

TIA-5050 Receive Volume Control Measurements - 8N

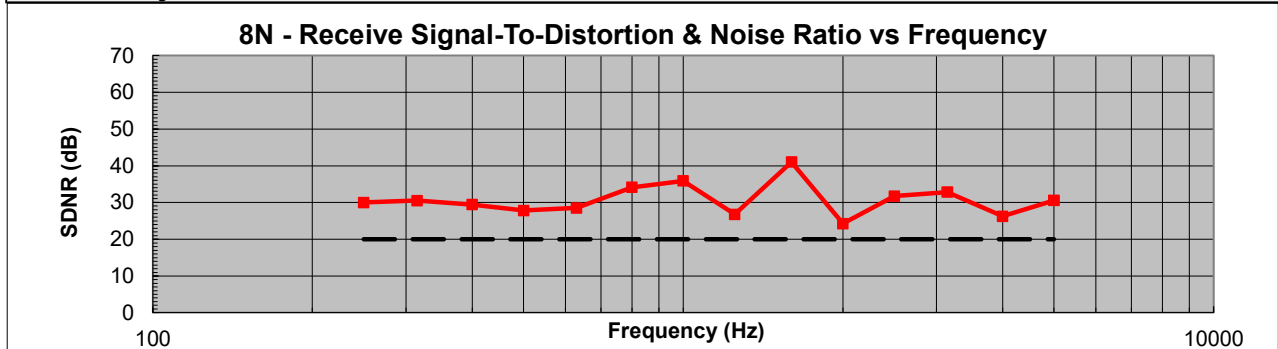
Device Under Test:	20250418_L14_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-18

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.82 dB	info only		
	Recv conversational gain 8N	18.82 dB	6.00	PASS	

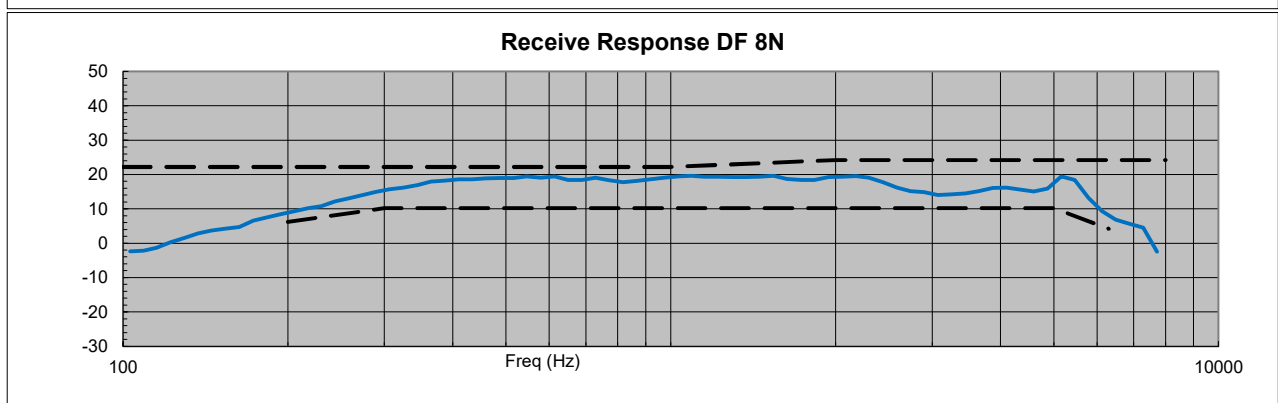
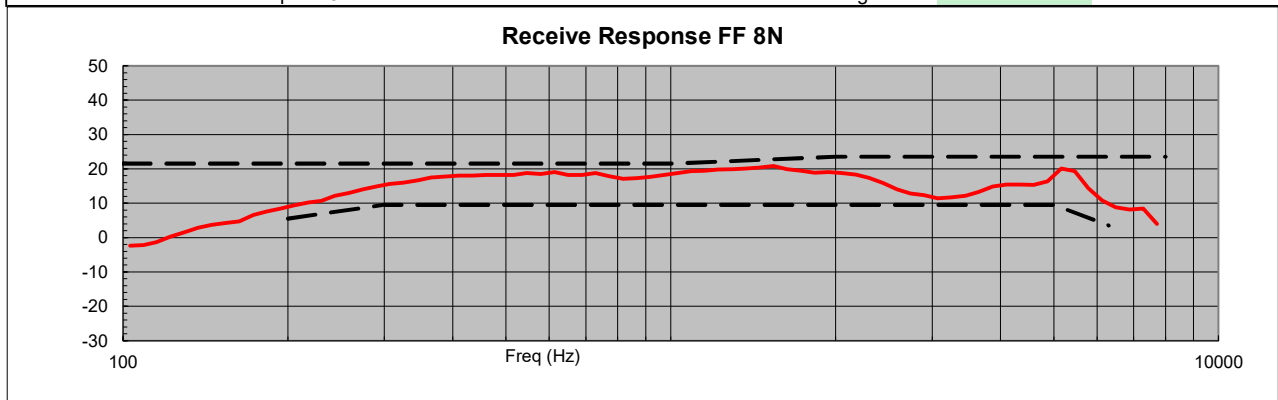
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.94 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

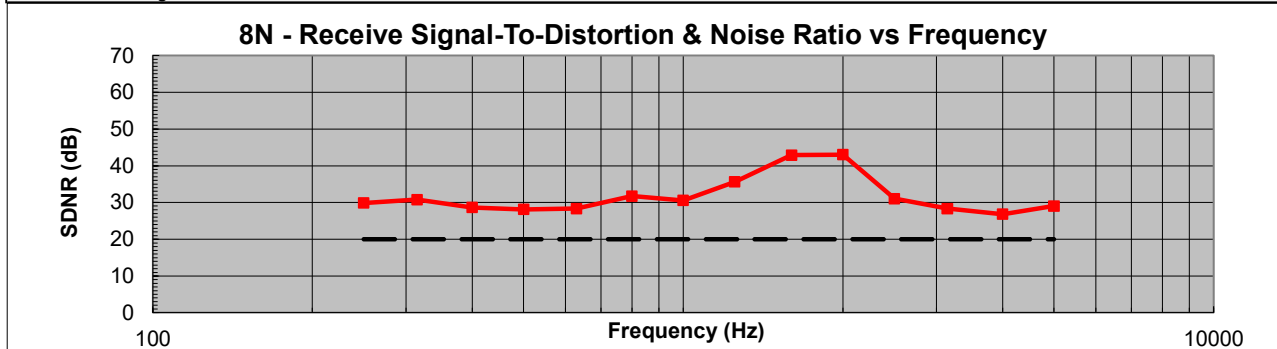
Device Under Test:	20250418_L25_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-18

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.89 dB	info only		
	Recv conversational gain 8N	18.89 dB	6.00	PASS	

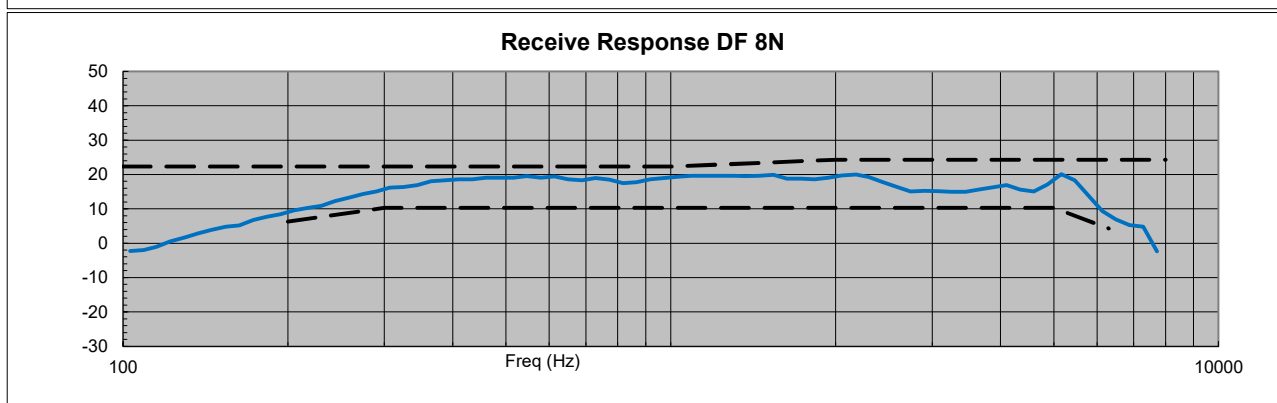
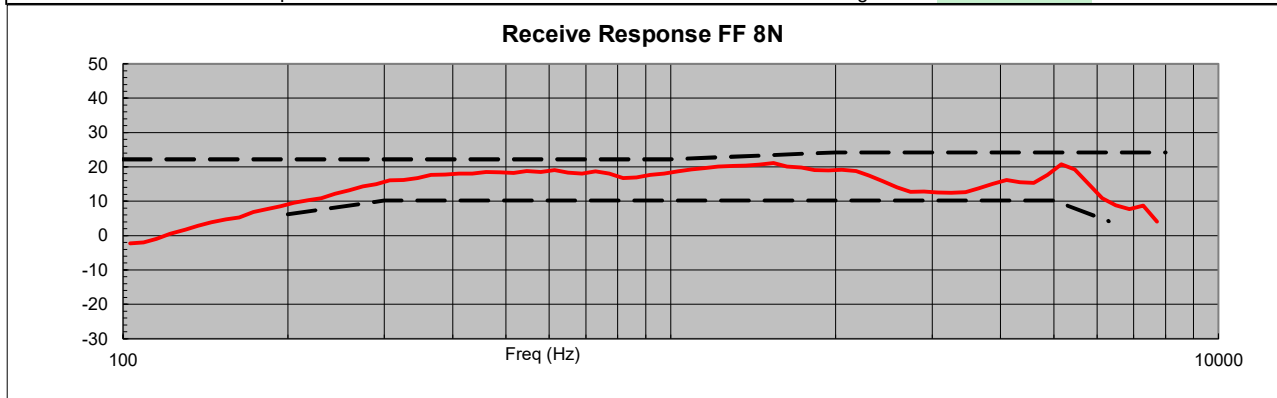
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	6.8 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.29 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

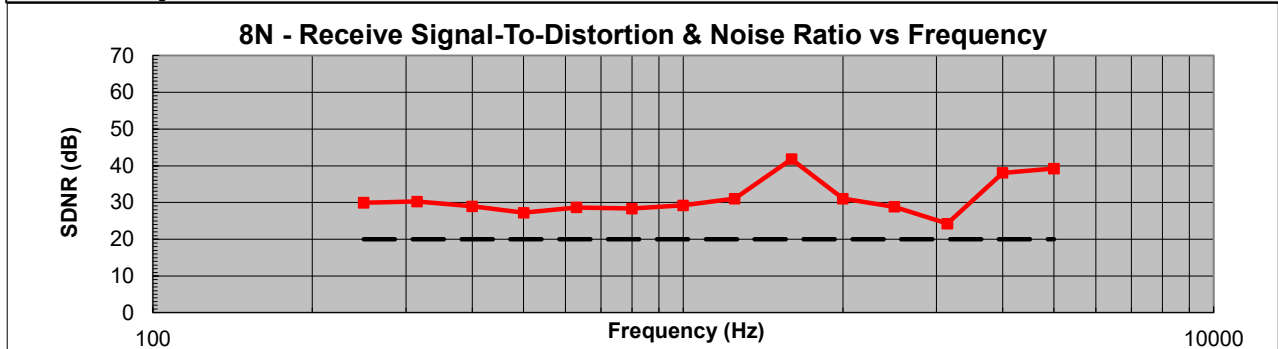
Device Under Test:	20250423_L26_M1_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-23

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.82 dB	info only		
	Recv conversational gain 8N	18.82 dB	6.00	PASS	

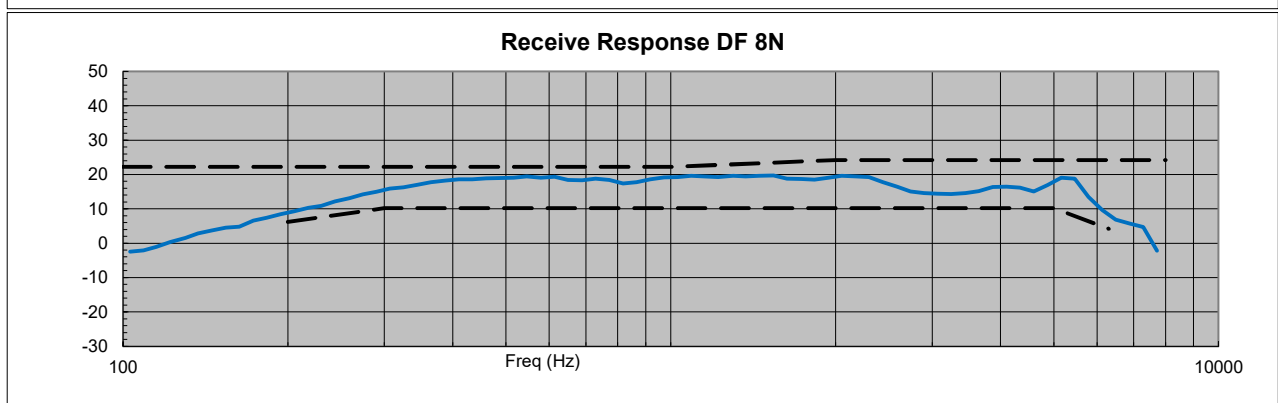
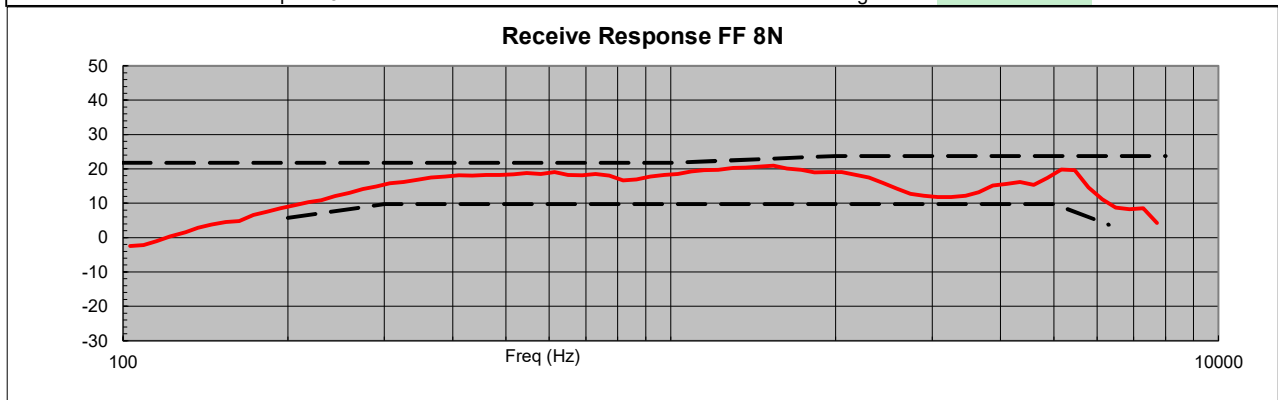
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.2 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBP _a	
Sentence conditioning				-20 dBP _a	
Short conditioning				-20 dBP _a	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.07 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

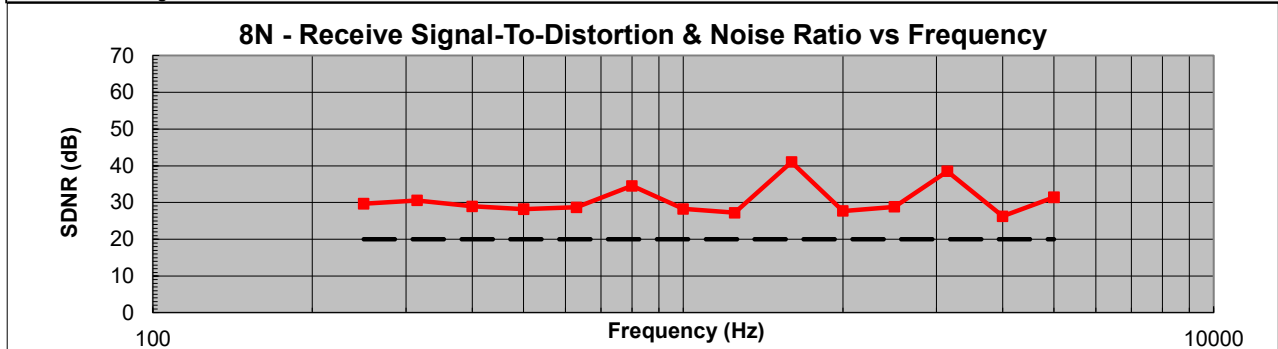
Device Under Test:	20250418_L30_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-18

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.94 dB	info only		
	Recv conversational gain 8N	18.94 dB	6.00	PASS	

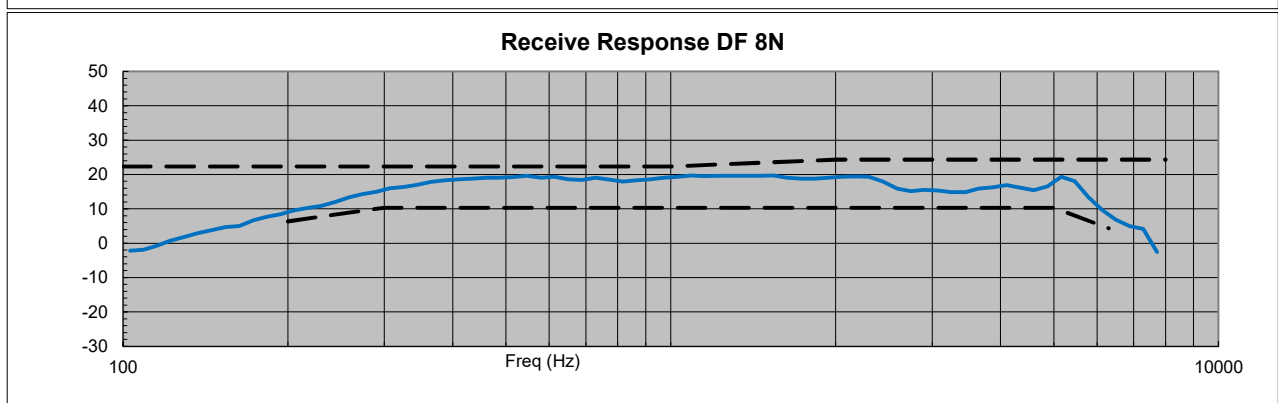
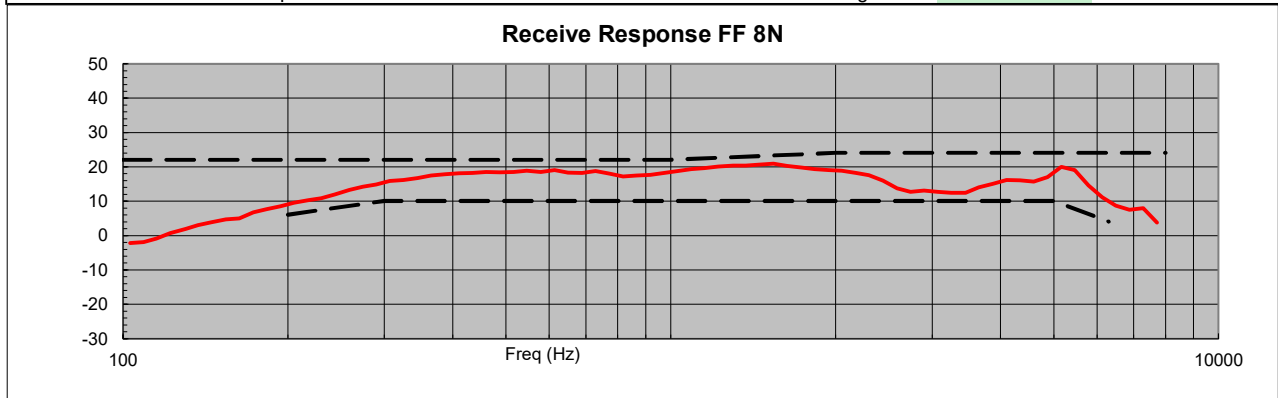
Receive Distortion and Noise Performance

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



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.36 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

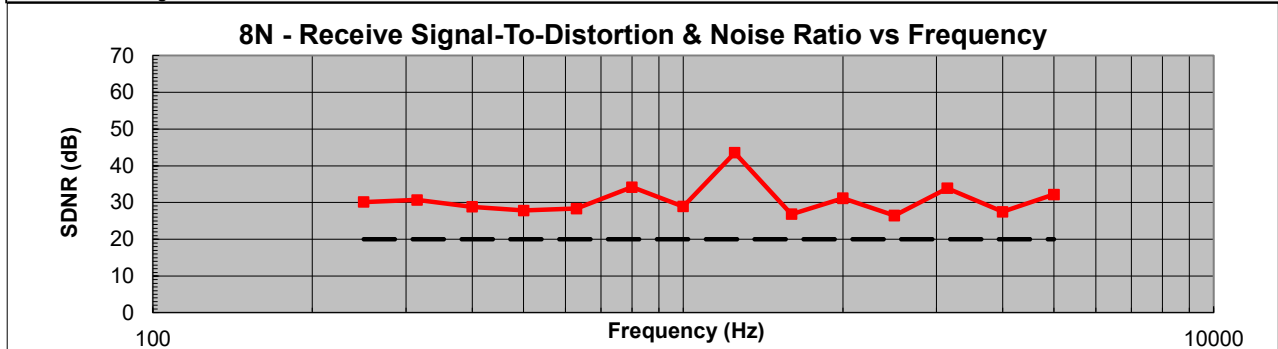
Device Under Test:	20250418_L66_WB_M2_8N
Bandwidth	Wideband
Test Date:	2025-04-18

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.81 dB	info only		
	Recv conversational gain 8N	18.81 dB	6.00	PASS	

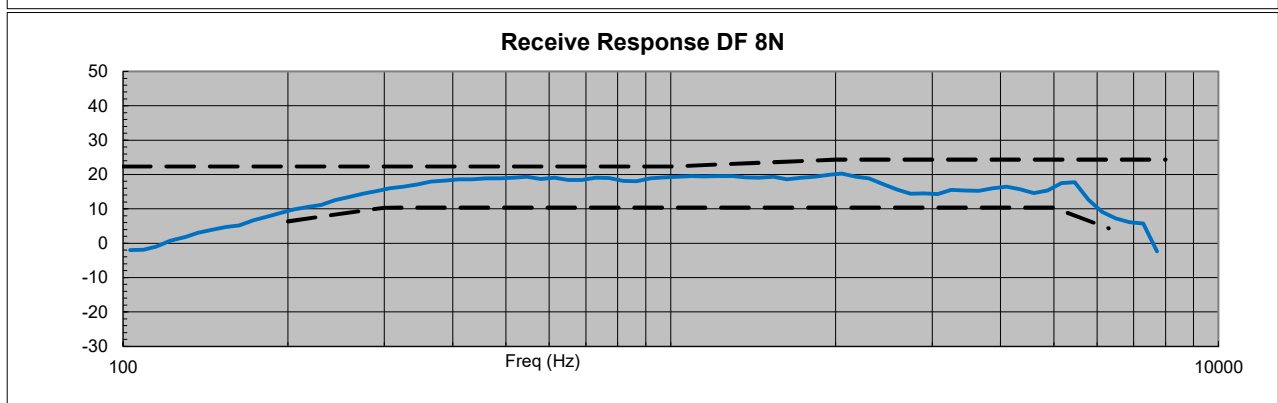
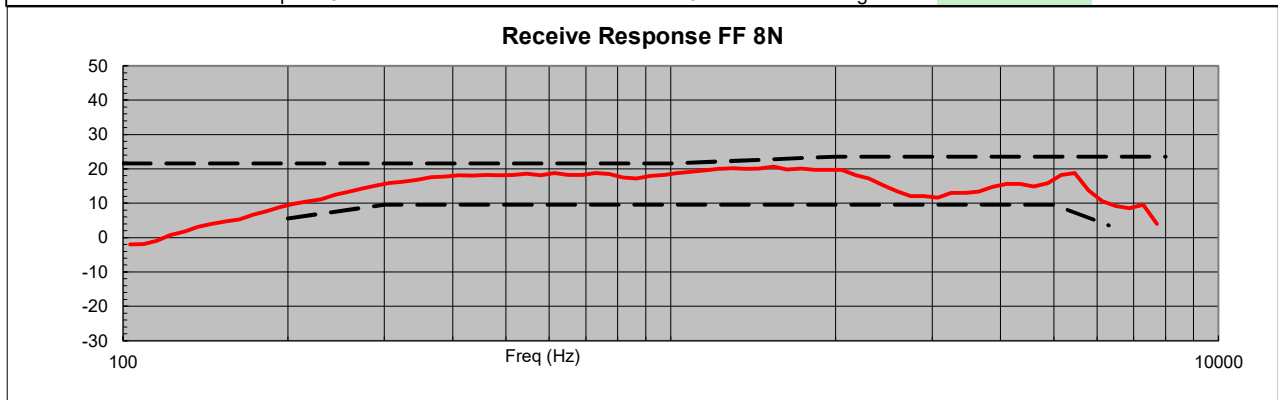
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	6.4 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.09 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

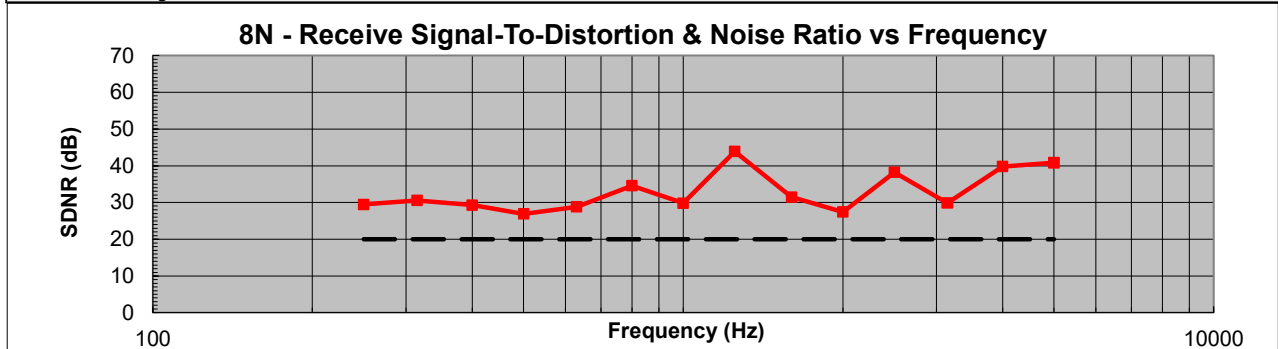
Device Under Test:	20250421_L71_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-21

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.22 dB	info only		
	Recv conversational gain 8N	19.22 dB	6.00	PASS	

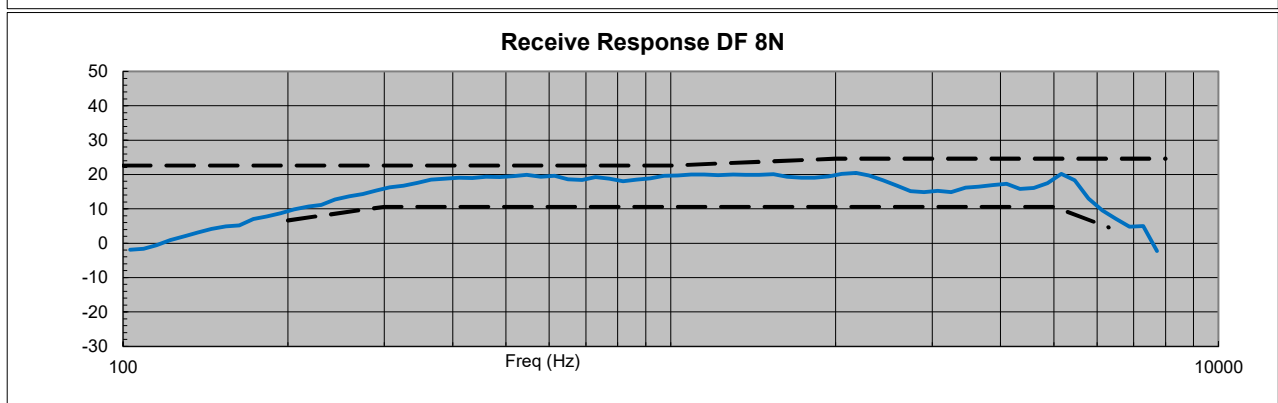
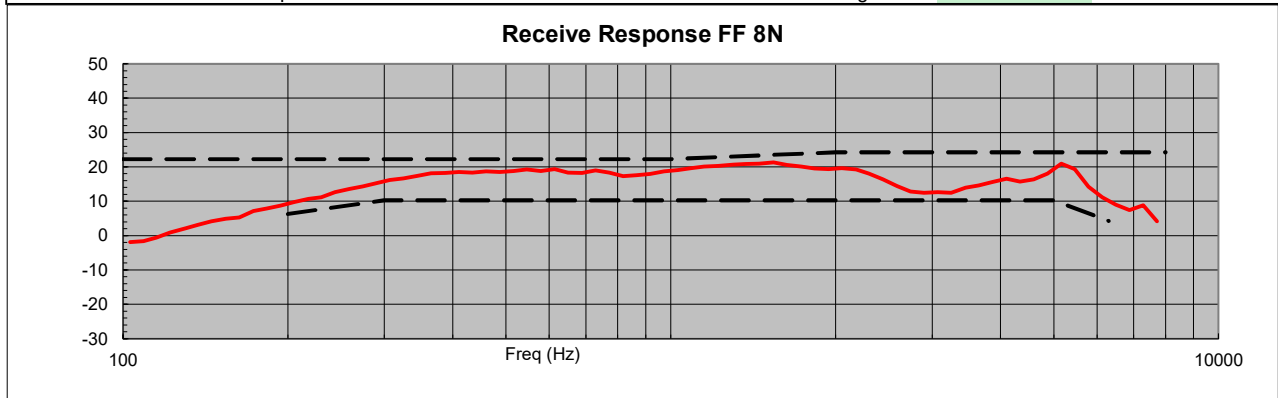
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	6.9 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.17 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

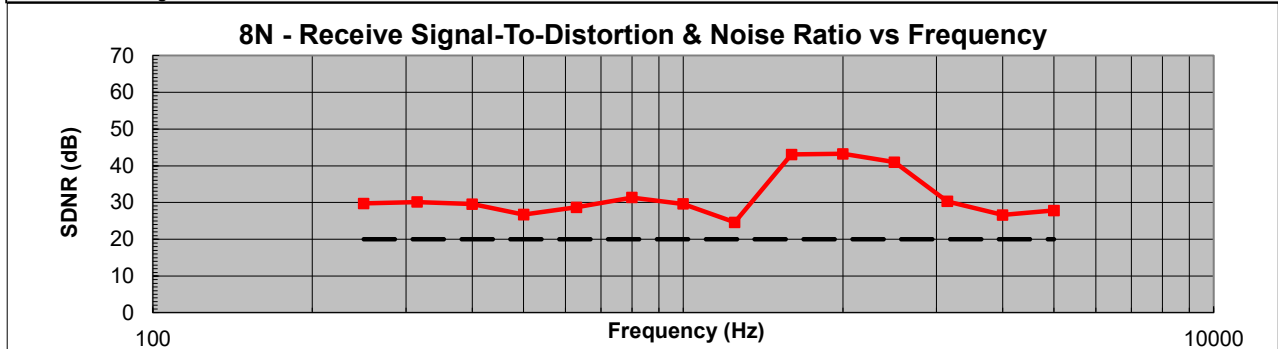
Device Under Test:	20250418_L41_M2_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-18

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.9 dB	info only		
	Recv conversational gain 8N	18.9 dB	6.00	PASS	

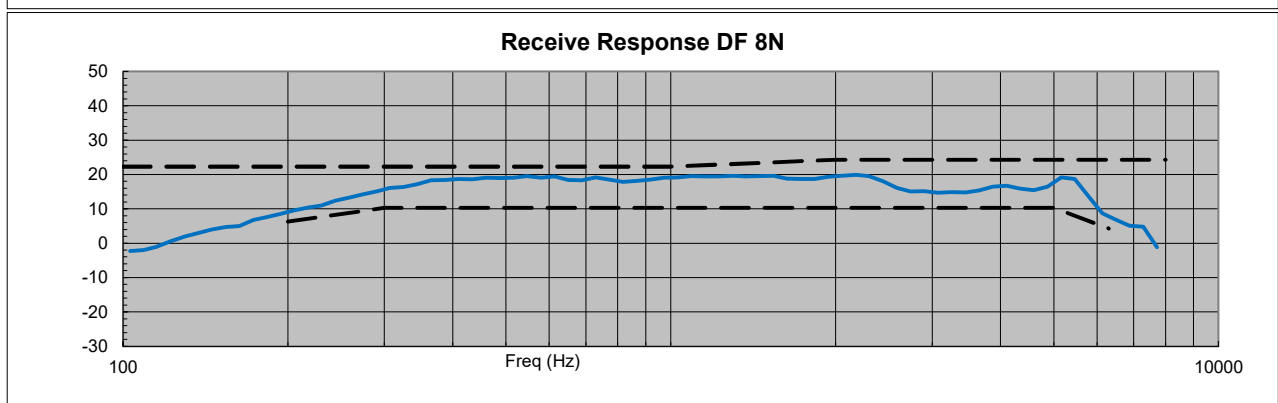
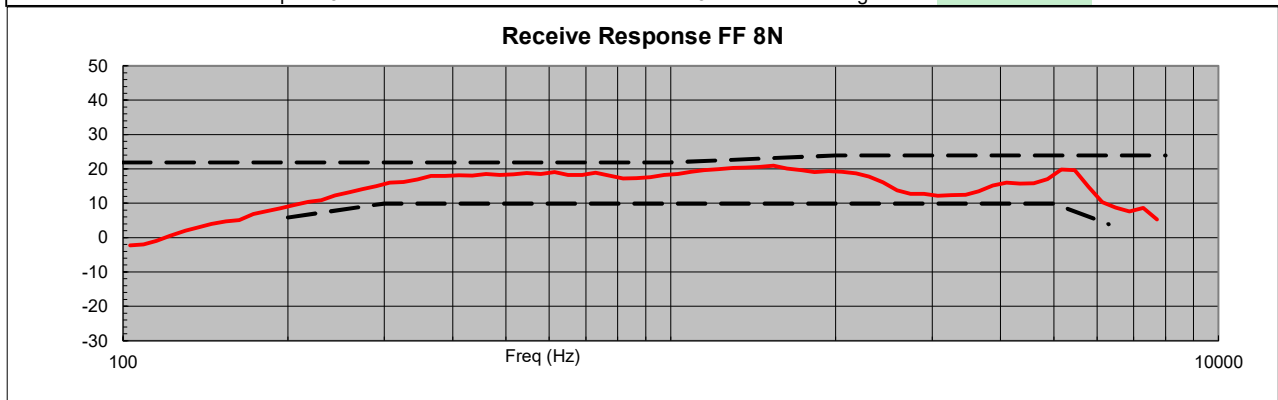
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.6 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.23 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.8 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

Device Under Test:	20250421_L48_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-21

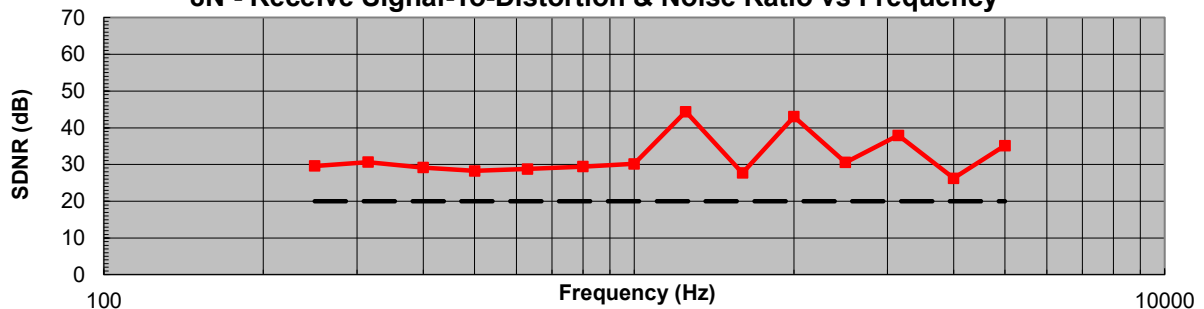
Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.33 dB	info only		
	Recv conversational gain 8N	19.33 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	6.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	

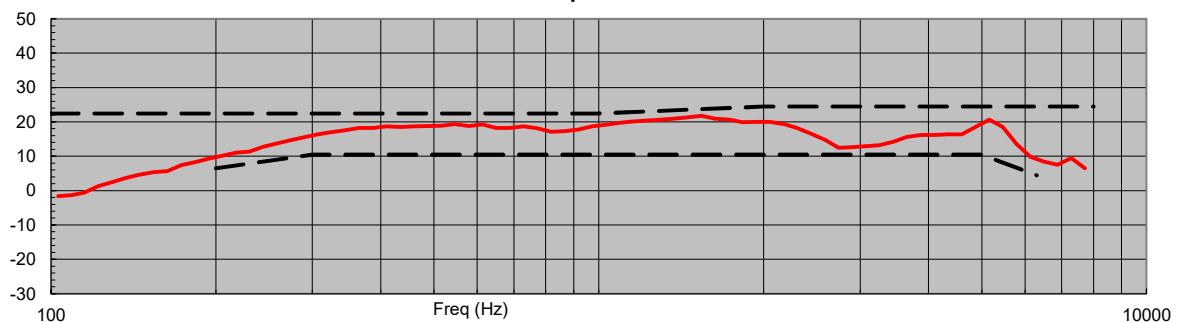
8N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



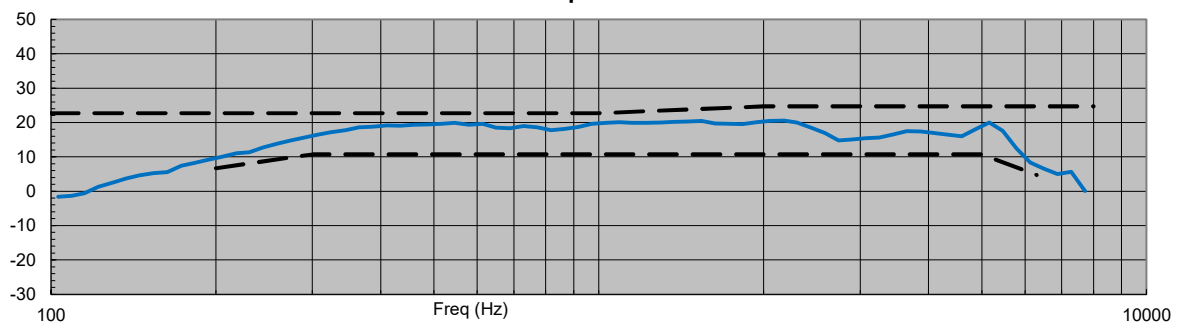
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.96 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	

Receive Response FF 8N



Receive Response DF 8N



TIA-5050 Receive Volume Control Measurements - 8N

Device Under Test: 2025-04-28_N5_M1_WB_8N

Bandwidth: Wideband

Test Date: 2025-04-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.54 dB	info only		
	Recv conversational gain 8N	18.54 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.5 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level

-20 dBPa

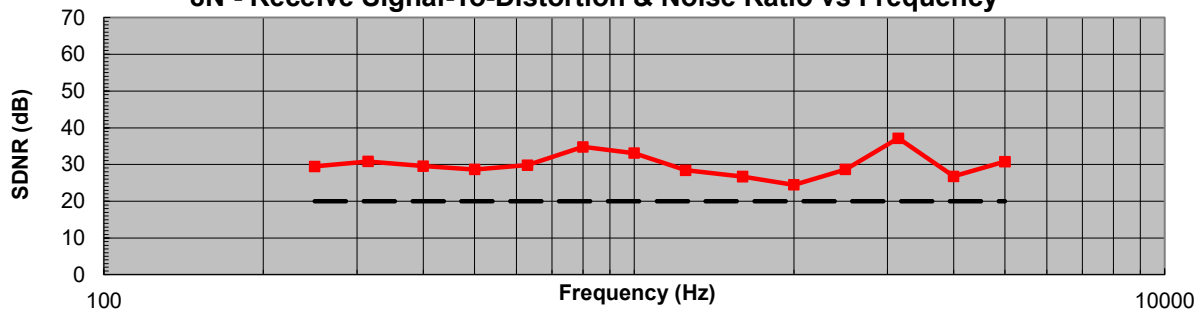
Sentence conditioning

-20 dBPa

Short conditioning

-20 dBPa

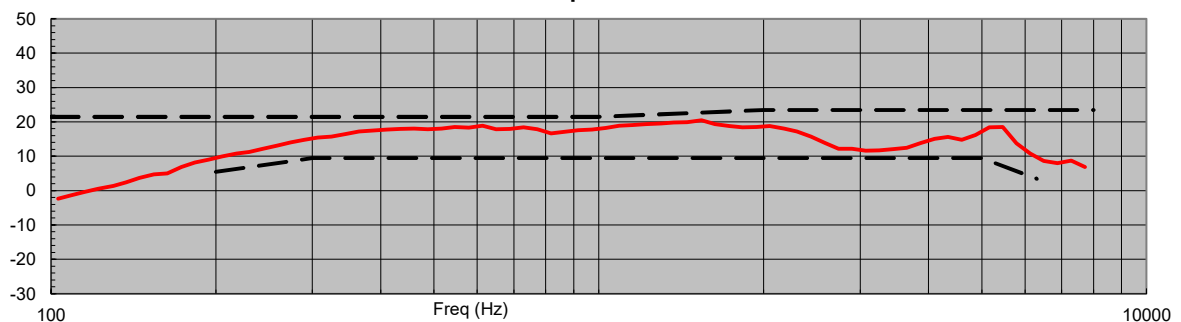
8N - Receive Signal-To-Distortion & Noise Ratio vs Frequency



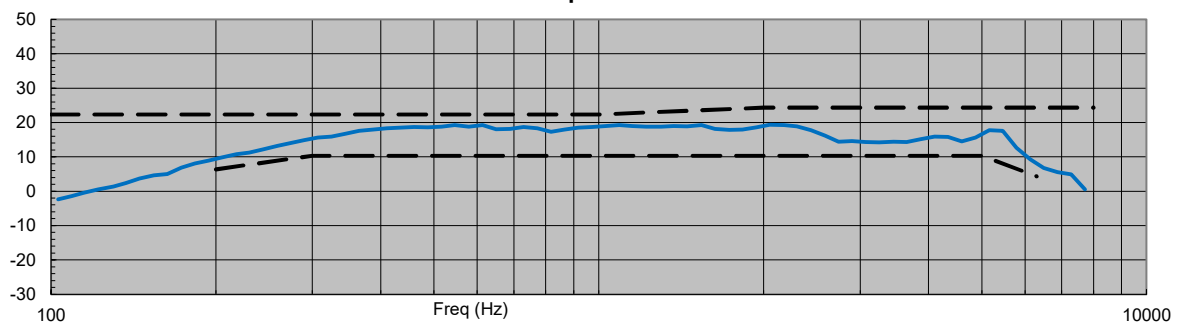
Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.22 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.1 dB	Floating Limits	PASS	

Receive Response FF 8N



Receive Response DF 8N



TIA-5050 Receive Volume Control Measurements - 8N

Device Under Test:	20250428_N25_WB_8N
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Bandwidth	Wideband
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Test Date:	2025-04-28
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Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.76 dB	info only		
	Recv conversational gain 8N	18.76 dB	6.00	PASS	

Receive Distortion and Noise Performance

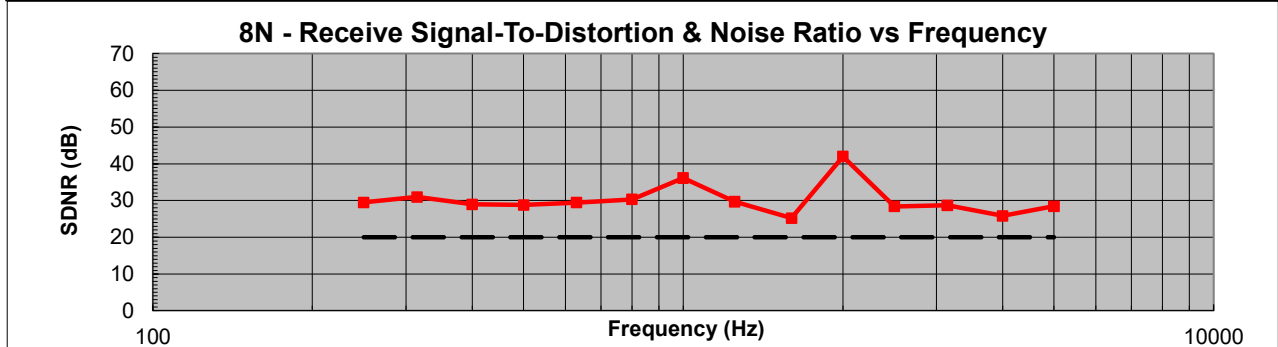
TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	5.2 dB	Absolute Limits	PASS	

Note: SDNR includes noise and distortion products.

Stimulus level -20 dBPa

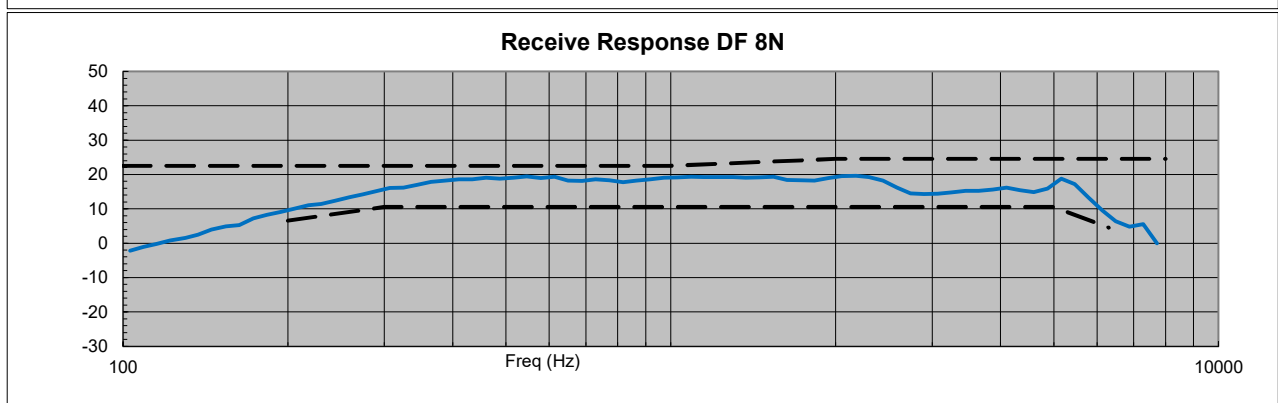
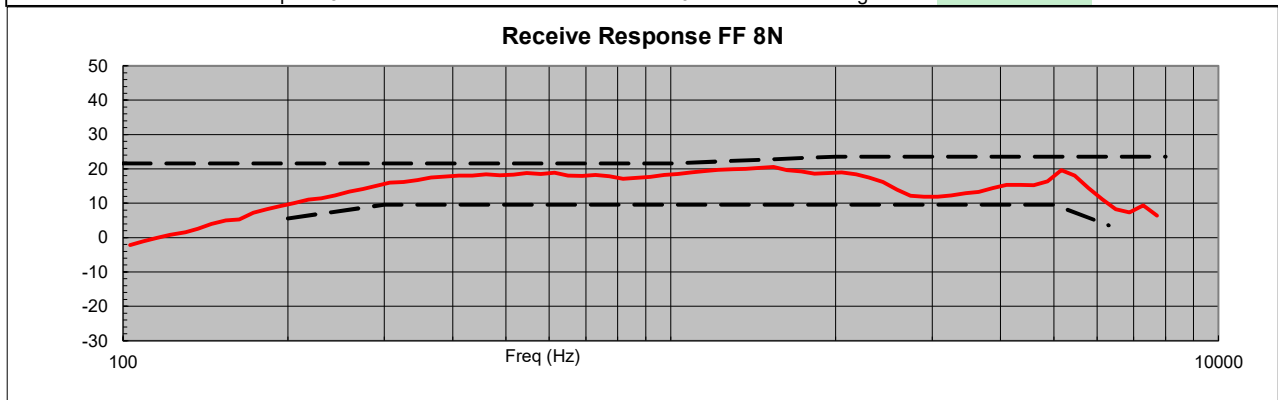
Sentence conditioning -20 dBPa

Short conditioning -20 dBPa



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.28 dB	Floating Limits	PASS	
	Recv resp DF 8N	3.1 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

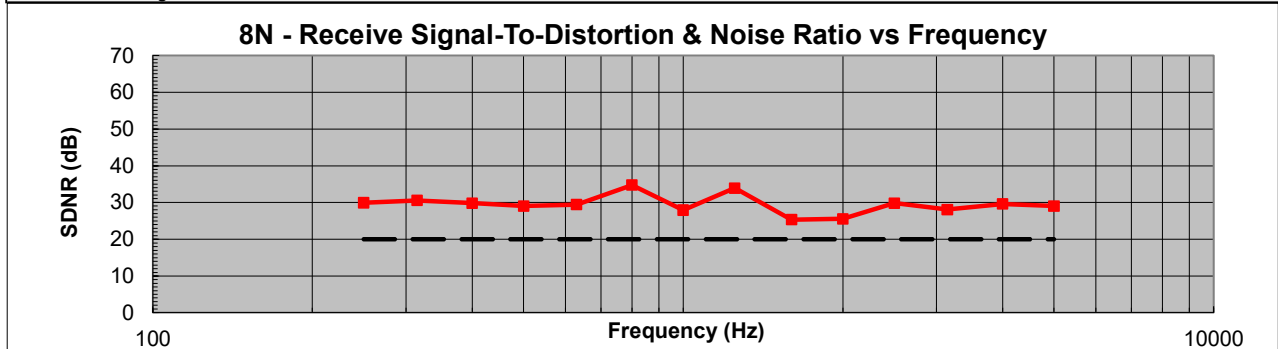
Device Under Test:	20250428_N30_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.59 dB	info only		
	Recv conversational gain 8N	18.59 dB	6.00	PASS	

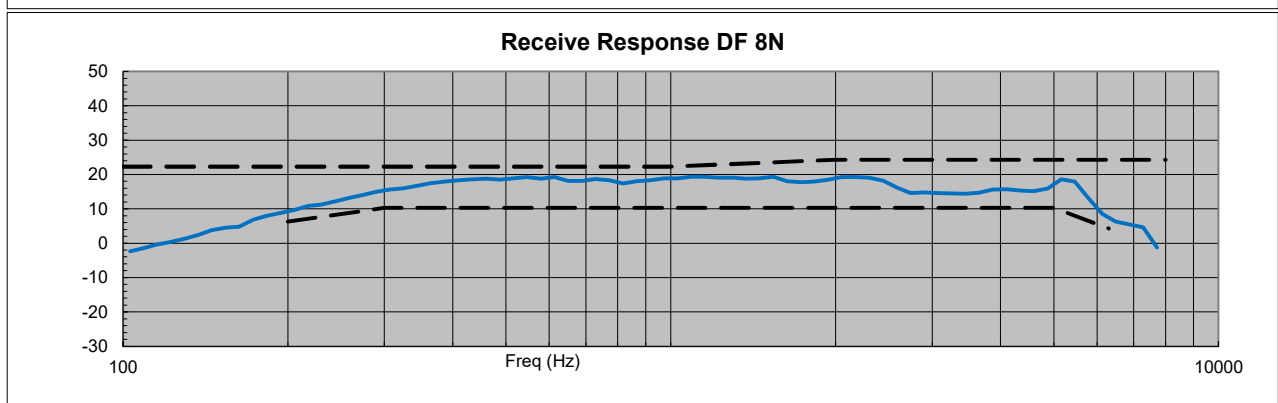
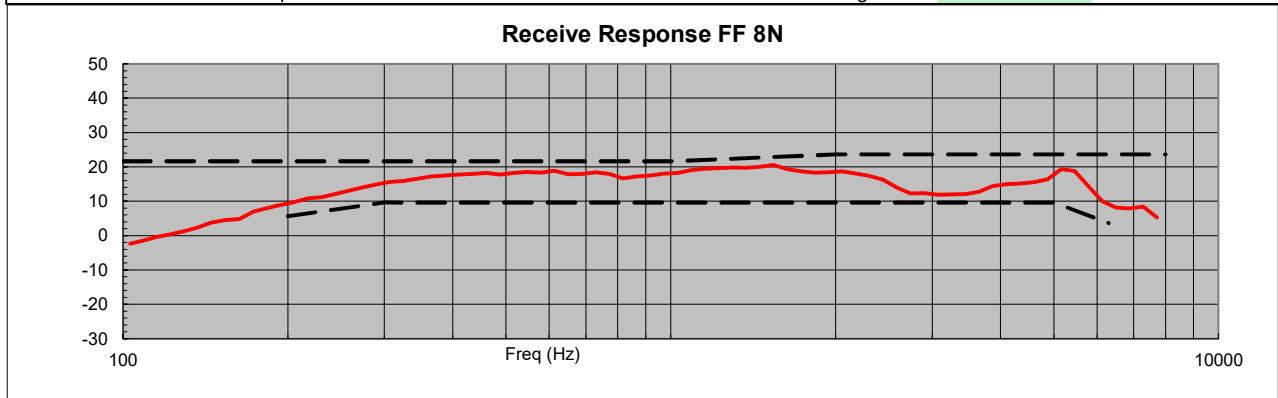
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	5.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.32 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

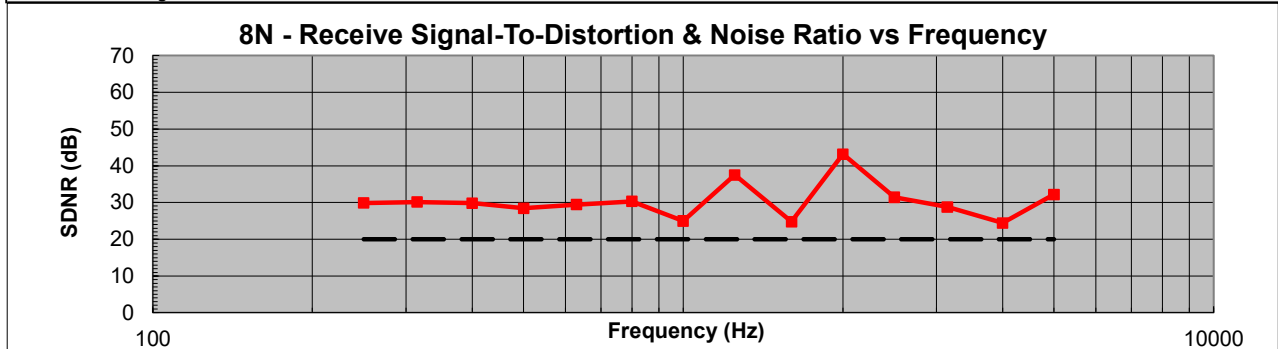
Device Under Test:	20250428_N66_M2_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.47 dB	info only		
	Recv conversational gain 8N	18.47 dB	6.00	PASS	

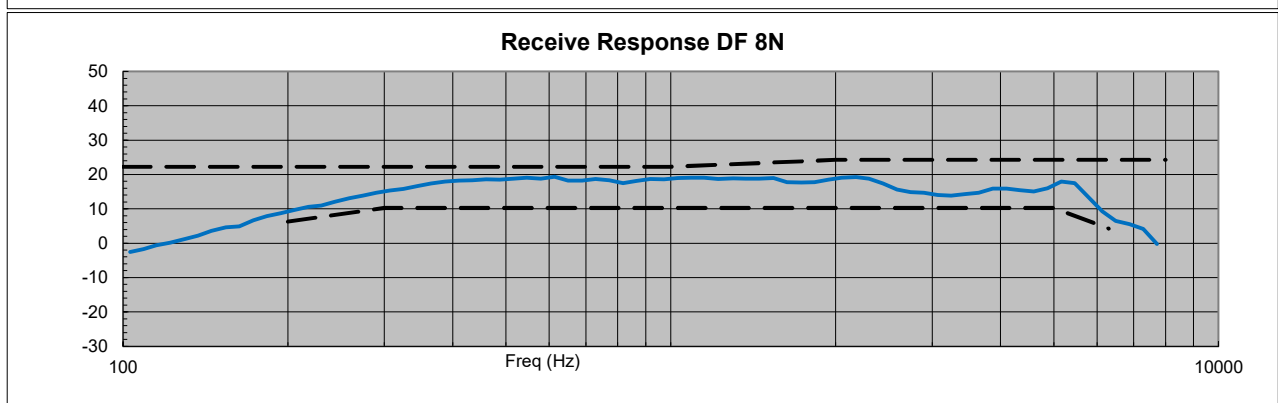
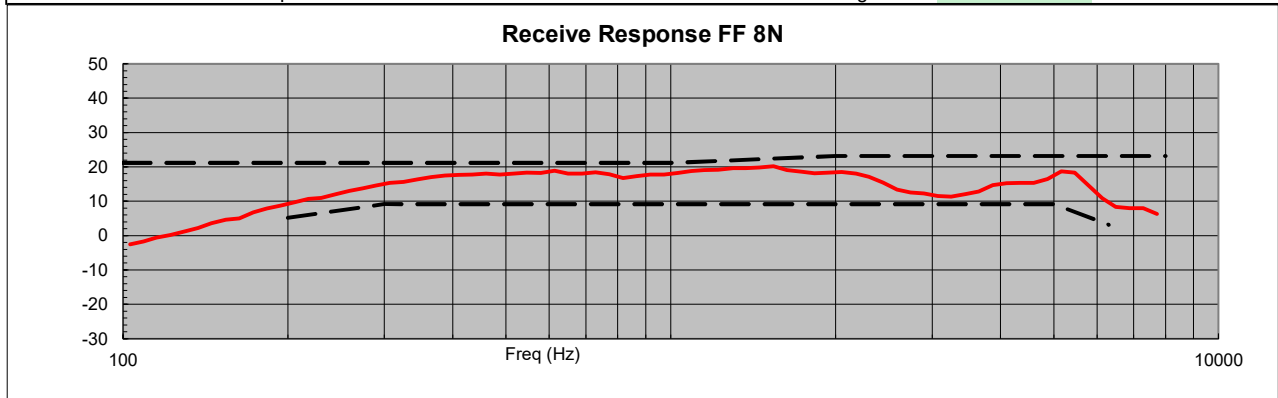
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.4 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.21 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

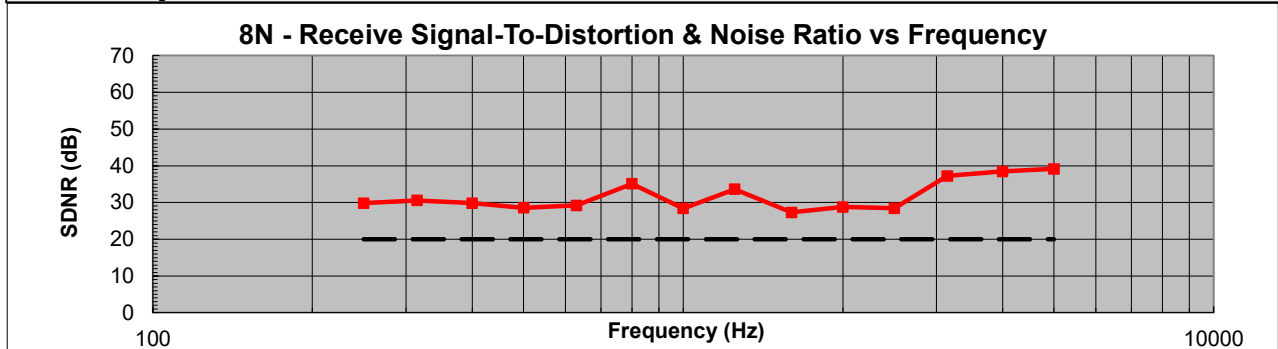
Device Under Test:	20250428_N70_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.54 dB	info only		
	Recv conversational gain 8N	18.54 dB	6.00	PASS	

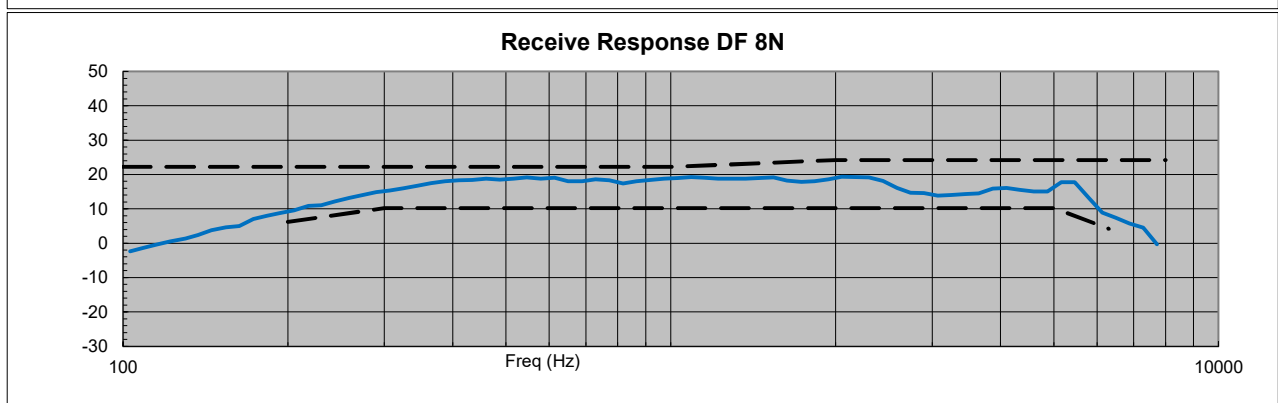
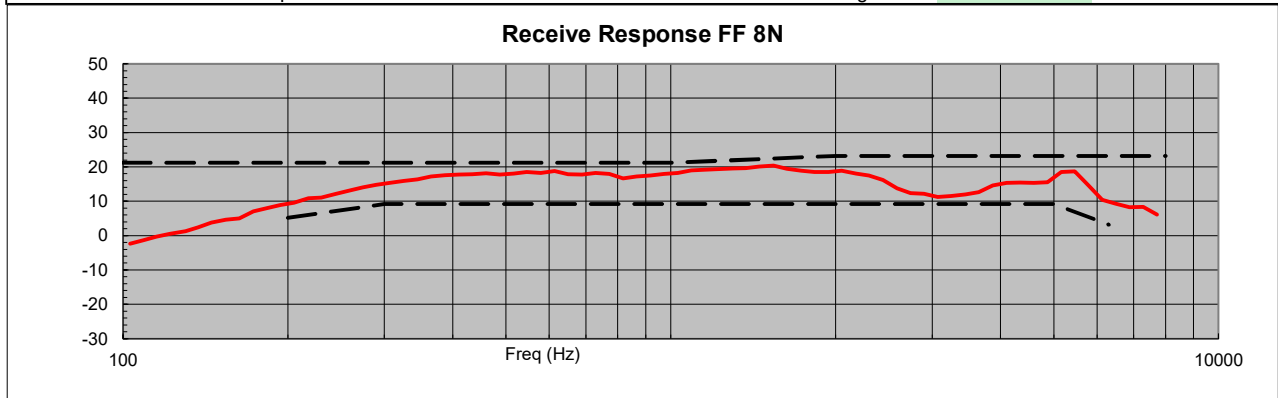
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	7.3 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.05 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

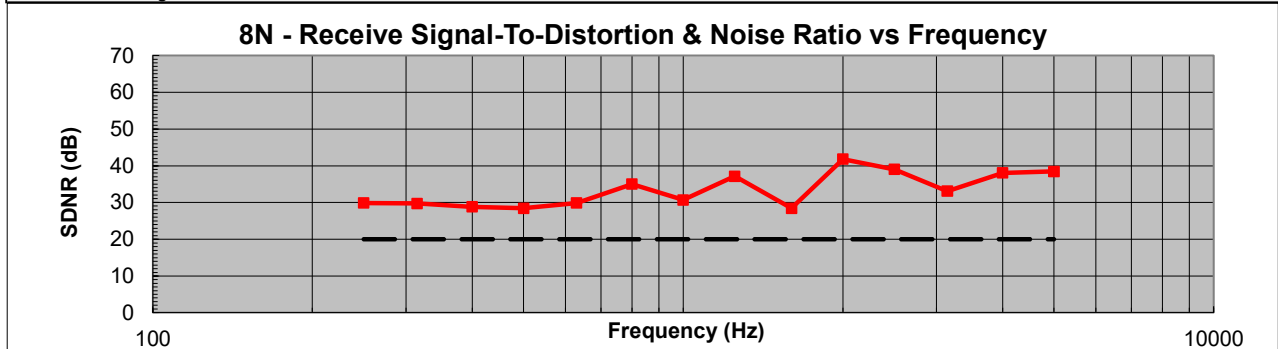
Device Under Test:	20250428_N71_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-28

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.58 dB	info only		
	Recv conversational gain 8N	18.58 dB	6.00	PASS	

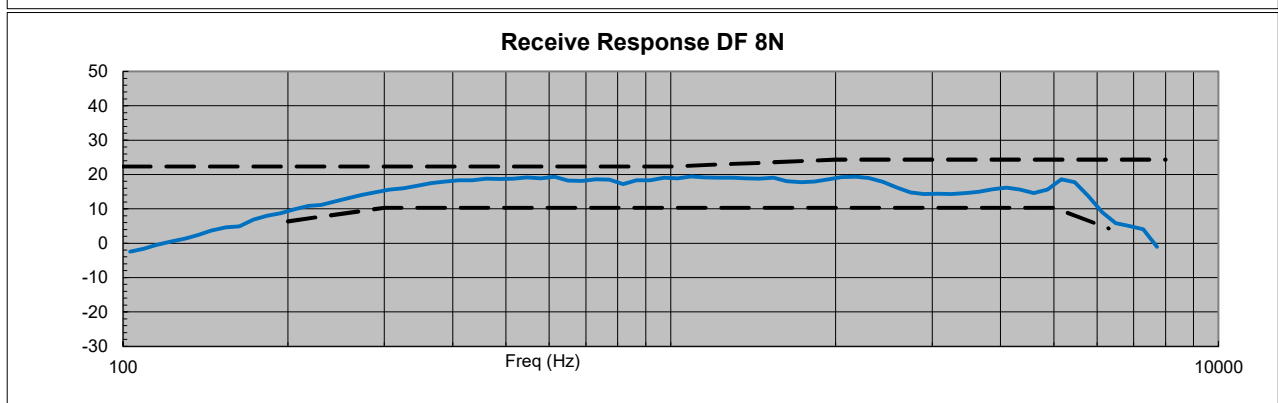
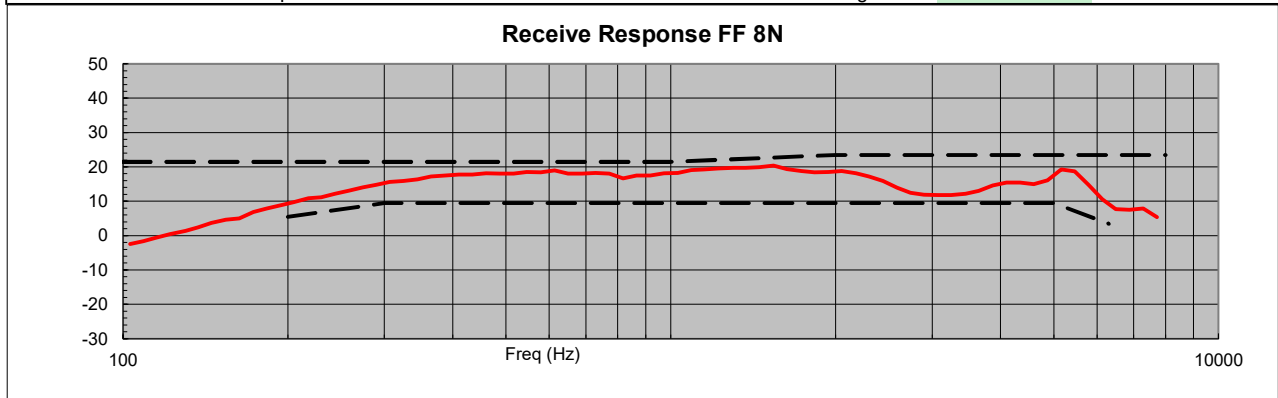
Receive Distortion and Noise Performance

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



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.33 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

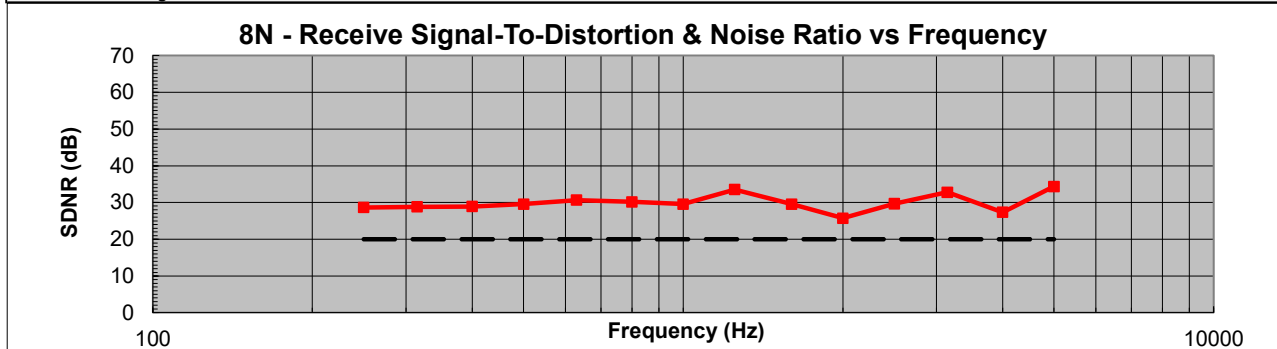
Device Under Test:	20250429_N41_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-29

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.75 dB	info only		
	Recv conversational gain 8N	18.75 dB	6.00	PASS	

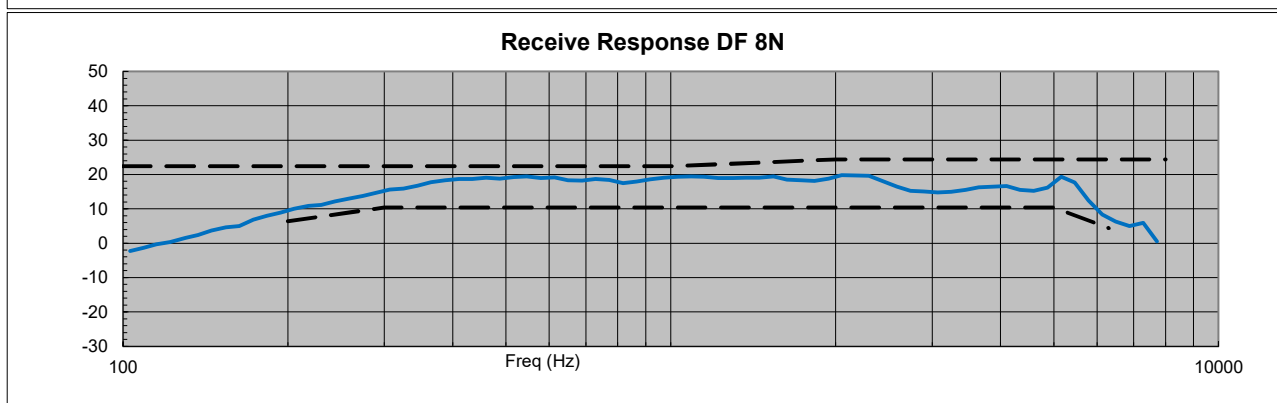
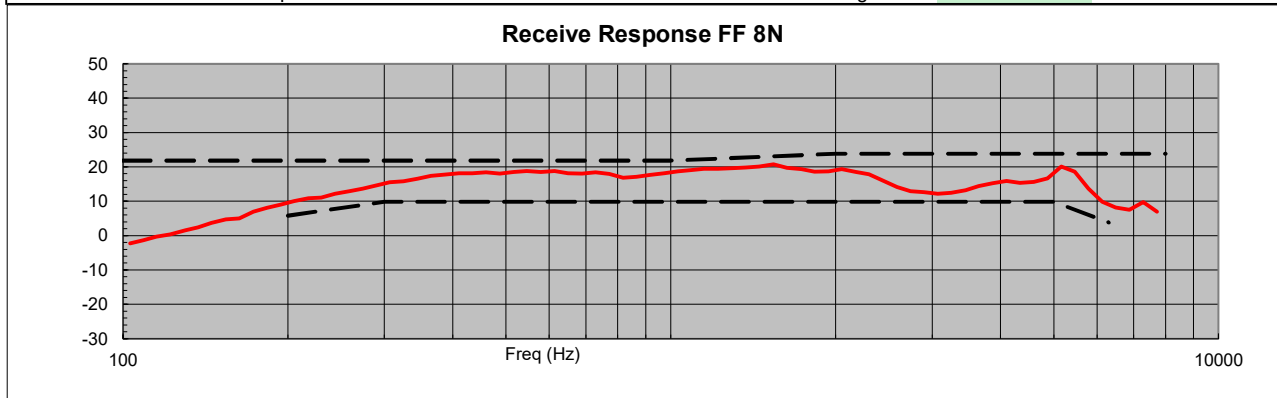
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	5.8 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.35 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

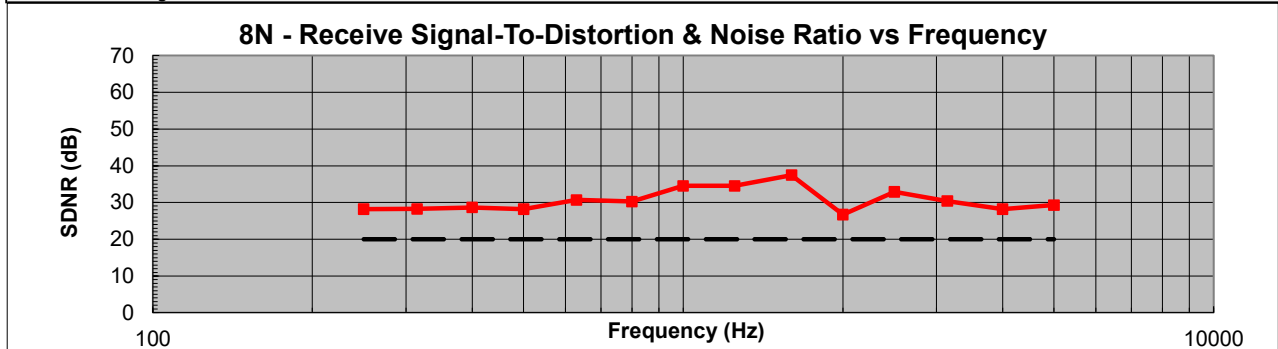
Device Under Test:	20250429_N48_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-29

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.86 dB	info only		
	Recv conversational gain 8N	18.86 dB	6.00	PASS	

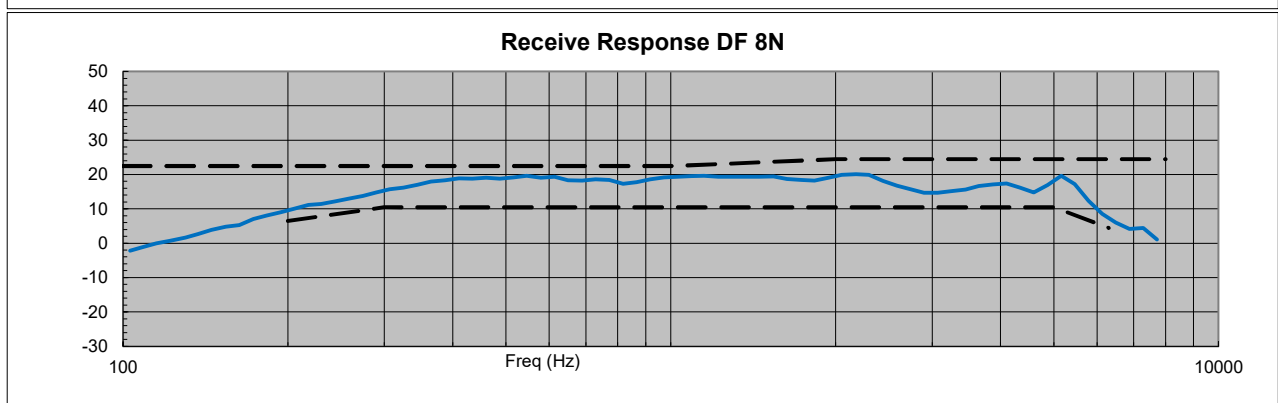
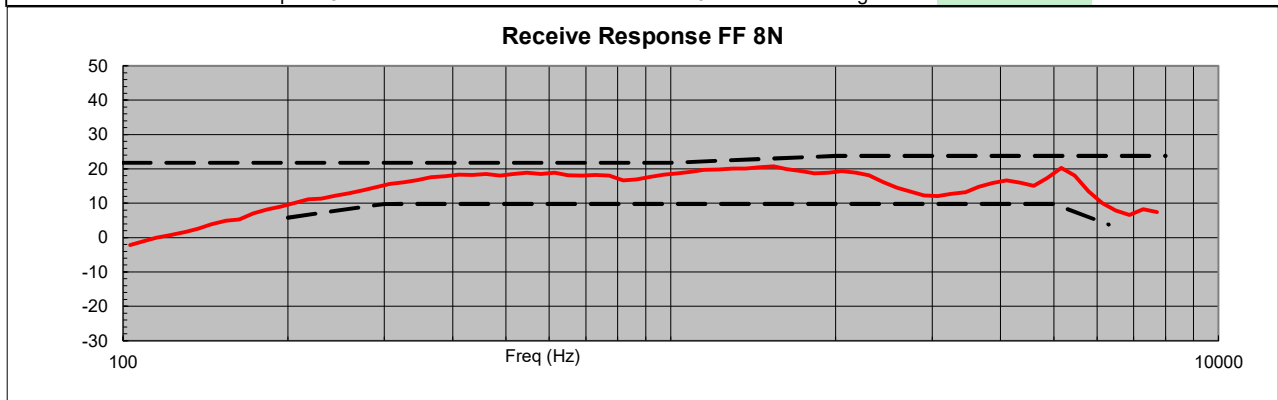
Receive Distortion and Noise Performance

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 conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.32 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.9 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

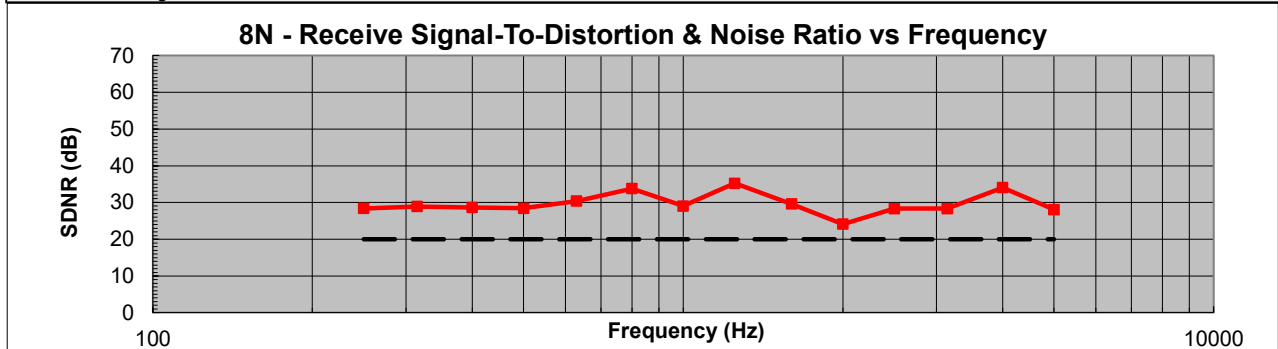
Device Under Test:	20250429_N77_WB_8N
Bandwidth	Wideband
Test Date:	2025-04-29

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	88.89 dB	info only		
	Recv conversational gain 8N	18.89 dB	6.00	PASS	

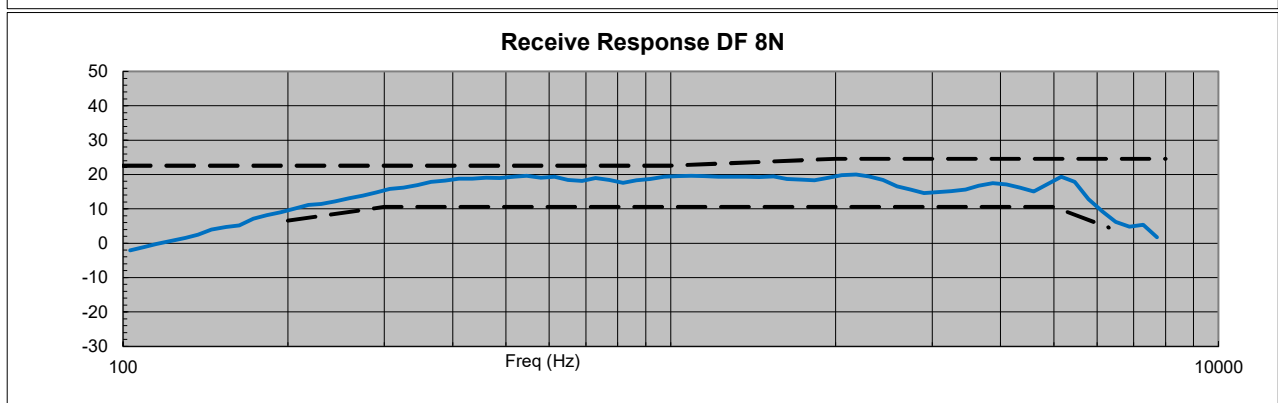
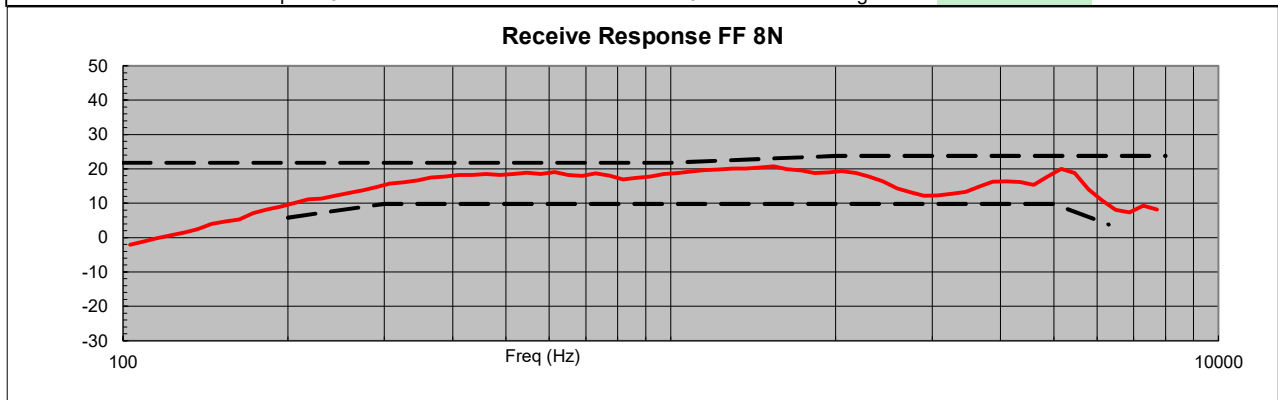
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.1 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.32 dB	Floating Limits	PASS	
	Recv resp DF 8N	3 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

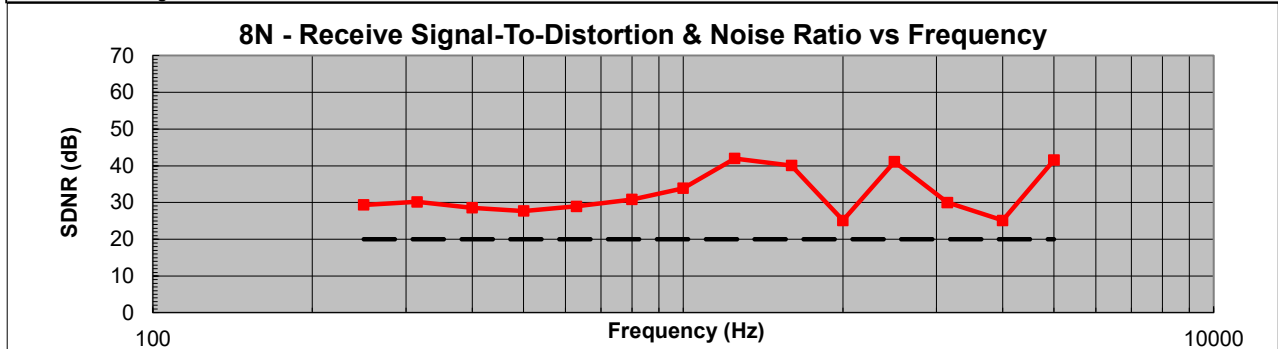
Device Under Test:	11b_Ant2_WB_8N
Bandwidth	Wideband
Test Date:	2025-05-03

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.37 dB	info only		
	Recv conversational gain 8N	19.37 dB	6.00	PASS	

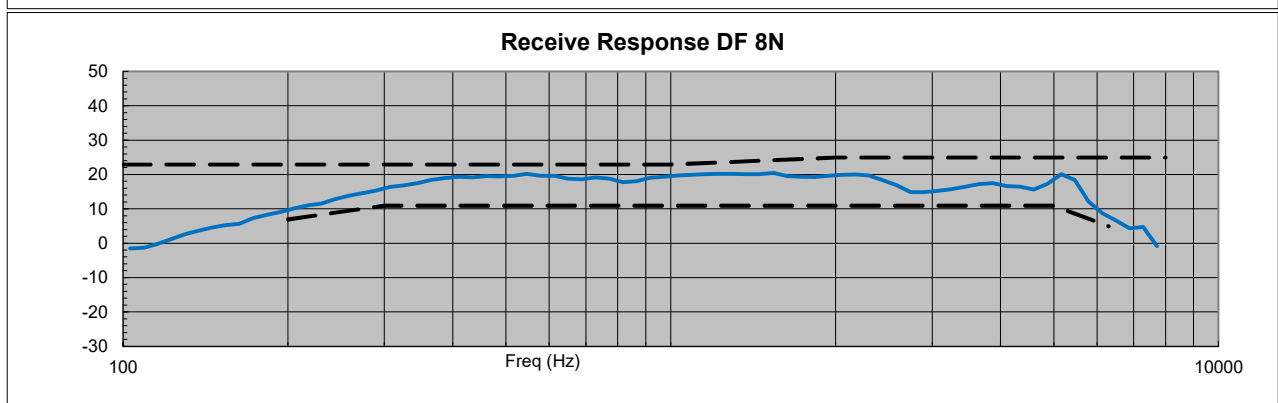
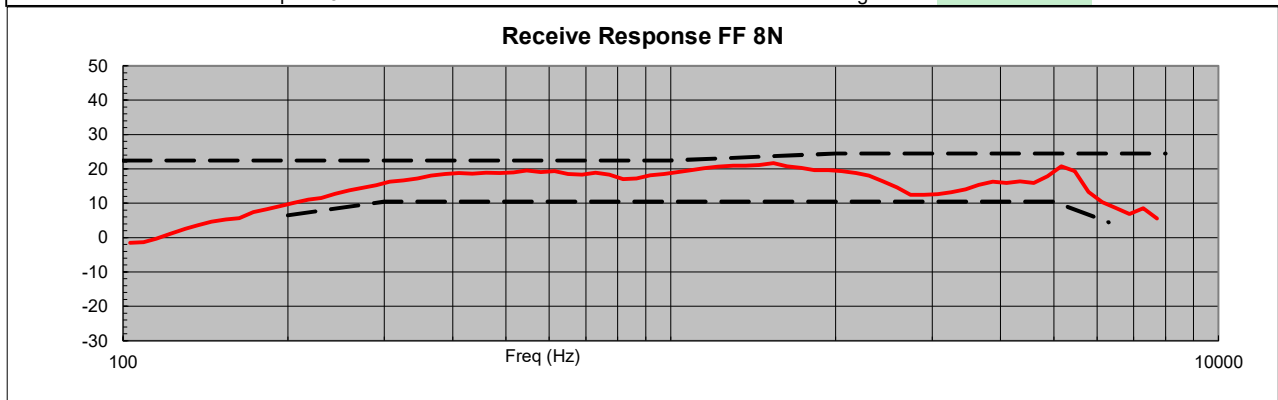
Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	5.1 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	



TIA-5050 Receive Volume Control Measurements - 8N

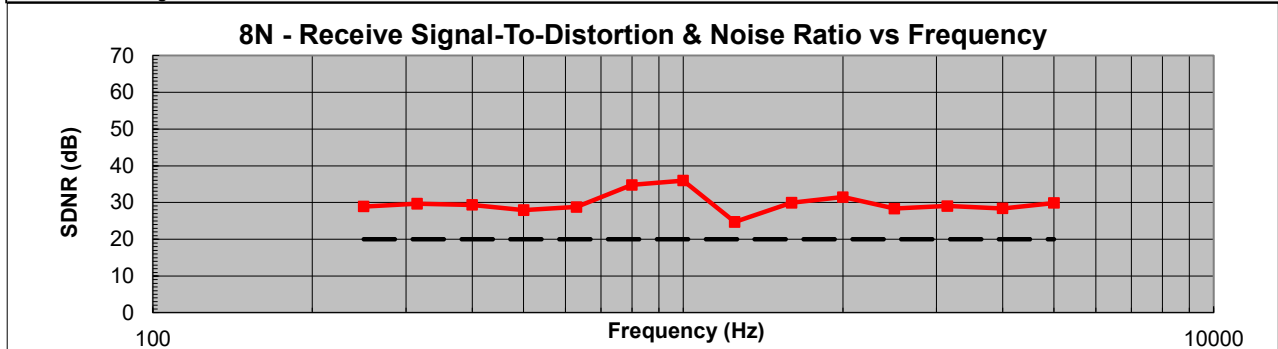
Device Under Test:	11a_Ant1_WB_8N
Bandwidth	Wideband
Test Date:	2025-05-03

Receive Volume Control Performance

TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	89.34 dB	info only		
	Recv conversational gain 8N	19.34 dB	6.00	PASS	

Receive Distortion and Noise Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	4.7 dB	Absolute Limits	PASS	
Note: SDNR includes noise and distortion products.					
Stimulus level				-20 dBPa	
Sentence conditioning				-20 dBPa	
Short conditioning				-20 dBPa	



Receive Acoustic Frequency Response Performance

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.22 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.7 dB	Floating Limits	PASS	

