

Device Under Test: 20240930_N25_WB_40MHz_DFTS_QPSK_RB1-1_ch376500

Bandwidth Wideband

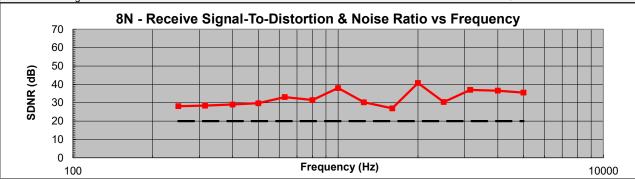
Test Date: 2024-10-01

Receive Volume Control Performance

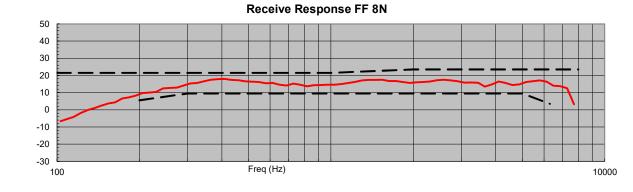
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.92 dB	info only		
	Recv conversational gain 8N	16.92 dB	6.00	PASS	

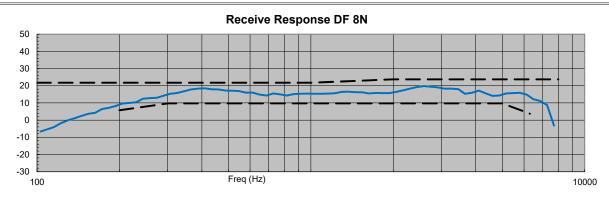
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference		
Clause 5.2	Recv PN-SDNR 8N	7 dB	Absolute Limits	PASS			
Note: SDNR incl	Note: SDNR includes noise and distortion products.						
Stimulus level			-20 dBPa				
Sentence conditi	ioning		-20 dBPa				
Short conditioning	ng		-20 dBPa				



TIA-5050	Test	Margin	Limits	Result	Reference	
Clause 5.3	Recv resp FF 8N	3.54 dB	Floating Limits	PASS		
	Recv resp DF 8N	3.3 dB	Floating Limits	PASS		
Receive Response FF 8N						
50 F						







Device Under Test: 20240930_N30_WB_10MHz_DFTS_QPSK_RB1-1_ch462000

Bandwidth Wideband

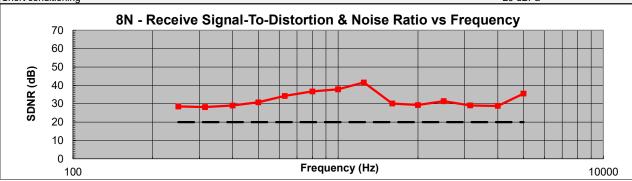
Test Date: 2024-10-01

Receive Volume Control Performance

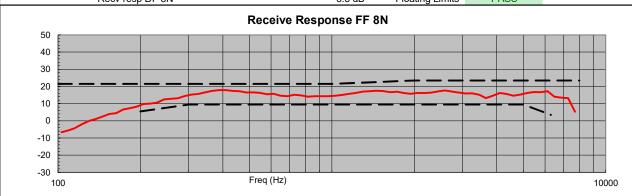
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.92 dB	info only		
	Recv conversational gain 8N	16.92 dB	6.00	PASS	

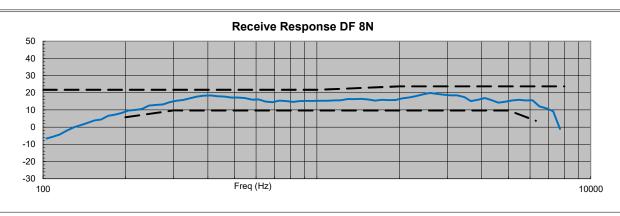
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference		
Clause 5.2	Recv PN-SDNR 8N	8.2 dB	Absolute Limits	PASS			
Note: SDNR incl	Note: SDNR includes noise and distortion products.						
Stimulus level			-20 dBPa				
Sentence conditi	ioning		-20 dBPa				
Short conditioning	ng		-20 dBPa				



TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.6 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.3 dB	Floating Limits	PASS	







Bandwidth Wideband

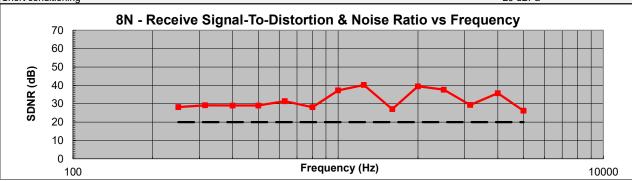
Test Date: 2024-09-30

Receive Volume Control Performance

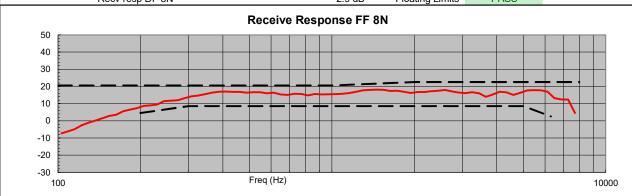
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.88 dB	info only		
	Recv conversational gain 8N	16.88 dB	6.00	PASS	

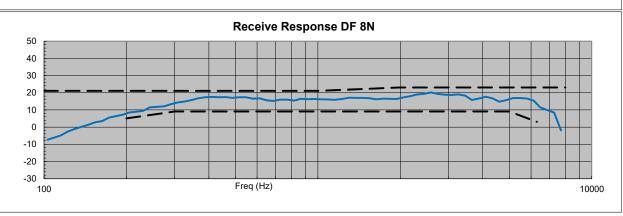
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference		
Clause 5.2	Recv PN-SDNR 8N	6.2 dB	Absolute Limits	PASS			
Note: SDNR incli	Note: SDNR includes noise and distortion products.						
Stimulus level			-20 dBPa				
Sentence conditi	oning		-20 dBPa				
Short conditionin	ıg		-20 dBPa				



TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.48 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.9 dB	Floating Limits	PASS	







Device Under Test: 20240930_N70_WB_15MHz_DFTS_QPSK_RB1-1_ch340500

Bandwidth Wideband

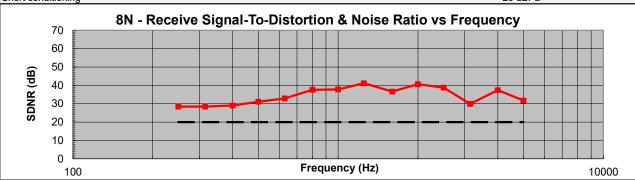
Test Date: 2024-10-01

Receive Volume Control Performance

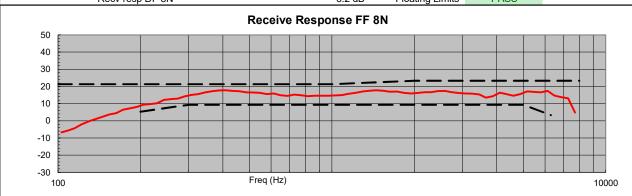
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.93 dB	info only		
	Recv conversational gain 8N	16.93 dB	6.00	PASS	

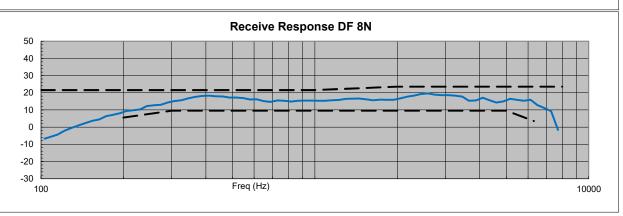
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference		
Clause 5.2	Recv PN-SDNR 8N	8.4 dB	Absolute Limits	PASS			
Note: SDNR incl	Note: SDNR includes noise and distortion products.						
Stimulus level			-20 dBPa				
Sentence conditi	ioning		-20 dBPa				
Short conditioning	ng		-20 dBPa				



TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.51 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.2 dB	Floating Limits	PASS	







Device Under Test: 20240930_N71_WB_20MHz_DFTS_QPSK_RB1-1_ch136100

Bandwidth Wideband

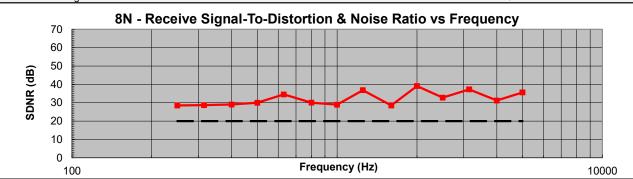
Test Date: 2024-10-01

Receive Volume Control Performance

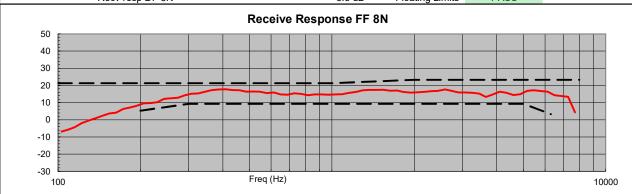
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.91 dB	info only		
	Recv conversational gain 8N	16.91 dB	6.00	PASS	

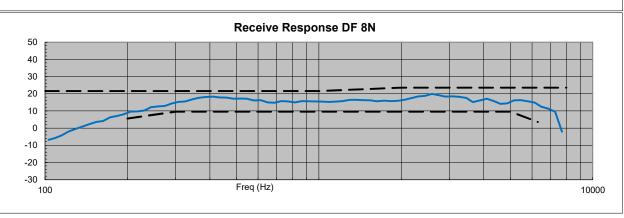
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference	
Clause 5.2	Recv PN-SDNR 8N	8.5 dB	Absolute Limits	PASS		
Note: SDNR includes noise and distortion products.						
Stimulus level			-20 dBPa			
Sentence conditio	ning		-20 dBPa			
Short conditioning			-20 dBPa			



TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.52 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.3 dB	Floating Limits	PASS	







Device Under Test: 20240927_N41_WB_100MHz_DFTS_QPSK_RB1_1_ch518598

Bandwidth Wideband

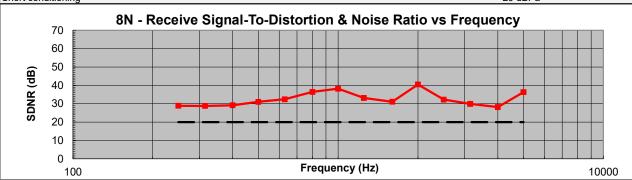
Test Date: 2024-09-27

Receive Volume Control Performance

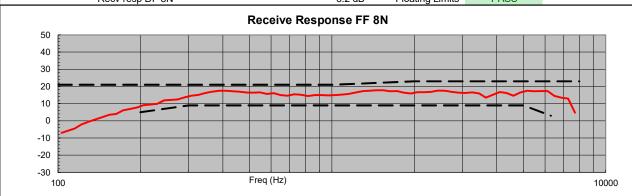
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.88 dB	info only		
	Recv conversational gain 8N	16.88 dB	6.00	PASS	

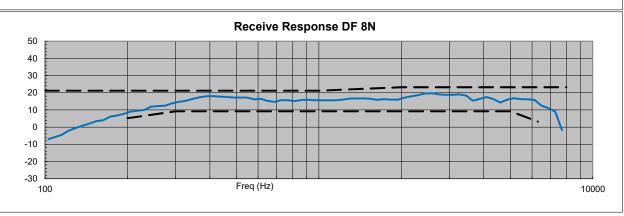
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference		
Clause 5.2	Recv PN-SDNR 8N	8.2 dB	Absolute Limits	PASS			
Note: SDNR includes noise and distortion products.							
Stimulus level			-20 dBPa				
Sentence conditi	ioning		-20 dBPa				
Short conditioning	ng			-20 dBPa			



TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.51 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.2 dB	Floating Limits	PASS	







Device Under Test: 20240927_N48_WB_40MHz_DFTS_QPSK_RB1_1_ch641666

Bandwidth Wideband

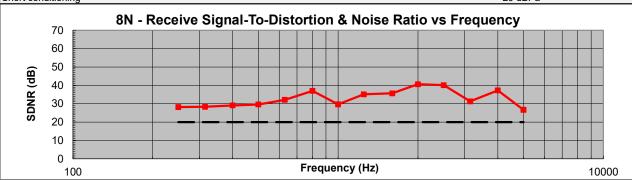
Test Date: 2024-09-27

Receive Volume Control Performance

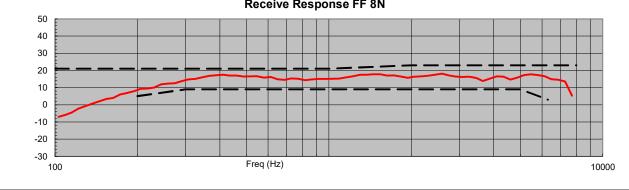
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.89 dB	info only		
	Recy conversational gain 8N	16.89 dB	6.00	PASS	

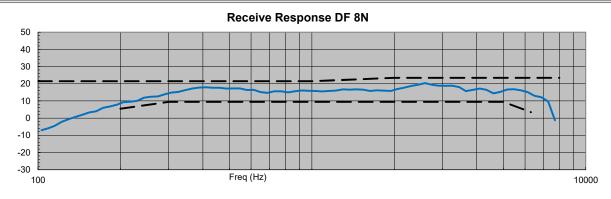
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference	
Clause 5.2	Recv PN-SDNR 8N	6.7 dB	Absolute Limits	PASS		
Note: SDNR includes noise and distortion products.						
Stimulus level			-20 dBPa			
Sentence conditi	ioning		-20 dBPa			
Short conditioning	ng			-20 dBPa		



TIA-5050	Test	Margin	Limits	Result	Reference		
Clause 5.3	Recv resp FF 8N	3.58 dB	Floating Limits	PASS			
	Recv resp DF 8N	3.1 dB	Floating Limits	PASS			
	Receive Response FF 8N						
50 E							







Device Under	20240927_N77_WB_100MHz_DFTS_QPSK_RB1_1_ch650000
Test.	

Bandwidth Wideband

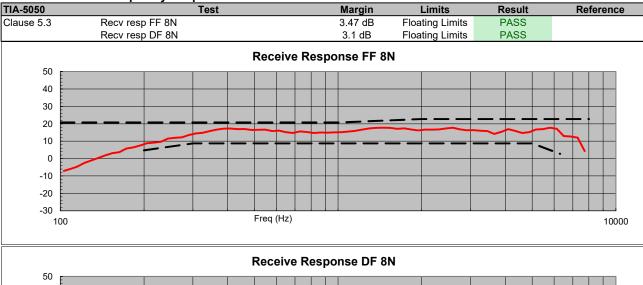
Test Date: 2024-09-27

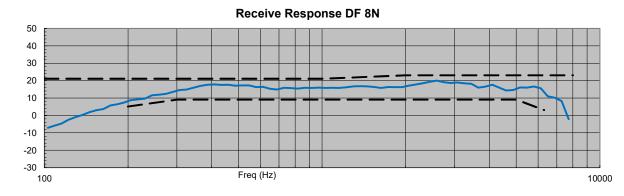
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.85 dB	info only		
	Recy conversational gain 8N	16.85 dB	6.00	PASS	

Receive Distortion and Noise Performance

ΓIA-5050			Tes	st			Ma	rgin	Limits	Result	Reference
Clause 5.2	2	Recv PN-SD	NR 8N				8.	1 dB	Absolute Limits	PASS	
Note: SDN	NR inclu	udes noise and di	stortion prod	ucts.							
		8N - R	Receive S	ignal-	To-D	istor	ion &	Nois	e Ratio vs Fre	equency	
	70 E										
	60										
_	50										
SDNR (dB)	40										
≅	1										
N N	30		-	_							
ဟ	20			-+	 -			— –		 -	
	10										
	0										
	10	0				Fr	equenc	y (Hz)			10000







Device Under Test:	20240927 N78	3 WB 100MHz	DFTS QPSK	RB1 1 ch650000

Bandwidth Wideband

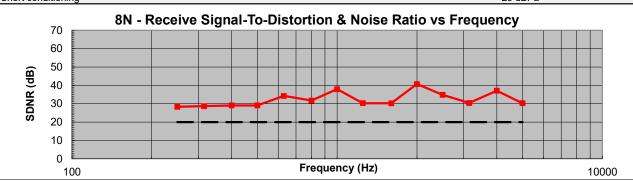
Test Date: 2024-09-27

Receive Volume Control Performance

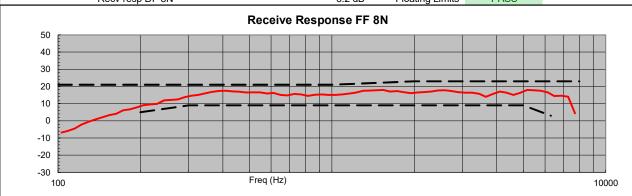
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.94 dB	info only		
	Recv conversational gain 8N	16.94 dB	6.00	PASS	

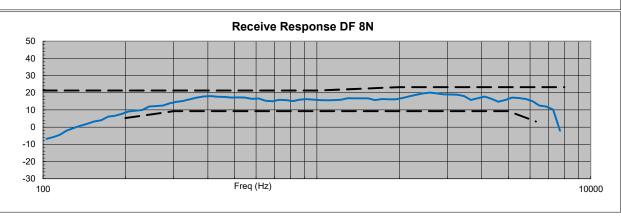
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference				
Clause 5.2	Recv PN-SDNR 8N	8.3 dB	Absolute Limits	PASS					
Note: SDNR incl	Note: SDNR includes noise and distortion products.								
Stimulus level			-20 dBPa						
Sentence conditi	oning		-20 dBPa						
Short conditionin	g			-20 dBPa					











20 10 0 -10 -20 -30

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TIA-5050 Receive Volume Control Measurements - 8N

Device Under Test:	20240927_WB_11b_ch6_1Mbps
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Bandwidth Wideband

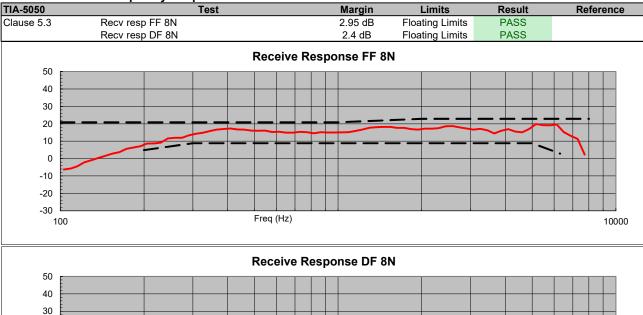
Test Date: 2024-09-27

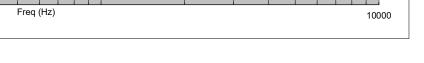
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.7 dB	info only		
	Recv conversational gain 8N	16.7 dB	6.00	PASS	

Receive Distortion and Noise Performance

VCCC14C	Dist	ntion and No	136 1 61101	mance							
ΓIA-5050			Te	est			Margin	Limits	Result	Reference	
lause 5.2	2	Recv PN-SI	NR 8N					8 dB	Absolute Limits	PASS	
lote: SDN	NR inclu	ides noise and d	istortion pro	ducts.							
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	70 E	8N - F	Receive	Signai	- 10-L	JISTO	rtio	n & Nois	e Ratio vs Fr	equency	
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SDNR (dB)	30				_			lacksquare			
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	1										
	10										
	0										
	10	n					Freq	uency (Hz)			10000







Bandwidth Wideband

Test Date: 2024-09-26

Receive Volume Control Performance

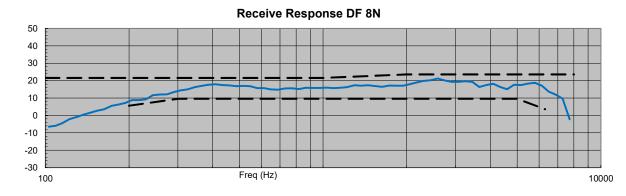
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.78 dB	info only		
	Recv conversational gain 8N	16.78 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050		Test	Margin	Limits	Result	Reference				
Clause 5.2	Recv PN-SDNR 8N 7.4 dB Absolute Limits PASS									
Note: SDNR	includes noise and distortion	on products.								
70	8N - Rece	ive Signal-To-Dis	stortion & Nois	e Ratio vs Fre	quency					
60	0									
⋒ 50	0									
SDNR (dB)										
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N 30		الألك المراح								
o 20	0	+								
10										
(o		Frequency (Hz)			10000				

Receive Acoustic Frequency Response Performance
TIA-5050
Test

TIA-5050		Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N		2.95 dB	Floating Limits	PASS	
	Recv resp DF 8N		2.3 dB	Floating Limits	PASS	
		Receive Re	sponse FF 8I	N		
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-30 E		Freq (Hz)				10000
100		, ,				10000
		Receive Re	sponse DF 8I	N		





Bandwidth Wideband

Test Date: 2024-09-26

Receive Volume Control Performance

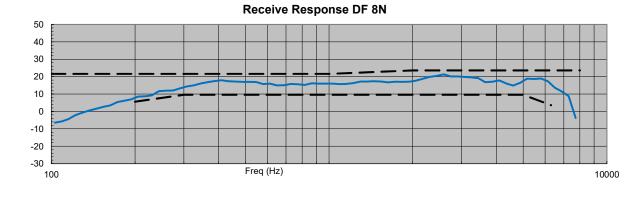
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.8 dB	info only		
	Recy conversational gain 8N	16.8 dB	6.00	PASS	

Receive Distortion and Noise Performance

ΓIA-5050			Test			Margin	Limits	Result	Reference
Clause 5.2	Rec	v PN-SDNR 8N				7.2 dB	Absolute Limits	PASS	
Note: SDN	R includes nois	e and distortion p	roducts.						
		8N - Receive	Signal-	To-Dis	tortio	n & Nois	e Ratio vs Fre	quency	
	70								
	60								
_	50								
8							_		
ď	40							_	
SDNR (dB)	30		-	+		lacksquare	$\overline{}$		
$\overline{\mathbf{o}}$	20			++					
	10								
	100				Frequ	ency (Hz)			10000

Receive Acoustic Frequency Response Performance

TIA-5050		Test				Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N					2.86 dB	Floating Limits	PASS	
	Recv resp DF 8N					2.3 dB	Floating Limits	PASS	
			Rec	eive F	Respo	onse FF 8	N		
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0									
-10									
-20									
-30									
100			Freq	(Hz)					10000
	Receive Response DF 8N								
50						1			



8N_Summary 1/1



Device Under Test:	20240926_WB_11ac_VHT20_ch120_MCS0
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Bandwidth Wideband

Test Date: 2024-09-26

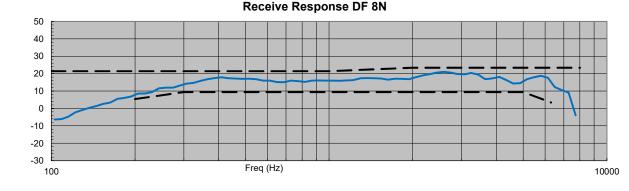
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.82 dB	info only		
	Recv conversational gain 8N	16.82 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050			Te	st				Margin	Limits	Result	Reference
Clause 5.	.2	Recv PN-SD	NR 8N					7.9 dB	Absolute Limits	PASS	
Note: SDI	NR incl	udes noise and di	istortion prod	ducts.							
	70 s	8N - F	Receive	Signal	-To-E	isto	rtio	n & Nois	e Ratio vs Fre	equency	
	60										
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SDNR (dB)	40										
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	10										
	0 10	0			_		Frequ	iency (Hz)			10000

TIA-5050	Test		Margin	Limits	Result	Reference			
Clause 5.3	Recv resp FF 8N		2.97 dB	Floating Limits	PASS				
	Recv resp DF 8N		2.4 dB	Floating Limits	PASS				
		Receive Res	ponse FF 8	N					
50 F			-						
40									
30									
20			 						
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0						- . 			
-10									
-20									
-30									
100		Freq (Hz)				10000			
	Receive Response DF 8N								
50									
40									





Bandwidth Wideband

Test Date: 2024-09-26

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	86.81 dB	info only		
	Recv conversational gain 8N	16.81 dB	6.00	PASS	

Receive Distortion and Noise Performance

IA-5050		Test	Margin	Limits	Result	Reference
lause 5.2	Recv PN-SDNR 8N		7.5 dB	Absolute Limits	PASS	
lote: SDNR in	cludes noise and distortion p	oducts.				
	8N - Receive	Signal-To-Dist	ortion & Nois	e Ratio vs Fre	anency	
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60						
- 50						
SDNR (dB)						
<u>4</u>						
NO 30	-	-		Y	+	
20	_					
10						
0						
	100		Frequency (Hz)			10000

