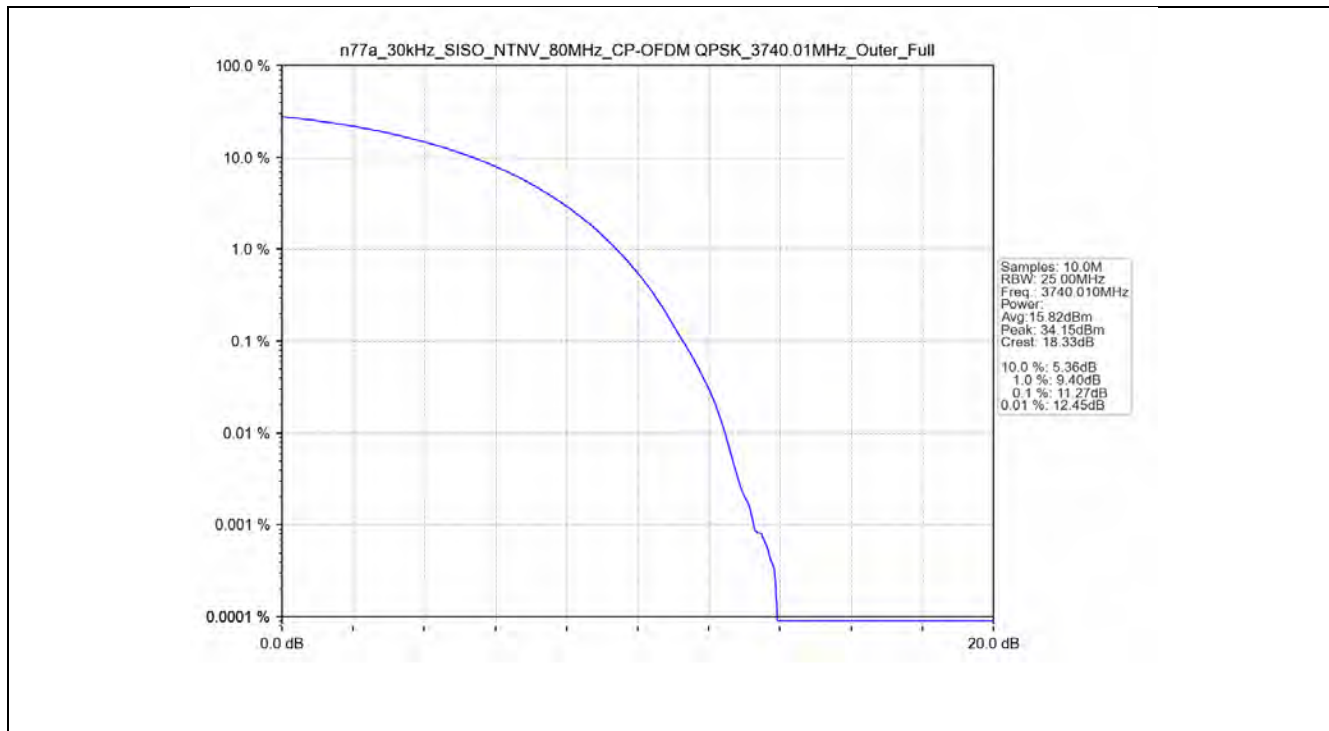
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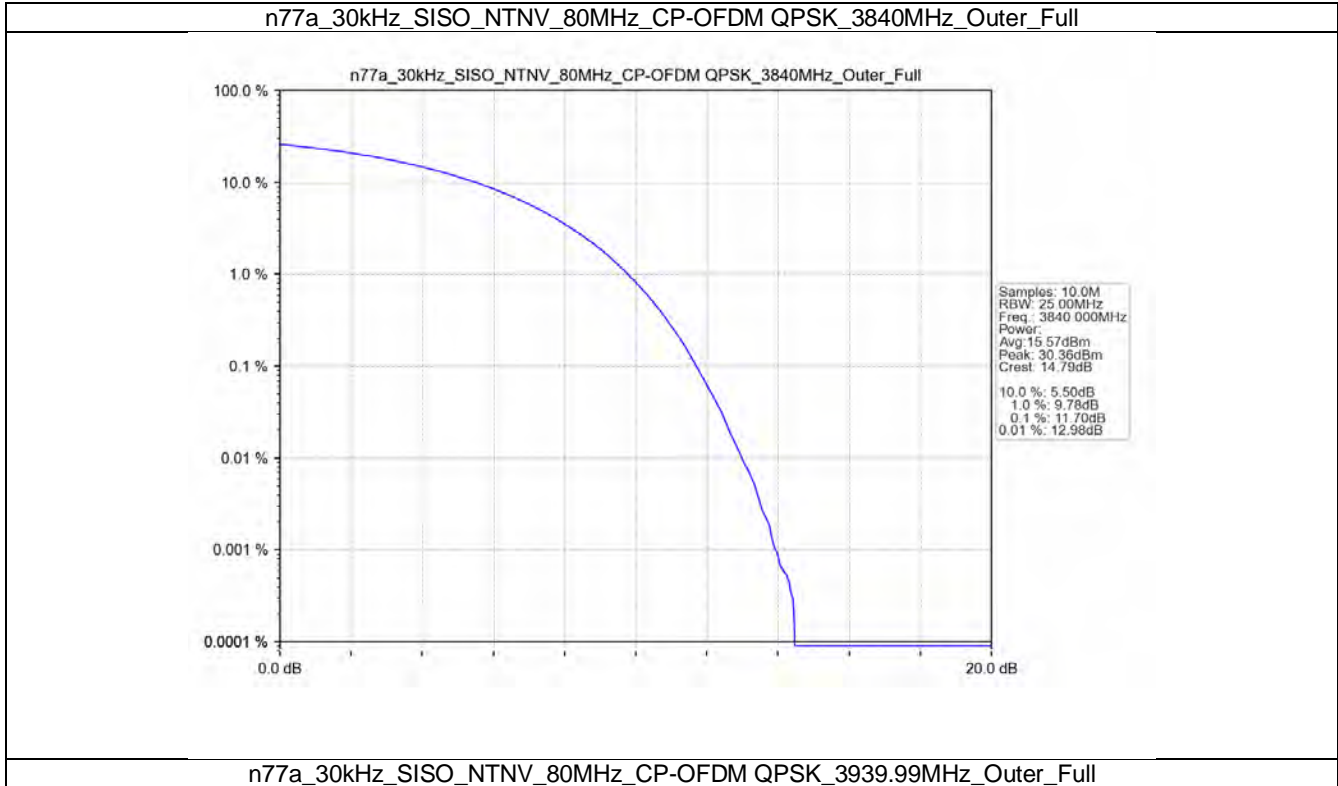


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Rev.: 01

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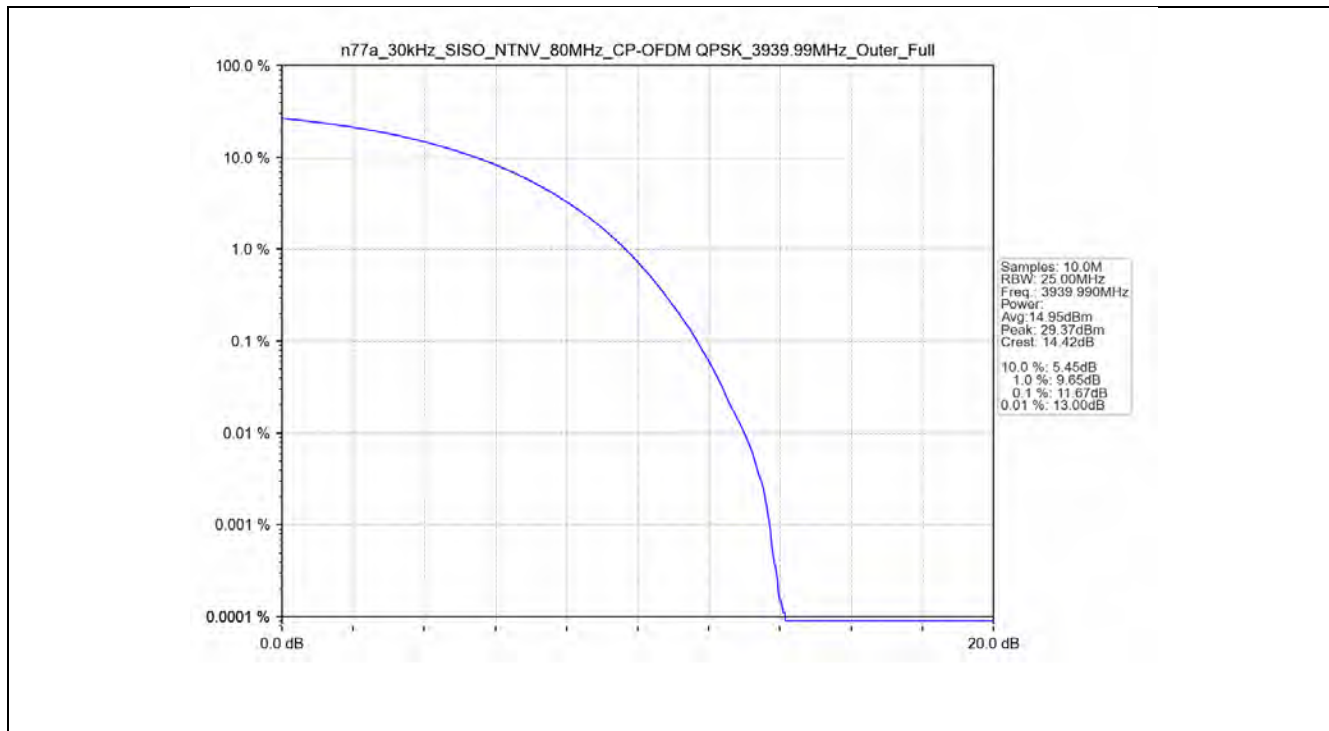
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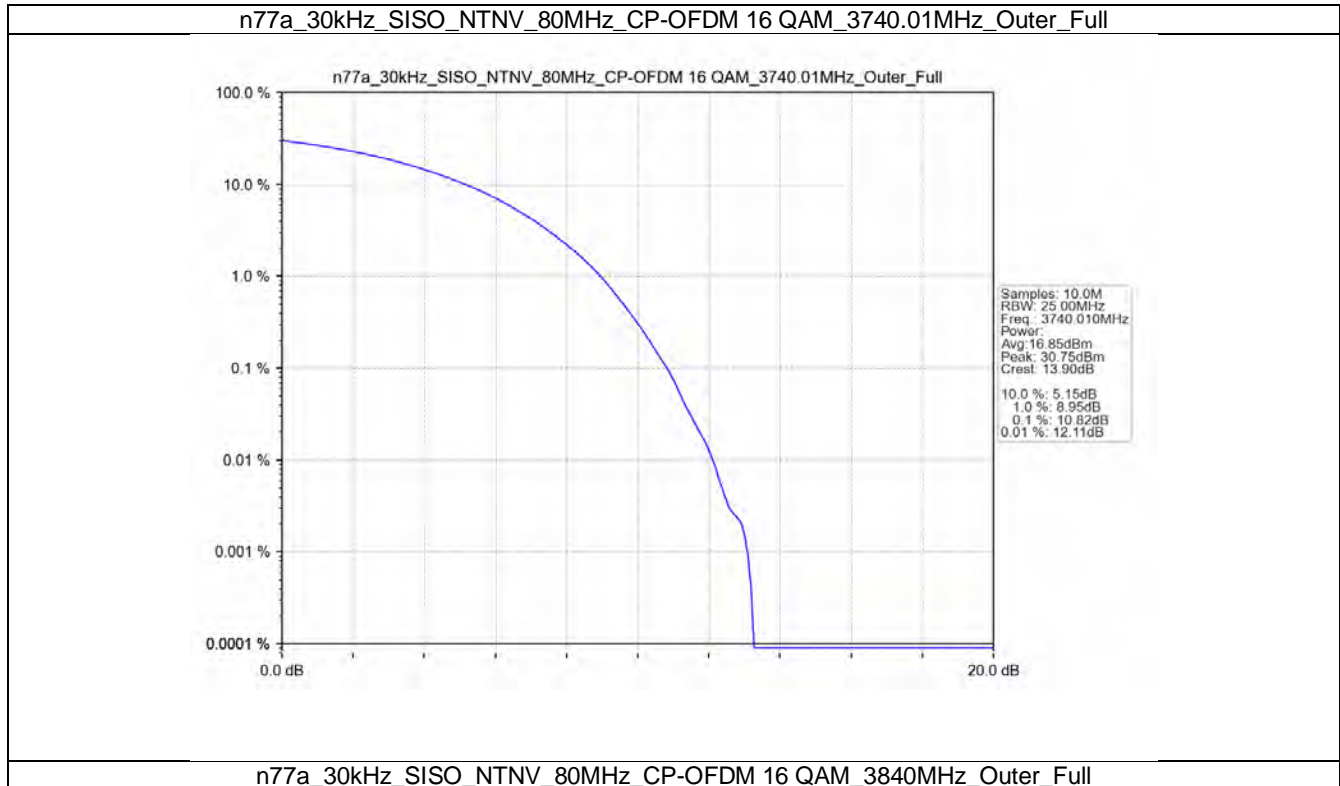


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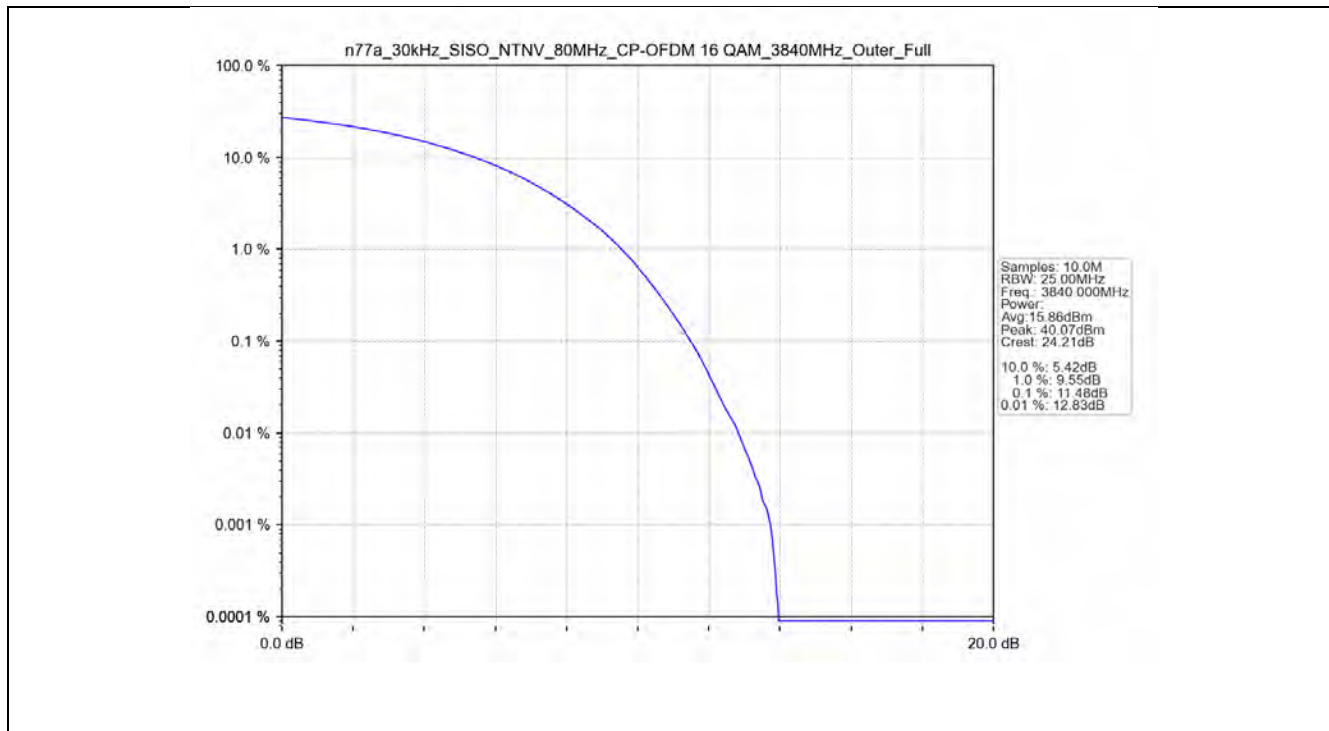
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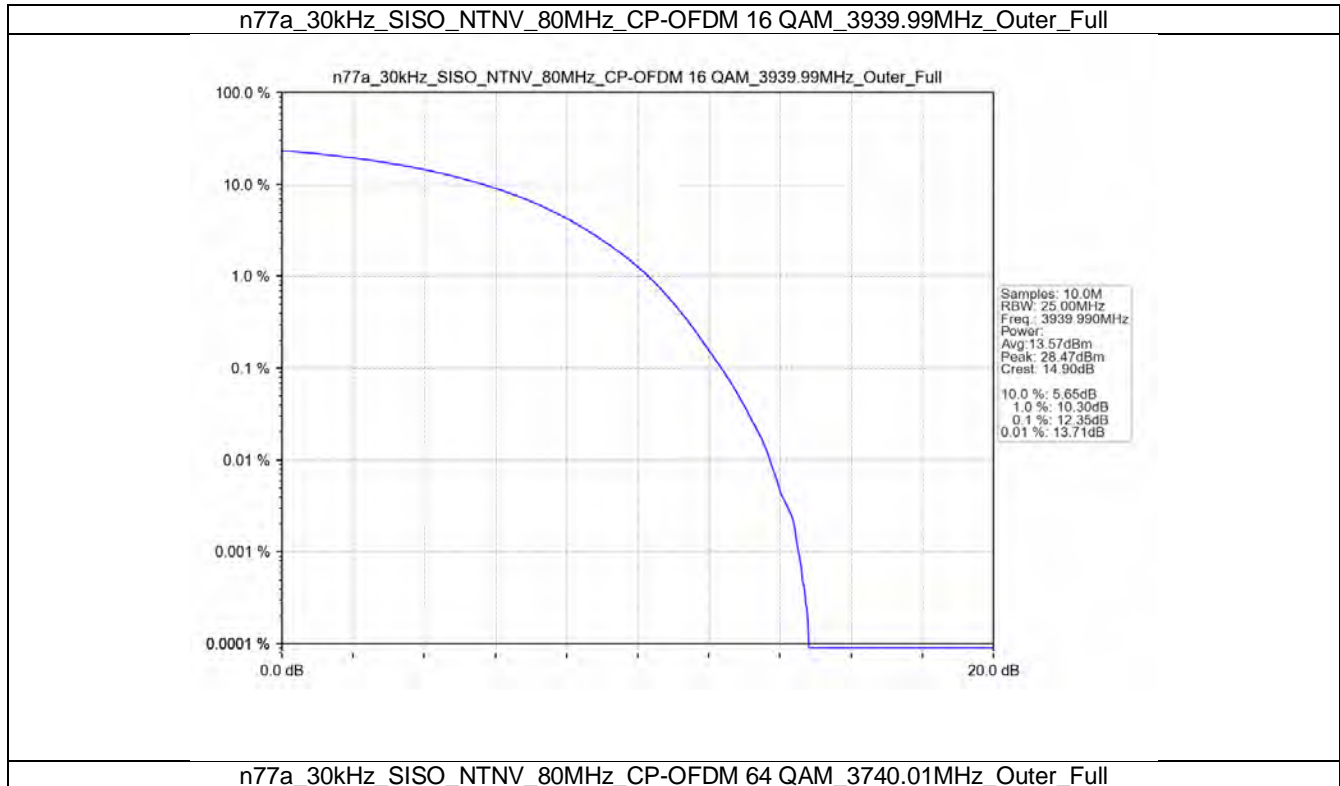


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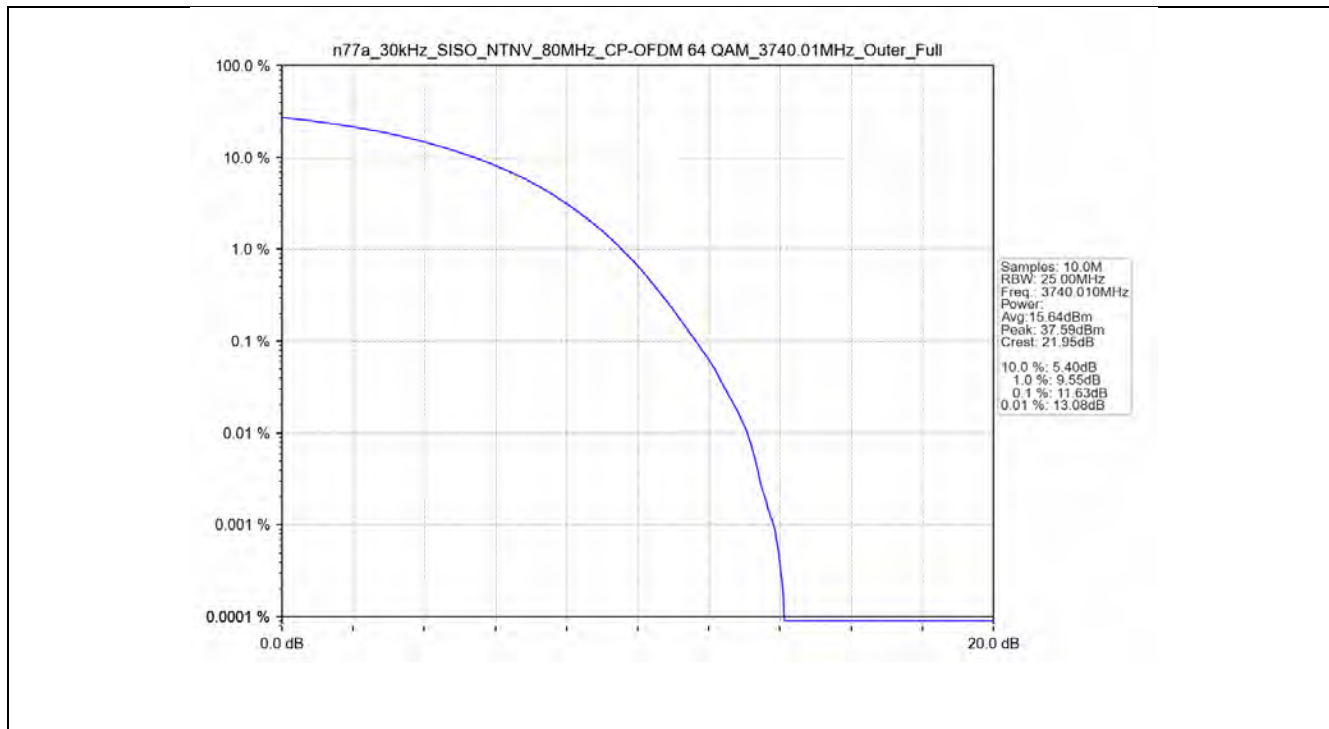
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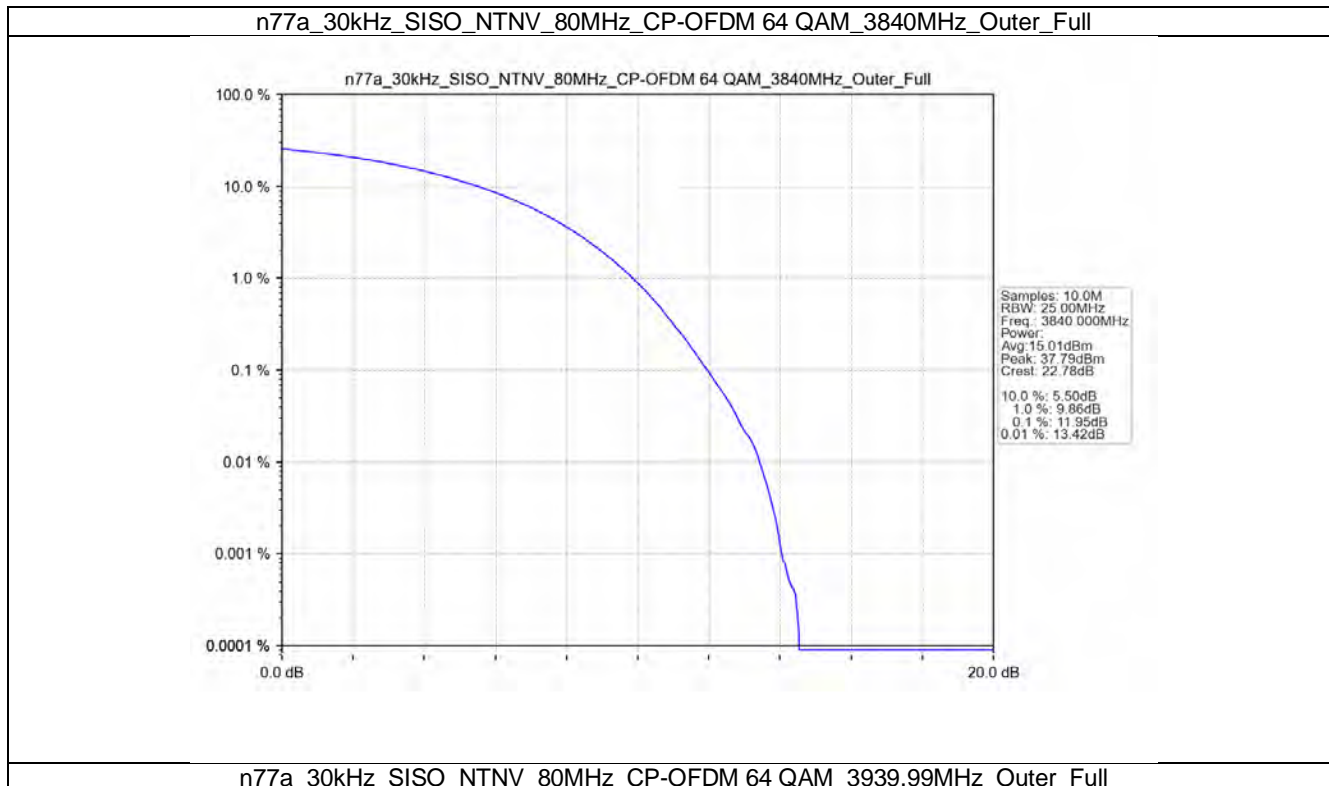
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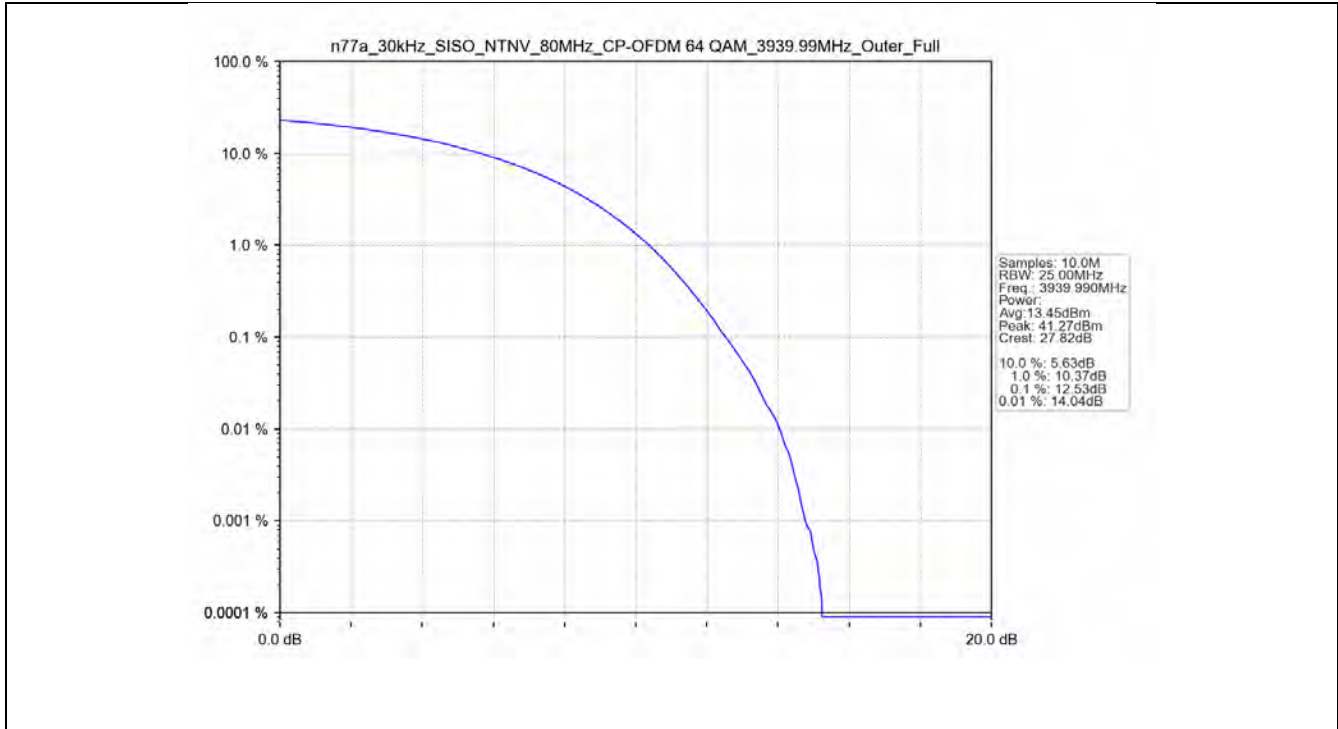


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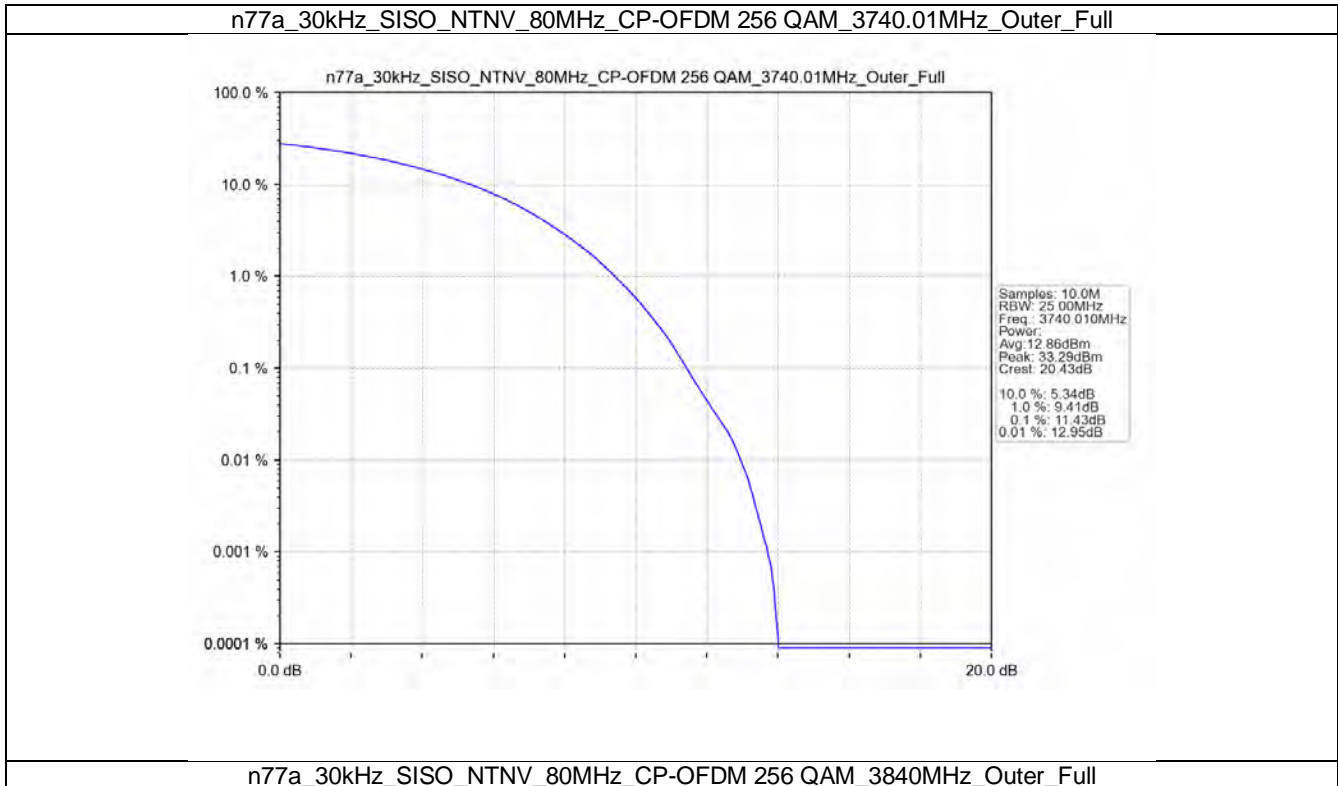


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Report No.: SZCR240100038409

Rev.: 01

Page: 354 of 973



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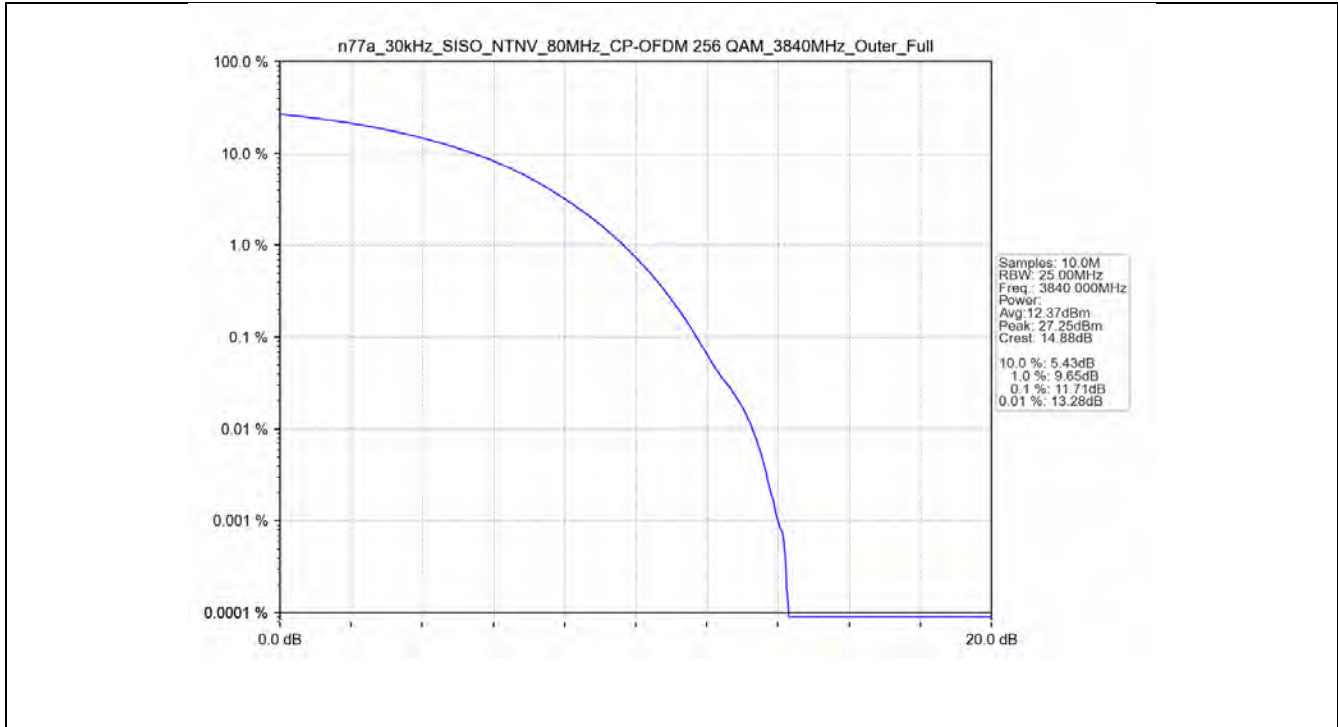


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Report No.: SZCR240100038409

Rev.: 01

Page: 355 of 973



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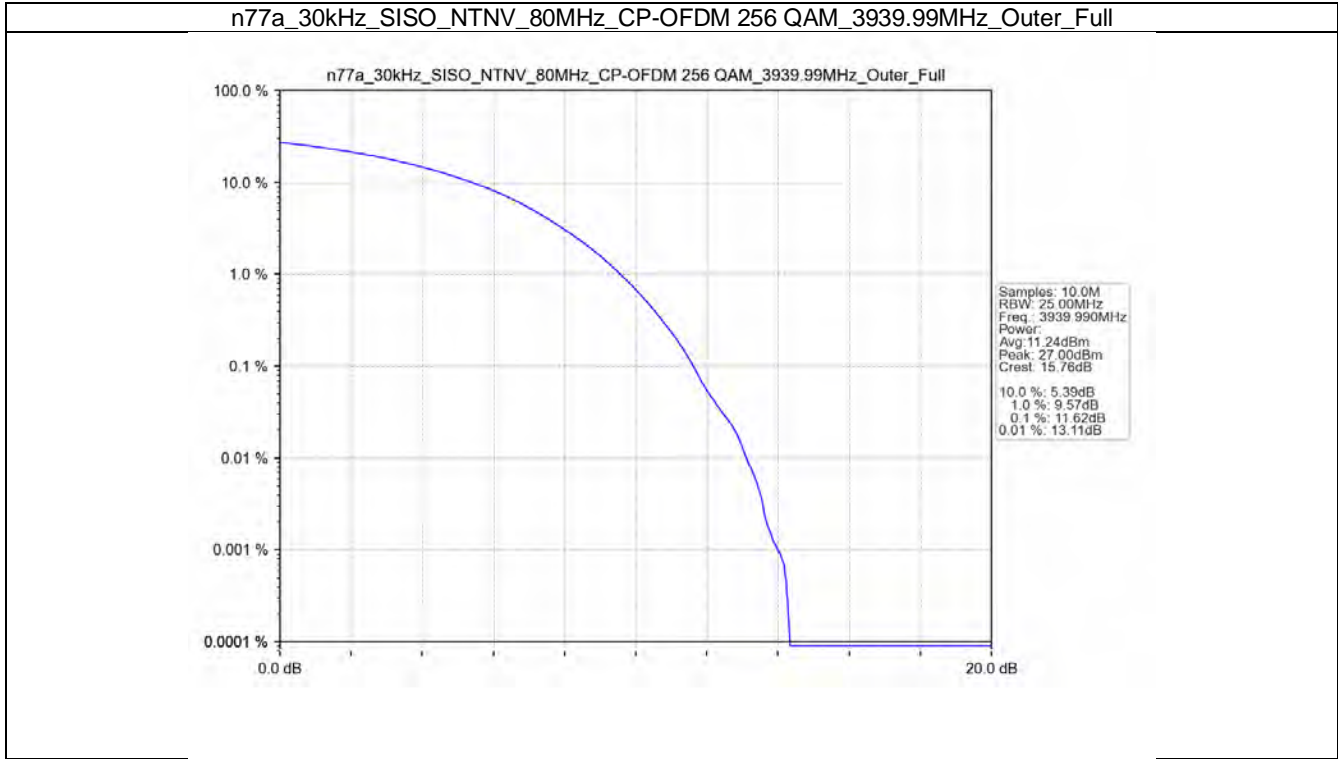


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Report No.: SZCR240100038409

Rev.: 01

Page: 356 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 357 of 973

## 4.6 30k\_SISO\_100MHz\_NTNV

### 4.6.1 Test Result

5G NR n77a SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	10.42	/	/	<=13	Pass
	3840	Outer_Full	10.00	/	/	<=13	Pass
	3930	Outer_Full	10.12	/	/	<=13	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	10.96	/	/	<=13	Pass
	3840	Outer_Full	10.77	/	/	<=13	Pass
	3930	Outer_Full	10.51	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	11.88	/	/	<=13	Pass
	3840	Outer_Full	11.17	/	/	<=13	Pass
	3930	Outer_Full	11.10	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	10.64	/	/	<=13	Pass
	3840	Outer_Full	11.45	/	/	<=13	Pass
	3930	Outer_Full	12.99	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	11.11	/	/	<=13	Pass
	3840	Outer_Full	11.99	/	/	<=13	Pass
	3930	Outer_Full	12.38	/	/	<=13	Pass
CP-OFDM QPSK	3750	Outer_Full	11.43	/	/	<=13	Pass
	3840	Outer_Full	11.98	/	/	<=13	Pass
	3930	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 16 QAM	3750	Outer_Full	11.60	/	/	<=13	Pass
	3840	Outer_Full	11.65	/	/	<=13	Pass
	3930	Outer_Full	11.48	/	/	<=13	Pass
CP-OFDM 64 QAM	3750	Outer_Full	12.16	/	/	<=13	Pass
	3840	Outer_Full	12.33	/	/	<=13	Pass
	3930	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 256 QAM	3750	Outer_Full	11.89	/	/	<=13	Pass
	3840	Outer_Full	12.28	/	/	<=13	Pass
	3930	Outer_Full	12.73	/	/	<=13	Pass



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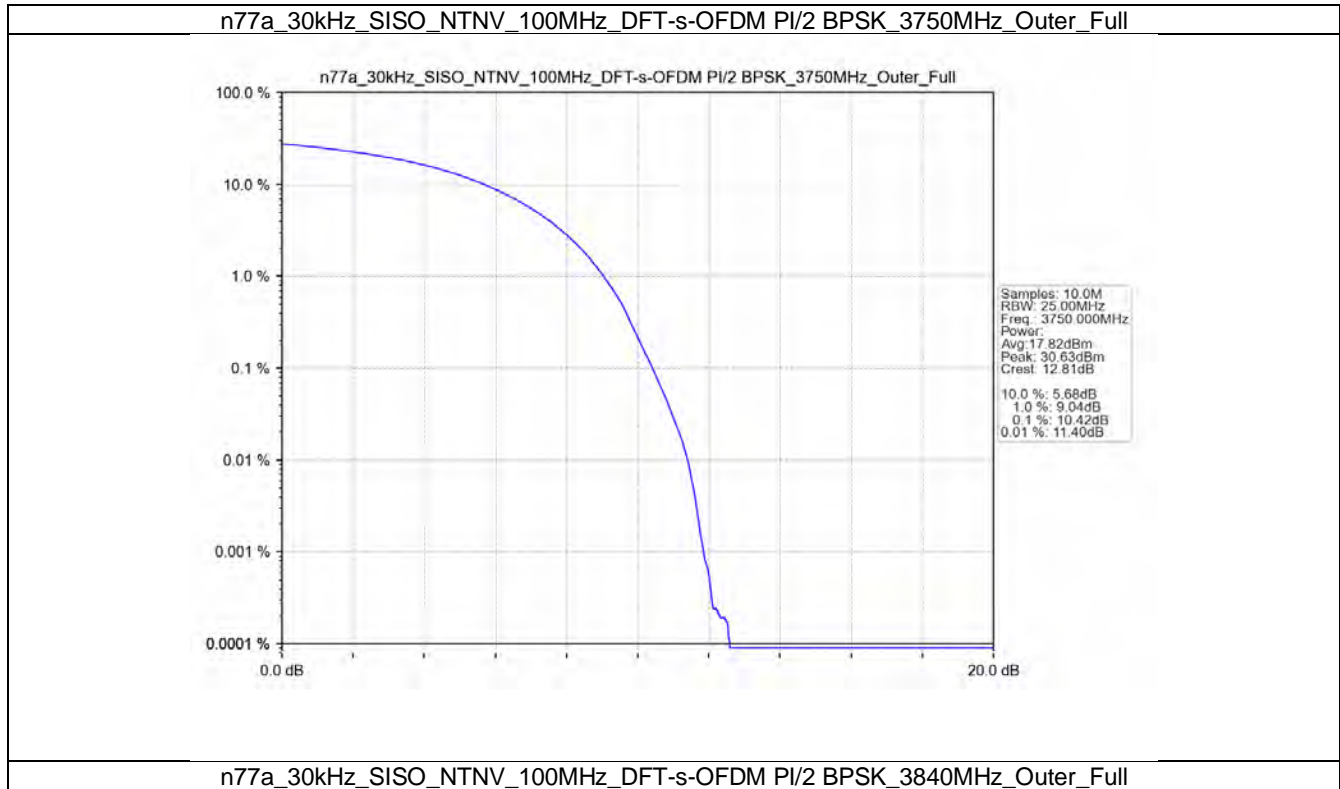
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Report No.: SZCR240100038409

Rev.: 01

Page: 358 of 973

4.6.2 Test Graph



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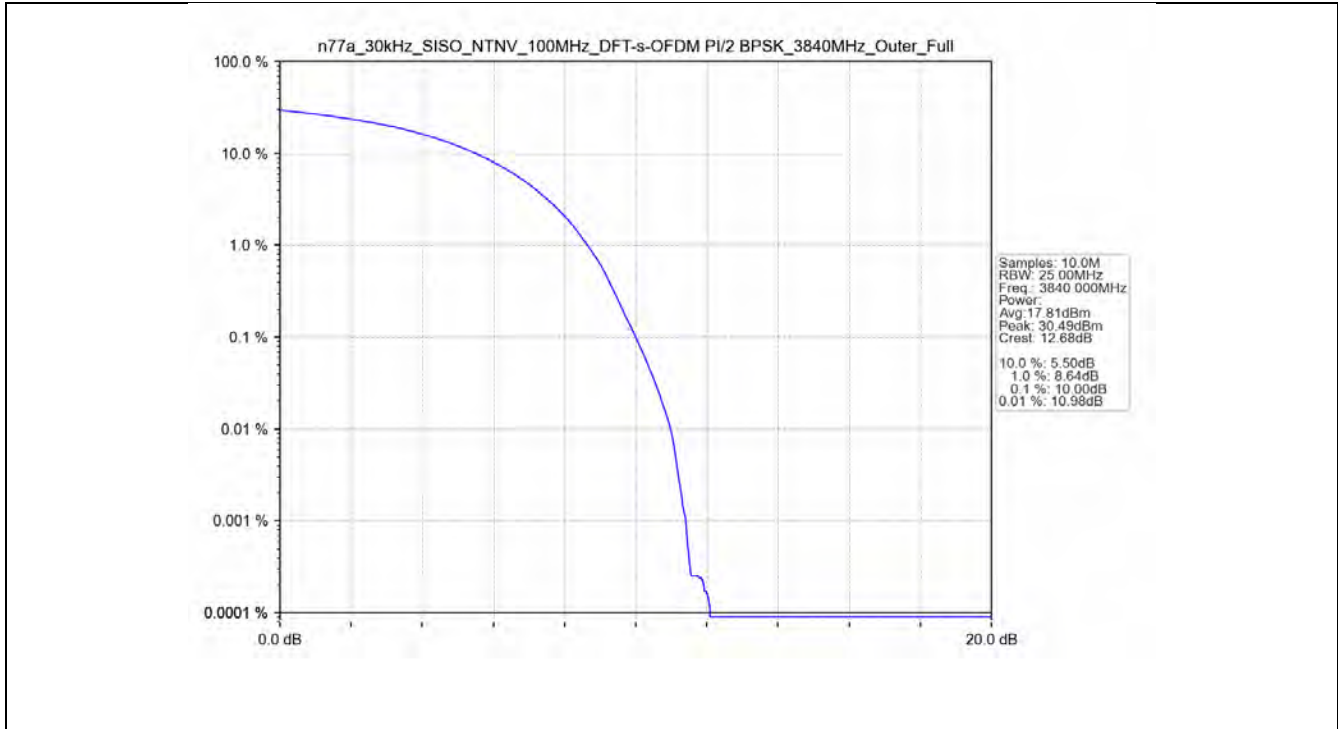


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Report No.: SZCR240100038409

Rev.: 01

Page: 359 of 973



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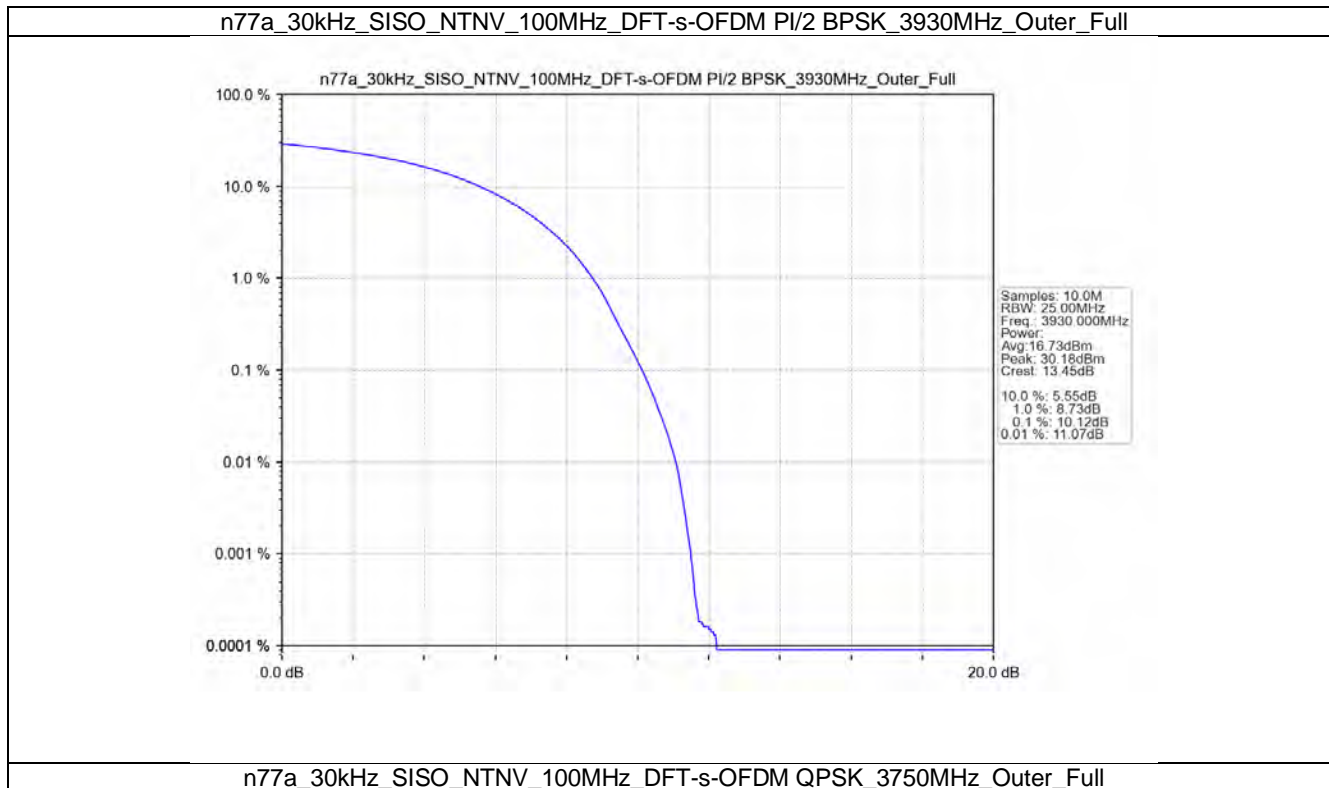
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Rev.: 01  
Page: 360 of 973



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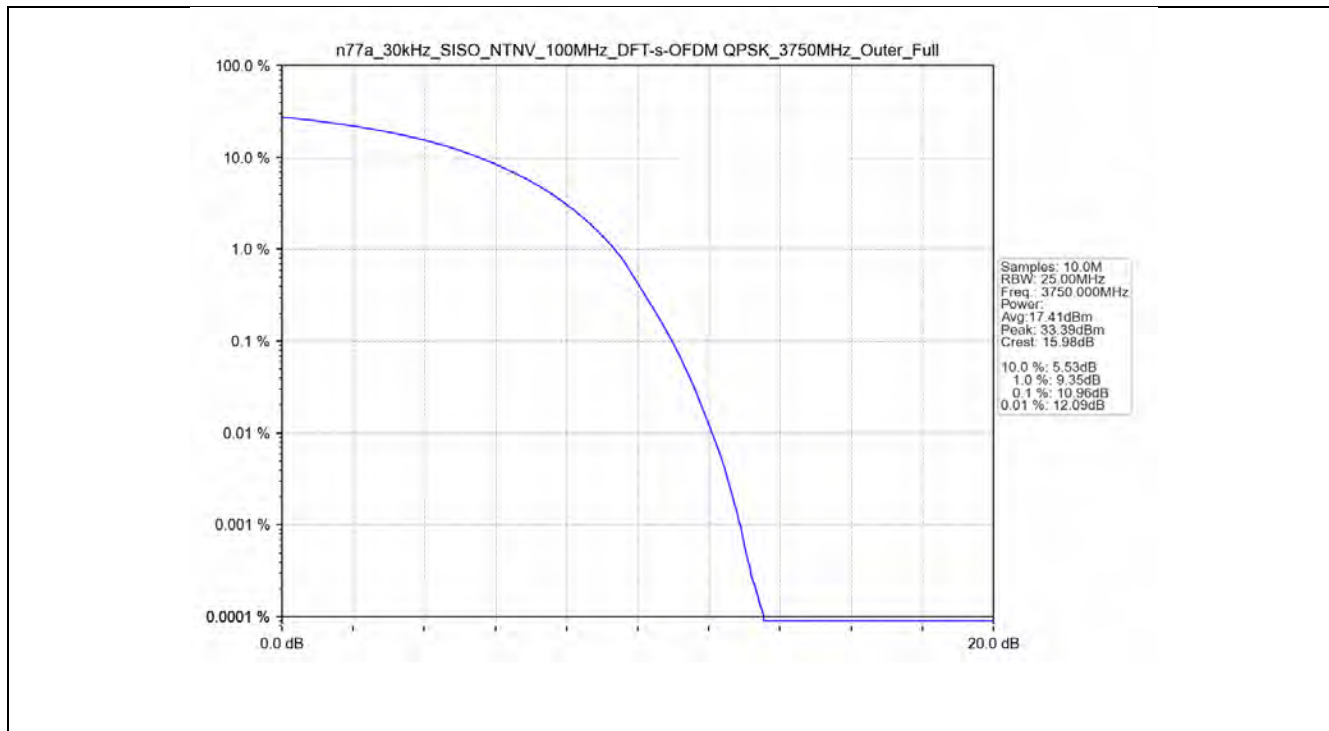
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 Page: 361 of 973



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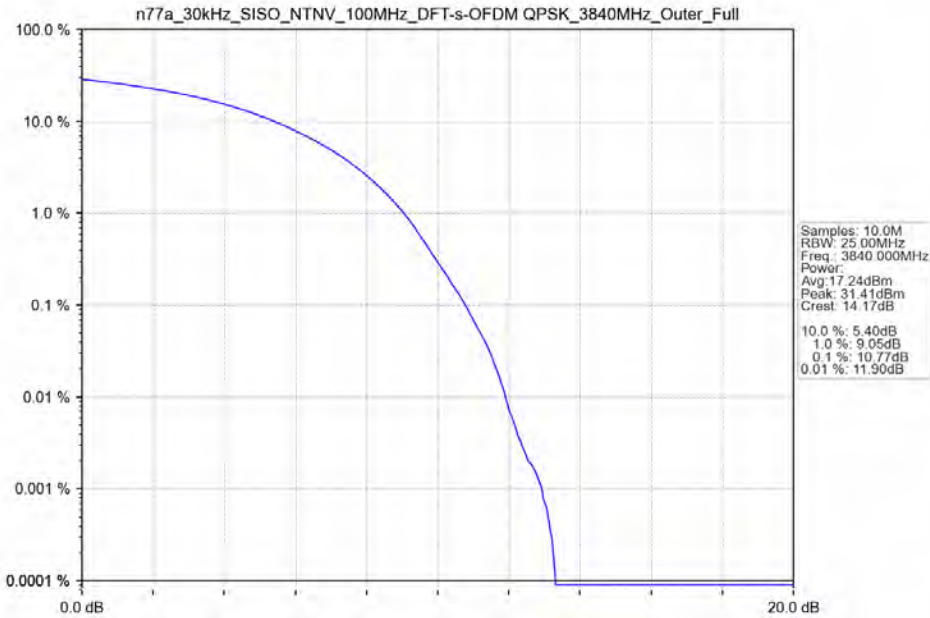
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Report No.: SZCR240100038409

Rev.: 01

Page: 362 of 973

n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_100MHz\_DFT-s-OFDM QPSK\_3930MHz\_Outer\_Full



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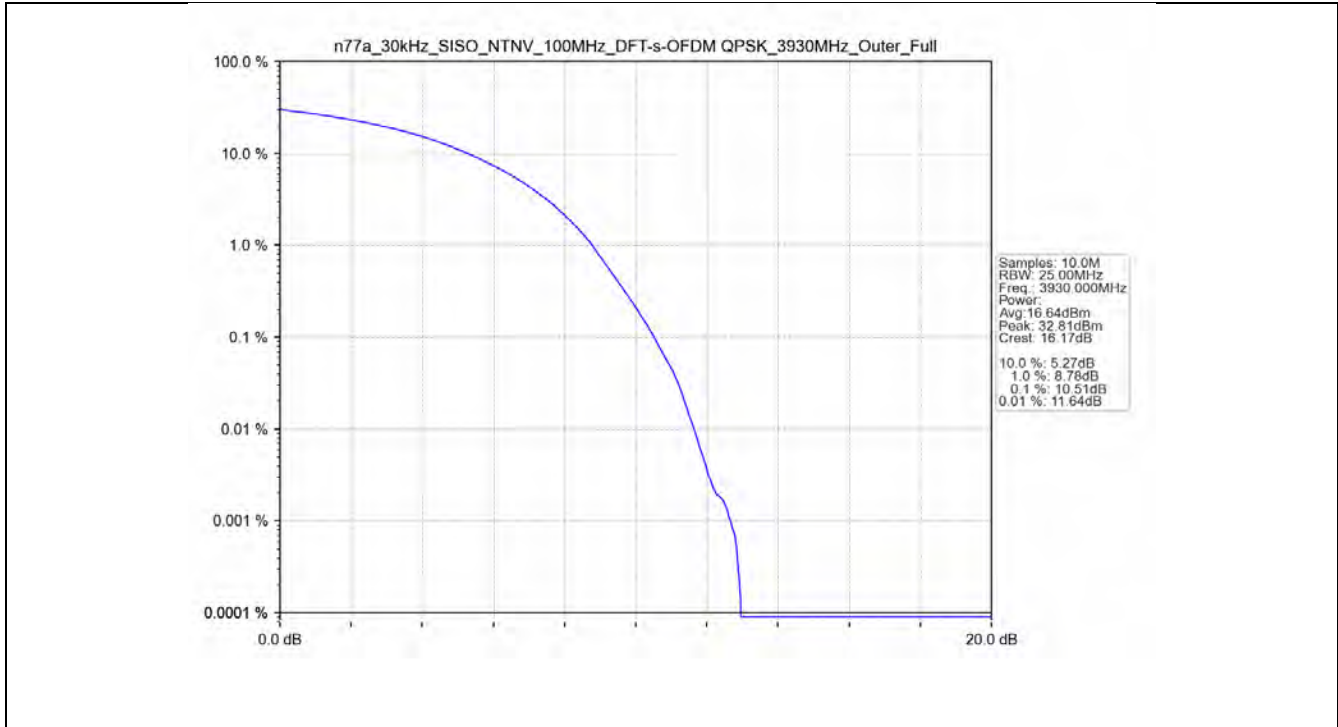


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Rev.: 01

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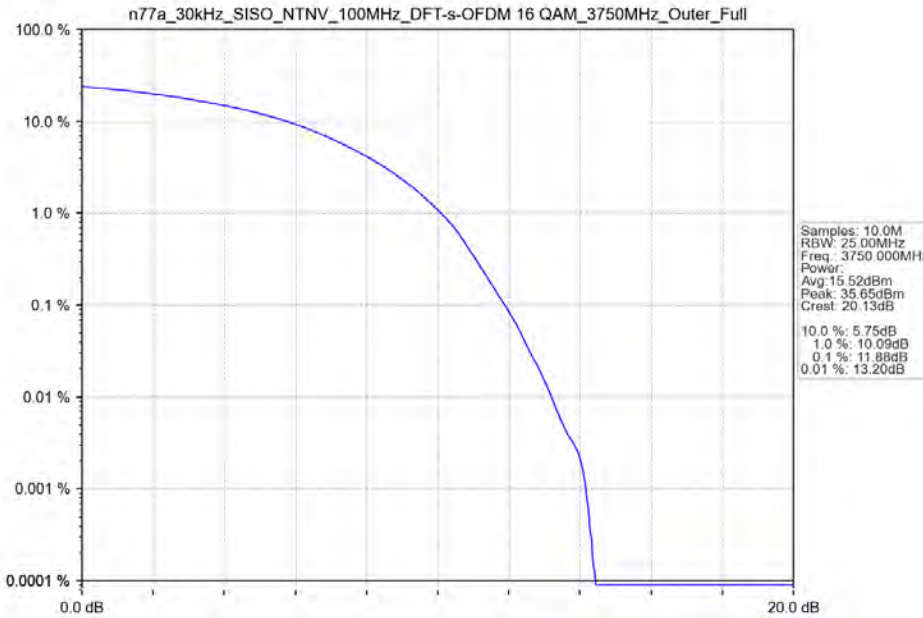
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Report No.: SZCR240100038409

Rev.: 01

Page: 364 of 973

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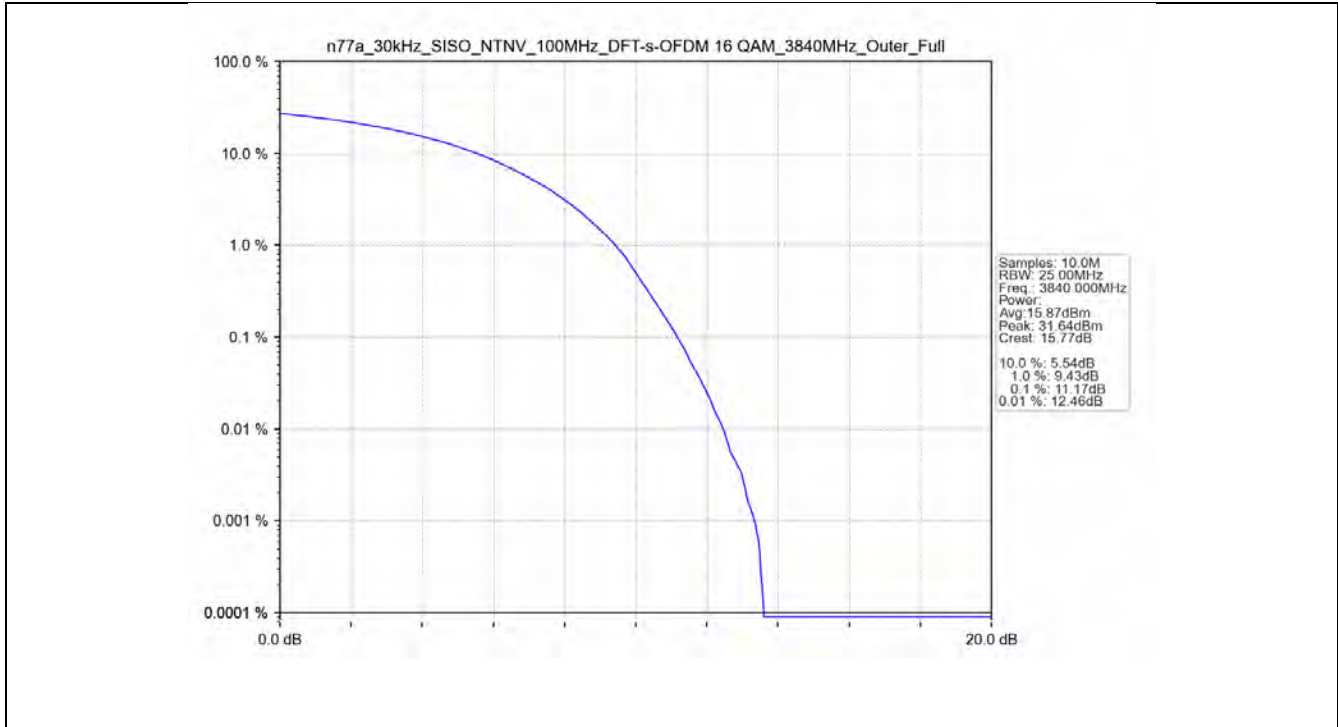


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Rev.: 01

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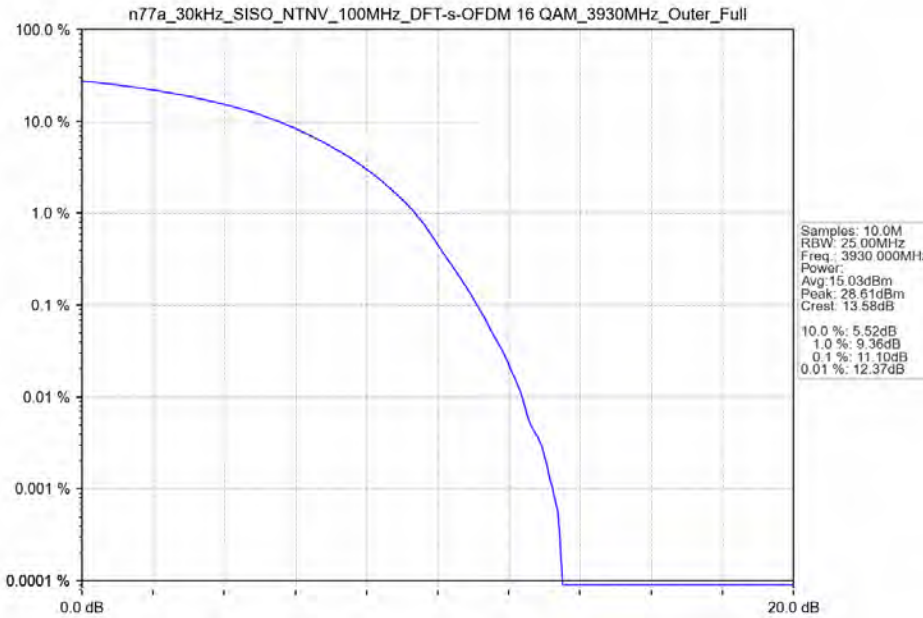
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Report No.: SZCR240100038409

Rev.: 01

Page: 366 of 973

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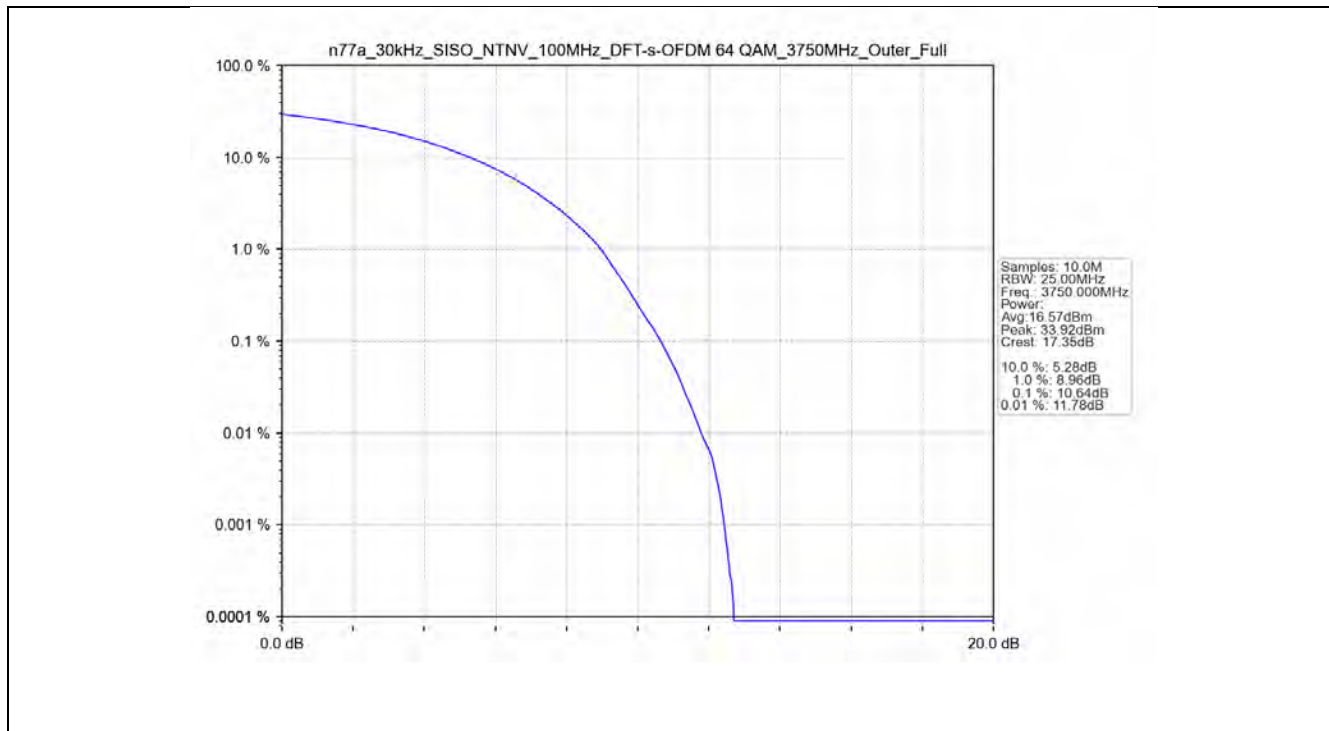
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 367 of 973



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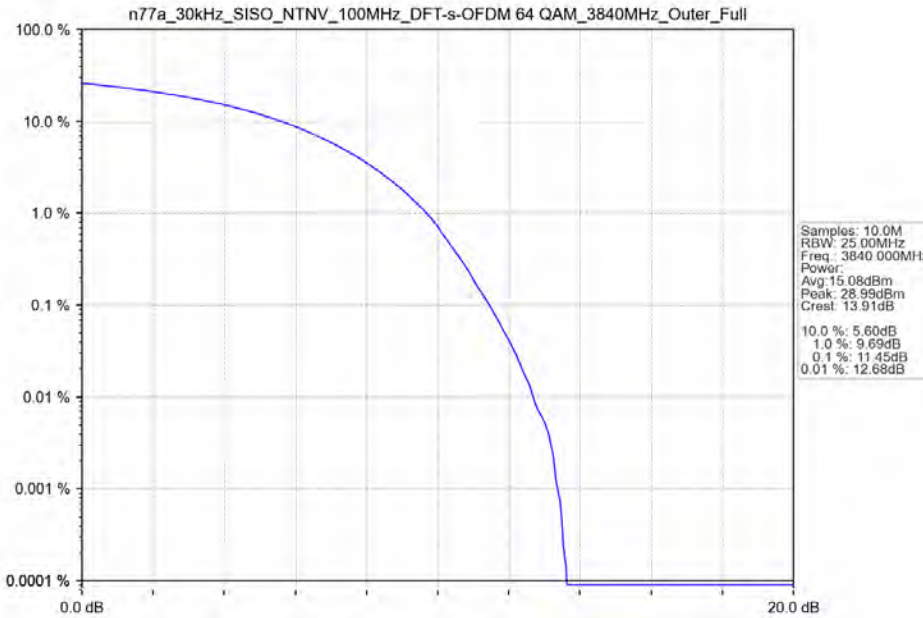
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Report No.: SZCR240100038409

Rev.: 01

Page: 368 of 973

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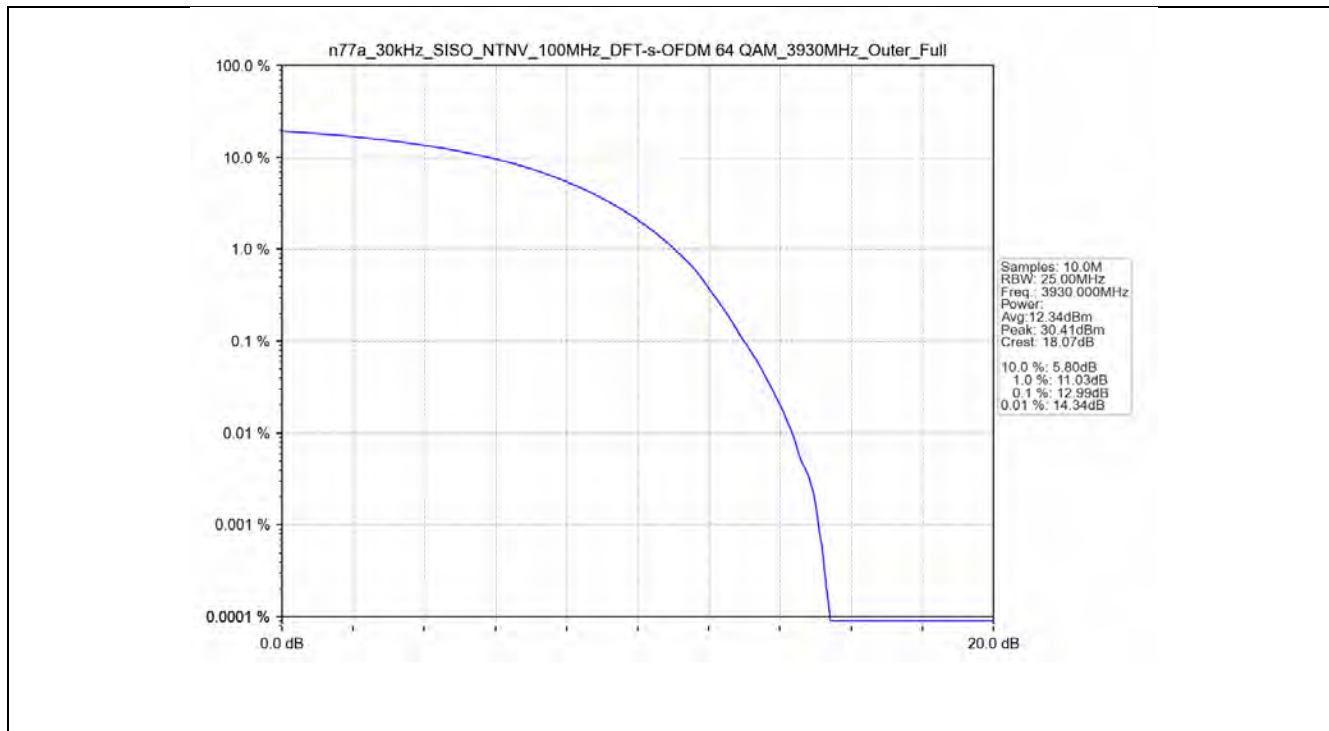
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 369 of 973



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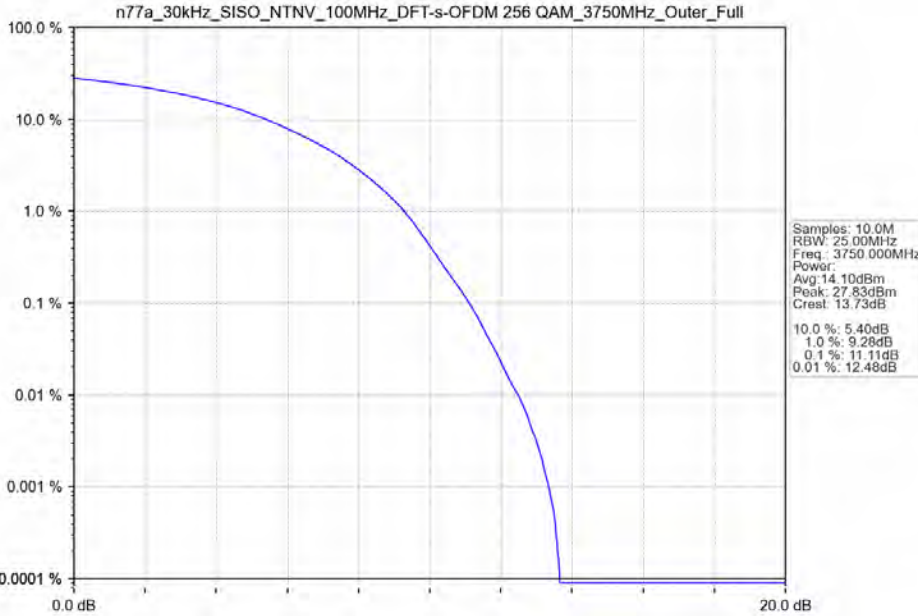
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Report No.: SZCR240100038409

Rev.: 01

Page: 370 of 973

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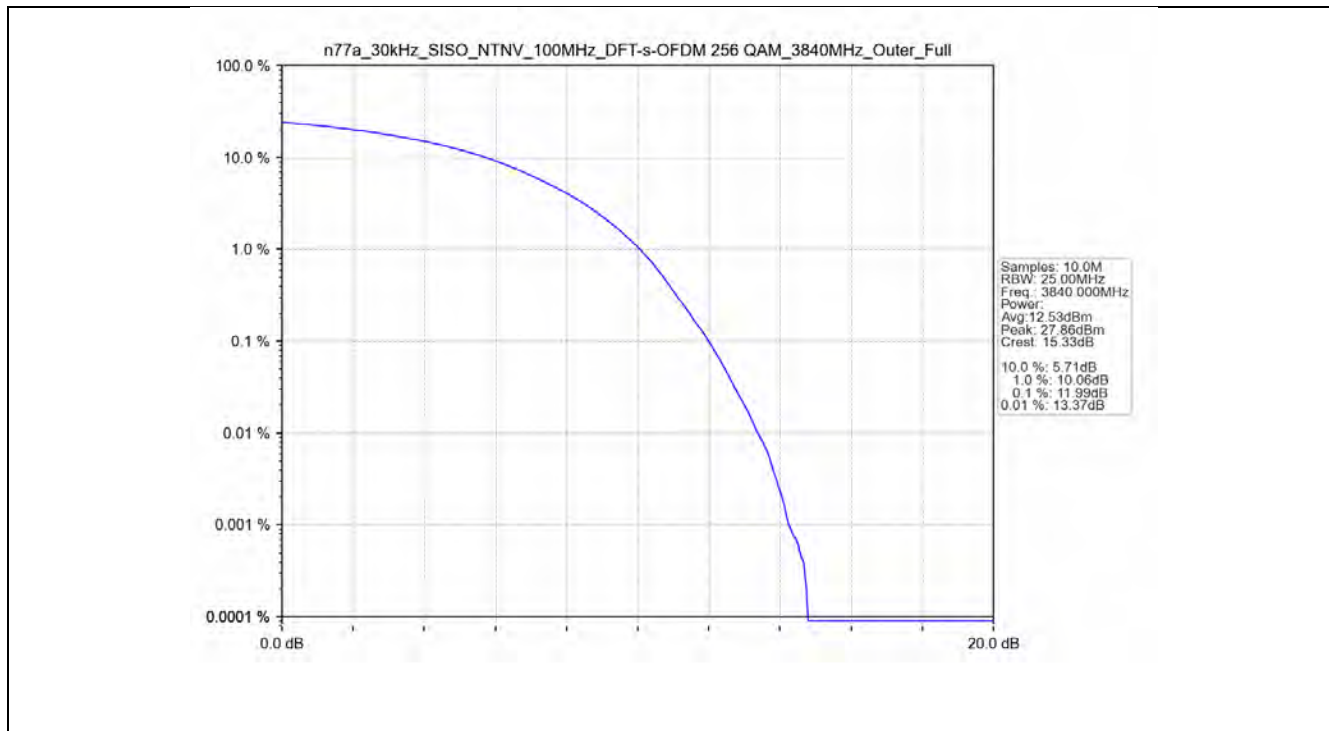
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 371 of 973



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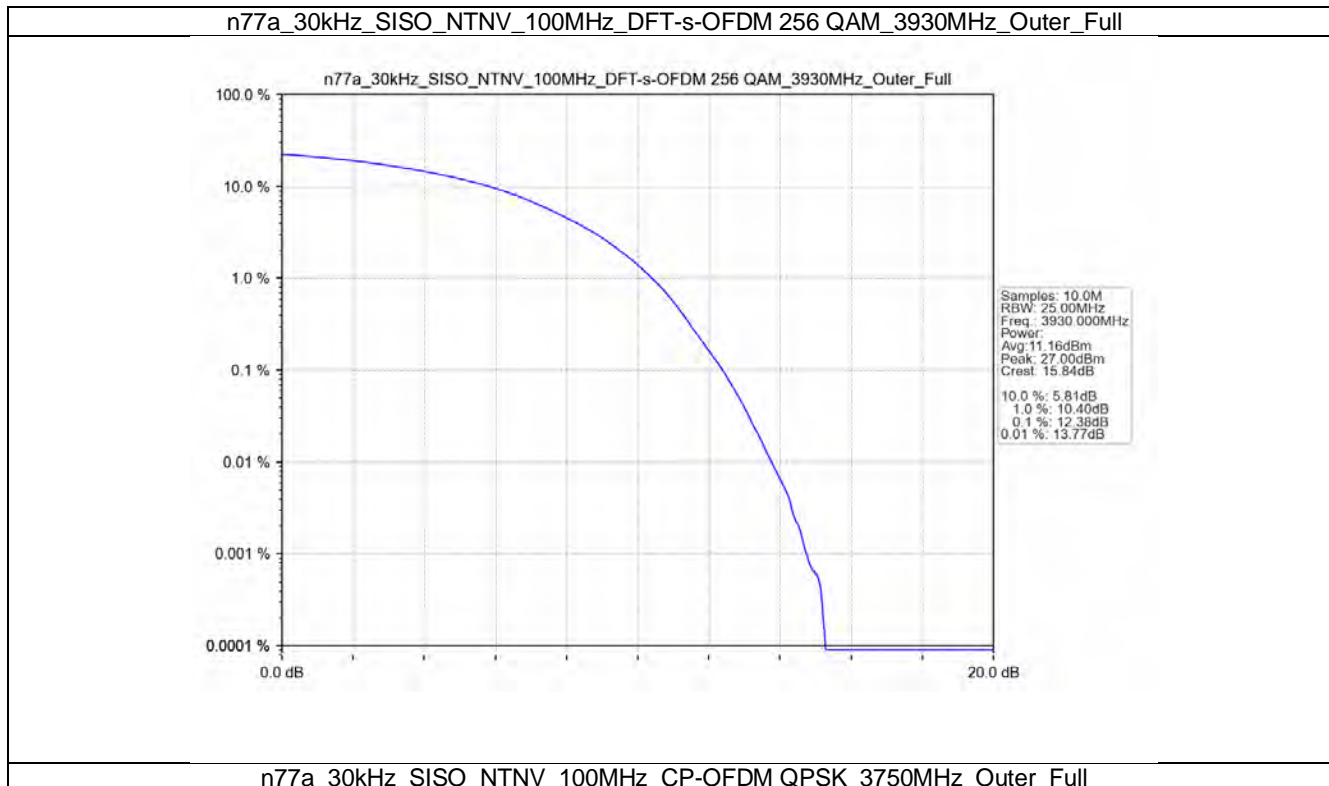
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Rev.: 01  
Page: 372 of 973



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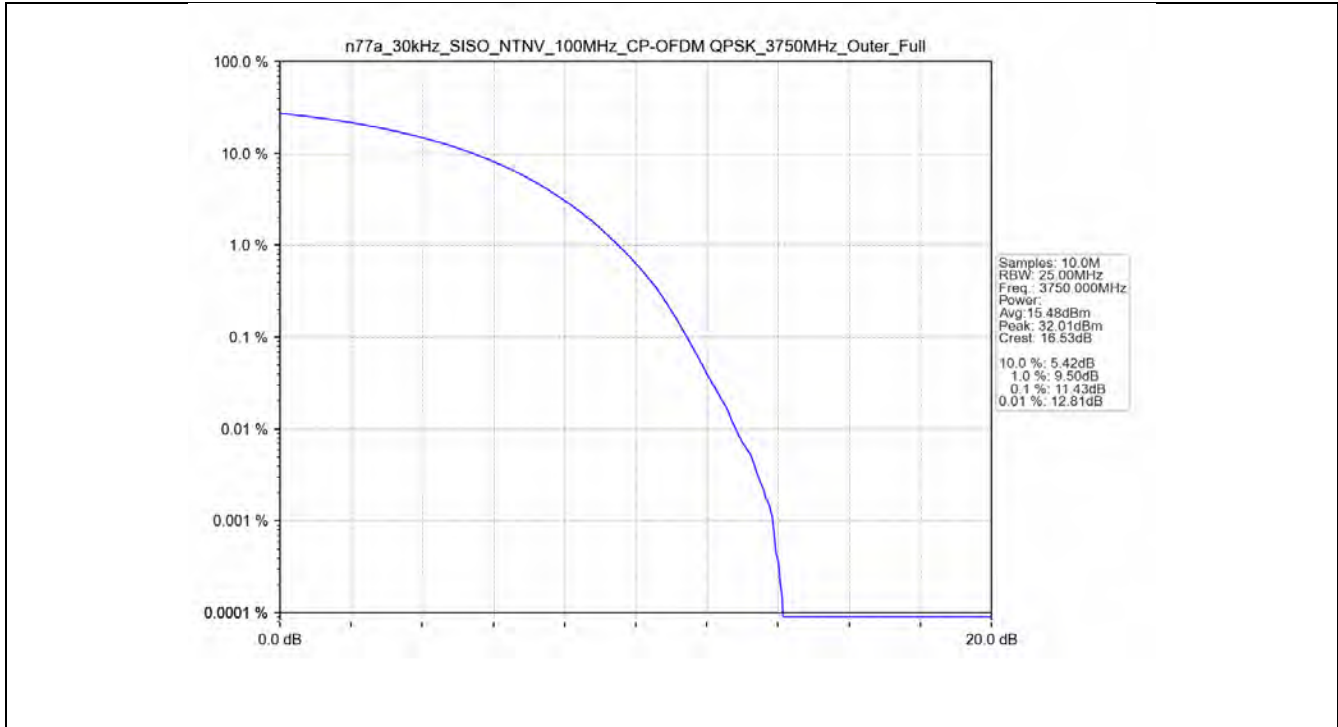


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Report No.: SZCR240100038409

Rev.: 01

Page: 373 of 973



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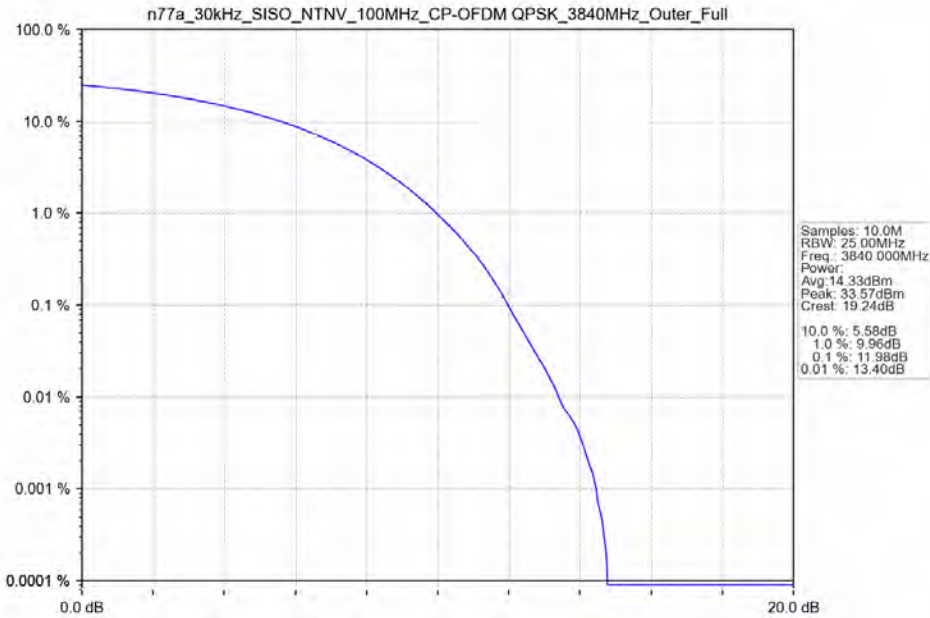
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Report No.: SZCR240100038409

Rev.: 01

Page: 374 of 973

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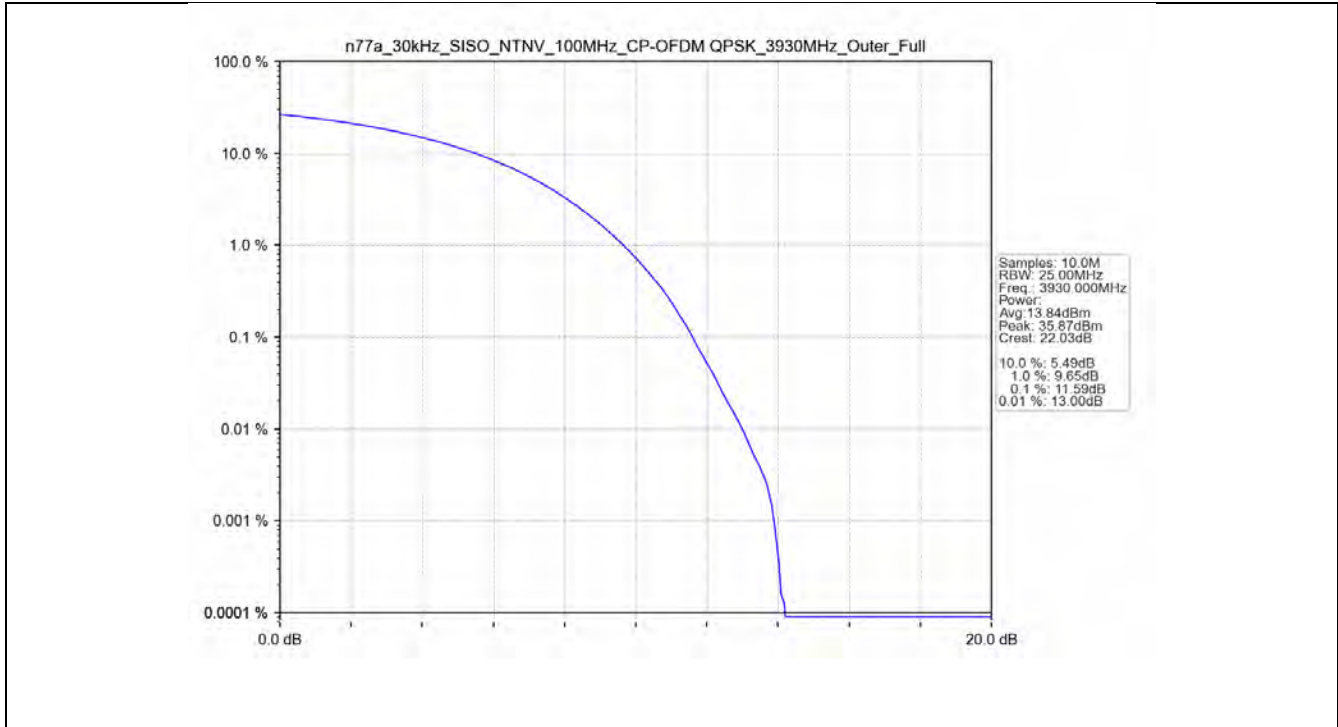


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Page: 375 of 973



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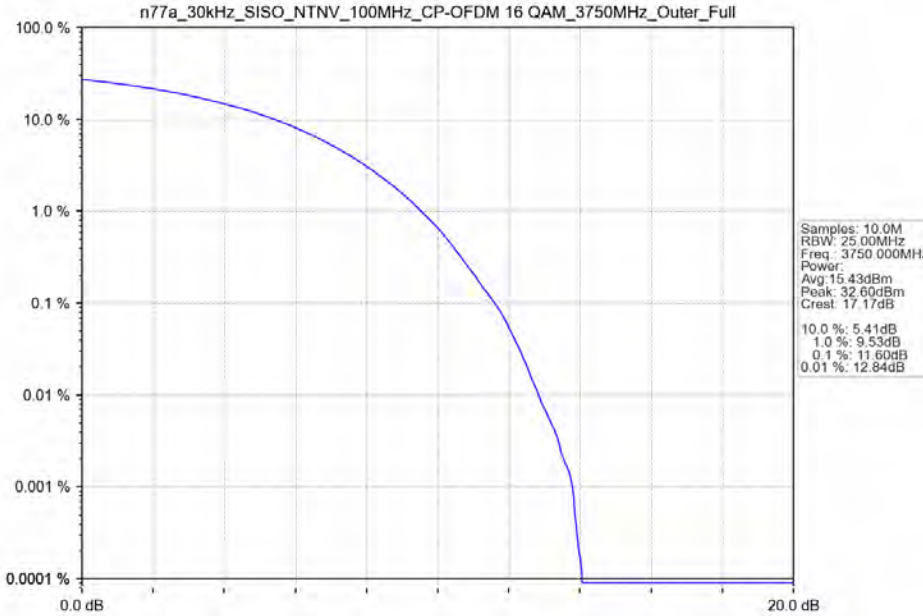
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Report No.: SZCR240100038409

Rev.: 01

Page: 376 of 973

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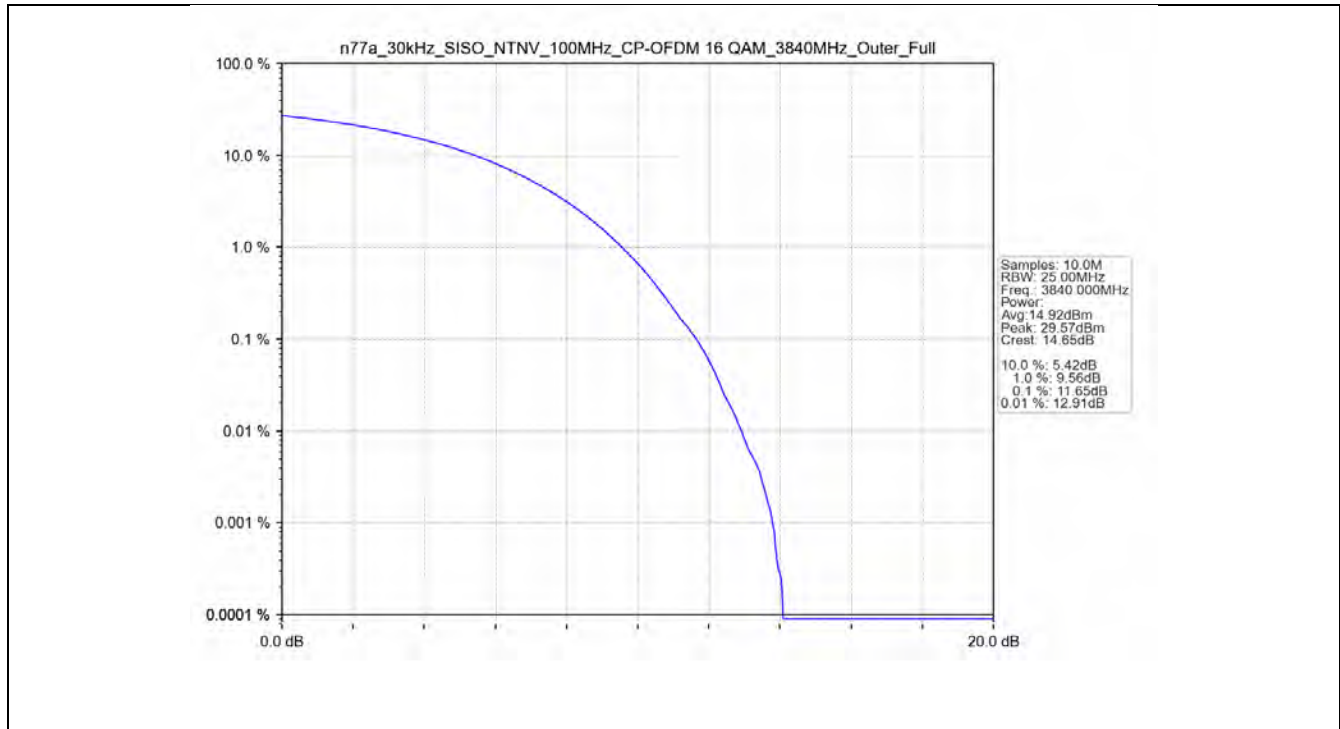


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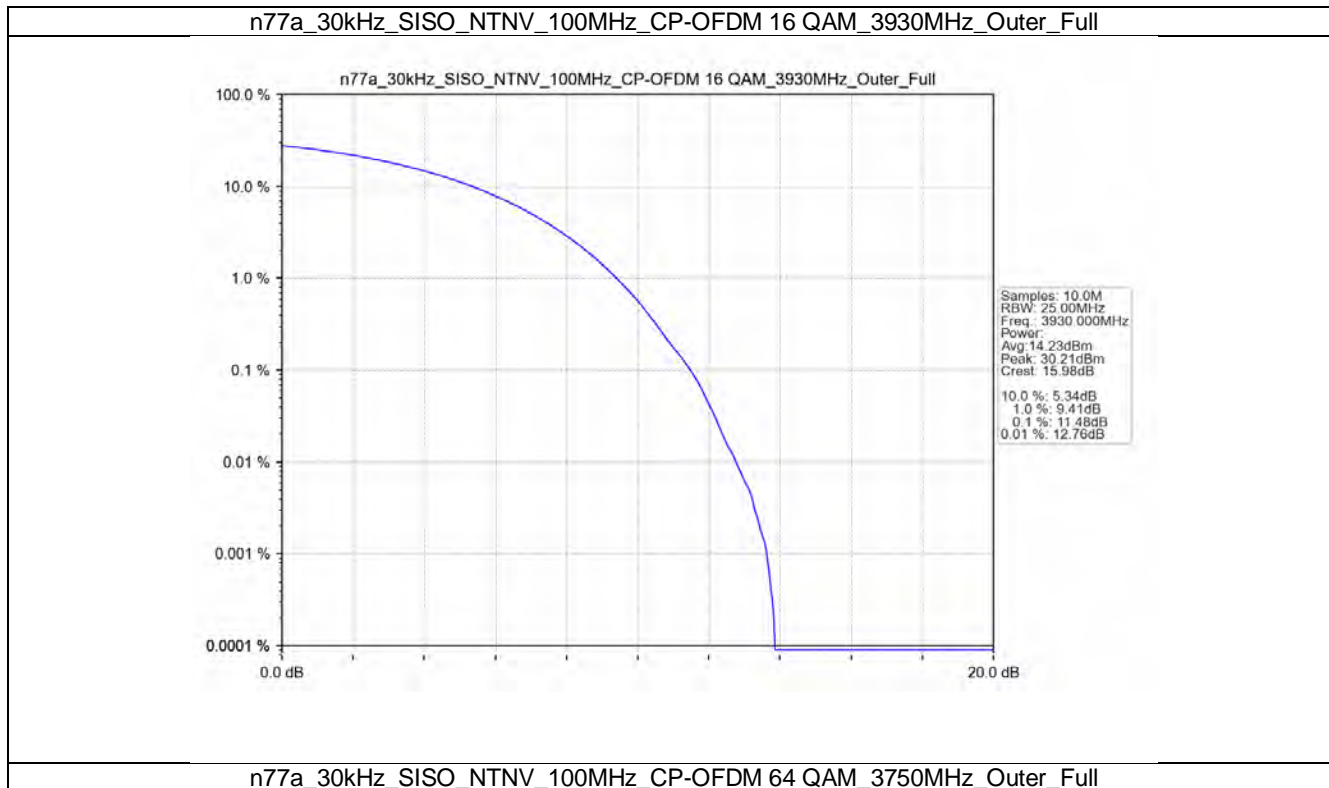
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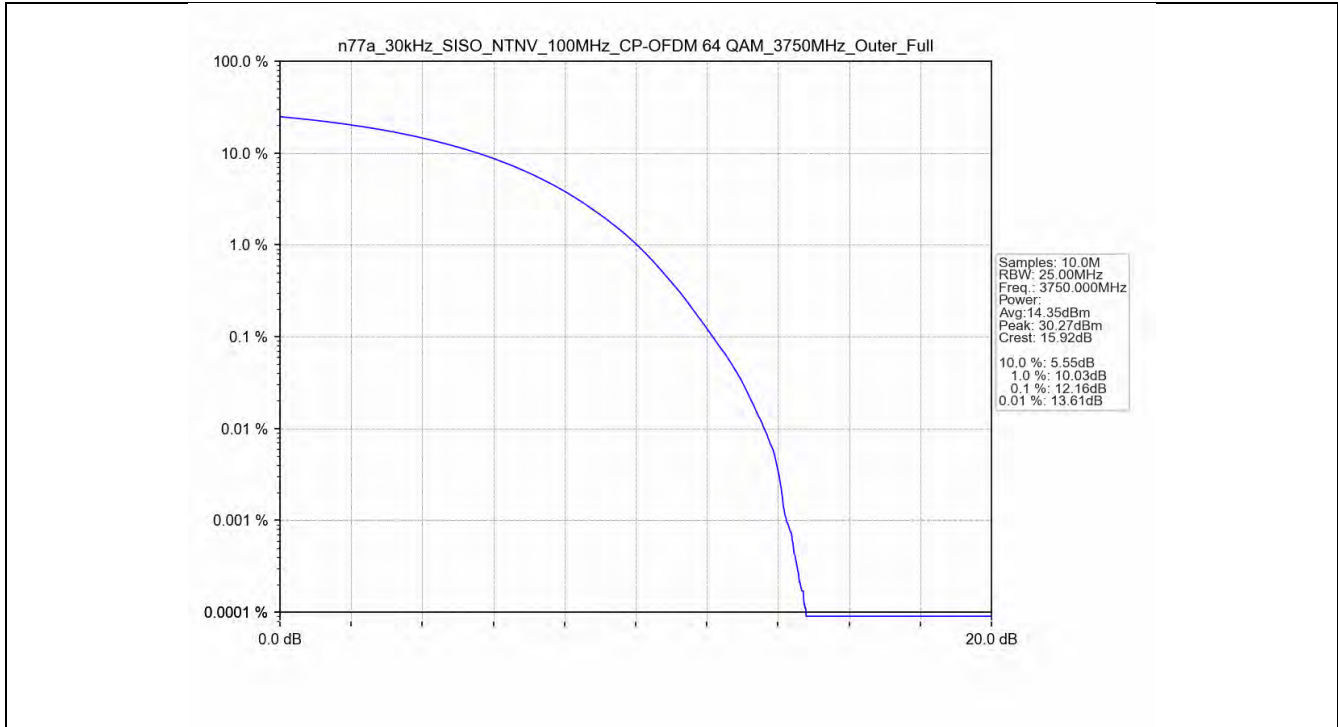


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Rev.: 01

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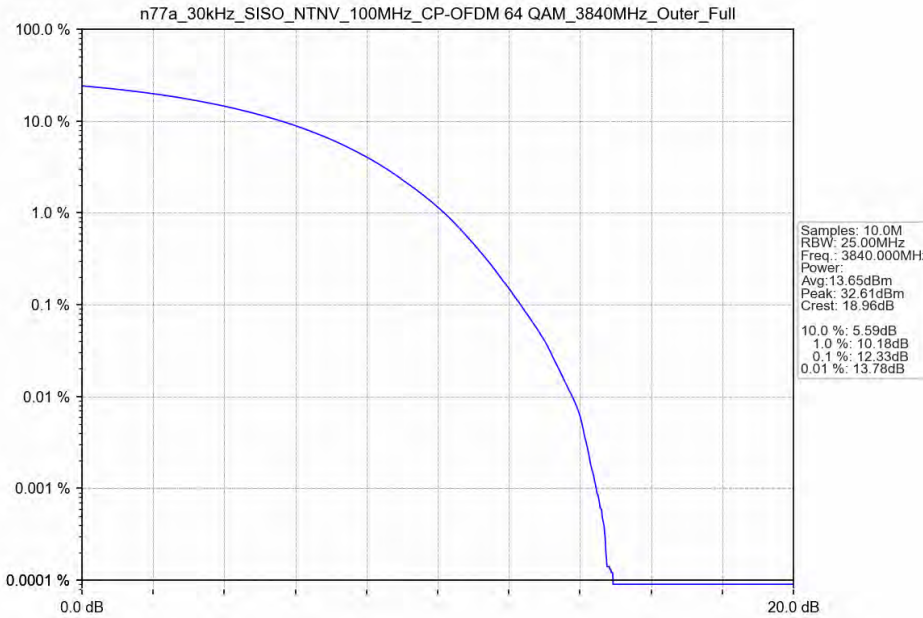
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Report No.: SZCR240100038409

Rev.: 01

Page: 380 of 973

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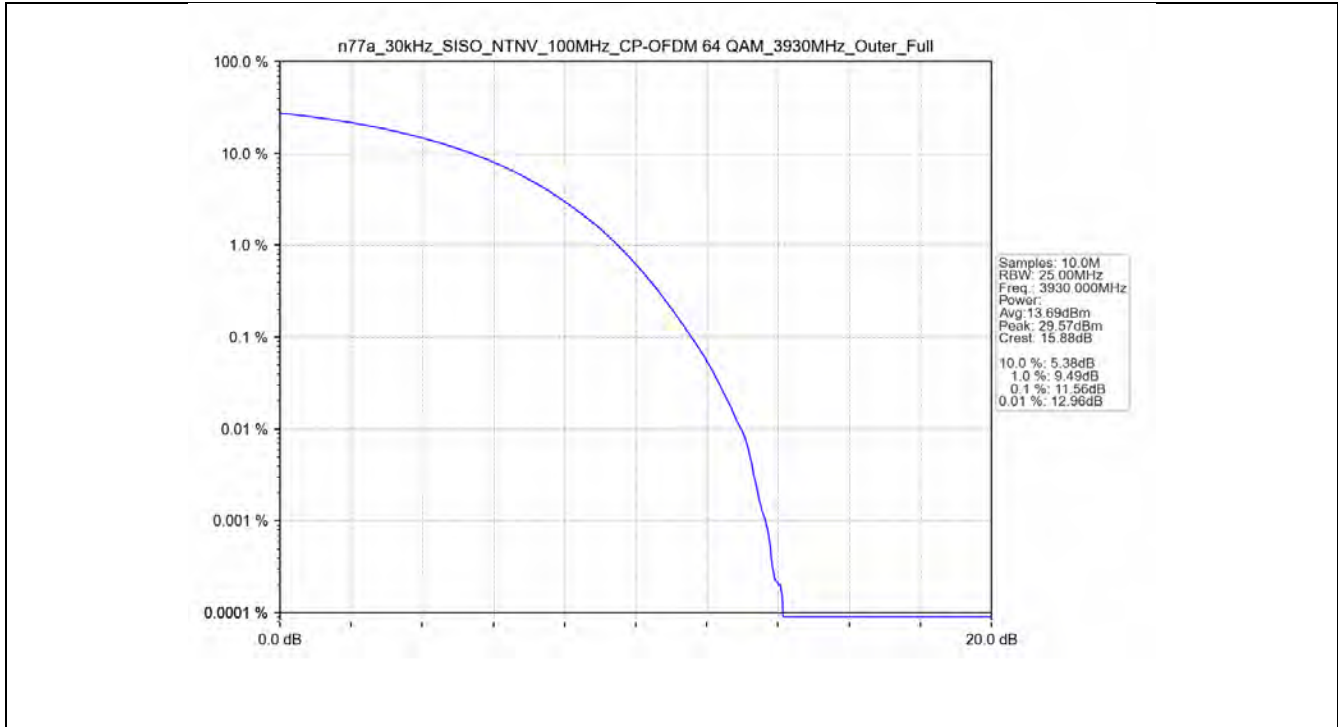


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Report No.: SZCR240100038409

Rev.: 01

Page: 381 of 973



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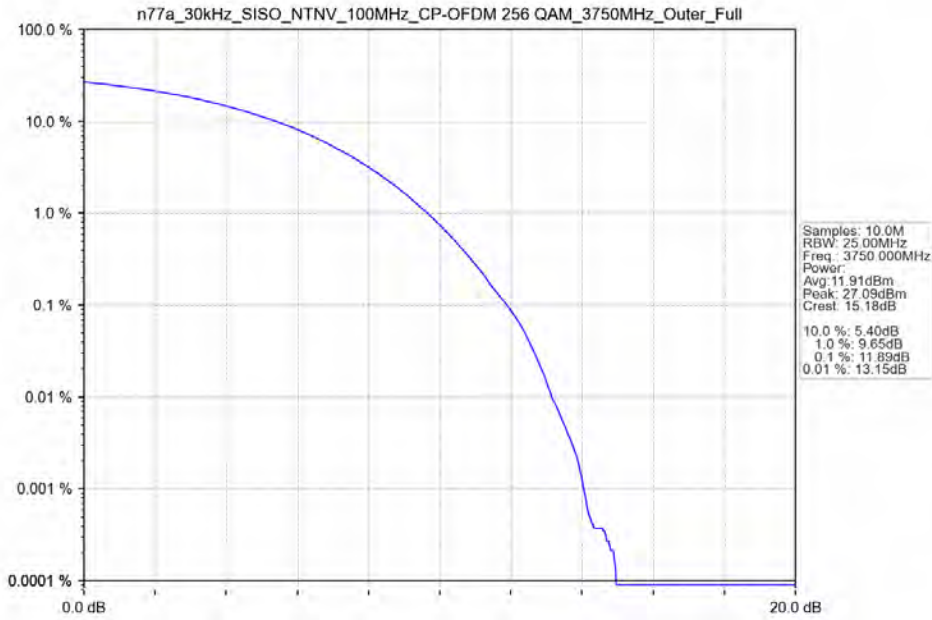
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Report No.: SZCR240100038409

Rev.: 01

Page: 382 of 973

n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3750MHz\_Outer\_Full



n77a\_30kHz\_SISO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3840MHz\_Outer\_Full



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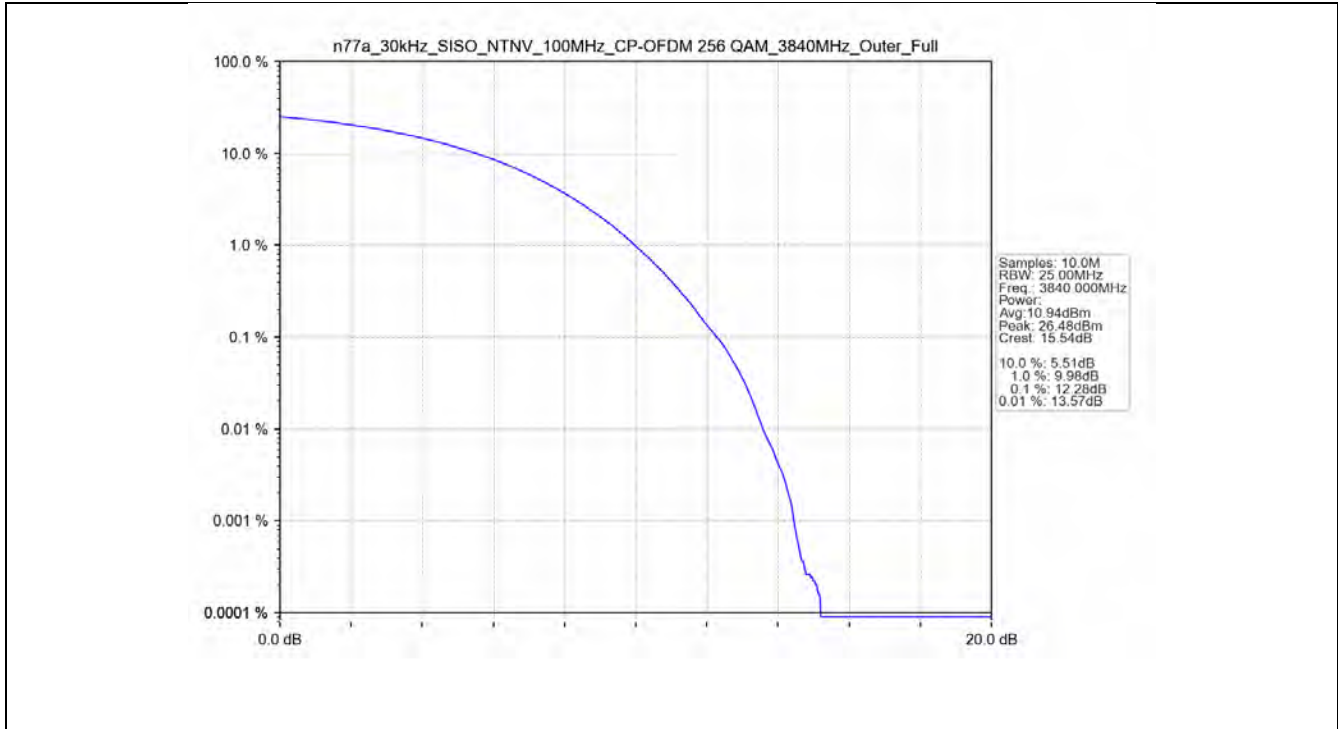


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Report No.: SZCR240100038409

Rev.: 01

Page: 383 of 973



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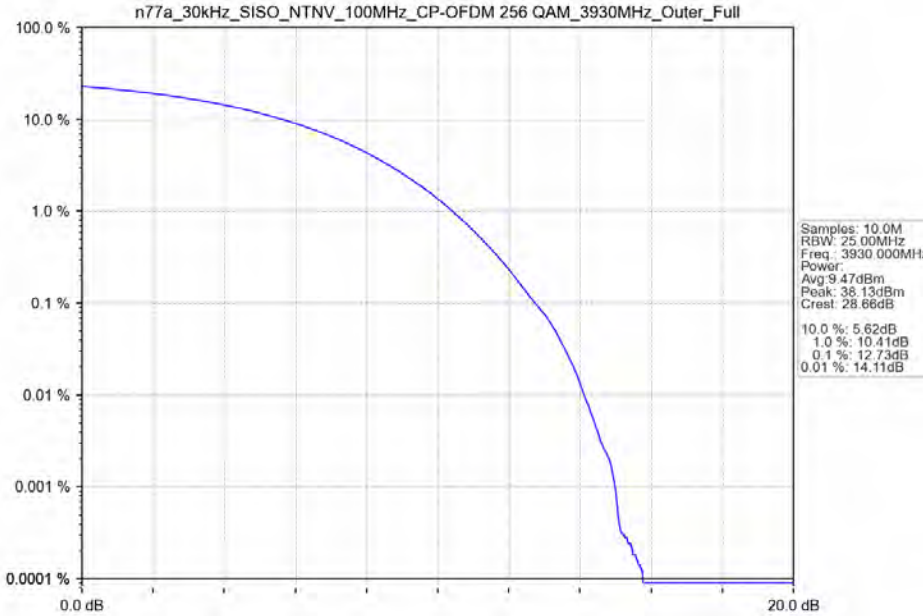
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Report No.: SZCR240100038409

Rev.: 01

Page: 384 of 973

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Report No.: SZCR240100038409

Rev.: 01

Page: 385 of 973

## 5. Spurious Emission & Band Edges

### 5.1 30k\_SISO\_20MHz\_NTNV

#### 5.1.1 Test Result

5G NR n77a SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3710.01	Edge_1RB_Left	Refer To Test Graph			Pass	
		Outer_Full	Refer To Test Graph			Pass	
		Inner_1RB_Left	Refer To Test Graph			Pass	
	3840	Edge_1RB_Left	Refer To Test Graph			Pass	
		Edge_1RB_Right	Refer To Test Graph			Pass	
		Inner_1RB_Right	Refer To Test Graph			Pass	
DFT-s-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph			Pass	
		Outer_Full	Refer To Test Graph			Pass	
		Inner_1RB_Left	Refer To Test Graph			Pass	
	3840	Edge_1RB_Left	Refer To Test Graph			Pass	
		Edge_1RB_Right	Refer To Test Graph			Pass	
		Inner_1RB_Right	Refer To Test Graph			Pass	
CP-OFDM QPSK	3710.01	Edge_1RB_Left	Refer To Test Graph			Pass	
		Outer_Full	Refer To Test Graph			Pass	
		Inner_1RB_Left	Refer To Test Graph			Pass	
	3840	Edge_1RB_Left	Refer To Test Graph			Pass	
		Edge_1RB_Right	Refer To Test Graph			Pass	
		Inner_1RB_Right	Refer To Test Graph			Pass	



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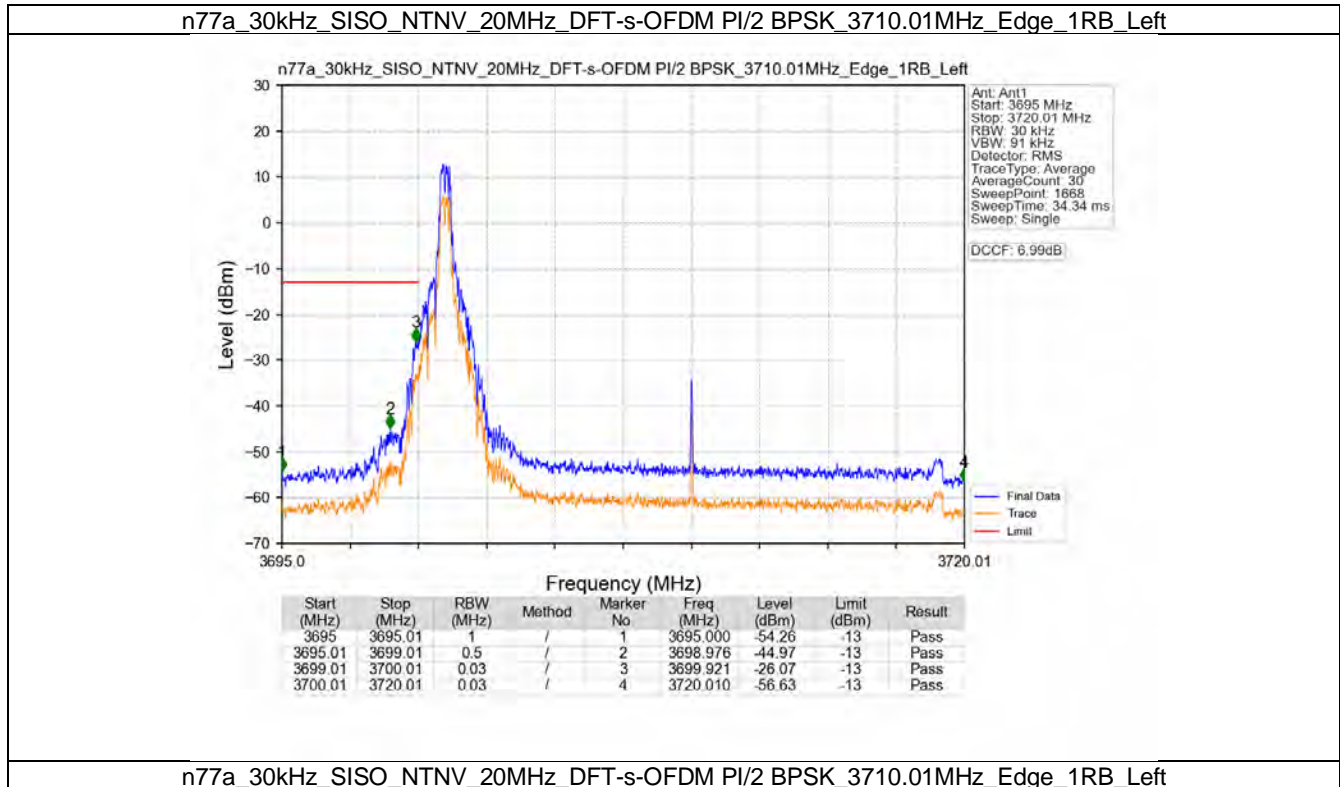
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Report No.: SZCR240100038409  
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Page: 386 of 973

5.1.2 Test Graph



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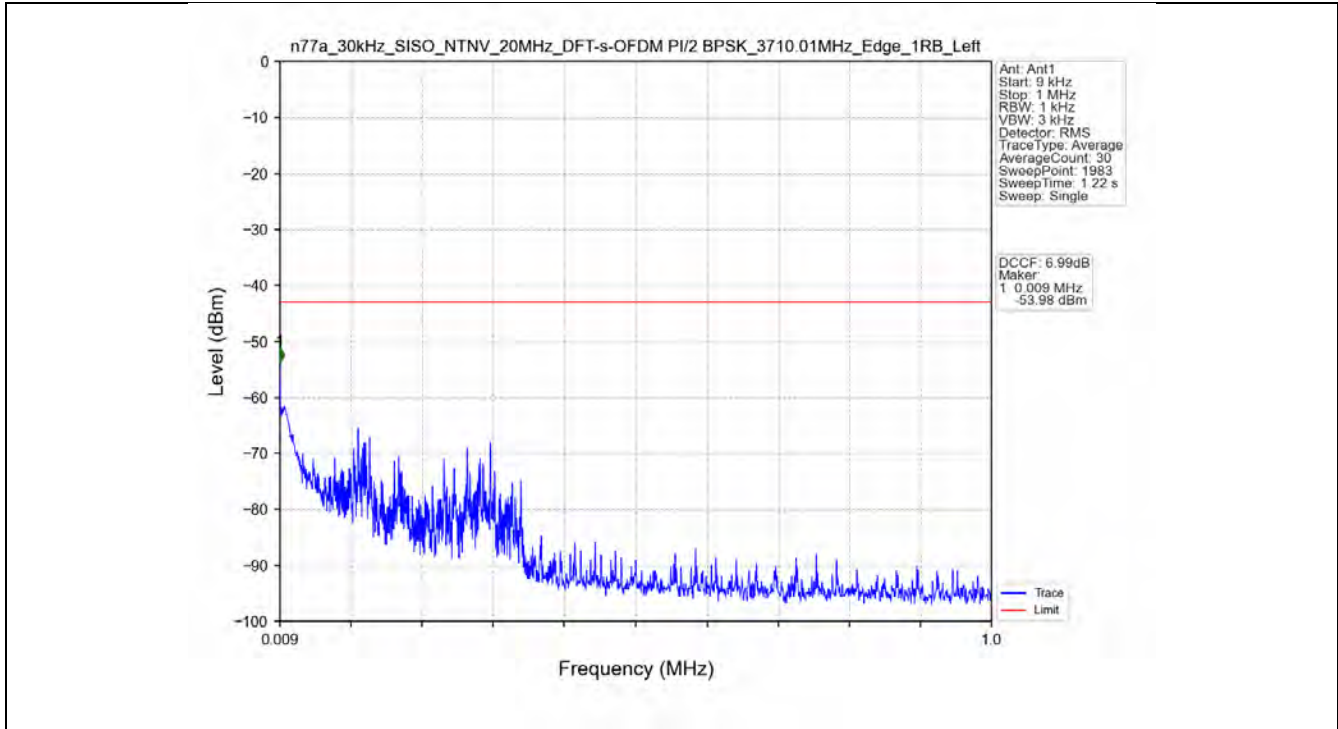


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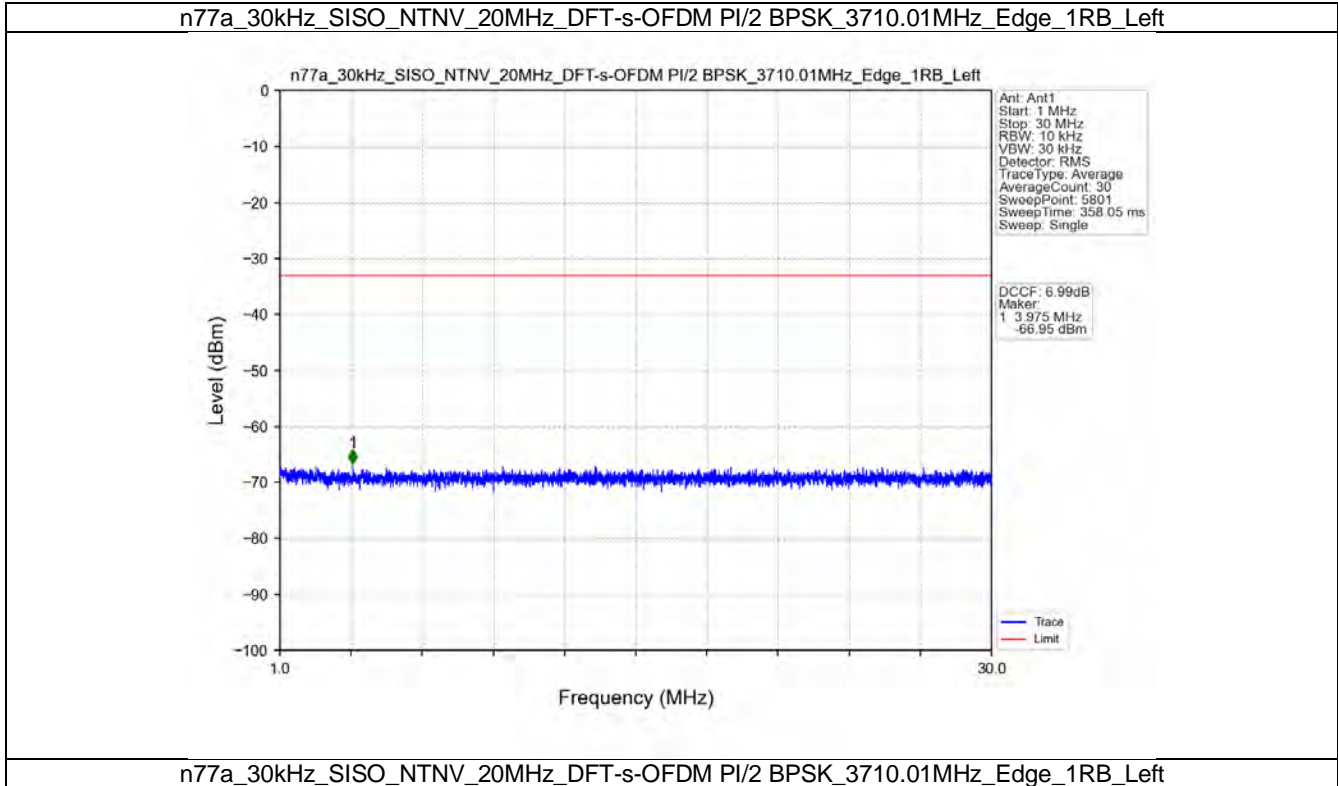


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Rev.: 01

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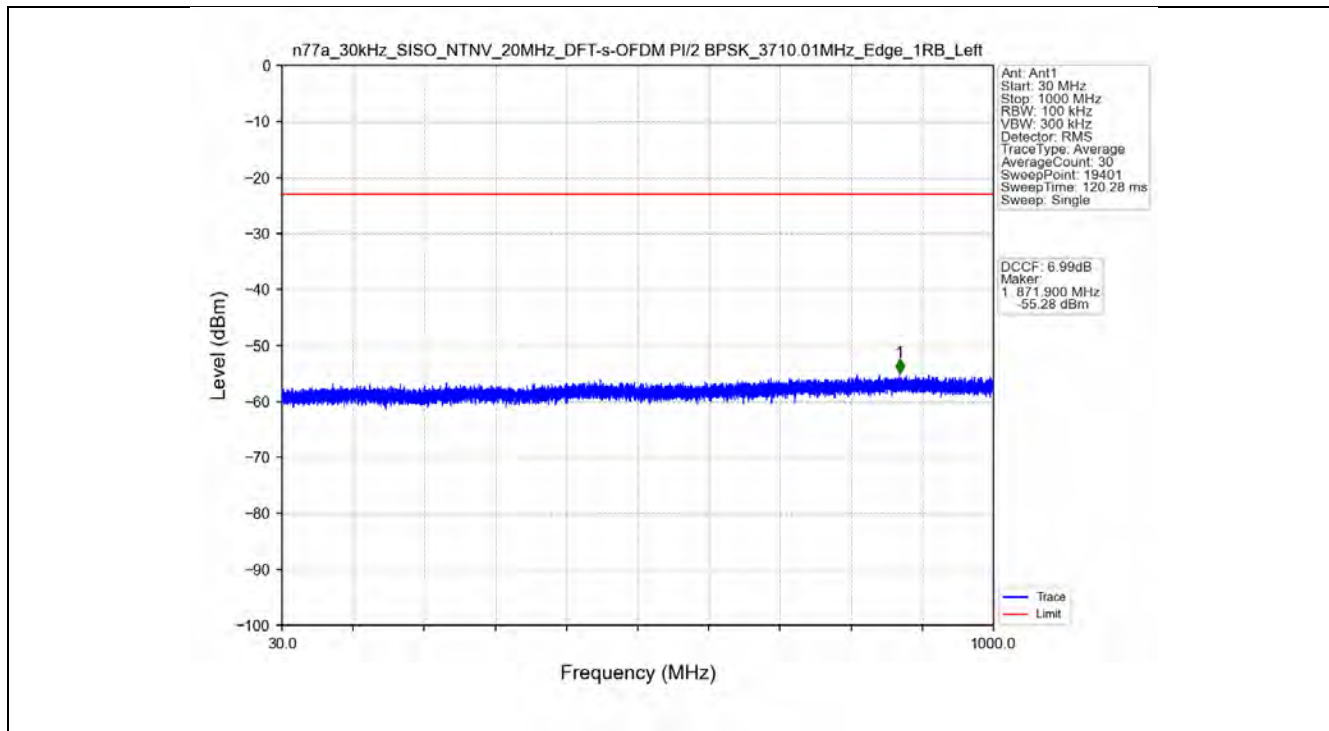
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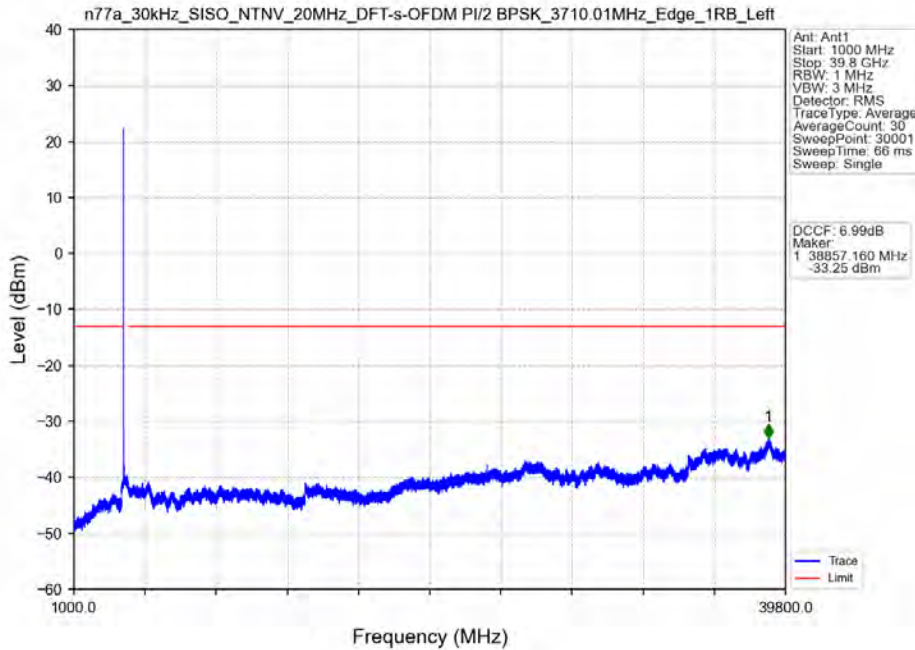
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Report No.: SZCR240100038409

Rev.: 01

Page: 390 of 973

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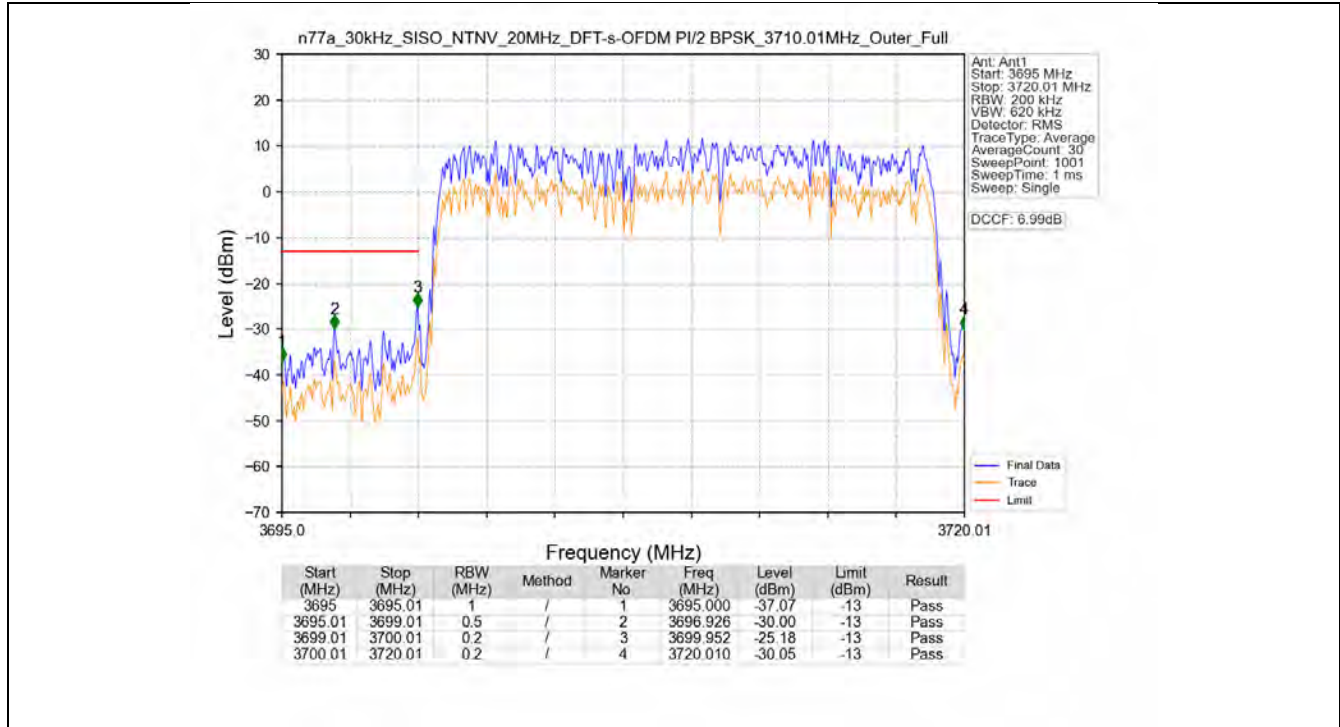


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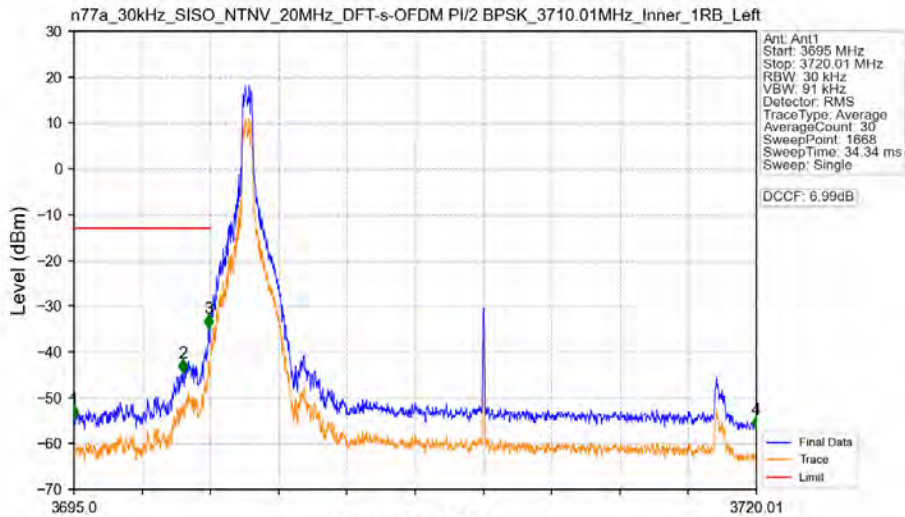
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Report No.: SZCR240100038409

Rev.: 01

Page: 392 of 973

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-54.70	-13	Pass
3695.01	3699.01	0.5	/	2	3698.991	-44.55	-13	Pass
3699.01	3700.01	0.03	/	3	3699.936	-34.98	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-56.96	-13	Pass

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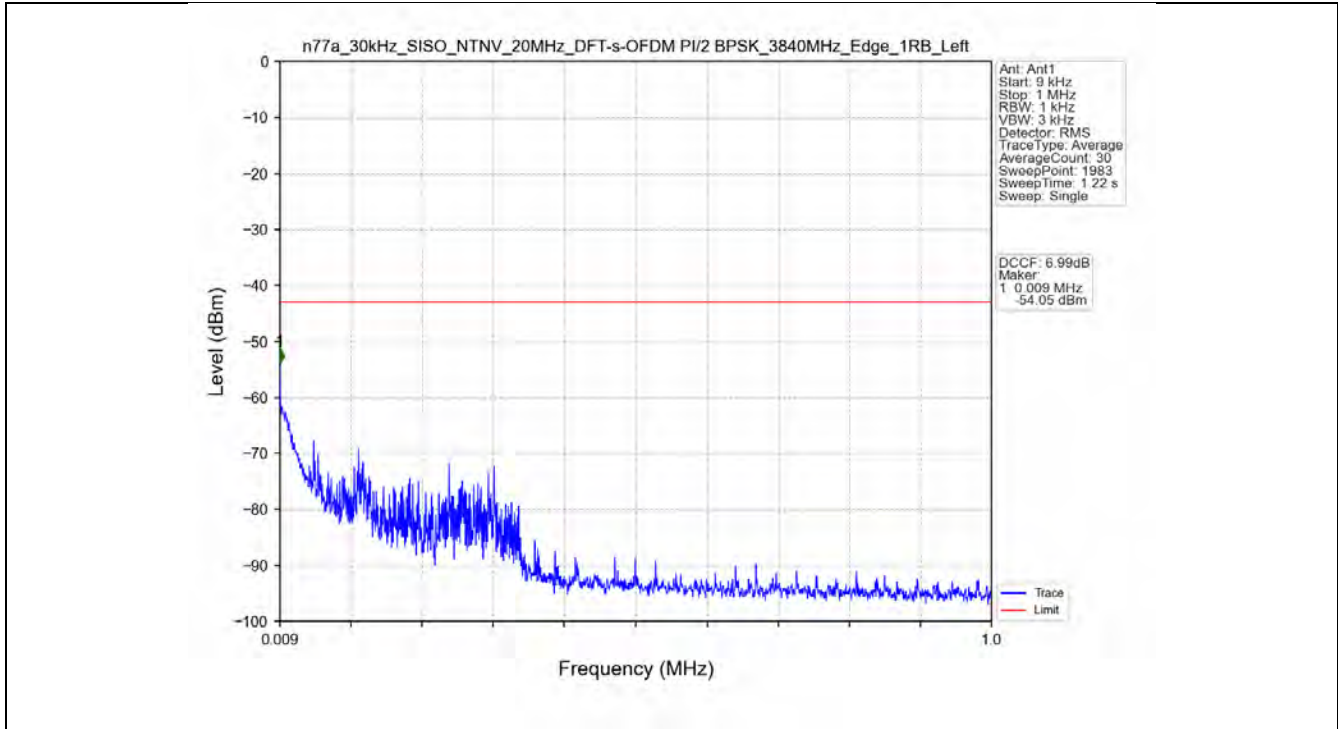


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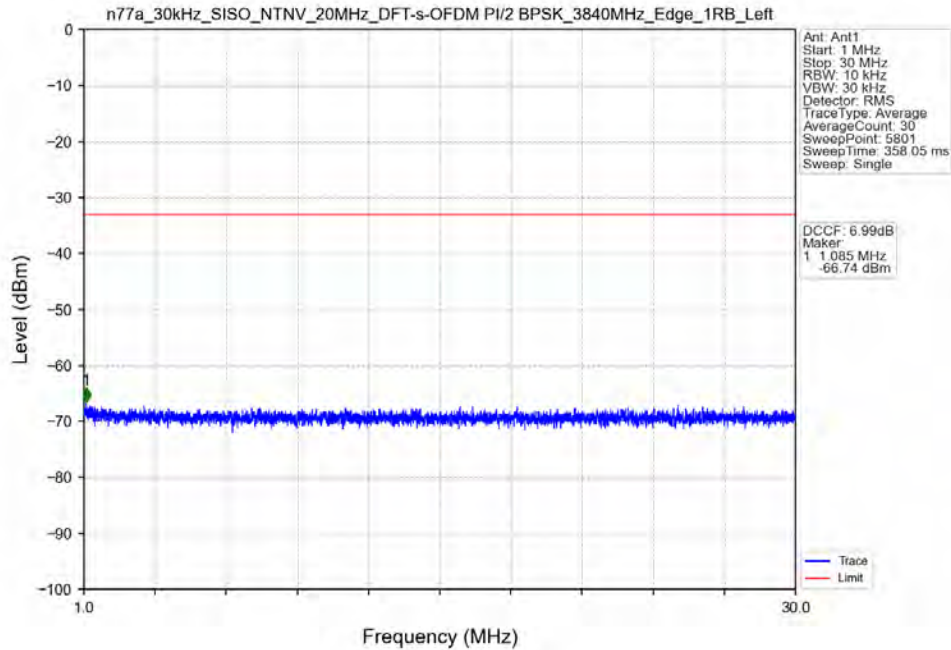
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Report No.: SZCR240100038409

Rev.: 01

Page: 394 of 973

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n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3840MHz\_Edge\_1RB\_Left



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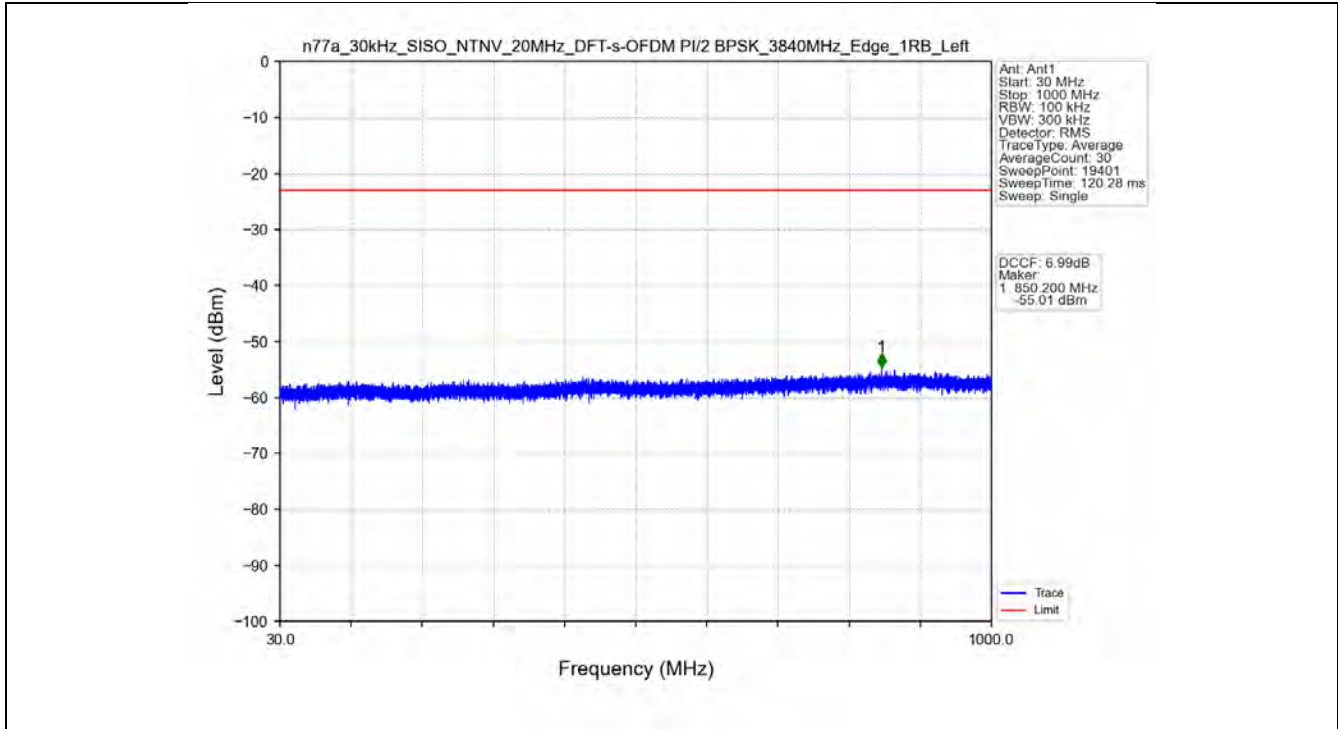


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Report No.: SZCR240100038409

Rev.: 01

Page: 395 of 973



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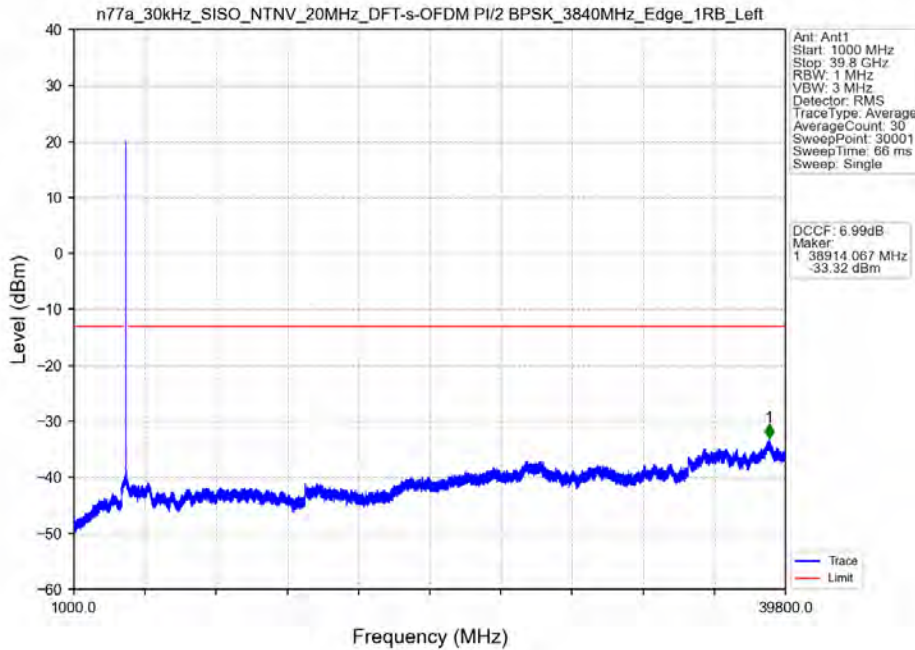
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Report No.: SZCR240100038409

Rev.: 01

Page: 396 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3840MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3969.99MHz\_Edge\_1RB\_Right



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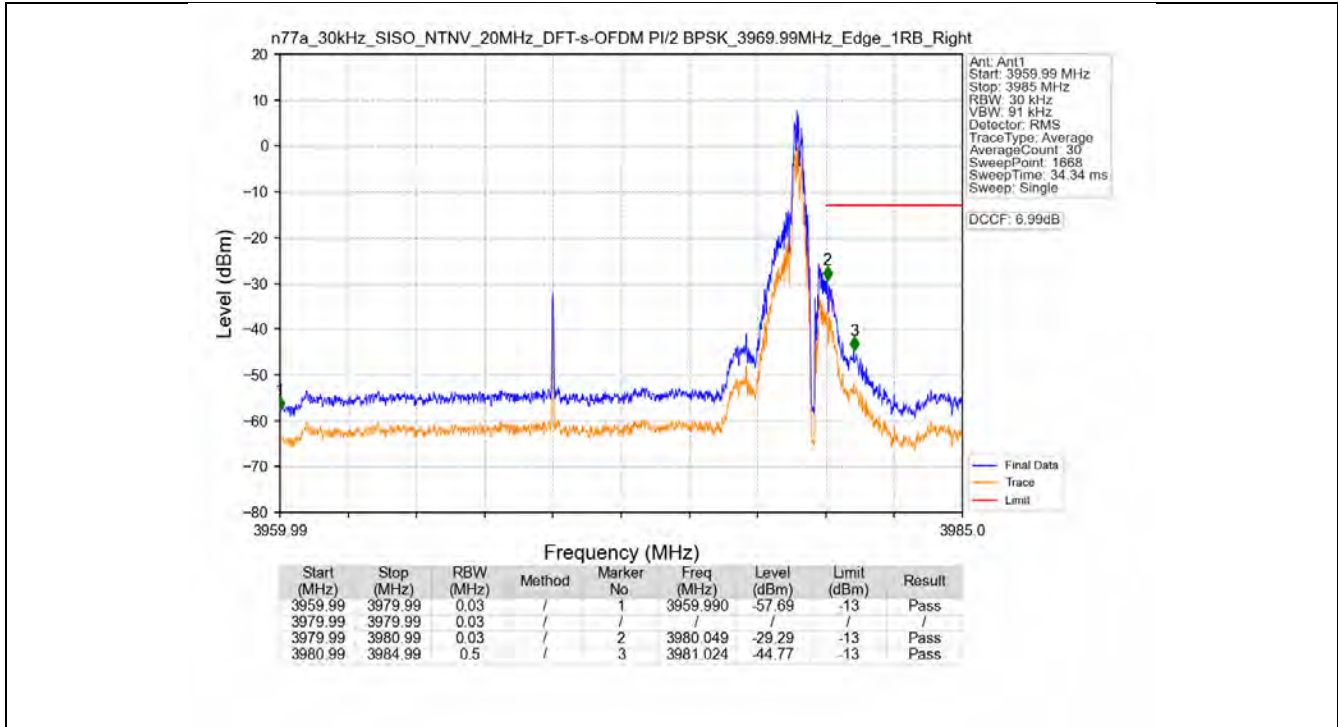


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Rev.: 01

Page: 397 of 973



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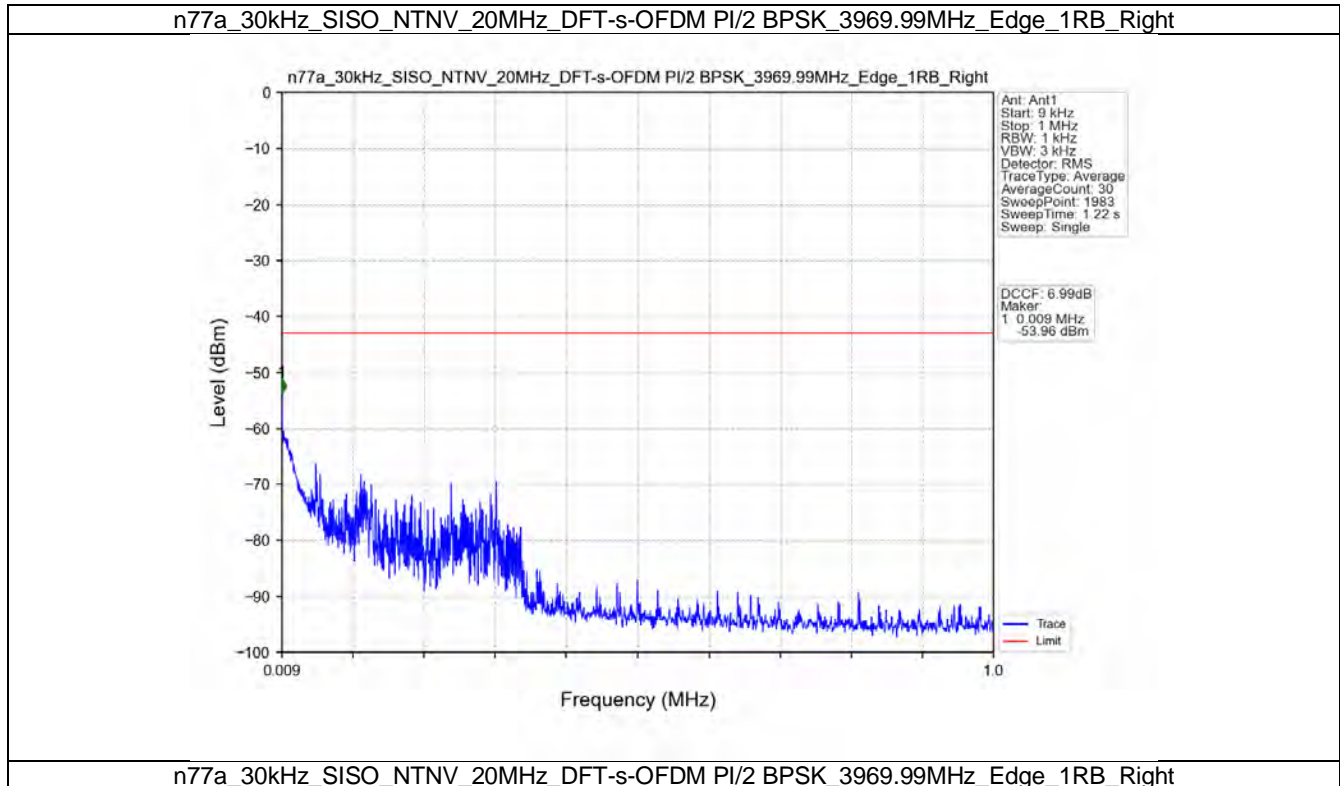


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Rev.: 01

Page: 398 of 973



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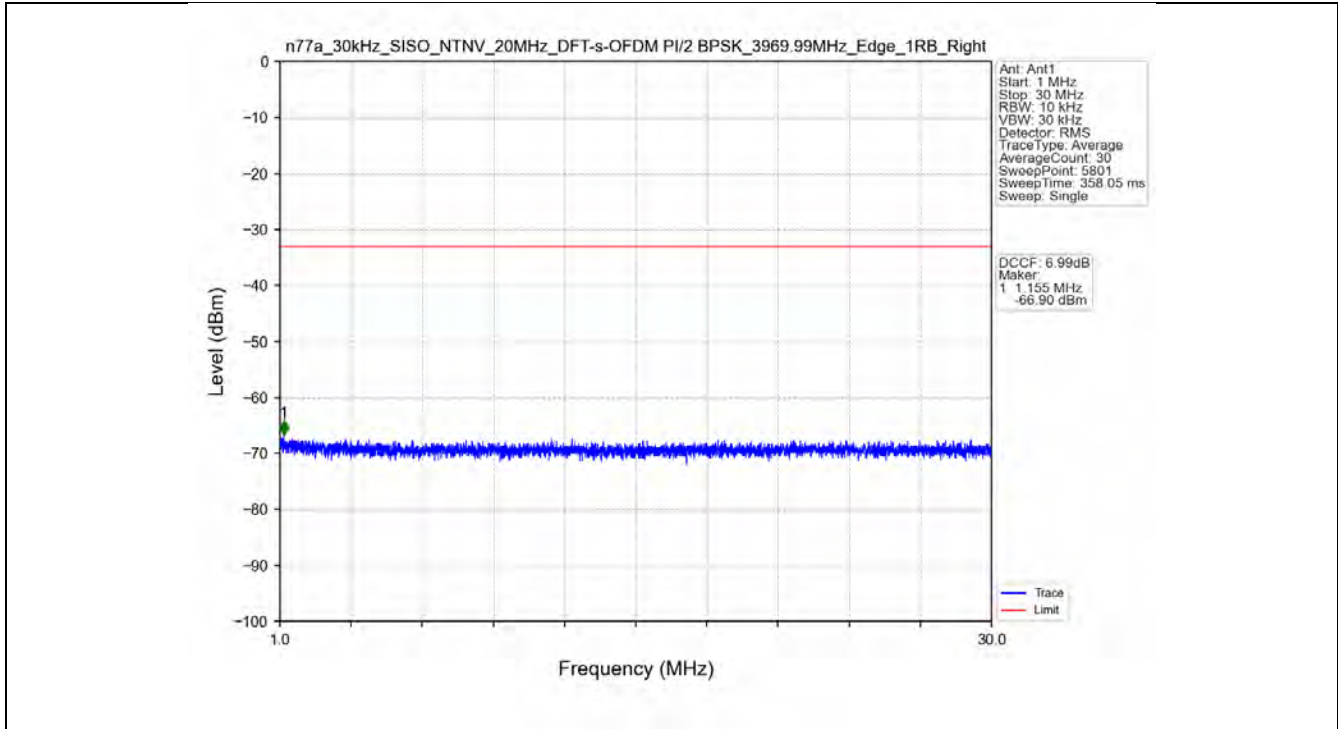


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Rev.: 01

Page: 399 of 973



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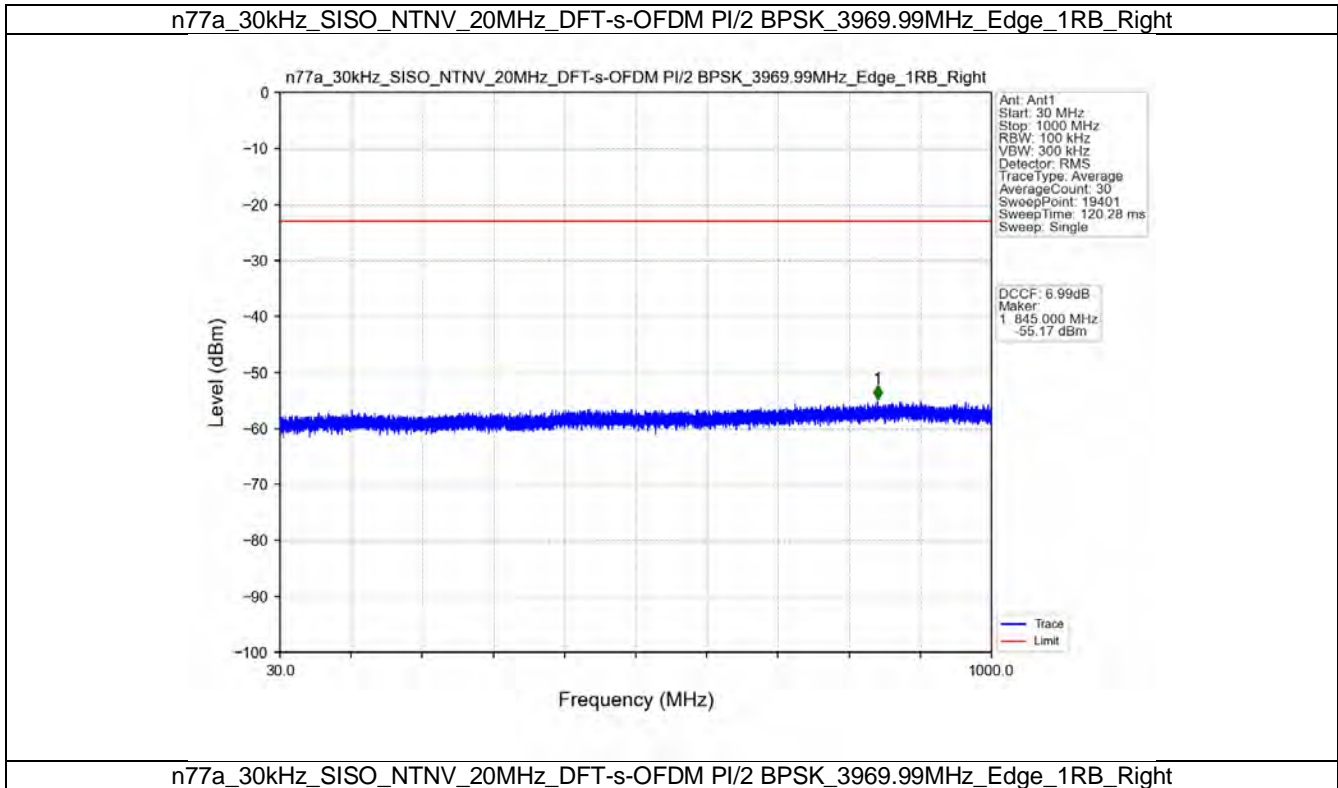


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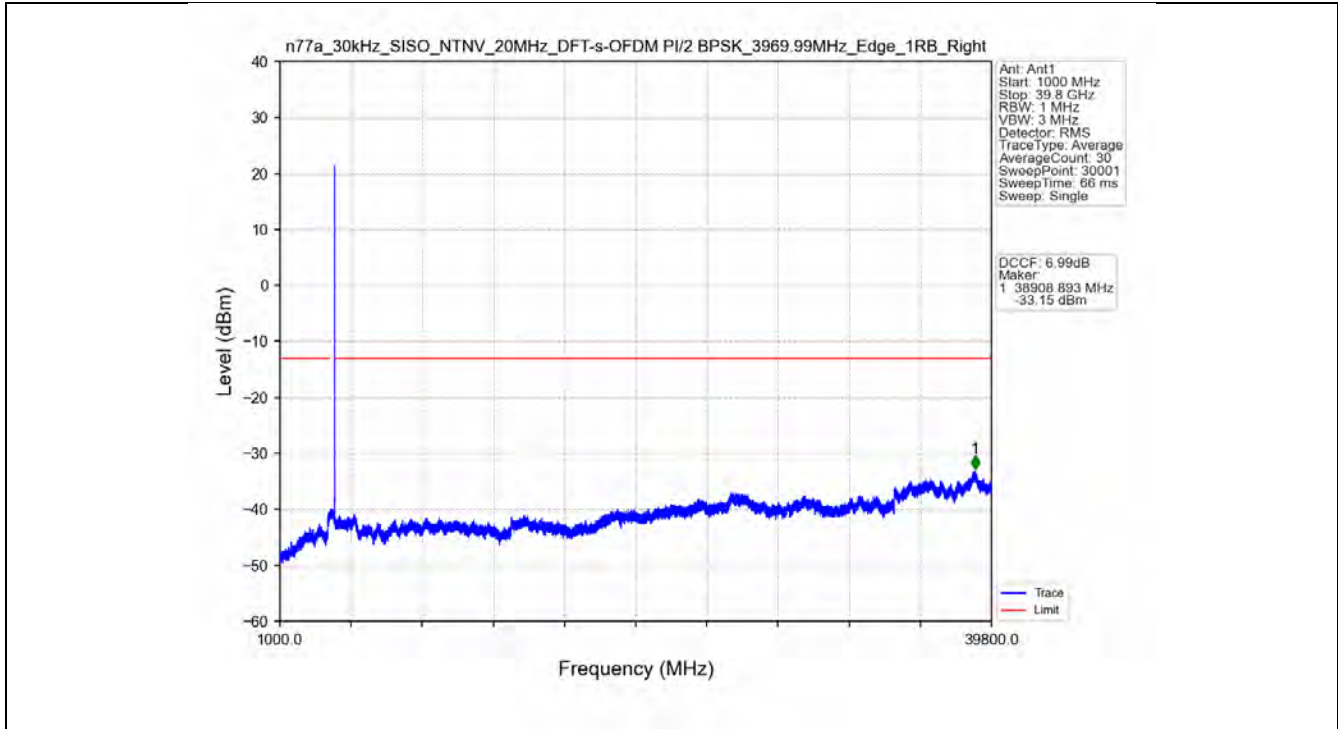


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Page: 401 of 973



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Page: 402 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3969.99MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.2	/	1	3959.990	-34.76	-13	Pass
3979.99	3979.99	0.2	/	/	/	/	/	/
3979.99	3980.99	0.2	/	2	3980.498	-26.83	-13	Pass
3980.99	3984.99	0.5	/	3	3982.624	-25.13	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3969.99MHz\_Inner\_1RB\_Right



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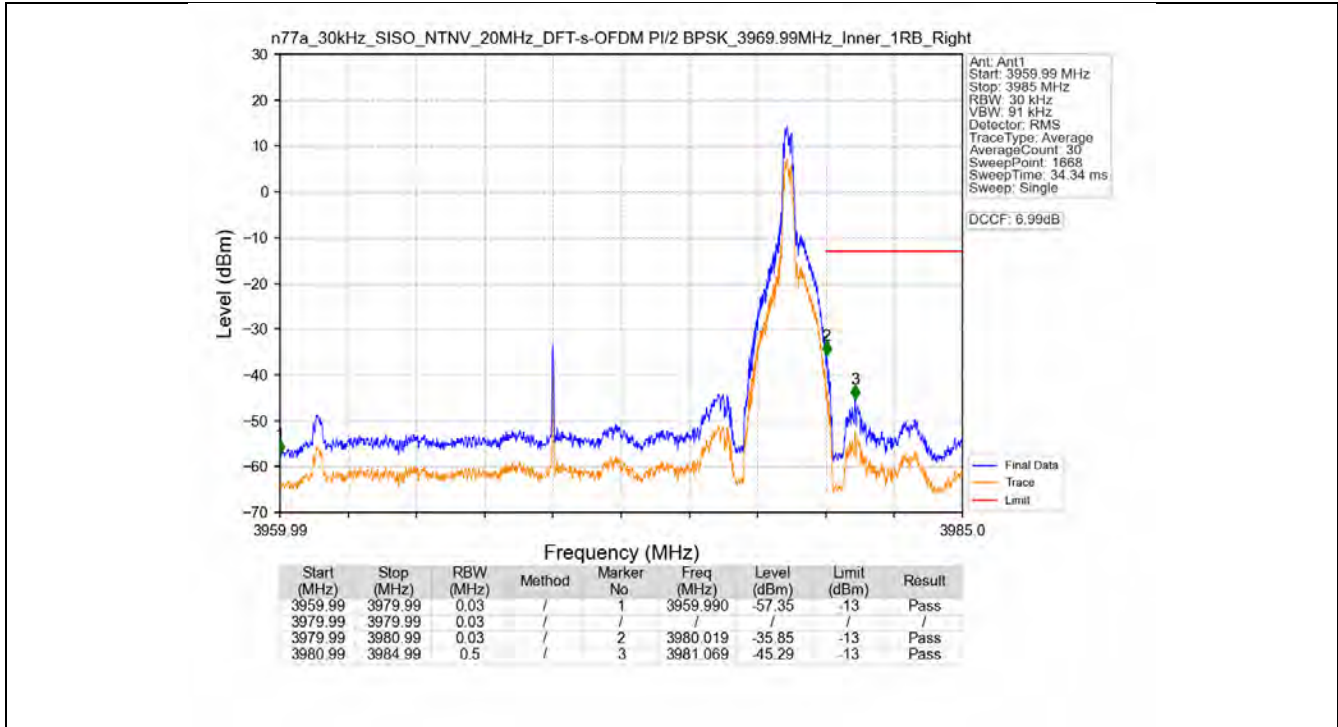


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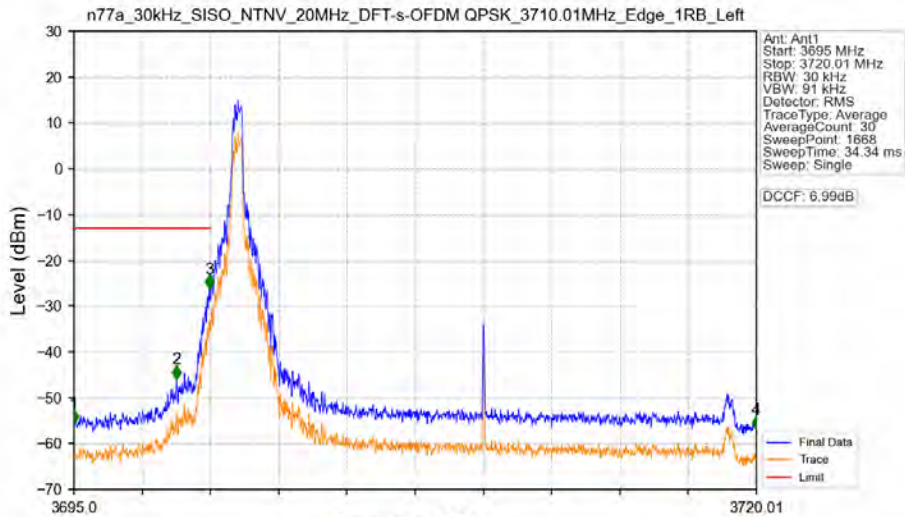
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Report No.: SZCR240100038409

Rev.: 01

Page: 404 of 973

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-55.77	-13	Pass
3695.01	3699.01	0.5	/	2	3698.766	-45.94	-13	Pass
3699.01	3700.01	0.03	/	3	3699.966	-26.26	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-56.89	-13	Pass

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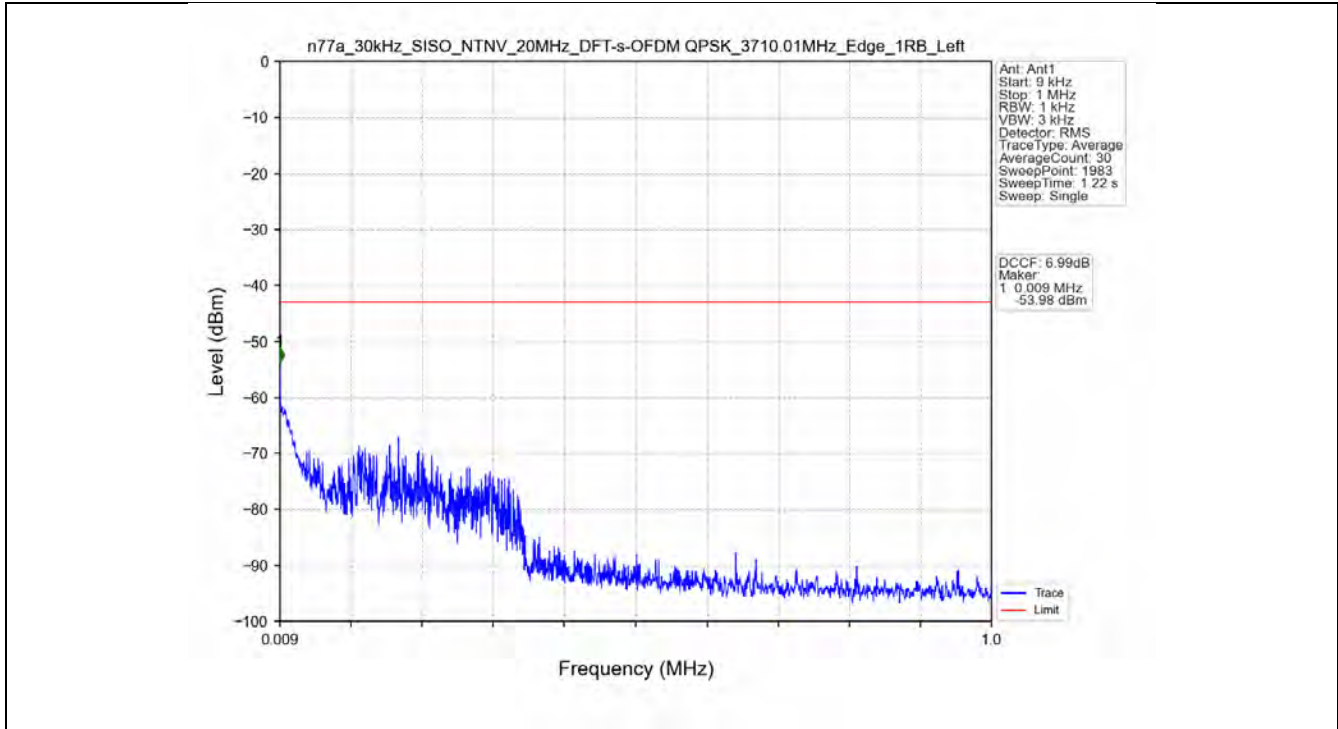


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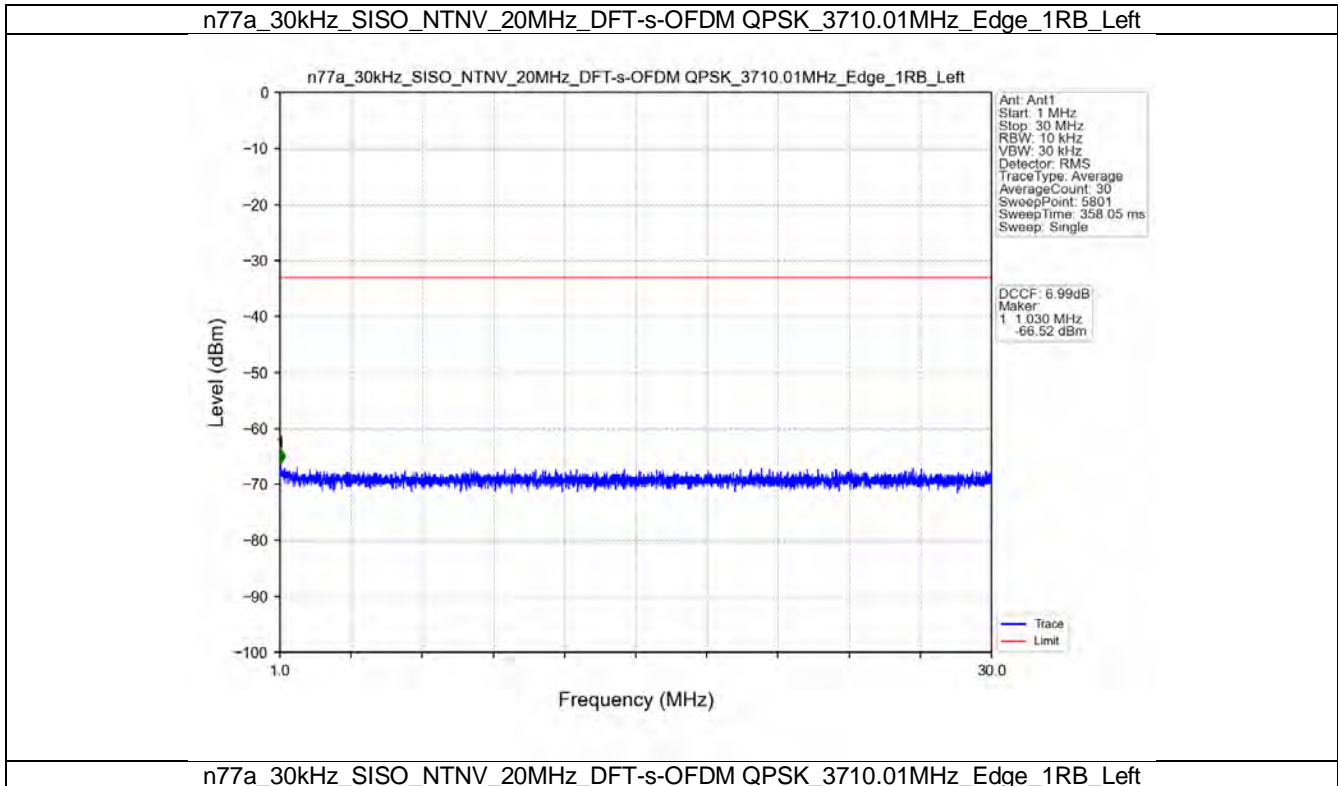


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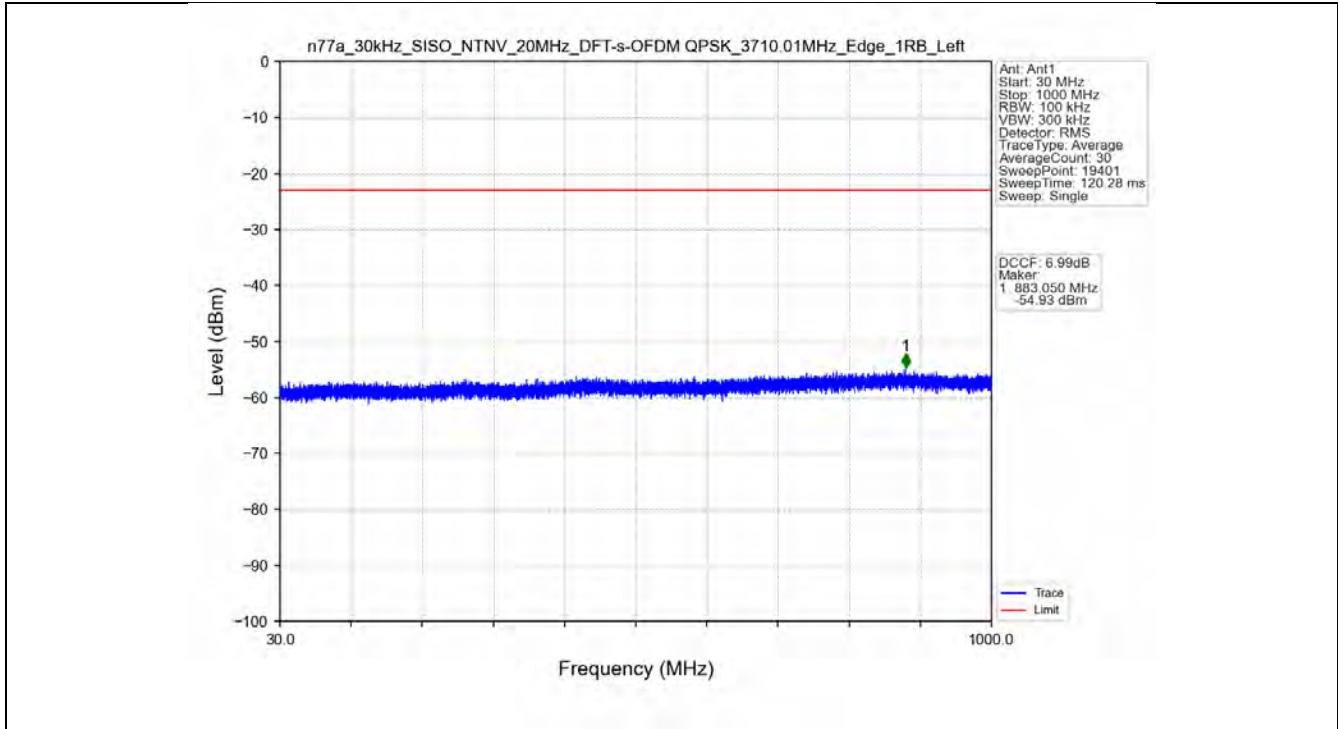


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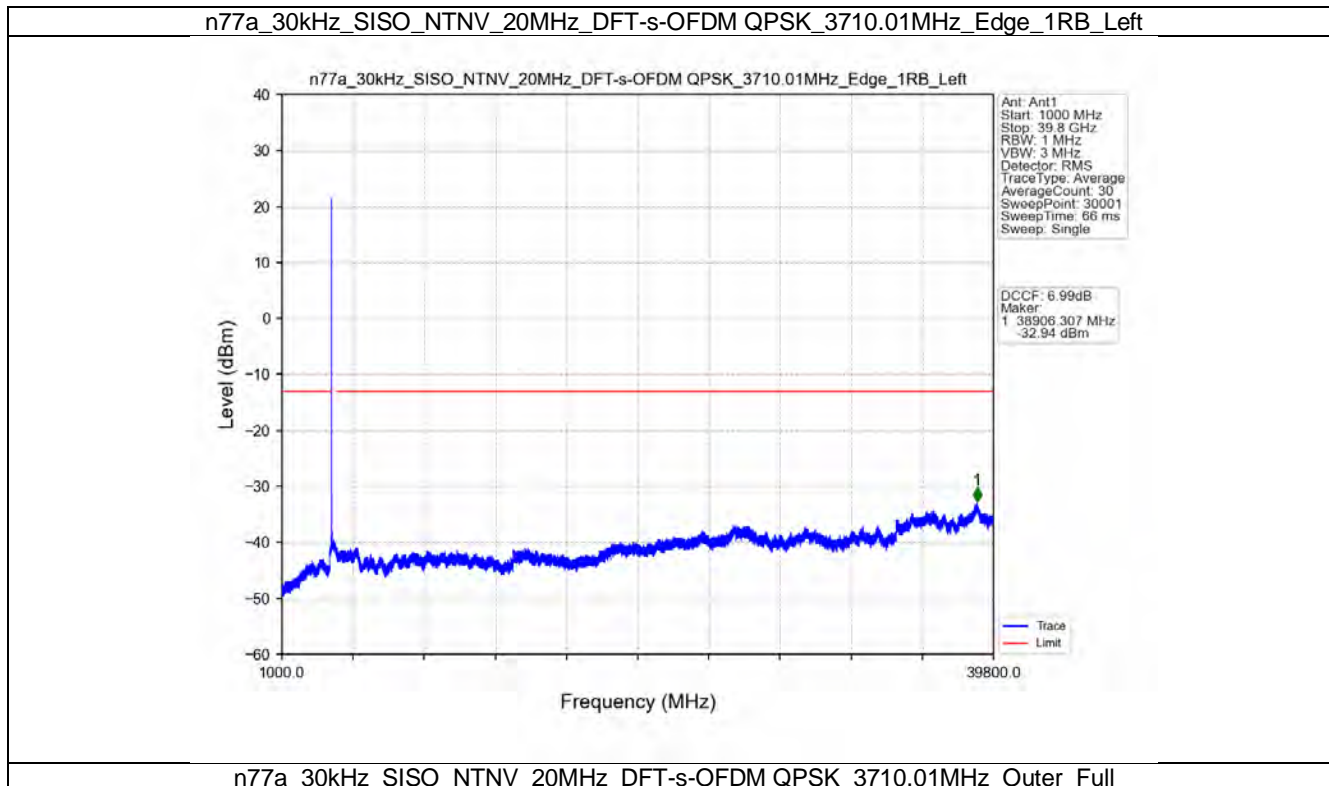
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Rev.: 01  
Page: 408 of 973



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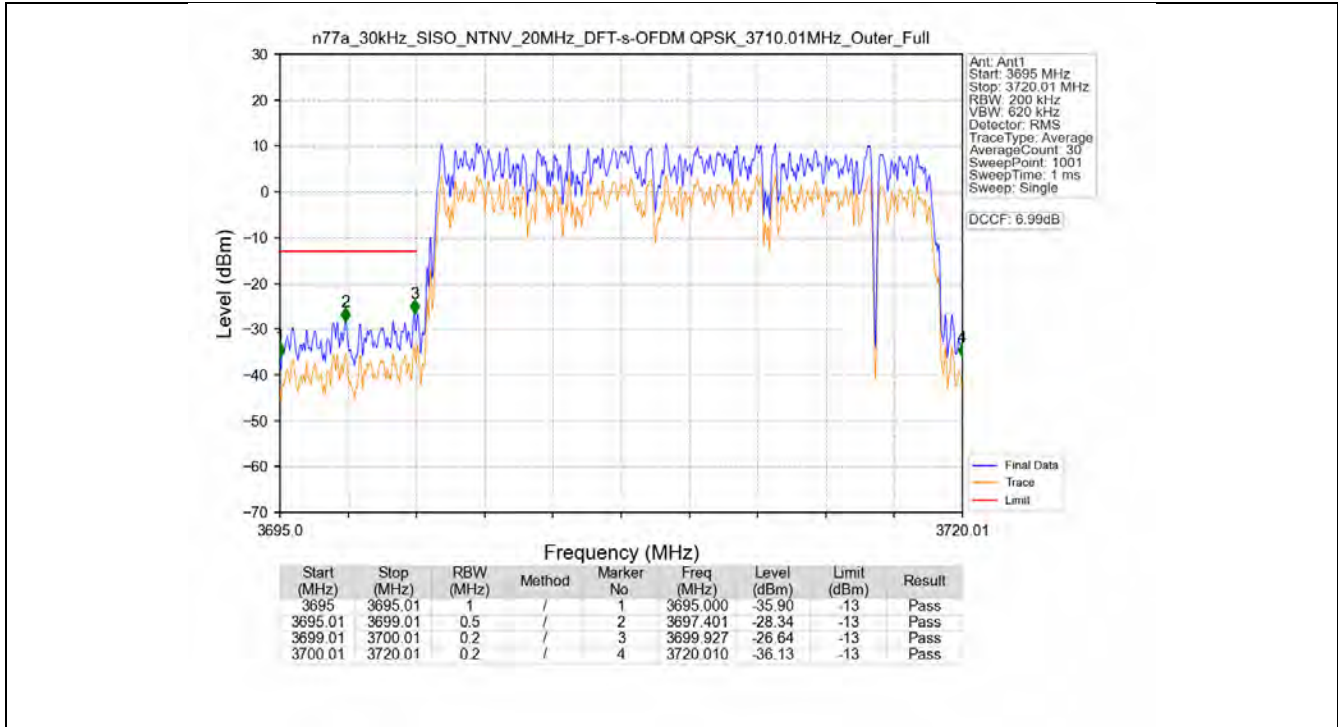


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Report No.: SZCR240100038409

Rev.: 01

Page: 409 of 973



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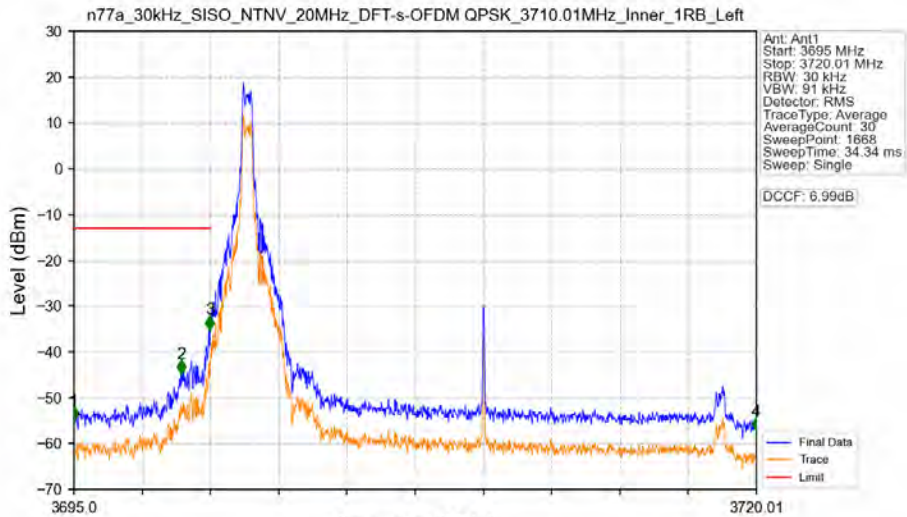
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Report No.: SZCR240100038409

Rev.: 01

Page: 410 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3710.01MHz\_Inner\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-55.01	-13	Pass
3695.01	3699.01	0.5	/	2	3698.931	-44.79	-13	Pass
3699.01	3700.01	0.03	/	3	3699.981	-35.18	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-57.29	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Edge\_1RB\_Left



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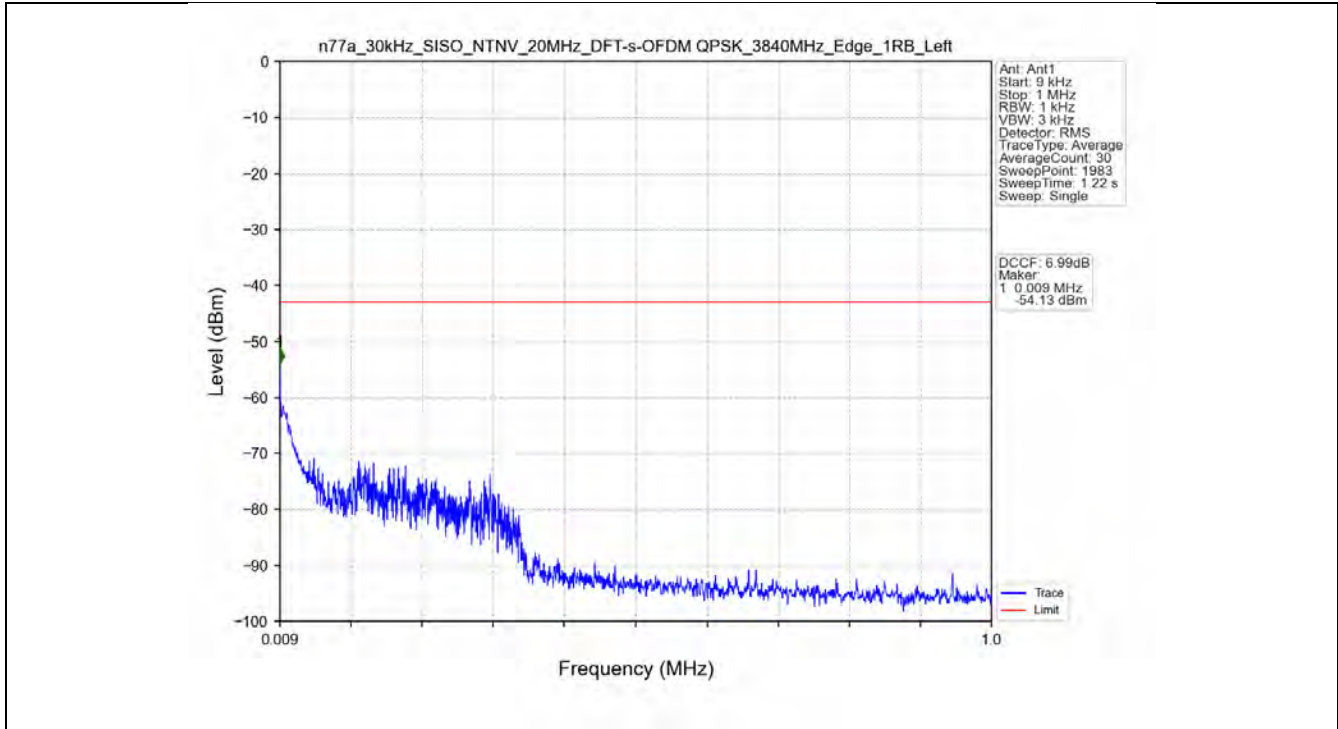


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Report No.: SZCR240100038409

Rev.: 01

Page: 411 of 973



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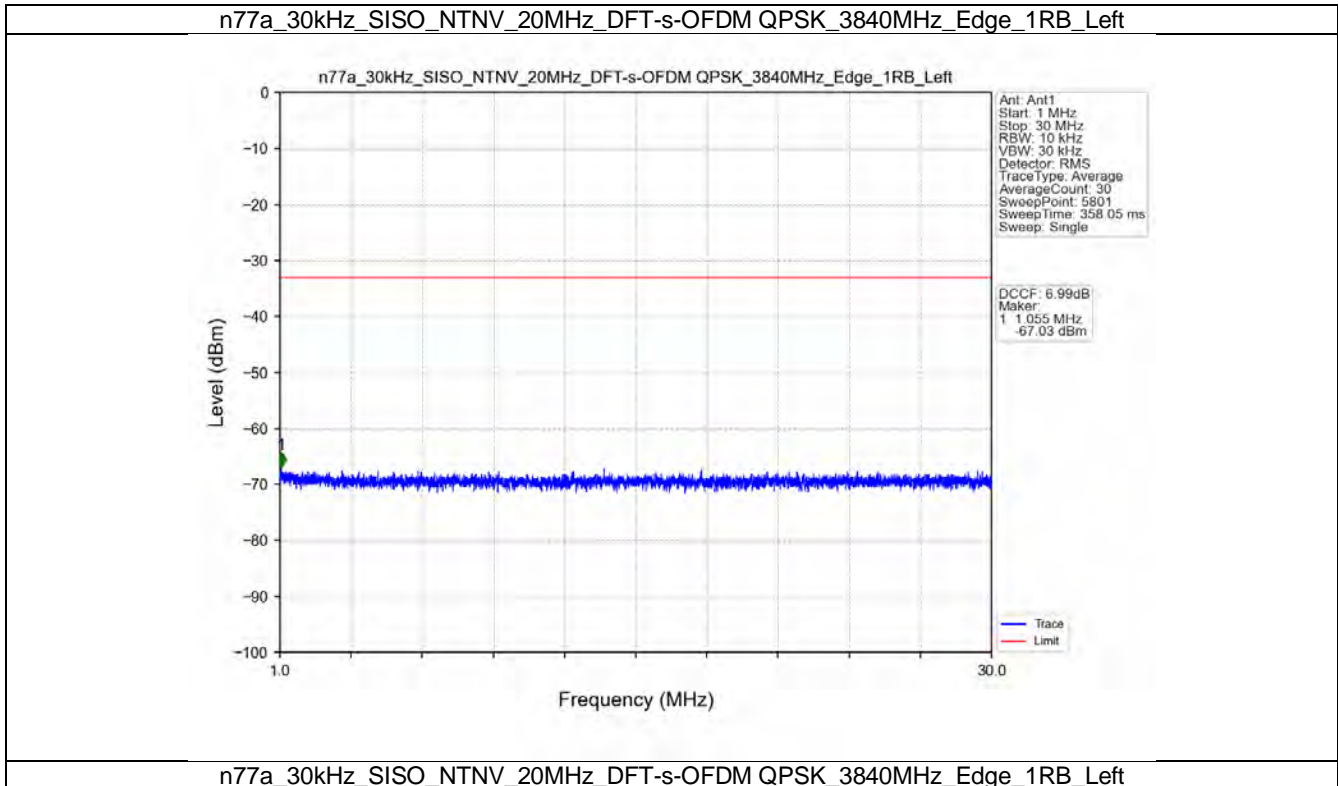


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Report No.: SZCR240100038409

Rev.: 01

Page: 412 of 973



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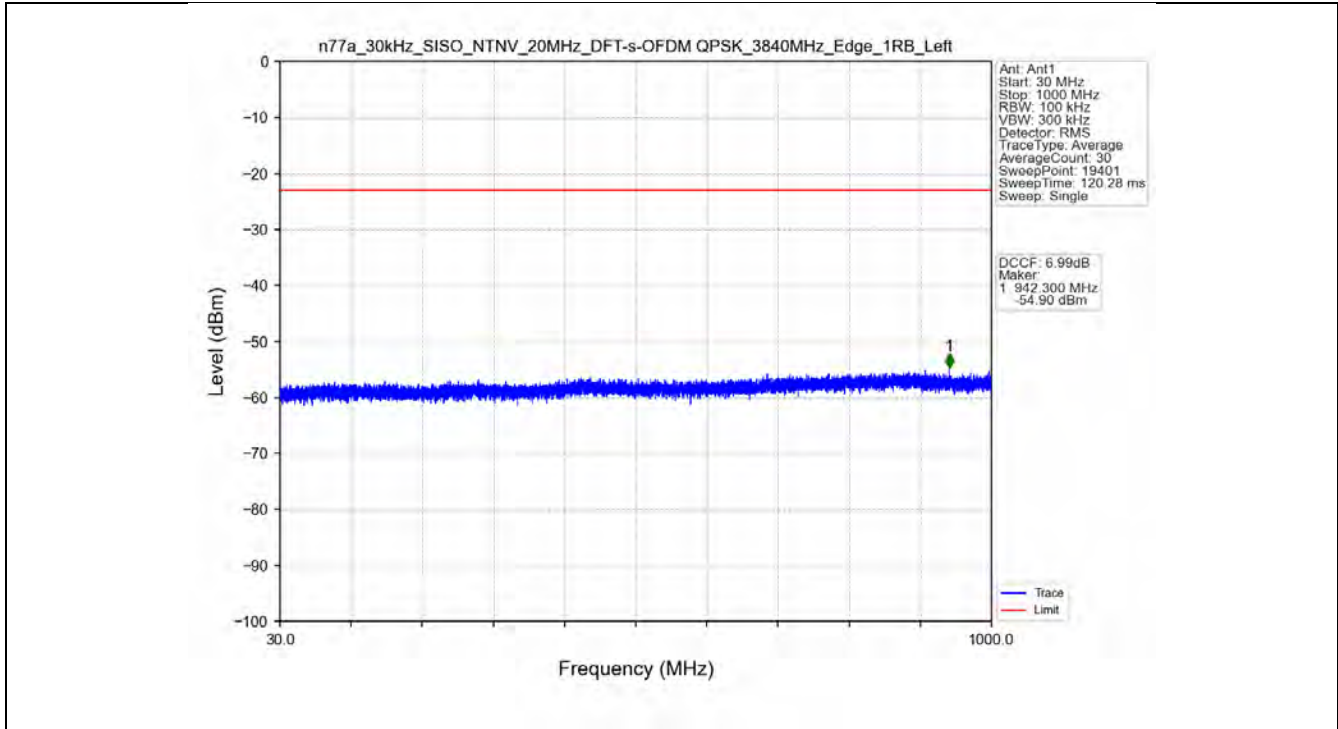


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Report No.: SZCR240100038409

Rev.: 01

Page: 413 of 973



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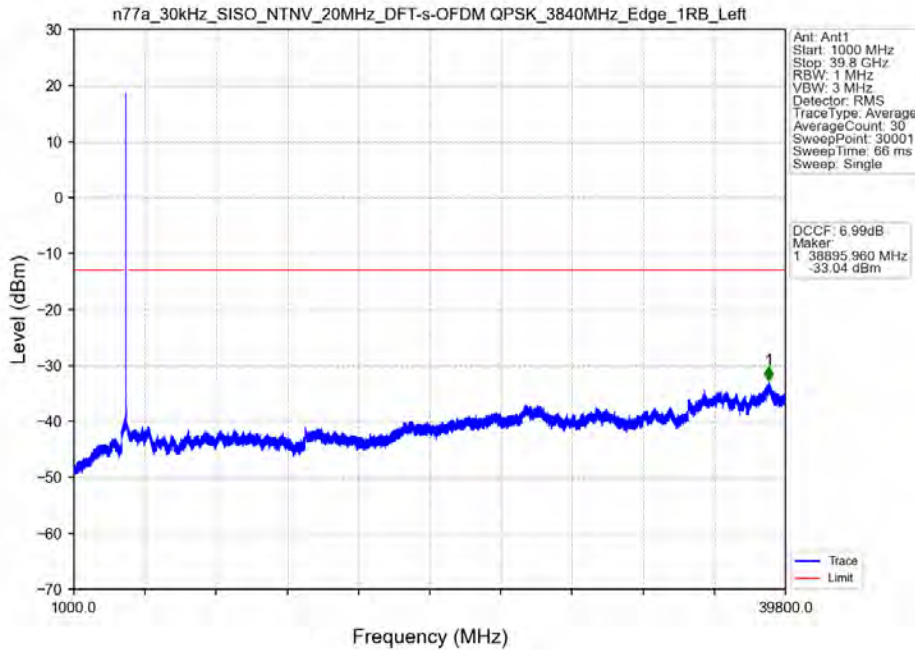
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Shenzhen Branch**

Report No.: SZCR240100038409

Rev.: 01

Page: 414 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM\_QPSK\_3969.99MHz\_Edge\_1RB\_Right



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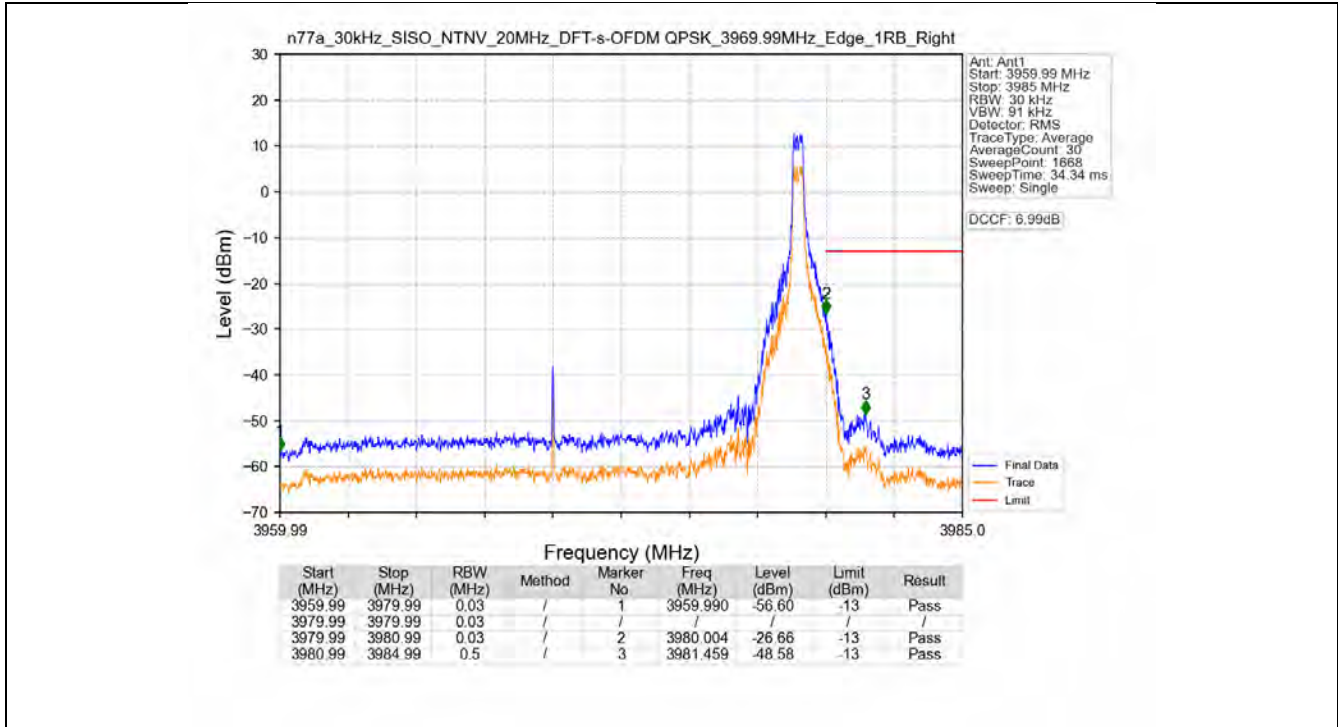


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Rev.: 01

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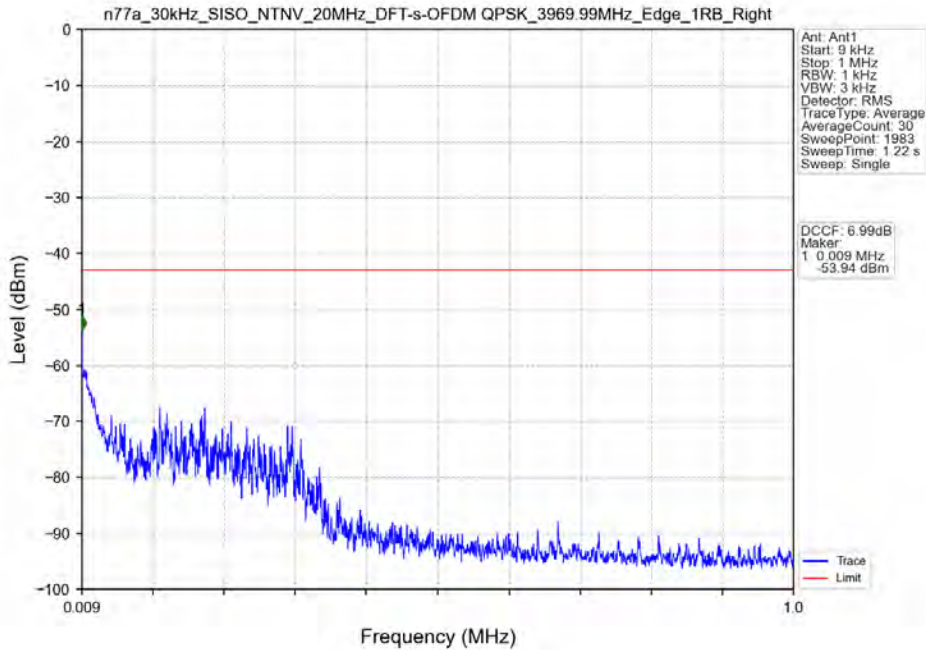
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Report No.: SZCR240100038409

Rev.: 01

Page: 416 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3969.99MHz\_Edge\_1RB\_Right



n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3969.99MHz\_Edge\_1RB\_Right



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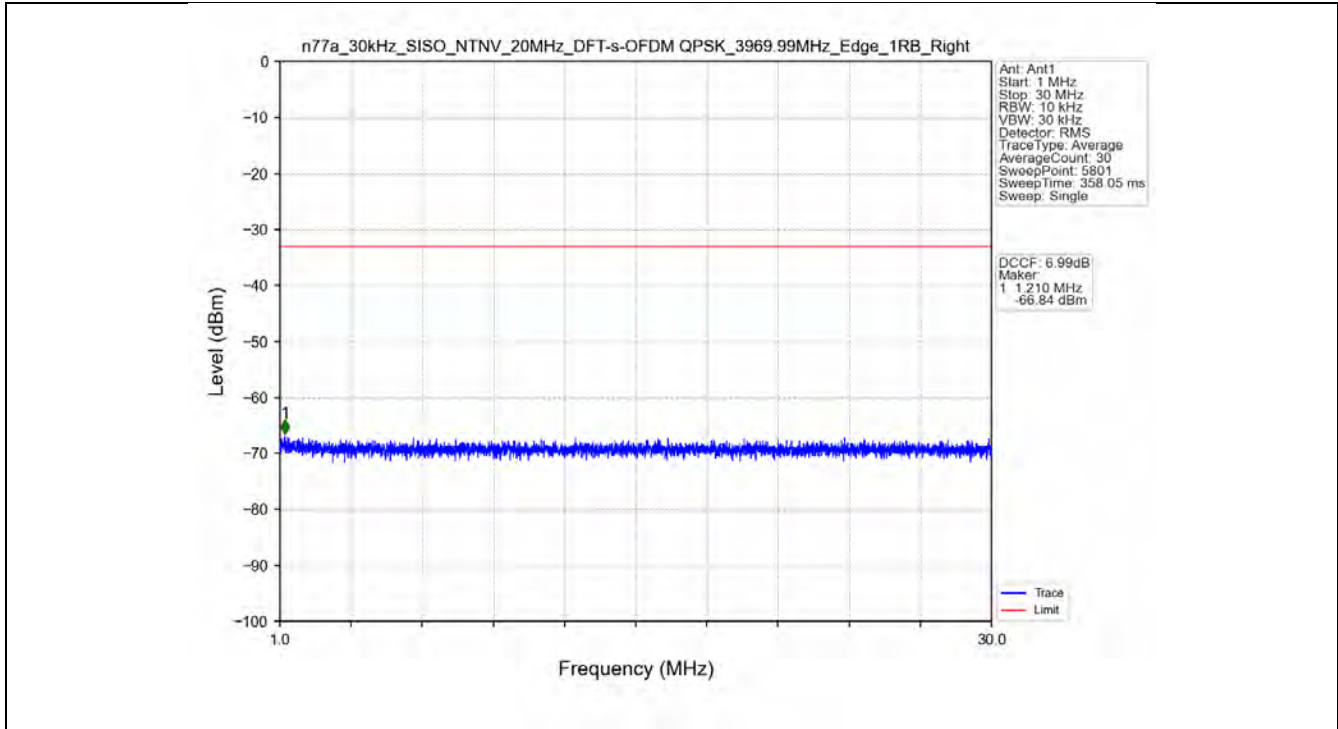


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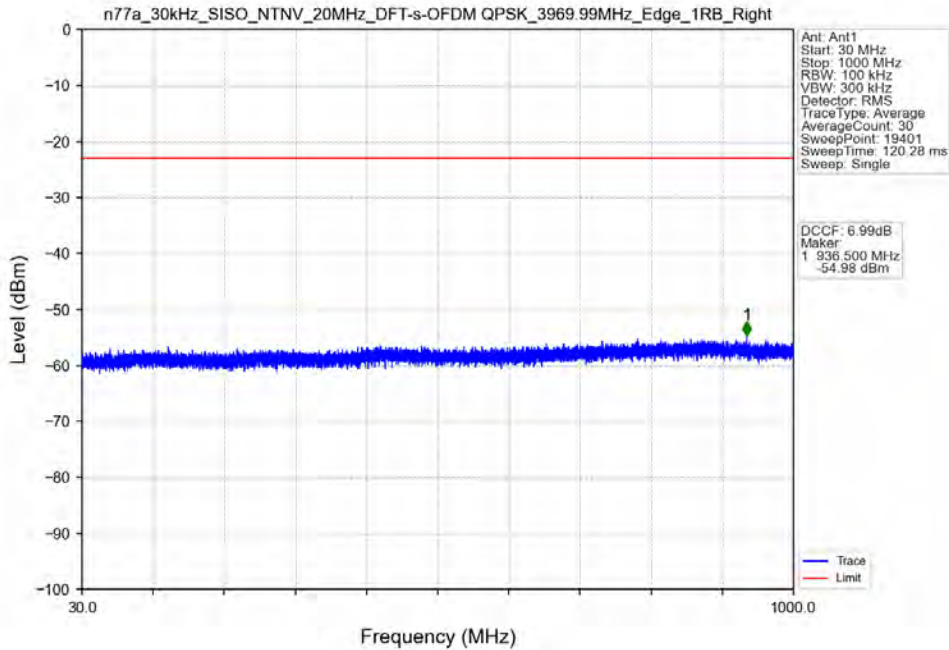
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Report No.: SZCR240100038409

Rev.: 01

Page: 418 of 973

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n77a\_30kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3969.99MHz\_Edge\_1RB\_Right



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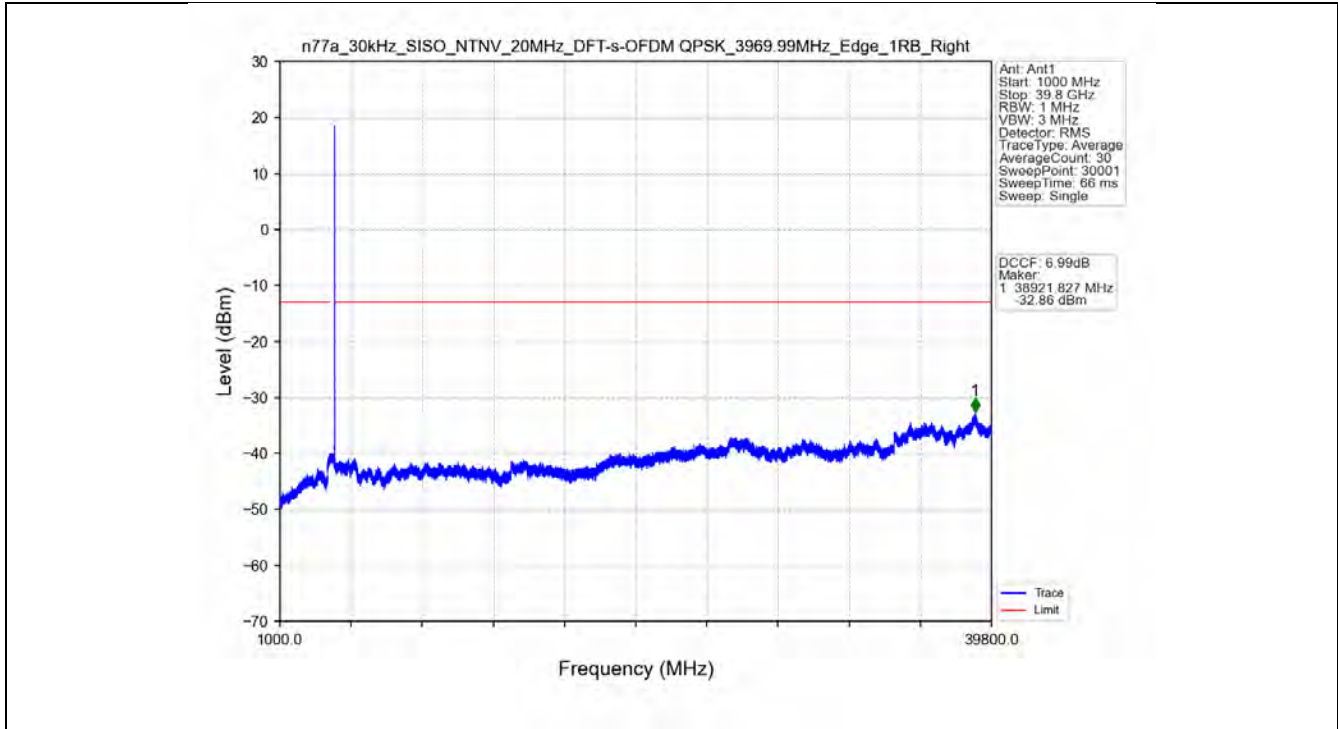


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Report No.: SZCR240100038409

Rev.: 01

Page: 420 of 973

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.2	/	1	3959.990	-30.20	-13	Pass
3979.99	3979.99	0.2	/	/	/	/	/	/
3979.99	3980.99	0.2	/	2	3980.448	-22.74	-13	Pass
3980.99	3984.99	0.5	/	3	3982.699	-23.06	-13	Pass

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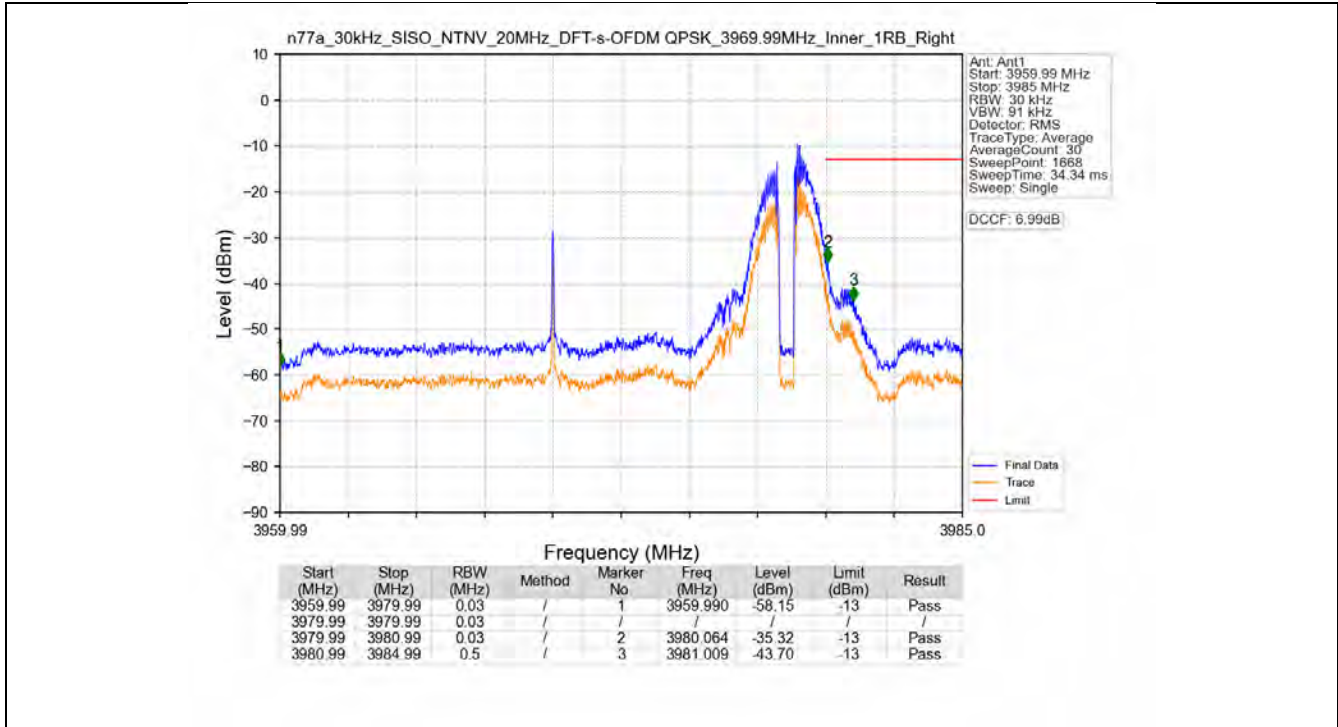


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Rev.: 01

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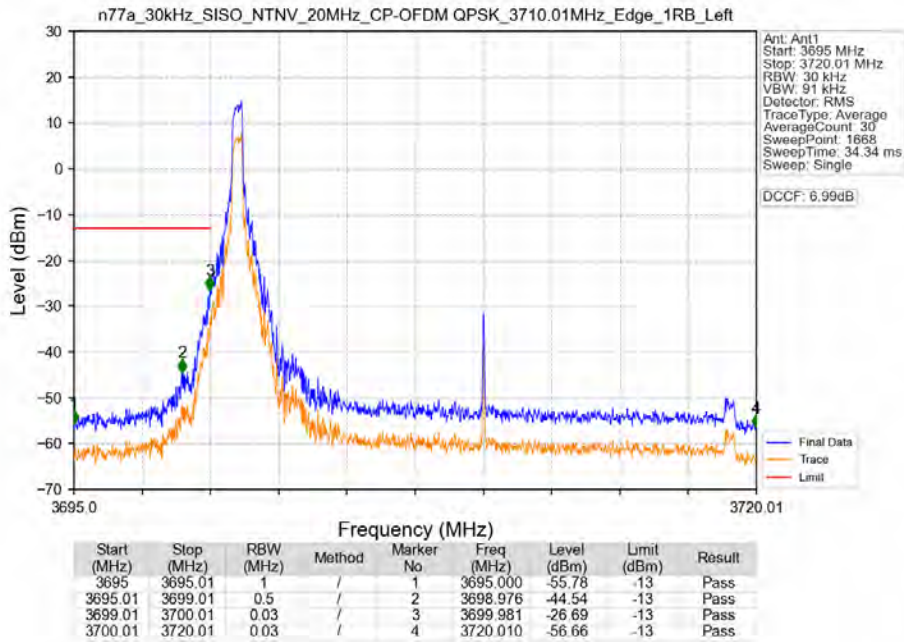
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Report No.: SZCR240100038409

Rev.: 01

Page: 422 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



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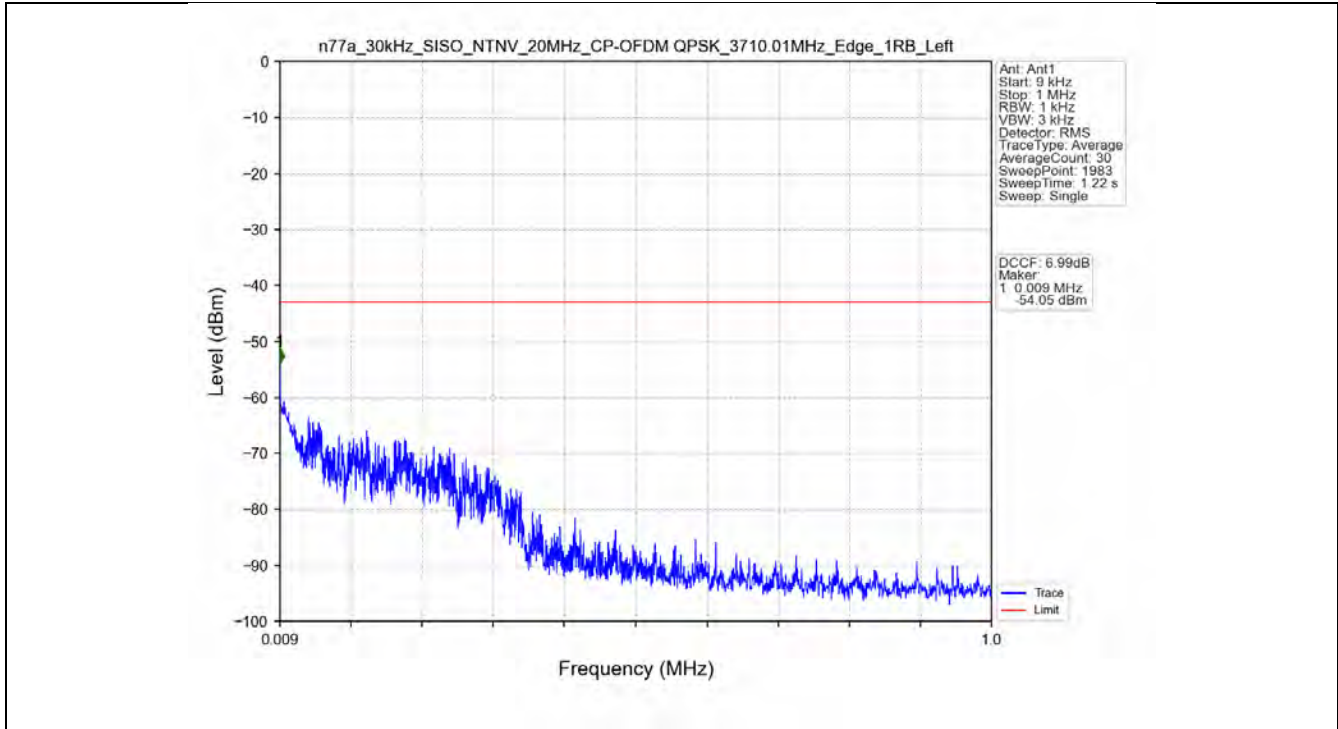


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Report No.: SZCR240100038409

Rev.: 01

Page: 423 of 973



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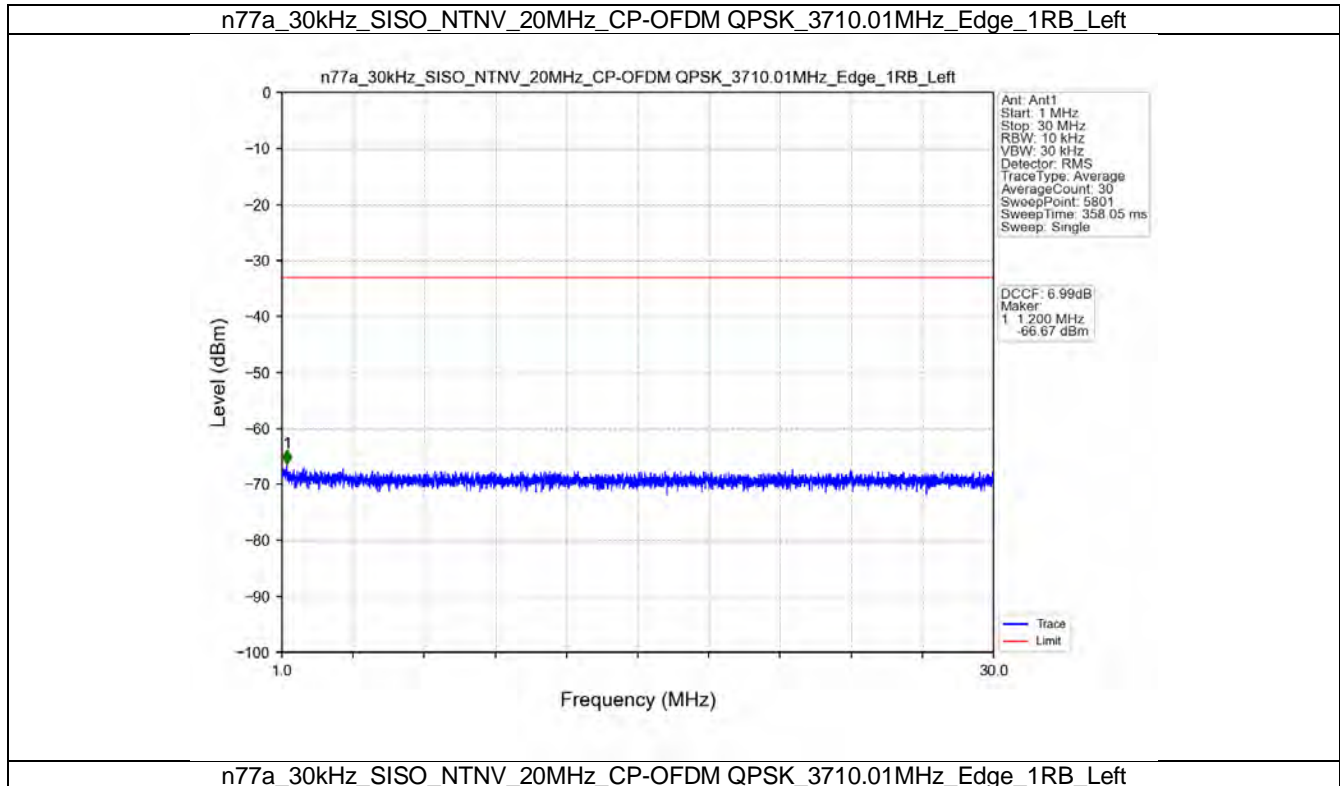


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Report No.: SZCR240100038409

Rev.: 01

Page: 424 of 973



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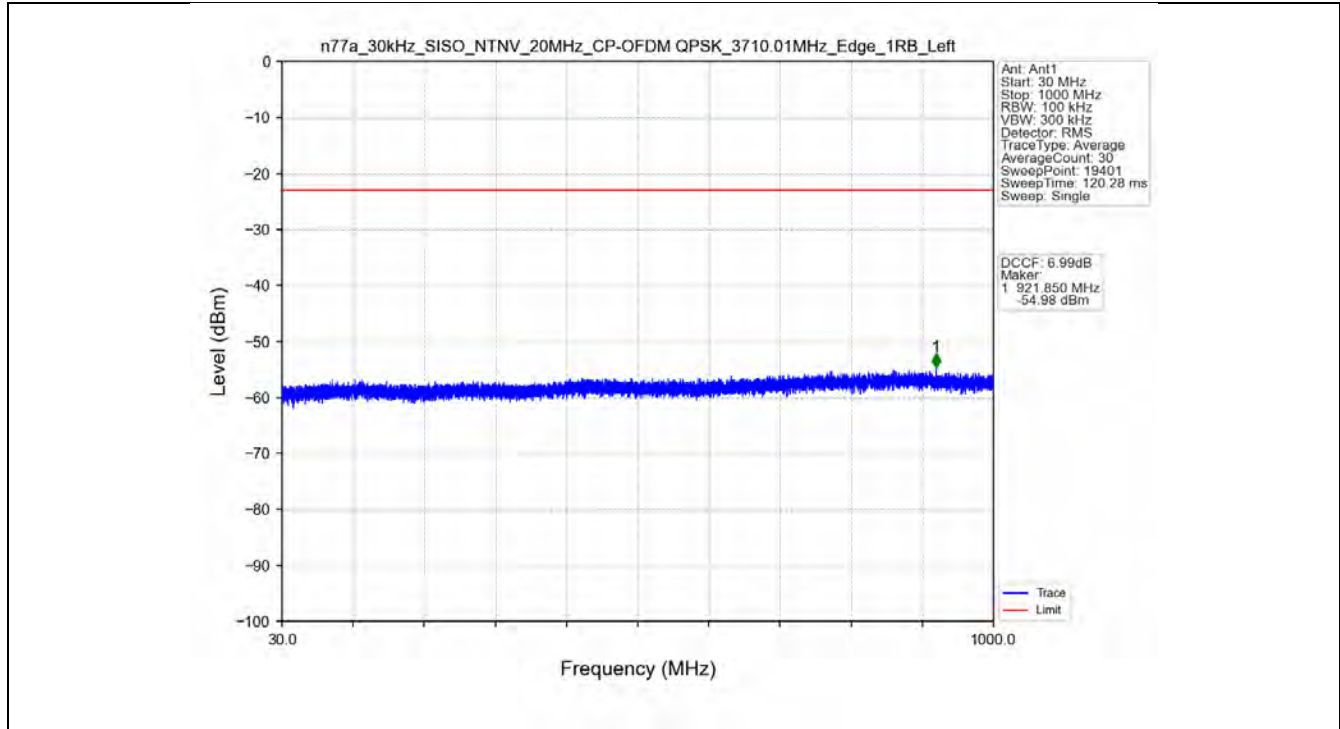


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Report No.: SZCR240100038409

Rev.: 01

Page: 425 of 973



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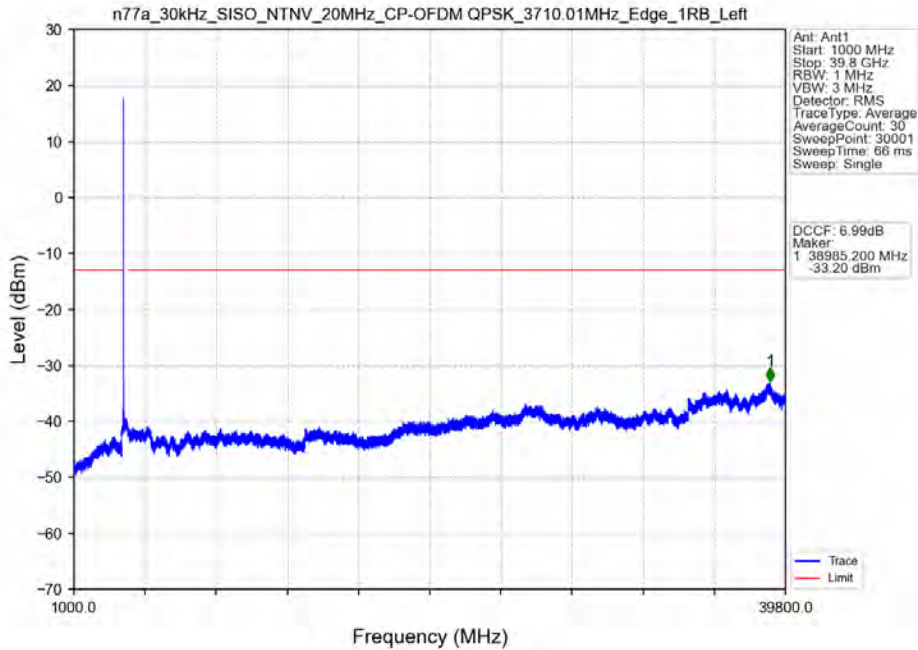
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Report No.: SZCR240100038409

Rev.: 01

Page: 426 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Outer\_Full



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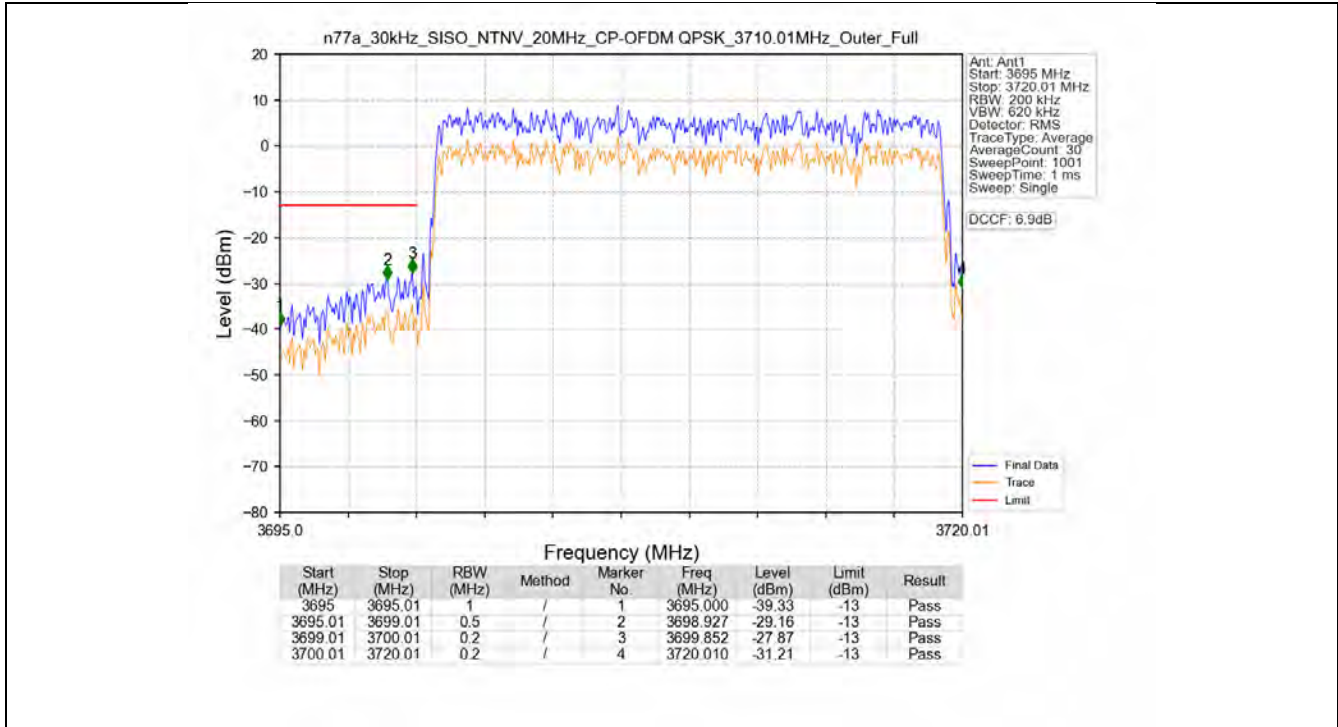


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Report No.: SZCR240100038409

Rev.: 01

Page: 427 of 973



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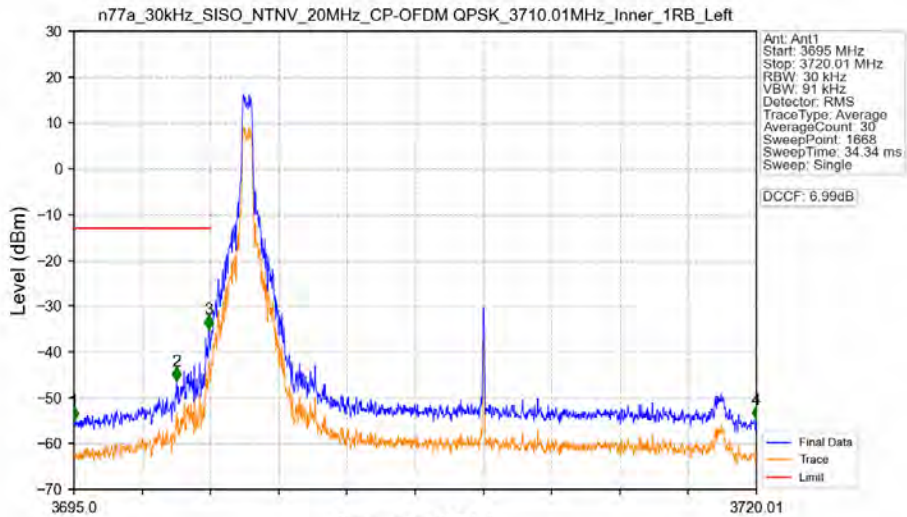
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Report No.: SZCR240100038409

Rev.: 01

Page: 428 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Inner\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.01	1	/	1	3695.000	-55.05	-13	Pass
3695.01	3699.01	0.5	/	2	3698.766	-46.35	-13	Pass
3699.01	3700.01	0.03	/	3	3699.951	-35.03	-13	Pass
3700.01	3720.01	0.03	/	4	3720.010	-54.90	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3840MHz\_Edge\_1RB\_Left



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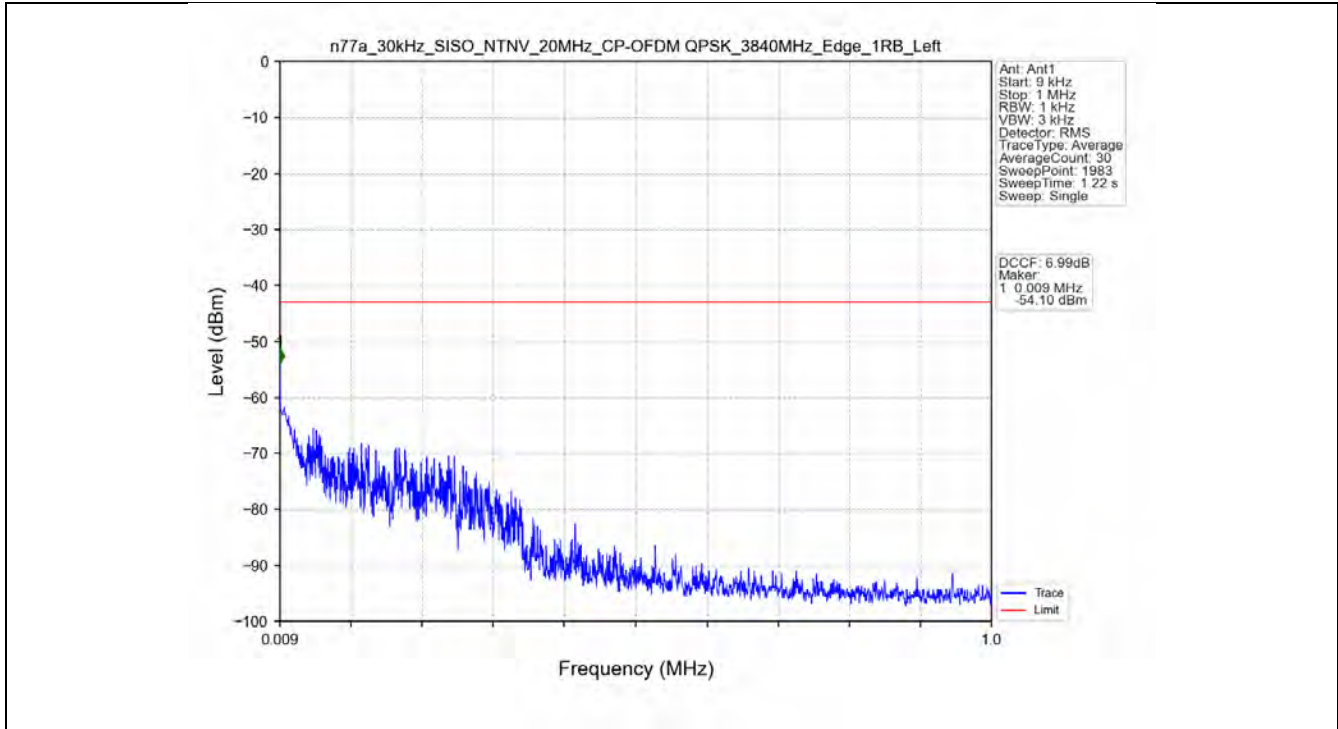


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Page: 429 of 973



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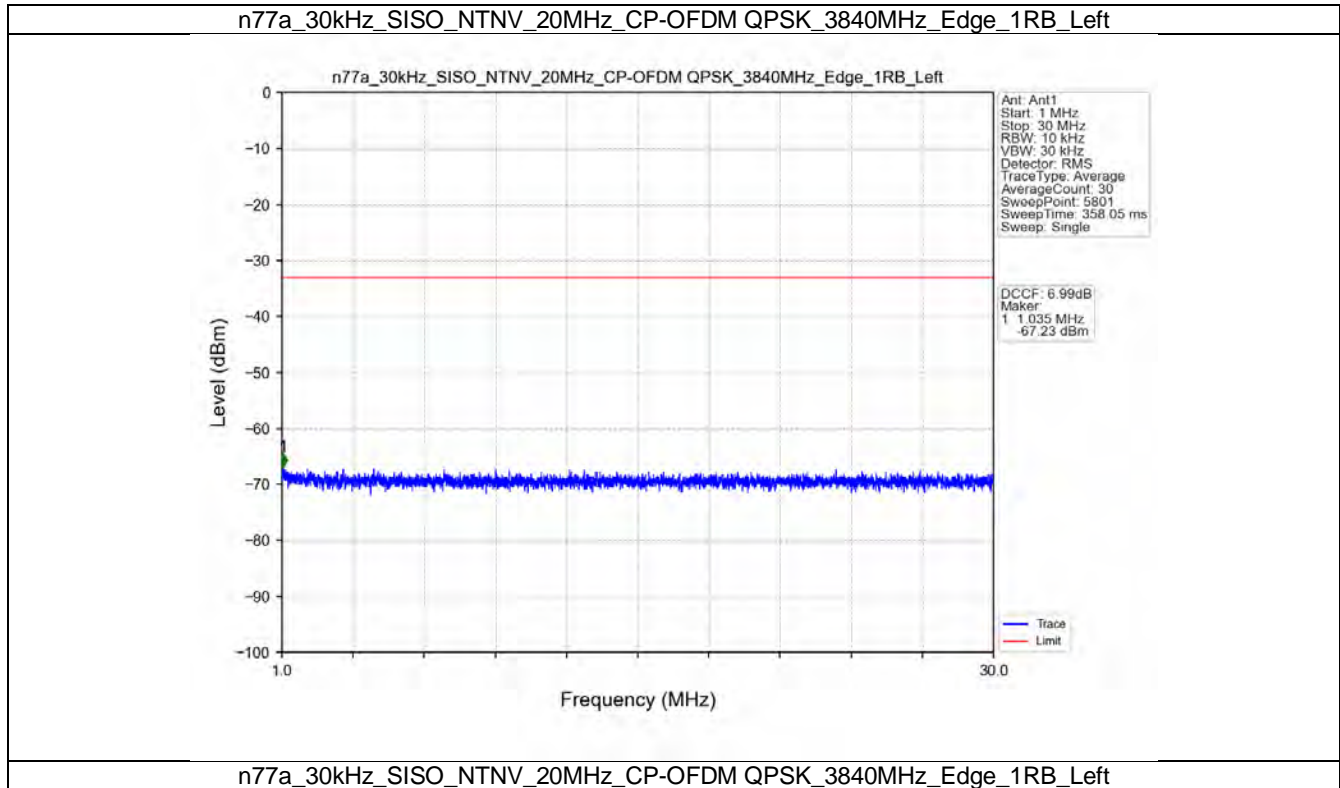


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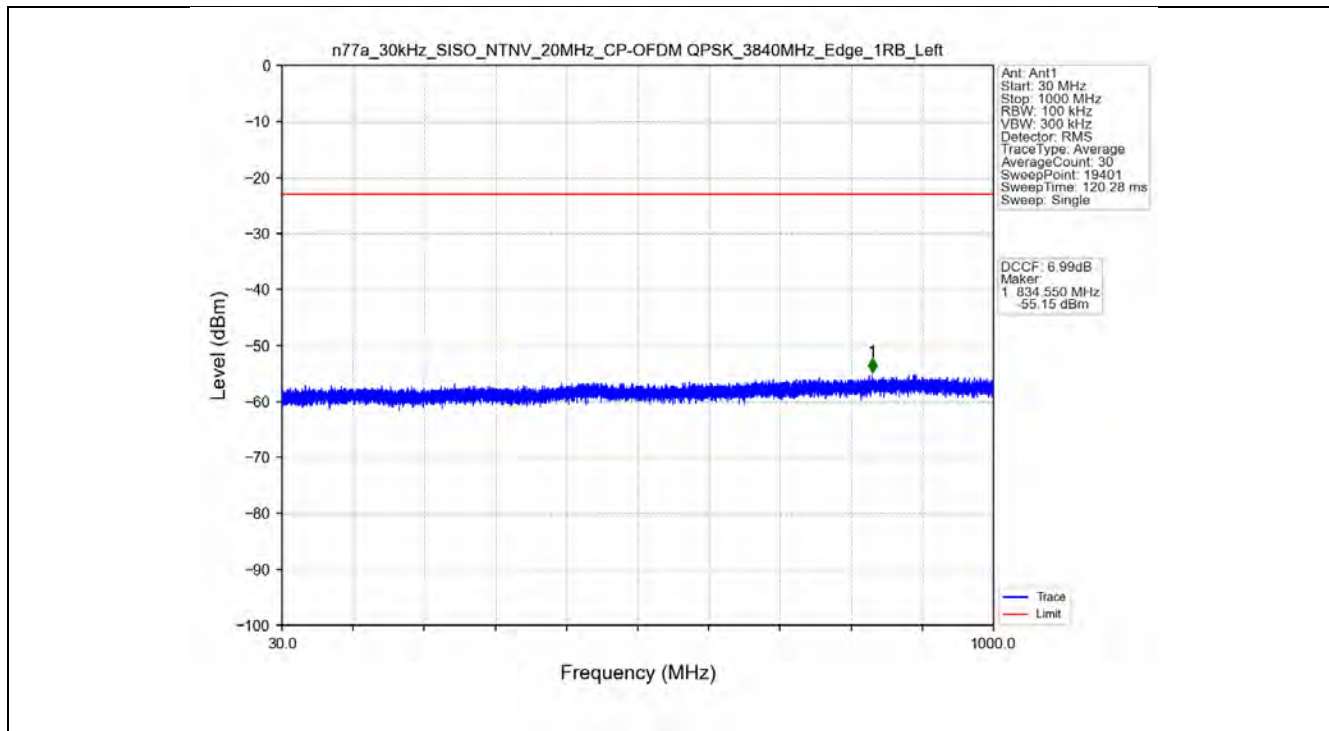
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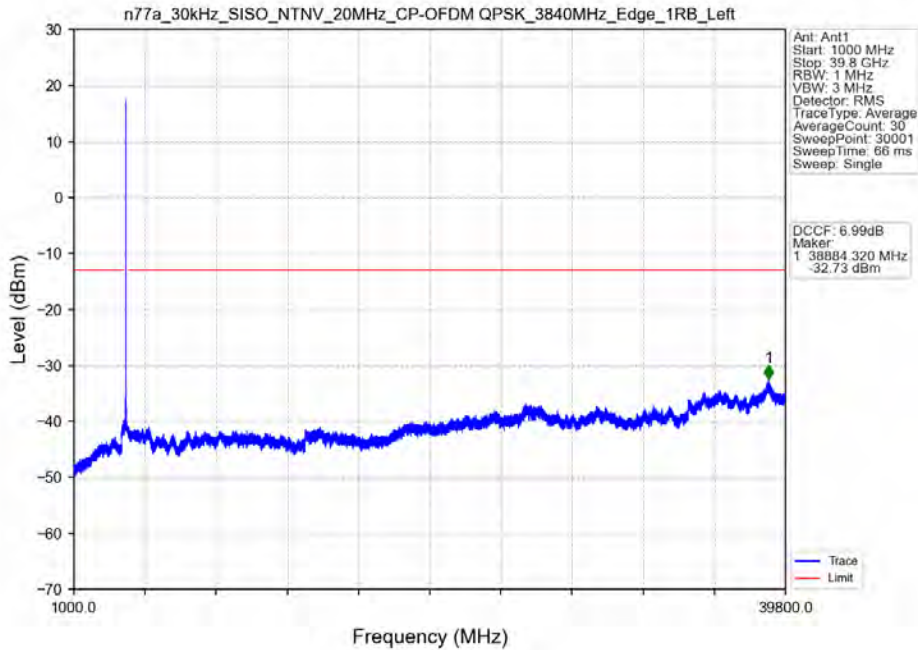
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Report No.: SZCR240100038409

Rev.: 01

Page: 432 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3840MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3969.99MHz\_Edge\_1RB\_Right



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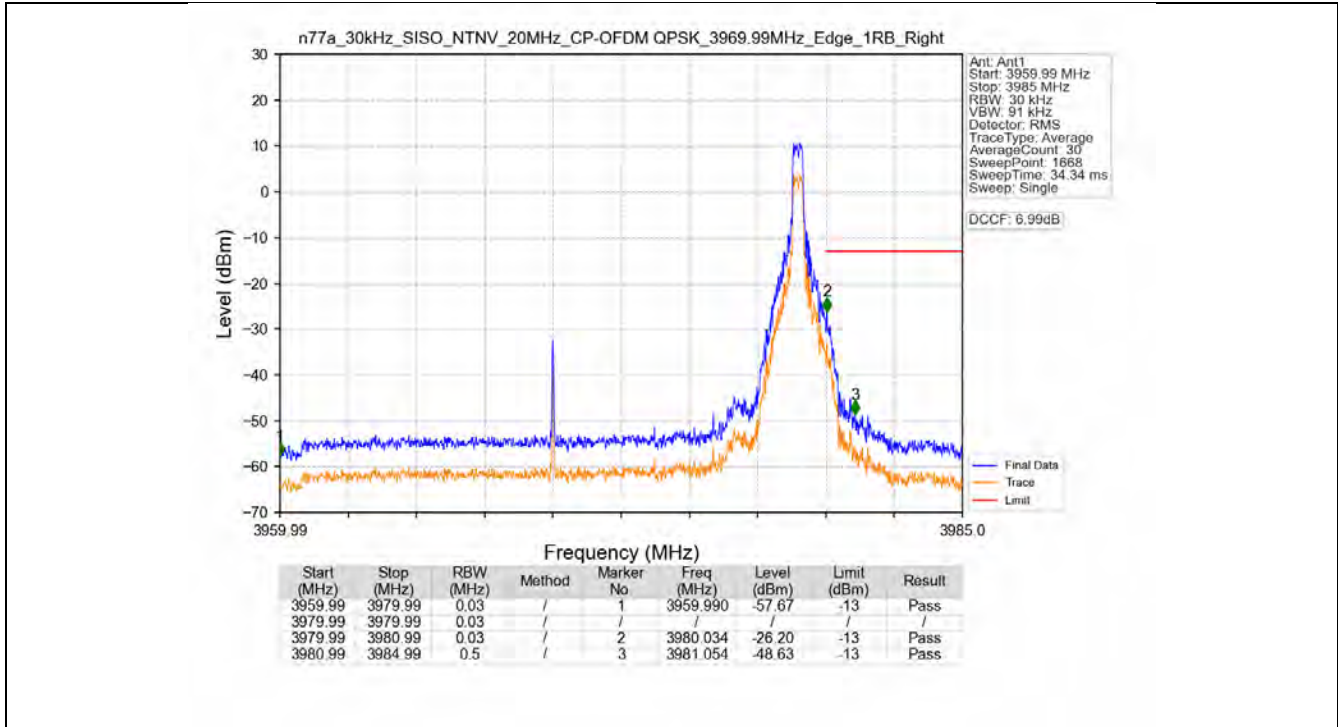


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Rev.: 01

Page: 433 of 973



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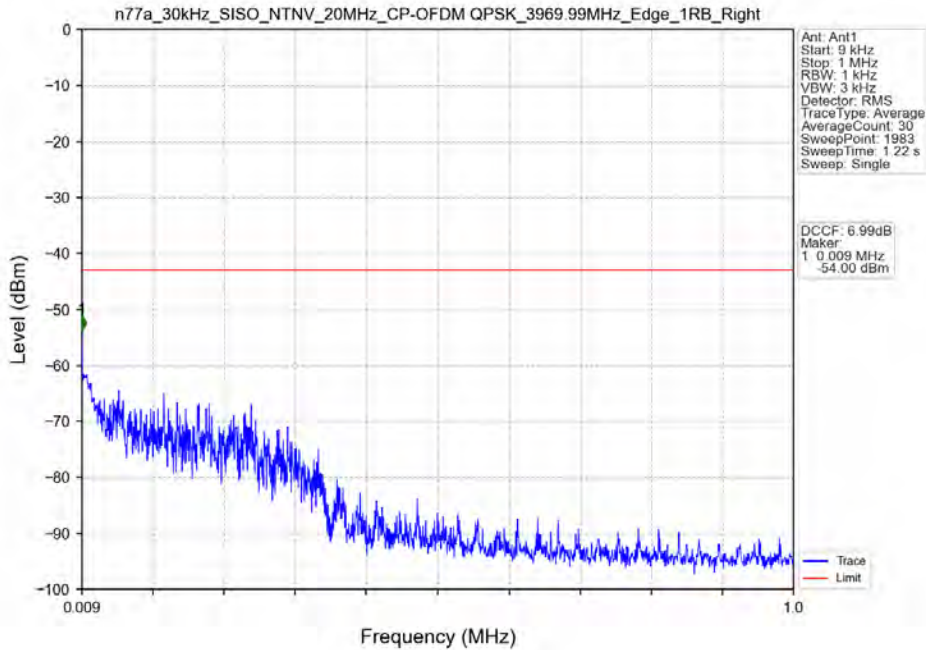
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Report No.: SZCR240100038409

Rev.: 01

Page: 434 of 973

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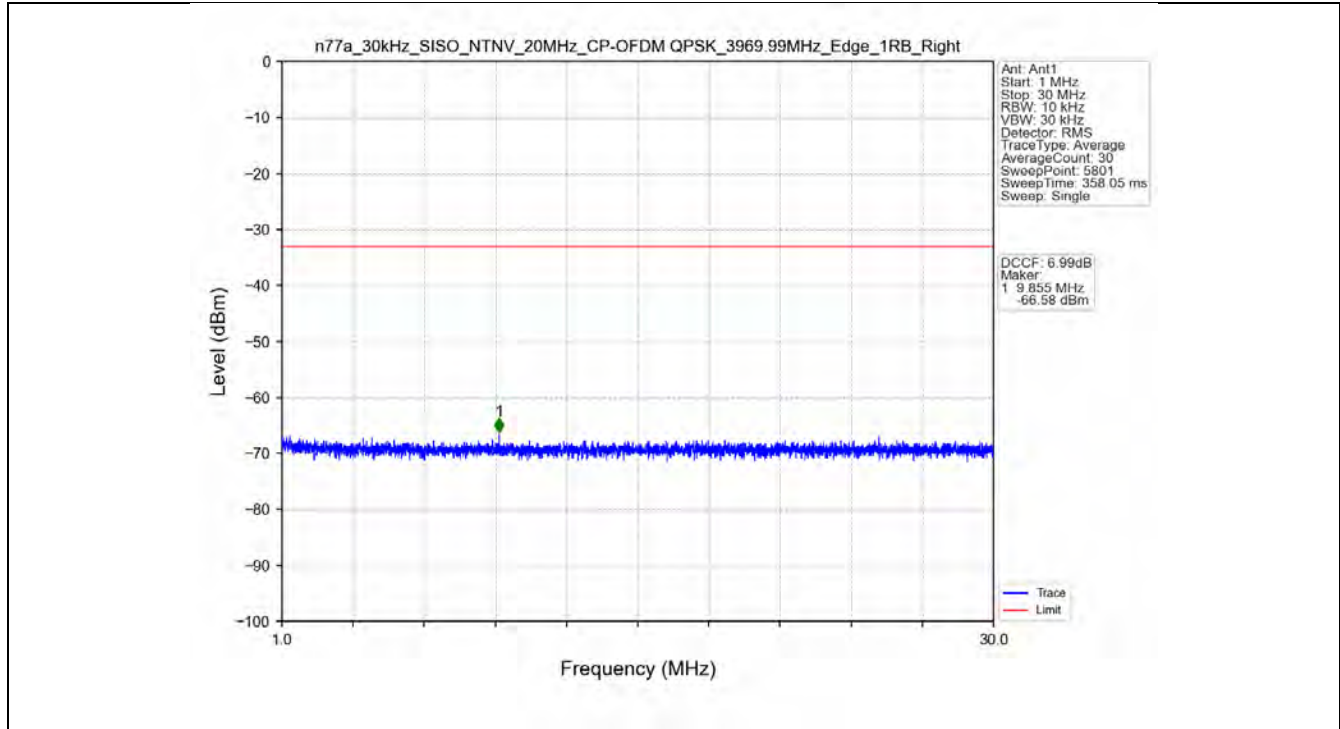


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Rev.: 01

Page: 435 of 973



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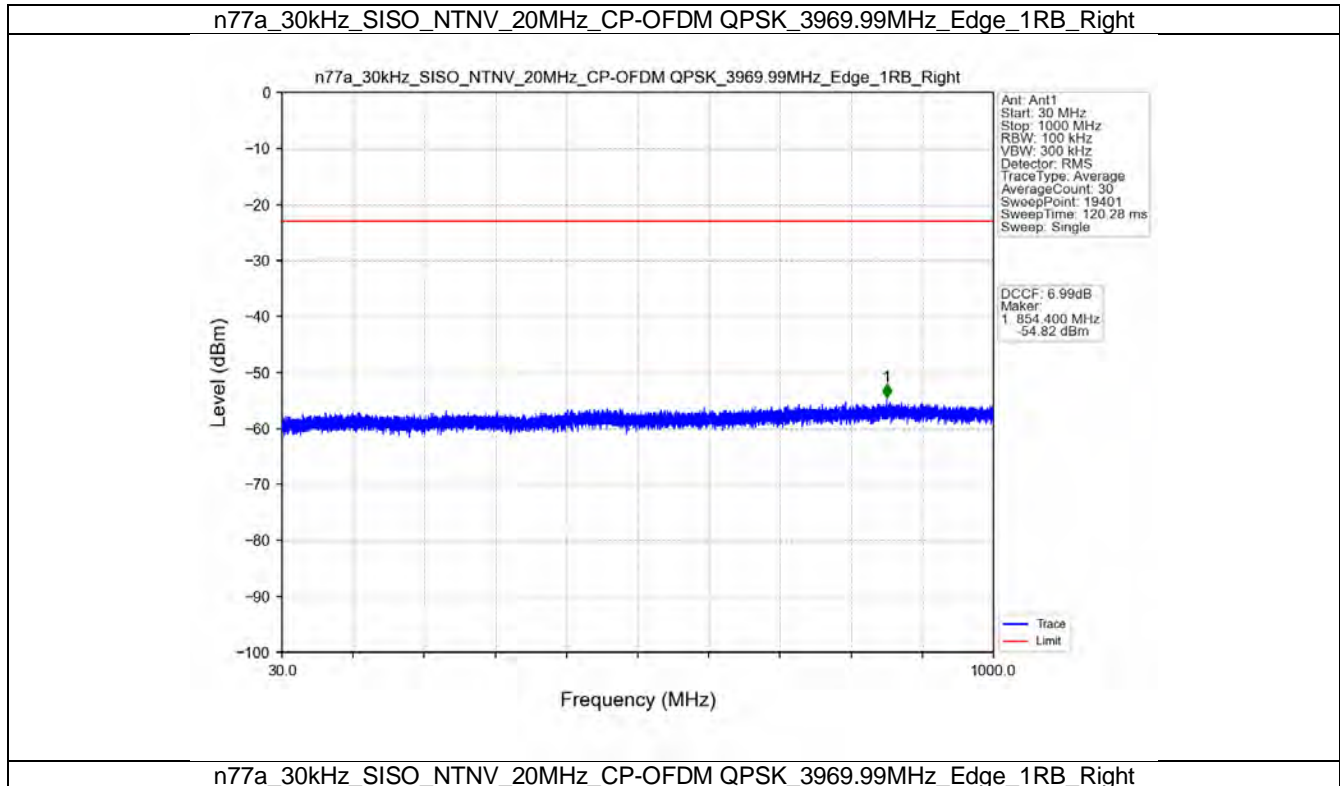


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Rev.: 01

Page: 436 of 973



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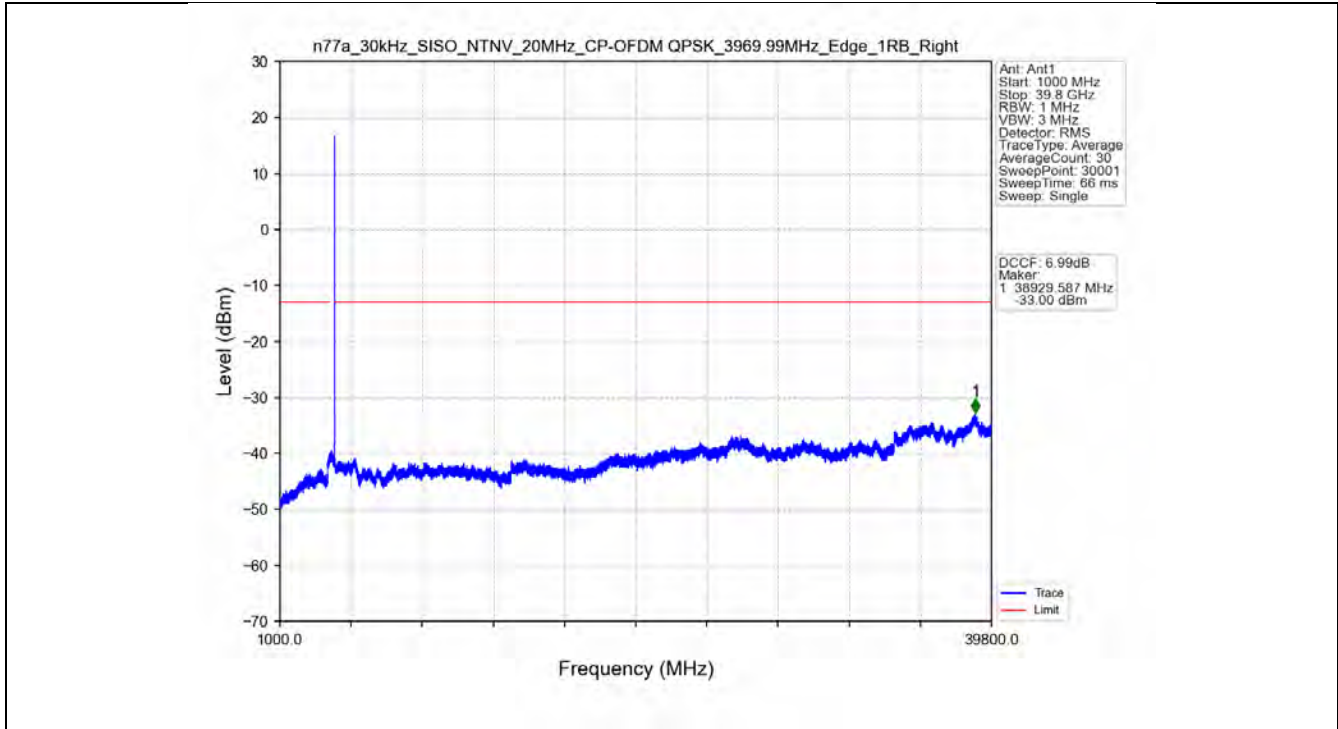


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Rev.: 01

Page: 437 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 438 of 973

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3969.99MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3959.99	3979.99	0.2	/	1	3959.990	-27.87	-13	Pass
3979.99	3979.99	0.2	/	/	/	/	/	/
3979.99	3980.99	0.2	/	2	3980.073	-22.65	-13	Pass
3980.99	3984.99	0.5	/	3	3982.174	-24.42	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3969.99MHz\_Inner\_1RB\_Right



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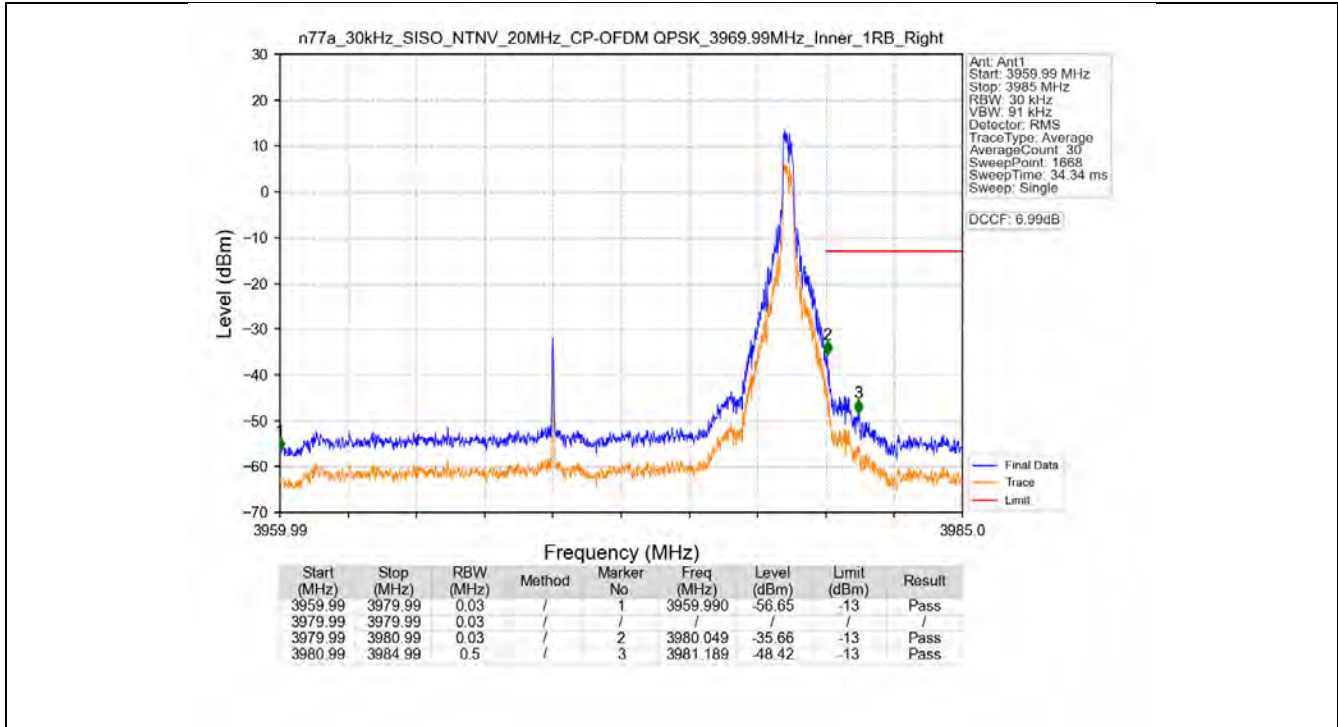


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Report No.: SZCR240100038409

Rev.: 01

Page: 439 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 440 of 973

## 5.2 30k\_SISO\_30MHz\_NTNV

### 5.2.1 Test Result

5G NR n77a SCS=30kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3715.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3964.98	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3715.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3964.98	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	3715.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3964.98	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass



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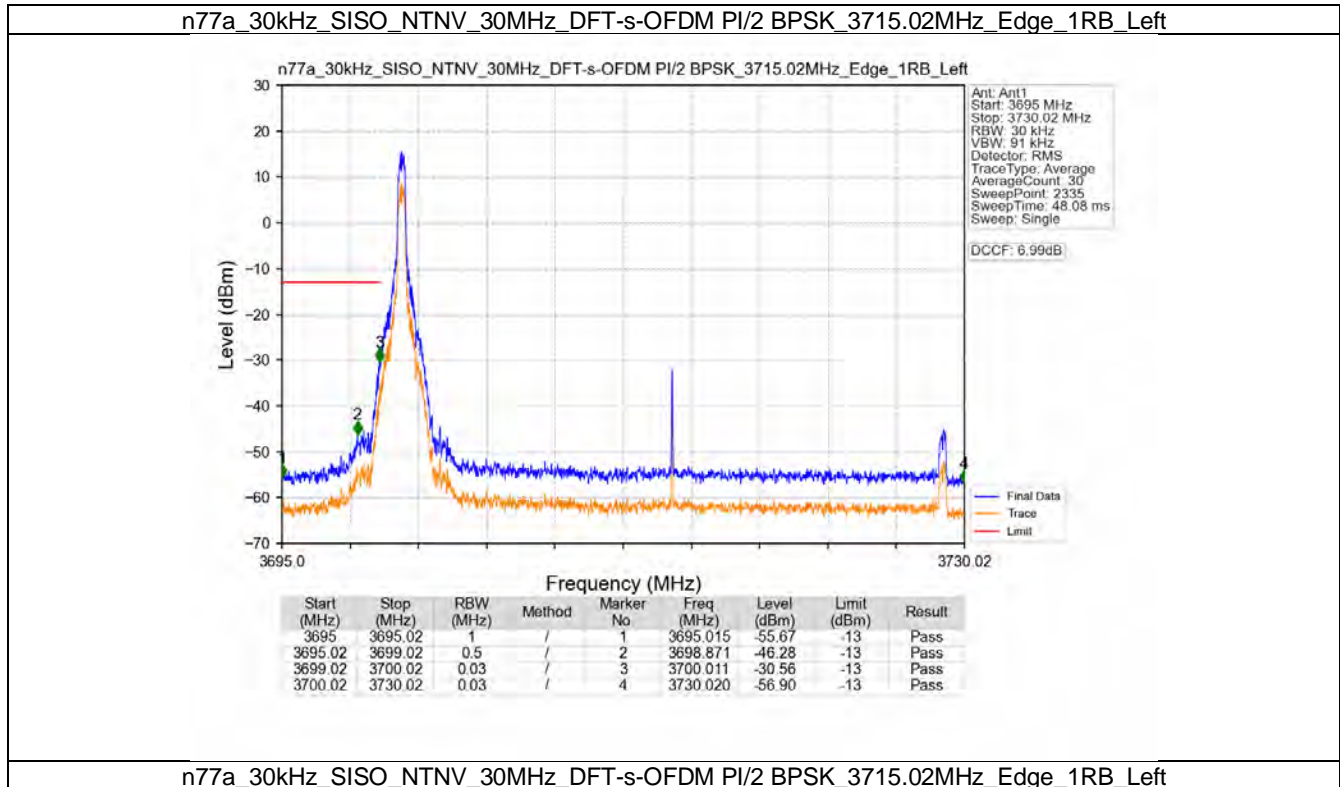
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Rev.: 01  
Page: 441 of 973

5.2.2 Test Graph



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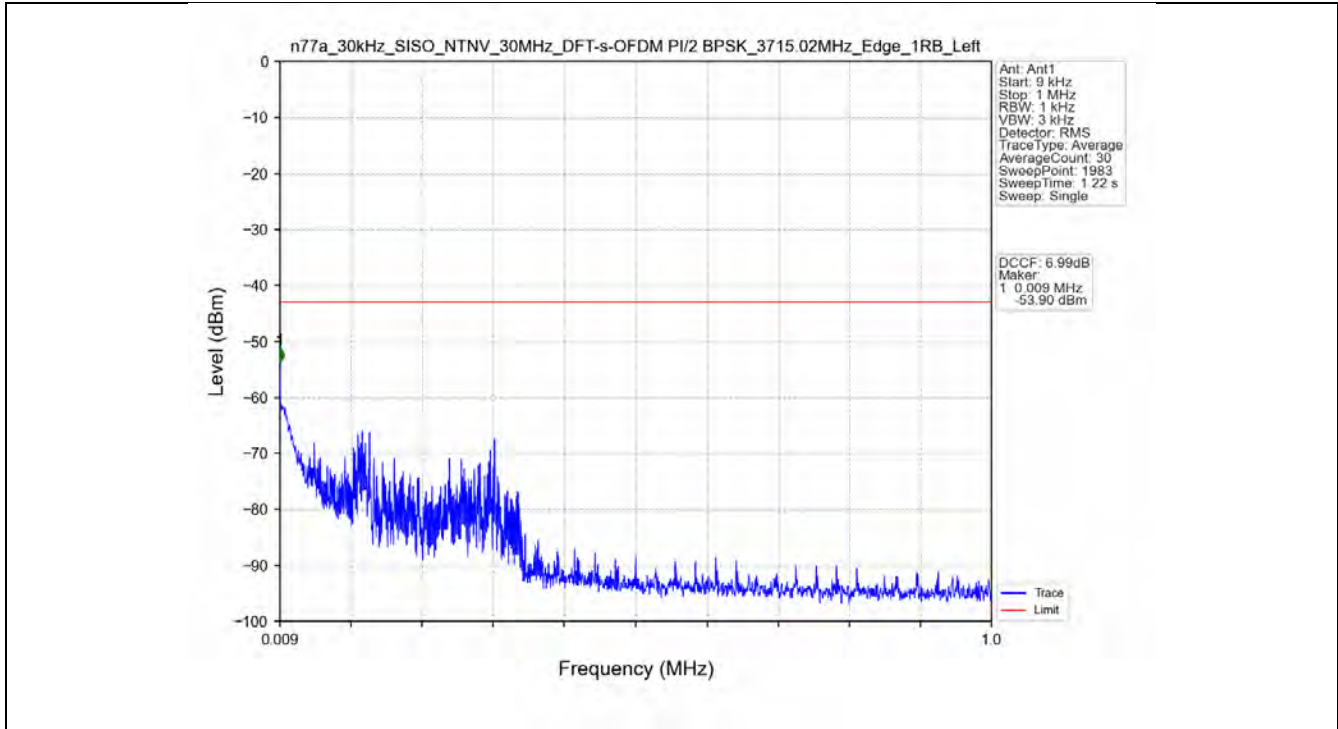


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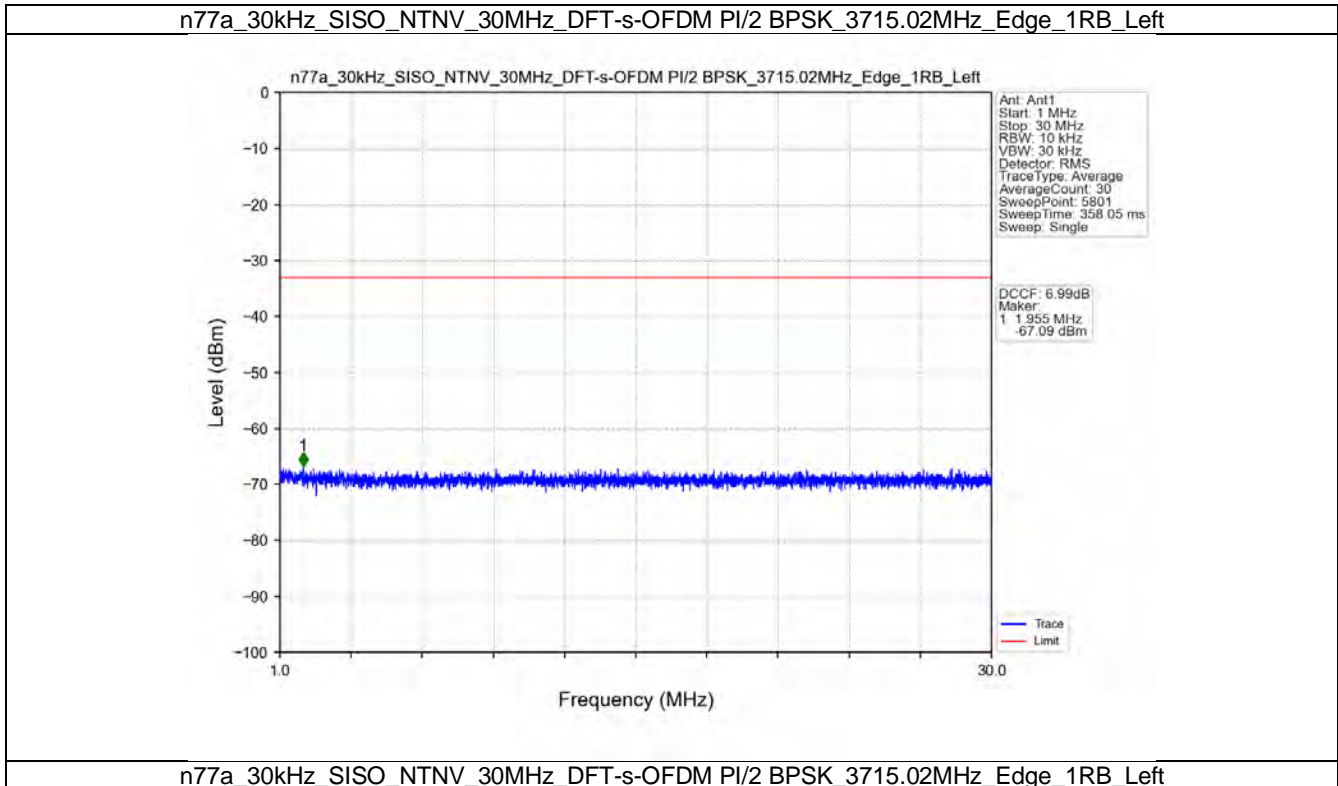


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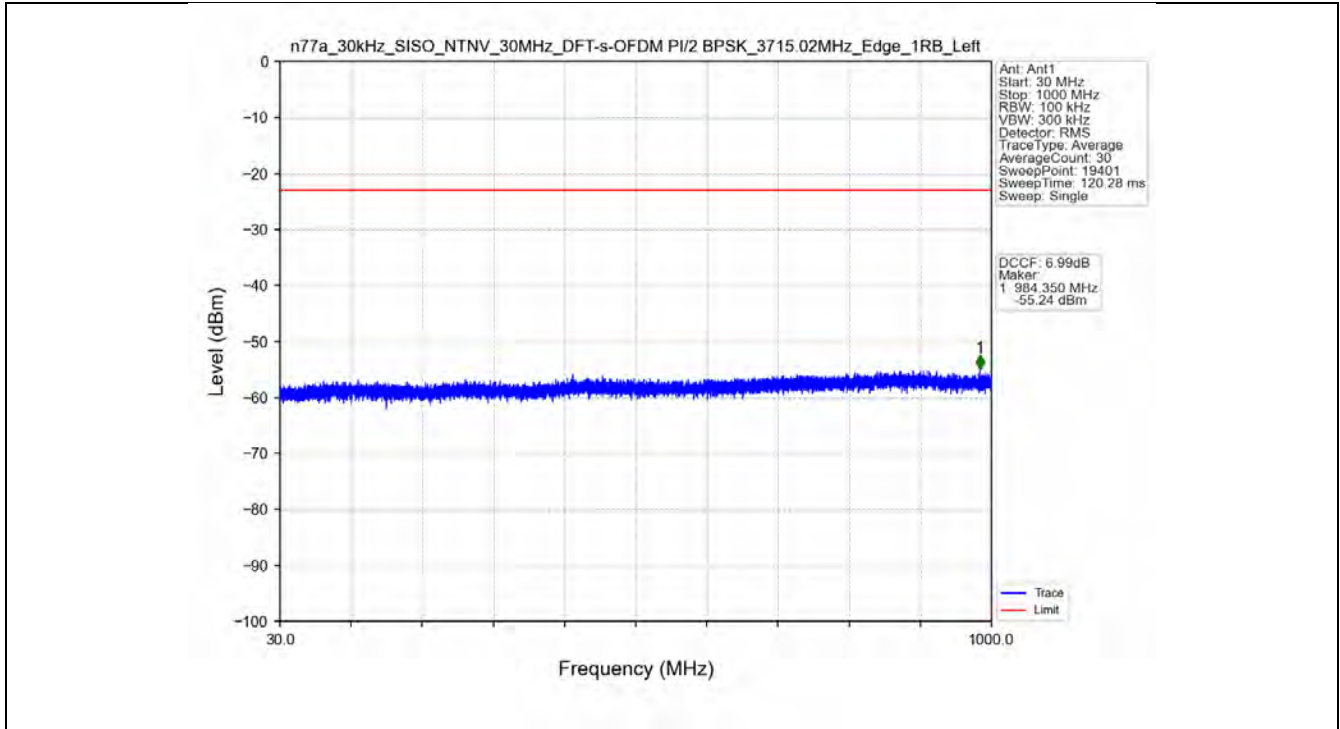


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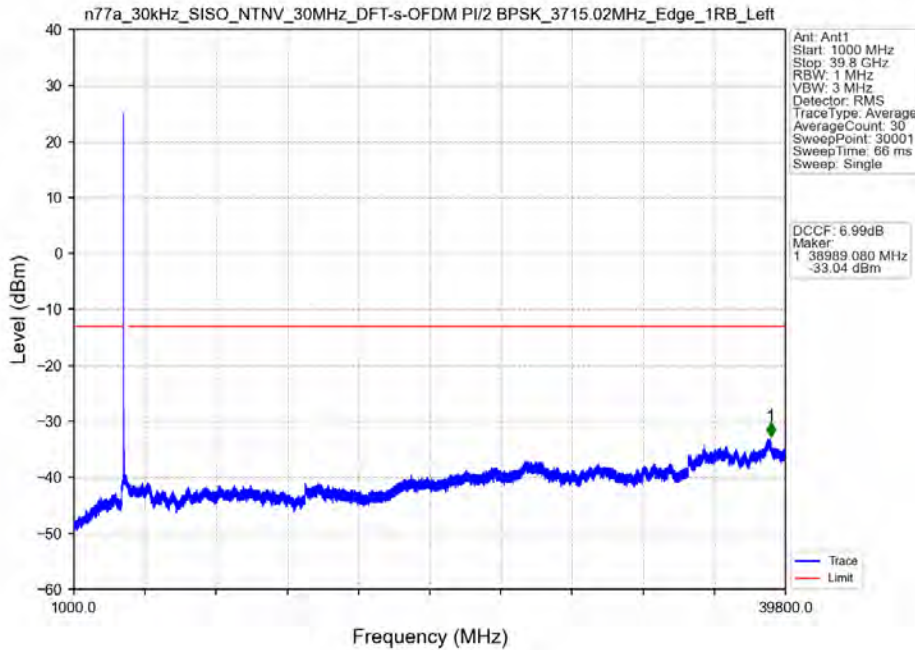
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Report No.: SZCR240100038409

Rev.: 01

Page: 445 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3715.02MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3715.02MHz\_Outer\_Full



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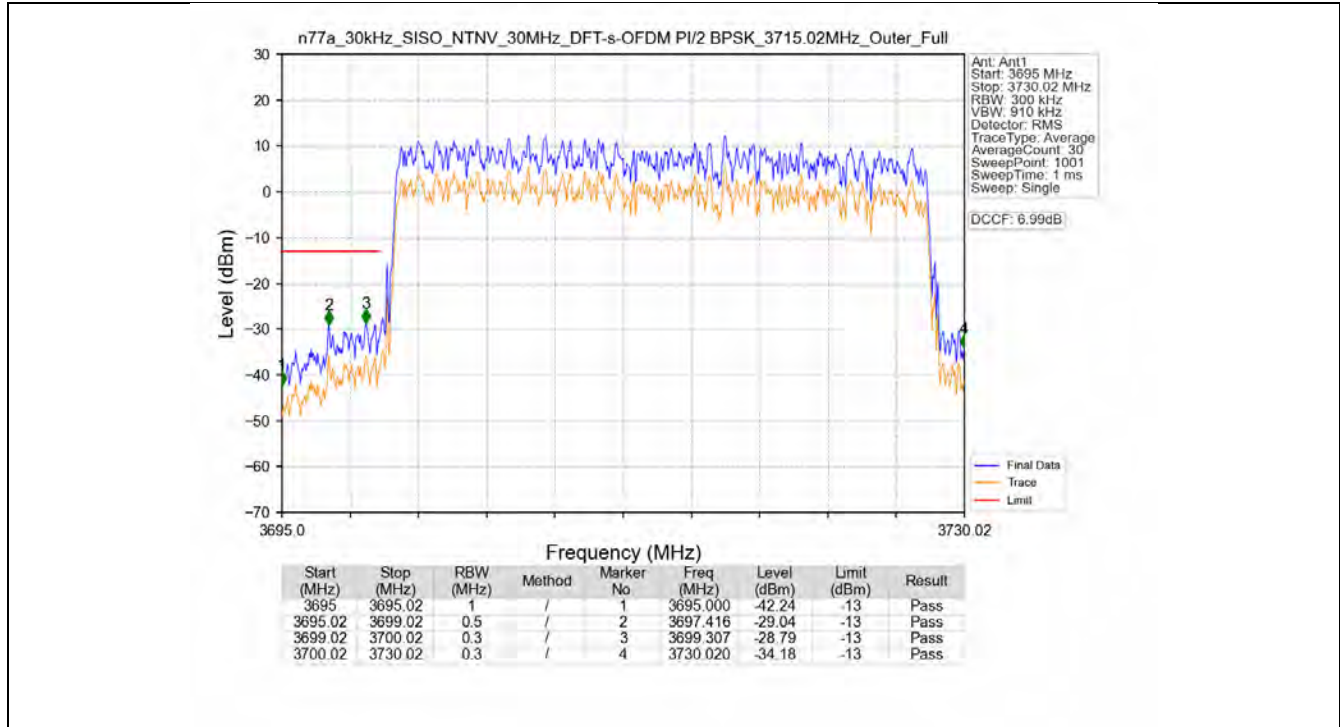


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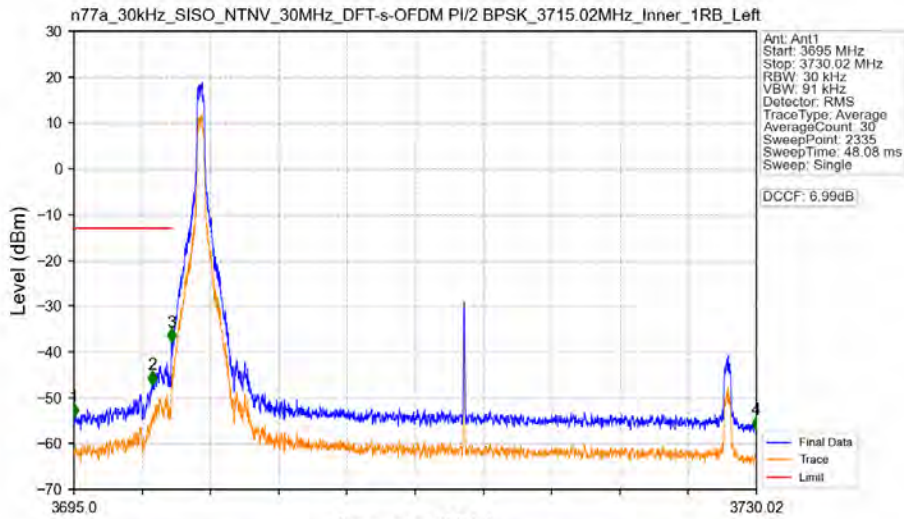
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Report No.: SZCR240100038409

Rev.: 01

Page: 447 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3715.02MHz\_Inner\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3695.02	1	/	1	3695.000	-54.21	-13	Pass
3695.02	3699.02	0.5	/	2	3699.006	-47.17	-13	Pass
3699.02	3700.02	0.03	/	3	3700.011	-37.86	-13	Pass
3700.02	3730.02	0.03	/	4	3730.020	-57.03	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3840MHz\_Edge\_1RB\_Left



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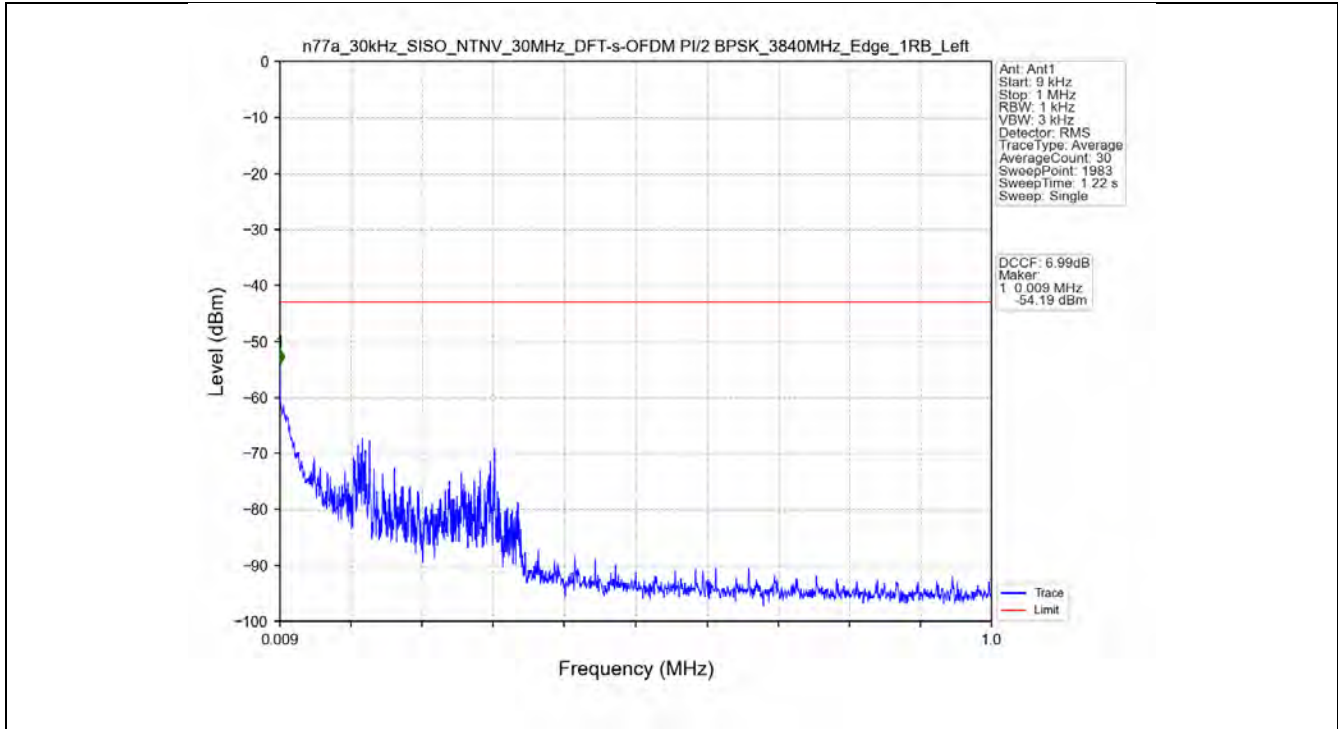


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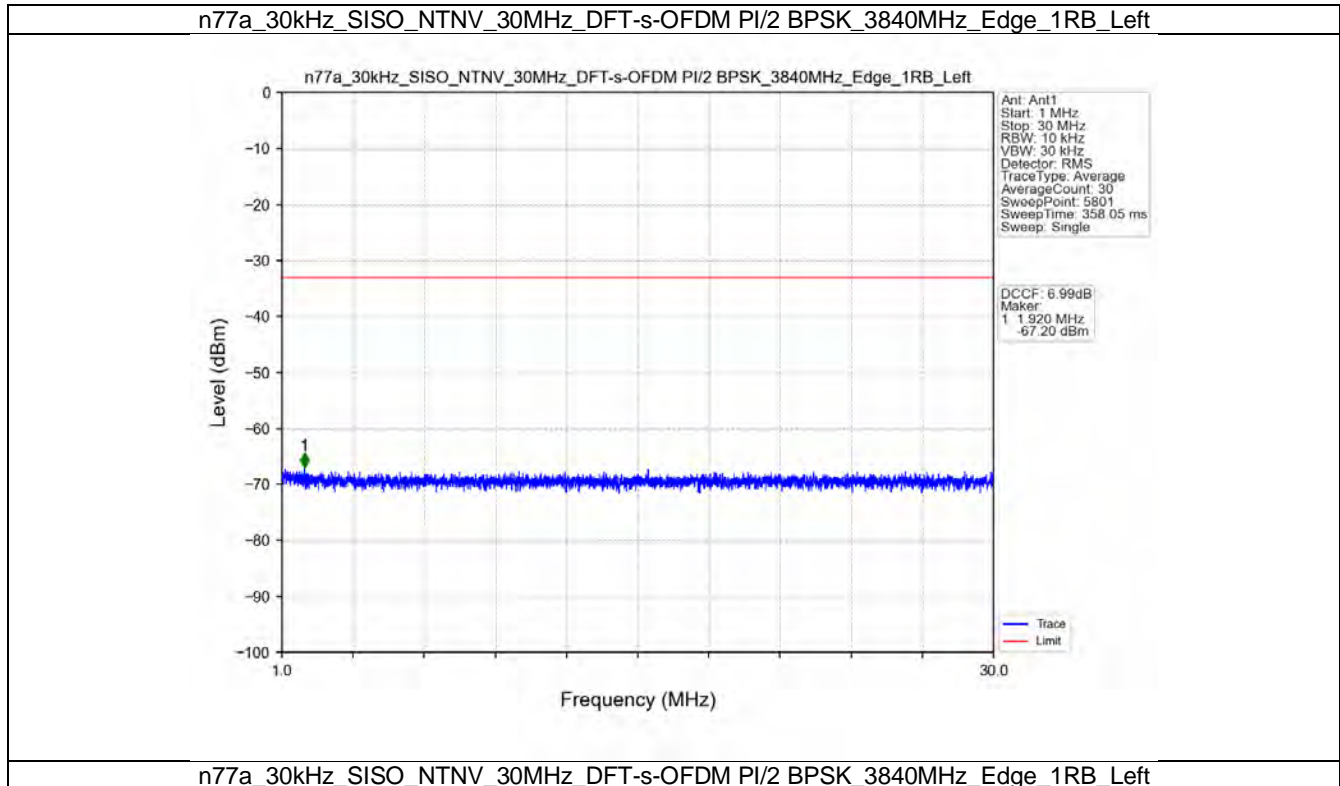


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Report No.: SZCR240100038409

Rev.: 01

Page: 449 of 973



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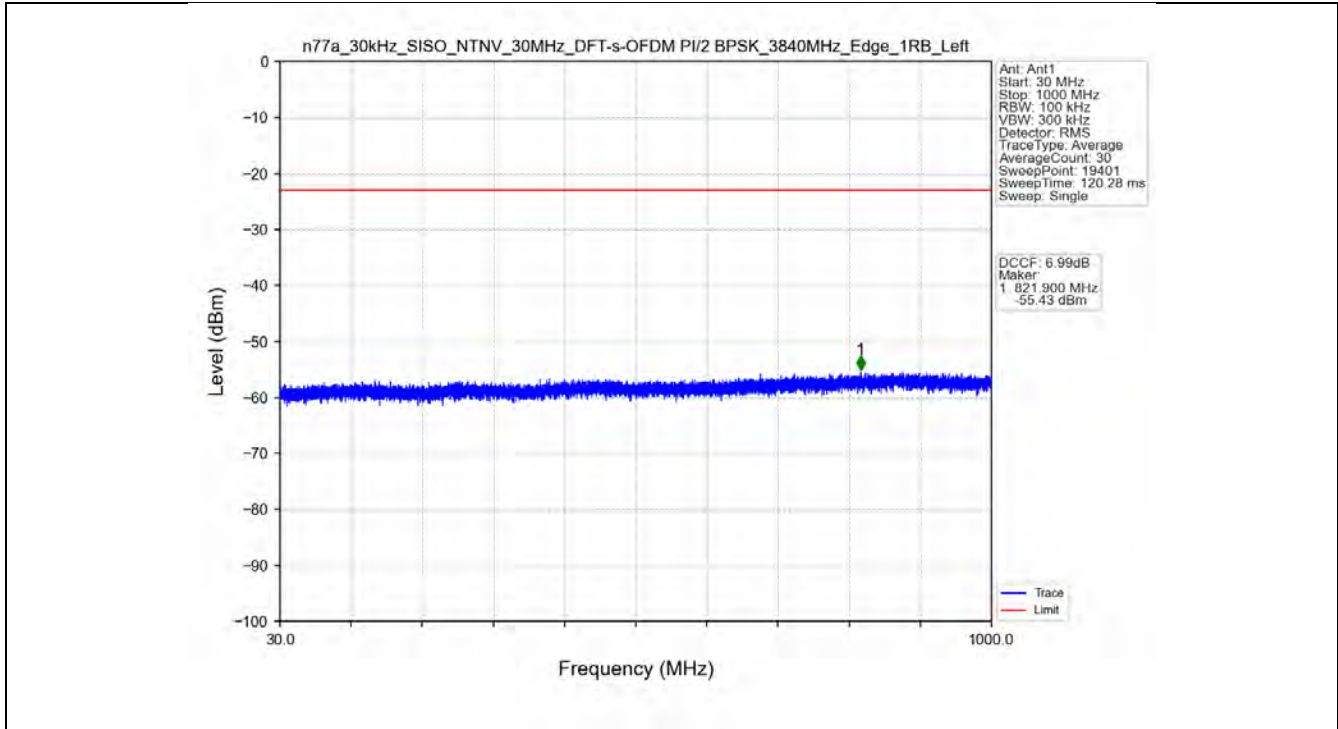


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Report No.: SZCR240100038409

Rev.: 01

Page: 450 of 973



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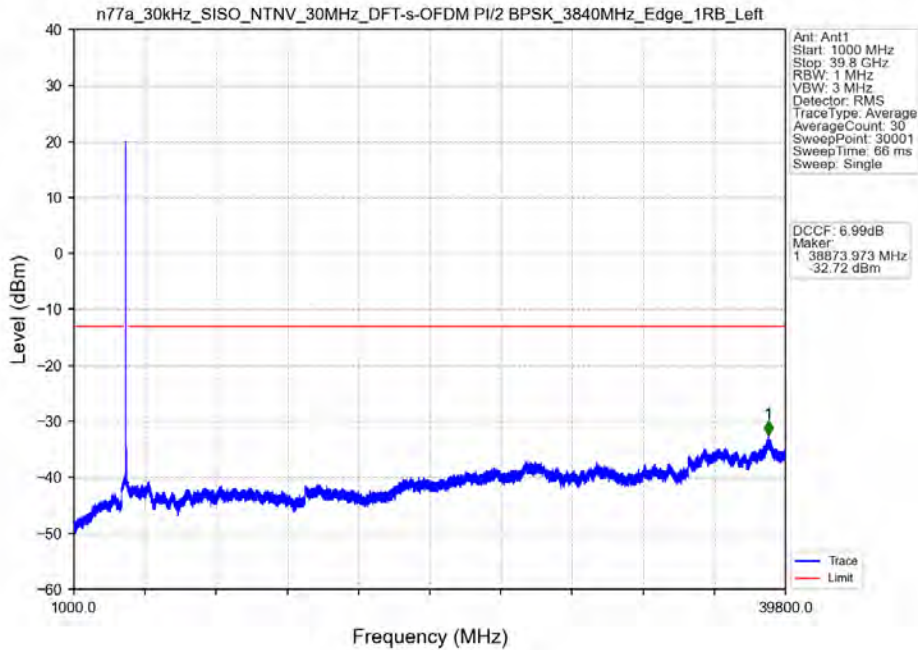
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Report No.: SZCR240100038409

Rev.: 01

Page: 451 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3840MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3964.98MHz\_Edge\_1RB\_Right



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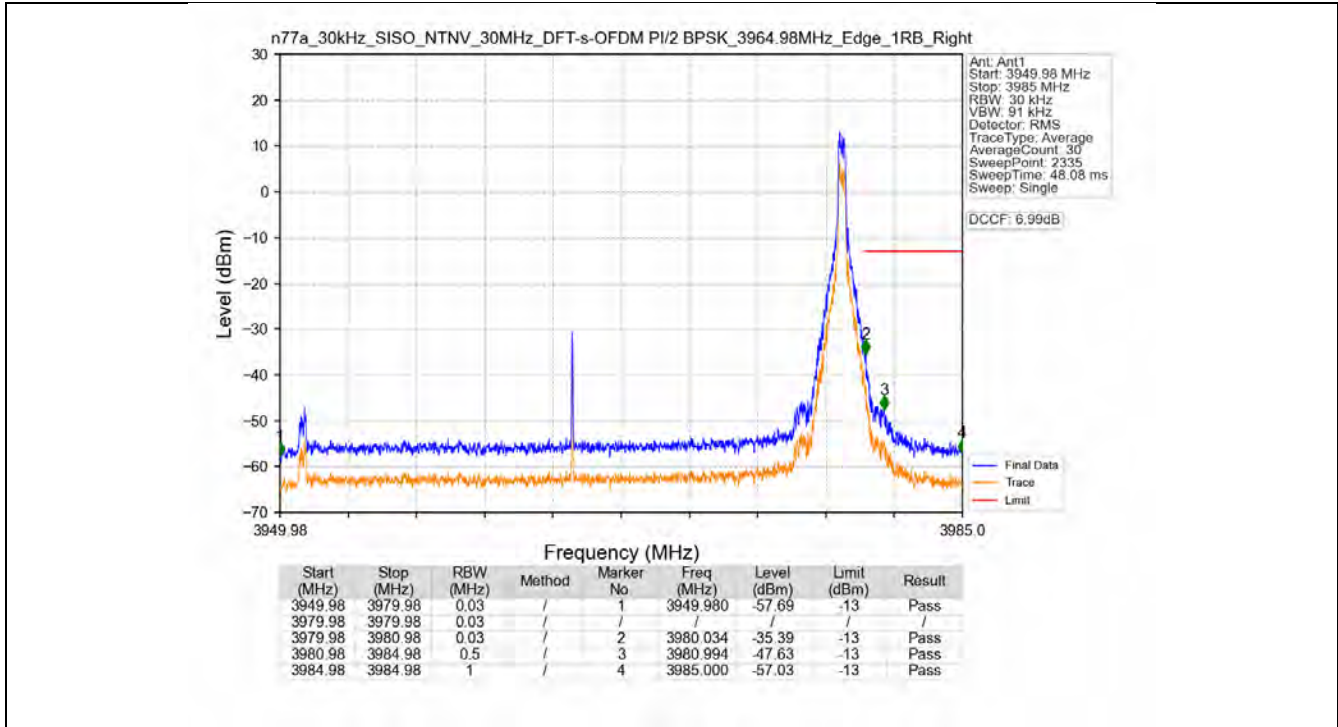


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Report No.: SZCR240100038409

Rev.: 01

Page: 452 of 973



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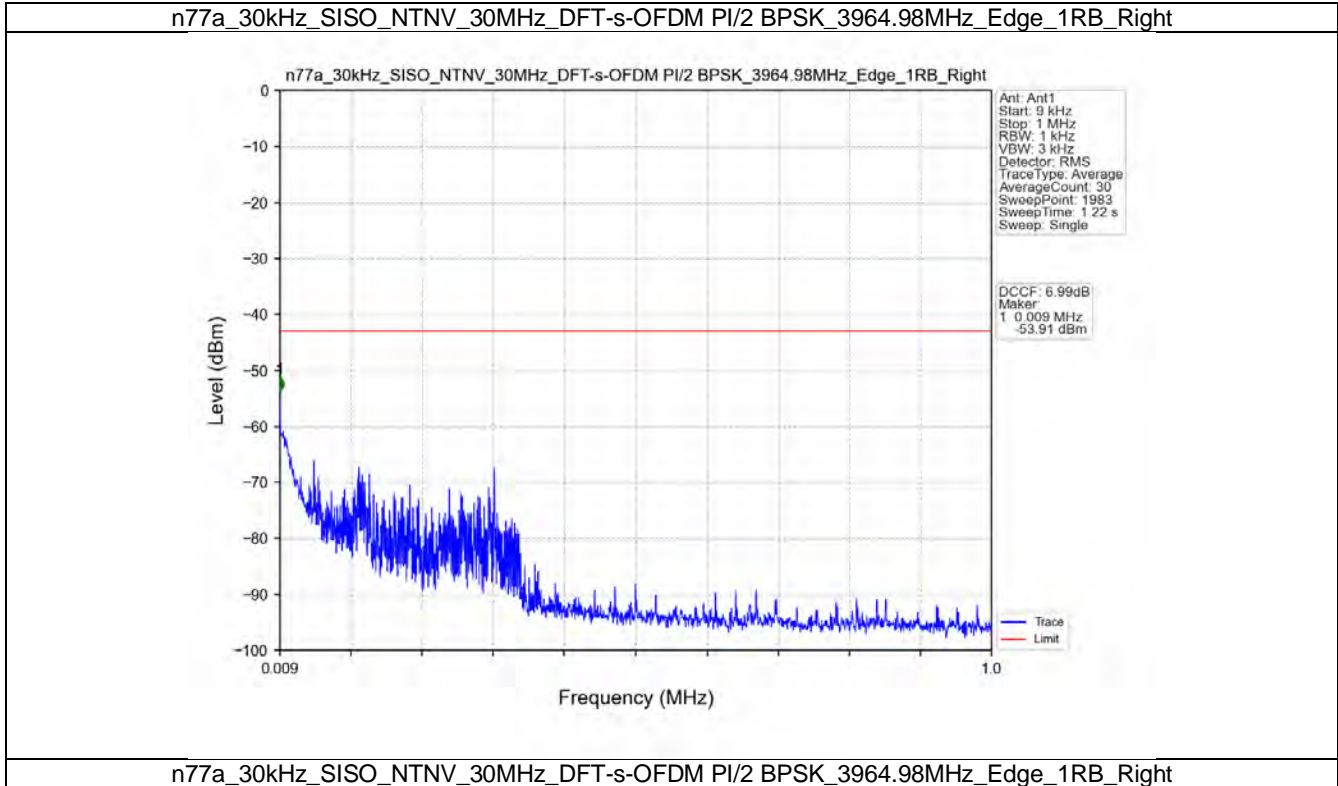


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Report No.: SZCR240100038409

Rev.: 01

Page: 453 of 973



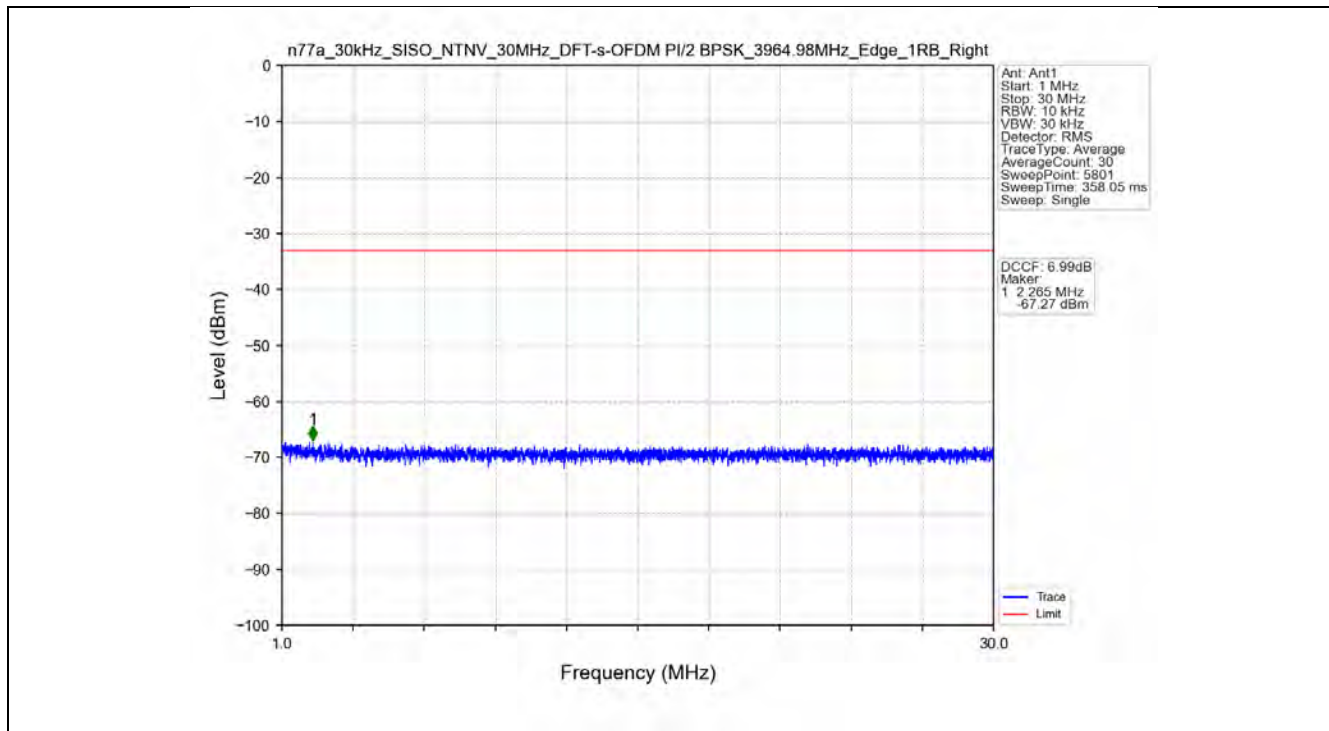
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 Rev.: 01  
 Page: 454 of 973



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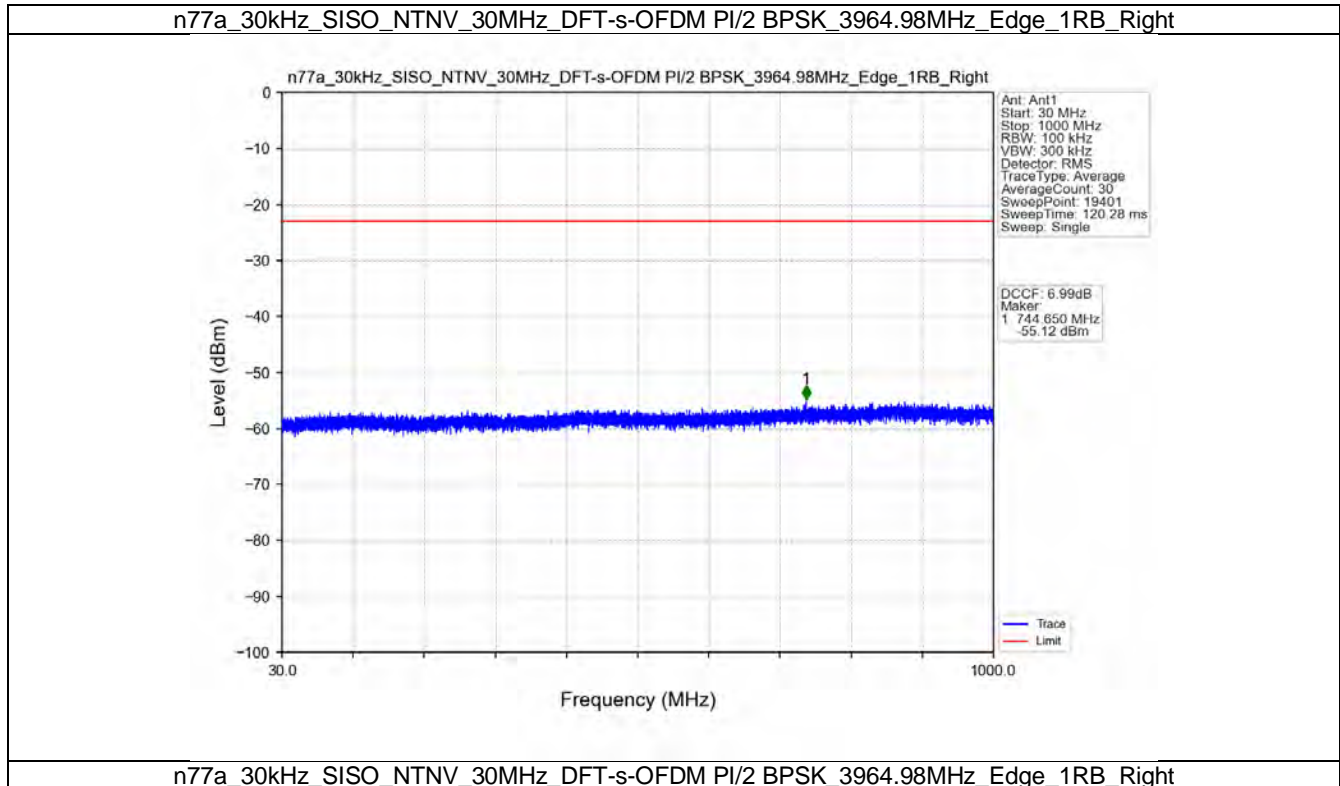


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Report No.: SZCR240100038409

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Page: 455 of 973



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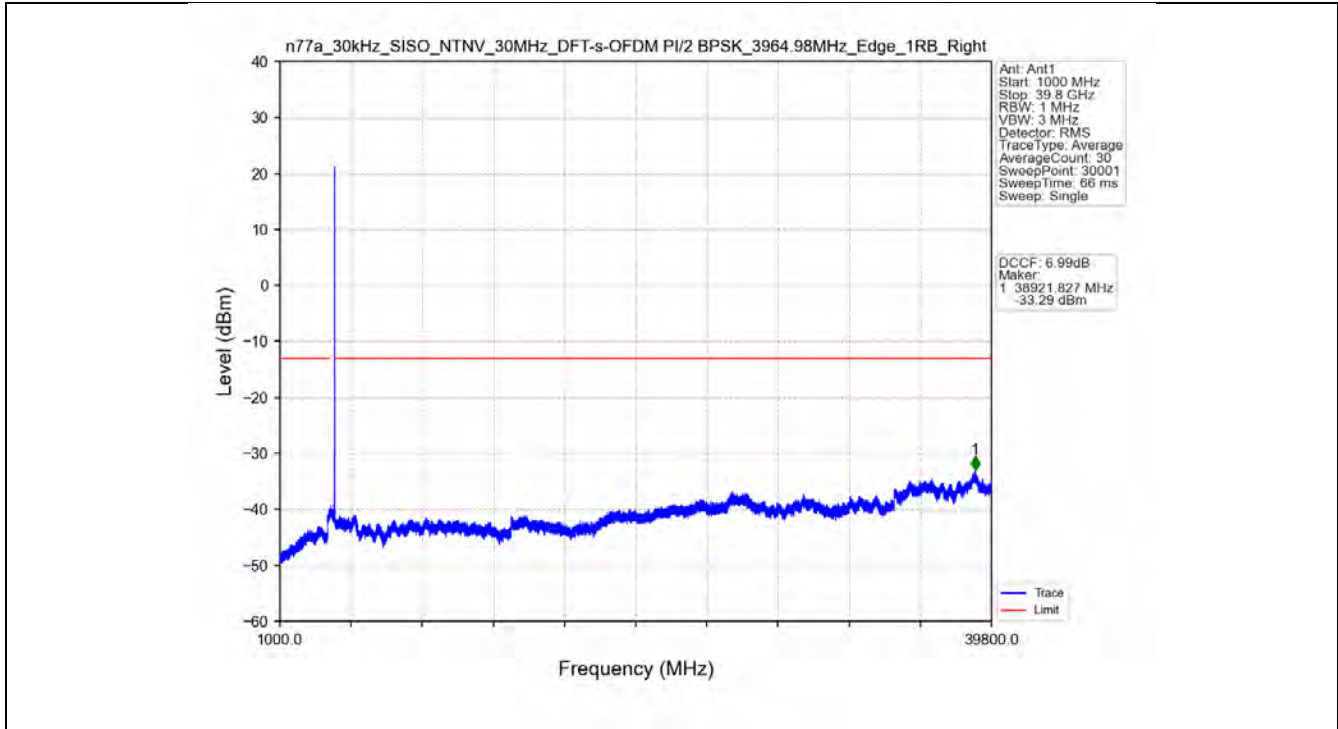


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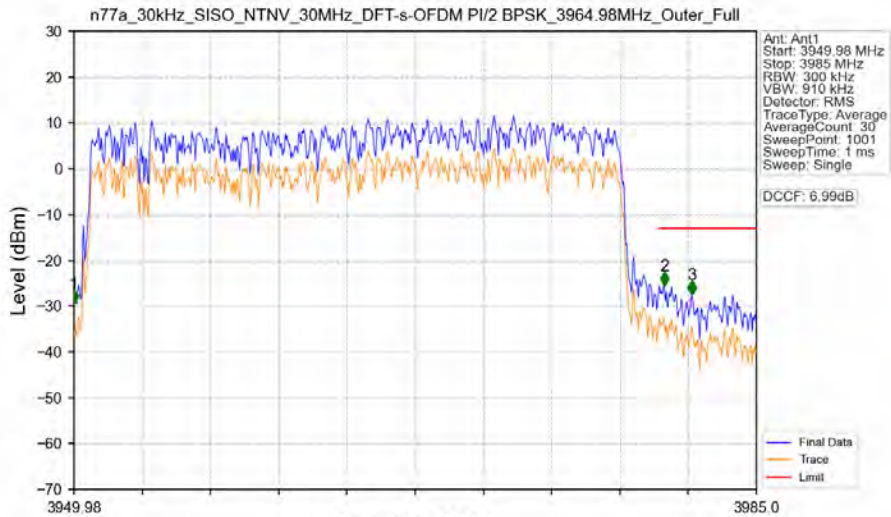
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Report No.: SZCR240100038409

Rev.: 01

Page: 457 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3964.98MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.3	/	1	3949.980	-29.39	-13	Pass
3979.98	3979.98	0.3	/	/	/	/	/	/
3979.98	3980.98	0.3	/	2	3980.272	-25.58	-13	Pass
3980.98	3984.98	0.5	/	3	3981.673	-27.56	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM PI/2 BPSK\_3964.98MHz\_Inner\_1RB\_Right



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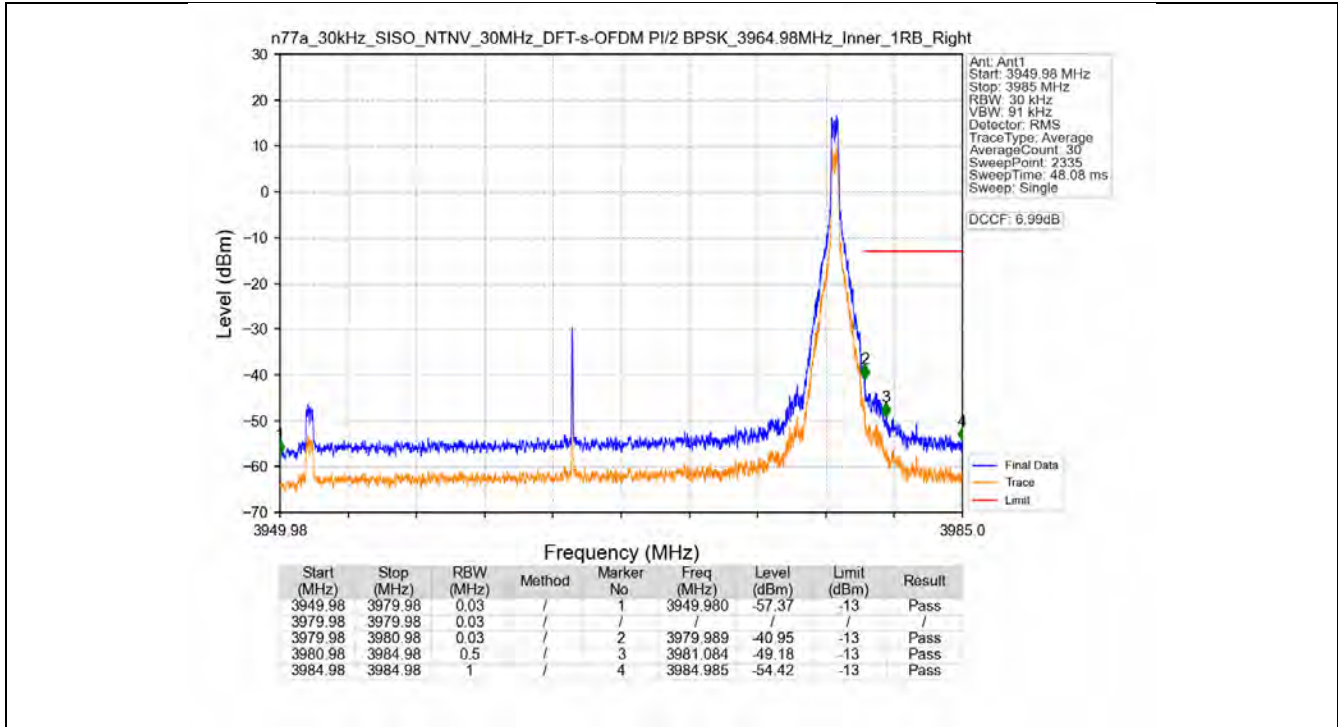


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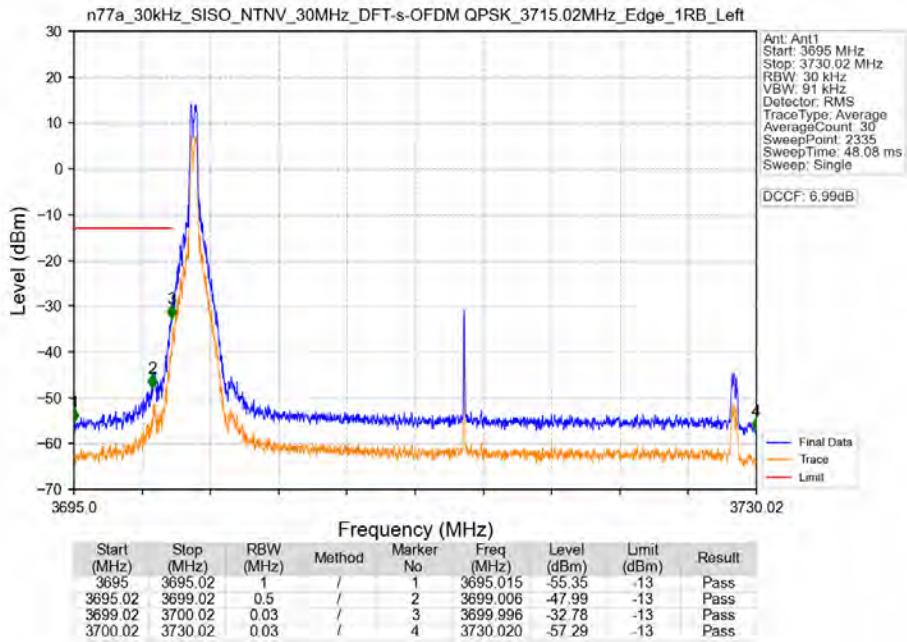
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Report No.: SZCR240100038409

Rev.: 01

Page: 459 of 973

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n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3715.02MHz\_Edge\_1RB\_Left



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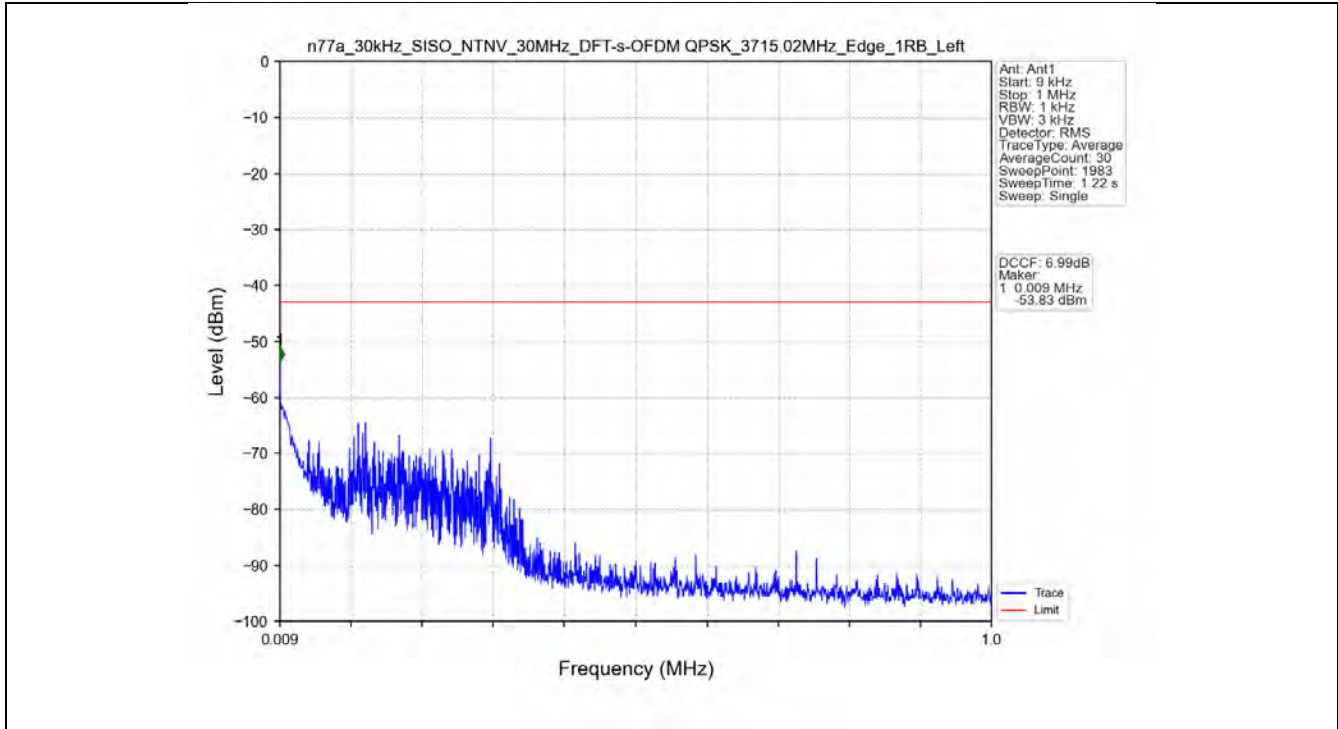


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Report No.: SZCR240100038409

Rev.: 01

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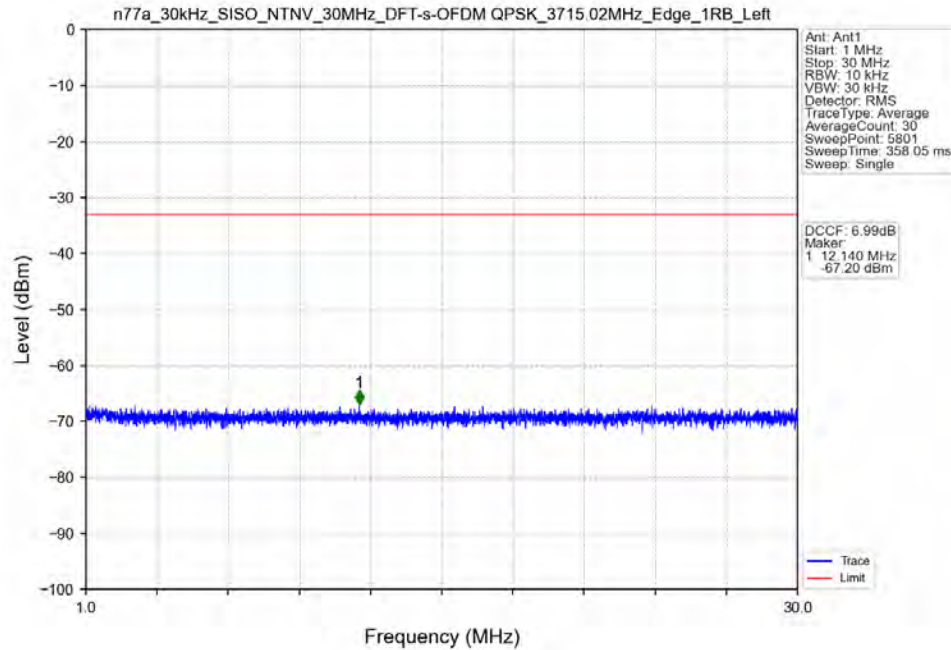
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Report No.: SZCR240100038409

Rev.: 01

Page: 461 of 973

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n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3715.02MHz\_Edge\_1RB\_Left



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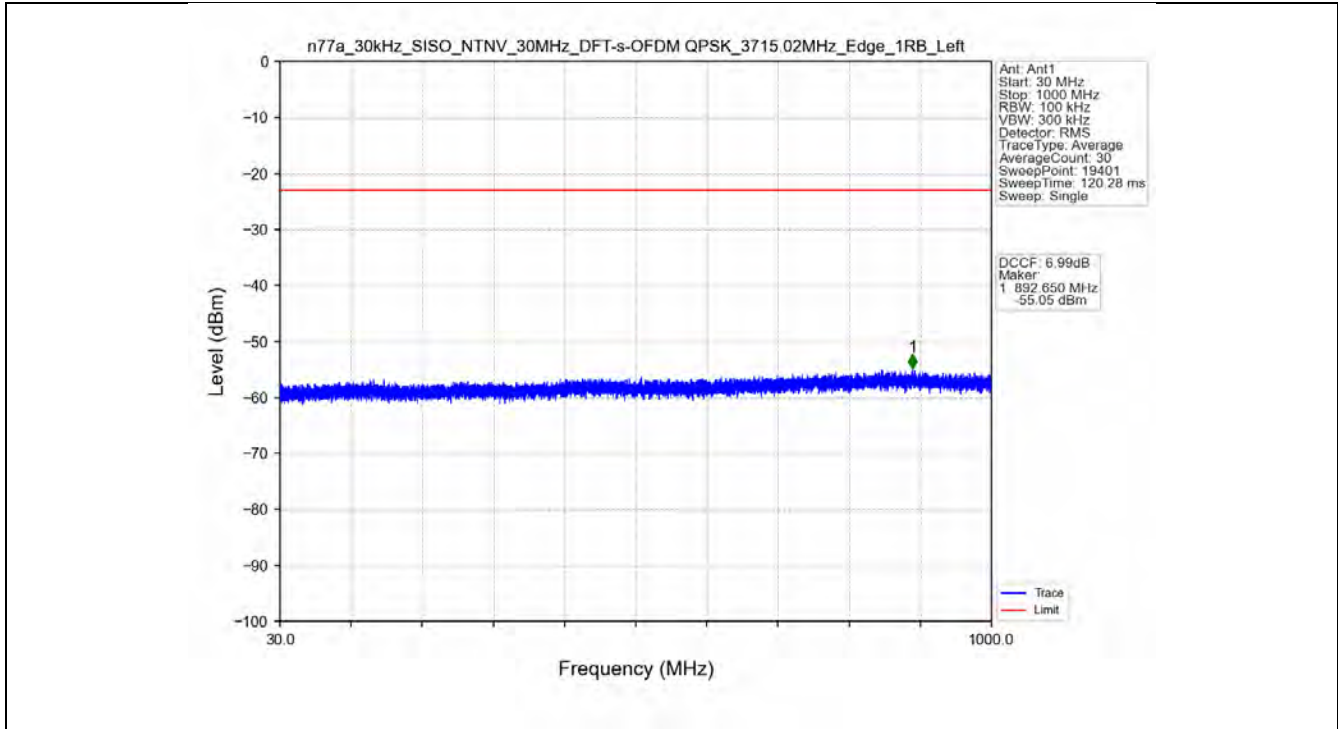


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Rev.: 01

Page: 462 of 973



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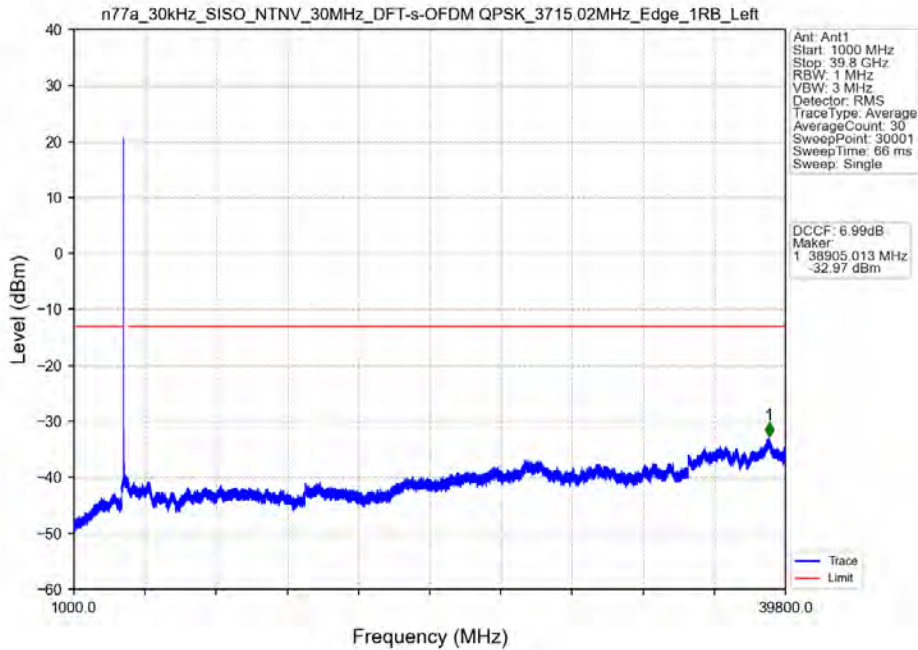
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Report No.: SZCR240100038409

Rev.: 01

Page: 463 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3715.02MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3715.02MHz\_Outer\_Full



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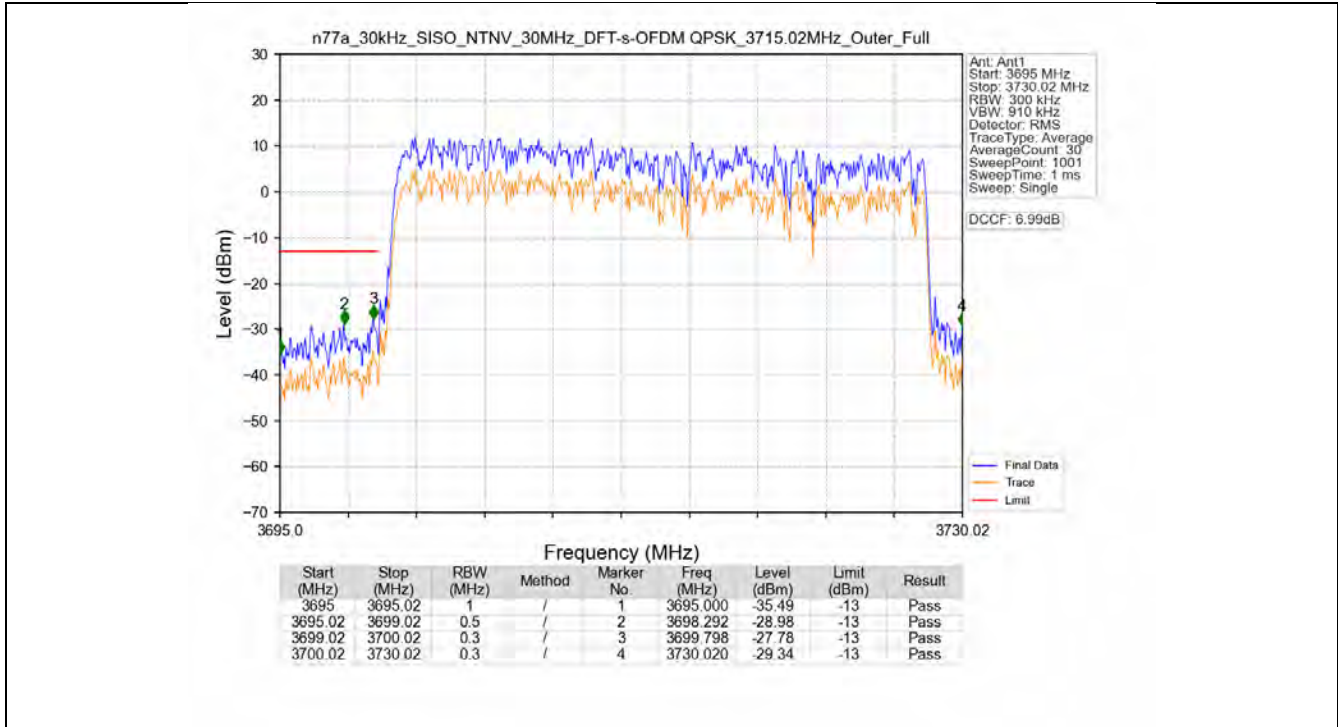


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Report No.: SZCR240100038409

Rev.: 01

Page: 464 of 973



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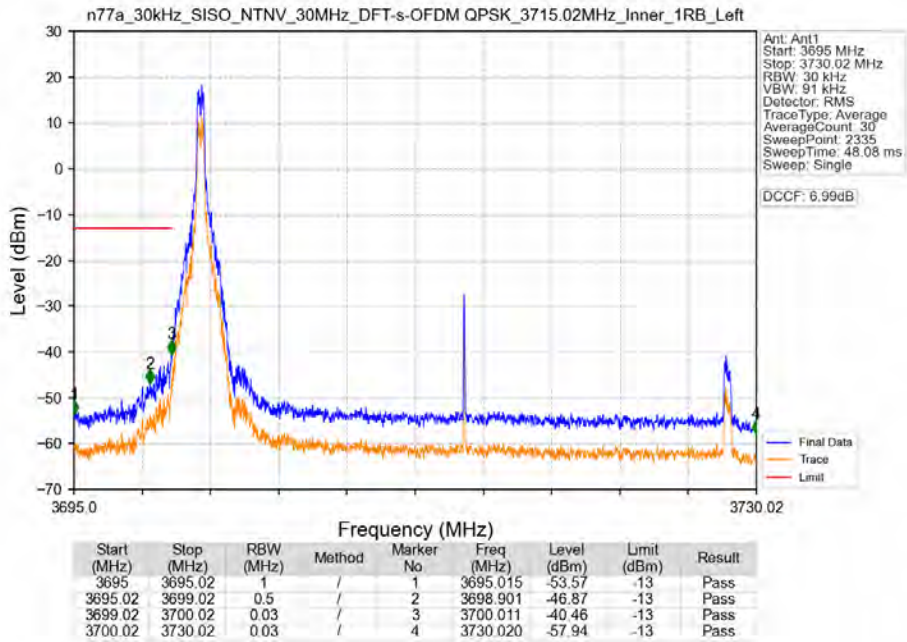
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Report No.: SZCR240100038409

Rev.: 01

Page: 465 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3715.02MHz\_Inner\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Edge\_1RB\_Left



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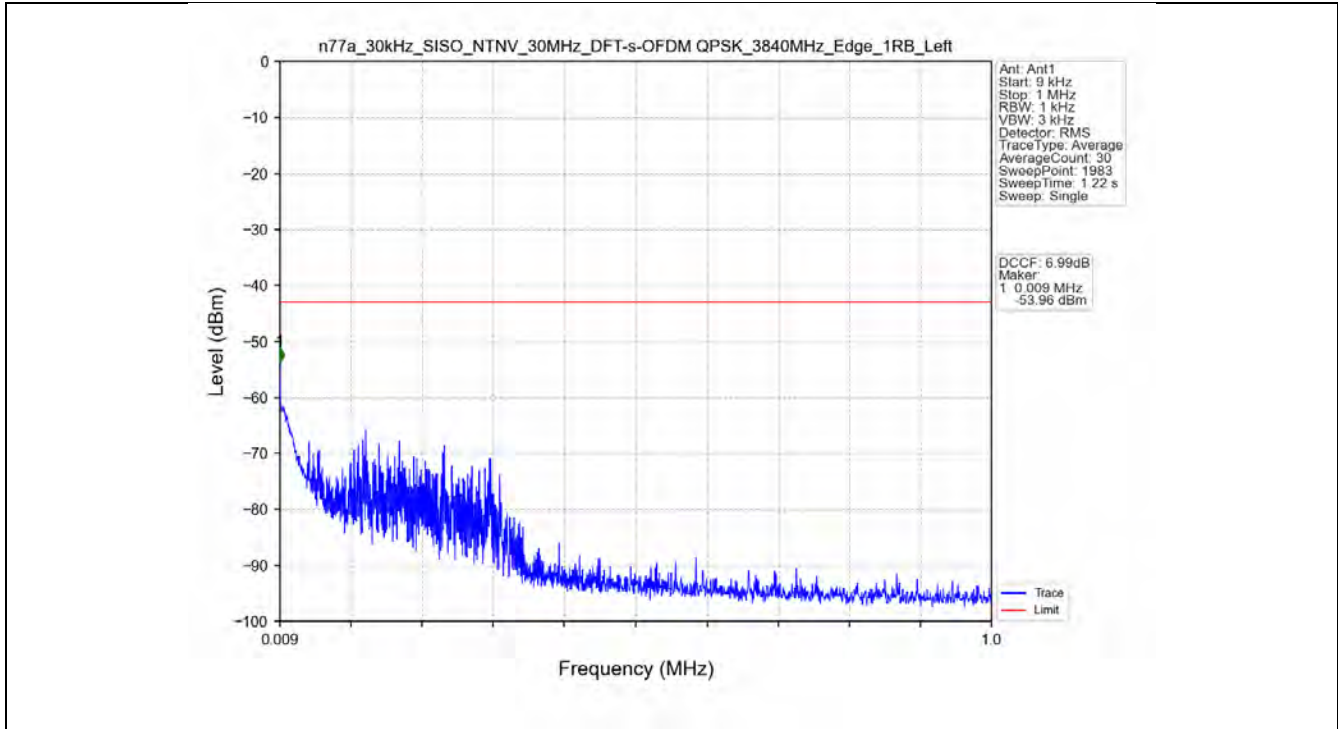


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Report No.: SZCR240100038409

Rev.: 01

Page: 466 of 973



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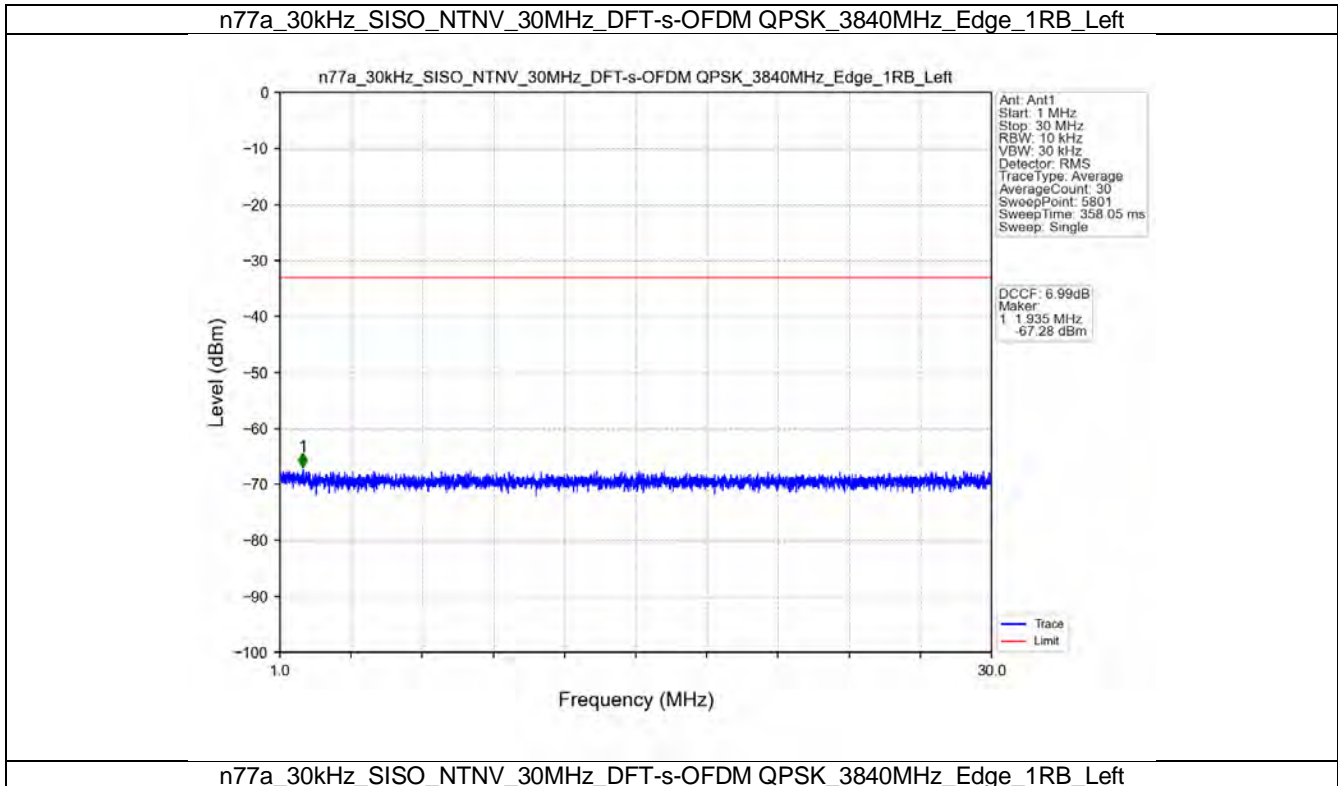


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Report No.: SZCR240100038409

Rev.: 01

Page: 467 of 973



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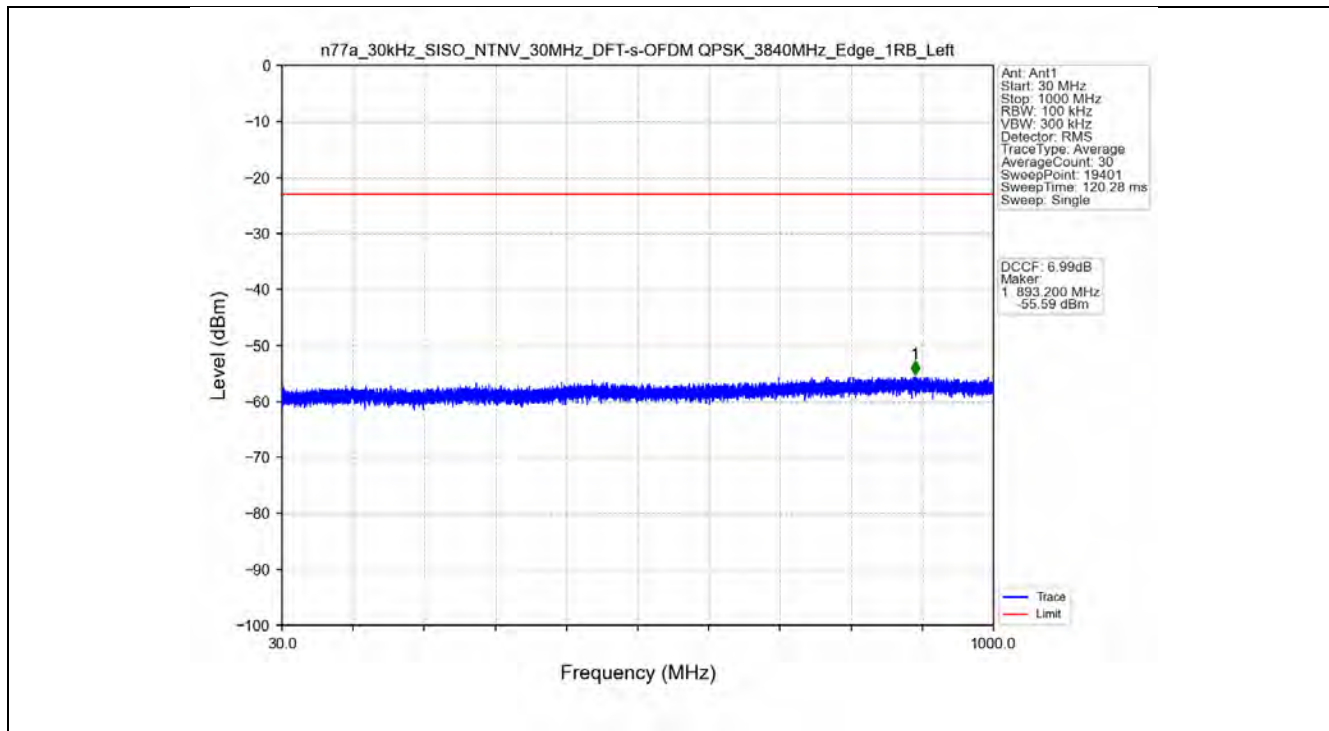
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 Rev.: 01  
 Page: 468 of 973



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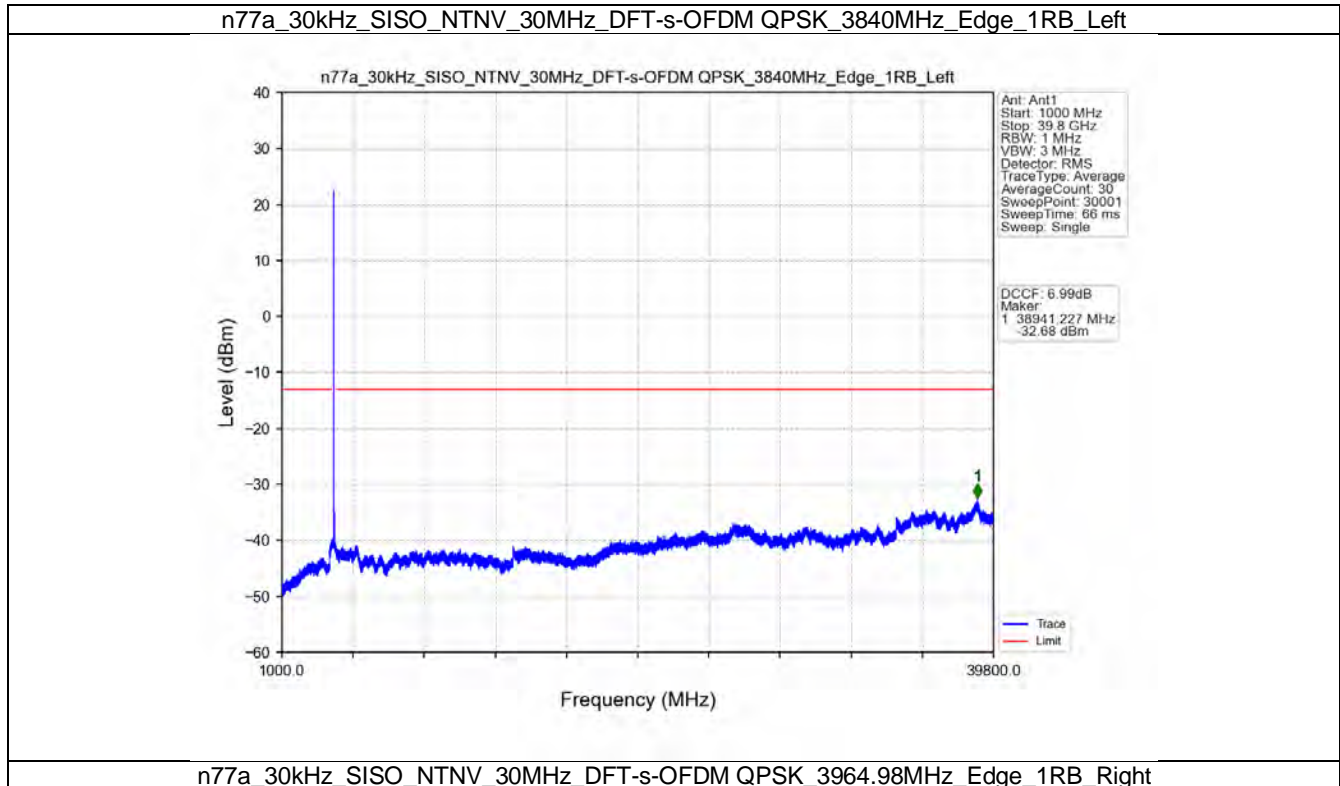


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Report No.: SZCR240100038409

Rev.: 01

Page: 469 of 973



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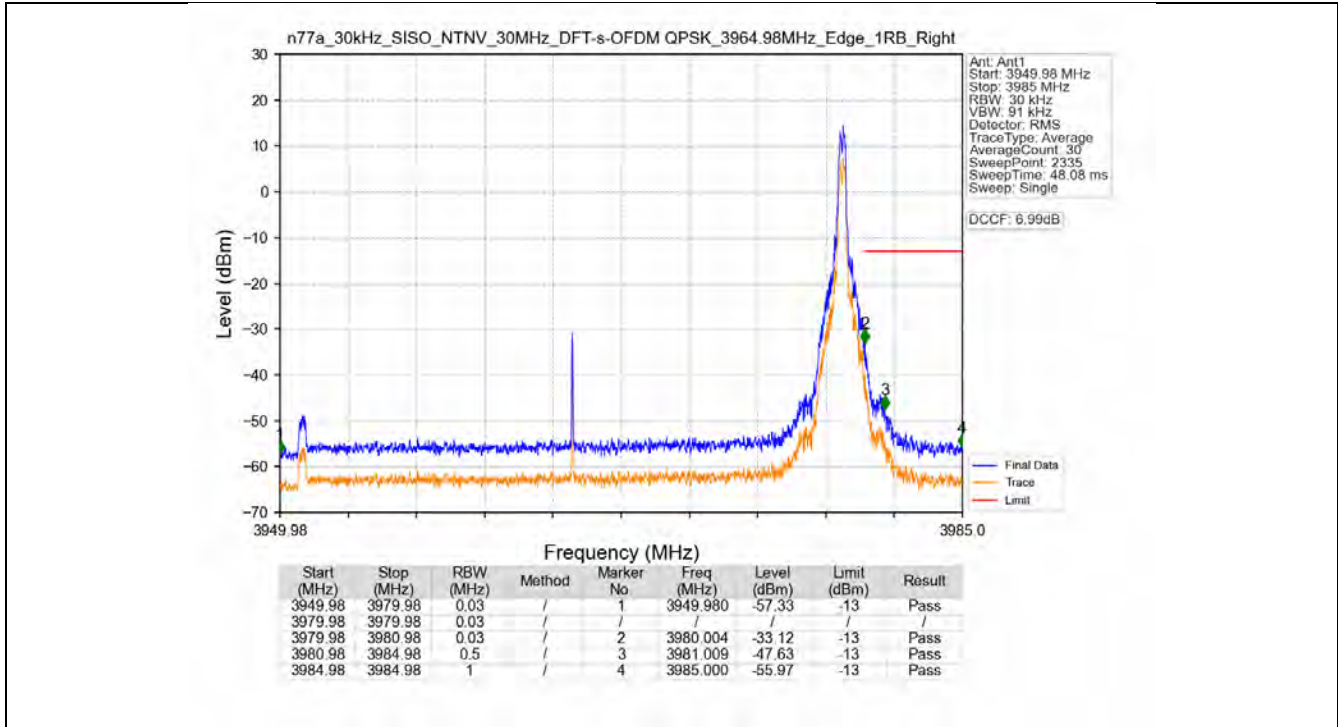


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Page: 470 of 973



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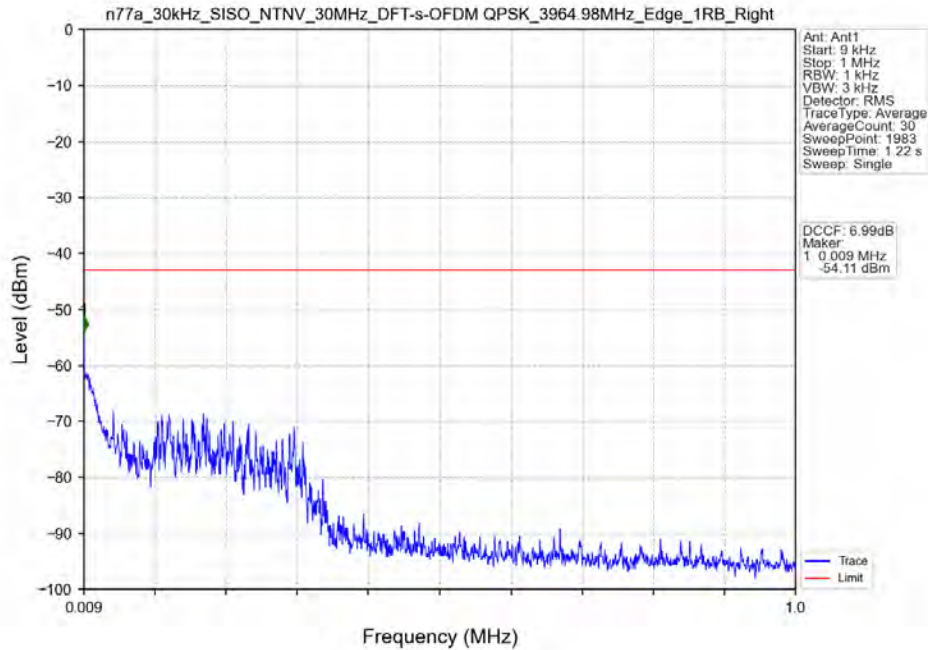
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Report No.: SZCR240100038409

Rev.: 01

Page: 471 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3964.98MHz\_Edge\_1RB\_Right



n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3964.98MHz\_Edge\_1RB\_Right



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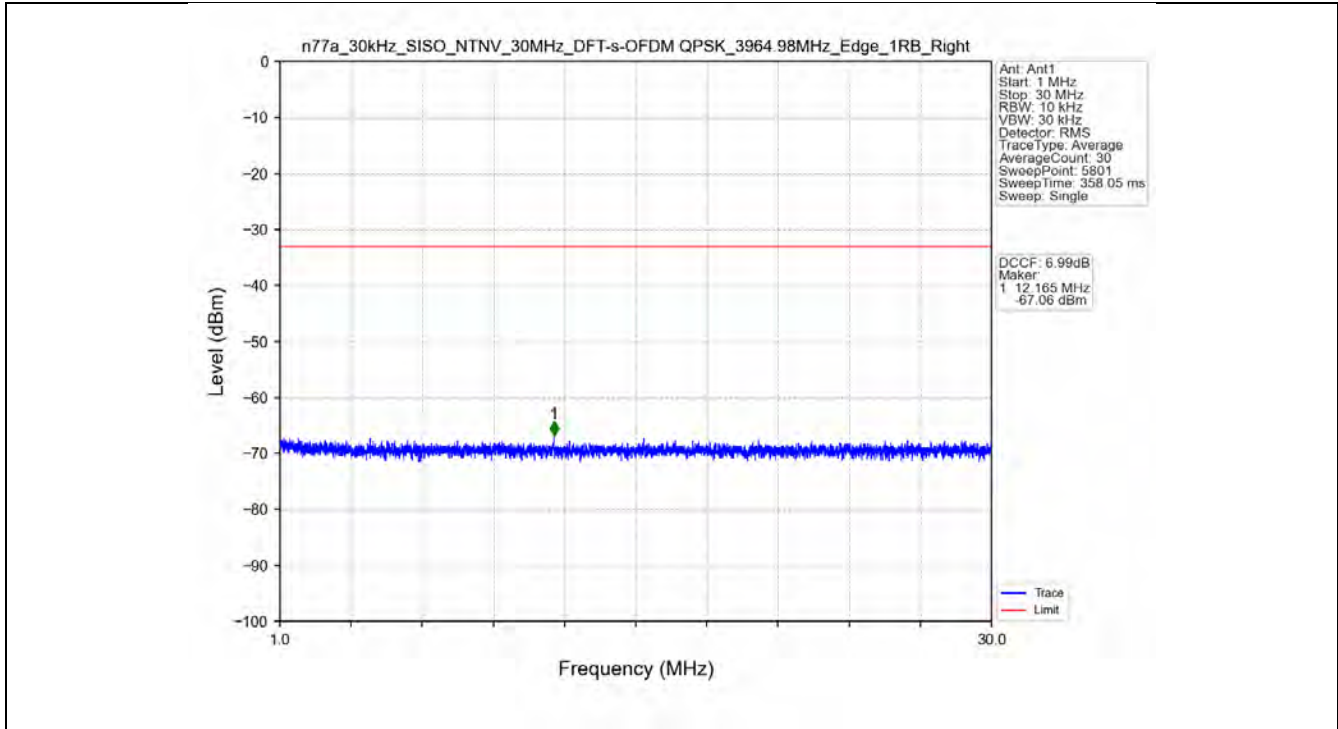


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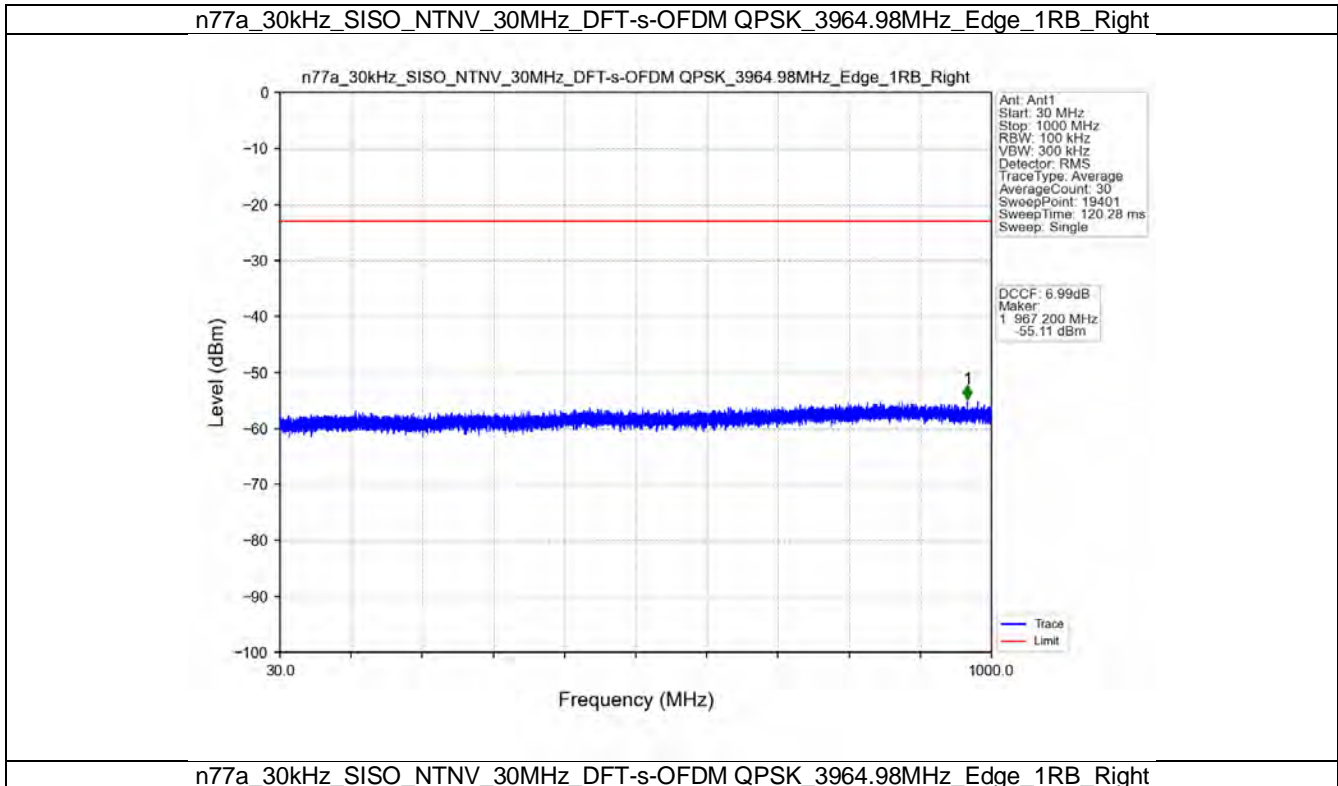


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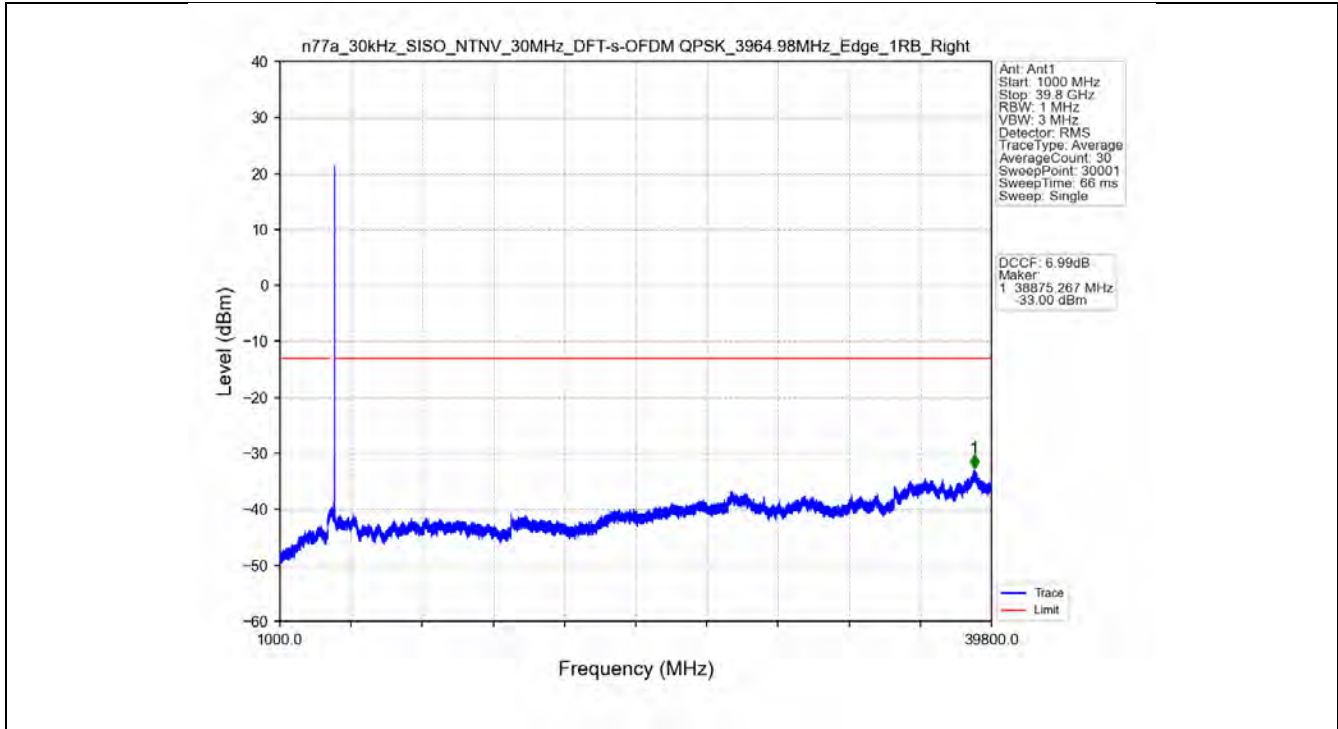


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Rev.: 01

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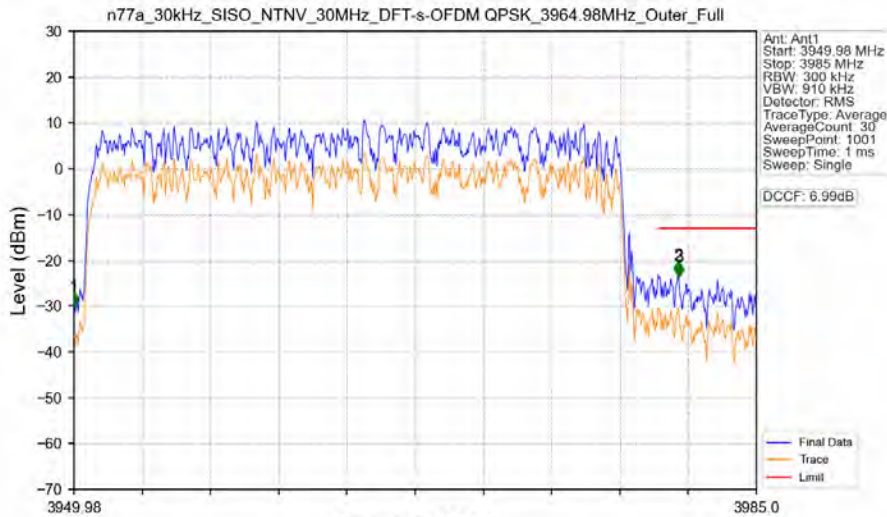
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Report No.: SZCR240100038409

Rev.: 01

Page: 475 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3964.98MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.3	/	1	3949.980	-29.94	-13	Pass
3979.98	3979.98	0.3	/	/	/	/	/	/
3979.98	3980.98	0.3	/	2	3980.973	-23.27	-13	Pass
3980.98	3984.98	0.5	/	3	3981.008	-23.56	-13	Pass

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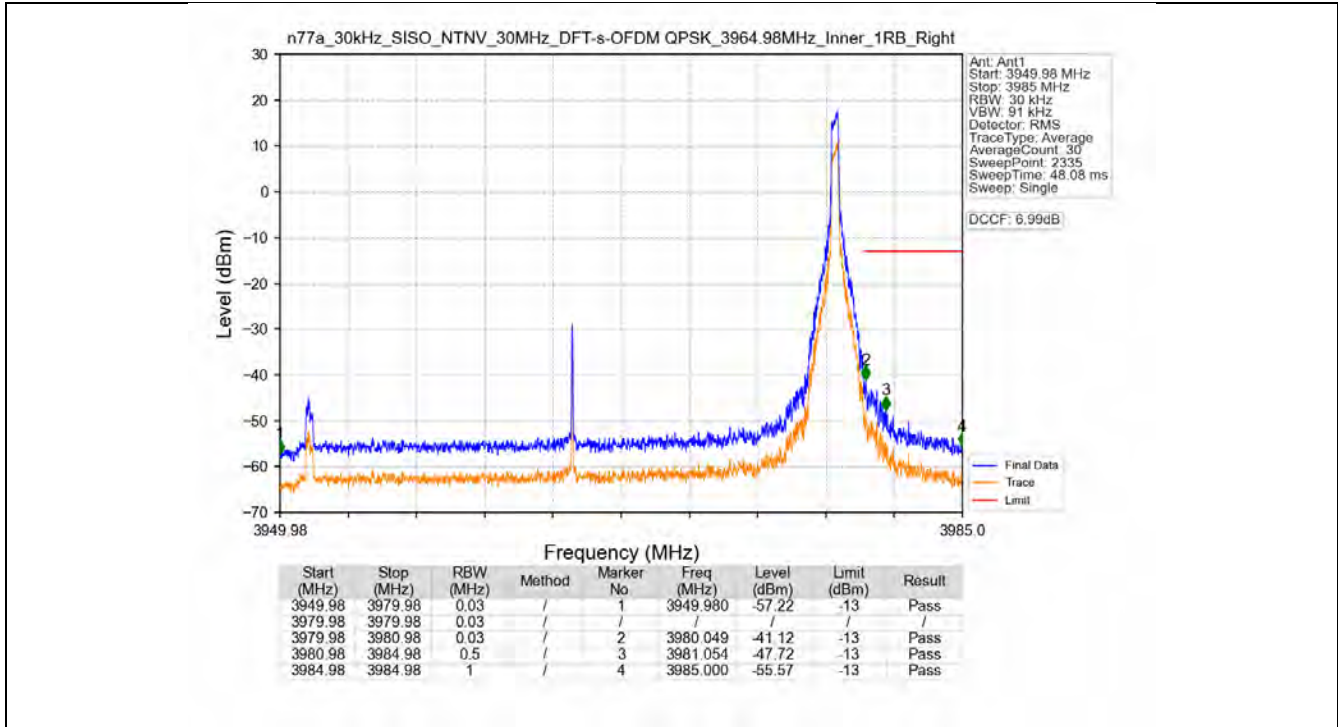


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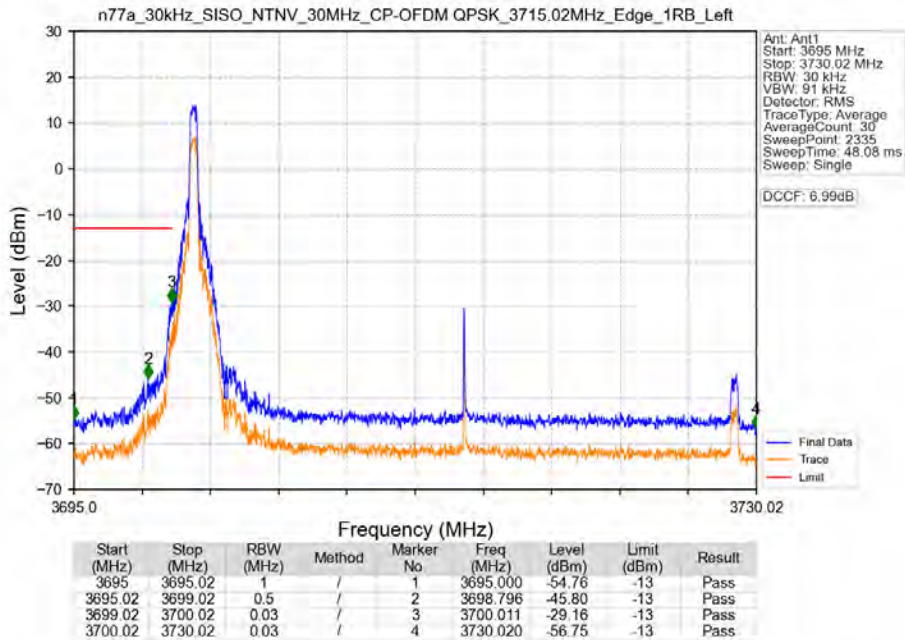
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Report No.: SZCR240100038409

Rev.: 01

Page: 477 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Edge\_1RB\_Left



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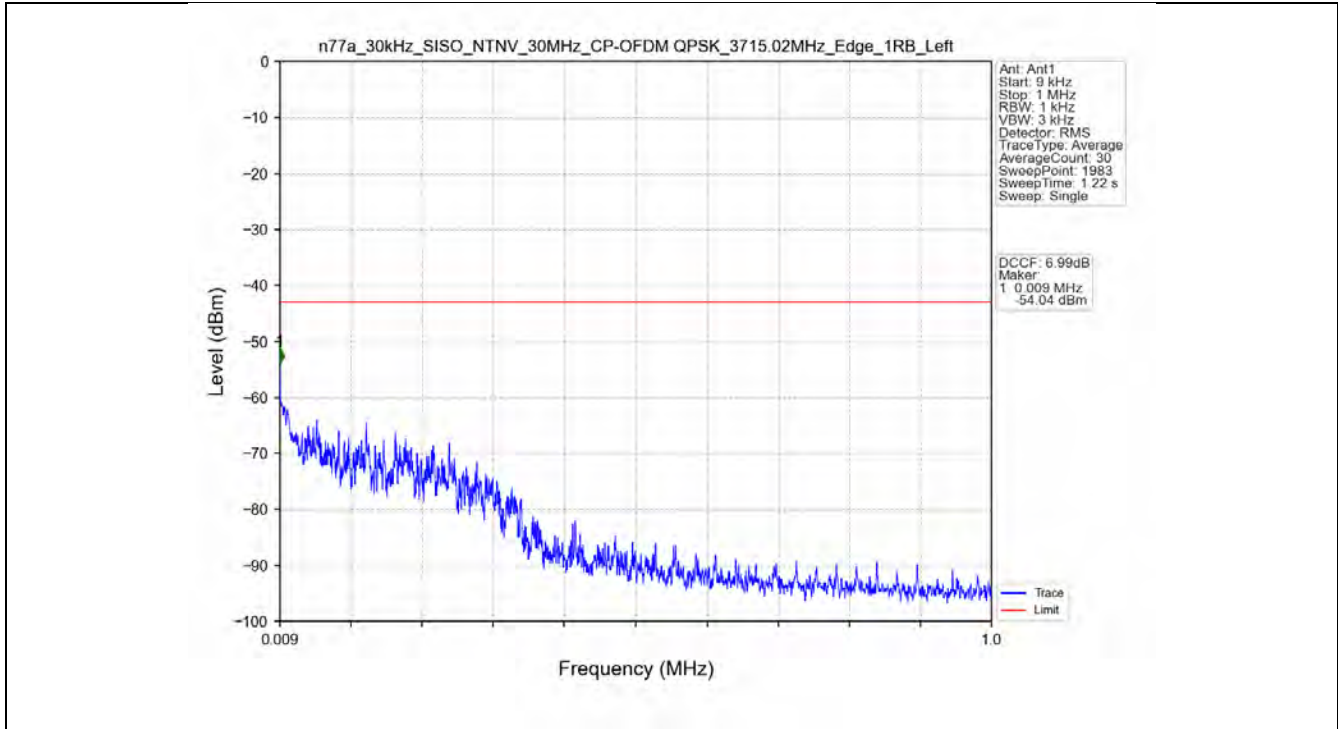


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Report No.: SZCR240100038409

Rev.: 01

Page: 478 of 973



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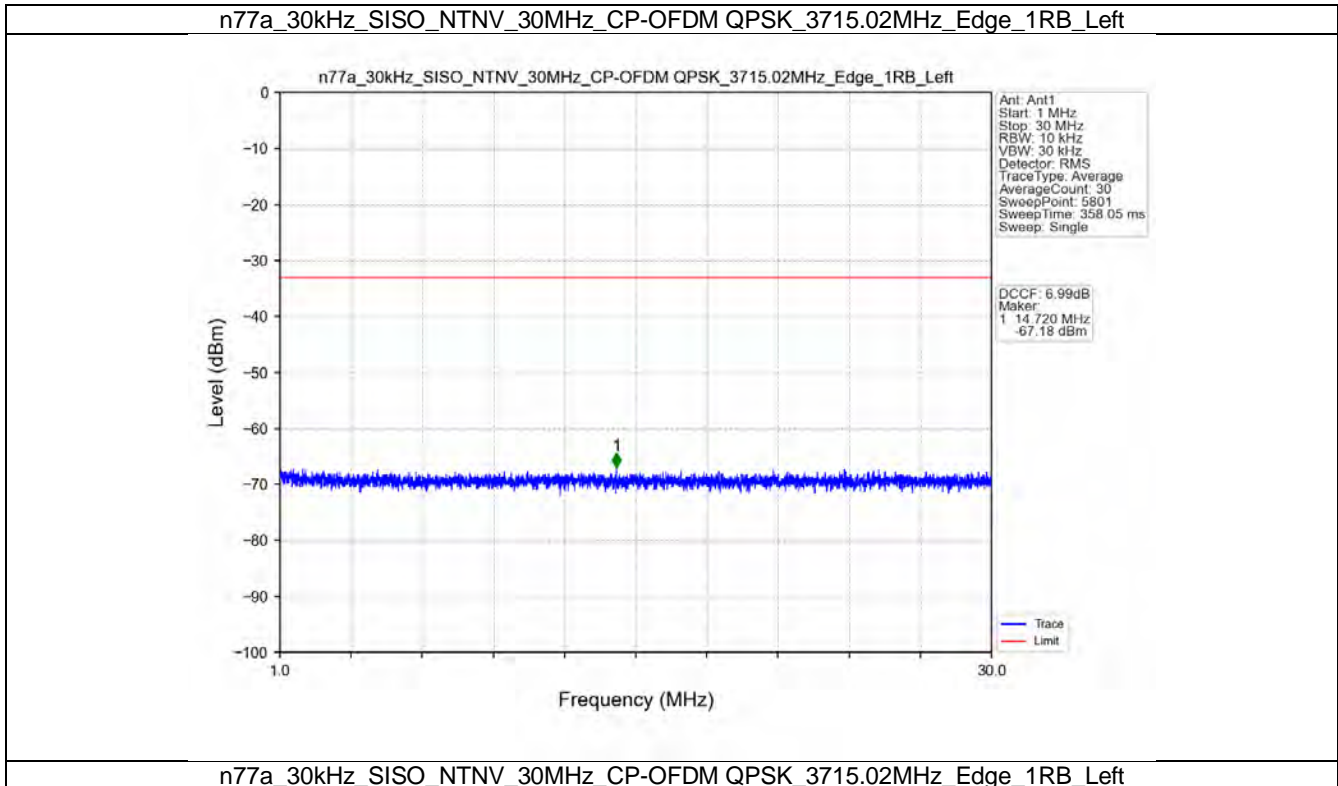


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Report No.: SZCR240100038409

Rev.: 01

Page: 479 of 973



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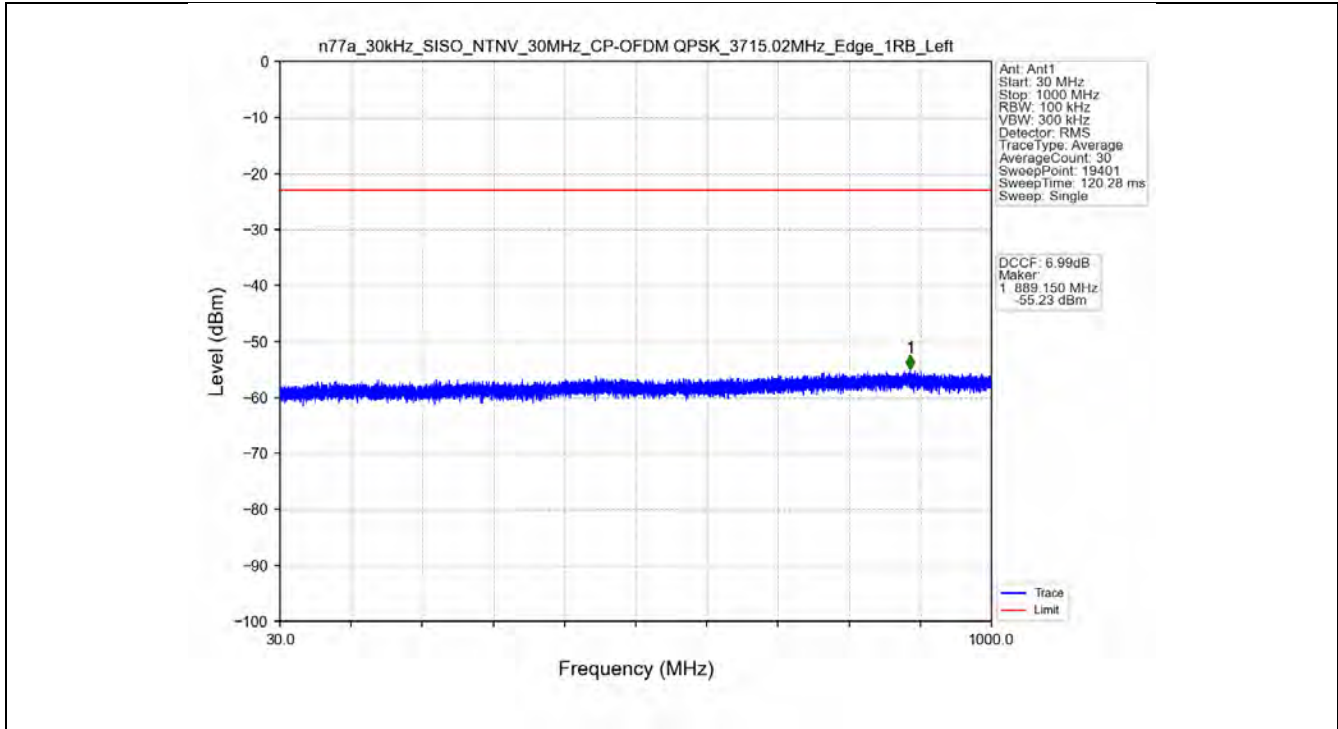


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Report No.: SZCR240100038409

Rev.: 01

Page: 480 of 973



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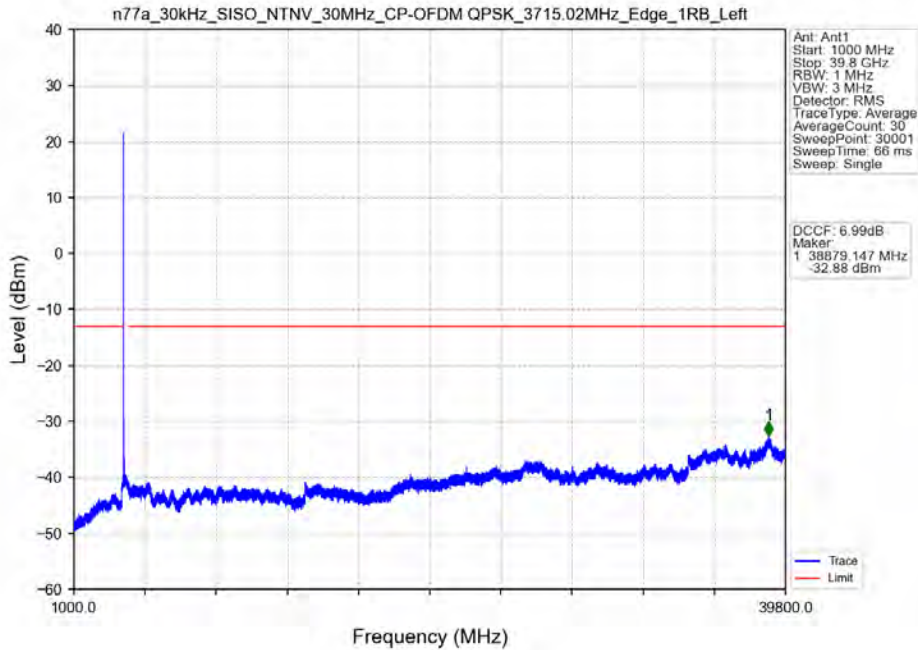
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Report No.: SZCR240100038409

Rev.: 01

Page: 481 of 973

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n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.02MHz\_Outer\_Full



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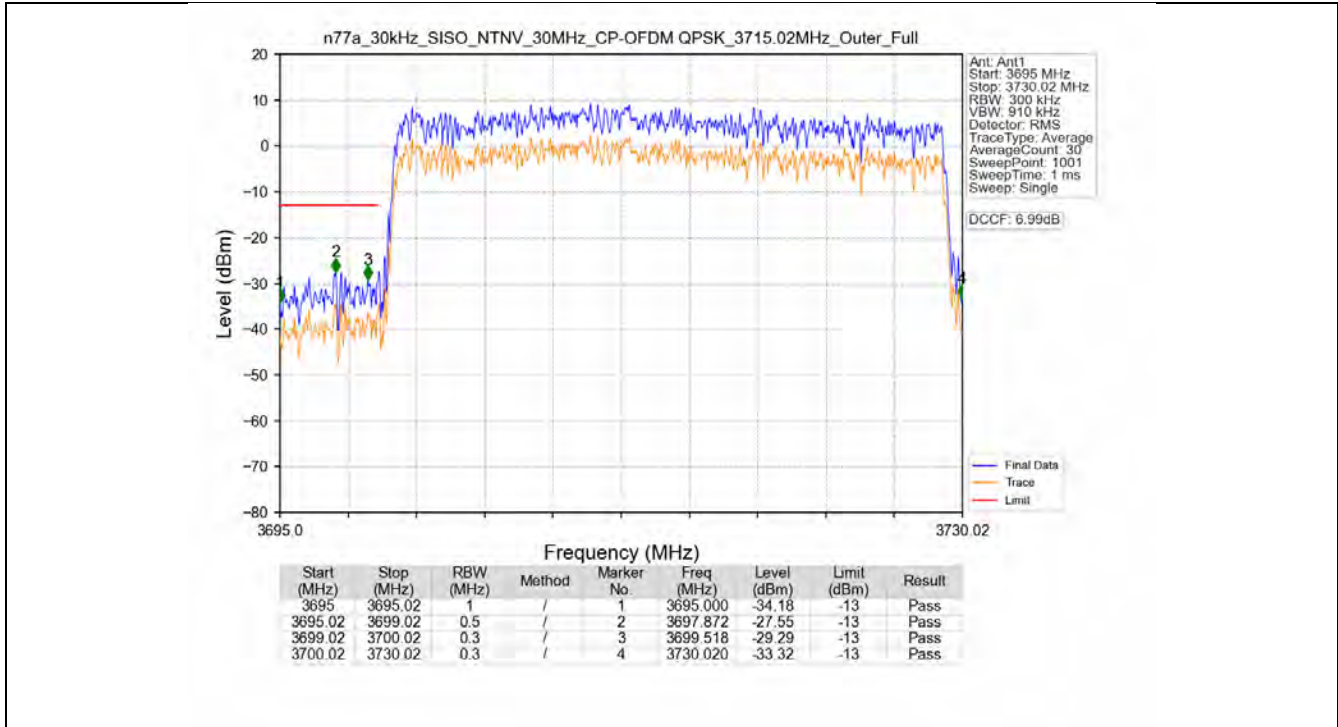


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Report No.: SZCR240100038409

Rev.: 01

Page: 482 of 973



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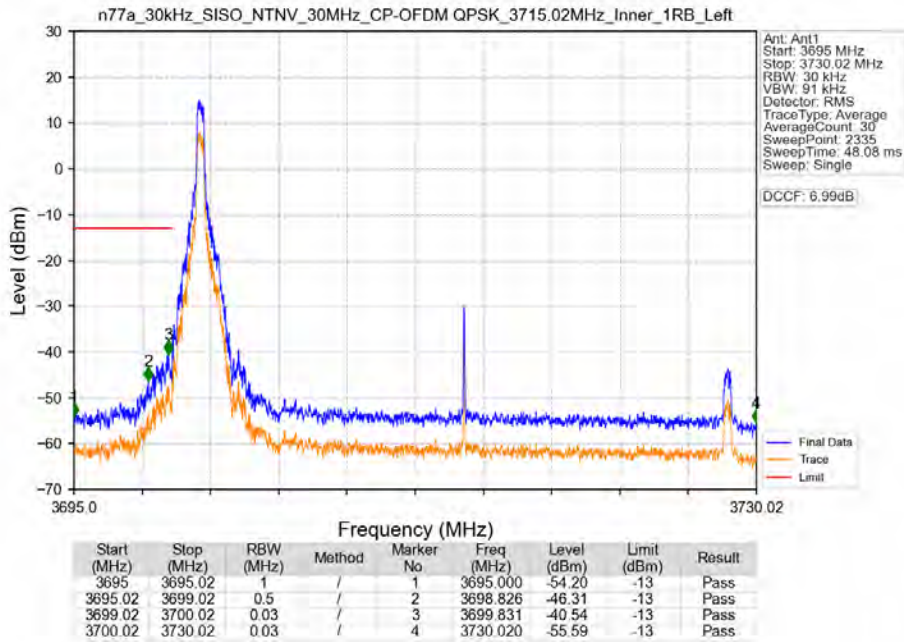
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Report No.: SZCR240100038409

Rev.: 01

Page: 483 of 973

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n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3840MHz\_Edge\_1RB\_Left



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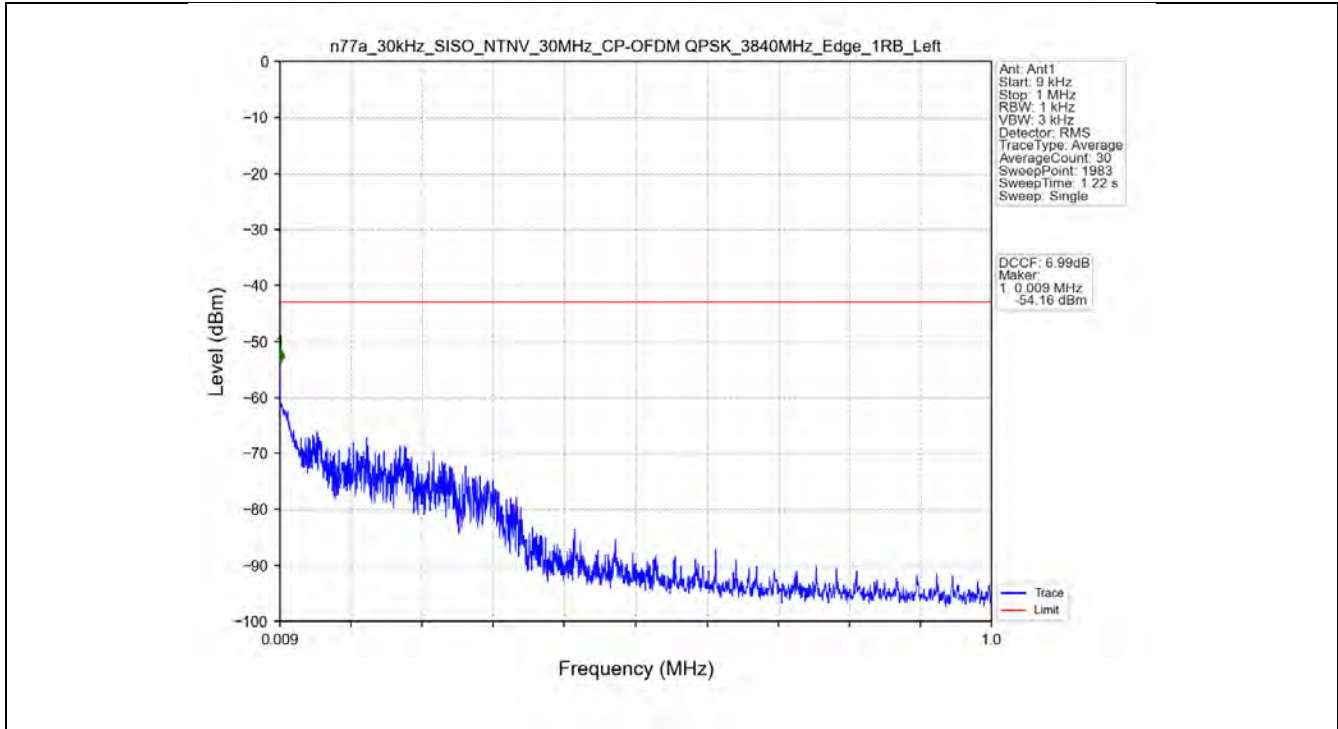


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Rev.: 01

Page: 484 of 973



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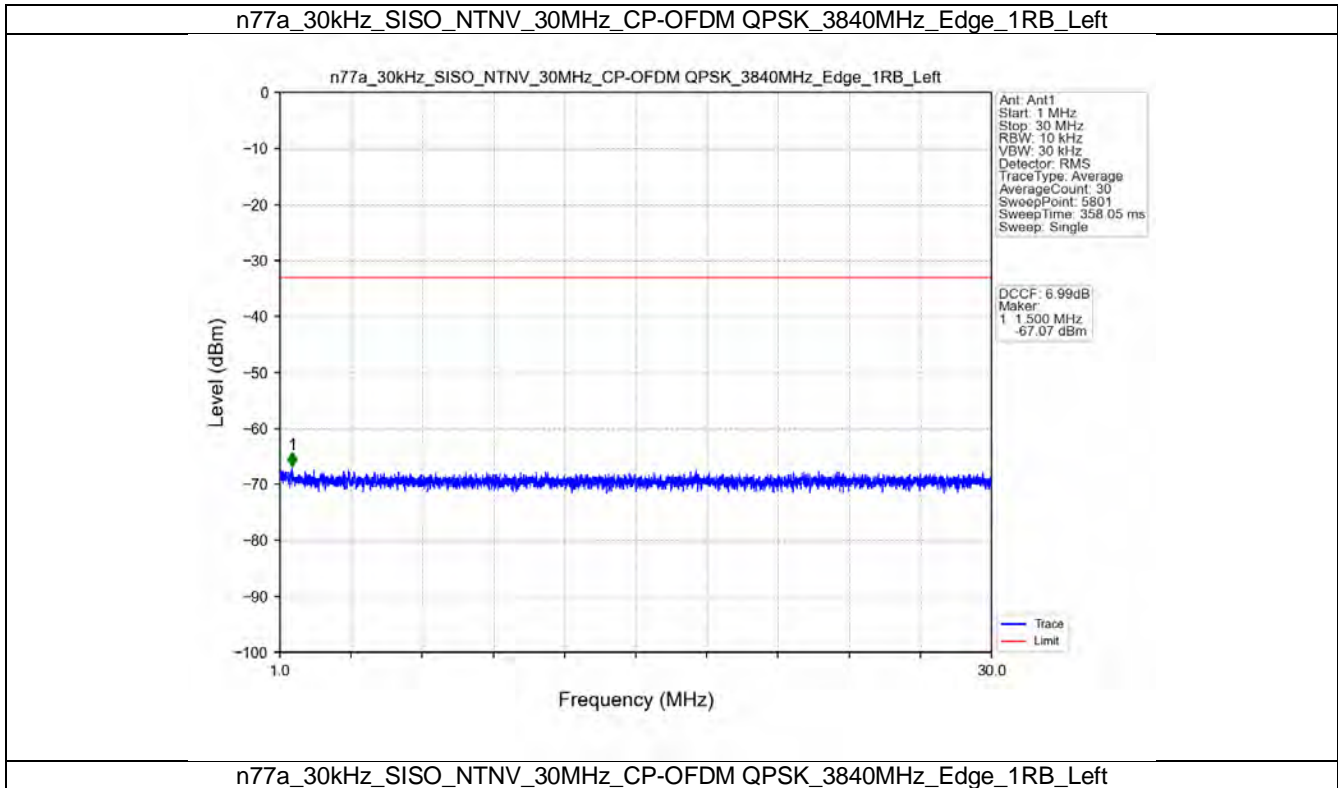


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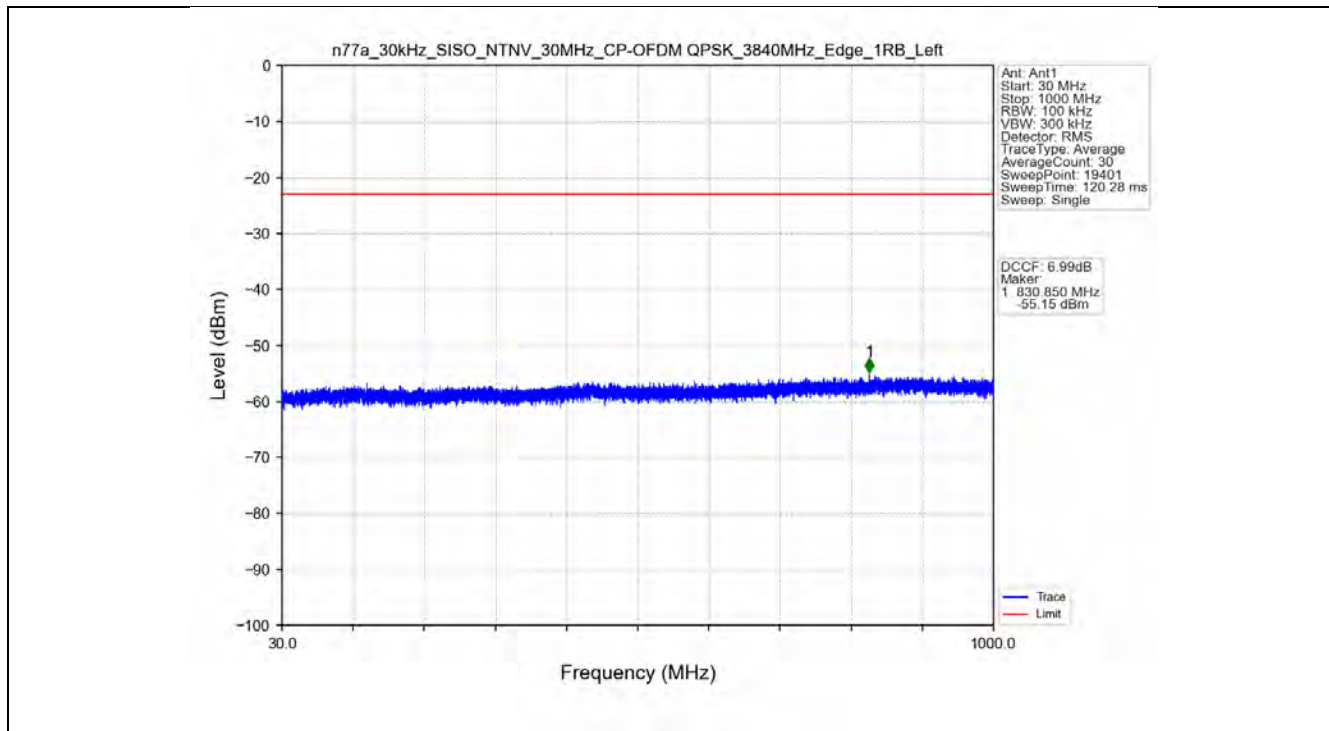
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Page: 486 of 973



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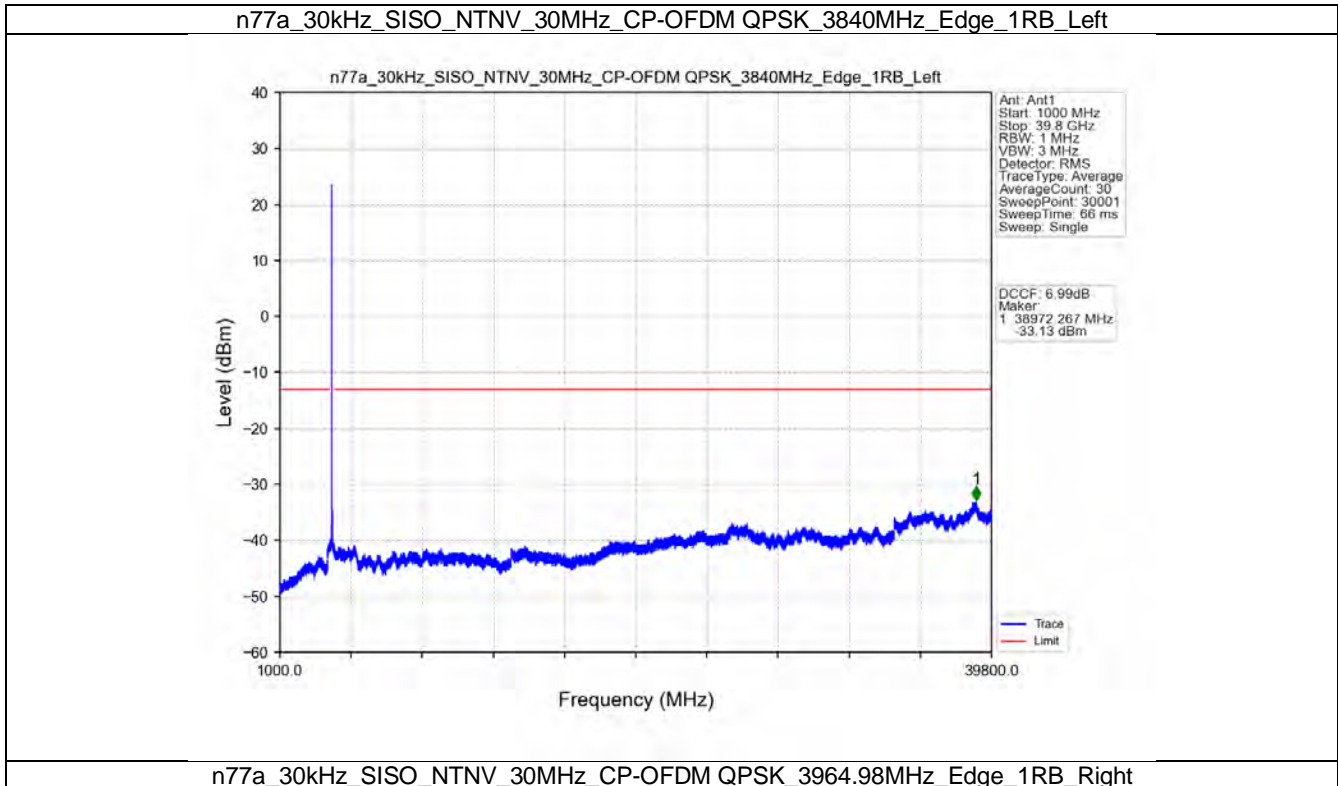


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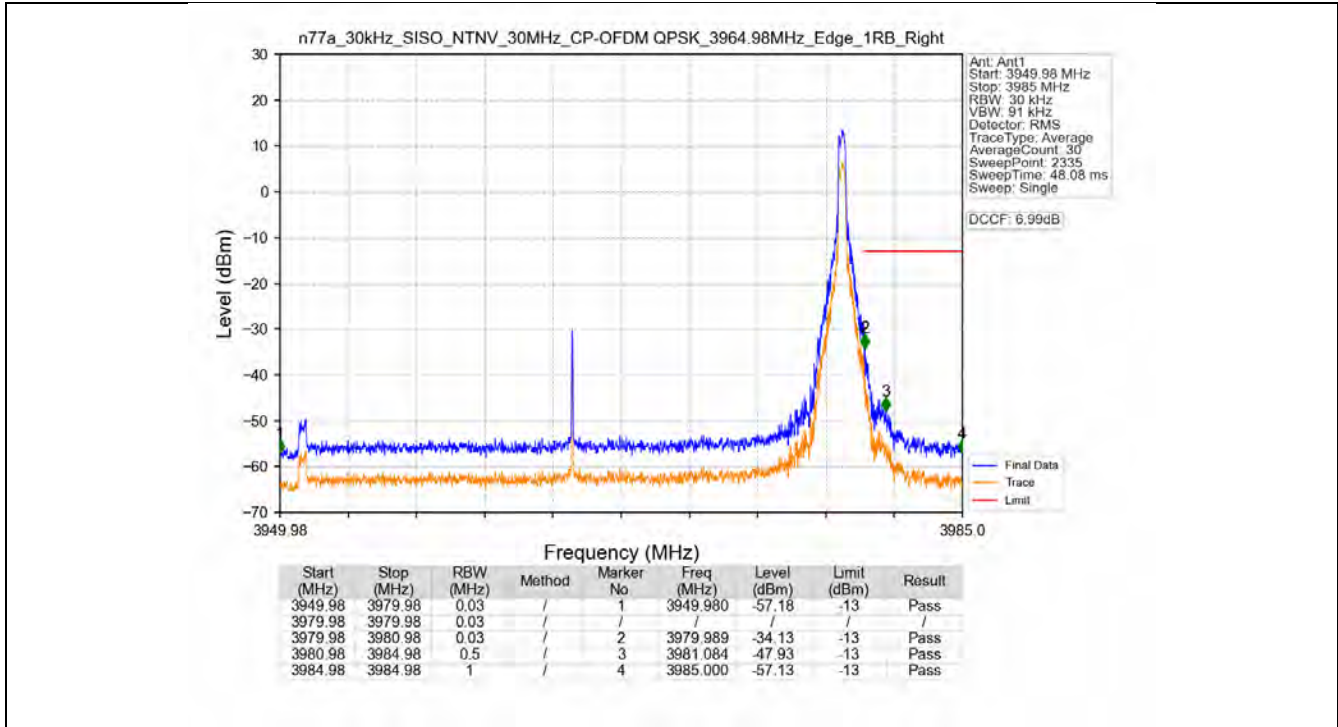


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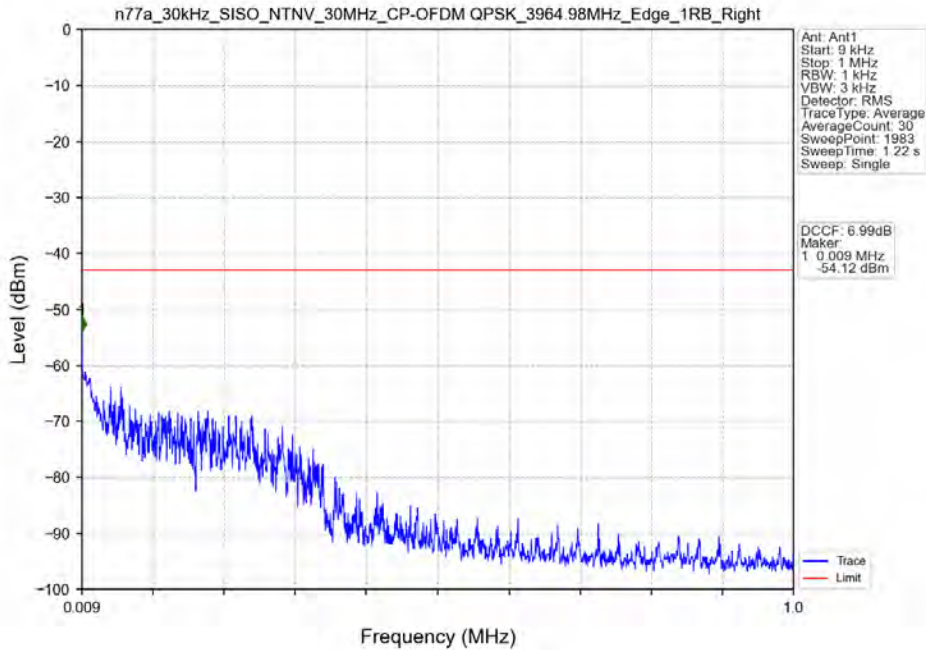
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Report No.: SZCR240100038409

Rev.: 01

Page: 489 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3964.98MHz\_Edge\_1RB\_Right



n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3964.98MHz\_Edge\_1RB\_Right



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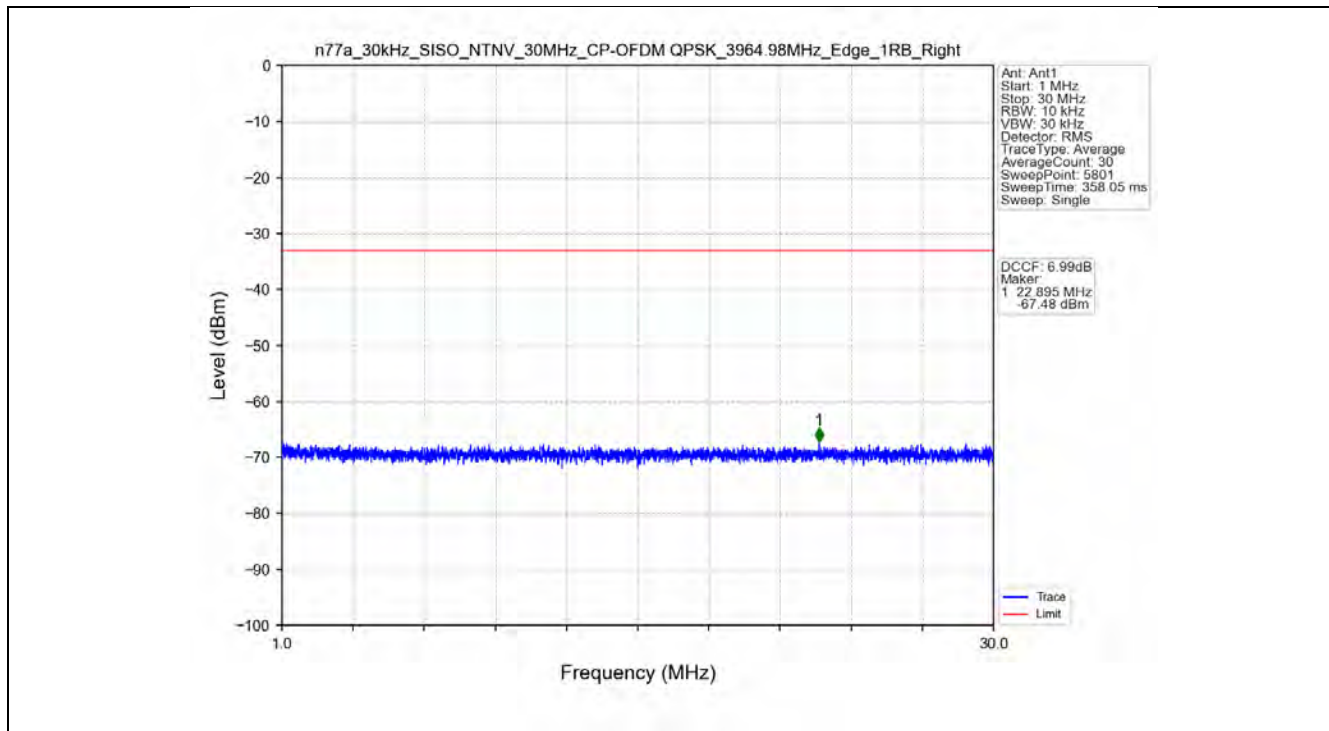
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Page: 490 of 973



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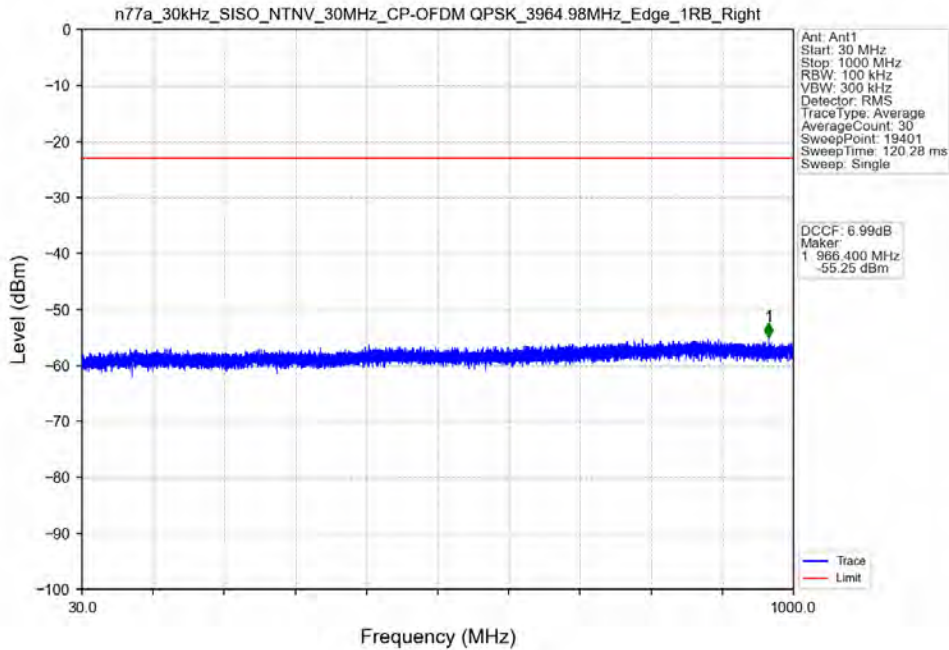
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Report No.: SZCR240100038409

Rev.: 01

Page: 491 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3964.98MHz\_Edge\_1RB\_Right



n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3964.98MHz\_Edge\_1RB\_Right



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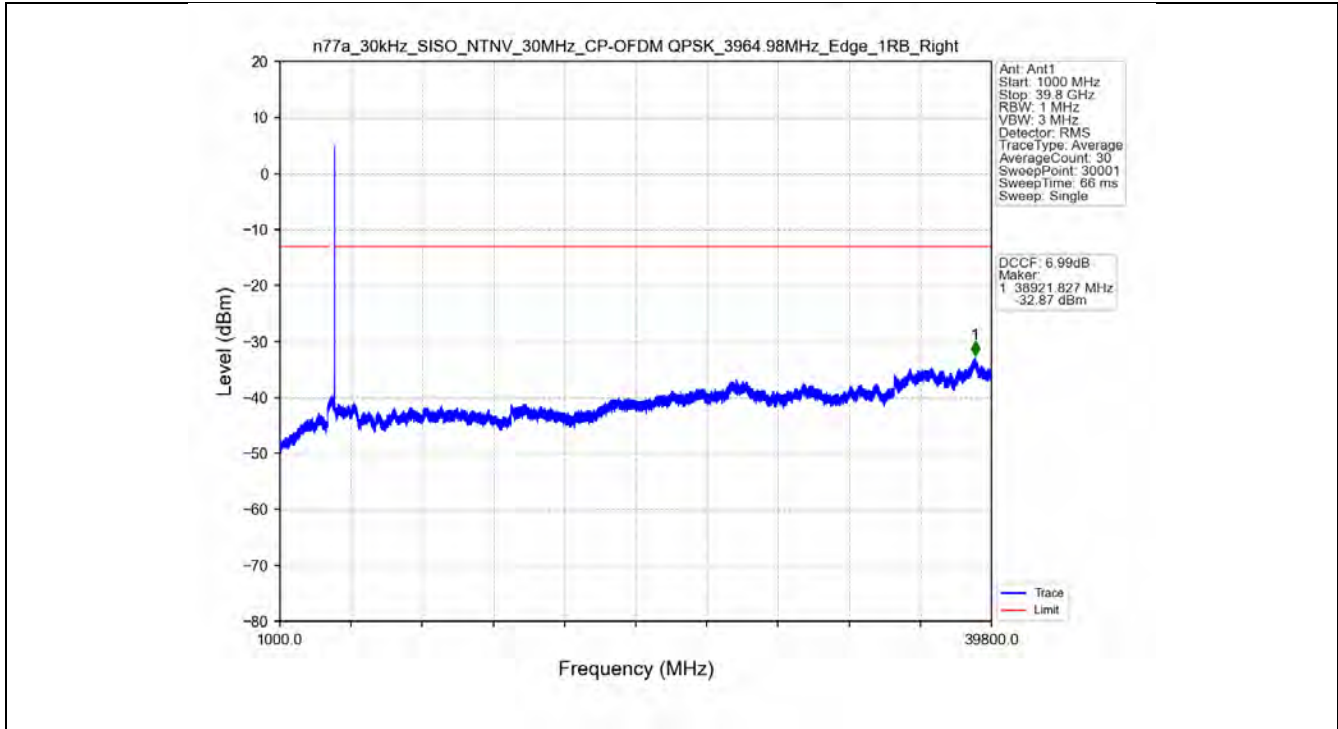


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Report No.: SZCR240100038409

Rev.: 01

Page: 492 of 973



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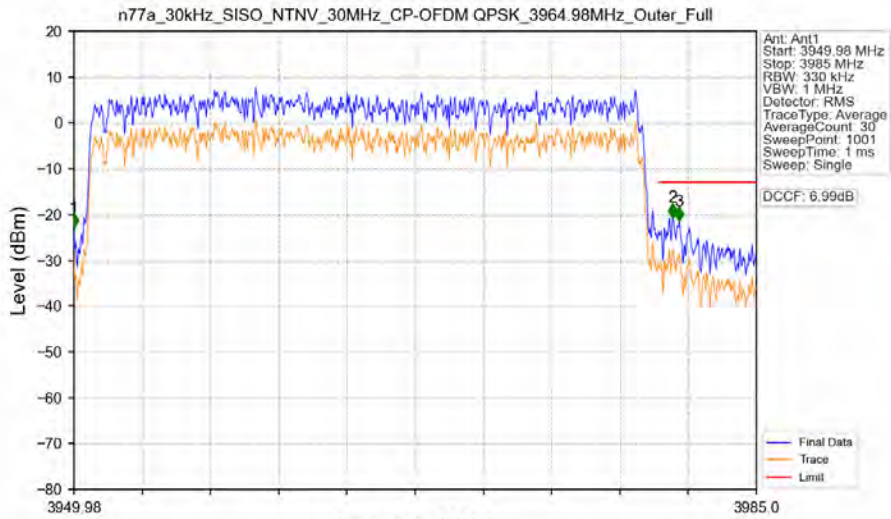
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Report No.: SZCR240100038409

Rev.: 01

Page: 493 of 973

n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3964.98MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3949.98	3979.98	0.33	/	1	3949.980	-22.90	-13	Pass
3979.98	3979.98	0.33	/	/	/	/	/	/
3979.98	3980.98	0.33	/	2	3980.693	-20.67	-13	Pass
3980.98	3984.98	0.5	/	3	3981.043	-21.51	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3964.98MHz\_Inner\_1RB\_Right



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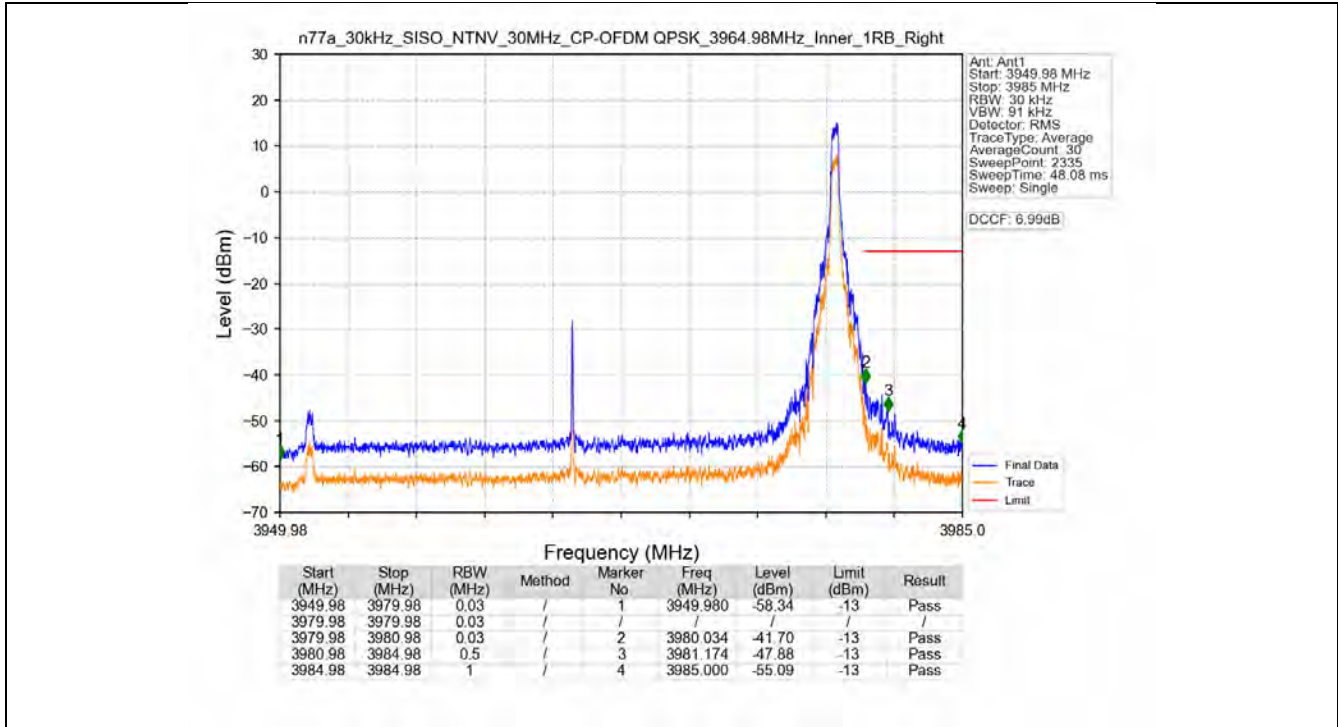


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Report No.: SZCR240100038409

Rev.: 01

Page: 494 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 495 of 973

## 5.3 30k\_SISO\_40MHz\_NTNV

### 5.3.1 Test Result

5G NR n77a SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3720	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3960	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3720	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3960	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	3720	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3960	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass



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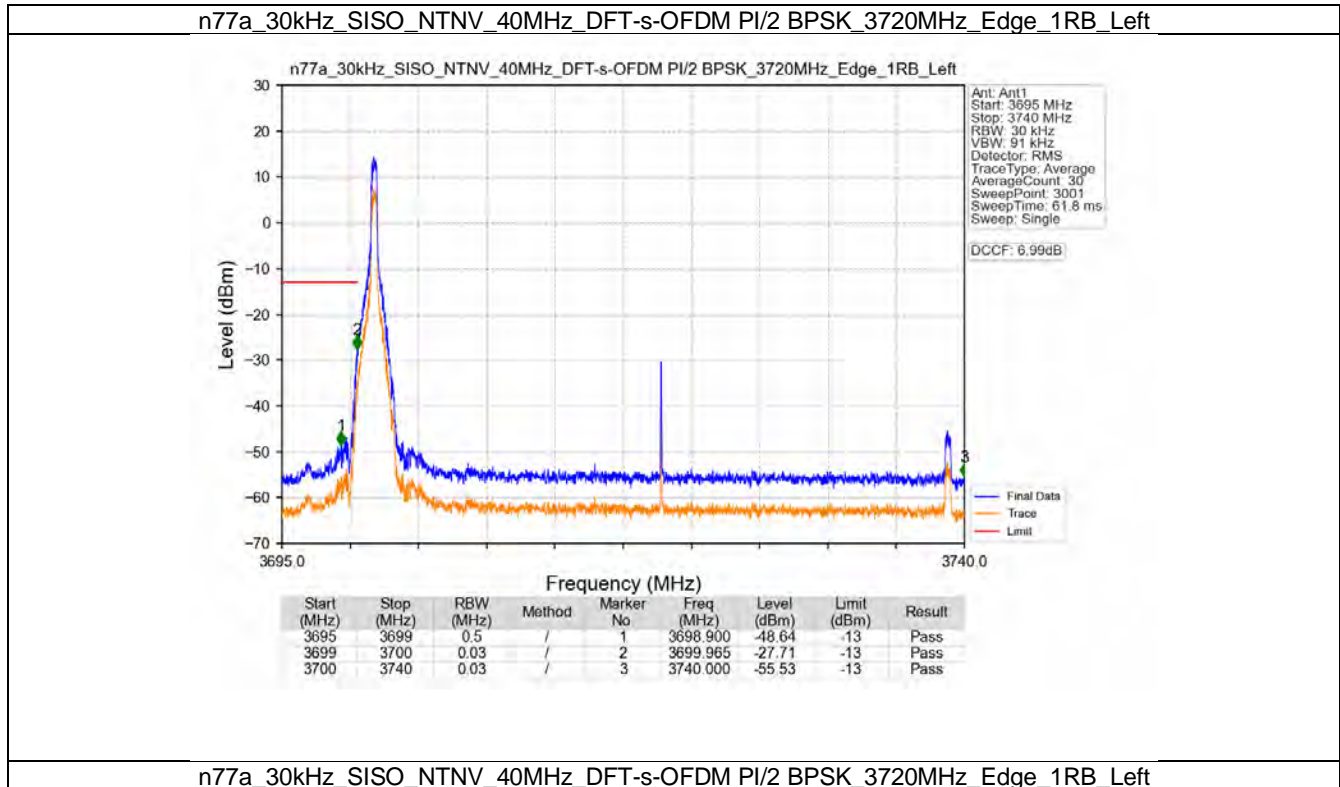
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Report No.: SZCR240100038409

Rev.: 01

Page: 496 of 973

5.3.2 Test Graph



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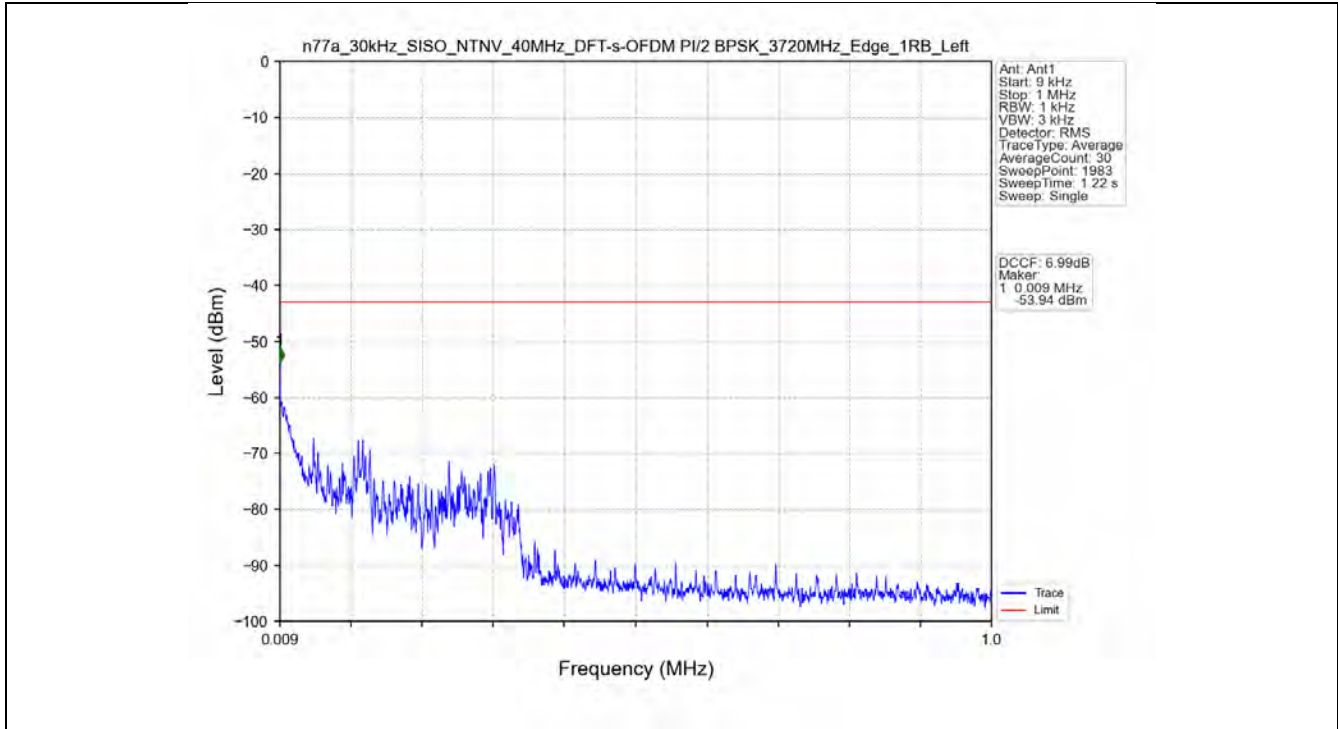


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Page: 497 of 973



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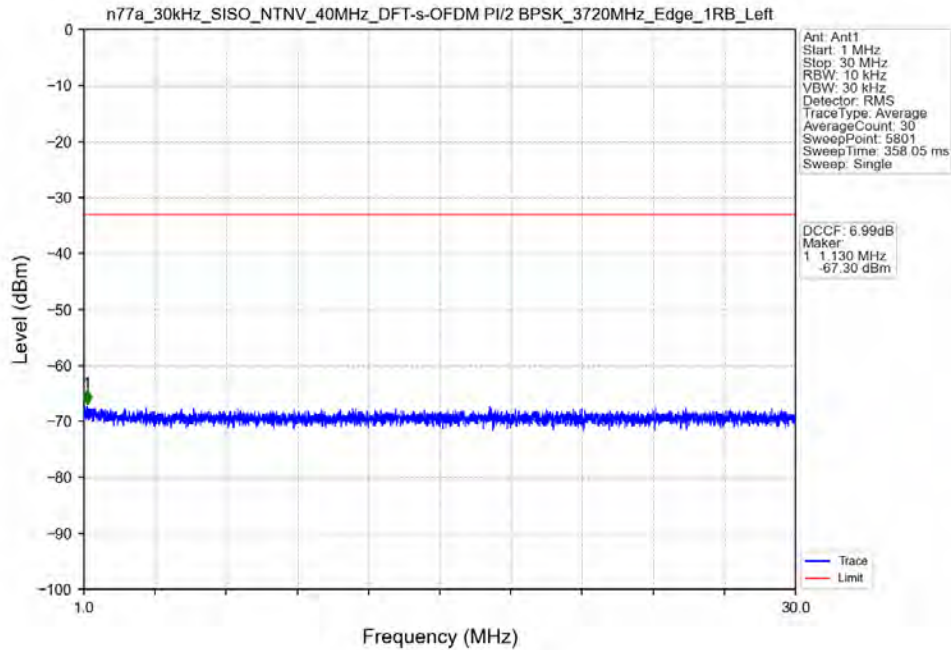
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Report No.: SZCR240100038409

Rev.: 01

Page: 498 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Edge\_1RB\_Left



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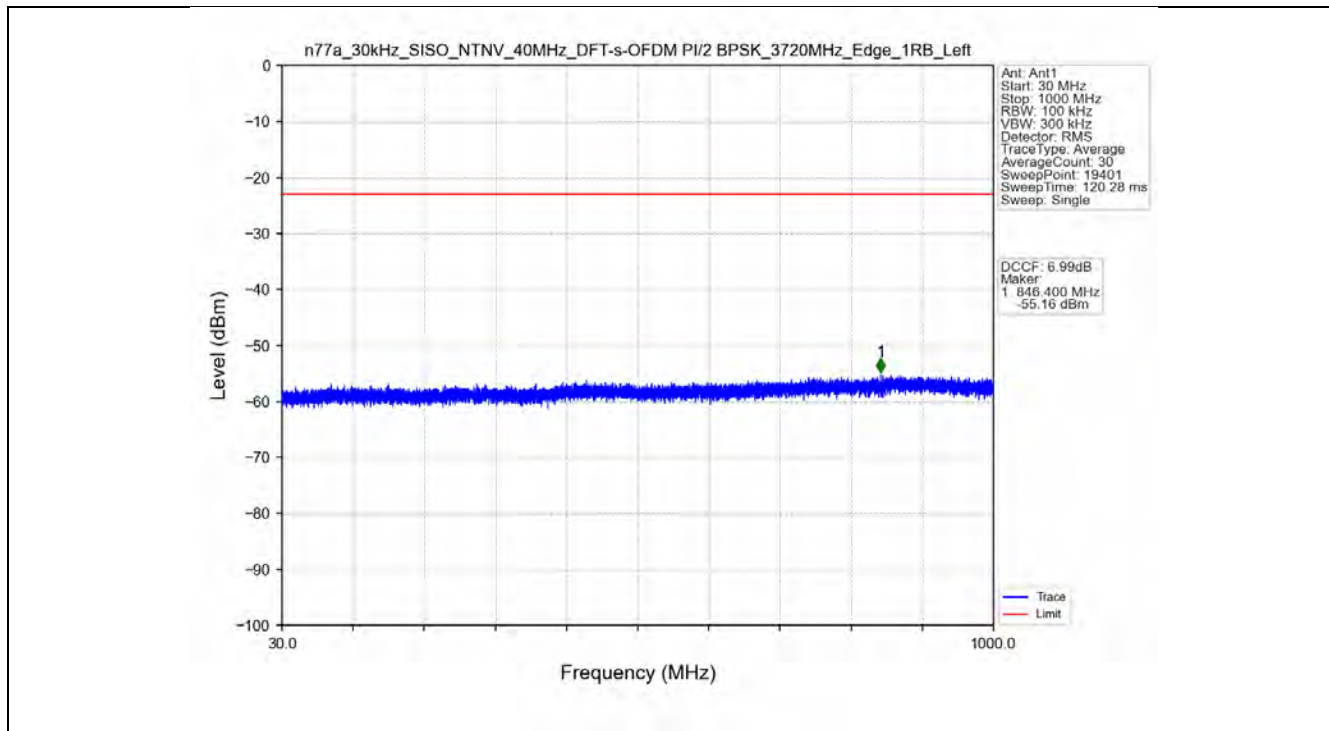
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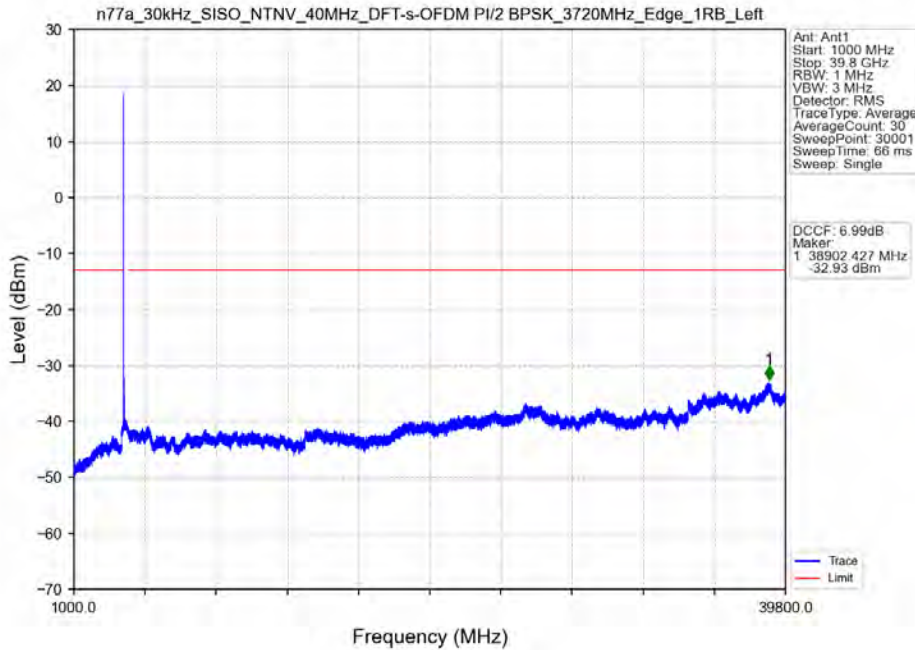
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Report No.: SZCR240100038409

Rev.: 01

Page: 500 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3720MHz\_Outer\_Full



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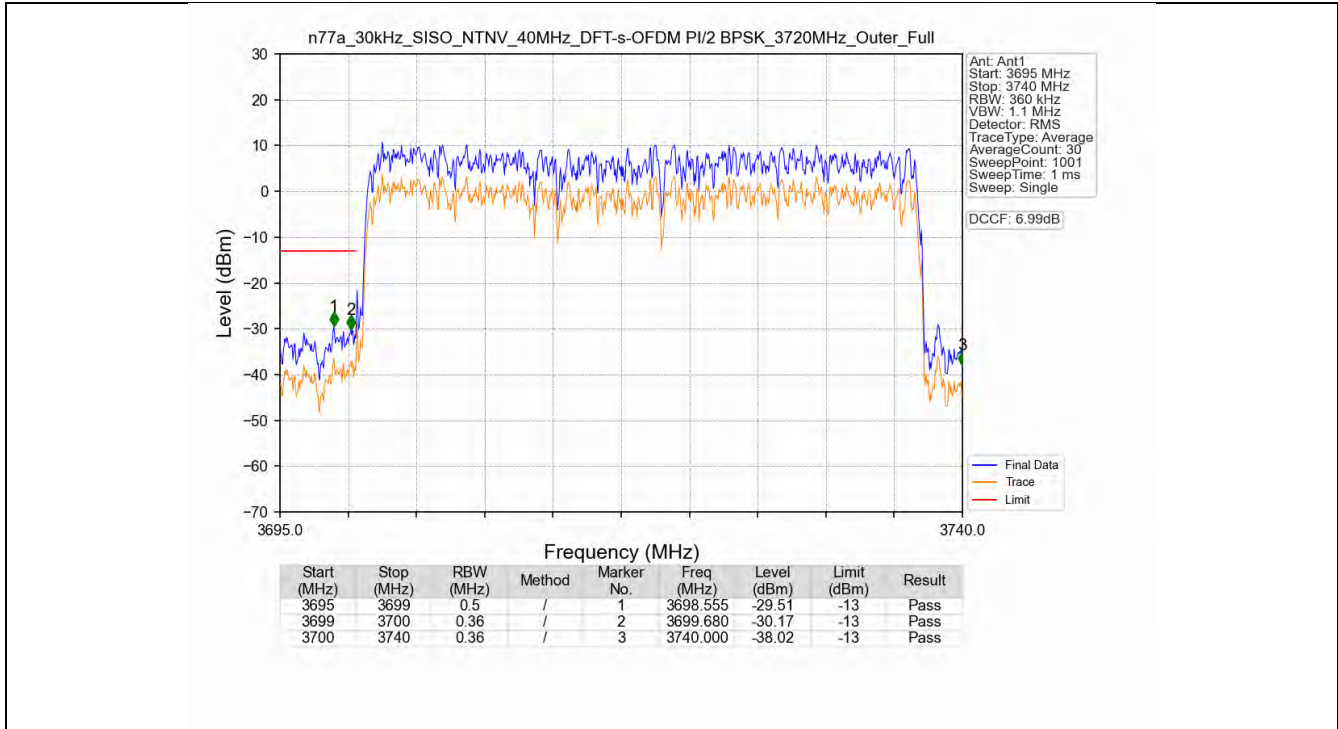


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Rev.: 01

Page: 501 of 973



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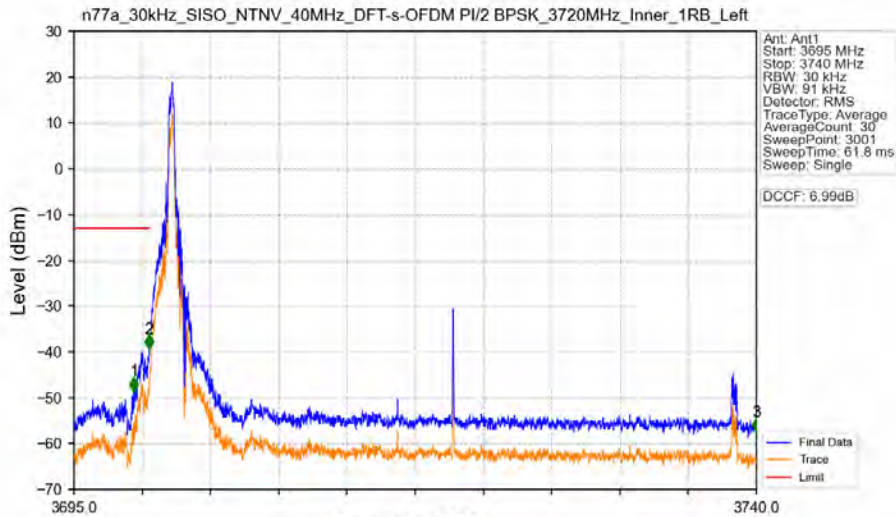
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Report No.: SZCR240100038409

Rev.: 01

Page: 502 of 973

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3699	0.5	/	1	3698.945	-48.57	-13	Pass
3699	3700	0.03	/	2	3699.965	-39.26	-13	Pass
3700	3740	0.03	/	3	3740.000	-57.53	-13	Pass

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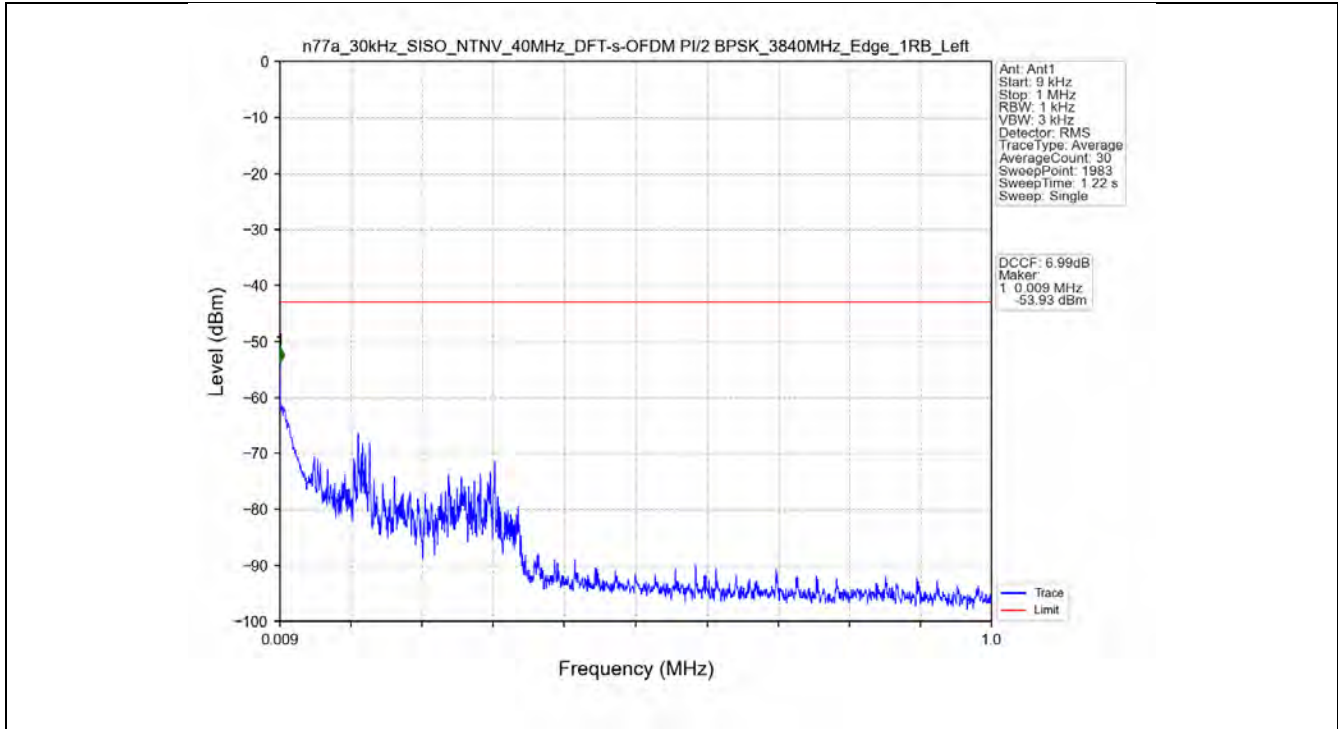


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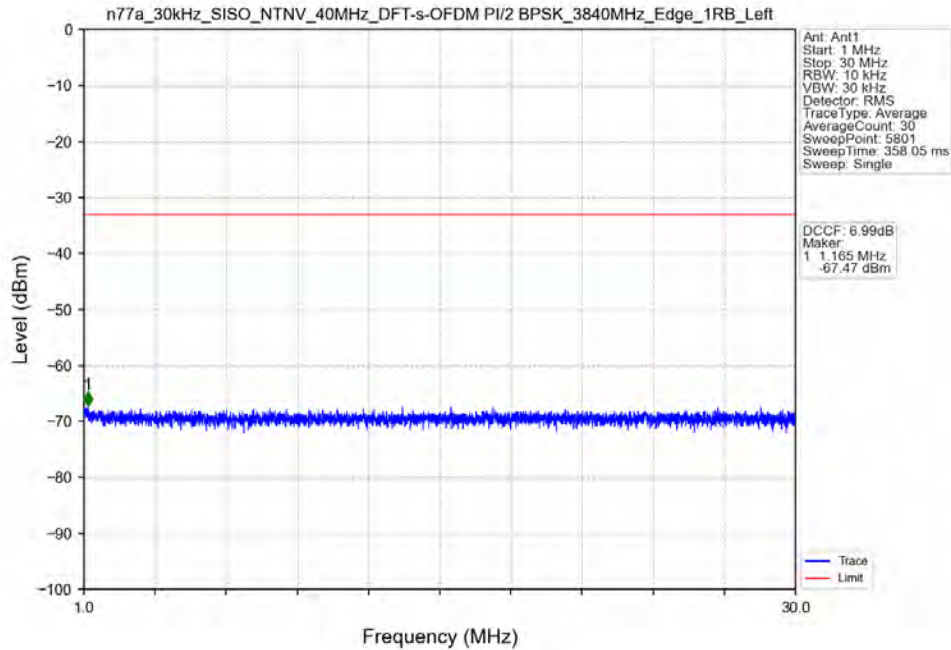
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Rev.: 01

Page: 504 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3840MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3840MHz\_Edge\_1RB\_Left



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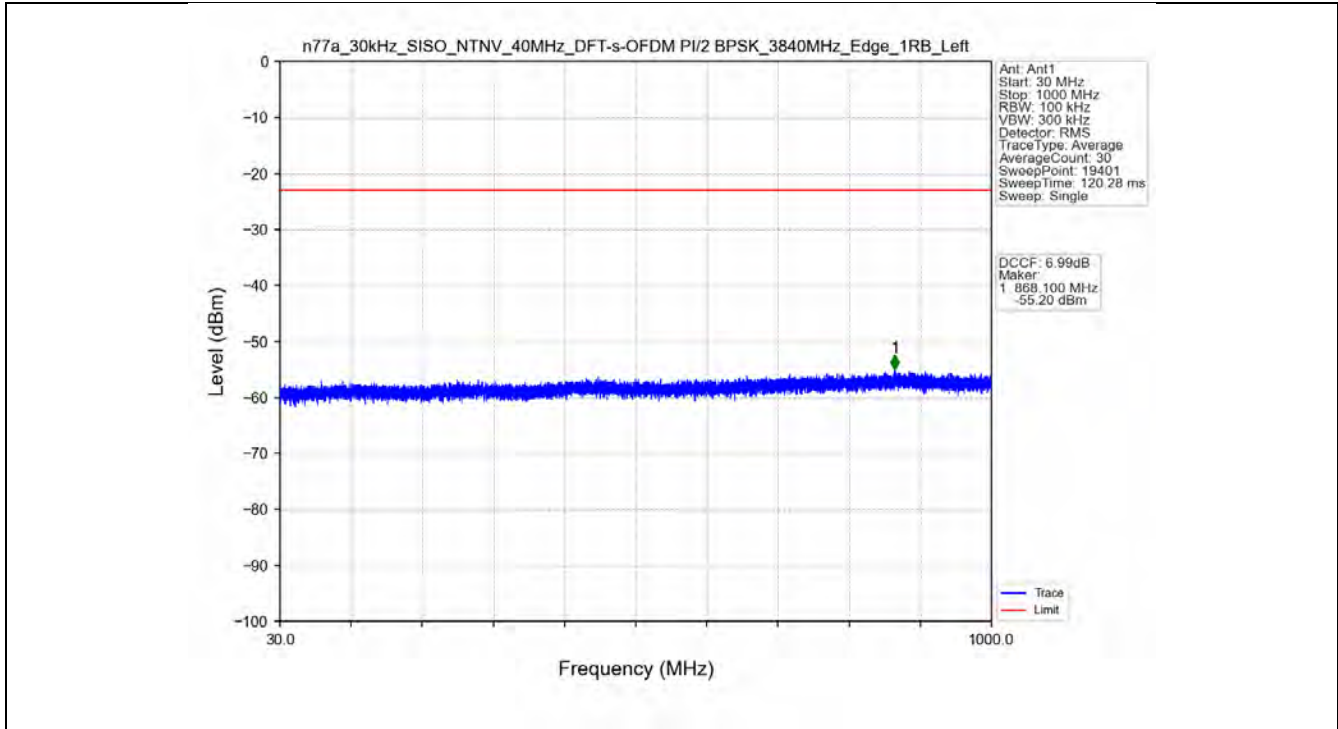


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Report No.: SZCR240100038409

Rev.: 01

Page: 505 of 973



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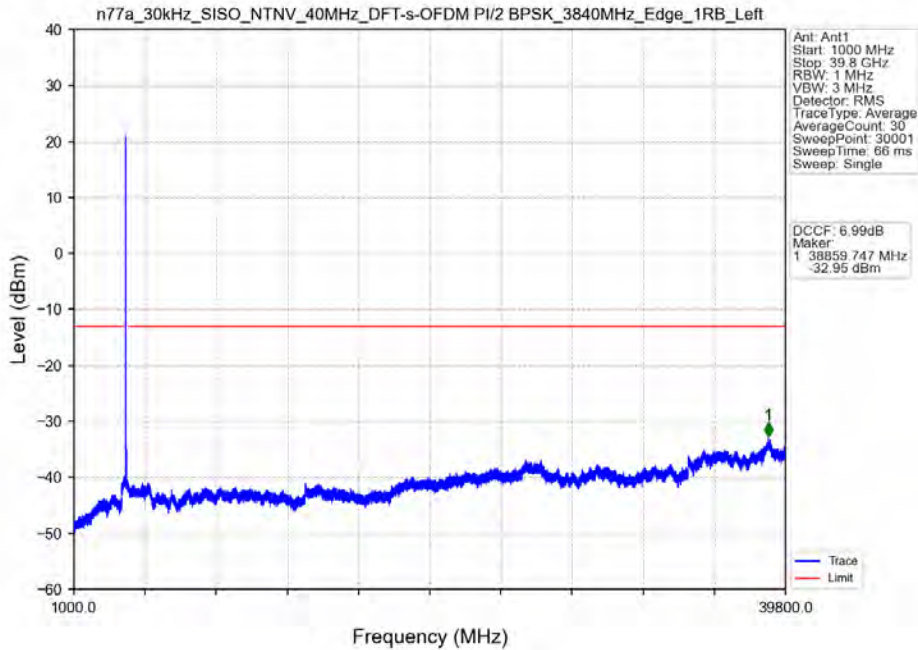
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Report No.: SZCR240100038409

Rev.: 01

Page: 506 of 973

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n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM PI/2 BPSK\_3960MHz\_Edge\_1RB\_Right



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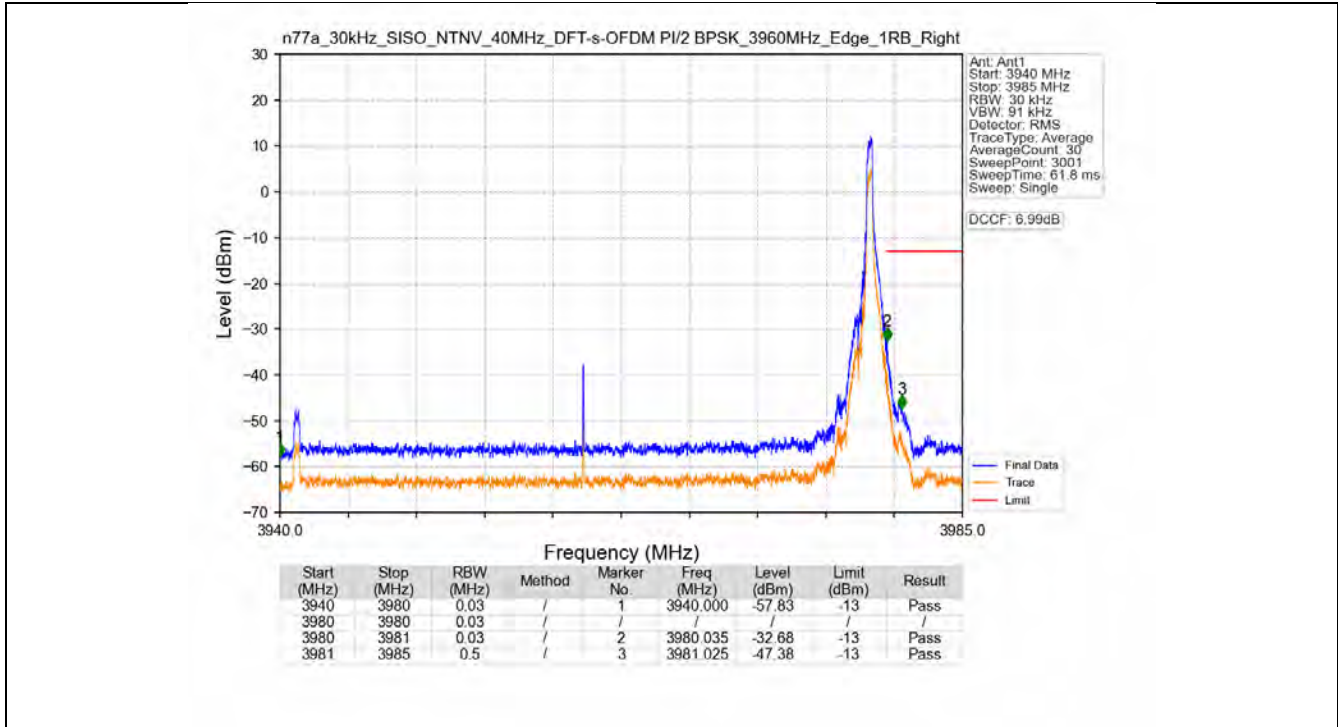


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Report No.: SZCR240100038409

Rev.: 01

Page: 507 of 973



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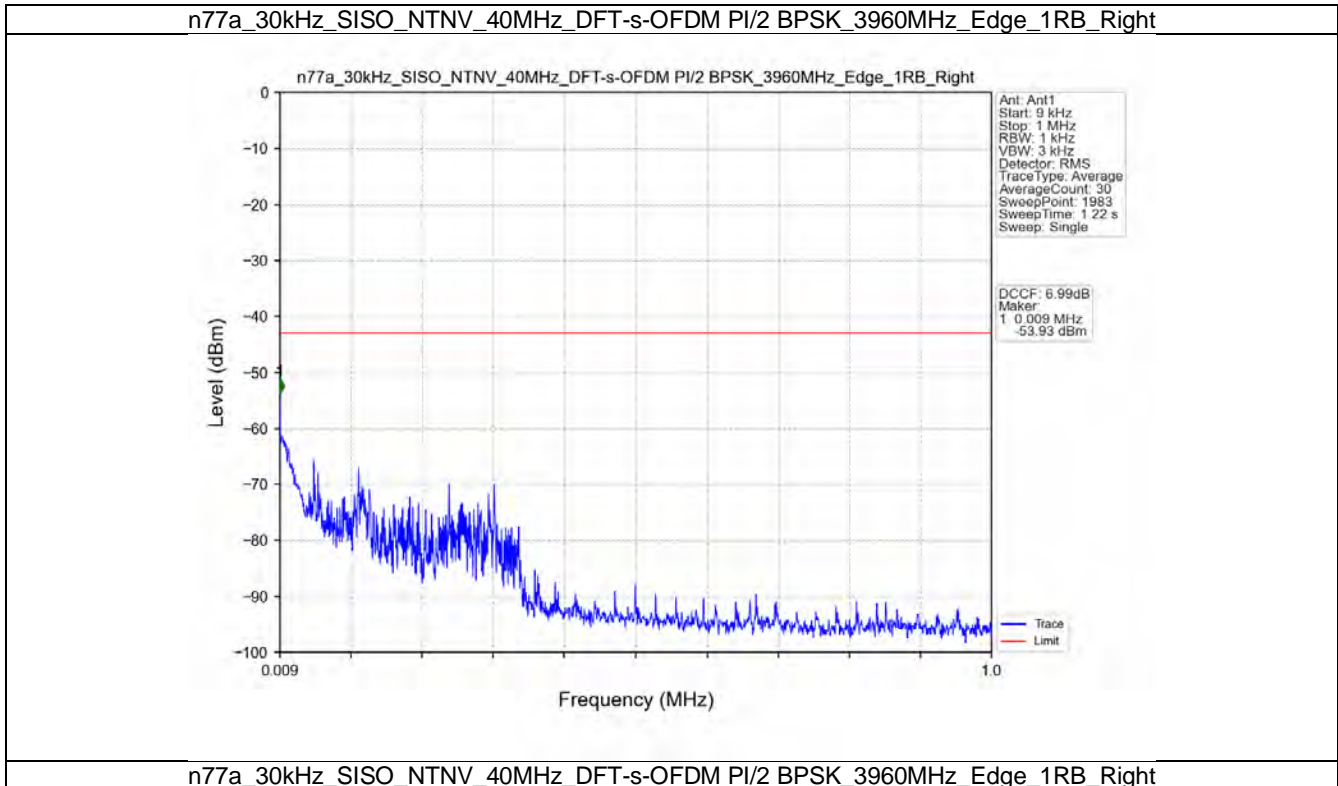


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Report No.: SZCR240100038409

Rev.: 01

Page: 508 of 973



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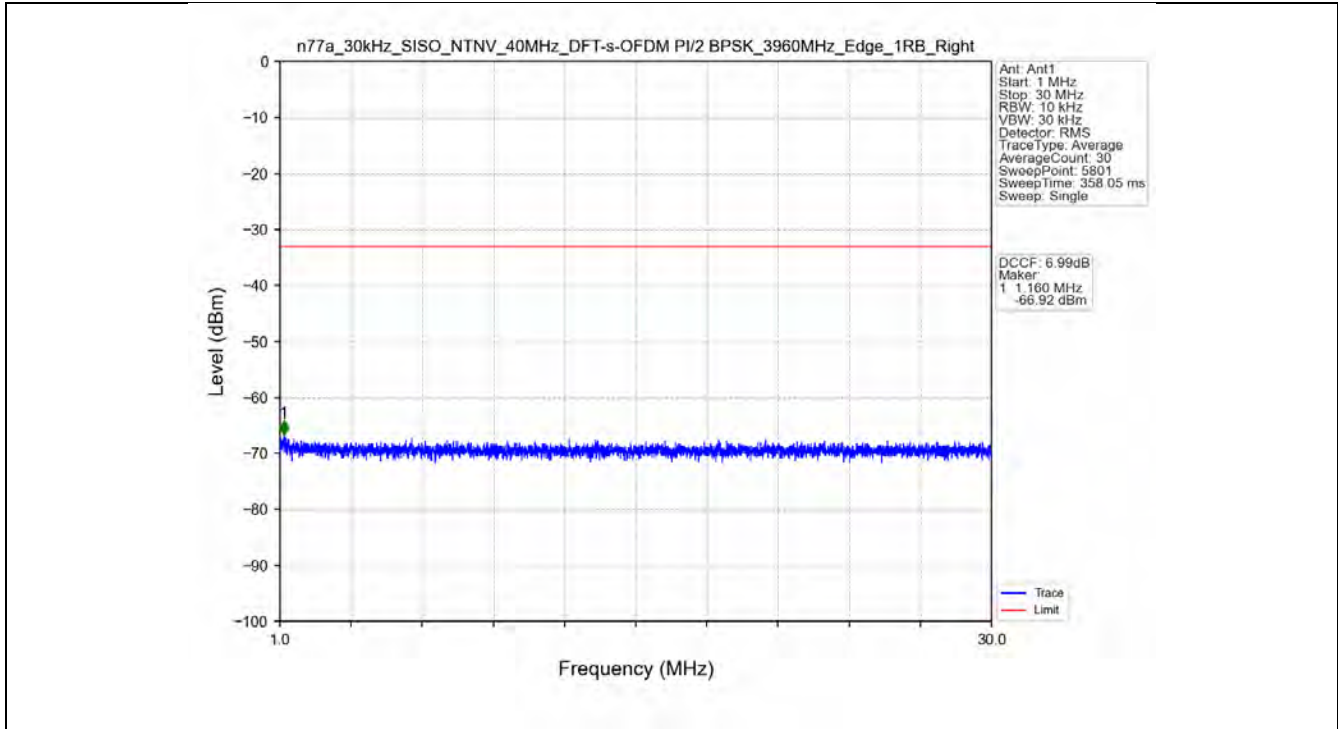


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Report No.: SZCR240100038409

Rev.: 01

Page: 509 of 973



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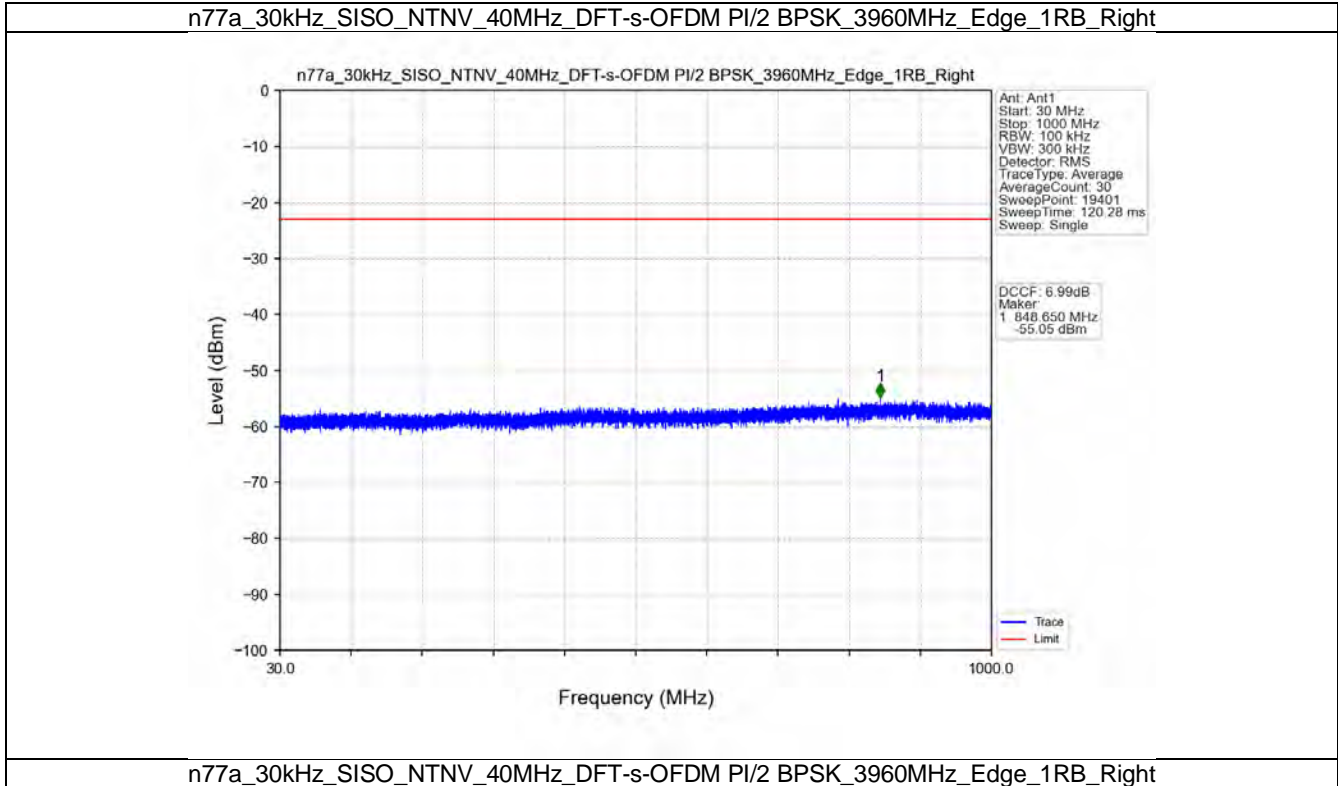


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Report No.: SZCR240100038409

Rev.: 01

Page: 510 of 973



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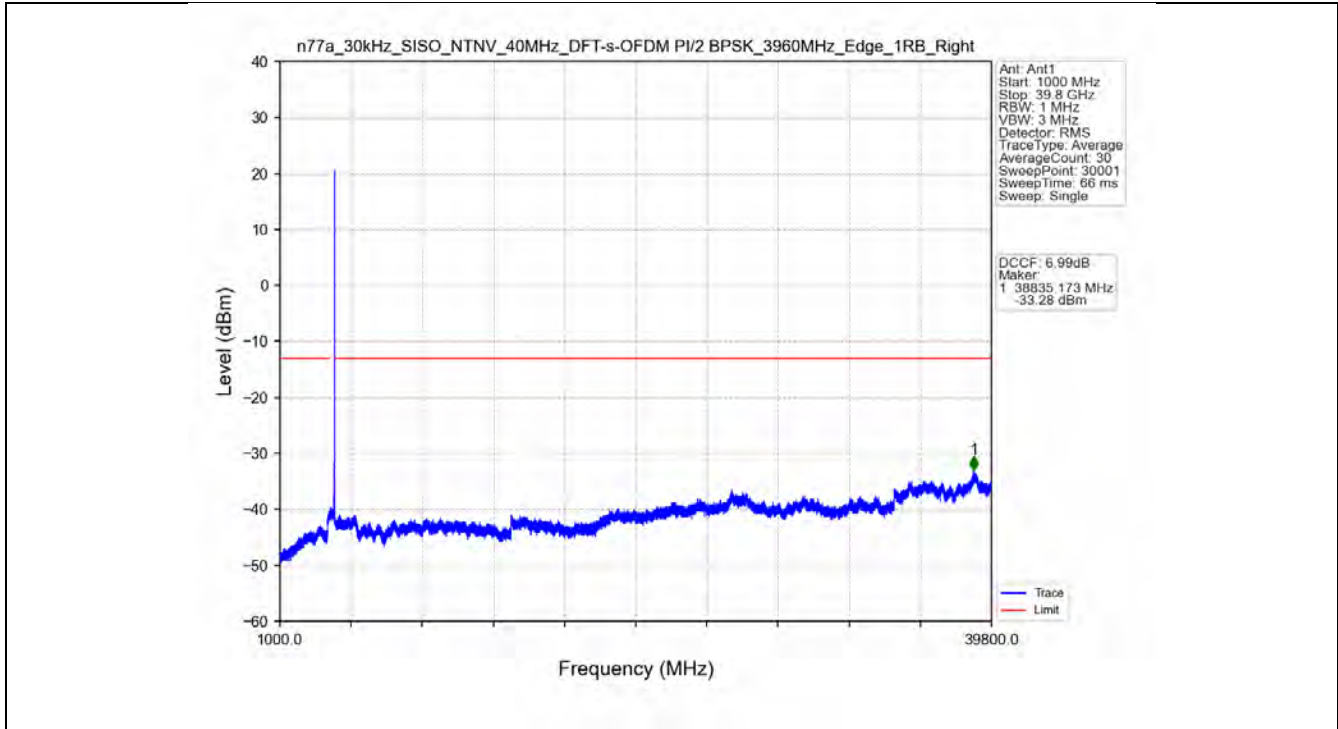


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Report No.: SZCR240100038409

Rev.: 01

Page: 511 of 973



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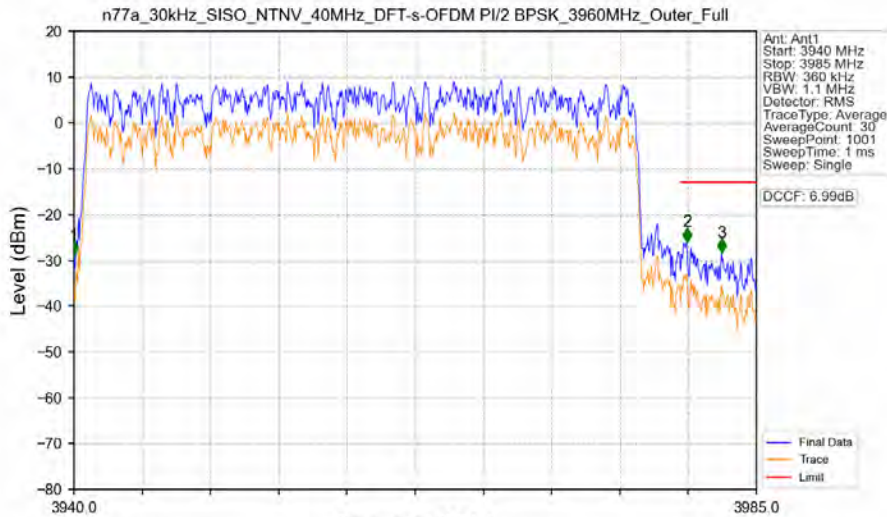
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Report No.: SZCR240100038409

Rev.: 01

Page: 512 of 973

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3940	3980	0.36	/	1	3940.000	-28.82	-13	Pass
3980	3980	0.36	/	/	/	/	/	/
3980	3981	0.36	/	2	3980.410	-25.95	-13	Pass
3981	3985	0.5	/	3	3982.705	-28.39	-13	Pass

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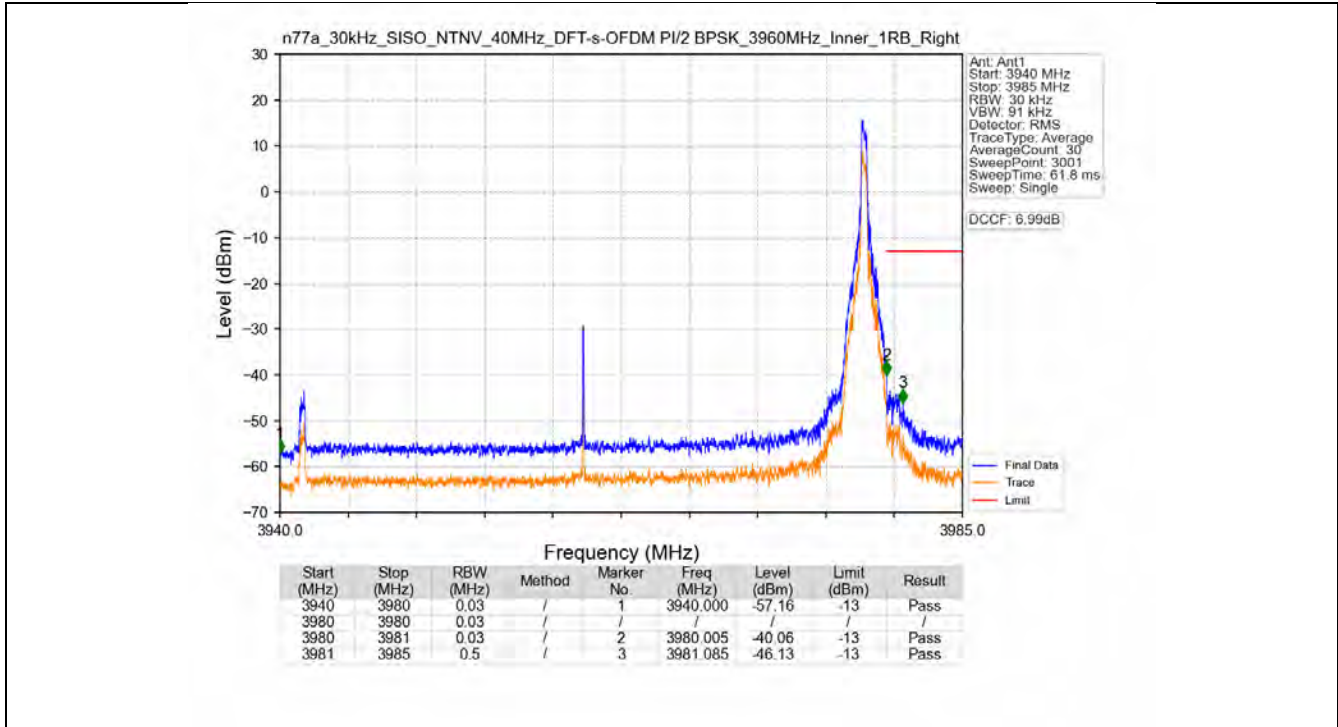


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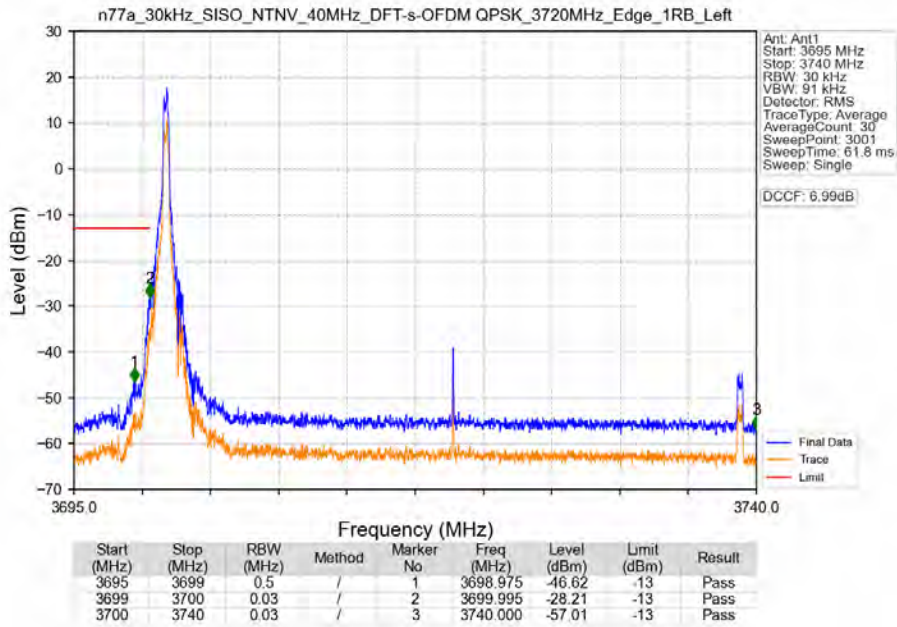
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Report No.: SZCR240100038409

Rev.: 01

Page: 514 of 973

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n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3720MHz\_Edge\_1RB\_Left



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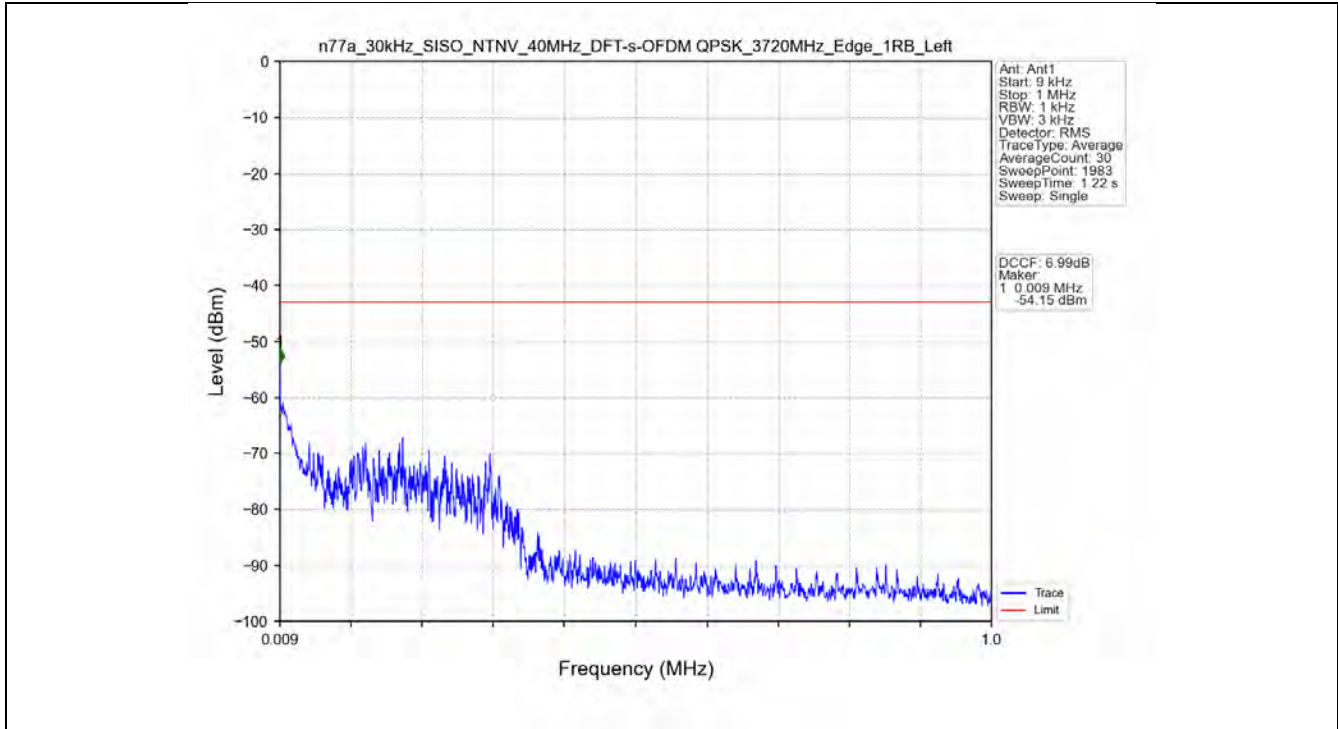


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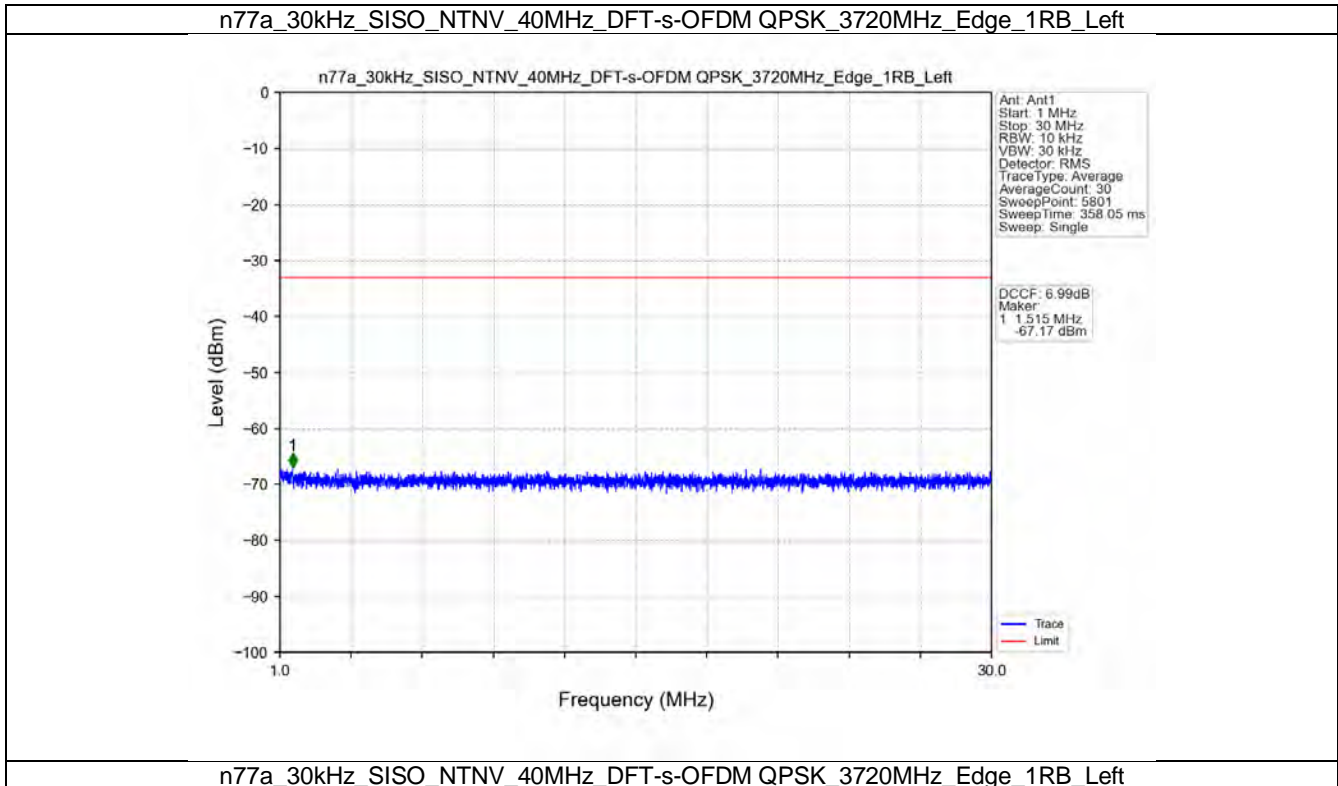


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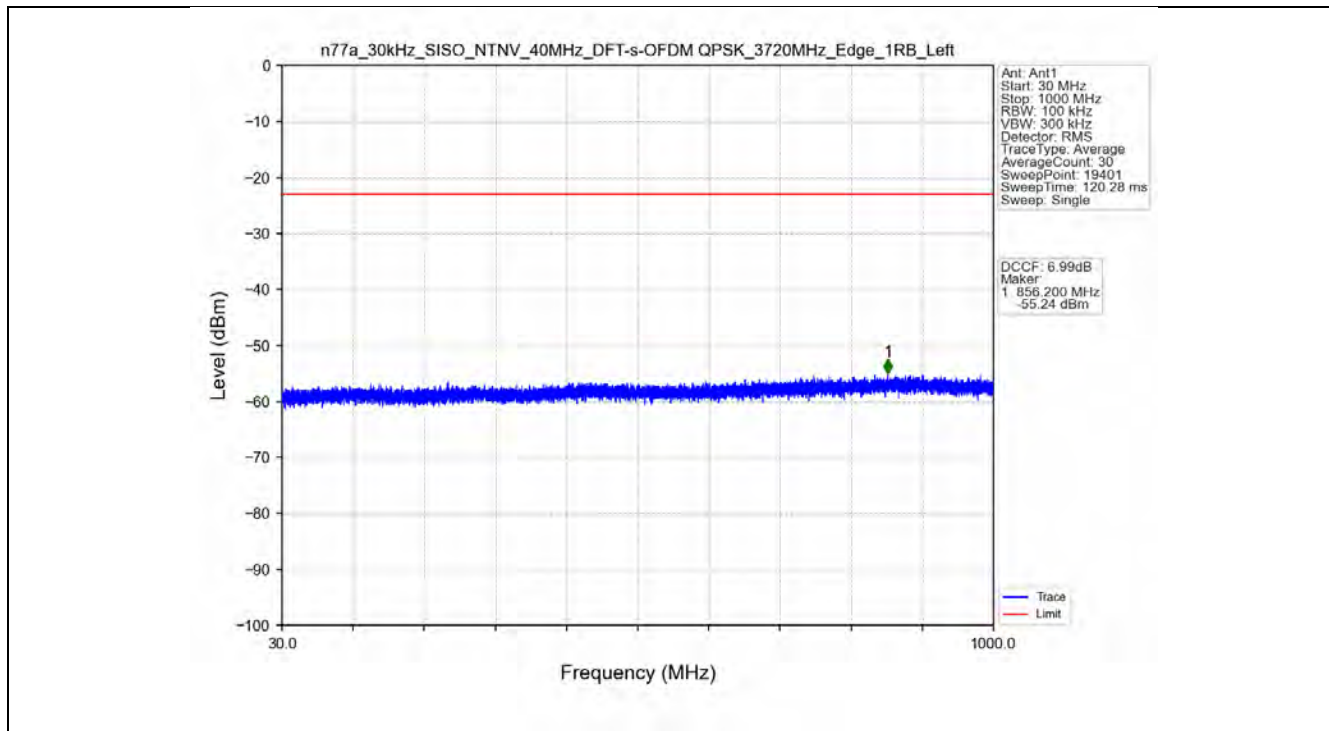
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 Page: 517 of 973



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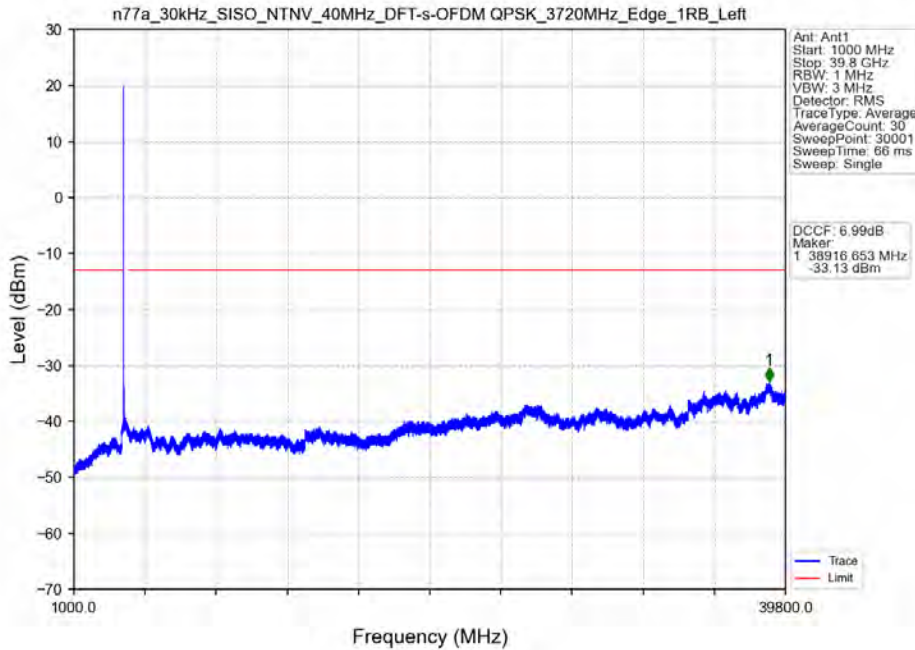
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Report No.: SZCR240100038409

Rev.: 01

Page: 518 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3720MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3720MHz\_Outer\_Full



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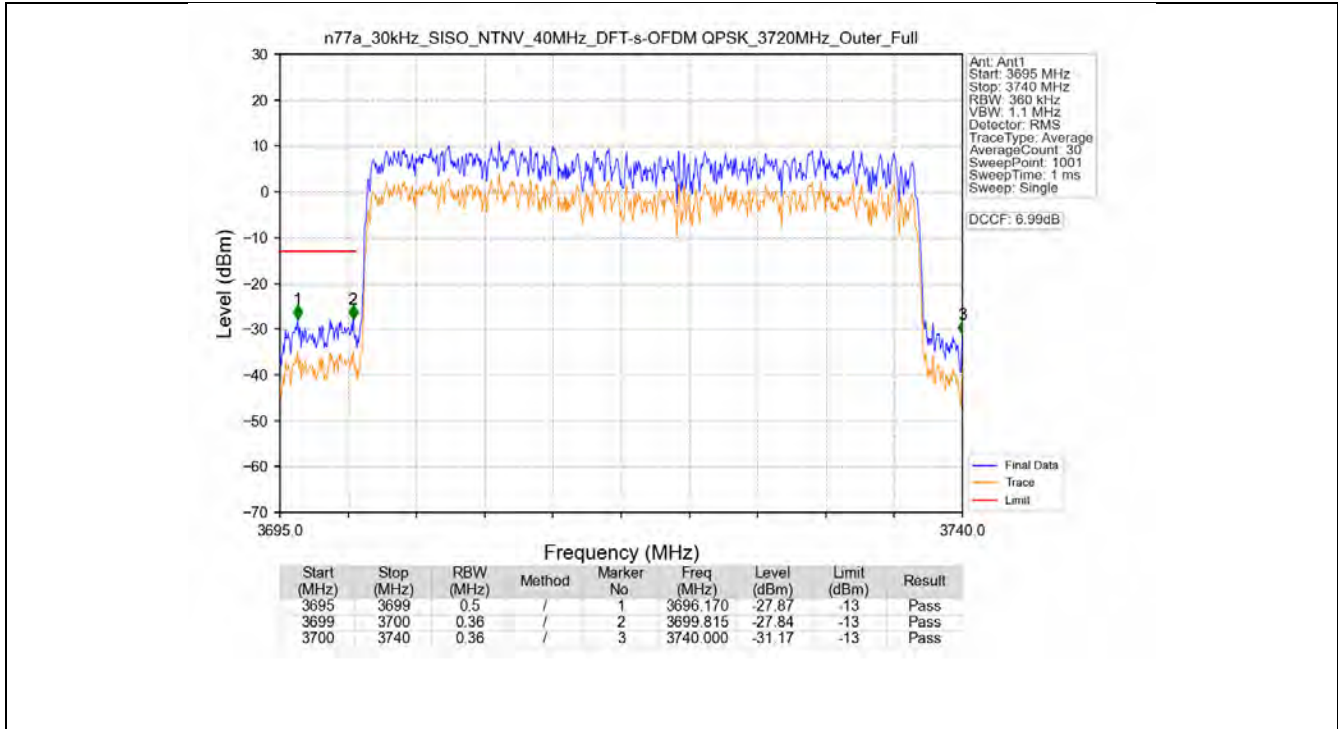


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Report No.: SZCR240100038409

Rev.: 01

Page: 519 of 973



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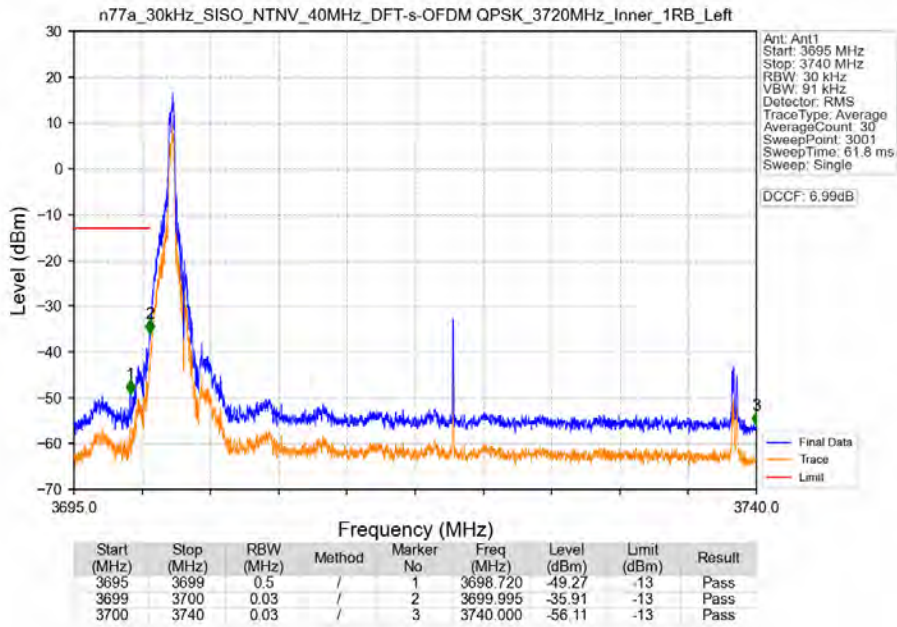
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Report No.: SZCR240100038409

Rev.: 01

Page: 520 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3720MHz\_Inner\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3840MHz\_Edge\_1RB\_Left



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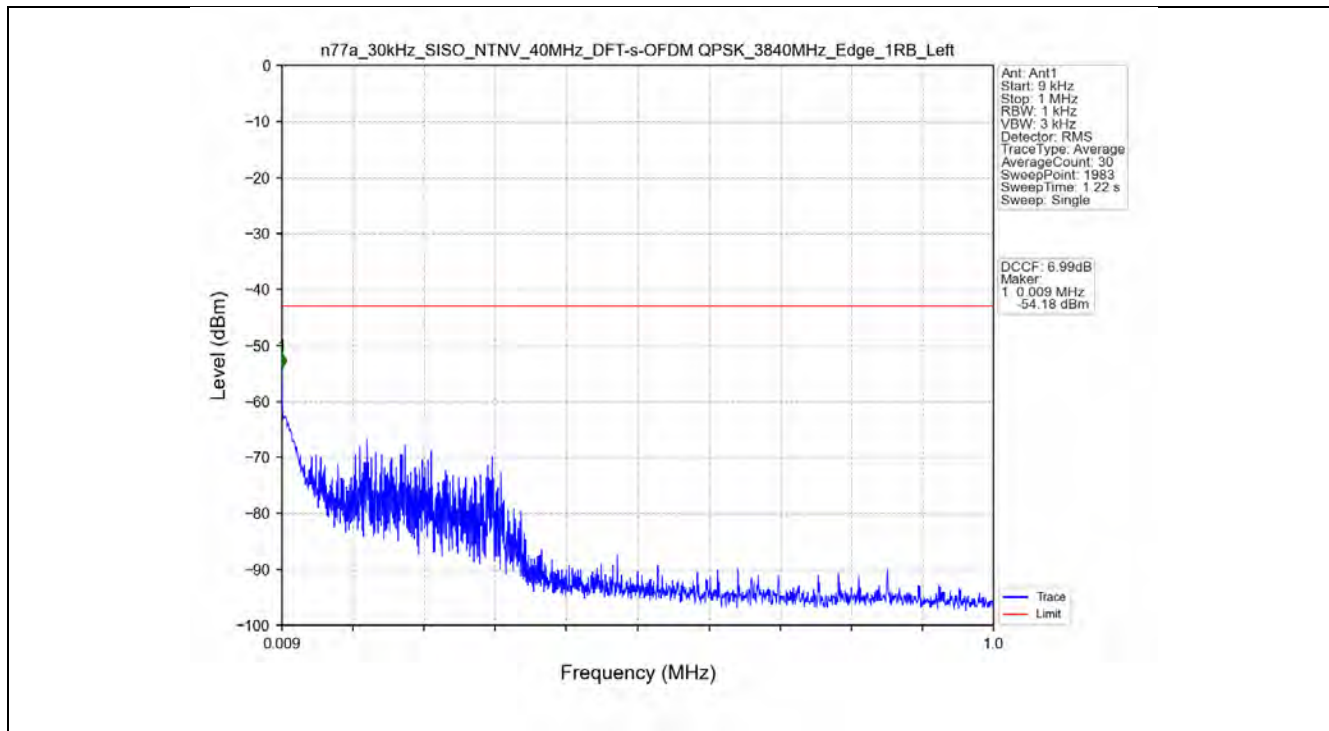
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 521 of 973



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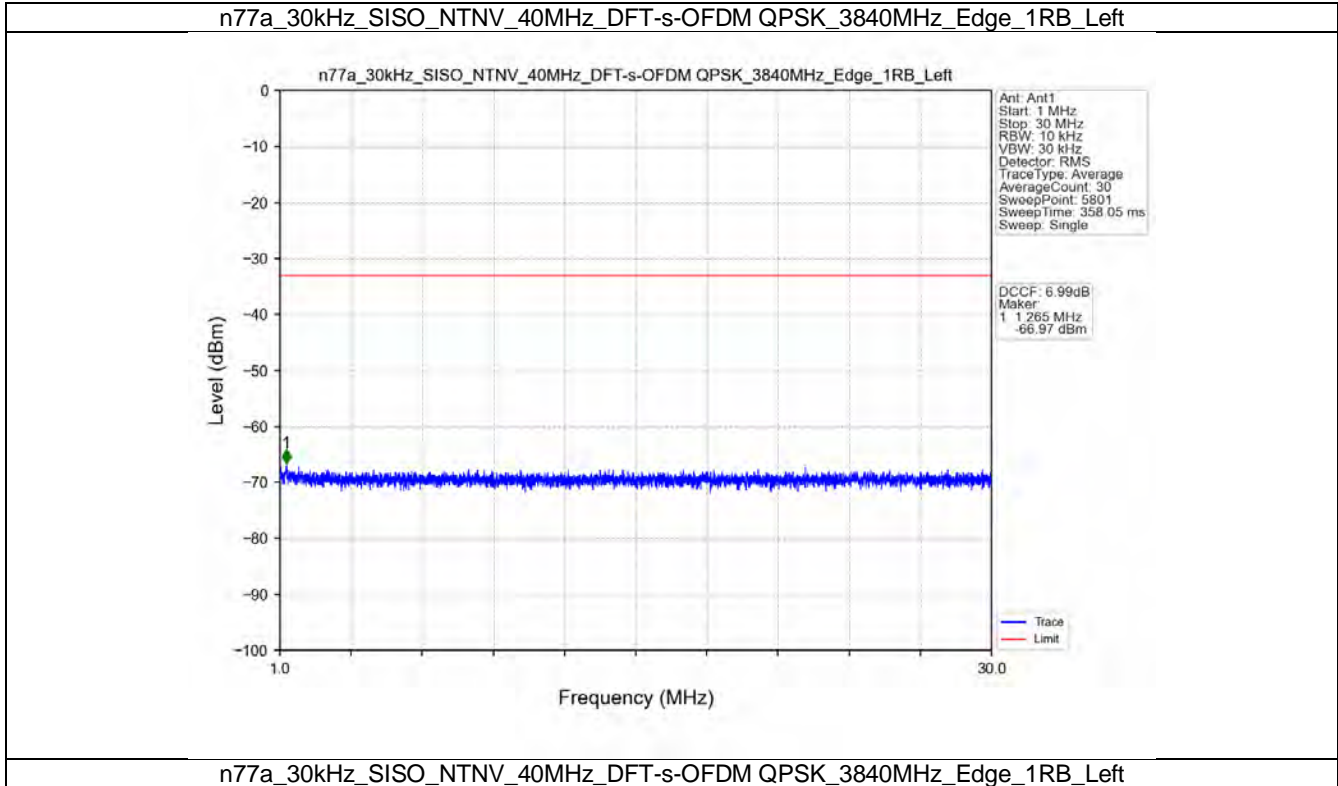


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Report No.: SZCR240100038409

Rev.: 01

Page: 522 of 973



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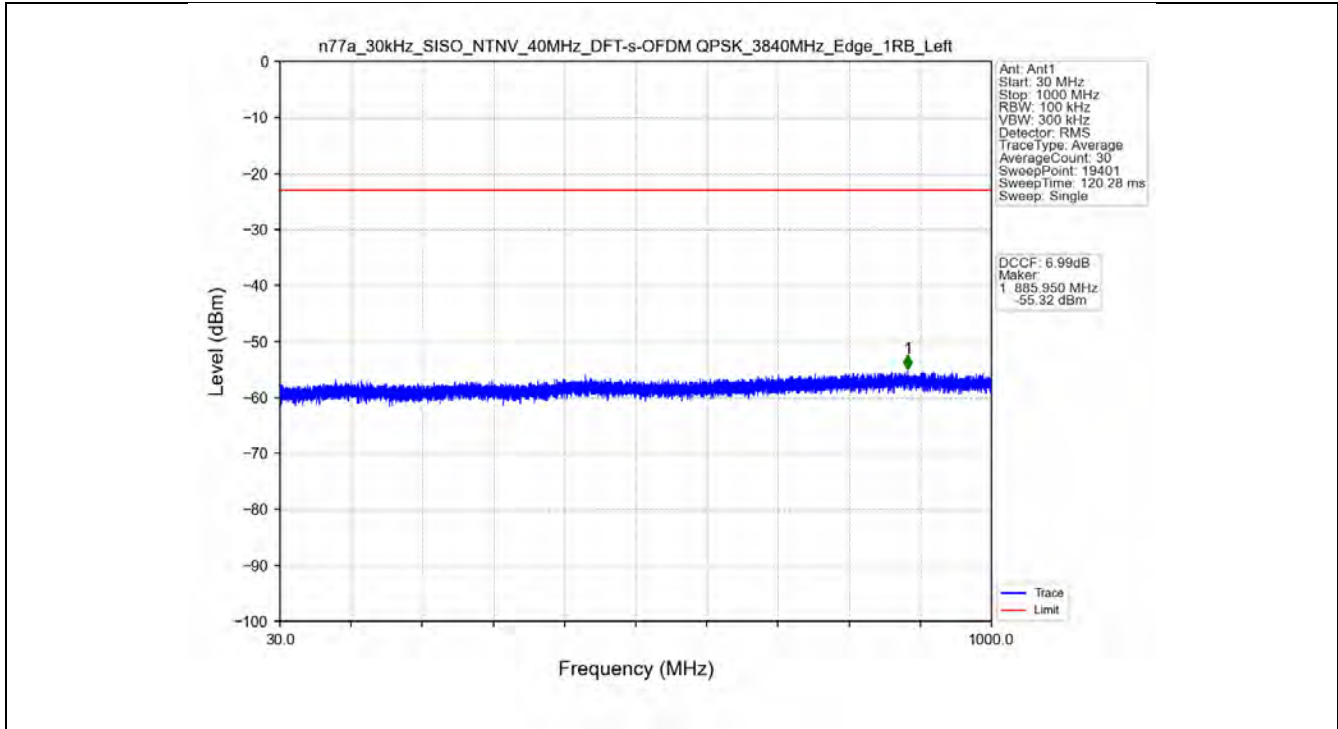


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Report No.: SZCR240100038409

Rev.: 01

Page: 523 of 973



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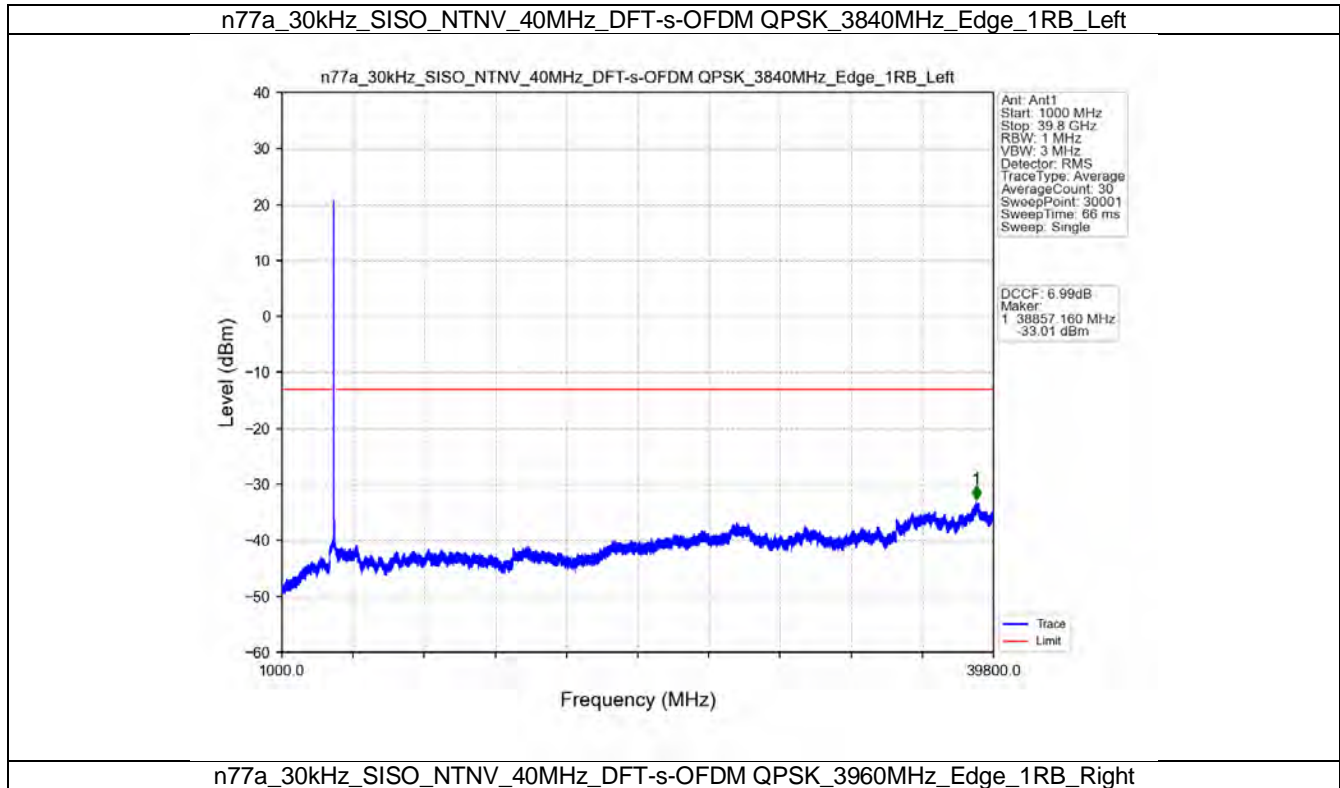


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Report No.: SZCR240100038409

Rev.: 01

Page: 524 of 973



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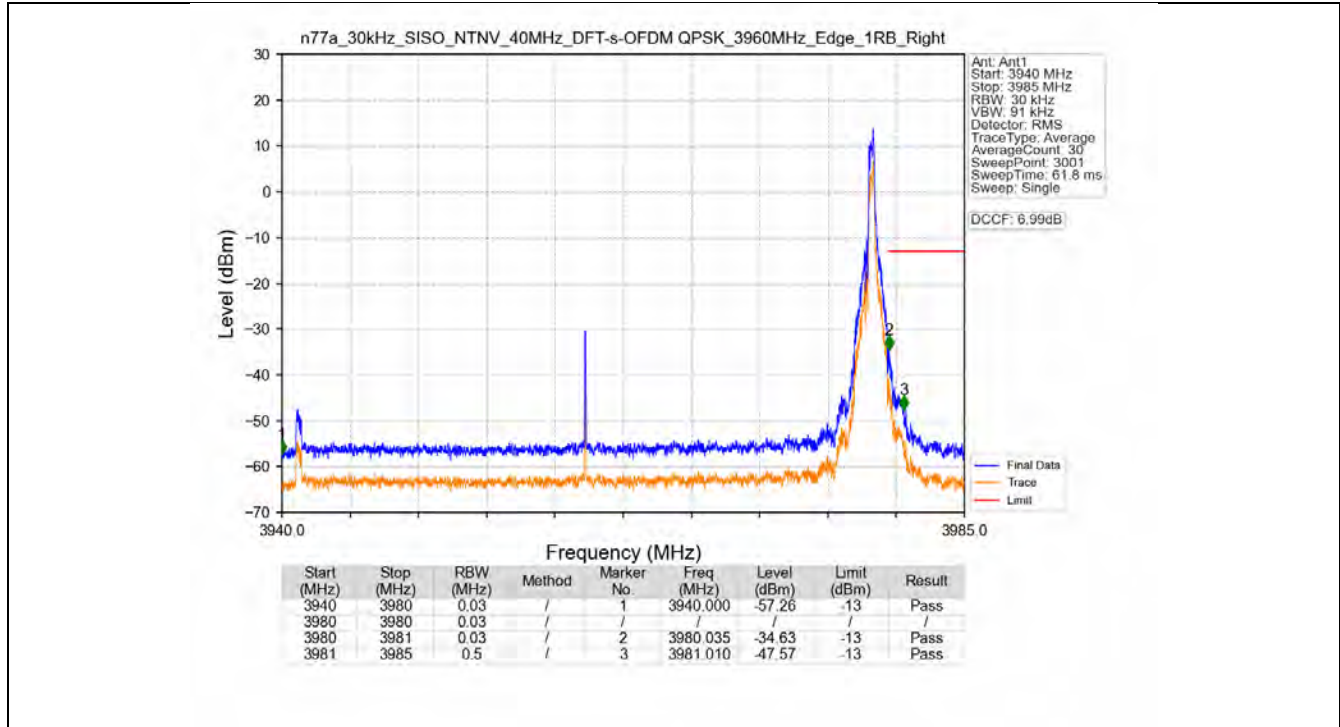


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Rev.: 01

Page: 525 of 973



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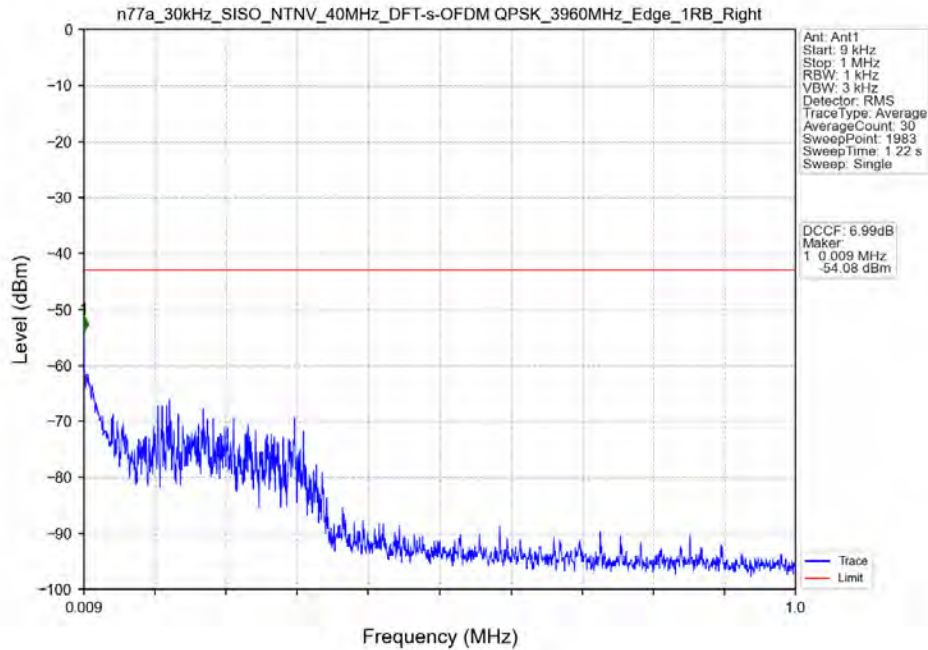
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Report No.: SZCR240100038409

Rev.: 01

Page: 526 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3960MHz\_Edge\_1RB\_Right



n77a\_30kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM\_QPSK\_3960MHz\_Edge\_1RB\_Right



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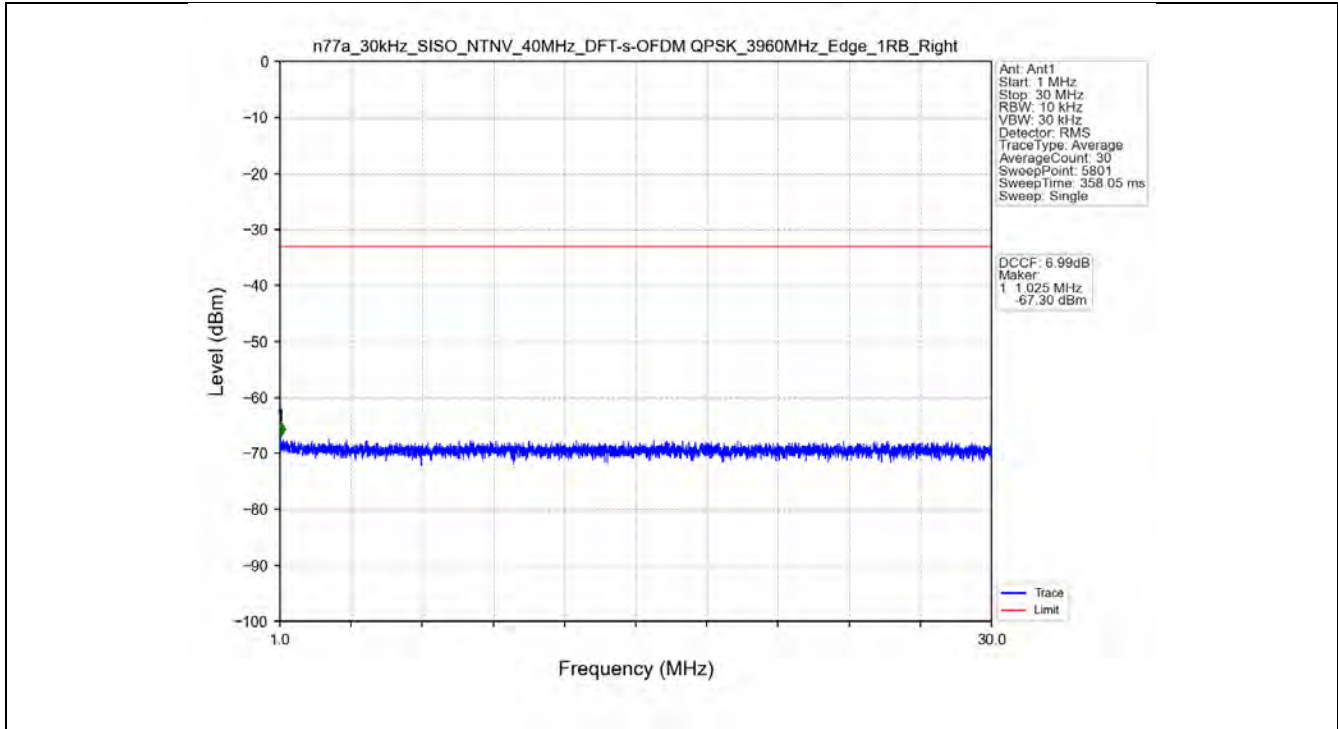


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Page: 527 of 973



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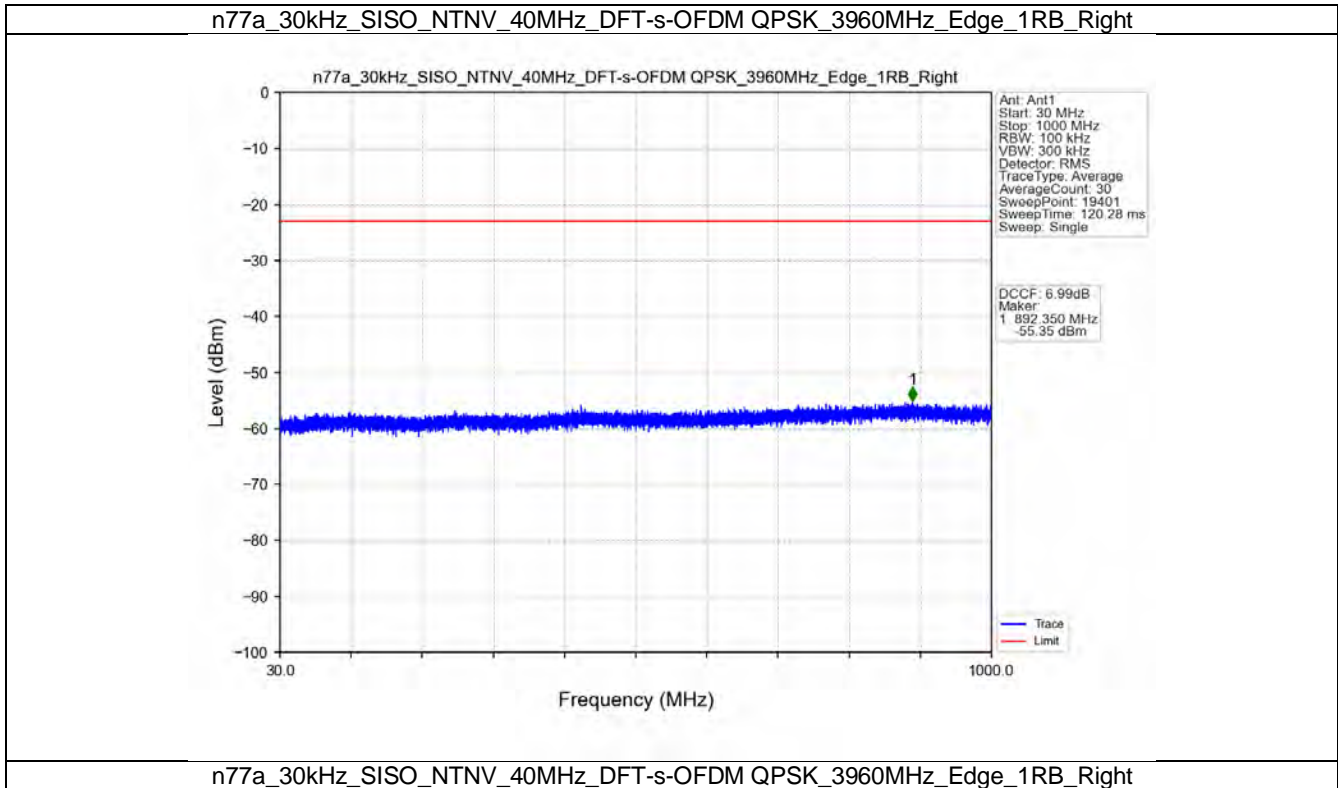


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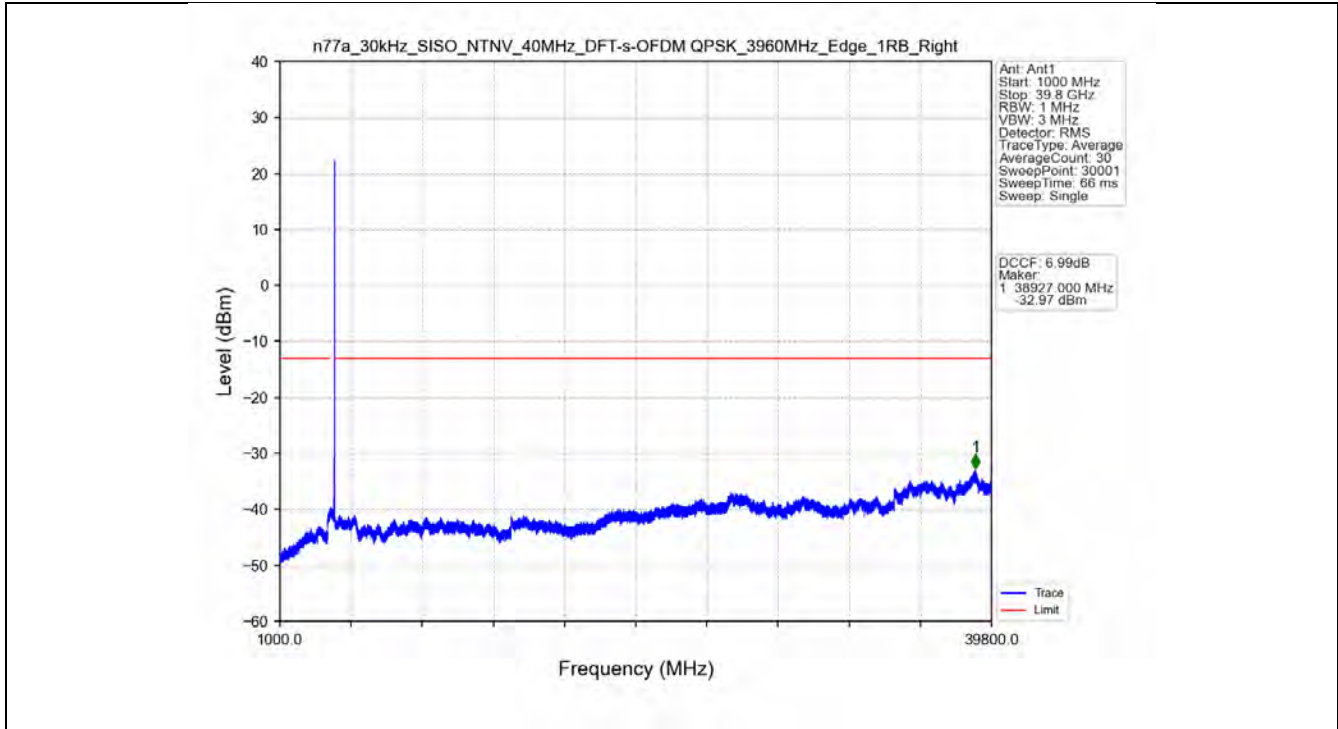


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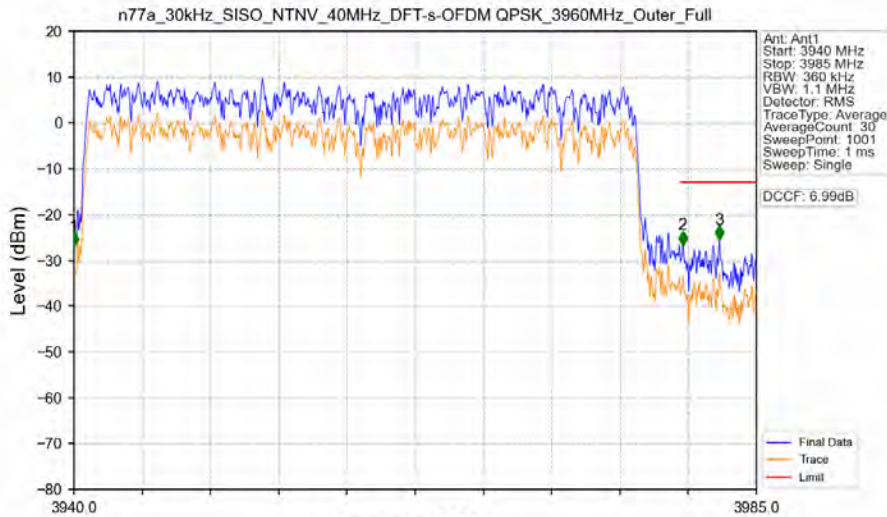
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Report No.: SZCR240100038409

Rev.: 01

Page: 530 of 973

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3940	3980	0.36	/	1	3940.000	-26.90	-13	Pass
3980	3980	0.36	/	/	/	/	/	/
3980	3981	0.36	/	2	3980.140	-26.66	-13	Pass
3981	3985	0.5	/	3	3982.570	-25.54	-13	Pass

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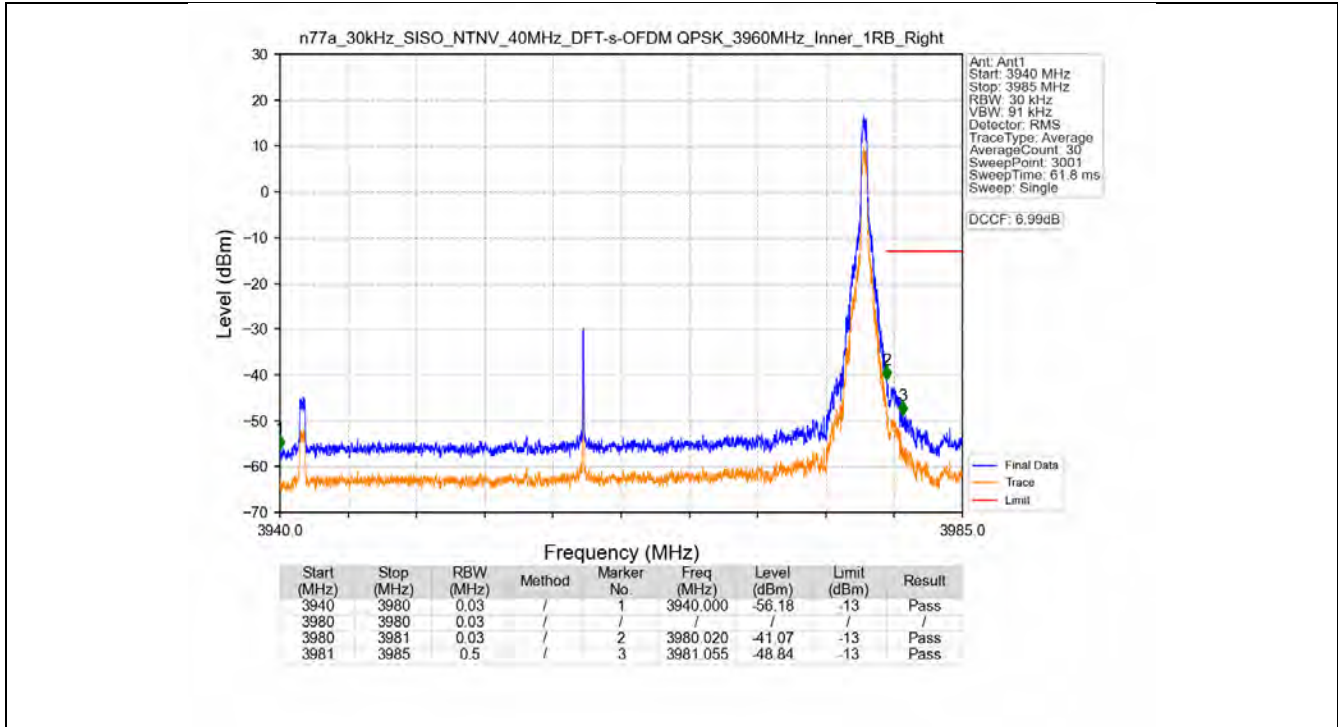


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Report No.: SZCR240100038409

Rev.: 01

Page: 531 of 973



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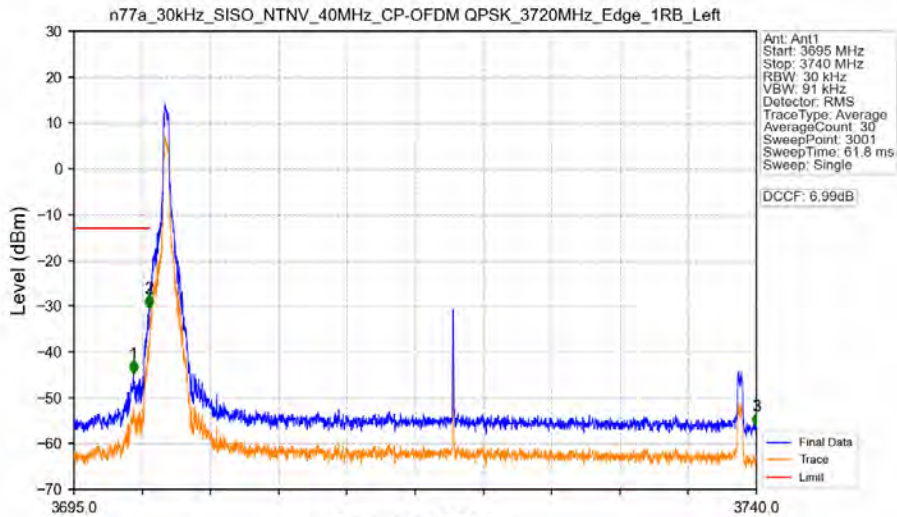
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Report No.: SZCR240100038409

Rev.: 01

Page: 532 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3720MHz\_Edge\_1RB\_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3695	3699	0.5	/	1	3698.915	-44.82	-13	Pass
3699	3700	0.03	/	2	3699.965	-30.50	-13	Pass
3700	3740	0.03	/	3	3740.000	-56.23	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3720MHz\_Edge\_1RB\_Left



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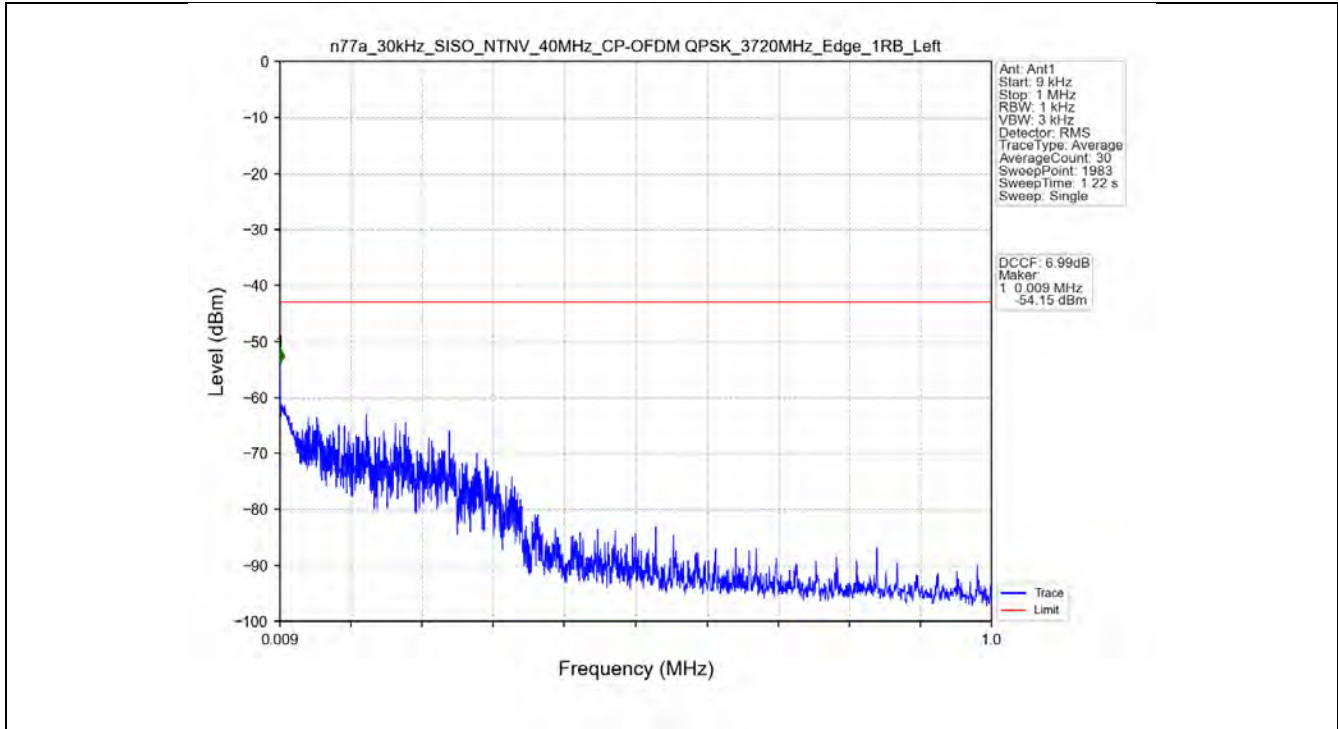


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Report No.: SZCR240100038409

Rev.: 01

Page: 533 of 973



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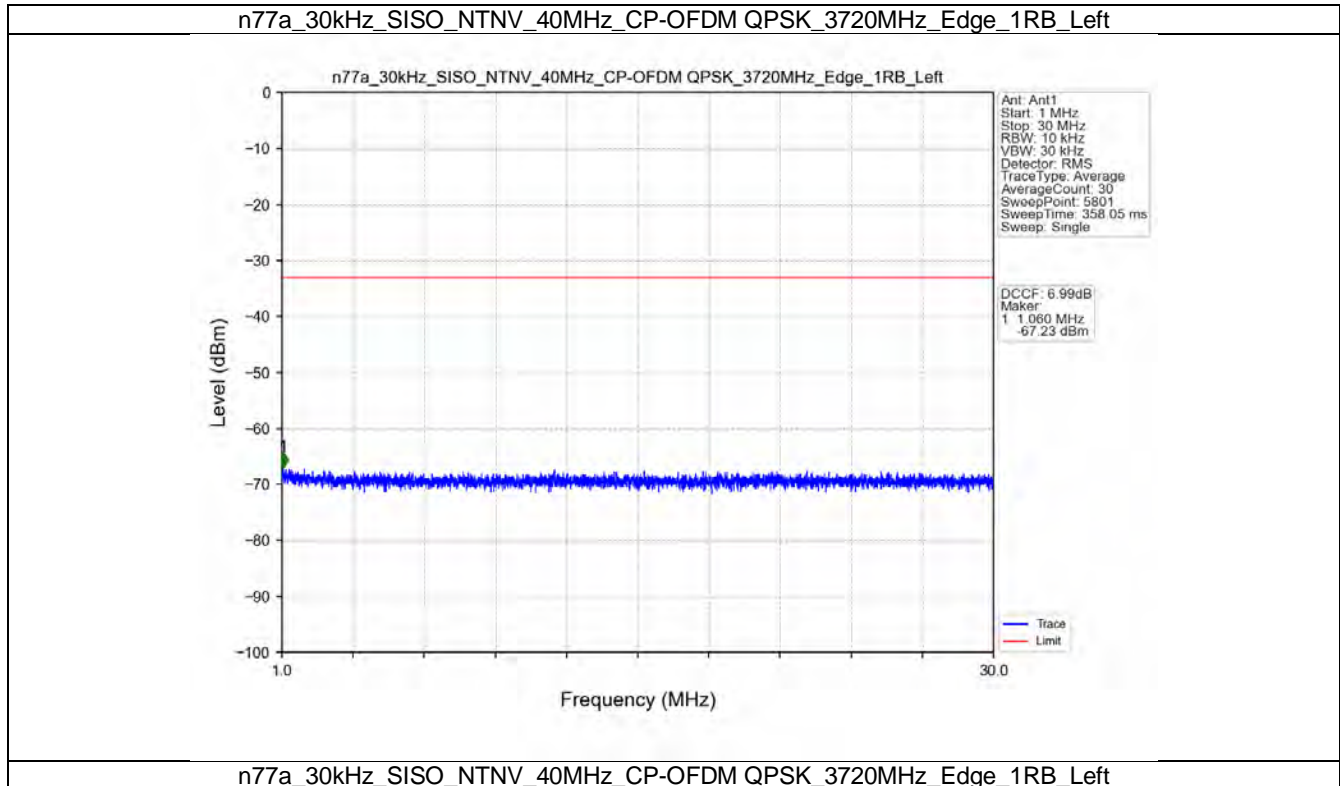


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Report No.: SZCR240100038409

Rev.: 01

Page: 534 of 973



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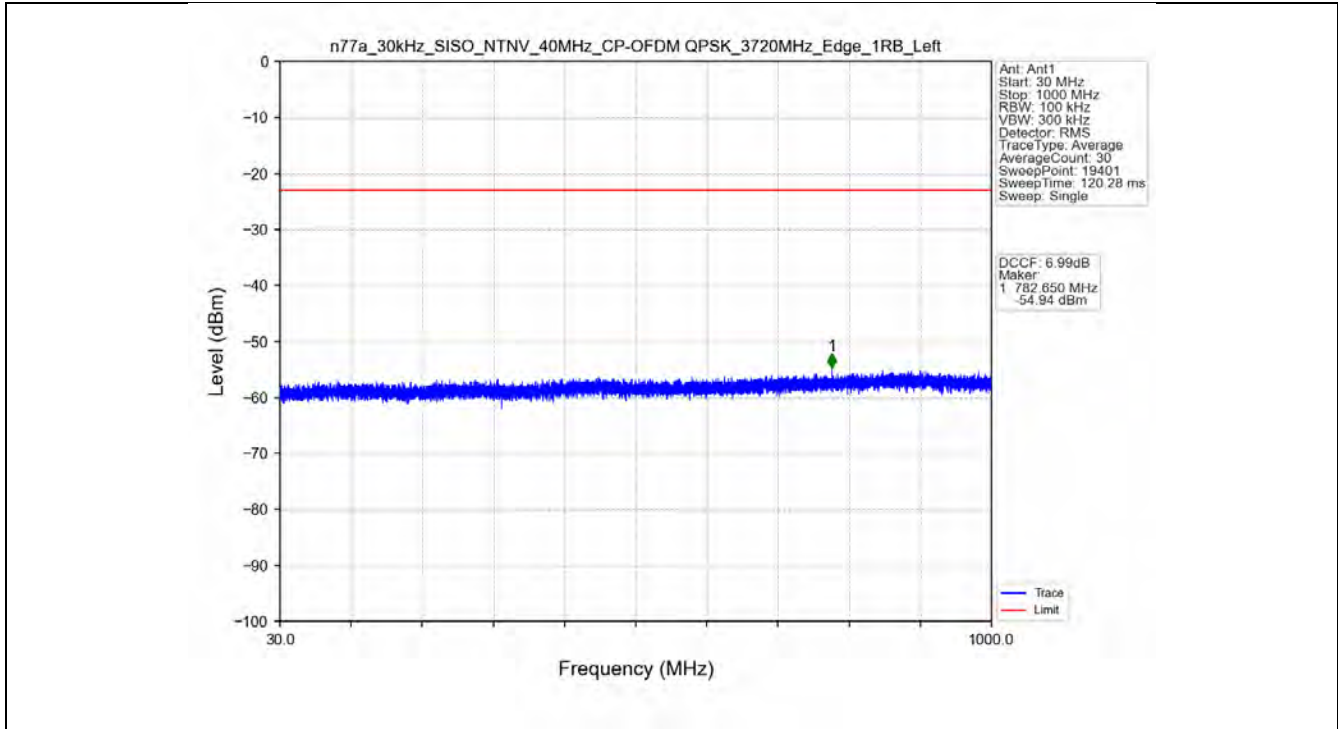


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Report No.: SZCR240100038409

Rev.: 01

Page: 535 of 973



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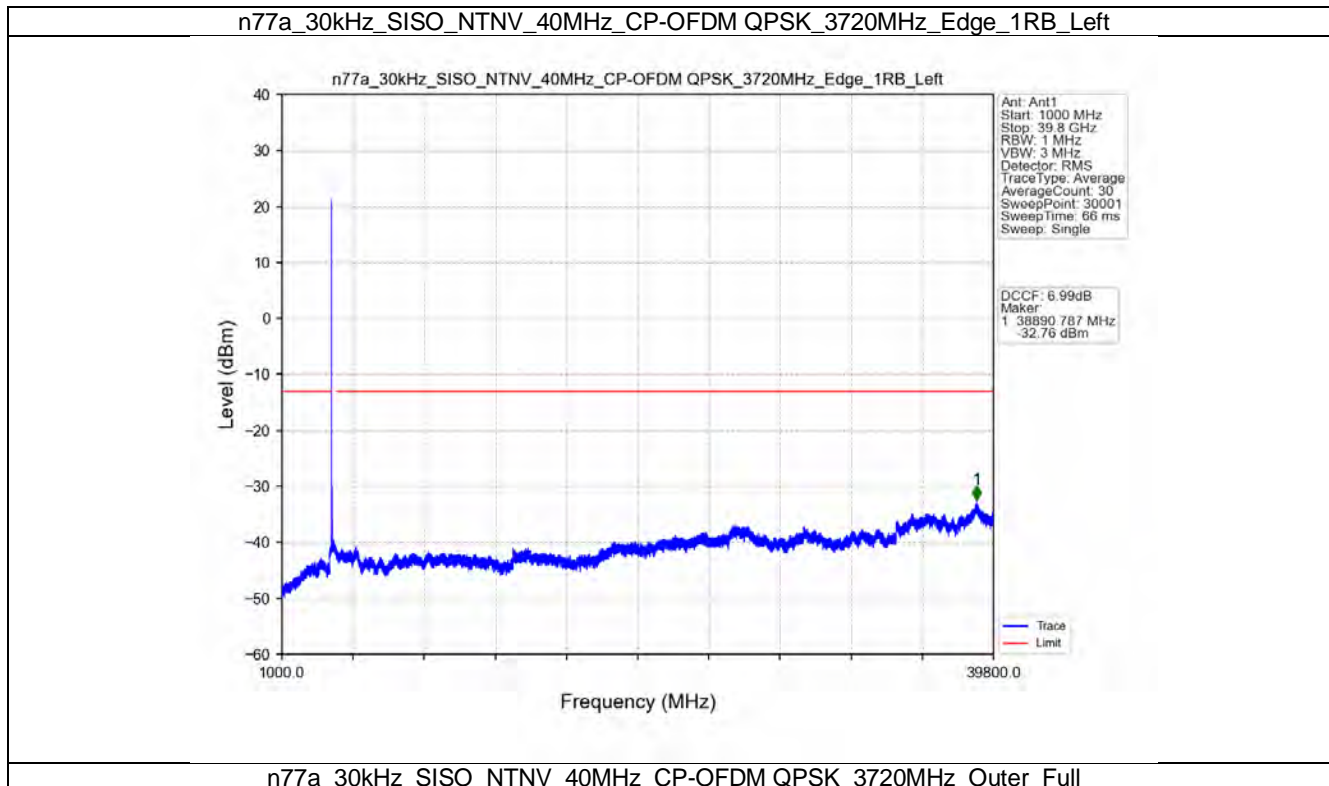
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Report No.: SZCR240100038409  
Rev.: 01  
Page: 536 of 973



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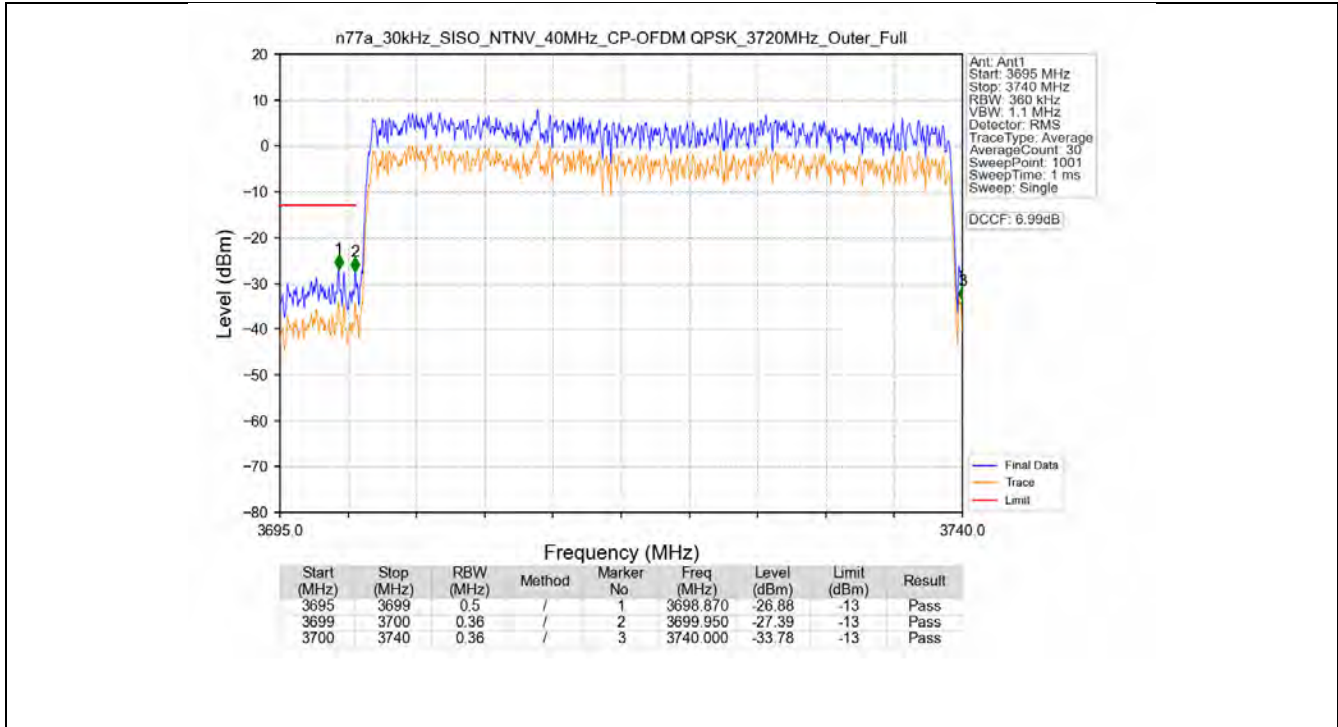


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Report No.: SZCR240100038409

Rev.: 01

Page: 537 of 973



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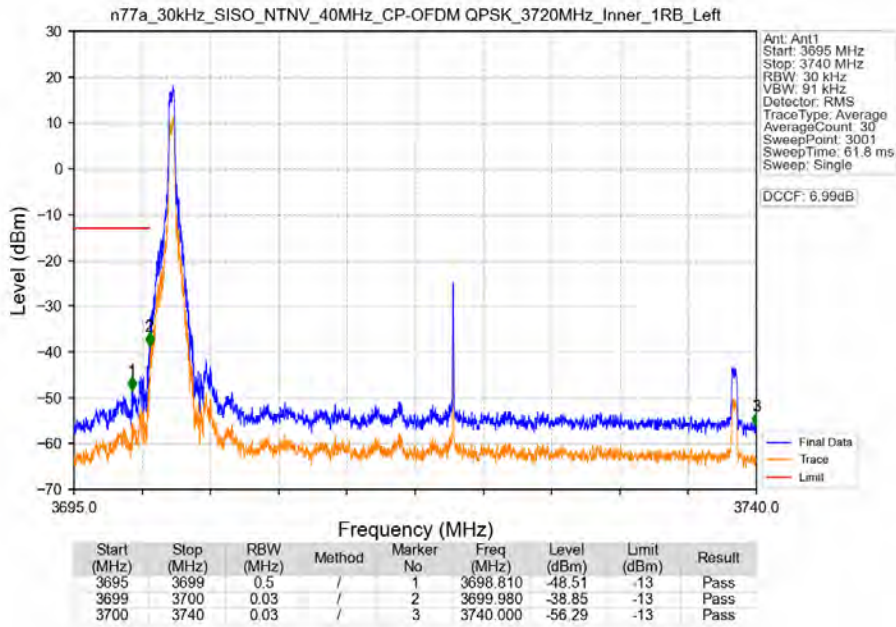
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Report No.: SZCR240100038409

Rev.: 01

Page: 538 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3720MHz\_Inner\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3840MHz\_Edge\_1RB\_Left



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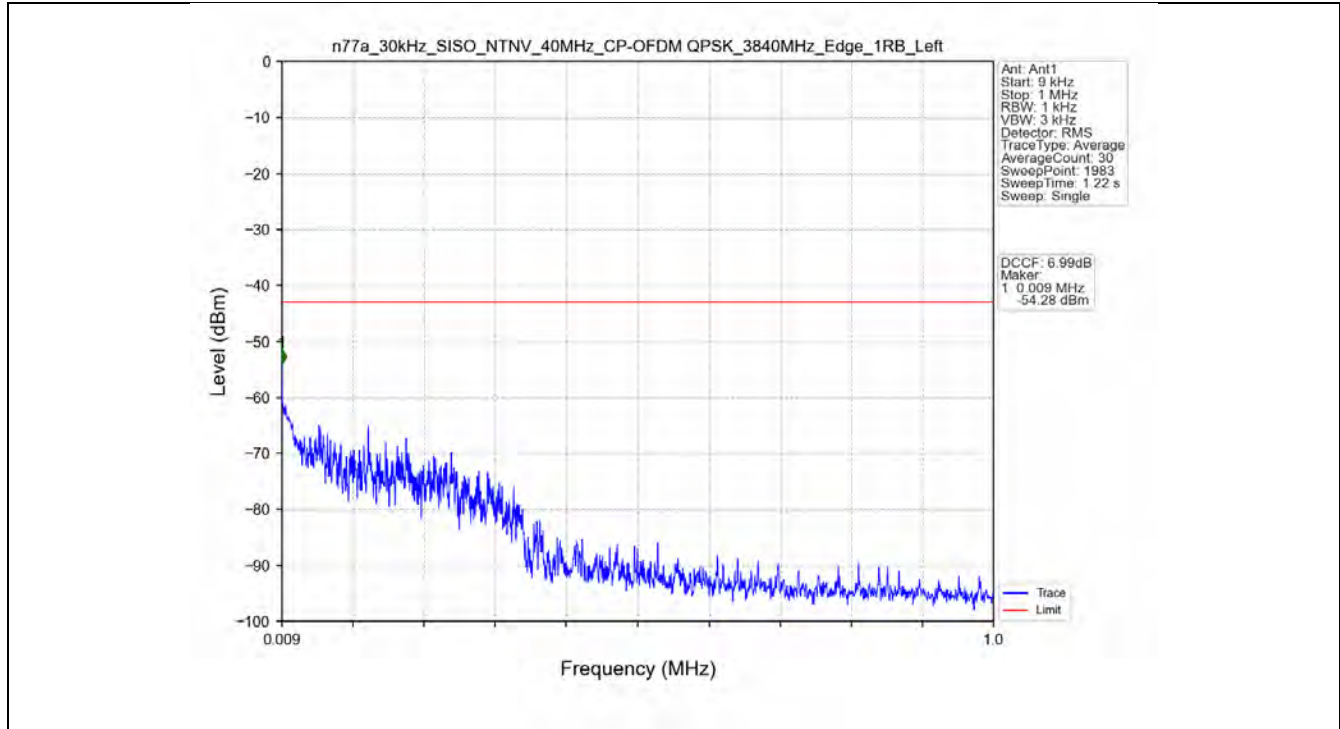


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Report No.: SZCR240100038409

Rev.: 01

Page: 539 of 973



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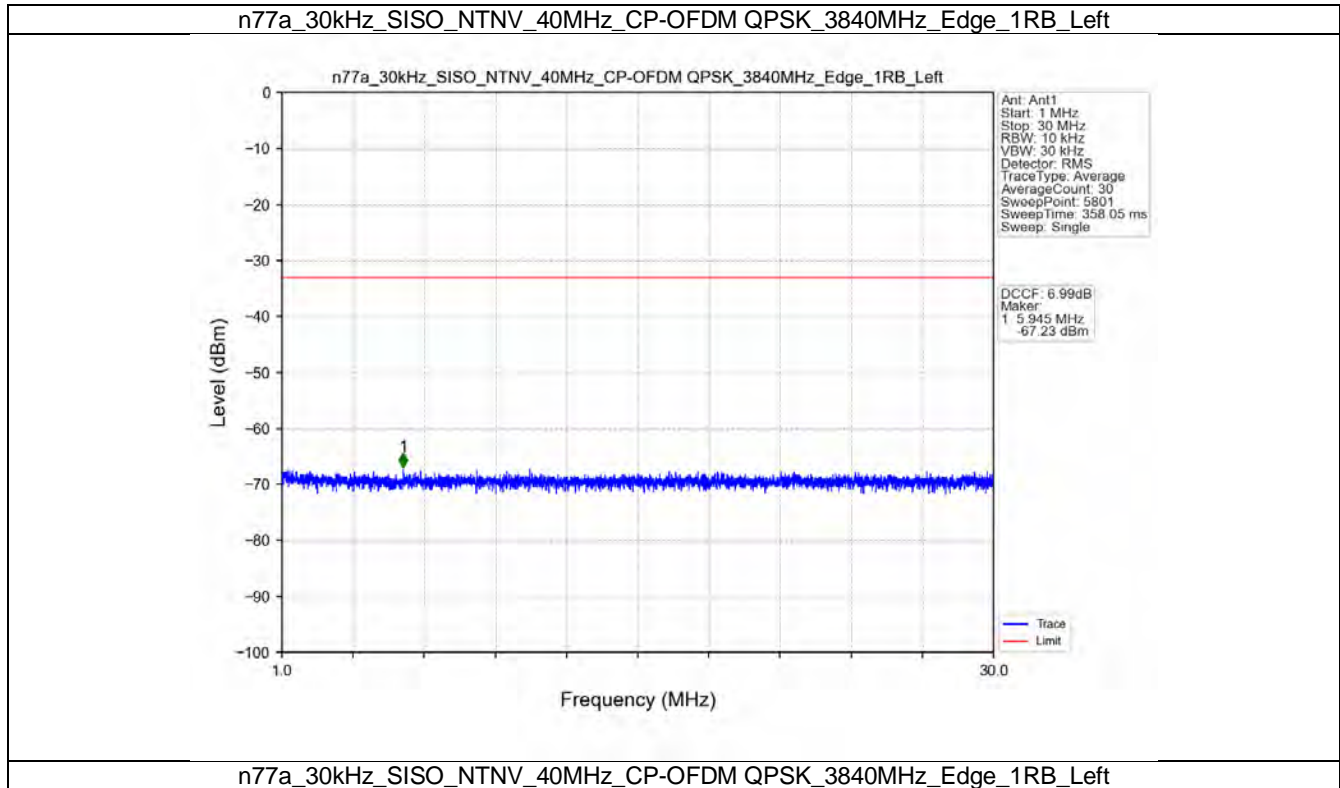


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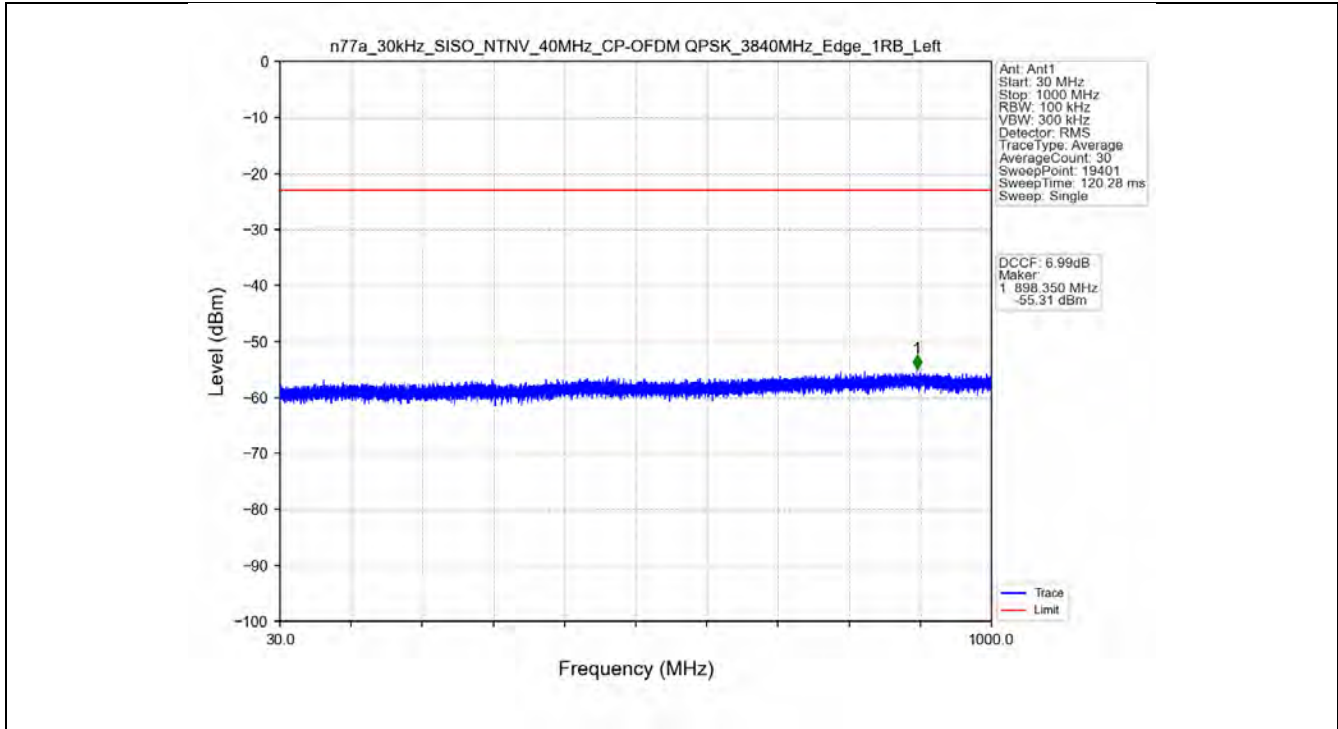


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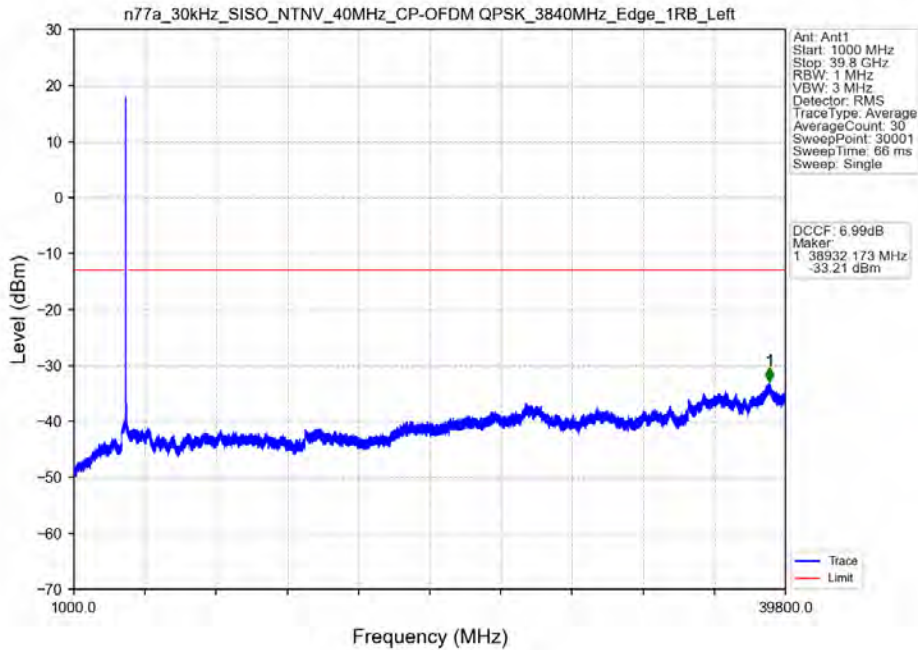
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Report No.: SZCR240100038409

Rev.: 01

Page: 542 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3840MHz\_Edge\_1RB\_Left



n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3960MHz\_Edge\_1RB\_Right



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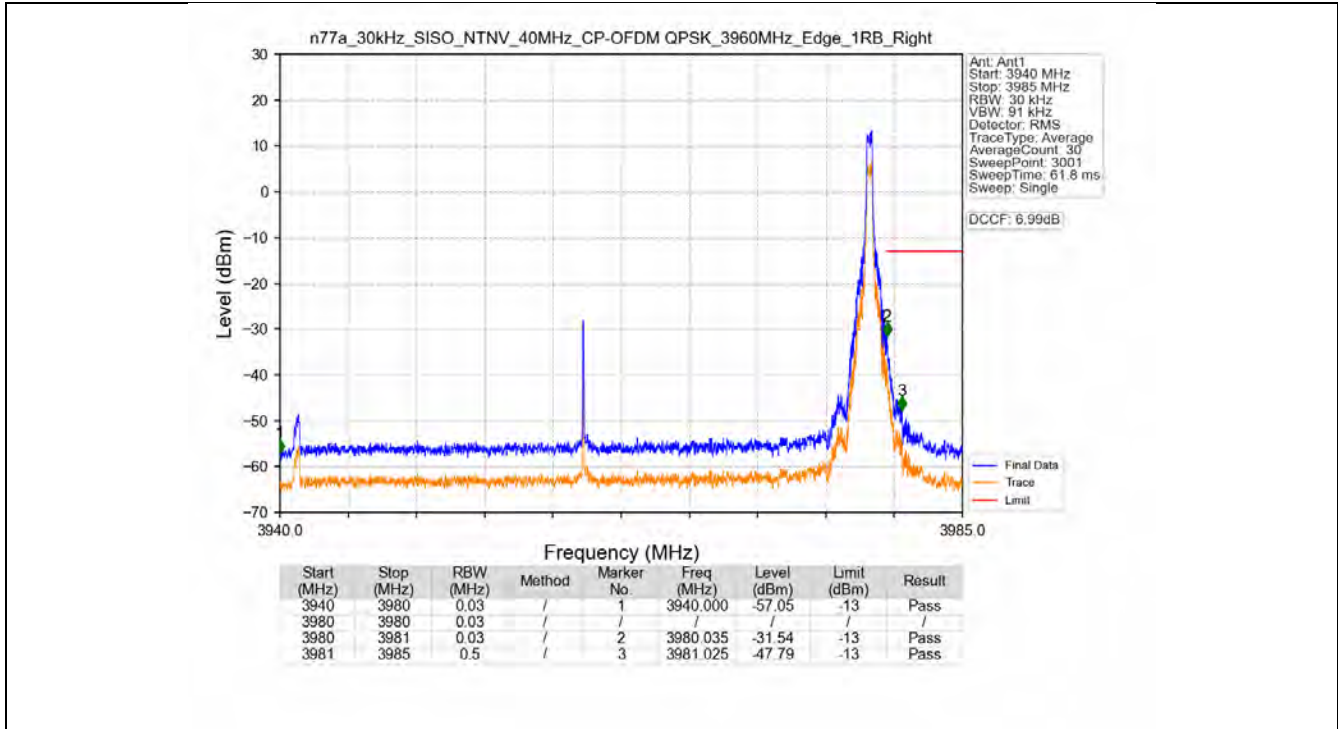


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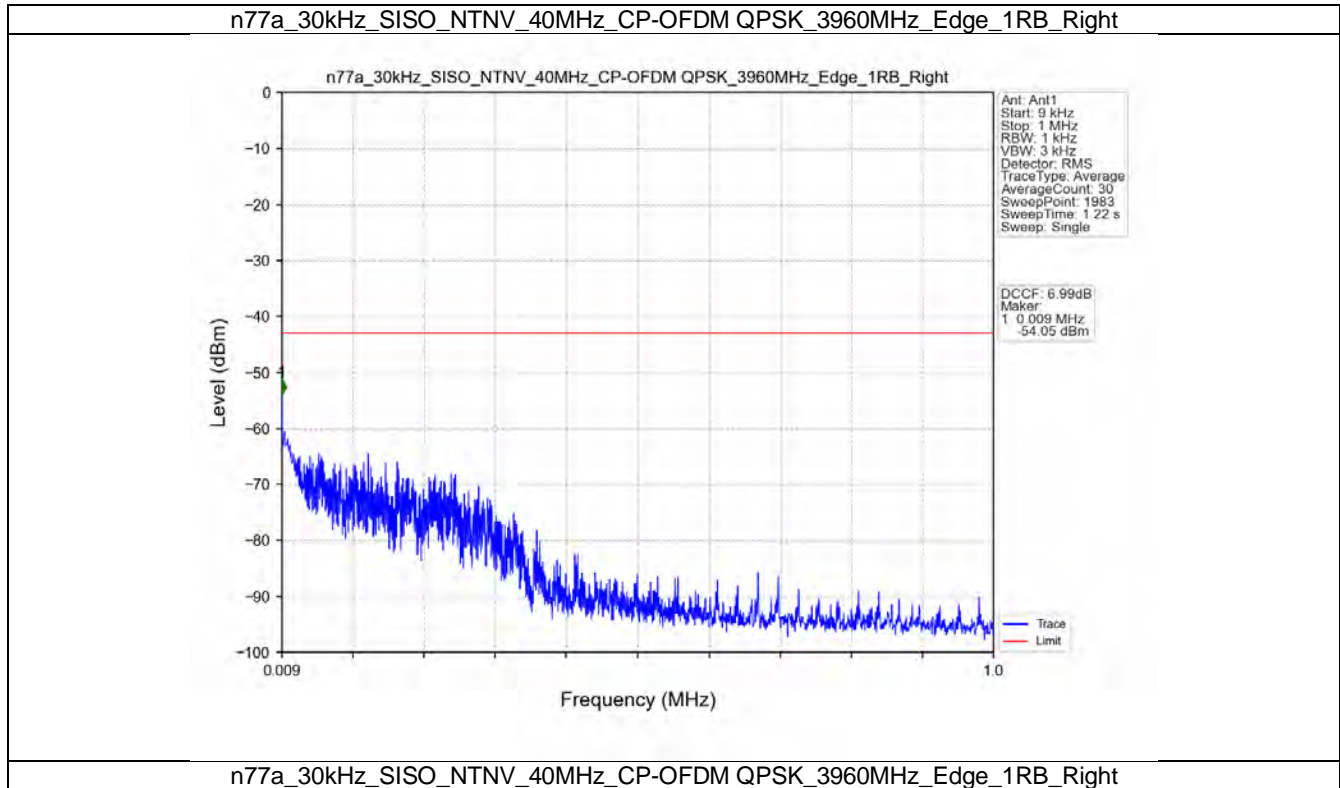


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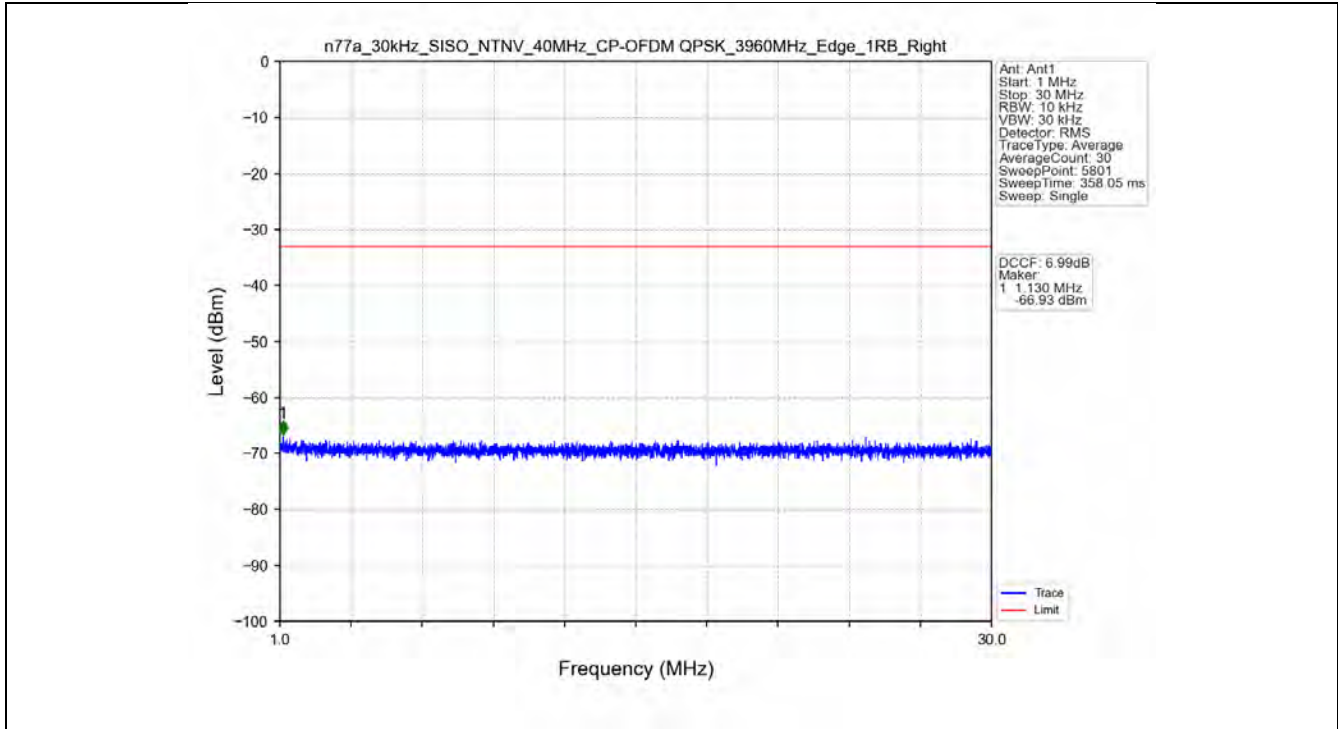


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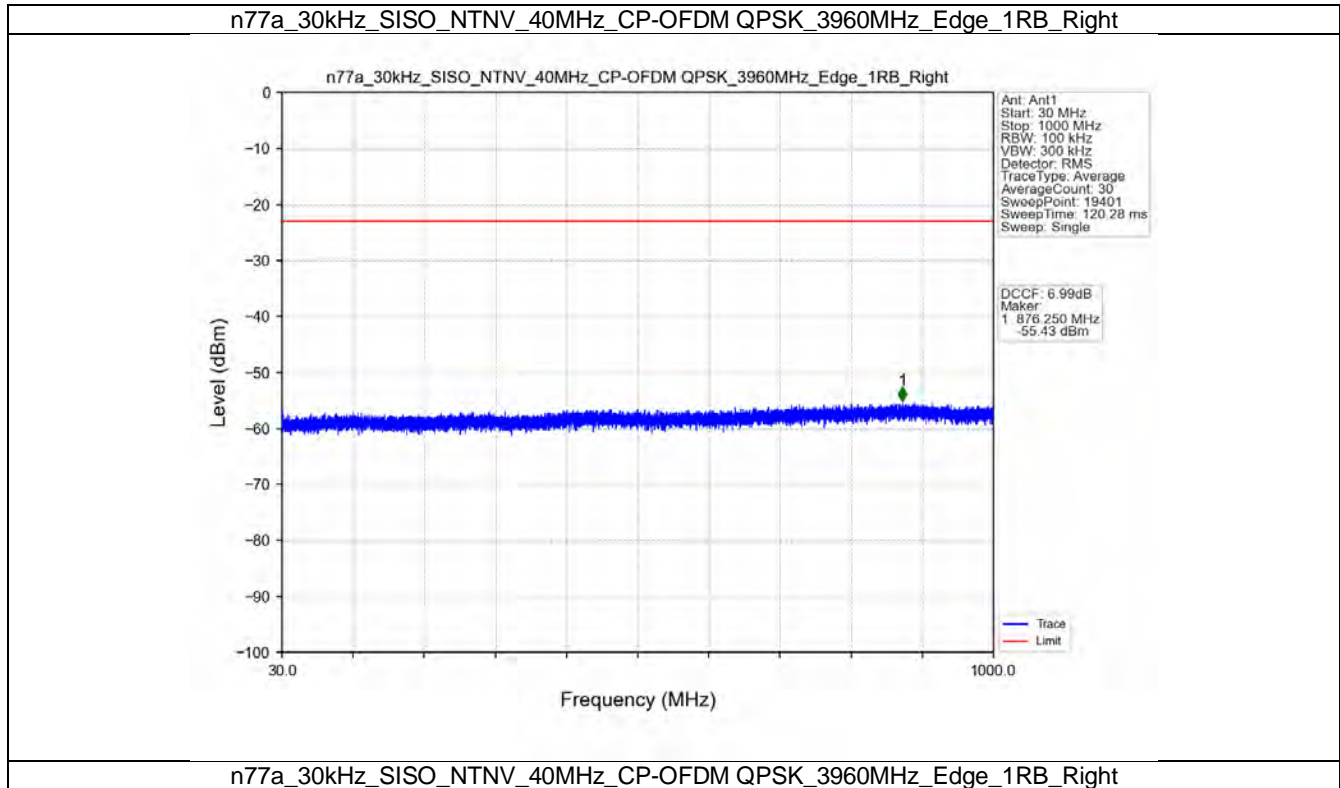


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Report No.: SZCR240100038409

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Page: 546 of 973



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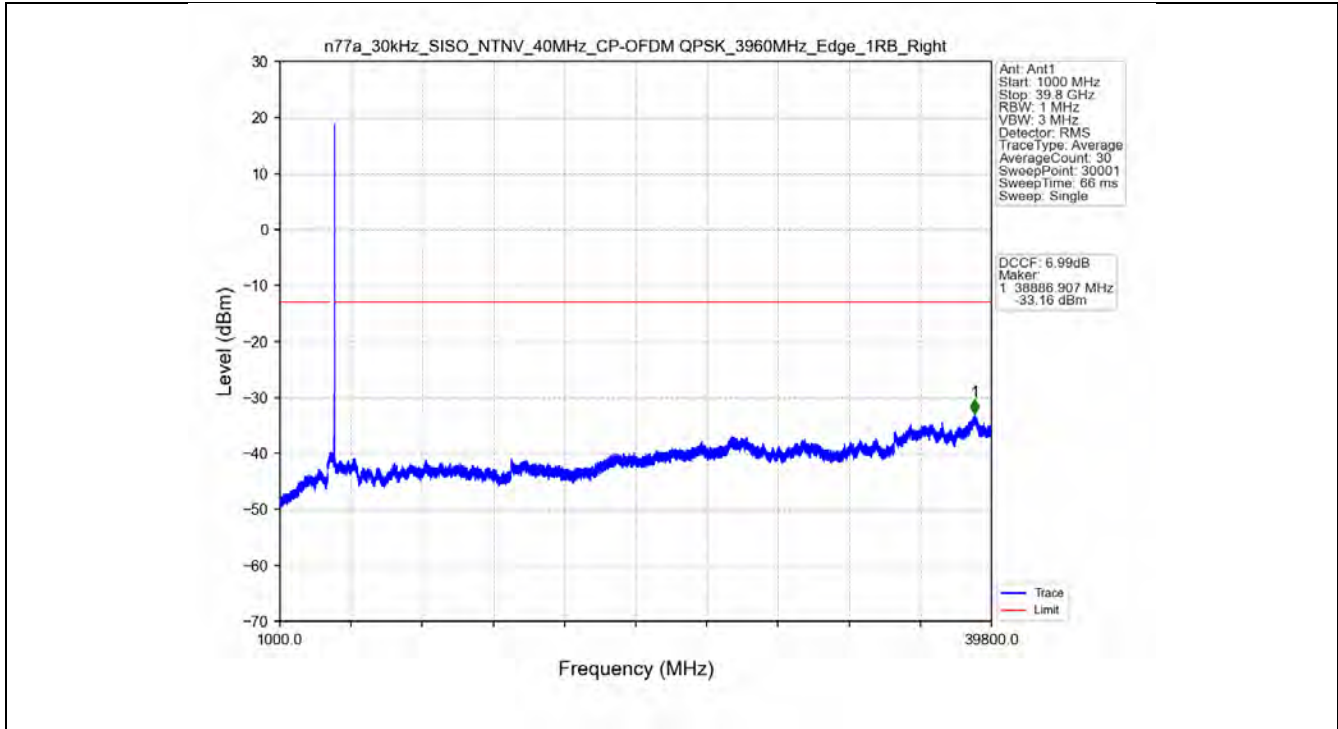


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Report No.: SZCR240100038409

Rev.: 01

Page: 547 of 973



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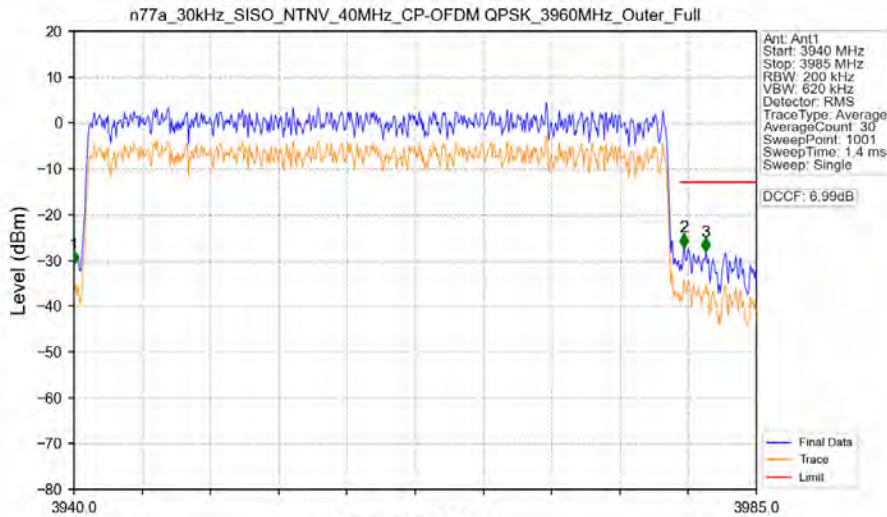
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Report No.: SZCR240100038409

Rev.: 01

Page: 548 of 973

n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3960MHz\_Outer\_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3940	3980	0.2	/	1	3940.000	-30.90	-13	Pass
3980	3980	0.2	/	/	/	/	/	/
3980	3981	0.2	/	2	3980.230	-27.20	-13	Pass
3981	3985	0.5	/	3	3981.670	-28.21	-13	Pass

n77a\_30kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3960MHz\_Inner\_1RB\_Right



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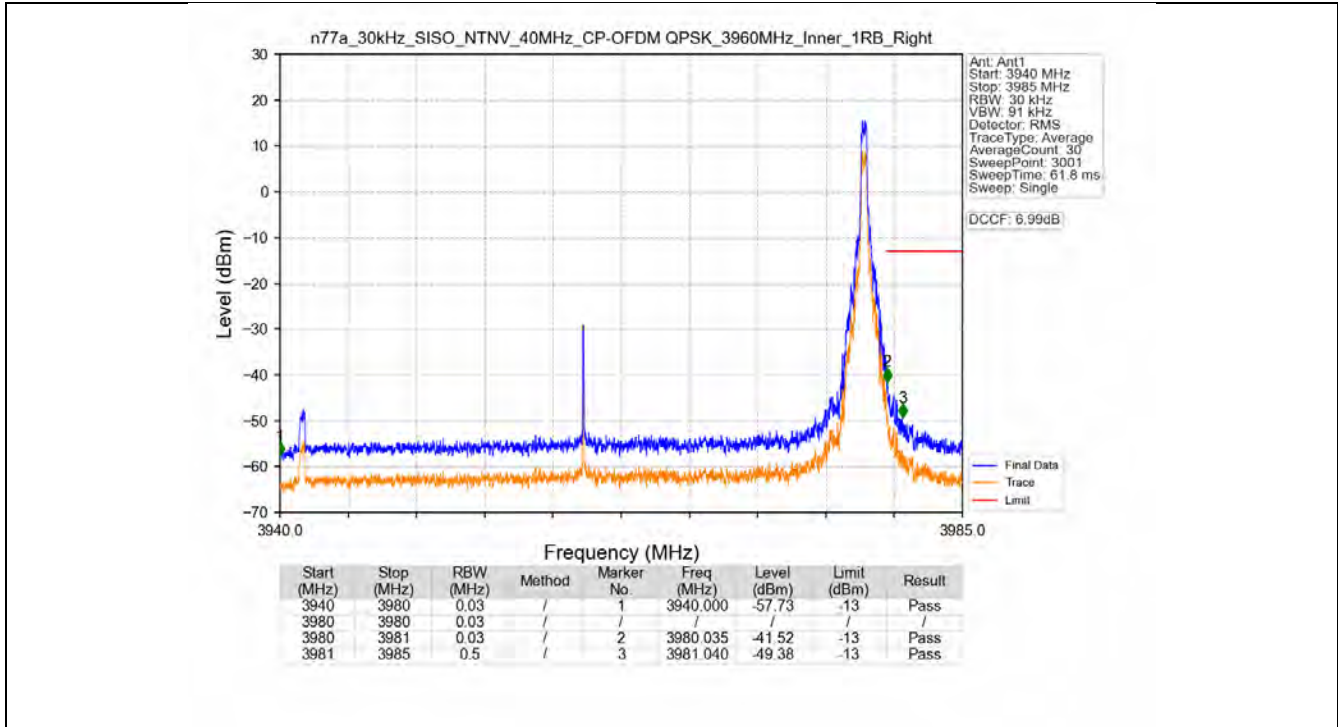


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Rev.: 01

Page: 549 of 973



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Report No.: SZCR240100038409

Rev.: 01

Page: 550 of 973

## 5.4 30k\_SISO\_60MHz\_NTNV

### 5.4.1 Test Result

5G NR n77a SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission			Verdict
			Ant1	Ant4	Sum	
DFT-s-OFDM PI/2 BPSK	3730.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3949.98	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
DFT-s-OFDM QPSK	3730.02	Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Left	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3949.98	Inner_1RB_Right	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
CP-OFDM QPSK	3730.02	Inner_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Left	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3840	Edge_1RB_Left	Refer To Test Graph			Pass
		Edge_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
	3949.98	Inner_1RB_Right	Refer To Test Graph			Pass
		Outer_Full	Refer To Test Graph			Pass
		Inner_1RB_Right	Refer To Test Graph			Pass



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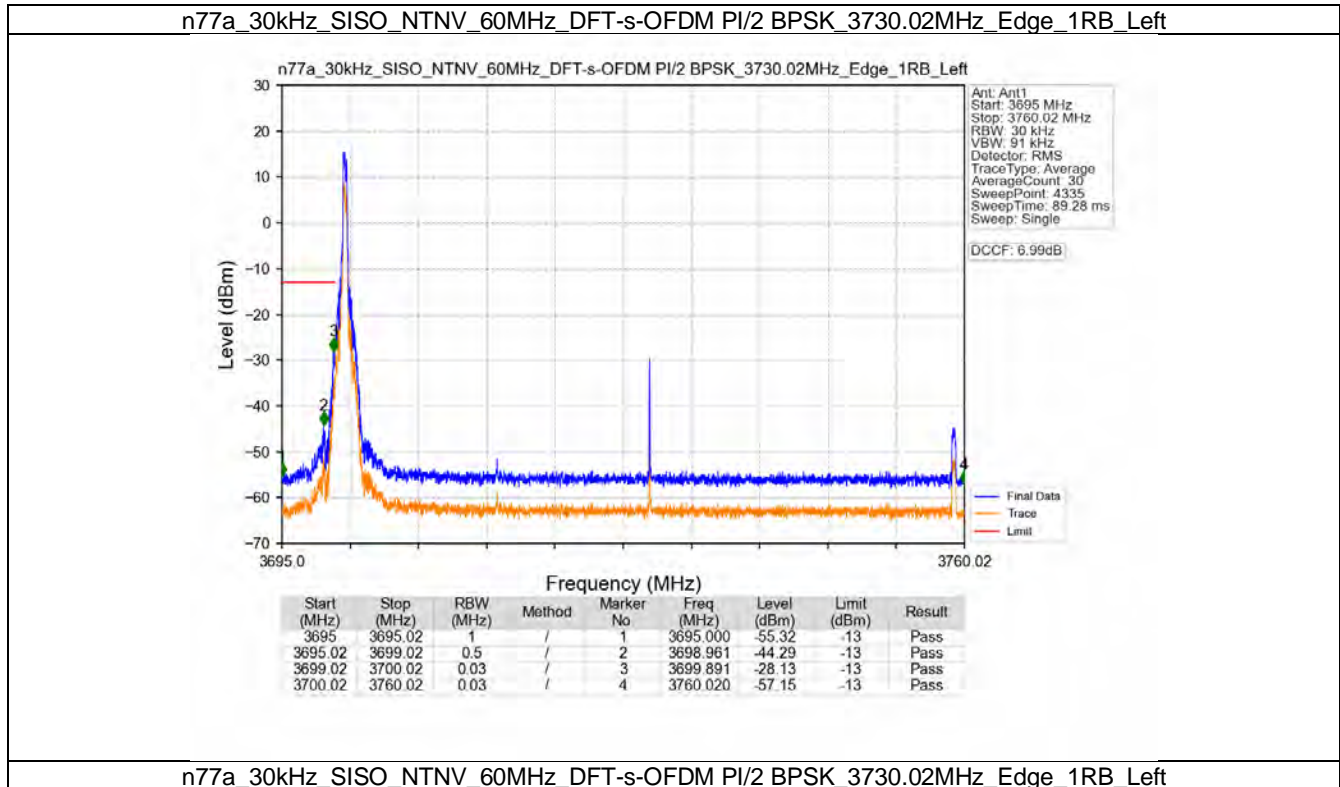




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Report No.: SZCR240100038409  
Rev.: 01  
Page: 551 of 973

5.4.2 Test Graph



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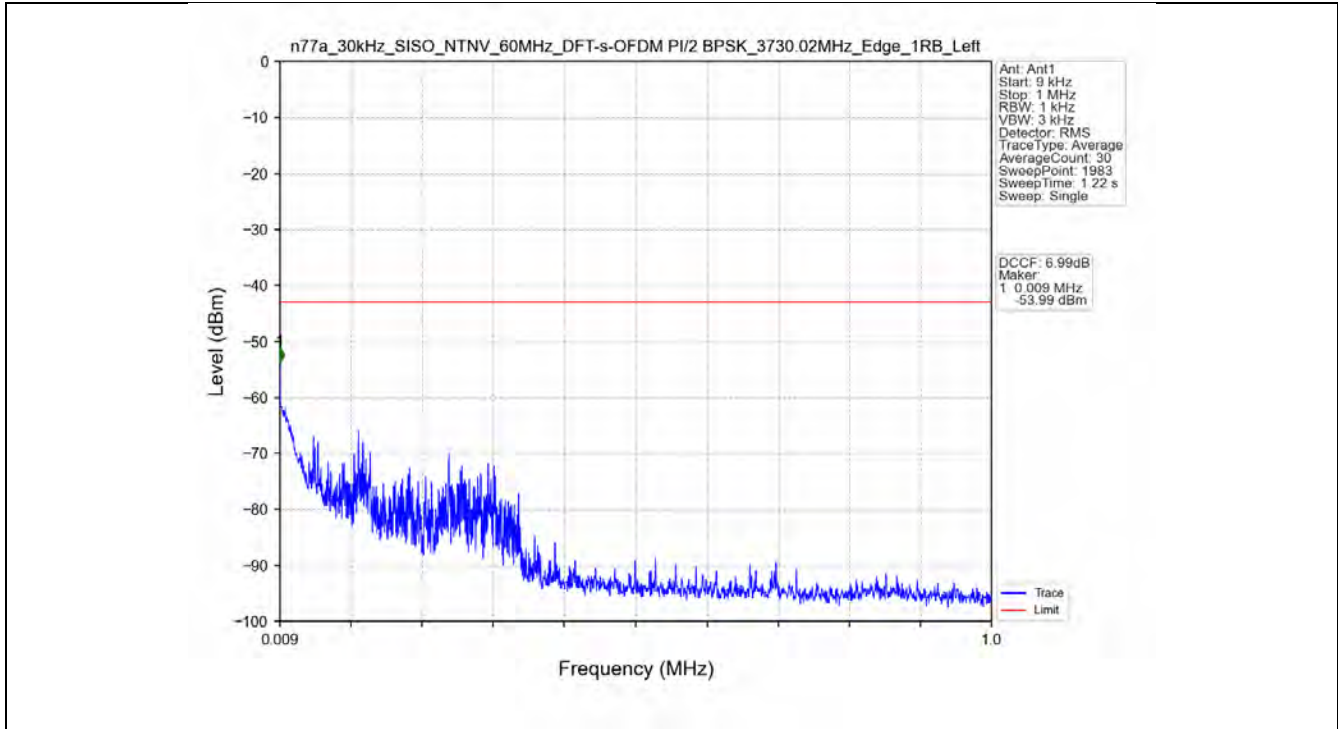


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Rev.: 01

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