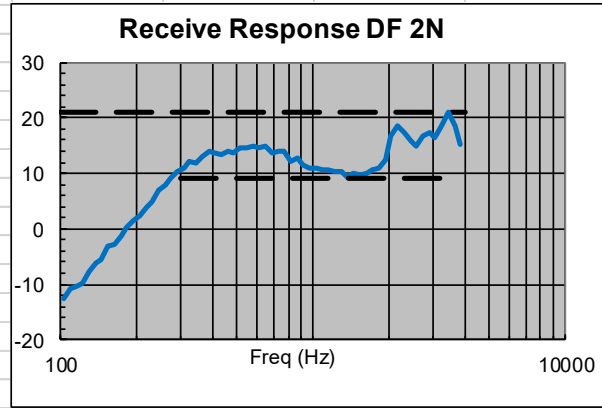
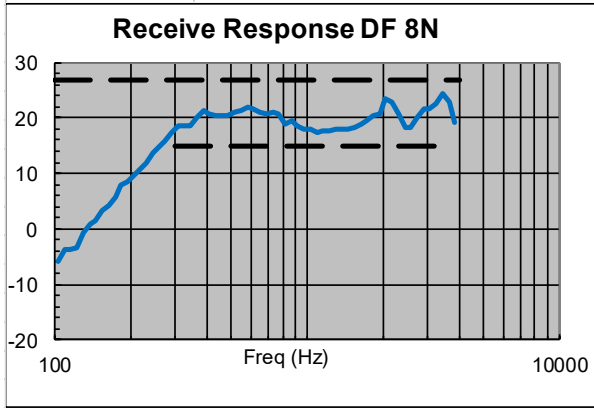
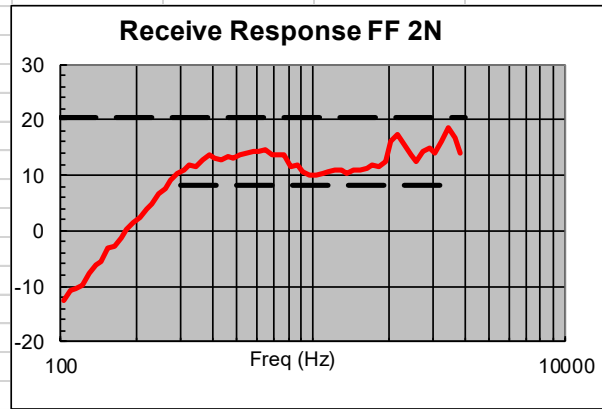
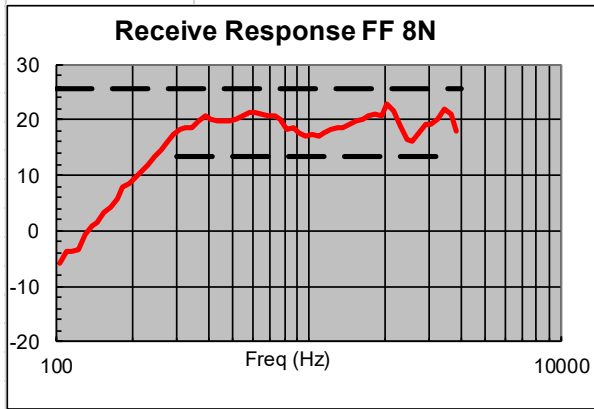


**LTE Band 25 EVS-NB: 9.6 kbps 1,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.57 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.67 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.2 dB	Floating Limits	PASS	



**Output**

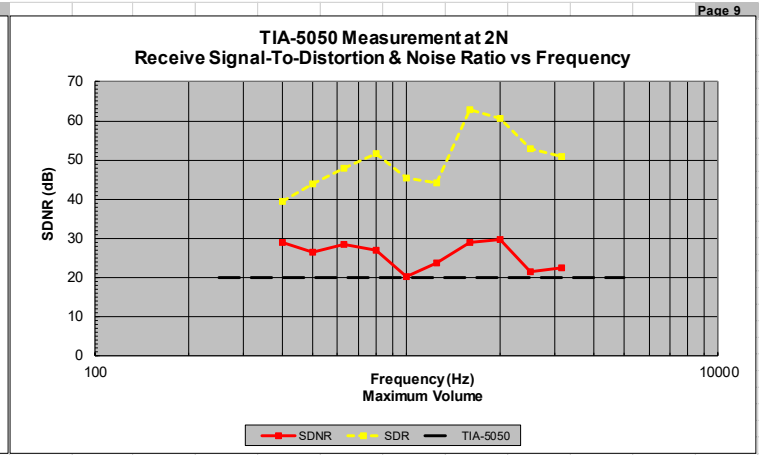
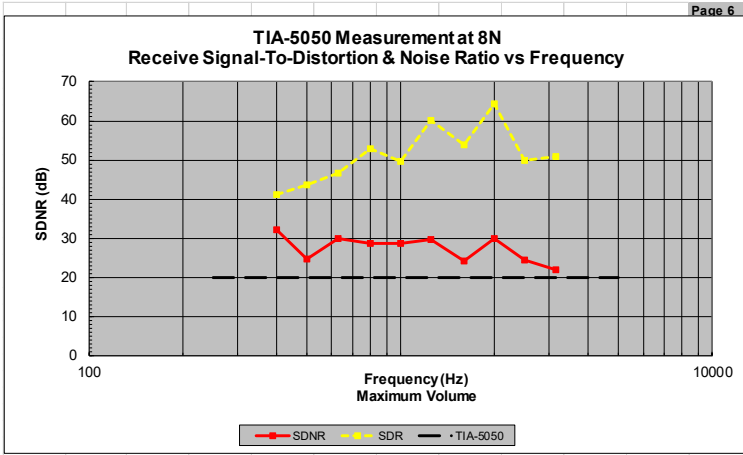
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.38 dB	info only		
	Recv conversational gain 8N	20.38 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.61 dB	info only		
	Recv conversational gain 2N	13.61 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.28 dB	Absolute Limits	PASS	

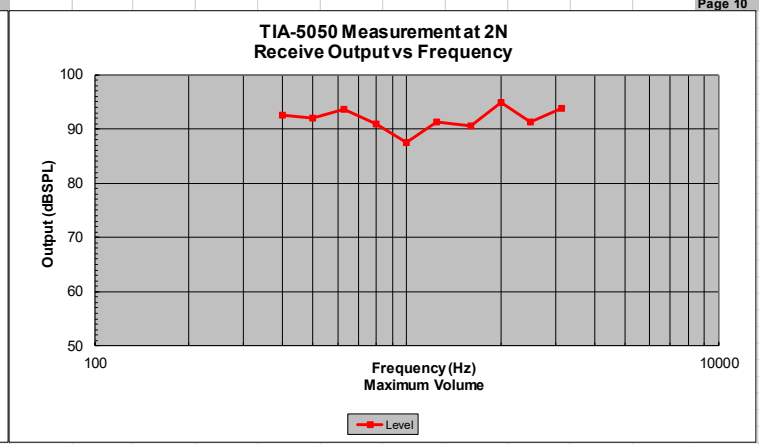
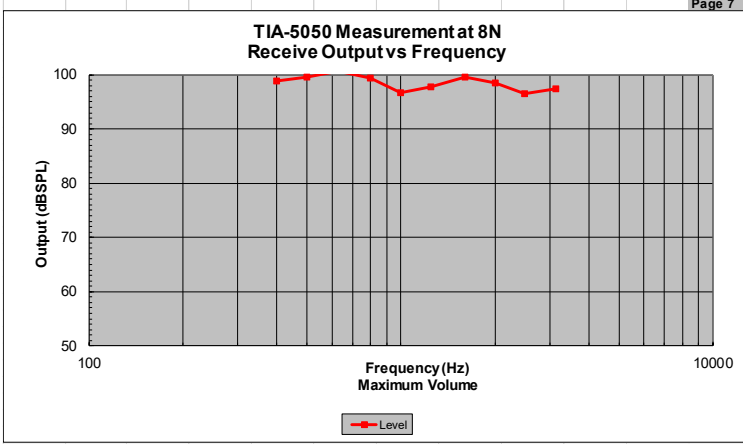
# LTE Band 25 EVS-NB: 9.6 kbps 1,0 RB QPSK

## Distortion Report



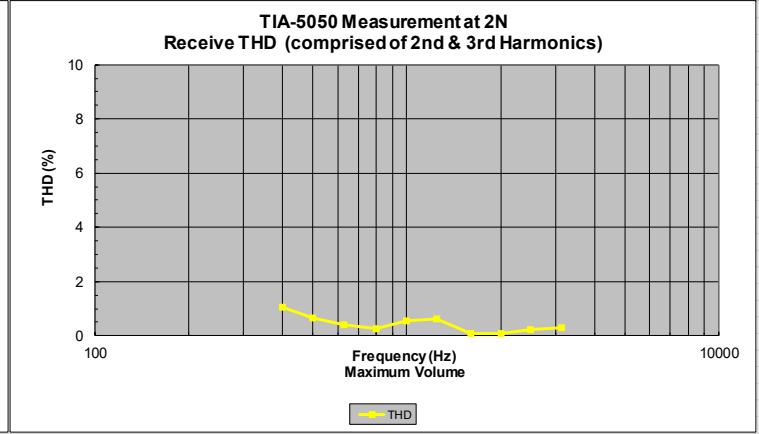
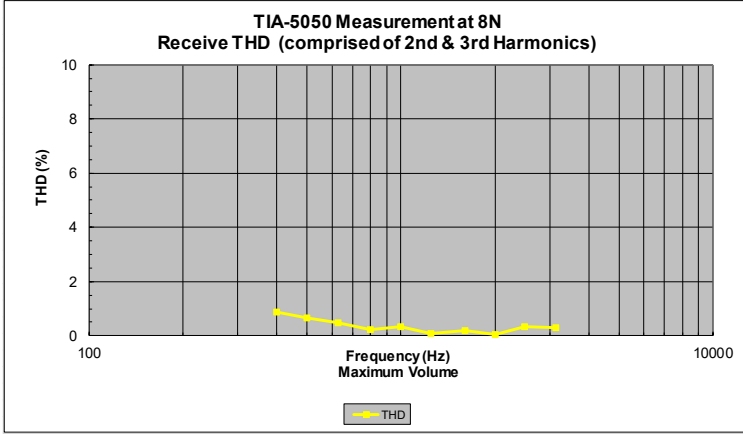
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	6/23/2025 15:33
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.28 dB	Absolute Limits	PASS	6/23/2025 15:33
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 15:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 15:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 15:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 15:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

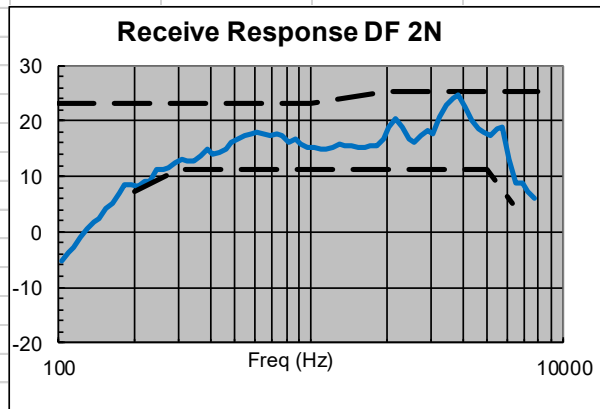
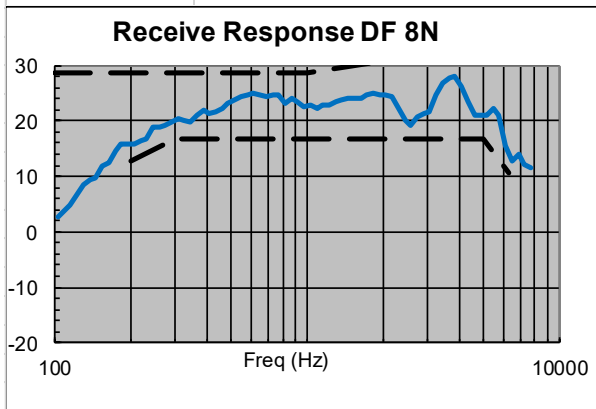
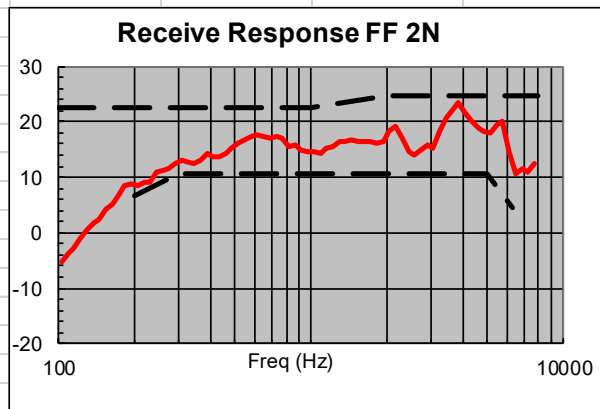
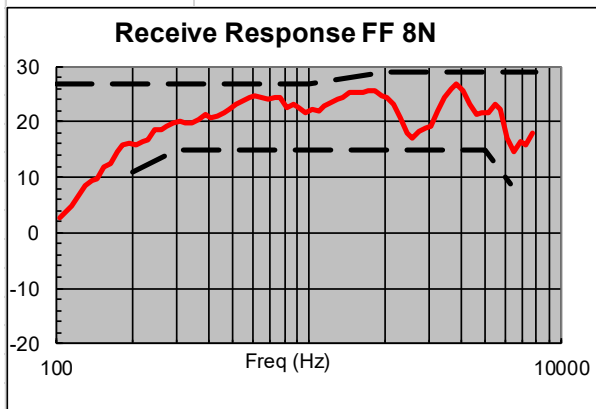
**LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.6 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.11 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.5 dB	Floating Limits	PASS	



**Output**

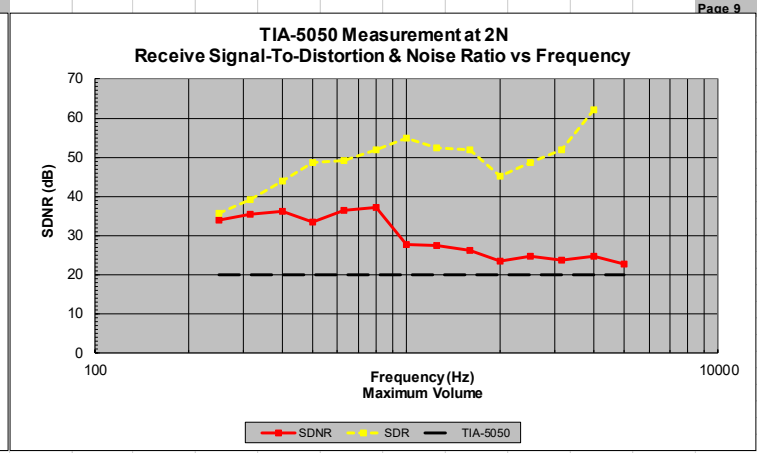
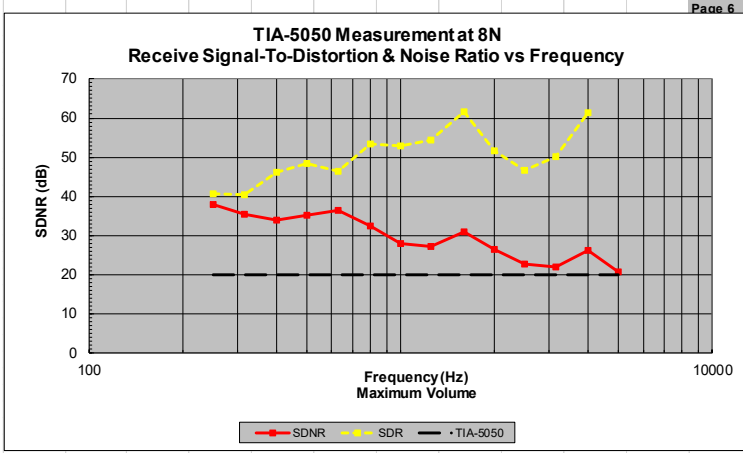
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	93.48 dB	info only		
	Recv conversational gain 8N	23.48 dB	18.00	PASS	
	Recv output level dBSPL 2N	86.42 dB	info only		
	Recv conversational gain 2N	16.42 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.64 dB	Absolute Limits	PASS	

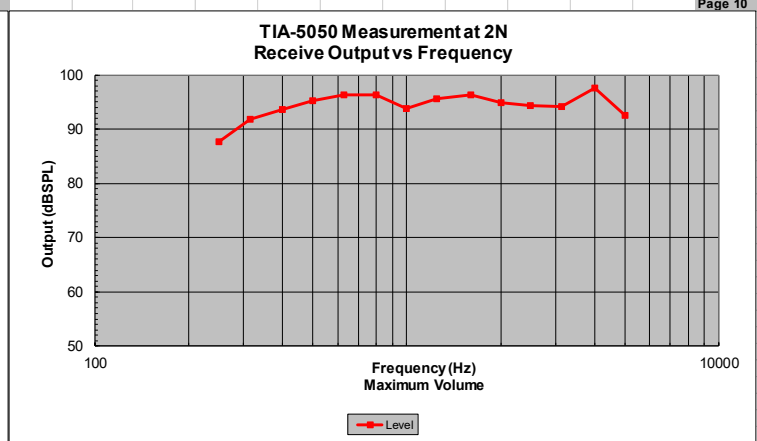
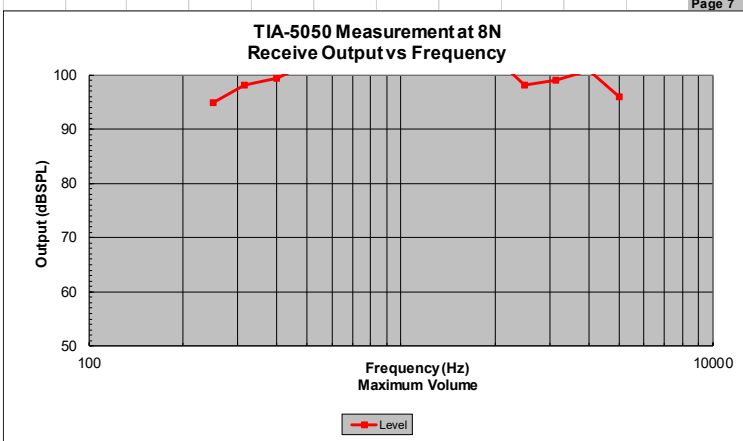
# LTE Band 25 EVS-WB: 24.4 kbps 1,0 RB QPSK

## Distortion Report



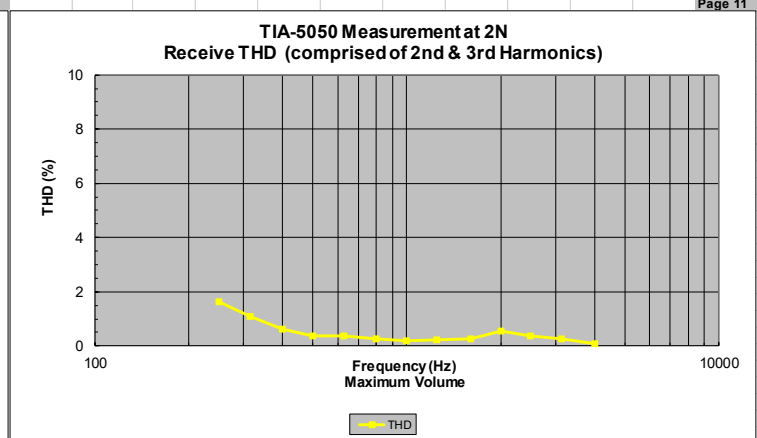
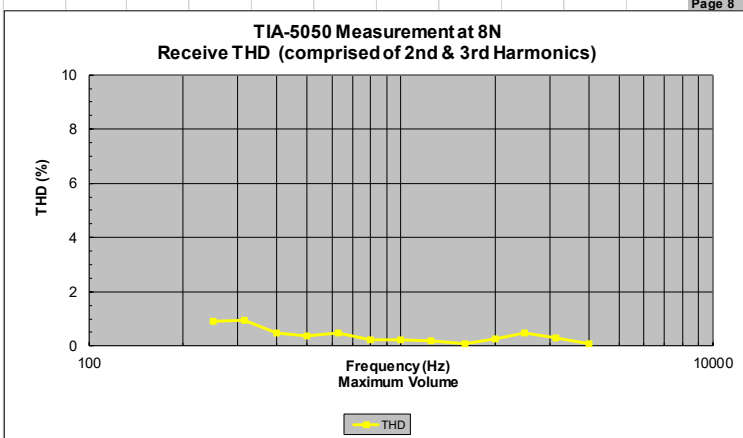
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.8 dB	Absolute Limits	PASS	6/23/2025 15:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.64 dB	Absolute Limits	PASS	6/23/2025 15:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	24.4 kbps			



Test Date
6/23/2025 15:41
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/23/2025 15:41
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps



Test Date
6/23/2025 15:41
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

Test Date
6/23/2025 15:41
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 24.4 kbps

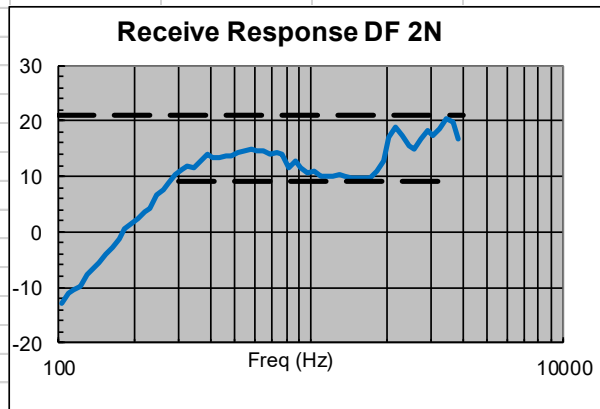
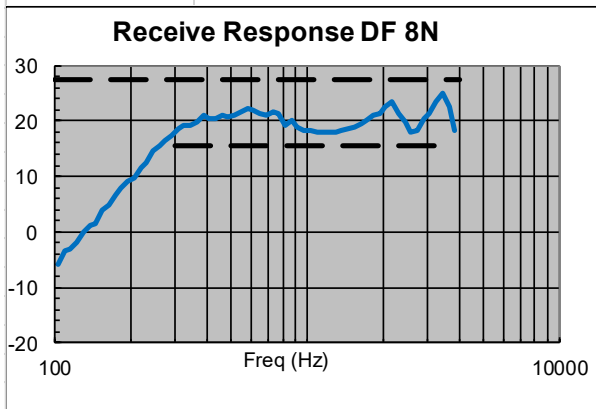
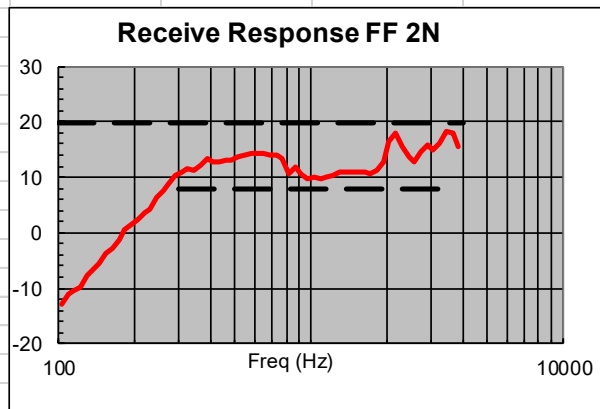
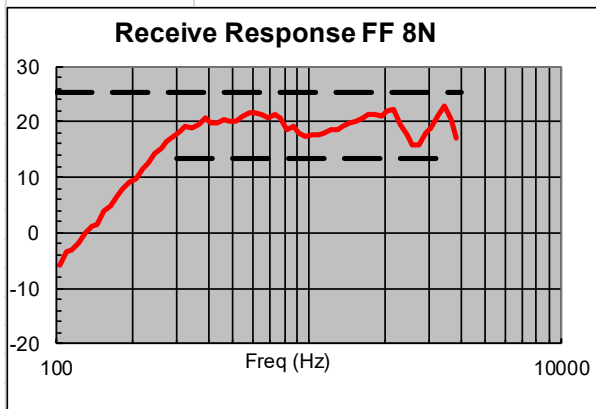
**LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 100RB EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.49 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.37 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.78 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.6 dB	Floating Limits	PASS	



**Output**

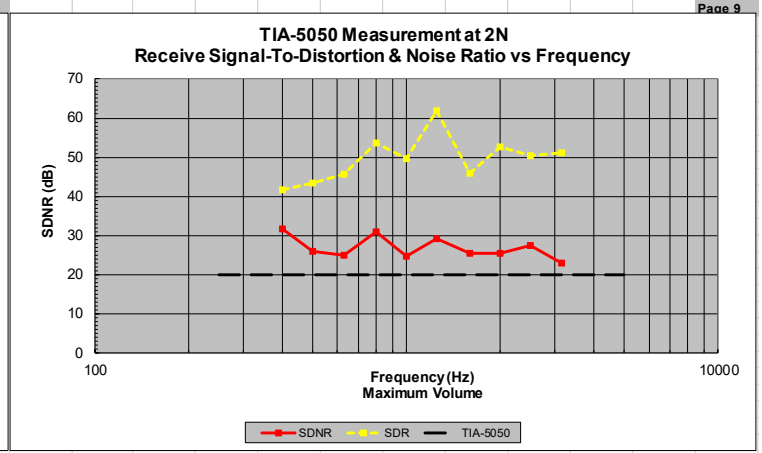
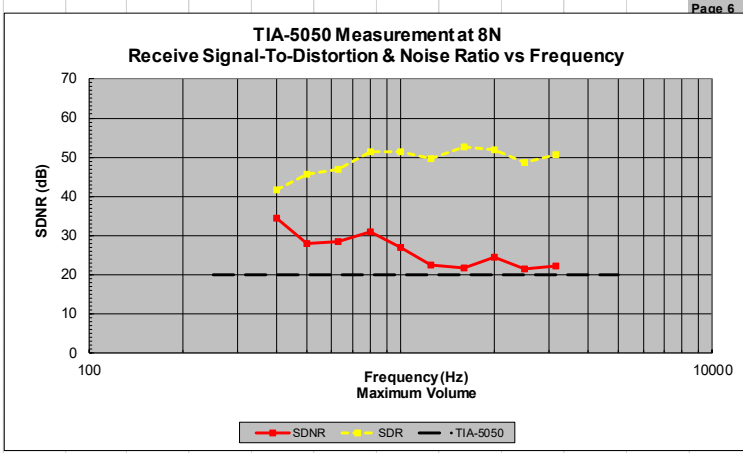
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	90.66 dB	info only		
	Recv conversational gain 8N	20.66 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.51 dB	info only		
	Recv conversational gain 2N	13.51 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.86 dB	Absolute Limits	PASS	

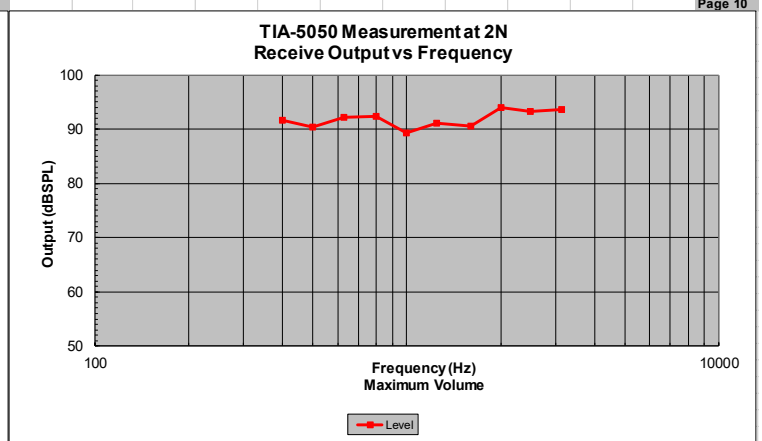
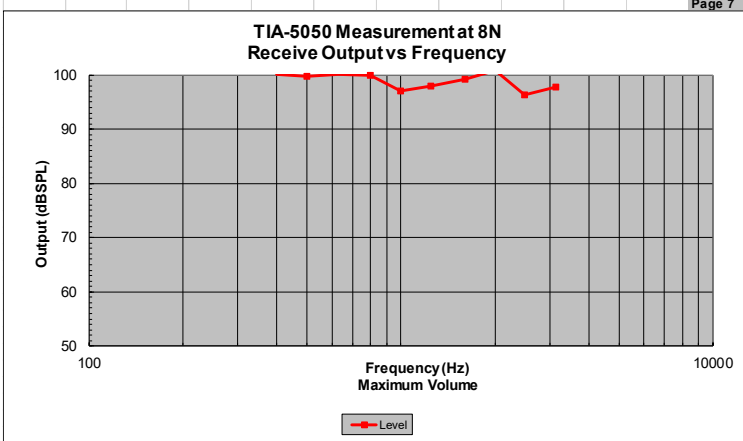
# LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



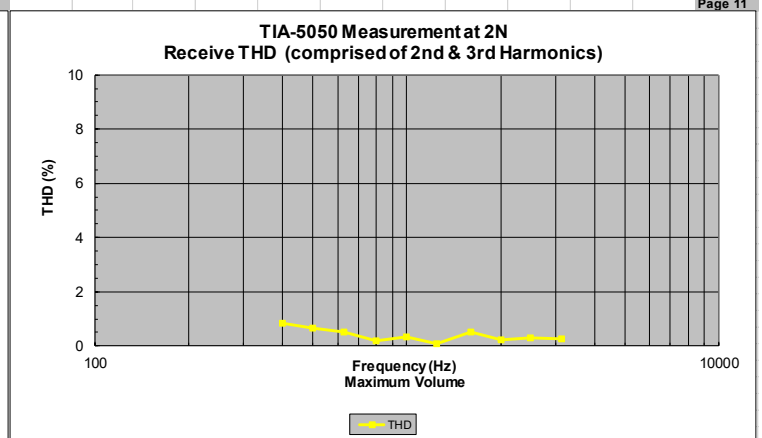
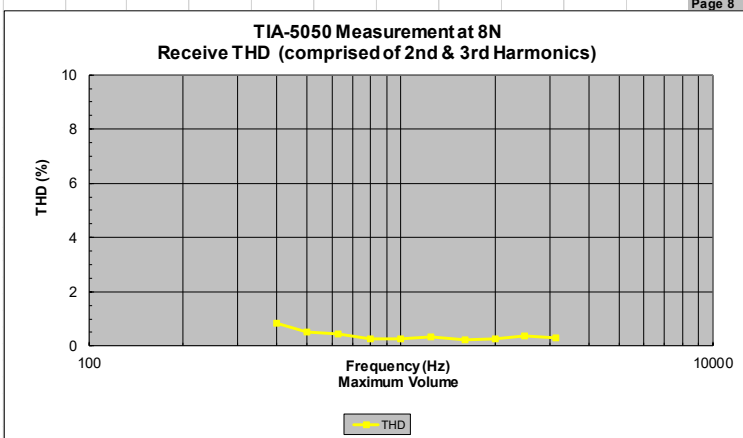
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	6/23/2025 16:00
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.86 dB	Absolute Limits	PASS	6/23/2025 16:00
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 16:00	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 16:00	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 16:00	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

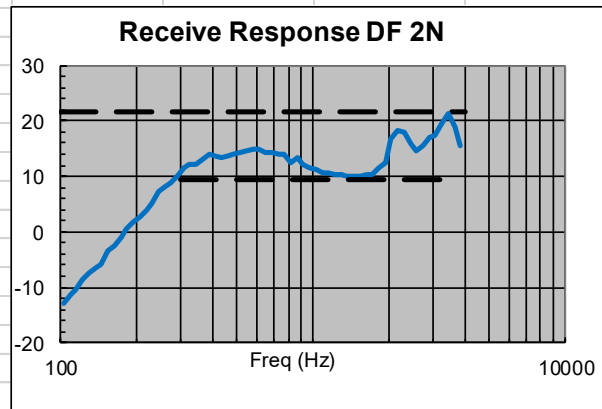
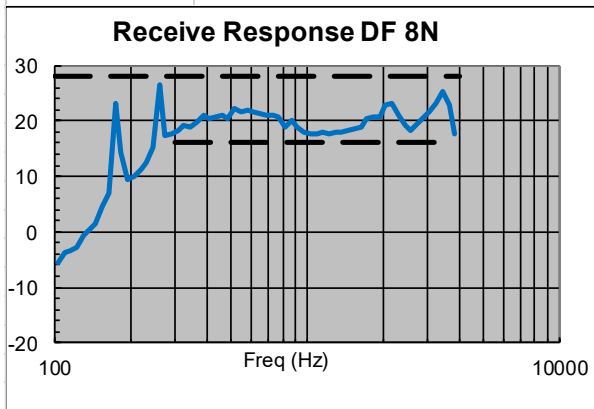
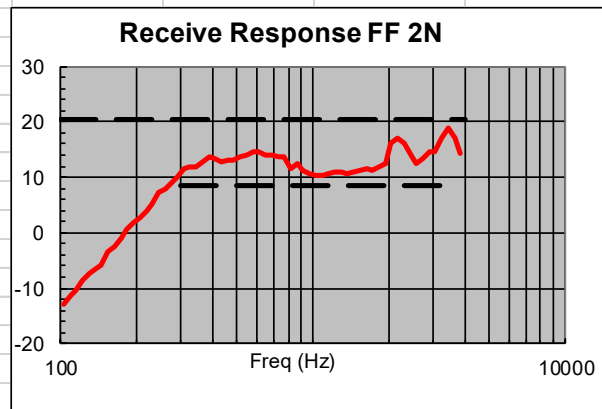
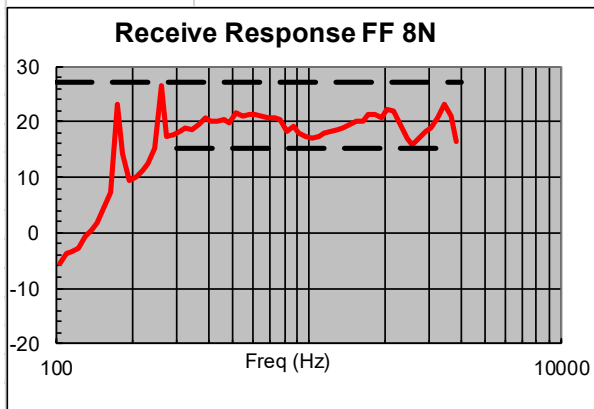
Test Date	
6/23/2025 16:00	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 16QAM EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.76 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.57 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.69 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.35 dB	Floating Limits	PASS	



**Output**

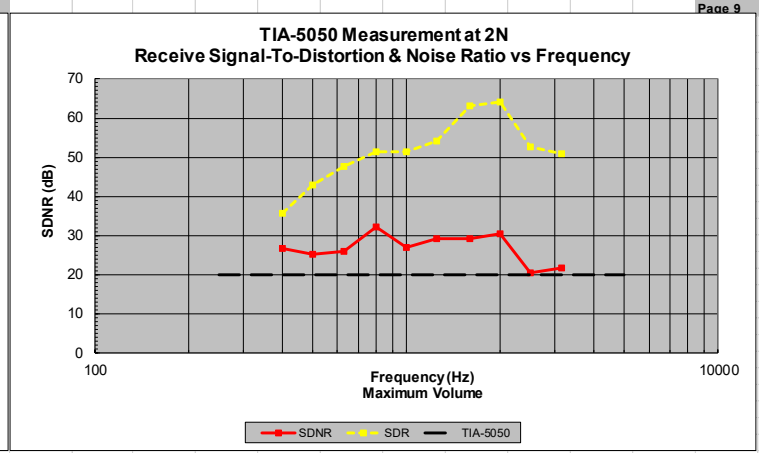
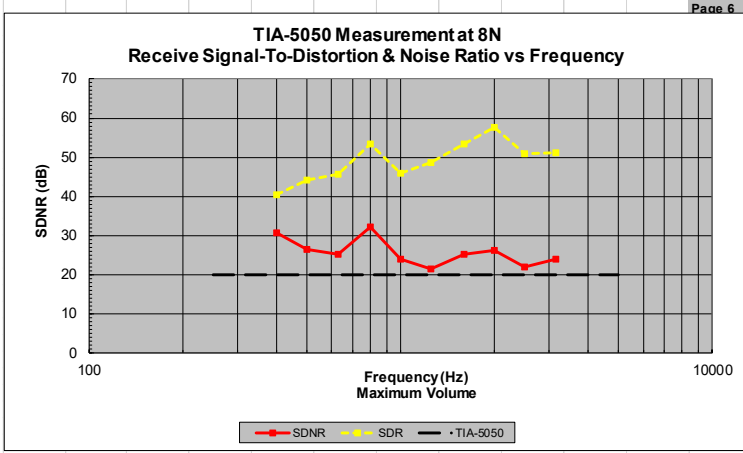
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.09 dB	info only		
	Recv conversational gain 8N	21.09 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.67 dB	info only		
	Recv conversational gain 2N	13.67 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.44 dB	Absolute Limits	PASS	

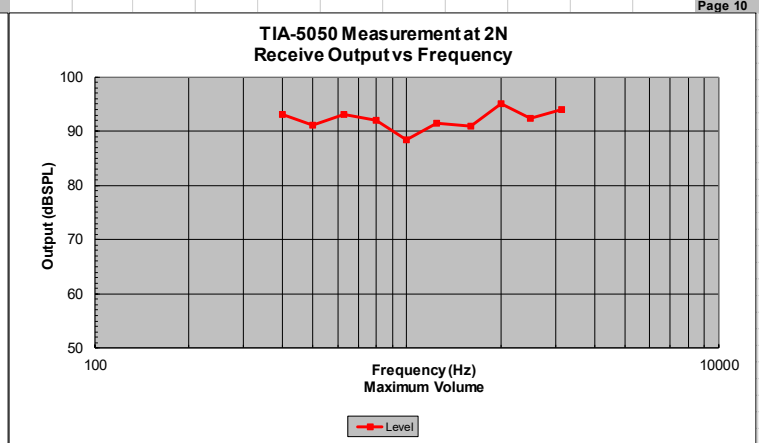
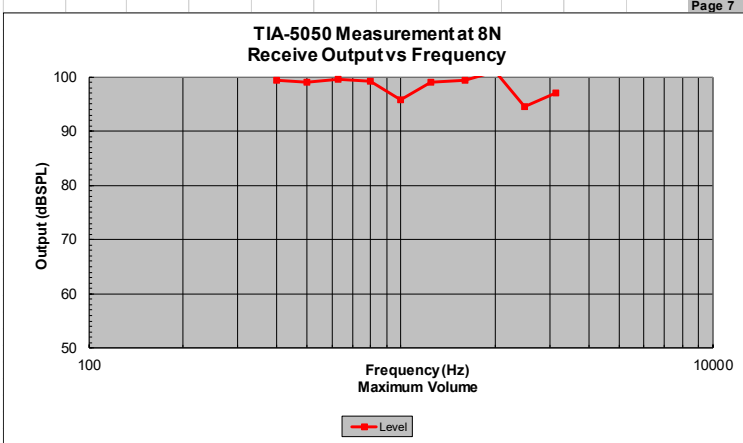
# LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB 16QAM

## Distortion Report



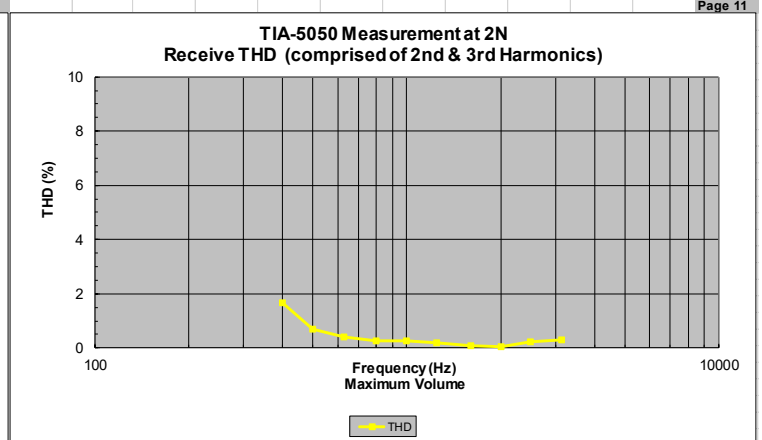
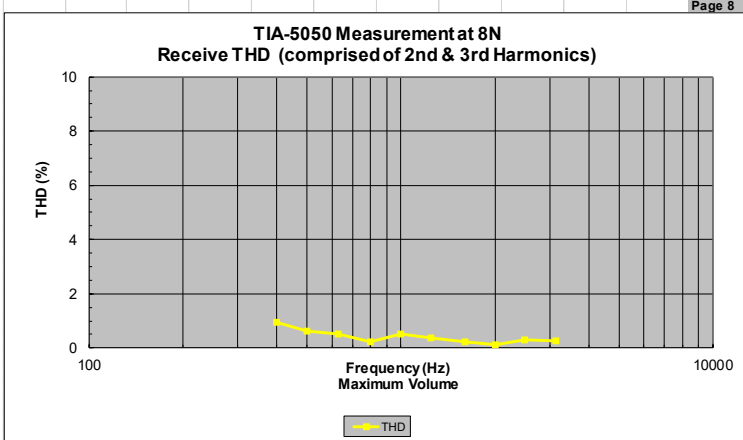
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	6/23/2025 16:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.44 dB	Absolute Limits	PASS	6/23/2025 16:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			



Test Date
6/23/2025 16:13
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
6/23/2025 16:13
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps



Test Date
6/23/2025 16:13
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
6/23/2025 16:13
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps



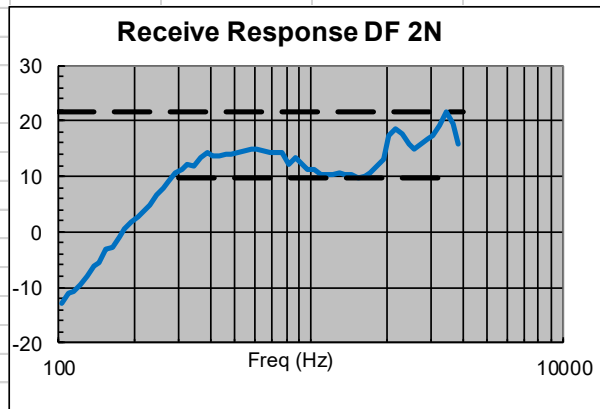
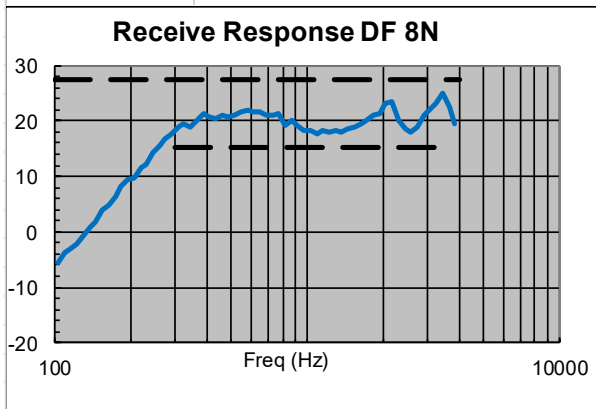
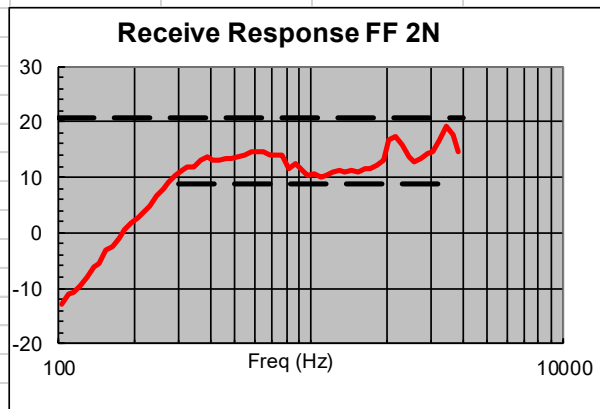
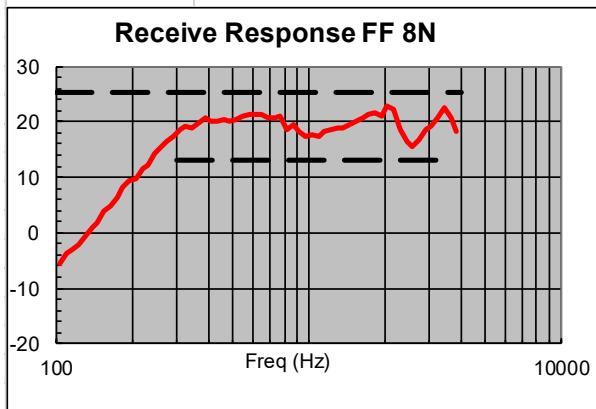
**LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB 64QAM  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 64QAM EVS-NB
<b>Bandwidth:</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.43 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.44 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.42 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.01 dB	Floating Limits	PASS	



**Output**

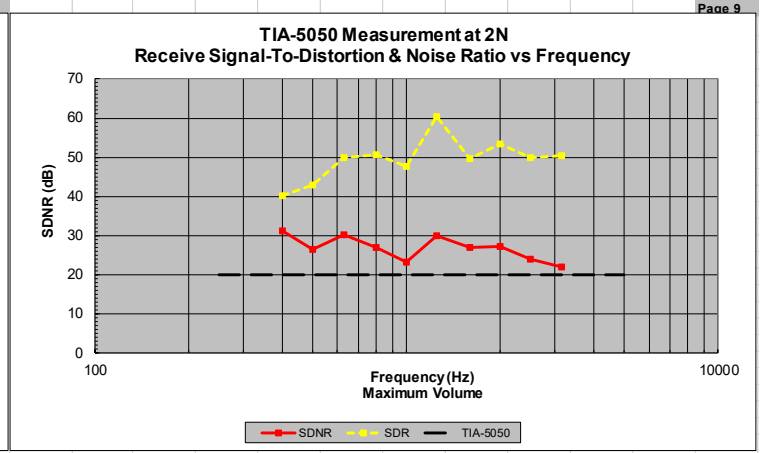
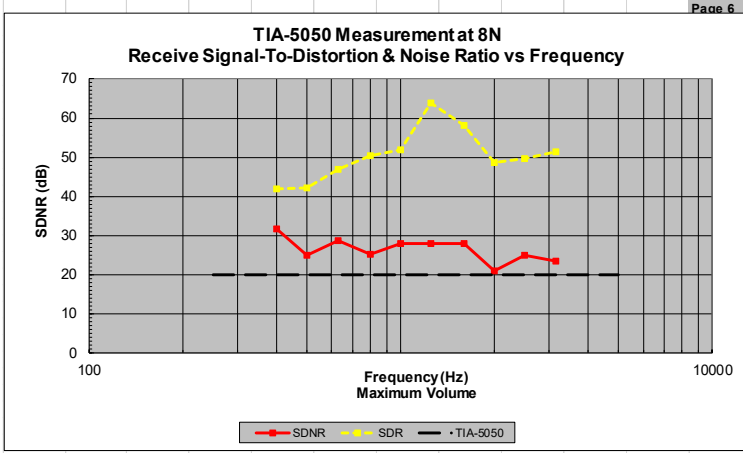
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.67 dB	info only		
	Recv conversational gain 8N	20.67 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.78 dB	info only		
	Recv conversational gain 2N	13.78 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.9 dB	Absolute Limits	PASS	

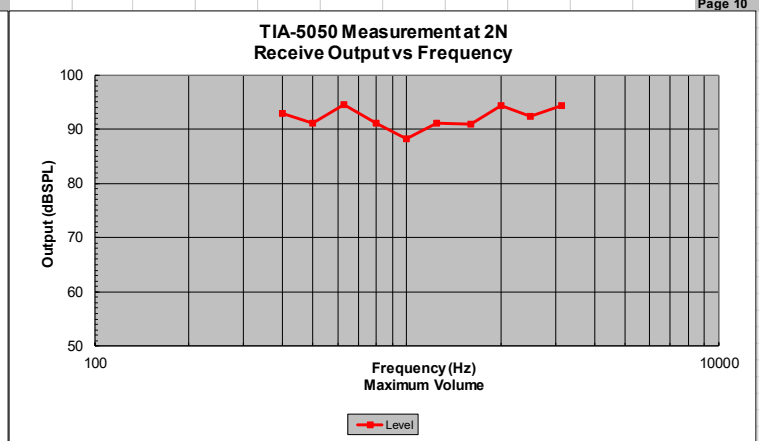
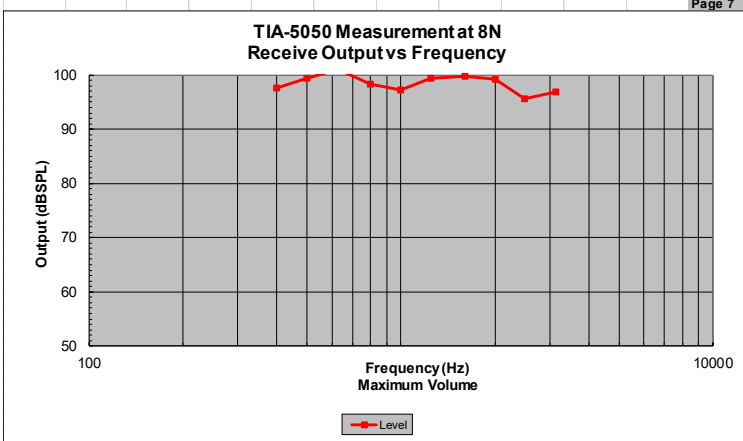
# LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB 64QAM

## Distortion Report



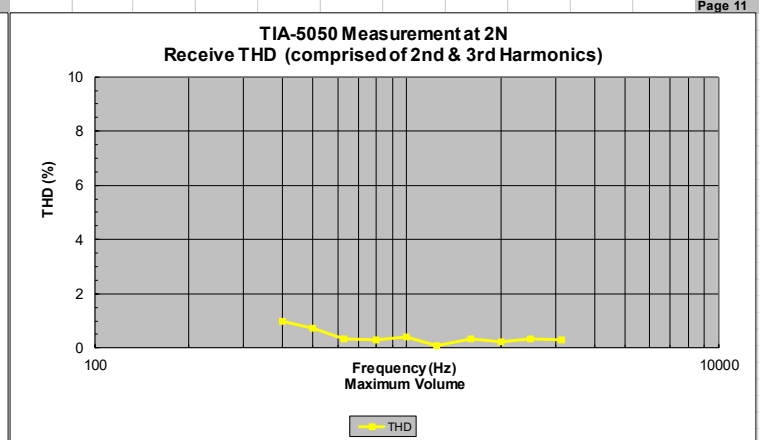
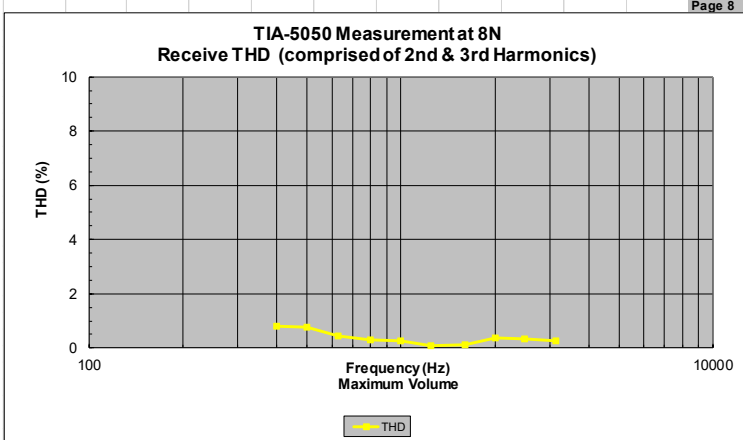
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.9 dB	Absolute Limits	PASS	6/23/2025 16:22
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.9 dB	Absolute Limits	PASS	6/23/2025 16:22
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 16:22	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 16:22	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 16:22	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

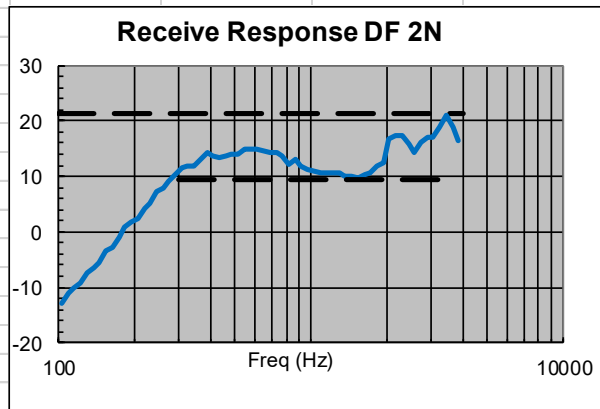
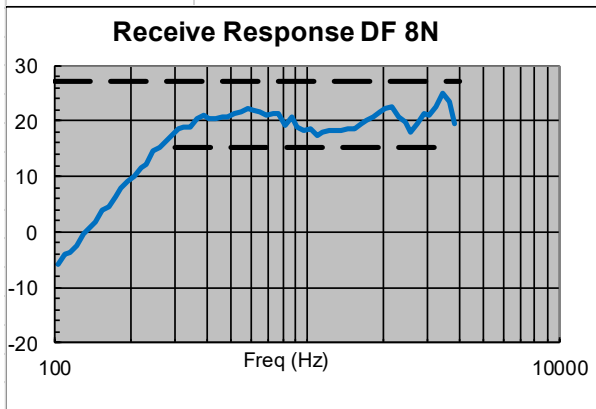
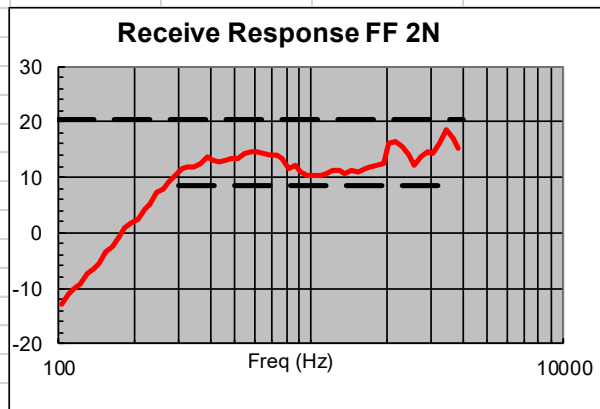
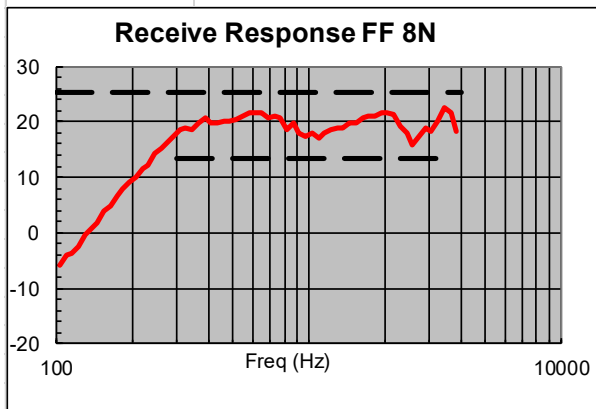
Test Date	
6/23/2025 16:22	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB 256QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 256QAM EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.55 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.2 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.85 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.44 dB	Floating Limits	PASS	



**Output**

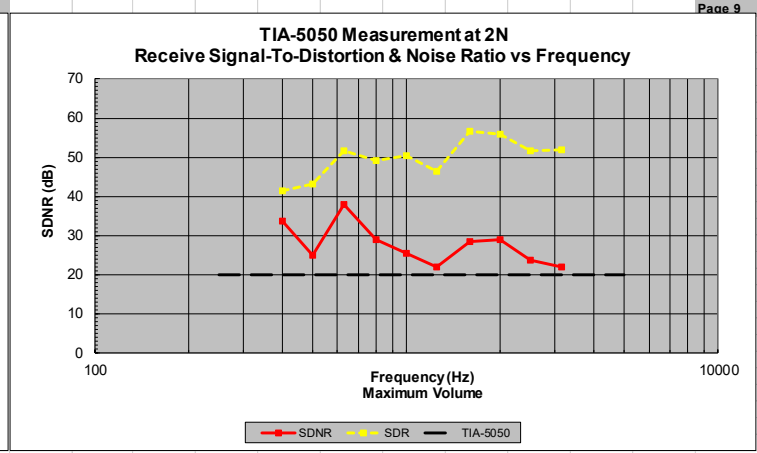
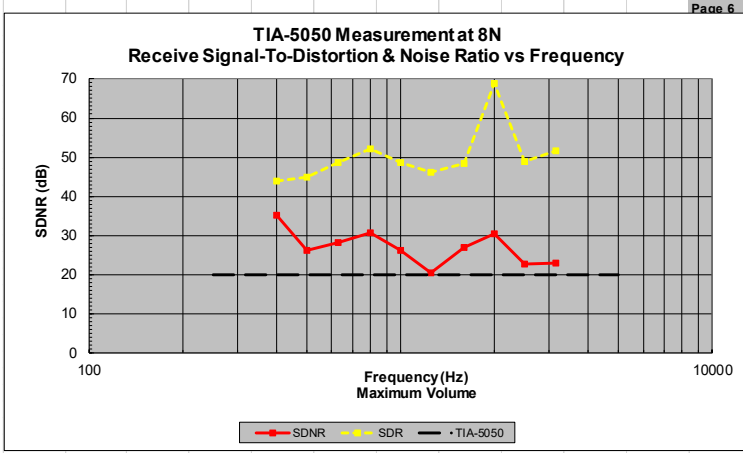
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.66 dB	info only		
	Recv conversational gain 8N	20.66 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.67 dB	info only		
	Recv conversational gain 2N	13.67 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.89 dB	Absolute Limits	PASS	

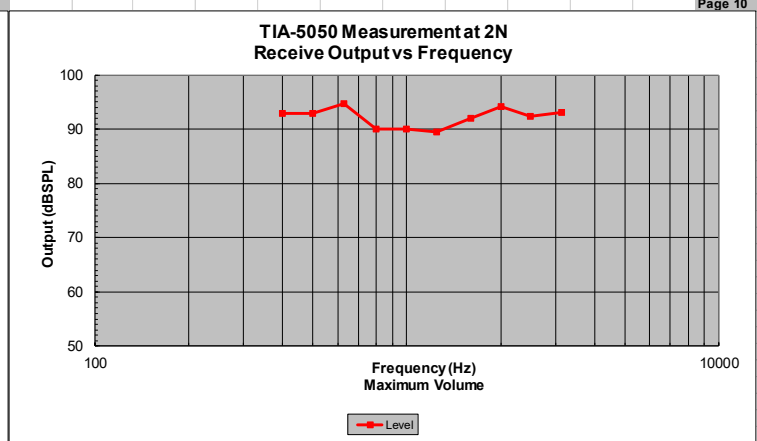
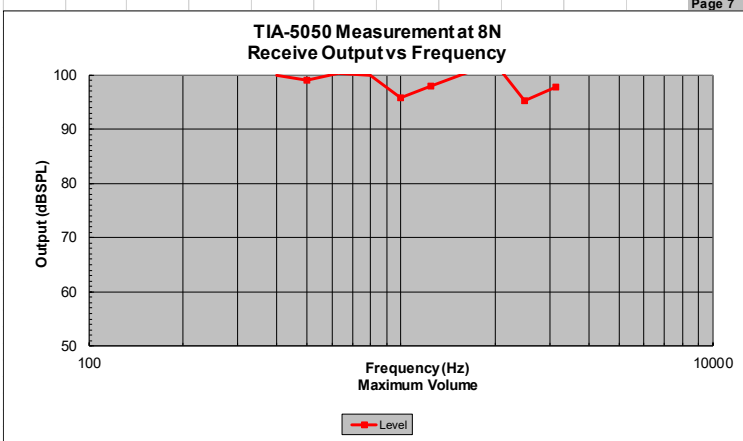
# LTE Band 25 EVS-NB: 9.6 kbps 100,0 RB 256QAM

## Distortion Report



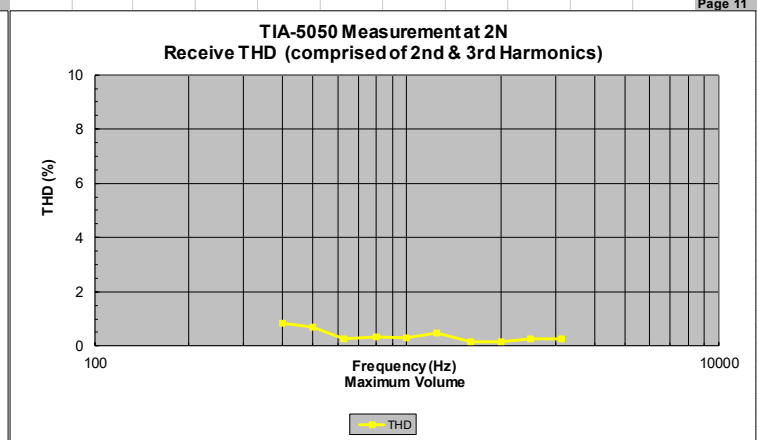
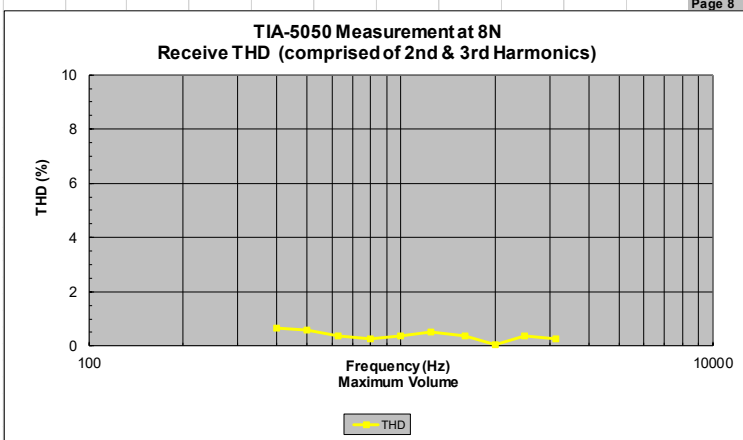
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	6/23/2025 16:29
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.89 dB	Absolute Limits	PASS	6/23/2025 16:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 16:29	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 16:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 16:29	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

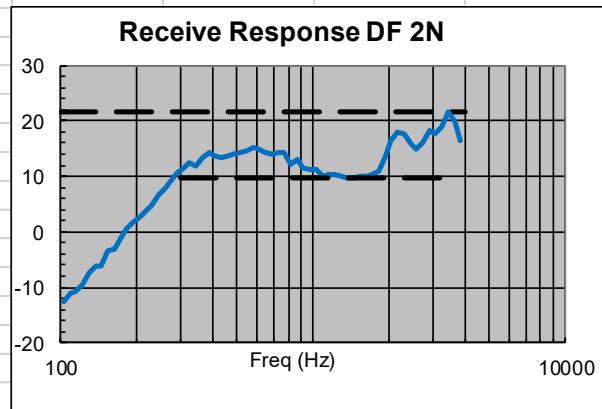
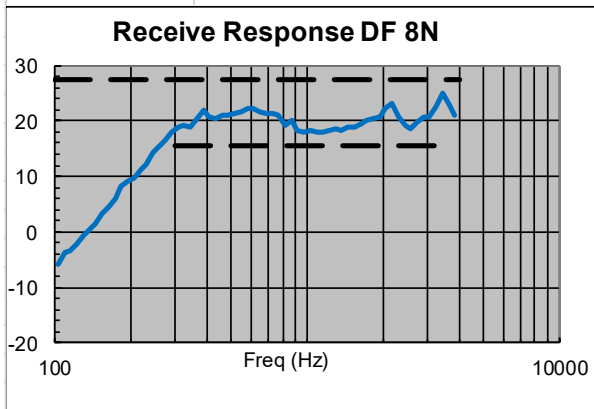
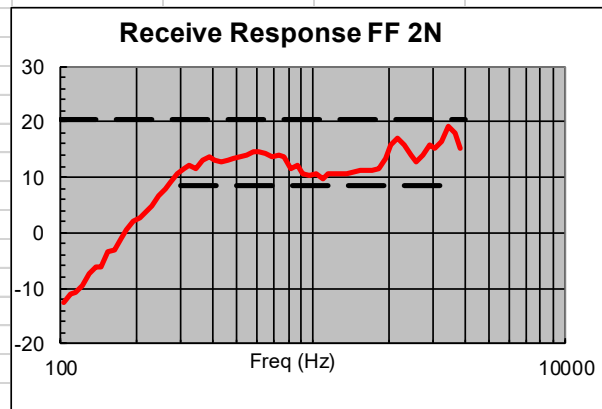
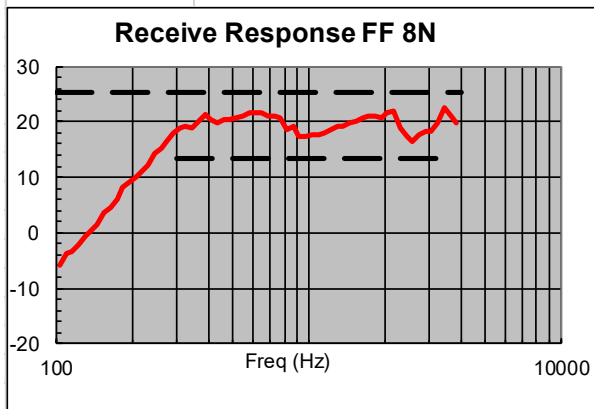
Test Date	
6/23/2025 16:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**LTE Band 25 EVS-NB: 9.6 kbps 6,0 RB 1.4 MHz QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B25 1.4MHz EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.86 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.51 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.28 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.11 dB	Floating Limits	PASS	



**Output**

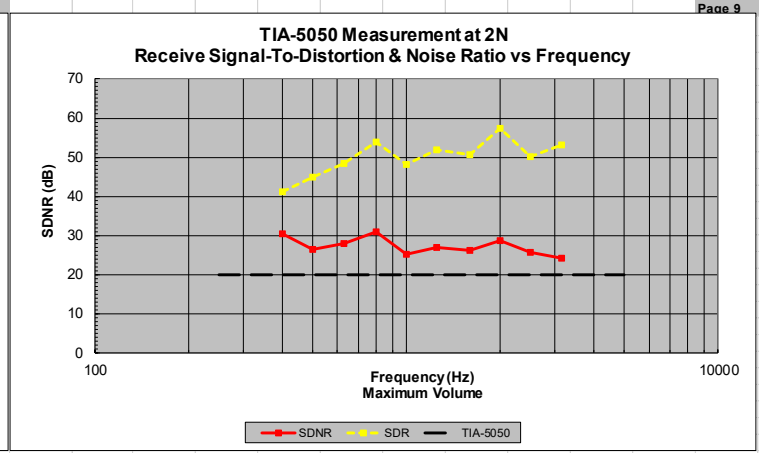
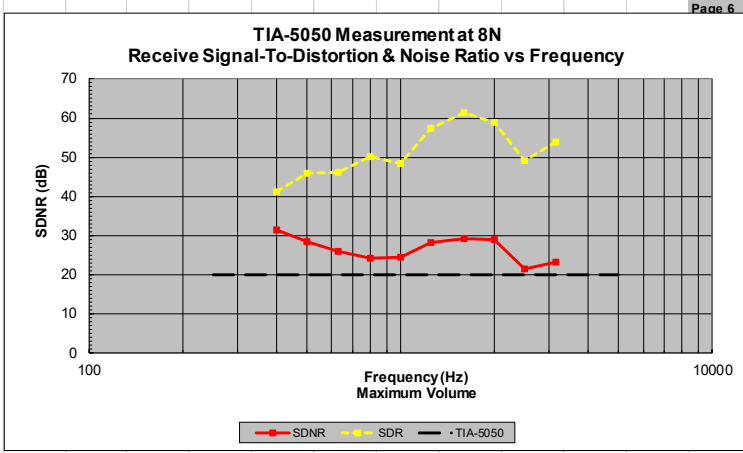
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.76 dB	info only		
	Recv conversational gain 8N	20.76 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.7 dB	info only		
	Recv conversational gain 2N	13.7 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	4.31 dB	Absolute Limits	PASS	

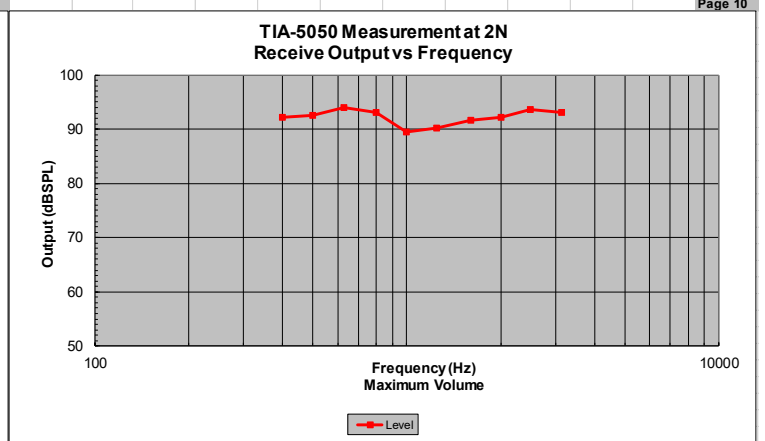
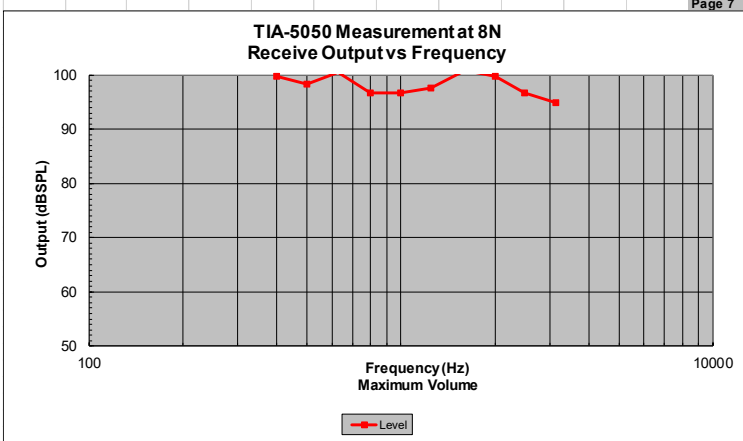
# LTE Band 25 EVS-NB: 9.6 kbps 6,0 RB 1.4 MHz QPSK

## Distortion Report



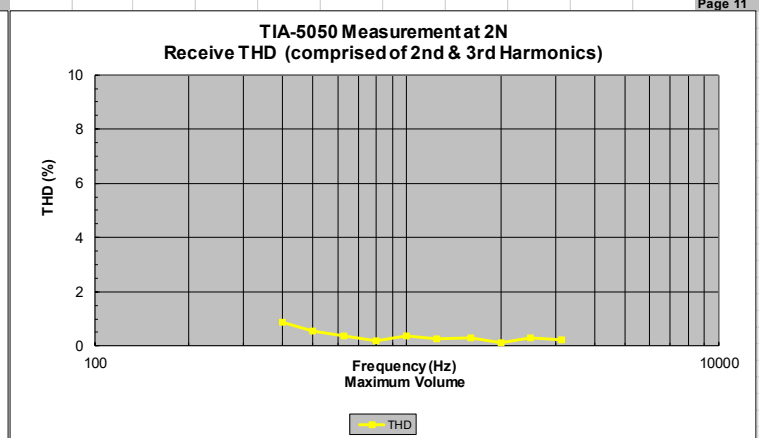
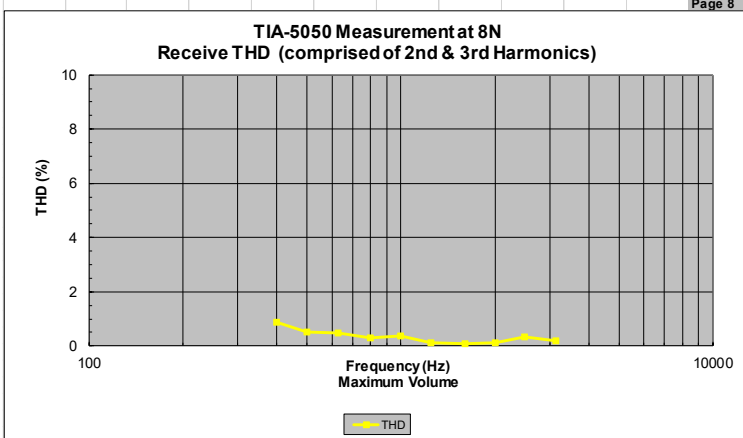
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	6/23/2025 16:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	4.31 dB	Absolute Limits	PASS	6/23/2025 16:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 16:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 16:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 16:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 16:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

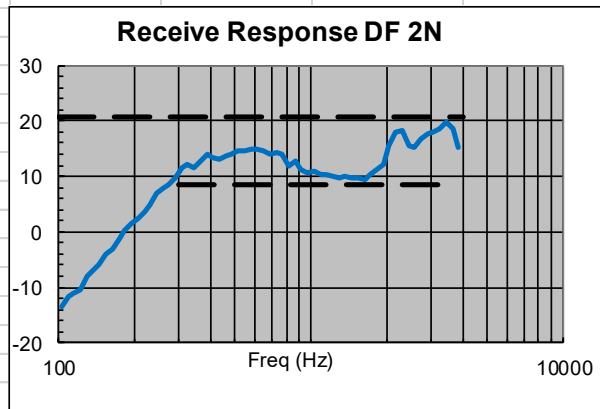
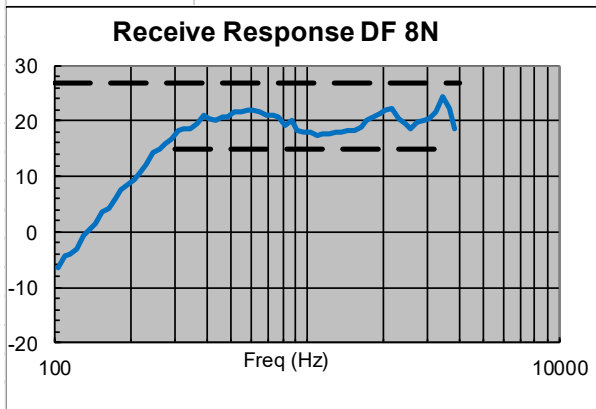
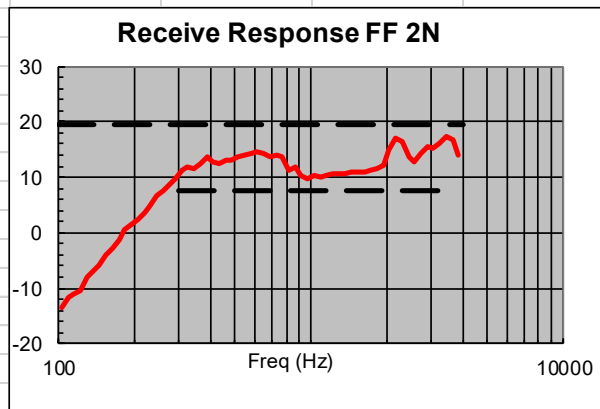
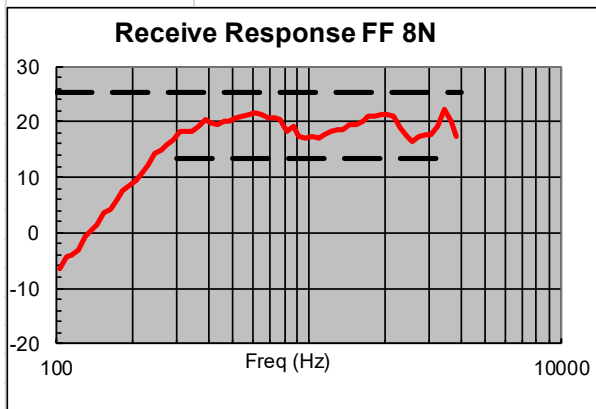
**LTE Band 7 EVS-NB: 9.6 kbps 100,0 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B7 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	3.09 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.23 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.93 dB	Floating Limits	PASS	



**Output**

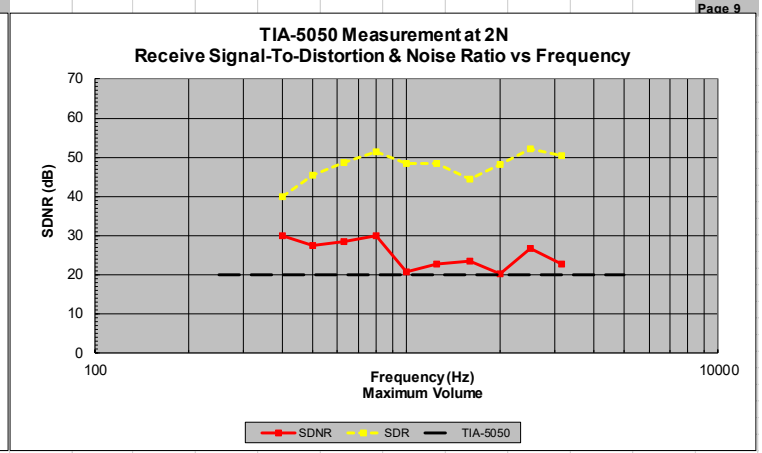
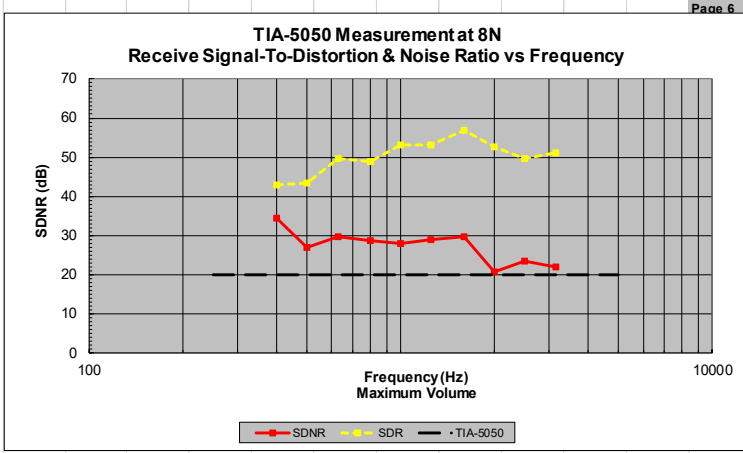
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	90.45 dB	info only		
	Recv conversational gain 8N	20.45 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.53 dB	info only		
	Recv conversational gain 2N	13.53 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.2 dB	Absolute Limits	PASS	

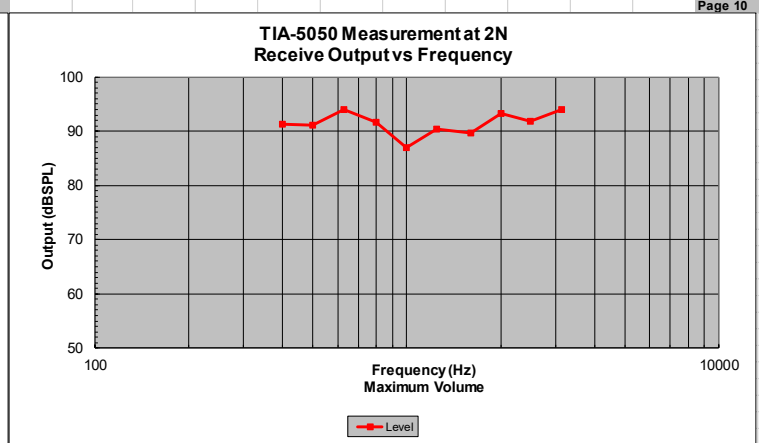
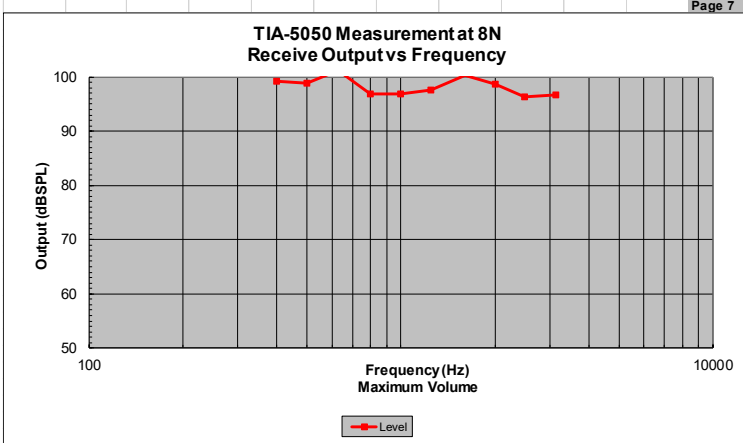
# LTE Band 7 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



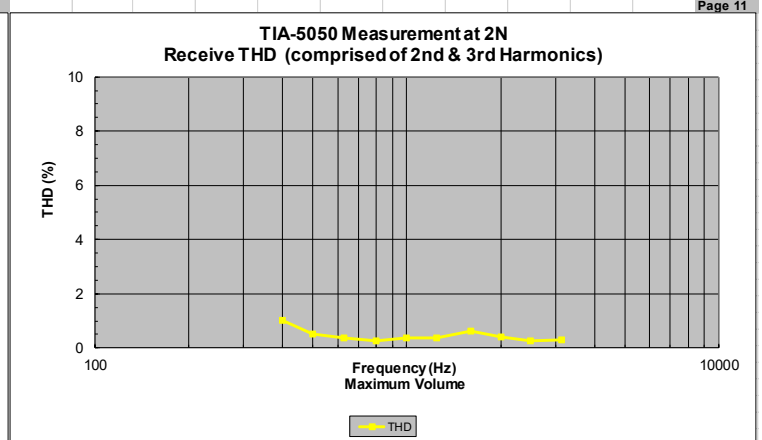
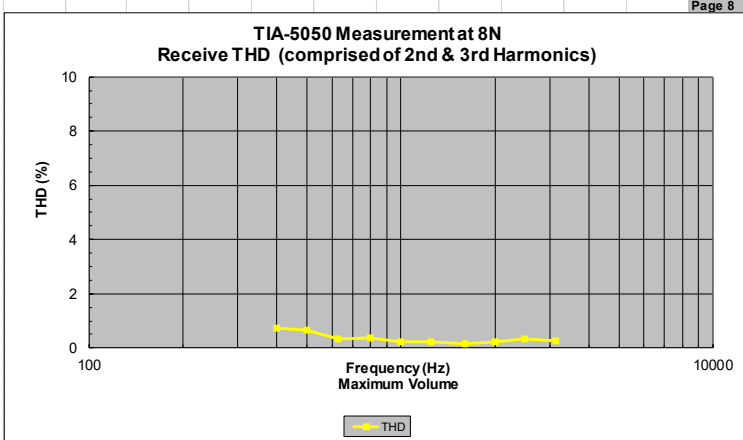
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.7 dB	Absolute Limits	PASS	6/23/2025 16:49
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.2 dB	Absolute Limits	PASS	6/23/2025 16:49
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			



Test Date
6/23/2025 16:49
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
6/23/2025 16:49
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps



Test Date
6/23/2025 16:49
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
6/23/2025 16:49
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

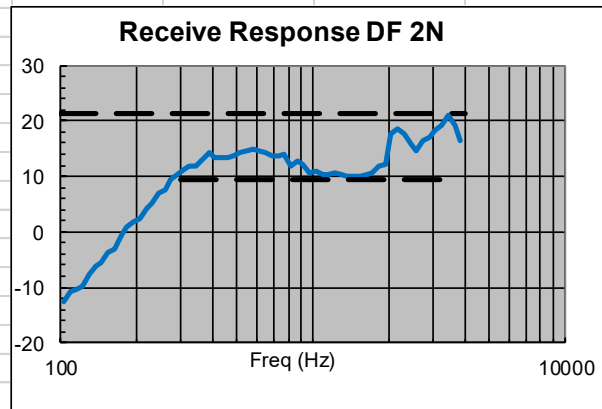
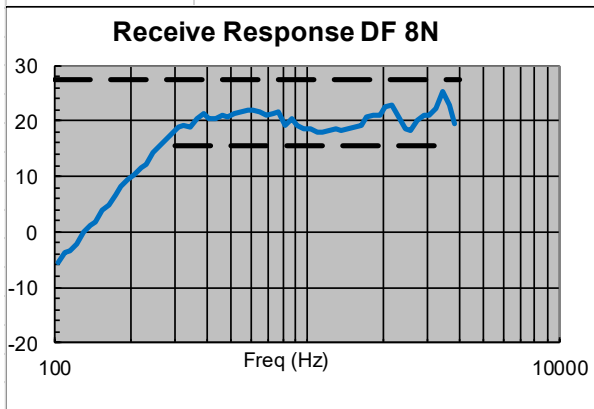
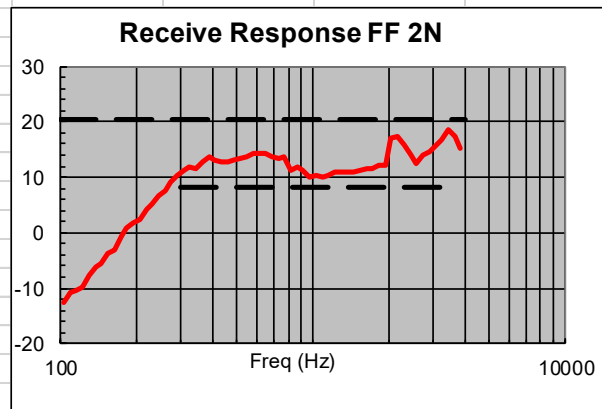
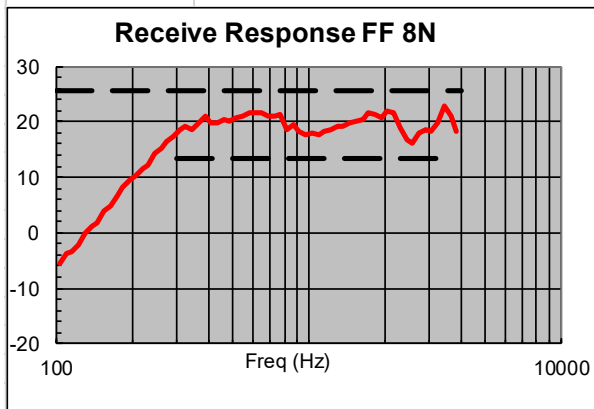


**LTE Band 12 EVS-NB: 9.6 kbps 50,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B12 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.53 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.61 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.43 dB	Floating Limits	PASS	



**Output**

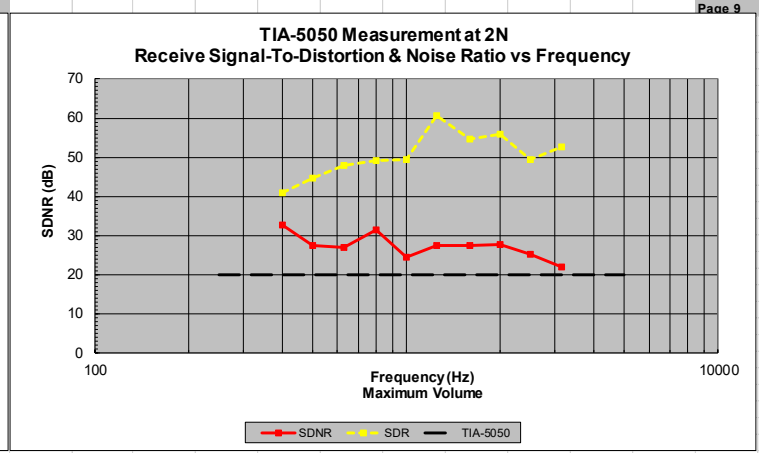
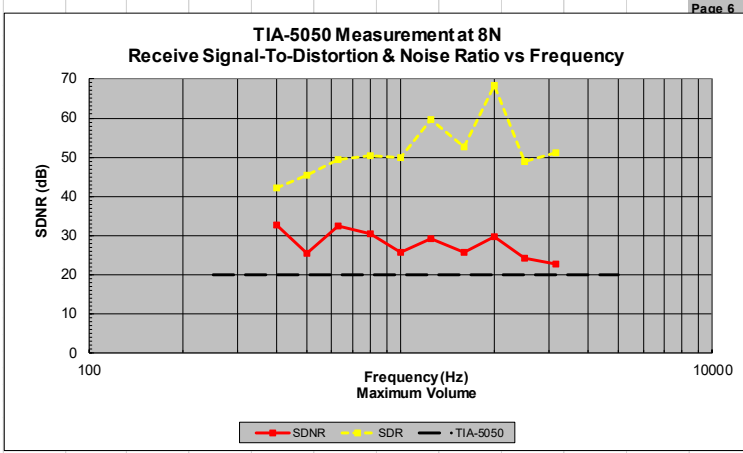
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	90.72 dB	info only		
	Recv conversational gain 8N	20.72 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.55 dB	info only		
	Recv conversational gain 2N	13.55 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.93 dB	Absolute Limits	PASS	

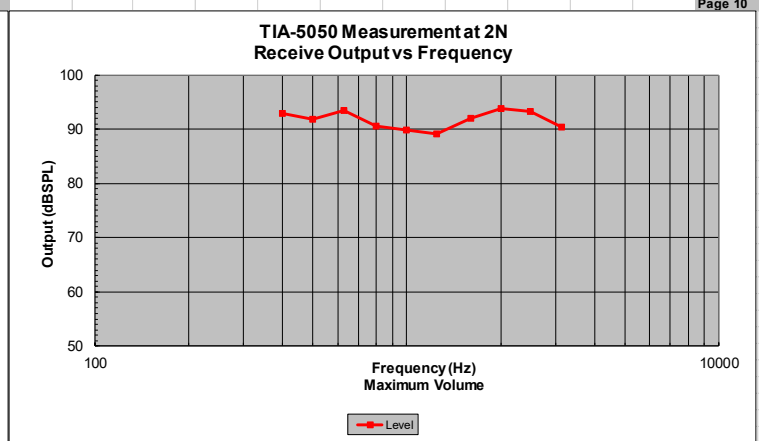
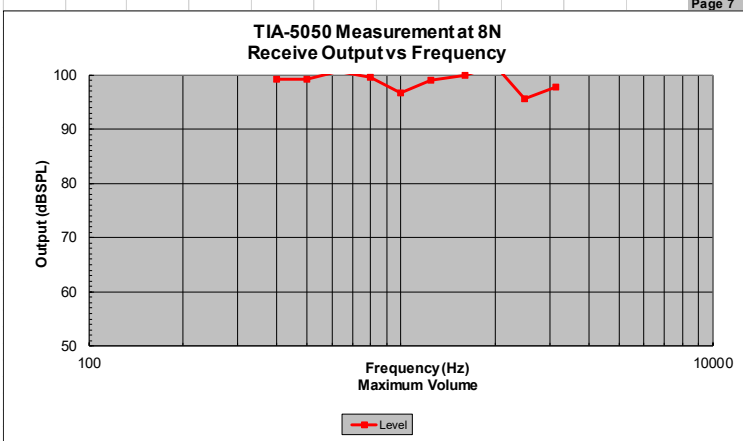
# LTE Band 12 EVS-NB: 9.6 kbps 50,0 RB QPSK

## Distortion Report



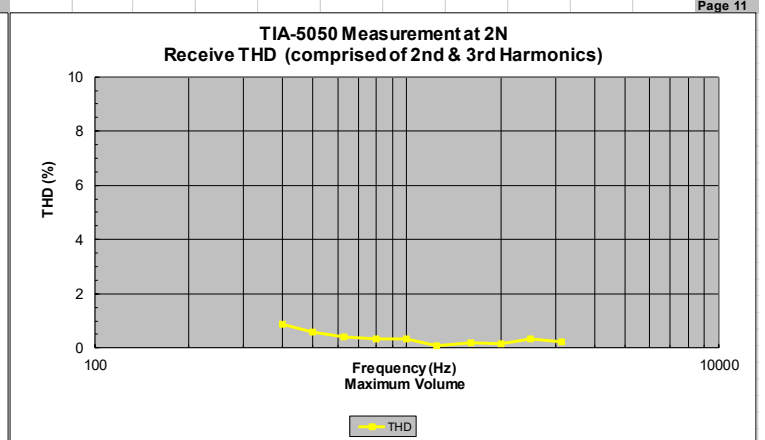
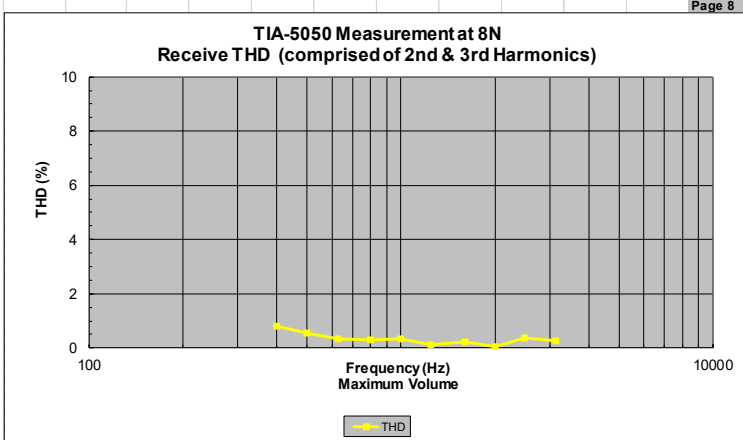
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.7 dB	Absolute Limits	PASS	6/23/2025 17:47
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.93 dB	Absolute Limits	PASS	6/23/2025 17:47
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 17:47	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 17:47	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 17:47	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 17:47	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

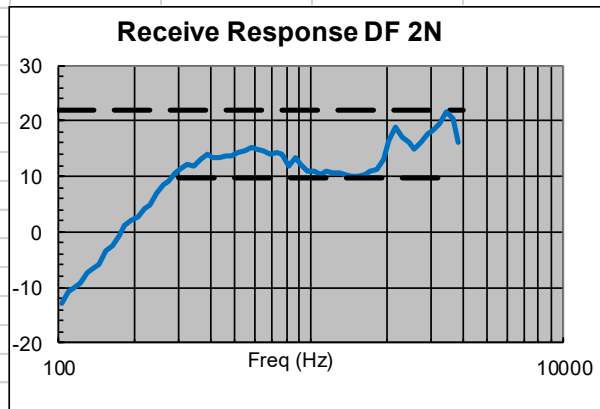
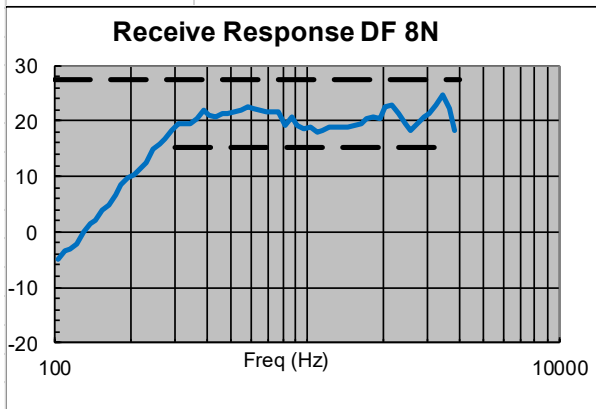
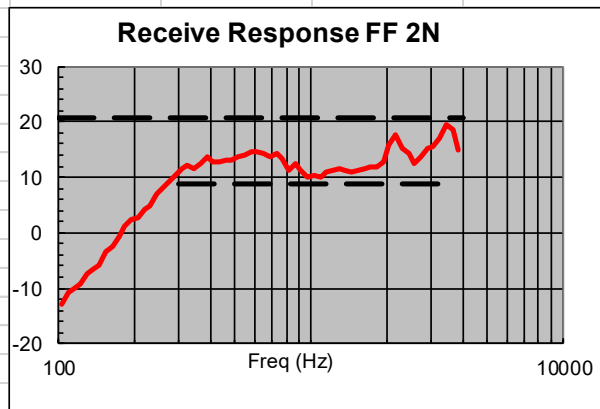
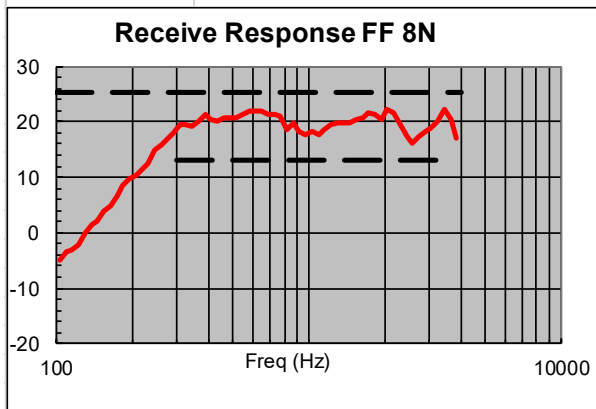
**LTE Band 13 EVS-NB: 9.6 kbps 50,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B13 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.87 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.72 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.32 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.1 dB	Floating Limits	PASS	



**Output**

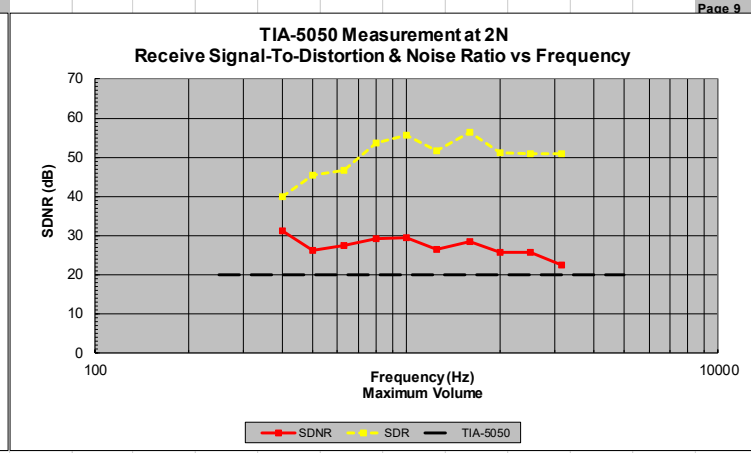
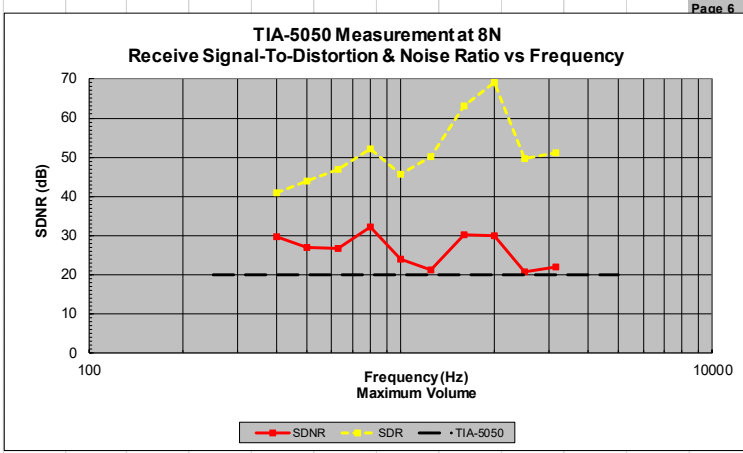
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	91.02 dB	info only		
	Recv conversational gain 8N	21.02 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.73 dB	info only		
	Recv conversational gain 2N	13.73 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.4 dB	Absolute Limits	PASS	

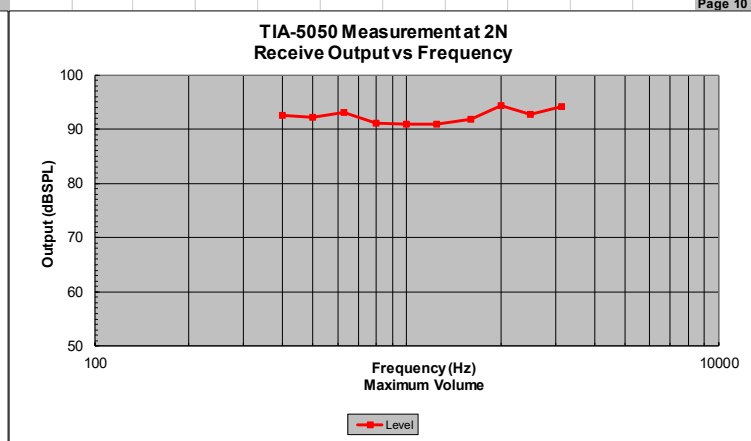
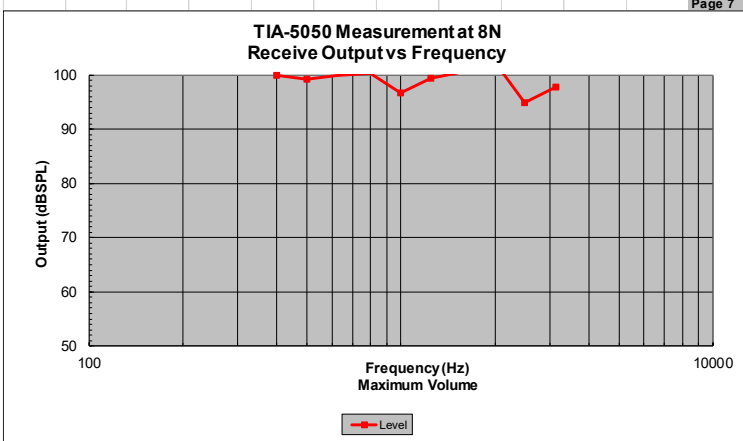
# LTE Band 13 EVS-NB: 9.6 kbps 50,0 RB QPSK

## Distortion Report



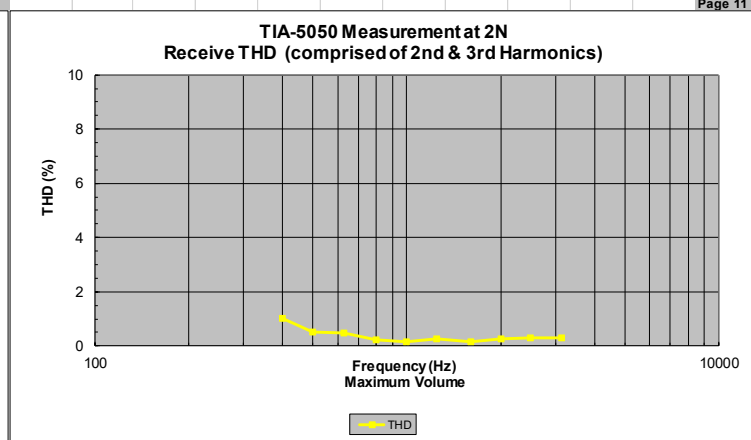
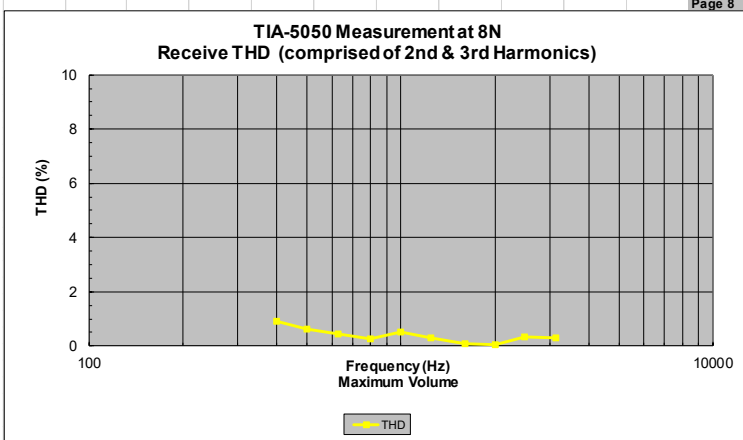
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	6/23/2025 17:57
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.4 dB	Absolute Limits	PASS	6/23/2025 17:57
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
Comments:	9.6 kbps			



Test Date
6/23/2025 17:57
Stimulus level
Sentence conditioning
Short conditioning
Comments:

Test Date
6/23/2025 17:57
Stimulus level
Sentence conditioning
Short conditioning
Comments:



Test Date
6/23/2025 17:57
Stimulus level
Sentence conditioning
Short conditioning
Comments:

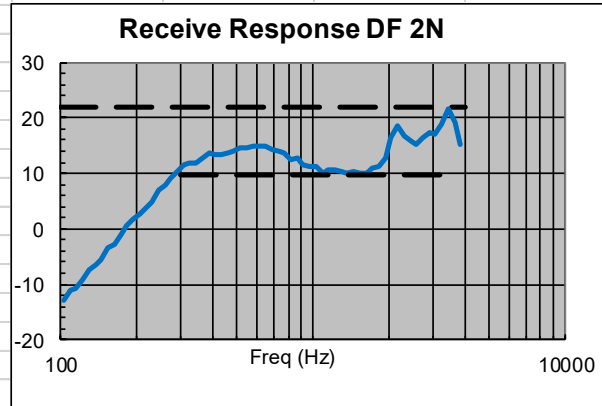
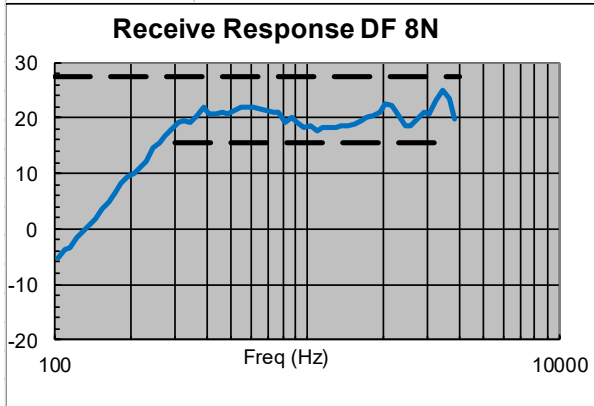
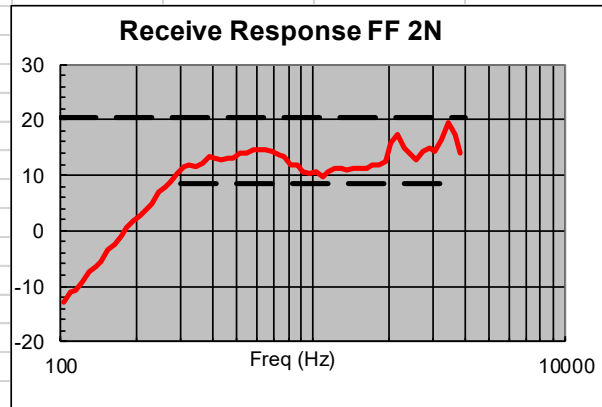
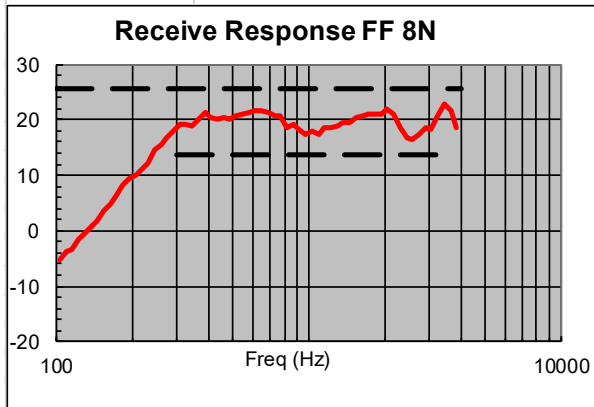
Test Date
6/23/2025 17:57
Stimulus level
Sentence conditioning
Short conditioning
Comments:

**LTE Band 14 EVS-NB: 9.6 kbps 50,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B14 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.86 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.32 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.19 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.15 dB	Floating Limits	PASS	



**Output**

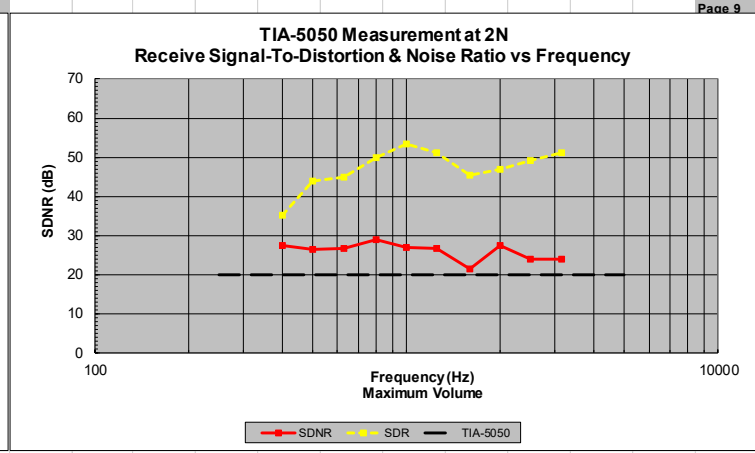
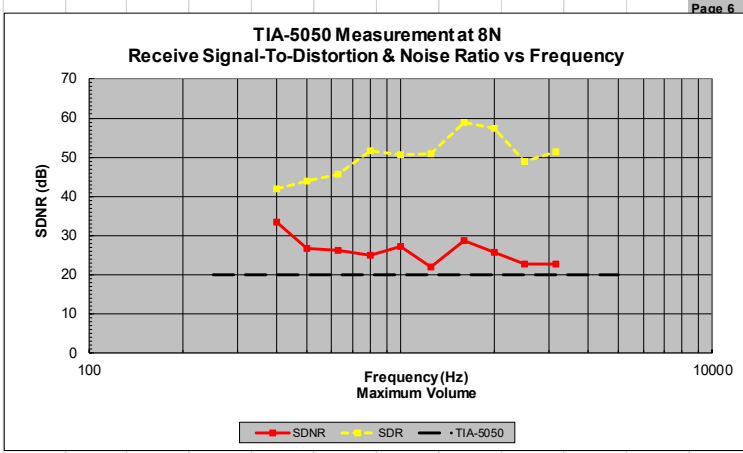
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	90.81 dB	info only		
	Recv conversational gain 8N	20.81 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.68 dB	info only		
	Recv conversational gain 2N	13.68 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.49 dB	Absolute Limits	PASS	

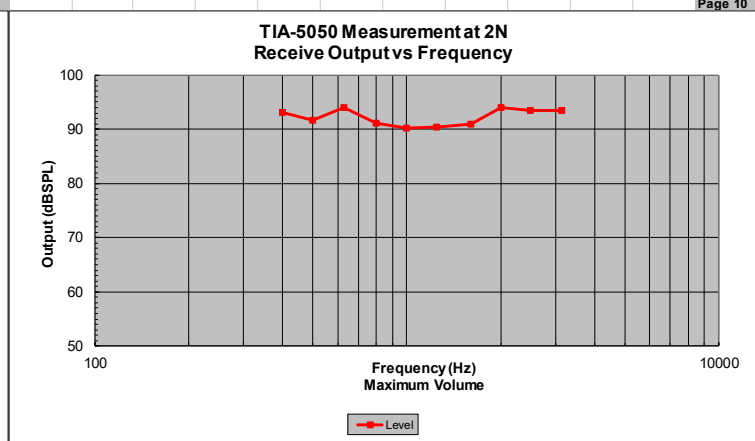
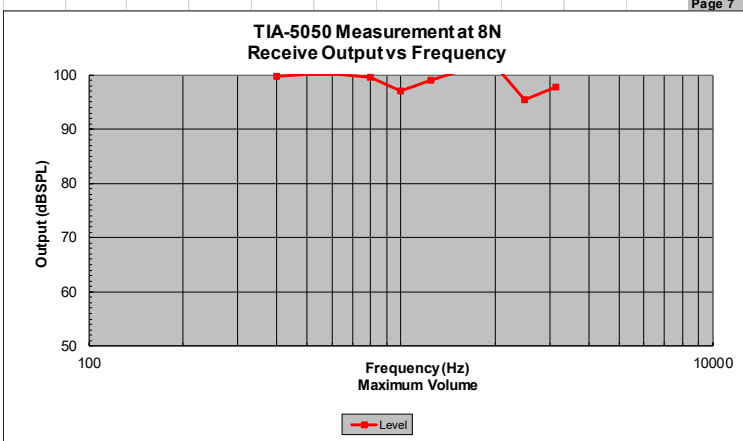
# LTE Band 14 EVS-NB: 9.6 kbps 50,0 RB QPSK

## Distortion Report



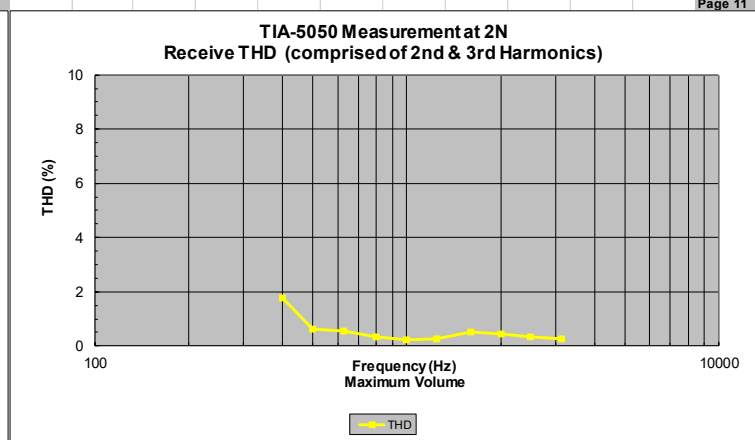
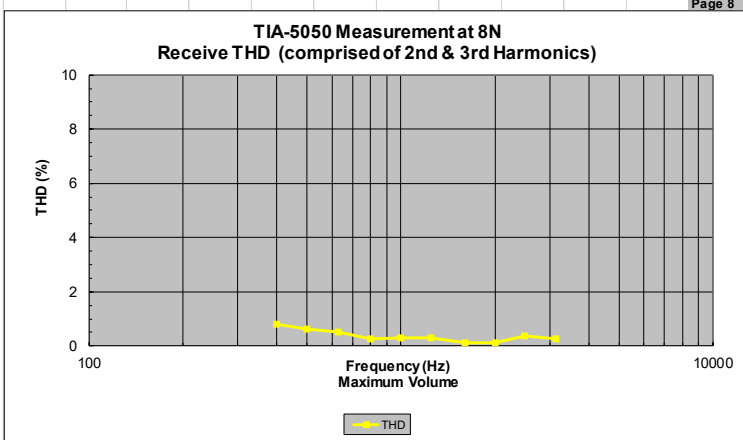
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	6/23/2025 18:05
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.49 dB	Absolute Limits	PASS	6/23/2025 18:05
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 18:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 18:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 18:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 18:05	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**LTE Band 26 EVS-NB: 9.6 kbps 75,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

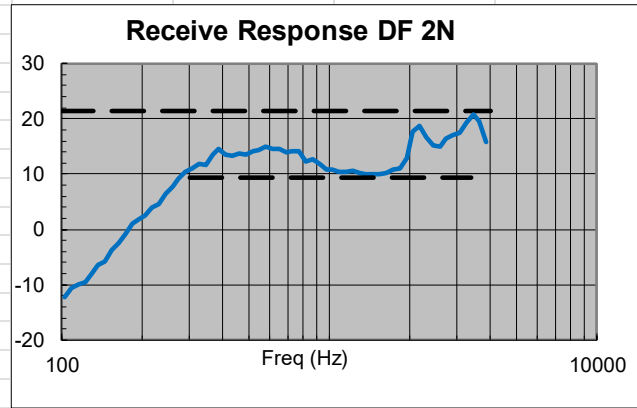
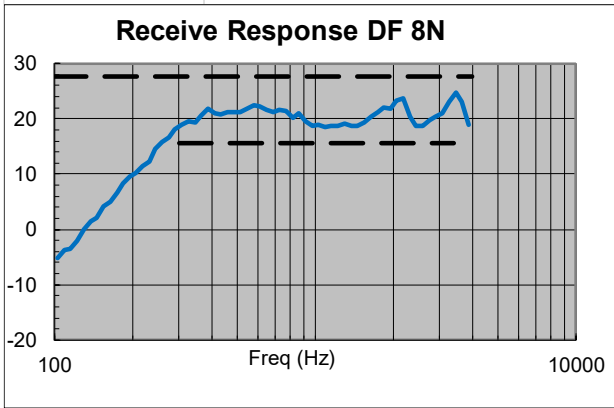
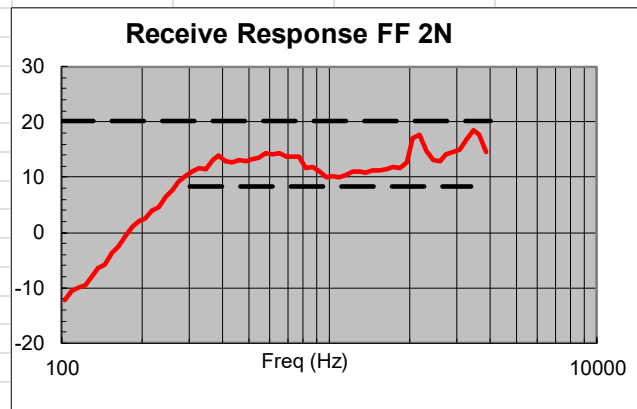
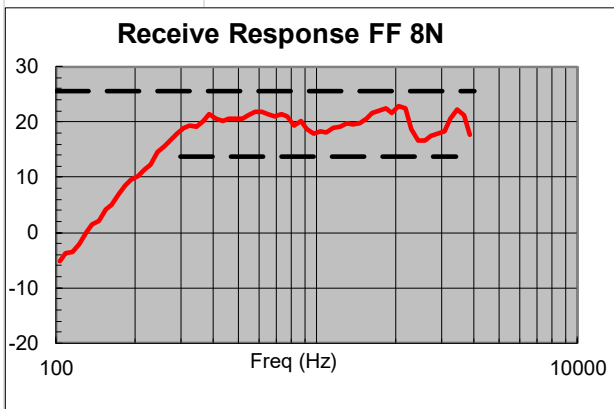
<b>Device Under Test:</b>	LTE B26 EVS-NB
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<b>Bandwidth</b>	Narrowband
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<b>Test Date:</b>	6/23/2025
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**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.88 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.93 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.74 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.54 dB	Floating Limits	PASS	



**Output**

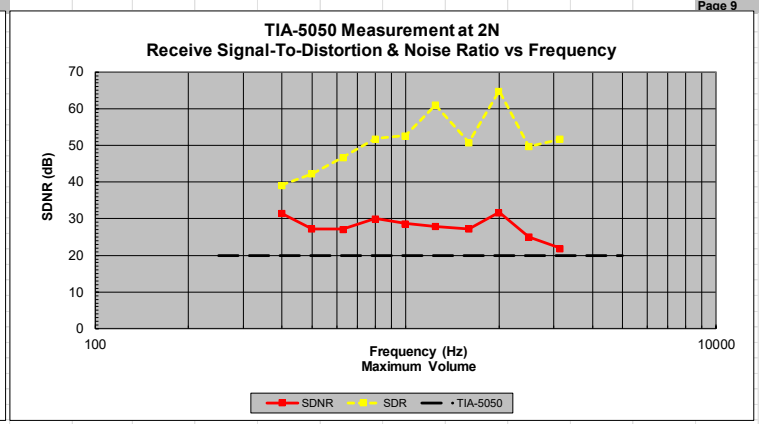
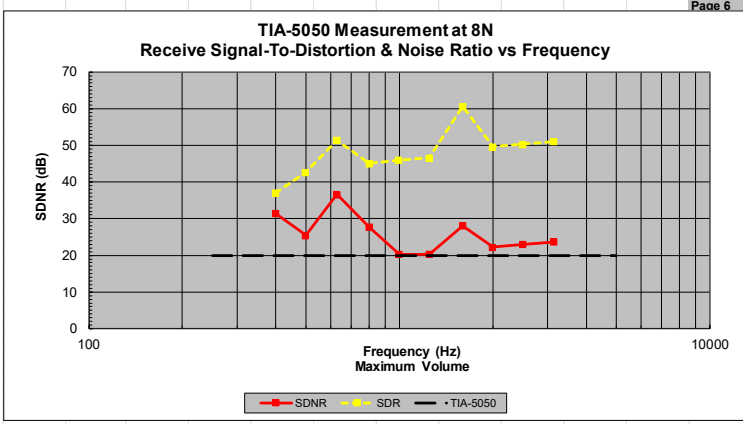
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.03 dB	info only		
	Recv conversational gain 8N	21.03 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.54 dB	info only		
	Recv conversational gain 2N	13.54 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.95 dB	Absolute Limits	PASS	

# LTE Band 26 EVS-NB: 9.6 kbps 75,0 RB QPSK

## Distortion Report

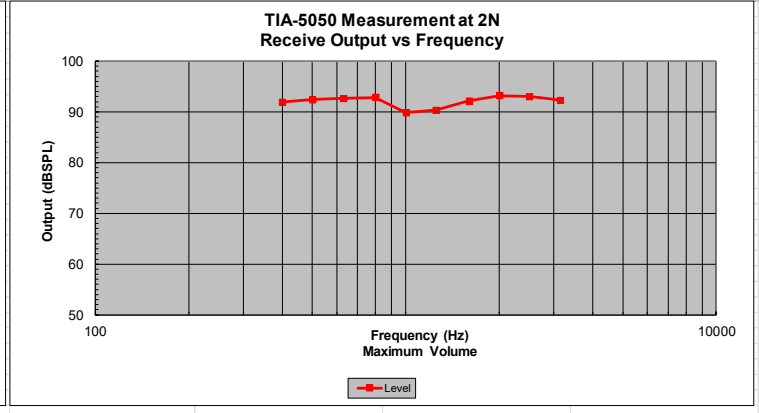
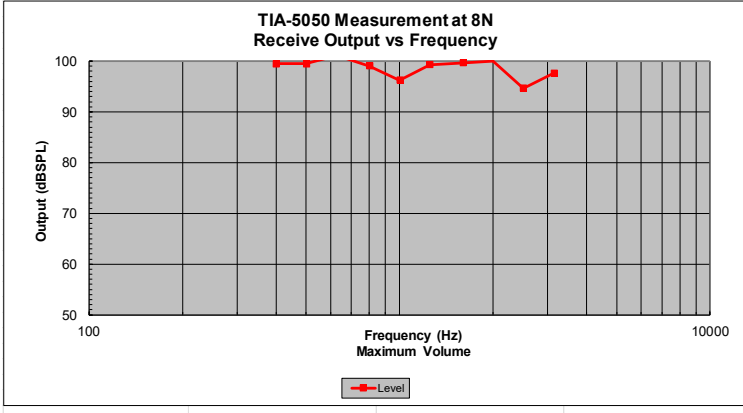


Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	6/23/2025 17:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

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Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.95 dB	Absolute Limits	PASS	6/23/2025 17:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

Page 10

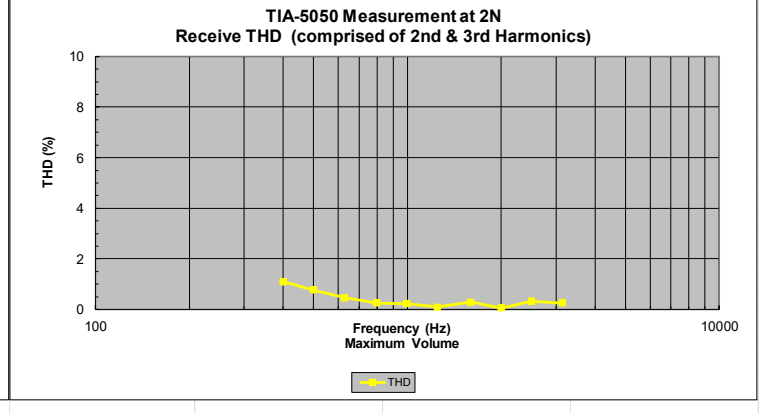
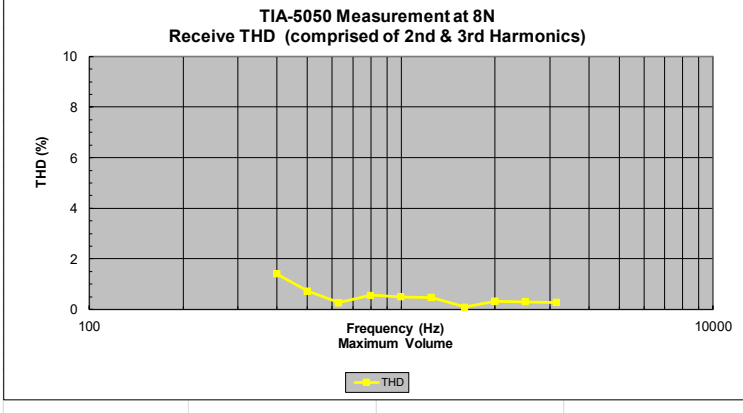


Test Date	
6/23/2025 17:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Page 8

Test Date	
6/23/2025 17:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Page 11



Test Date	
6/23/2025 17:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 17:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



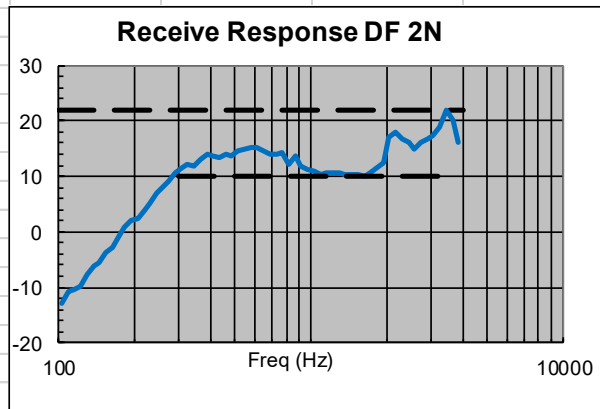
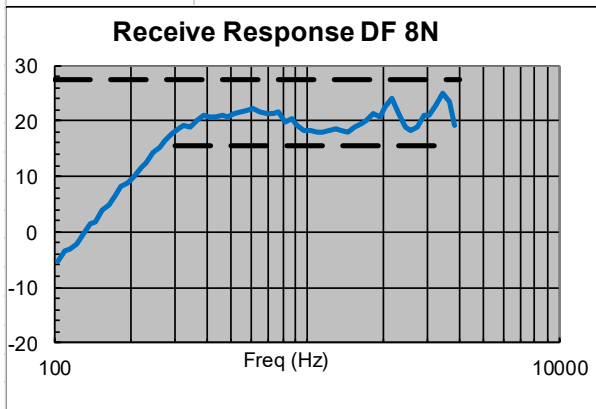
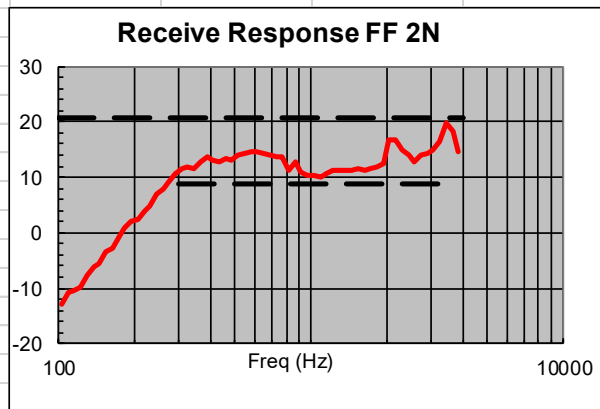
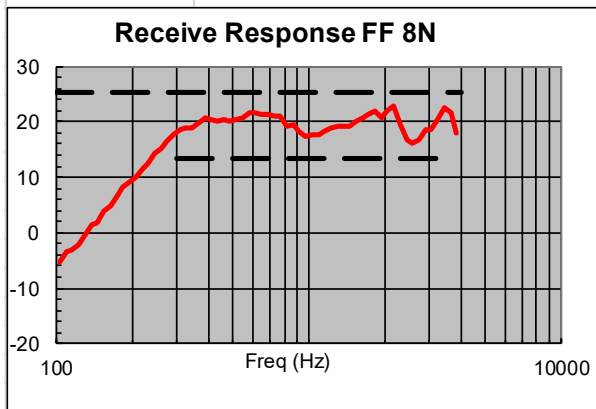
**LTE Band 30 EVS-NB: 9.6 kbps 50,0 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B30 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.65 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.46 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.13 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.03 dB	Floating Limits	PASS	



**Output**

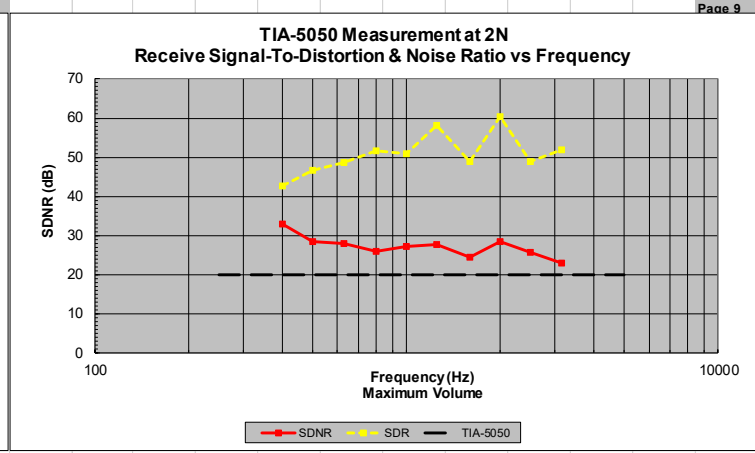
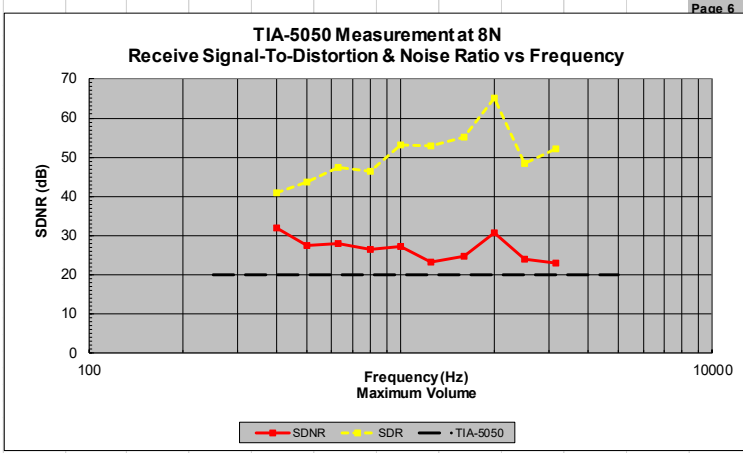
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.73 dB	info only		
	Recv conversational gain 8N	20.73 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.75 dB	info only		
	Recv conversational gain 2N	13.75 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.9 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.97 dB	Absolute Limits	PASS	

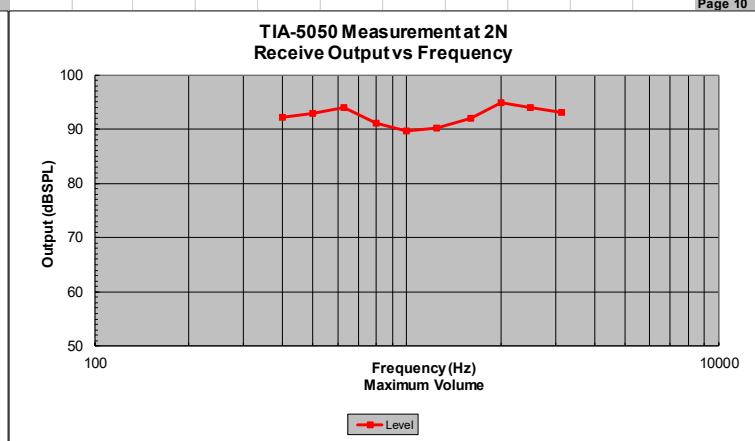
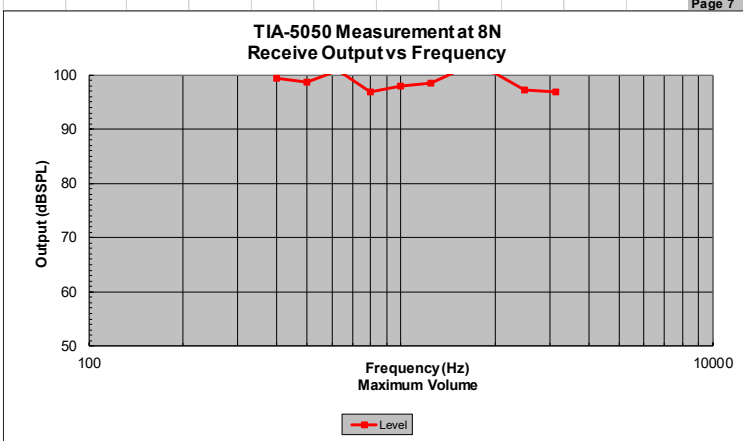
# LTE Band 30 EVS-NB: 9.6 kbps 50,0 RB QPSK

## Distortion Report



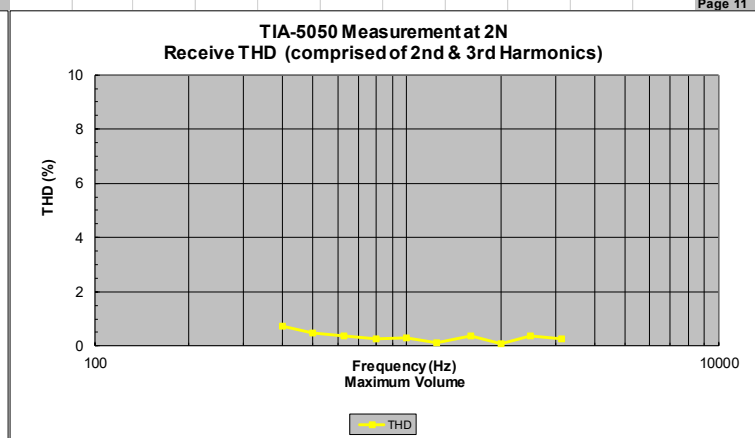
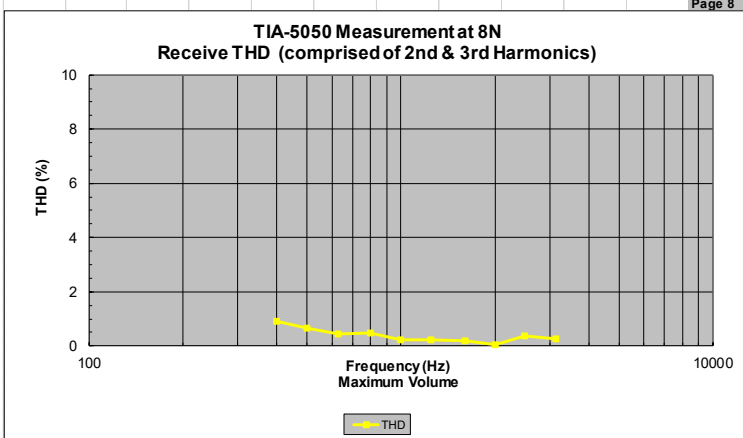
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.9 dB	Absolute Limits	PASS	6/23/2025 18:12
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.97 dB	Absolute Limits	PASS	6/23/2025 18:12
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
6/23/2025 18:12
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
6/23/2025 18:12
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
6/23/2025 18:12
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

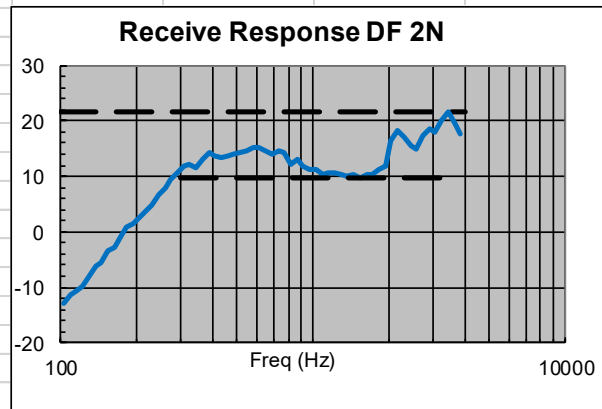
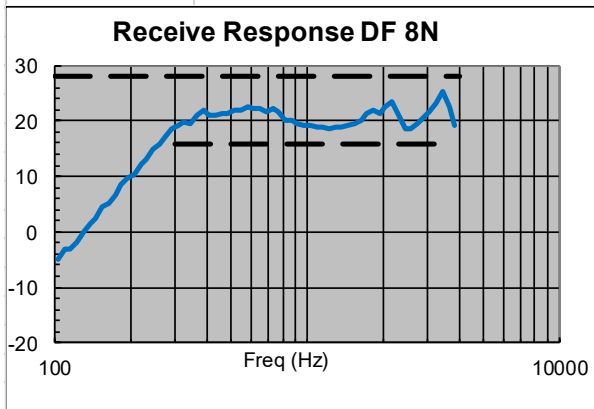
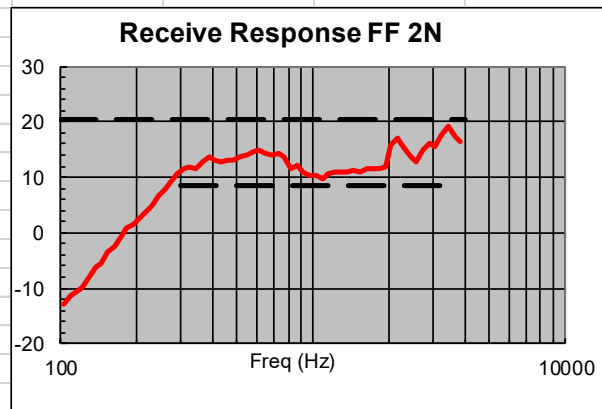
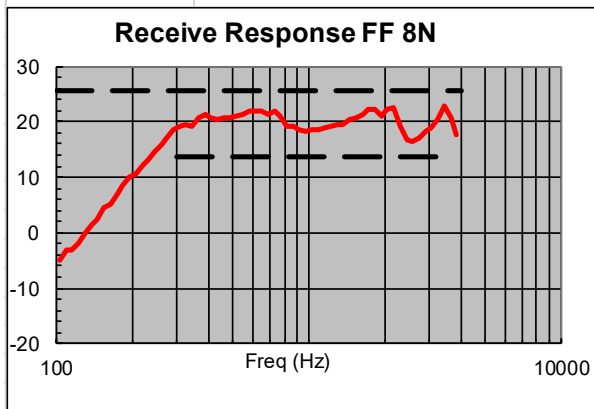
Test Date
6/23/2025 18:12
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

**LTE Band 41 PC3 EVS-NB: 9.6 kbps 100,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B41 PC3 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.67 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.63 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.3 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.12 dB	Floating Limits	PASS	



**Output**

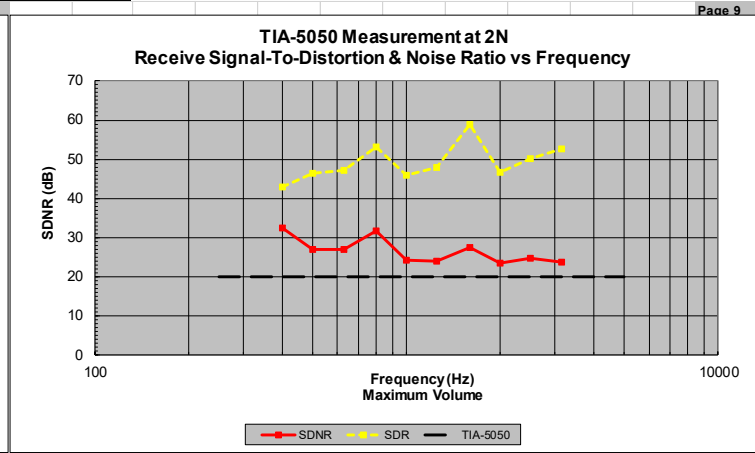
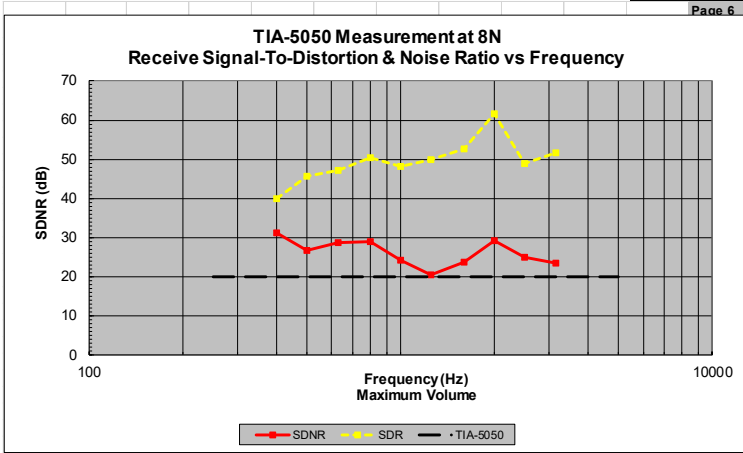
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	91.22 dB	info only		
	Recv conversational gain 8N	21.22 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.74 dB	info only		
	Recv conversational gain 2N	13.74 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.39 dB	Absolute Limits	PASS	

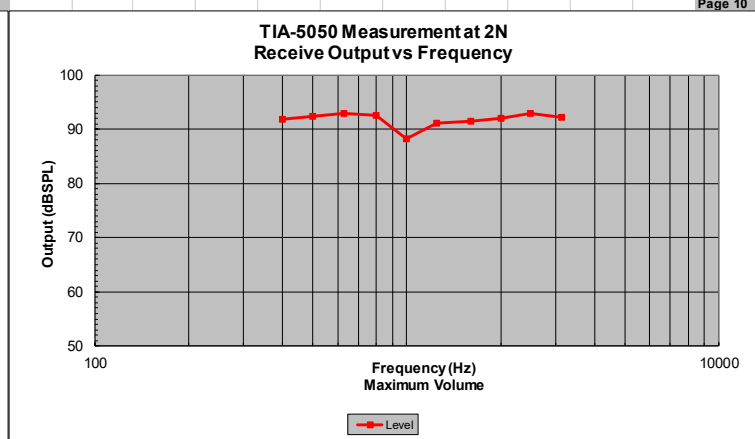
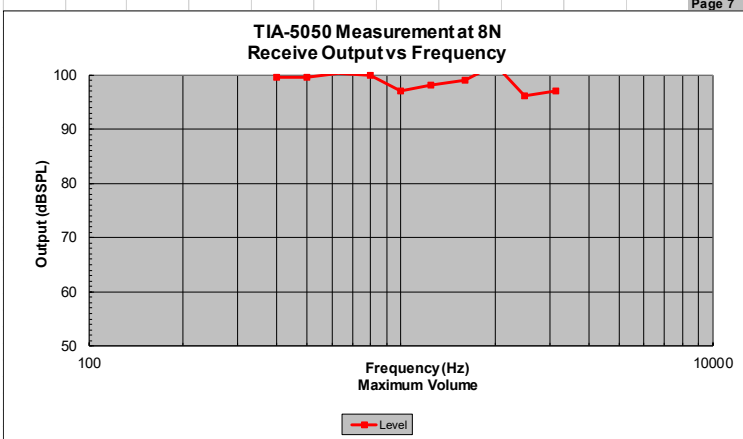
# LTE Band 41 PC3 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



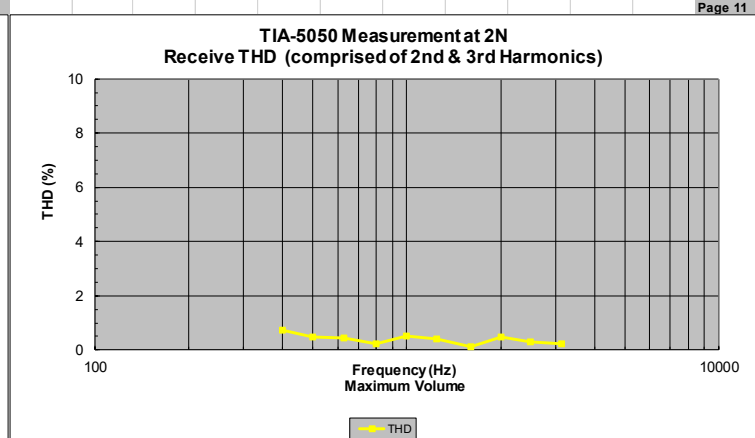
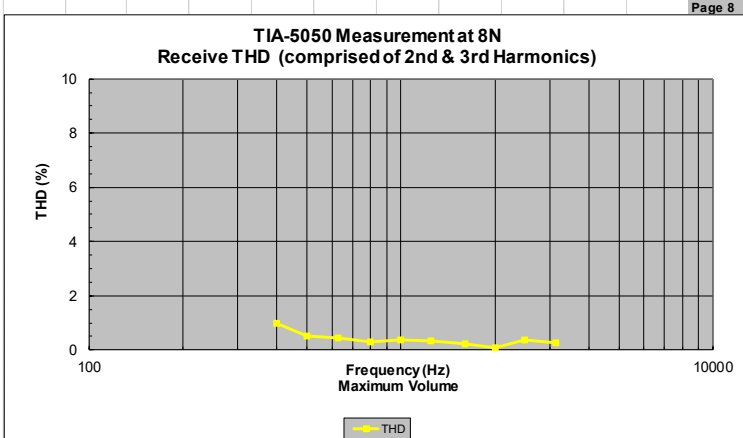
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	6/23/2025 18:22
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.39 dB	Absolute Limits	PASS	6/23/2025 18:22
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			



Test Date
6/23/2025 18:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:

Test Date
6/23/2025 18:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:



Test Date
6/23/2025 18:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:

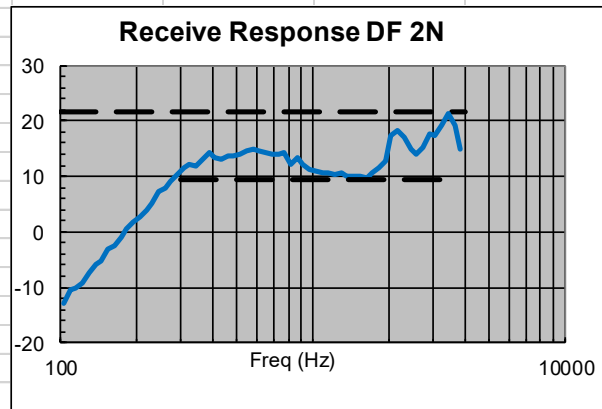
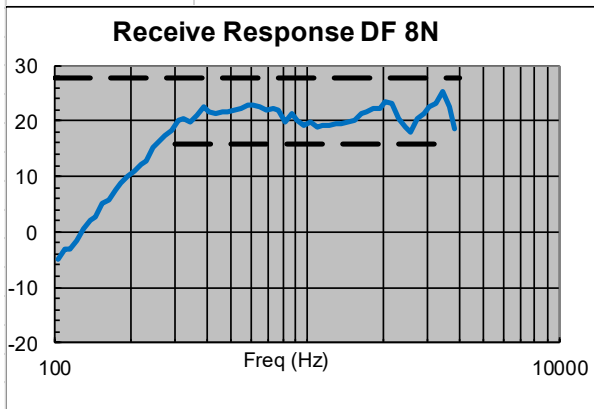
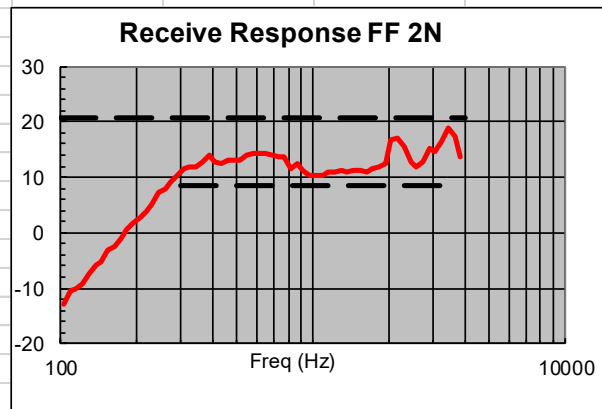
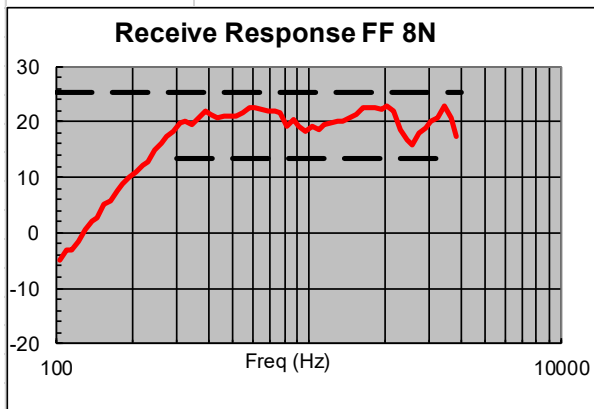
Test Date
6/23/2025 18:22
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:

**LTE Band 41 PC2 EVS-NB: 9.6 kbps 100,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B41 PC2 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.41 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.37 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.7 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.3 dB	Floating Limits	PASS	



**Output**

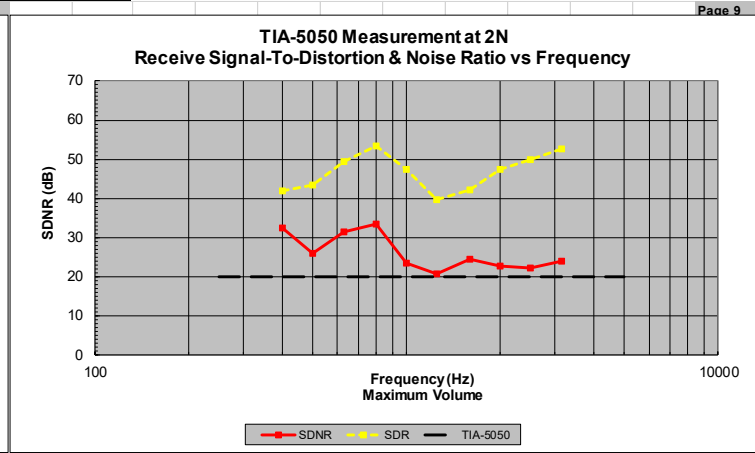
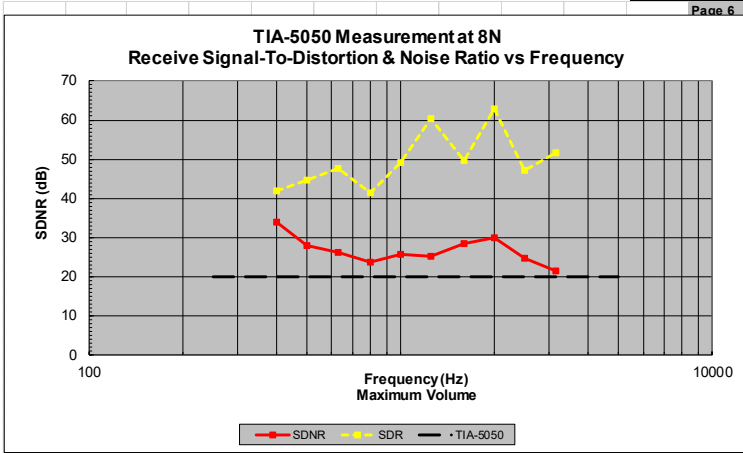
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	91.58 dB	info only		
	Recv conversational gain 8N	21.58 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.57 dB	info only		
	Recv conversational gain 2N	13.57 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.76 dB	Absolute Limits	PASS	

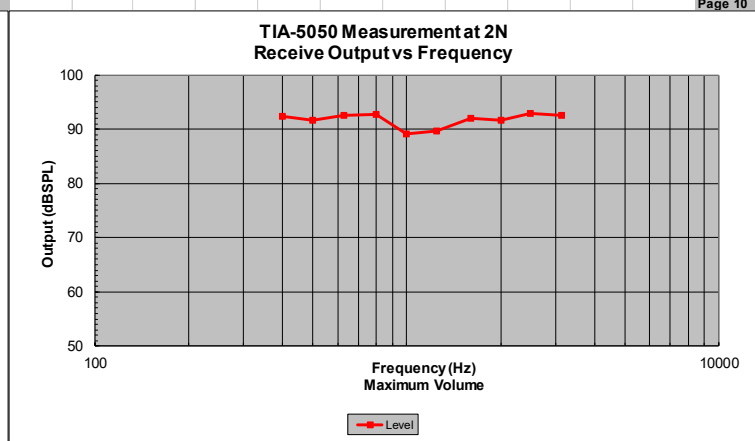
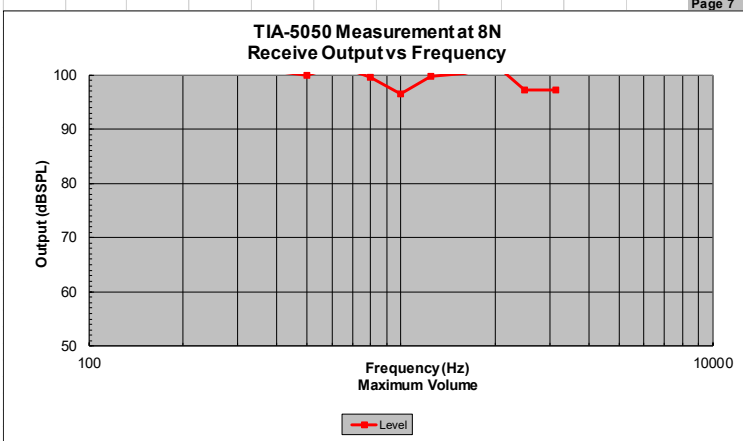
# LTE Band 41 PC2 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



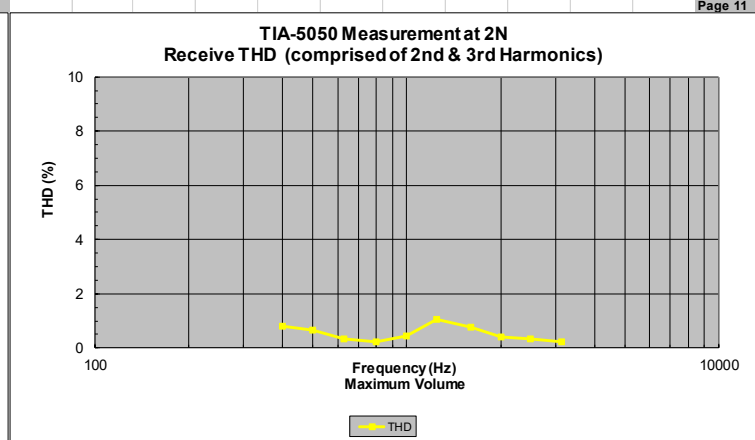
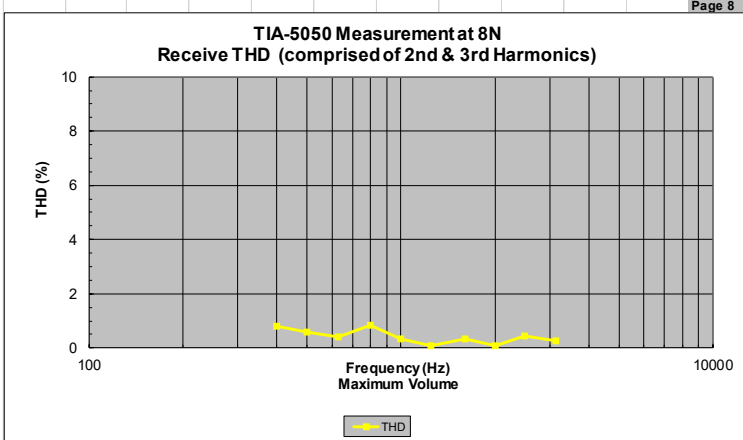
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	6/23/2025 19:29
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.76 dB	Absolute Limits	PASS	6/23/2025 19:29
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
6/23/2025 19:29
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
6/23/2025 19:29
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
6/23/2025 19:29
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

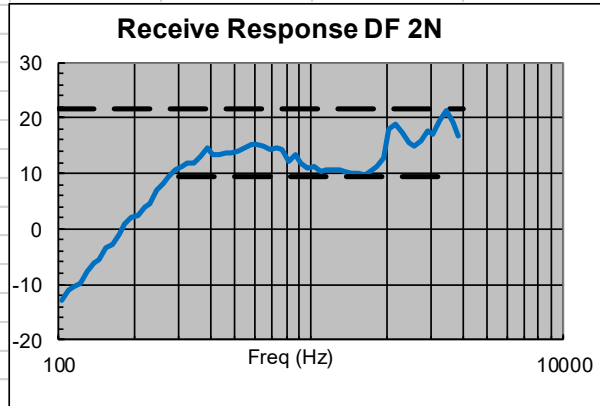
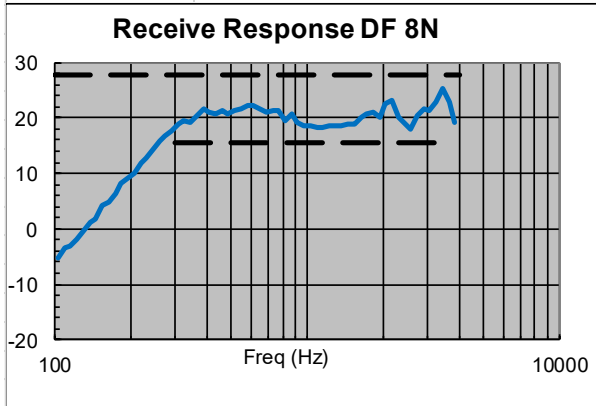
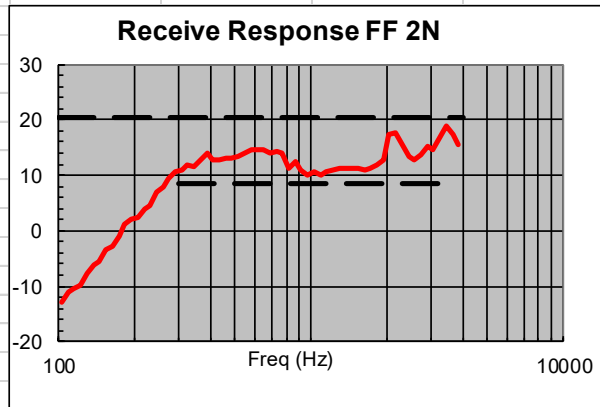
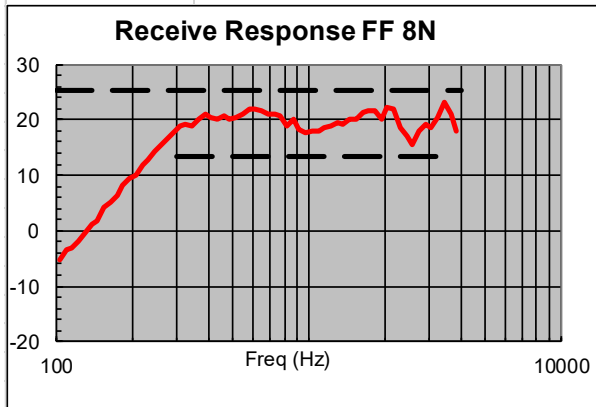
Test Date
6/23/2025 19:29
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

**LTE Band 48 PC3 EVS-NB: 9.6 kbps 100,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B48 PC3 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.27 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.23 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.59 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.31 dB	Floating Limits	PASS	



**Output**

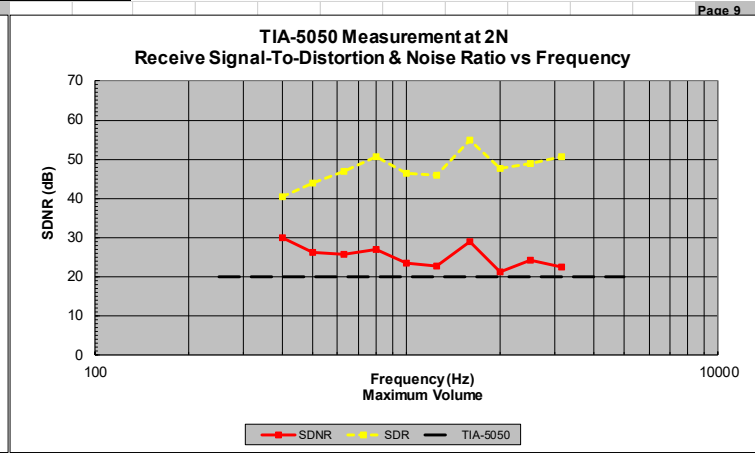
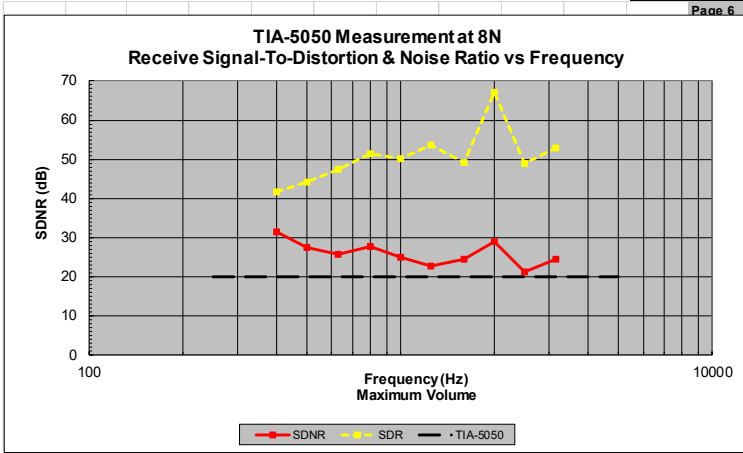
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	90.89 dB	info only		
	Recv conversational gain 8N	20.89 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.69 dB	info only		
	Recv conversational gain 2N	13.69 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.35 dB	Absolute Limits	PASS	

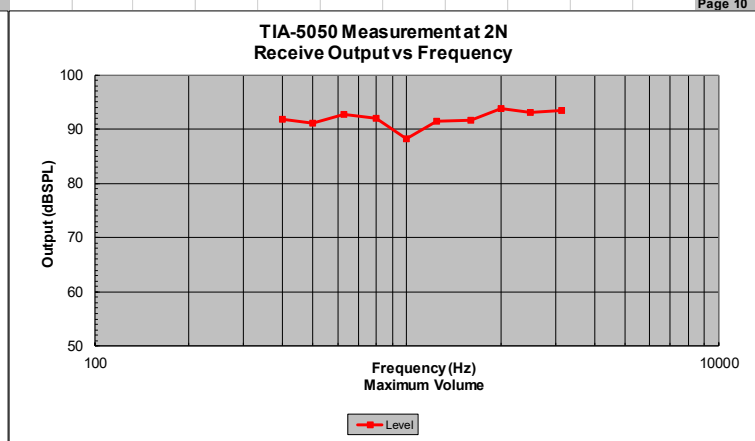
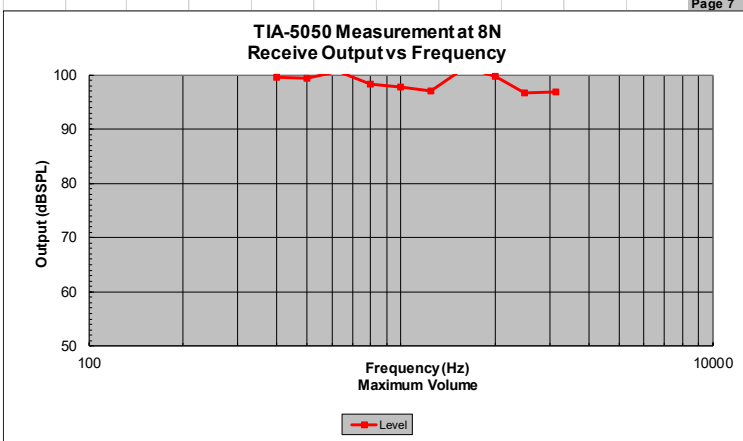
# LTE Band 48 PC3 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



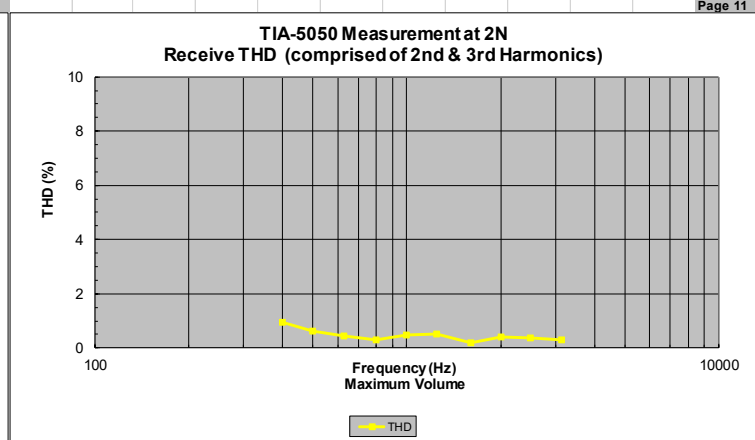
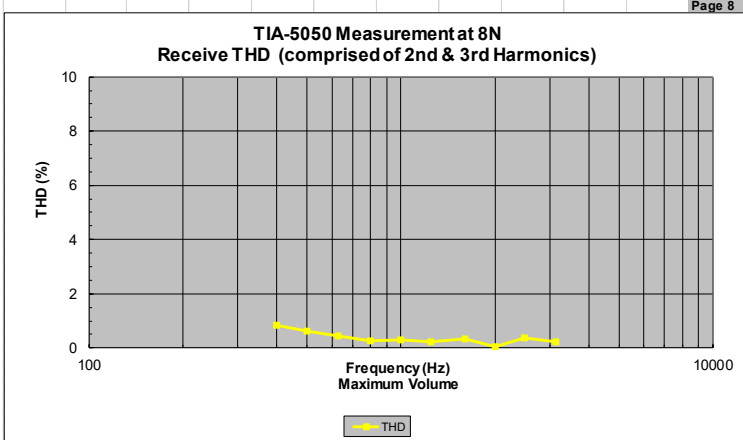
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.3 dB	Absolute Limits	PASS	6/23/2025 18:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.35 dB	Absolute Limits	PASS	6/23/2025 18:30
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 18:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 18:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 18:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 18:30	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

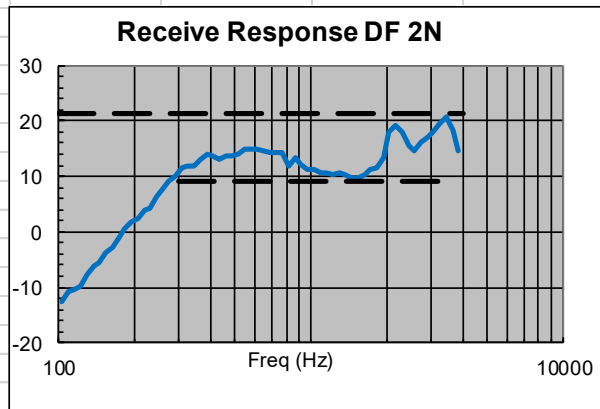
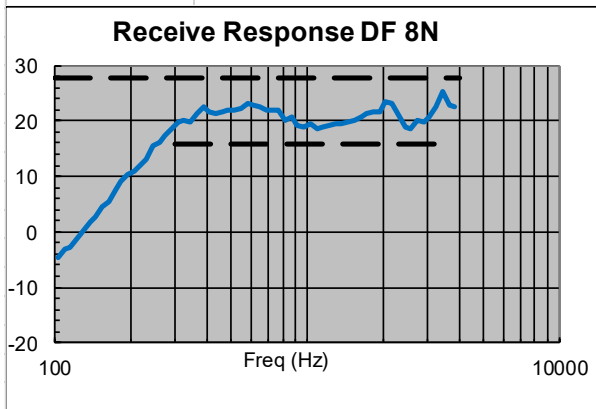
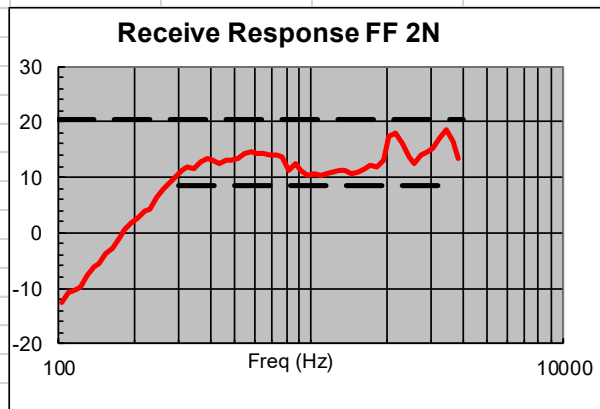
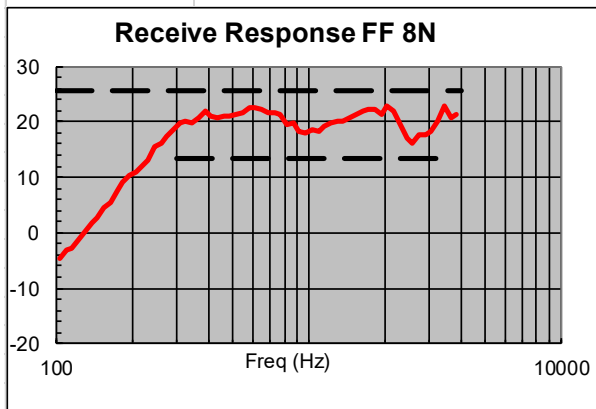


**LTE Band 53 PC3 EVS-NB: 9.6 kbps 50,0 RB QPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B53 PC3 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.67 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.64 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.88 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.39 dB	Floating Limits	PASS	



**Output**

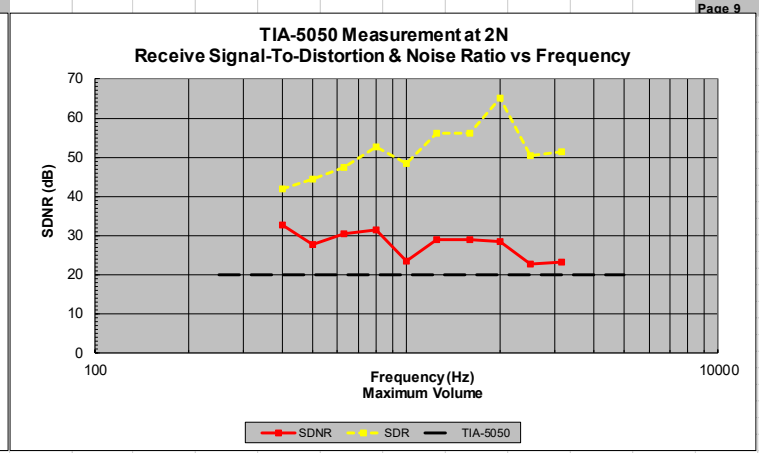
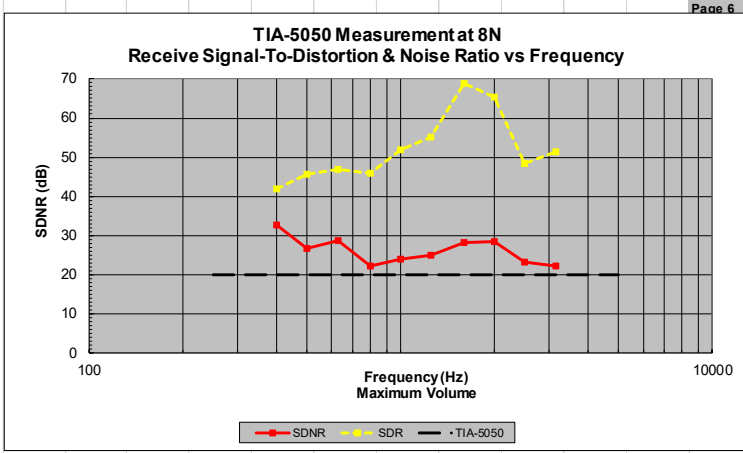
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	91.57 dB	info only		
	Recv conversational gain 8N	21.57 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.65 dB	info only		
	Recv conversational gain 2N	13.65 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.69 dB	Absolute Limits	PASS	

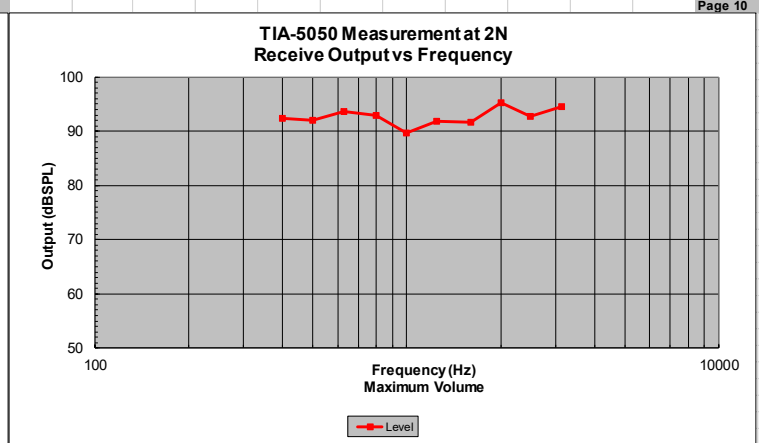
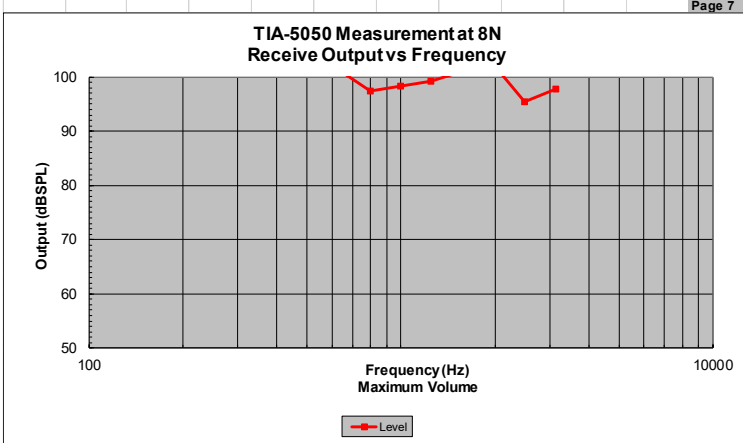
# LTE Band 53 PC3 EVS-NB: 9.6 kbps 50,0 RB QPSK

## Distortion Report



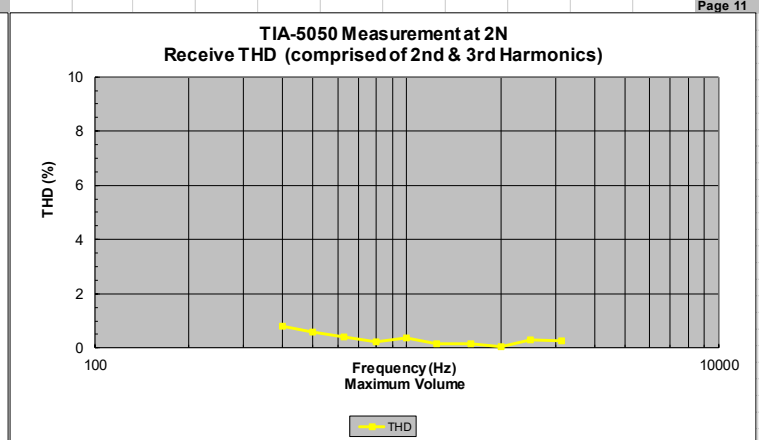
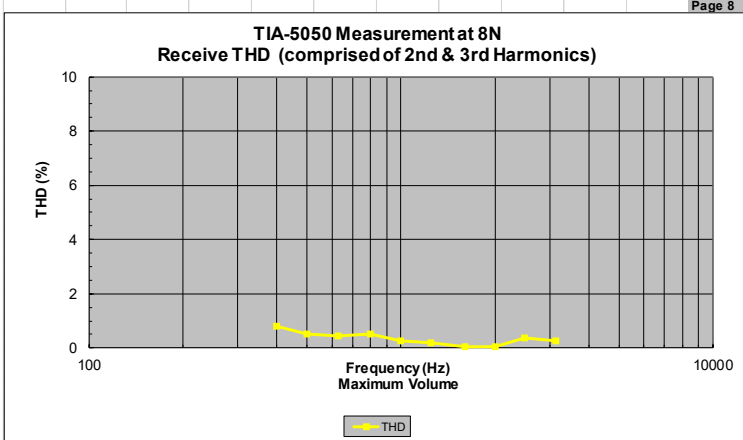
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	6/23/2025 18:51
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.69 dB	Absolute Limits	PASS	6/23/2025 18:51
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date		
6/23/2025 18:51		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
6/23/2025 18:51		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	



Test Date		
6/23/2025 18:51		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
6/23/2025 18:51		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

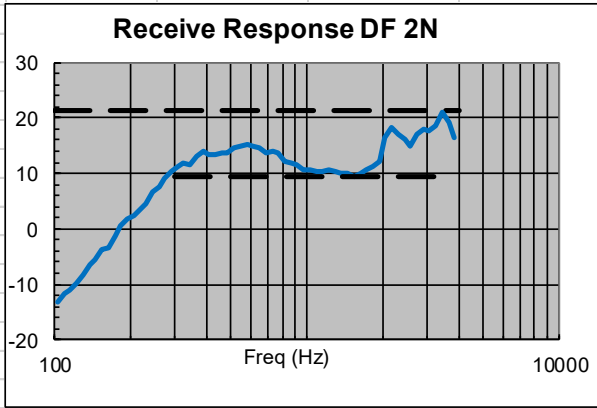
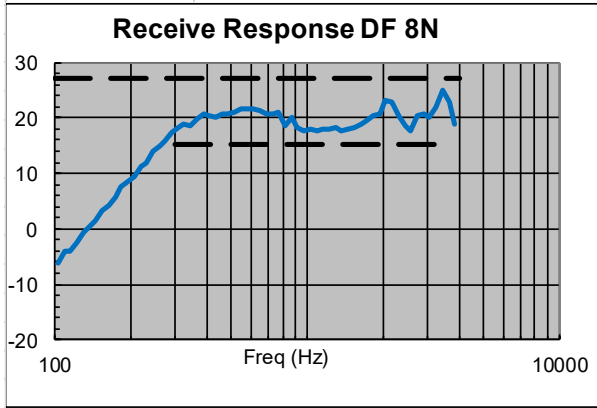
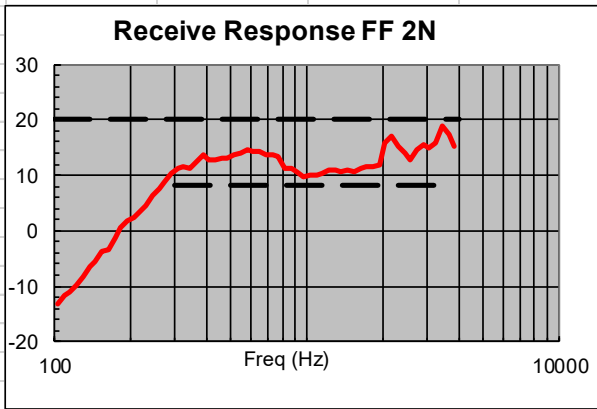
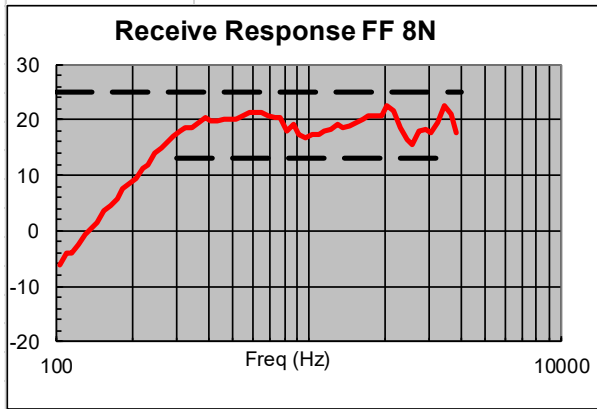
**LTE Band 66 EVS-NB: 9.6 kbps 100,0 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B66 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.41 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.28 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.47 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.23 dB	Floating Limits	PASS	



**Output**

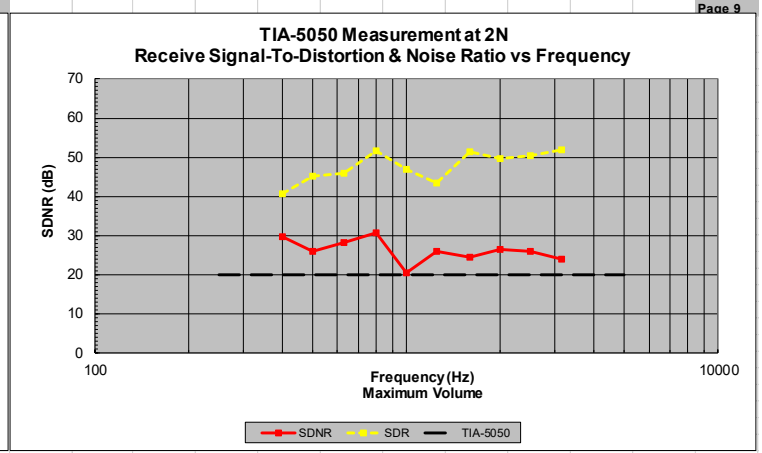
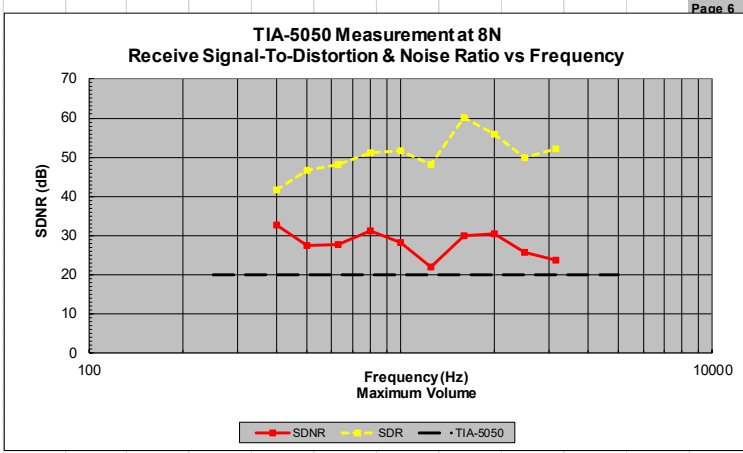
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	90.37 dB	info only		
	Recv conversational gain 8N	20.37 dB	18.00	PASS	
	Recv output level dB SPL 2N	83.58 dB	info only		
	Recv conversational gain 2N	13.58 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.56 dB	Absolute Limits	PASS	

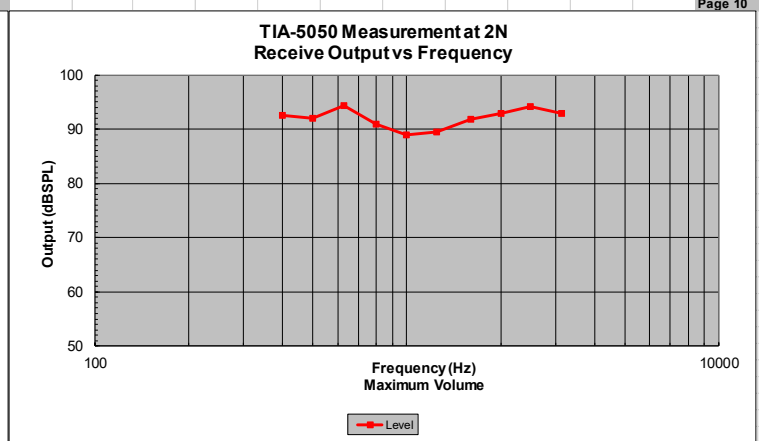
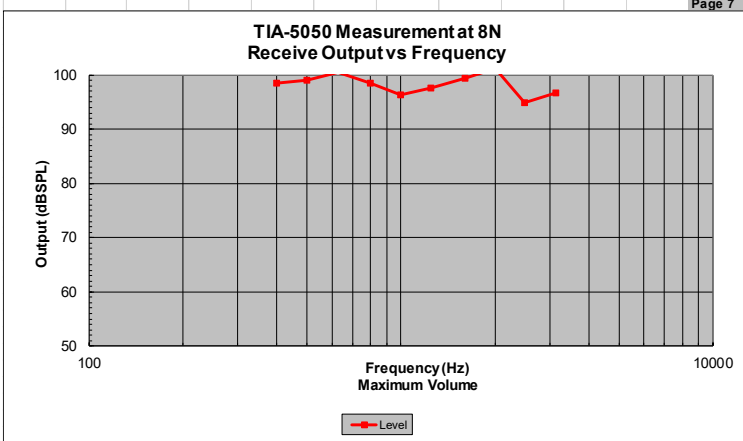
# LTE Band 66 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



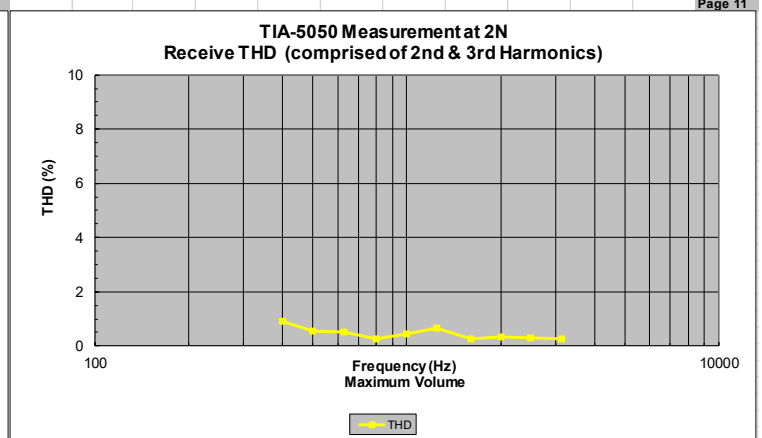
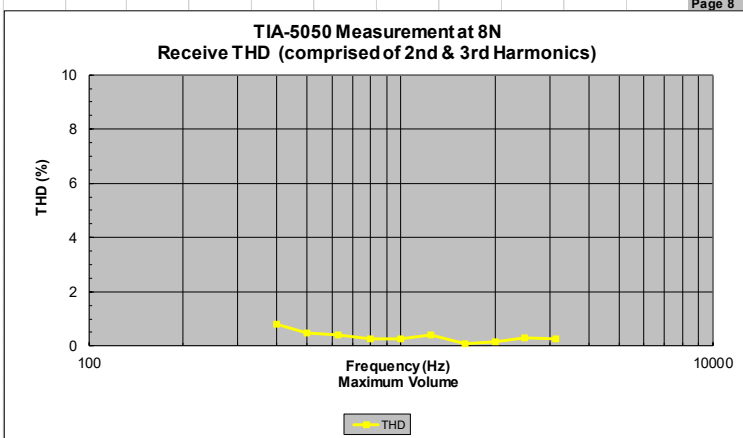
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	6/23/2025 17:04
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.56 dB	Absolute Limits	PASS	6/23/2025 17:04
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
6/23/2025 17:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 17:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
6/23/2025 17:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
6/23/2025 17:04	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

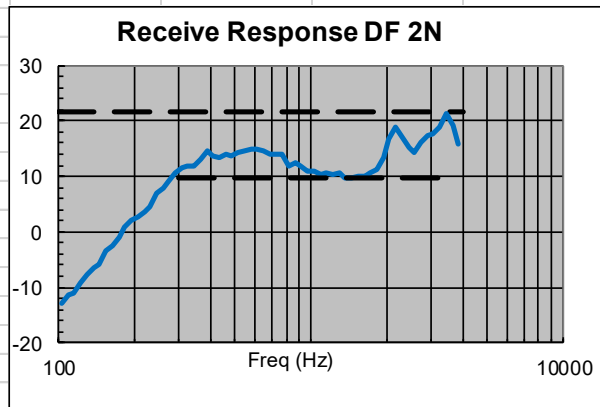
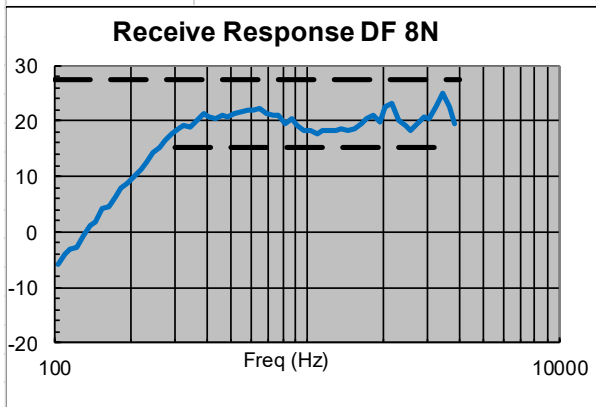
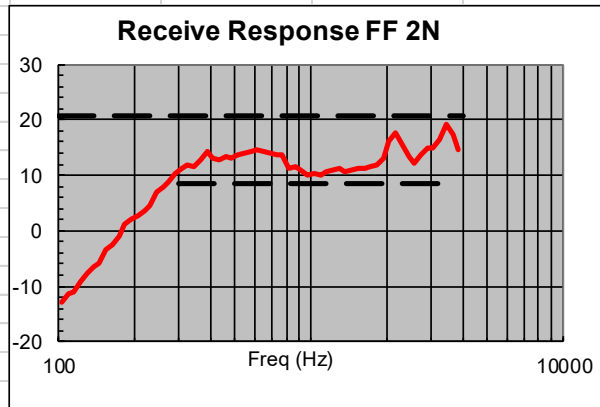
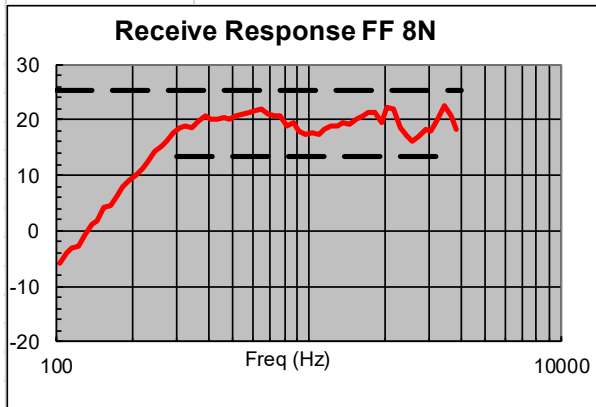
**LTE Band 71 EVS-NB: 9.6 kbps 100,0 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	LTE B71 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	6/23/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	2.74 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.42 dB	Floating Limits	PASS	
	Recv resp FF 2N	1.46 dB	Floating Limits	PASS	
	Recv resp DF 2N	0.16 dB	Floating Limits	PASS	



**Output**

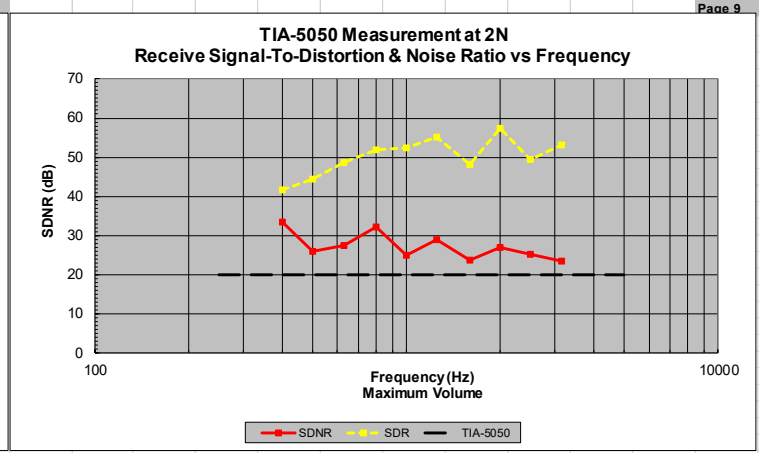
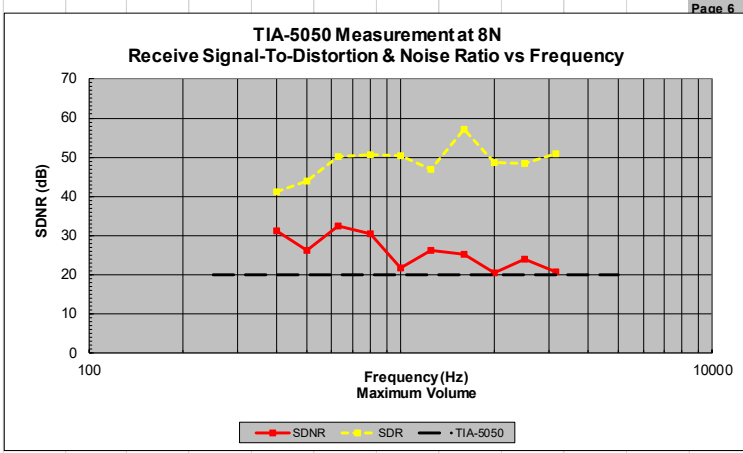
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	90.72 dB	info only		
	Recv conversational gain 8N	20.72 dB	18.00	PASS	
	Recv output level dBSPL 2N	83.66 dB	info only		
	Recv conversational gain 2N	13.66 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.44 dB	Absolute Limits	PASS	

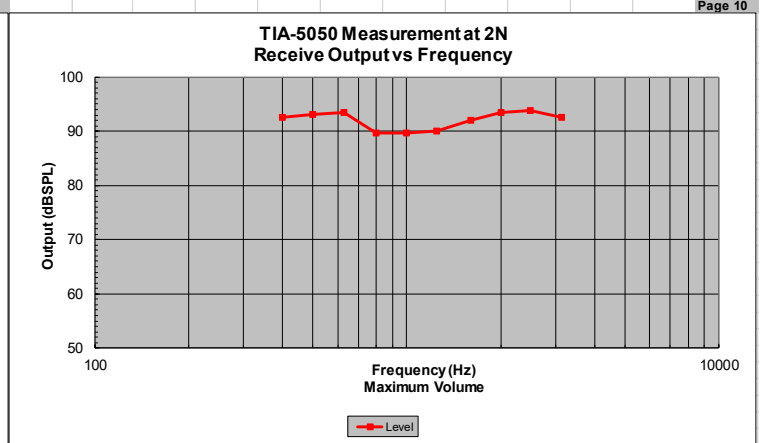
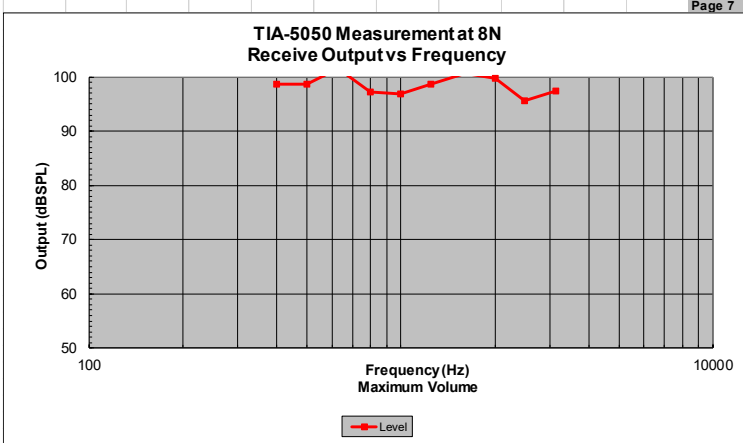
# LTE Band 71 EVS-NB: 9.6 kbps 100,0 RB QPSK

## Distortion Report



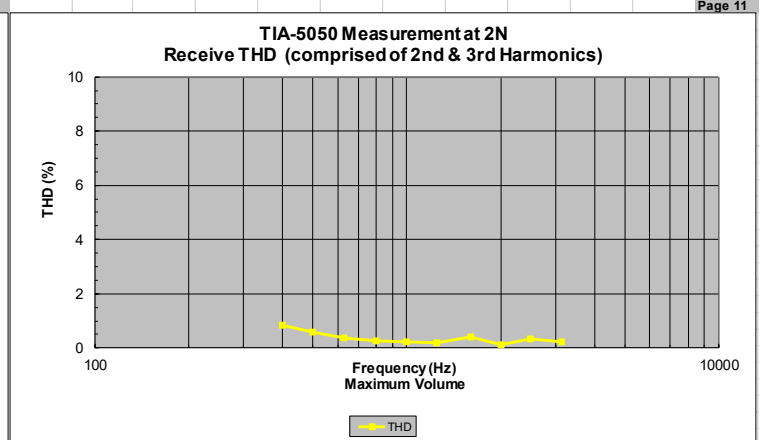
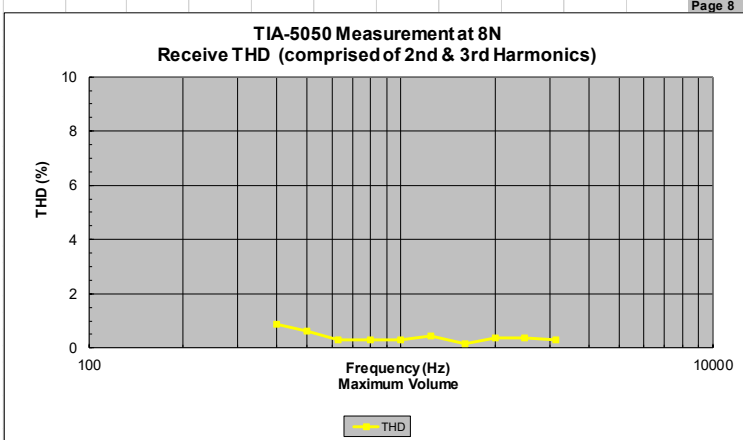
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.5 dB	Absolute Limits	PASS	6/23/2025 17:13
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.44 dB	Absolute Limits	PASS	6/23/2025 17:13
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
6/23/2025 17:13
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
6/23/2025 17:13
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
6/23/2025 17:13
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
6/23/2025 17:13
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

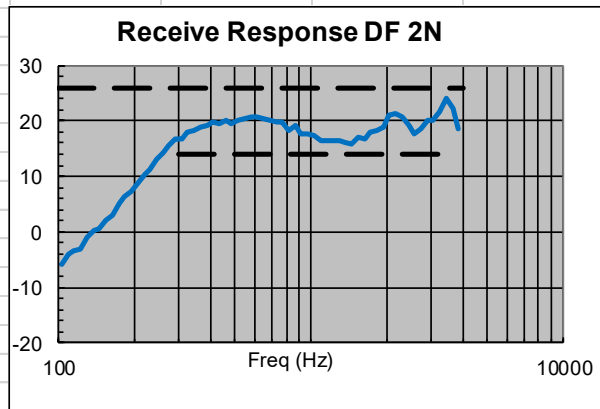
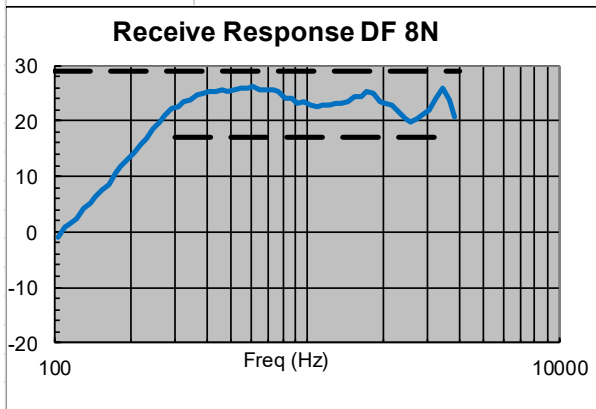
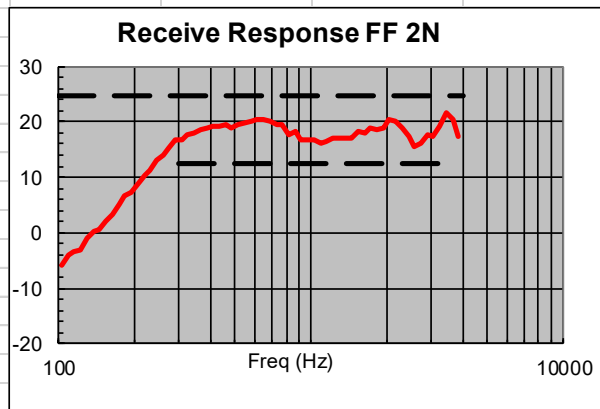
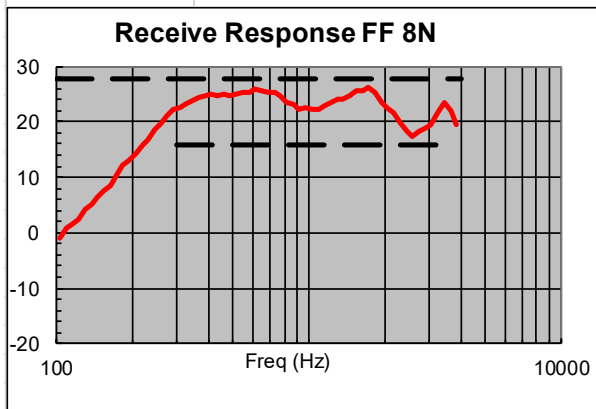
**NR n25 EVS-NB: 9.6 kbps 1,1 RB  $\pi/2$  BPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.64 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.76 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.96 dB	Floating Limits	PASS	
	Recv resp DF 2N	2 dB	Floating Limits	PASS	



**Output**

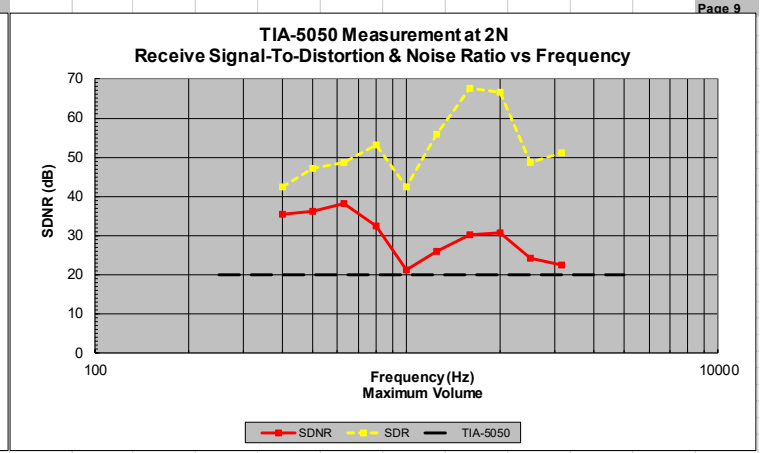
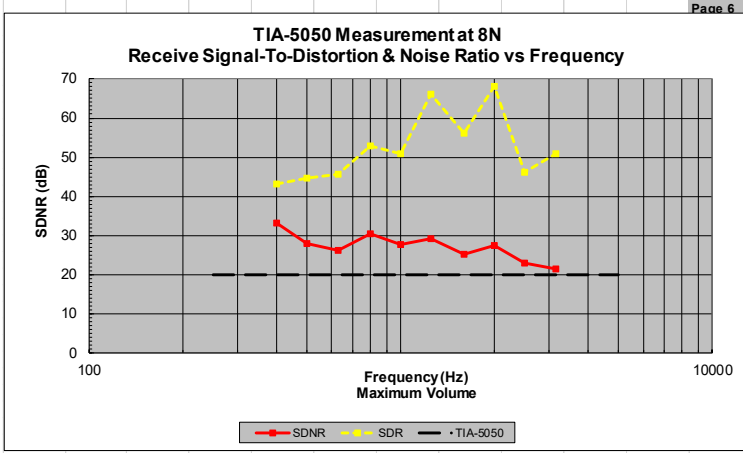
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.02 dB	info only		
	Recv conversational gain 8N	25.02 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.46 dB	info only		
	Recv conversational gain 2N	19.46 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.28 dB	Absolute Limits	PASS	

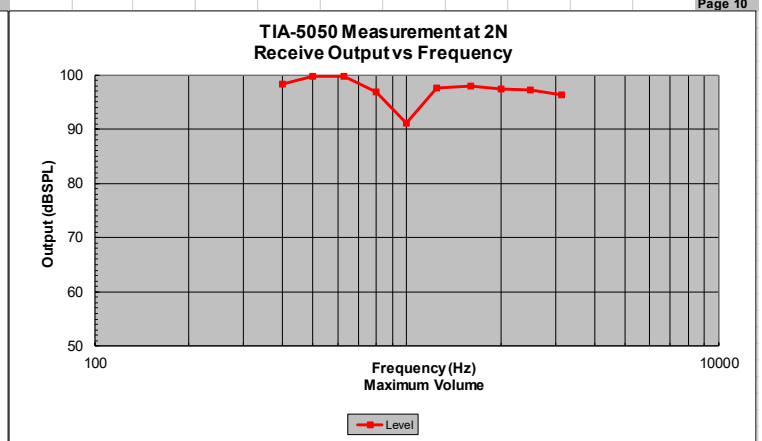
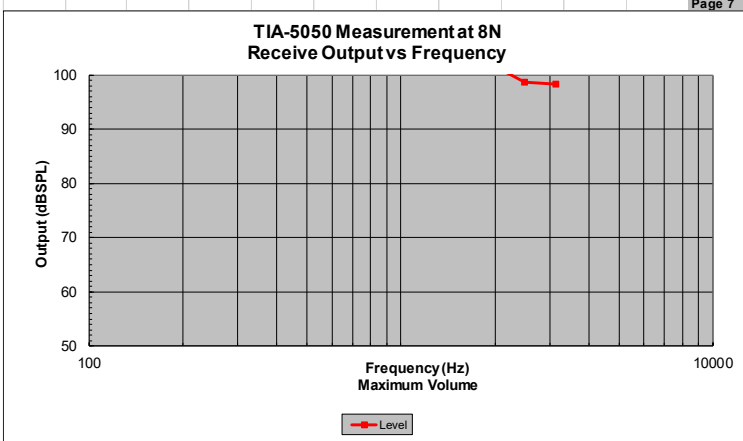
# NR n25 EVS-NB: 9.6 kbps 1,1 RB $\pi/2$ BPSK

## Distortion Report



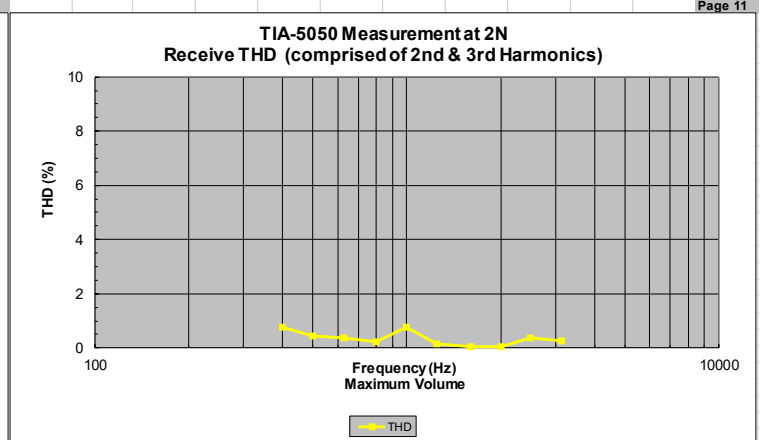
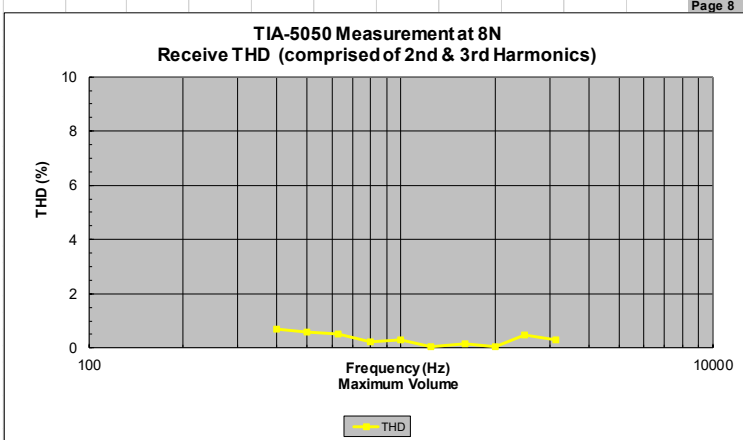
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	7/9/2025 2:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.28 dB	Absolute Limits	PASS	7/9/2025 2:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date		
7/9/2025 2:13		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 2:13		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	



Test Date		
7/9/2025 2:13		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 2:13		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	



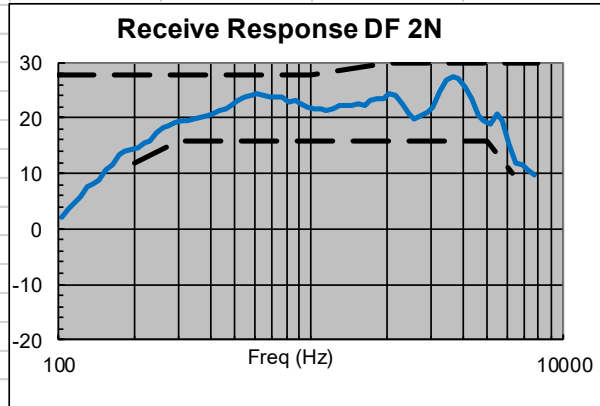
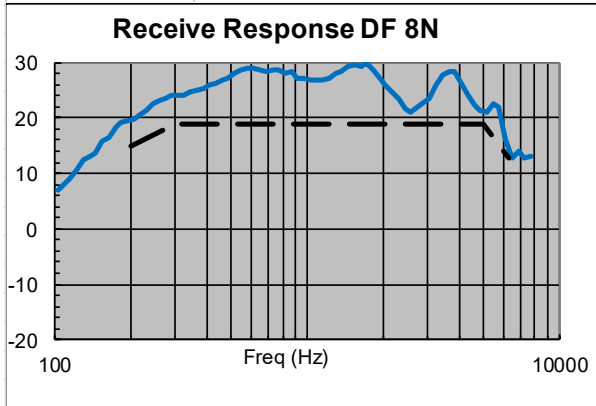
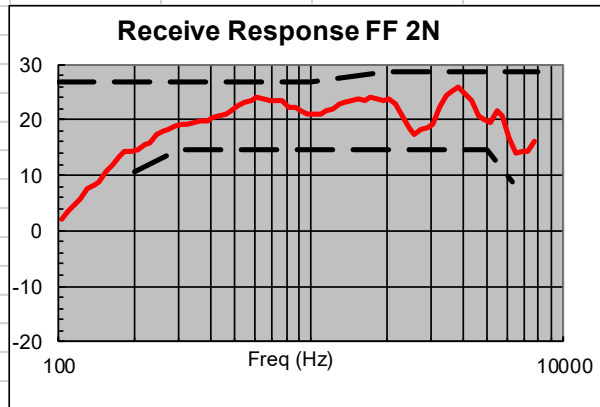
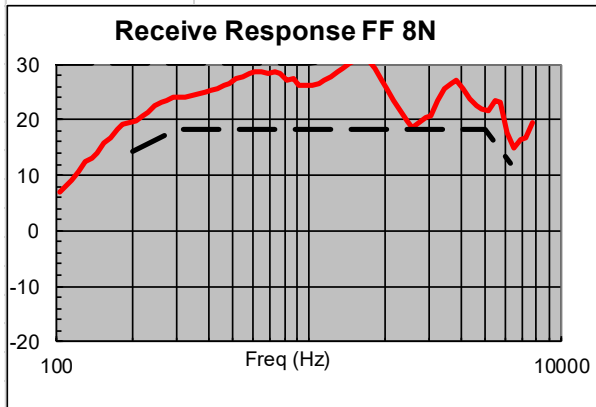
**NR n25 EVS-WB: 24.4 kbps 1,1 RB  $\pi/2$  BPSK**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.58 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.73 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.6 dB	Floating Limits	PASS	



**Output**

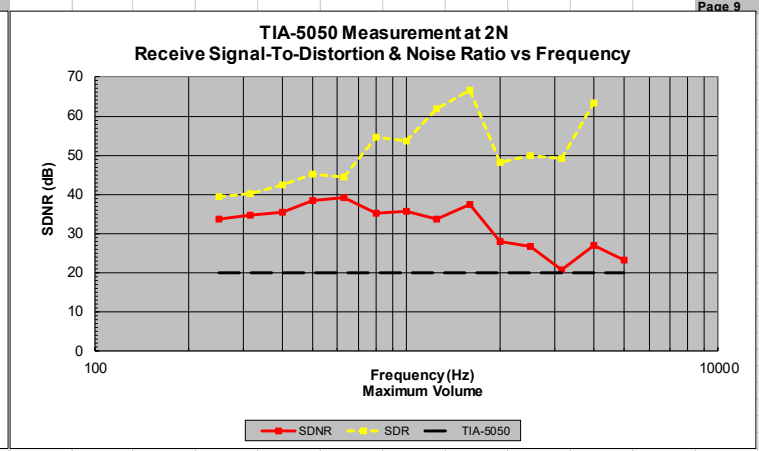
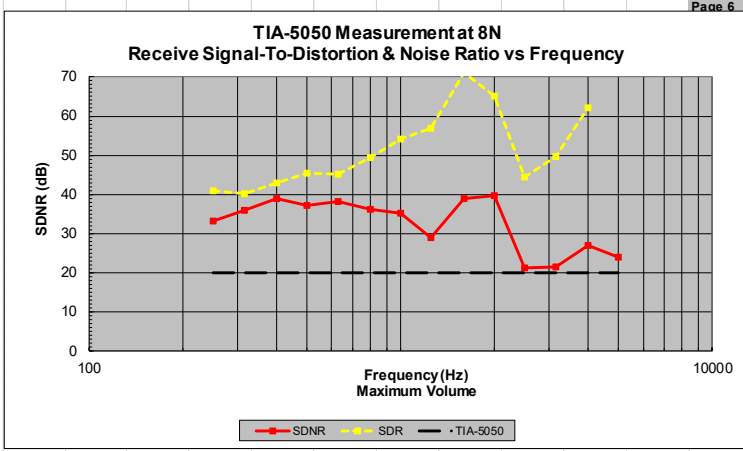
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.65 dB	info only		
	Recv conversational gain 8N	27.65 dB	18.00	PASS	
	Recv output level dB SPL 2N	92.71 dB	info only		
	Recv conversational gain 2N	22.71 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.63 dB	Absolute Limits	PASS	

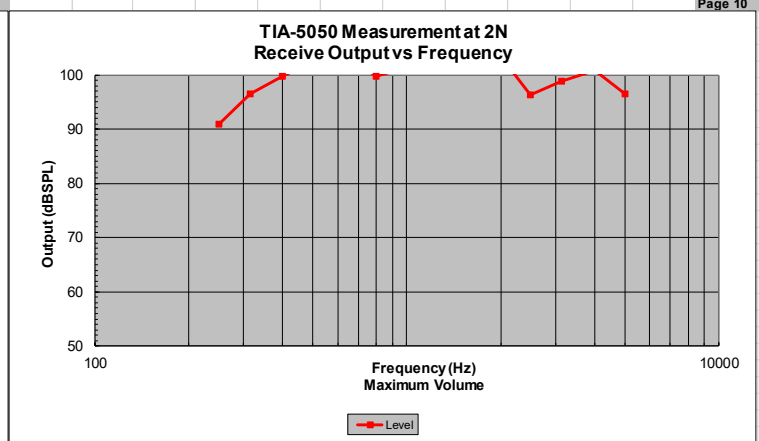
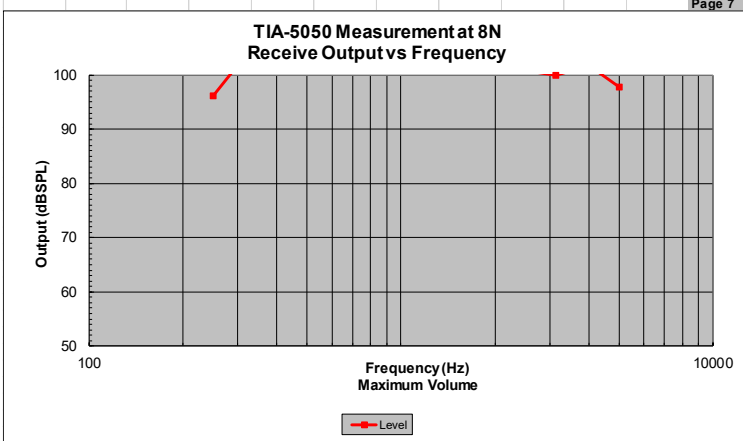
# NR n25 EVS-WB: 24.4 kbps 1,1 RB $\pi/2$ BPSK

## Distortion Report



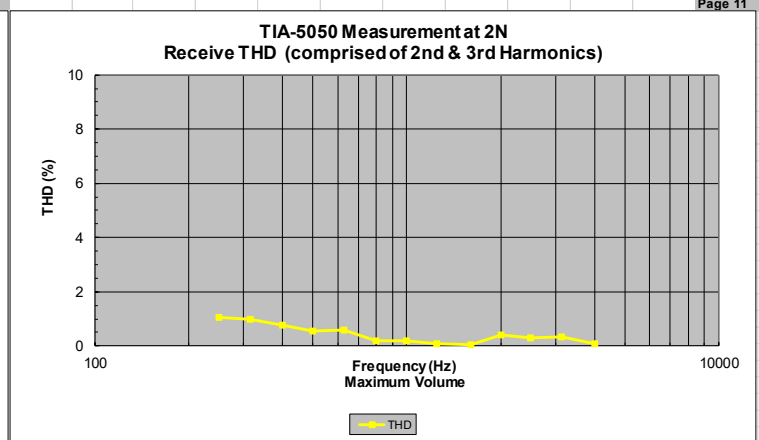
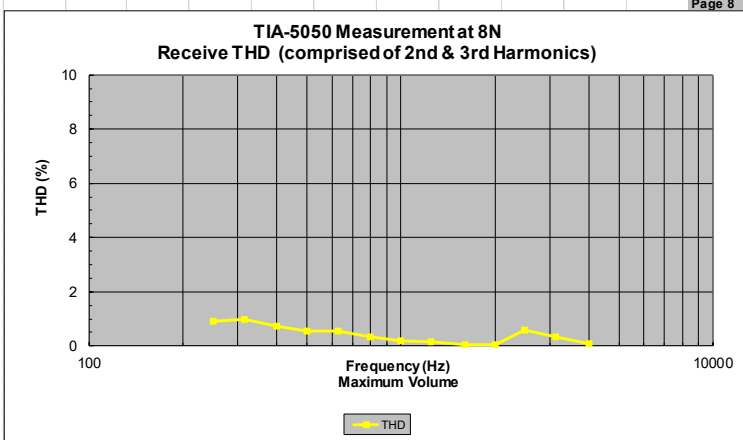
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.2 dB	Absolute Limits	PASS	7/9/2025 2:25
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.63 dB	Absolute Limits	PASS	7/9/2025 2:25
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level: -20 dBPa Sentence conditioning: -20 dBPa Short conditioning: -99 dBPa
Comments:	24.4 kbps			



Test Date
7/9/2025 2:25
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps

Test Date
7/9/2025 2:25
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps



Test Date
7/9/2025 2:25
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps

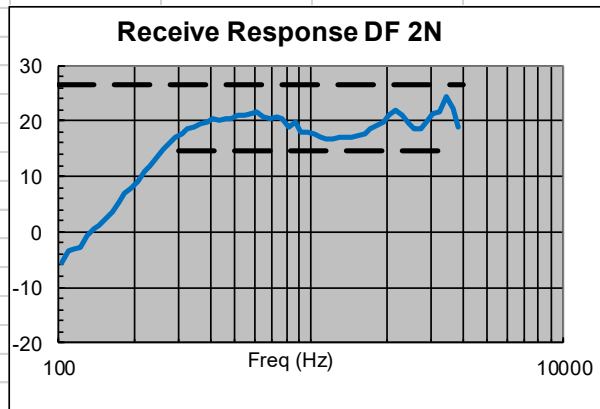
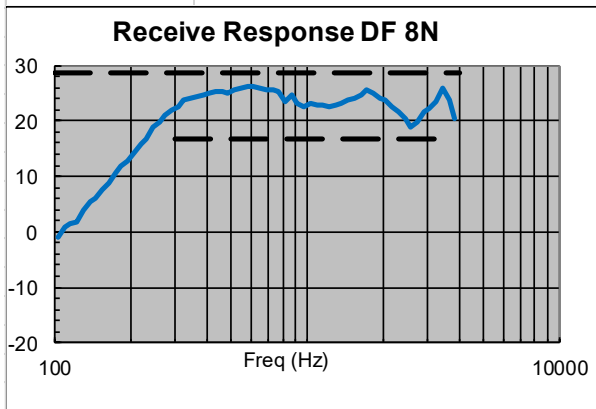
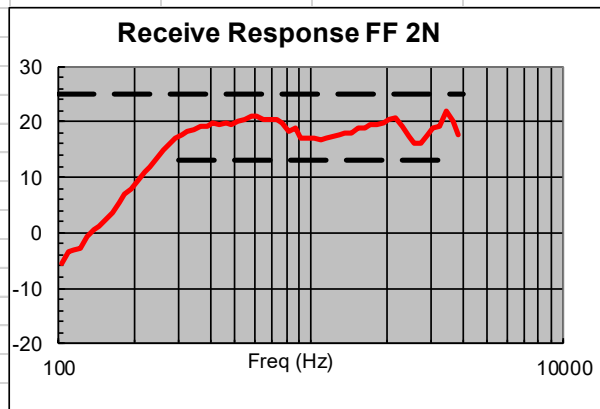
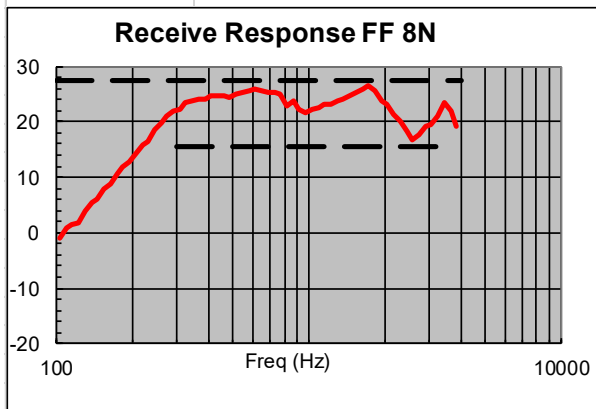
Test Date
7/9/2025 2:25
Stimulus level: -20 dBPa
Sentence conditioning: -20 dBPa
Short conditioning: -99 dBPa
Comments: 24.4 kbps

**NR n25 EVS-NB:9.6 kbps 216,0RB  $\pi/2$  BPSK**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 100RB EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.13 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.35 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.08 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.25 dB	Floating Limits	PASS	



**Output**

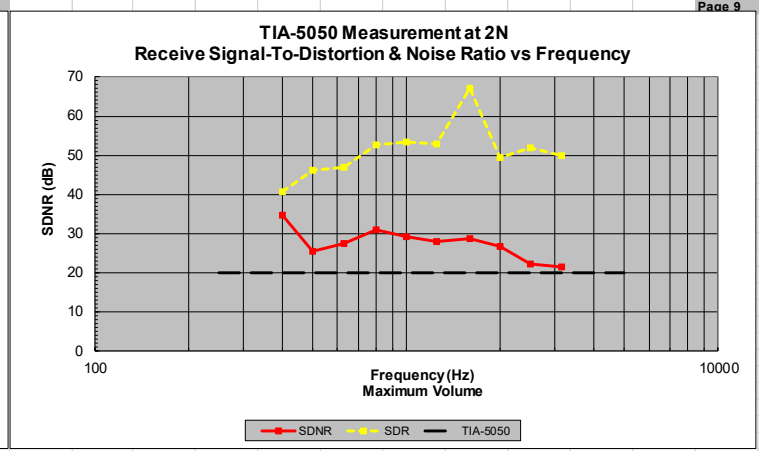
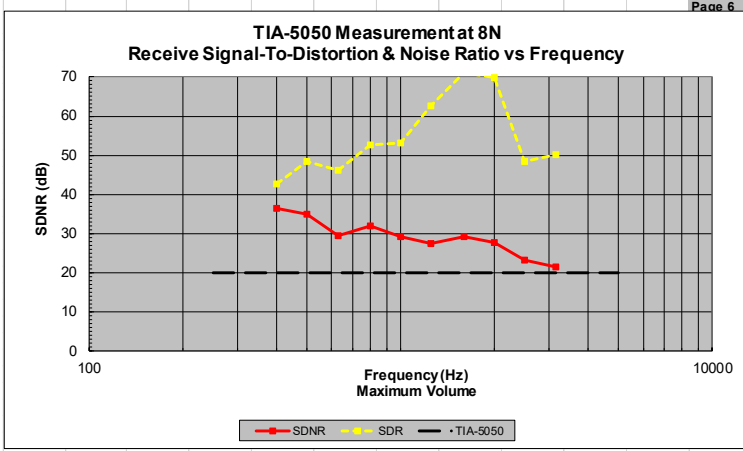
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95 dB	info only		
	Recv conversational gain 8N	25 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.05 dB	info only		
	Recv conversational gain 2N	20.05 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.42 dB	Absolute Limits	PASS	

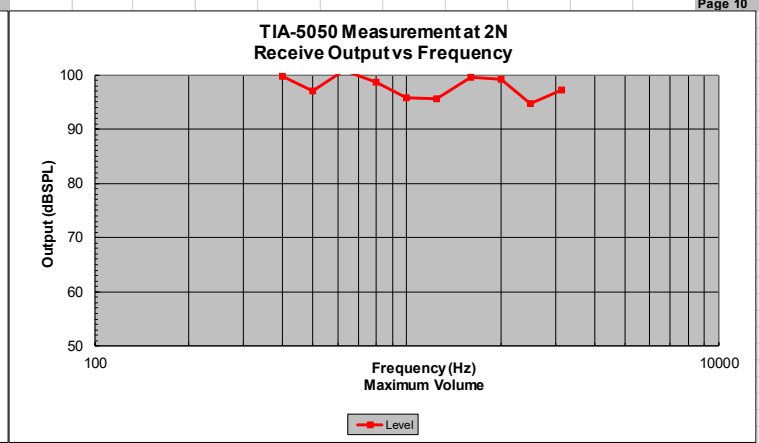
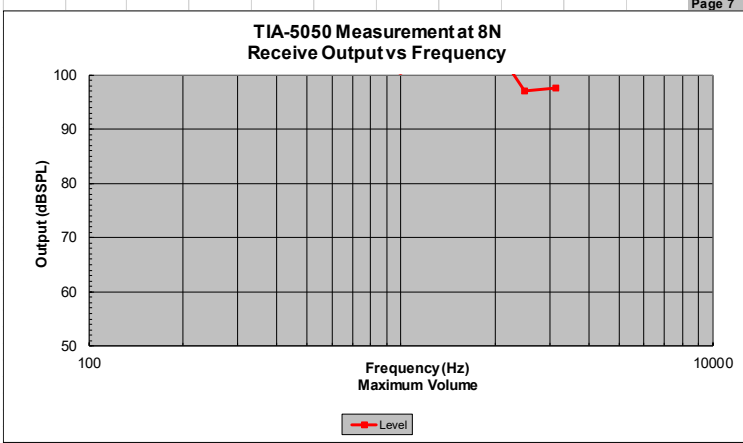
# NR n25 EVS-NB: 9.6 kbps 216,0RB $\pi/2$ BPSK

## Distortion Report



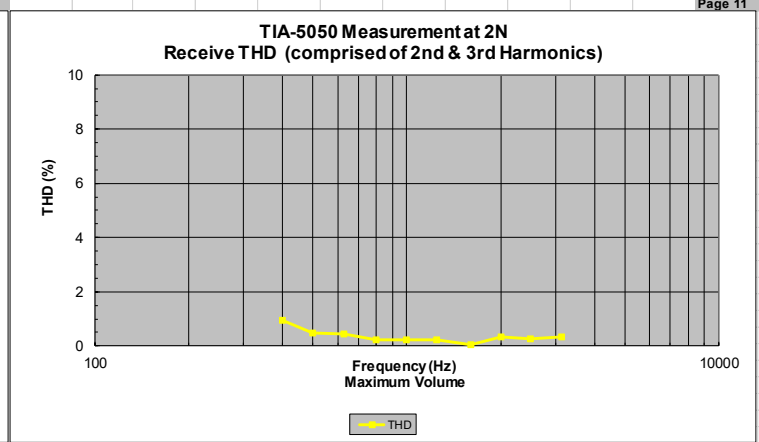
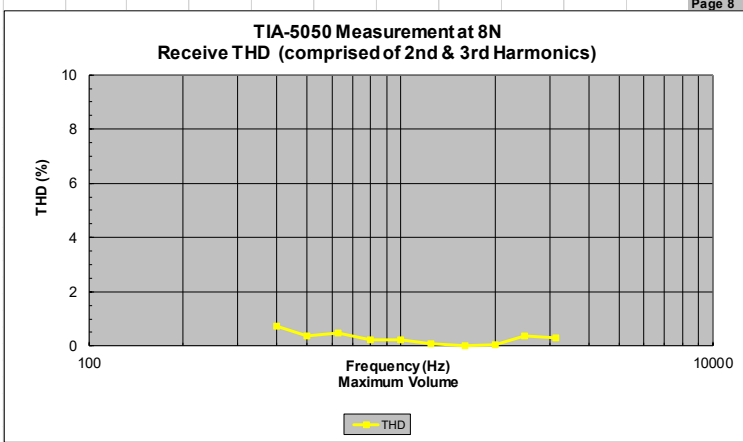
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.6 dB	Absolute Limits	PASS	7/9/2025 2:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.42 dB	Absolute Limits	PASS	7/9/2025 2:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date	
7/9/2025 2:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 2:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 2:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 2:38	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

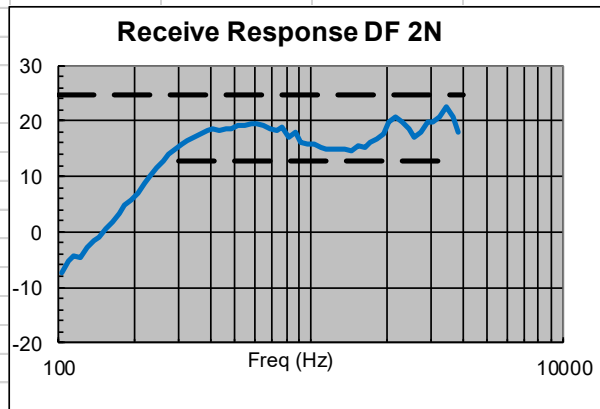
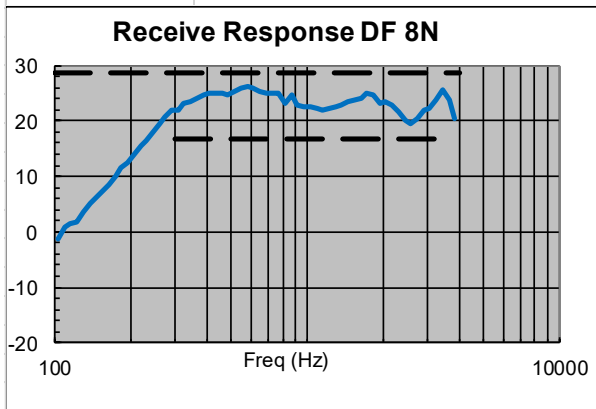
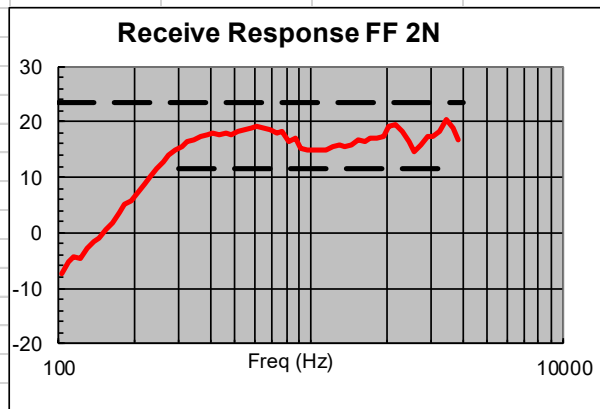
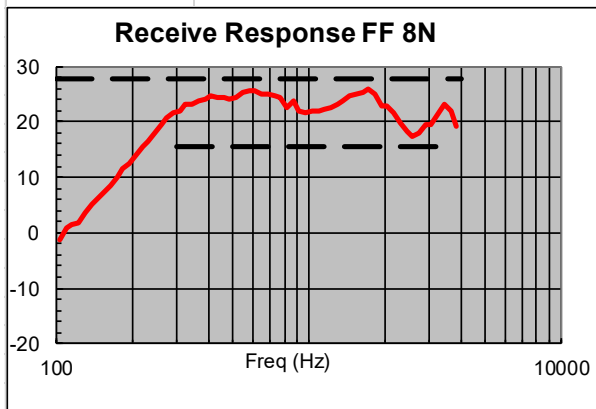
**NR n25 EVS-NB: 9.6 kbps 1,1 RB QPSK  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 QPSK EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.61 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.72 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.19 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.03 dB	Floating Limits	PASS	



**Output**

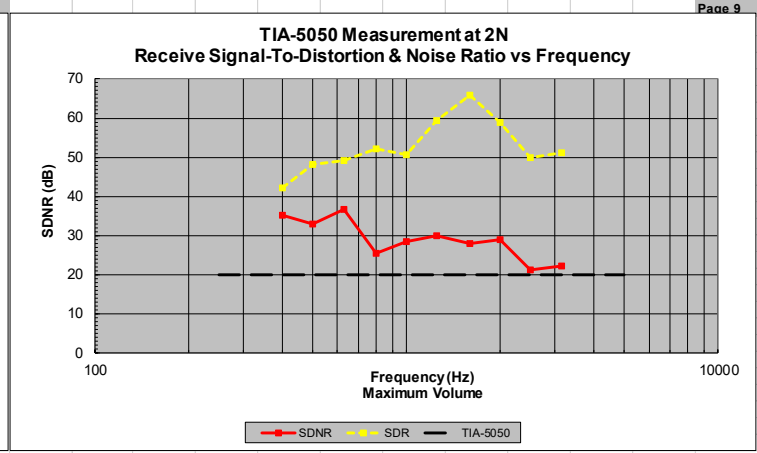
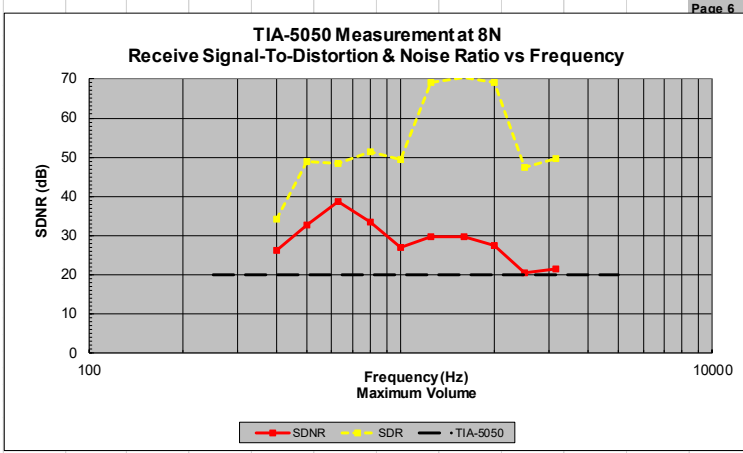
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	94.69 dB	info only		
	Recv conversational gain 8N	24.69 dB	18.00	PASS	
	Recv output level dBSPL 2N	88.17 dB	info only		
	Recv conversational gain 2N	18.17 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.25 dB	Absolute Limits	PASS	

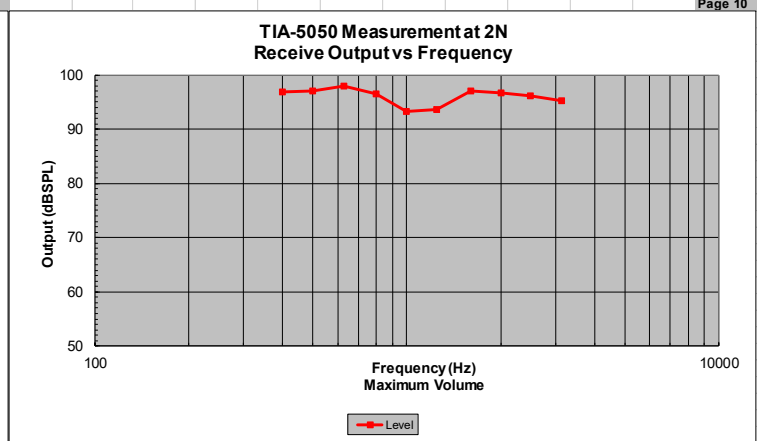
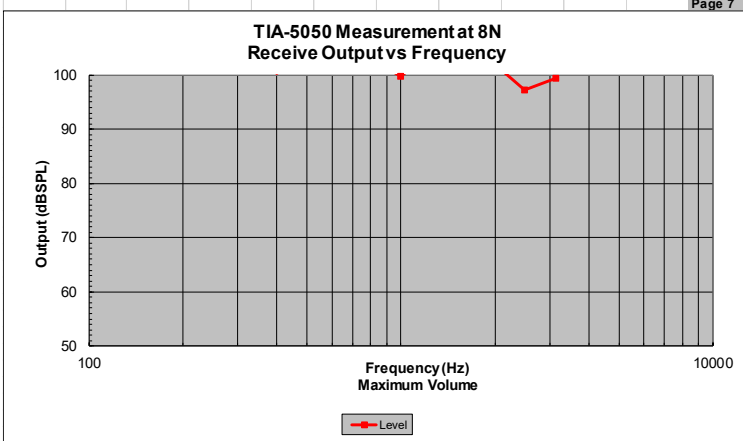
# NR n25 EVS-NB: 9.6 kbps 1,1 RB QPSK

## Distortion Report



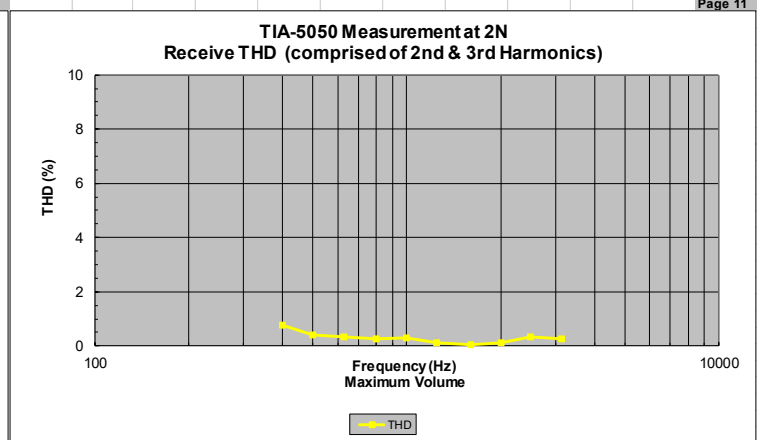
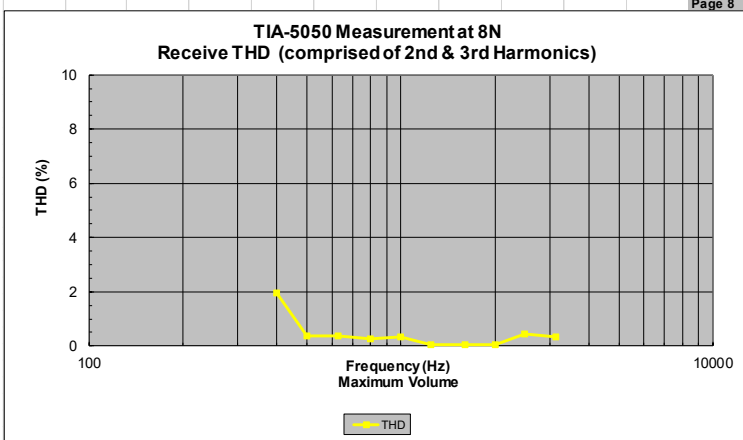
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.4 dB	Absolute Limits	PASS	7/9/2025 15:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.25 dB	Absolute Limits	PASS	7/9/2025 15:40
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 15:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 15:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 15:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

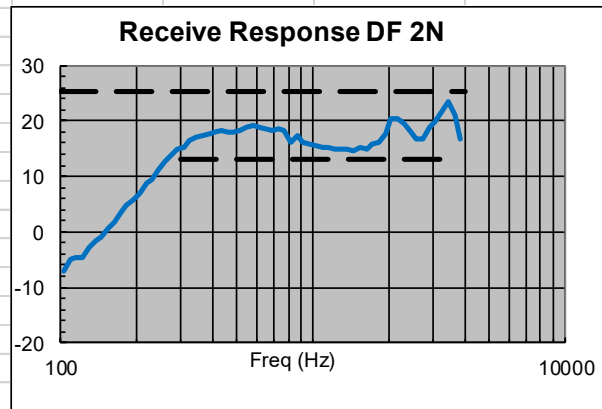
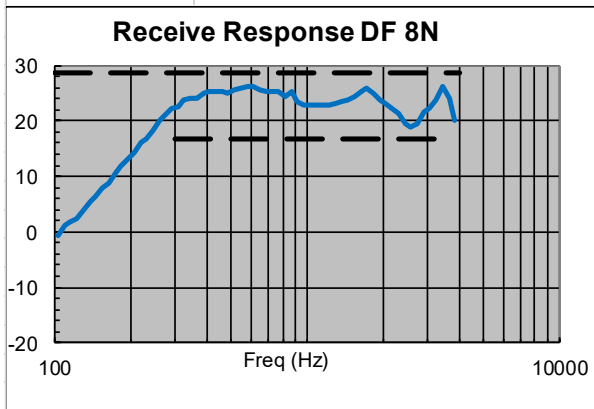
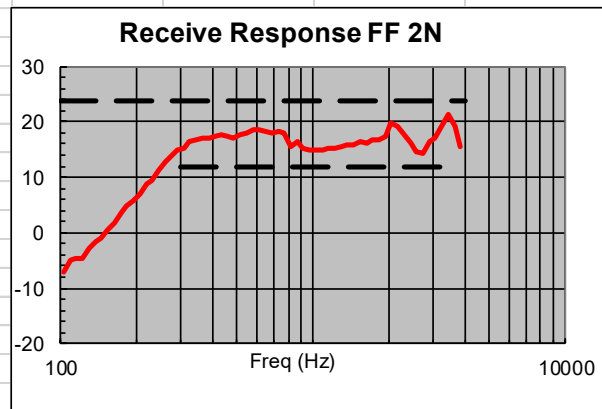
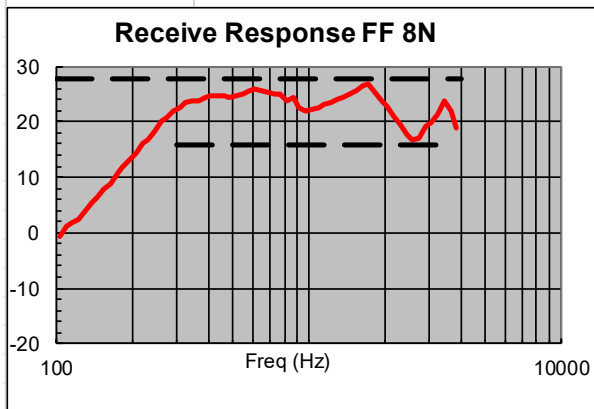
Test Date	
7/9/2025 15:40	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**NR n25 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 16QAM EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.97 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.33 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.56 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.53 dB	Floating Limits	PASS	



**Output**

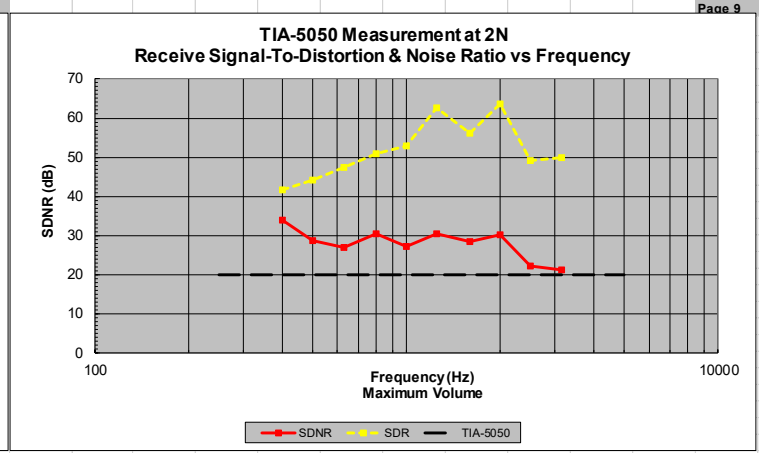
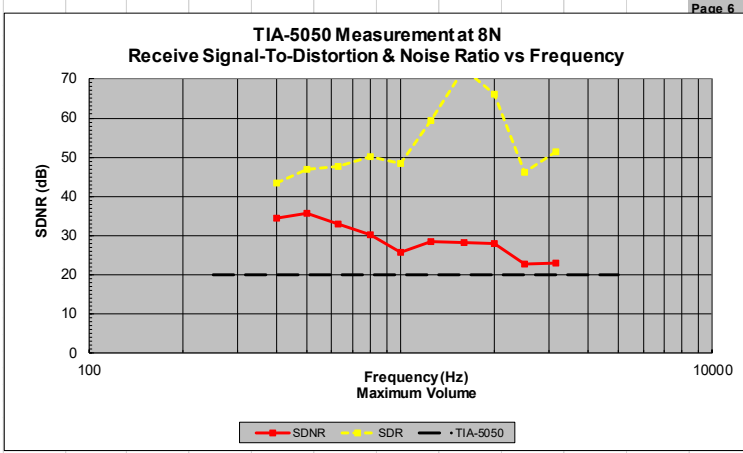
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.01 dB	info only		
	Recv conversational gain 8N	25.01 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.81 dB	info only		
	Recv conversational gain 2N	17.81 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.19 dB	Absolute Limits	PASS	

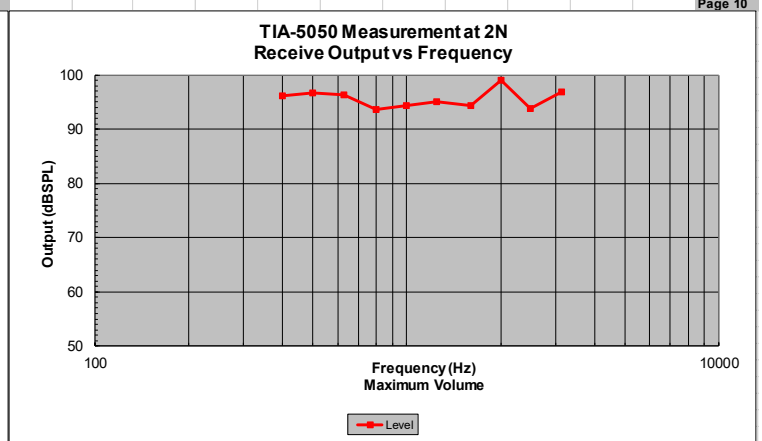
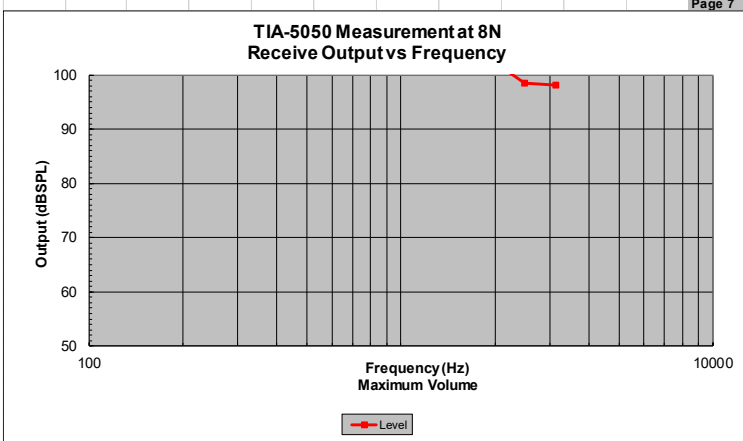
# NR n25 EVS-NB: 9.6 kbps 1,10 RB 16QAM

## Distortion Report



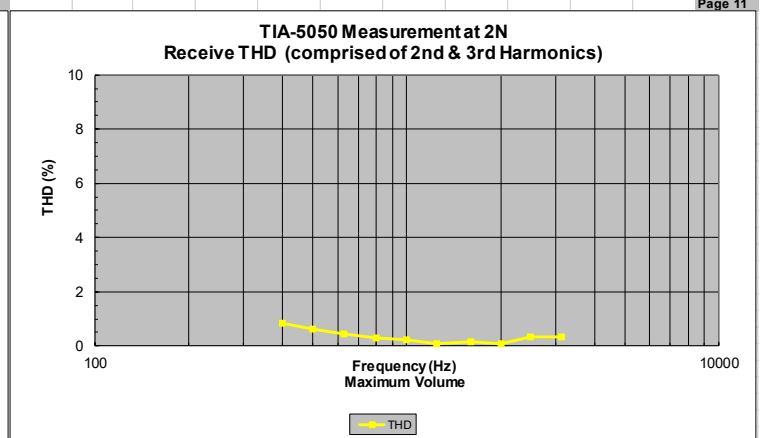
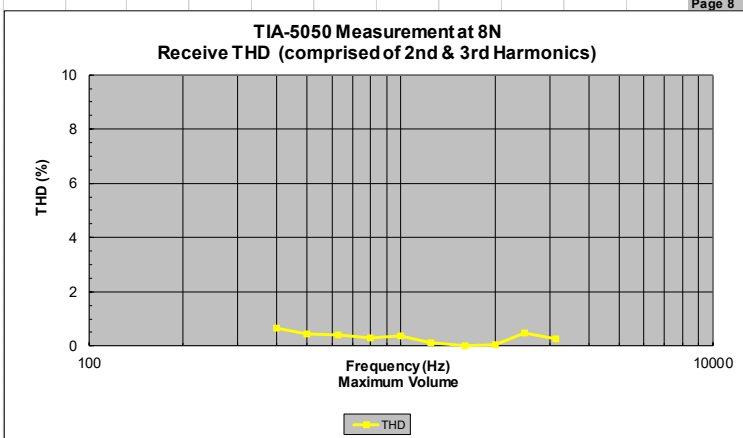
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.8 dB	Absolute Limits	PASS	7/9/2025 16:31
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.19 dB	Absolute Limits	PASS	7/9/2025 16:31
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date		
7/9/2025 16:31		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 16:31		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	



Test Date		
7/9/2025 16:31		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 16:31		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

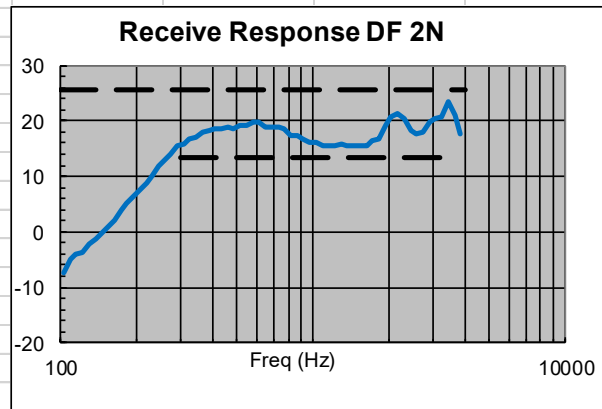
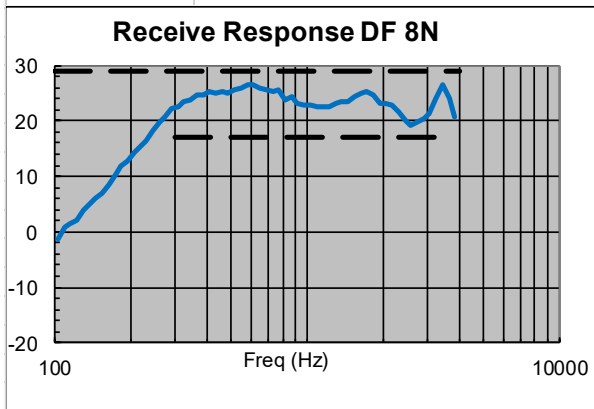
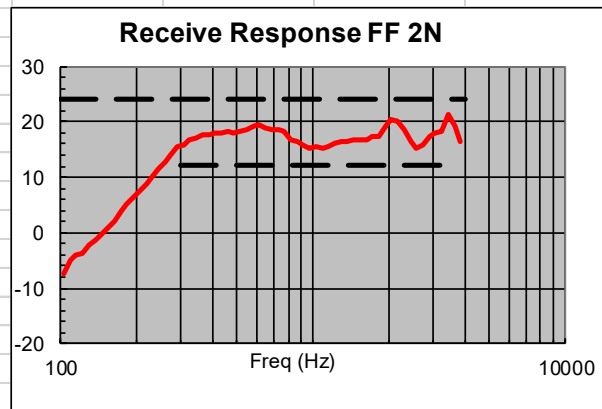
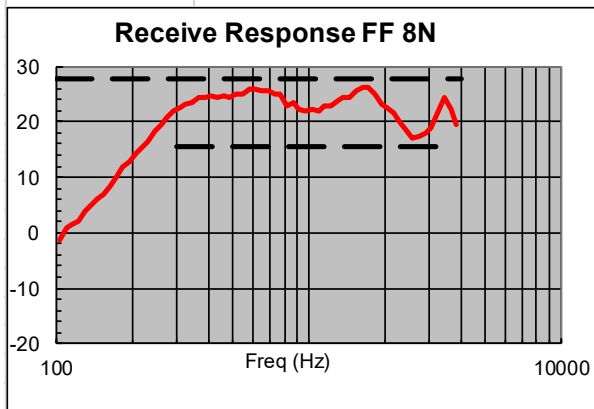


**NR n25 EVS-NB: 9.6 kbps 1,1 RB 64QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 64QAM EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.43 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.35 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.95 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.91 dB	Floating Limits	PASS	



**Output**

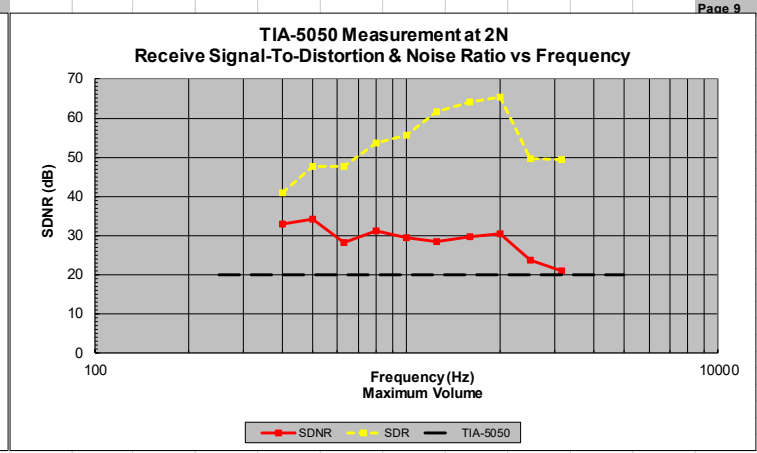
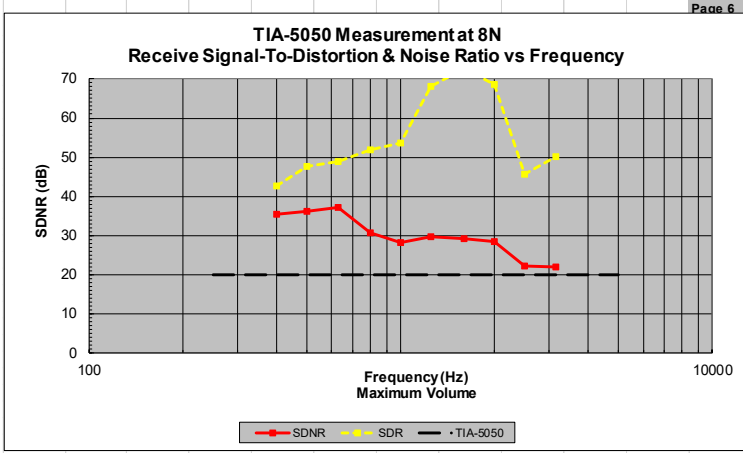
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.98 dB	info only		
	Recv conversational gain 8N	24.98 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.38 dB	info only		
	Recv conversational gain 2N	18.38 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.92 dB	Absolute Limits	PASS	

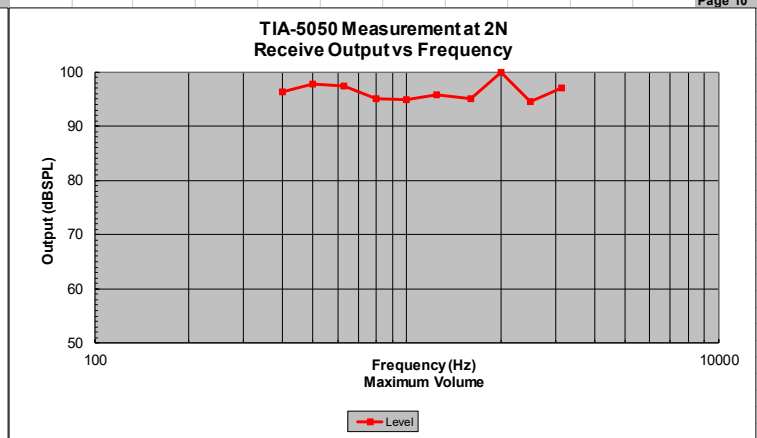
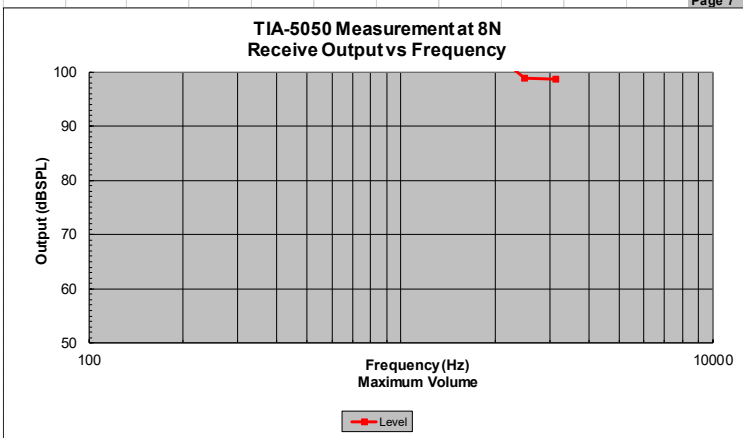
# NR n25 EVS-NB: 9.6 kbps 1,1 RB 64QAM

## Distortion Report



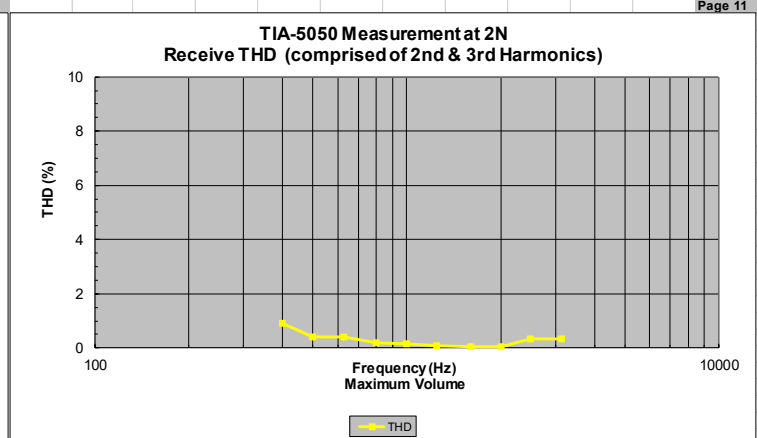
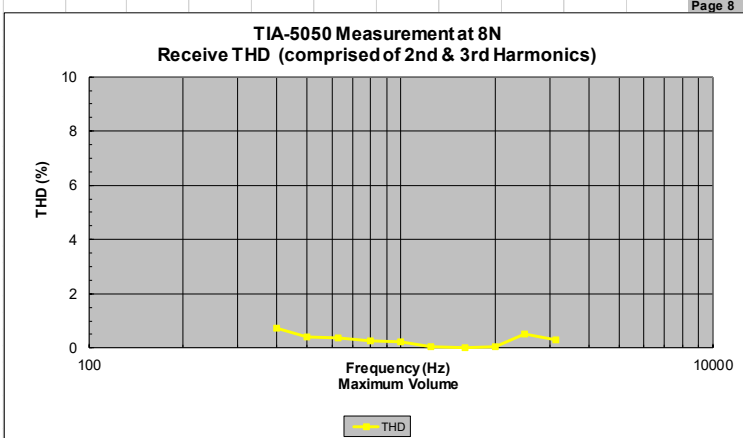
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	7/9/2025 16:54
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.92 dB	Absolute Limits	PASS	7/9/2025 16:54
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 16:54	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 16:54	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 16:54	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 16:54	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

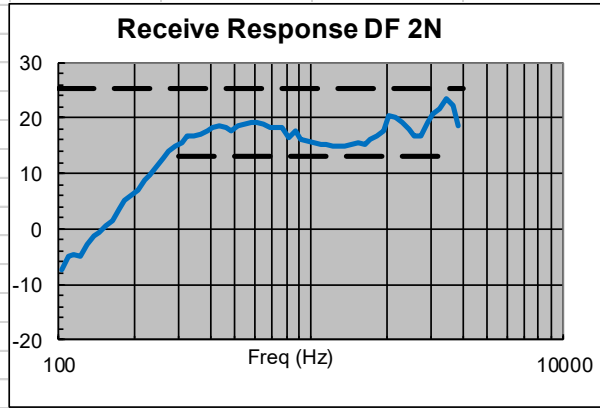
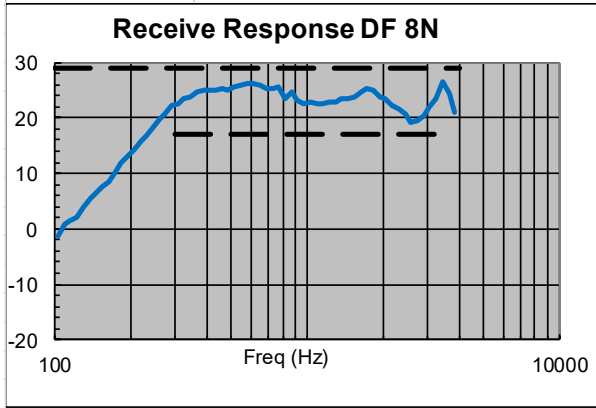
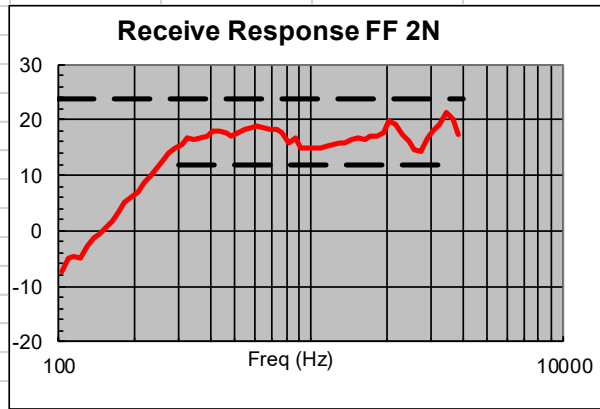
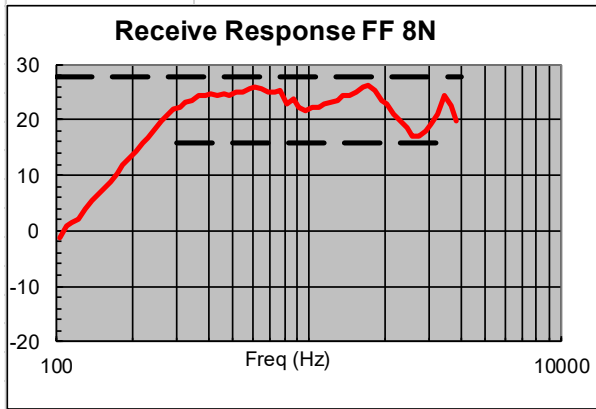
**NR n25 EVS-NB: 9.6 kbps 1,1 RB 256QAM  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 256QAM EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.34 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.33 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.6 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.69 dB	Floating Limits	PASS	



**Output**

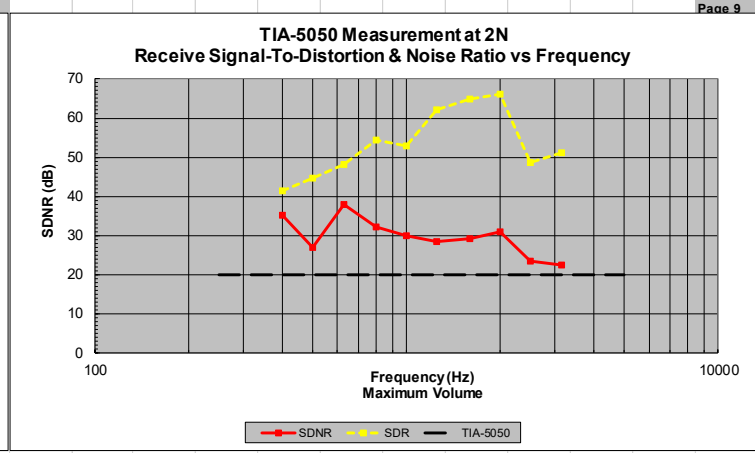
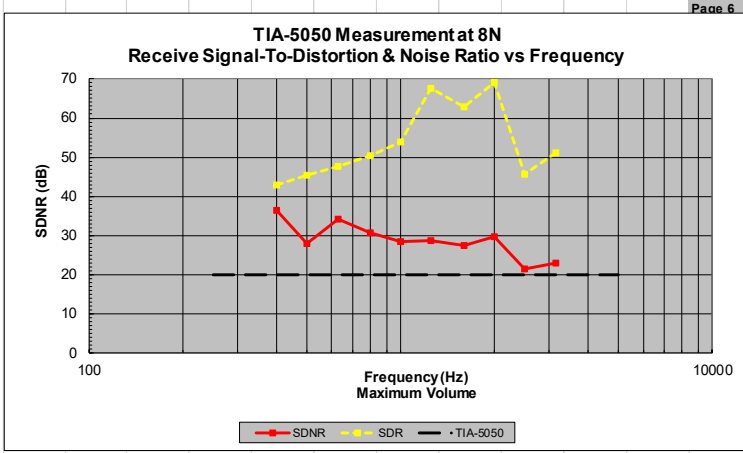
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.94 dB	info only		
	Recv conversational gain 8N	24.94 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.97 dB	info only		
	Recv conversational gain 2N	17.97 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.37 dB	Absolute Limits	PASS	

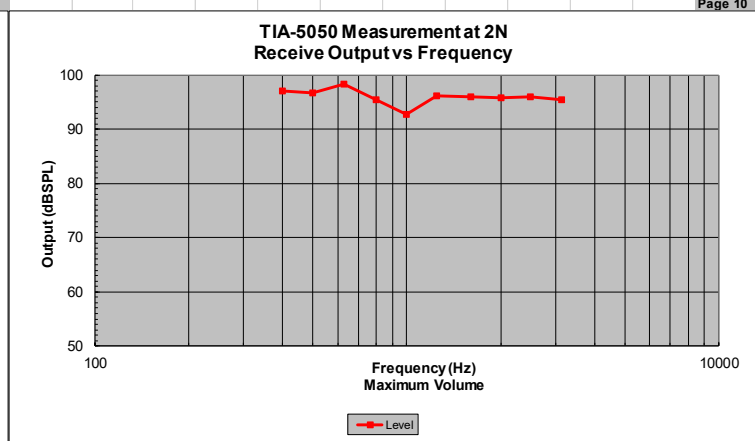
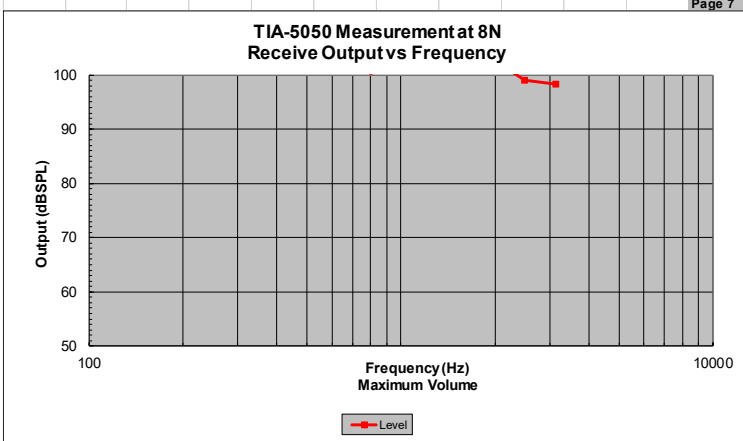
# NR n25 EVS-NB: 9.6 kbps 1,1 RB 256QAM

## Distortion Report



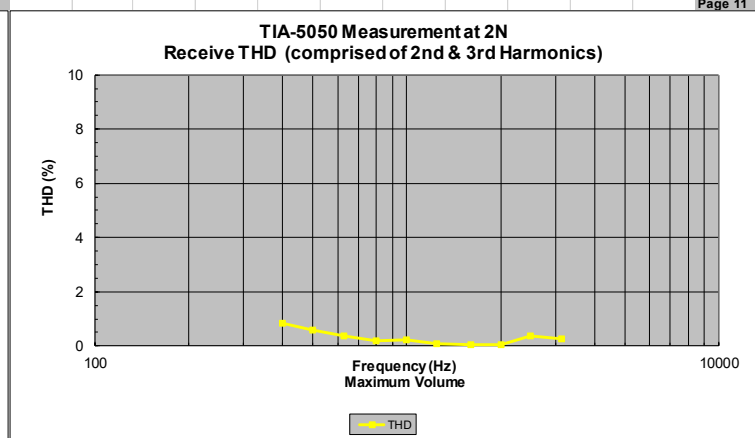
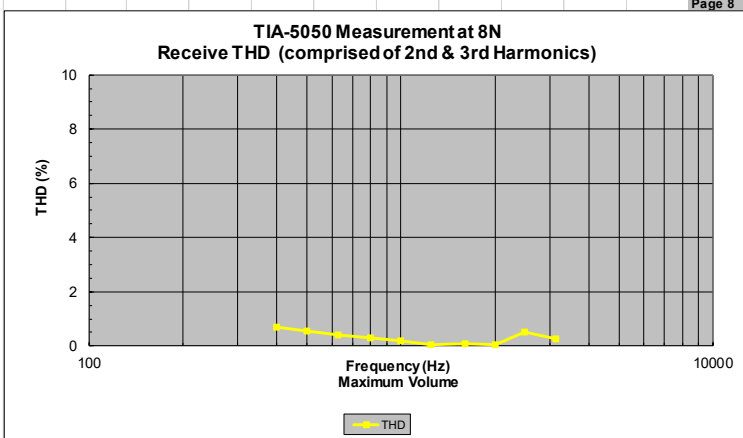
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	7/9/2025 17:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.37 dB	Absolute Limits	PASS	7/9/2025 17:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 17:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 17:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 17:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 17:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

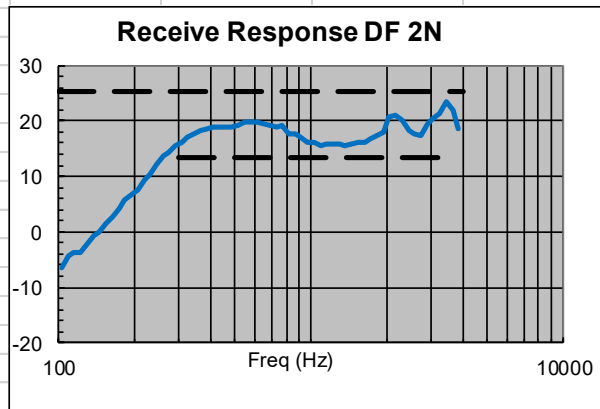
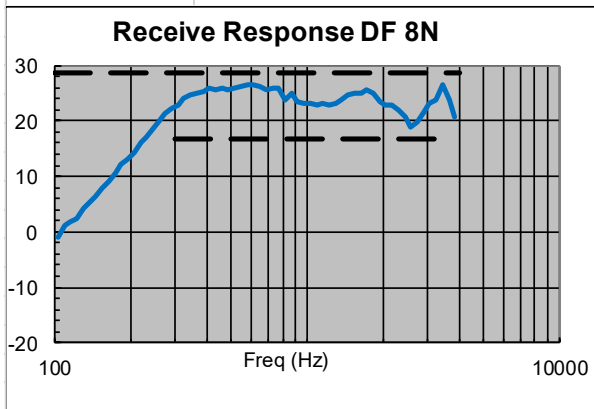
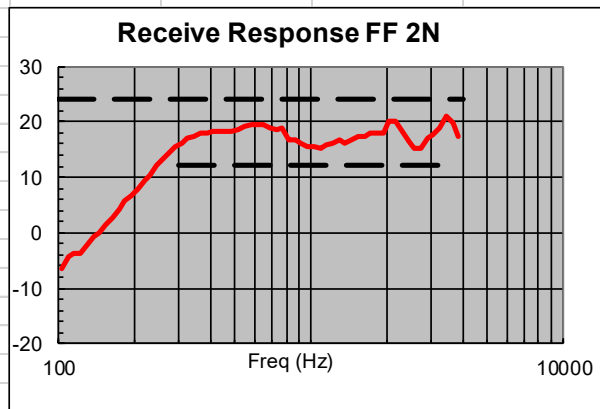
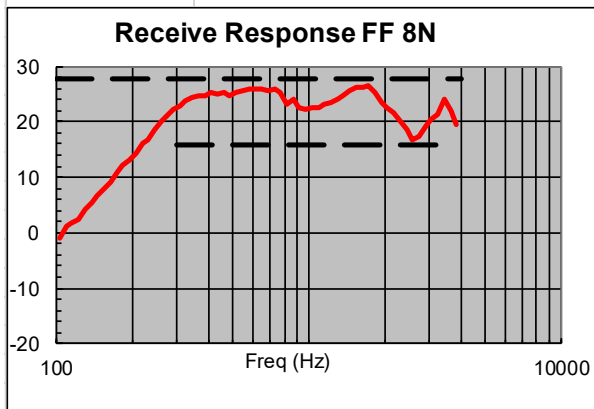
**NR n25 EVS-NB: 9.6 kbps 1,1 RB 5 MHz 16QAM  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n25 5 MHz EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.04 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.23 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.06 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.02 dB	Floating Limits	PASS	



**Output**

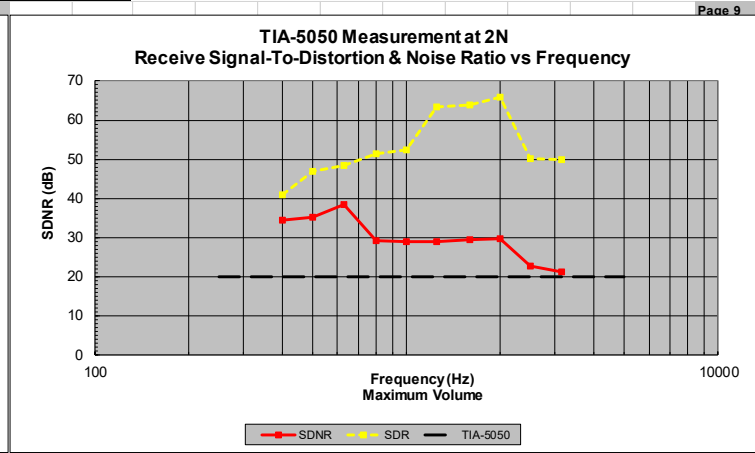
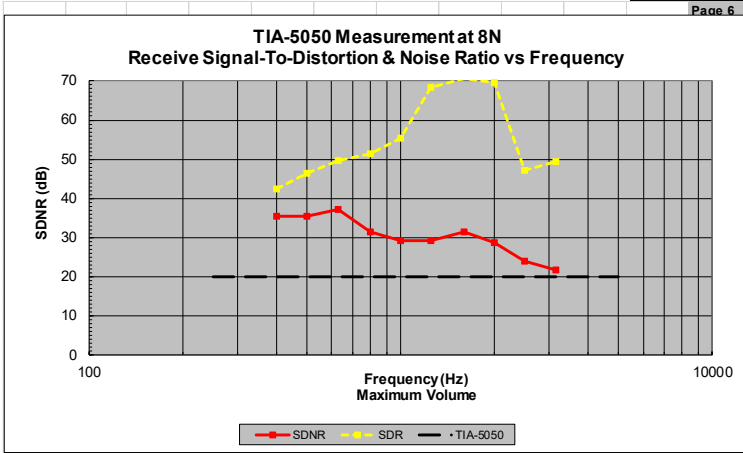
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.37 dB	info only		
	Recv conversational gain 8N	25.37 dB	18.00	PASS	
	Recv output level dBSPL 2N	88.65 dB	info only		
	Recv conversational gain 2N	18.65 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.3 dB	Absolute Limits	PASS	

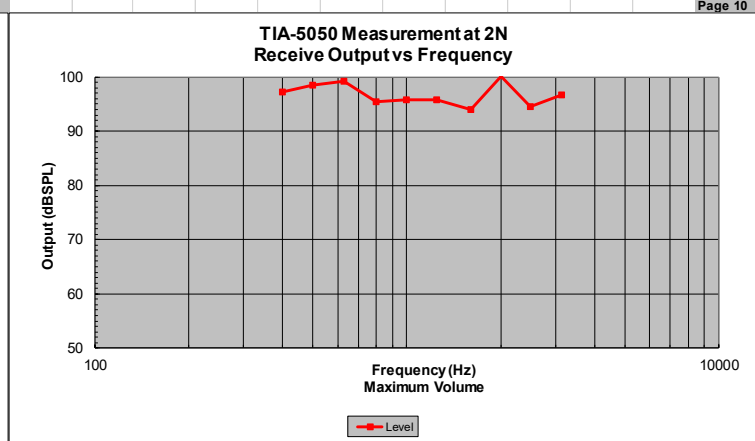
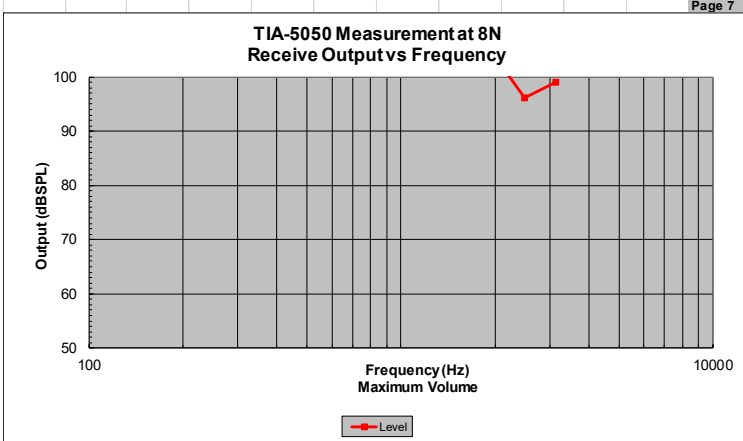
# NR n25 EVS-NB: 9.6 kbps 1,1 RB 5 MHz 16QAM

## Distortion Report



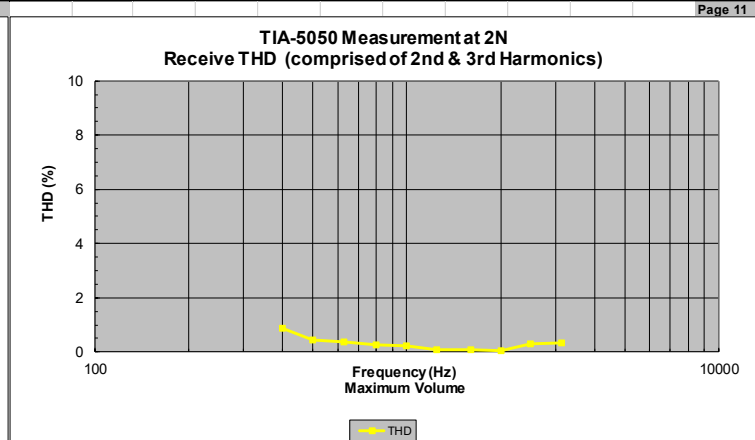
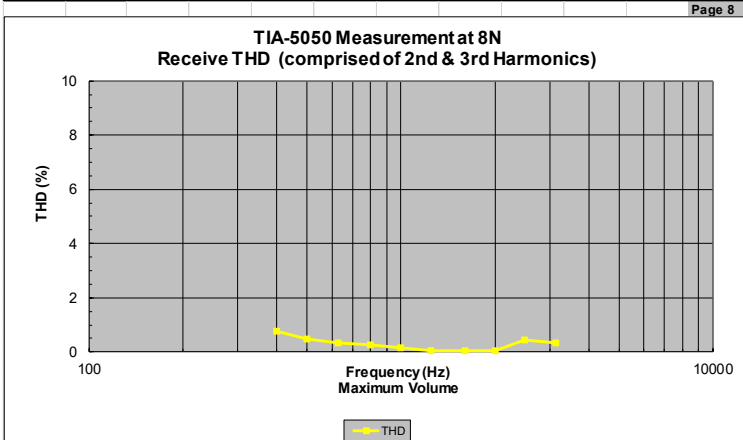
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.7 dB	Absolute Limits	PASS	7/9/2025 18:12
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.3 dB	Absolute Limits	PASS	7/9/2025 18:12
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 18:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 18:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:12	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

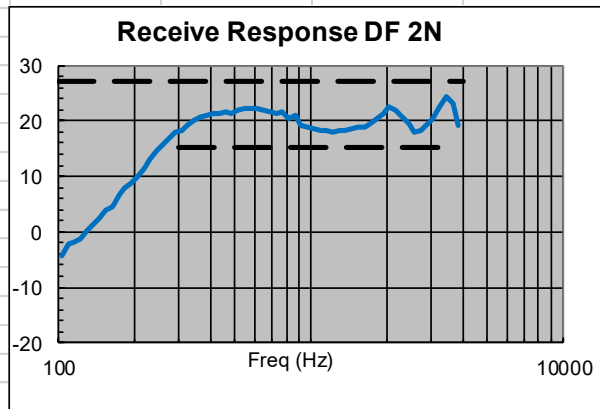
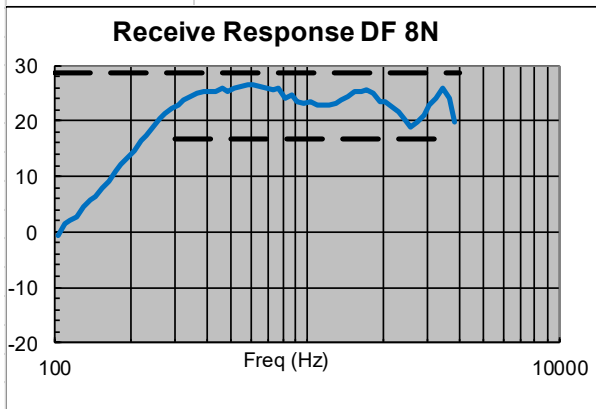
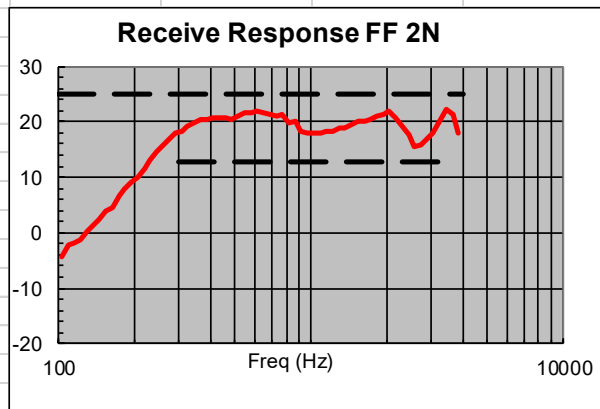
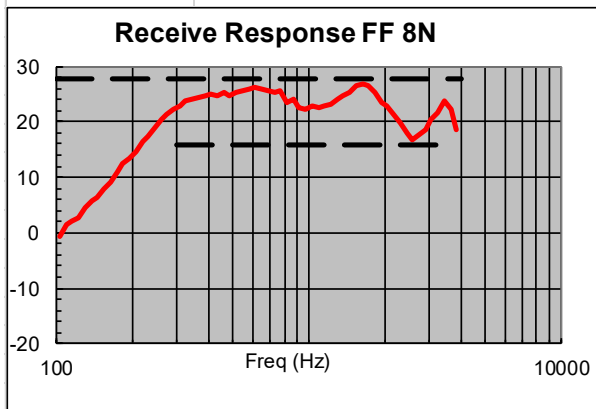
**NR n7 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n7 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.18 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.73 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.69 dB	Floating Limits	PASS	



**Output**

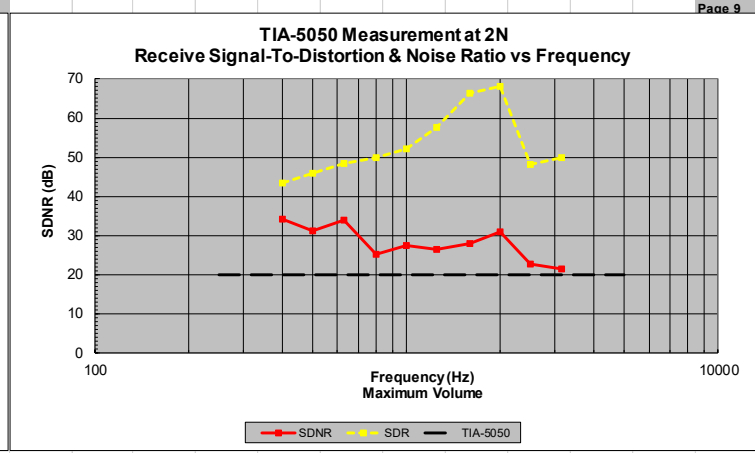
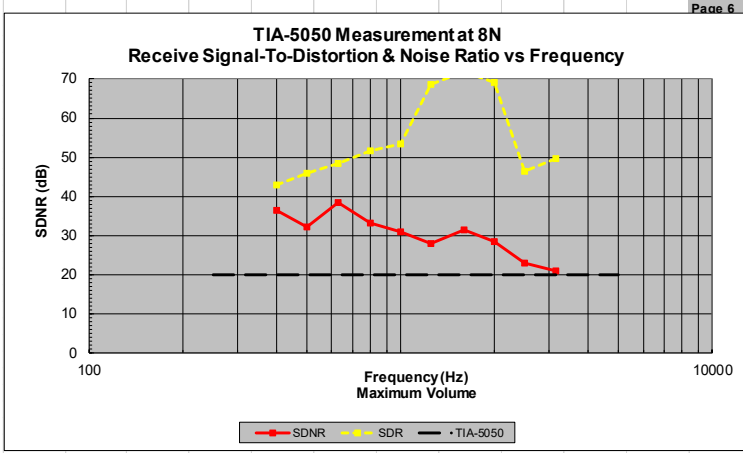
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.31 dB	info only		
	Recv conversational gain 8N	25.31 dB	18.00	PASS	
	Recv output level dB SPL 2N	91.02 dB	info only		
	Recv conversational gain 2N	21.02 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.43 dB	Absolute Limits	PASS	

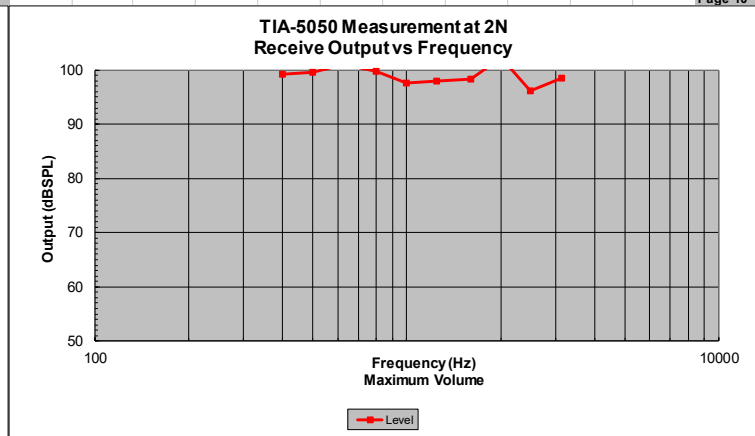
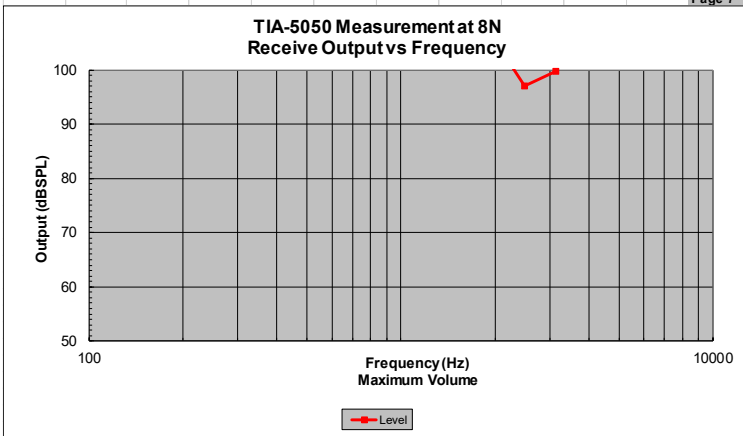
# NR n7 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



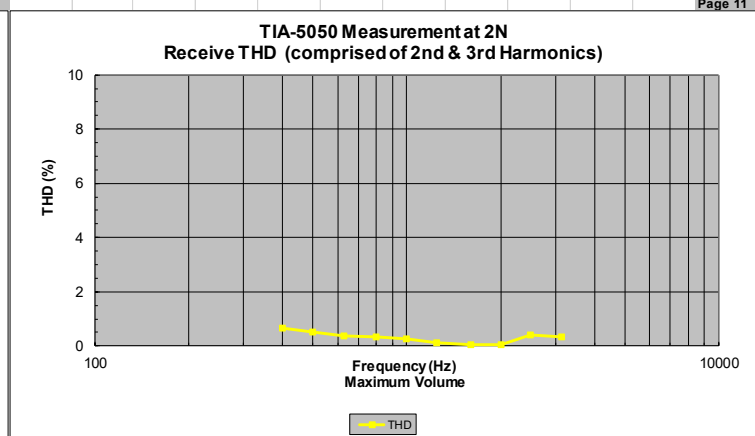
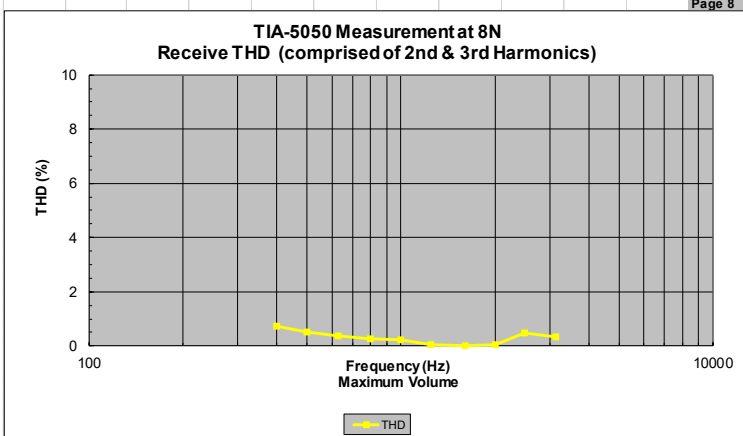
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	7/9/2025 18:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.43 dB	Absolute Limits	PASS	7/9/2025 18:36
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 18:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 18:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:36	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

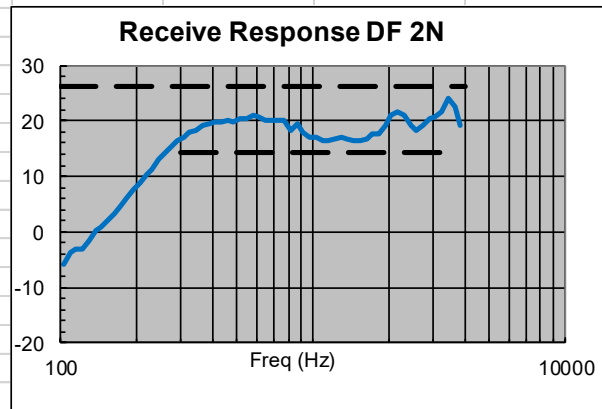
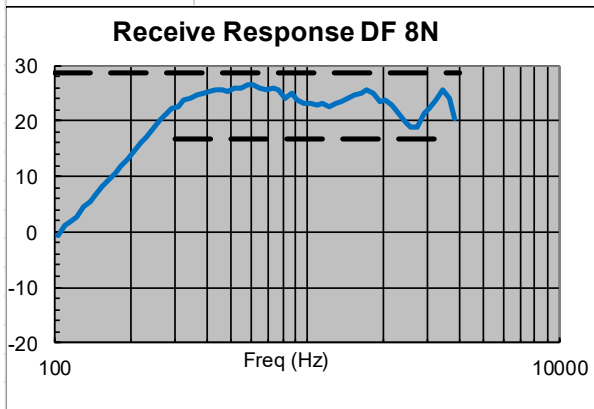
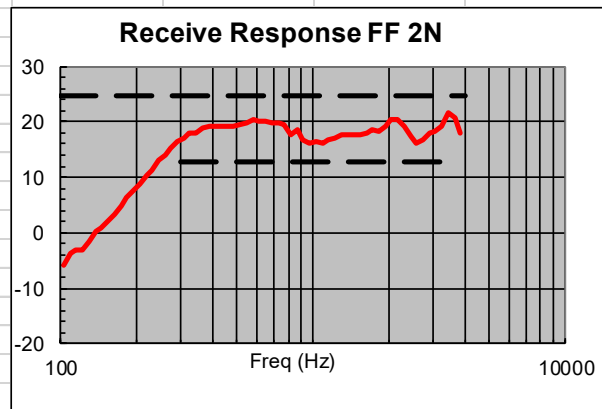
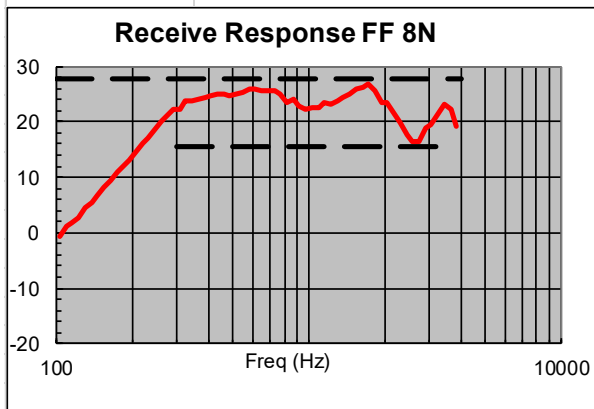


**NR n12 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n12 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.94 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.19 dB	Floating Limits	PASS	
	Recv resp FF 2N	3.24 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.26 dB	Floating Limits	PASS	



**Output**

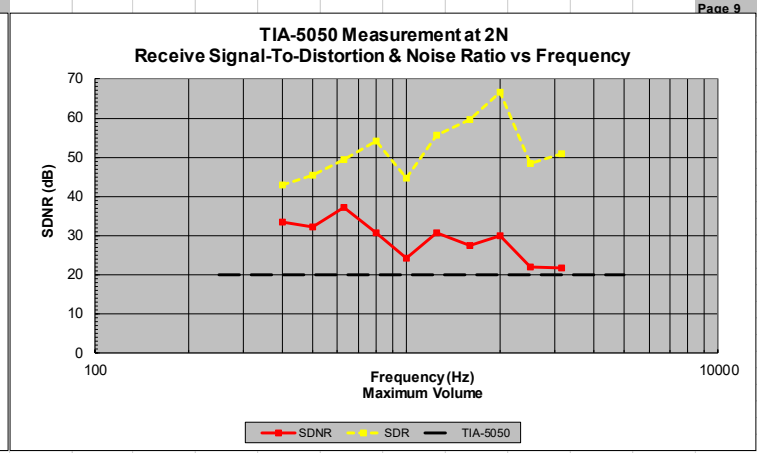
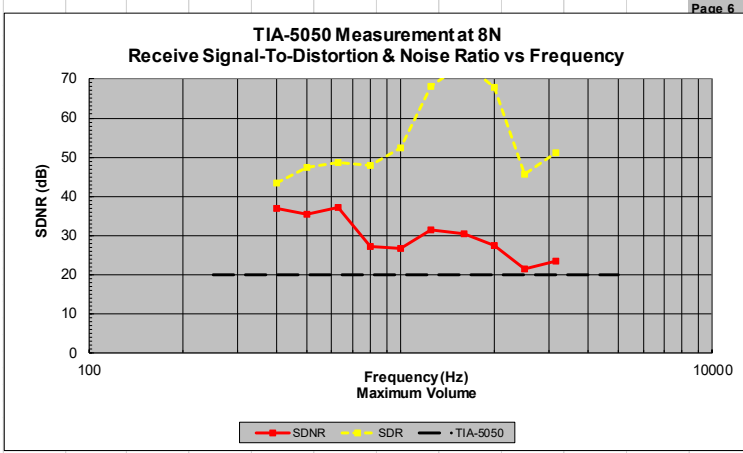
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.19 dB	info only		
	Recv conversational gain 8N	25.19 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.53 dB	info only		
	Recv conversational gain 2N	19.53 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.84 dB	Absolute Limits	PASS	

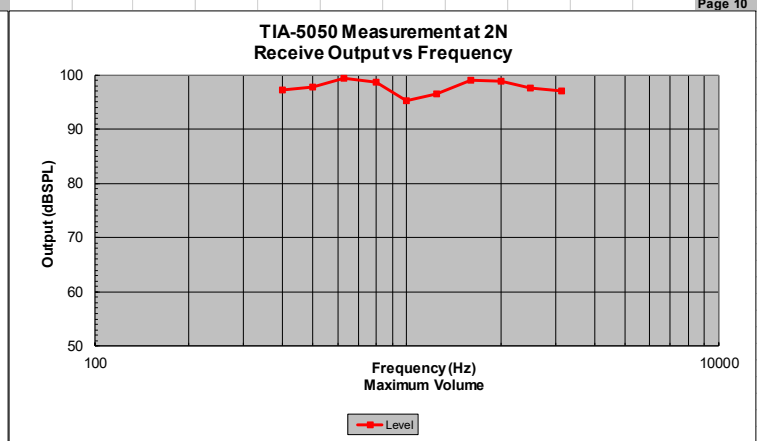
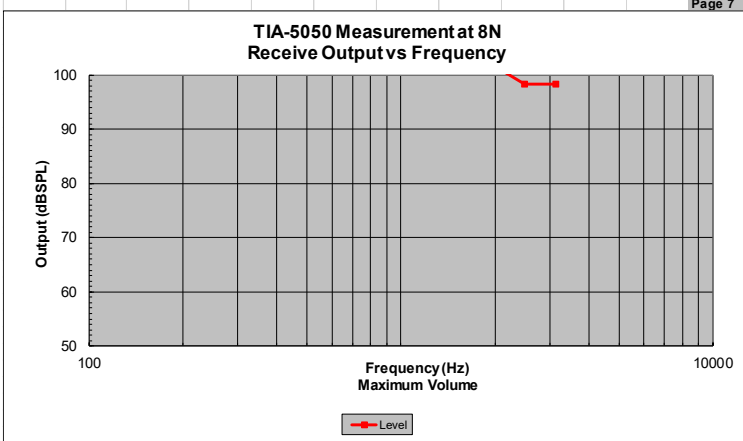
# NR n12 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



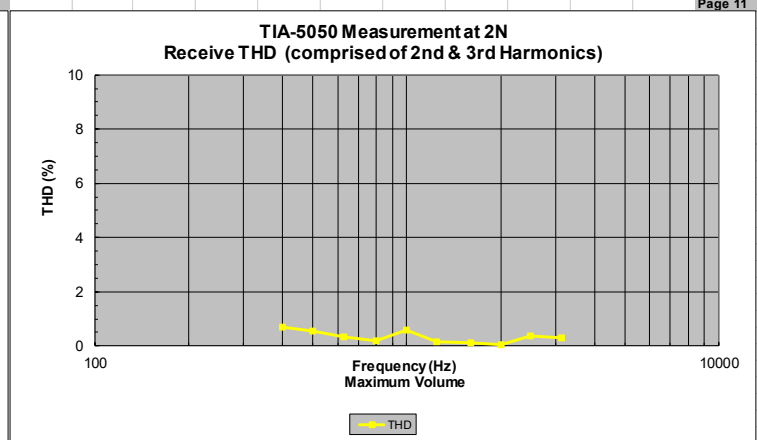
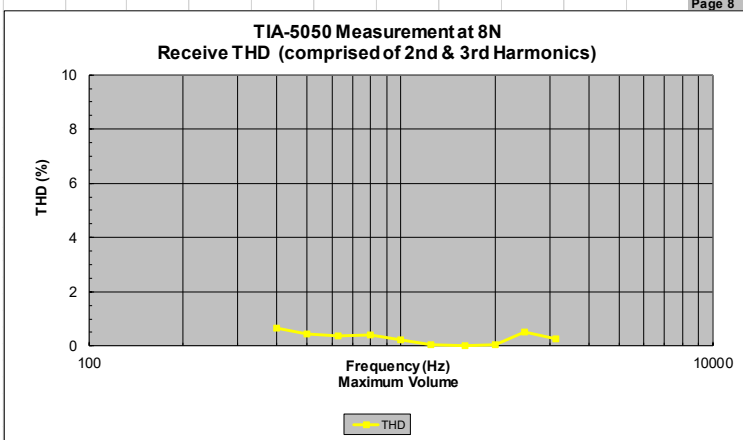
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.5 dB	Absolute Limits	PASS	7/9/2025 18:51
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.84 dB	Absolute Limits	PASS	7/9/2025 18:51
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 18:51	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:51	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 18:51	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

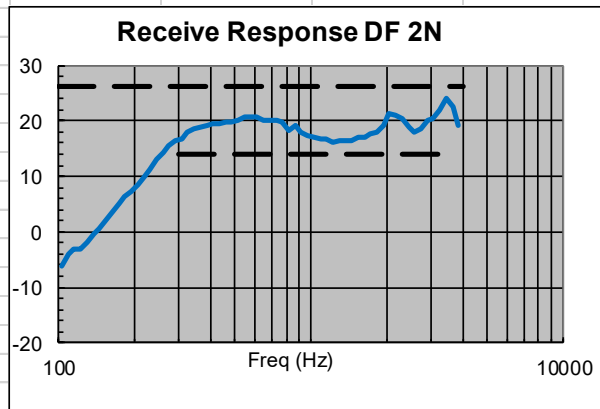
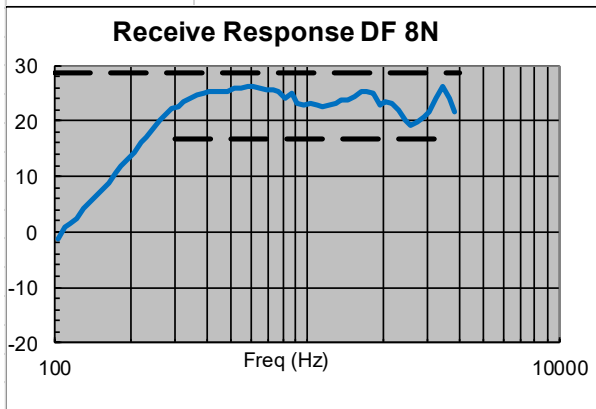
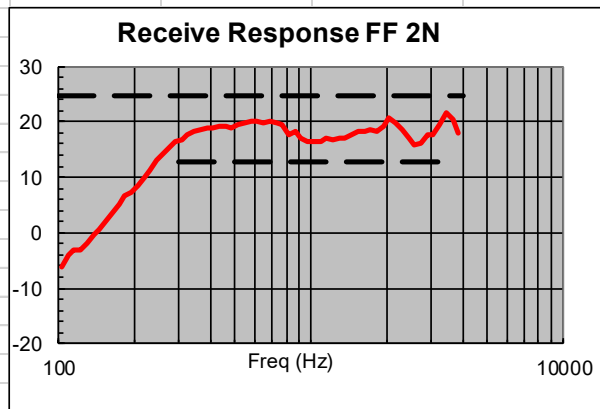
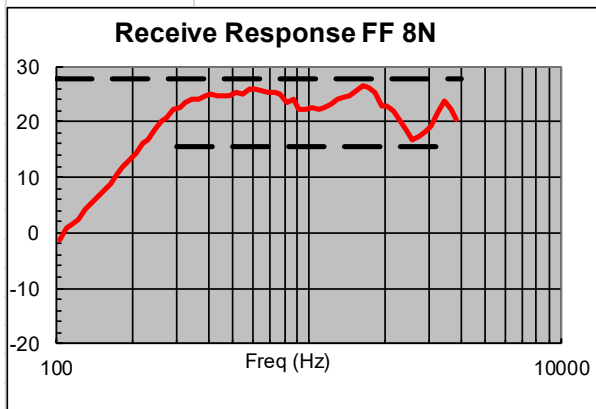
Test Date	
7/9/2025 18:51	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**NR n30 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n30 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.24 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.39 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.99 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.05 dB	Floating Limits	PASS	



**Output**

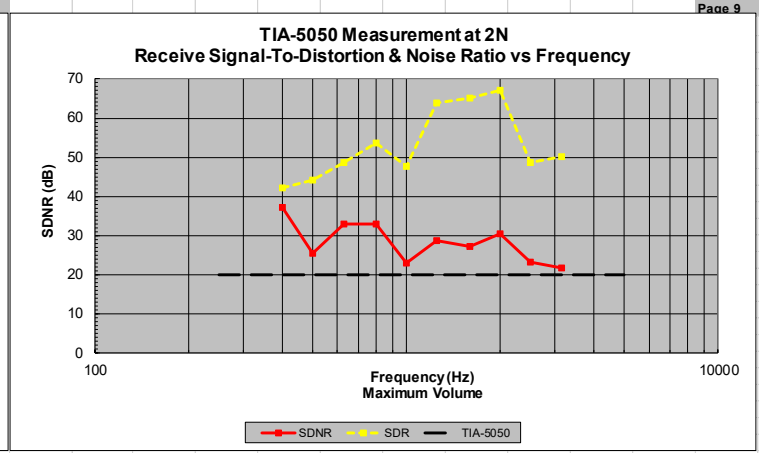
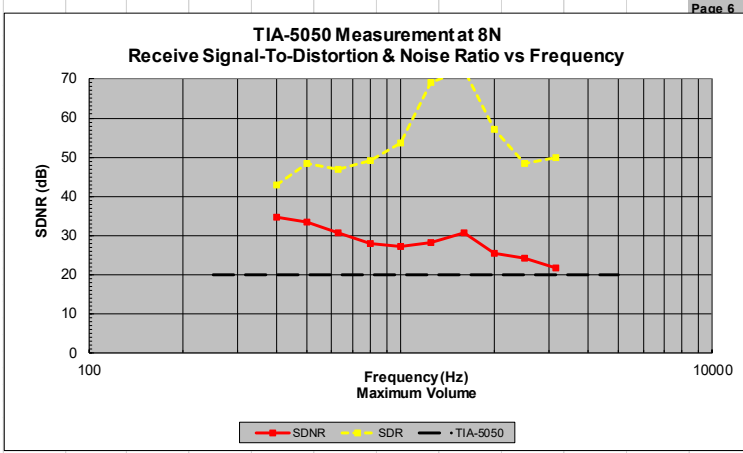
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.12 dB	info only		
	Recv conversational gain 8N	25.12 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.46 dB	info only		
	Recv conversational gain 2N	19.46 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.76 dB	Absolute Limits	PASS	

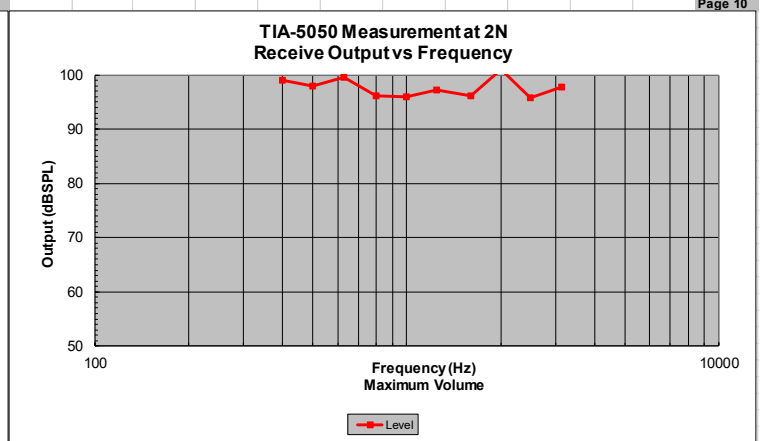
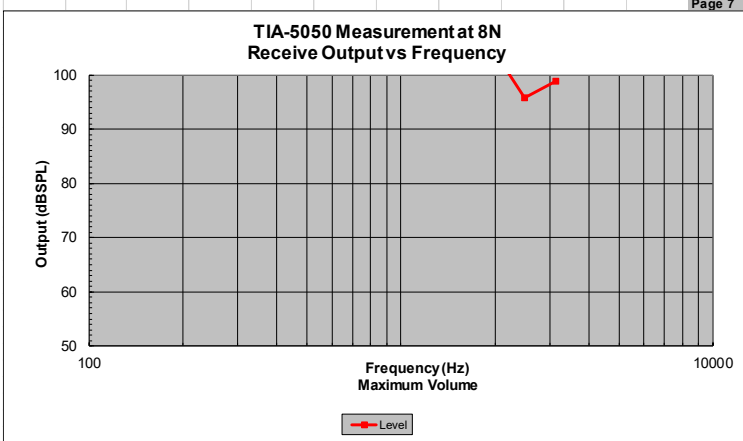
# NR n30 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



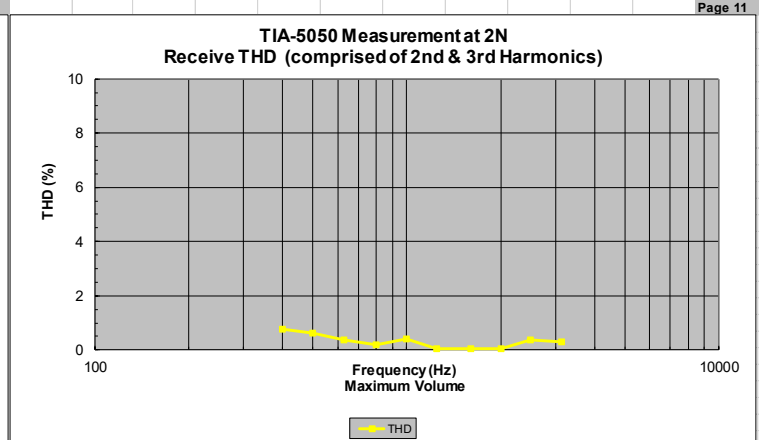
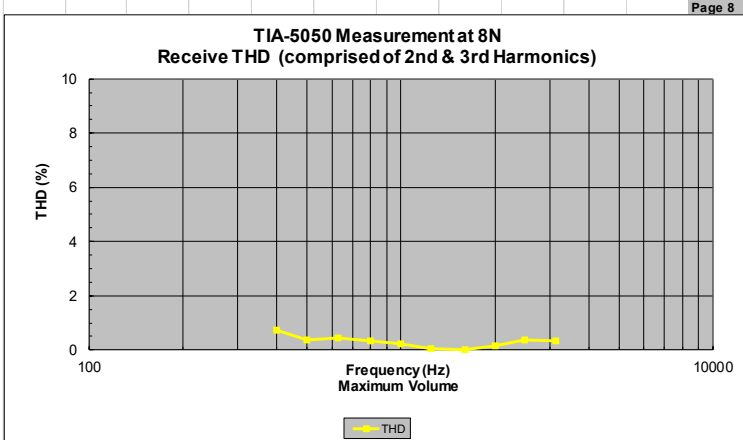
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.8 dB	Absolute Limits	PASS	7/9/2025 18:59
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.76 dB	Absolute Limits	PASS	7/9/2025 18:59
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 18:59	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:59	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 18:59	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 18:59	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

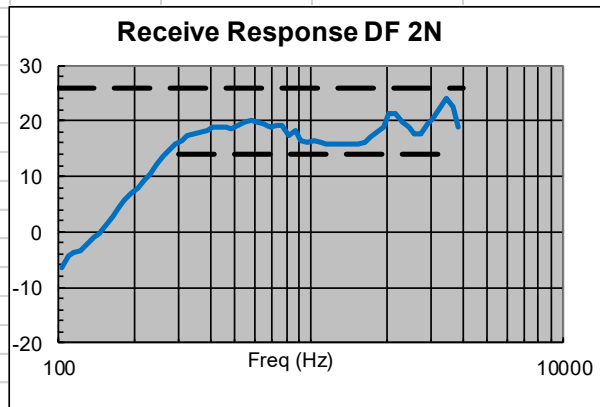
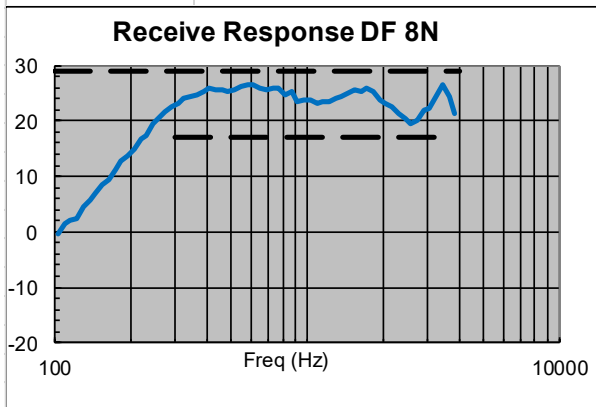
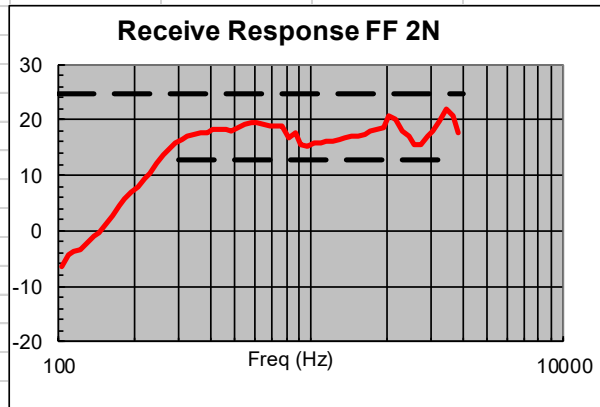
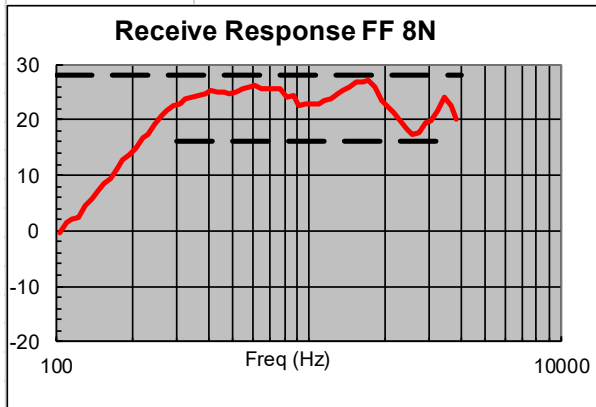
**NR n41 PC3 EVS-NB: 9.6 kbps 1,1 RB 16QAM  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n41 PC3 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.09 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.46 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.73 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.74 dB	Floating Limits	PASS	



**Output**

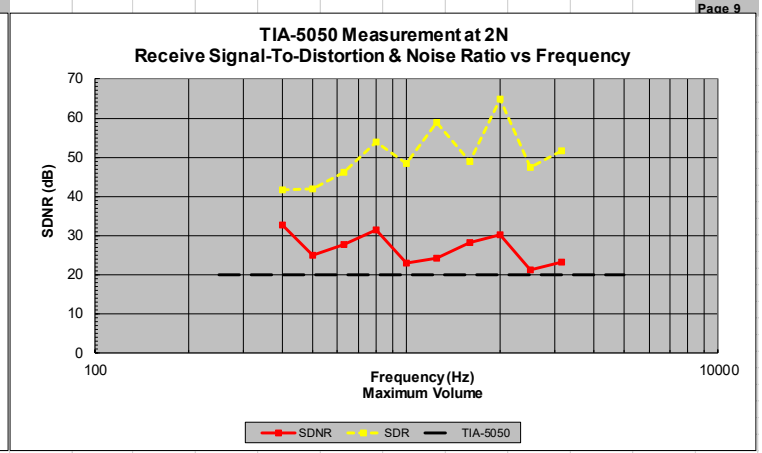
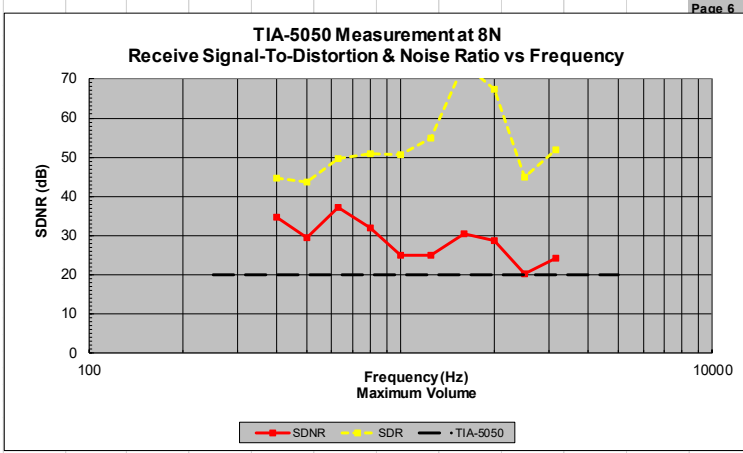
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.39 dB	info only		
	Recv conversational gain 8N	25.39 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.69 dB	info only		
	Recv conversational gain 2N	18.69 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.32 dB	Absolute Limits	PASS	

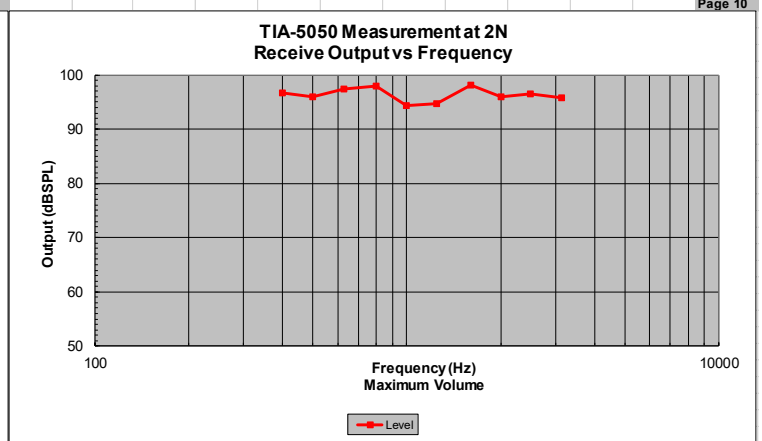
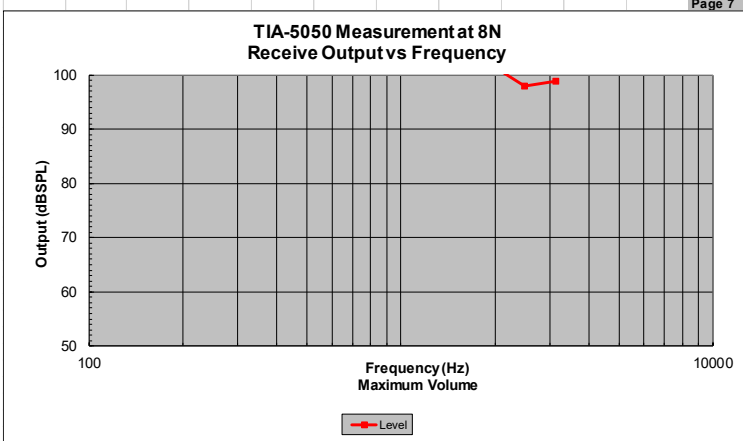
# NR n41 PC3 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



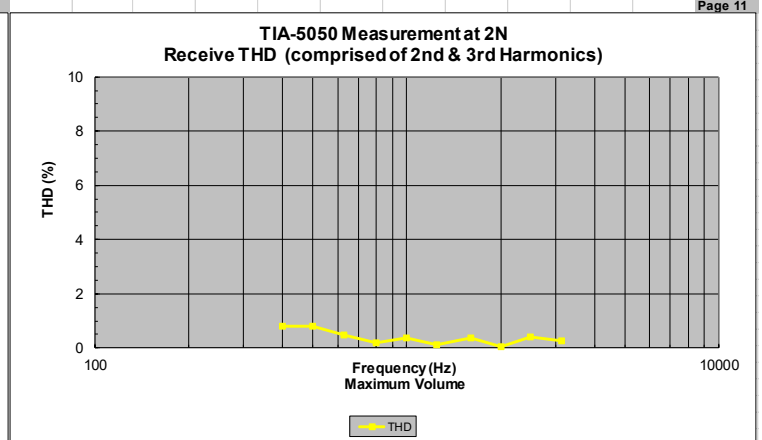
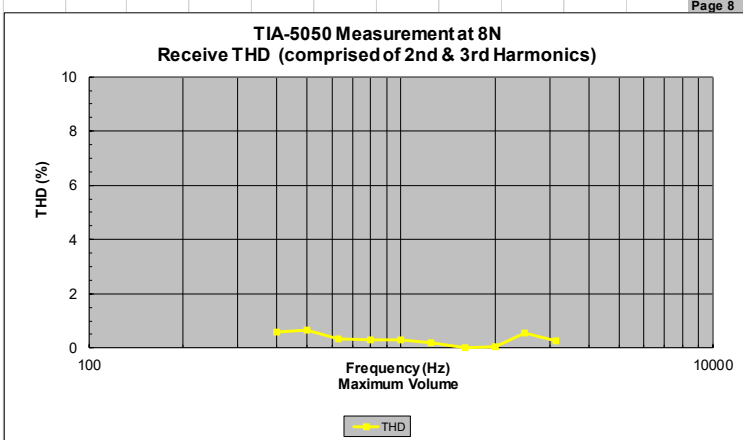
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.2 dB	Absolute Limits	PASS	7/9/2025 20:39
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.32 dB	Absolute Limits	PASS	7/9/2025 20:39
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
7/9/2025 20:39
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 20:39
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
7/9/2025 20:39
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

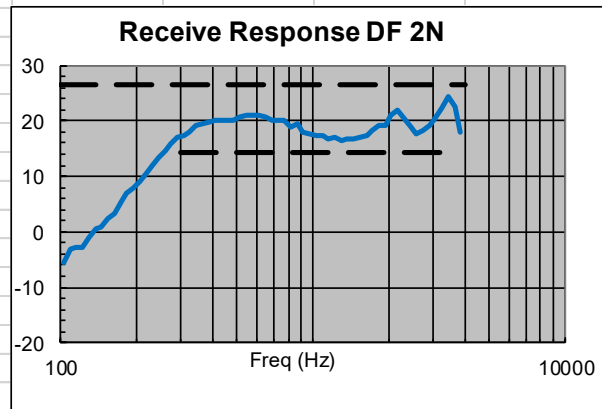
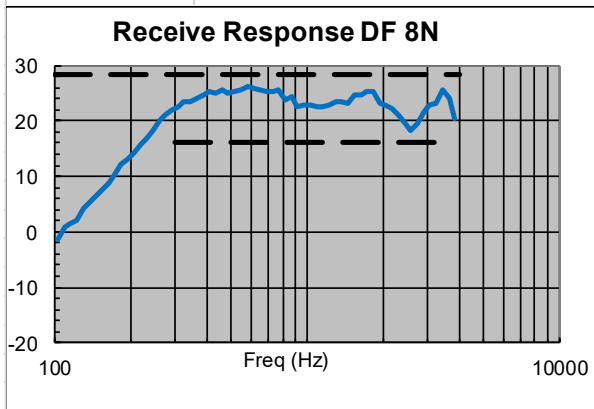
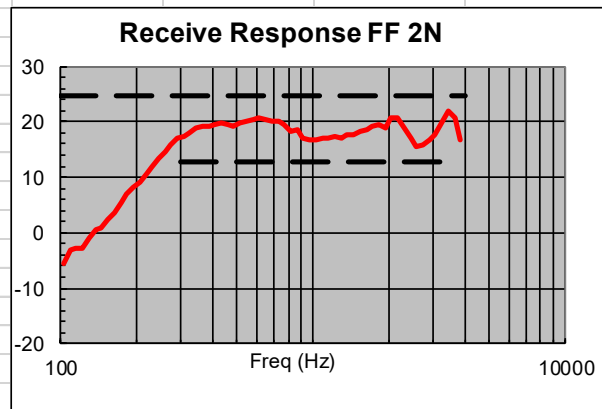
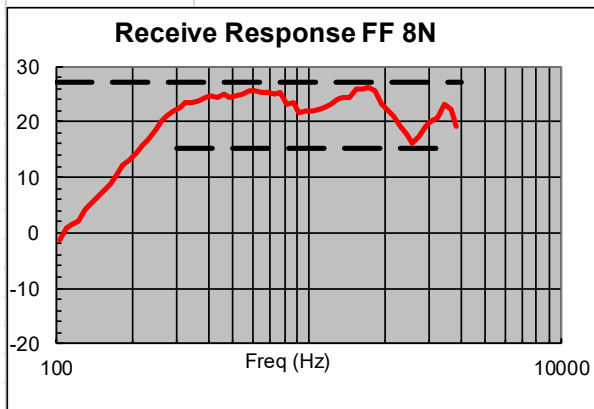
Test Date
7/9/2025 20:39
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

**NR n41 PC2 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n41 PC2 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.87 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.08 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.68 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.06 dB	Floating Limits	PASS	



**Output**

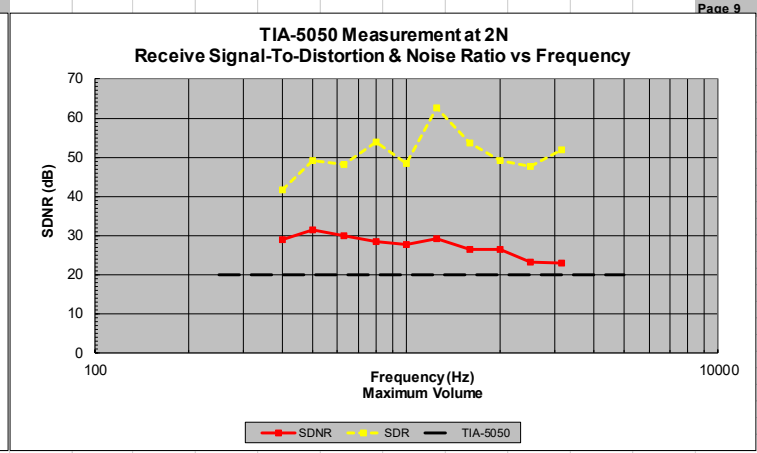
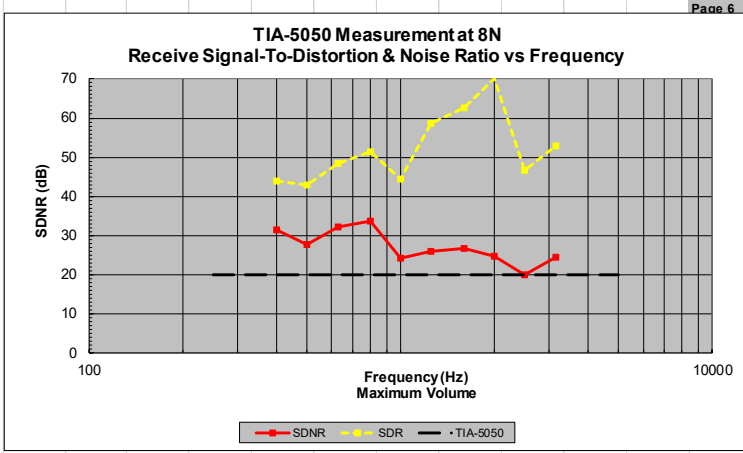
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.9 dB	info only		
	Recv conversational gain 8N	24.9 dB	18.00	PASS	
	Recv output level dB SPL 2N	89.84 dB	info only		
	Recv conversational gain 2N	19.84 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.03 dB	Absolute Limits	PASS	

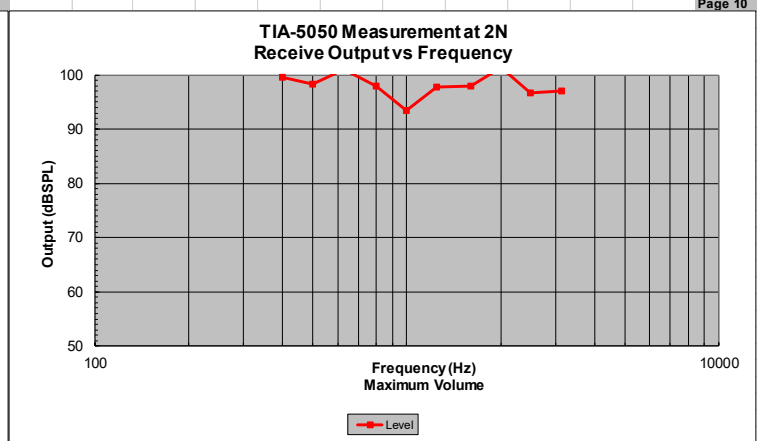
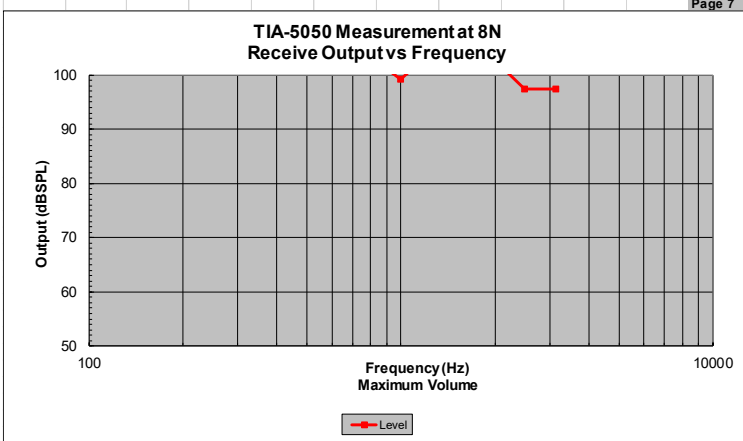
# NR n41 PC2 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



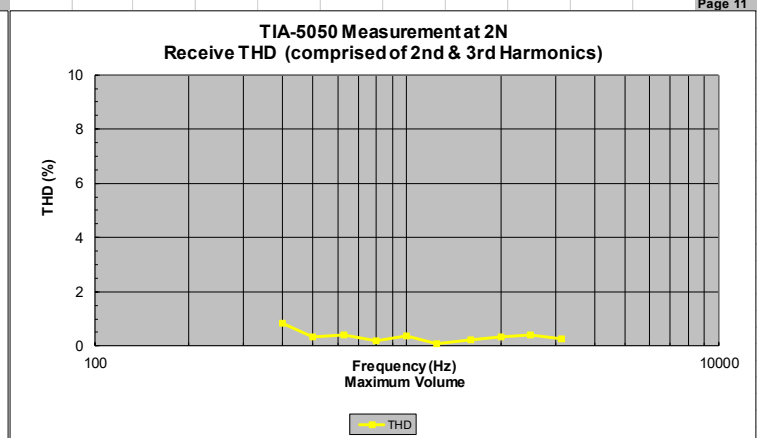
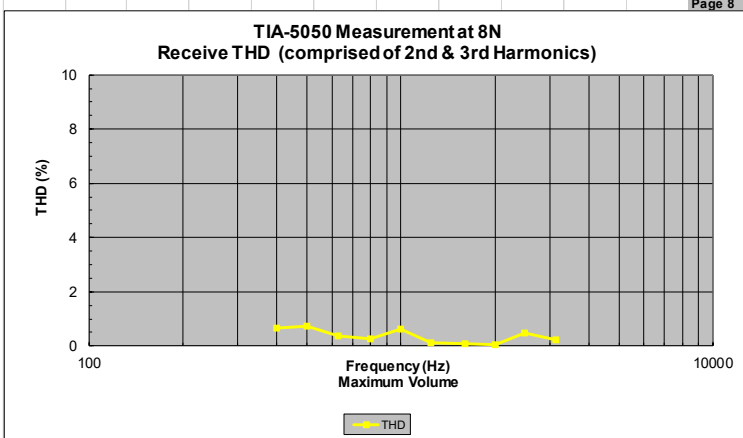
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	7/9/2025 19:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.03 dB	Absolute Limits	PASS	7/9/2025 19:41
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date	
7/9/2025 19:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 19:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 19:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 19:41	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

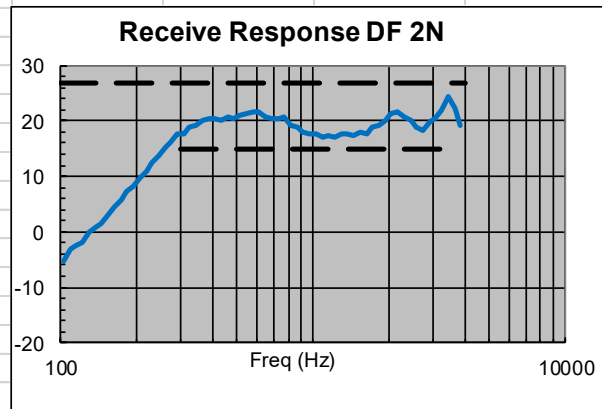
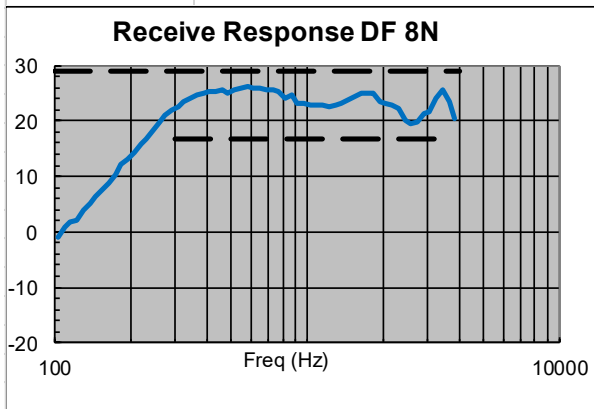
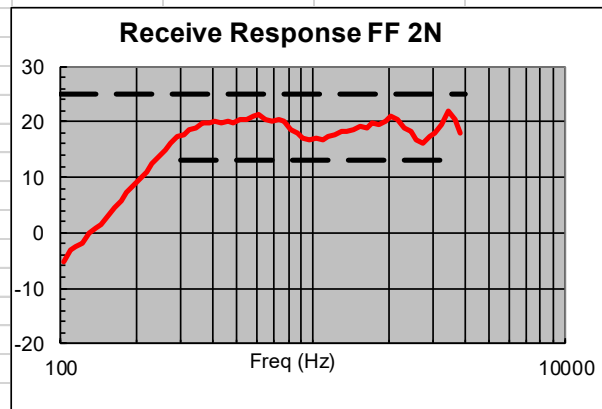
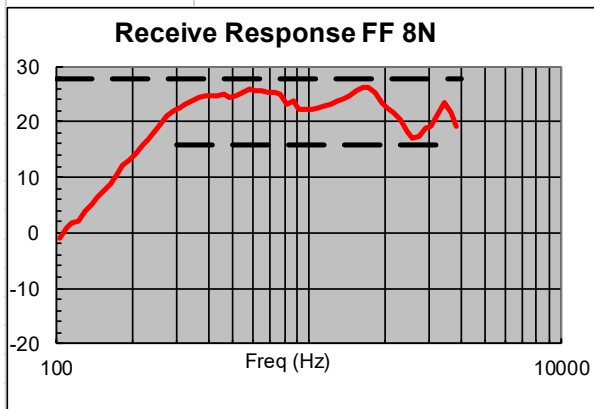


**NR n77 Block C PC3 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n77 PC3 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.42 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.53 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.99 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.35 dB	Floating Limits	PASS	



**Output**

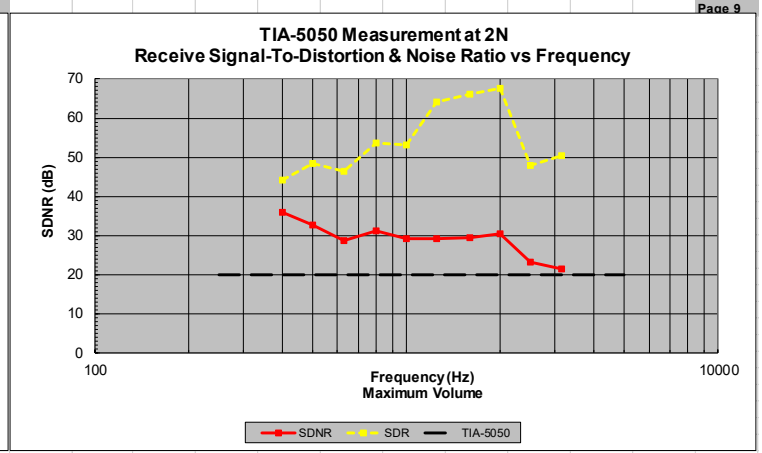
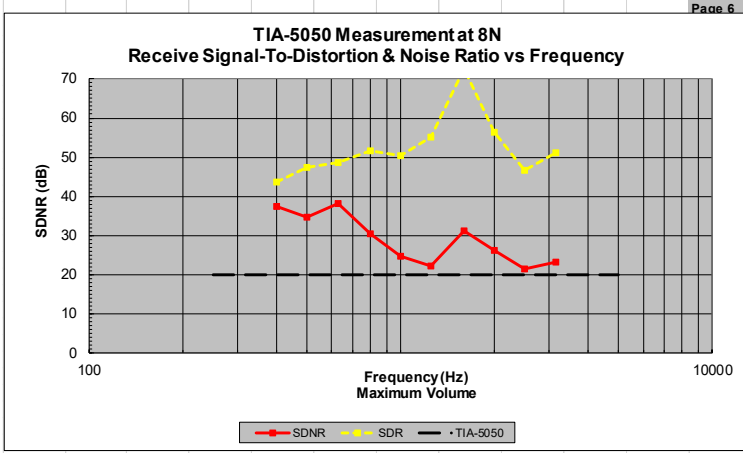
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.03 dB	info only		
	Recv conversational gain 8N	25.03 dB	18.00	PASS	
	Recv output level dBSPL 2N	90.22 dB	info only		
	Recv conversational gain 2N	20.22 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.45 dB	Absolute Limits	PASS	

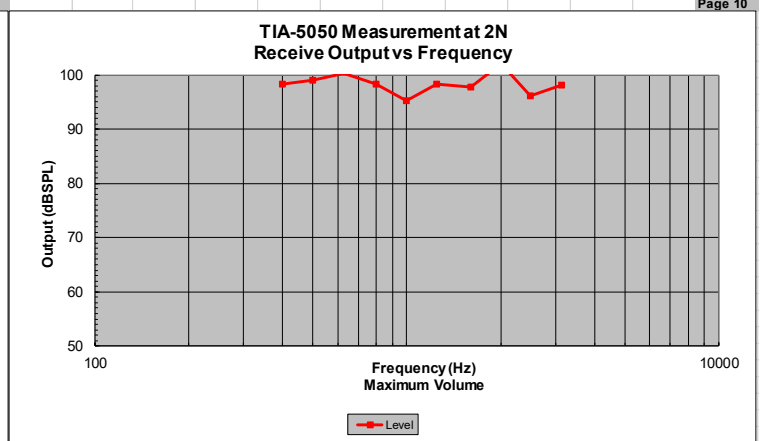
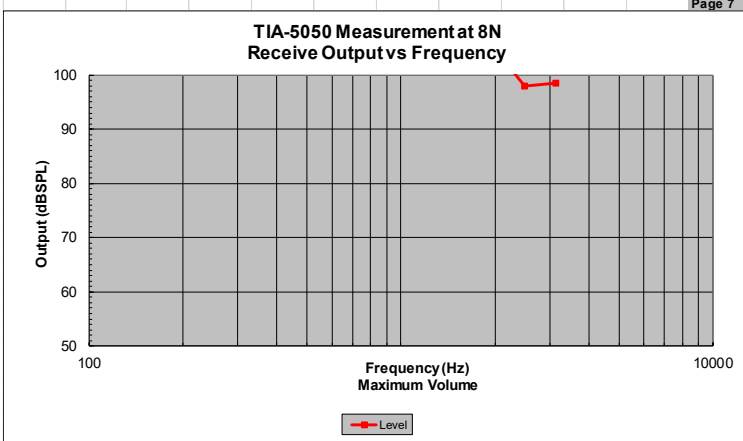
# NR n77 Block C PC3 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



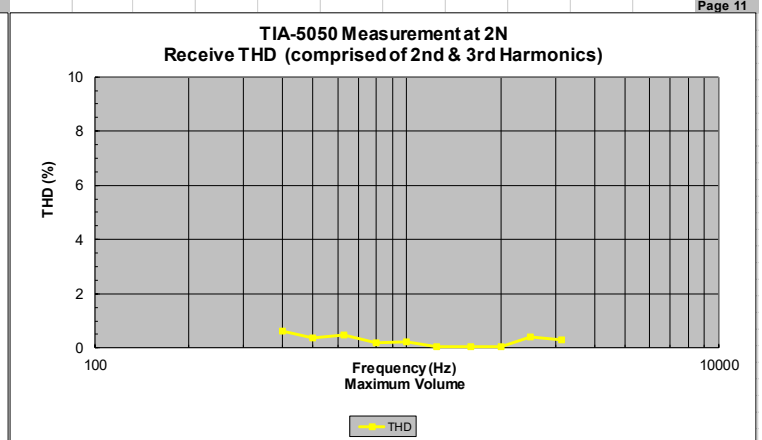
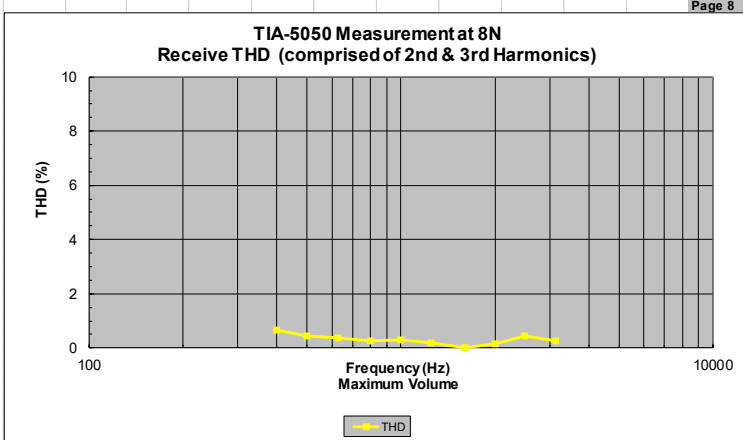
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.4 dB	Absolute Limits	PASS	7/9/2025 19:09
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.45 dB	Absolute Limits	PASS	7/9/2025 19:09
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
7/9/2025 19:09
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 19:09
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
7/9/2025 19:09
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

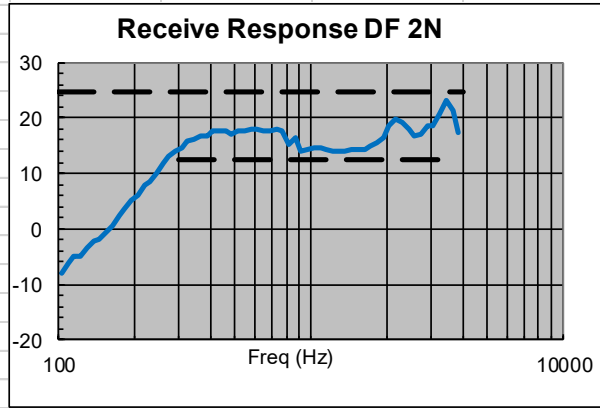
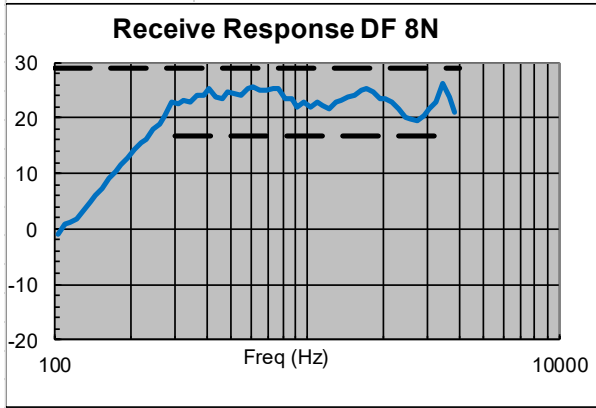
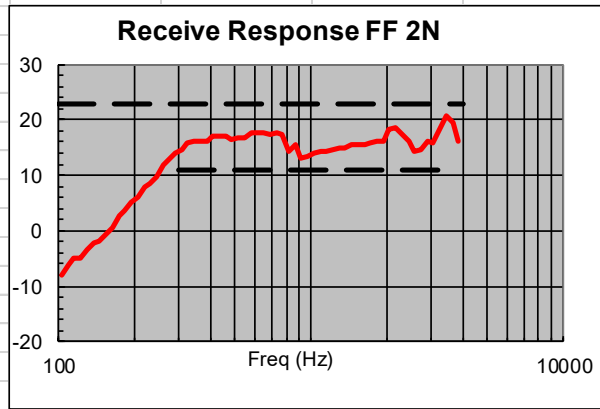
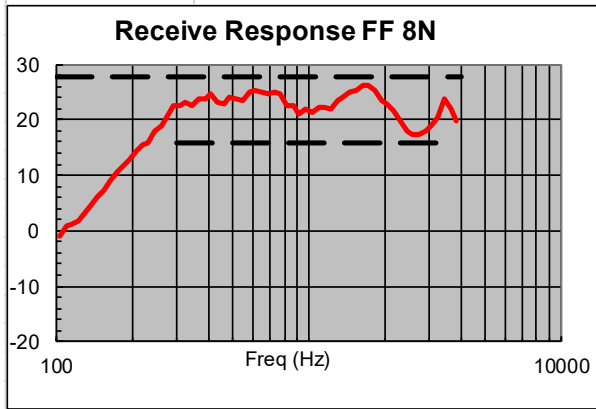
Test Date
7/9/2025 19:09
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

**NR n77 Block C PC2 EVS-NB: 9.6 kbps 1,1 RB 16QAM**  
**Conversational Gain & Frequency Response Report**  
**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	NR n77 PC2 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.48 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.69 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.18 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.46 dB	Floating Limits	PASS	



**Output**

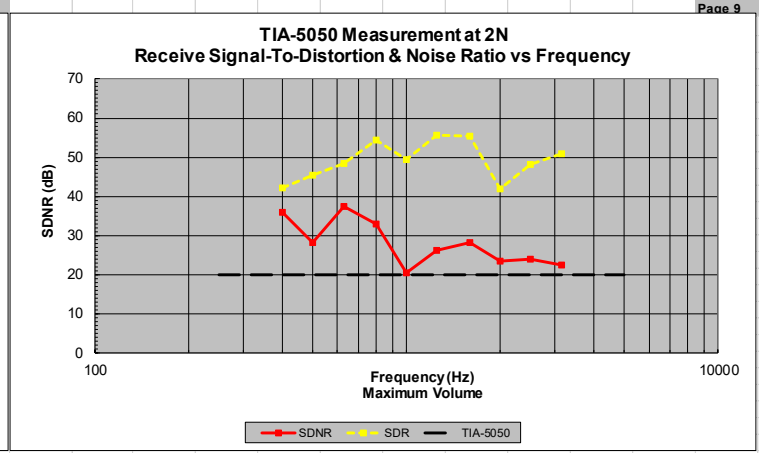
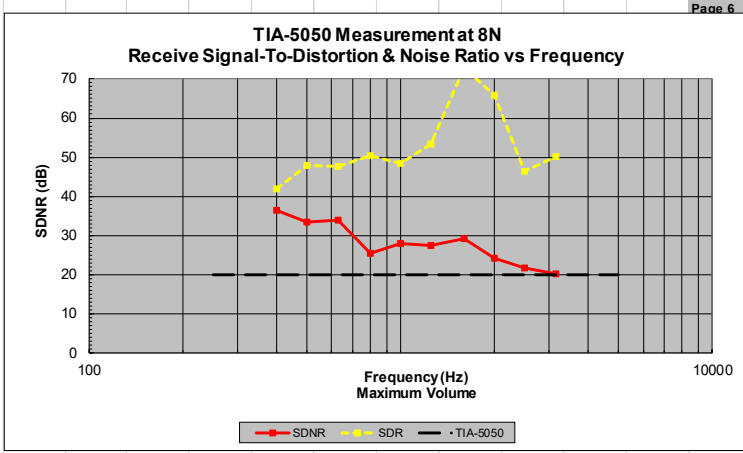
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.3 dB	info only		
	Recv conversational gain 8N	24.3 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.07 dB	info only		
	Recv conversational gain 2N	17.07 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.56 dB	Absolute Limits	PASS	

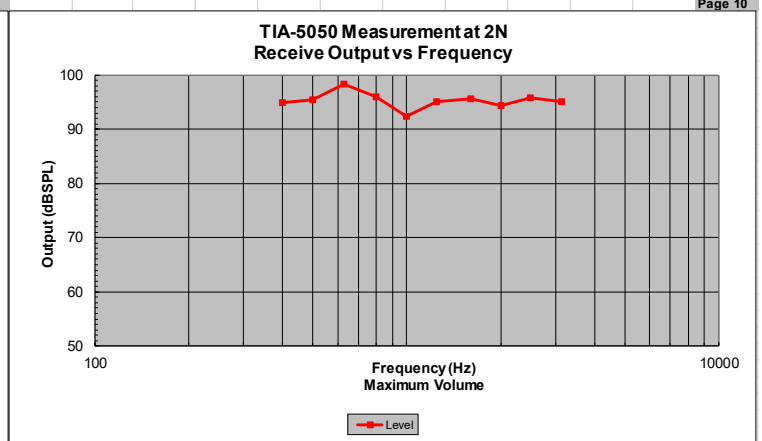
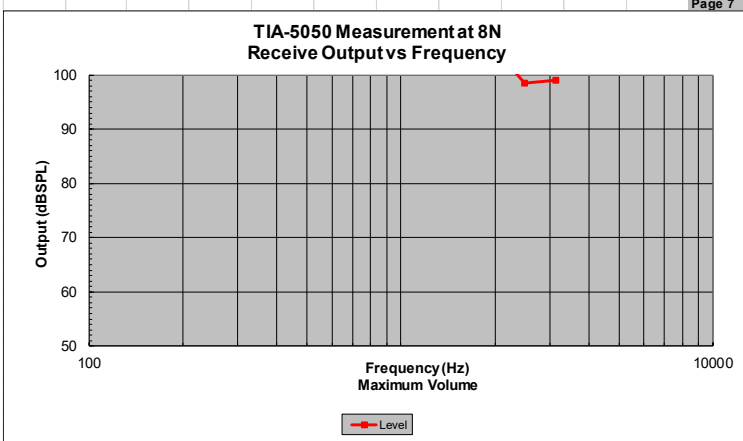
# NR n77 Block C PC2 EVS-NB: 9.6 kbps 1,1 RB 16QAM

## Distortion Report



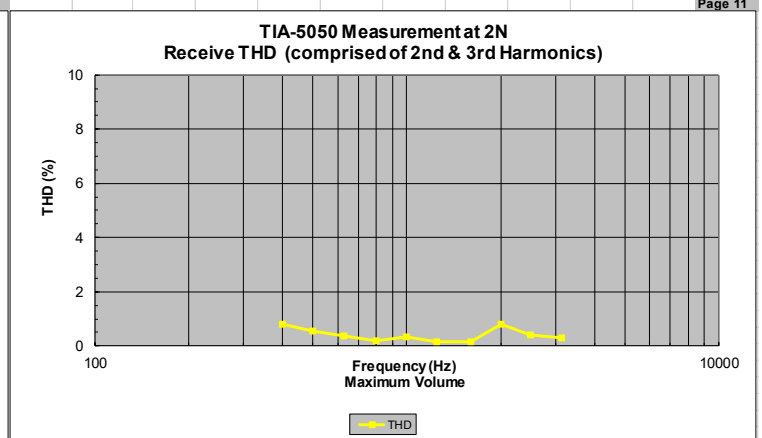
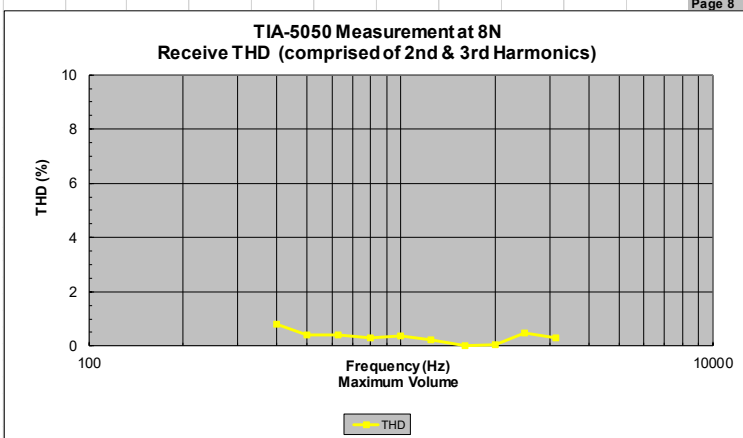
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.3 dB	Absolute Limits	PASS	7/9/2025 19:33
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.56 dB	Absolute Limits	PASS	7/9/2025 19:33
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments:	9.6 kbps			



Test Date
7/9/2025 19:33
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

Test Date
7/9/2025 19:33
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps



Test Date
7/9/2025 19:33
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

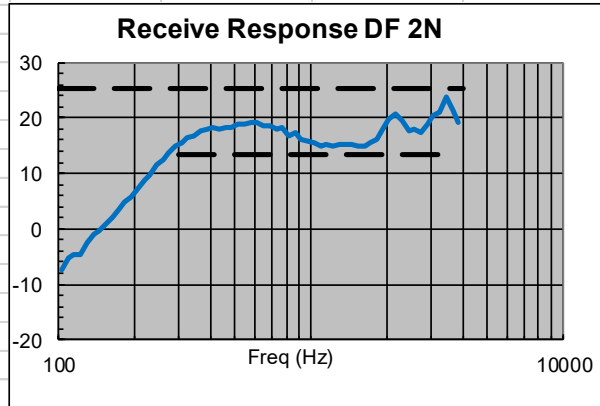
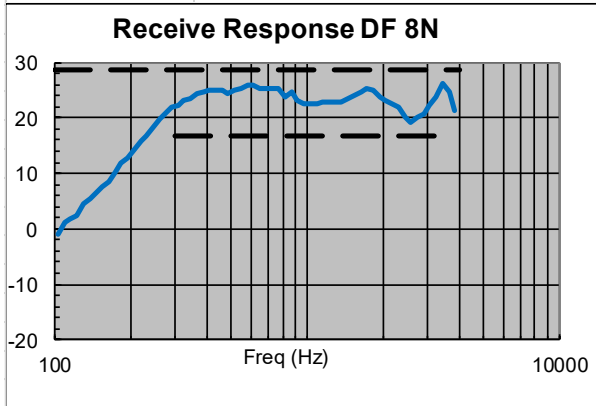
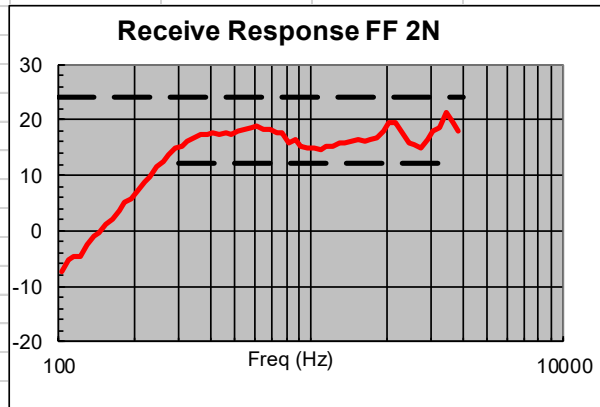
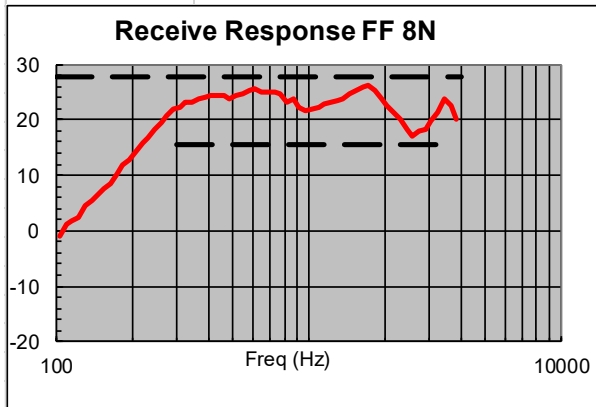
Test Date
7/9/2025 19:33
Stimulus level -20 dBPa Sentence conditioning -20 dBPa Short conditioning -99 dBPa
Comments: 9.6 kbps

**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps DSSS 1 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11b DSSS 1 Mbps EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.37 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.5 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.65 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.57 dB	Floating Limits	PASS	



**Output**

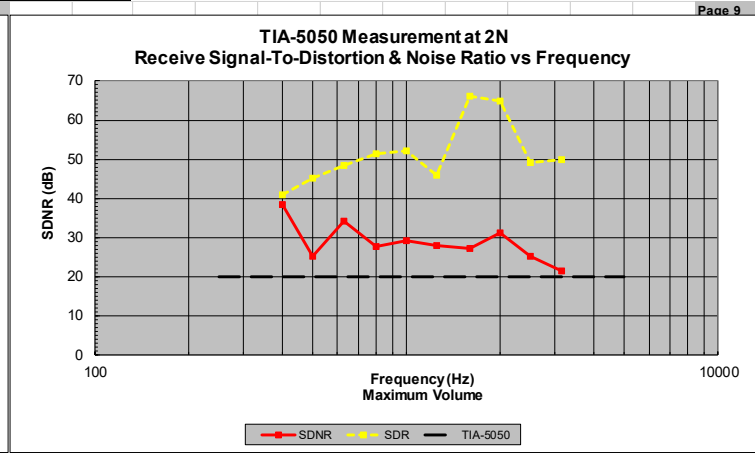
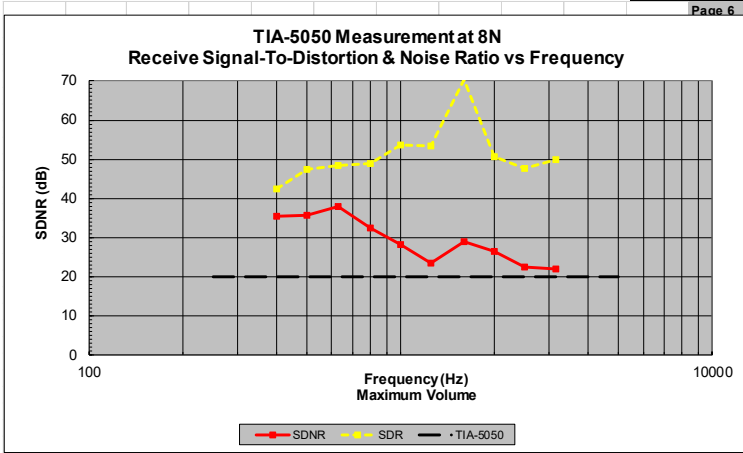
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	94.68 dB	info only		
	Recv conversational gain 8N	24.68 dB	18.00	PASS	
	Recv output level dBSPL 2N	87.94 dB	info only		
	Recv conversational gain 2N	17.94 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.45 dB	Absolute Limits	PASS	

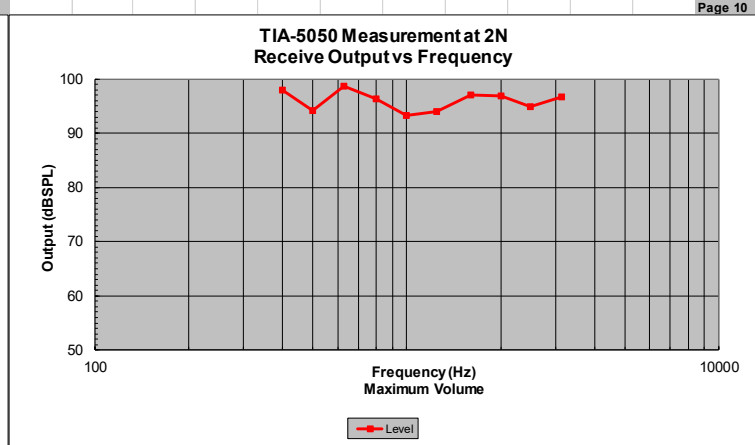
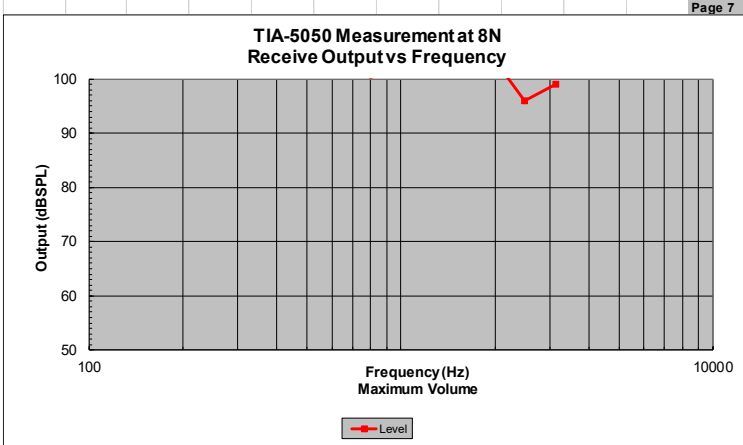
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps DSSS 1 Mbps

## Distortion Report



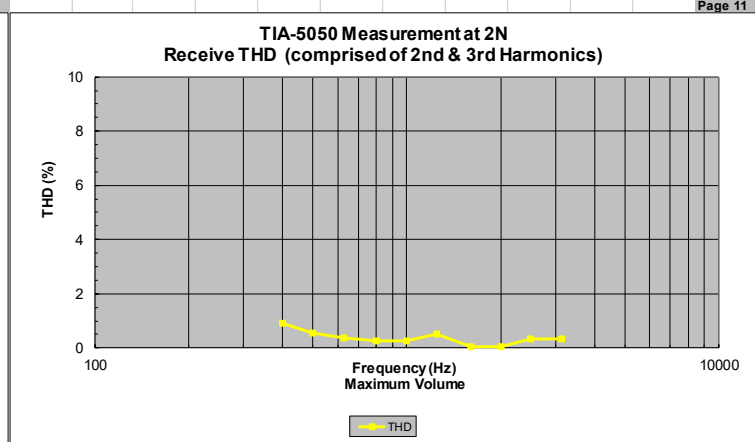
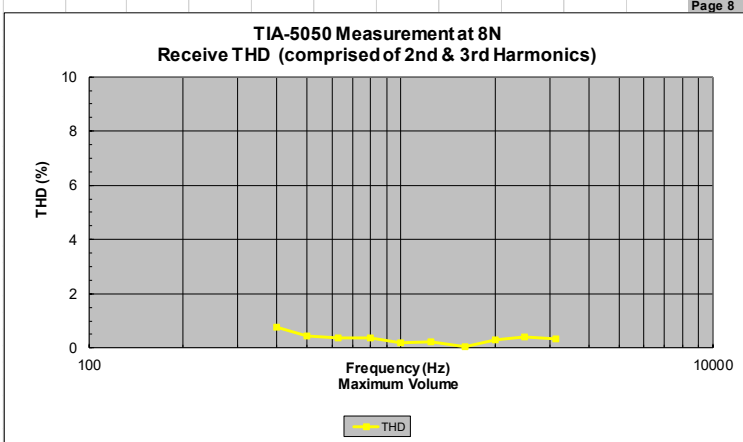
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	7/9/2025 7:50
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.45 dB	Absolute Limits	PASS	7/9/2025 7:50
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date	
7/9/2025 7:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 7:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 7:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 7:50	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

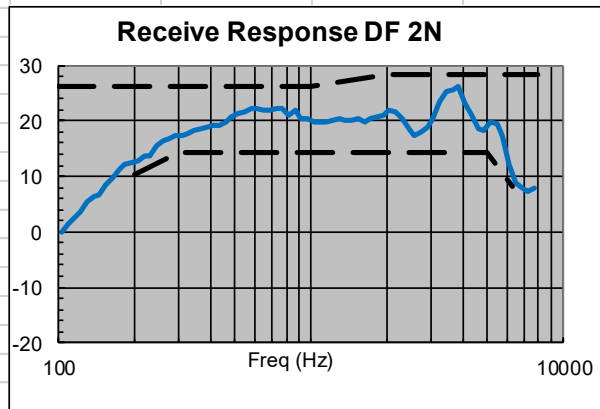
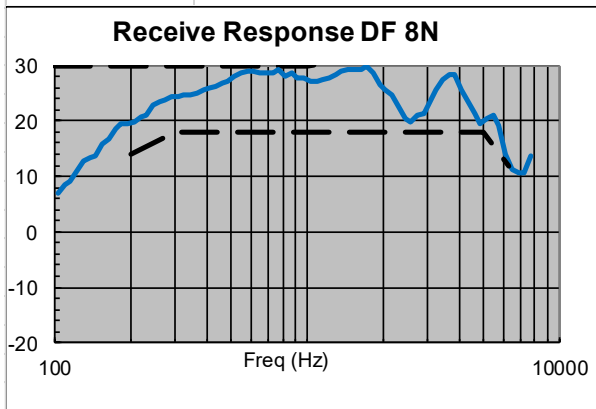
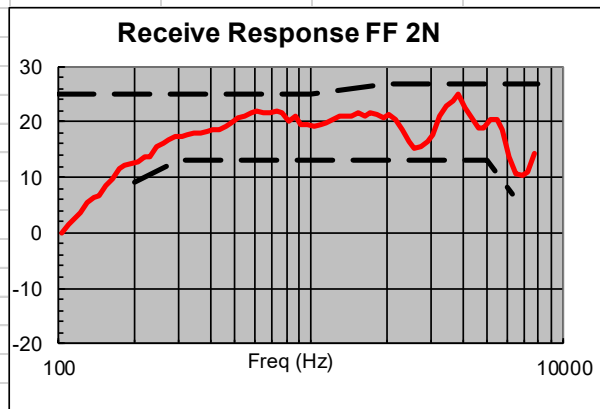
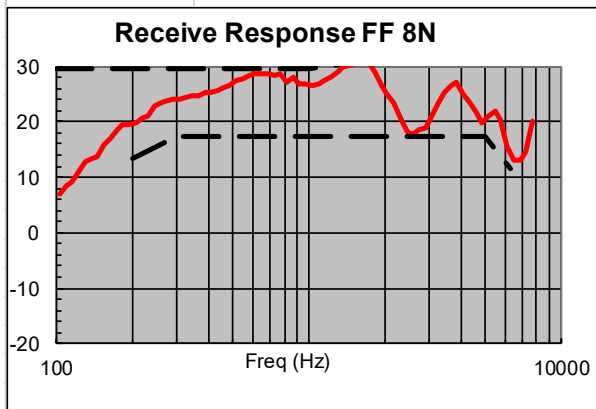
**Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps DSSS 1 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11b DSSS 1 Mbps EVS-WB
<b>Bandwidth</b>	Wideband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.11 dB	Floating Limits	PASS	
	Recv resp DF 8N	0.7 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.13 dB	Floating Limits	PASS	
	Recv resp DF 2N	2.2 dB	Floating Limits	PASS	



**Output**

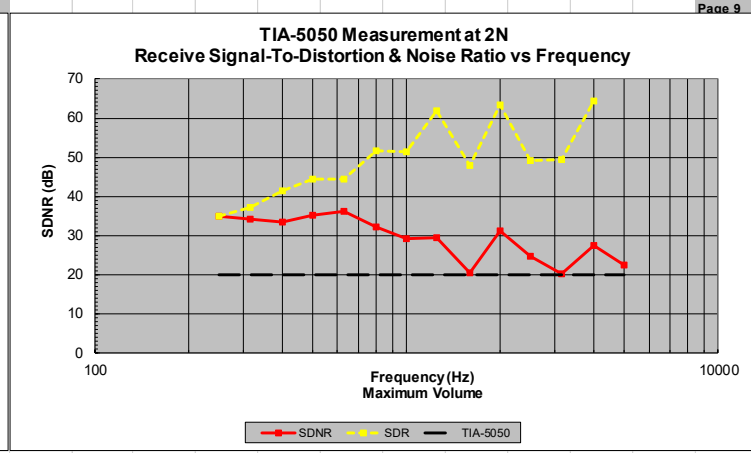
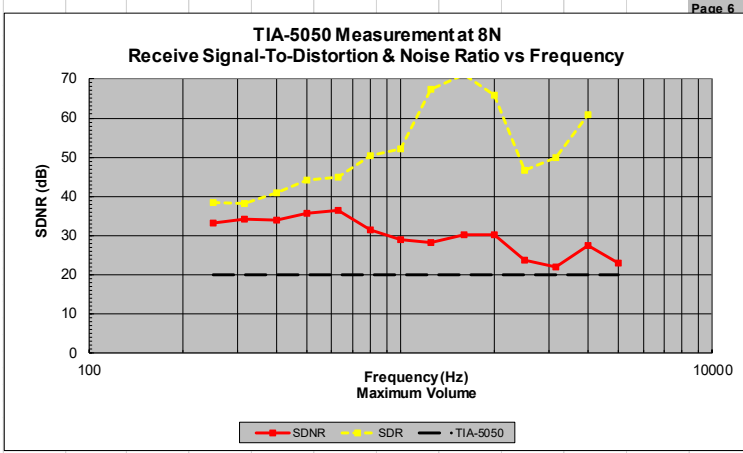
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	97.75 dB	info only		
	Recv conversational gain 8N	27.75 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.81 dB	info only		
	Recv conversational gain 2N	20.81 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.28 dB	Absolute Limits	PASS	

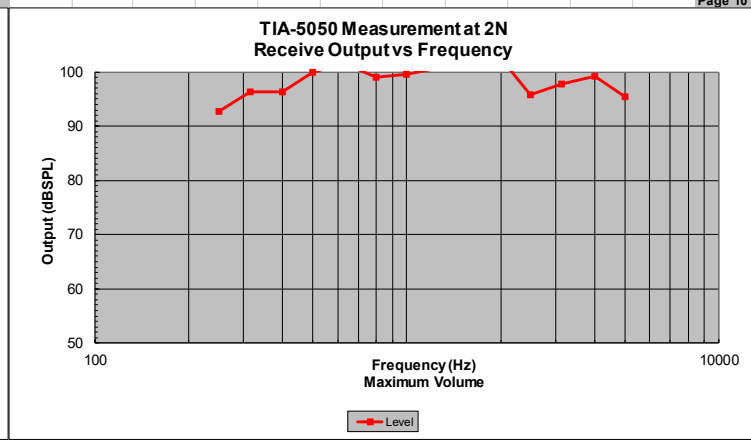
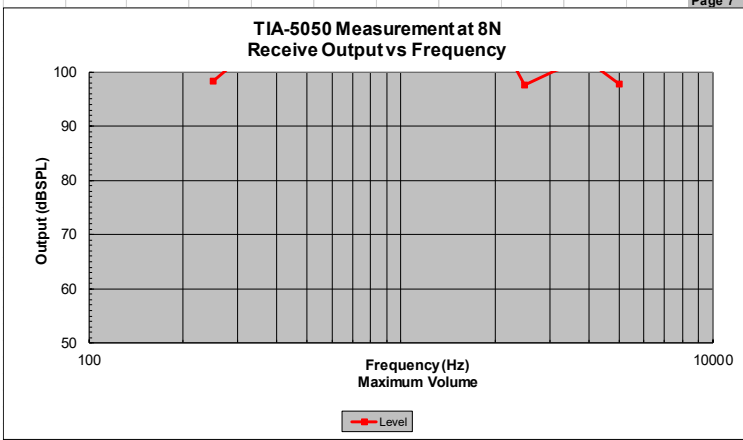
# Wi-Fi 2.4 GHz EVS-WB: 24.4 kbps DSSS 1 Mbps

## Distortion Report



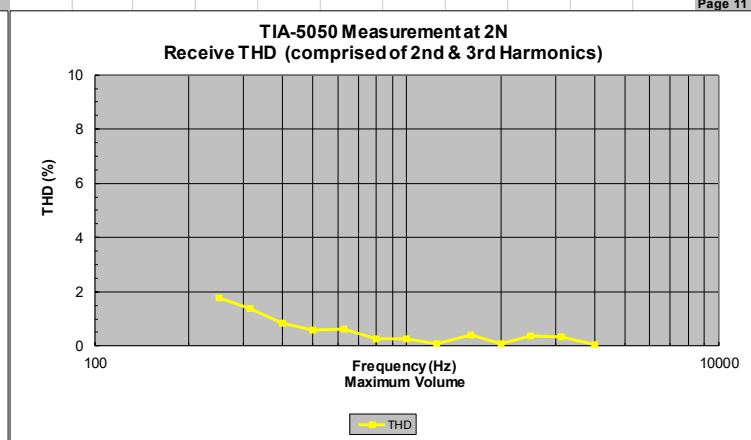
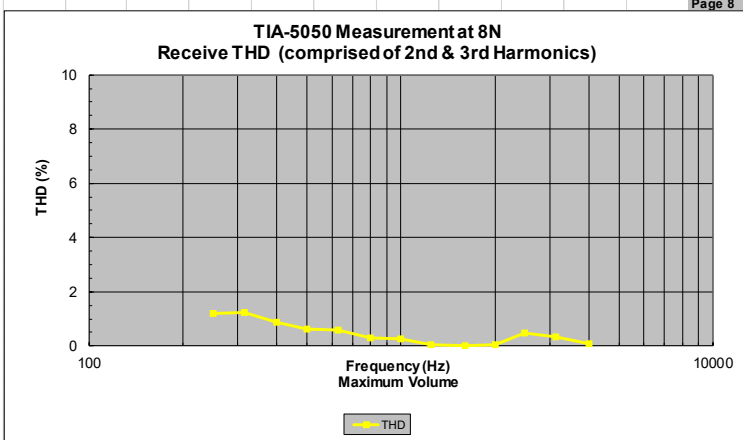
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	7/9/2025 8:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.28 dB	Absolute Limits	PASS	7/9/2025 8:13
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	24.4 kbps			



Test Date	
7/9/2025 8:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
7/9/2025 8:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



Test Date	
7/9/2025 8:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps

Test Date	
7/9/2025 8:13	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	24.4 kbps



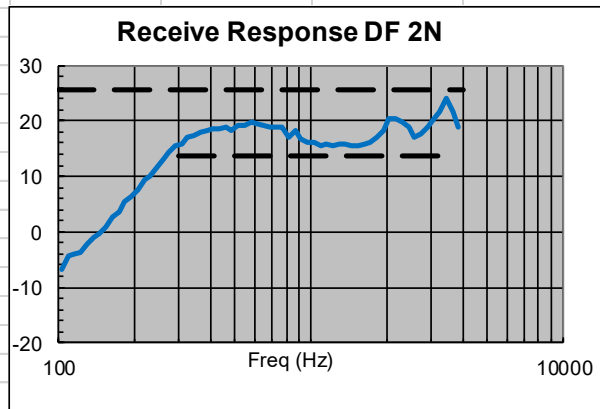
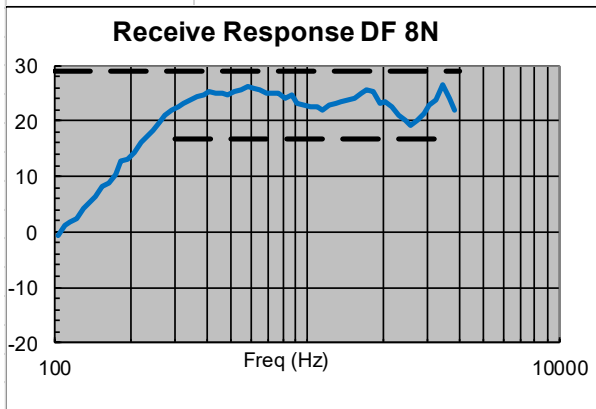
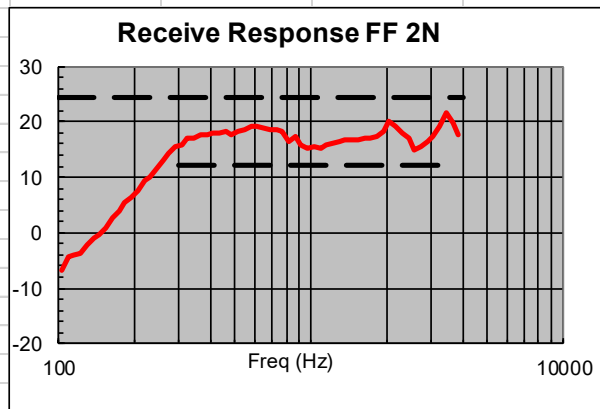
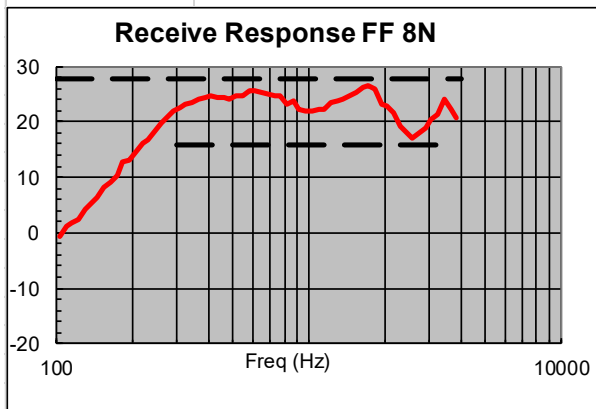
**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 5.5 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11b CCK 5.5 Mbps EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.23 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.4 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.58 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.74 dB	Floating Limits	PASS	



**Output**

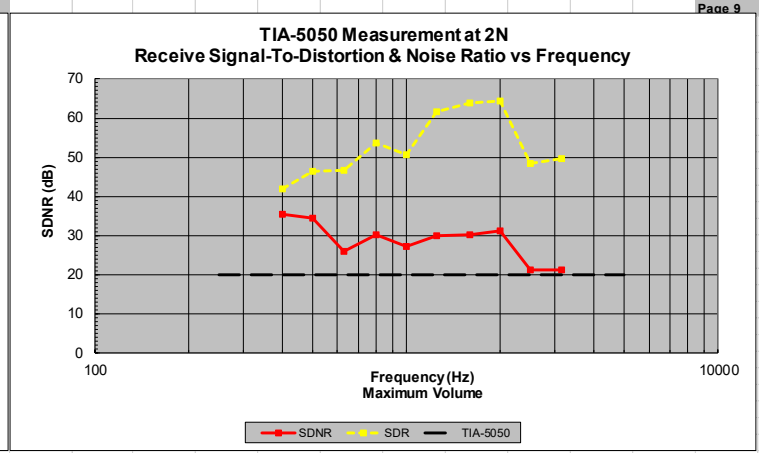
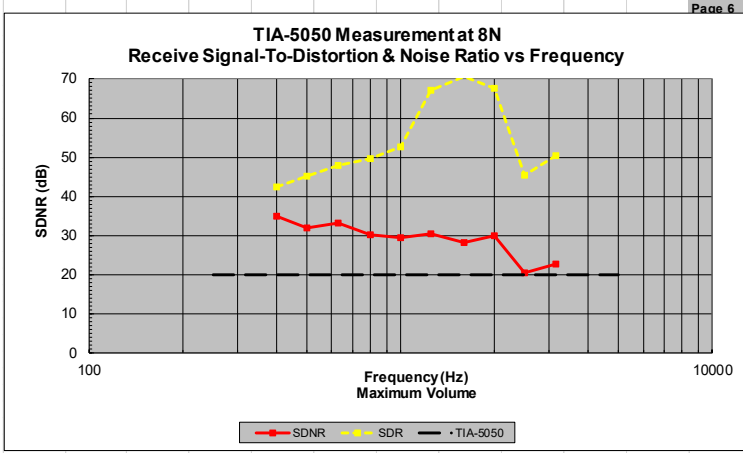
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.8 dB	info only		
	Recv conversational gain 8N	24.8 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.41 dB	info only		
	Recv conversational gain 2N	18.41 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.16 dB	Absolute Limits	PASS	

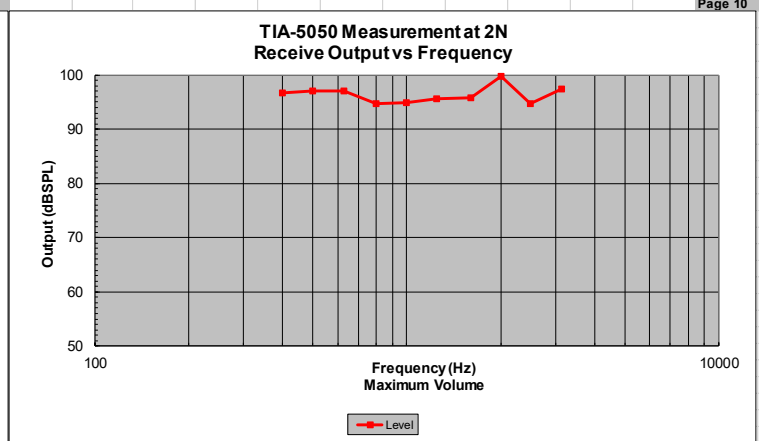
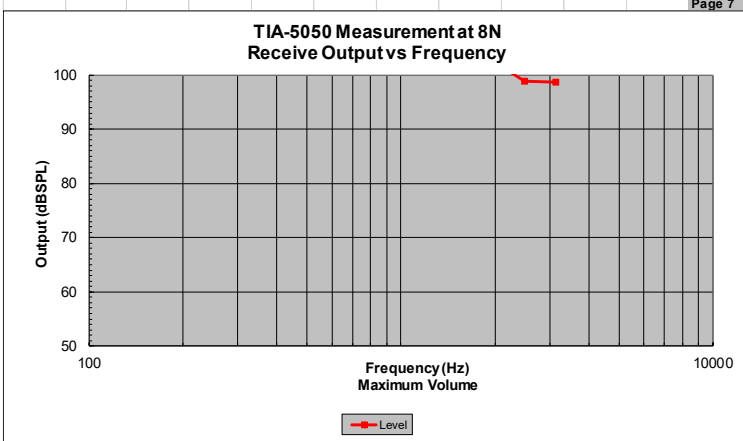
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 5.5 Mbps

## Distortion Report



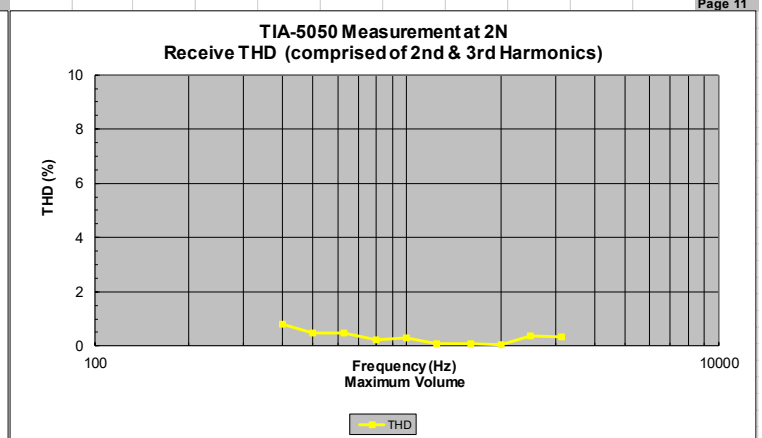
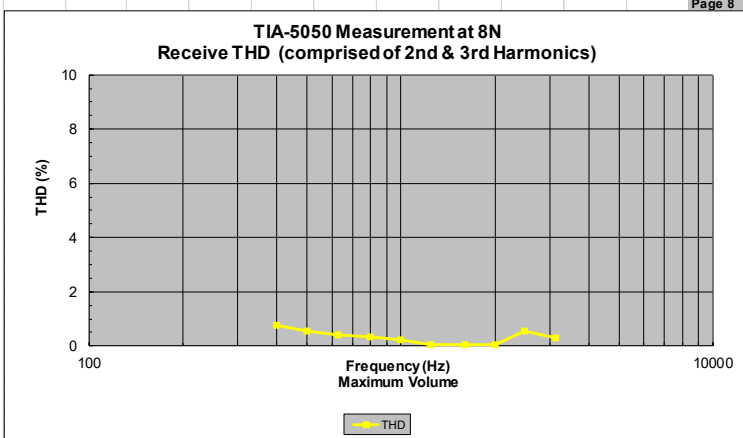
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.6 dB	Absolute Limits	PASS	7/9/2025 8:21
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.16 dB	Absolute Limits	PASS	7/9/2025 8:21
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 8:21	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 8:21	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 8:21	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

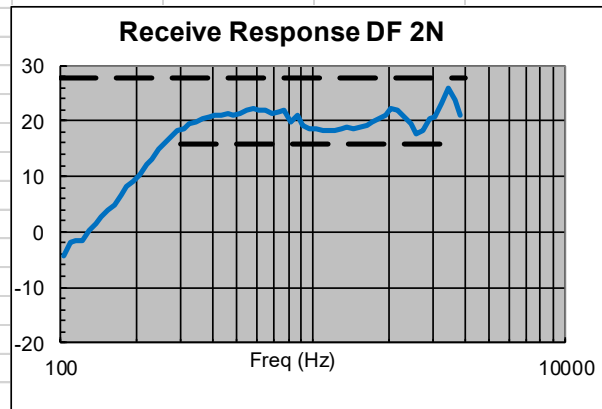
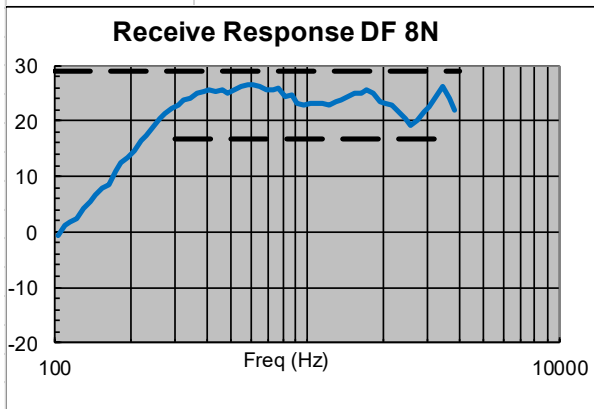
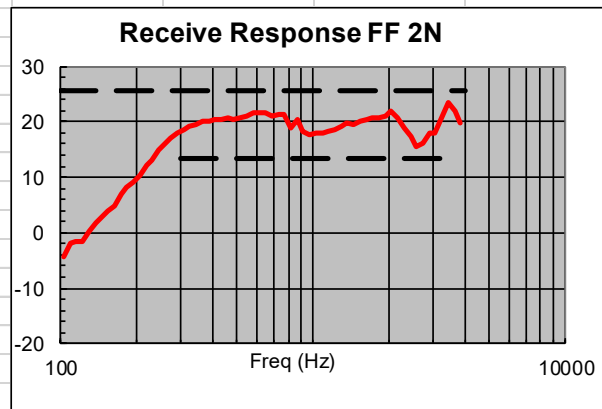
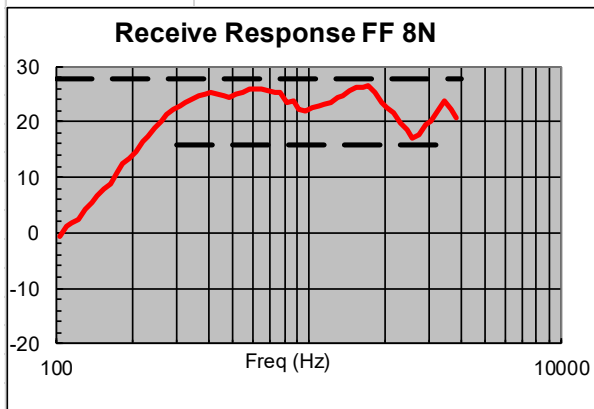
Test Date	
7/9/2025 8:21	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 11 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11b CCK 11 Mbps EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.26 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.42 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.01 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.97 dB	Floating Limits	PASS	



**Output**

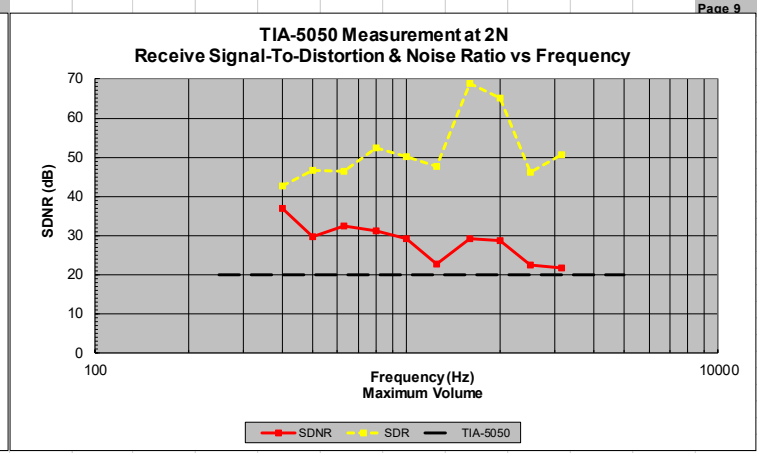
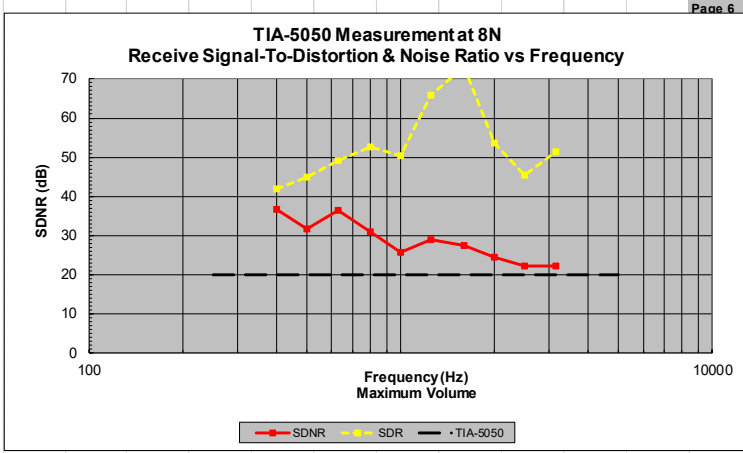
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.25 dB	info only		
	Recv conversational gain 8N	25.25 dB	18.00	PASS	
	Recv output level dB SPL 2N	90.93 dB	info only		
	Recv conversational gain 2N	20.93 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.83 dB	Absolute Limits	PASS	

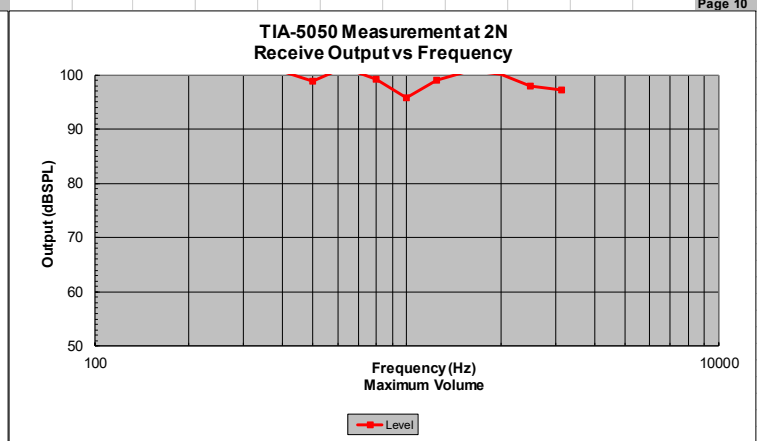
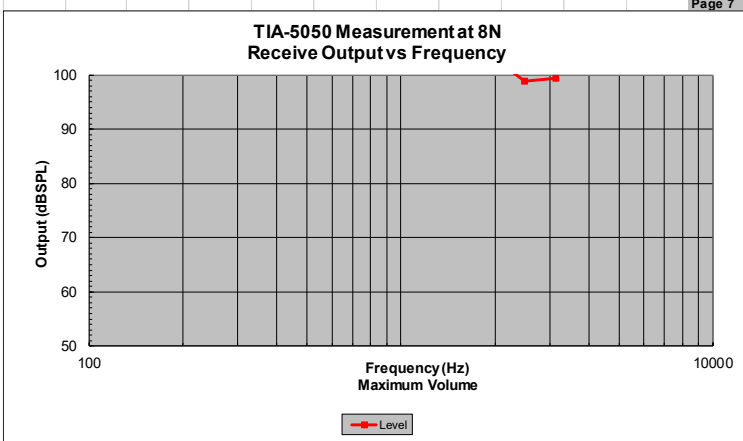
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps CCK 11 Mbps

## Distortion Report



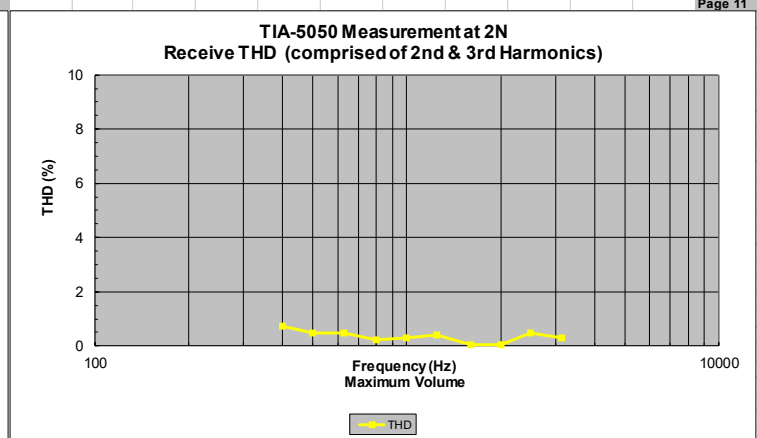
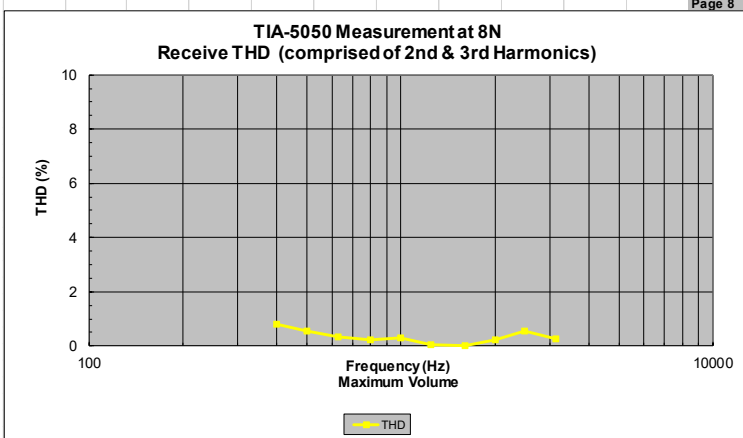
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.1 dB	Absolute Limits	PASS	7/9/2025 8:28
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.83 dB	Absolute Limits	PASS	7/9/2025 8:28
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date	
7/9/2025 8:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 8:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 8:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 8:28	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

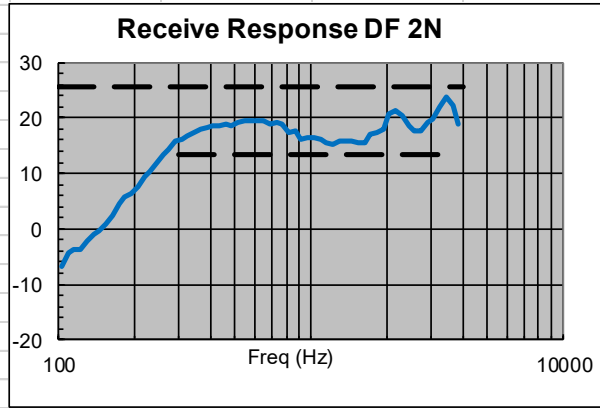
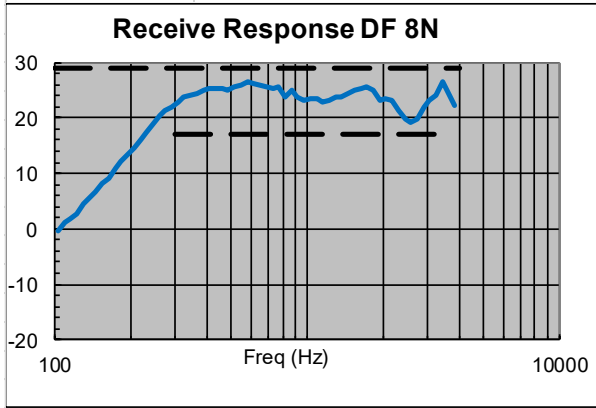
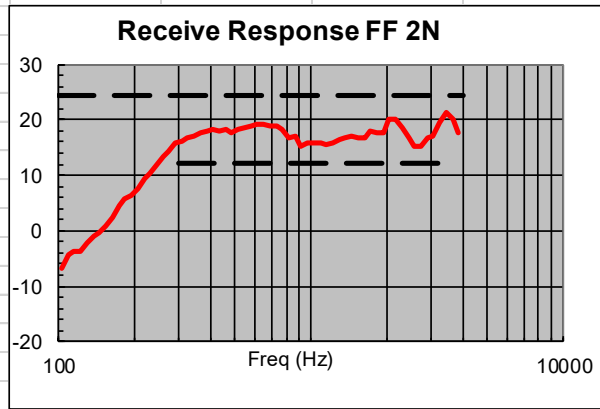
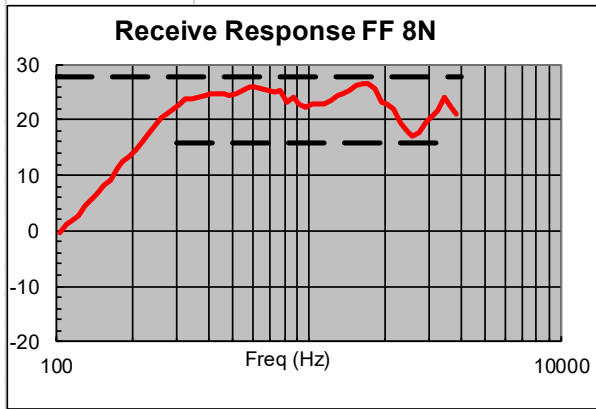
**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps BPSK 6 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11g BPSK 6 Mbps EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.2 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.38 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.93 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.83 dB	Floating Limits	PASS	



**Output**

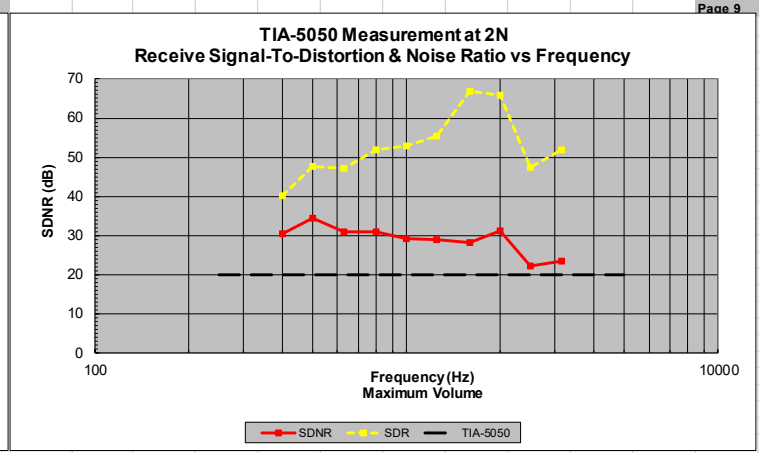
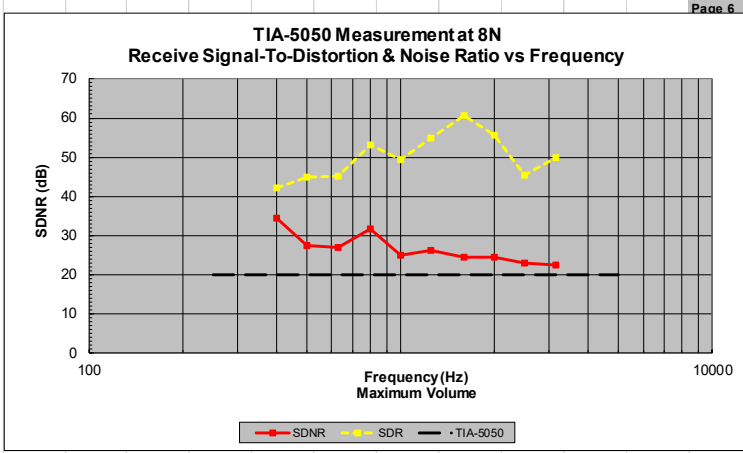
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.13 dB	info only		
	Recv conversational gain 8N	25.13 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.49 dB	info only		
	Recv conversational gain 2N	18.49 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.5 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.28 dB	Absolute Limits	PASS	

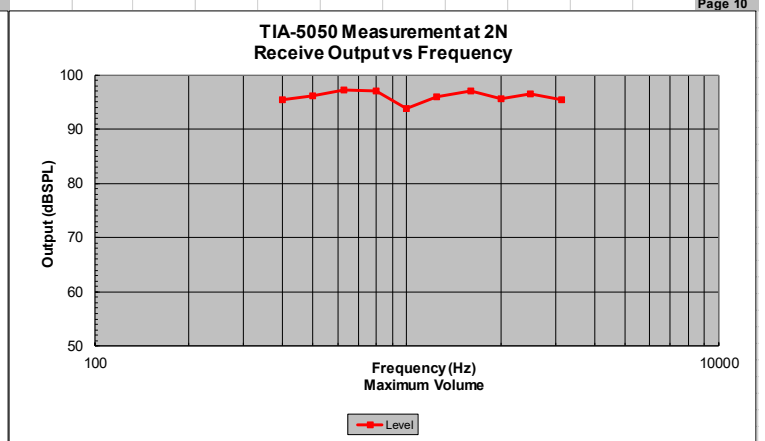
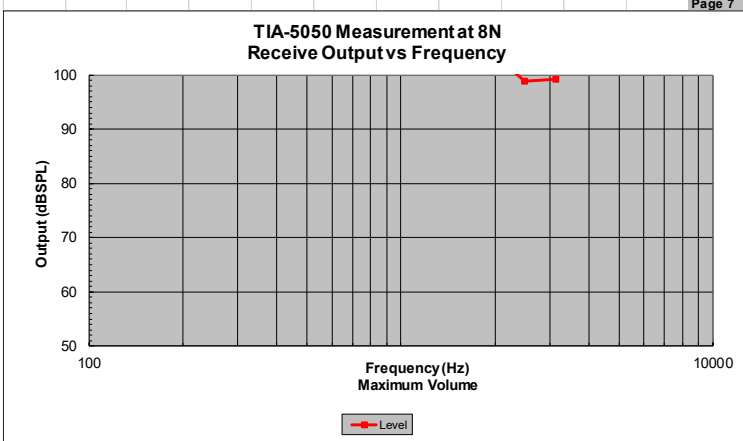
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps BPSK 6 Mbps

## Distortion Report



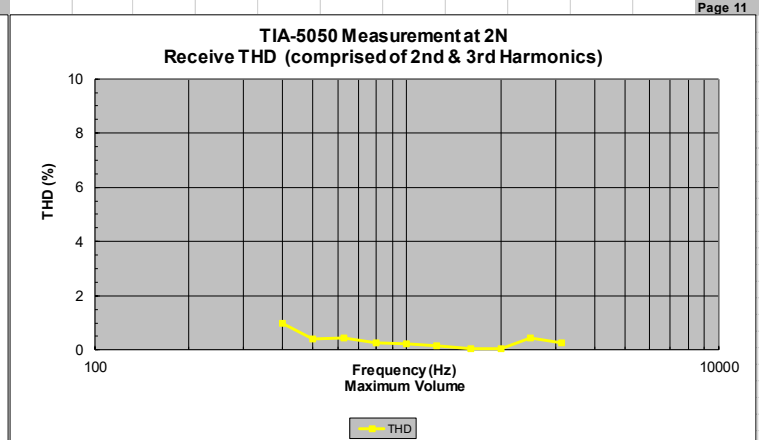
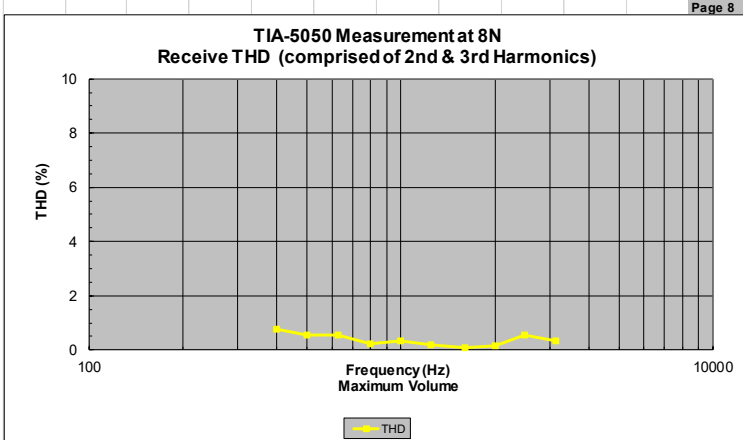
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.5 dB	Absolute Limits	PASS	7/9/2025 8:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.28 dB	Absolute Limits	PASS	7/9/2025 8:38
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date		
7/9/2025 8:38		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 8:38		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	



Test Date		
7/9/2025 8:38		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 8:38		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

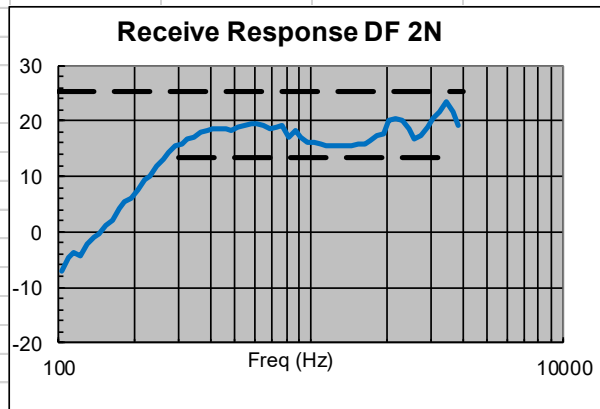
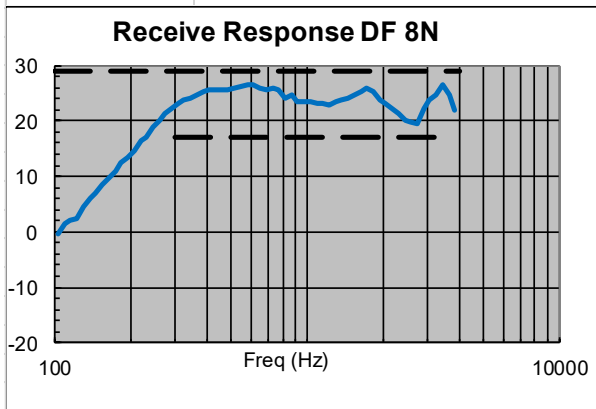
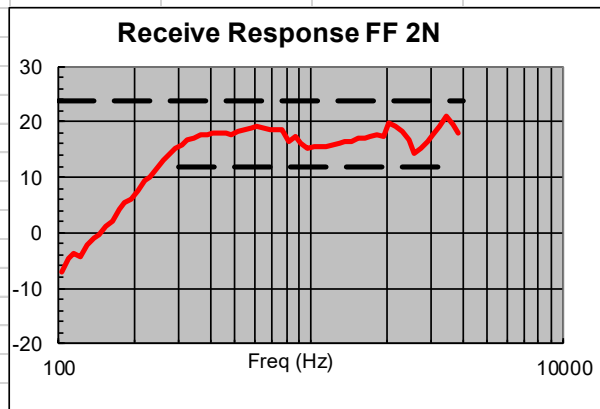
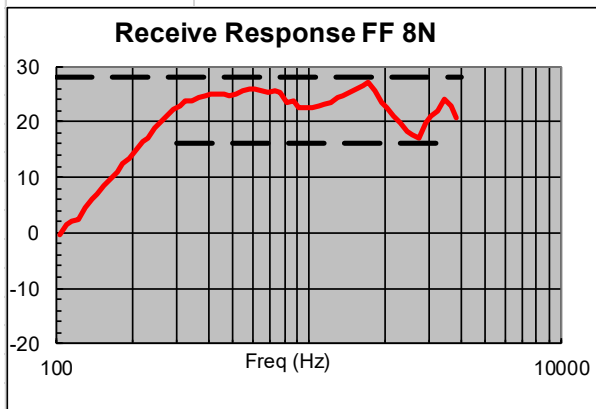
**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps MCS0 6.5 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11n MCS0 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.09 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.46 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.65 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.96 dB	Floating Limits	PASS	



**Output**

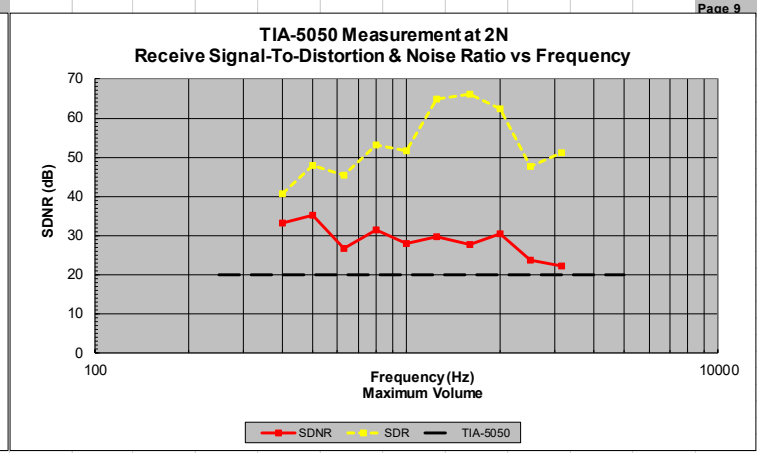
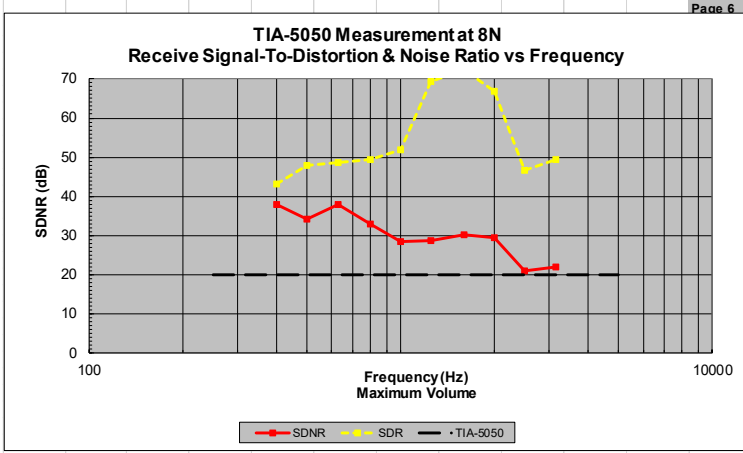
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.31 dB	info only		
	Recv conversational gain 8N	25.31 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.3 dB	info only		
	Recv conversational gain 2N	18.3 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.11 dB	Absolute Limits	PASS	

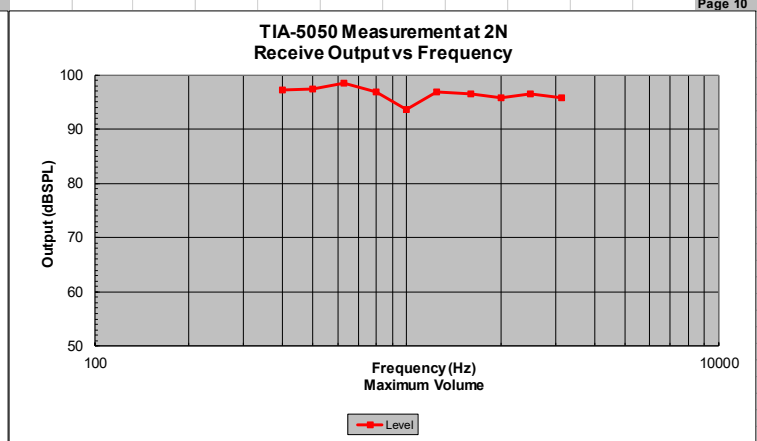
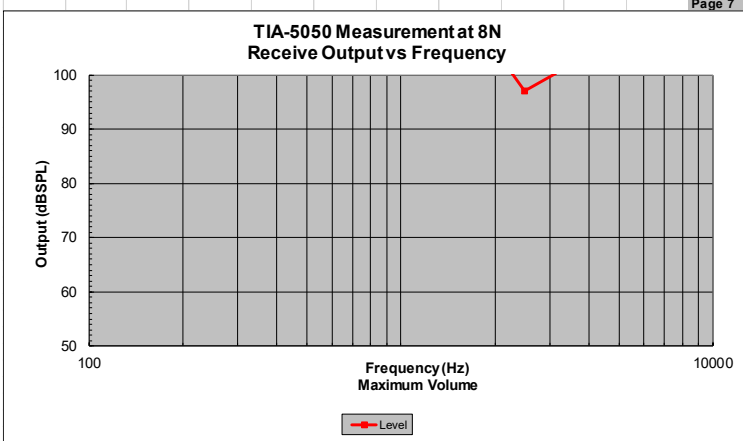
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps MCS0 6.5 Mbps

## Distortion Report



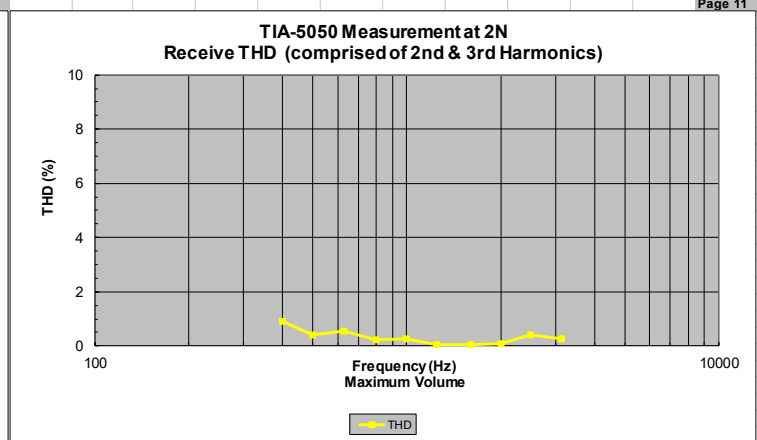
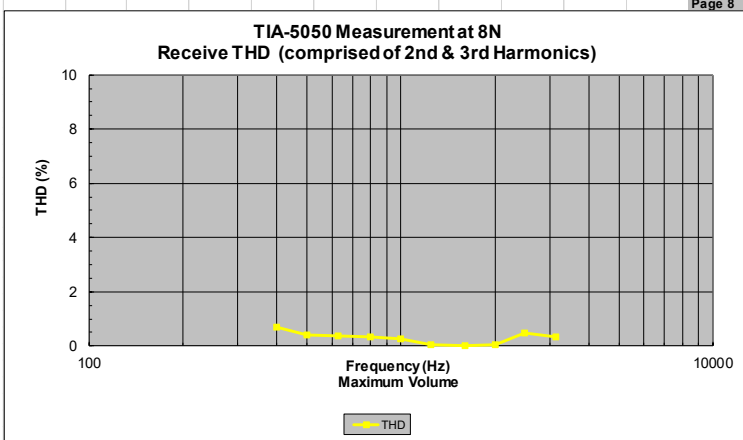
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.1 dB	Absolute Limits	PASS	7/9/2025 9:14
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.11 dB	Absolute Limits	PASS	7/9/2025 9:14
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
7/9/2025 9:14
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 9:14
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
7/9/2025 9:14
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 9:14
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



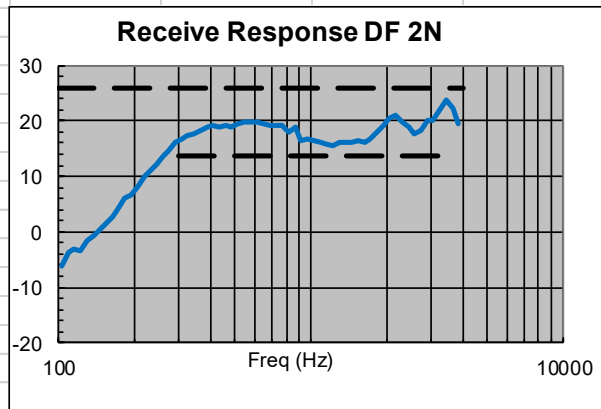
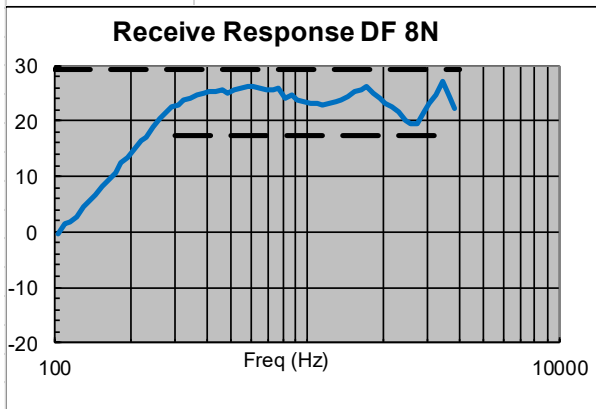
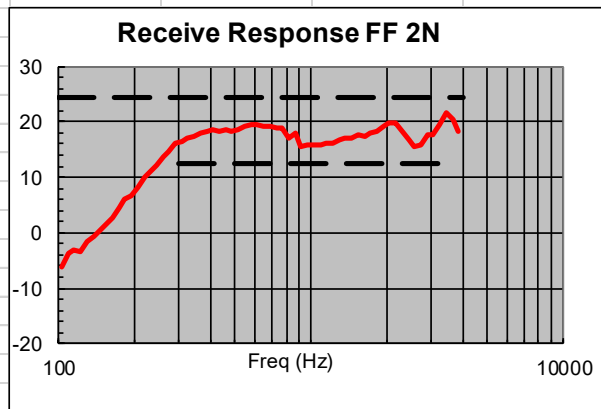
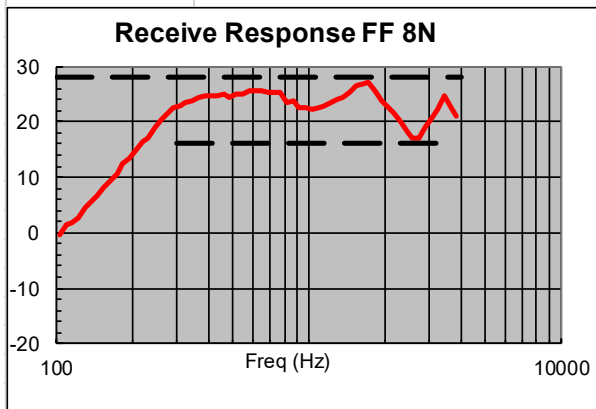
**Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps MCS 86 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ax MCS0 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.05 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.19 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.93 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.91 dB	Floating Limits	PASS	



**Output**

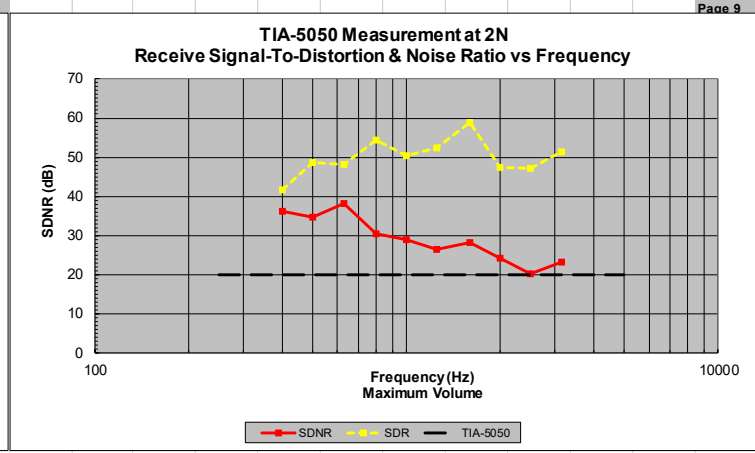
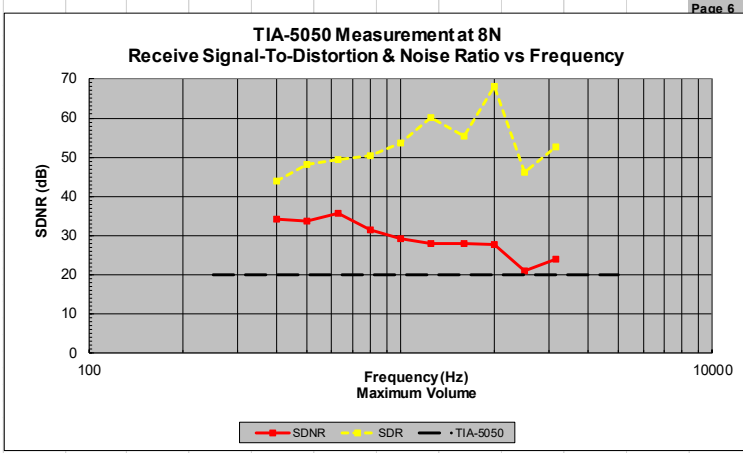
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.13 dB	info only		
	Recv conversational gain 8N	25.13 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.81 dB	info only		
	Recv conversational gain 2N	18.81 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.13 dB	Absolute Limits	PASS	

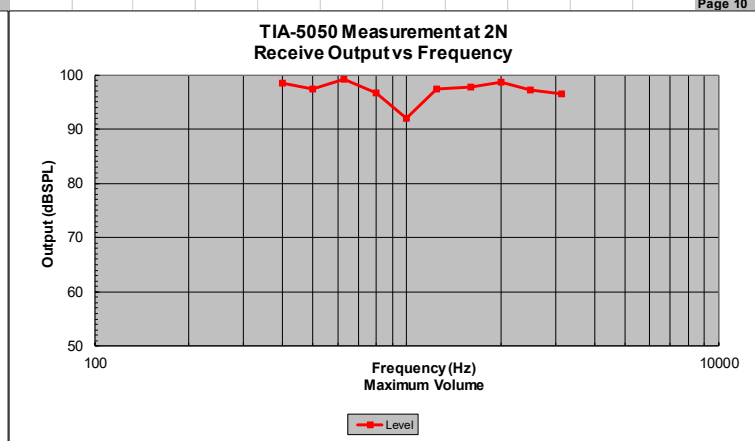
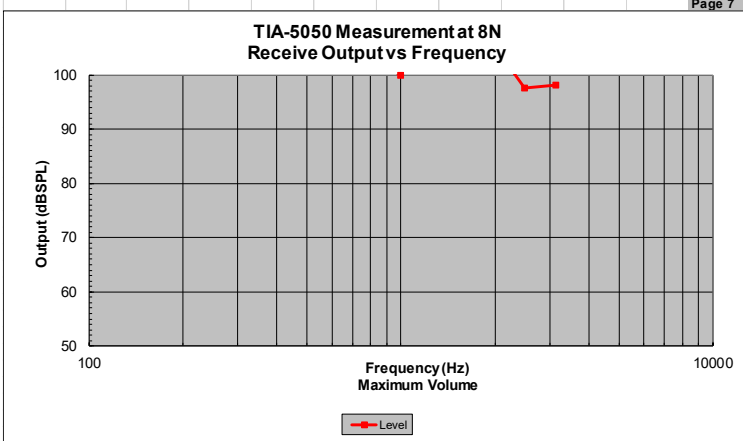
# Wi-Fi 2.4 GHz EVS-NB: 9.6 kbps MCS0 8.6 Mbps

## Distortion Report



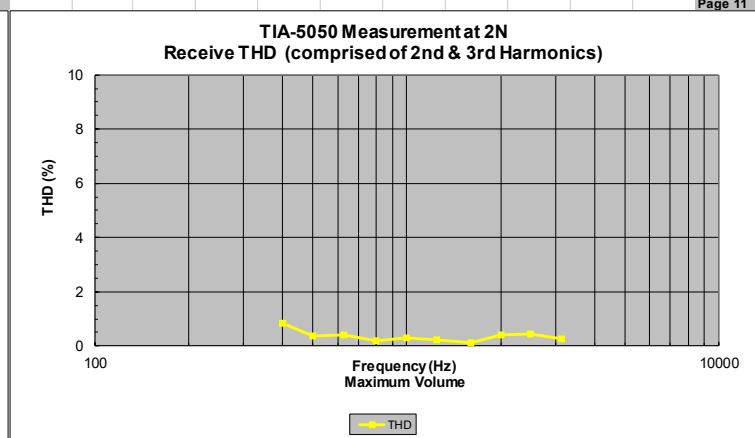
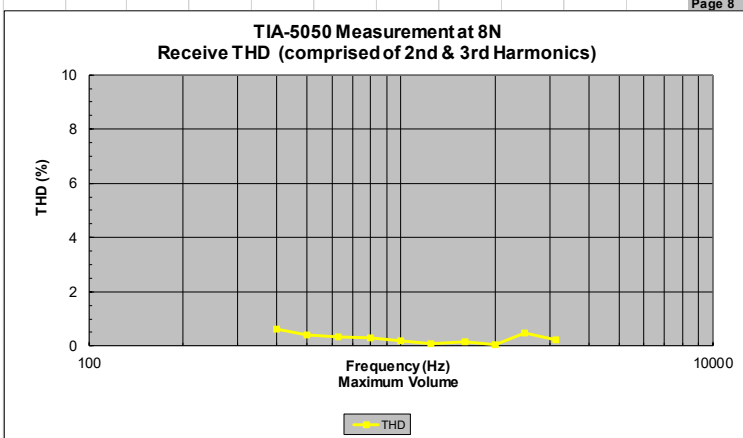
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1 dB	Absolute Limits	PASS	7/9/2025 9:33
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.13 dB	Absolute Limits	PASS	7/9/2025 9:33
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 9:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 9:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 9:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

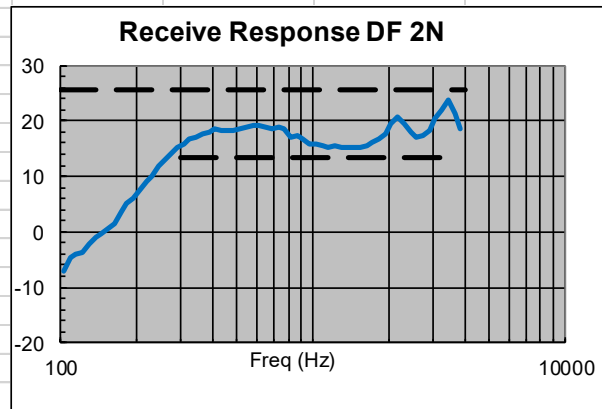
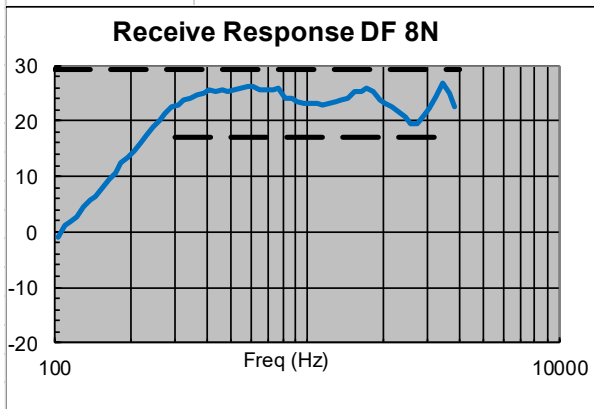
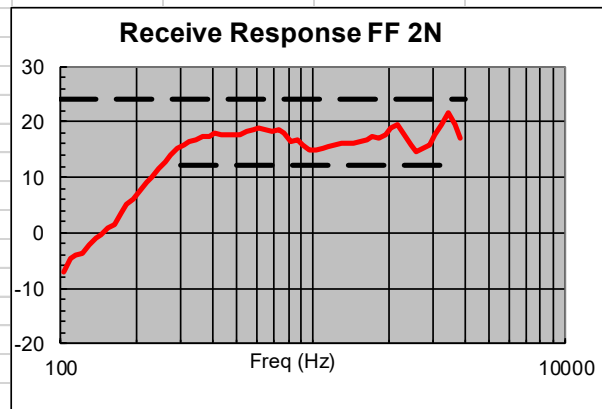
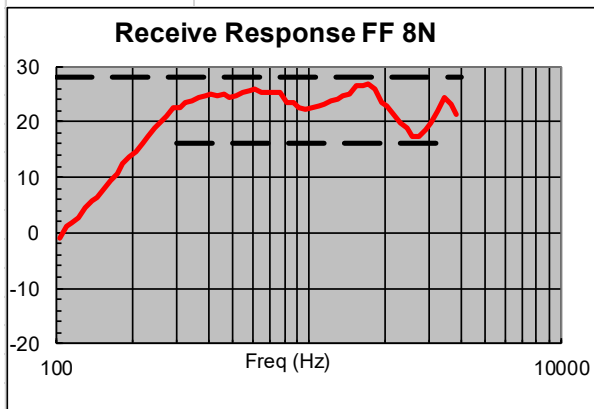
Test Date	
7/9/2025 9:33	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

**Wi-Fi 5 GHz EVS-NB: 9.6 kbps BPSK 6 Mbps  
Conversational Gain & Frequency Response Report  
TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11a BPSK 6 Mbps EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.13 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.31 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.59 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.65 dB	Floating Limits	PASS	



**Output**

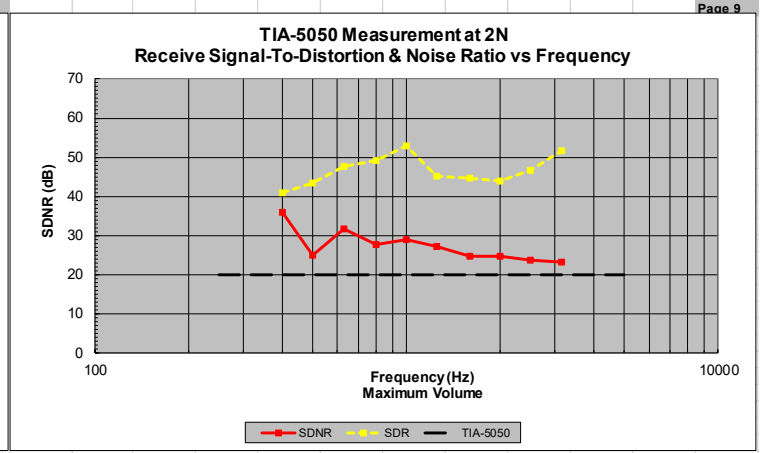
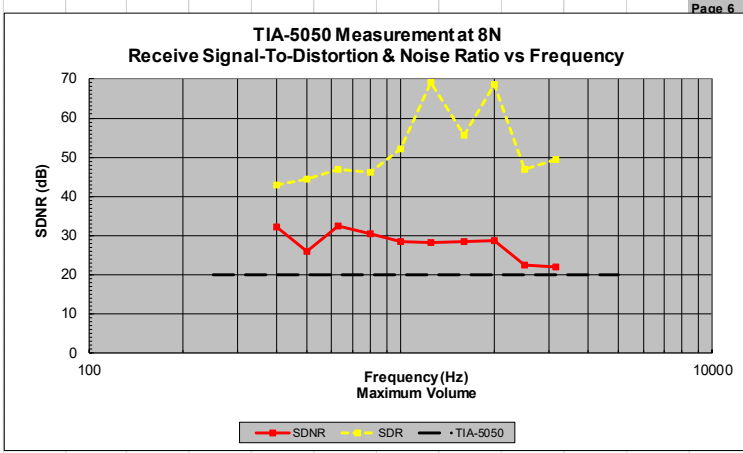
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95.13 dB	info only		
	Recv conversational gain 8N	25.13 dB	18.00	PASS	
	Recv output level dB SPL 2N	88.07 dB	info only		
	Recv conversational gain 2N	18.07 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	3.14 dB	Absolute Limits	PASS	

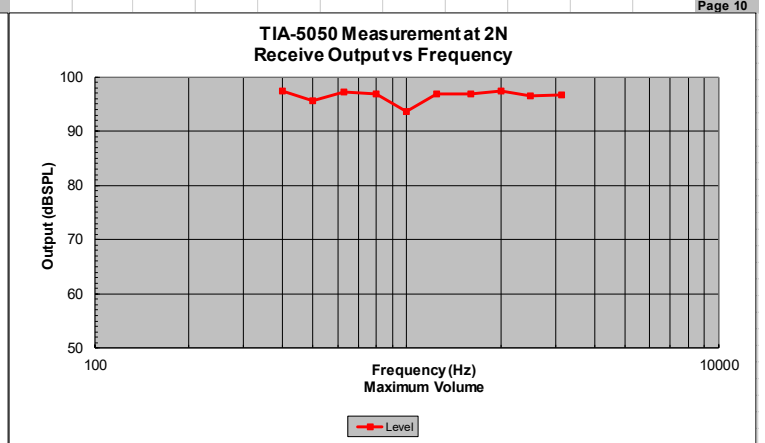
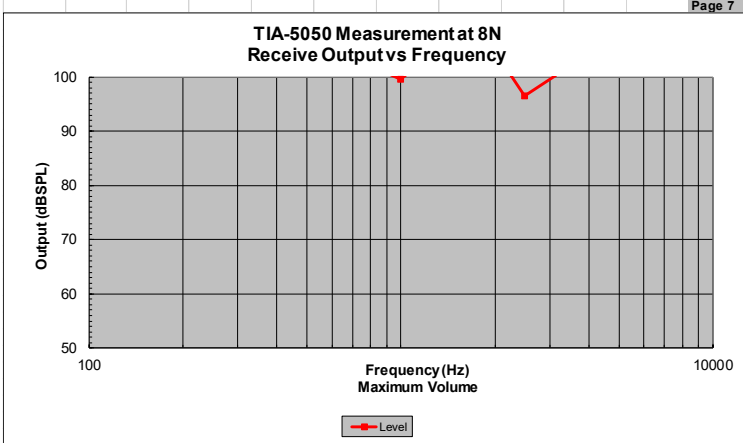
# Wi-Fi 5 GHz EVS-NB: 9.6 kbps BPSK 6 Mbps

## Distortion Report



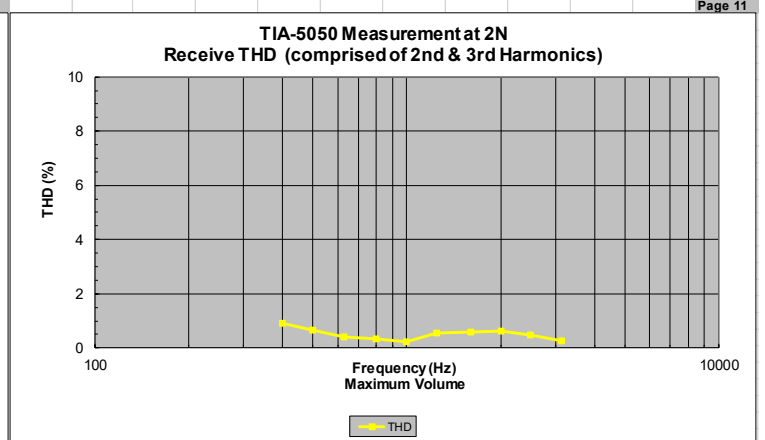
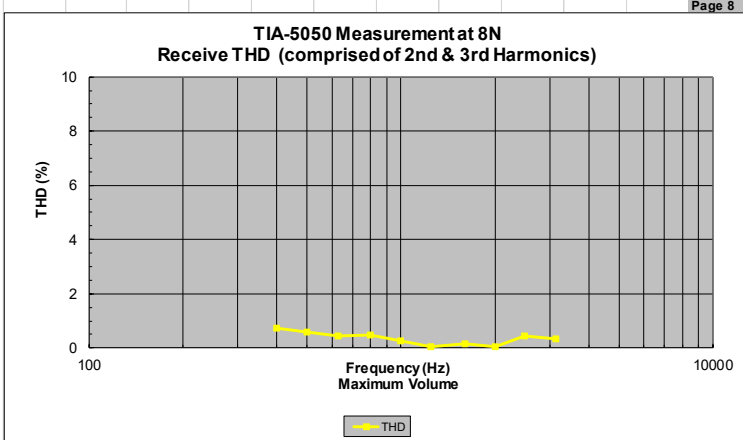
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2 dB	Absolute Limits	PASS	7/9/2025 11:18
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	3.14 dB	Absolute Limits	PASS	7/9/2025 11:18
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.		Stimulus level	-20 dBPa	
		Sentence conditioning	-20 dBPa	
		Short conditioning	-99 dBPa	
Comments:	9.6 kbps			



Test Date		
7/9/2025 11:18		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 11:18		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	



Test Date		
7/9/2025 11:18		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

Test Date		
7/9/2025 11:18		
Stimulus level	-20 dBPa	
Sentence conditioning	-20 dBPa	
Short conditioning	-99 dBPa	
Comments:	9.6 kbps	

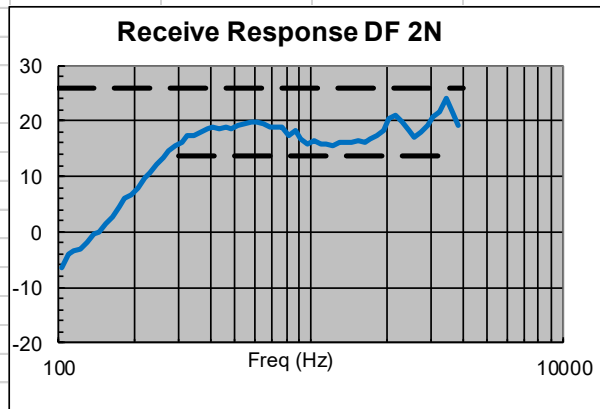
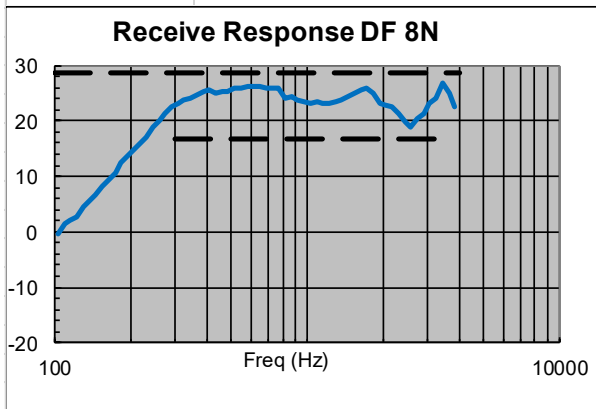
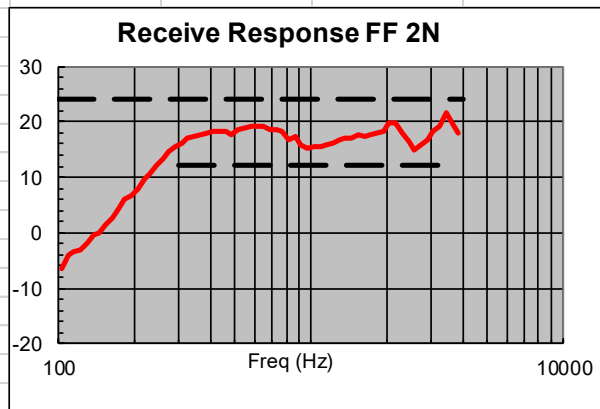
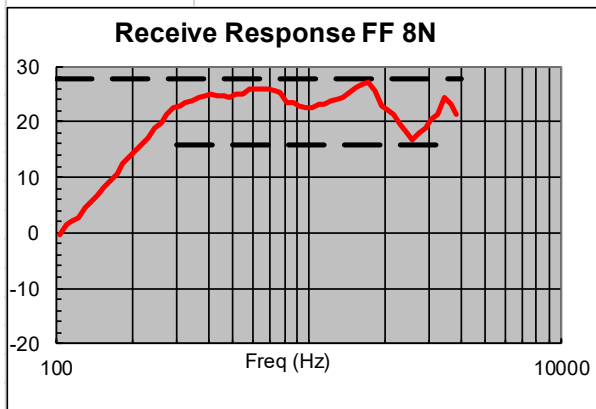
**Wi-Fi 5 GHz EVS-NB: 9.6 kbps MCS0 13.5 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11n40 MCS0 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.81 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.1 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.57 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.78 dB	Floating Limits	PASS	



**Output**

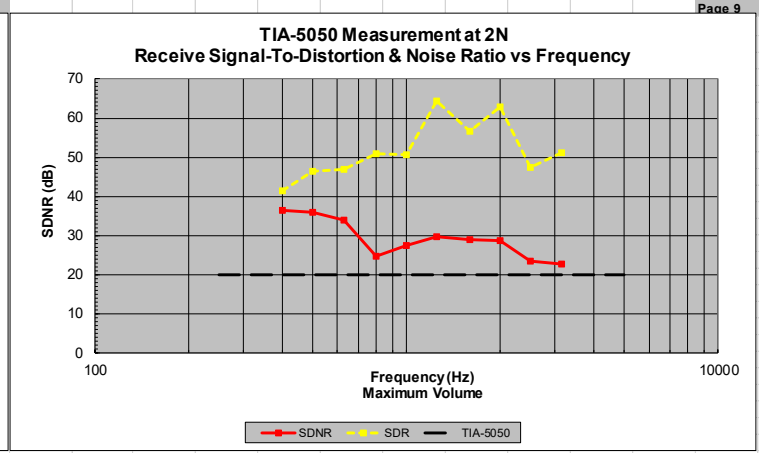
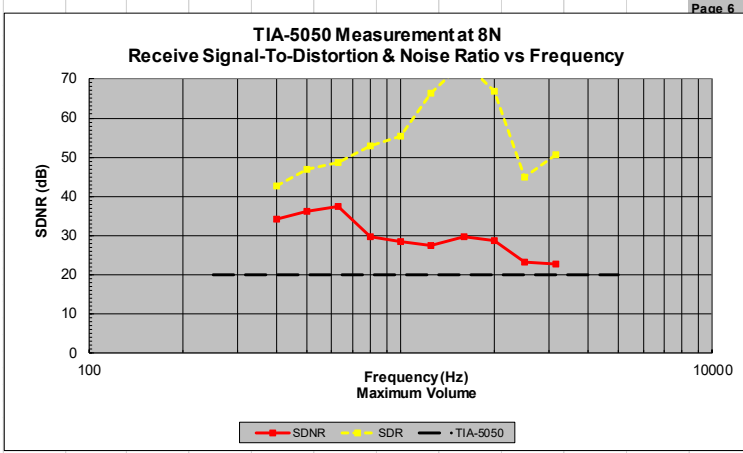
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	95.23 dB	info only		
	Recv conversational gain 8N	25.23 dB	18.00	PASS	
	Recv output level dBSPL 2N	88.56 dB	info only		
	Recv conversational gain 2N	18.56 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.7 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	2.73 dB	Absolute Limits	PASS	

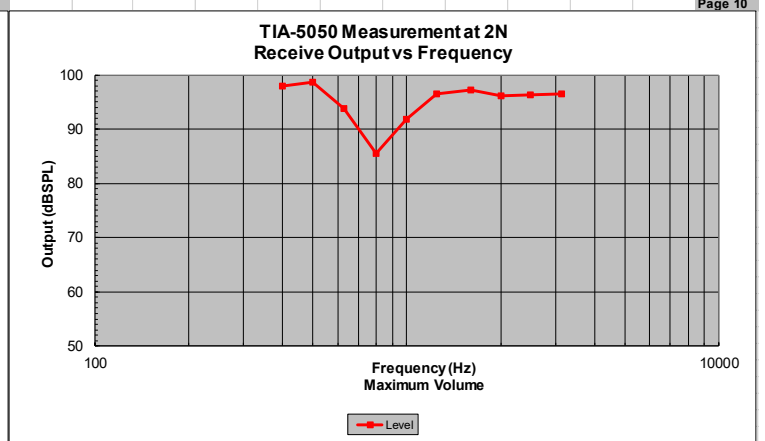
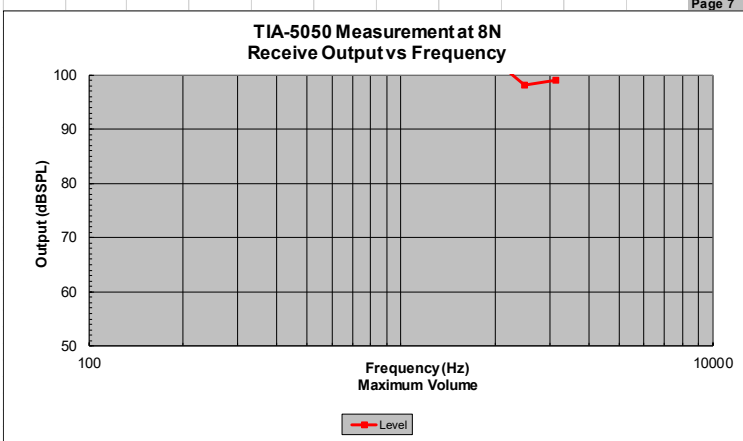
# Wi-Fi 5 GHz EVS-NB: 9.6 kbps MCS0 13.5 Mbps

## Distortion Report



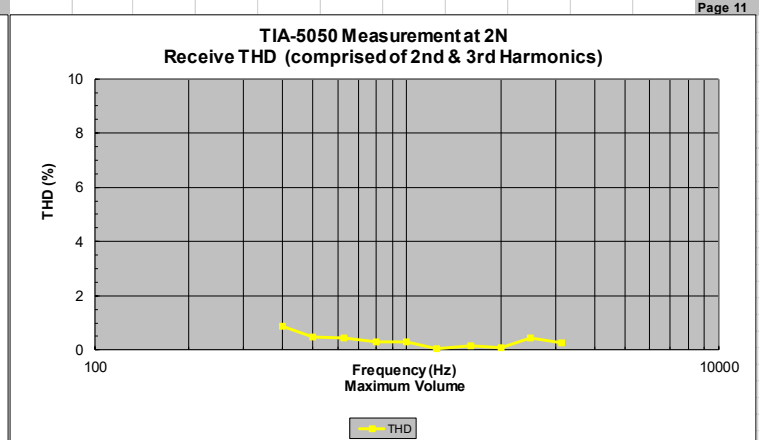
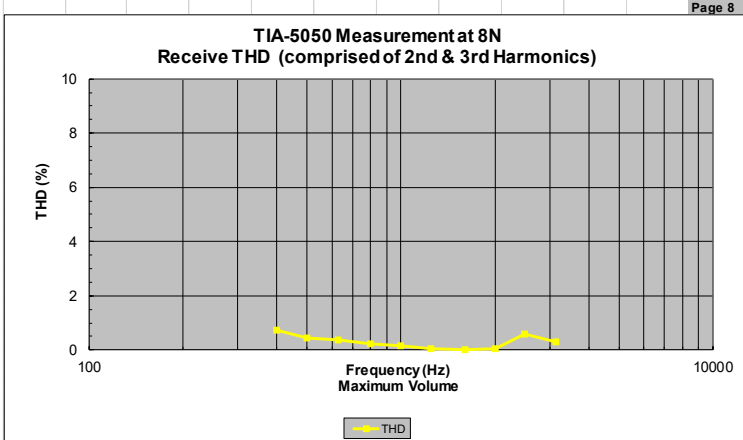
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.7 dB	Absolute Limits	PASS	7/9/2025 11:32
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	2.73 dB	Absolute Limits	PASS	7/9/2025 11:32
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
7/9/2025 11:32
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 11:32
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
7/9/2025 11:32
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 11:32
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

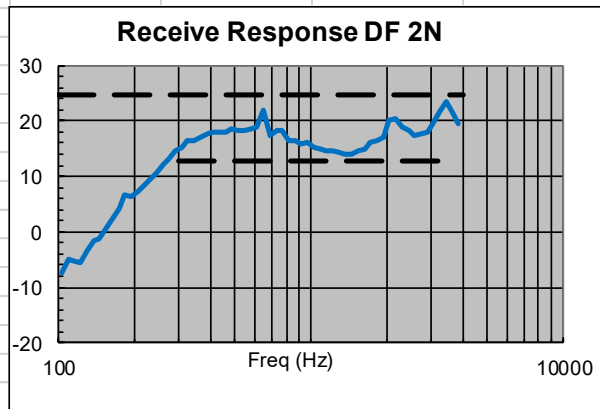
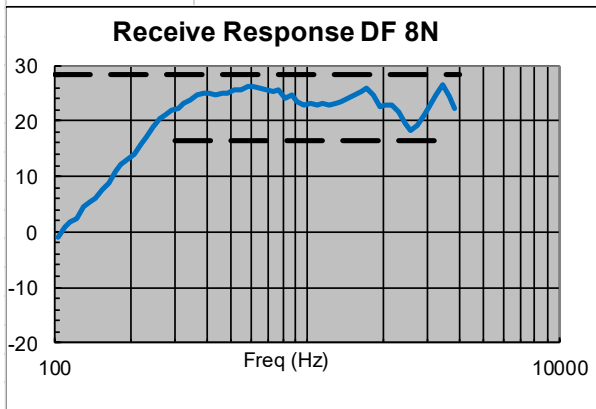
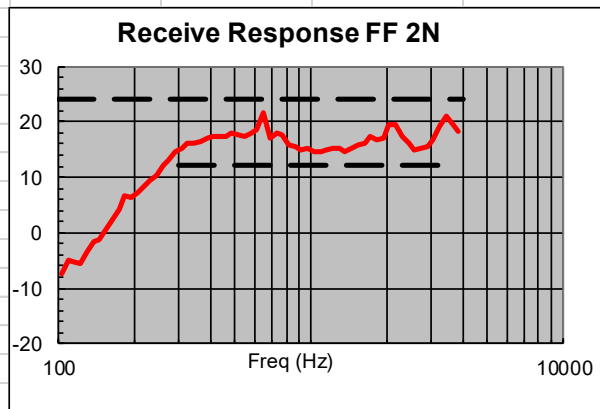
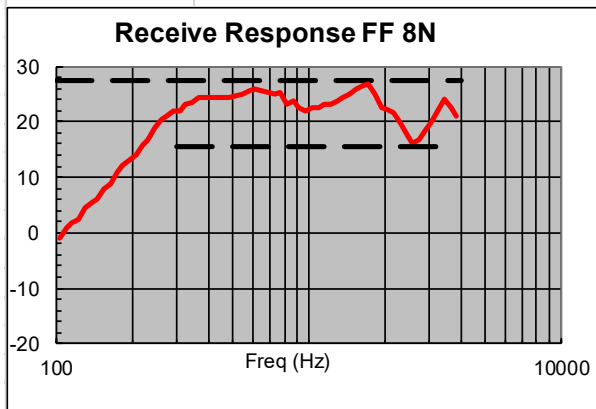
**Wi-Fi 5 GHz EVS-NB: 9.6 kbps MCS0 29.3 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ac80 MCS0 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.61 dB	Floating Limits	PASS	
	Recv resp DF 8N	1.87 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.5 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.2 dB	Floating Limits	PASS	



**Output**

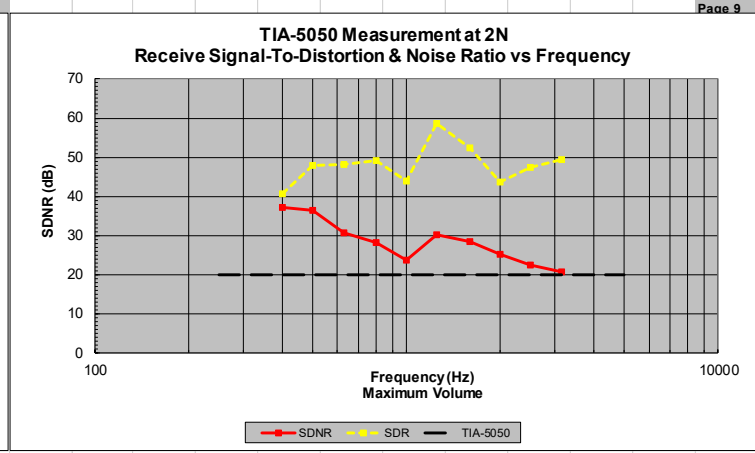
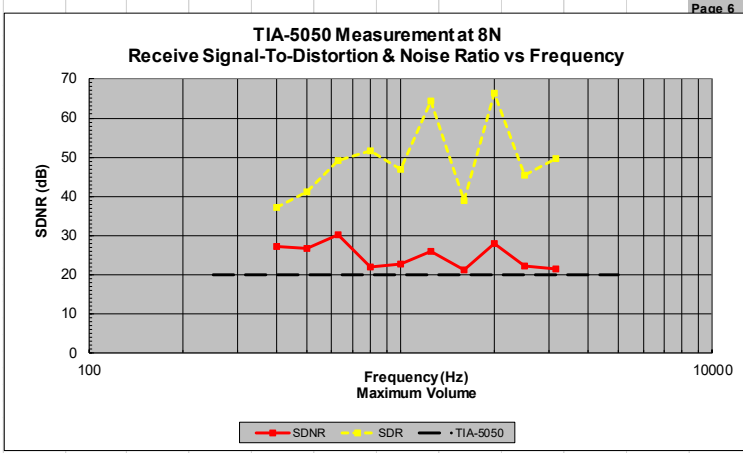
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dBSPL 8N	94.9 dB	info only		
	Recv conversational gain 8N	24.9 dB	18.00	PASS	
	Recv output level dBSPL 2N	87.88 dB	info only		
	Recv conversational gain 2N	17.88 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	0.71 dB	Absolute Limits	PASS	

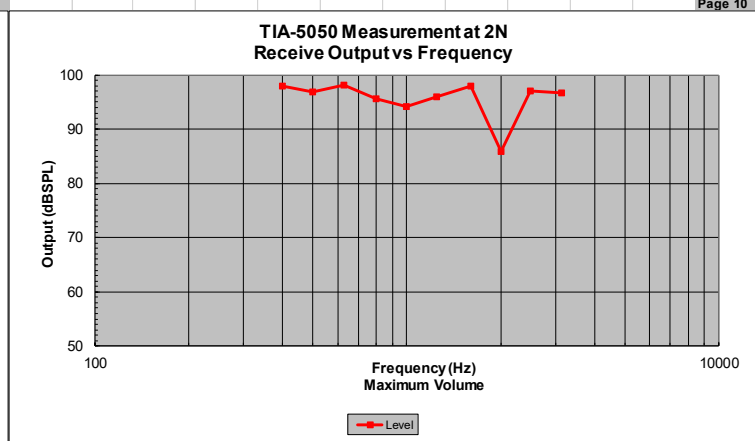
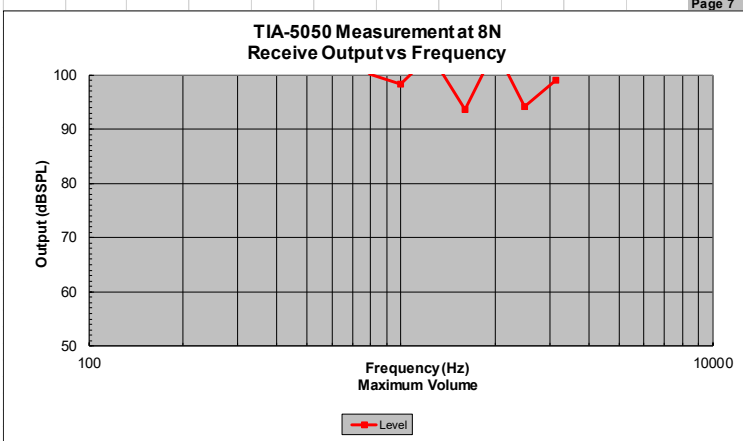
# Wi-Fi 5 GHz EVS-NB: 9.6 kbps MCS0 29.3 Mbps

## Distortion Report



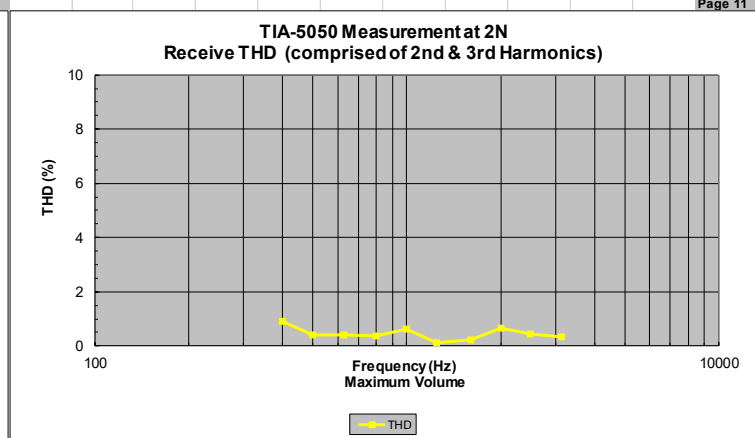
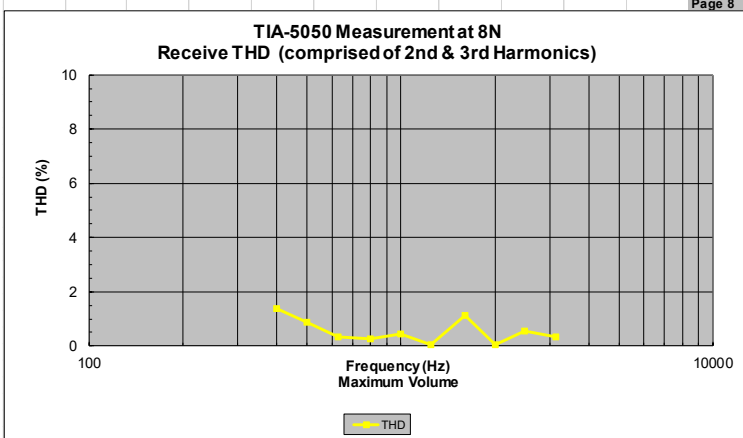
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.2 dB	Absolute Limits	PASS	7/9/2025 11:52
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	0.71 dB	Absolute Limits	PASS	7/9/2025 11:52
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 11:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 11:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 11:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 11:52	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



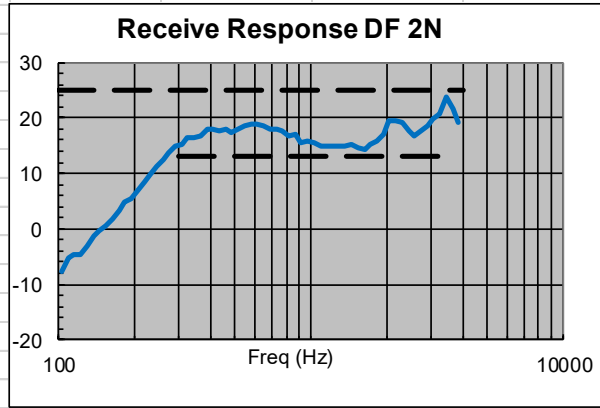
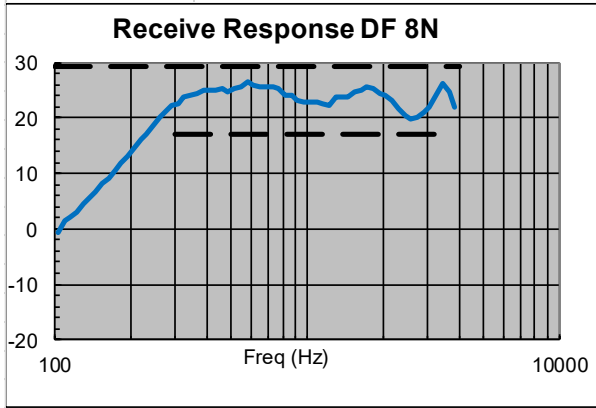
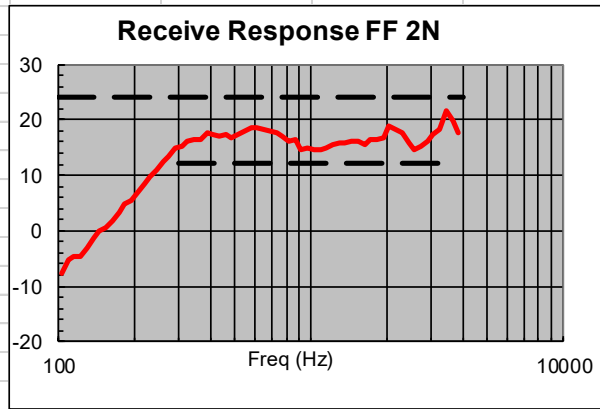
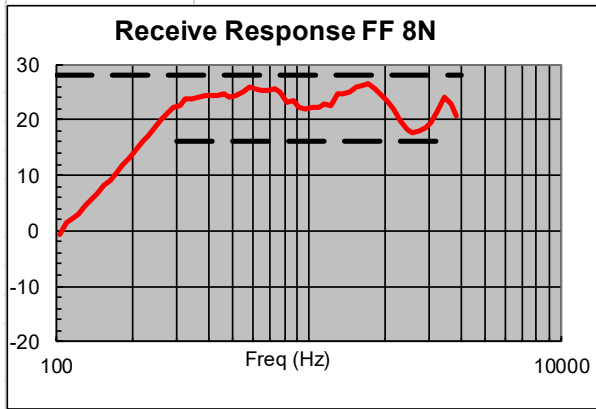
**Wi-Fi 5 GHz EVS-NB: 9.6 kbps MCS0 72 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ax160 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.61 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.72 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.53 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.27 dB	Floating Limits	PASS	



**Output**

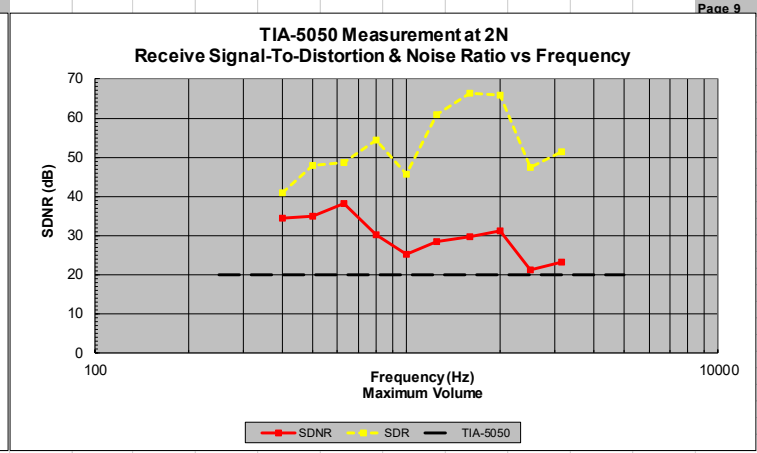
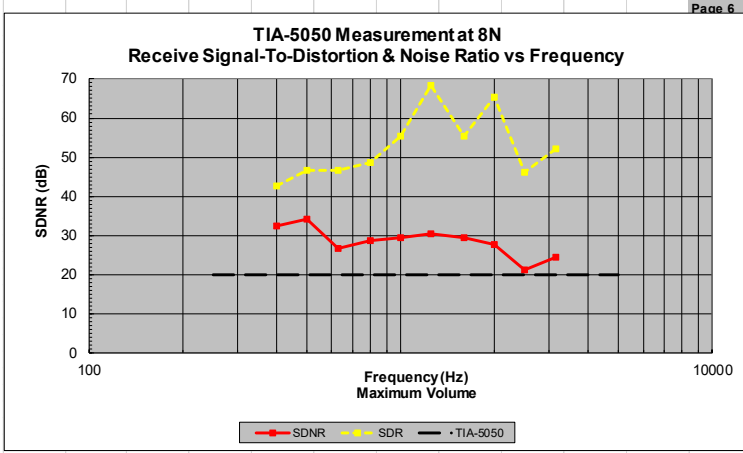
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.94 dB	info only		
	Recv conversational gain 8N	24.94 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.63 dB	info only		
	Recv conversational gain 2N	17.63 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	1.2 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.3 dB	Absolute Limits	PASS	

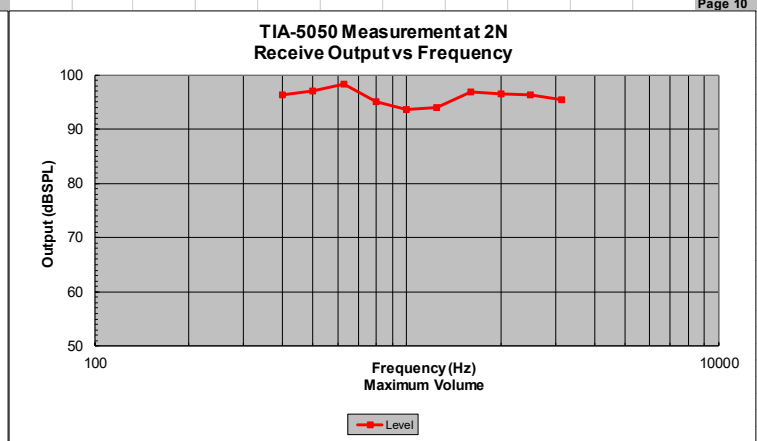
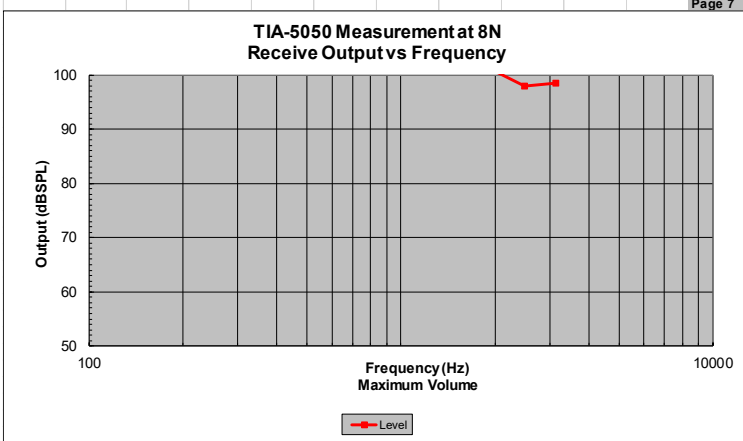
# Wi-Fi 5 GHz EVS-NB: 9.6 kbps MCS0 72 Mbps

## Distortion Report



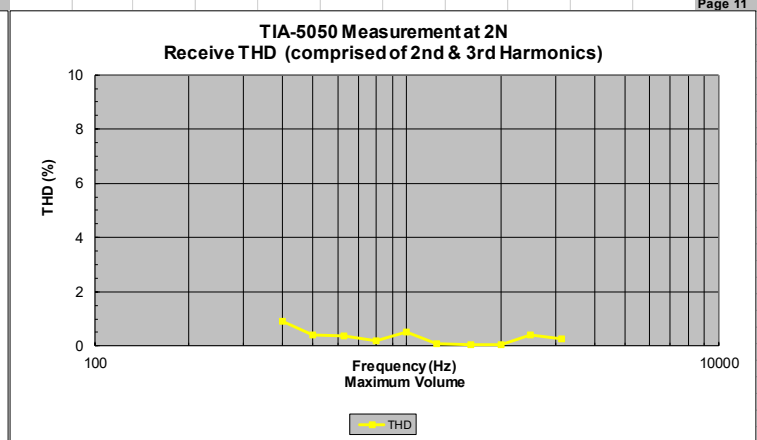
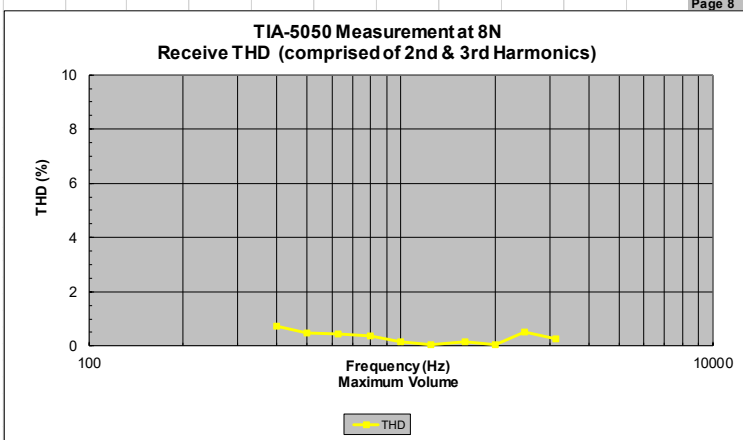
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	1.2 dB	Absolute Limits	PASS	7/9/2025 13:43
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.3 dB	Absolute Limits	PASS	7/9/2025 13:43
Note: SDNR includes noise and distortion products.				Stimulus level
SDR includes only 2nd and 3rd harmonic distortion.				Sentence conditioning
				Short conditioning
				-20 dBPa
				-20 dBPa
				-99 dBPa
Comments:	9.6 kbps			



Test Date
7/9/2025 13:43
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 13:43
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps



Test Date
7/9/2025 13:43
Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

Test Date
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Stimulus level
Sentence conditioning
Short conditioning
-20 dBPa
-20 dBPa
-99 dBPa
Comments:
9.6 kbps

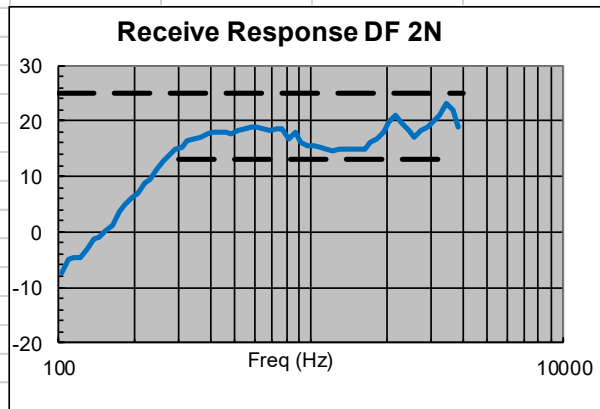
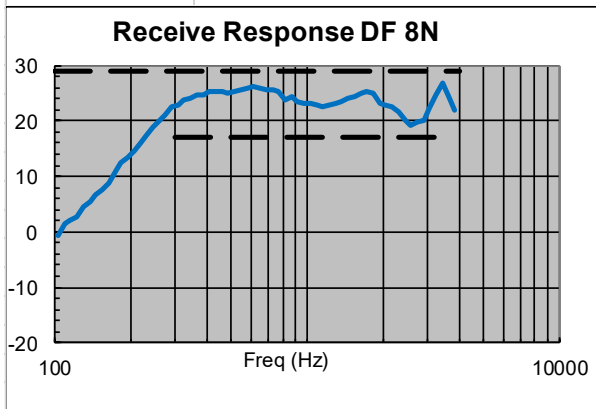
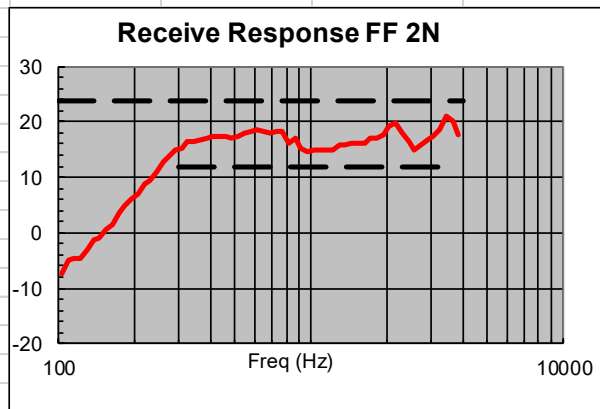
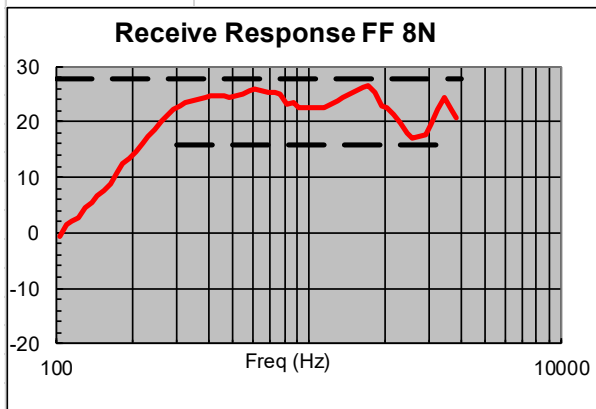
**Wi-Fi 6 GHz EVS-NB: 9.6 kbps MCS0 8.6 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11ax 6E MCS0 EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	1.32 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.3 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.82 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.62 dB	Floating Limits	PASS	



**Output**

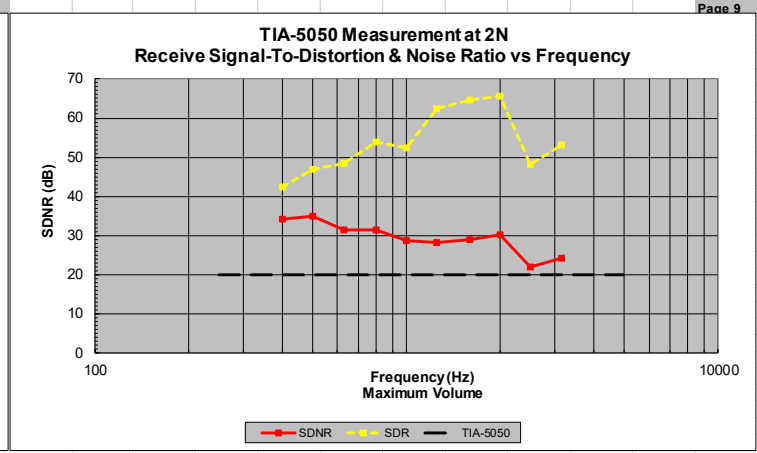
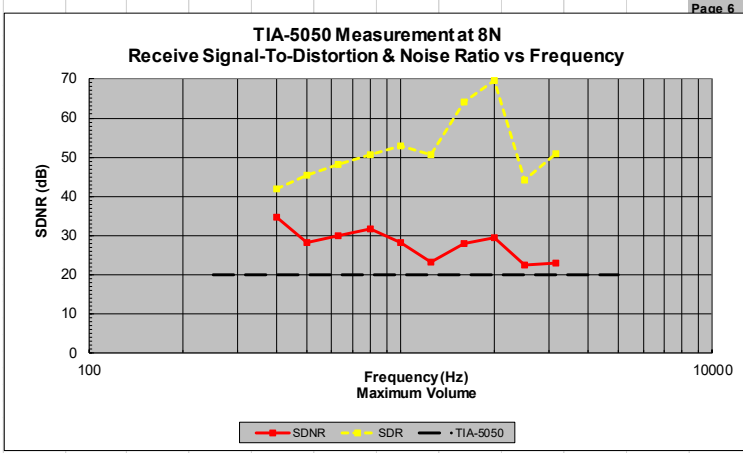
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	95 dB	info only		
	Recv conversational gain 8N	25 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.77 dB	info only		
	Recv conversational gain 2N	17.77 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	2.6 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.95 dB	Absolute Limits	PASS	

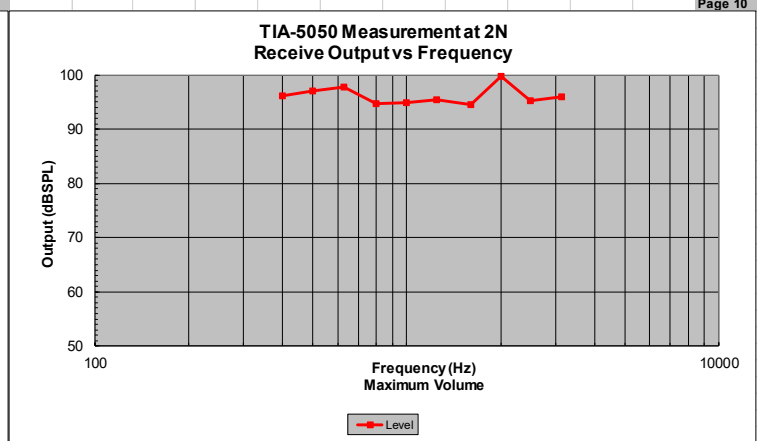
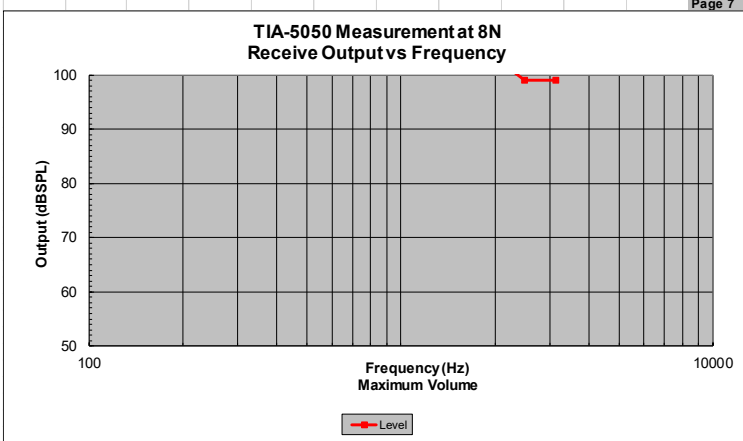
# Wi-Fi 6 GHz EVS-NB: 9.6 kbps MCS0 8.6 Mbps

## Distortion Report



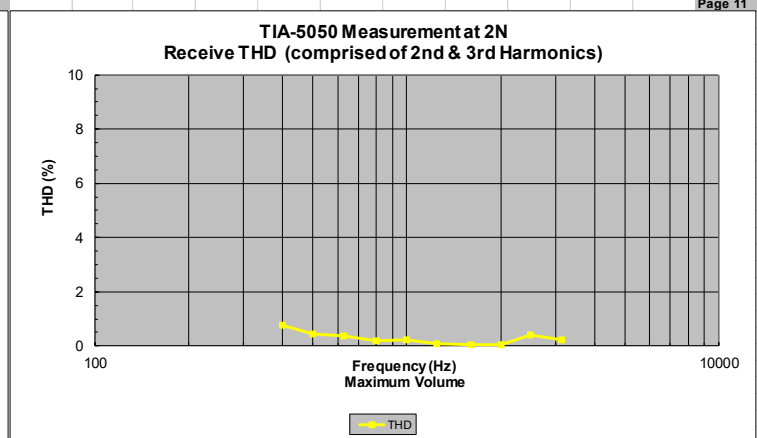
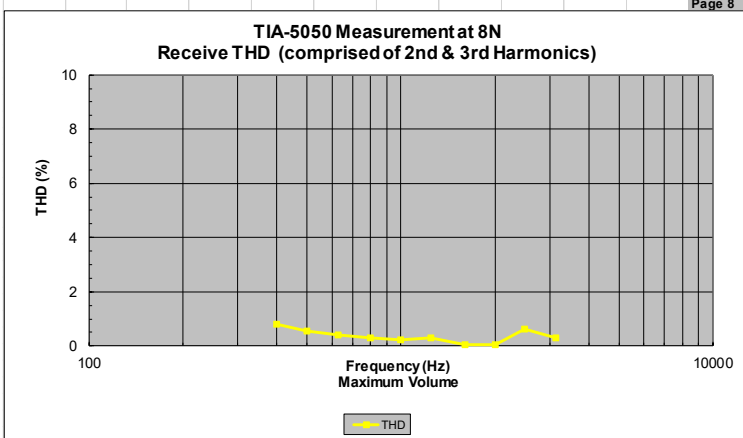
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	2.6 dB	Absolute Limits	PASS	7/9/2025 9:54
Note: SDNR includes noise and distortion products.		Stimulus level -20 dBPa		
SDR includes only 2nd and 3rd harmonic distortion.		Sentence conditioning -20 dBPa		
		Short conditioning -99 dBPa		
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.95 dB	Absolute Limits	PASS	7/9/2025 9:54
Note: SDNR includes noise and distortion products.		Stimulus level -20 dBPa		
SDR includes only 2nd and 3rd harmonic distortion.		Sentence conditioning -20 dBPa		
		Short conditioning -99 dBPa		
Comments:	9.6 kbps			



Test Date
7/9/2025 9:54
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 9:54
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
9.6 kbps



Test Date
7/9/2025 9:54
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
9.6 kbps

Test Date
7/9/2025 9:54
Stimulus level -20 dBPa
Sentence conditioning -20 dBPa
Short conditioning -99 dBPa
Comments:
9.6 kbps

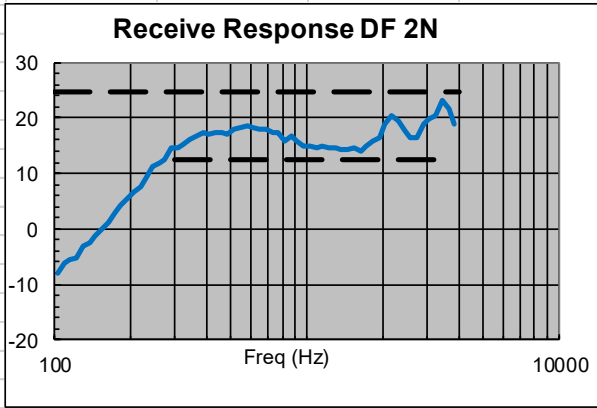
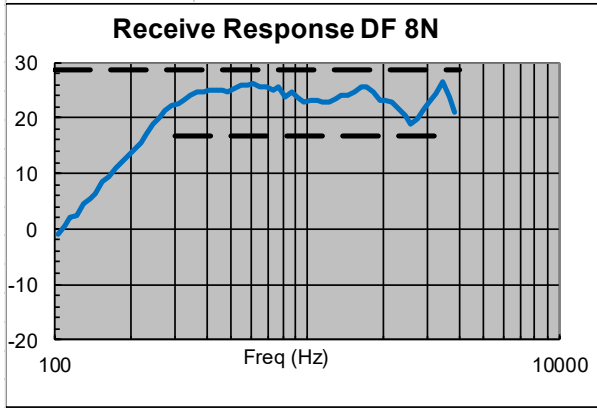
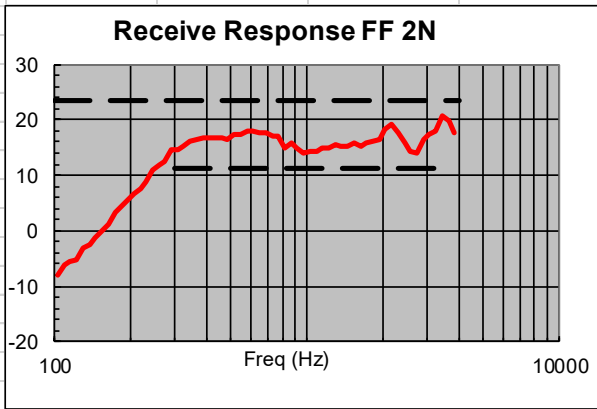
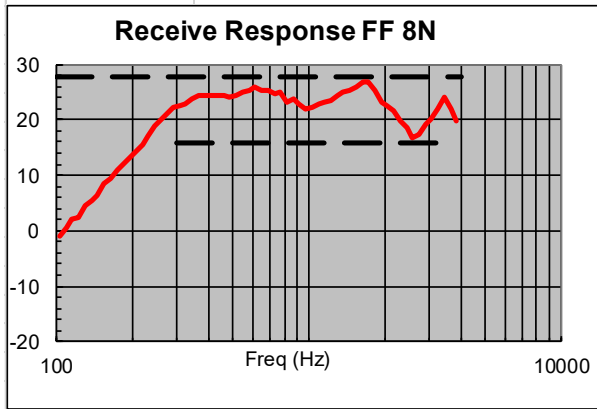
**Wi-Fi 6 GHz EVS-NB: 9.6 kbps MCS0 8.6 Mbps  
Conversational Gain & Frequency Response Report**

**TIA-5050 Receive Volume Control Measurements**

<b>Device Under Test:</b>	802.11be 6E EVS-NB
<b>Bandwidth</b>	Narrowband
<b>Test Date:</b>	7/9/2025

**Frequency Response**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.3	Recv resp FF 8N	0.84 dB	Floating Limits	PASS	
	Recv resp DF 8N	2.23 dB	Floating Limits	PASS	
	Recv resp FF 2N	2.6 dB	Floating Limits	PASS	
	Recv resp DF 2N	1.52 dB	Floating Limits	PASS	



**Output**

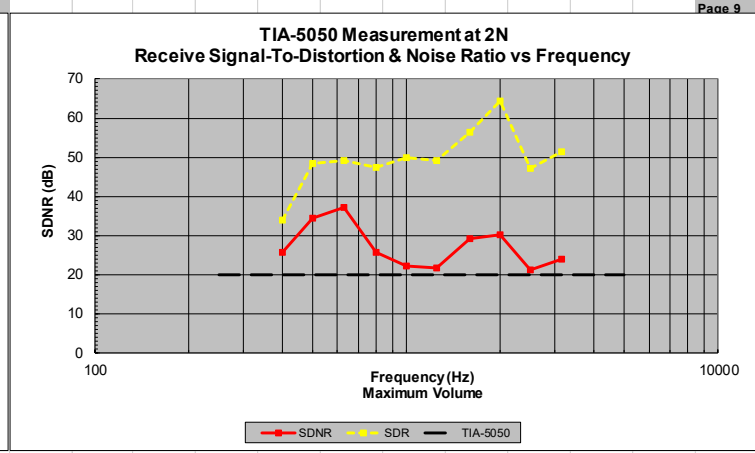
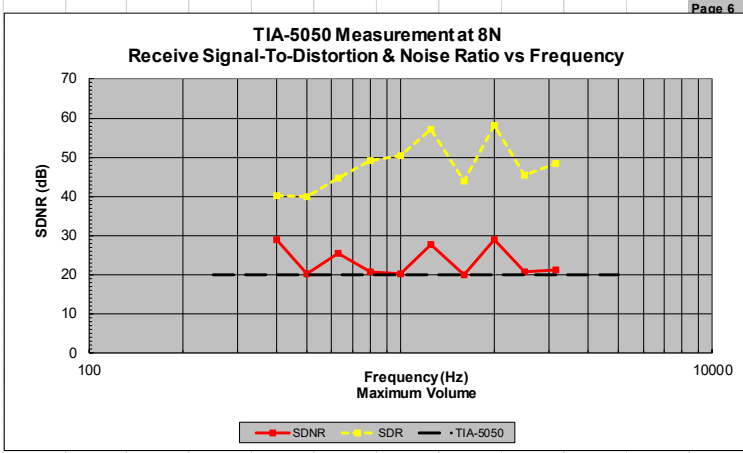
TIA-5050	Test	Measured	Limits	Result	Reference
Clause 5.1	Recv output level dB SPL 8N	94.92 dB	info only		
	Recv conversational gain 8N	24.92 dB	18.00	PASS	
	Recv output level dB SPL 2N	87.2 dB	info only		
	Recv conversational gain 2N	17.2 dB	6.00	PASS	

**Distortion**

TIA-5050	Test	Margin	Limits	Result	Reference
Clause 5.2	Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	
	Recv PN-SDNR 2N	1.2 dB	Absolute Limits	PASS	

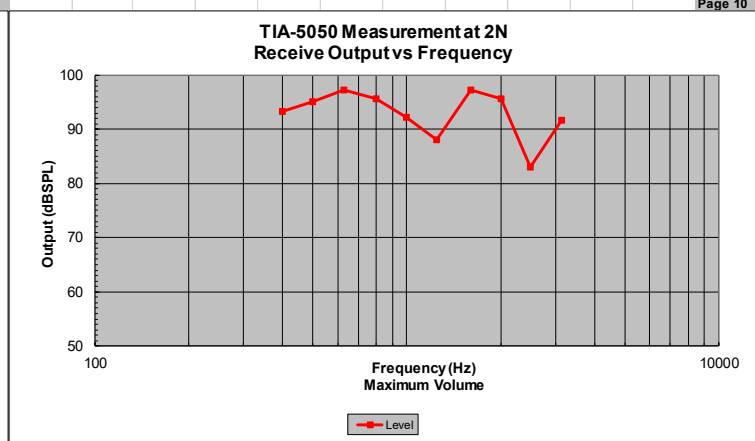
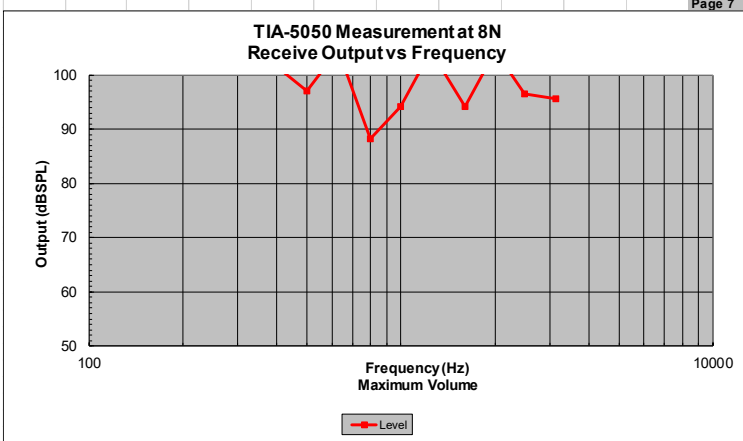
# Wi-Fi 6 GHz EVS-NB: 9.6 kbps MCS0 8.6 Mbps

## Distortion Report



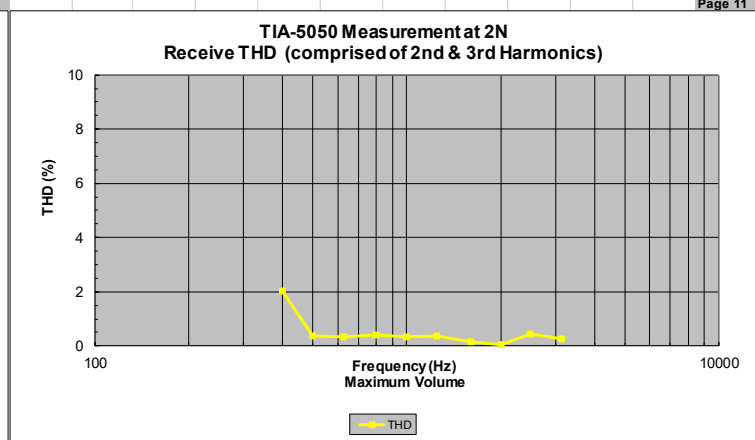
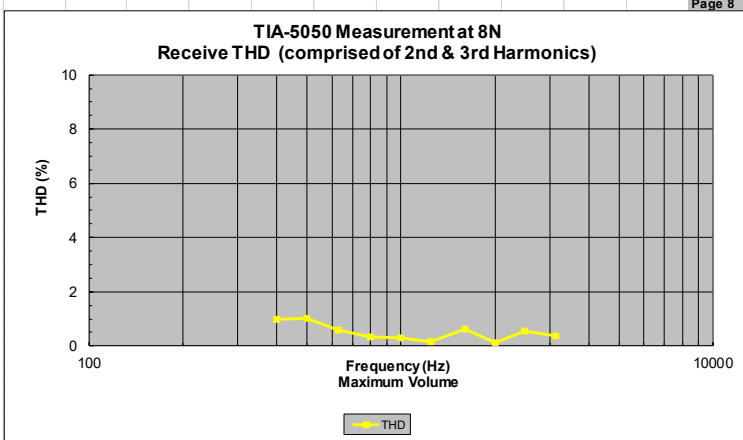
Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 8N	0.1 dB	Absolute Limits	PASS	7/9/2025 13:23
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			

Test	Margin	Limits	Result	Test Date
Recv PN-SDNR 2N	1.2 dB	Absolute Limits	PASS	7/9/2025 13:23
Note: SDNR includes noise and distortion products. SDR includes only 2nd and 3rd harmonic distortion.				
Stimulus level				-20 dBPa
Sentence conditioning				-20 dBPa
Short conditioning				-99 dBPa
Comments:	9.6 kbps			



Test Date	
7/9/2025 13:23	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 13:23	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps



Test Date	
7/9/2025 13:23	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps

Test Date	
7/9/2025 13:23	
Stimulus level	-20 dBPa
Sentence conditioning	-20 dBPa
Short conditioning	-99 dBPa
Comments:	9.6 kbps