



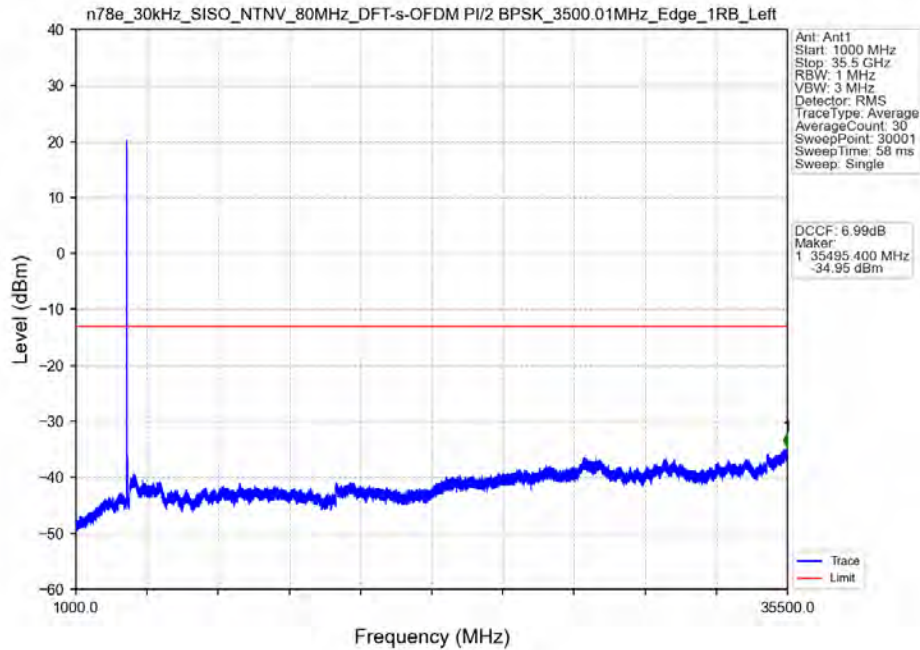
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 917 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3510MHz_Edge_1RB_Right



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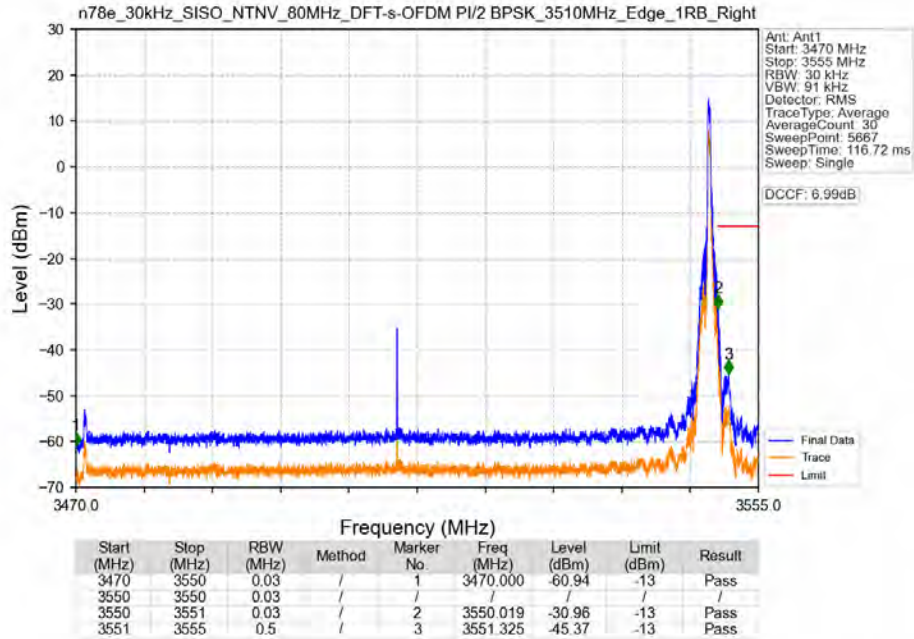


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Report No.: SZCR240100038409

Rev.: 01

Page: 918 of 1458



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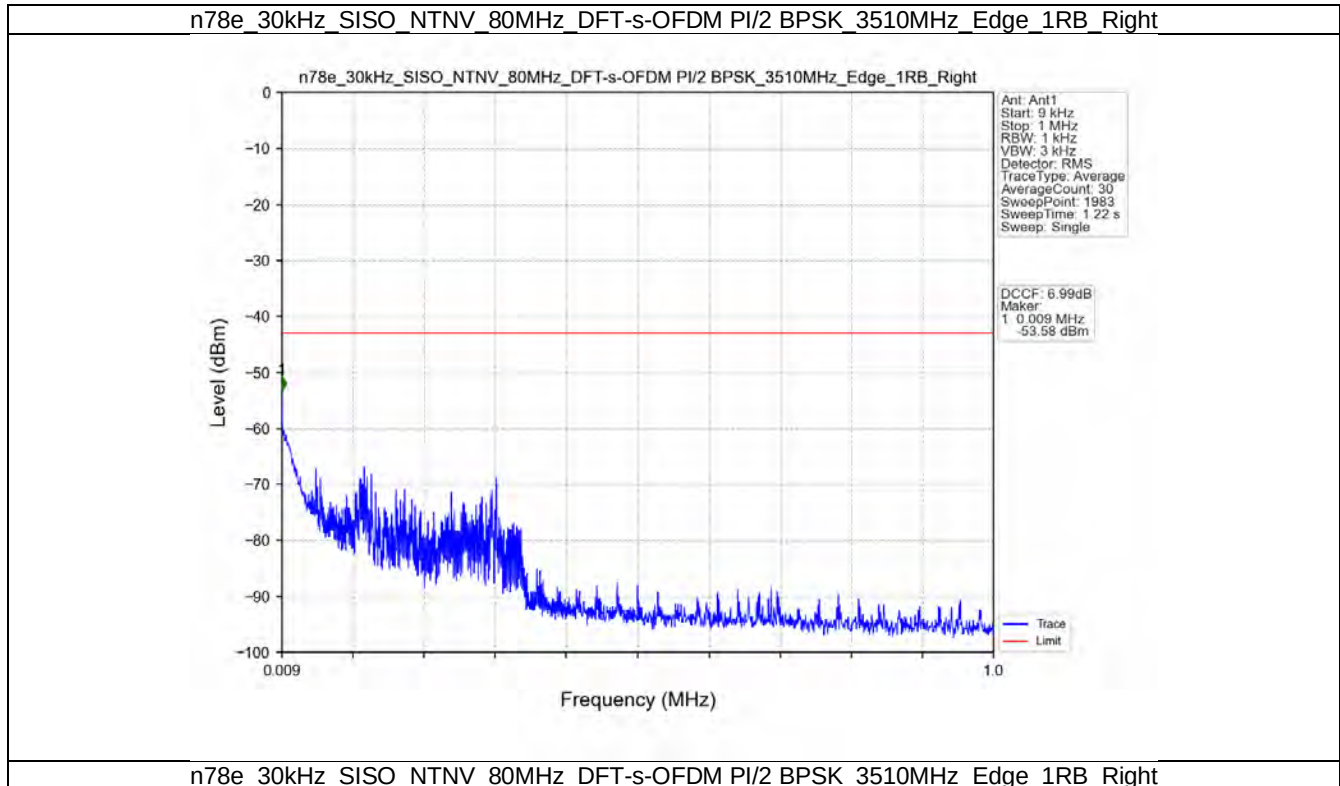


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Report No.: SZCR240100038409

Rev.: 01

Page: 919 of 1458



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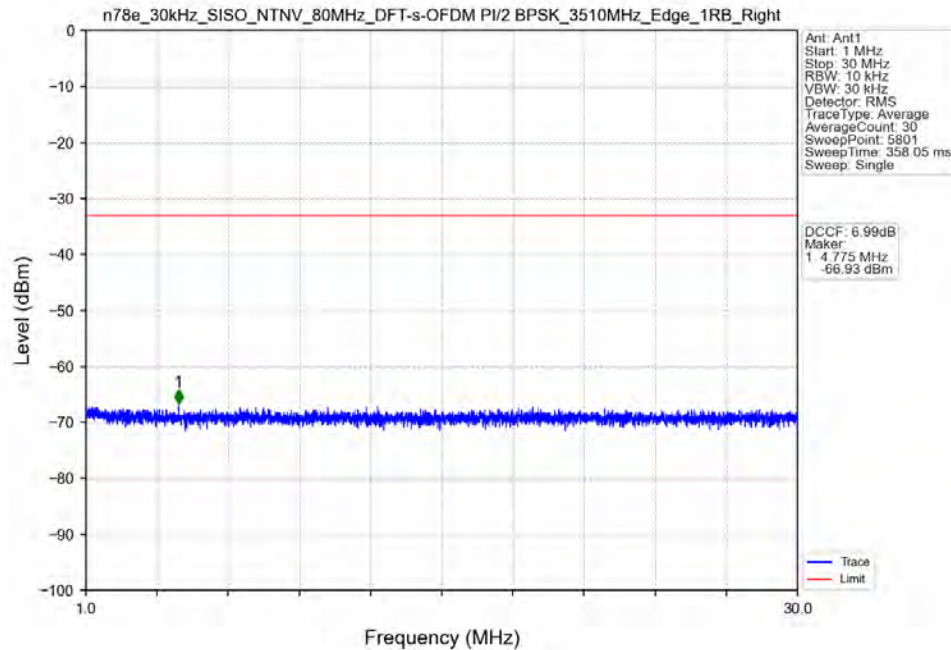


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 920 of 1458



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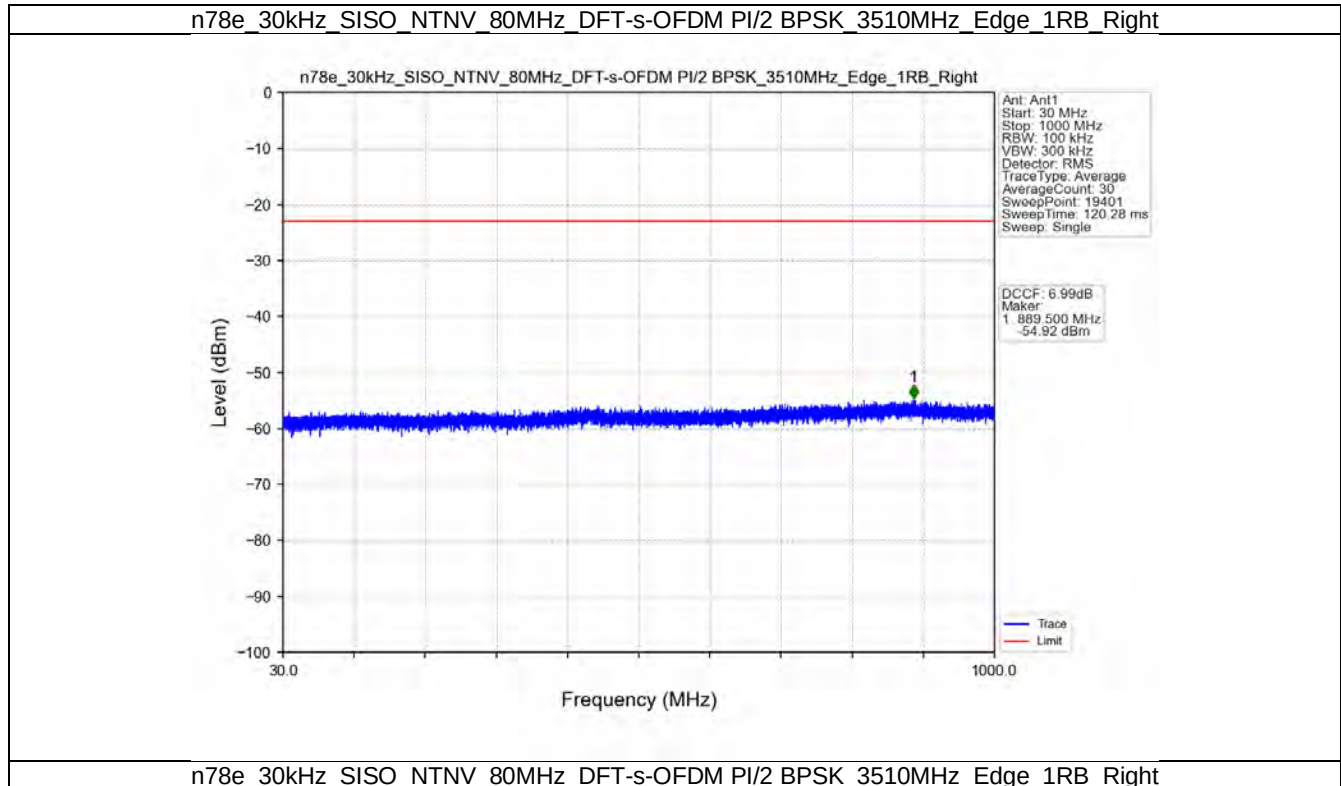


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Report No.: SZCR240100038409

Rev.: 01

Page: 921 of 1458



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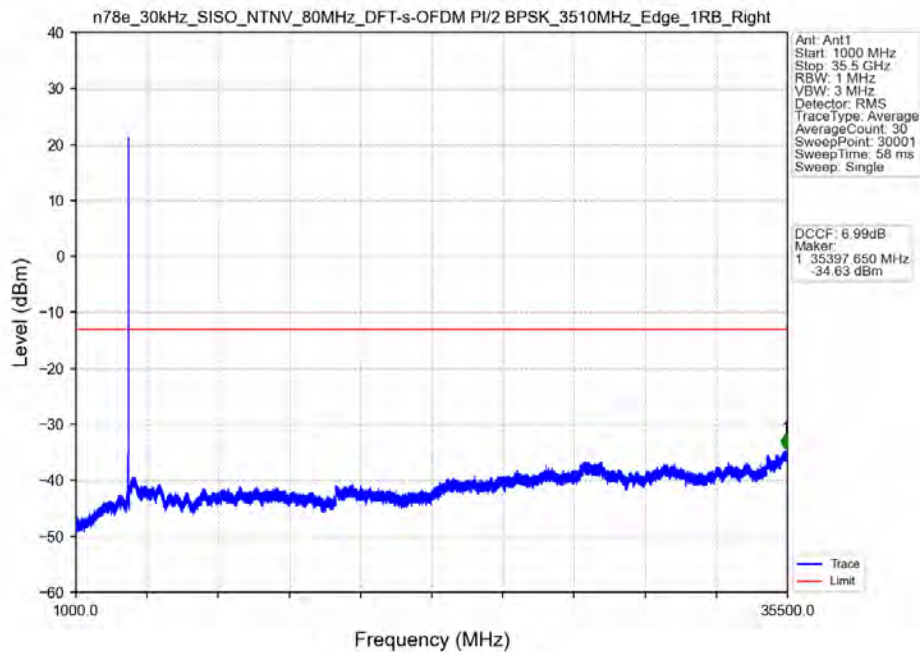


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Report No.: SZCR240100038409

Rev.: 01

Page: 922 of 1458



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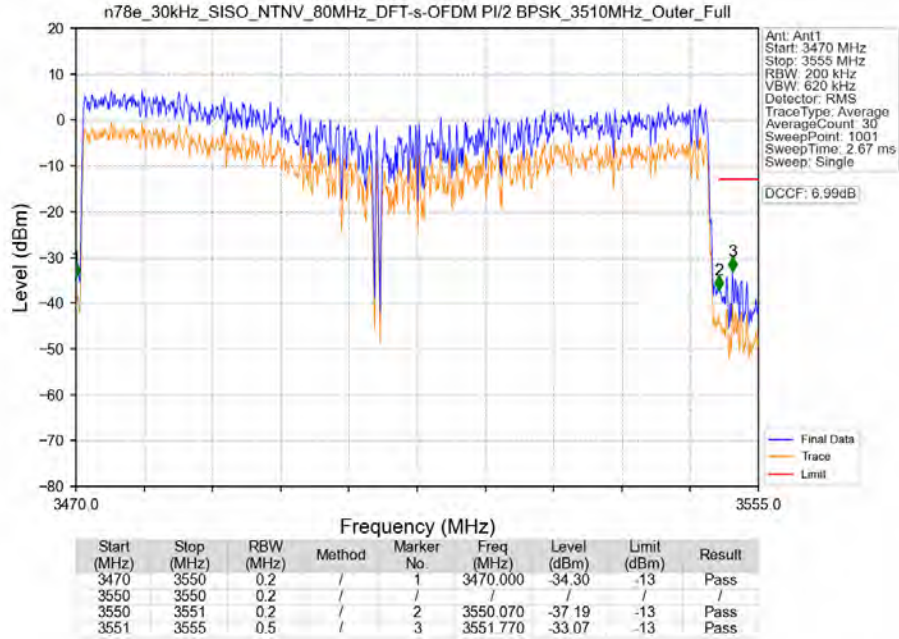
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 923 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3510MHz_Inner_1RB_Right



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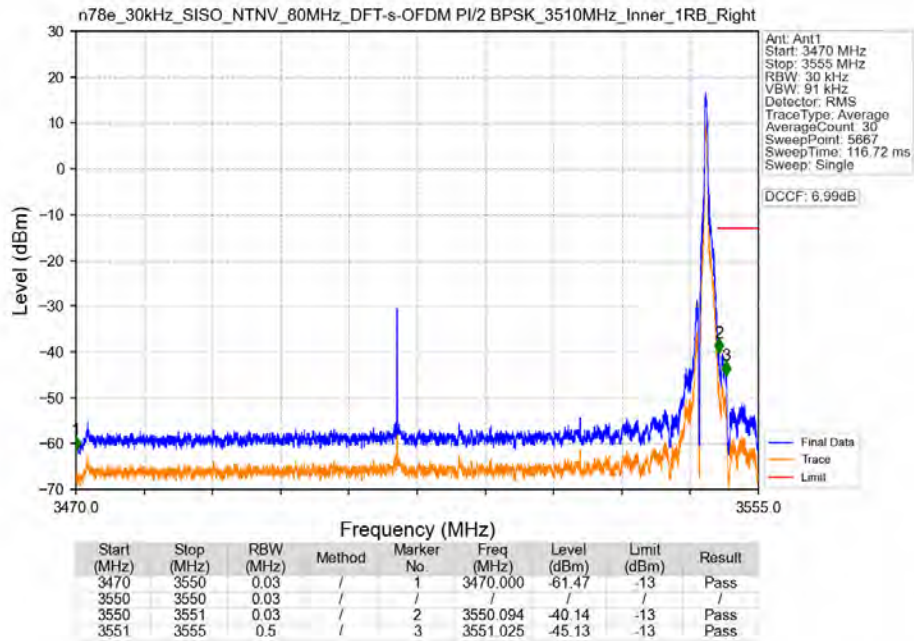


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Report No.: SZCR240100038409

Rev.: 01

Page: 924 of 1458



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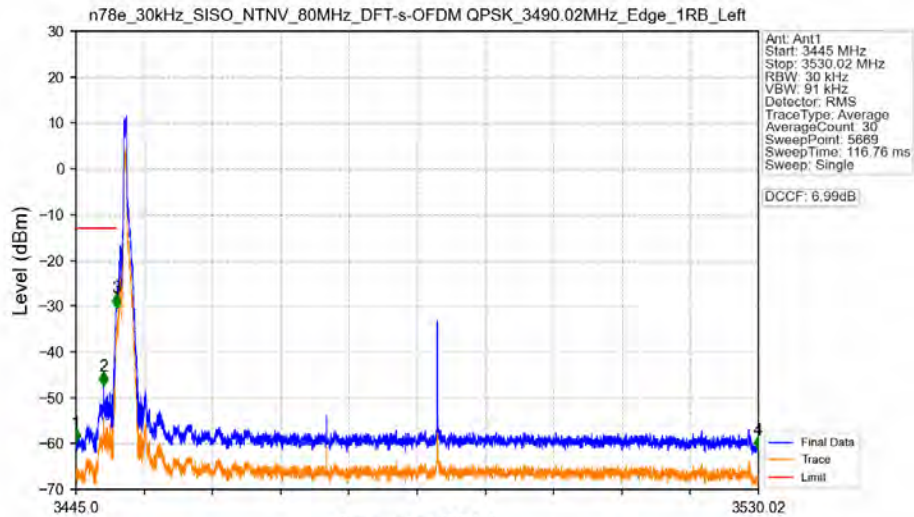
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 925 of 1458

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3445	3445.02	1	/	1	3445.000	-59.78	-13	Pass
3445.02	3449.02	0.5	/	2	3448.450	-47.49	-13	Pass
3449.02	3450.02	0.03	/	3	3449.995	-30.41	-13	Pass
3450.02	3530.02	0.03	/	4	3530.020	-61.34	-13	Pass

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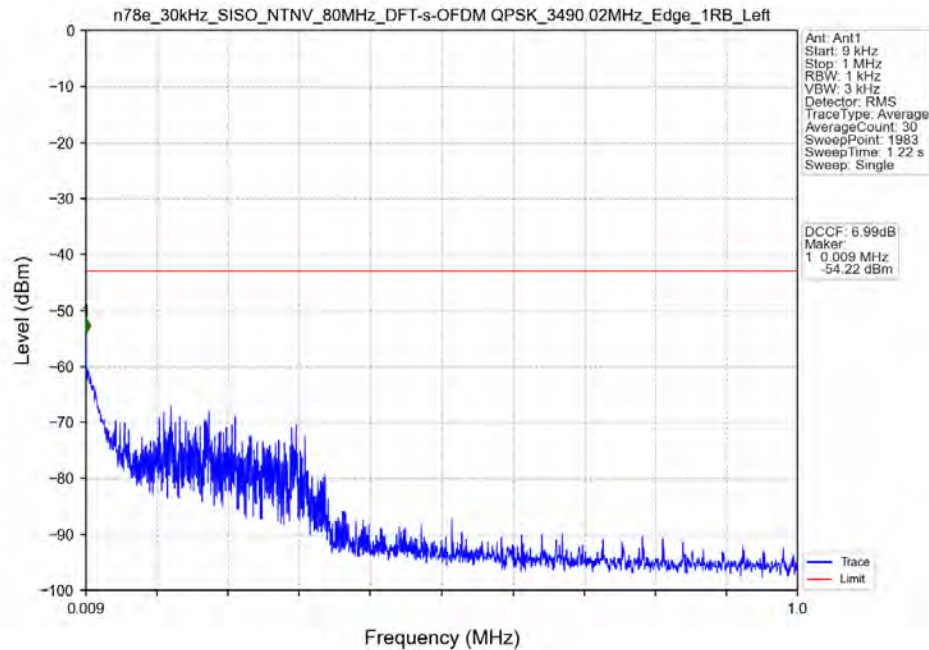


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Report No.: SZCR240100038409

Rev.: 01

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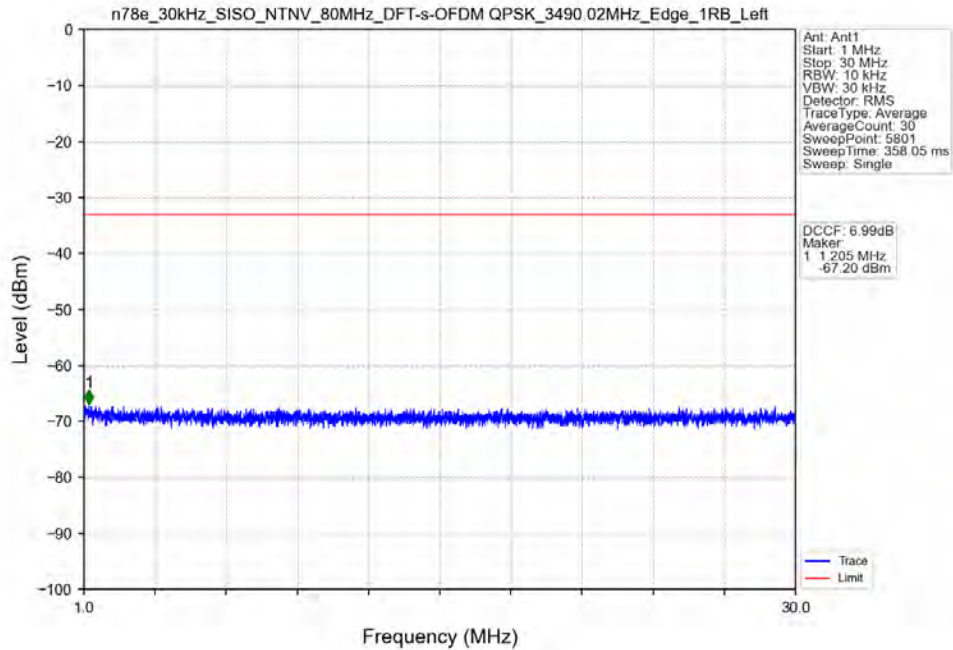
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Report No.: SZCR240100038409

Rev.: 01

Page: 927 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_QPSK_3490.02MHz_Edge_1RB_Left



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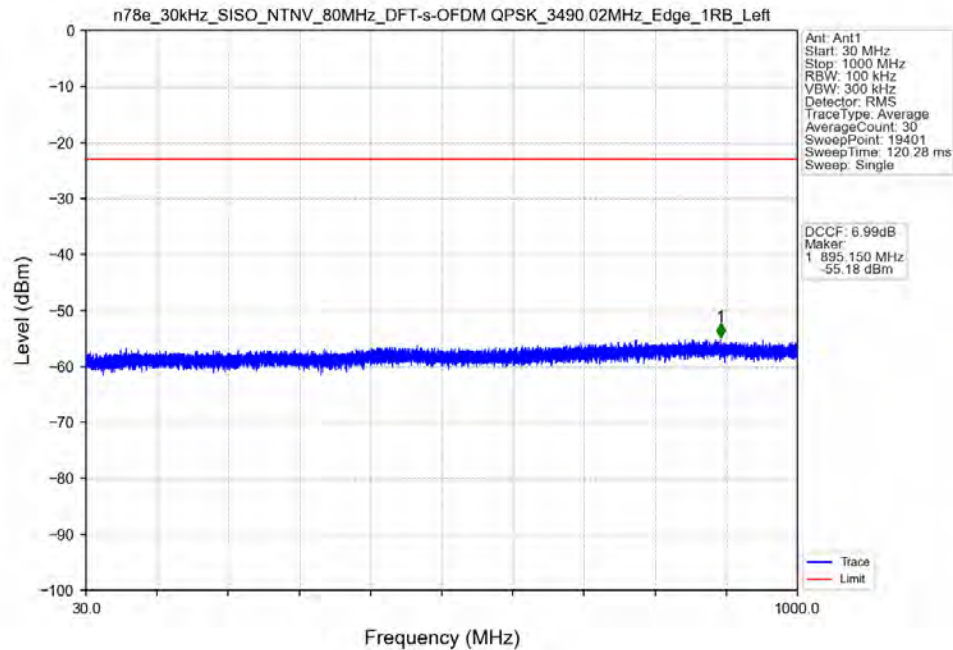


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Report No.: SZCR240100038409

Rev.: 01

Page: 928 of 1458



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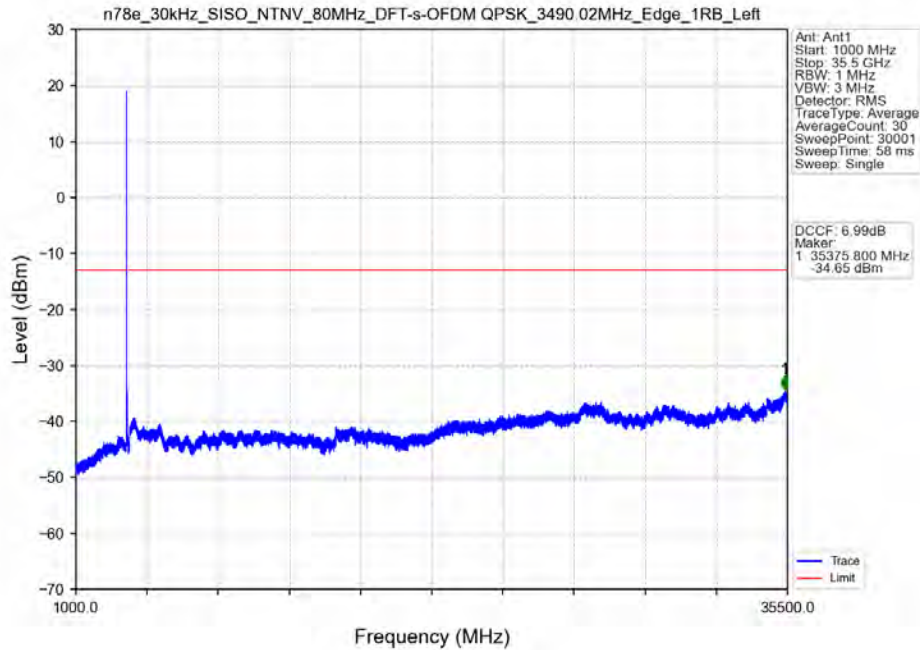
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Report No.: SZCR240100038409

Rev.: 01

Page: 929 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_QPSK_3490.02MHz_Outer_Full



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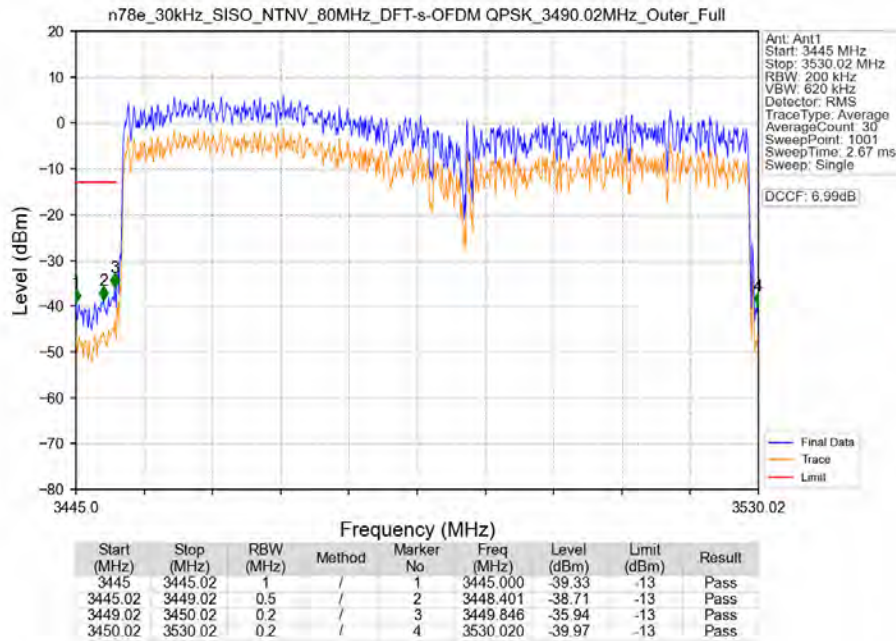


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Report No.: SZCR240100038409

Rev.: 01

Page: 930 of 1458



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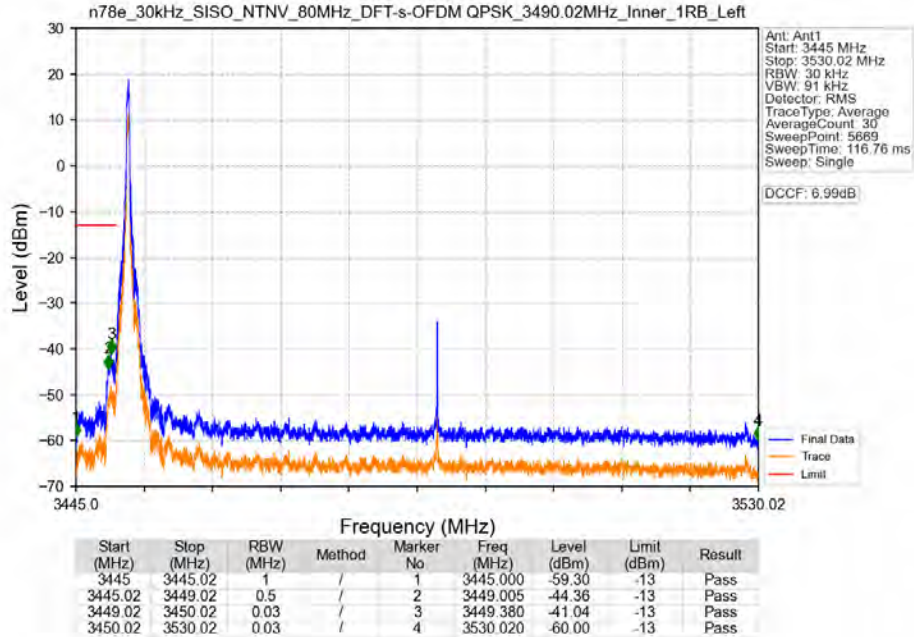
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Report No.: SZCR240100038409

Rev.: 01

Page: 931 of 1458

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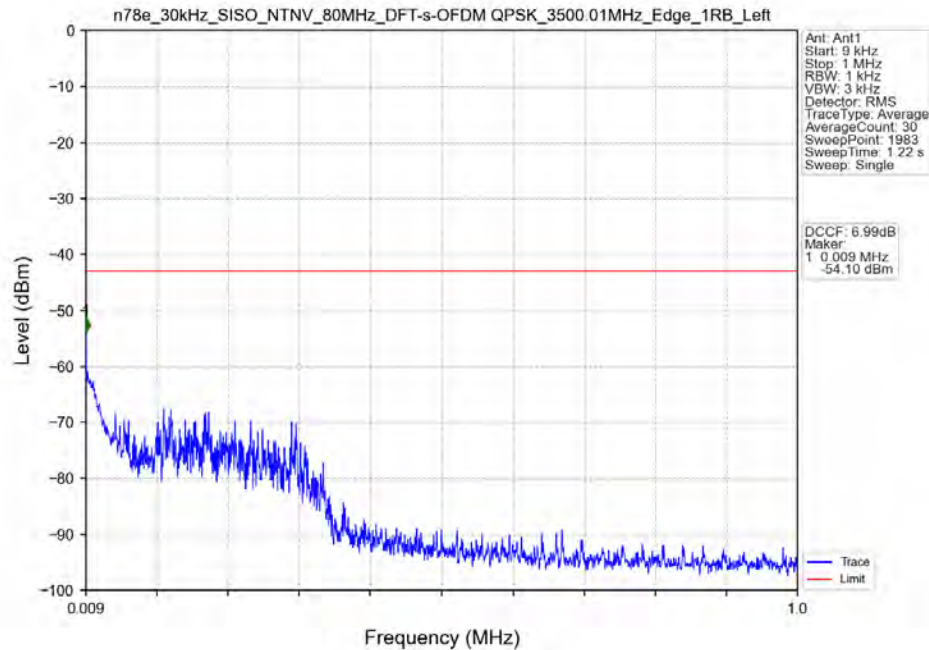


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 932 of 1458



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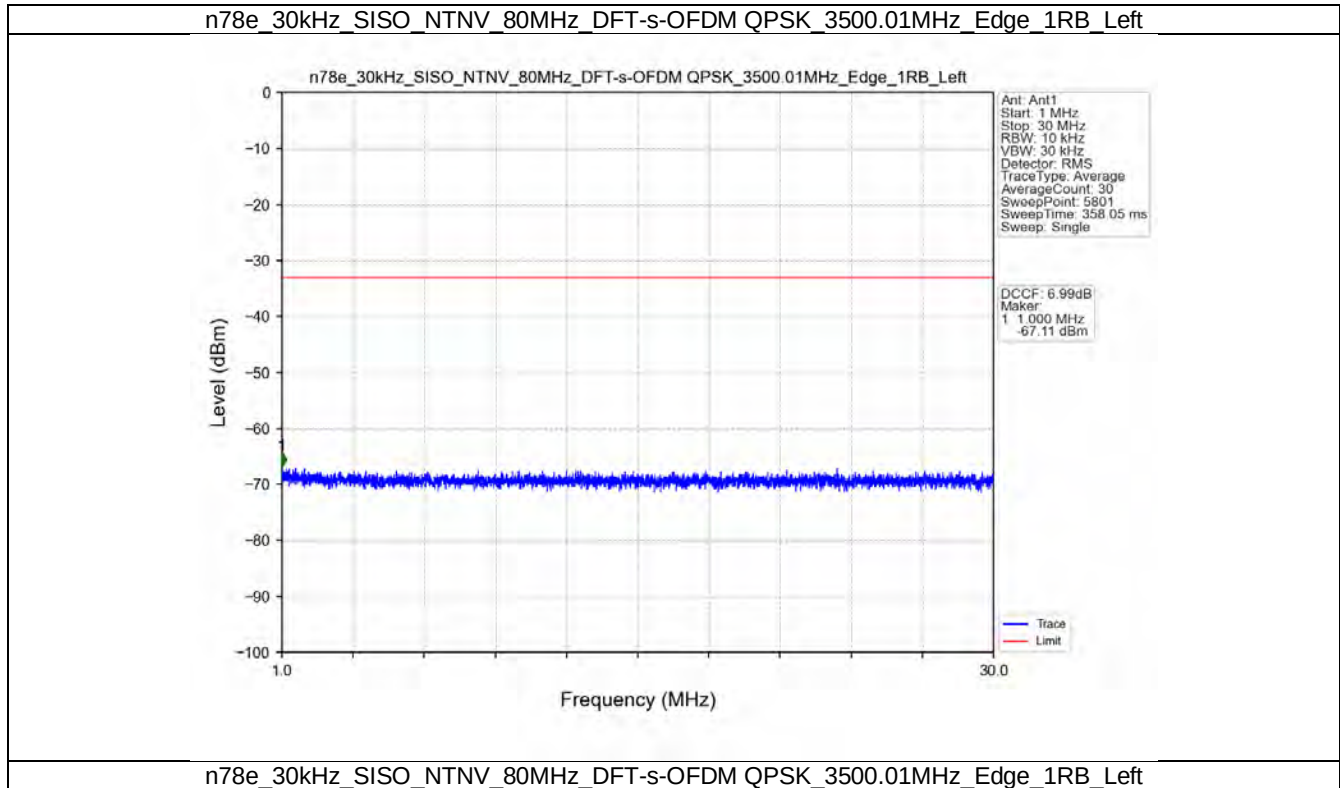


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 933 of 1458



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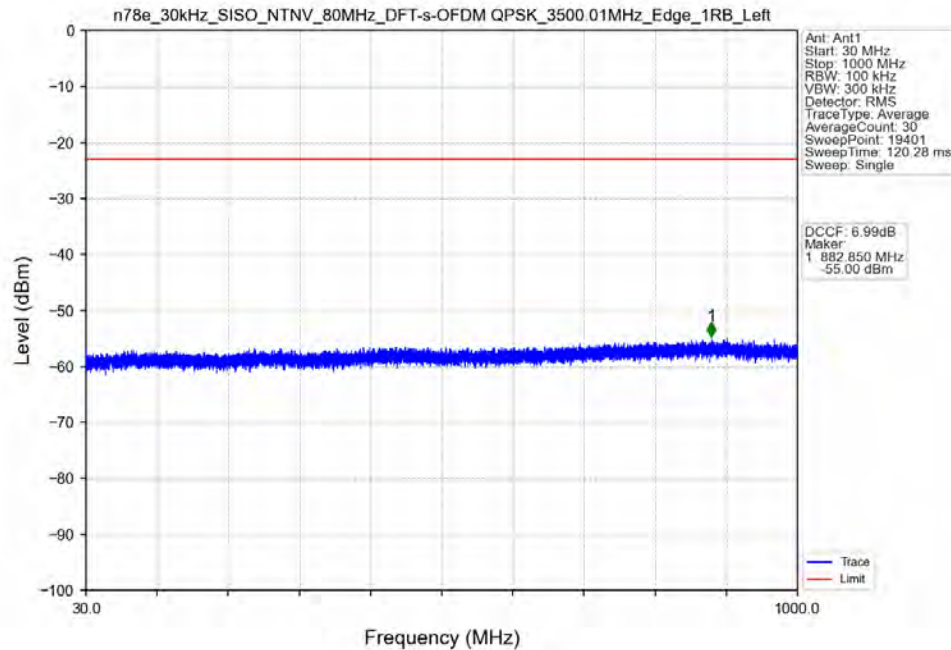


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 934 of 1458



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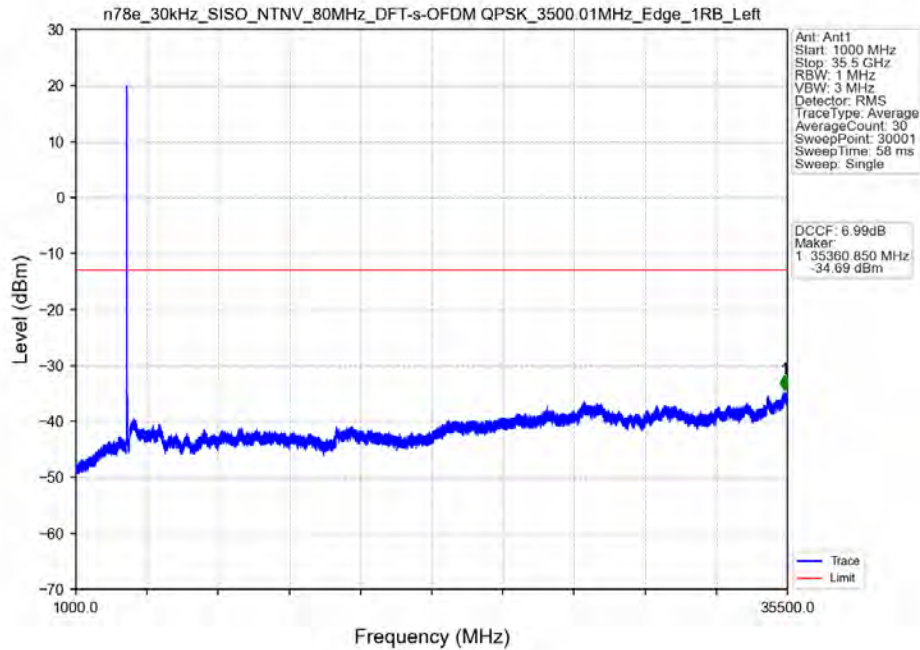
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 935 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3510MHz_Edge_1RB_Right



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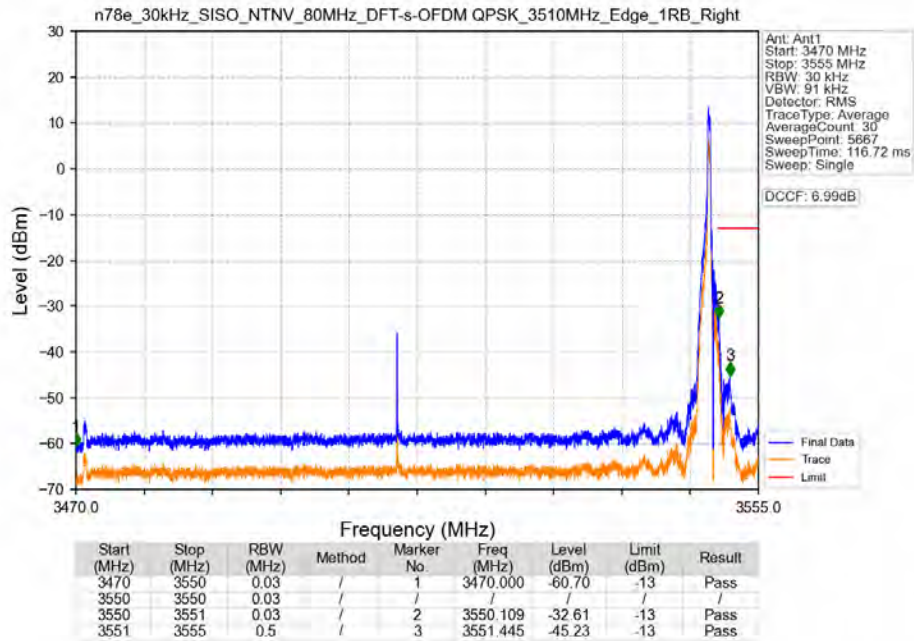


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Report No.: SZCR240100038409

Rev.: 01

Page: 936 of 1458



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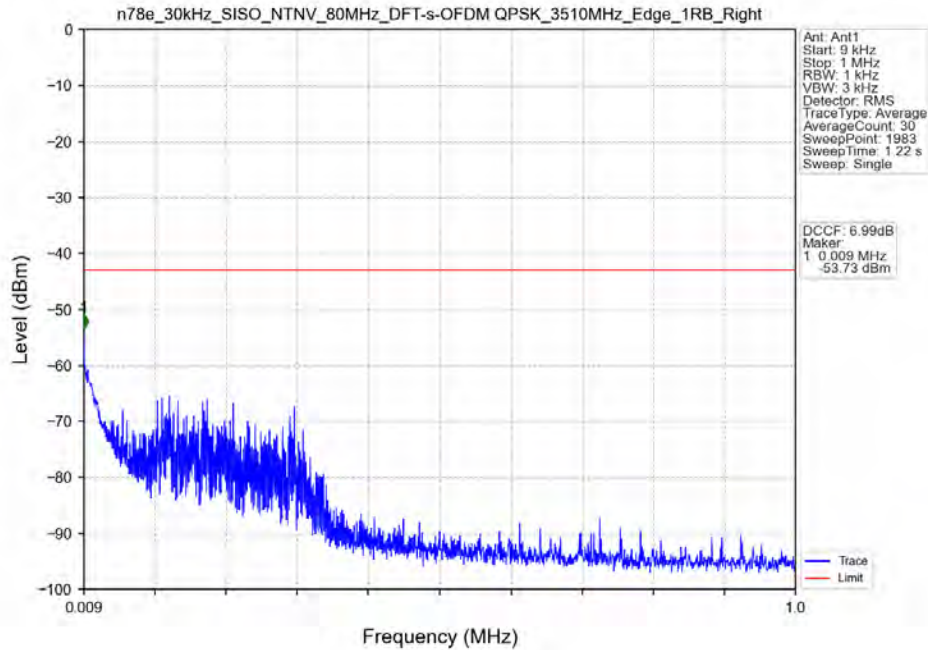
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 937 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3510MHz_Edge_1RB_Right



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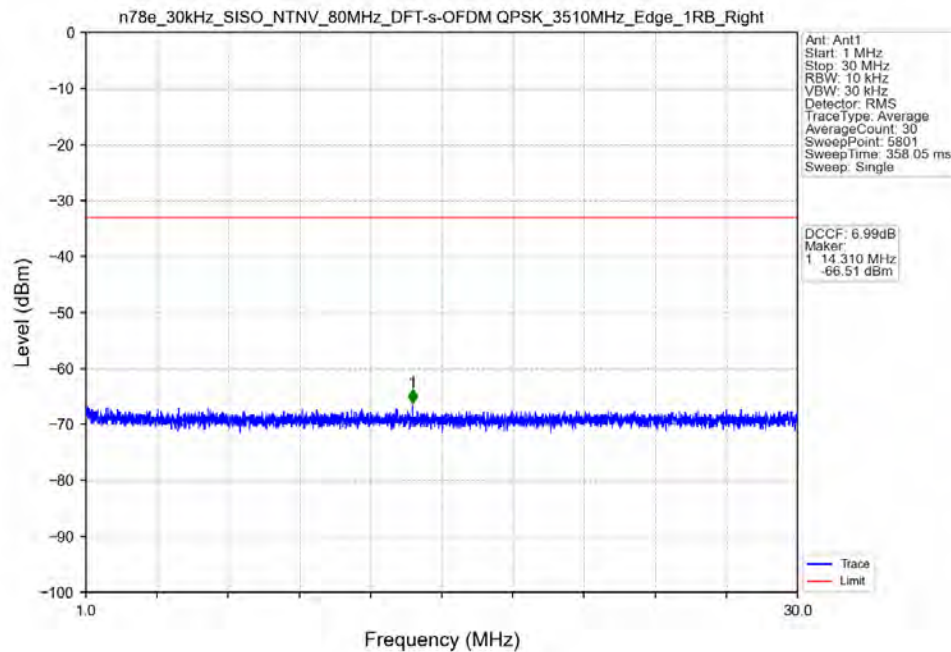


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Report No.: SZCR240100038409

Rev.: 01

Page: 938 of 1458



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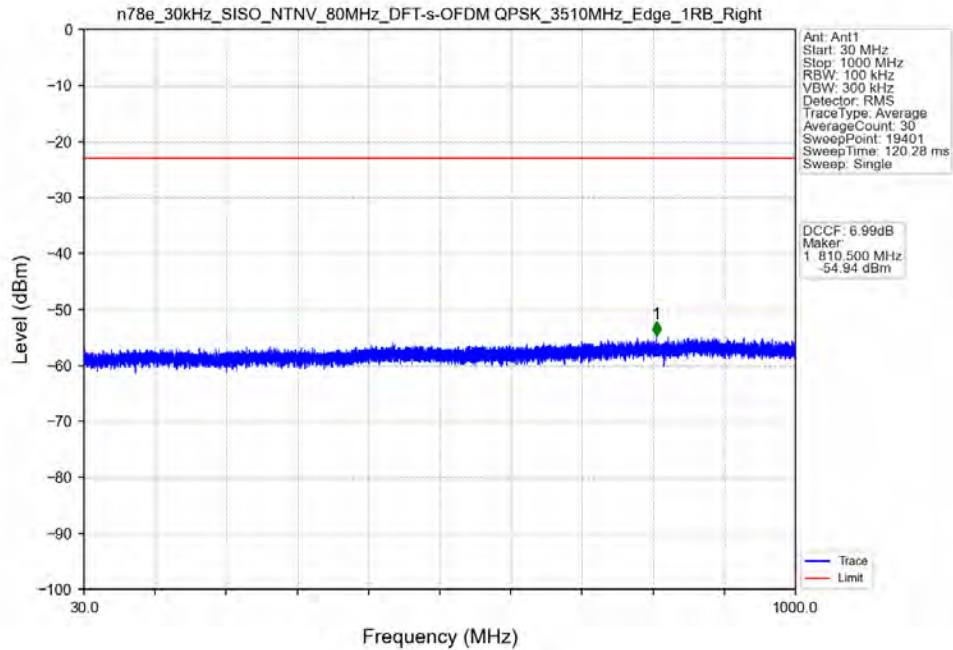
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Report No.: SZCR240100038409

Rev.: 01

Page: 939 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3510MHz_Edge_1RB_Right



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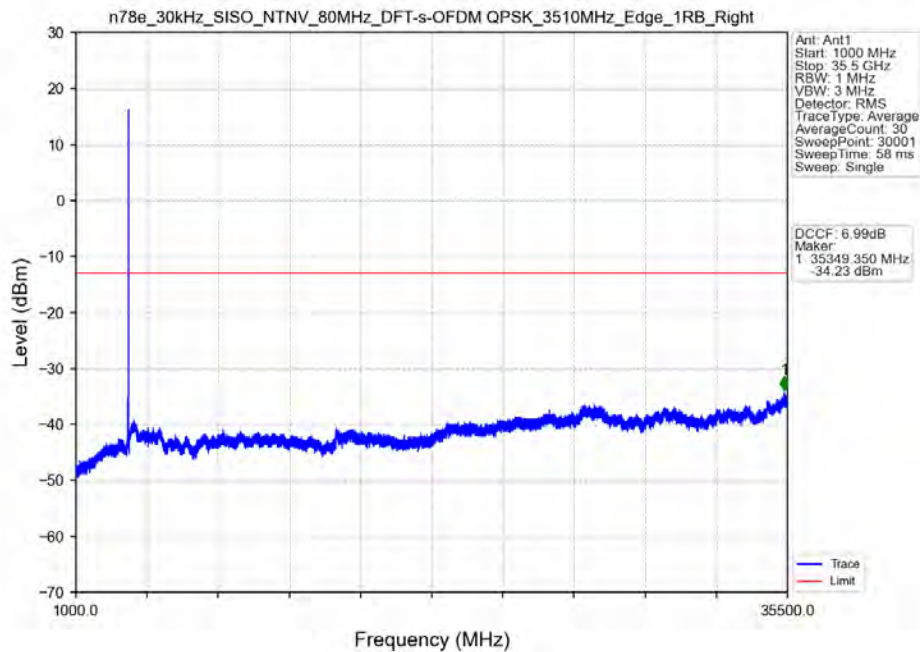


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Rev.: 01

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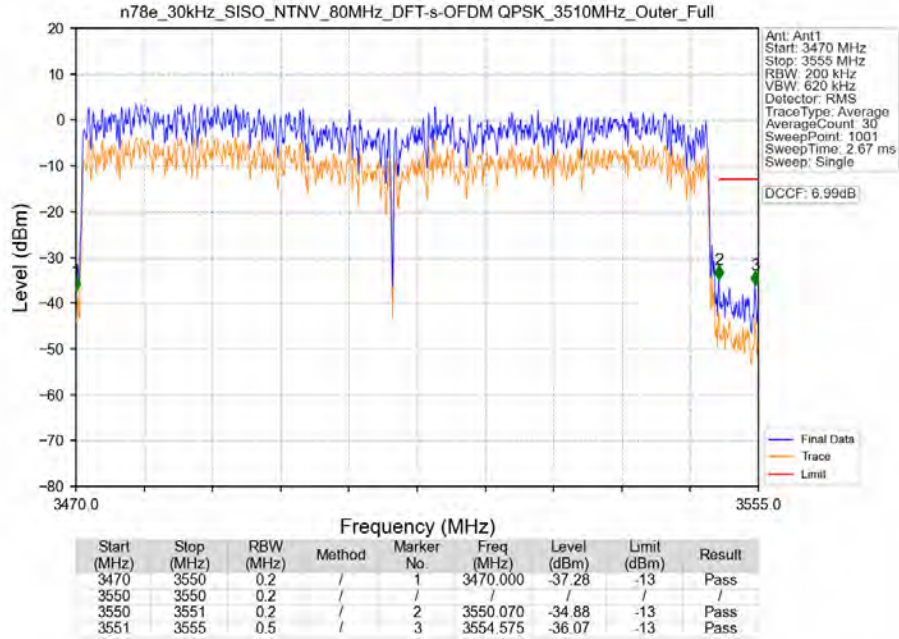
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Report No.: SZCR240100038409

Rev.: 01

Page: 941 of 1458

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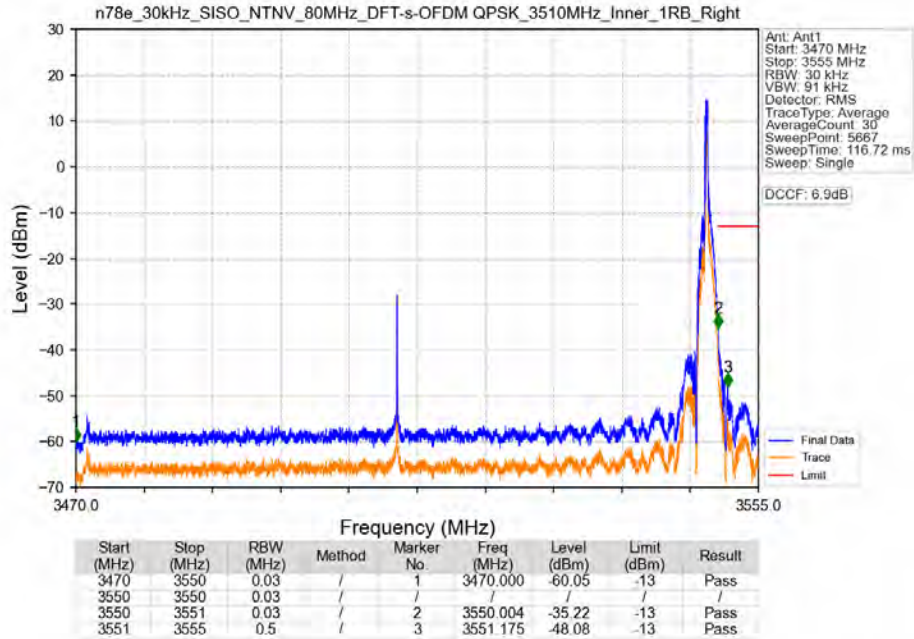


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Report No.: SZCR240100038409

Rev.: 01

Page: 942 of 1458



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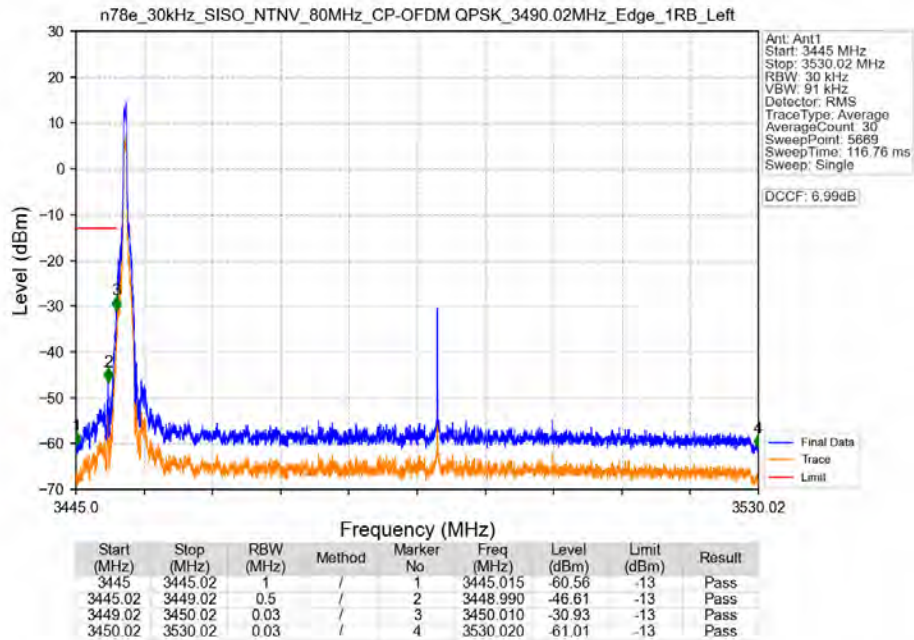
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Report No.: SZCR240100038409

Rev.: 01

Page: 943 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM_QPSK_3490.02MHz_Edge_1RB_Left



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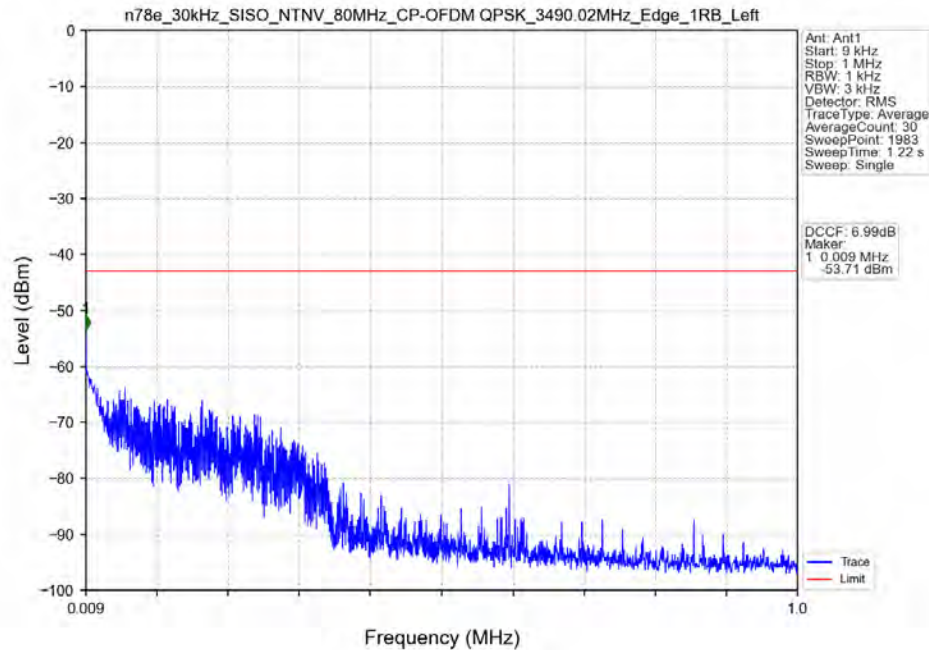


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Rev.: 01

Page: 944 of 1458



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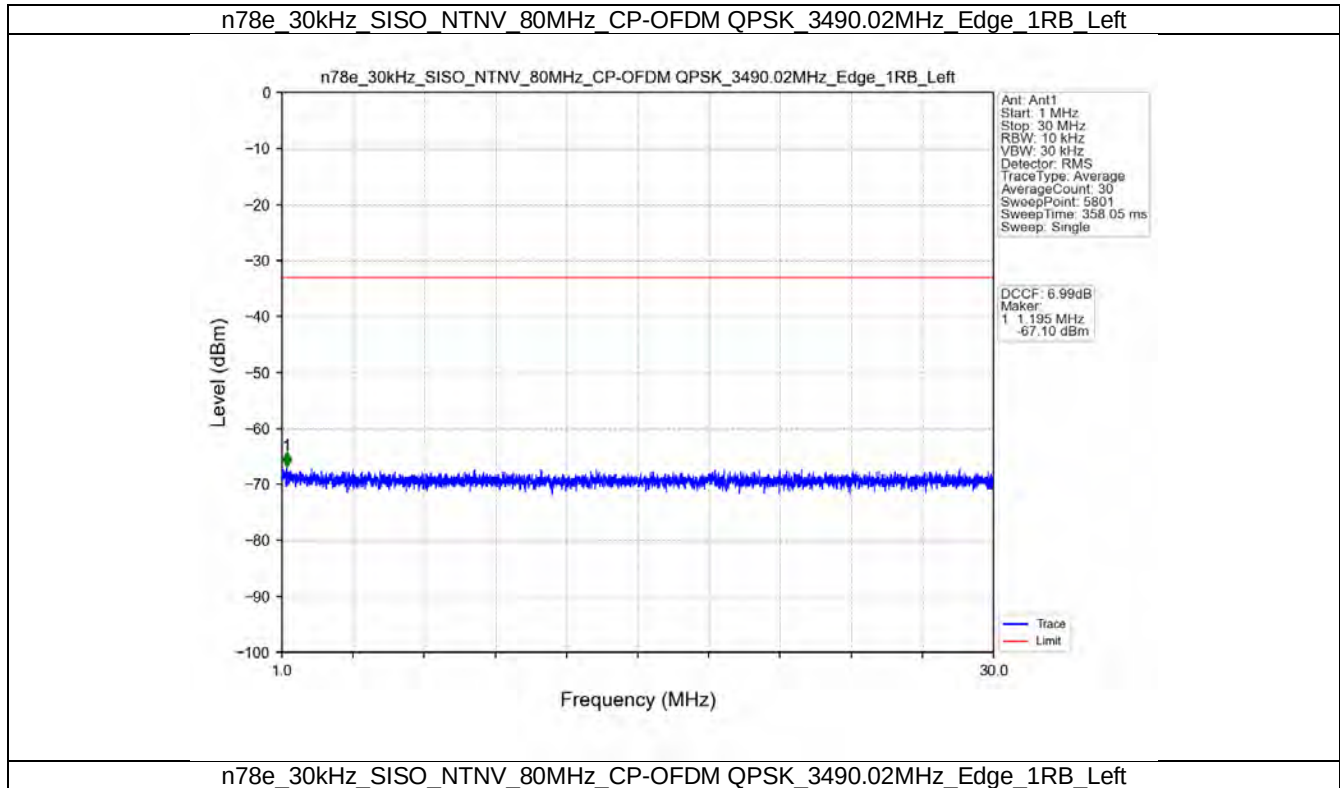


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Rev.: 01

Page: 945 of 1458



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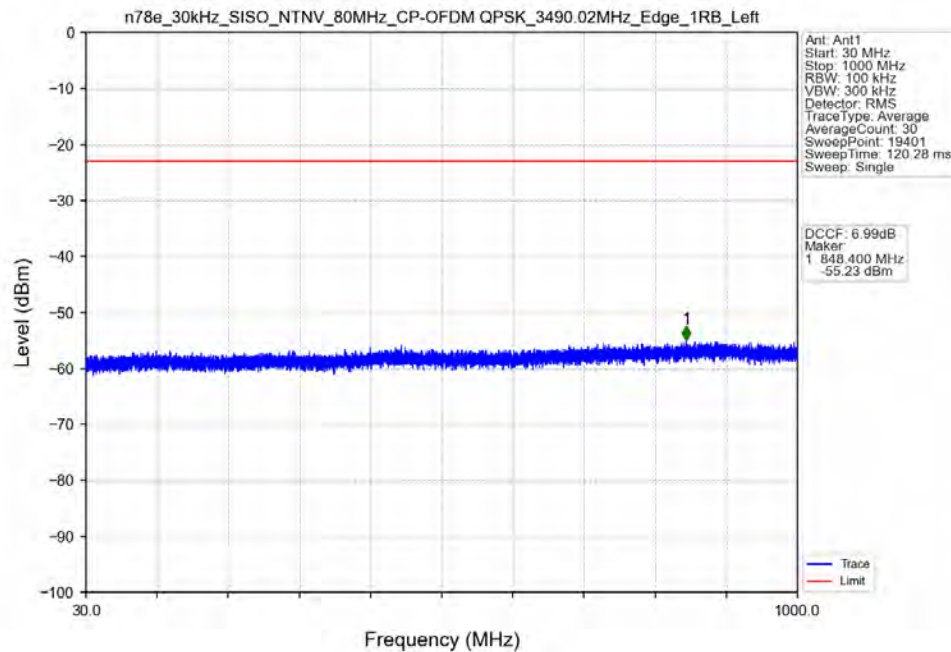


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 946 of 1458



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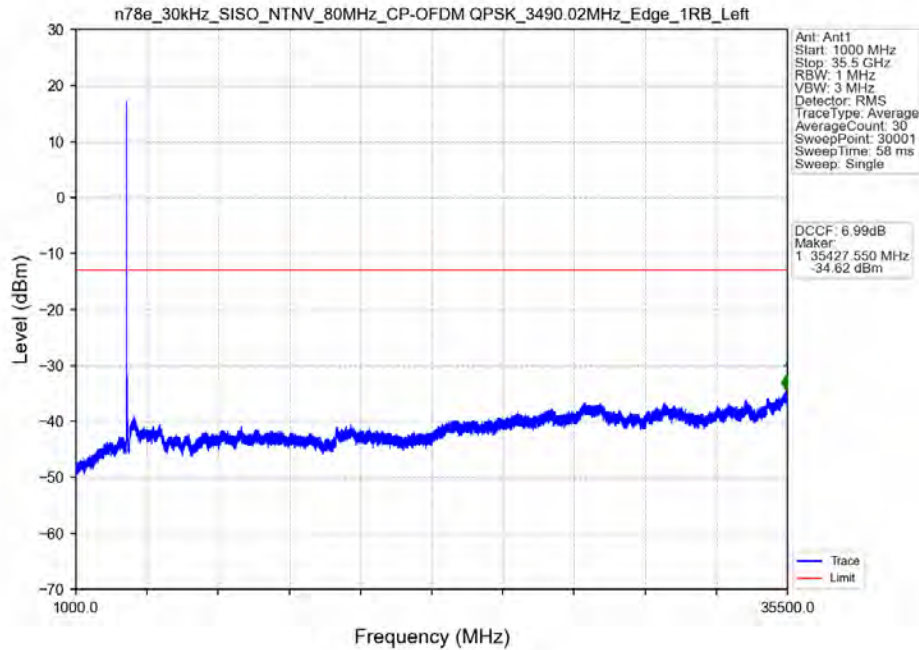
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 947 of 1458

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n78e_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3490.02MHz_Outer_Full



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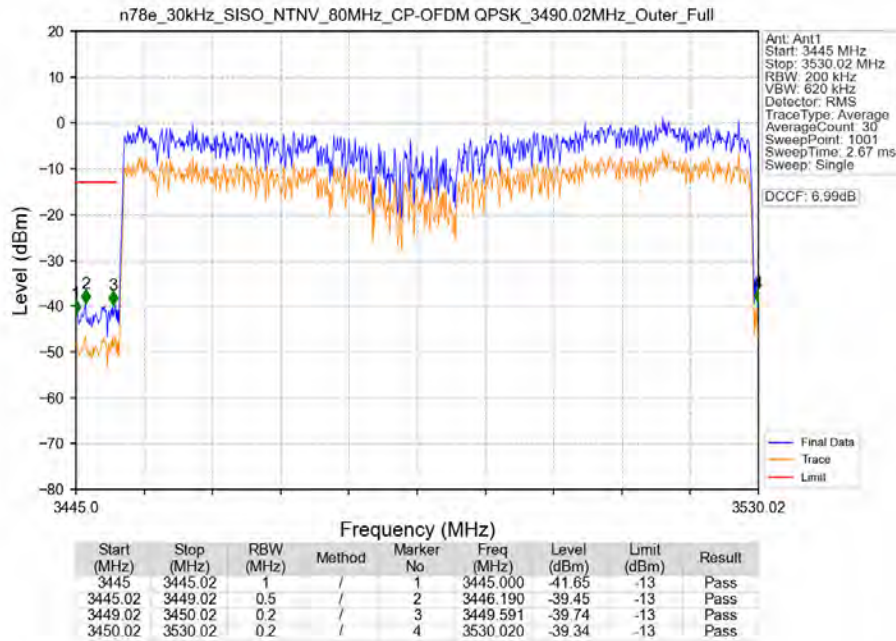


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Report No.: SZCR240100038409

Rev.: 01

Page: 948 of 1458



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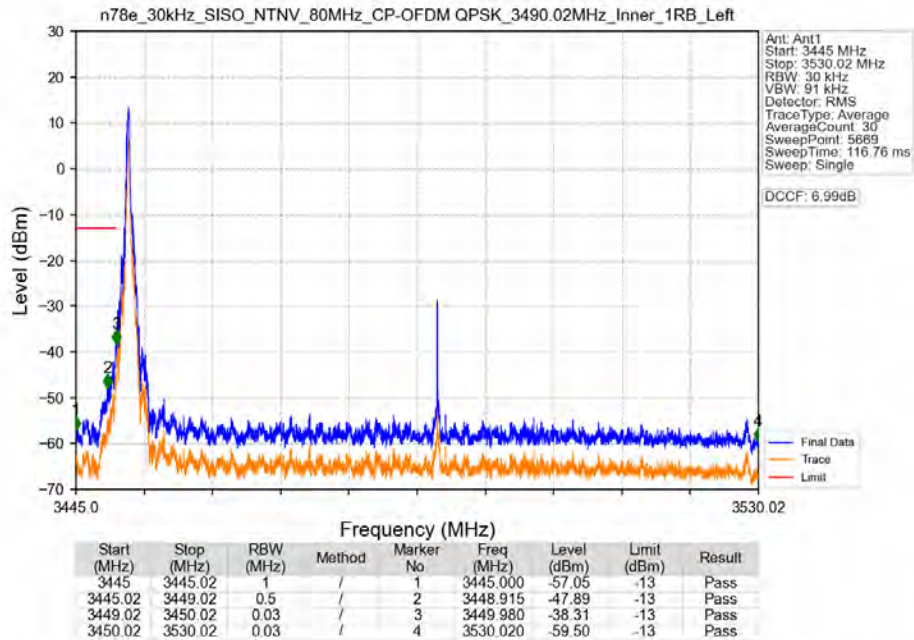
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 949 of 1458

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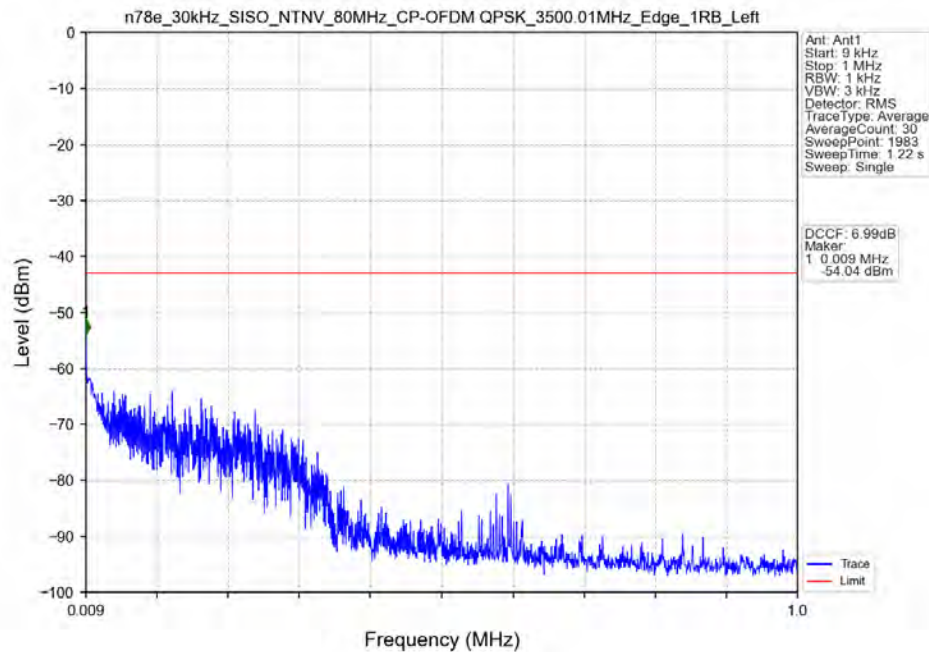


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Report No.: SZCR240100038409

Rev.: 01

Page: 950 of 1458



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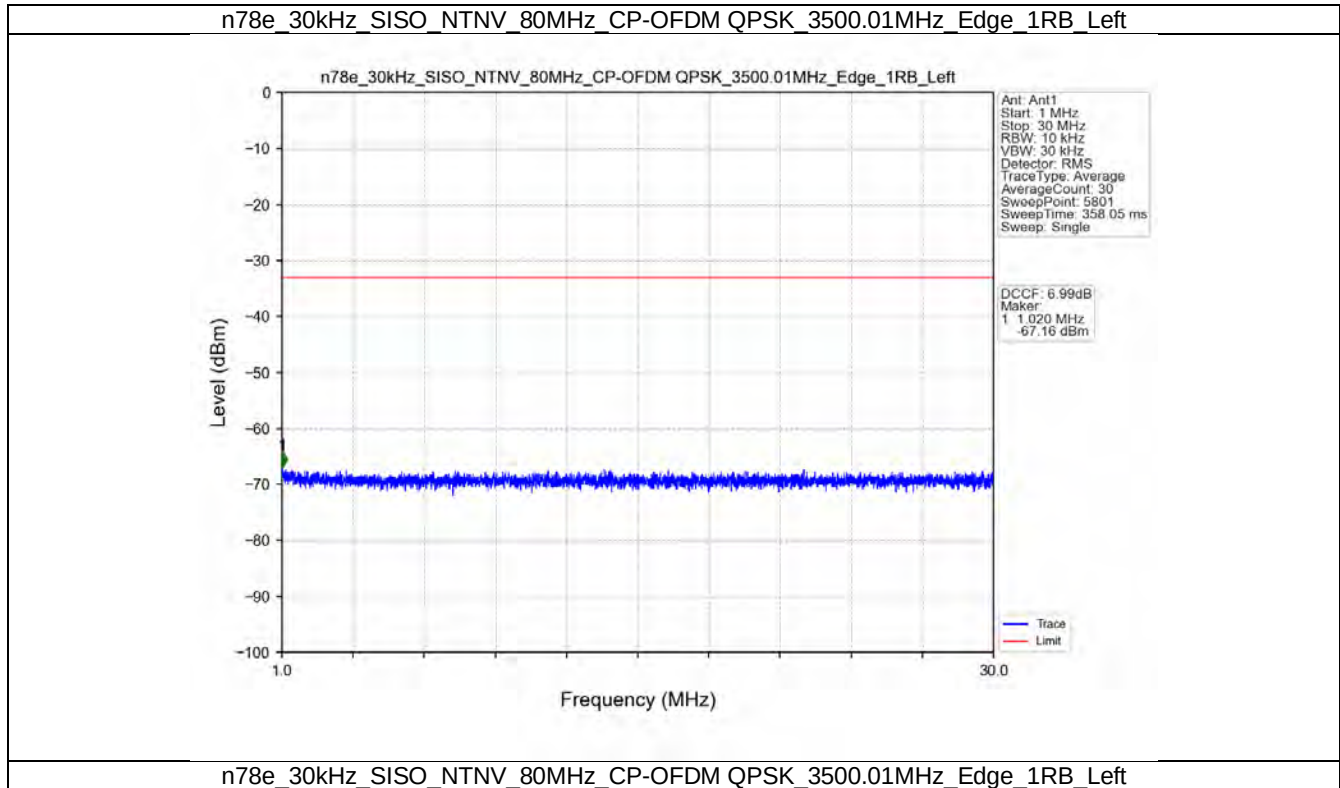


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Report No.: SZCR240100038409

Rev.: 01

Page: 951 of 1458



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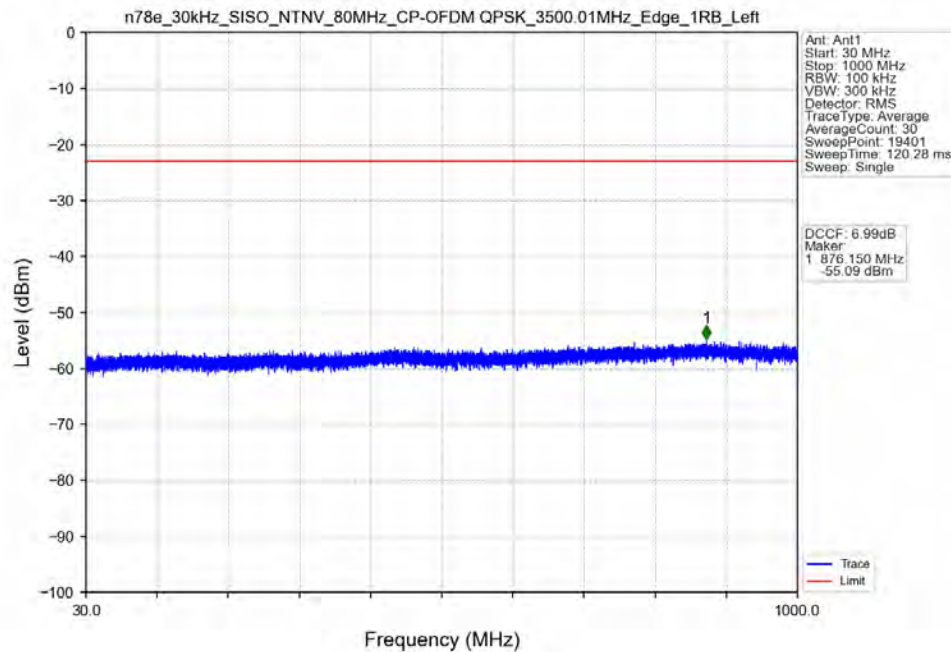


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Report No.: SZCR240100038409

Rev.: 01

Page: 952 of 1458



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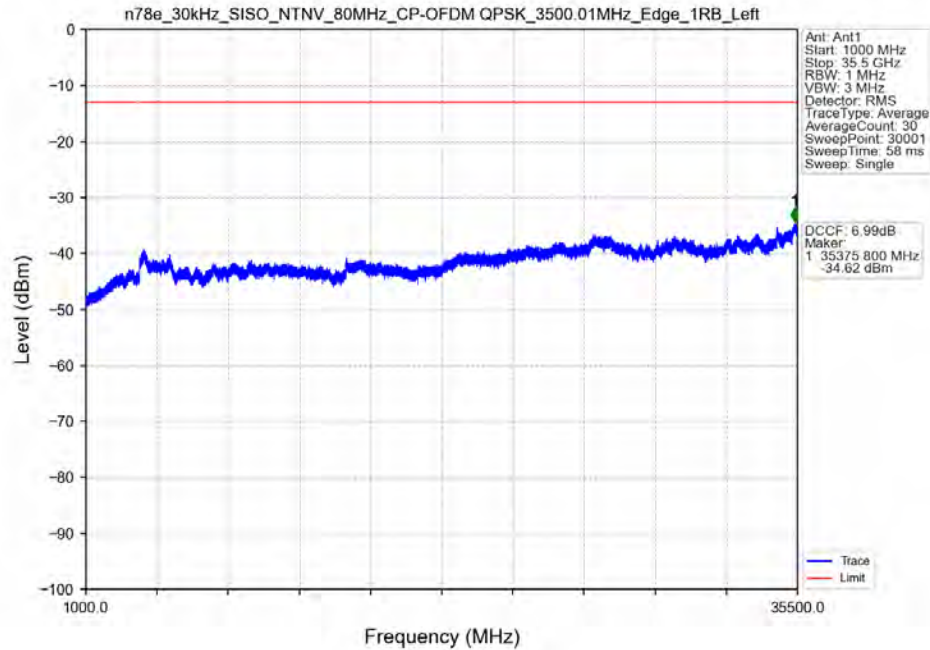
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Report No.: SZCR240100038409

Rev.: 01

Page: 953 of 1458

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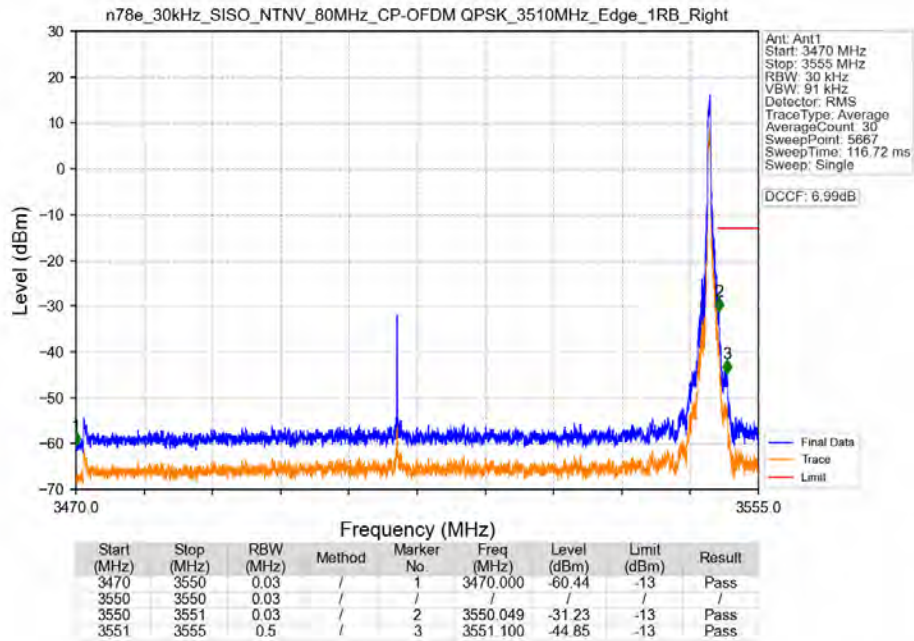


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Report No.: SZCR240100038409

Rev.: 01

Page: 954 of 1458



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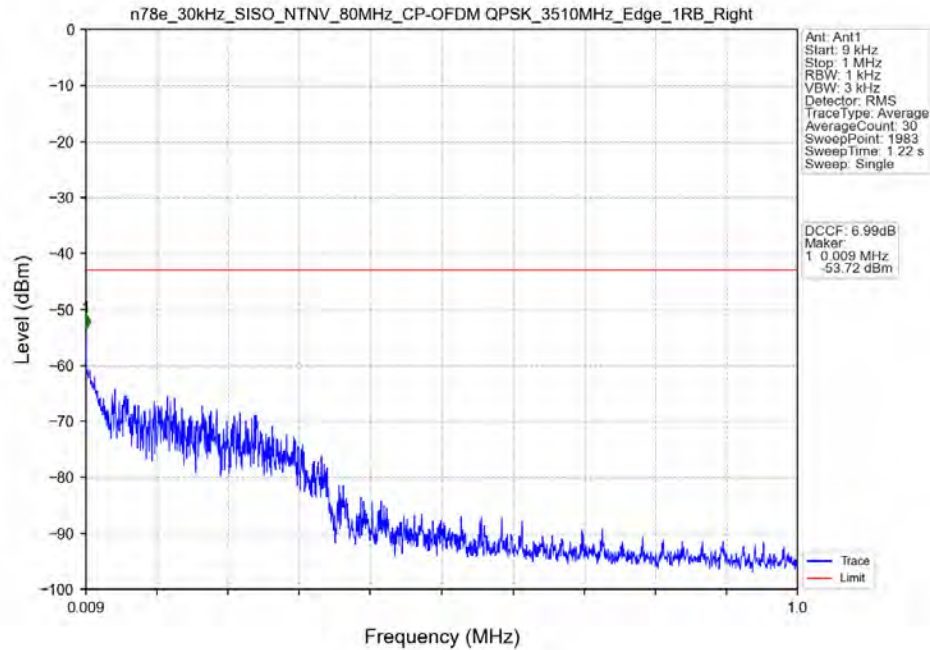
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Report No.: SZCR240100038409

Rev.: 01

Page: 955 of 1458

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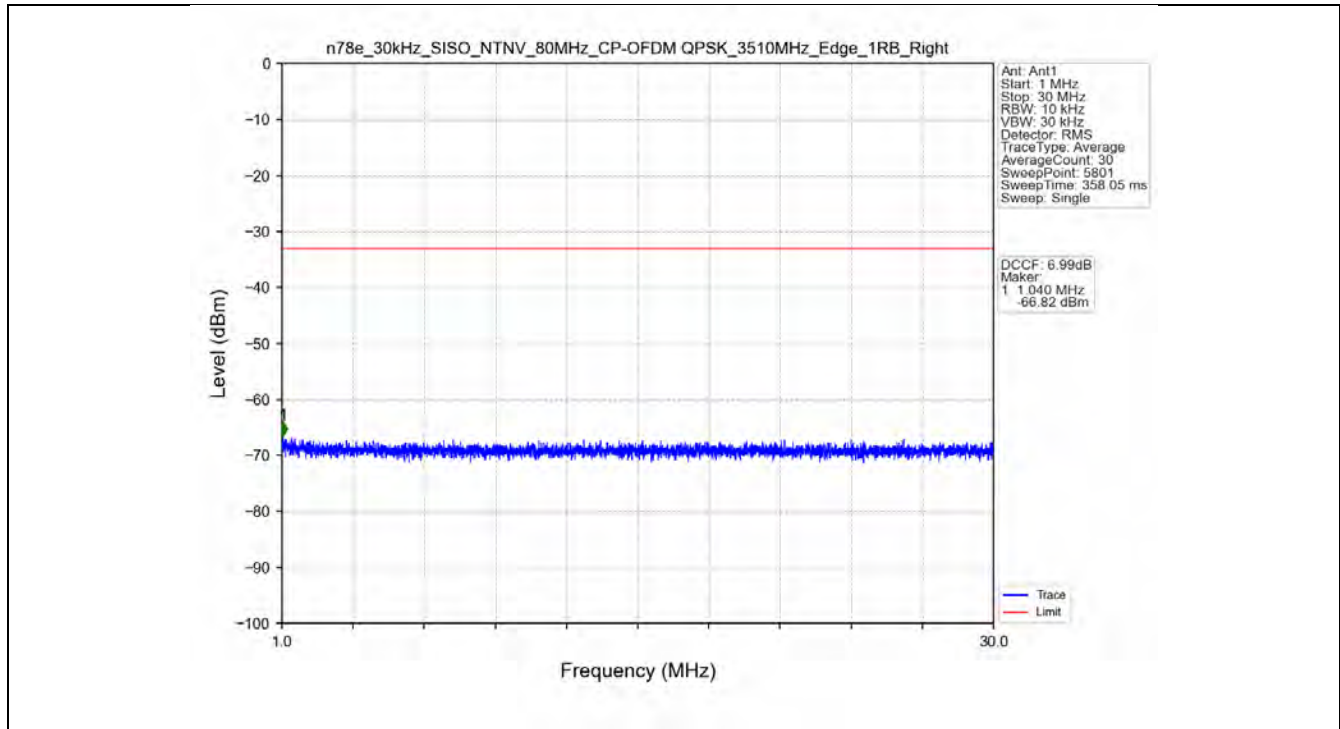


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Rev.: 01

Page: 956 of 1458



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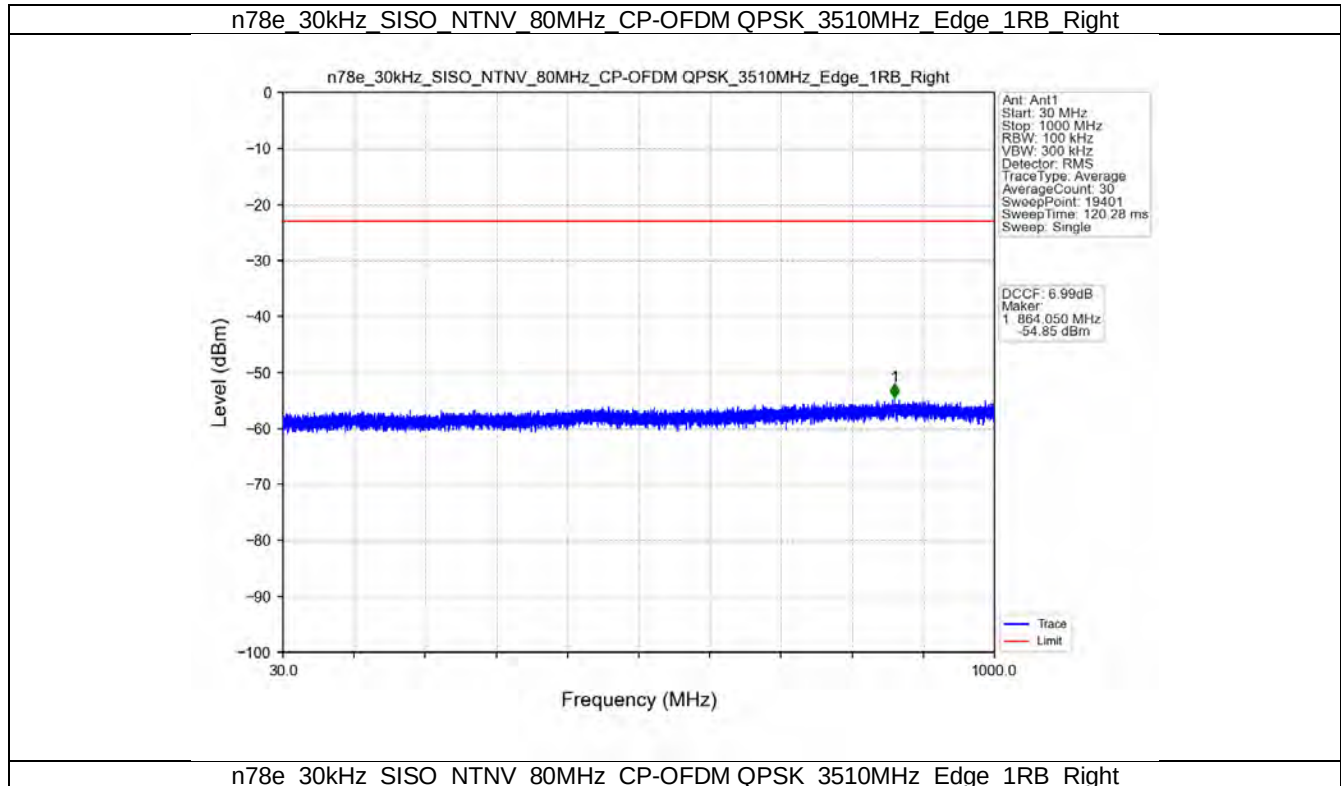


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Report No.: SZCR240100038409

Rev.: 01

Page: 957 of 1458



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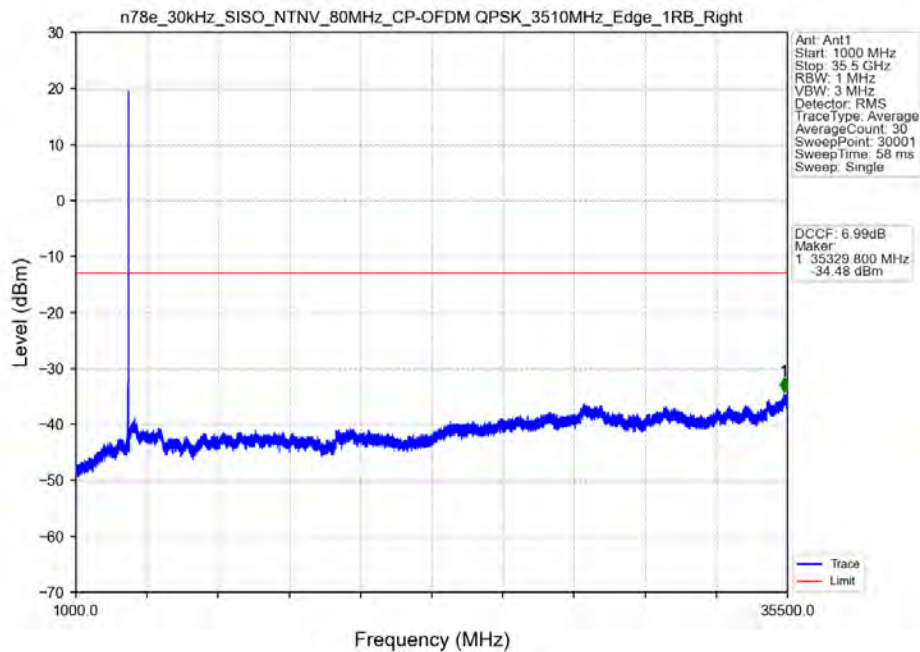


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Report No.: SZCR240100038409

Rev.: 01

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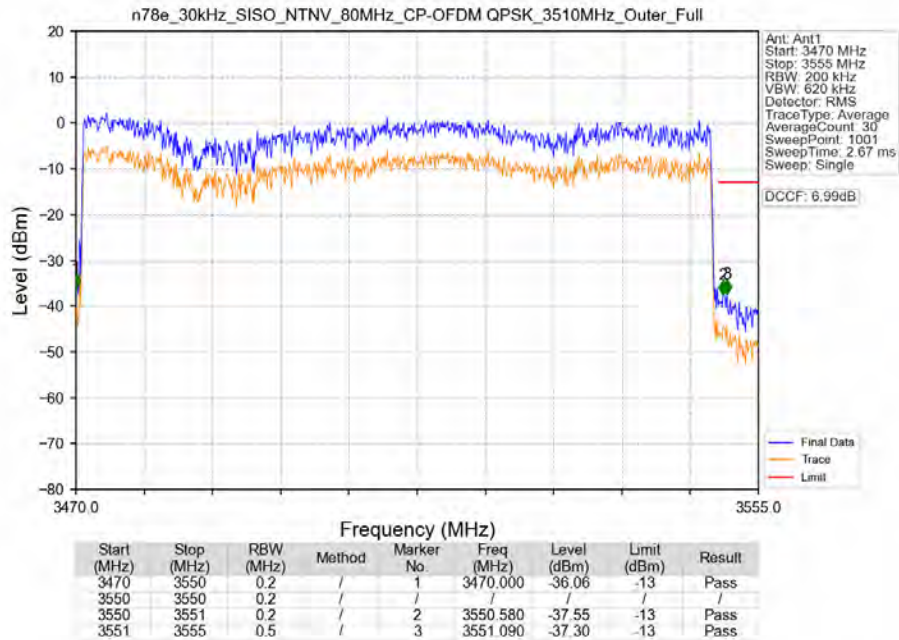
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Report No.: SZCR240100038409

Rev.: 01

Page: 959 of 1458

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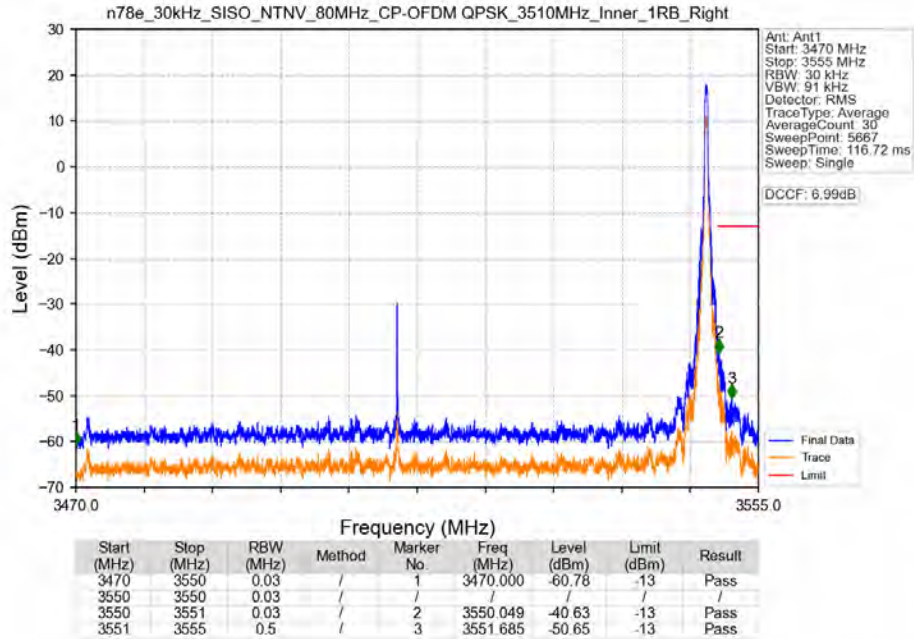


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Report No.: SZCR240100038409

Rev.: 01

Page: 960 of 1458



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Report No.: SZCR240100038409

Rev.: 01

Page: 961 of 1458

5.8 30k_SISO_90MHz_NTNV

5.8.1 Test Result

5G NR n78e SCS=30kHz SISO 90MHz NTN								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant4	Sum	Limit		
DFT-s-OFDM PI/2 BPSK	3495	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	
		3504.99	Edge_1RB_Right	Refer To Test Graph				Pass
			Outer_Full	Refer To Test Graph				Pass
DFT-s-OFDM QPSK	3495		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3500.01	Inner_1RB_Left	Refer To Test Graph				Pass	
		3504.99	Edge_1RB_Left	Refer To Test Graph				Pass
			Edge_1RB_Right	Refer To Test Graph				Pass
CP-OFDM QPSK	3495		Outer_Full	Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass	
		Edge_1RB_Left	Refer To Test Graph				Pass	
	3500.01	Outer_Full	Refer To Test Graph				Pass	
		3504.99	Edge_1RB_Left	Refer To Test Graph				Pass
			Edge_1RB_Right	Refer To Test Graph				Pass



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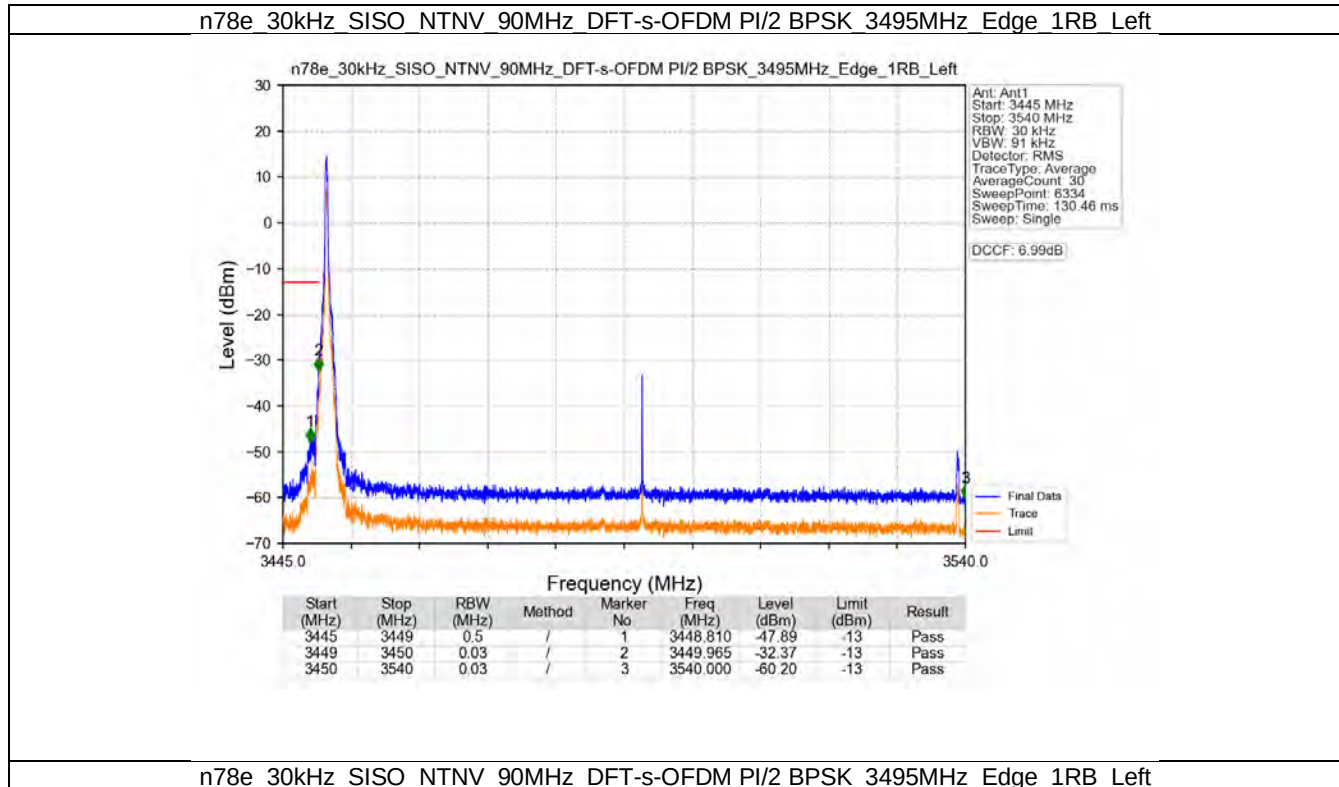
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Report No.: SZCR240100038409

Rev.: 01

Page: 962 of 1458

5.8.2 Test Graph



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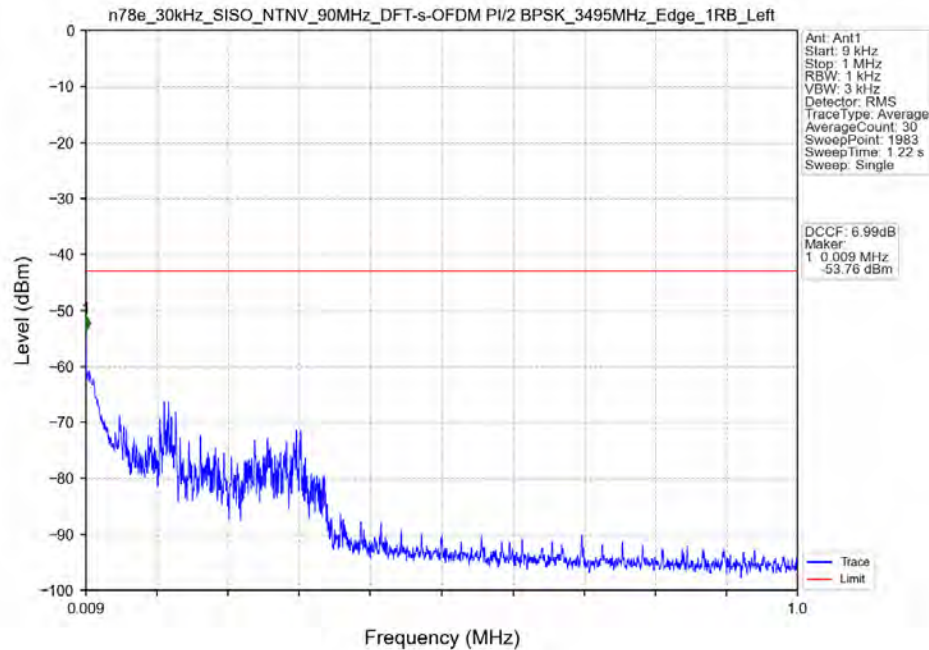


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Report No.: SZCR240100038409

Rev.: 01

Page: 963 of 1458



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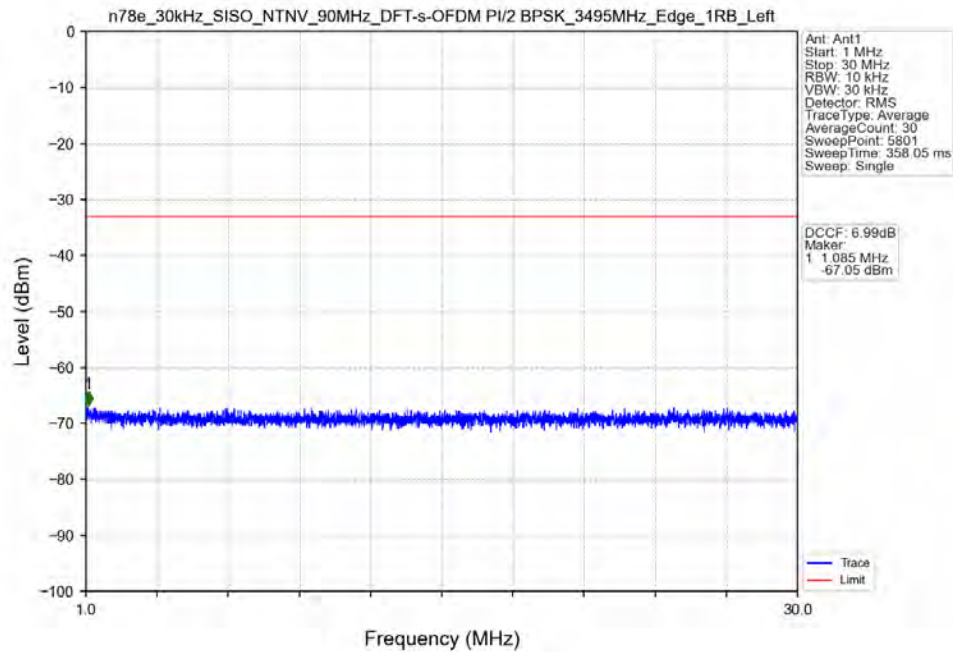
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 964 of 1458

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3495MHz_Edge_1RB_Left



n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3495MHz_Edge_1RB_Left



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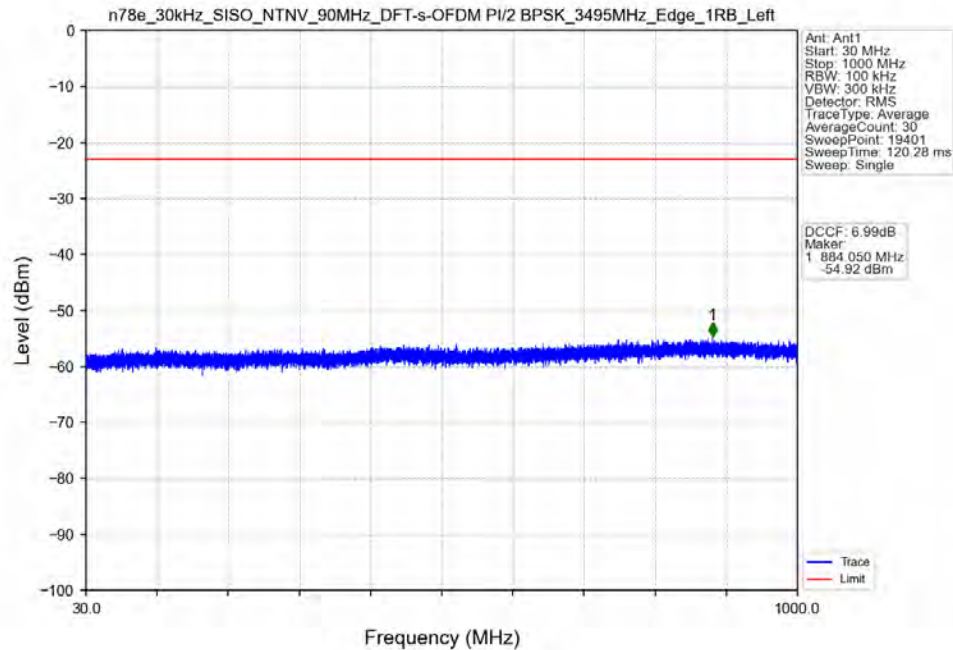


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Report No.: SZCR240100038409

Rev.: 01

Page: 965 of 1458



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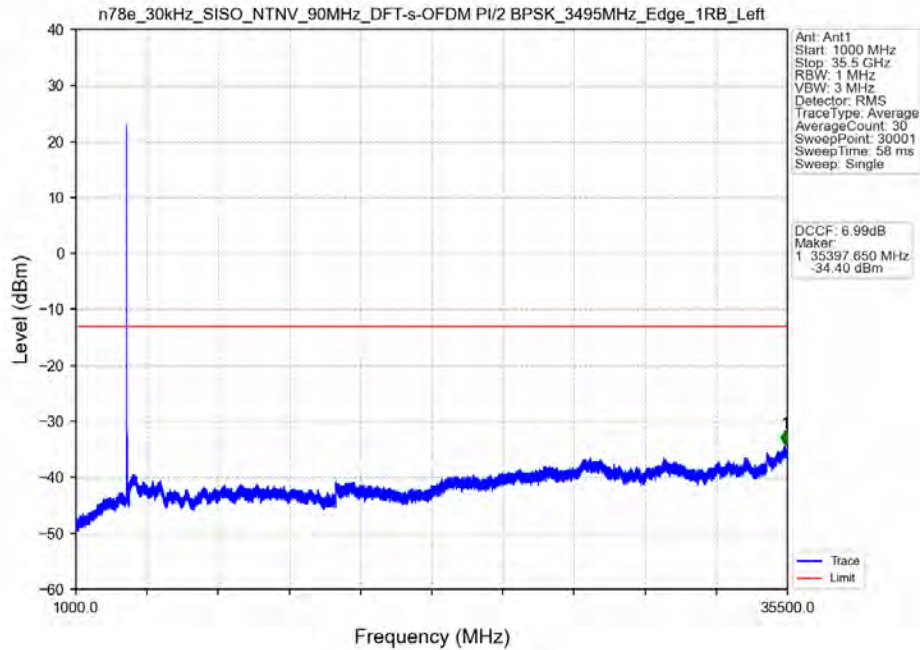
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Report No.: SZCR240100038409

Rev.: 01

Page: 966 of 1458

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3495MHz_Edge_1RB_Left



n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3495MHz_Outer_Full



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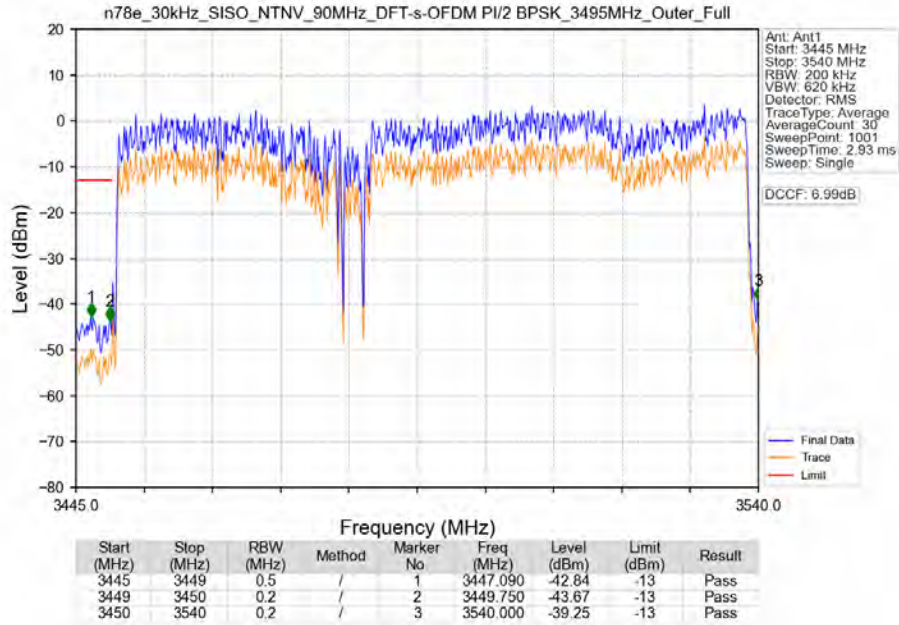


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Report No.: SZCR240100038409

Rev.: 01

Page: 967 of 1458



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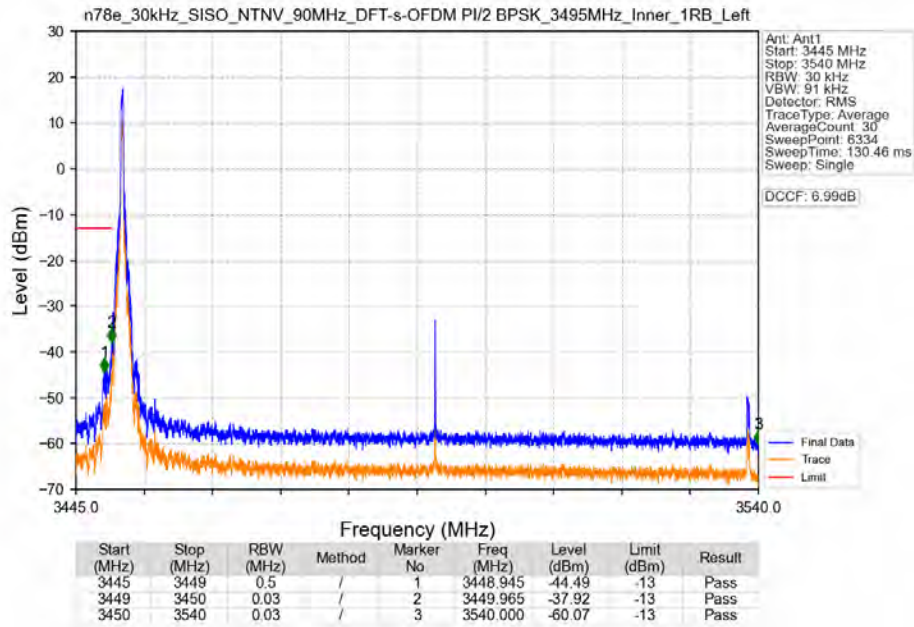
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Report No.: SZCR240100038409

Rev.: 01

Page: 968 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3500.01MHz_Edge_1RB_Left



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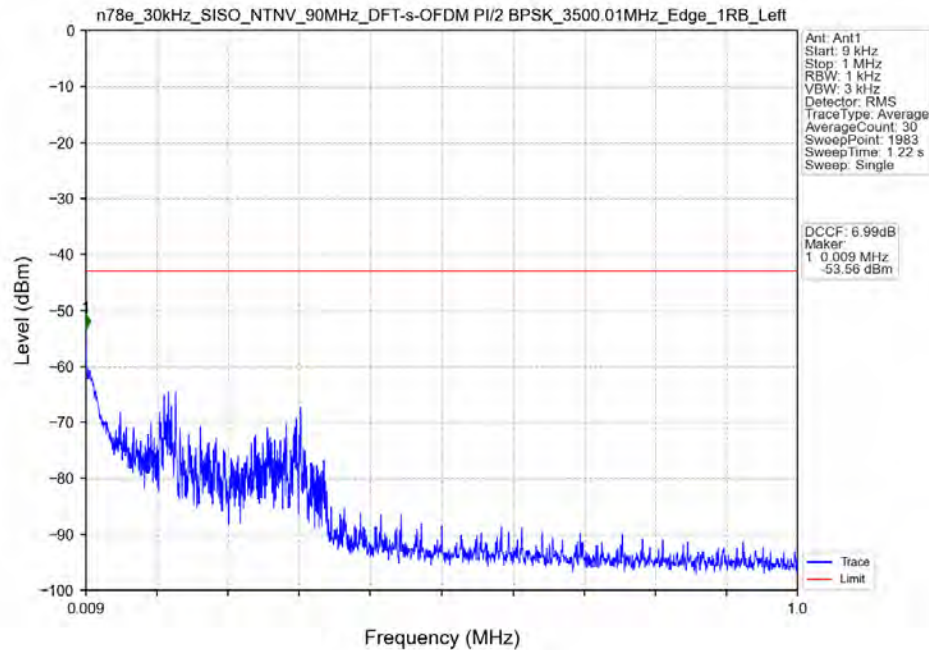


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Report No.: SZCR240100038409

Rev.: 01

Page: 969 of 1458



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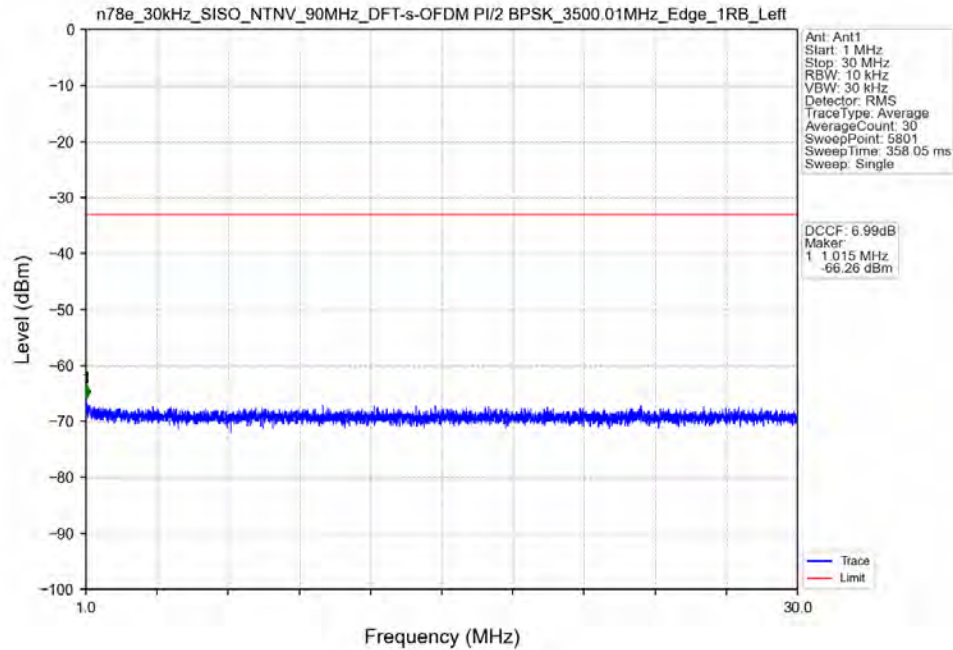
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Report No.: SZCR240100038409

Rev.: 01

Page: 970 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3500.01MHz_Edge_1RB_Left



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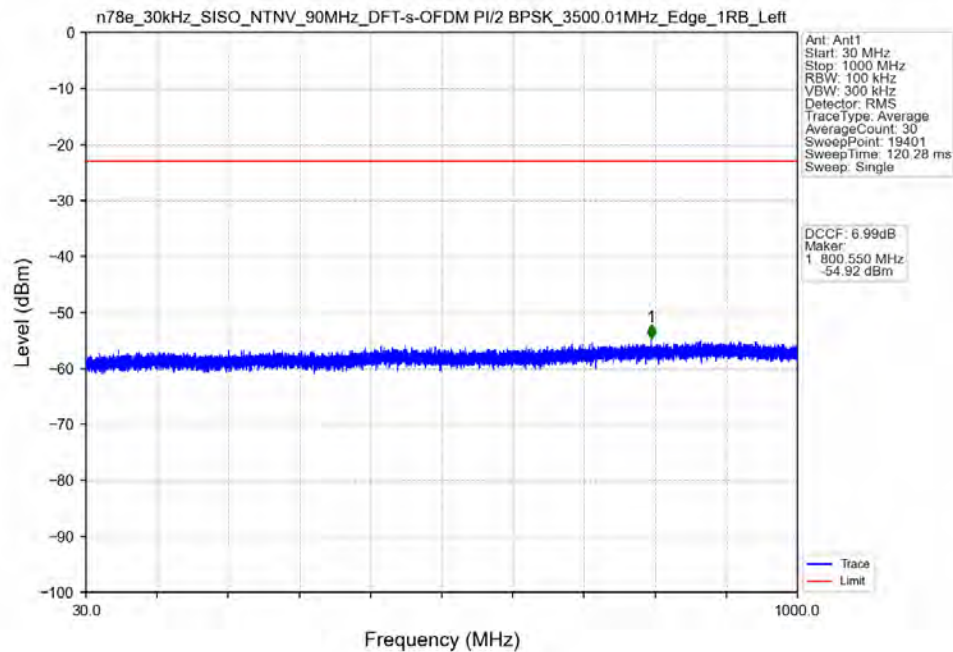


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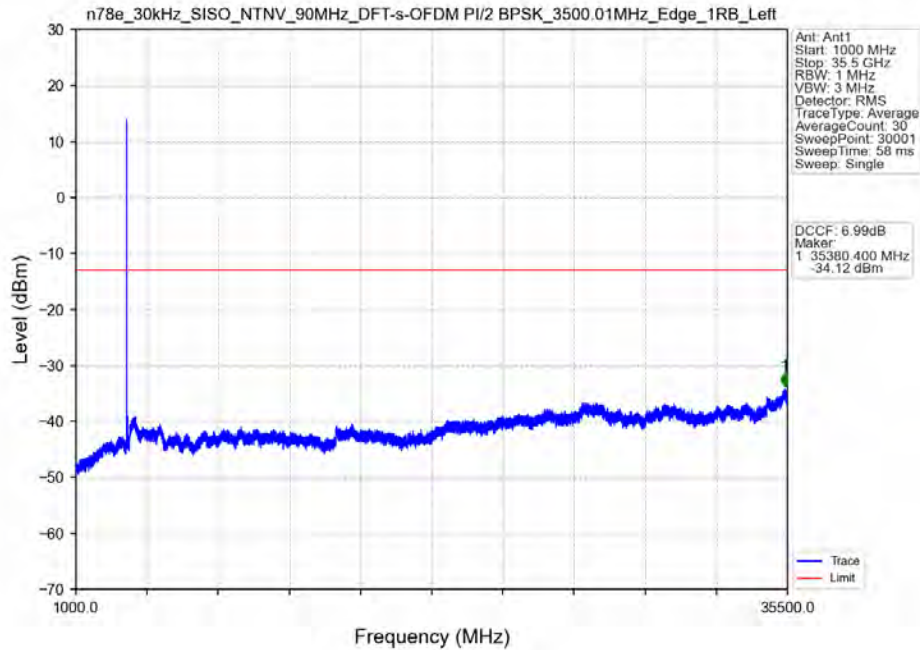
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Report No.: SZCR240100038409

Rev.: 01

Page: 972 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3504.99MHz_Edge_1RB_Right



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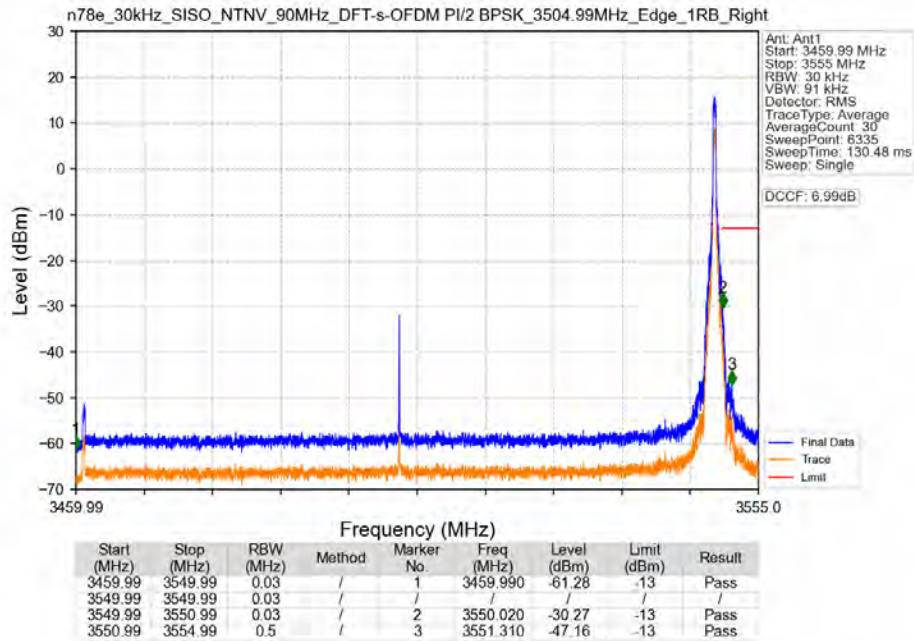


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Rev.: 01

Page: 973 of 1458



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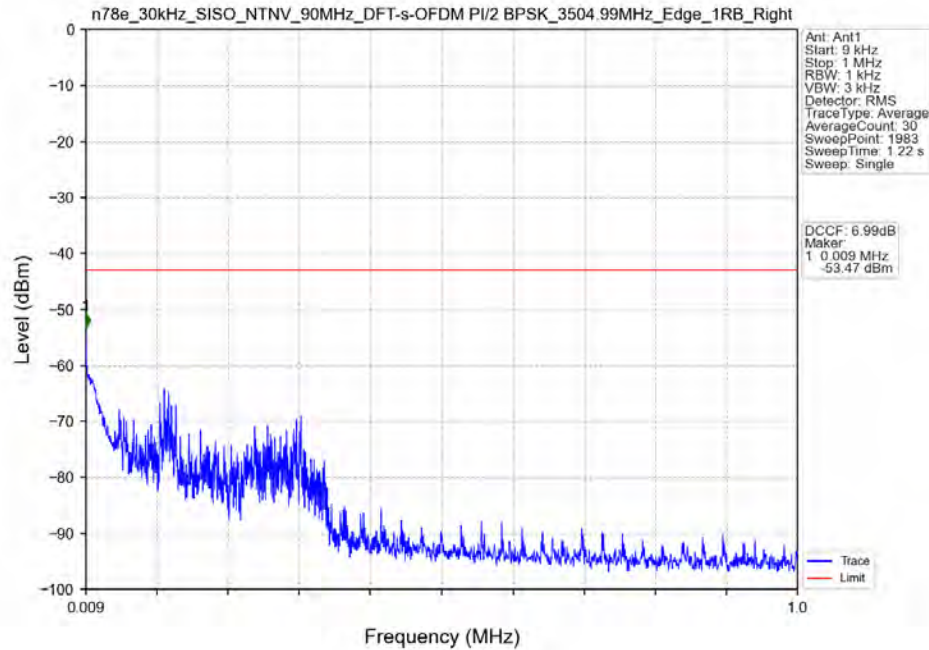
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Report No.: SZCR240100038409

Rev.: 01

Page: 974 of 1458

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3504.99MHz_Edge_1RB_Right



n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3504.99MHz_Edge_1RB_Right



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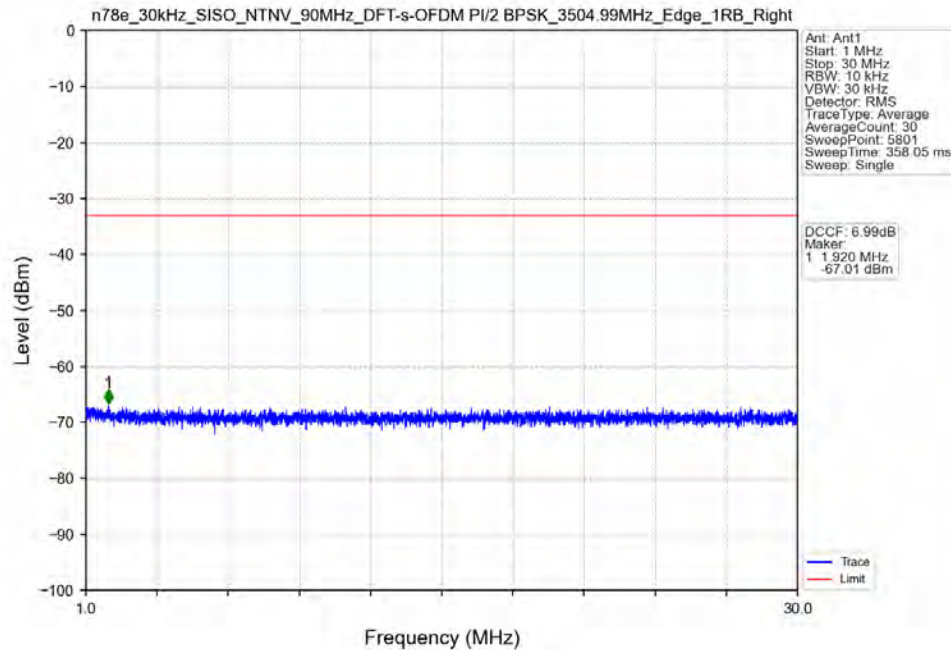


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 975 of 1458



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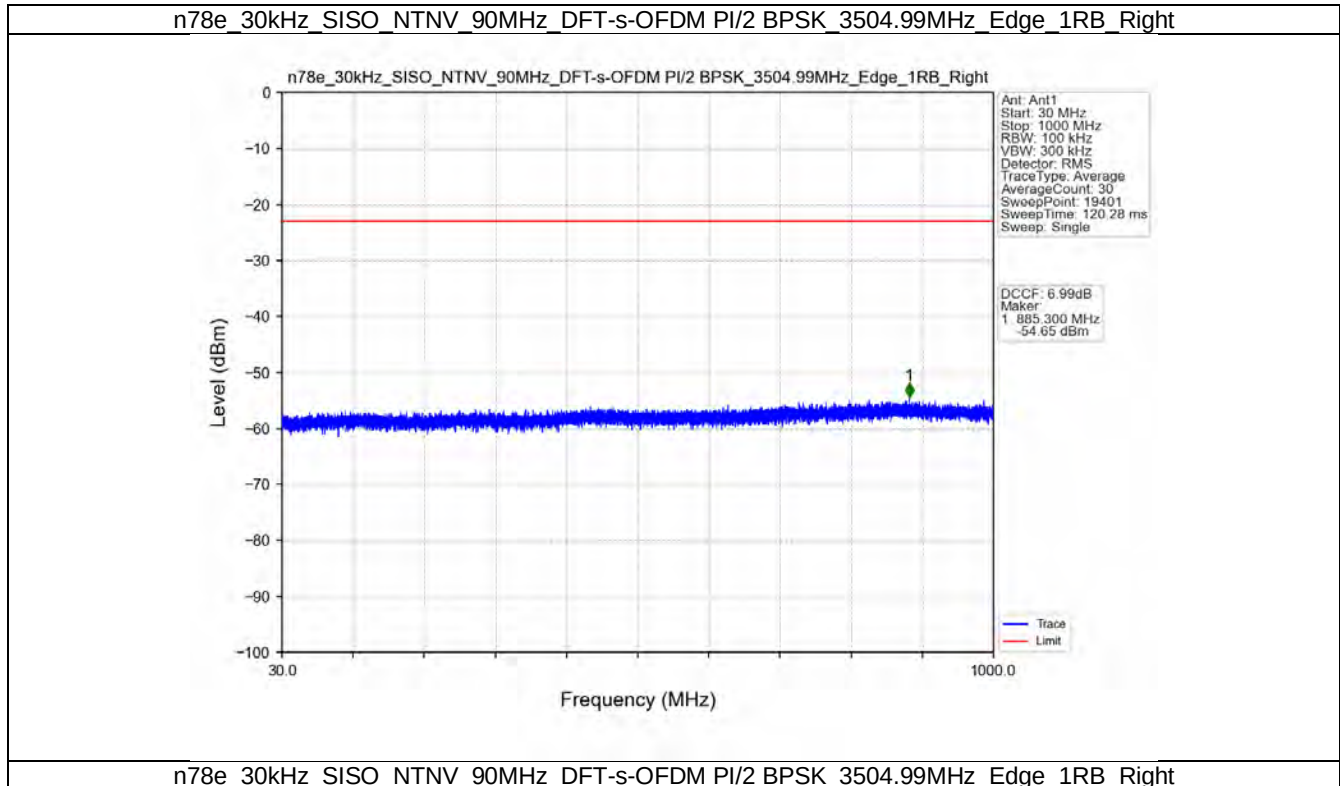


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Report No.: SZCR240100038409

Rev.: 01

Page: 976 of 1458



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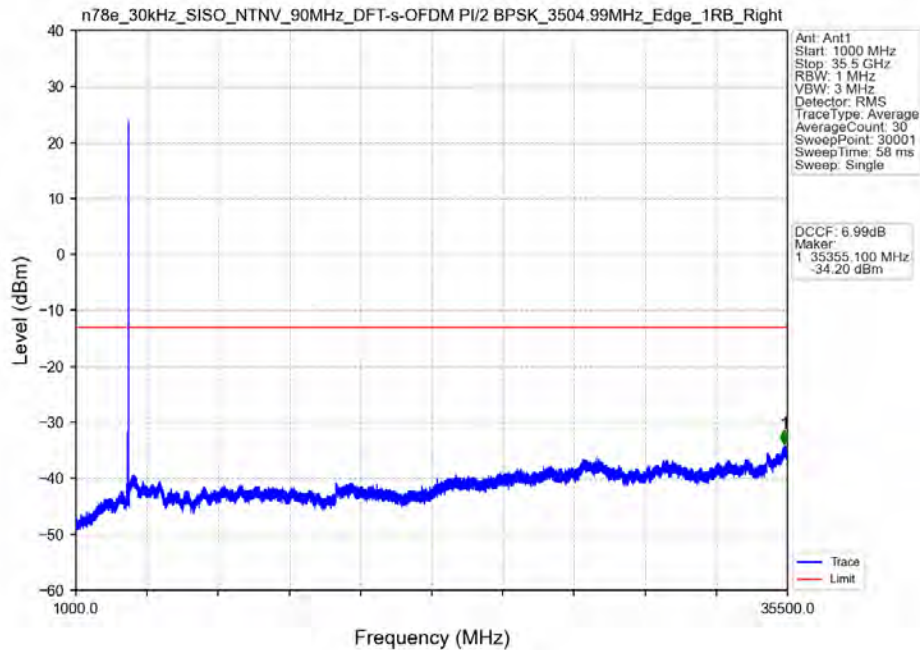


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 977 of 1458



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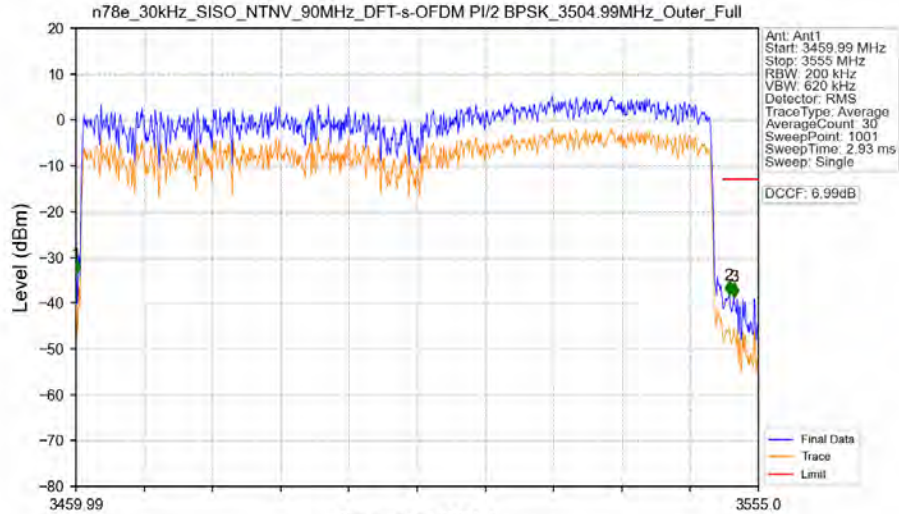
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 978 of 1458

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3459.99	3549.99	0.2	/	1	3459.990	-33.65	-13	Pass
3549.99	3549.99	0.2	/	/	/	/	/	/
3549.99	3550.99	0.2	/	2	3550.915	-38.20	-13	Pass
3550.99	3554.99	0.5	/	3	3551.580	-38.64	-13	Pass

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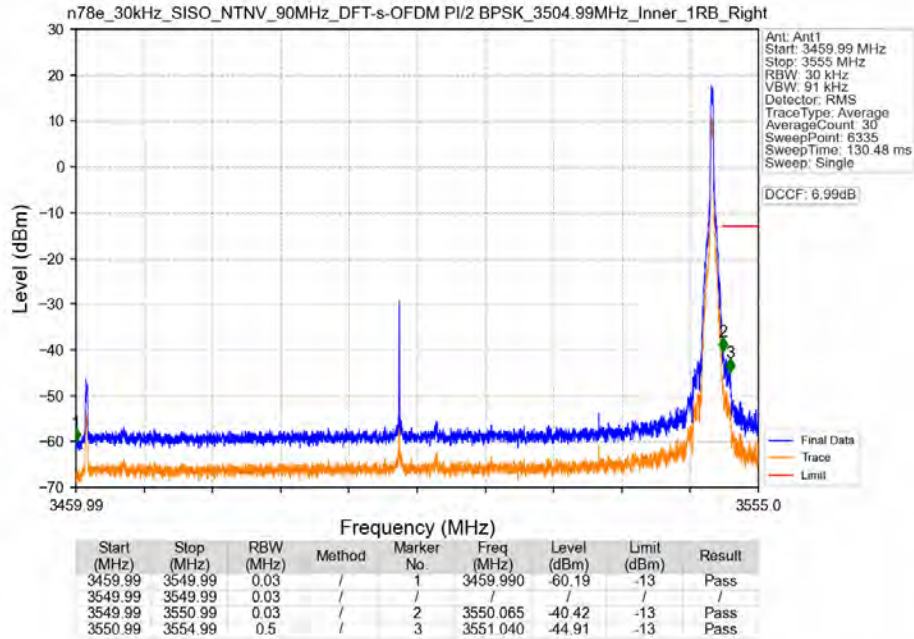


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Report No.: SZCR240100038409

Rev.: 01

Page: 979 of 1458



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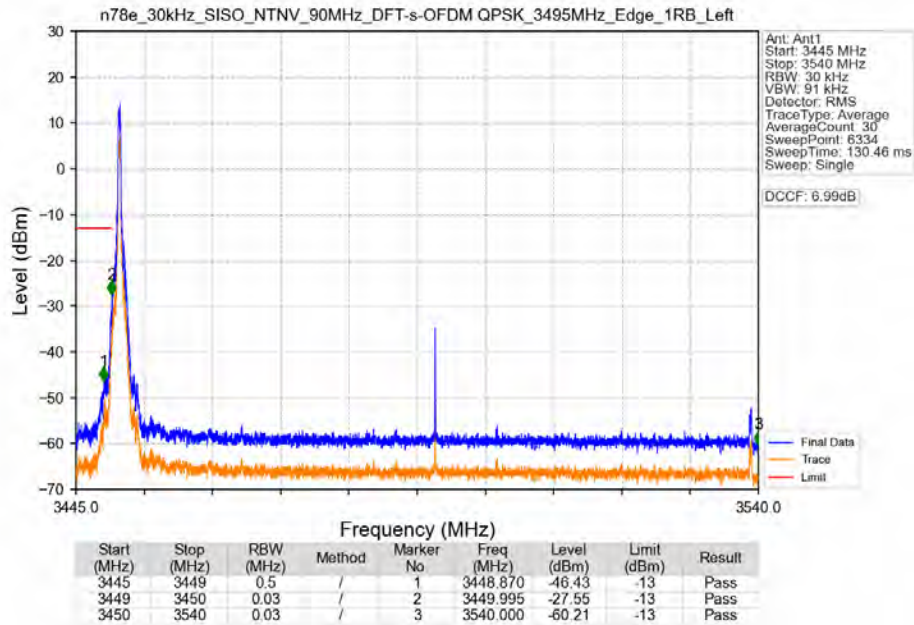
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 980 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_QPSK_3495MHz_Edge_1RB_Left



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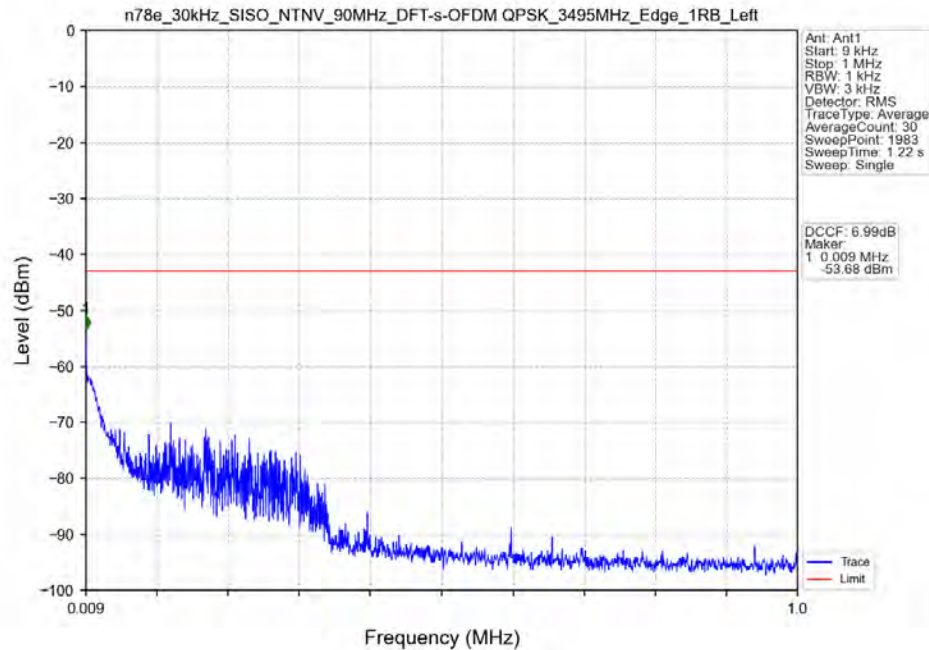


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Report No.: SZCR240100038409

Rev.: 01

Page: 981 of 1458



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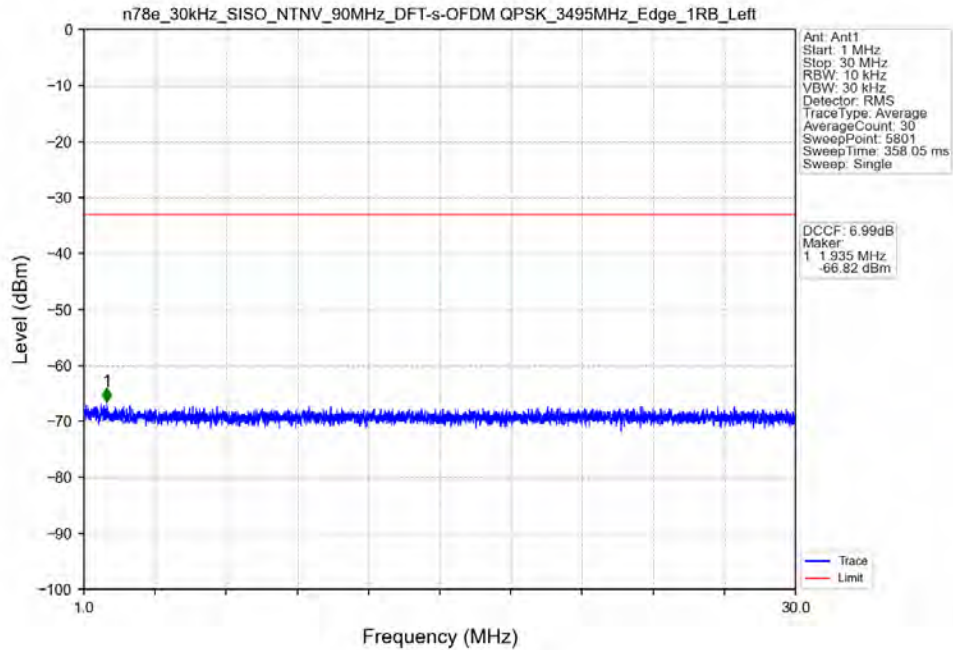
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Report No.: SZCR240100038409

Rev.: 01

Page: 982 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3495MHz_Edge_1RB_Left



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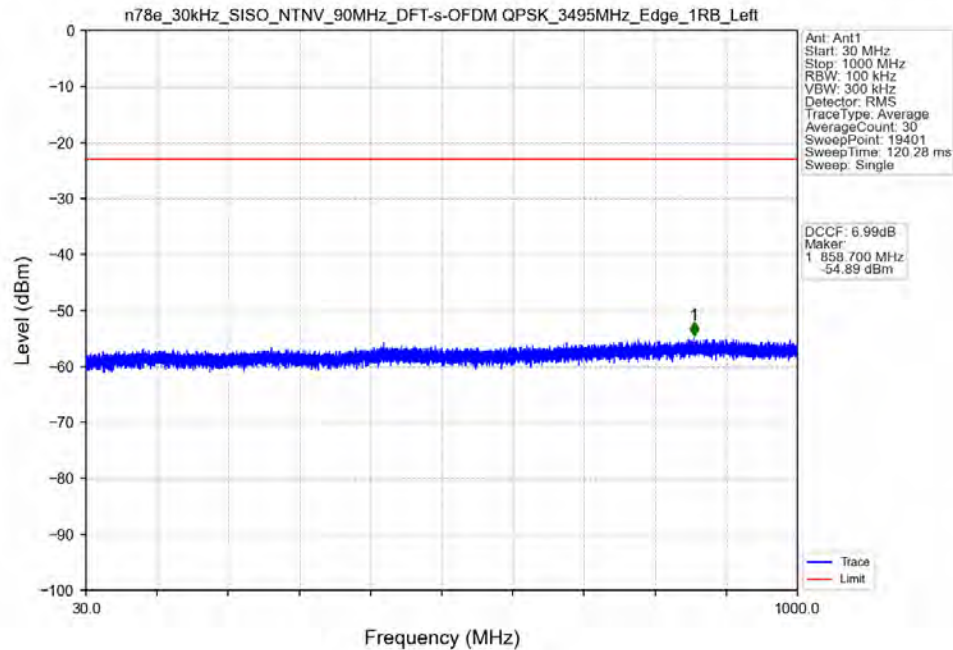


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Report No.: SZCR240100038409

Rev.: 01

Page: 983 of 1458



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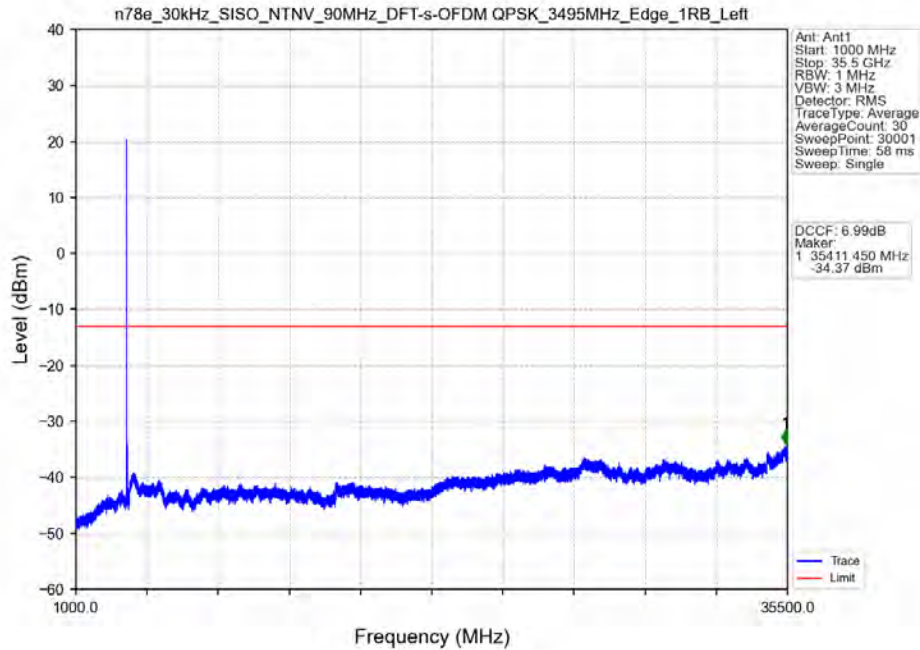
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Report No.: SZCR240100038409

Rev.: 01

Page: 984 of 1458

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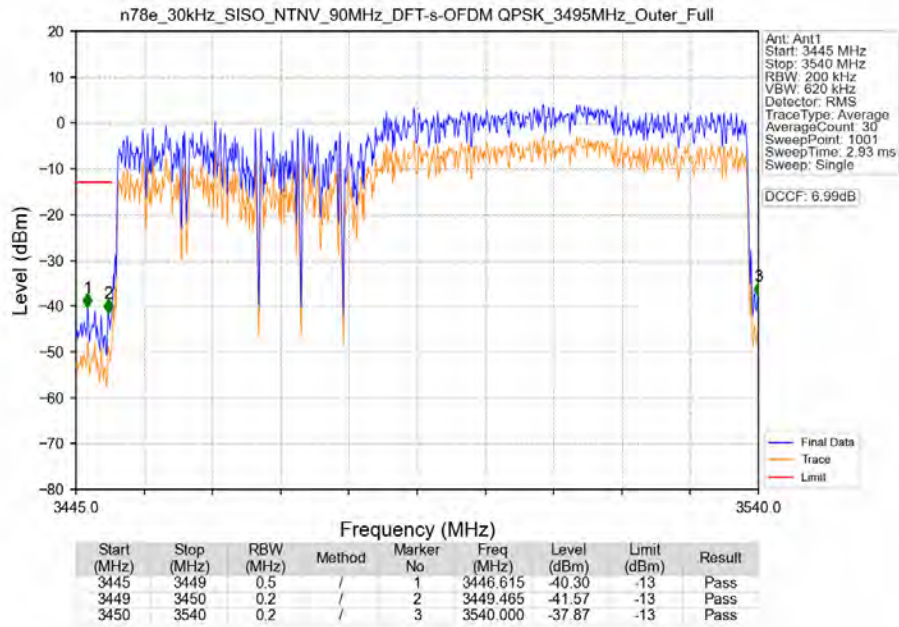


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Report No.: SZCR240100038409

Rev.: 01

Page: 985 of 1458



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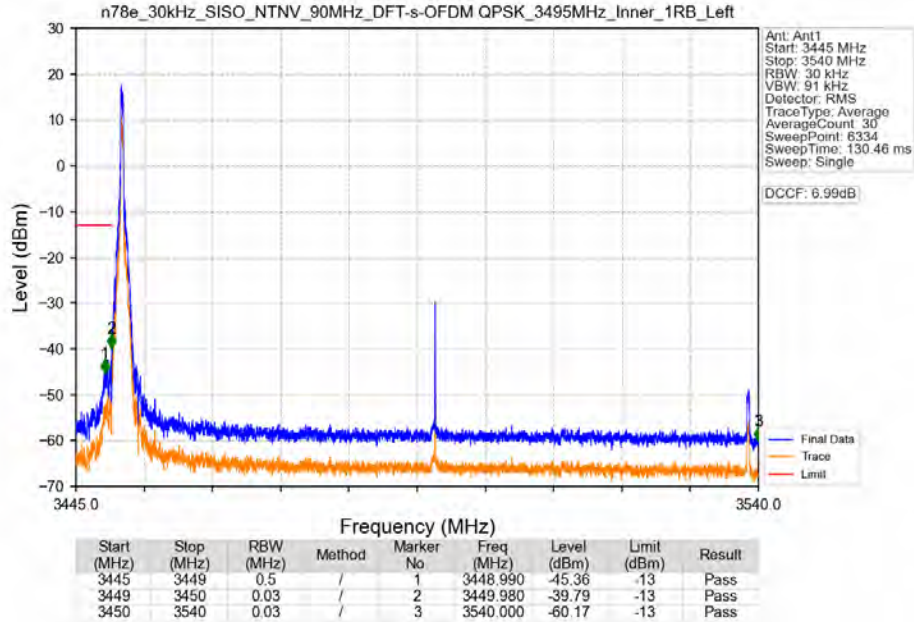
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Report No.: SZCR240100038409

Rev.: 01

Page: 986 of 1458

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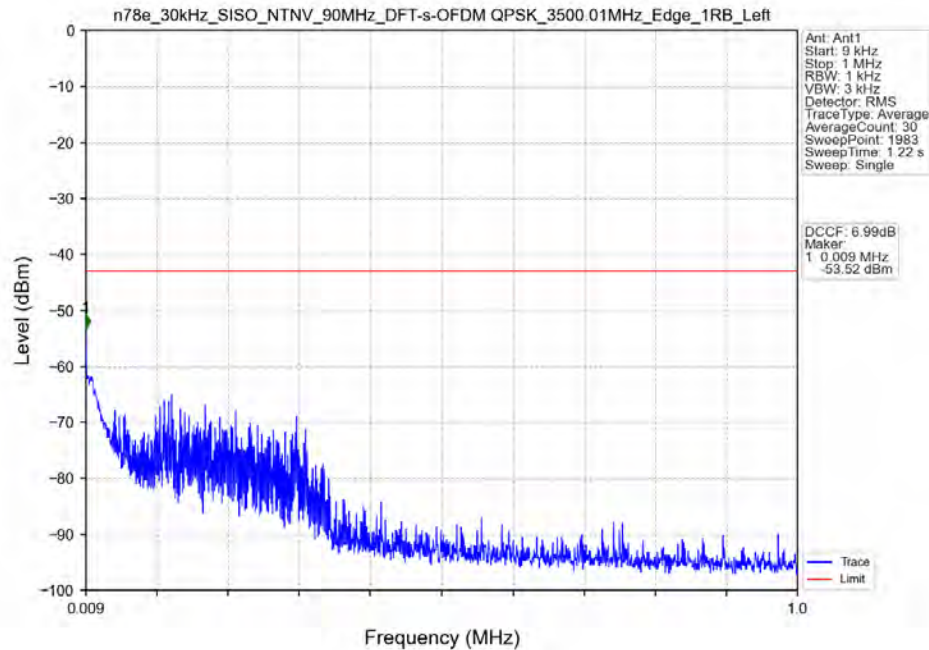


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Rev.: 01

Page: 987 of 1458



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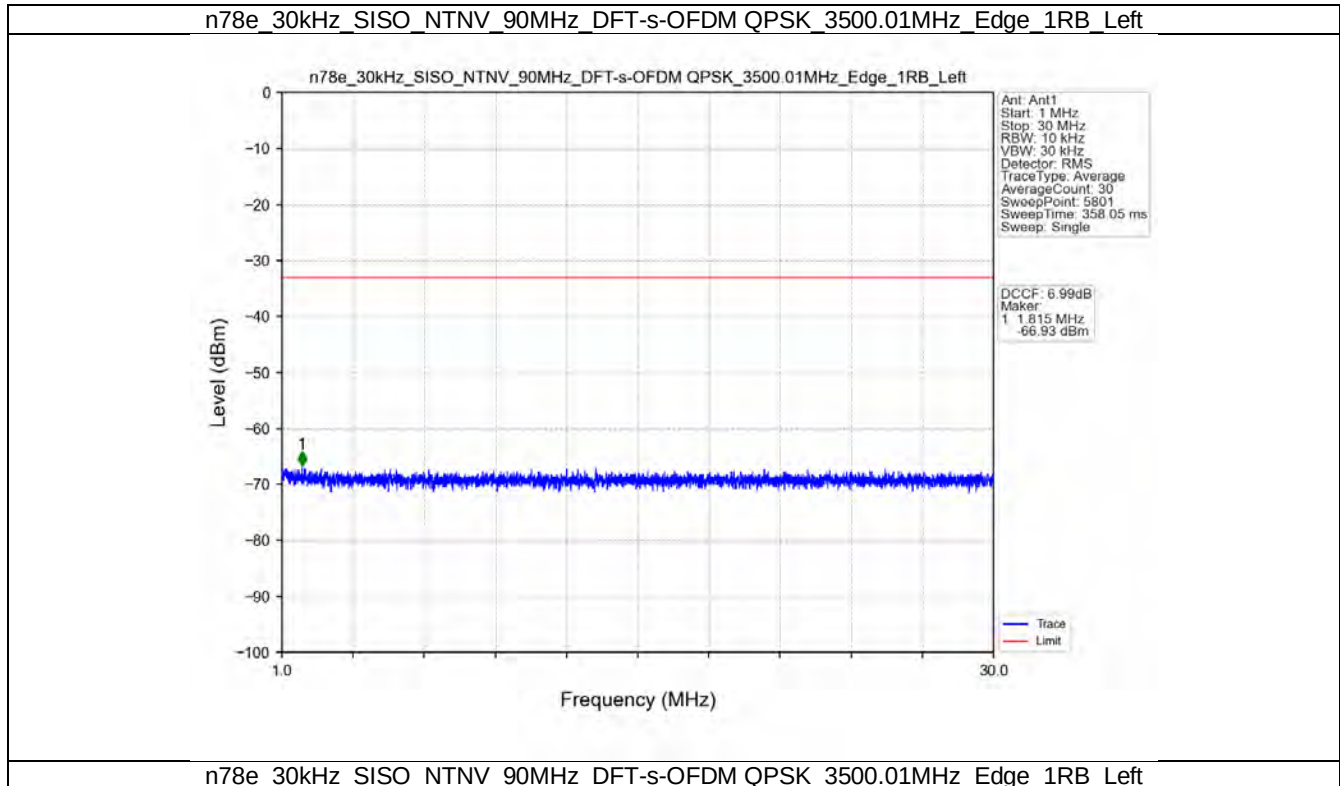


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Report No.: SZCR240100038409

Rev.: 01

Page: 988 of 1458



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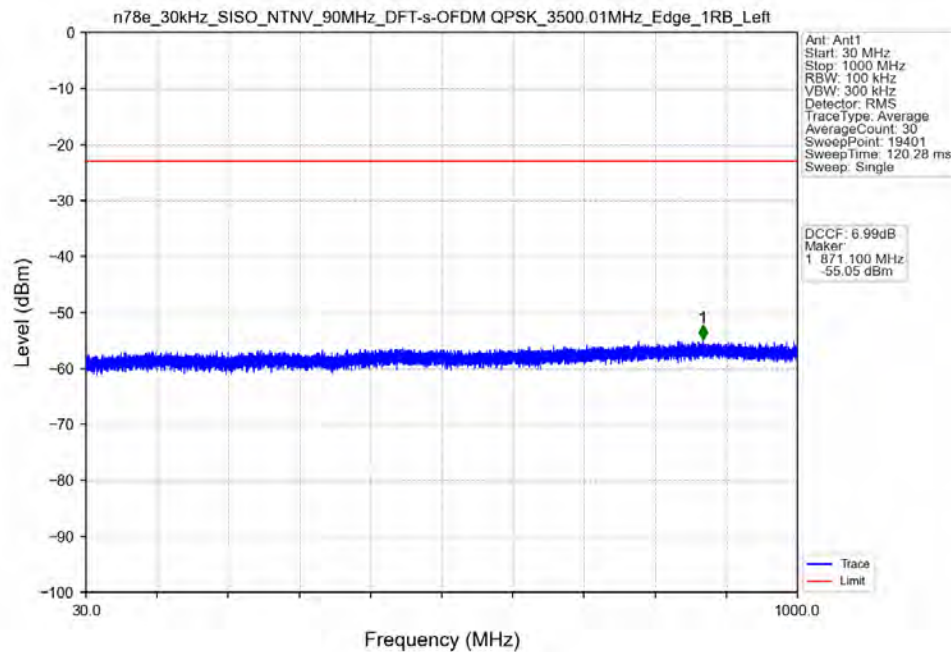


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 989 of 1458



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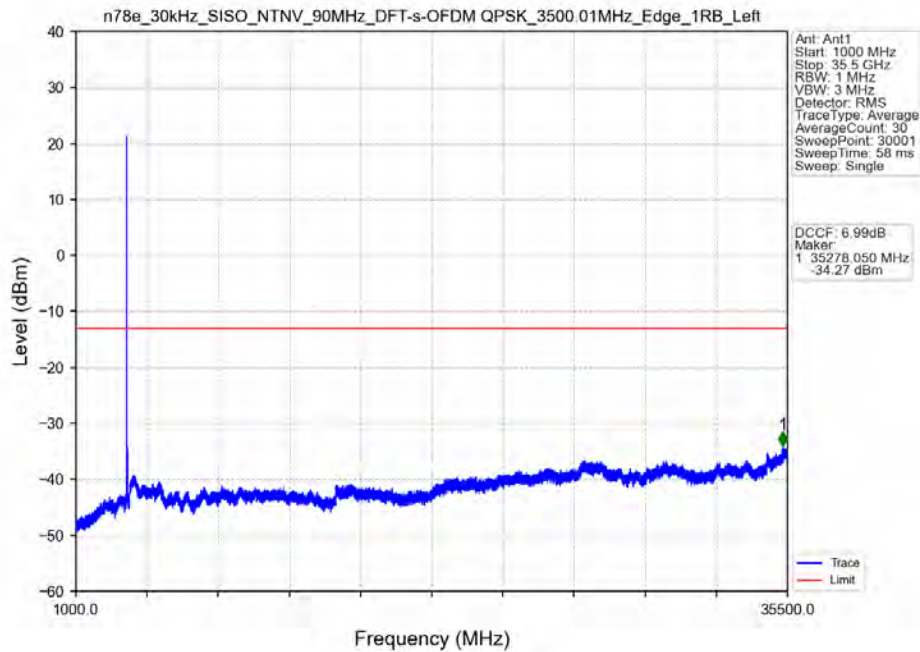
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 990 of 1458

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3500.01MHz_Edge_1RB_Left



n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3504.99MHz_Edge_1RB_Right



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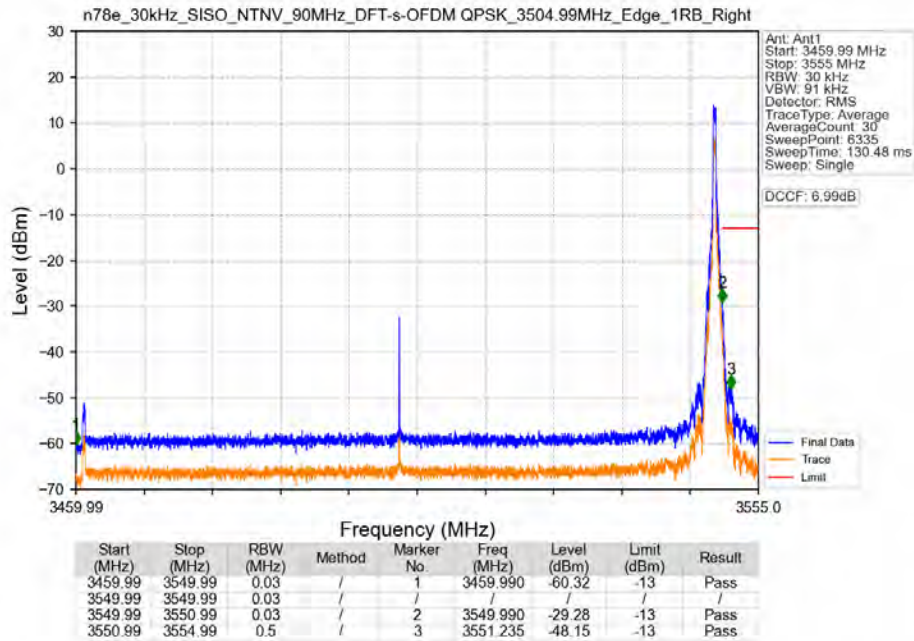


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 991 of 1458



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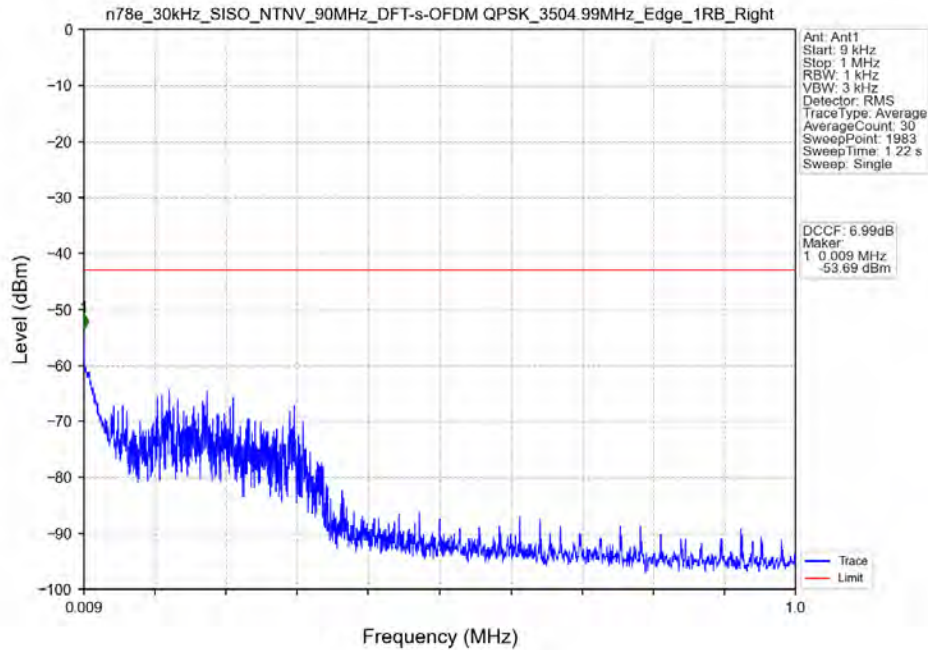
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 992 of 1458

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_QPSK_3504.99MHz_Edge_1RB_Right



n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_QPSK_3504.99MHz_Edge_1RB_Right



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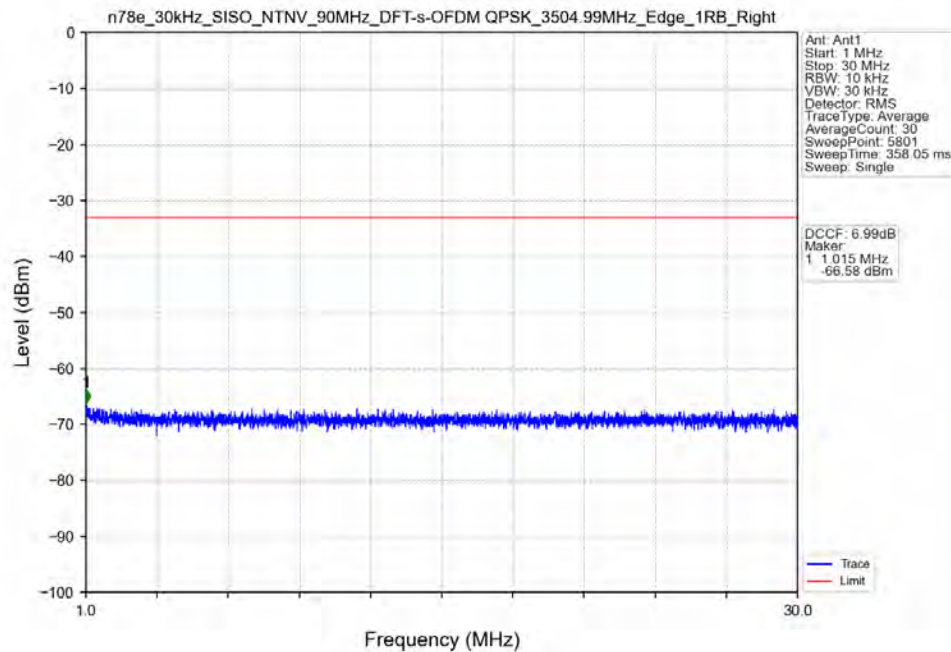


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Report No.: SZCR240100038409

Rev.: 01

Page: 993 of 1458



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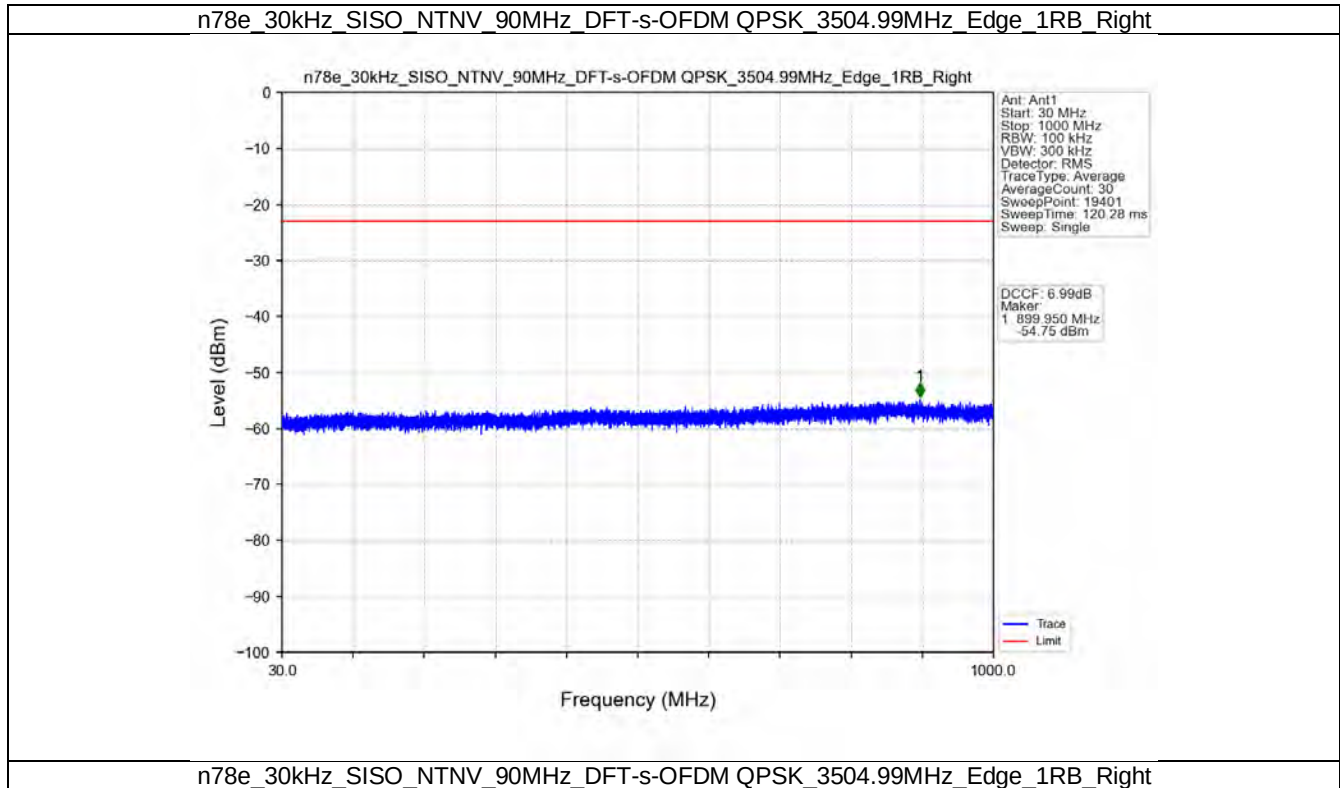


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Report No.: SZCR240100038409

Rev.: 01

Page: 994 of 1458



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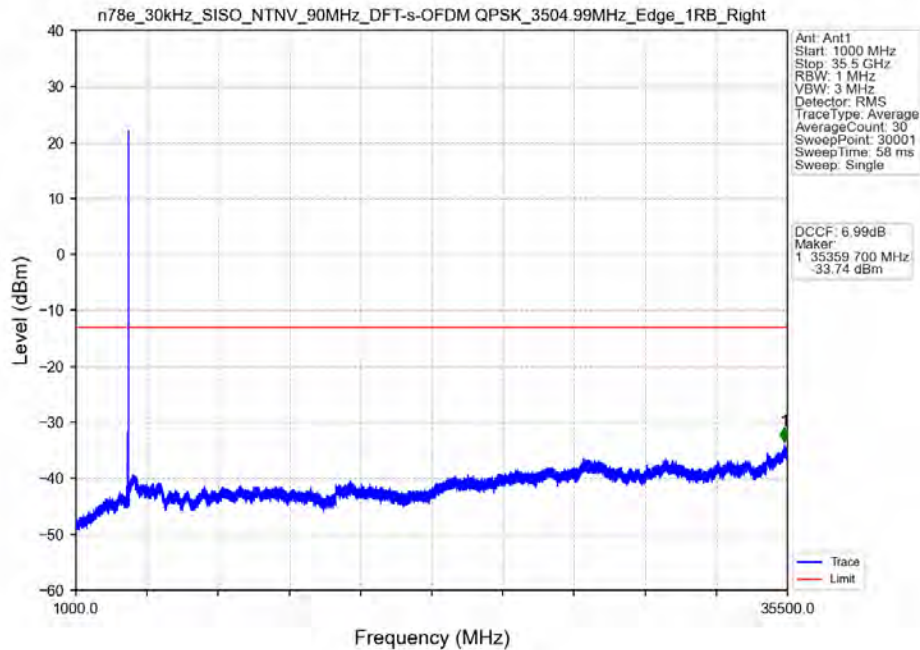


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Report No.: SZCR240100038409

Rev.: 01

Page: 995 of 1458



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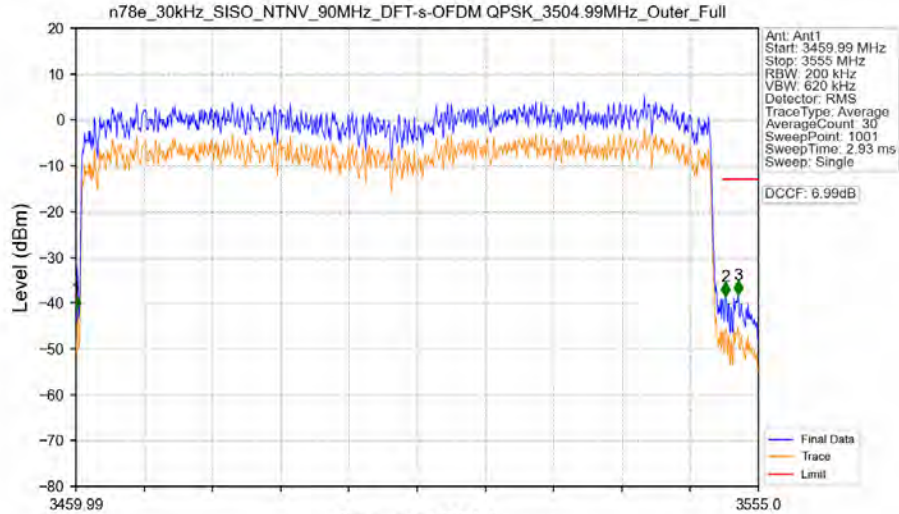
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Report No.: SZCR240100038409

Rev.: 01

Page: 996 of 1458

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_QPSK_3504.99MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3459.99	3549.99	0.2	/	1	3459.990	-41.31	-13	Pass
3549.99	3549.99	0.2	/	/	/	/	/	/
3549.99	3550.99	0.2	/	2	3550.440	-38.50	-13	Pass
3550.99	3554.99	0.5	/	3	3552.150	-38.15	-13	Pass

n78e_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_QPSK_3504.99MHz_Inner_1RB_Right



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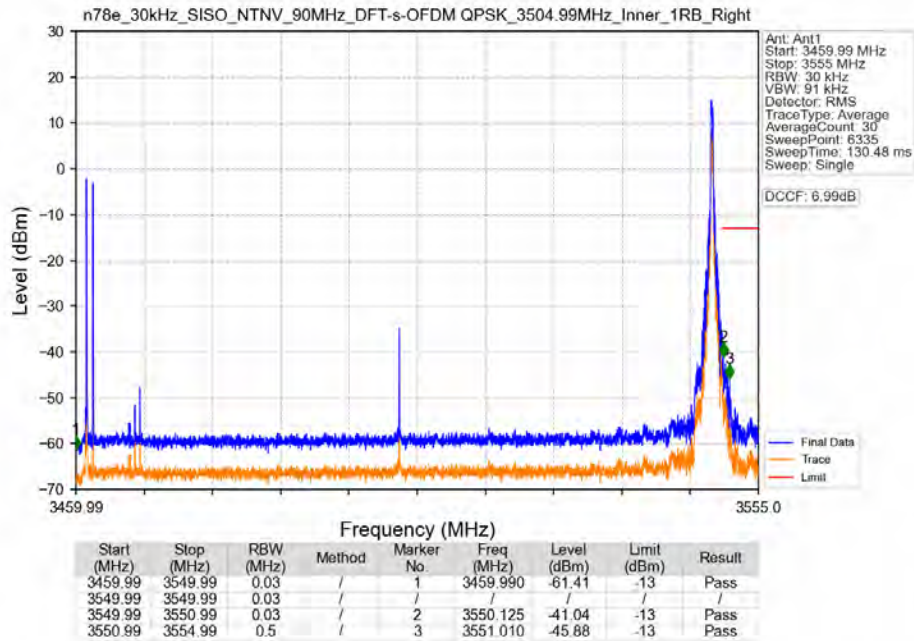


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Report No.: SZCR240100038409

Rev.: 01

Page: 997 of 1458



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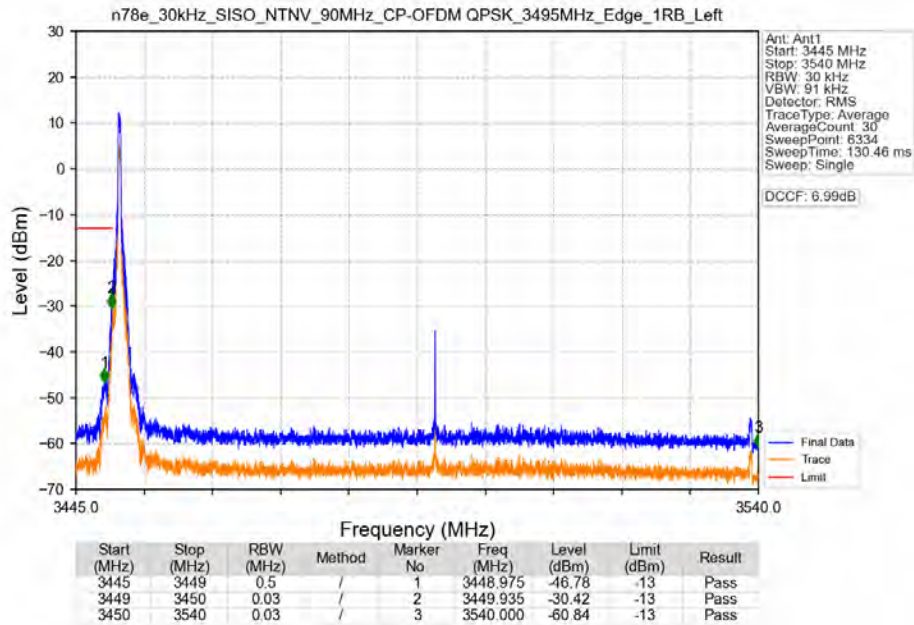
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Report No.: SZCR240100038409

Rev.: 01

Page: 998 of 1458

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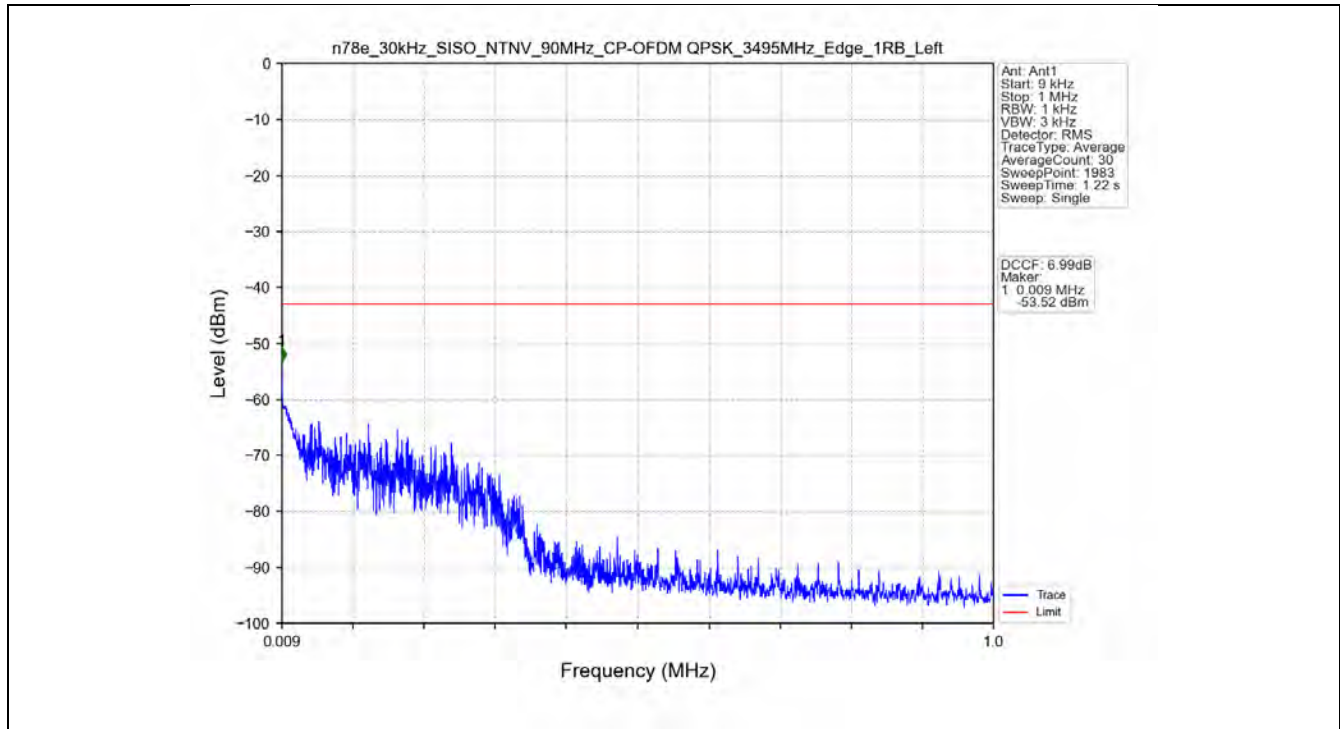


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Report No.: SZCR240100038409

Rev.: 01

Page: 999 of 1458



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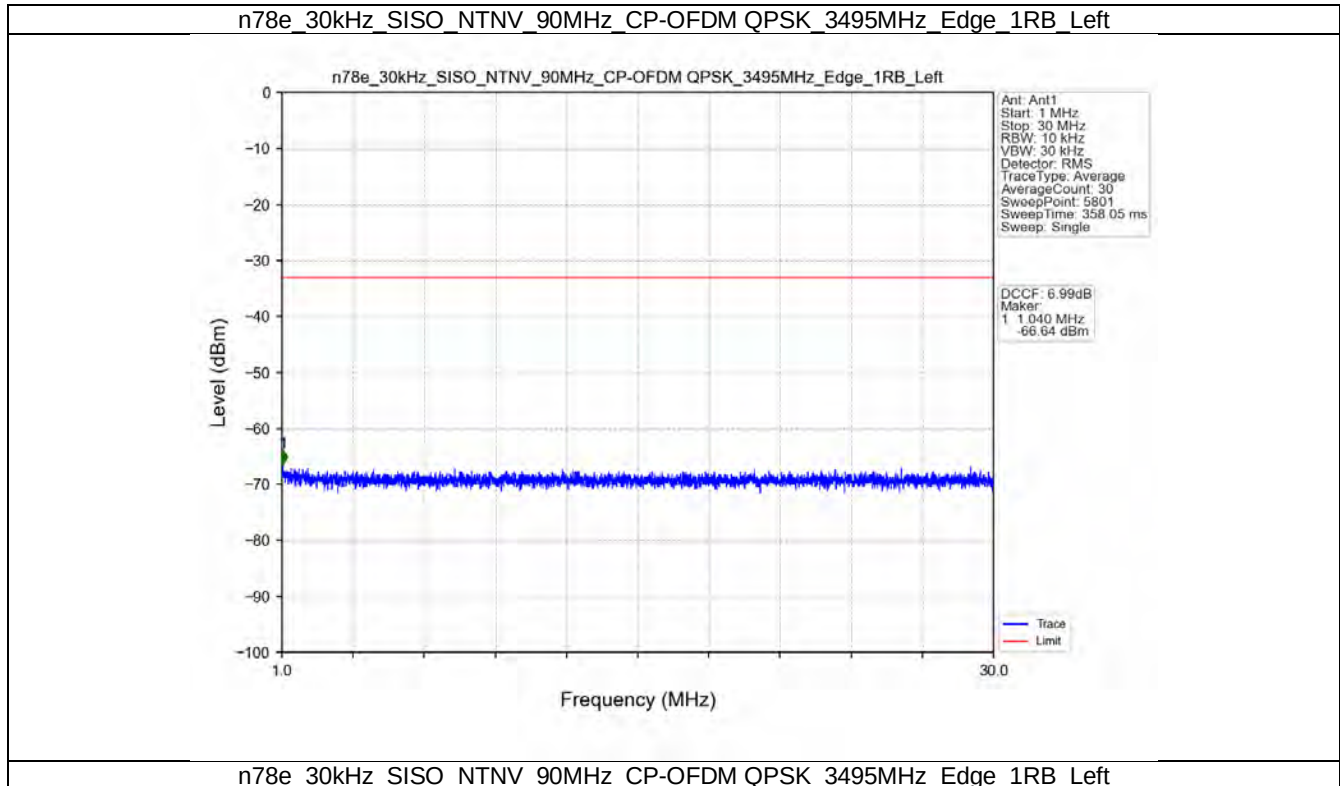


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Report No.: SZCR240100038409

Rev.: 01

Page: 1000 of 1458



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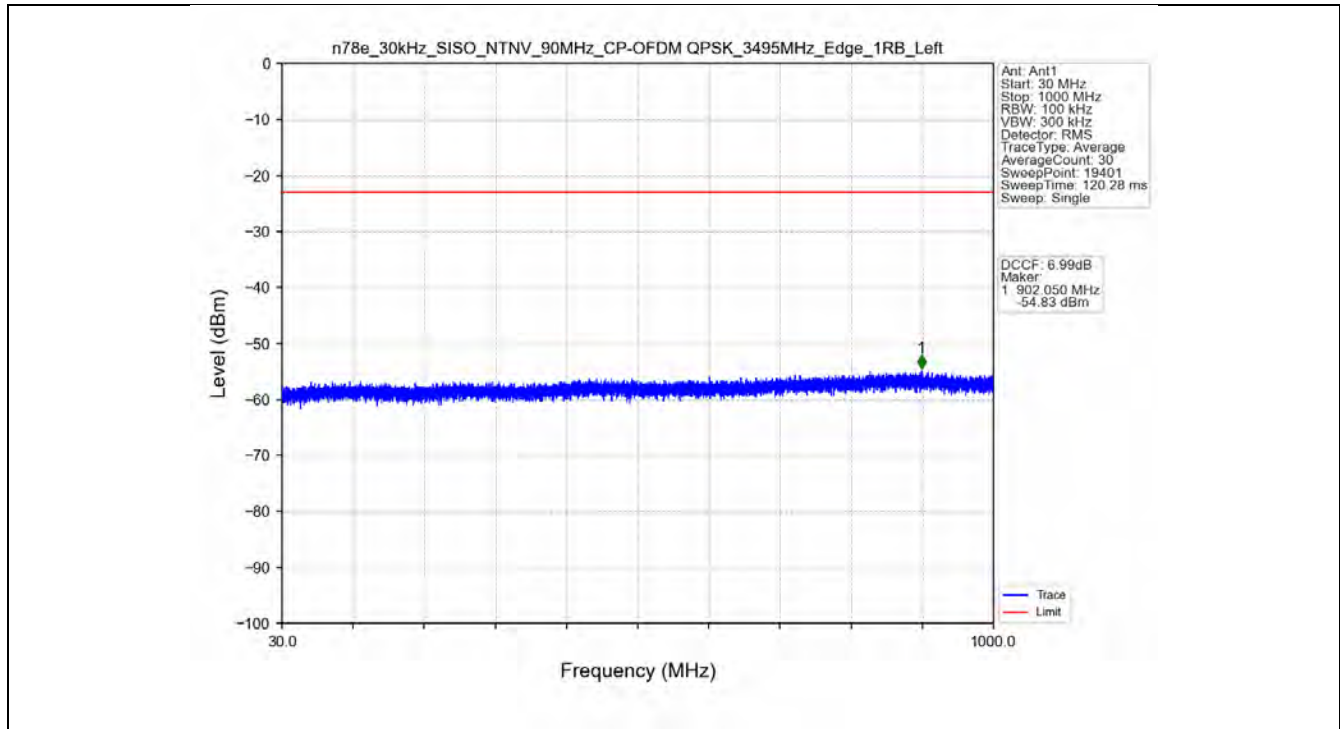


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Report No.: SZCR240100038409

Rev.: 01

Page: 1001 of 1458



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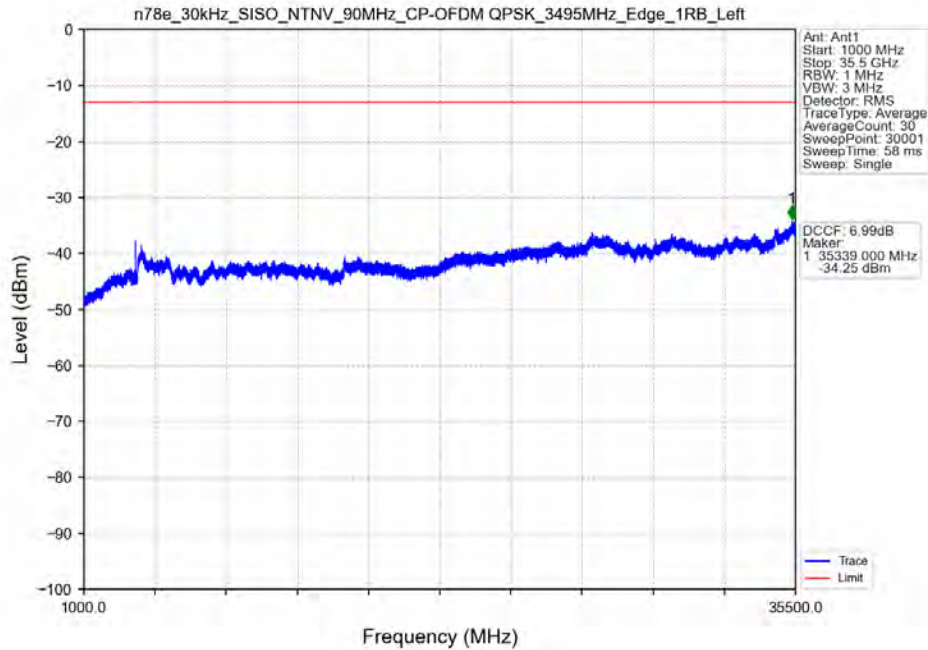
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Report No.: SZCR240100038409

Rev.: 01

Page: 1002 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3495MHz_Outer_Full



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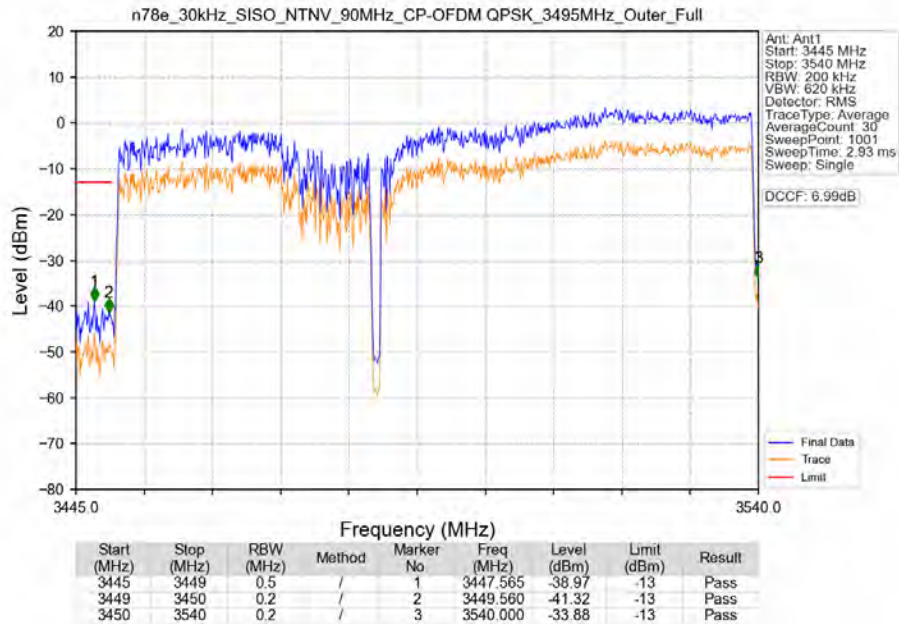


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Report No.: SZCR240100038409

Rev.: 01

Page: 1003 of 1458



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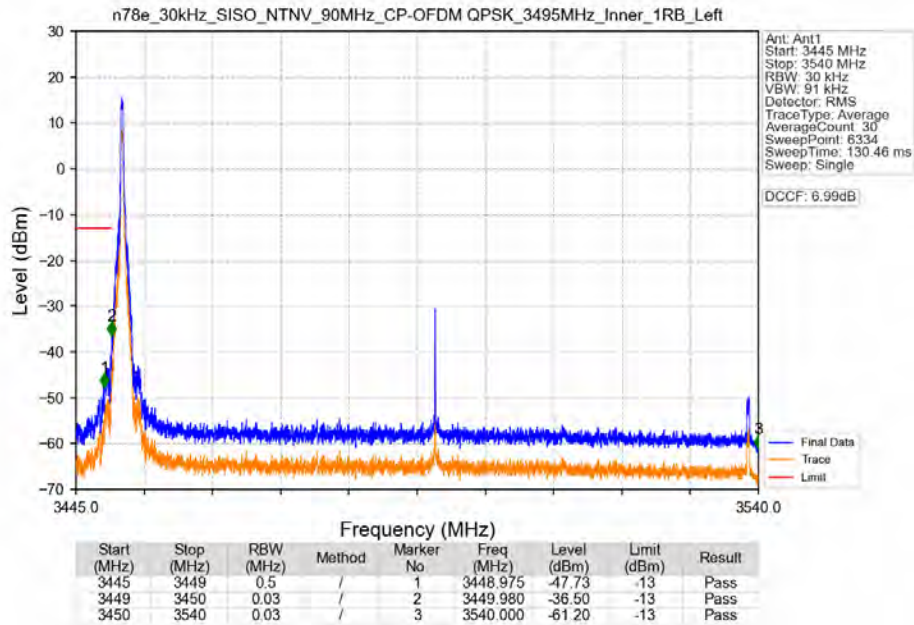
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1004 of 1458

n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3495MHz_Inner_1RB_Left



n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3500.01MHz_Edge_1RB_Left



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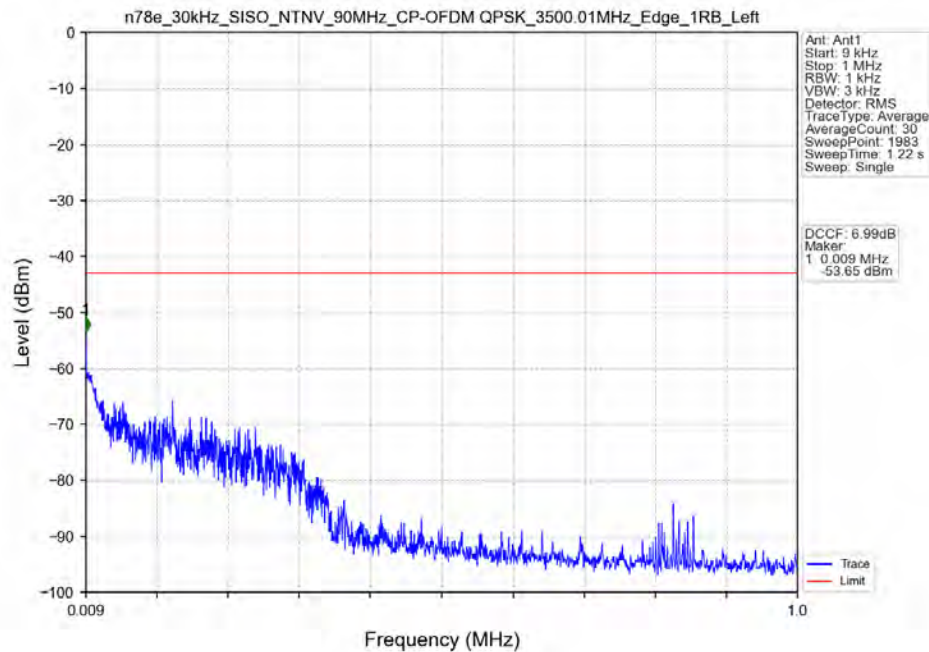


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Report No.: SZCR240100038409

Rev.: 01

Page: 1005 of 1458



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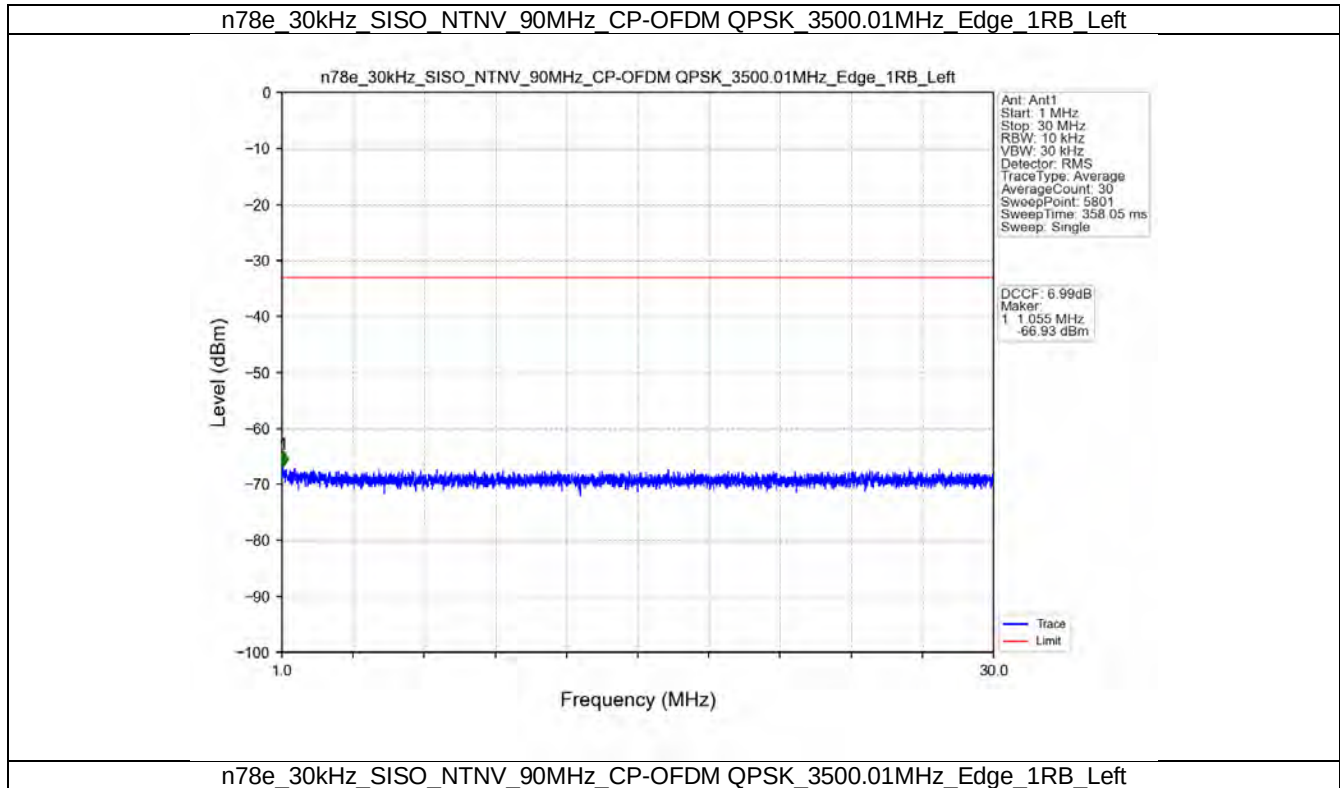


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Report No.: SZCR240100038409

Rev.: 01

Page: 1006 of 1458



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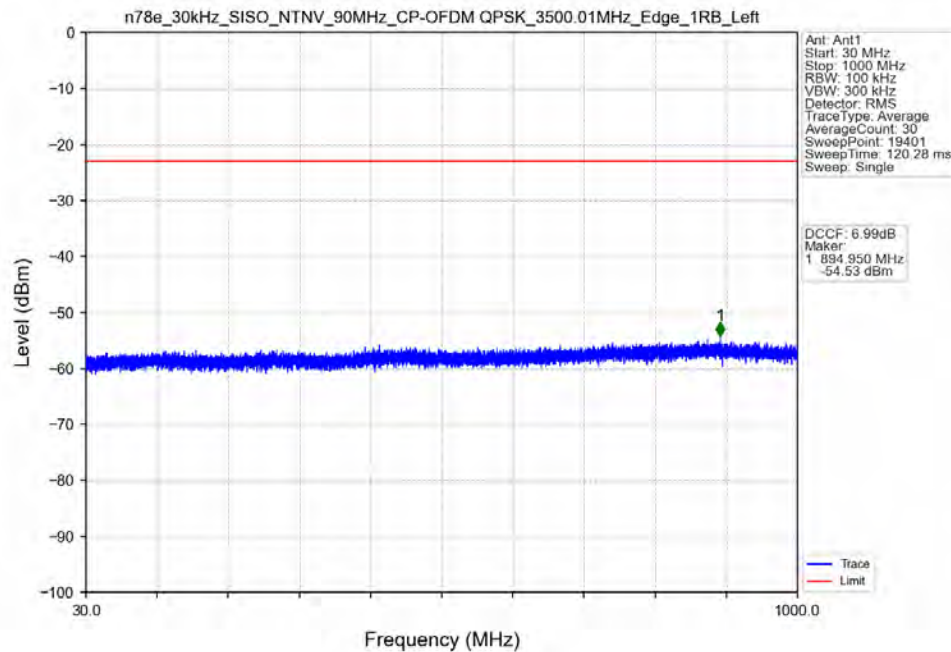


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Report No.: SZCR240100038409

Rev.: 01

Page: 1007 of 1458



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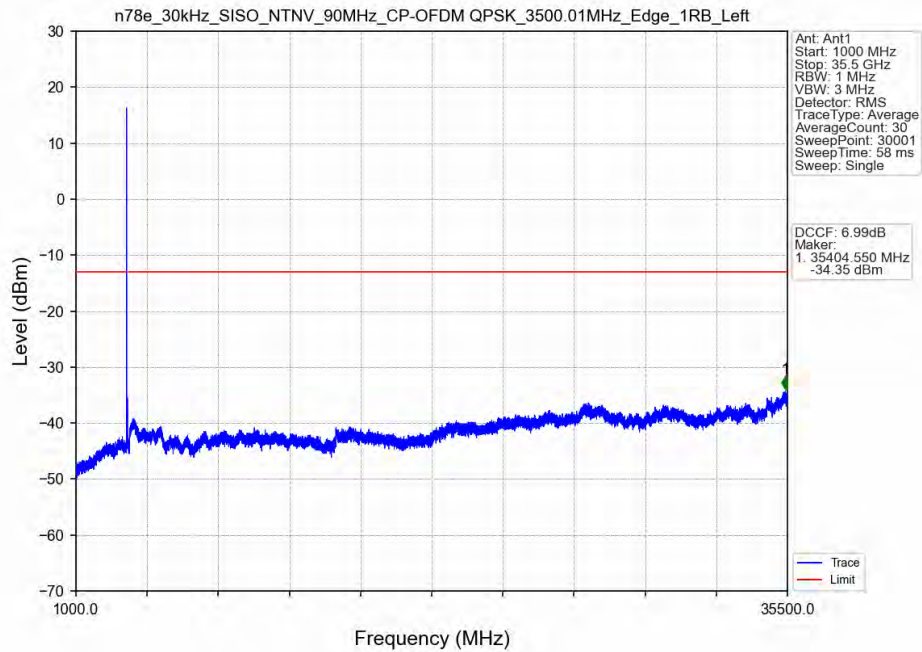
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Report No.: SZCR240100038409

Rev.: 01

Page: 1008 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3504.99MHz_Edge_1RB_Right



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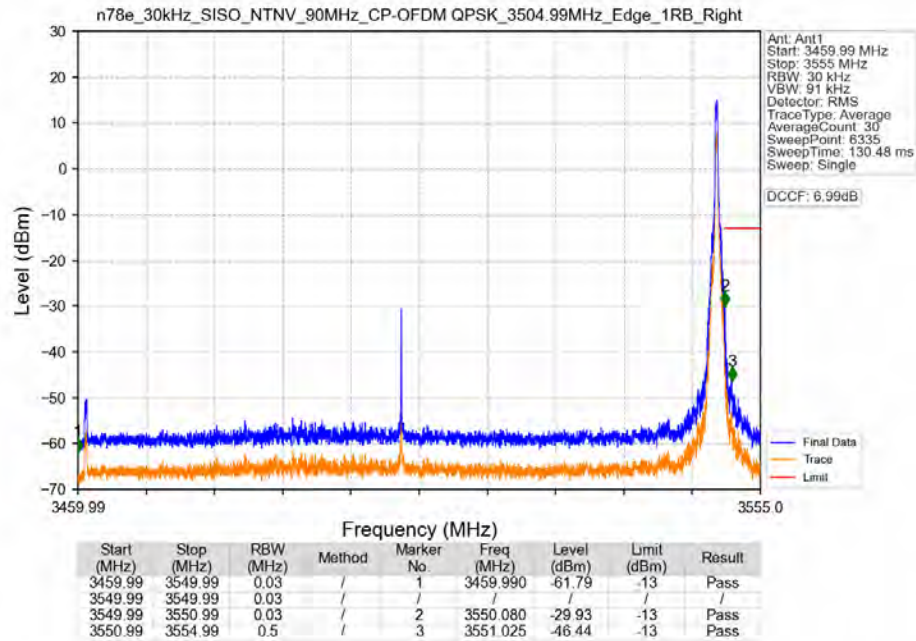


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Report No.: SZCR240100038409

Rev.: 01

Page: 1009 of 1458



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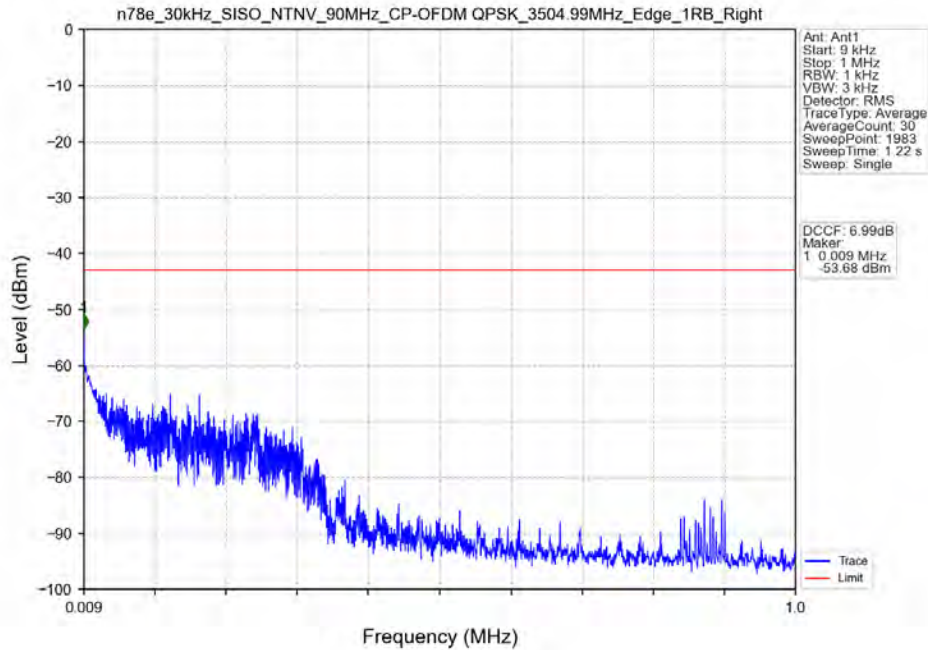
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Report No.: SZCR240100038409

Rev.: 01

Page: 1010 of 1458

n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3504.99MHz_Edge_1RB_Right



n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3504.99MHz_Edge_1RB_Right



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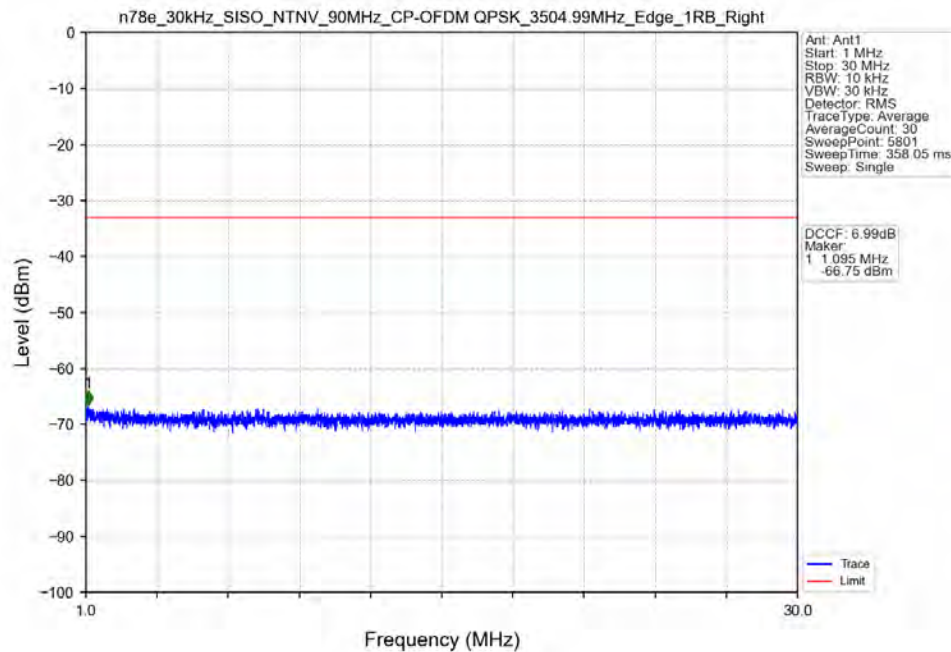


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Rev.: 01

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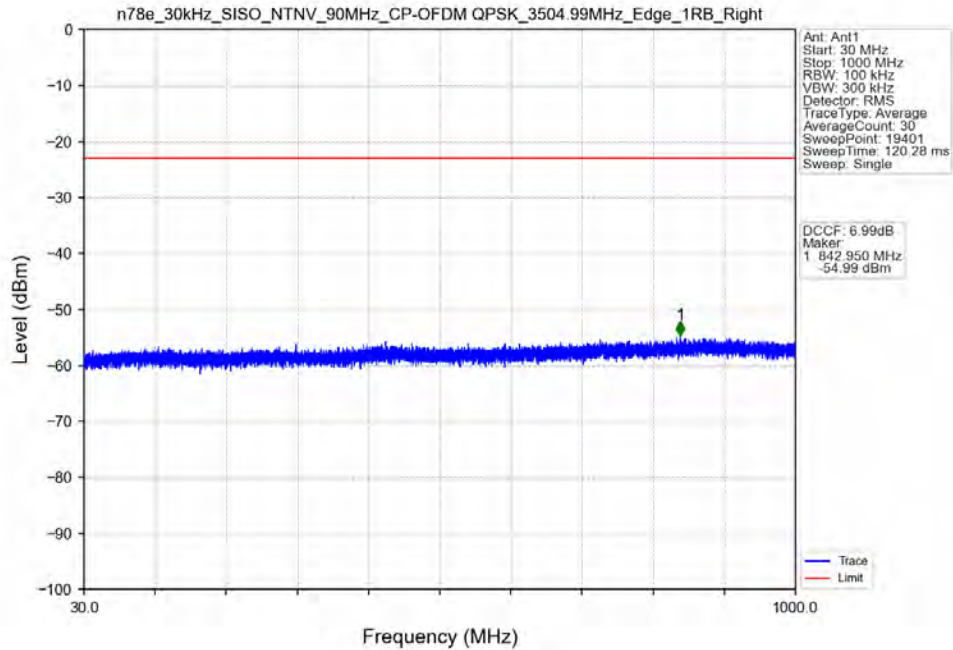
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Report No.: SZCR240100038409

Rev.: 01

Page: 1012 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3504.99MHz_Edge_1RB_Right



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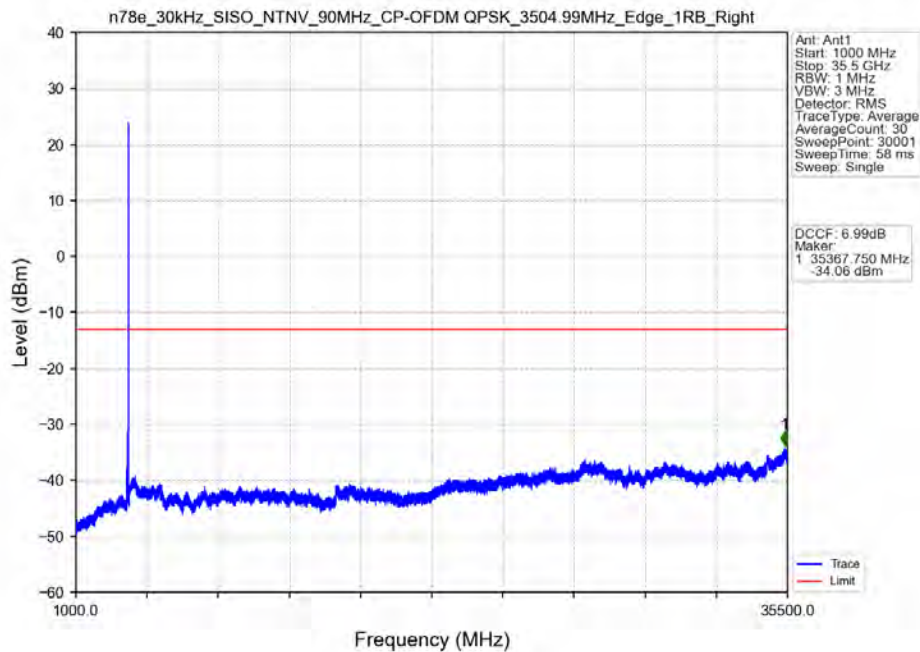


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Rev.: 01

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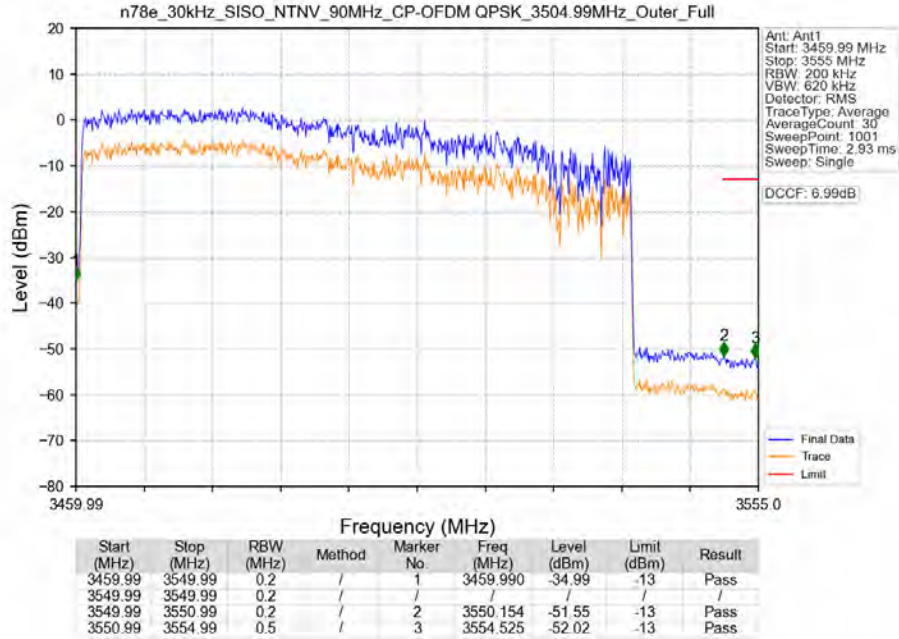
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Report No.: SZCR240100038409

Rev.: 01

Page: 1014 of 1458

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n78e_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_3504.99MHz_Inner_1RB_Right



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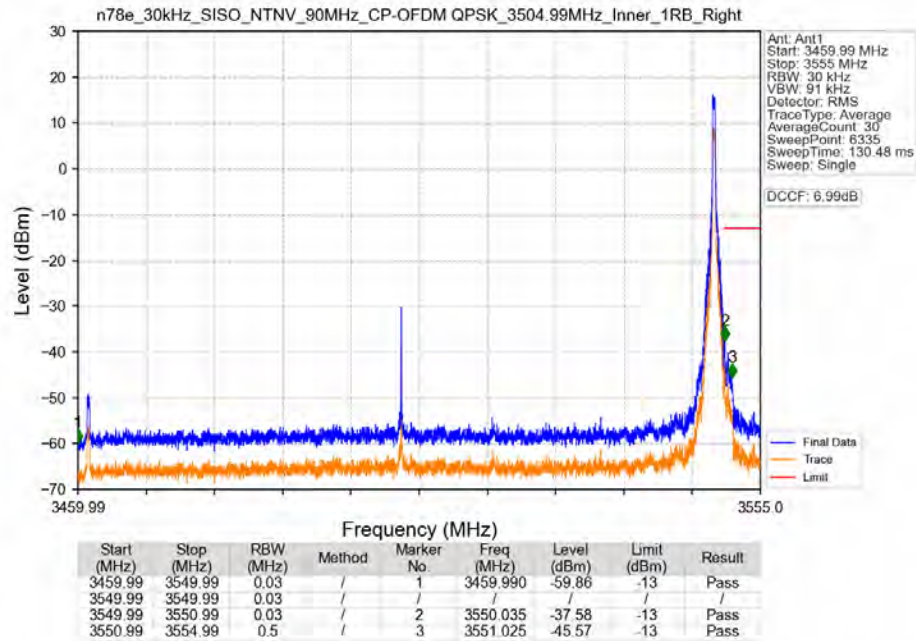


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Report No.: SZCR240100038409

Rev.: 01

Page: 1016 of 1458

5.9 30k_SISO_100MHz_NTNV

5.9.1 Test Result

5G NR n78e SCS=30kHz SISO 100MHz NTNv								
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict	
			Ant1	Ant4	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
DFT-s-OFDM QPSK	3500.01		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	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
CP-OFDM QPSK	3500.01		Inner_1RB_Right	Refer To Test Graph				Pass
		Edge_1RB_Left	Refer To Test Graph				Pass	
		Outer_Full	Refer To Test Graph				Pass	
	3500.01	Inner_1RB_Left	Refer To Test Graph				Pass	
		3499.98	Edge_1RB_Left	Refer To Test Graph				Pass
			Edge_1RB_Right	Refer To Test Graph				Pass
3499.98	Outer_Full		Refer To Test Graph				Pass	
	Inner_1RB_Right	Refer To Test Graph				Pass		



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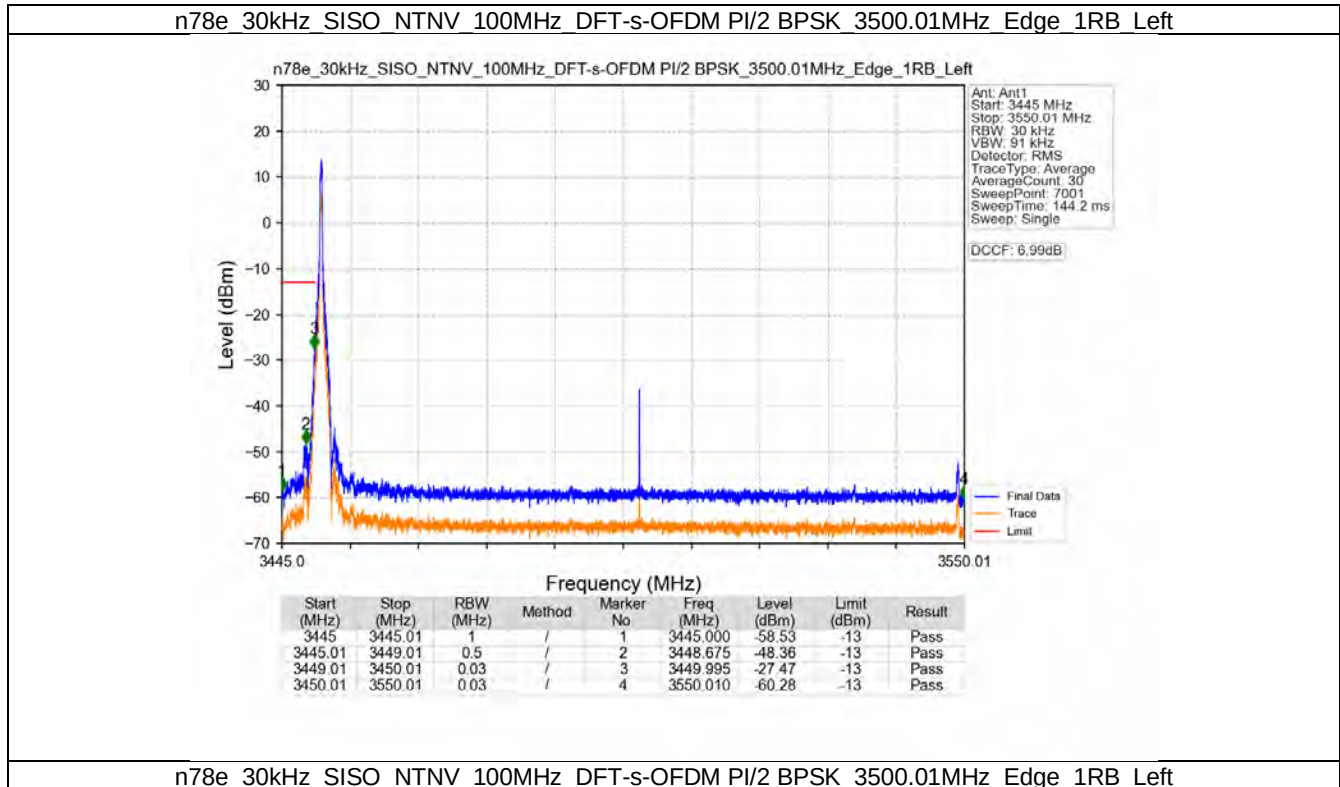
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Report No.: SZCR240100038409

Rev.: 01

Page: 1017 of 1458

5.9.2 Test Graph



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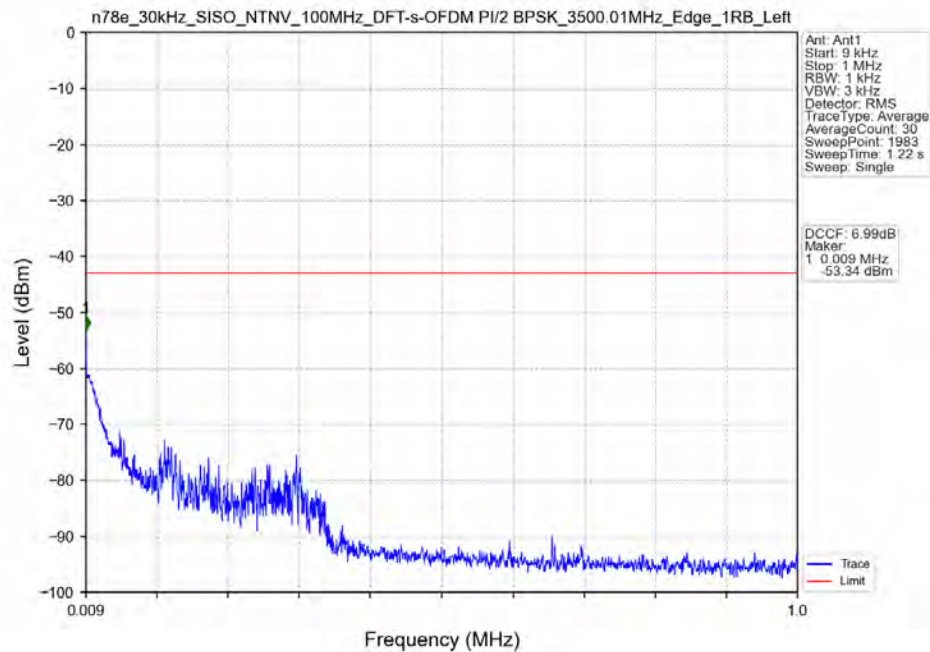


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1018 of 1458



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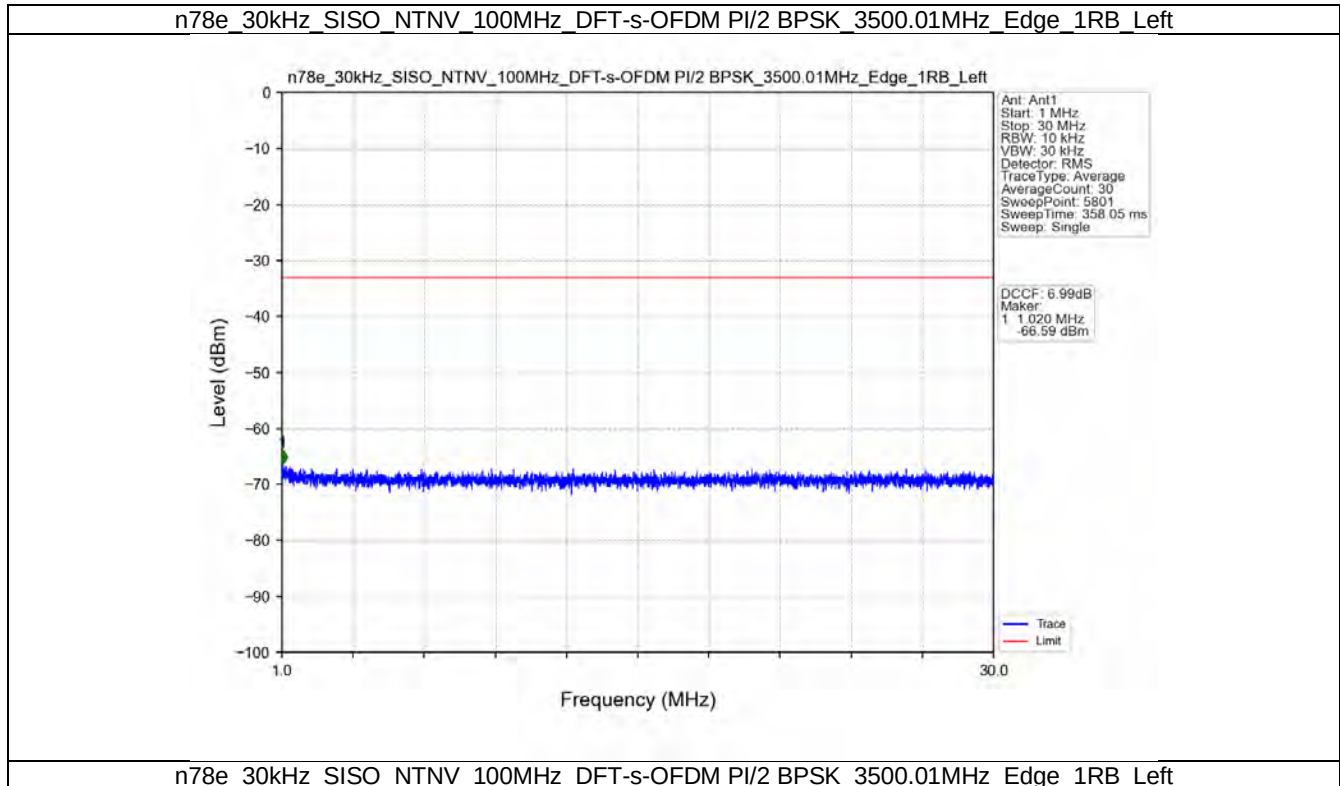


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1019 of 1458



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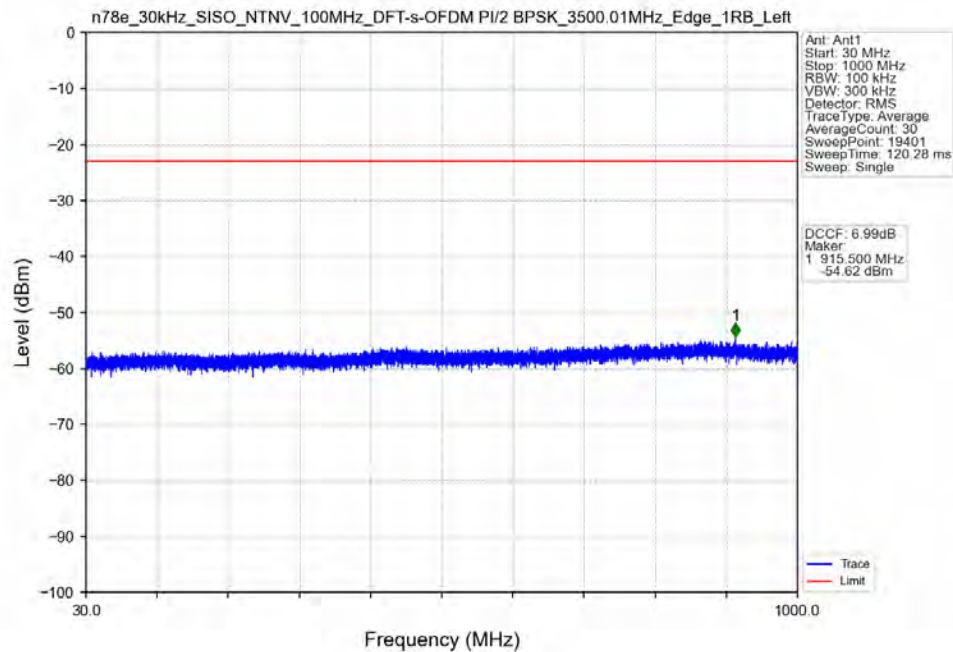


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1020 of 1458



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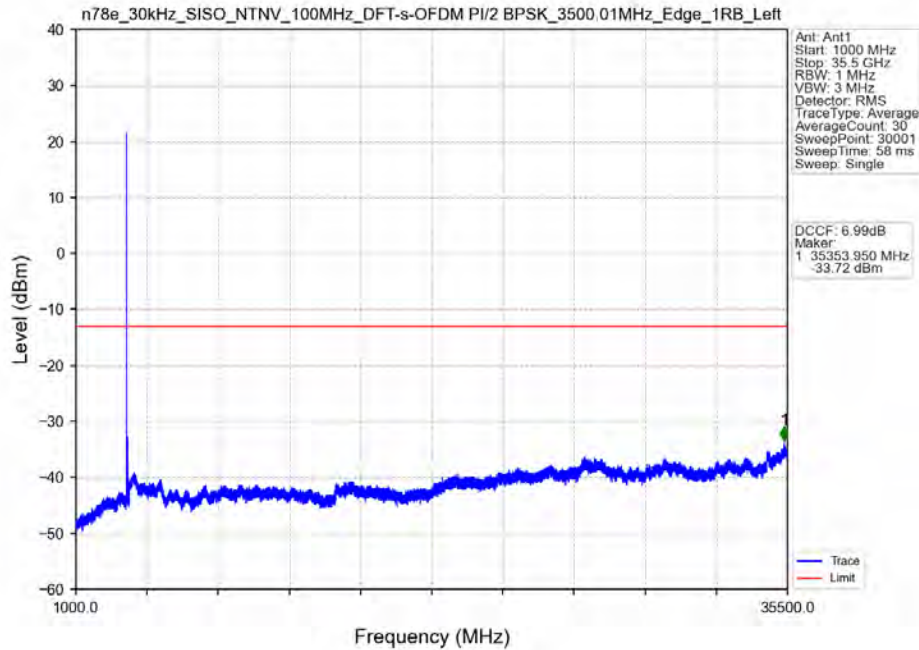
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1021 of 1458

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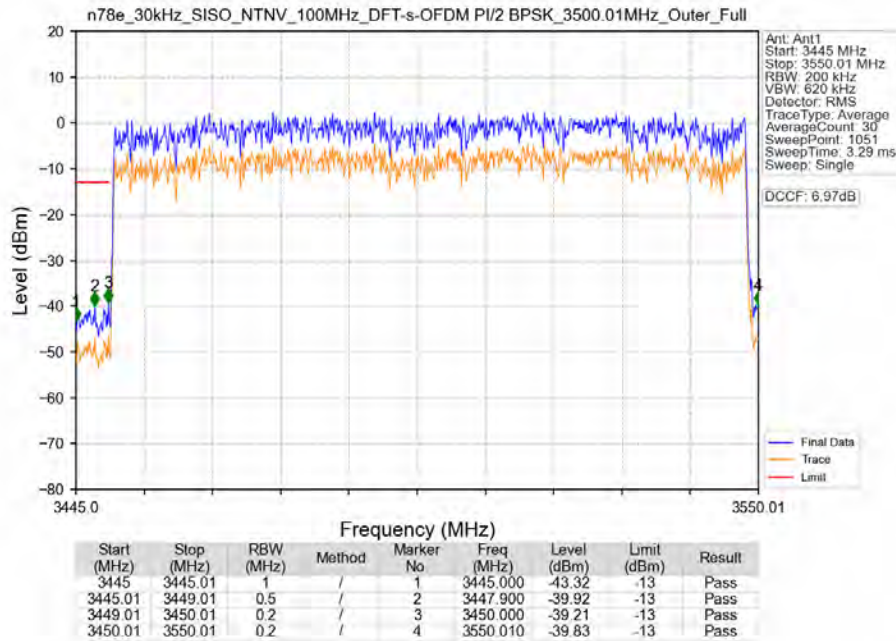


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Report No.: SZCR240100038409

Rev.: 01

Page: 1022 of 1458



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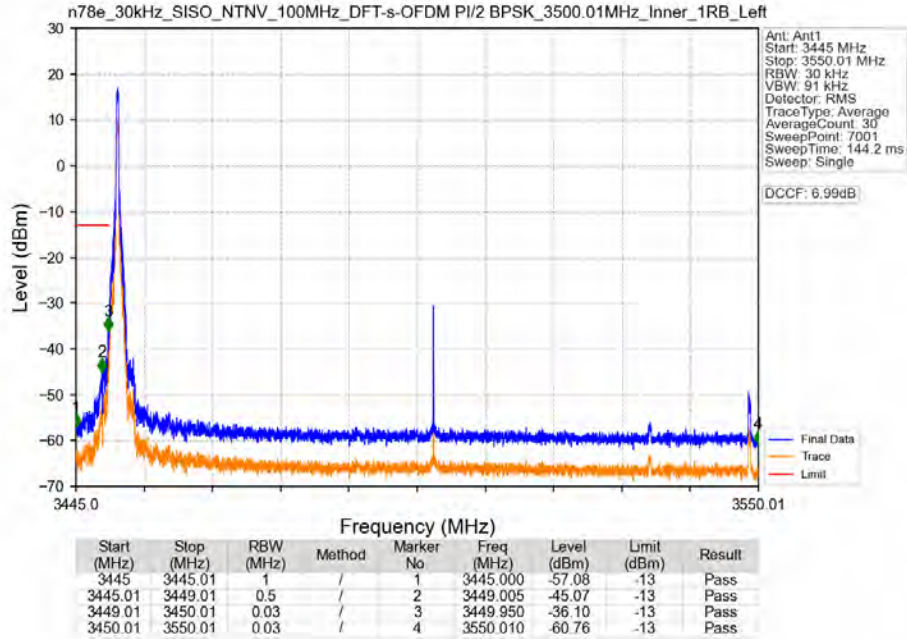
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Report No.: SZCR240100038409

Rev.: 01

Page: 1023 of 1458

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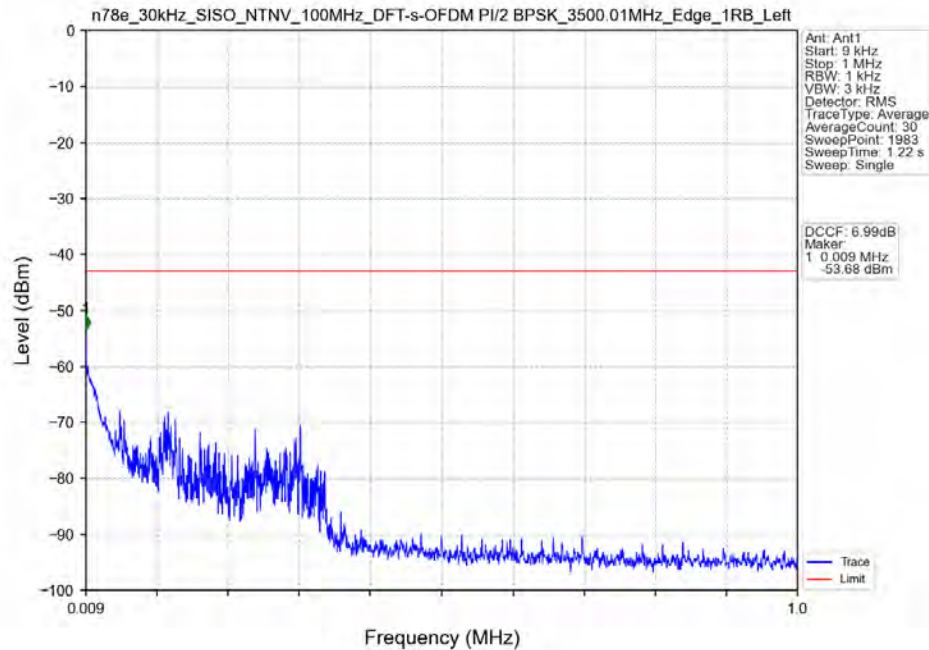


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Rev.: 01

Page: 1024 of 1458



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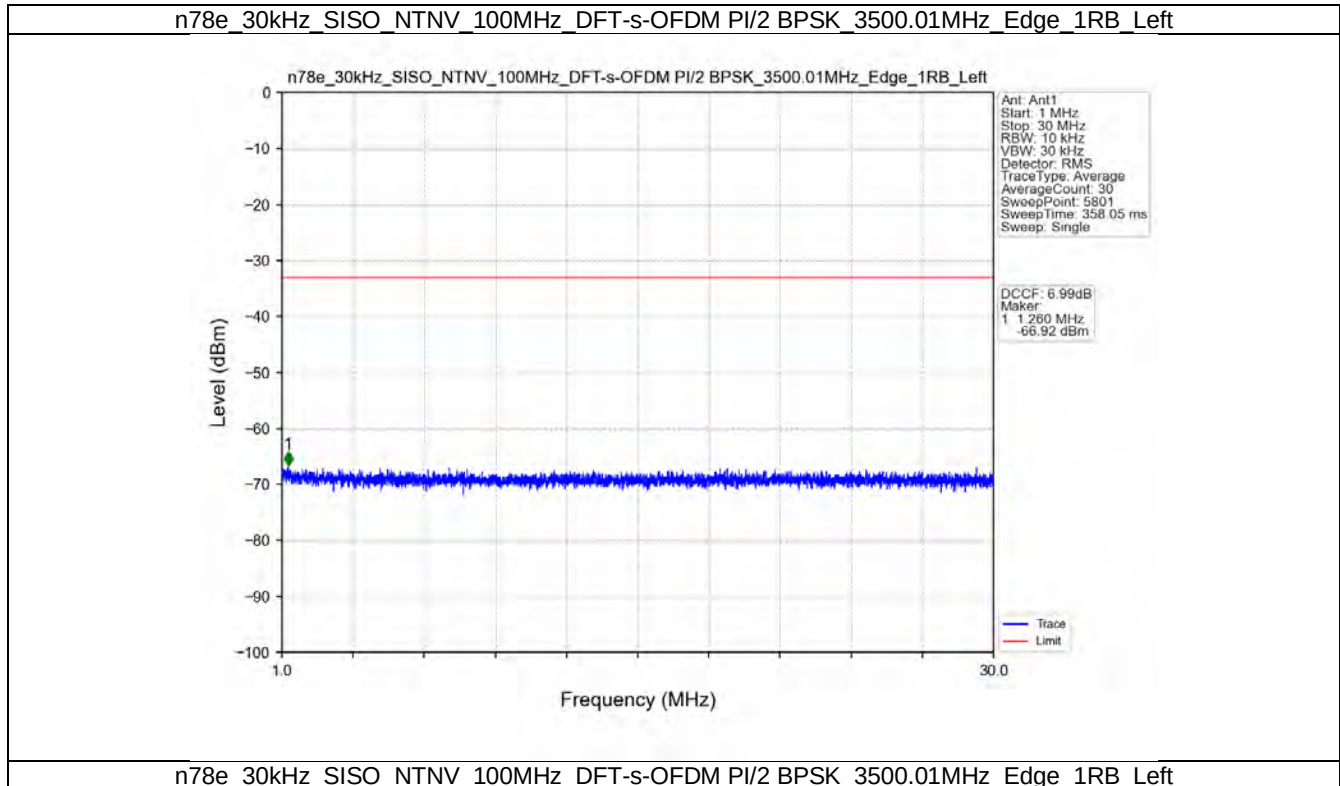


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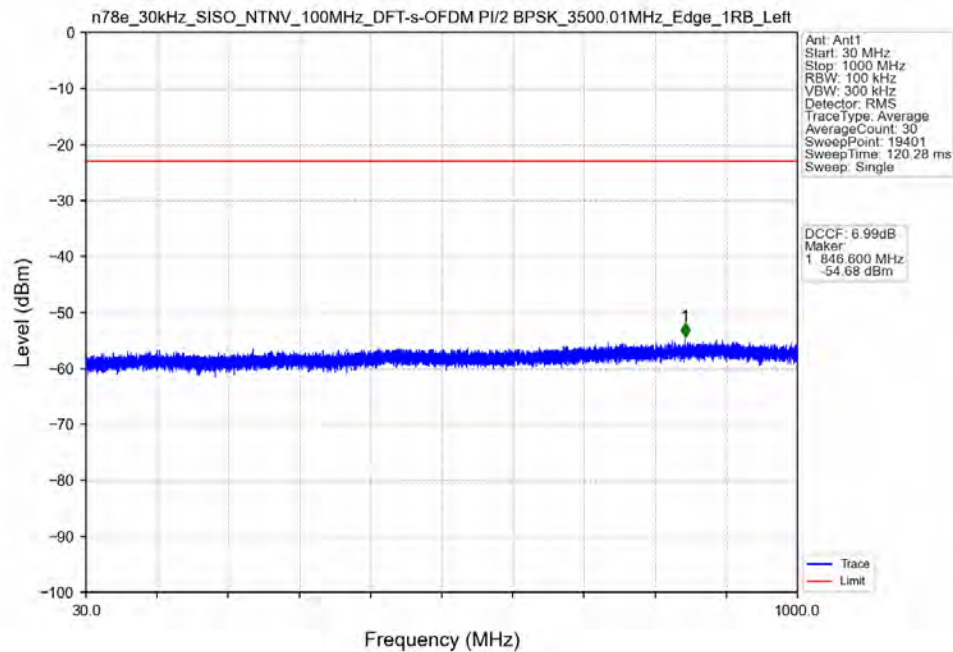


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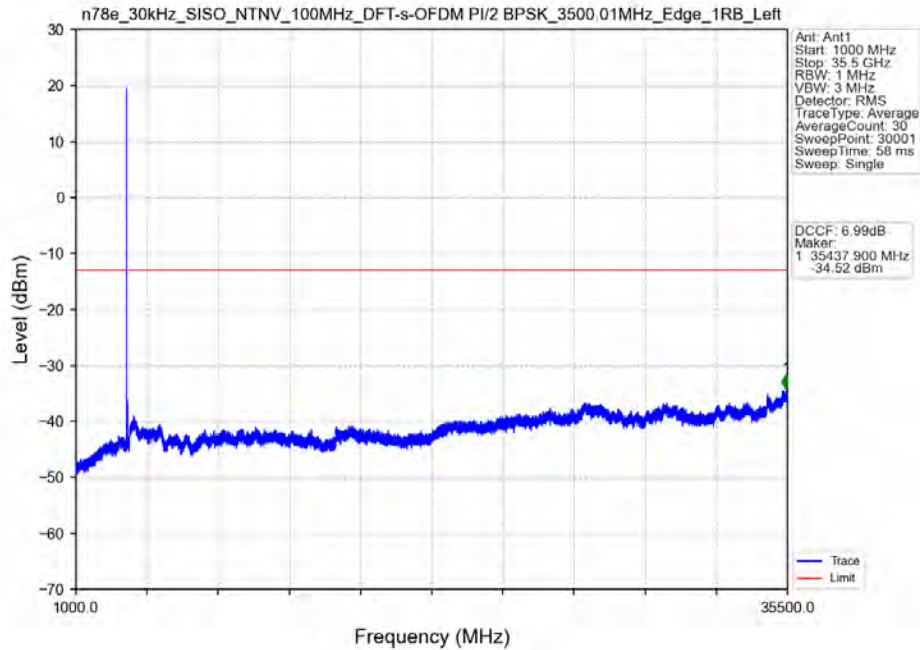
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Report No.: SZCR240100038409

Rev.: 01

Page: 1027 of 1458

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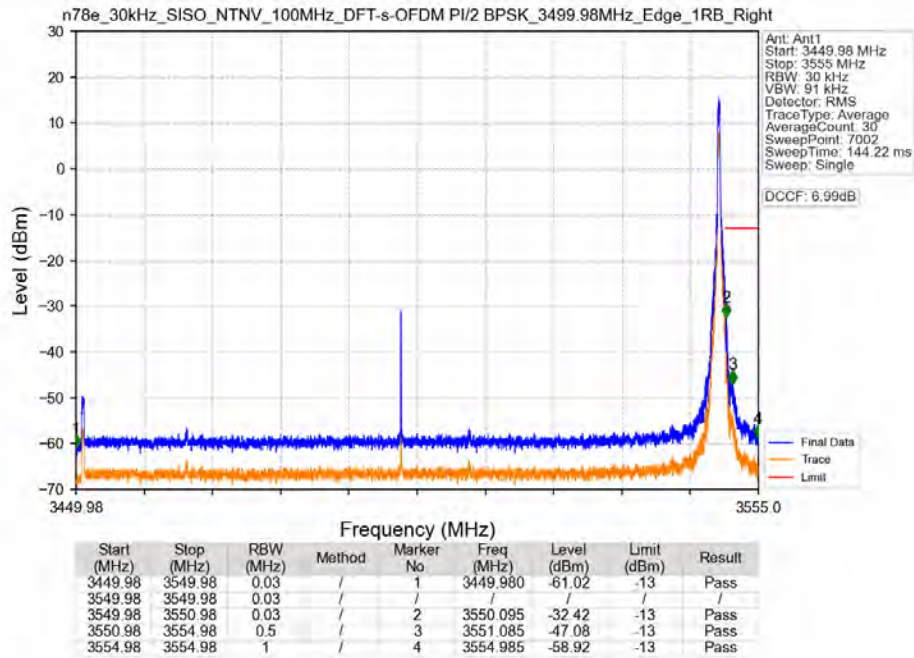


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Report No.: SZCR240100038409

Rev.: 01

Page: 1028 of 1458



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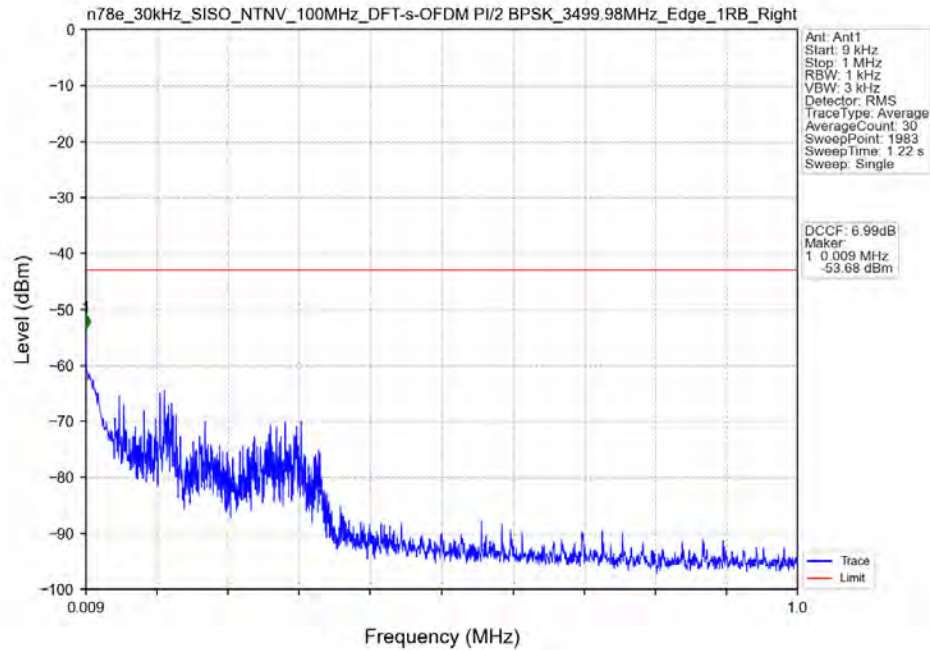
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Report No.: SZCR240100038409

Rev.: 01

Page: 1029 of 1458

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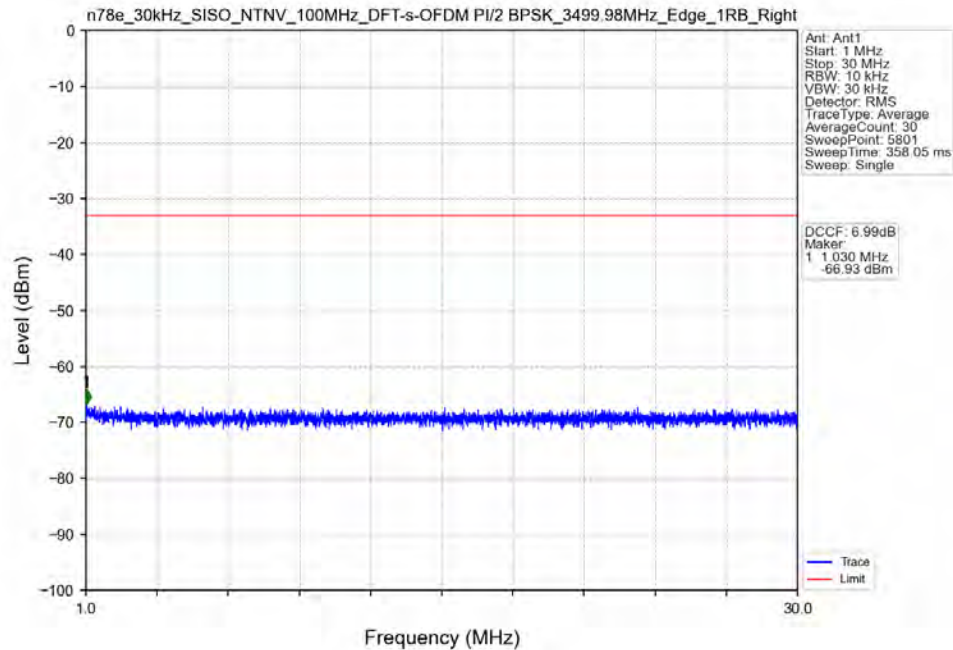


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Report No.: SZCR240100038409

Rev.: 01

Page: 1030 of 1458



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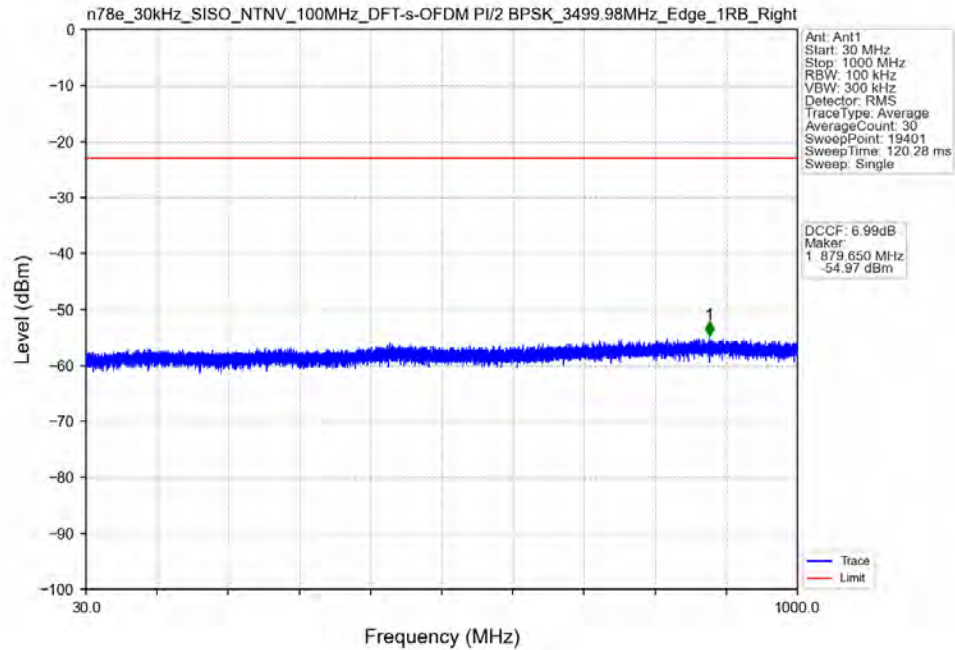
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Report No.: SZCR240100038409

Rev.: 01

Page: 1031 of 1458

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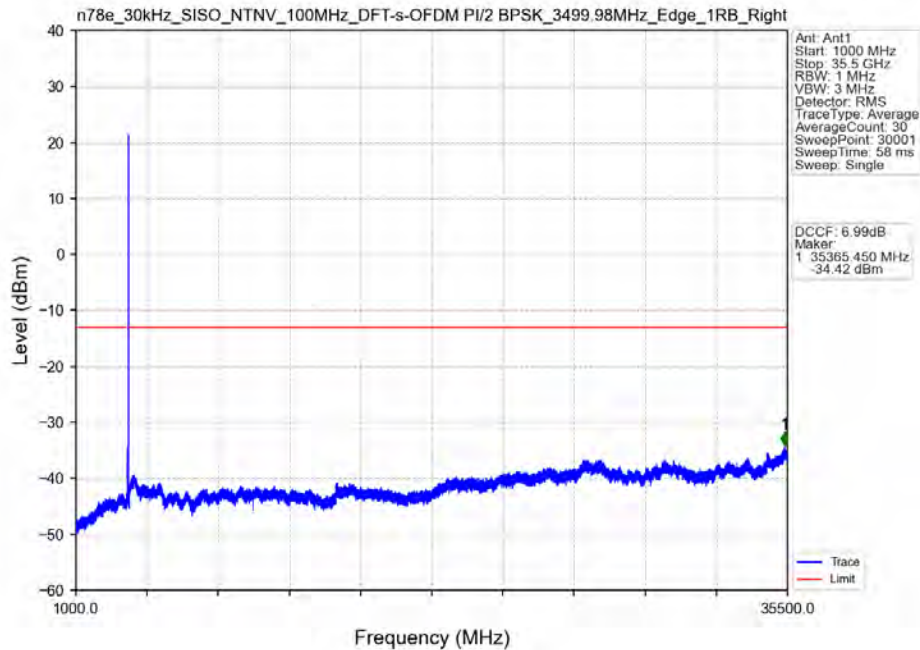


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Report No.: SZCR240100038409

Rev.: 01

Page: 1032 of 1458



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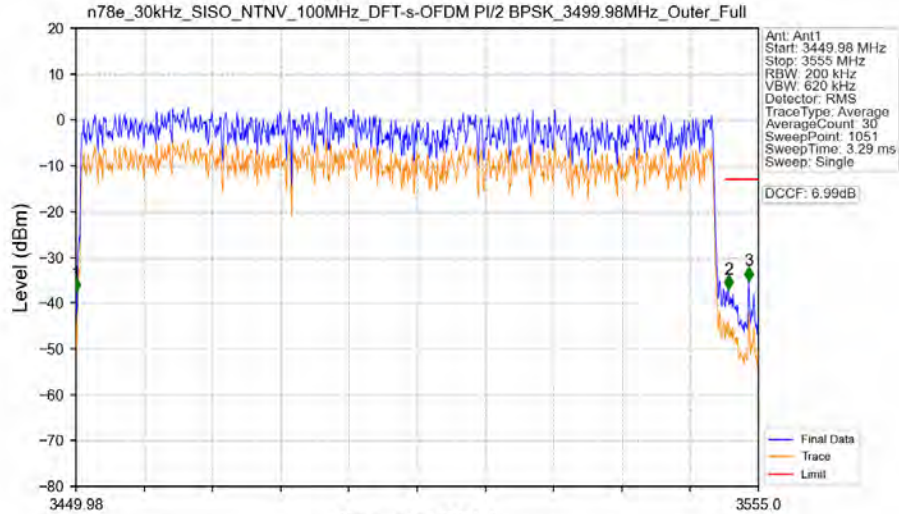
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1033 of 1458

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3449.98	3549.98	0.2	/	1	3449.980	-37.71	-13	Pass
3549.98	3549.98	0.2	/	/	/	/	/	/
3549.98	3550.98	0.2	/	2	3550.399	-36.99	-13	Pass
3550.98	3554.98	0.5	/	3	3553.500	-35.11	-13	Pass

n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3499.98MHz_Inner_1RB_Right



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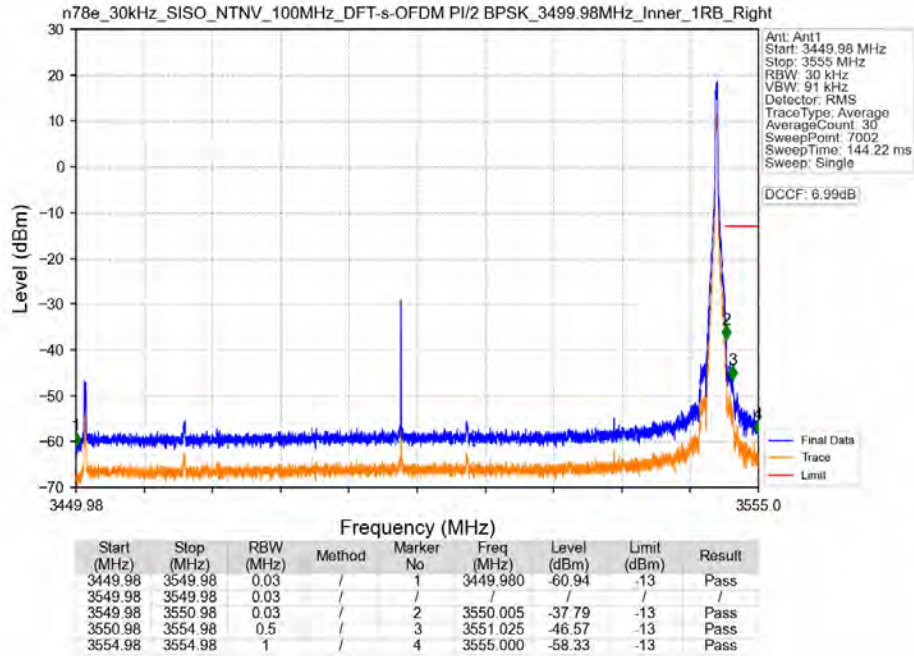


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Report No.: SZCR240100038409

Rev.: 01

Page: 1034 of 1458



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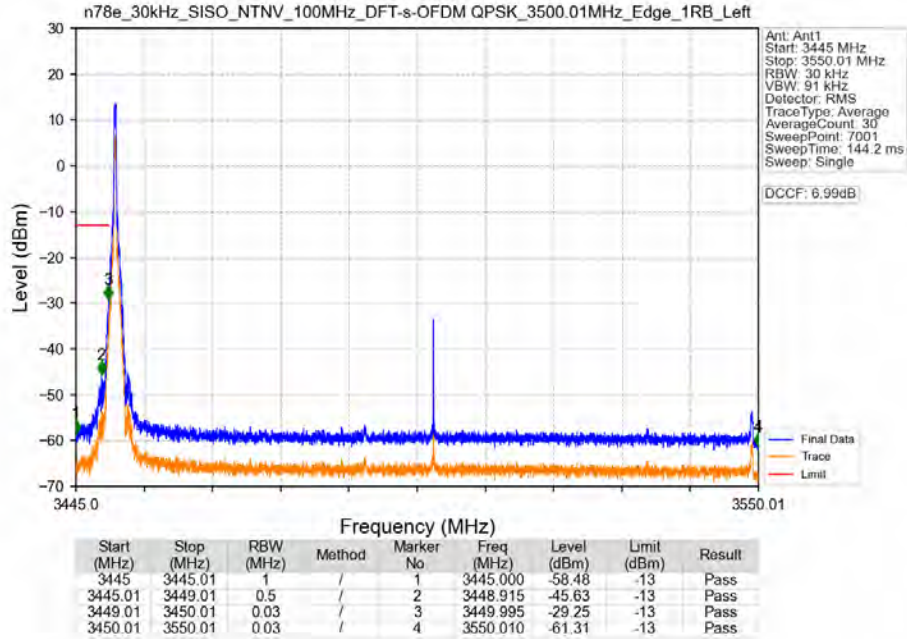
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1035 of 1458

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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_QPSK_3500.01MHz_Edge_1RB_Left



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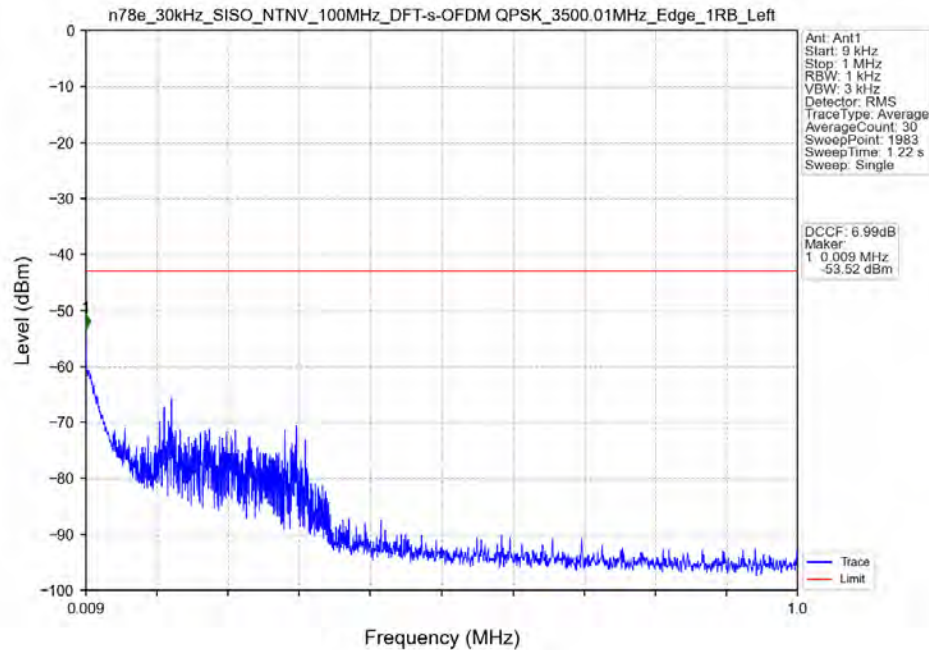


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Report No.: SZCR240100038409

Rev.: 01

Page: 1036 of 1458



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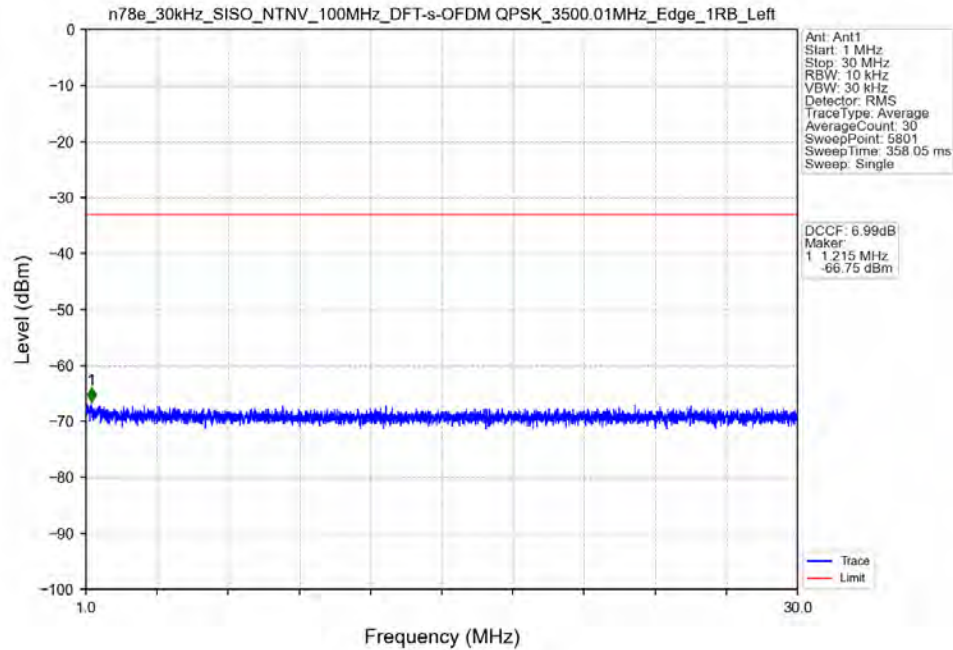
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1037 of 1458

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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3500.01MHz_Edge_1RB_Left



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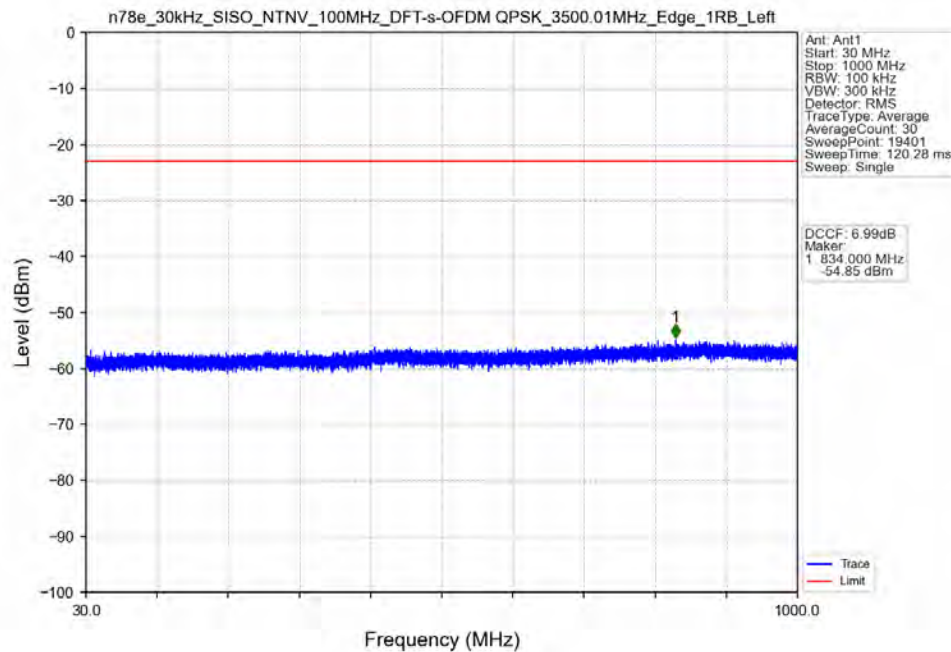


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Report No.: SZCR240100038409

Rev.: 01

Page: 1038 of 1458



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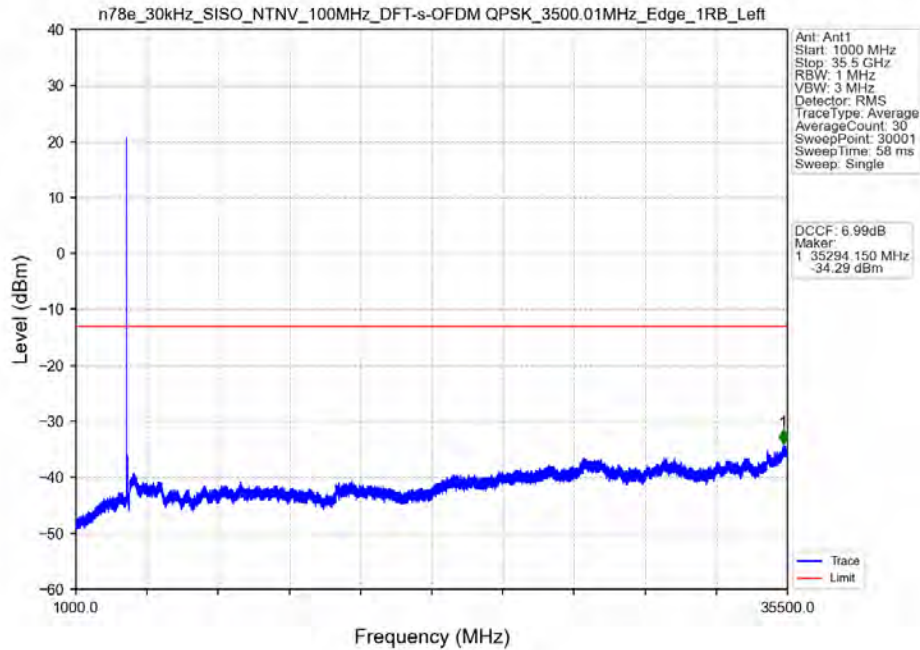
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Report No.: SZCR240100038409

Rev.: 01

Page: 1039 of 1458

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n78e_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



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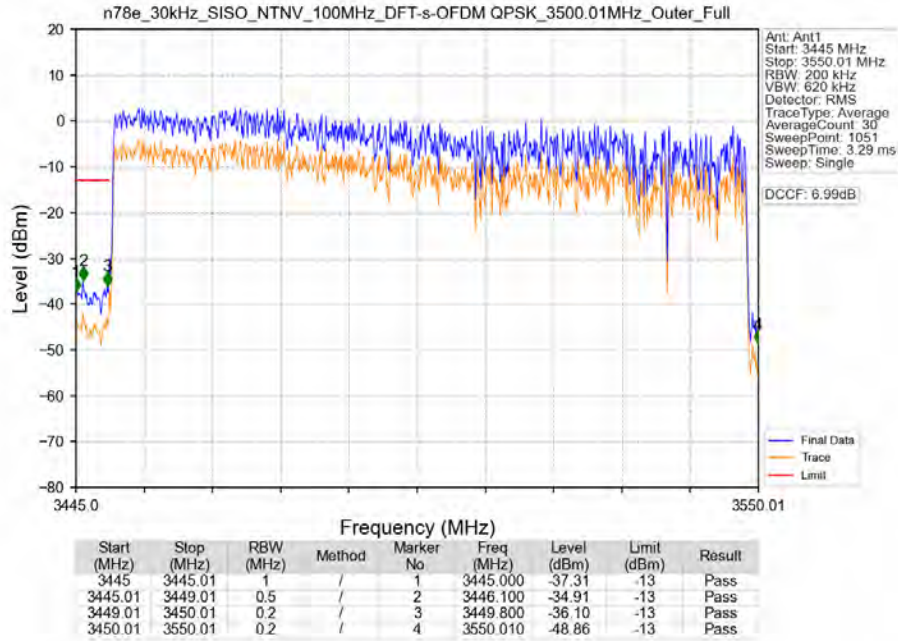


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Report No.: SZCR240100038409

Rev.: 01

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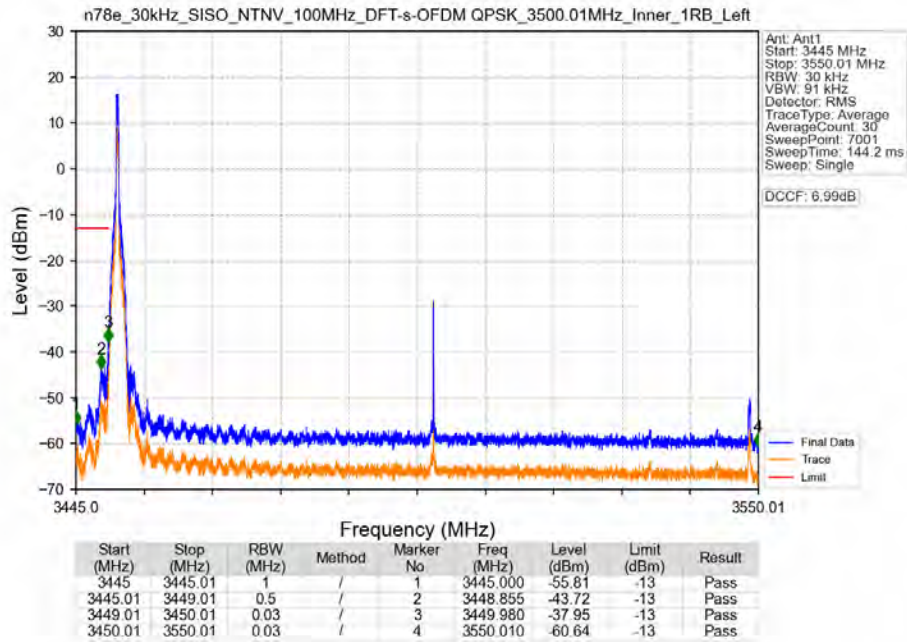
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Report No.: SZCR240100038409

Rev.: 01

Page: 1041 of 1458

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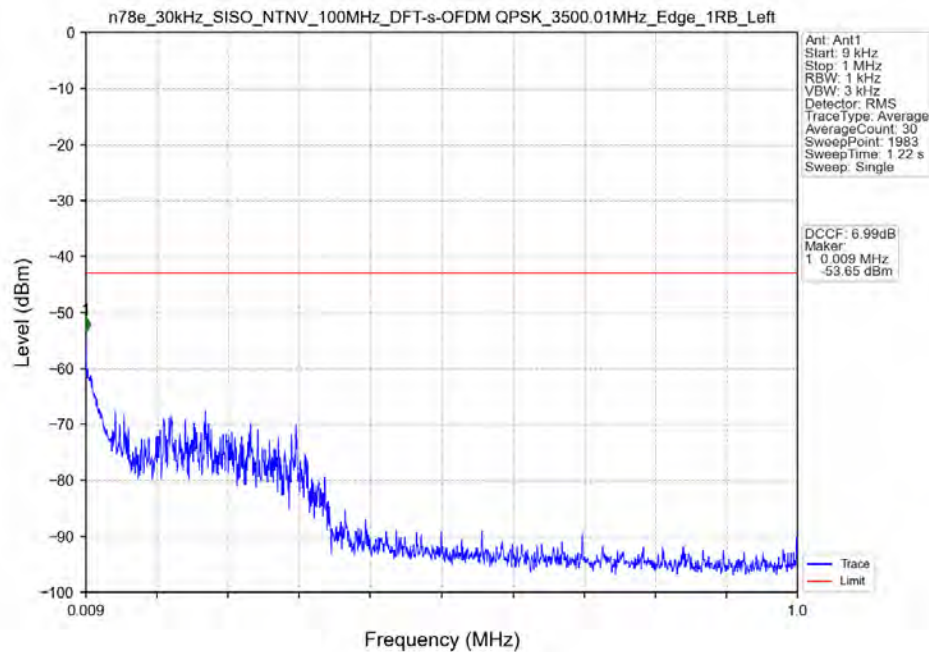


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Report No.: SZCR240100038409

Rev.: 01

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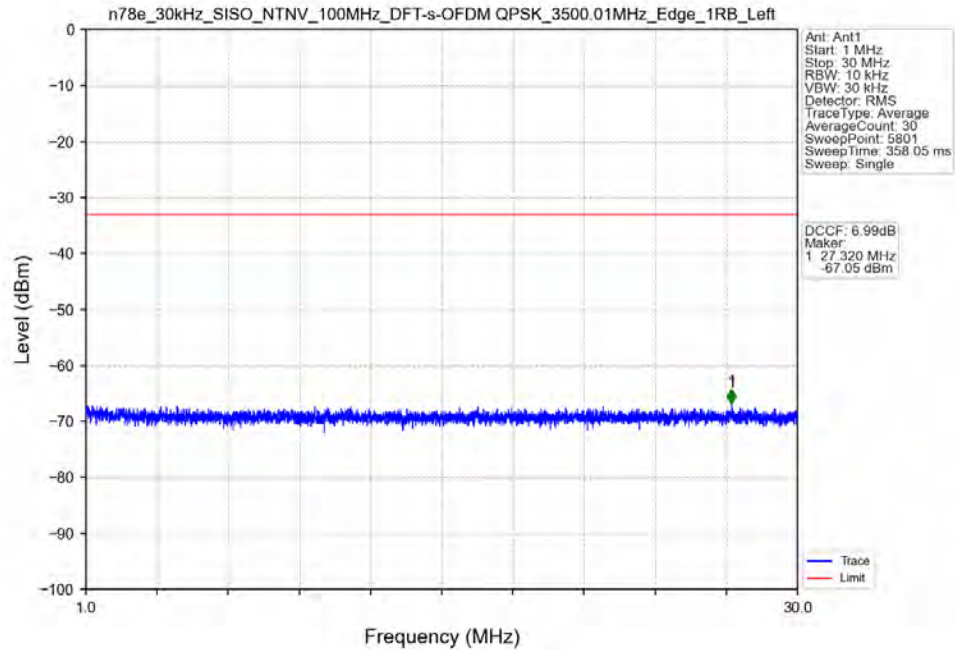
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Report No.: SZCR240100038409

Rev.: 01

Page: 1043 of 1458

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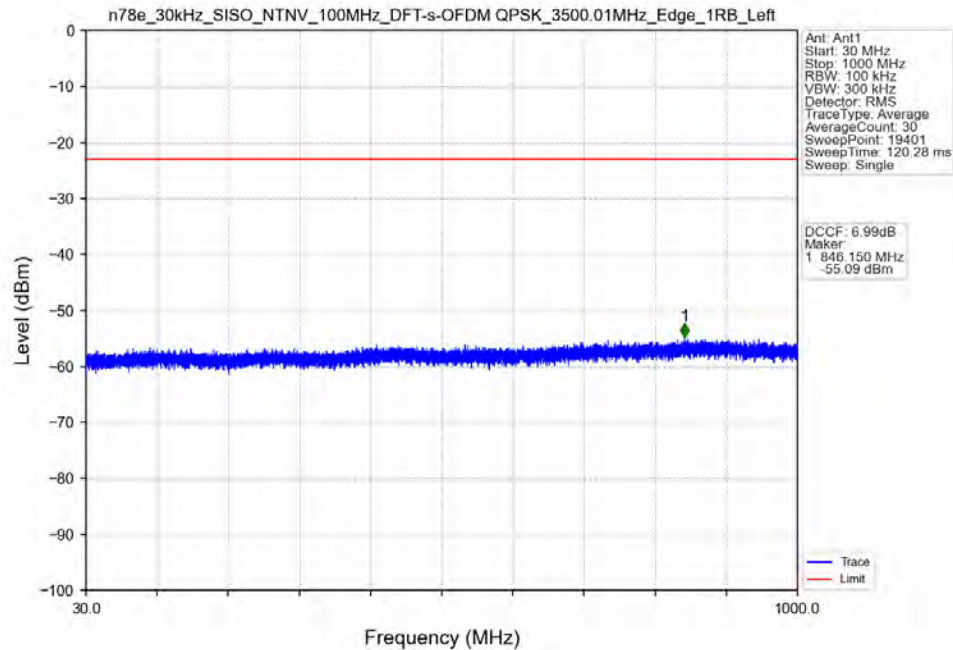


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Rev.: 01

Page: 1044 of 1458



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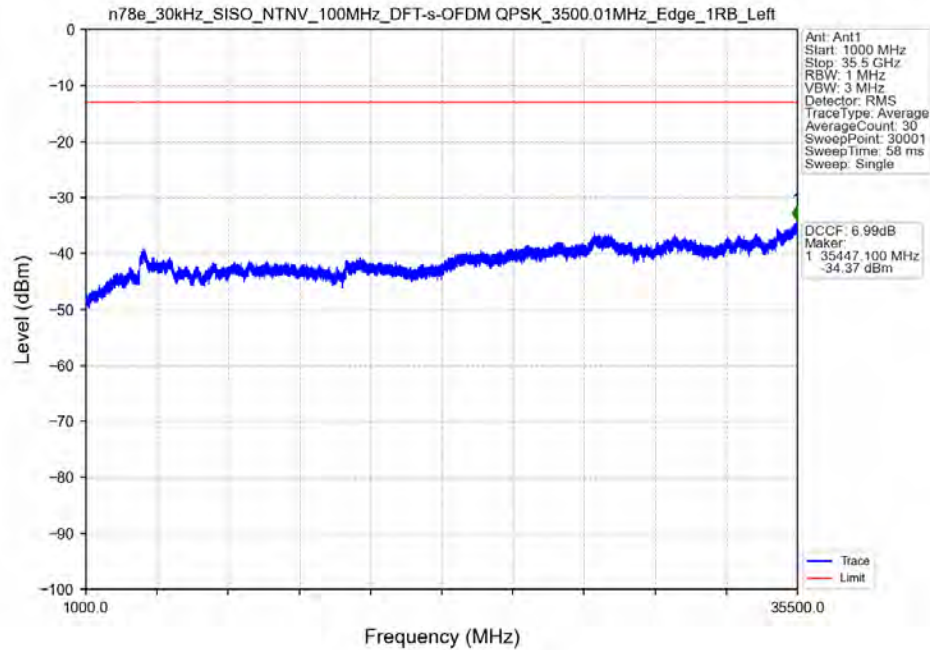
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Report No.: SZCR240100038409

Rev.: 01

Page: 1045 of 1458

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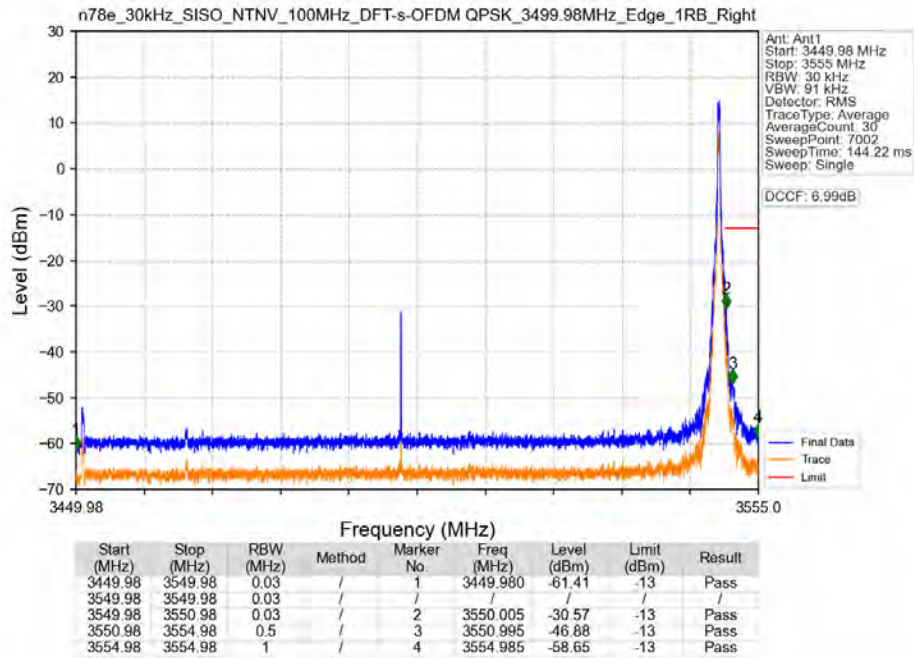


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Report No.: SZCR240100038409

Rev.: 01

Page: 1046 of 1458



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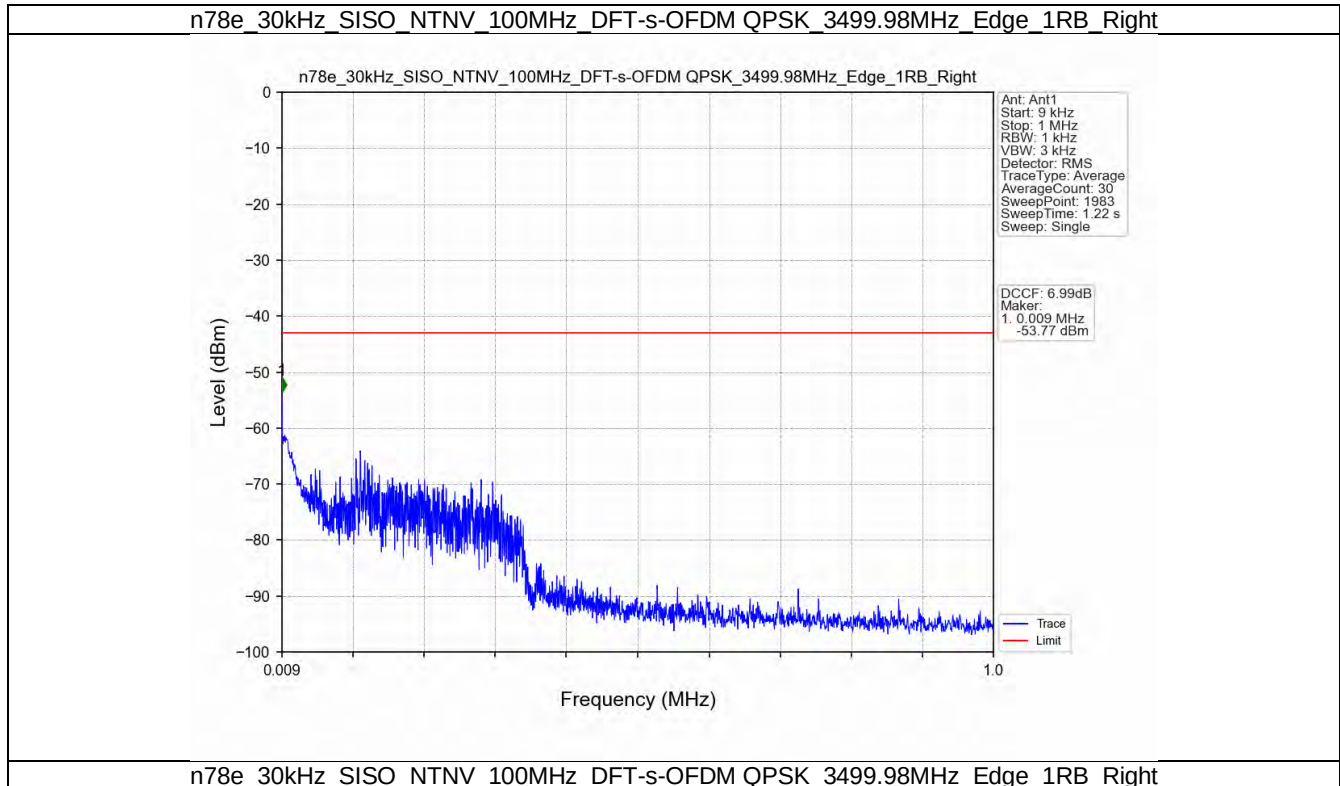


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1047 of 1458



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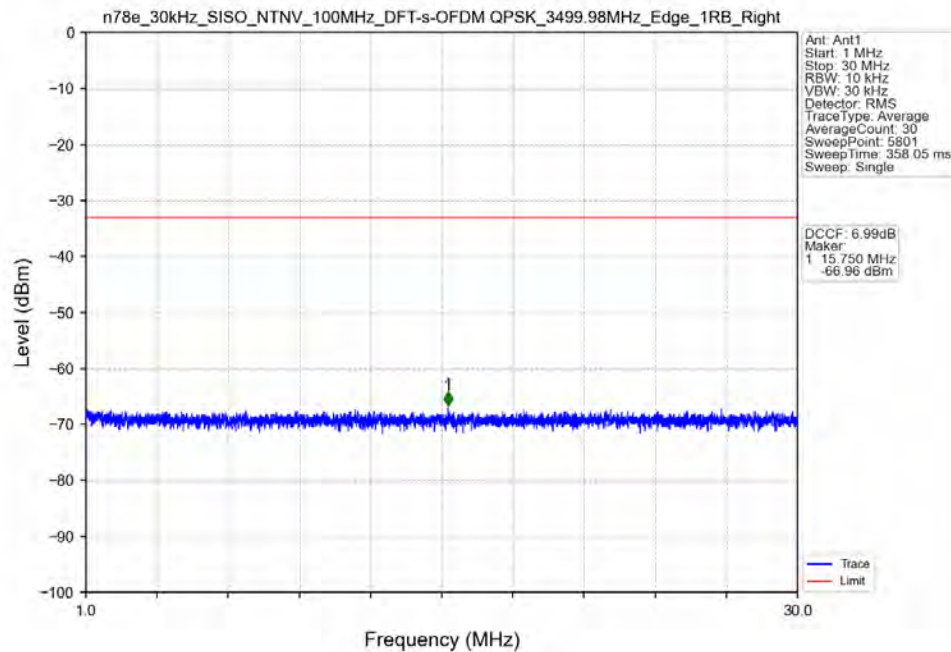


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1048 of 1458



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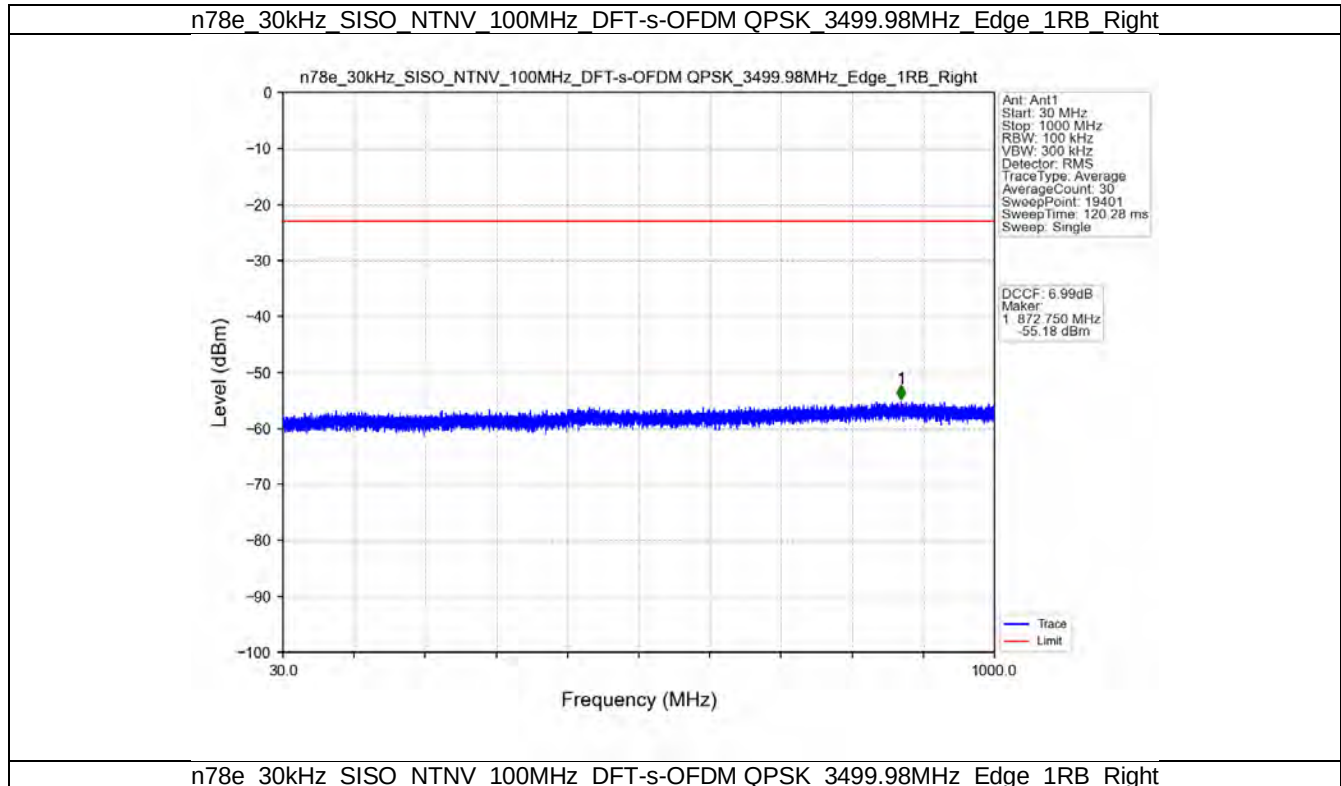


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1049 of 1458



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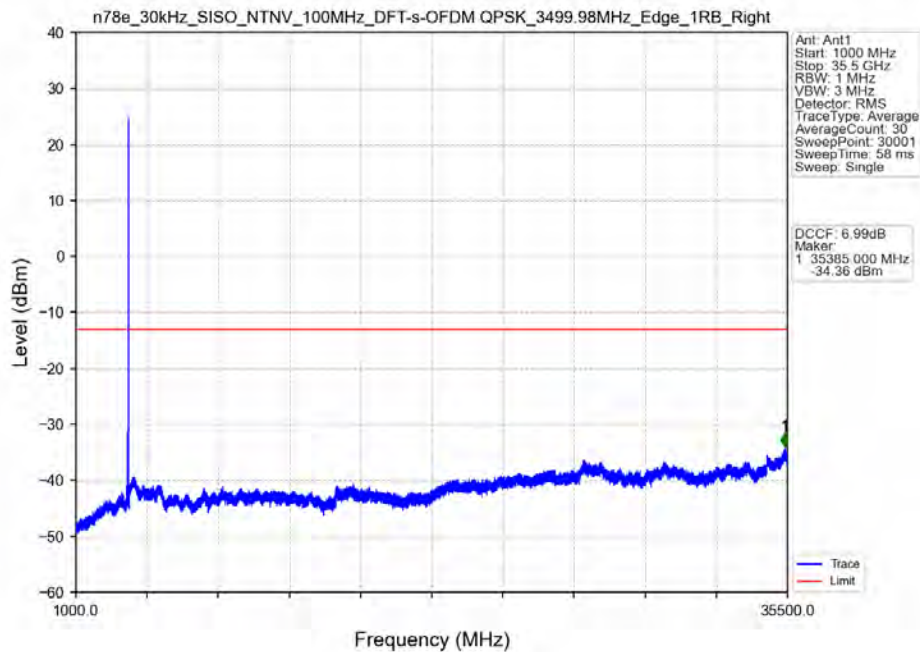


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Report No.: SZCR240100038409

Rev.: 01

Page: 1050 of 1458



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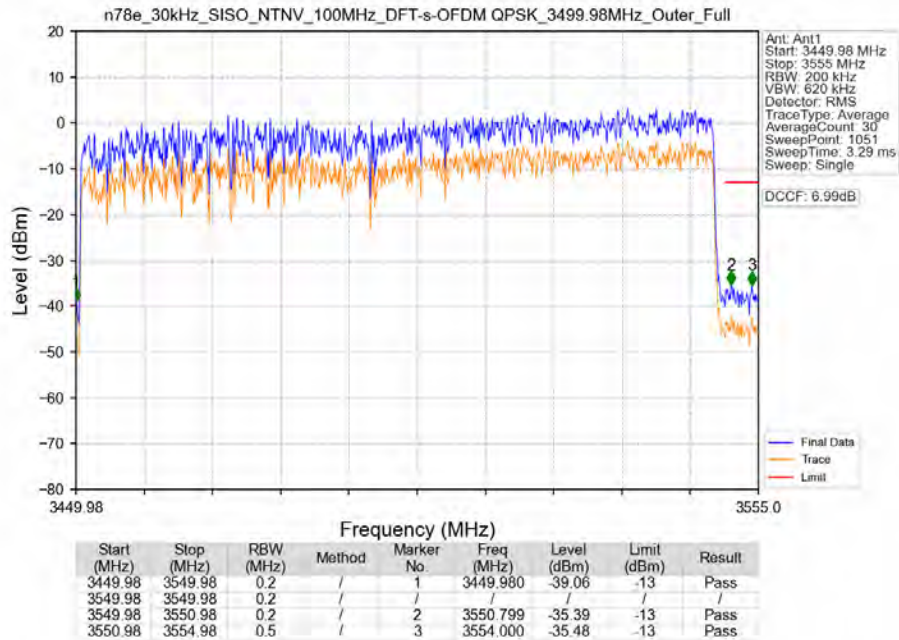
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1051 of 1458

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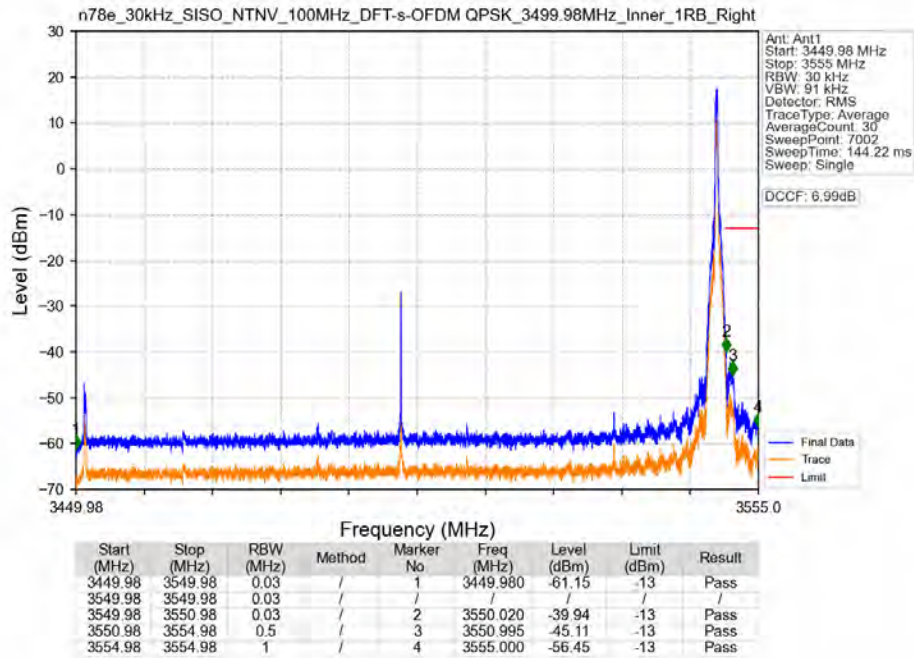


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Report No.: SZCR240100038409

Rev.: 01

Page: 1052 of 1458



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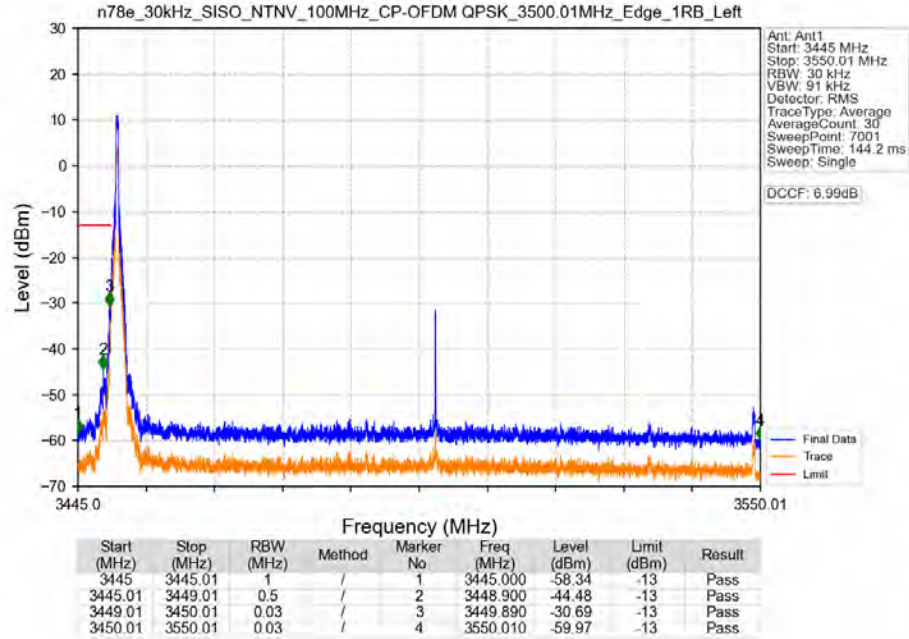
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1053 of 1458

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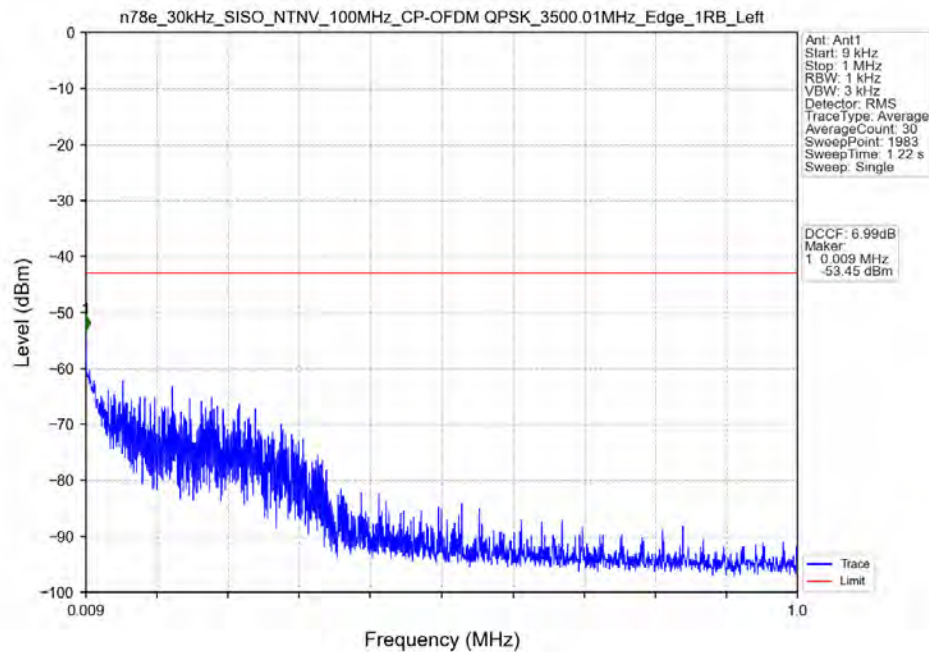


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Report No.: SZCR240100038409

Rev.: 01

Page: 1054 of 1458



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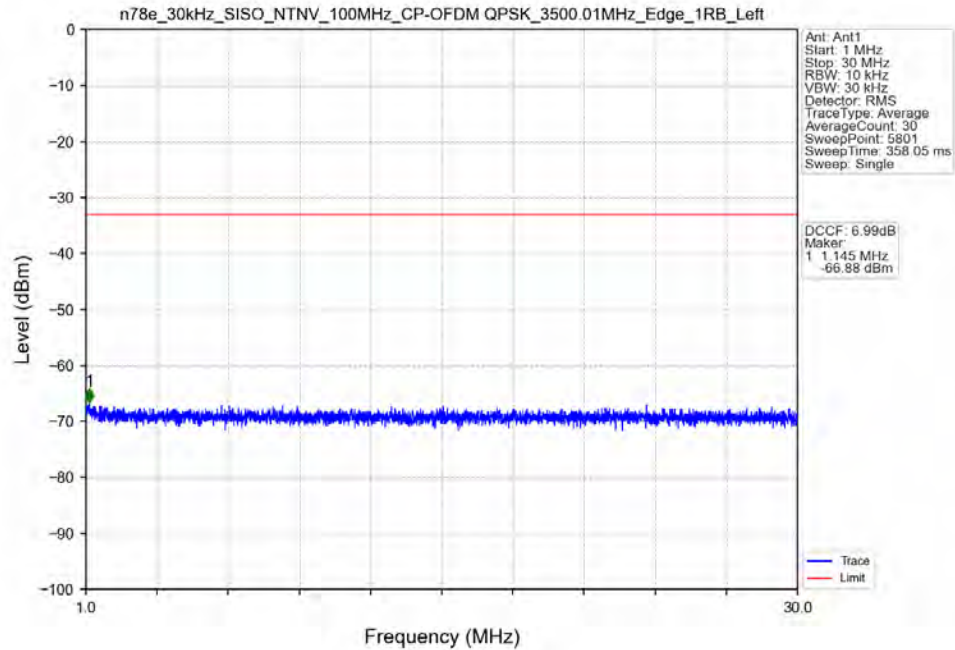
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Report No.: SZCR240100038409

Rev.: 01

Page: 1055 of 1458

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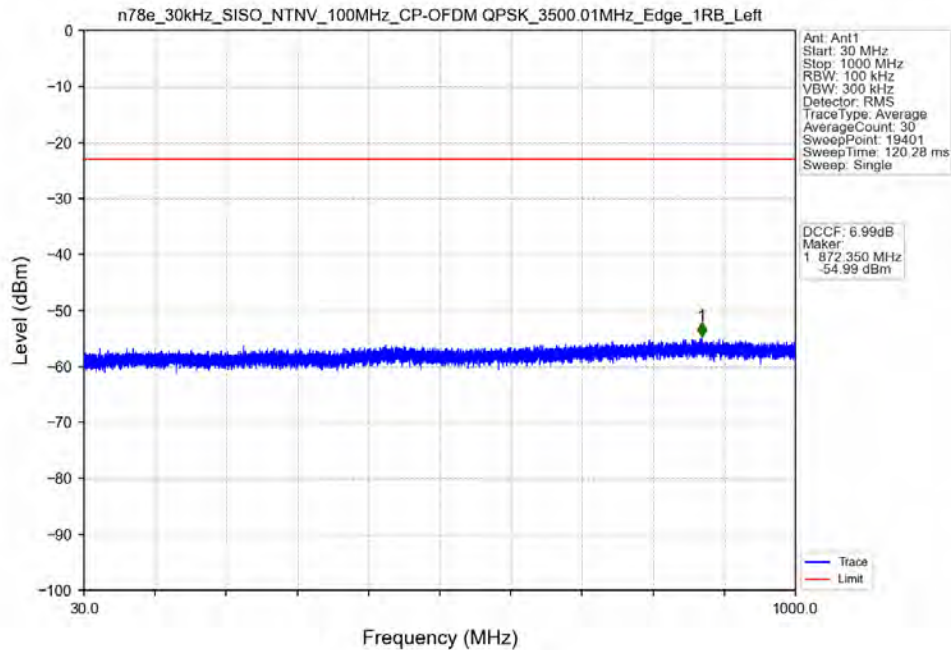


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Report No.: SZCR240100038409

Rev.: 01

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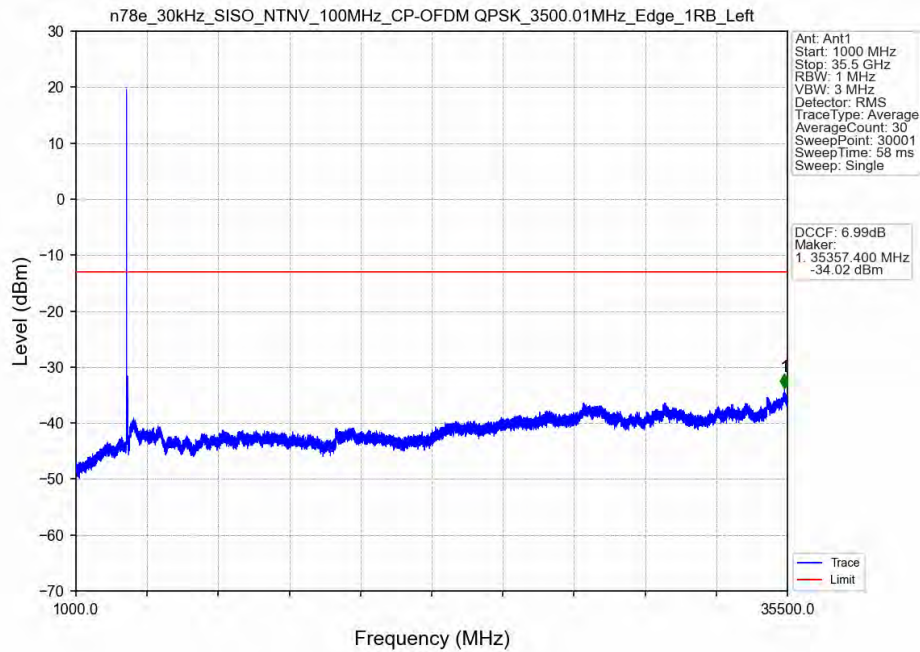
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Report No.: SZCR240100038409

Rev.: 01

Page: 1057 of 1458

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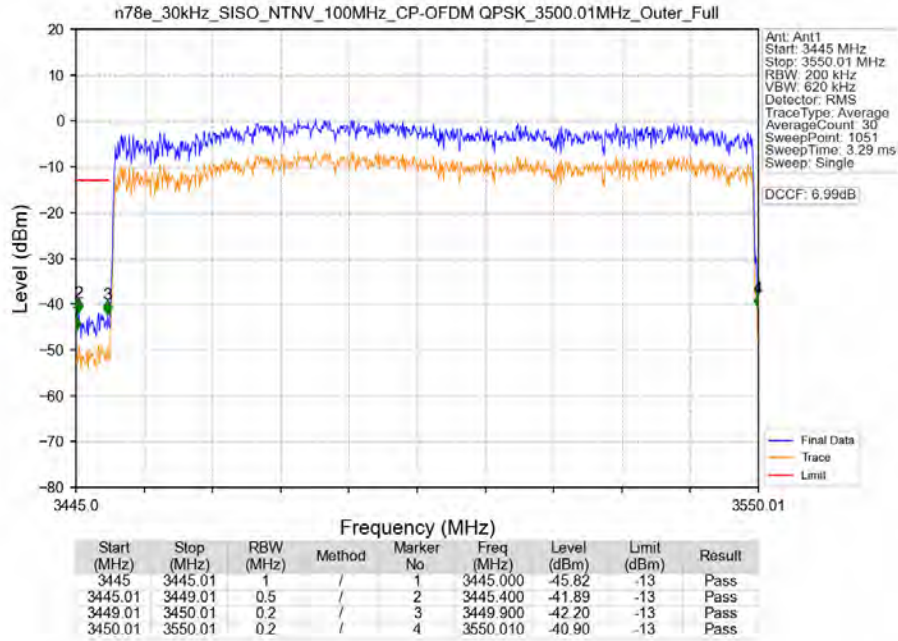


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Report No.: SZCR240100038409

Rev.: 01

Page: 1058 of 1458



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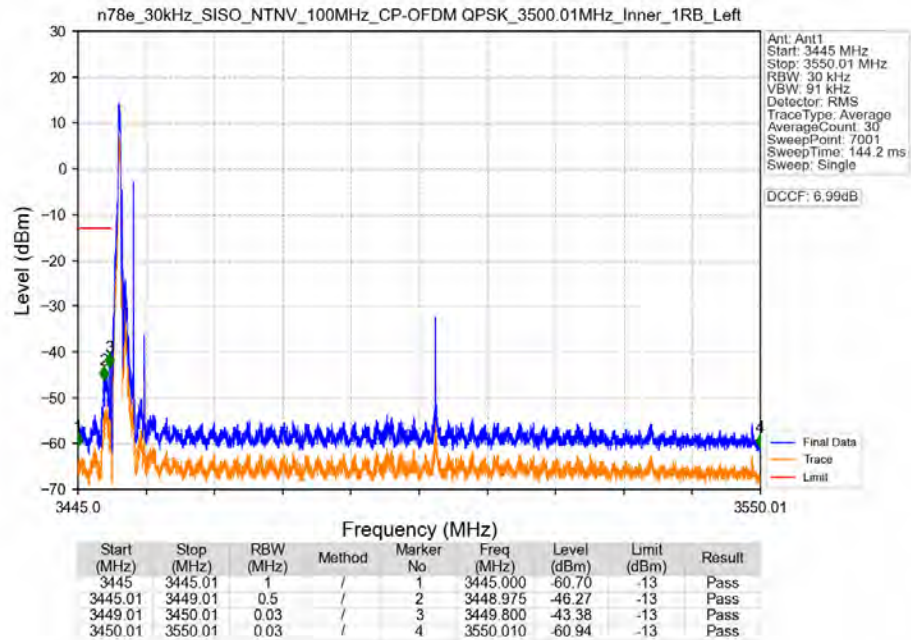
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Report No.: SZCR240100038409

Rev.: 01

Page: 1059 of 1458

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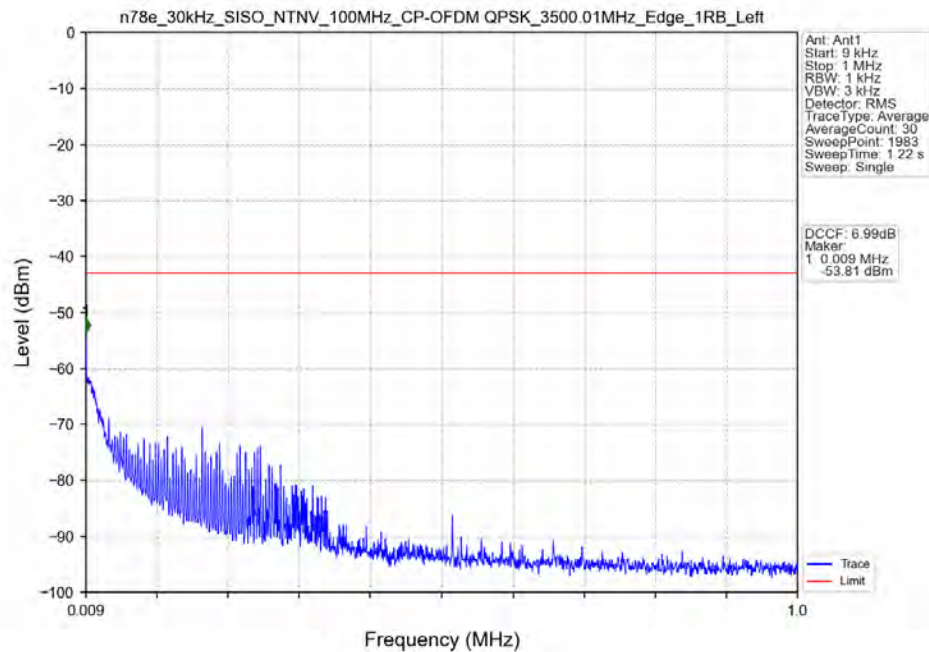


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Report No.: SZCR240100038409

Rev.: 01

Page: 1060 of 1458



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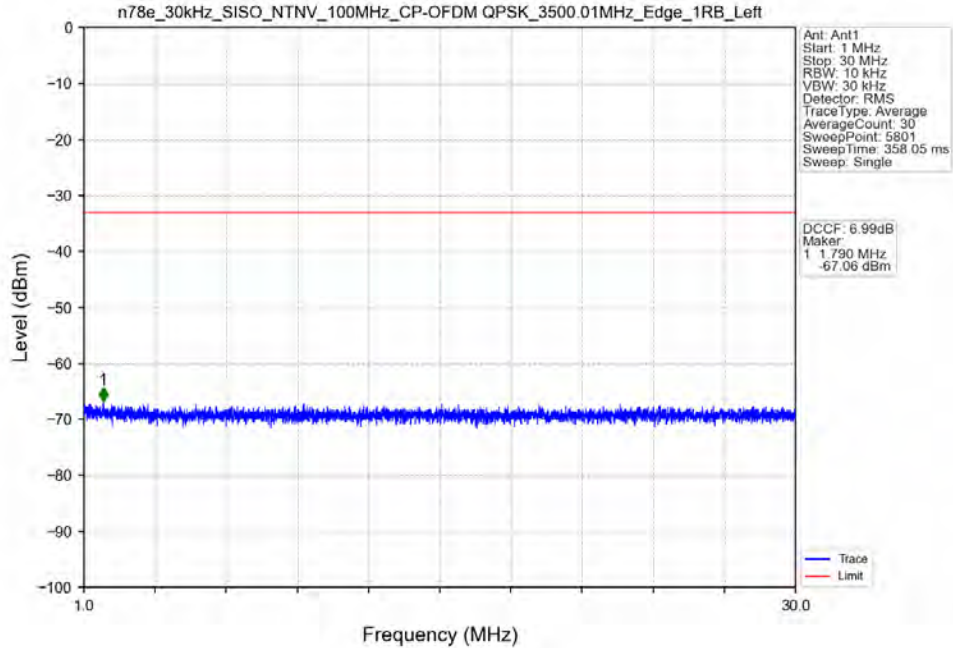
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Report No.: SZCR240100038409

Rev.: 01

Page: 1061 of 1458

n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3500.01MHz_Edge_1RB_Left



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3500.01MHz_Edge_1RB_Left



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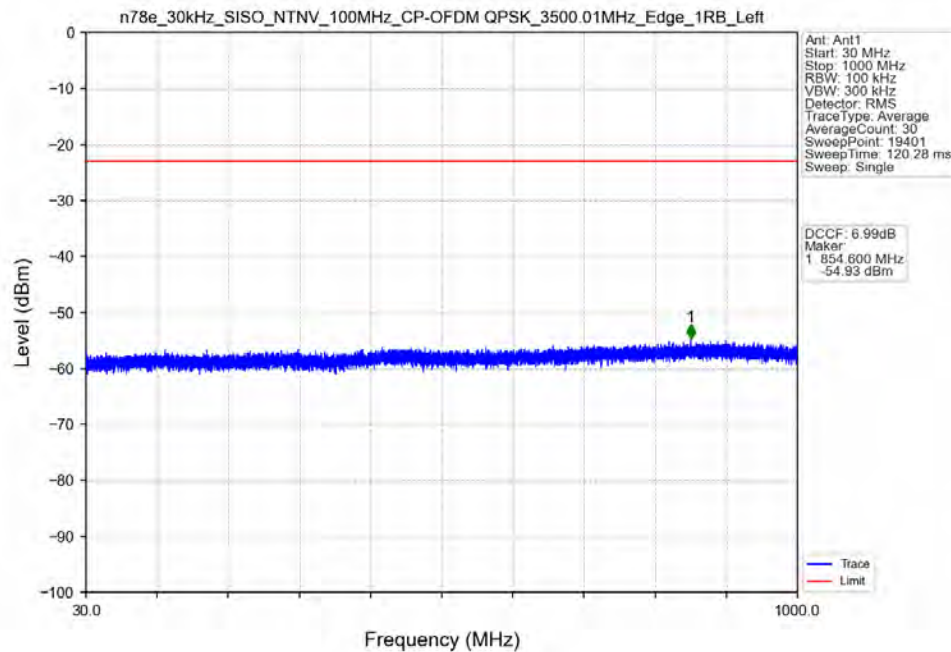


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1062 of 1458



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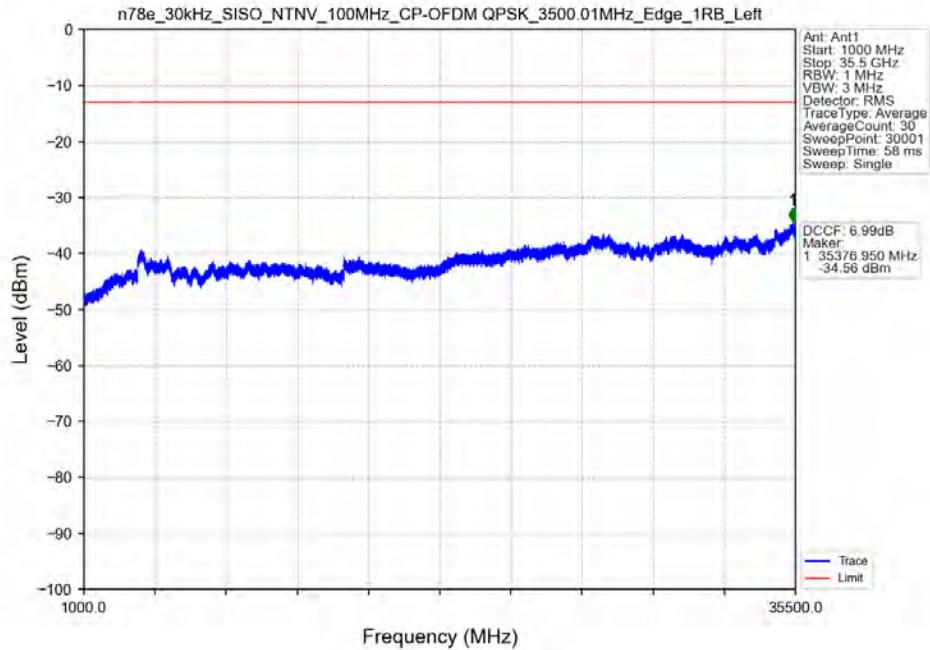
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1063 of 1458

n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3500.01MHz_Edge_1RB_Left



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3499.98MHz_Edge_1RB_Right



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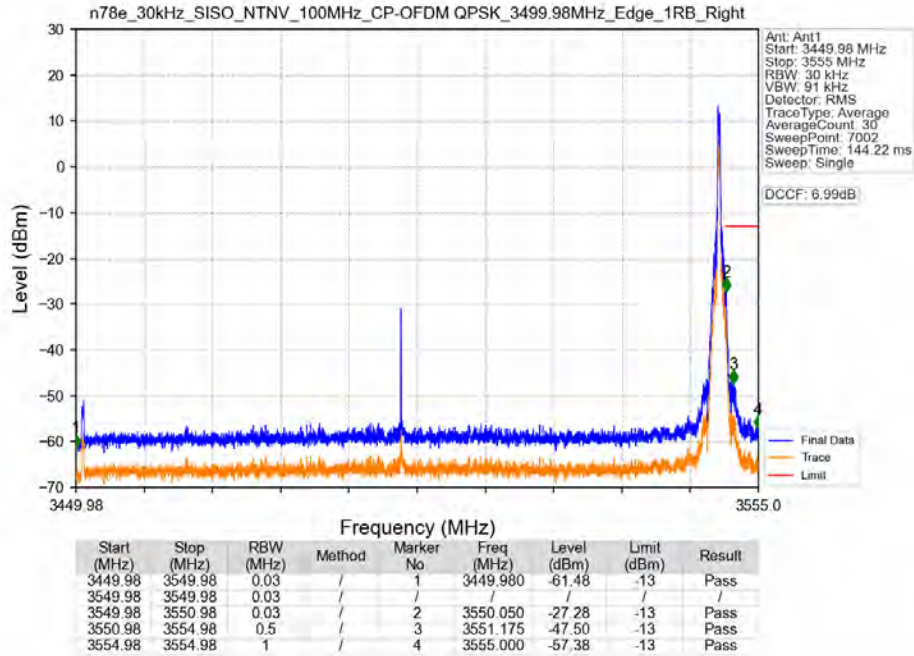


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Report No.: SZCR240100038409

Rev.: 01

Page: 1064 of 1458



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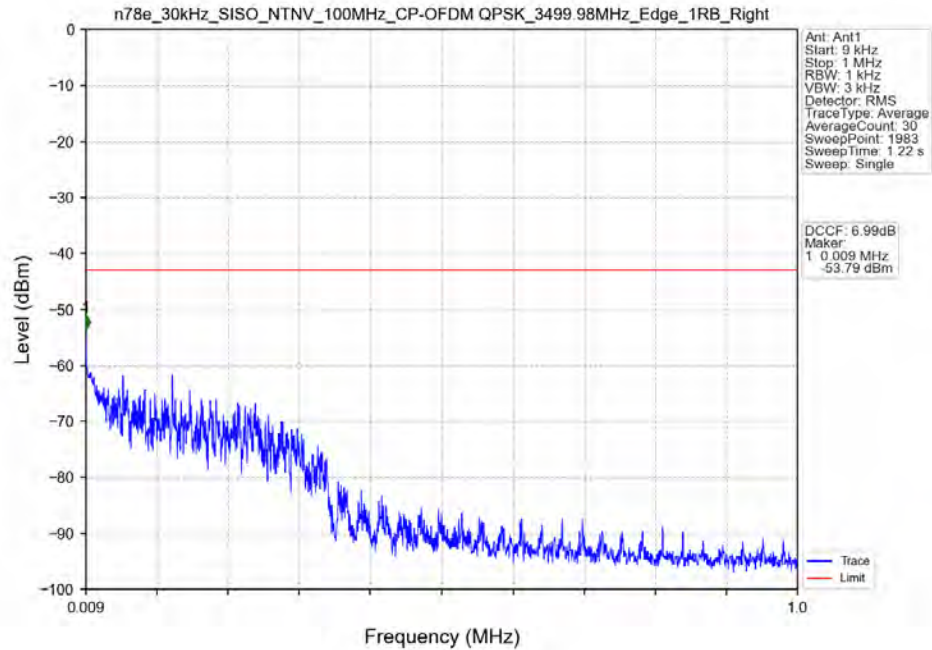
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Report No.: SZCR240100038409

Rev.: 01

Page: 1065 of 1458

n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3499.98MHz_Edge_1RB_Right



n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3499.98MHz_Edge_1RB_Right



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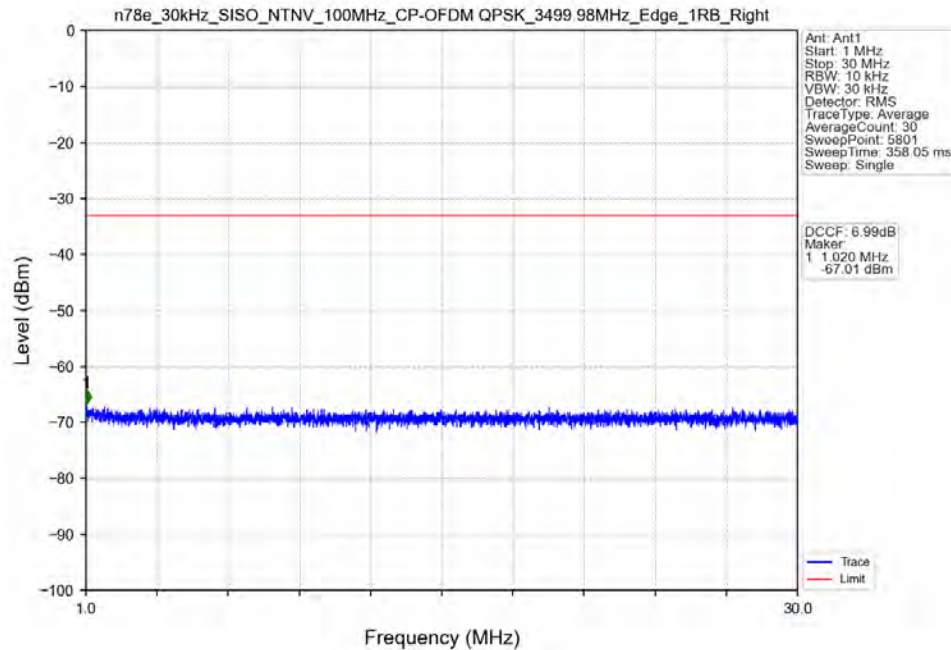


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Report No.: SZCR240100038409

Rev.: 01

Page: 1066 of 1458



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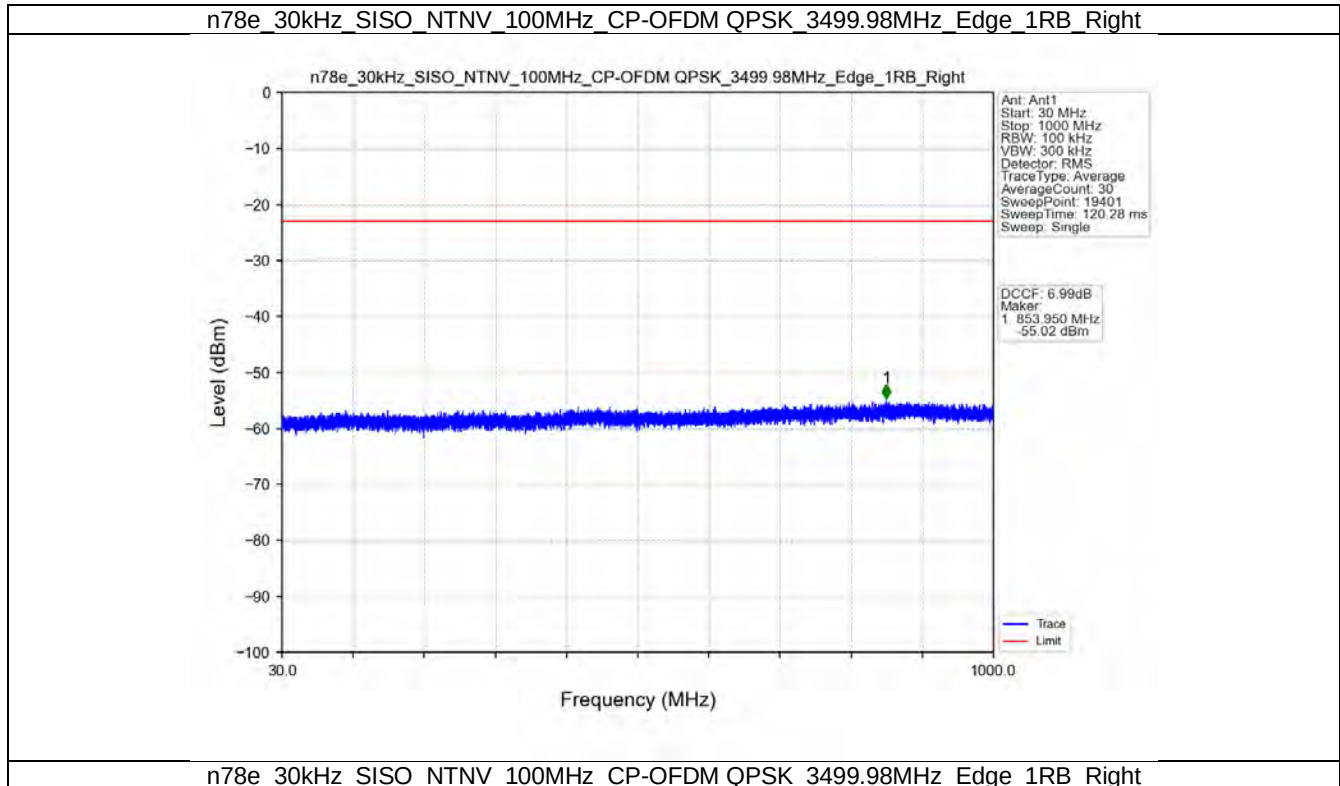


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Report No.: SZCR240100038409

Rev.: 01

Page: 1067 of 1458



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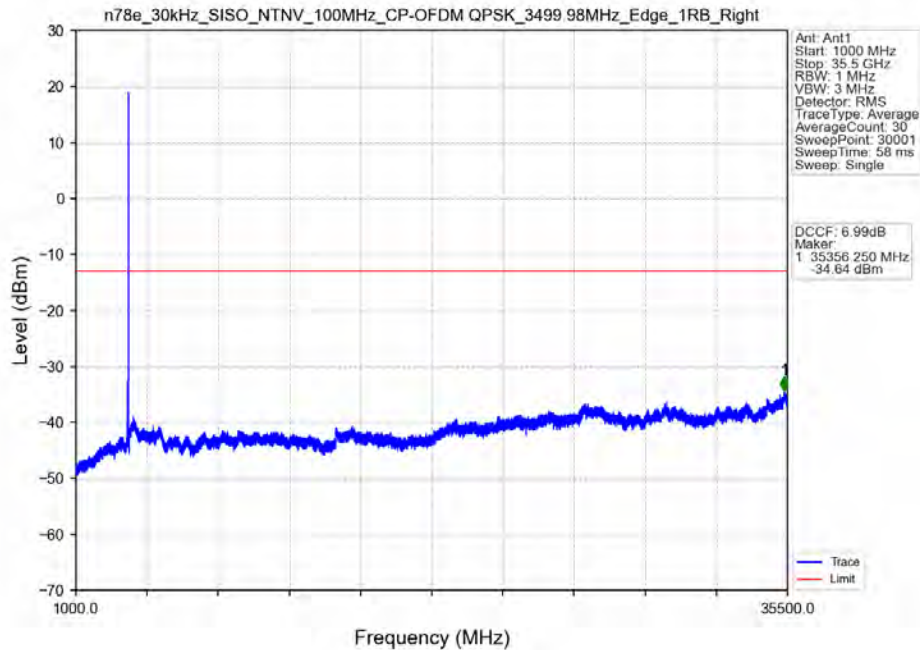


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Rev.: 01

Page: 1068 of 1458



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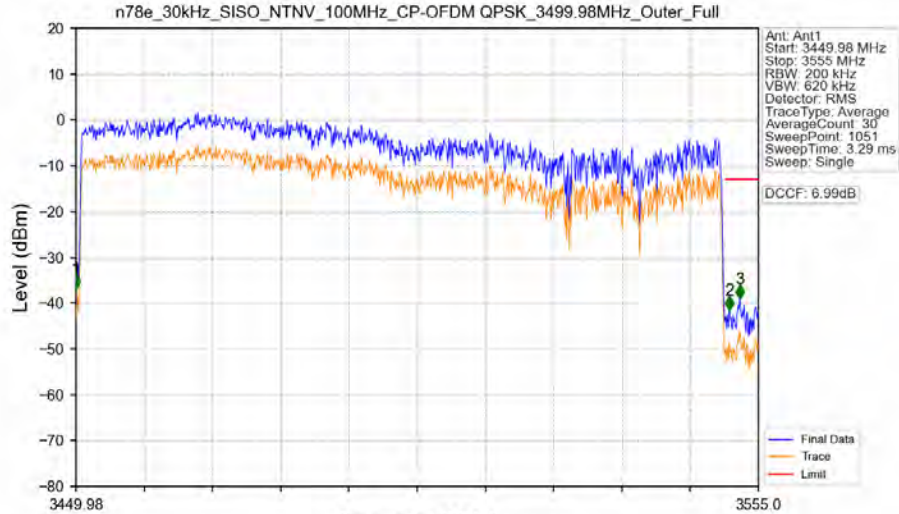
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Report No.: SZCR240100038409

Rev.: 01

Page: 1069 of 1458

n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_3499.98MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3449.98	3549.98	0.2	/	1	3449.980	-36.77	-13	Pass
3549.98	3549.98	0.2	/	/	/	/	/	/
3549.98	3550.98	0.2	/	2	3550.499	-41.57	-13	Pass
3550.98	3554.98	0.5	/	3	3552.099	-39.03	-13	Pass

n78e_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_3499.98MHz_Inner_1RB_Right



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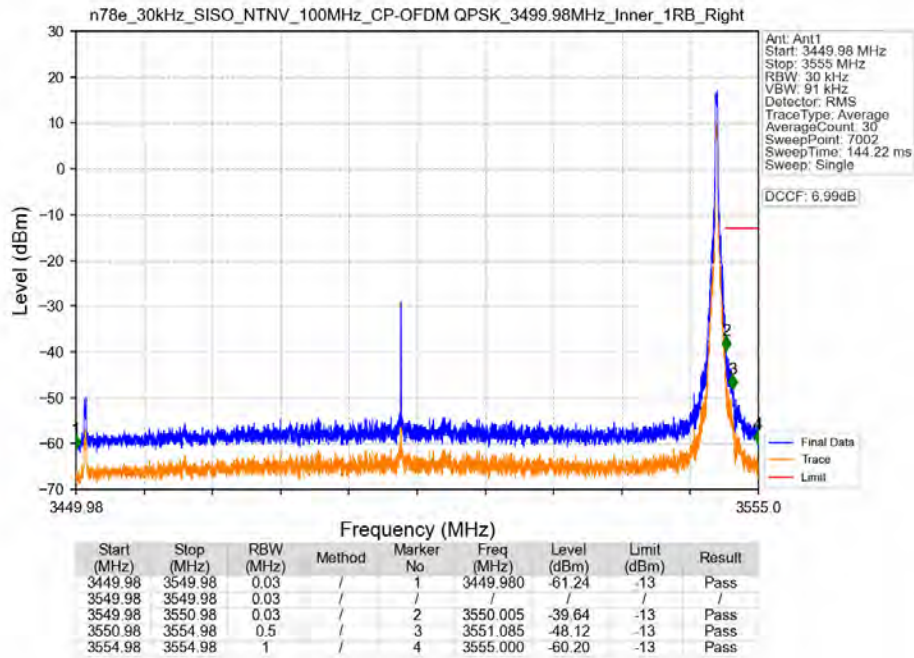


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Rev.: 01

Page: 1070 of 1458



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Report No.: SZCR240100038409

Rev.: 01

Page: 1071 of 1458

5.10 30k_MIMO_20MHz_NTNV

5.10.1 Test Result

5G NR n78e SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3460.02	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3540	Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass



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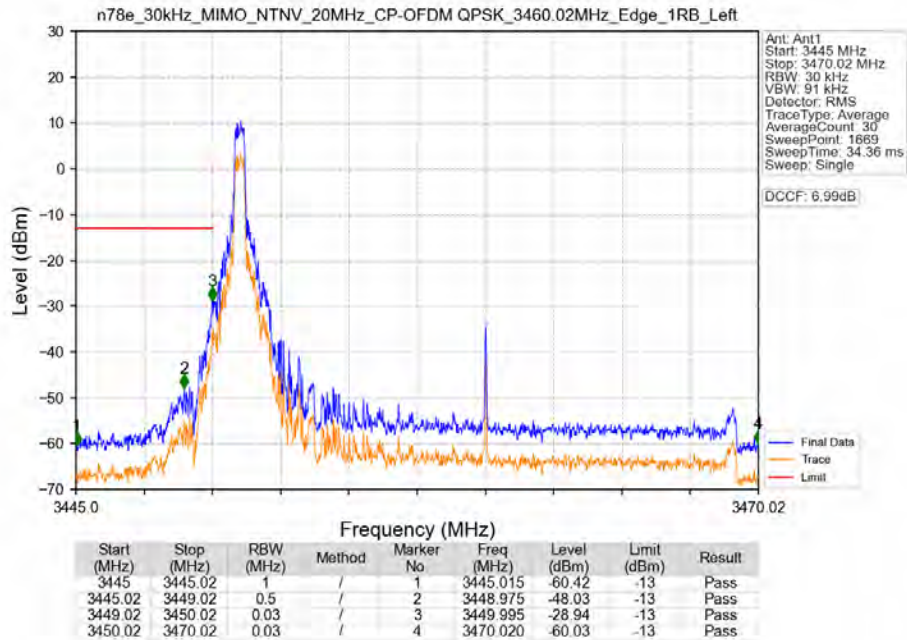
Report No.: SZCR240100038409

Rev.: 01

Page: 1072 of 1458

5.10.2 Test Graph

n78e 30kHz MIMO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left



n78e 30kHz MIMO NTN 20MHz CP-OFDM QPSK 3460.02MHz Edge 1RB Left



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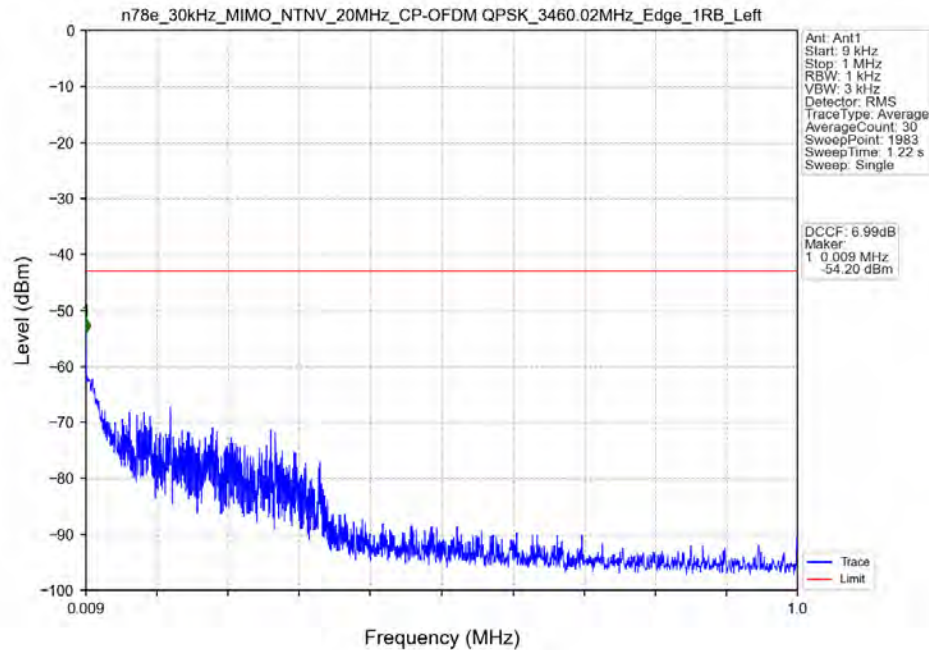


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Rev.: 01

Page: 1073 of 1458



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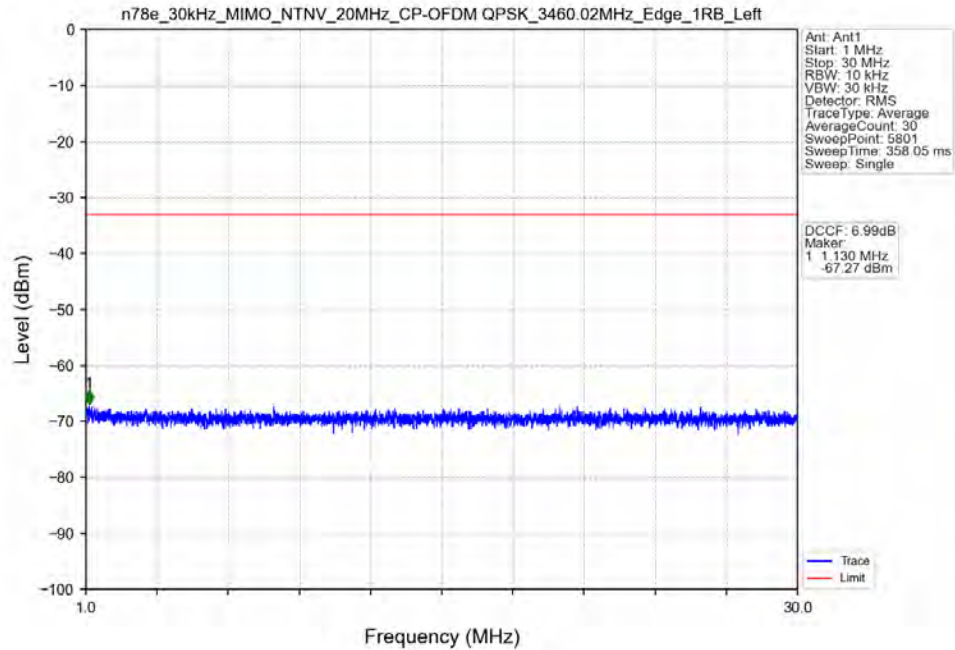
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Report No.: SZCR240100038409

Rev.: 01

Page: 1074 of 1458

n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3460.02MHz_Edge_1RB_Left



n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3460.02MHz_Edge_1RB_Left



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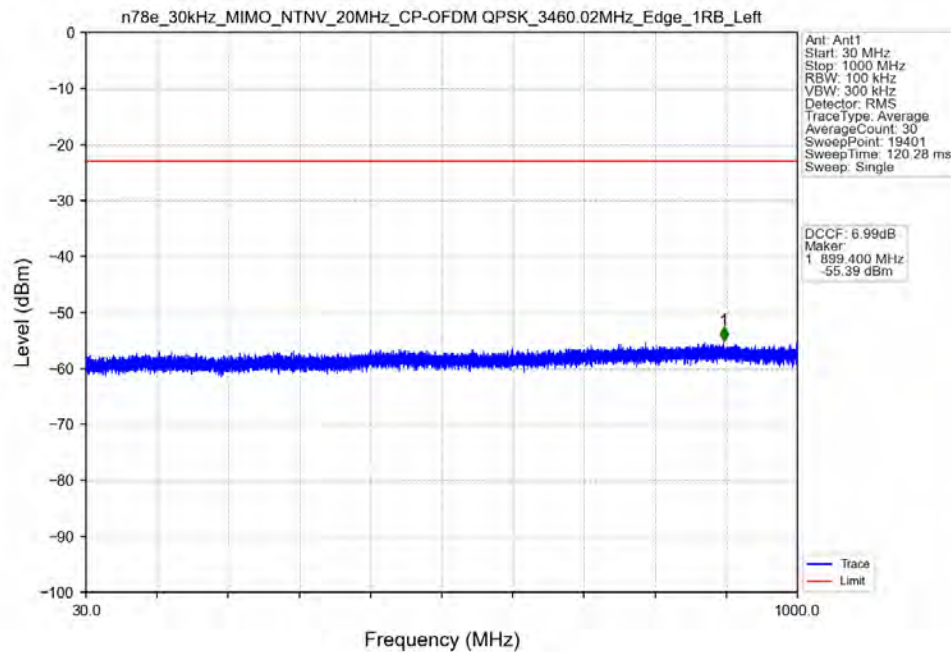


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Report No.: SZCR240100038409

Rev.: 01

Page: 1075 of 1458



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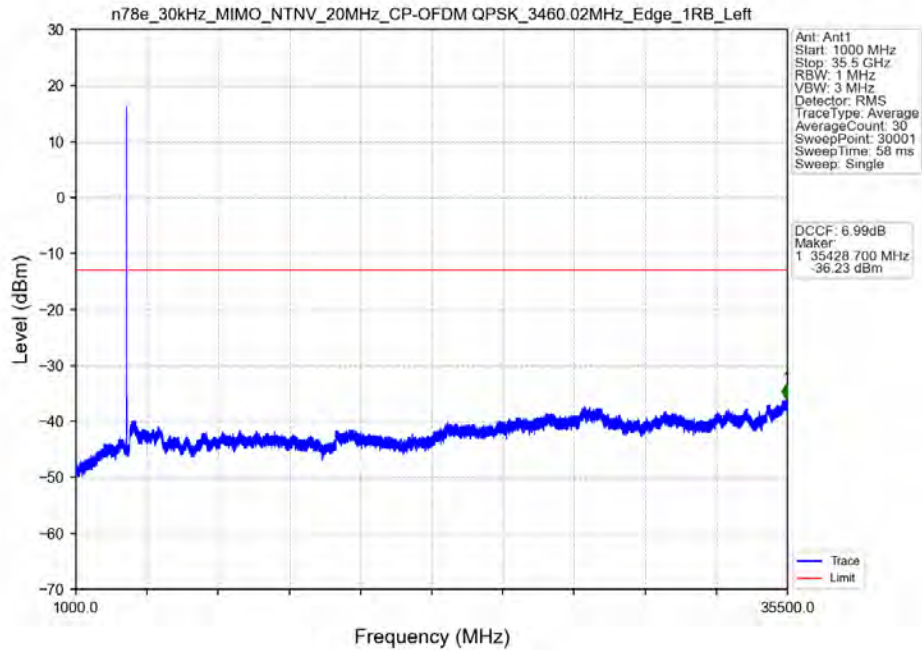
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1076 of 1458

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n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3460.02MHz_Edge_1RB_Left



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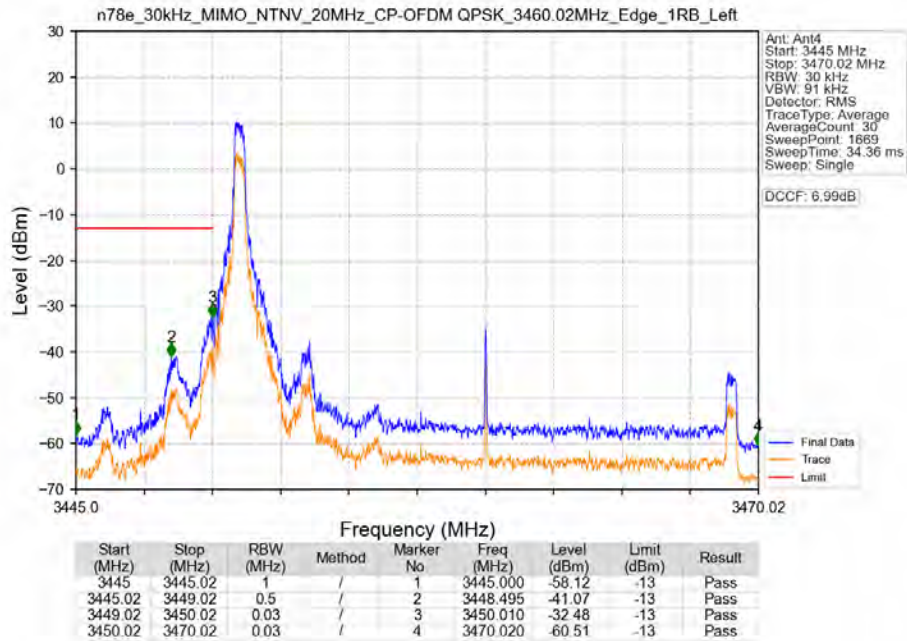


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1077 of 1458



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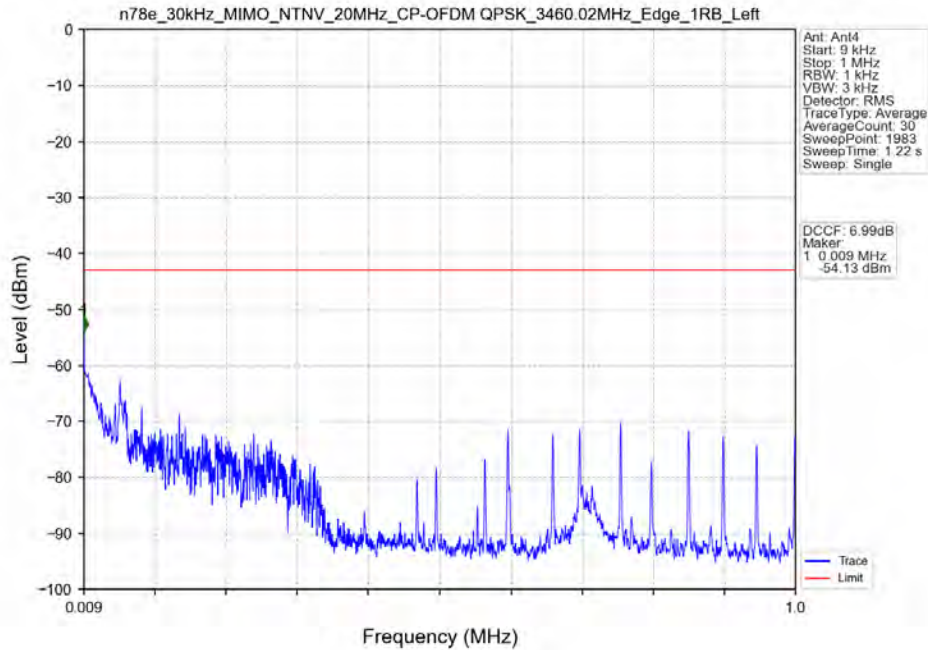
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1078 of 1458

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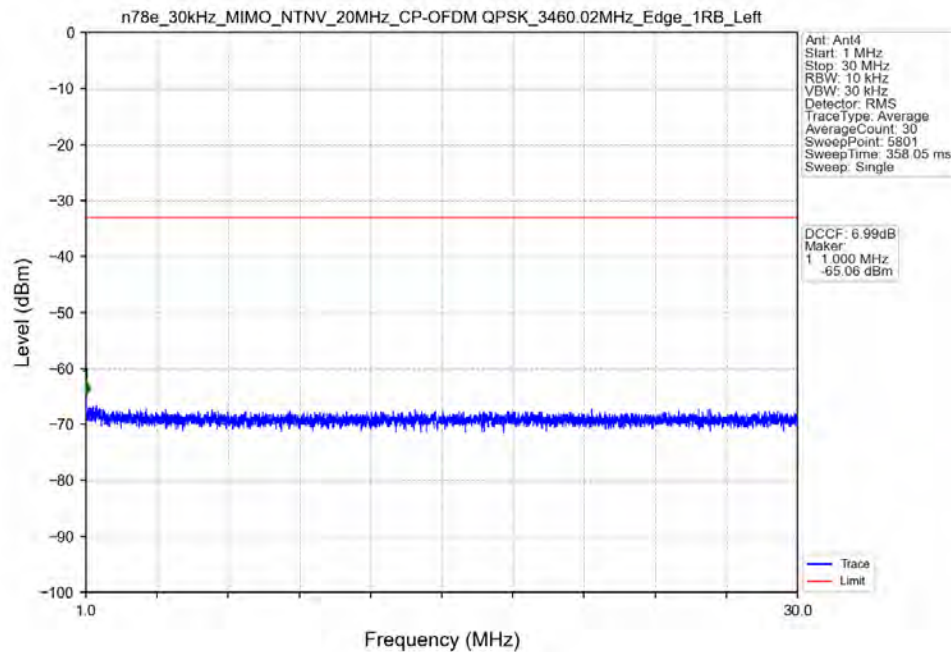


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1079 of 1458



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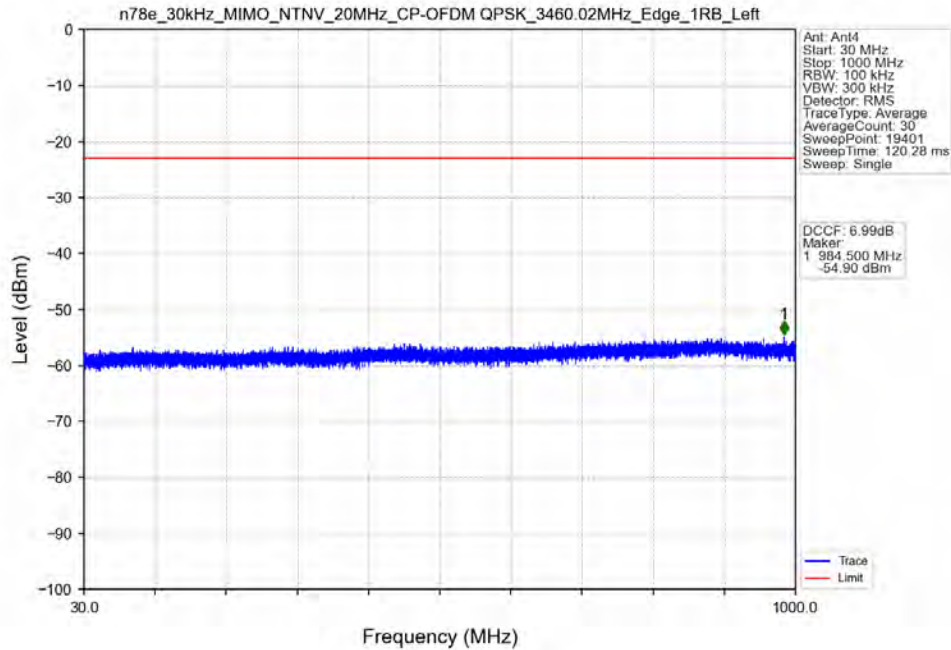
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1080 of 1458

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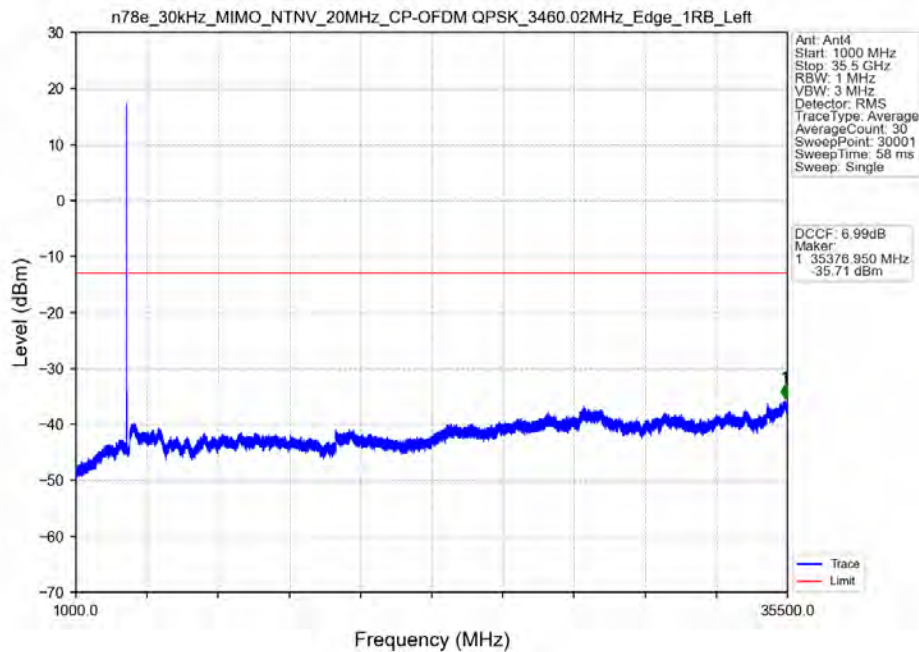


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Report No.: SZCR240100038409

Rev.: 01

Page: 1081 of 1458



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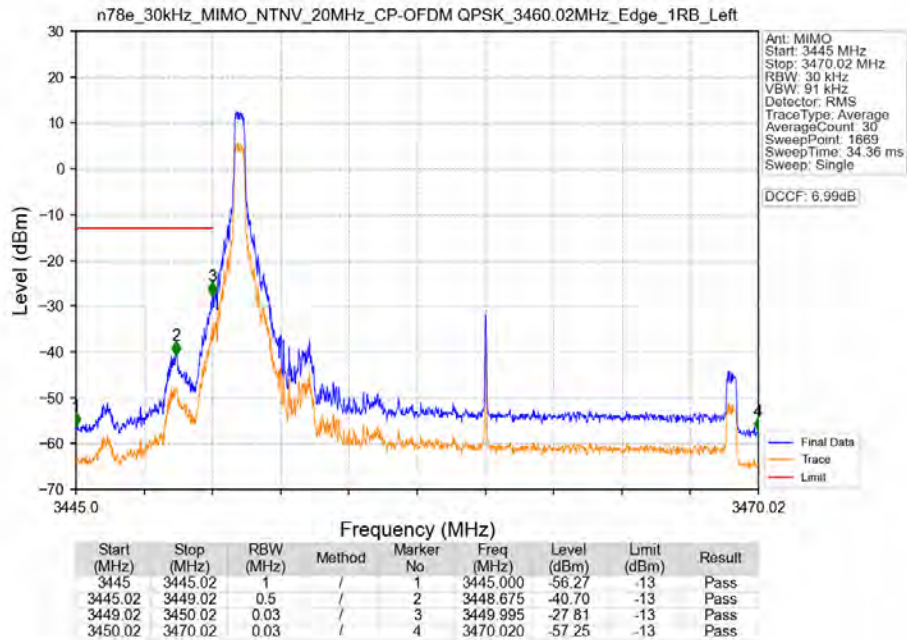
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Report No.: SZCR240100038409

Rev.: 01

Page: 1082 of 1458

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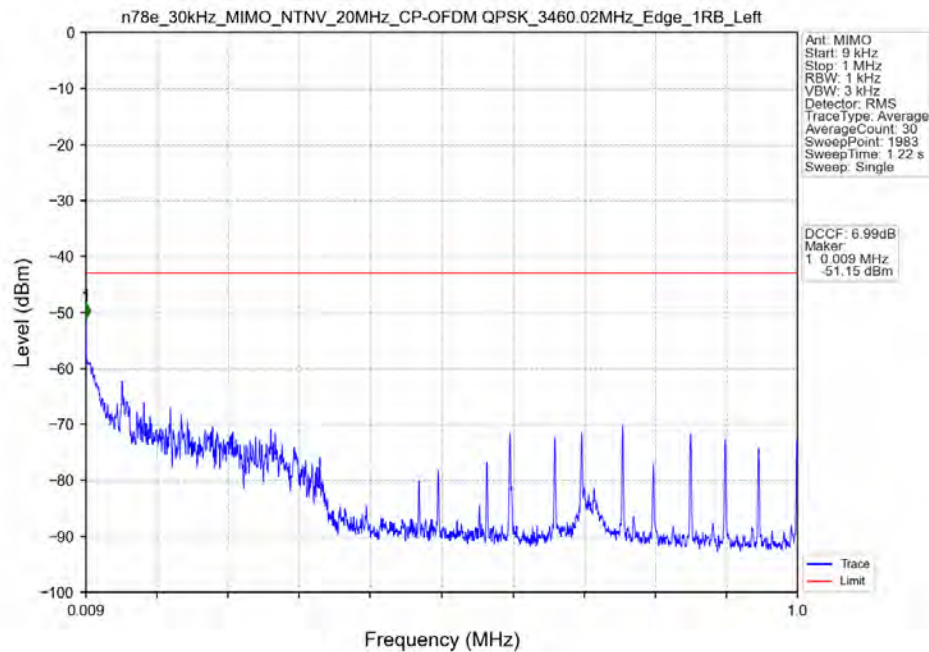


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Rev.: 01

Page: 1083 of 1458



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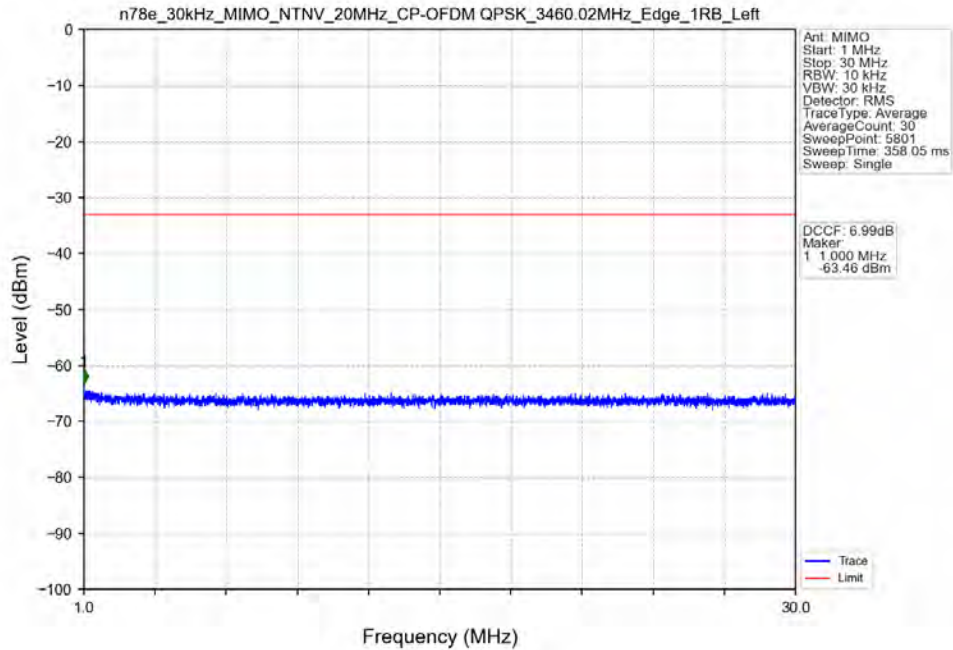
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Report No.: SZCR240100038409

Rev.: 01

Page: 1084 of 1458

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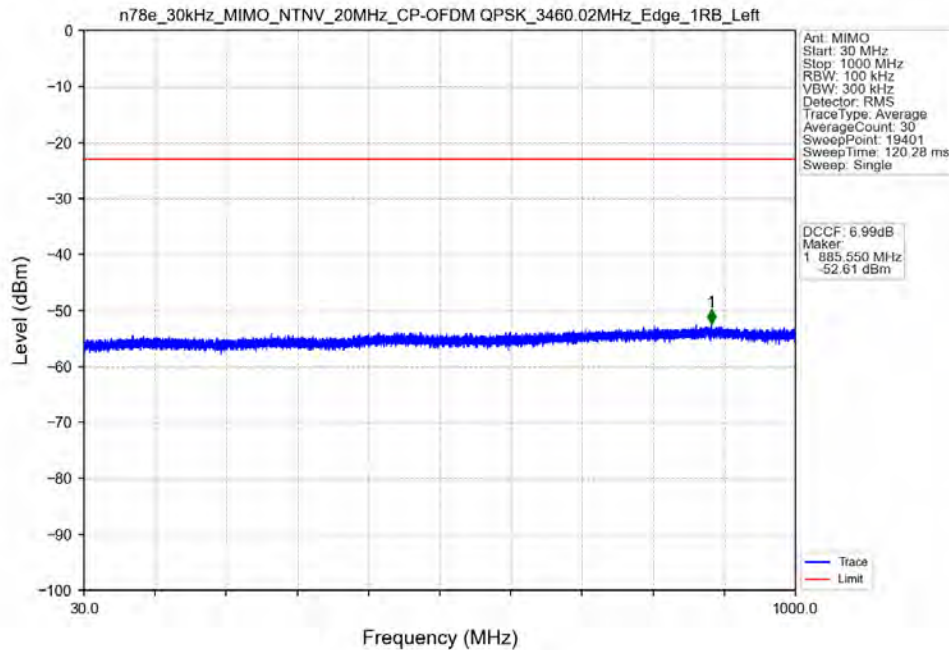


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Rev.: 01

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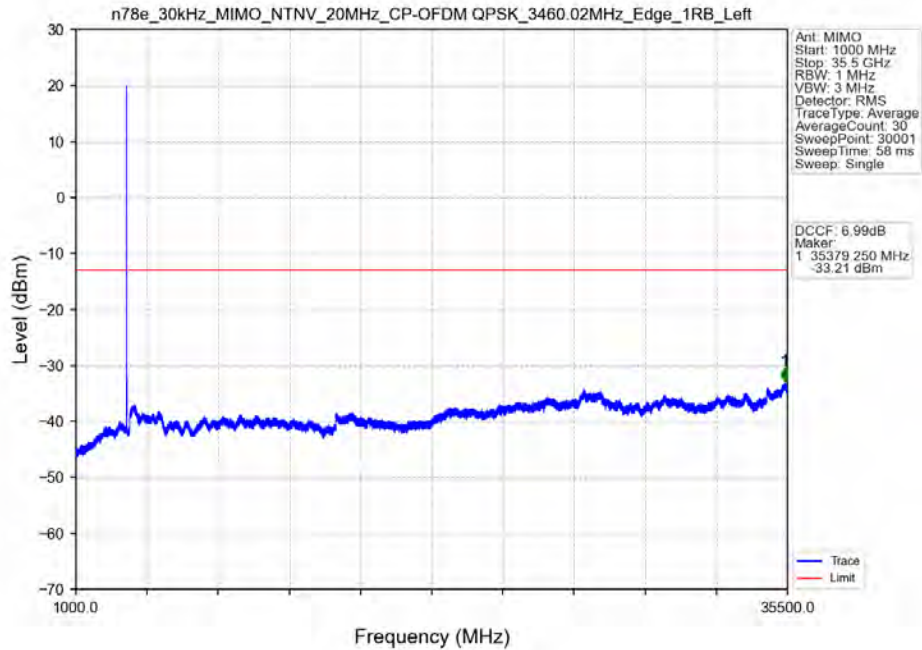
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Report No.: SZCR240100038409

Rev.: 01

Page: 1086 of 1458

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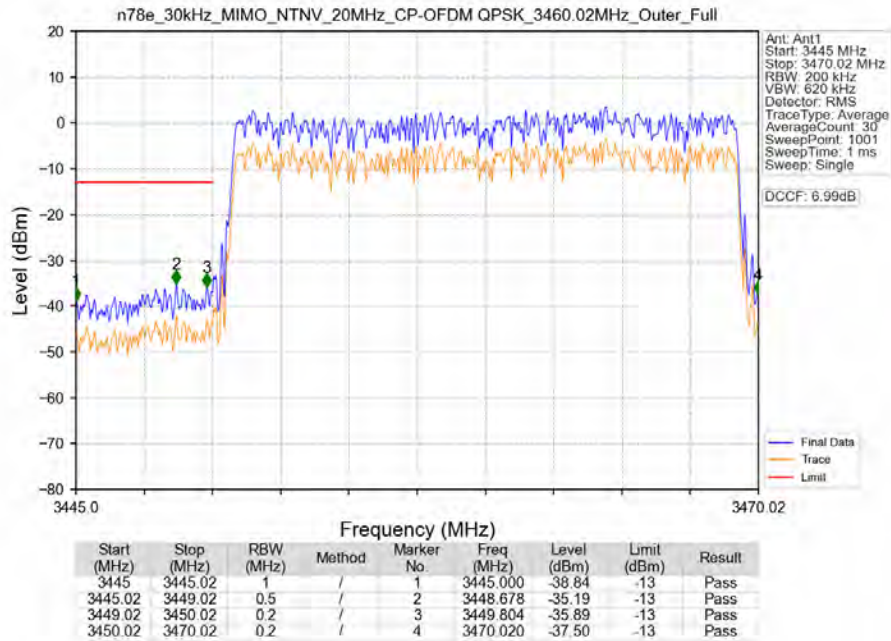


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Rev.: 01

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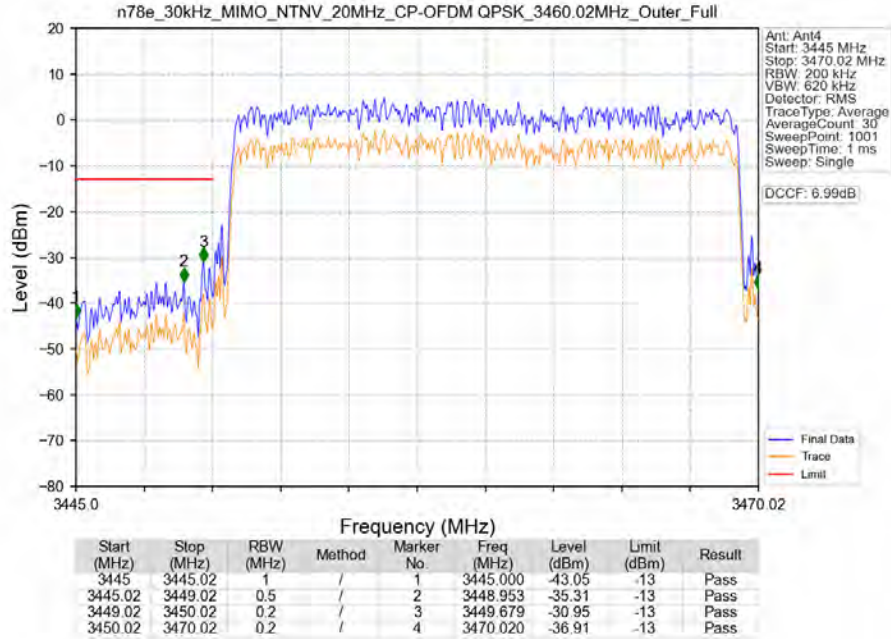
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Report No.: SZCR240100038409

Rev.: 01

Page: 1088 of 1458

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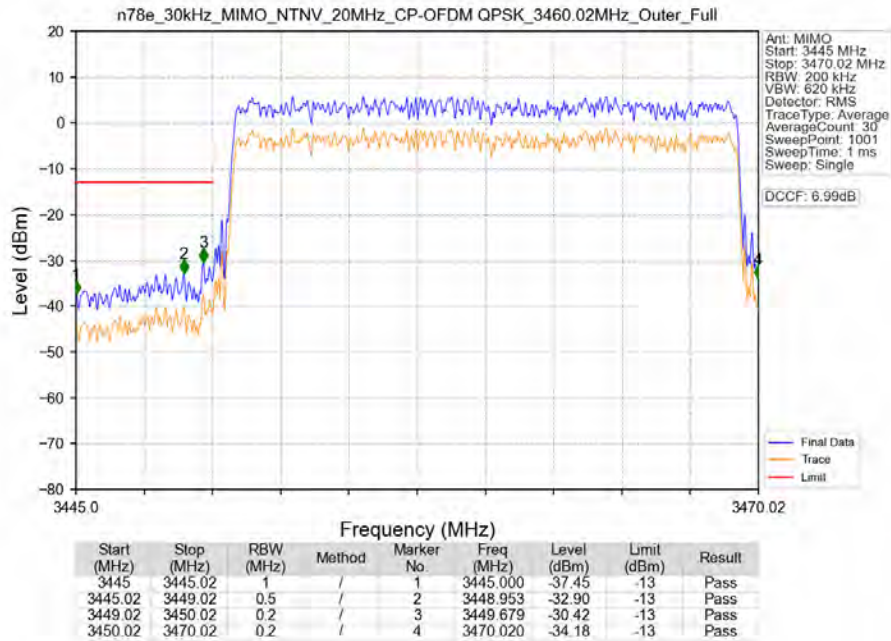


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Report No.: SZCR240100038409

Rev.: 01

Page: 1089 of 1458



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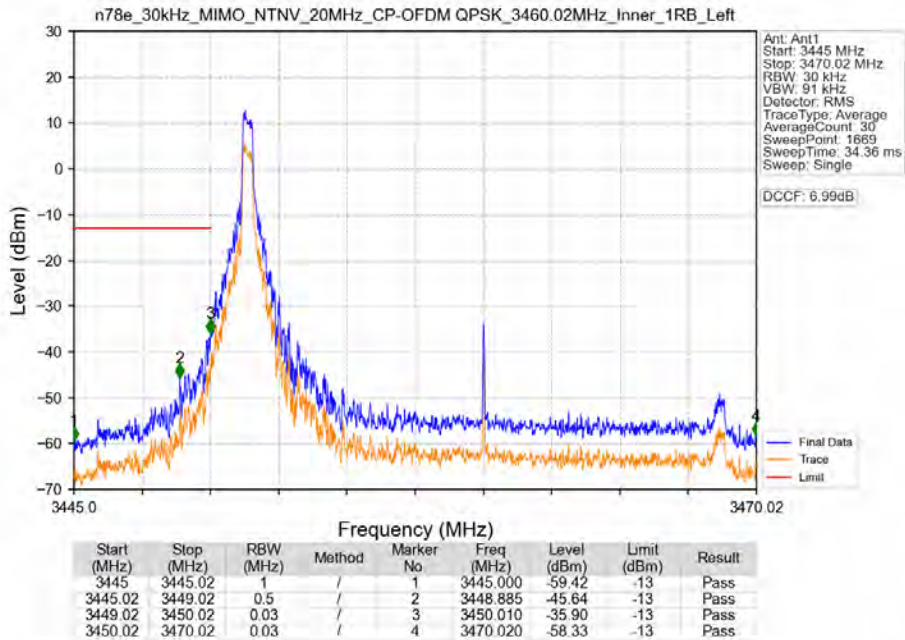
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1090 of 1458

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n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3460.02MHz_Inner_1RB_Left



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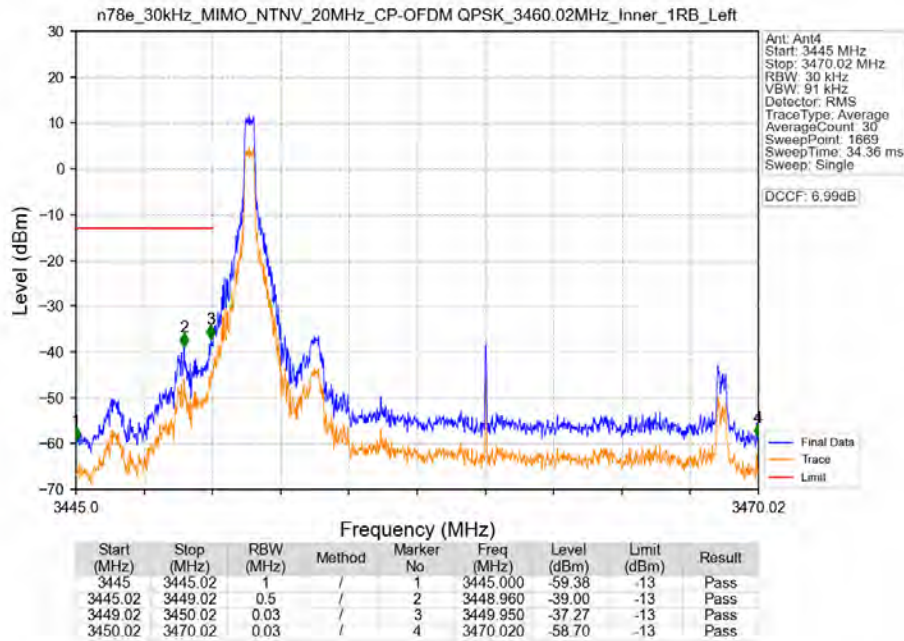


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1091 of 1458



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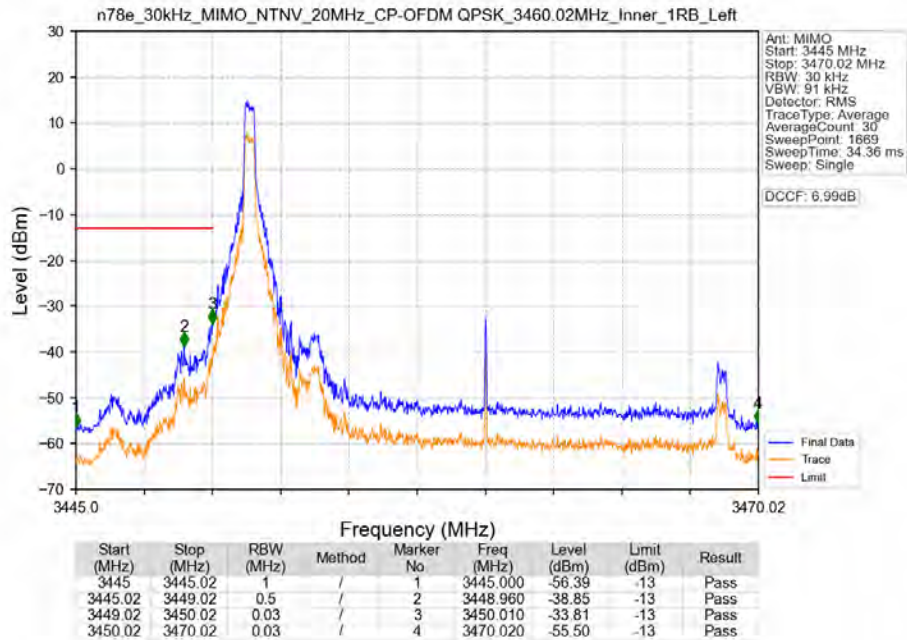
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1092 of 1458

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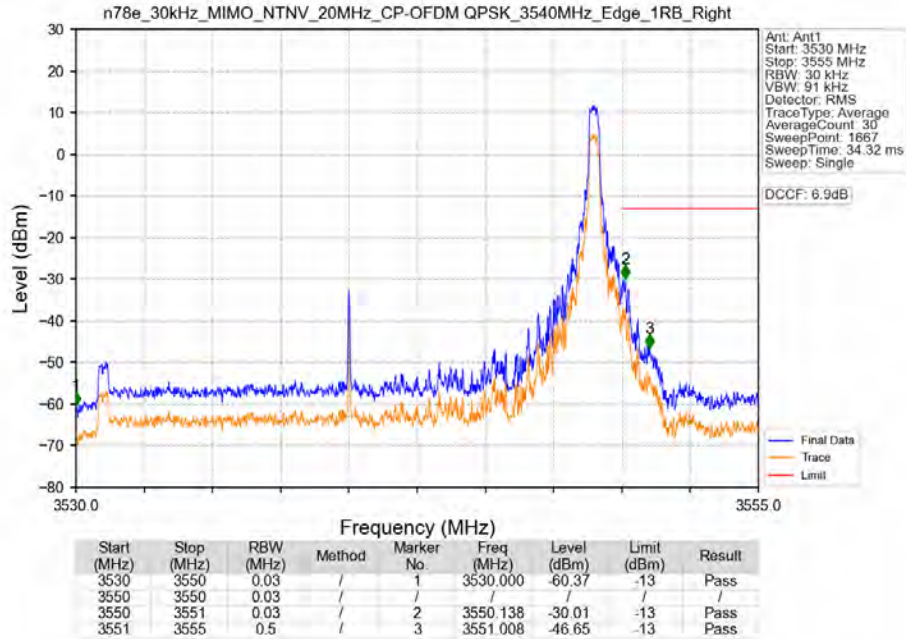


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1093 of 1458



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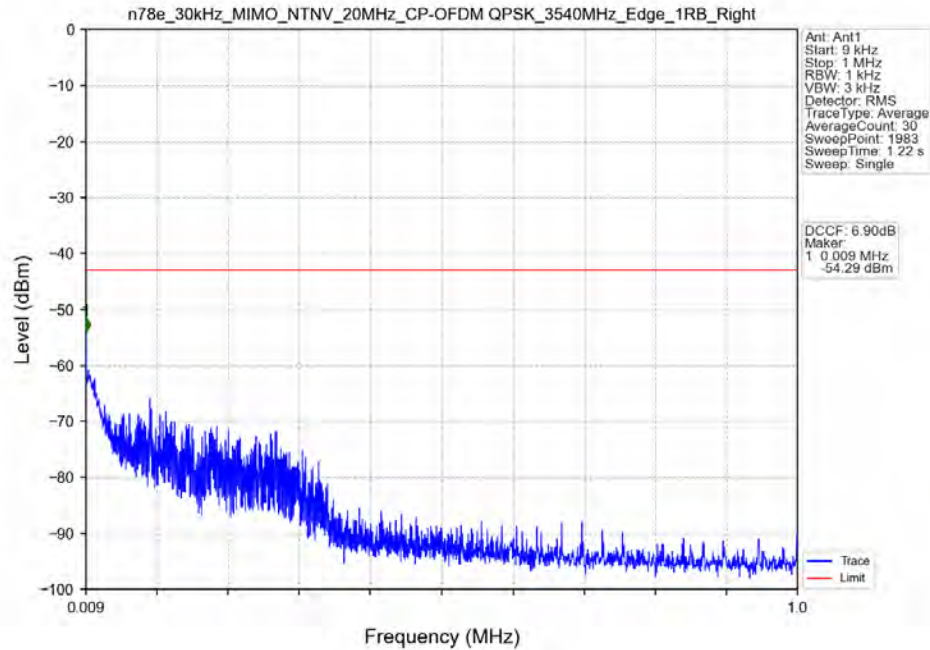
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Report No.: SZCR240100038409

Rev.: 01

Page: 1094 of 1458

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n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3540MHz_Edge_1RB_Right



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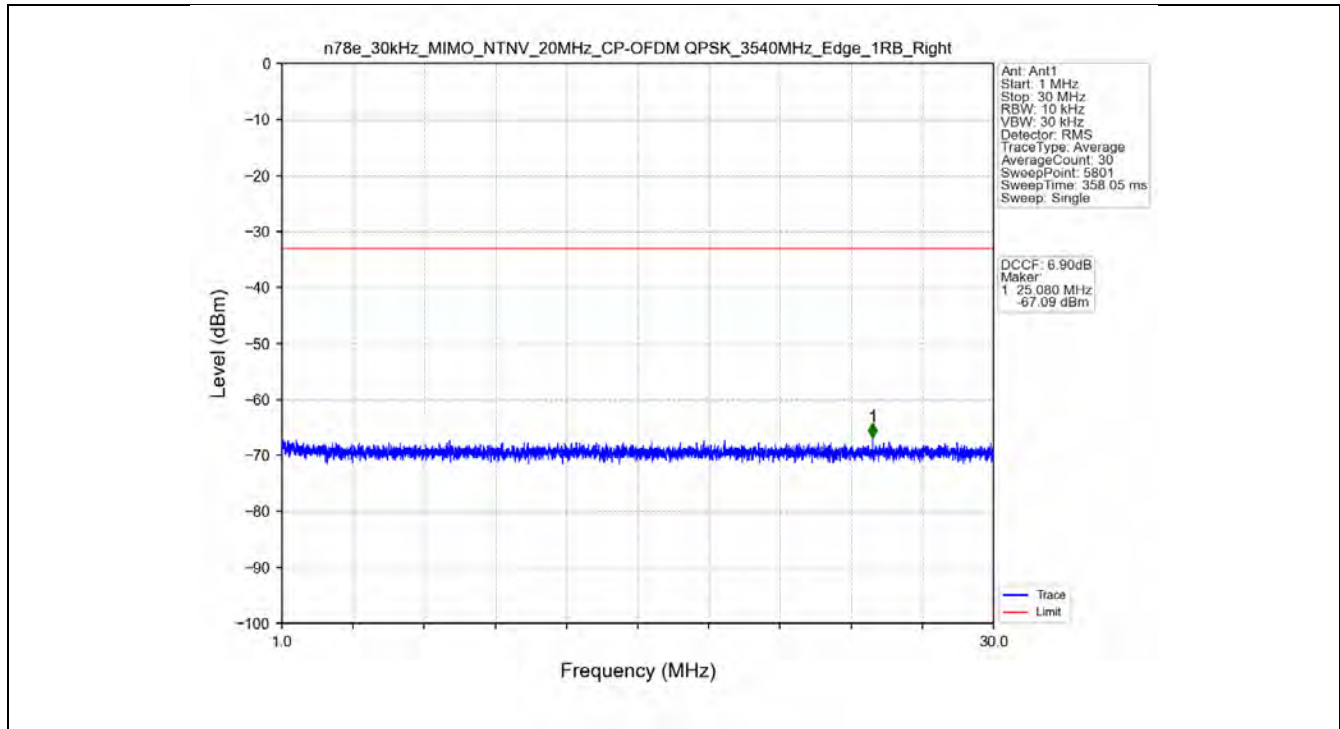


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Report No.: SZCR240100038409

Rev.: 01

Page: 1095 of 1458



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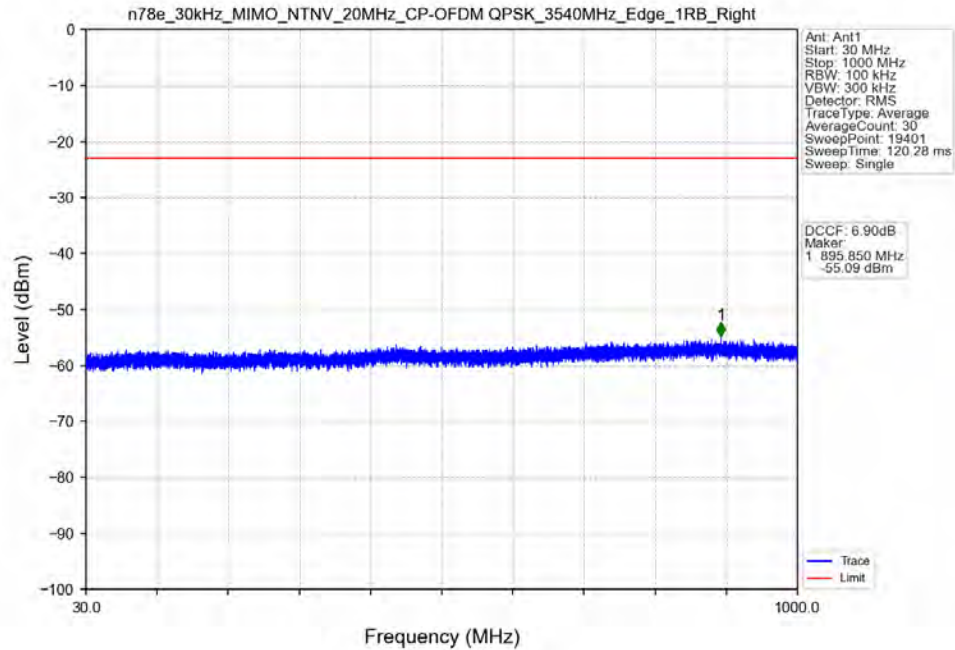
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Report No.: SZCR240100038409

Rev.: 01

Page: 1096 of 1458

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n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3540MHz_Edge_1RB_Right



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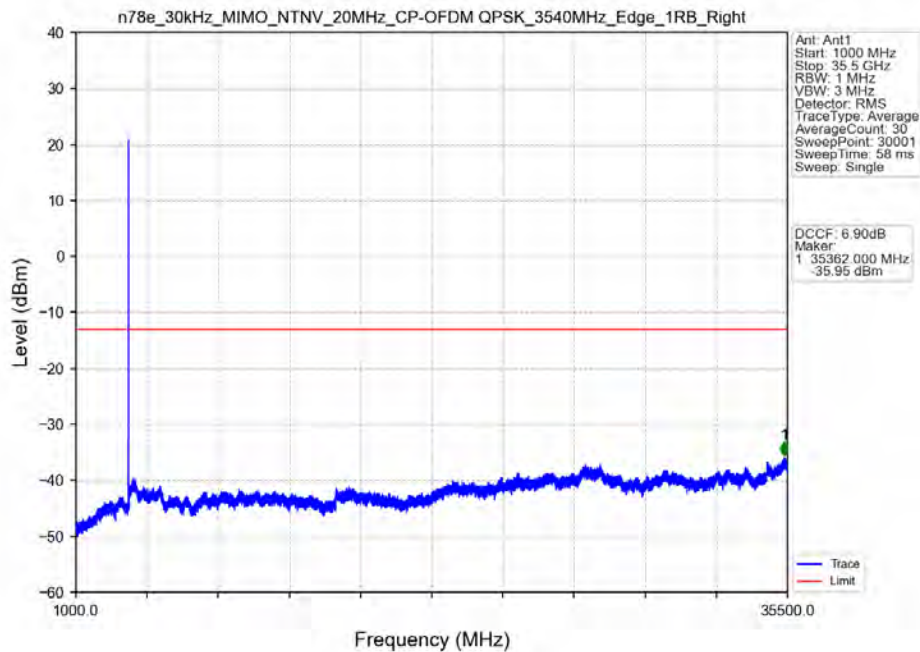


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Report No.: SZCR240100038409

Rev.: 01

Page: 1097 of 1458



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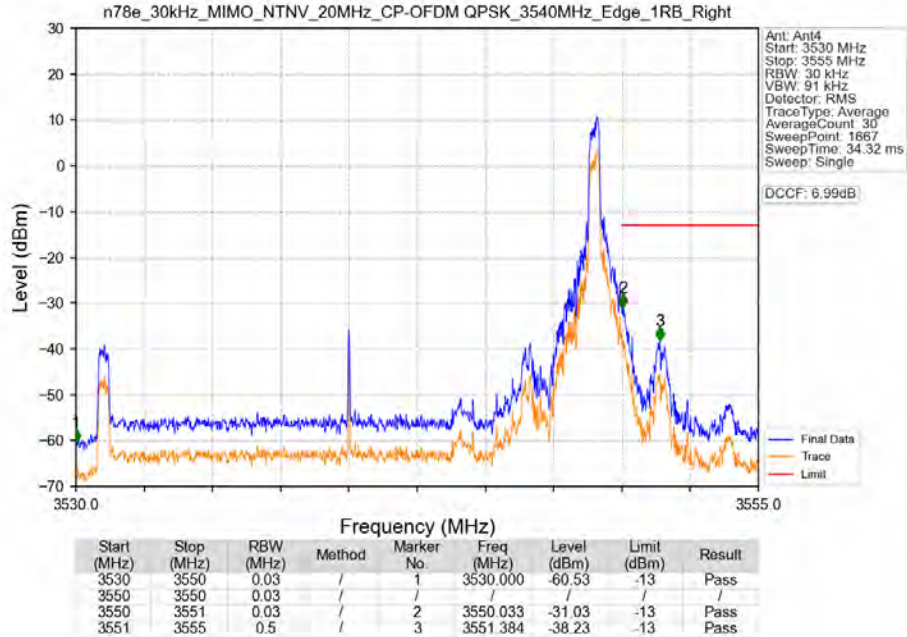
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Report No.: SZCR240100038409

Rev.: 01

Page: 1098 of 1458

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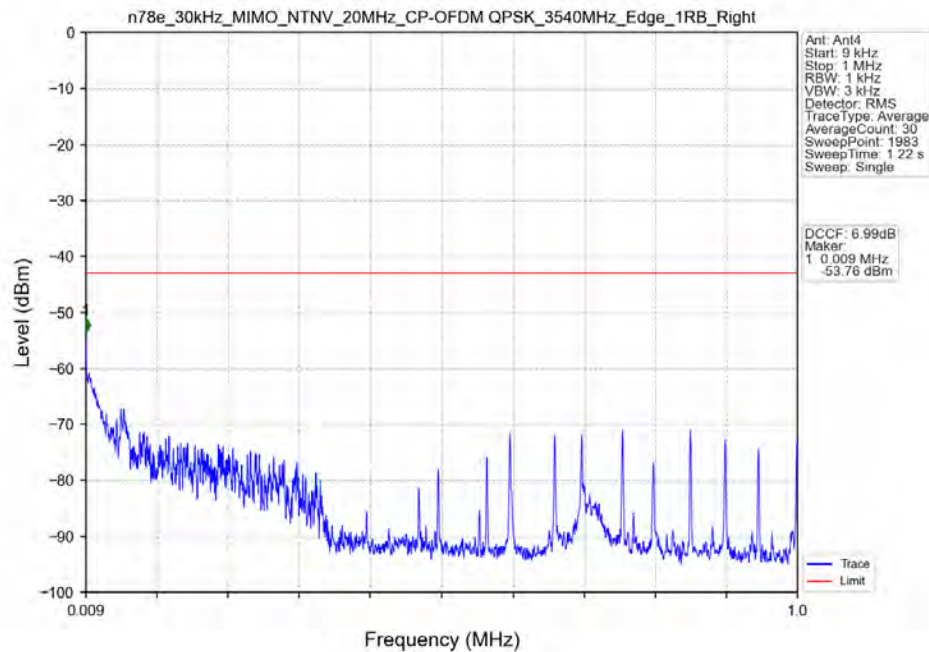


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Rev.: 01

Page: 1099 of 1458



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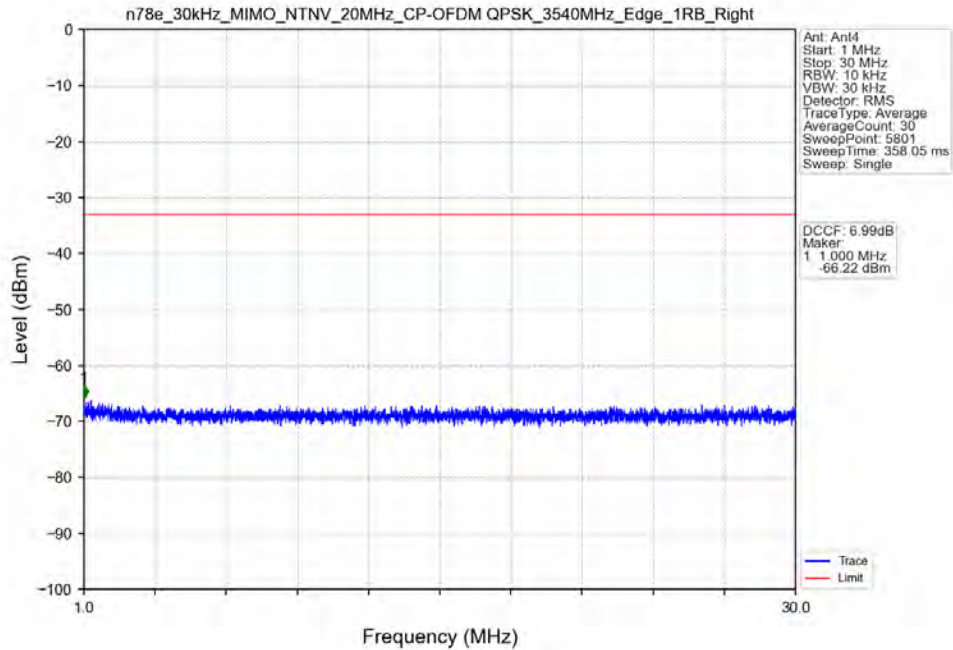
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Report No.: SZCR240100038409

Rev.: 01

Page: 1100 of 1458

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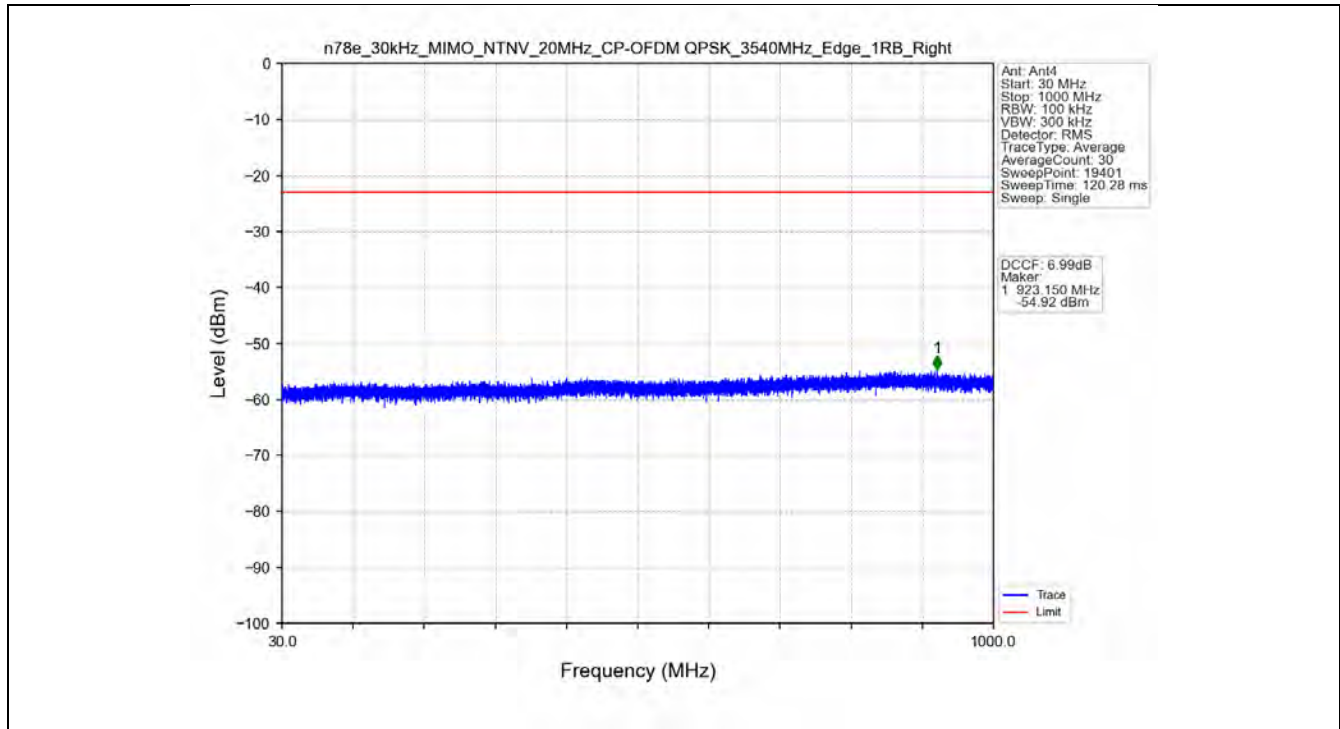


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Report No.: SZCR240100038409

Rev.: 01

Page: 1101 of 1458



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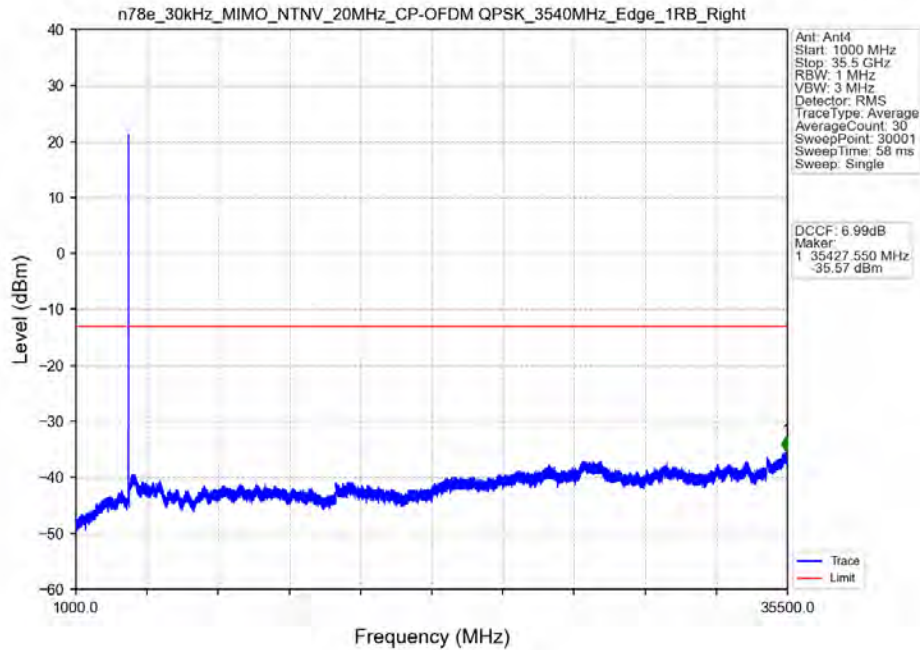
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Report No.: SZCR240100038409

Rev.: 01

Page: 1102 of 1458

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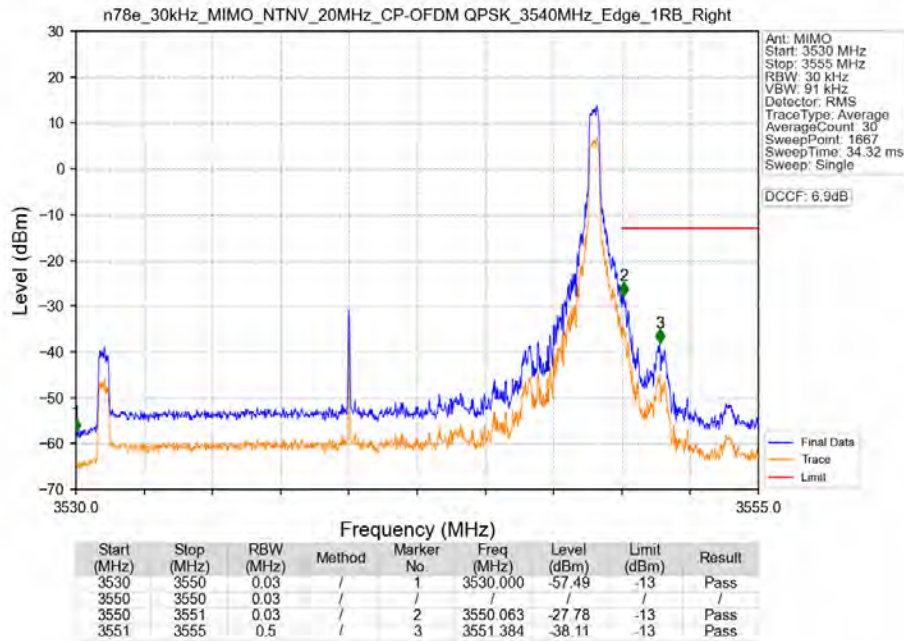


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Report No.: SZCR240100038409

Rev.: 01

Page: 1103 of 1458



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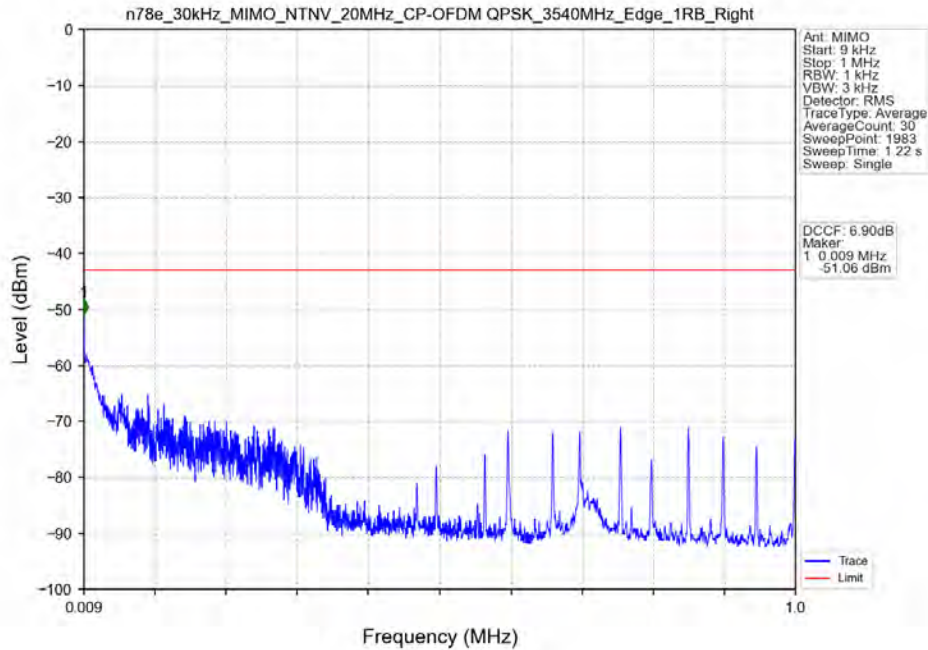
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Report No.: SZCR240100038409

Rev.: 01

Page: 1104 of 1458

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n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3540MHz_Edge_1RB_Right



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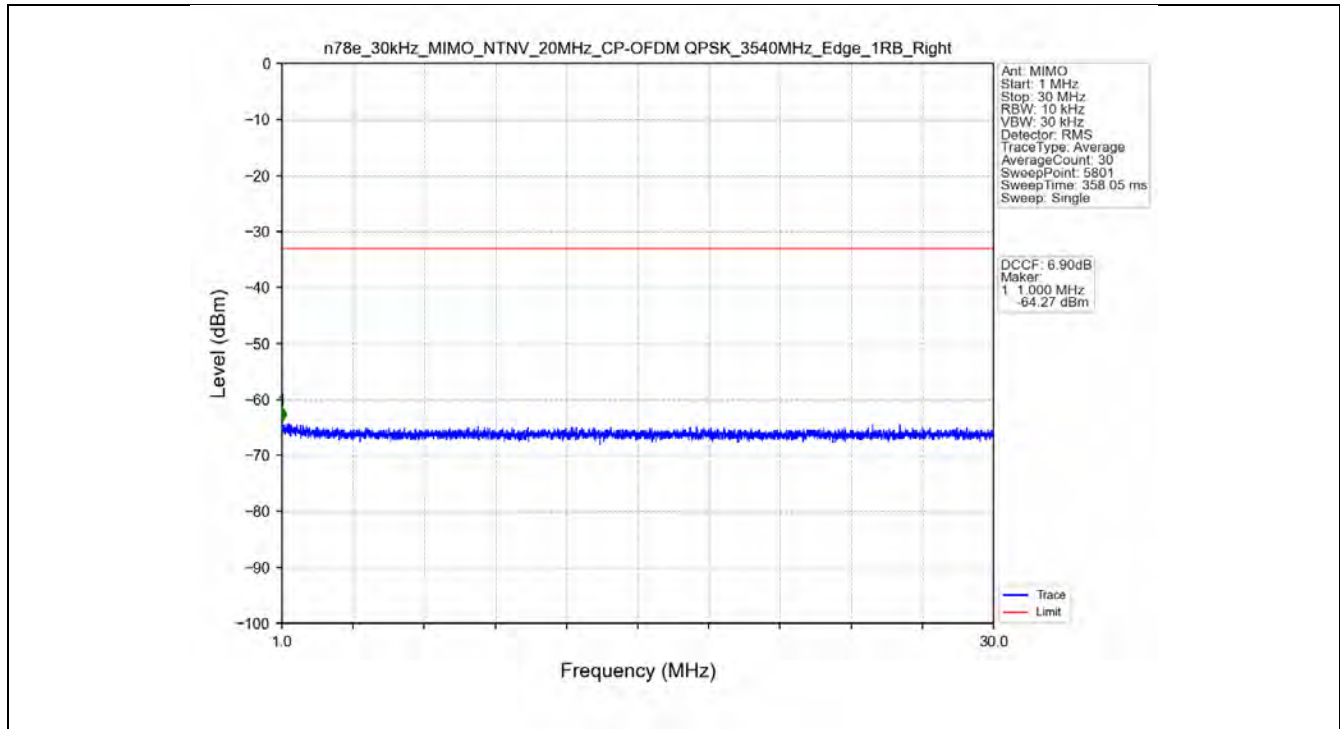


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1105 of 1458



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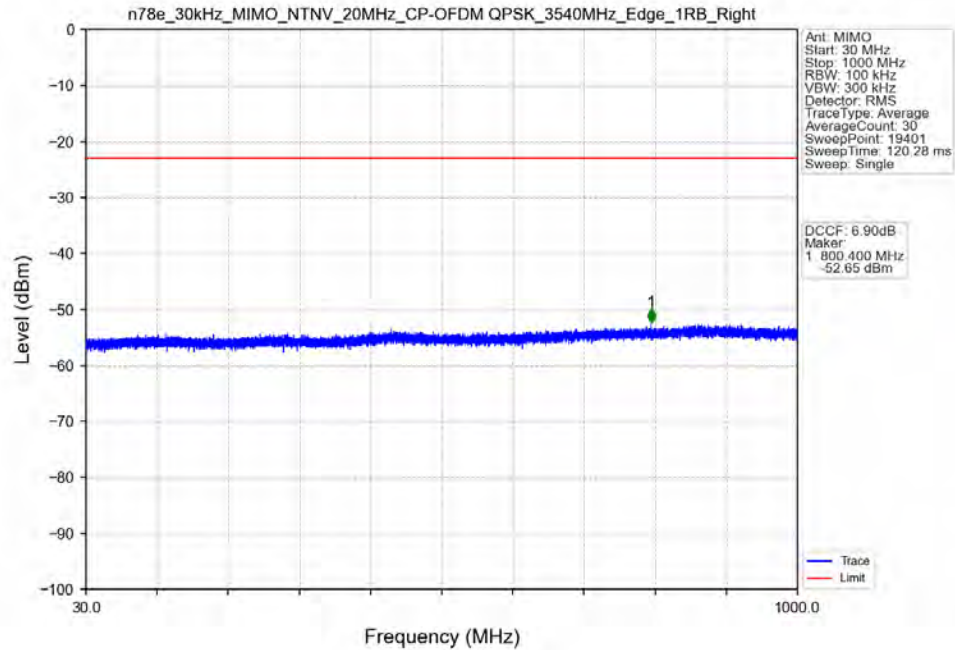
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1106 of 1458

n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3540MHz_Edge_1RB_Right



n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3540MHz_Edge_1RB_Right



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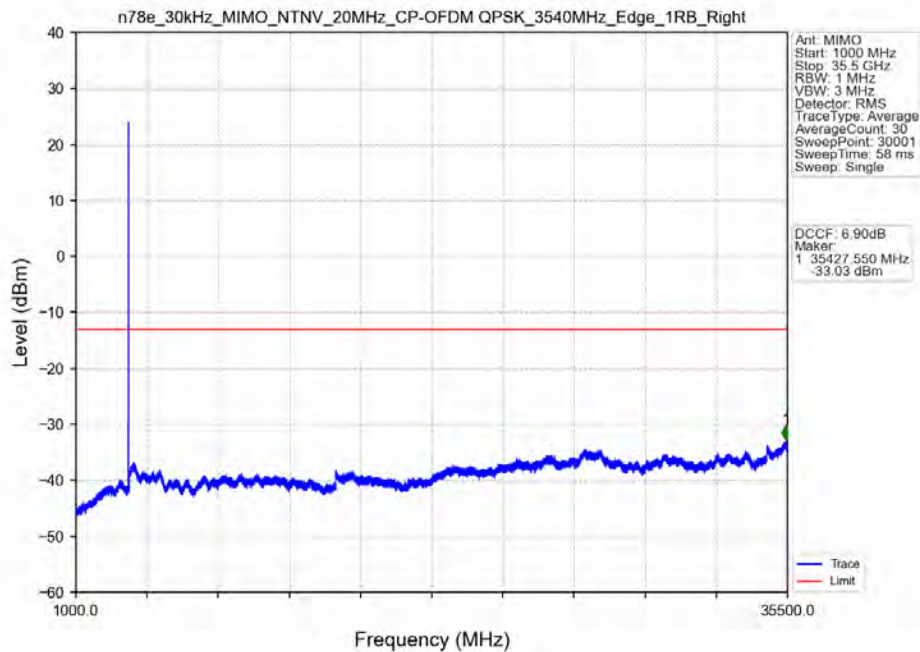


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Report No.: SZCR240100038409

Rev.: 01

Page: 1107 of 1458



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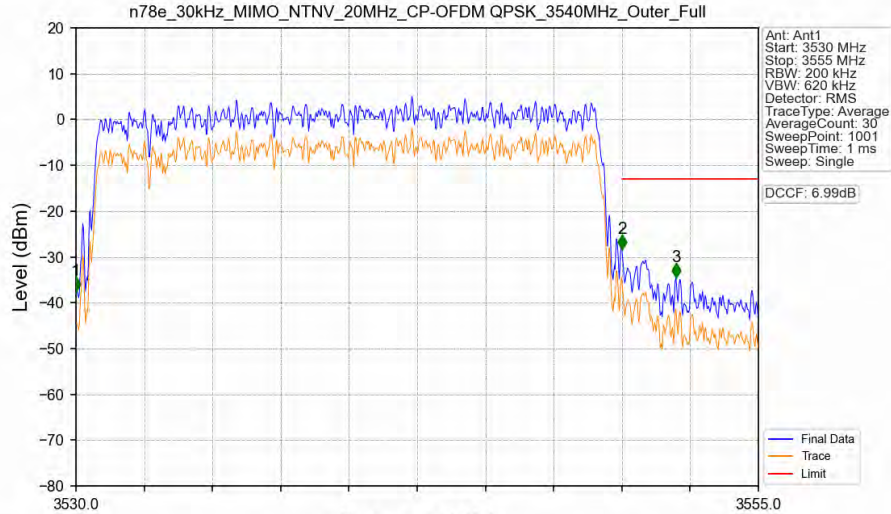
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1108 of 1458

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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3530	3550	0.2	/	1	3530.000	-37.41	-13	Pass
3550	3550	0.2	/	/	/	/	/	/
3550	3551	0.2	/	2	3550.000	-28.25	-13	Pass
3551	3555	0.5	/	3	3551.975	-34.43	-13	Pass

n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3540MHz_Outer_Full



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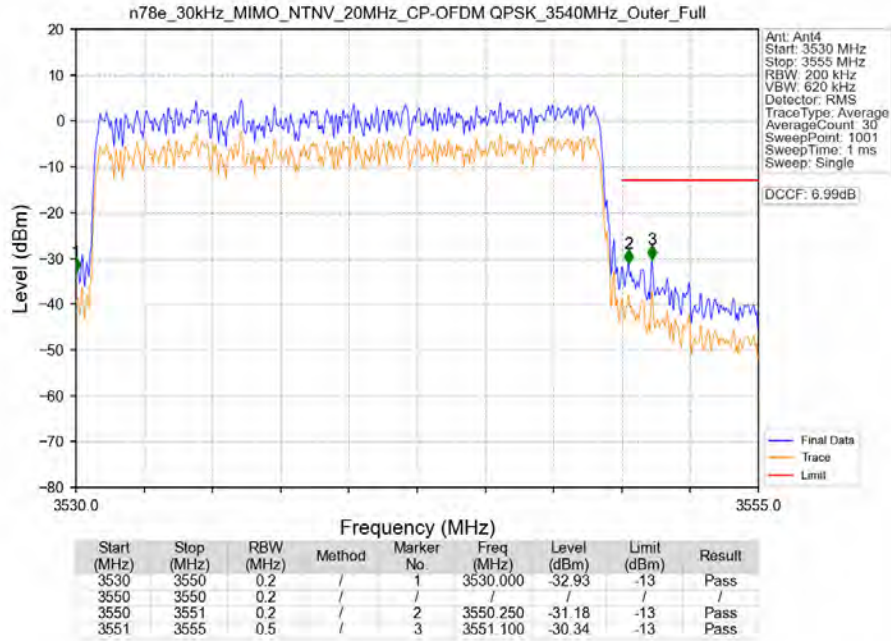


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Rev.: 01

Page: 1109 of 1458



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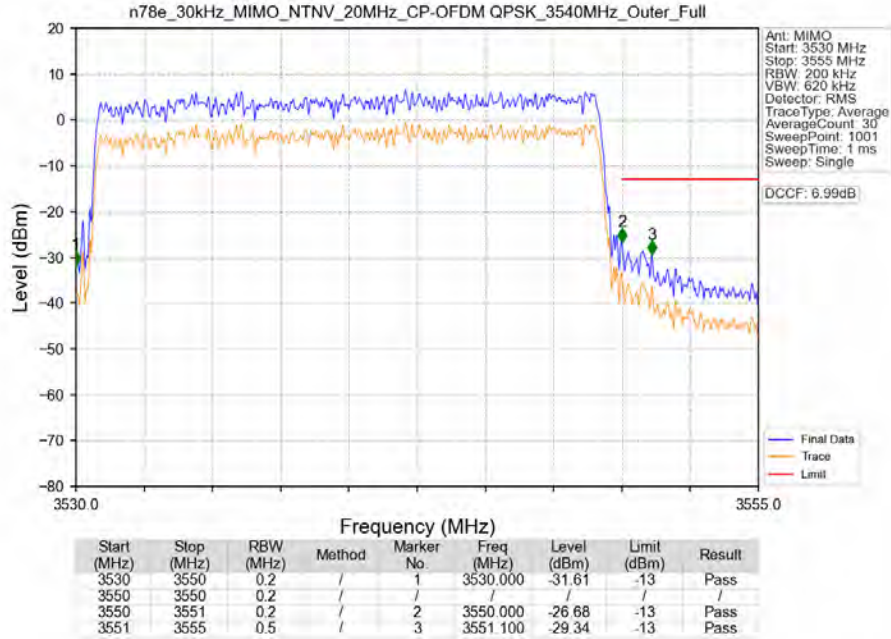
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Report No.: SZCR240100038409

Rev.: 01

Page: 1110 of 1458

n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3540MHz_Outer_Full



n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3540MHz_Inner_1RB_Right



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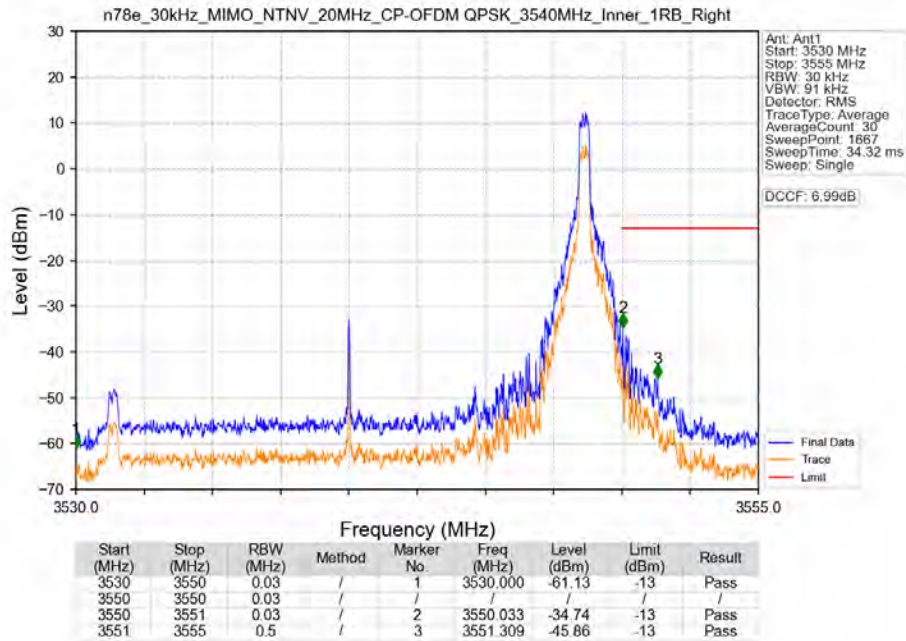


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Report No.: SZCR240100038409

Rev.: 01

Page: 1111 of 1458



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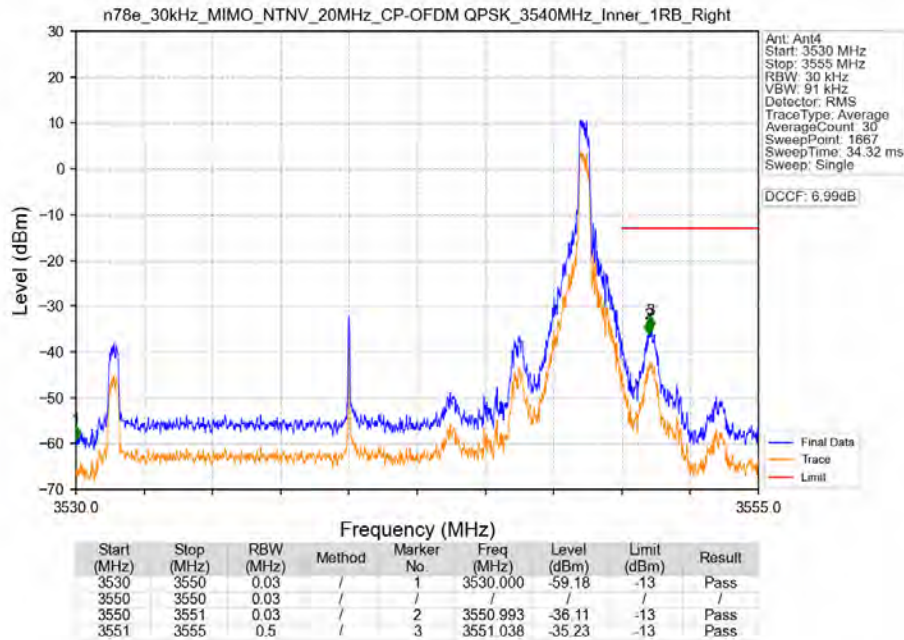
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Report No.: SZCR240100038409

Rev.: 01

Page: 1112 of 1458

n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3540MHz_Inner_1RB_Right



n78e_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3540MHz_Inner_1RB_Right



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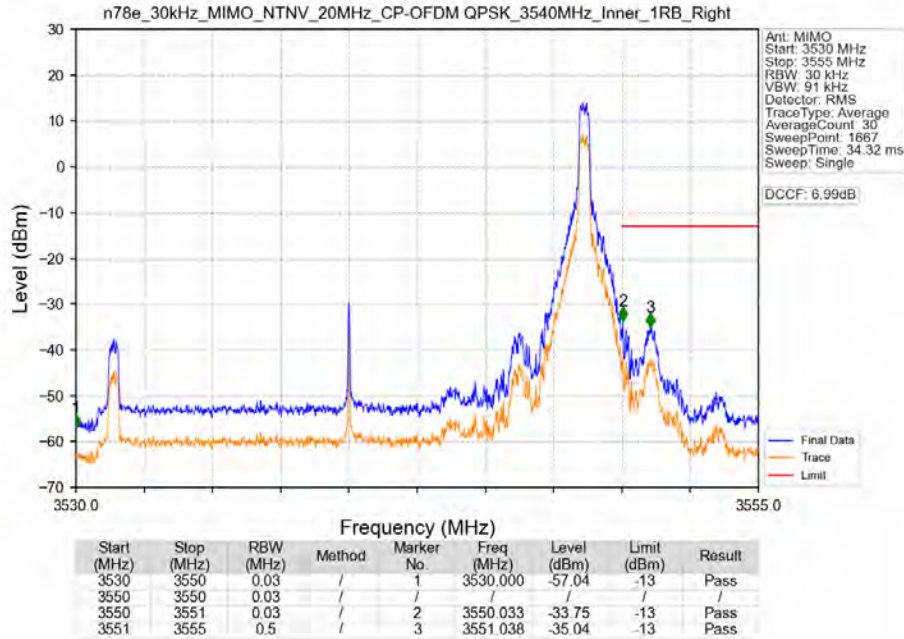


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Rev.: 01

Page: 1113 of 1458



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Report No.: SZCR240100038409

Rev.: 01

Page: 1114 of 1458

5.11 30k_MIMO_30MHz_NTNV

5.11.1 Test Result

5G NR n78e SCS=30kHz MIMO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3465	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3534.99	Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Inner_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass



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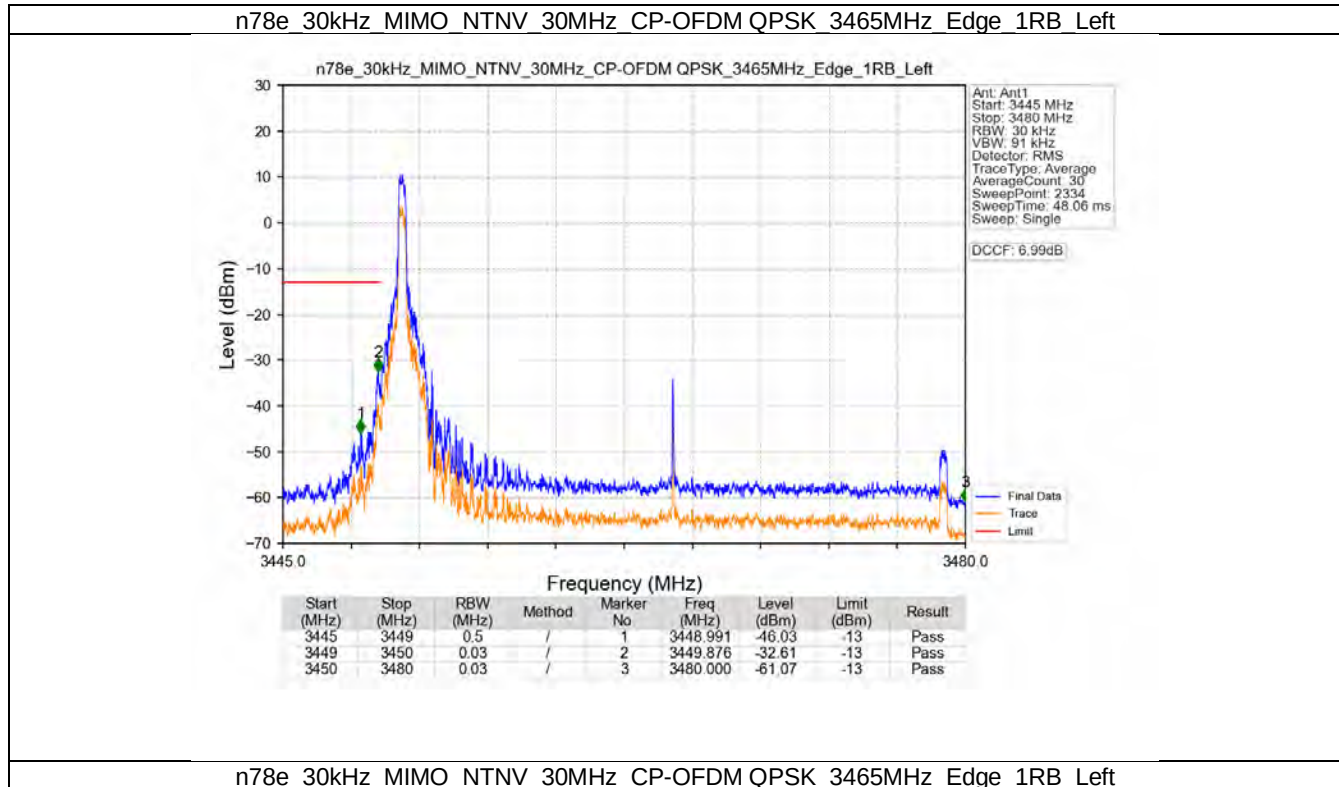
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Rev.: 01

Page: 1115 of 1458

5.11.2 Test Graph



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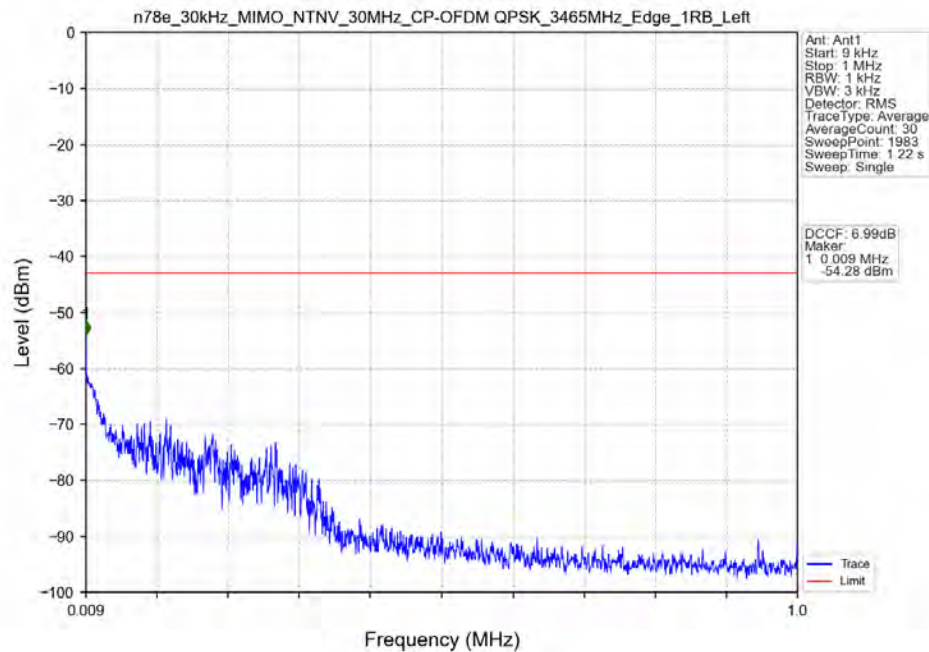


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Report No.: SZCR240100038409

Rev.: 01

Page: 1116 of 1458



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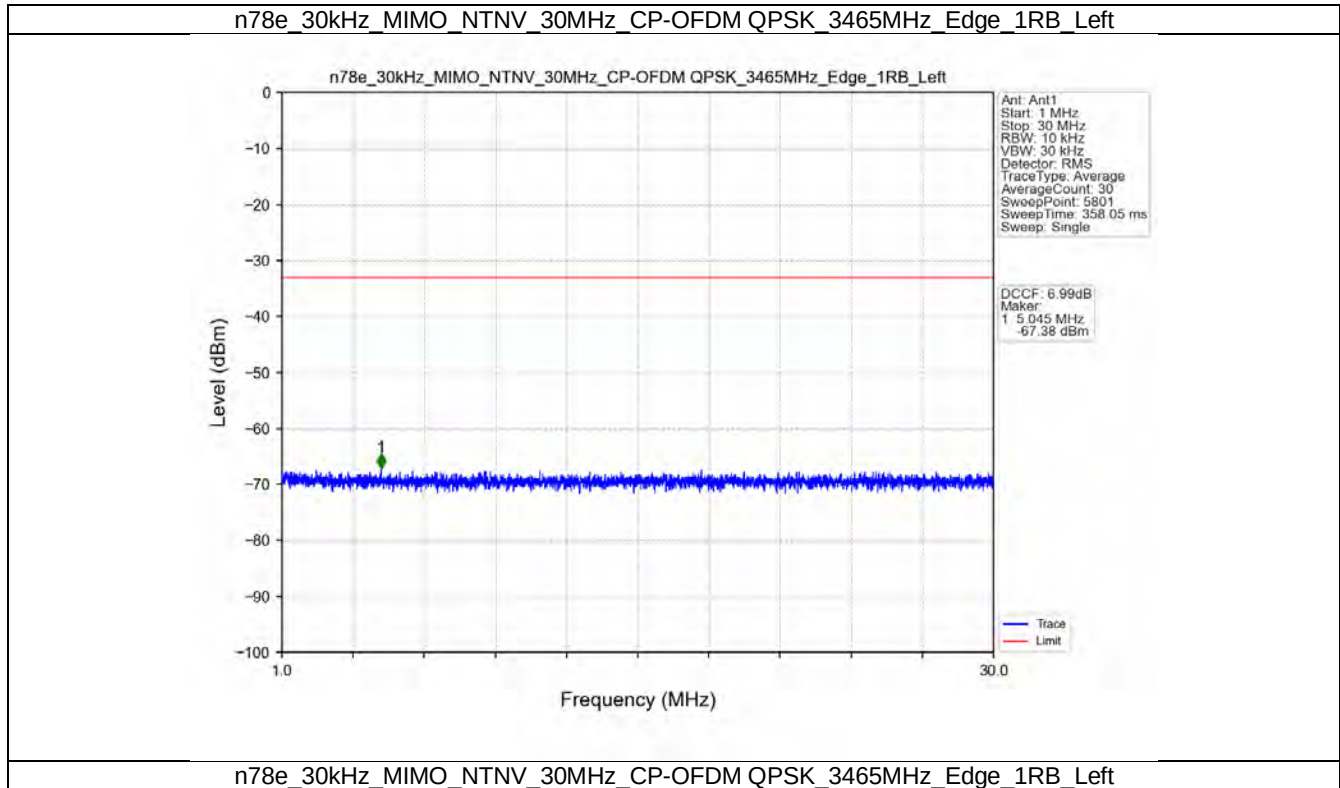


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Report No.: SZCR240100038409

Rev.: 01

Page: 1117 of 1458



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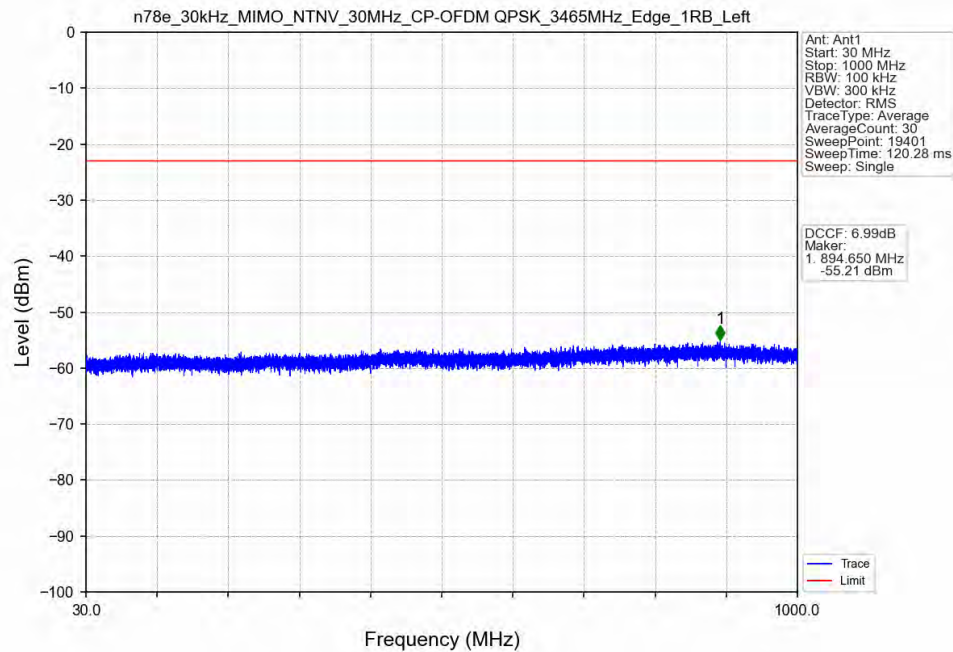


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Report No.: SZCR240100038409

Rev.: 01

Page: 1118 of 1458



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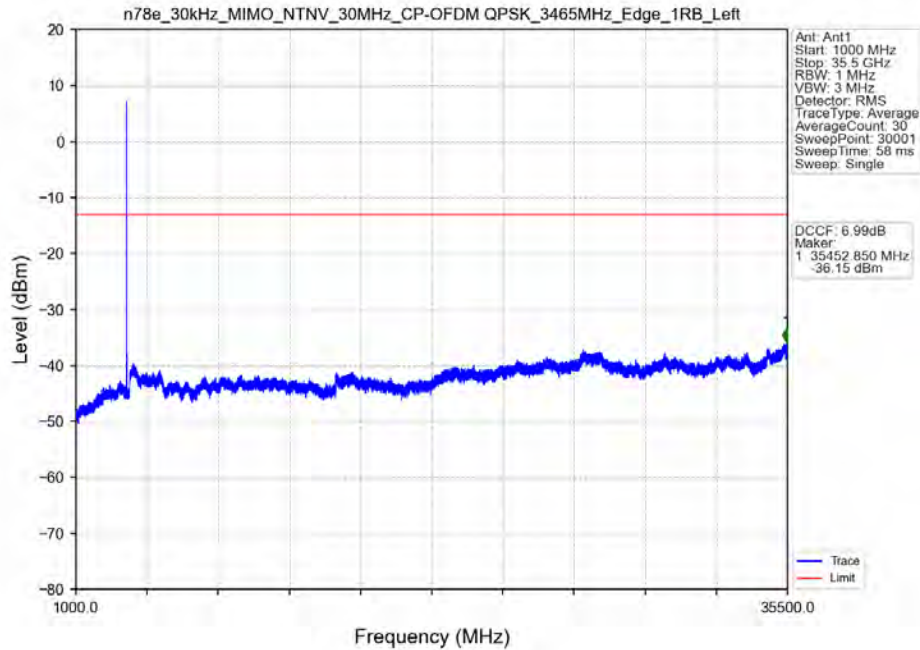
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1119 of 1458

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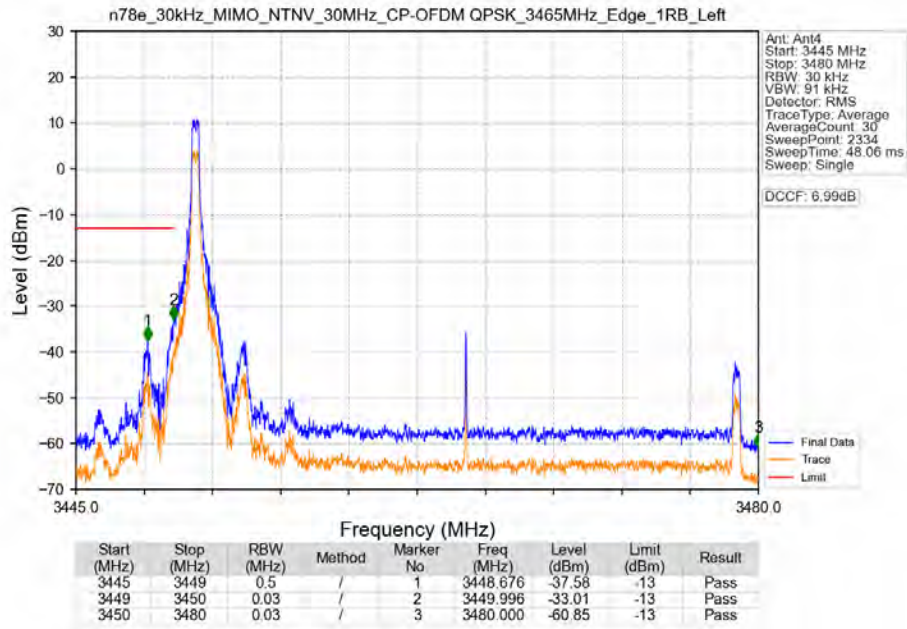


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Report No.: SZCR240100038409

Rev.: 01

Page: 1120 of 1458



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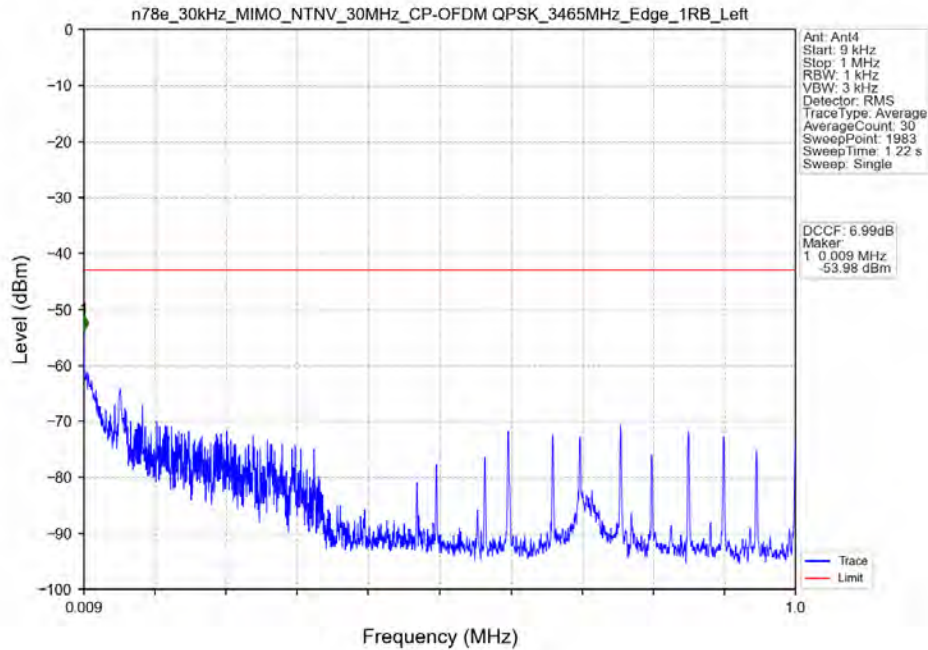
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZCR240100038409

Rev.: 01

Page: 1121 of 1458

n78e_30kHz_MIMO_NTNV_30MHz_CP-OFDM QPSK_3465MHz_Edge_1RB_Left



n78e_30kHz_MIMO_NTNV_30MHz_CP-OFDM QPSK_3465MHz_Edge_1RB_Left



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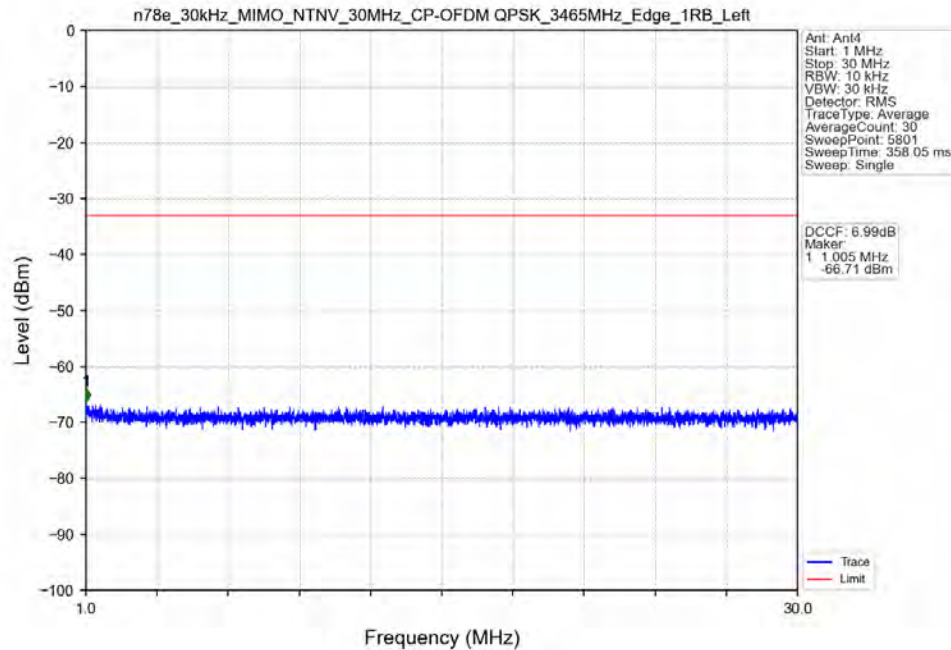


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Report No.: SZCR240100038409

Rev.: 01

Page: 1122 of 1458



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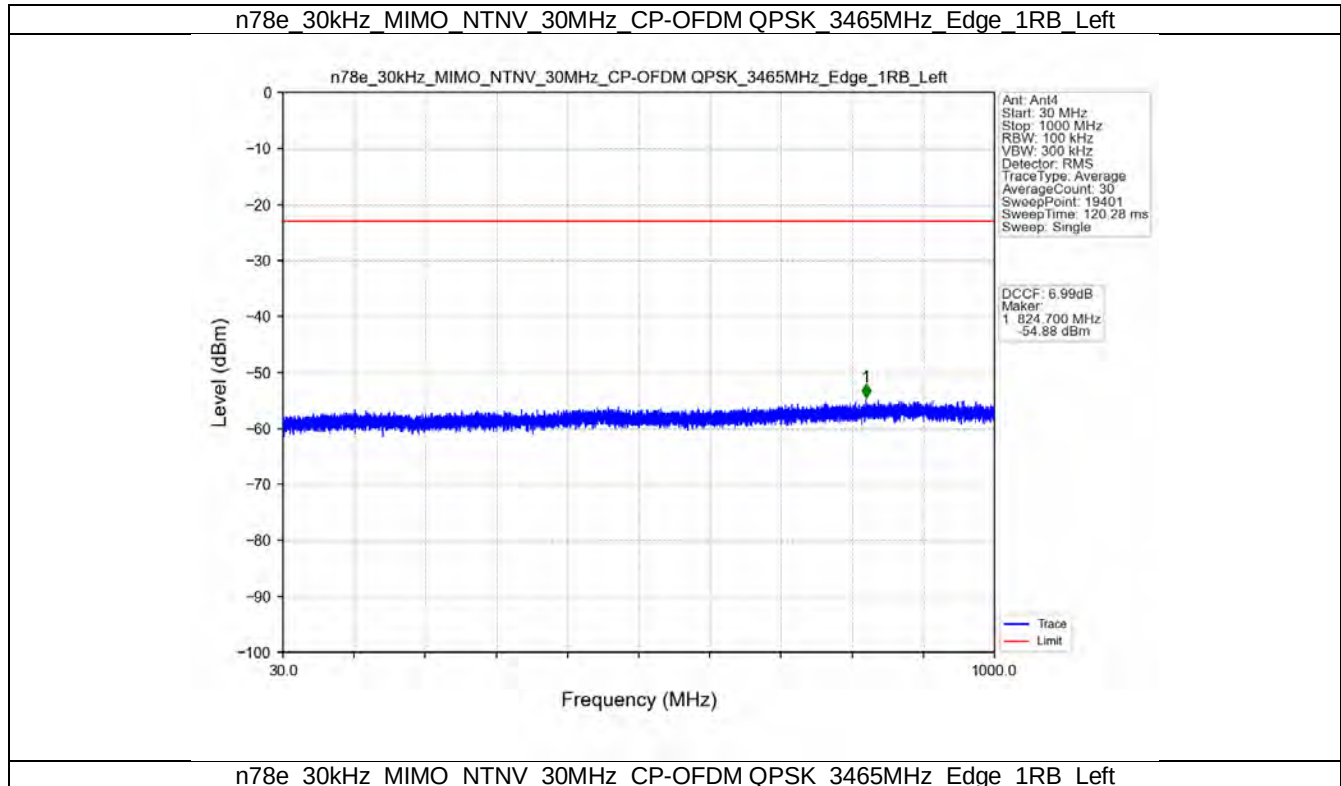


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Rev.: 01

Page: 1123 of 1458



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